

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032917\
 Data File : BF094050.D
 Acq On : 30 Mar 2017 7:40
 Operator : SJ/MA
 Sample : I2443-03
 Misc :
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E2-P12-BASE

Manual Integrations
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 3/30/2017 2:32:45 PM

Quant Time: Mar 30 08:10:11 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 27 16:10:49 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.92	152	159964	20.00	ng	-0.03
21) Naphthalene-d8	7.43	136	622429	20.00	ng	-0.03
38) Acenaphthene-d10	9.57	164	270259	20.00	ng	-0.03
63) Phenanthrene-d10	11.39	188	419121	20.00	ng	-0.03
75) Chrysene-d12	14.66	240	271959	20.00	ng	-0.02
86) Perylene-d12	16.29	264	253913	20.00	ng	-0.02

System Monitoring Compounds						
5) 2-Fluorophenol	4.46	112	893893	94.38	ng	-0.01
7) Phenol-d6	5.53	99	1131455	96.57	ng	-0.02
23) Nitrobenzene-d5	6.57	82	545329	50.00	ng	-0.04
41) 2,4,6-Tribromophenol	10.54	330	152360	71.34	ng	-0.04
44) 2-Fluorobiphenyl	8.75	172	1204879	68.00	ng	-0.03
78) Terphenyl-d14	13.37	244	674579	55.60	ng	-0.03

Target Compounds				Qvalue		
31) Naphthalene	7.45	128	140414	4.69	ng	99
37) 2-Methylnaphthalene	8.29	142	56272	2.82	ng	97
48) Acenaphthylene	9.39	152	469906	16.57	ng	98
49) Dimethylphthalate	9.25	163	85073	4.43	ng	100
51) Acenaphthene	9.60	154	99142	5.99	ng	97
54) Dibenzofuran	9.82	168	109660	4.87	ng	99
57) Fluorene	10.24	166	126256	6.76	ng	97
70) Phenanthrene	11.43	178	1814009	77.81	ng	99
71) Anthracene	11.49	178	616860	25.70	ng	99
72) Carbazole	11.69	167	204695	8.32	ng	96
74) Fluoranthene	12.91	202	3754098	157.25	ng	100
77) Pylene	13.19	202	3123209	158.24	ng	99
80) Benzo(a)anthracene	14.65	228	1680327	105.96	ng	97
82) Chrysene	14.70	228	1532020	104.10	ng	97
85) Indeno(1,2,3-cd)pyrene	17.67	276	611695	47.99	ng	96
87) Benzo(b)fluoranthene	15.90	252	1832524m	117.74	ng	
88) Benzo(k)fluoranthene	15.92	252	545876m	35.85	ng	
89) Benzo(a)pyrene	16.24	252	1013736	70.73	ng	97
90) Dibenzo(a,h)anthracene	17.67	278	175483m	14.46	ng	
91) Benzo(a,h,i)perylene	18.07	276	518203	42.36	ng	99

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

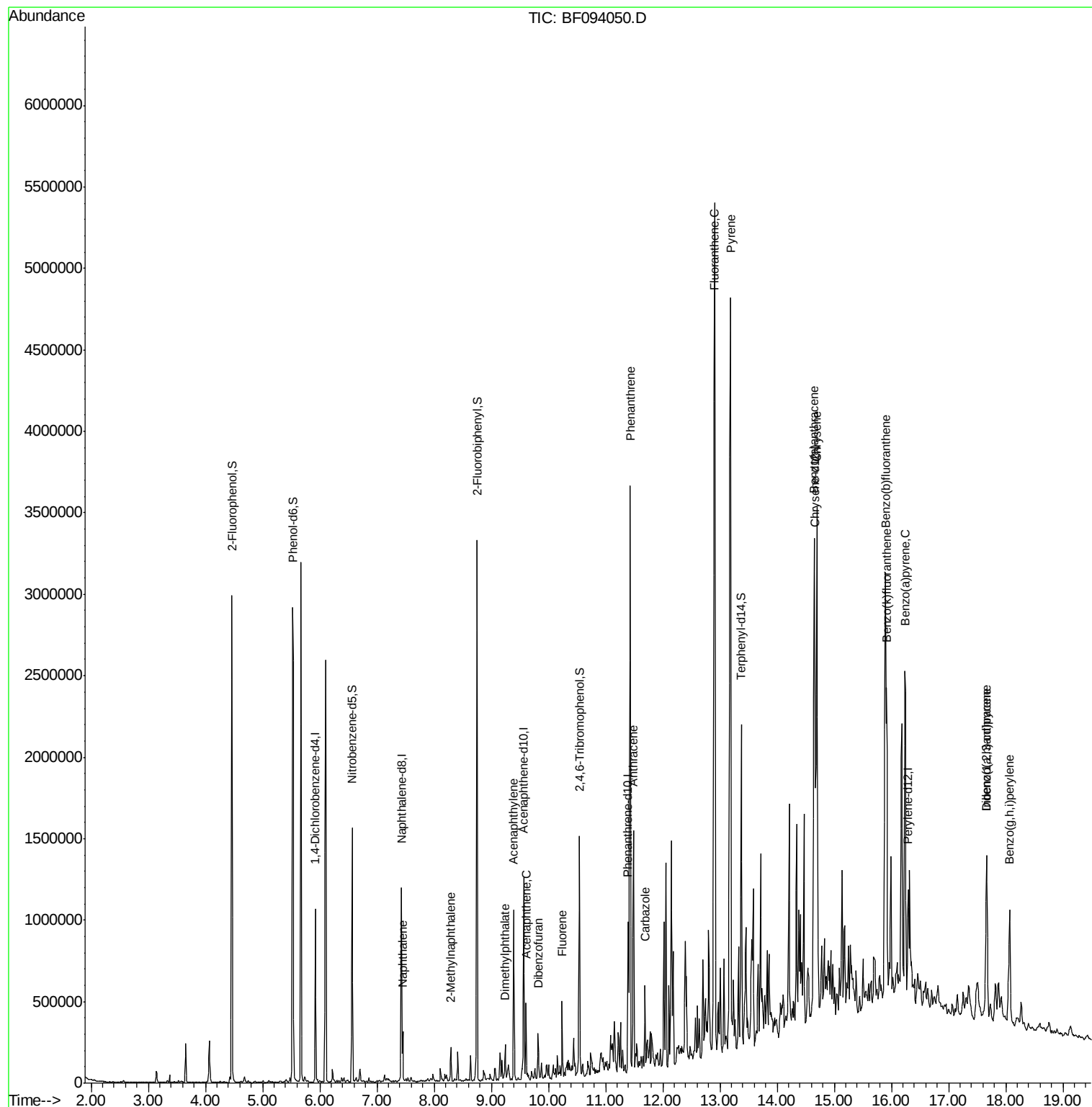
Data Path : Z:\HPCHEM1\BNA F\DATA\BF032917\
Data File : BF094050.D
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ALS Vial : 32 Sample Multiplier: 1

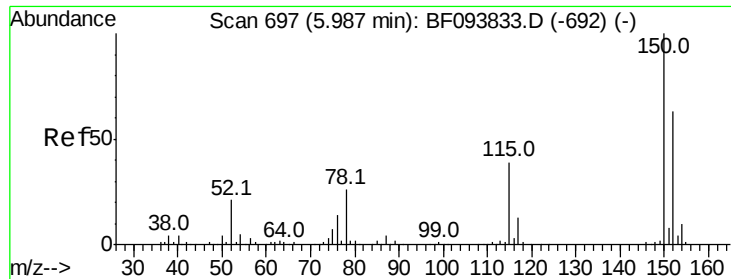
Instrument :
BNA_F
ClientSampleId :
E2-P12-BASE

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

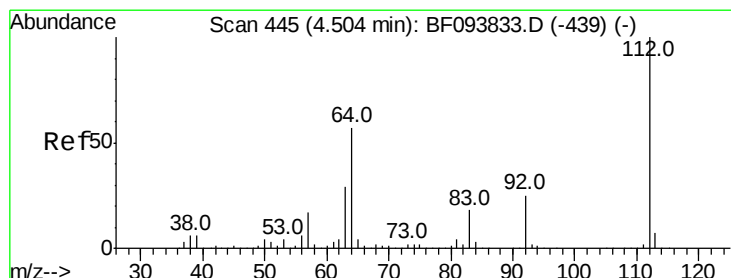
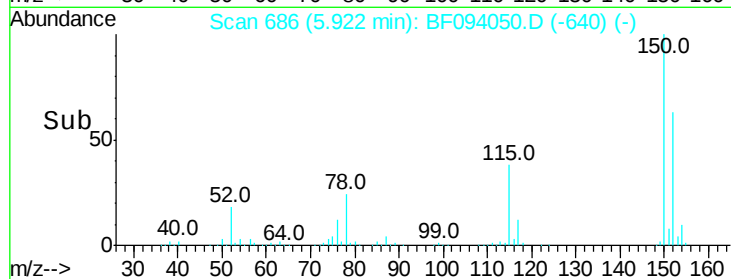
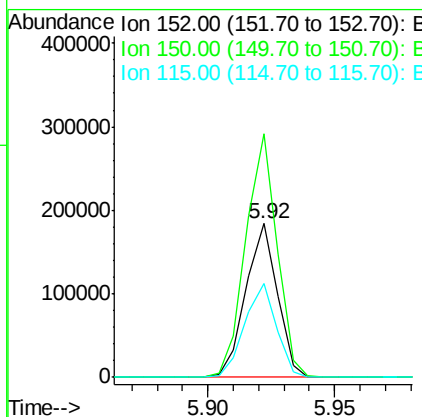
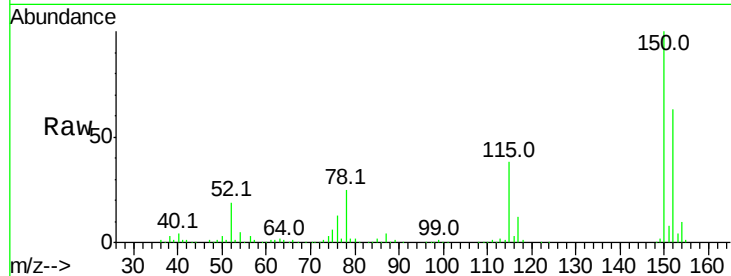
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 5.92 min Scan# 686
Delta R.T. -0.03 min
Lab File: BF094050.D
Acq: 30 Mar 2017 7:40

Instrument :
BNA_F
ClientSampleId :
E2-P12-BASE

Tot Ion	Ratio	Lower	Upper
152	100		
150	158.5	126.2	189.2
115	60.7	52.2	78.2

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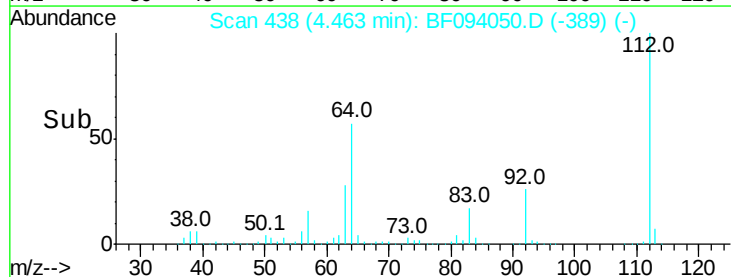
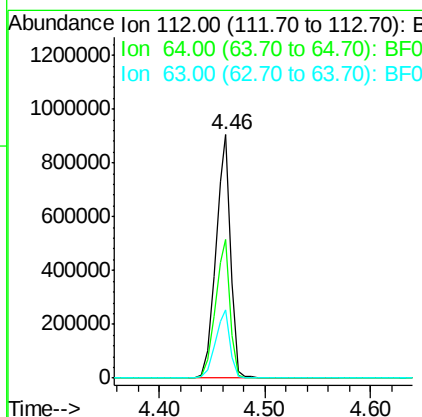
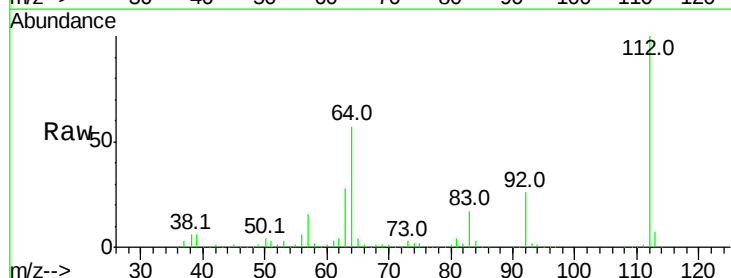
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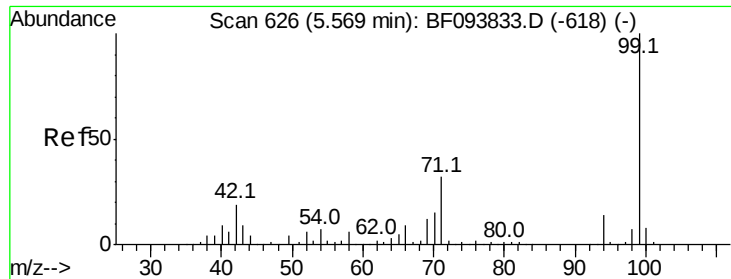


