

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051217\  
 Data File : BF095115.D  
 Acq On : 12 May 2017 16:53  
 Operator : SJ/MA  
 Sample : I3098-03  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: May 12 18:00:39 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 03 17:24:51 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.70  | 152  | 89480    | 20.00 | ng    | -0.03    |
| 21) Naphthalene-d8        | 9.72  | 136  | 369569   | 20.00 | ng    | -0.04    |
| 38) Acenaphthene-d10      | 12.55 | 164  | 185081   | 20.00 | ng    | -0.04    |
| 63) Phenanthrene-d10      | 14.95 | 188  | 320872   | 20.00 | ng    | -0.04    |
| 75) Chrysene-d12          | 18.62 | 240  | 204510   | 20.00 | ng    | -0.03    |
| 86) Perylene-d12          | 20.29 | 264  | 160916   | 20.00 | ng    | -0.02    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.65  | 112  | 371951   | 69.30  | ng    | -0.03    |
| 7) Phenol-d6                | 7.26  | 99   | 275769   | 42.82  | ng    | -0.02    |
| 23) Nitrobenzene-d5         | 8.61  | 82   | 544996   | 92.99  | ng    | -0.03    |
| 41) 2,4,6-Tribromophenol    | 13.85 | 330  | 195695   | 129.11 | ng    | -0.04    |
| 44) 2-Fluorobiphenyl        | 11.50 | 172  | 1162977  | 90.44  | ng    | -0.04    |
| 78) Terphenyl-d14           | 17.28 | 244  | 866969   | 93.37  | ng    | -0.04    |

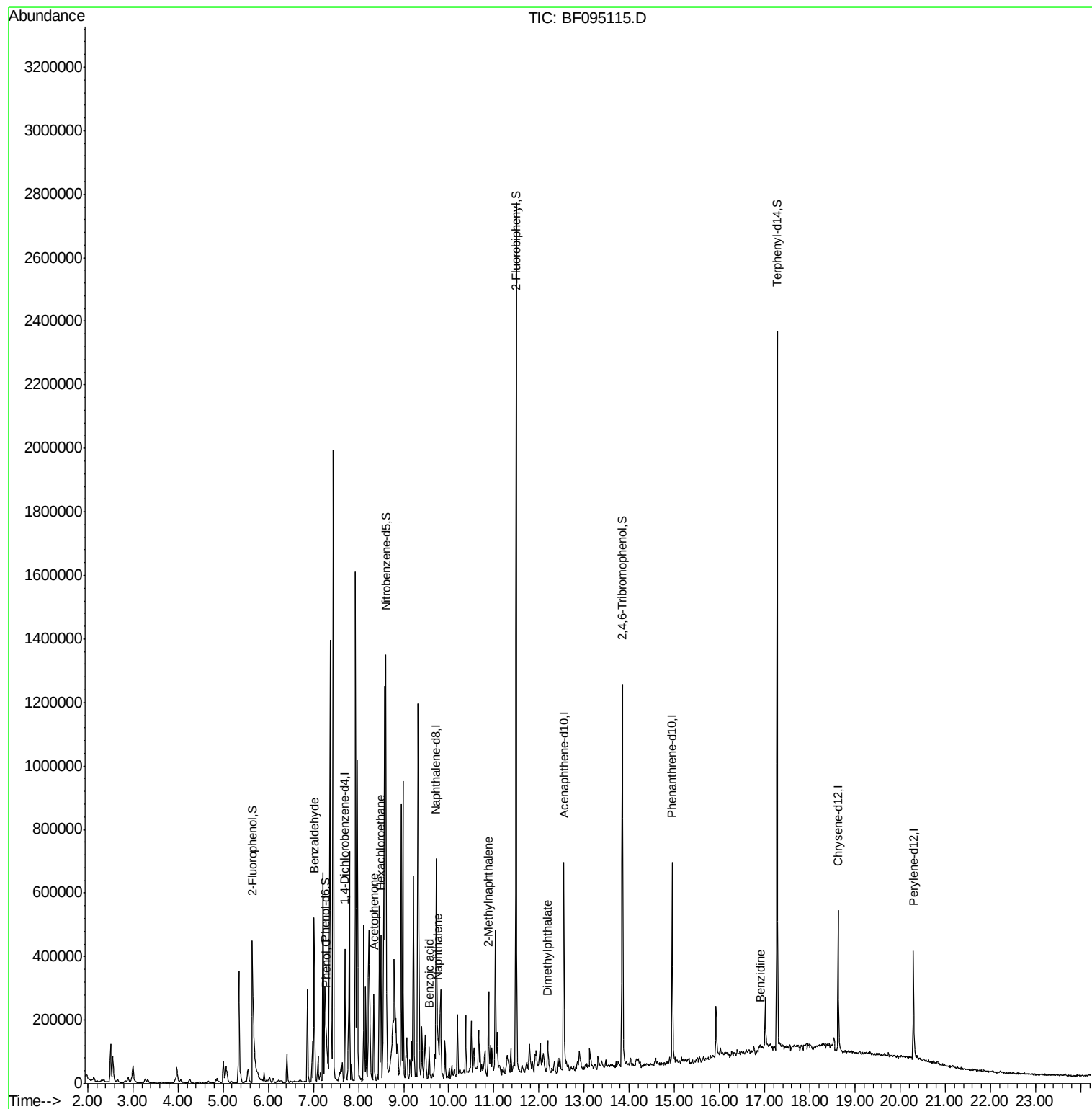
| Target Compounds        | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|-------------------------|-------|------|----------|-------|-------|--------|
| 9) Benzaldehyde         | 7.02  | 77   | 29242    | 7.44  | ng    | # 1    |
| 10) Phenol              | 7.29  | 94   | 14977    | 2.21  | ng    | # 70   |
| 18) Hexachloroethane    | 8.50  | 117  | 15784    | 6.63  | ng    | # 1    |
| 22) Acetophenone        | 8.34  | 105  | 151682   | 17.11 | ng    | # 49   |
| 31) Naphthalene         | 9.75  | 128  | 86896    | 4.68  | ng    | # 97   |
| 32) Benzoic acid        | 9.58  | 122  | 627      | 5.24  | ng    | # 42   |
| 37) 2-Methylnaphthalene | 10.88 | 142  | 93111    | 7.64  | ng    | # 97   |
| 49) Dimethylphthalate   | 12.19 | 163  | 43836    | 2.89  | ng    | # 93   |
| 76) Benzidine           | 16.91 | 184  | 112      | 6.61  | ng    | # 1    |

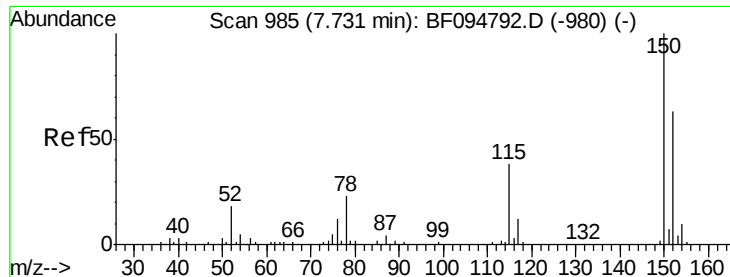
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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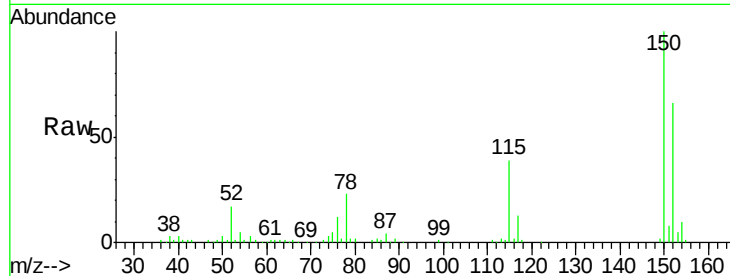


