

Data Path : Z:\HPCHEM1\BNA F\DATA\BF082817\
 Data File : BF098106.D
 Acq On : 29 Aug 2017 10:16
 Operator : SJ/JU
 Sample : I4961-12DL 100X
 Misc :
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-03-COMPDL

Quant Time: Aug 29 13:42:09 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 21 15:59:04 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.74	152	95059	20.00	ng	-0.01
21) Naphthalene-d8	8.02	136	372612	20.00	ng	-0.01
38) Acenaphthene-d10	9.77	164	162975	20.00	ng	-0.01
63) Phenanthrene-d10	11.26	188	320101	20.00	ng	0.00
75) Chrysene-d12	13.89	240	262039	20.00	ng	-0.01
86) Perylene-d12	15.31	264	265205	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.34	112	10930	1.75	ng	-0.01
7) Phenol-d6	6.37	99	16048	1.89	ng	-0.02
23) Nitrobenzene-d5	7.30	82	9208	1.34	ng	-0.02
41) 2,4,6-Tribromophenol	10.56	330	2067	1.46	ng	-0.01
44) 2-Fluorobiphenyl	9.10	172	14757	1.33	ng	-0.01
78) Terphenyl-d14	12.83	244	13907	1.11	ng	-0.02

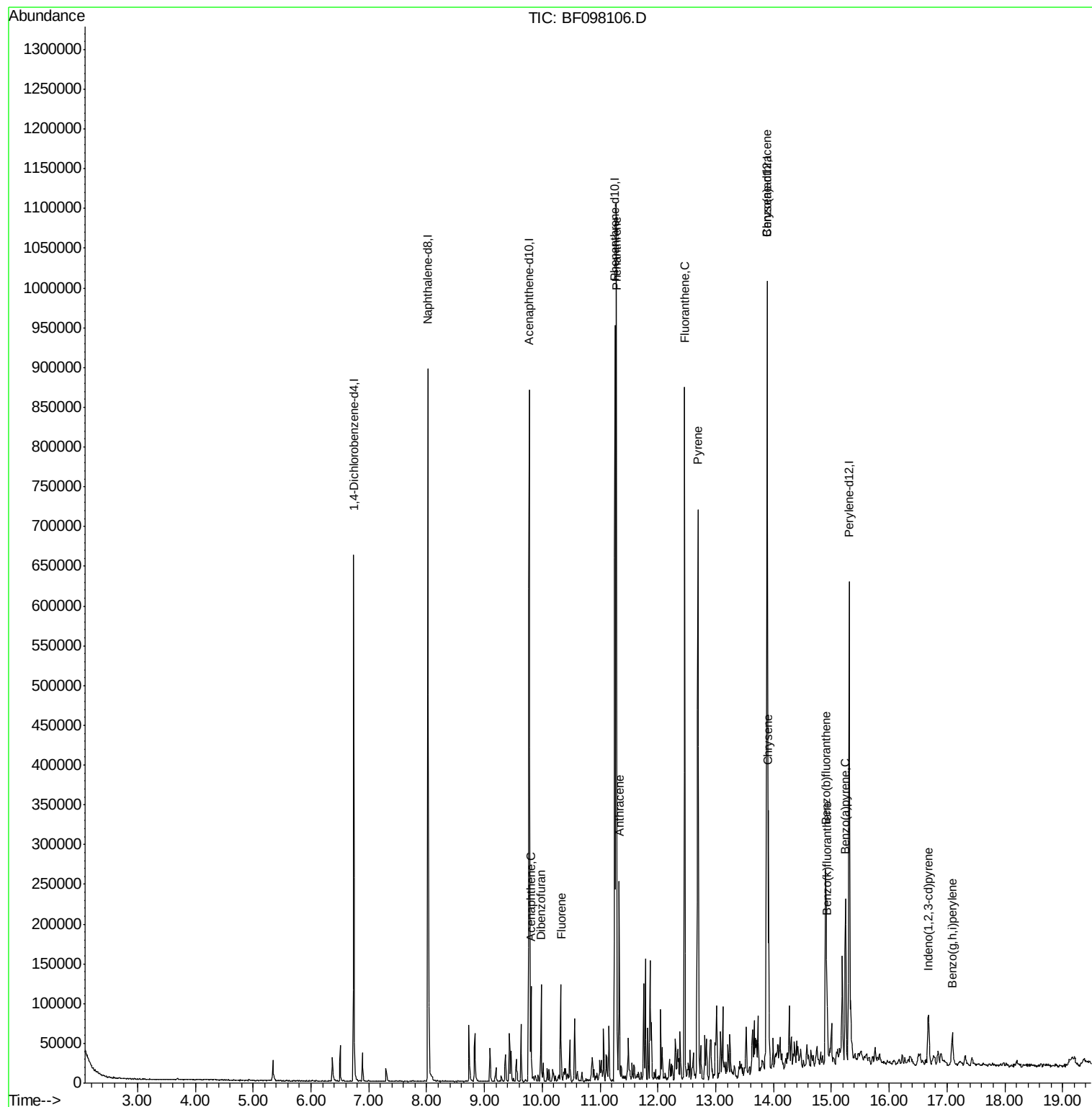
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
51) Acenaphthene	9.80	154	22673	2.085	ng	98
54) Dibenzofuran	9.98	168	46718	3.205	ng	97
57) Fluorene	10.32	166	37965	3.369	ng	98
70) Phenanthrene	11.28	178	369854	21.683	ng	99
71) Anthracene	11.33	178	93766	5.420	ng	98
74) Fluoranthene	12.46	202	340225	19.110	ng	98
77) Pyrene	12.69	202	280868	13.105	ng	99
80) Benzo(a)anthracene	13.88	228	134525	8.566	ng	97
82) Chrysene	13.91	228	117486	7.520	ng	97
85) Indeno(1,2,3-cd)pyrene	16.68	276	40046	3.484	ng	# 92
87) Benzo(b)fluoranthene	14.90	252	116333m	6.959	ng	
88) Benzo(k)fluoranthene	14.93	252	50165m	3.194	ng	
89) Benzo(a)pyrene	15.24	252	91183	6.161	ng	97
91) Benzo(a,h,i)perylene	17.09	276	32779	2.607	ng	95

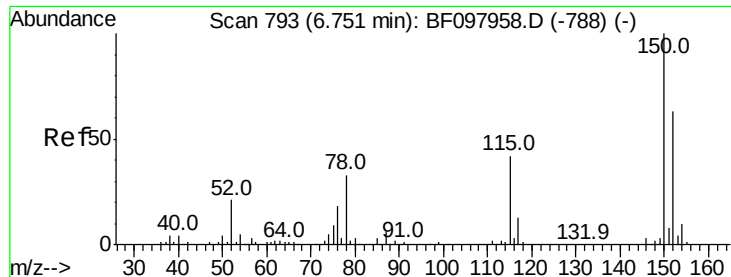
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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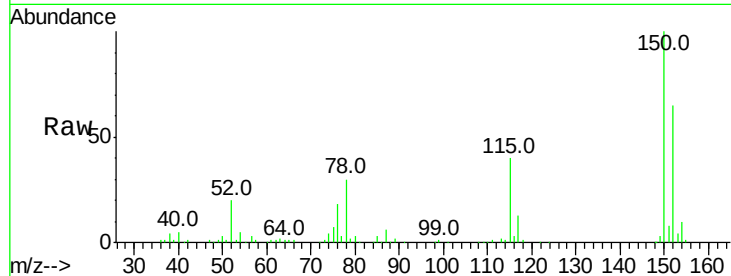


#1

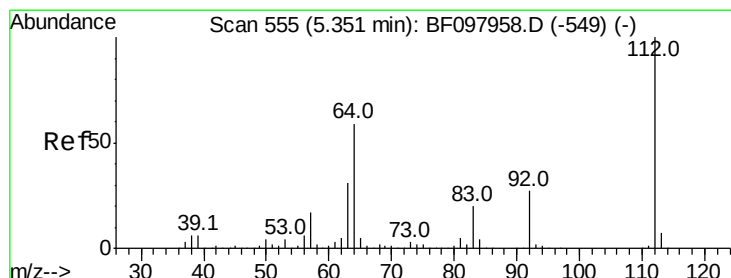
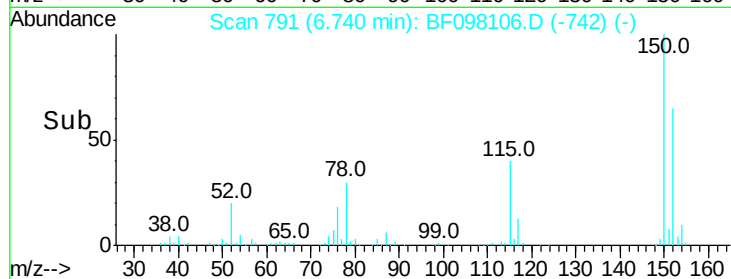
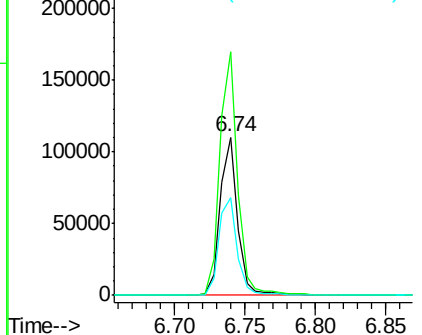
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.74 min Scan# 791
Delta R.T. -0.01 min
Lab File: BF098106.D
Acq: 29 Aug 2017 10:16

Instrument :
BNA_F
ClientSampleId :
SB-03-COMPDL

Tot Ion:152 Resp: 95059
Ion Ratio Lower Upper
152 100
150 154.2 126.2 189.2
115 62.2 52.2 78.2



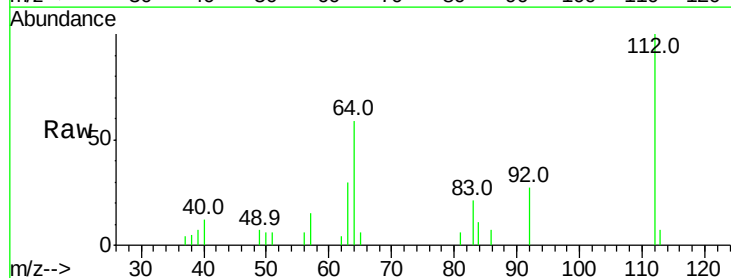
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



