

Data Path : Z:\HPCHEM1\BNA F\DATA\BF030817\
 Data File : BF093453.D
 Acq On : 9 Mar 2017 2:34
 Operator : SJ/MA
 Sample : I2126-03
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E2-Z7-BASE

Manual Integrations
 APPROVED

mohammad
 3/10/2017 8:12:36 AM

Quant Time: Mar 09 04:57:51 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF030717.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Mar 07 15:55:22 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.77	152	153755	20.00	ng	0.00
21) Naphthalene-d8	8.06	136	575369	20.00	ng	0.00
38) Acenaphthene-d10	9.81	164	251175	20.00	ng	0.00
63) Phenanthrene-d10	11.29	188	371598	20.00	ng	0.01
75) Chrysene-d12	13.93	240	329841	20.00	ng	0.01
86) Perylene-d12	15.35	264	255015	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.36	112	980404	106.12	ng	0.01
7) Phenol-d6	6.42	99	1315593	112.93	ng	0.01
23) Nitrobenzene-d5	7.34	82	666441	64.27	ng	0.00
41) 2,4,6-Tribromophenol	10.61	330	191970	117.31	ng	0.01
44) 2-Fluorobiphenyl	9.13	172	1016561	75.28	ng	0.00
78) Terphenyl-d14	12.88	244	591683	46.64	ng	0.01
Target Compounds						
10) Phenol	6.44	94	95687	6.70	ng	# 73
17) 2-Methylphenol	7.05	107	96905	11.07	ng	# 90
20) 3+4-Methylphenols	7.20	107	258060	22.73	ng	# 67
27) 2,4-Dimethylphenol	7.73	122	169958	19.65	ng	98
29) 2,4-Dichlorophenol	7.94	162	22738	2.79	ng	91
31) Naphthalene	8.08	128	731879	25.38	ng	96
37) 2-Methylnaphthalene	8.77	142	284337	15.50	ng	98
45) 1,1'-Biphenyl	9.24	154	53757	2.94	ng	99
49) Dimethylphthalate	9.53	163	313988	18.86	ng	100
51) Acenaphthene	9.84	154	105823	7.75	ng	94
54) Dibenzofuran	10.01	168	208743	12.21	ng	# 92
57) Fluorene	10.36	166	158679m	10.95	ng	
70) Phenanthrene	11.32	178	247715	11.68	ng	98
72) Carbazole	11.53	167	145166	7.20	ng	99
74) Fluoranthene	12.50	202	123851	6.04	ng	96
77) Pyrene	12.73	202	107790	4.49	ng	99
80) Benzo(a)anthracene	13.92	228	53015	2.72	ng	94
82) Chrysene	13.97	228	47111	2.61	ng	94
87) Benzo(b)fluoranthene	14.96	252	57936m	3.73	ng	
89) Benzo(a)pyrene	15.29	252	35729	2.52	ng	# 72

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

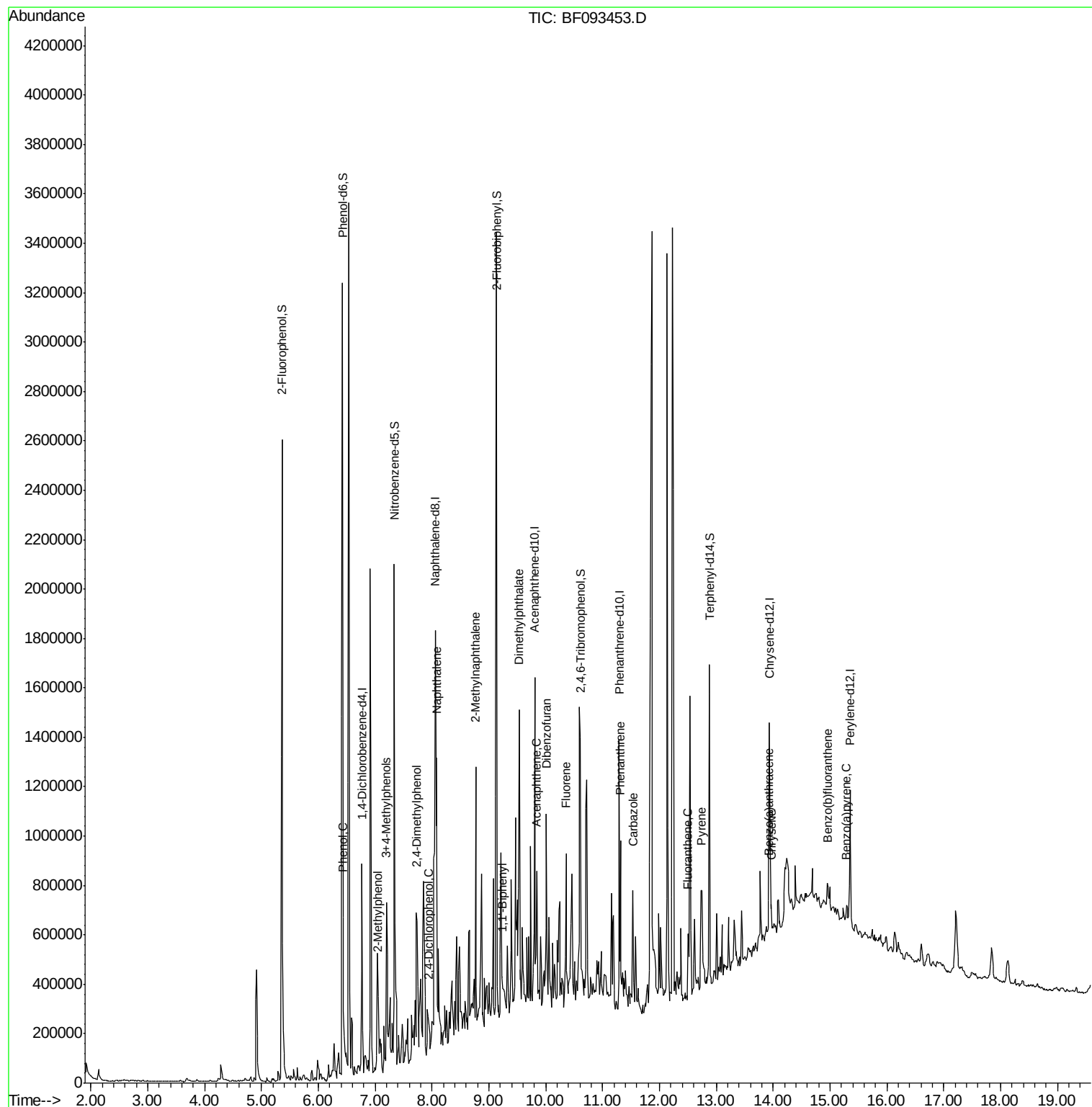
Data Path : Z:\HPCHEM1\BNA F\DATA\BF030817\
Data File : BF093453.D
Acq On : 9 Mar 2017 2:34
Operator : SJ/MA
Sample : I2126-03
Misc :
ALS Vial : 25 Sample Multiplier: 1

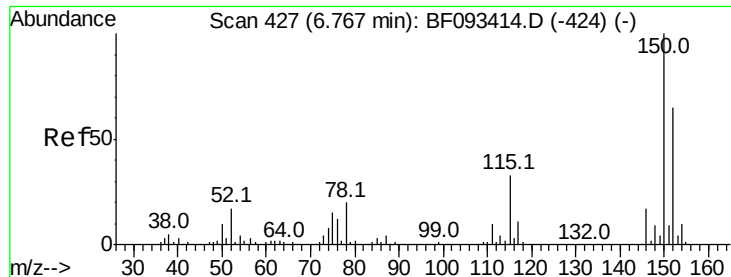
Instrument :
BNA_F
ClientSampleId :
E2-Z7-BASE

Manual Integrations
APPROVED

mohammad
3/10/2017 8:12:36 AM

Quant Time: Mar 09 04:57:51 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF030717.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Mar 07 15:55:22 2017
Response via : Initial Calibration





#1

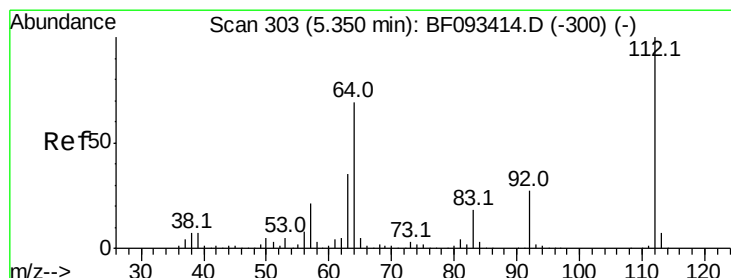
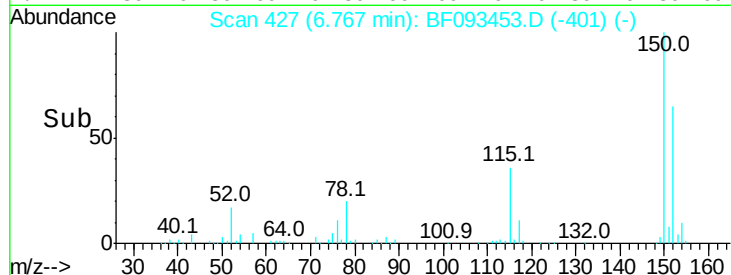
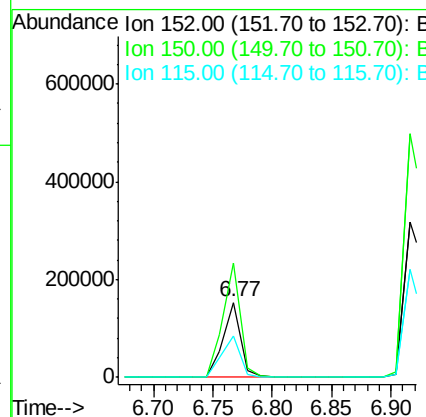
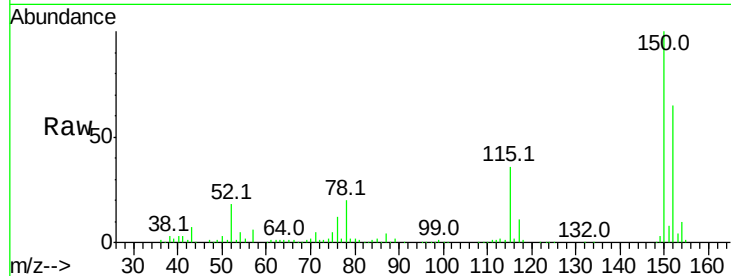
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.77 min Scan# 427
Delta R.T. -0.00 min
Lab File: BF093453.D
Acq: 9 Mar 2017 2:34

Instrument :
BNA_F
ClientSampleId :
E2-Z7-BASE

Tot Ion	Ratio	Lower	Upper
152	100		
150	153.3	124.9	187.3
115	54.6	46.0	69.0

Manual Integrations
APPROVED

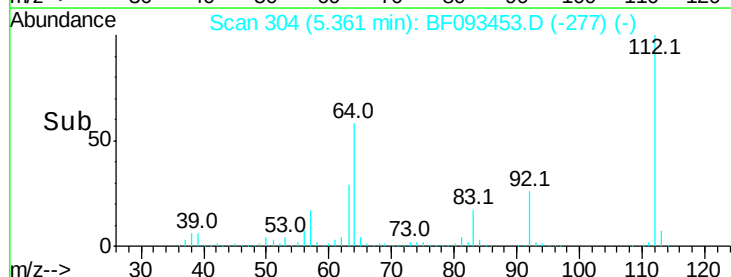
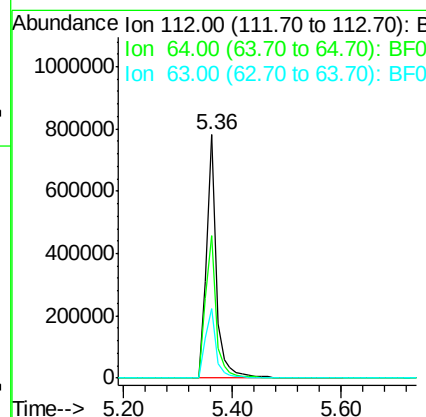
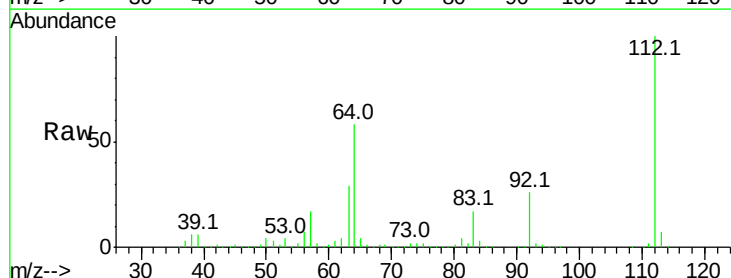
mohammad
3/10/2017 8:12:36 AM

