

Data Path : Z:\HPCHEM1\BNA F\DATA\BF020817\
 Data File : BF092877.D
 Acq On : 9 Feb 2017 2:14
 Operator : SJ/MA
 Sample : I1728-01 10X
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 ROLL-OFF-R2-COMP

Manual Integrations
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 2/9/2017 12:32:07 PM

Quant Time: Feb 09 03:06:17 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF013017.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 08 23:48:40 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.90	152	143499	20.00	ng	0.00
21) Naphthalene-d8	8.18	136	555767	20.00	ng	-0.01
38) Acenaphthene-d10	9.94	164	312169	20.00	ng	0.00
63) Phenanthrene-d10	11.42	188	525096	20.00	ng	0.00
75) Chrysene-d12	14.07	240	406828	20.00	ng	0.00
86) Perylene-d12	15.51	264	328751	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.48	112	107548	12.86	ng	-0.01
7) Phenol-d6	6.52	99	143903	13.37	ng	-0.01
23) Nitrobenzene-d5	7.46	82	81132	8.13	ng	-0.01
41) 2,4,6-Tribromophenol	10.72	330	27237	12.06	ng	-0.01
44) 2-Fluorobiphenyl	9.25	172	168751	9.79	ng	-0.01
78) Terphenyl-d14	13.00	244	155268	8.97	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.20	128	415351	14.74	ng	98
37) 2-Methylnaphthalene	8.90	142	132258m	7.31	ng	
45) 1,1'-Biphenyl	9.36	154	82520	3.65	ng	99
51) Acenaphthene	9.96	154	518802	28.41	ng	96
54) Dibenzofuran	10.13	168	454317	18.60	ng	97
57) Fluorene	10.49	166	612399	32.59	ng	98
70) Phenanthrene	11.45	178	2352667	78.20	ng	99
71) Anthracene	11.49	178	456391	15.11	ng	98
72) Carbazole	11.65	167	106933	3.70	ng	97
74) Fluoranthene	12.65	202	3063111	98.71	ng	95
77) Pyrene	12.88	202	2709502	88.99	ng	100
80) Benzo(a)anthracene	14.05	228	845902	34.00	ng	98
82) Chrysene	14.09	228	1014178	43.53	ng	98
85) Indeno(1,2,3-cd)pyrene	16.92	276	108146	5.99	ng	97
87) Benzo(b)fluoranthene	15.09	252	674147m	31.16	ng	
88) Benzo(k)fluoranthene	15.12	252	180337m	9.65	ng	
89) Benzo(a)pyrene	15.45	252	300331m	16.05	ng	
91) Benzo(g,h,i)perylene	17.36	276	78477	5.14	ng	# 90

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

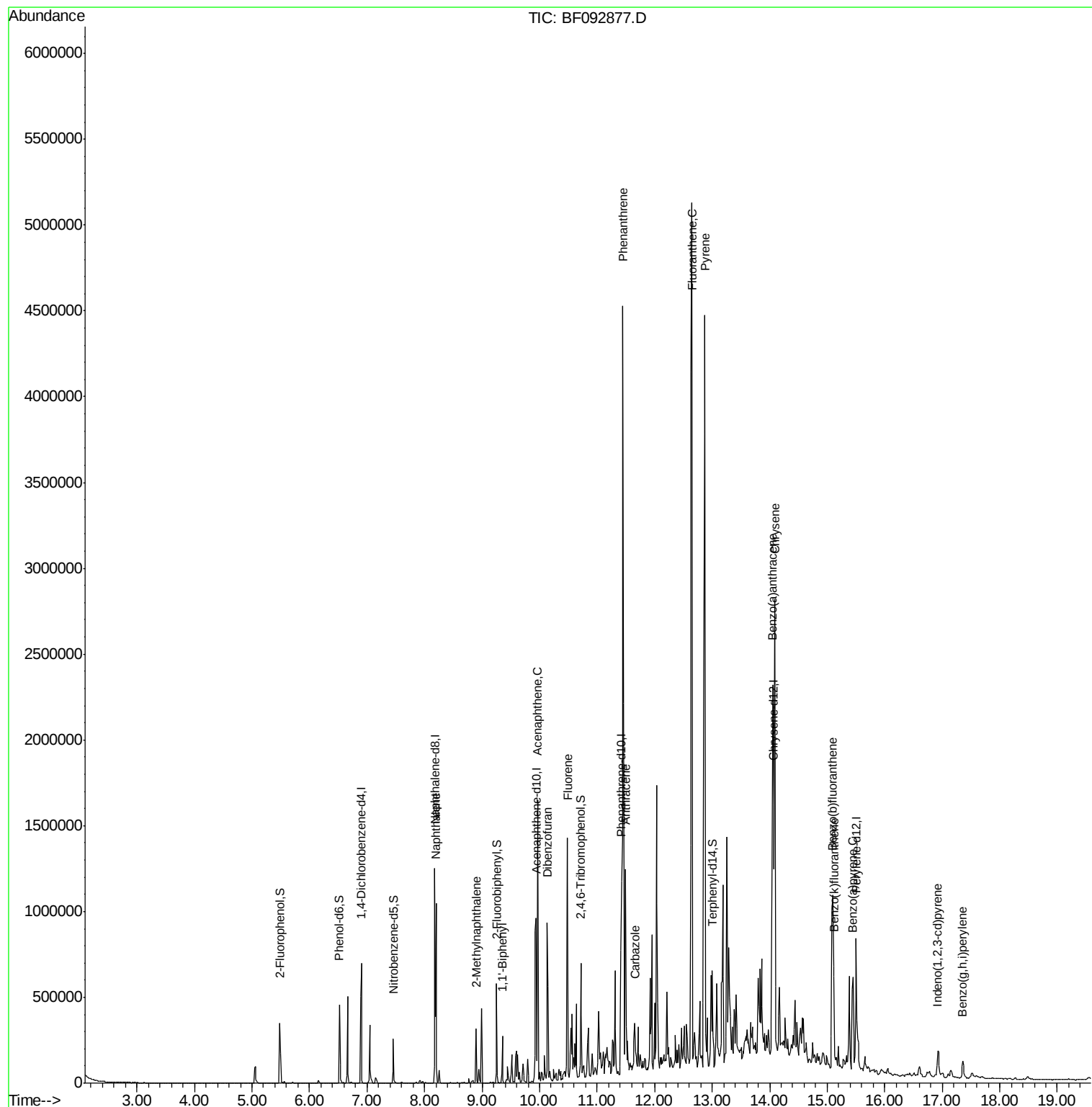
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#1

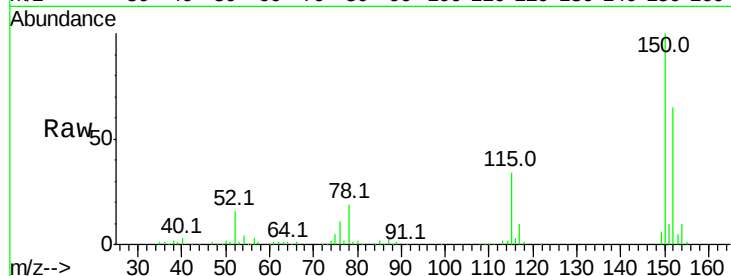
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.90 min Scan# 421
Delta R.T. 0.00 min
Lab File: BF092877.D
Acq: 9 Feb 2017 2:14

Instrument :
BNA_F
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ROLL-OFF-R2-COMP

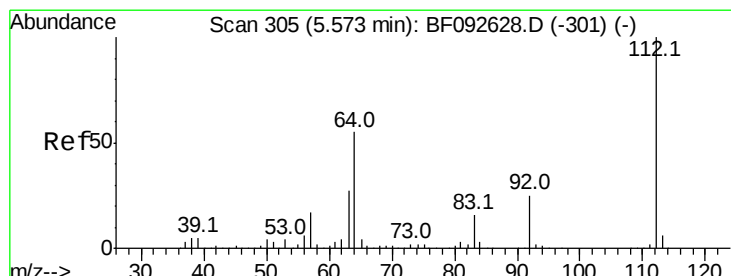
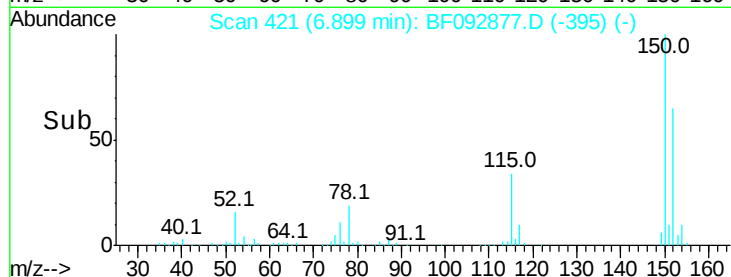
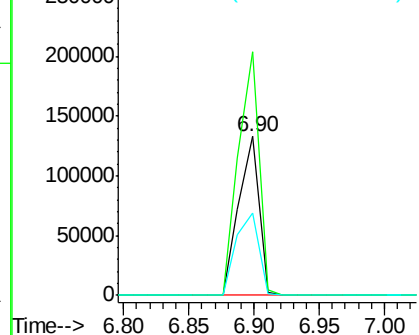
Tot Ion	Ratio	Lower	Upper
152	100		
150	153.4	124.9	187.3
115	52.1	46.0	69.0

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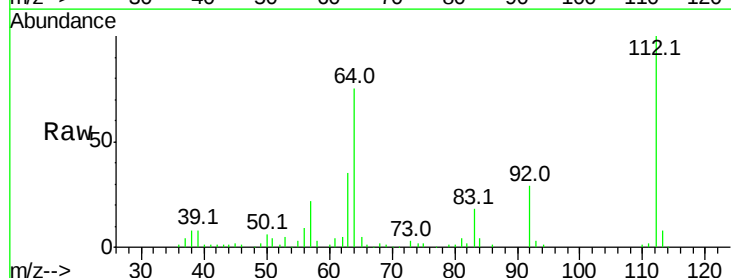
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



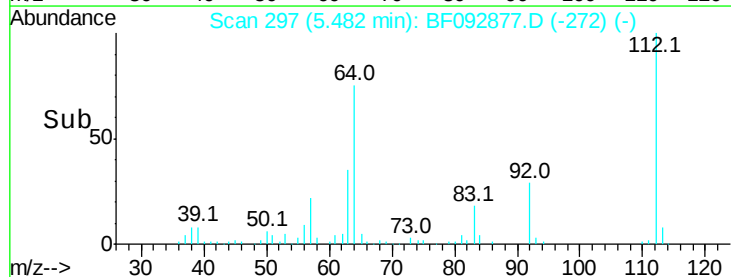
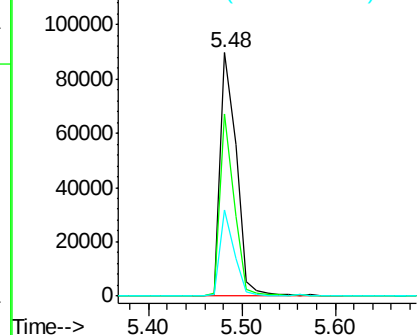
#5

