

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF060816\
 Data File : BF087823.D
 Acq On : 8 Jun 2016 21:47
 Operator : UM/SJ
 Sample : H3379-12 2X
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SS-8

Quant Time: Jun 09 02:01:58 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jun 07 18:51:55 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.82	152	137663	20.00	ng	-0.02
21) Naphthalene-d8	8.11	136	594043	20.00	ng	-0.01
38) Acenaphthene-d10	9.87	164	258423	20.00	ng	-0.01
63) Phenanthrene-d10	11.36	188	382913	20.00	ng	0.00
75) Chrysene-d12	14.00	240	309898	20.00	ng	0.01
86) Perylene-d12	15.43	264	263739	20.00	ng	0.03

System Monitoring Compounds

5) 2-Fluorophenol	5.42	112	376186	46.72	ng	-0.01
7) Phenol-d6	6.46	99	454848	46.61	ng	-0.02
23) Nitrobenzene-d5	7.39	82	281922	27.71	ng	-0.02
41) 2,4,6-Tribromophenol	10.66	330	98324	36.03	ng	-0.01
44) 2-Fluorobiphenyl	9.20	172	506494	27.01	ng	-0.01
78) Terphenyl-d14	12.95	244	340738	25.02	ng	0.00

Target Compounds

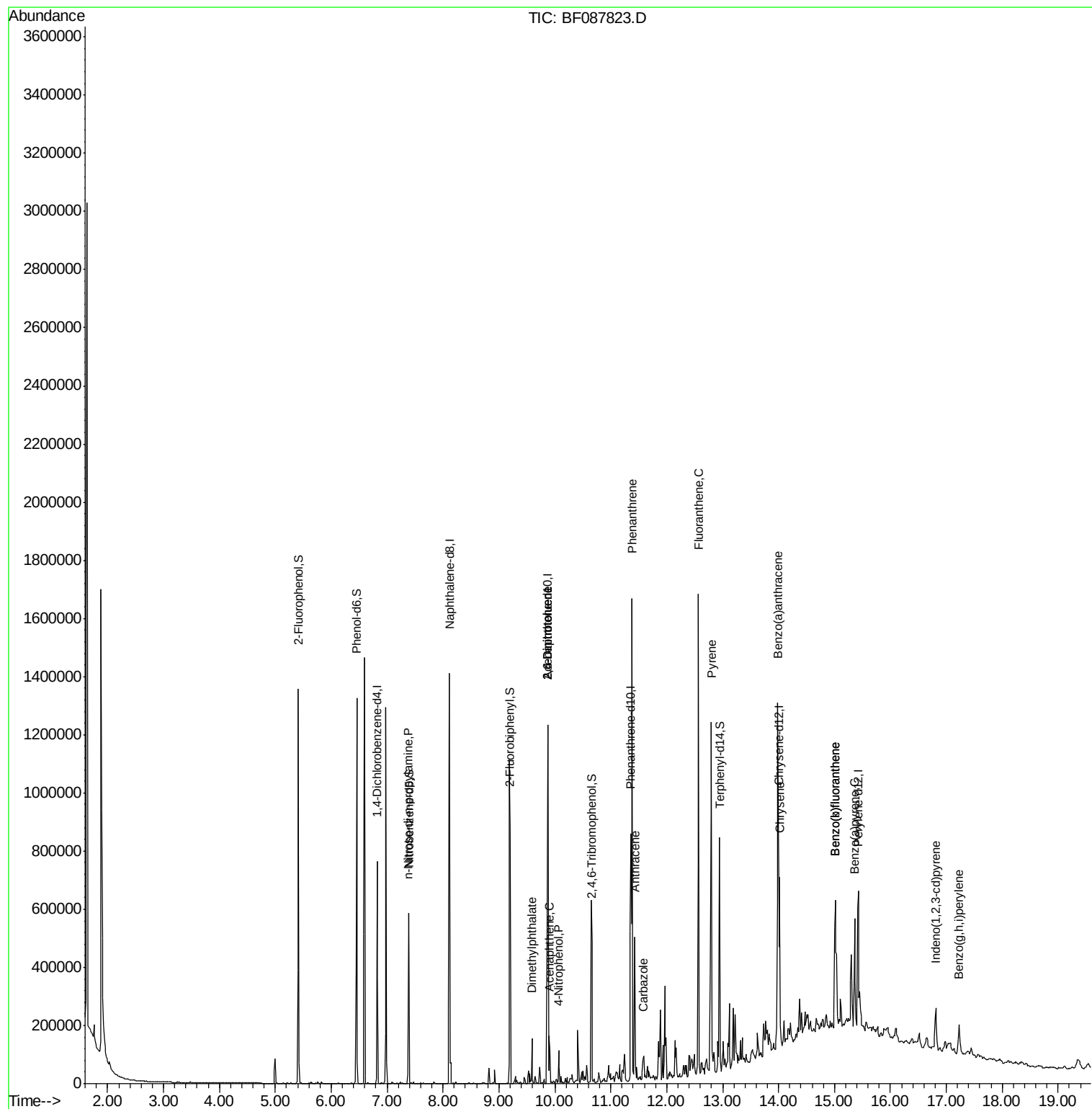
						Qvalue
10) Phenol	6.47	94	5589	Below Cal		88
19) n-Nitroso-di-n-propylamine	7.38	70	35480	5.68 ng	#	79
45) 1,1'-Biphenyl	9.29	154	6515	Below Cal		95
49) Dimethylphthalate	9.59	163	56059	2.99 ng		99
50) 2,6-Dinitrotoluene	9.87	165	34479	8.04 ng	#	40
51) Acenaphthene	9.90	154	48402	2.92 ng		97
55) 4-Nitrophenol	10.07	139	15963	4.16 ng	#	6
56) 2,4-Dinitrotoluene	9.87	165	34479	6.26 ng	#	38
57) Fluorene	10.41	166	55575	Below Cal		98
70) Phenanthrene	11.38	178	633648	31.54 ng		99
71) Anthracene	11.43	178	178872	8.83 ng		98
72) Carbazole	11.59	167	46746	2.46 ng	#	96
74) Fluoranthene	12.57	202	717313	33.83 ng		97
77) Pyrene	12.80	202	634750	27.60 ng		99
80) Benzo(a)anthracene	13.99	228	304878	17.26 ng		99
82) Chrysene	14.02	228	249950	15.04 ng		96
85) Indeno(1,2,3-cd)pyrene	16.81	276	96838	6.27 ng	#	100
87) Benzo(b)fluoranthene	15.02	252	365631	19.89 ng	#	94
88) Benzo(k)fluoranthene	15.02	252	365631	26.37 ng		98
89) Benzo(a)pyrene	15.36	252	191146	12.85 ng		97
91) Benzo(g,h,i)perylene	17.22	276	88052	6.20 ng		98

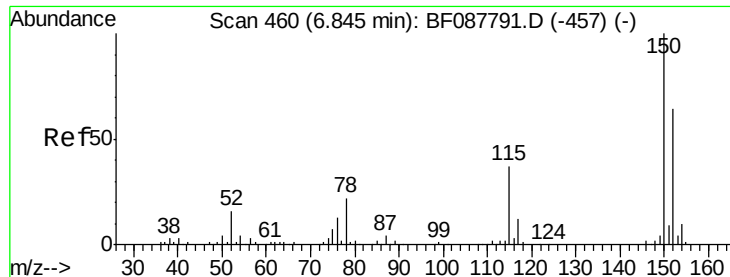
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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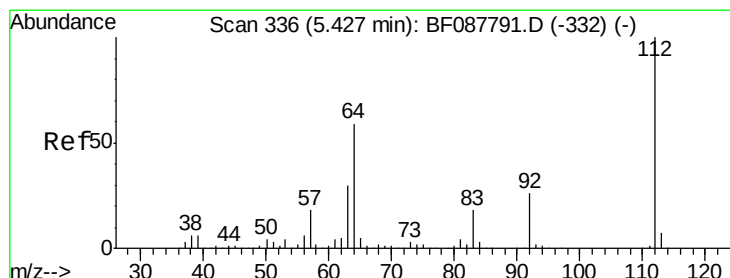
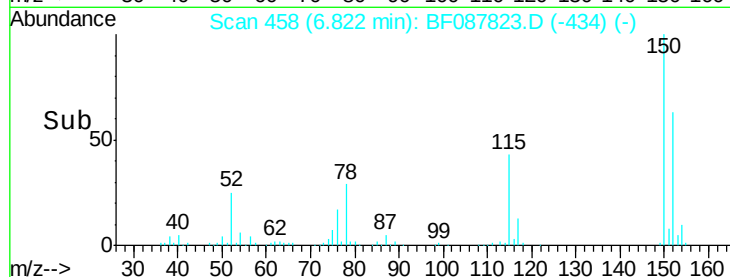
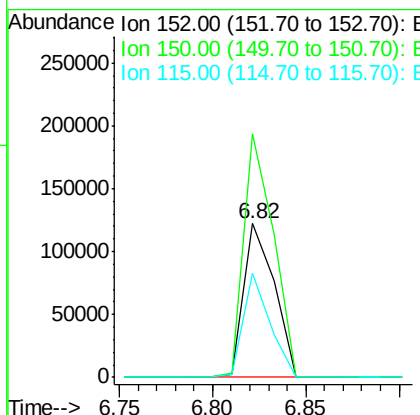
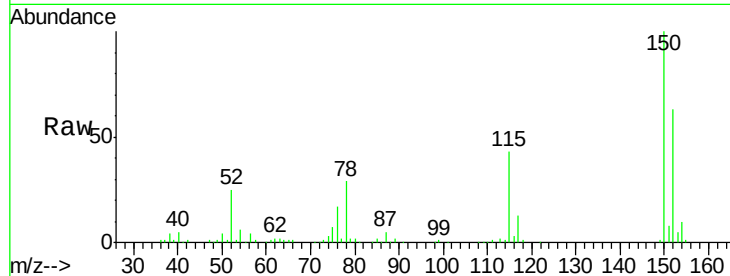




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 6.82 min Scan# 458
 Delta R.T. -0.02 min
 Lab File: BF087823.D
 Acq: 8 Jun 2016 21:47

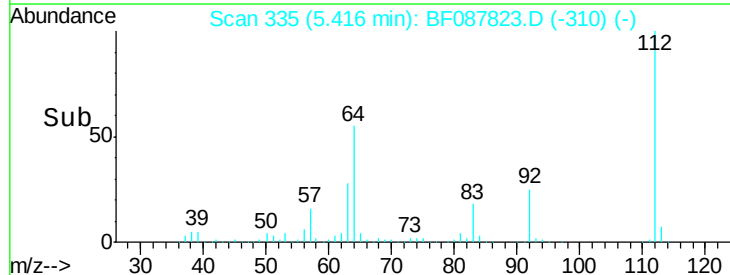
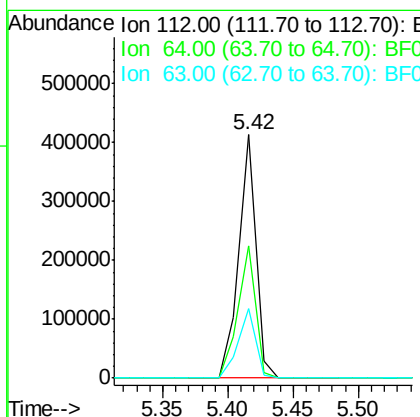
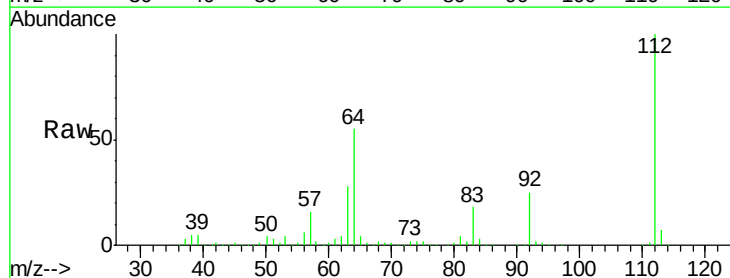
Instrument :
 BNA_F
 ClientSampleId :
 SS-8

