

Data Path : Z:\HPCHEM1\BNA F\DATA\BF020817\
 Data File : BF092880.D
 Acq On : 9 Feb 2017 11:16
 Operator : SJ/MA
 Sample : I1728-01DL 20X
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Feb 09 12:37:00 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF013017.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jan 30 14:50:05 2017
 Response via : Initial Calibration

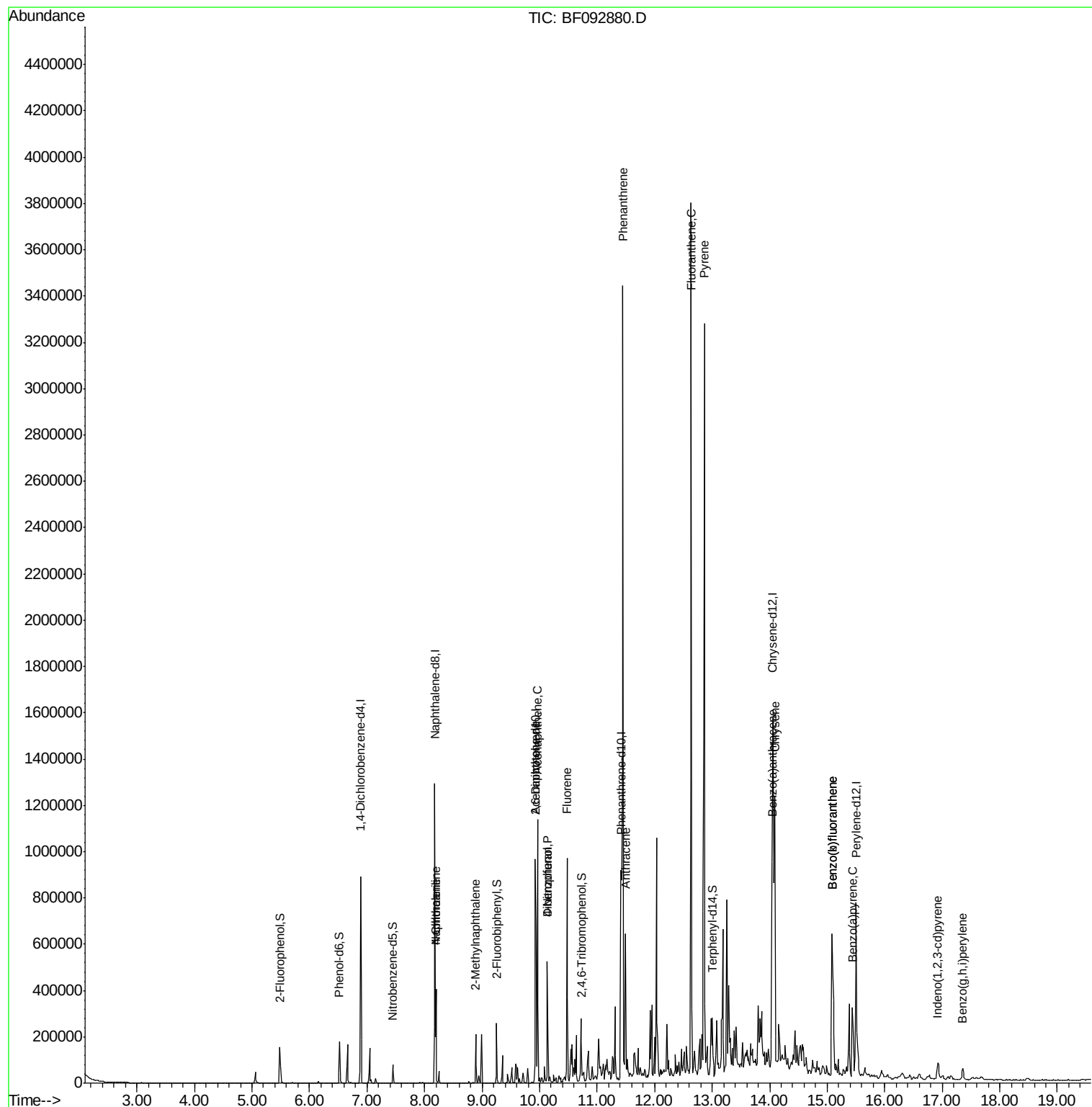
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.89	152	130174	20.00	ng	-0.08
21) Naphthalene-d8	8.18	136	548393	20.00	ng	-0.08
38) Acenaphthene-d10	9.93	164	280336	20.00	ng	-0.08
63) Phenanthrene-d10	11.42	188	491330	20.00	ng	-0.07
75) Chrysene-d12	14.05	240	400274	20.00	ng	-0.09
86) Perylene-d12	15.51	264	333222	20.00	ng	-0.10
System Monitoring Compounds						
5) 2-Fluorophenol	5.48	112	50310	6.63	ng	-0.09
7) Phenol-d6	6.52	99	64658	6.62	ng	-0.08
23) Nitrobenzene-d5	7.45	82	33587	3.41	ng	-0.09
41) 2,4,6-Tribromophenol	10.73	330	10273	5.07	ng	-0.08
44) 2-Fluorobiphenyl	9.25	172	78165	5.05	ng	-0.08
78) Terphenyl-d14	13.00	244	73616	4.32	ng	-0.08
Target Compounds						
31) Naphthalene	8.20	128	194693	7.00	ng	Qvalue 98
33) 4-Chloroaniline	8.20	127	24343	2.23	ng	# 33
37) 2-Methylnaphthalene	8.89	142	64172	3.60	ng	99
50) 2,6-Dinitrotoluene	9.93	165	39106	9.59	ng	# 31
51) Acenaphthene	9.96	154	256370	15.63	ng	98
54) Dibenzofuran	10.13	168	219216	9.99	ng	96
55) 4-Nitrophenol	10.13	139	77742	23.13	ng	# 5
57) Fluorene	10.48	166	288507	17.09	ng	98
70) Phenanthrene	11.45	178	1374168	48.82	ng	99
71) Anthracene	11.49	178	238629	8.44	ng	98
74) Fluoranthene	12.64	202	1549549	53.37	ng	98
77) Pyrene	12.87	202	1379975	46.07	ng	99
80) Benzo(a)anthracene	14.04	228	466708	19.06	ng	99
82) Chrysene	14.09	228	525099	22.91	ng	98
85) Indeno(1,2,3-cd)pyrene	16.92	276	49452	2.79	ng	93
87) Benzo(b)fluoranthene	15.08	252	449606	20.50	ng	97
88) Benzo(k)fluoranthene	15.08	252	449606	23.74	ng	96
89) Benzo(a)pyrene	15.44	252	148654	7.84	ng	98
91) Benzo(a,h,i)perylene	17.36	276	40087	2.59	ng	# 91

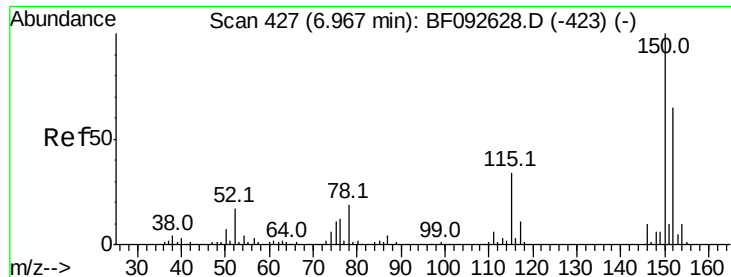
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.89 min Scan# 420

Delta R.T. -0.08 min

Lab File: BF092880.D

Acq: 9 Feb 2017 11:16

Instrument :

BNA_F

ClientSampleId :

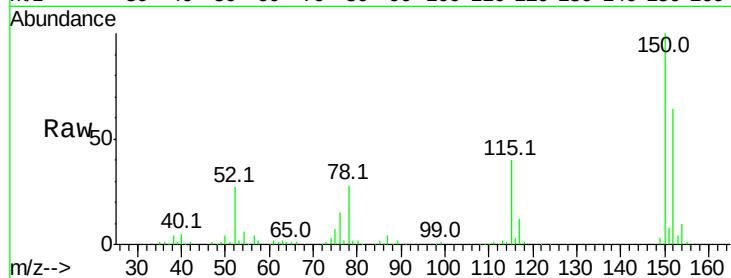
Tot Ion:152 Resp: 130174

Ion Ratio Lower Upper

152 100

150 157.0 124.9 187.3

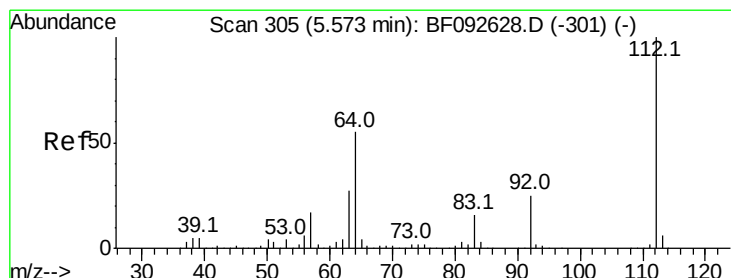
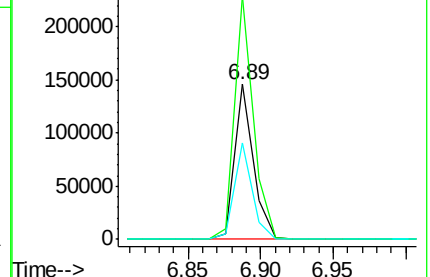
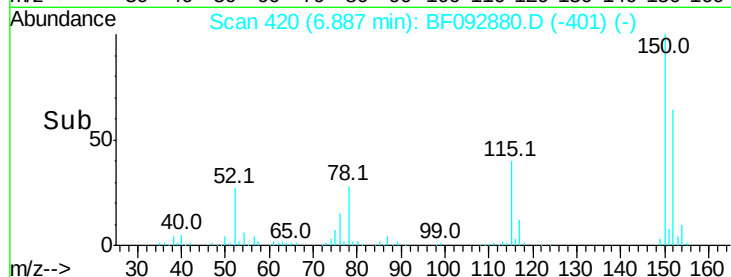
115 62.3 46.0 69.0



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: 6.63 ng

RT: 5.48 min Scan# 297

Delta R.T. -0.09 min

Lab File: BF092880.D

Acq: 9 Feb 2017 11:16

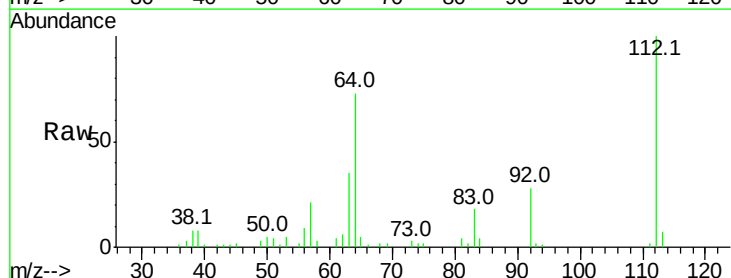
Tgt Ion:112 Resp: 50310

Ion Ratio Lower Upper

112 100

64 72.8 46.1 69.1#

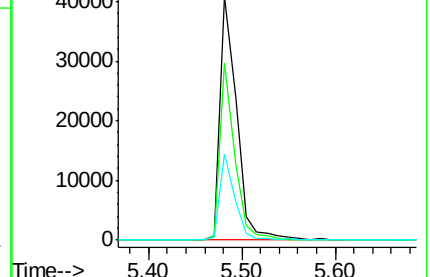
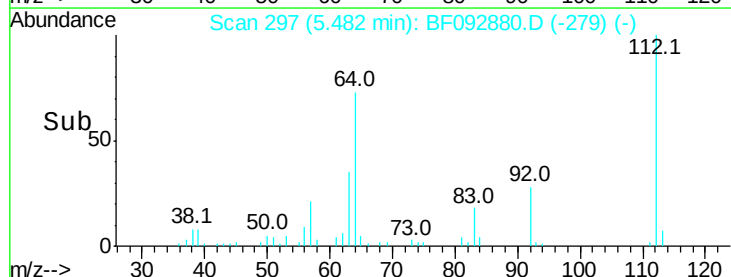
63 35.3 23.8 35.6

