

Data Path : Z:\HPCHEM1\BNA F\DATA\BF123016\
 Data File : BF092047.D
 Acq On : 30 Dec 2016 15:24
 Operator : UM/SJ
 Sample : H6304-03
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP11-COMP8

Manual Integrations
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mohammad
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Quant Time: Dec 30 18:06:03 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF122116.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Dec 28 17:32:10 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.68	152	215791	20.00	ng	-0.02
21) Naphthalene-d8	7.97	136	906264	20.00	ng	-0.02
38) Acenaphthene-d10	9.72	164	498123	20.00	ng	-0.03
63) Phenanthrene-d10	11.20	188	790199	20.00	ng	-0.03
75) Chrysene-d12	13.84	240	495740	20.00	ng	-0.03
86) Perylene-d12	15.21	264	555091	20.00	ng	-0.05
System Monitoring Compounds						
5) 2-Fluorophenol	5.29	112	1254780	97.09	ng	-0.03
7) Phenol-d6	6.35	99	1904498	120.70	ng	-0.03
23) Nitrobenzene-d5	7.25	82	1060023	65.04	ng	-0.03
41) 2,4,6-Tribromophenol	10.51	330	423540	102.74	ng	-0.03
44) 2-Fluorobiphenyl	9.05	172	1654601	65.03	ng	-0.03
78) Terphenyl-d14	12.78	244	1318717	64.51	ng	-0.03
Target Compounds						Qvalue
31) Naphthalene	7.98	128	319867	7.71	ng	98
37) 2-Methylnaphthalene	8.68	142	190036	5.45	ng	97
48) Acenaphthylene	9.57	152	91341	2.20	ng	98
49) Dimethylphthalate	9.45	163	743182	23.33	ng	99
51) Acenaphthene	9.74	154	158797	5.64	ng	100
54) Dibenzofuran	9.92	168	229199	6.03	ng	99
57) Fluorene	10.26	166	270536	9.78	ng	100
59) Diethylphthalate	10.13	149	89084	2.88	ng	99
70) Phenanthrene	11.22	178	1112234	25.96	ng	98
71) Anthracene	11.28	178	308941	5.84	ng	96
72) Carbazole	11.44	167	135021	2.79	ng	98
74) Fluoranthene	12.41	202	1233000	31.67	ng	99
77) Pvrene	12.64	202	1209292	33.25	ng	99
80) Benzo(a)anthracene	13.82	228	602029	21.51	ng	95
82) Chrysene	13.86	228	485726	17.30	ng	96
83) Bis(2-ethylhexyl)phthalate	13.82	149	120548	6.19	ng	# 74
85) Indeno(1,2,3-cd)pvrene	16.51	276	359884	14.80	ng	97
87) Benzo(b)fluoranthene	14.83	252	712305m	20.61	ng	
88) Benzo(k)fluoranthene	14.84	252	288885m	9.80	ng	
89) Benzo(a)pvrene	15.15	252	572050	18.65	ng	# 94
91) Benzo(a,h,i)perylene	16.90	276	406131	15.49	ng	# 94

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

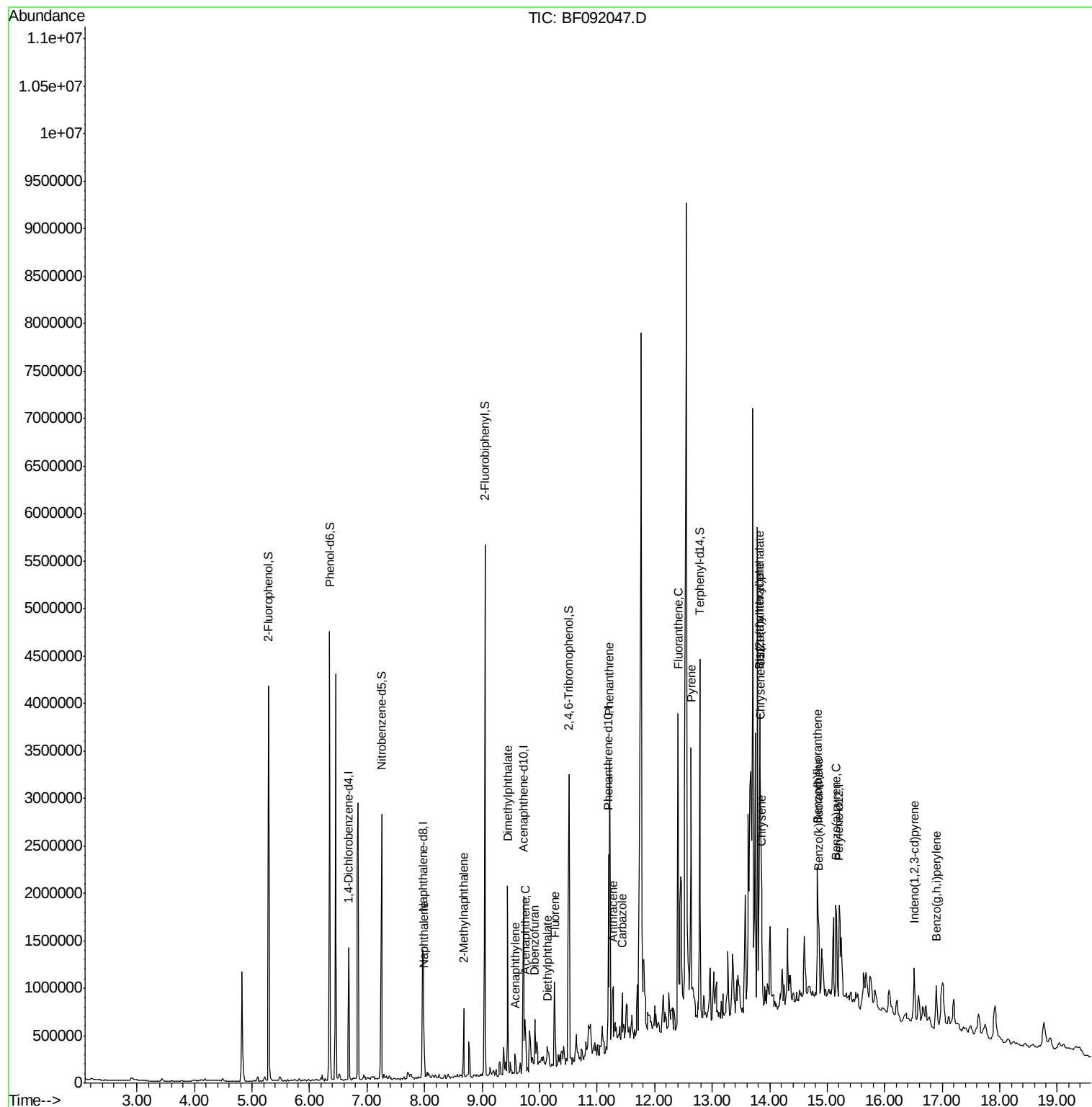
Data Path : Z:\HPCHEM1\BNA F\DATA\BF123016\
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#1

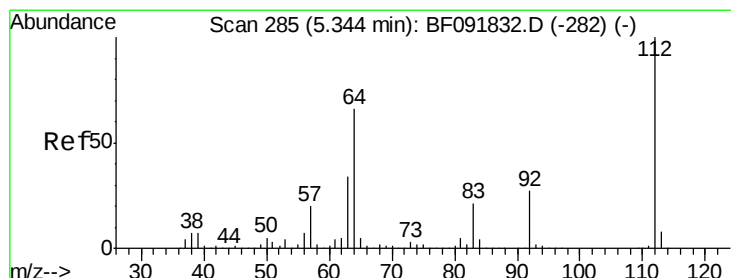
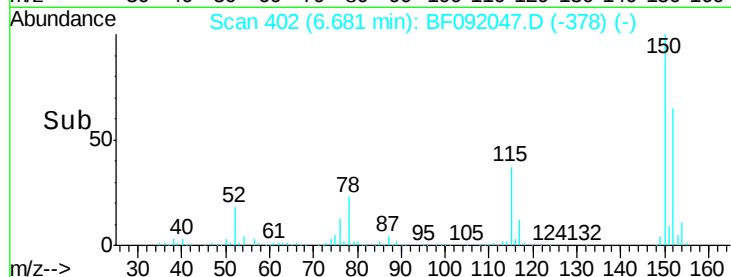
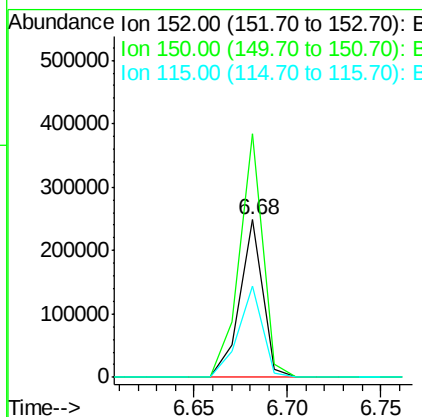
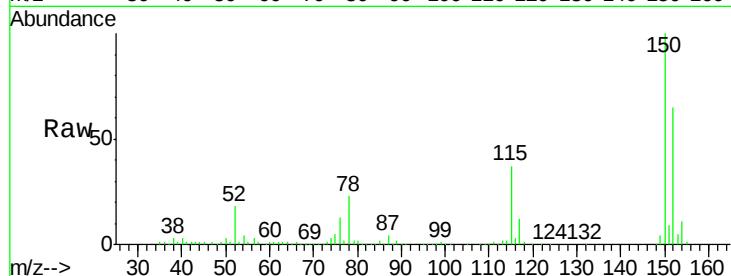
1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 6.68 min Scan# 402
 Delta R.T. -0.02 min
 Lab File: BF092047.D
 Acq: 30 Dec 2016 15:24

Instrument :
 BNA_F
 ClientSampleId :
 TP11-COMP8

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.3	124.9	187.3
115	57.5	46.0	69.0

Manual Integrations
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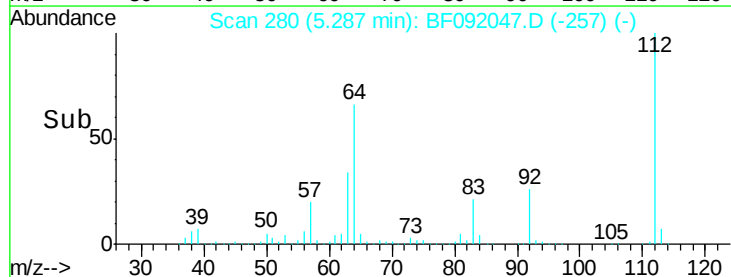
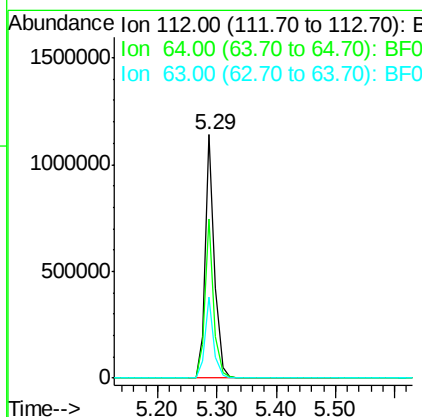
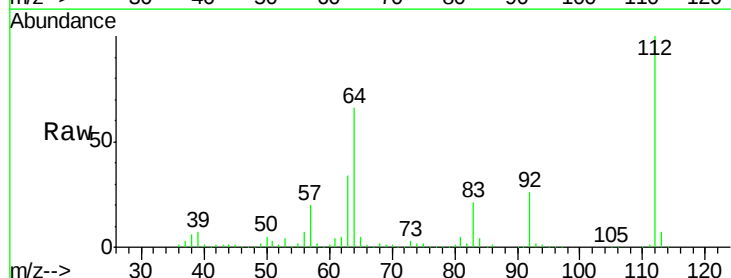
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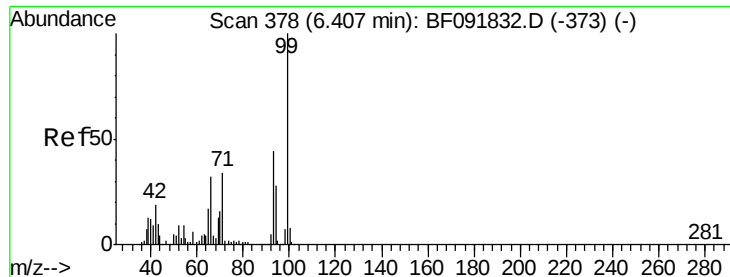


#5

2-Fluorophenol
 Concen: 97.09 ng
 RT: 5.29 min Scan# 280
 Delta R.T. -0.03 min
 Lab File: BF092047.D
 Acq: 30 Dec 2016 15:24

