

Data Path : Z:\HPCHEM1\BNA F\DATA\BF012017\
 Data File : BF092386.D
 Acq On : 20 Jan 2017 21:36
 Operator : UM/SJ
 Sample : I1329-01
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 BLACK-FILL1-0-5FT-COMP

Manual Integrations
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Quant Time: Jan 21 00:03:39 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF122116.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jan 20 22:22:14 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.52	152	141787	20.00	ng	0.00
21) Naphthalene-d8	7.81	136	699767	20.00	ng	0.00
38) Acenaphthene-d10	9.56	164	320700	20.00	ng	0.00
63) Phenanthrene-d10	11.03	188	444075	20.00	ng	0.00
75) Chrysene-d12	13.66	240	338191	20.00	ng	0.00
86) Perylene-d12	15.02	264	245909	20.00	ng	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.11	112	1206942	142.13	ng	0.02
7) Phenol-d6	6.20	99	1670852	161.16	ng	0.01
23) Nitrobenzene-d5	7.10	82	1265525	100.56	ng	0.00
41) 2,4,6-Tribromophenol	10.35	330	304911	114.89	ng	0.00
44) 2-Fluorobiphenyl	8.90	172	1610234	106.08	ng	0.00
78) Terphenyl-d14	12.62	244	991974	71.14	ng	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Phenol	6.21	94	86579	7.33	ng	# 70
31) Naphthalene	7.83	128	829252	25.89	ng	99
37) 2-Methylnaphthalene	8.53	142	181548m	6.89	ng	
45) 1,1'-Biphenyl	8.99	154	66466	3.03	ng	95
49) Dimethylphthalate	9.30	163	268926	13.11	ng	99
51) Acenaphthene	9.59	154	243773	13.44	ng	99
54) Dibenzofuran	9.76	168	278405	11.37	ng	92
57) Fluorene	10.11	166	288423	16.19	ng	100
70) Phenanthrene	11.06	178	984247	40.87	ng	98
71) Anthracene	11.11	178	163692	5.46	ng	96
72) Carbazole	11.27	167	68027	2.51	ng	98
74) Fluoranthene	12.24	202	721360	33.14	ng	94
77) Pvrene	12.47	202	596249	24.03	ng	97
80) Benzo(a)anthracene	13.65	228	223340	11.70	ng	95
82) Chrysene	13.70	228	185015	9.66	ng	96
85) Indeno(1,2,3-cd)pyrene	16.23	276	72218	4.35	ng	94
87) Benzo(b)fluoranthene	14.67	252	188217m	12.29	ng	
88) Benzo(k)fluoranthene	14.68	252	30600m	2.34	ng	
89) Benzo(a)pvrene	14.97	252	122551	9.02	ng	97
91) Benzo(a,h,i)perylene	16.60	276	71598	6.16	ng	# 95

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

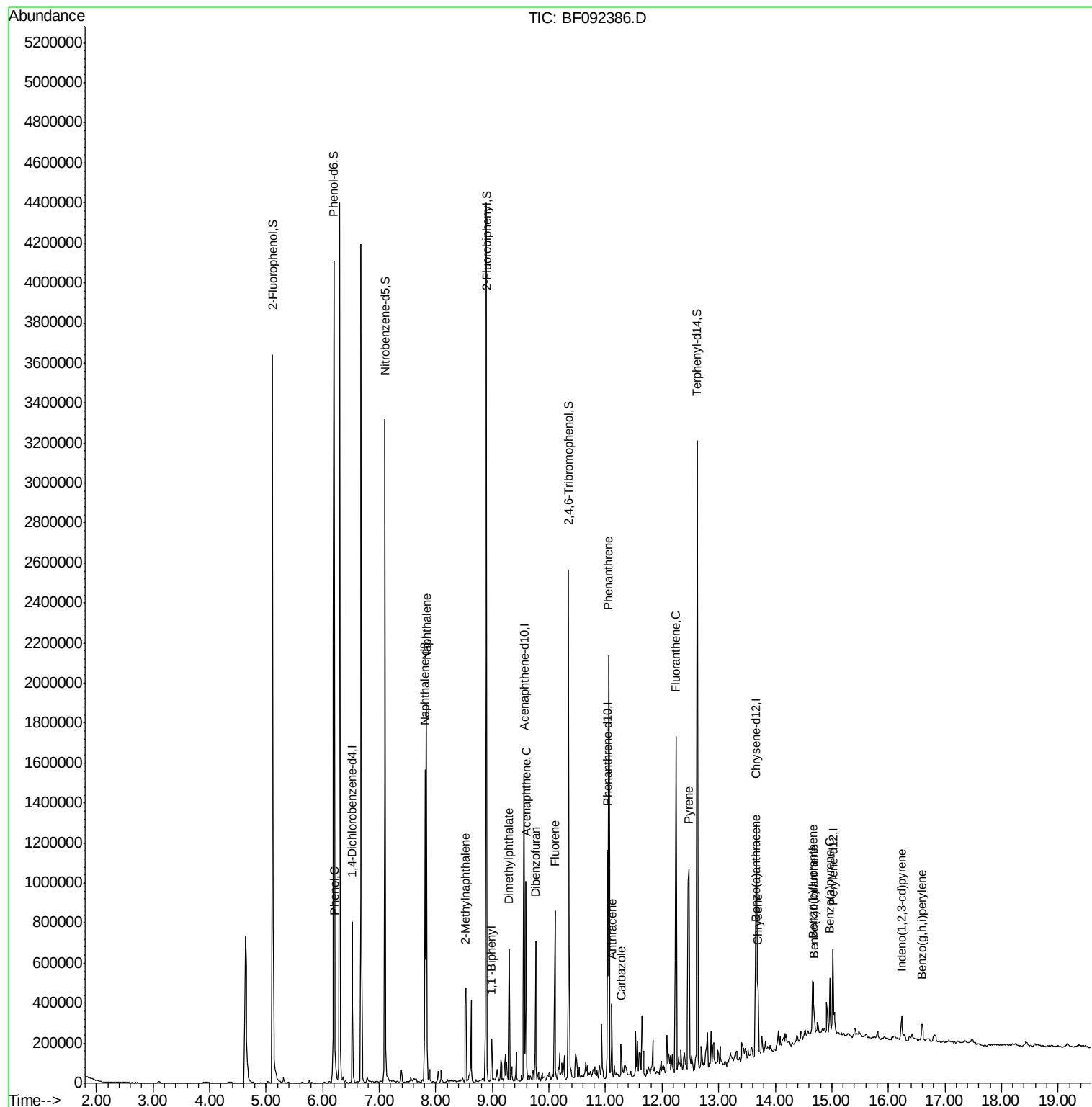
Data Path : Z:\HPCHEM1\BNA F\DATA\BF012017\
Data File : BF092386.D
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ALS Vial : 22 Sample Multiplier: 1

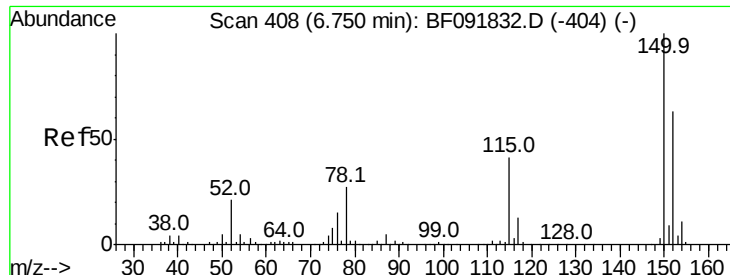
Instrument :
BNA_F
ClientSampleId :
BLACK-FILL1-0-5FT-COMP

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Quant Time: Jan 21 00:03:39 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF122116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

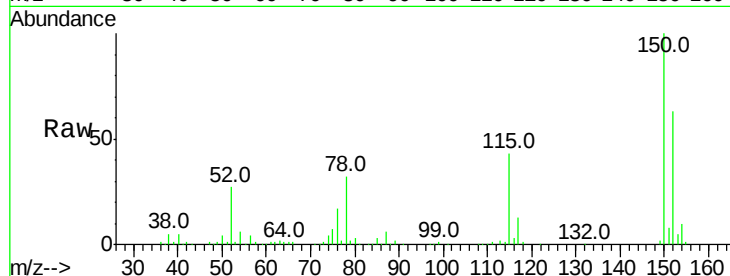
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.52 min Scan# 414
Delta R.T. -0.00 min
Lab File: BF092386.D
Acq: 20 Jan 2017 21:36

Instrument :
BNA_F
ClientSampleId :
BLACK-FILL1-0-5FT-COMP

Tot Ion	Ratio	Lower	Upper
152	100		
150	158.4	124.9	187.3
115	68.8	46.0	69.0

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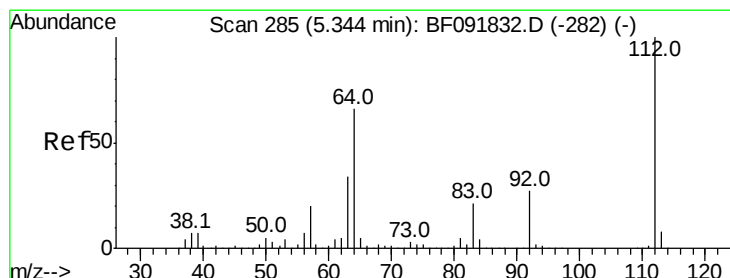
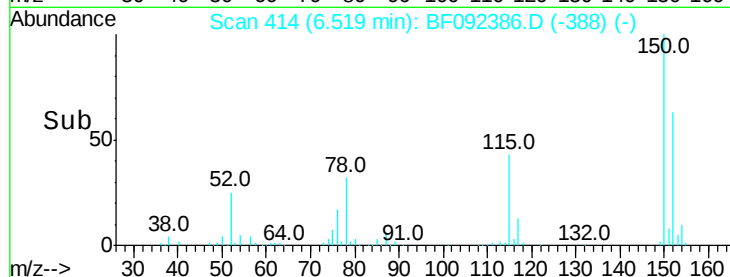
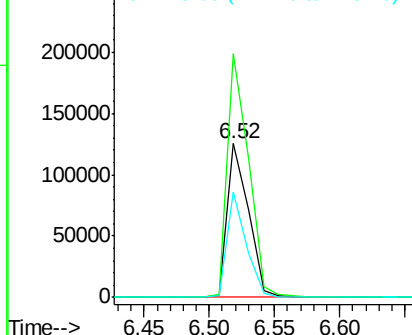


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

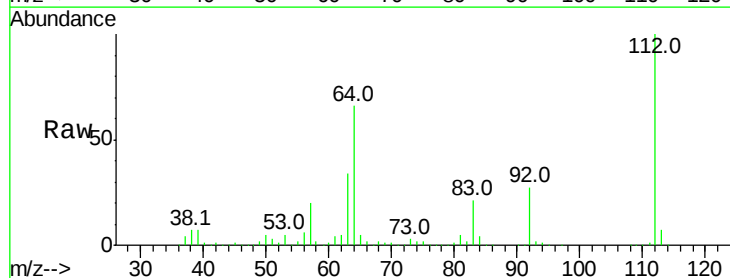
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 142.13 ng
RT: 5.11 min Scan# 291
Delta R.T. 0.02 min
Lab File: BF092386.D
Acq: 20 Jan 2017 21:36

Tgt Ion	Ratio	Lower	Upper
112	100		
64	65.5	46.1	69.1
63	34.1	23.8	35.6

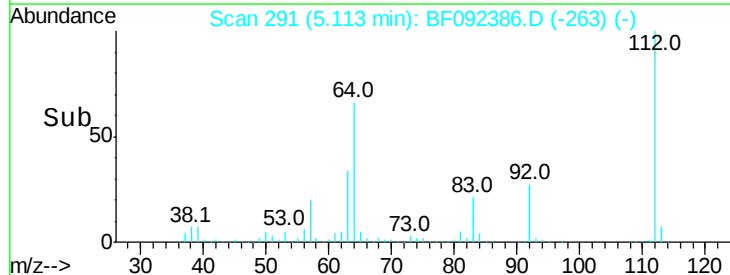
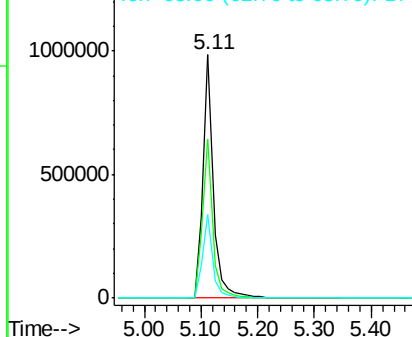


