

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032917\
 Data File : BF094056.D
 Acq On : 30 Mar 2017 10:24
 Operator : SJ/MA
 Sample : I2443-10
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E2-AA9-ESW

Manual Integrations
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Quant Time: Mar 30 11:52:43 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	5.93	152	154615	20.00	ng	-0.02
21) Naphthalene-d8	7.43	136	564856	20.00	ng	-0.02
38) Acenaphthene-d10	9.57	164	232842	20.00	ng	-0.02
63) Phenanthrene-d10	11.40	188	339218	20.00	ng	-0.02
75) Chrysene-d12	14.70	240	235483	20.00	ng	0.02
86) Perylene-d12	16.33	264	180256	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	4.48	112	1275154	139.30	ng	0.00
7) Phenol-d6	5.56	99	1538716	135.87	ng	0.00
23) Nitrobenzene-d5	6.58	82	666802	67.37	ng	-0.02
41) 2,4,6-Tribromophenol	10.56	330	250316	136.04	ng	-0.02
44) 2-Fluorobiphenyl	8.76	172	1553894	101.79	ng	-0.02
78) Terphenyl-d14	13.41	244	709200	67.51	ng	0.00
Target Compounds						Qvalue
20) 3+4-Methylphenols	6.43	107	30361	2.91	ng	# 57
31) Naphthalene	7.46	128	1567801	57.72	ng	99
37) 2-Methylnaphthalene	8.30	142	684433	37.80	ng	98
45) 1,1'-Biphenyl	8.87	154	115613	6.16	ng	96
49) Dimethylphthalate	9.25	163	101588	6.14	ng	100
51) Acenaphthene	9.62	154	118826	8.33	ng	98
54) Dibenzofuran	9.83	168	197525	10.18	ng	99
57) Fluorene	10.25	166	144818	9.00	ng	98
70) Phenanthrene	11.43	178	544814	28.87	ng	99
71) Anthracene	11.50	178	71719	3.69	ng	97
72) Carbazole	11.71	167	59321	2.98	ng	# 92
74) Fluoranthene	12.93	202	266317	13.78	ng	95
77) Pvrene	13.20	202	132681	7.76	ng	# 93
80) Benzo(a)anthracene	14.69	228	99304	7.23	ng	# 89
82) Chrysene	14.73	228	117953	9.26	ng	# 94
85) Indeno(1,2,3-cd)pyrene	17.70	276	29610	2.68	ng	# 93
87) Benzo(b)fluoranthene	15.92	252	82783m	7.49	ng	
88) Benzo(k)fluoranthene	15.94	252	21840m	2.02	ng	
89) Benzo(a)pvrene	16.26	252	54417	5.35	ng	# 47
91) Benzo(a,h,i)perylene	18.10	276	31135	3.59	ng	# 71

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

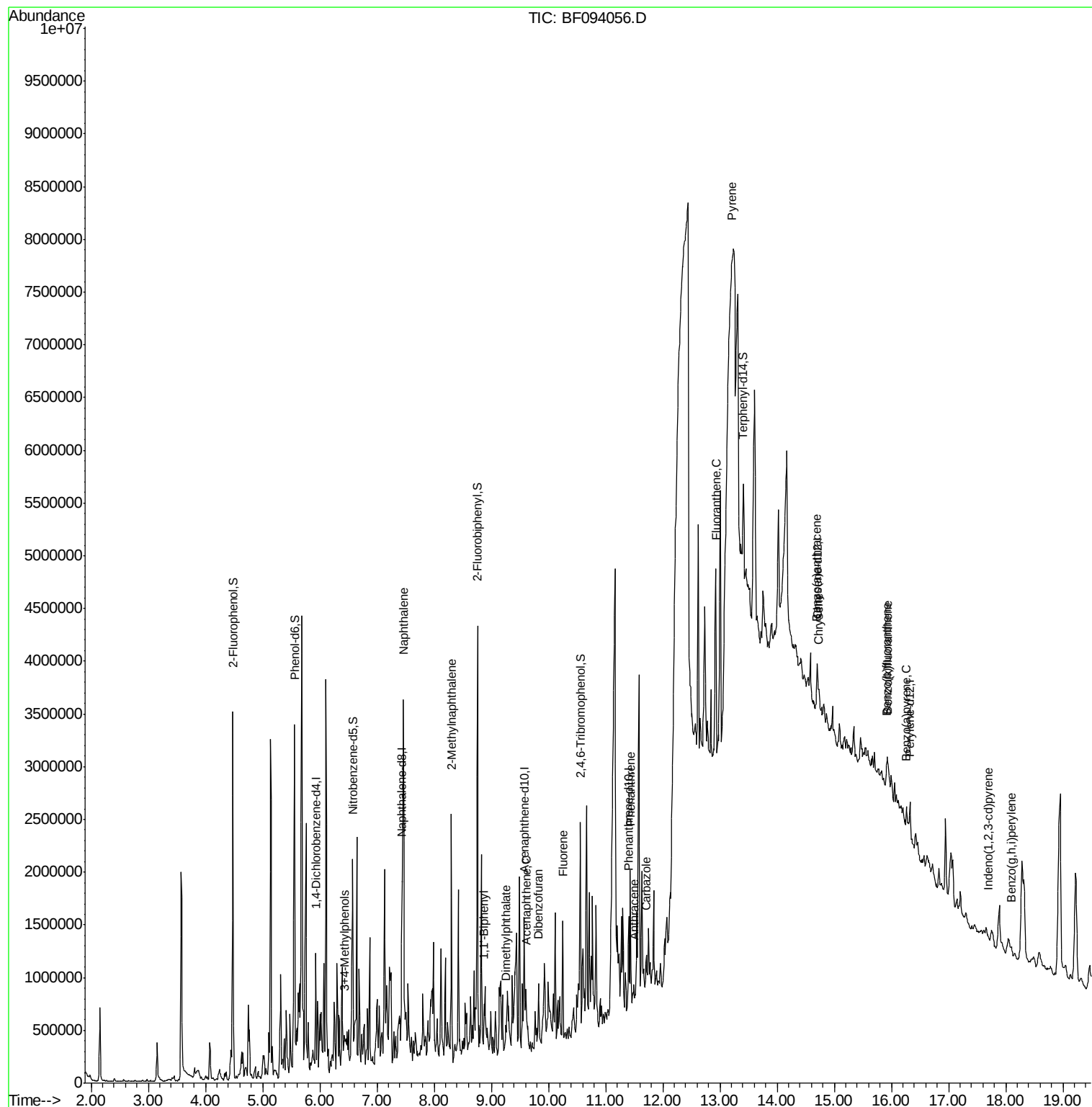
Data Path : Z:\HPCHEM1\BNA F\DATA\BF032917\
Data File : BF094056.D
Acq On : 30 Mar 2017 10:24
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Sample : I2443-10
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ALS Vial : 23 Sample Multiplier: 1

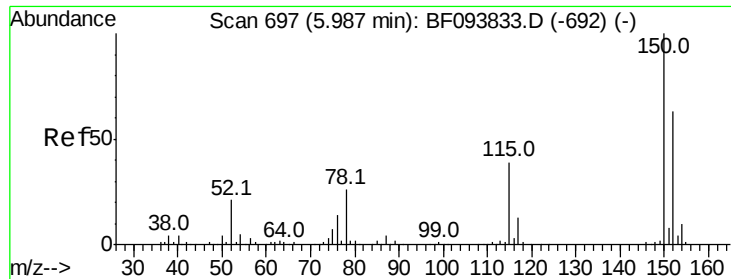
Instrument :
BNA_F
ClientSampleID :
E2-AA9-ESW

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#1

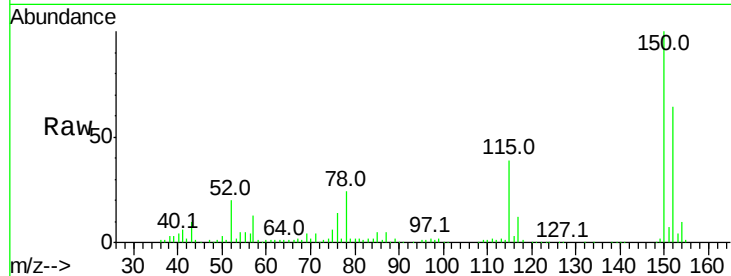
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 5.93 min Scan# 687
Delta R.T. -0.02 min
Lab File: BF094056.D
Acq: 30 Mar 2017 10:24

Instrument :
BNA_F
ClientSampleId :
E2-AA9-ESW

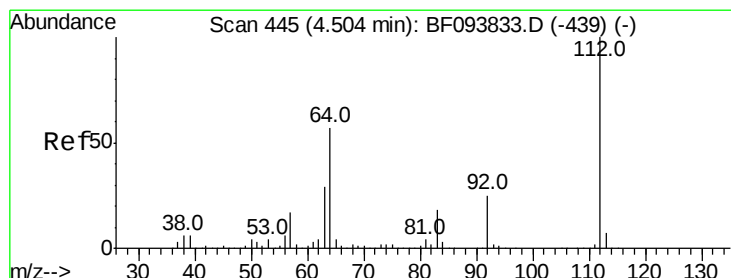
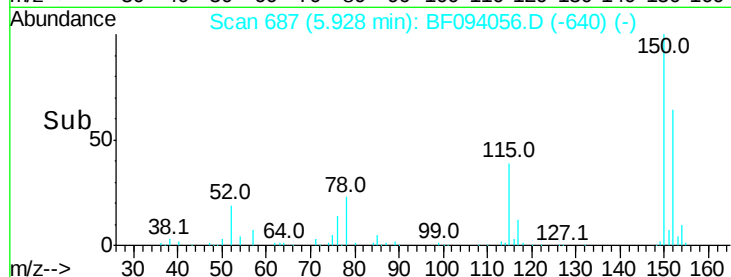
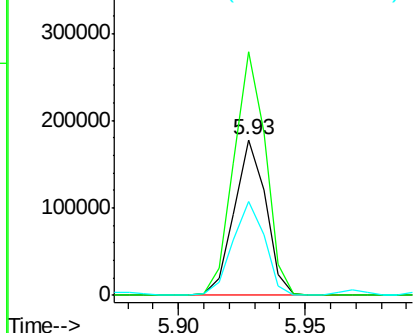
Tot Ion	Ratio	Lower	Upper
152	100		
150	156.5	126.2	189.2
115	60.3	52.2	78.2

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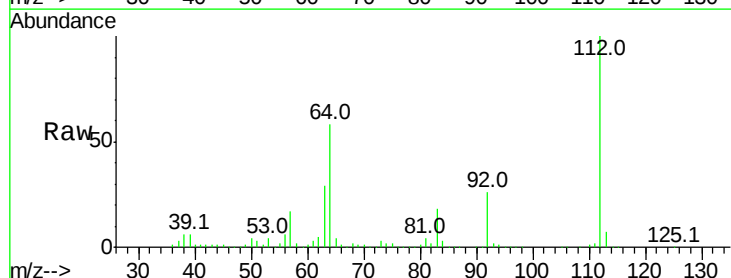
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



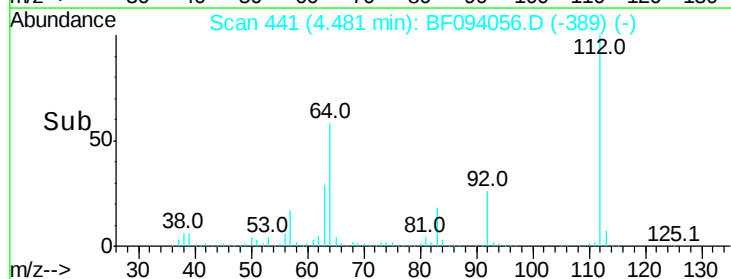
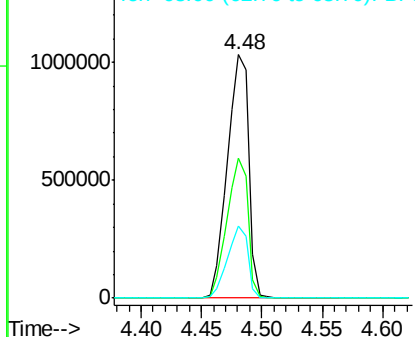
#5

