

Data Path : Z:\HPCHEM1\BNA F\DATA\BF042617\
 Data File : BF094662.D
 Acq On : 26 Apr 2017 22:11
 Operator : SJ/MA
 Sample : I2824-04 5X
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Apr 27 01:26:51 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF041717.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 17 14:59:23 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.75	152	122562	20.00	ng	-0.01
21) Naphthalene-d8	7.24	136	486820	20.00	ng	-0.02
38) Acenaphthene-d10	9.38	164	193083	20.00	ng	-0.02
63) Phenanthrene-d10	11.20	188	311655	20.00	ng	-0.02
75) Chrysene-d12	14.45	240	254945	20.00	ng	-0.01
86) Perylene-d12	16.08	264	203883	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	4.30	112	150068	20.31	ng	0.00
7) Phenol-d6	5.37	99	184994	21.24	ng	-0.02
23) Nitrobenzene-d5	6.40	82	106928	13.56	ng	-0.02
41) 2,4,6-Tribromophenol	10.35	330	28403	18.81	ng	-0.02
44) 2-Fluorobiphenyl	8.57	172	220113	16.77	ng	-0.02
78) Terphenyl-d14	13.18	244	138916	14.56	ng	-0.02

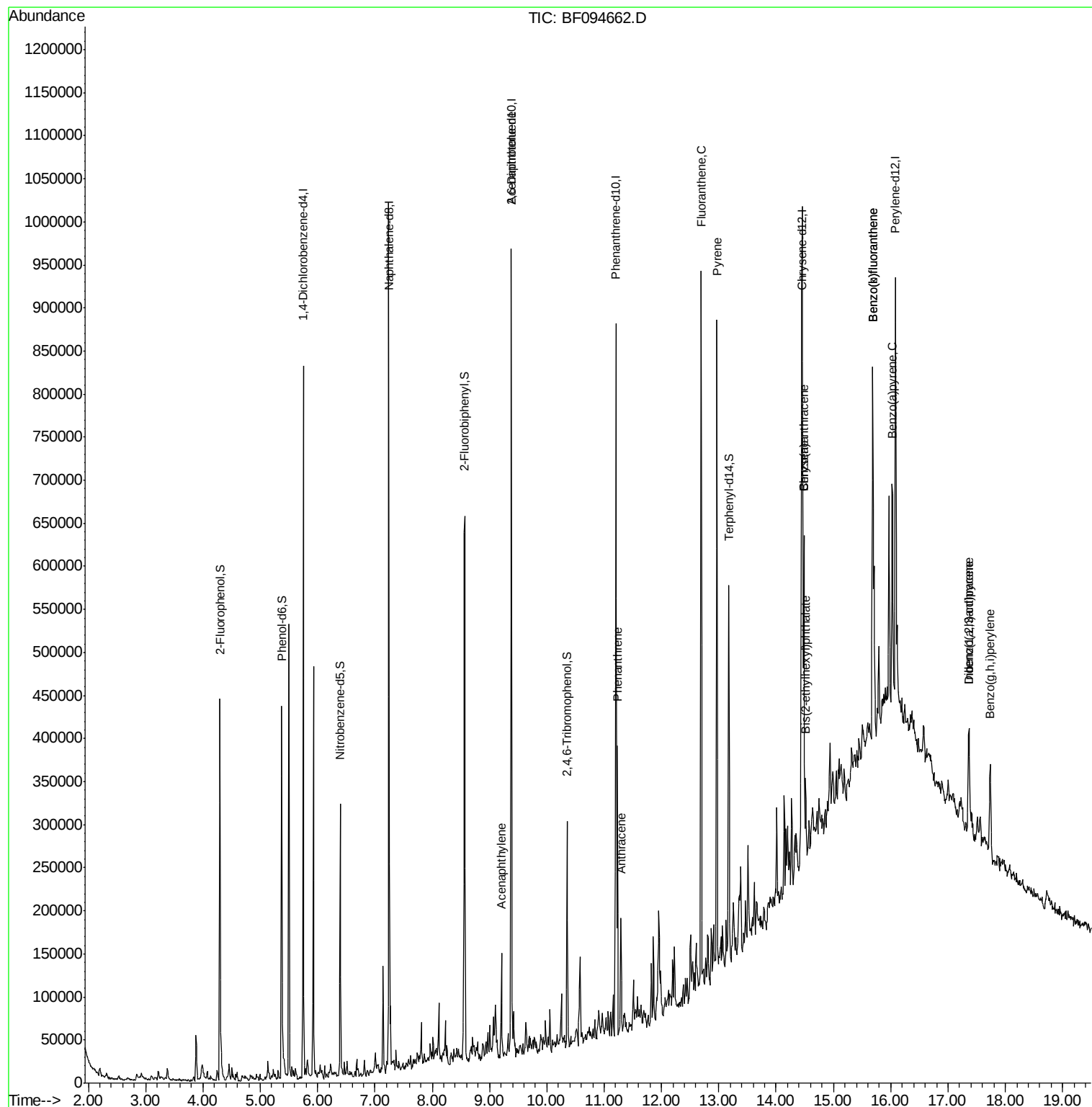
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
48) Acenaphthylene	9.21	152	54227	2.77	ng	98
50) 2,6-Dinitrotoluene	9.38	165	24885	7.70	ng	# 34
70) Phenanthrene	11.23	178	134450	7.66	ng	97
71) Anthracene	11.30	178	57896	3.19	ng	97
74) Fluoranthene	12.69	202	380802	20.94	ng	98
77) Pyrene	12.97	202	335297	18.82	ng	97
80) Benzo(a)anthracene	14.48	228	171450	11.57	ng	97
82) Chrysene	14.48	228	171450	12.66	ng	96
83) Bis(2-ethylhexyl)phthalate	14.51	149	22007	2.10	ng	# 99
85) Indeno(1,2,3-cd)pyrene	17.36	276	72157	5.60	ng	95
87) Benzo(b)fluoranthene	15.68	252	292306	23.44	ng	# 97
88) Benzo(k)fluoranthene	15.68	252	292306	24.77	ng	97
89) Benzo(a)pyrene	16.02	252	110125	9.49	ng	# 94
90) Dibenzo(a,h)anthracene	17.37	278	20782	2.16	ng	# 86
91) Benzo(a,h,i)perylene	17.74	276	73009	7.44	ng	99

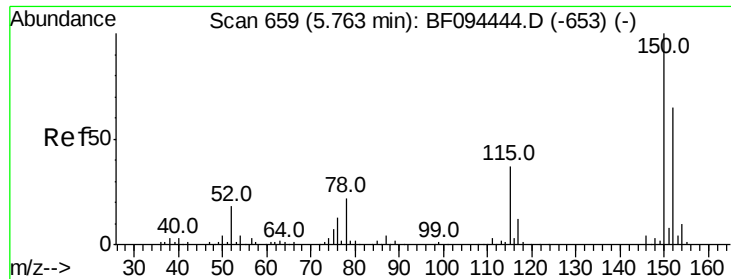
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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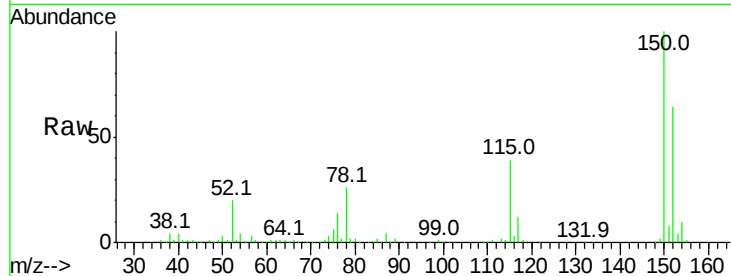


#1

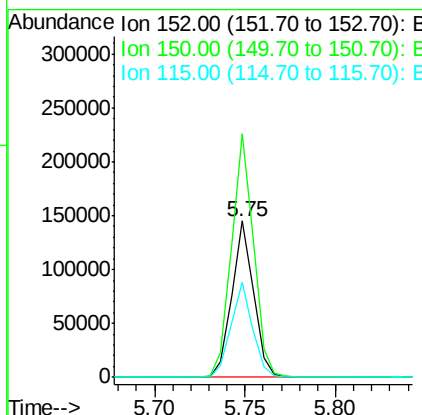
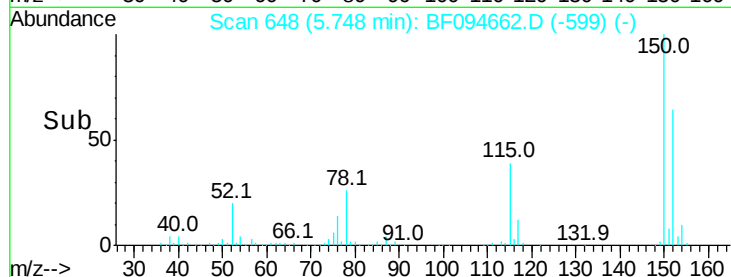
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 5.75 min Scan# 648
Delta R.T. -0.01 min
Lab File: BF094662.D
Acq: 26 Apr 2017 22:11

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 122562
Ion Ratio Lower Upper
152 100
150 155.8 126.2 189.2
115 61.2 52.2 78.2



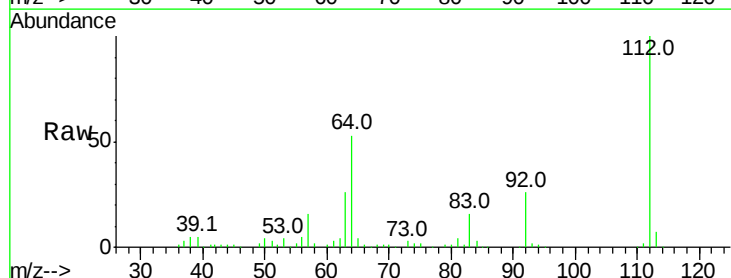
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



