

Data Path : Z:\HPCHEM1\BNA F\DATA\BF082417\
 Data File : BF098005.D
 Acq On : 24 Aug 2017 16:45
 Operator : SJ/JU
 Sample : I4774-04 10X
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HY-SB440

Quant Time: Aug 25 00:59:09 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

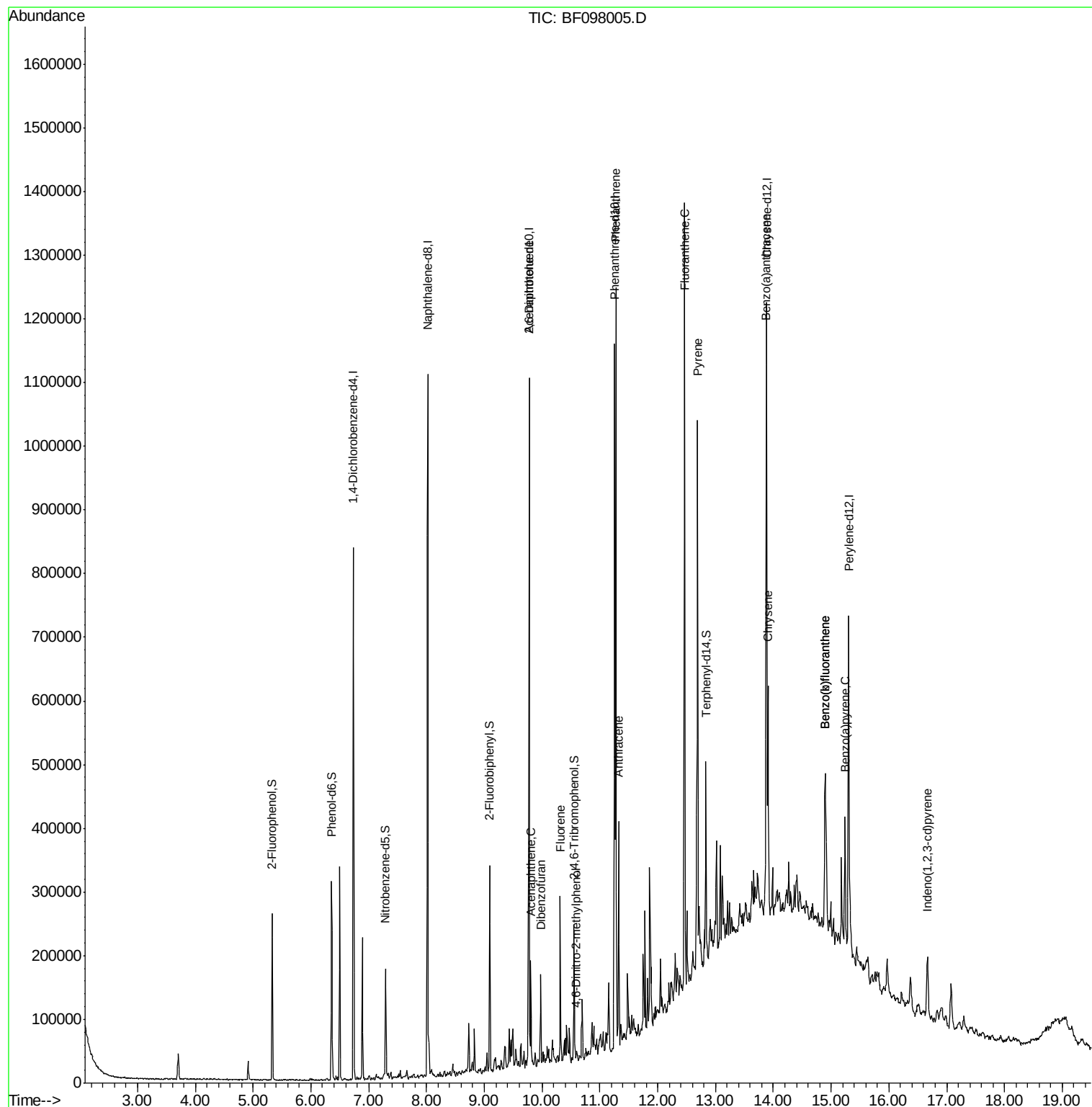
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.73	152	117327	20.00	ng	-0.02
21) Naphthalene-d8	8.02	136	456678	20.00	ng	-0.01
38) Acenaphthene-d10	9.77	164	205502	20.00	ng	-0.01
63) Phenanthrene-d10	11.25	188	399352	20.00	ng	-0.01
75) Chrysene-d12	13.89	240	286798	20.00	ng	-0.01
86) Perylene-d12	15.30	264	236413	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.33	112	70558	9.15	ng	-0.02
7) Phenol-d6	6.36	99	96659	9.22	ng	-0.03
23) Nitrobenzene-d5	7.29	82	59324	7.06	ng	-0.03
41) 2,4,6-Tribromophenol	10.55	330	15682	8.79	ng	-0.02
44) 2-Fluorobiphenyl	9.09	172	87894	6.28	ng	-0.02
78) Terphenyl-d14	12.83	244	73461	5.34	ng	-0.02
Target Compounds						
50) 2,6-Dinitrotoluene	9.77	165	27137	9.05	ng	Qvalue # 34
51) Acenaphthene	9.80	154	29761	2.17	ng	95
54) Dibenzofuran	9.97	168	39006	2.12	ng	97
57) Fluorene	10.32	166	65412	4.60	ng	95
64) 4,6-Dinitro-2-methylphenol	10.59	198	124	8.38	ng	# 33
70) Phenanthrene	11.28	178	430162	20.21	ng	99
71) Anthracene	11.33	178	118130	5.47	ng	98
74) Fluoranthene	12.46	202	437684	19.71	ng	99
77) Pyrene	12.69	202	361562	15.41	ng	99
80) Benzo(a)anthracene	13.87	228	146132	8.50	ng	98
82) Chrysene	13.91	228	119008	6.96	ng	98
85) Indeno(1,2,3-cd)pyrene	16.67	276	60322	4.80	ng	# 90
87) Benzo(b)fluoranthene	14.90	252	182363	12.24	ng	98
88) Benzo(k)fluoranthene	14.90	252	182363	13.03	ng	95
89) Benzo(a)pyrene	15.24	252	96514	7.32	ng	99

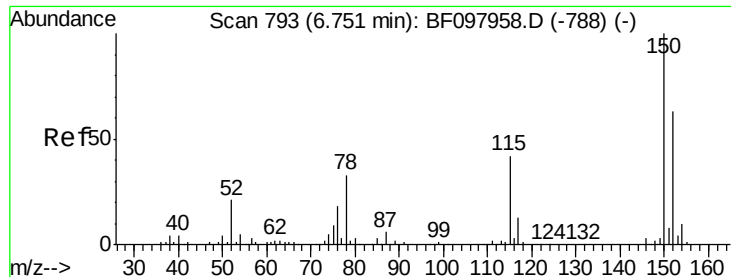
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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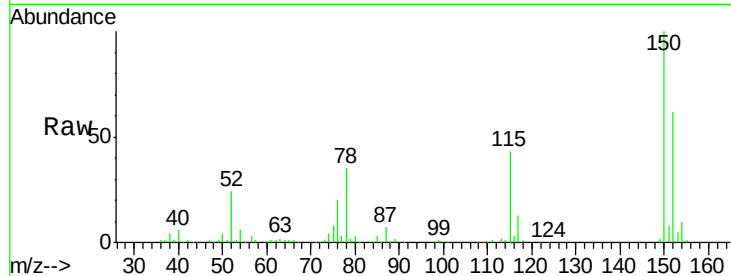


#1

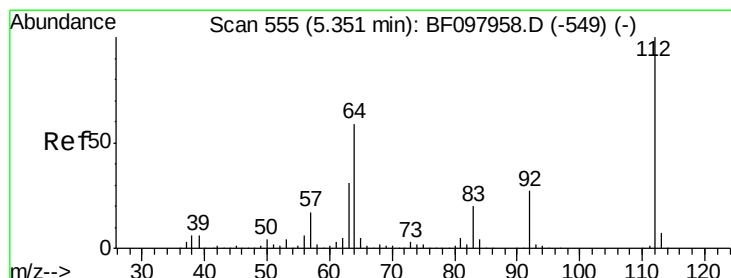
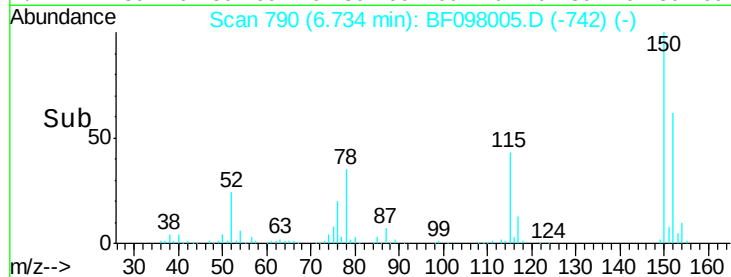
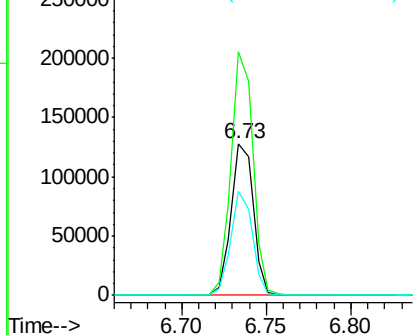
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.73 min Scan# 790
Delta R.T. -0.02 min
Lab File: BF098005.D
Acq: 24 Aug 2017 16:45

Instrument :
BNA_F
ClientSampled :
HY-SB440

Tot Ion:152 Resp: 117327
Ion Ratio Lower Upper
152 100
150 160.4 126.2 189.2
115 68.5 52.2 78.2



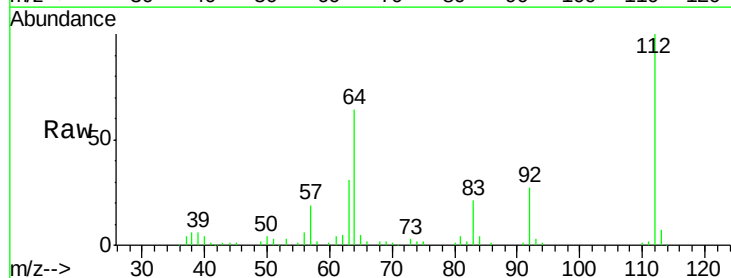
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