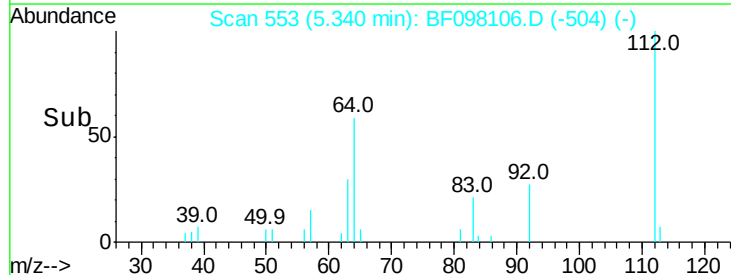
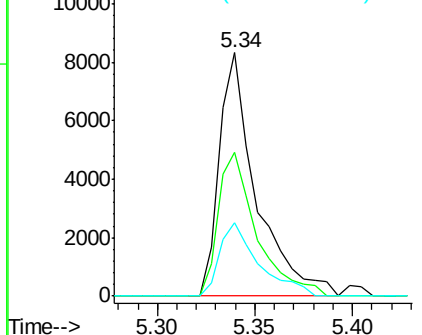
#5

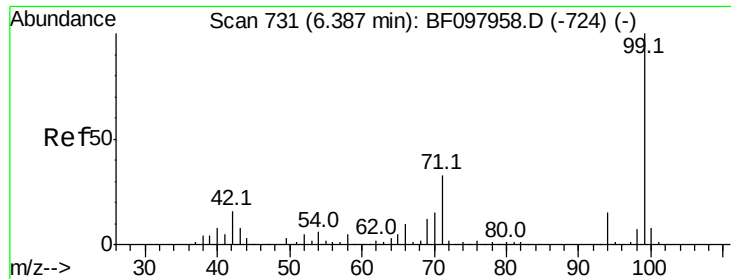
2-Fluorophenol
Concen: 1.749 ng
RT: 5.34 min Scan# 553
Delta R.T. -0.01 min
Lab File: BF098106.D
Acq: 29 Aug 2017 10:16

Tgt Ion:112 Resp: 10930
Ion Ratio Lower Upper
112 100
64 58.9 46.0 69.0
63 29.9 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: 1.890 ng

RT: 6.37 min Scan# 728

Delta R.T. -0.02 min

Lab File: BF098106.D

Acq: 29 Aug 2017 10:16

Instrument :

BNA_F

ClientSampleId :

SB-03-COMPDL

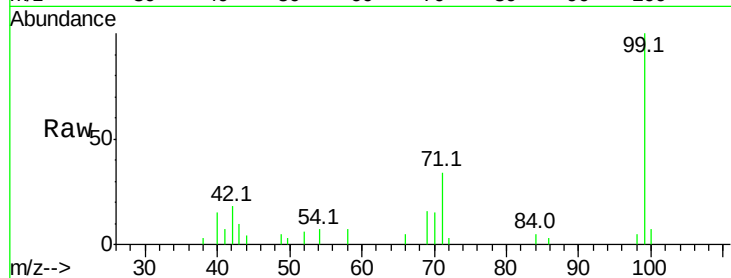
Tot Ion: 99 Resp: 16048

Ion Ratio Lower Upper

99 100

42 18.0 13.5 20.3

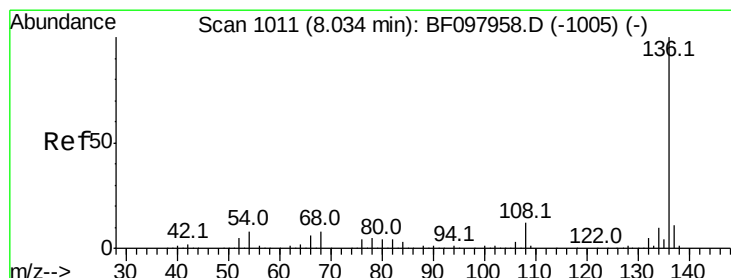
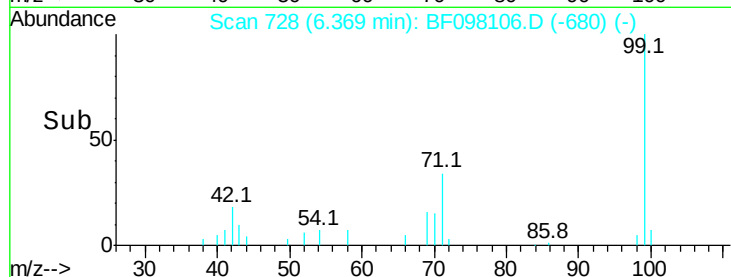
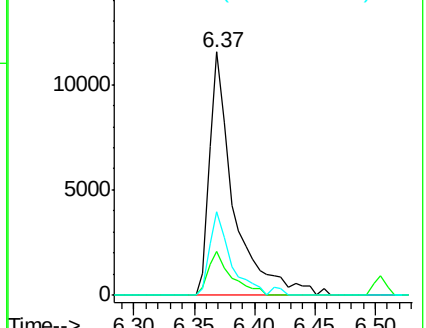
71 34.1 24.5 36.7



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: 20.000 ng

RT: 8.02 min Scan# 1009

Delta R.T. -0.01 min

Lab File: BF098106.D

Acq: 29 Aug 2017 10:16

Tgt Ion: 136 Resp: 372612

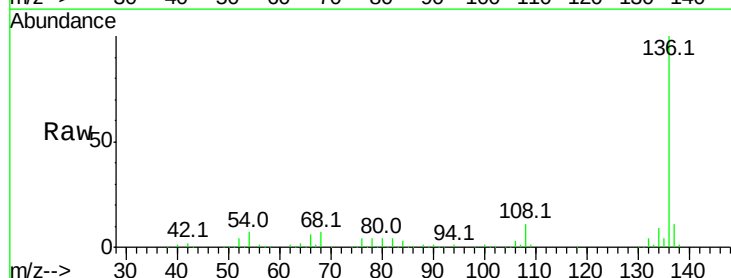
Ion Ratio Lower Upper

136 100

137 10.9 8.5 12.7

54 7.5 4.9 7.3#

68 6.9 4.1 6.1#

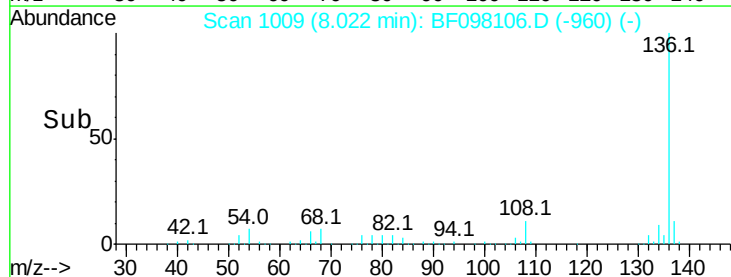
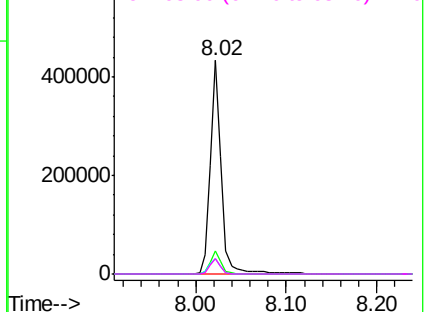


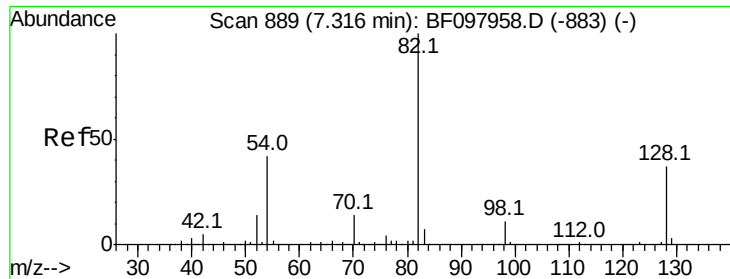
Abundance Ion 136.00 (135.70 to 136.70): E

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

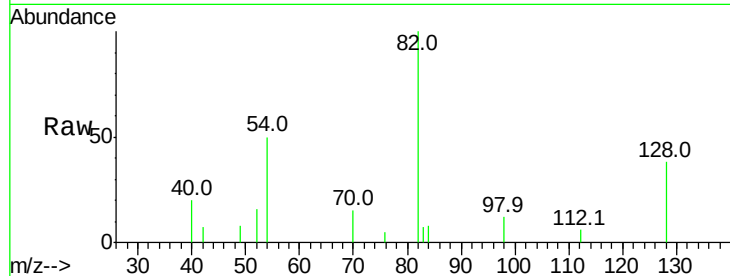




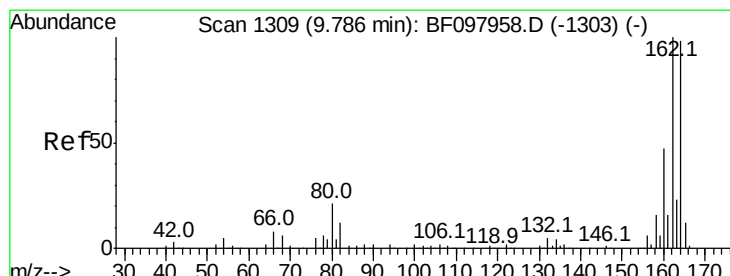
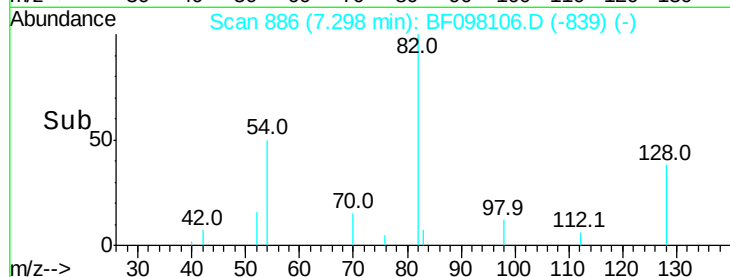
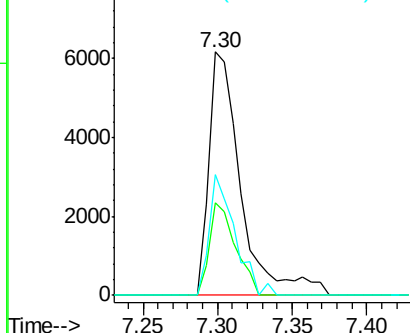
#23
 Nitrobenzene-d5
 Concen: 1.342 ng
 RT: 7.30 min Scan# 886
 Delta R.T. -0.02 min
 Lab File: BF098106.D
 Acq: 29 Aug 2017 10:16