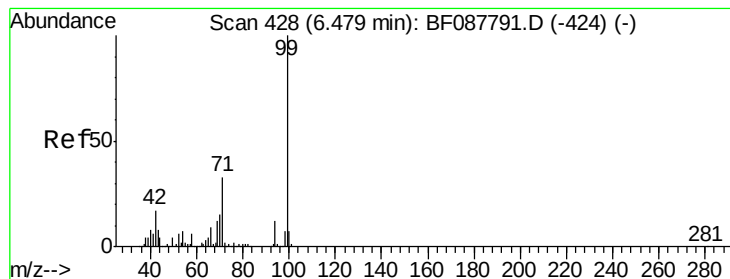
Tgt Ion:152 Resp: 137663
 Ion Ratio Lower Upper
 152 100
 150 158.5 123.8 185.6
 115 67.8 39.6 59.4#



#5
 2-Fluorophenol
 Concen: 46.72 ng
 RT: 5.42 min Scan# 335
 Delta R.T. -0.01 min
 Lab File: BF087823.D
 Acq: 8 Jun 2016 21:47

Tgt Ion:112 Resp: 376186
 Ion Ratio Lower Upper
 112 100
 64 54.5 42.2 63.2
 63 28.5 21.8 32.8





#7

Phenol-d6

Concen: 46.61 ng

RT: 6.46 min Scan# 426

Delta R.T. -0.02 min

Lab File: BF087823.D

Acq: 8 Jun 2016 21:47

Instrument :

BNA_F

ClientSampled :

SS-8

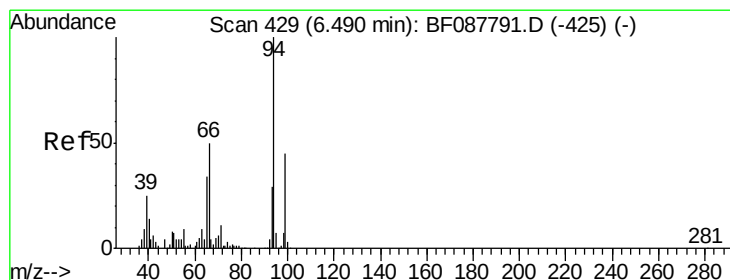
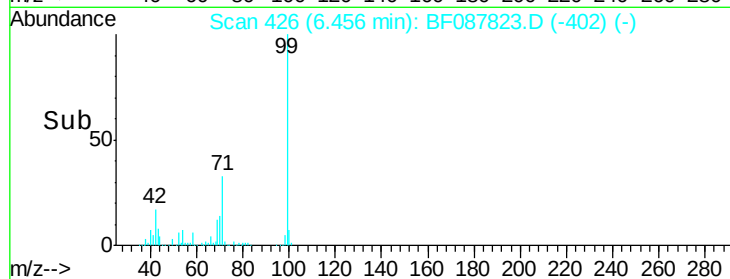
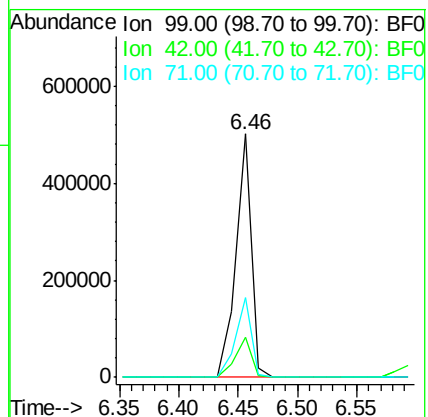
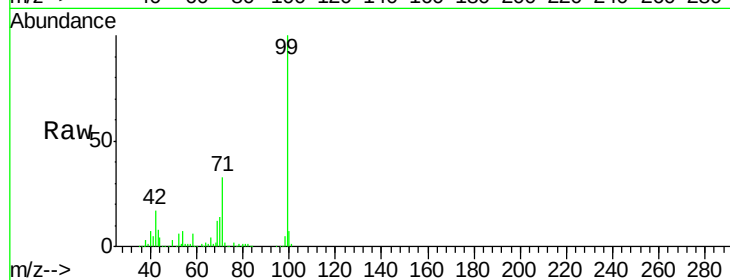
Tgt Ion: 99 Resp: 454848

Ion Ratio Lower Upper

99 100

42 16.6 12.2 18.2

71 33.0 23.4 35.0



#10

Phenol

Concen: Below Cal

RT: 6.47 min Scan# 427

Delta R.T. -0.02 min

Lab File: BF087823.D

Acq: 8 Jun 2016 21:47

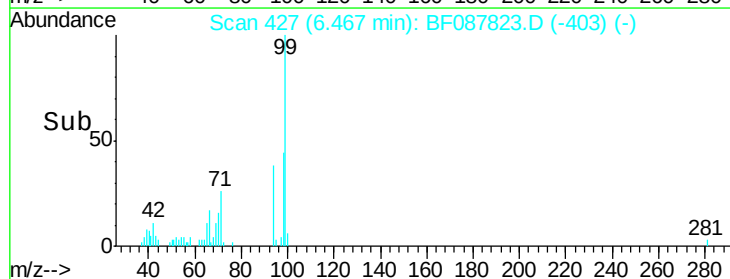
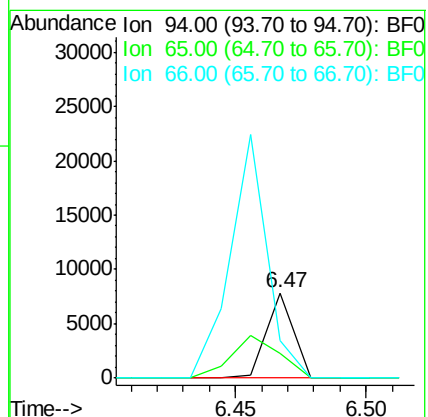
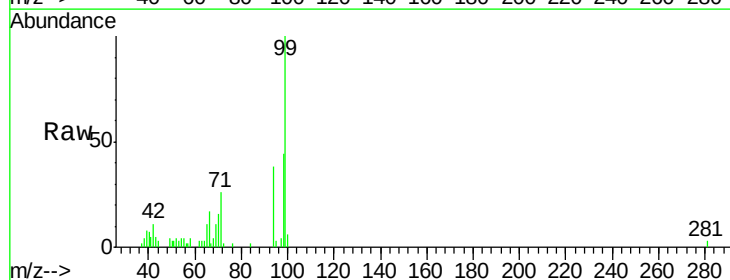
Tgt Ion: 94 Resp: 5589

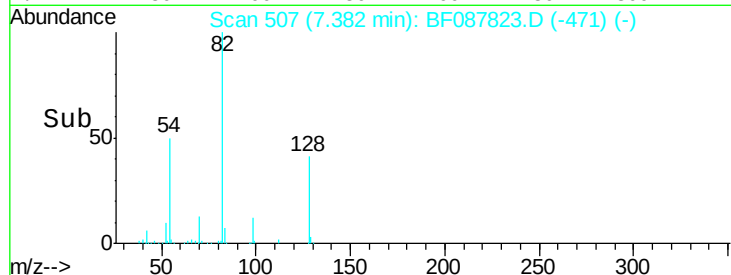
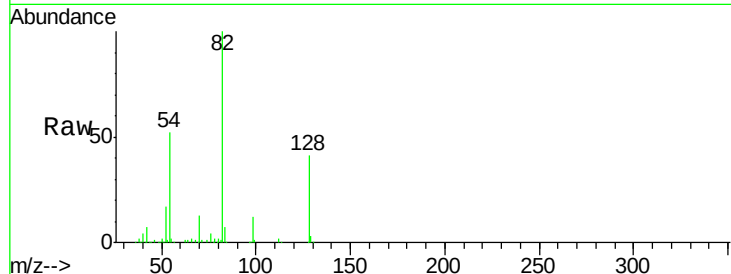
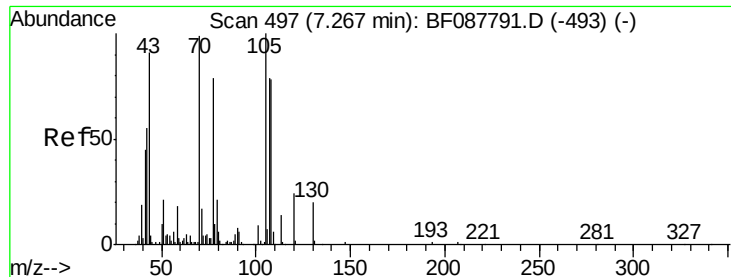
Ion Ratio Lower Upper

94 100

65 29.3 5.9 45.9

66 43.3 14.0 54.0

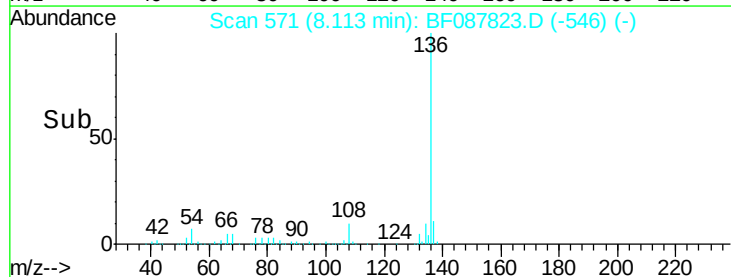
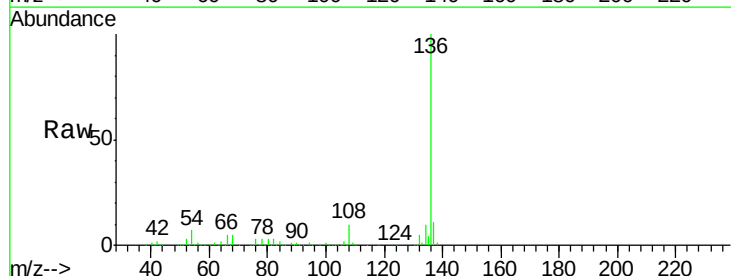
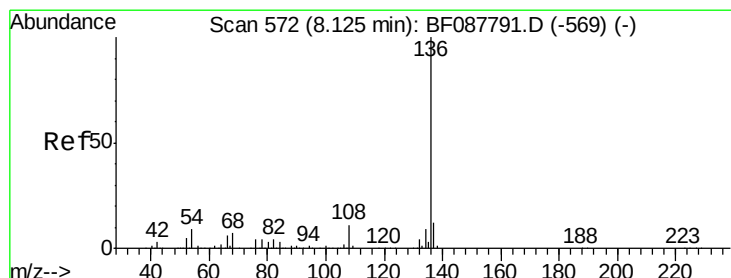
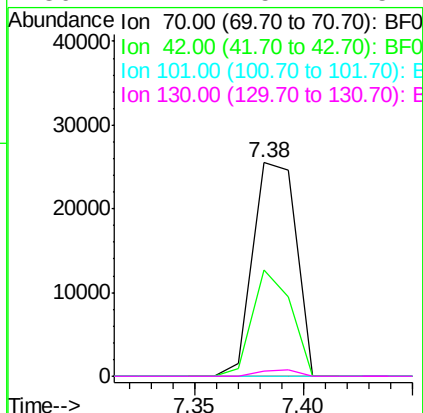




#19
n-Nitroso-di-n-propylamine
Concen: 5.68 ng
RT: 7.38 min Scan# 507
Delta R.T. 0.11 min
Lab File: BF087823.D
Acq: 8 Jun 2016 21:47

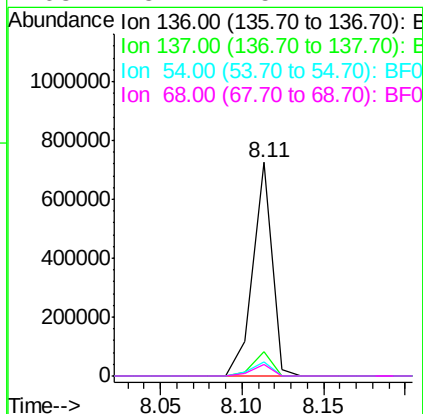
Instrument :
BNA_F
ClientSampleId :
SS-8

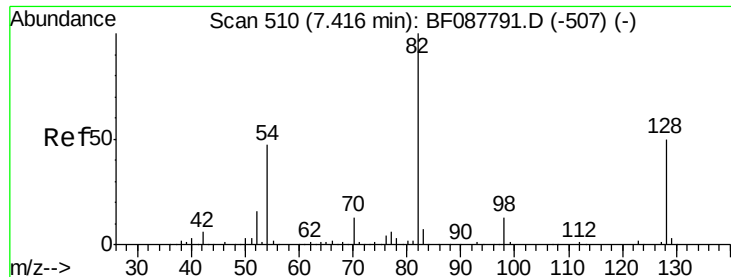
Tgt Ion:	70	Resp:	35480
Ion	Ratio	Lower	Upper
70	100		
42	50.0	49.6	74.4
101	0.0	7.1	10.7#
130	2.1	15.4	23.2#