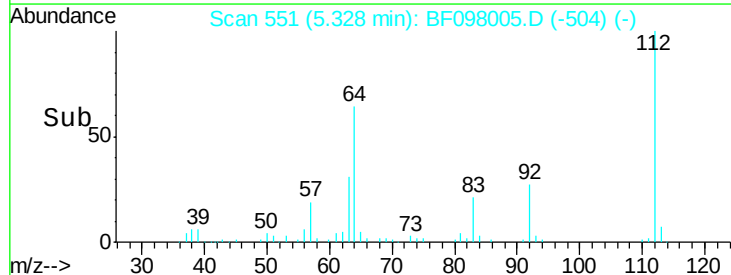
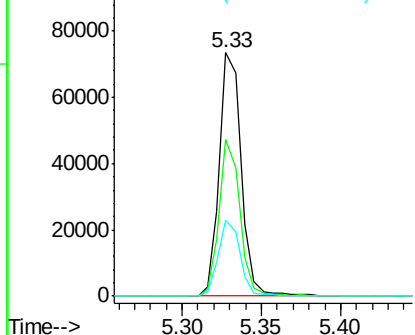
#5

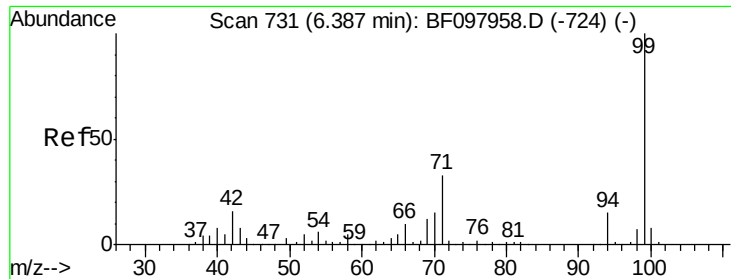
2-Fluorophenol
Concen: 9.15 ng
RT: 5.33 min Scan# 551
Delta R.T. -0.02 min
Lab File: BF098005.D
Acq: 24 Aug 2017 16:45

Tgt Ion:112 Resp: 70558
Ion Ratio Lower Upper
112 100
64 64.3 46.0 69.0
63 31.2 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: 9.22 ng

RT: 6.36 min Scan# 726

Delta R.T. -0.03 min

Lab File: BF098005.D

Acq: 24 Aug 2017 16:45

Instrument :

BNA_F

ClientSampleId :

HY-SB440

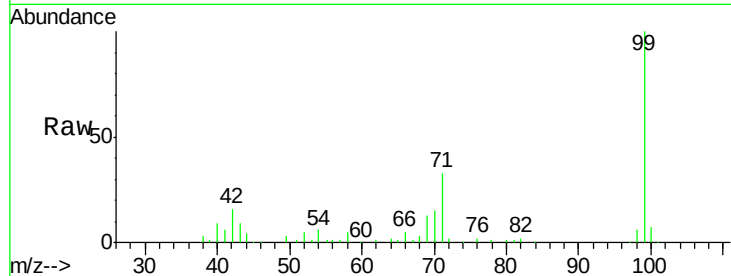
Tot Ion: 99 Resp: 96659

Ion Ratio Lower Upper

99 100

42 16.4 13.5 20.3

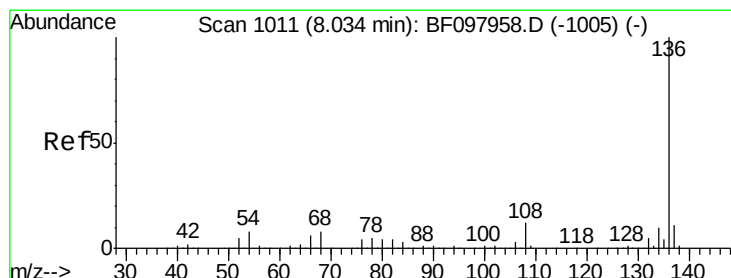
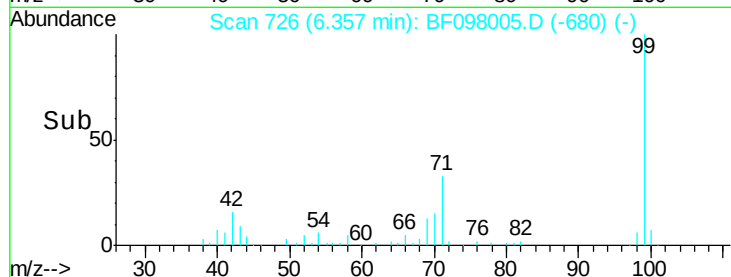
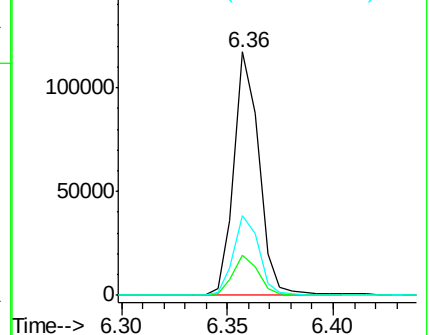
71 32.7 24.5 36.7



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: 8.02 min Scan# 1009

Delta R.T. -0.01 min

Lab File: BF098005.D

Acq: 24 Aug 2017 16:45

Tgt Ion: 136 Resp: 456678

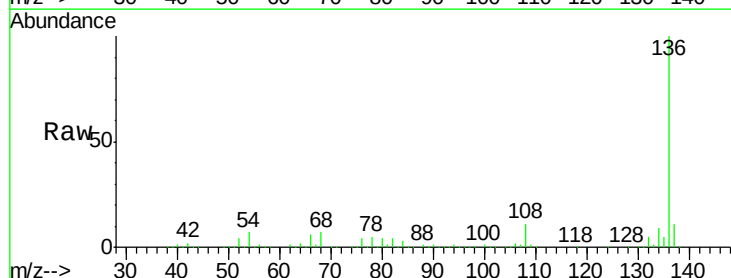
Ion Ratio Lower Upper

136 100

137 10.8 8.5 12.7

54 7.3 4.9 7.3

68 6.9 4.1 6.1#

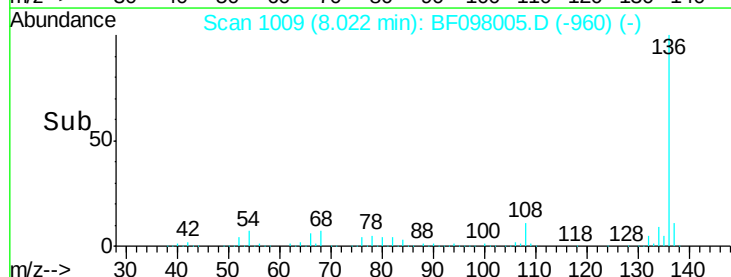
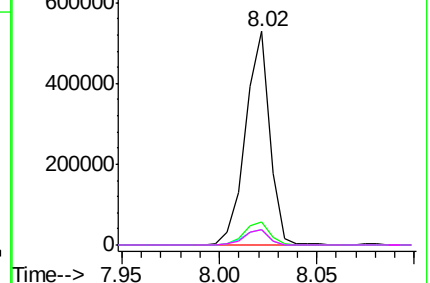


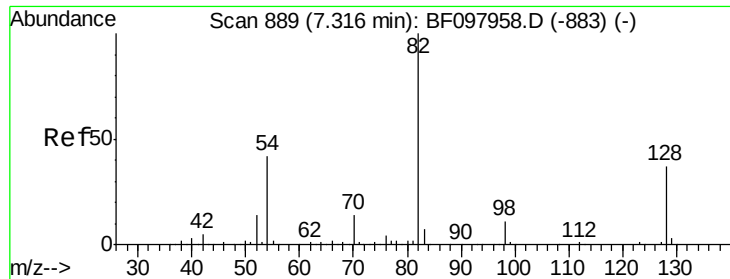
Abundance Ion 136.00 (135.70 to 136.70): E

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

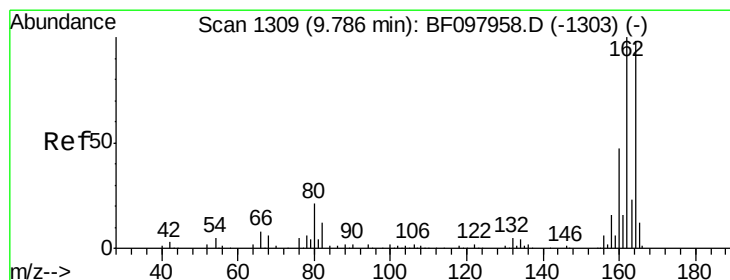
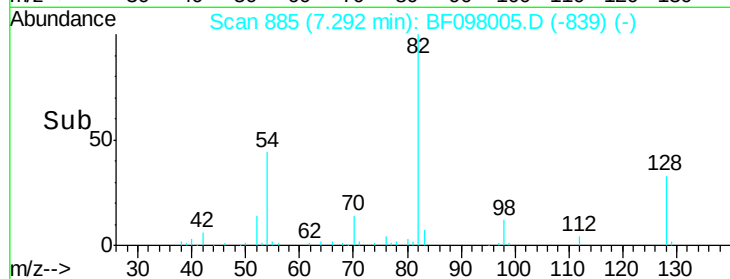
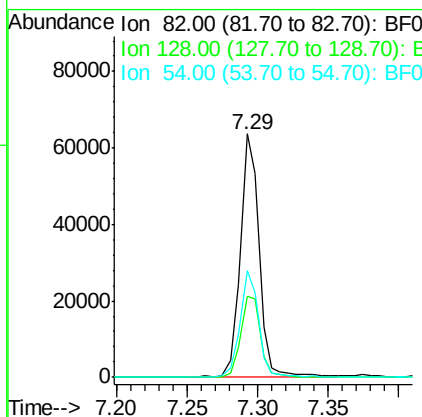
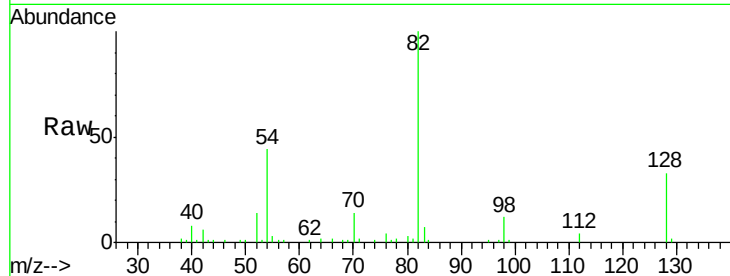