Tgt Ion	Ratio	Lower	Upper
112	100		
64	65.6	46.1	69.1
63	33.5	23.8	35.6





#7

Phenol-d6

Concen: 120.70 ng

RT: 6.35 min Scan# 373

Delta R.T. -0.03 min

Lab File: BF092047.D

Acq: 30 Dec 2016 15:24

Instrument :

BNA_F

ClientSampleId :

TP11-COMP8

Tot Ion: 99 Resp: 1904498

Ion Ratio Lower Upper

99 100

42 18.1 15.6 23.4

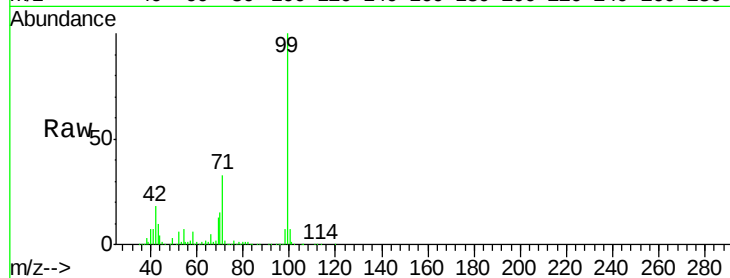
71 33.1 27.5 41.3

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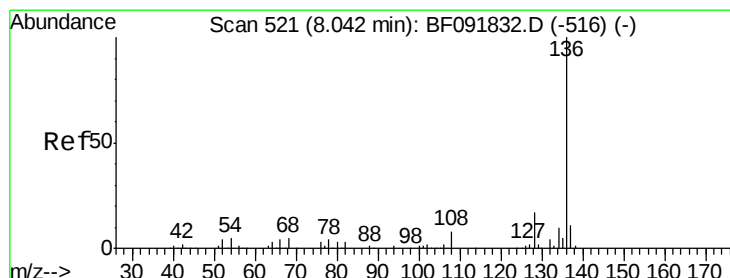
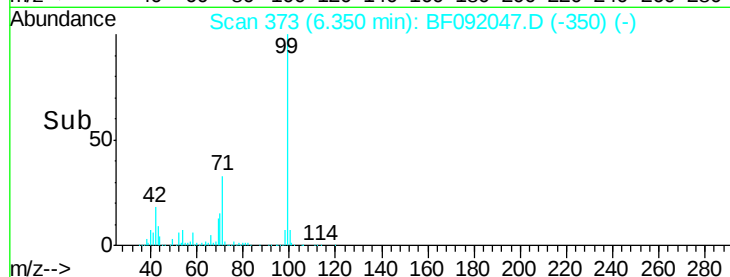
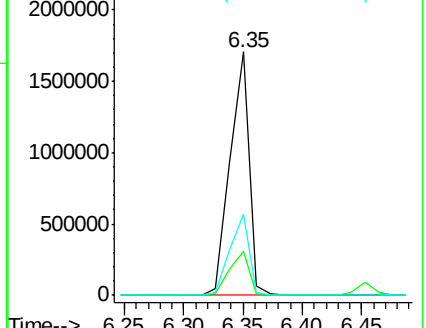
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Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.97 min Scan# 515

Delta R.T. -0.02 min

Lab File: BF092047.D

Acq: 30 Dec 2016 15:24

Tgt Ion: 136 Resp: 906264

Ion Ratio Lower Upper

136 100

137 10.7 8.4 12.6

54 4.9 4.5 6.7

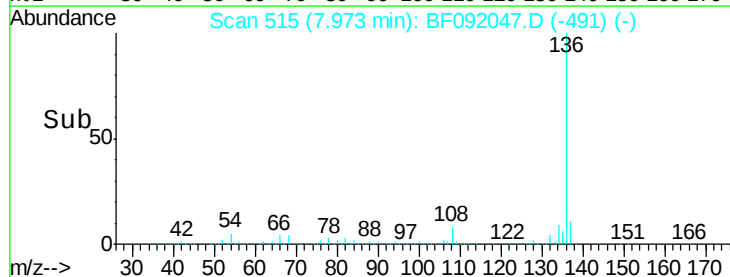
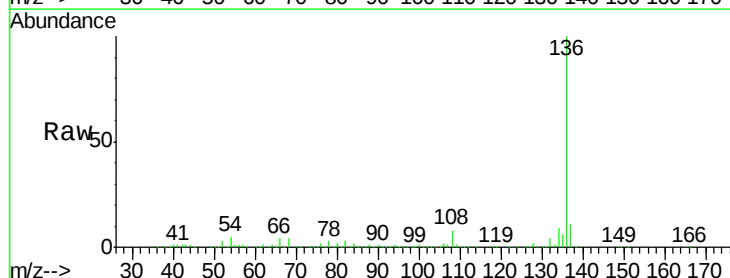
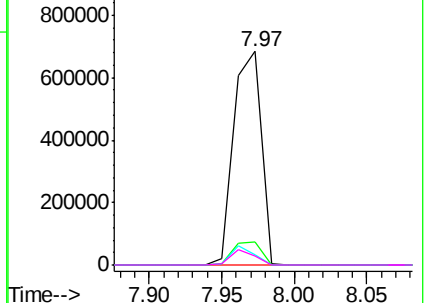
68 4.5 3.6 5.4

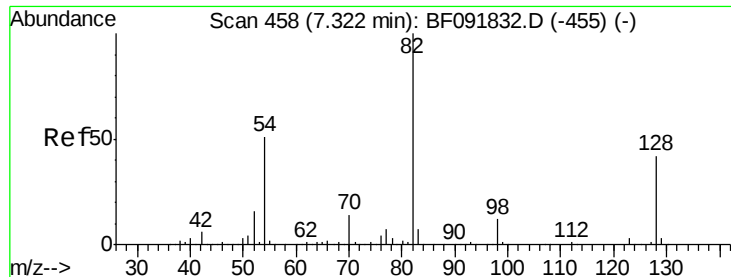
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0





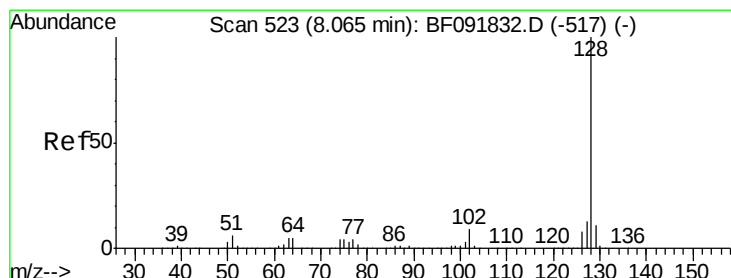
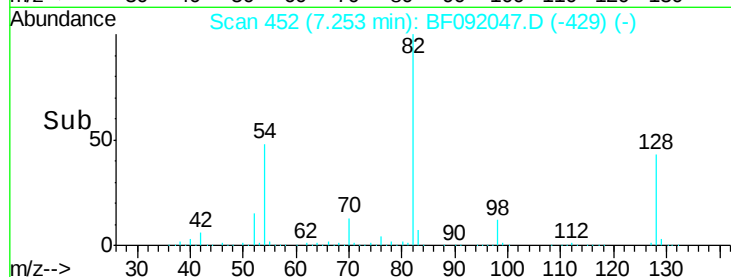
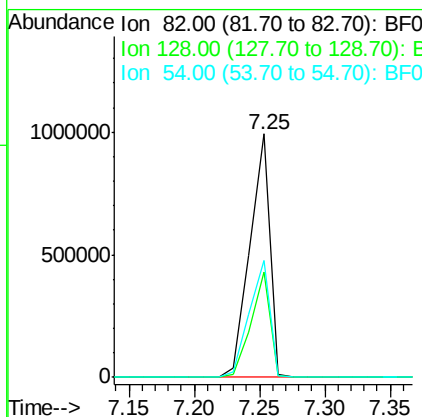
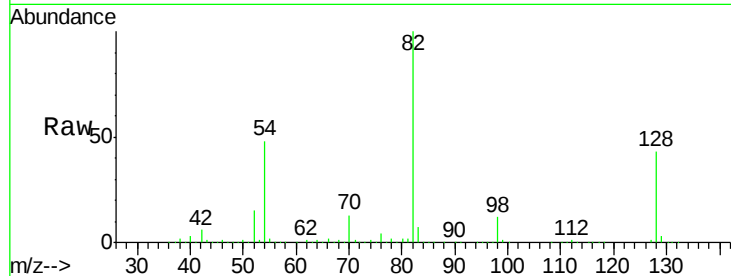
#23
Nitrobenzene-d5
Concen: 65.04 ng
RT: 7.25 min Scan# 452
Delta R.T. -0.03 min
Lab File: BF092047.D
Acq: 30 Dec 2016 15:24

Instrument :
BNA_F
ClientSampleId :
TP11-COMP8

Tot Ion	82	Resp	1060023
Ion Ratio	Lower	Upper	
82	100		
128	43.2	34.6	52.0
54	48.3	39.5	59.3

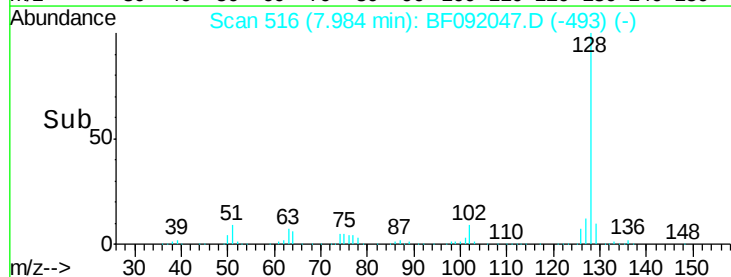
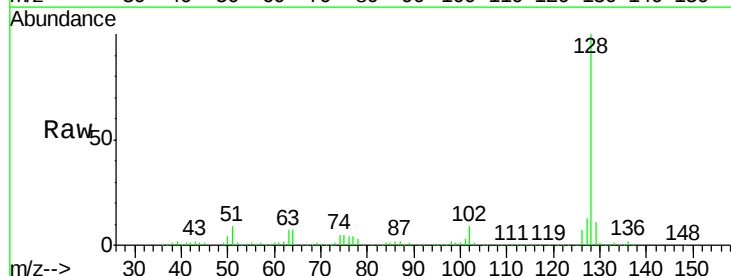
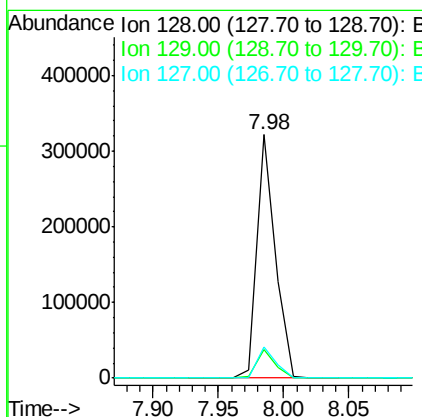
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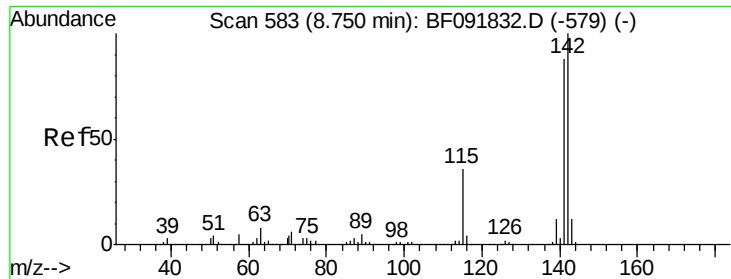
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#31
Naphthalene
Concen: 7.71 ng
RT: 7.98 min Scan# 516
Delta R.T. -0.03 min
Lab File: BF092047.D
Acq: 30 Dec 2016 15:24

Tgt Ion	128	Resp	319867
Ion Ratio	Lower	Upper	
128	100		
129	11.5	9.5	14.3
127	12.7	10.8	16.2