#1

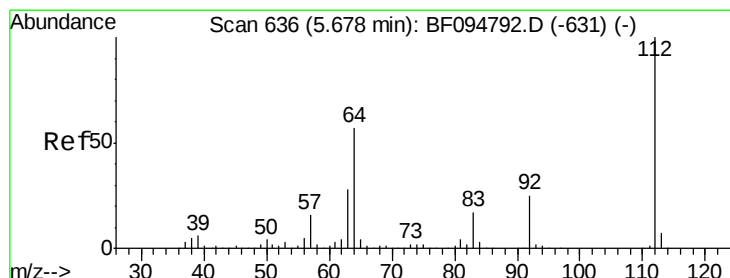
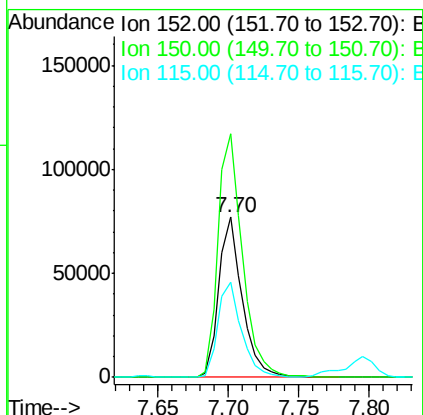
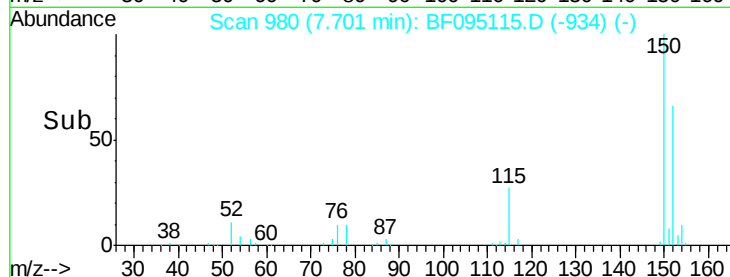
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 7.70 min Scan# 980  
Delta R.T. -0.03 min  
Lab File: BF095115.D  
Acq: 12 May 2017 16:53

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 89480  
Ion Ratio Lower Upper  
152 100  
150 151.9 126.2 189.2  
115 59.2 52.2 78.2



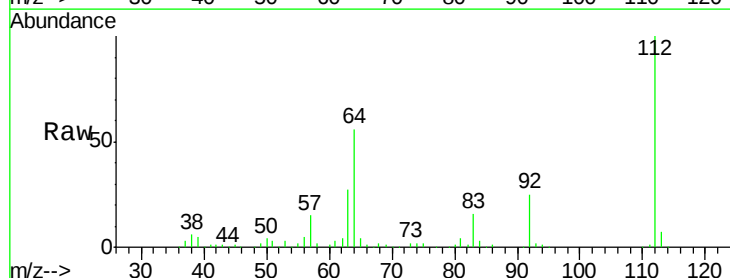
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



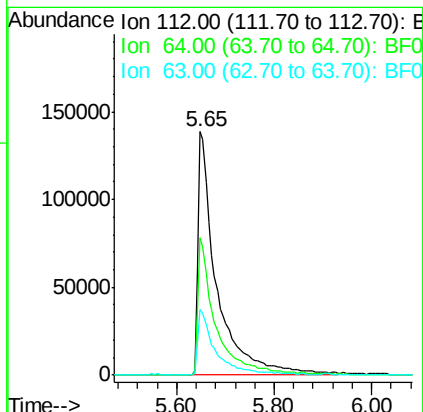
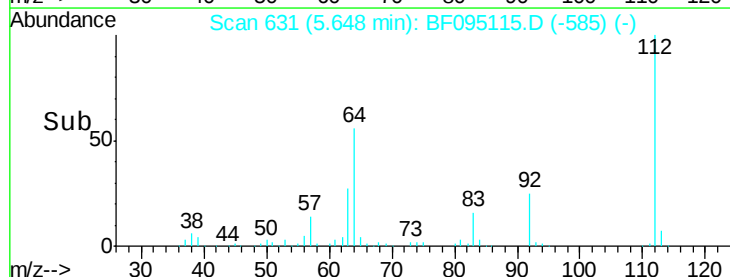
#5

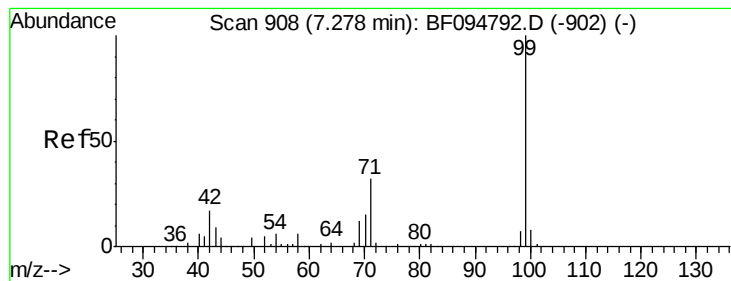
2-Fluorophenol  
Concen: 69.30 ng  
RT: 5.65 min Scan# 631  
Delta R.T. -0.03 min  
Lab File: BF095115.D  
Acq: 12 May 2017 16:53

Tgt Ion:112 Resp: 371951  
Ion Ratio Lower Upper  
112 100  
64 56.3 46.0 69.0  
63 27.2 23.4 35.0



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BF0  
Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 42.82 ng

RT: 7.26 min Scan# 905

Delta R.T. -0.02 min

Lab File: BF095115.D

Acq: 12 May 2017 16:53

Instrument :

BNA\_F

ClientSampled :

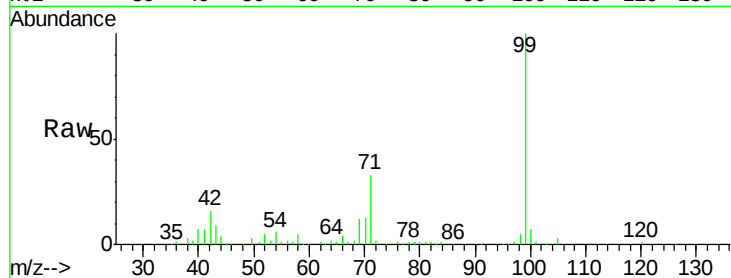
Tot Ion: 99 Resp: 275769

Ion Ratio Lower Upper

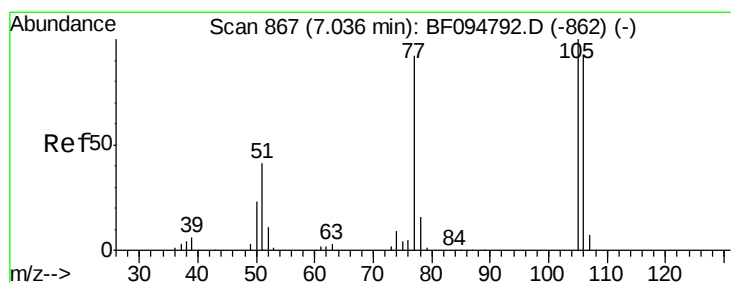
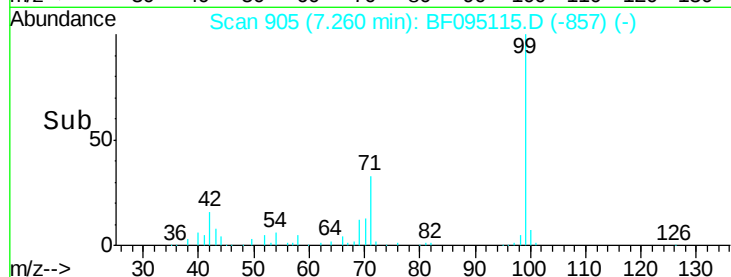
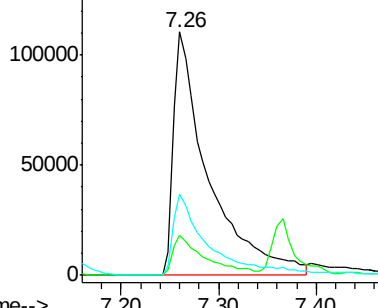
99 100

