

Data Path : Z:\HPCHEM1\BNA F\DATA\BF081817\
 Data File : BF097860.D
 Acq On : 19 Aug 2017 4:08
 Operator : SJ/JU
 Sample : I4474-04 10X
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 BC8B4

Quant Time: Aug 19 05:06:07 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Aug 15 13:25:08 2017
 Response via : Initial Calibration

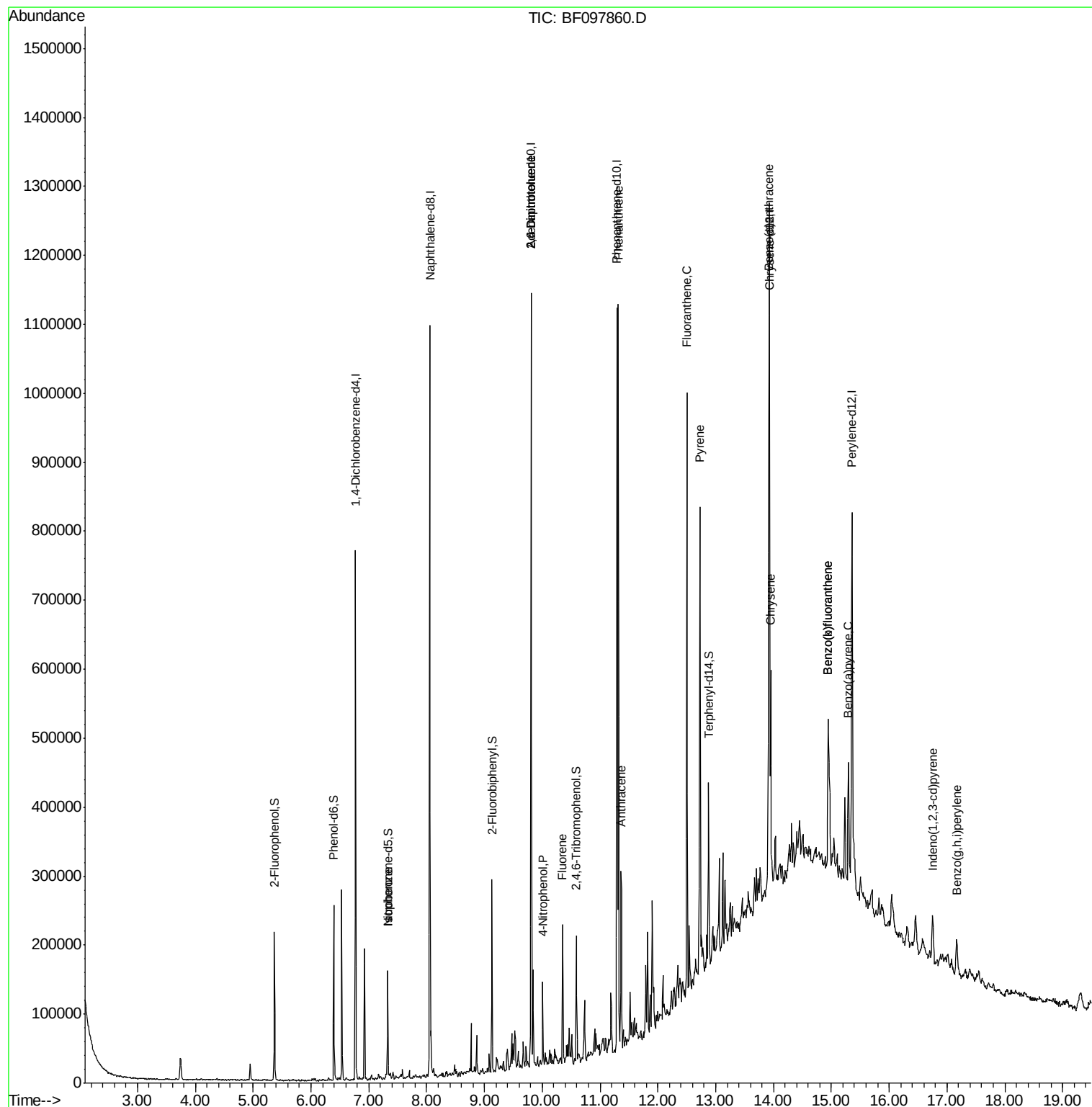
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.77	152	107997	20.00	ng	-0.01
21) Naphthalene-d8	8.06	136	426734	20.00	ng	-0.01
38) Acenaphthene-d10	9.81	164	189165	20.00	ng	-0.01
63) Phenanthrene-d10	11.29	188	347935	20.00	ng	-0.01
75) Chrysene-d12	13.93	240	281600	20.00	ng	-0.01
86) Perylene-d12	15.36	264	240051	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.37	112	55339	7.79	ng	-0.02
7) Phenol-d6	6.39	99	77323	8.02	ng	-0.02
23) Nitrobenzene-d5	7.33	82	45788	5.83	ng	-0.02
41) 2,4,6-Tribromophenol	10.59	330	12251	7.46	ng	-0.02
44) 2-Fluorobiphenyl	9.13	172	74112	5.76	ng	-0.02
78) Terphenyl-d14	12.87	244	58943	4.36	ng	-0.02
Target Compounds						
25) Isophorone	7.33	82	45673	2.80	ng	# 68
50) 2,6-Dinitrotoluene	9.81	165	24362	8.83	ng	# 35
55) 4-Nitrophenol	10.01	139	12353	4.35	ng	# 31
56) 2,4-Dinitrotoluene	9.81	165	24362	7.03	ng	# 34
57) Fluorene	10.35	166	50229	3.84	ng	100
70) Phenanthrene	11.32	178	330875	17.85	ng	99
71) Anthracene	11.36	178	90325	4.80	ng	99
74) Fluoranthene	12.50	202	327821	16.94	ng	98
77) Pyrene	12.73	202	279455	12.13	ng	98
80) Benzo(a)anthracene	13.92	228	127691	7.57	ng	99
82) Chrysene	13.95	228	105047	6.26	ng	98
85) Indeno(1,2,3-cd)pyrene	16.75	276	39600	3.21	ng	# 89
87) Benzo(b)fluoranthene	14.94	252	163221	10.79	ng	# 97
88) Benzo(k)fluoranthene	14.94	252	163221	11.48	ng	98
89) Benzo(a)pyrene	15.30	252	83582	6.24	ng	99
91) Benzo(g,h,i)perylene	17.17	276	37950	3.34	ng	96

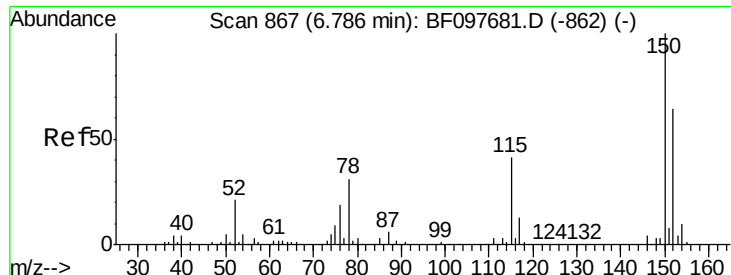
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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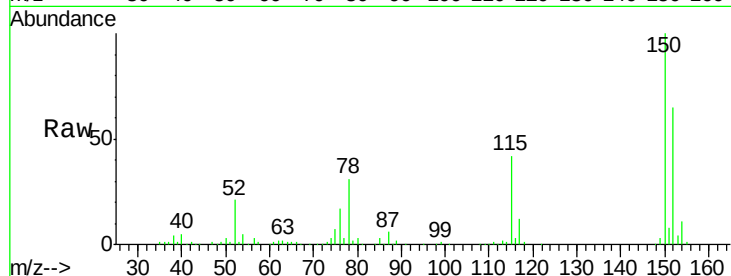


#1

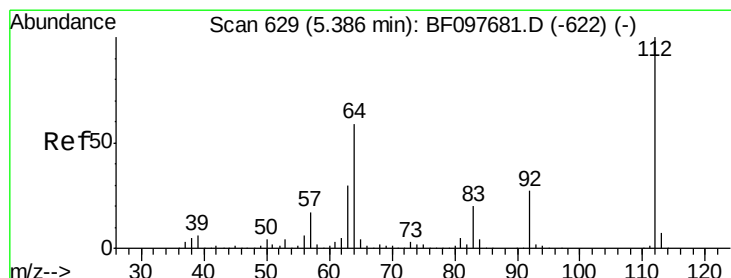
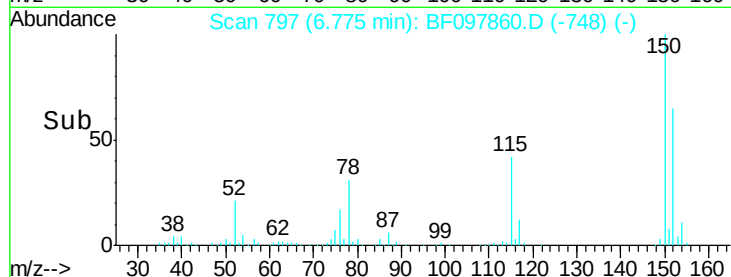
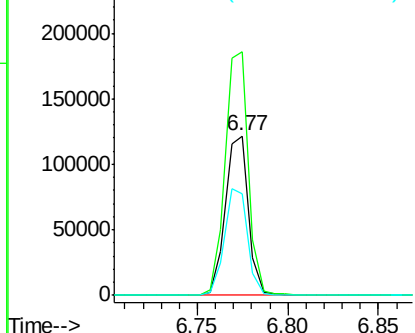
1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 6.77 min Scan# 797
 Delta R.T. -0.01 min
 Lab File: BF097860.D
 Acq: 19 Aug 2017 4:08

Instrument :
 BNA_F
 ClientSampled :
 BC8B4

Tot Ion	152	Resp	107997
Ion Ratio	Lower	Upper	
152	100		
150	152.8	126.2	189.2
115	63.7	52.2	78.2



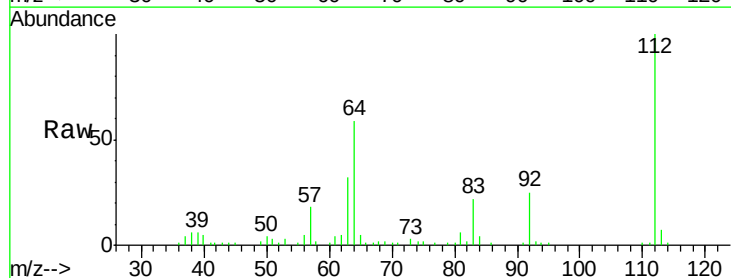
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