Abundance

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: 161.16 ng

RT: 6.20 min Scan# 386

Delta R.T. 0.01 min

Lab File: BF092386.D

Acq: 20 Jan 2017 21:36

Instrument :

BNA_F

ClientSampleId :

BLACK-FILL1-0-5FT-COMP

Tot Ion: 99 Resp: 1670852

Ion Ratio Lower Upper

99 100

42 19.8 15.6 23.4

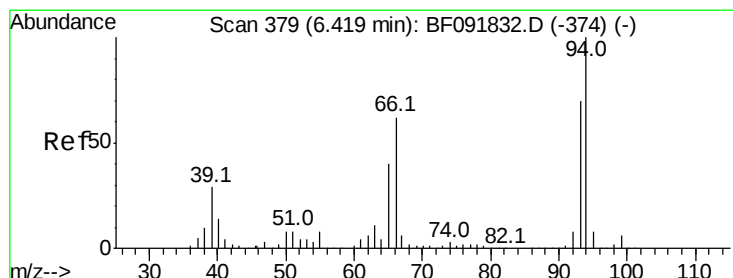
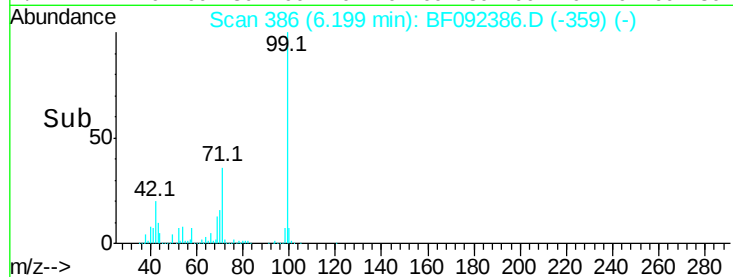
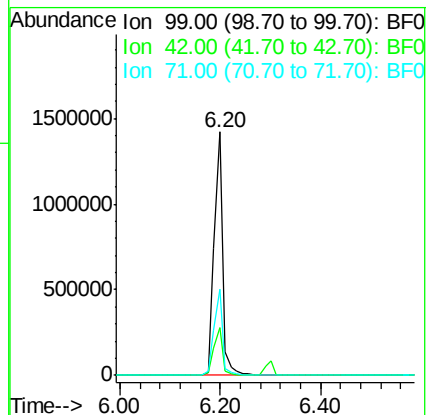
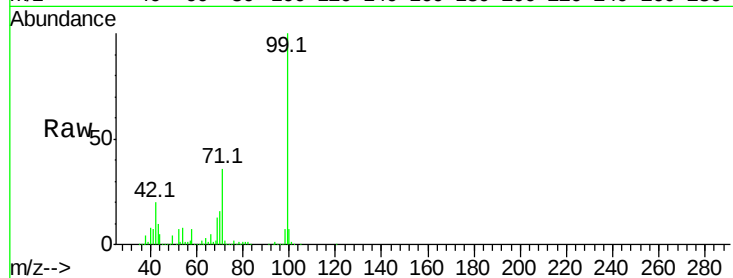
71 35.6 27.5 41.3

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#10

Phenol

Concen: 7.33 ng

RT: 6.21 min Scan# 387

Delta R.T. 0.01 min

Lab File: BF092386.D

Acq: 20 Jan 2017 21:36

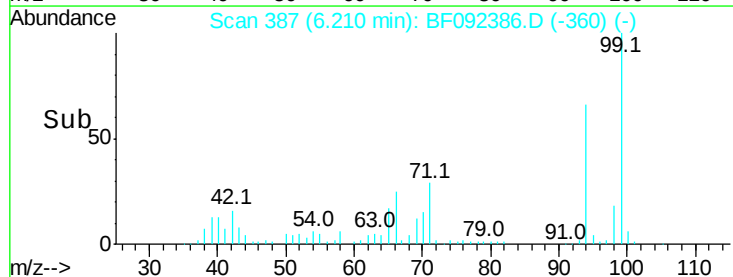
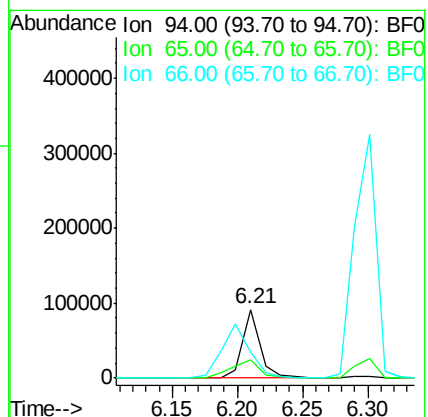
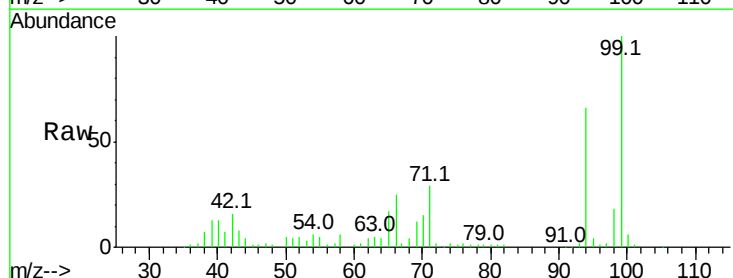
Tgt Ion: 94 Resp: 86579

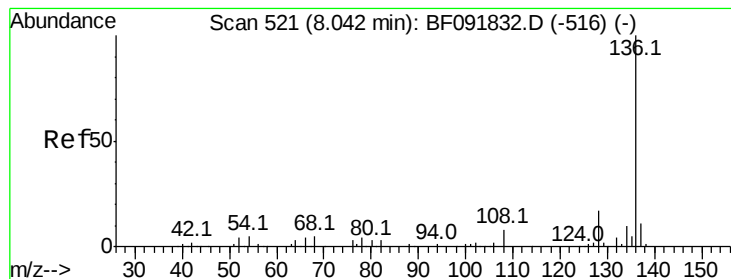
Ion Ratio Lower Upper

94 100

65 25.9 21.4 61.4

66 38.4 44.0 84.0#





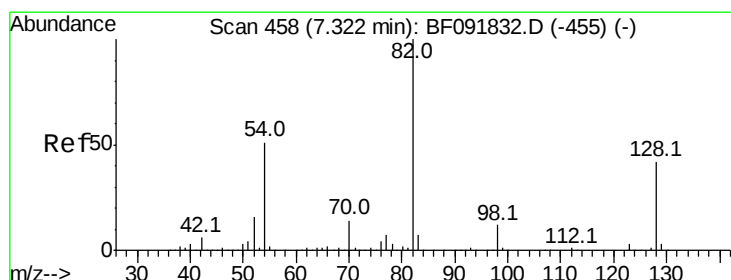
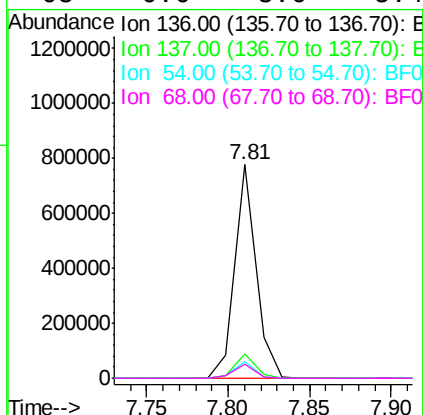
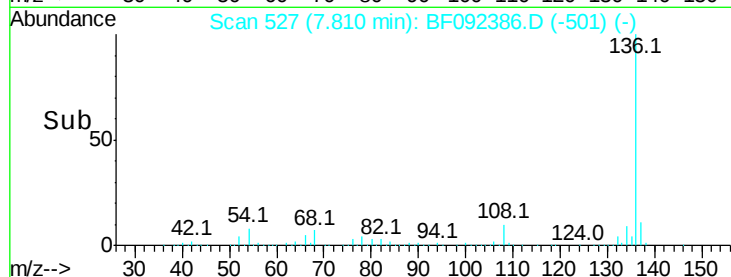
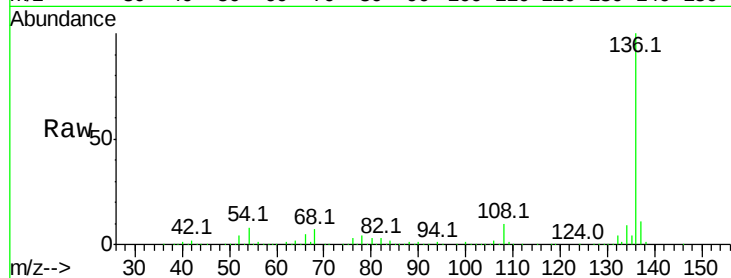
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 7.81 min Scan# 527
Delta R.T. -0.00 min
Lab File: BF092386.D
Acq: 20 Jan 2017 21:36

Instrument :
BNA_F
ClientSampleId :
BLACK-FILL1-0-5FT-COMP

Tot Ion	Ratio	Resp	Lower	Upper
136	100	699767		
137	11.3	8.4	12.6	
54	7.9	4.5	6.7#	
68	6.6	3.6	5.4#	

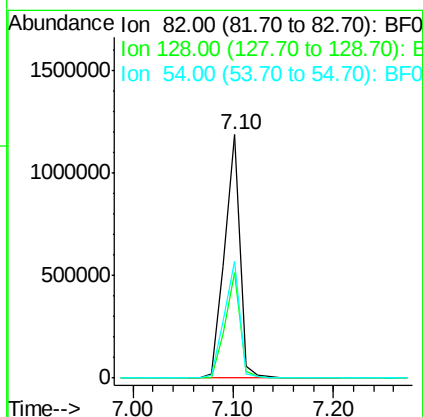
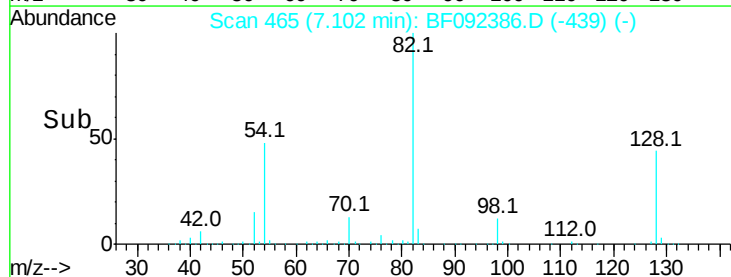
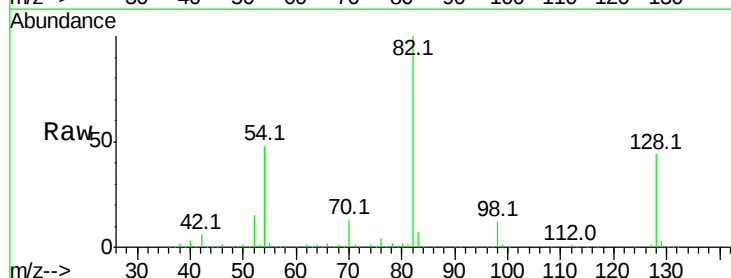
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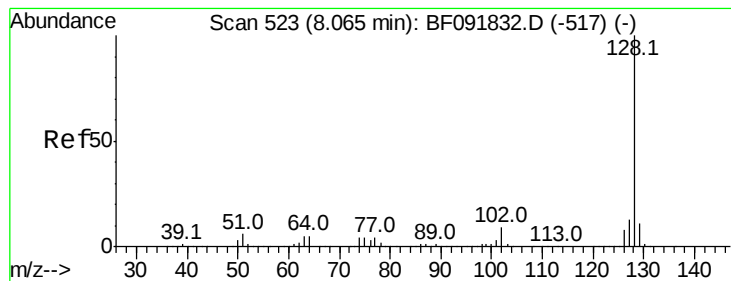
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#23
Nitrobenzene-d5
Concen: 100.56 ng
RT: 7.10 min Scan# 465
Delta R.T. -0.00 min
Lab File: BF092386.D
Acq: 20 Jan 2017 21:36

Tgt Ion	Ratio	Resp	Lower	Upper
82	100	1265525		
128	43.5	34.6	52.0	
54	47.9	39.5	59.3	





#31

Naphthalene

Concen: 25.89 ng

RT: 7.83 min Scan# 529

Delta R.T. -0.00 min

Lab File: BF092386.D

Acq: 20 Jan 2017 21:36

Instrument :

