

Data Path : Z:\HPCHEM1\BNA F\DATA\BF050917\  
 Data File : BF095045.D  
 Acq On : 10 May 2017 3:36  
 Operator : SJ/MA  
 Sample : I2892-06  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: May 10 05:19:14 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

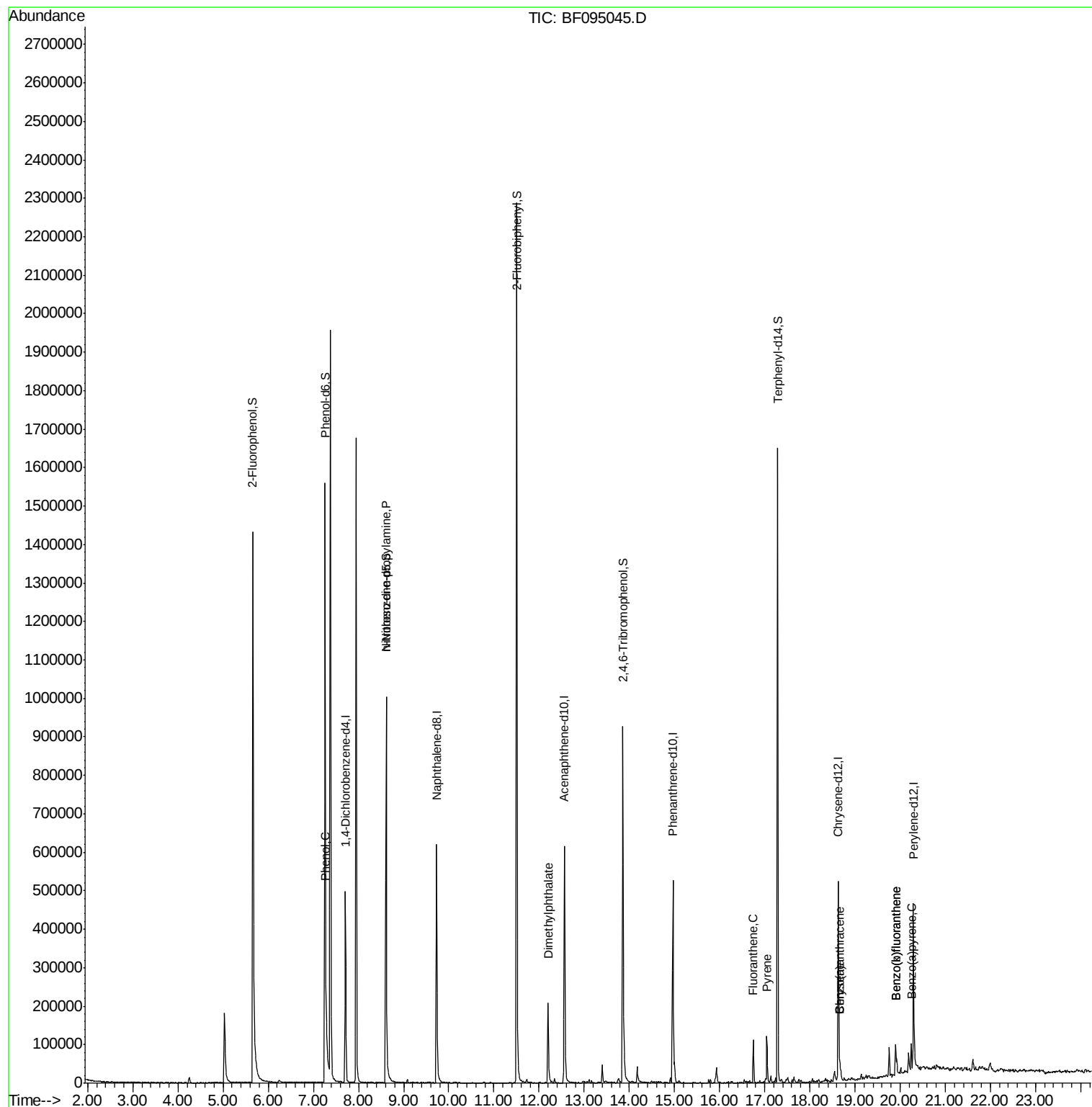
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.71  | 152  | 106381   | 20.00  | ng    | -0.02    |
| 21) Naphthalene-d8             | 9.73  | 136  | 436164   | 20.00  | ng    | -0.02    |
| 38) Acenaphthene-d10           | 12.56 | 164  | 198894   | 20.00  | ng    | -0.02    |
| 63) Phenanthrene-d10           | 14.97 | 188  | 306712   | 20.00  | ng    | -0.02    |
| 75) Chrysene-d12               | 18.63 | 240  | 209520   | 20.00  | ng    | -0.02    |
| 86) Perylene-d12               | 20.30 | 264  | 199093   | 20.00  | ng    | -0.01    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.66  | 112  | 749647   | 117.49 | ng    | -0.02    |
| 7) Phenol-d6                   | 7.26  | 99   | 910202   | 118.89 | ng    | -0.02    |
| 23) Nitrobenzene-d5            | 8.61  | 82   | 497115   | 71.87  | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol       | 13.86 | 330  | 173532   | 106.53 | ng    | -0.02    |
| 44) 2-Fluorobiphenyl           | 11.51 | 172  | 1038857  | 75.18  | ng    | -0.02    |
| 78) Terphenyl-d14              | 17.29 | 244  | 637720   | 67.04  | ng    | -0.02    |
| Target Compounds               |       |      |          |        |       |          |
| 10) Phenol                     | 7.28  | 94   | 19561    | 2.42   | ng    | # 73     |
| 19) n-Nitroso-di-n-propylamine | 8.61  | 70   | 63370    | 12.24  | ng    | # 73     |
| 49) Dimethylphthalate          | 12.20 | 163  | 148824   | 9.11   | ng    | 99       |
| 74) Fluoranthene               | 16.75 | 202  | 63318    | 3.50   | ng    | 98       |
| 77) Pyrene                     | 17.05 | 202  | 58675    | 3.74   | ng    | 96       |
| 80) Benzo(a)anthracene         | 18.67 | 228  | 31212    | 2.56   | ng    | 98       |
| 82) Chrysene                   | 18.67 | 228  | 31212    | 2.65   | ng    | 98       |
| 87) Benzo(b)fluoranthene       | 19.90 | 252  | 57666    | 4.69   | ng    | # 94     |
| 88) Benzo(k)fluoranthene       | 19.90 | 252  | 57666    | 4.86   | ng    | 98       |
| 89) Benzo(a)pyrene             | 20.25 | 252  | 30623    | 2.70   | ng    | 97       |

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

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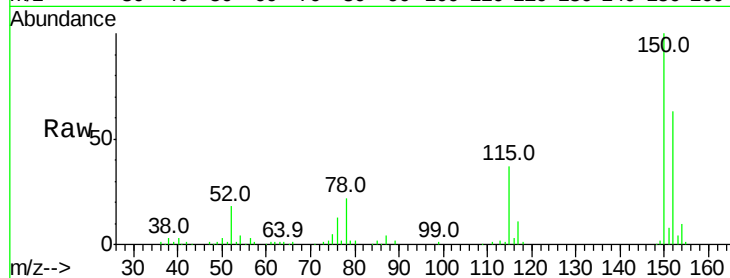


