

Data Path : Z:\HPCHEM1\BNA F\DATA\BF041817\
 Data File : BF094498.D
 Acq On : 18 Apr 2017 20:42
 Operator : SJ/MA
 Sample : I2708-01
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Apr 19 01:16:06 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	5.77	152	130252	20.00	ng	0.00
21) Naphthalene-d8	7.27	136	515461	20.00	ng	0.00
38) Acenaphthene-d10	9.40	164	198439	20.00	ng	0.00
63) Phenanthrene-d10	11.21	188	388148	20.00	ng	0.00
75) Chrysene-d12	14.46	240	277435	20.00	ng	0.00
86) Perylene-d12	16.09	264	267635	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	4.32	112	817987	104.19	ng	0.02
7) Phenol-d6	5.40	99	1045261	112.93	ng	0.00
23) Nitrobenzene-d5	6.42	82	667662	79.98	ng	0.00
41) 2,4,6-Tribromophenol	10.37	330	185656	119.61	ng	0.00
44) 2-Fluorobiphenyl	8.59	172	1137067	84.31	ng	0.00
78) Terphenyl-d14	13.19	244	802134	77.28	ng	0.00

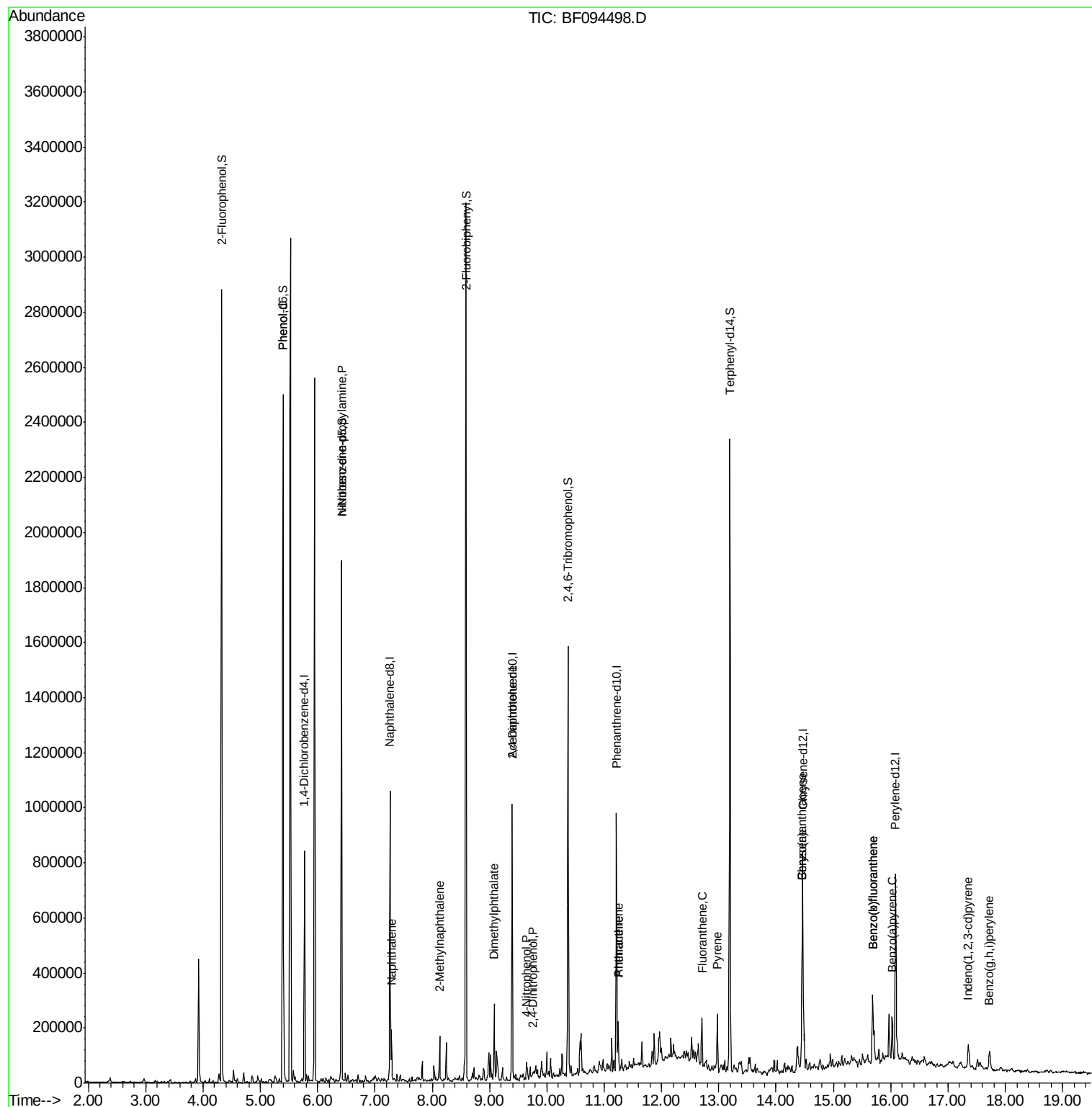
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Phenol	5.41	94	34159	3.00	ng	97
19) n-Nitroso-di-n-propylamine	6.42	70	89498	14.59	ng	# 76
31) Naphthalene	7.29	128	73742	2.98	ng	98
37) 2-Methylnaphthalene	8.13	142	47395	2.80	ng	97
49) Dimethylphthalate	9.08	163	111028	7.51	ng	99
53) 2,4-Dinitrophenol	9.76	184	123	5.82	ng	# 4
55) 4-Nitrophenol	9.65	139	8608	3.17	ng	# 28
56) 2,4-Dinitrotoluene	9.40	165	26896	6.60	ng	# 34
70) Phenanthrene	11.24	178	65856	3.01	ng	97
71) Anthracene	11.24	178	65856	2.91	ng	98
74) Fluoranthene	12.71	202	75978	3.35	ng	98
77) Pyrene	12.98	202	76532	3.95	ng	98
80) Benzo(a)anthracene	14.45	228	53137	3.30	ng	97
82) Chrysene	14.45	228	53137	3.61	ng	96
85) Indeno(1,2,3-cd)pyrene	17.35	276	46913	3.35	ng	98
87) Benzo(b)fluoranthene	15.68	252	156306	9.55	ng	98
88) Benzo(k)fluoranthene	15.68	252	156306	10.09	ng	97
89) Benzo(a)pyrene	16.02	252	63846	4.19	ng	# 96
91) Benzo(a,h,i)perylene	17.72	276	48796	3.79	ng	97

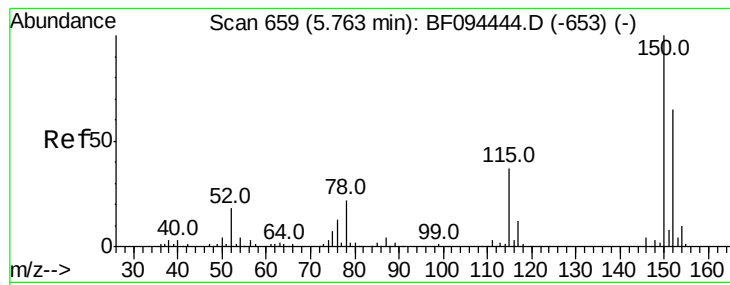
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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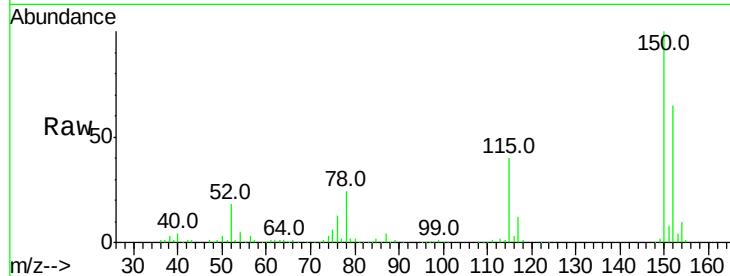


#1

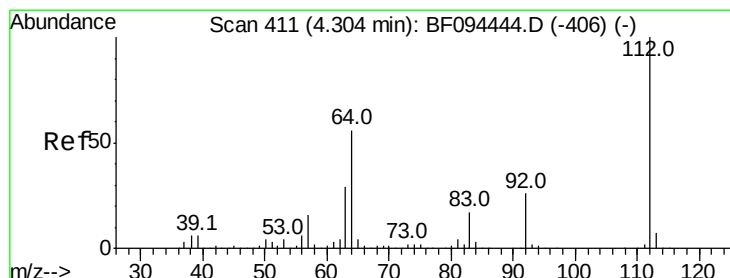
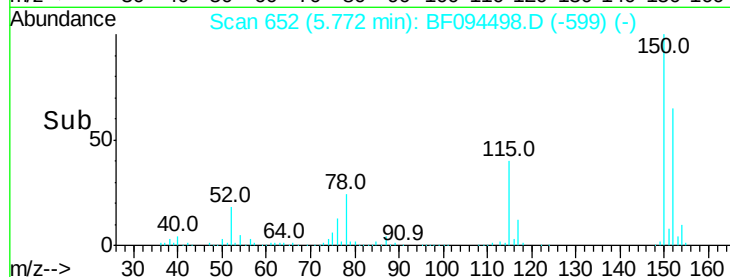
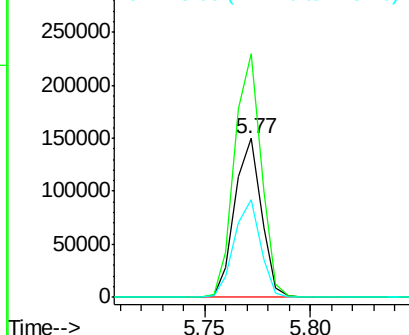
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 5.77 min Scan# 652
Delta R.T. 0.01 min
Lab File: BF094498.D
Acq: 18 Apr 2017 20:42

Instrument :
BNA_F
ClientSampled :

Tot Ion:152 Resp: 130252
Ion Ratio Lower Upper
152 100
150 153.6 126.2 189.2
115 61.5 52.2 78.2



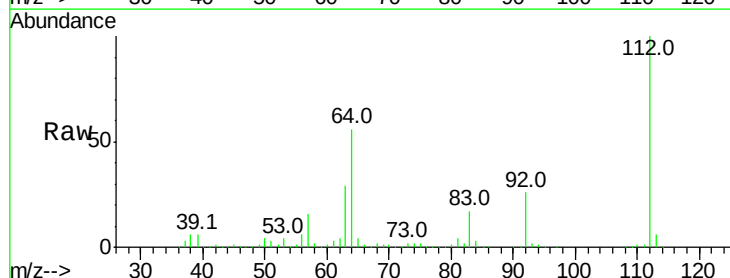
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



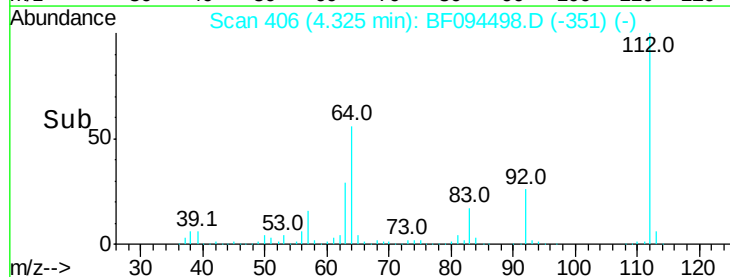
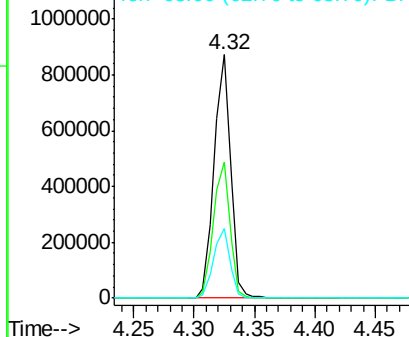
#5