42 16.3 13.5 20.3

71 33.1 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



#9

Benzaldehyde

Concen: 7.44 ng

RT: 7.02 min Scan# 864

Delta R.T. -0.02 min

Lab File: BF095115.D

Acq: 12 May 2017 16:53

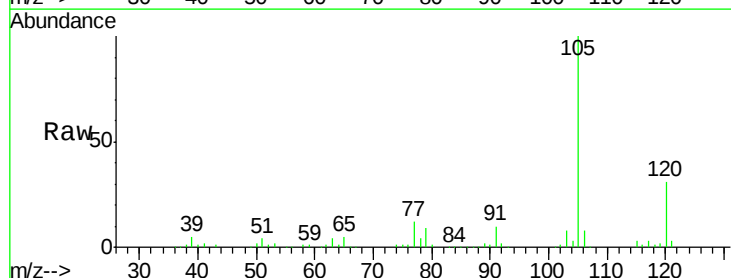
Tgt Ion: 77 Resp: 29242

Ion Ratio Lower Upper

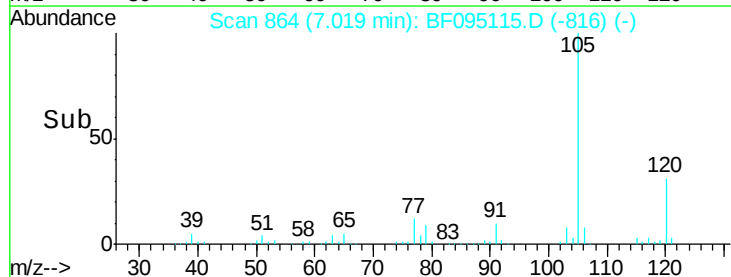
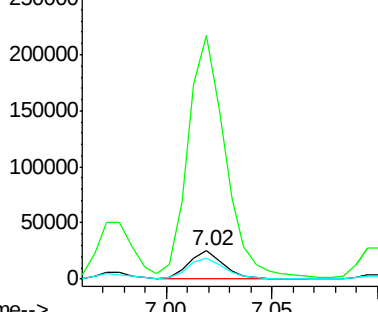
77 100

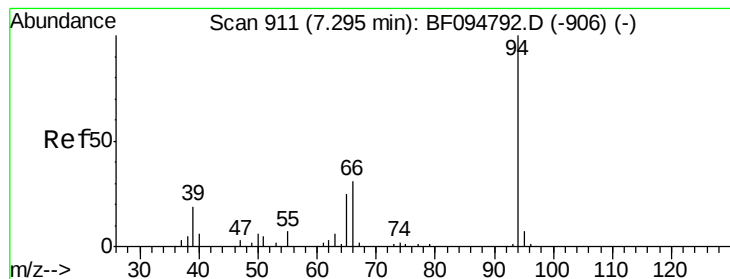
105 866.2 83.8 123.8#

106 72.4 79.1 119.1#



Abundance Ion 77.00 (76.70 to 77.70): BF0  
Ion 105.00 (104.70 to 105.70): BF0  
Ion 106.00 (105.70 to 106.70): BF0





#10

Phenol

Concen: 2.21 ng

RT: 7.29 min Scan# 910

Delta R.T. -0.01 min

Lab File: BF095115.D

Acq: 12 May 2017 16:53

Instrument :

BNA\_F

ClientSampleId :

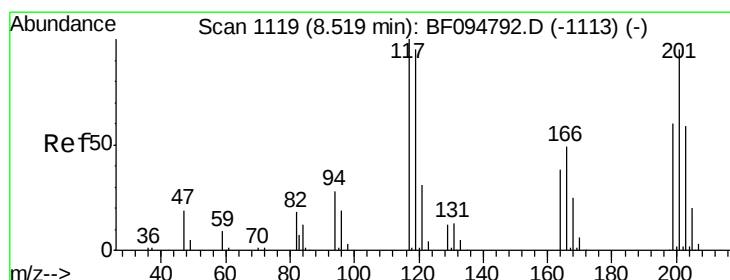
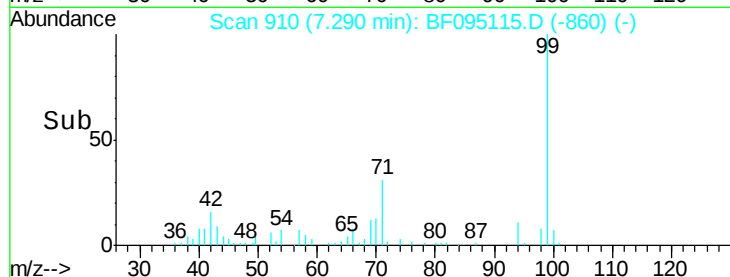
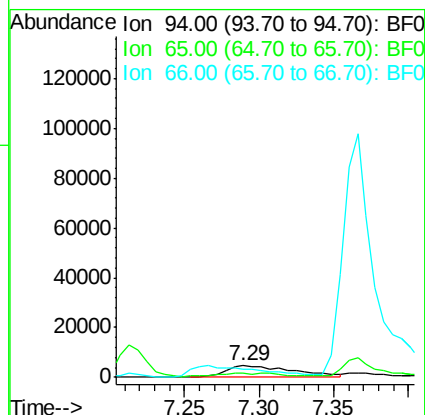
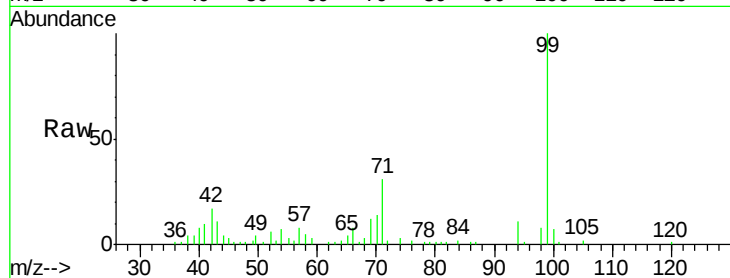
Tot Ion: 94 Resp: 14977

Ion Ratio Lower Upper

94 100

65 32.3 9.9 49.9

66 73.3 23.1 63.1#



#18

Hexachloroethane

Concen: 6.63 ng

RT: 8.50 min Scan# 1115

Delta R.T. -0.02 min

Lab File: BF095115.D

Acq: 12 May 2017 16:53

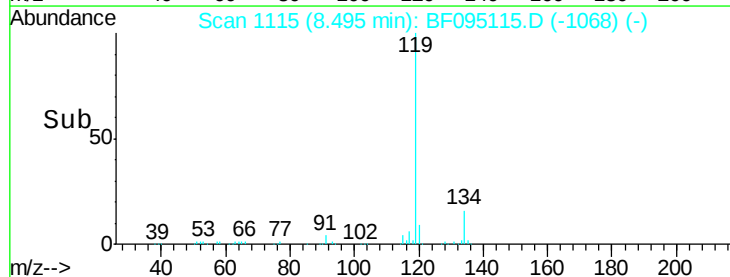
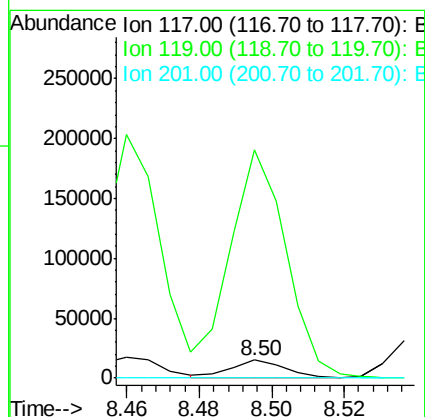
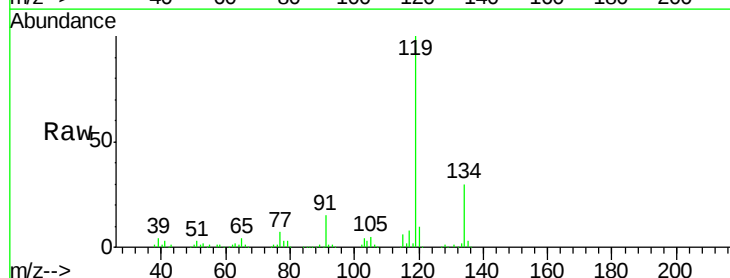
Tgt Ion: 117 Resp: 15784

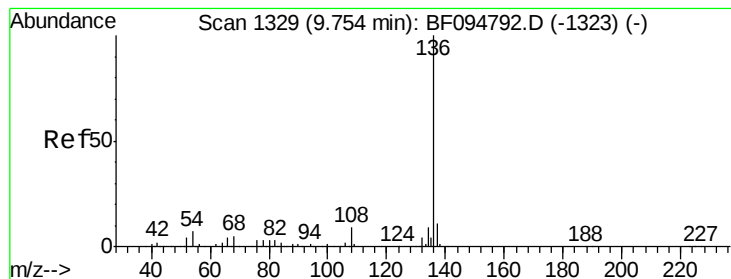
Ion Ratio Lower Upper

117 100

119 1261.4 77.4 116.0#

201 0.0 94.6 141.8#





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 9.72 min Scan# 1323

Delta R.T. -0.04 min

Lab File: BF095115.D

Acq: 12 May 2017 16:53

Instrument :

