

Data Path : Z:\HPCHEM1\BNA F\DATA\BF110915\
 Data File : BF082867.D
 Acq On : 10 Nov 2015 11:39
 Operator : UM/IZ
 Sample : G4327-01DL 2X
 Misc :
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 1DL

Manual Integrations
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 11/10/2015 1:02:56 PM

Quant Time: Nov 10 12:14:34 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF110715.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Nov 07 02:32:49 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.83	152	277371	20.00	ng	-0.02
21) Naphthalene-d8	8.12	136	990091	20.00	ng	-0.02
38) Acenaphthene-d10	9.87	164	446612	20.00	ng	-0.02
63) Phenanthrene-d10	11.36	188	699370	20.00	ng	-0.02
75) Chrysene-d12	14.00	240	572568	20.00	ng	-0.02
86) Perylene-d12	15.44	264	539015	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.44	112	919363	51.57	ng	-0.01
7) Phenol-d6	6.48	99	1369114	57.77	ng	0.00
23) Nitrobenzene-d5	7.39	82	775585	34.09	ng	-0.02
41) 2,4,6-Tribromophenol	10.66	330	201299	39.31	ng	-0.02
44) 2-Fluorobiphenyl	9.20	172	1049415	33.68	ng	-0.02
78) Terphenyl-d14	12.95	244	737030	30.53	ng	-0.02
Target Compounds						Qvalue
49) Dimethylphthalate	9.58	163	238231	6.51	ng	99
51) Acenaphthene	9.90	154	78866	2.66	ng	99
57) Fluorene	10.42	166	85949	2.65	ng	97
70) Phenanthrene	11.38	178	1584200	39.01	ng	99
71) Anthracene	11.42	178	347497	8.12	ng	98
72) Carbazole	11.58	167	86276	2.30	ng	# 96
74) Fluoranthene	12.57	202	1512557	34.71	ng	99
77) Pyrene	12.80	202	1416562	36.03	ng	99
80) Benzo(a)anthracene	13.99	228	734953	20.53	ng	99
82) Chrysene	14.02	228	614527m	18.74	ng	
85) Indeno(1,2,3-cd)pyrene	16.81	276	194251	6.88	ng	97
87) Benzo(b)fluoranthene	15.03	252	550020m	15.90	ng	
88) Benzo(k)fluoranthene	15.04	252	240757m	7.84	ng	
89) Benzo(a)pyrene	15.37	252	400550m	13.36	ng	
90) Dibenzo(a,h)anthracene	16.82	278	51605	2.03	ng	# 90
91) Benzo(g,h,i)perylene	17.22	276	169502	6.97	ng	# 93

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

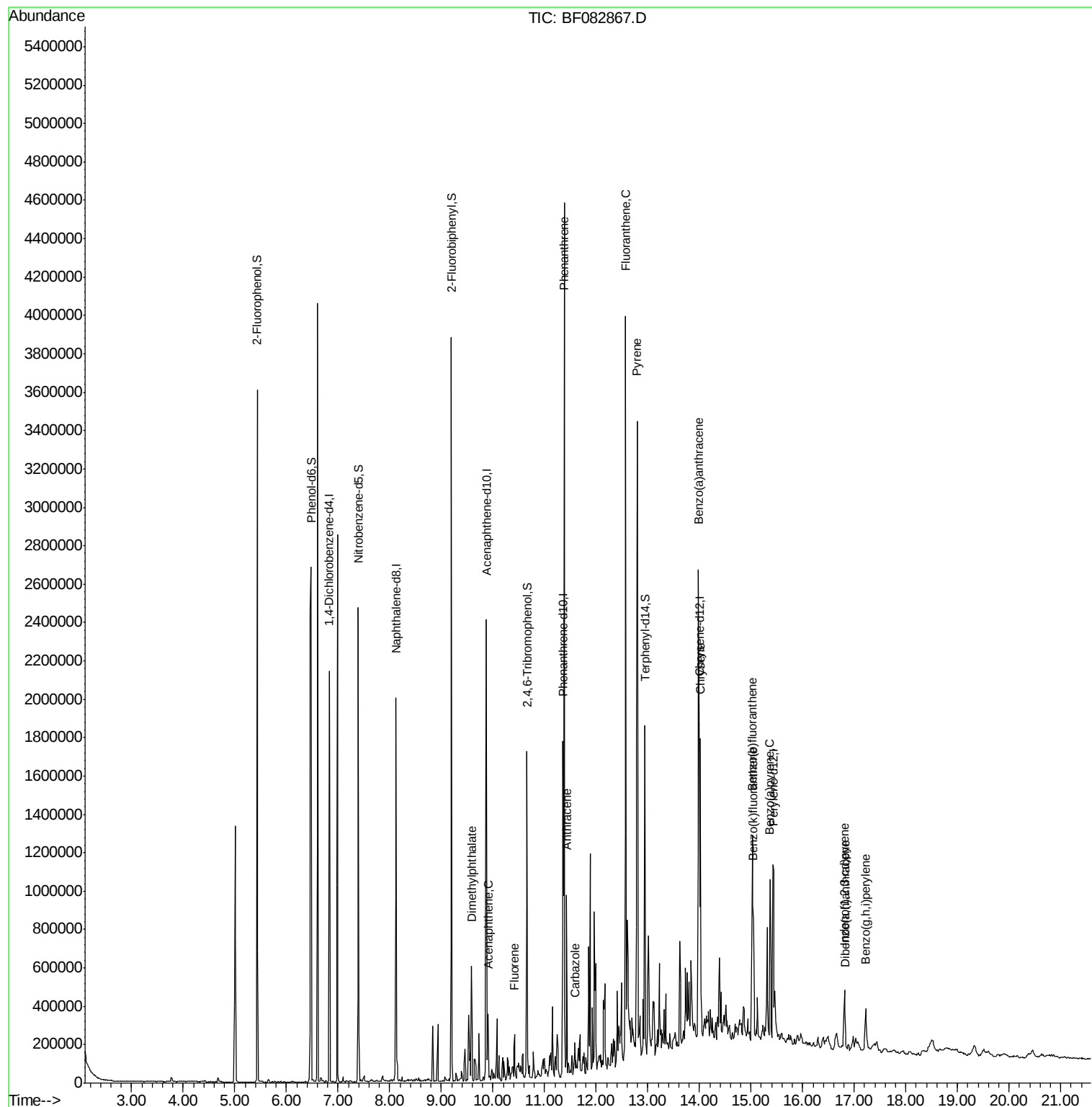
Data Path : Z:\HPCHEM1\BNA F\DATA\BF110915\
Data File : BF082867.D
Acq On : 10 Nov 2015 11:39
Operator : UM/IZ
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Misc :
ALS Vial : 42 Sample Multiplier: 1

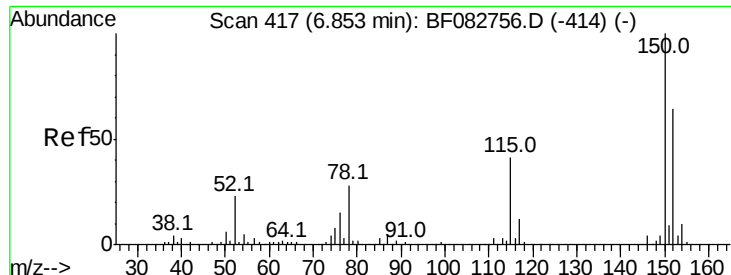
Instrument :
BNA_F
ClientSampleId :
1DL

Quant Time: Nov 10 12:14:34 2015
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF110715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Nov 07 02:32:49 2015
Response via : Initial Calibration

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.83 min Scan# 415

Delta R.T. -0.02 min

Lab File: BF082867.D

Acq: 10 Nov 2015 11:39

Instrument :

BNA_F

ClientSampleId :

1DL

Tot Ion:152 Resp: 277371

Ion Ratio Lower Upper

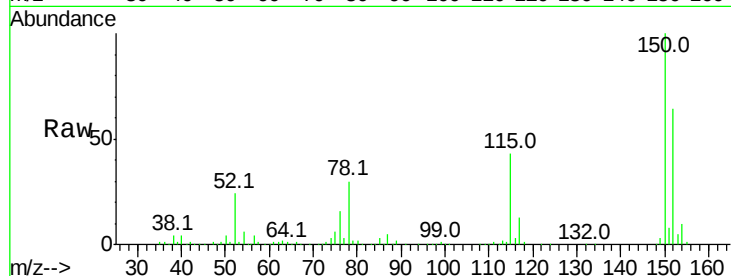
152 100

150 155.2 127.0 190.4

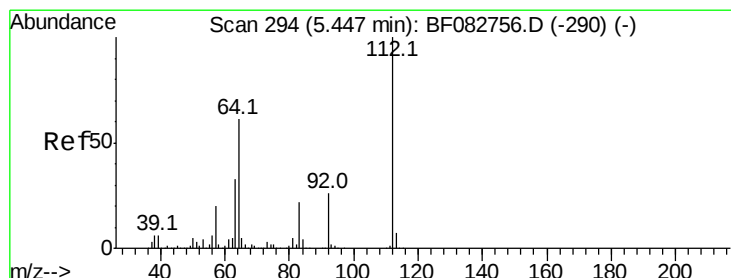
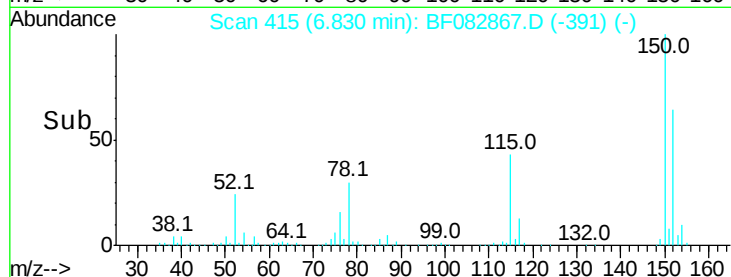
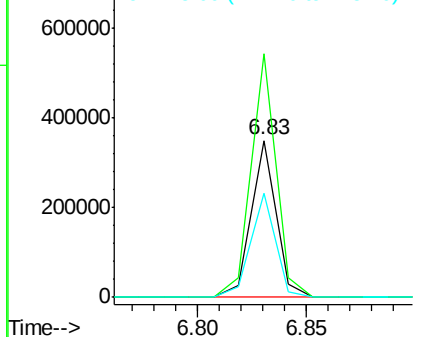
115 66.4 47.0 70.6

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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: 51.57 ng