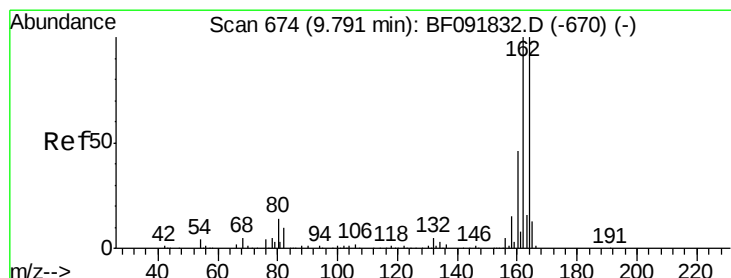
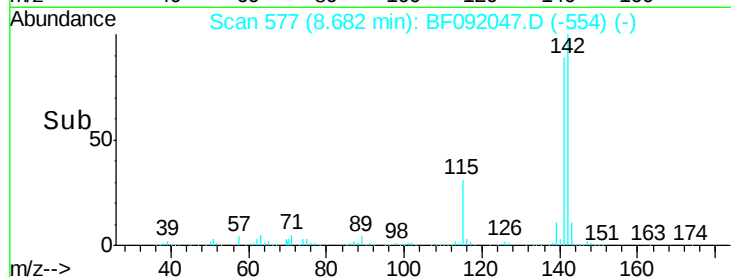
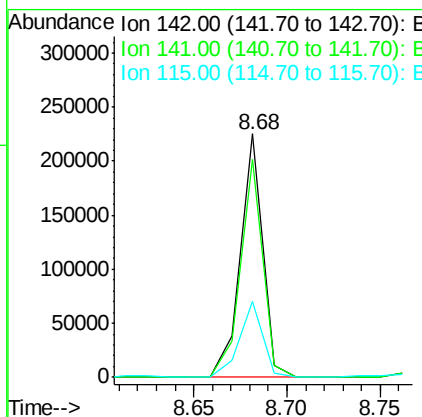
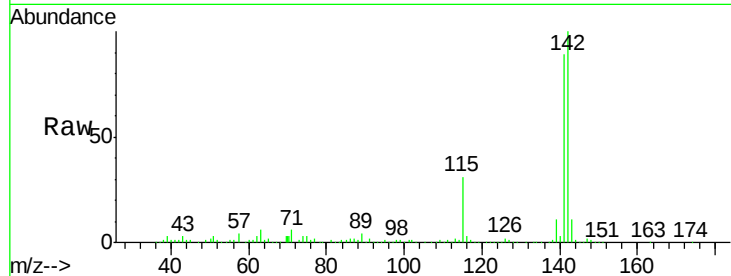
#37
2-Methylnaphthalene
Concen: 5.45 ng
RT: 8.68 min Scan# 577
Delta R.T. -0.03 min
Lab File: BF092047.D
Acq: 30 Dec 2016 15:24

Instrument :
BNA_F
ClientSampleId :
TP11-COMP8

Tot Ion	Ratio	Lower	Upper
142	100		
141	89.3	71.0	106.6
115	30.9	28.3	42.5

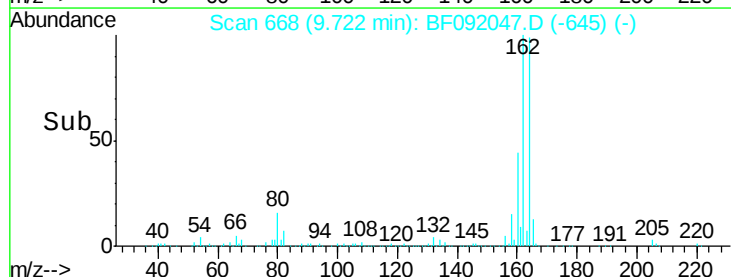
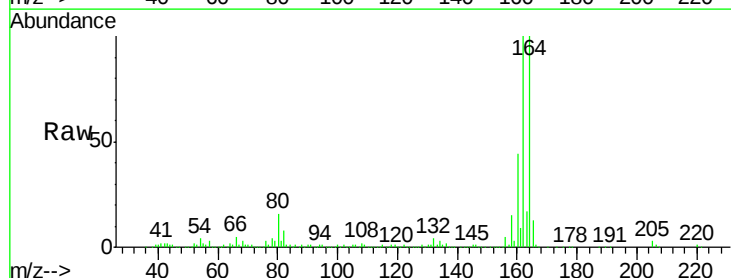
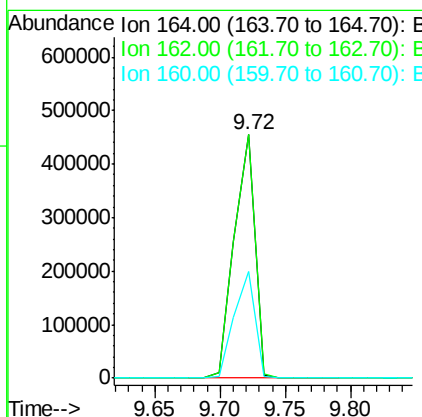
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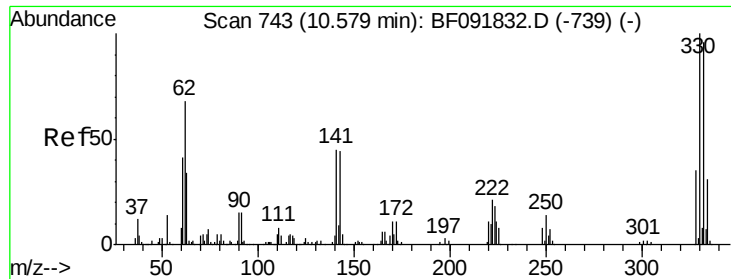
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.72 min Scan# 668
Delta R.T. -0.03 min
Lab File: BF092047.D
Acq: 30 Dec 2016 15:24

Tgt Ion	Ratio	Lower	Upper
164	100		
162	100.1	80.2	120.2
160	44.0	36.9	55.3





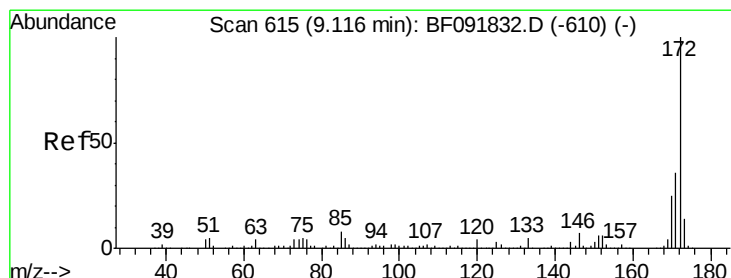
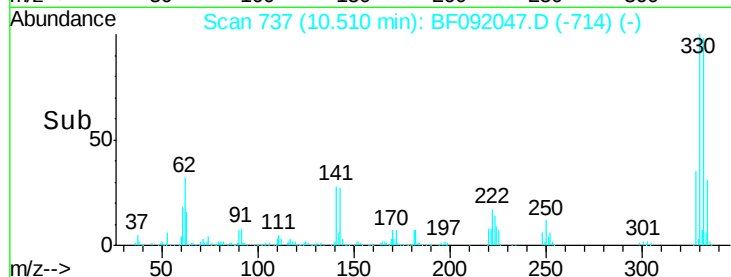
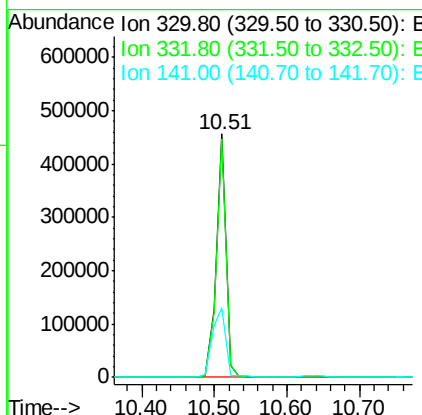
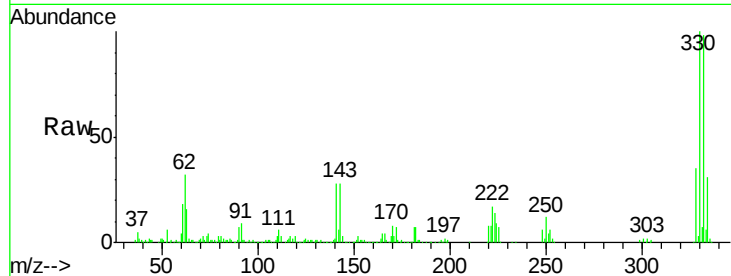
#41
 2,4,6-Tribromophenol
 Concen: 102.74 ng
 RT: 10.51 min Scan# 737
 Delta R.T. -0.03 min
 Lab File: BF092047.D
 Acq: 30 Dec 2016 15:24

Instrument :
 BNA_F
 ClientSampleId :
 TP11-COMP8

Tot Ion	Ratio	Lower	Upper
330	100		
332	97.8	77.4	116.2
141	37.9	34.1	51.1

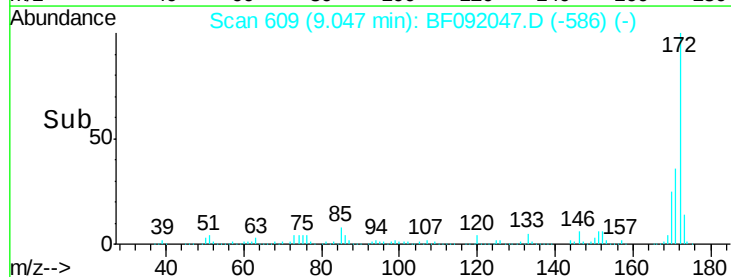
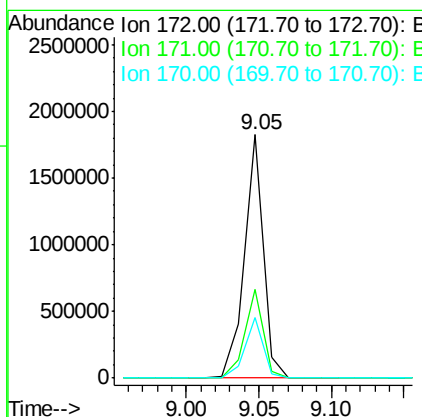
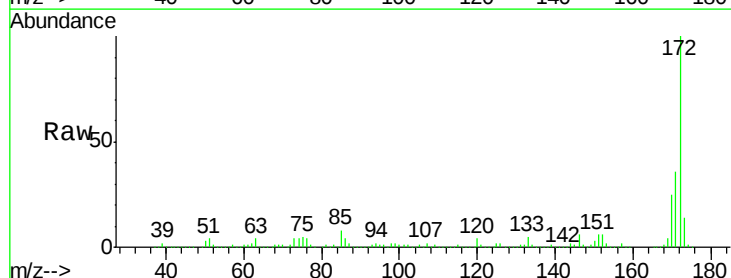
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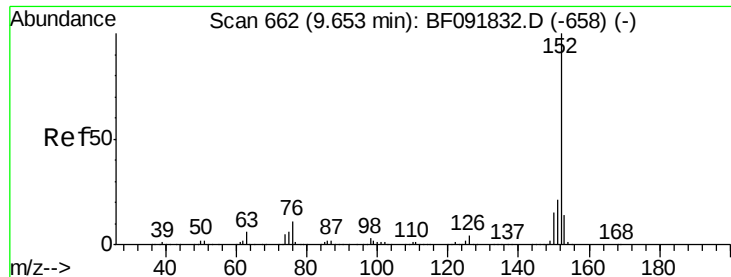
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#44
 2-Fluorobiphenyl
 Concen: 65.03 ng
 RT: 9.05 min Scan# 609
 Delta R.T. -0.03 min
 Lab File: BF092047.D
 Acq: 30 Dec 2016 15:24

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.4	29.4	44.0
170	24.7	20.2	30.4





#48

Acenaphthylene

Concen: 2.20 ng

RT: 9.57 min Scan# 655

Delta R.T. -0.03 min

Lab File: BF092047.D

Acq: 30 Dec 2016 15:24

Instrument :

BNA_F

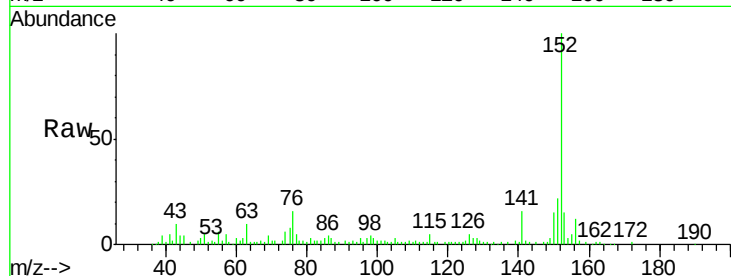
ClientSampleId :

TP11-COMP8

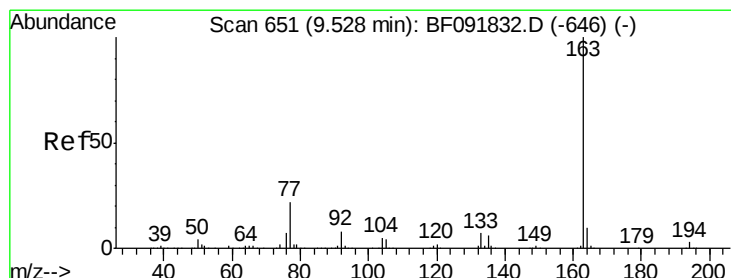
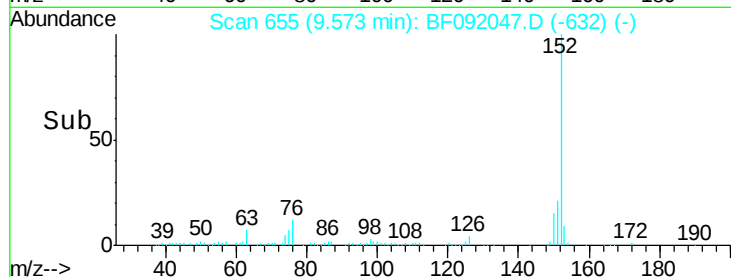
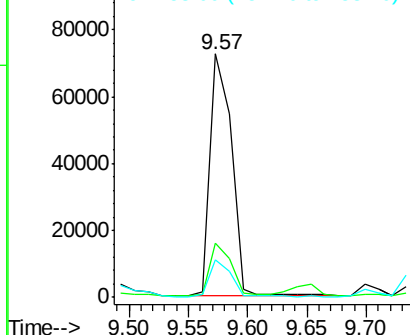
Tot Ion:	152	Resp:	91341
Ion Ratio	Lower	Upper	
152	100		
151	22.0	16.9	25.3
153	15.4	11.4	17.2