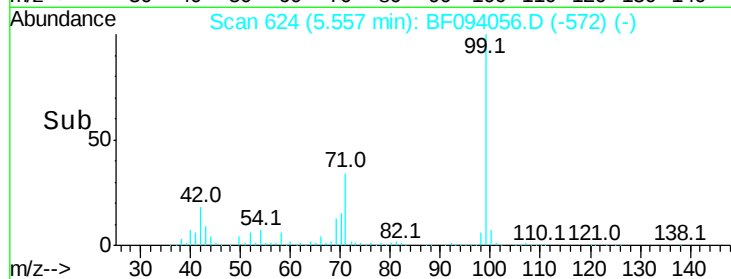
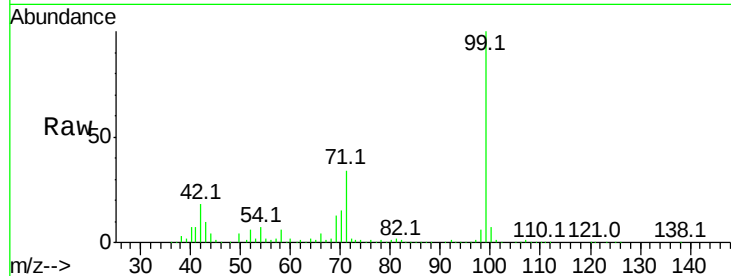
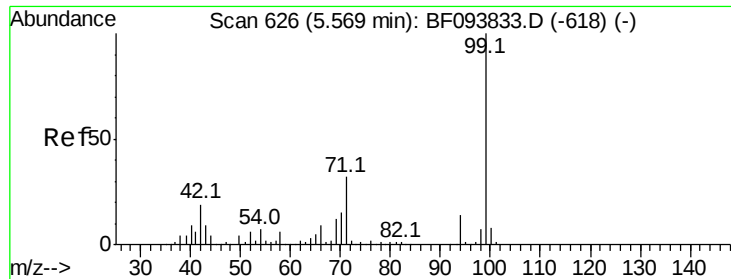
2-Fluorophenol
Concen: 139.30 ng
RT: 4.48 min Scan# 441
Delta R.T. 0.01 min
Lab File: BF094056.D
Acq: 30 Mar 2017 10:24

Tgt Ion	Ratio	Lower	Upper
112	100		
64	57.5	46.0	69.0
63	29.5	23.4	35.0



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF0
Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 135.87 ng

RT: 5.56 min Scan# 624

Delta R.T. 0.01 min

Lab File: BF094056.D

Acq: 30 Mar 2017 10:24

Tot Ion: 99 Resp: 1538716

Ion Ratio Lower Upper

99 100

42 18.0 13.5 20.3

71 33.8 24.5 36.7

Instrument :

BNA_F

ClientSampleId :

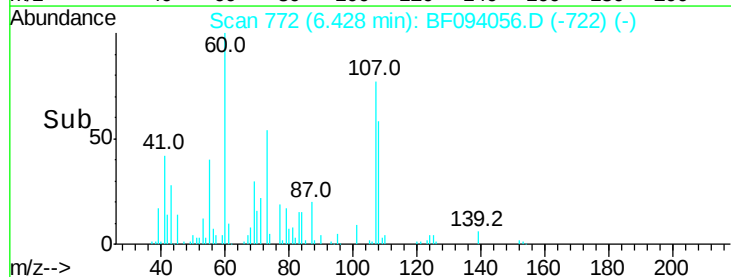
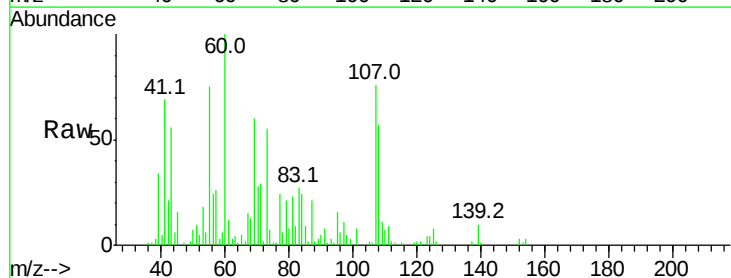
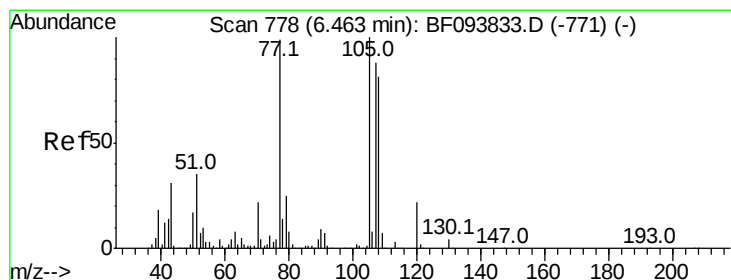
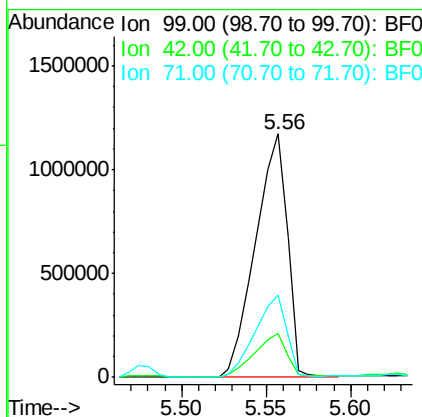
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#20

3+4-Methylphenols

Concen: 2.91 ng

RT: 6.43 min Scan# 772

Delta R.T. -0.01 min

Lab File: BF094056.D

Acq: 30 Mar 2017 10:24

Tgt Ion:107 Resp: 30361

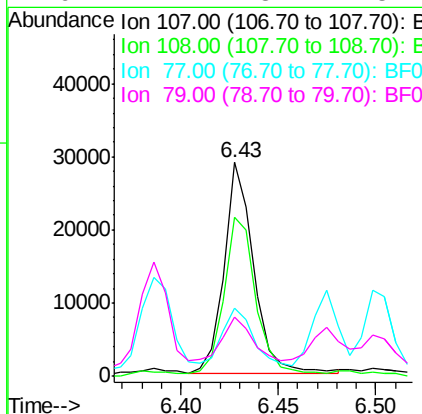
Ion Ratio Lower Upper

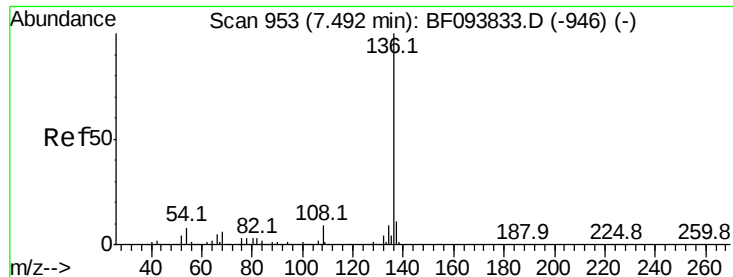
107 100

108 74.6 71.0 111.0

77 32.0 90.5 130.5#

79 27.7 8.4 48.4





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.43 min Scan# 943

Delta R.T. -0.02 min

Lab File: BF094056.D

Acq: 30 Mar 2017 10:24

Instrument :

BNA_F

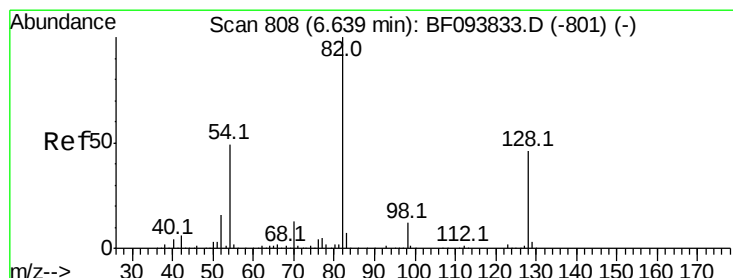
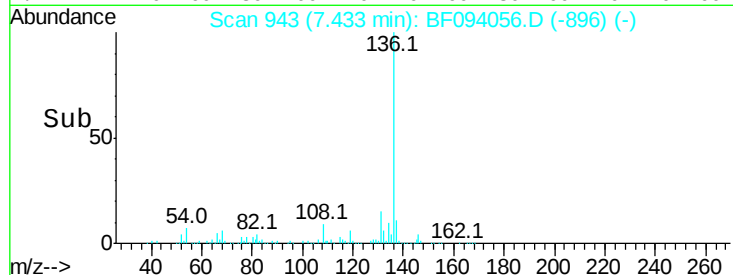
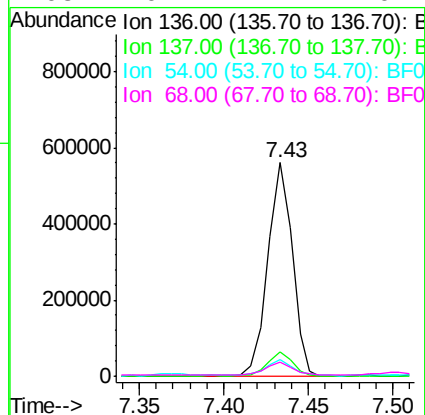
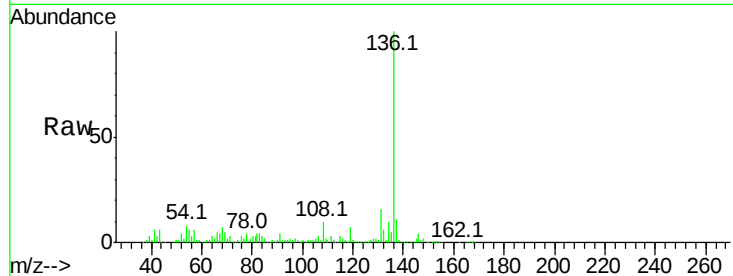
ClientSampleId :

E2-AA9-ESW

Tot Ion	Ratio	Resp Lower	Upper
136	100		
137	11.3	8.5	12.7
54	8.1	4.9	7.3#
68	6.7	4.1	6.1#

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#23

Nitrobenzene-d5

Concen: 67.37 ng

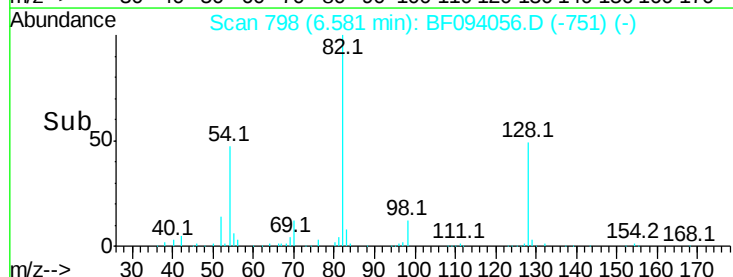
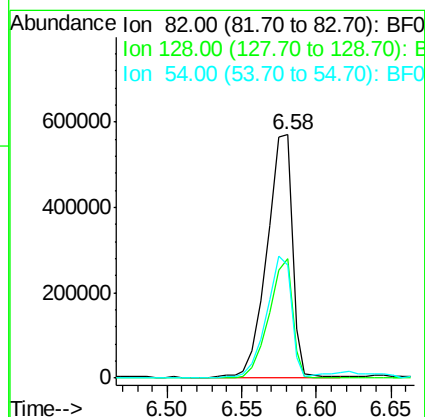
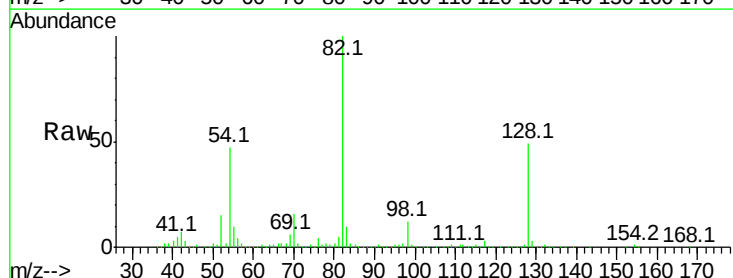
RT: 6.58 min Scan# 798

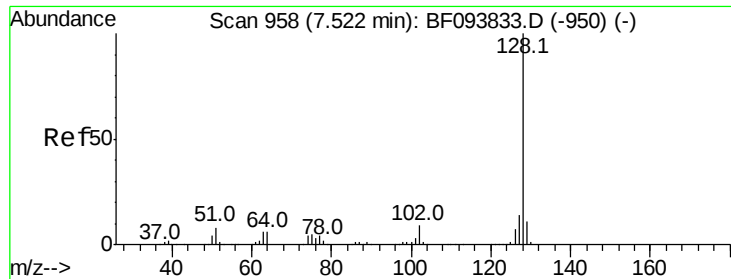
Delta R.T. -0.02 min

Lab File: BF094056.D

Acq: 30 Mar 2017 10:24

Tgt Ion	Ratio	Resp Lower	Upper
82	100		
128	49.0	34.0	51.0
54	46.7	42.2	63.2





#31

Naphthalene

Concen: 57.72 ng

RT: 7.46 min Scan# 948

Delta R.T. -0.02 min

Lab File: BF094056.D

Acq: 30 Mar 2017 10:24

Instrument :