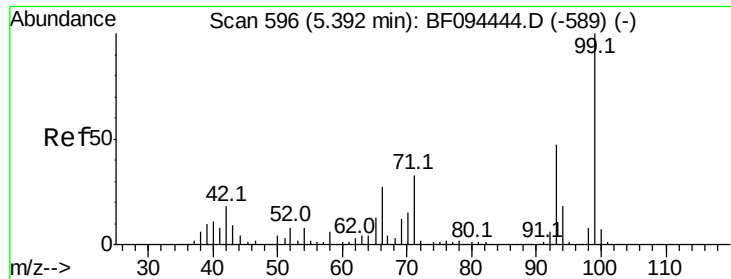
2-Fluorophenol
Concen: 104.19 ng
RT: 4.32 min Scan# 406
Delta R.T. 0.02 min
Lab File: BF094498.D
Acq: 18 Apr 2017 20:42

Tgt Ion:112 Resp: 817987
Ion Ratio Lower Upper
112 100
64 56.1 46.0 69.0
63 28.7 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: 112.93 ng

RT: 5.40 min Scan# 589

Delta R.T. 0.01 min

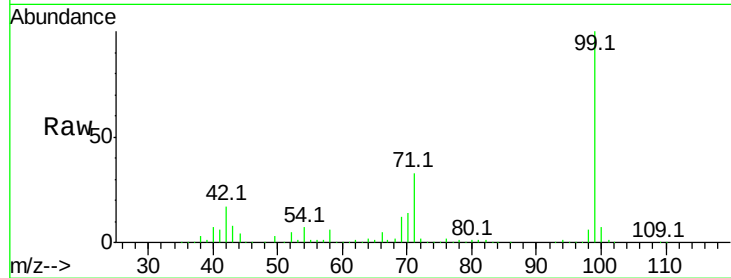
Lab File: BF094498.D

Acq: 18 Apr 2017 20:42

Instrument :
BNA_F
ClientSampleId :

Tot Ion: 99 Resp: 1045261

Ion	Ratio	Lower	Upper
99	100		
42	16.6	13.5	20.3
71	32.8	24.5	36.7

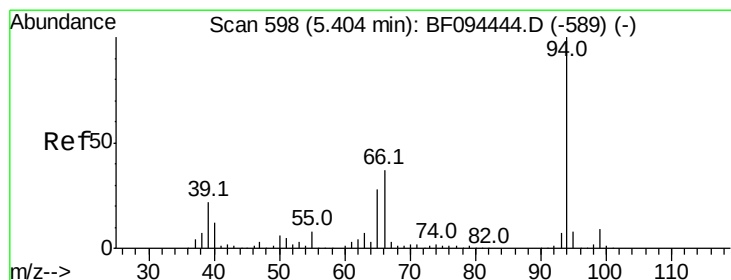
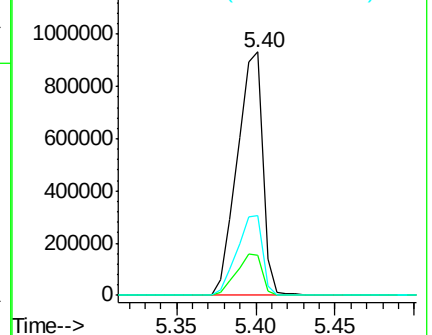
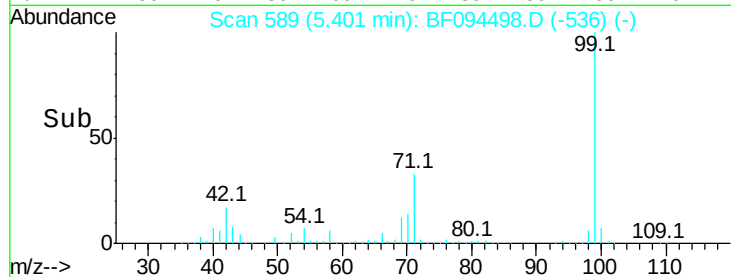


Abundance

Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#10

Phenol

Concen: 3.00 ng

RT: 5.41 min Scan# 590

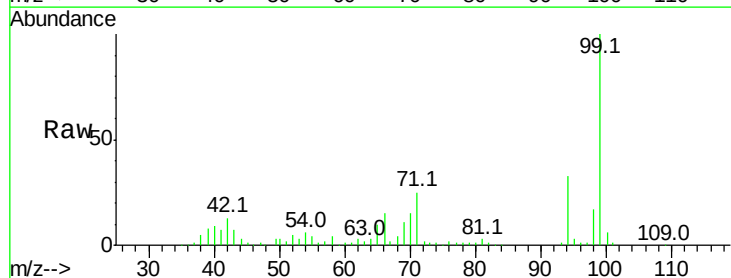
Delta R.T. 0.00 min

Lab File: BF094498.D

Acq: 18 Apr 2017 20:42

Tgt Ion: 94 Resp: 34159

Ion	Ratio	Lower	Upper
94	100		
65	31.2	9.9	49.9
66	45.4	23.1	63.1

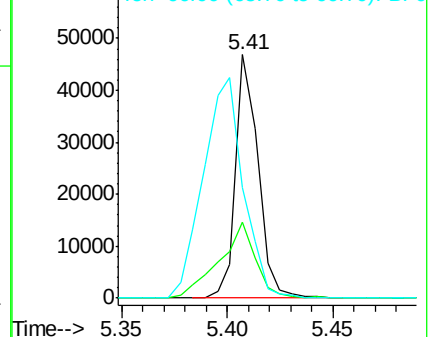
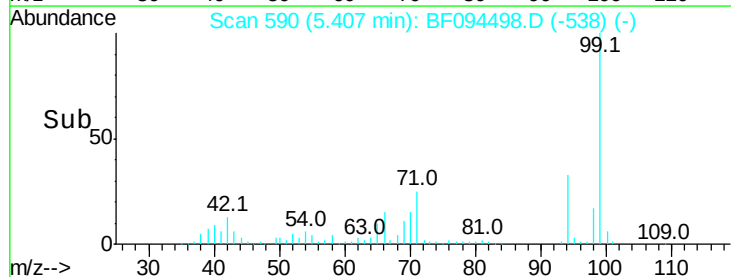


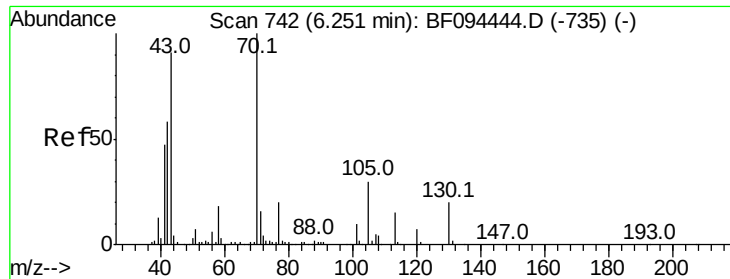
Abundance

Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0

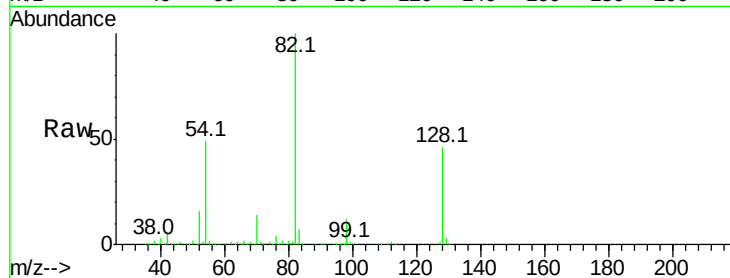




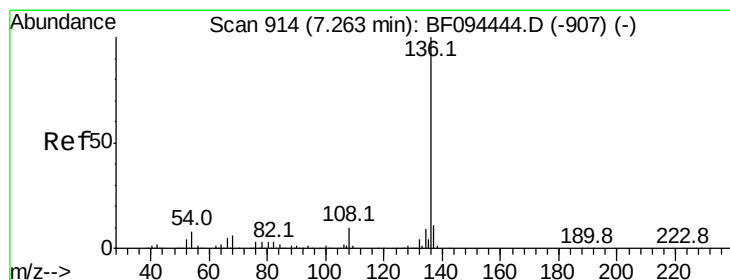
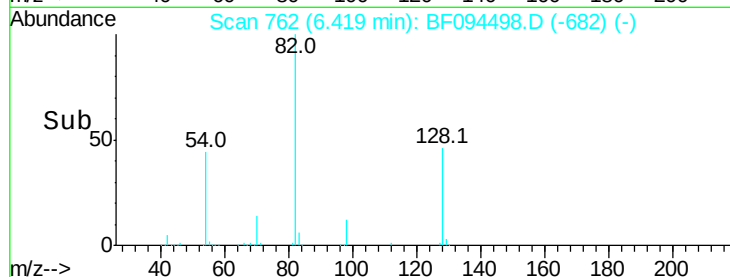
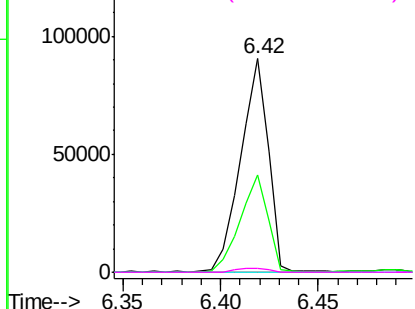
#19
 n-Nitroso-di-n-propylamine
 Concen: 14.59 ng
 RT: 6.42 min Scan# 762
 Delta R.T. 0.17 min
 Lab File: BF094498.D
 Acq: 18 Apr 2017 20:42

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion: 70 Resp: 89498
 Ion Ratio Lower Upper
 70 100
 42 45.3 47.2 70.8#
 101 0.0 7.2 10.8#
 130 2.1 15.9 23.9#

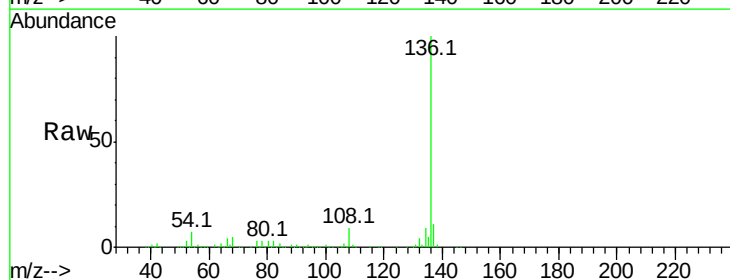


Abundance Ion 70.00 (69.70 to 70.70): BF0
 Ion 42.00 (41.70 to 42.70): BF0
 Ion 101.00 (100.70 to 101.70): E
 Ion 130.00 (129.70 to 130.70): E

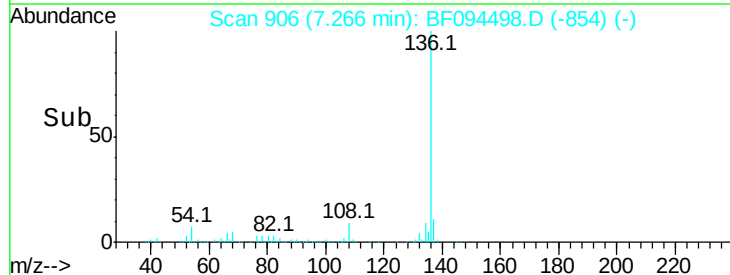
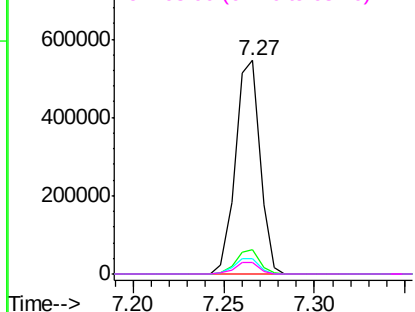