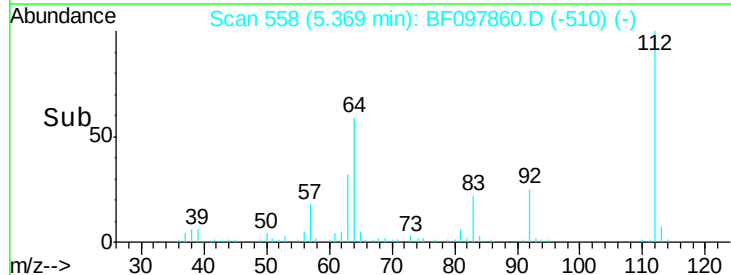
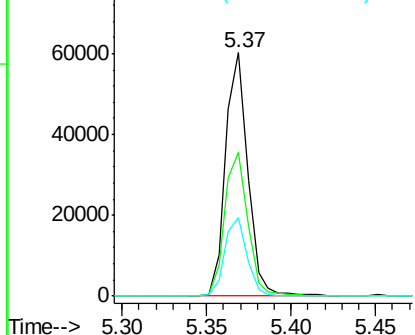
#5

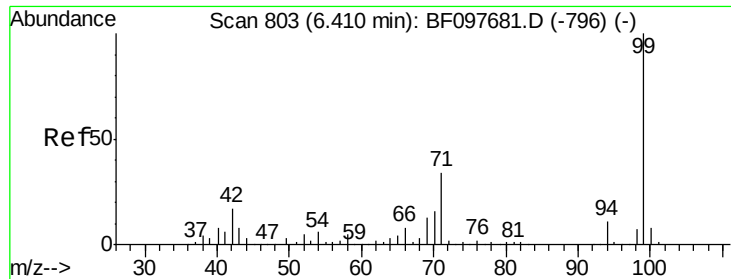
2-Fluorophenol
 Concen: 7.79 ng
 RT: 5.37 min Scan# 558
 Delta R.T. -0.02 min
 Lab File: BF097860.D
 Acq: 19 Aug 2017 4:08

Tgt Ion	112	Resp	55339
Ion Ratio	Lower	Upper	
112	100		
64	59.2	46.0	69.0
63	32.1	23.4	35.0



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: 8.02 ng

RT: 6.39 min Scan# 732

Delta R.T. -0.02 min

Lab File: BF097860.D

Acq: 19 Aug 2017 4:08

Instrument :

BNA_F

ClientSampleId :

BC8B4

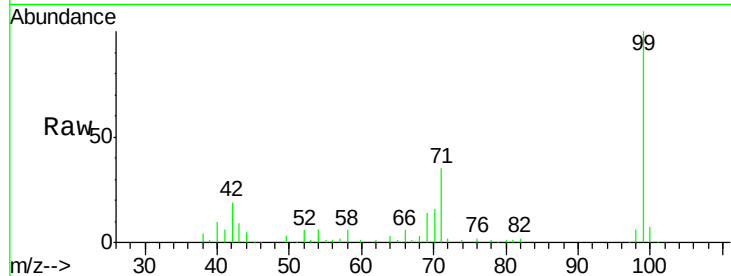
Tot Ion: 99 Resp: 77323

Ion Ratio Lower Upper

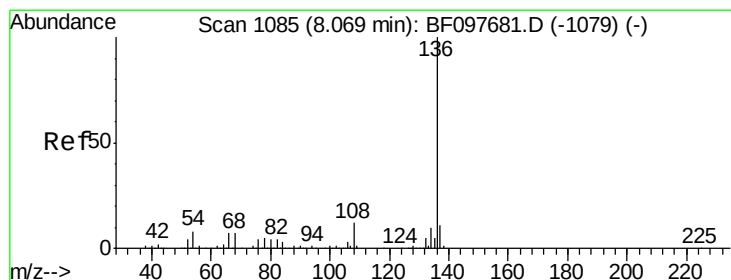
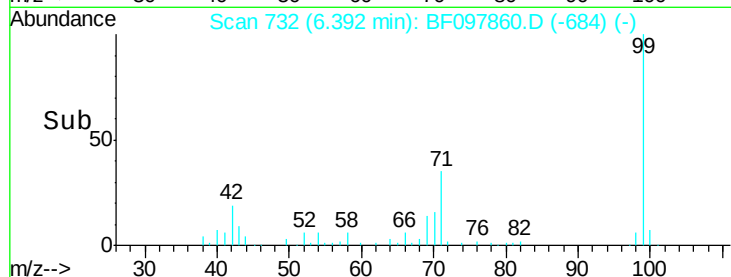
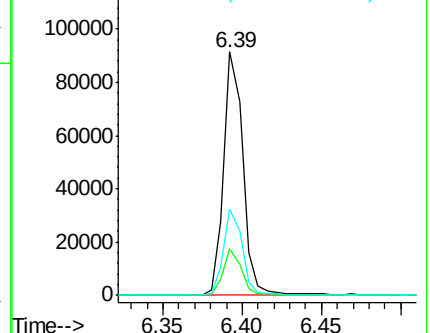
99 100

42 19.0 13.5 20.3

71 35.5 24.5 36.7



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: 8.06 min Scan# 1015

Delta R.T. -0.01 min

Lab File: BF097860.D

Acq: 19 Aug 2017 4:08

Tgt Ion: 136 Resp: 426734

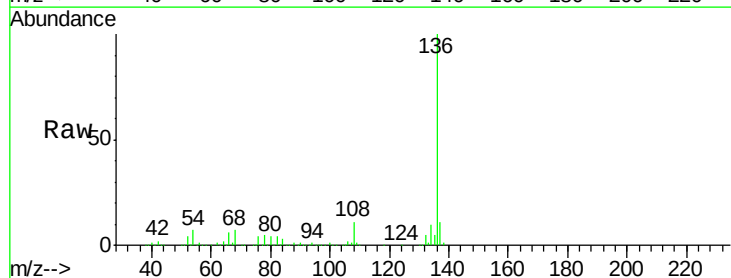
Ion Ratio Lower Upper

136 100

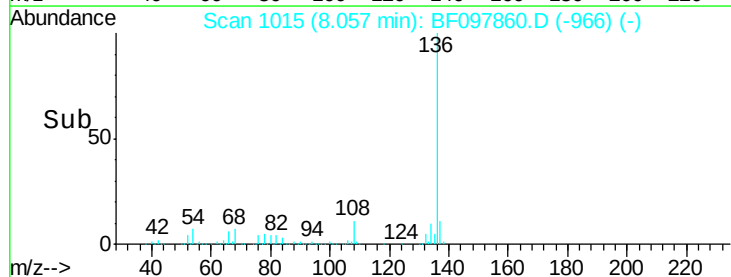
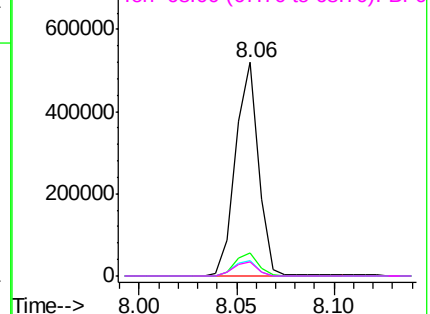
137 10.8 8.5 12.7

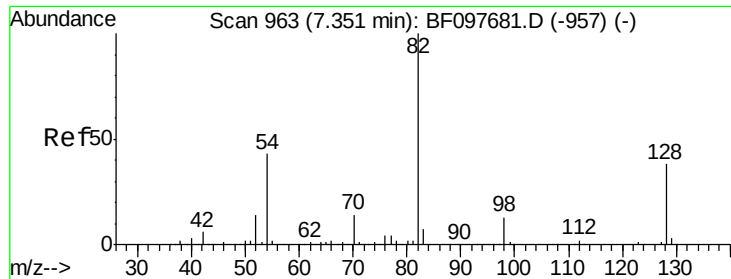
54 7.2 4.9 7.3

68 6.8 4.1 6.1#



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

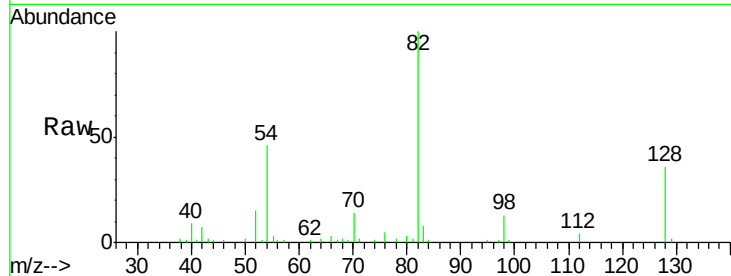




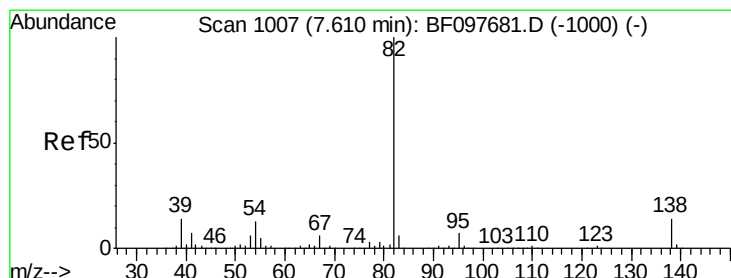
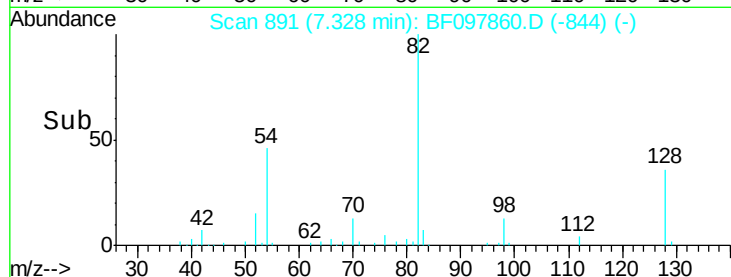
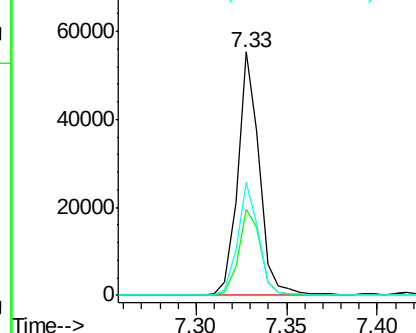
#23
 Nitrobenzene-d5
 Concen: 5.83 ng
 RT: 7.33 min Scan# 891
 Delta R.T. -0.02 min
 Lab File: BF097860.D
 Acq: 19 Aug 2017 4:08

Instrument :
 BNA_F
 ClientSampled :
 BC8B4

Tot Ion	82	Resp	45788
Ion Ratio	Lower	Upper	
82	100		
128	35.6	34.0	51.0
54	46.2	42.2	63.2