#23
 Nitrobenzene-d5
 Concen: 7.06 ng
 RT: 7.29 min Scan# 885
 Delta R.T. -0.03 min
 Lab File: BF098005.D
 Acq: 24 Aug 2017 16:45

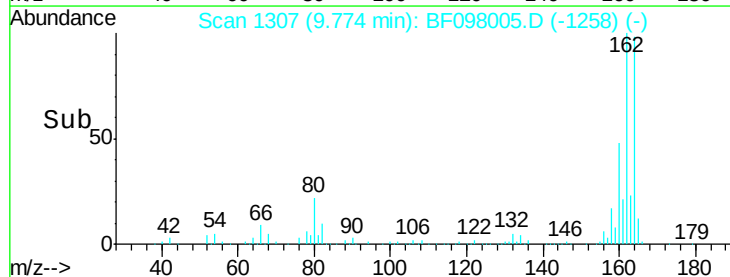
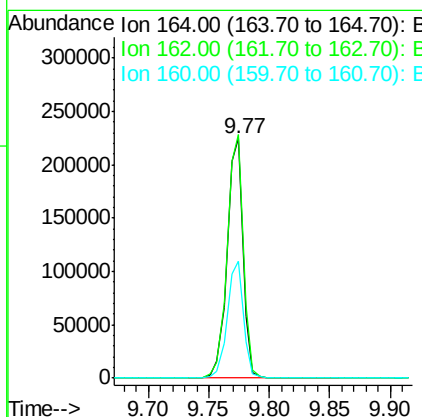
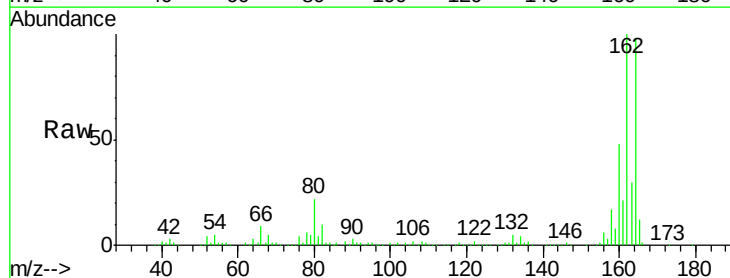
Instrument :
 BNA_F
 ClientSampleId :
 HY-SB440

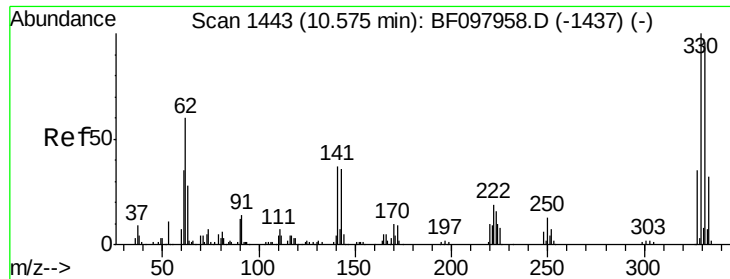
Tot Ion: 82 Resp: 59324
 Ion Ratio Lower Upper
 82 100
 128 33.4 34.0 51.0#
 54 43.8 42.2 63.2



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.77 min Scan# 1307
 Delta R.T. -0.01 min
 Lab File: BF098005.D
 Acq: 24 Aug 2017 16:45

Tgt Ion: 164 Resp: 205502
 Ion Ratio Lower Upper
 164 100
 162 101.8 82.6 123.8
 160 48.7 36.2 54.2

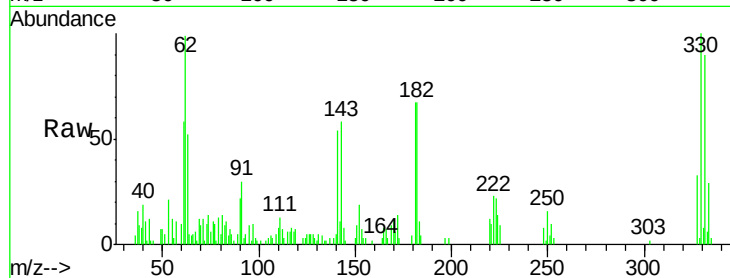




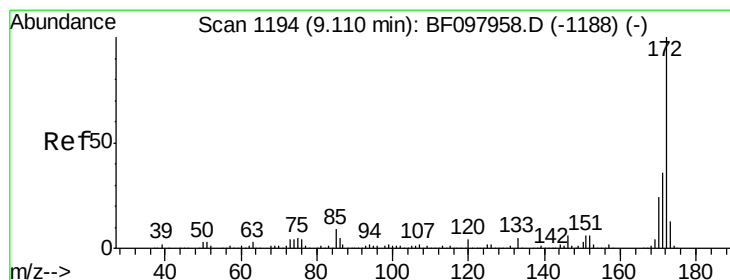
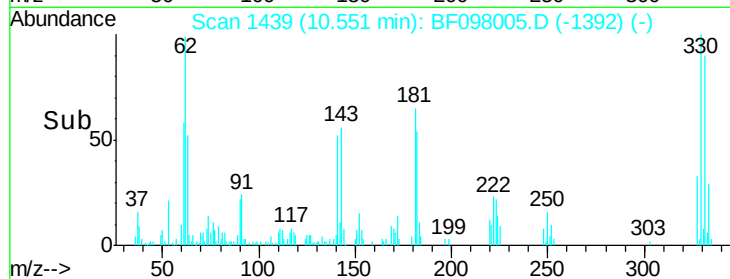
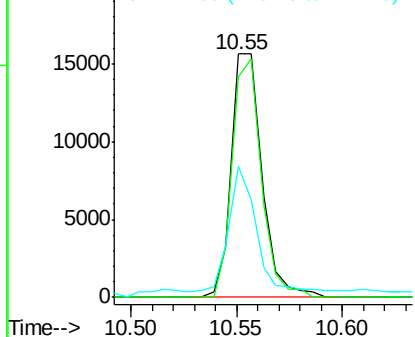
#41
 2,4,6-Tribromophenol
 Concen: 8.79 ng
 RT: 10.55 min Scan# 1439
 Delta R.T. -0.02 min
 Lab File: BF098005.D
 Acq: 24 Aug 2017 16:45

Instrument :
 BNA_F
 ClientSampleId :
 HY-SB440

Tot Ion:330 Resp: 15682
 Ion Ratio Lower Upper
 330 100
 332 92.4 76.6 115.0
 141 60.7 31.4 47.2#

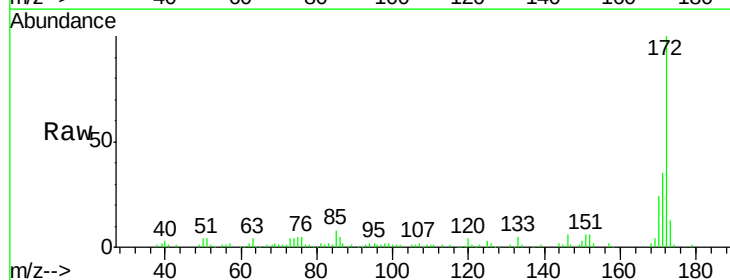


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

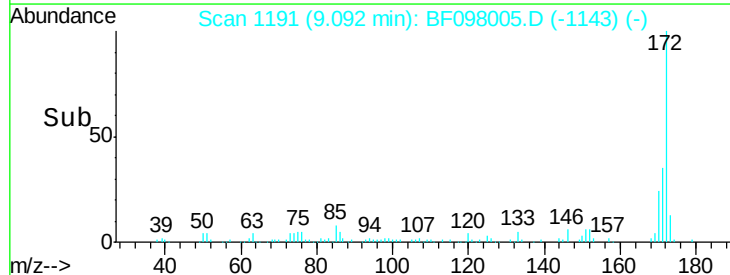
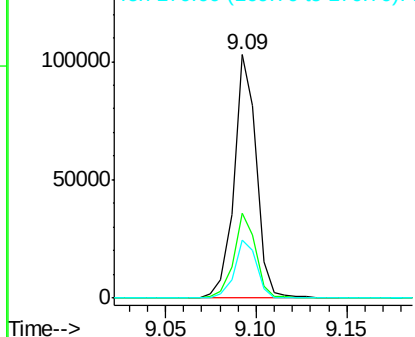


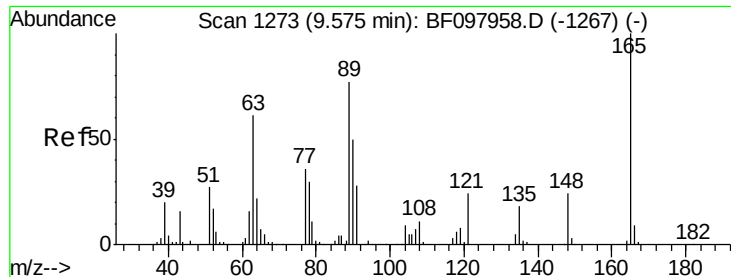
#44
 2-Fluorobiphenyl
 Concen: 6.28 ng
 RT: 9.09 min Scan# 1191
 Delta R.T. -0.02 min
 Lab File: BF098005.D
 Acq: 24 Aug 2017 16:45

Tgt Ion:172 Resp: 87894
 Ion Ratio Lower Upper
 172 100
 171 34.8 29.6 44.4
 170 23.8 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

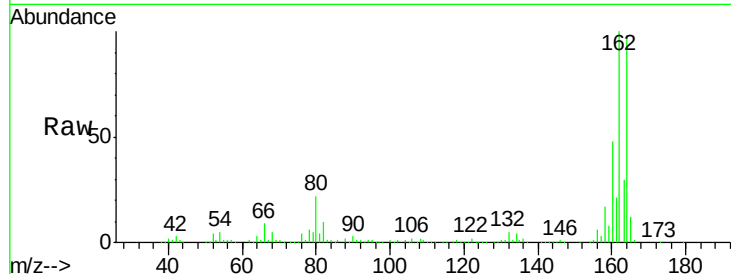




#50
2,6-Dinitrotoluene
Concen: 9.05 ng
RT: 9.77 min Scan# 1307
Delta R.T. 0.20 min
Lab File: BF098005.D
Acq: 24 Aug 2017 16:45