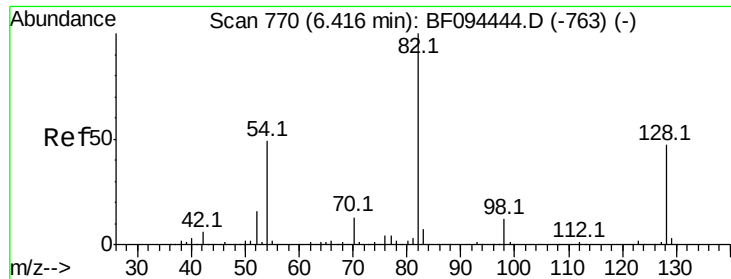
#21
 Naphthalene-d8
 Concen: 20.00 ng
 RT: 7.27 min Scan# 906
 Delta R.T. 0.00 min
 Lab File: BF094498.D
 Acq: 18 Apr 2017 20:42

Tgt Ion: 136 Resp: 515461
 Ion Ratio Lower Upper
 136 100
 137 11.1 8.5 12.7
 54 7.0 4.9 7.3
 68 5.4 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

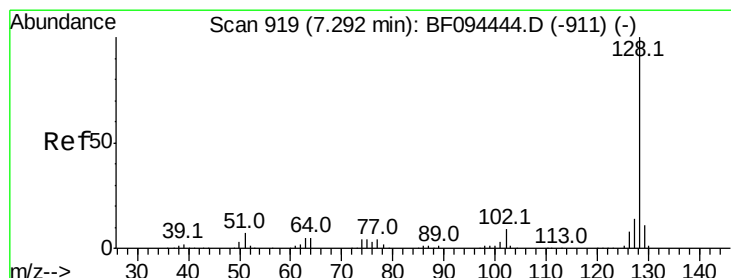
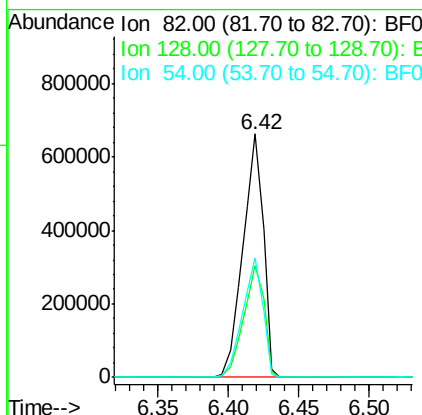
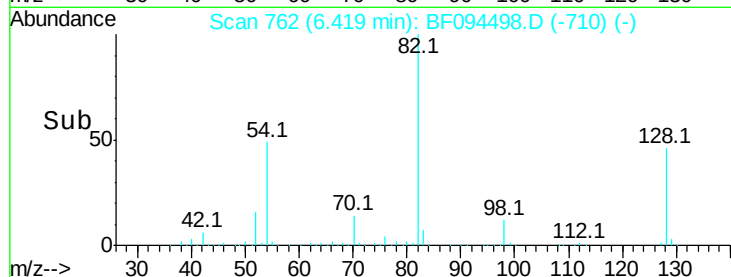
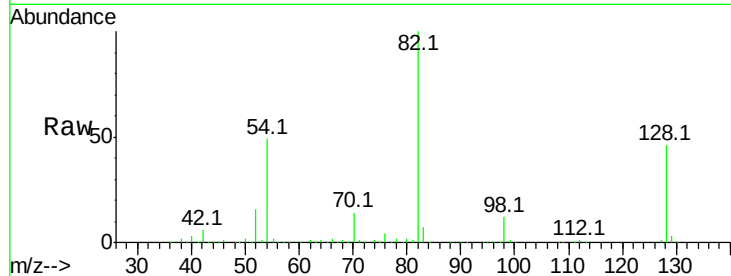




#23
 Nitrobenzene-d5
 Concen: 79.98 ng
 RT: 6.42 min Scan# 762
 Delta R.T. 0.00 min
 Lab File: BF094498.D
 Acq: 18 Apr 2017 20:42

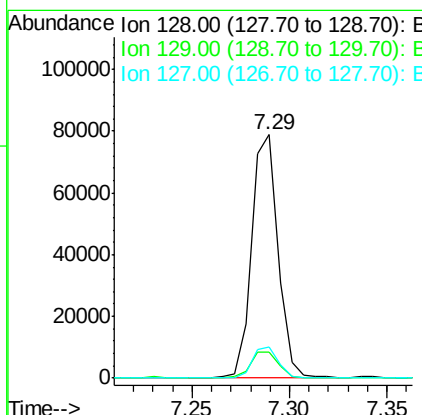
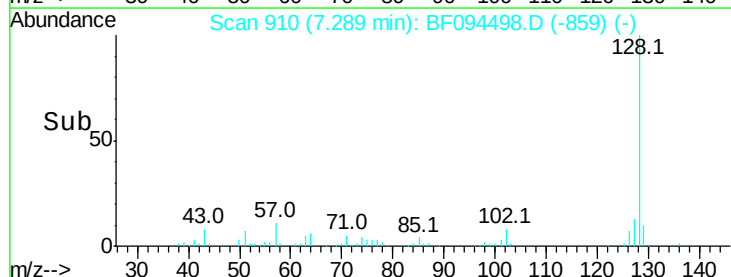
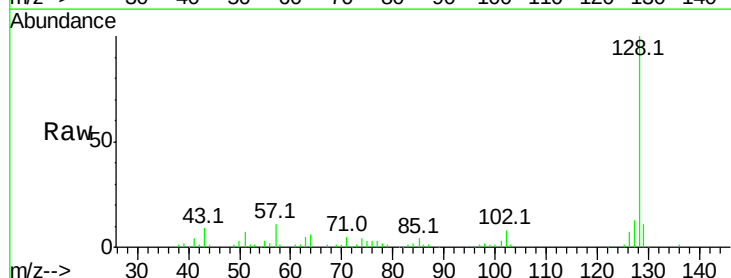
Instrument :
 BNA_F
 ClientSampled :

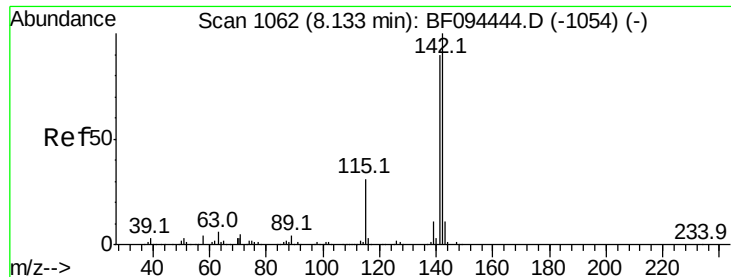
Tot Ion: 82 Resp: 667662
 Ion Ratio Lower Upper
 82 100
 128 45.9 34.0 51.0
 54 49.0 42.2 63.2



#31
 Naphthalene
 Concen: 2.98 ng
 RT: 7.29 min Scan# 910
 Delta R.T. -0.00 min
 Lab File: BF094498.D
 Acq: 18 Apr 2017 20:42

Tgt Ion:128 Resp: 73742
 Ion Ratio Lower Upper
 128 100
 129 10.6 9.0 13.6
 127 12.5 10.8 16.2





#37

2-Methylnaphthalene

Concen: 2.80 ng

RT: 8.13 min Scan# 1053

Delta R.T. -0.00 min

Lab File: BF094498.D

Acq: 18 Apr 2017 20:42

Instrument :

BNA_F

ClientSampleId :

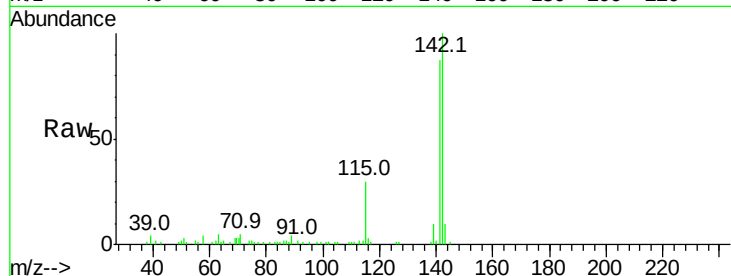
Tot Ion:142 Resp: 47395

Ion Ratio Lower Upper

142 100

141 87.3 71.3 106.9

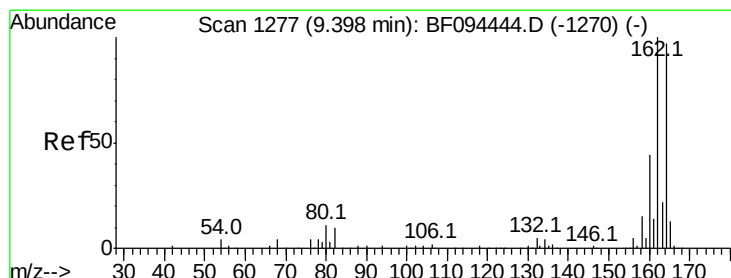
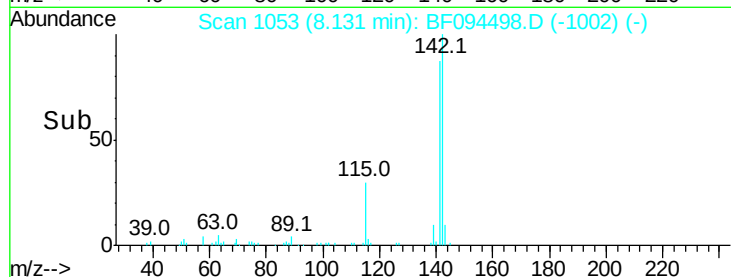
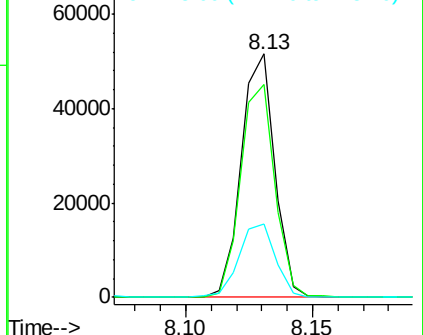
115 30.2 27.1 40.7



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.40 min Scan# 1268

Delta R.T. -0.00 min

Lab File: BF094498.D

Acq: 18 Apr 2017 20:42

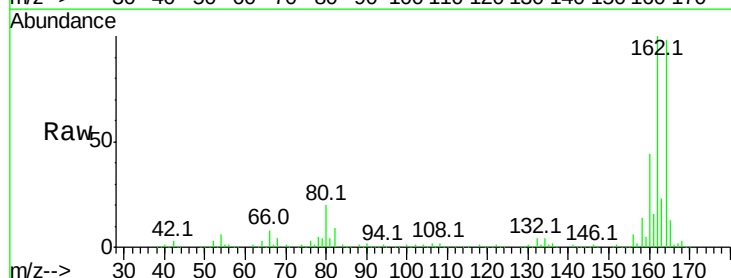
Tgt Ion:164 Resp: 198439

Ion Ratio Lower Upper

164 100

162 101.7 82.6 123.8

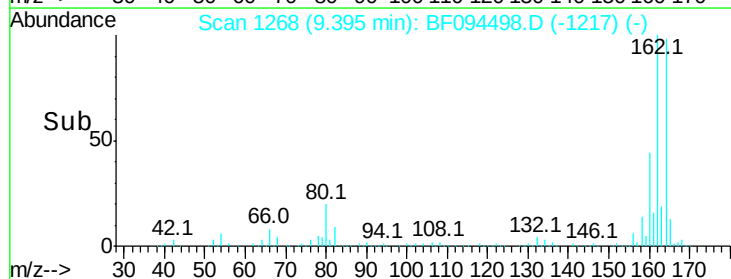
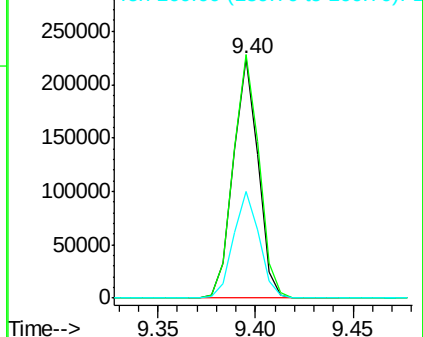
160 44.5 36.2 54.2

