

Data Path : Z:\HPCHEM1\BNA F\DATA\BF071917\
 Data File : BF096886.D
 Acq On : 19 Jul 2017 22:48
 Operator : SJ/JU
 Sample : I4276-01
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jul 20 00:56:30 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF071317.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jul 18 13:33:22 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.59	152	101384	20.00	ng	-0.01
21) Naphthalene-d8	7.87	136	449731	20.00	ng	-0.02
38) Acenaphthene-d10	9.62	164	163583	20.00	ng	-0.01
63) Phenanthrene-d10	11.10	188	251241	20.00	ng	0.00
75) Chrysene-d12	13.73	240	177120	20.00	ng	0.00
86) Perylene-d12	15.11	264	149532	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.20	112	614405	91.12	ng	0.00
7) Phenol-d6	6.24	99	815754	100.82	ng	-0.01
23) Nitrobenzene-d5	7.15	82	477690	65.79	ng	-0.02
41) 2,4,6-Tribromophenol	10.40	330	125945	90.20	ng	-0.02
44) 2-Fluorobiphenyl	8.95	172	649817	62.76	ng	-0.01
78) Terphenyl-d14	12.69	244	393082	38.49	ng	0.00

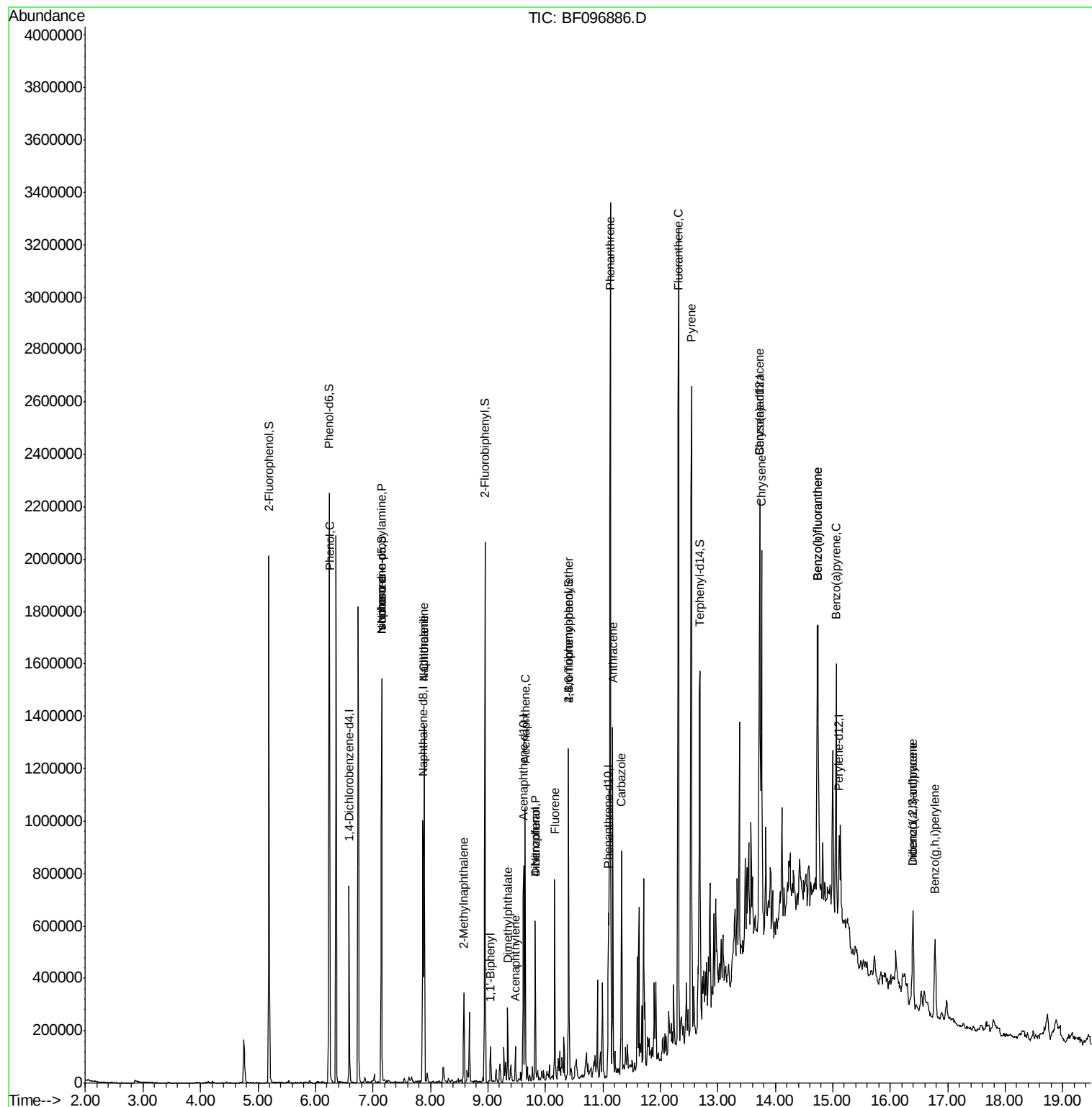
Target Compounds				Qvalue		
10) Phenol	6.25	94	44233	4.84	ng	94
19) n-Nitroso-di-n-propylamine	7.15	70	63964	13.12	ng	# 89
25) Isophorone	7.15	82	474911	35.16	ng	# 67
31) Naphthalene	7.89	128	560575	26.31	ng	99
33) 4-Chloroaniline	7.89	127	72928	8.64	ng	# 34
37) 2-Methylnaphthalene	8.58	142	94836	6.98	ng	98
45) 1,1'-Biphenyl	9.05	154	30931	2.20	ng	99
48) Acenaphthylene	9.48	152	47166	2.87	ng	97
49) Dimethylphthalate	9.35	163	107639	8.74	ng	99
51) Acenaphthene	9.65	154	208014	21.39	ng	99
54) Dibenzofuran	9.82	168	208106	15.27	ng	99
55) 4-Nitrophenol	9.82	139	78872	34.16	ng	# 27
57) Fluorene	10.16	166	194734	19.34	ng	96
66) 4-Bromophenyl-phenylether	10.41	248	8537	3.33	ng	# 1
70) Phenanthrene	11.13	178	1570873	114.99	ng	99
71) Anthracene	11.17	178	475096	34.40	ng	99
72) Carbazole	11.33	167	321149	24.01	ng	100
74) Fluoranthene	12.32	202	1668786	127.62	ng	99
77) Pvrene	12.55	202	1325386	82.45	ng	99
80) Benzo(a)anthracene	13.73	228	671475	60.84	ng	99
82) Chrysene	13.76	228	577979	53.20	ng	97
85) Indeno(1,2,3-cd)pyrene	16.39	276	245805	26.07	ng	94
87) Benzo(b)fluoranthene	14.73	252	839702	93.11	ng	# 96
88) Benzo(k)fluoranthene	14.73	252	839702	98.33	ng	100
89) Benzo(a)pyrene	15.06	252	443211	53.58	ng	97
90) Dibenzo(a,h)anthracene	16.40	278	63641	8.36	ng	# 76
91) Benzo(g,h,i)perylene	16.78	276	218568	26.82	ng	95

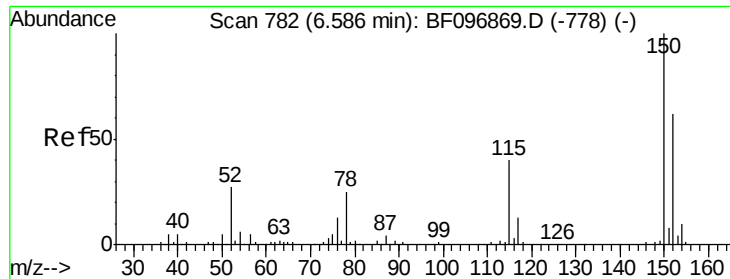
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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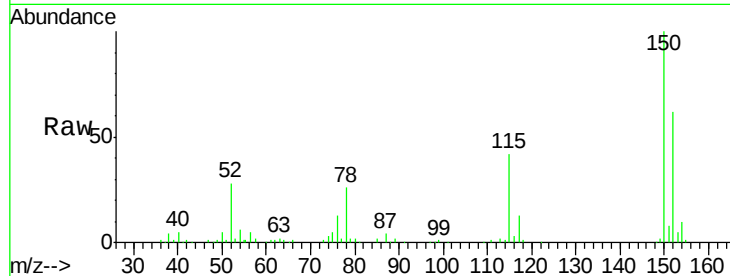


#1

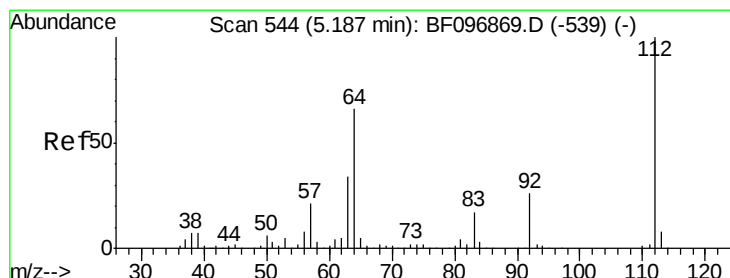
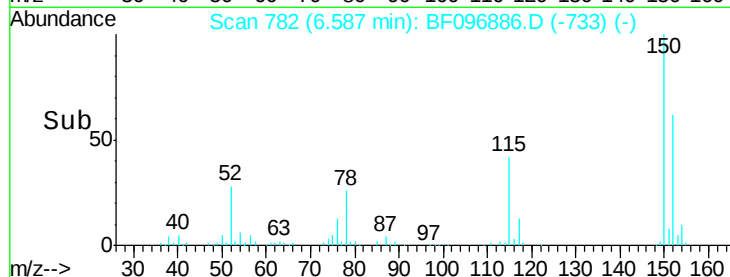
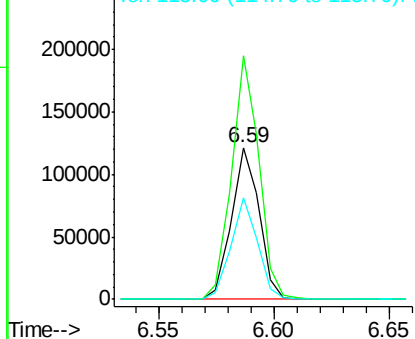
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.59 min Scan# 782
Delta R.T. -0.01 min
Lab File: BF096886.D
Acq: 19 Jul 2017 22:48

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 101384
Ion Ratio Lower Upper
152 100
150 160.1 126.2 189.2
115 67.1 52.2 78.2



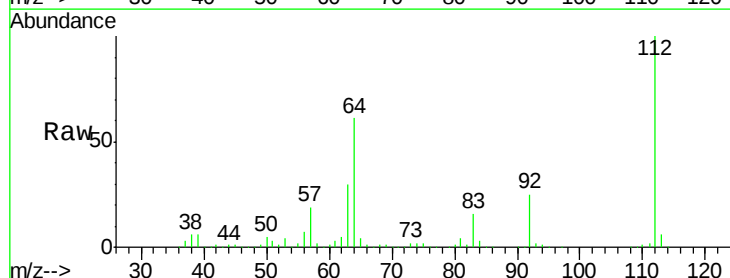
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



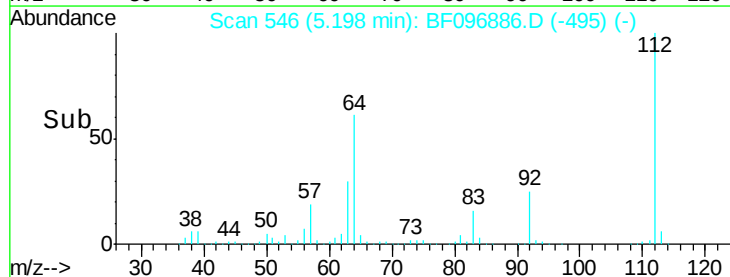
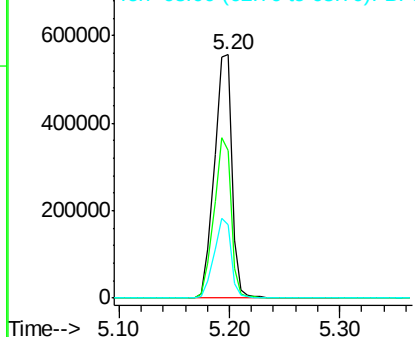
#5

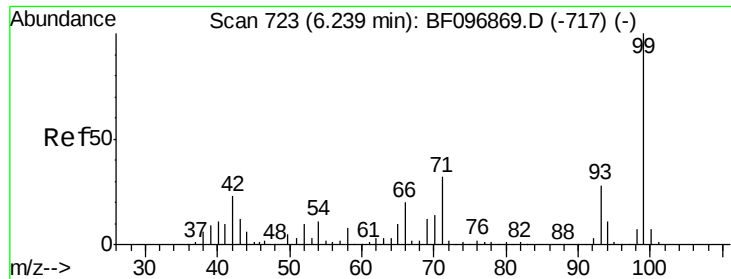
2-Fluorophenol
Concen: 91.12 ng
RT: 5.20 min Scan# 546
Delta R.T. 0.00 min
Lab File: BF096886.D
Acq: 19 Jul 2017 22:48

Tgt Ion:112 Resp: 614405
Ion Ratio Lower Upper
112 100
64 60.5 46.0 69.0
63 30.2 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: 100.82 ng

RT: 6.24 min Scan# 723

Delta R.T. -0.01 min

Lab File: BF096886.D

Acq: 19 Jul 2017 22:48

Instrument :

BNA_F

ClientSampled :