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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: 23.33 ng

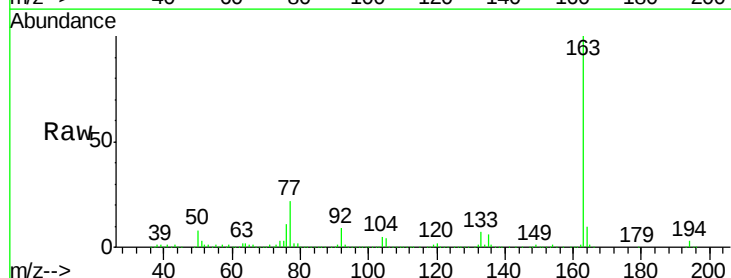
RT: 9.45 min Scan# 644

Delta R.T. -0.05 min

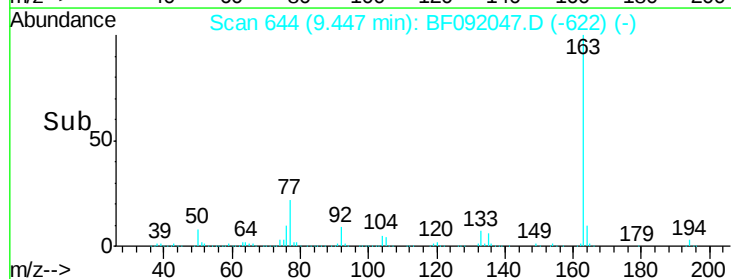
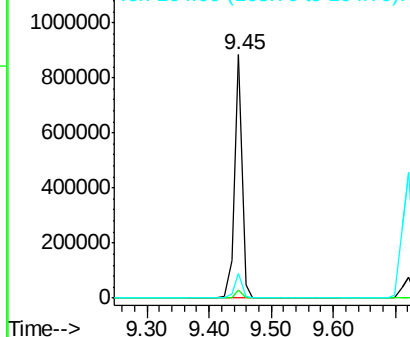
Lab File: BF092047.D

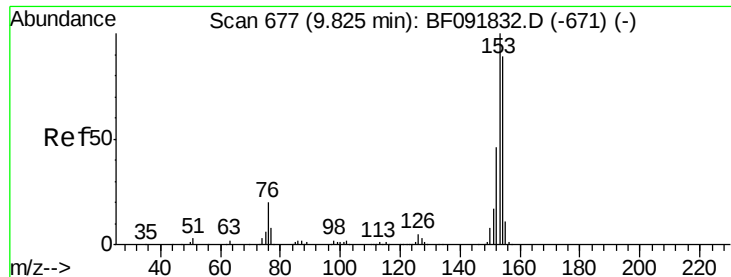
Acq: 30 Dec 2016 15:24

Tgt Ion:	163	Resp:	743182
Ion Ratio	Lower	Upper	
163	100		
194	3.3	3.0	4.4
164	10.4	8.0	12.0



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: 5.64 ng

RT: 9.74 min Scan# 670

Delta R.T. -0.05 min

Lab File: BF092047.D

Acq: 30 Dec 2016 15:24

Instrument :

BNA_F

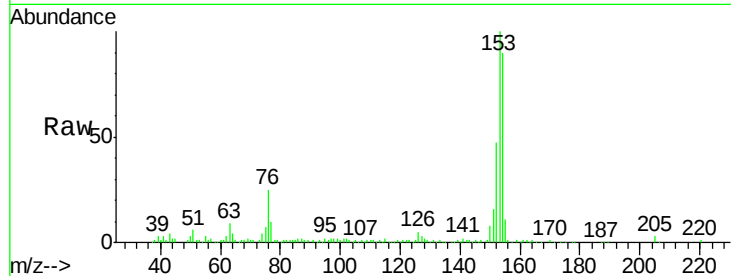
ClientSampleId :

TP11-COMP8

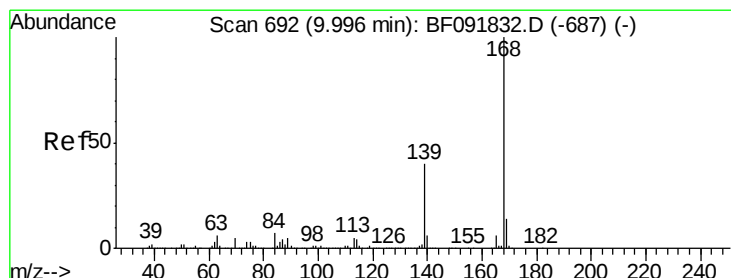
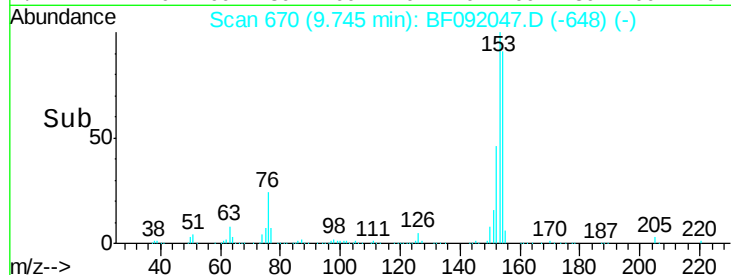
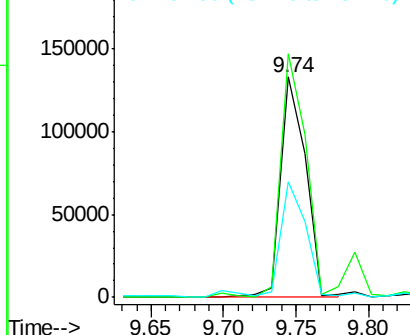
Tot Ion:154	Resp:	158797
Ion Ratio	Lower	Upper
154	100	
153	110.5	88.6 133.0
152	52.3	41.6 62.4

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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: 6.03 ng

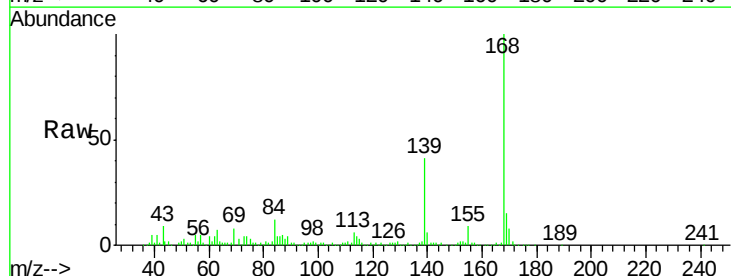
RT: 9.92 min Scan# 685

Delta R.T. -0.05 min

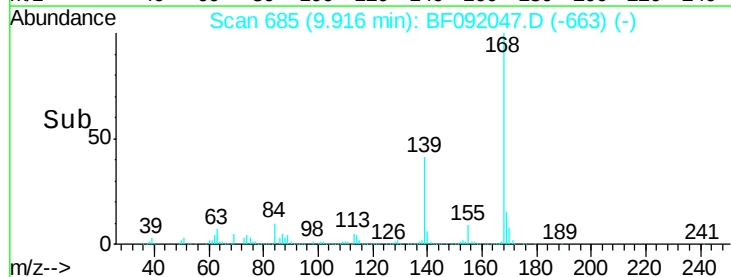
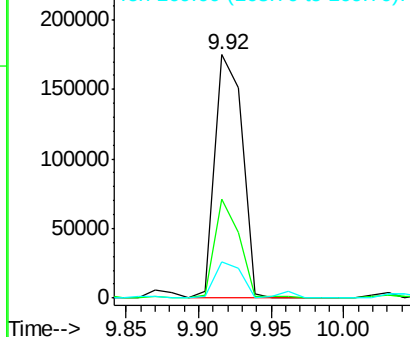
Lab File: BF092047.D

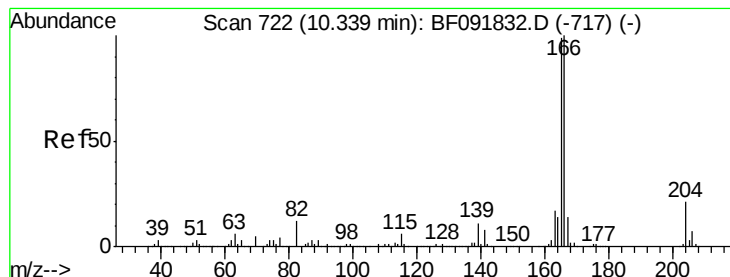
Acq: 30 Dec 2016 15:24

Tgt Ion:168	Resp:	229199
Ion Ratio	Lower	Upper
168	100	
139	40.6	32.6 49.0
169	14.9	11.3 16.9



Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E





#57

Fluorene

Concen: 9.78 ng

RT: 10.26 min Scan# 715

Delta R.T. -0.03 min

Lab File: BF092047.D

Acq: 30 Dec 2016 15:24

Instrument :

BNA_F

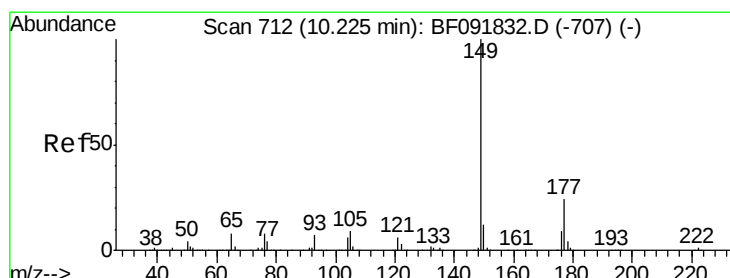
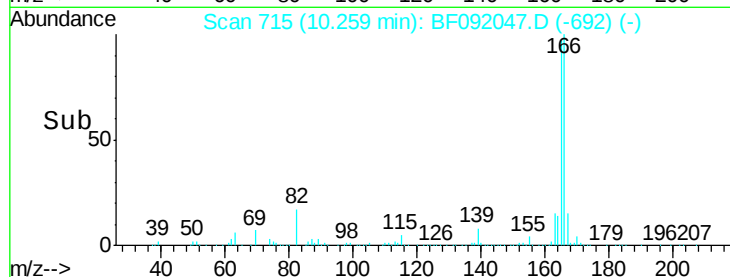
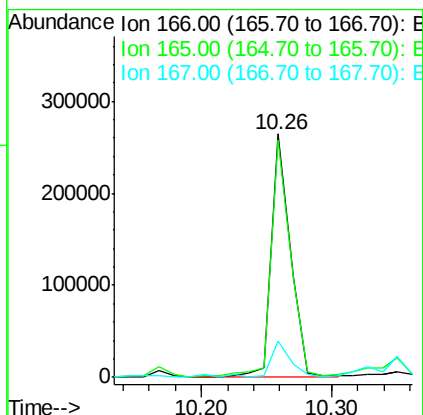
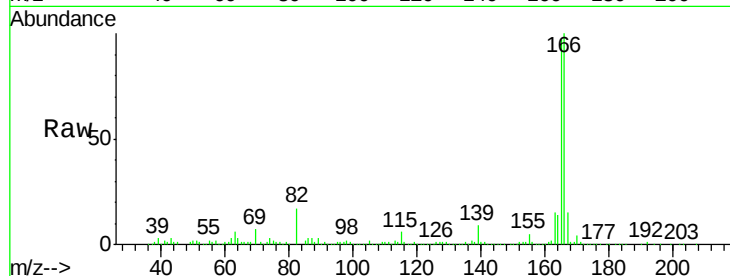
ClientSampleId :

TP11-COMP8

Tot Ion:	166	Resp:	270536
Ion Ratio		Lower	Upper
166	100		
165	97.3	77.8	116.8
167	14.8	10.8	16.2