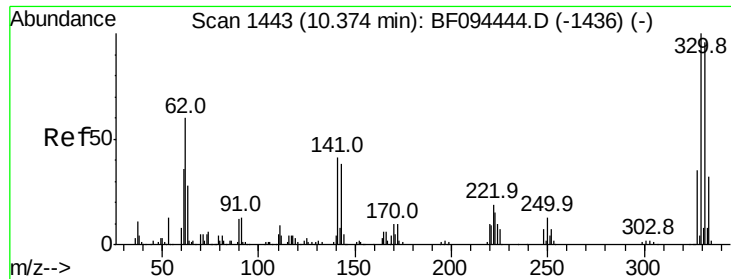


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

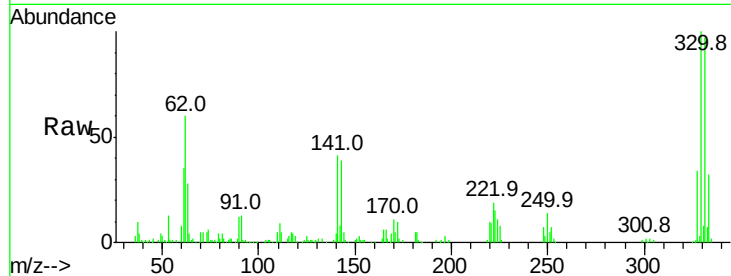




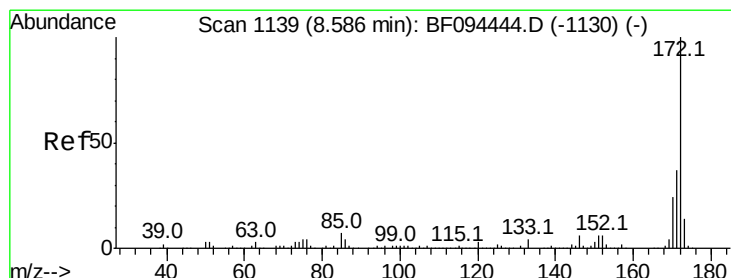
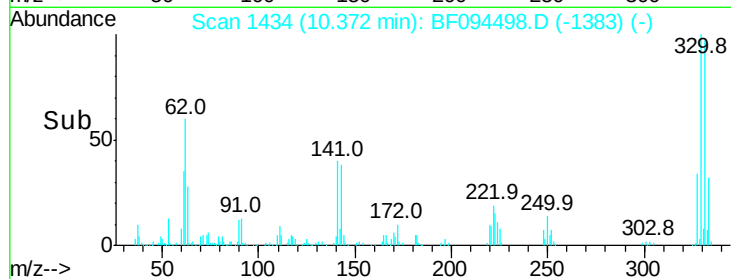
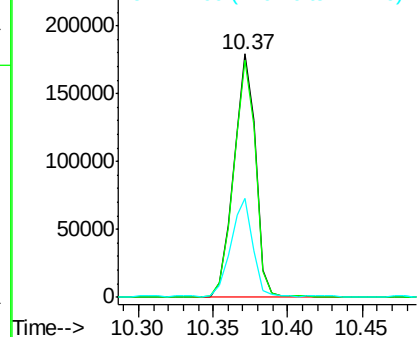
#41
 2,4,6-Tribromophenol
 Concen: 119.61 ng
 RT: 10.37 min Scan# 1434
 Delta R.T. -0.00 min
 Lab File: BF094498.D
 Acq: 18 Apr 2017 20:42

Instrument :
 BNA_F
 ClientSampleID :

Tot Ion	Ratio	Lower	Upper
330	100		
332	97.9	76.6	115.0
141	40.5	31.4	47.2

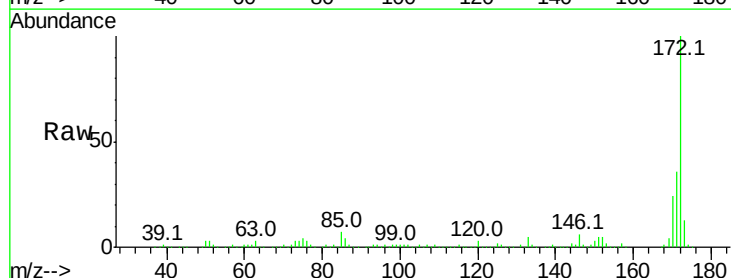


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

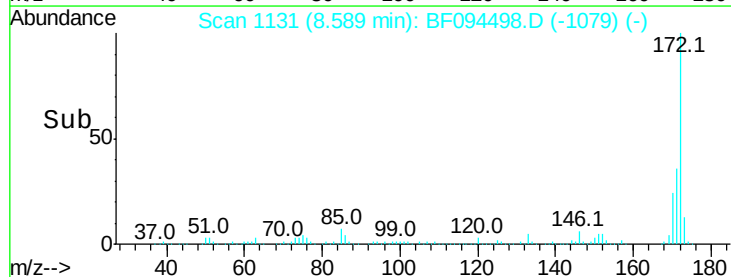
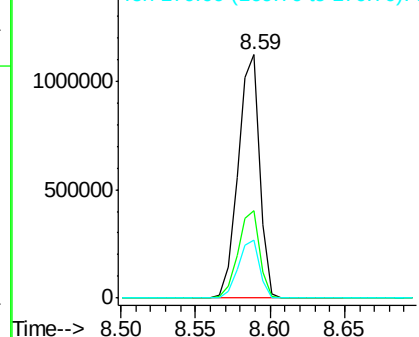


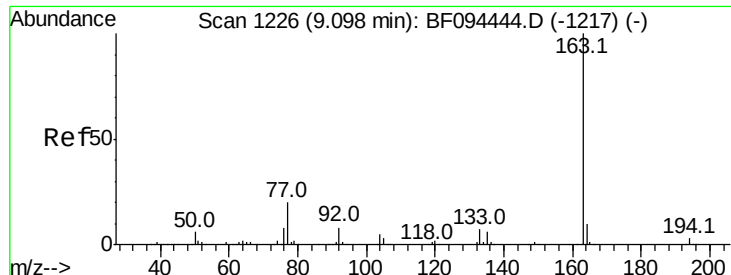
#44
 2-Fluorobiphenyl
 Concen: 84.31 ng
 RT: 8.59 min Scan# 1131
 Delta R.T. 0.00 min
 Lab File: BF094498.D
 Acq: 18 Apr 2017 20:42

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





#49

Dimethylphthalate

Concen: 7.51 ng

RT: 9.08 min Scan# 1215

Delta R.T. -0.01 min

Lab File: BF094498.D

Acq: 18 Apr 2017 20:42

Instrument :

BNA_F

ClientSampleId :

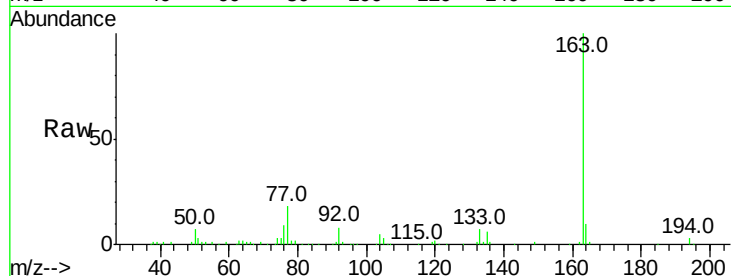
Tot Ion:163 Resp: 111028

Ion Ratio Lower Upper

163 100

194 3.1 2.6 4.0

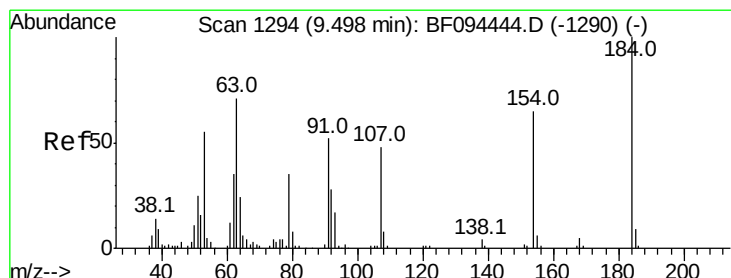
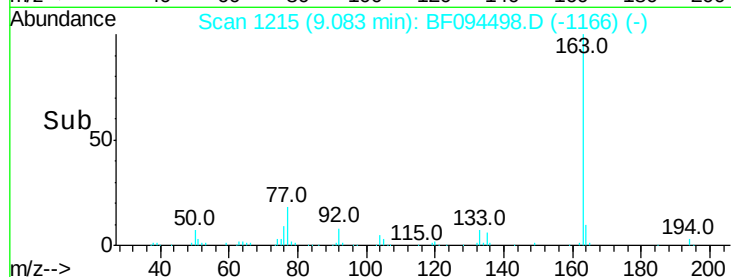
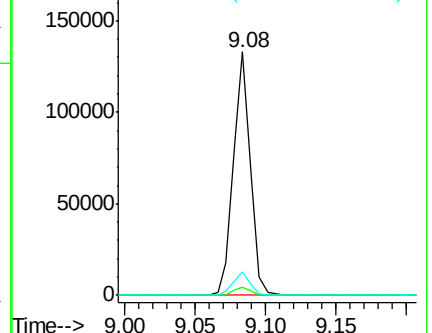
164 9.9 8.4 12.6



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#53

2,4-Dinitrophenol

Concen: 5.82 ng

RT: 9.76 min Scan# 1330

Delta R.T. 0.26 min

Lab File: BF094498.D

Acq: 18 Apr 2017 20:42

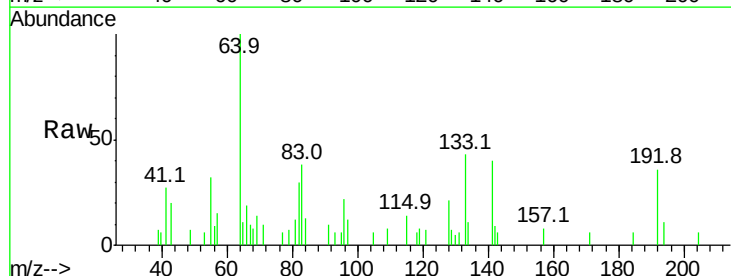
Tgt Ion:184 Resp: 123

Ion Ratio Lower Upper

184 100

63 0.0 62.7 94.1#

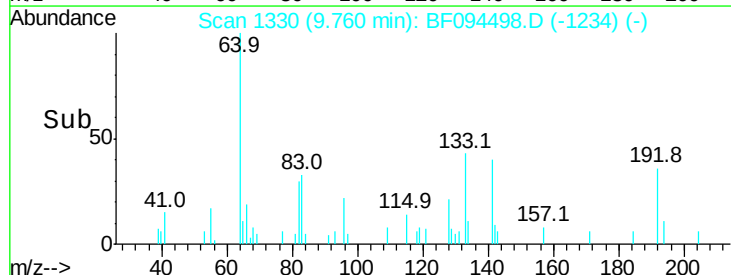
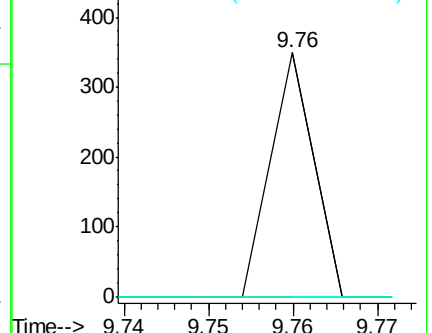
154 0.0 81.1 121.7#