BNA_F

ClientSampleId :

E2-AA9-ESW

Tot Ion:128 Resp: 1567801

Ion Ratio Lower Upper

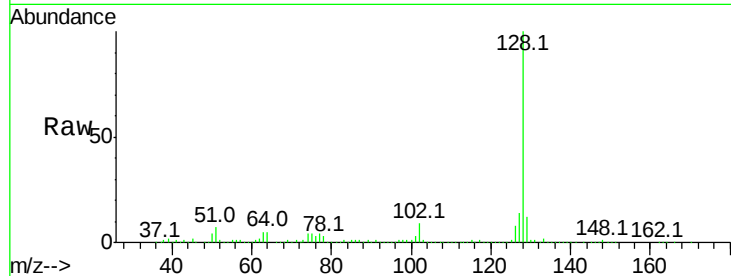
128 100

129 11.6 9.0 13.6

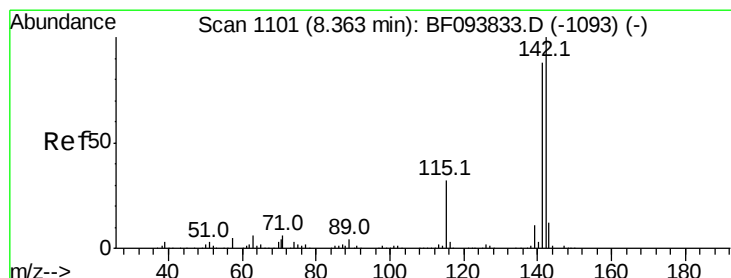
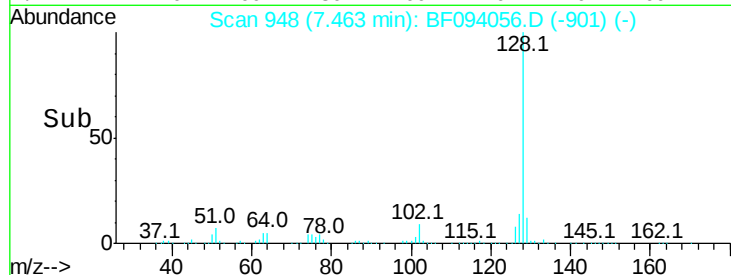
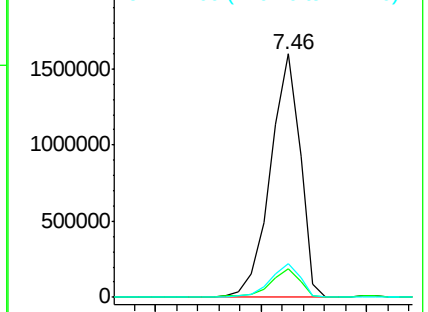
127 13.8 10.8 16.2

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Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E



#37

2-Methylnaphthalene

Concen: 37.80 ng

RT: 8.30 min Scan# 1091

Delta R.T. -0.02 min

Lab File: BF094056.D

Acq: 30 Mar 2017 10:24

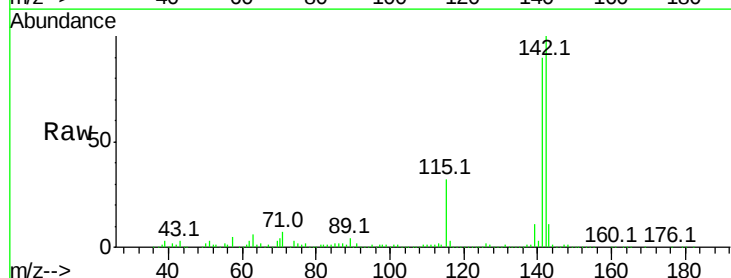
Tgt Ion:142 Resp: 684433

Ion Ratio Lower Upper

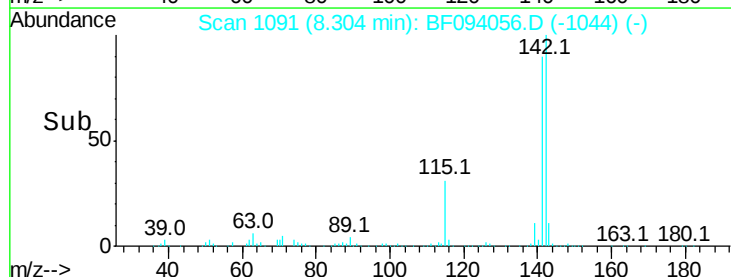
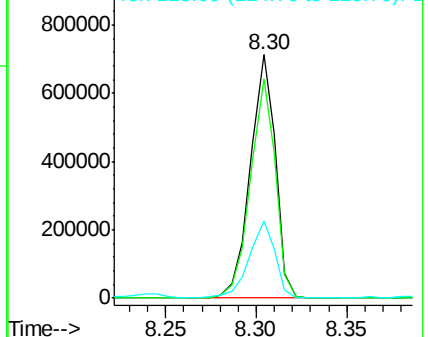
142 100

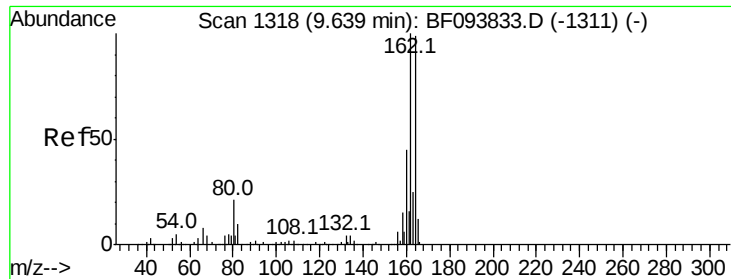
141 89.8 71.3 106.9

115 31.9 27.1 40.7



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





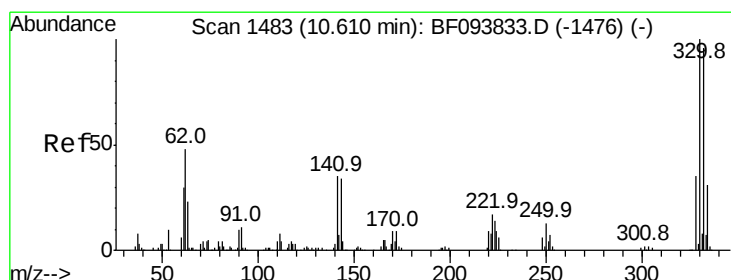
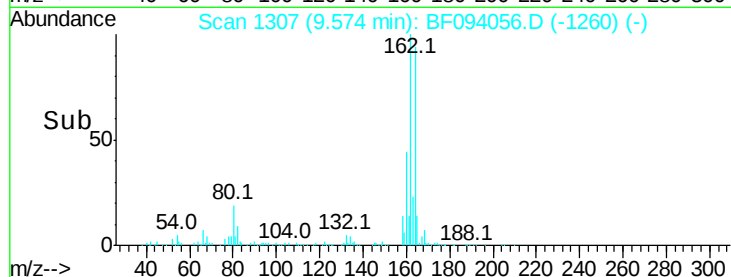
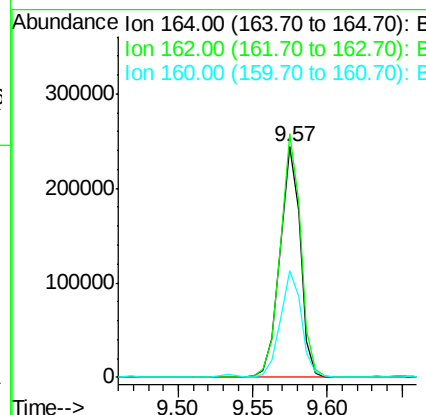
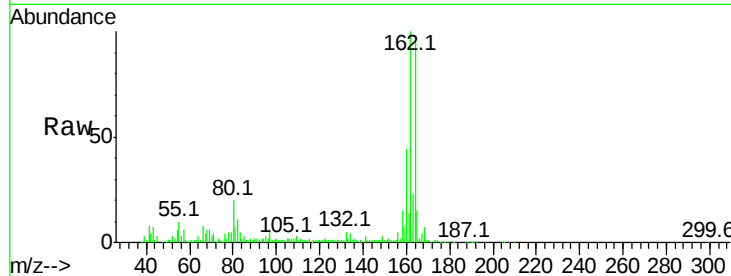
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.57 min Scan# 1307
 Delta R.T. -0.02 min
 Lab File: BF094056.D
 Acq: 30 Mar 2017 10:24

Instrument :
 BNA_F
 ClientSampleId :
 E2-AA9-ESW

Tot Ion	Ratio	Lower	Upper
164	100		
162	105.5	82.6	123.8
160	46.3	36.2	54.2

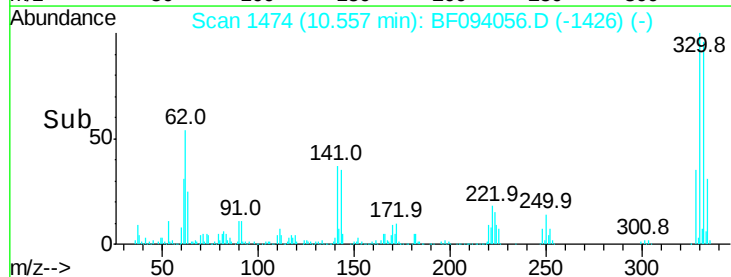
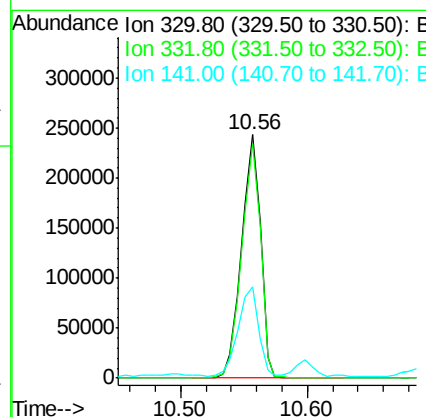
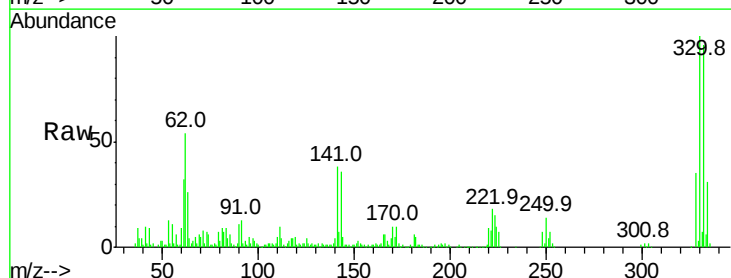
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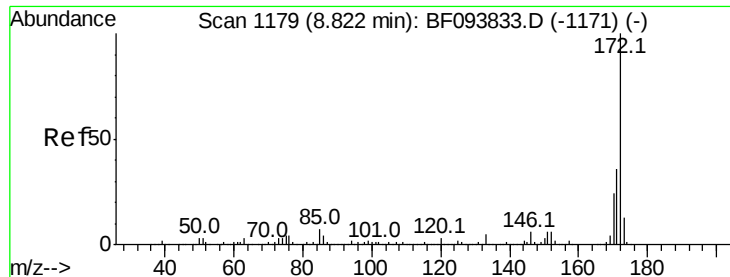
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#41
 2,4,6-Tribromophenol
 Concen: 136.04 ng
 RT: 10.56 min Scan# 1474
 Delta R.T. -0.02 min
 Lab File: BF094056.D
 Acq: 30 Mar 2017 10:24

Tgt Ion	Ratio	Lower	Upper
330	100		
332	96.4	76.6	115.0
141	38.9	31.4	47.2





#44

2-Fluorobiphenyl

Concen: 101.79 ng

RT: 8.76 min Scan# 1168

Delta R.T. -0.02 min

Lab File: BF094056.D

Acq: 30 Mar 2017 10:24

Instrument :

BNA_F

ClientSampleId :