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#59

Diethylphthalate

Concen: 2.88 ng

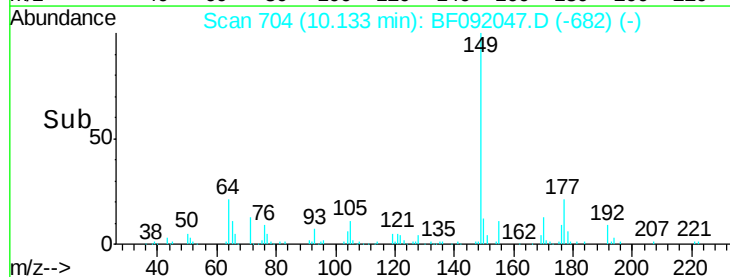
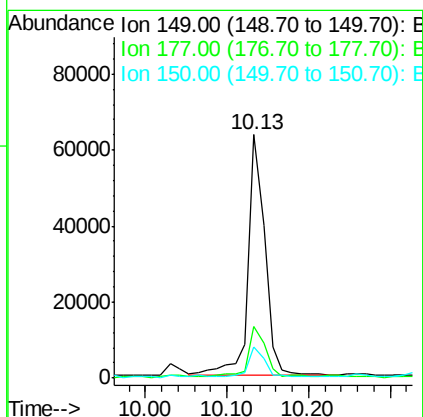
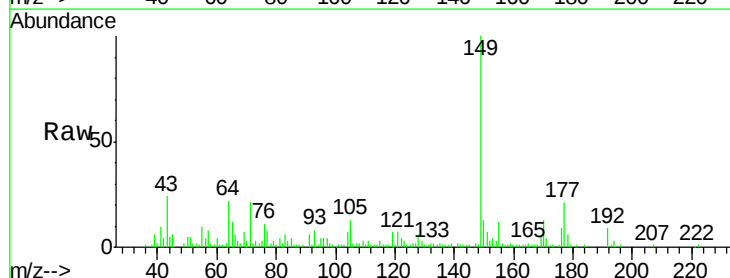
RT: 10.13 min Scan# 704

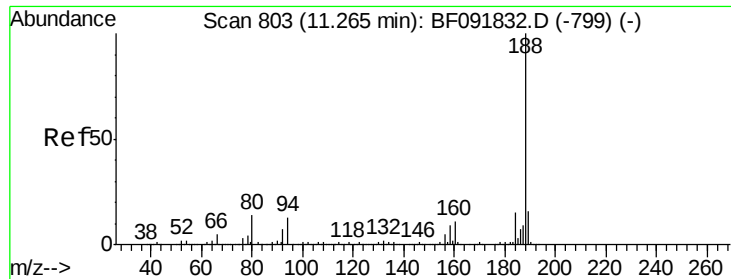
Delta R.T. -0.05 min

Lab File: BF092047.D

Acq: 30 Dec 2016 15:24

Tgt Ion:	149	Resp:	89084
Ion Ratio		Lower	Upper
149	100		
177	21.2	16.6	25.0
150	12.9	10.4	15.6





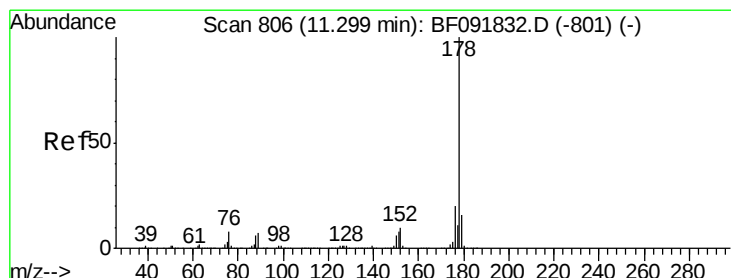
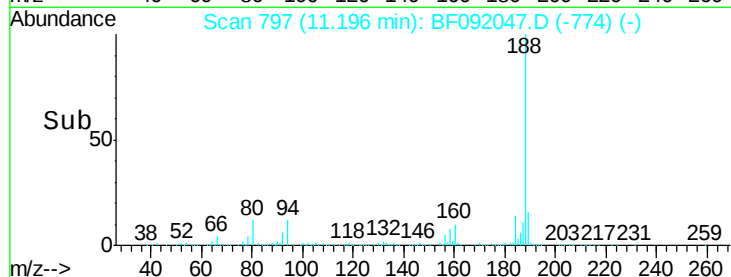
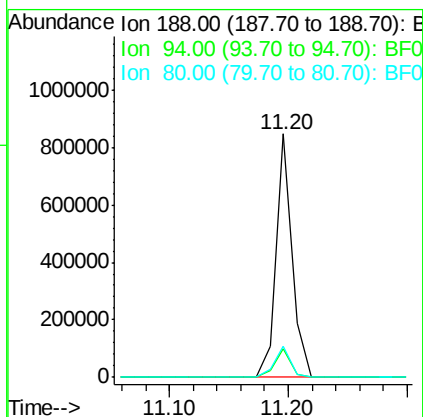
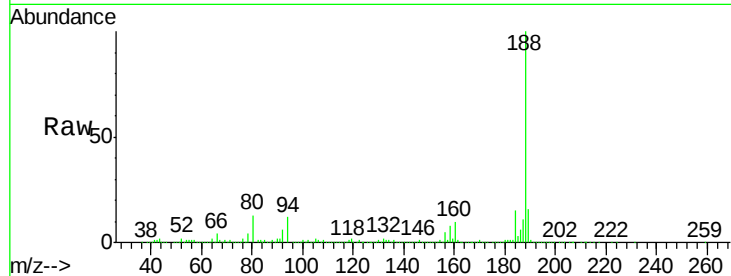
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.20 min Scan# 797
Delta R.T. -0.03 min
Lab File: BF092047.D
Acq: 30 Dec 2016 15:24

Instrument :
BNA_F
ClientSampleId :
TP11-COMP8

Tot Ion	Ratio	Resp	Lower	Upper
188	100	790199		
94	11.6		10.0	15.0
80	12.6		11.2	16.8

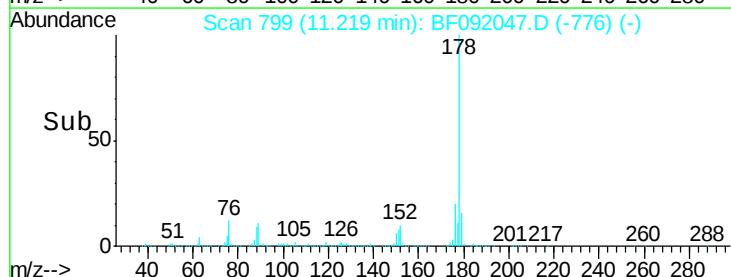
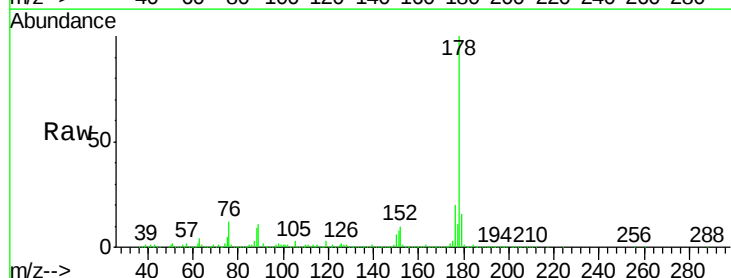
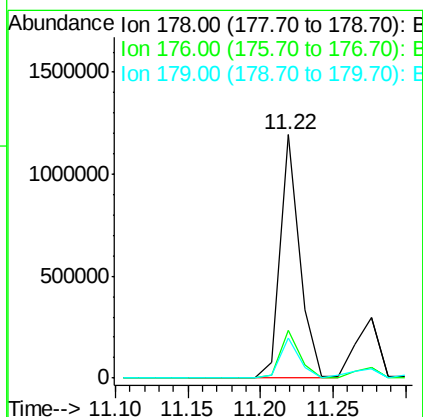
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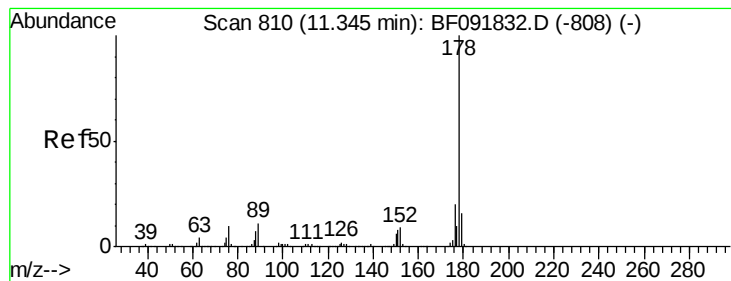
mohammad
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#70
Phenanthrene
Concen: 25.96 ng
RT: 11.22 min Scan# 799
Delta R.T. -0.03 min
Lab File: BF092047.D
Acq: 30 Dec 2016 15:24

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	1112234		
176	19.7		16.6	25.0
179	16.2		12.8	19.2





#71

Anthracene

Concen: 5.84 ng

RT: 11.28 min Scan# 804

Delta R.T. -0.03 min

Lab File: BF092047.D

Acq: 30 Dec 2016 15:24

Instrument :

BNA_F

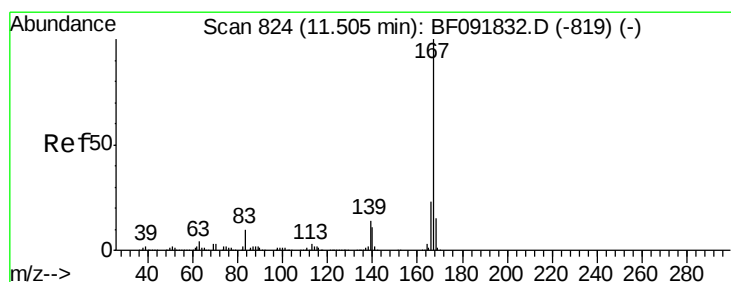
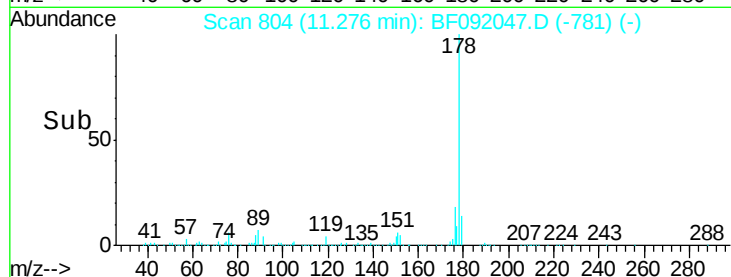
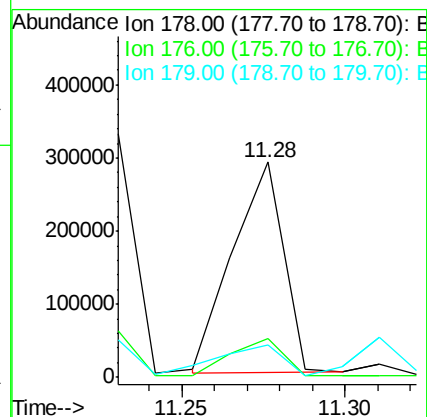
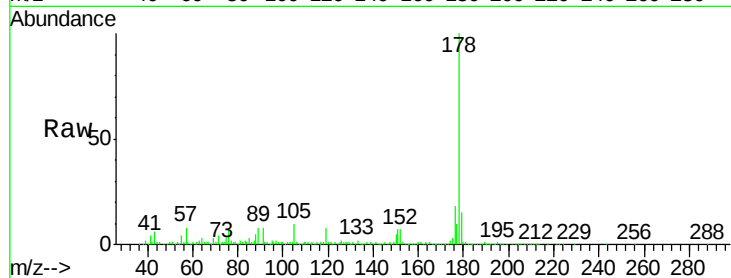
ClientSampleId :

TP11-COMP8

Tot Ion:	178	Resp:	308941
Ion Ratio	Lower	Upper	
178	100		
176	18.0	15.9	23.9
179	14.8	13.2	19.8

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#72

Carbazole

Concen: 2.79 ng

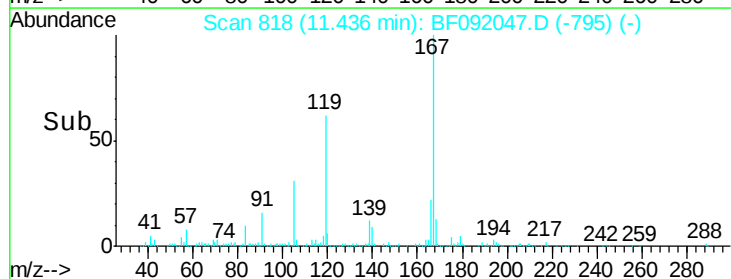
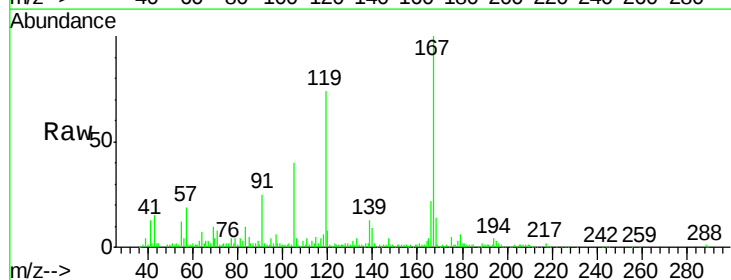
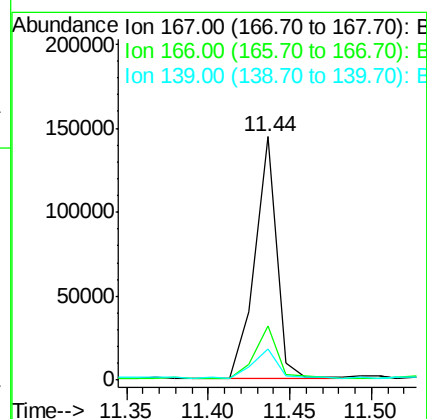
RT: 11.44 min Scan# 818