BNA\_F

ClientSampleId :

Tot Ion:136 Resp: 369569

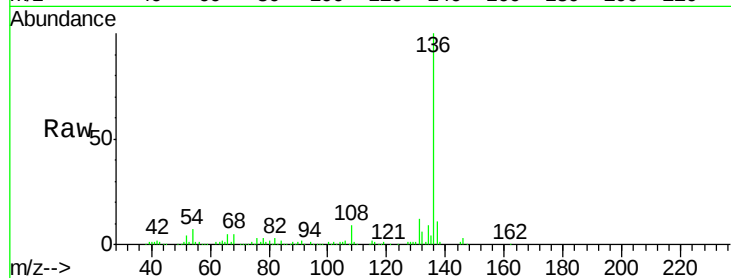
Ion Ratio Lower Upper

136 100

137 11.0 8.5 12.7

54 6.7 4.9 7.3

68 5.1 4.1 6.1

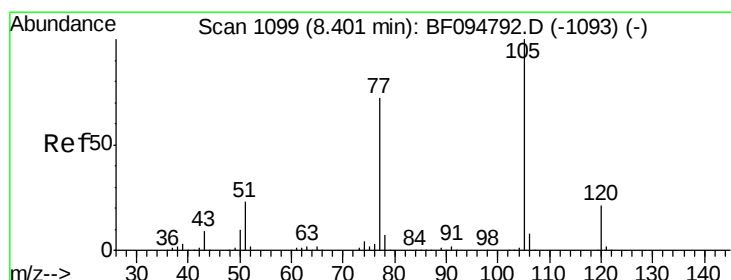
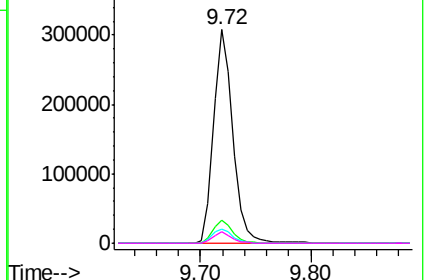
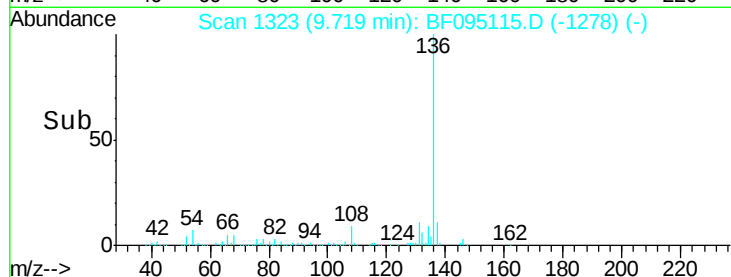


Abundance Ion 136.00 (135.70 to 136.70): E

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



#22

Acetophenone

Concen: 17.11 ng

RT: 8.34 min Scan# 1089

Delta R.T. -0.06 min

Lab File: BF095115.D

Acq: 12 May 2017 16:53

Tgt Ion:105 Resp: 151682

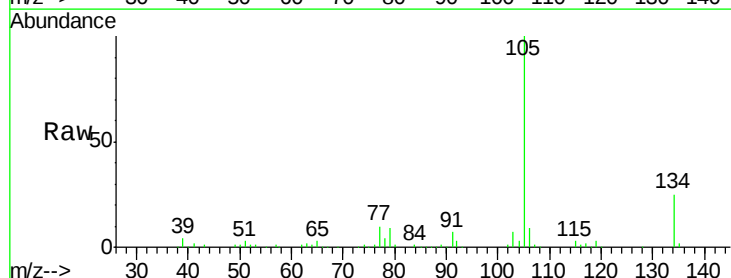
Ion Ratio Lower Upper

105 100

71 0.0 2.8 4.2#

51 3.4 30.7 46.1#

120 0.4 17.4 26.0#

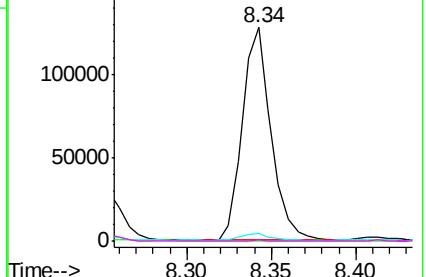
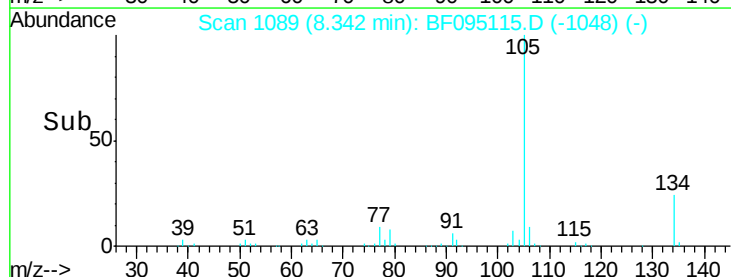


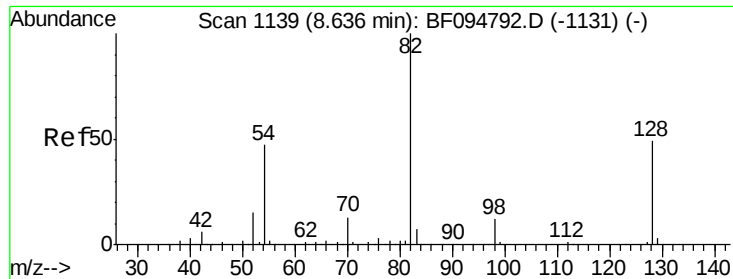
Abundance Ion 105.00 (104.70 to 105.70): E

Ion 71.00 (70.70 to 71.70): BF0

Ion 51.00 (50.70 to 51.70): BF0

Ion 120.00 (119.70 to 120.70): E

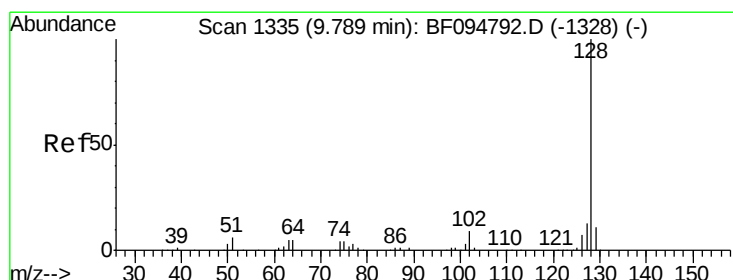
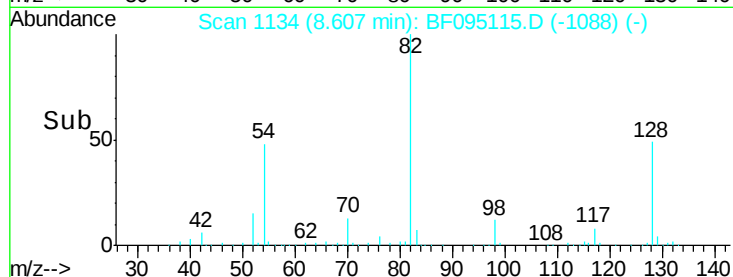
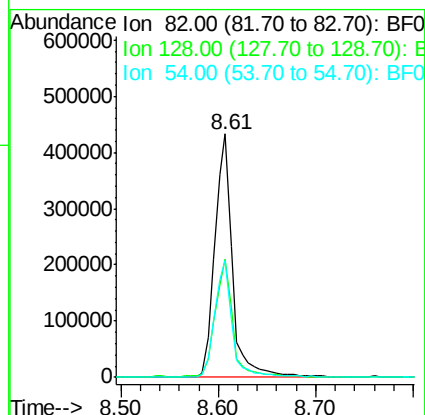
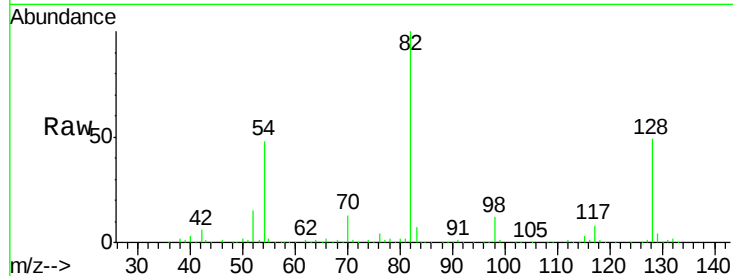