RT: 5.44 min Scan# 293

Delta R.T. -0.01 min

Lab File: BF082867.D

Acq: 10 Nov 2015 11:39

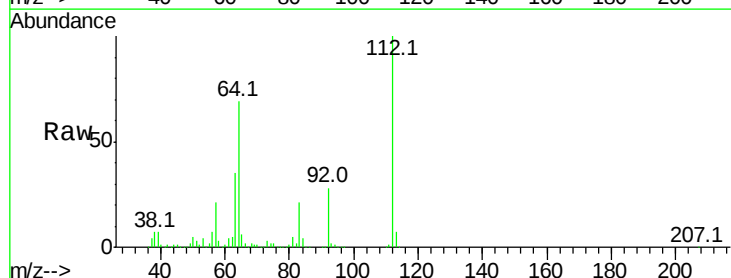
Tgt Ion:112 Resp: 919363

Ion Ratio Lower Upper

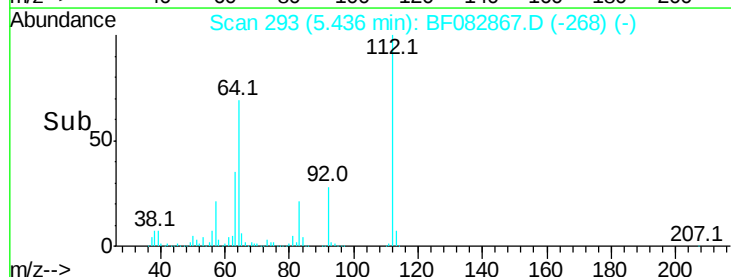
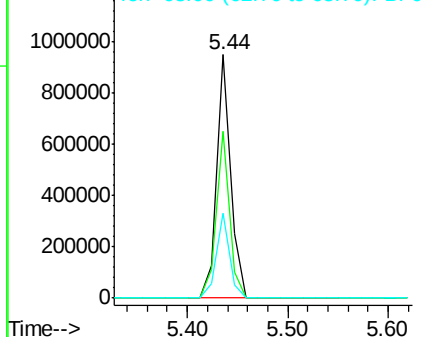
112 100

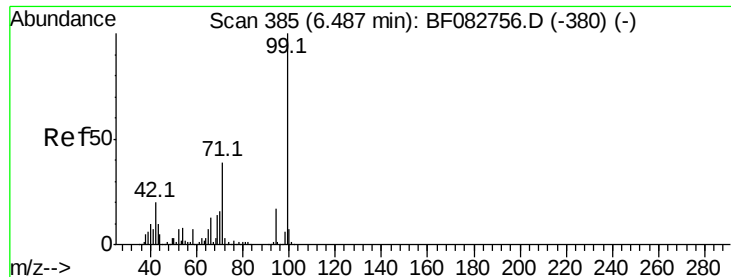
64 68.8 48.9 73.3

63 35.1 28.1 42.1



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: 57.77 ng

RT: 6.48 min Scan# 384

Delta R.T. 0.00 min

Lab File: BF082867.D

Acq: 10 Nov 2015 11:39

Instrument :

BNA_F

ClientSampleId :

1DL

Tot Ion: 99 Resp: 1369114

Ion Ratio Lower Upper

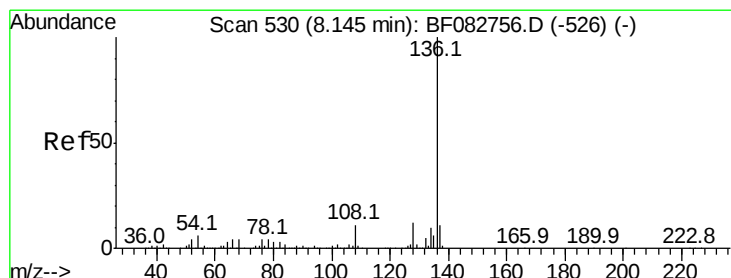
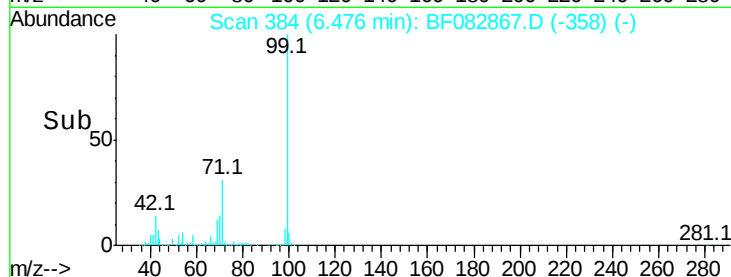
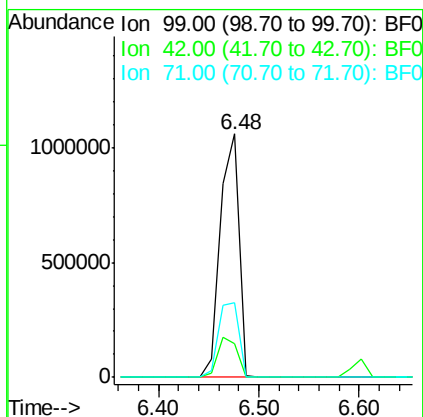
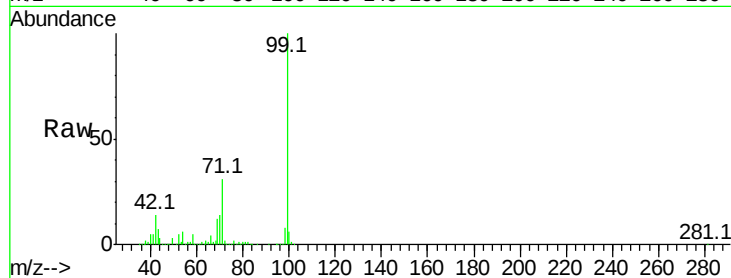
99 100

42 14.0 19.2 28.8#

71 30.5 35.0 52.4#

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#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.12 min Scan# 528

Delta R.T. -0.02 min

Lab File: BF082867.D

Acq: 10 Nov 2015 11:39

Tgt Ion: 136 Resp: 990091

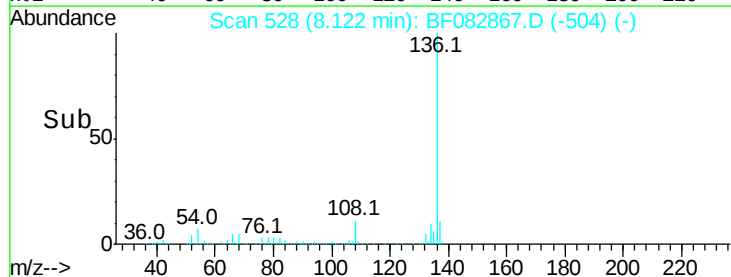
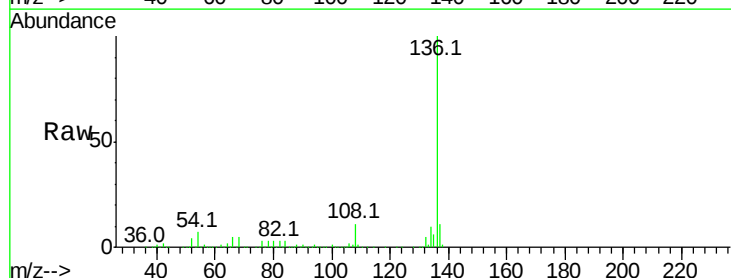
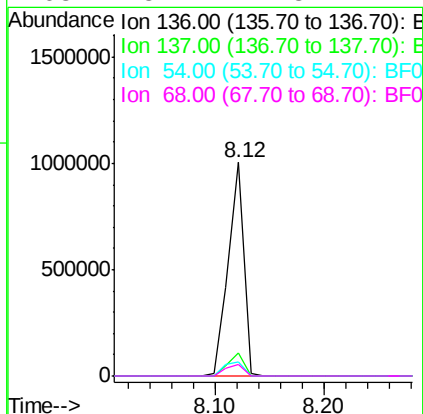
Ion Ratio Lower Upper

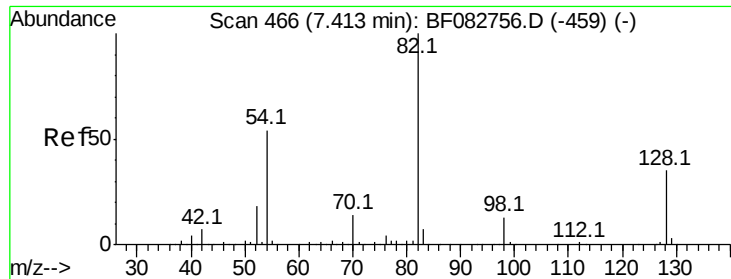
136 100

137 11.0 9.1 13.7

54 6.8 9.1 13.7#

68 5.2 4.8 7.2





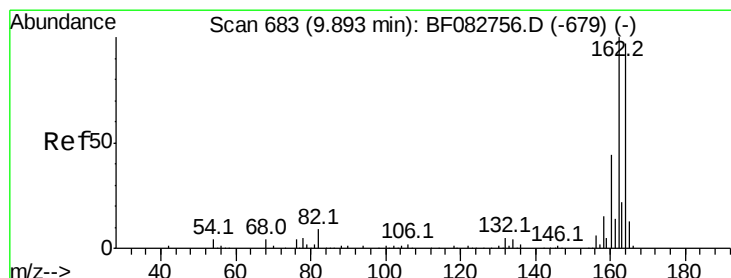
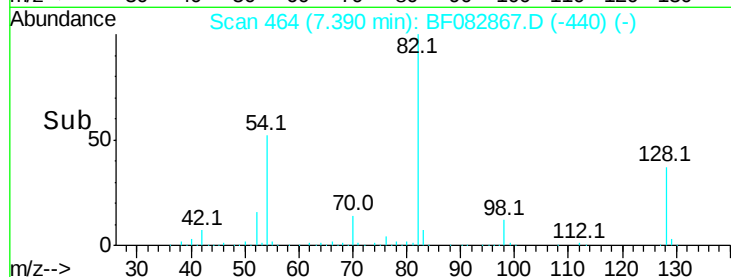
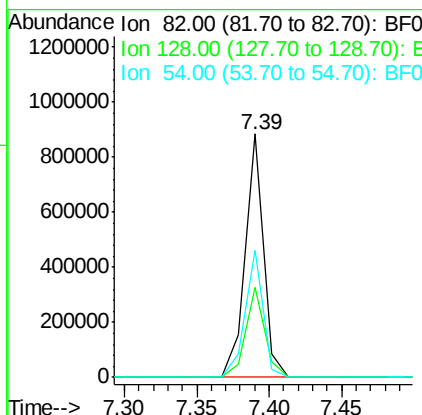
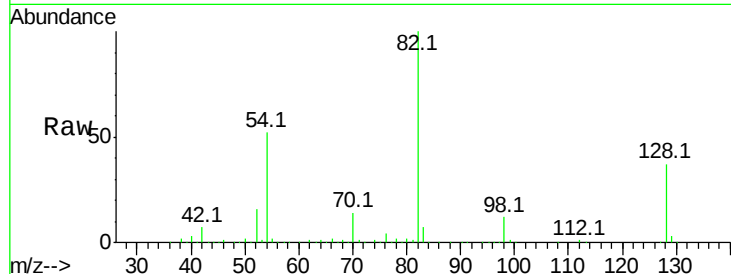
#23
Nitrobenzene-d5
Concen: 34.09 ng
RT: 7.39 min Scan# 464
Delta R.T. -0.02 min
Lab File: BF082867.D
Acq: 10 Nov 2015 11:39