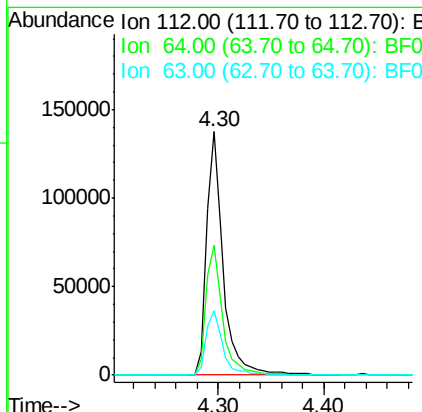
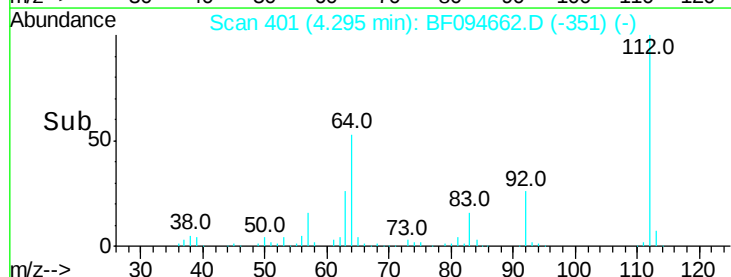
#5

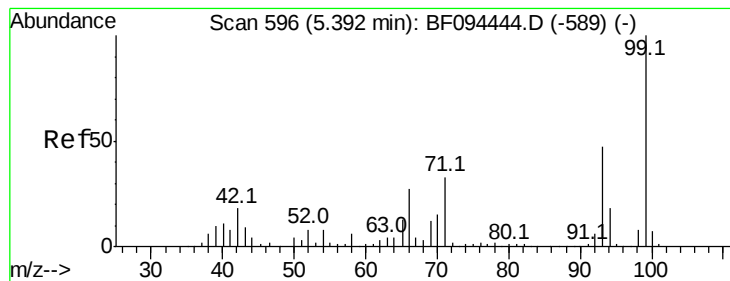
2-Fluorophenol
Concen: 20.31 ng
RT: 4.30 min Scan# 401
Delta R.T. -0.01 min
Lab File: BF094662.D
Acq: 26 Apr 2017 22:11

Tgt Ion:112 Resp: 150068
Ion Ratio Lower Upper
112 100
64 53.2 46.0 69.0
63 26.5 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: 21.24 ng

RT: 5.37 min Scan# 584

Delta R.T. -0.02 min

Lab File: BF094662.D

Acq: 26 Apr 2017 22:11

Instrument :

BNA_F

ClientSampleId :

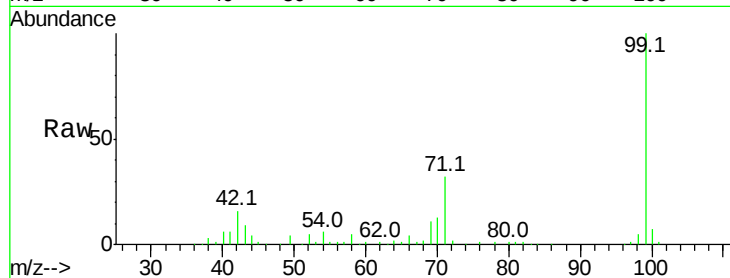
Tot Ion: 99 Resp: 184994

Ion Ratio Lower Upper

99 100

42 16.4 13.5 20.3

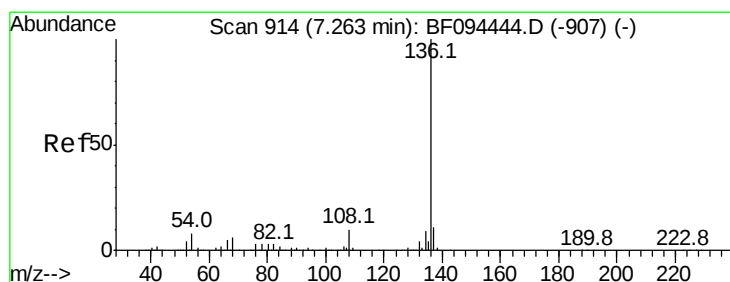
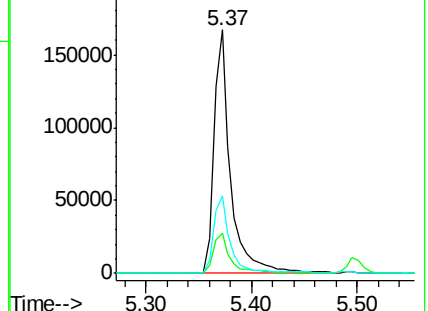
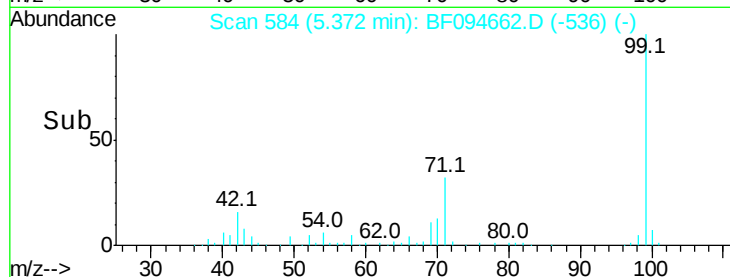
71 31.9 24.5 36.7



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.24 min Scan# 902

Delta R.T. -0.02 min

Lab File: BF094662.D

Acq: 26 Apr 2017 22:11

Tgt Ion: 136 Resp: 486820

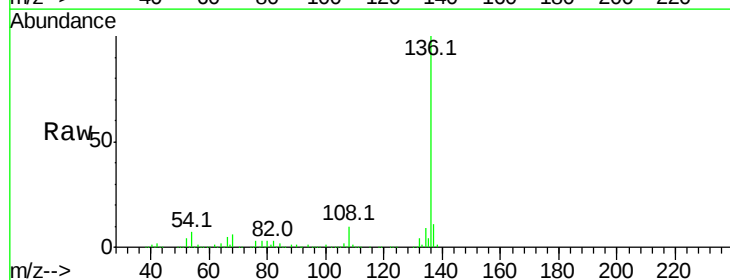
Ion Ratio Lower Upper

136 100

137 11.1 8.5 12.7

54 7.4 4.9 7.3#

68 5.8 4.1 6.1

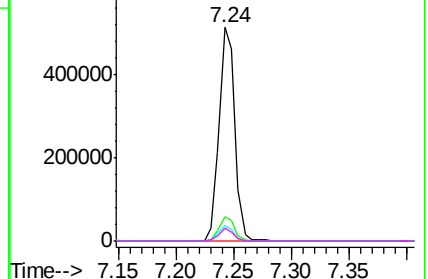
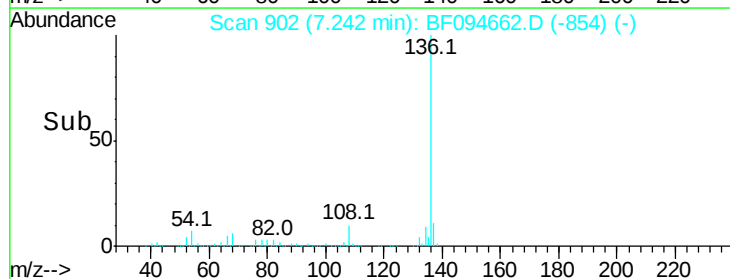


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0

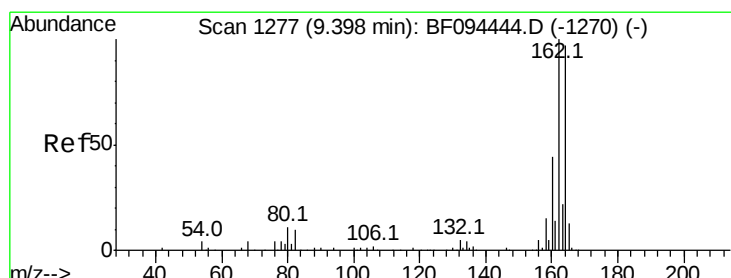
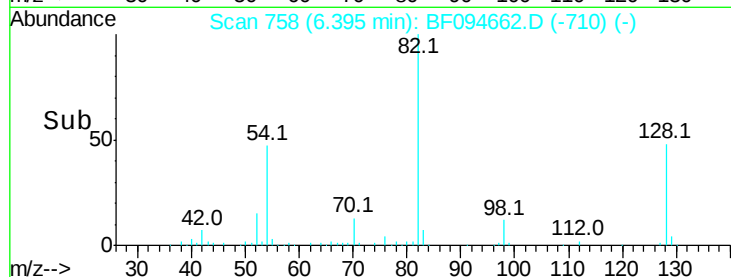
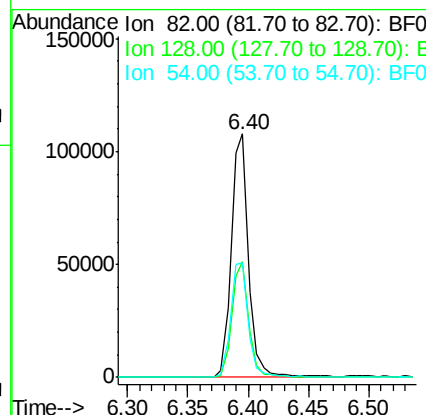
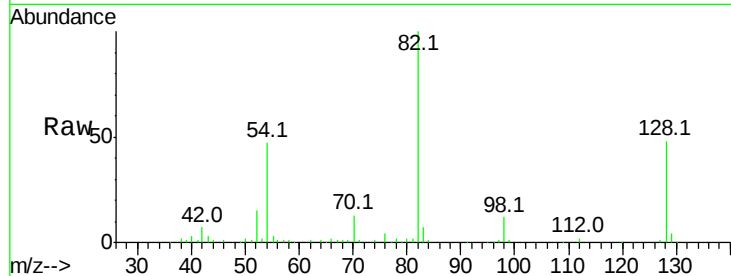




#23
 Nitrobenzene-d5
 Concen: 13.56 ng
 RT: 6.40 min Scan# 758
 Delta R.T. -0.02 min
 Lab File: BF094662.D
 Acq: 26 Apr 2017 22:11

