

Data Path : Z:\HPCHEM1\BNA F\DATA\BF040318\
 Data File : BF104216.D
 Acq On : 4 Apr 2018 9:20
 Operator : JU/SJ
 Sample : J2176-06DL 5X
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Apr 04 10:47:24 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032818.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Apr 03 15:22:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.96	152	104345	20.00	ng	0.00
21) Naphthalene-d8	8.24	136	466635	20.00	ng	0.00
38) Acenaphthene-d10	10.00	164	224737	20.00	ng	0.00
63) Phenanthrene-d10	11.49	188	398165	20.00	ng	0.00
75) Chrysene-d12	14.15	240	250030	20.00	ng	-0.01
86) Perylene-d12	15.69	264	241646	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.59	112	71765	10.97	ng	0.00
7) Phenol-d6	6.60	99	117173	14.56	ng	0.00
23) Nitrobenzene-d5	7.53	82	79405	10.41	ng	0.00
41) 2,4,6-Tribromophenol	10.79	330	39939	15.96	ng	0.00
44) 2-Fluorobiphenyl	9.31	172	215716	15.14	ng	0.00
78) Terphenyl-d14	13.07	244	199241	18.40	ng	0.00

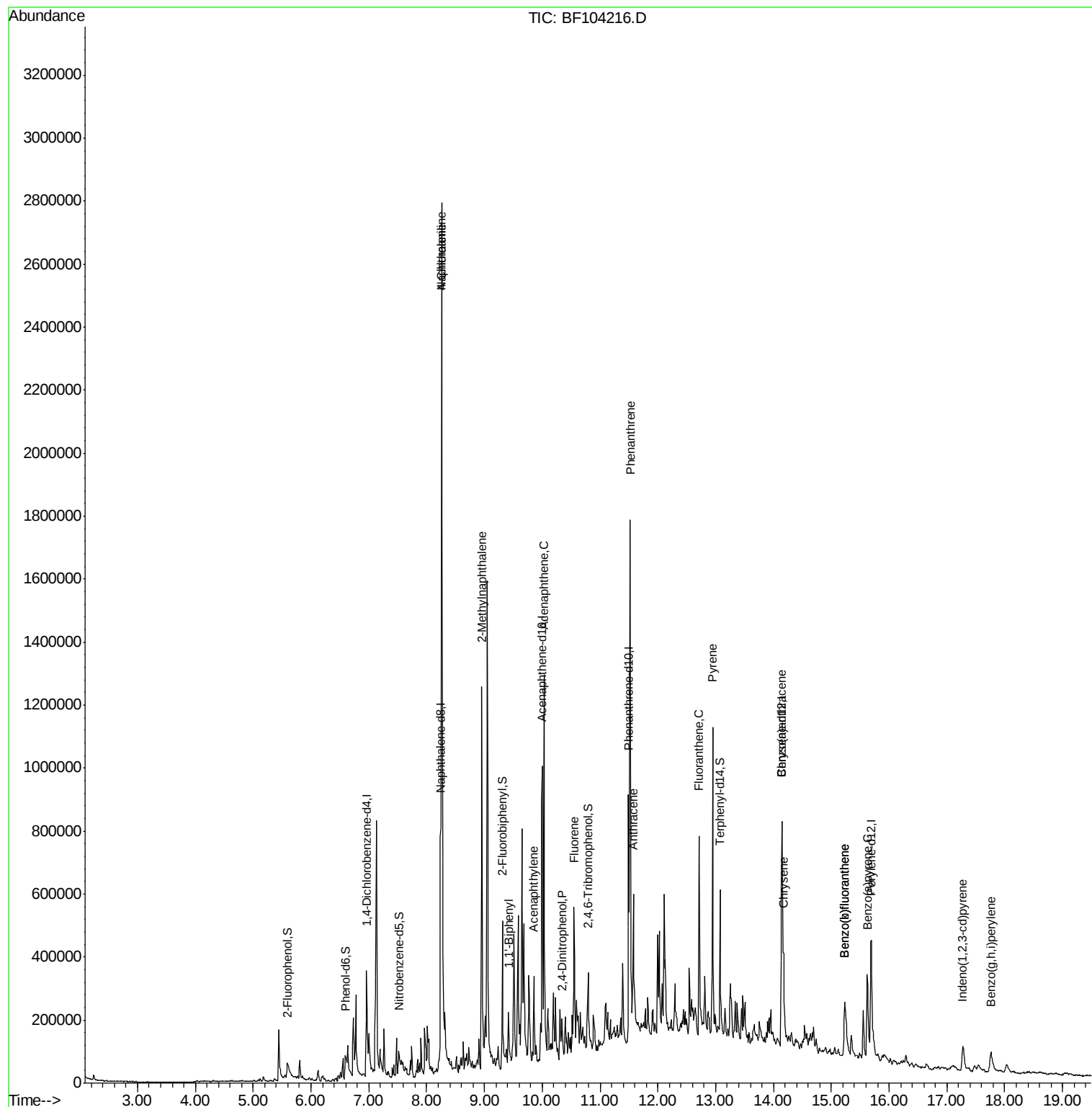
Target Compounds				Qvalue		
9) Benzaldehyde	6.73	77	2300	Below Cal		89
31) Naphthalene	8.26	128	1635701	71.752	ng	99
33) 4-Chloroaniline	8.26	127	211792	22.037	ng	# 33
37) 2-Methylnaphthalene	8.95	142	421621	28.077	ng	100
45) 1,1'-Biphenyl	9.42	154	92537	4.797	ng	98
48) Acenaphthylene	9.86	152	83571	3.626	ng	# 95
51) Acenaphthene	10.03	154	290554	21.790	ng	99
53) 2,4-Dinitrophenol	10.35	184	630	5.924	ng	# 77
57) Fluorene	10.55	166	210127	13.082	ng	97
70) Phenanthrene	11.52	178	788160	36.562	ng	98
71) Anthracene	11.57	178	331504	14.722	ng	97
74) Fluoranthene	12.71	202	317770	13.868	ng	99
77) Pvrene	12.95	202	453681	25.242	ng	98
80) Benzo(a)anthracene	14.14	228	137530	8.791	ng	# 72
82) Chrysene	14.17	228	101266	6.609	ng	95
85) Indeno(1,2,3-cd)pyrene	17.28	276	77549	4.884	ng	# 87
87) Benzo(b)fluoranthene	15.23	252	169778	11.545	ng	# 95
88) Benzo(k)fluoranthene	15.23	252	169778	12.255	ng	97
89) Benzo(a)pvrene	15.62	252	175276	12.861	ng	97
91) Benzo(a,h,i)perylene	17.76	276	81434	6.452	ng	96

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

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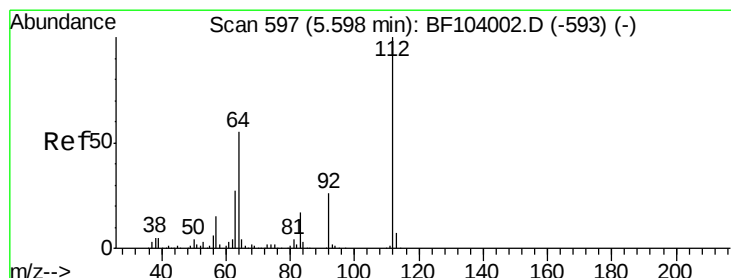
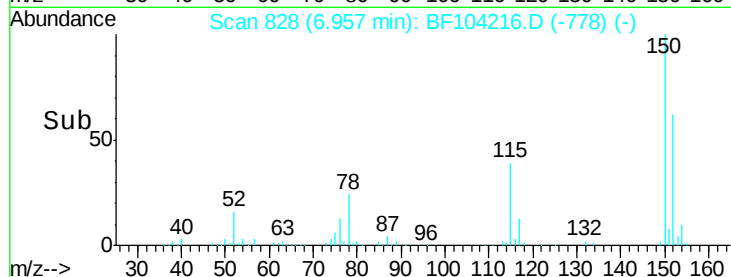
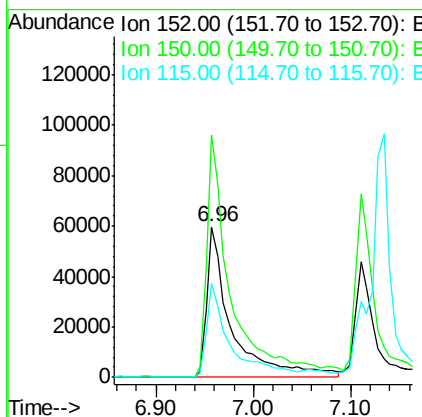
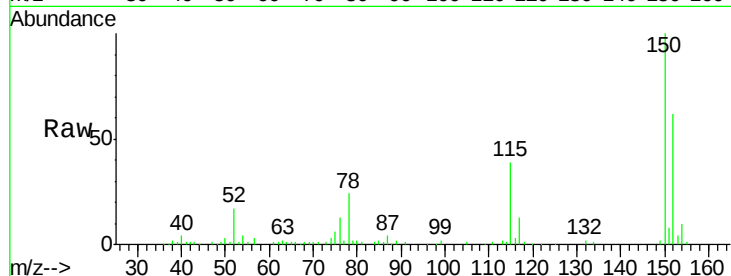




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.96 min Scan# 828
 Delta R.T. -0.01 min
 Lab File: BF104216.D
 Acq: 4 Apr 2018 9:20

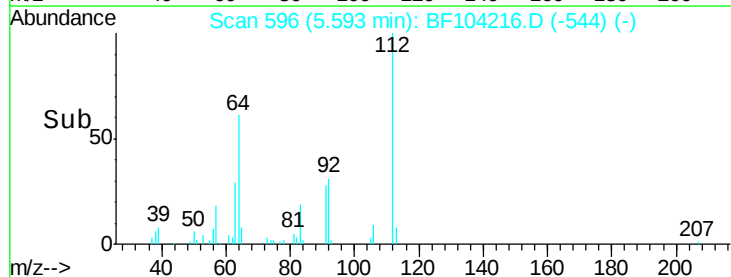
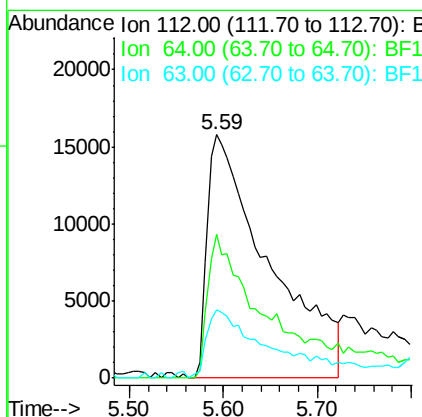
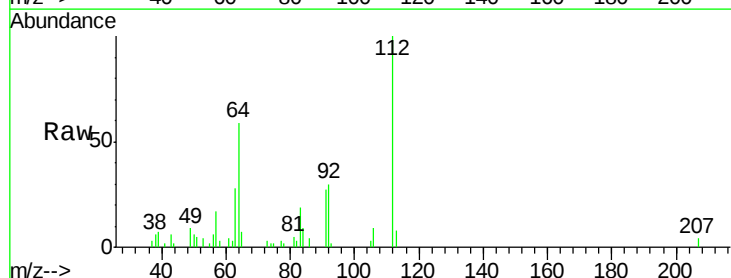
Instrument :
 BNA_F
 ClientSampleId :

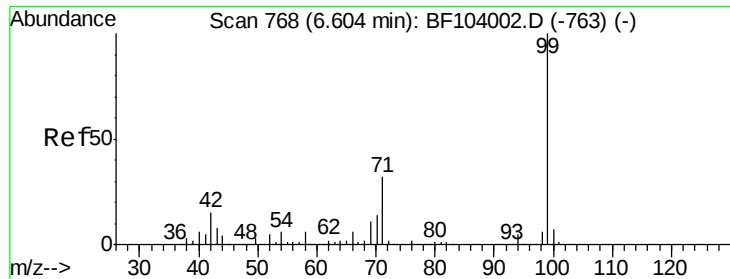
Tot Ion:152 Resp: 104345
 Ion Ratio Lower Upper
 152 100
 150 160.8 124.6 186.8
 115 62.1 50.1 75.1