#5

2-Fluorophenol
Concen: 94.38 ng
RT: 4.46 min Scan# 438
Delta R.T. -0.01 min
Lab File: BF094050.D
Acq: 30 Mar 2017 7:40

Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.8	46.0	69.0
63	28.1	23.4	35.0





#7

Phenol-d6

Concen: 96.57 ng

RT: 5.53 min Scan# 620

Delta R.T. -0.02 min

Lab File: BF094050.D

Acq: 30 Mar 2017 7:40

Instrument :

BNA_F

ClientSampleId :

E2-P12-BASE

Tot Ion: 99 Resp: 1131455

Ion Ratio Lower Upper

99 100

42 17.3 13.5 20.3

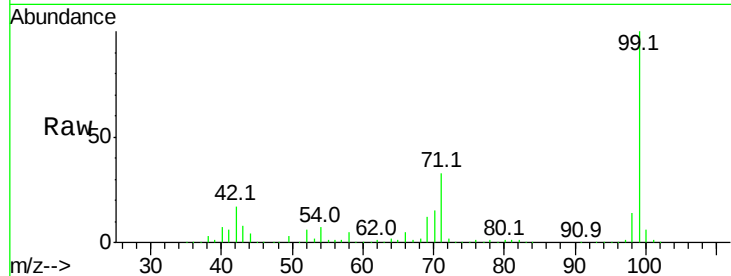
71 32.8 24.5 36.7

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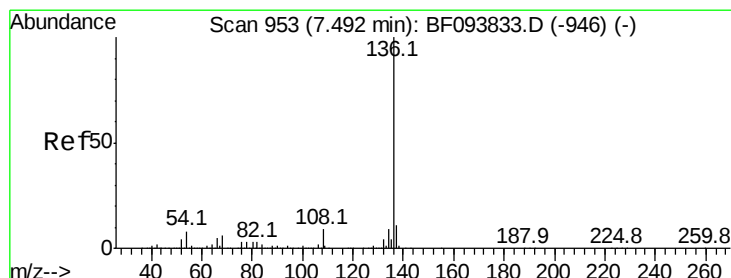
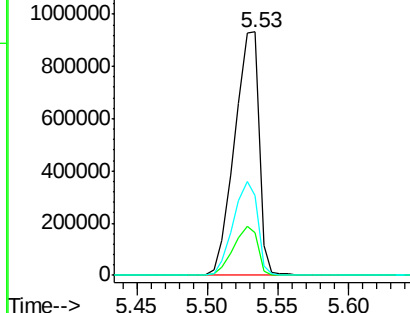
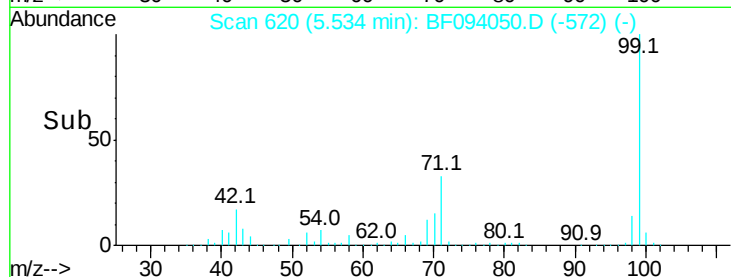
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Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.43 min Scan# 942

Delta R.T. -0.03 min

Lab File: BF094050.D

Acq: 30 Mar 2017 7:40

Tgt Ion: 136 Resp: 622429

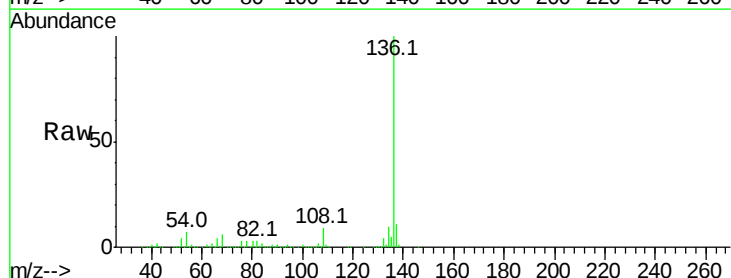
Ion Ratio Lower Upper

136 100

137 10.8 8.5 12.7

54 7.1 4.9 7.3

68 5.6 4.1 6.1

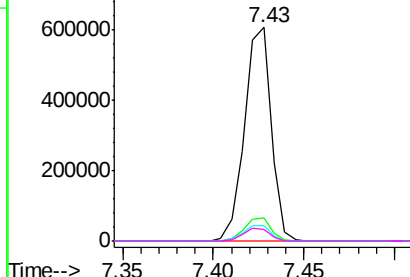
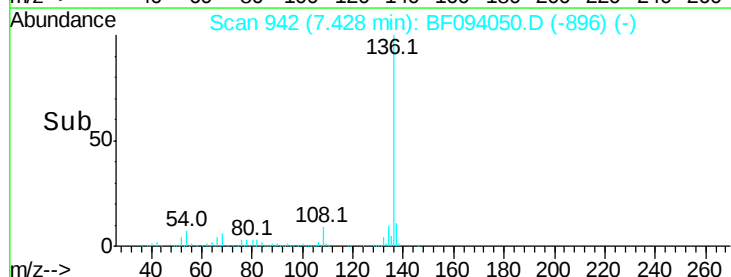


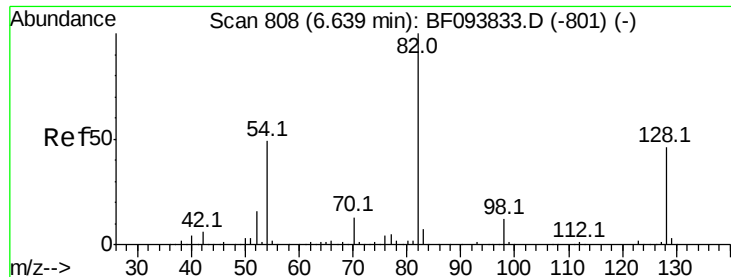
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0





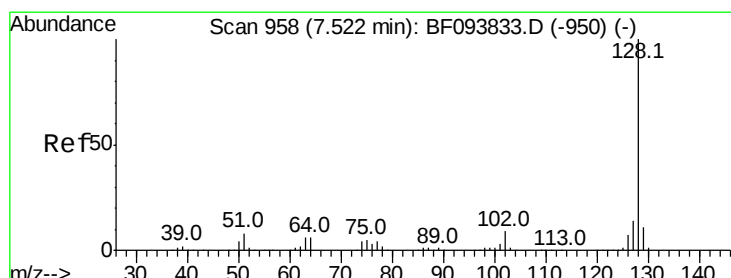
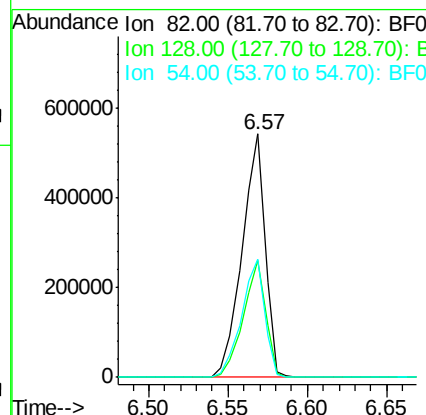
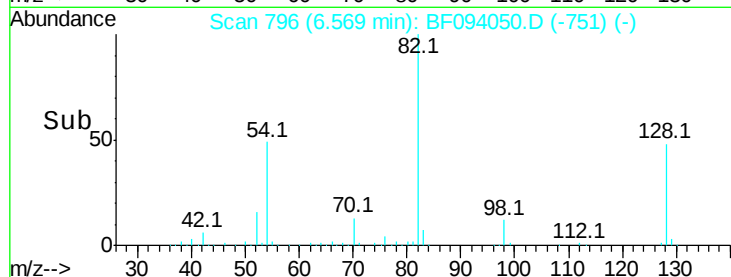
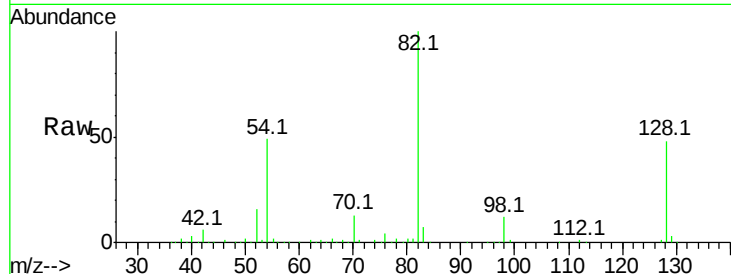
#23
Nitrobenzene-d5
Concen: 50.00 ng
RT: 6.57 min Scan# 796
Delta R.T. -0.04 min
Lab File: BF094050.D
Acq: 30 Mar 2017 7:40

Instrument :
BNA_F
ClientSampleId :
E2-P12-BASE

Tot Ion	Ratio	Lower	Upper
82	100		
128	47.8	34.0	51.0
54	48.6	42.2	63.2

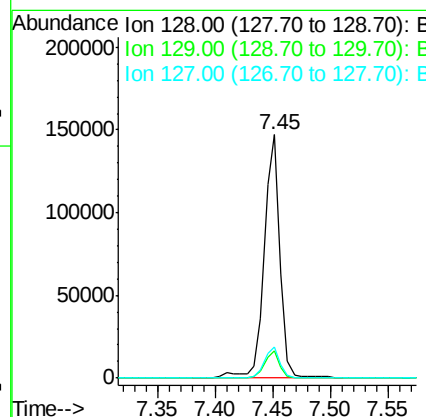
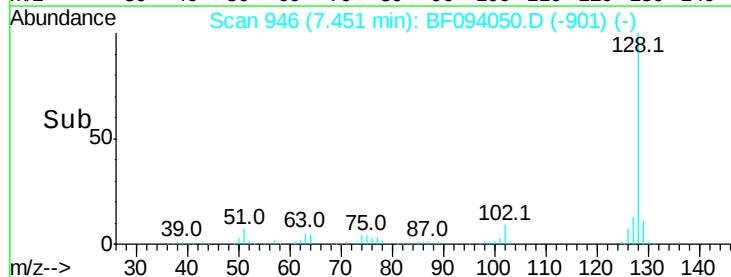
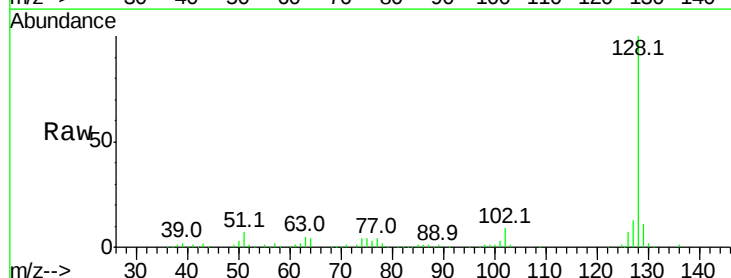
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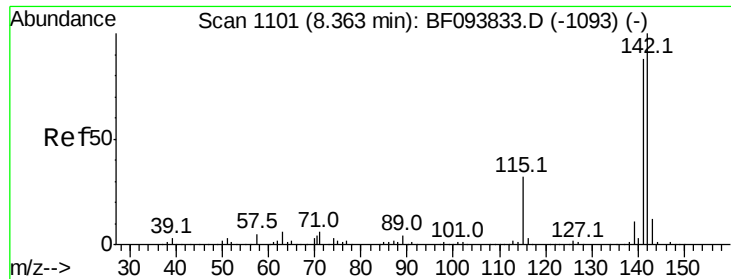
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#31
Naphthalene
Concen: 4.69 ng
RT: 7.45 min Scan# 946
Delta R.T. -0.04 min
Lab File: BF094050.D
Acq: 30 Mar 2017 7:40