#1

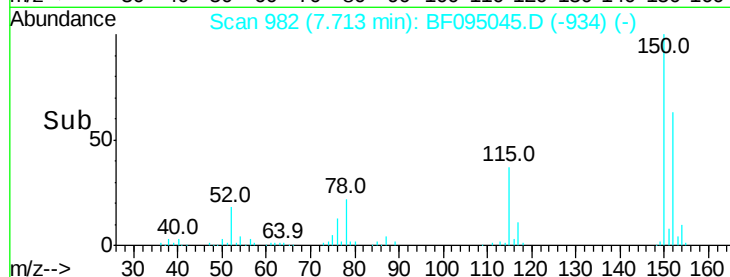
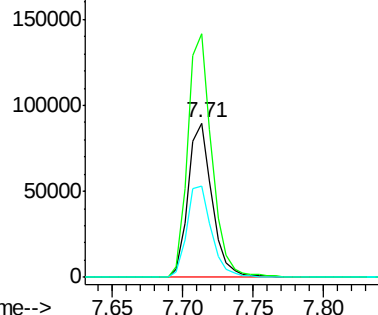
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 7.71 min Scan# 982  
Delta R.T. -0.02 min  
Lab File: BF095045.D  
Acq: 10 May 2017 3:36

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 106381  
Ion Ratio Lower Upper  
152 100  
150 157.5 126.2 189.2  
115 58.7 52.2 78.2



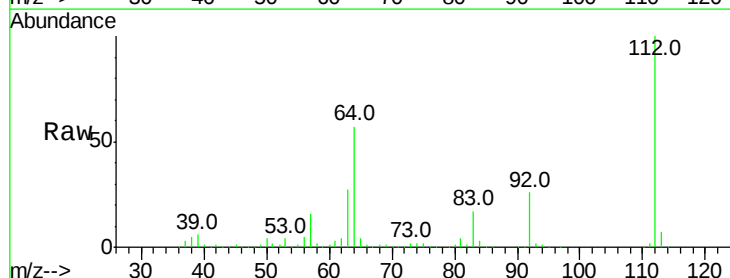
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



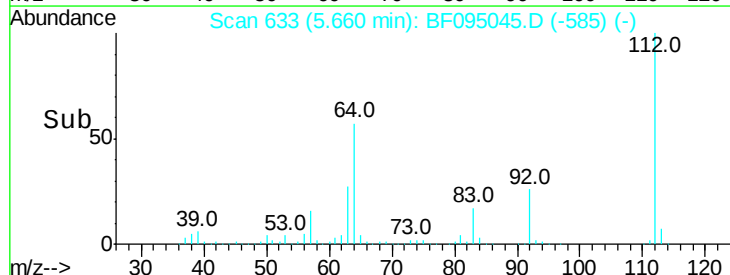
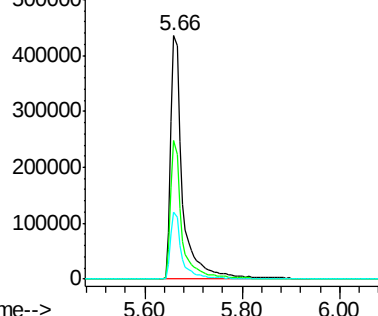
#5

2-Fluorophenol  
Concen: 117.49 ng  
RT: 5.66 min Scan# 633  
Delta R.T. -0.02 min  
Lab File: BF095045.D  
Acq: 10 May 2017 3:36

Tgt Ion:112 Resp: 749647  
Ion Ratio Lower Upper  
112 100  
64 57.0 46.0 69.0  
63 27.3 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: 118.89 ng

RT: 7.26 min Scan# 905

Delta R.T. -0.02 min

Lab File: BF095045.D

Acq: 10 May 2017 3:36

Instrument :

BNA\_F

ClientSampled :

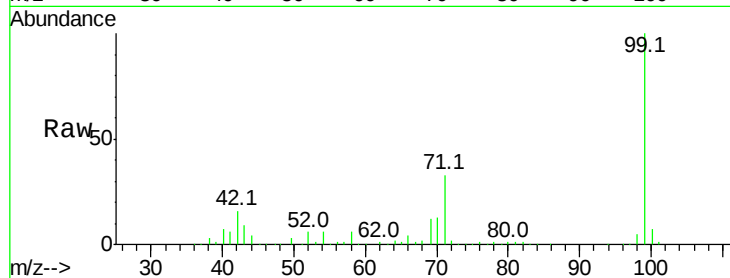
Tot Ion: 99 Resp: 910202

Ion Ratio Lower Upper

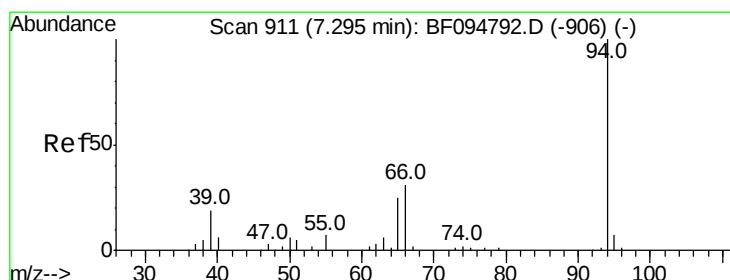
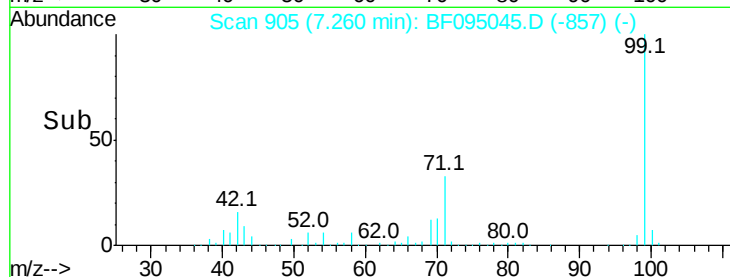
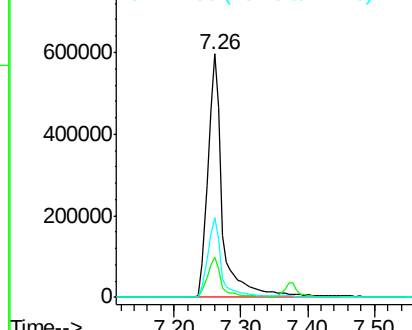
99 100

42 16.2 13.5 20.3

71 32.7 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: 2.42 ng

RT: 7.28 min Scan# 908

Delta R.T. -0.02 min

Lab File: BF095045.D

Acq: 10 May 2017 3:36

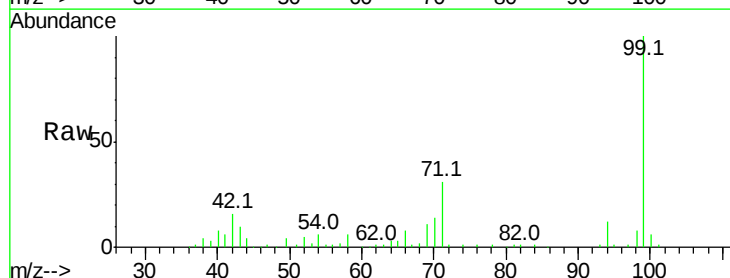
Tgt Ion: 94 Resp: 19561

Ion Ratio Lower Upper

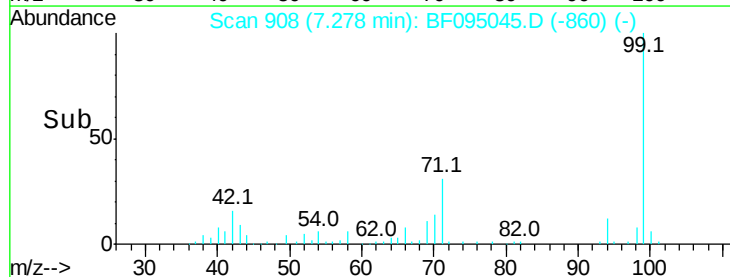
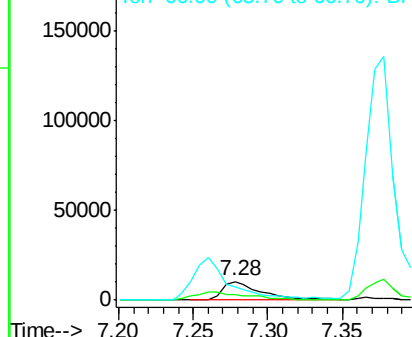
94 100