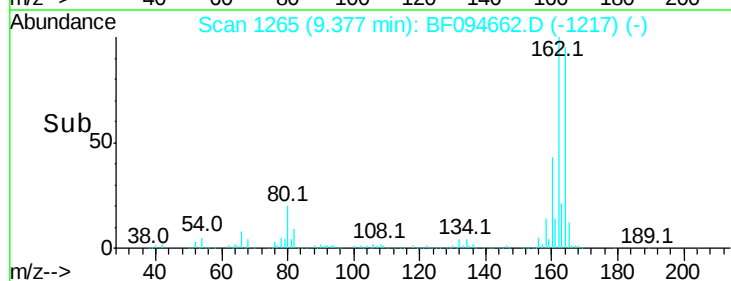
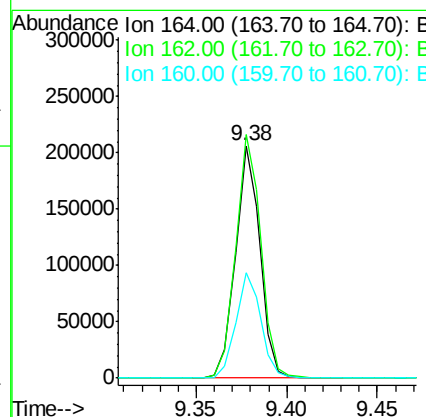
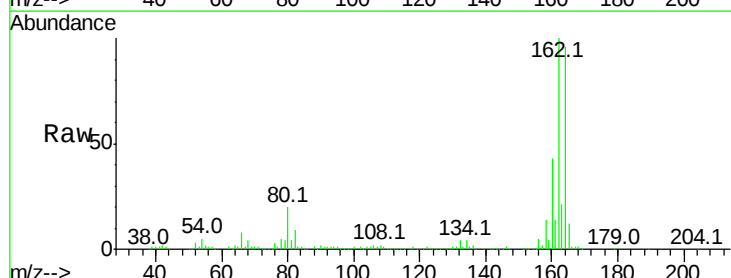
Instrument :
 BNA_F
 ClientSampled :

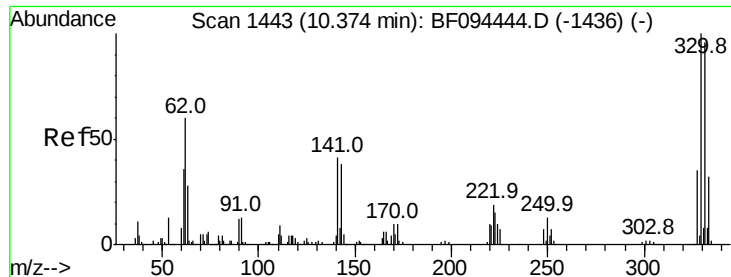
Tot Ion	Ratio	Lower	Upper
82	100		
128	47.6	34.0	51.0
54	47.0	42.2	63.2



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.38 min Scan# 1265
 Delta R.T. -0.02 min
 Lab File: BF094662.D
 Acq: 26 Apr 2017 22:11

Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.6	82.6	123.8
160	45.1	36.2	54.2

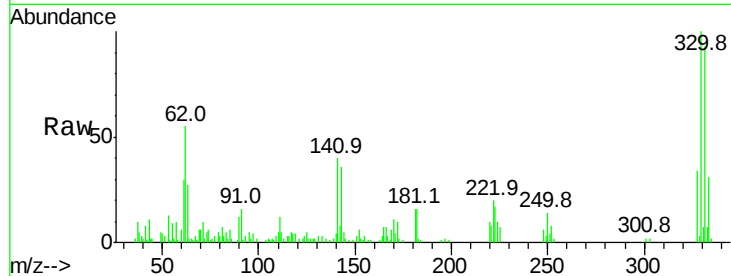




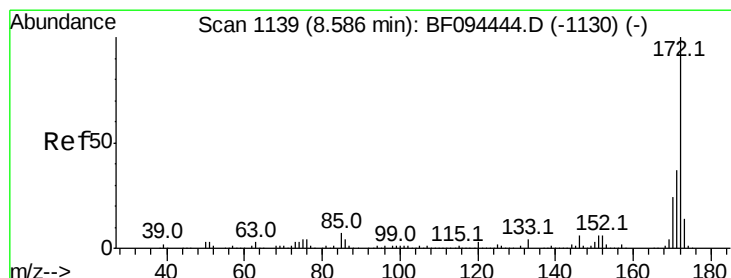
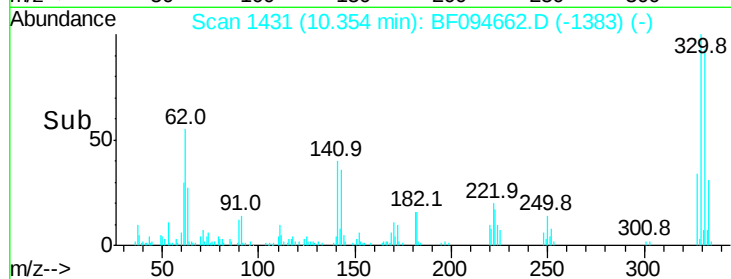
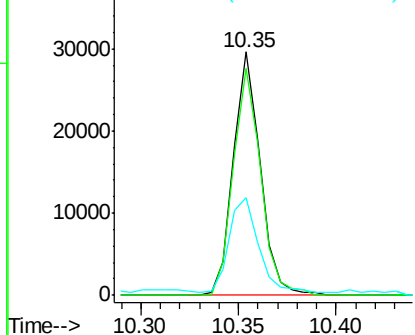
#41
 2,4,6-Tribromophenol
 Concen: 18.81 ng
 RT: 10.35 min Scan# 1431
 Delta R.T. -0.02 min
 Lab File: BF094662.D
 Acq: 26 Apr 2017 22:11

Instrument :
 BNA_F
 ClientSampled :

Tot Ion:330 Resp: 28403
 Ion Ratio Lower Upper
 330 100
 332 94.8 76.6 115.0
 141 45.0 31.4 47.2

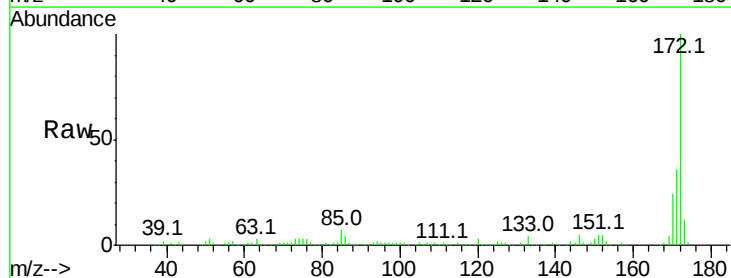


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

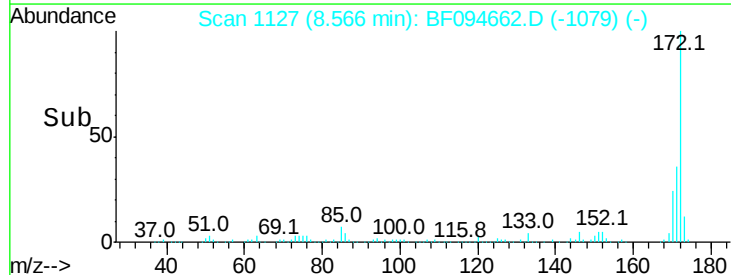
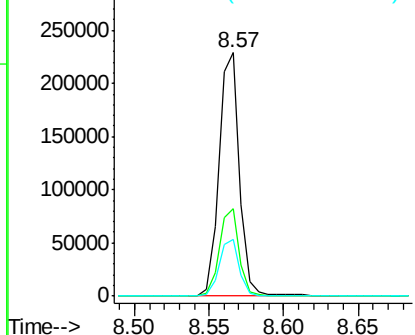


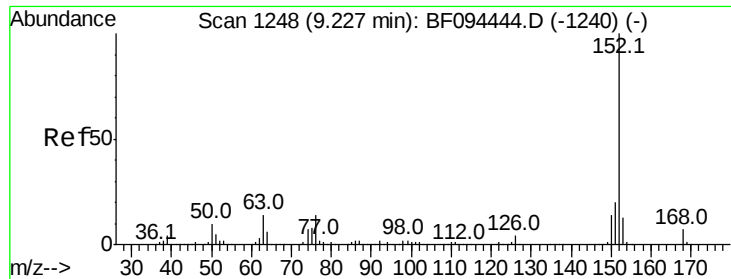
#44
 2-Fluorobiphenyl
 Concen: 16.77 ng
 RT: 8.57 min Scan# 1127
 Delta R.T. -0.02 min
 Lab File: BF094662.D
 Acq: 26 Apr 2017 22:11

Tgt Ion:172 Resp: 220113
 Ion Ratio Lower Upper
 172 100
 171 35.9 29.6 44.4
 170 23.5 19.8 29.8



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





#48

Acenaphthylene

Concen: 2.77 ng

RT: 9.21 min Scan# 1236

Delta R.T. -0.02 min

Lab File: BF094662.D

Acq: 26 Apr 2017 22:11

Instrument :

BNA_F

ClientSampleId :

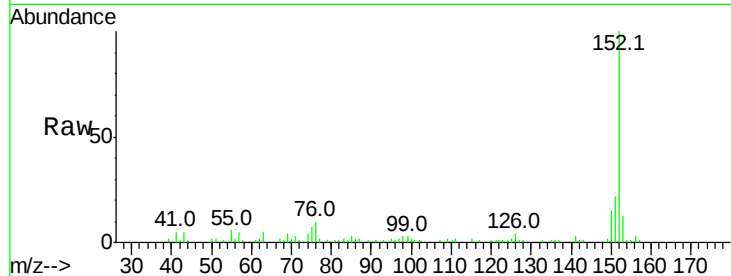
Tot Ion:152 Resp: 54227

Ion Ratio Lower Upper

152 100

151 21.7 16.8 25.2

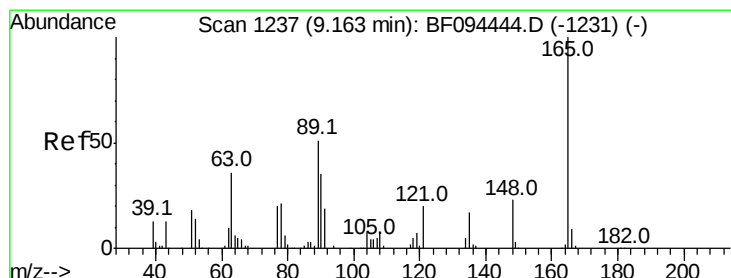
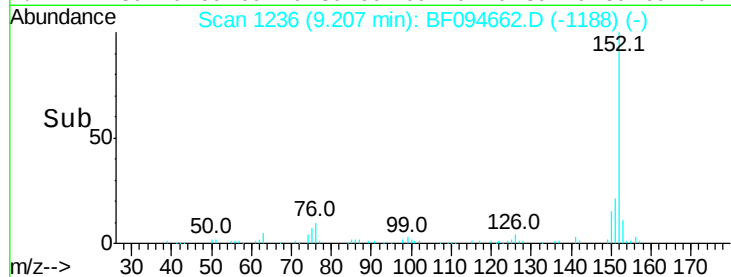
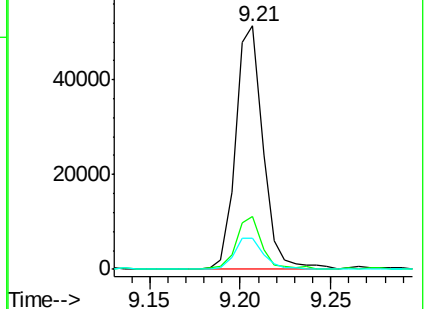
153 12.7 10.8 16.2