#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.11 min Scan# 571
Delta R.T. -0.01 min
Lab File: BF087823.D
Acq: 8 Jun 2016 21:47

Tgt Ion:	136	Resp:	594043
Ion	Ratio	Lower	Upper
136	100		
137	11.2	9.1	13.7
54	6.7	6.6	10.0
68	5.4	5.1	7.7

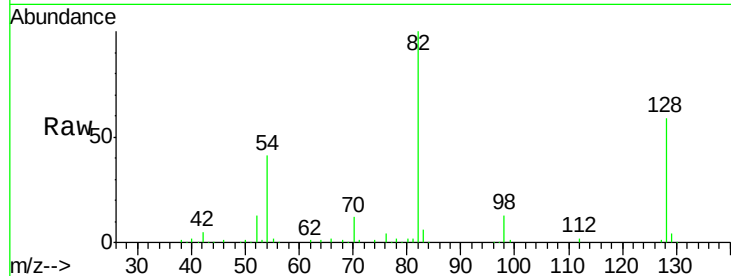




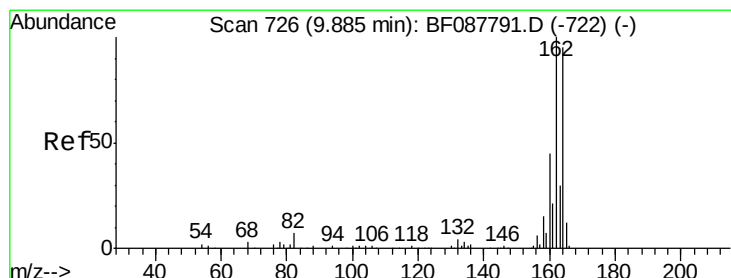
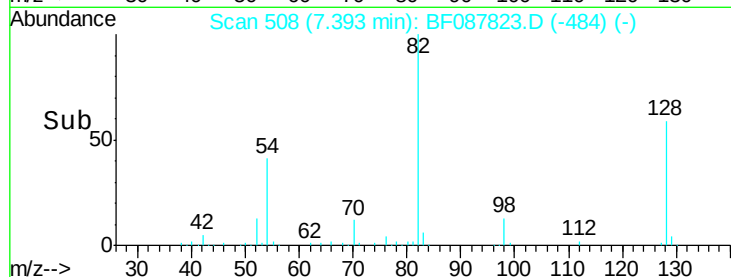
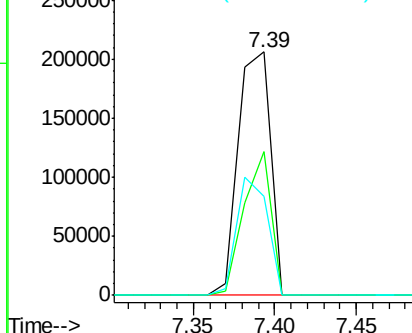
#23
Nitrobenzene-d5
Concen: 27.71 ng
RT: 7.39 min Scan# 508
Delta R.T. -0.02 min
Lab File: BF087823.D
Acq: 8 Jun 2016 21:47

Instrument :
BNA_F
ClientSampled :
SS-8

Tgt Ion: 82 Resp: 281922
Ion Ratio Lower Upper
82 100
128 59.0 35.9 53.9#
54 40.7 40.9 61.3#

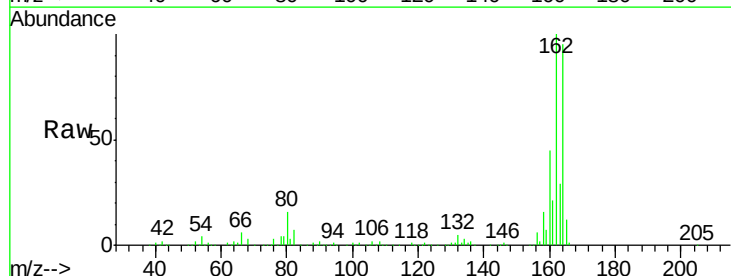


Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF0

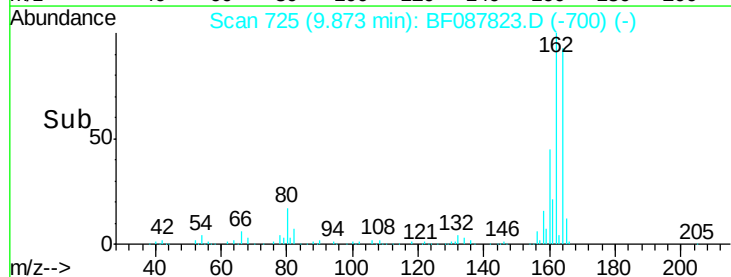
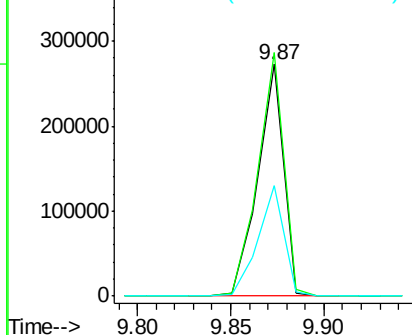


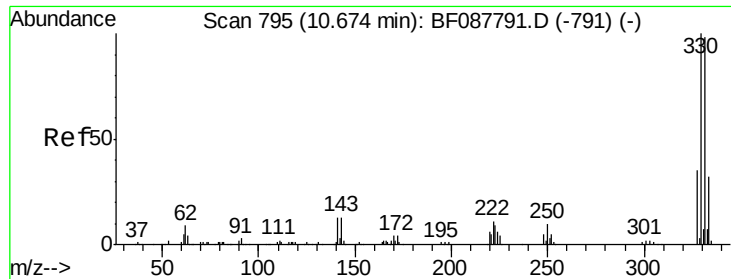
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.87 min Scan# 725
Delta R.T. -0.01 min
Lab File: BF087823.D
Acq: 8 Jun 2016 21:47

Tgt Ion:164 Resp: 258423
Ion Ratio Lower Upper
164 100
162 105.0 85.4 128.2
160 47.6 39.5 59.3



Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

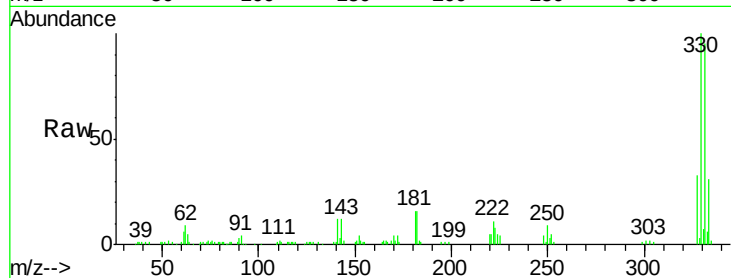




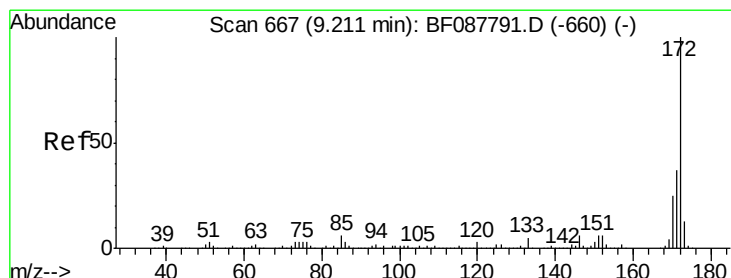
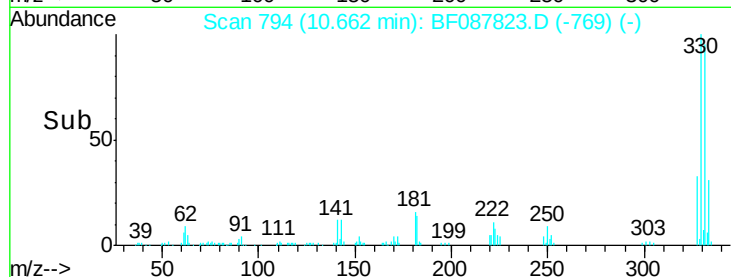
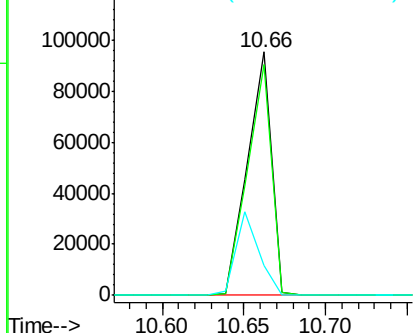
#41
 2,4,6-Tribromophenol
 Concen: 36.03 ng
 RT: 10.66 min Scan# 794
 Delta R.T. -0.01 min
 Lab File: BF087823.D
 Acq: 8 Jun 2016 21:47

Instrument :
 BNA_F
 ClientSampleId :
 SS-8

Tgt Ion:330 Resp: 98324
 Ion Ratio Lower Upper
 330 100
 332 94.6 0.0 0.0#
 141 32.3 0.0 0.0#

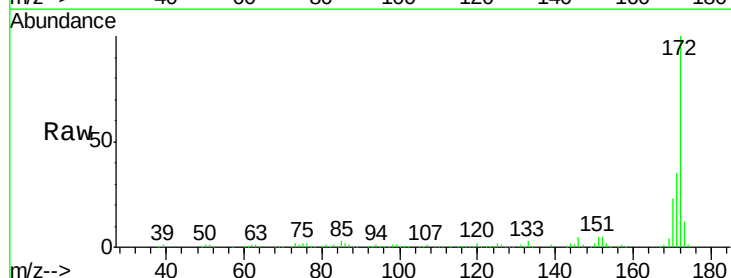


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

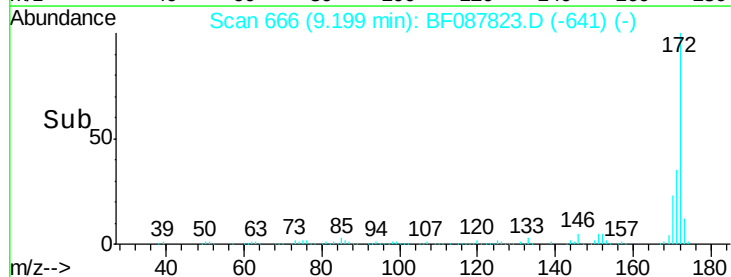
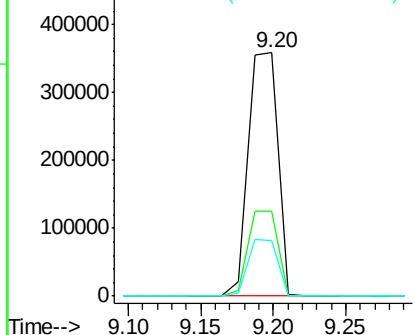


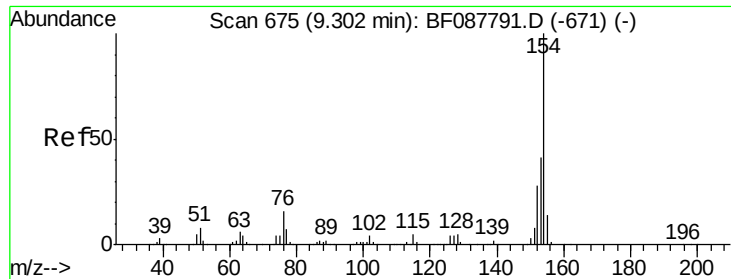
#44
 2-Fluorobiphenyl
 Concen: 27.01 ng
 RT: 9.20 min Scan# 666
 Delta R.T. -0.01 min
 Lab File: BF087823.D
 Acq: 8 Jun 2016 21:47

Tgt Ion:172 Resp: 506494
 Ion Ratio Lower Upper
 172 100
 171 34.8 28.6 43.0
 170 22.9 19.2 28.8



Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

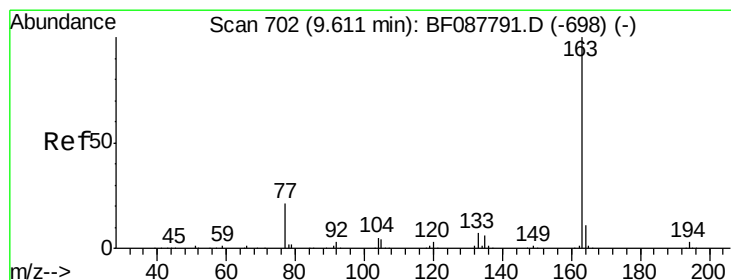
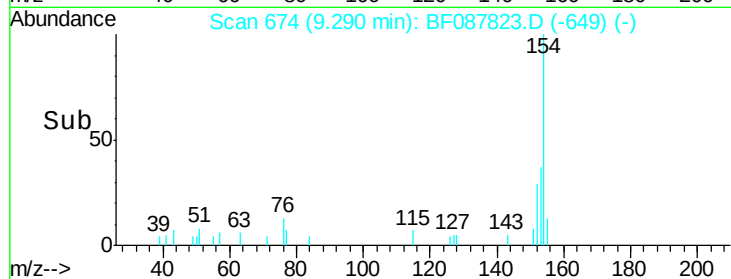
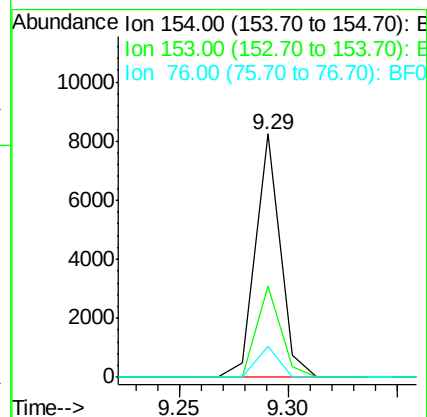
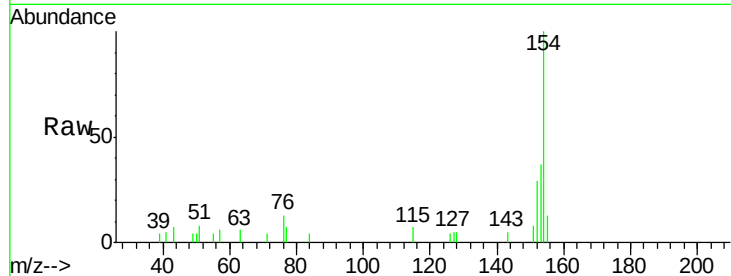




#45
1,1'-Biphenyl
Concen: Below Cal
RT: 9.29 min Scan# 674
Delta R.T. -0.01 min
Lab File: BF087823.D
Acq: 8 Jun 2016 21:47

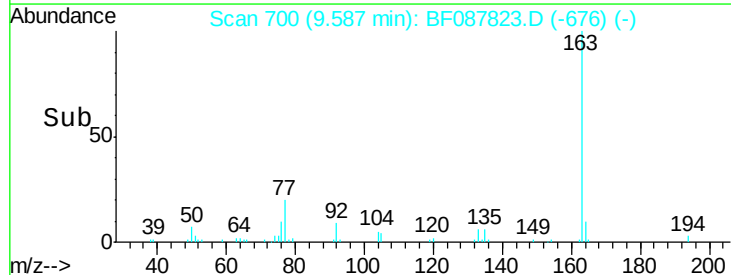
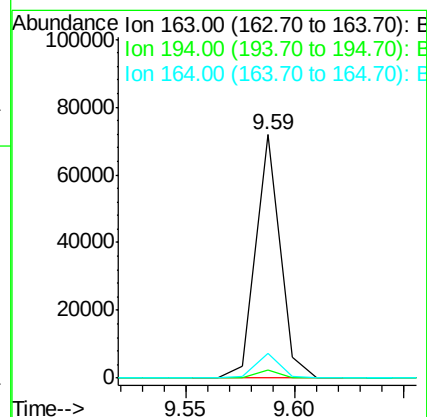
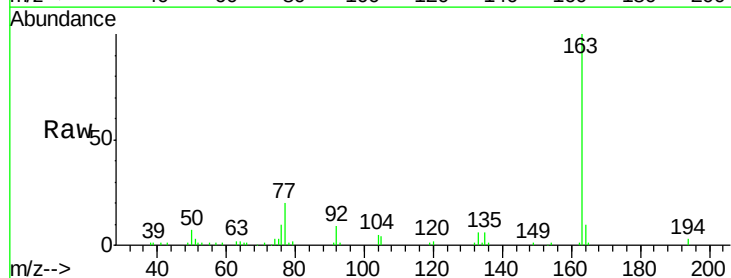
Instrument :
BNA_F
ClientSampled :
SS-8

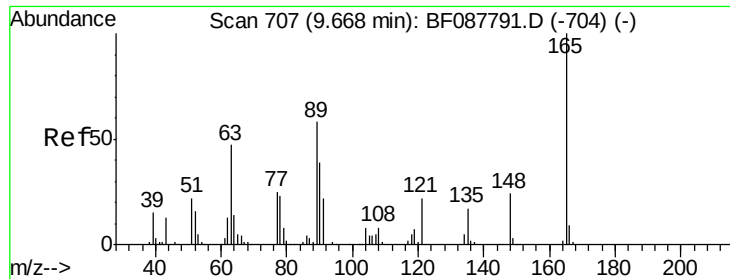
Tgt Ion:154 Resp: 6515
Ion Ratio Lower Upper
154 100
153 37.3 20.6 60.6
76 12.9 0.0 35.1



#49
Dimethylphthalate
Concen: 2.99 ng
RT: 9.59 min Scan# 700
Delta R.T. -0.02 min
Lab File: BF087823.D
Acq: 8 Jun 2016 21:47

Tgt Ion:163 Resp: 56059
Ion Ratio Lower Upper
163 100
194 3.2 2.8 4.2
164 10.1 8.3 12.5

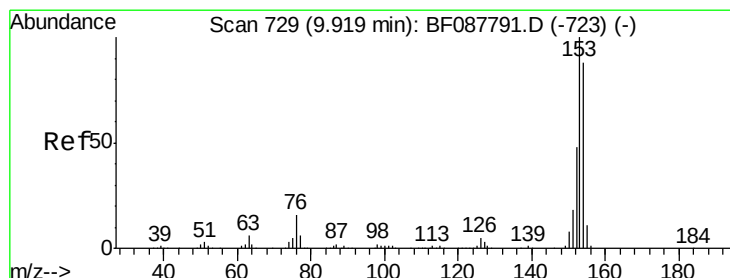
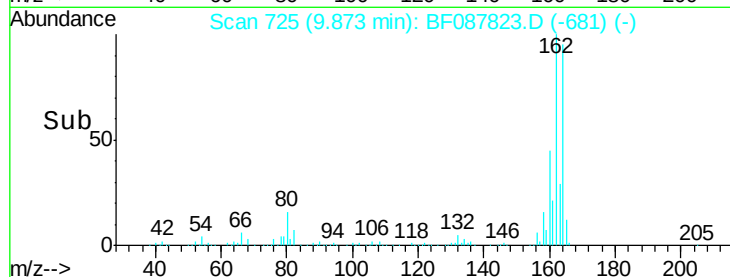
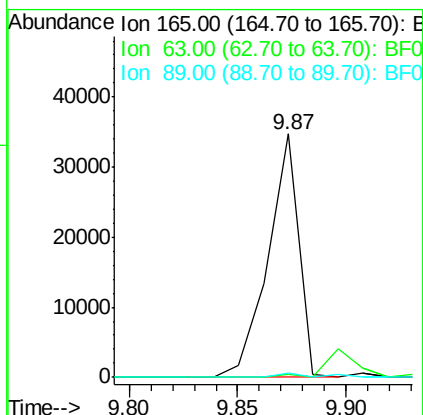
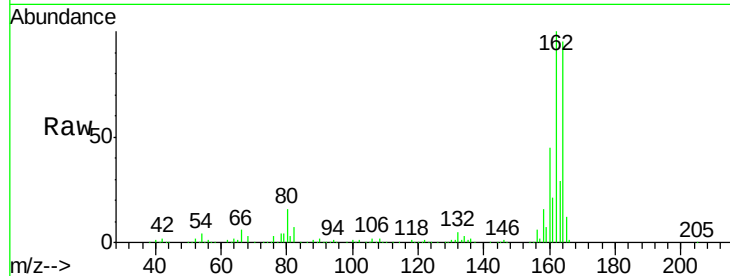




#50
 2,6-Dinitrotoluene
 Concen: 8.04 ng
 RT: 9.87 min Scan# 725
 Delta R.T. 0.21 min
 Lab File: BF087823.D
 Acq: 8 Jun 2016 21:47

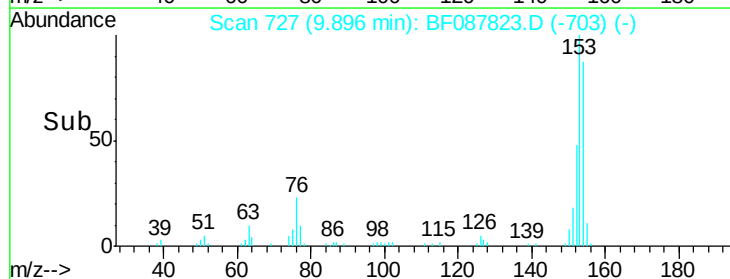
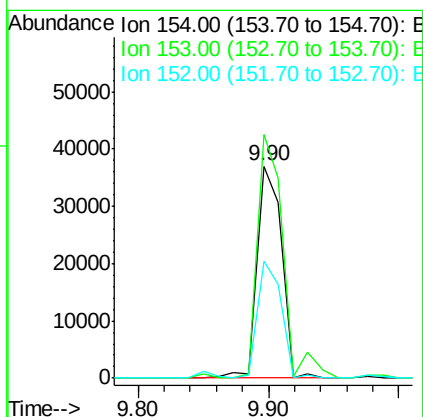
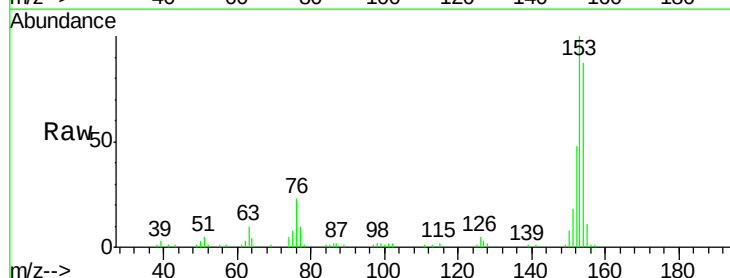
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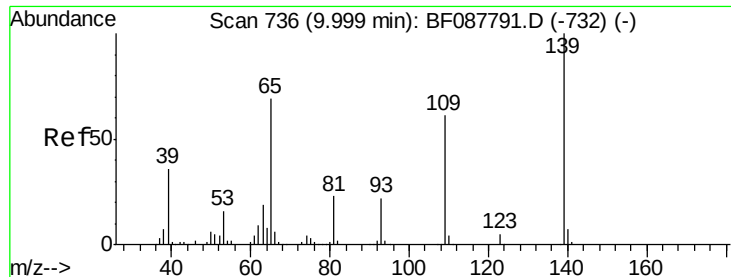
Tgt Ion:165 Resp: 34479
 Ion Ratio Lower Upper
 165 100
 63 1.4 28.1 42.1#
 89 1.6 32.2 48.2#



#51
 Acenaphthene
 Concen: 2.92 ng
 RT: 9.90 min Scan# 727
 Delta R.T. -0.02 min
 Lab File: BF087823.D
 Acq: 8 Jun 2016 21:47

Tgt Ion:154 Resp: 48402
 Ion Ratio Lower Upper
 154 100
 153 115.1 89.5 134.3
 152 55.3 42.7 64.1





#55

4-Nitrophenol

Concen: 4.16 ng

RT: 10.07 min Scan# 742

Delta R.T. 0.07 min

Lab File: BF087823.D

Acq: 8 Jun 2016 21:47

Instrument :

BNA_F

ClientSampleId :