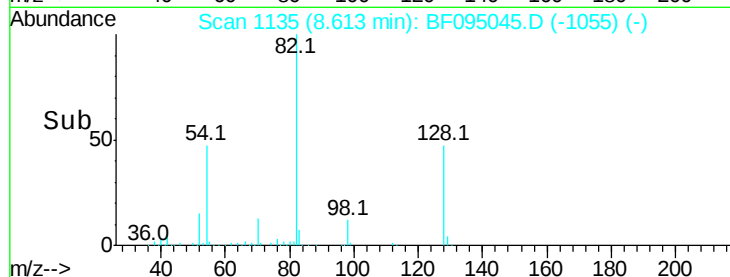
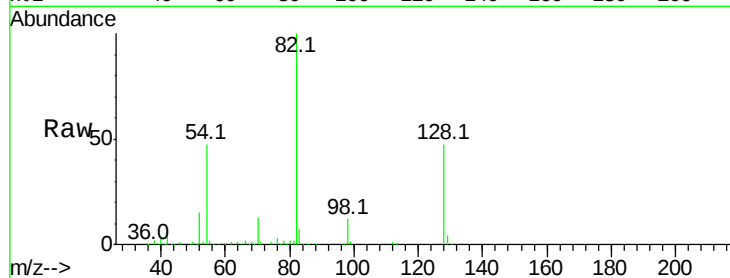
65 28.8 9.9 49.9

66 71.9 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: 12.24 ng

RT: 8.61 min Scan# 1135

Delta R.T. 0.17 min

Lab File: BF095045.D

Acq: 10 May 2017 3:36

Instrument :

BNA\_F

ClientSampleId :

Tot Ion: 70 Resp: 63370

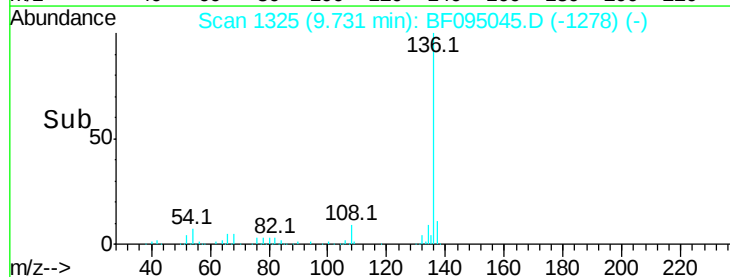
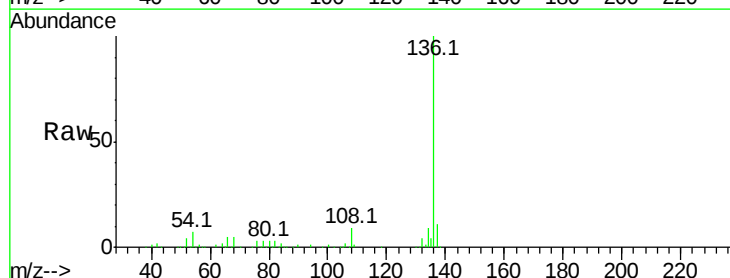
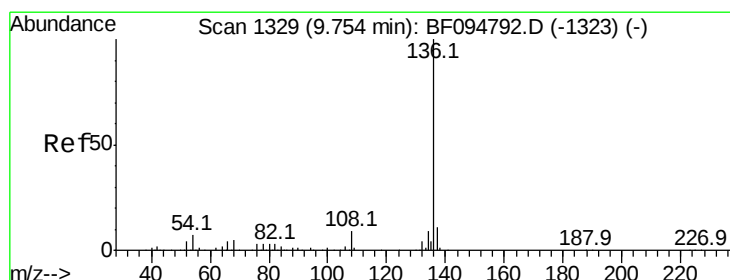
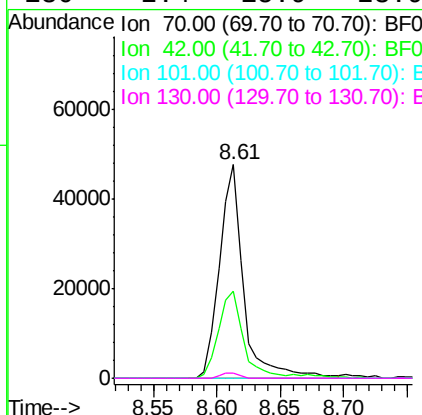
Ion Ratio Lower Upper

70 100

42 40.8 47.2 70.8#

101 0.0 7.2 10.8#

130 2.4 15.9 23.9#



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 9.73 min Scan# 1325

Delta R.T. -0.02 min

Lab File: BF095045.D

Acq: 10 May 2017 3:36

Tgt Ion: 136 Resp: 436164

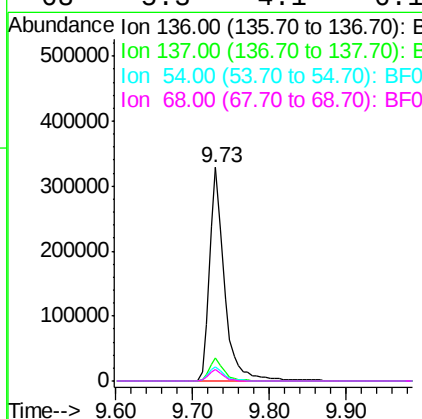
Ion Ratio Lower Upper

136 100

137 10.7 8.5 12.7

54 6.6 4.9 7.3

68 5.3 4.1 6.1

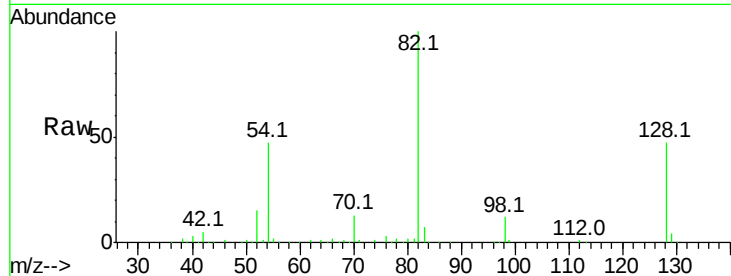




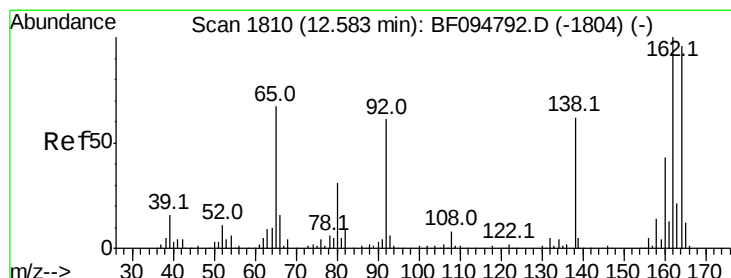
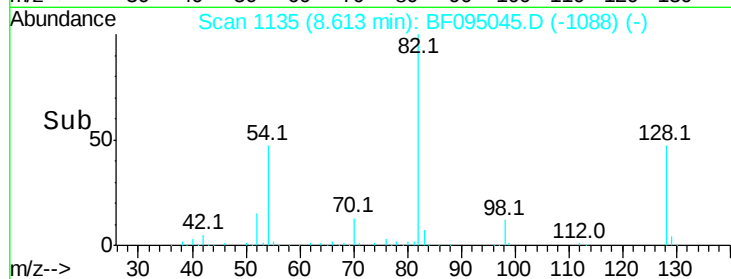
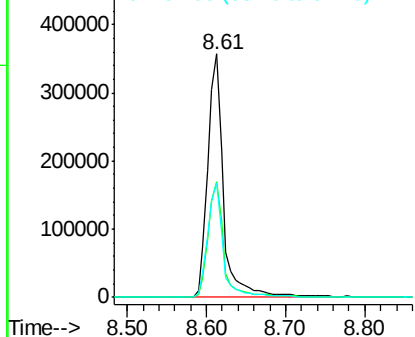
#23  
Nitrobenzene-d5  
Concen: 71.87 ng  
RT: 8.61 min Scan# 1135  
Delta R.T. -0.02 min  
Lab File: BF095045.D  
Acq: 10 May 2017 3:36