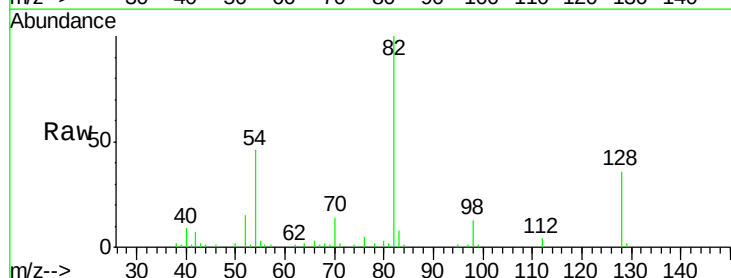


Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 128.00 (127.70 to 128.70): BF0
 Ion 54.00 (53.70 to 54.70): BF0

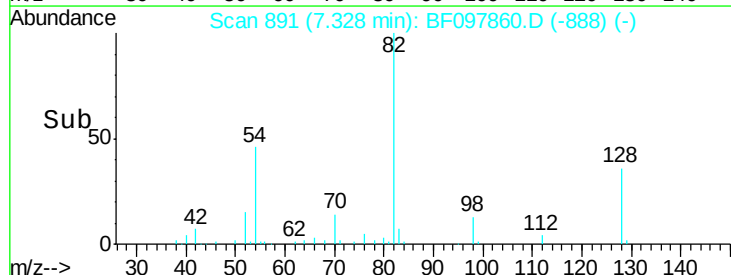
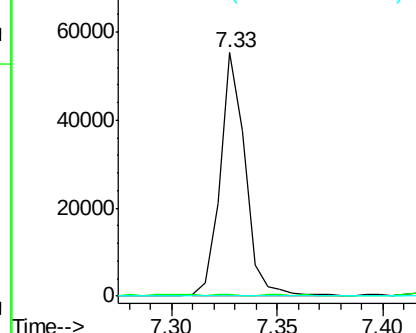


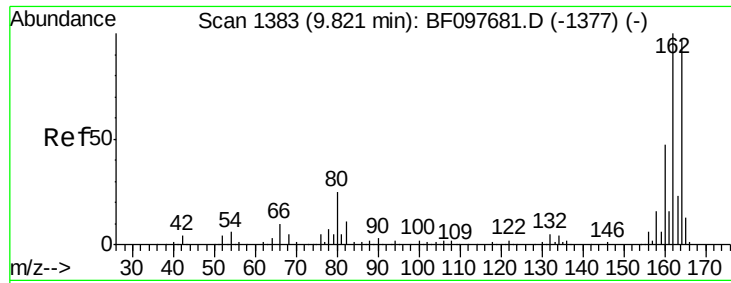
#25
 Isophorone
 Concen: 2.80 ng
 RT: 7.33 min Scan# 891
 Delta R.T. -0.28 min
 Lab File: BF097860.D
 Acq: 19 Aug 2017 4:08

Tgt Ion	82	Resp	45673
Ion Ratio	Lower	Upper	
82	100		
95	0.8	5.3	7.9#
138	0.0	13.1	19.7#



Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 95.00 (94.70 to 95.70): BF0
 Ion 138.00 (137.70 to 138.70): BF0

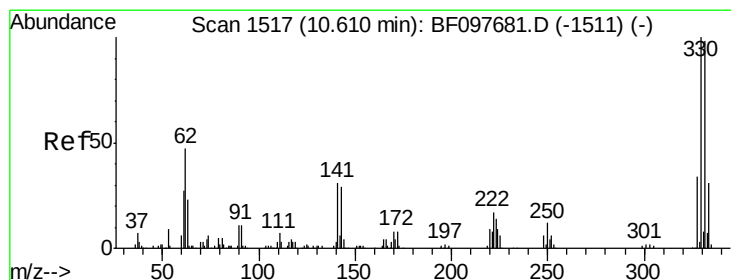
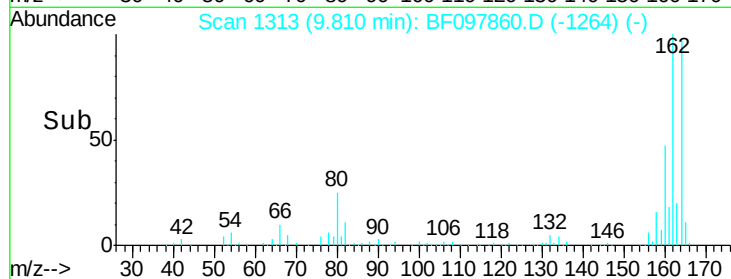
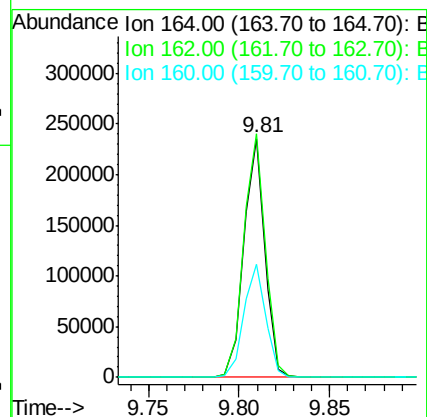
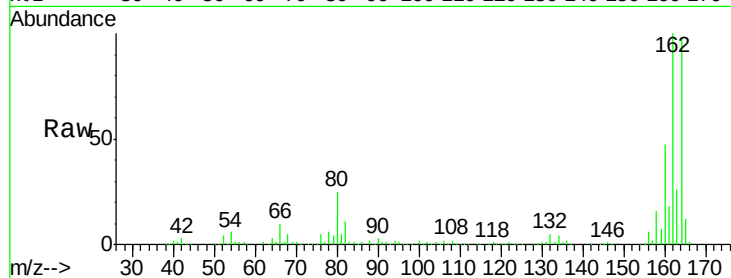




#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.81 min Scan# 1313
 Delta R.T. -0.01 min
 Lab File: BF097860.D
 Acq: 19 Aug 2017 4:08

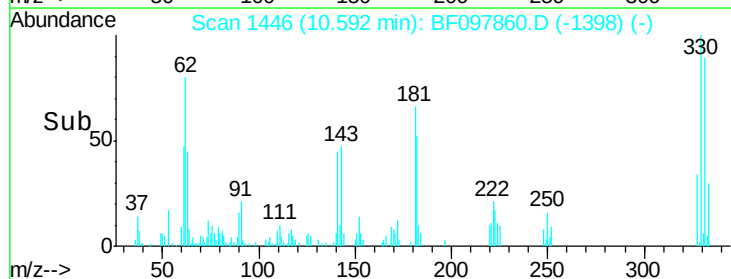
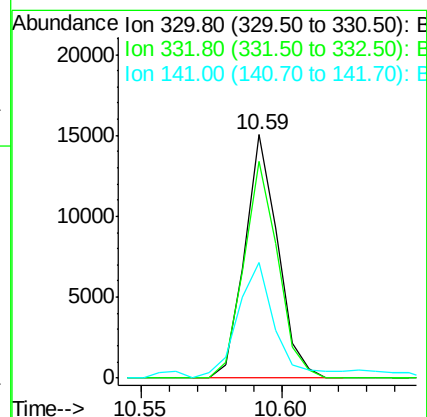
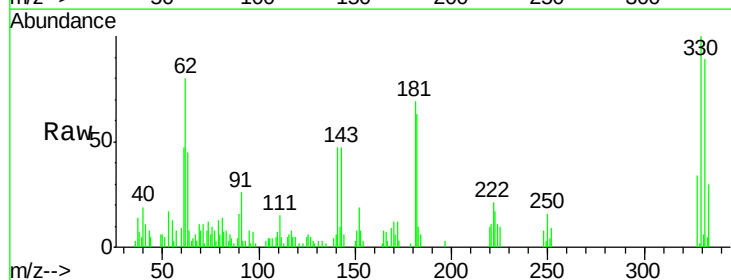
Instrument :
 BNA_F
 ClientSampleId :
 BC8B4

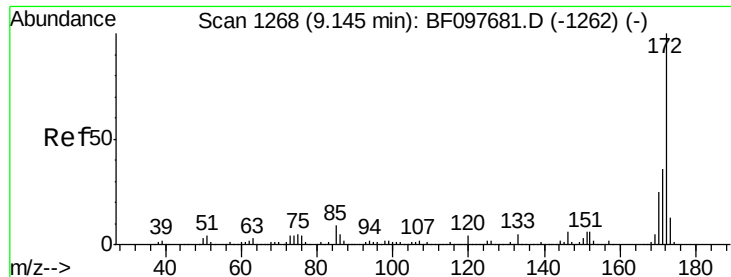
Tot Ion:164 Resp: 189165
 Ion Ratio Lower Upper
 164 100
 162 102.1 82.6 123.8
 160 47.7 36.2 54.2



#41
 2,4,6-Tribromophenol
 Concen: 7.46 ng
 RT: 10.59 min Scan# 1446
 Delta R.T. -0.02 min
 Lab File: BF097860.D
 Acq: 19 Aug 2017 4:08

Tgt Ion:330 Resp: 12251
 Ion Ratio Lower Upper
 330 100
 332 91.4 76.6 115.0
 141 56.2 31.4 47.2#

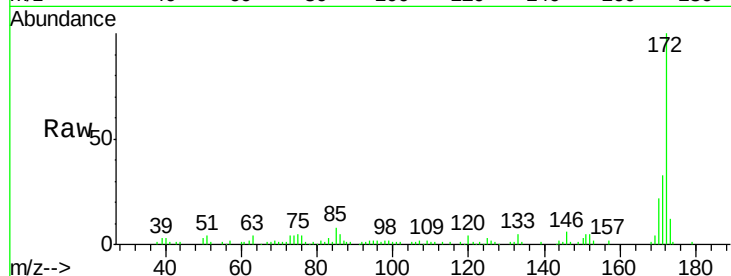




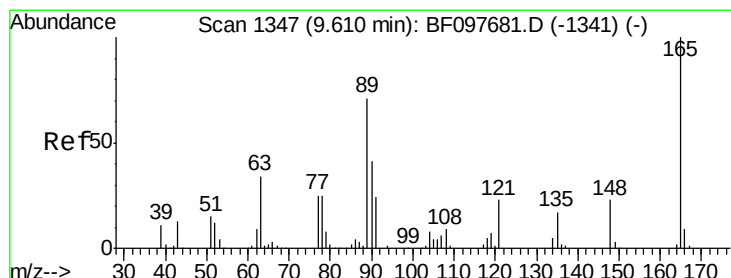
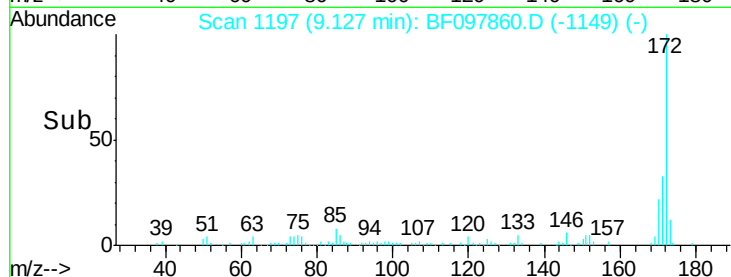
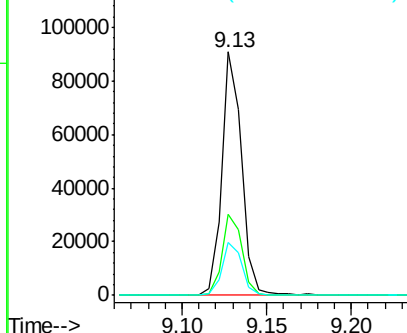
#44
 2-Fluorobiphenyl
 Concen: 5.76 ng
 RT: 9.13 min Scan# 1197
 Delta R.T. -0.02 min
 Lab File: BF097860.D
 Acq: 19 Aug 2017 4:08

