

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051916\
 Data File : BF087190.D
 Acq On : 19 May 2016 16:42
 Operator : UM/SJ
 Sample : H3119-01DL 100X
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: May 19 18:11:57 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF051716.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 17 16:55:01 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.56	152	126956	20.00	ng	-0.05
21) Naphthalene-d8	7.85	136	547155	20.00	ng	-0.05
38) Acenaphthene-d10	9.60	164	271809	20.00	ng	-0.05
63) Phenanthrene-d10	11.07	188	502539	20.00	ng	-0.05
75) Chrysene-d12	13.70	240	403311	20.00	ng	-0.06
86) Perylene-d12	15.05	264	293752	20.00	ng	-0.06

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	0.00	112	0	0.00	ng	
7) Phenol-d6	6.27	99	7096	0.70	ng	-0.01
23) Nitrobenzene-d5	7.16	82	8010	0.73	ng	-0.02
41) 2,4,6-Tribromophenol	10.40	330	214	0.07	ng	-0.05
44) 2-Fluorobiphenyl	8.94	172	18281	1.11	ng	-0.05
78) Terphenyl-d14	12.66	244	15996	0.90	ng	-0.05

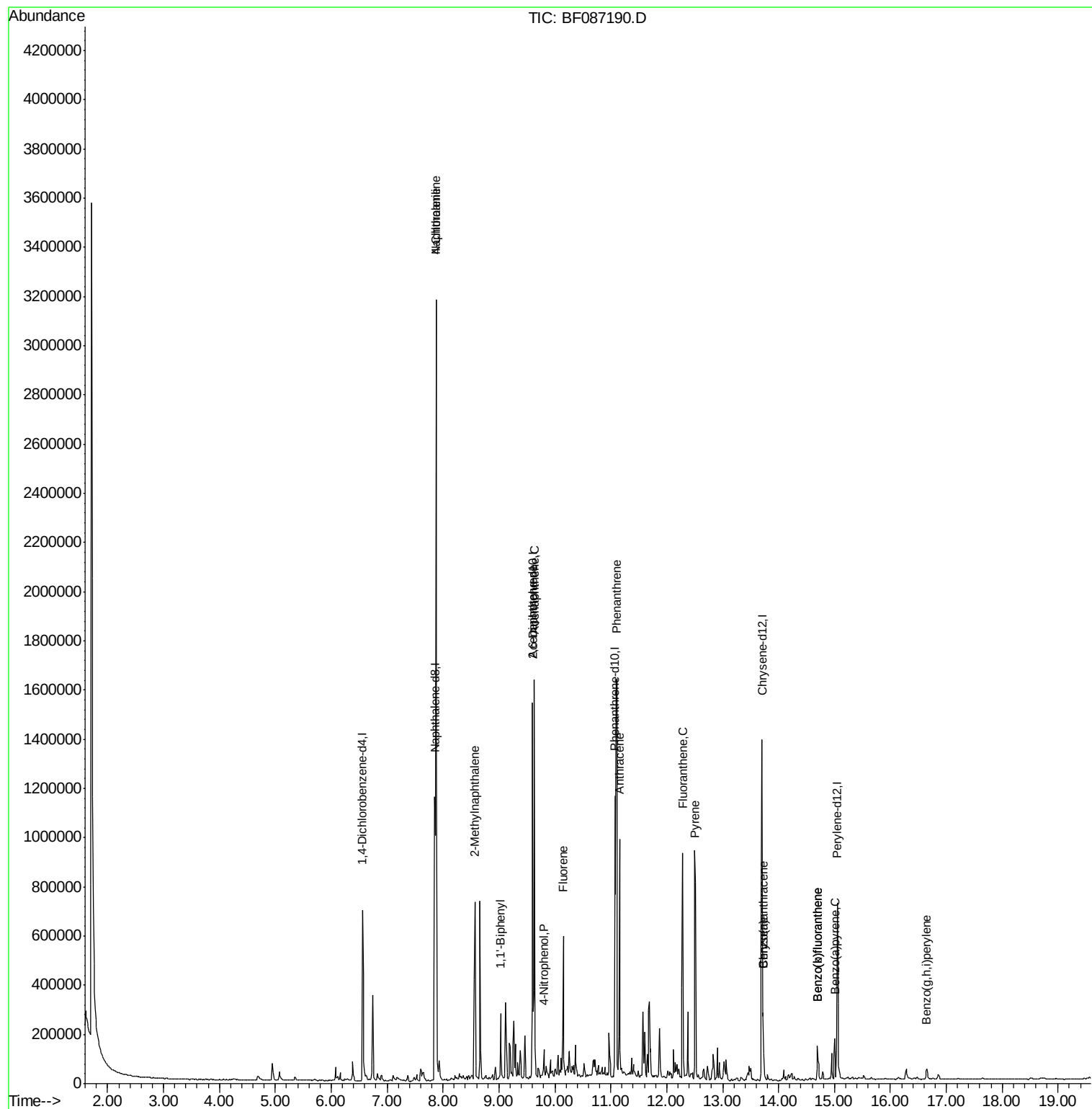
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
31) Naphthalene	7.87	128	1618873	60.55	ng	98
33) 4-Chloroaniline	7.87	127	220581	19.85	ng	# 34
37) 2-Methylnaphthalene	8.57	142	241975	14.15	ng	99
45) 1,1'-Biphenyl	9.03	154	89801	3.98	ng	96
50) 2,6-Dinitrotoluene	9.60	165	40050	8.90	ng	# 22
51) Acenaphthene	9.63	154	341478	20.69	ng	99
55) 4-Nitrophenol	9.80	139	11291	7.99	ng	# 21
57) Fluorene	10.15	166	182790	10.66	ng	99
70) Phenanthrene	11.11	178	932932	34.23	ng	99
71) Anthracene	11.15	178	371980	13.49	ng	99
74) Fluoranthene	12.29	202	400092	14.65	ng	92
77) Pvrene	12.51	202	535041	18.36	ng	98
80) Benzo(a)anthracene	13.73	228	92279	3.96	ng	96
82) Chrysene	13.73	228	92316	4.09	ng	98
87) Benzo(b)fluoranthene	14.70	252	91103	4.67	ng	99
88) Benzo(k)fluoranthene	14.70	252	91103	6.28	ng	99
89) Benzo(a)pvrene	15.01	252	78416	4.81	ng	98
91) Benzo(g,h,i)perylene	16.65	276	36693	2.65	ng	94

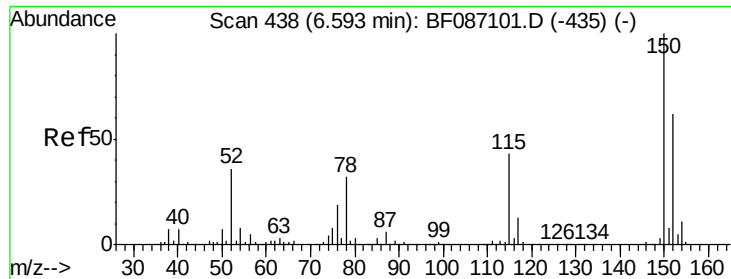
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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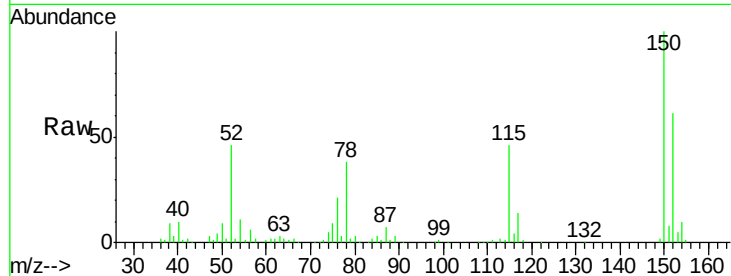


#1

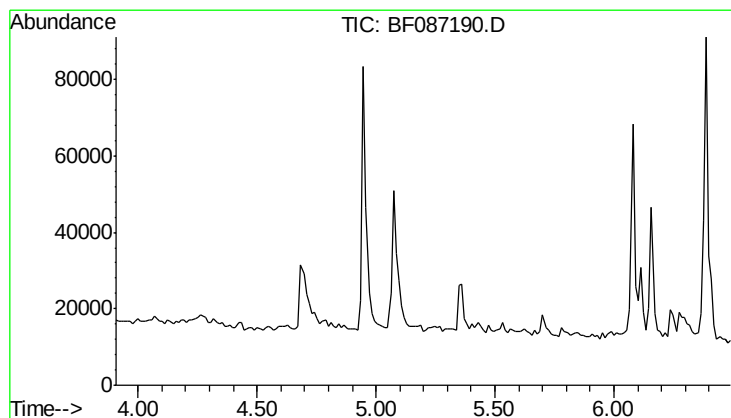
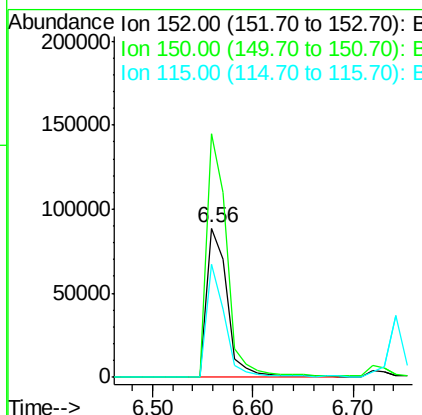
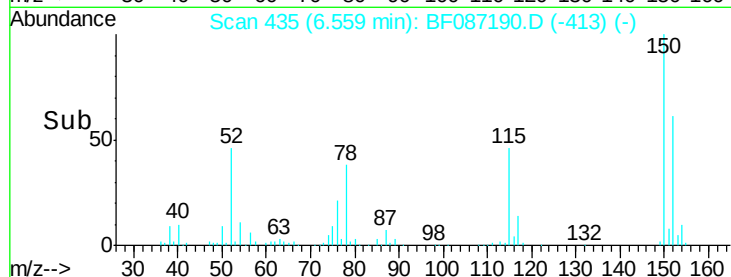
1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 6.56 min Scan# 435
 Delta R.T. -0.05 min
 Lab File: BF087190.D
 Acq: 19 May 2016 16:42

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
150	163.0	125.8	188.6
115	75.6	51.5	77.3



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

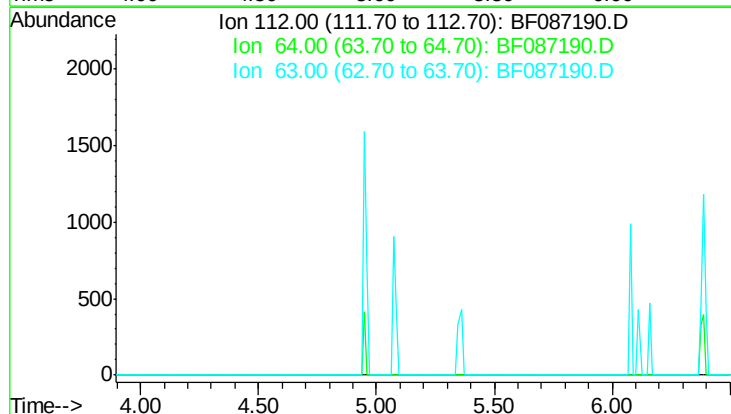


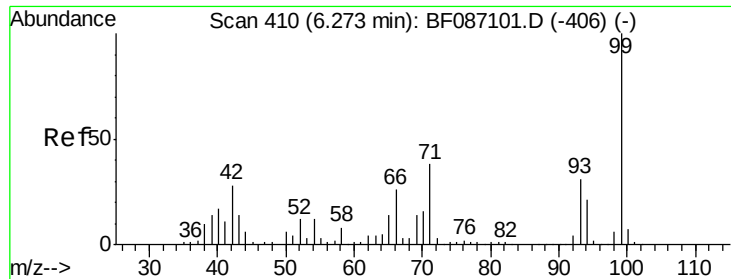
#5

2-Fluorophenol
 Concen: 0.00 ng
 Expected RT: 5.20 min

Lab File: BF087190.D
 Acq: 19 May 2016 16:42

Tgt Ion	Sig	Exp Ratio
112	100	
64	65.1	
63	32.1	





#7

Phenol-d6

Concen: 0.70 ng

RT: 6.27 min Scan# 410

Delta R.T. -0.01 min

Lab File: BF087190.D

Acq: 19 May 2016 16:42

Instrument :

