

Data Path : Z:\HPCHEM1\BNA F\DATA\BF022717\
 Data File : BF093234.D
 Acq On : 28 Feb 2017 4:54
 Operator : SJ/MA
 Sample : I1973-12 5X
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E2-B1-B2-BASE-2

Manual Integrations
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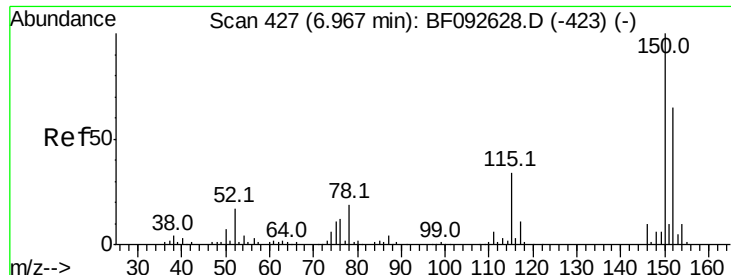
Quant Time: Feb 28 05:41:17 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF013017.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 28 00:51:02 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.82	152	166996	20.00	ng	0.00
21) Naphthalene-d8	8.11	136	612094	20.00	ng	0.00
38) Acenaphthene-d10	9.86	164	263770	20.00	ng	0.00
63) Phenanthrene-d10	11.36	188	353524	20.00	ng	0.01
75) Chrysene-d12	14.01	240	218584	20.00	ng	0.02
86) Perylene-d12	15.44	264	286258	20.00	ng	0.02

System Monitoring Compounds						
5) 2-Fluorophenol	5.41	112	201626	20.71	ng	0.00
7) Phenol-d6	6.46	99	268122	21.41	ng	-0.01
23) Nitrobenzene-d5	7.39	82	156754	14.26	ng	0.00
41) 2,4,6-Tribromophenol	10.66	330	28274	14.82	ng	0.00
44) 2-Fluorobiphenyl	9.18	172	274320	18.84	ng	0.00
78) Terphenyl-d14	12.93	244	186348	20.03	ng	0.00

Target Compounds						Qvalue
20) 3+4-Methylphenols	7.25	107	30646	2.78	ng	# 72
27) 2,4-Dimethylphenol	7.78	122	20918	2.22	ng	94
31) Naphthalene	8.13	128	2401051	77.38	ng	99
37) 2-Methylnaphthalene	8.82	142	868223	43.58	ng	98
45) 1,1'-Biphenyl	9.28	154	333052	17.44	ng	95
48) Acenaphthylene	9.72	152	58332	2.26	ng	# 80
49) Dimethylphthalate	9.58	163	36483	2.05	ng	100
51) Acenaphthene	9.89	154	1012339	65.60	ng	97
54) Dibenzofuran	10.06	168	1662426	80.54	ng	97
57) Fluorene	10.42	166	1607306m	101.22	ng	
70) Phenanthrene	11.40	178	8015715	395.76	ng	99
71) Anthracene	11.45	178	2994948	147.25	ng	99
72) Carbazole	11.58	167	1247224	64.15	ng	99
74) Fluoranthene	12.60	202	6950926	332.71	ng	96
77) Pyrene	12.83	202	5713808	349.30	ng	98
80) Benzo(a)anthracene	14.00	228	3593338	268.78	ng	96
82) Chrysene	14.04	228	2242934m	179.19	ng	
85) Indeno(1,2,3-cd)pyrene	16.87	276	1294868	133.55	ng	97
87) Benzo(b)fluoranthene	15.04	252	2743042m	145.58	ng	
88) Benzo(k)fluoranthene	15.05	252	1128010m	69.34	ng	
89) Benzo(a)pyrene	15.39	252	2109404	129.43	ng	96
90) Dibenzo(a,h)anthracene	16.85	278	399098m	30.30	ng	
91) Benzo(g,h,i)perylene	17.29	276	1132666	85.12	ng	# 91

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



#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.82 min Scan# 414

Delta R.T. -0.00 min

Lab File: BF093234.D

Acq: 28 Feb 2017 4:54

Instrument :

BNA_F

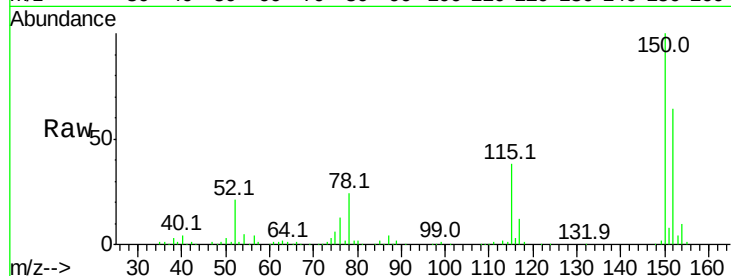
ClientSampleId :

E2-B1-B2-BASE-2

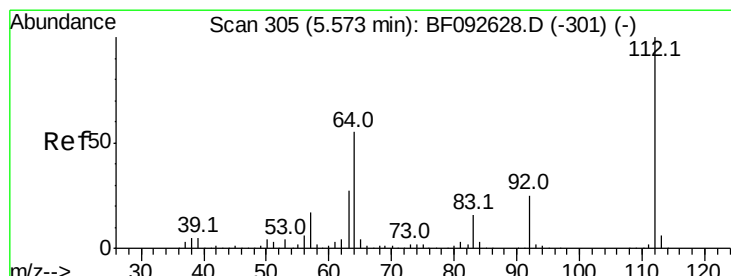
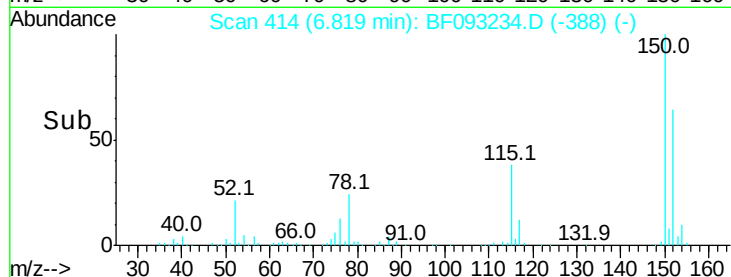
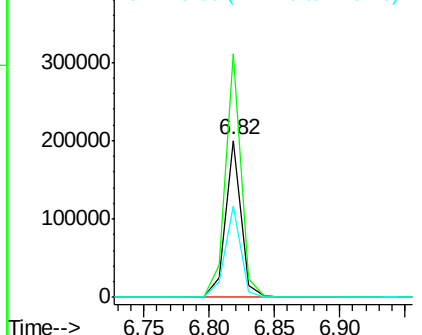
Tot Ion:	152	Resp:	166996
Ion Ratio	Lower	Upper	
152	100		
150	155.1	124.9	187.3
115	58.2	46.0	69.0

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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: 20.71 ng

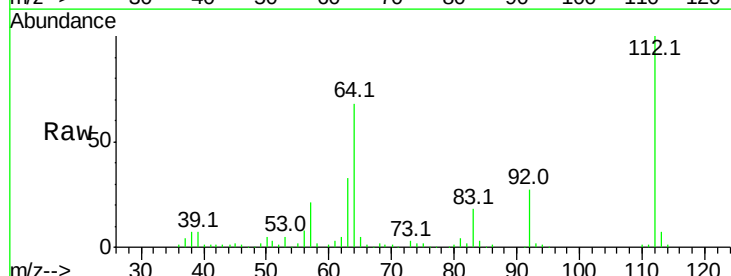
RT: 5.41 min Scan# 291

Delta R.T. -0.00 min

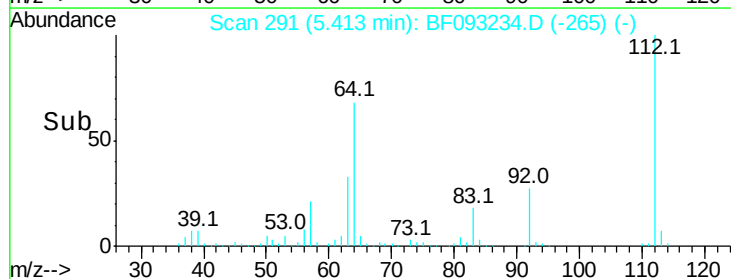
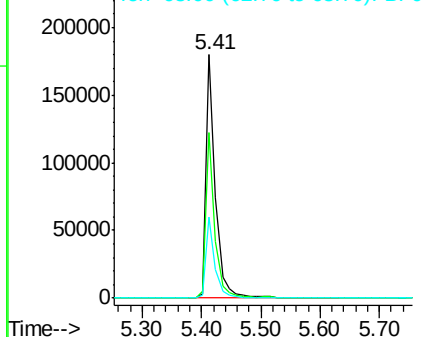
Lab File: BF093234.D

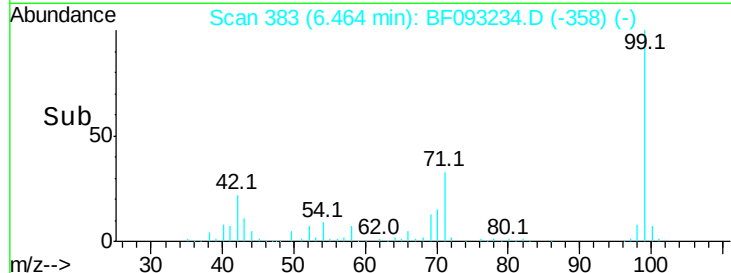
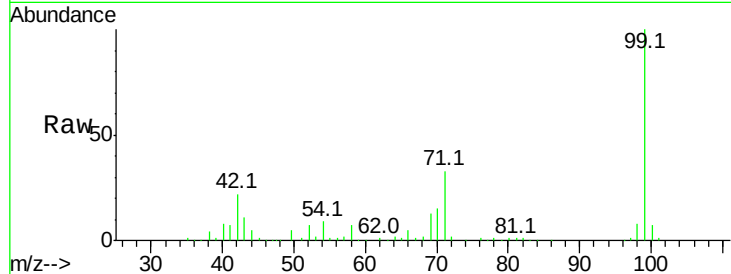
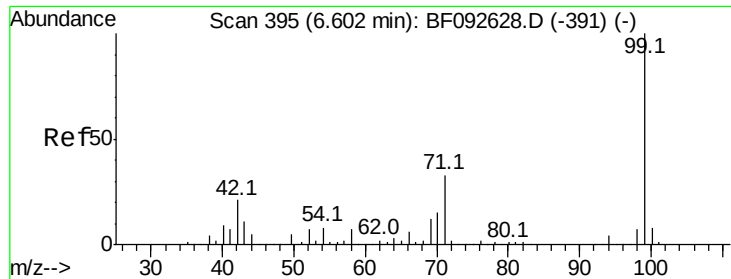
Acq: 28 Feb 2017 4:54

Tgt Ion:	112	Resp:	201626
Ion Ratio	Lower	Upper	
112	100		
64	67.8	46.1	69.1
63	33.4	23.8	35.6



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: 21.41 ng

RT: 6.46 min Scan# 383

Delta R.T. -0.01 min

Lab File: BF093234.D

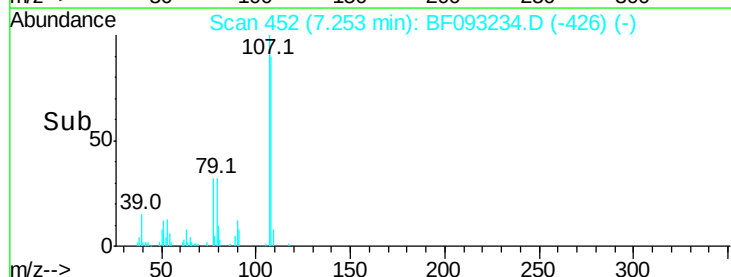
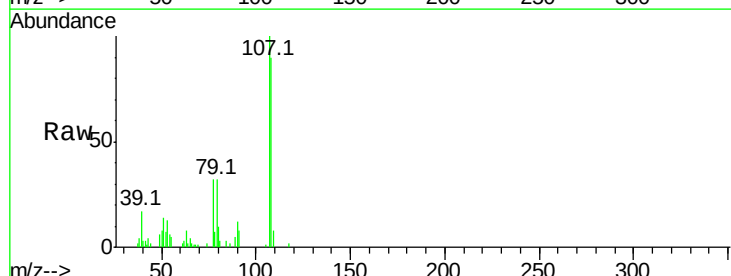
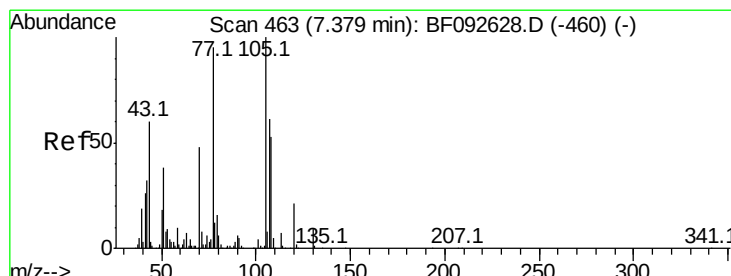
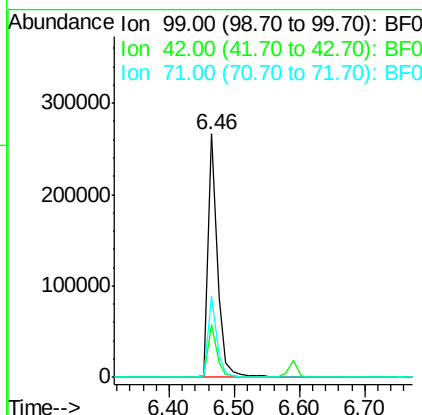
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Tot Ion	Ratio	Resp	Lower	Upper
99	100	268122		
42	21.6	15.6	23.4	
71	33.1	27.5	41.3	