Instrument :
 BNA_F
 ClientSampleId :
 BC8B4

Tot Ion	Ratio	Lower	Upper
172	100		
171	33.4	29.6	44.4
170	21.9	19.8	29.8

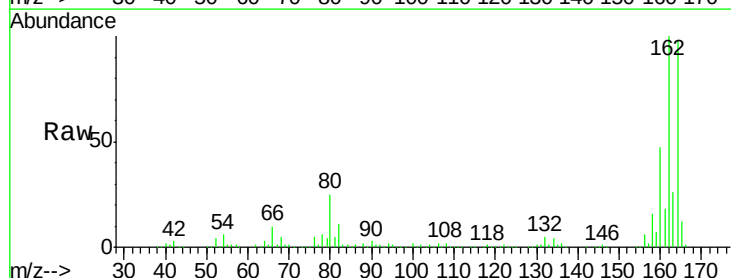


Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

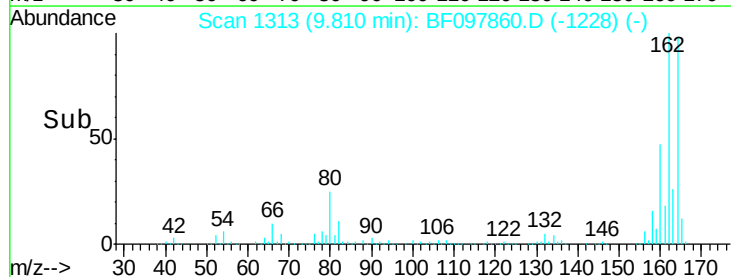
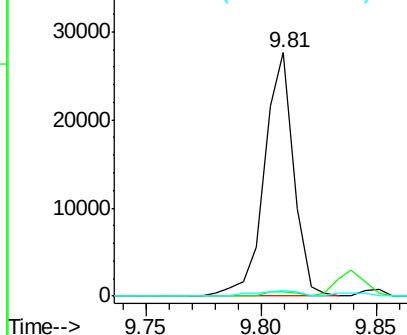


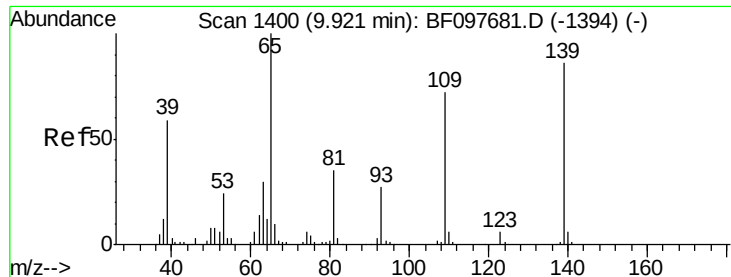
#50
 2,6-Dinitrotoluene
 Concen: 8.83 ng
 RT: 9.81 min Scan# 1313
 Delta R.T. 0.20 min
 Lab File: BF097860.D
 Acq: 19 Aug 2017 4:08

Tgt Ion	Ratio	Lower	Upper
165	100		
63	2.0	34.3	51.5#
89	2.4	37.1	55.7#



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

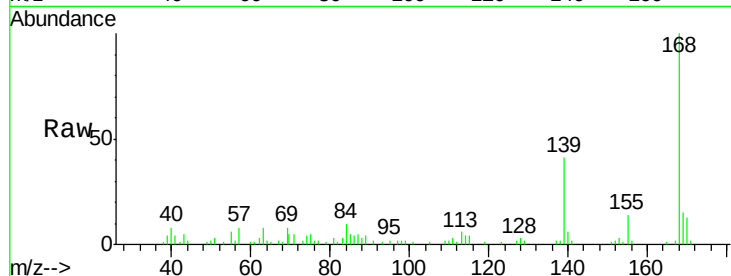




#55
 4-Nitrophenol
 Concen: 4.35 ng
 RT: 10.01 min Scan# 1347
 Delta R.T. 0.09 min
 Lab File: BF097860.D
 Acq: 19 Aug 2017 4:08

Instrument :
 BNA_F
 ClientSampleId :
 BC8B4

Tot Ion	Ratio	Lower	Upper
139	100		
109	4.6	34.1	74.1#
65	2.9	31.4	71.4#

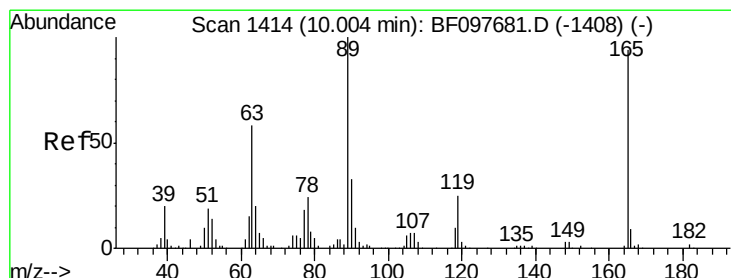
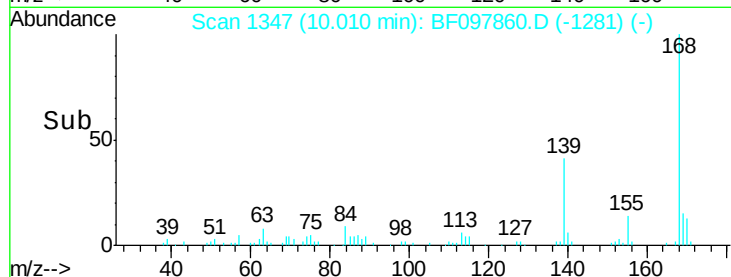
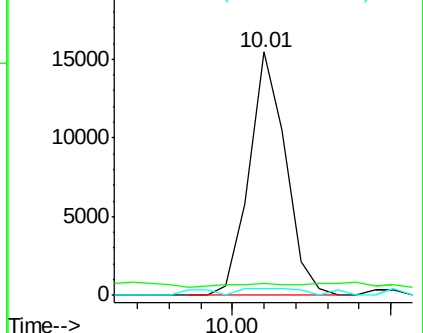


Abundance

Ion 139.00 (138.70 to 139.70): E

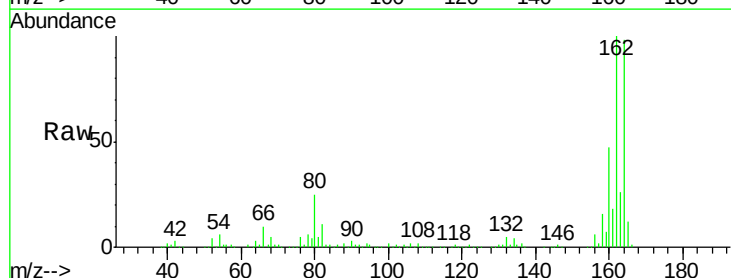
Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): E



#56
 2,4-Dinitrotoluene
 Concen: 7.03 ng
 RT: 9.81 min Scan# 1313
 Delta R.T. -0.19 min
 Lab File: BF097860.D
 Acq: 19 Aug 2017 4:08

Tgt Ion	Ratio	Lower	Upper
165	100		
63	2.0	25.4	38.0#
89	2.4	46.4	69.6#
182	0.0	1.8	2.6#



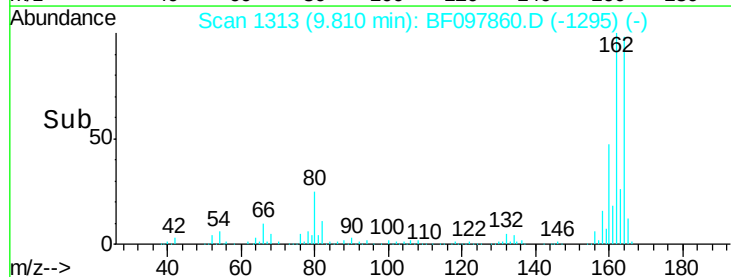
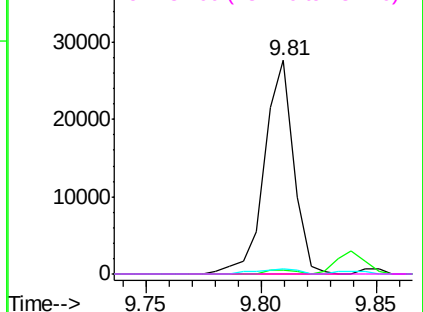
Abundance

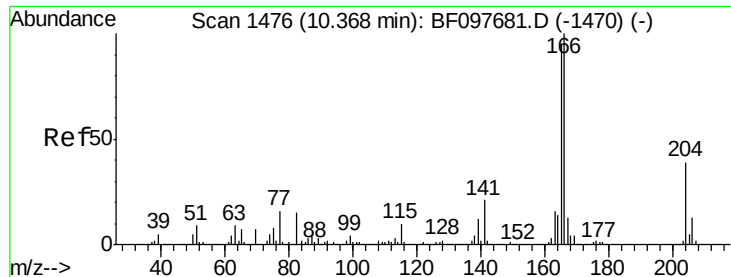
Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): E