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



#50

2,6-Dinitrotoluene

Concen: 7.70 ng

RT: 9.38 min Scan# 1265

Delta R.T. 0.21 min

Lab File: BF094662.D

Acq: 26 Apr 2017 22:11

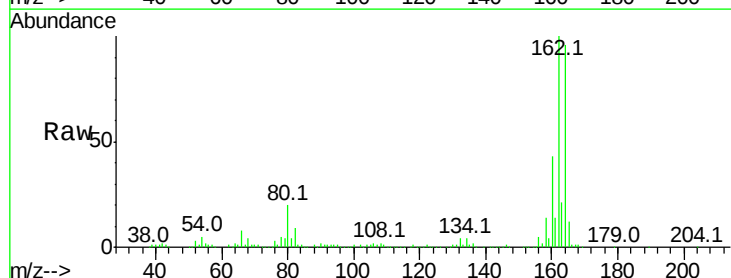
Tgt Ion:165 Resp: 24885

Ion Ratio Lower Upper

165 100

63 1.4 34.3 51.5#

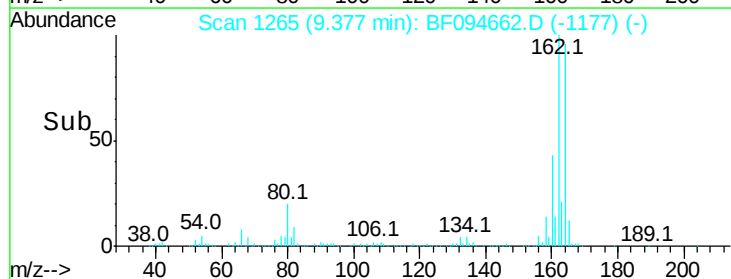
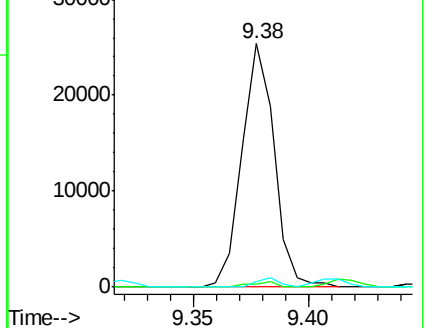
89 2.2 37.1 55.7#

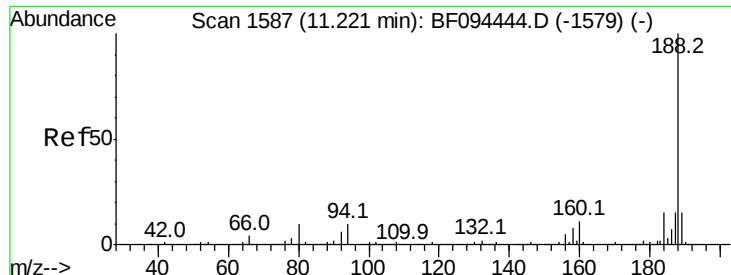


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

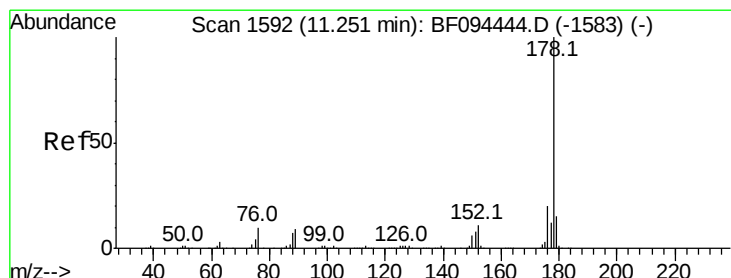
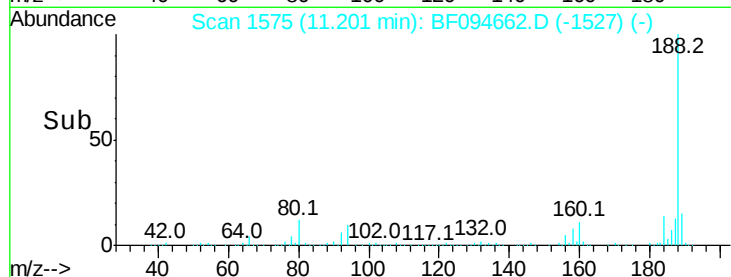
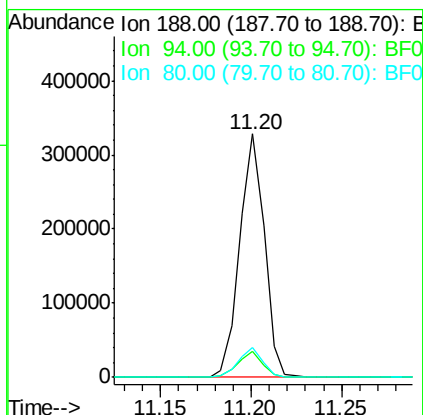
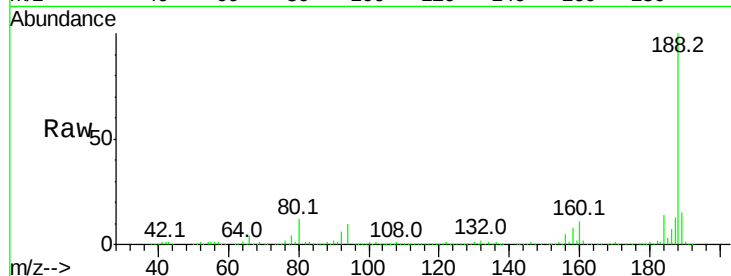




#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.20 min Scan# 1575
 Delta R.T. -0.02 min
 Lab File: BF094662.D
 Acq: 26 Apr 2017 22:11

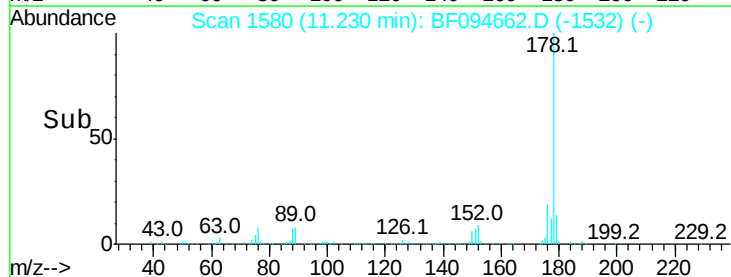
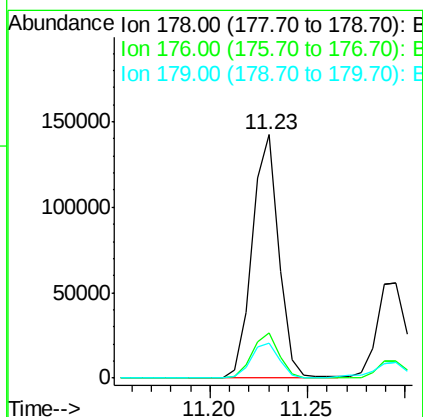
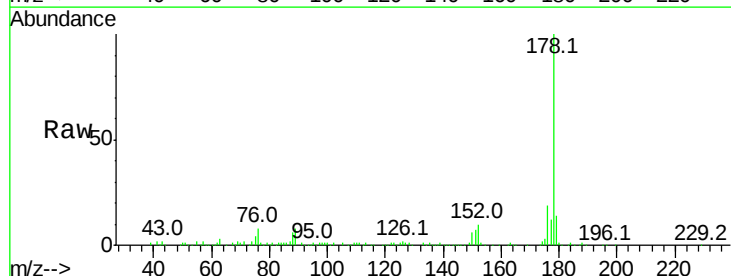
Instrument :
 BNA_F
 ClientSampleId :

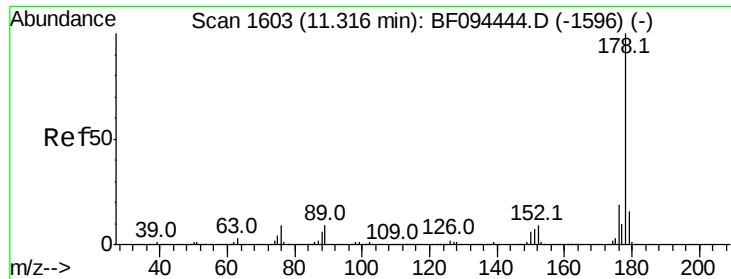
Tot Ion:188 Resp: 311655
 Ion Ratio Lower Upper
 188 100
 94 10.5 9.4 14.2
 80 12.0 10.2 15.2



#70
 Phenanthrene
 Concen: 7.66 ng
 RT: 11.23 min Scan# 1580
 Delta R.T. -0.02 min
 Lab File: BF094662.D
 Acq: 26 Apr 2017 22:11

Tgt Ion:178 Resp: 134450
 Ion Ratio Lower Upper
 178 100
 176 18.7 16.2 24.4
 179 14.5 12.6 19.0