Instrument :
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ClientSampled :
E2-B1-B2-BASE-2

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#20

3+4-Methylphenols

Concen: 2.78 ng

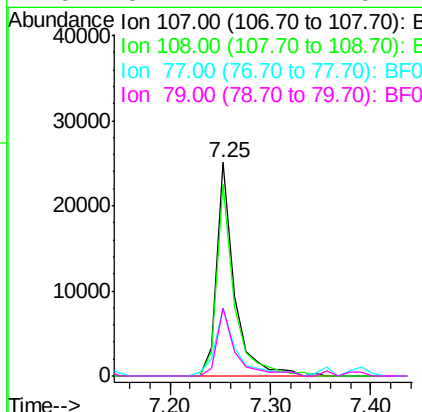
RT: 7.25 min Scan# 452

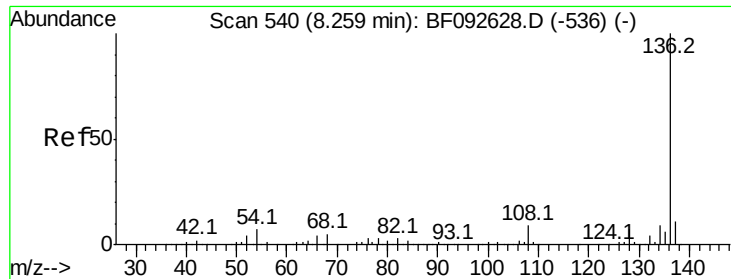
Delta R.T. -0.00 min

Lab File: BF093234.D

Acq: 28 Feb 2017 4:54

Tgt Ion	Ratio	Resp	Lower	Upper
107	100	30646		
108	89.8	73.0	113.0	
77	31.5	71.3	111.3	
79	31.7	11.1	51.1	





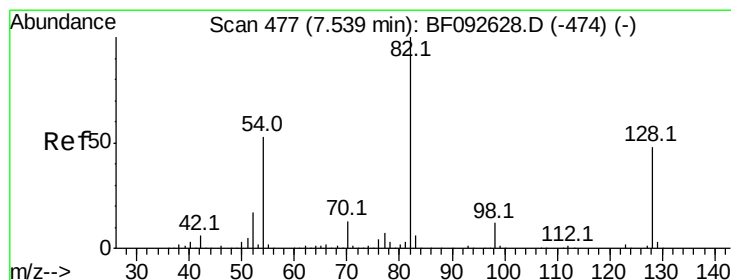
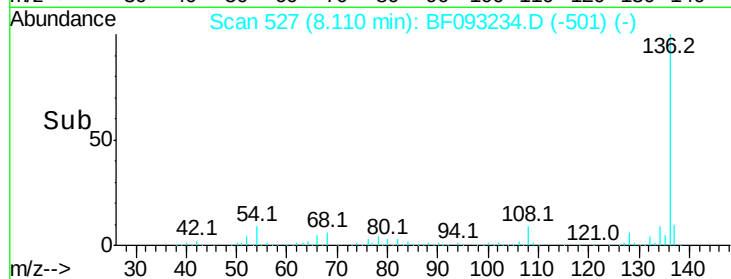
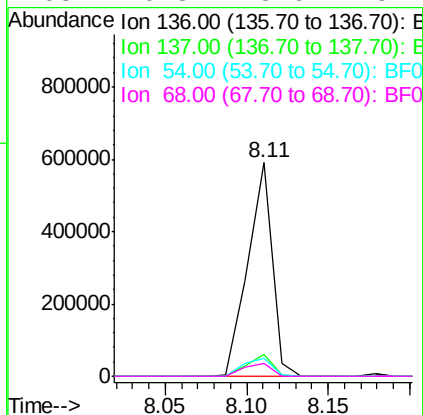
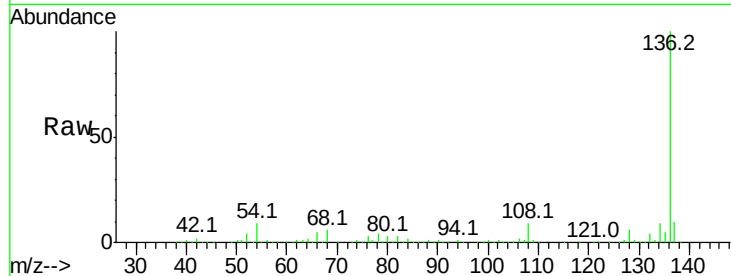
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.11 min Scan# 527
Delta R.T. -0.00 min
Lab File: BF093234.D
Acq: 28 Feb 2017 4:54

Instrument :
BNA_F
ClientSampleId :
E2-B1-B2-BASE-2

Tot Ion	Ratio	Resp	Lower	Upper
136	100	612094		
137	10.2	8.4	12.6	
54	8.6	4.5	6.7#	
68	6.3	3.6	5.4#	

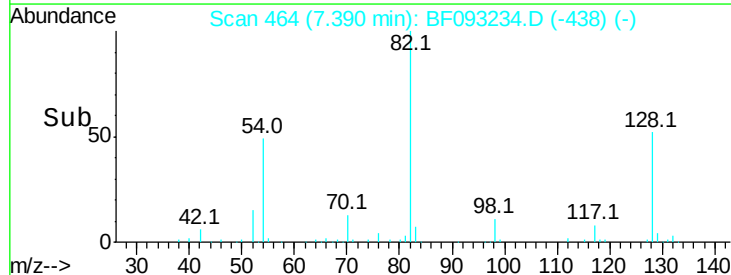
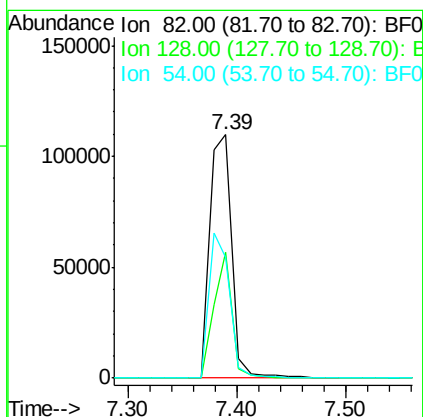
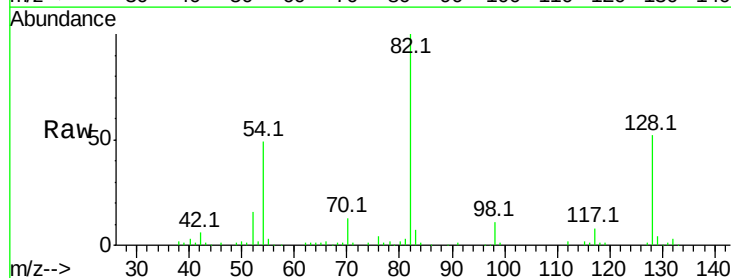
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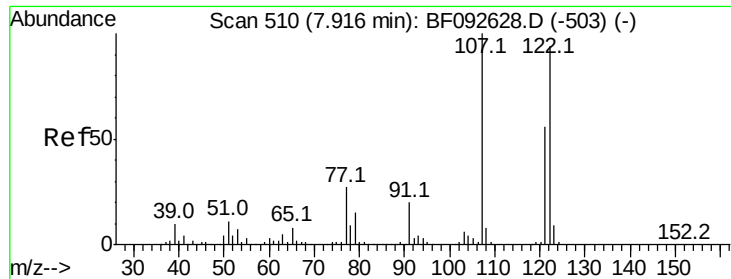
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#23
Nitrobenzene-d5
Concen: 14.26 ng
RT: 7.39 min Scan# 464
Delta R.T. -0.00 min
Lab File: BF093234.D
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Tgt Ion	Ratio	Resp	Lower	Upper
82	100	156754		
128	51.9	34.6	52.0	
54	49.4	39.5	59.3	





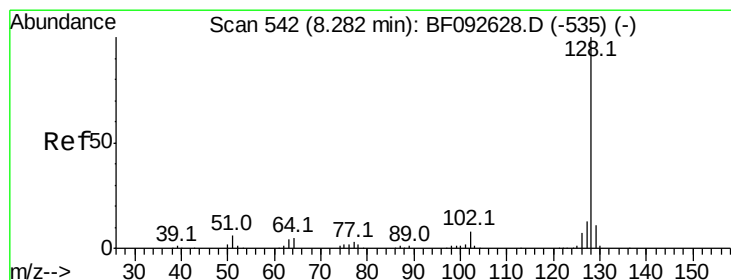
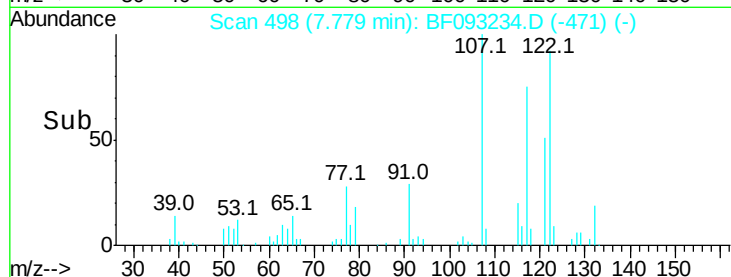
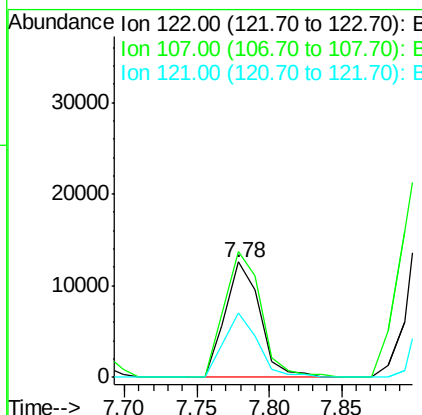
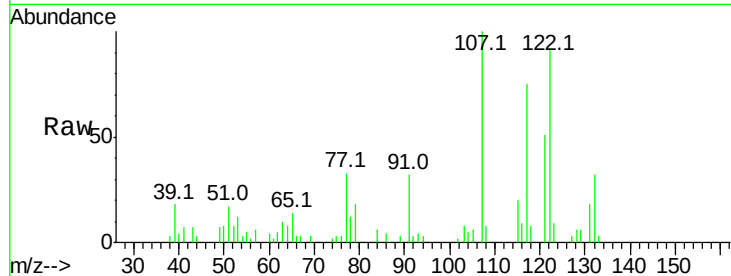
#27
2,4-Dimethylphenol
Concen: 2.22 ng
RT: 7.78 min Scan# 498
Delta R.T. 0.01 min
Lab File: BF093234.D
Acq: 28 Feb 2017 4:54

Instrument :
BNA_F
ClientSampled :
E2-B1-B2-BASE-2

Tot Ion	Ratio	Lower	Upper
122	100		
107	108.9	94.1	141.1
121	55.6	46.0	69.0

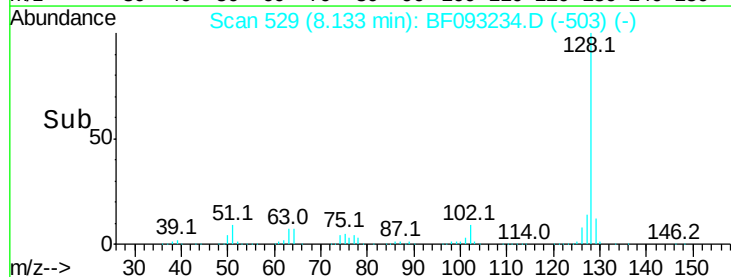
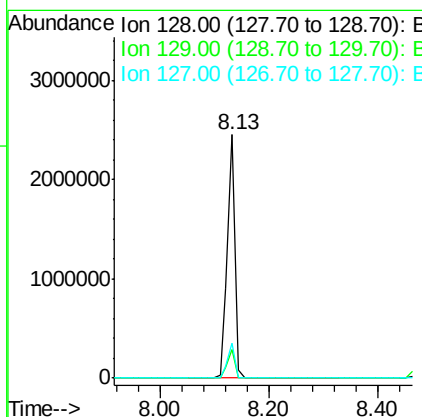
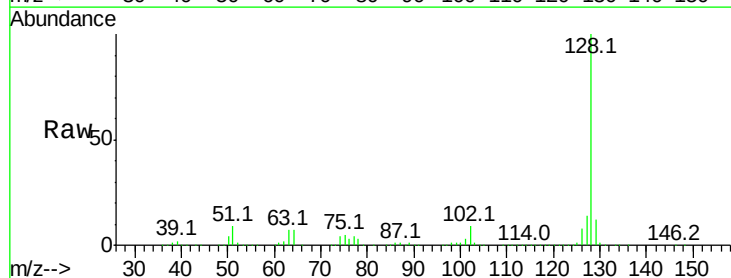
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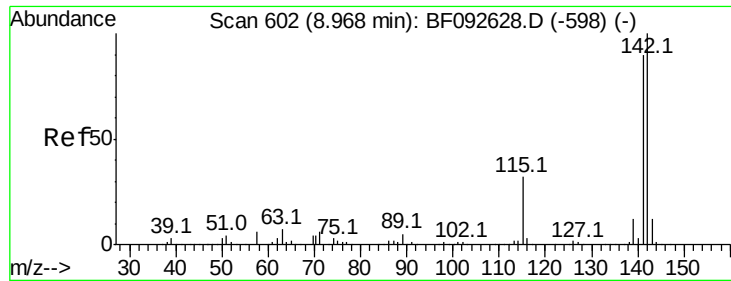
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#31
Naphthalene
Concen: 77.38 ng
RT: 8.13 min Scan# 529
Delta R.T. -0.00 min
Lab File: BF093234.D
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Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.6	9.5	14.3
127	14.3	10.8	16.2