BNA_F

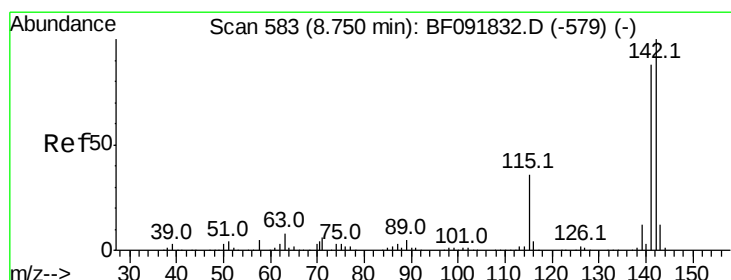
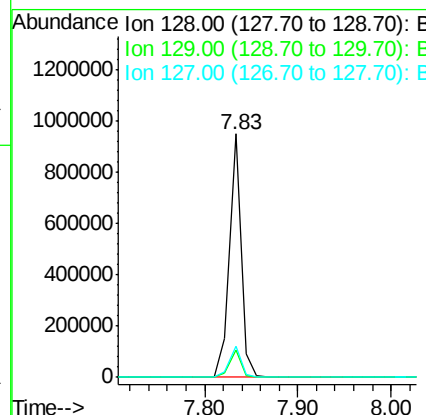
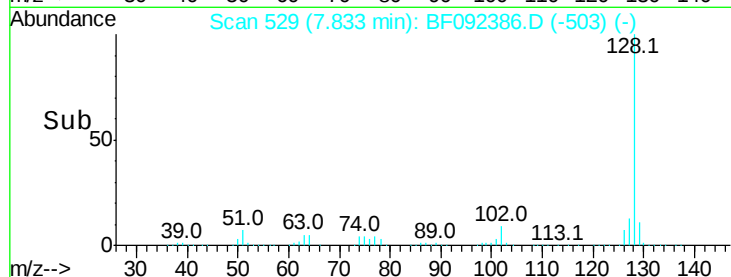
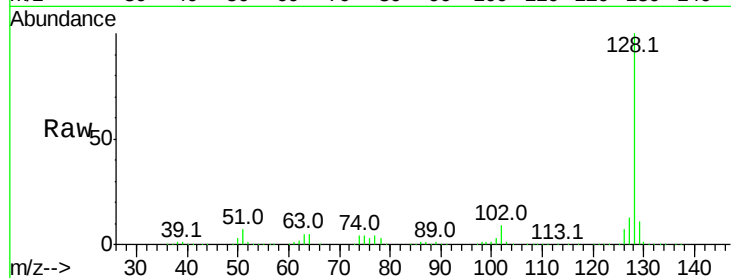
ClientSampleId :

BLACK-FILL1-0-5FT-COMP

Tot Ion:	128	Resp:	829252
Ion Ratio	Lower	Upper	
128	100		
129	11.4	9.5	14.3
127	12.9	10.8	16.2

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#37

2-Methylnaphthalene

Concen: 6.89 ng m

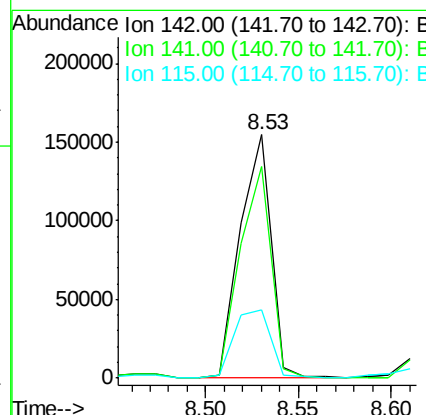
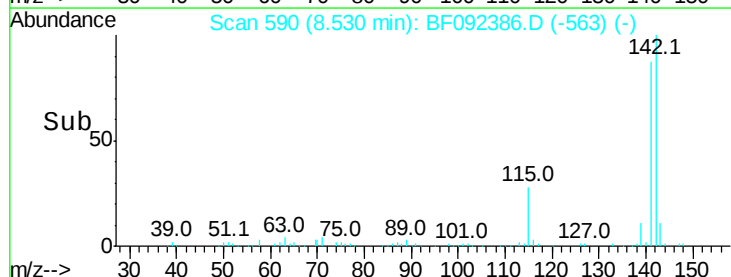
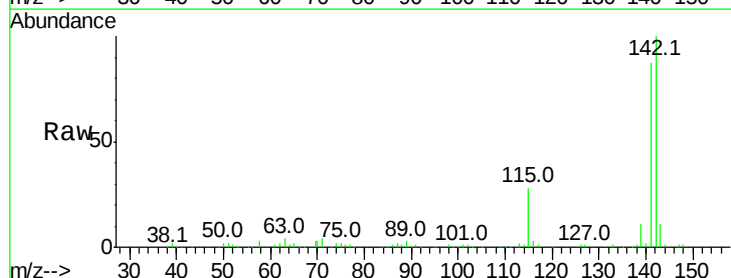
RT: 8.53 min Scan# 590

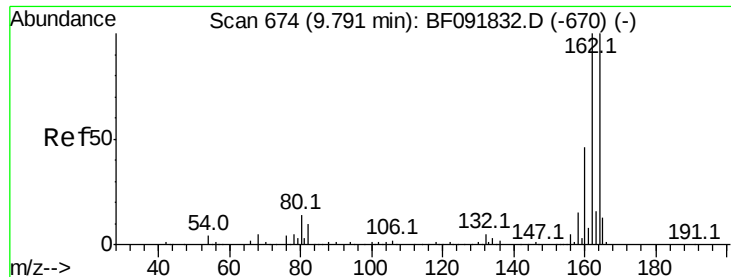
Delta R.T. 0.01 min

Lab File: BF092386.D

Acq: 20 Jan 2017 21:36

Tgt Ion:	142	Resp:	181548
Ion Ratio	Lower	Upper	
142	100		
141	87.1	71.0	106.6
115	27.9	28.3	42.5#





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.56 min Scan# 680

Delta R.T. -0.00 min

Lab File: BF092386.D

Acq: 20 Jan 2017 21:36

Instrument :

BNA_F

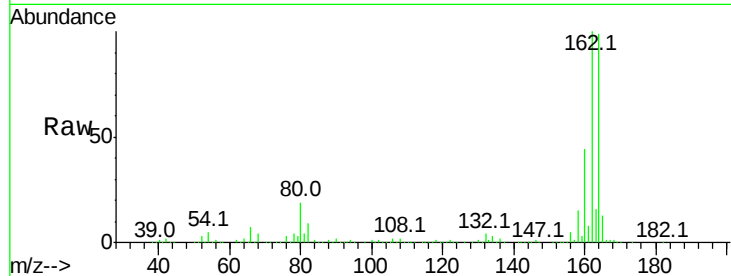
ClientSampleId :

BLACK-FILL1-0-5FT-COMP

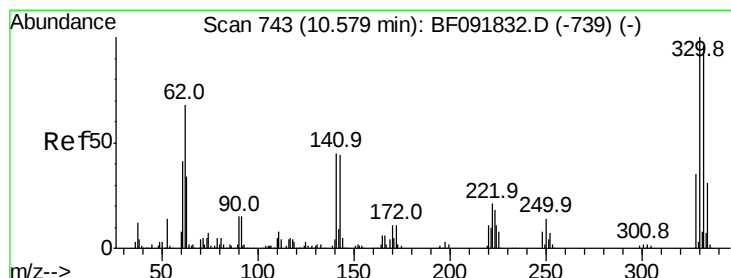
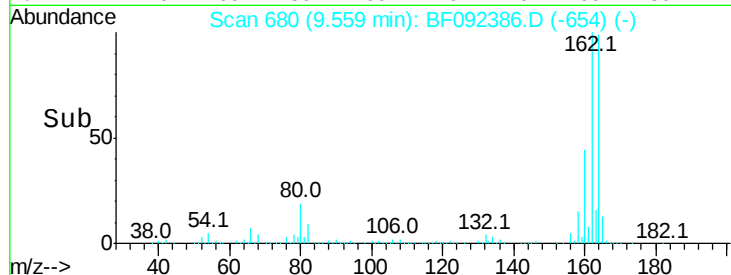
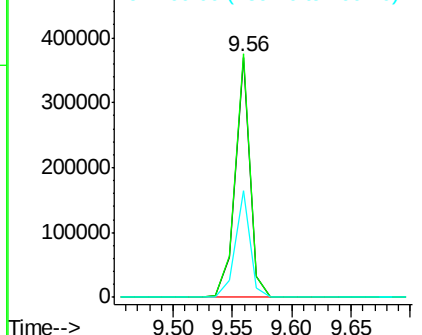
Tot Ion:	164	Resp:	320700
Ion Ratio	Lower	Upper	
164	100		
162	101.5	80.2	120.2
160	44.7	36.9	55.3

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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: 114.89 ng

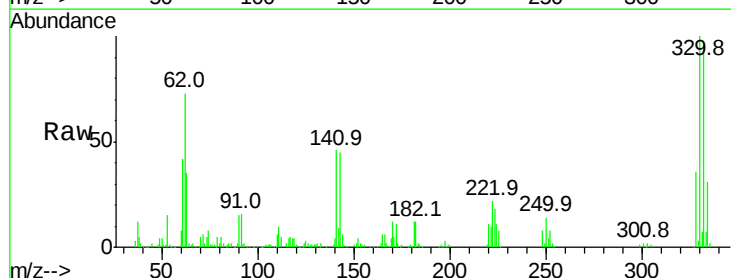
RT: 10.35 min Scan# 749

Delta R.T. -0.00 min

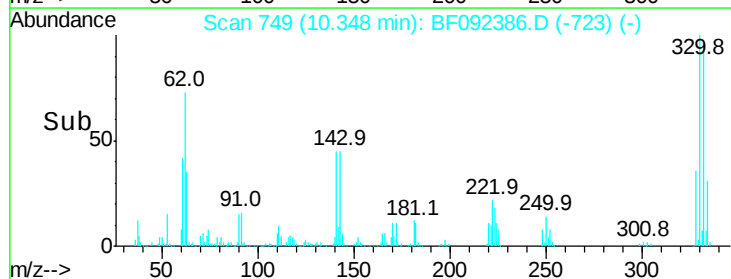
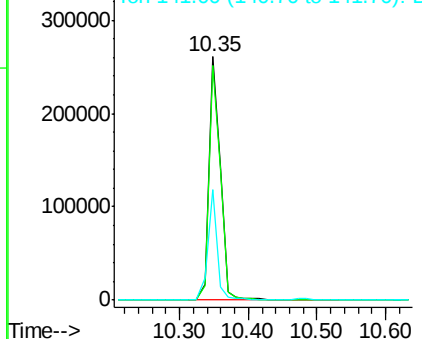
Lab File: BF092386.D

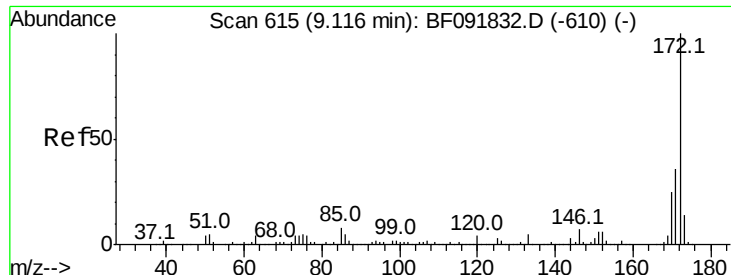
Acq: 20 Jan 2017 21:36

Tgt Ion:	330	Resp:	304911
Ion Ratio	Lower	Upper	
330	100		
332	97.0	77.4	116.2
141	37.4	34.1	51.1