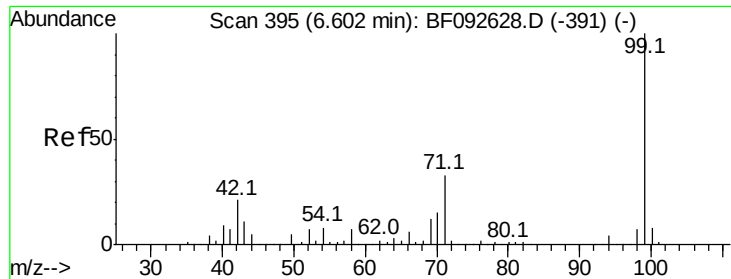


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 6.62 ng

RT: 6.52 min Scan# 388

Delta R.T. -0.08 min

Lab File: BF092880.D

Acq: 9 Feb 2017 11:16

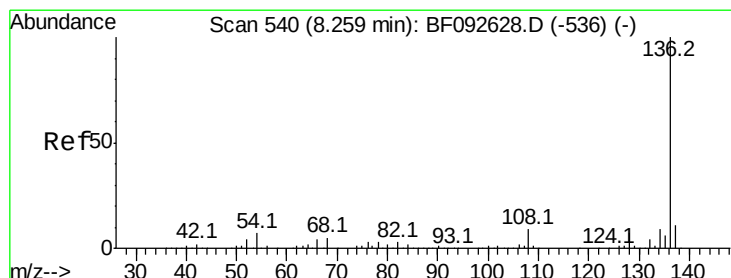
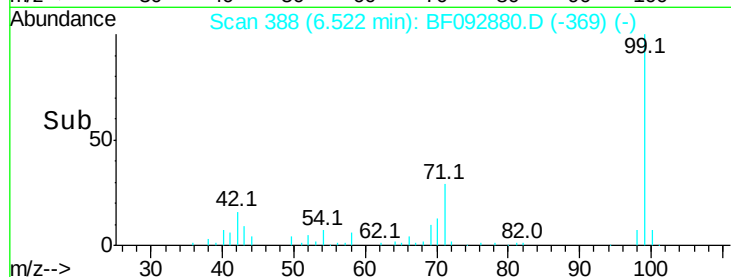
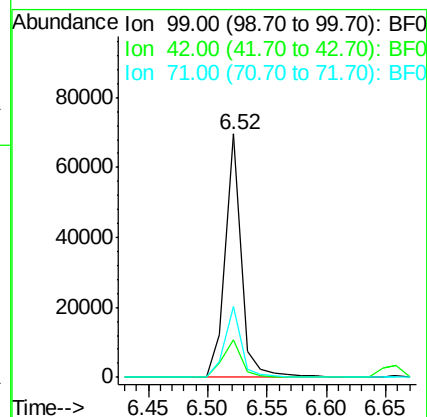
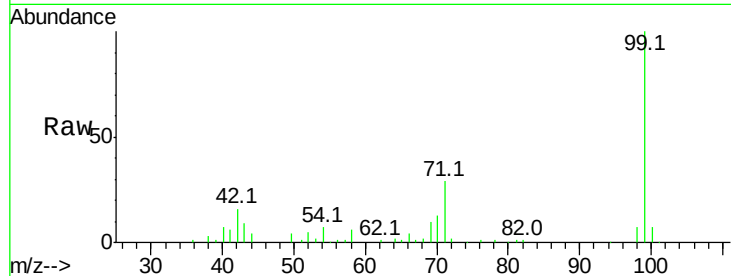
Instrument :

BNA_F

ClientSampleId :

Tot Ion: 99 Resp: 64658

Ion	Ratio	Lower	Upper
99	100		
42	15.5	15.6	23.4#
71	29.2	27.5	41.3



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.18 min Scan# 533

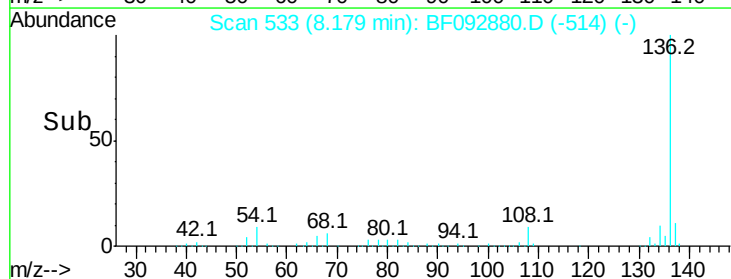
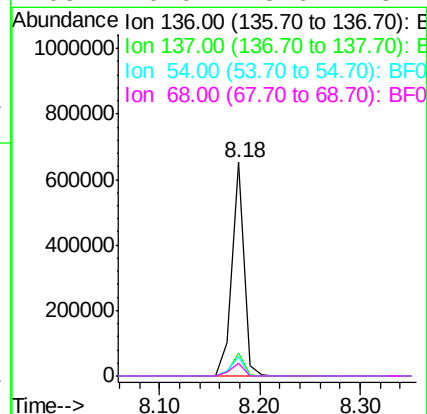
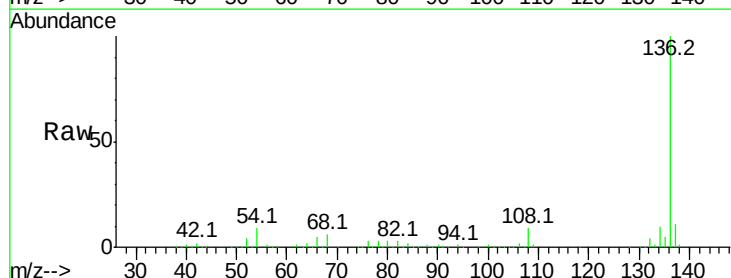
Delta R.T. -0.08 min

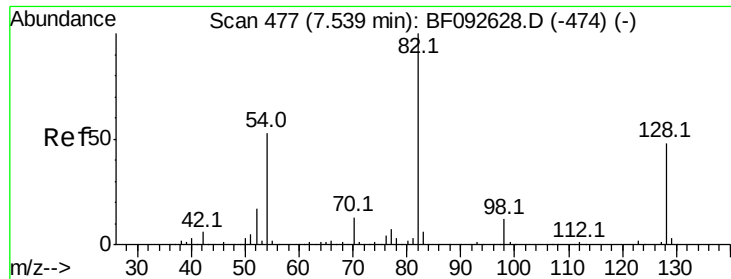
Lab File: BF092880.D

Acq: 9 Feb 2017 11:16

Tgt Ion: 136 Resp: 548393

Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.4	12.6
54	9.2	4.5	6.7#
68	6.0	3.6	5.4#

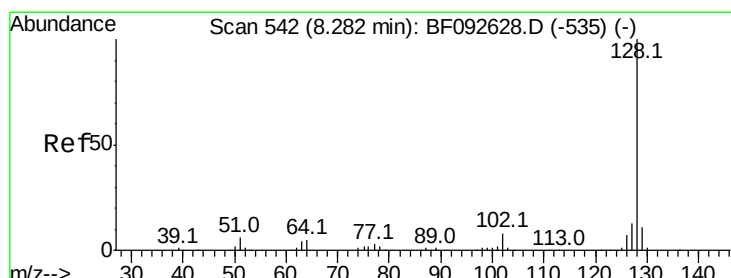
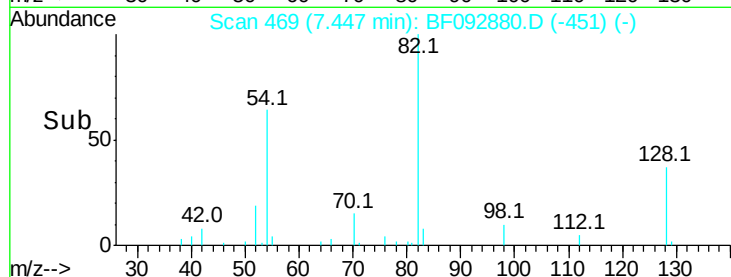
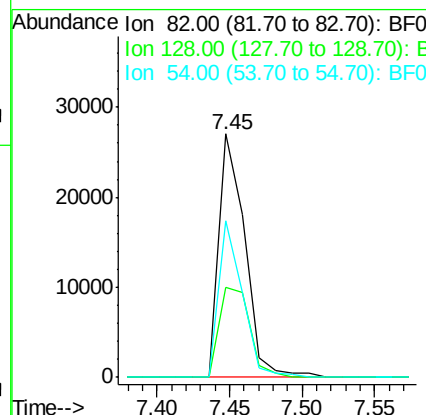
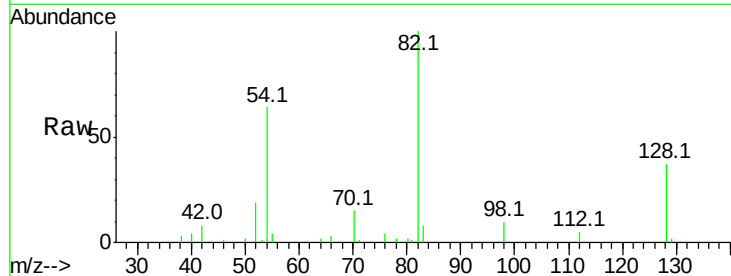




#23
 Nitrobenzene-d5
 Concen: 3.41 ng
 RT: 7.45 min Scan# 469
 Delta R.T. -0.09 min
 Lab File: BF092880.D
 Acq: 9 Feb 2017 11:16

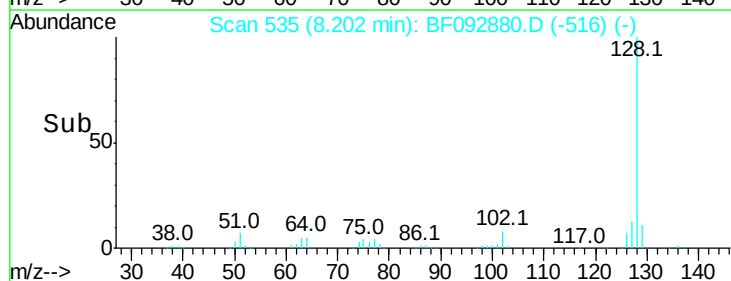
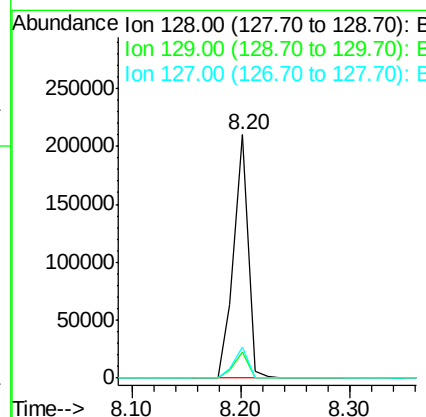
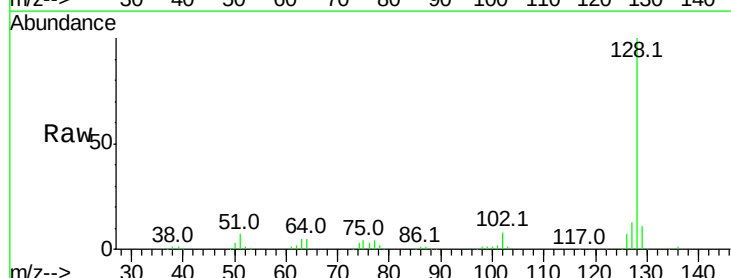
Instrument :
 BNA_F
 ClientSampleId :