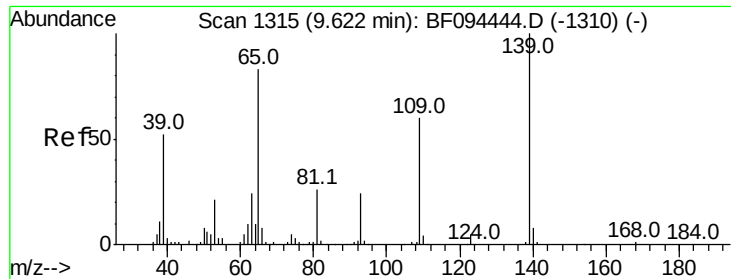


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 154.00 (153.70 to 154.70): E

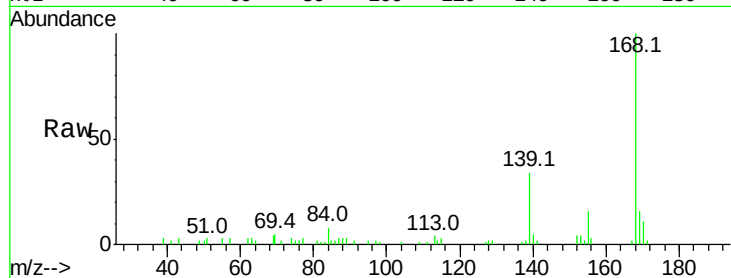




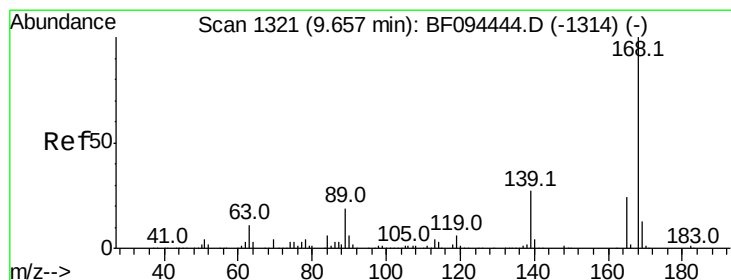
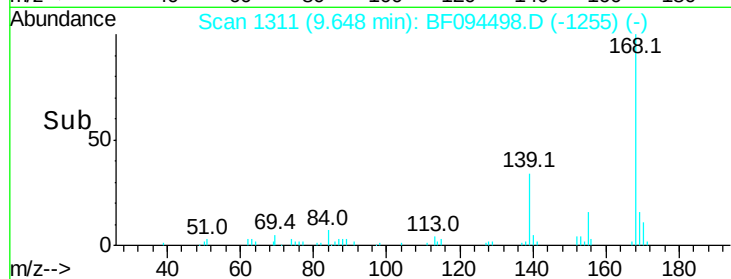
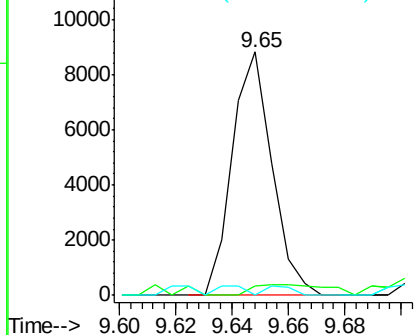
#55
4-Nitrophenol
Concen: 3.17 ng
RT: 9.65 min Scan# 1311
Delta R.T. 0.03 min
Lab File: BF094498.D
Acq: 18 Apr 2017 20:42

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
139	100		
109	3.8	34.1	74.1#
65	0.0	31.4	71.4#



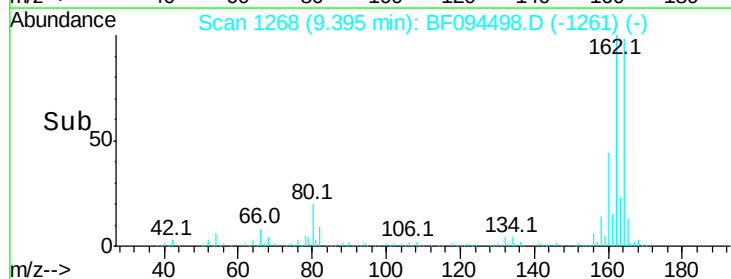
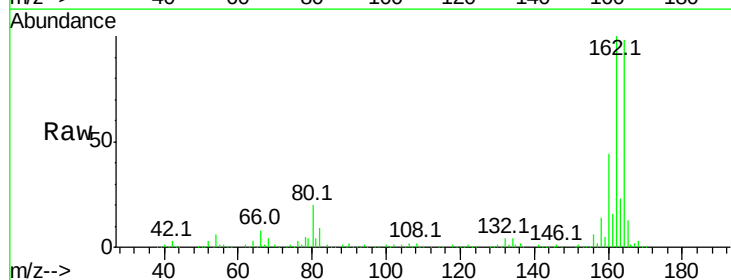
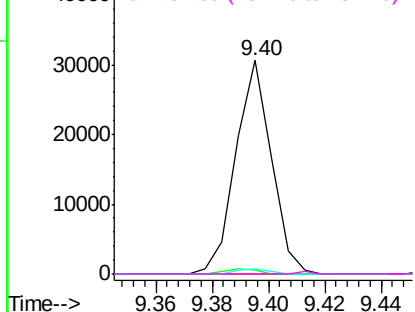
Abundance Ion 139.00 (138.70 to 139.70): E
Ion 109.00 (108.70 to 109.70): E
Ion 65.00 (64.70 to 65.70): BF0

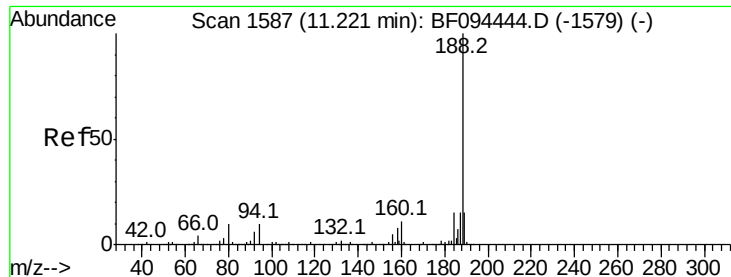


#56
2,4-Dinitrotoluene
Concen: 6.60 ng
RT: 9.40 min Scan# 1268
Delta R.T. -0.26 min
Lab File: BF094498.D
Acq: 18 Apr 2017 20:42

Tgt Ion	Ratio	Lower	Upper
165	100		
63	2.0	25.4	38.0#
89	2.3	46.4	69.6#
182	0.0	1.8	2.6#

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
Ion 182.00 (181.70 to 182.70): E





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.21 min Scan# 1577

Delta R.T. -0.01 min

Lab File: BF094498.D

Acq: 18 Apr 2017 20:42

Instrument :

BNA_F

ClientSampled :

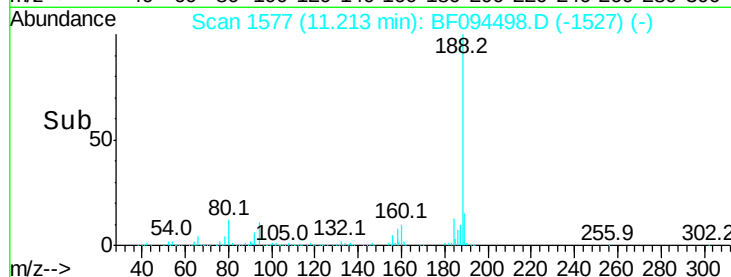
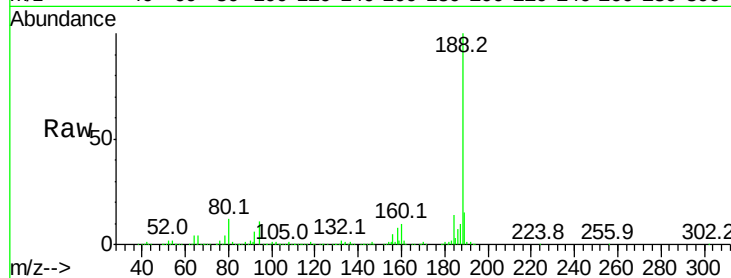
Tot Ion:188 Resp: 388148

Ion Ratio Lower Upper

188 100

94 11.3 9.4 14.2

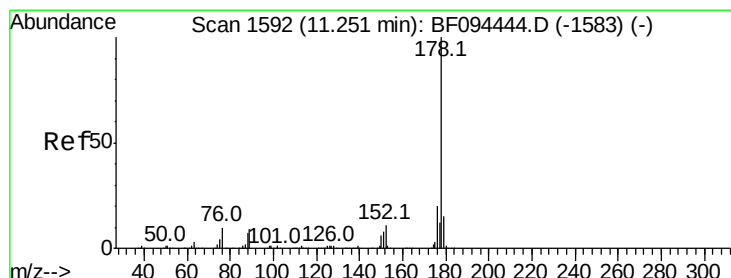
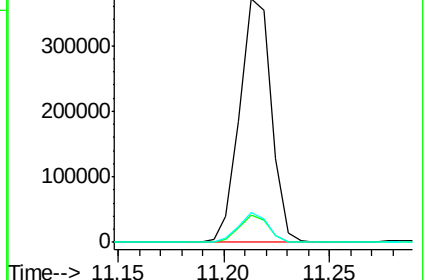
80 12.3 10.2 15.2



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0



#70

Phenanthrene

Concen: 3.01 ng

RT: 11.24 min Scan# 1582

Delta R.T. -0.01 min

Lab File: BF094498.D

Acq: 18 Apr 2017 20:42

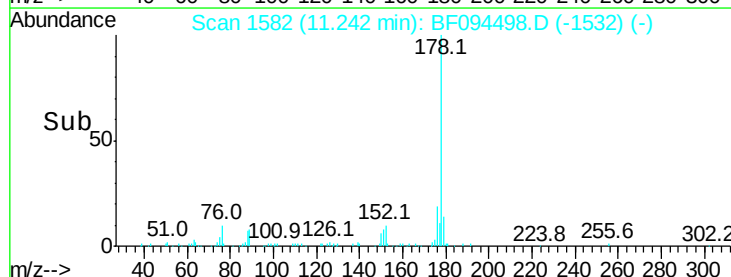
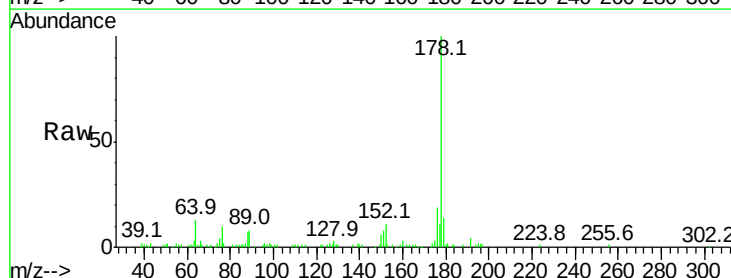
Tgt Ion:178 Resp: 65856

Ion Ratio Lower Upper

178 100

176 19.3 16.2 24.4

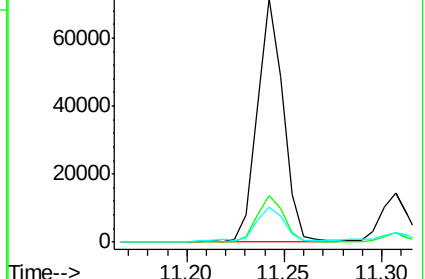
179 14.3 12.6 19.0

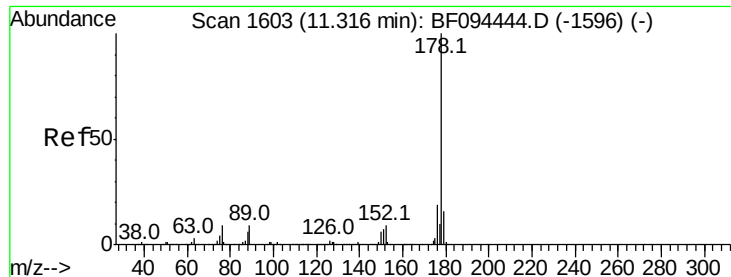


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#71

Anthracene

Concen: 2.91 ng

RT: 11.24 min Scan# 1582

Delta R.T. -0.07 min

Lab File: BF094498.D

Acq: 18 Apr 2017 20:42

Instrument :