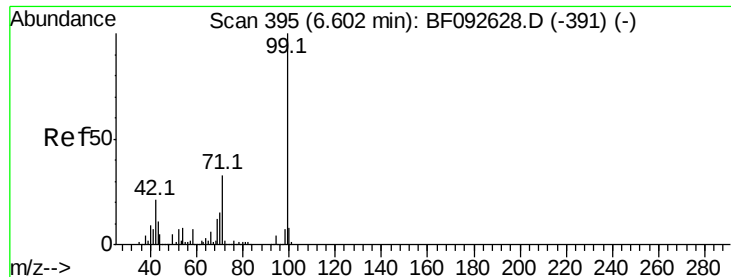
2-Fluorophenol
Concen: 12.86 ng
RT: 5.48 min Scan# 297
Delta R.T. -0.01 min
Lab File: BF092877.D
Acq: 9 Feb 2017 2:14

Tgt Ion	Ratio	Lower	Upper
112	100		
64	74.7	46.1	69.1#
63	35.2	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: 13.37 ng

RT: 6.52 min Scan# 388

Delta R.T. -0.01 min

Lab File: BF092877.D

Acq: 9 Feb 2017 2:14

Instrument :

BNA_F

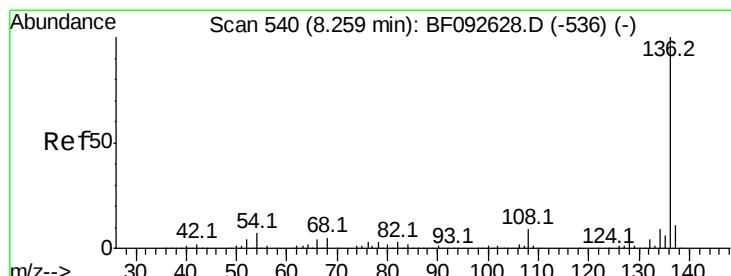
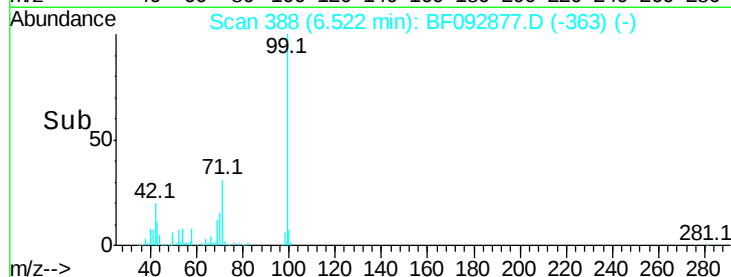
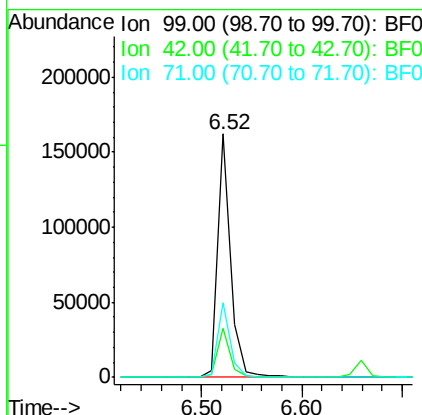
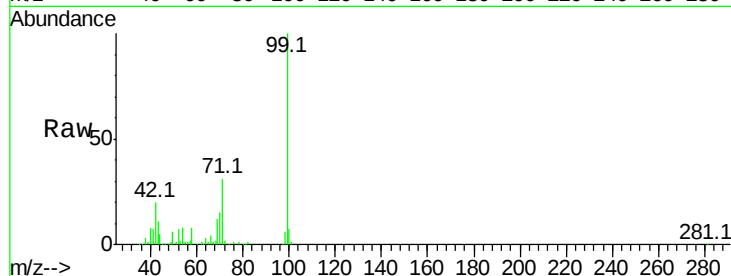
ClientSampleId :

ROLL-OFF-R2-COMP

Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		143903		
42	20.0	15.6	23.4		
71	30.7	27.5	41.3		

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#21

Naphthalene-d8

Concen: 20.00 ng

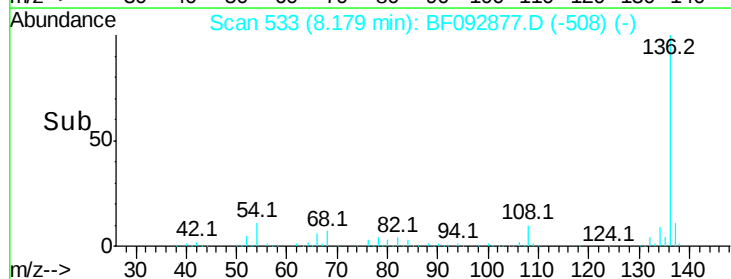
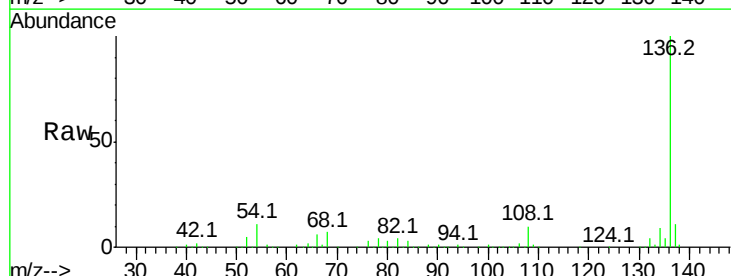
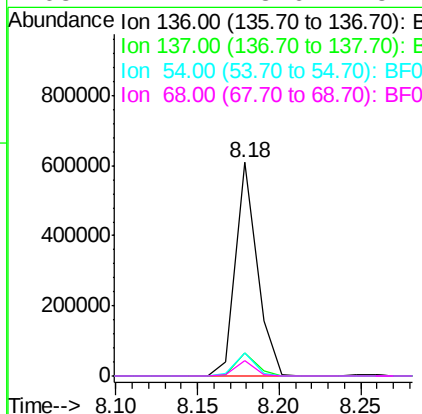
RT: 8.18 min Scan# 533

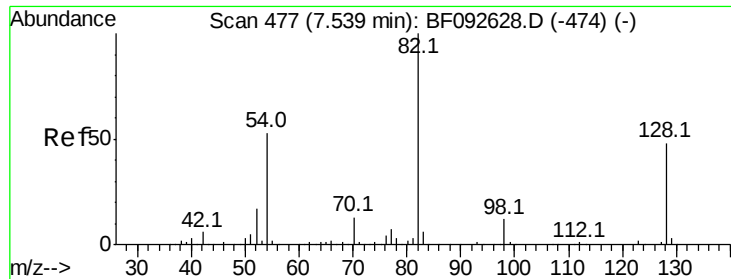
Delta R.T. -0.01 min

Lab File: BF092877.D

Acq: 9 Feb 2017 2:14

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		555767		
137	10.9	8.4	12.6		
54	10.6	4.5	6.7#		
68	7.1	3.6	5.4#		





#23

Nitrobenzene-d5

Concen: 8.13 ng

RT: 7.46 min Scan# 470

Delta R.T. -0.01 min

Lab File: BF092877.D

Acq: 9 Feb 2017 2:14

Instrument :

BNA_F

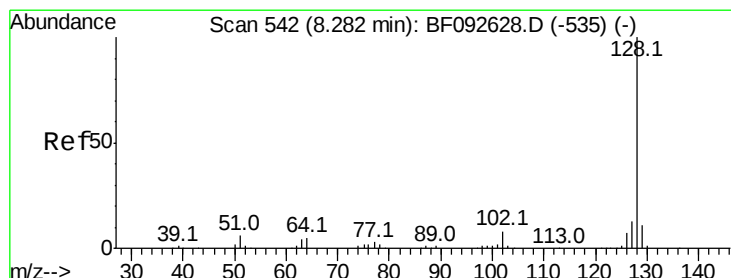
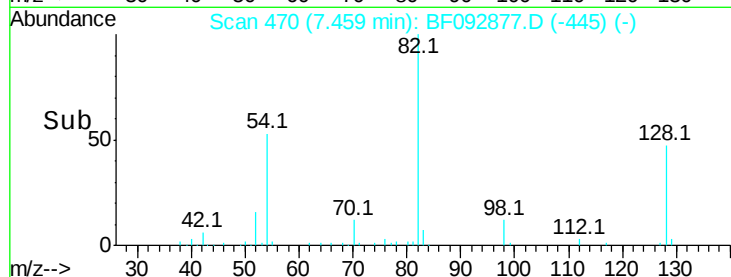
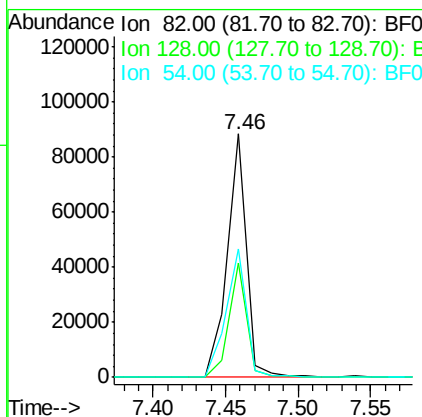
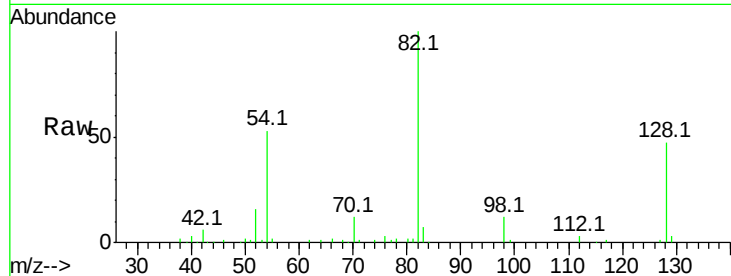
ClientSampleId :

ROLL-OFF-R2-COMP

Tot Ion:	82	Resp:	81132
Ion Ratio	Lower	Upper	
82	100		
128	46.8	34.6	52.0
54	52.6	39.5	59.3

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#31

Naphthalene

Concen: 14.74 ng

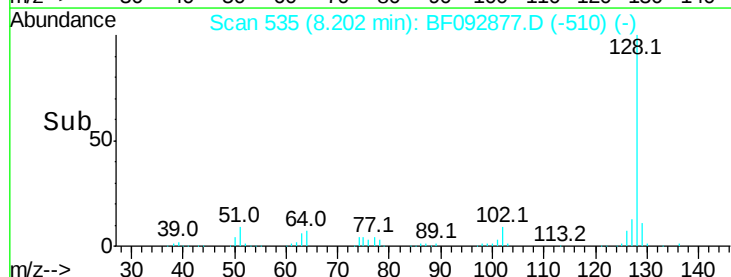
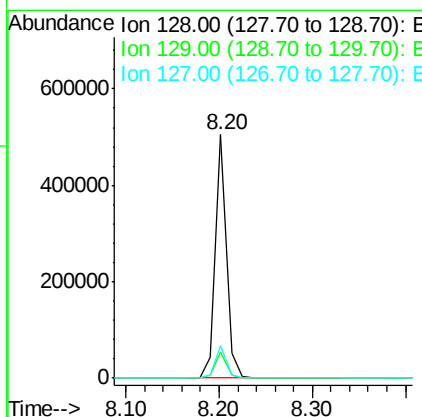
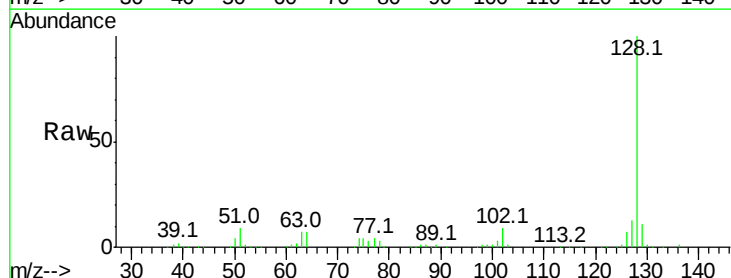
RT: 8.20 min Scan# 535