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.4	9.0	13.6
127	12.6	10.8	16.2





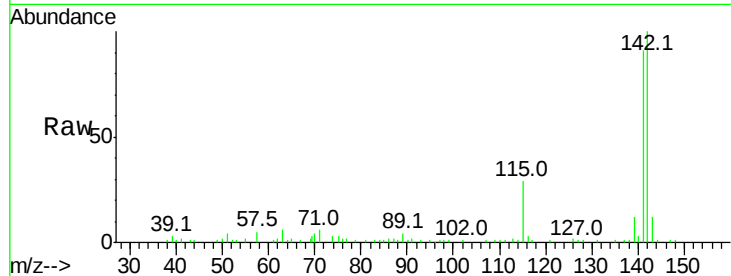
#37
2-Methylnaphthalene
Concen: 2.82 ng
RT: 8.29 min Scan# 1089
Delta R.T. -0.04 min
Lab File: BF094050.D
Acq: 30 Mar 2017 7:40

Instrument :
BNA_F
ClientSampleId :
E2-P12-BASE

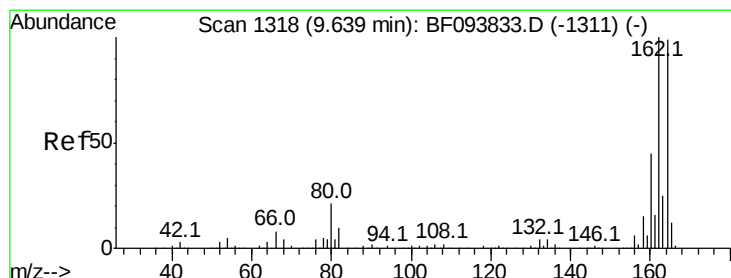
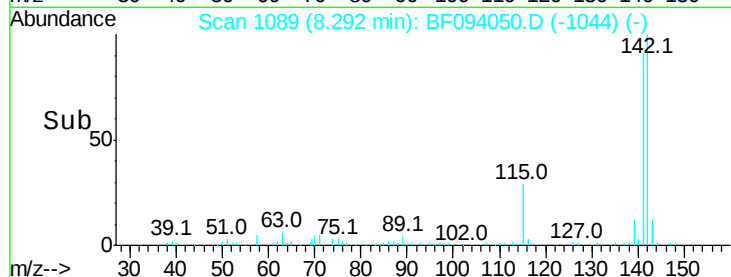
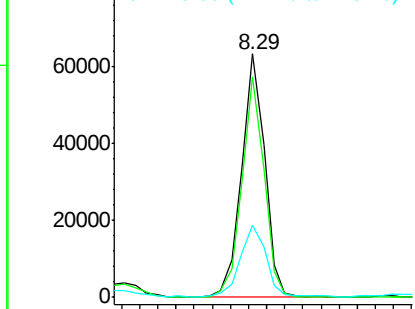
Tot Ion	Ratio	Lower	Upper
142	100		
141	90.6	71.3	106.9
115	29.4	27.1	40.7

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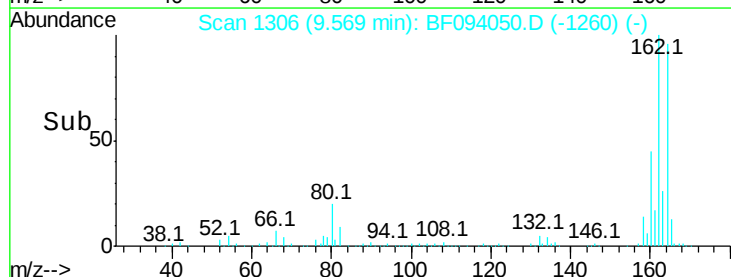
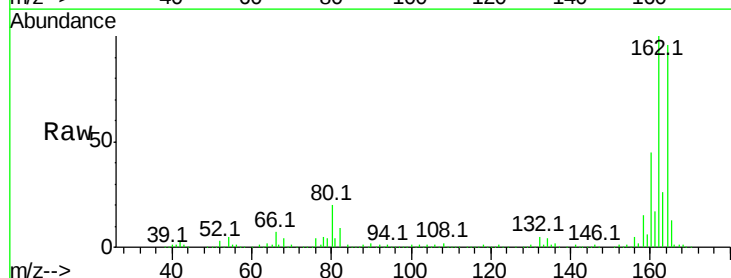
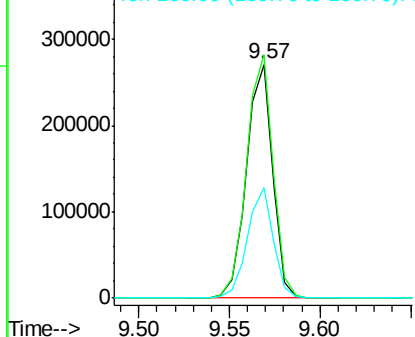
Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E

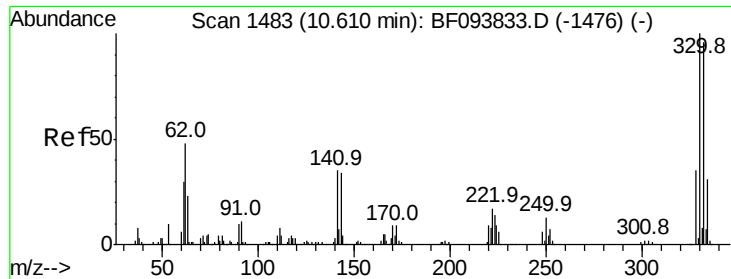


#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.57 min Scan# 1306
Delta R.T. -0.03 min
Lab File: BF094050.D
Acq: 30 Mar 2017 7:40

Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.2	82.6	123.8
160	47.2	36.2	54.2

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





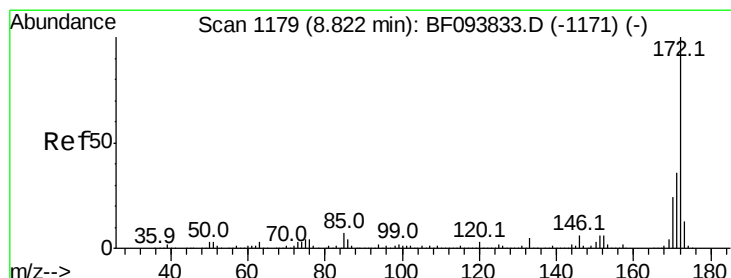
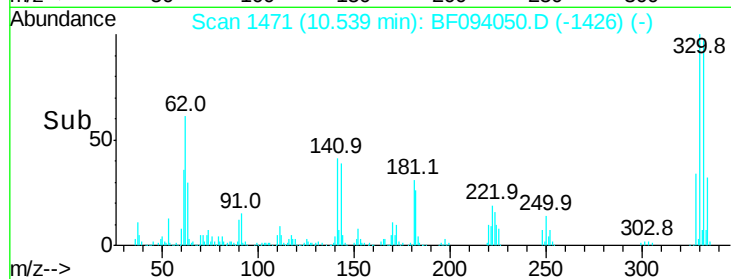
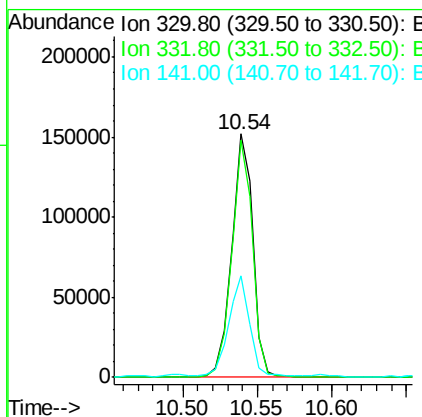
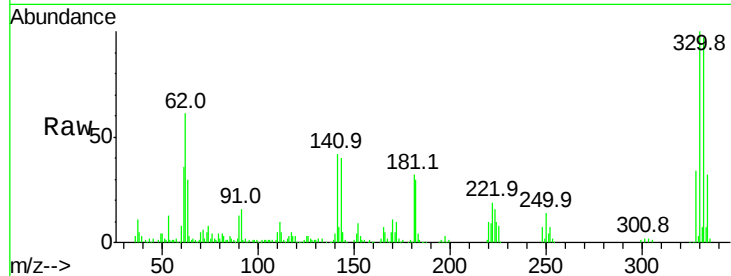
#41
 2,4,6-Tribromophenol
 Concen: 71.34 ng
 RT: 10.54 min Scan# 1471
 Delta R.T. -0.04 min
 Lab File: BF094050.D
 Acq: 30 Mar 2017 7:40

Instrument :
 BNA_F
 ClientSampleId :
 E2-P12-BASE

Tot Ion	Ratio	Lower	Upper
330	100		
332	96.0	76.6	115.0
141	40.4	31.4	47.2

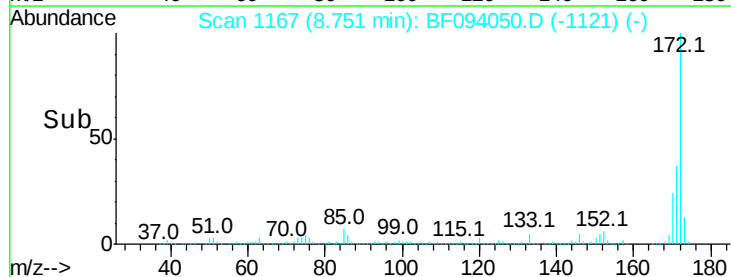
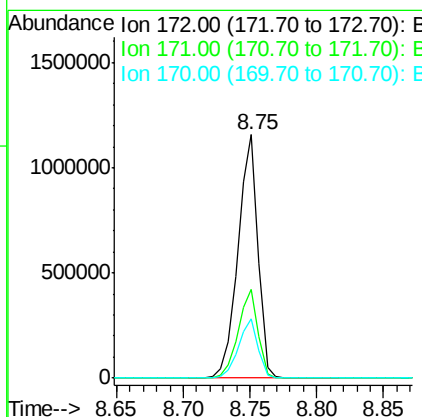
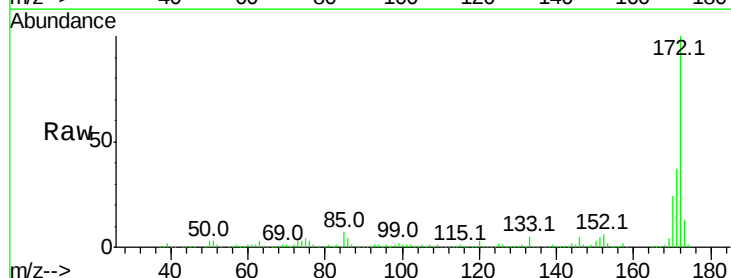
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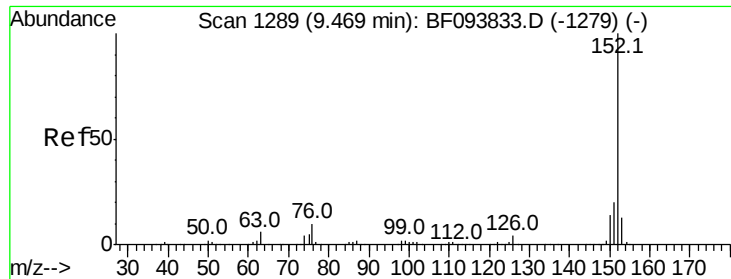
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#44
 2-Fluorobiphenyl
 Concen: 68.00 ng
 RT: 8.75 min Scan# 1167
 Delta R.T. -0.03 min
 Lab File: BF094050.D
 Acq: 30 Mar 2017 7:40

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.7	29.6	44.4
170	24.1	19.8	29.8





#48

Acenaphthylene

Concen: 16.57 ng

RT: 9.39 min Scan# 1276

Delta R.T. -0.04 min

Lab File: BF094050.D

Acq: 30 Mar 2017 7:40

Instrument :