BNA_F

ClientSampleId :

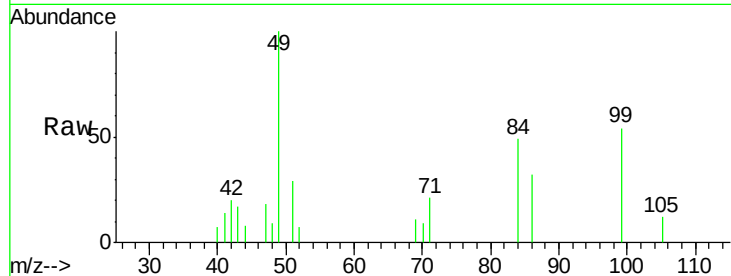
Tot Ion: 99 Resp: 7096

Ion Ratio Lower Upper

99 100

42 37.6 13.6 20.4#

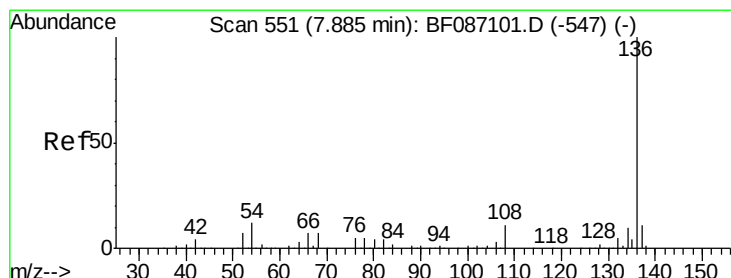
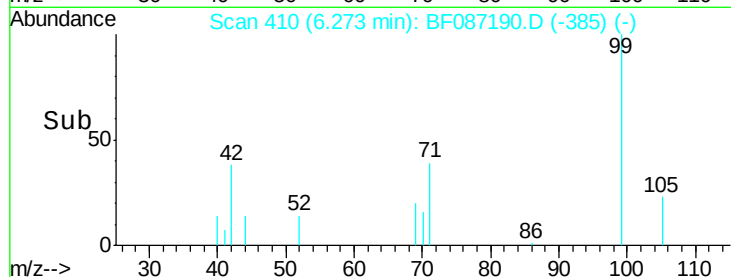
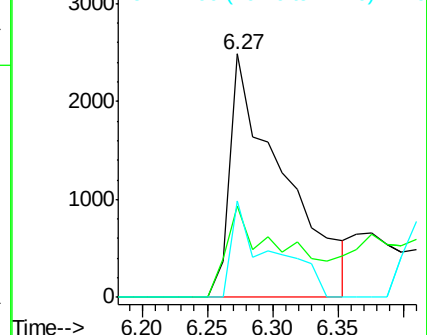
71 39.4 24.6 36.8#



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: 7.85 min Scan# 548

Delta R.T. -0.05 min

Lab File: BF087190.D

Acq: 19 May 2016 16:42

Tgt Ion: 136 Resp: 547155

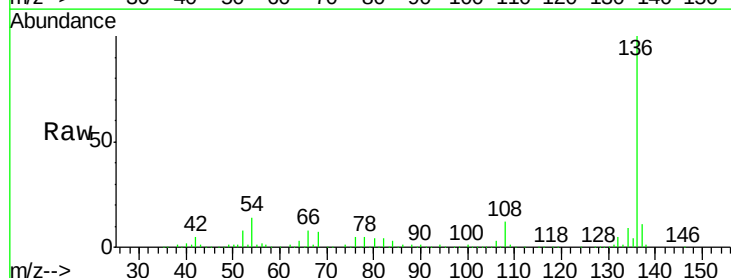
Ion Ratio Lower Upper

136 100

137 11.1 8.8 13.2

54 14.4 5.0 7.4#

68 7.1 4.4 6.6#

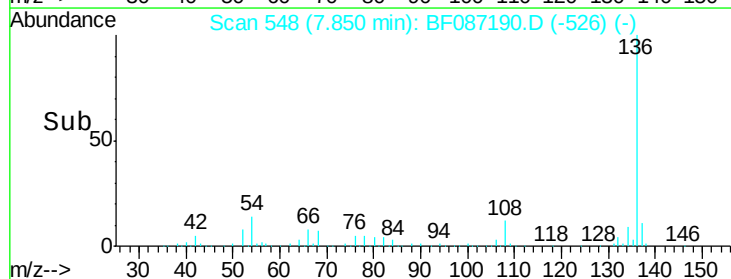
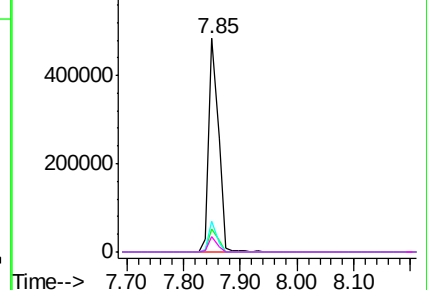


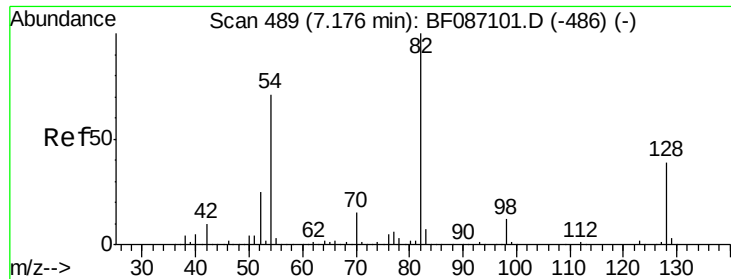
Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.73 ng

RT: 7.16 min Scan# 488

Delta R.T. -0.02 min

Lab File: BF087190.D

Acq: 19 May 2016 16:42

Instrument :

BNA_F

ClientSampleId :

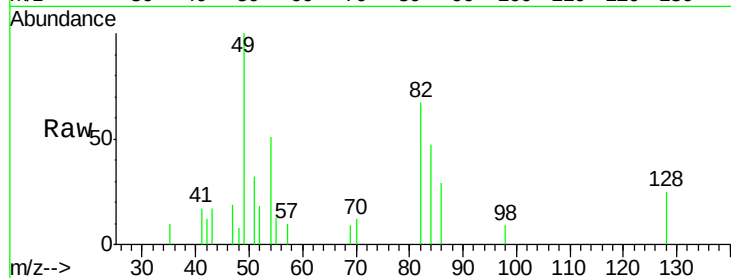
Tot Ion: 82 Resp: 8010

Ion Ratio Lower Upper

82 100

128 37.5 40.6 61.0#

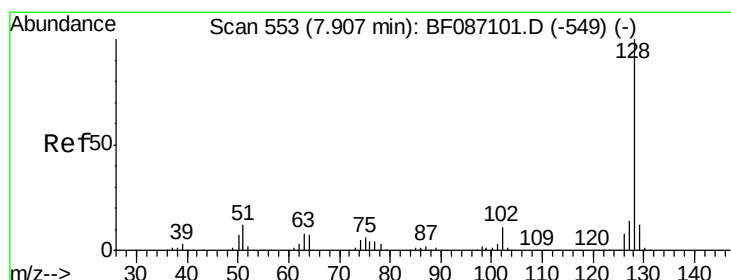
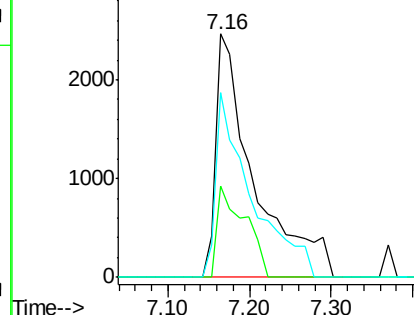
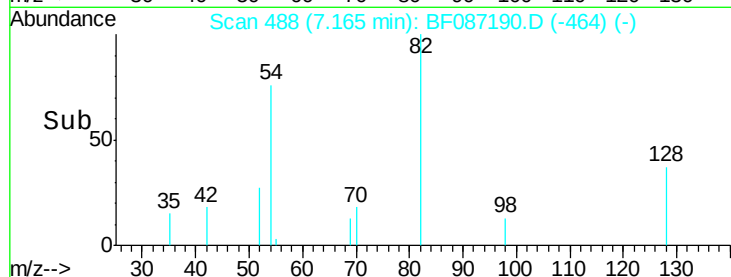
54 75.6 38.1 57.1#



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



#31

Naphthalene

Concen: 60.55 ng

RT: 7.87 min Scan# 550

Delta R.T. -0.05 min

Lab File: BF087190.D

Acq: 19 May 2016 16:42

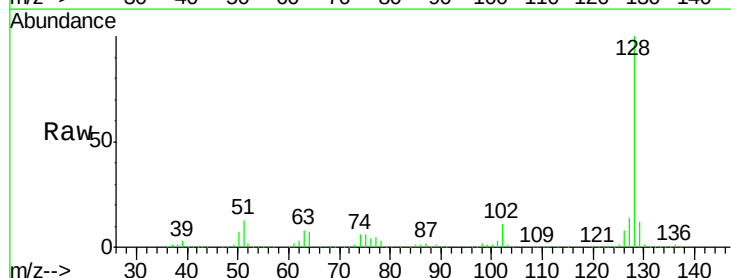
Tgt Ion:128 Resp: 1618873

Ion Ratio Lower Upper

128 100

129 11.7 8.6 13.0

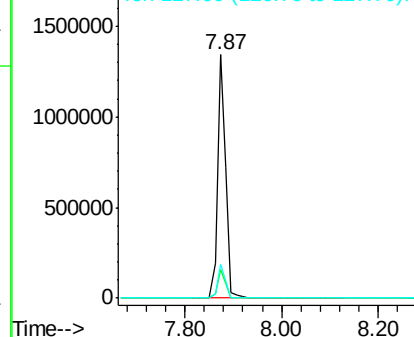
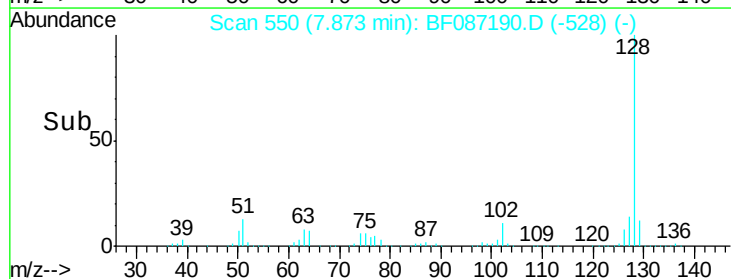
127 13.9 10.8 16.2