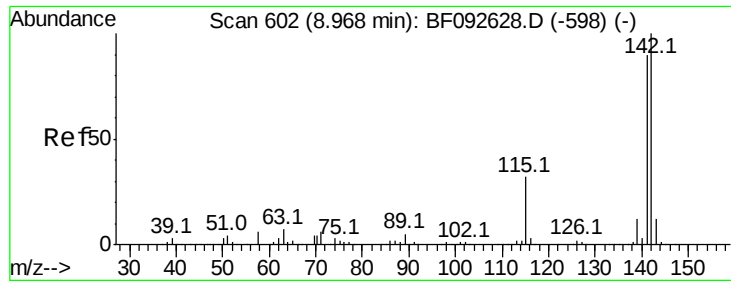
Delta R.T. -0.01 min

Lab File: BF092877.D

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Tgt Ion:	128	Resp:	415351
Ion Ratio	Lower	Upper	
128	100		
129	10.9	9.5	14.3
127	13.2	10.8	16.2





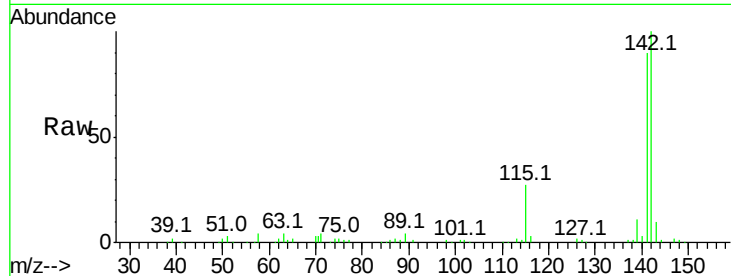
#37
2-Methylnaphthalene
Concen: 7.31 ng/ml
RT: 8.90 min Scan# 596
Delta R.T. 0.00 min
Lab File: BF092877.D
Acq: 9 Feb 2017 2:14

Instrument :
BNA_F
ClientSampleId :
ROLL-OFF-R2-COMP

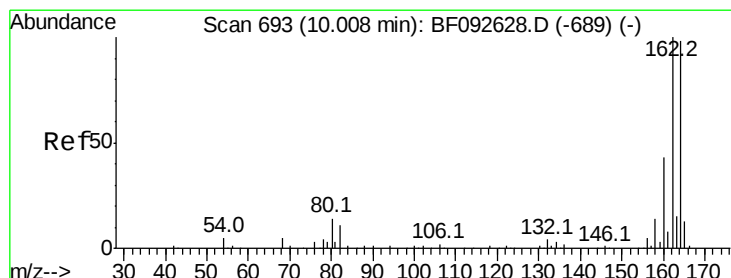
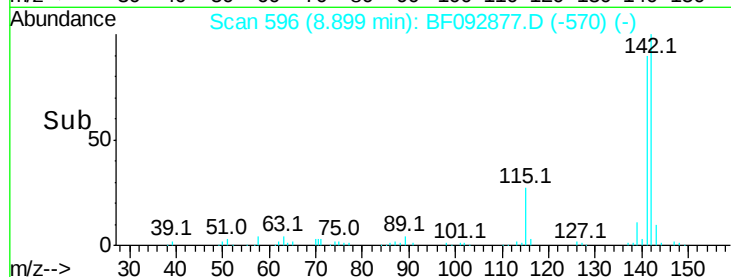
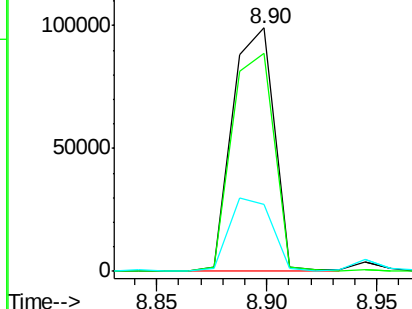
Tot Ion	Ratio	Lower	Upper
142	100		
141	89.6	71.0	106.6
115	27.5	28.3	42.5

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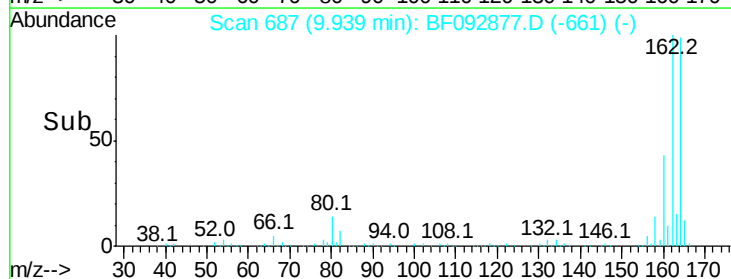
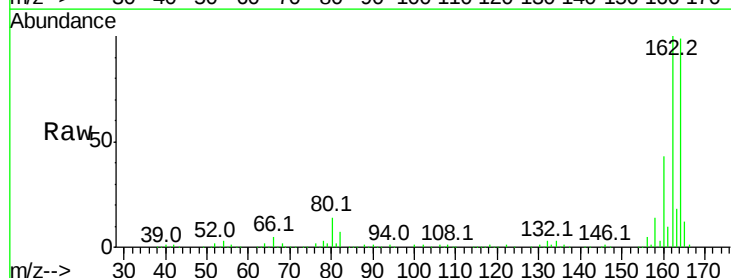
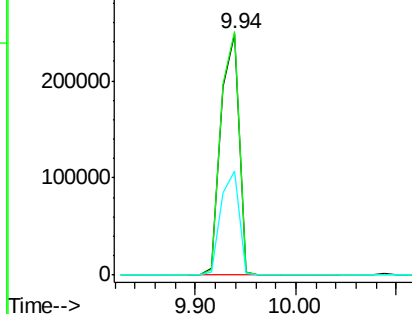
Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E

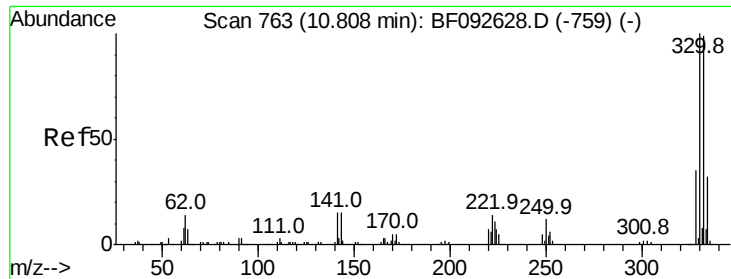


#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.94 min Scan# 687
Delta R.T. 0.00 min
Lab File: BF092877.D
Acq: 9 Feb 2017 2:14

Tgt Ion	Ratio	Lower	Upper
164	100		
162	101.0	80.2	120.2
160	43.0	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





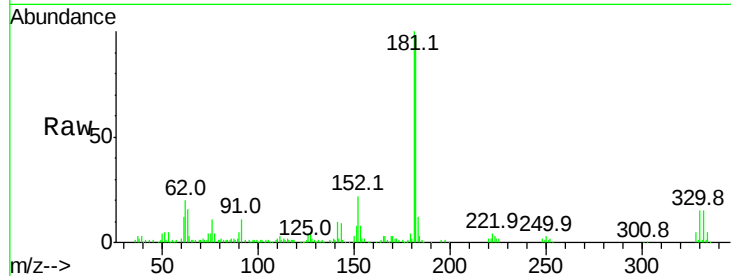
#41
 2,4,6-Tribromophenol
 Concen: 12.06 ng
 RT: 10.72 min Scan# 755
 Delta R.T. -0.01 min
 Lab File: BF092877.D
 Acq: 9 Feb 2017 2:14

Instrument :
 BNA_F
 ClientSampleId :
 ROLL-OFF-R2-COMP

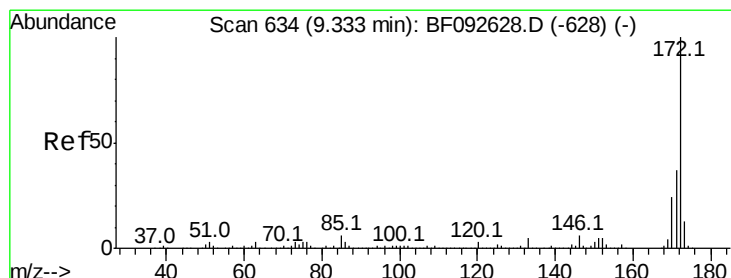
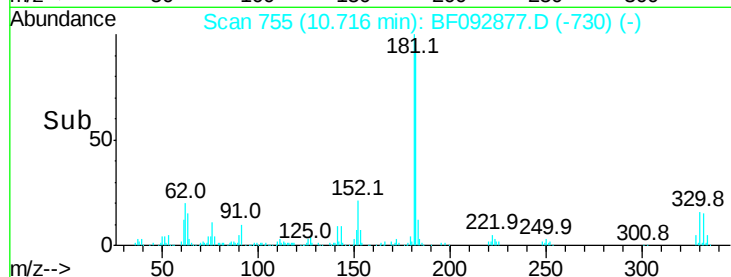
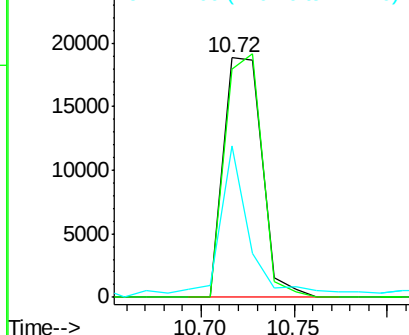
Tot Ion	Ratio	Lower	Upper
330	100		
332	97.8	77.4	116.2
141	53.3	34.1	51.1#

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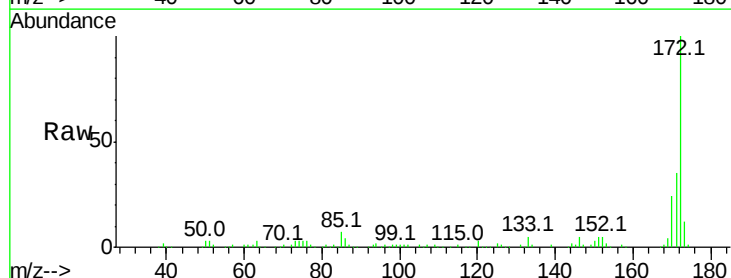


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

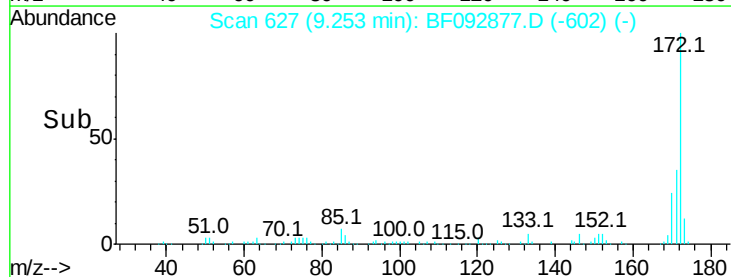
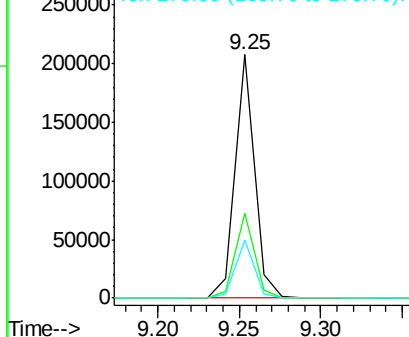