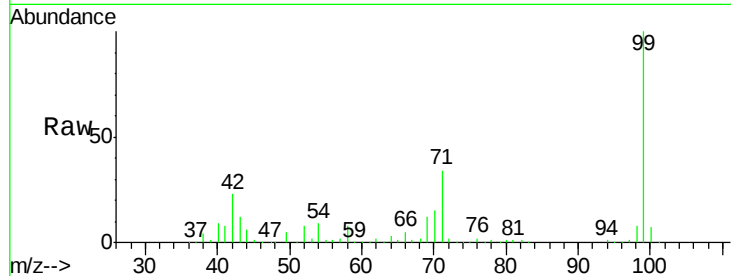
Tot Ion: 99 Resp: 815754

Ion Ratio Lower Upper

99 100

42 23.1 13.5 20.3#

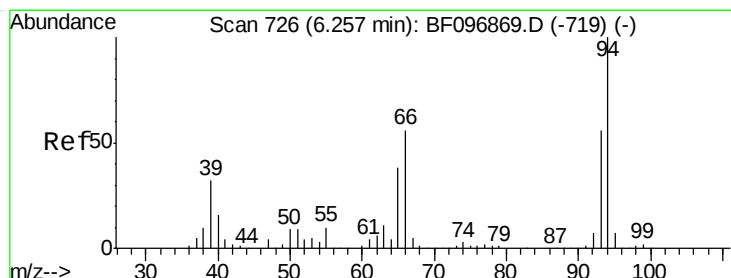
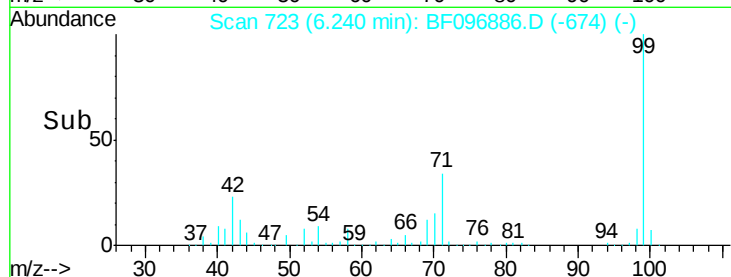
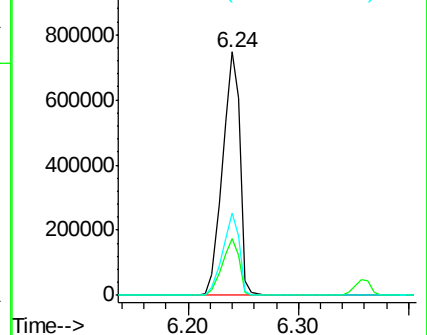
71 33.6 24.5 36.7



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



#10

Phenol

Concen: 4.84 ng

RT: 6.25 min Scan# 725

Delta R.T. -0.02 min

Lab File: BF096886.D

Acq: 19 Jul 2017 22:48

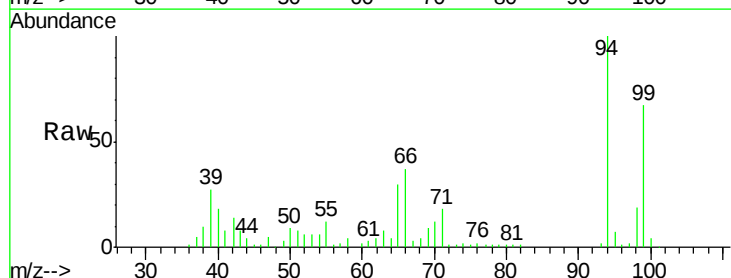
Tgt Ion: 94 Resp: 44233

Ion Ratio Lower Upper

94 100

65 29.6 9.9 49.9

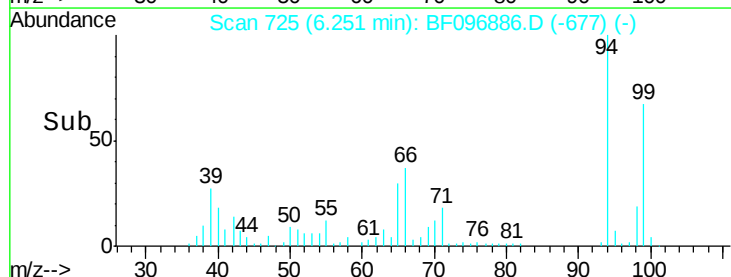
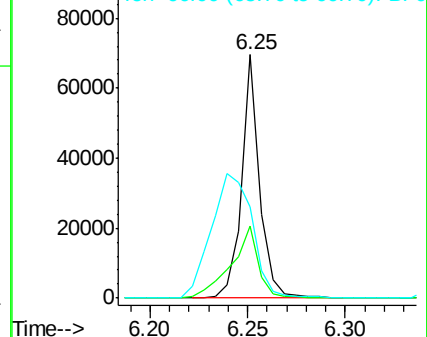
66 37.3 23.1 63.1

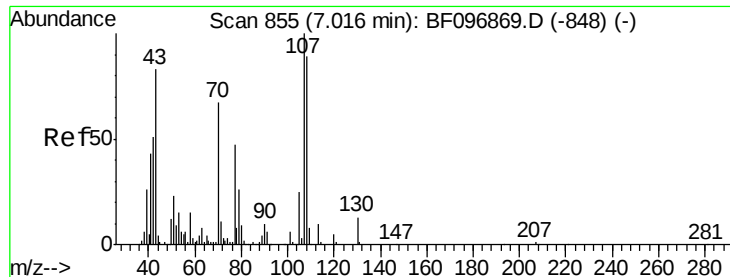


Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0

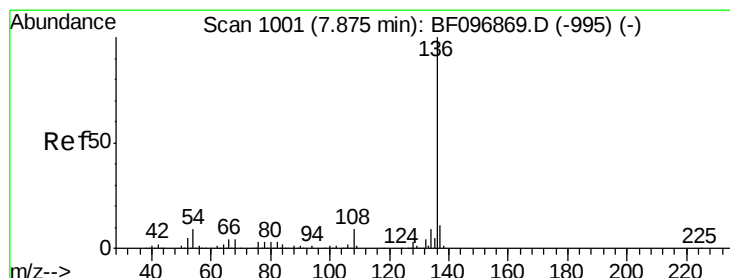
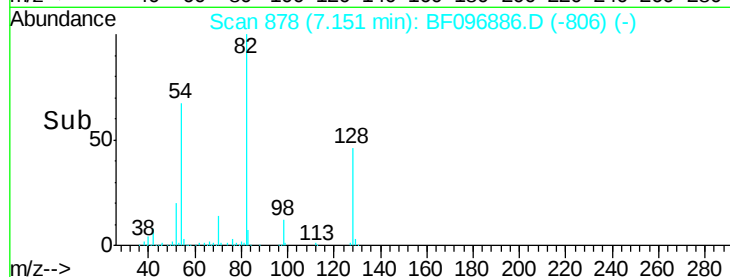
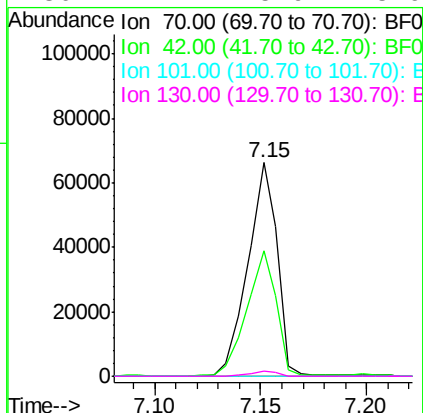
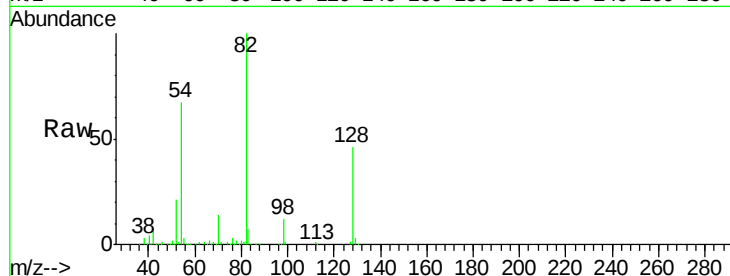




#19
n-Nitroso-di-n-propylamine
Concen: 13.12 ng
RT: 7.15 min Scan# 878
Delta R.T. 0.12 min
Lab File: BF096886.D
Acq: 19 Jul 2017 22:48

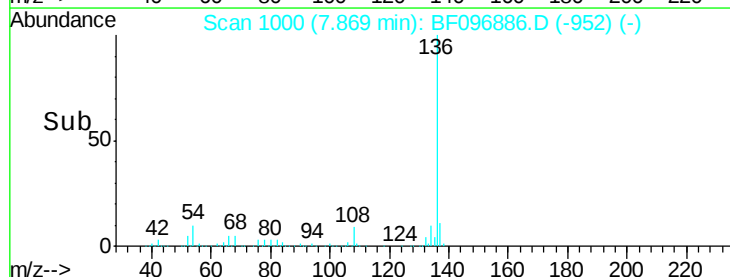
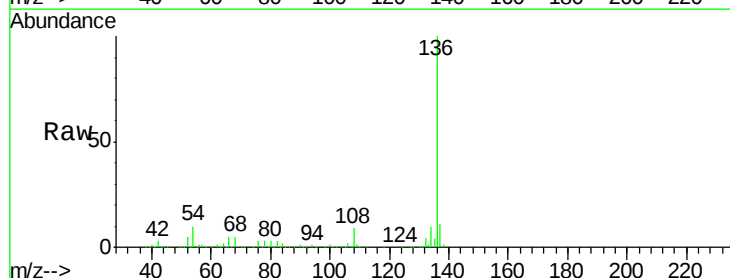
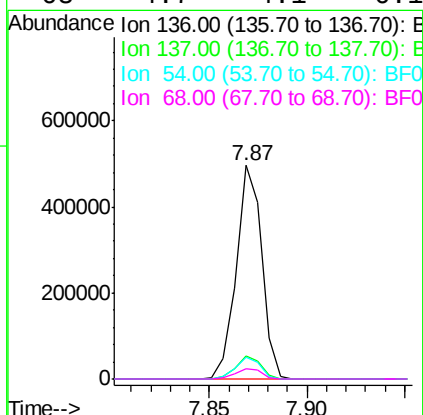
Instrument :
BNA_F
ClientSampleId :

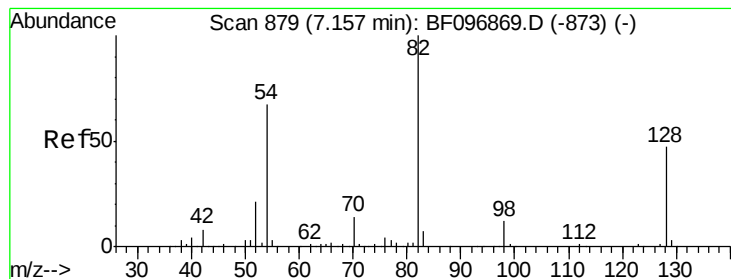
Tot Ion: 70 Resp: 63964
Ion Ratio Lower Upper
70 100
42 59.0 47.2 70.8
101 0.0 7.2 10.8#
130 2.2 15.9 23.9#



#21
Naphthalene-d8
Concen: 20.00 ng
RT: 7.87 min Scan# 1000
Delta R.T. -0.02 min
Lab File: BF096886.D
Acq: 19 Jul 2017 22:48

Tgt Ion: 136 Resp: 449731
Ion Ratio Lower Upper
136 100
137 11.0 8.5 12.7
54 10.5 4.9 7.3#
68 4.7 4.1 6.1





#23

Nitrobenzene-d5

Concen: 65.79 ng

RT: 7.15 min Scan# 878

Delta R.T. -0.02 min

Lab File: BF096886.D

Acq: 19 Jul 2017 22:48

Instrument :

BNA_F

ClientSampleId :

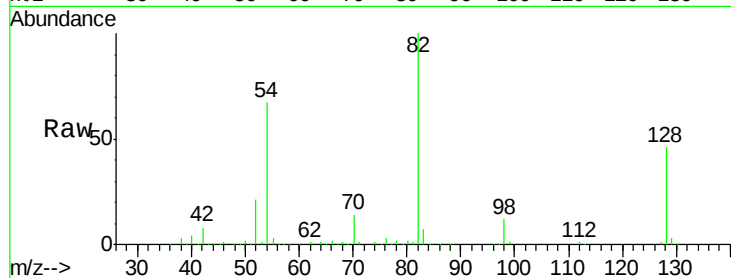
Tot Ion: 82 Resp: 477690

Ion Ratio Lower Upper

82 100

128 45.8 34.0 51.0

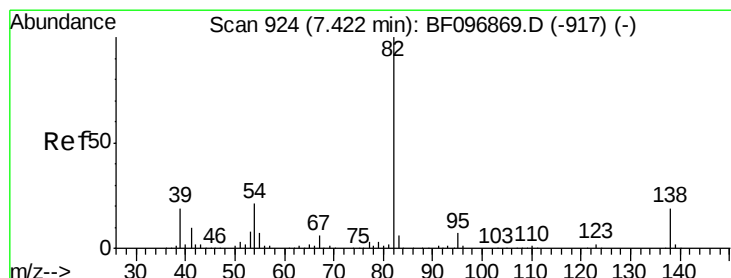
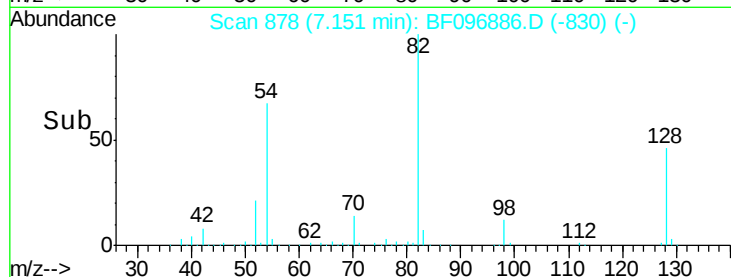
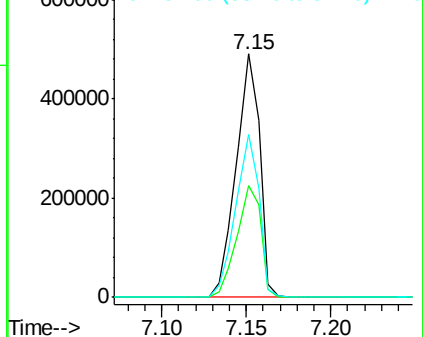
54 67.1 42.2 63.2#



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: 35.16 ng

RT: 7.15 min Scan# 878

Delta R.T. -0.28 min

Lab File: BF096886.D

Acq: 19 Jul 2017 22:48

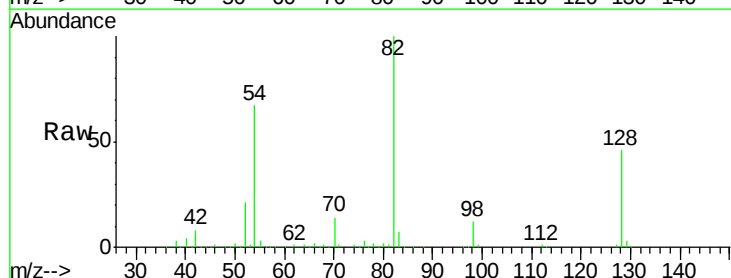
Tgt Ion: 82 Resp: 474911

Ion Ratio Lower Upper

82 100

95 0.0 5.3 7.9#

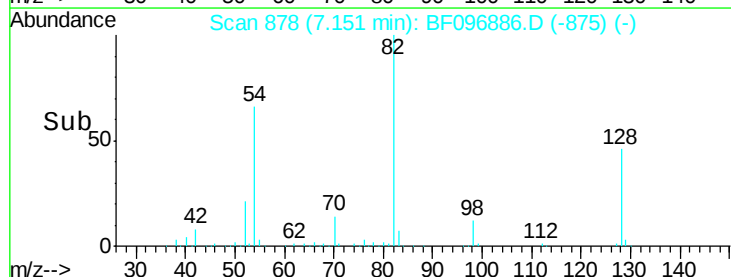
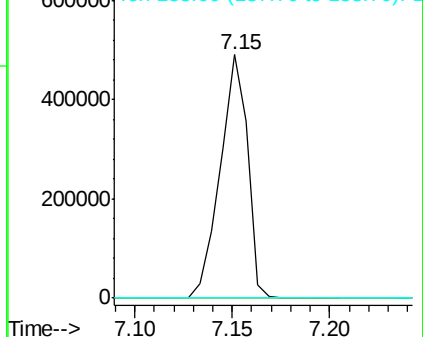
138 0.0 13.1 19.7#