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





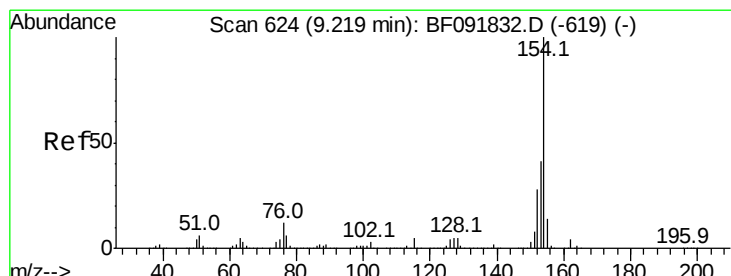
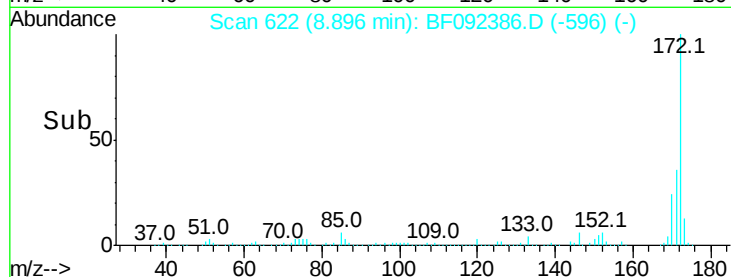
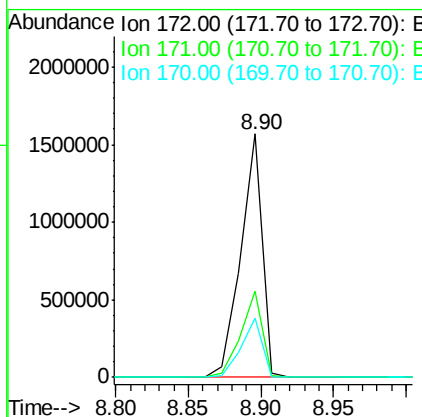
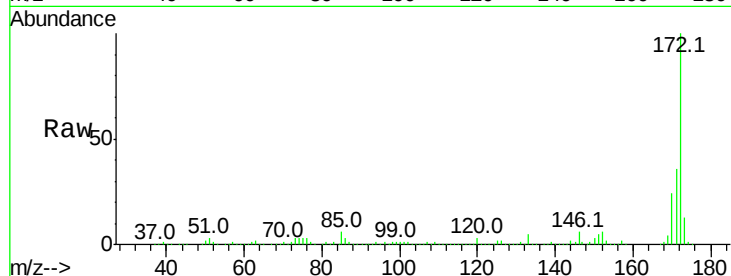
#44
 2-Fluorobiphenyl
 Concen: 106.08 ng
 RT: 8.90 min Scan# 622
 Delta R.T. -0.00 min
 Lab File: BF092386.D
 Acq: 20 Jan 2017 21:36

Instrument :
 BNA_F
 ClientSampleId :
 BLACK-FILL1-0-5FT-COMP

Tot Ion	Ratio	Lower	Upper
172	100		
171	35.6	29.4	44.0
170	24.4	20.2	30.4

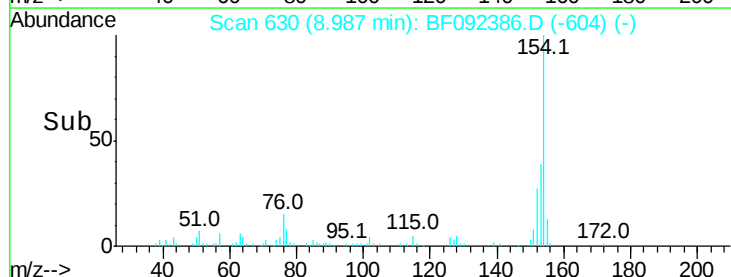
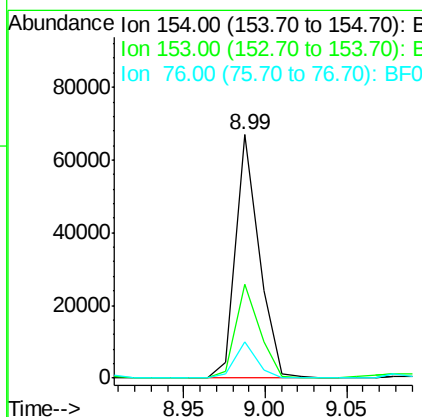
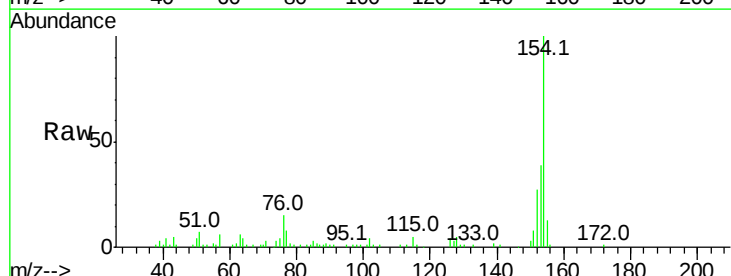
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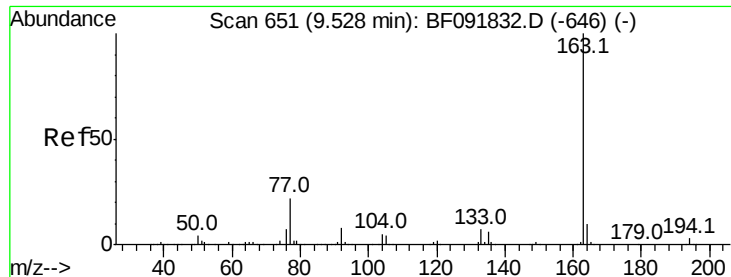
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#45
 1,1'-Biphenyl
 Concen: 3.03 ng
 RT: 8.99 min Scan# 630
 Delta R.T. -0.00 min
 Lab File: BF092386.D
 Acq: 20 Jan 2017 21:36

Tgt Ion	Ratio	Lower	Upper
154	100		
153	38.8	20.9	60.9
76	14.9	0.0	30.5





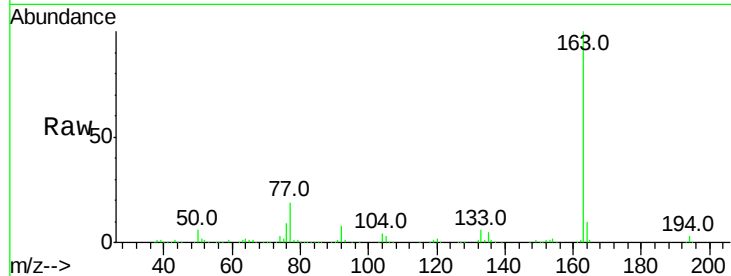
#49
Dimethylphthalate
Concen: 13.11 ng
RT: 9.30 min Scan# 657
Delta R.T. -0.01 min
Lab File: BF092386.D
Acq: 20 Jan 2017 21:36

Instrument :
BNA_F
ClientSampleId :
BLACK-FILL1-0-5FT-COMP

Tot Ion	Ratio	Resp	Lower	Upper
163	100	268926		
194	3.4		3.0	4.4
164	9.6		8.0	12.0

Manual Integrations
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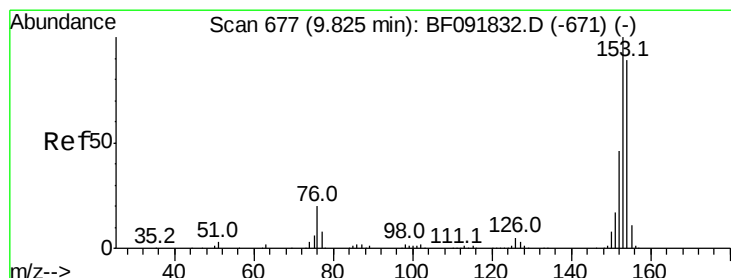
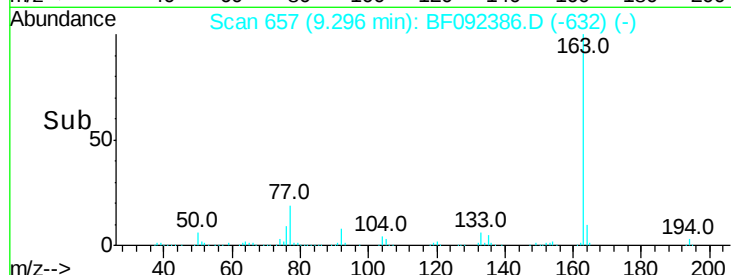
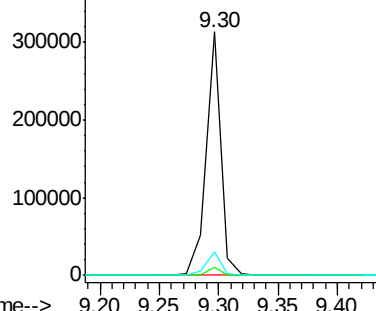


Abundance

Ion 163.00 (162.70 to 163.70): E

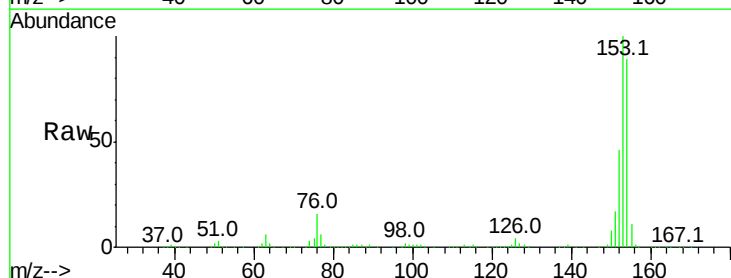
Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#51
Acenaphthene
Concen: 13.44 ng
RT: 9.59 min Scan# 683
Delta R.T. -0.00 min
Lab File: BF092386.D
Acq: 20 Jan 2017 21:36

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	243773		
153	112.4		88.6	133.0
152	51.2		41.6	62.4

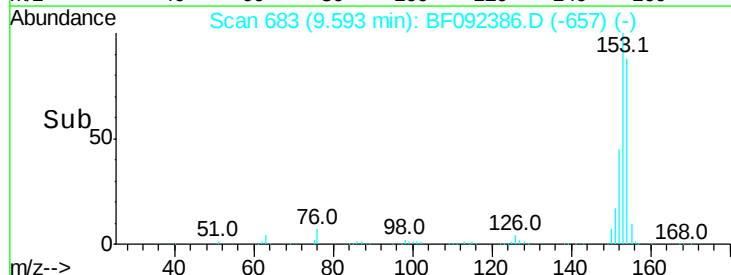
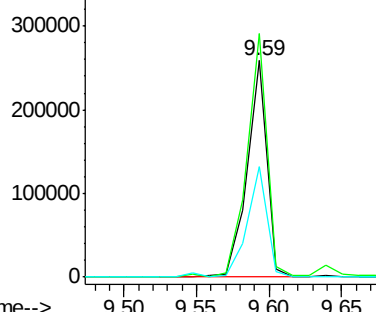


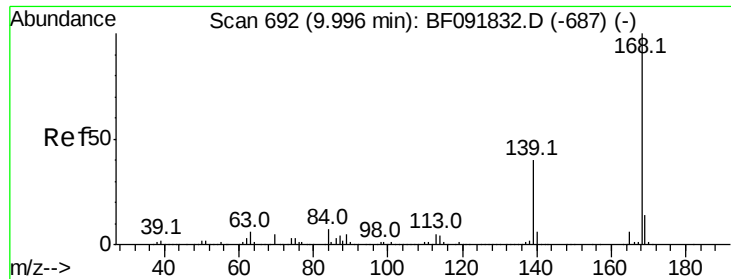
Abundance

Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





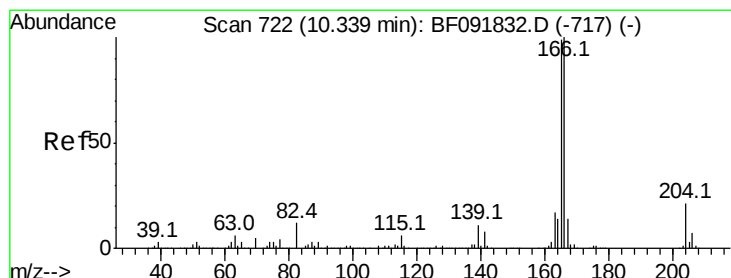
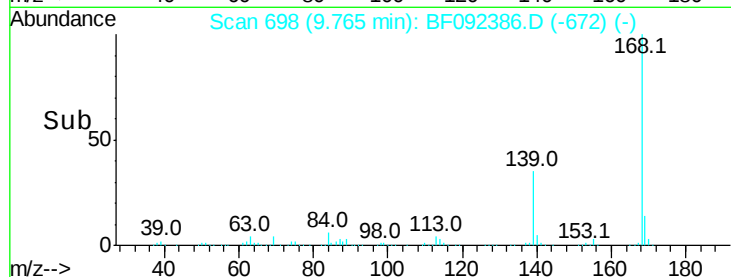
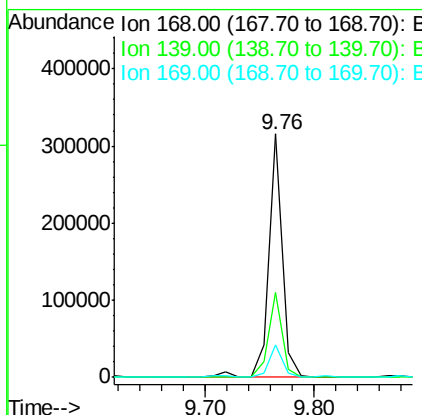
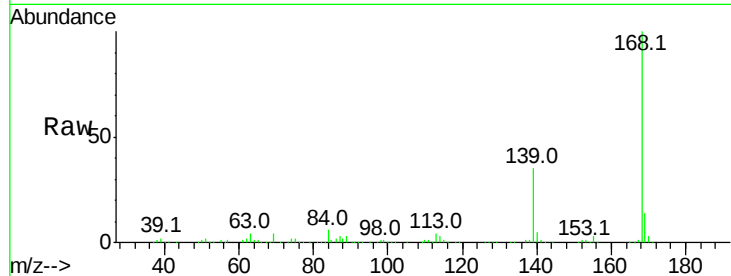
#54
Dibenzofuran
Concen: 11.37 ng
RT: 9.76 min Scan# 698
Delta R.T. -0.00 min
Lab File: BF092386.D
Acq: 20 Jan 2017 21:36