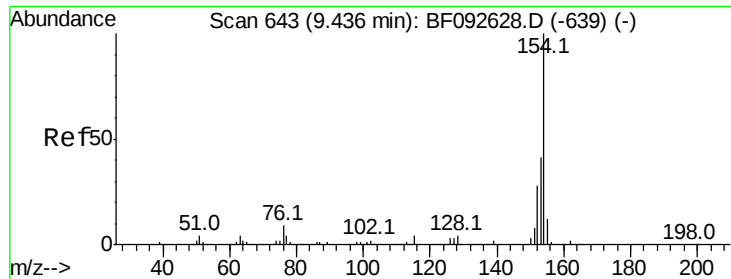
#44
 2-Fluorobiphenyl
 Concen: 9.79 ng
 RT: 9.25 min Scan# 627
 Delta R.T. -0.01 min
 Lab File: BF092877.D
 Acq: 9 Feb 2017 2:14

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.6	29.4	44.0
170	23.6	20.2	30.4



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





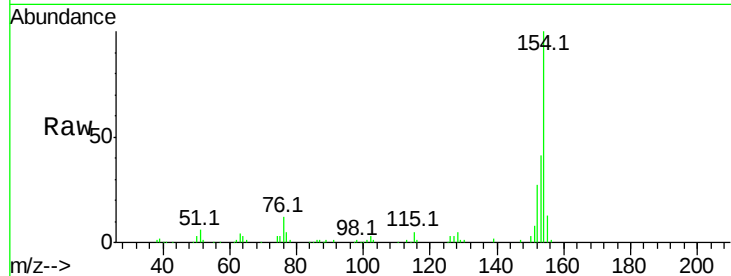
#45
1,1'-Biphenyl
Concen: 3.65 ng
RT: 9.36 min Scan# 636
Delta R.T. -0.01 min
Lab File: BF092877.D
Acq: 9 Feb 2017 2:14

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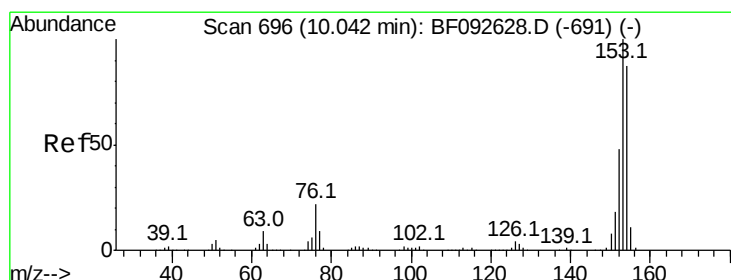
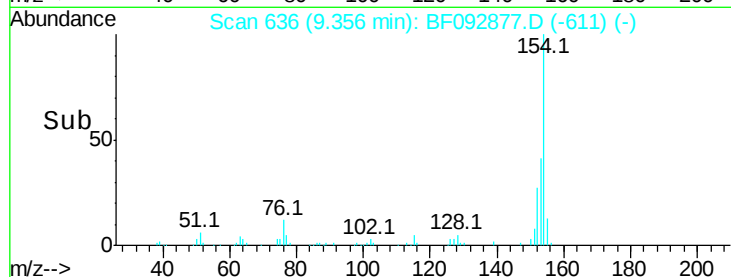
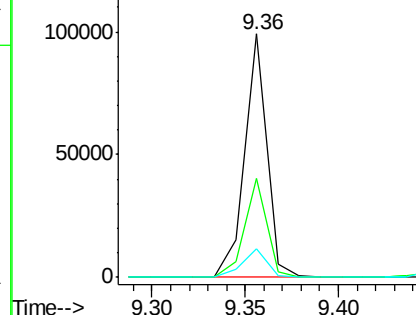
Tot Ion	Ratio	Resp	Lower	Upper
154	100			
153	40.7	20.9	60.9	
76	12.0	0.0	30.5	

Manual Integrations
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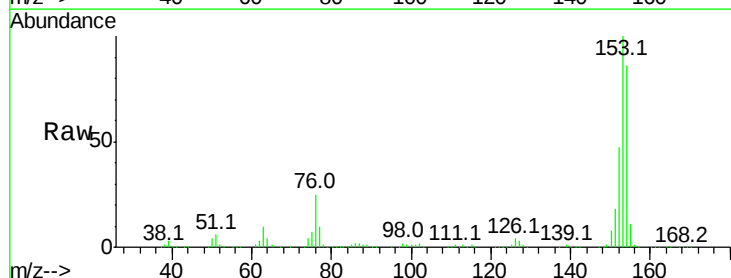


Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 76.00 (75.70 to 76.70): BF0

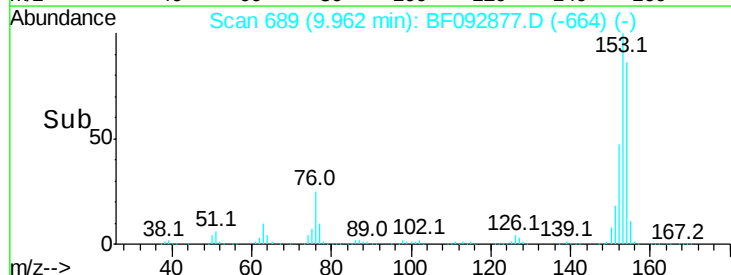
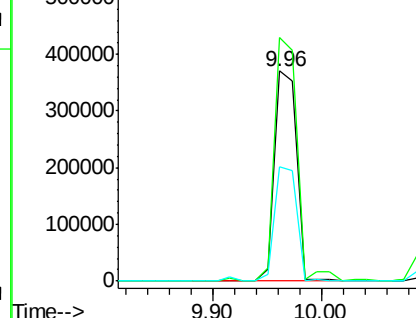


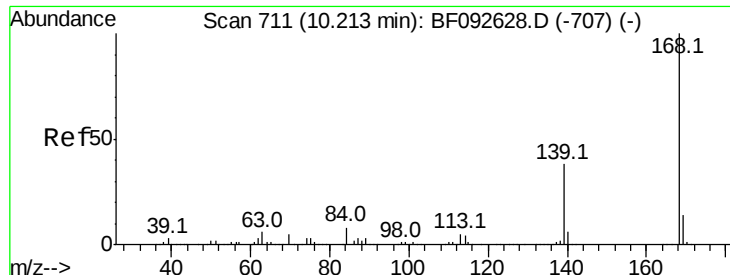
#51
Acenaphthene
Concen: 28.41 ng
RT: 9.96 min Scan# 689
Delta R.T. -0.01 min
Lab File: BF092877.D
Acq: 9 Feb 2017 2:14

Tgt Ion	Ratio	Resp	Lower	Upper
154	100			
153	115.9	88.6	133.0	
152	54.4	41.6	62.4	



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E





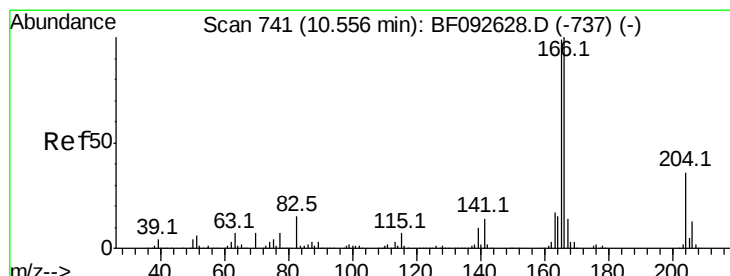
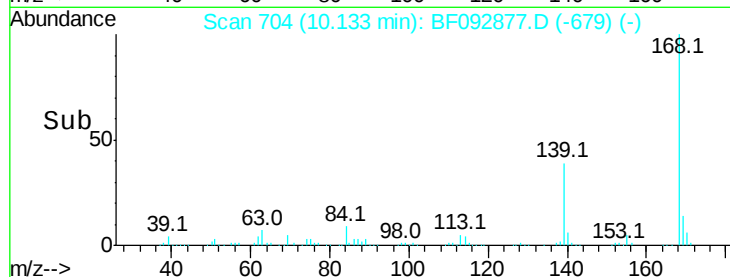
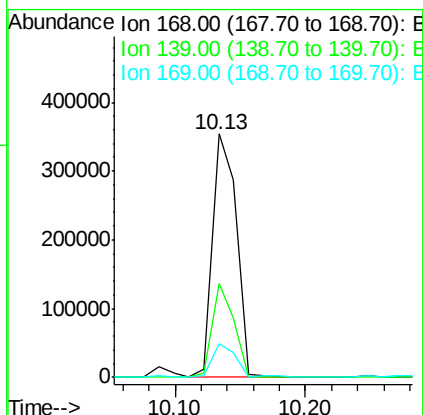
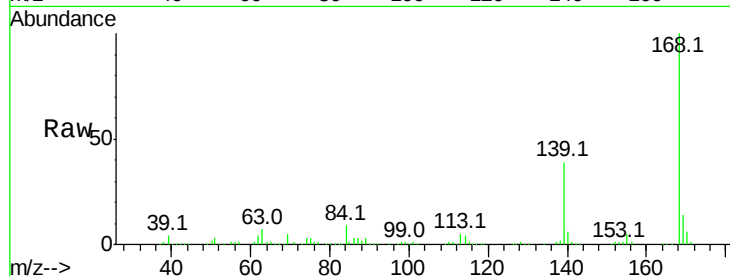
#54
Dibenzenofuran
Concen: 18.60 ng
RT: 10.13 min Scan# 704
Delta R.T. -0.01 min
Lab File: BF092877.D
Acq: 9 Feb 2017 2:14

Instrument :
BNA_F
ClientSampleId :
ROLL-OFF-R2-COMP

Tot Ion	Ratio	Resp	Lower	Upper
168	100	454317		
139	38.5		32.6	49.0
169	14.1		11.3	16.9

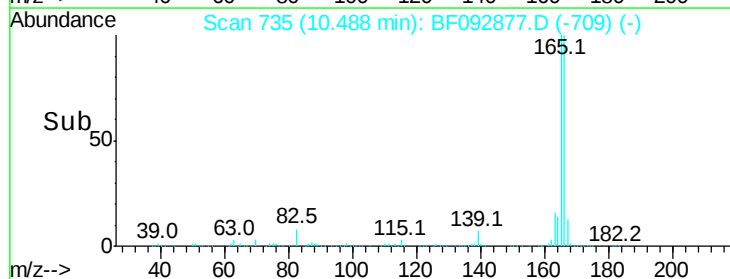
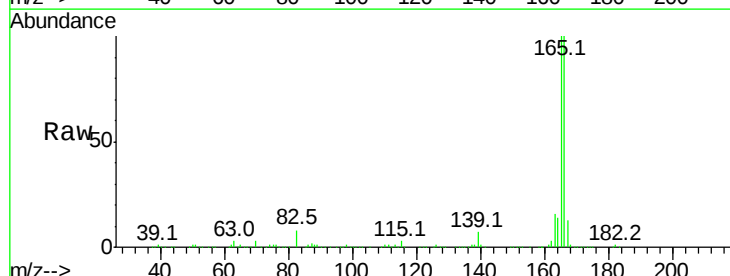
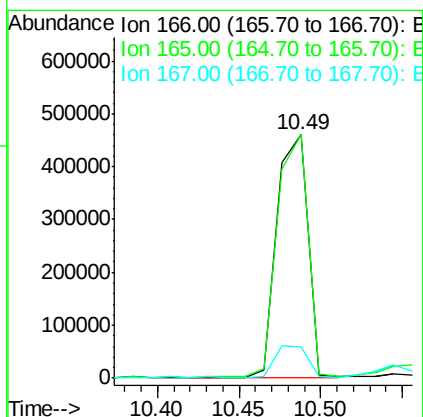
Manual Integrations
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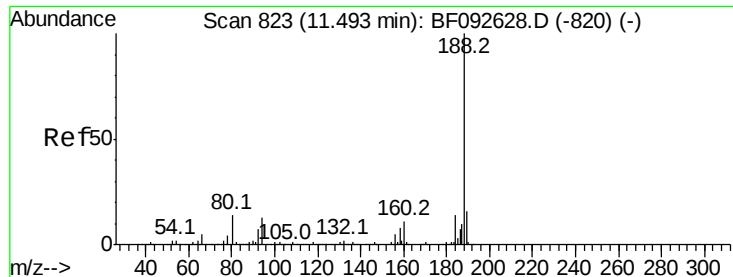
mohammad
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#57
Fluorene
Concen: 32.59 ng
RT: 10.49 min Scan# 735
Delta R.T. 0.00 min
Lab File: BF092877.D
Acq: 9 Feb 2017 2:14