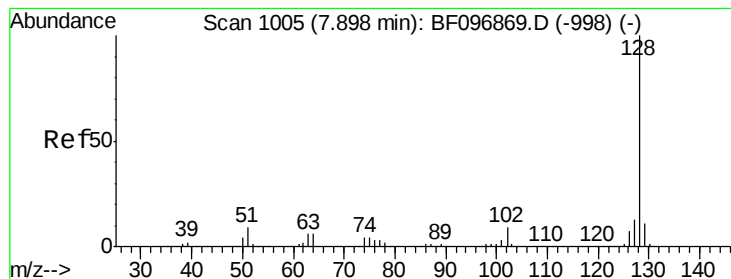


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 95.00 (94.70 to 95.70): BF0

Ion 138.00 (137.70 to 138.70): BF0





#31

Naphthalene

Concen: 26.31 ng

RT: 7.89 min Scan# 1004

Delta R.T. -0.02 min

Lab File: BF096886.D

Acq: 19 Jul 2017 22:48

Instrument :

BNA_F

ClientSampleId :

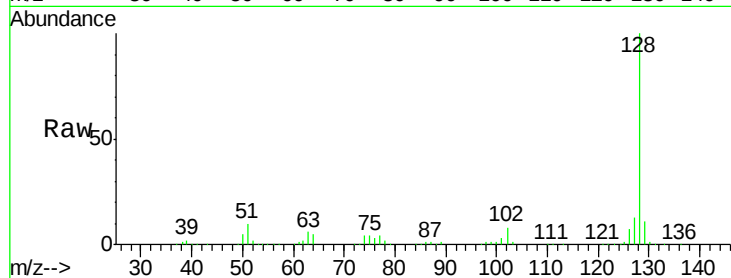
Tot Ion:128 Resp: 560575

Ion Ratio Lower Upper

128 100

129 10.8 9.0 13.6

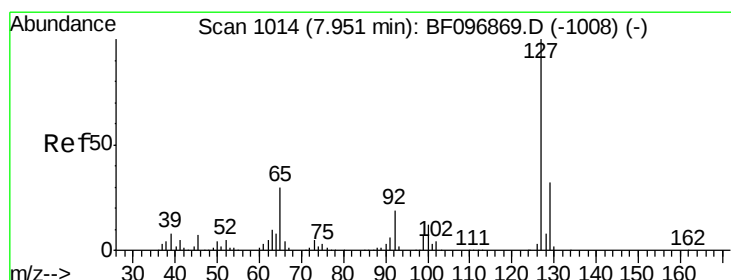
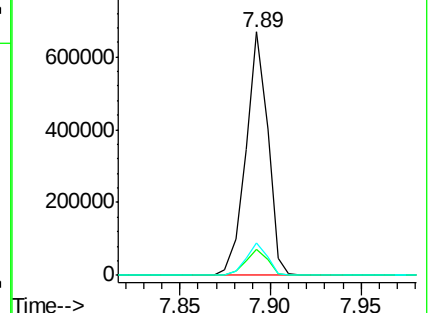
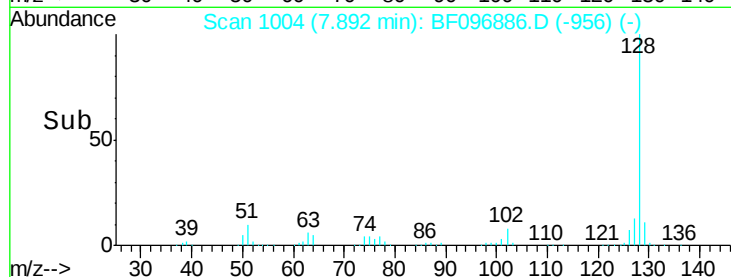
127 13.2 10.8 16.2



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: 8.64 ng

RT: 7.89 min Scan# 1004

Delta R.T. -0.07 min

Lab File: BF096886.D

Acq: 19 Jul 2017 22:48

Tgt Ion:127 Resp: 72928

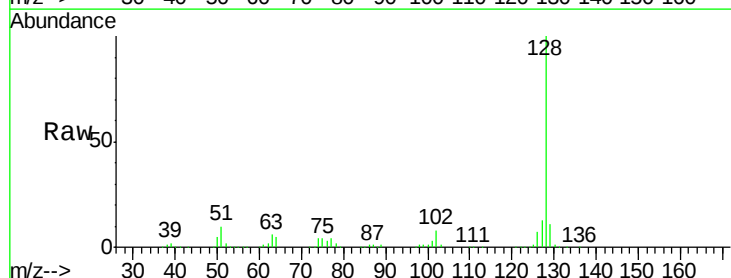
Ion Ratio Lower Upper

127 100

129 81.5 26.2 39.2#

65 0.0 27.8 41.8#

92 0.0 16.8 25.2#

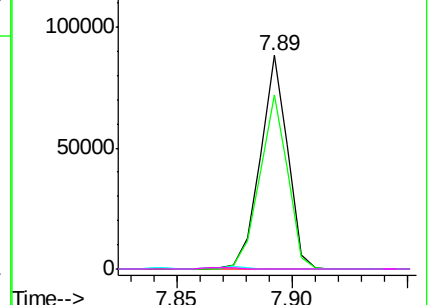
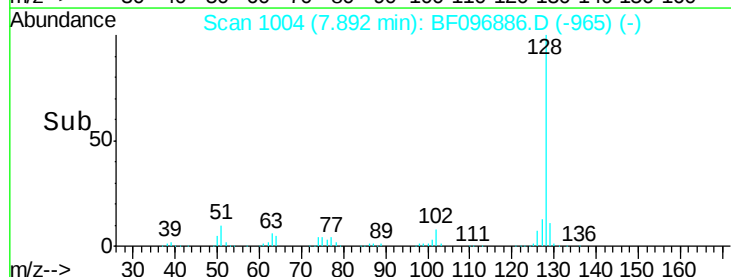


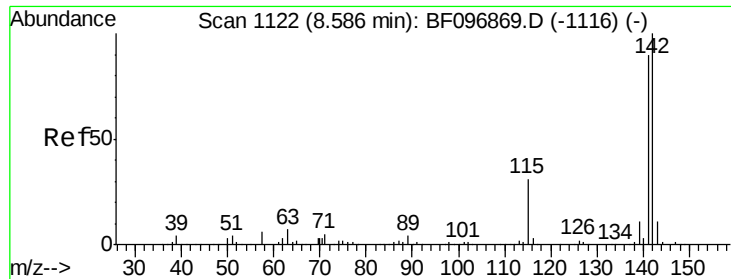
Abundance Ion 127.00 (126.70 to 127.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 65.00 (64.70 to 65.70): BF0

Ion 92.00 (91.70 to 92.70): BF0

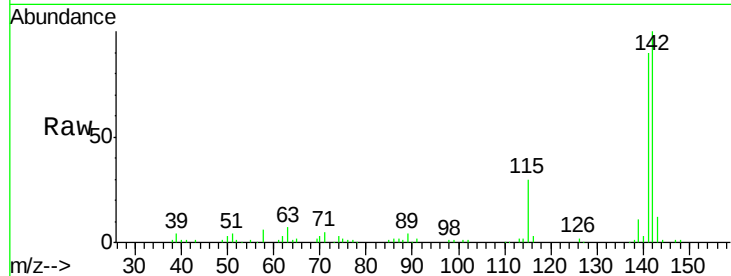




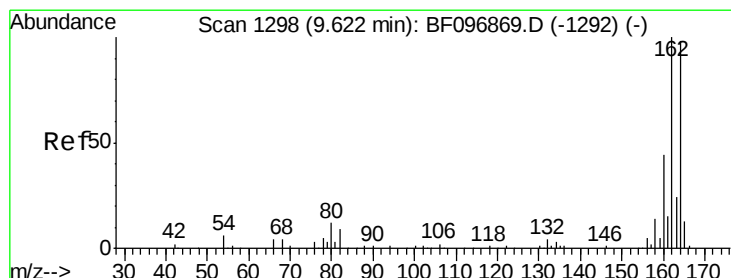
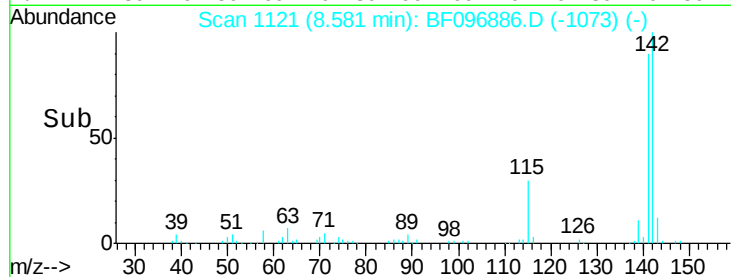
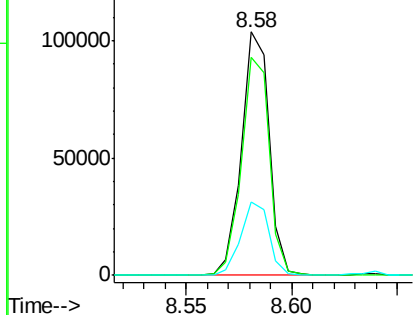
#37
 2-Methylnaphthalene
 Concen: 6.98 ng
 RT: 8.58 min Scan# 1121
 Delta R.T. -0.02 min
 Lab File: BF096886.D
 Acq: 19 Jul 2017 22:48

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:142 Resp: 94836
 Ion Ratio Lower Upper
 142 100
 141 89.8 71.3 106.9
 115 30.4 27.1 40.7

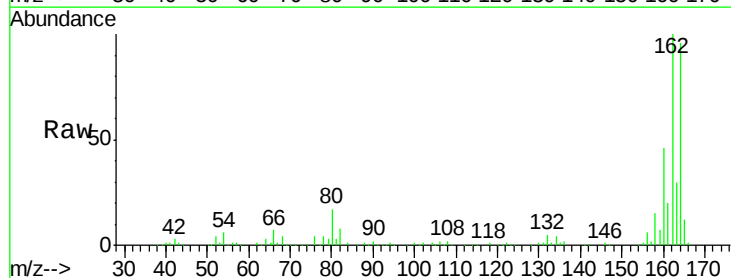


Abundance Ion 142.00 (141.70 to 142.70): E
 Ion 141.00 (140.70 to 141.70): E
 Ion 115.00 (114.70 to 115.70): E

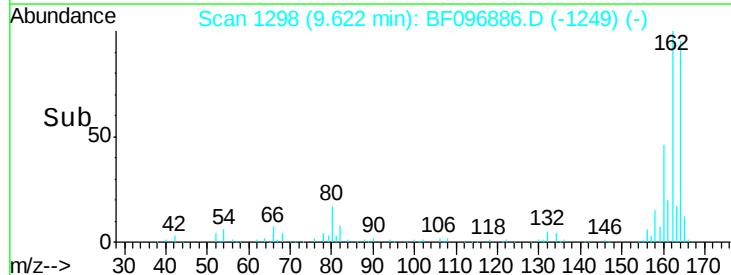
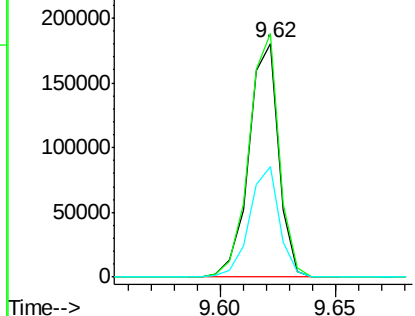


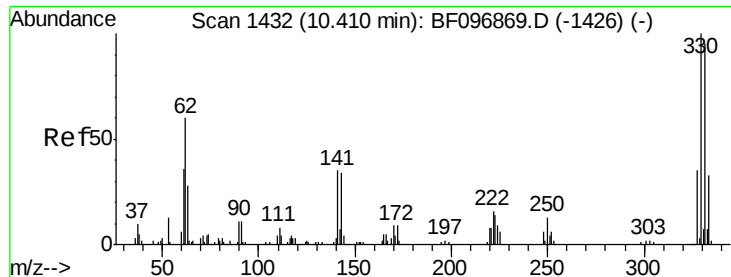
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.62 min Scan# 1298
 Delta R.T. -0.01 min
 Lab File: BF096886.D
 Acq: 19 Jul 2017 22:48

Tgt Ion:164 Resp: 163583
 Ion Ratio Lower Upper
 164 100
 162 104.2 82.6 123.8
 160 47.5 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

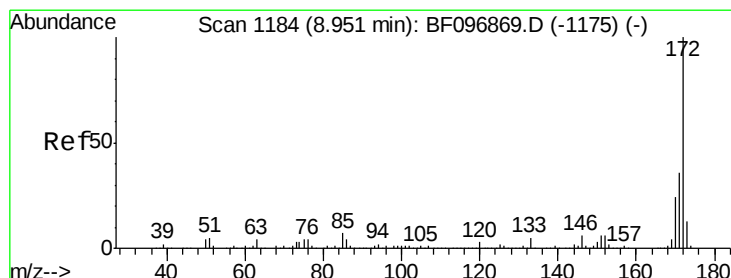
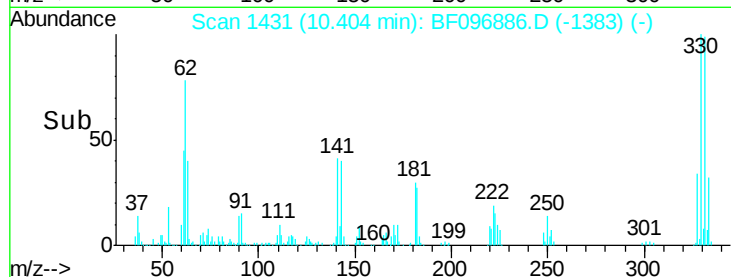
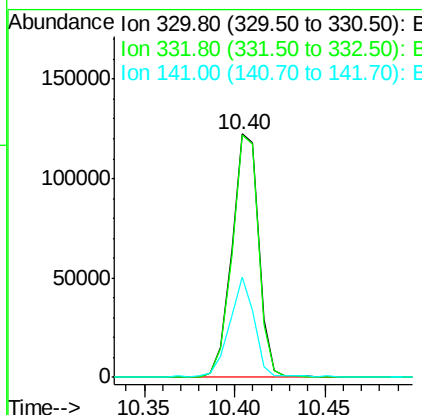
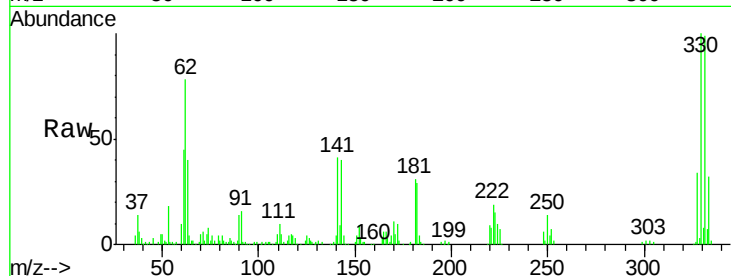