E2-AA9-ESW

Tot Ion:172 Resp: 1553894

Ion Ratio Lower Upper

172 100

171 36.3 29.6 44.4

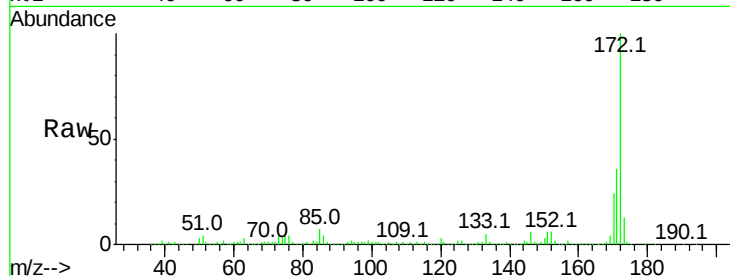
170 24.3 19.8 29.8

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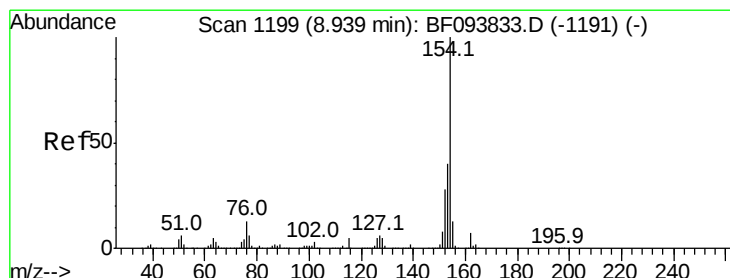
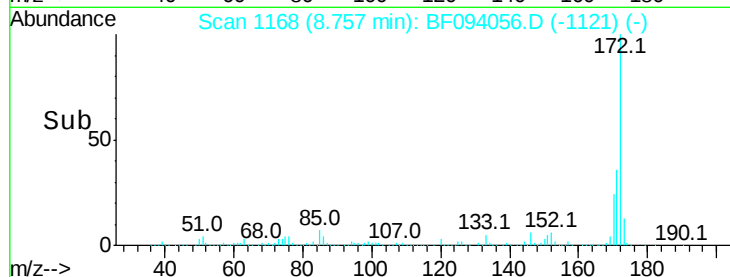
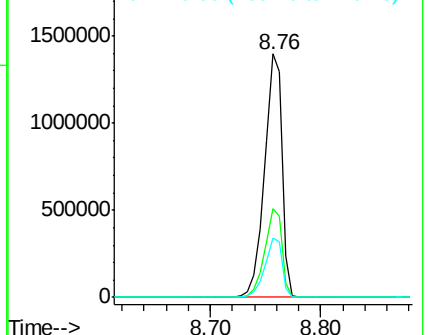
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Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#45

1,1'-Biphenyl

Concen: 6.16 ng

RT: 8.87 min Scan# 1188

Delta R.T. -0.02 min

Lab File: BF094056.D

Acq: 30 Mar 2017 10:24

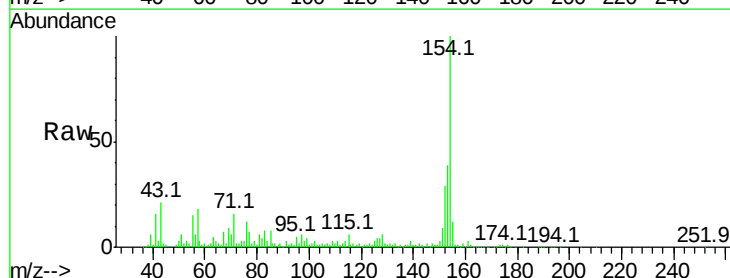
Tgt Ion:154 Resp: 115613

Ion Ratio Lower Upper

154 100

153 38.7 21.2 61.2

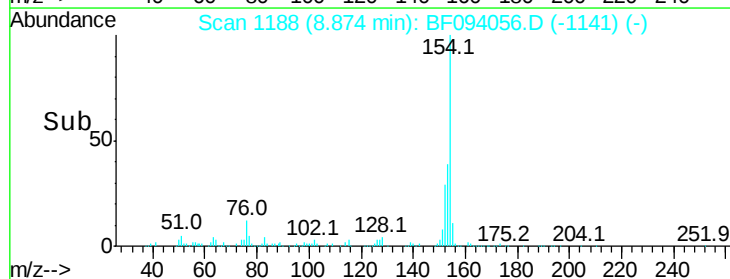
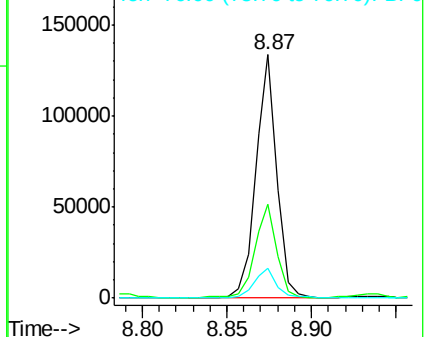
76 12.3 0.0 29.9

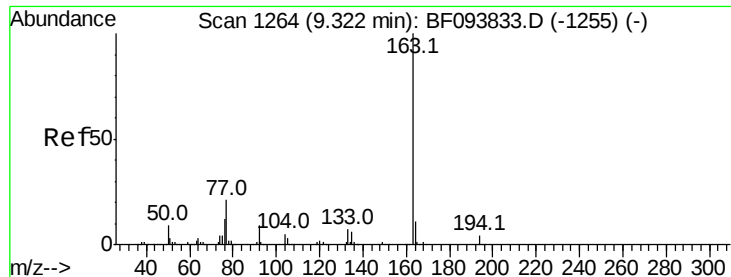


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BF0





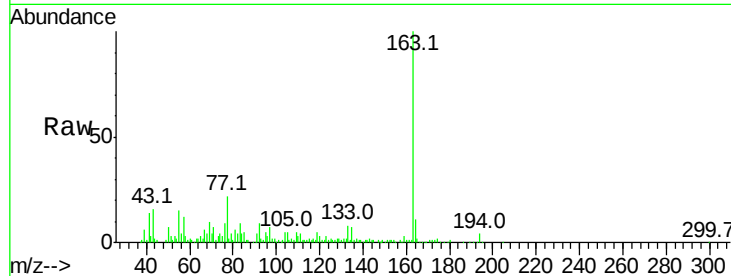
#49
Dimethylphthalate
Concen: 6.14 ng
RT: 9.25 min Scan# 1252
Delta R.T. -0.04 min
Lab File: BF094056.D
Acq: 30 Mar 2017 10:24

Instrument :
BNA_F
ClientSampleId :
E2-AA9-ESW

Tot Ion	Ratio	Resp	Lower	Upper
163	100			
194	3.7	2.6	4.0	
164	10.6	8.4	12.6	

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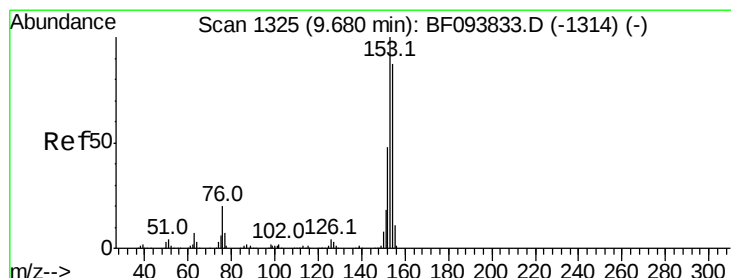
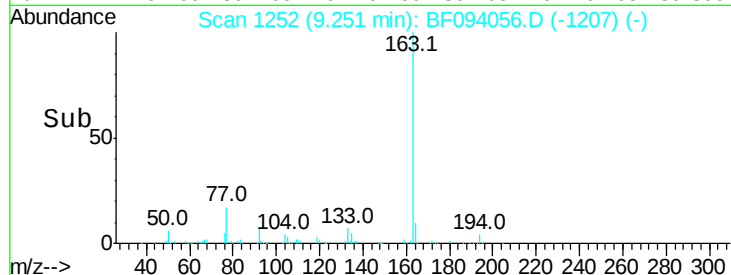
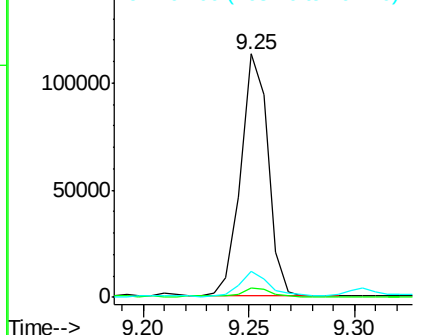


Abundance

Ion 163.00 (162.70 to 163.70): E

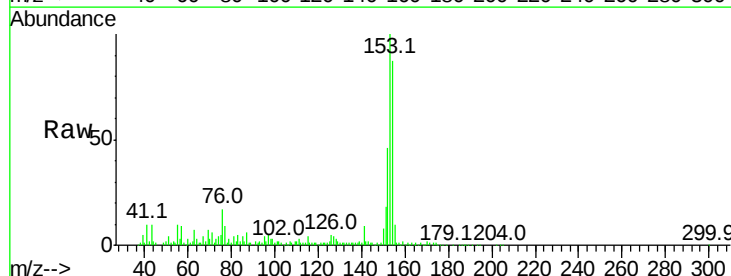
Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#51
Acenaphthene
Concen: 8.33 ng
RT: 9.62 min Scan# 1314
Delta R.T. -0.03 min
Lab File: BF094056.D
Acq: 30 Mar 2017 10:24

Tgt Ion	Ratio	Resp	Lower	Upper
154	100			
153	115.2	90.5	135.7	
152	53.2	43.6	65.4	

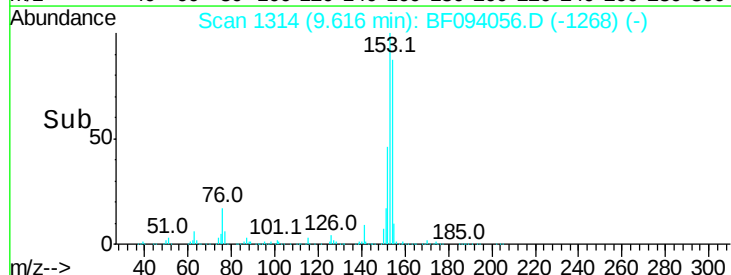
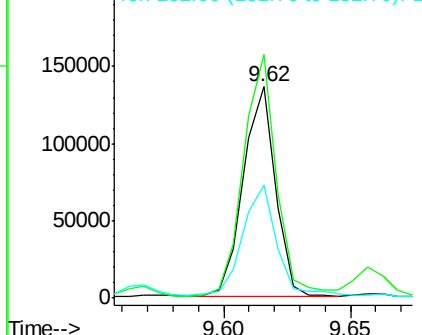


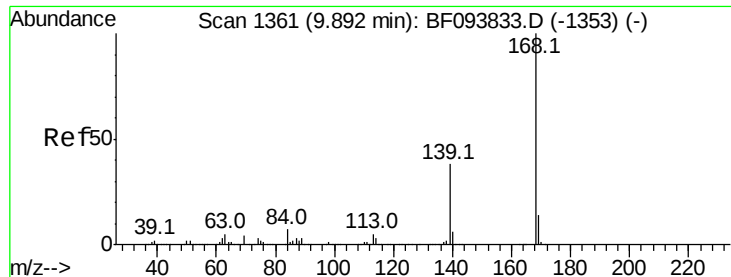
Abundance

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





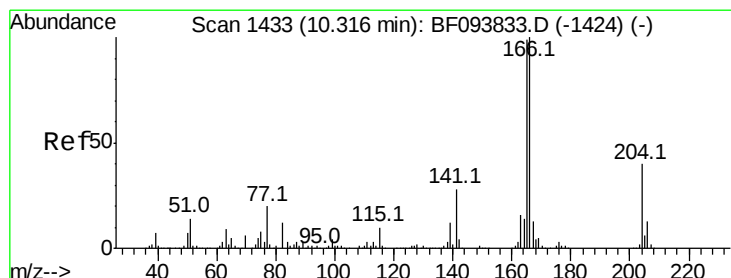
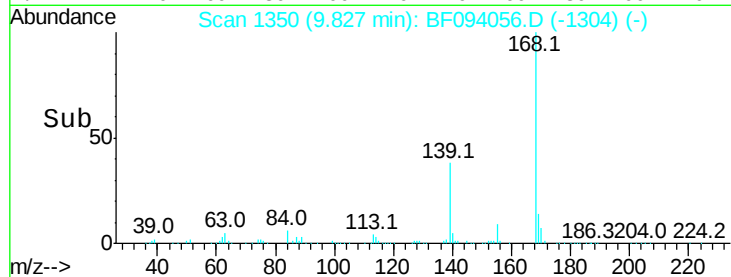
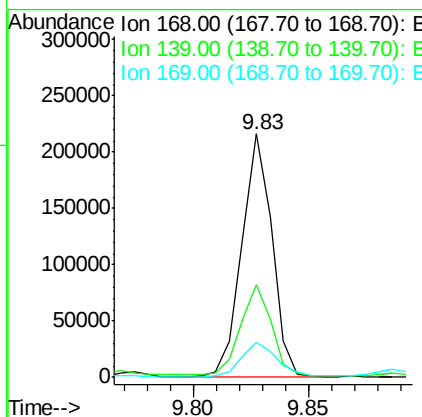
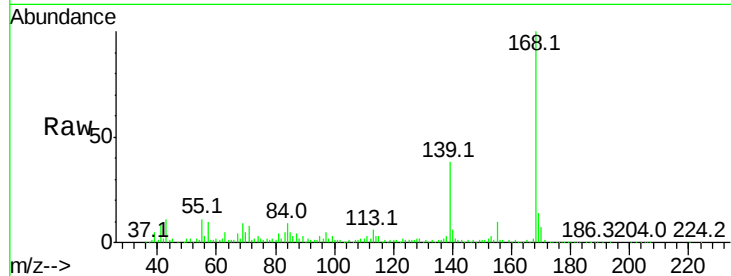
#54
Dibenzofuran
Concen: 10.18 ng
RT: 9.83 min Scan# 1350
Delta R.T. -0.03 min
Lab File: BF094056.D
Acq: 30 Mar 2017 10:24