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	612399		
165	99.9		77.8	116.8
167	13.0		10.8	16.2





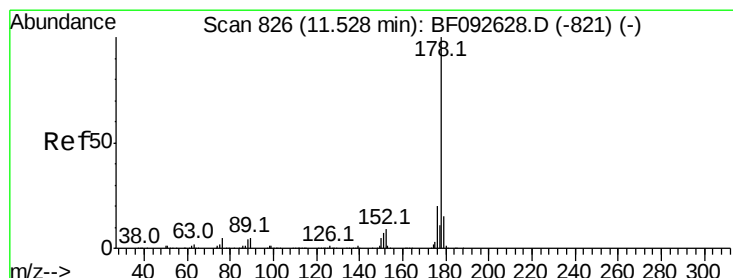
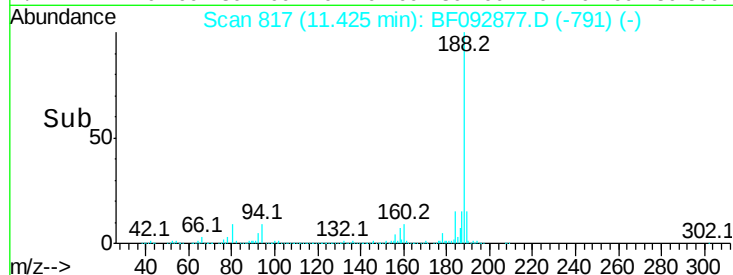
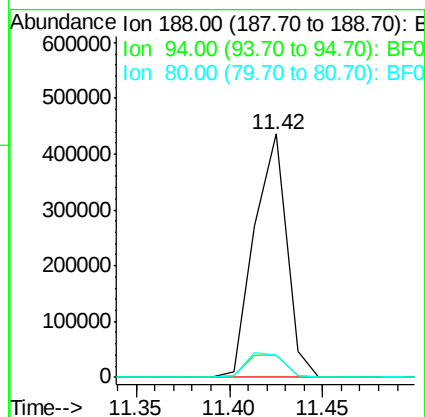
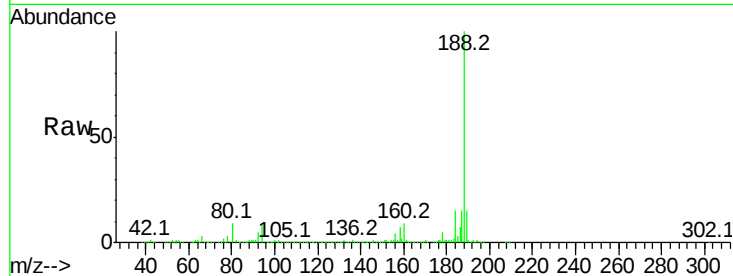
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.42 min Scan# 817
Delta R.T. 0.00 min
Lab File: BF092877.D
Acq: 9 Feb 2017 2:14

Instrument :
BNA_F
ClientSampleId :
ROLL-OFF-R2-COMP

Tot Ion	Ratio	Resp Lower	Upper
188	100		
94	8.9	10.0	15.0#
80	9.1	11.2	16.8#

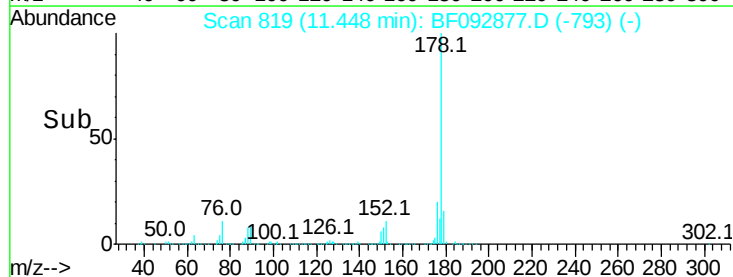
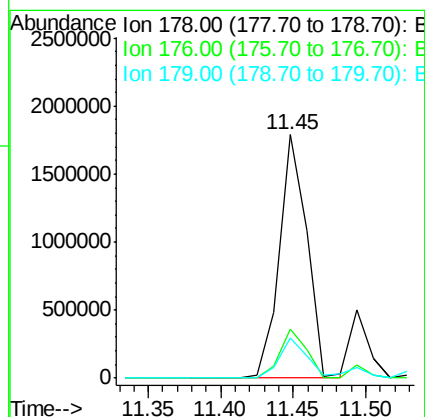
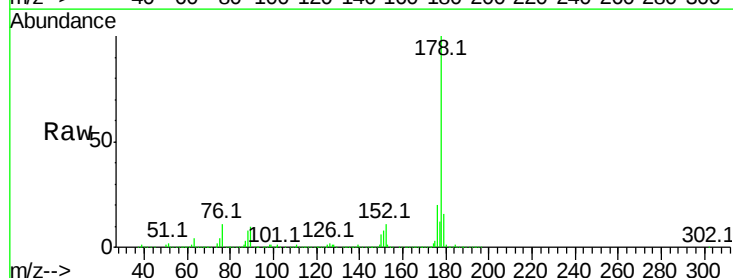
Manual Integrations
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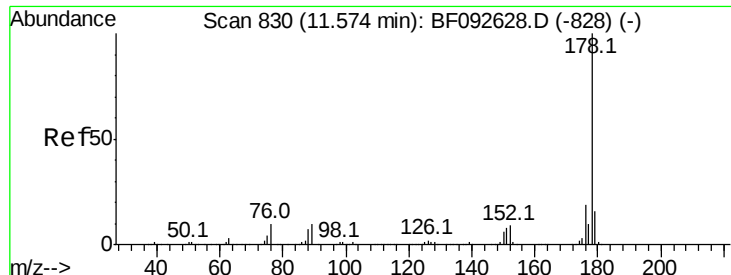
mohammad
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#70
Phenanthrene
Concen: 78.20 ng
RT: 11.45 min Scan# 819
Delta R.T. 0.00 min
Lab File: BF092877.D
Acq: 9 Feb 2017 2:14

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	20.0	16.6	25.0
179	16.4	12.8	19.2





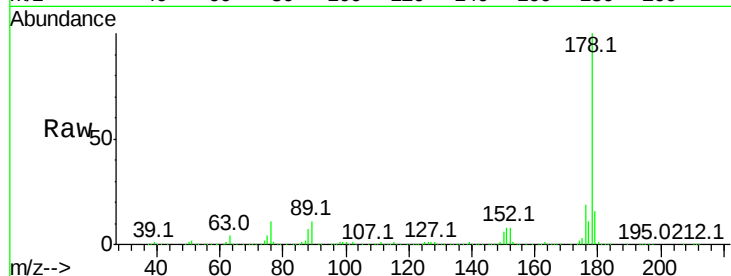
#71
 Anthracene
 Concen: 15.11 ng
 RT: 11.49 min Scan# 823
 Delta R.T. -0.01 min
 Lab File: BF092877.D
 Acq: 9 Feb 2017 2:14

Instrument :
 BNA_F
 ClientSampleId :
 ROLL-OFF-R2-COMP

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.9	23.9
179	15.8	13.2	19.8

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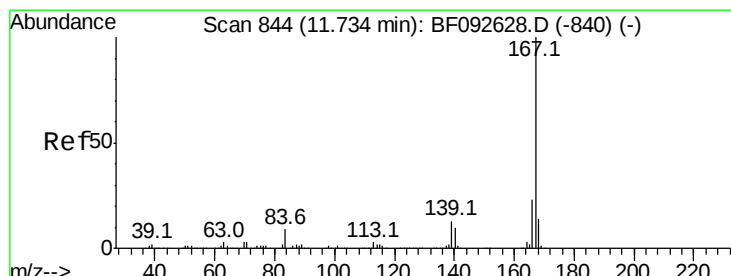
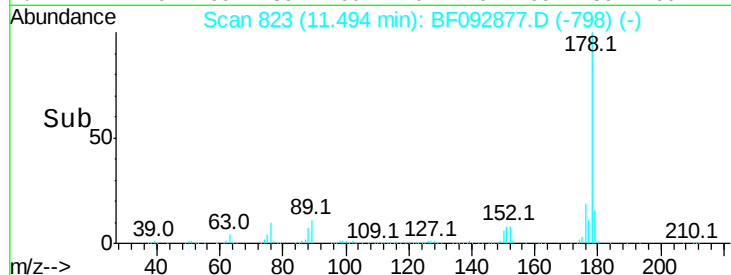
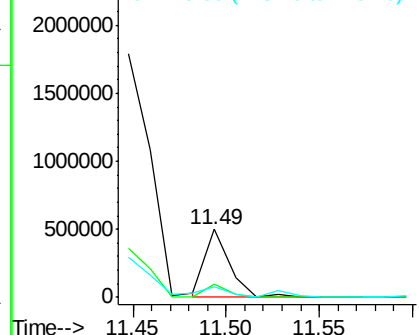


Abundance

Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#72
 Carbazole
 Concen: 3.70 ng
 RT: 11.65 min Scan# 837
 Delta R.T. 0.00 min
 Lab File: BF092877.D
 Acq: 9 Feb 2017 2:14

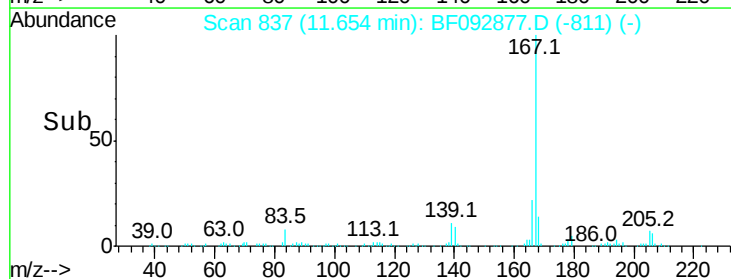
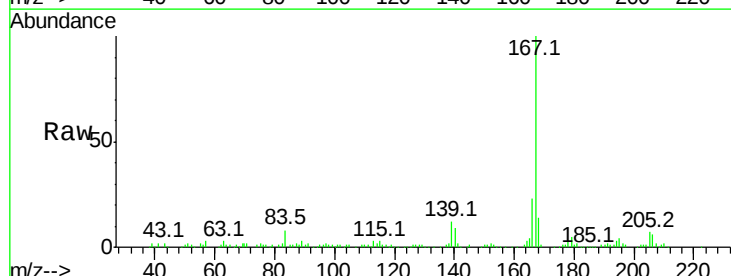
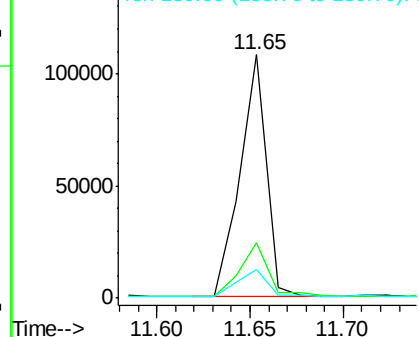
Tgt Ion	Ratio	Lower	Upper
167	100		
166	22.9	18.2	27.2
139	11.6	11.4	17.2