Instrument :  
BNA\_F  
ClientSampled :

Tot Ion: 82 Resp: 497115  
Ion Ratio Lower Upper  
82 100  
128 47.3 34.0 51.0  
54 46.8 42.2 63.2

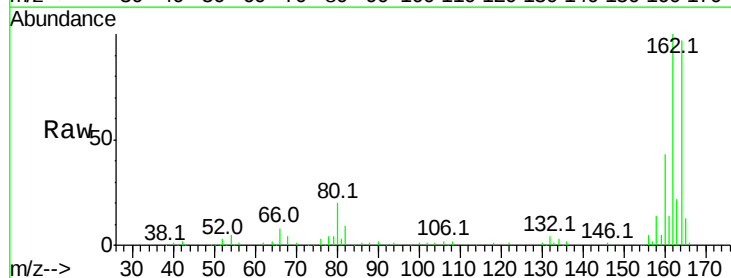


Abundance Ion 82.00 (81.70 to 82.70): BF0  
Ion 128.00 (127.70 to 128.70): E  
Ion 54.00 (53.70 to 54.70): BF0

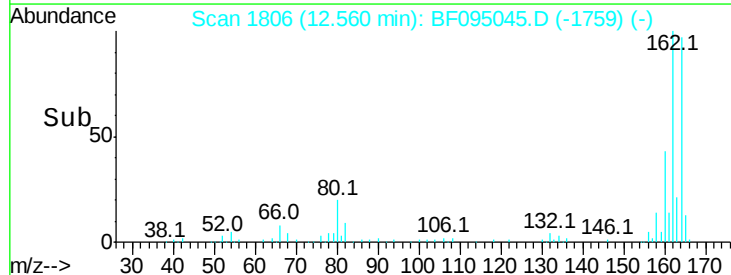
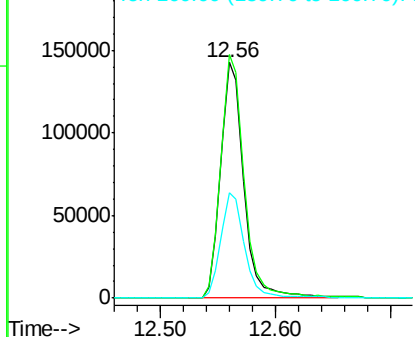


#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 12.56 min Scan# 1806  
Delta R.T. -0.02 min  
Lab File: BF095045.D  
Acq: 10 May 2017 3:36

Tgt Ion:164 Resp: 198894  
Ion Ratio Lower Upper  
164 100  
162 103.5 82.6 123.8  
160 45.0 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

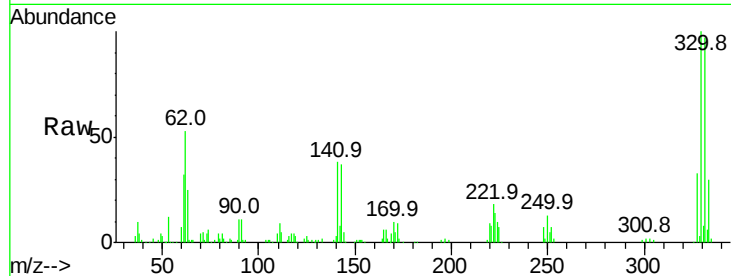




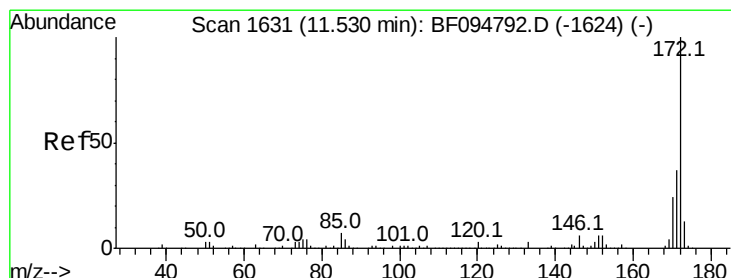
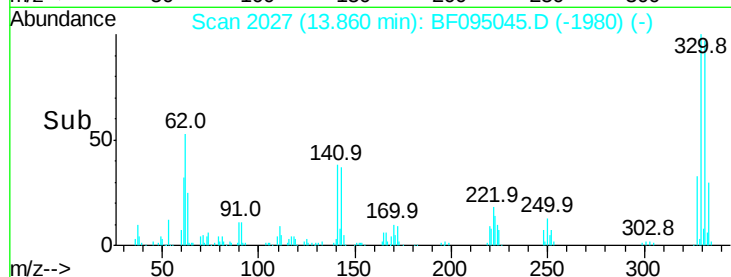
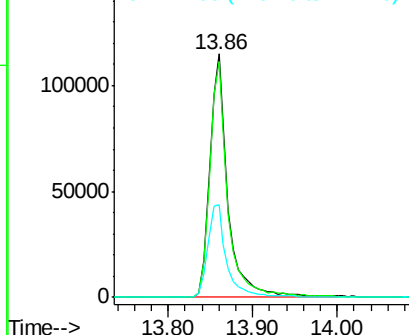
#41  
 2,4,6-Tribromophenol  
 Concen: 106.53 ng  
 RT: 13.86 min Scan# 2027  
 Delta R.T. -0.02 min  
 Lab File: BF095045.D  
 Acq: 10 May 2017 3:36

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:330 Resp: 173532  
 Ion Ratio Lower Upper  
 330 100  
 332 96.8 76.6 115.0  
 141 39.1 31.4 47.2

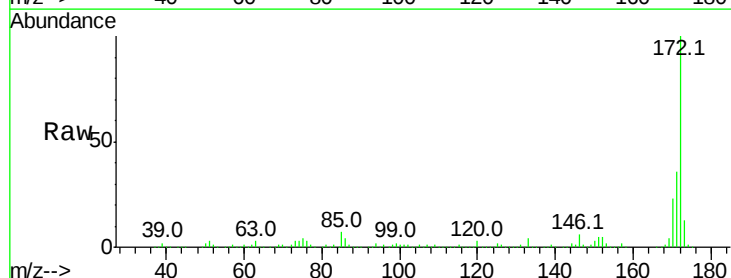


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

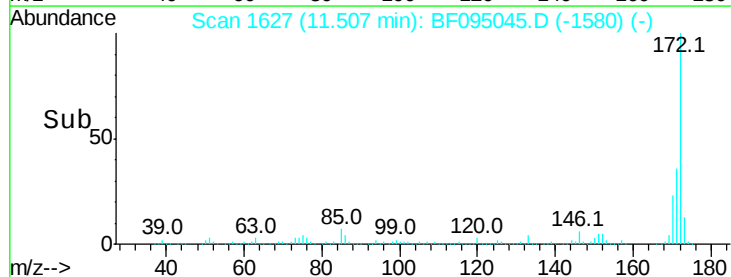
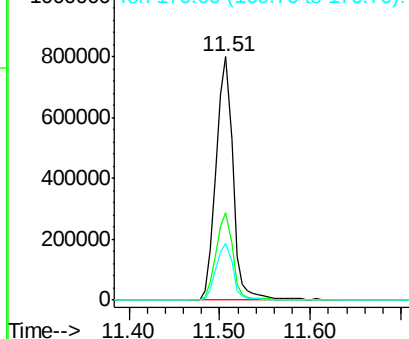