SS-8

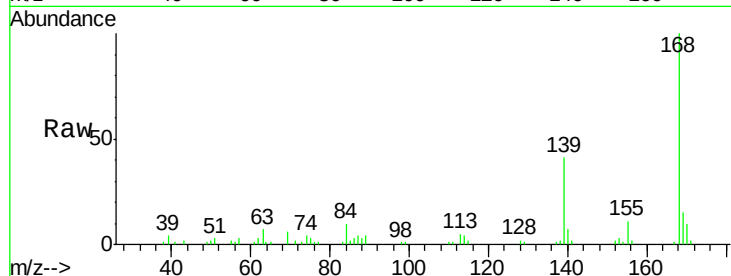
Tgt Ion:139 Resp: 15963

Ion Ratio Lower Upper

139 100

109 0.0 48.9 88.9#

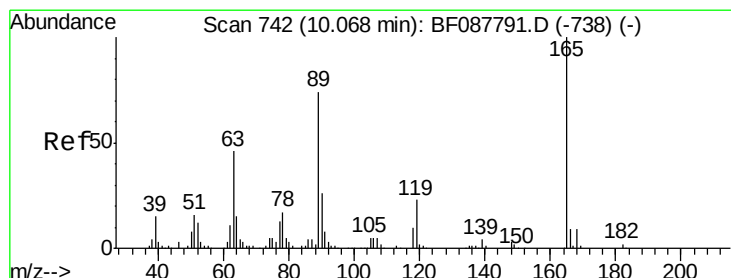
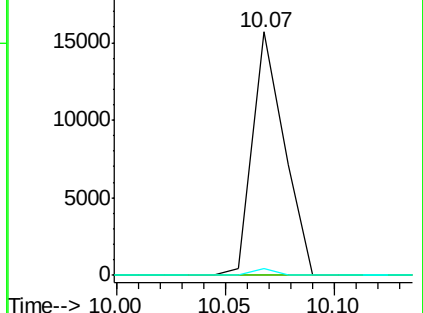
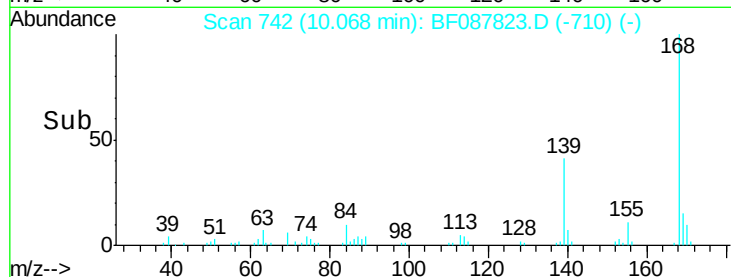
65 2.5 84.9 124.9#



Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF0



#56

2,4-Dinitrotoluene

Concen: 6.26 ng

RT: 9.87 min Scan# 725

Delta R.T. -0.19 min

Lab File: BF087823.D

Acq: 8 Jun 2016 21:47

Tgt Ion:165 Resp: 34479

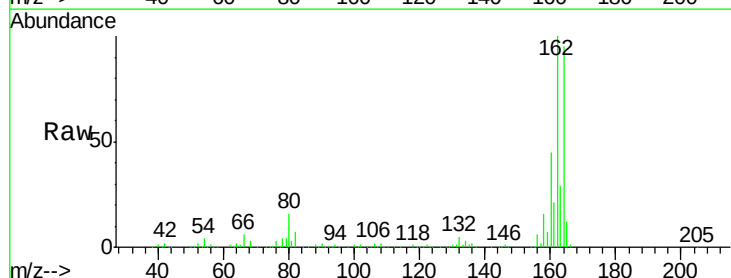
Ion Ratio Lower Upper

165 100

63 1.4 22.0 33.0#

89 1.6 41.1 61.7#

182 0.0 2.0 3.0#

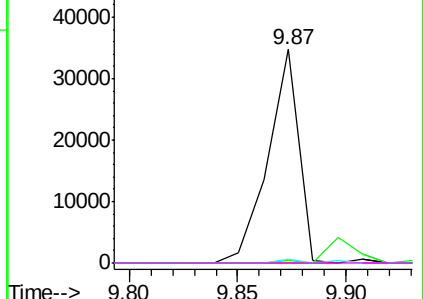
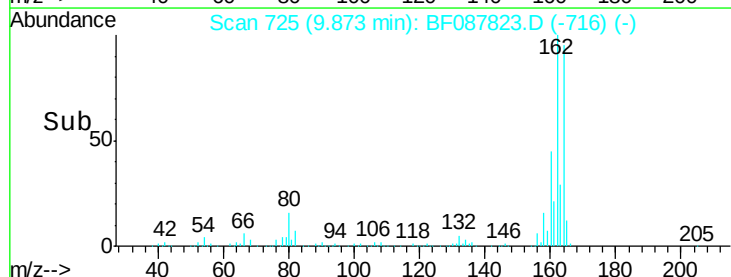


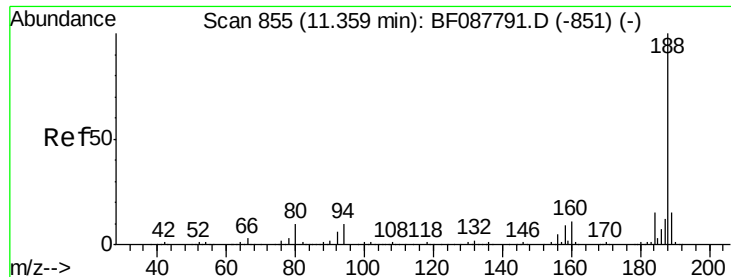
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E

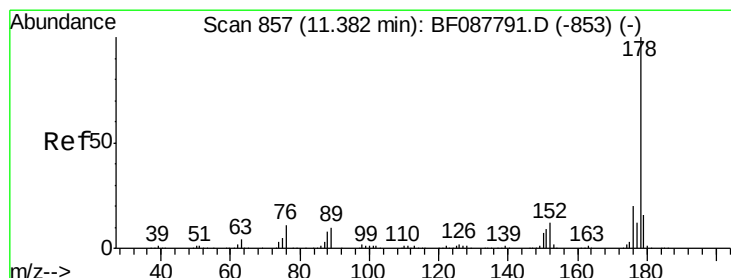
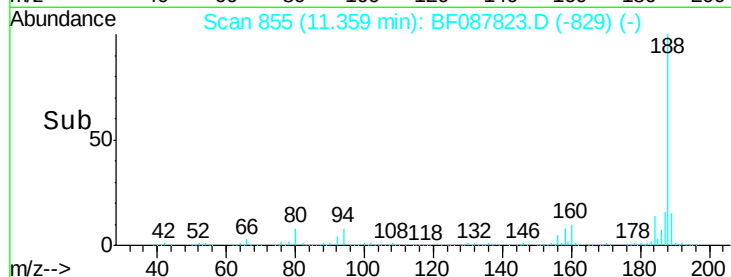
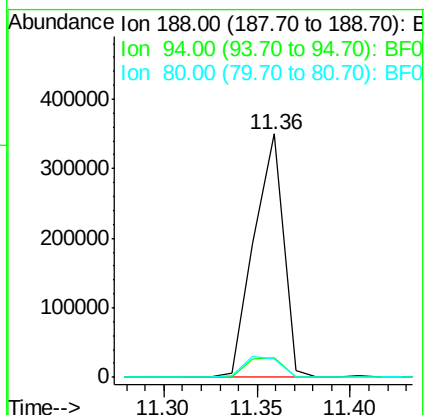
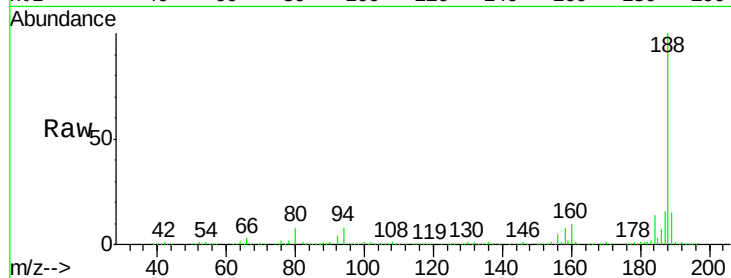




#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.36 min Scan# 855
Delta R.T. -0.00 min
Lab File: BF087823.D
Acq: 8 Jun 2016 21:47

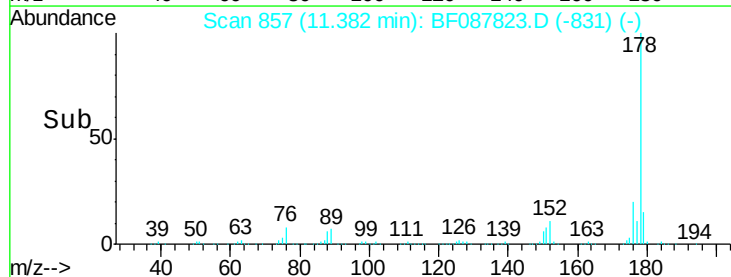
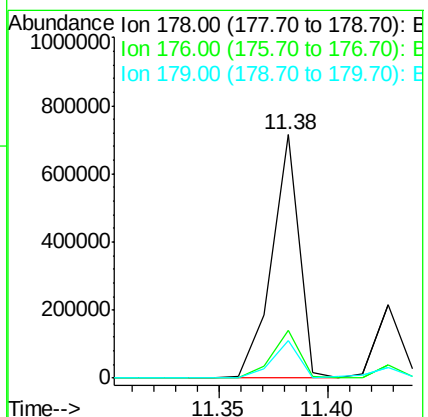
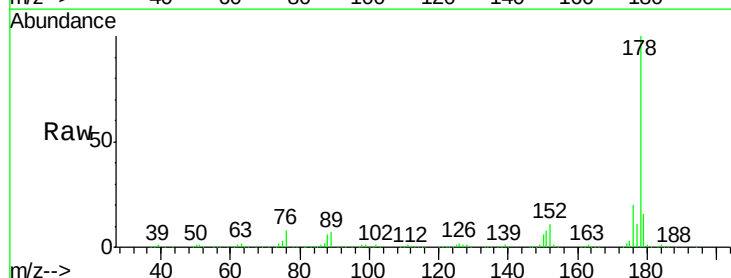
Instrument :
BNA_F
ClientSampleId :
SS-8

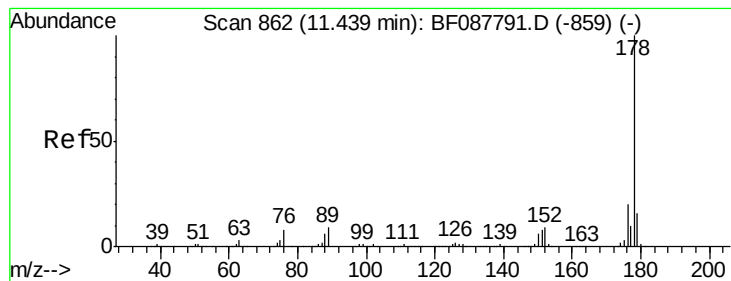
Tgt Ion:188 Resp: 382913
Ion Ratio Lower Upper
188 100
94 7.8 9.0 13.6#
80 7.7 10.0 15.0#



#70
Phenanthrene
Concen: 31.54 ng
RT: 11.38 min Scan# 857
Delta R.T. -0.00 min
Lab File: BF087823.D
Acq: 8 Jun 2016 21:47

Tgt Ion:178 Resp: 633648
Ion Ratio Lower Upper
178 100
176 19.7 15.8 23.6
179 15.5 13.0 19.4





#71

Anthracene

Concen: 8.83 ng

RT: 11.43 min Scan# 861

Delta R.T. -0.01 min

Lab File: BF087823.D

Acq: 8 Jun 2016 21:47

Instrument :

BNA_F

ClientSampleId :

SS-8

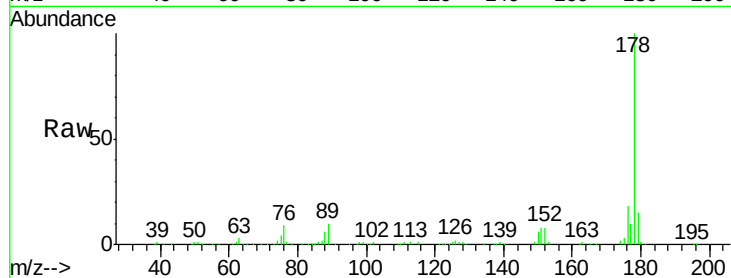
Tgt Ion:178 Resp: 178872

Ion Ratio Lower Upper

178 100

176 18.3 15.6 23.4

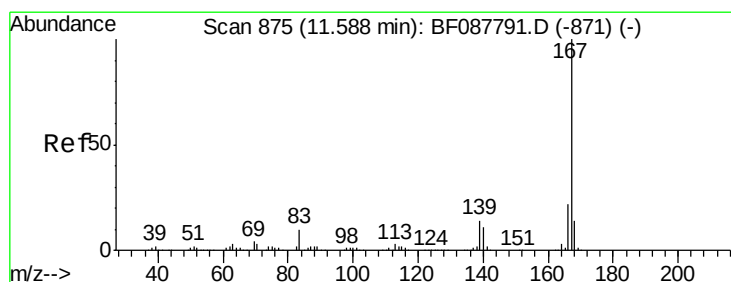
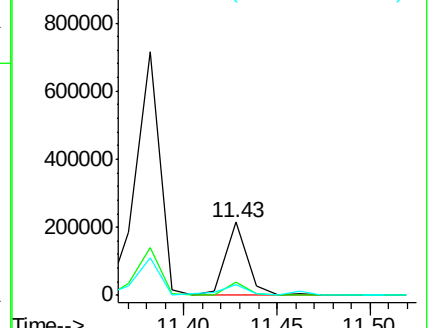
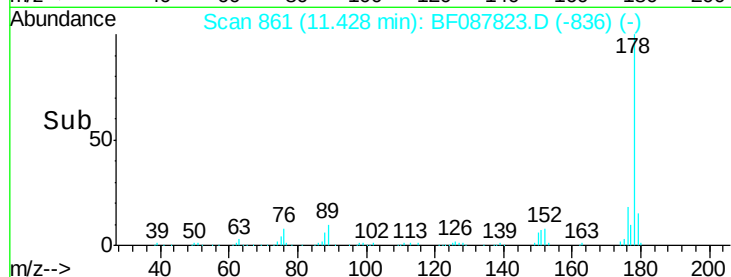
179 15.2 12.8 19.2