#5
 2-Fluorophenol
 Concen: 10.968 ng
 RT: 5.59 min Scan# 596
 Delta R.T. 0.01 min
 Lab File: BF104216.D
 Acq: 4 Apr 2018 9:20

Tgt Ion:112 Resp: 71765
 Ion Ratio Lower Upper
 112 100
 64 59.0 47.9 71.9
 63 28.2 23.7 35.5





#7

Phenol-d6

Concen: 14.556 ng

RT: 6.60 min Scan# 767

Delta R.T. 0.00 min

Lab File: BF104216.D

Acq: 4 Apr 2018 9:20

Instrument :

BNA_F

ClientSampleId :

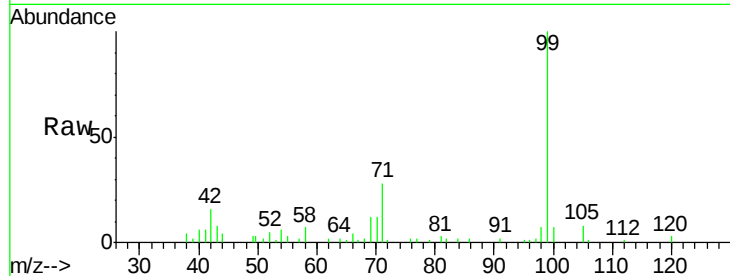
Tot Ion: 99 Resp: 117173

Ion Ratio Lower Upper

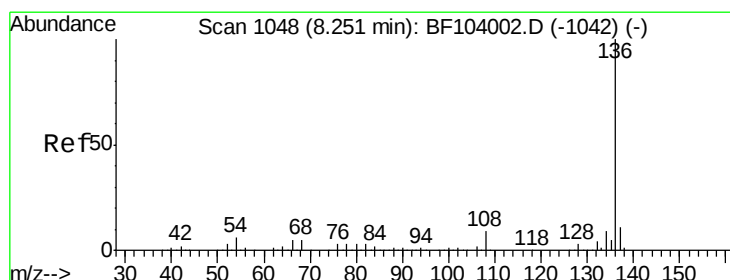
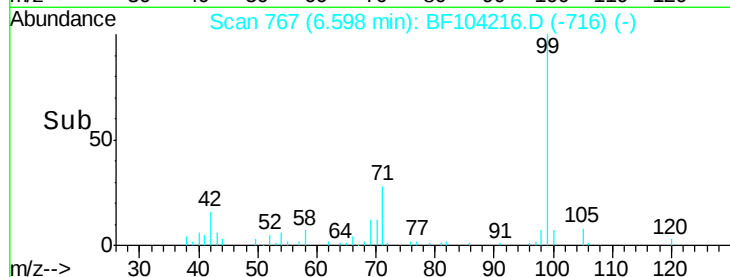
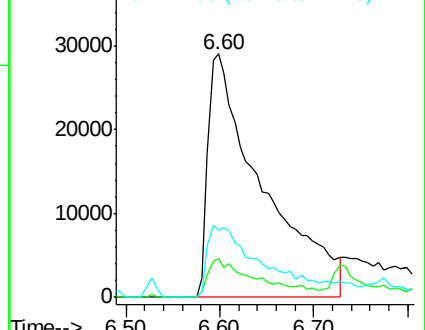
99 100

42 15.7 14.5 21.7

71 27.7 25.4 38.0



Abundance Ion 99.00 (98.70 to 99.70): BF1
Ion 42.00 (41.70 to 42.70): BF1
Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.24 min Scan# 1046

Delta R.T. -0.01 min

Lab File: BF104216.D

Acq: 4 Apr 2018 9:20

Tgt Ion: 136 Resp: 466635

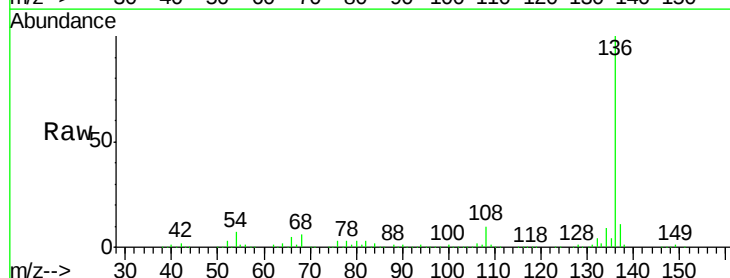
Ion Ratio Lower Upper

136 100

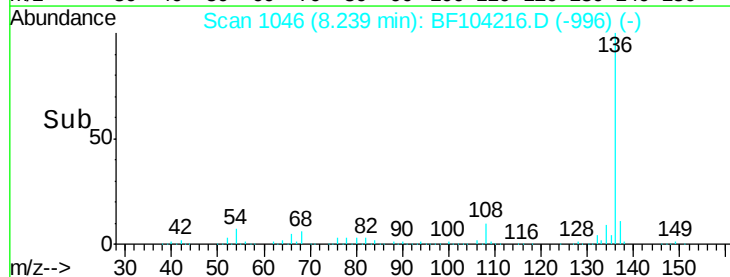
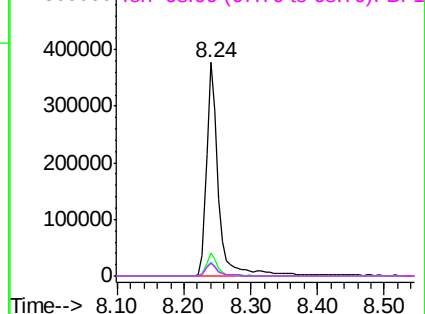
137 10.8 8.9 13.3

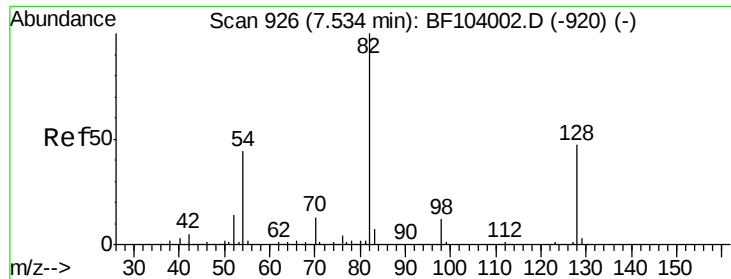
54 6.9 6.6 9.8

68 6.0 5.0 7.4



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): BF1
Ion 68.00 (67.70 to 68.70): BF1

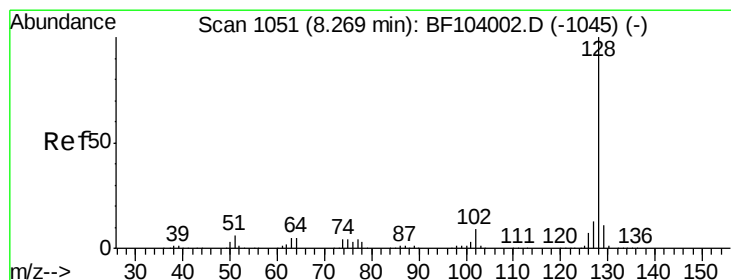
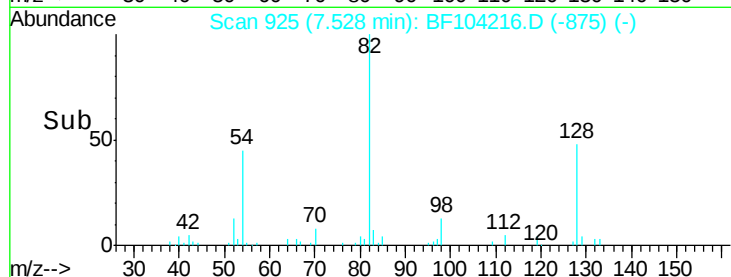
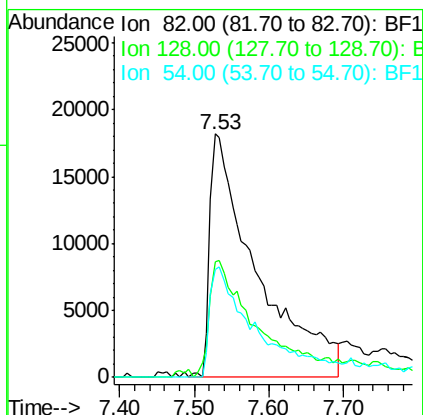
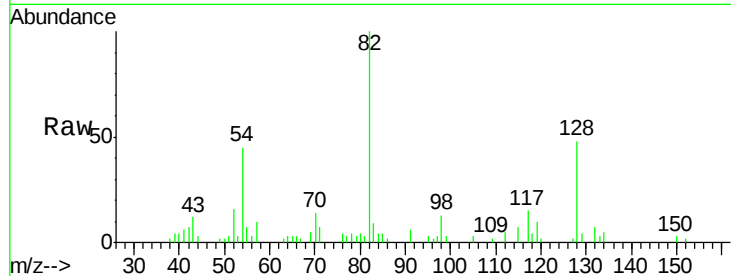




#23
Nitrobenzene-d5
Concen: 10.407 ng
RT: 7.53 min Scan# 925
Delta R.T. -0.01 min
Lab File: BF104216.D
Acq: 4 Apr 2018 9:20

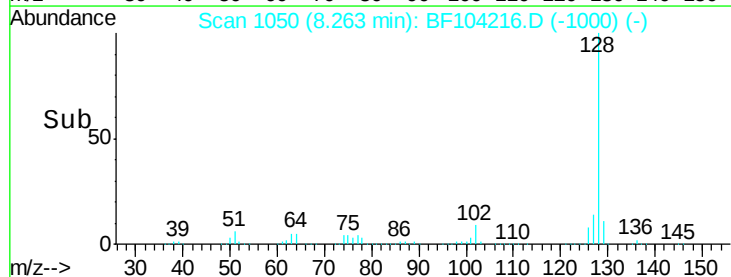
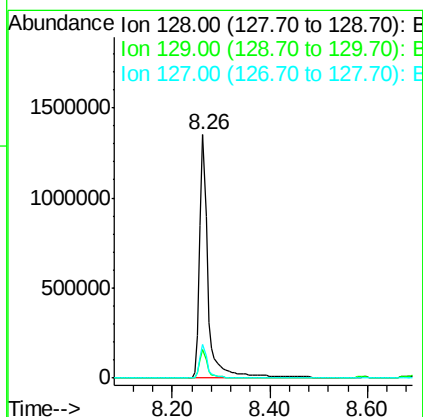
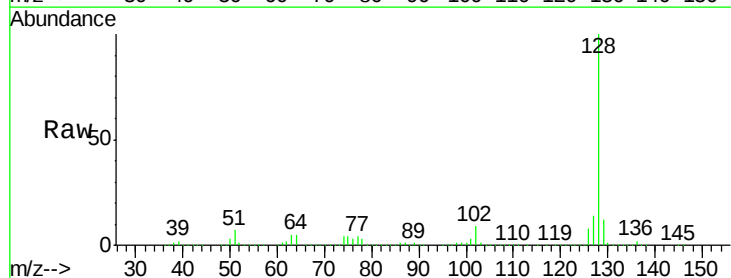
Instrument :
BNA_F
ClientSampleId :

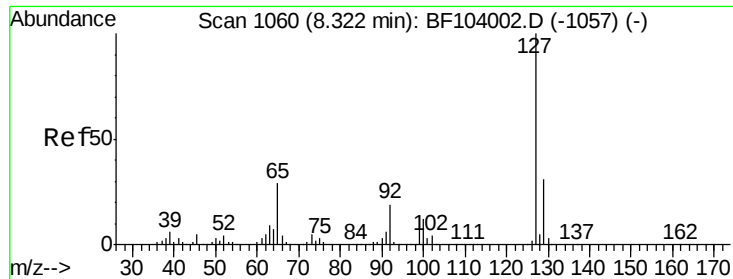
Tot Ion: 82 Resp: 79405
Ion Ratio Lower Upper
82 100
128 47.6 36.1 54.1
54 44.6 41.4 62.2