Instrument :
BNA_F
ClientSampleId :
HY-SB440

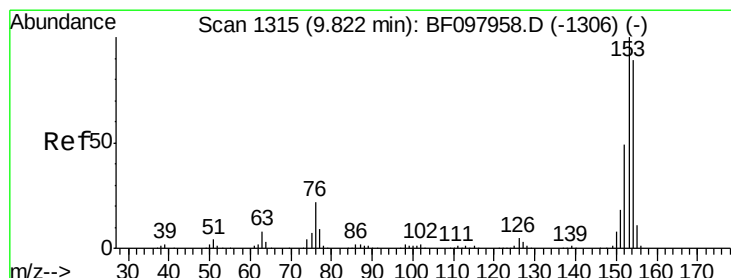
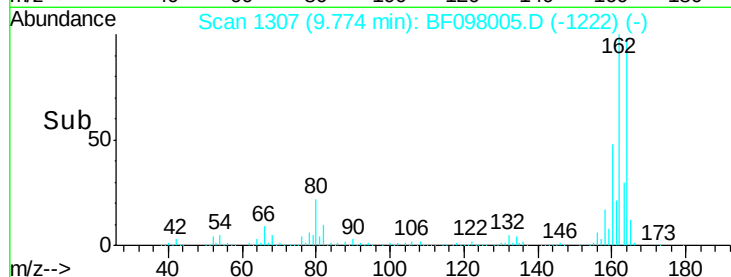
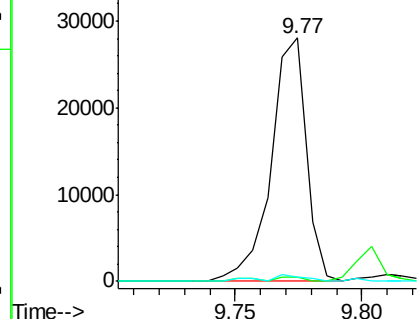
Tot Ion	Ratio	Lower	Upper
165	100		
63	1.8	34.3	51.5#
89	1.6	37.1	55.7#



Abundance Ion 165.00 (164.70 to 165.70): E

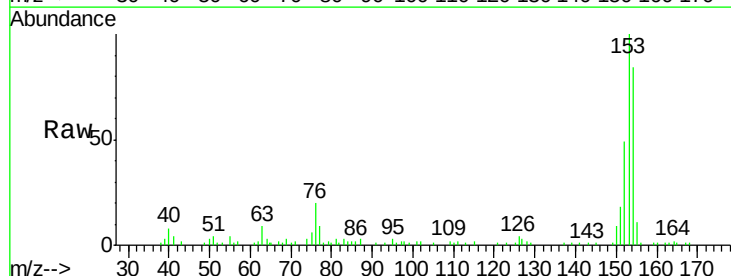
Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0



#51
Acenaphthene
Concen: 2.17 ng
RT: 9.80 min Scan# 1312
Delta R.T. -0.02 min
Lab File: BF098005.D
Acq: 24 Aug 2017 16:45

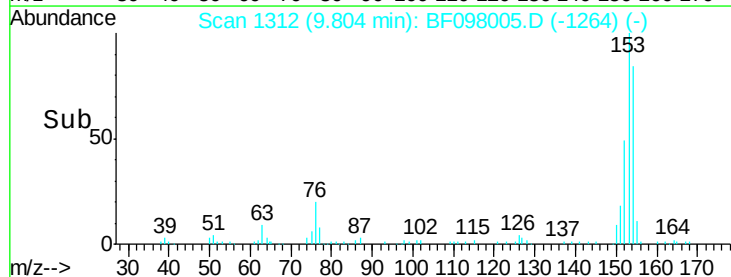
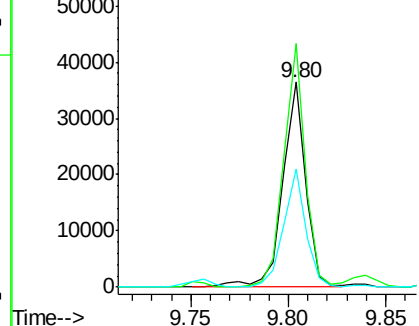
Tgt Ion	Ratio	Lower	Upper
154	100		
153	118.8	90.5	135.7
152	57.9	43.6	65.4

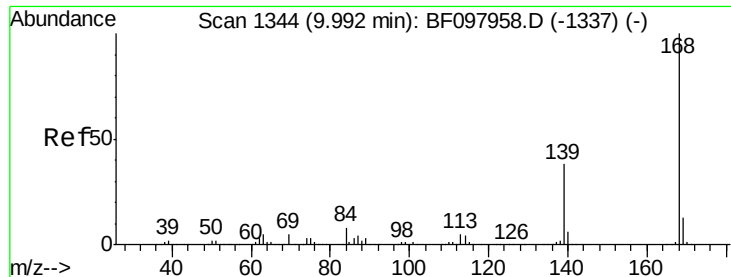


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

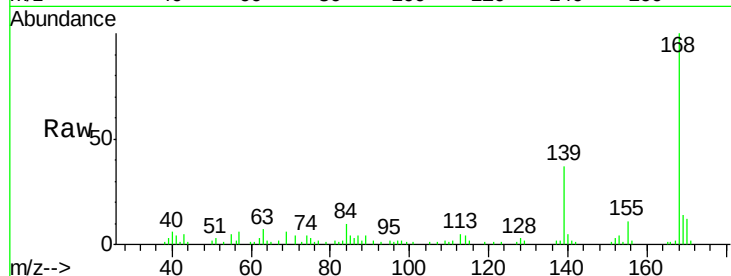




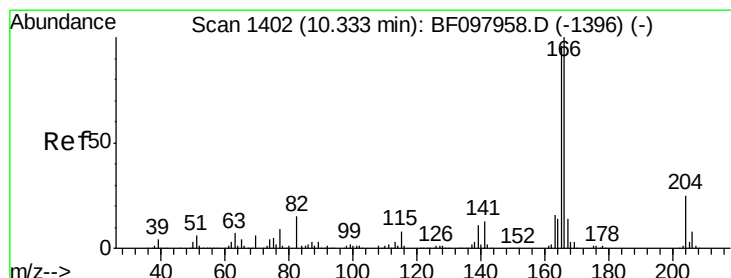
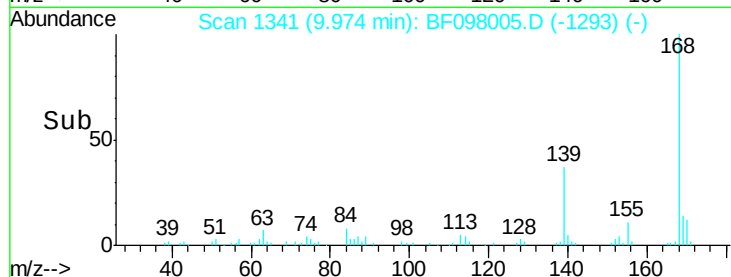
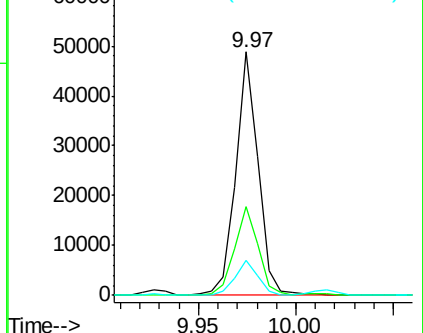
#54
Dibenzenofuran
Concen: 2.12 ng
RT: 9.97 min Scan# 1341
Delta R.T. -0.02 min
Lab File: BF098005.D
Acq: 24 Aug 2017 16:45

Instrument :
BNA_F
ClientSampleId :
HY-SB440

Tot Ion:168 Resp: 39006
Ion Ratio Lower Upper
168 100
139 36.6 30.6 45.8
169 14.5 10.8 16.2

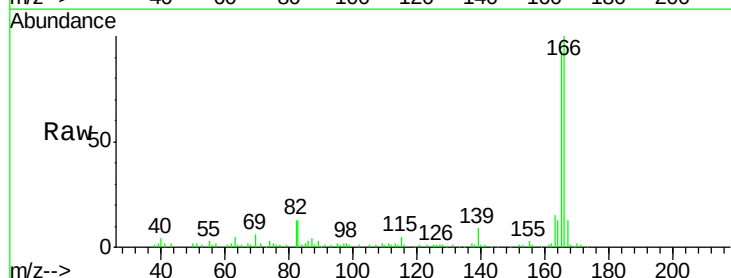


Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E

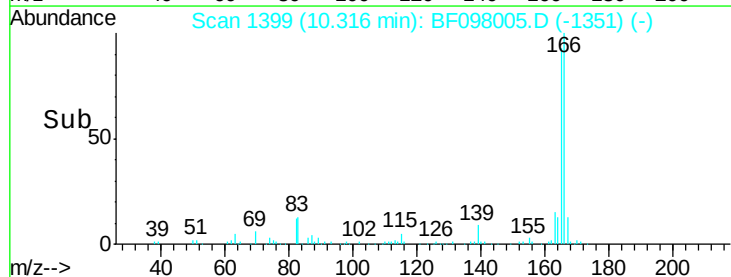
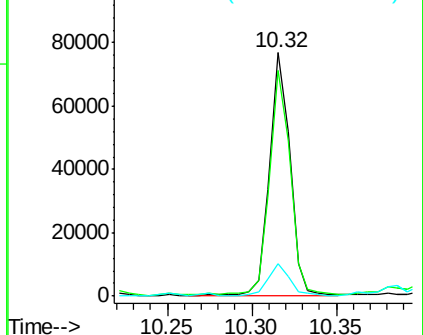


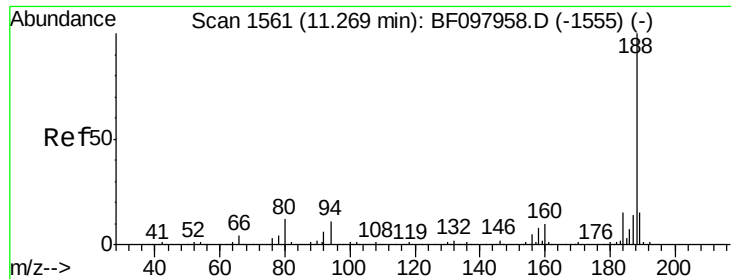
#57
Fluorene
Concen: 4.60 ng
RT: 10.32 min Scan# 1399
Delta R.T. -0.02 min
Lab File: BF098005.D
Acq: 24 Aug 2017 16:45

Tgt Ion:166 Resp: 65412
Ion Ratio Lower Upper
166 100
165 92.6 78.8 118.2
167 13.2 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