BNA_F

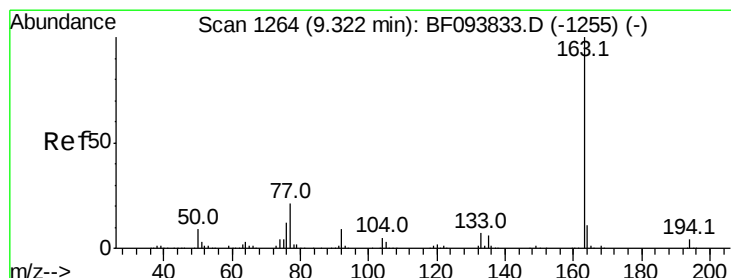
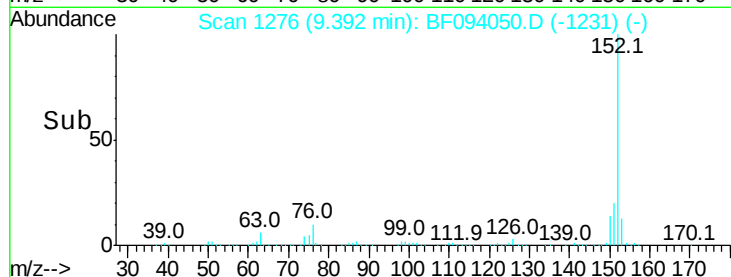
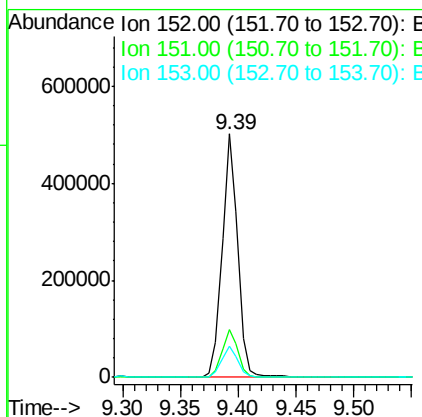
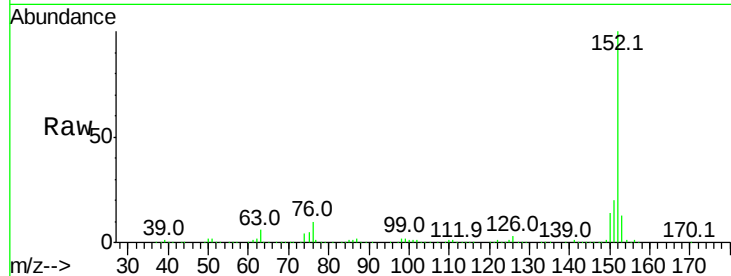
ClientSampleId :

E2-P12-BASE

Tot Ion	Ratio	Resp	Lower	Upper
152	100	469906		
151	19.6		16.8	25.2
153	12.9		10.8	16.2

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#49

Dimethylphthalate

Concen: 4.43 ng

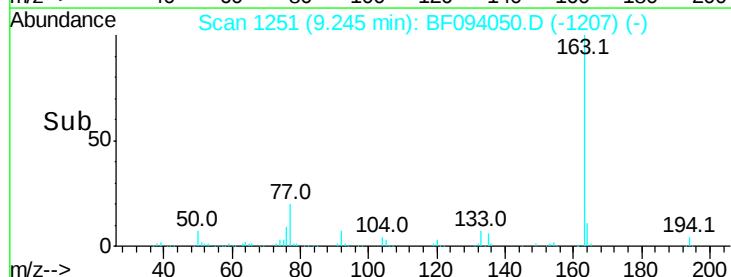
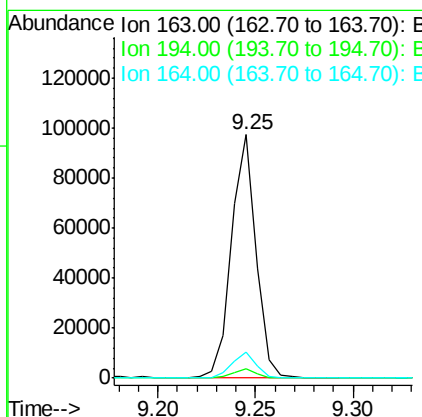
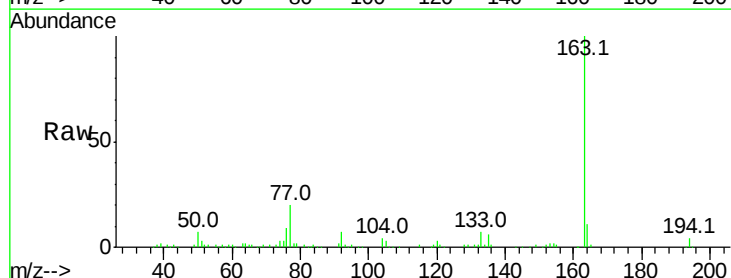
RT: 9.25 min Scan# 1251

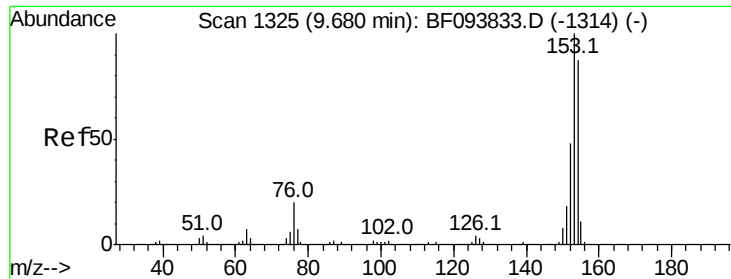
Delta R.T. -0.04 min

Lab File: BF094050.D

Acq: 30 Mar 2017 7:40

Tgt Ion	Ratio	Resp	Lower	Upper
163	100	85073		
194	3.6		2.6	4.0
164	10.5		8.4	12.6





#51

Acenaphthene

Concen: 5.99 ng

RT: 9.60 min Scan# 1312

Delta R.T. -0.04 min

Lab File: BF094050.D

Acq: 30 Mar 2017 7:40

Instrument :

BNA_F

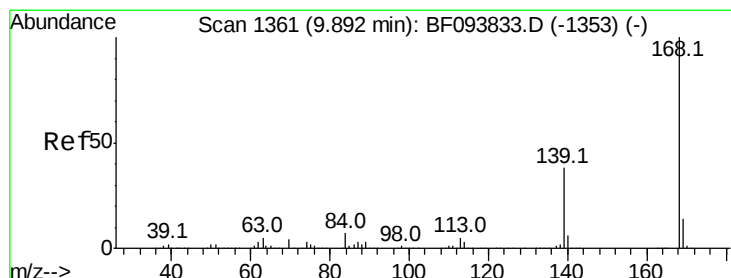
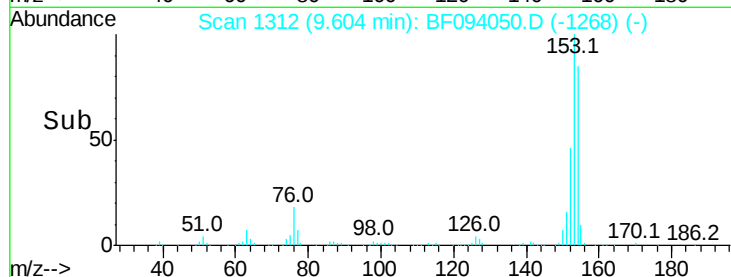
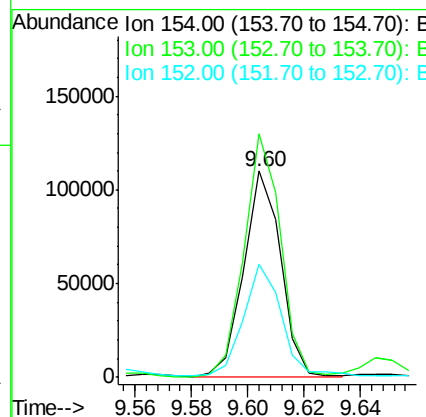
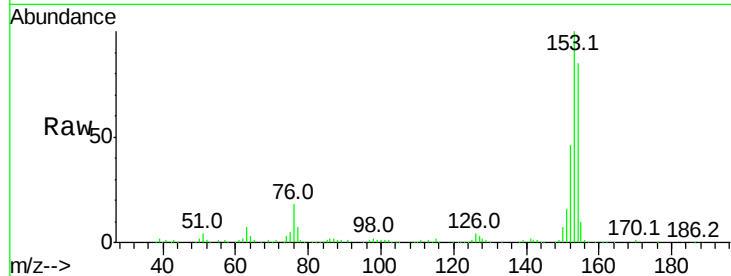
ClientSampleId :

E2-P12-BASE

Tot Ion:	154	Resp:	99142
Ion Ratio	Lower	Upper	
154	100		
153	118.1	90.5	135.7
152	54.7	43.6	65.4

Manual Integrations
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3/30/2017 2:32:45 PM



#54

Dibenzofuran

Concen: 4.87 ng

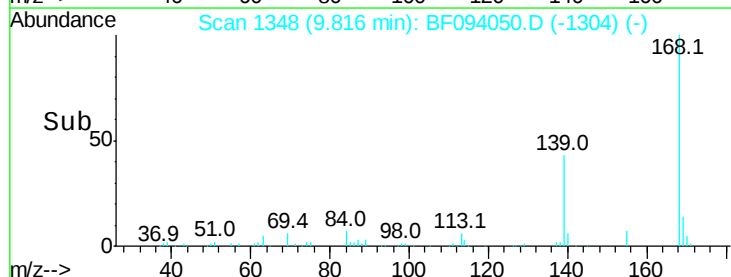
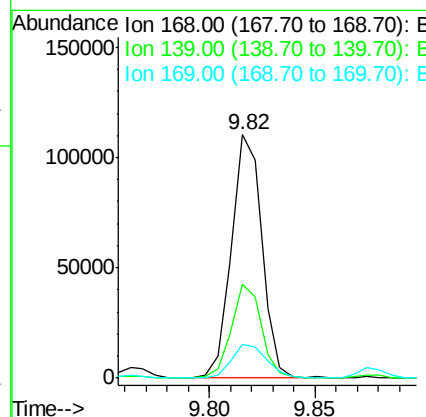
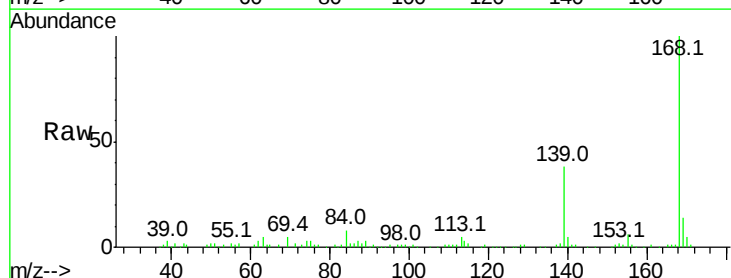
RT: 9.82 min Scan# 1348

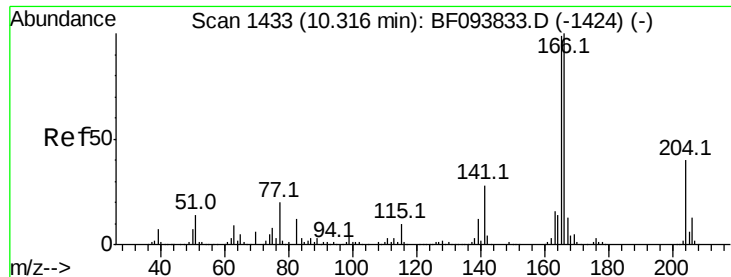
Delta R.T. -0.04 min

Lab File: BF094050.D

Acq: 30 Mar 2017 7:40

Tgt Ion:	168	Resp:	109660
Ion Ratio	Lower	Upper	
168	100		
139	38.5	30.6	45.8
169	13.8	10.8	16.2