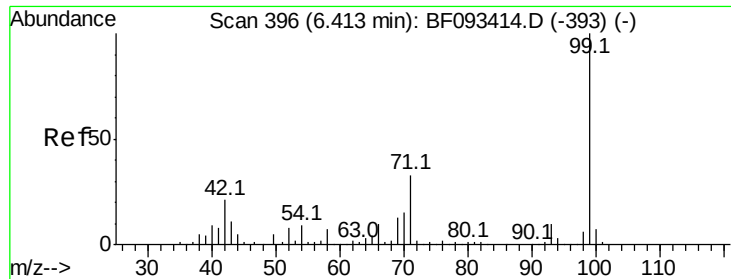


#5

2-Fluorophenol
Concen: 106.12 ng
RT: 5.36 min Scan# 304
Delta R.T. 0.01 min
Lab File: BF093453.D
Acq: 9 Mar 2017 2:34

Tgt Ion	Ratio	Lower	Upper
112	100		
64	58.4	46.1	69.1
63	28.8	23.8	35.6





#7

Phenol-d6

Concen: 112.93 ng

RT: 6.42 min Scan# 397

Delta R.T. 0.01 min

Lab File: BF093453.D

Acq: 9 Mar 2017 2:34

Instrument :

BNA_F

ClientSampleId :

E2-Z7-BASE

Tot Ion: 99 Resp: 1315593

Ion Ratio Lower Upper

99 100

42 18.3 15.6 23.4

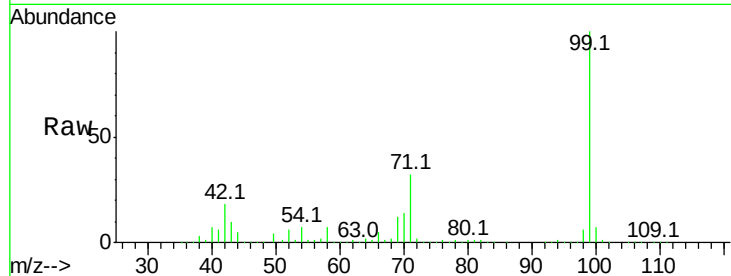
71 31.9 27.5 41.3

Manual Integrations

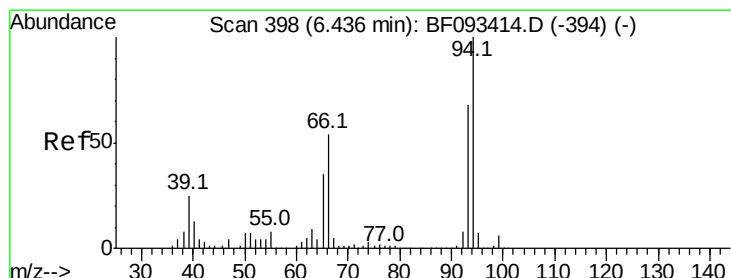
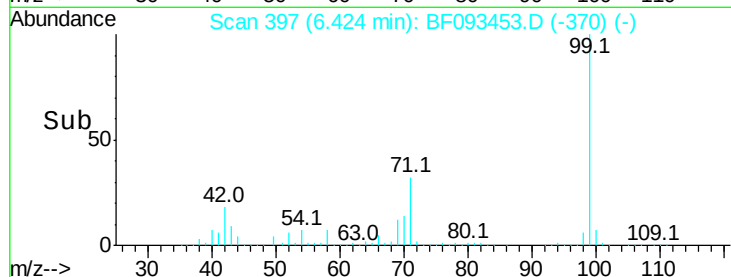
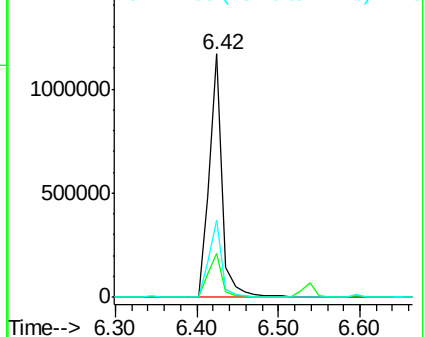
APPROVED

mohammad

3/10/2017 8:12:36 AM



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: 6.70 ng

RT: 6.44 min Scan# 398

Delta R.T. -0.00 min

Lab File: BF093453.D

Acq: 9 Mar 2017 2:34

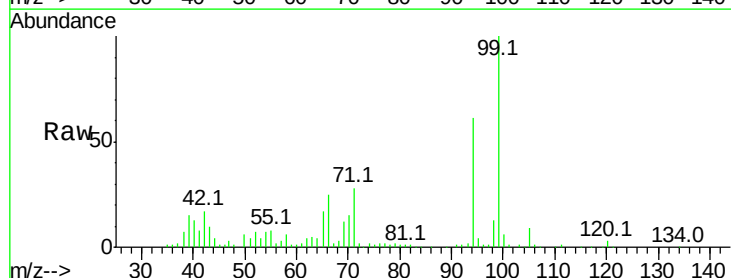
Tgt Ion: 94 Resp: 95687

Ion Ratio Lower Upper

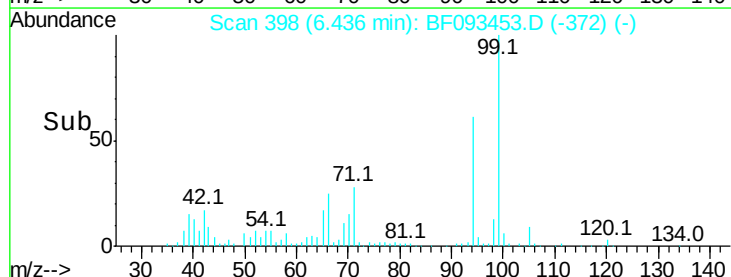
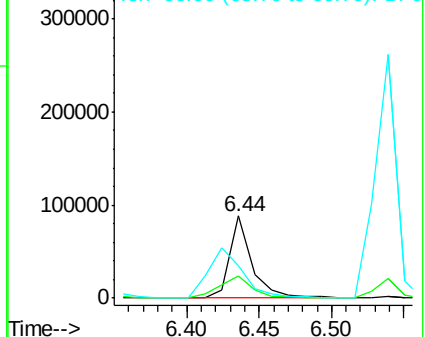
94 100

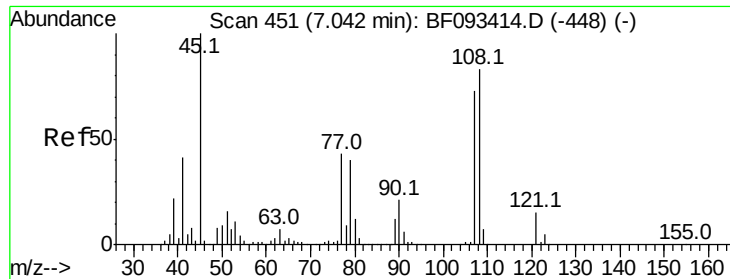
65 27.7 21.4 61.4

66 40.2 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





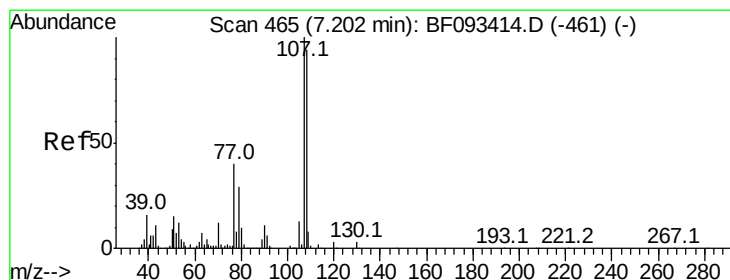
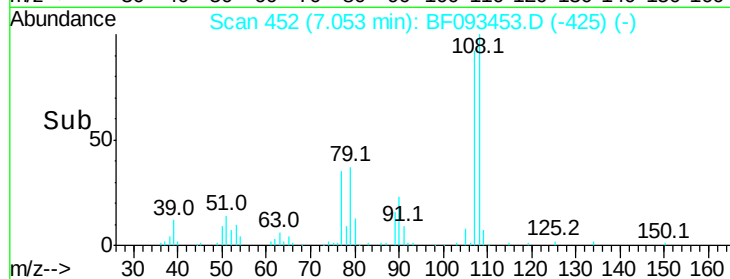
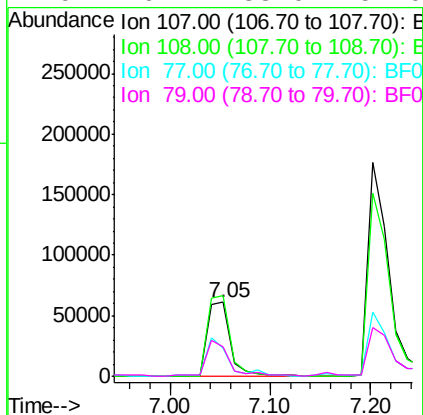
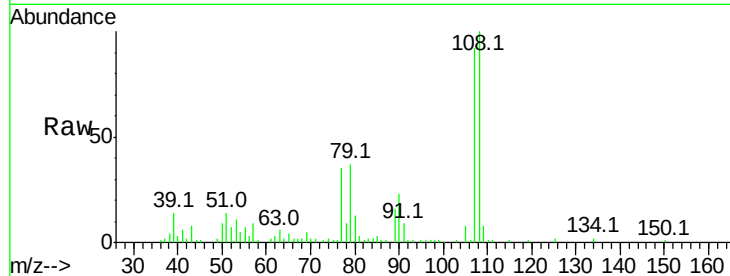
#17
2-Methylphenol
Concen: 11.07 ng
RT: 7.05 min Scan# 452
Delta R.T. 0.01 min
Lab File: BF093453.D
Acq: 9 Mar 2017 2:34

Instrument :
BNA_F
ClientSampled :
E2-Z7-BASE

Tot Ion	Ratio	Resp Lower	Upper
107	100		
108	108.2	93.0	139.6
77	38.3	39.8	59.8#
79	40.1	38.0	57.0

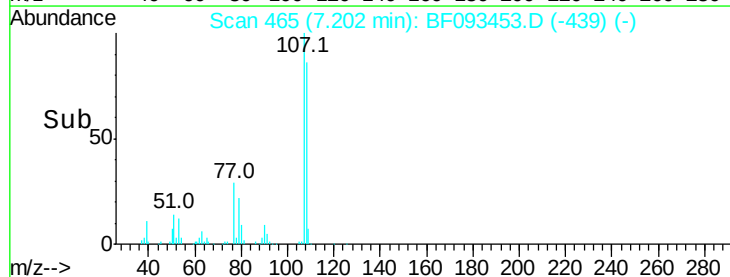
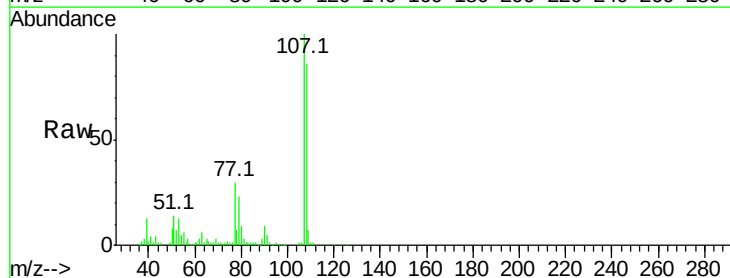
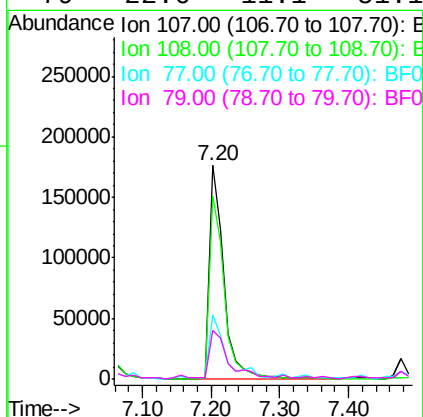
Manual Integrations
APPROVED