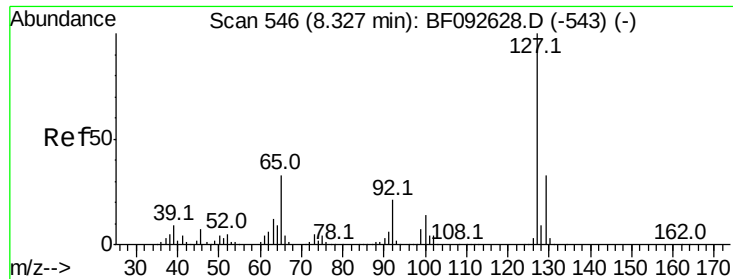
Tot Ion: 82 Resp: 33587
 Ion Ratio Lower Upper
 82 100
 128 36.8 34.6 52.0
 54 64.3 39.5 59.3#



#31
 Naphthalene
 Concen: 7.00 ng
 RT: 8.20 min Scan# 535
 Delta R.T. -0.08 min
 Lab File: BF092880.D
 Acq: 9 Feb 2017 11:16

Tgt Ion: 128 Resp: 194693
 Ion Ratio Lower Upper
 128 100
 129 10.8 9.5 14.3
 127 12.8 10.8 16.2

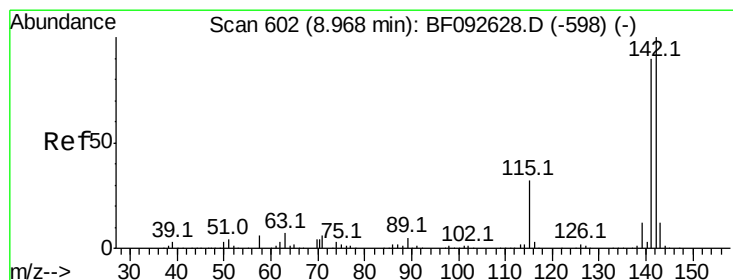
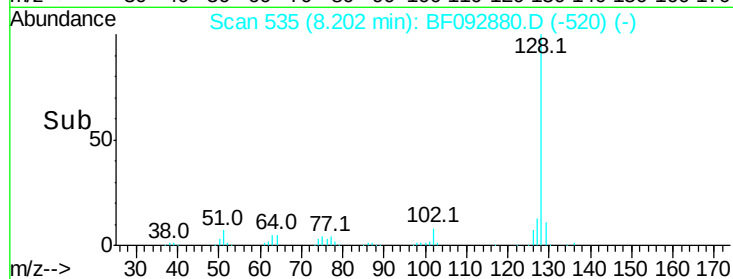
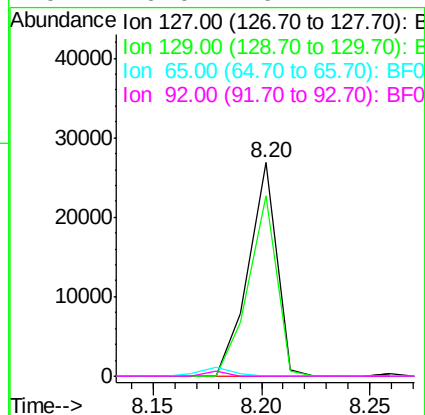
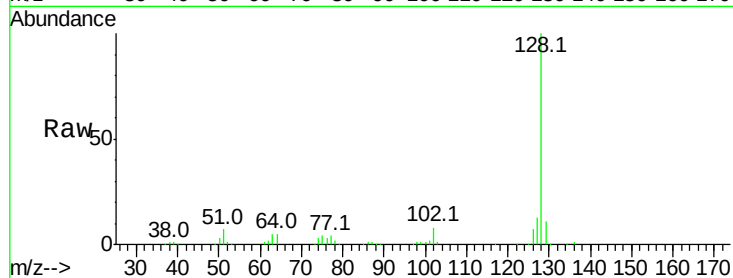




#33
 4-Chloroaniline
 Concen: 2.23 ng
 RT: 8.20 min Scan# 535
 Delta R.T. -0.13 min
 Lab File: BF092880.D
 Acq: 9 Feb 2017 11:16

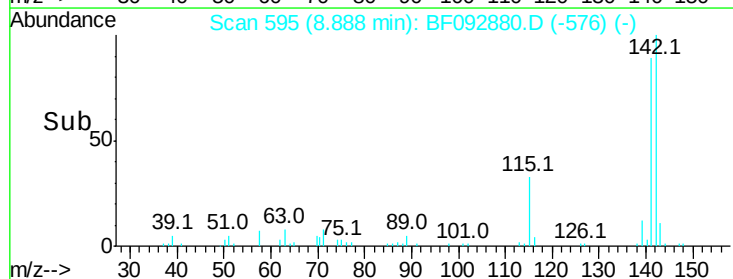
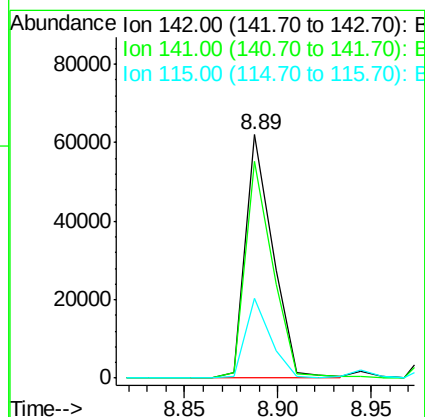
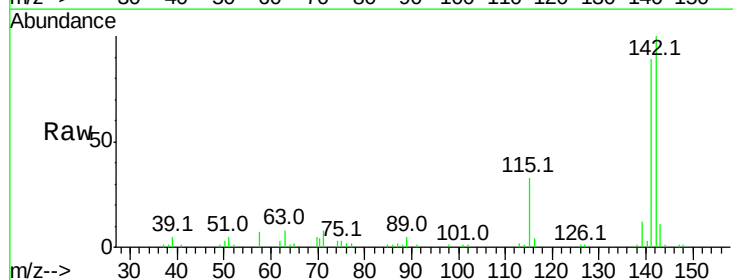
Instrument :
 BNA_F
 ClientSampleId :

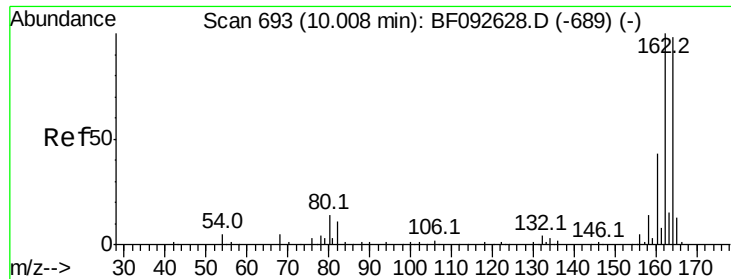
Tot Ion:	127	Resp:	24343
Ion	Ratio	Lower	Upper
127	100		
129	84.4	26.3	39.5#
65	0.0	25.8	38.8#
92	0.0	16.1	24.1#



#37
 2-Methylnaphthalene
 Concen: 3.60 ng
 RT: 8.89 min Scan# 595
 Delta R.T. -0.08 min
 Lab File: BF092880.D
 Acq: 9 Feb 2017 11:16

Tgt Ion:	142	Resp:	64172
Ion	Ratio	Lower	Upper
142	100		
141	89.1	71.0	106.6
115	32.9	28.3	42.5

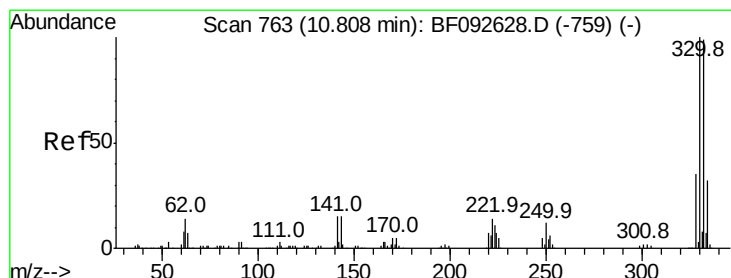
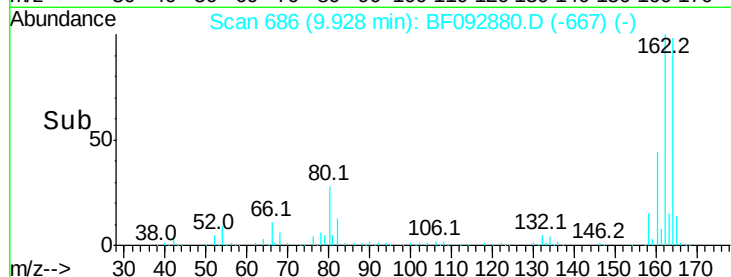
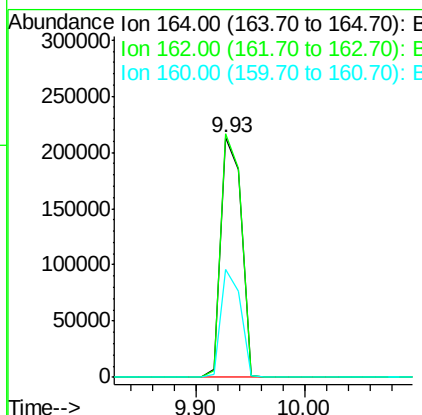
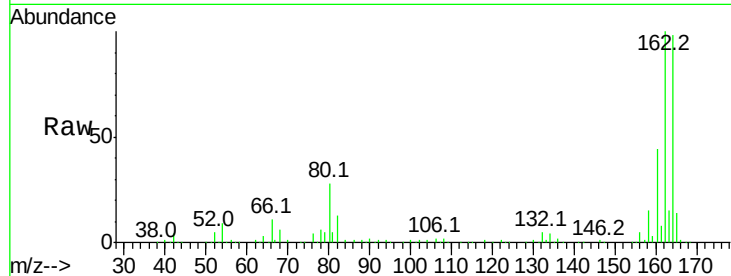




#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.93 min Scan# 686
 Delta R.T. -0.08 min
 Lab File: BF092880.D
 Acq: 9 Feb 2017 11:16

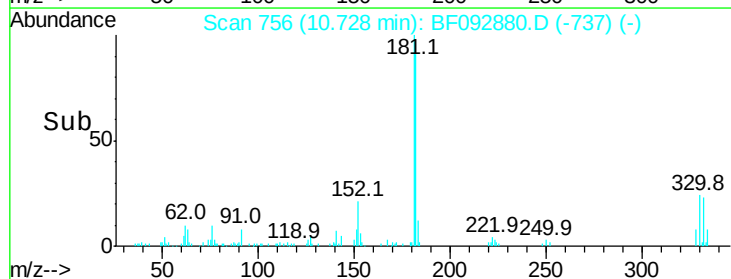
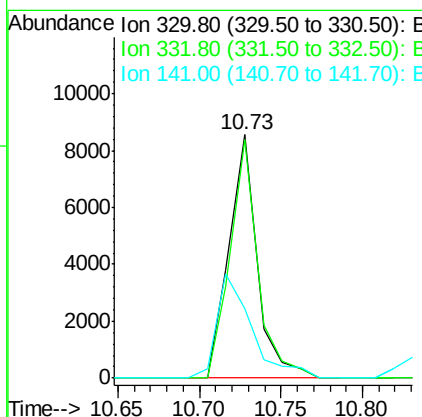
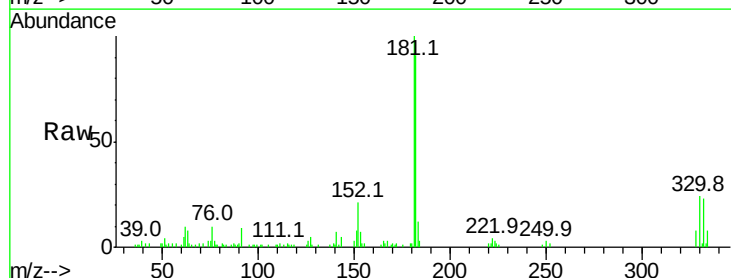
Instrument :
 BNA_F
 ClientSampleId :