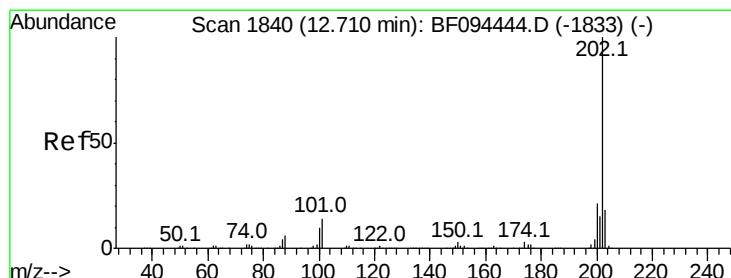
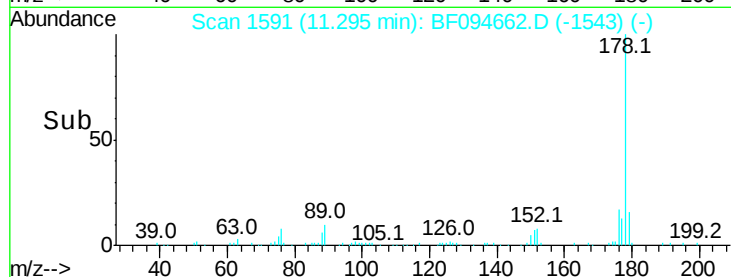
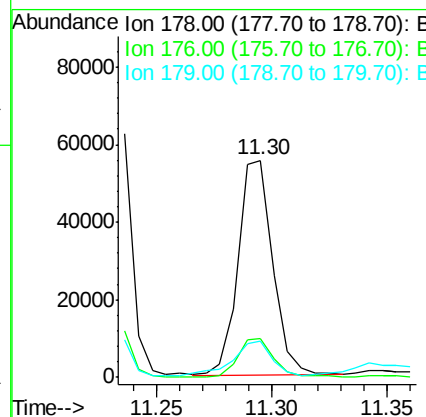
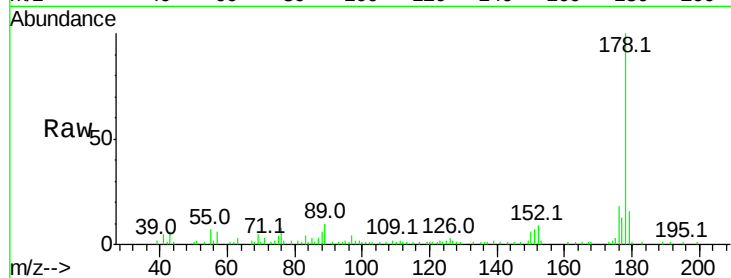




#71
 Anthracene
 Concen: 3.19 ng
 RT: 11.30 min Scan# 1591
 Delta R.T. -0.02 min
 Lab File: BF094662.D
 Acq: 26 Apr 2017 22:11

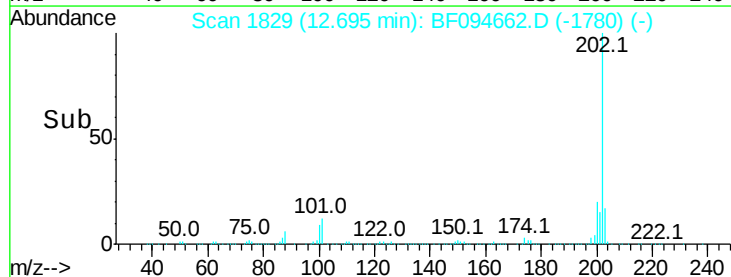
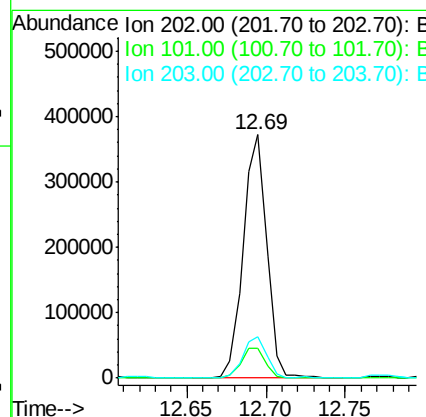
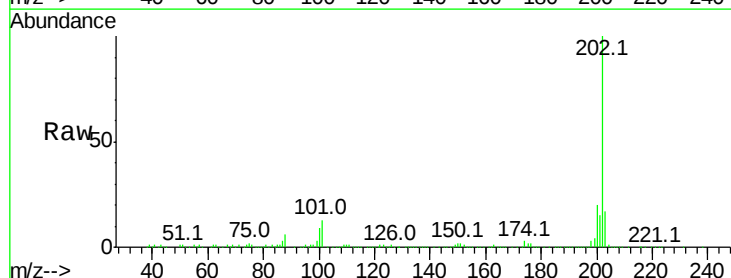
Instrument :
 BNA_F
 ClientSampleId :

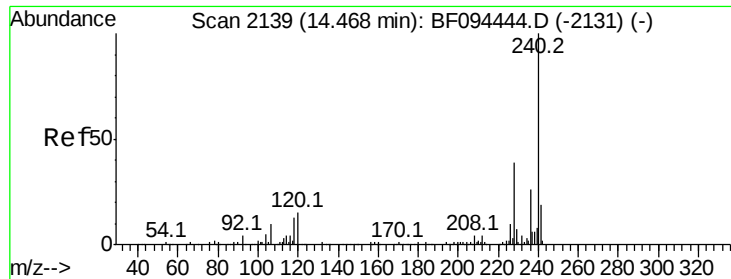
Tot Ion:178 Resp: 57896
 Ion Ratio Lower Upper
 178 100
 176 17.7 15.8 23.8
 179 16.5 12.7 19.1



#74
 Fluoranthene
 Concen: 20.94 ng
 RT: 12.69 min Scan# 1829
 Delta R.T. -0.01 min
 Lab File: BF094662.D
 Acq: 26 Apr 2017 22:11

Tgt Ion:202 Resp: 380802
 Ion Ratio Lower Upper
 202 100
 101 12.5 0.0 33.2
 203 17.2 0.0 38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.45 min Scan# 2128

Delta R.T. -0.01 min

Lab File: BF094662.D

Acq: 26 Apr 2017 22:11

Instrument :

BNA_F

ClientSampleId :

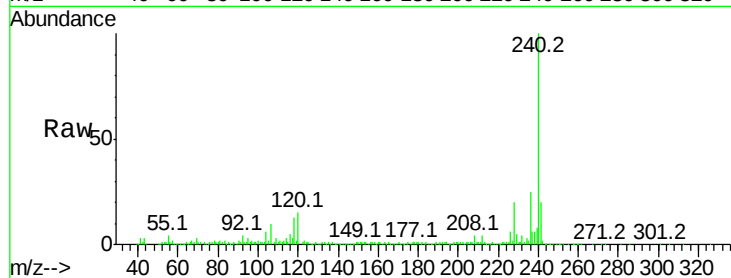
Tot Ion:240 Resp: 254945

Ion Ratio Lower Upper

240 100

120 15.2 5.8 8.8#

236 24.8 20.5 30.7

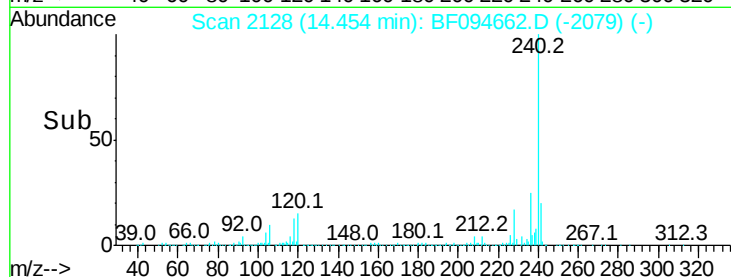


Abundance Ion 240.00 (239.70 to 240.70): E

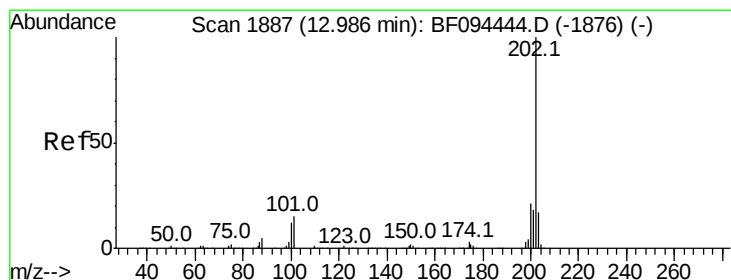
Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

14.45



Time-->



#77

Pyrene

Concen: 18.82 ng

RT: 12.97 min Scan# 1875

Delta R.T. -0.02 min

Lab File: BF094662.D

Acq: 26 Apr 2017 22:11

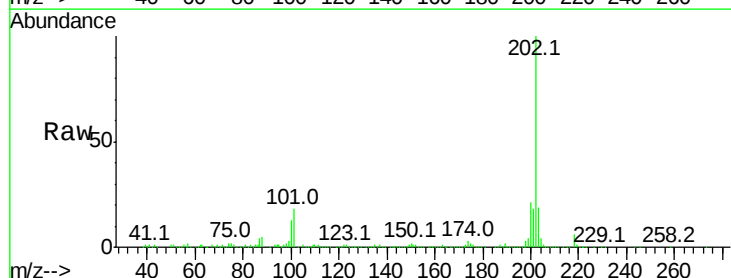
Tgt Ion:202 Resp: 335297

Ion Ratio Lower Upper

202 100

200 20.6 17.6 26.4

203 19.4 14.4 21.6

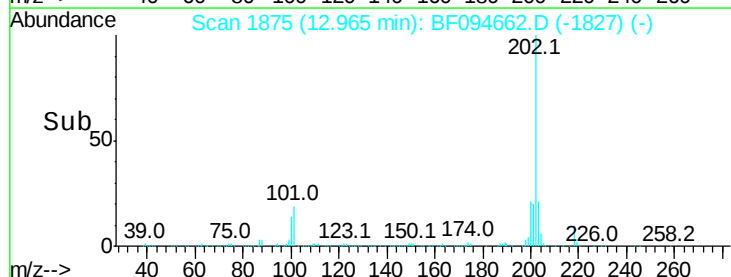


Abundance Ion 202.00 (201.70 to 202.70): E

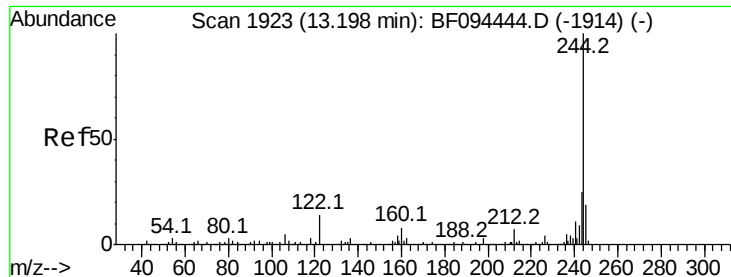
Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