#41
 2,4,6-Tribromophenol
 Concen: 90.20 ng
 RT: 10.40 min Scan# 1431
 Delta R.T. -0.02 min
 Lab File: BF096886.D
 Acq: 19 Jul 2017 22:48

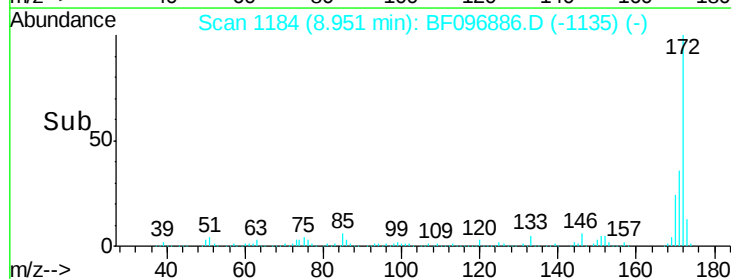
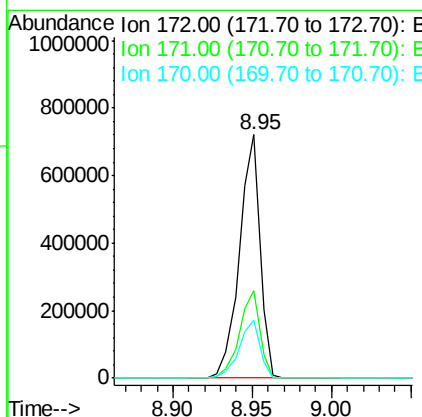
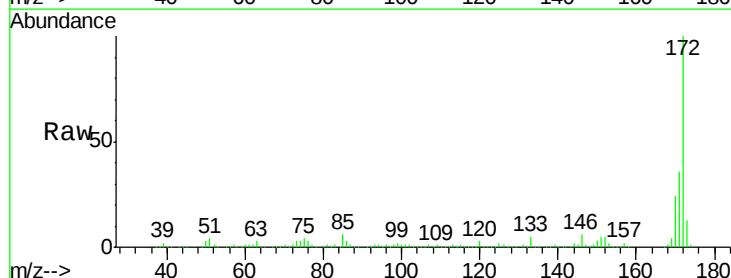
Instrument :
 BNA_F
 ClientSampleId :

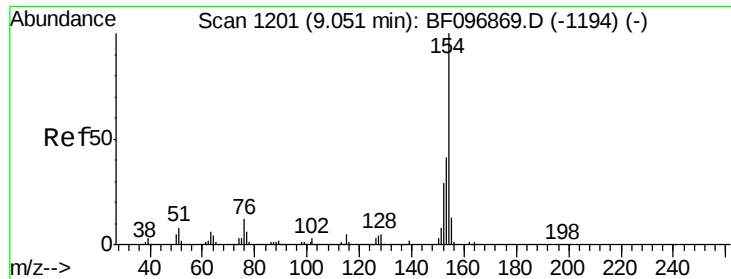
Tot Ion	Ratio	Lower	Upper
330	100		
332	98.3	76.6	115.0
141	39.1	31.4	47.2



#44
 2-Fluorobiphenyl
 Concen: 62.76 ng
 RT: 8.95 min Scan# 1184
 Delta R.T. -0.01 min
 Lab File: BF096886.D
 Acq: 19 Jul 2017 22:48

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.9	29.6	44.4
170	23.9	19.8	29.8





#45

1,1'-Biphenyl

Concen: 2.20 ng

RT: 9.05 min Scan# 1200

Delta R.T. -0.02 min

Lab File: BF096886.D

Acq: 19 Jul 2017 22:48

Instrument :

BNA_F

ClientSampled :

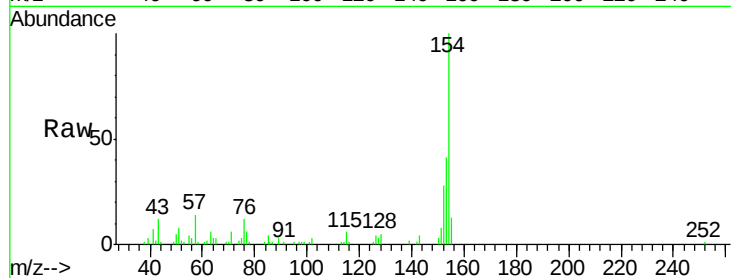
Tot Ion:154 Resp: 30931

Ion Ratio Lower Upper

154 100

153 41.0 21.2 61.2

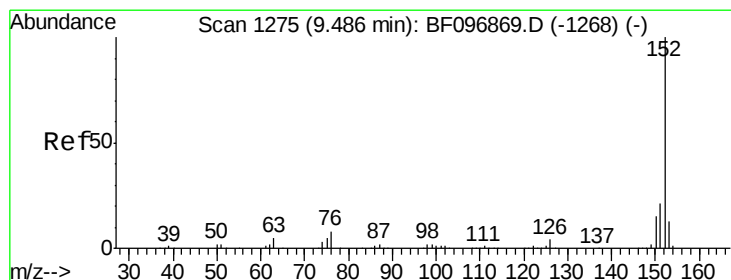
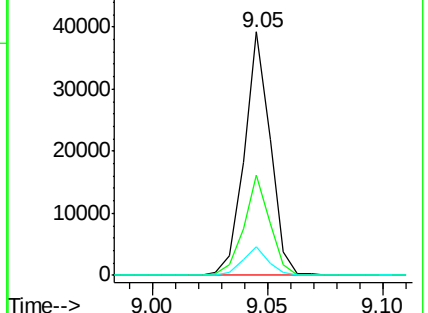
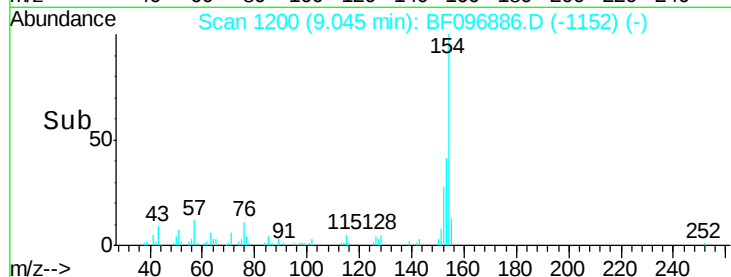
76 11.9 0.0 29.9



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BF0



#48

Acenaphthylene

Concen: 2.87 ng

RT: 9.48 min Scan# 1274

Delta R.T. -0.01 min

Lab File: BF096886.D

Acq: 19 Jul 2017 22:48

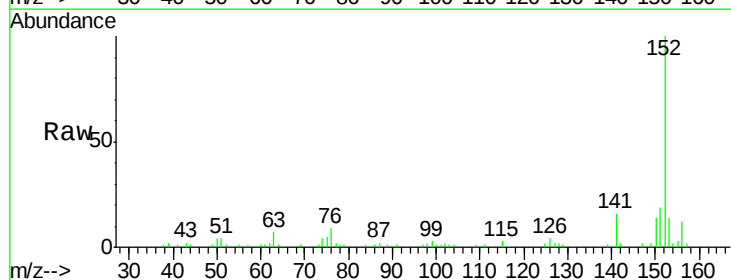
Tgt Ion:152 Resp: 47166

Ion Ratio Lower Upper

152 100

151 19.0 16.8 25.2

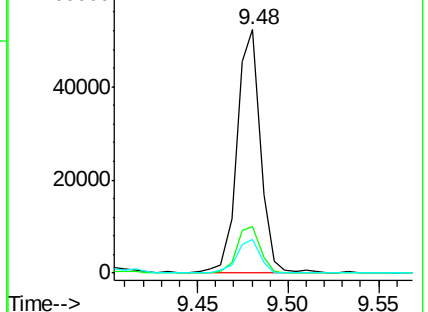
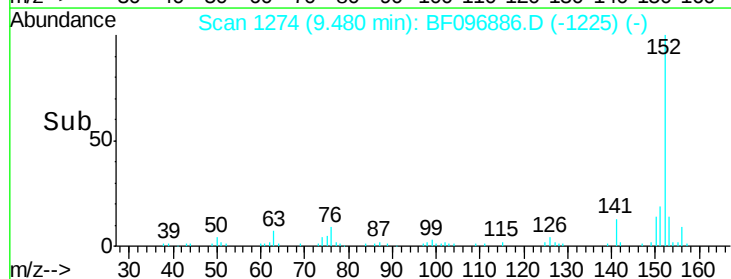
153 14.1 10.8 16.2

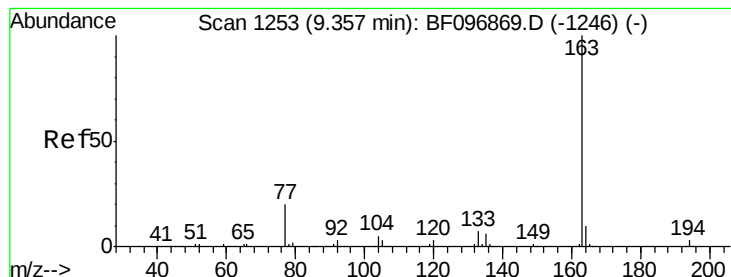


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#49

Dimethylphthalate

Concen: 8.74 ng

RT: 9.35 min Scan# 1251

Delta R.T. -0.02 min

Lab File: BF096886.D

Acq: 19 Jul 2017 22:48

Instrument :

BNA_F

ClientSampleId :

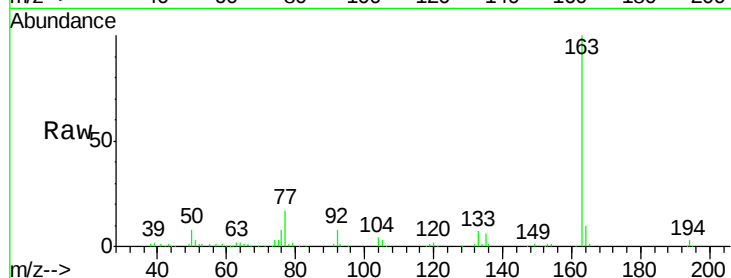
Tot Ion:163 Resp: 107639

Ion Ratio Lower Upper

163 100

194 2.8 2.6 4.0

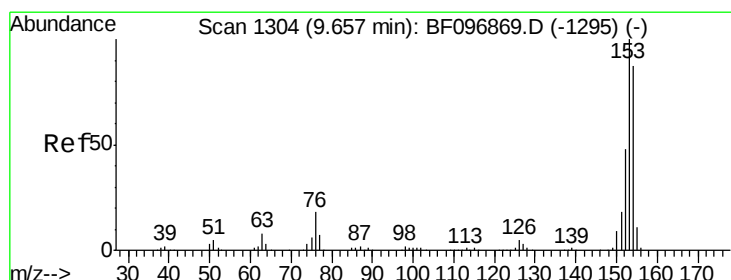
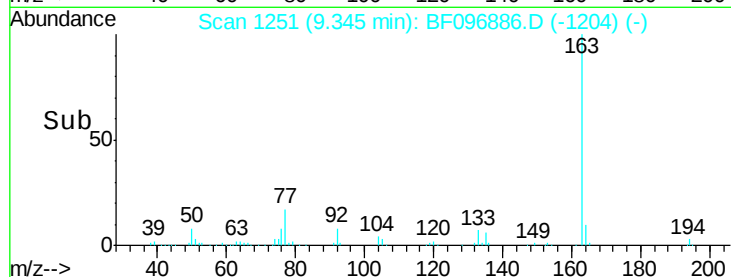
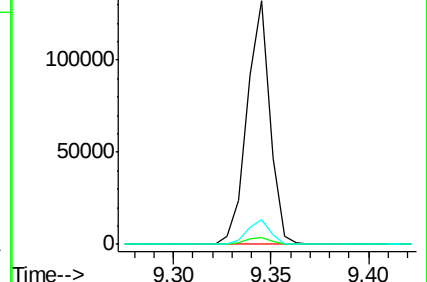
164 10.1 8.4 12.6



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#51

Acenaphthene

Concen: 21.39 ng

RT: 9.65 min Scan# 1303

Delta R.T. -0.02 min

Lab File: BF096886.D

Acq: 19 Jul 2017 22:48

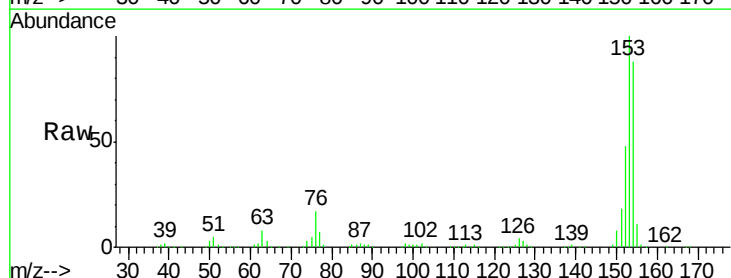
Tgt Ion:154 Resp: 208014

Ion Ratio Lower Upper

154 100

153 114.2 90.5 135.7

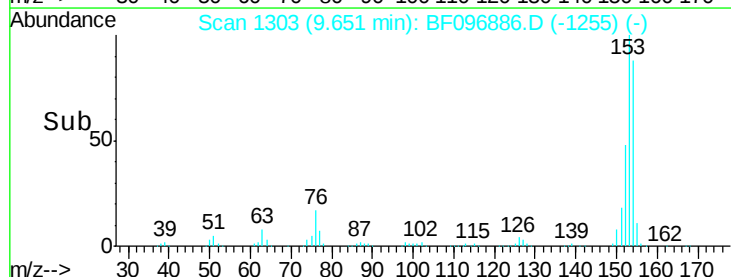
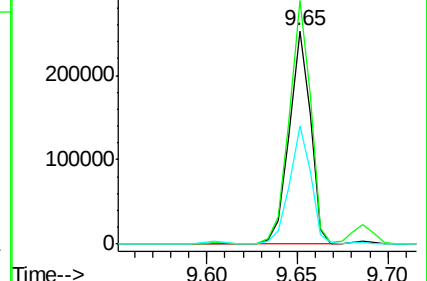
152 55.2 43.6 65.4