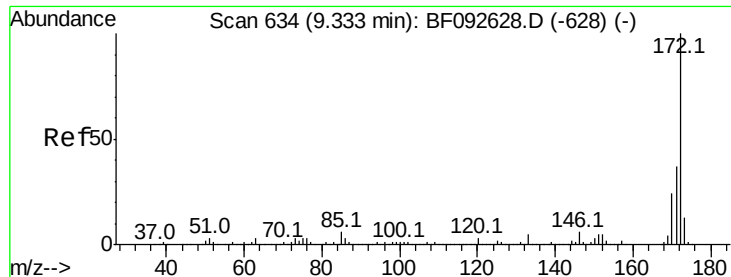
Tot Ion:164 Resp: 280336
 Ion Ratio Lower Upper
 164 100
 162 101.6 80.2 120.2
 160 44.9 36.9 55.3



#41
 2,4,6-Tribromophenol
 Concen: 5.07 ng
 RT: 10.73 min Scan# 756
 Delta R.T. -0.08 min
 Lab File: BF092880.D
 Acq: 9 Feb 2017 11:16

Tgt Ion:330 Resp: 10273
 Ion Ratio Lower Upper
 330 100
 332 95.9 77.4 116.2
 141 52.3 34.1 51.1#

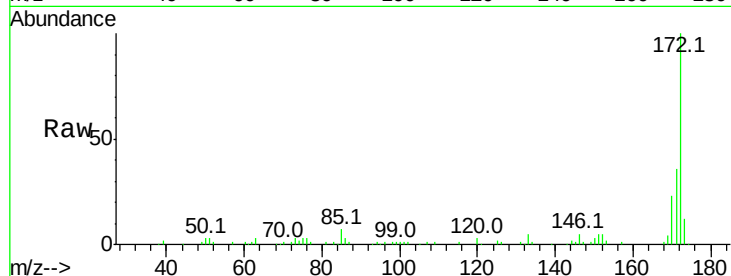




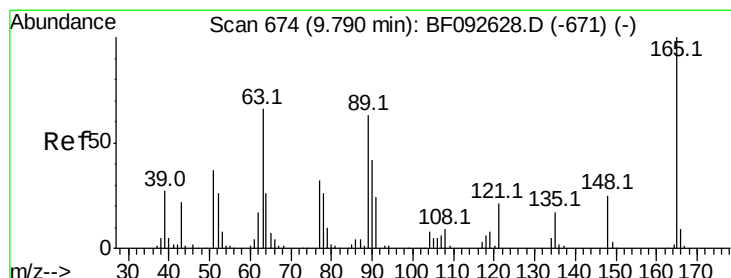
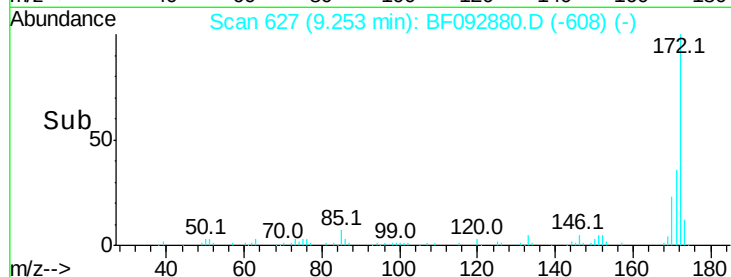
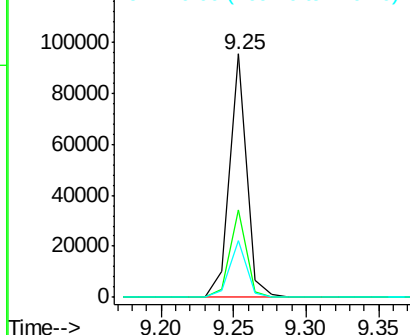
#44
 2-Fluorobiphenyl
 Concen: 5.05 ng
 RT: 9.25 min Scan# 627
 Delta R.T. -0.08 min
 Lab File: BF092880.D
 Acq: 9 Feb 2017 11:16

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:172 Resp: 78165
 Ion Ratio Lower Upper
 172 100
 171 35.8 29.4 44.0
 170 23.2 20.2 30.4

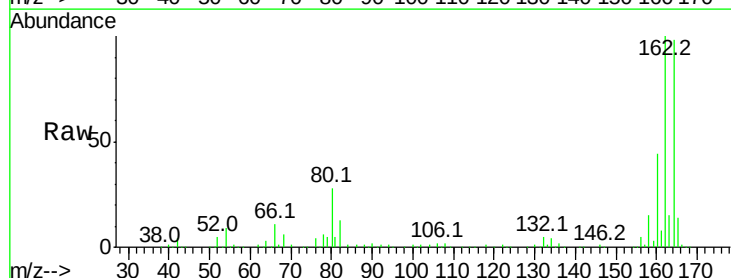


Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

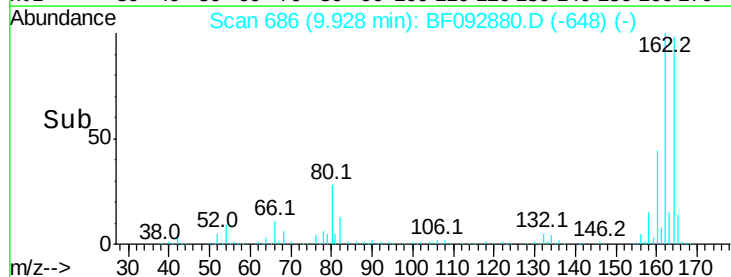
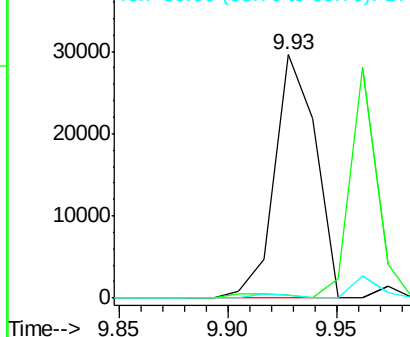


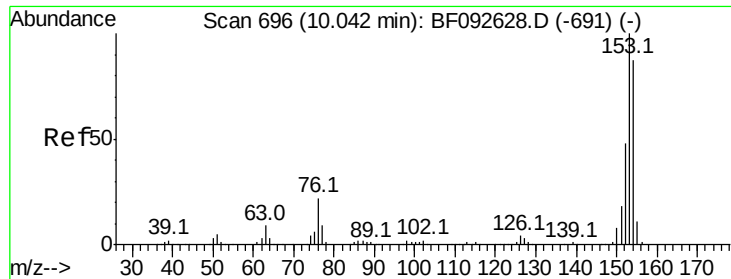
#50
 2,6-Dinitrotoluene
 Concen: 9.59 ng
 RT: 9.93 min Scan# 686
 Delta R.T. 0.14 min
 Lab File: BF092880.D
 Acq: 9 Feb 2017 11:16

Tgt Ion:165 Resp: 39106
 Ion Ratio Lower Upper
 165 100
 63 1.5 36.2 54.4#
 89 1.4 40.2 60.4#



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: 15.63 ng

RT: 9.96 min Scan# 689

Delta R.T. -0.08 min

Lab File: BF092880.D

Acq: 9 Feb 2017 11:16

Instrument :

BNA_F

ClientSampleId :

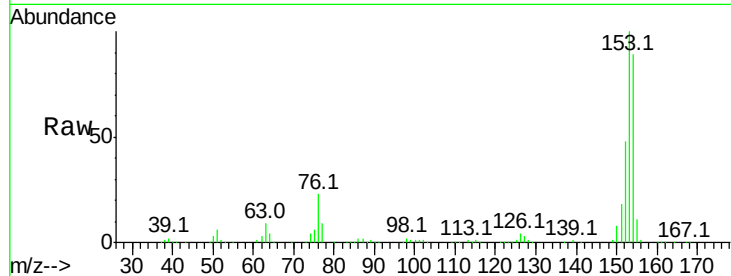
Tot Ion:154 Resp: 256370

Ion Ratio Lower Upper

154 100

153 112.4 88.6 133.0

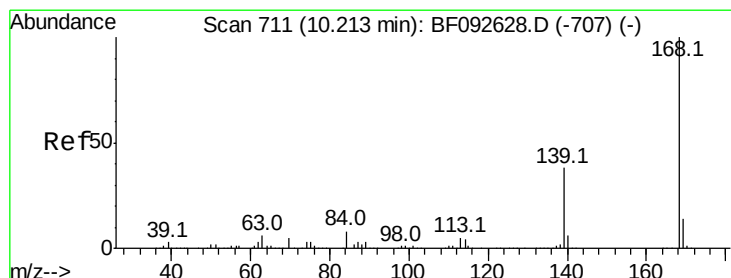
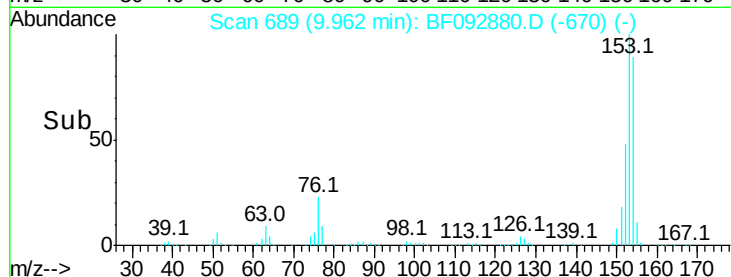
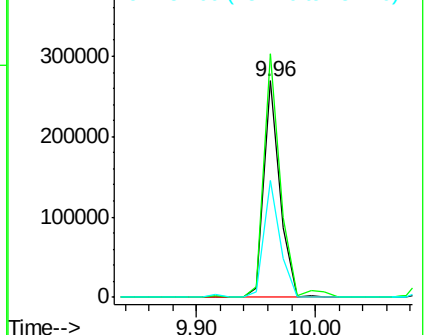
152 54.2 41.6 62.4



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 9.99 ng

RT: 10.13 min Scan# 704

Delta R.T. -0.08 min

Lab File: BF092880.D

Acq: 9 Feb 2017 11:16

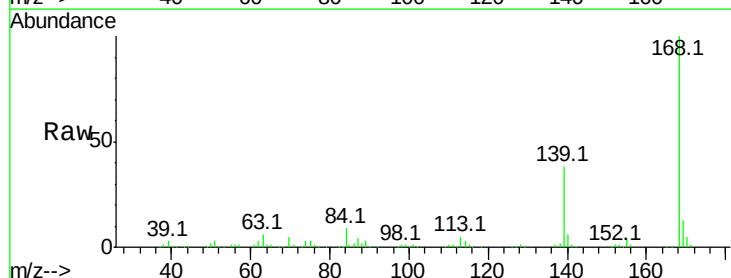
Tgt Ion:168 Resp: 219216

Ion Ratio Lower Upper

168 100

139 37.6 32.6 49.0

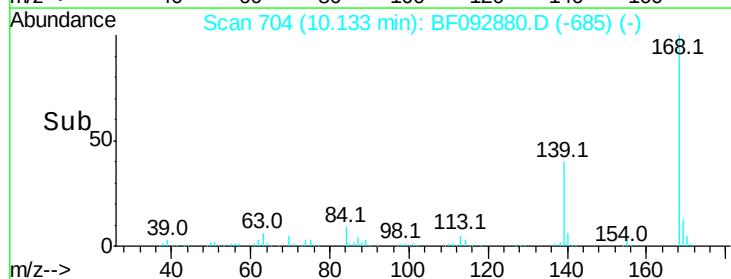
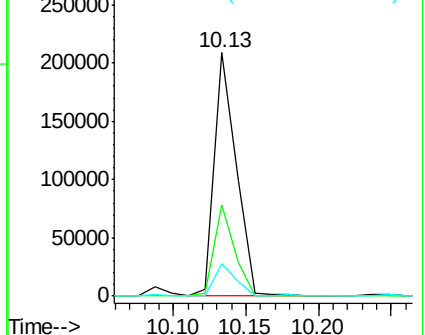
169 13.4 11.3 16.9