Instrument :
 BNA_F
 ClientSampleId :
 SB-03-COMPDL

Tot Ion: 82 Resp: 9208
 Ion Ratio Lower Upper
 82 100
 128 38.1 34.0 51.0
 54 49.6 42.2 63.2

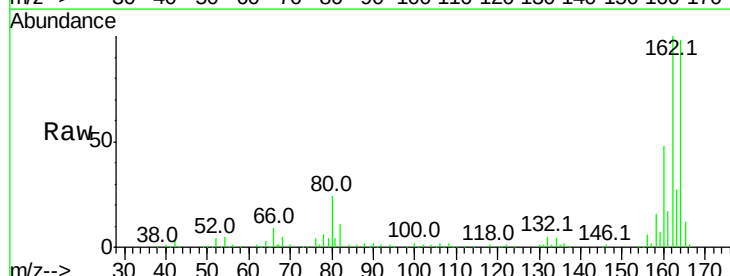


Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 128.00 (127.70 to 128.70): E
 Ion 54.00 (53.70 to 54.70): BF0

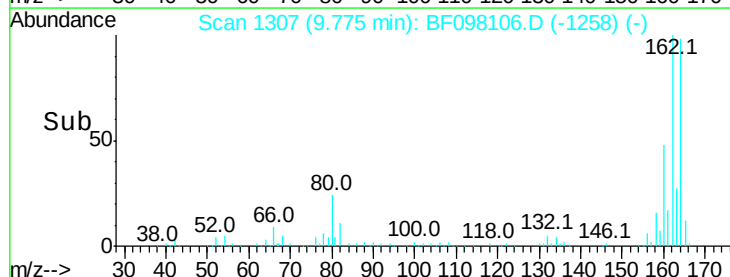
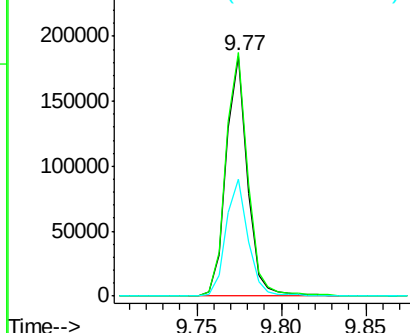


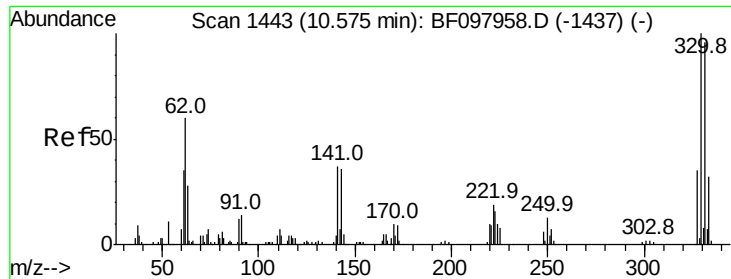
#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.77 min Scan# 1307
 Delta R.T. -0.01 min
 Lab File: BF098106.D
 Acq: 29 Aug 2017 10:16

Tgt Ion:164 Resp: 162975
 Ion Ratio Lower Upper
 164 100
 162 101.5 82.6 123.8
 160 49.0 36.2 54.2



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

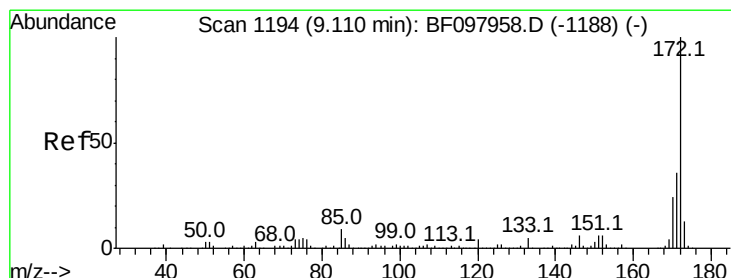
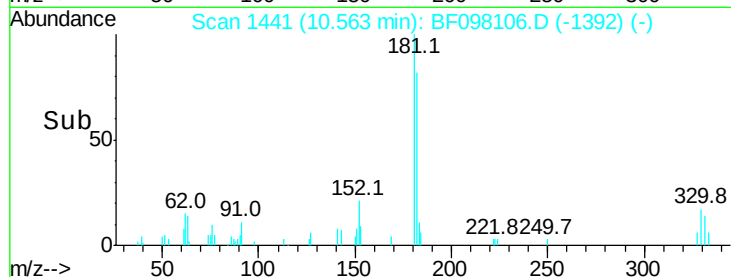
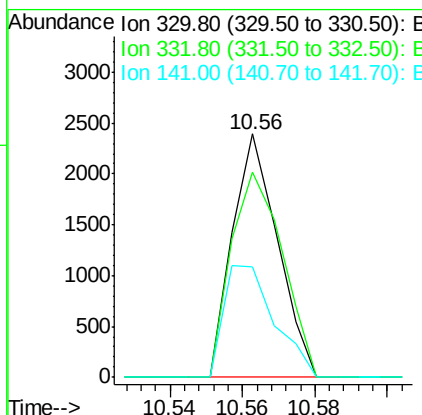
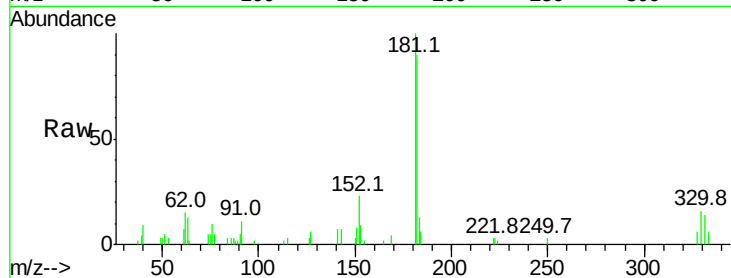




#41
 2,4,6-Tribromophenol
 Concen: 1.462 ng
 RT: 10.56 min Scan# 1441
 Delta R.T. -0.01 min
 Lab File: BF098106.D
 Acq: 29 Aug 2017 10:16

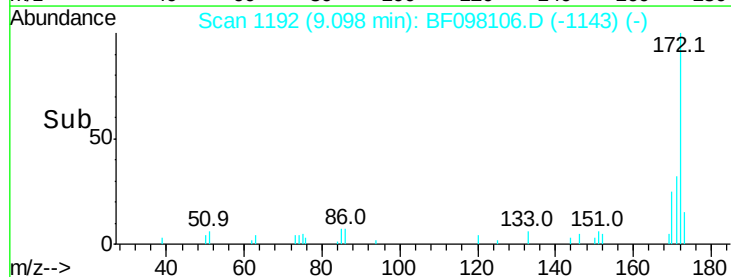
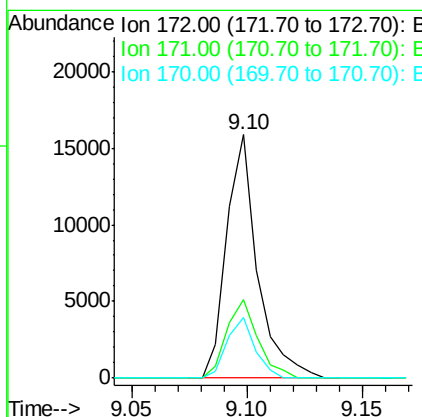
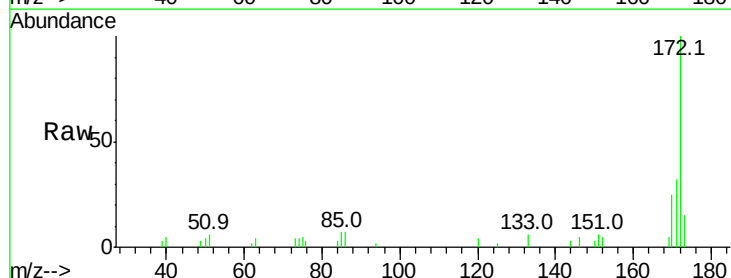
Instrument :
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 ClientSampleId :
 SB-03-COMPDL

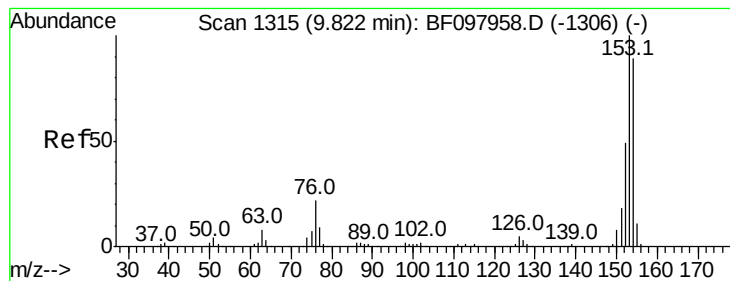
Tot Ion:330 Resp: 2067
 Ion Ratio Lower Upper
 330 100
 332 96.0 76.6 115.0
 141 51.4 31.4 47.2#



#44
 2-Fluorobiphenyl
 Concen: 1.330 ng
 RT: 9.10 min Scan# 1192
 Delta R.T. -0.01 min
 Lab File: BF098106.D
 Acq: 29 Aug 2017 10:16