#23  
Nitrobenzene-d5  
Concen: 92.99 ng  
RT: 8.61 min Scan# 1134  
Delta R.T. -0.03 min  
Lab File: BF095115.D  
Acq: 12 May 2017 16:53

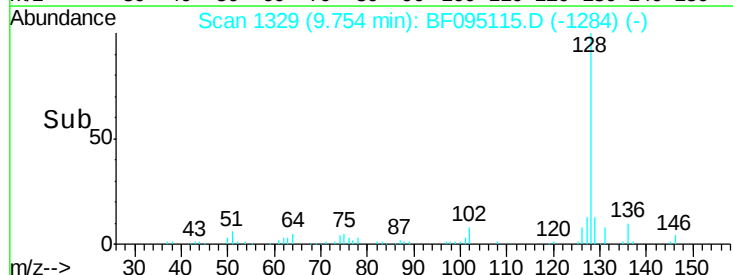
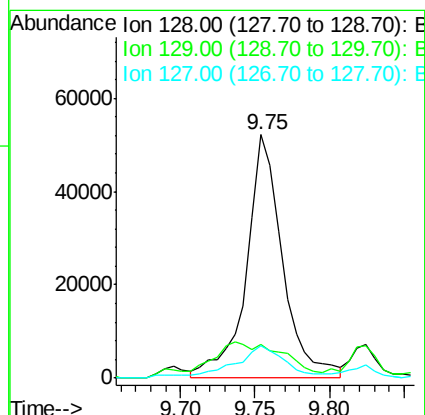
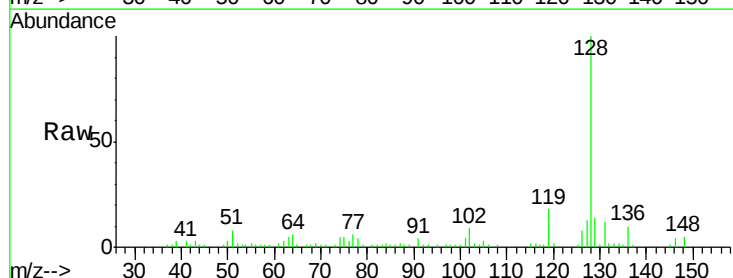
Instrument :  
BNA\_F  
ClientSampled :

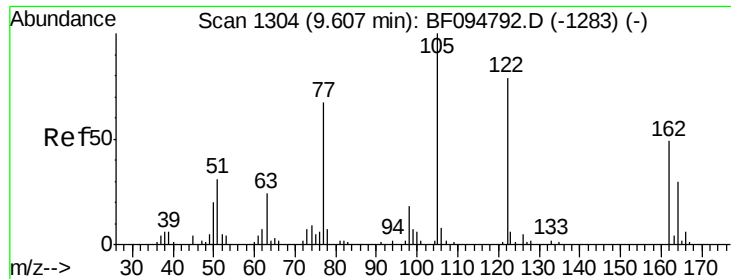
Tot Ion: 82 Resp: 544996  
Ion Ratio Lower Upper  
82 100  
128 48.7 34.0 51.0  
54 47.9 42.2 63.2



#31  
Naphthalene  
Concen: 4.68 ng  
RT: 9.75 min Scan# 1329  
Delta R.T. -0.04 min  
Lab File: BF095115.D  
Acq: 12 May 2017 16:53

Tgt Ion: 128 Resp: 86896  
Ion Ratio Lower Upper  
128 100  
129 13.6 9.0 13.6#  
127 13.1 10.8 16.2

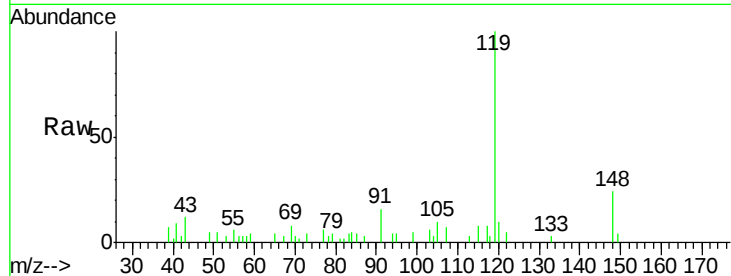




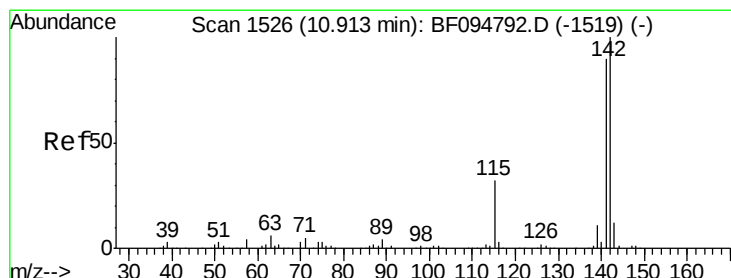
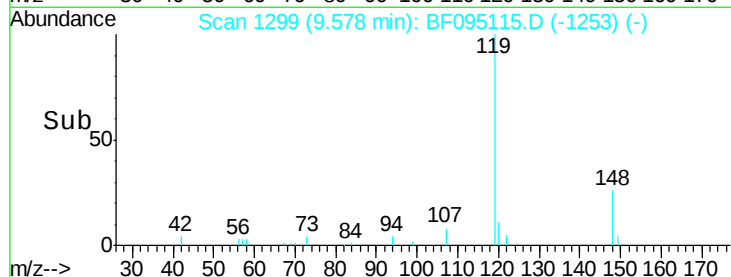
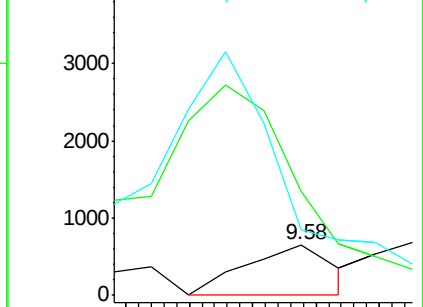
#32  
Benzoic acid  
Concen: 5.24 ng  
RT: 9.58 min Scan# 1299  
Delta R.T. -0.03 min  
Lab File: BF095115.D  
Acq: 12 May 2017 16:53

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:122 Resp: 627  
Ion Ratio Lower Upper  
122 100  
105 206.3 103.3 143.3#  
77 130.2 73.7 113.7#

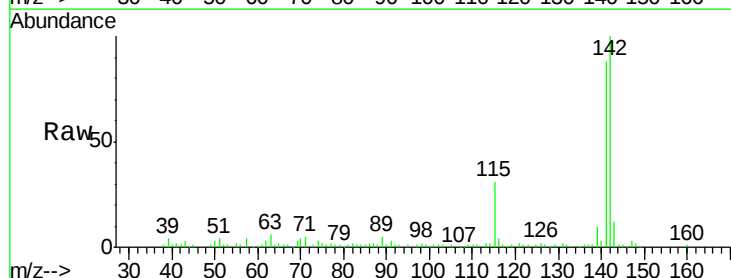


Abundance Ion 122.00 (121.70 to 122.70): E  
Ion 105.00 (104.70 to 105.70): E  
Ion 77.00 (76.70 to 77.70): BF0

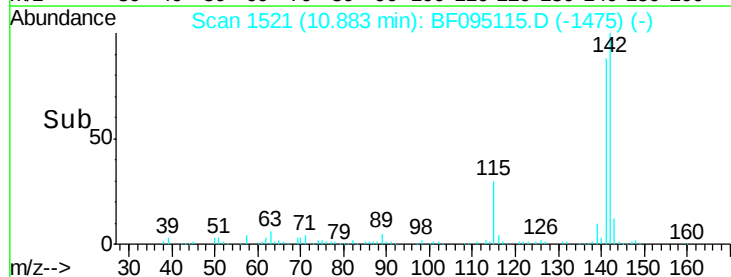
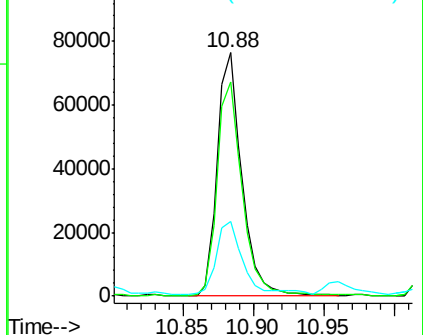