Instrument :
BNA_F
ClientSampleId :
1DL

Tot Ion	Ratio	Lower	Upper
82	100		
128	36.8	26.8	40.2
54	52.0	45.7	68.5

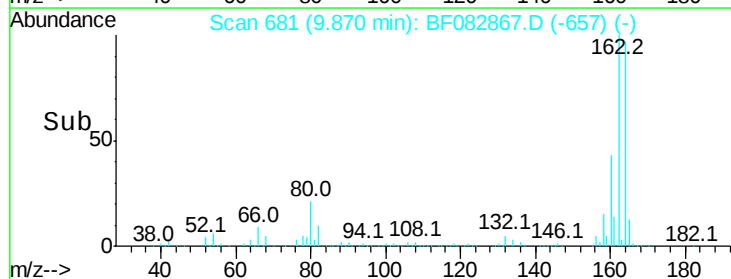
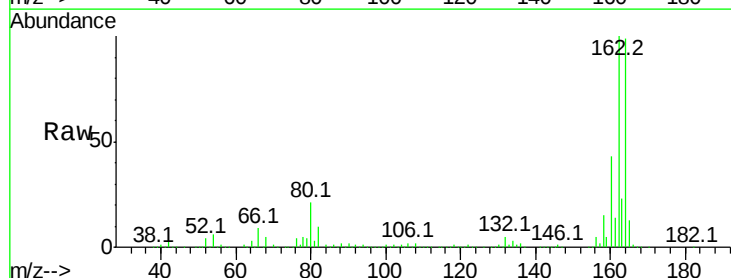
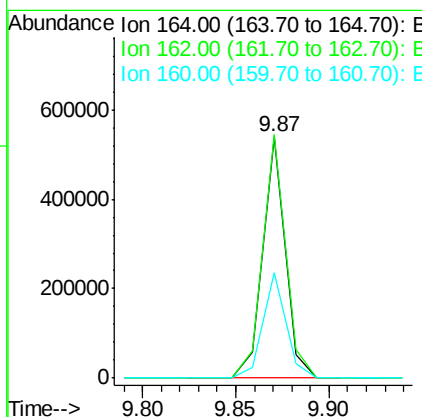
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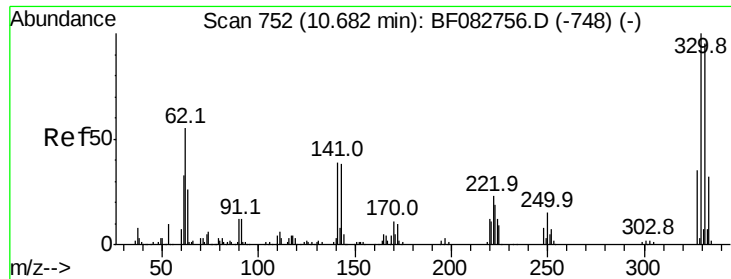
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.87 min Scan# 681
Delta R.T. -0.02 min
Lab File: BF082867.D
Acq: 10 Nov 2015 11:39

Tgt Ion	Ratio	Lower	Upper
164	100		
162	100.9	84.9	127.3
160	43.7	37.5	56.3





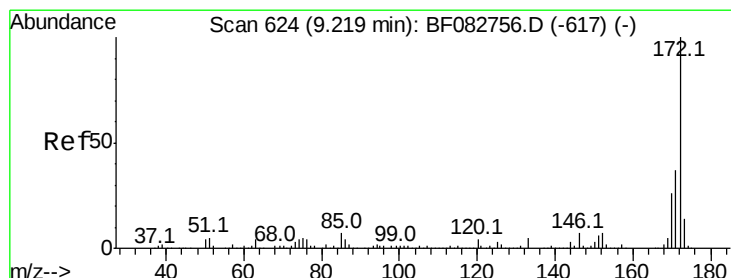
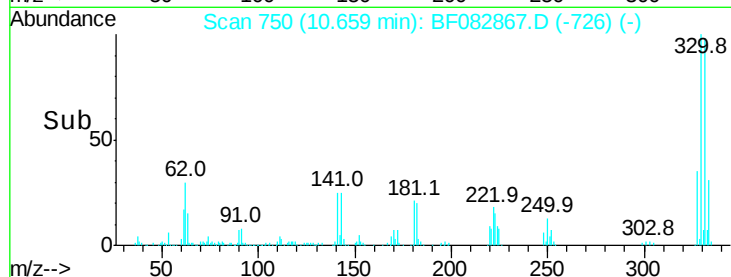
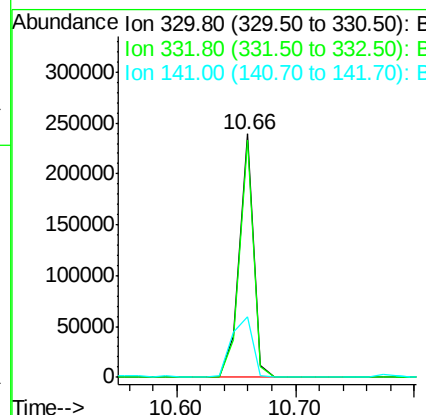
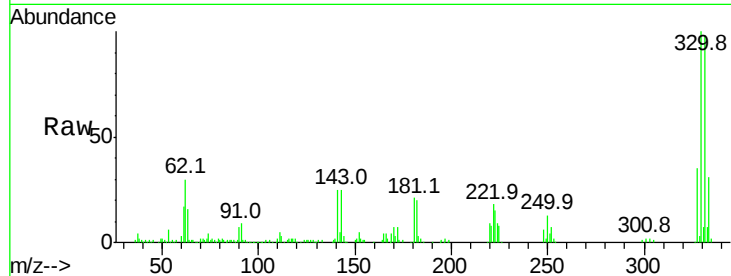
#41
 2,4,6-Tribromophenol
 Concen: 39.31 ng
 RT: 10.66 min Scan# 750
 Delta R.T. -0.02 min
 Lab File: BF082867.D
 Acq: 10 Nov 2015 11:39

Instrument :
 BNA_F
 ClientSampleId :
 1DL

Tot Ion	Ratio	Resp	Lower	Upper
330	100	201299		
332	96.7	76.6	114.8	
141	37.2	41.2	61.8#	

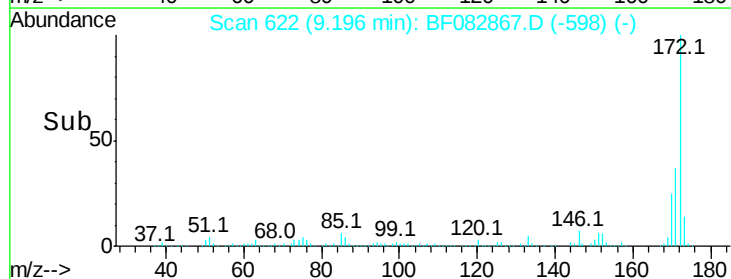
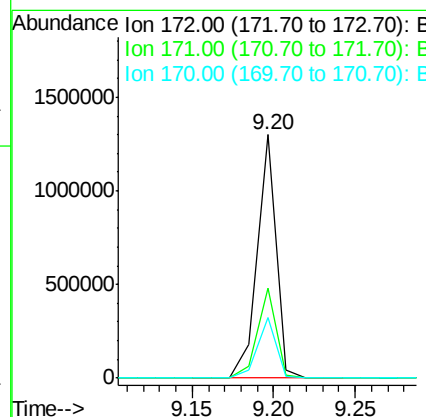
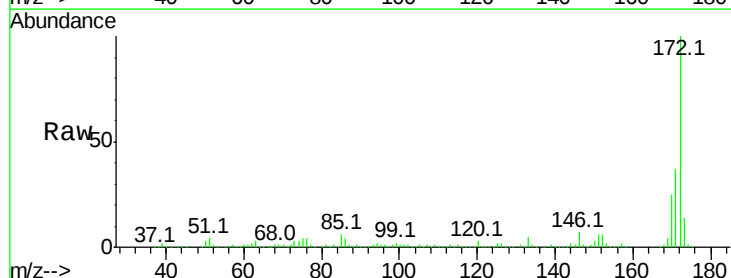
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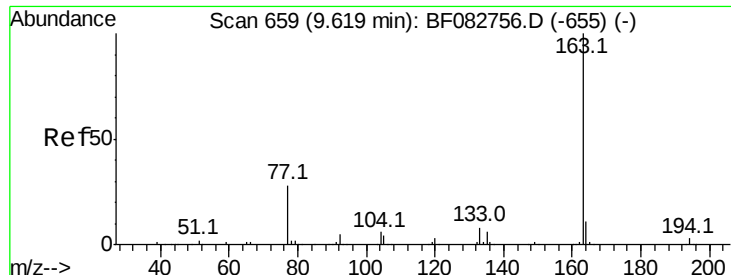
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#44
 2-Fluorobiphenyl
 Concen: 33.68 ng
 RT: 9.20 min Scan# 622
 Delta R.T. -0.02 min
 Lab File: BF082867.D
 Acq: 10 Nov 2015 11:39

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	1049415		
171	36.9	30.8	46.2	
170	24.6	21.2	31.8	





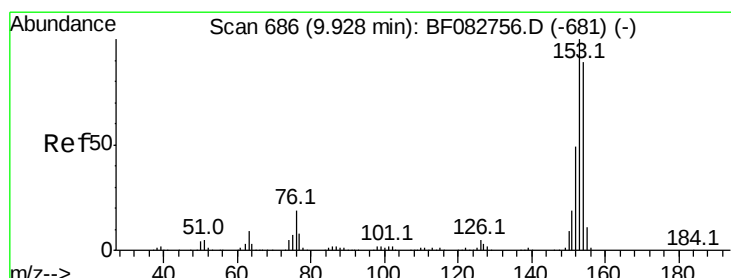
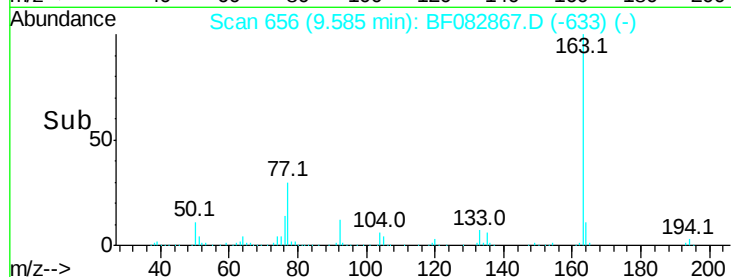
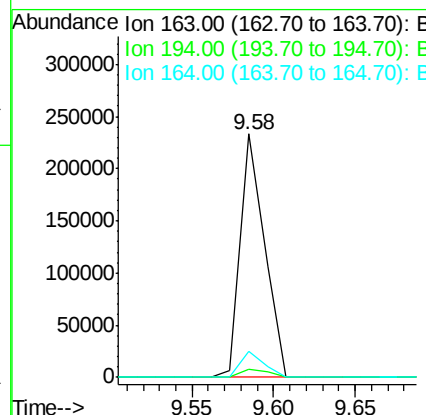
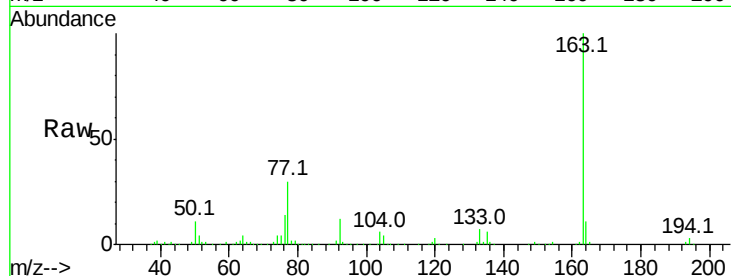
#49
Dimethylphthalate
Concen: 6.51 ng
RT: 9.58 min Scan# 656
Delta R.T. -0.03 min
Lab File: BF082867.D
Acq: 10 Nov 2015 11:39