Tgt Ion:172 Resp: 14757
 Ion Ratio Lower Upper
 172 100
 171 32.1 29.6 44.4
 170 25.0 19.8 29.8





#51

Acenaphthene

Concen: 2.085 ng

RT: 9.80 min Scan# 1312

Delta R.T. -0.02 min

Lab File: BF098106.D

Acq: 29 Aug 2017 10:16

Instrument :

BNA_F

ClientSampleId :

SB-03-COMPDL

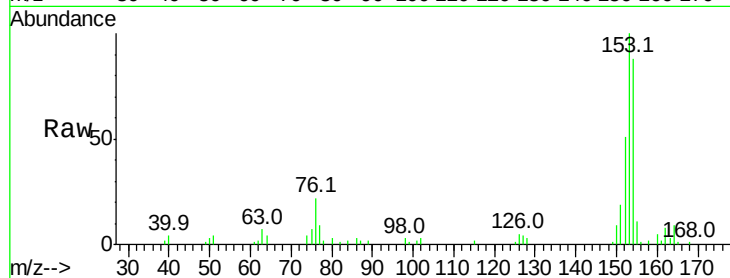
Tot Ion:154 Resp: 22673

Ion Ratio Lower Upper

154 100

153 113.8 90.5 135.7

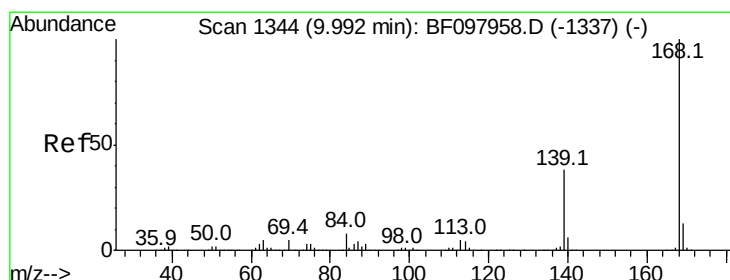
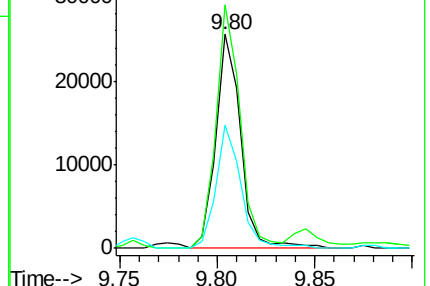
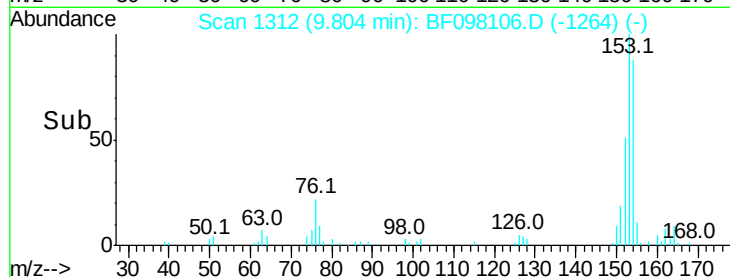
152 57.7 43.6 65.4



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 3.205 ng

RT: 9.98 min Scan# 1342

Delta R.T. -0.01 min

Lab File: BF098106.D

Acq: 29 Aug 2017 10:16

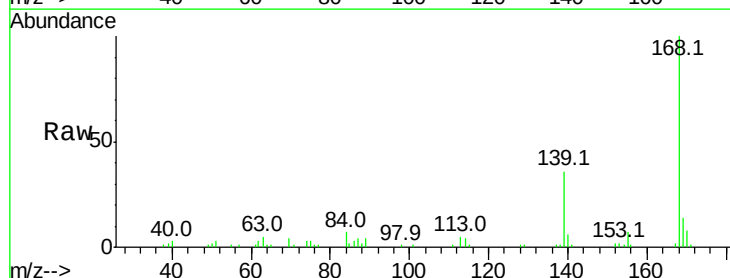
Tgt Ion:168 Resp: 46718

Ion Ratio Lower Upper

168 100

139 36.2 30.6 45.8

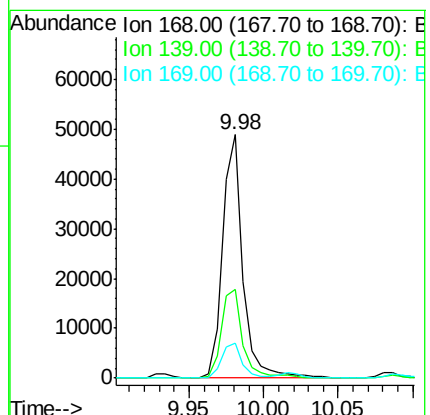
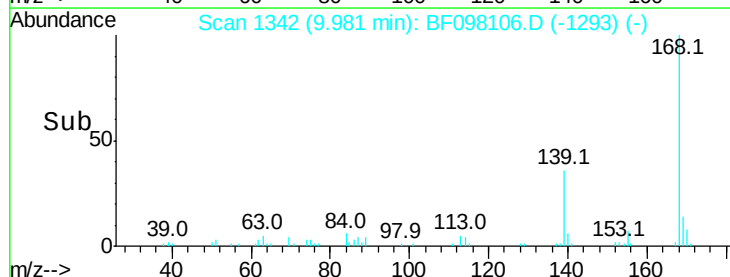
169 14.2 10.8 16.2

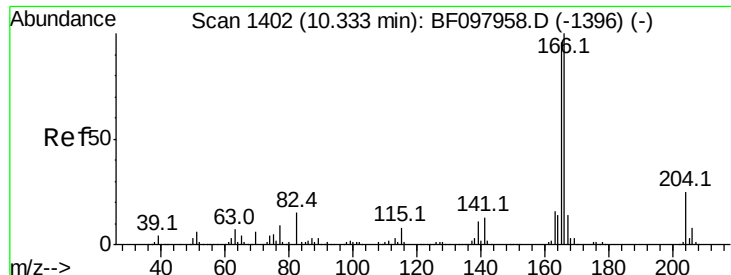


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E

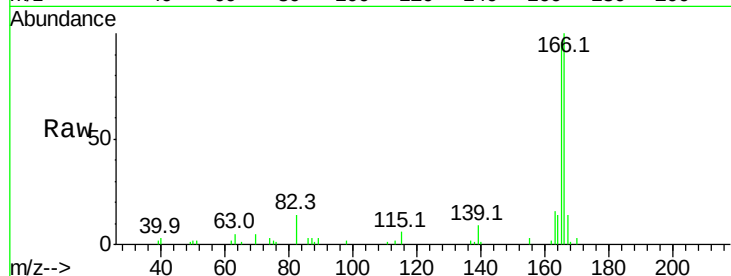




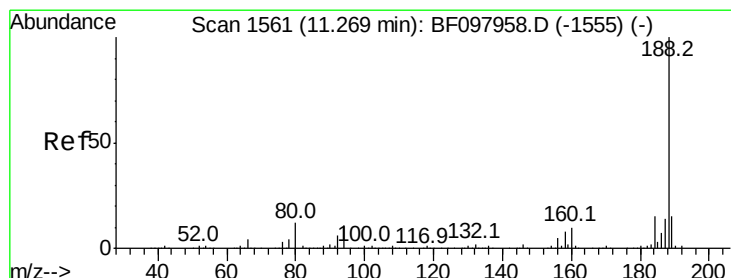
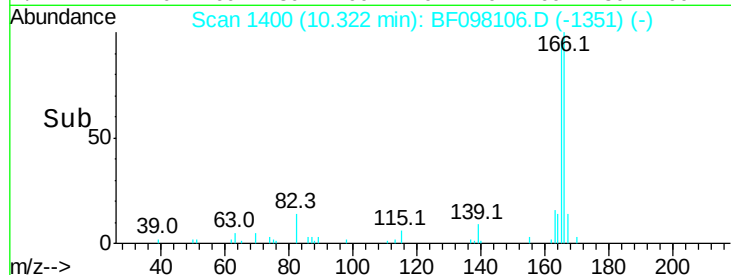
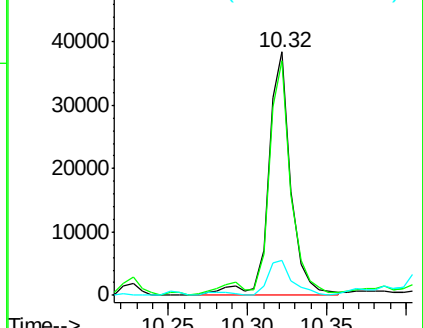
#57
Fluorene
 Concen: 3.369 ng
 RT: 10.32 min Scan# 1400
 Delta R.T. -0.01 min
 Lab File: BF098106.D
 Acq: 29 Aug 2017 10:16

Instrument :
 BNA_F
 ClientSampleId :
 SB-03-COMPDL

Tot Ion:166 Resp: 37965
 Ion Ratio Lower Upper
 166 100
 165 96.1 78.8 118.2
 167 14.2 10.6 16.0

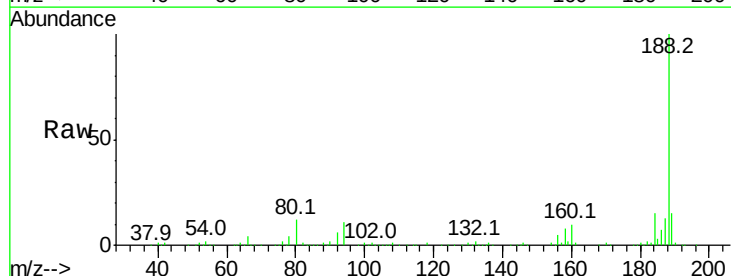


Abundance Ion 166.00 (165.70 to 166.70): E
 Ion 165.00 (164.70 to 165.70): E
 Ion 167.00 (166.70 to 167.70): E