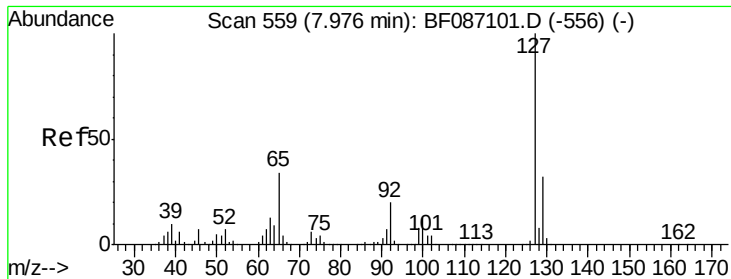


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

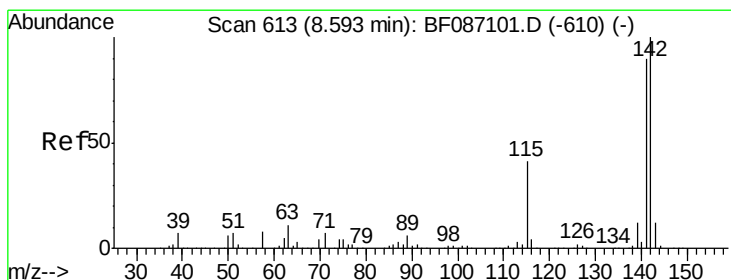
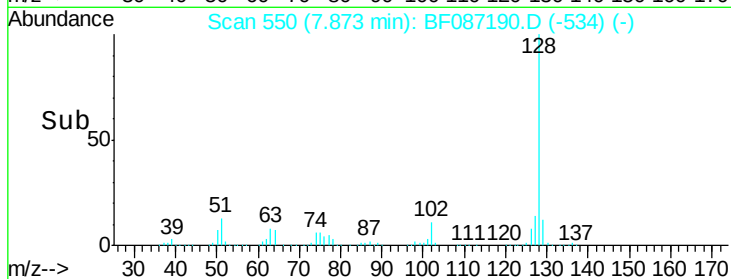
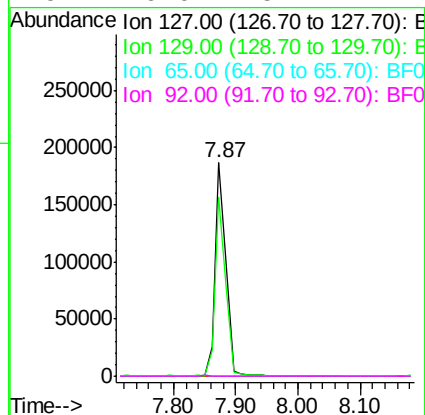
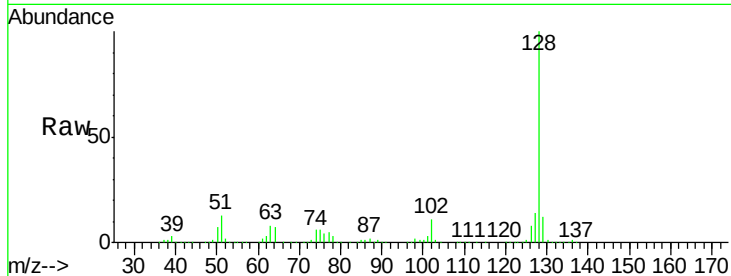




#33
4-Chloroaniline
Concen: 19.85 ng
RT: 7.87 min Scan# 550
Delta R.T. -0.11 min
Lab File: BF087190.D
Acq: 19 May 2016 16:42

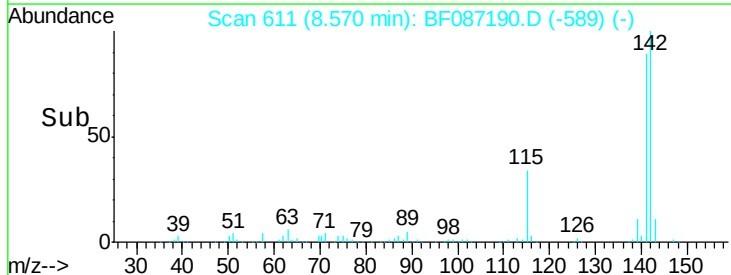
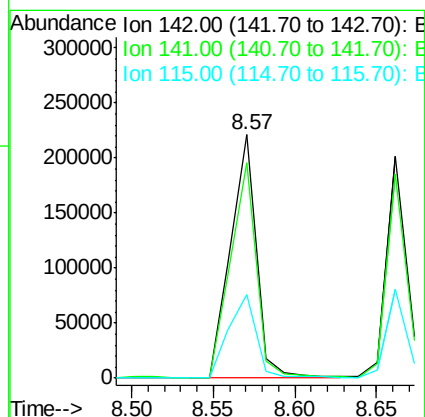
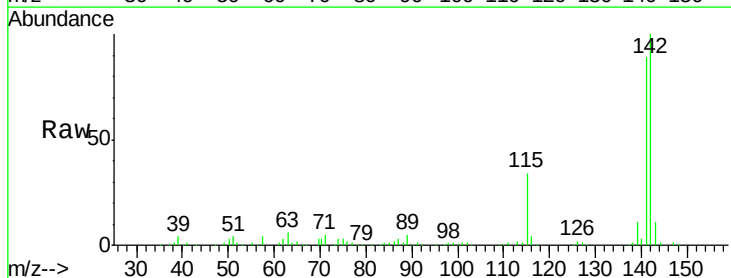
Instrument :
BNA_F
ClientSampled :

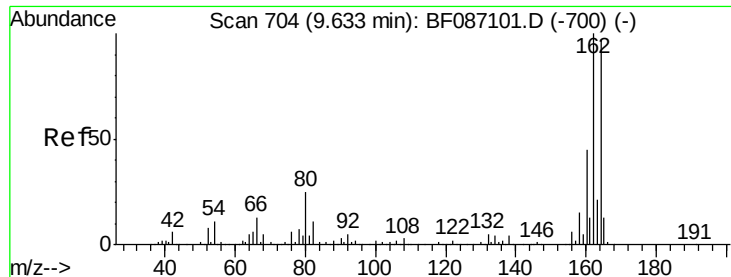
Tot Ion:	127	Resp:	220581
Ion	Ratio	Lower	Upper
127	100		
129	83.8	26.2	39.4#
65	0.0	23.0	34.4#
92	0.0	15.1	22.7#



#37
2-Methylnaphthalene
Concen: 14.15 ng
RT: 8.57 min Scan# 611
Delta R.T. -0.05 min
Lab File: BF087190.D
Acq: 19 May 2016 16:42

Tgt Ion:	142	Resp:	241975
Ion	Ratio	Lower	Upper
142	100		
141	88.7	71.0	106.6
115	34.4	26.6	39.8

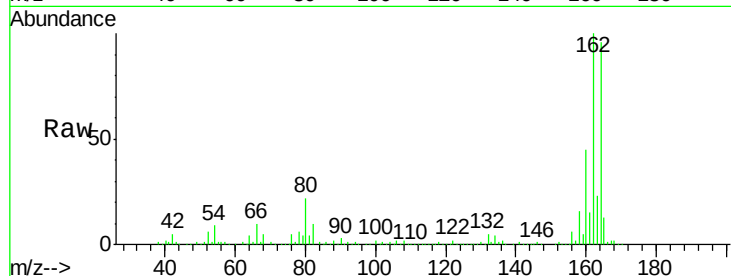




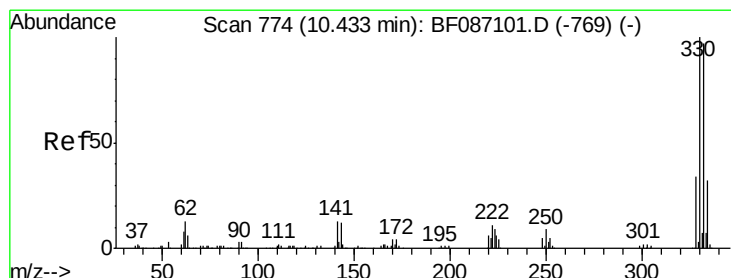
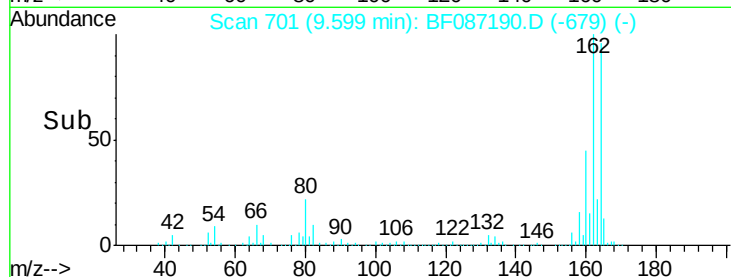
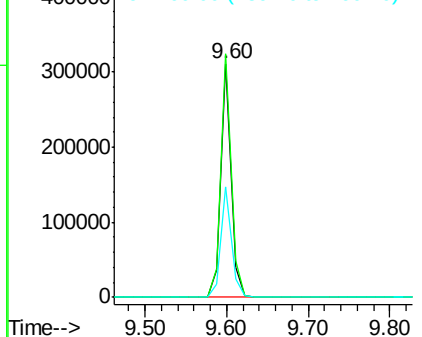
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.60 min Scan# 701
Delta R.T. -0.05 min
Lab File: BF087190.D
Acq: 19 May 2016 16:42

Instrument :
BNA_F
ClientSampleId :

Tot Ion:164 Resp: 271809
Ion Ratio Lower Upper
164 100
162 104.1 82.8 124.2
160 47.0 36.9 55.3

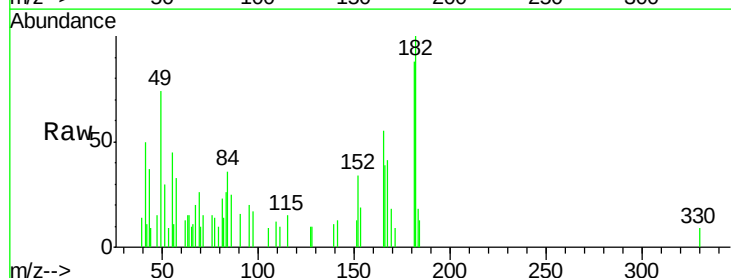


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

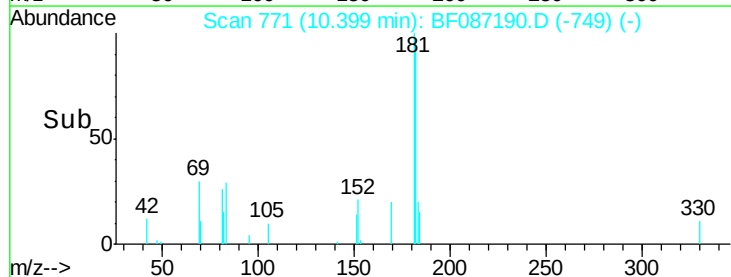
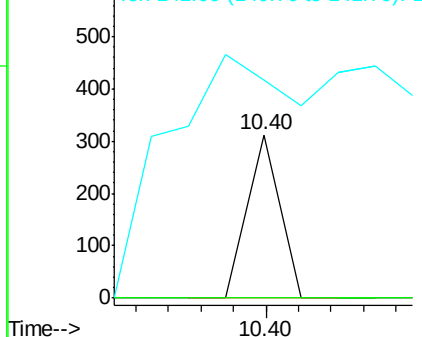