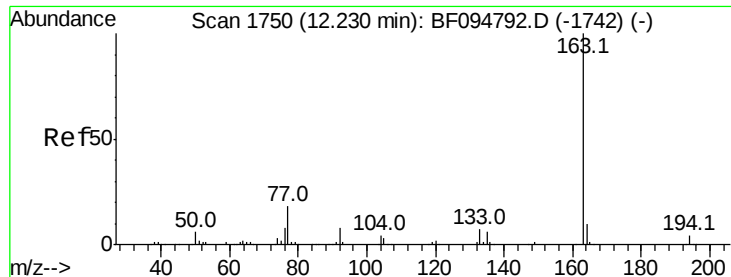
#44  
 2-Fluorobiphenyl  
 Concen: 75.18 ng  
 RT: 11.51 min Scan# 1627  
 Delta R.T. -0.02 min  
 Lab File: BF095045.D  
 Acq: 10 May 2017 3:36

Tgt Ion:172 Resp: 1038857  
 Ion Ratio Lower Upper  
 172 100  
 171 36.2 29.6 44.4  
 170 23.1 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: 9.11 ng

RT: 12.20 min Scan# 1745

Delta R.T. -0.03 min

Lab File: BF095045.D

Acq: 10 May 2017 3:36

Instrument :

BNA\_F

ClientSampled :

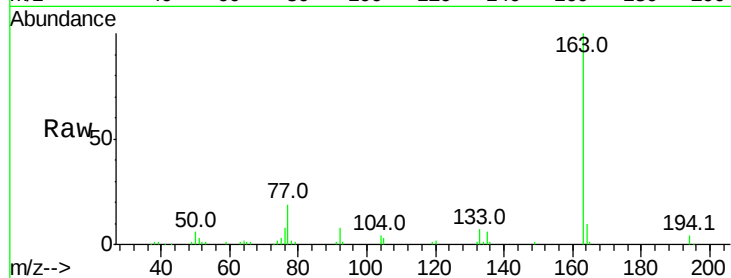
Tot Ion:163 Resp: 148824

Ion Ratio Lower Upper

163 100

194 3.5 2.6 4.0

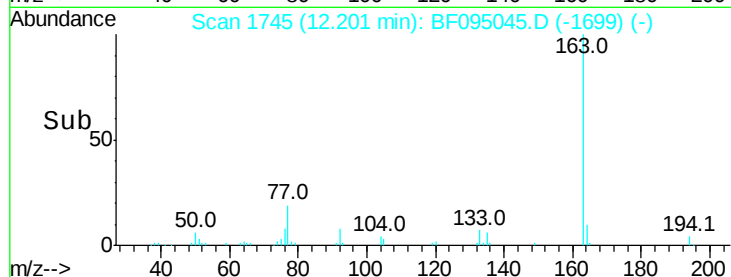
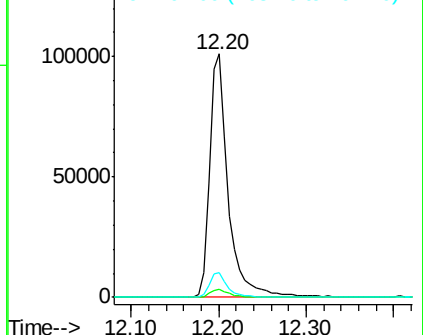
164 10.1 8.4 12.6



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



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 14.97 min Scan# 2215

Delta R.T. -0.02 min

Lab File: BF095045.D

Acq: 10 May 2017 3:36

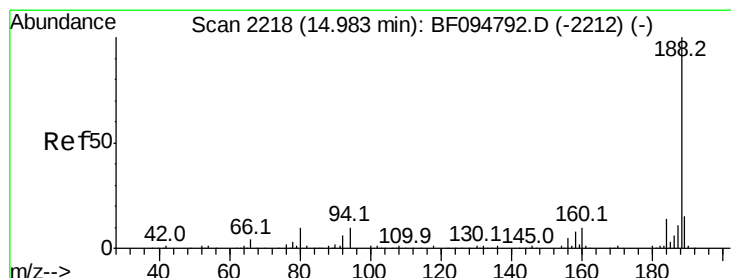
Tgt Ion:188 Resp: 306712

Ion Ratio Lower Upper

188 100

94 10.1 9.4 14.2

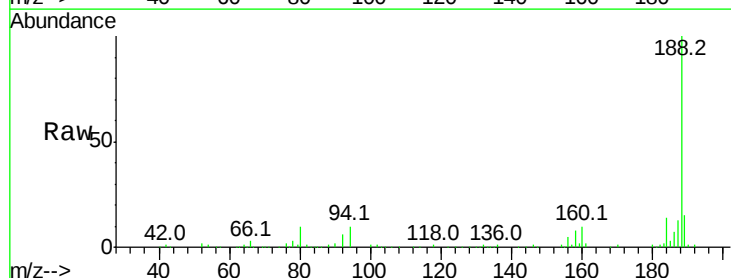
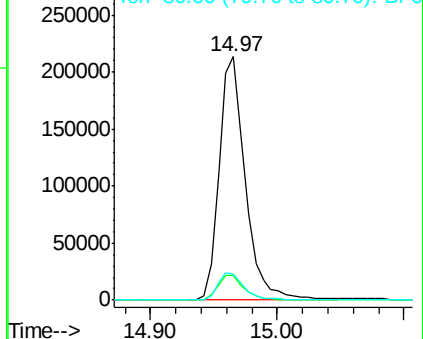
80 10.5 10.2 15.2

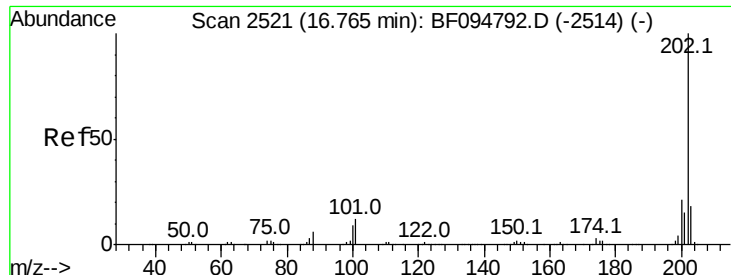


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

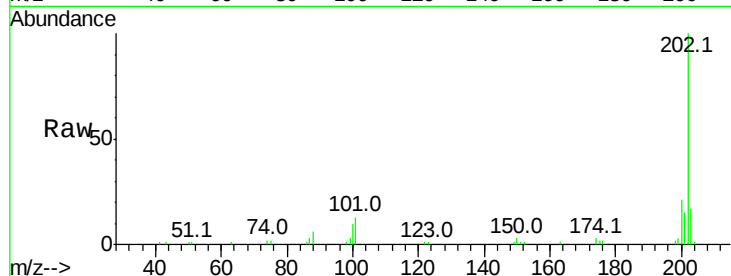




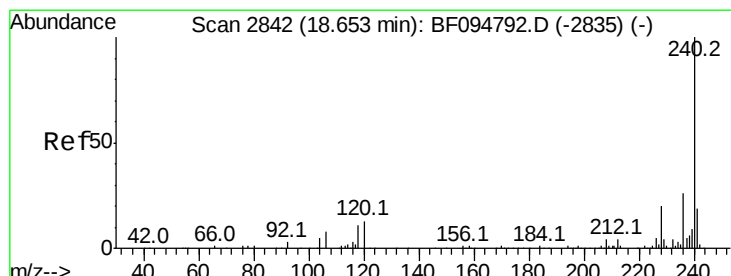
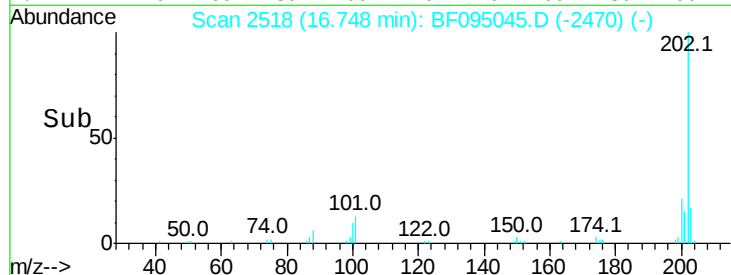
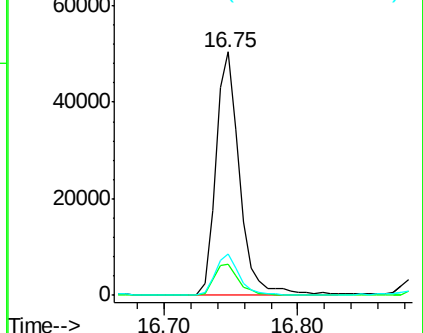
#74  
 Fluoranthene  
 Concen: 3.50 ng  
 RT: 16.75 min Scan# 2518  
 Delta R.T. -0.02 min  
 Lab File: BF095045.D  
 Acq: 10 May 2017 3:36