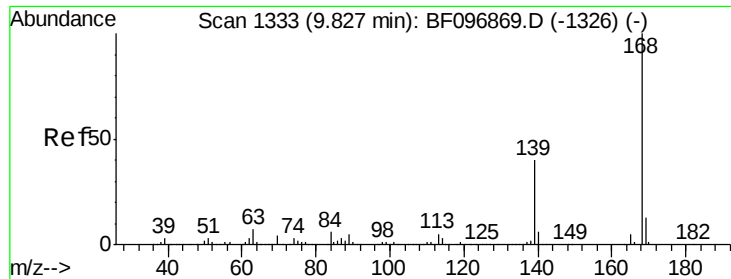


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

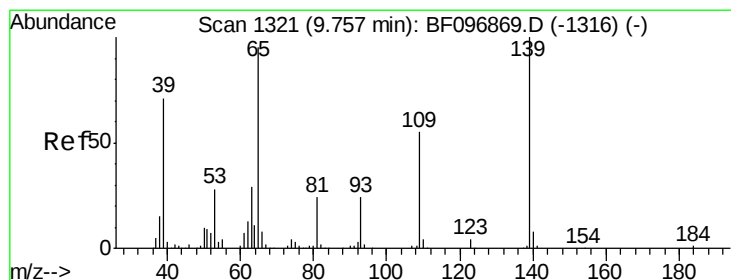
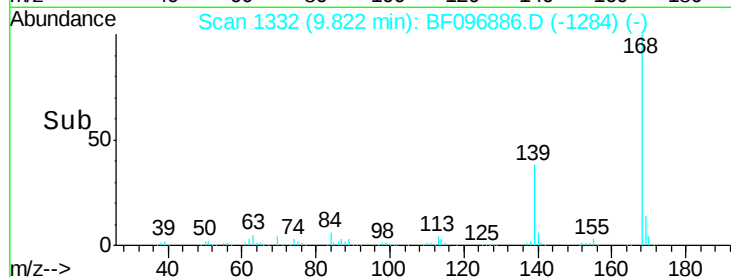
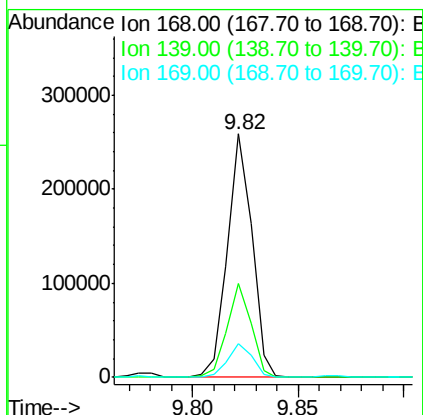
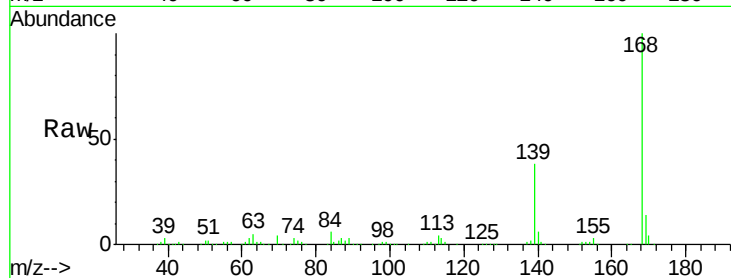




#54
Dibenzenofuran
Concen: 15.27 ng
RT: 9.82 min Scan# 1332
Delta R.T. -0.02 min
Lab File: BF096886.D
Acq: 19 Jul 2017 22:48

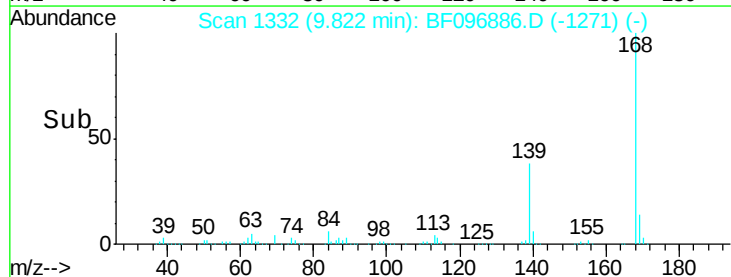
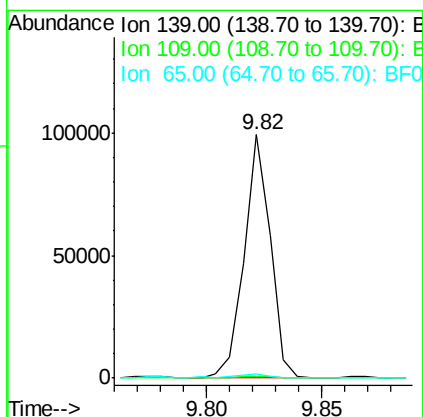
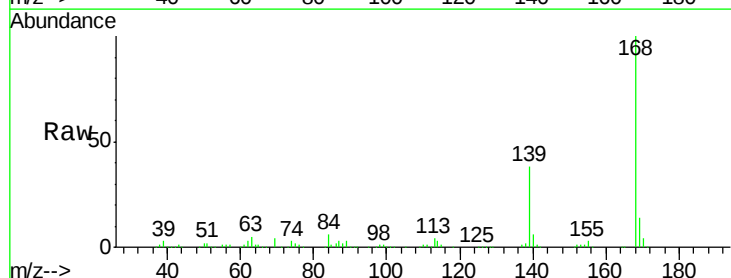
Instrument :
BNA_F
ClientSampleId :

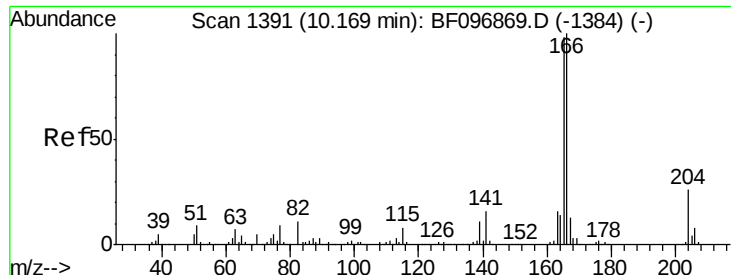
Tot Ion	Ratio	Lower	Upper
168	100		
139	38.4	30.6	45.8
169	14.1	10.8	16.2



#55
4-Nitrophenol
Concen: 34.16 ng
RT: 9.82 min Scan# 1332
Delta R.T. 0.06 min
Lab File: BF096886.D
Acq: 19 Jul 2017 22:48

Tgt Ion	Ratio	Lower	Upper
139	100		
109	0.7	34.1	74.1#
65	1.9	31.4	71.4#

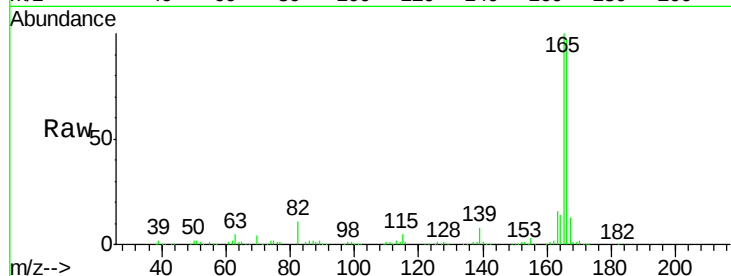




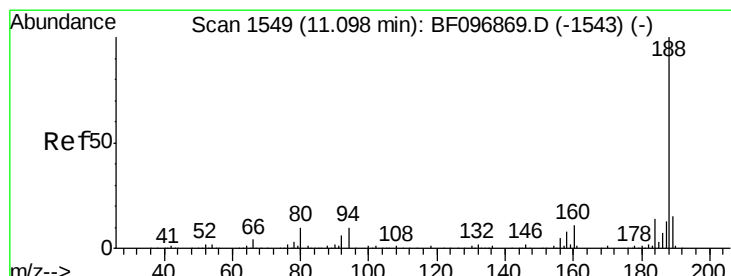
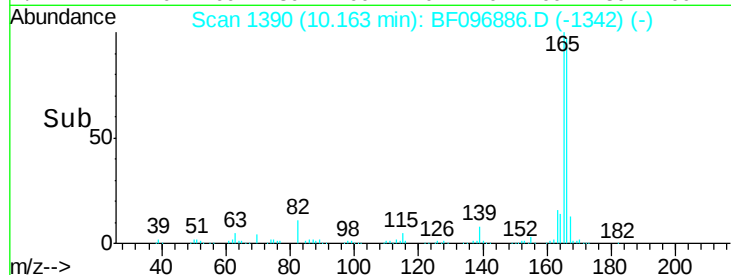
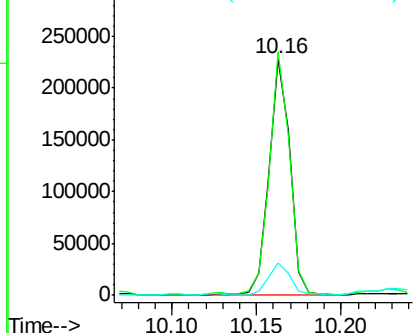
#57
 Fluorene
 Concen: 19.34 ng
 RT: 10.16 min Scan# 1390
 Delta R.T. -0.02 min
 Lab File: BF096886.D
 Acq: 19 Jul 2017 22:48

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:166 Resp: 194734
 Ion Ratio Lower Upper
 166 100
 165 103.0 78.8 118.2
 167 13.8 10.6 16.0

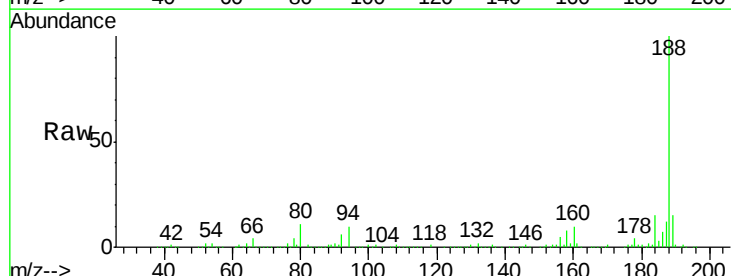


Abundance Ion 166.00 (165.70 to 166.70): E
 Ion 165.00 (164.70 to 165.70): E
 Ion 167.00 (166.70 to 167.70): E

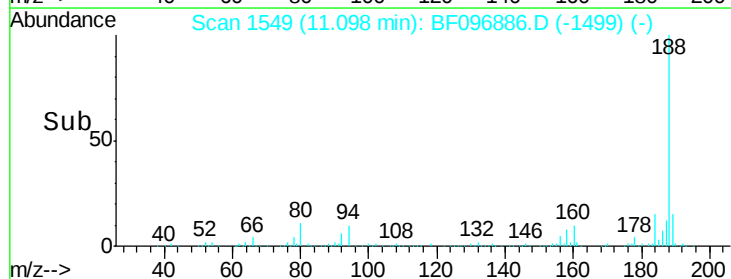
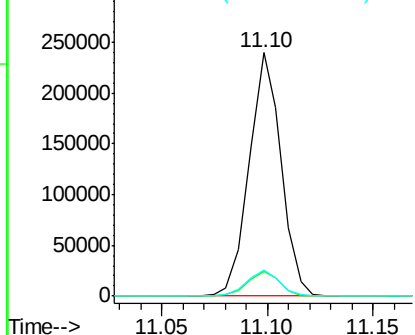


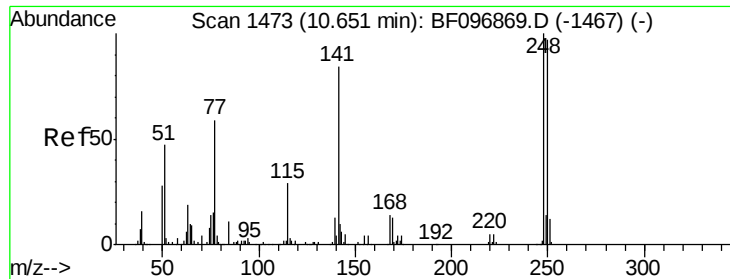
#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.10 min Scan# 1549
 Delta R.T. -0.01 min
 Lab File: BF096886.D
 Acq: 19 Jul 2017 22:48

Tgt Ion:188 Resp: 251241
 Ion Ratio Lower Upper
 188 100
 94 10.0 9.4 14.2
 80 10.6 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

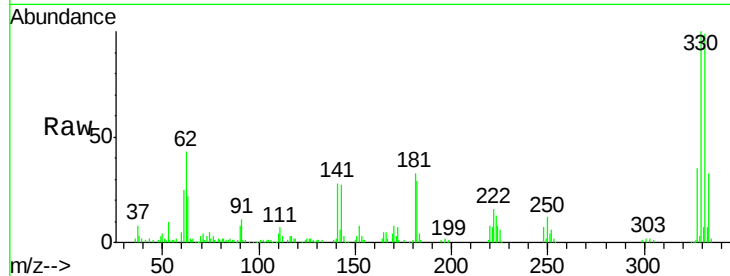




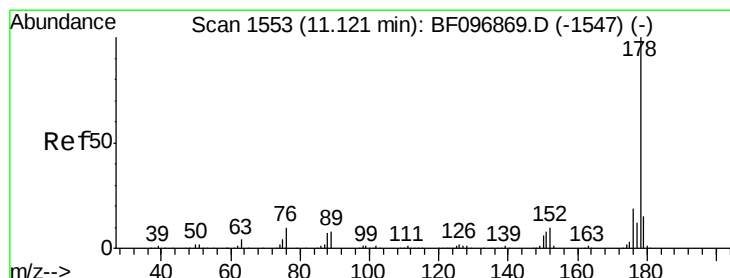
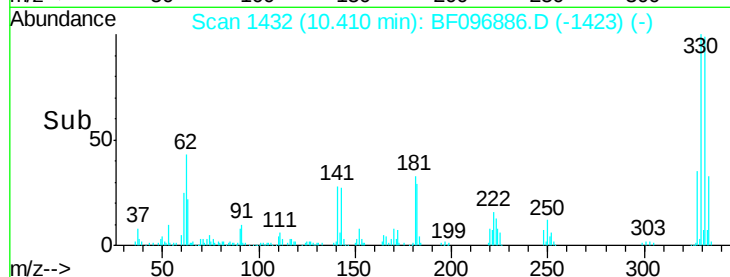
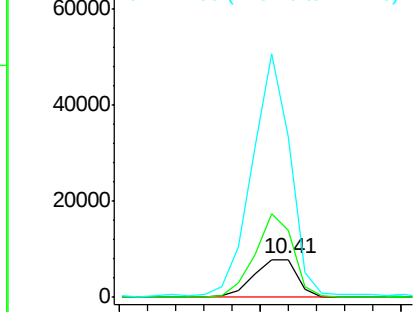
#66
 4-Bromophenyl-phenylether
 Concen: 3.33 ng
 RT: 10.41 min Scan# 1432
 Delta R.T. -0.25 min
 Lab File: BF096886.D
 Acq: 19 Jul 2017 22:48