Ion 89.00 (88.70 to 89.70): E

Ion 182.00 (181.70 to 182.70): E

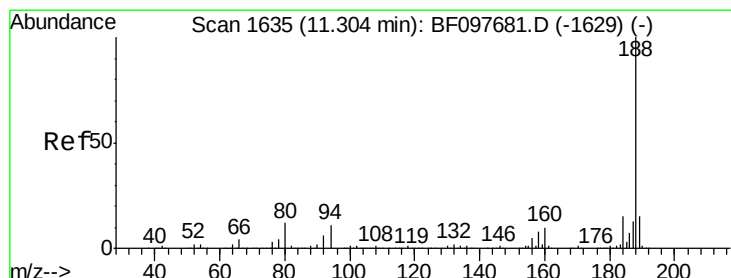
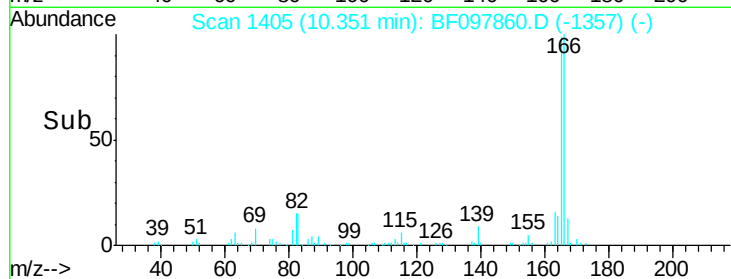
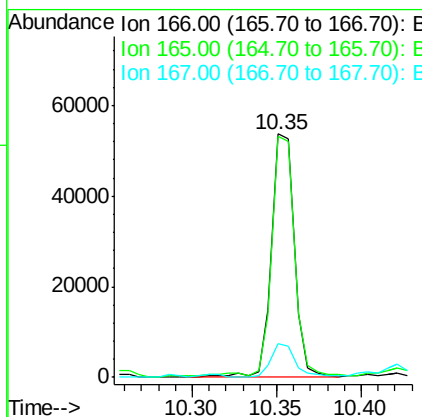
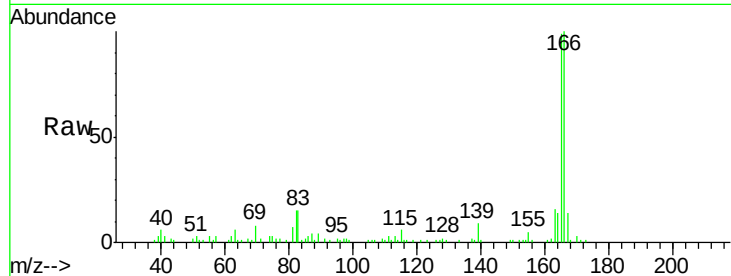




#57
 Fluorene
 Concen: 3.84 ng
 RT: 10.35 min Scan# 1405
 Delta R.T. -0.02 min
 Lab File: BF097860.D
 Acq: 19 Aug 2017 4:08

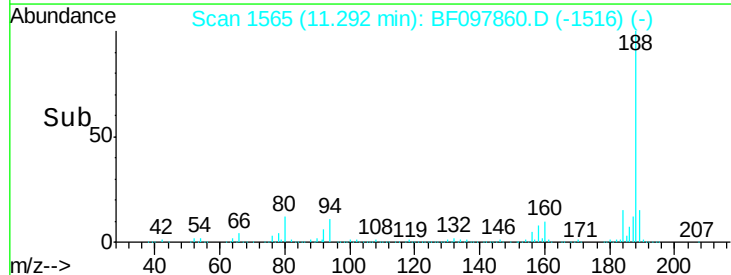
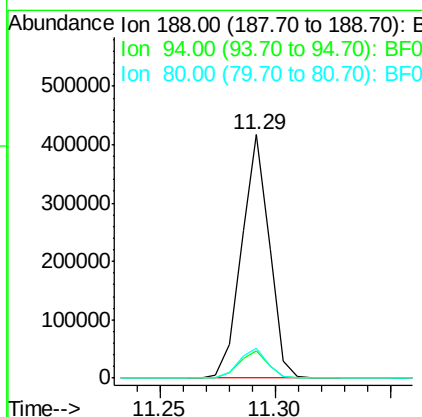
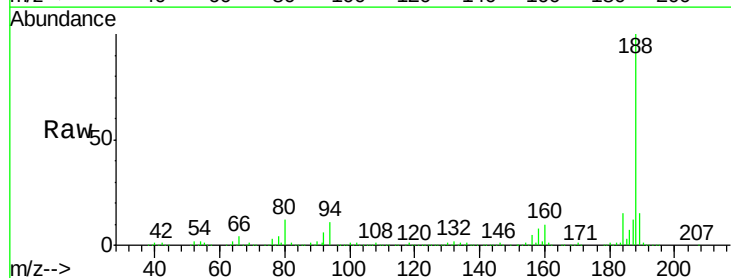
Instrument :
 BNA_F
 ClientSampleId :
 BC8B4

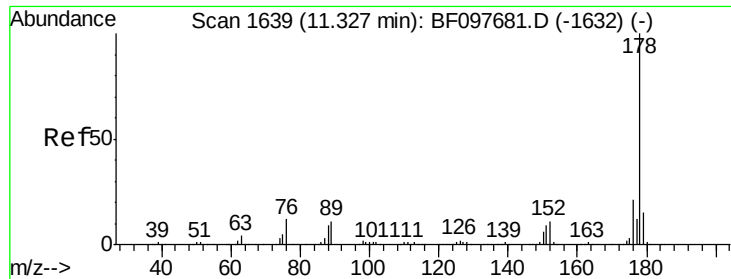
Tot Ion:166 Resp: 50229
 Ion Ratio Lower Upper
 166 100
 165 98.7 78.8 118.2
 167 13.9 10.6 16.0



#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.29 min Scan# 1565
 Delta R.T. -0.01 min
 Lab File: BF097860.D
 Acq: 19 Aug 2017 4:08

Tgt Ion:188 Resp: 347935
 Ion Ratio Lower Upper
 188 100
 94 11.1 9.4 14.2
 80 12.0 10.2 15.2





#70

Phenanthrene

Concen: 17.85 ng

RT: 11.32 min Scan# 1569

Delta R.T. -0.01 min

Lab File: BF097860.D

Acq: 19 Aug 2017 4:08

Instrument :

BNA_F

ClientSampleId :

BC8B4

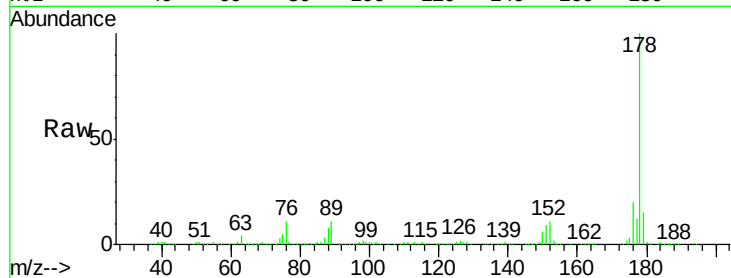
Tot Ion:178 Resp: 330875

Ion Ratio Lower Upper

178 100

176 20.3 16.2 24.4

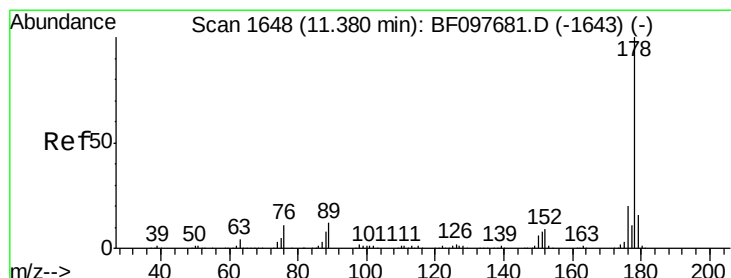
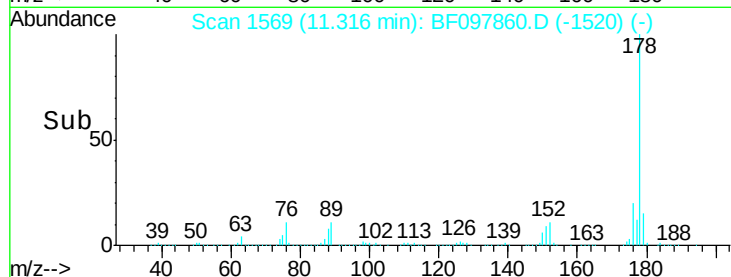
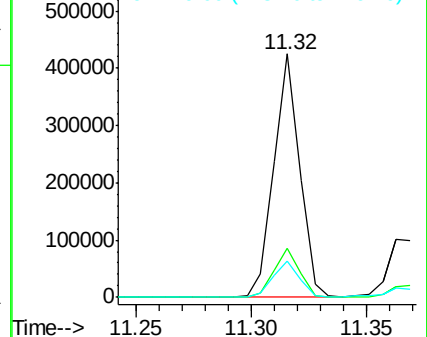
179 15.0 12.6 19.0



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



#71

Anthracene

Concen: 4.80 ng

RT: 11.36 min Scan# 1577

Delta R.T. -0.02 min

Lab File: BF097860.D

Acq: 19 Aug 2017 4:08

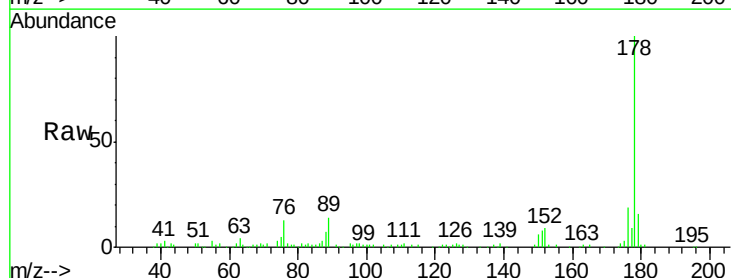
Tgt Ion:178 Resp: 90325

Ion Ratio Lower Upper

178 100

176 19.0 15.8 23.8

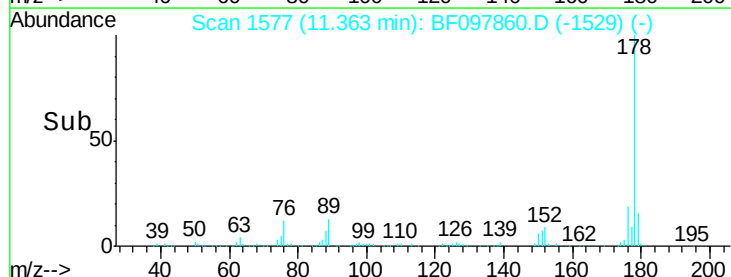
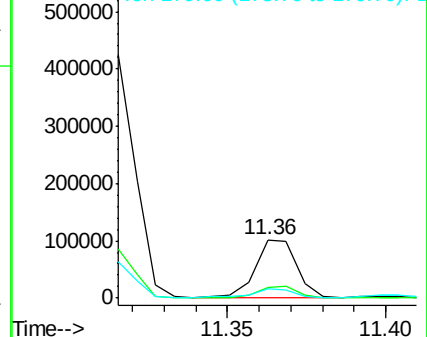
179 15.7 12.7 19.1

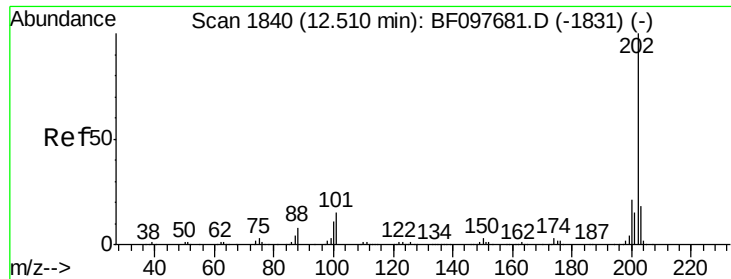


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 16.94 ng

RT: 12.50 min Scan# 1771

Delta R.T. -0.01 min

Lab File: BF097860.D

Acq: 19 Aug 2017 4:08

Instrument :