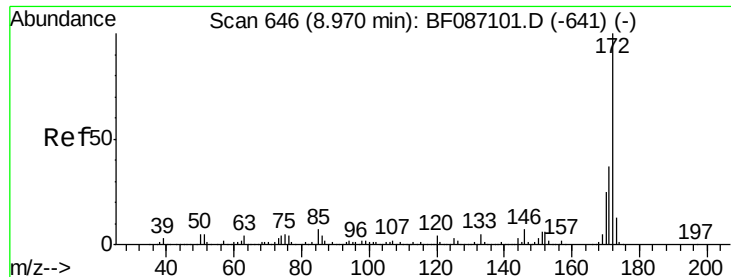
#41
2,4,6-Tribromophenol
Concen: 0.07 ng
RT: 10.40 min Scan# 771
Delta R.T. -0.05 min
Lab File: BF087190.D
Acq: 19 May 2016 16:42

Tgt Ion:330 Resp: 214
Ion Ratio Lower Upper
330 100
332 0.0 79.0 118.4#
141 605.1 31.2 46.8#



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

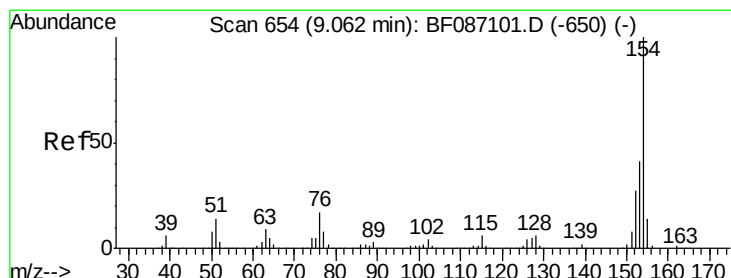
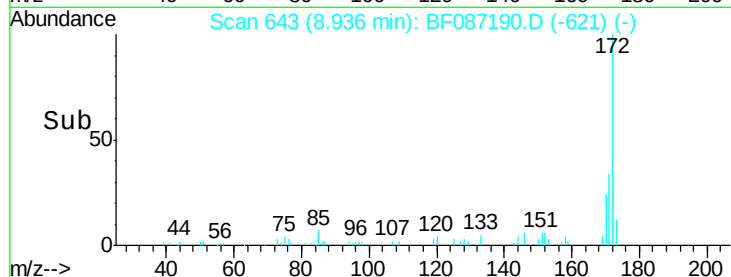
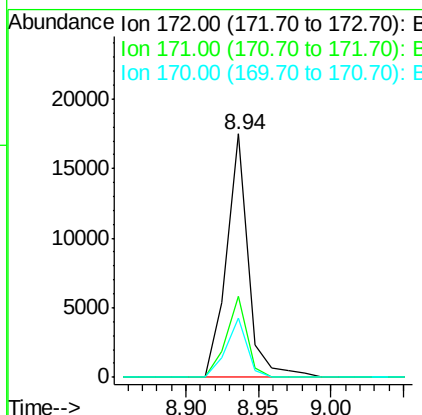
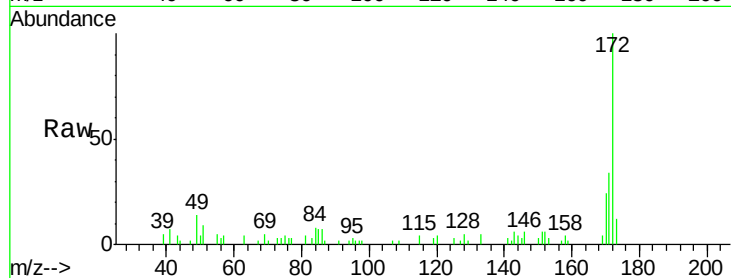




#44
 2-Fluorobiphenyl
 Concen: 1.11 ng
 RT: 8.94 min Scan# 643
 Delta R.T. -0.05 min
 Lab File: BF087190.D
 Acq: 19 May 2016 16:42

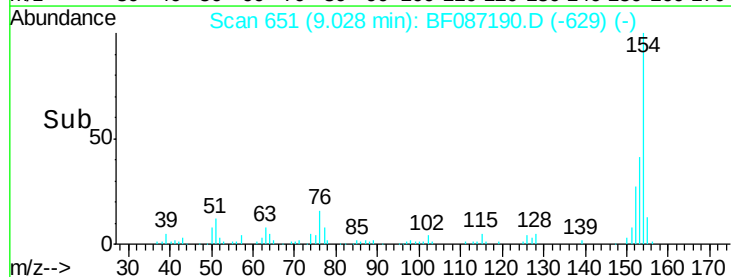
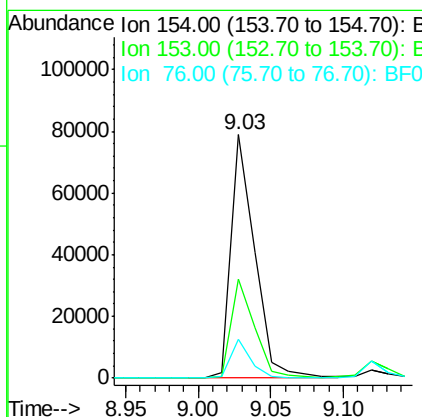
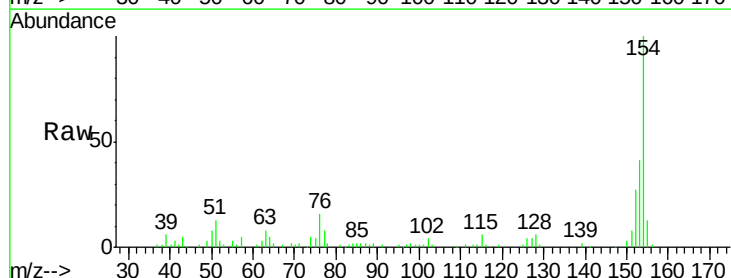
Instrument :
 BNA_F
 ClientSampleId :

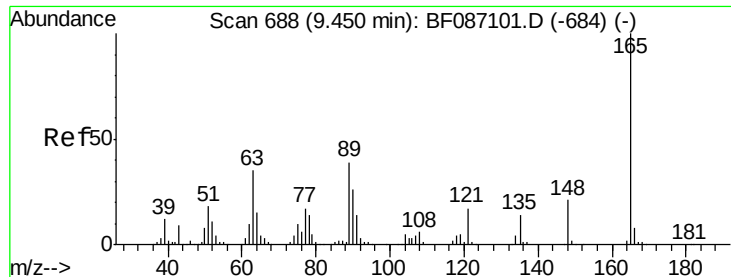
Tot Ion:172 Resp: 18281
 Ion Ratio Lower Upper
 172 100
 171 33.5 29.0 43.6
 170 24.1 19.8 29.8



#45
 1,1'-Biphenyl
 Concen: 3.98 ng
 RT: 9.03 min Scan# 651
 Delta R.T. -0.05 min
 Lab File: BF087190.D
 Acq: 19 May 2016 16:42

Tgt Ion:154 Resp: 89801
 Ion Ratio Lower Upper
 154 100
 153 40.7 20.3 60.3
 76 15.9 0.0 30.2

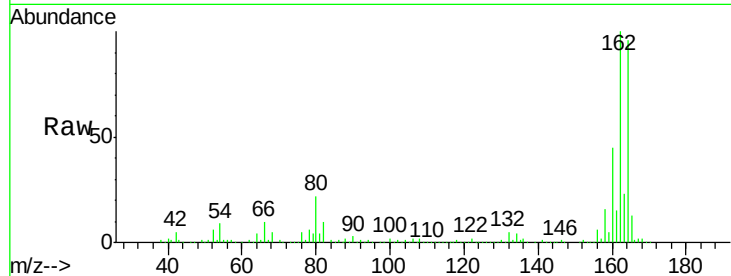




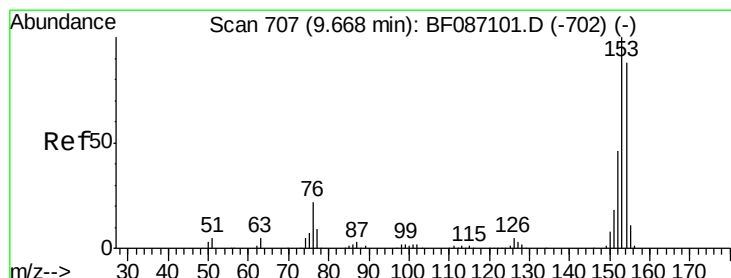
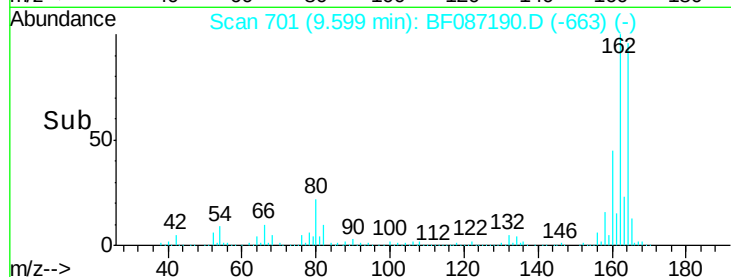
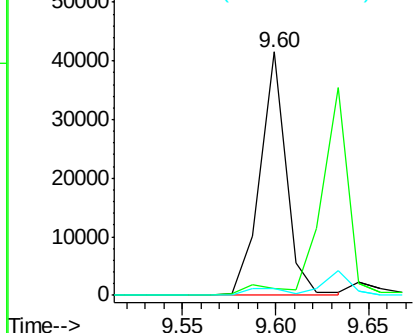
#50
2,6-Dinitrotoluene
Concen: 8.90 ng
RT: 9.60 min Scan# 701
Delta R.T. 0.14 min
Lab File: BF087190.D
Acq: 19 May 2016 16:42

Instrument :
BNA_F
ClientSampleId :

Tot Ion:165 Resp: 40050
Ion Ratio Lower Upper
165 100
63 2.8 51.8 77.8#
89 2.7 50.7 76.1#

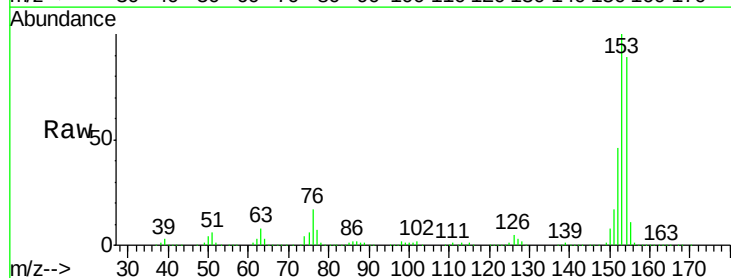


Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BF0
Ion 89.00 (88.70 to 89.70): BF0

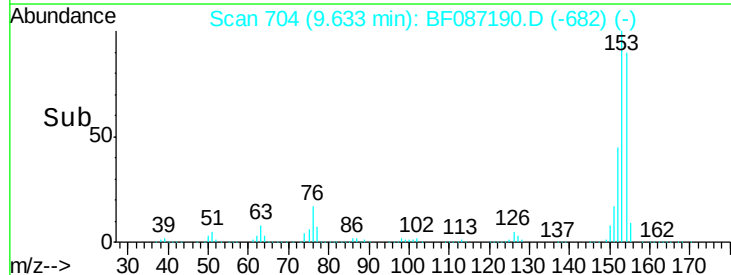
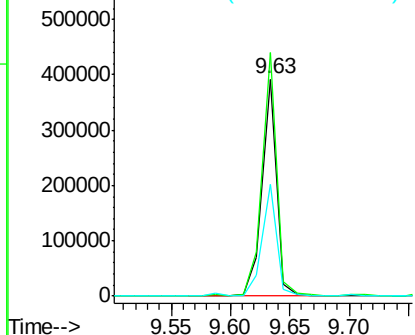