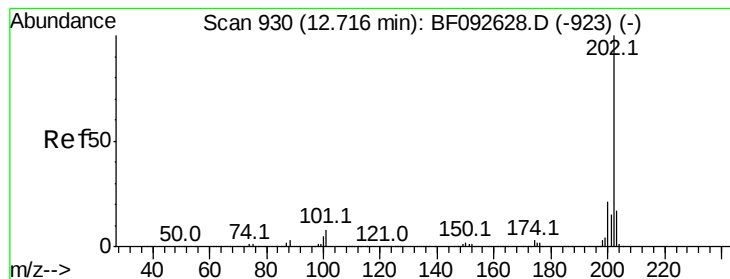
Abundance

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: 98.71 ng

RT: 12.65 min Scan# 924

Delta R.T. 0.01 min

Lab File: BF092877.D

Acq: 9 Feb 2017 2:14

Instrument :

BNA_F

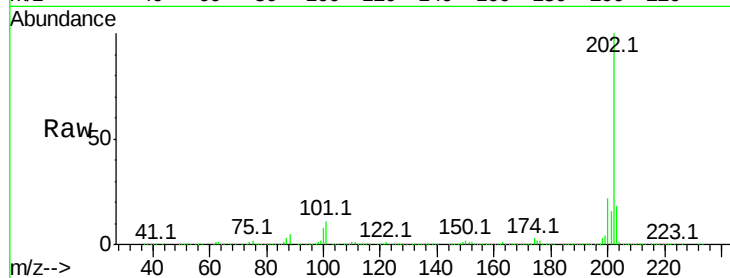
ClientSampleId :

ROLL-OFF-R2-COMP

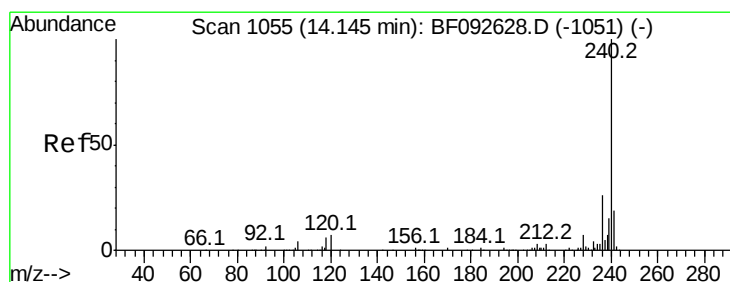
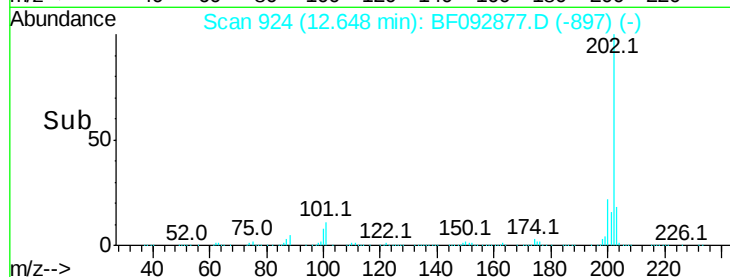
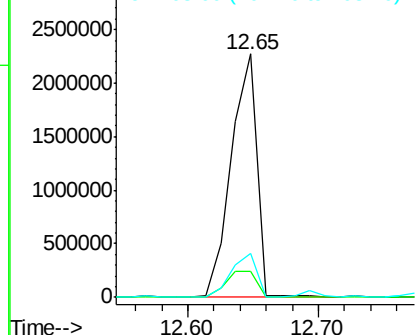
Tot Ion:	202	Resp:	3063111
Ion	Ratio	Lower	Upper
202	100		
101	10.6	0.0	34.6
203	18.3	0.0	38.7

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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

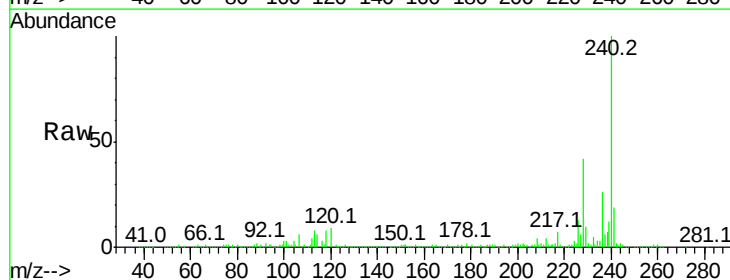
RT: 14.07 min Scan# 1048

Delta R.T. 0.00 min

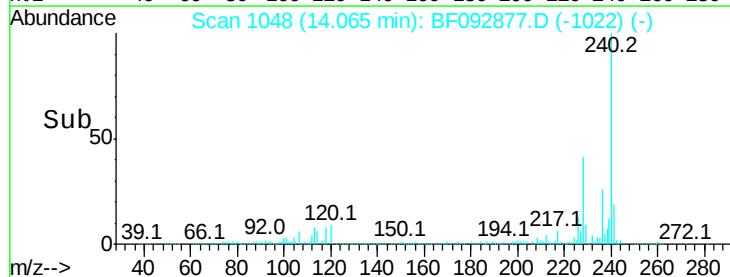
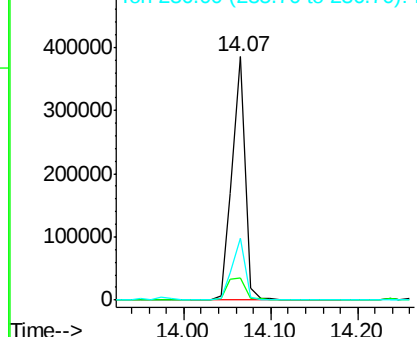
Lab File: BF092877.D

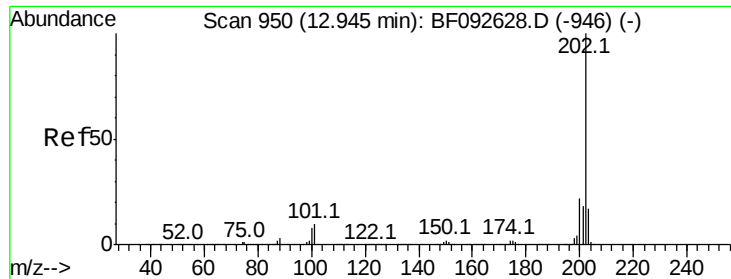
Acq: 9 Feb 2017 2:14

Tgt Ion:	240	Resp:	406828
Ion	Ratio	Lower	Upper
240	100		
120	9.2	12.9	19.3#
236	25.6	20.9	31.3



Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 88.99 ng

RT: 12.88 min Scan# 944

Delta R.T. 0.01 min

Lab File: BF092877.D

Acq: 9 Feb 2017 2:14

Instrument :

BNA_F

ClientSampleId :

ROLL-OFF-R2-COMP

Tot Ion:202 Resp: 2709502

Ion Ratio Lower Upper

202 100

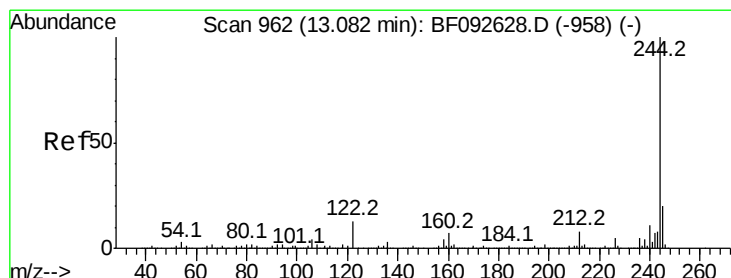
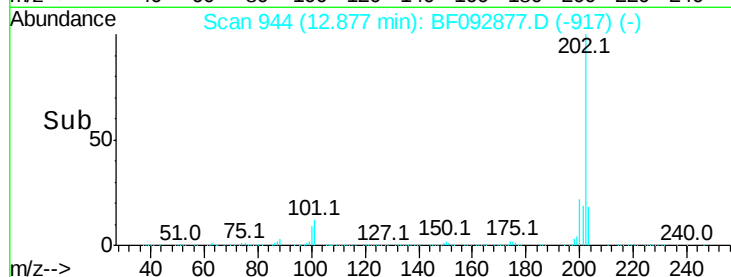
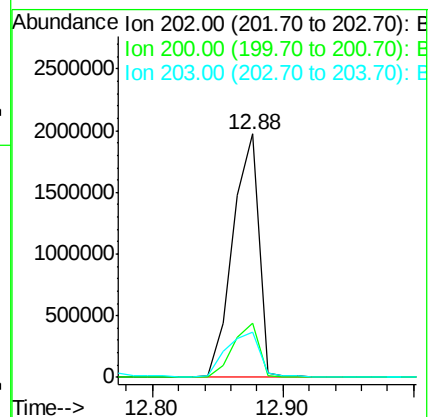
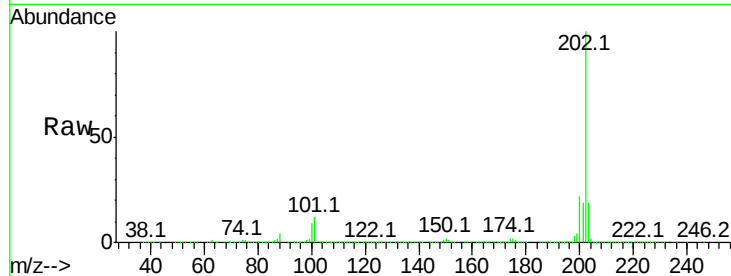
200 22.2 17.7 26.5

203 18.6 14.7 22.1

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#78

Terphenyl-d14

Concen: 8.97 ng

RT: 13.00 min Scan# 955

Delta R.T. -0.01 min

Lab File: BF092877.D

Acq: 9 Feb 2017 2:14

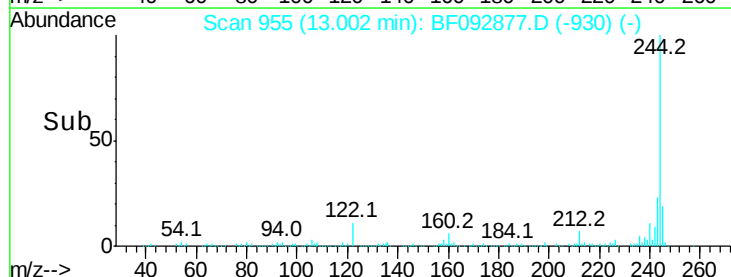
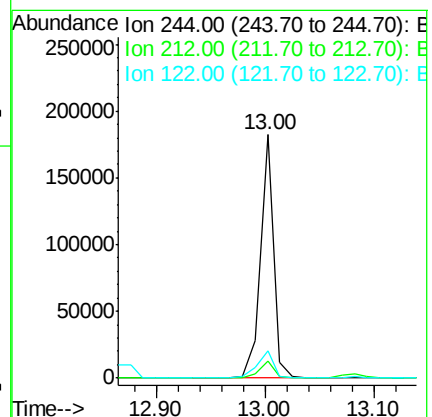
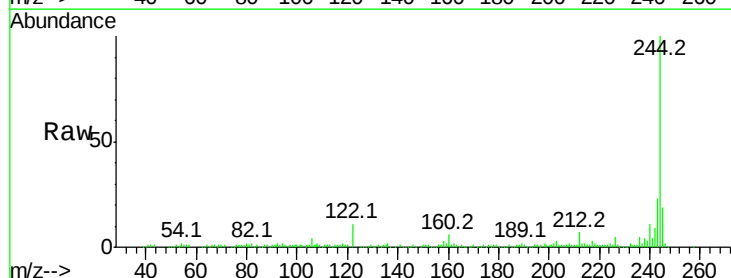
Tgt Ion:244 Resp: 155268