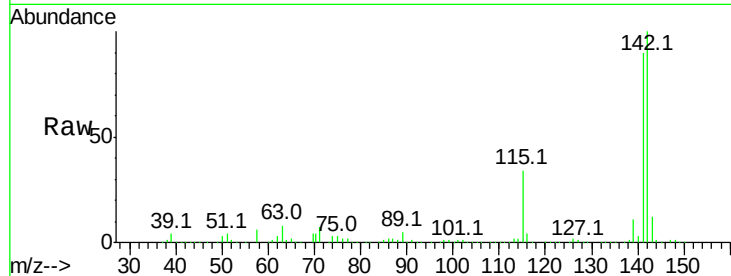
#37
2-Methylnaphthalene
Concen: 43.58 ng
RT: 8.82 min Scan# 589
Delta R.T. -0.00 min
Lab File: BF093234.D
Acq: 28 Feb 2017 4:54

Instrument :
BNA_F
ClientSampleId :
E2-B1-B2-BASE-2

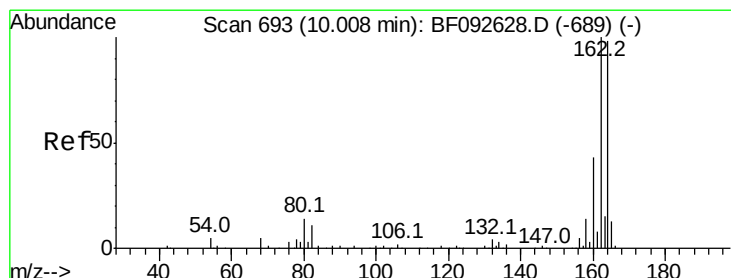
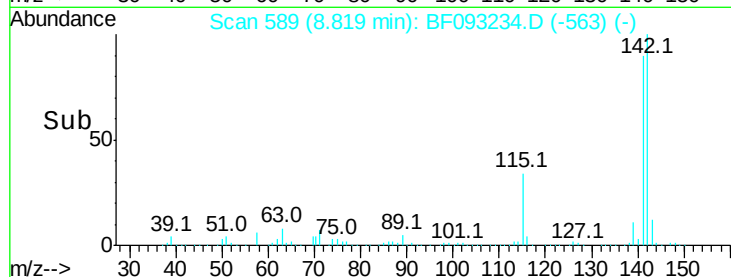
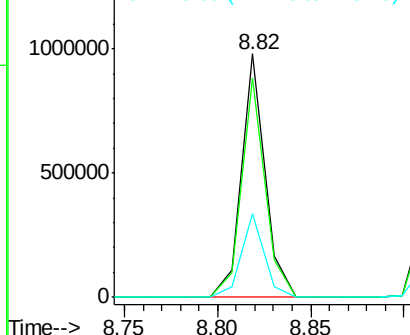
Tot Ion	Ratio	Lower	Upper
142	100		
141	90.2	71.0	106.6
115	34.3	28.3	42.5

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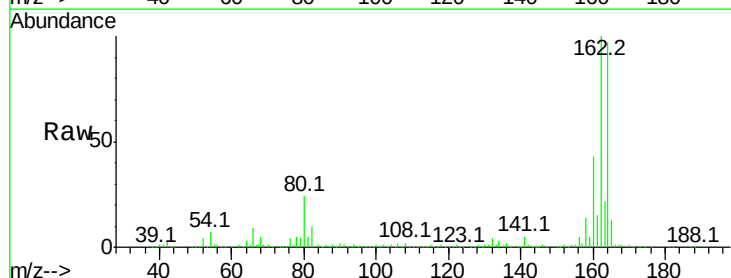


Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E

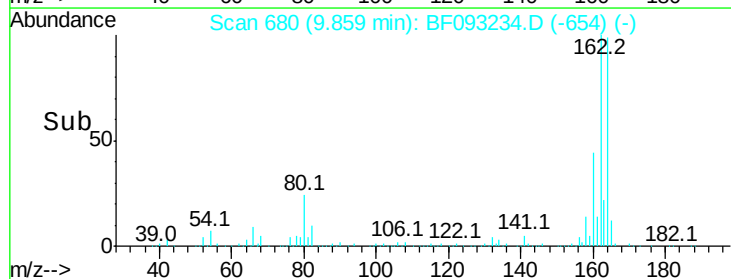
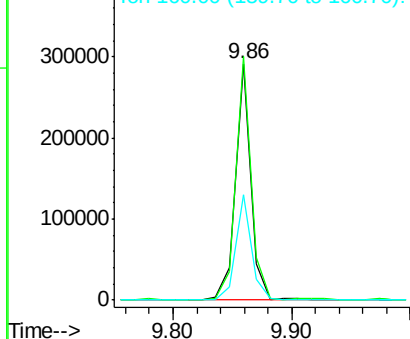


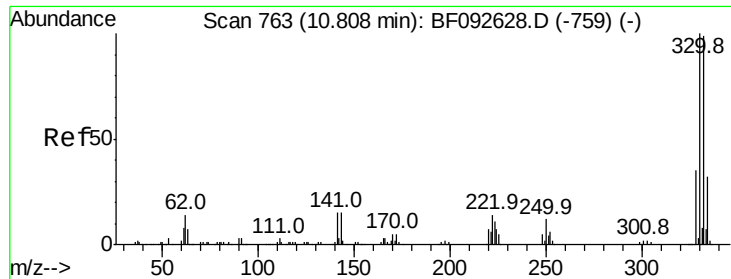
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.86 min Scan# 680
Delta R.T. -0.00 min
Lab File: BF093234.D
Acq: 28 Feb 2017 4:54

Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.0	80.2	120.2
160	44.5	36.9	55.3



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





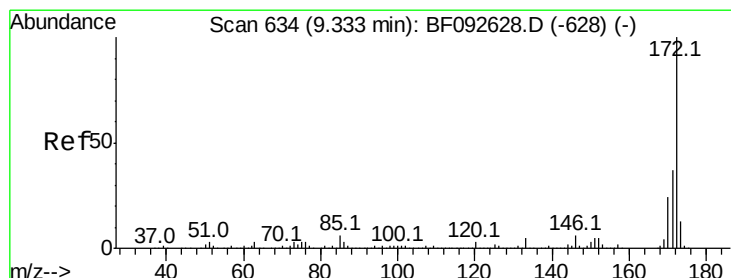
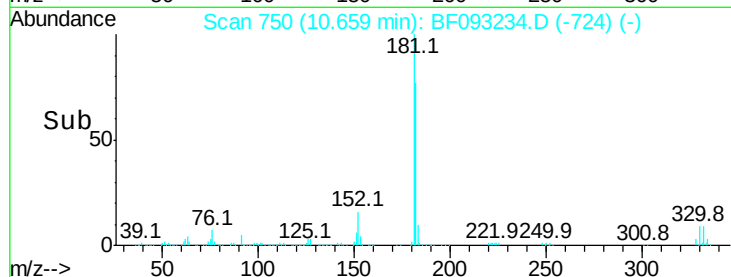
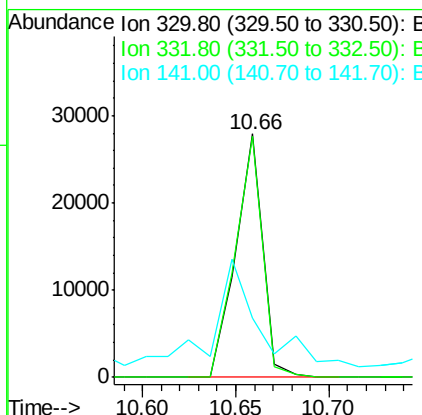
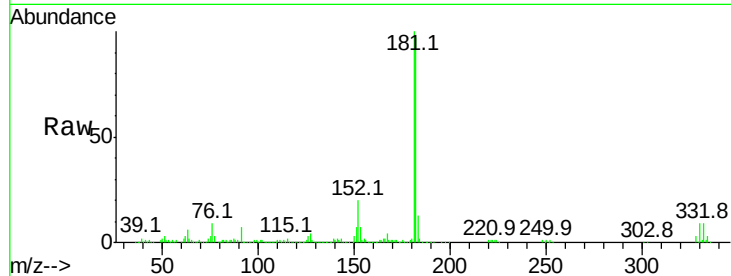
#41
 2,4,6-Tribromophenol
 Concen: 14.82 ng
 RT: 10.66 min Scan# 750
 Delta R.T. -0.00 min
 Lab File: BF093234.D
 Acq: 28 Feb 2017 4:54

Instrument :
 BNA_F
 ClientSampleId :
 E2-B1-B2-BASE-2

Tot Ion	Ratio	Resp	Lower	Upper
330	100			
332	99.7	77.4	116.2	
141	74.6	34.1	51.1#	

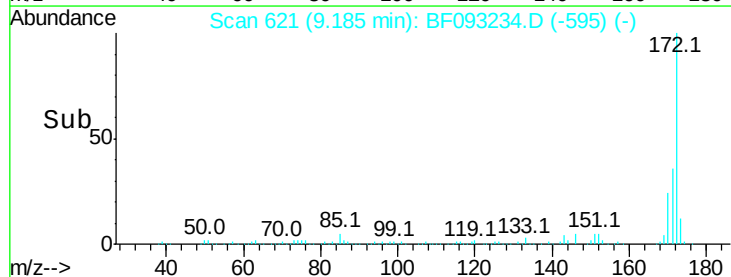
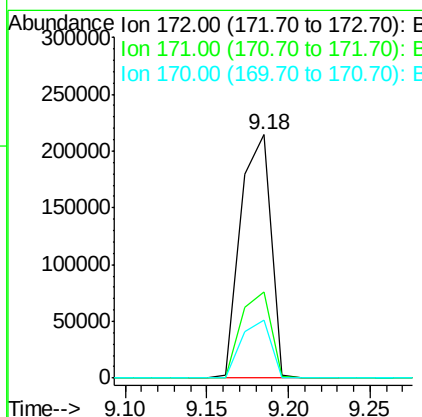
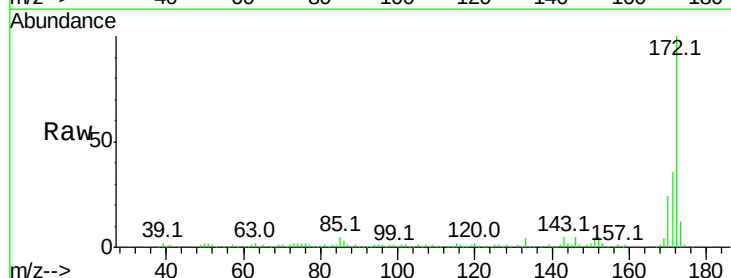
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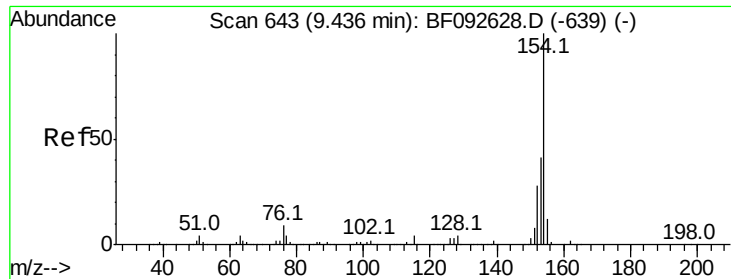
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#44
 2-Fluorobiphenyl
 Concen: 18.84 ng
 RT: 9.18 min Scan# 621
 Delta R.T. -0.00 min
 Lab File: BF093234.D
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Tgt Ion	Ratio	Resp	Lower	Upper
172	100			
171	35.6	29.4	44.0	
170	23.7	20.2	30.4	





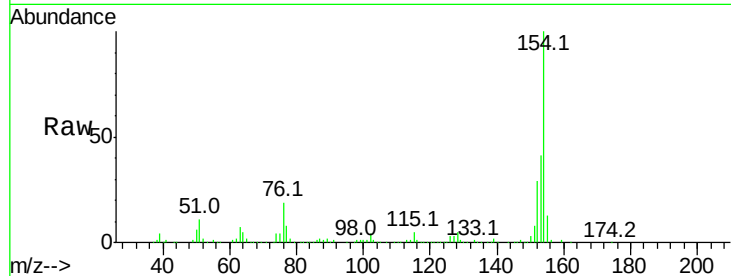
#45
1,1'-Biphenyl
Concen: 17.44 ng
RT: 9.28 min Scan# 629
Delta R.T. -0.01 min
Lab File: BF093234.D
Acq: 28 Feb 2017 4:54