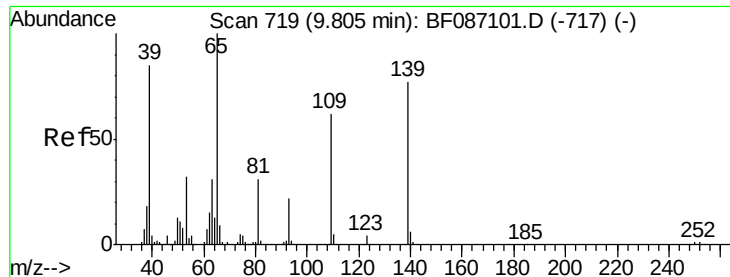
#51
Acenaphthene
Concen: 20.69 ng
RT: 9.63 min Scan# 704
Delta R.T. -0.05 min
Lab File: BF087190.D
Acq: 19 May 2016 16:42

Tgt Ion:154 Resp: 341478
Ion Ratio Lower Upper
154 100
153 112.1 89.8 134.6
152 51.3 43.4 65.0



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

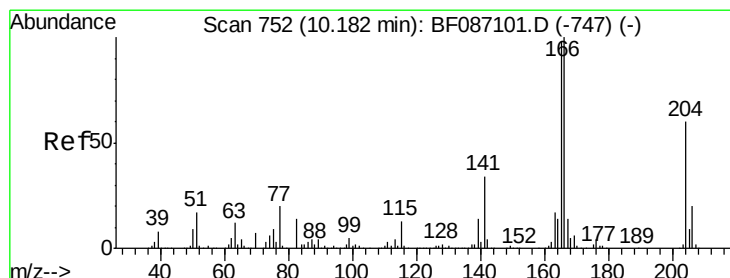
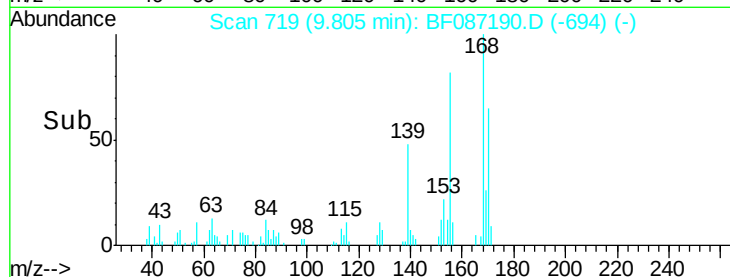
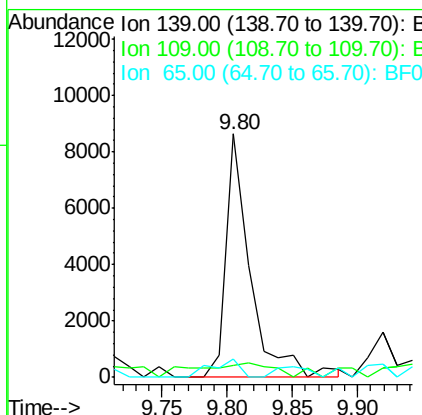
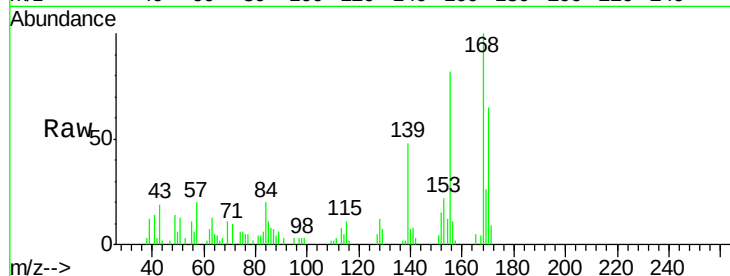




#55
4-Nitrophenol
Concen: 7.99 ng
RT: 9.80 min Scan# 719
Delta R.T. -0.01 min
Lab File: BF087190.D
Acq: 19 May 2016 16:42

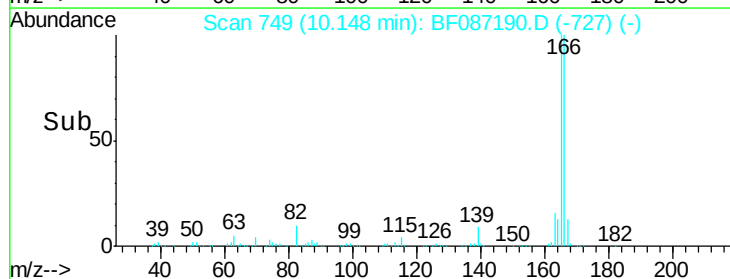
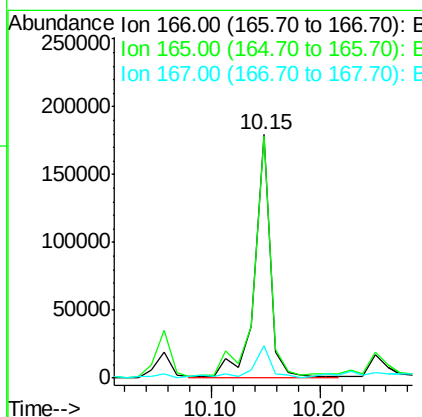
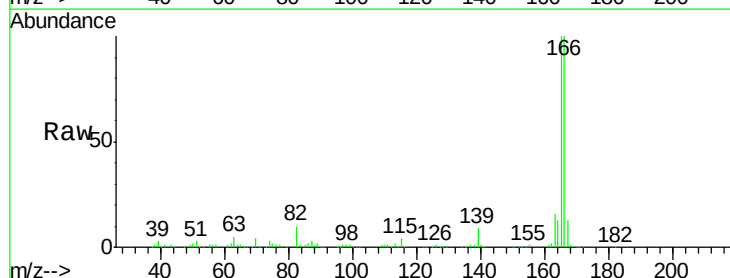
Instrument :
BNA_F
ClientSampled :

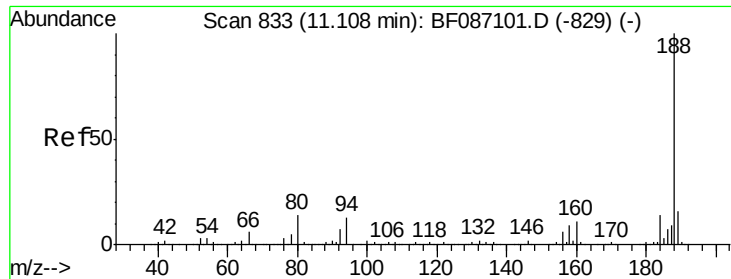
Tot Ion	Ratio	Lower	Upper
139	100		
109	5.0	36.9	76.9#
65	7.5	64.0	104.0#



#57
Fluorene
Concen: 10.66 ng
RT: 10.15 min Scan# 749
Delta R.T. -0.05 min
Lab File: BF087190.D
Acq: 19 May 2016 16:42

Tgt Ion	Ratio	Lower	Upper
166	100		
165	99.7	79.0	118.6
167	13.2	10.6	15.8

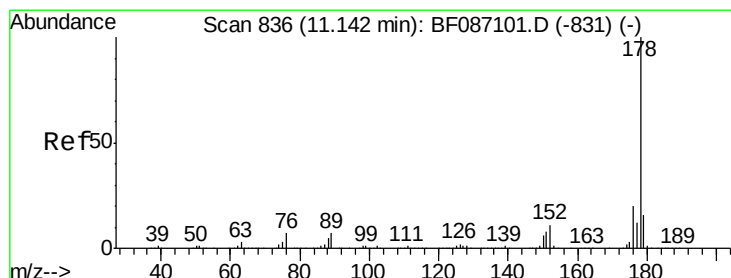
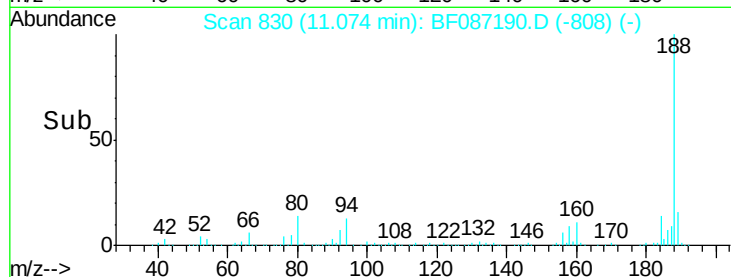
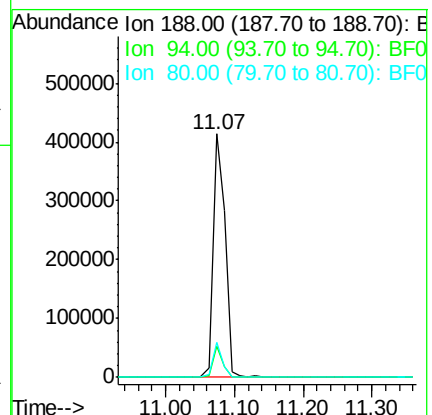
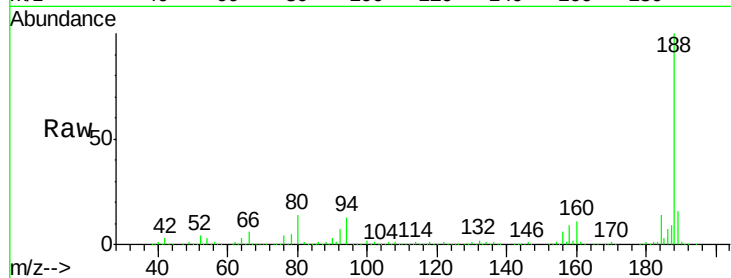




#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.07 min Scan# 830
Delta R.T. -0.05 min
Lab File: BF087190.D
Acq: 19 May 2016 16:42

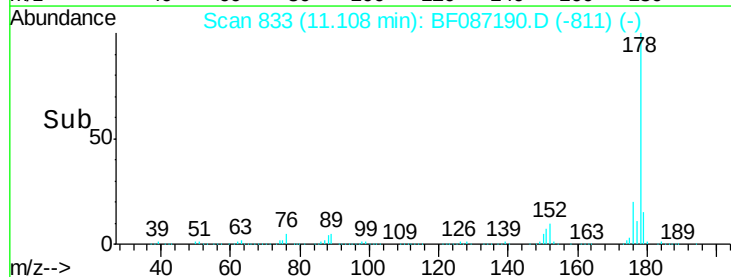
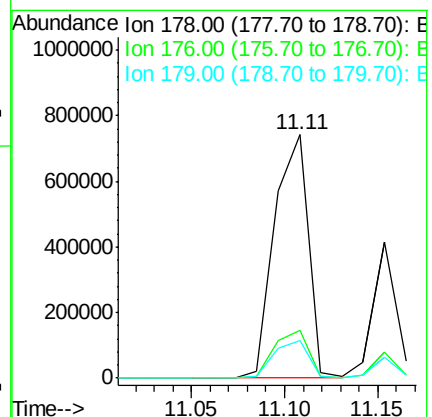
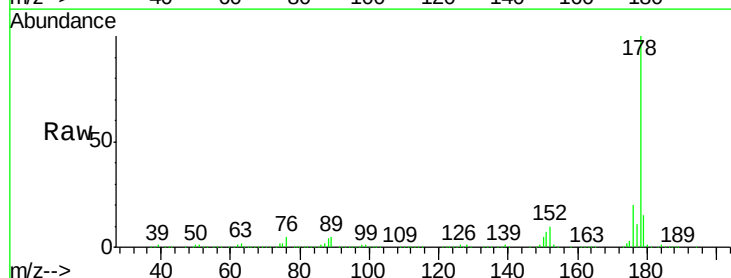
Instrument :
BNA_F
ClientSampled :