BNA_F

ClientSampleId :

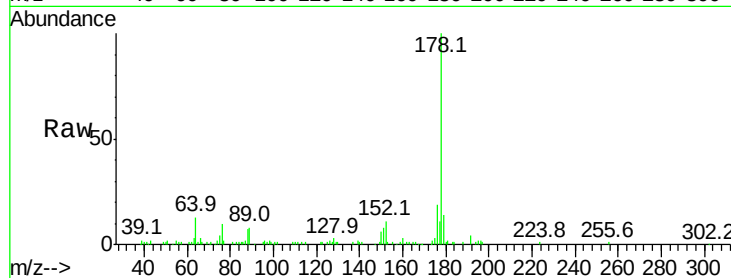
Tot Ion:178 Resp: 65856

Ion Ratio Lower Upper

178 100

176 19.3 15.8 23.8

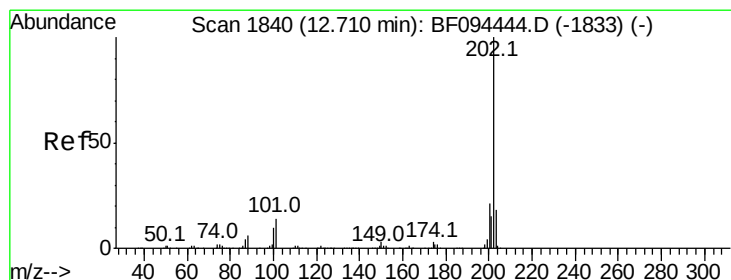
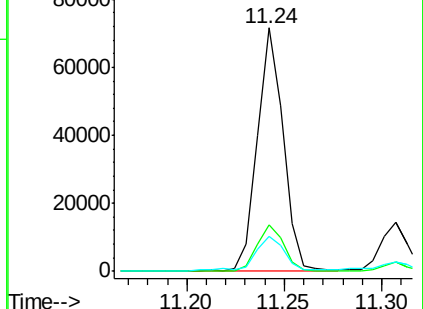
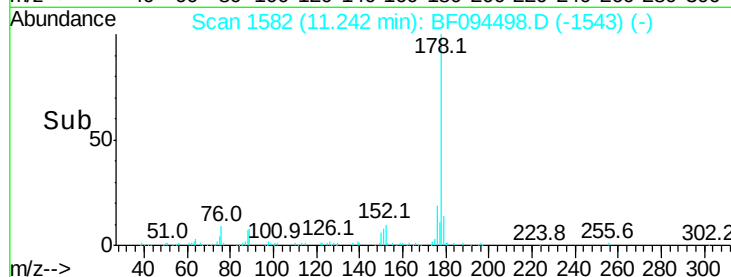
179 14.3 12.7 19.1



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#74

Fluoranthene

Concen: 3.35 ng

RT: 12.71 min Scan# 1831

Delta R.T. -0.00 min

Lab File: BF094498.D

Acq: 18 Apr 2017 20:42

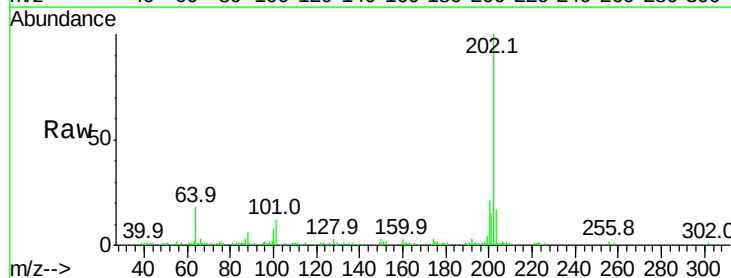
Tgt Ion:202 Resp: 75978

Ion Ratio Lower Upper

202 100

101 12.3 0.0 33.2

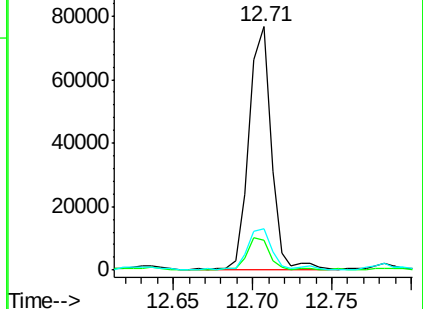
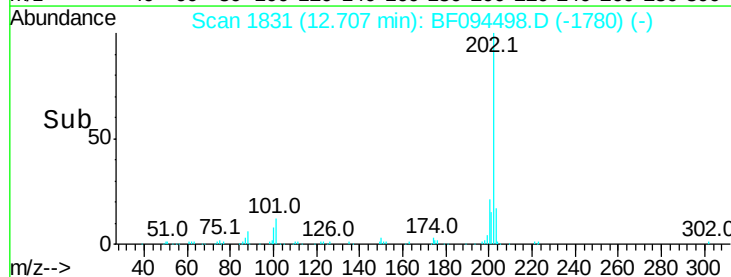
203 17.2 0.0 38.1

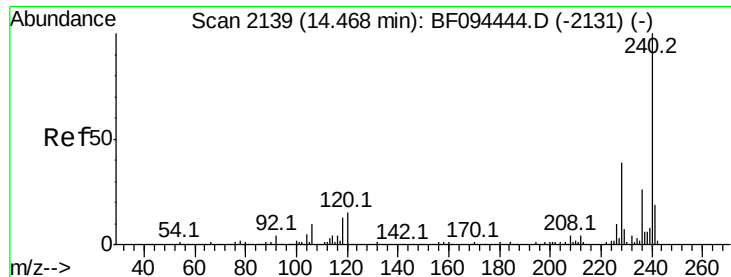


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.46 min Scan# 2129

Delta R.T. -0.01 min

Lab File: BF094498.D

Acq: 18 Apr 2017 20:42

Instrument :

BNA_F

ClientSampleId :

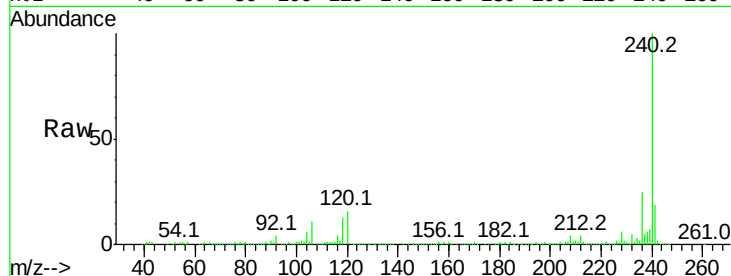
Tot Ion:240 Resp: 277435

Ion Ratio Lower Upper

240 100

120 15.9 5.8 8.8#

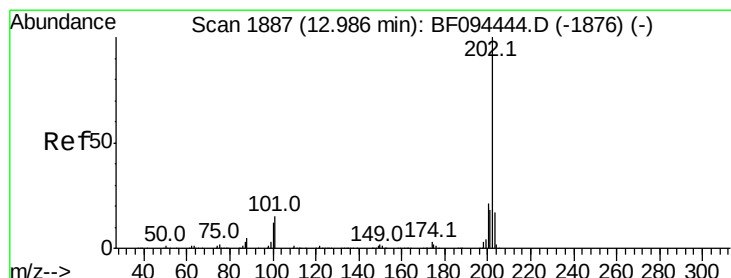
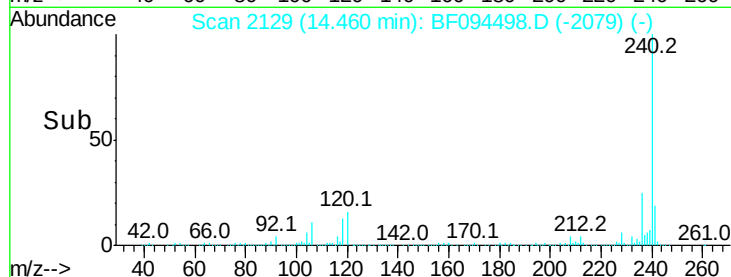
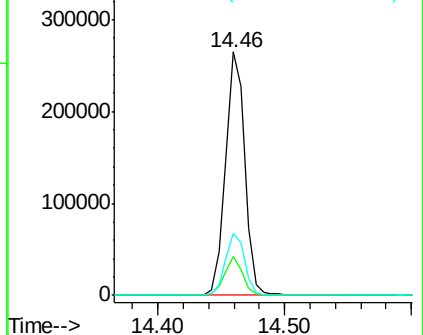
236 25.3 20.5 30.7



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 3.95 ng

RT: 12.98 min Scan# 1877

Delta R.T. -0.01 min

Lab File: BF094498.D

Acq: 18 Apr 2017 20:42

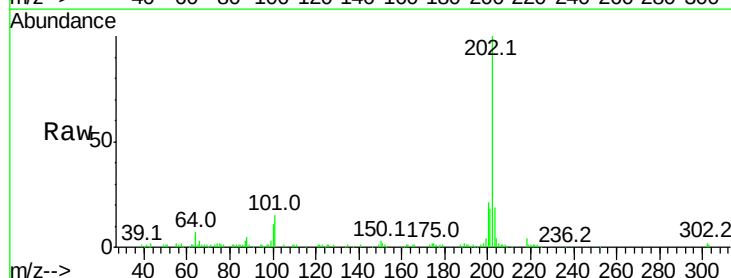
Tgt Ion:202 Resp: 76532

Ion Ratio Lower Upper

202 100

200 21.3 17.6 26.4

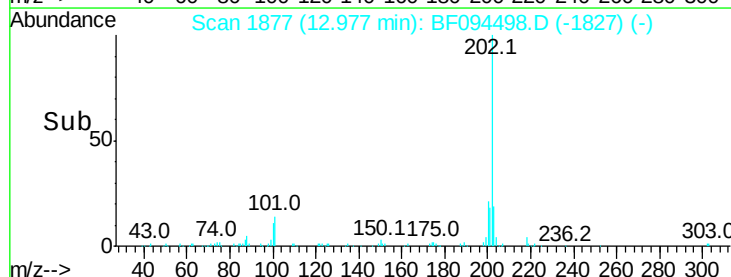
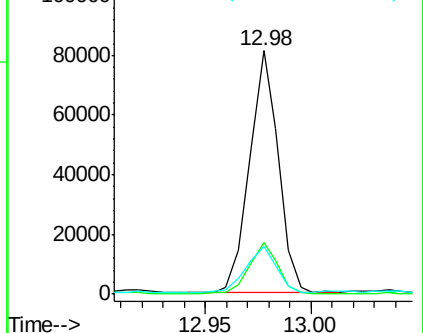
203 19.4 14.4 21.6

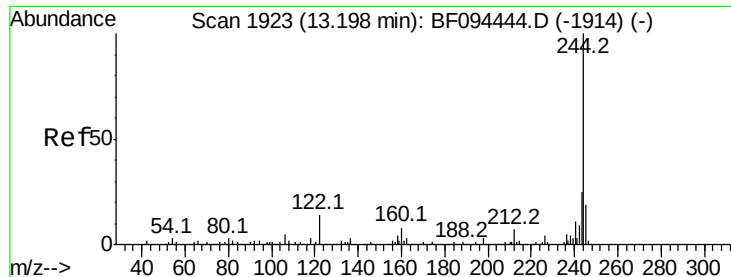


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 77.28 ng

RT: 13.19 min Scan# 1914

Delta R.T. -0.00 min

Lab File: BF094498.D

Acq: 18 Apr 2017 20:42

Instrument :

BNA_F

ClientSampleId :