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: 2.46 ng

RT: 11.59 min Scan# 875

Delta R.T. -0.00 min

Lab File: BF087823.D

Acq: 8 Jun 2016 21:47

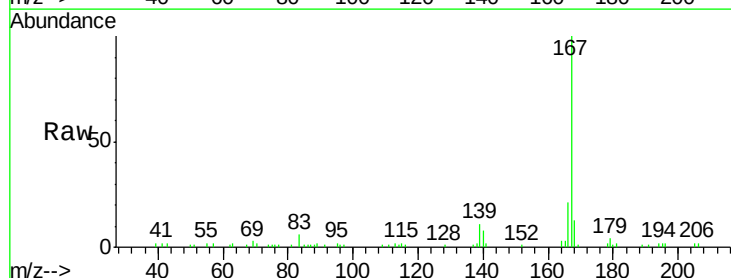
Tgt Ion:167 Resp: 46746

Ion Ratio Lower Upper

167 100

166 21.3 17.8 26.6

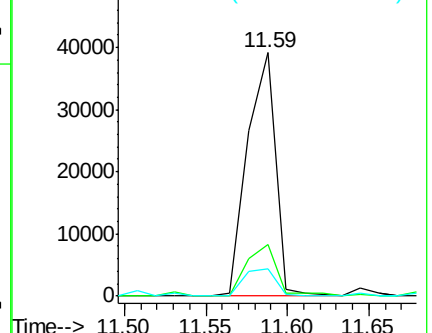
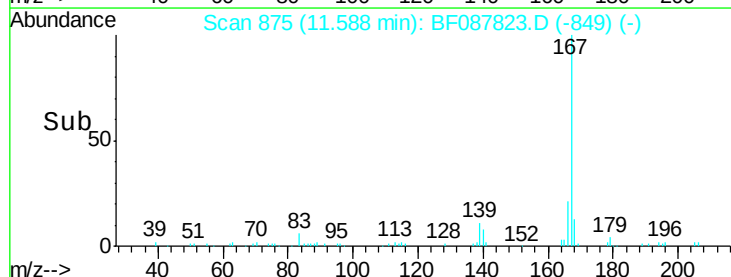
139 11.1 11.2 16.8#

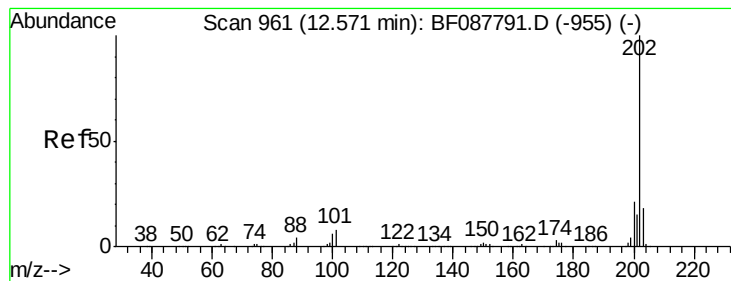


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E

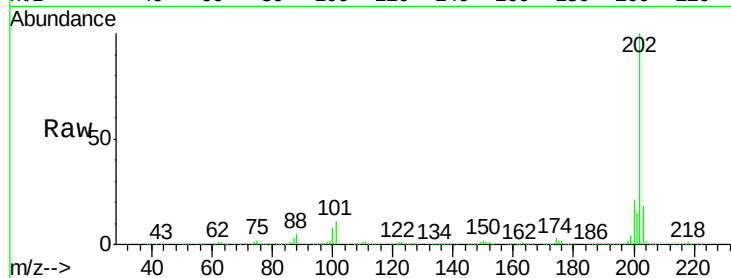




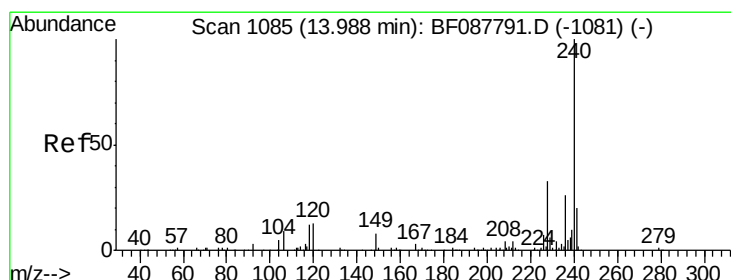
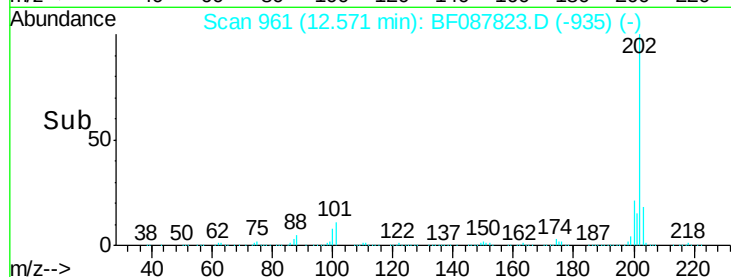
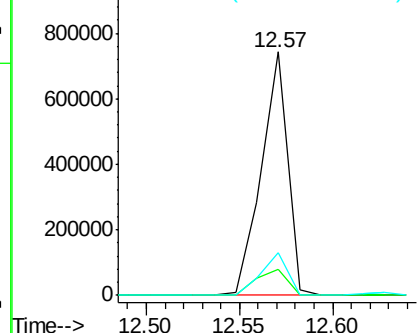
#74
 Fluoranthene
 Concen: 33.83 ng
 RT: 12.57 min Scan# 961
 Delta R.T. -0.00 min
 Lab File: BF087823.D
 Acq: 8 Jun 2016 21:47

Instrument :
 BNA_F
 ClientSampleId :
 SS-8

Tgt Ion	Ratio	Lower	Upper
202	100		
101	10.5	0.0	33.1
203	17.8	0.0	38.1

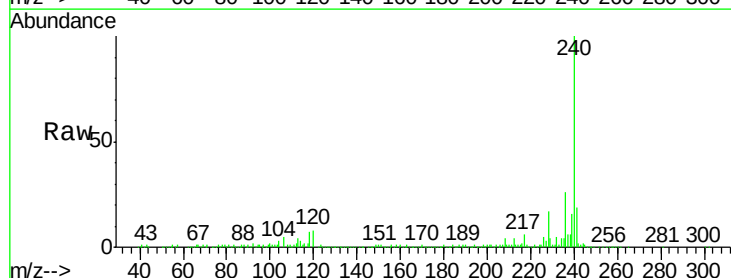


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

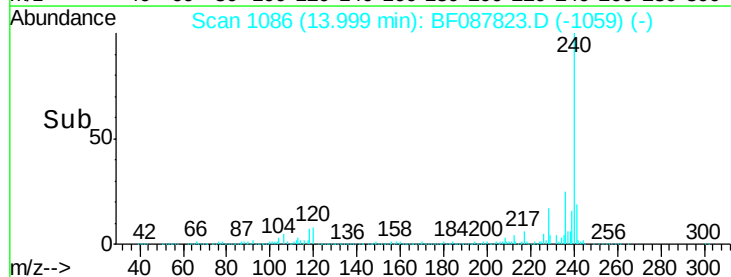
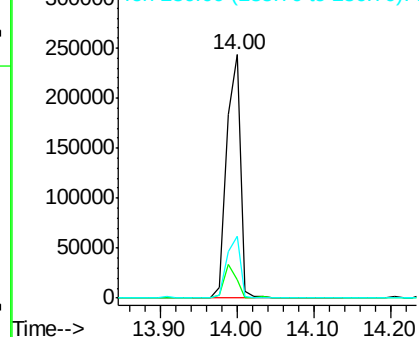


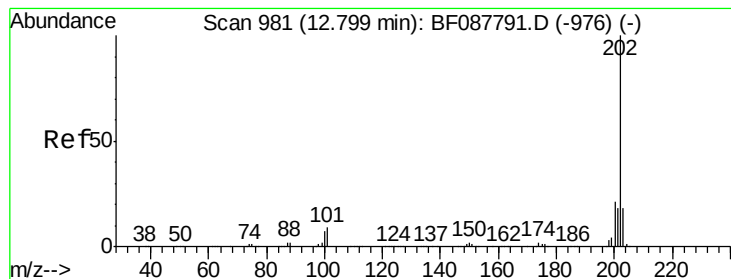
#75
 Chrysene-d12
 Concen: 20.00 ng
 RT: 14.00 min Scan# 1086
 Delta R.T. 0.01 min
 Lab File: BF087823.D
 Acq: 8 Jun 2016 21:47

Tgt Ion	Ratio	Lower	Upper
240	100		
120	7.8	6.8	10.2
236	25.7	20.2	30.2



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

Pyrene

Concen: 27.60 ng

RT: 12.80 min Scan# 981

Delta R.T. -0.00 min

Lab File: BF087823.D

Acq: 8 Jun 2016 21:47

Instrument :

BNA_F

ClientSampleId :

SS-8

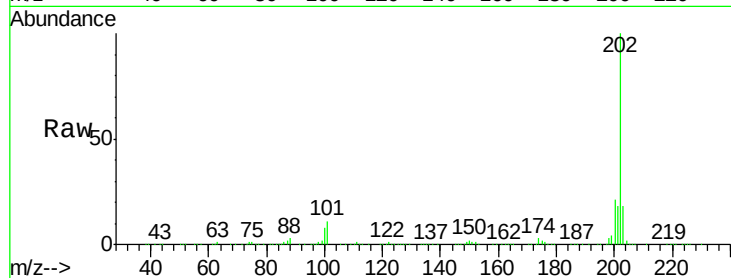
Tgt Ion:202 Resp: 634750

Ion Ratio Lower Upper

202 100

200 21.2 17.4 26.2

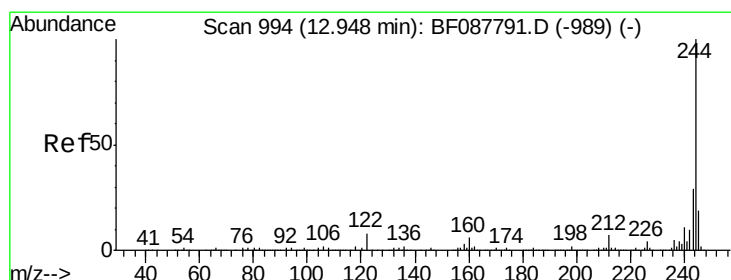
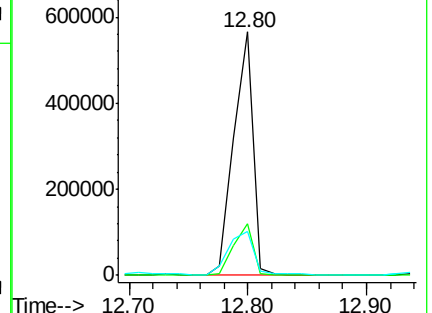
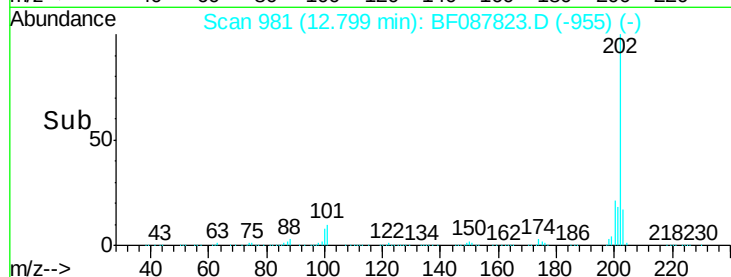
203 17.8 14.5 21.7