Instrument :
BNA_F
ClientSampleId :
1DL

Tot Ion	Ratio	Resp	Lower	Upper
163	100	238231		
194	3.1	2.6	4.0	
164	10.7	8.7	13.1	

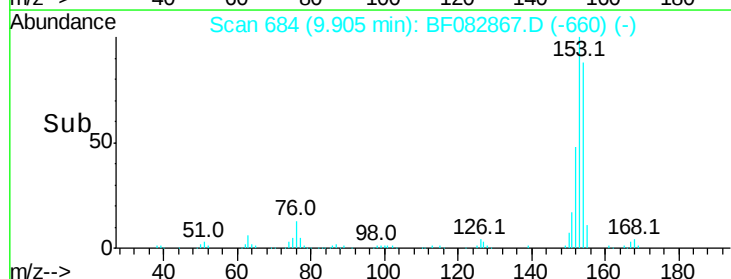
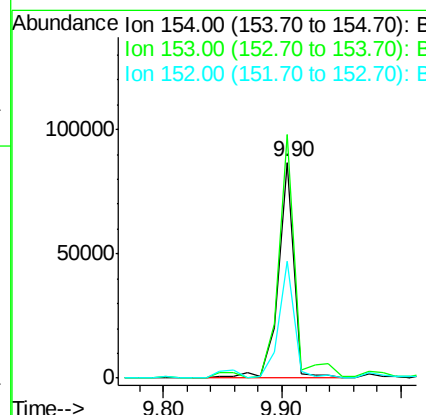
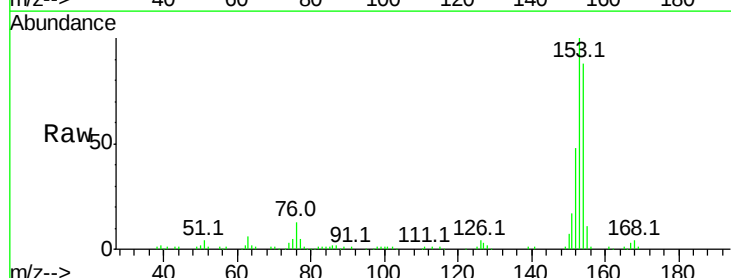
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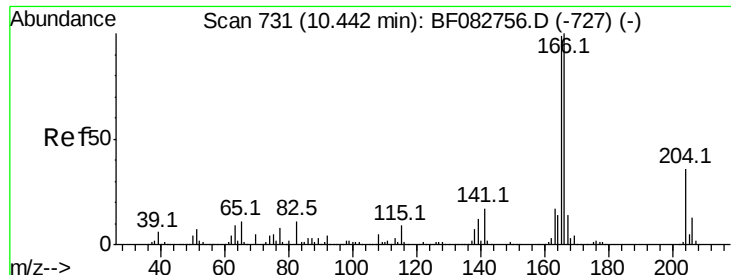
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#51
Acenaphthene
Concen: 2.66 ng
RT: 9.90 min Scan# 684
Delta R.T. -0.02 min
Lab File: BF082867.D
Acq: 10 Nov 2015 11:39

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	78866		
153	113.0	90.1	135.1	
152	54.0	44.3	66.5	





#57

Fluorene

Concen: 2.65 ng

RT: 10.42 min Scan# 729

Delta R.T. -0.02 min

Lab File: BF082867.D

Acq: 10 Nov 2015 11:39

Instrument :

BNA_F

ClientSampleId :

1DL

Tot Ion:166 Resp: 85949

Ion Ratio Lower Upper

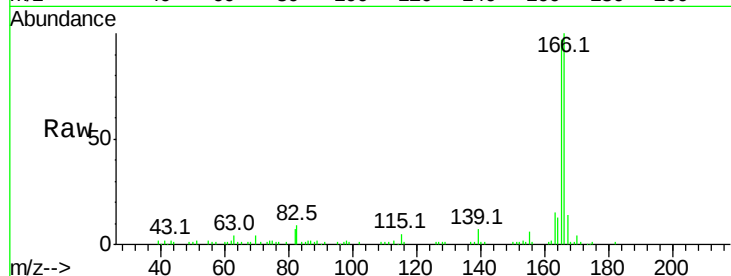
166 100

165 97.4 80.2 120.4

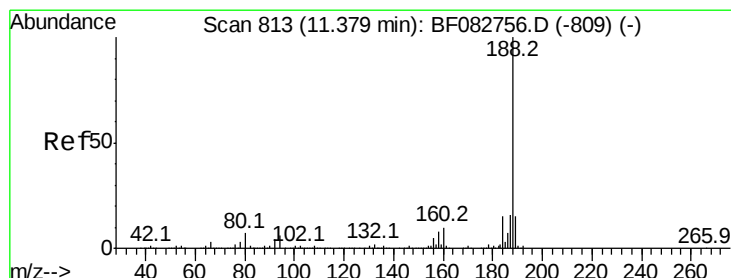
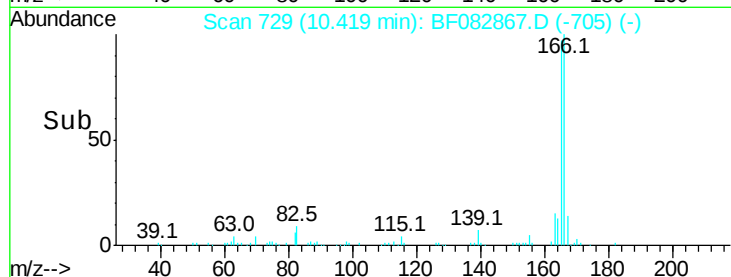
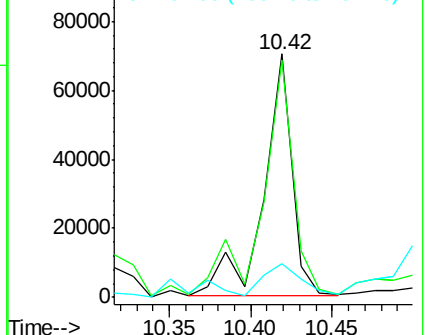
167 14.0 11.2 16.8

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Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.36 min Scan# 811

Delta R.T. -0.02 min

Lab File: BF082867.D

Acq: 10 Nov 2015 11:39

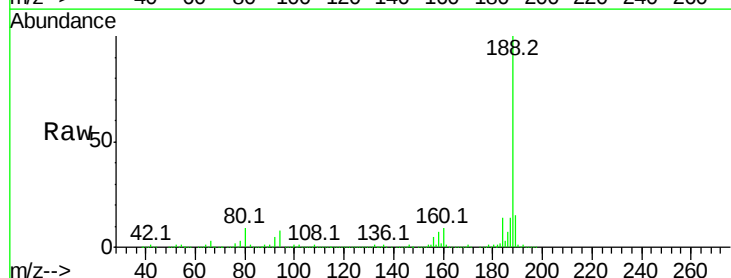
Tgt Ion:188 Resp: 699370

Ion Ratio Lower Upper

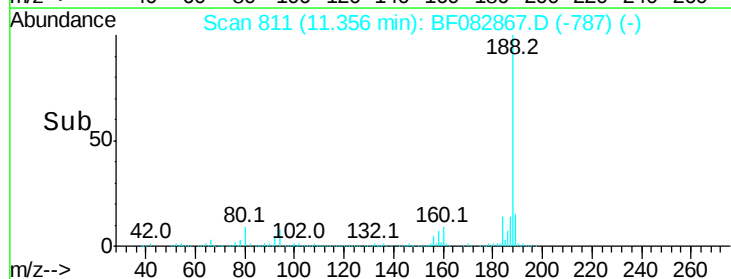
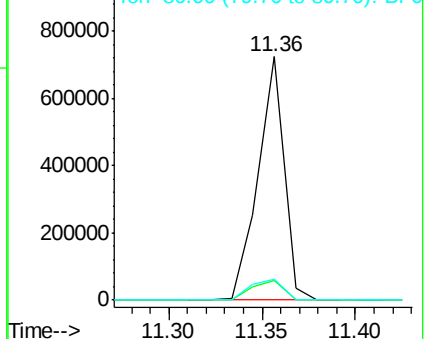
188 100

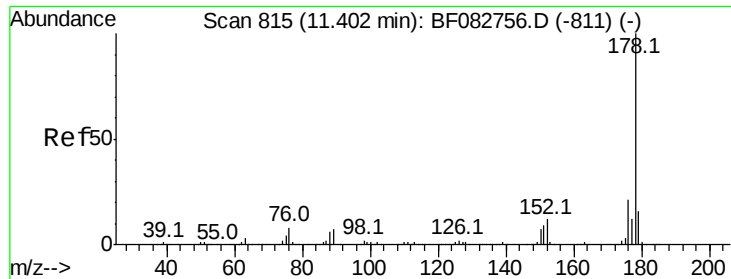
94 7.9 6.1 9.1

80 8.6 7.0 10.6



Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0





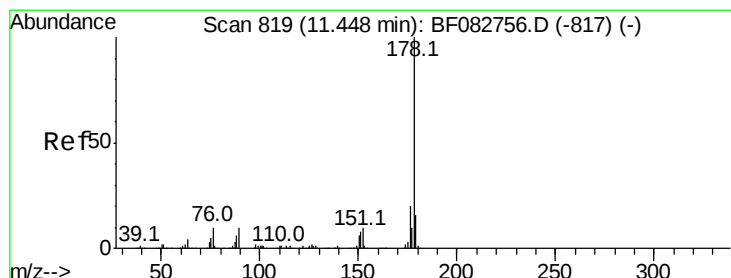
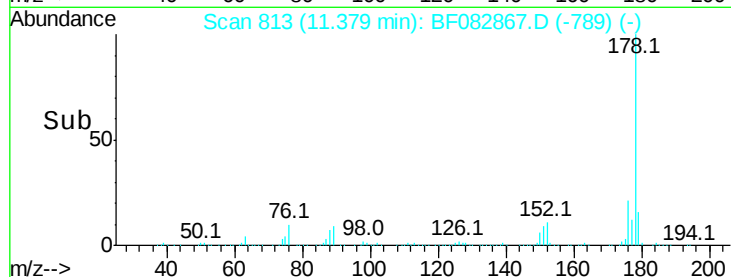
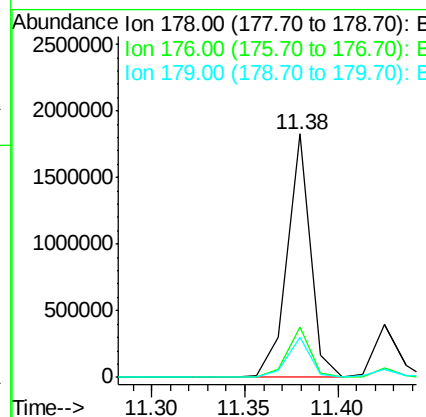
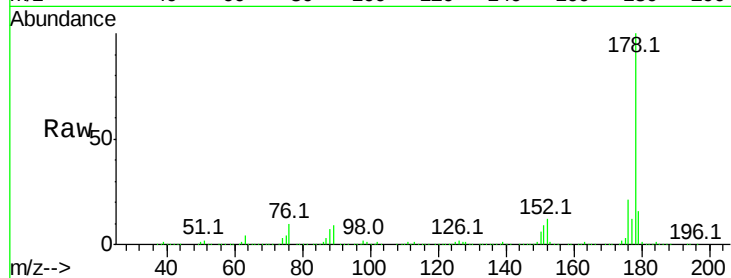
#70
Phenanthrene
Concen: 39.01 ng
RT: 11.38 min Scan# 813
Delta R.T. -0.02 min
Lab File: BF082867.D
Acq: 10 Nov 2015 11:39