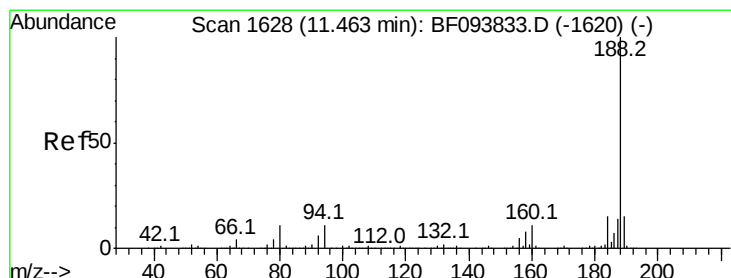
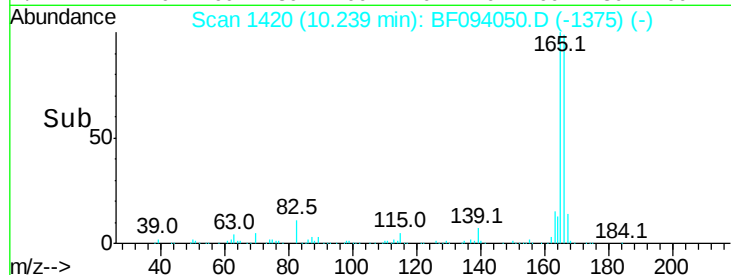
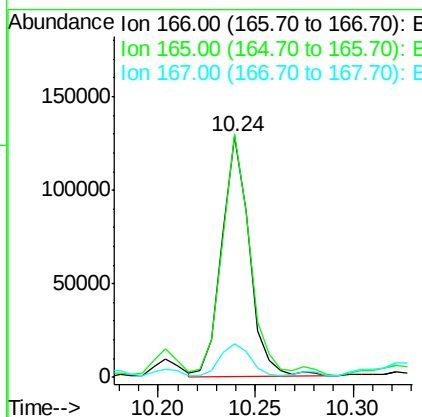
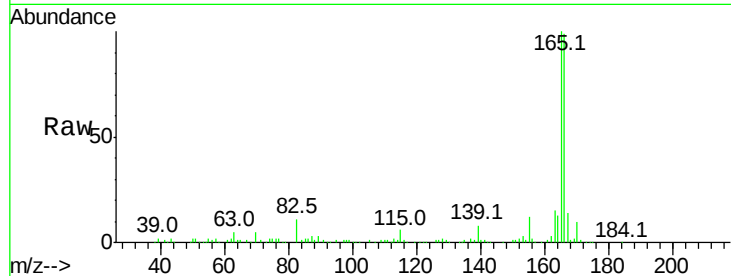
#57
Fluorene
 Concen: 6.76 ng
 RT: 10.24 min Scan# 1420
 Delta R.T. -0.04 min
 Lab File: BF094050.D
 Acq: 30 Mar 2017 7:40

Instrument :
 BNA_F
 ClientSampleId :
 E2-P12-BASE

Tot Ion	Ratio	Resp	Lower	Upper
166	100			
165	101.2	78.8	118.2	
167	14.2	10.6	16.0	

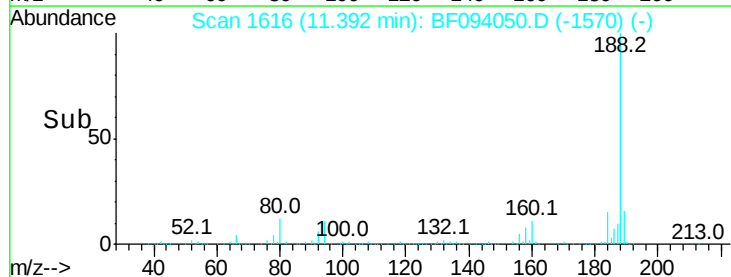
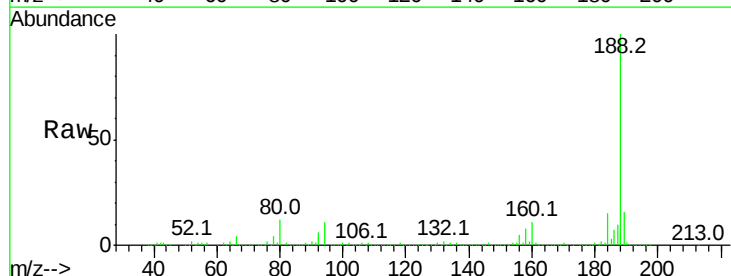
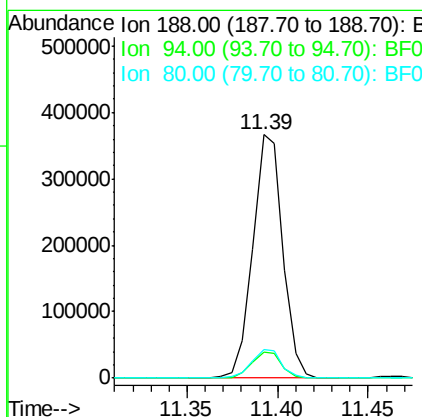
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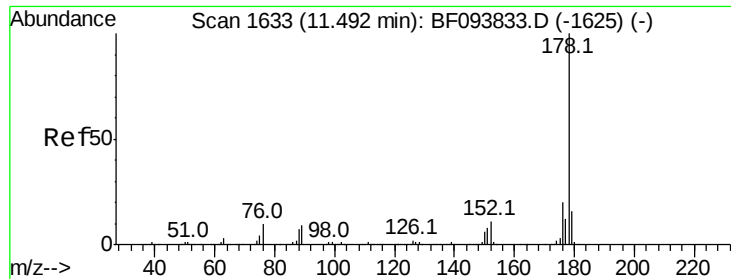
mohammad
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#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.39 min Scan# 1616
 Delta R.T. -0.03 min
 Lab File: BF094050.D
 Acq: 30 Mar 2017 7:40

Tgt Ion	Ratio	Resp	Lower	Upper
188	100			
94	10.8	9.4	14.2	
80	12.0	10.2	15.2	





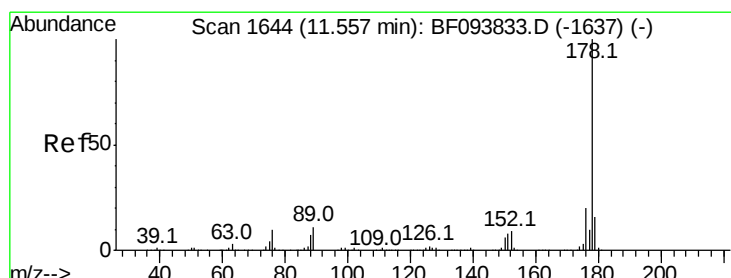
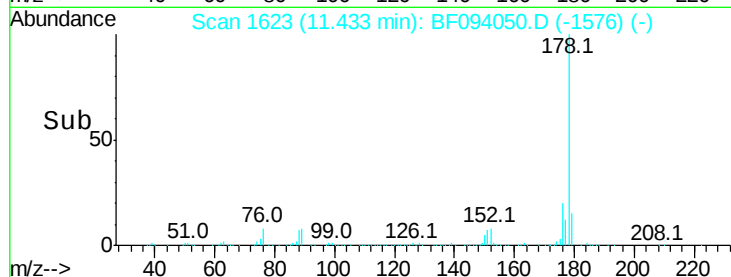
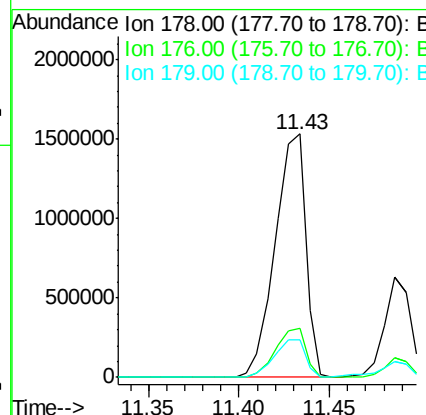
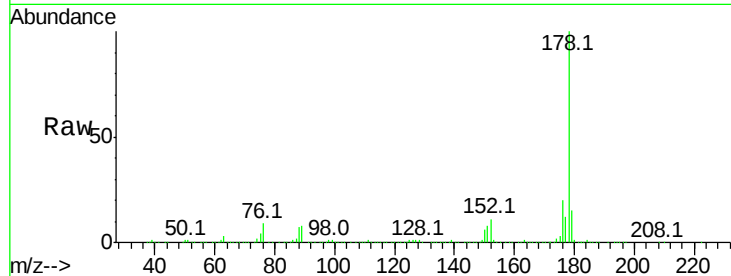
#70
Phenanthrene
Concen: 77.81 ng
RT: 11.43 min Scan# 1623
Delta R.T. -0.02 min
Lab File: BF094050.D
Acq: 30 Mar 2017 7:40

Instrument :
BNA_F
ClientSampleId :
E2-P12-BASE

Tot Ion:178 Resp: 1814009
Ion Ratio Lower Upper
178 100
176 19.9 16.2 24.4
179 15.4 12.6 19.0

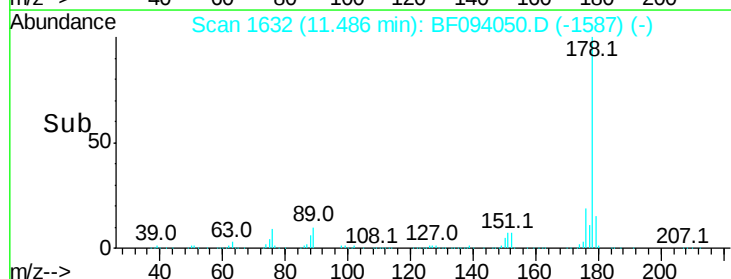
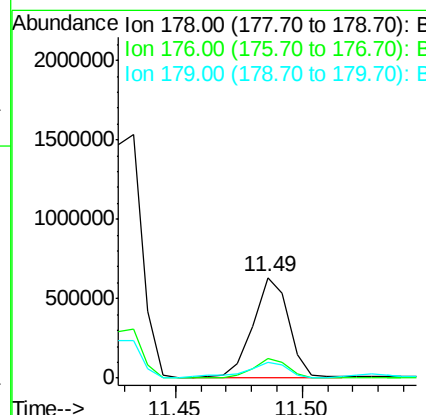
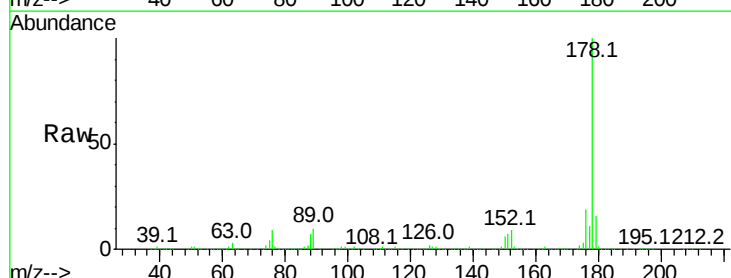
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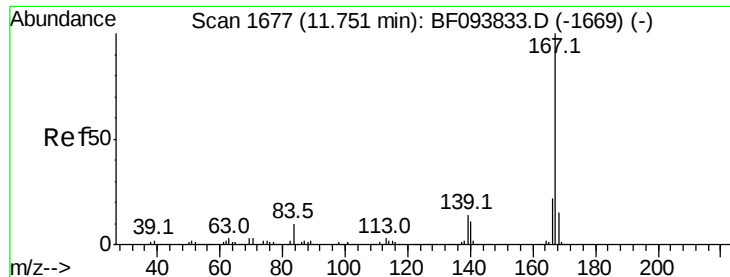
mohammad
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#71
Anthracene
Concen: 25.70 ng
RT: 11.49 min Scan# 1632
Delta R.T. -0.04 min
Lab File: BF094050.D
Acq: 30 Mar 2017 7:40

Tgt Ion:178 Resp: 616860
Ion Ratio Lower Upper
178 100
176 19.0 15.8 23.8
179 15.5 12.7 19.1





#72

Carbazole

Concen: 8.32 ng

RT: 11.69 min Scan# 1666

Delta R.T. -0.04 min

Lab File: BF094050.D

Acq: 30 Mar 2017 7:40

Instrument :

BNA_F

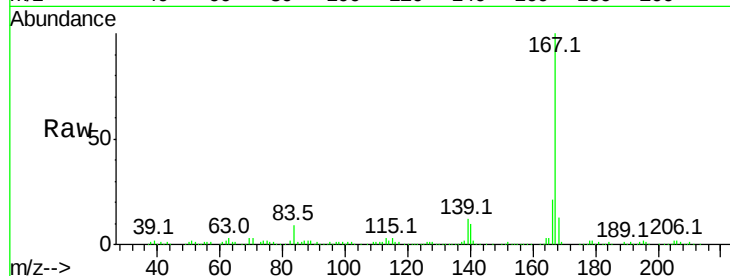
ClientSampleId :