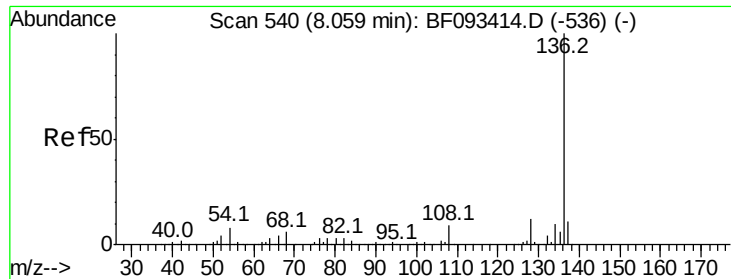
mohammad
3/10/2017 8:12:36 AM



#20
3+4-Methylphenols
Concen: 22.73 ng
RT: 7.20 min Scan# 465
Delta R.T. -0.00 min
Lab File: BF093453.D
Acq: 9 Mar 2017 2:34

Tgt Ion	Ratio	Resp Lower	Upper
107	100		
108	85.6	73.0	113.0
77	30.1	71.3	111.3#
79	22.6	11.1	51.1





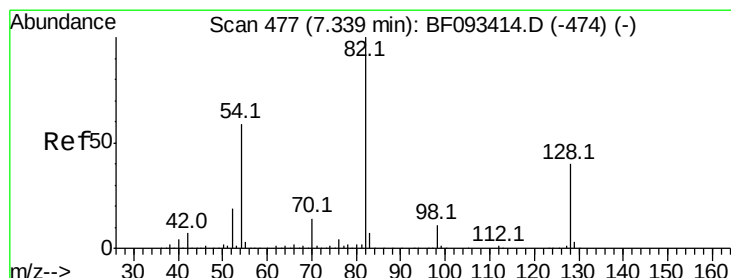
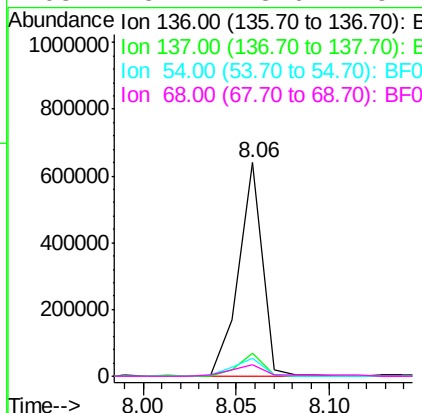
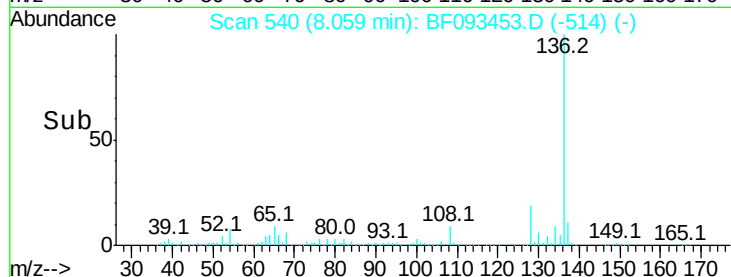
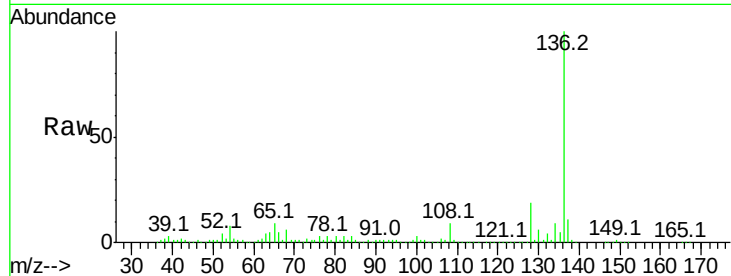
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.06 min Scan# 540
Delta R.T. -0.00 min
Lab File: BF093453.D
Acq: 9 Mar 2017 2:34

Instrument :
BNA_F
ClientSampled :
E2-Z7-BASE

Tot Ion	Ratio	Resp Lower	Upper
136	100		
137	10.8	8.4	12.6
54	8.1	4.5	6.7#
68	5.7	3.6	5.4#

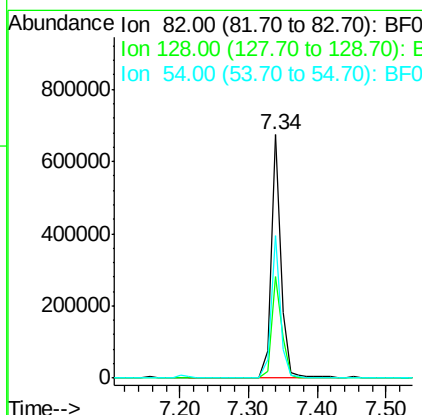
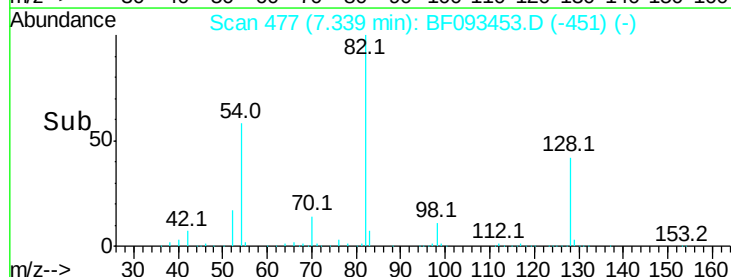
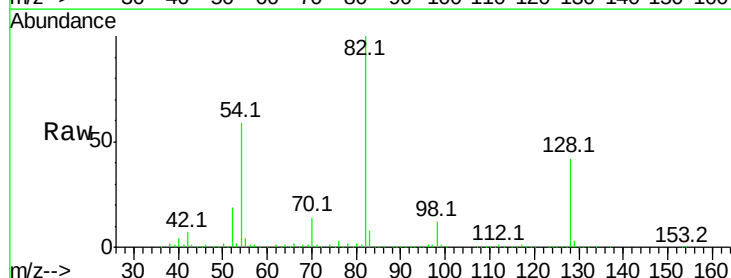
Manual Integrations
APPROVED

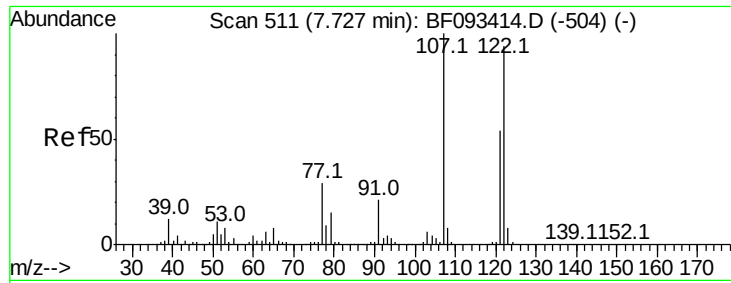
mohammad
3/10/2017 8:12:36 AM



#23
Nitrobenzene-d5
Concen: 64.27 ng
RT: 7.34 min Scan# 477
Delta R.T. -0.00 min
Lab File: BF093453.D
Acq: 9 Mar 2017 2:34

Tgt Ion	Ratio	Resp Lower	Upper
82	100		
128	41.6	34.6	52.0
54	58.8	39.5	59.3





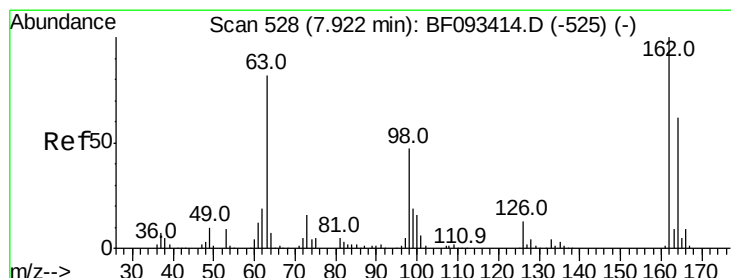
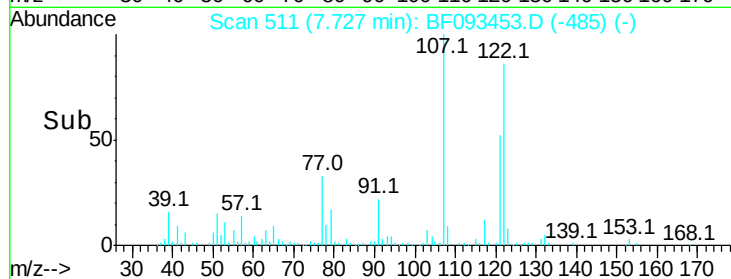
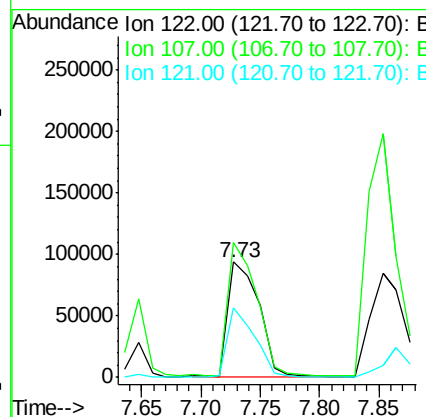
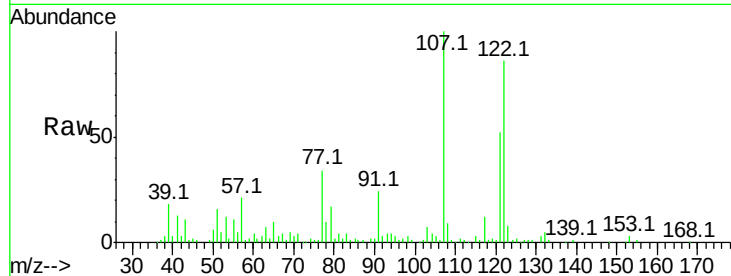
#27
2,4-Dimethylphenol
Concen: 19.65 ng
RT: 7.73 min Scan# 511
Delta R.T. -0.00 min
Lab File: BF093453.D
Acq: 9 Mar 2017 2:34

Instrument :
BNA_F
ClientSampleId :
E2-Z7-BASE

Tot Ion	Ratio	Resp	Lower	Upper
122	100	169958		
107	116.7	94.1	141.1	
121	60.7	46.0	69.0	

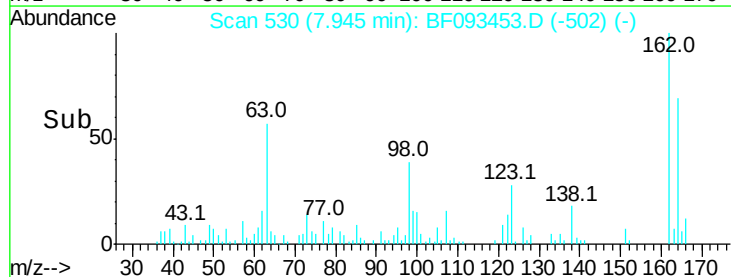
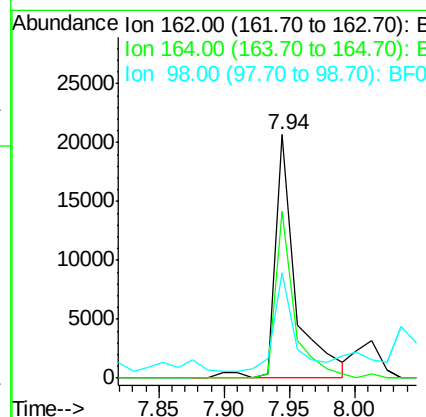
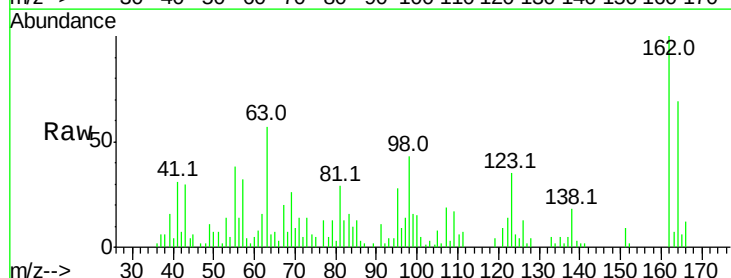
Manual Integrations
APPROVED

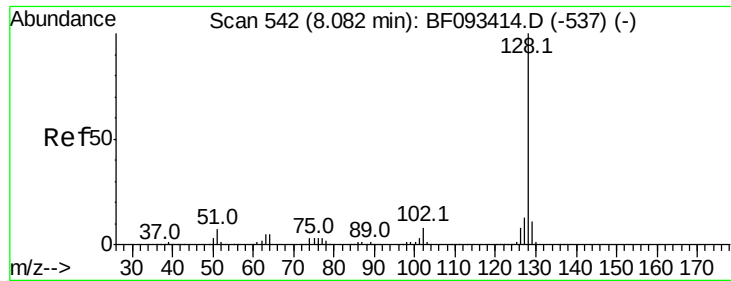
mohammad
3/10/2017 8:12:36 AM



#29
2,4-Dichlorophenol
Concen: 2.79 ng
RT: 7.94 min Scan# 530
Delta R.T. 0.02 min
Lab File: BF093453.D
Acq: 9 Mar 2017 2:34