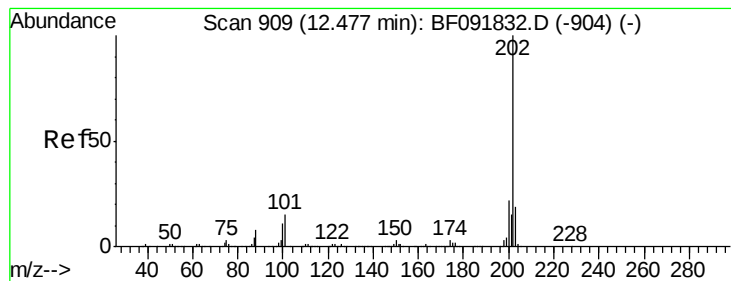
Delta R.T. -0.03 min

Lab File: BF092047.D

Acq: 30 Dec 2016 15:24

Tgt Ion:	167	Resp:	135021
Ion Ratio	Lower	Upper	
167	100		
166	22.1	18.2	27.2
139	13.0	11.4	17.2





#74

Fluoranthene

Concen: 31.67 ng

RT: 12.41 min Scan# 903

Delta R.T. -0.03 min

Lab File: BF092047.D

Acq: 30 Dec 2016 15:24

Instrument :

BNA_F

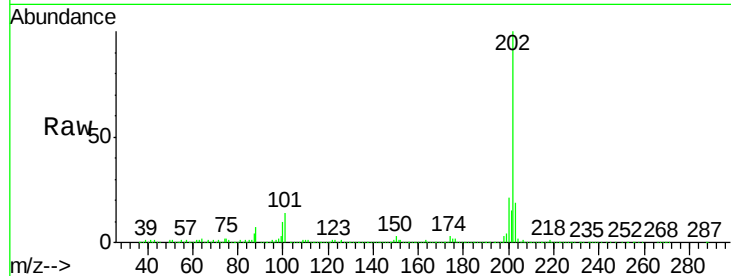
ClientSampleId :

TP11-COMP8

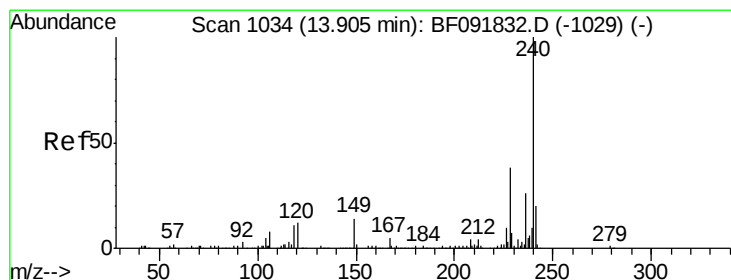
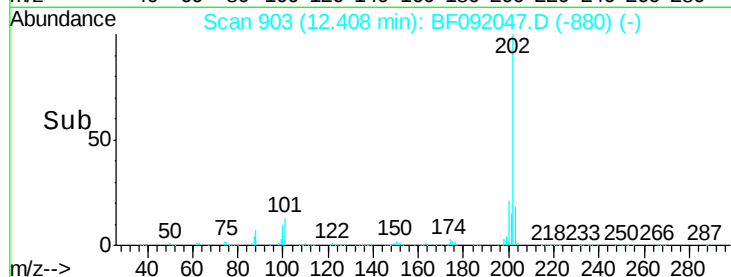
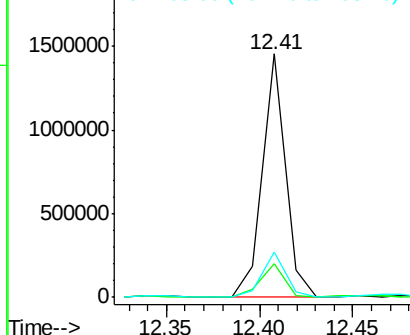
Tot Ion:202	Resp: 1233000
Ion Ratio	Lower Upper
202 100	
101 13.8	0.0 34.6
203 18.5	0.0 38.7

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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: 13.84 min Scan# 1028

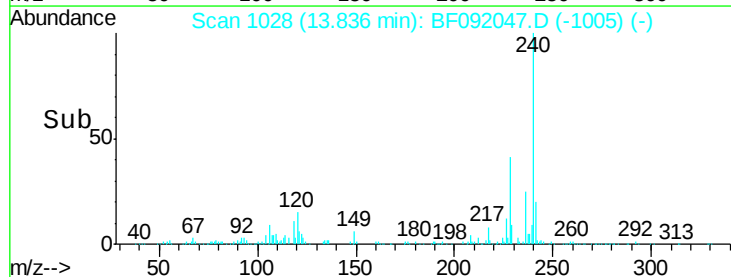
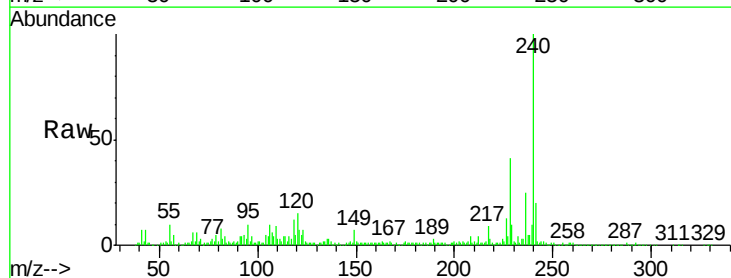
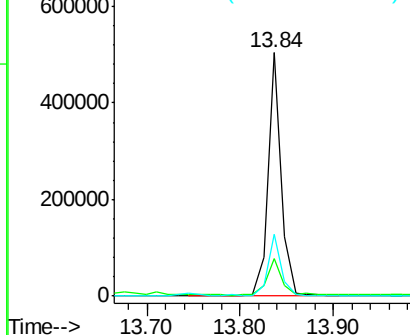
Delta R.T. -0.03 min

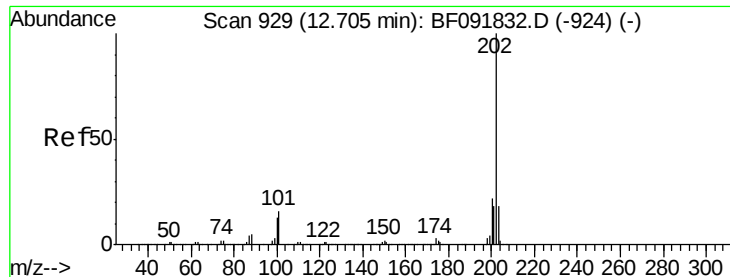
Lab File: BF092047.D

Acq: 30 Dec 2016 15:24

Tgt Ion:240	Resp: 495740
Ion Ratio	Lower Upper
240 100	
120 15.4	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: 33.25 ng

RT: 12.64 min Scan# 923

Delta R.T. -0.03 min

Lab File: BF092047.D

Acq: 30 Dec 2016 15:24

Instrument :

BNA_F

ClientSampleId :

TP11-COMP8

Tot Ion:202 Resp: 1209292

Ion Ratio Lower Upper

202 100

200 21.4 17.7 26.5

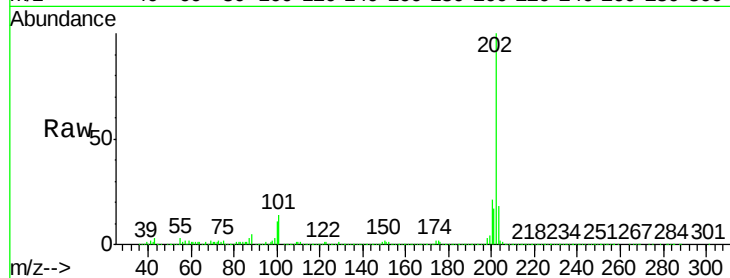
203 18.4 14.7 22.1

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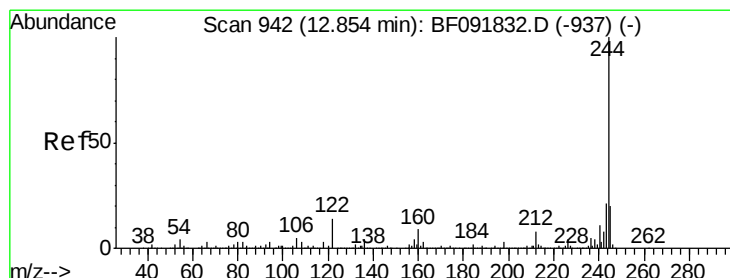
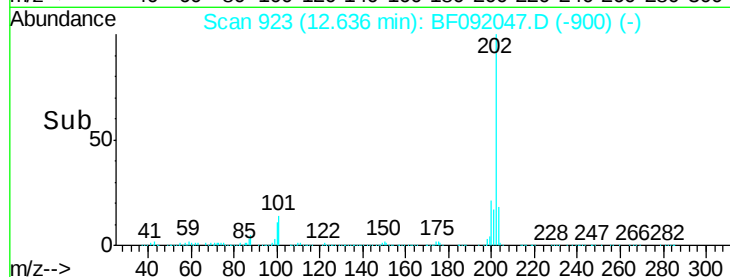
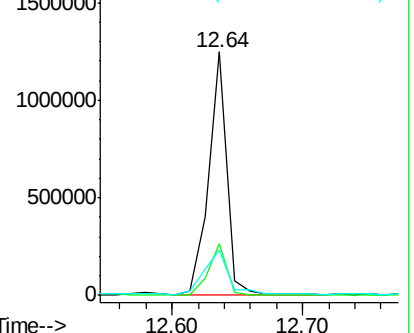
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Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 64.51 ng

RT: 12.78 min Scan# 936

Delta R.T. -0.03 min

Lab File: BF092047.D

Acq: 30 Dec 2016 15:24

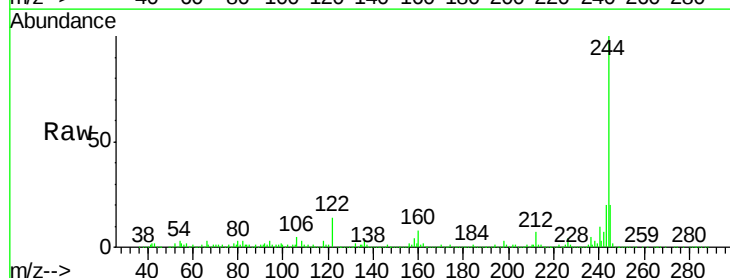
Tgt Ion:244 Resp: 1318717

Ion Ratio Lower Upper

244 100

212 7.1 6.2 9.2

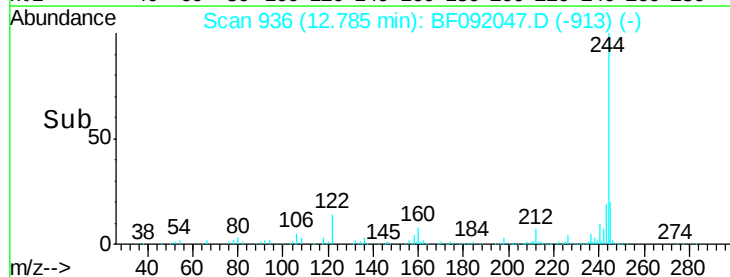
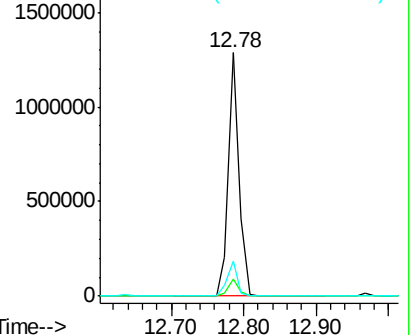
122 14.2 11.4 17.2