#31
Naphthalene
Concen: 71.752 ng
RT: 8.26 min Scan# 1050
Delta R.T. -0.01 min
Lab File: BF104216.D
Acq: 4 Apr 2018 9:20

Tgt Ion:128 Resp: 1635701
Ion Ratio Lower Upper
128 100
129 11.6 8.8 13.2
127 13.8 10.9 16.3

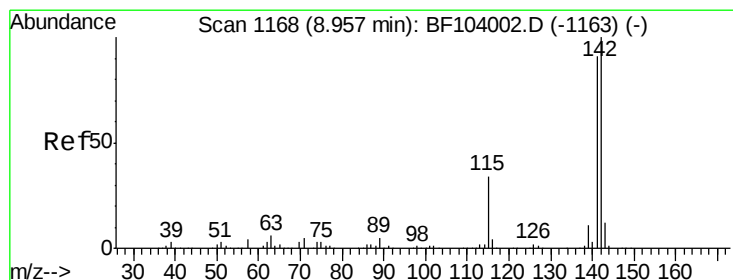
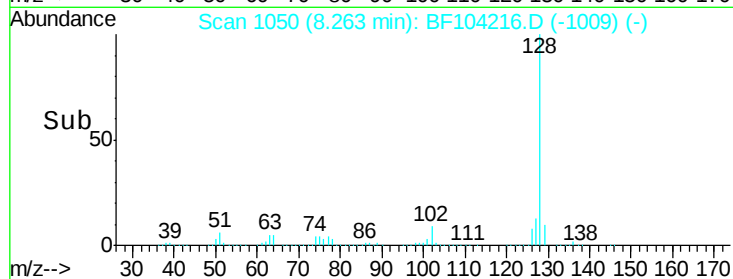
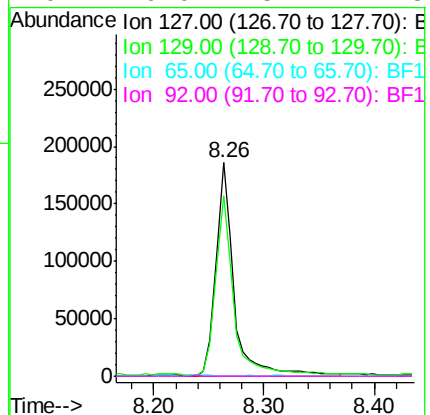
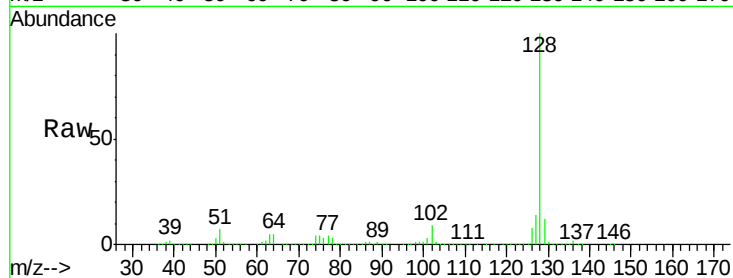




#33
4-Chloroaniline
Concen: 22.037 ng
RT: 8.26 min Scan# 1050
Delta R.T. -0.06 min
Lab File: BF104216.D
Acq: 4 Apr 2018 9:20

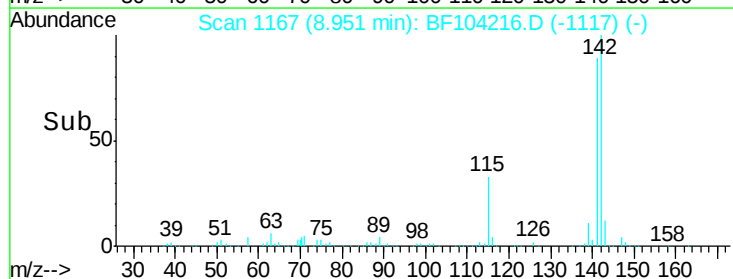
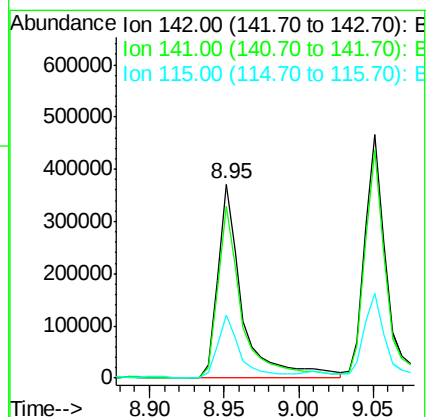
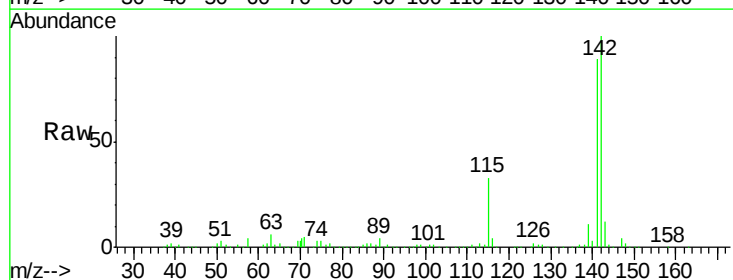
Instrument :
BNA_F
ClientSampleId :

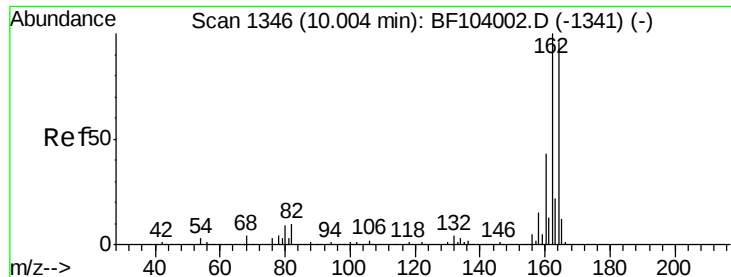
Tot Ion:	127	Resp:	211792
Ion	Ratio	Lower	Upper
127	100		
129	84.4	25.9	38.9#
65	0.0	25.0	37.4#
92	0.0	15.2	22.8#



#37
2-Methylnaphthalene
Concen: 28.077 ng
RT: 8.95 min Scan# 1167
Delta R.T. -0.01 min
Lab File: BF104216.D
Acq: 4 Apr 2018 9:20

Tgt Ion:	142	Resp:	421621
Ion	Ratio	Lower	Upper
142	100		
141	88.9	70.8	106.2
115	32.8	26.1	39.1

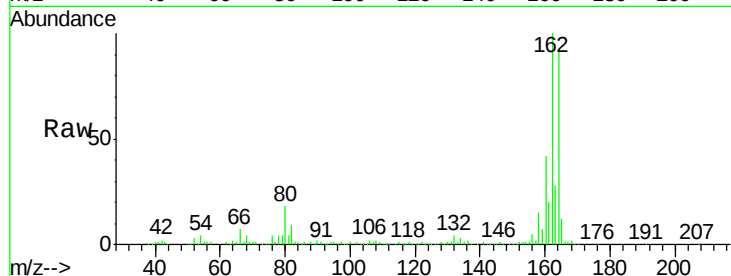




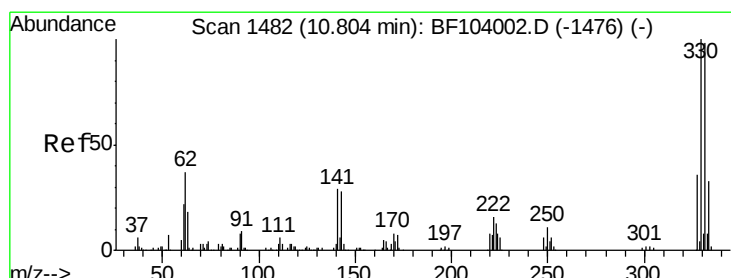
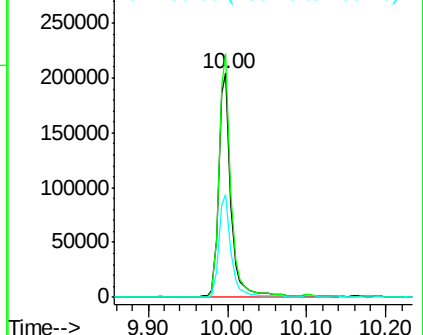
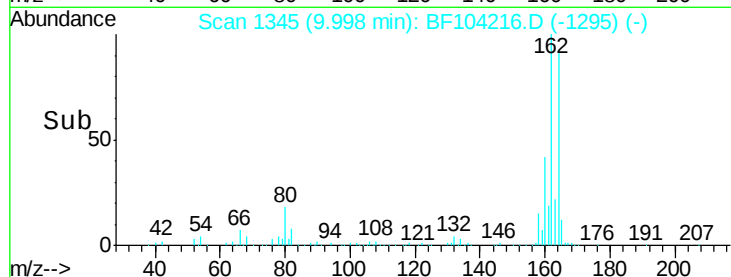
#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 10.00 min Scan# 1345
 Delta R.T. -0.01 min
 Lab File: BF104216.D
 Acq: 4 Apr 2018 9:20

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:164 Resp: 224737
 Ion Ratio Lower Upper
 164 100
 162 108.6 86.1 129.1
 160 45.7 38.3 57.5

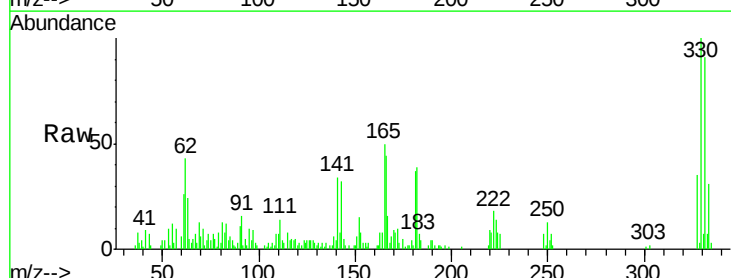


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

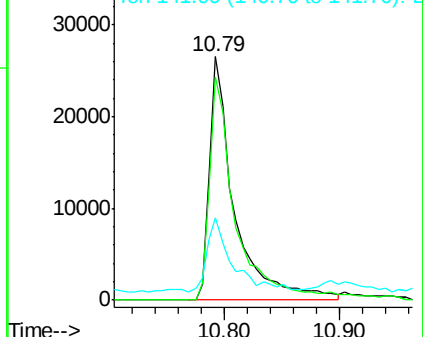
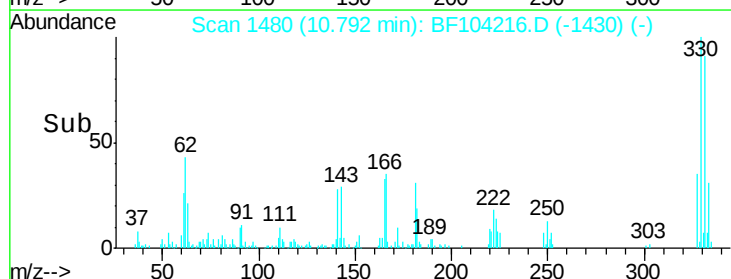


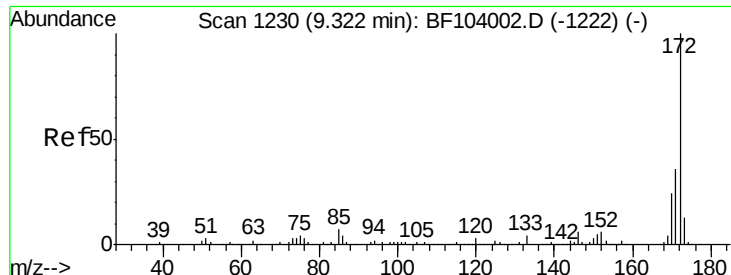
#41
 2,4,6-Tribromophenol
 Concen: 15.960 ng
 RT: 10.79 min Scan# 1480
 Delta R.T. -0.01 min
 Lab File: BF104216.D
 Acq: 4 Apr 2018 9:20

Tgt Ion:330 Resp: 39939
 Ion Ratio Lower Upper
 330 100
 332 97.0 77.0 115.6
 141 31.4 29.9 44.9