Tgt Ion	Ratio	Resp	Lower	Upper
162	100	22738		
164	68.6	46.8	86.8	
98	43.1	9.1	49.1	





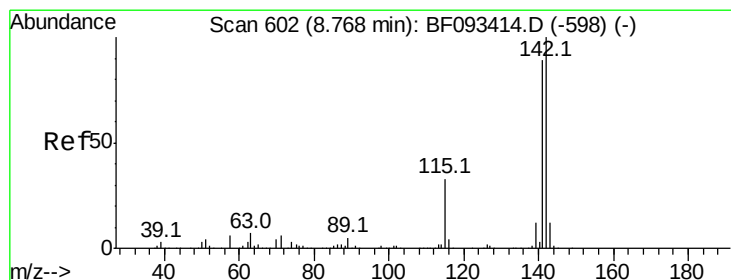
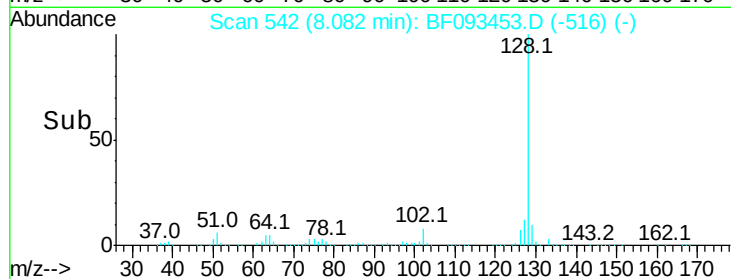
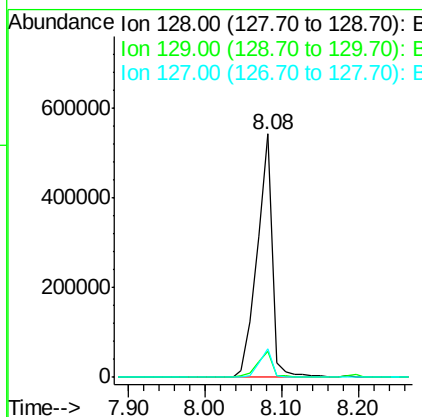
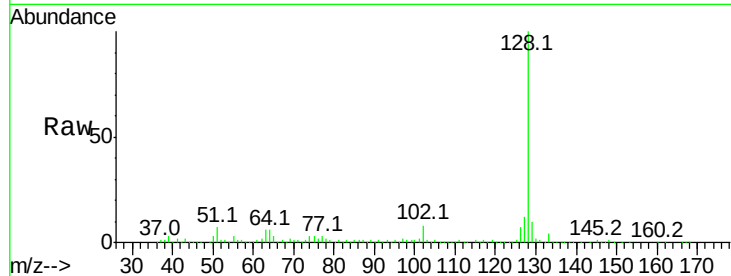
#31
Naphthalene
Concen: 25.38 ng
RT: 8.08 min Scan# 542
Delta R.T. -0.00 min
Lab File: BF093453.D
Acq: 9 Mar 2017 2:34

Instrument :
BNA_F
ClientSampleId :
E2-Z7-BASE

Tot Ion:128	Resp:	731879
Ion Ratio	Lower	Upper
128 100		
129 10.5	9.5	14.3
127 11.9	10.8	16.2

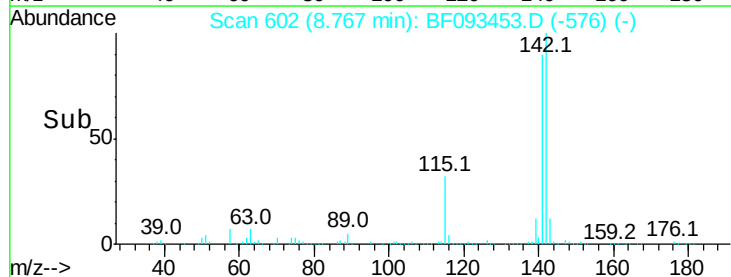
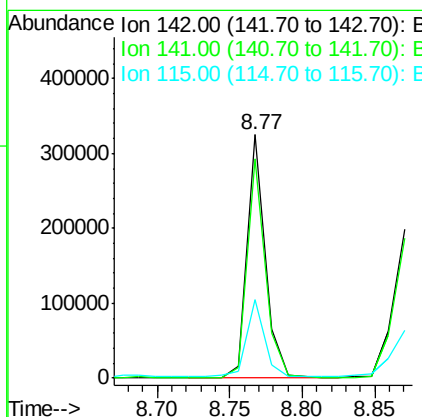
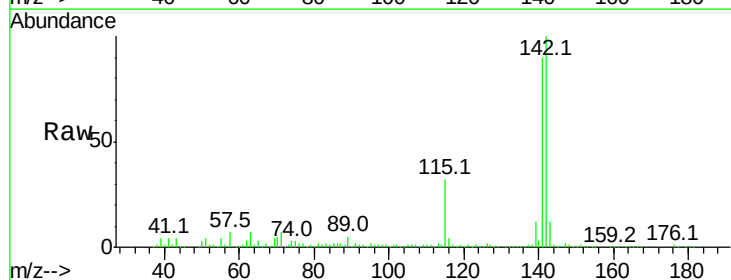
Manual Integrations
APPROVED

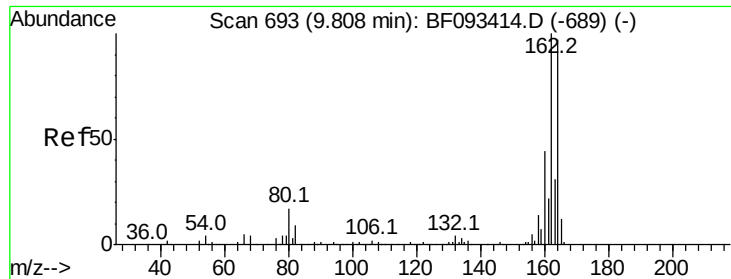
mohammad
3/10/2017 8:12:36 AM



#37
2-Methylnaphthalene
Concen: 15.50 ng
RT: 8.77 min Scan# 602
Delta R.T. -0.00 min
Lab File: BF093453.D
Acq: 9 Mar 2017 2:34

Tgt Ion:142	Resp:	284337
Ion Ratio	Lower	Upper
142 100		
141 89.8	71.0	106.6
115 32.3	28.3	42.5





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.81 min Scan# 693

Delta R.T. -0.00 min

Lab File: BF093453.D

Acq: 9 Mar 2017 2:34

Instrument :

BNA_F

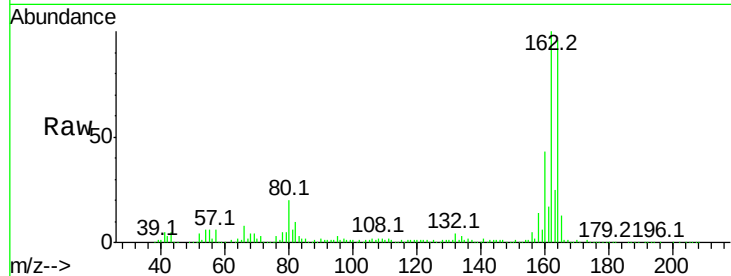
ClientSampleId :

E2-Z7-BASE

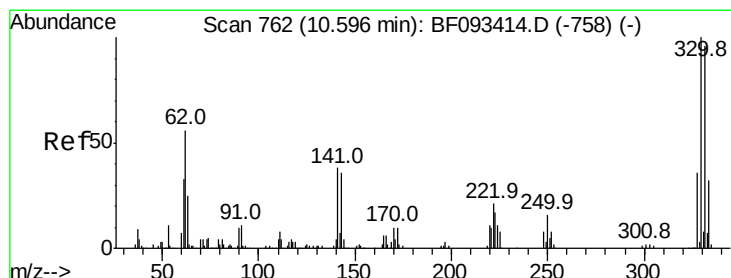
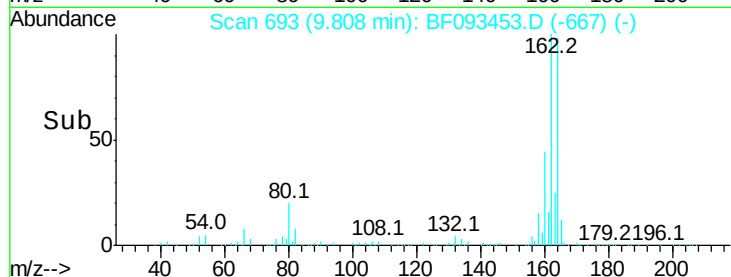
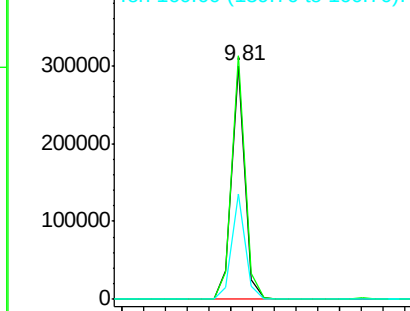
Tot Ion:	164	Resp:	251175
Ion Ratio	Lower	Upper	
164	100		
162	104.3	80.2	120.2
160	45.1	36.9	55.3

Manual Integrations
APPROVED

mohammad
3/10/2017 8:12:36 AM



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: 117.31 ng

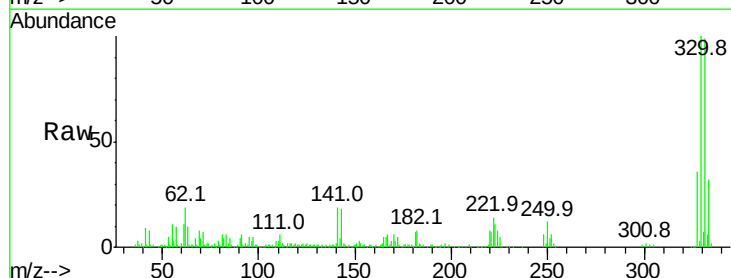
RT: 10.61 min Scan# 763

Delta R.T. 0.01 min

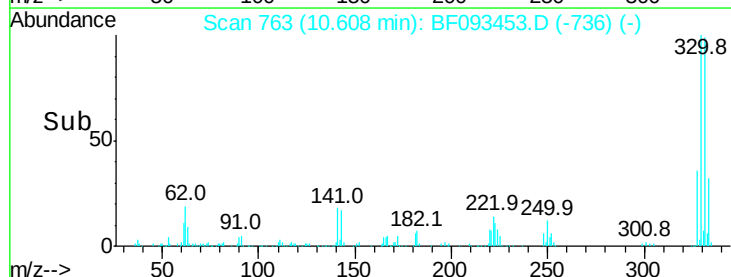
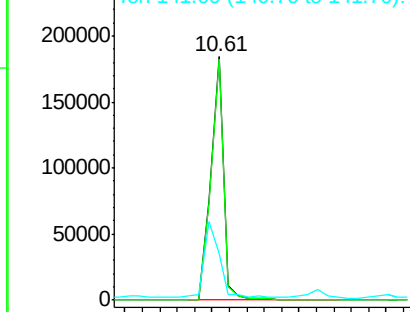
Lab File: BF093453.D

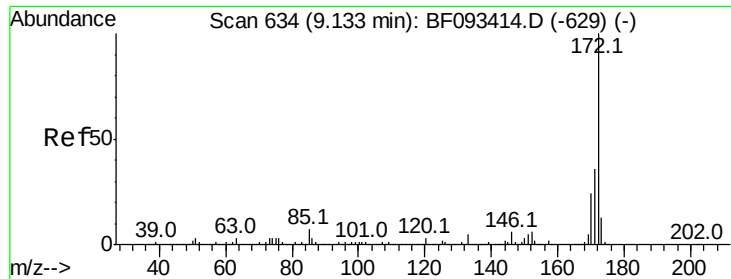
Acq: 9 Mar 2017 2:34

Tgt Ion:	330	Resp:	191970
Ion Ratio	Lower	Upper	
330	100		
332	98.1	77.4	116.2
141	36.1	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: 75.28 ng

RT: 9.13 min Scan# 634

Delta R.T. -0.00 min

Lab File: BF093453.D

Acq: 9 Mar 2017 2:34

Instrument :

BNA_F

ClientSampleId :