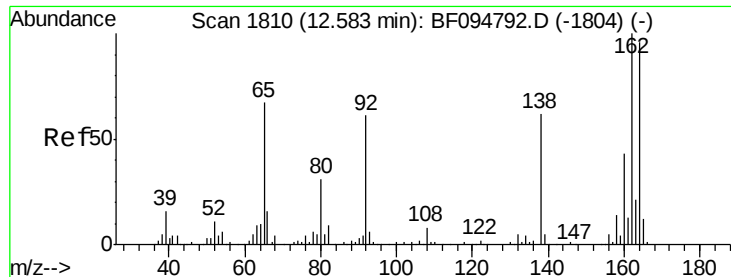
#37  
2-Methylnaphthalene  
Concen: 7.64 ng  
RT: 10.88 min Scan# 1521  
Delta R.T. -0.03 min  
Lab File: BF095115.D  
Acq: 12 May 2017 16:53

Tgt Ion:142 Resp: 93111  
Ion Ratio Lower Upper  
142 100  
141 87.7 71.3 106.9  
115 30.8 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

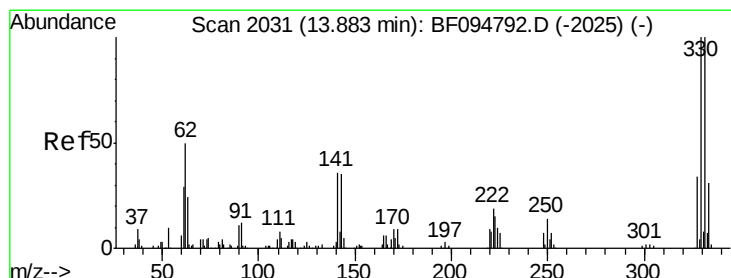
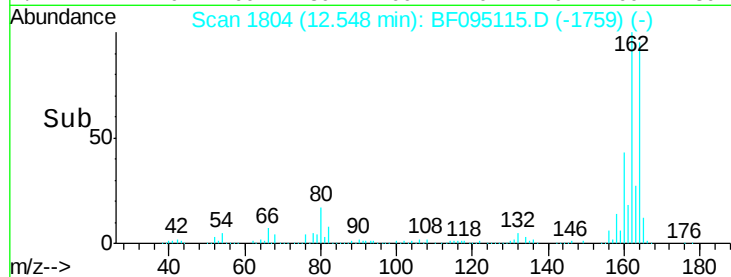
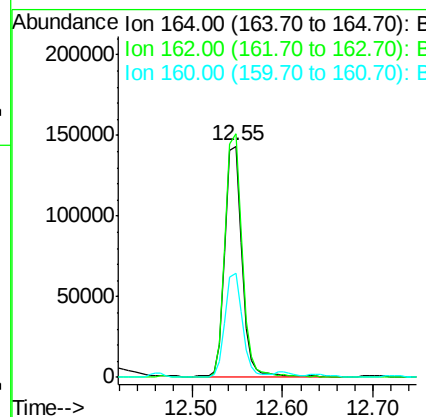
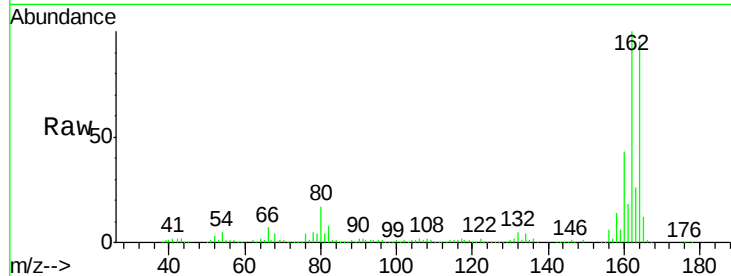




#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 12.55 min Scan# 1804  
Delta R.T. -0.04 min  
Lab File: BF095115.D  
Acq: 12 May 2017 16:53

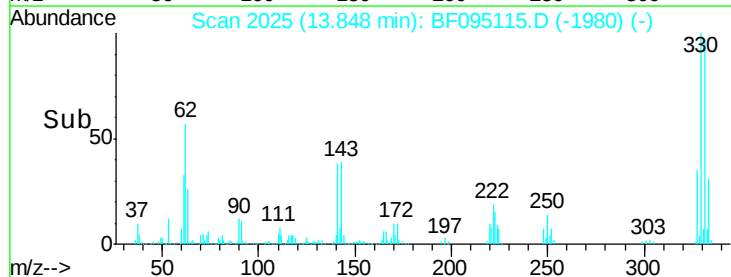
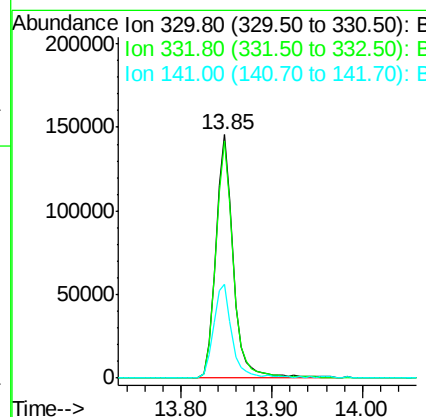
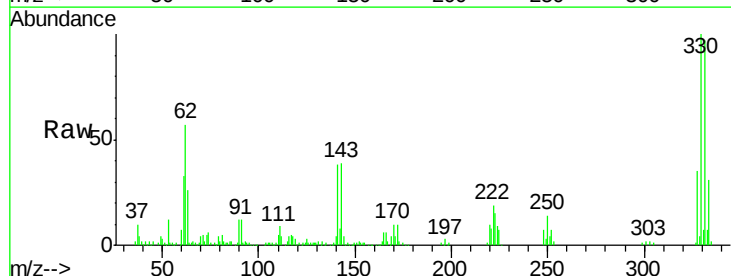
Instrument :  
BNA\_F  
ClientSampleId :

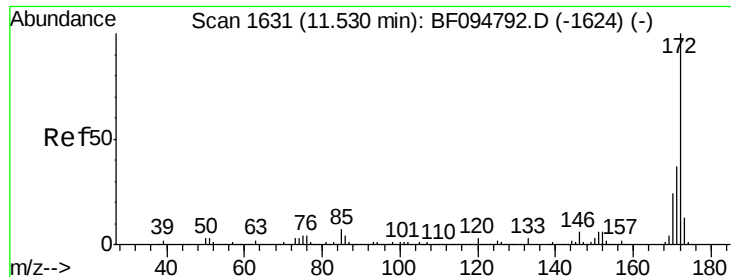
Tot Ion:164 Resp: 185081  
Ion Ratio Lower Upper  
164 100  
162 105.2 82.6 123.8  
160 44.9 36.2 54.2



#41  
2,4,6-Tribromophenol  
Concen: 129.11 ng  
RT: 13.85 min Scan# 2025  
Delta R.T. -0.04 min  
Lab File: BF095115.D  
Acq: 12 May 2017 16:53

Tgt Ion:330 Resp: 195695  
Ion Ratio Lower Upper  
330 100  
332 97.4 76.6 115.0  
141 40.9 31.4 47.2