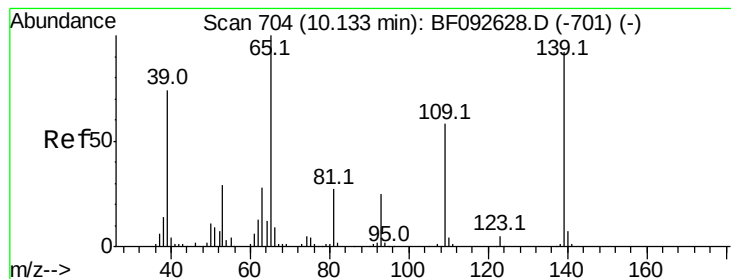


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





#55

4-Nitrophenol

Concen: 23.13 ng

RT: 10.13 min Scan# 704

Delta R.T. 0.00 min

Lab File: BF092880.D

Acq: 9 Feb 2017 11:16

Instrument :

BNA_F

ClientSampled :

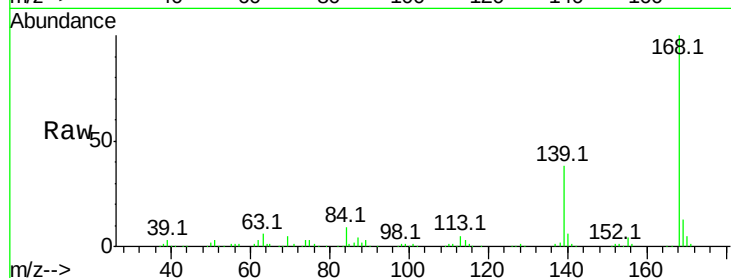
Tot Ion:139 Resp: 77742

Ion Ratio Lower Upper

139 100

109 0.8 52.2 92.2#

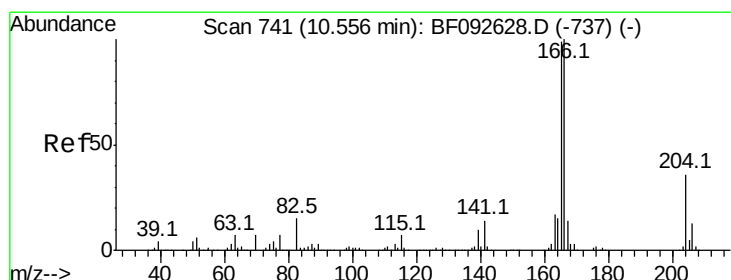
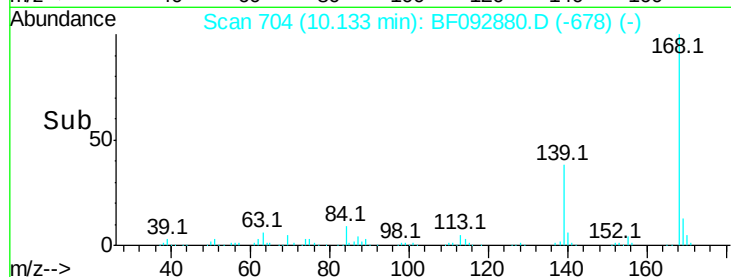
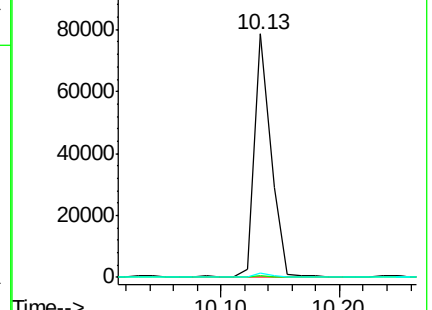
65 1.8 85.8 125.8#



Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF0



#57

Fluorene

Concen: 17.09 ng

RT: 10.48 min Scan# 734

Delta R.T. -0.08 min

Lab File: BF092880.D

Acq: 9 Feb 2017 11:16

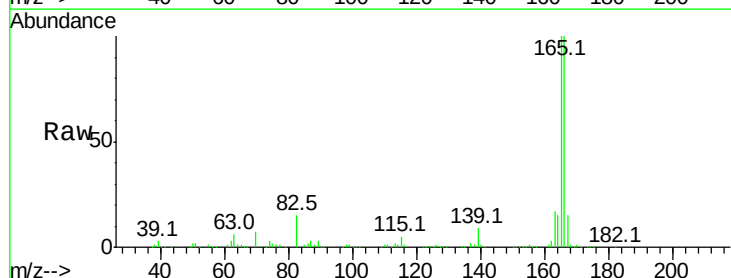
Tgt Ion:166 Resp: 288507

Ion Ratio Lower Upper

166 100

165 99.6 77.8 116.8

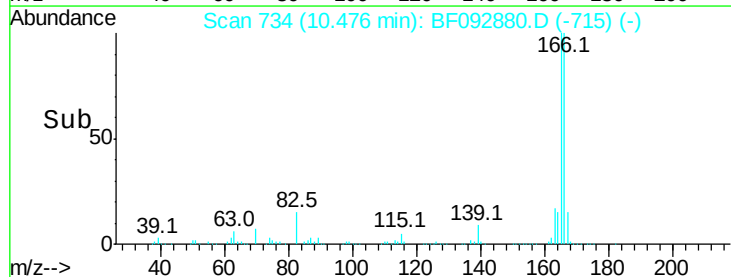
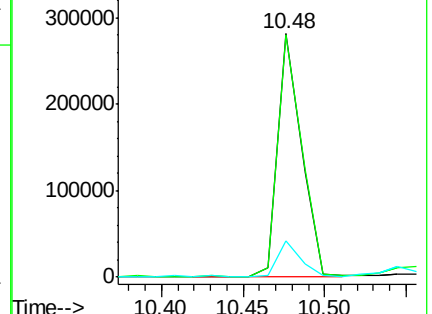
167 14.7 10.8 16.2

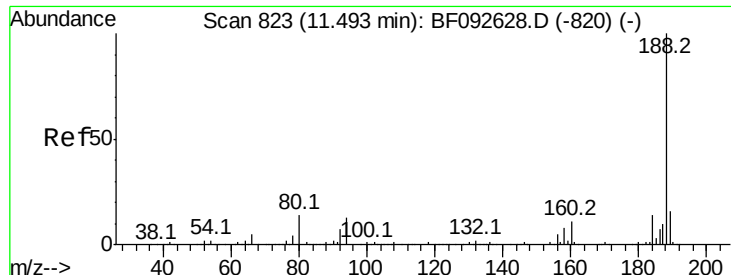


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

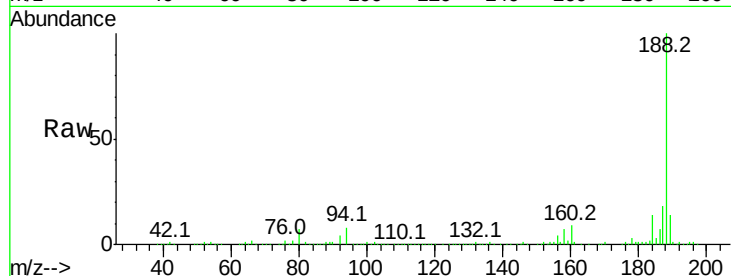




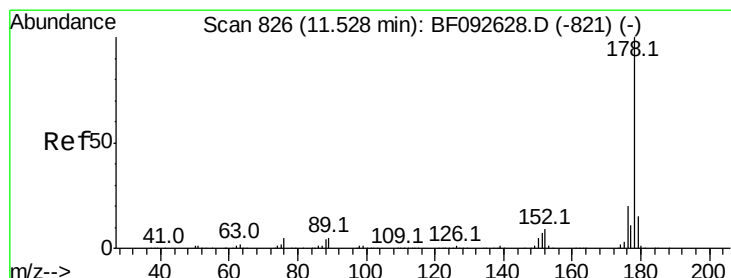
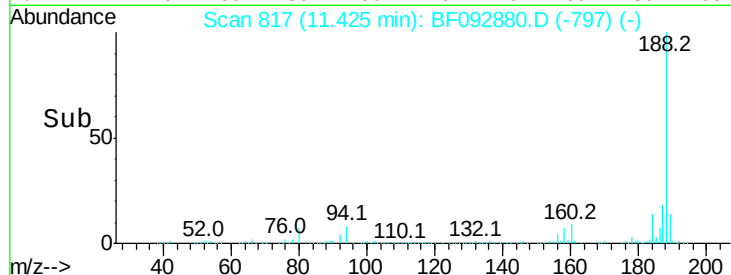
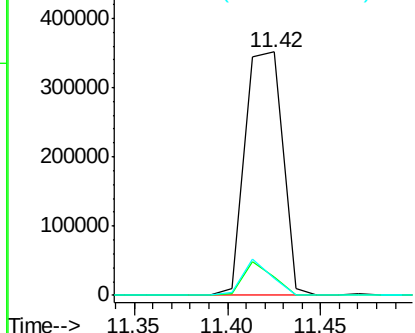
#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.42 min Scan# 817
 Delta R.T. -0.07 min
 Lab File: BF092880.D
 Acq: 9 Feb 2017 11:16

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:188 Resp: 491330
 Ion Ratio Lower Upper
 188 100
 94 7.7 10.0 15.0#
 80 7.1 11.2 16.8#

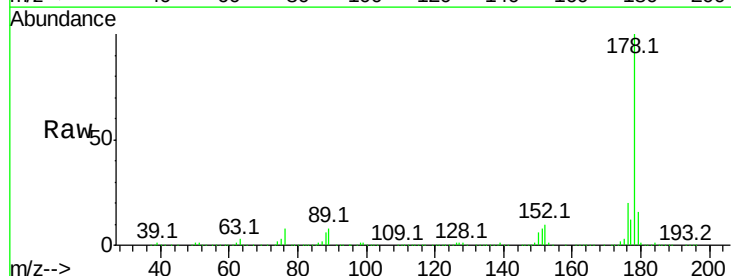


Abundance Ion 188.00 (187.70 to 188.70): E
 Ion 94.00 (93.70 to 94.70): BF0
 Ion 80.00 (79.70 to 80.70): BF0

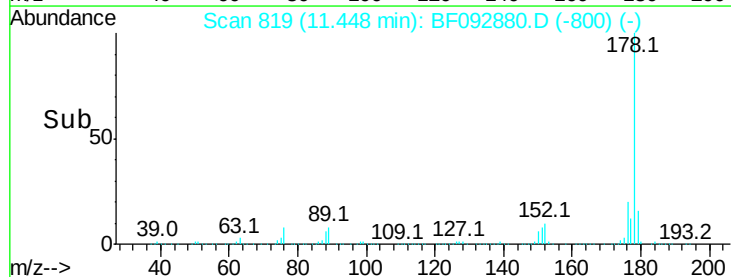
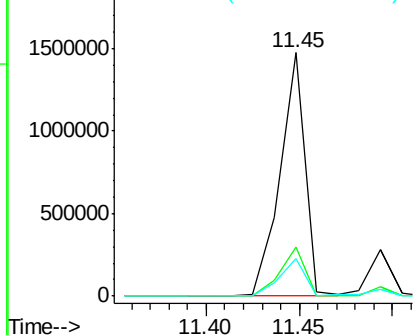


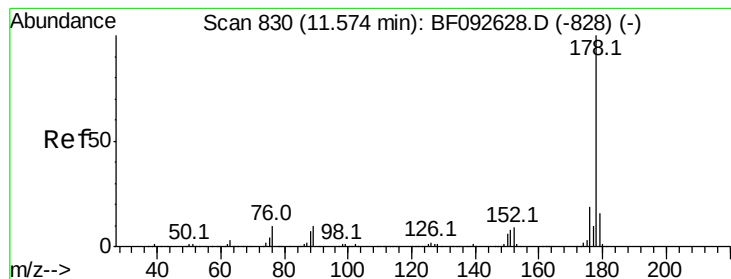
#70
 Phenanthrene
 Concen: 48.82 ng
 RT: 11.45 min Scan# 819
 Delta R.T. -0.08 min
 Lab File: BF092880.D
 Acq: 9 Feb 2017 11:16

Tgt Ion:178 Resp: 1374168
 Ion Ratio Lower Upper
 178 100
 176 20.0 16.6 25.0
 179 15.6 12.8 19.2