Instrument :
BNA_F
ClientSampleId :
E2-B1-B2-BASE-2

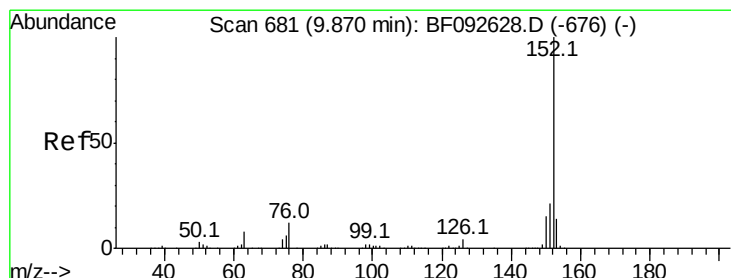
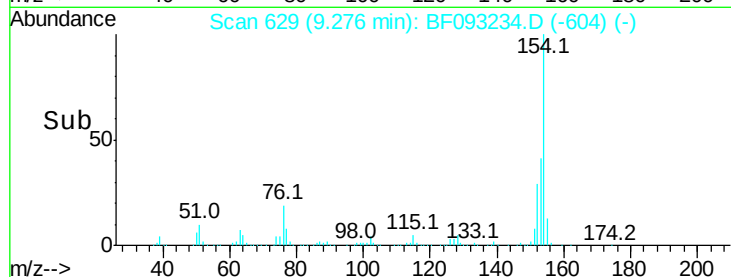
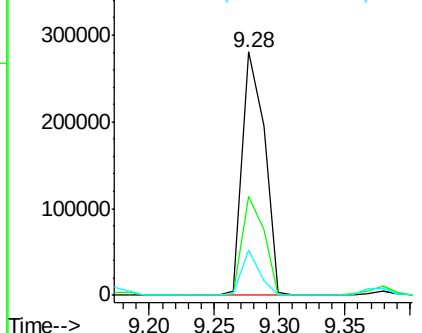
Tot Ion	Ratio	Resp	Lower	Upper
154	100			
153	40.6	20.9	60.9	
76	18.6	0.0	30.5	

Manual Integrations
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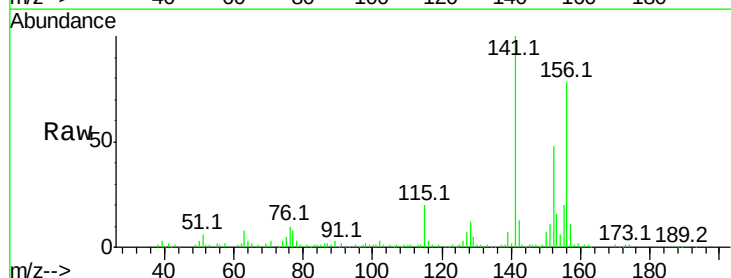


Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 76.00 (75.70 to 76.70): BF0

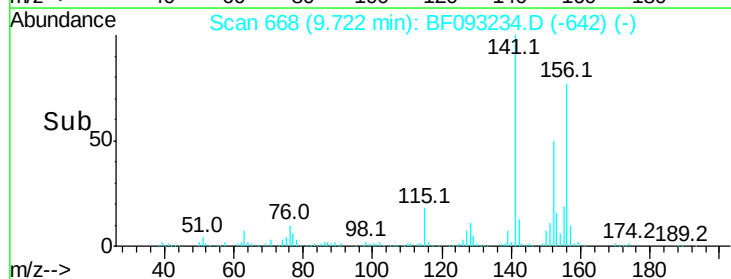
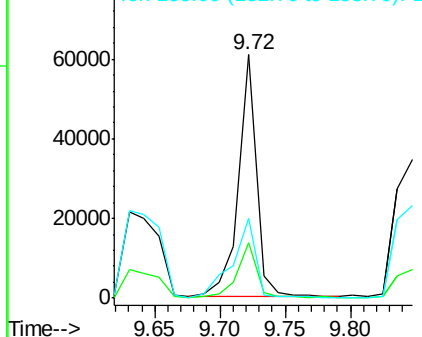


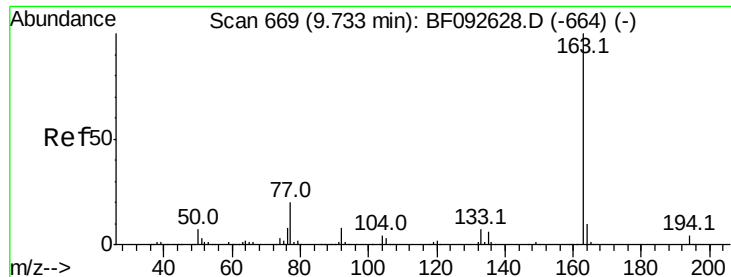
#48
Acenaphthylene
Concen: 2.26 ng
RT: 9.72 min Scan# 668
Delta R.T. -0.00 min
Lab File: BF093234.D
Acq: 28 Feb 2017 4:54

Tgt Ion	Ratio	Resp	Lower	Upper
152	100			
151	22.6	16.9	25.3	
153	33.0	11.4	17.2#	



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





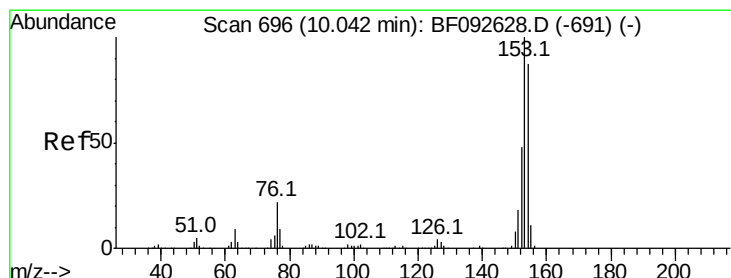
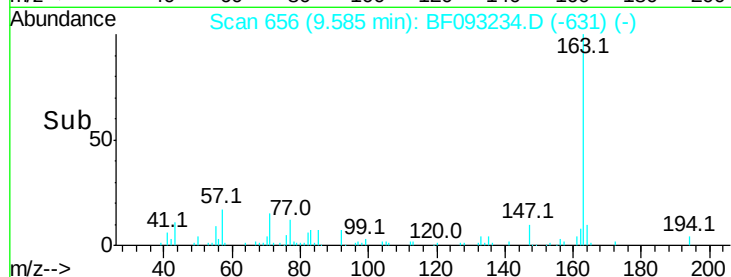
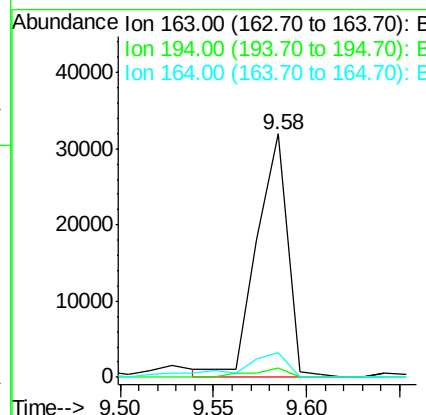
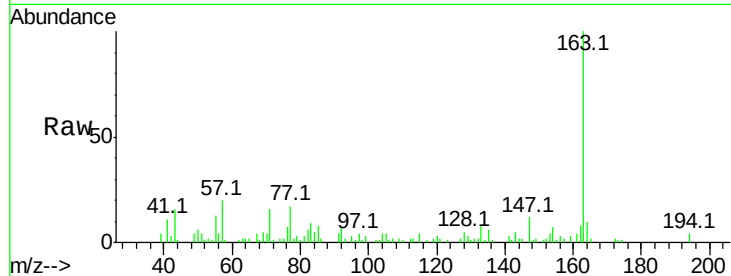
#49
Dimethylphthalate
Concen: 2.05 ng
RT: 9.58 min Scan# 656
Delta R.T. -0.01 min
Lab File: BF093234.D
Acq: 28 Feb 2017 4:54

Instrument :
BNA_F
ClientSampleId :
E2-B1-B2-BASE-2

Tot Ion	Ratio	Resp	Lower	Upper
163	100			
194	3.7	3.0	4.4	
164	10.1	8.0	12.0	

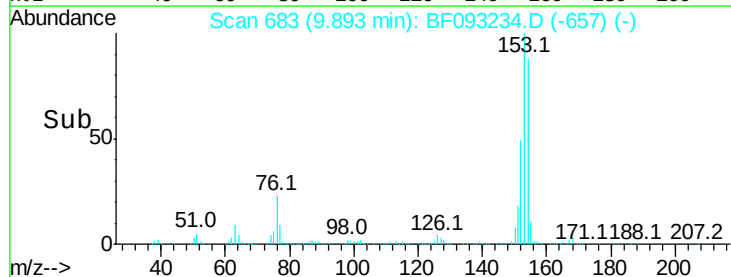
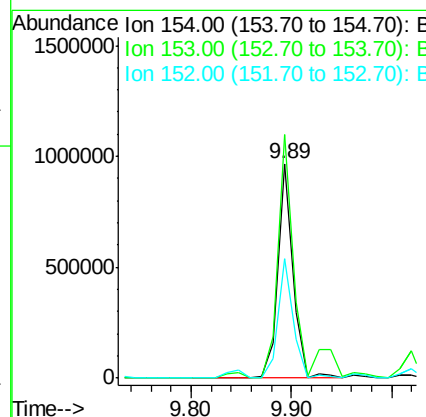
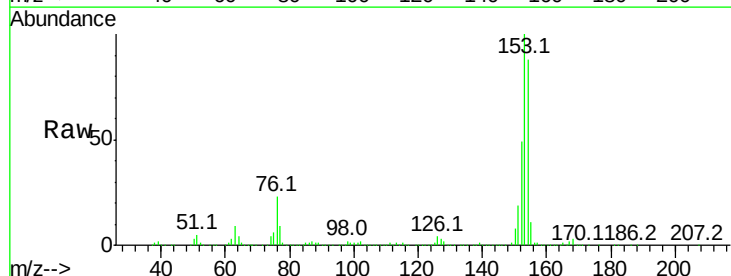
Manual Integrations
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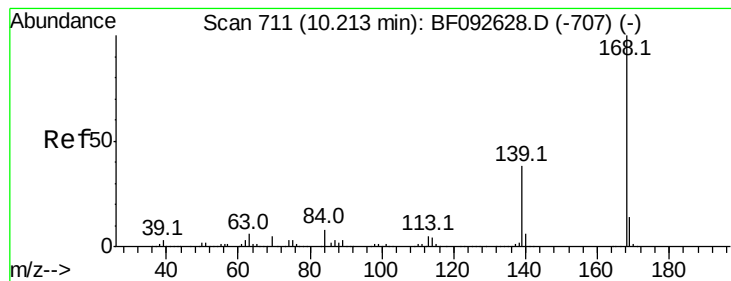
mohammad
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#51
Acenaphthene
Concen: 65.60 ng
RT: 9.89 min Scan# 683
Delta R.T. -0.00 min
Lab File: BF093234.D
Acq: 28 Feb 2017 4:54

Tgt Ion	Ratio	Resp	Lower	Upper
154	100			
153	113.5	88.6	133.0	
152	55.4	41.6	62.4	





#54

Dibenzofuran

Concen: 80.54 ng

RT: 10.06 min Scan# 698

Delta R.T. -0.00 min

Lab File: BF093234.D

Acq: 28 Feb 2017 4:54

Instrument :

BNA_F

ClientSampleId :

E2-B1-B2-BASE-2

Tot Ion:168 Resp: 1662426

Ion Ratio Lower Upper

168 100

139 39.8 32.6 49.0

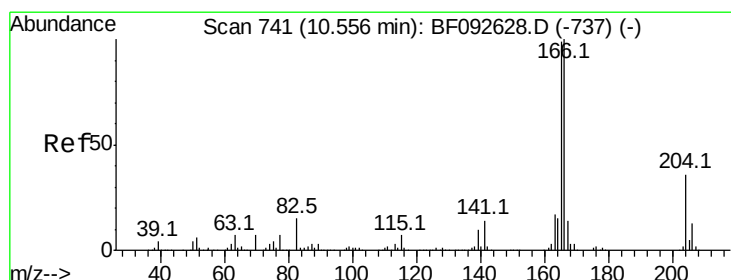
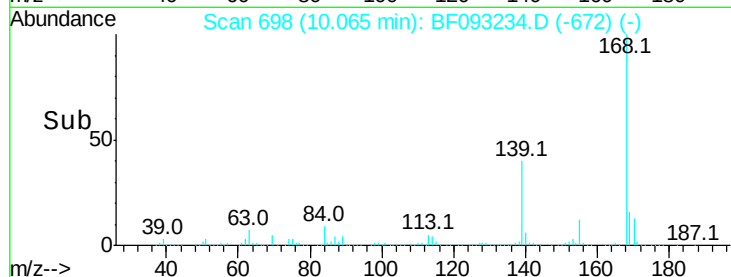
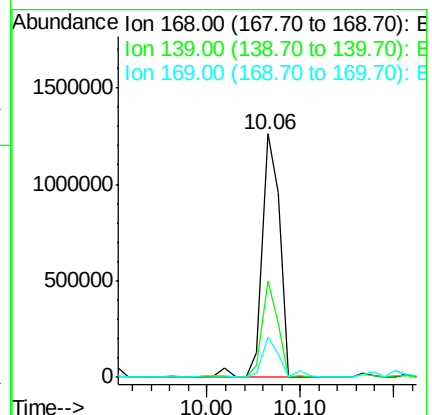
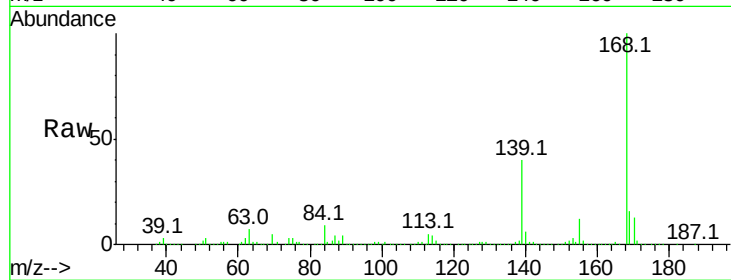
169 16.4 11.3 16.9