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: 25.02 ng

RT: 12.95 min Scan# 994

Delta R.T. -0.00 min

Lab File: BF087823.D

Acq: 8 Jun 2016 21:47

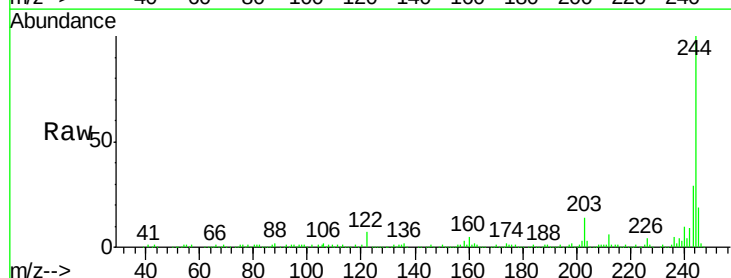
Tgt Ion:244 Resp: 340738

Ion Ratio Lower Upper

244 100

212 6.1 6.0 9.0

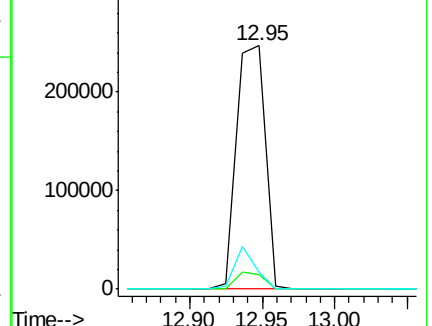
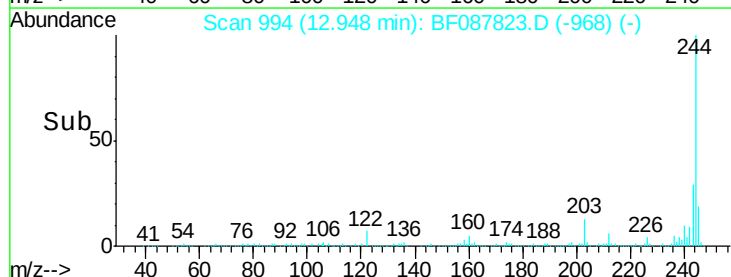
122 7.1 11.2 16.8#

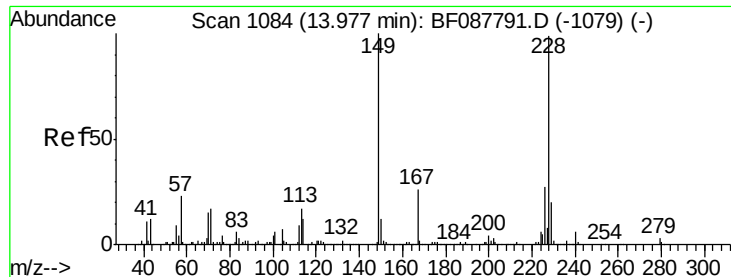


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 17.26 ng

RT: 13.99 min Scan# 1085

Delta R.T. 0.01 min

Lab File: BF087823.D

Acq: 8 Jun 2016 21:47

Instrument :

BNA_F

ClientSampleId :

SS-8

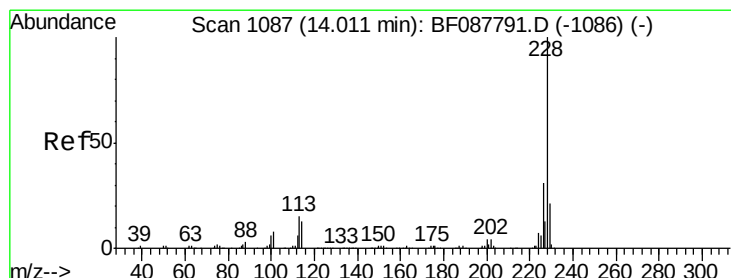
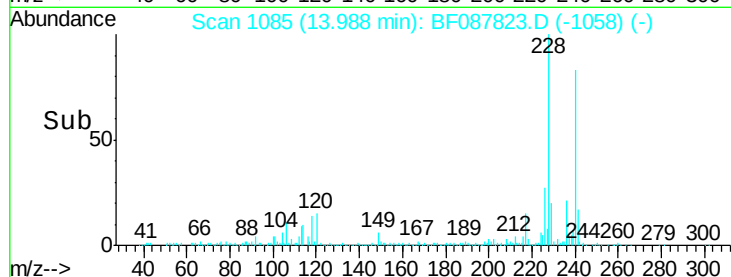
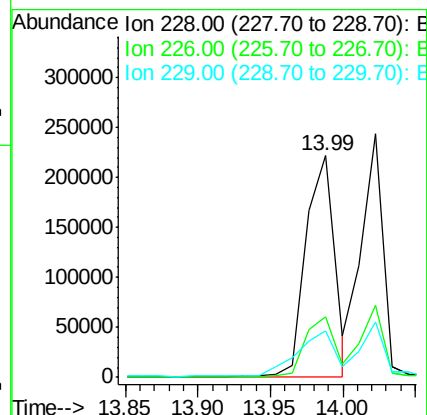
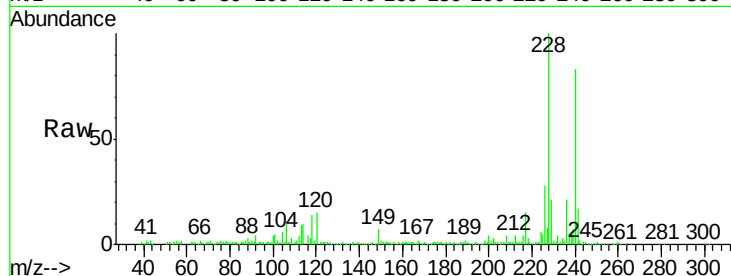
Tgt Ion:228 Resp: 304878

Ion Ratio Lower Upper

228 100

226 27.5 22.3 33.5

229 20.8 16.0 24.0



#82

Chrysene

Concen: 15.04 ng

RT: 14.02 min Scan# 1088

Delta R.T. 0.01 min

Lab File: BF087823.D

Acq: 8 Jun 2016 21:47

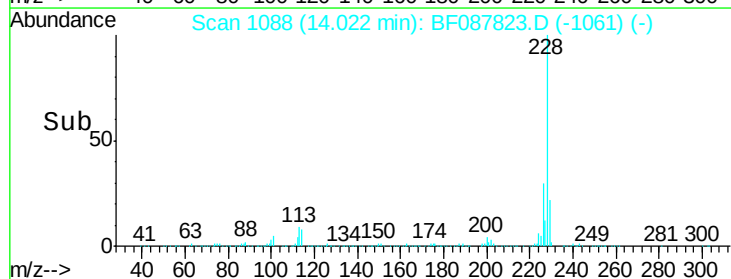
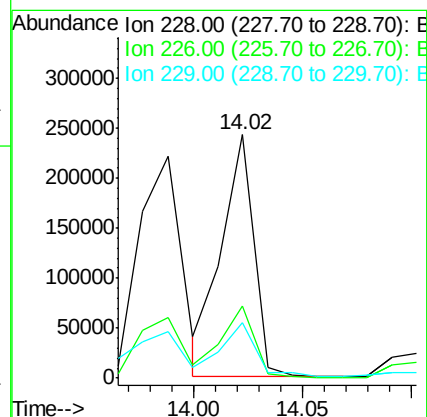
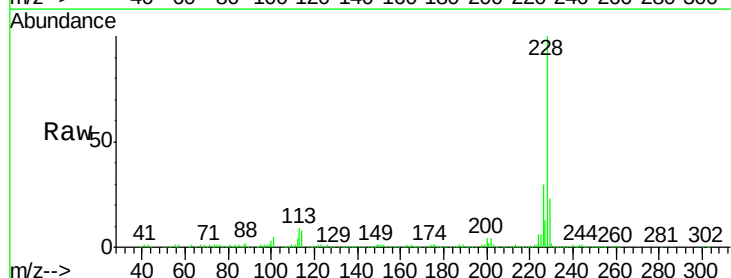
Tgt Ion:228 Resp: 249950

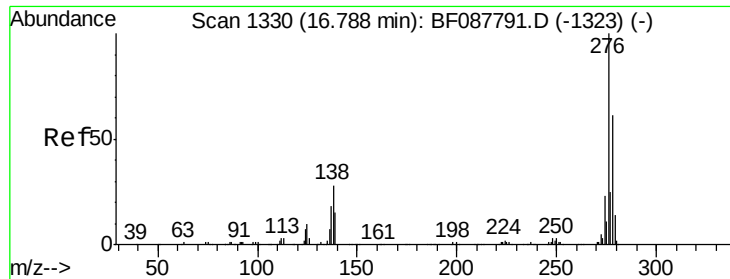
Ion Ratio Lower Upper

228 100

226 29.9 25.4 38.2

229 22.6 16.3 24.5





#85

Indeno(1,2,3-cd)pyrene

Concen: 6.27 ng

RT: 16.81 min Scan# 1332

Delta R.T. 0.02 min

Lab File: BF087823.D

Acq: 8 Jun 2016 21:47

Instrument :

BNA_F

ClientSampleId :

SS-8

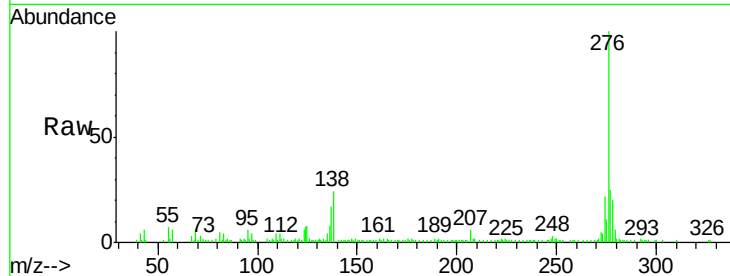
Tgt Ion:276 Resp: 96838

Ion Ratio Lower Upper

276 100

138 25.6 0.0 0.0#

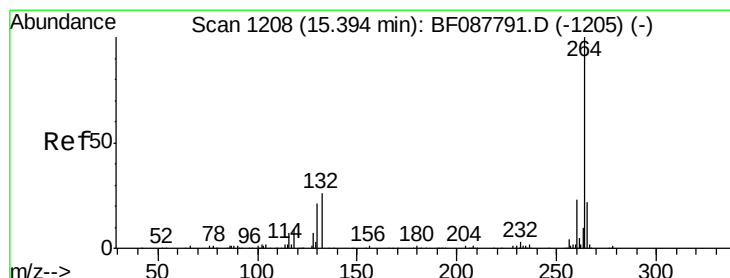
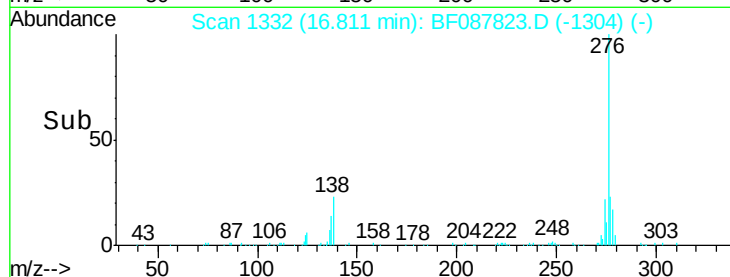
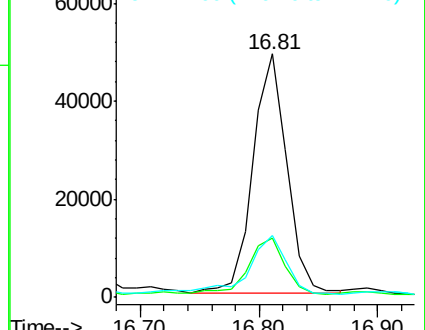
277 28.8 0.0 0.0#