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: 8.44 ng

RT: 11.49 min Scan# 823

Delta R.T. -0.08 min

Lab File: BF092880.D

Acq: 9 Feb 2017 11:16

Instrument :

BNA_F

ClientSampleId :

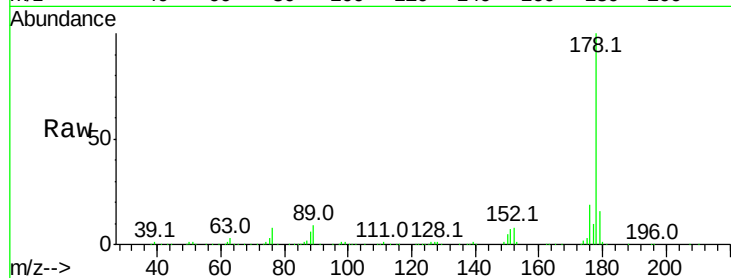
Tot Ion:178 Resp: 238629

Ion Ratio Lower Upper

178 100

176 19.1 15.9 23.9

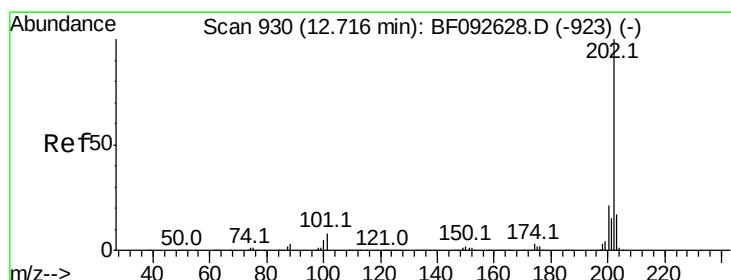
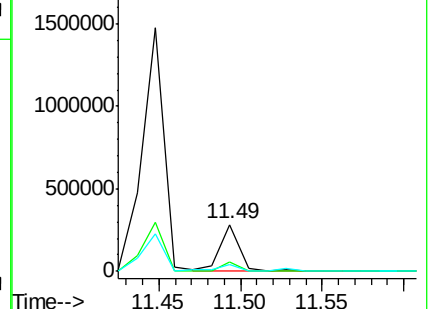
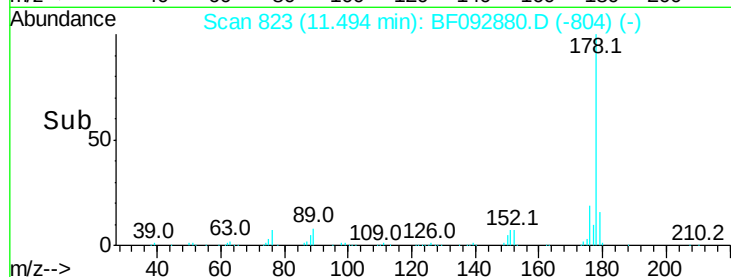
179 15.8 13.2 19.8



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: 53.37 ng

RT: 12.64 min Scan# 923

Delta R.T. -0.08 min

Lab File: BF092880.D

Acq: 9 Feb 2017 11:16

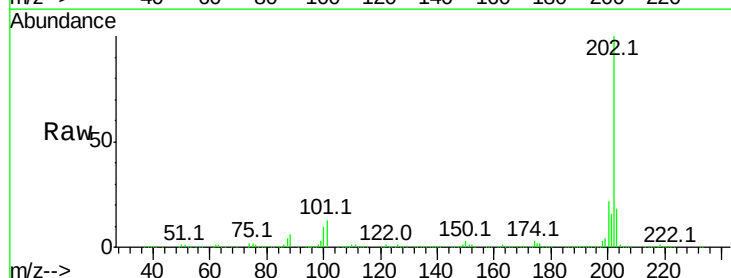
Tgt Ion:202 Resp: 1549549

Ion Ratio Lower Upper

202 100

101 13.3 0.0 34.6

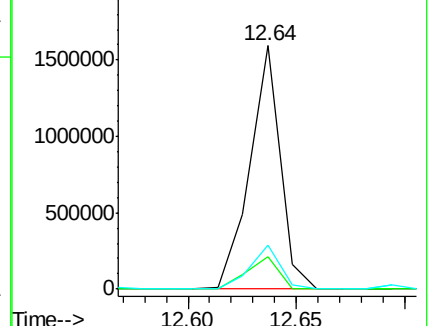
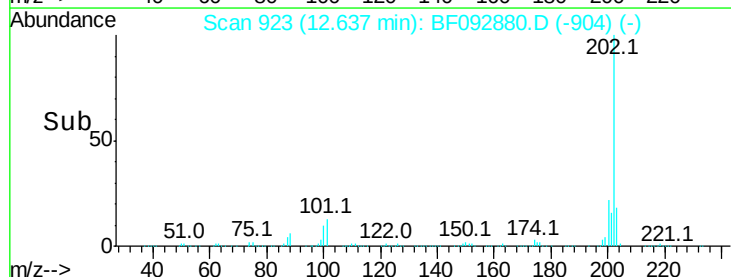
203 18.1 0.0 38.7

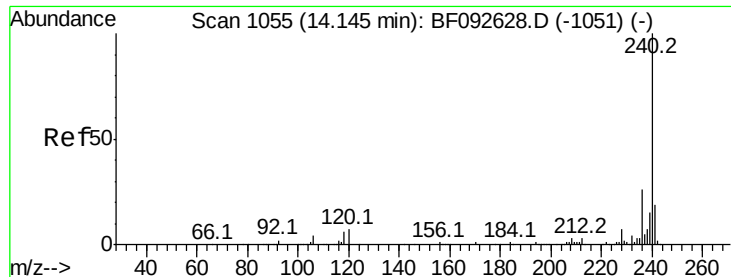


Abundance Ion 202.00 (201.70 to 202.70): E

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: 14.05 min Scan# 1047

Delta R.T. -0.09 min

Lab File: BF092880.D

Acq: 9 Feb 2017 11:16

Instrument :

BNA_F

ClientSampleId :

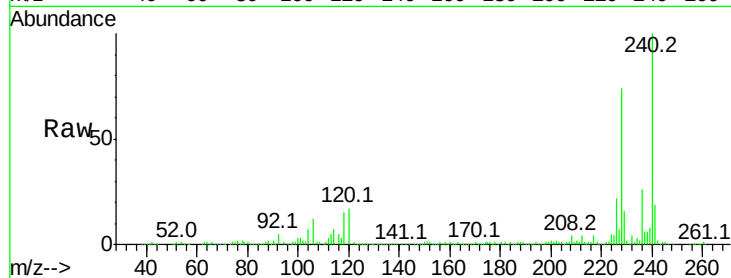
Tot Ion:240 Resp: 400274

Ion Ratio Lower Upper

240 100

120 17.2 12.9 19.3

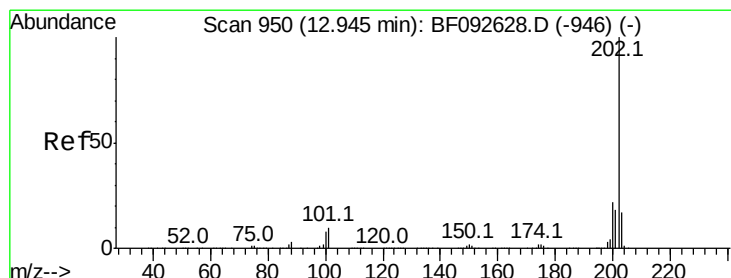
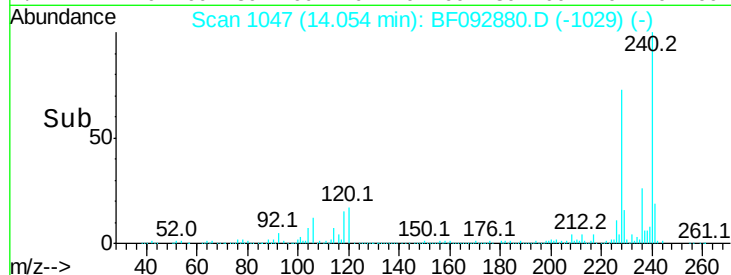
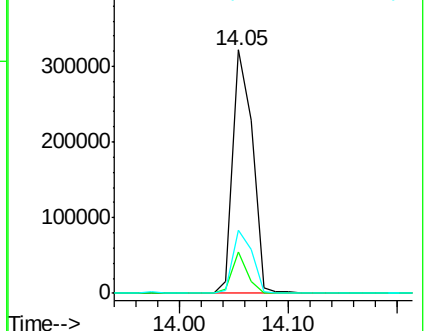
236 25.7 20.9 31.3



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: 46.07 ng

RT: 12.87 min Scan# 943

Delta R.T. -0.08 min

Lab File: BF092880.D

Acq: 9 Feb 2017 11:16

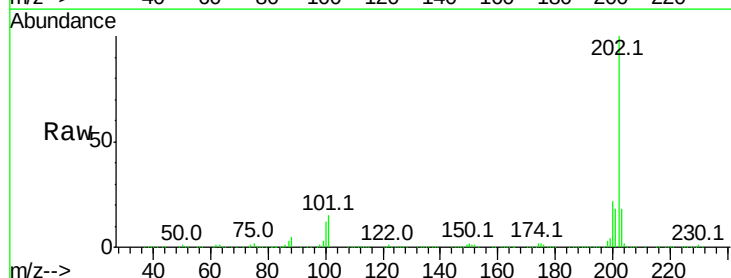
Tgt Ion:202 Resp: 1379975

Ion Ratio Lower Upper

202 100

200 22.0 17.7 26.5

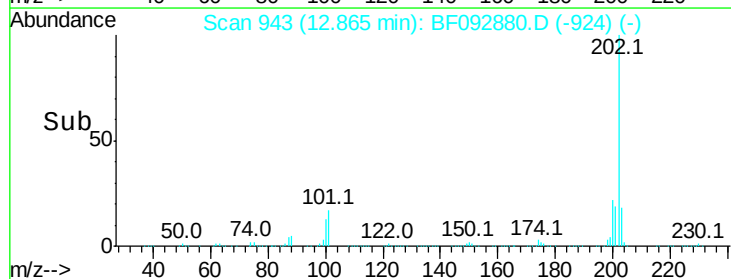
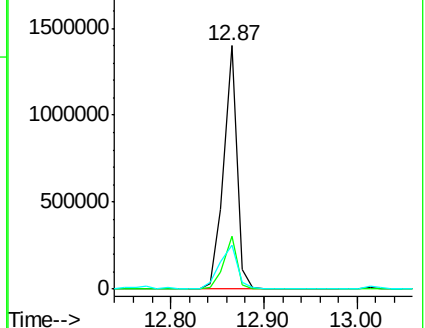
203 18.0 14.7 22.1