Instrument :
BNA_F
ClientSampleId :
E2-AA9-ESW

Tot Ion	Ratio	Resp	Lower	Upper
168	100	197525		
139	37.9		30.6	45.8
169	14.1		10.8	16.2

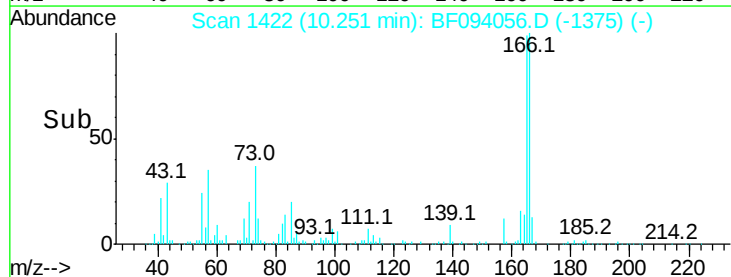
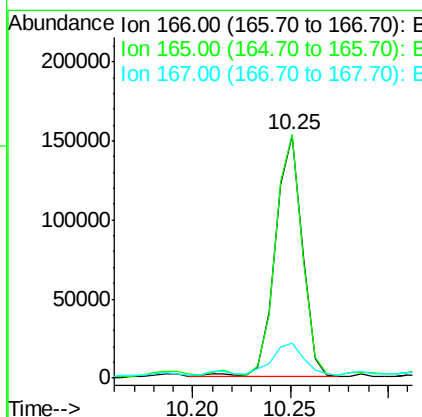
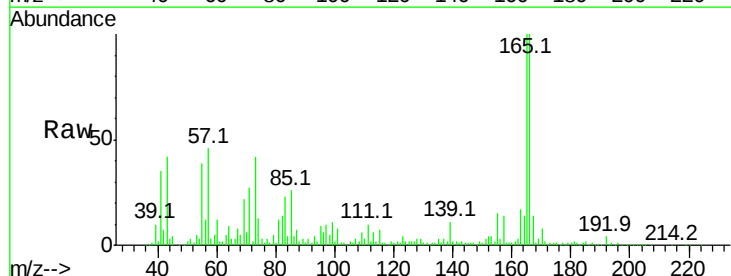
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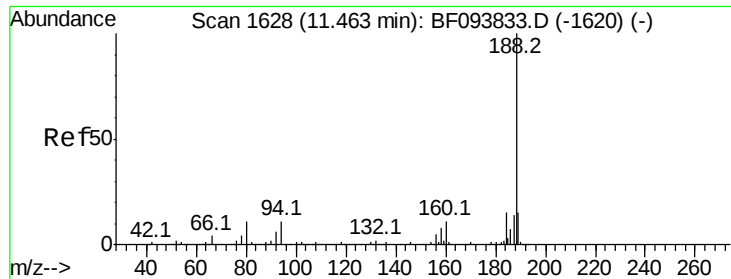
mohammad
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#57
Fluorene
Concen: 9.00 ng
RT: 10.25 min Scan# 1422
Delta R.T. -0.02 min
Lab File: BF094056.D
Acq: 30 Mar 2017 10:24

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	144818		
165	100.2		78.8	118.2
167	14.3		10.6	16.0





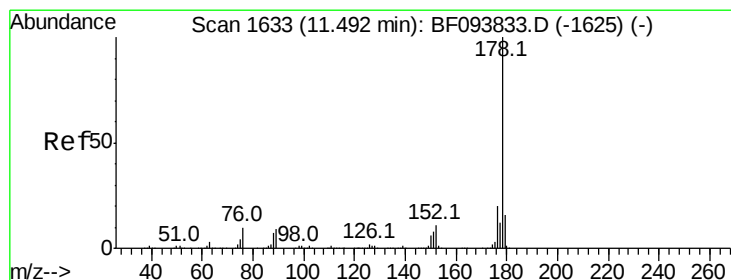
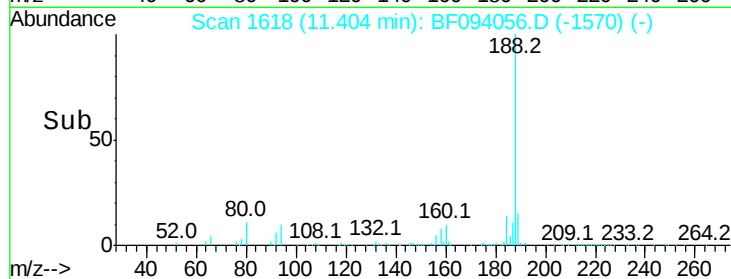
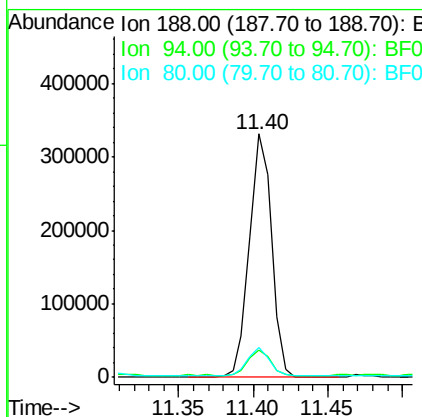
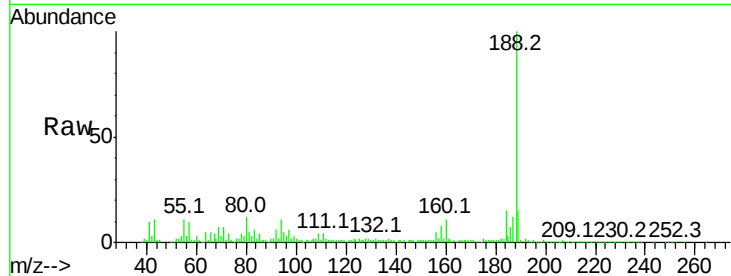
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.40 min Scan# 1618
Delta R.T. -0.02 min
Lab File: BF094056.D
Acq: 30 Mar 2017 10:24

Instrument :
BNA_F
ClientSampleId :
E2-AA9-ESW

Tot Ion	Ratio	Resp	Lower	Upper
188	100	339218		
94	11.3		9.4	14.2
80	12.1		10.2	15.2

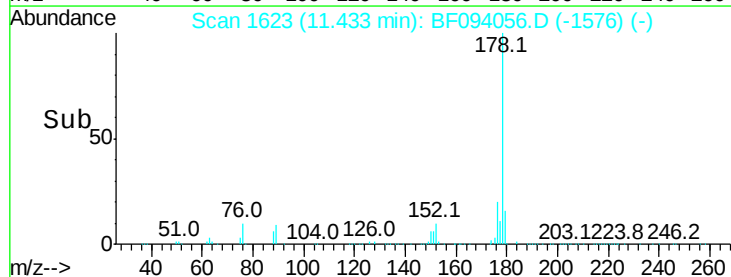
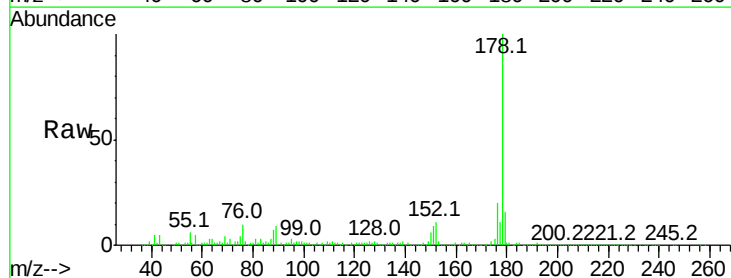
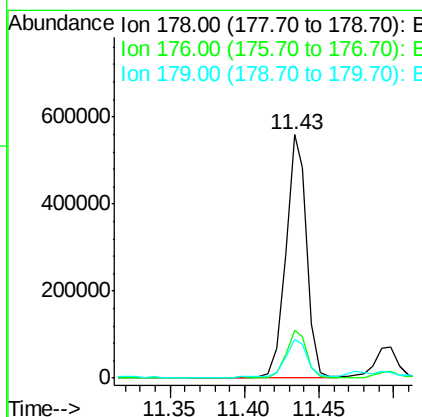
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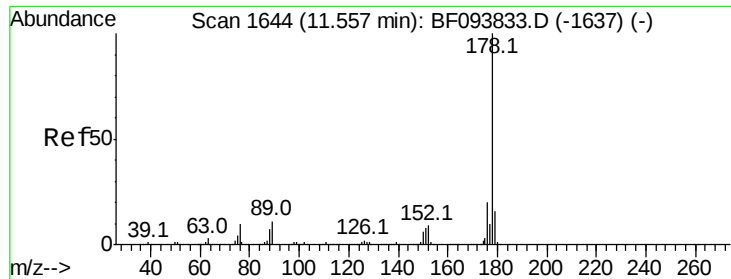
mohammad
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#70
Phenanthrene
Concen: 28.87 ng
RT: 11.43 min Scan# 1623
Delta R.T. -0.02 min
Lab File: BF094056.D
Acq: 30 Mar 2017 10:24

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	544814		
176	19.8		16.2	24.4
179	16.0		12.6	19.0





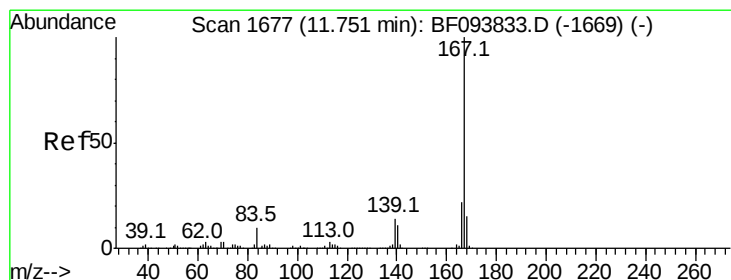
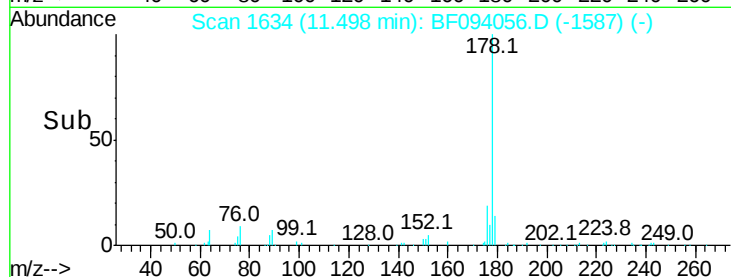
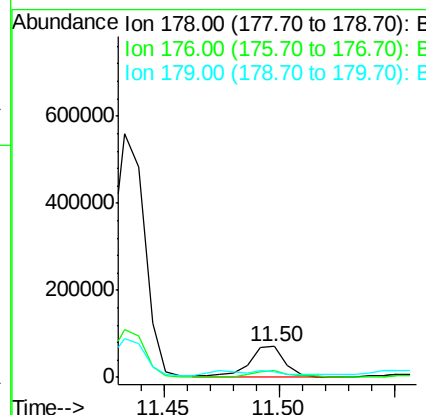
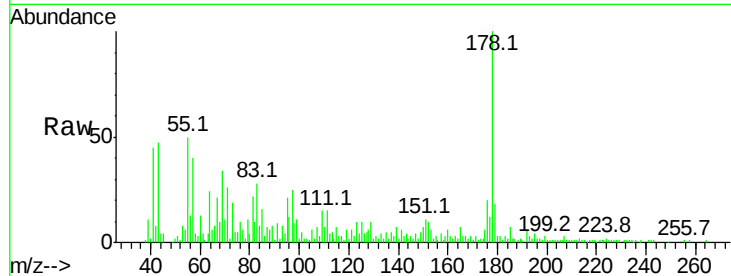
#71
 Anthracene
 Concen: 3.69 ng
 RT: 11.50 min Scan# 1634
 Delta R.T. -0.02 min
 Lab File: BF094056.D
 Acq: 30 Mar 2017 10:24