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#57

Fluorene

Concen: 101.22 ng m

RT: 10.42 min Scan# 729

Delta R.T. 0.01 min

Lab File: BF093234.D

Acq: 28 Feb 2017 4:54

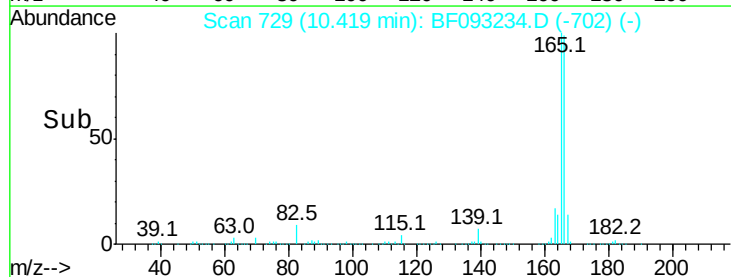
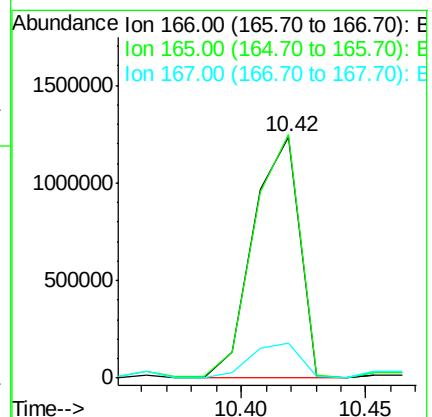
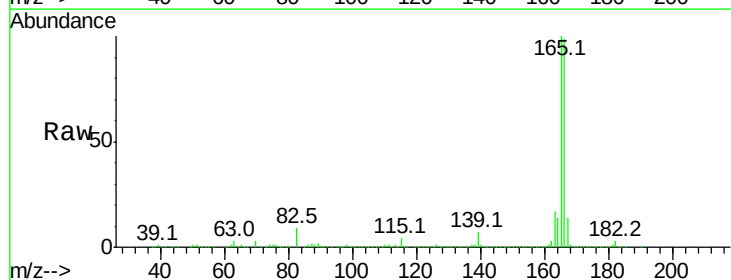
Tgt Ion:166 Resp: 1607306

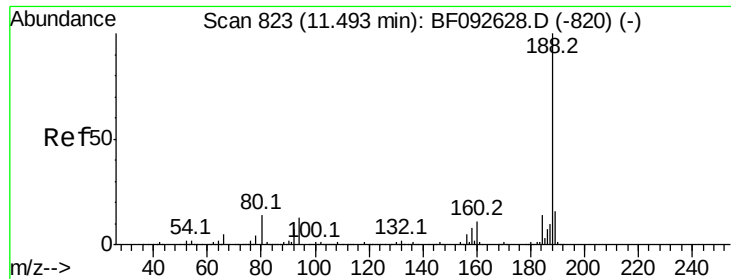
Ion Ratio Lower Upper

166 100

165 101.0 77.8 116.8

167 14.5 10.8 16.2





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.36 min Scan# 811

Delta R.T. 0.01 min

Lab File: BF093234.D

Acq: 28 Feb 2017 4:54

Instrument :

BNA_F

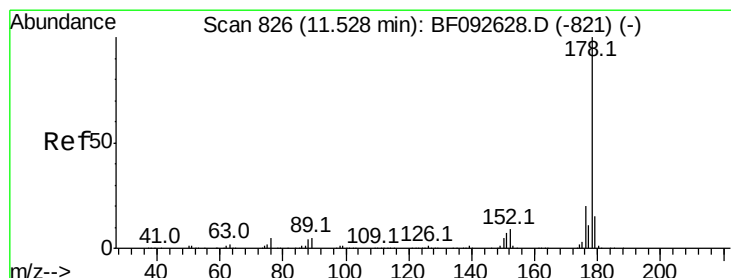
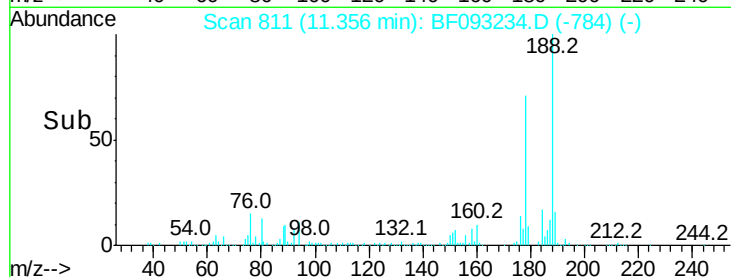
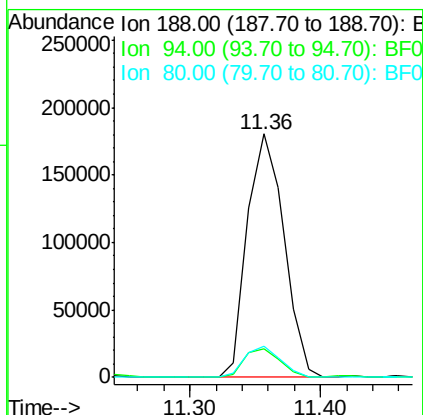
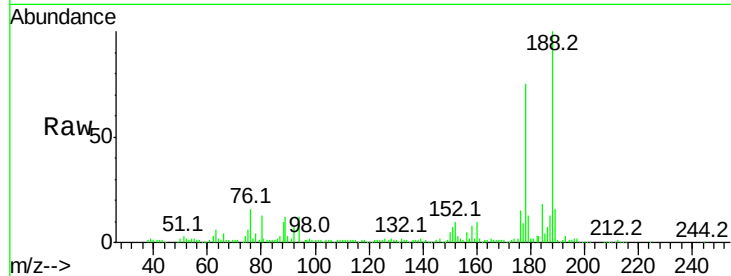
ClientSampleId :

E2-B1-B2-BASE-2

Tot Ion:	188	Resp:	353524
Ion Ratio	Lower	Upper	
188	100		
94	11.5	10.0	15.0
80	13.0	11.2	16.8

Manual Integrations
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#70

Phenanthrene

Concen: 395.76 ng

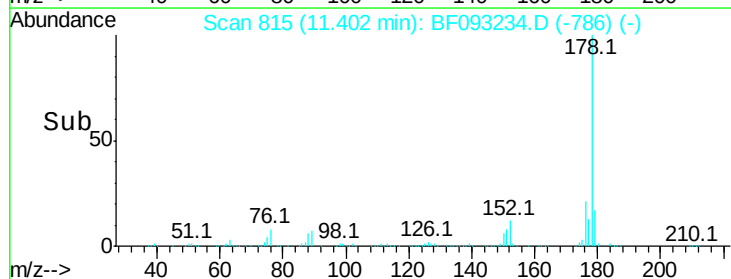
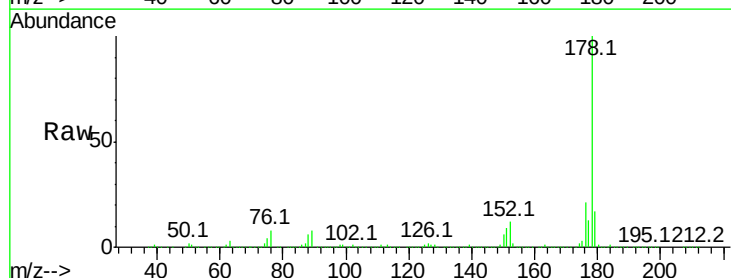
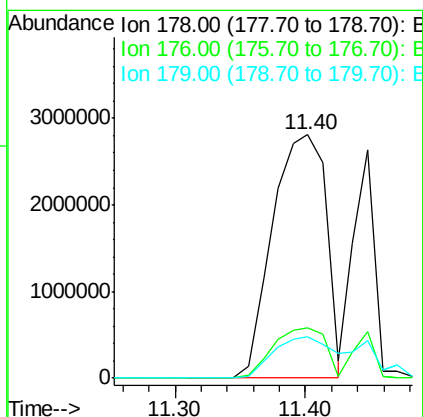
RT: 11.40 min Scan# 815

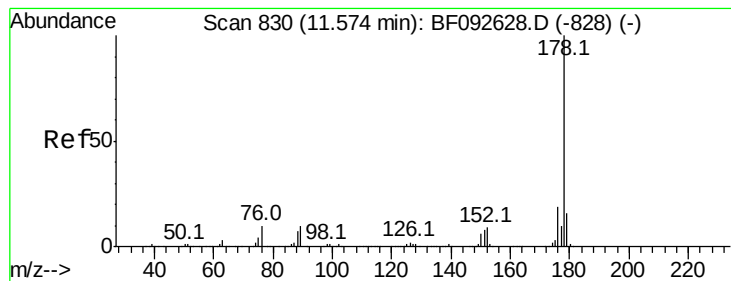
Delta R.T. 0.03 min

Lab File: BF093234.D

Acq: 28 Feb 2017 4:54

Tgt Ion:	178	Resp:	8015715
Ion Ratio	Lower	Upper	
178	100		
176	20.9	16.6	25.0
179	16.8	12.8	19.2





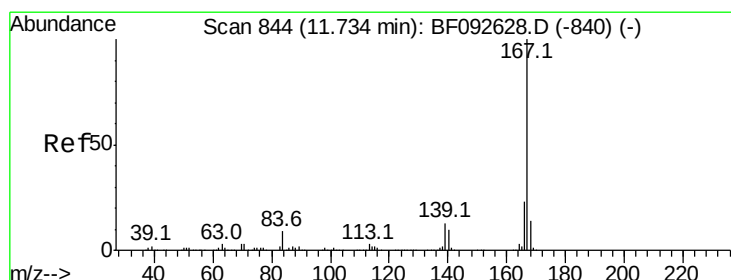
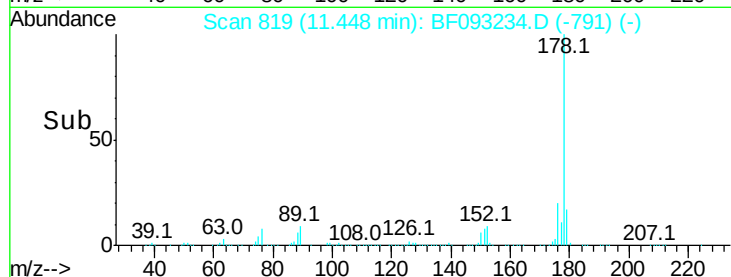
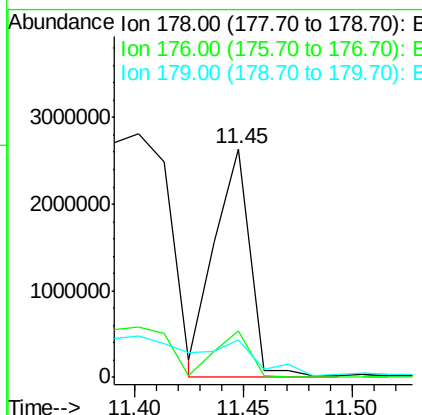
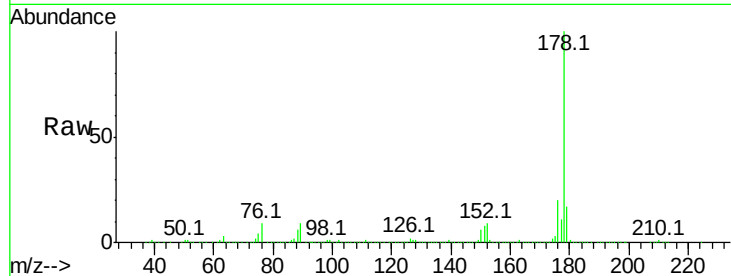
#71
 Anthracene
 Concen: 147.25 ng
 RT: 11.45 min Scan# 819
 Delta R.T. 0.02 min
 Lab File: BF093234.D
 Acq: 28 Feb 2017 4:54

Instrument :
 BNA_F
 ClientSampleId :
 E2-B1-B2-BASE-2

Tot Ion:178 Resp: 2994948
 Ion Ratio Lower Upper
 178 100
 176 20.4 15.9 23.9
 179 16.7 13.2 19.8