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

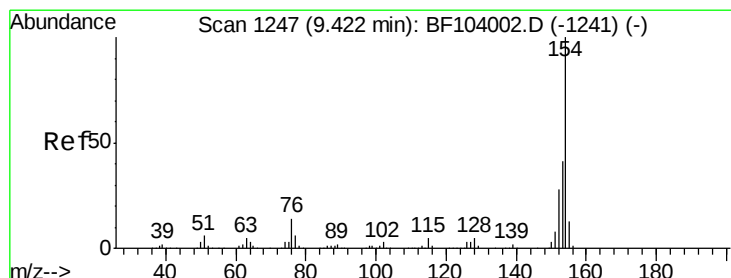
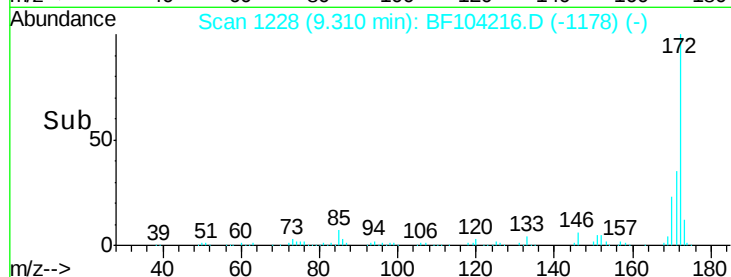
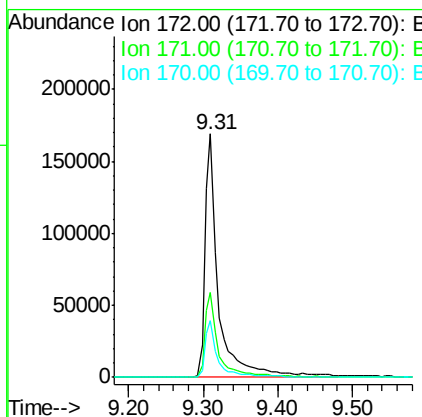
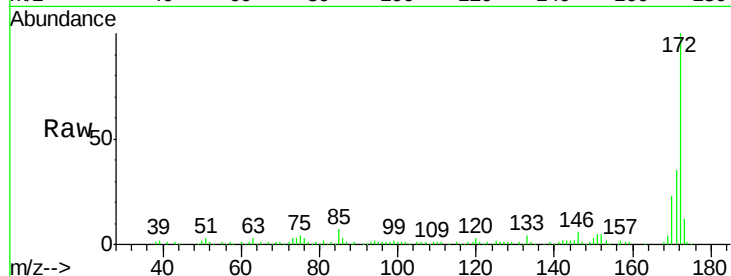




#44
 2-Fluorobiphenyl
 Concen: 15.136 ng
 RT: 9.31 min Scan# 1228
 Delta R.T. -0.01 min
 Lab File: BF104216.D
 Acq: 4 Apr 2018 9:20

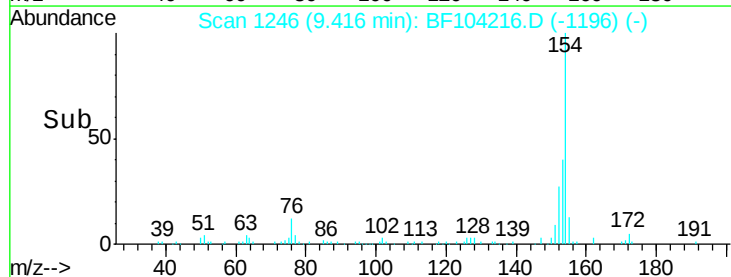
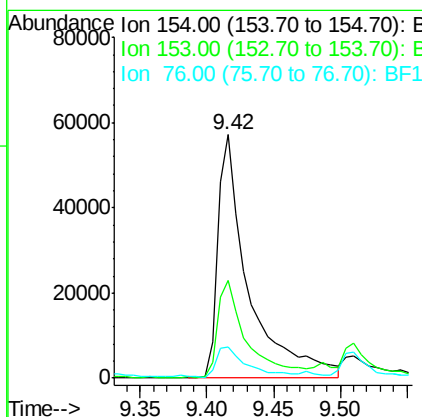
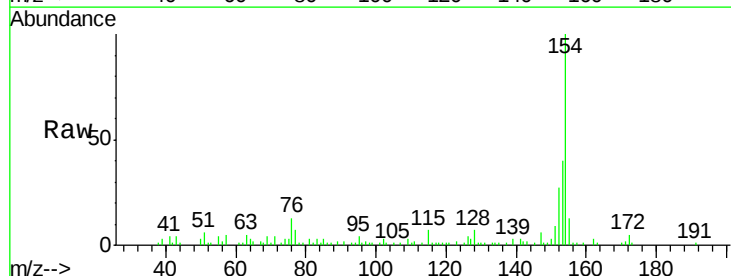
Instrument :
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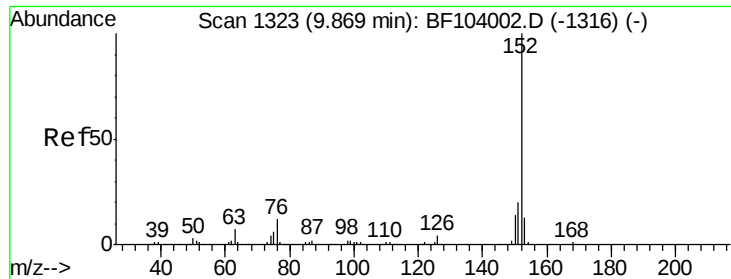
Tot Ion:172 Resp: 215716
 Ion Ratio Lower Upper
 172 100
 171 34.6 29.7 44.5
 170 23.0 19.6 29.4



#45
 1,1'-Biphenyl
 Concen: 4.797 ng
 RT: 9.42 min Scan# 1246
 Delta R.T. -0.01 min
 Lab File: BF104216.D
 Acq: 4 Apr 2018 9:20

Tgt Ion:154 Resp: 92537
 Ion Ratio Lower Upper
 154 100
 153 40.3 21.3 61.3
 76 12.8 0.0 34.0

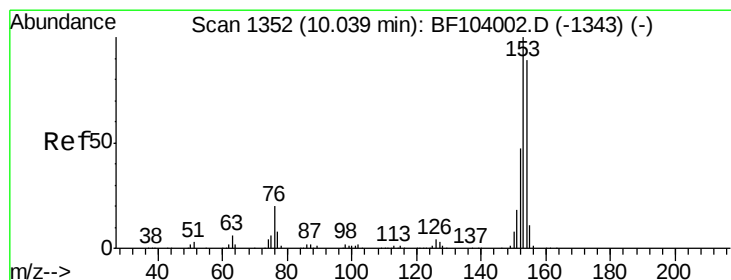
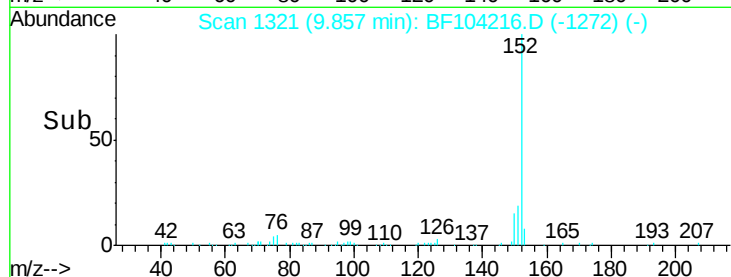
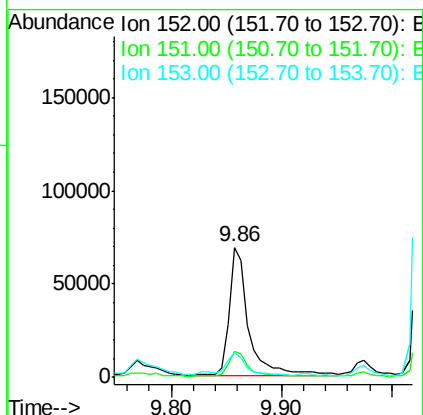
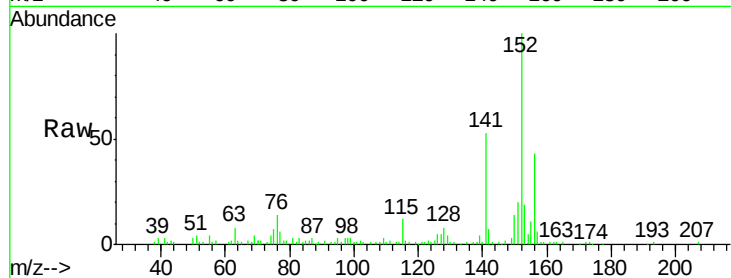




#48
Acenaphthylene
Concen: 3.626 ng
RT: 9.86 min Scan# 1321
Delta R.T. -0.01 min
Lab File: BF104216.D
Acq: 4 Apr 2018 9:20

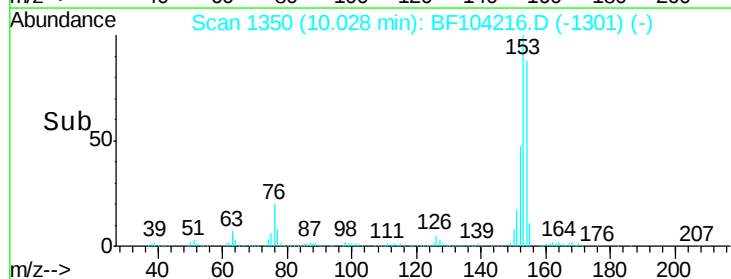
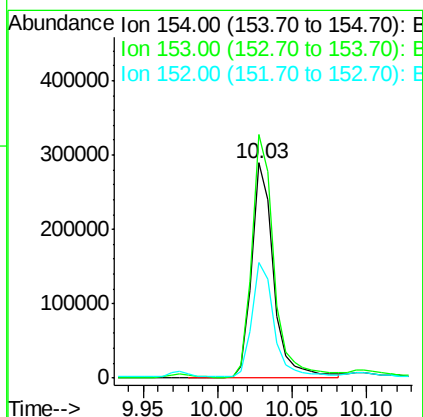
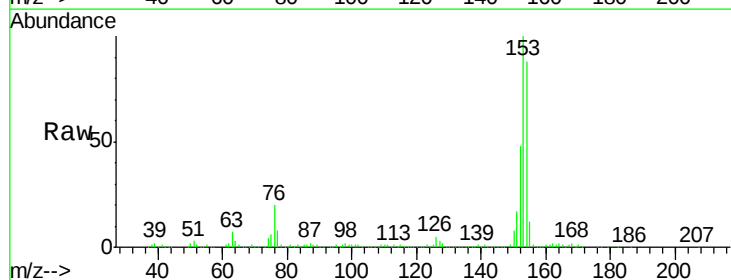
Instrument :
BNA_F
ClientSampleId :

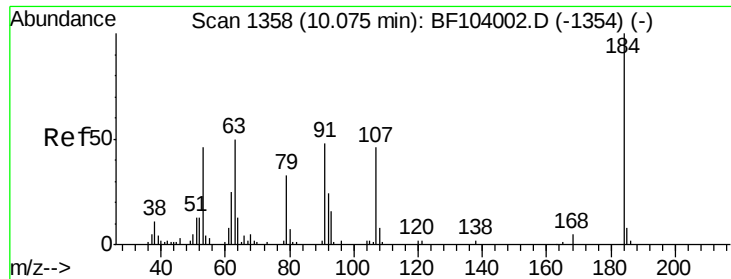
Tot Ion:152 Resp: 83571
Ion Ratio Lower Upper
152 100
151 20.3 16.3 24.5
153 18.8 10.7 16.1#



#51
Acenaphthene
Concen: 21.790 ng
RT: 10.03 min Scan# 1350
Delta R.T. -0.01 min
Lab File: BF104216.D
Acq: 4 Apr 2018 9:20

Tgt Ion:154 Resp: 290554
Ion Ratio Lower Upper
154 100
153 113.1 91.2 136.8
152 53.8 43.8 65.8