BNA_F

ClientSampleId :

BC8B4

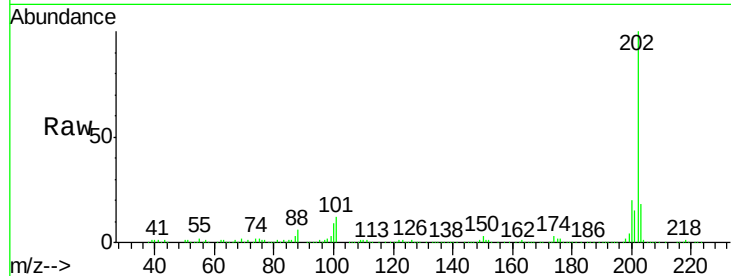
Tot Ion:202 Resp: 327821

Ion Ratio Lower Upper

202 100

101 12.1 0.0 33.2

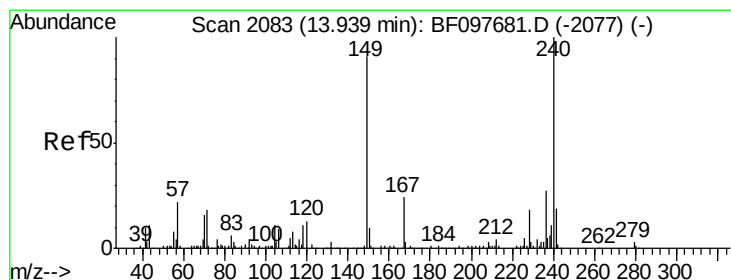
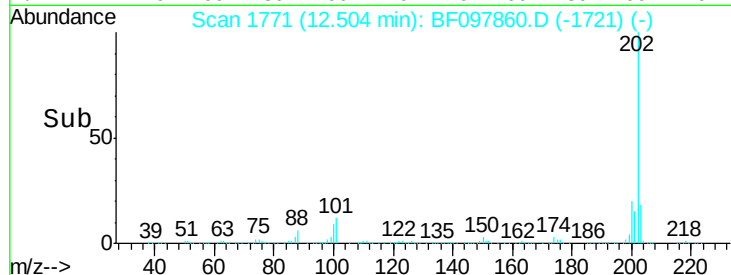
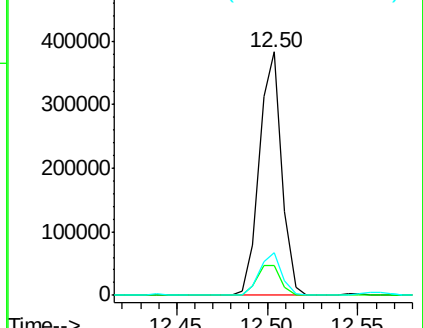
203 17.6 0.0 38.1



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: 13.93 min Scan# 2013

Delta R.T. -0.01 min

Lab File: BF097860.D

Acq: 19 Aug 2017 4:08

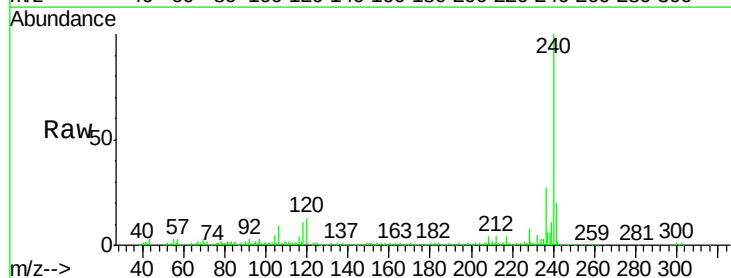
Tgt Ion:240 Resp: 281600

Ion Ratio Lower Upper

240 100

120 13.3 5.8 8.8#

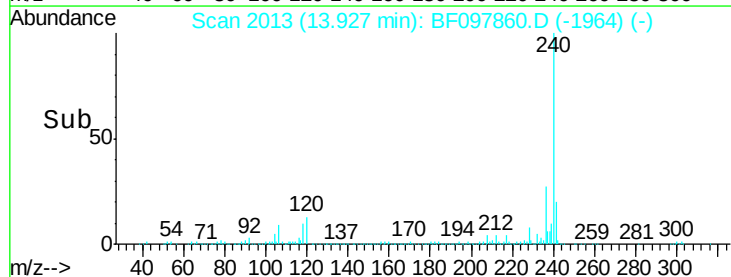
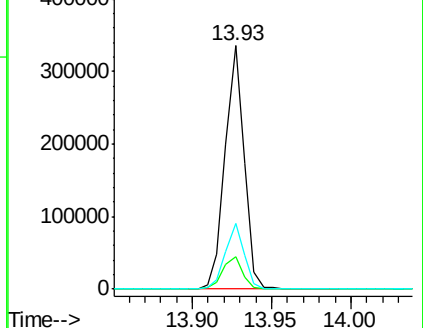
236 26.9 20.5 30.7

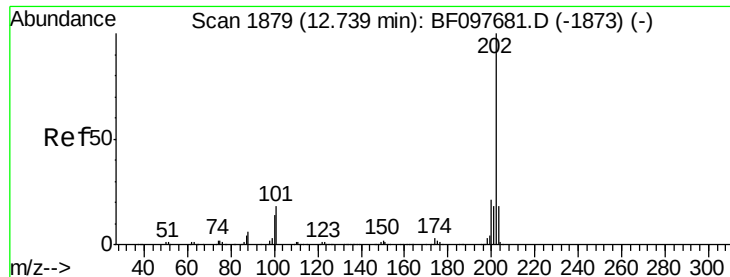


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 12.13 ng

RT: 12.73 min Scan# 1809

Delta R.T. -0.01 min

Lab File: BF097860.D

Acq: 19 Aug 2017 4:08

Instrument :

BNA_F

ClientSampleId :

BC8B4

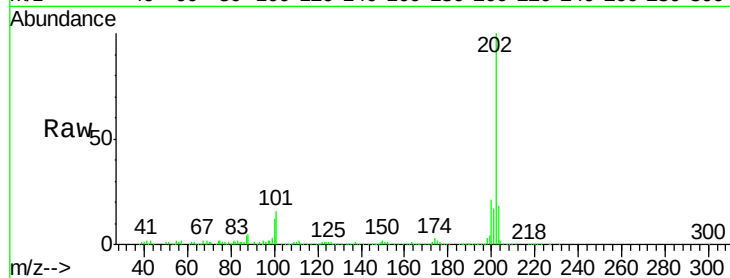
Tot Ion:202 Resp: 279455

Ion Ratio Lower Upper

202 100

200 20.7 17.6 26.4

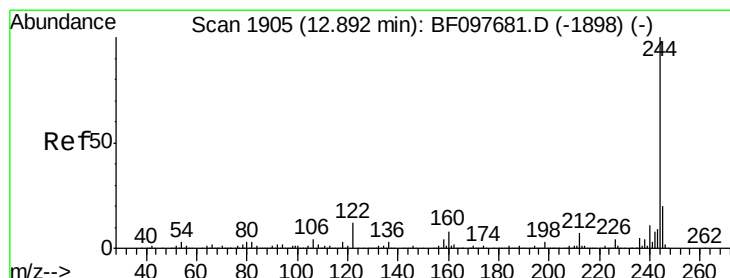
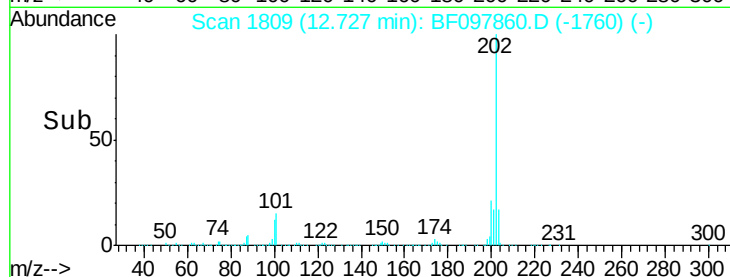
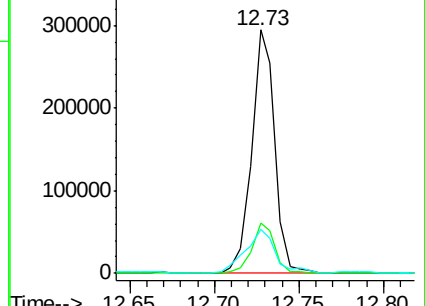
203 17.8 14.4 21.6



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: 4.36 ng

RT: 12.87 min Scan# 1834

Delta R.T. -0.02 min

Lab File: BF097860.D

Acq: 19 Aug 2017 4:08

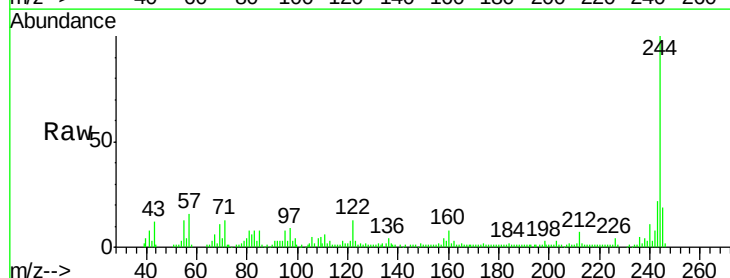
Tgt Ion:244 Resp: 58943

Ion Ratio Lower Upper

244 100

212 6.9 6.0 9.0

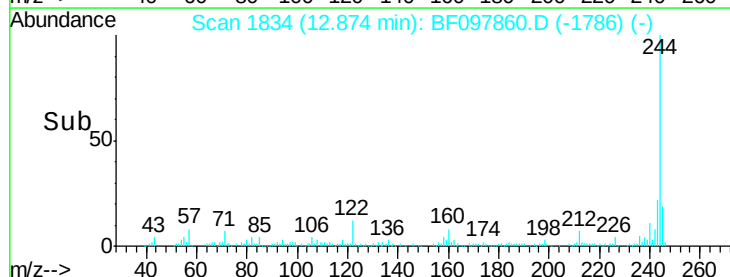
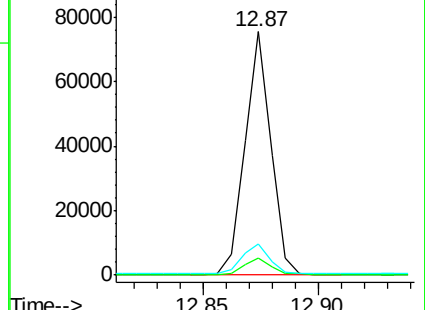
122 12.8 10.3 15.5