E2-P12-BASE

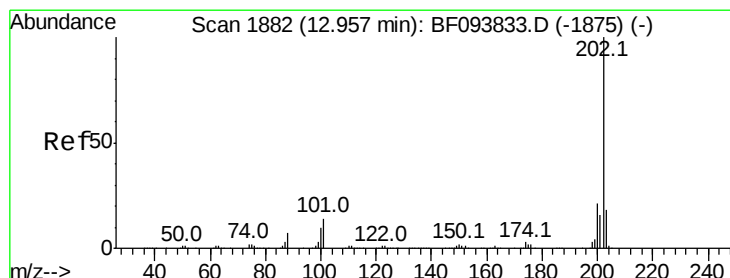
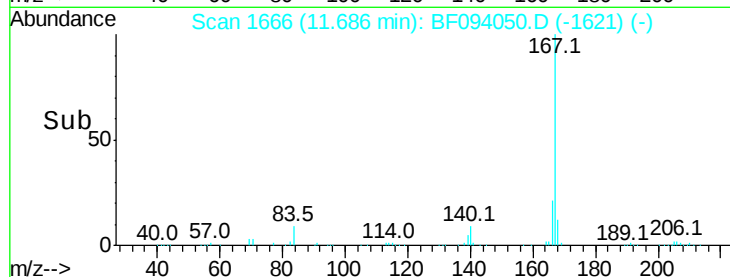
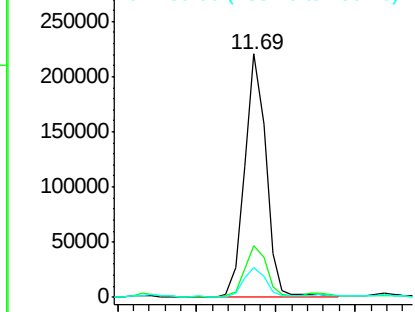
Tot Ion:	167	Resp:	204695
Ion Ratio	Lower	Upper	
167	100		
166	21.4	18.1	27.1
139	12.5	11.7	17.5

Manual Integrations
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Abundance Ion 167.00 (166.70 to 167.70): E
Ion 166.00 (165.70 to 166.70): E
Ion 139.00 (138.70 to 139.70): E



#74

Fluoranthene

Concen: 157.25 ng

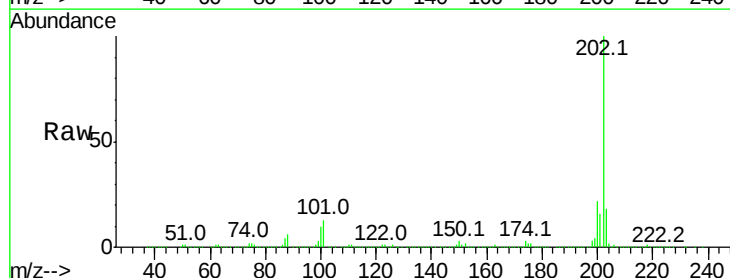
RT: 12.91 min Scan# 1874

Delta R.T. -0.01 min

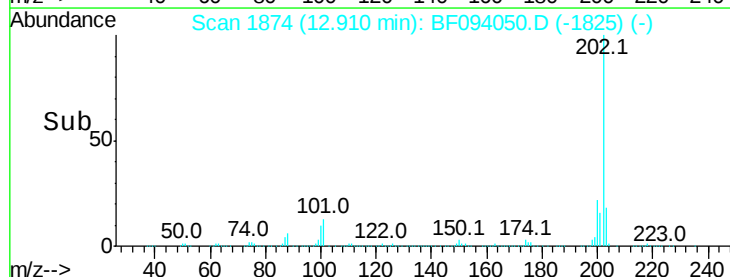
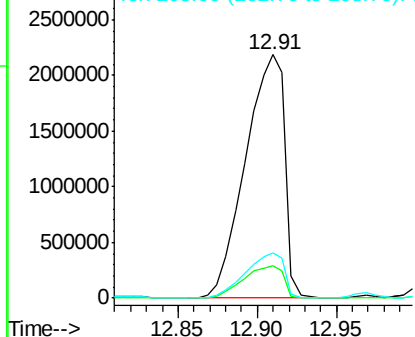
Lab File: BF094050.D

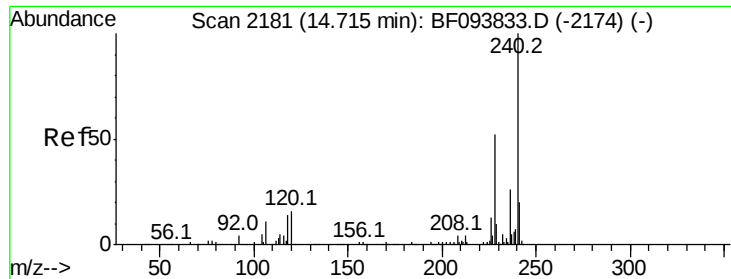
Acq: 30 Mar 2017 7:40

Tgt Ion:	202	Resp:	3754098
Ion Ratio	Lower	Upper	
202	100		
101	13.3	0.0	33.2
203	18.3	0.0	38.1



Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E





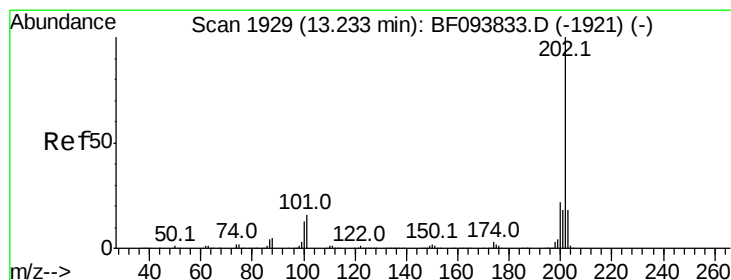
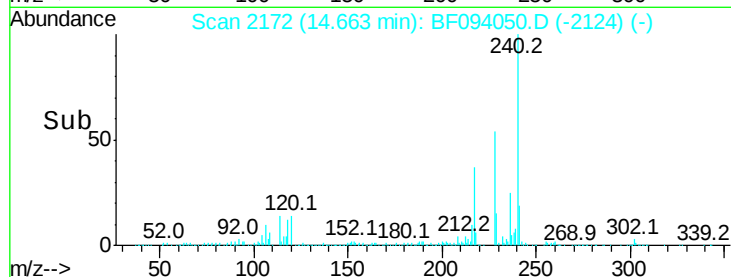
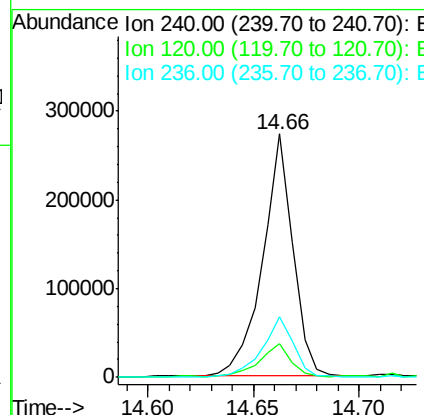
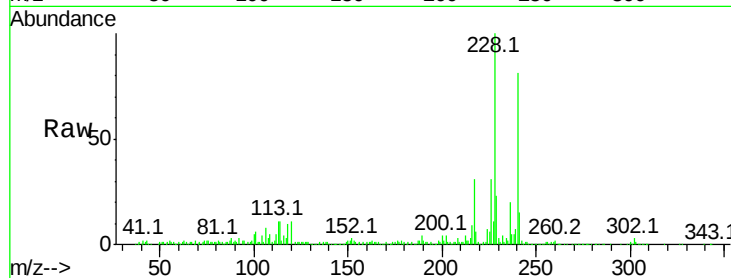
#75
Chrysene-d12
Concen: 20.00 ng
RT: 14.66 min Scan# 2172
Delta R.T. -0.02 min
Lab File: BF094050.D
Acq: 30 Mar 2017 7:40

Instrument :
BNA_F
ClientSampleId :
E2-P12-BASE

Tot Ion	Ratio	Lower	Upper
240	100		
120	14.1	5.8	8.8#
236	25.1	20.5	30.7

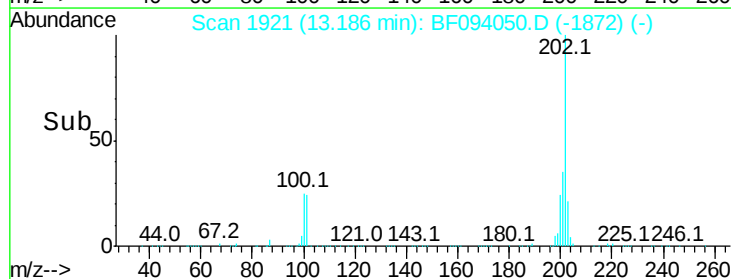
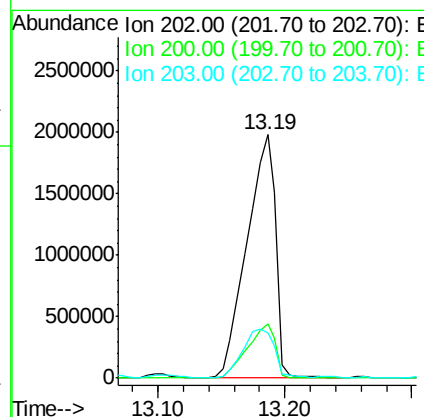
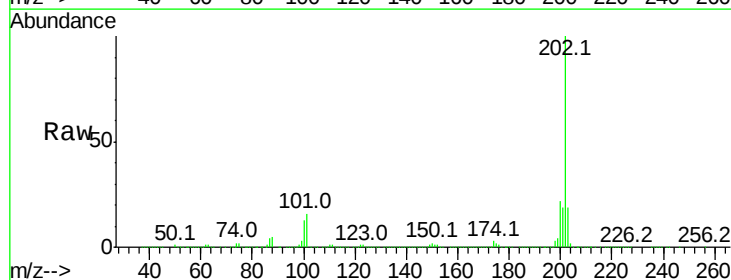
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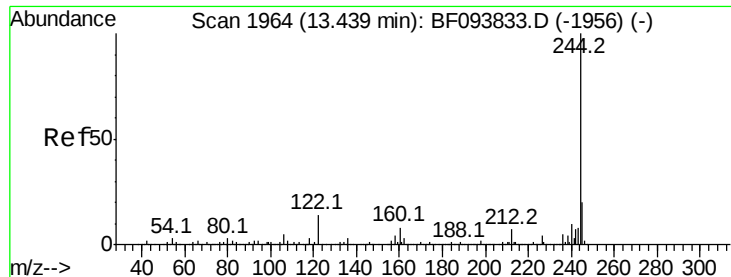
mohammad
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#77
Pyrene
Concen: 158.24 ng
RT: 13.19 min Scan# 1921
Delta R.T. -0.01 min
Lab File: BF094050.D
Acq: 30 Mar 2017 7:40

Tgt Ion	Ratio	Lower	Upper
202	100		
200	22.2	17.6	26.4
203	18.5	14.4	21.6





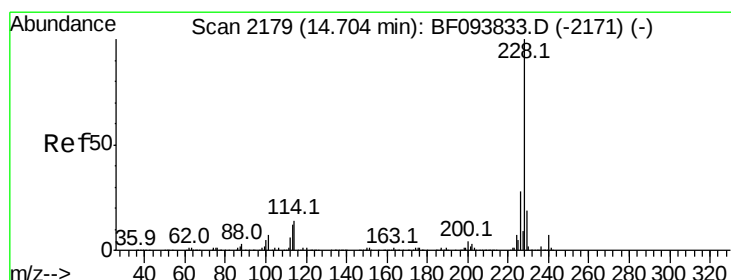
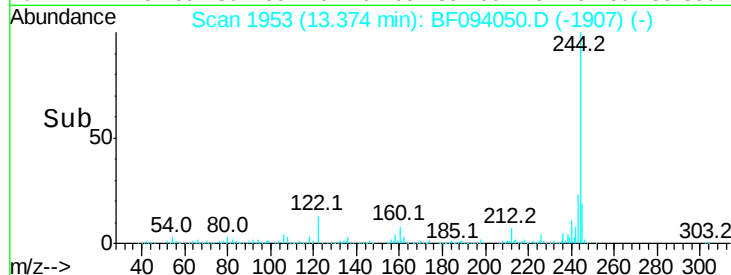
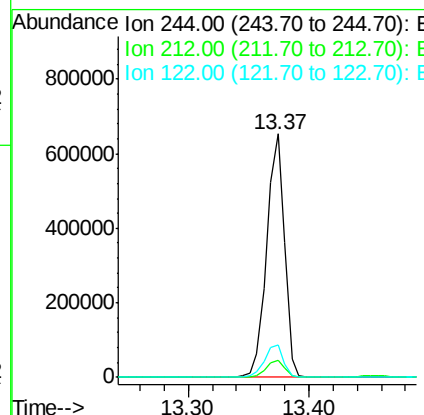
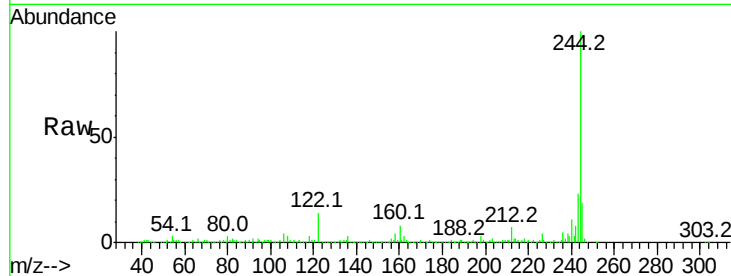
#78
 Terphenyl-d14
 Concen: 55.60 ng
 RT: 13.37 min Scan# 1953
 Delta R.T. -0.03 min
 Lab File: BF094050.D
 Acq: 30 Mar 2017 7:40