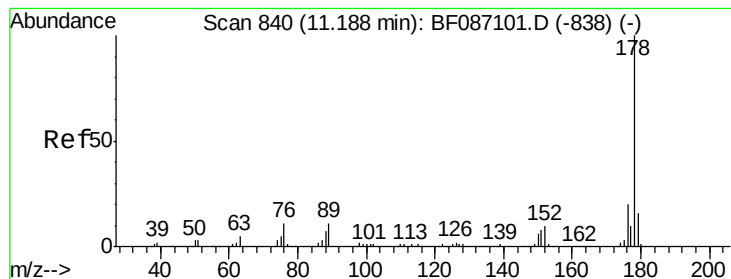
Tot Ion:188 Resp: 502539
Ion Ratio Lower Upper
188 100
94 12.6 6.8 10.2#
80 14.3 7.1 10.7#



#70
Phenanthrene
Concen: 34.23 ng
RT: 11.11 min Scan# 833
Delta R.T. -0.05 min
Lab File: BF087190.D
Acq: 19 May 2016 16:42

Tgt Ion:178 Resp: 932932
Ion Ratio Lower Upper
178 100
176 19.6 16.0 24.0
179 15.3 12.6 18.8





#71

Anthracene

Concen: 13.49 ng

RT: 11.15 min Scan# 837

Delta R.T. -0.05 min

Lab File: BF087190.D

Acq: 19 May 2016 16:42

Instrument :

BNA_F

ClientSampled :

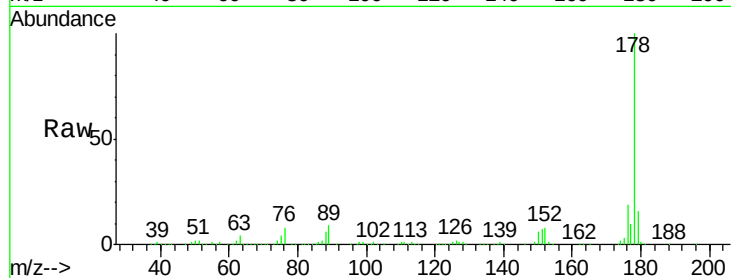
Tot Ion:178 Resp: 371980

Ion Ratio Lower Upper

178 100

176 18.9 15.6 23.4

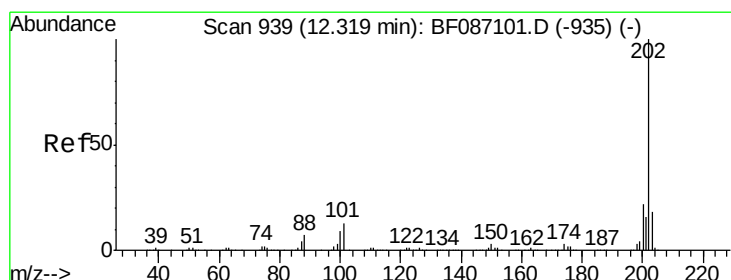
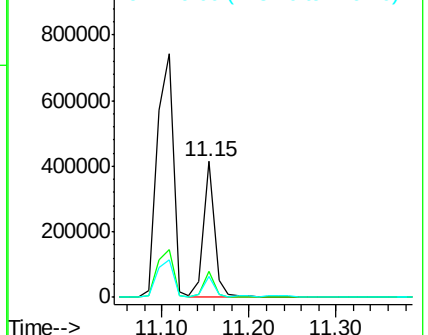
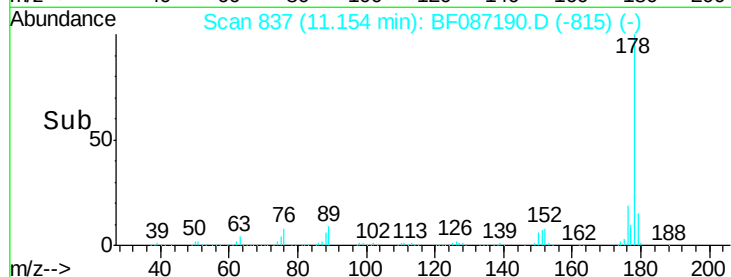
179 15.6 12.7 19.1



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



#74

Fluoranthene

Concen: 14.65 ng

RT: 12.29 min Scan# 936

Delta R.T. -0.05 min

Lab File: BF087190.D

Acq: 19 May 2016 16:42

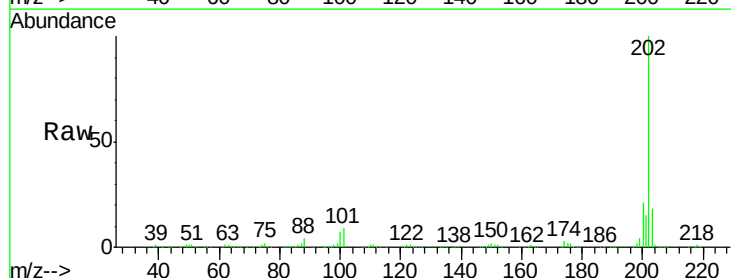
Tgt Ion:202 Resp: 400092

Ion Ratio Lower Upper

202 100

101 8.9 0.0 35.4

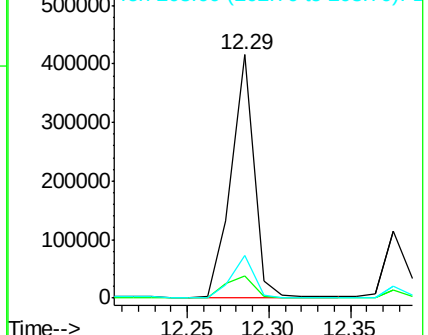
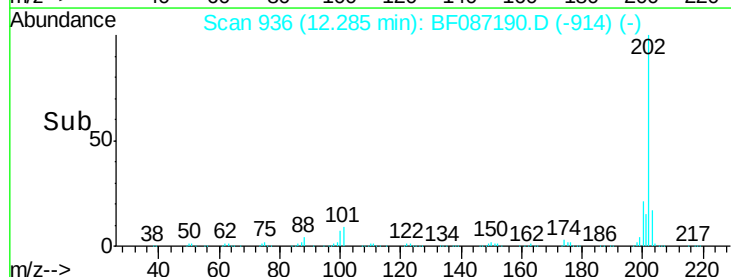
203 17.6 0.0 38.1

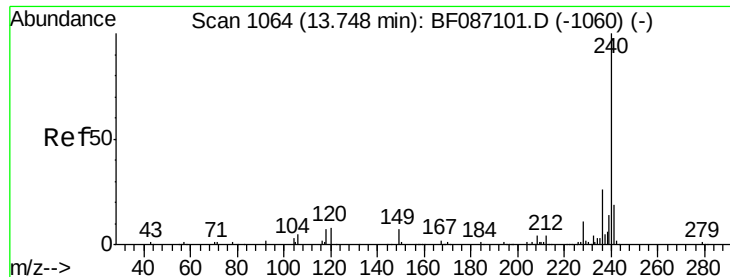


Abundance Ion 202.00 (201.70 to 202.70): E

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: 13.70 min Scan# 1060

Delta R.T. -0.06 min

Lab File: BF087190.D

Acq: 19 May 2016 16:42

Instrument :

BNA_F

ClientSampleId :

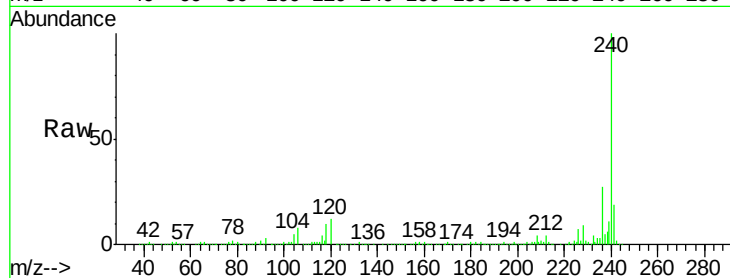
Tot Ion:240 Resp: 403311

Ion Ratio Lower Upper

240 100

120 12.1 11.2 16.8

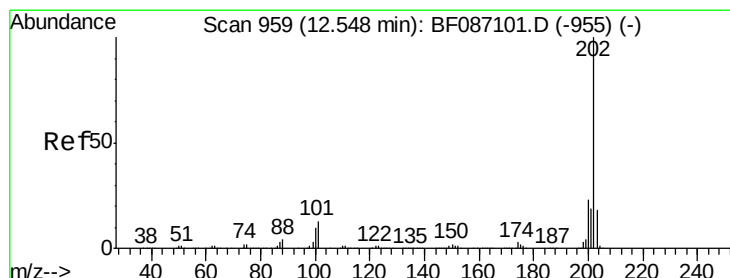
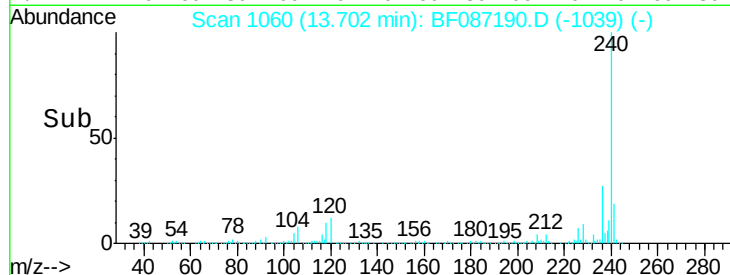
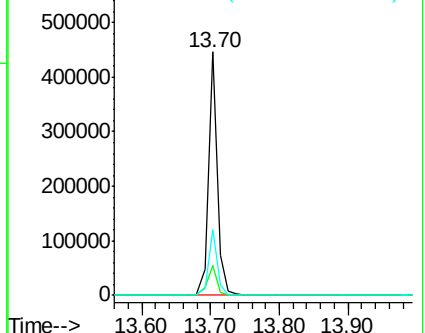
236 27.1 21.2 31.8



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: 18.36 ng

RT: 12.51 min Scan# 956

Delta R.T. -0.05 min

Lab File: BF087190.D

Acq: 19 May 2016 16:42

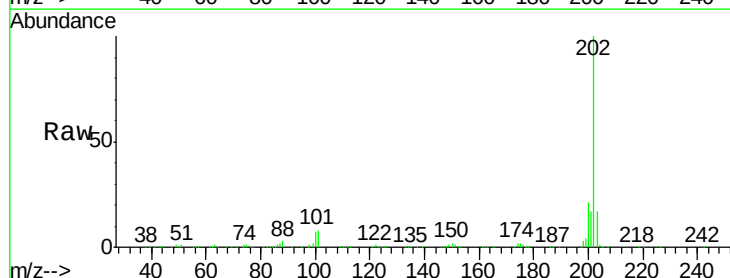
Tgt Ion:202 Resp: 535041

Ion Ratio Lower Upper

202 100

200 21.0 17.7 26.5

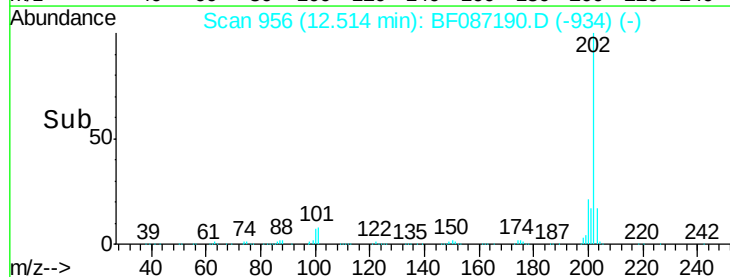
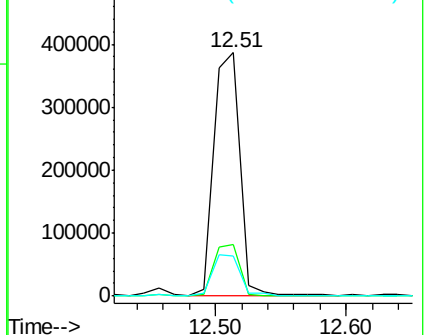
203 16.7 14.2 21.4