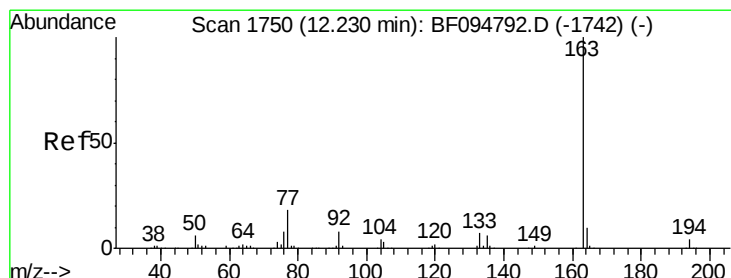
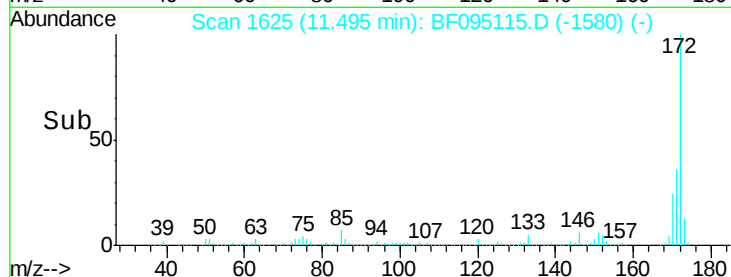
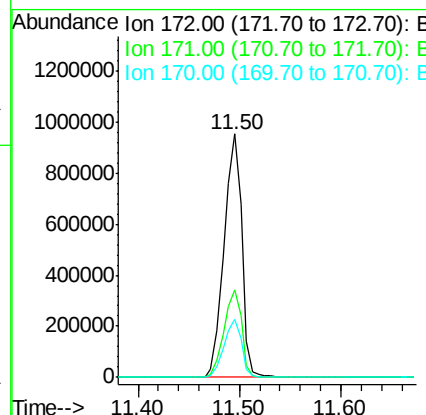
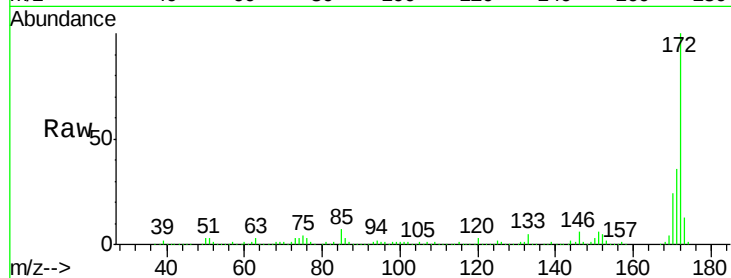




#44  
2-Fluorobiphenyl  
Concen: 90.44 ng  
RT: 11.50 min Scan# 1625  
Delta R.T. -0.04 min  
Lab File: BF095115.D  
Acq: 12 May 2017 16:53

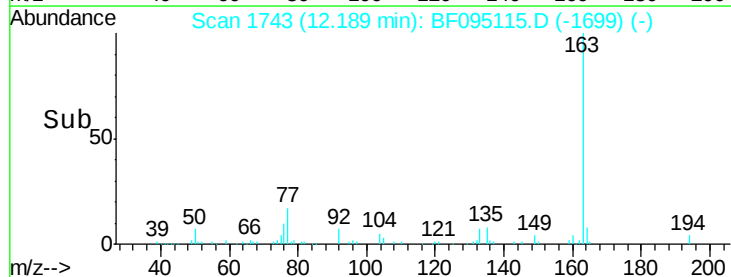
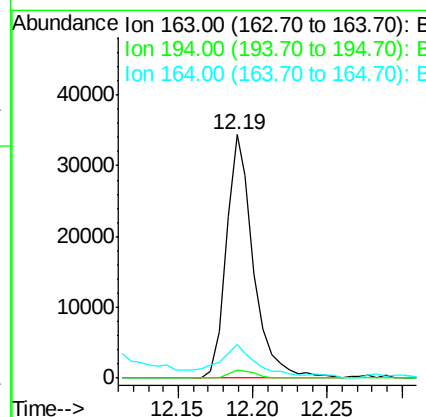
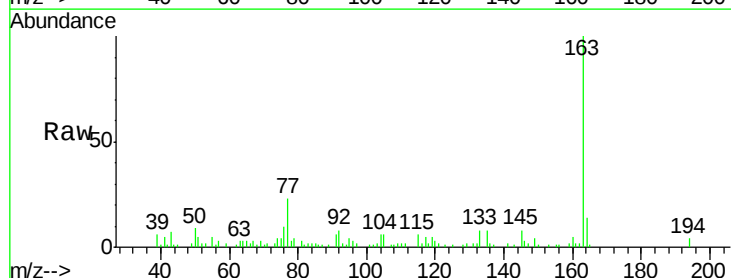
Instrument :  
BNA\_F  
ClientSampleId :

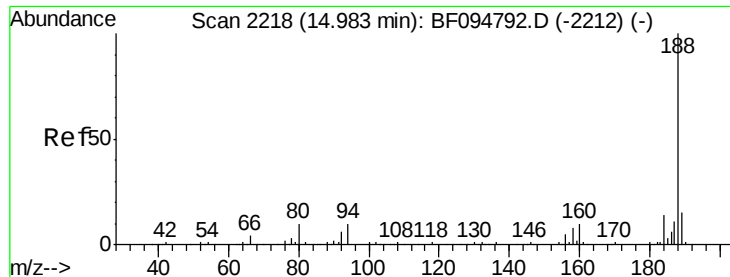
Tot Ion:172 Resp: 1162977  
Ion Ratio Lower Upper  
172 100  
171 36.0 29.6 44.4  
170 23.6 19.8 29.8



#49  
Dimethylphthalate  
Concen: 2.89 ng  
RT: 12.19 min Scan# 1743  
Delta R.T. -0.04 min  
Lab File: BF095115.D  
Acq: 12 May 2017 16:53

Tgt Ion:163 Resp: 43836  
Ion Ratio Lower Upper  
163 100  
194 3.5 2.6 4.0  
164 13.8 8.4 12.6#





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 14.95 min Scan# 2212

Delta R.T. -0.04 min

Lab File: BF095115.D

Acq: 12 May 2017 16:53

Instrument :

BNA\_F

ClientSampleId :

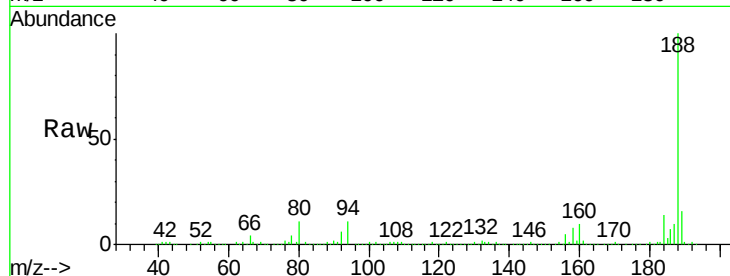
Tot Ion:188 Resp: 320872

Ion Ratio Lower Upper

188 100

94 10.9 9.4 14.2

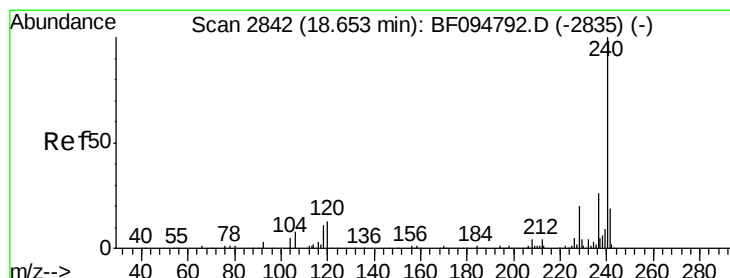
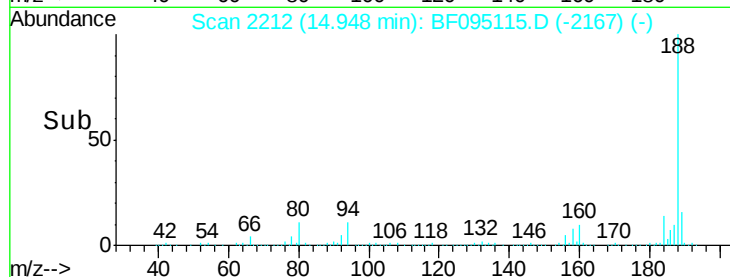
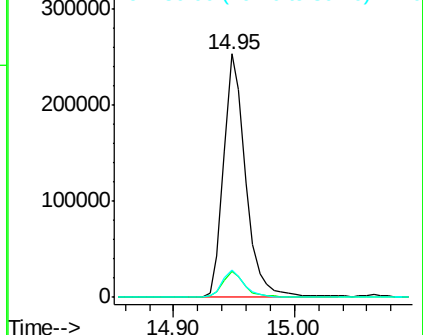
80 11.4 10.2 15.2