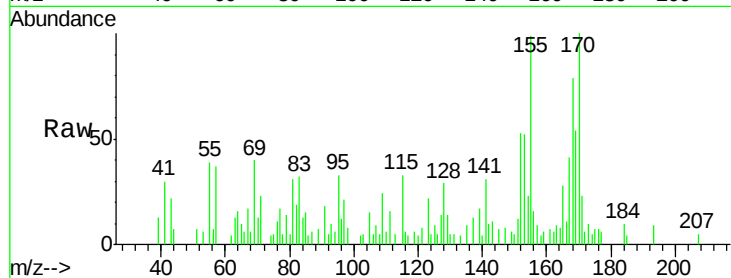




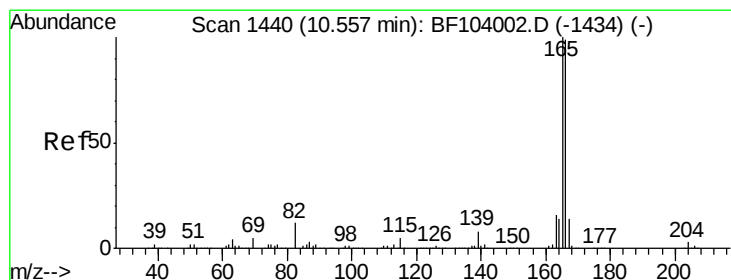
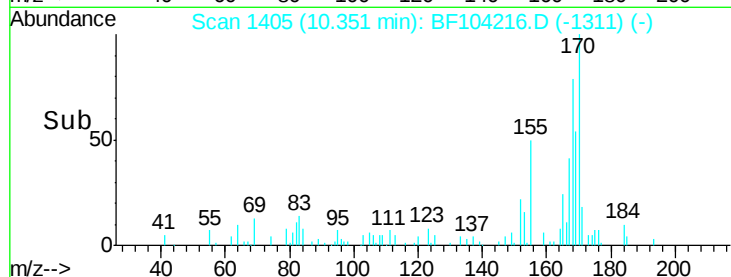
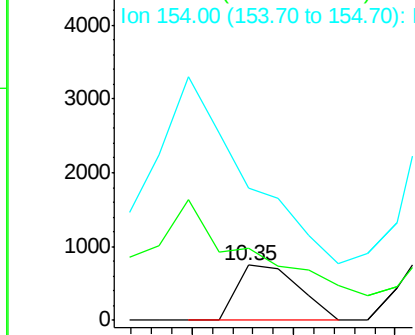
#53
 2,4-Dinitrophenol
 Concen: 5.924 ng
 RT: 10.35 min Scan# 1405
 Delta R.T. 0.25 min
 Lab File: BF104216.D
 Acq: 4 Apr 2018 9:20

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:184 Resp: 630
 Ion Ratio Lower Upper
 184 100
 63 130.8 54.2 81.2#
 154 240.2 184.0 276.0

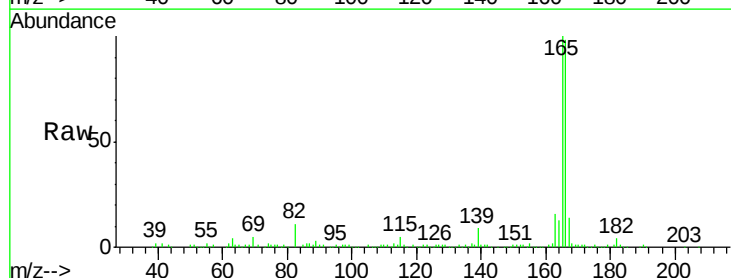


Abundance Ion 184.00 (183.70 to 184.70): E
 Ion 63.00 (62.70 to 63.70): BF1
 Ion 154.00 (153.70 to 154.70): E

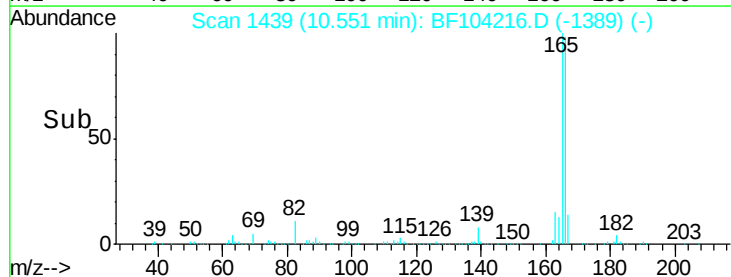
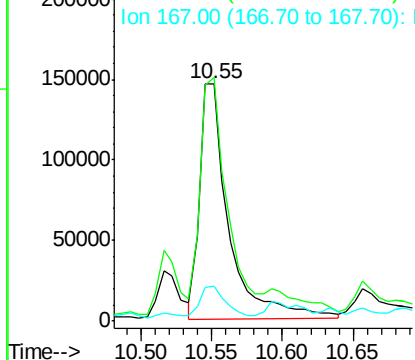


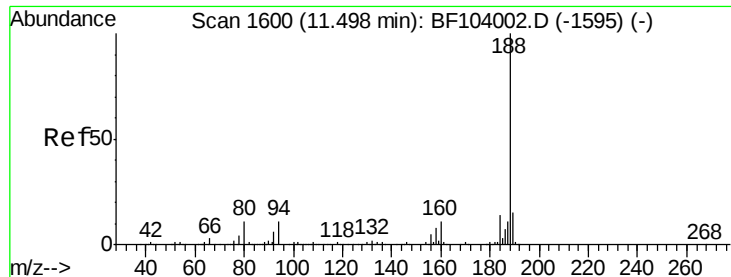
#57
 Fluorene
 Concen: 13.082 ng
 RT: 10.55 min Scan# 1439
 Delta R.T. -0.01 min
 Lab File: BF104216.D
 Acq: 4 Apr 2018 9:20

Tgt Ion:166 Resp: 210127
 Ion Ratio Lower Upper
 166 100
 165 102.5 79.8 119.8
 167 14.7 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

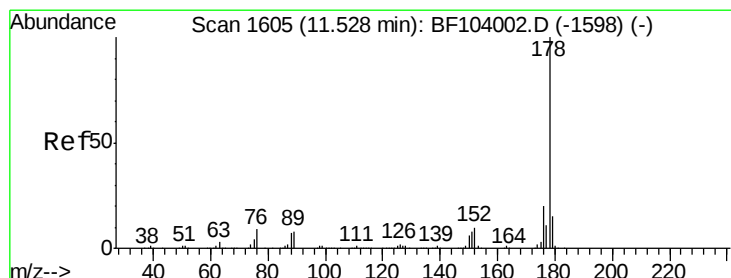
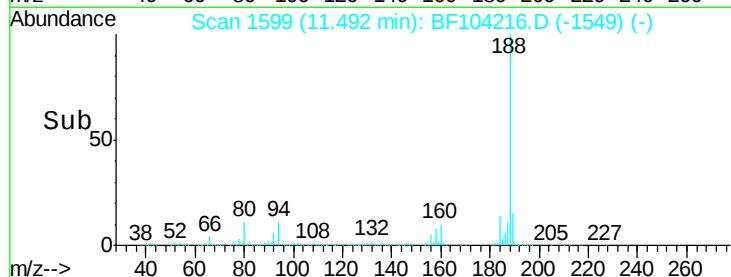
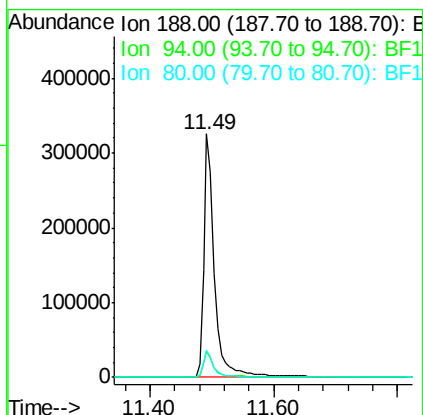
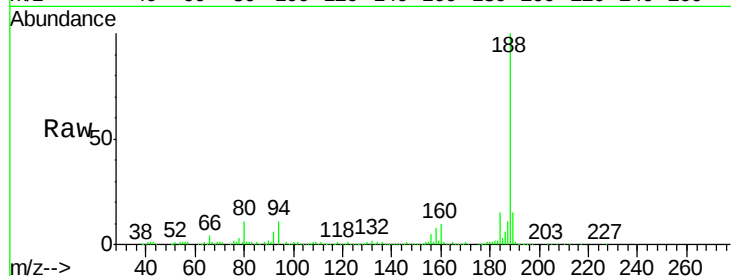




#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.49 min Scan# 1599
Delta R.T. -0.01 min
Lab File: BF104216.D
Acq: 4 Apr 2018 9:20

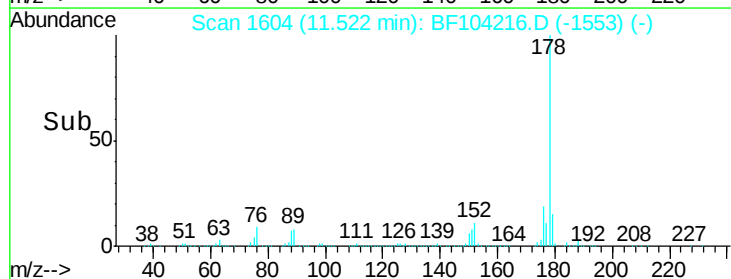
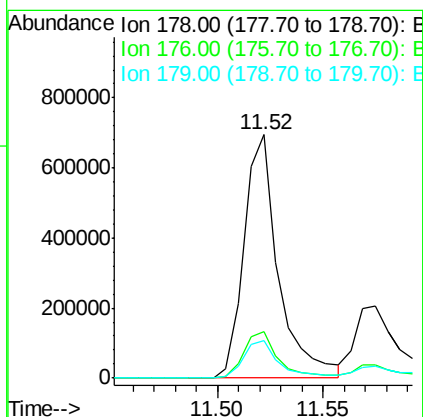
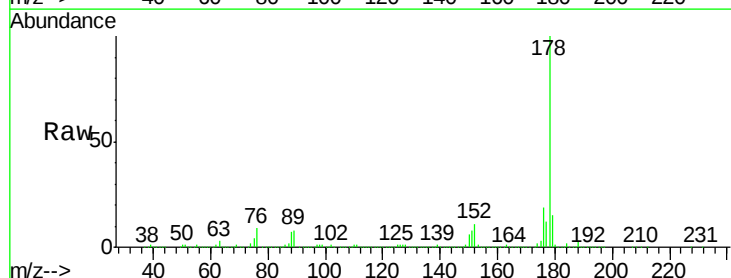
Instrument :
BNA_F
ClientSampleId :

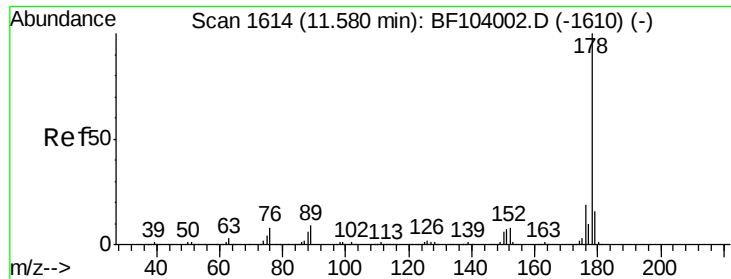
Tot Ion:188 Resp: 398165
Ion Ratio Lower Upper
188 100
94 10.7 8.5 12.7
80 11.1 9.2 13.8



#70
Phenanthrene
Concen: 36.562 ng
RT: 11.52 min Scan# 1604
Delta R.T. 0.00 min
Lab File: BF104216.D
Acq: 4 Apr 2018 9:20

Tgt Ion:178 Resp: 788160
Ion Ratio Lower Upper
178 100
176 19.0 15.8 23.8
179 15.4 13.0 19.6