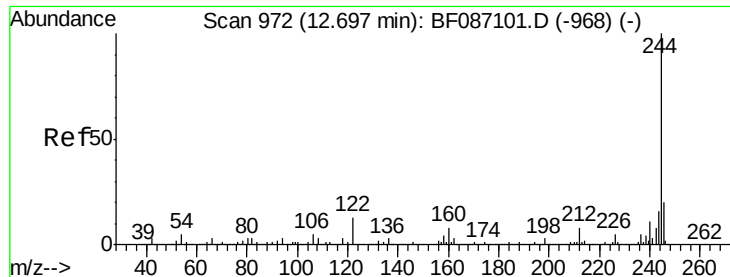


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

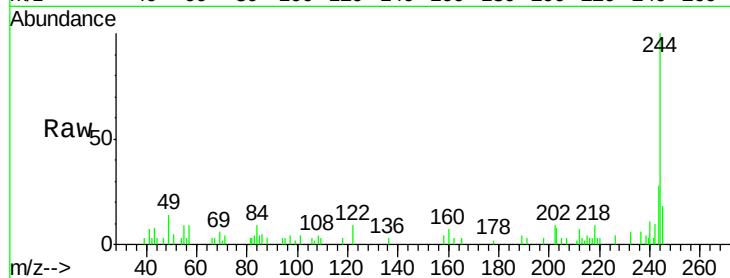




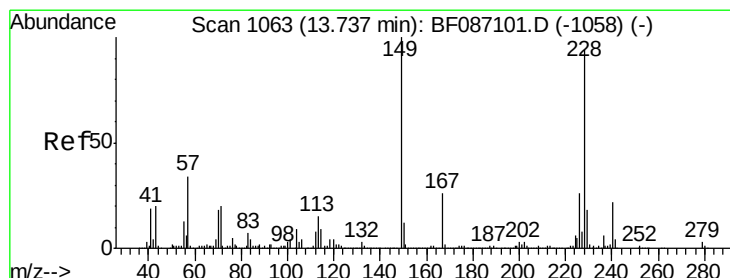
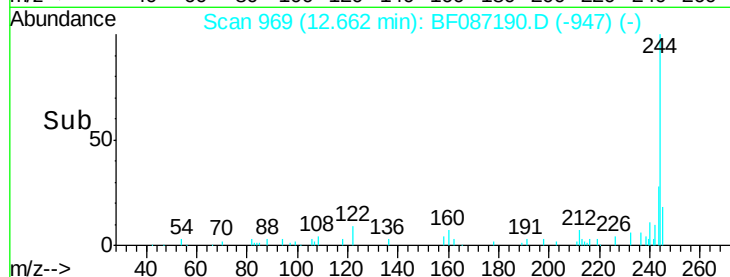
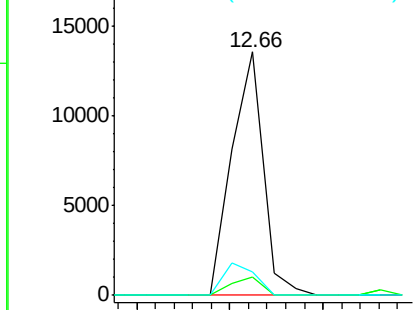
#78
 Terphenyl-d14
 Concen: 0.90 ng
 RT: 12.66 min Scan# 969
 Delta R.T. -0.05 min
 Lab File: BF087190.D
 Acq: 19 May 2016 16:42

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:244 Resp: 15996
 Ion Ratio Lower Upper
 244 100
 212 7.5 6.2 9.2
 122 9.4 12.0 18.0#

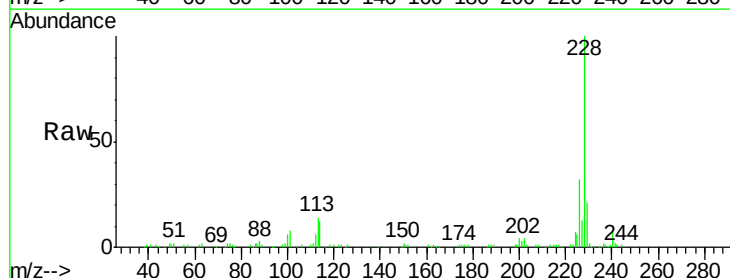


Abundance Ion 244.00 (243.70 to 244.70): E
 Ion 212.00 (211.70 to 212.70): E
 Ion 122.00 (121.70 to 122.70): E

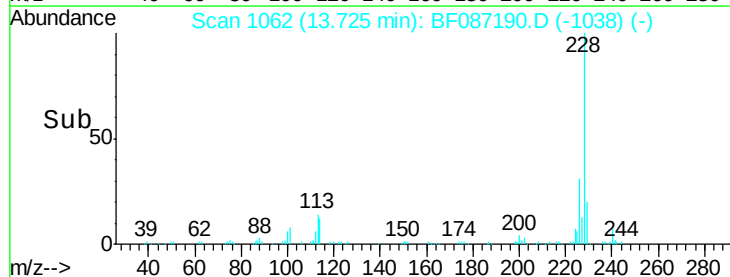
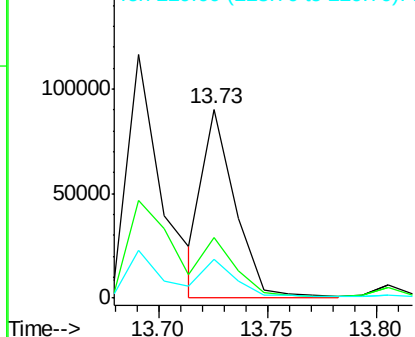


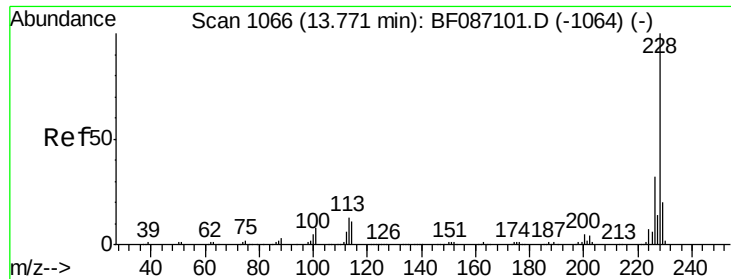
#80
 Benzo(a)anthracene
 Concen: 3.96 ng
 RT: 13.73 min Scan# 1062
 Delta R.T. -0.02 min
 Lab File: BF087190.D
 Acq: 19 May 2016 16:42

Tgt Ion:228 Resp: 92279
 Ion Ratio Lower Upper
 228 100
 226 31.8 22.5 33.7
 229 20.6 16.6 25.0



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

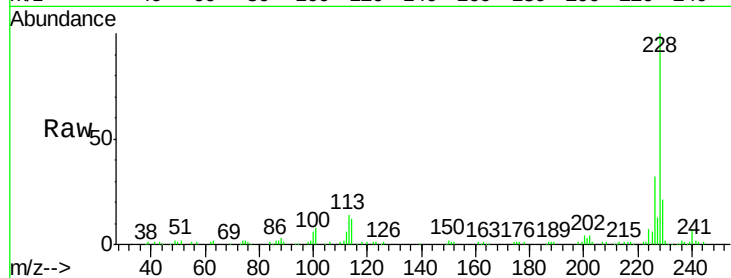




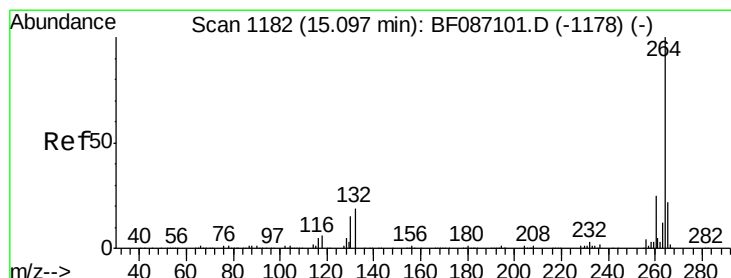
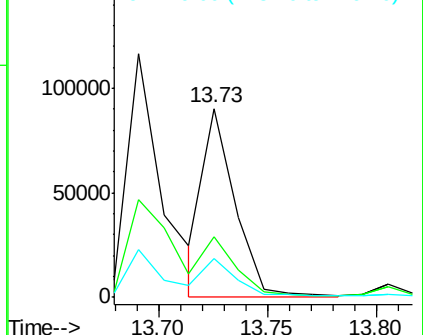
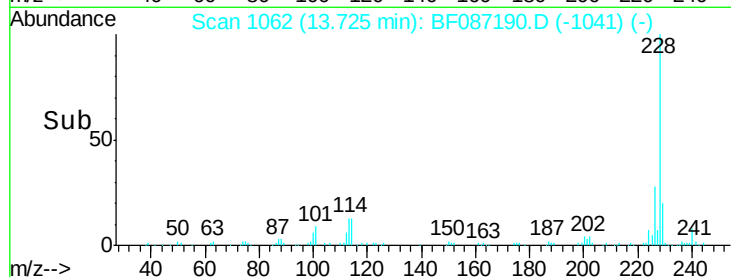
#82
Chrysene
Concen: 4.09 ng
RT: 13.73 min Scan# 1062
Delta R.T. -0.06 min
Lab File: BF087190.D
Acq: 19 May 2016 16:42

Instrument :
BNA_F
ClientSampleId :

Tot Ion:228 Resp: 92316
Ion Ratio Lower Upper
228 100
226 31.8 24.4 36.6
229 20.6 15.8 23.8

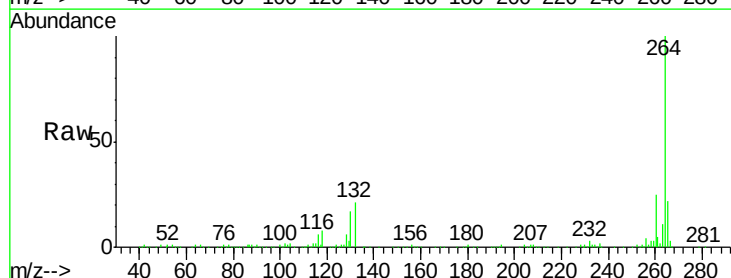


Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

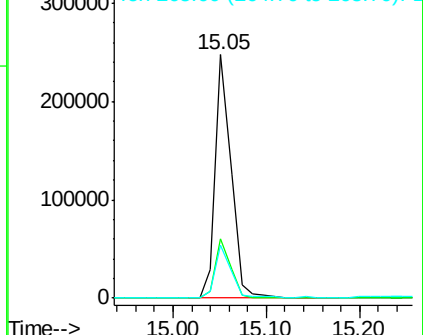
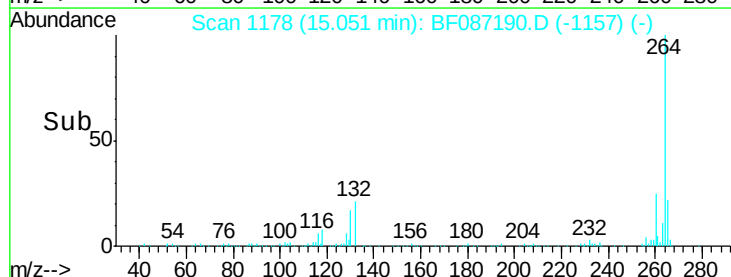