Instrument :
 BNA_F
 ClientSampleId :
 E2-AA9-ESW

Tot Ion	Ratio	Lower	Upper
178	100		
176	20.3	15.8	23.8
179	18.5	12.7	19.1

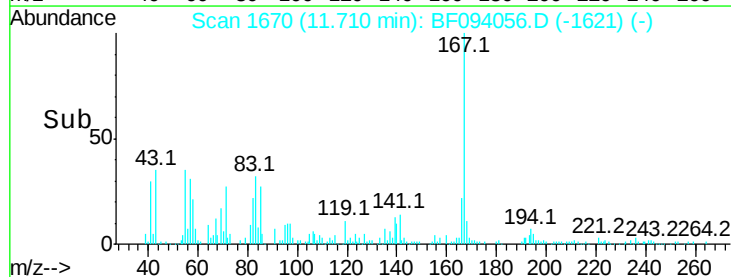
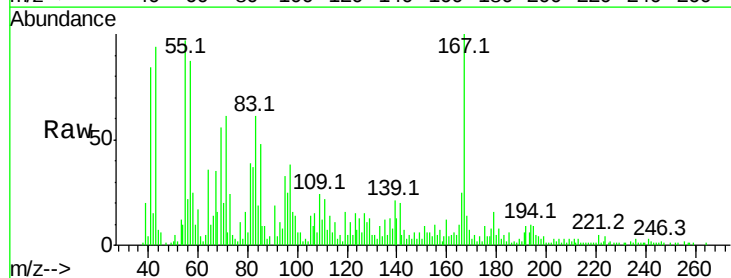
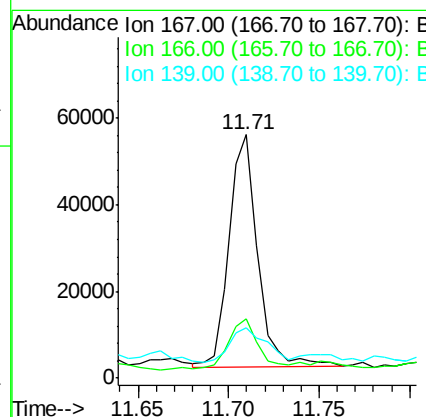
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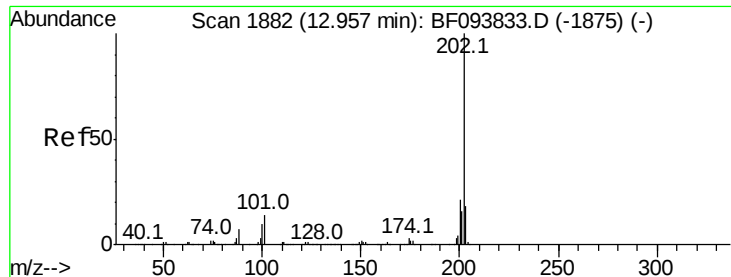
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#72
 Carbazole
 Concen: 2.98 ng
 RT: 11.71 min Scan# 1670
 Delta R.T. -0.01 min
 Lab File: BF094056.D
 Acq: 30 Mar 2017 10:24

Tgt Ion	Ratio	Lower	Upper
167	100		
166	24.6	18.1	27.1
139	20.6	11.7	17.5#





#74

Fluoranthene

Concen: 13.78 ng

RT: 12.93 min Scan# 1878

Delta R.T. 0.01 min

Lab File: BF094056.D

Acq: 30 Mar 2017 10:24

Instrument :

BNA_F

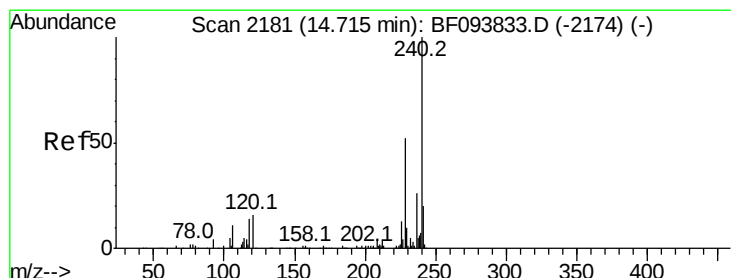
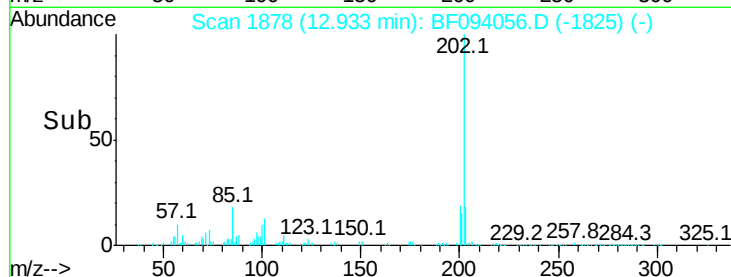
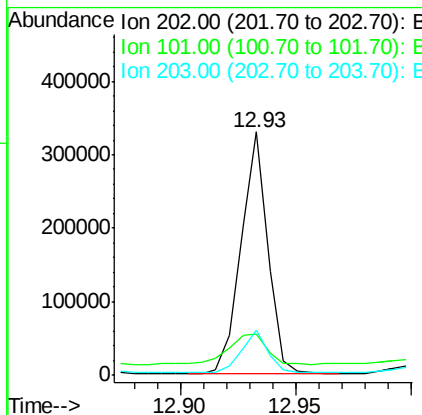
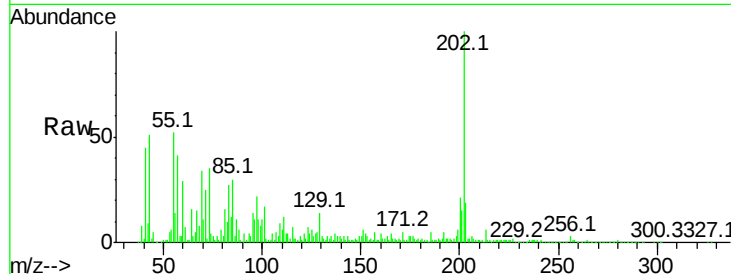
ClientSampleId :

E2-AA9-ESW

Tot Ion	Ratio	Resp Lower	Upper
202	100		
101	16.9	0.0	33.2
203	18.8	0.0	38.1

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#75

Chrysene-d12

Concen: 20.00 ng

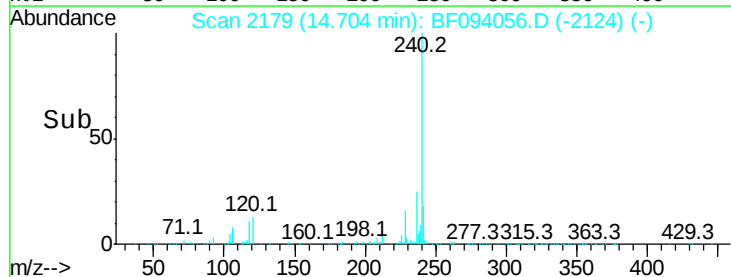
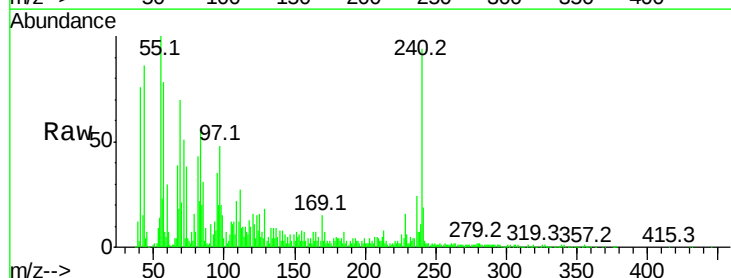
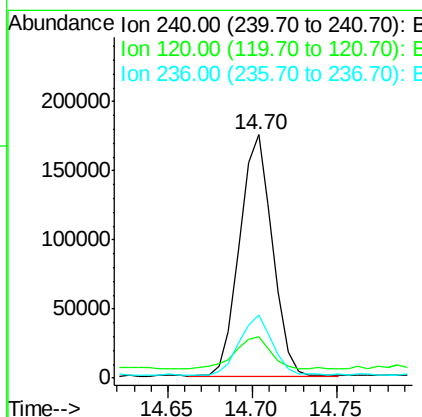
RT: 14.70 min Scan# 2179

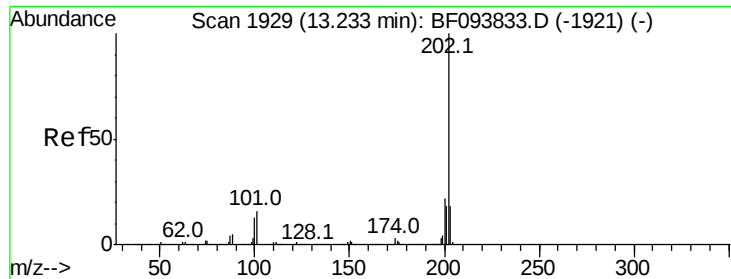
Delta R.T. 0.02 min

Lab File: BF094056.D

Acq: 30 Mar 2017 10:24

Tgt Ion	Ratio	Resp Lower	Upper
240	100		
120	16.8	5.8	8.8#
236	25.9	20.5	30.7





#77

Pvrene

Concen: 7.76 ng

RT: 13.20 min Scan# 1923

Delta R.T. -0.00 min

Lab File: BF094056.D

Acq: 30 Mar 2017 10:24

Instrument :

BNA_F

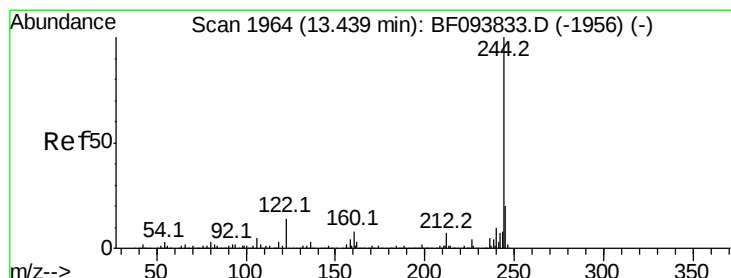
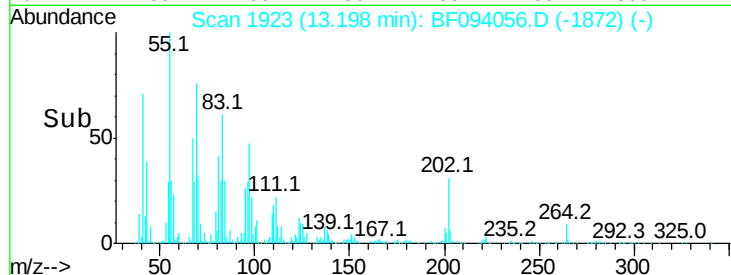
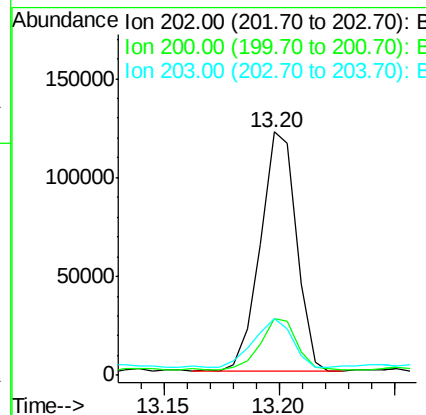
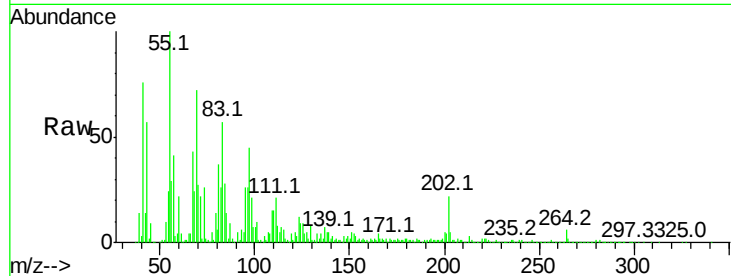
ClientSampleId :