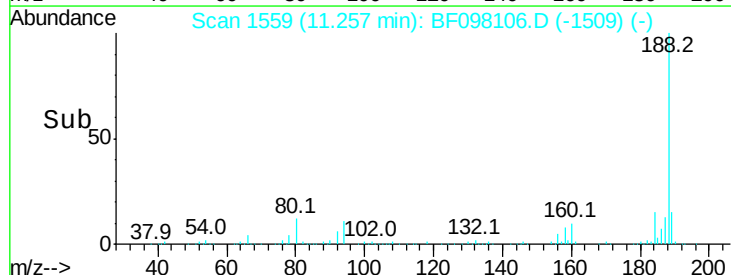
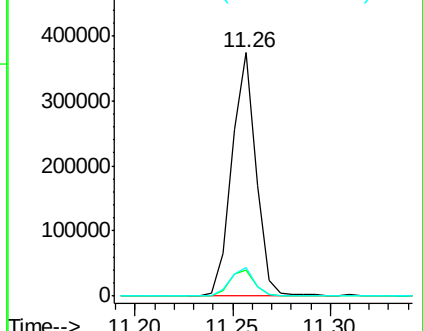


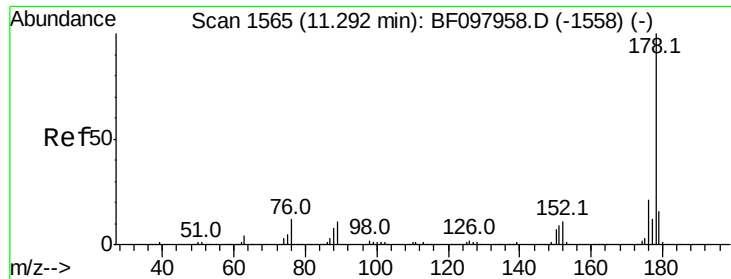
#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.26 min Scan# 1559
 Delta R.T. -0.01 min
 Lab File: BF098106.D
 Acq: 29 Aug 2017 10:16

Tgt Ion:188 Resp: 320101
 Ion Ratio Lower Upper
 188 100
 94 10.8 9.4 14.2
 80 12.0 10.2 15.2



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

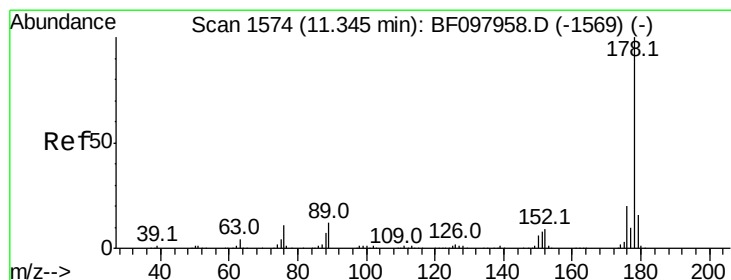
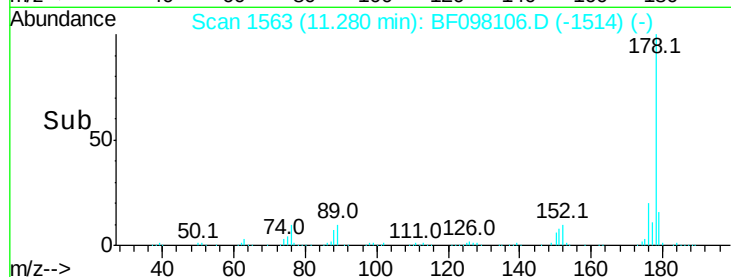
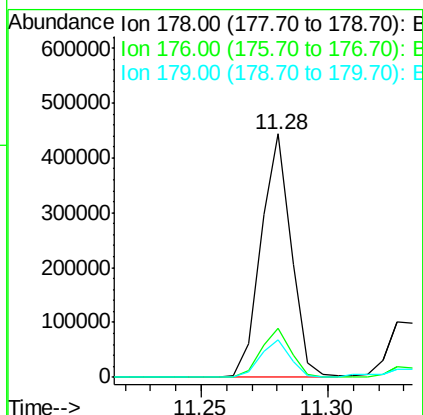
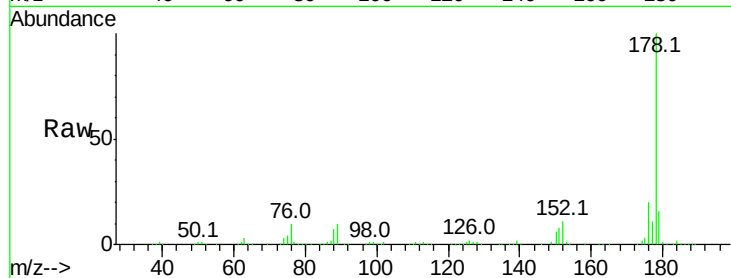




#70
Phenanthrene
Concen: 21.683 ng
RT: 11.28 min Scan# 1563
Delta R.T. -0.01 min
Lab File: BF098106.D
Acq: 29 Aug 2017 10:16

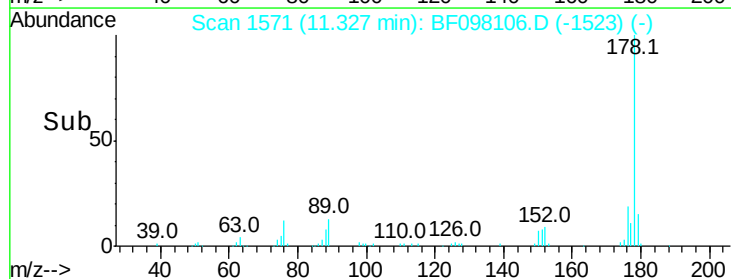
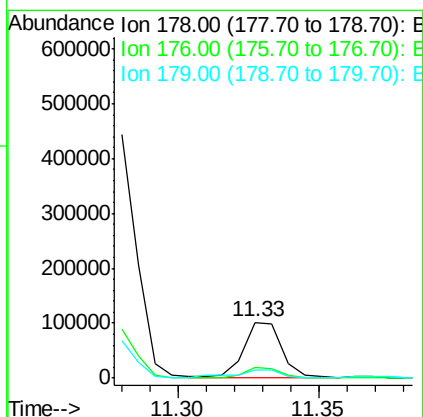
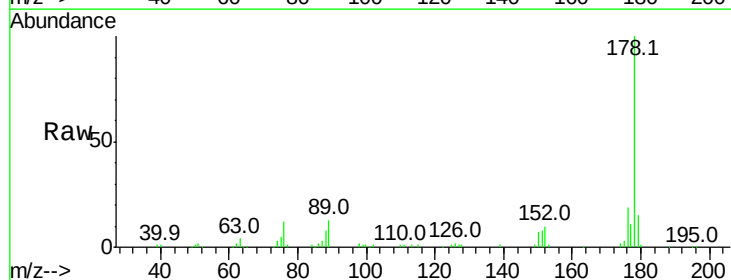
Instrument :
BNA_F
ClientSampleId :
SB-03-COMPDL

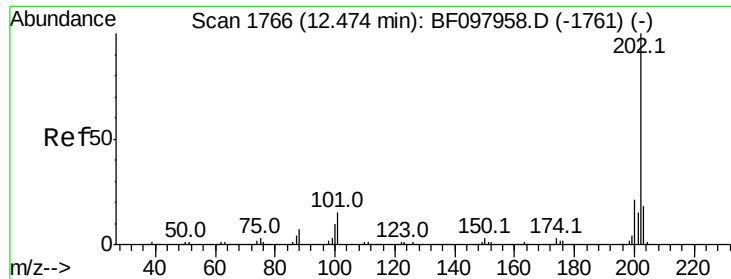
Tot Ion:178 Resp: 369854
Ion Ratio Lower Upper
178 100
176 19.9 16.2 24.4
179 15.5 12.6 19.0



#71
Anthracene
Concen: 5.420 ng
RT: 11.33 min Scan# 1571
Delta R.T. -0.02 min
Lab File: BF098106.D
Acq: 29 Aug 2017 10:16

Tgt Ion:178 Resp: 93766
Ion Ratio Lower Upper
178 100
176 19.1 15.8 23.8
179 15.3 12.7 19.1





#74

Fluoranthene

Concen: 19.110 ng

RT: 12.46 min Scan# 1764

Delta R.T. -0.01 min

Lab File: BF098106.D

Acq: 29 Aug 2017 10:16

Instrument :

BNA_F

ClientSampleId :

SB-03-COMPDL

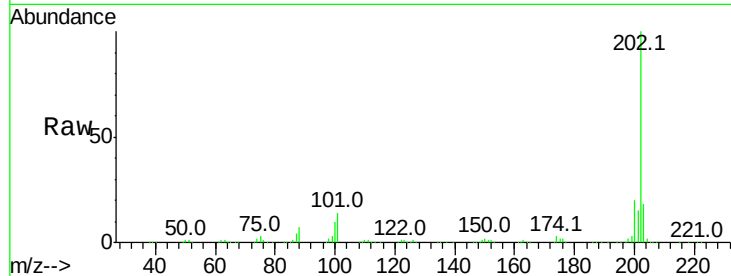
Tot Ion:202 Resp: 340225

Ion Ratio Lower Upper

202 100

101 14.2 0.0 33.2

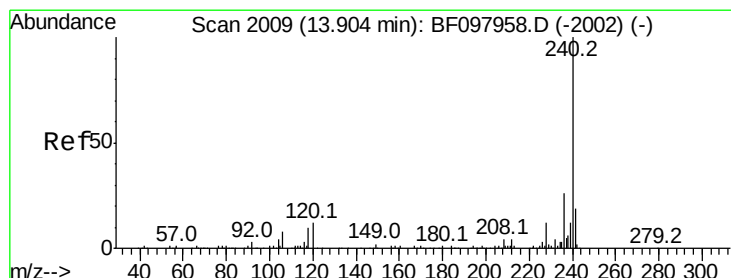
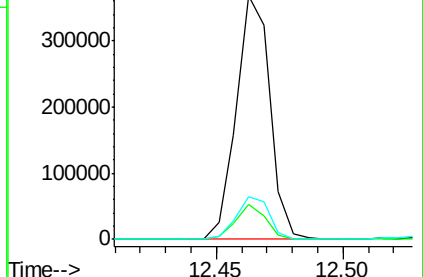
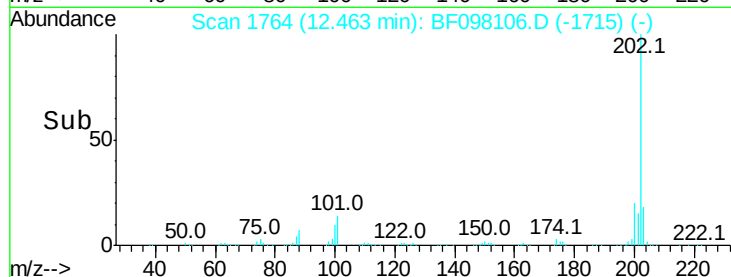
203 17.5 0.0 38.1