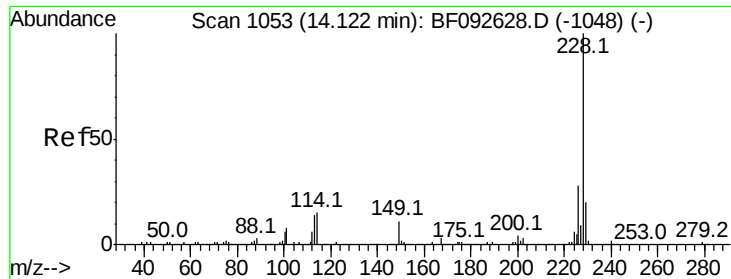
Ion Ratio Lower Upper

244 100

212 7.0 6.2 9.2

122 11.0 11.4 17.2#





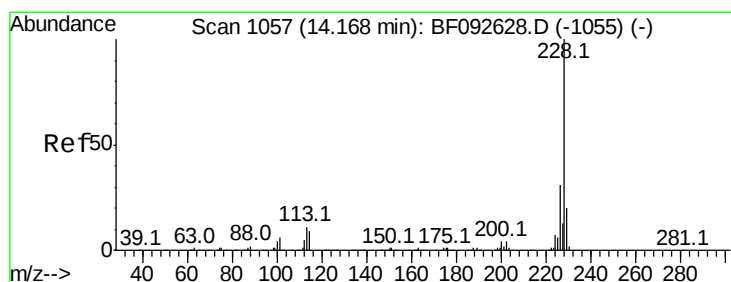
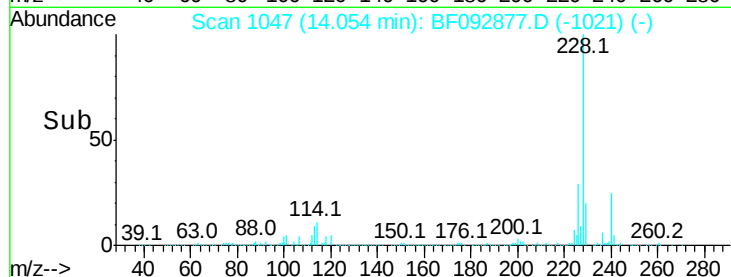
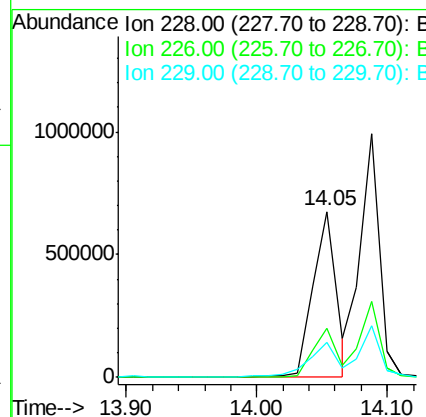
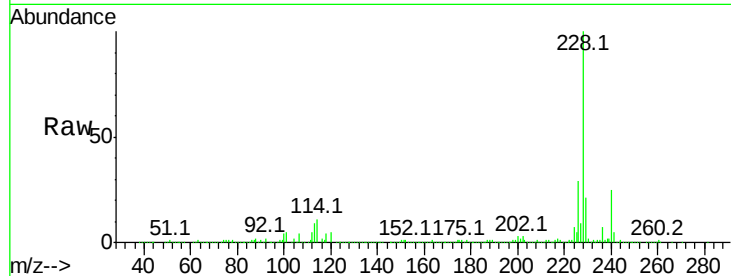
#80
Benzo(a)anthracene
Concen: 34.00 ng
RT: 14.05 min Scan# 1047
Delta R.T. 0.00 min
Lab File: BF092877.D
Acq: 9 Feb 2017 2:14

Instrument :
BNA_F
ClientSampleId :
ROLL-OFF-R2-COMP

Tot Ion	Ratio	Lower	Upper
228	100		
226	29.3	22.4	33.6
229	20.8	16.2	24.4

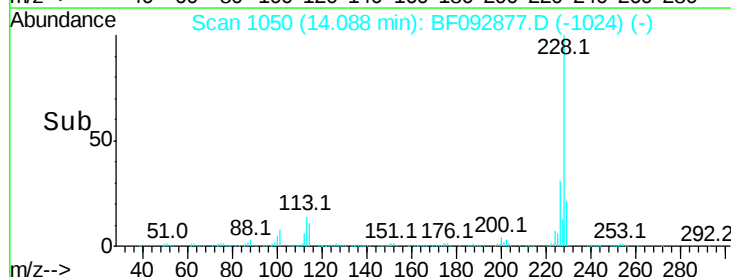
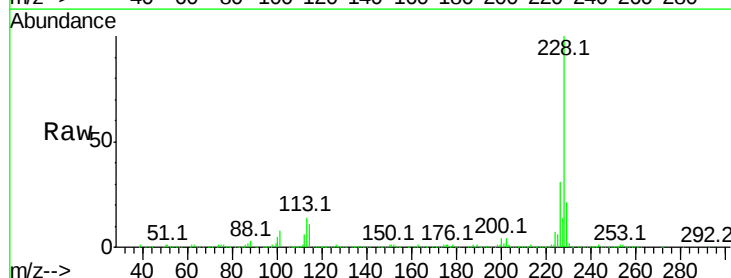
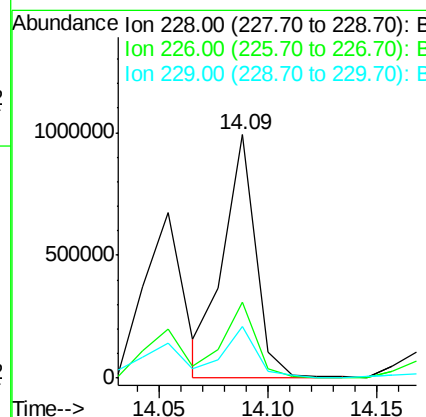
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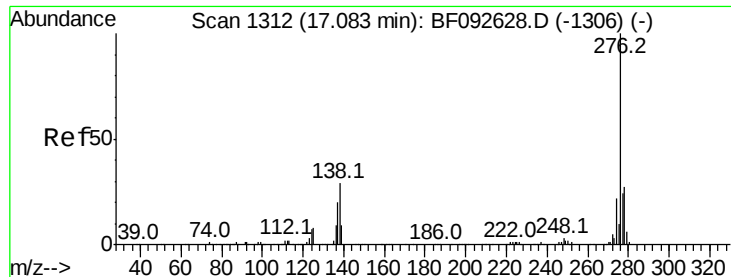
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#82
Chrysene
Concen: 43.53 ng
RT: 14.09 min Scan# 1050
Delta R.T. 0.00 min
Lab File: BF092877.D
Acq: 9 Feb 2017 2:14

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.1	25.4	38.0
229	21.3	16.2	24.2





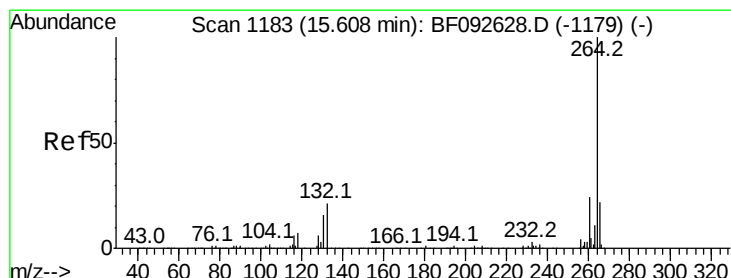
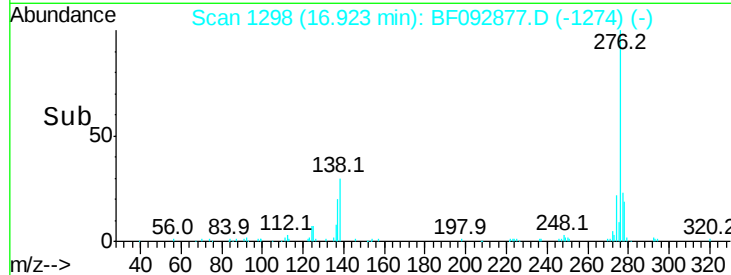
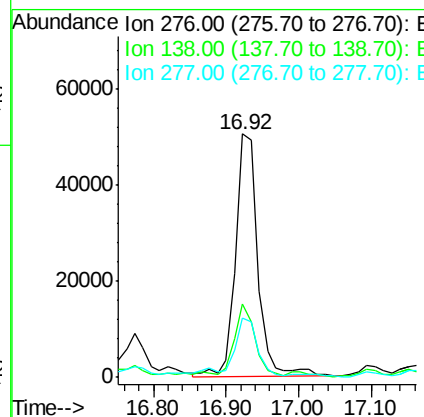
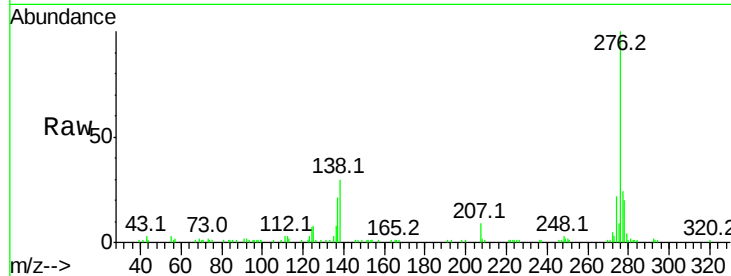
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 5.99 ng
 RT: 16.92 min Scan# 1298
 Delta R.T. -0.02 min
 Lab File: BF092877.D
 Acq: 9 Feb 2017 2:14