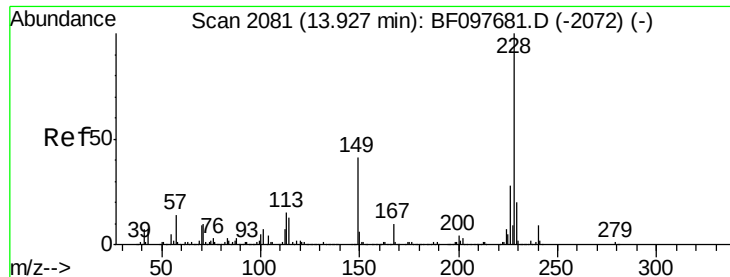


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

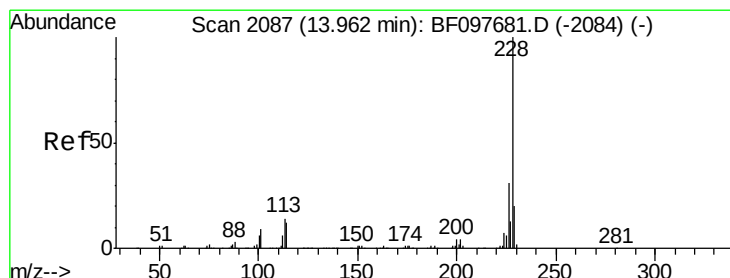
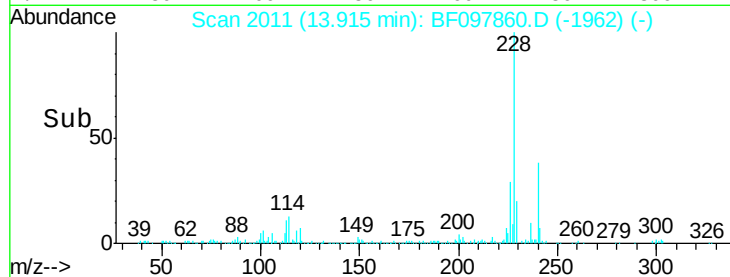
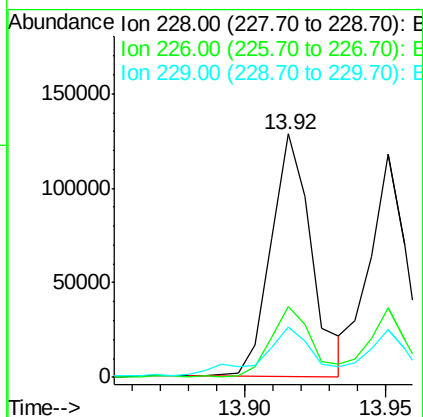
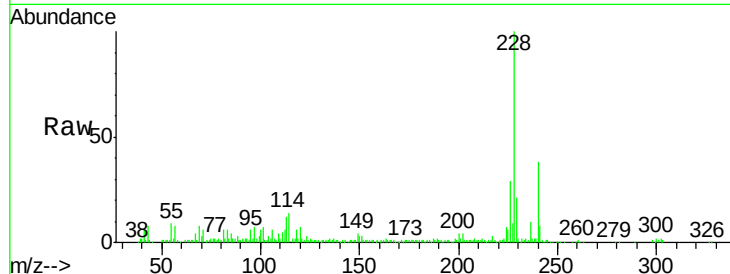




#80
Benzo(a)anthracene
Concen: 7.57 ng
RT: 13.92 min Scan# 2011
Delta R.T. -0.01 min
Lab File: BF097860.D
Acq: 19 Aug 2017 4:08

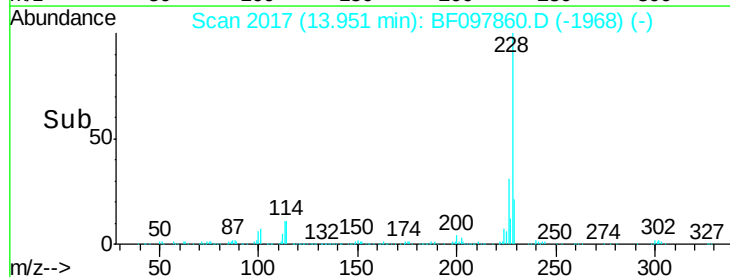
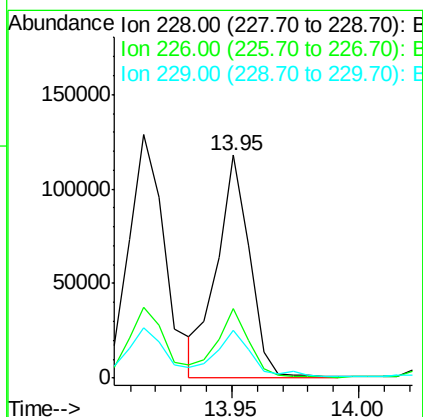
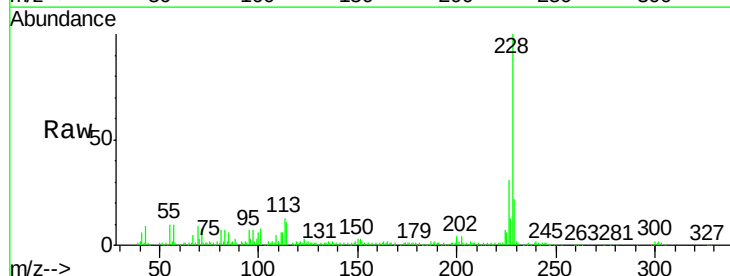
Instrument :
BNA_F
ClientSampleId :
BC8B4

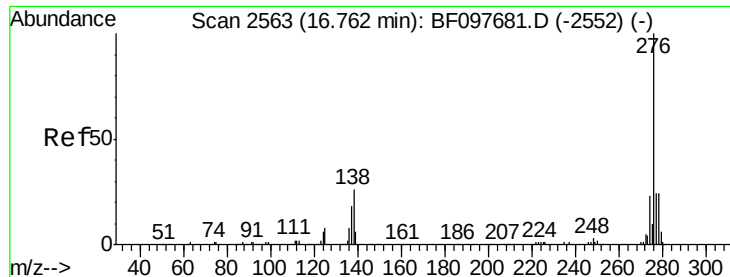
Tot Ion	Ratio	Lower	Upper
228	100		
226	29.2	22.6	33.8
229	20.8	16.3	24.5



#82
Chrysene
Concen: 6.26 ng
RT: 13.95 min Scan# 2017
Delta R.T. -0.01 min
Lab File: BF097860.D
Acq: 19 Aug 2017 4:08

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.4	24.9	37.3
229	21.6	15.8	23.6





#85

Indeno(1,2,3-cd)pyrene

Concen: 3.21 ng

RT: 16.75 min Scan# 2493

Delta R.T. -0.01 min

Lab File: BF097860.D

Acq: 19 Aug 2017 4:08

Instrument :

BNA_F

ClientSampleId :

BC8B4

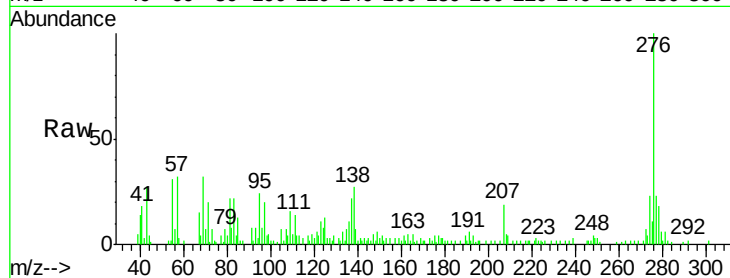
Tot Ion:276 Resp: 39600

Ion Ratio Lower Upper

276 100

138 26.2 27.8 41.6#

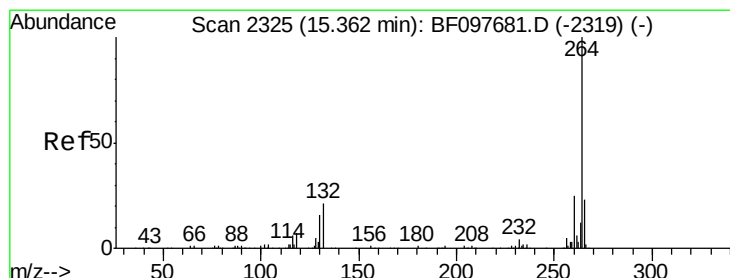
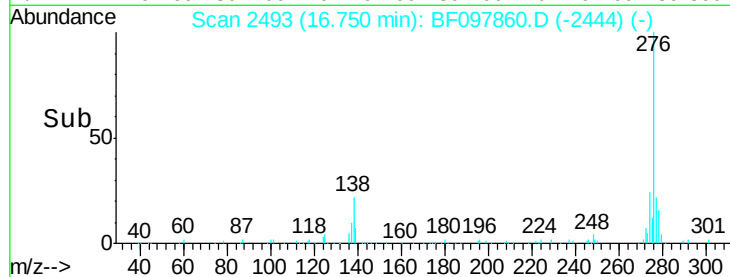
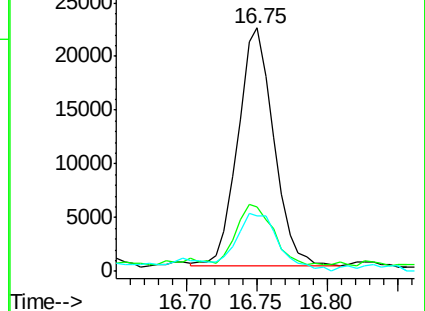
277 28.8 20.2 30.4



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#86

Perylene-d12

Concen: 20.00 ng

RT: 15.36 min Scan# 2256

Delta R.T. -0.01 min

Lab File: BF097860.D

Acq: 19 Aug 2017 4:08

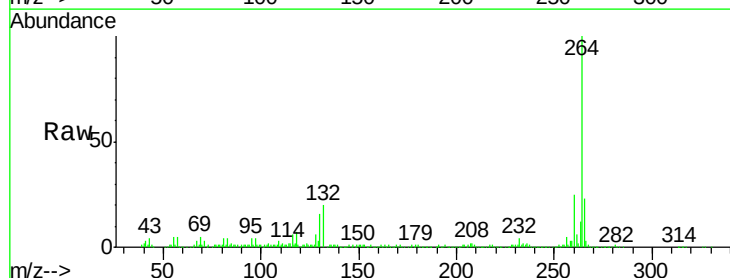
Tgt Ion:264 Resp: 240051

Ion Ratio Lower Upper

264 100

260 25.4 19.5 29.3

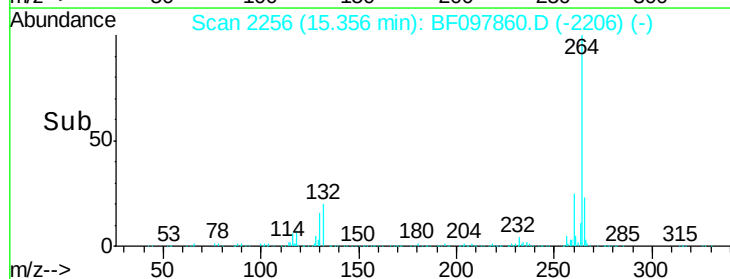
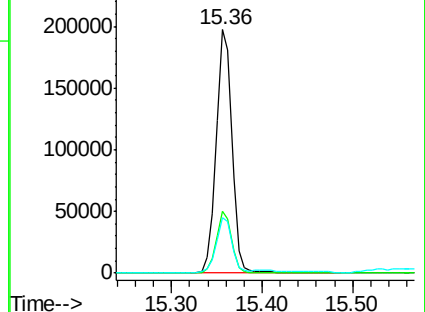
265 22.9 17.2 25.8