Instrument :
BNA_F
ClientSampleId :
BLACK-FILL1-0-5FT-COMP

Tot Ion	Ratio	Lower	Upper
168	100		
139	34.6	32.6	49.0
169	13.6	11.3	16.9

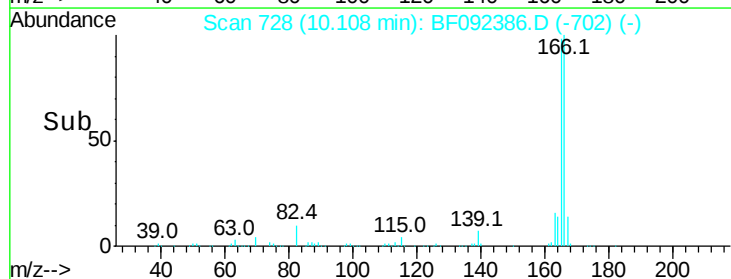
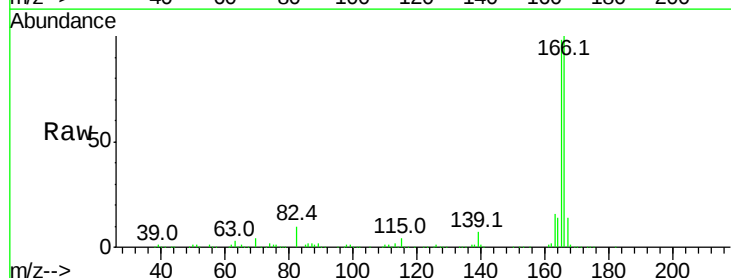
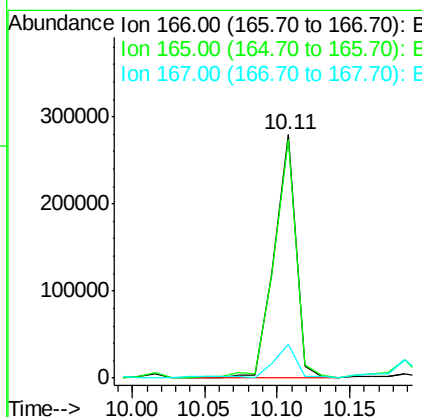
Manual Integrations
APPROVED

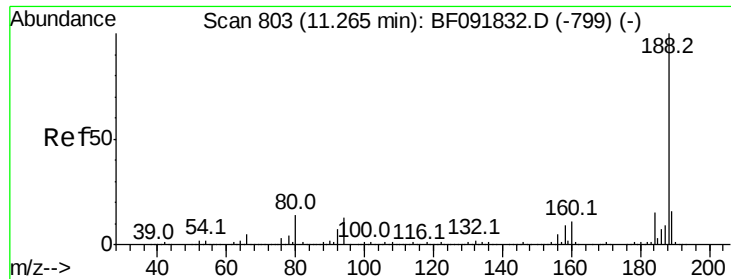
mohammad
1/23/2017 2:45:06 PM



#57
Fluorene
Concen: 16.19 ng
RT: 10.11 min Scan# 728
Delta R.T. -0.00 min
Lab File: BF092386.D
Acq: 20 Jan 2017 21:36

Tgt Ion	Ratio	Lower	Upper
166	100		
165	97.7	77.8	116.8
167	13.9	10.8	16.2





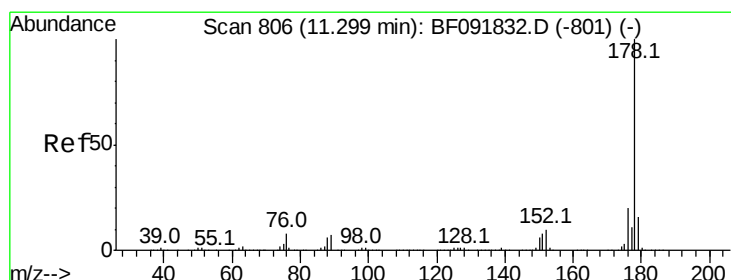
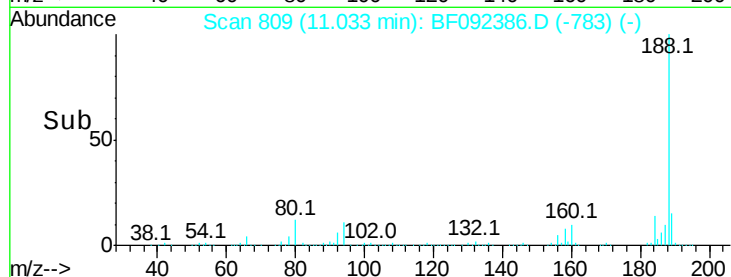
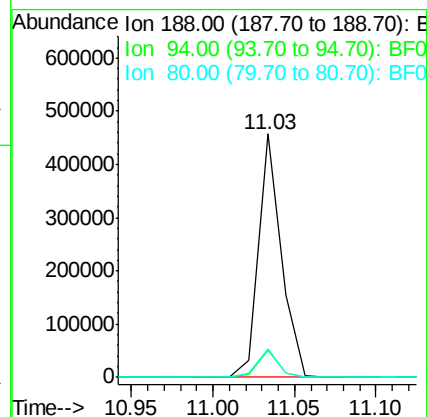
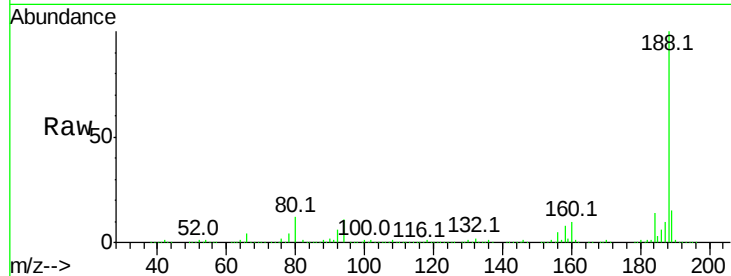
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.03 min Scan# 809
Delta R.T. -0.00 min
Lab File: BF092386.D
Acq: 20 Jan 2017 21:36

Instrument :
BNA_F
ClientSampleId :
BLACK-FILL1-0-5FT-COMP

Tot Ion	Ratio	Resp	Lower	Upper
188	100	444075		
94	11.3		10.0	15.0
80	12.0		11.2	16.8

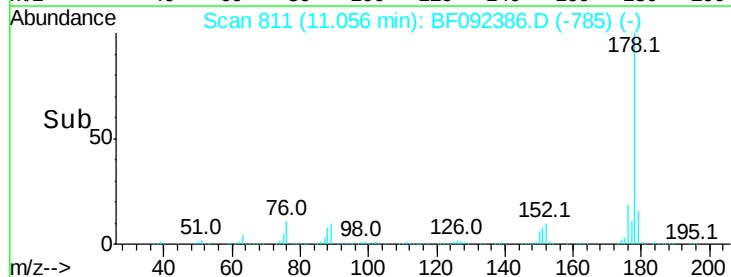
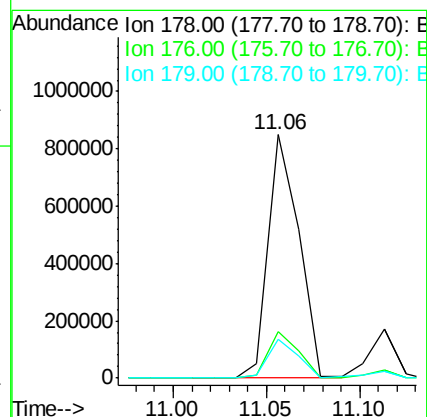
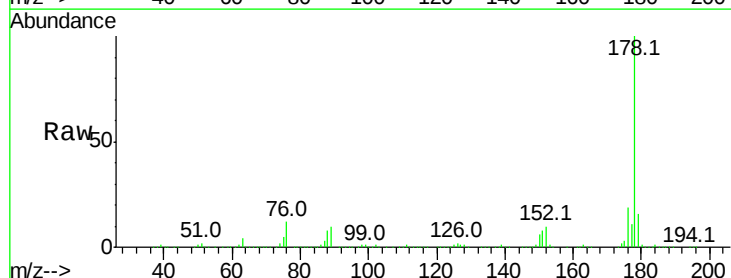
Manual Integrations
APPROVED

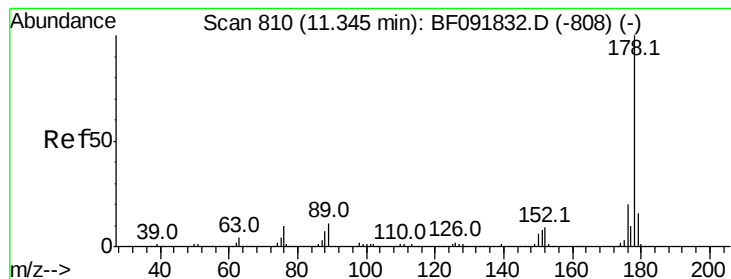
mohammad
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#70
Phenanthrene
Concen: 40.87 ng
RT: 11.06 min Scan# 811
Delta R.T. -0.00 min
Lab File: BF092386.D
Acq: 20 Jan 2017 21:36

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	984247		
176	19.0		16.6	25.0
179	15.9		12.8	19.2





#71

Anthracene

Concen: 5.46 ng

RT: 11.11 min Scan# 816

Delta R.T. -0.00 min

Lab File: BF092386.D

Acq: 20 Jan 2017 21:36

Instrument :

BNA_F

ClientSampleId :

BLACK-FILL1-0-5FT-COMP

Tot Ion:178 Resp: 163692

Ion Ratio Lower Upper

178 100

176 17.9 15.9 23.9

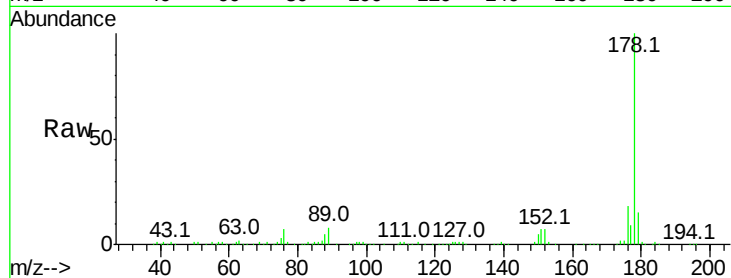
179 15.3 13.2 19.8

Manual Integrations

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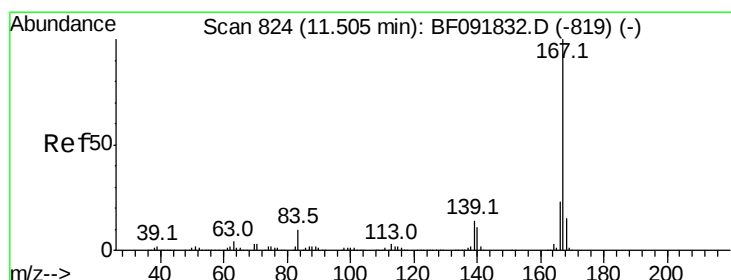
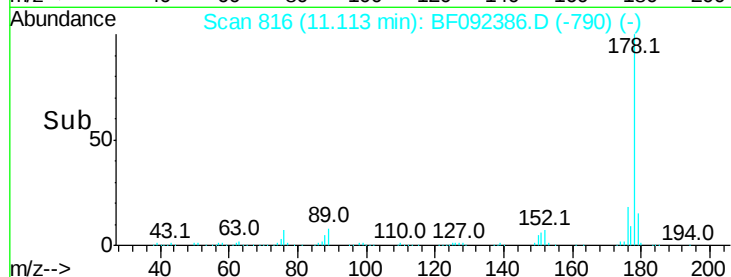
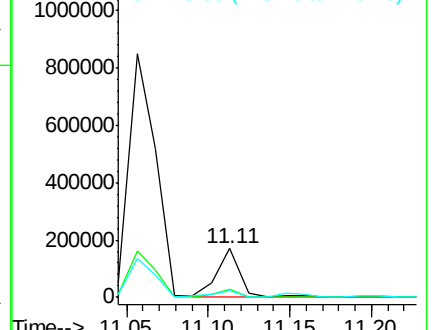
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Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#72