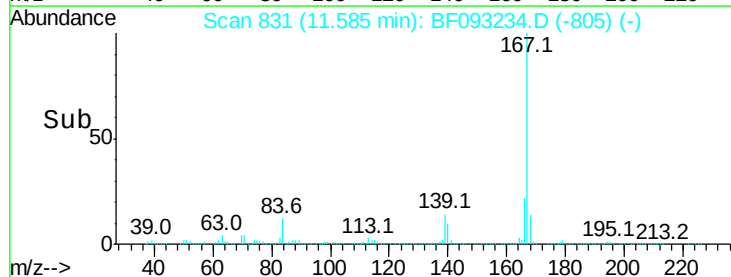
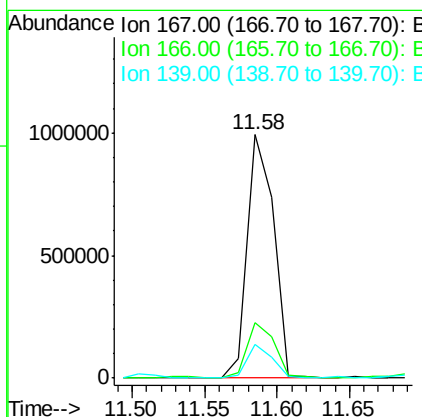
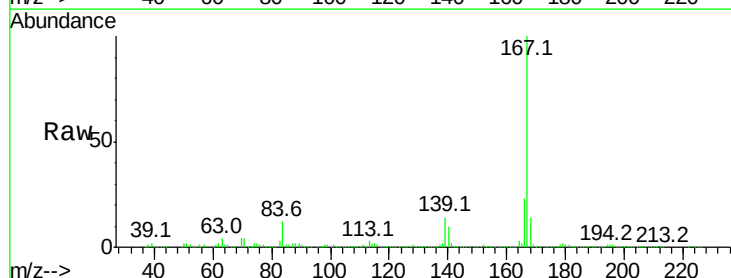
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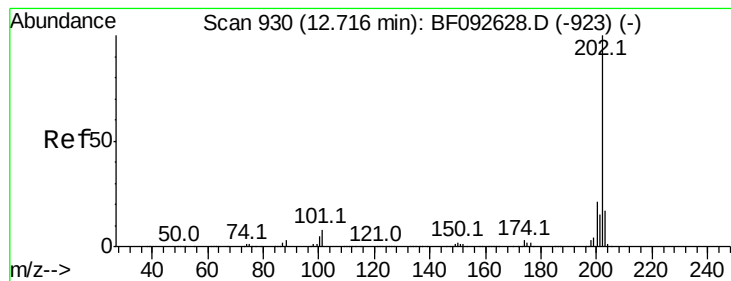
mohammad
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#72
 Carbazole
 Concen: 64.15 ng
 RT: 11.58 min Scan# 831
 Delta R.T. -0.00 min
 Lab File: BF093234.D
 Acq: 28 Feb 2017 4:54

Tgt Ion:167 Resp: 1247224
 Ion Ratio Lower Upper
 167 100
 166 22.6 18.2 27.2
 139 13.8 11.4 17.2





#74

Fluoranthene

Concen: 332.71 ng

RT: 12.60 min Scan# 920

Delta R.T. 0.05 min

Lab File: BF093234.D

Acq: 28 Feb 2017 4:54

Instrument :

BNA_F

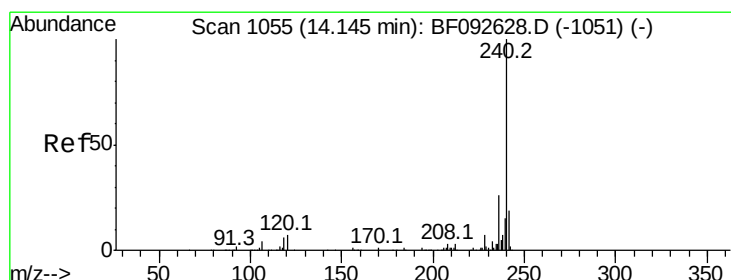
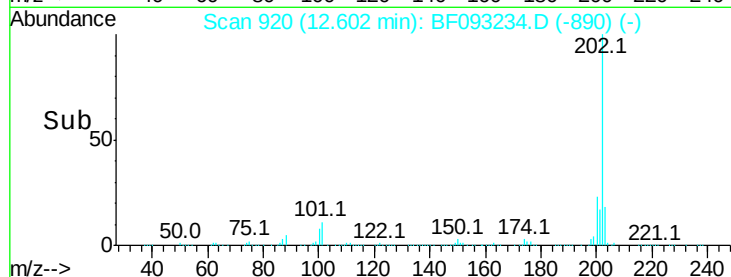
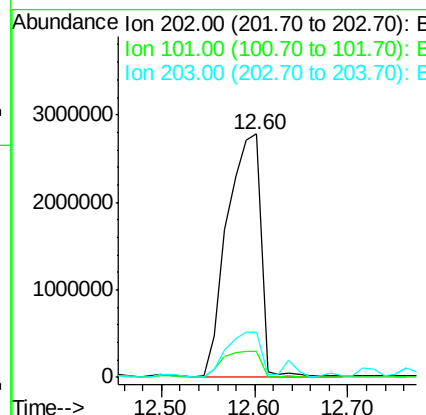
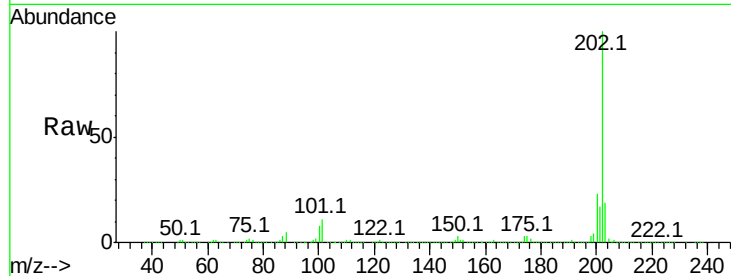
ClientSampleId :

E2-B1-B2-BASE-2

Tot Ion:	202	Resp:	6950926
Ion	Ratio	Lower	Upper
202	100		
101	10.8	0.0	34.6
203	18.5	0.0	38.7

Manual Integrations
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#75

Chrysene-d12

Concen: 20.00 ng

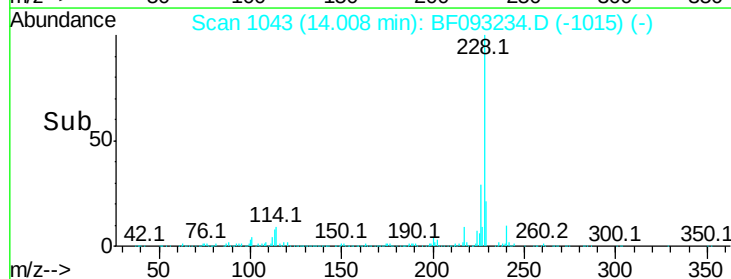
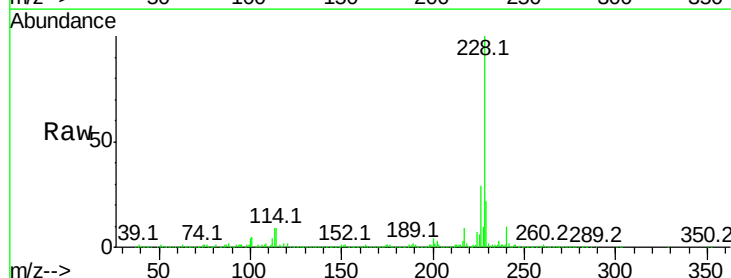
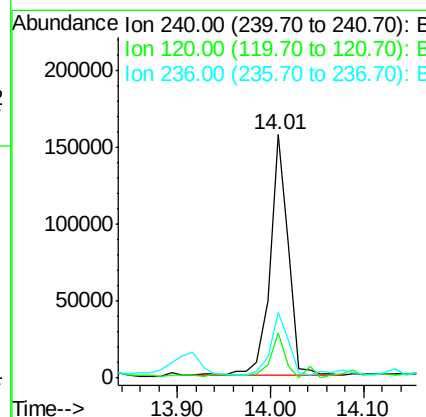
RT: 14.01 min Scan# 1043

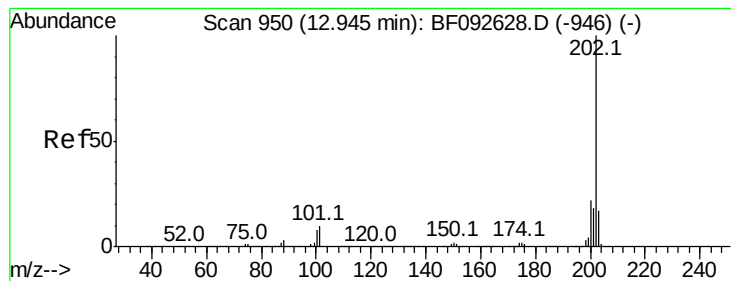
Delta R.T. 0.02 min

Lab File: BF093234.D

Acq: 28 Feb 2017 4:54

Tgt Ion:	240	Resp:	218584
Ion	Ratio	Lower	Upper
240	100		
120	18.4	12.9	19.3
236	27.1	20.9	31.3





#77

Pvrene

Concen: 349.30 ng

RT: 12.83 min Scan# 940

Delta R.T. 0.05 min

Lab File: BF093234.D

Acq: 28 Feb 2017 4:54

Instrument :

BNA_F

ClientSampleId :

E2-B1-B2-BASE-2

Tot Ion:202 Resp: 5713808

Ion Ratio Lower Upper

202 100

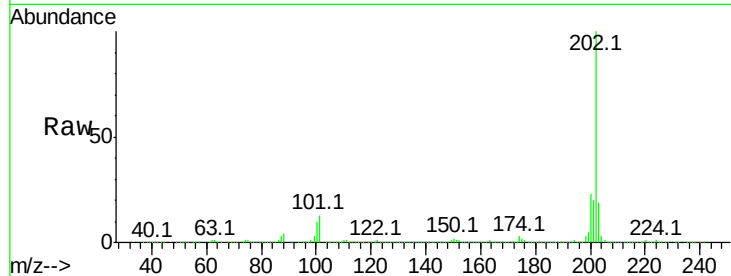
200 23.1 17.7 26.5

203 19.4 14.7 22.1

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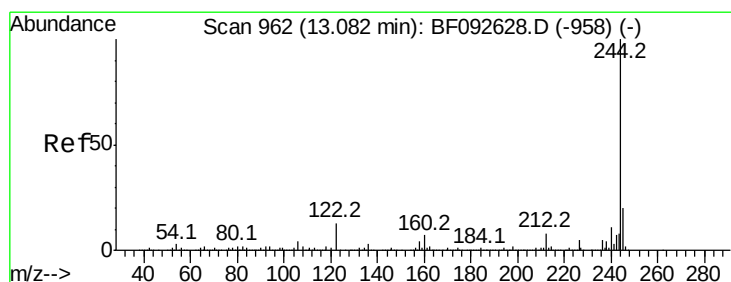
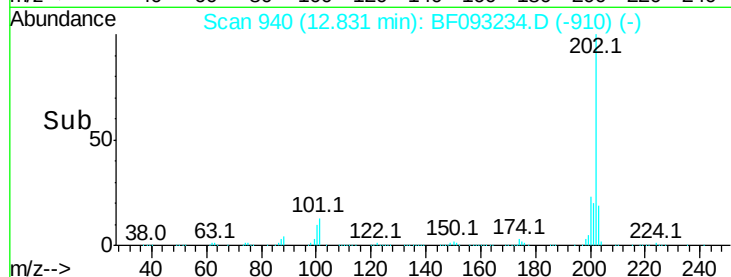
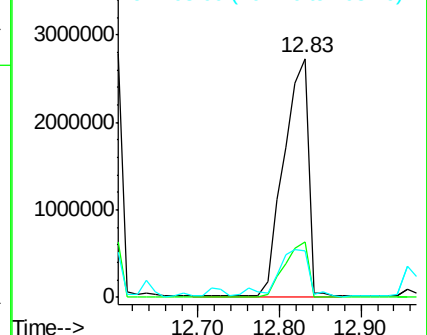
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Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 20.03 ng