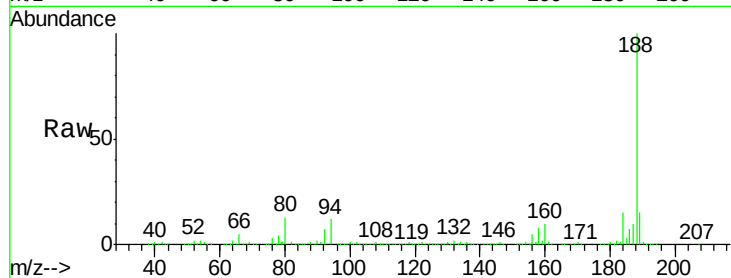




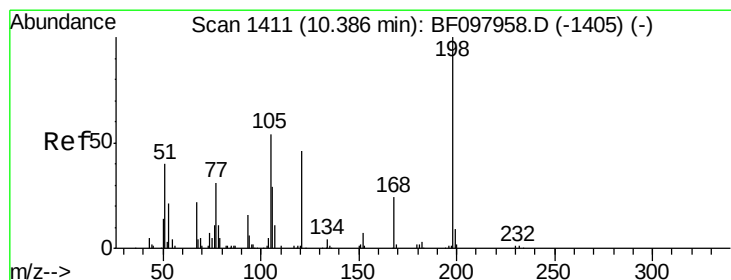
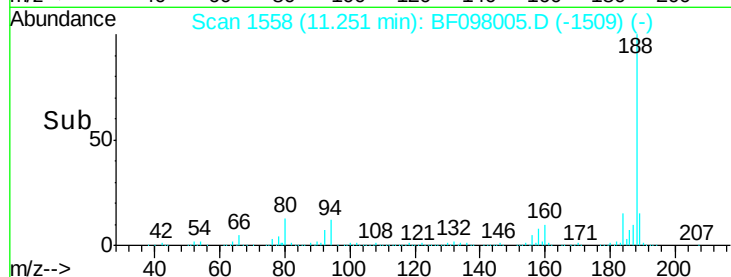
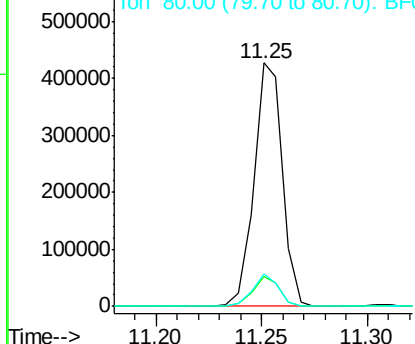
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.25 min Scan# 1558
Delta R.T. -0.01 min
Lab File: BF098005.D
Acq: 24 Aug 2017 16:45

Instrument :
BNA_F
ClientSampled :
HY-SB440

Tot Ion:188 Resp: 399352
Ion Ratio Lower Upper
188 100
94 12.4 9.4 14.2
80 13.4 10.2 15.2

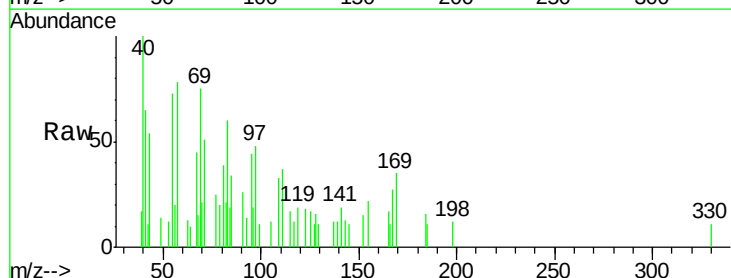


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

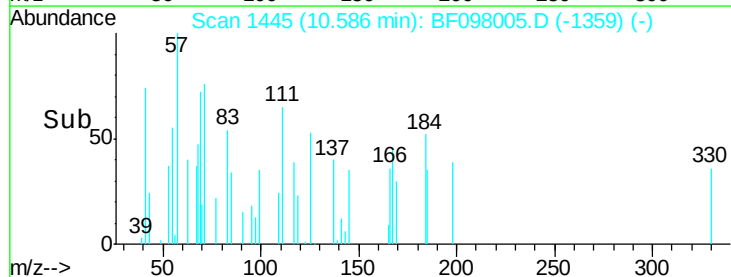
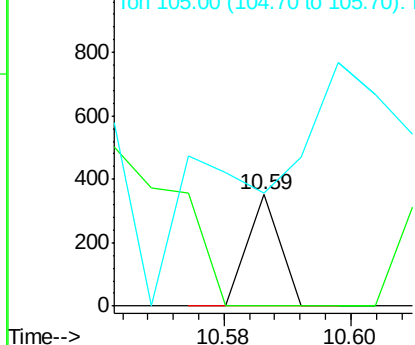


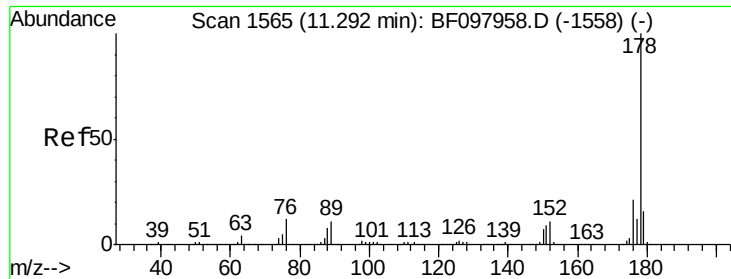
#64
4,6-Dinitro-2-methylphenol
Concen: 8.38 ng
RT: 10.59 min Scan# 1445
Delta R.T. 0.21 min
Lab File: BF098005.D
Acq: 24 Aug 2017 16:45

Tgt Ion:198 Resp: 124
Ion Ratio Lower Upper
198 100
51 0.0 53.2 93.2#
105 101.4 45.8 85.8#



Abundance Ion 198.00 (197.70 to 198.70): E
Ion 51.00 (50.70 to 51.70): BF0
Ion 105.00 (104.70 to 105.70): E

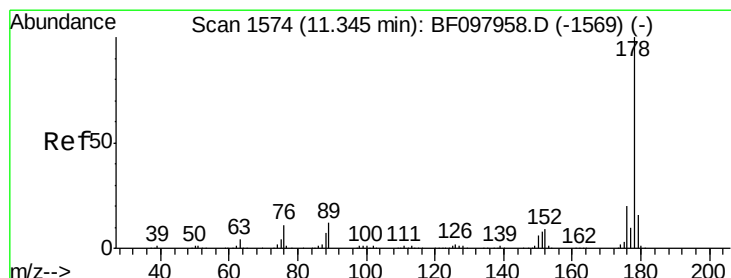
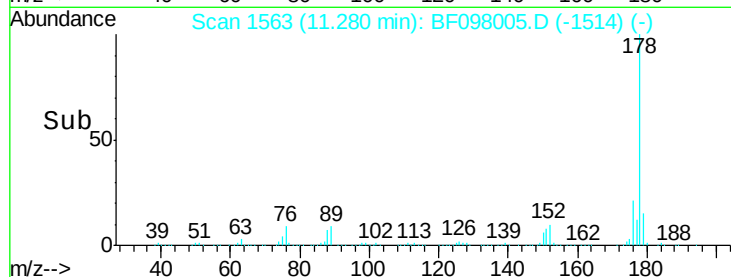
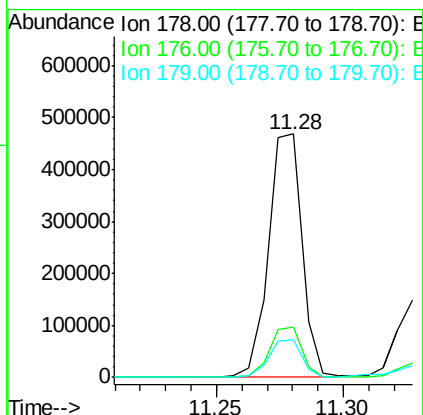
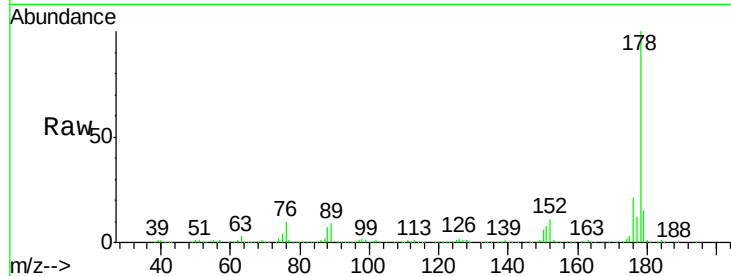




#70
 Phenanthrene
 Concen: 20.21 ng
 RT: 11.28 min Scan# 1563
 Delta R.T. -0.01 min
 Lab File: BF098005.D
 Acq: 24 Aug 2017 16:45

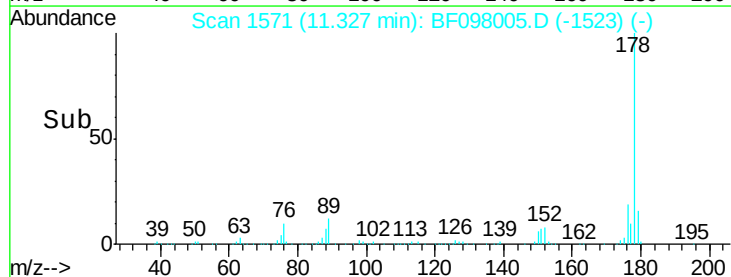
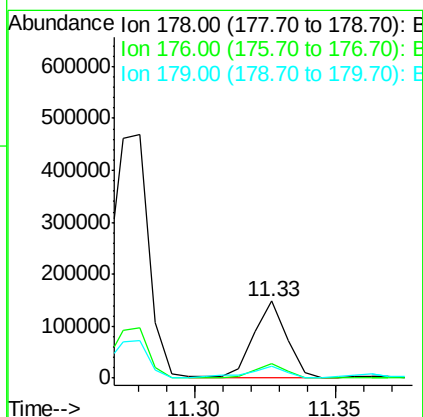
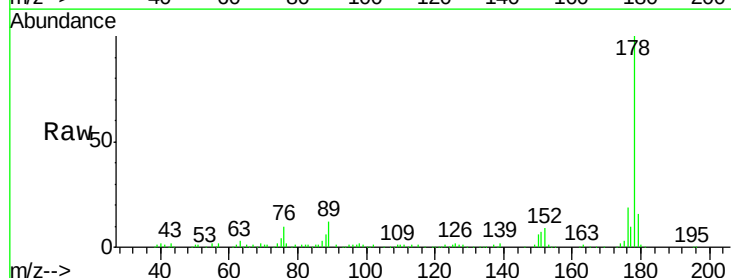
Instrument :
 BNA_F
 ClientSampleId :
 HY-SB440