Carbazole

Concen: 2.51 ng

RT: 11.27 min Scan# 830

Delta R.T. -0.00 min

Lab File: BF092386.D

Acq: 20 Jan 2017 21:36

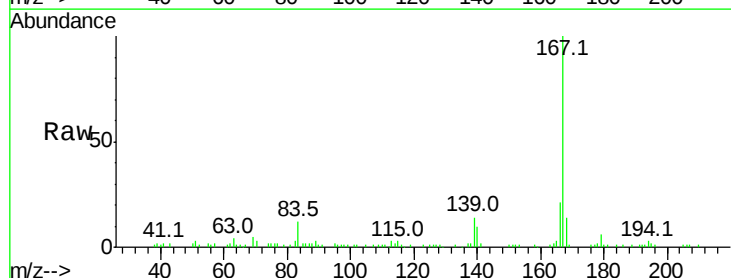
Tgt Ion:167 Resp: 68027

Ion Ratio Lower Upper

167 100

166 21.3 18.2 27.2

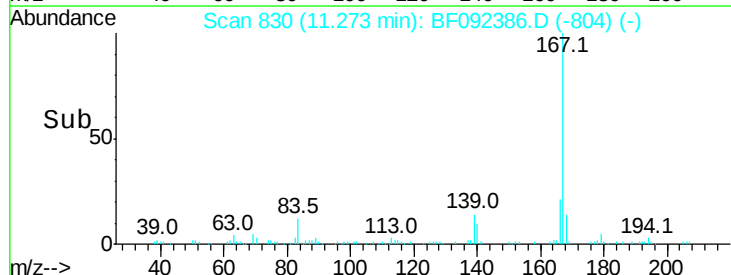
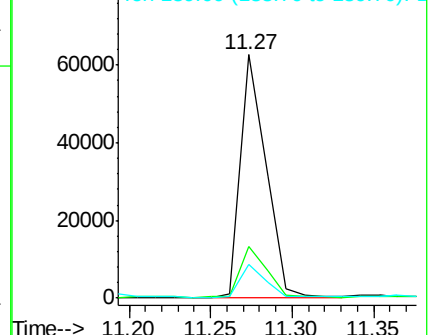
139 13.7 11.4 17.2

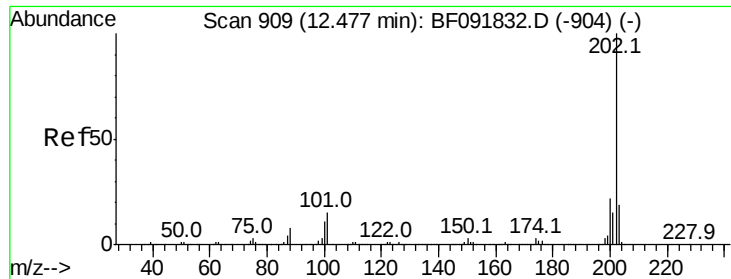


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 33.14 ng

RT: 12.24 min Scan# 915

Delta R.T. -0.00 min

Lab File: BF092386.D

Acq: 20 Jan 2017 21:36

Instrument :

BNA_F

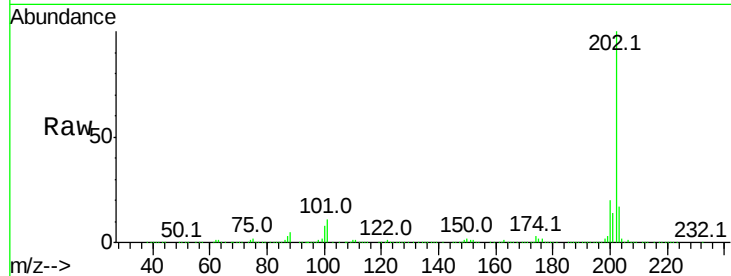
ClientSampleId :

BLACK-FILL1-0-5FT-COMP

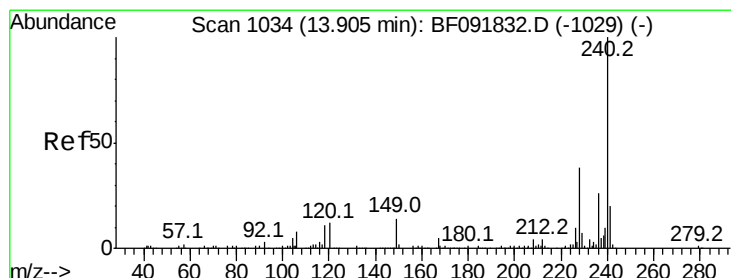
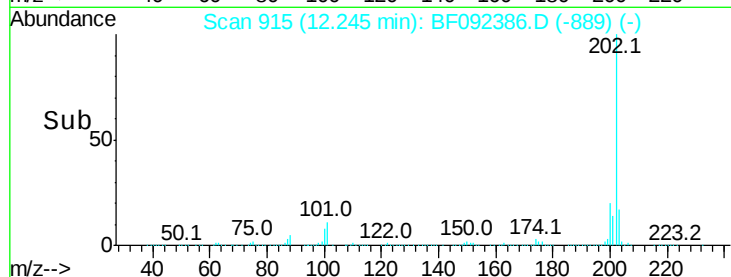
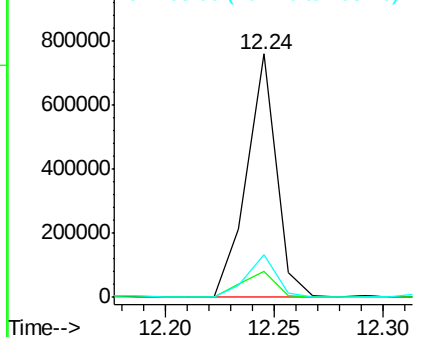
Tot Ion	Ratio	Resp	Lower	Upper
202	100	721360		
101	10.8	0.0	34.6	
203	17.5	0.0	38.7	

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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

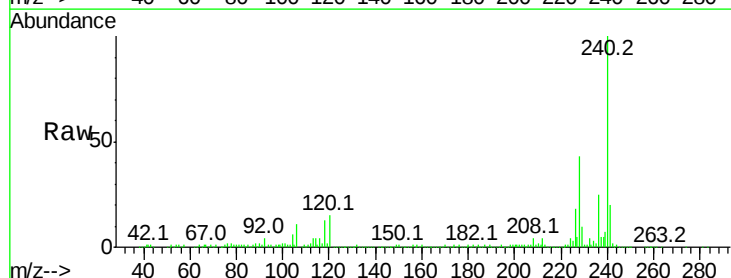
RT: 13.66 min Scan# 1039

Delta R.T. -0.00 min

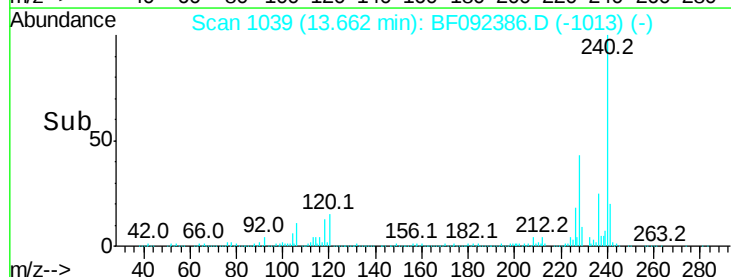
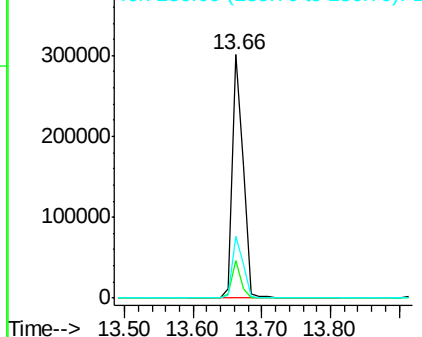
Lab File: BF092386.D

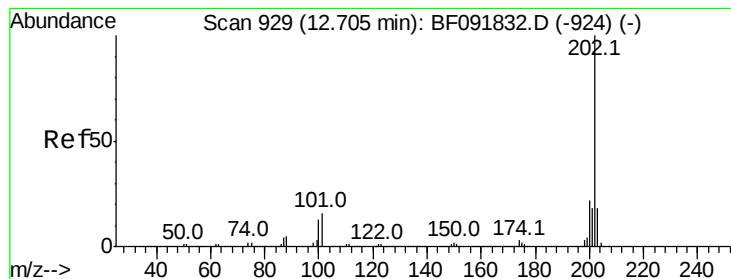
Acq: 20 Jan 2017 21:36

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	338191		
120	15.3	12.9	19.3	
236	25.2	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: 24.03 ng

RT: 12.47 min Scan# 935

Delta R.T. 0.01 min

Lab File: BF092386.D

Acq: 20 Jan 2017 21:36

Instrument :

BNA_F

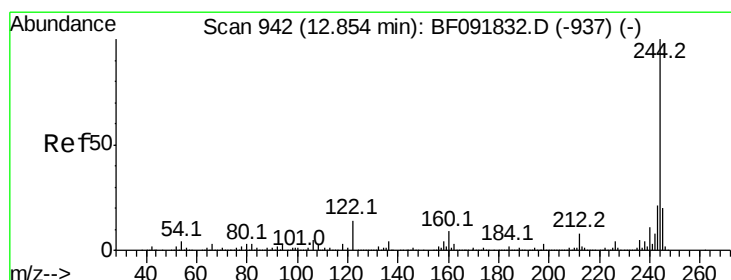
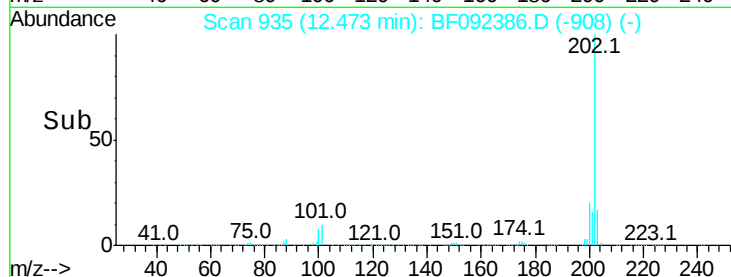
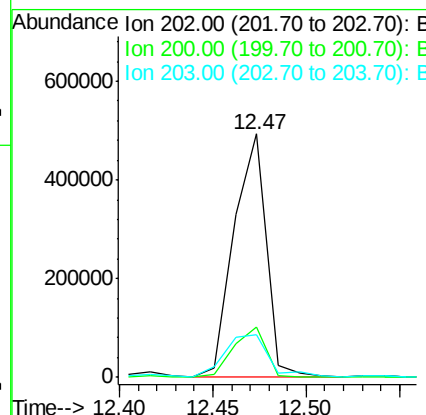
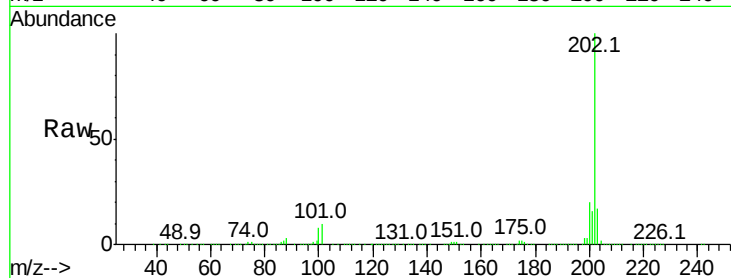
ClientSampleId :