RT: 12.93 min Scan# 949

Delta R.T. -0.00 min

Lab File: BF093234.D

Acq: 28 Feb 2017 4:54

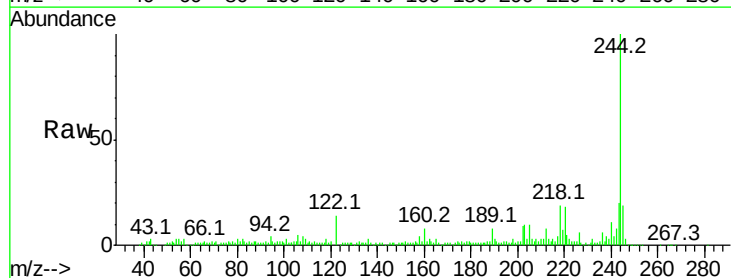
Tgt Ion:244 Resp: 186348

Ion Ratio Lower Upper

244 100

212 7.5 6.2 9.2

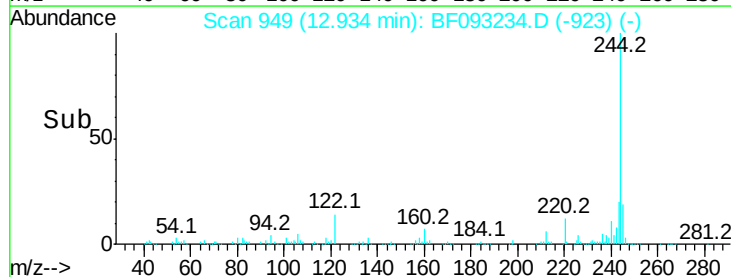
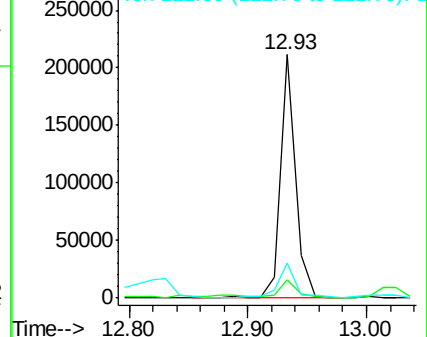
122 14.5 11.4 17.2

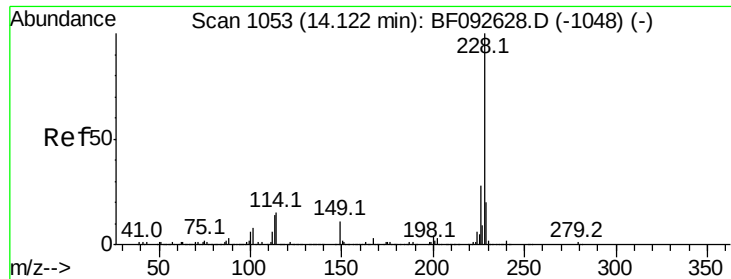


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





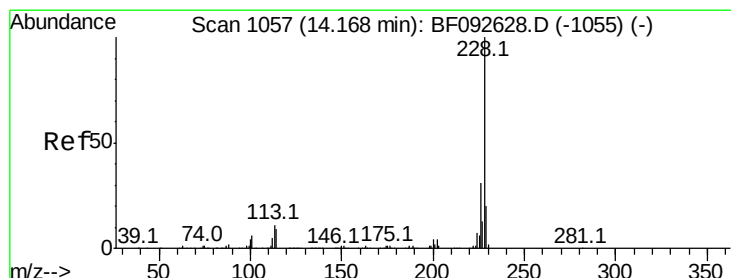
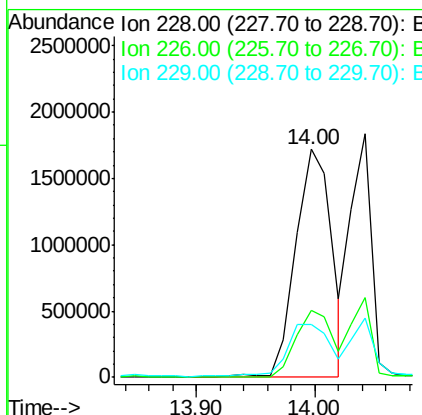
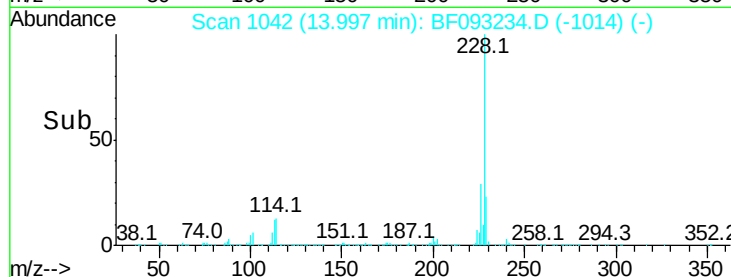
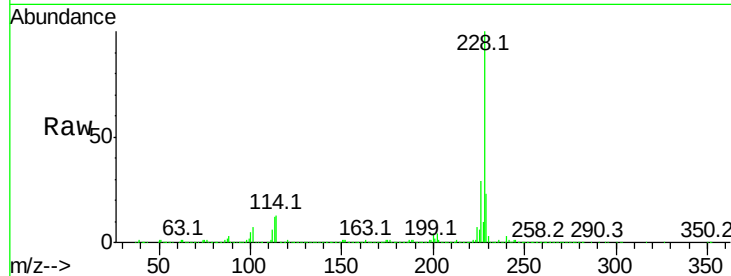
#80
Benzo(a)anthracene
Concen: 268.78 ng
RT: 14.00 min Scan# 1042
Delta R.T. 0.02 min
Lab File: BF093234.D
Acq: 28 Feb 2017 4:54

Instrument :
BNA_F
ClientSampleId :
E2-B1-B2-BASE-2

Tot Ion:228 Resp: 3593338
Ion Ratio Lower Upper
228 100
226 29.2 22.4 33.6
229 23.2 16.2 24.4

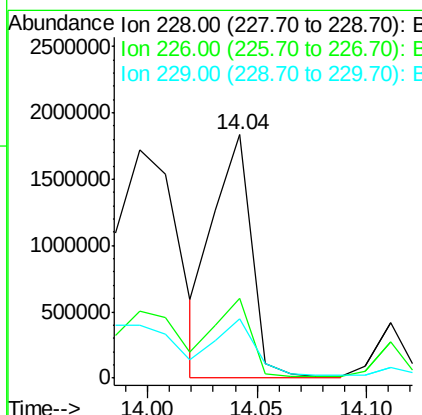
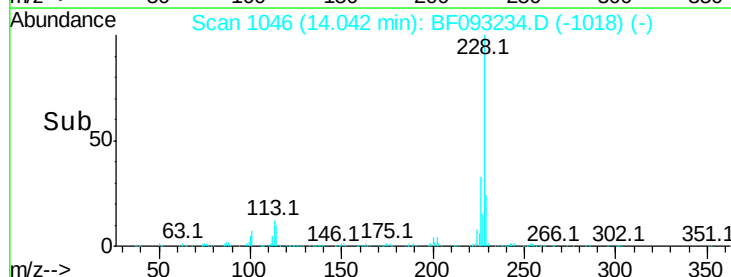
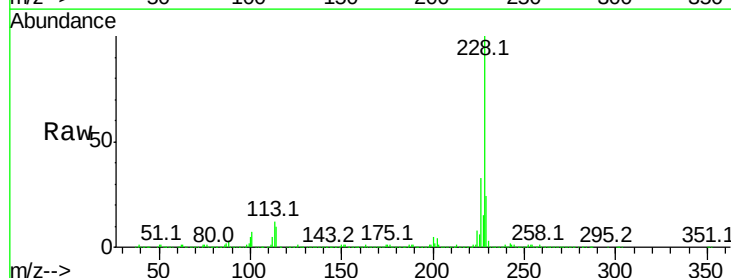
Manual Integrations
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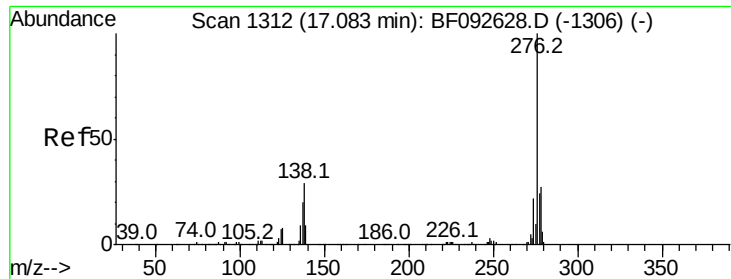
mohammad
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#82
Chrysene
Concen: 179.19 ng m
RT: 14.04 min Scan# 1046
Delta R.T. 0.02 min
Lab File: BF093234.D
Acq: 28 Feb 2017 4:54

Tgt Ion:228 Resp: 2242934
Ion Ratio Lower Upper
228 100
226 32.9 25.4 38.0
229 24.1 16.2 24.2





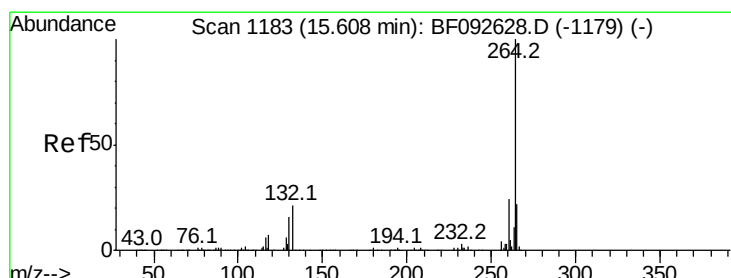
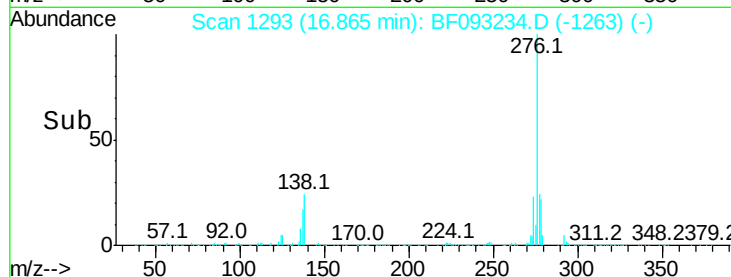
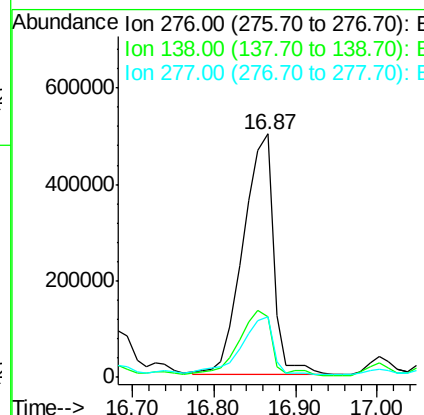
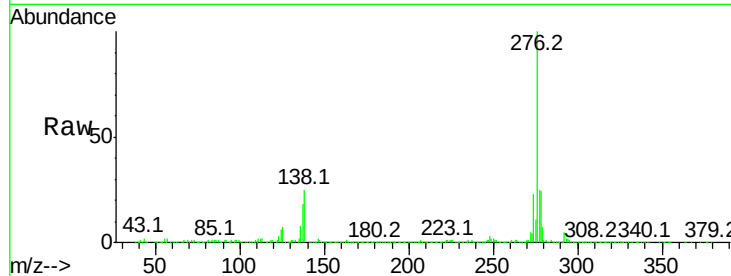
#85
Indeno(1,2,3-cd)pyrene
Concen: 133.55 ng
RT: 16.87 min Scan# 1293
Delta R.T. 0.05 min
Lab File: BF093234.D
Acq: 28 Feb 2017 4:54

Instrument :
BNA_F
ClientSampleId :
E2-B1-B2-BASE-2

Tot Ion	Ratio	Lower	Upper
276	100		
138	30.5	21.8	32.6
277	25.4	20.2	30.4

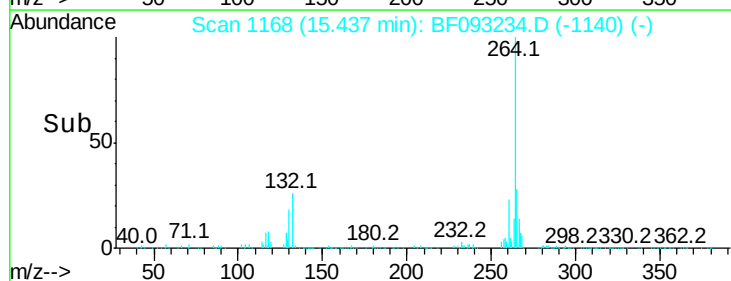
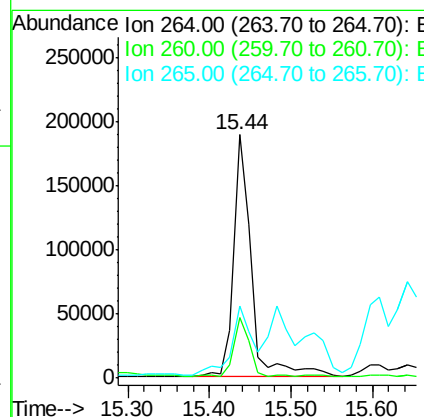
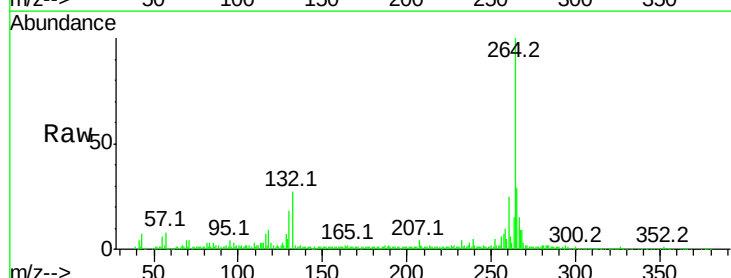
Manual Integrations
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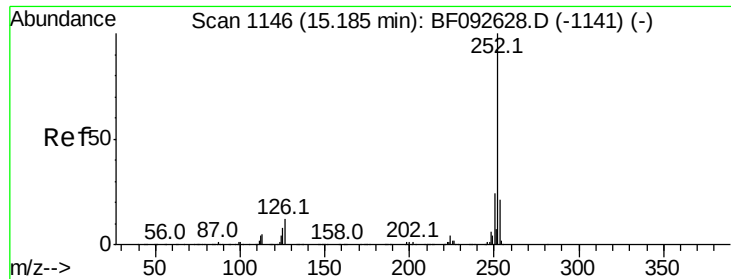
mohammad
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#86
Perylene-d12
Concen: 20.00 ng
RT: 15.44 min Scan# 1168
Delta R.T. 0.02 min
Lab File: BF093234.D
Acq: 28 Feb 2017 4:54