Instrument :
BNA_F
ClientSampleId :
1DL

Tot Ion:178 Resp: 1584200
Ion Ratio Lower Upper
178 100
176 20.9 17.0 25.4
179 16.2 13.4 20.0

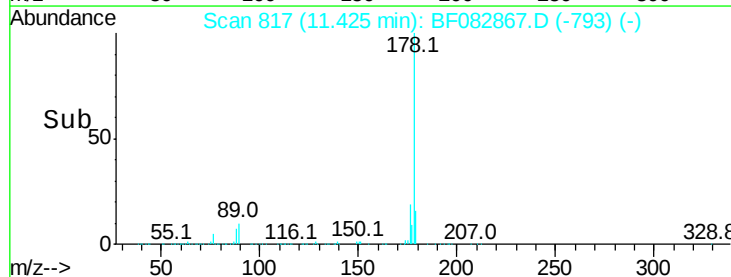
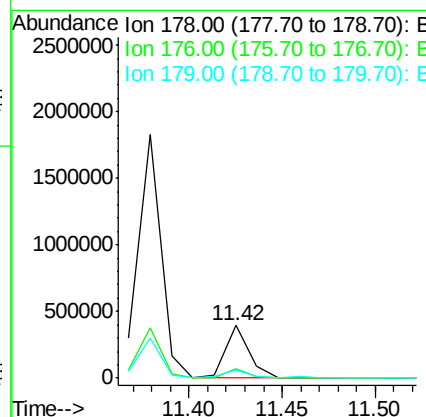
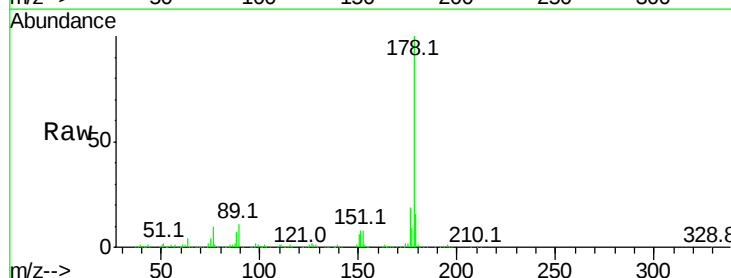
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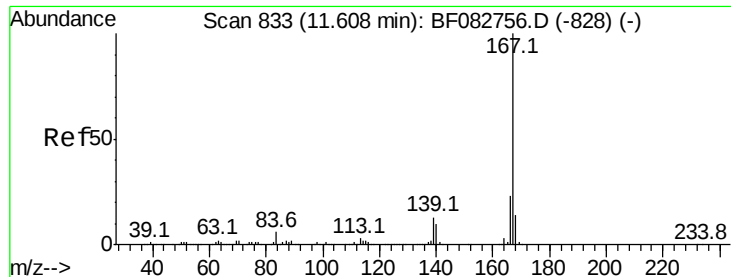
Mmdadoda
11/10/2015 1:02:56 PM



#71
Anthracene
Concen: 8.12 ng
RT: 11.42 min Scan# 817
Delta R.T. -0.02 min
Lab File: BF082867.D
Acq: 10 Nov 2015 11:39

Tgt Ion:178 Resp: 347497
Ion Ratio Lower Upper
178 100
176 18.7 16.5 24.7
179 16.4 13.2 19.8





#72

Carbazole

Concen: 2.30 ng

RT: 11.58 min Scan# 831

Delta R.T. -0.02 min

Lab File: BF082867.D

Acq: 10 Nov 2015 11:39

Instrument :

BNA_F

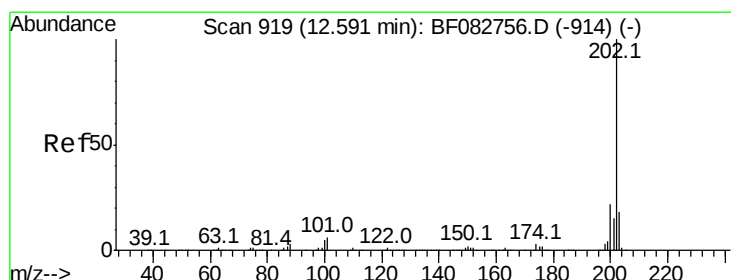
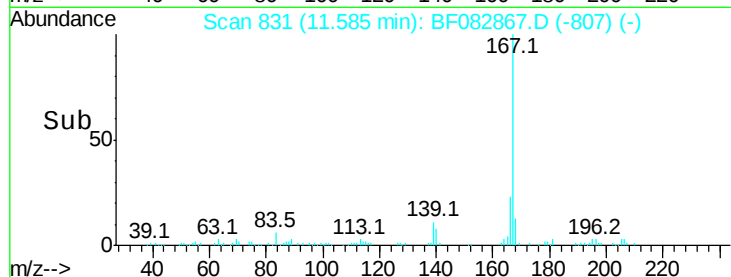
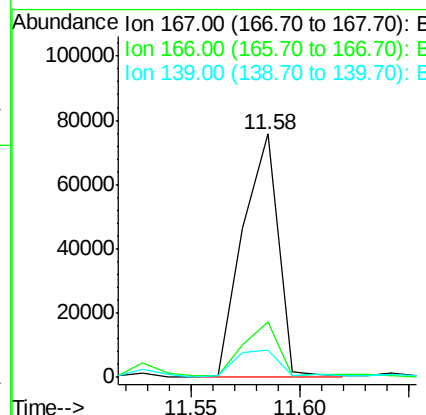
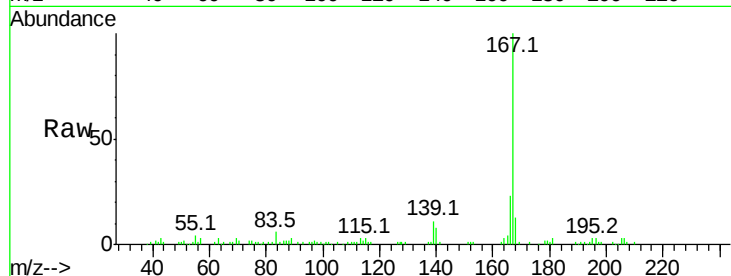
ClientSampleId :

1DL

Tot Ion:	167	Resp:	86276
Ion Ratio	Lower	Upper	
167	100		
166	22.8	18.7	28.1
139	11.1	11.8	17.6#

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#74

Fluoranthene

Concen: 34.71 ng

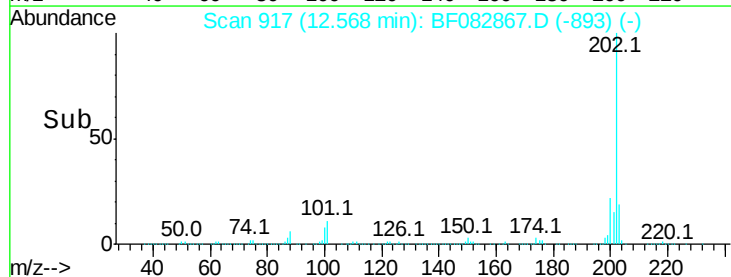
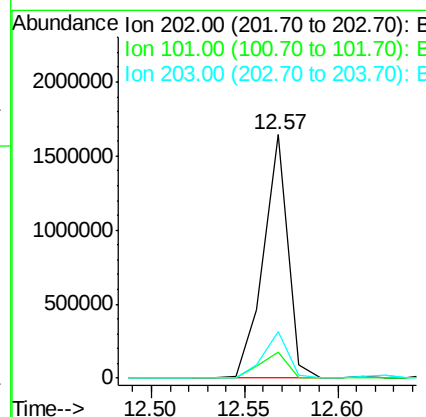
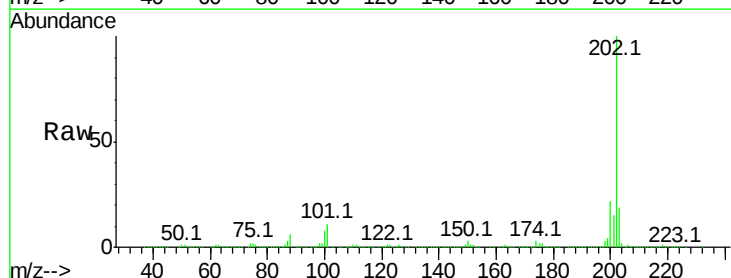
RT: 12.57 min Scan# 917

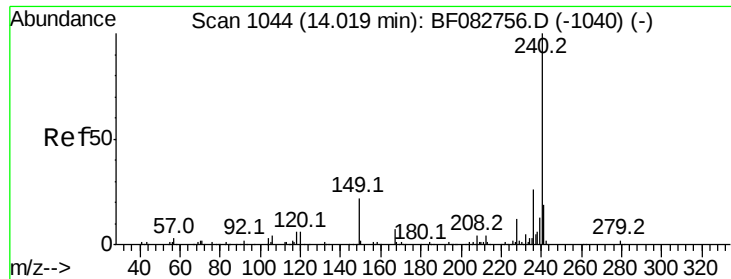
Delta R.T. -0.02 min

Lab File: BF082867.D

Acq: 10 Nov 2015 11:39

Tgt Ion:	202	Resp:	1512557
Ion Ratio	Lower	Upper	
202	100		
101	10.9	0.0	30.5
203	19.0	0.0	38.5