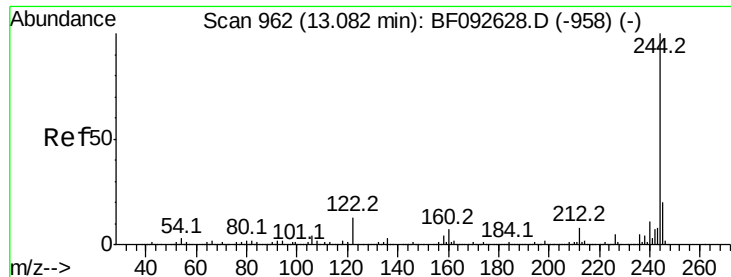


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

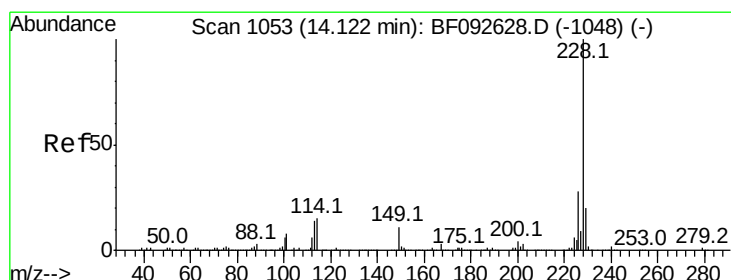
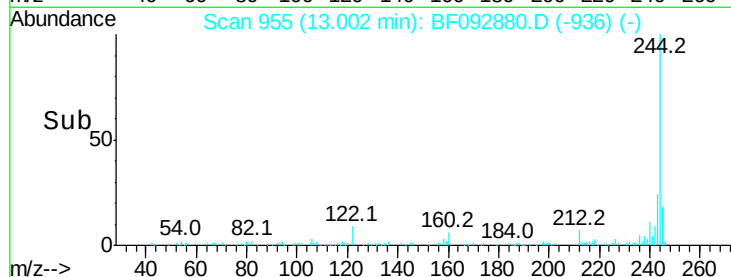
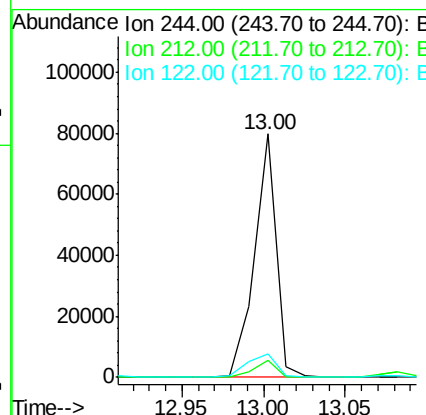
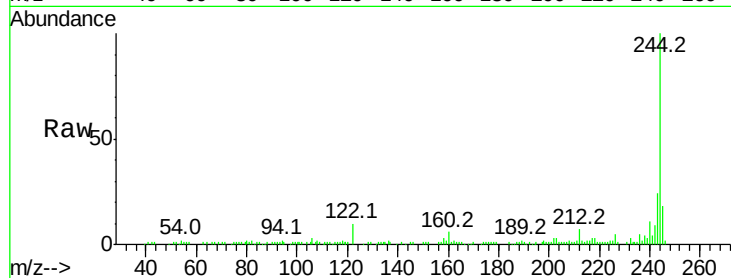




#78
 Terphenyl-d14
 Concen: 4.32 ng
 RT: 13.00 min Scan# 955
 Delta R.T. -0.08 min
 Lab File: BF092880.D
 Acq: 9 Feb 2017 11:16

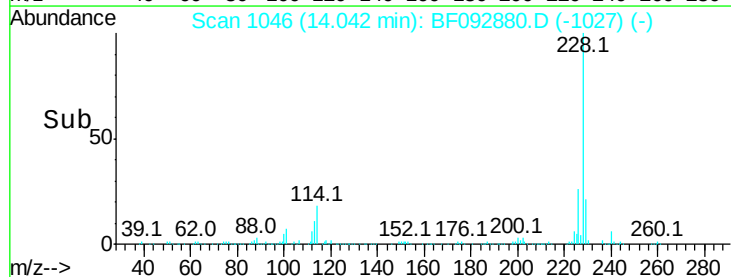
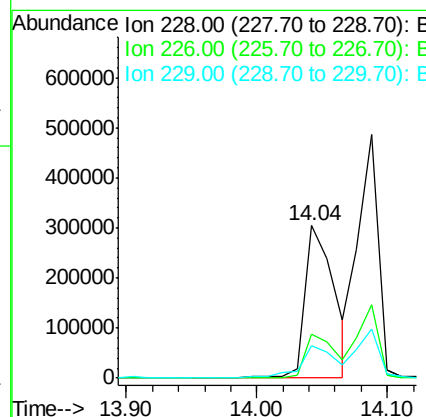
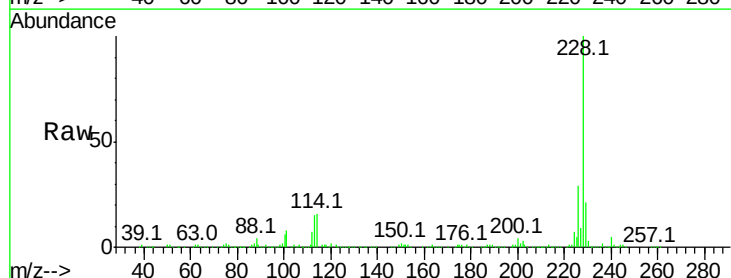
Instrument :
 BNA_F
 ClientSampleId :

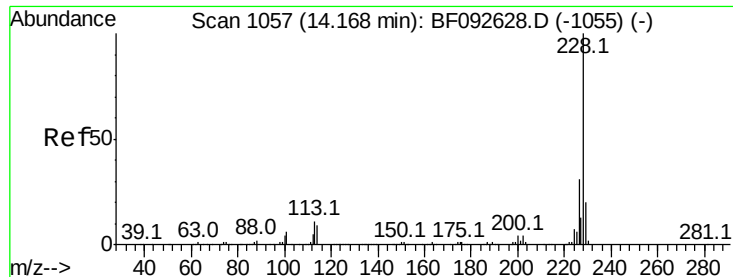
Tot Ion:244 Resp: 73616
 Ion Ratio Lower Upper
 244 100
 212 6.8 6.2 9.2
 122 9.8 11.4 17.2#



#80
 Benzo(a)anthracene
 Concen: 19.06 ng
 RT: 14.04 min Scan# 1046
 Delta R.T. -0.08 min
 Lab File: BF092880.D
 Acq: 9 Feb 2017 11:16

Tgt Ion:228 Resp: 466708
 Ion Ratio Lower Upper
 228 100
 226 28.6 22.4 33.6
 229 21.1 16.2 24.4





#82

Chrysene

Concen: 22.91 ng

RT: 14.09 min Scan# 1050

Delta R.T. -0.08 min

Lab File: BF092880.D

Acq: 9 Feb 2017 11:16

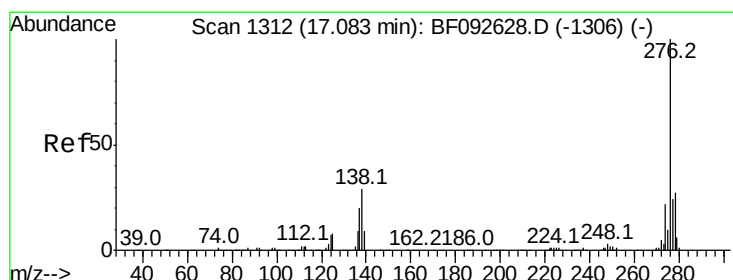
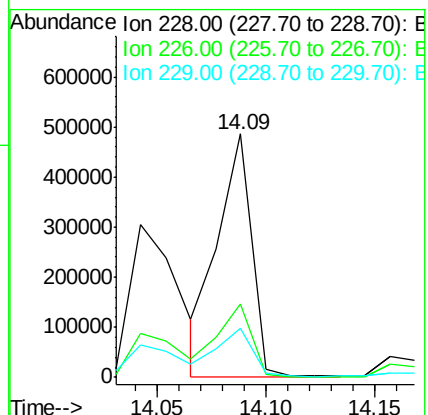
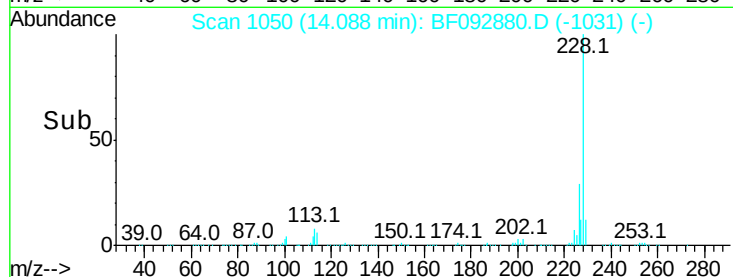
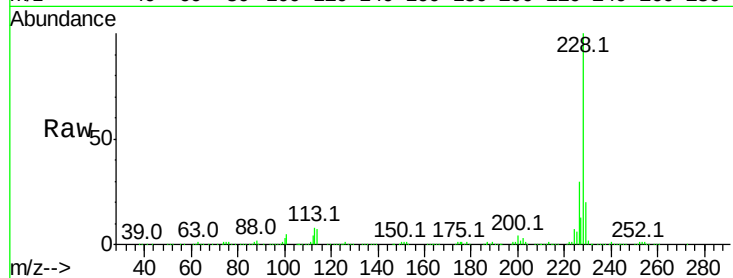
Instrument :

BNA_F

ClientSampleId :

Tot Ion:228 Resp: 525099

Ion	Ratio	Lower	Upper
228	100		
226	30.0	25.4	38.0
229	20.0	16.2	24.2



#85

Indeno(1,2,3-cd)pyrene

Concen: 2.79 ng

RT: 16.92 min Scan# 1298

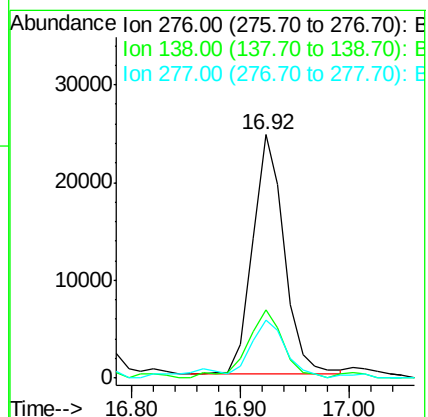
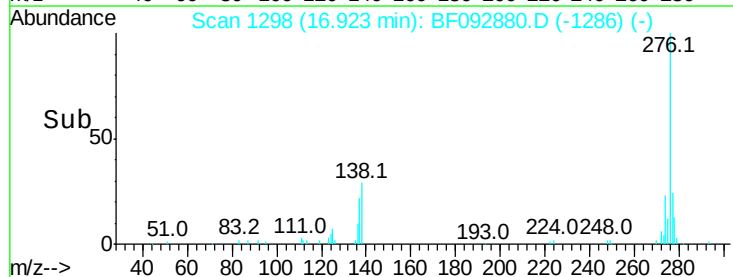
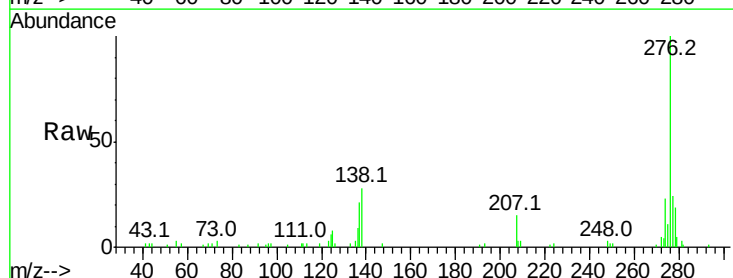
Delta R.T. -0.16 min

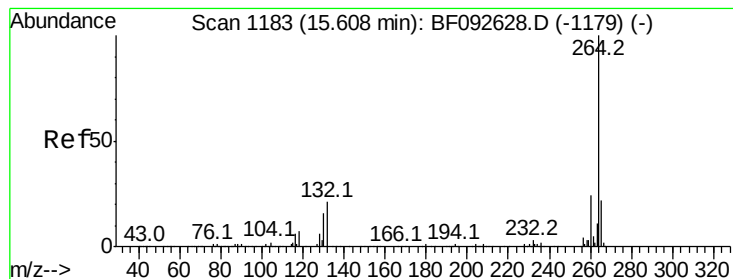
Lab File: BF092880.D

Acq: 9 Feb 2017 11:16

Tgt Ion:276 Resp: 49452

Ion	Ratio	Lower	Upper
276	100		
138	32.6	21.8	32.6
277	26.5	20.2	30.4





#86

Pervlene-d12

Concen: 20.00 ng

RT: 15.51 min Scan# 1174

Delta R.T. -0.10 min

Lab File: BF092880.D

Acq: 9 Feb 2017 11:16

Instrument :

BNA_F

ClientSampleId :