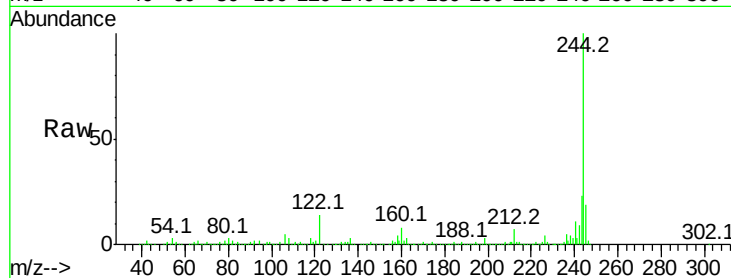
Tot Ion:244 Resp: 802134

Ion Ratio Lower Upper

244 100

212 7.2 6.0 9.0

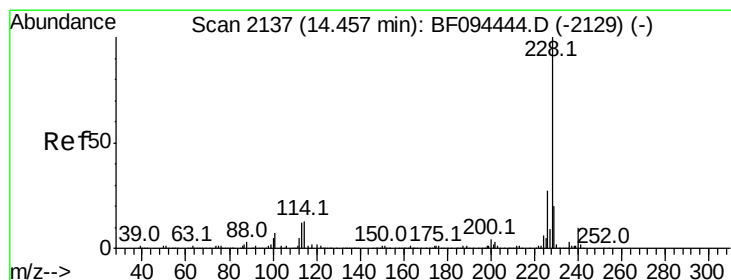
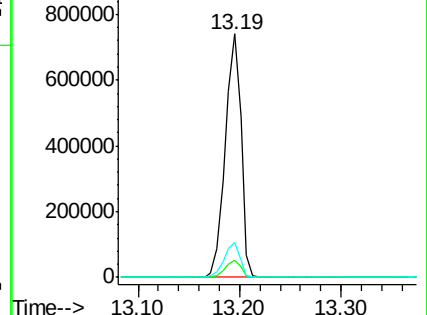
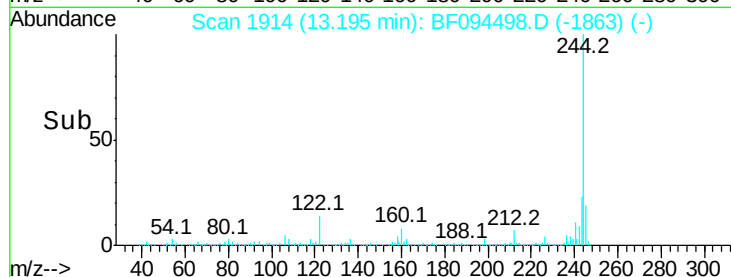
122 14.3 10.3 15.5



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 3.30 ng

RT: 14.45 min Scan# 2127

Delta R.T. -0.01 min

Lab File: BF094498.D

Acq: 18 Apr 2017 20:42

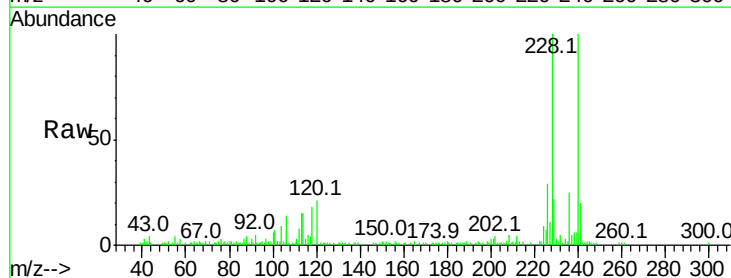
Tgt Ion:228 Resp: 53137

Ion Ratio Lower Upper

228 100

226 29.5 22.6 33.8

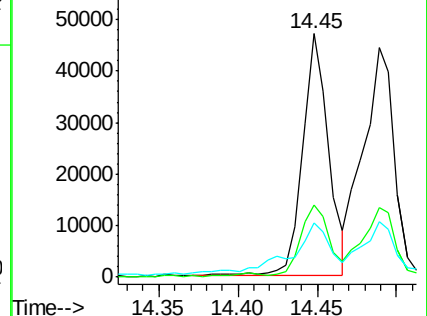
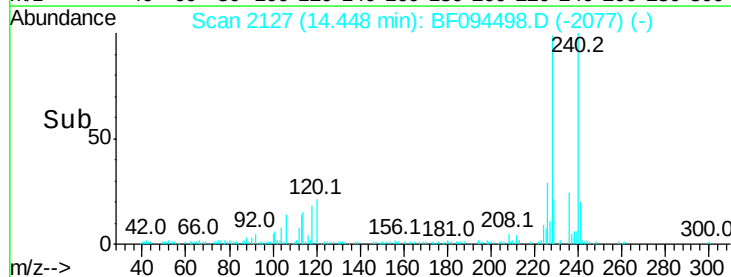
229 22.3 16.3 24.5

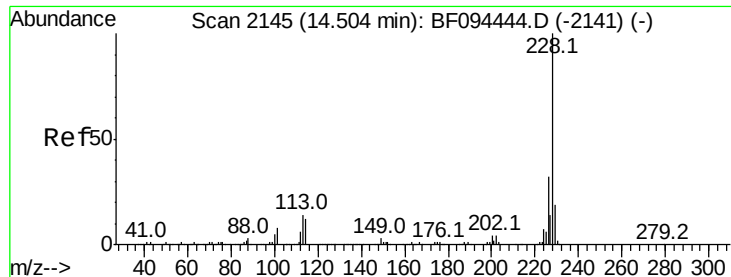


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 3.61 ng

RT: 14.45 min Scan# 2127

Delta R.T. -0.06 min

Lab File: BF094498.D

Acq: 18 Apr 2017 20:42

Instrument :

BNA_F

ClientSampleId :

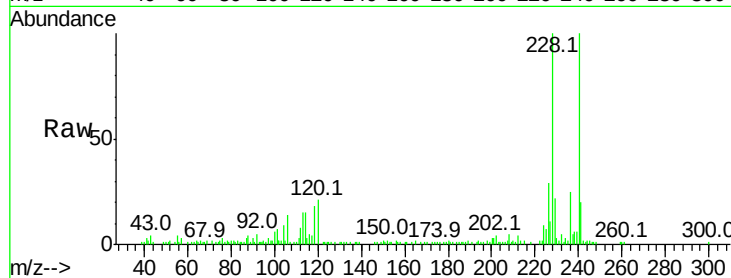
Tot Ion:228 Resp: 53137

Ion Ratio Lower Upper

228 100

226 29.5 24.9 37.3

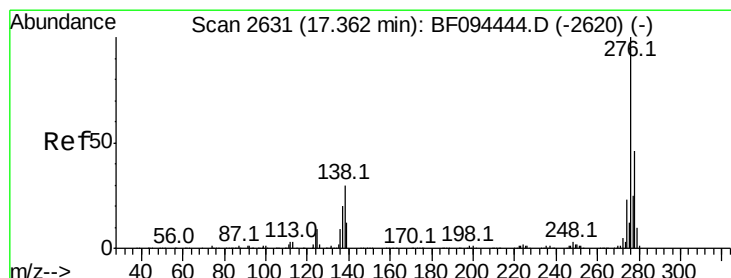
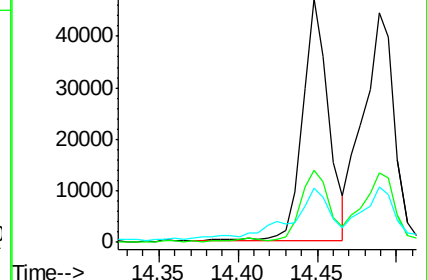
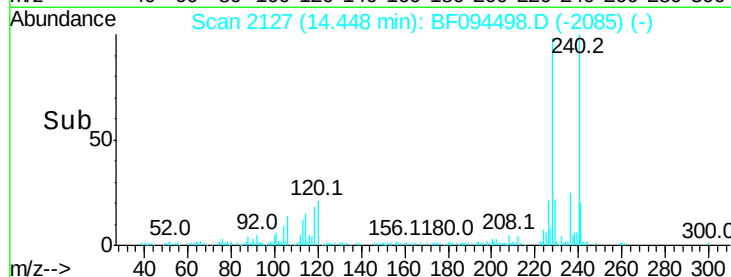
229 22.3 15.8 23.6



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



#85

Indeno(1,2,3-cd)pyrene

Concen: 3.35 ng

RT: 17.35 min Scan# 2621

Delta R.T. -0.01 min

Lab File: BF094498.D

Acq: 18 Apr 2017 20:42

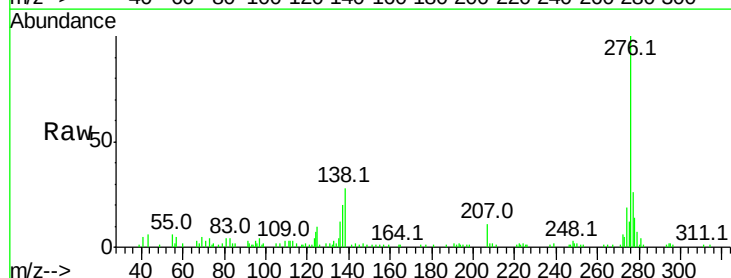
Tgt Ion:276 Resp: 46913

Ion Ratio Lower Upper

276 100

138 32.6 27.8 41.6

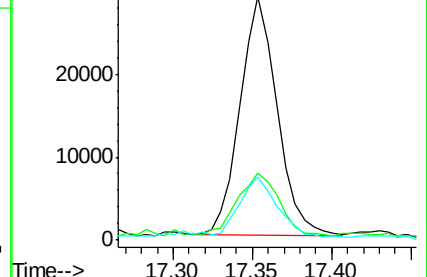
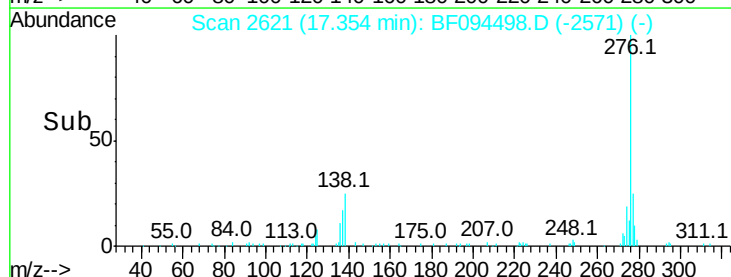
277 25.5 20.2 30.4