E2-AA9-ESW

Tot Ion	Ratio	Resp	Lower	Upper
202	100			
200	23.2	17.6	26.4	
203	23.1	14.4	21.6	

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#78

Terphenyl-d14

Concen: 67.51 ng

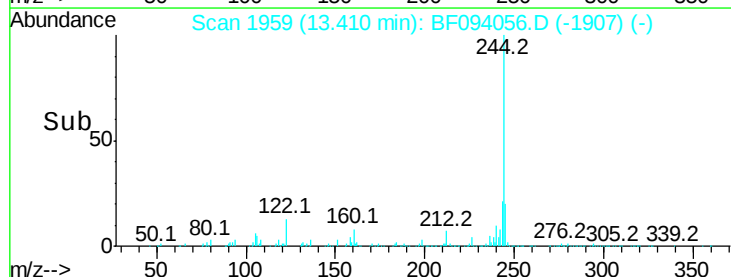
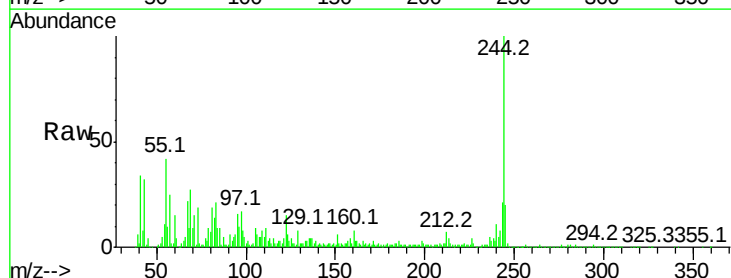
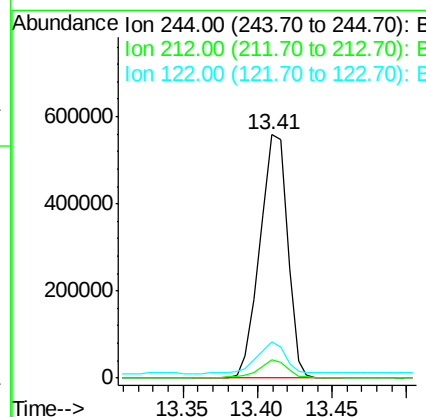
RT: 13.41 min Scan# 1959

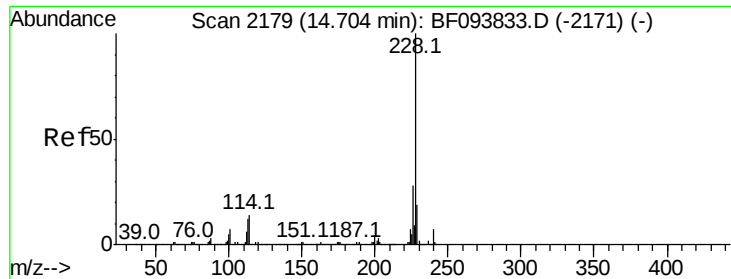
Delta R.T. 0.01 min

Lab File: BF094056.D

Acq: 30 Mar 2017 10:24

Tgt Ion	Ratio	Resp	Lower	Upper
244	100			
212	7.5	6.0	9.0	
122	14.6	10.3	15.5	





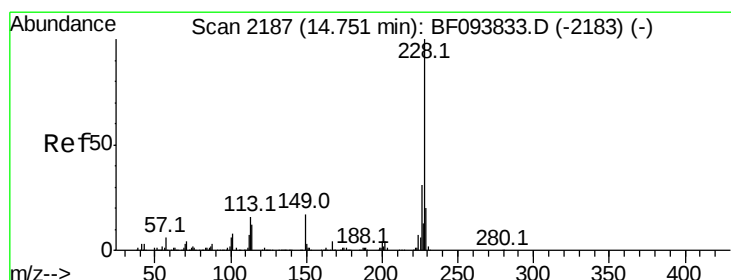
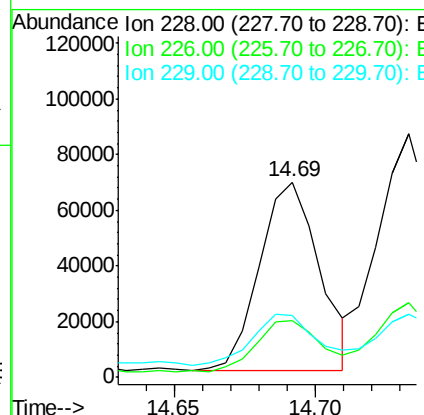
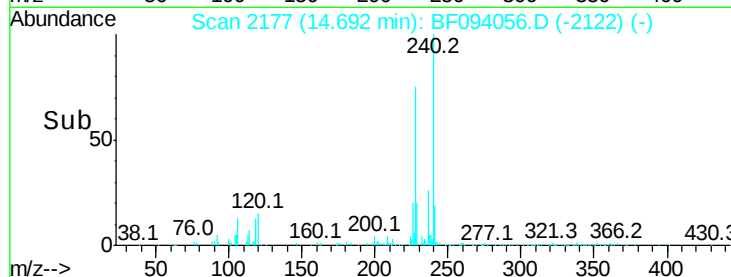
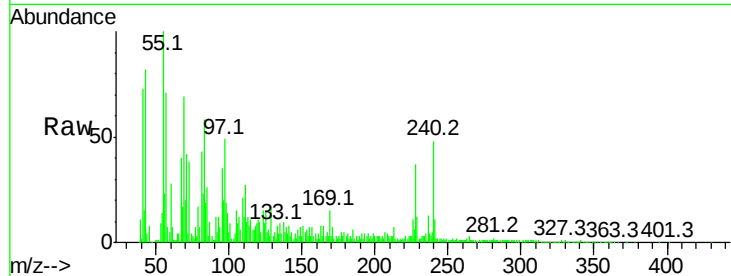
#80
Benzo(a)anthracene
Concen: 7.23 ng
RT: 14.69 min Scan# 2177
Delta R.T. 0.02 min
Lab File: BF094056.D
Acq: 30 Mar 2017 10:24

Instrument :
BNA_F
ClientSampleId :
E2-AA9-ESW

Tot Ion	Ratio	Lower	Upper
228	100		
226	29.0	22.6	33.8
229	31.5	16.3	24.5

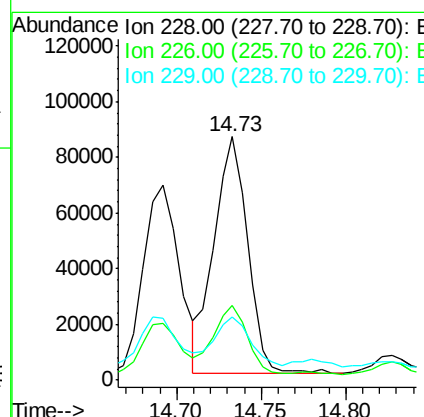
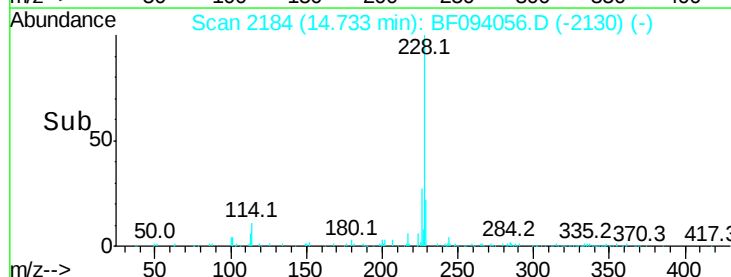
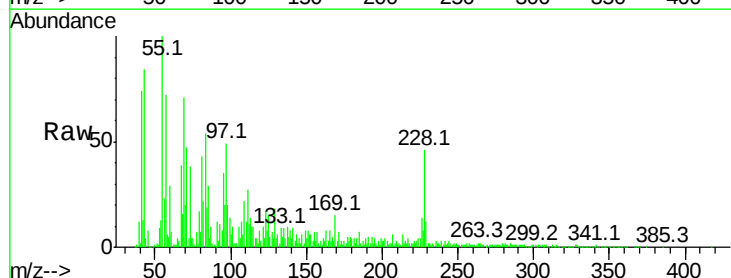
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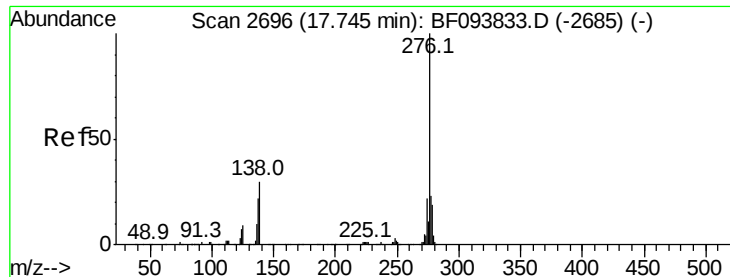
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#82
Chrysene
Concen: 9.26 ng
RT: 14.73 min Scan# 2184
Delta R.T. 0.02 min
Lab File: BF094056.D
Acq: 30 Mar 2017 10:24

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.4	24.9	37.3
229	26.2	15.8	23.6





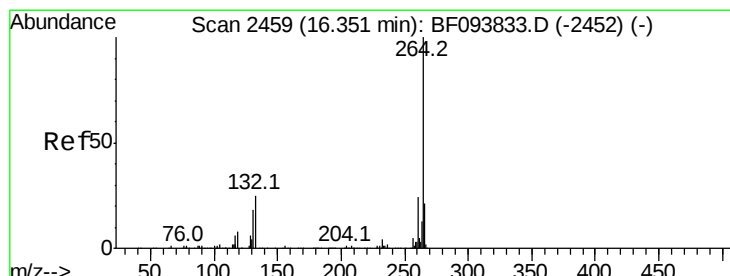
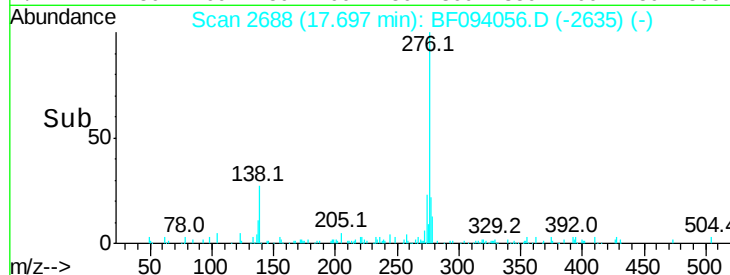
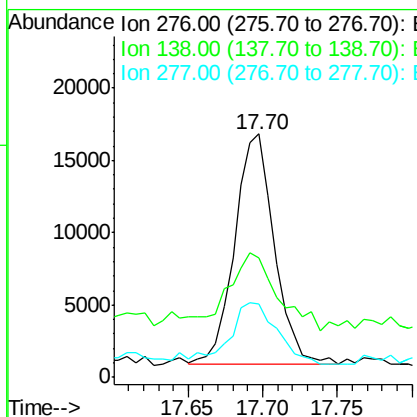
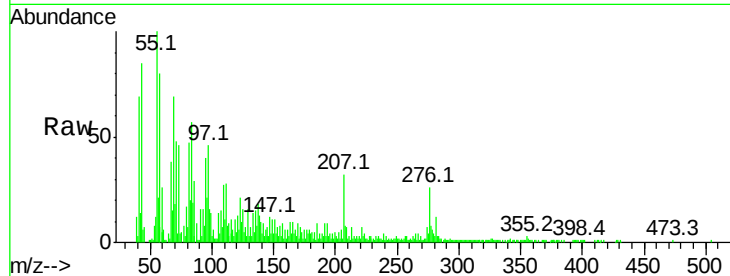
#85
Indeno(1,2,3-cd)pyrene
Concen: 2.68 ng
RT: 17.70 min Scan# 2688
Delta R.T. 0.01 min
Lab File: BF094056.D
Acq: 30 Mar 2017 10:24