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: 20.000 ng

RT: 13.89 min Scan# 2006

Delta R.T. -0.01 min

Lab File: BF098106.D

Acq: 29 Aug 2017 10:16

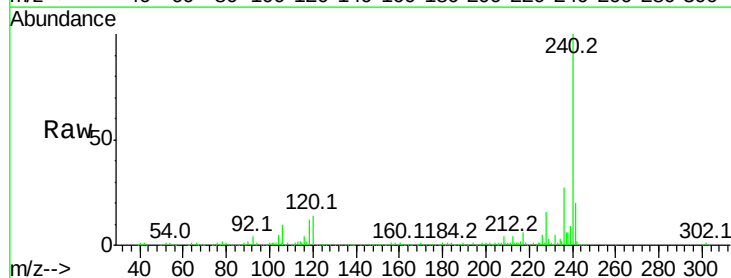
Tgt Ion:240 Resp: 262039

Ion Ratio Lower Upper

240 100

120 14.3 5.8 8.8#

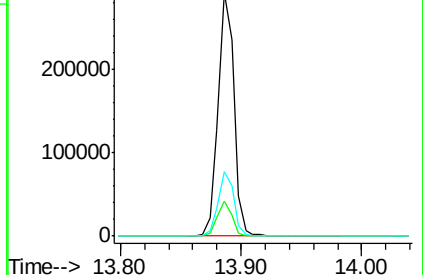
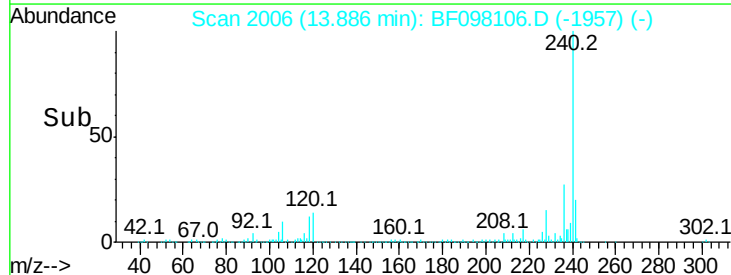
236 26.6 20.5 30.7

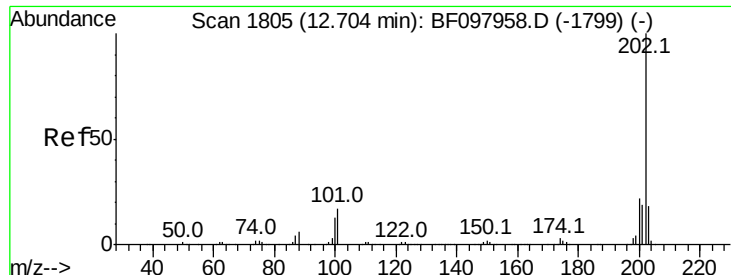


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

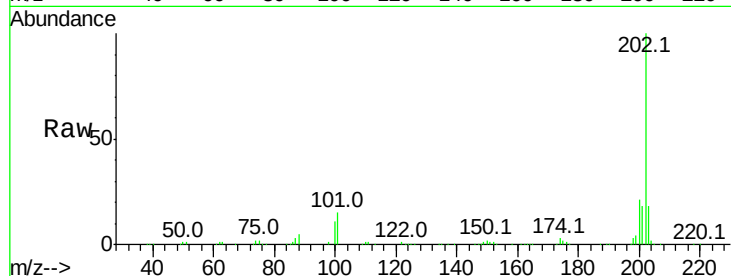




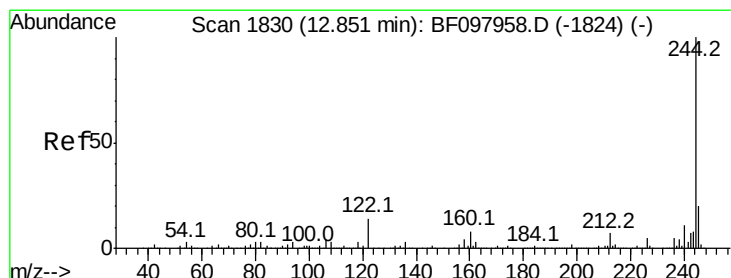
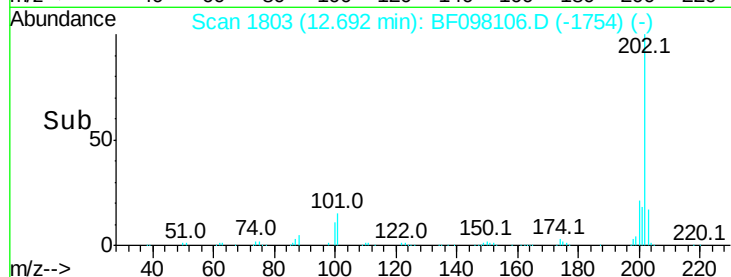
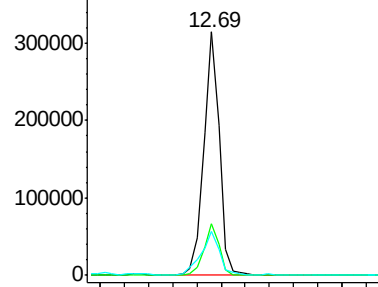
#77
Pvrene
Concen: 13.105 ng
RT: 12.69 min Scan# 1803
Delta R.T. -0.01 min
Lab File: BF098106.D
Acq: 29 Aug 2017 10:16

Instrument :
BNA_F
ClientSampleId :
SB-03-COMPDL

Tot Ion:202 Resp: 280868
Ion Ratio Lower Upper
202 100
200 21.4 17.6 26.4
203 17.9 14.4 21.6

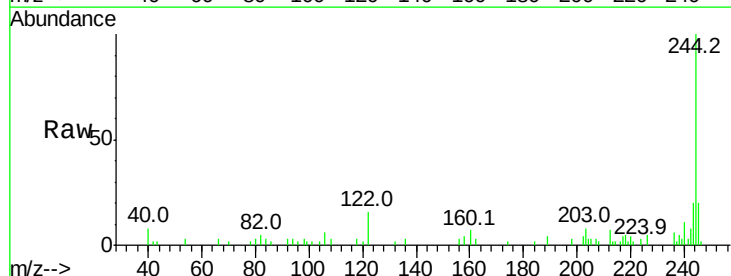


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E

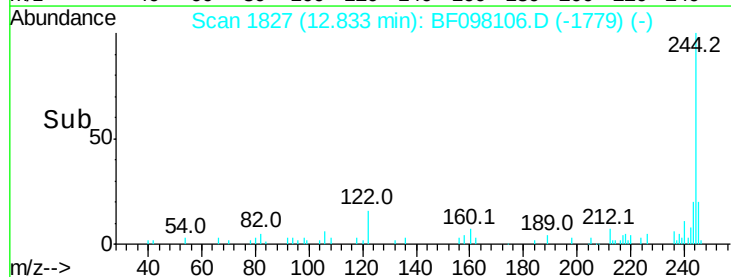
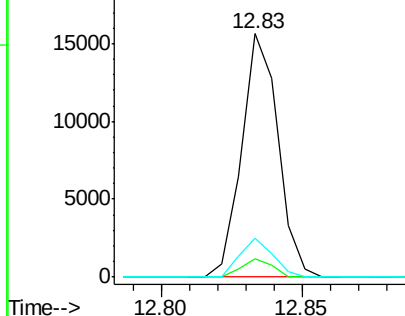


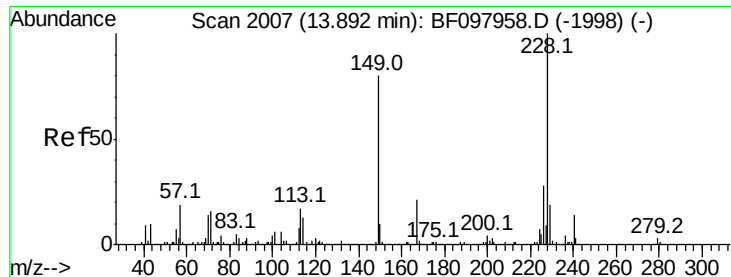
#78
Terphenyl-d14
Concen: 1.107 ng
RT: 12.83 min Scan# 1827
Delta R.T. -0.02 min
Lab File: BF098106.D
Acq: 29 Aug 2017 10:16

Tgt Ion:244 Resp: 13907
Ion Ratio Lower Upper
244 100
212 7.5 6.0 9.0
122 16.1 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