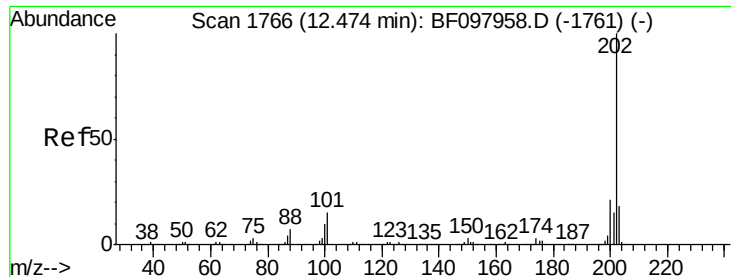
Tot Ion	Ratio	Lower	Upper
178	100		
176	20.5	16.2	24.4
179	15.4	12.6	19.0



#71
 Anthracene
 Concen: 5.47 ng
 RT: 11.33 min Scan# 1571
 Delta R.T. -0.02 min
 Lab File: BF098005.D
 Acq: 24 Aug 2017 16:45

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.8	23.8
179	15.8	12.7	19.1





#74

Fluoranthene

Concen: 19.71 ng

RT: 12.46 min Scan# 1764

Delta R.T. -0.01 min

Lab File: BF098005.D

Acq: 24 Aug 2017 16:45

Instrument :

BNA_F

ClientSampleId :

HY-SB440

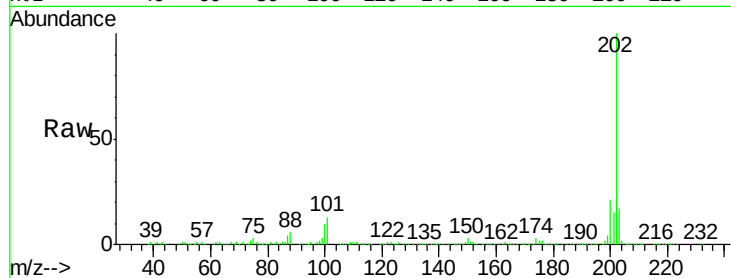
Tot Ion:202 Resp: 437684

Ion Ratio Lower Upper

202 100

101 13.1 0.0 33.2

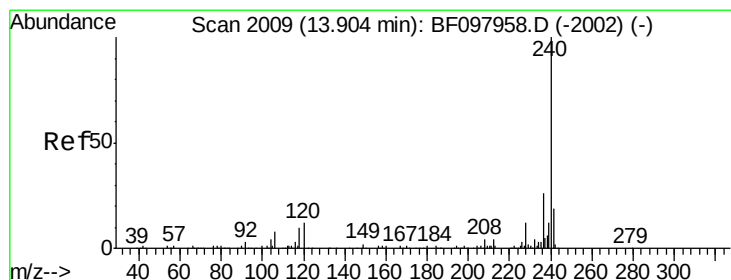
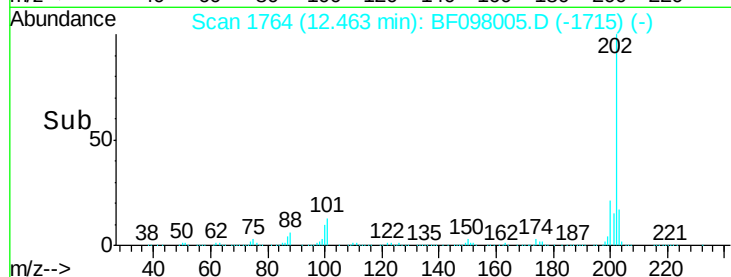
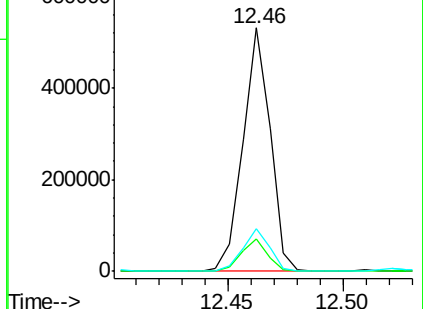
203 17.4 0.0 38.1



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: 13.89 min Scan# 2006

Delta R.T. -0.01 min

Lab File: BF098005.D

Acq: 24 Aug 2017 16:45

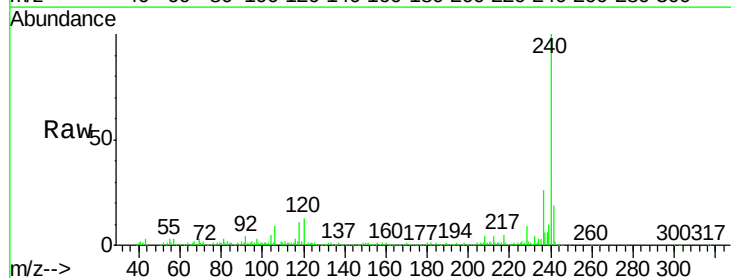
Tgt Ion:240 Resp: 286798

Ion Ratio Lower Upper

240 100

120 12.7 5.8 8.8#

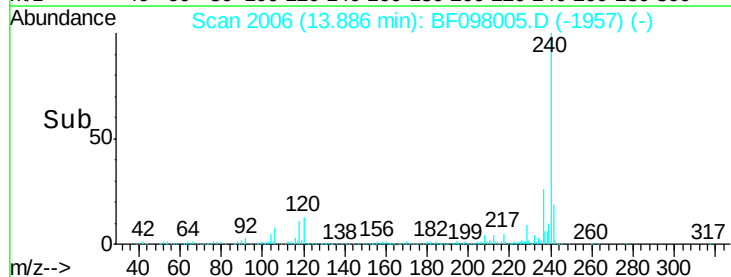
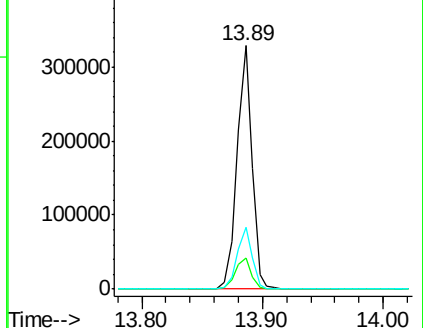
236 25.7 20.5 30.7

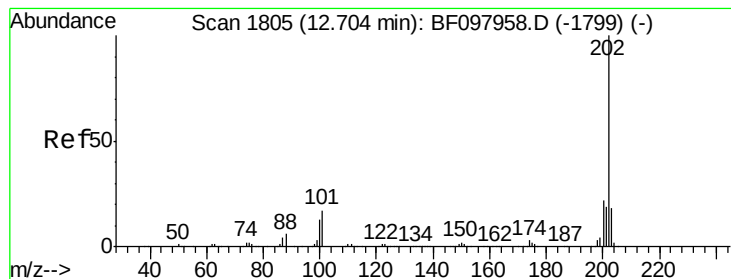


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 15.41 ng

RT: 12.69 min Scan# 1803

Delta R.T. -0.01 min

Lab File: BF098005.D

Acq: 24 Aug 2017 16:45

Instrument :

BNA_F

ClientSampleId :

HY-SB440

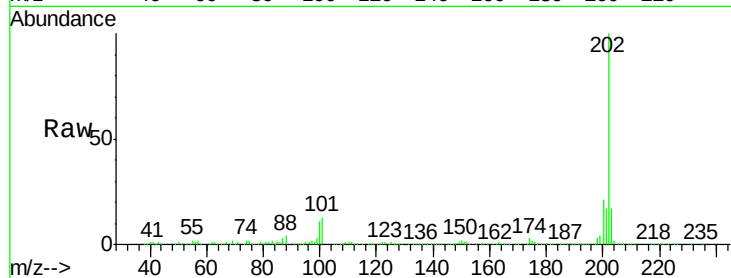
Tot Ion:202 Resp: 361562

Ion Ratio Lower Upper

202 100

200 21.4 17.6 26.4

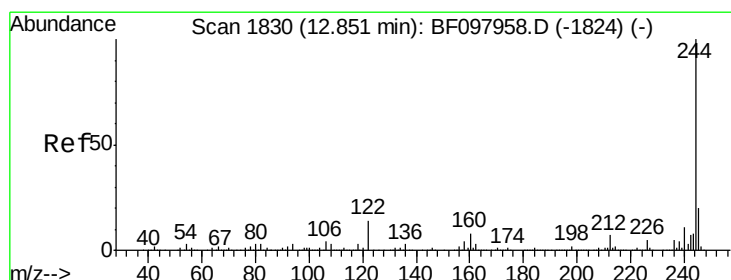
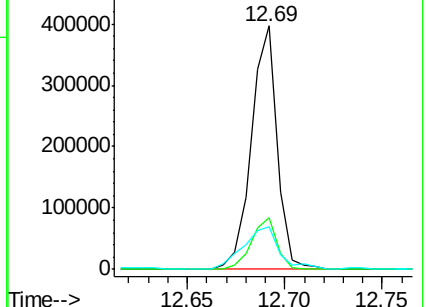
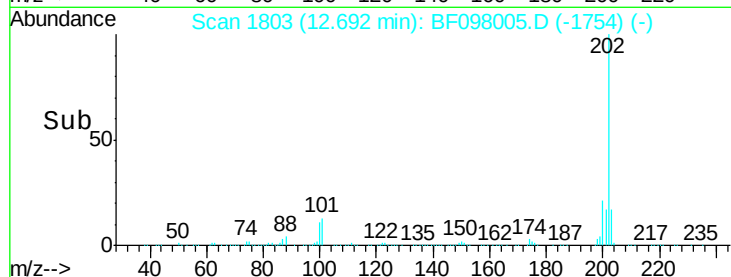
203 17.4 14.4 21.6