12.97



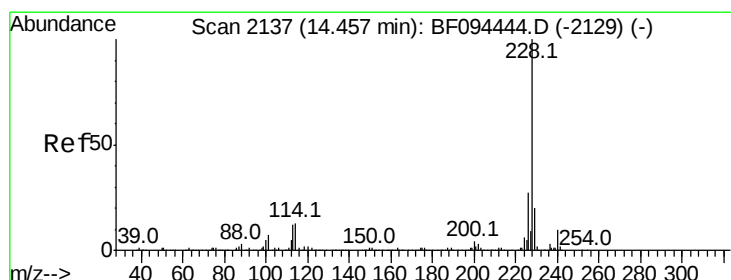
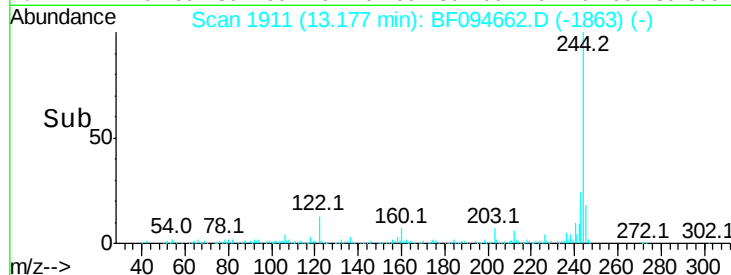
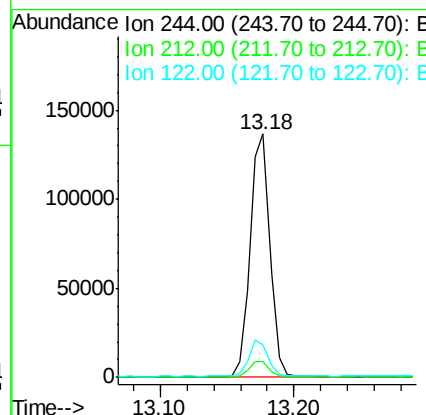
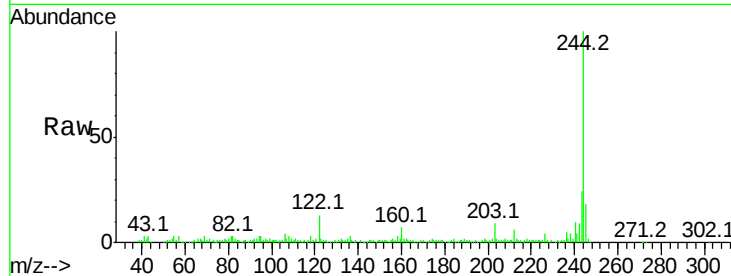
Time-->



#78
 Terphenyl-d14
 Concen: 14.56 ng
 RT: 13.18 min Scan# 1911
 Delta R.T. -0.02 min
 Lab File: BF094662.D
 Acq: 26 Apr 2017 22:11

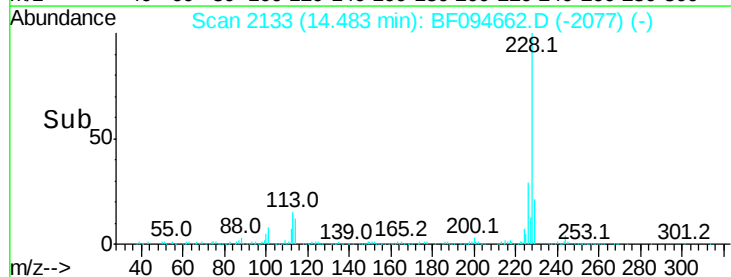
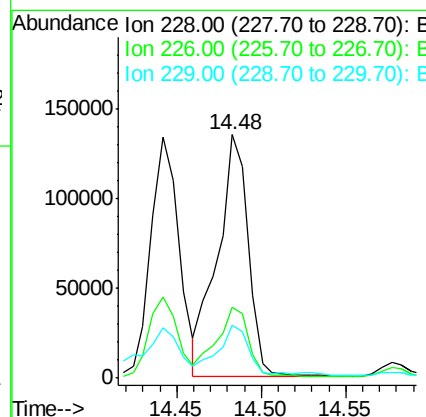
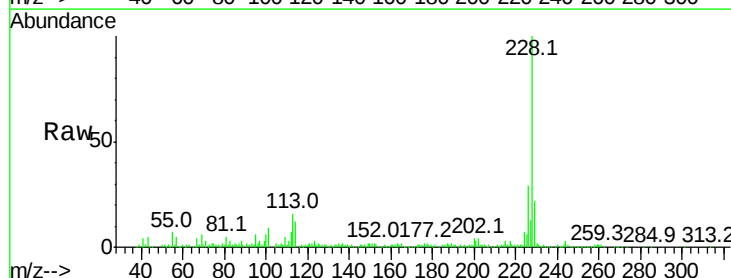
Instrument :
 BNA_F
 ClientSampleId :

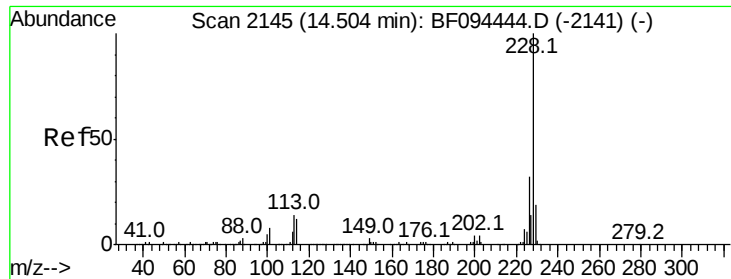
Tot Ion:244 Resp: 138916
 Ion Ratio Lower Upper
 244 100
 212 6.3 6.0 9.0
 122 13.2 10.3 15.5



#80
 Benzo(a)anthracene
 Concen: 11.57 ng
 RT: 14.48 min Scan# 2133
 Delta R.T. 0.03 min
 Lab File: BF094662.D
 Acq: 26 Apr 2017 22:11

Tgt Ion:228 Resp: 171450
 Ion Ratio Lower Upper
 228 100
 226 29.3 22.6 33.8
 229 21.9 16.3 24.5





#82

Chrysene

Concen: 12.66 ng

RT: 14.48 min Scan# 2133

Delta R.T. -0.02 min

Lab File: BF094662.D

Acq: 26 Apr 2017 22:11

Instrument :

BNA_F

ClientSampleId :

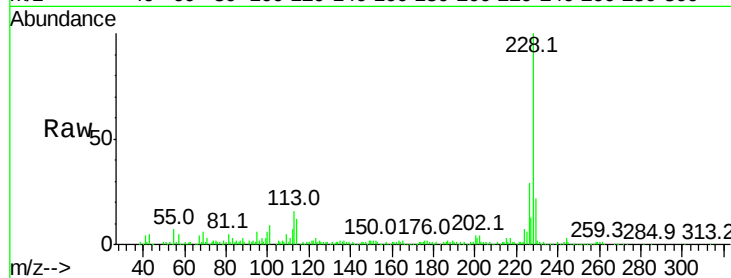
Tot Ion:228 Resp: 171450

Ion	Ratio	Lower	Upper
228	100		
226	29.3	24.9	37.3
229	21.9	15.8	23.6

228 100

226 29.3 24.9 37.3

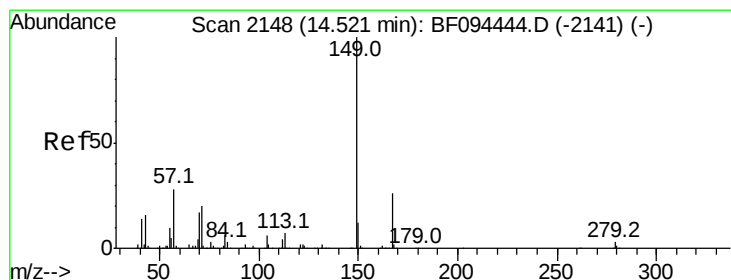
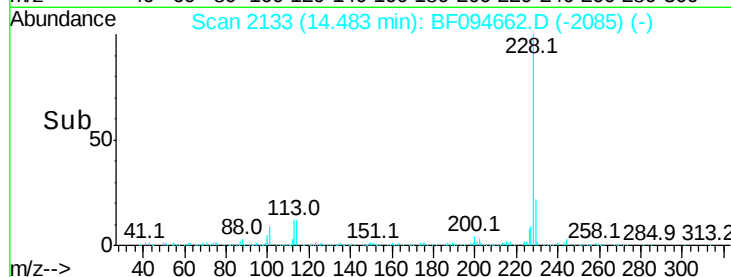
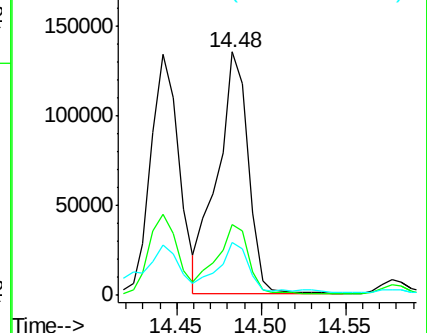
229 21.9 15.8 23.6



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



#83

Bis(2-ethylhexyl)phthalate

Concen: 2.10 ng

RT: 14.51 min Scan# 2137

Delta R.T. -0.01 min

Lab File: BF094662.D

Acq: 26 Apr 2017 22:11

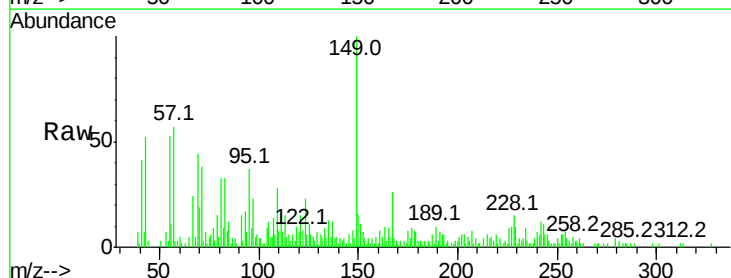
Tgt Ion:149 Resp: 22007

Ion	Ratio	Lower	Upper
149	100		
167	26.3	21.0	31.4
279	4.0	1.9	2.9#

149 100

167 26.3 21.0 31.4

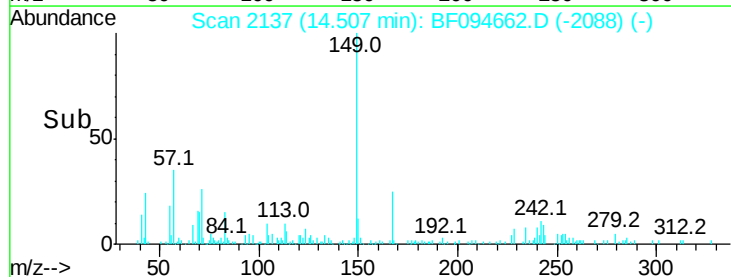
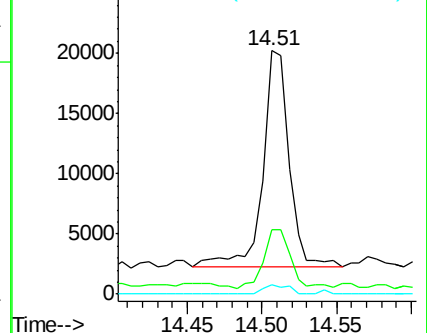
279 4.0 1.9 2.9#