Instrument :
 BNA_F
 ClientSampleId :
 E2-P12-BASE

Tot Ion	Ratio	Lower	Upper
244	100		
212	7.1	6.0	9.0
122	13.5	10.3	15.5

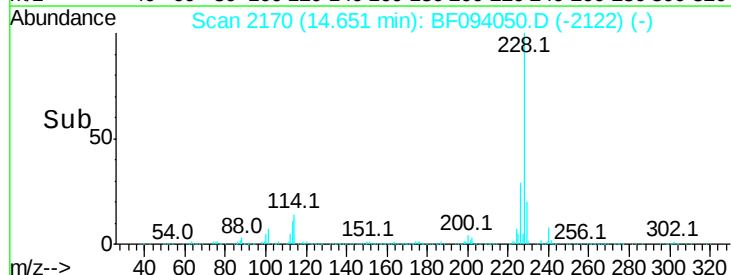
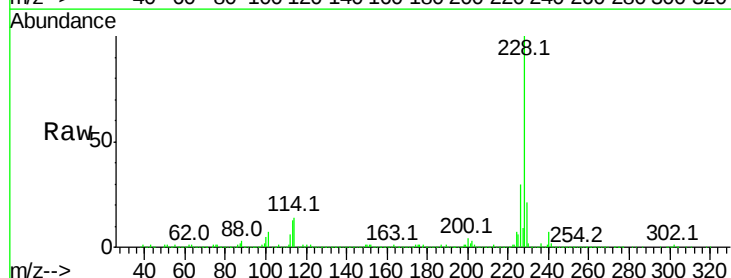
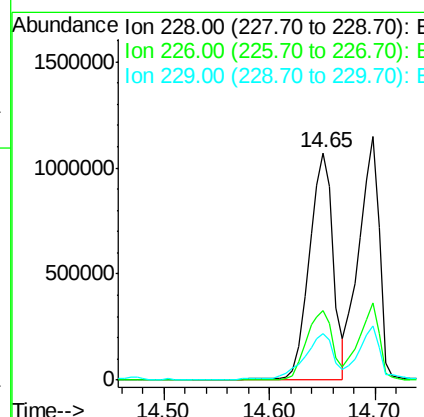
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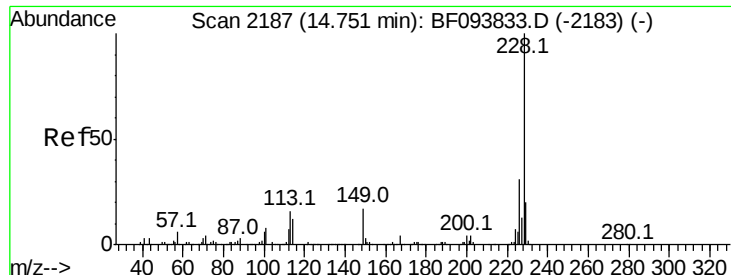
mohammad
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#80
 Benzo(a)anthracene
 Concen: 105.96 ng
 RT: 14.65 min Scan# 2170
 Delta R.T. -0.02 min
 Lab File: BF094050.D
 Acq: 30 Mar 2017 7:40

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.4	22.6	33.8
229	20.5	16.3	24.5





#82

Chrysene

Concen: 104.10 ng

RT: 14.70 min Scan# 2178

Delta R.T. -0.02 min

Lab File: BF094050.D

Acq: 30 Mar 2017 7:40

Instrument :

BNA_F

ClientSampleId :

E2-P12-BASE

Tot Ion:228 Resp: 1532020

Ion Ratio Lower Upper

228 100

226 31.7 24.9 37.3

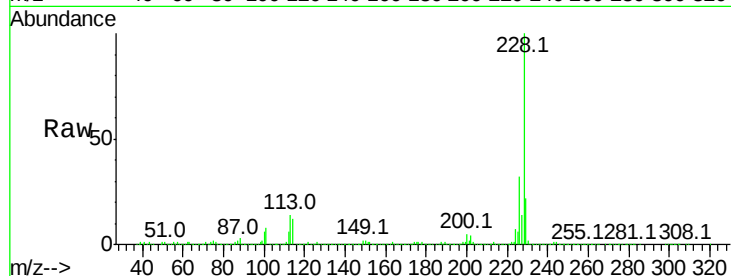
229 22.2 15.8 23.6

Manual Integrations

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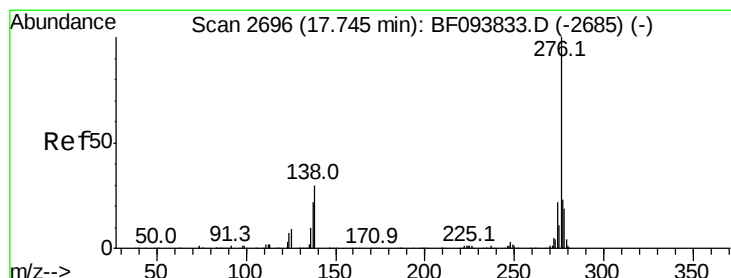
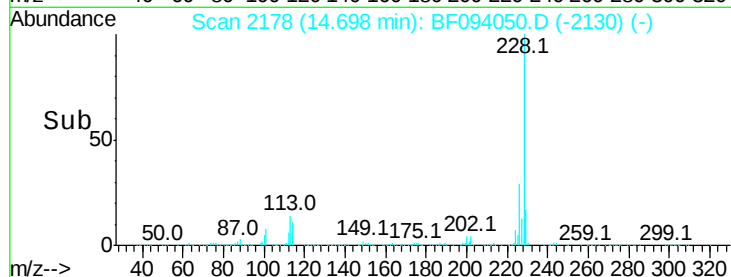
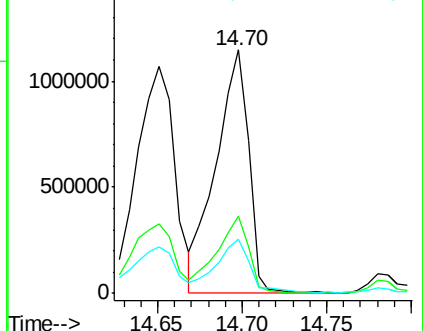
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Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#85

Indeno(1,2,3-cd)pyrene

Concen: 47.99 ng

RT: 17.67 min Scan# 2683

Delta R.T. -0.02 min

Lab File: BF094050.D

Acq: 30 Mar 2017 7:40

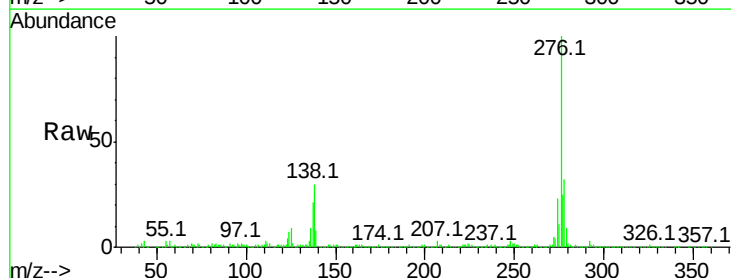
Tgt Ion:276 Resp: 611695

Ion Ratio Lower Upper

276 100

138 31.2 27.8 41.6

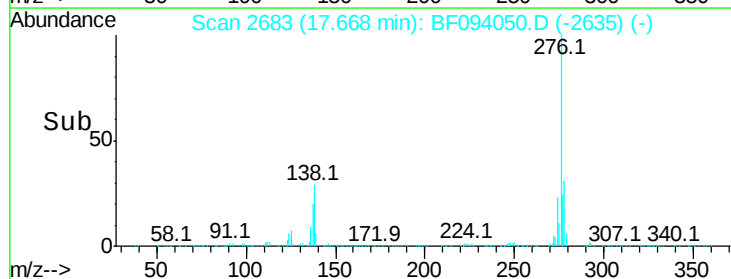
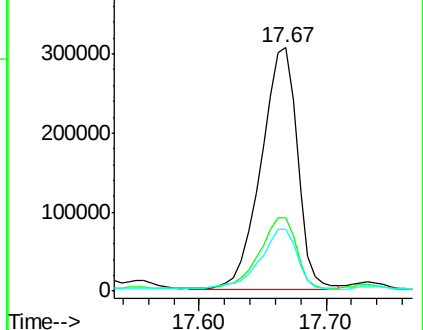
277 25.6 20.2 30.4

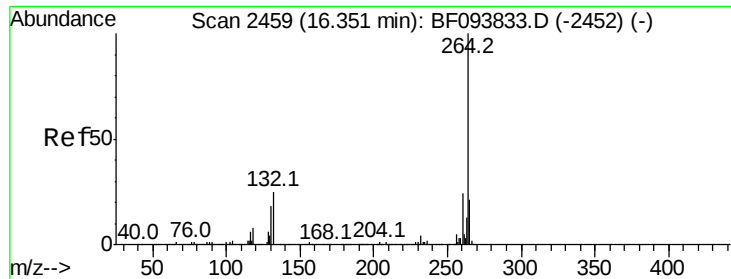


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





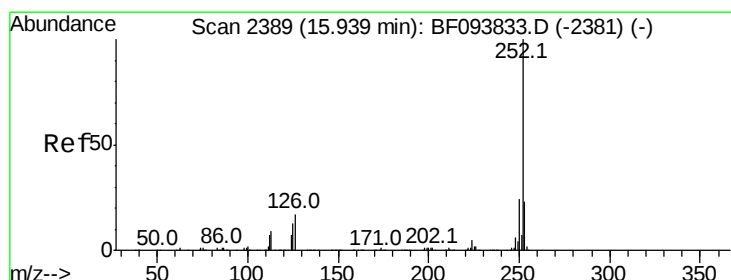
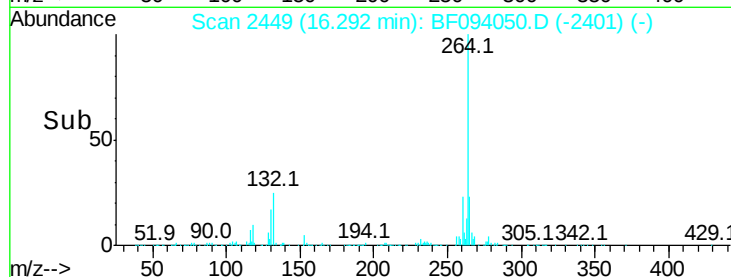
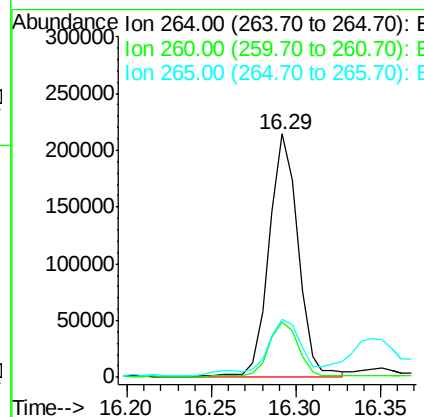
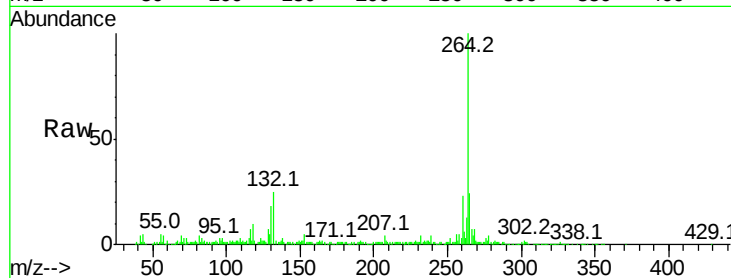
#86
Pervlene-d12
Concen: 20.00 ng
RT: 16.29 min Scan# 2449
Delta R.T. -0.02 min
Lab File: BF094050.D
Acq: 30 Mar 2017 7:40