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:248 Resp: 8537
 Ion Ratio Lower Upper
 248 100
 250 175.9 76.8 115.2#
 141 423.2 68.6 103.0#

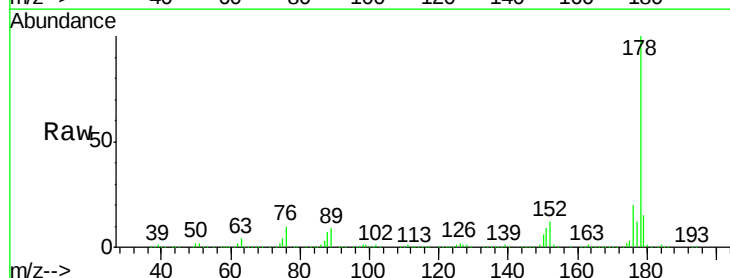


Abundance Ion 248.00 (247.70 to 248.70): E
 Ion 250.00 (249.70 to 250.70): E
 Ion 141.00 (140.70 to 141.70): E

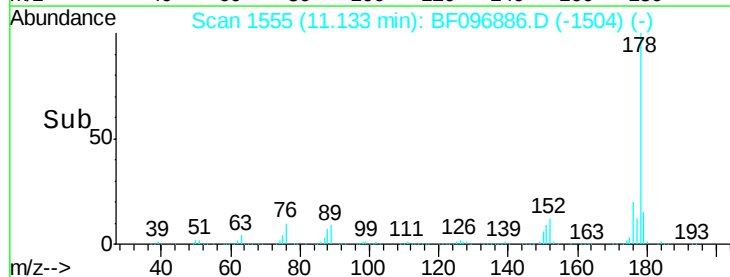
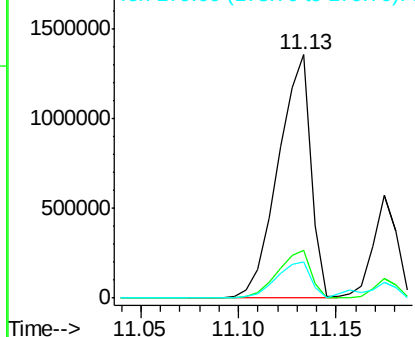


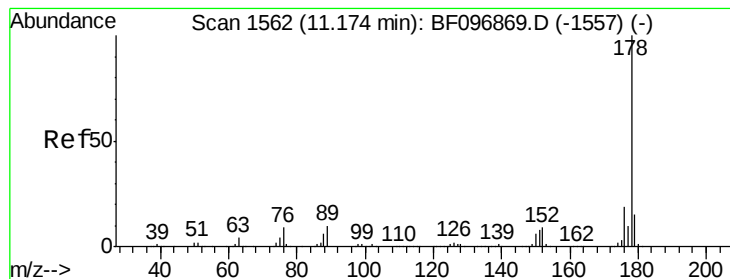
#70
 Phenanthrene
 Concen: 114.99 ng
 RT: 11.13 min Scan# 1555
 Delta R.T. 0.00 min
 Lab File: BF096886.D
 Acq: 19 Jul 2017 22:48

Tgt Ion:178 Resp: 1570873
 Ion Ratio Lower Upper
 178 100
 176 19.9 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: 34.40 ng

RT: 11.17 min Scan# 1562

Delta R.T. -0.01 min

Lab File: BF096886.D

Acq: 19 Jul 2017 22:48

Instrument :

BNA_F

ClientSampleId :

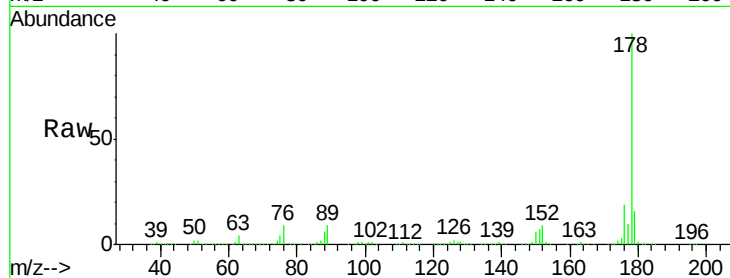
Tot Ion:178 Resp: 475096

Ion Ratio Lower Upper

178 100

176 19.0 15.8 23.8

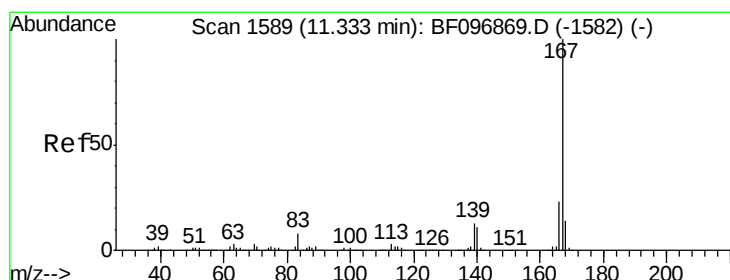
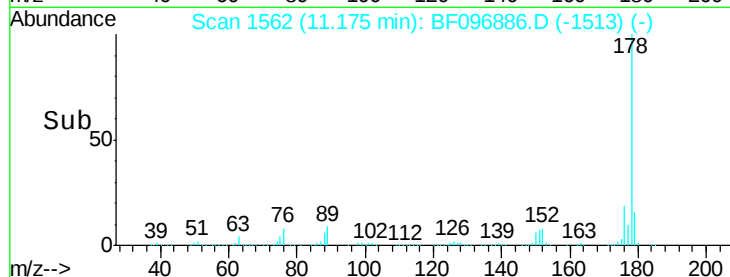
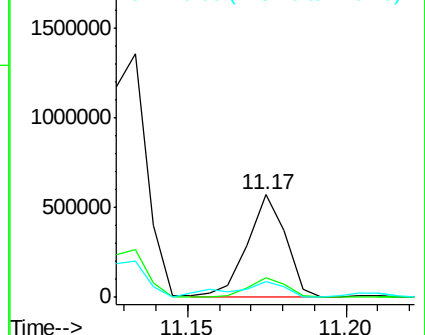
179 16.0 12.7 19.1



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



#72

Carbazole

Concen: 24.01 ng

RT: 11.33 min Scan# 1588

Delta R.T. -0.01 min

Lab File: BF096886.D

Acq: 19 Jul 2017 22:48

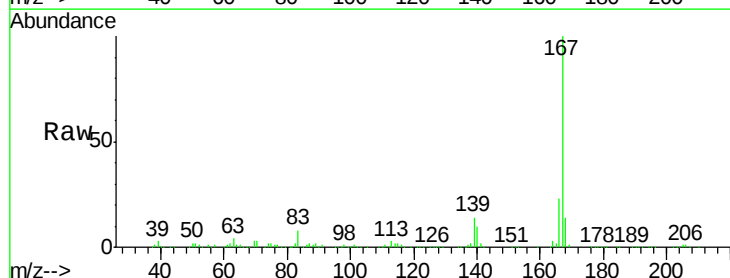
Tgt Ion:167 Resp: 321149

Ion Ratio Lower Upper

167 100

166 22.8 18.1 27.1

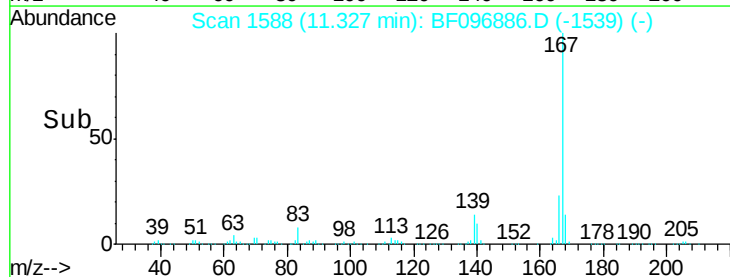
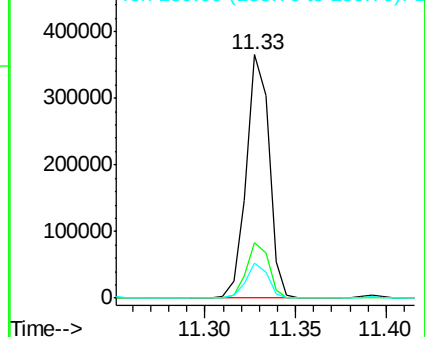
139 14.4 11.7 17.5

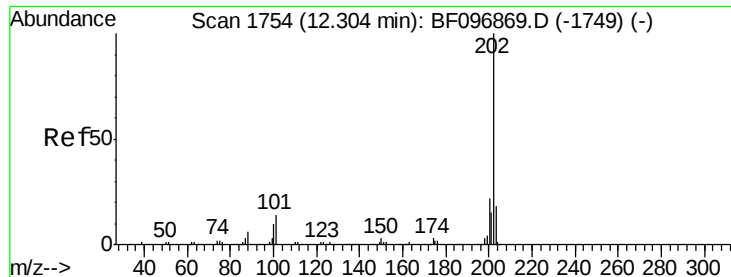


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 127.62 ng

RT: 12.32 min Scan# 1757

Delta R.T. 0.01 min

Lab File: BF096886.D

Acq: 19 Jul 2017 22:48

Instrument :

BNA_F

ClientSampleId :

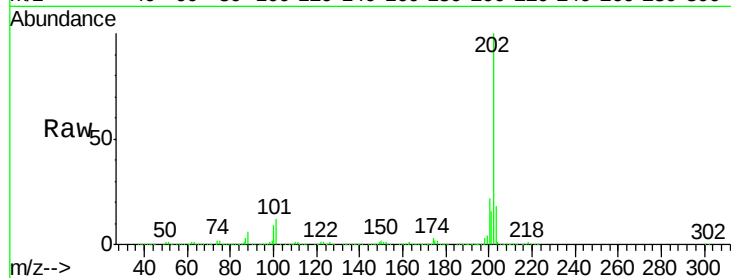
Tot Ion:202 Resp: 1668786

Ion Ratio Lower Upper

202 100

101 12.4 0.0 33.2

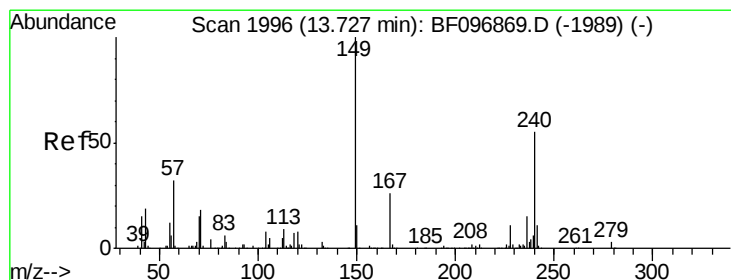
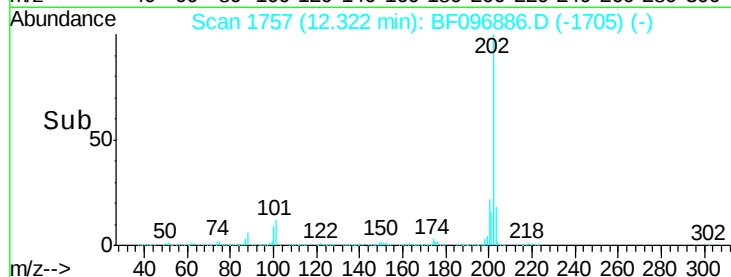
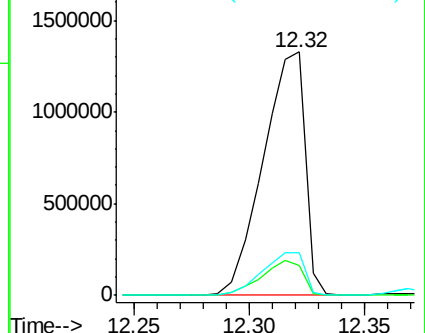
203 17.7 0.0 38.1



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: 13.73 min Scan# 1997

Delta R.T. 0.00 min

Lab File: BF096886.D

Acq: 19 Jul 2017 22:48

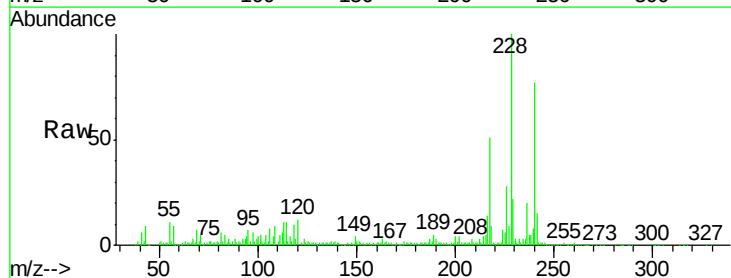
Tgt Ion:240 Resp: 177120

Ion Ratio Lower Upper

240 100

120 15.6 5.8 8.8#

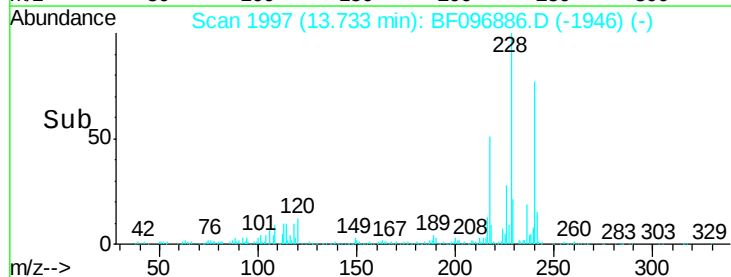
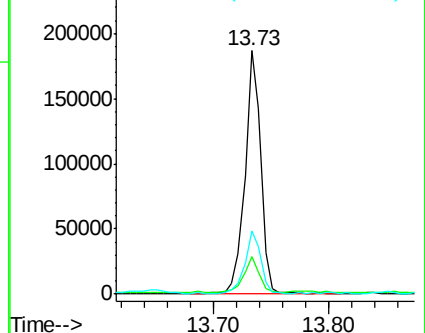
236 25.7 20.5 30.7

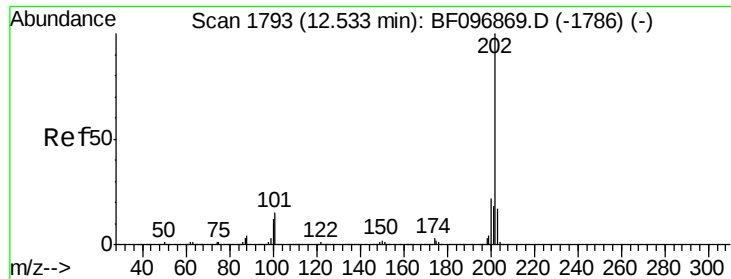


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 82.45 ng

RT: 12.55 min Scan# 1795

Delta R.T. 0.01 min

Lab File: BF096886.D

Acq: 19 Jul 2017 22:48

Instrument :