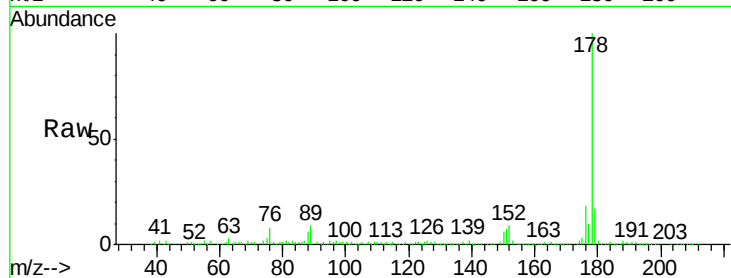




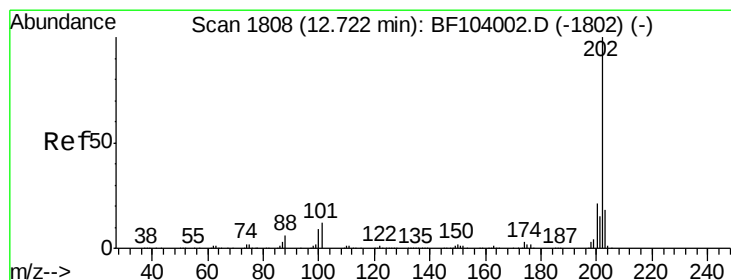
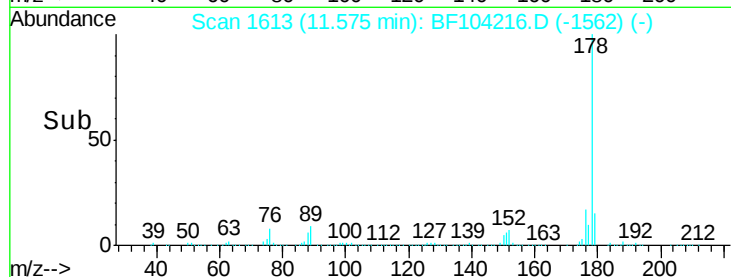
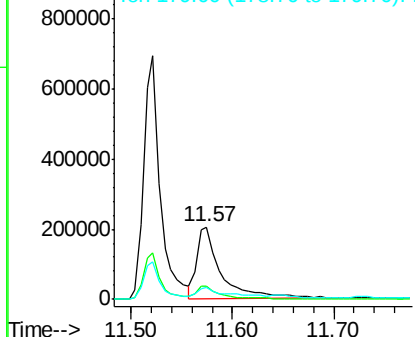
#71
 Anthracene
 Concen: 14.722 ng
 RT: 11.57 min Scan# 1613
 Delta R.T. 0.00 min
 Lab File: BF104216.D
 Acq: 4 Apr 2018 9:20

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:178 Resp: 331504
 Ion Ratio Lower Upper
 178 100
 176 17.6 15.4 23.2
 179 16.7 12.6 19.0

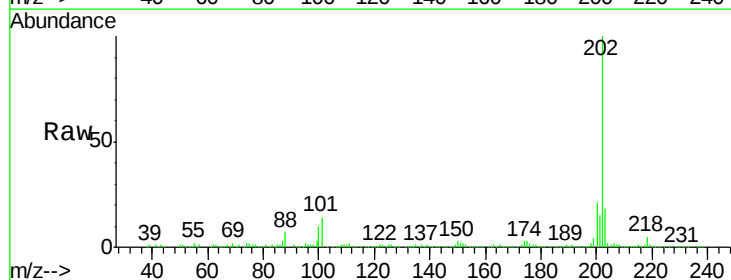


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

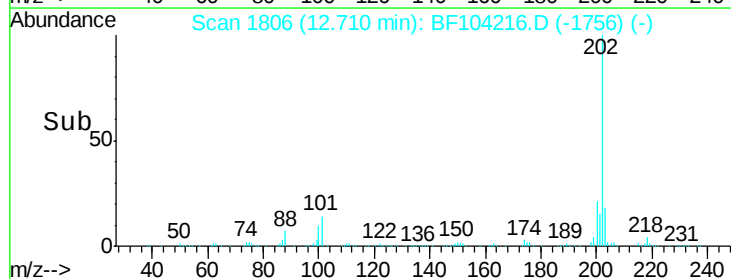
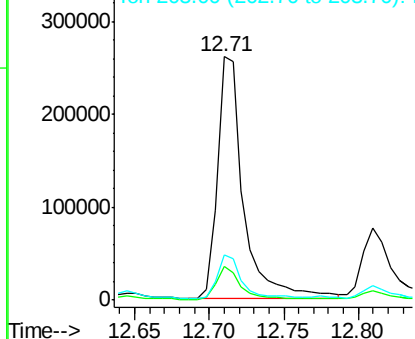


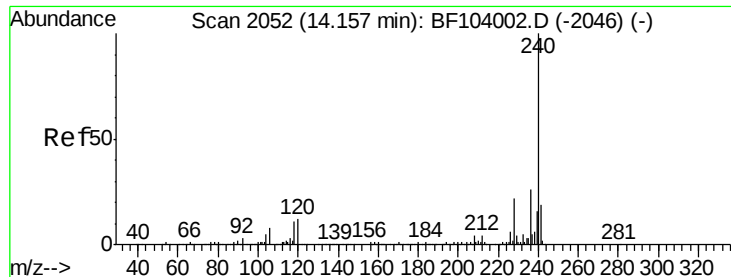
#74
 Fluoranthene
 Concen: 13.868 ng
 RT: 12.71 min Scan# 1806
 Delta R.T. -0.01 min
 Lab File: BF104216.D
 Acq: 4 Apr 2018 9:20

Tgt Ion:202 Resp: 317770
 Ion Ratio Lower Upper
 202 100
 101 13.8 0.0 34.1
 203 18.4 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: 20.000 ng

RT: 14.15 min Scan# 2050

Delta R.T. -0.01 min

Lab File: BF104216.D

Acq: 4 Apr 2018 9:20

Instrument :

BNA_F

ClientSampled :

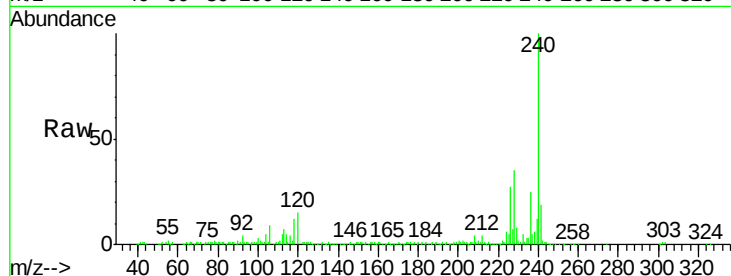
Tot Ion:240 Resp: 250030

Ion Ratio Lower Upper

240 100

120 14.7 9.5 14.3#

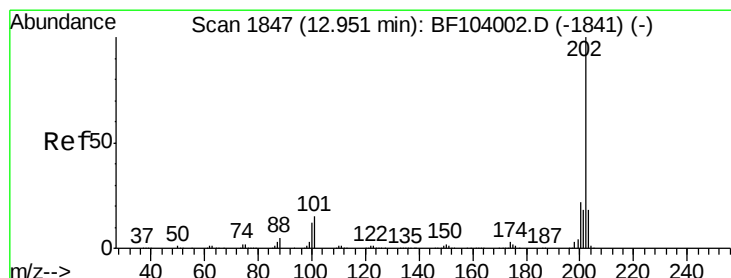
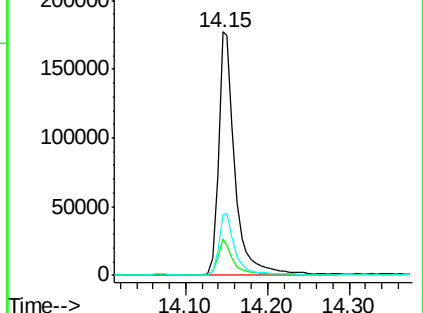
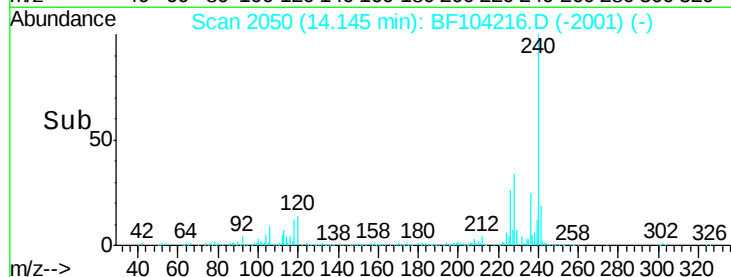
236 25.1 20.7 31.1



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 25.242 ng

RT: 12.95 min Scan# 1846

Delta R.T. -0.01 min

Lab File: BF104216.D

Acq: 4 Apr 2018 9:20

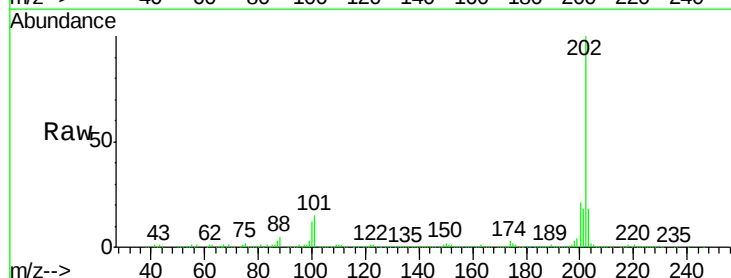
Tgt Ion:202 Resp: 453681

Ion Ratio Lower Upper

202 100

200 20.8 17.4 26.2

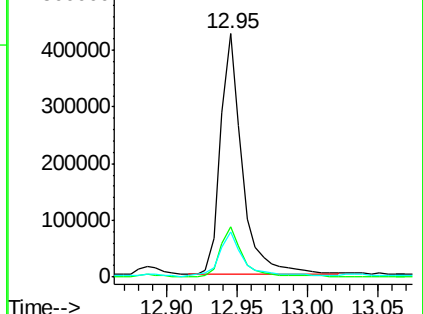
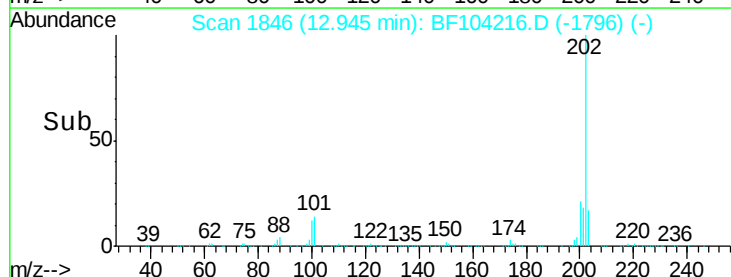
203 18.4 14.3 21.5

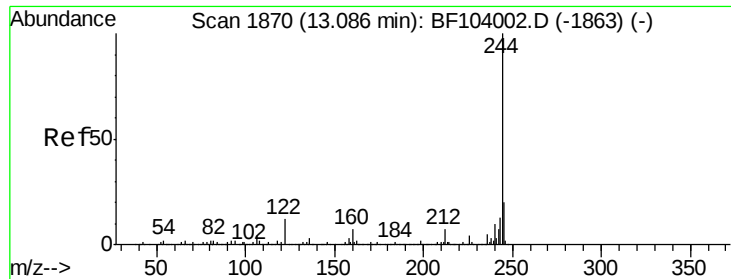


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 18.399 ng

RT: 13.07 min Scan# 1868

Delta R.T. -0.01 min

Lab File: BF104216.D

Acq: 4 Apr 2018 9:20

Instrument :

BNA_F

ClientSampleId :