E2-Z7-BASE

Tot Ion:172 Resp: 1016561

Ion Ratio Lower Upper

172 100

171 36.7 29.4 44.0

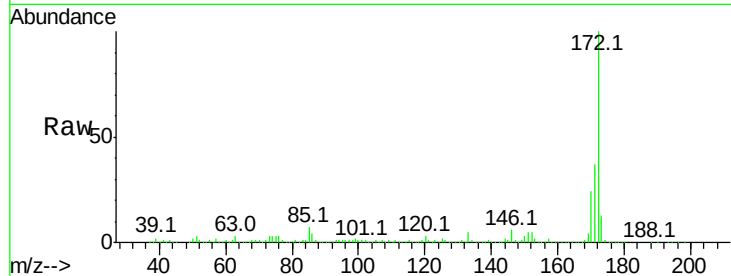
170 24.3 20.2 30.4

Manual Integrations

APPROVED

mohammad

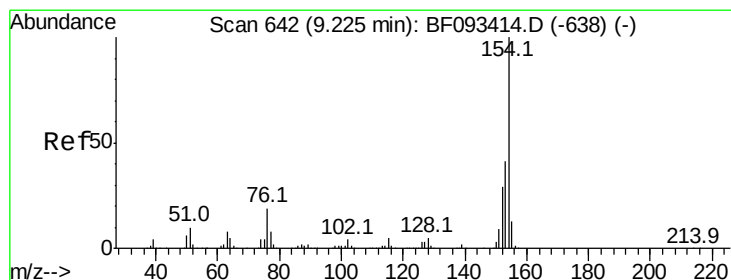
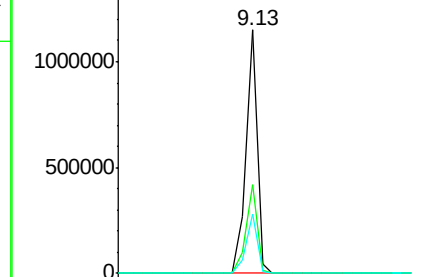
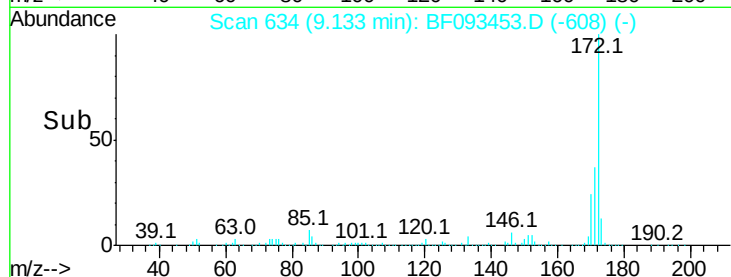
3/10/2017 8:12:36 AM



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



#45

1,1'-Biphenyl

Concen: 2.94 ng

RT: 9.24 min Scan# 643

Delta R.T. 0.01 min

Lab File: BF093453.D

Acq: 9 Mar 2017 2:34

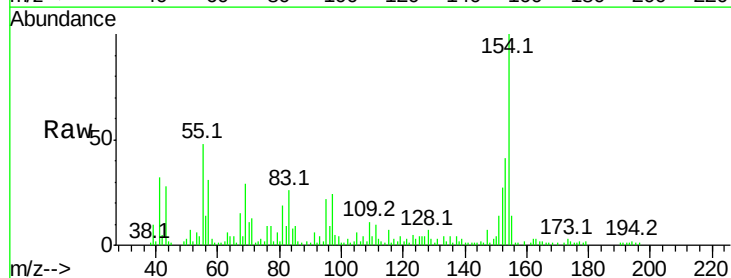
Tgt Ion:154 Resp: 53757

Ion Ratio Lower Upper

154 100

153 40.9 20.9 60.9

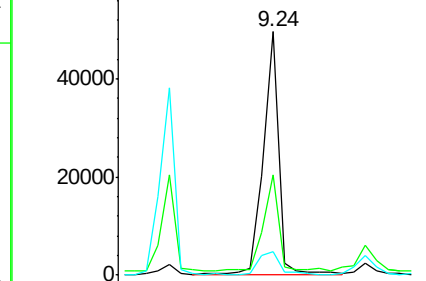
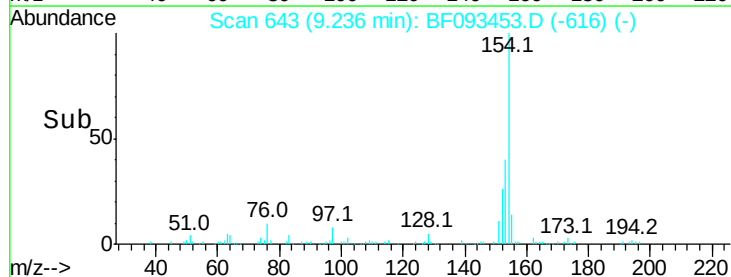
76 9.5 0.0 30.5

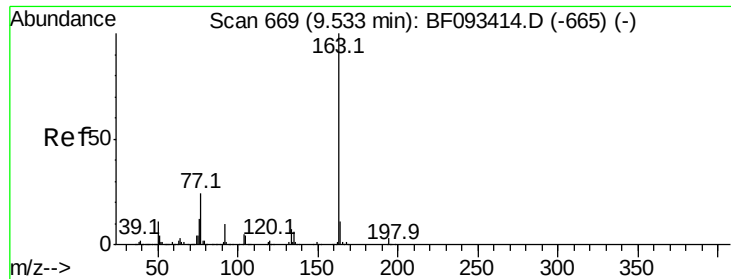


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BF0





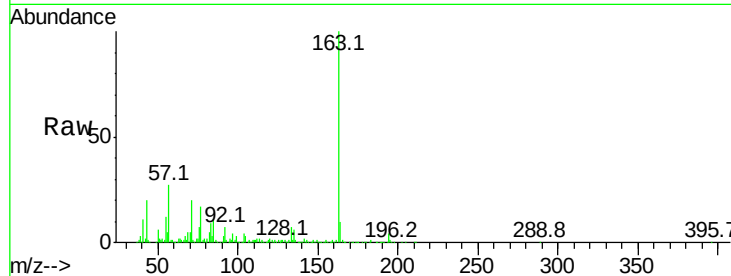
#49
Dimethylphthalate
Concen: 18.86 ng
RT: 9.53 min Scan# 669
Delta R.T. -0.00 min
Lab File: BF093453.D
Acq: 9 Mar 2017 2:34

Instrument :
BNA_F
ClientSampleId :
E2-Z7-BASE

Tot Ion	Ratio	Resp	Lower	Upper
163	100			
194	3.8	3.0	4.4	
164	9.9	8.0	12.0	

Manual Integrations
APPROVED

mohammad
3/10/2017 8:12:36 AM

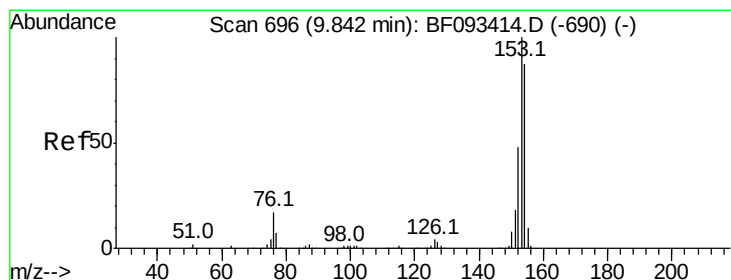
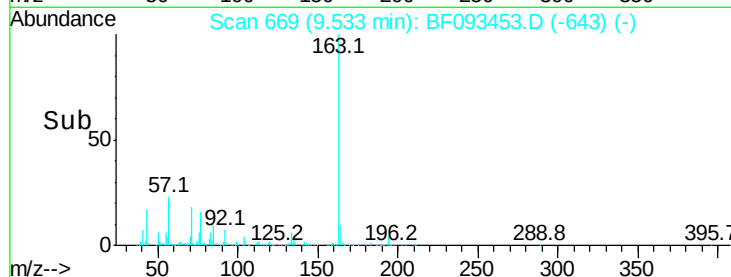
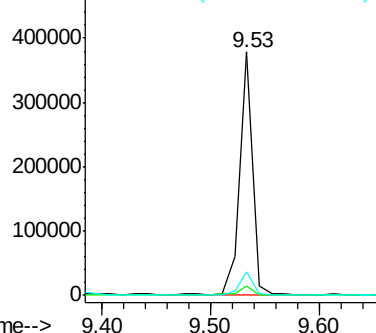


Abundance

Ion 163.00 (162.70 to 163.70): E

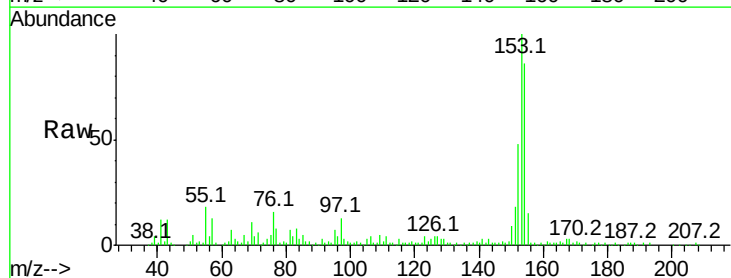
Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#51
Acenaphthene
Concen: 7.75 ng
RT: 9.84 min Scan# 696
Delta R.T. -0.00 min
Lab File: BF093453.D
Acq: 9 Mar 2017 2:34

Tgt Ion	Ratio	Resp	Lower	Upper
154	100			
153	116.5	88.6	133.0	
152	56.5	41.6	62.4	

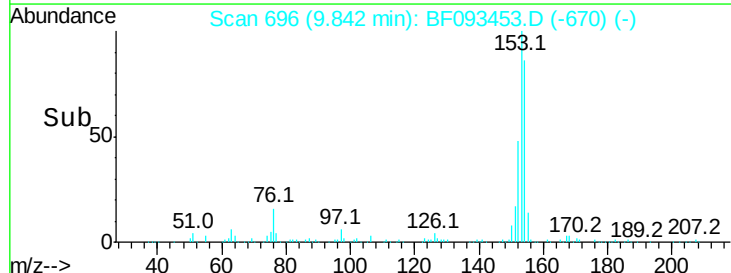
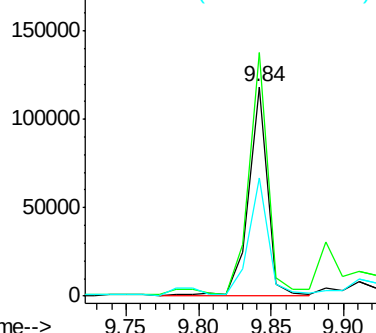


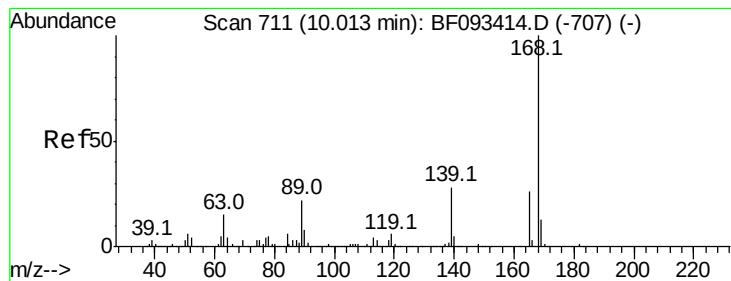
Abundance

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: 12.21 ng

RT: 10.01 min Scan# 711

Delta R.T. -0.00 min

Lab File: BF093453.D

Acq: 9 Mar 2017 2:34

Instrument :