BLACK-FILL1-0-5FT-COMP

Tot Ion:202	Resp:	596249
Ion Ratio	Lower	Upper
202 100		
200 20.4	17.7	26.5
203 17.5	14.7	22.1

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#78

Terphenyl-d14

Concen: 71.14 ng

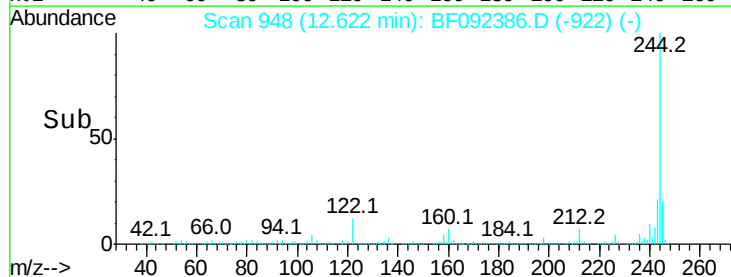
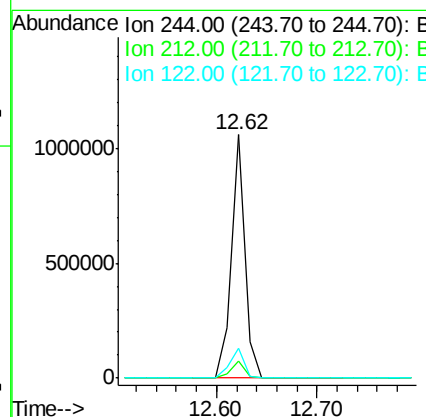
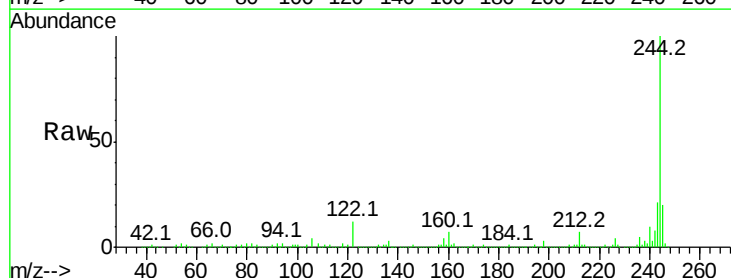
RT: 12.62 min Scan# 948

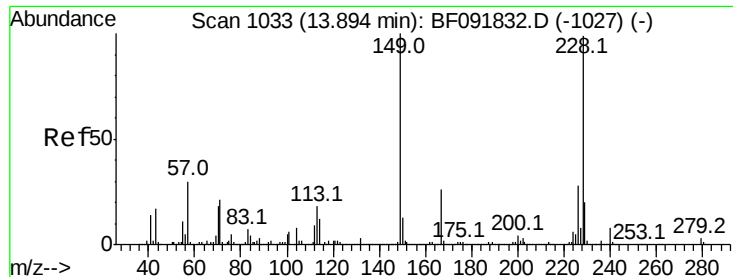
Delta R.T. -0.00 min

Lab File: BF092386.D

Acq: 20 Jan 2017 21:36

Tgt Ion:244	Resp:	991974
Ion Ratio	Lower	Upper
244 100		
212 6.9	6.2	9.2
122 12.4	11.4	17.2





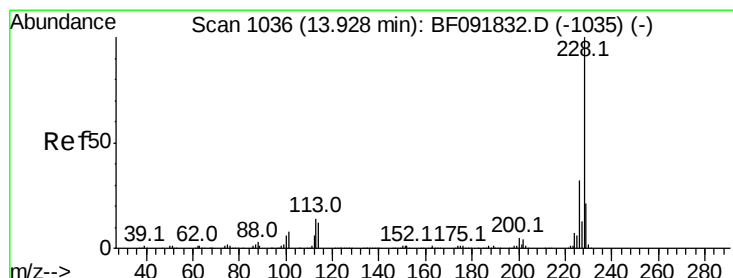
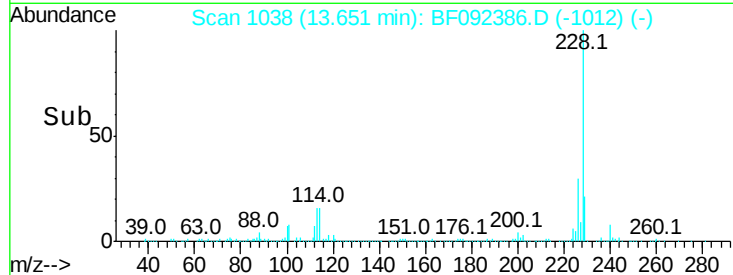
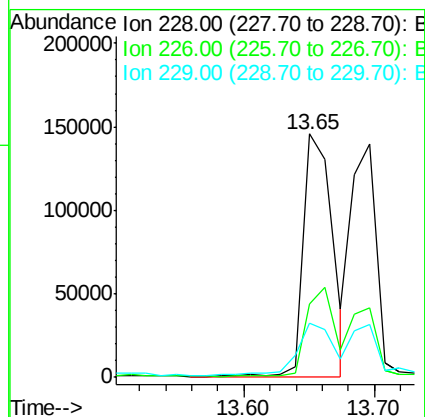
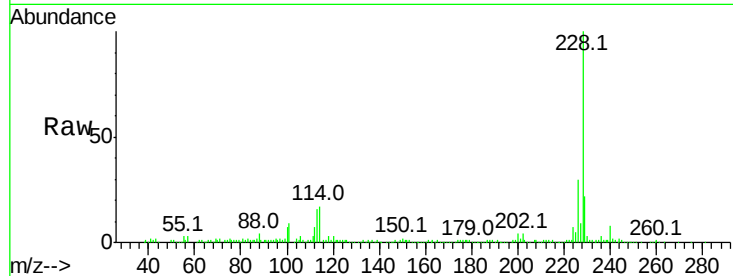
#80
Benzo(a)anthracene
Concen: 11.70 ng
RT: 13.65 min Scan# 1038
Delta R.T. -0.00 min
Lab File: BF092386.D
Acq: 20 Jan 2017 21:36

Instrument :
BNA_F
ClientSampleId :
BLACK-FILL1-0-5FT-COMP

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.3	22.4	33.6
229	22.5	16.2	24.4

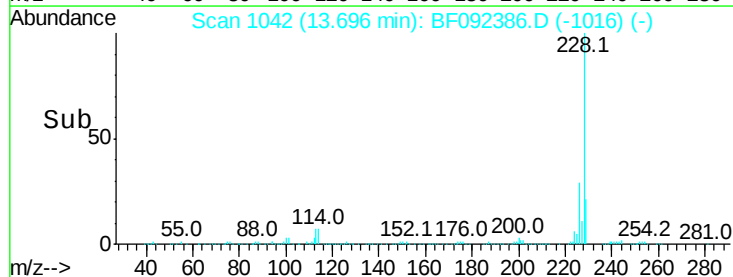
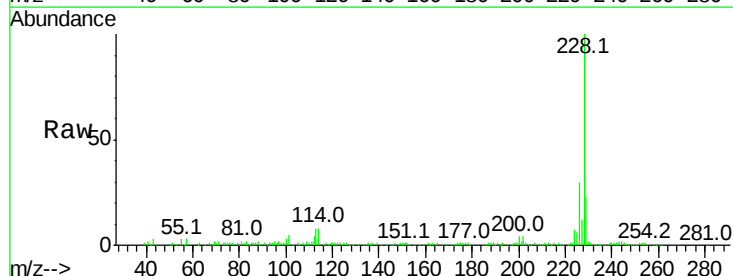
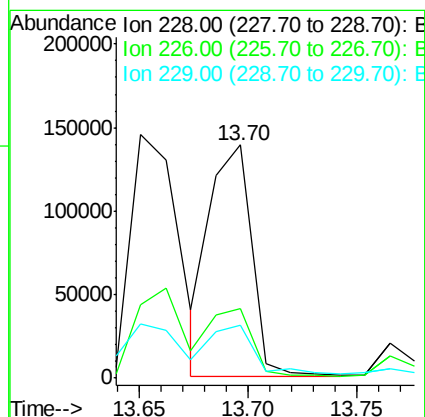
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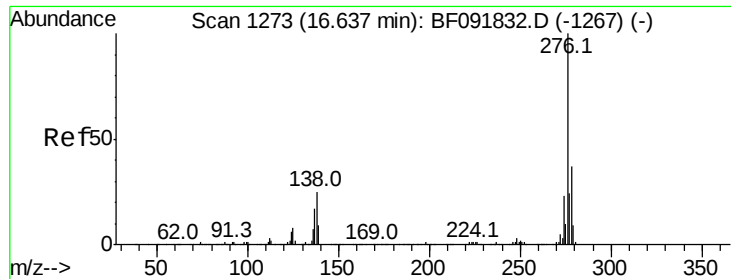
mohammad
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#82
Chrysene
Concen: 9.66 ng
RT: 13.70 min Scan# 1042
Delta R.T. -0.00 min
Lab File: BF092386.D
Acq: 20 Jan 2017 21:36

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.0	25.4	38.0
229	22.8	16.2	24.2





#85

Indeno(1,2,3-cd)pyrene

Concen: 4.35 ng

RT: 16.23 min Scan# 1264

Delta R.T. 0.01 min

Lab File: BF092386.D

Acq: 20 Jan 2017 21:36

Instrument :

BNA_F

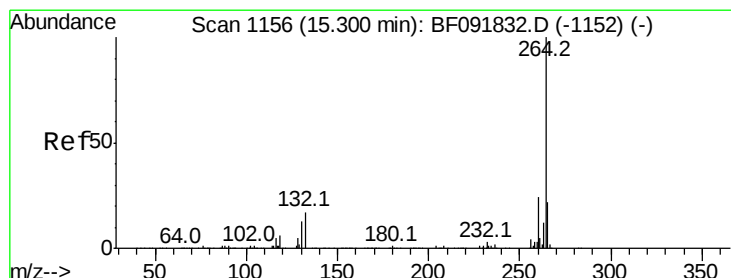
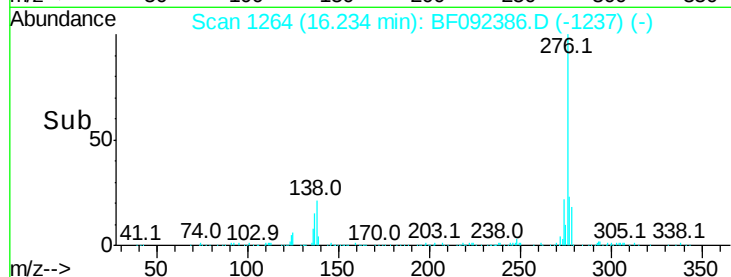
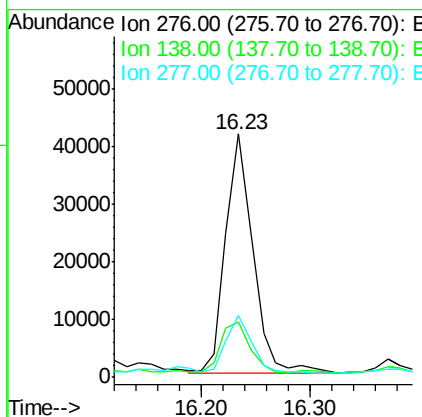
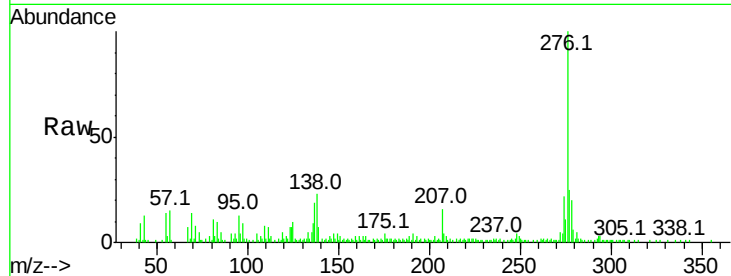
ClientSampleId :

BLACK-FILL1-0-5FT-COMP

Tot Ion:	276	Resp:	72218
Ion	Ratio	Lower	Upper
276	100		
138	22.8	21.8	32.6
277	23.9	20.2	30.4