Instrument :
BNA_F
ClientSampleId :
E2-P12-BASE

Tot Ion	Ratio	Lower	Upper
264	100		
260	22.9	19.5	29.3
265	23.6	17.2	25.8

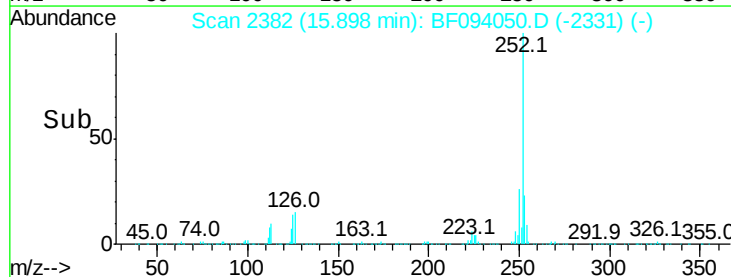
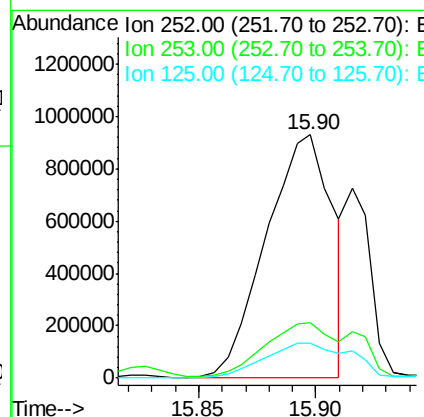
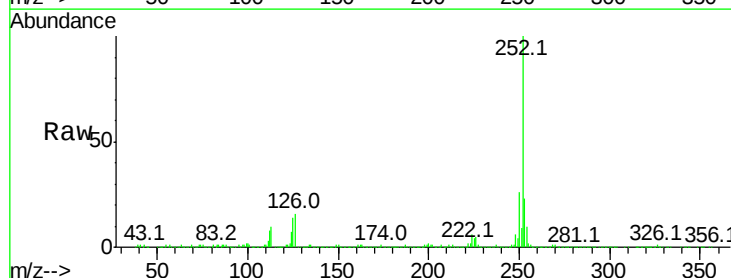
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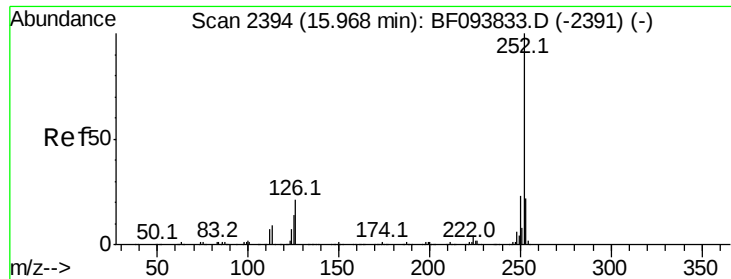
mohammad
3/30/2017 2:32:45 PM



#87
Benzo(b)fluoranthene
Concen: 117.74 ng m
RT: 15.90 min Scan# 2382
Delta R.T. 0.00 min
Lab File: BF094050.D
Acq: 30 Mar 2017 7:40

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	18.1	27.1
125	14.4	9.8	14.8





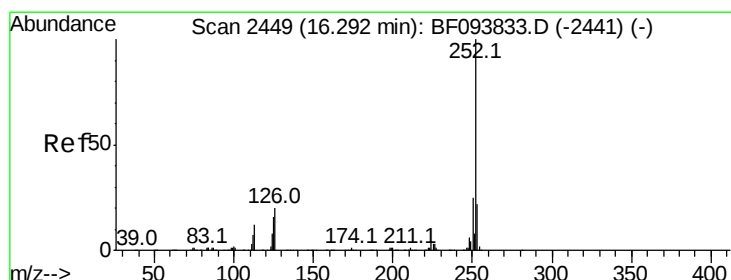
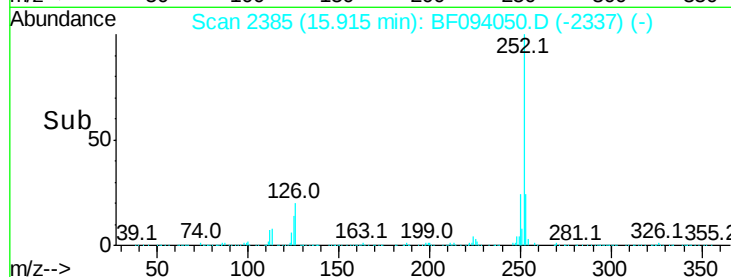
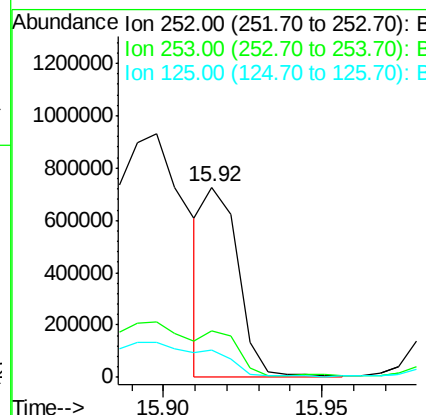
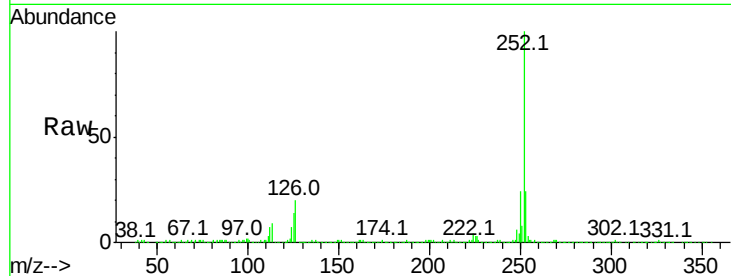
#88
Benzo(k)fluoranthene
Concen: 35.85 ng m
RT: 15.92 min Scan# 2385
Delta R.T. -0.02 min
Lab File: BF094050.D
Acq: 30 Mar 2017 7:40

Instrument :
BNA_F
ClientSampleId :
E2-P12-BASE

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.1	18.4	27.6
125	14.3	13.1	19.7

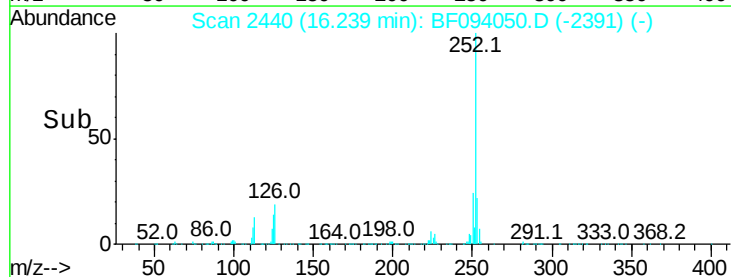
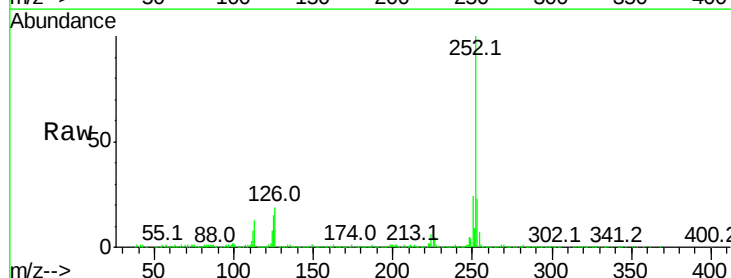
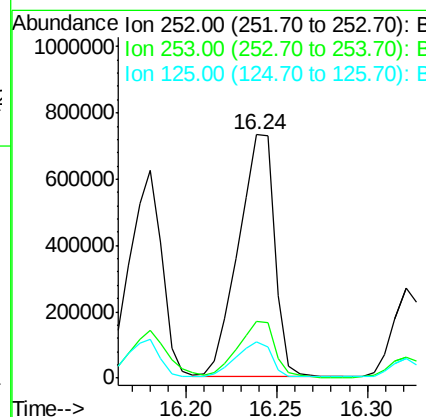
Manual Integrations
APPROVED

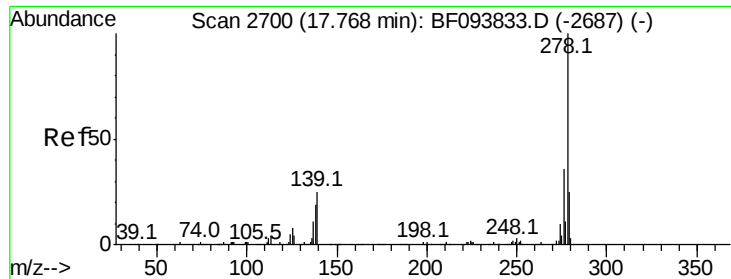
mohammad
3/30/2017 2:32:45 PM



#89
Benzo(a)pyrene
Concen: 70.73 ng
RT: 16.24 min Scan# 2440
Delta R.T. -0.01 min
Lab File: BF094050.D
Acq: 30 Mar 2017 7:40

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.5	26.3
125	14.7	11.0	16.4





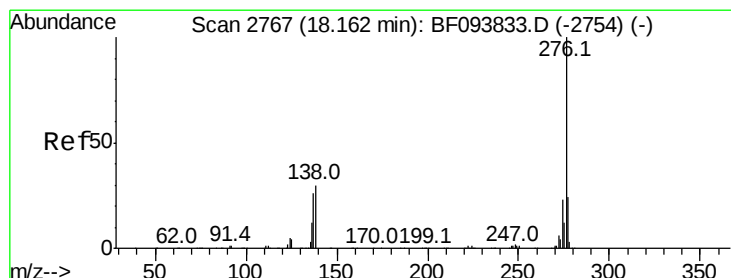
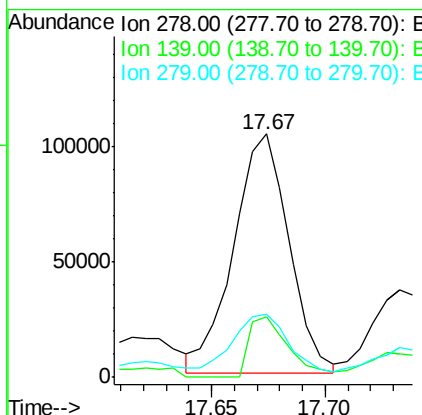
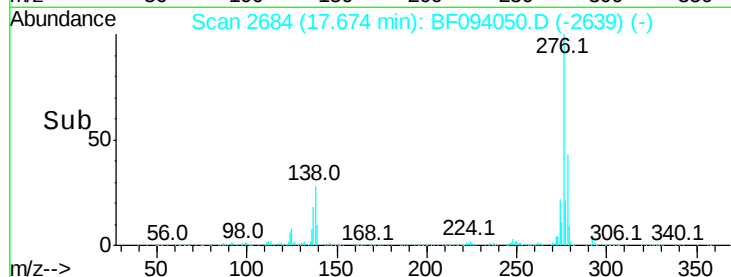
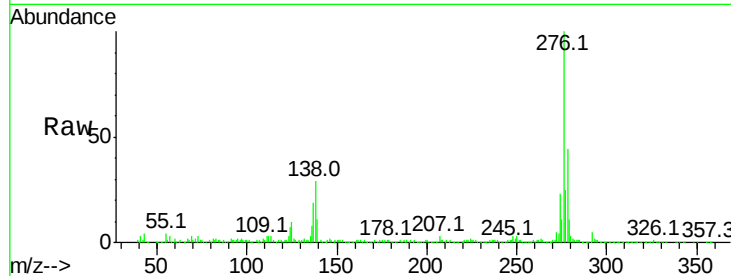
#90
Dibenzo(a,h)anthracene
Concen: 14.46 ng m
RT: 17.67 min Scan# 2684
Delta R.T. -0.04 min
Lab File: BF094050.D
Acq: 30 Mar 2017 7:40

Instrument :
BNA_F
ClientSampleId :
E2-P12-BASE

Tot Ion	Ratio	Lower	Upper
278	100		
139	24.9	16.6	24.8#
279	26.0	19.3	28.9

Manual Integrations
APPROVED

mohammad
3/30/2017 2:32:45 PM



#91
Benzo(g,h,i)perylene
Concen: 42.36 ng
RT: 18.07 min Scan# 2751
Delta R.T. -0.03 min
Lab File: BF094050.D
Acq: 30 Mar 2017 7:40

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.5	18.6	28.0
138	31.1	25.4	38.0