BNA_F

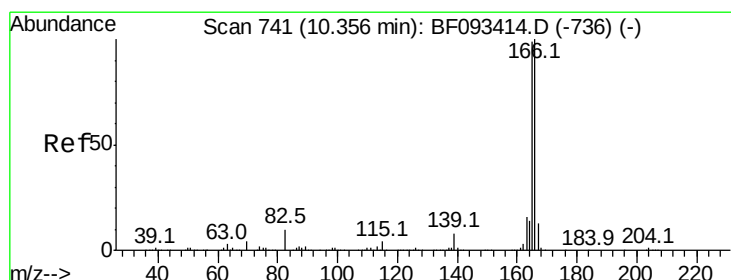
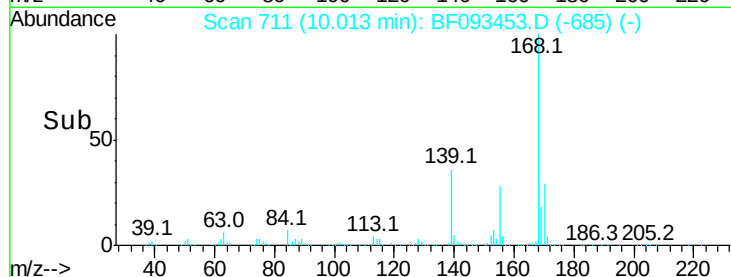
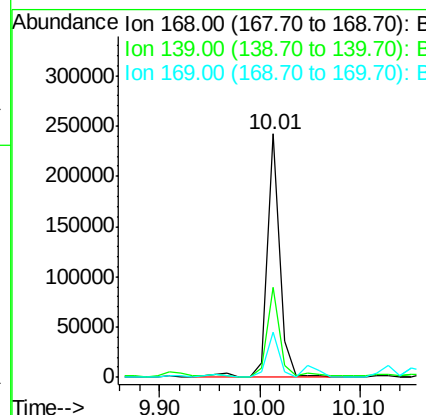
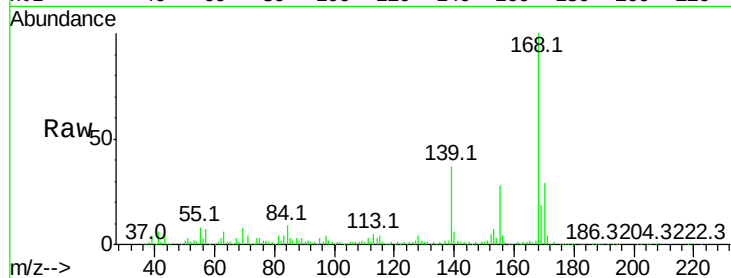
ClientSampleId :

E2-Z7-BASE

Tot Ion:	168	Resp:	208743
Ion Ratio	Lower	Upper	
168	100		
139	36.9	32.6	49.0
169	18.7	11.3	16.9#

Manual Integrations
APPROVED

mohammad
3/10/2017 8:12:36 AM



#57

Fluorene

Concen: 10.95 ng m

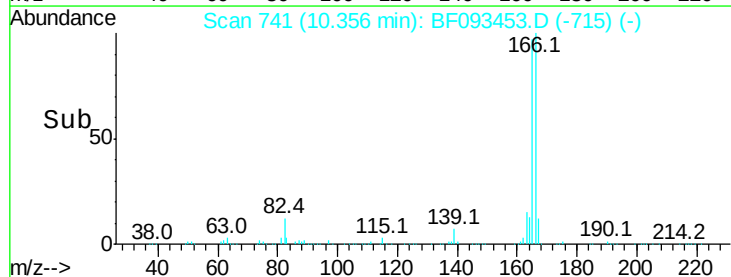
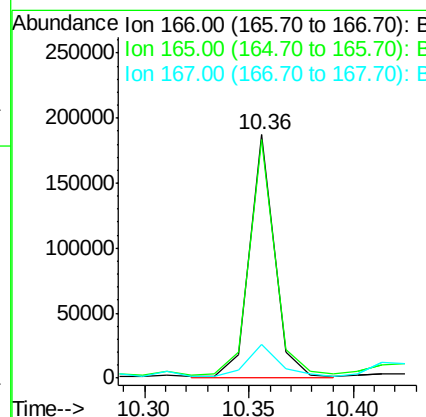
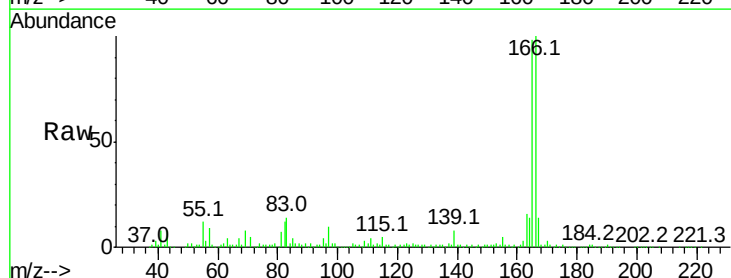
RT: 10.36 min Scan# 741

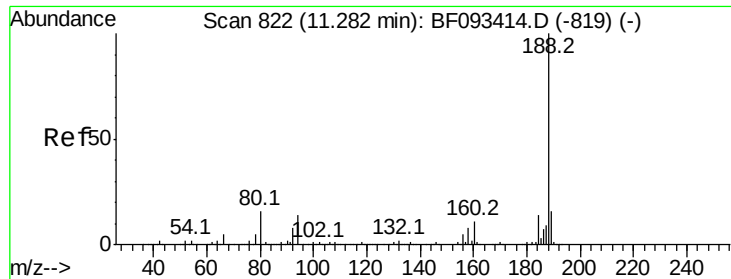
Delta R.T. -0.00 min

Lab File: BF093453.D

Acq: 9 Mar 2017 2:34

Tgt Ion:	166	Resp:	158679
Ion Ratio	Lower	Upper	
166	100		
165	97.9	77.8	116.8
167	13.7	10.8	16.2





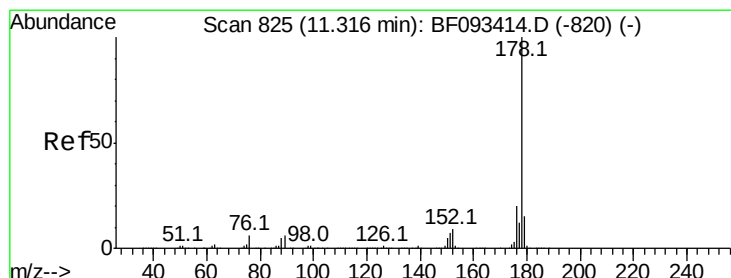
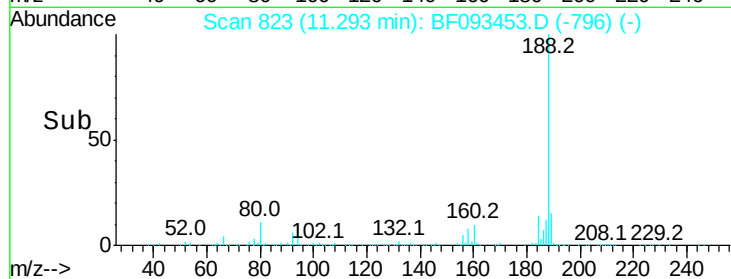
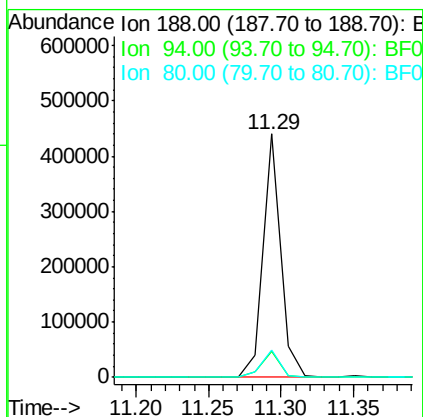
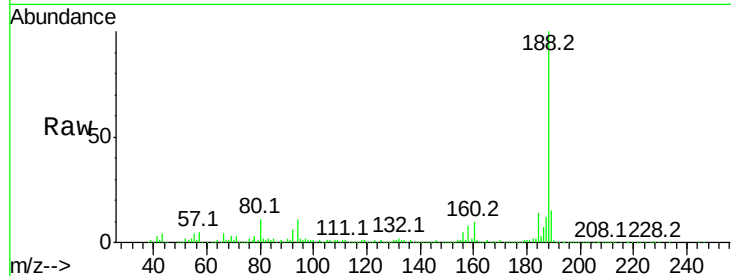
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.29 min Scan# 823
Delta R.T. 0.01 min
Lab File: BF093453.D
Acq: 9 Mar 2017 2:34

Instrument :
BNA_F
ClientSampleId :
E2-Z7-BASE

Tot Ion	Ratio	Resp	Lower	Upper
188	100	371598		
94	10.6		10.0	15.0
80	11.3		11.2	16.8

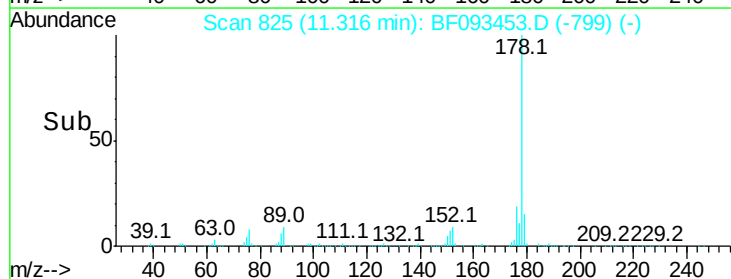
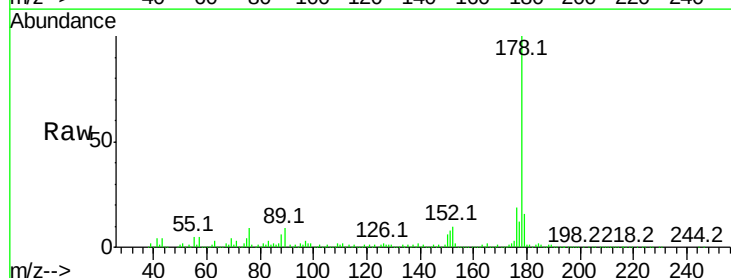
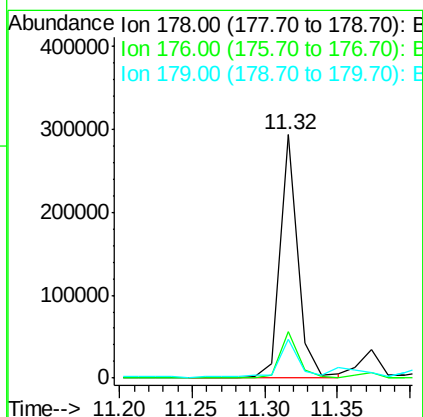
Manual Integrations
APPROVED

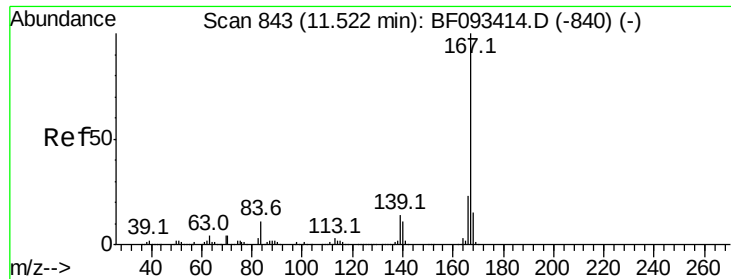
mohammad
3/10/2017 8:12:36 AM



#70
Phenanthrene
Concen: 11.68 ng
RT: 11.32 min Scan# 825
Delta R.T. -0.00 min
Lab File: BF093453.D
Acq: 9 Mar 2017 2:34

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	247715		
176	19.3		16.6	25.0
179	15.8		12.8	19.2





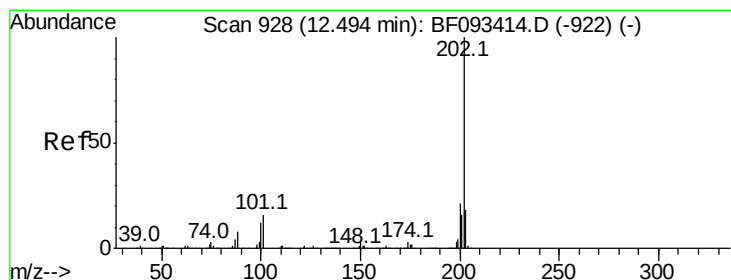
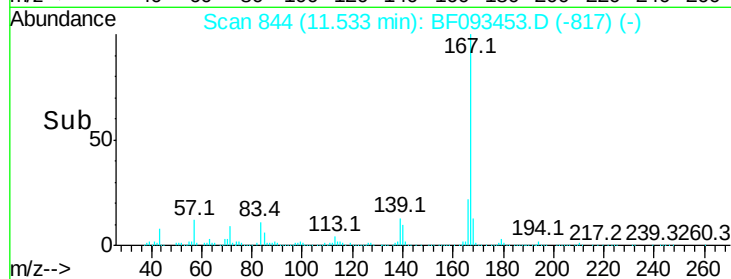
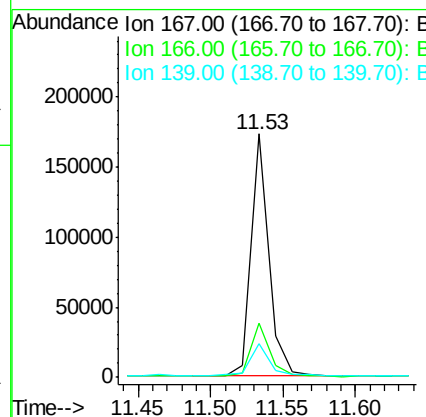
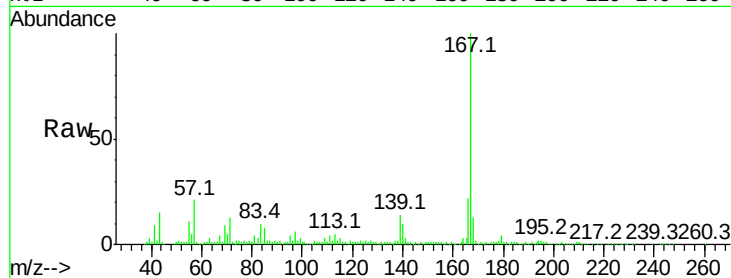
#72
 Carbazole
 Concen: 7.20 ng
 RT: 11.53 min Scan# 844
 Delta R.T. 0.01 min
 Lab File: BF093453.D
 Acq: 9 Mar 2017 2:34