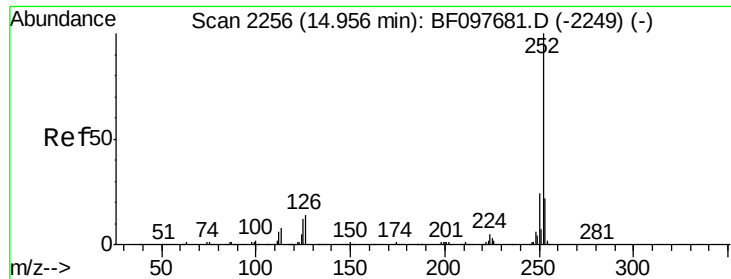


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

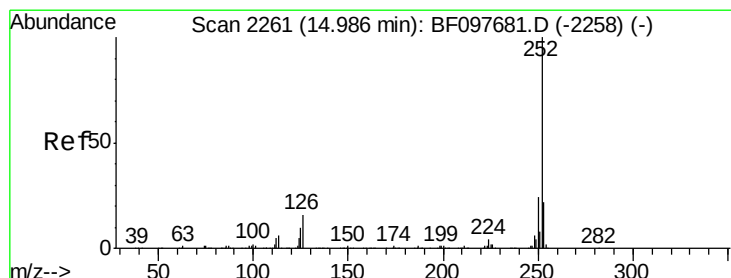
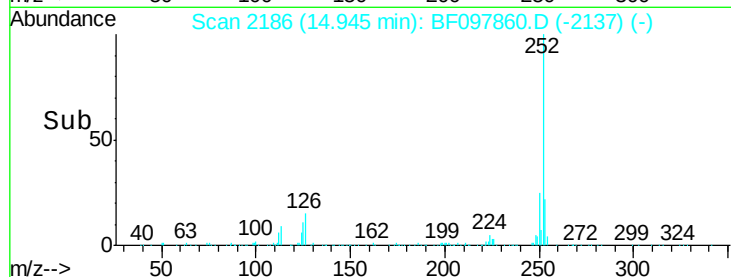
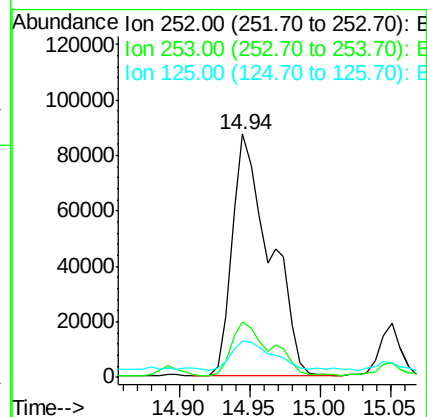
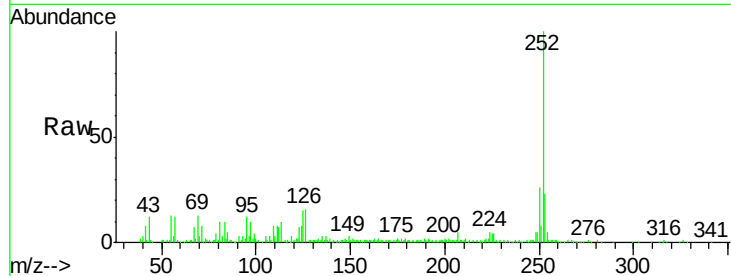




#87
Benzo(b)fluoranthene
Concen: 10.79 ng
RT: 14.94 min Scan# 2186
Delta R.T. -0.01 min
Lab File: BF097860.D
Acq: 19 Aug 2017 4:08

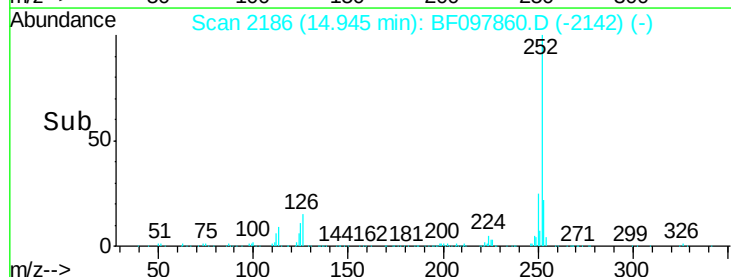
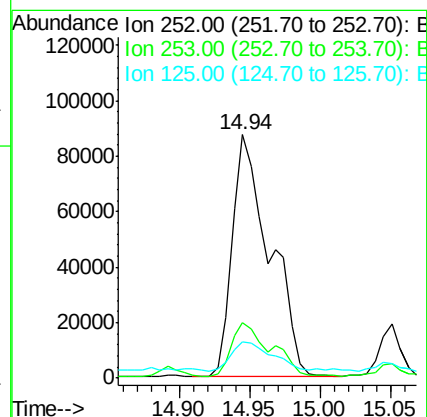
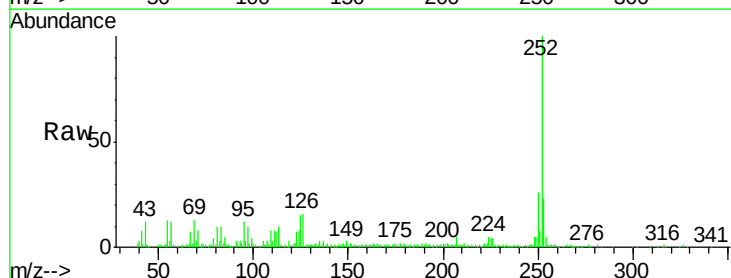
Instrument :
BNA_F
ClientSampleId :
BC8B4

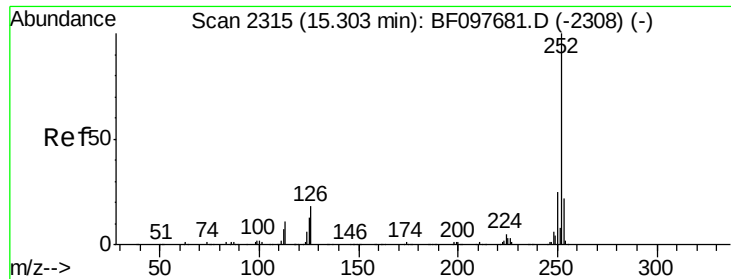
Tot Ion	Ratio	Lower	Upper
252	100		
253	22.8	18.1	27.1
125	14.8	9.8	14.8#



#88
Benzo(k)fluoranthene
Concen: 11.48 ng
RT: 14.94 min Scan# 2186
Delta R.T. -0.04 min
Lab File: BF097860.D
Acq: 19 Aug 2017 4:08

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	18.4	27.6
125	14.8	13.1	19.7





#89

Benzo(a)pyrene

Concen: 6.24 ng

RT: 15.30 min Scan# 2246

Delta R.T. -0.01 min

Lab File: BF097860.D

Acq: 19 Aug 2017 4:08

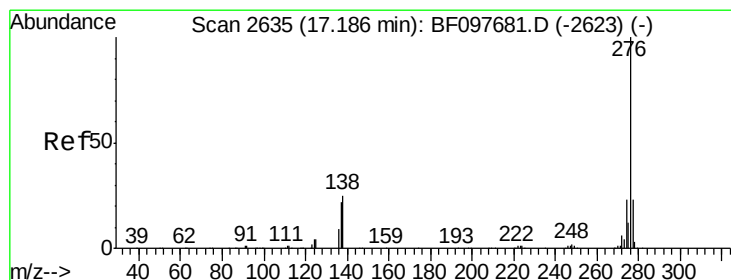
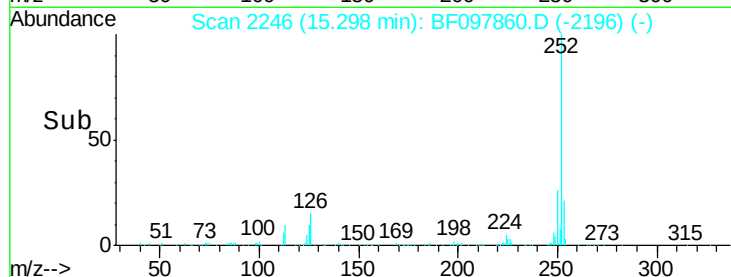
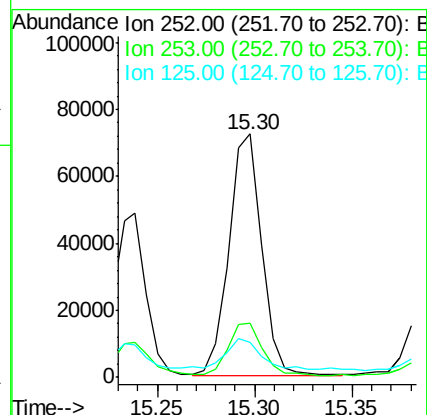
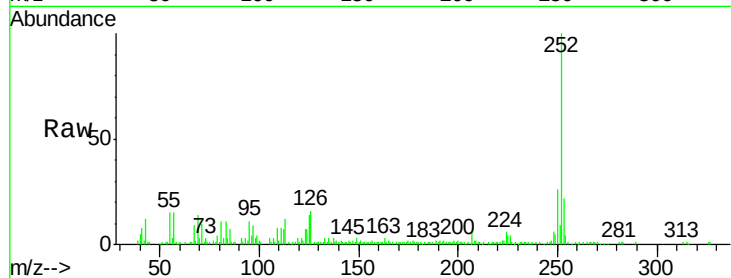
Instrument :

BNA_F

ClientSampled :

BC8B4

Tot Ion:252	Resp:	83582
Ion Ratio	Lower	Upper
252	100	
253	22.0	17.5 26.3
125	14.2	11.0 16.4



#91

Benzo(g,h,i)perylene

Concen: 3.34 ng

RT: 17.17 min Scan# 2564

Delta R.T. -0.02 min

Lab File: BF097860.D

Acq: 19 Aug 2017 4:08

Tgt Ion:276	Resp:	37950
Ion Ratio	Lower	Upper
276	100	
277	23.3	18.6 28.0
138	28.2	25.4 38.0