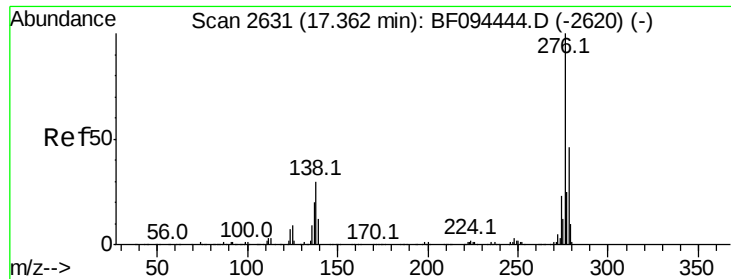


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

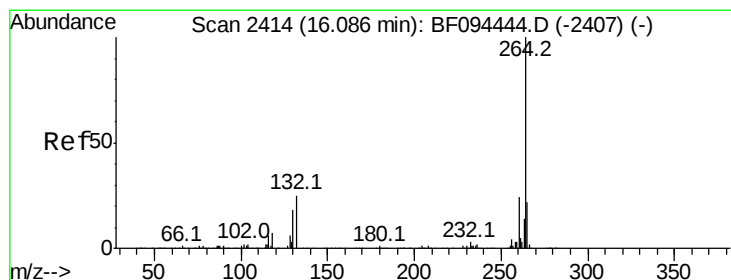
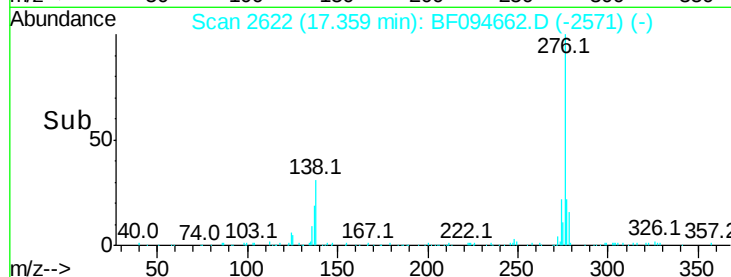
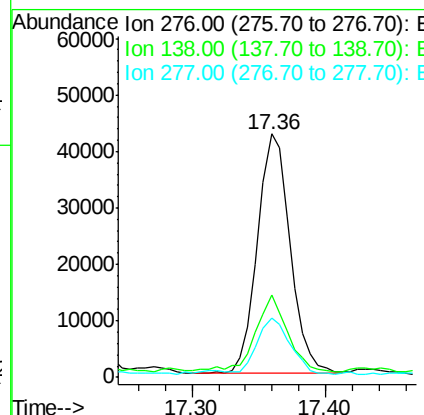
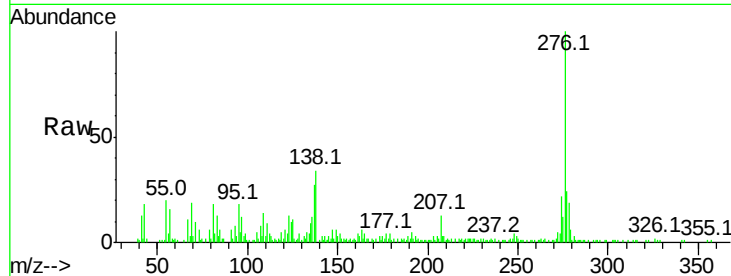




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 5.60 ng
 RT: 17.36 min Scan# 2622
 Delta R.T. -0.00 min
 Lab File: BF094662.D
 Acq: 26 Apr 2017 22:11

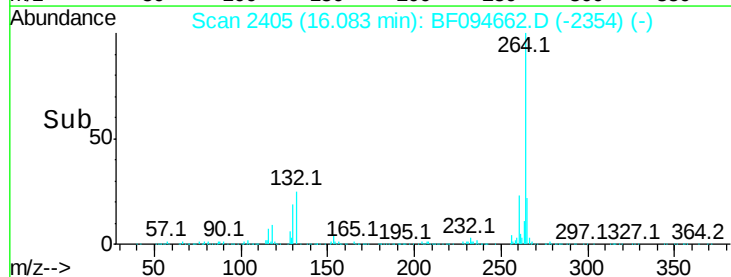
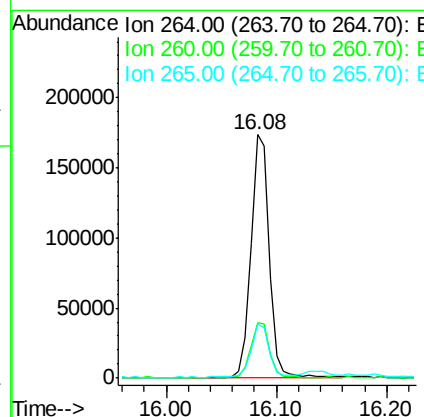
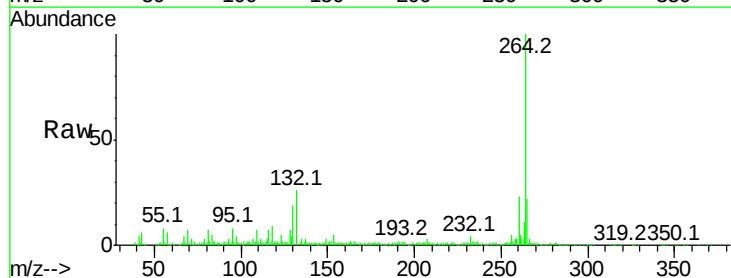
Instrument :
 BNA_F
 ClientSampled :

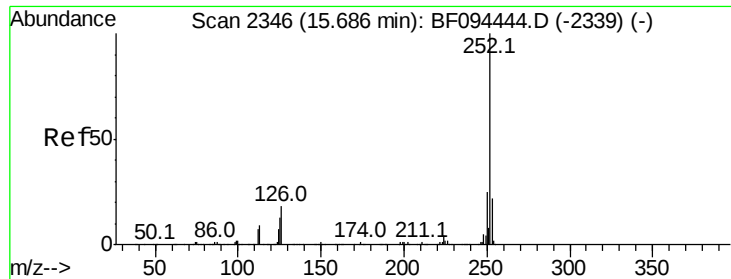
Tot Ion	Ratio	Lower	Upper
276	100		
138	31.2	27.8	41.6
277	23.5	20.2	30.4



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 16.08 min Scan# 2405
 Delta R.T. -0.00 min
 Lab File: BF094662.D
 Acq: 26 Apr 2017 22:11

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.0	19.5	29.3
265	22.0	17.2	25.8





#87

Benzo(b)fluoranthene

Concen: 23.44 ng

RT: 15.68 min Scan# 2337

Delta R.T. -0.00 min

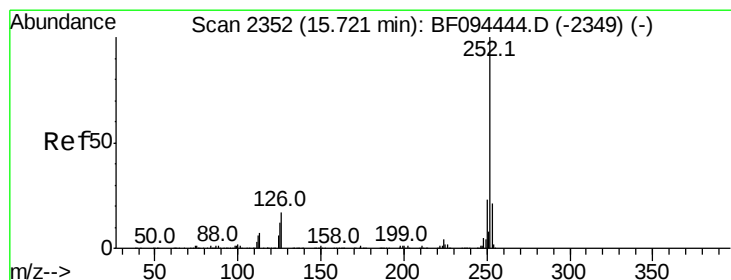
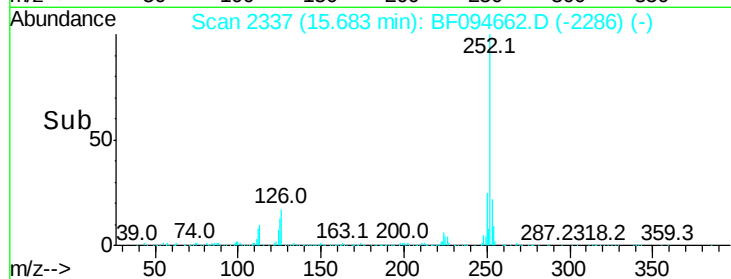
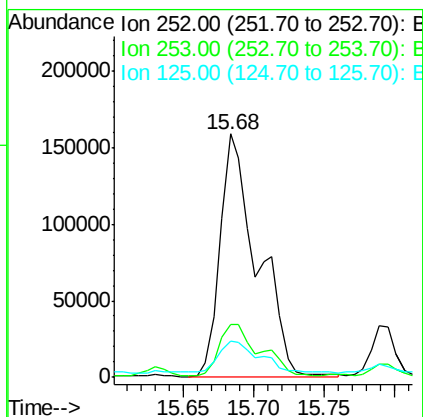
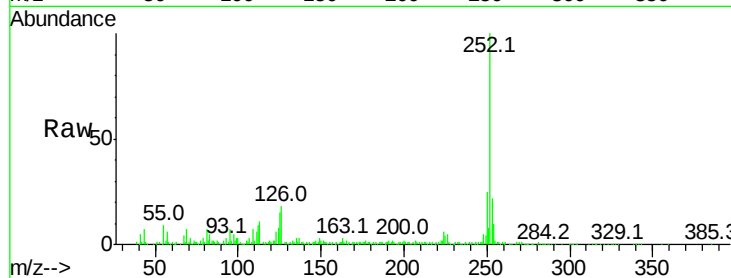
Lab File: BF094662.D

Acq: 26 Apr 2017 22:11

Instrument :
BNA_F
ClientSampleId :