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

Perylene-d12

Concen: 20.00 ng

RT: 15.43 min Scan# 1211

Delta R.T. 0.03 min

Lab File: BF087823.D

Acq: 8 Jun 2016 21:47

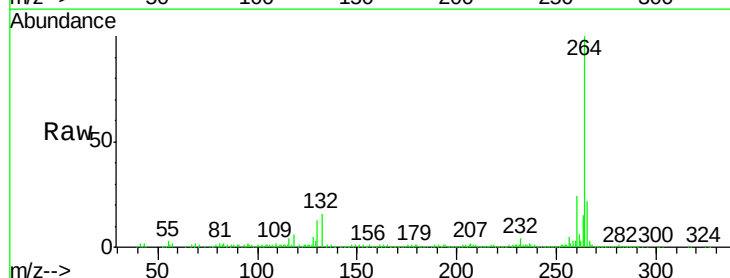
Tgt Ion:264 Resp: 263739

Ion Ratio Lower Upper

264 100

260 24.1 19.2 28.8

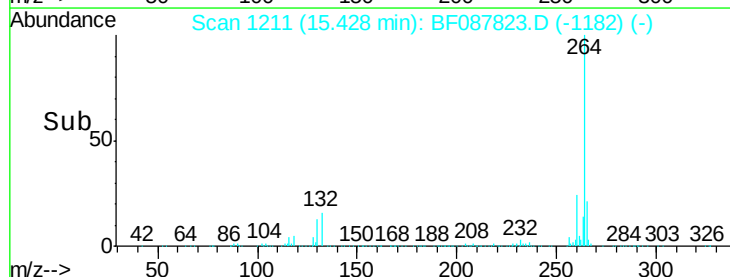
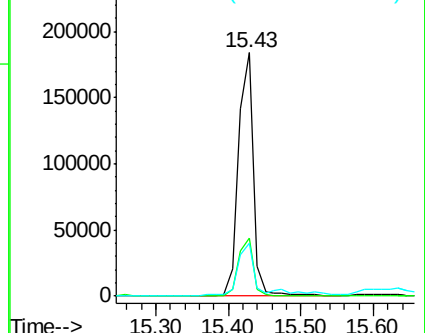
265 21.7 16.9 25.3

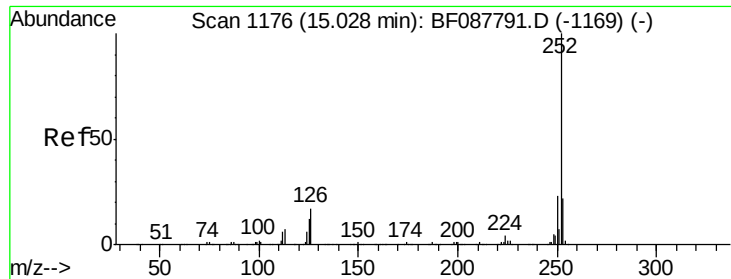


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 19.89 ng

RT: 15.02 min Scan# 1175

Delta R.T. 0.02 min

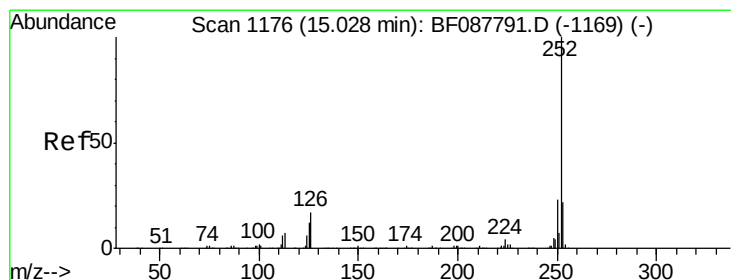
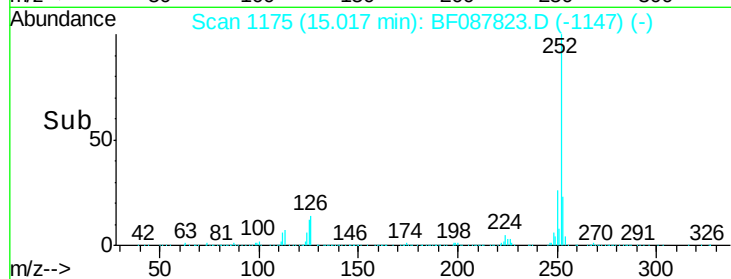
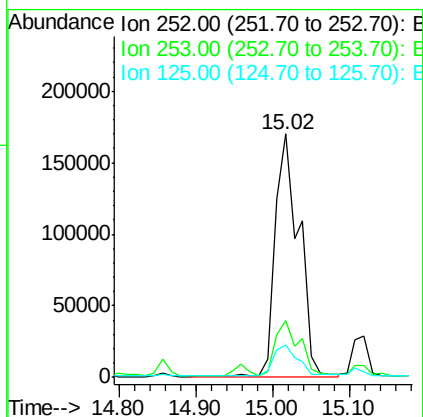
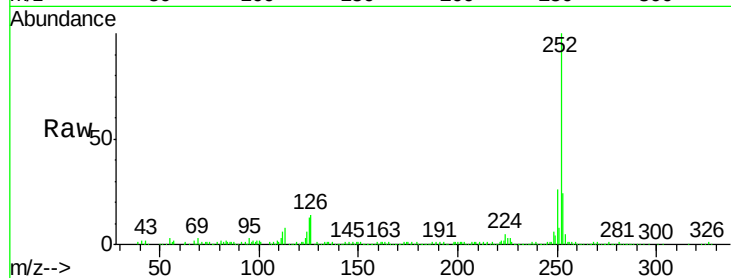
Lab File: BF087823.D

Acq: 8 Jun 2016 21:47

Instrument :
BNA_F
ClientSampleId :
SS-8

Tgt Ion:252 Resp: 365631

Ion	Ratio	Lower	Upper
252	100		
253	23.6	17.4	26.2
125	13.2	7.1	10.7#



#88

Benzo(k)fluoranthene

Concen: 26.37 ng

RT: 15.02 min Scan# 1175

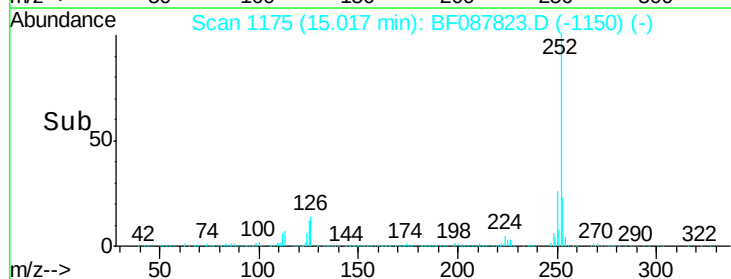
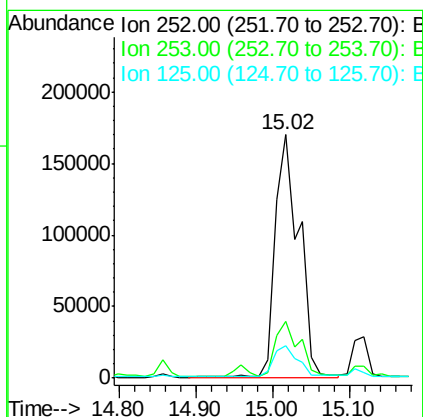
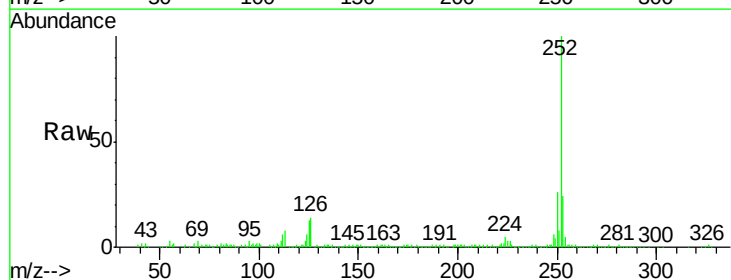
Delta R.T. -0.01 min

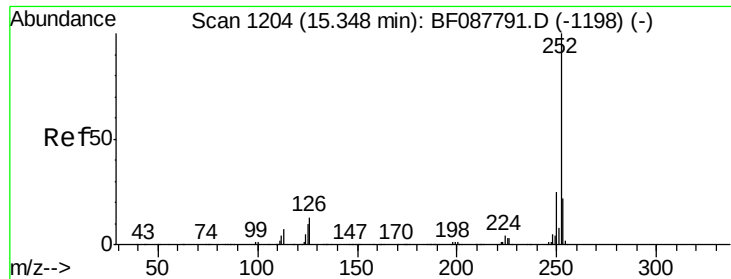
Lab File: BF087823.D

Acq: 8 Jun 2016 21:47

Tgt Ion:252 Resp: 365631

Ion	Ratio	Lower	Upper
252	100		
253	23.6	18.0	27.0
125	13.2	11.2	16.8





#89

Benzo(a)pyrene

Concen: 12.85 ng

RT: 15.36 min Scan# 1205

Delta R.T. 0.01 min

Lab File: BF087823.D

Acq: 8 Jun 2016 21:47

Instrument :

BNA_F

ClientSampleId :

SS-8

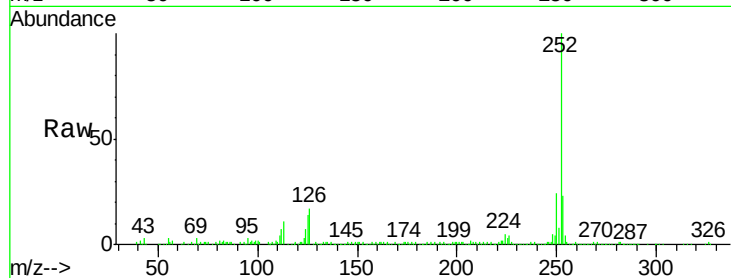
Tgt Ion:252 Resp: 191146

Ion Ratio Lower Upper

252 100

253 23.4 17.9 26.9

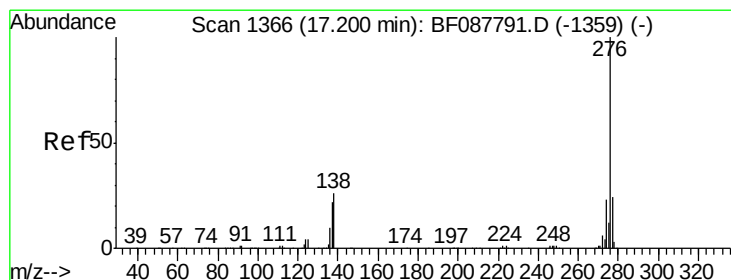
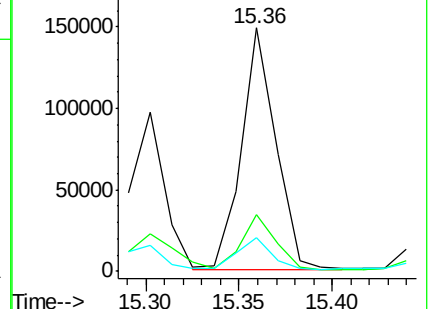
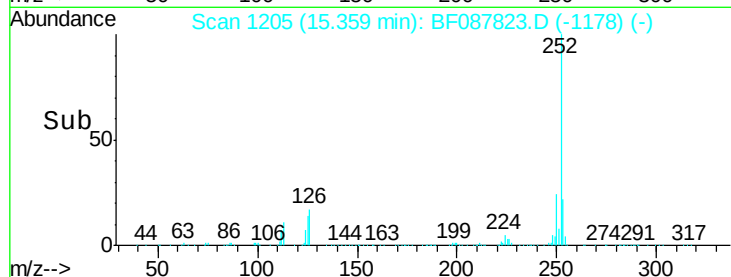
125 14.0 12.5 18.7



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#91

Benzo(g,h,i)perylene

Concen: 6.20 ng

RT: 17.22 min Scan# 1368

Delta R.T. 0.02 min

Lab File: BF087823.D

Acq: 8 Jun 2016 21:47

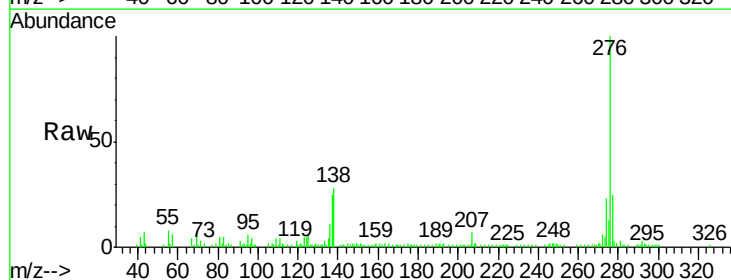
Tgt Ion:276 Resp: 88052

Ion Ratio Lower Upper

276 100

277 24.6 18.9 28.3

138 27.7 21.4 32.2



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