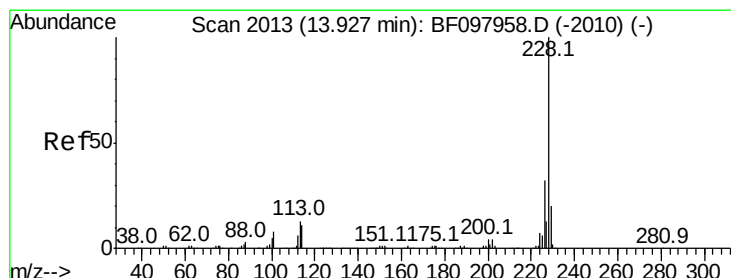
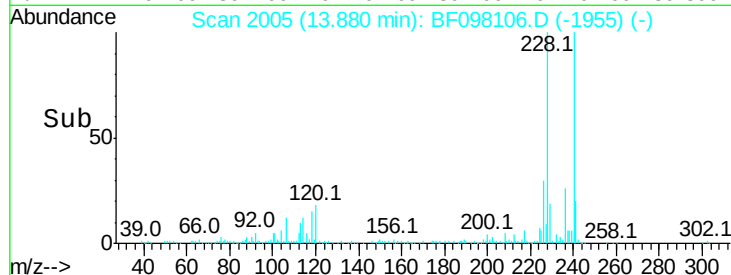
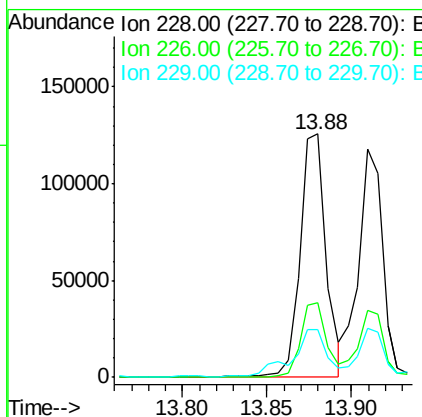
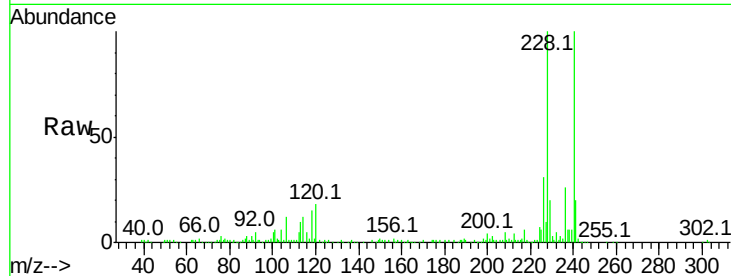




#80
Benzo(a)anthracene
Concen: 8.566 ng
RT: 13.88 min Scan# 2005
Delta R.T. -0.01 min
Lab File: BF098106.D
Acq: 29 Aug 2017 10:16

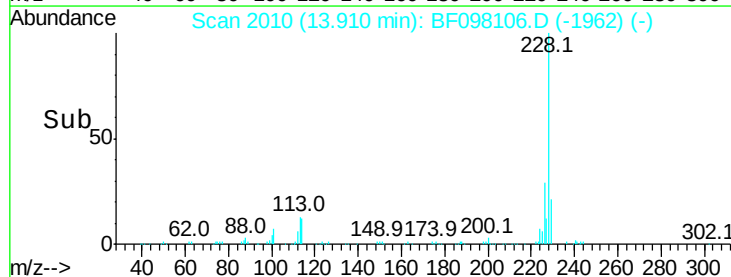
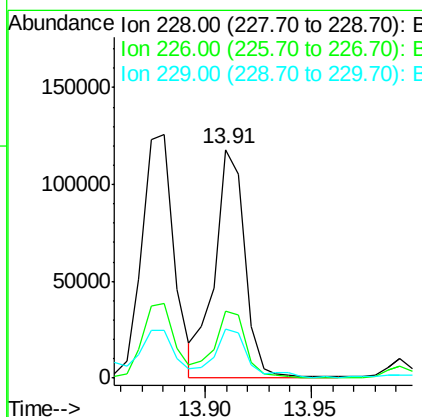
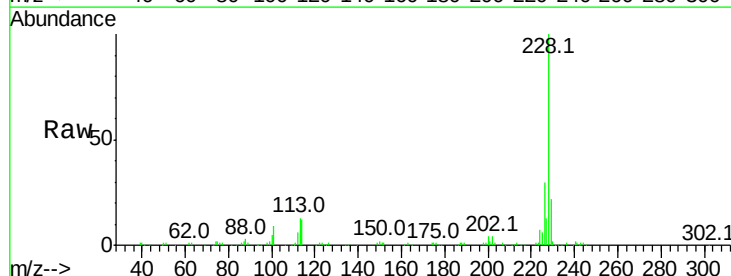
Instrument :
BNA_F
ClientSampleId :
SB-03-COMPDL

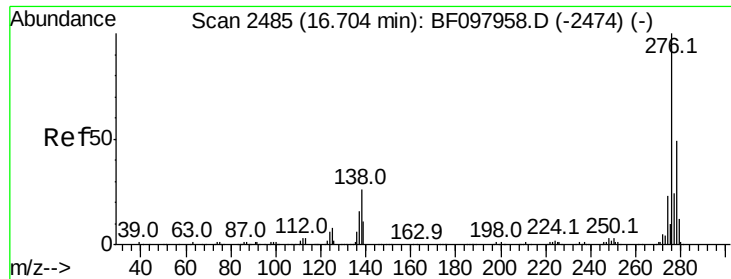
Tot Ion:228 Resp: 134525
Ion Ratio Lower Upper
228 100
226 30.6 22.6 33.8
229 19.7 16.3 24.5



#82
Chrysene
Concen: 7.520 ng
RT: 13.91 min Scan# 2010
Delta R.T. -0.02 min
Lab File: BF098106.D
Acq: 29 Aug 2017 10:16

Tgt Ion:228 Resp: 117486
Ion Ratio Lower Upper
228 100
226 29.6 24.9 37.3
229 21.5 15.8 23.6

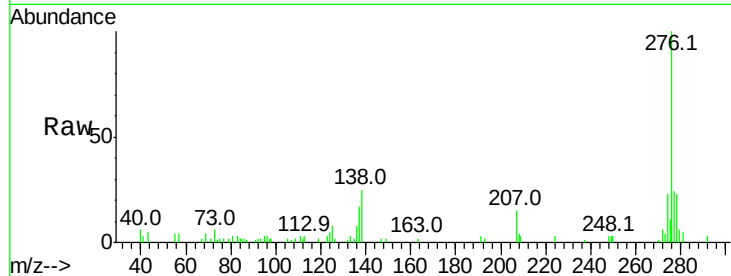




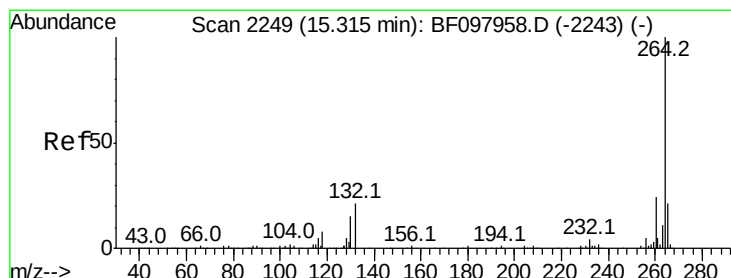
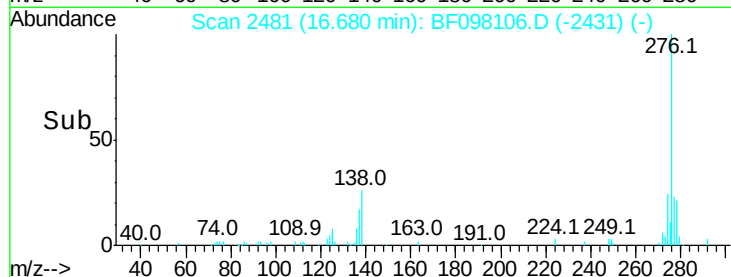
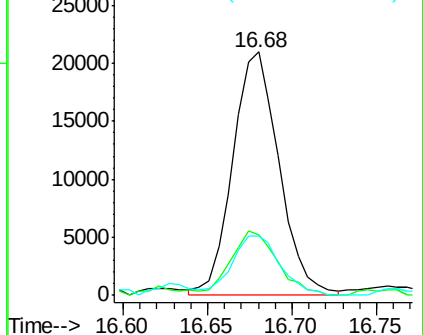
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 3.484 ng
 RT: 16.68 min Scan# 2481
 Delta R.T. -0.01 min
 Lab File: BF098106.D
 Acq: 29 Aug 2017 10:16

Instrument :
 BNA_F
 ClientSampleId :
 SB-03-COMPDL

Tot Ion	Ratio	Lower	Upper
276	100		
138	26.4	27.8	41.6#
277	25.5	20.2	30.4

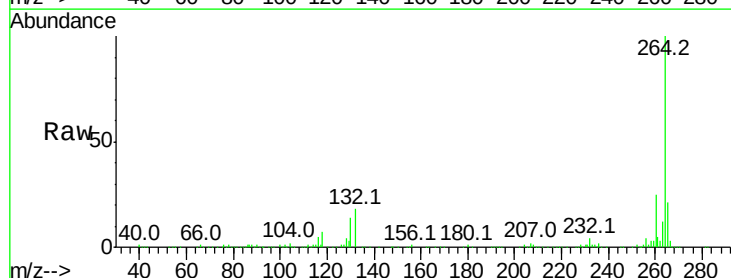


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

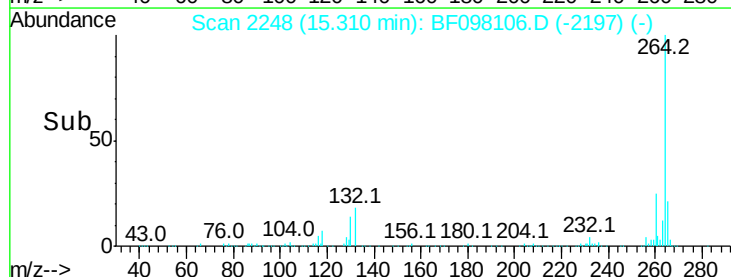
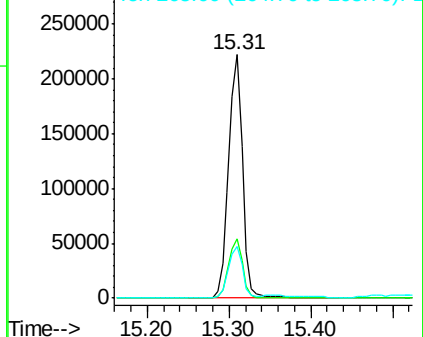