Manual Integrations
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#86

Perylene-d12

Concen: 20.00 ng

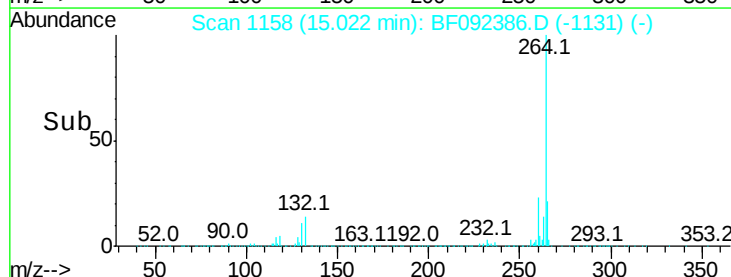
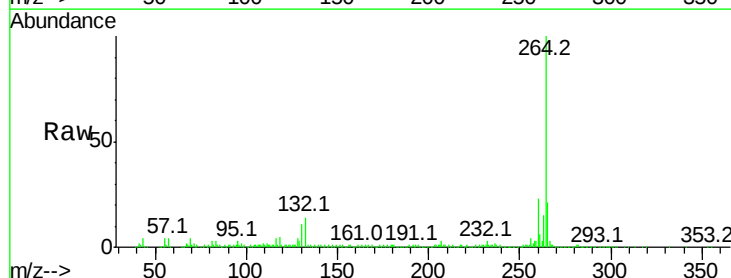
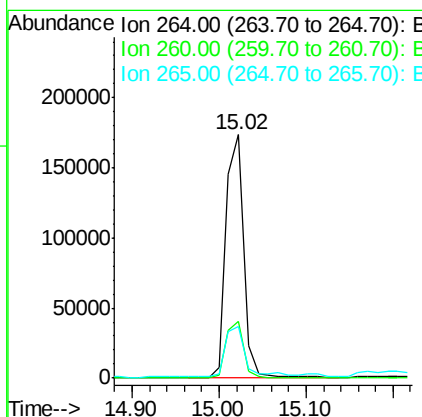
RT: 15.02 min Scan# 1158

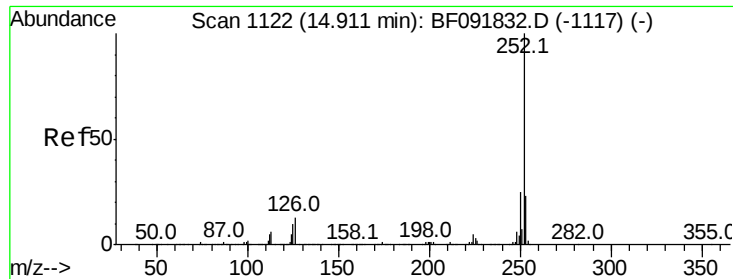
Delta R.T. 0.01 min

Lab File: BF092386.D

Acq: 20 Jan 2017 21:36

Tgt Ion:	264	Resp:	245909
Ion	Ratio	Lower	Upper
264	100		
260	23.2	19.2	28.8
265	21.3	17.4	26.0





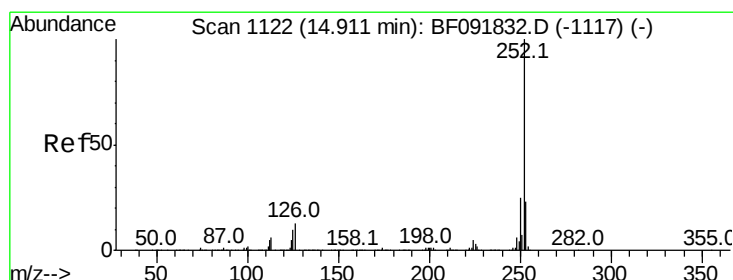
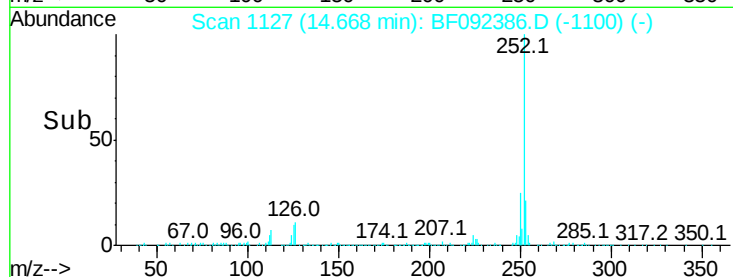
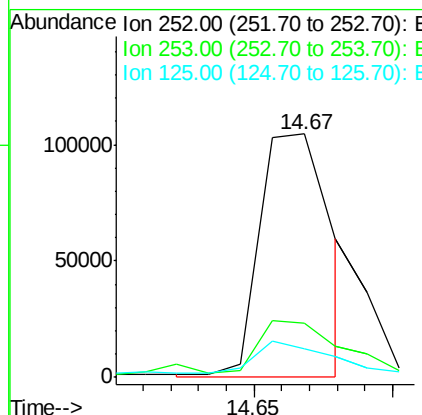
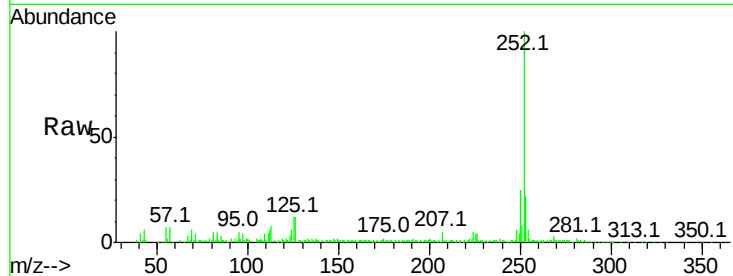
#87
Benzo(b)fluoranthene
Concen: 12.29 ng m
RT: 14.67 min Scan# 1127
Delta R.T. 0.01 min
Lab File: BF092386.D
Acq: 20 Jan 2017 21:36

Instrument :
BNA_F
ClientSampleId :
BLACK-FILL1-0-5FT-COMP

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.5	18.2	27.4
125	11.8	9.8	14.6

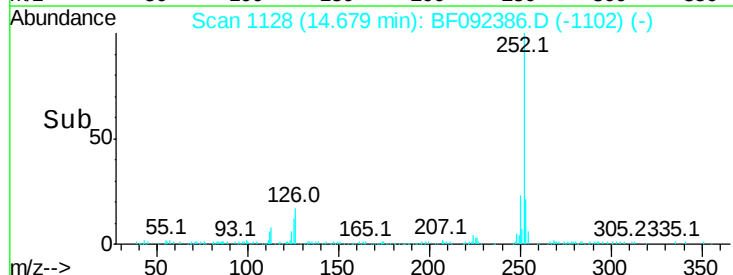
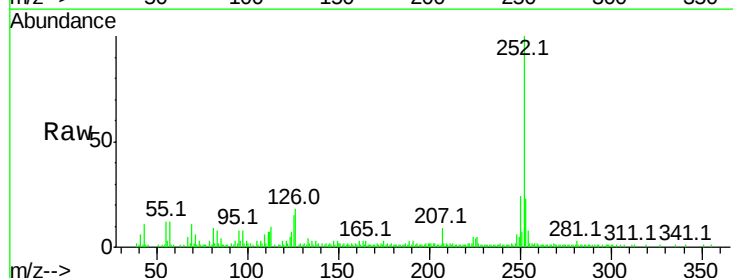
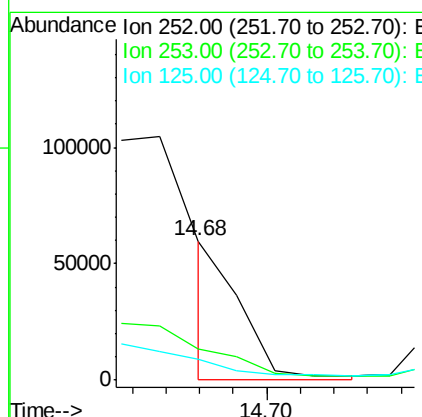
Manual Integrations
APPROVED

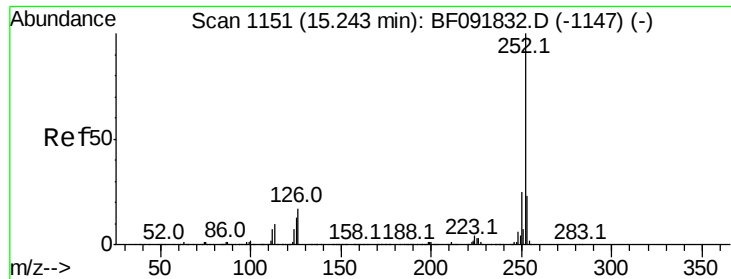
mohammad
1/23/2017 2:45:06 PM



#88
Benzo(k)fluoranthene
Concen: 2.34 ng m
RT: 14.68 min Scan# 1128
Delta R.T. -0.00 min
Lab File: BF092386.D
Acq: 20 Jan 2017 21:36

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.7	18.5	27.7
125	14.8	8.9	13.3#





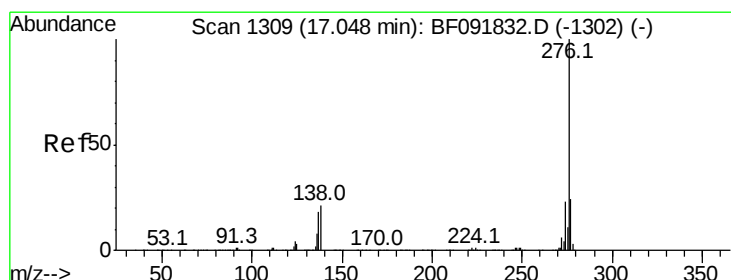
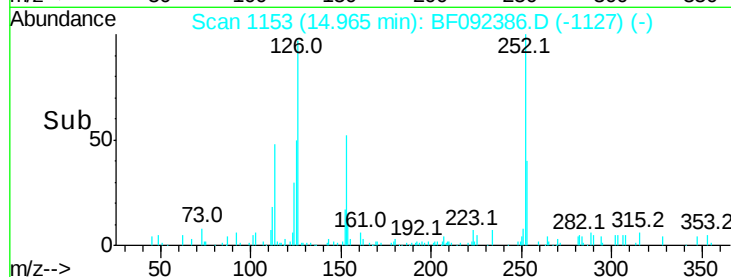
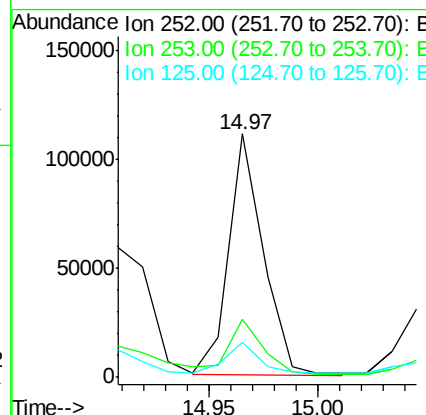
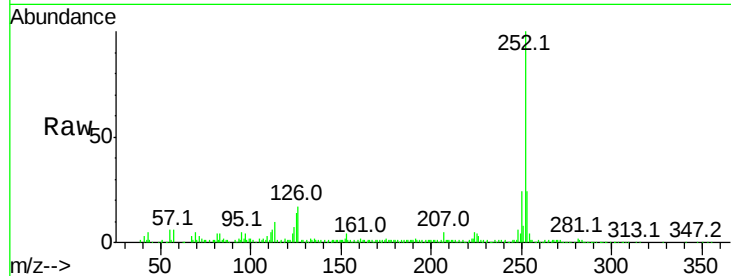
#89
Benzo(a)pyrene
Concen: 9.02 ng
RT: 14.97 min Scan# 1153
Delta R.T. -0.00 min
Lab File: BF092386.D
Acq: 20 Jan 2017 21:36

Instrument :
BNA_F
ClientSampleId :
BLACK-FILL1-0-5FT-COMP

Tot Ion	Ratio	Resp Lower	Upper
252	100		
253	23.6	18.2	27.2
125	14.3	10.0	15.0

Manual Integrations
APPROVED

mohammad
1/23/2017 2:45:06 PM



#91
Benzo(g,h,i)perylene
Concen: 6.16 ng
RT: 16.60 min Scan# 1296
Delta R.T. 0.02 min
Lab File: BF092386.D
Acq: 20 Jan 2017 21:36

Tgt Ion	Ratio	Resp Lower	Upper
276	100		
277	25.0	19.2	28.8
138	24.4	16.0	24.0