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



#75

Chrysene-d12

Concen: 20.00 ng

RT: 18.62 min Scan# 2837

Delta R.T. -0.03 min

Lab File: BF095115.D

Acq: 12 May 2017 16:53

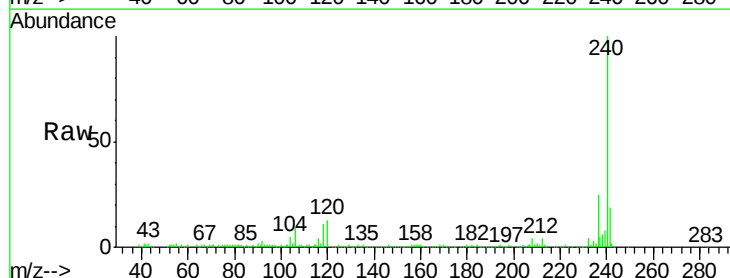
Tgt Ion:240 Resp: 204510

Ion Ratio Lower Upper

240 100

120 13.2 5.8 8.8#

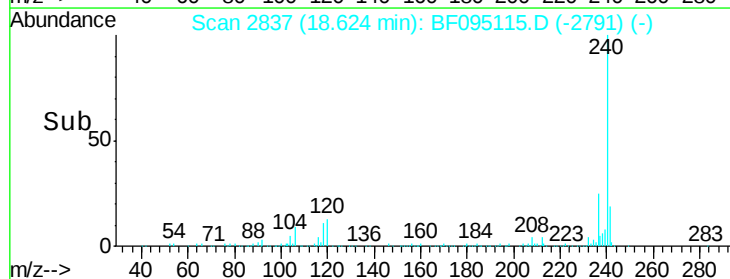
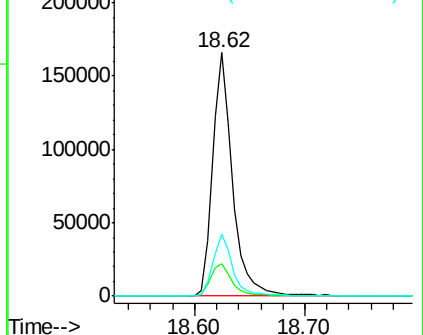
236 25.3 20.5 30.7

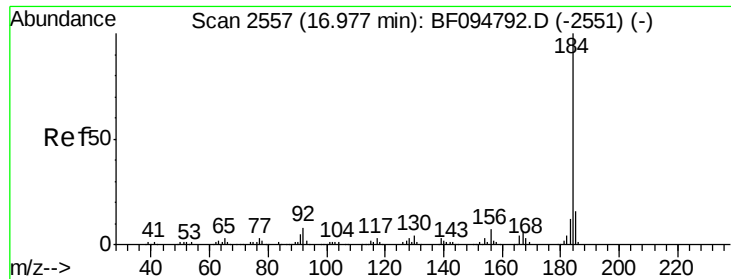


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#76

Benzidine

Concen: 6.61 ng

RT: 16.91 min Scan# 2546

Delta R.T. -0.06 min

Lab File: BF095115.D

Acq: 12 May 2017 16:53

Instrument :

BNA\_F

ClientSampleId :

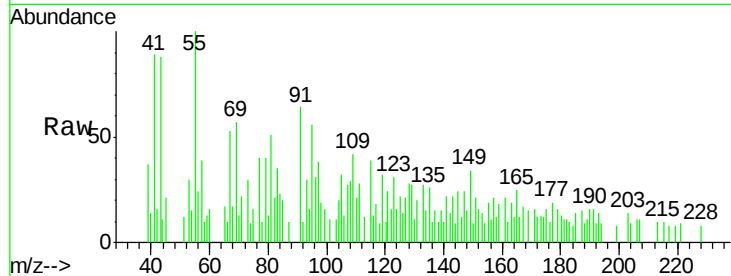
Tot Ion:184 Resp: 112

Ion Ratio Lower Upper

184 100

185 167.4 15.5 23.3#

183 123.4 9.8 14.6#



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E

800

600

400

200

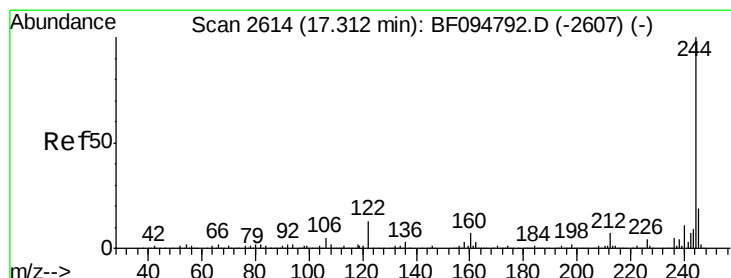
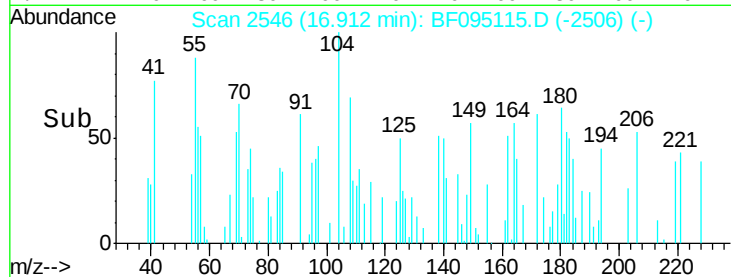
0

16.90

16.91

16.92

Time-->



#78

Terphenyl-d14

Concen: 93.37 ng

RT: 17.28 min Scan# 2608

Delta R.T. -0.04 min

Lab File: BF095115.D

Acq: 12 May 2017 16:53

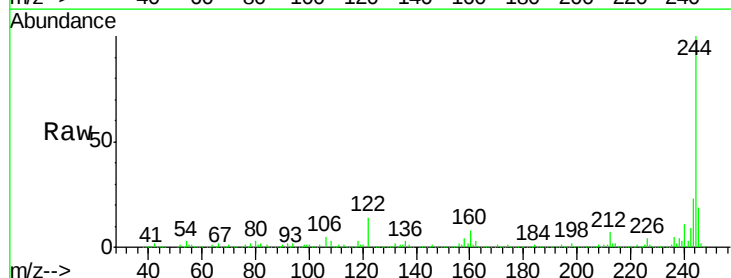
Tgt Ion:244 Resp: 866969

Ion Ratio Lower Upper

244 100

212 7.3 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

1000000

800000

600000

400000

200000

0

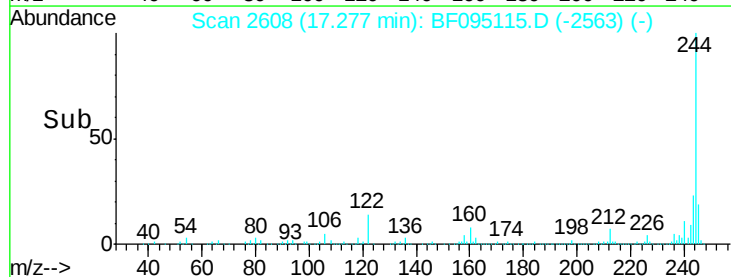
17.20

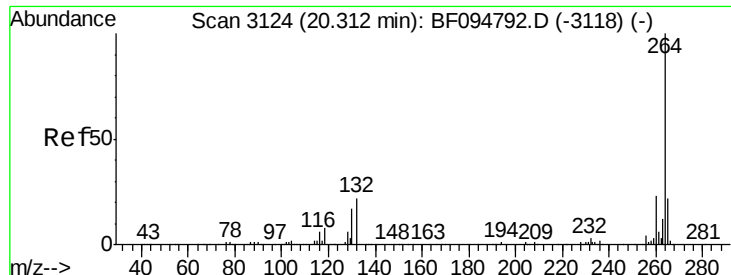
17.28

17.30

17.40

Time-->

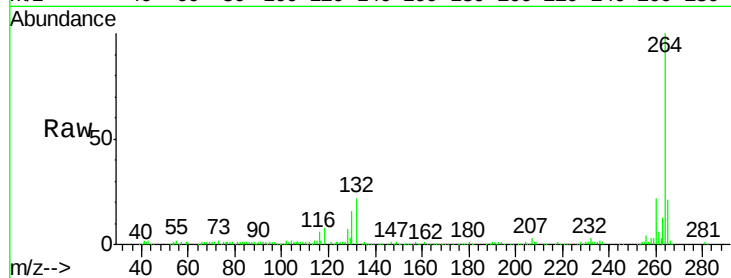




#86  
 Pervlene-d12  
 Concen: 20.00 ng  
 RT: 20.29 min Scan# 3121  
 Delta R.T. -0.02 min  
 Lab File: BF095115.D  
 Acq: 12 May 2017 16:53

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 22.5  | 19.5  | 29.3  |
| 265     | 21.4  | 17.2  | 25.8  |



Abundance Ion 264.00 (263.70 to 264.70): E  
 Ion 260.00 (259.70 to 260.70): E  
 Ion 265.00 (264.70 to 265.70): E