Instrument :
 BNA_F
 ClientSampleId :
 ROLL-OFF-R2-COMP

Tot Ion	Ratio	Lower	Upper
276	100		
138	28.7	21.8	32.6
277	26.6	20.2	30.4

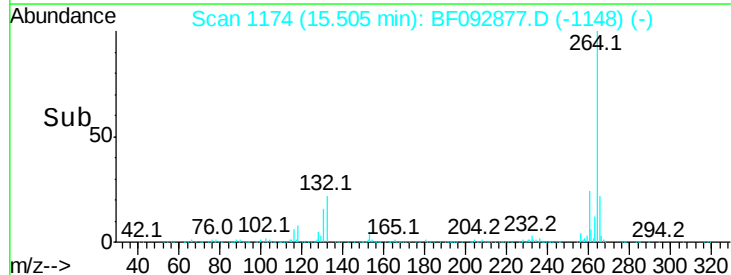
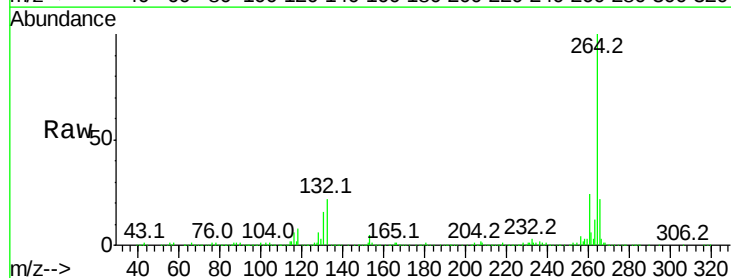
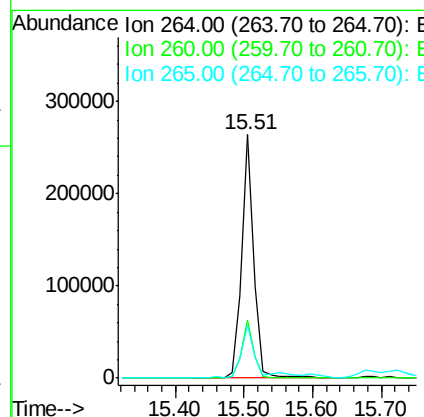
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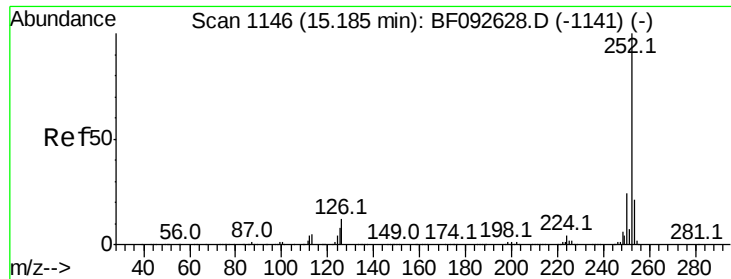
mohammad
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#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.51 min Scan# 1174
 Delta R.T. 0.00 min
 Lab File: BF092877.D
 Acq: 9 Feb 2017 2:14

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.1	19.2	28.8
265	21.8	17.4	26.0





#87

Benzo(b)fluoranthene

Concen: 31.16 ng m

RT: 15.09 min Scan# 1138

Delta R.T. 0.00 min

Lab File: BF092877.D

Acq: 9 Feb 2017 2:14

Instrument :

BNA_F

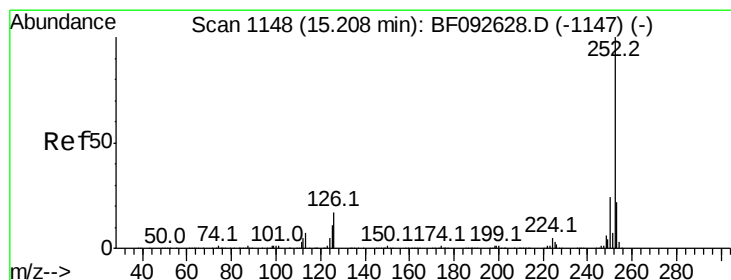
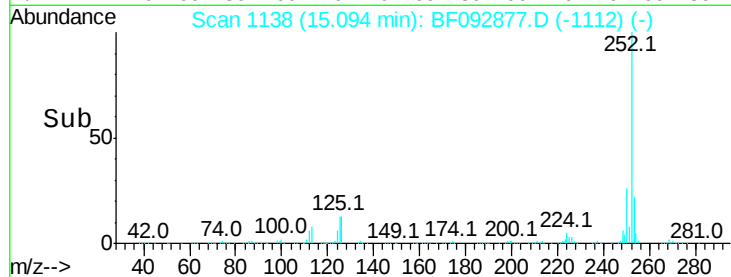
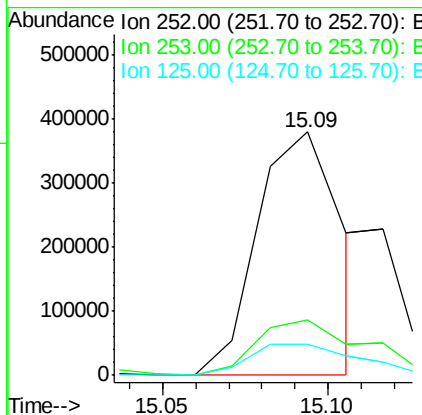
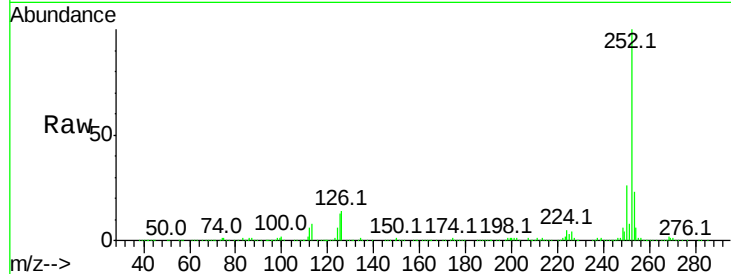
ClientSampleId :

ROLL-OFF-R2-COMP

Tot Ion:	252	Resp:	674147
Ion Ratio	Lower	Upper	
252	100		
253	22.7	18.2	27.4
125	12.8	9.8	14.6

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#88

Benzo(k)fluoranthene

Concen: 9.65 ng m

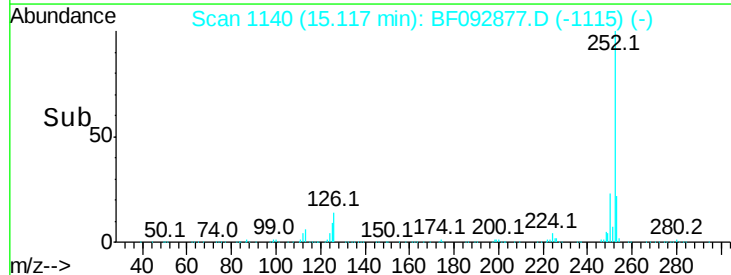
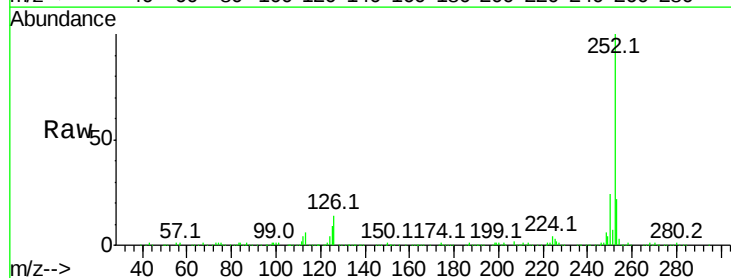
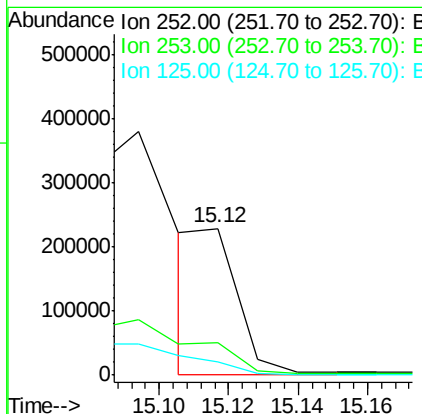
RT: 15.12 min Scan# 1140

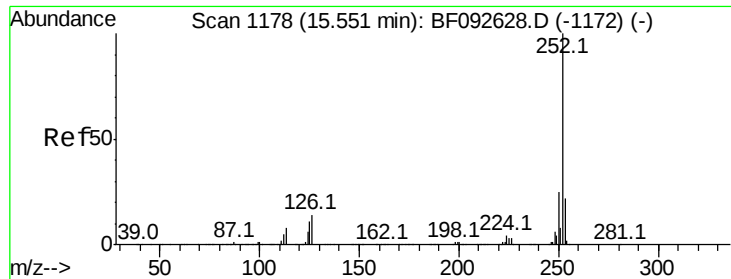
Delta R.T. -0.01 min

Lab File: BF092877.D

Acq: 9 Feb 2017 2:14

Tgt Ion:	252	Resp:	180337
Ion Ratio	Lower	Upper	
252	100		
253	22.4	18.5	27.7
125	9.4	8.9	13.3





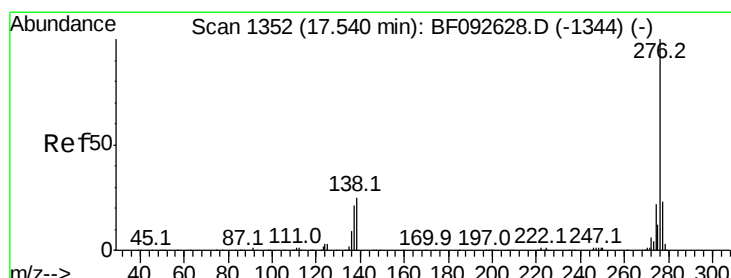
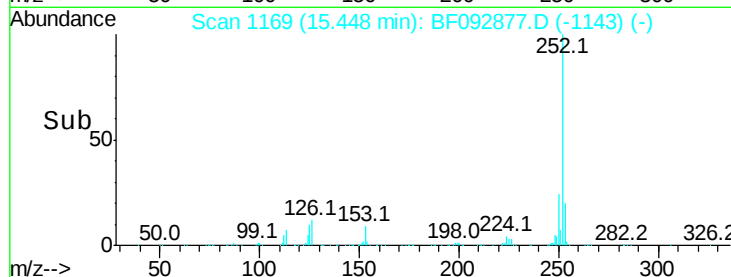
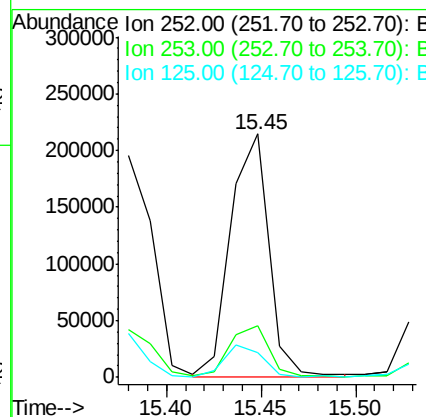
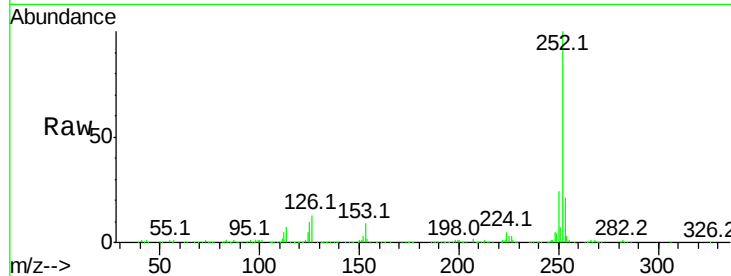
#89
Benzo(a)pyrene
Concen: 16.05 ng/ml
RT: 15.45 min Scan# 1169
Delta R.T. 0.00 min
Lab File: BF092877.D
Acq: 9 Feb 2017 2:14

Instrument :
BNA_F
ClientSampleId :
ROLL-OFF-R2-COMP

Tot Ion	Ratio	Resp Lower	Upper
252	100		
253	21.3	18.2	27.2
125	10.0	10.0	15.0

Manual Integrations
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#91
Benzo(g,h,i)perylene
Concen: 5.14 ng/ml
RT: 17.36 min Scan# 1336
Delta R.T. -0.02 min
Lab File: BF092877.D
Acq: 9 Feb 2017 2:14

Tgt Ion	Ratio	Resp Lower	Upper
276	100		
277	23.4	19.2	28.8
138	29.3	16.0	24.0