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:202 Resp: 63318  
 Ion Ratio Lower Upper  
 202 100  
 101 12.9 0.0 33.2  
 203 17.1 0.0 38.1

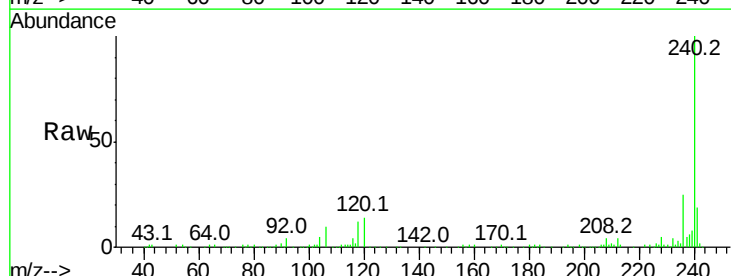


Abundance Ion 202.00 (201.70 to 202.70): E  
 Ion 101.00 (100.70 to 101.70): E  
 Ion 203.00 (202.70 to 203.70): E

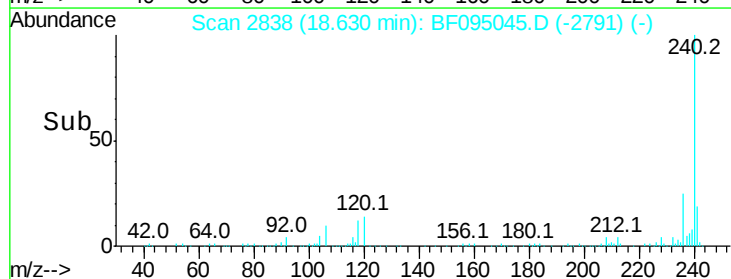
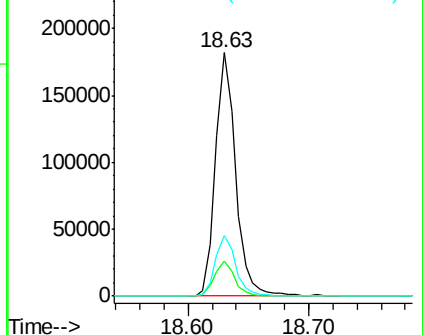


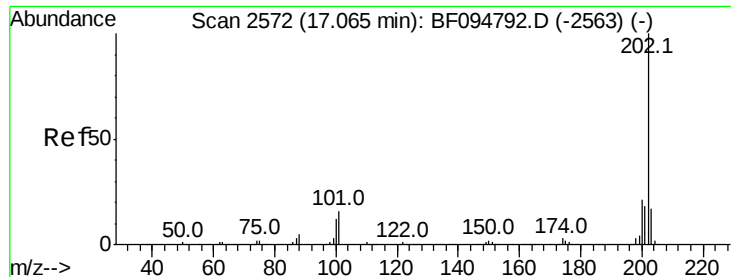
#75  
 Chrysene-d12  
 Concen: 20.00 ng  
 RT: 18.63 min Scan# 2838  
 Delta R.T. -0.02 min  
 Lab File: BF095045.D  
 Acq: 10 May 2017 3:36

Tgt Ion:240 Resp: 209520  
 Ion Ratio Lower Upper  
 240 100  
 120 14.3 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





#77

Pvrene

Concen: 3.74 ng

RT: 17.05 min Scan# 2569

Delta R.T. -0.02 min

Lab File: BF095045.D

Acq: 10 May 2017 3:36

Instrument :

BNA\_F

ClientSampleId :

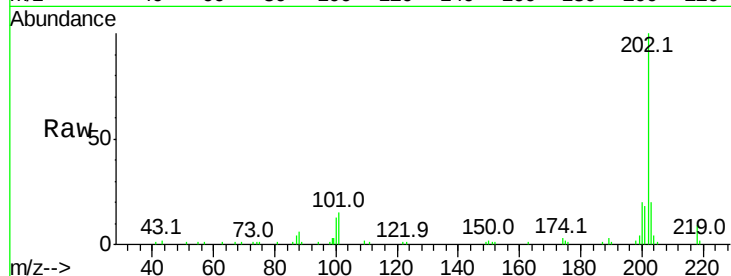
Tot Ion:202 Resp: 58675

Ion Ratio Lower Upper

202 100

200 19.9 17.6 26.4

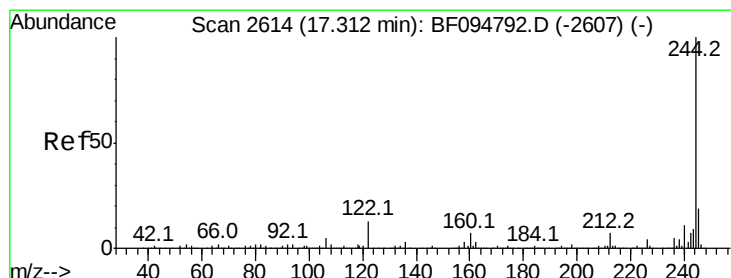
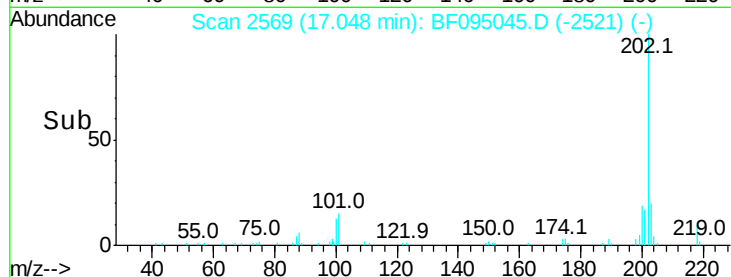
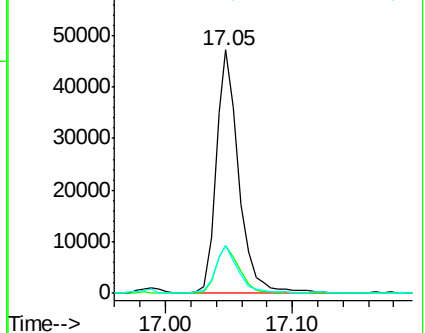
203 19.8 14.4 21.6