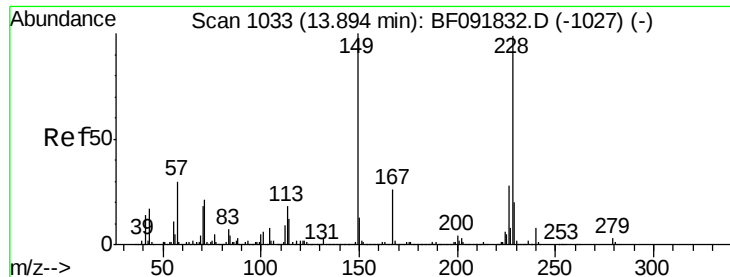


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





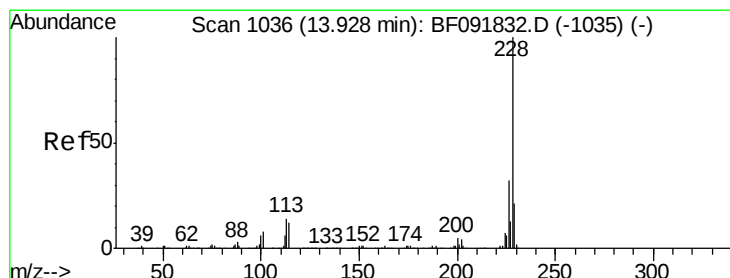
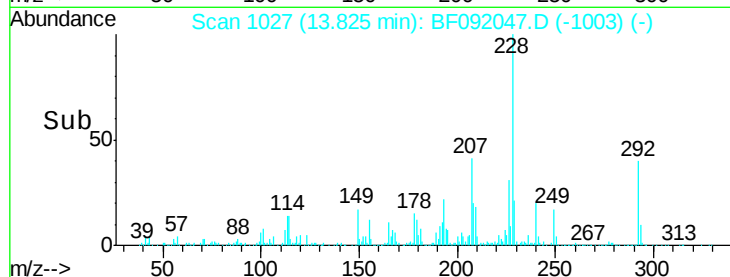
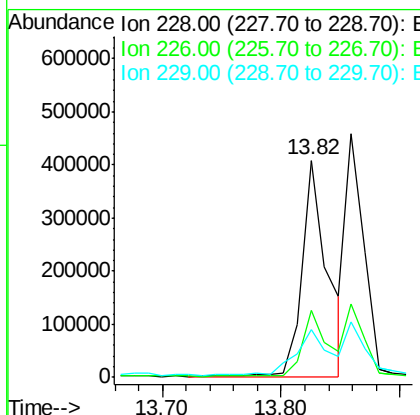
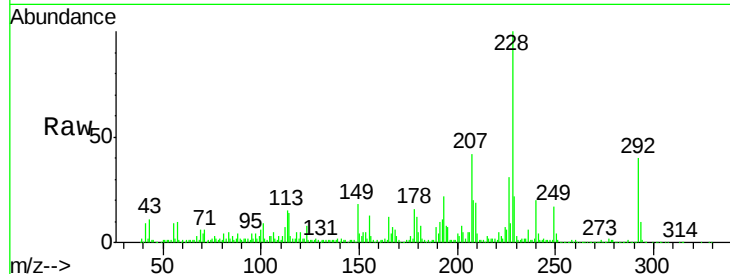
#80
Benzo(a)anthracene
Concen: 21.51 ng
RT: 13.82 min Scan# 1027
Delta R.T. -0.02 min
Lab File: BF092047.D
Acq: 30 Dec 2016 15:24

Instrument :
BNA_F
ClientSampleId :
TP11-COMP8

Tot Ion	Ratio	Lower	Upper
228	100		
226	31.1	22.4	33.6
229	21.7	16.2	24.4

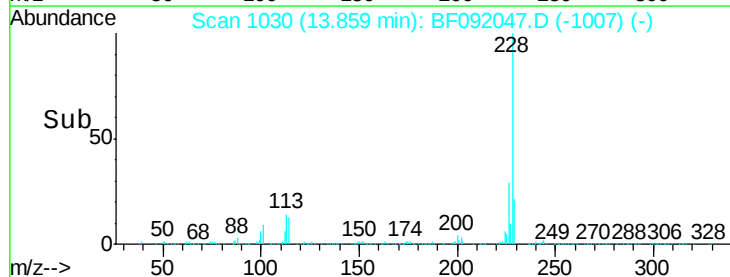
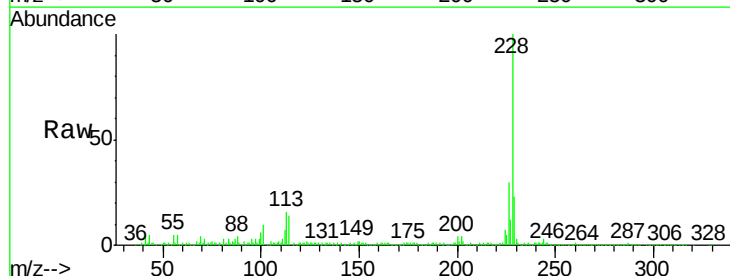
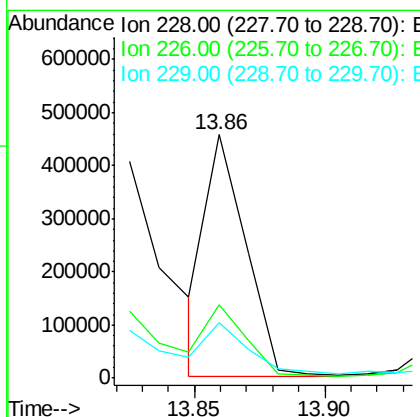
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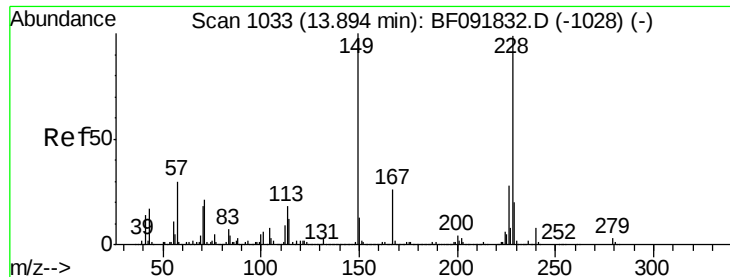
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#82
Chrysene
Concen: 17.30 ng
RT: 13.86 min Scan# 1030
Delta R.T. -0.03 min
Lab File: BF092047.D
Acq: 30 Dec 2016 15:24

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.2	25.4	38.0
229	22.8	16.2	24.2





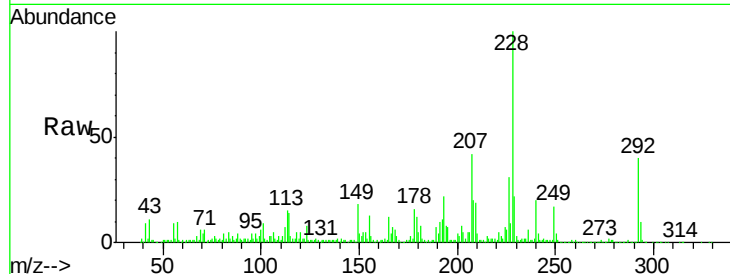
#83
 Bis(2-ethylhexyl)phthalate
 Concen: 6.19 ng
 RT: 13.82 min Scan# 1027
 Delta R.T. -0.03 min
 Lab File: BF092047.D
 Acq: 30 Dec 2016 15:24

Instrument :
 BNA_F
 ClientSampleId :
 TP11-COMP8

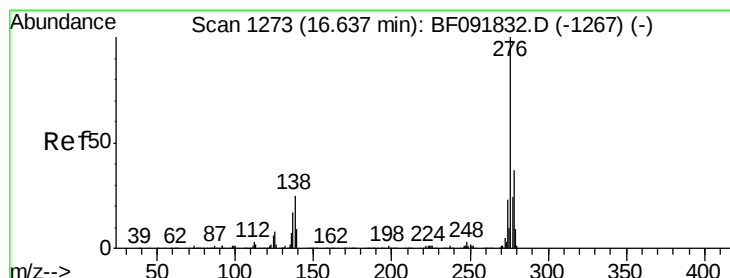
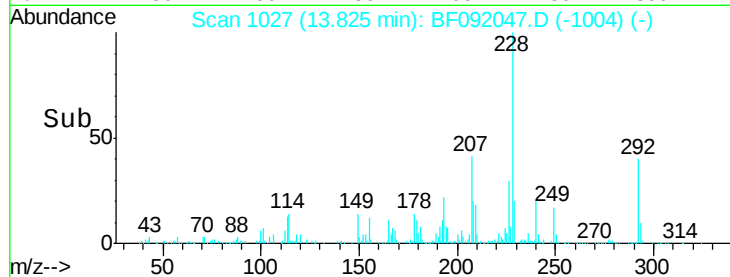
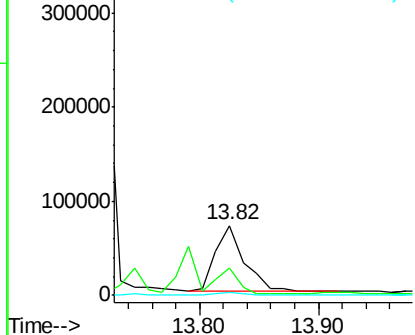
Tot Ion	Ratio	Resp	Lower	Upper
149	100			
167	39.4	20.2	30.4	
279	3.6	1.8	2.8	

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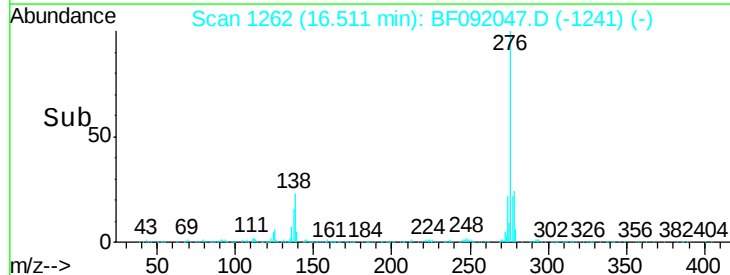
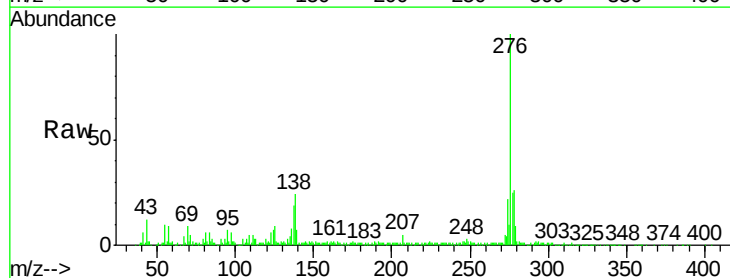
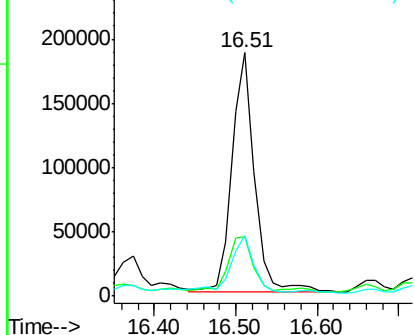
Abundance Ion 149.00 (148.70 to 149.70): E
 Ion 167.00 (166.70 to 167.70): E
 Ion 279.00 (278.70 to 279.70): E

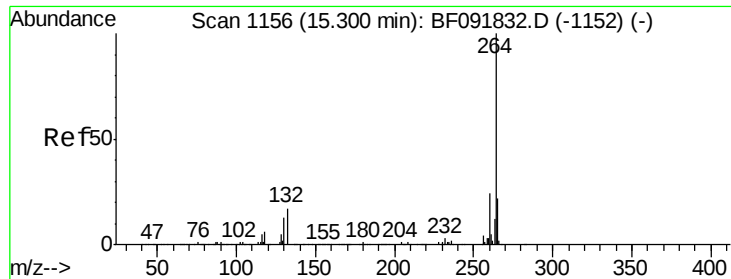


#85
 Indeno(1,2,3-cd)pyrene
 Concen: 14.80 ng
 RT: 16.51 min Scan# 1262
 Delta R.T. -0.06 min
 Lab File: BF092047.D
 Acq: 30 Dec 2016 15:24