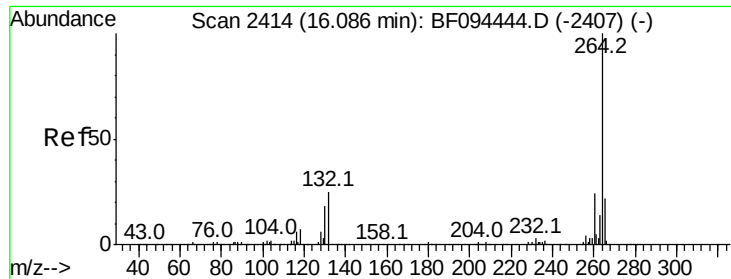


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

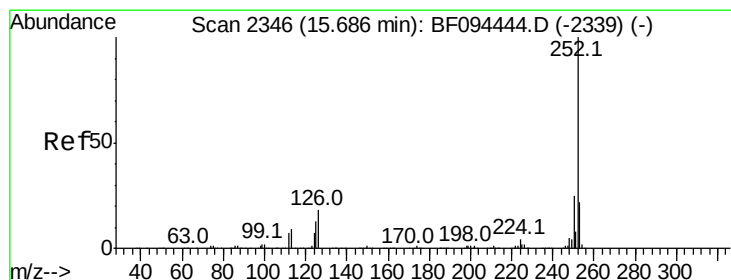
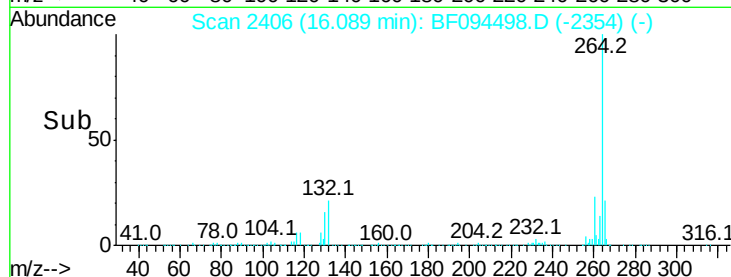
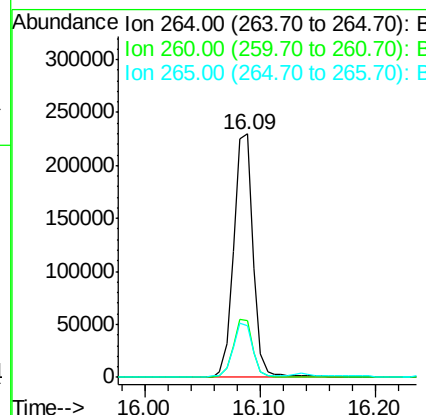
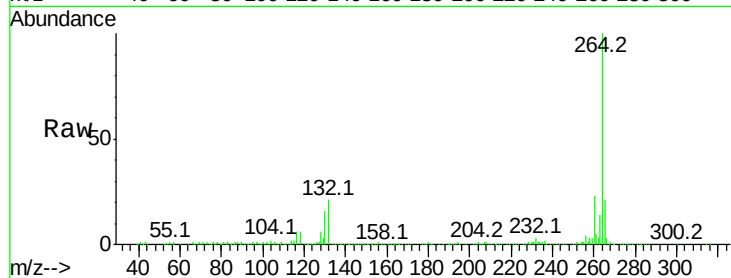




#86
Pervlene-d12
Concen: 20.00 ng
RT: 16.09 min Scan# 2406
Delta R.T. 0.00 min
Lab File: BF094498.D
Acq: 18 Apr 2017 20:42

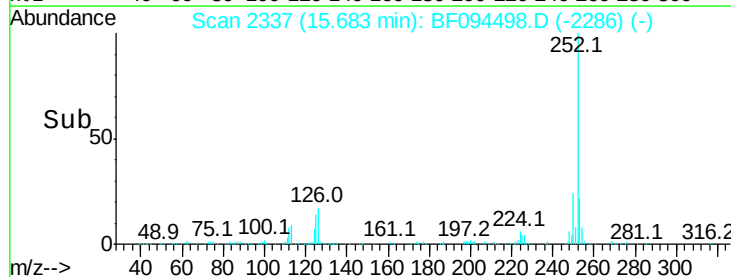
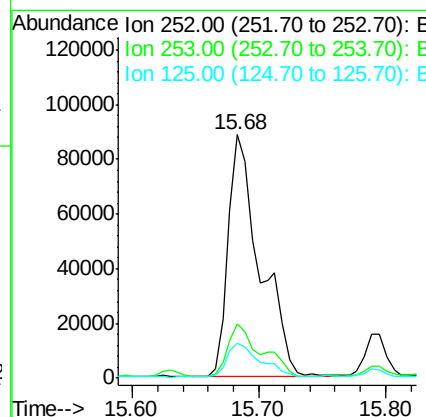
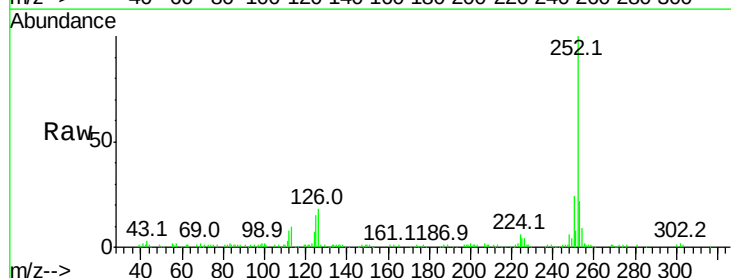
Instrument :
BNA_F
ClientSampleId :

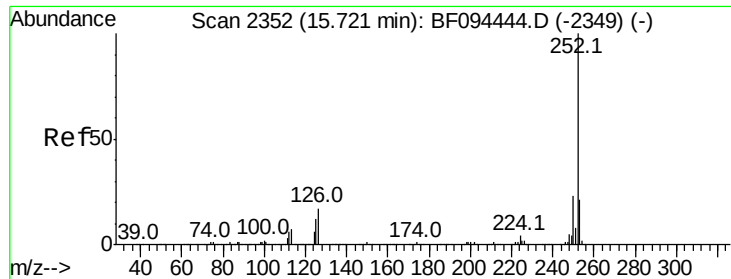
Tot Ion	Ratio	Lower	Upper
264	100		
260	23.1	19.5	29.3
265	21.2	17.2	25.8



#87
Benzo(b)fluoranthene
Concen: 9.55 ng
RT: 15.68 min Scan# 2337
Delta R.T. -0.00 min
Lab File: BF094498.D
Acq: 18 Apr 2017 20:42

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.4	18.1	27.1
125	14.5	9.8	14.8

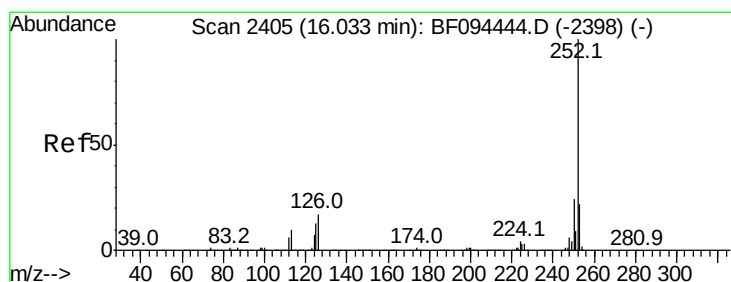
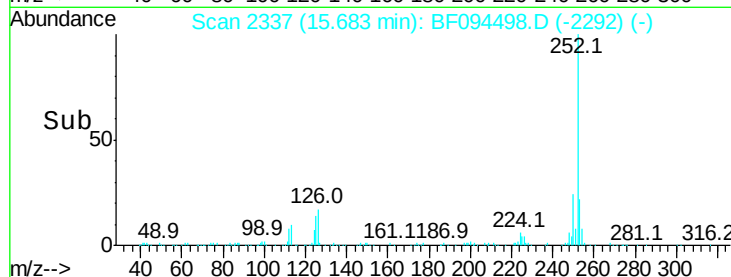
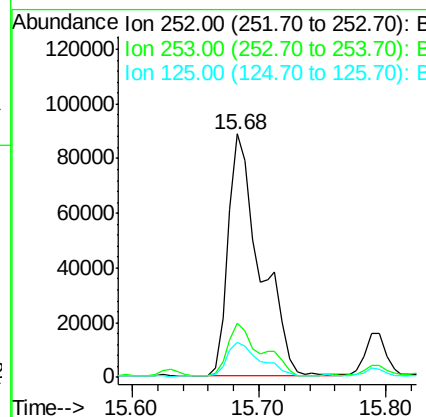
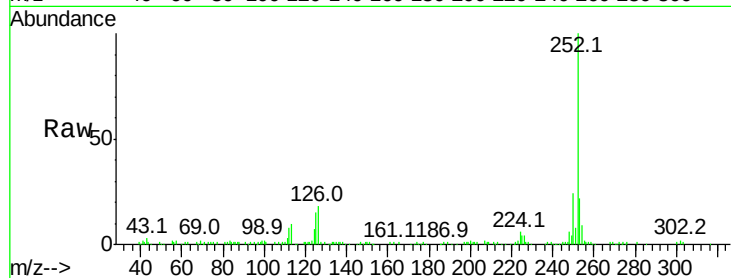




#88
Benzo(k)fluoranthene
Concen: 10.09 ng
RT: 15.68 min Scan# 2337
Delta R.T. -0.04 min
Lab File: BF094498.D
Acq: 18 Apr 2017 20:42

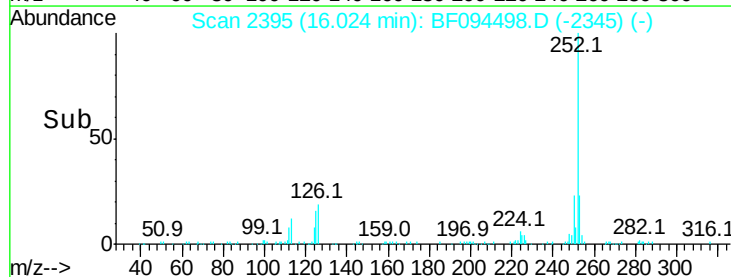
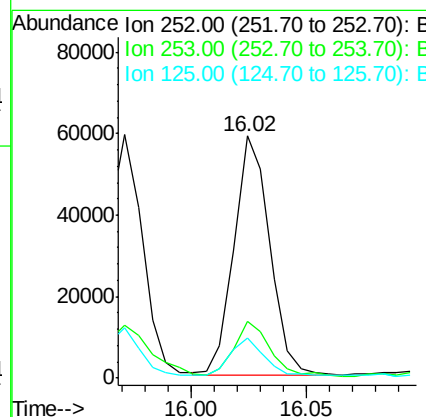
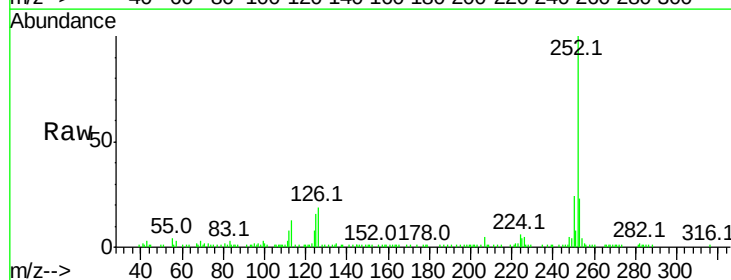
Instrument :
BNA_F
ClientSampleId :

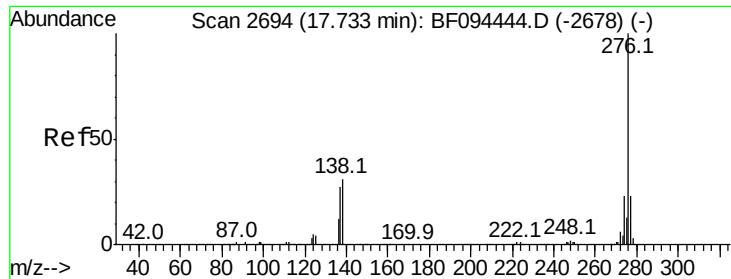
Tot Ion	Ratio	Lower	Upper
252	100		
253	22.4	18.4	27.6
125	14.5	13.1	19.7



#89
Benzo(a)pyrene
Concen: 4.19 ng
RT: 16.02 min Scan# 2395
Delta R.T. -0.01 min
Lab File: BF094498.D
Acq: 18 Apr 2017 20:42

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.5	26.3
125	16.5	11.0	16.4

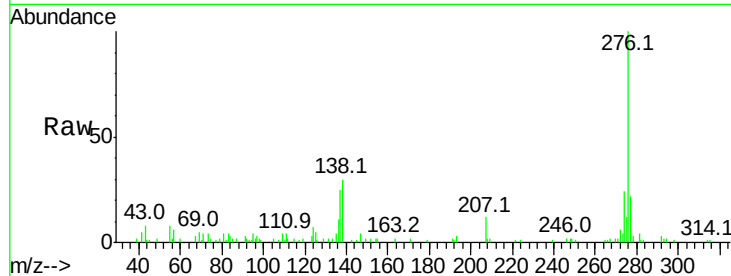




#91
 Benzo(a,h,i)perylene
 Concen: 3.79 ng
 RT: 17.72 min Scan# 2684
 Delta R.T. -0.01 min
 Lab File: BF094498.D
 Acq: 18 Apr 2017 20:42

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	22.4	18.6	28.0
138	29.9	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