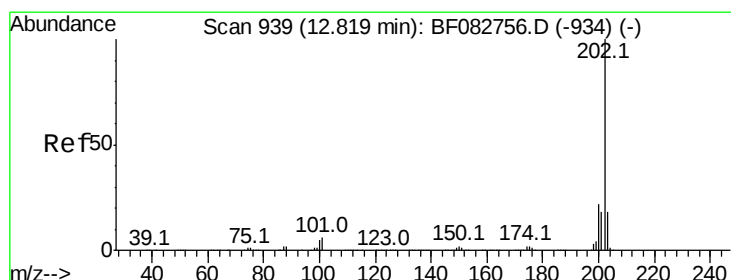
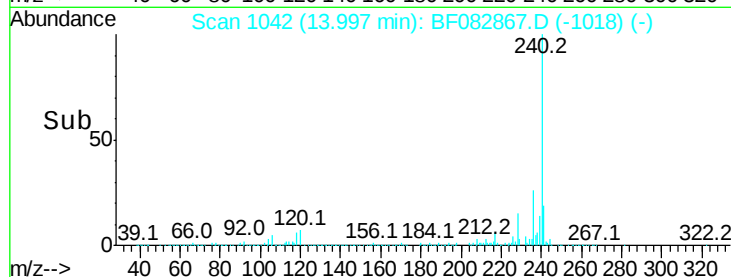
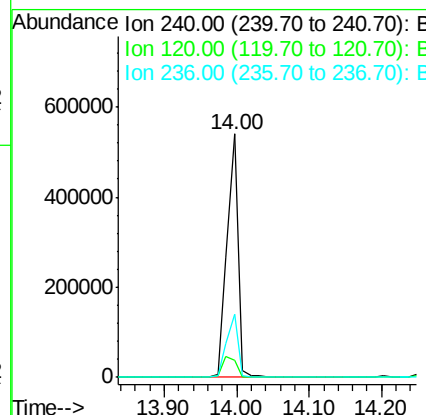
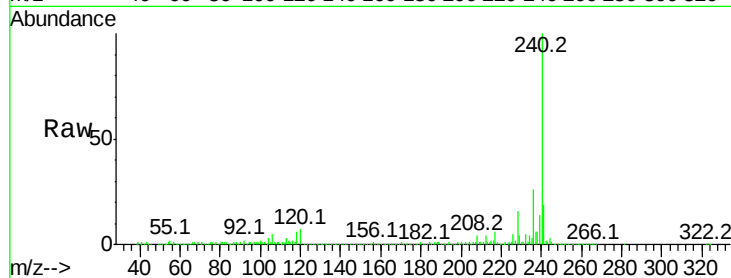
#75
Chrysene-d12
Concen: 20.00 ng
RT: 14.00 min Scan# 1042
Delta R.T. -0.02 min
Lab File: BF082867.D
Acq: 10 Nov 2015 11:39

Instrument :
BNA_F
ClientSampleId :
1DL

Tot Ion	Ratio	Resp	Lower	Upper
240	100	572568		
120	6.8	10.9	16.3	
236	26.2	21.6	32.4	

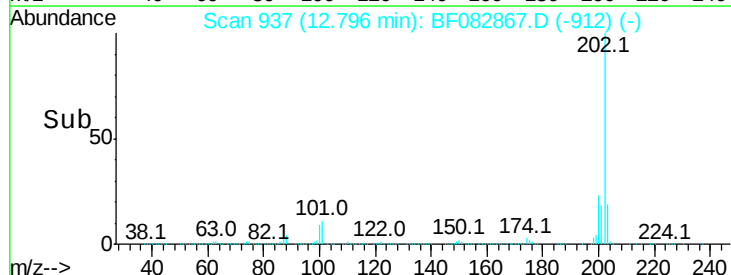
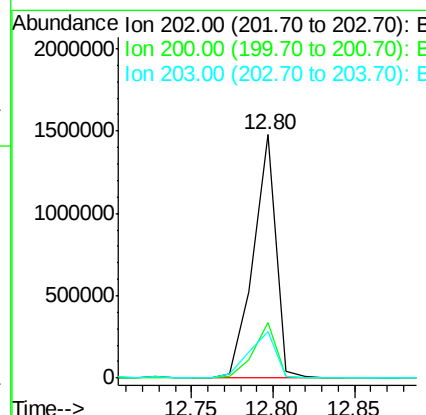
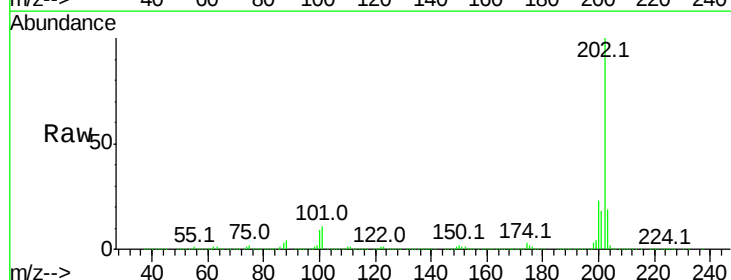
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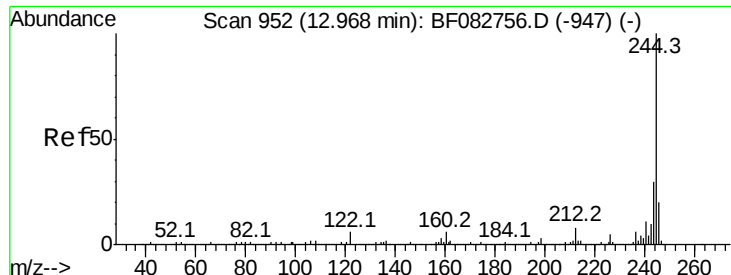
Mmdadoda
11/10/2015 1:02:56 PM



#77
Pyrene
Concen: 36.03 ng
RT: 12.80 min Scan# 937
Delta R.T. -0.01 min
Lab File: BF082867.D
Acq: 10 Nov 2015 11:39

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	1416562		
200	22.6	18.7	28.1	
203	18.9	14.8	22.2	





#78

Terphenyl-d14

Concen: 30.53 ng

RT: 12.95 min Scan# 950

Delta R.T. -0.02 min

Lab File: BF082867.D

Acq: 10 Nov 2015 11:39

Instrument :

BNA_F

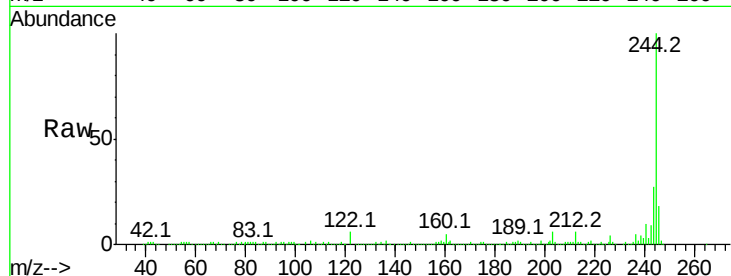
ClientSampleId :

1DL

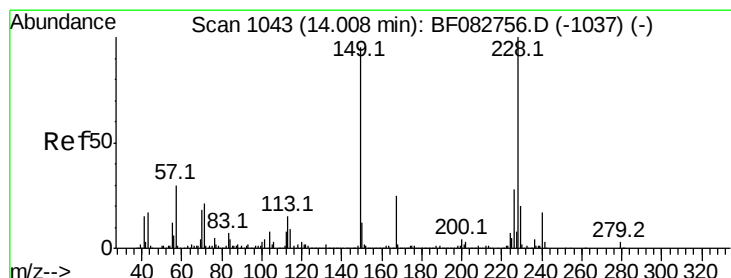
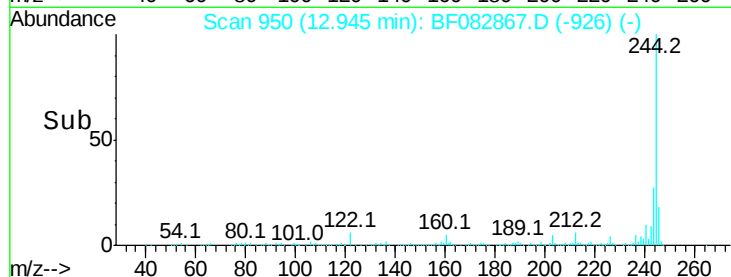
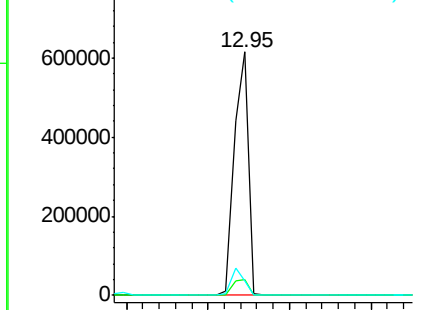
Tot Ion:	244	Resp:	737030
Ion Ratio	Lower	Upper	
244	100		
212	6.4	7.6	11.4#
122	6.0	11.3	16.9#

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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: 20.53 ng

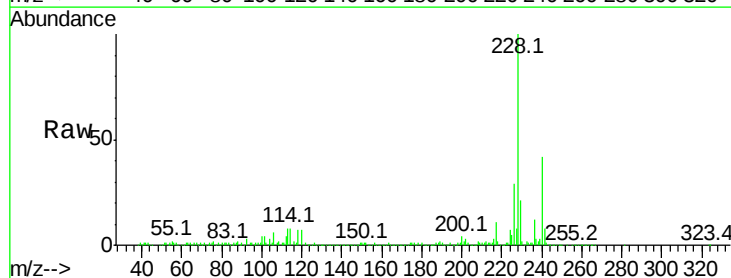
RT: 13.99 min Scan# 1041

Delta R.T. -0.02 min

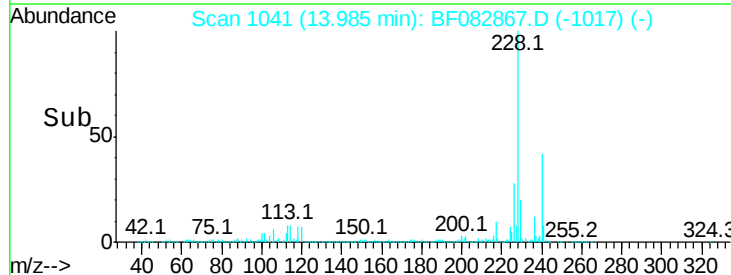
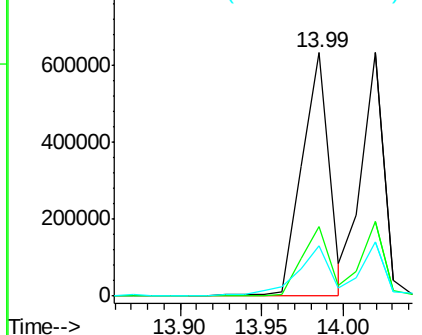
Lab File: BF082867.D