Tgt Ion	Ratio	Resp	Lower	Upper
276	100			
138	26.2	21.8	32.6	
277	22.9	20.2	30.4	

Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E





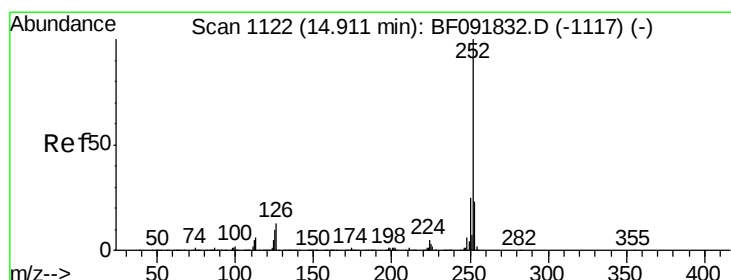
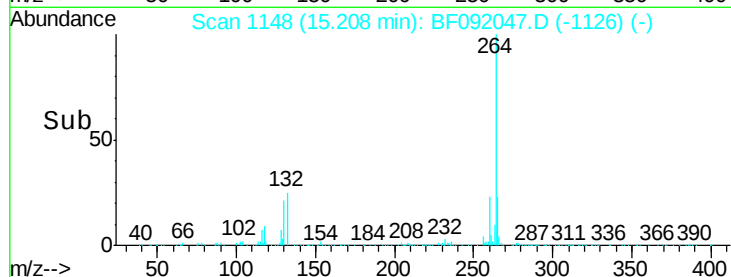
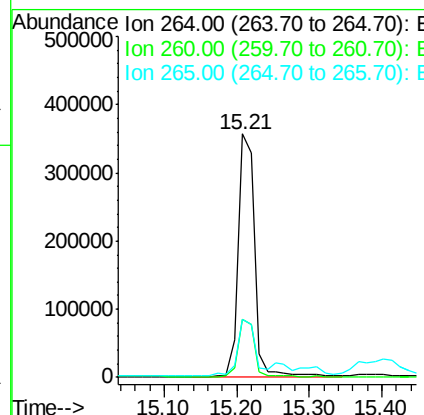
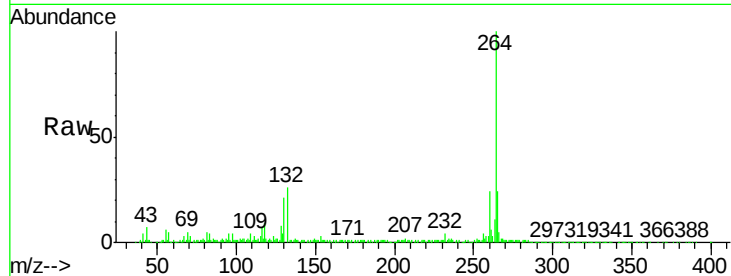
#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.21 min Scan# 1148
Delta R.T. -0.05 min
Lab File: BF092047.D
Acq: 30 Dec 2016 15:24

Instrument :
BNA_F
ClientSampleId :
TP11-COMP8

Tot Ion	Ratio	Resp	Lower	Upper
264	100			
260	23.7	19.2	28.8	
265	23.9	17.4	26.0	

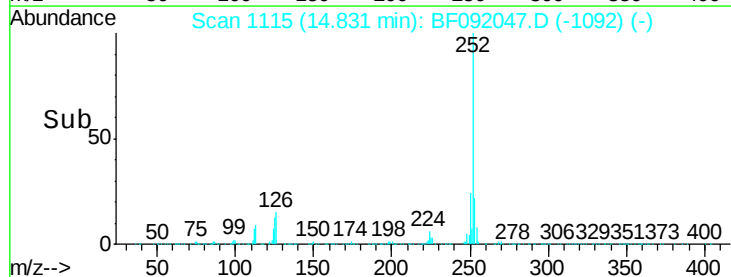
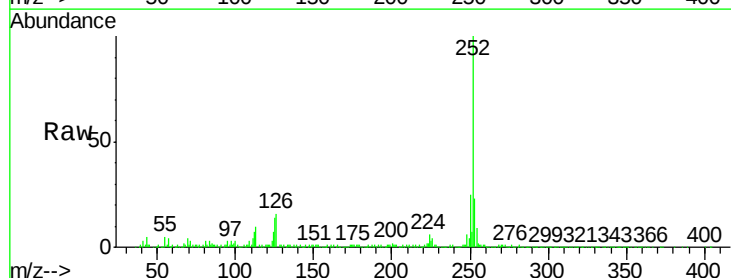
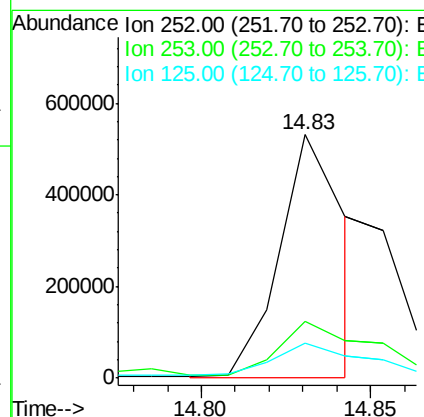
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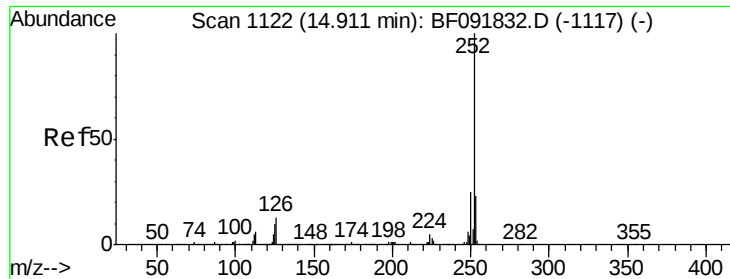
mohammad
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#87
Benzo(b)fluoranthene
Concen: 20.61 ng m
RT: 14.83 min Scan# 1115
Delta R.T. -0.03 min
Lab File: BF092047.D
Acq: 30 Dec 2016 15:24

Tgt Ion	Ratio	Resp	Lower	Upper
252	100			
253	23.1	18.2	27.4	
125	14.5	9.8	14.6	





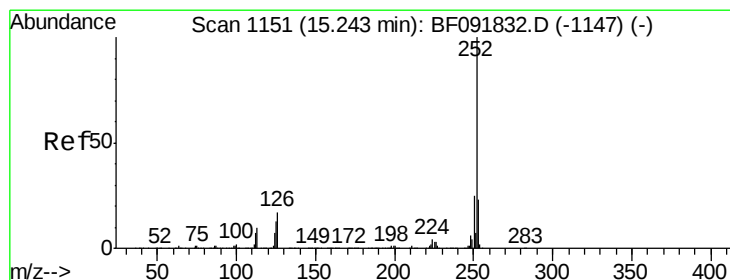
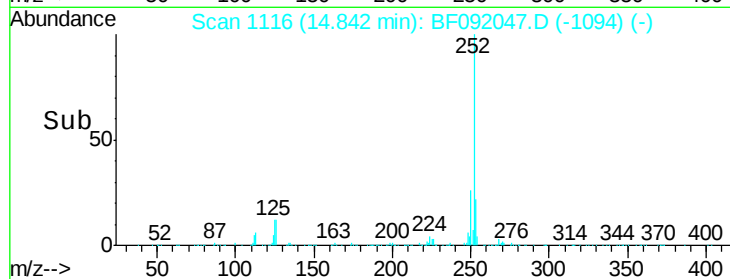
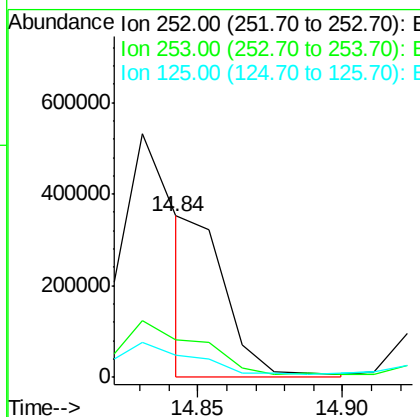
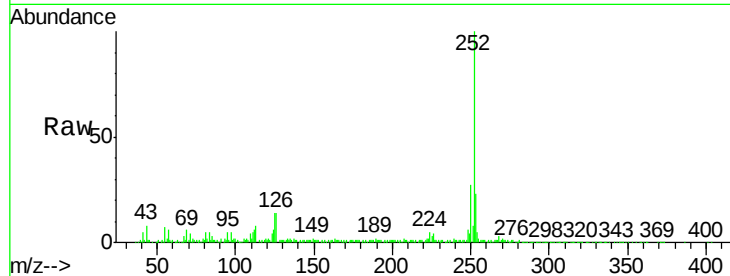
#88
Benzo(k)fluoranthene
Concen: 9.80 ng m
RT: 14.84 min Scan# 1116
Delta R.T. -0.05 min
Lab File: BF092047.D
Acq: 30 Dec 2016 15:24

Instrument :
BNA_F
ClientSampleId :
TP11-COMP8

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.0	18.5	27.7
125	14.0	8.9	13.3

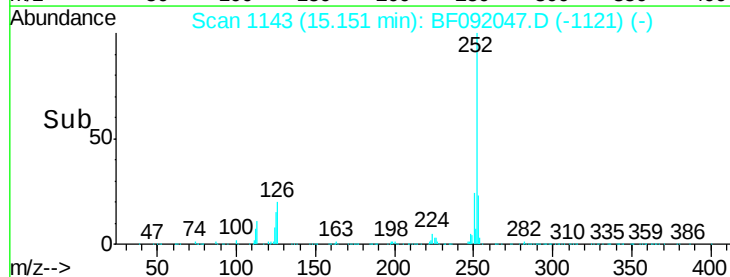
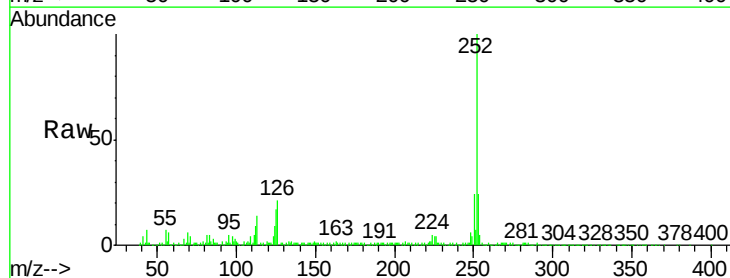
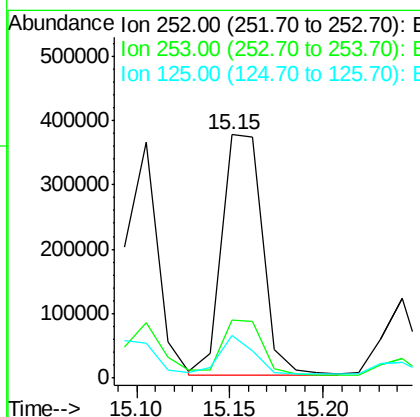
Manual Integrations
APPROVED

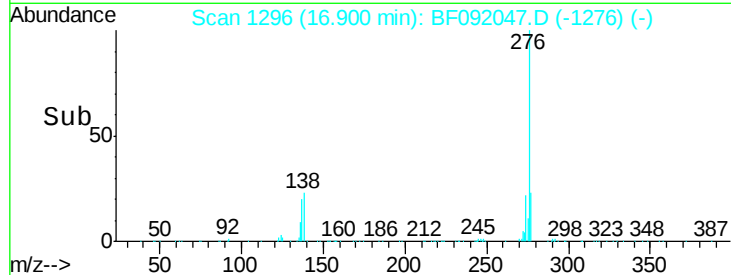
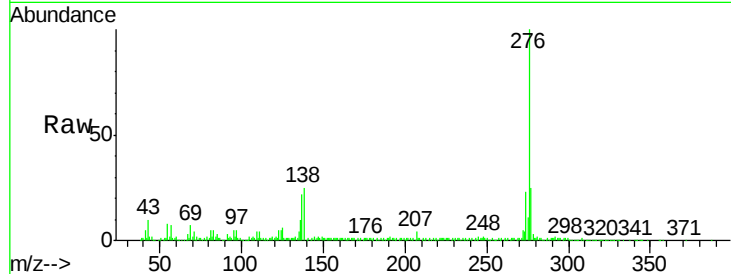
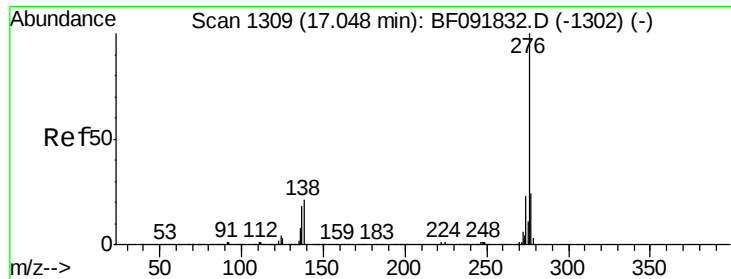
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#89
Benzo(a)pyrene
Concen: 18.65 ng
RT: 15.15 min Scan# 1143
Delta R.T. -0.05 min
Lab File: BF092047.D
Acq: 30 Dec 2016 15:24

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.9	18.2	27.2
125	17.3	10.0	15.0





#91
 Benzo(a,h,i)perylene
 Concen: 15.49 ng
 RT: 16.90 min Scan# 1296
 Delta R.T. -0.07 min
 Lab File: BF092047.D
 Acq: 30 Dec 2016 15:24

Instrument :
 BNA_F
 ClientSampleId :
 TP11-COMP8

Tot Ion	Ratio	Resp Lower	Upper
276	100		
277	24.6	19.2	28.8
138	25.3	16.0	24.0

Manual Integrations
 APPROVED

mohammad
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