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: 67.04 ng

RT: 17.29 min Scan# 2610

Delta R.T. -0.02 min

Lab File: BF095045.D

Acq: 10 May 2017 3:36

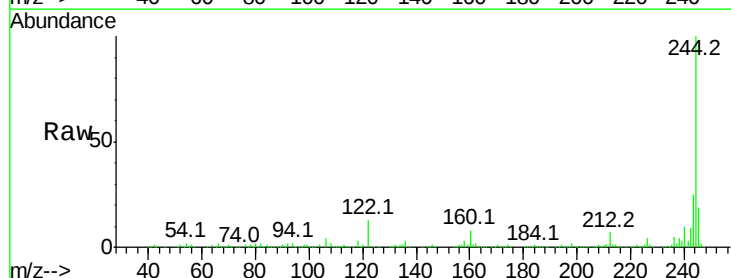
Tgt Ion:244 Resp: 637720

Ion Ratio Lower Upper

244 100

212 7.2 6.0 9.0

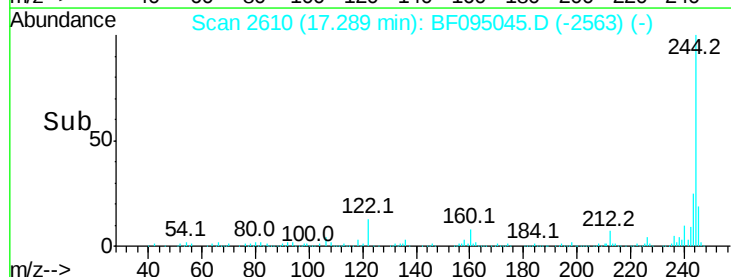
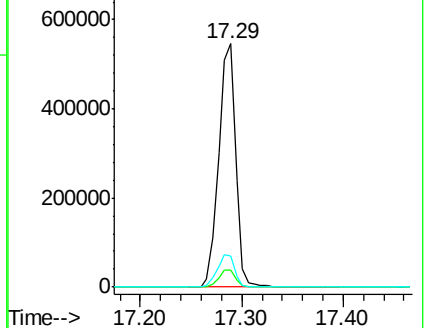
122 13.0 10.3 15.5

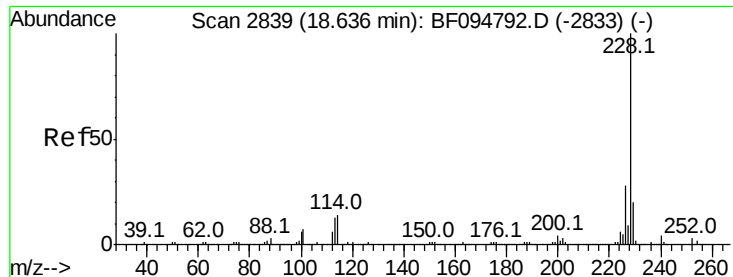


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 2.56 ng

RT: 18.67 min Scan# 2844

Delta R.T. 0.03 min

Lab File: BF095045.D

Acq: 10 May 2017 3:36

Instrument :

BNA\_F

ClientSampleId :

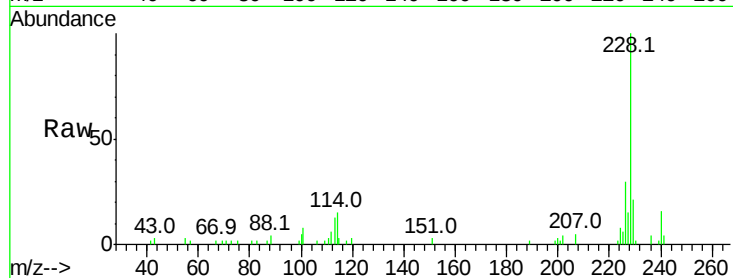
Tot Ion:228 Resp: 31212

Ion Ratio Lower Upper

228 100

226 29.9 22.6 33.8

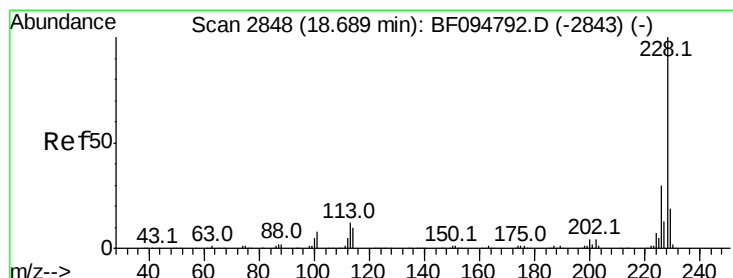
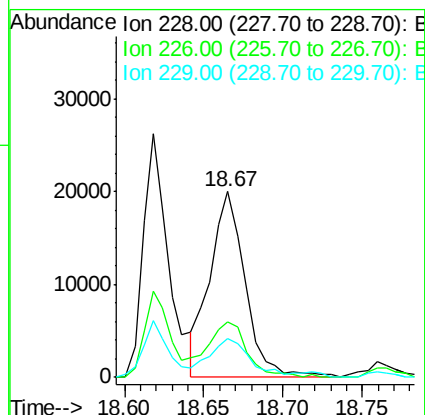
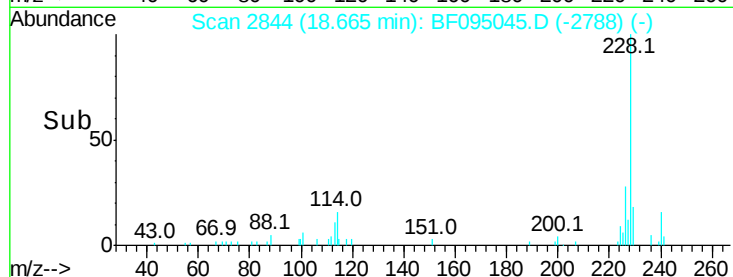
229 20.7 16.3 24.5



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: 2.65 ng

RT: 18.67 min Scan# 2844

Delta R.T. -0.02 min

Lab File: BF095045.D

Acq: 10 May 2017 3:36

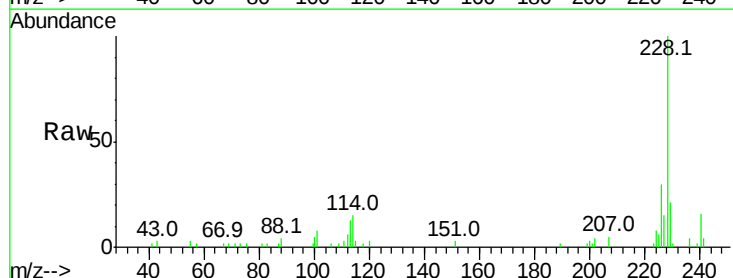
Tgt Ion:228 Resp: 31212

Ion Ratio Lower Upper

228 100

226 29.9 24.9 37.3

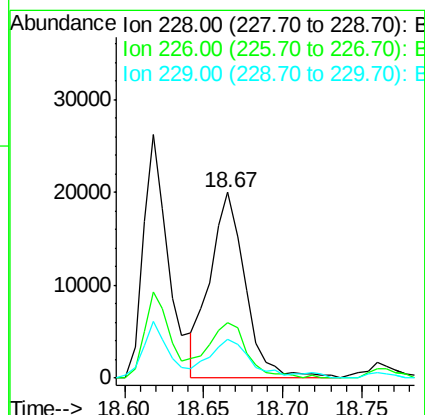
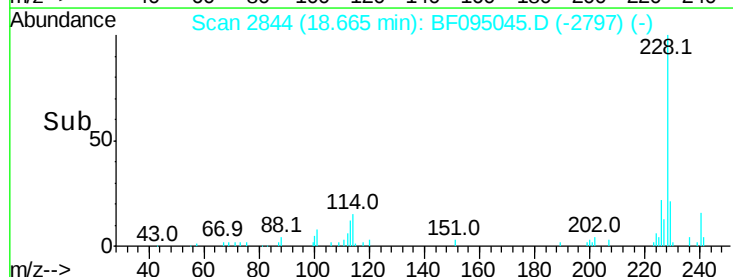
229 20.7 15.8 23.6