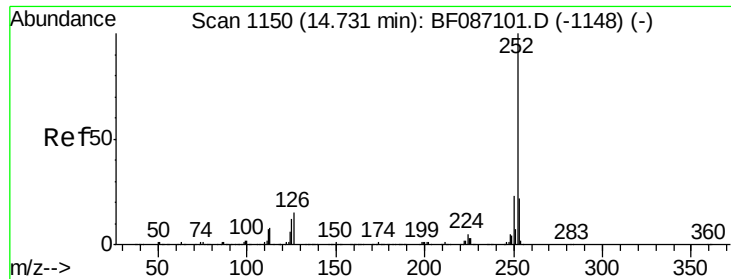
#86
Perylene-d12
Concen: 20.00 ng
RT: 15.05 min Scan# 1178
Delta R.T. -0.06 min
Lab File: BF087190.D
Acq: 19 May 2016 16:42

Tgt Ion:264 Resp: 293752
Ion Ratio Lower Upper
264 100
260 24.6 19.5 29.3
265 21.7 17.3 25.9



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

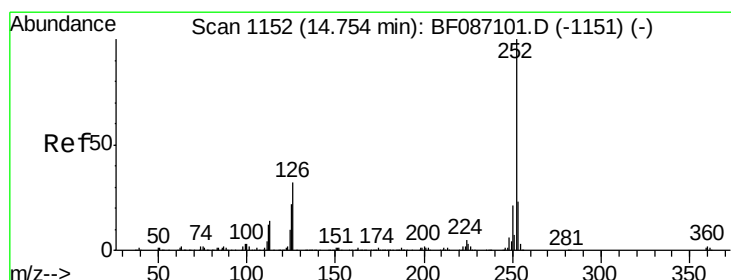
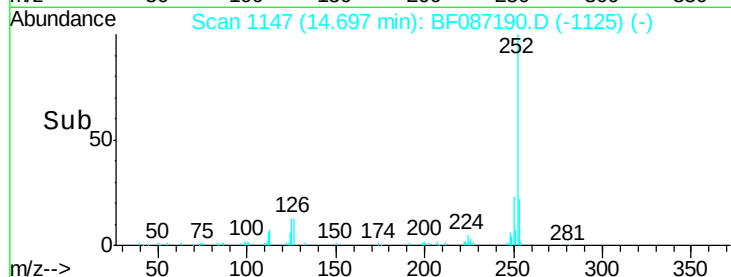
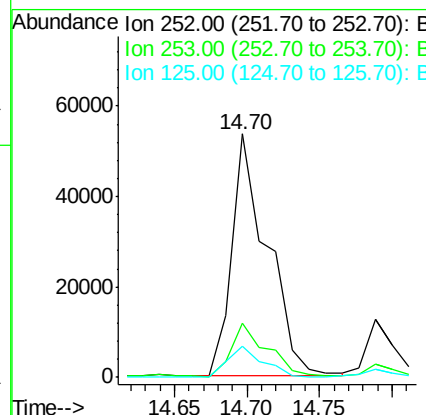
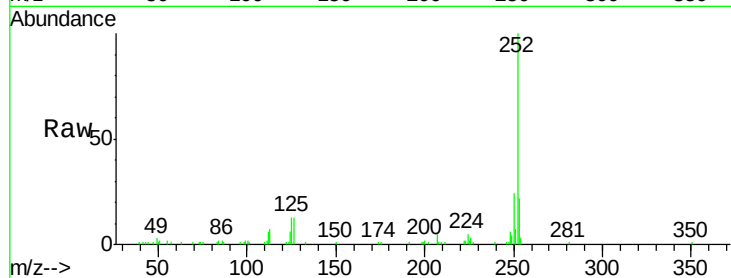




#87
Benzo(b)fluoranthene
Concen: 4.67 ng
RT: 14.70 min Scan# 1147
Delta R.T. -0.05 min
Lab File: BF087190.D
Acq: 19 May 2016 16:42

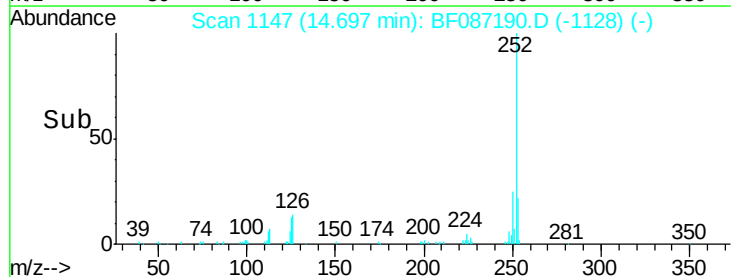
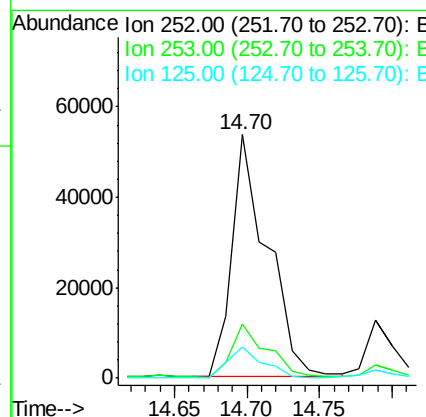
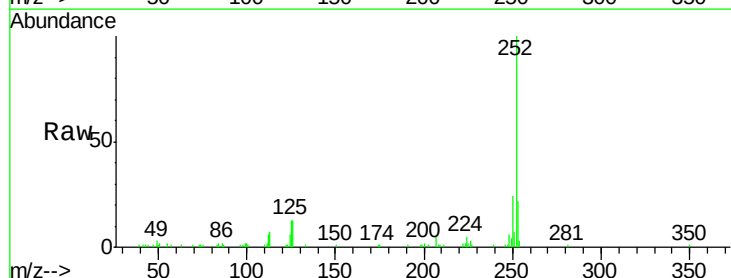
Instrument :
BNA_F
ClientSampleId :

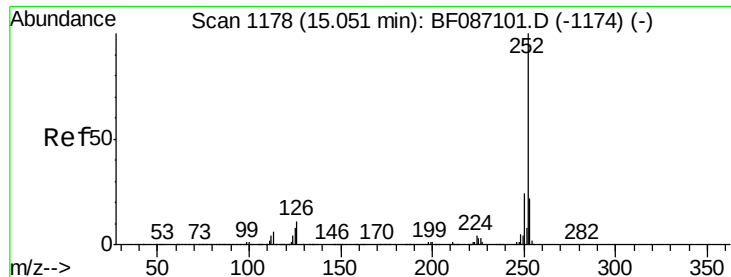
Tot Ion:252 Resp: 91103
Ion Ratio Lower Upper
252 100
253 22.2 17.8 26.6
125 13.0 11.4 17.0



#88
Benzo(k)fluoranthene
Concen: 6.28 ng
RT: 14.70 min Scan# 1147
Delta R.T. -0.08 min
Lab File: BF087190.D
Acq: 19 May 2016 16:42

Tgt Ion:252 Resp: 91103
Ion Ratio Lower Upper
252 100
253 22.2 17.8 26.6
125 13.0 9.1 13.7

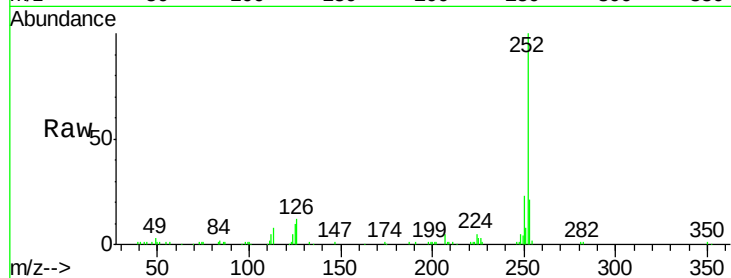




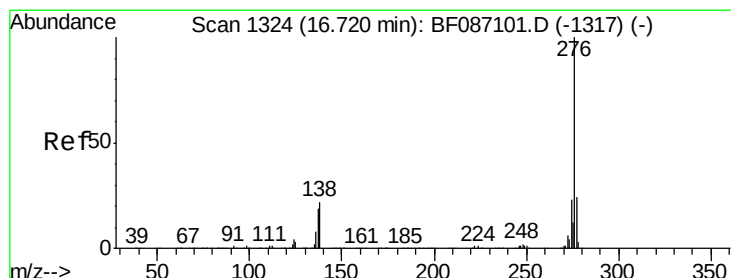
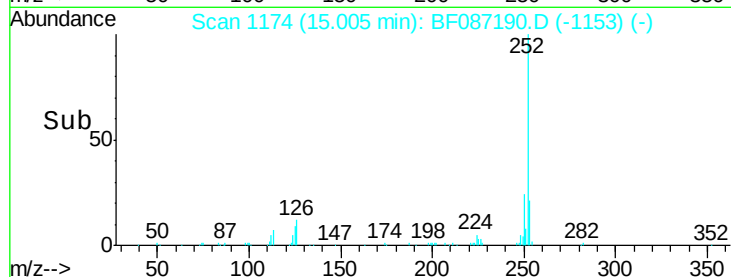
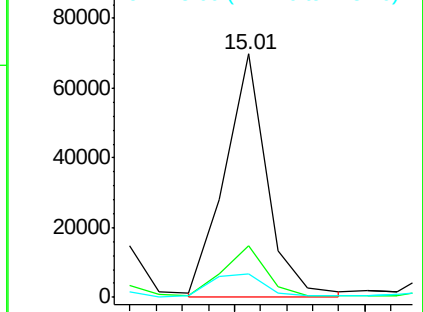
#89
Benzo(a)pyrene
Concen: 4.81 ng
RT: 15.01 min Scan# 1174
Delta R.T. -0.06 min
Lab File: BF087190.D
Acq: 19 May 2016 16:42

Instrument :
BNA_F
ClientSampleId :

Tot Ion:252 Resp: 78416
Ion Ratio Lower Upper
252 100
253 21.2 17.2 25.8
125 9.7 9.0 13.6

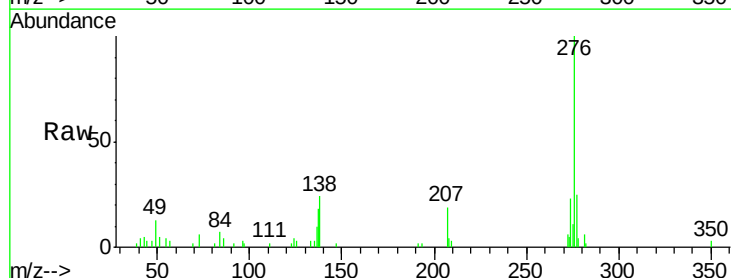


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#91
Benzo(g,h,i)perylene
Concen: 2.65 ng
RT: 16.65 min Scan# 1318
Delta R.T. -0.09 min
Lab File: BF087190.D
Acq: 19 May 2016 16:42

Tgt Ion:276 Resp: 36693
Ion Ratio Lower Upper
276 100
277 25.0 19.6 29.4
138 24.2 23.6 35.4



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