Instrument :
BNA_F
ClientSampleId :
E2-AA9-ESW

Tot Ion	Ratio	Lower	Upper
276	100		
138	35.4	27.8	41.6
277	33.3	20.2	30.4

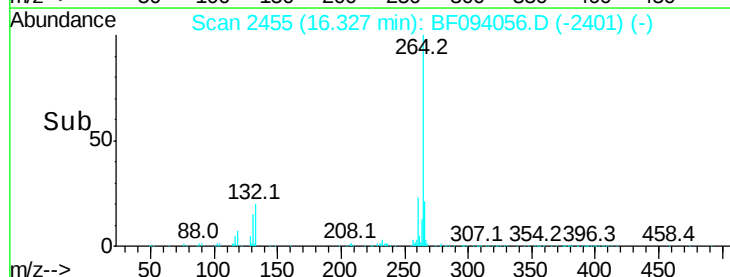
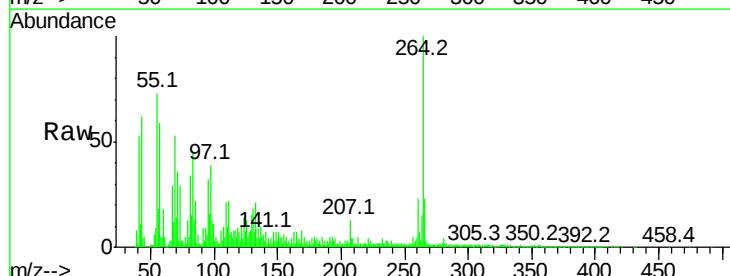
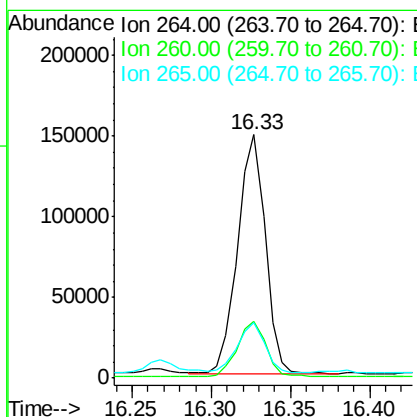
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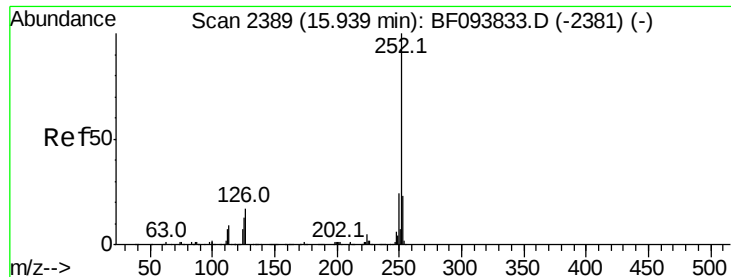
mohammad
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#86
Perylene-d12
Concen: 20.00 ng
RT: 16.33 min Scan# 2455
Delta R.T. 0.02 min
Lab File: BF094056.D
Acq: 30 Mar 2017 10:24

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.3	19.5	29.3
265	22.7	17.2	25.8





#87

Benzo(b)fluoranthene

Concen: 7.49 ng m

RT: 15.92 min Scan# 2385

Delta R.T. 0.02 min

Lab File: BF094056.D

Acq: 30 Mar 2017 10:24

Instrument :

BNA_F

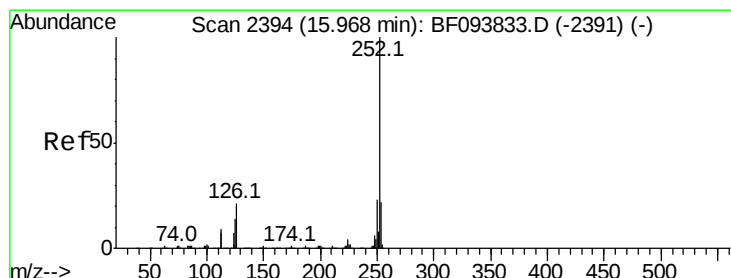
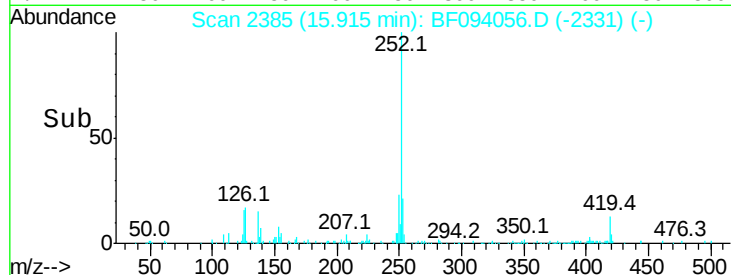
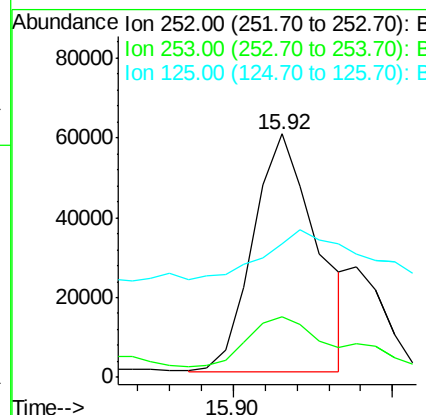
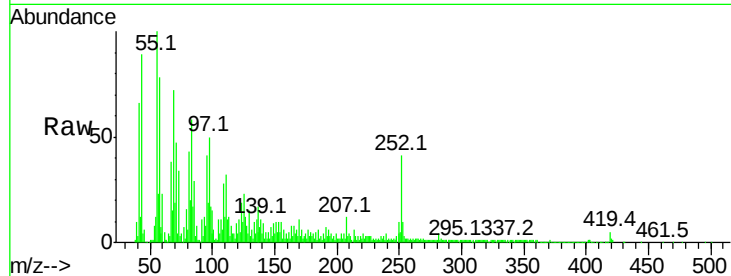
ClientSampleId :

E2-AA9-ESW

Tot Ion:	252	Resp:	82783
Ion Ratio	Lower	Upper	
252	100		
253	24.9	18.1	27.1
125	55.0	9.8	14.8#

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mohammad
3/30/2017 2:32:39 PM



#88

Benzo(k)fluoranthene

Concen: 2.02 ng m

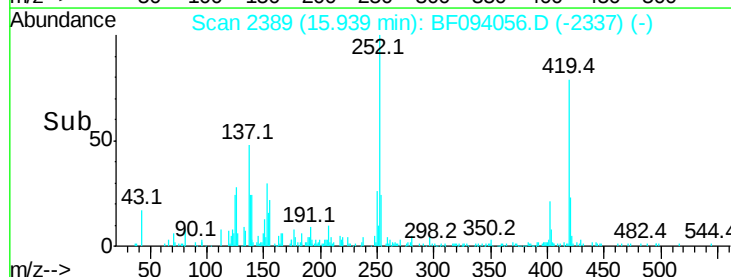
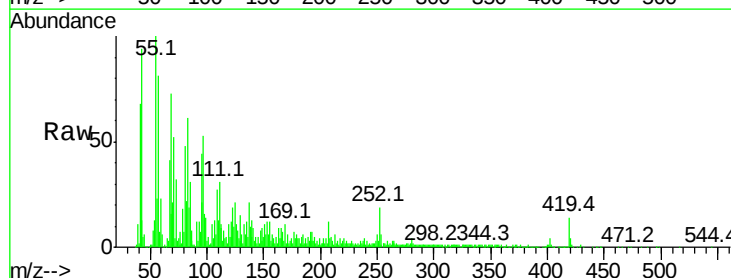
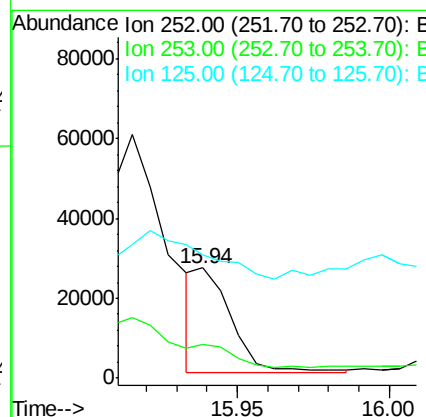
RT: 15.94 min Scan# 2389

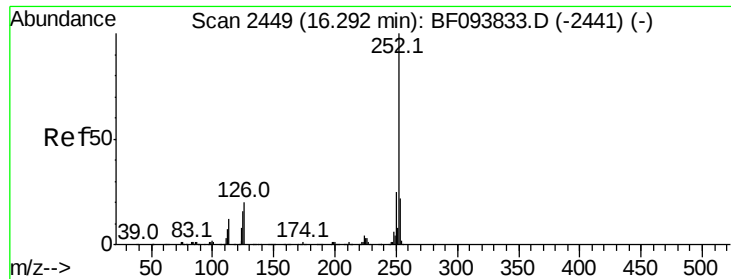
Delta R.T. 0.01 min

Lab File: BF094056.D

Acq: 30 Mar 2017 10:24

Tgt Ion:	252	Resp:	21840
Ion Ratio	Lower	Upper	
252	100		
253	30.7	18.4	27.6#
125	112.1	13.1	19.7#





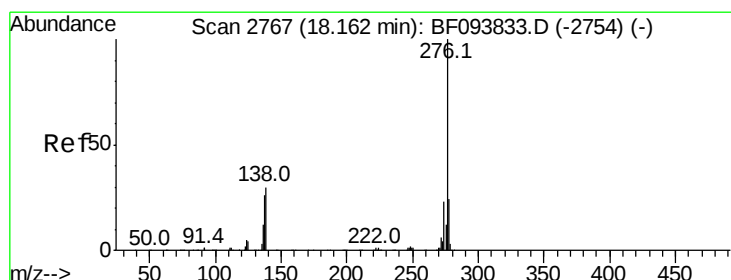
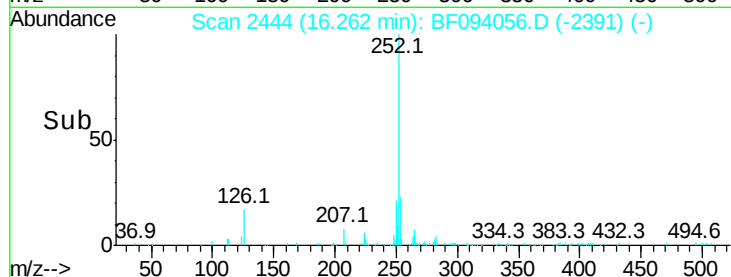
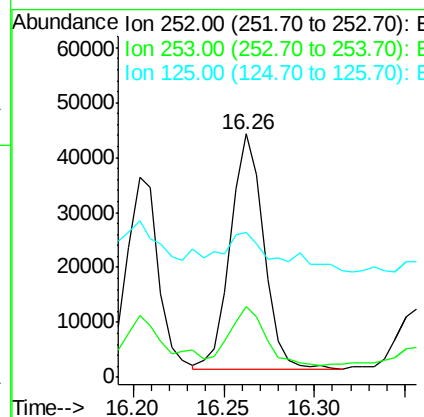
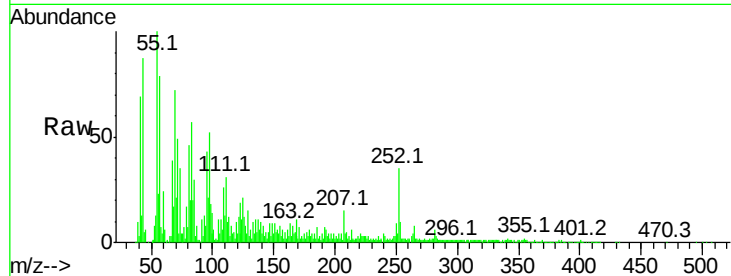
#89
Benzo(a)pyrene
Concen: 5.35 ng
RT: 16.26 min Scan# 2444
Delta R.T. 0.01 min
Lab File: BF094056.D
Acq: 30 Mar 2017 10:24

Instrument :
BNA_F
ClientSampleId :
E2-AA9-ESW

Tot Ion	Ratio	Lower	Upper
252	100		
253	28.9	17.5	26.3#
125	59.5	11.0	16.4#

Manual Integrations
APPROVED

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#91
Benzo(g,h,i)perylene
Concen: 3.59 ng
RT: 18.10 min Scan# 2757
Delta R.T. 0.01 min
Lab File: BF094056.D
Acq: 30 Mar 2017 10:24

Tgt Ion	Ratio	Lower	Upper
276	100		
277	31.4	18.6	28.0#
138	52.5	25.4	38.0#