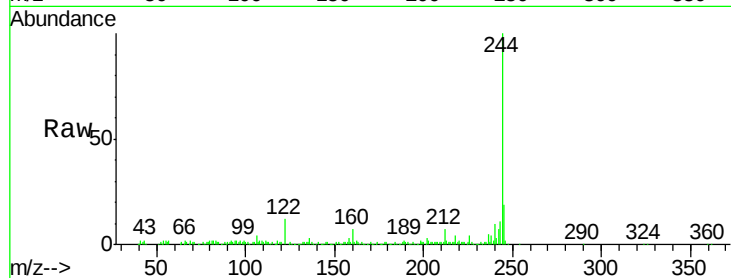
Tot Ion:244 Resp: 199241

Ion Ratio Lower Upper

244 100

212 6.7 5.4 8.0

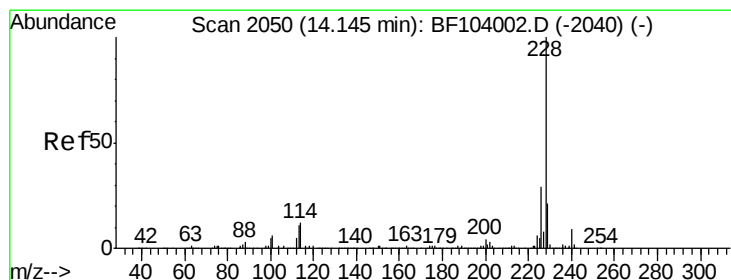
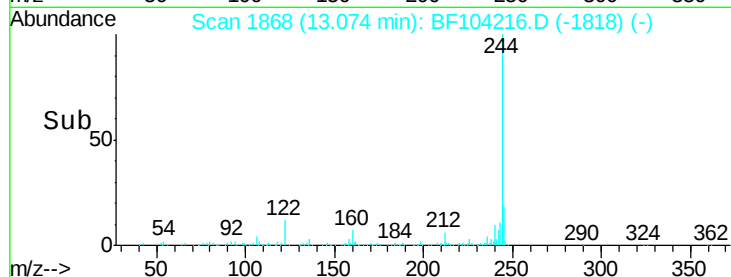
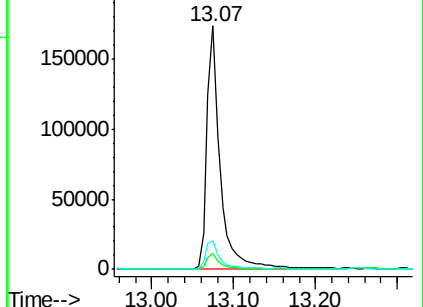
122 11.8 11.0 16.4



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: 8.791 ng

RT: 14.14 min Scan# 2049

Delta R.T. -0.01 min

Lab File: BF104216.D

Acq: 4 Apr 2018 9:20

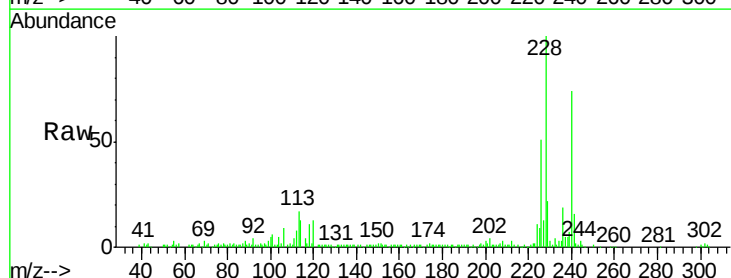
Tgt Ion:228 Resp: 137530

Ion Ratio Lower Upper

228 100

226 51.0 22.6 33.8#

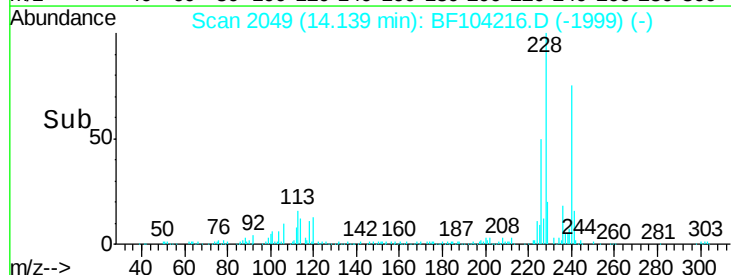
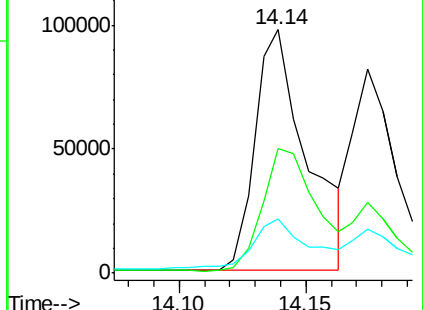
229 22.3 15.8 23.6

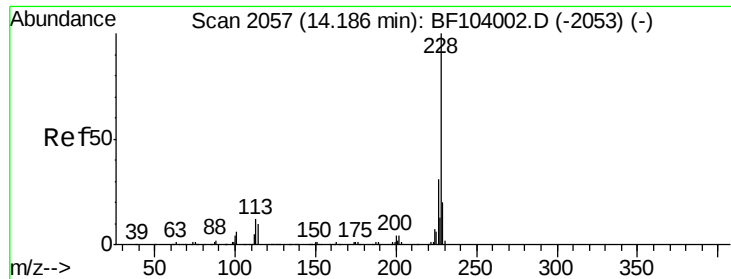


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 6.609 ng

RT: 14.17 min Scan# 2055

Delta R.T. -0.01 min

Lab File: BF104216.D

Acq: 4 Apr 2018 9:20

Instrument :

BNA_F

ClientSampleId :

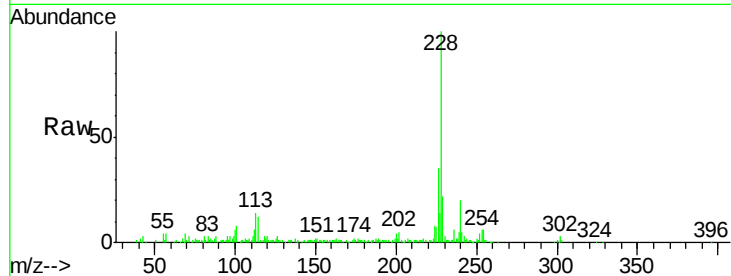
Tot Ion:228 Resp: 101266

Ion Ratio Lower Upper

228 100

226 34.7 25.0 37.6

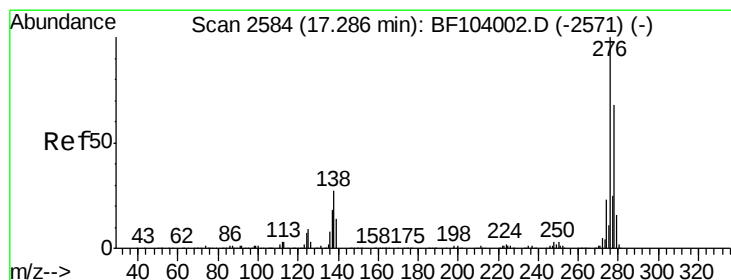
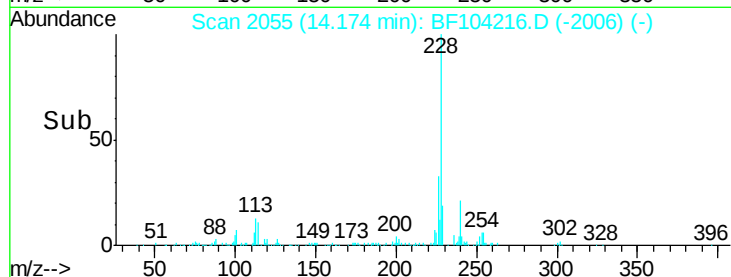
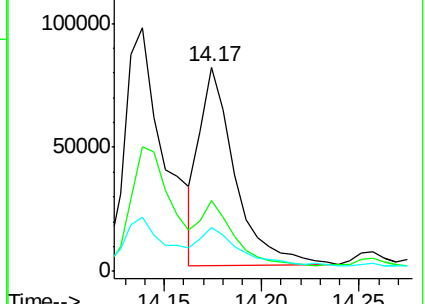
229 21.8 16.2 24.4



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: 4.884 ng

RT: 17.28 min Scan# 2583

Delta R.T. -0.02 min

Lab File: BF104216.D

Acq: 4 Apr 2018 9:20

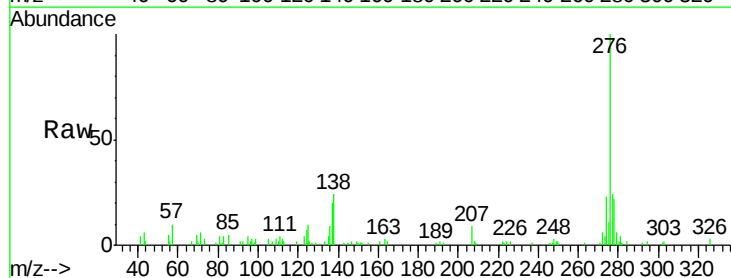
Tgt Ion:276 Resp: 77549

Ion Ratio Lower Upper

276 100

138 22.0 25.0 37.6#

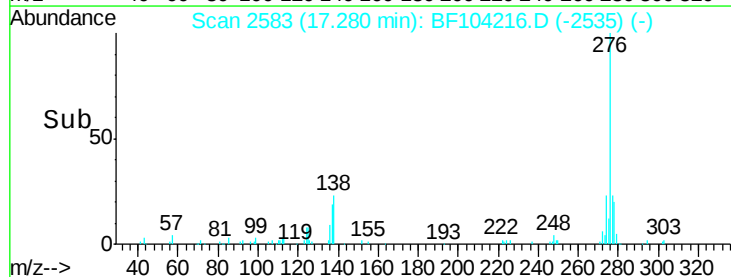
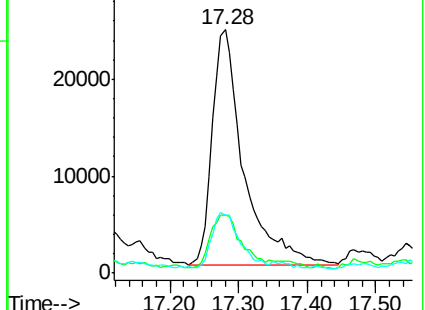
277 20.5 20.1 30.1

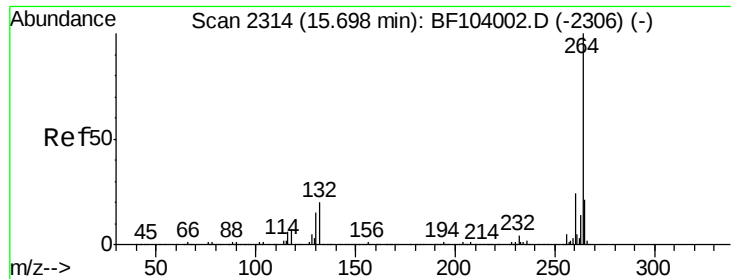


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



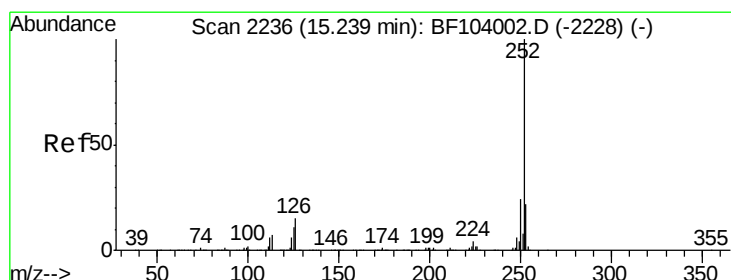
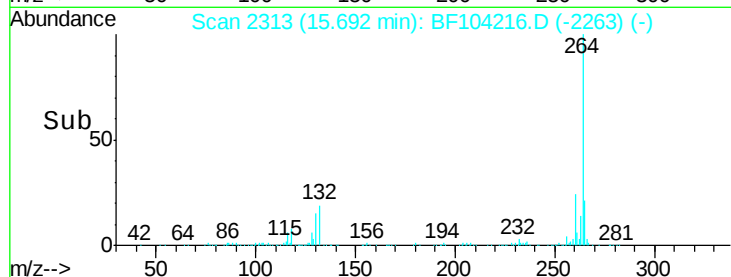
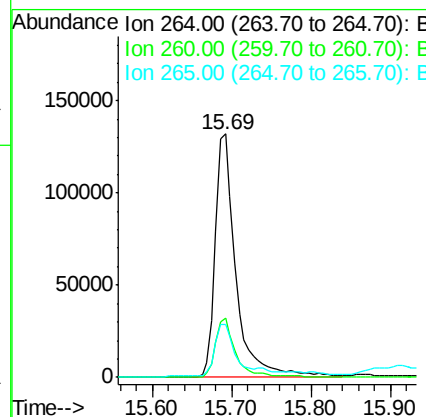
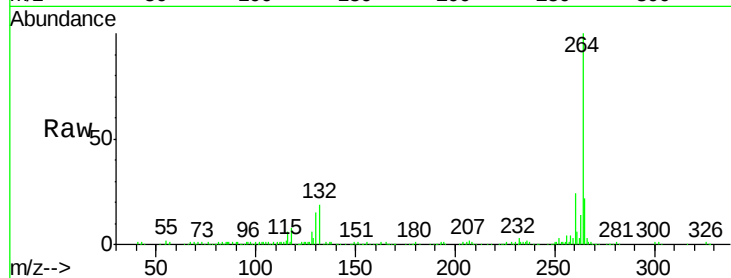