Instrument :
 BNA_F
 ClientSampleId :
 E2-Z7-BASE

Tot Ion	Ratio	Resp	Lower	Upper
167	100	145166		
166	22.5	18.2	27.2	
139	14.0	11.4	17.2	

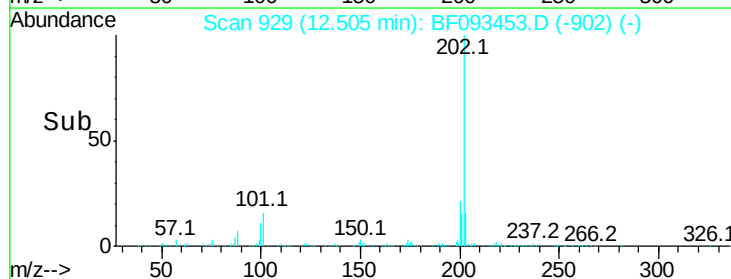
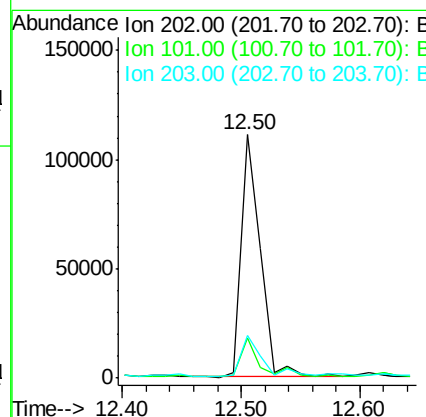
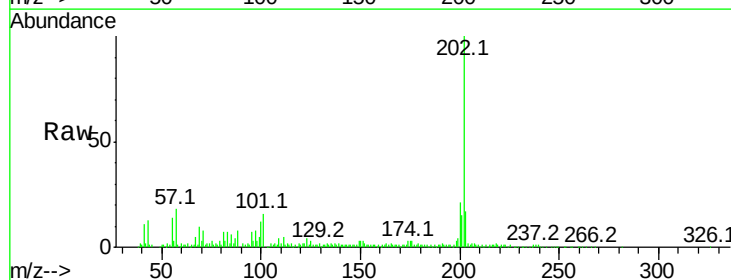
Manual Integrations
 APPROVED

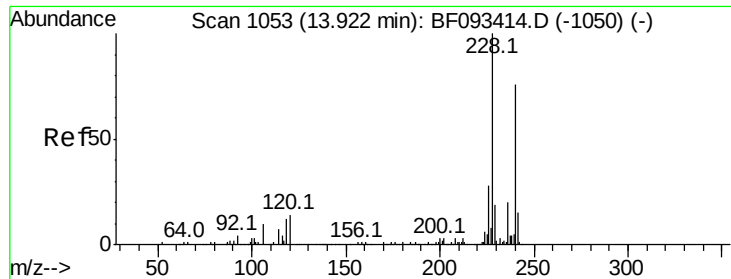
mohammad
 3/10/2017 8:12:36 AM



#74
 Fluoranthene
 Concen: 6.04 ng
 RT: 12.50 min Scan# 929
 Delta R.T. 0.01 min
 Lab File: BF093453.D
 Acq: 9 Mar 2017 2:34

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	123851		
101	16.2	0.0	34.6	
203	17.3	0.0	38.7	





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.93 min Scan# 1054

Delta R.T. 0.01 min

Lab File: BF093453.D

Acq: 9 Mar 2017 2:34

Instrument :

BNA_F

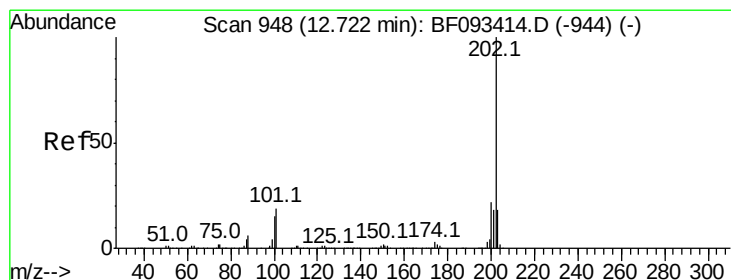
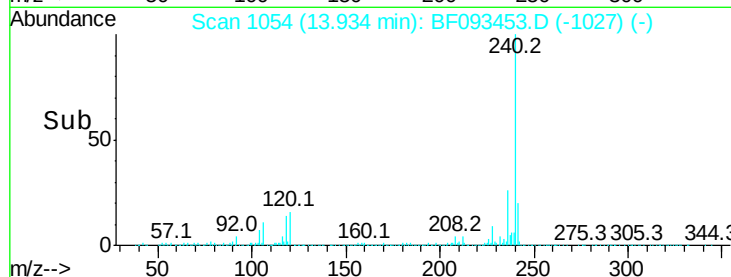
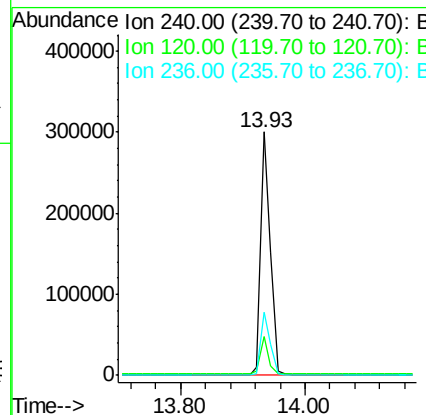
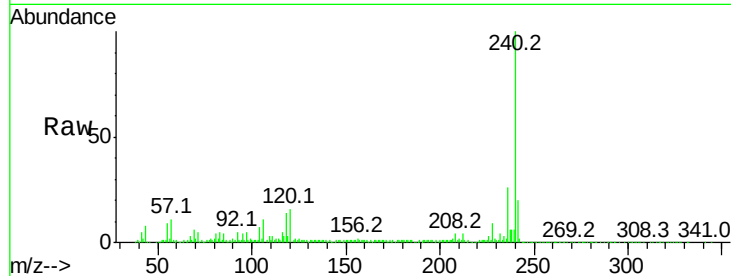
ClientSampleId :

E2-Z7-BASE

Tot Ion:	240	Resp:	329841
Ion Ratio	Lower	Upper	
240	100		
120	16.1	12.9	19.3
236	25.7	20.9	31.3

Manual Integrations
APPROVED

mohammad
3/10/2017 8:12:36 AM



#77

Pyrene

Concen: 4.49 ng

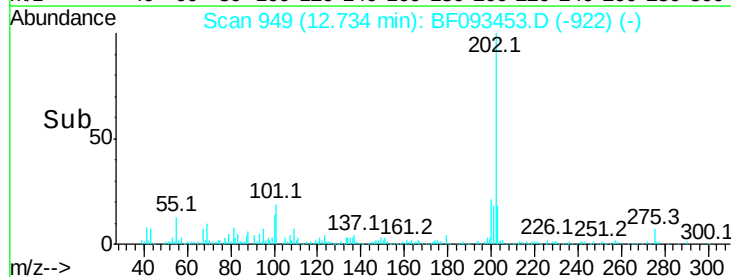
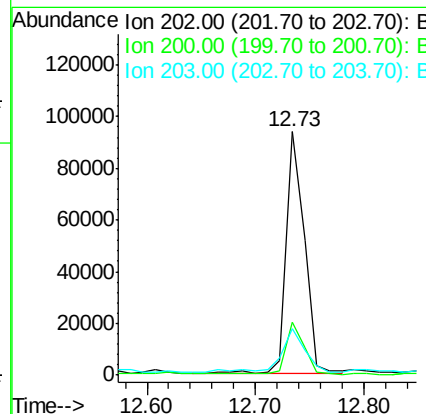
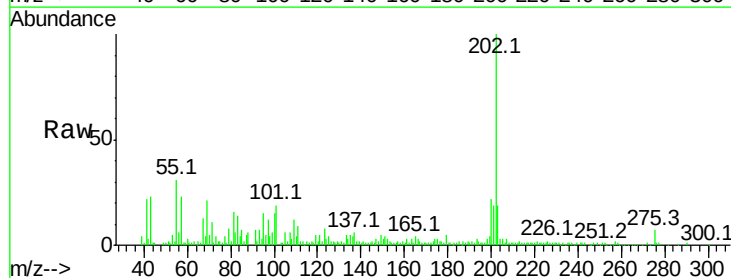
RT: 12.73 min Scan# 949

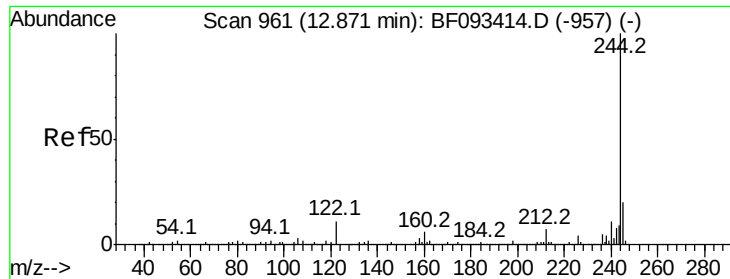
Delta R.T. 0.01 min

Lab File: BF093453.D

Acq: 9 Mar 2017 2:34

Tgt Ion:	202	Resp:	107790
Ion Ratio	Lower	Upper	
202	100		
200	21.5	17.7	26.5
203	19.1	14.7	22.1





#78

Terphenyl-d14

Concen: 46.64 ng

RT: 12.88 min Scan# 962

Delta R.T. 0.01 min

Lab File: BF093453.D

Acq: 9 Mar 2017 2:34

Instrument :

BNA_F

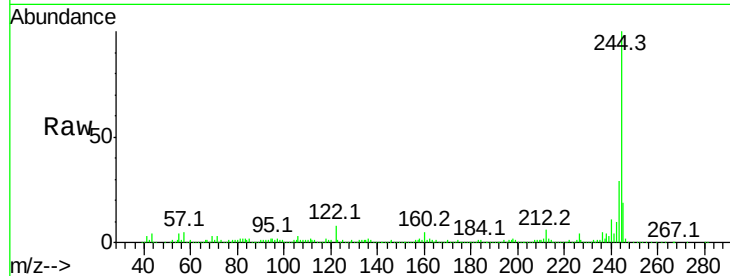
ClientSampleId :

E2-Z7-BASE

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.4	6.2	9.2
122	7.7	11.4	17.2#

Manual Integrations
APPROVED

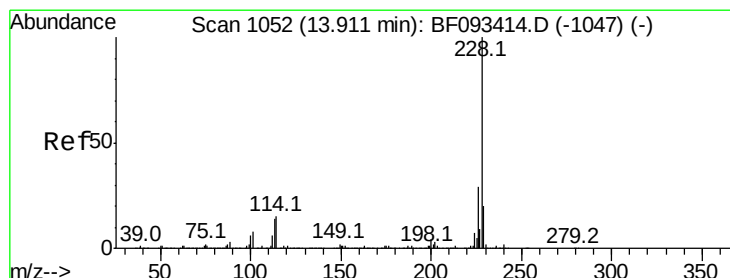
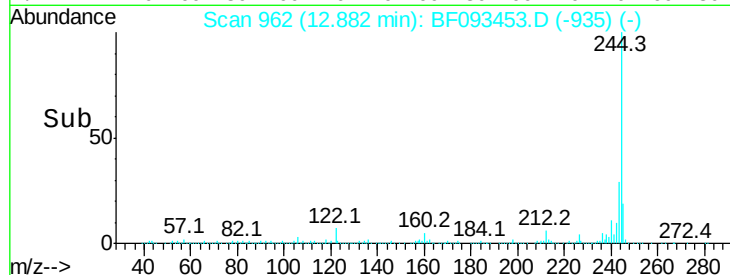
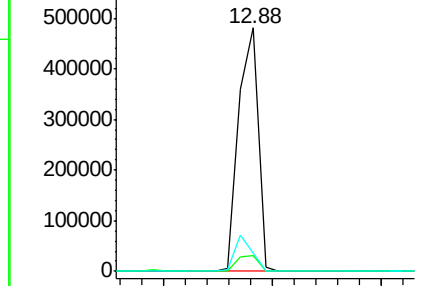
mohammad
3/10/2017 8:12:36 AM