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: 5.34 ng

RT: 12.83 min Scan# 1827

Delta R.T. -0.02 min

Lab File: BF098005.D

Acq: 24 Aug 2017 16:45

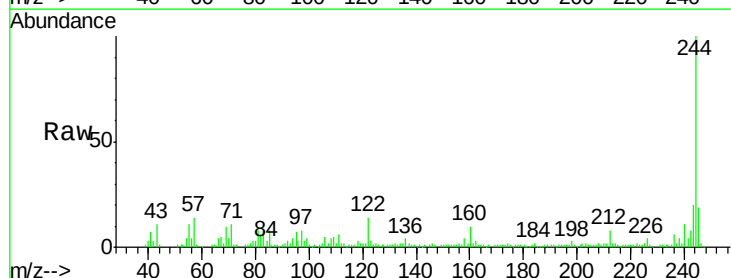
Tgt Ion:244 Resp: 73461

Ion Ratio Lower Upper

244 100

212 7.6 6.0 9.0

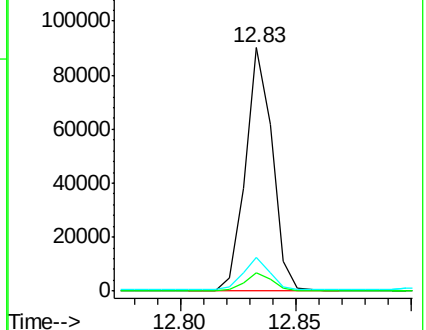
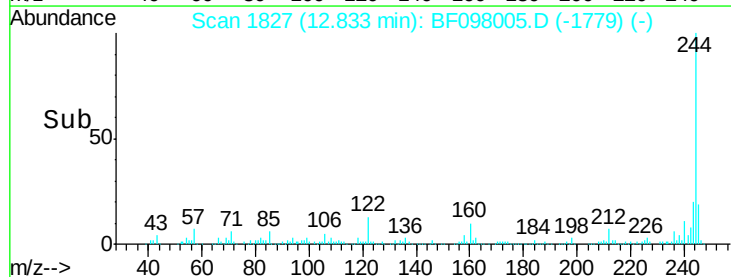
122 14.0 10.3 15.5

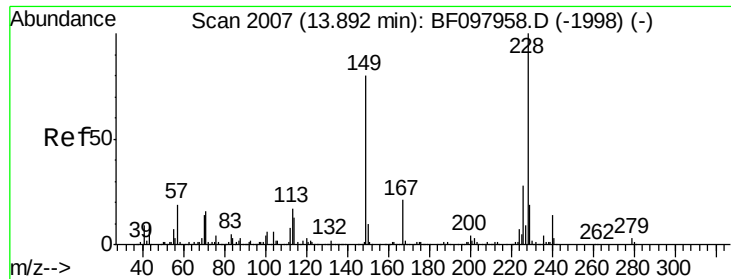


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 8.50 ng

RT: 13.87 min Scan# 2004

Delta R.T. -0.01 min

Lab File: BF098005.D

Acq: 24 Aug 2017 16:45

Instrument :

BNA_F

ClientSampleId :

HY-SB440

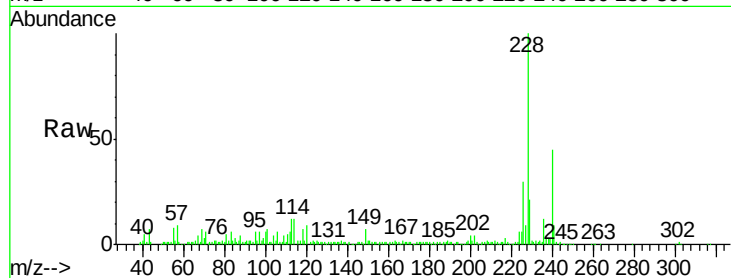
Tot Ion:228 Resp: 146132

Ion Ratio Lower Upper

228 100

226 29.7 22.6 33.8

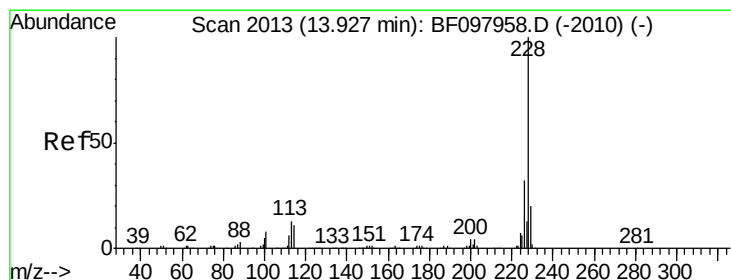
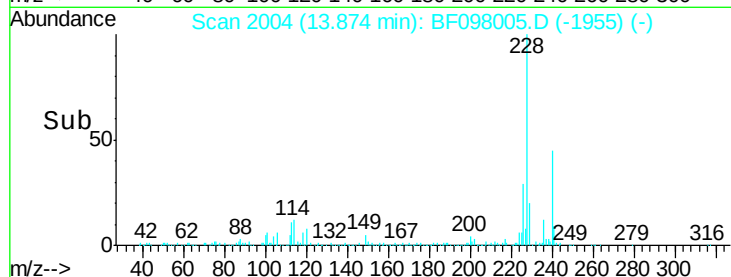
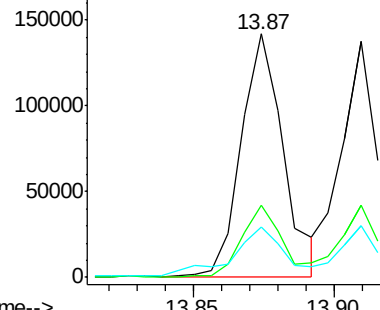
229 20.5 16.3 24.5



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#82

Chrysene

Concen: 6.96 ng

RT: 13.91 min Scan# 2010

Delta R.T. -0.02 min

Lab File: BF098005.D

Acq: 24 Aug 2017 16:45

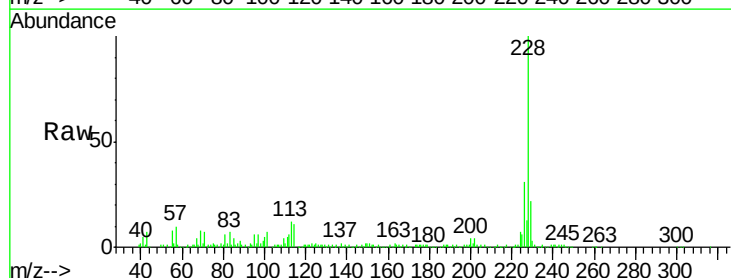
Tgt Ion:228 Resp: 119008

Ion Ratio Lower Upper

228 100

226 30.8 24.9 37.3

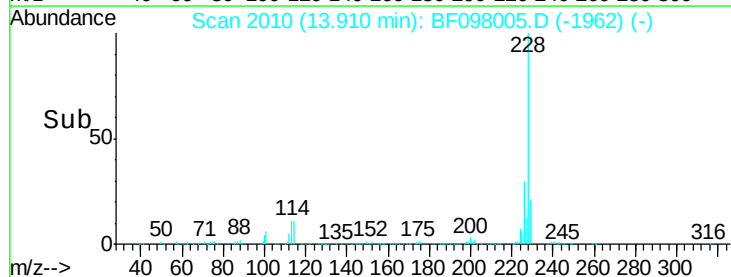
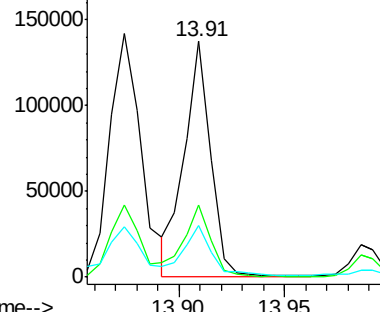
229 21.9 15.8 23.6

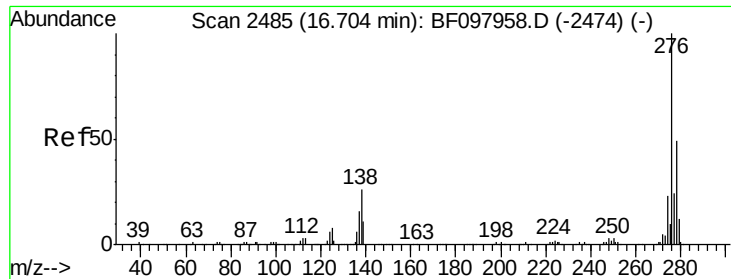


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

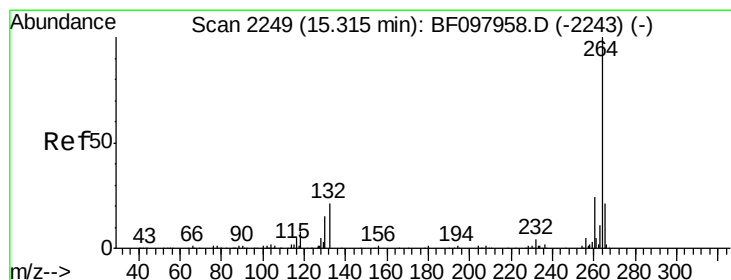
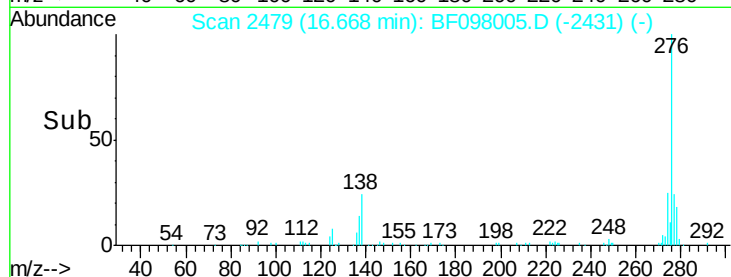
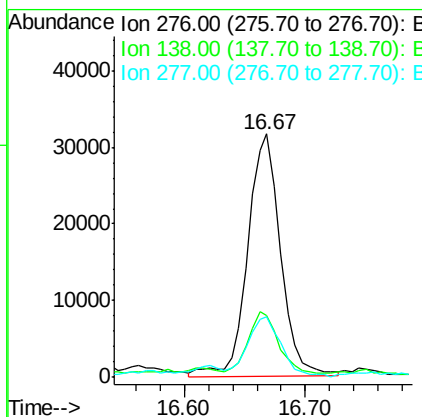
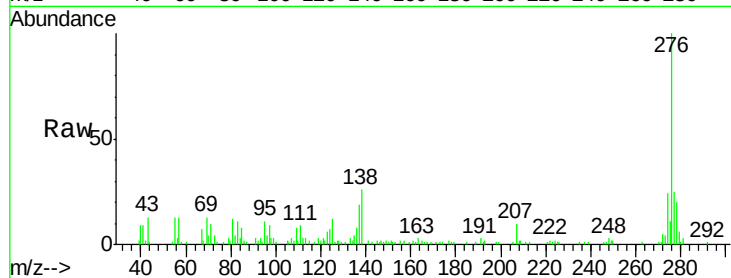




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 4.80 ng
 RT: 16.67 min Scan# 2479
 Delta R.T. -0.02 min
 Lab File: BF098005.D
 Acq: 24 Aug 2017 16:45