BNA_F

ClientSampled :

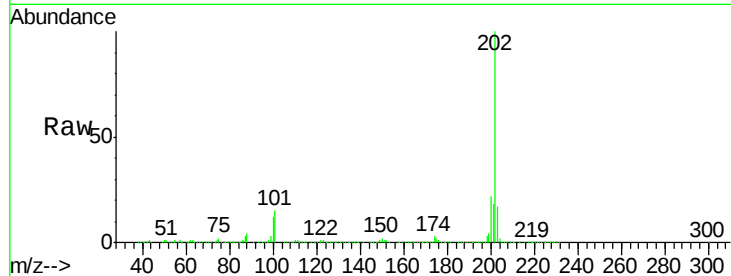
Tot Ion:202 Resp: 1325386

Ion Ratio Lower Upper

202 100

200 22.0 17.6 26.4

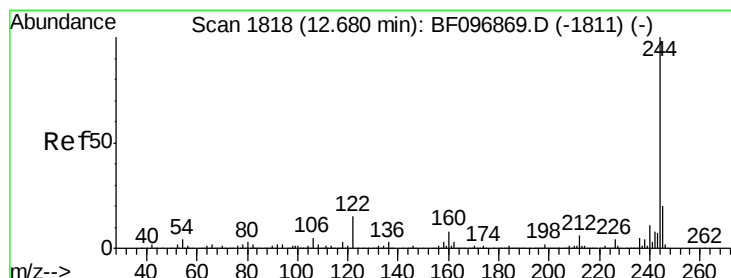
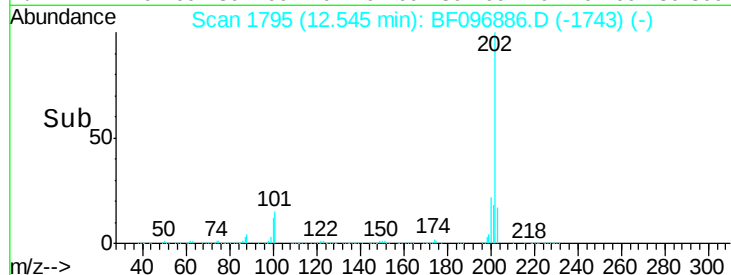
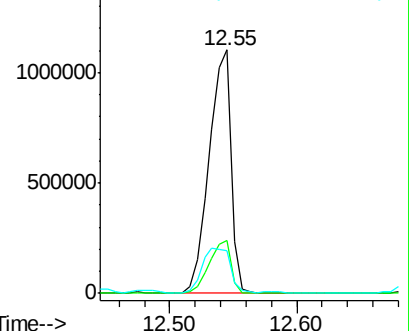
203 17.3 14.4 21.6



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: 38.49 ng

RT: 12.69 min Scan# 1819

Delta R.T. -0.01 min

Lab File: BF096886.D

Acq: 19 Jul 2017 22:48

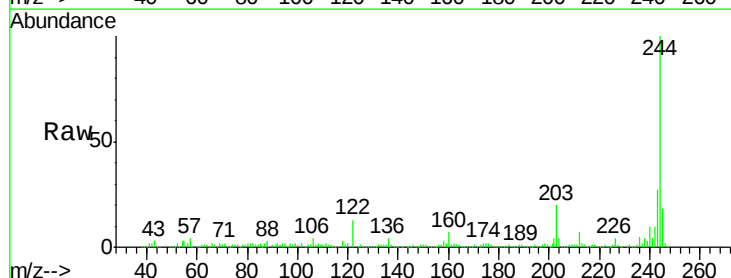
Tgt Ion:244 Resp: 393082

Ion Ratio Lower Upper

244 100

212 6.5 6.0 9.0

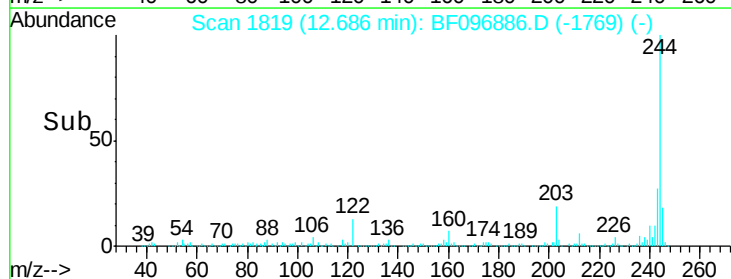
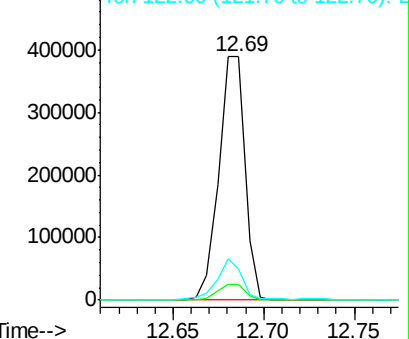
122 12.8 10.3 15.5

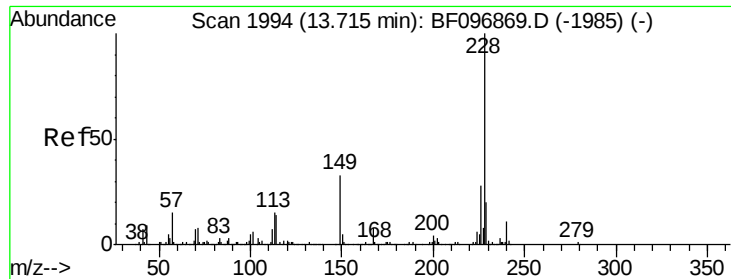


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

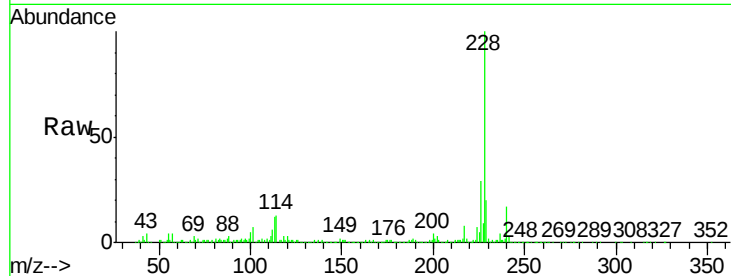




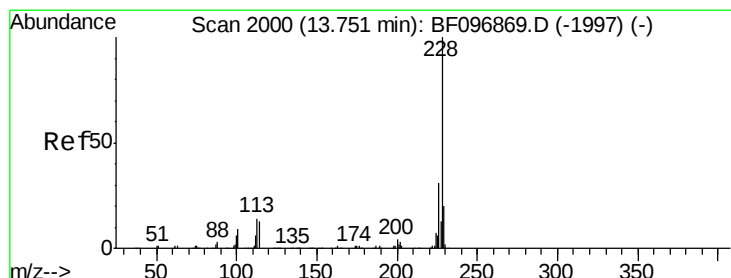
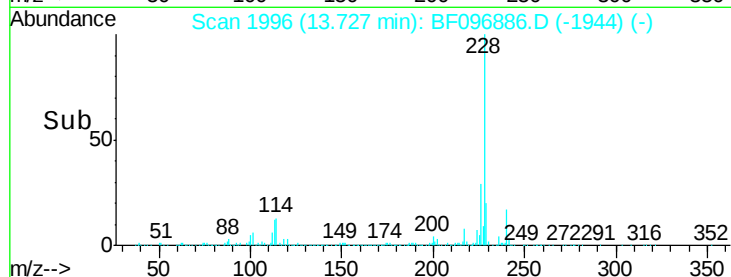
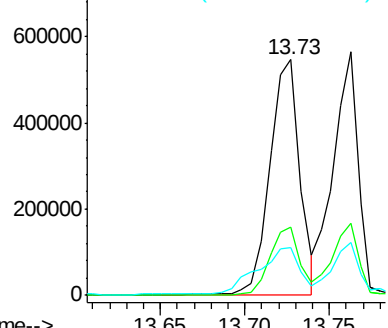
#80
Benzo(a)anthracene
Concen: 60.84 ng
RT: 13.73 min Scan# 1996
Delta R.T. 0.01 min
Lab File: BF096886.D
Acq: 19 Jul 2017 22:48

Instrument :
BNA_F
ClientSampleId :

Tot Ion:228 Resp: 671475
Ion Ratio Lower Upper
228 100
226 29.0 22.6 33.8
229 20.3 16.3 24.5

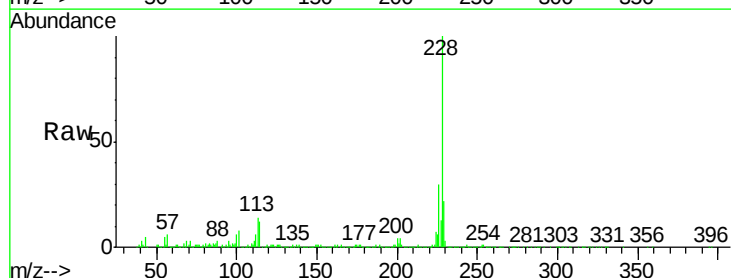


Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

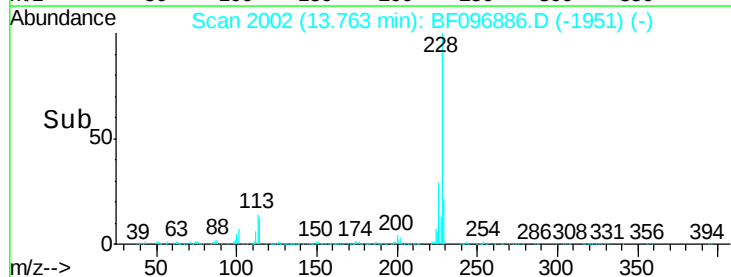
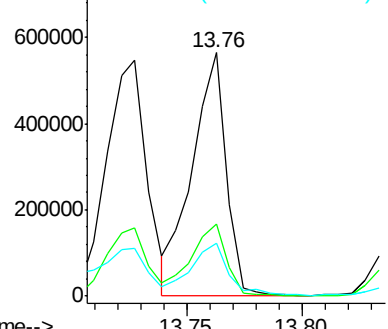


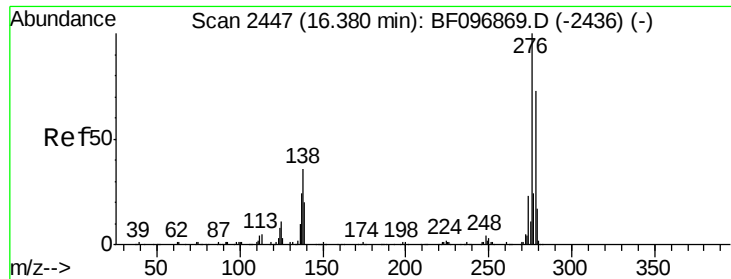
#82
Chrysene
Concen: 53.20 ng
RT: 13.76 min Scan# 2002
Delta R.T. 0.00 min
Lab File: BF096886.D
Acq: 19 Jul 2017 22:48

Tgt Ion:228 Resp: 577979
Ion Ratio Lower Upper
228 100
226 29.7 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

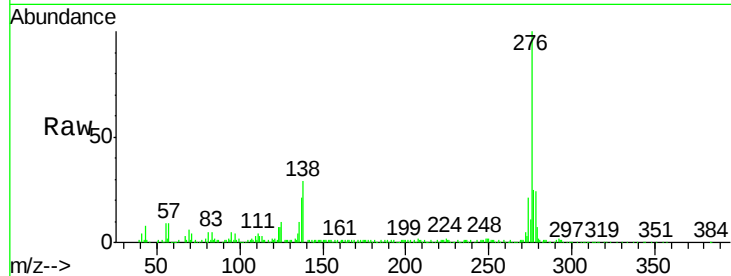




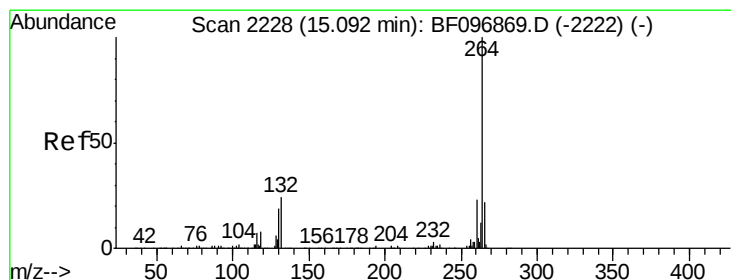
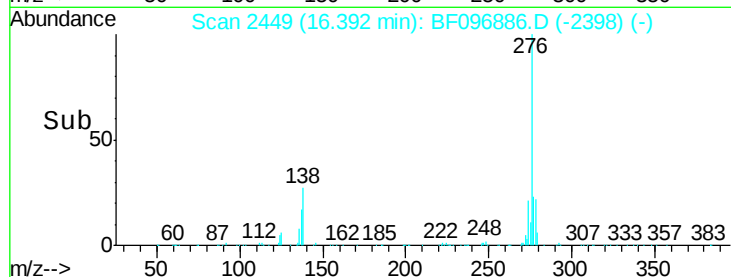
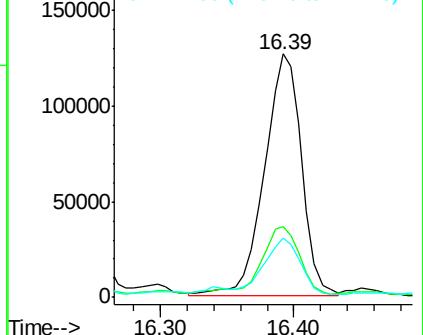
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 26.07 ng
 RT: 16.39 min Scan# 2449
 Delta R.T. 0.00 min
 Lab File: BF096886.D
 Acq: 19 Jul 2017 22:48

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:276 Resp: 245805
 Ion Ratio Lower Upper
 276 100
 138 30.3 27.8 41.6
 277 23.0 20.2 30.4