Tot Ion:252 Resp: 292306

Ion	Ratio	Lower	Upper
252	100		
253	21.9	18.1	27.1
125	15.0	9.8	14.8#



#88

Benzo(k)fluoranthene

Concen: 24.77 ng

RT: 15.68 min Scan# 2337

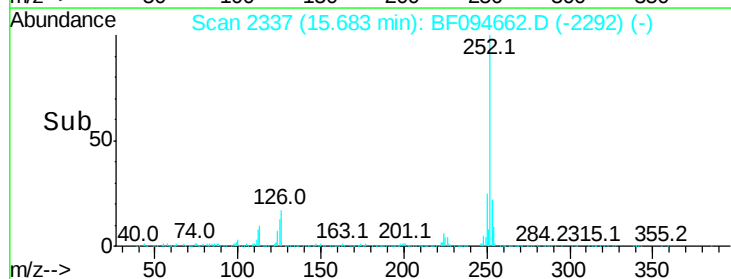
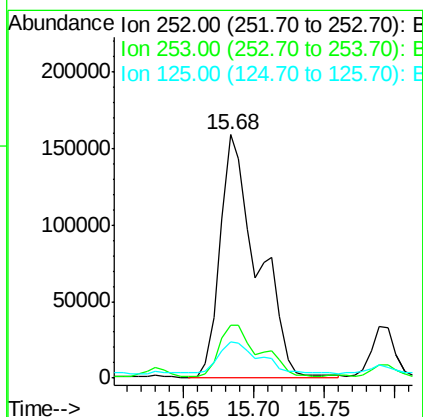
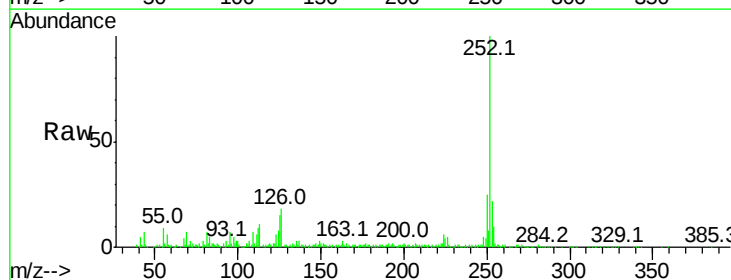
Delta R.T. -0.04 min

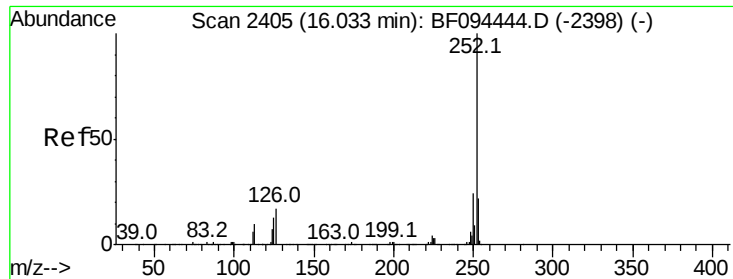
Lab File: BF094662.D

Acq: 26 Apr 2017 22:11

Tgt Ion:252 Resp: 292306

Ion	Ratio	Lower	Upper
252	100		
253	21.9	18.4	27.6
125	15.0	13.1	19.7

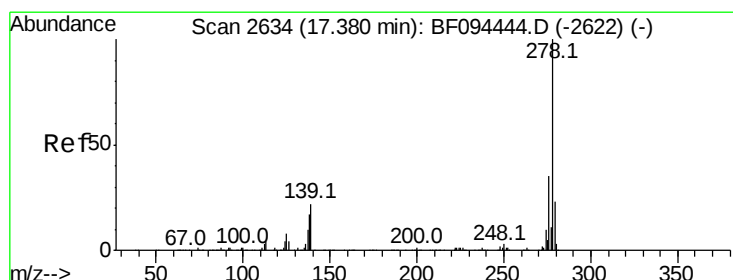
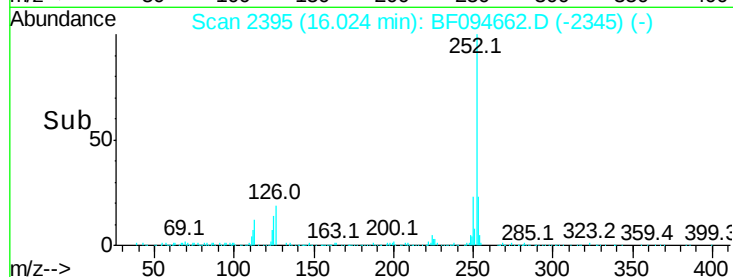
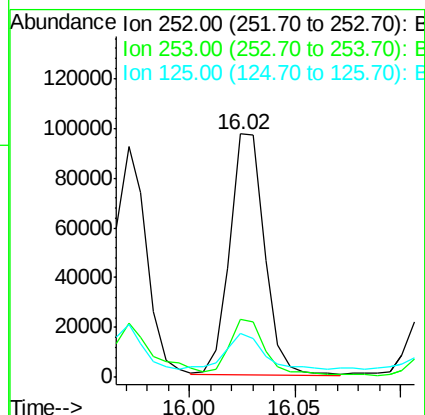
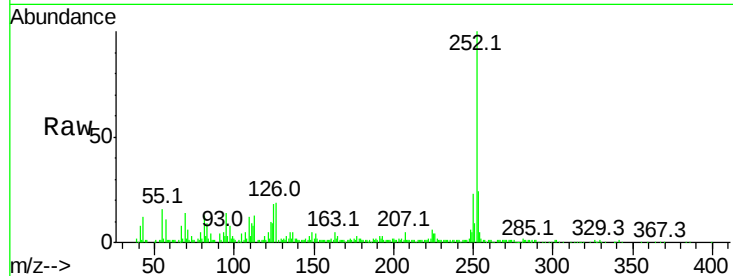




#89
Benzo(a)pyrene
Concen: 9.49 ng
RT: 16.02 min Scan# 2395
Delta R.T. -0.01 min
Lab File: BF094662.D
Acq: 26 Apr 2017 22:11

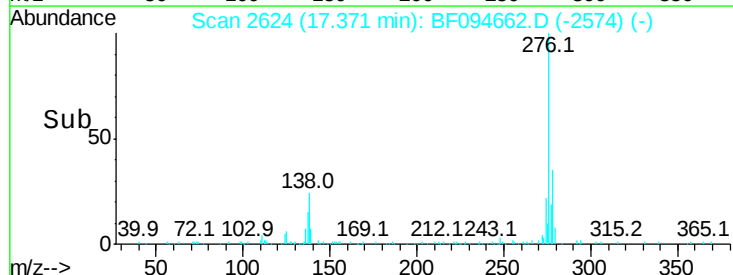
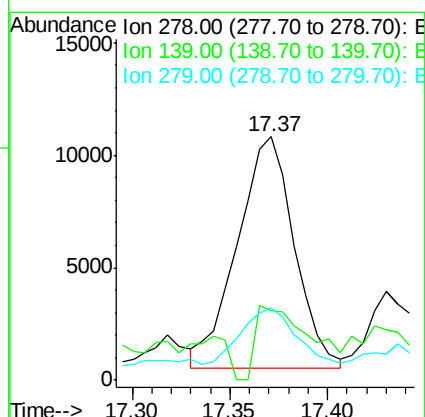
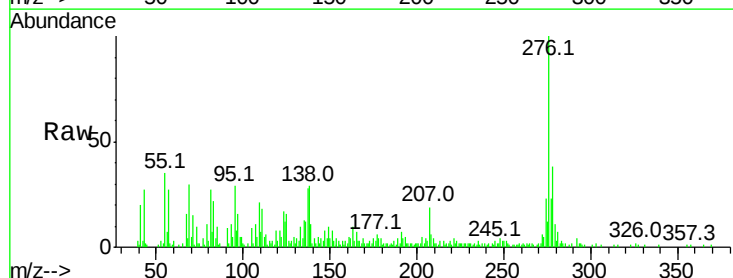
Instrument :
BNA_F
ClientSampleId :

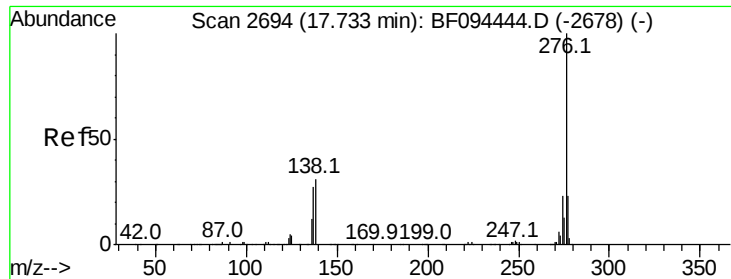
Tot Ion:252 Resp: 110125
Ion Ratio Lower Upper
252 100
253 23.7 17.5 26.3
125 17.9 11.0 16.4#



#90
Dibenzo(a,h)anthracene
Concen: 2.16 ng
RT: 17.37 min Scan# 2624
Delta R.T. -0.01 min
Lab File: BF094662.D
Acq: 26 Apr 2017 22:11

Tgt Ion:278 Resp: 20782
Ion Ratio Lower Upper
278 100
139 28.3 16.6 24.8#
279 29.6 19.3 28.9#





#91

Benzo(a,h,i)perylene

Concen: 7.44 ng

RT: 17.74 min Scan# 2686

Delta R.T. 0.00 min

Lab File: BF094662.D

Acq: 26 Apr 2017 22:11

Instrument :

BNA_F

ClientSampleId :

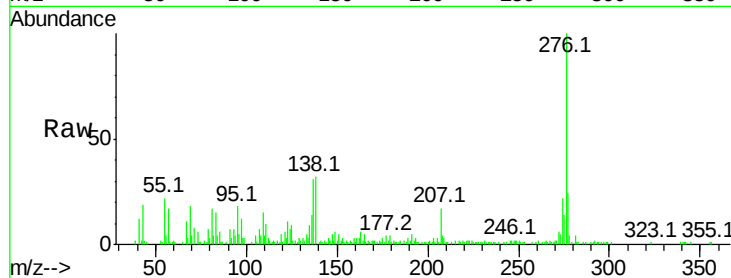
Tot Ion:276 Resp: 73009

Ion Ratio Lower Upper

276 100

277 24.4 18.6 28.0

138 32.1 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