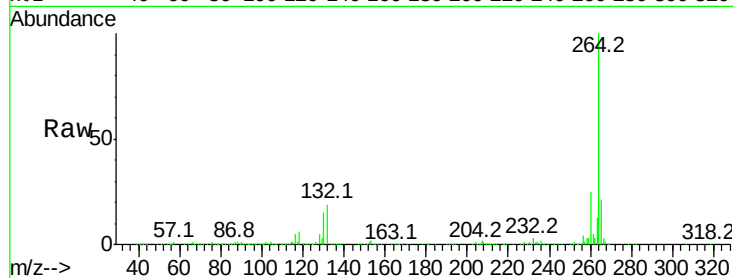
Tot Ion:264 Resp: 333222

Ion Ratio Lower Upper

264 100

260 24.6 19.2 28.8

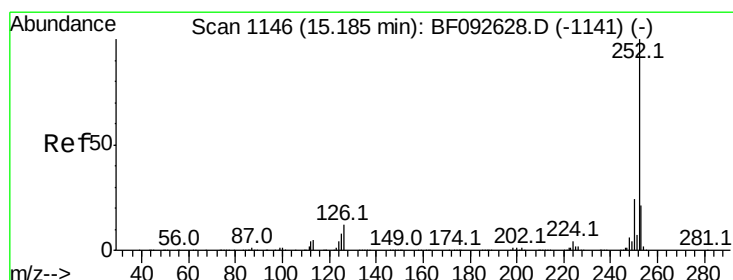
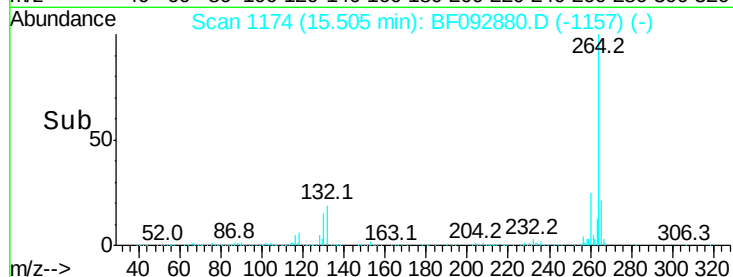
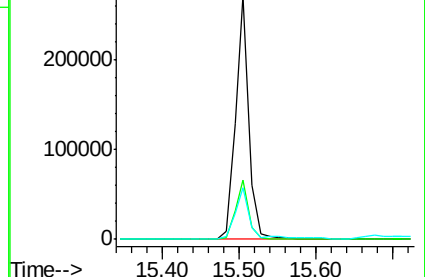
265 21.2 17.4 26.0



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: 20.50 ng

RT: 15.08 min Scan# 1137

Delta R.T. -0.10 min

Lab File: BF092880.D

Acq: 9 Feb 2017 11:16

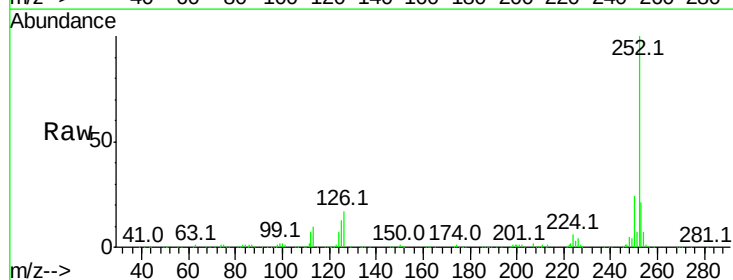
Tgt Ion:252 Resp: 449606

Ion Ratio Lower Upper

252 100

253 21.5 18.2 27.4

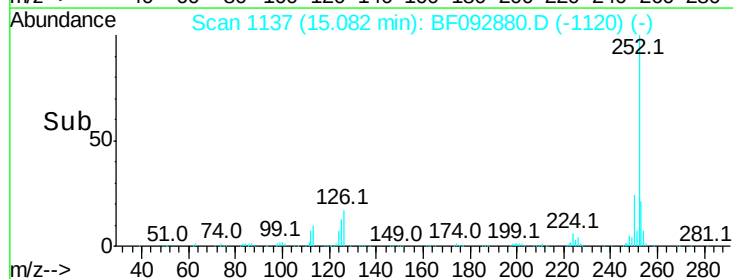
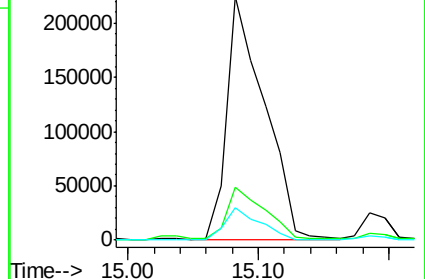
125 13.2 9.8 14.6

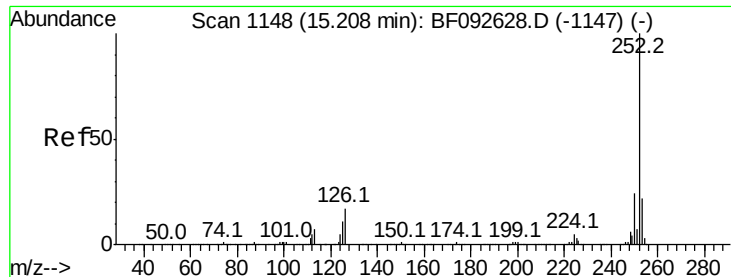


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

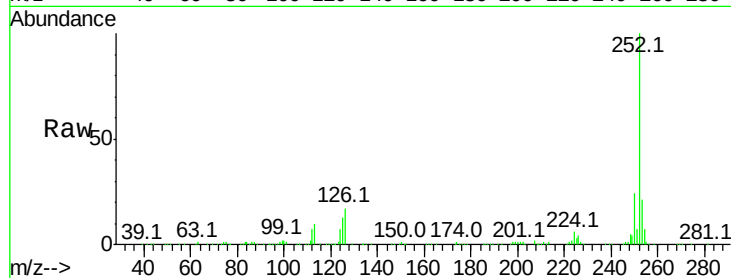




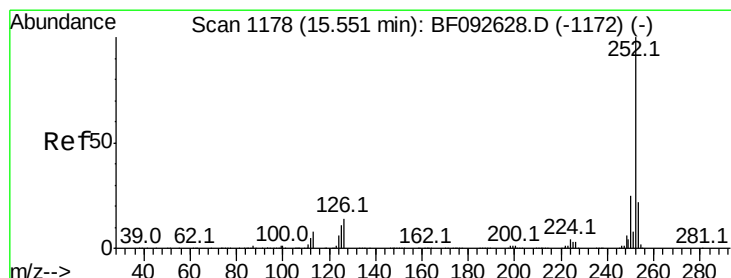
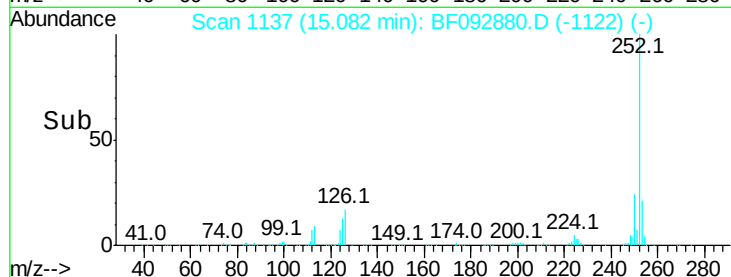
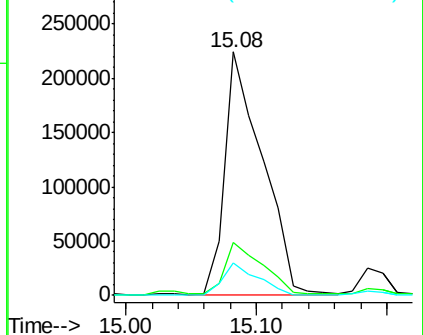
#88
Benzo(k)fluoranthene
Concen: 23.74 ng
RT: 15.08 min Scan# 1137
Delta R.T. -0.13 min
Lab File: BF092880.D
Acq: 9 Feb 2017 11:16

Instrument :
BNA_F
ClientSampleId :

Tot Ion:252 Resp: 449606
Ion Ratio Lower Upper
252 100
253 21.5 18.5 27.7
125 13.2 8.9 13.3

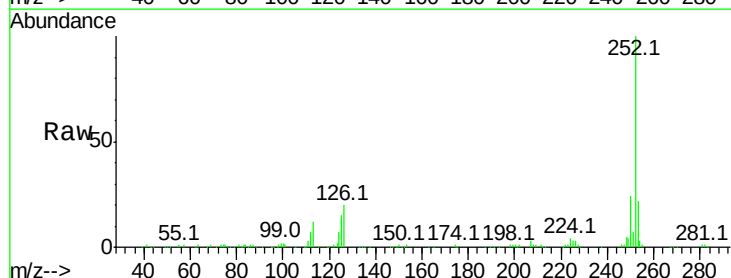


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

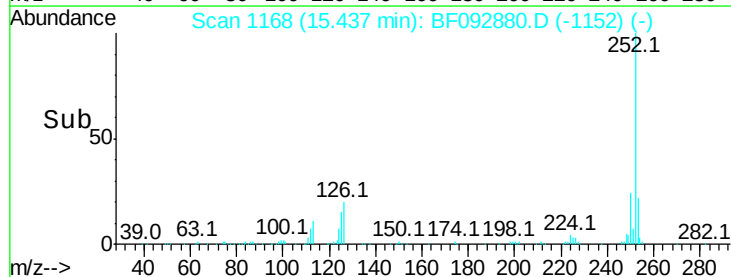
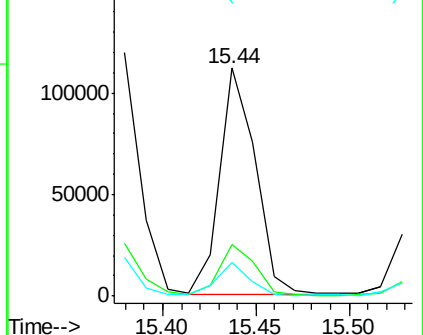


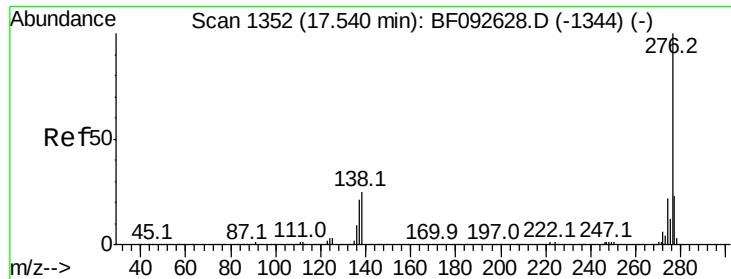
#89
Benzo(a)pyrene
Concen: 7.84 ng
RT: 15.44 min Scan# 1168
Delta R.T. -0.11 min
Lab File: BF092880.D
Acq: 9 Feb 2017 11:16

Tgt Ion:252 Resp: 148654
Ion Ratio Lower Upper
252 100
253 22.5 18.2 27.2
125 14.8 10.0 15.0



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





#91

Benzo(a,h,i)perylene

Concen: 2.59 ng

RT: 17.36 min Scan# 1336

Delta R.T. -0.18 min

Lab File: BF092880.D

Acq: 9 Feb 2017 11:16

Instrument :

BNA_F

ClientSampleId :

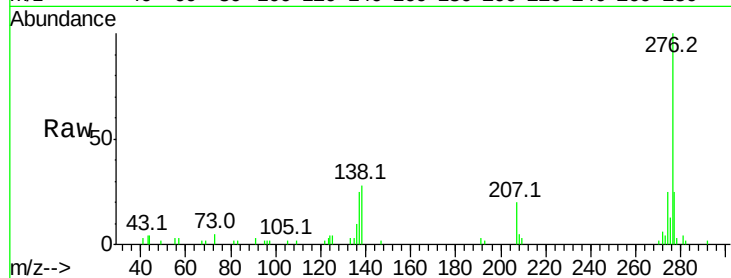
Tot Ion:276 Resp: 40087

Ion Ratio Lower Upper

276 100

277 25.4 19.2 28.8

138 28.0 16.0 24.0



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