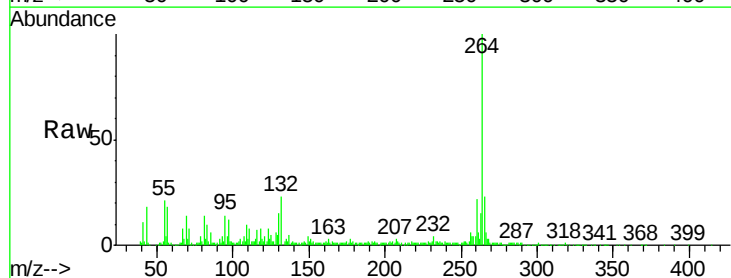


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

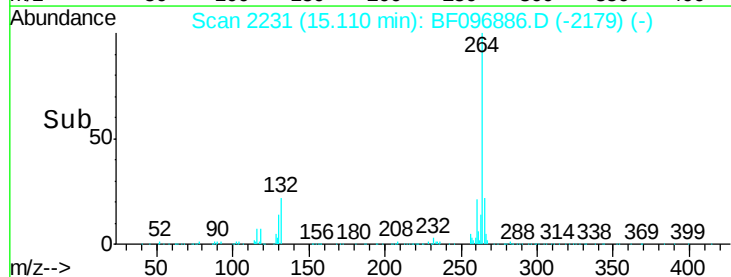
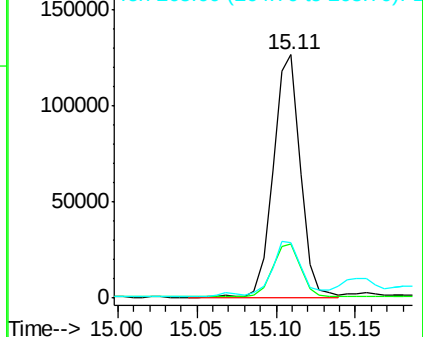


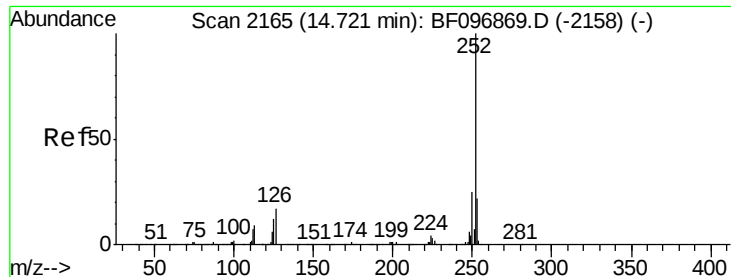
#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.11 min Scan# 2231
 Delta R.T. 0.01 min
 Lab File: BF096886.D
 Acq: 19 Jul 2017 22:48

Tgt Ion:264 Resp: 149532
 Ion Ratio Lower Upper
 264 100
 260 22.2 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: 93.11 ng

RT: 14.73 min Scan# 2167

Delta R.T. 0.01 min

Lab File: BF096886.D

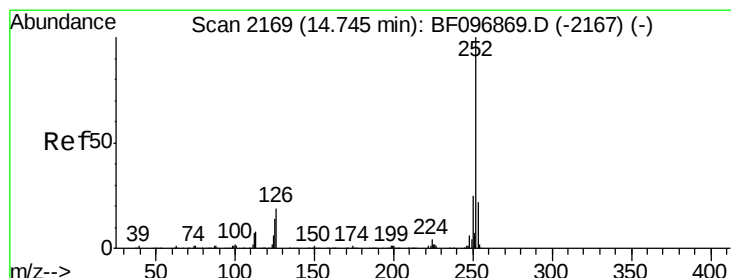
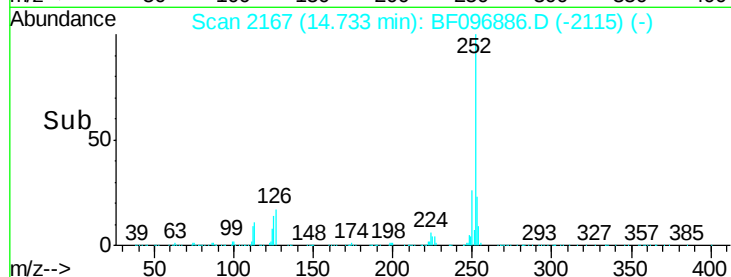
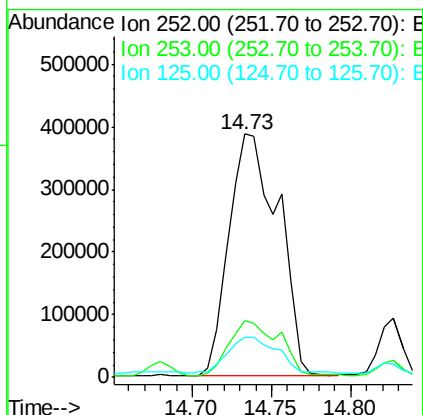
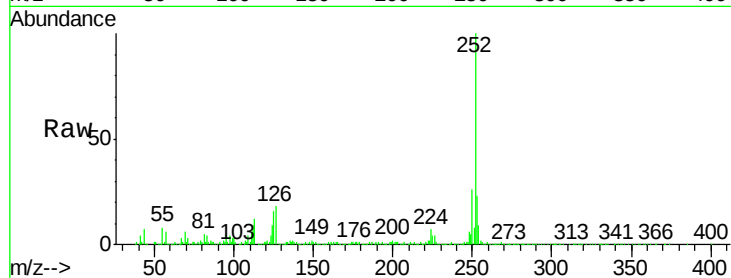
Acq: 19 Jul 2017 22:48

Instrument :

BNA_F

ClientSampleId :

Tot Ion:252	Resp:	839702
Ion Ratio	Lower	Upper
252	100	
253	23.2	18.1 27.1
125	16.4	9.8 14.8#



#88

Benzo(k)fluoranthene

Concen: 98.33 ng

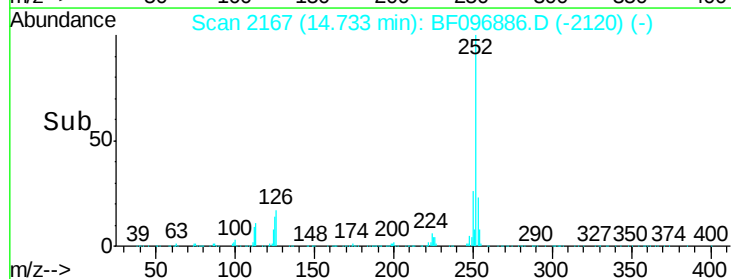
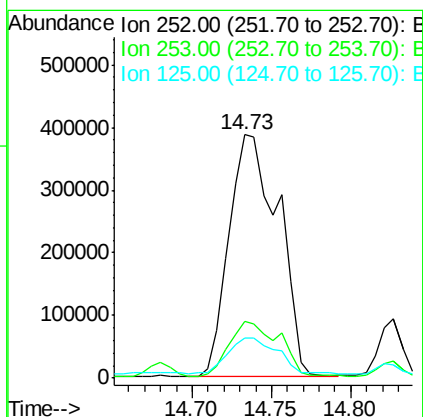
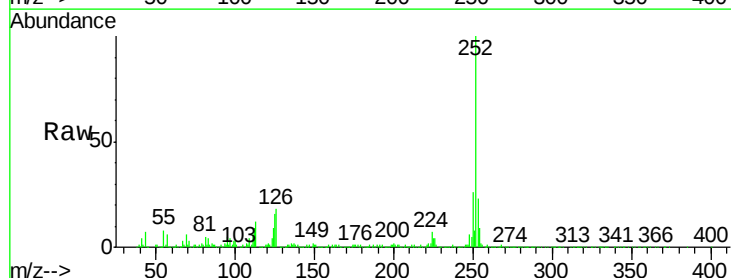
RT: 14.73 min Scan# 2167

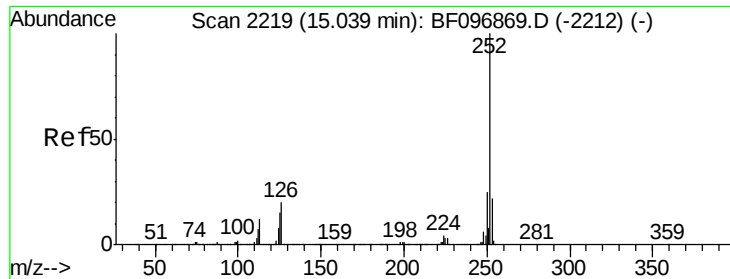
Delta R.T. -0.02 min

Lab File: BF096886.D

Acq: 19 Jul 2017 22:48

Tgt Ion:252	Resp:	839702
Ion Ratio	Lower	Upper
252	100	
253	23.2	18.4 27.6
125	16.4	13.1 19.7

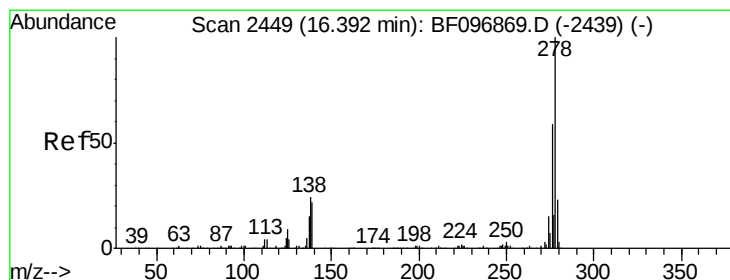
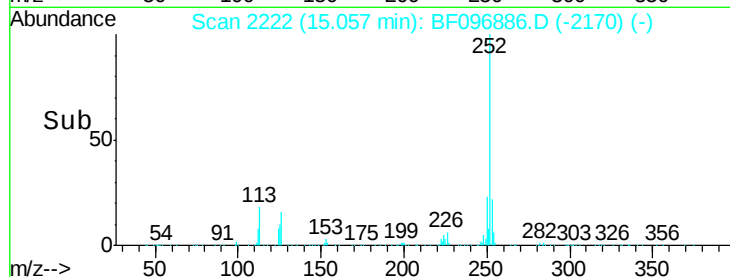
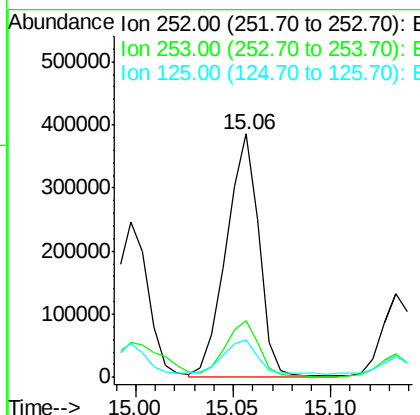
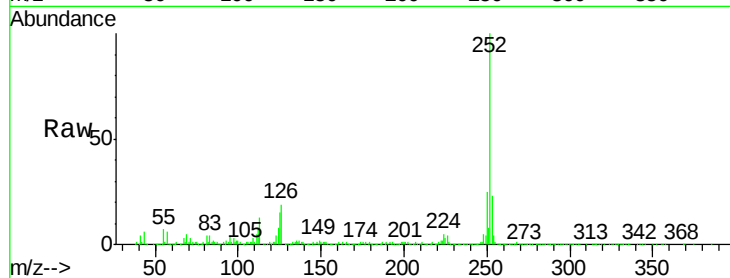




#89
Benzo(a)pyrene
Concen: 53.58 ng
RT: 15.06 min Scan# 2222
Delta R.T. 0.01 min
Lab File: BF096886.D
Acq: 19 Jul 2017 22:48

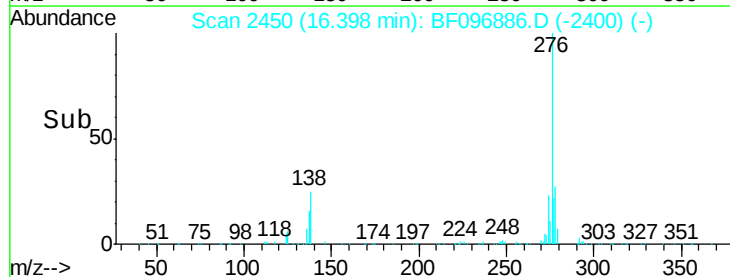
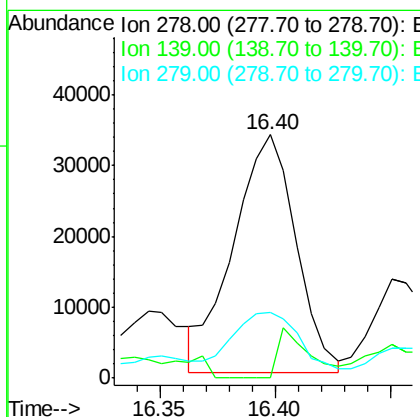
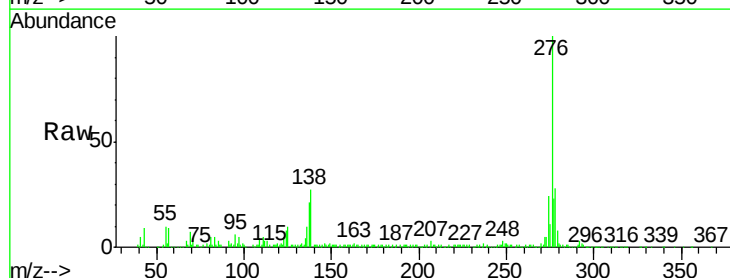
Instrument :
BNA_F
ClientSampleId :

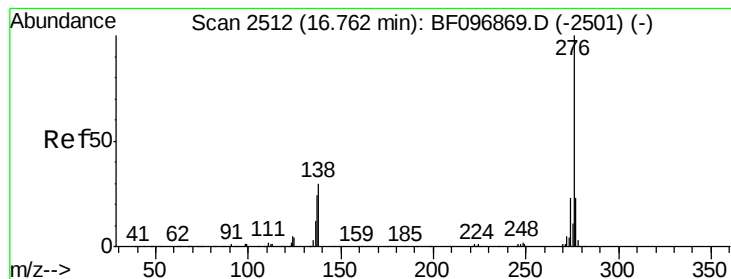
Tot Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.5	26.3
125	15.3	11.0	16.4



#90
Dibenzo(a,h)anthracene
Concen: 8.36 ng
RT: 16.40 min Scan# 2450
Delta R.T. -0.01 min
Lab File: BF096886.D
Acq: 19 Jul 2017 22:48

Tgt Ion	Ratio	Lower	Upper
278	100		
139	0.0	16.6	24.8#
279	27.1	19.3	28.9





#91

Benzo(a,h,i)perylene

Concen: 26.82 ng

RT: 16.78 min Scan# 2515

Delta R.T. 0.00 min

Lab File: BF096886.D

Acq: 19 Jul 2017 22:48

Instrument :

BNA_F

ClientSampleId :

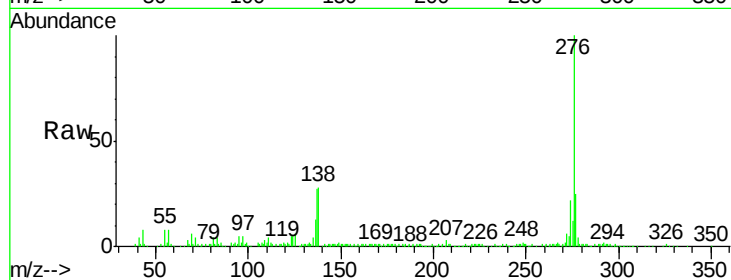
Tot Ion: 276 Resp: 218568

Ion Ratio Lower Upper

276 100

277 24.5 18.6 28.0

138 27.8 25.4 38.0



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