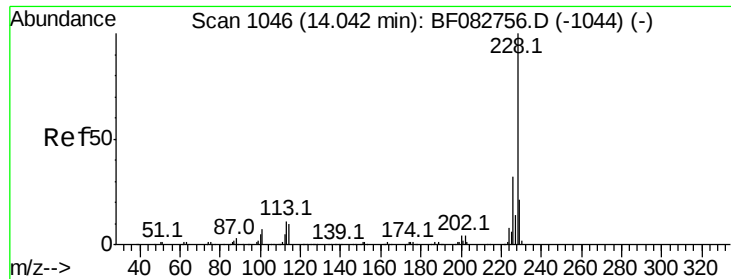
Acq: 10 Nov 2015 11:39

Tgt Ion:	228	Resp:	734953
Ion Ratio	Lower	Upper	
228	100		
226	28.5	23.4	35.2
229	20.6	16.3	24.5



Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E





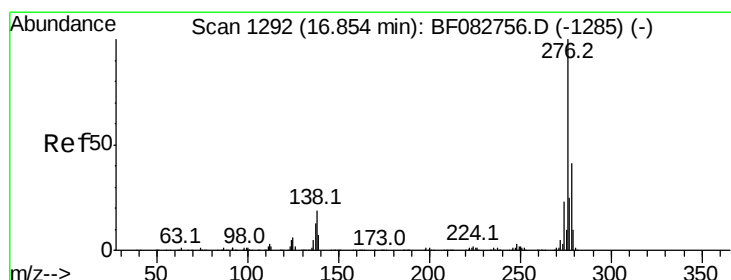
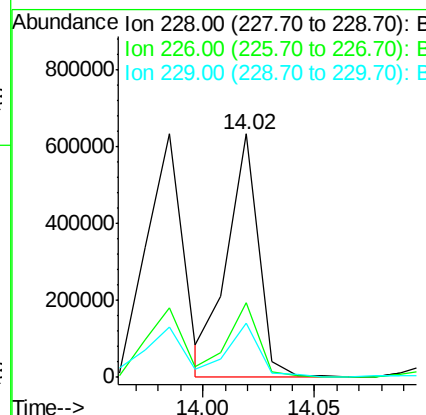
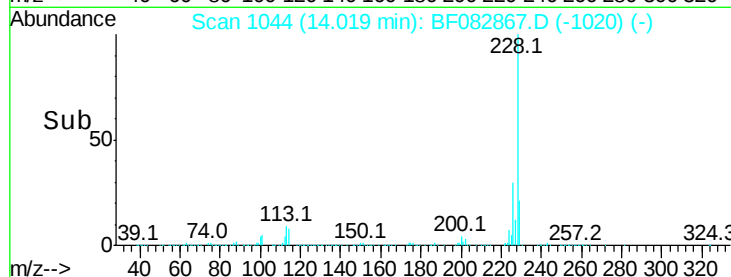
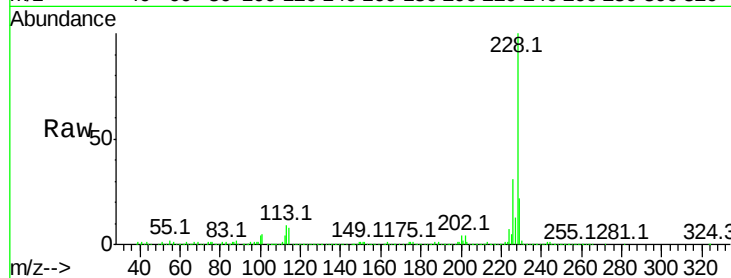
#82
Chrysene
Concen: 18.74 ng/ml
RT: 14.02 min Scan# 1044
Delta R.T. -0.02 min
Lab File: BF082867.D
Acq: 10 Nov 2015 11:39

Instrument :
BNA_F
ClientSampleId :
1DL

Tot Ion:	228	Resp:	614527
Ion Ratio	Lower	Upper	
228	100		
226	30.5	25.5	38.3
229	22.1	16.3	24.5

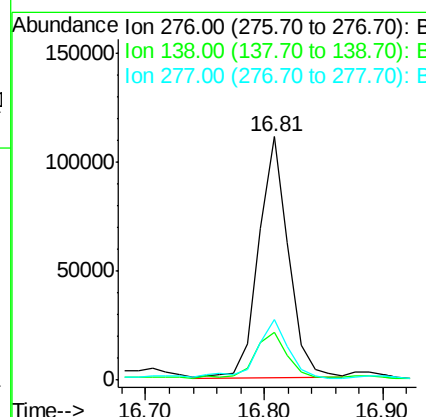
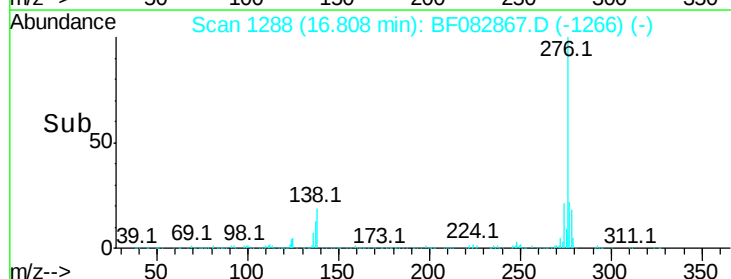
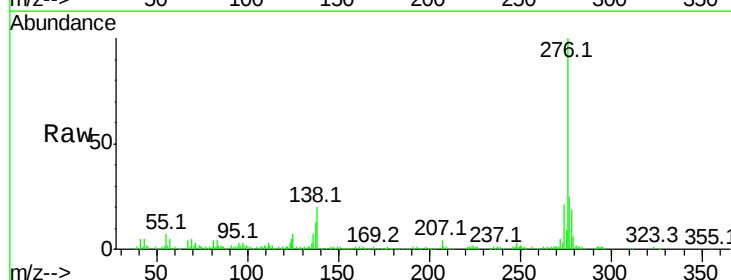
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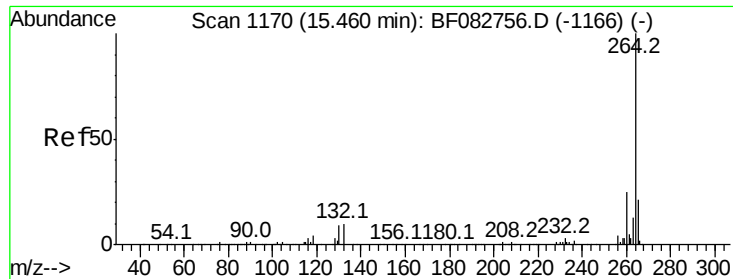
Mmdadoda
11/10/2015 1:02:56 PM



#85
Indeno(1,2,3-cd)pyrene
Concen: 6.88 ng
RT: 16.81 min Scan# 1288
Delta R.T. -0.05 min
Lab File: BF082867.D
Acq: 10 Nov 2015 11:39

Tgt Ion:	276	Resp:	194251
Ion Ratio	Lower	Upper	
276	100		
138	22.2	15.3	22.9
277	25.8	20.2	30.4





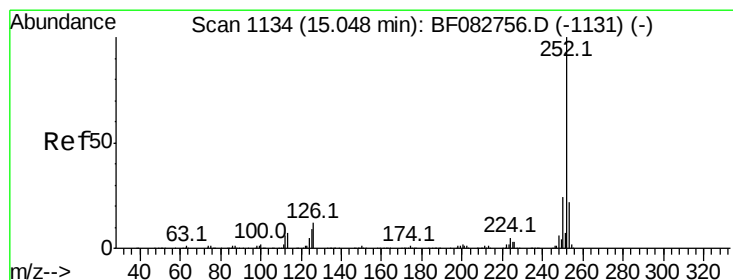
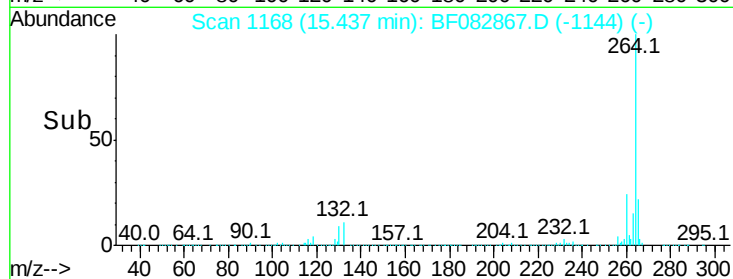
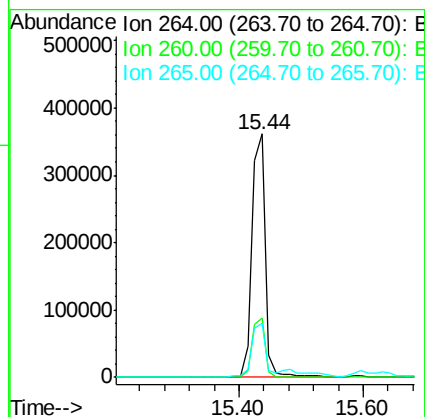
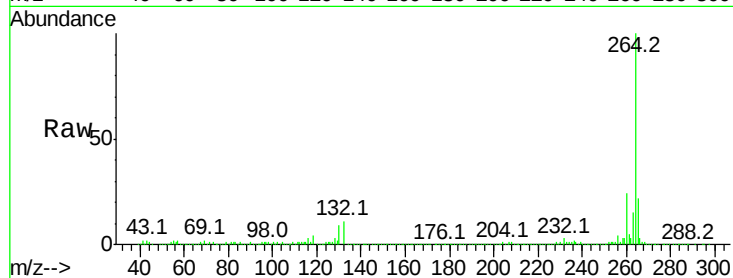
#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.44 min Scan# 1168
Delta R.T. -0.02 min
Lab File: BF082867.D
Acq: 10 Nov 2015 11:39

Instrument :
BNA_F
ClientSampled :
1DL

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.3	19.8	29.6
265	22.1	17.4	26.0

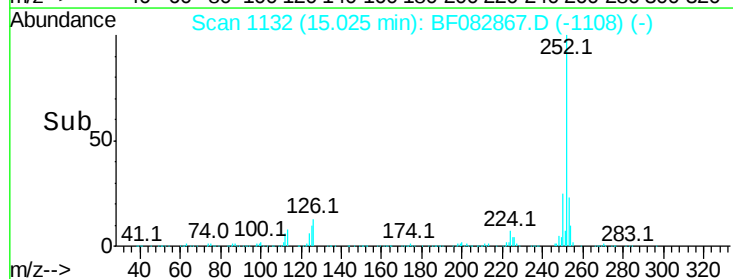
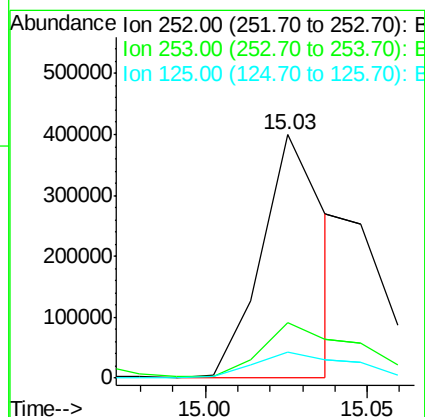
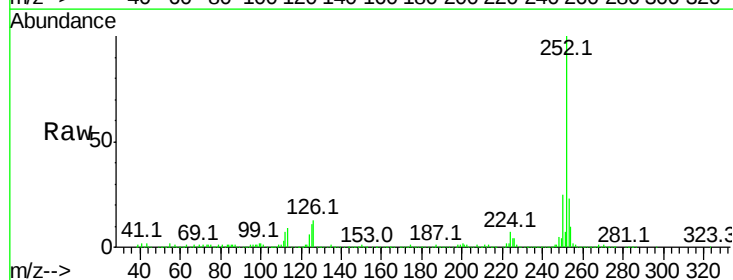
Manual Integrations
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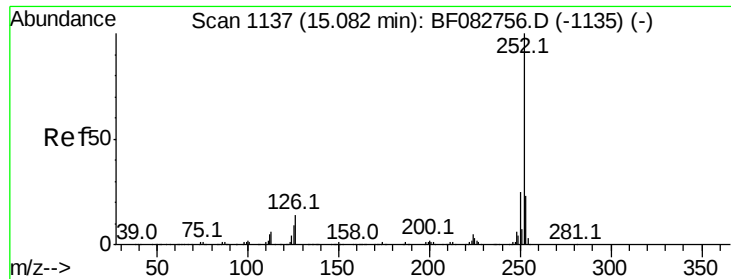
Mmdadoda
11/10/2015 1:02:56 PM