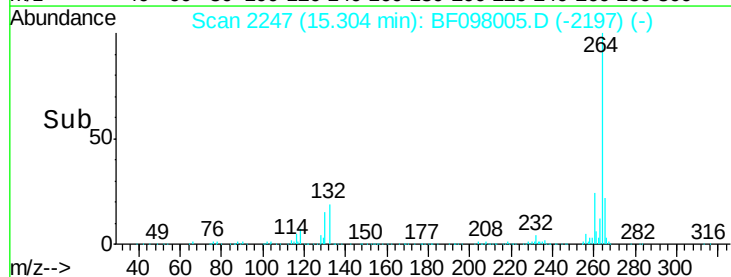
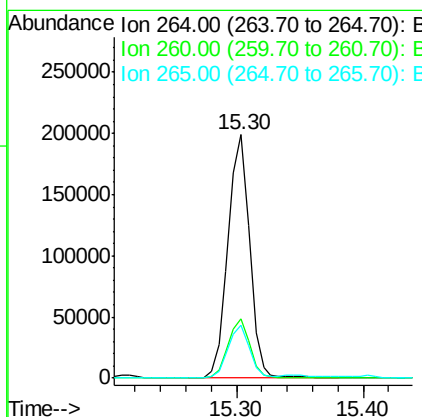
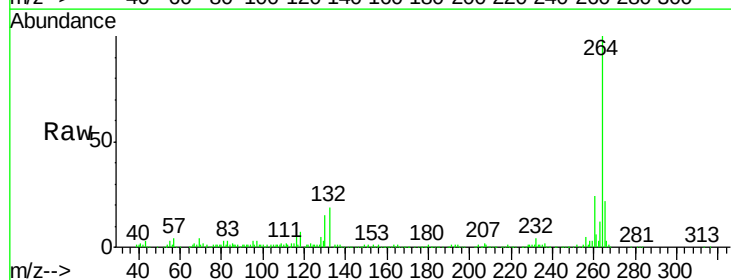
Instrument :
 BNA_F
 ClientSampleId :
 HY-SB440

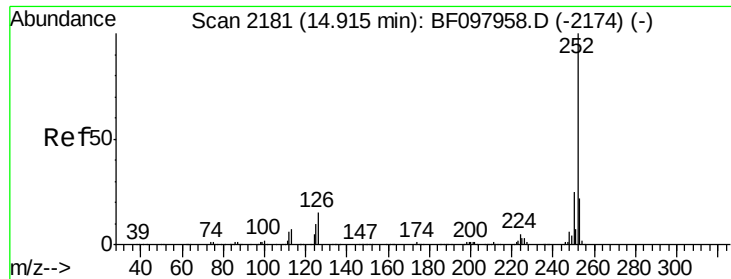
Tot Ion:276 Resp: 60322
 Ion Ratio Lower Upper
 276 100
 138 24.6 27.8 41.6#
 277 25.7 20.2 30.4



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.30 min Scan# 2247
 Delta R.T. -0.01 min
 Lab File: BF098005.D
 Acq: 24 Aug 2017 16:45

Tgt Ion:264 Resp: 236413
 Ion Ratio Lower Upper
 264 100
 260 24.3 19.5 29.3
 265 21.5 17.2 25.8





#87

Benzo(b)fluoranthene

Concen: 12.24 ng

RT: 14.90 min Scan# 2178

Delta R.T. -0.01 min

Lab File: BF098005.D

Acq: 24 Aug 2017 16:45

Instrument :

BNA_F

ClientSampleId :

HY-SB440

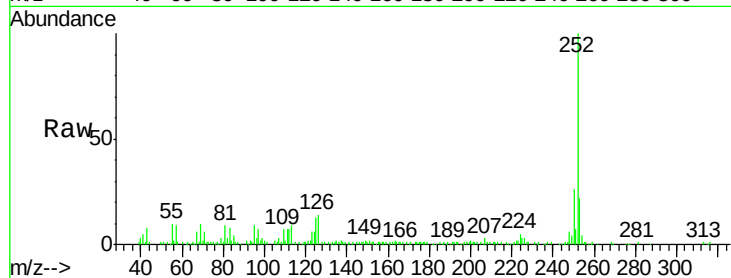
Tot Ion:252 Resp: 182363

Ion Ratio Lower Upper

252 100

253 21.7 18.1 27.1

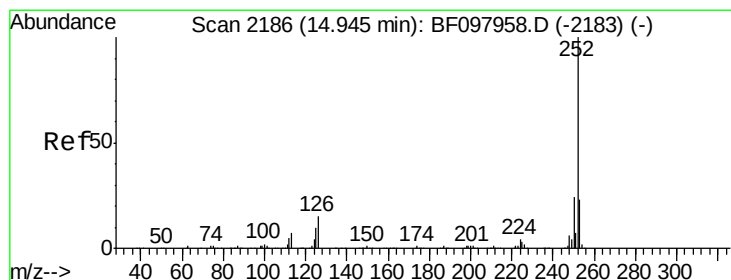
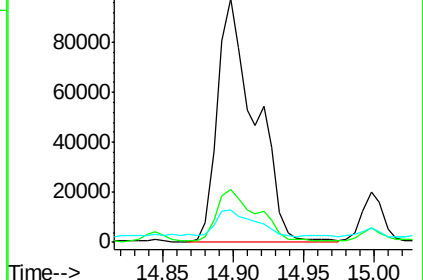
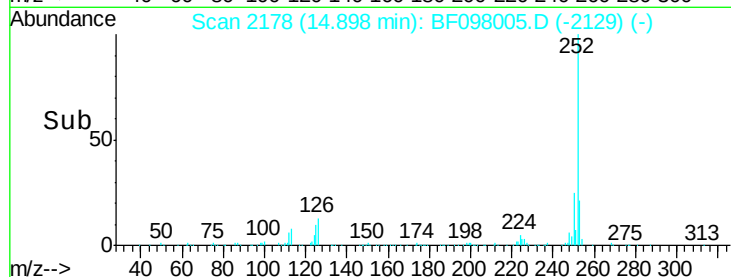
125 13.1 9.8 14.8



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: 13.03 ng

RT: 14.90 min Scan# 2178

Delta R.T. -0.04 min

Lab File: BF098005.D

Acq: 24 Aug 2017 16:45

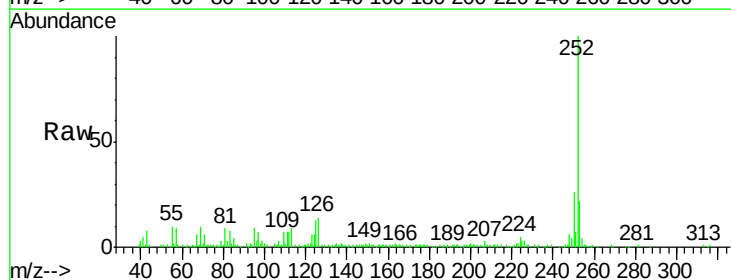
Tgt Ion:252 Resp: 182363

Ion Ratio Lower Upper

252 100

253 21.7 18.4 27.6

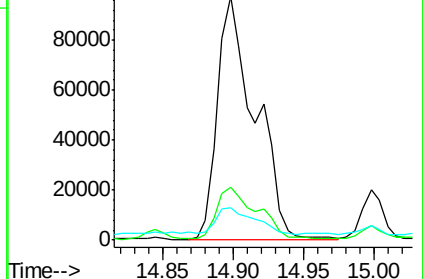
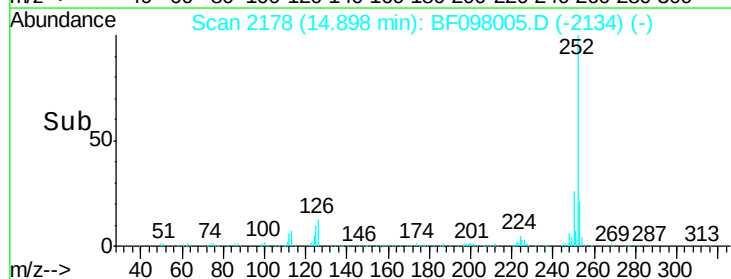
125 13.1 13.1 19.7

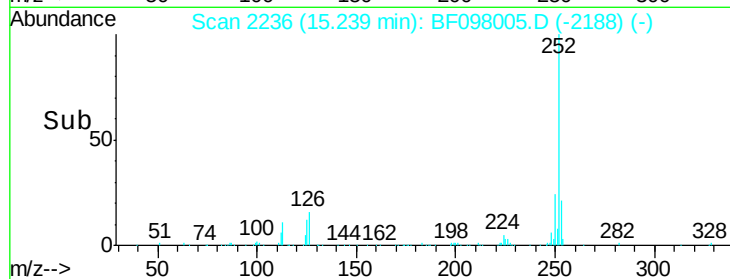
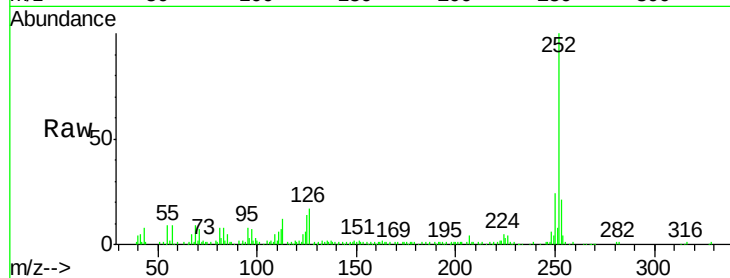
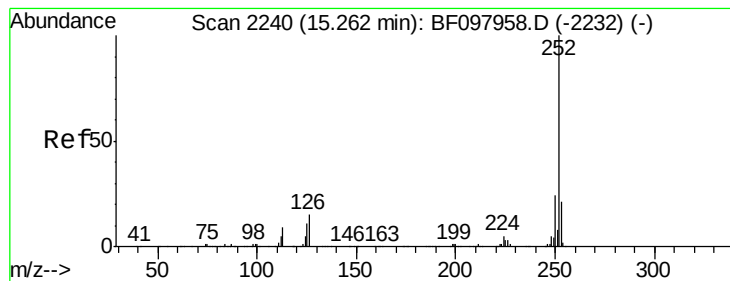


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 7.32 ng

RT: 15.24 min Scan# 2236

Delta R.T. -0.02 min

Lab File: BF098005.D

Acq: 24 Aug 2017 16:45

Instrument :

BNA_F

ClientSampleId :

HY-SB440

Tot Ion: 252 Resp: 96514

Ion Ratio Lower Upper

252 100

253 21.4 17.5 26.3

125 14.4 11.0 16.4