#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.69 min Scan# 2313
Delta R.T. -0.01 min
Lab File: BF104216.D
Acq: 4 Apr 2018 9:20

Instrument :
BNA_F
ClientSampleId :

Tot Ion:264 Resp: 241646

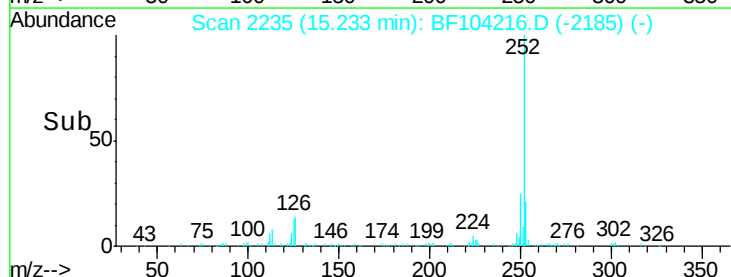
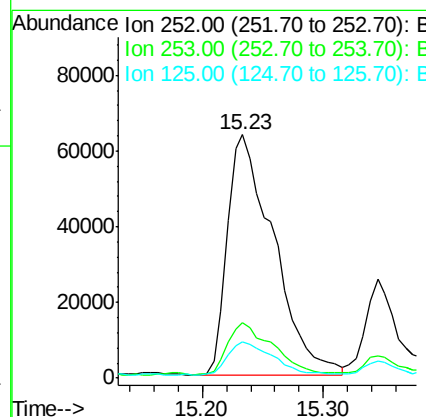
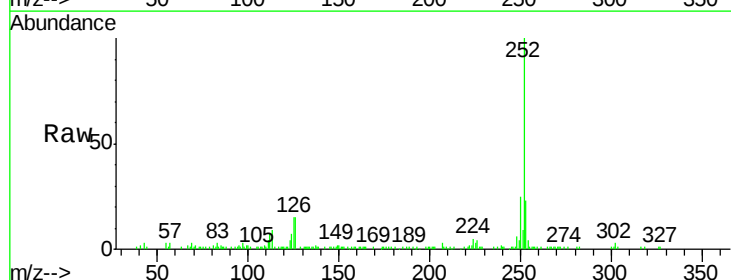
Ion	Ratio	Lower	Upper
264	100		
260	24.1	19.2	28.8
265	21.8	17.5	26.3

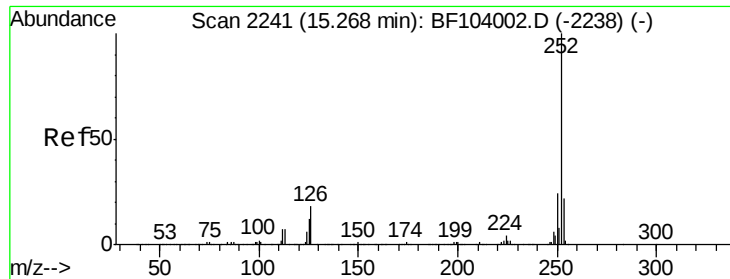


#87
Benzo(b)fluoranthene
Concen: 11.545 ng
RT: 15.23 min Scan# 2235
Delta R.T. -0.01 min
Lab File: BF104216.D
Acq: 4 Apr 2018 9:20

Tgt Ion:252 Resp: 169778

Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.0	25.6
125	15.0	9.0	13.6#

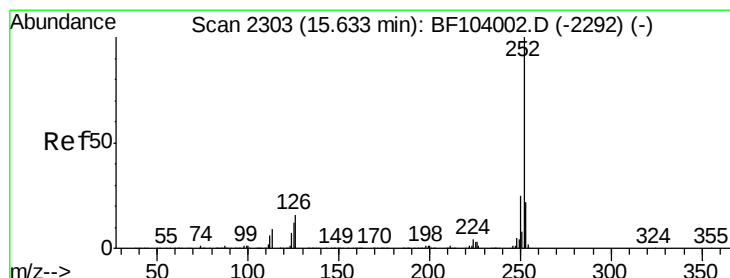
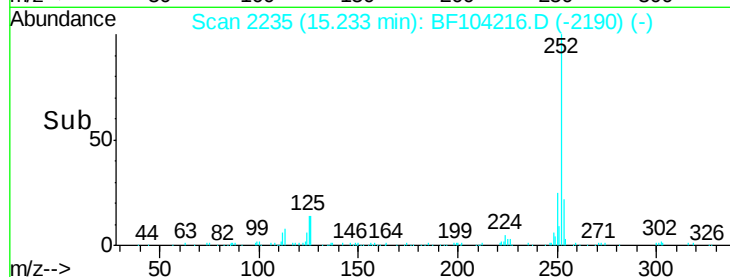
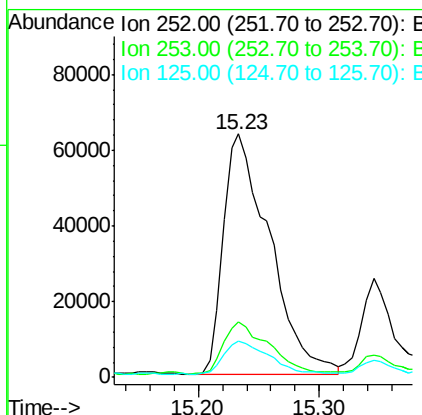
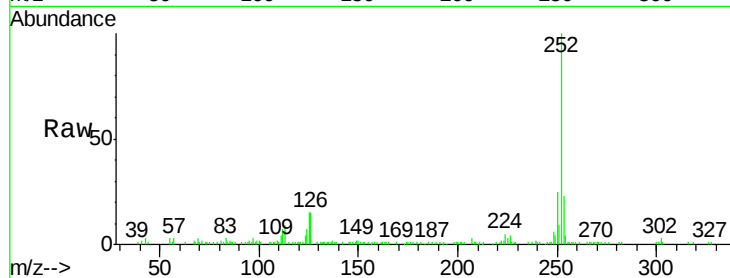




#88
Benzo(k)fluoranthene
Concen: 12.255 ng
RT: 15.23 min Scan# 2235
Delta R.T. -0.04 min
Lab File: BF104216.D
Acq: 4 Apr 2018 9:20

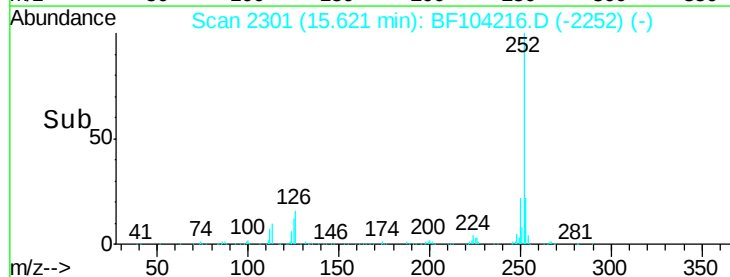
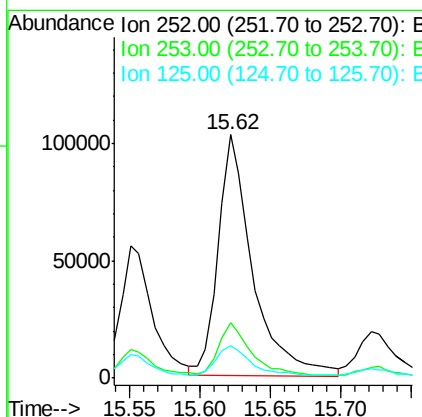
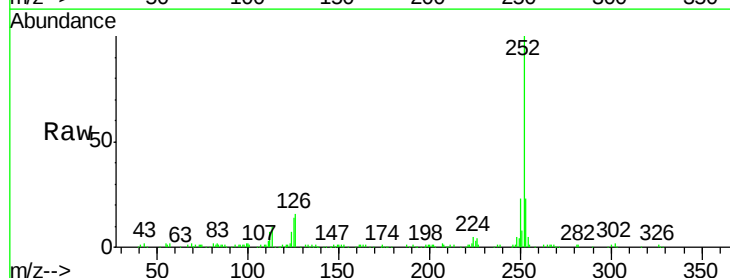
Instrument :
BNA_F
ClientSampleId :

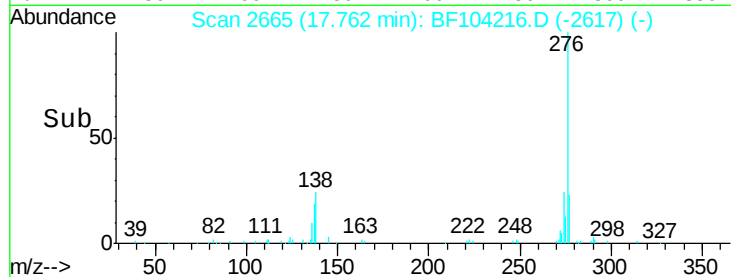
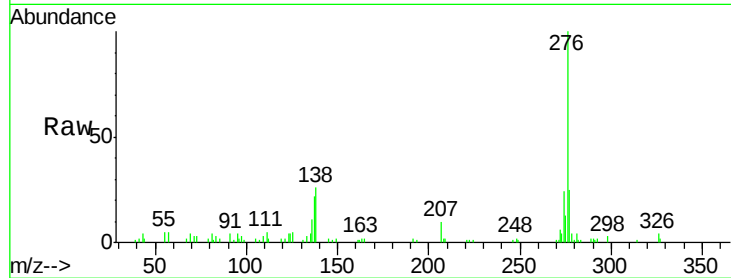
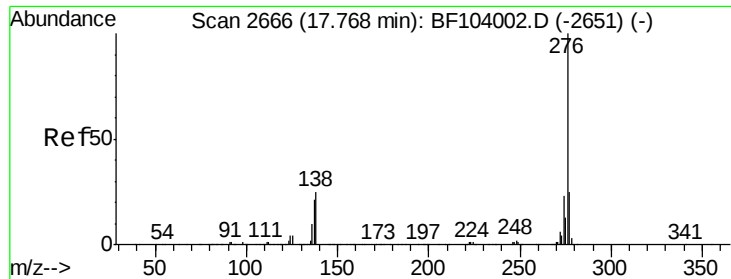
Tot Ion:252 Resp: 169778
Ion Ratio Lower Upper
252 100
253 22.8 17.9 26.9
125 15.0 10.2 15.2



#89
Benzo(a)pyrene
Concen: 12.861 ng
RT: 15.62 min Scan# 2301
Delta R.T. -0.01 min
Lab File: BF104216.D
Acq: 4 Apr 2018 9:20

Tgt Ion:252 Resp: 175276
Ion Ratio Lower Upper
252 100
253 22.7 17.1 25.7
125 13.5 9.8 14.6





#91

Benzo(a,h,i)perylene

Concen: 6.452 ng

RT: 17.76 min Scan# 2665

Delta R.T. -0.02 min

Lab File: BF104216.D

Acq: 4 Apr 2018 9:20

Instrument :

BNA_F

ClientSampleId :

Tot Ion: 276 Resp: 81434

Ion Ratio Lower Upper

276 100

277 25.1 17.9 26.9

138 26.0 21.8 32.8