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 2.72 ng

RT: 13.92 min Scan# 1053

Delta R.T. 0.01 min

Lab File: BF093453.D

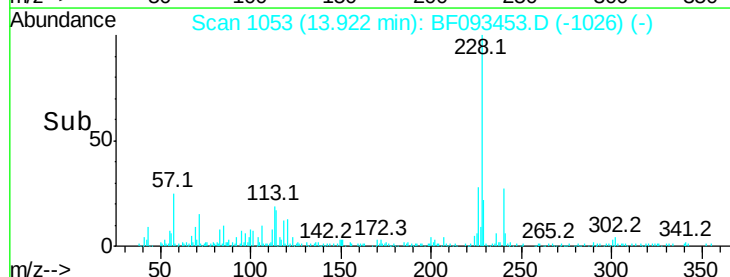
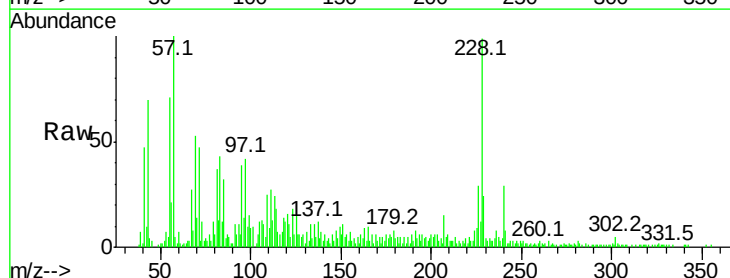
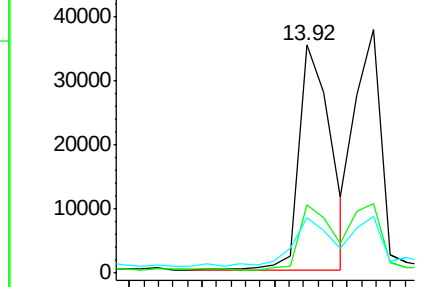
Acq: 9 Mar 2017 2:34

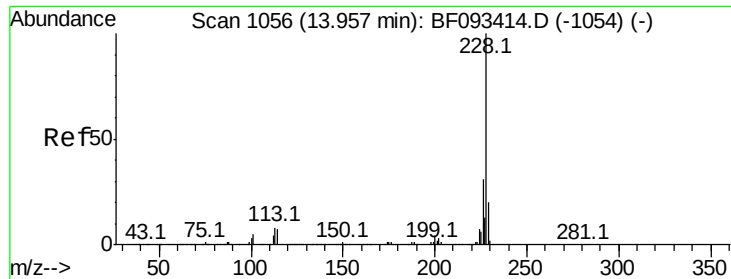
Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.8	22.4	33.6
229	24.3	16.2	24.4

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





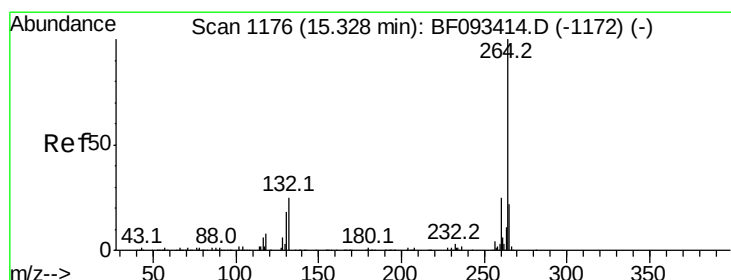
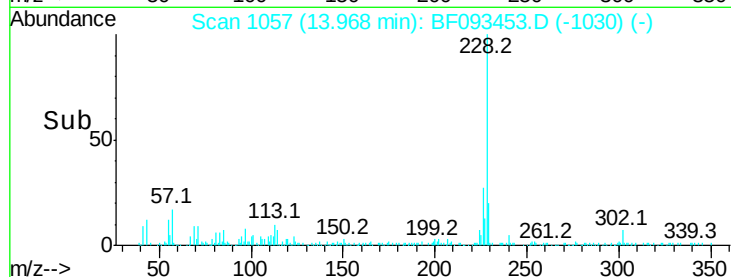
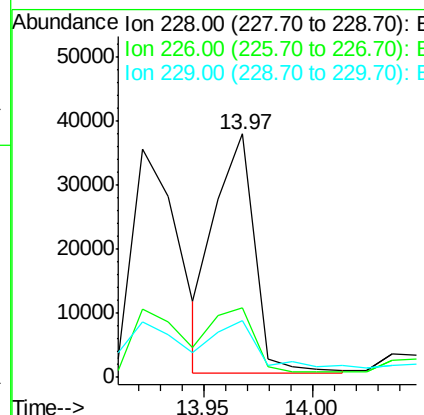
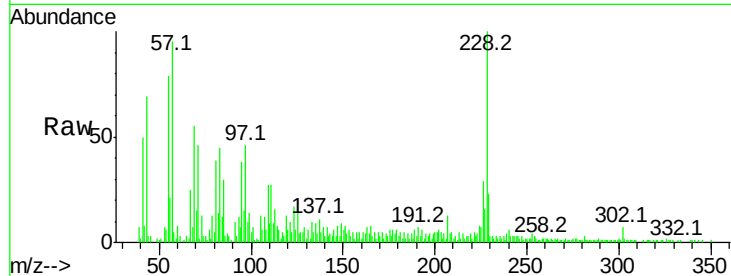
#82
Chrysene
Concen: 2.61 ng
RT: 13.97 min Scan# 1057
Delta R.T. 0.01 min
Lab File: BF093453.D
Acq: 9 Mar 2017 2:34

Instrument :
BNA_F
ClientSampled :
E2-Z7-BASE

Tot Ion:	228	Resp:	47111
Ion Ratio	Lower	Upper	
228	100		
226	28.6	25.4	38.0
229	23.3	16.2	24.2

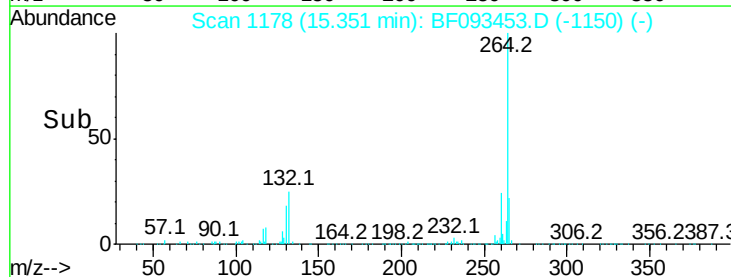
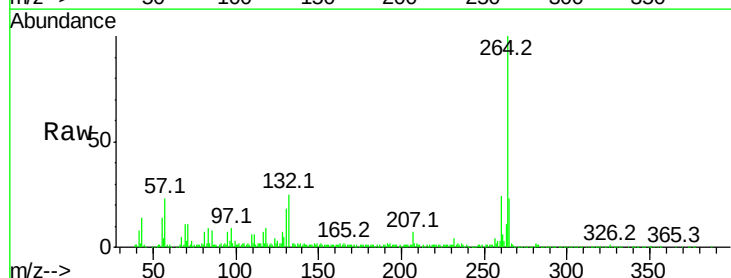
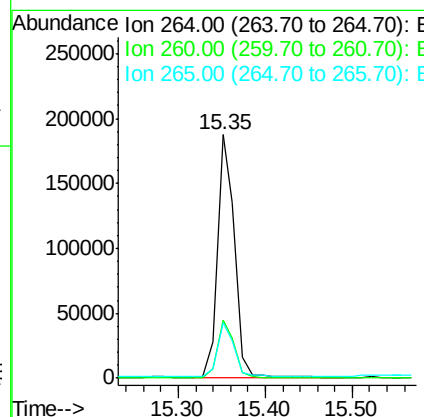
Manual Integrations
APPROVED

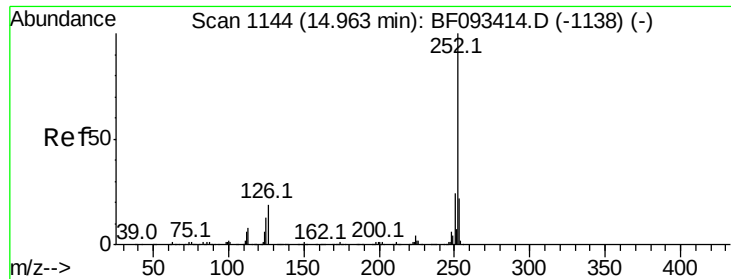
mohammad
3/10/2017 8:12:36 AM



#86
Perylene-d12
Concen: 20.00 ng
RT: 15.35 min Scan# 1178
Delta R.T. 0.02 min
Lab File: BF093453.D
Acq: 9 Mar 2017 2:34

Tgt Ion:	264	Resp:	255015
Ion Ratio	Lower	Upper	
264	100		
260	23.9	19.2	28.8
265	22.9	17.4	26.0





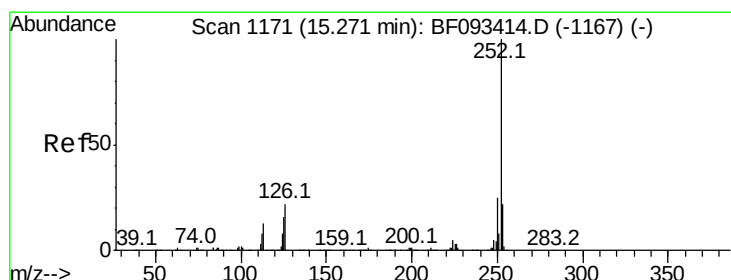
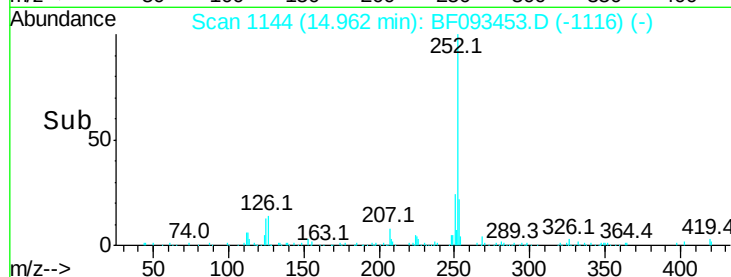
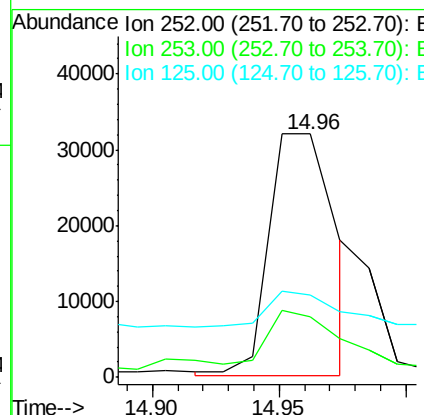
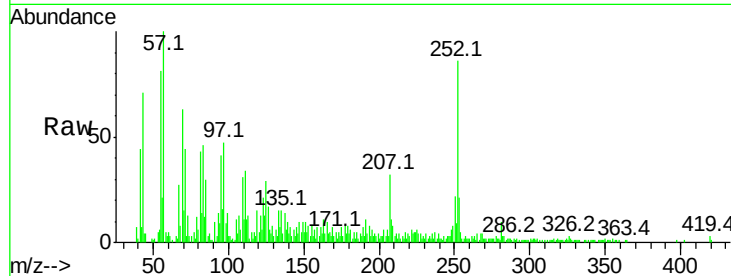
#87
Benzo(b)fluoranthene
Concen: 3.73 ng m
RT: 14.96 min Scan# 1144
Delta R.T. 0.02 min
Lab File: BF093453.D
Acq: 9 Mar 2017 2:34

Instrument :
BNA_F
ClientSampleId :
E2-Z7-BASE

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.9	18.2	27.4
125	33.9	9.8	14.6

Manual Integrations
APPROVED

mohammad
3/10/2017 8:12:36 AM



#89
Benzo(a)pyrene
Concen: 2.52 ng
RT: 15.29 min Scan# 1173
Delta R.T. 0.02 min
Lab File: BF093453.D
Acq: 9 Mar 2017 2:34

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.6	18.2	27.2
125	39.2	10.0	15.0