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.8	19.2	28.8
265	29.5	17.4	26.0





#87

Benzo(b)fluoranthene

Concen: 145.58 ng m

RT: 15.04 min Scan# 1133

Delta R.T. 0.02 min

Lab File: BF093234.D

Acq: 28 Feb 2017 4:54

Instrument :
BNA_F

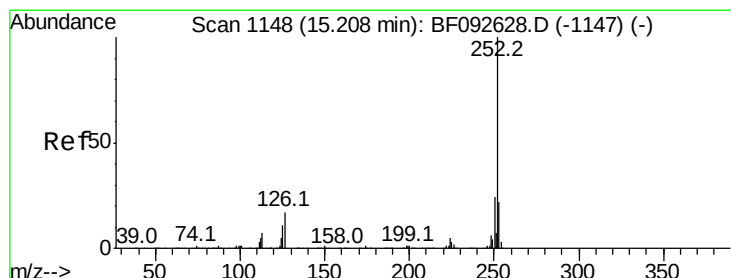
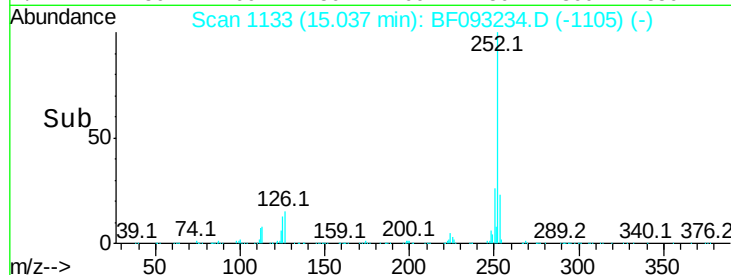
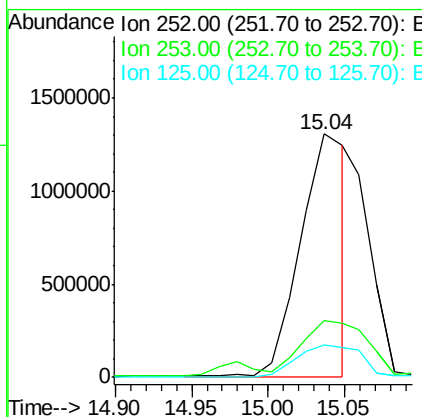
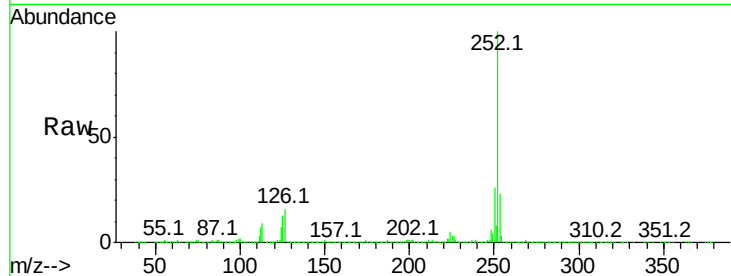
ClientSampleId :
E2-B1-B2-BASE-2

Tot Ion:252 Resp: 2743042

Ion	Ratio	Lower	Upper
252	100		
253	23.2	18.2	27.4
125	13.4	9.8	14.6

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#88

Benzo(k)fluoranthene

Concen: 69.34 ng m

RT: 15.05 min Scan# 1134

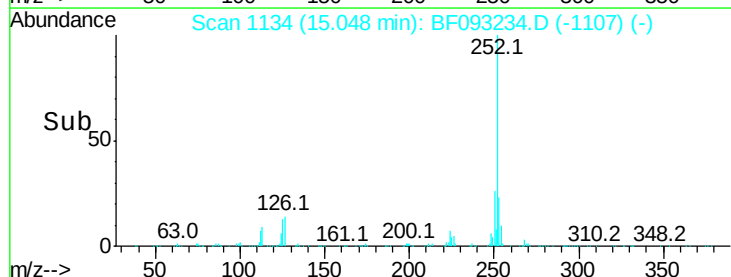
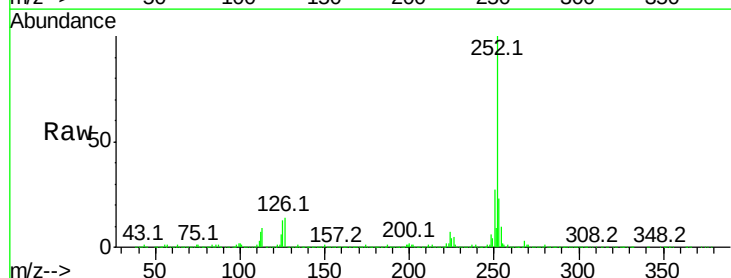
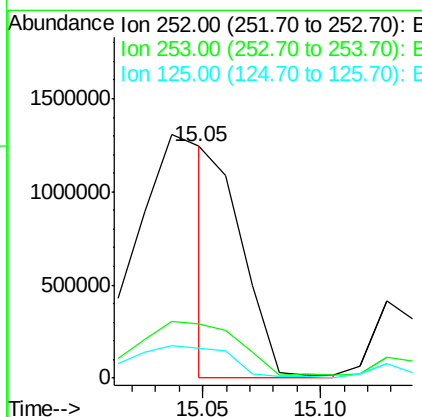
Delta R.T. 0.01 min

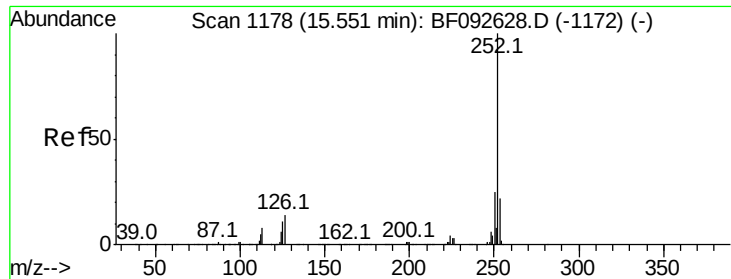
Lab File: BF093234.D

Acq: 28 Feb 2017 4:54

Tgt Ion:252 Resp: 1128010

Ion	Ratio	Lower	Upper
252	100		
253	23.5	18.5	27.7
125	13.0	8.9	13.3





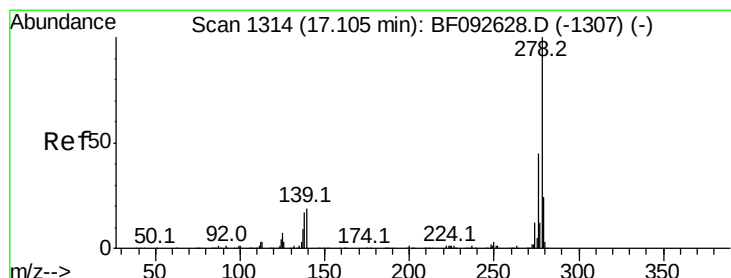
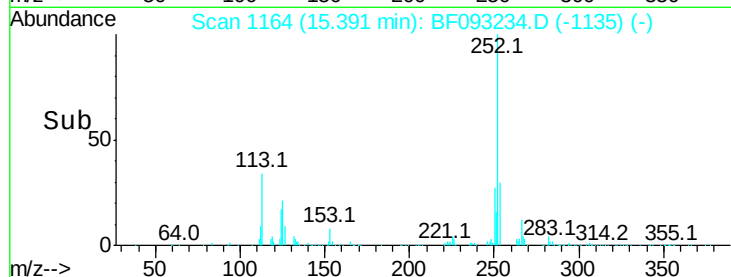
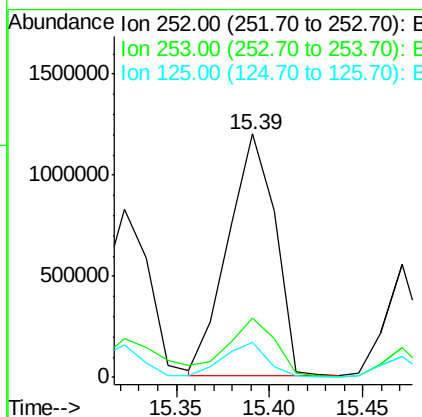
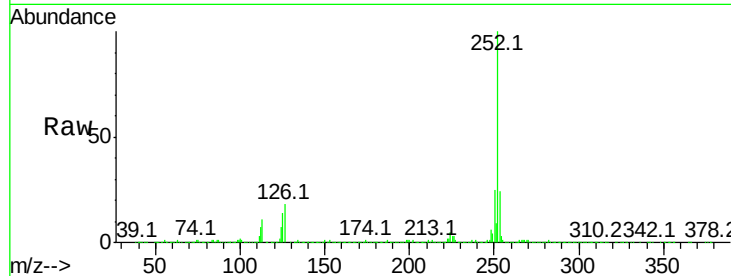
#89
Benzo(a)pyrene
Concen: 129.43 ng
RT: 15.39 min Scan# 1164
Delta R.T. 0.03 min
Lab File: BF093234.D
Acq: 28 Feb 2017 4:54

Instrument :
BNA_F
ClientSampleId :
E2-B1-B2-BASE-2

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.1	18.2	27.2
125	14.4	10.0	15.0

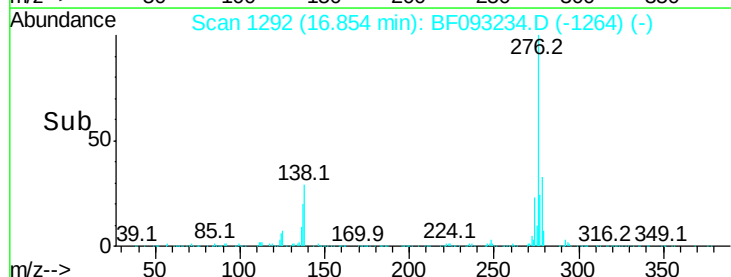
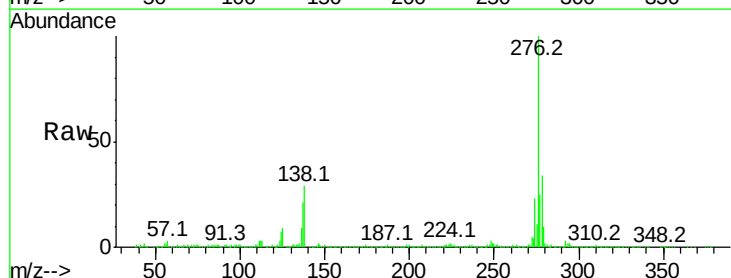
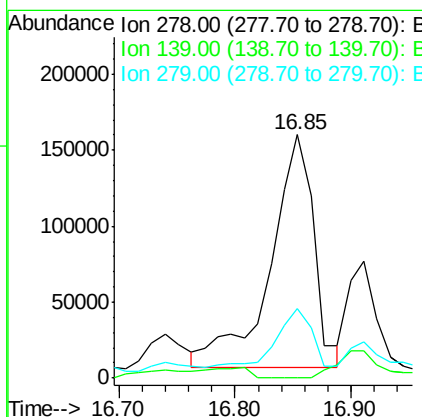
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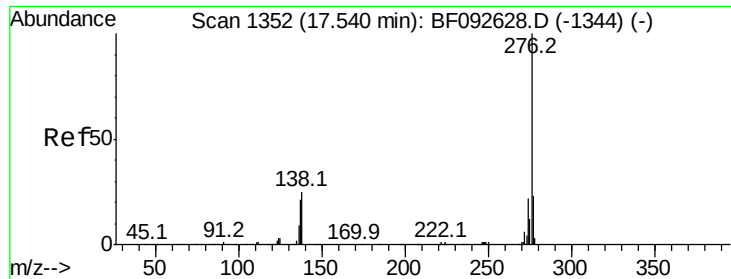
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#90
Dibenzo(a,h)anthracene
Concen: 30.30 ng m
RT: 16.85 min Scan# 1292
Delta R.T. 0.02 min
Lab File: BF093234.D
Acq: 28 Feb 2017 4:54

Tgt Ion	Ratio	Lower	Upper
278	100		
139	0.0	14.8	22.2#
279	28.4	19.8	29.6





#91
 Benzo(a,h,i)perylene
 Concen: 85.12 ng
 RT: 17.29 min Scan# 1330
 Delta R.T. 0.05 min
 Lab File: BF093234.D
 Acq: 28 Feb 2017 4:54

Instrument :
 BNA_F
 ClientSampleId :
 E2-B1-B2-BASE-2

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.6	19.2	28.8
138	28.7	16.0	24.0

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