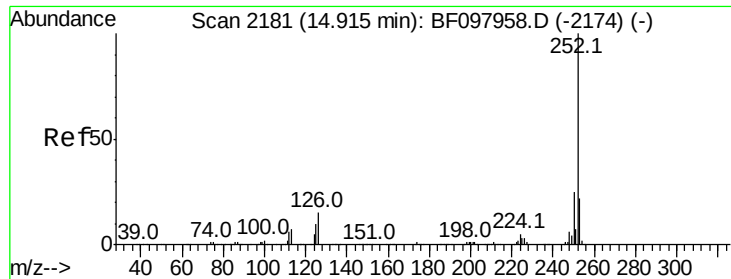
#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.31 min Scan# 2248
 Delta R.T. 0.00 min
 Lab File: BF098106.D
 Acq: 29 Aug 2017 10:16

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.5	19.5	29.3
265	21.4	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

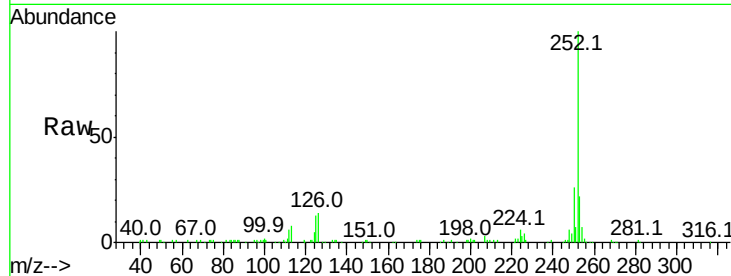




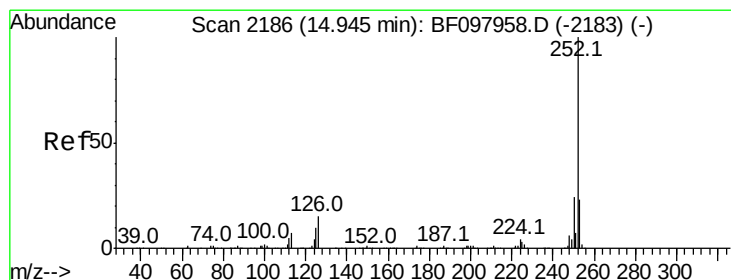
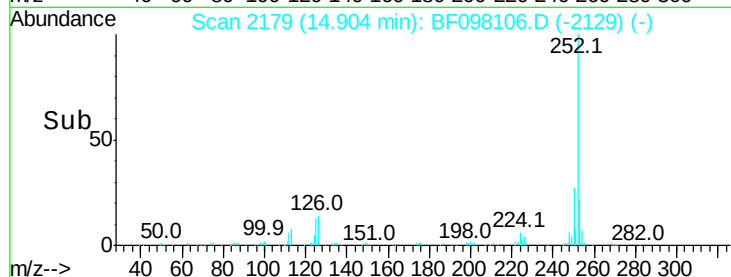
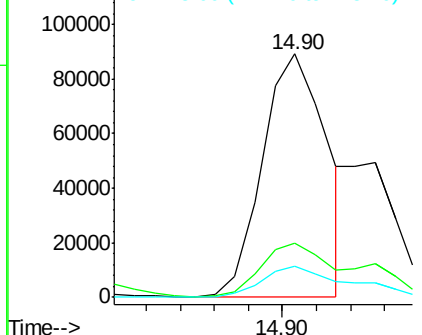
#87
Benzo(b)fluoranthene
Concen: 6.959 ng m
RT: 14.90 min Scan# 2179
Delta R.T. -0.01 min
Lab File: BF098106.D
Acq: 29 Aug 2017 10:16

Instrument :
BNA_F
ClientSampleId :
SB-03-COMPDL

Tot Ion:252 Resp: 116333
Ion Ratio Lower Upper
252 100
253 22.3 18.1 27.1
125 13.0 9.8 14.8

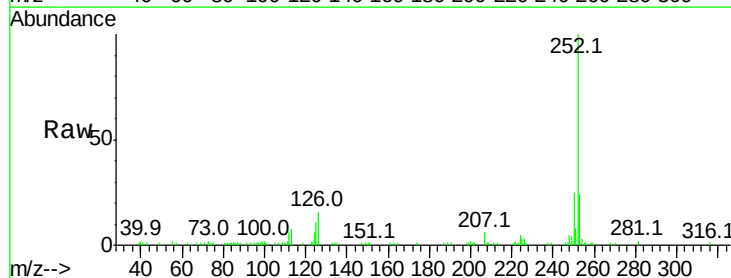


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

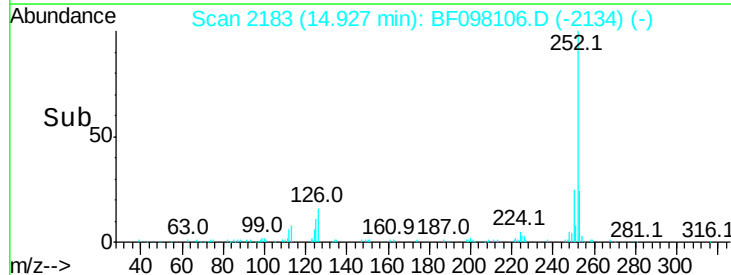
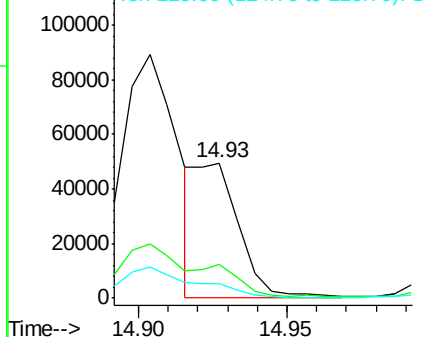


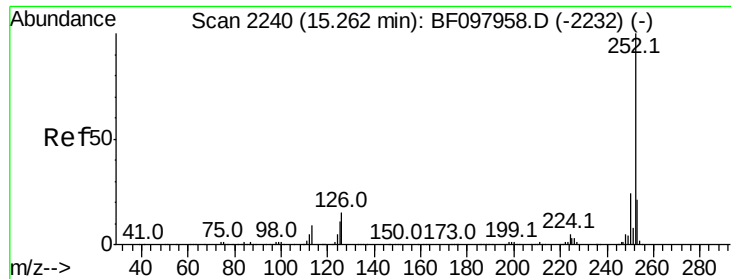
#88
Benzo(k)fluoranthene
Concen: 3.194 ng m
RT: 14.93 min Scan# 2183
Delta R.T. -0.01 min
Lab File: BF098106.D
Acq: 29 Aug 2017 10:16

Tgt Ion:252 Resp: 50165
Ion Ratio Lower Upper
252 100
253 24.5 18.4 27.6
125 11.1 13.1 19.7#



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

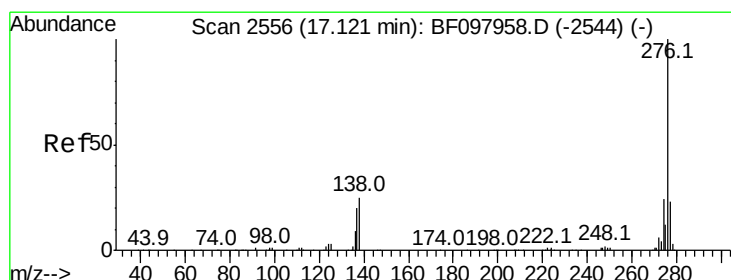
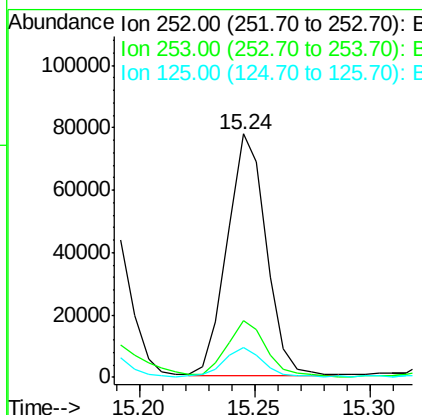
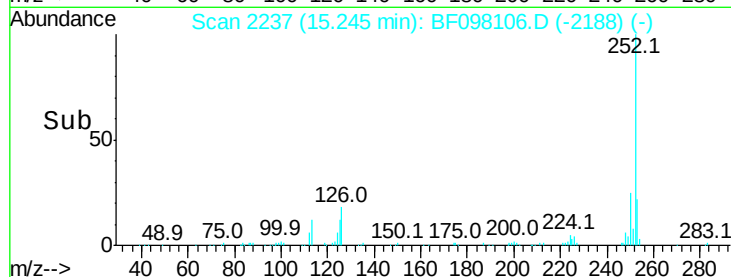
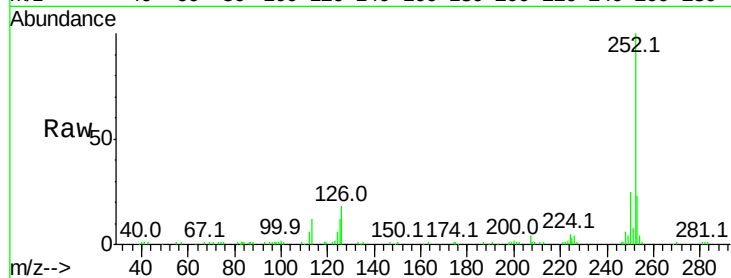




#89
Benzo(a)pyrene
Concen: 6.161 ng
RT: 15.24 min Scan# 2237
Delta R.T. -0.01 min
Lab File: BF098106.D
Acq: 29 Aug 2017 10:16

Instrument :
BNA_F
ClientSampleId :
SB-03-COMPDL

Tot Ion:252 Resp: 91183
Ion Ratio Lower Upper
252 100
253 23.1 17.5 26.3
125 12.3 11.0 16.4



#91
Benzo(g,h,i)perylene
Concen: 2.607 ng
RT: 17.09 min Scan# 2551
Delta R.T. -0.02 min
Lab File: BF098106.D
Acq: 29 Aug 2017 10:16

Tgt Ion:276 Resp: 32779
Ion Ratio Lower Upper
276 100
277 23.0 18.6 28.0
138 27.1 25.4 38.0