#87
Benzo(b)fluoranthene
Concen: 15.90 ng m
RT: 15.03 min Scan# 1132
Delta R.T. -0.02 min
Lab File: BF082867.D
Acq: 10 Nov 2015 11:39

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.8	26.8
125	10.7	5.4	8.2#





#88

Benzo(k)fluoranthene

Concen: 7.84 ng m

RT: 15.04 min Scan# 1133

Delta R.T. -0.05 min

Lab File: BF082867.D

Acq: 10 Nov 2015 11:39

Instrument :

BNA_F

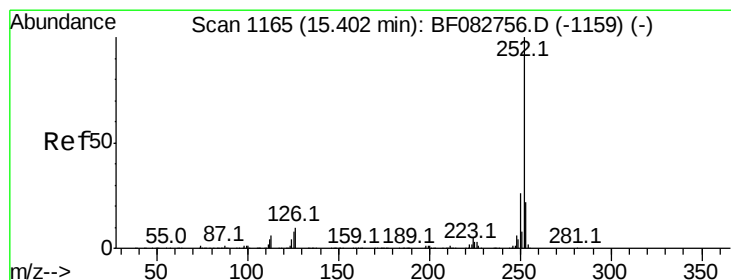
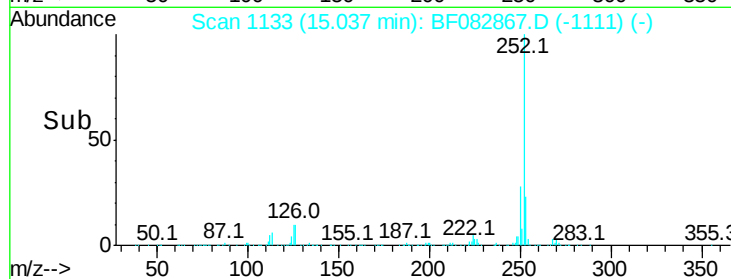
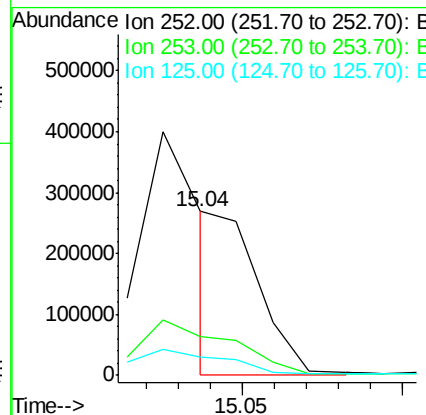
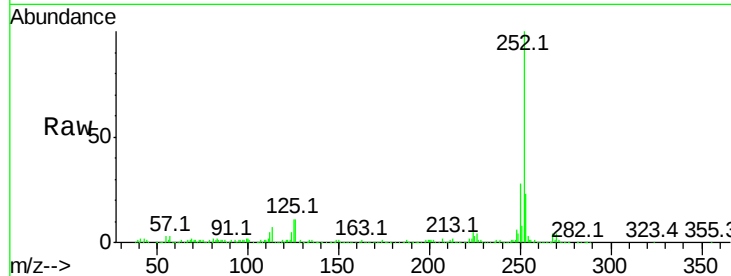
ClientSampleId :

1DL

Tot Ion:	252	Resp:	240757
Ion Ratio	Lower	Upper	
252	100		
253	23.5	17.9	26.9
125	10.9	3.5	5.3#

Manual Integrations
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11/10/2015 1:02:56 PM



#89

Benzo(a)pyrene

Concen: 13.36 ng m

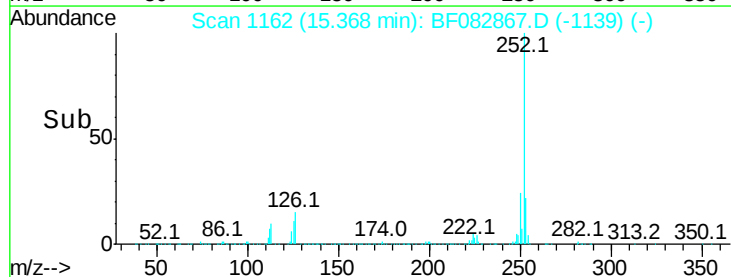
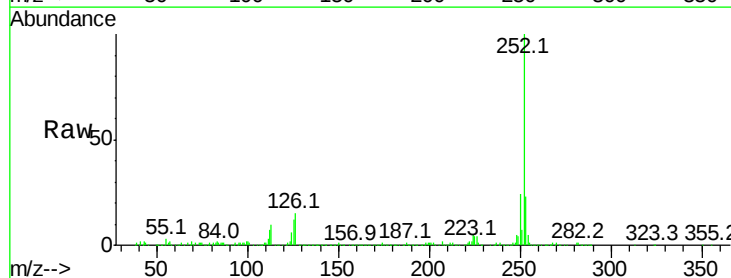
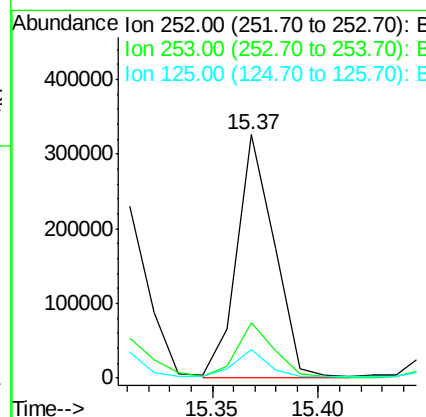
RT: 15.37 min Scan# 1162

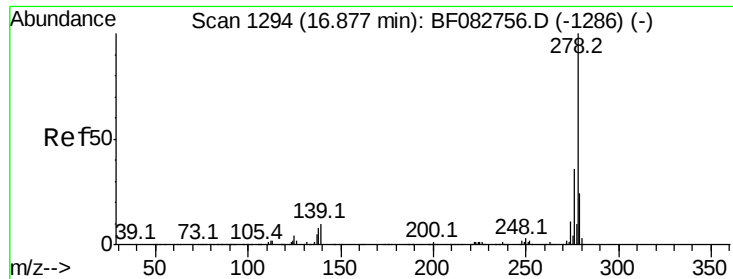
Delta R.T. -0.03 min

Lab File: BF082867.D

Acq: 10 Nov 2015 11:39

Tgt Ion:	252	Resp:	400550
Ion Ratio	Lower	Upper	
252	100		
253	23.0	17.3	25.9
125	11.7	7.1	10.7#





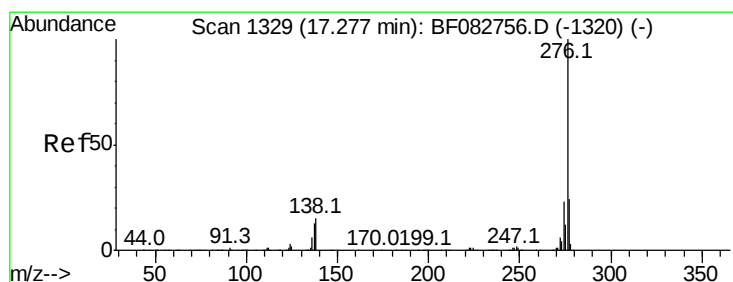
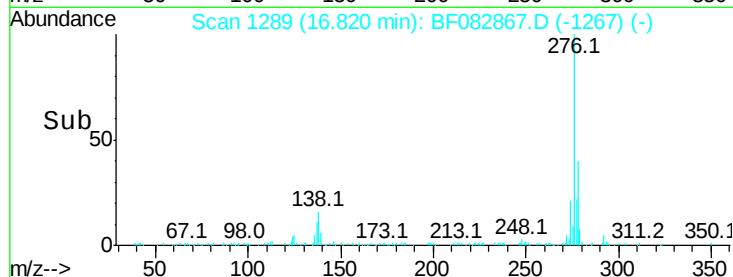
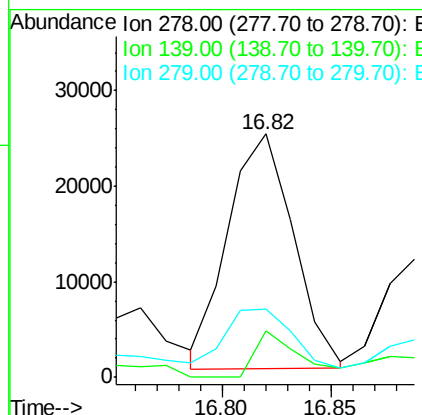
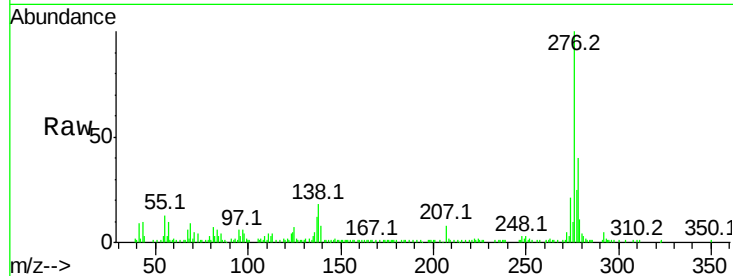
#90
Dibenzo(a,h)anthracene
Concen: 2.03 ng
RT: 16.82 min Scan# 1289
Delta R.T. -0.05 min
Lab File: BF082867.D
Acq: 10 Nov 2015 11:39

Instrument :
BNA_F
ClientSampleId :
1DL

Tot Ion	Ratio	Lower	Upper
278	100		
139	19.0	9.9	14.9#
279	28.1	19.6	29.4

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#91
Benzo(g,h,i)perylene
Concen: 6.97 ng
RT: 17.22 min Scan# 1324
Delta R.T. -0.05 min
Lab File: BF082867.D
Acq: 10 Nov 2015 11:39

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.5	19.2	28.8
138	22.9	13.1	19.7#