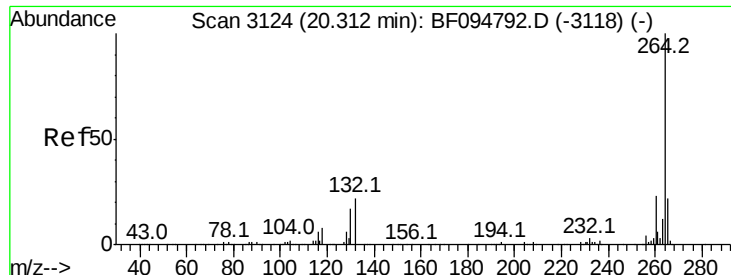


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

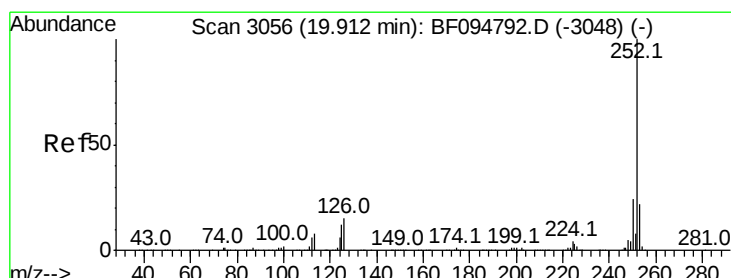
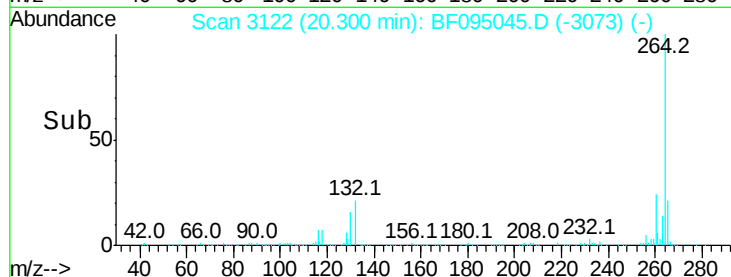
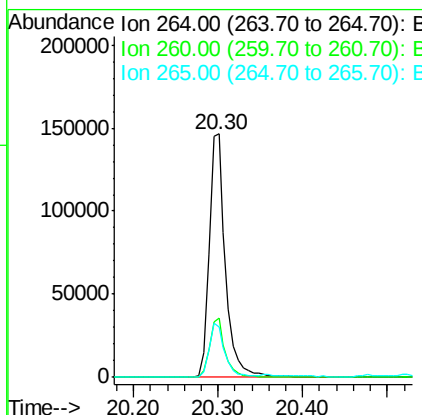
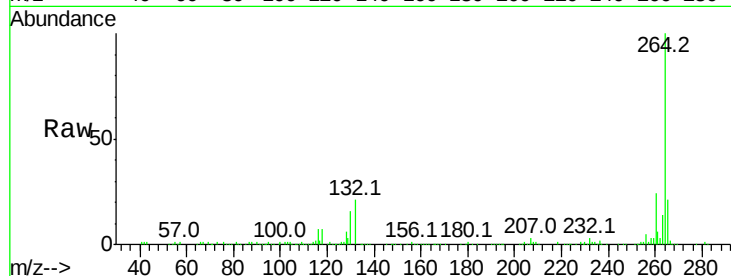




#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 20.30 min Scan# 3122  
Delta R.T. -0.01 min  
Lab File: BF095045.D  
Acq: 10 May 2017 3:36

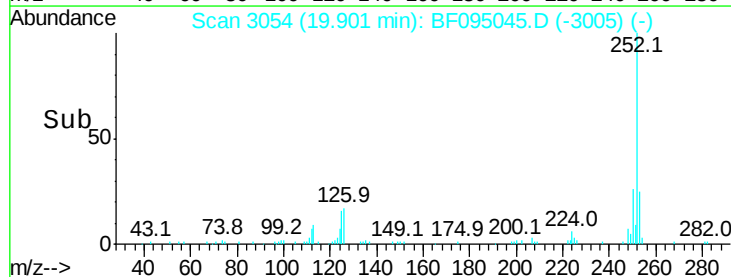
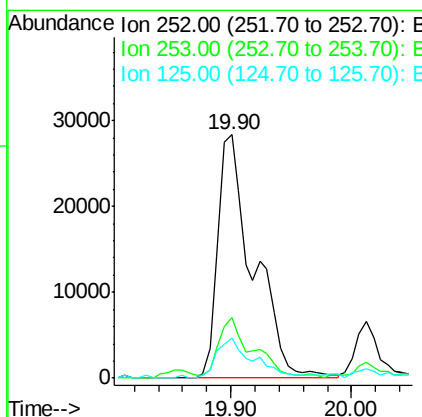
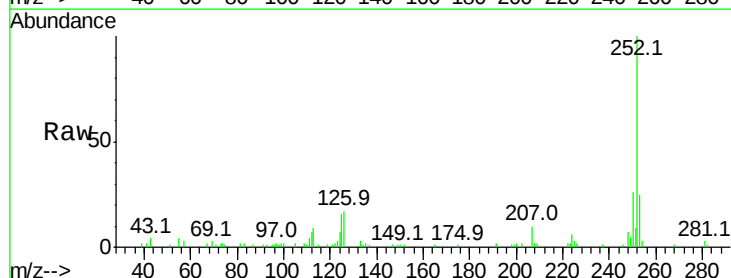
Instrument :  
BNA\_F  
ClientSampleId :

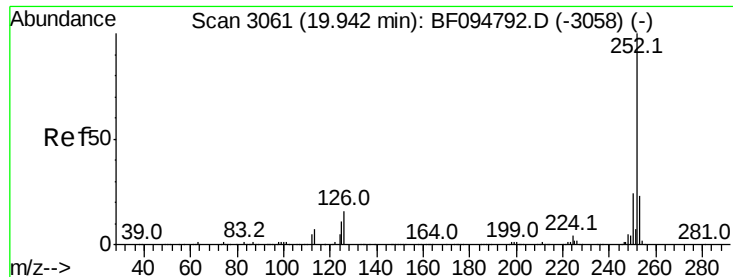
Tot Ion:264 Resp: 199093  
Ion Ratio Lower Upper  
264 100  
260 24.2 19.5 29.3  
265 20.6 17.2 25.8



#87  
Benzo(b)fluoranthene  
Concen: 4.69 ng  
RT: 19.90 min Scan# 3054  
Delta R.T. -0.01 min  
Lab File: BF095045.D  
Acq: 10 May 2017 3:36

Tgt Ion:252 Resp: 57666  
Ion Ratio Lower Upper  
252 100  
253 24.6 18.1 27.1  
125 16.3 9.8 14.8#

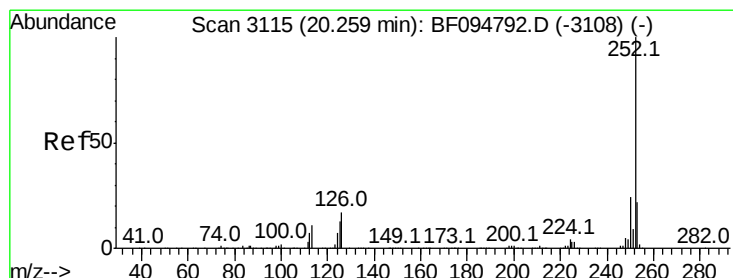
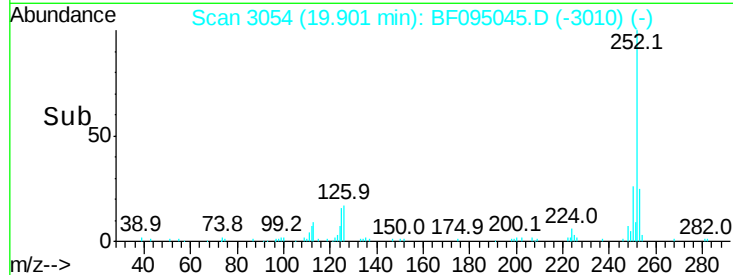
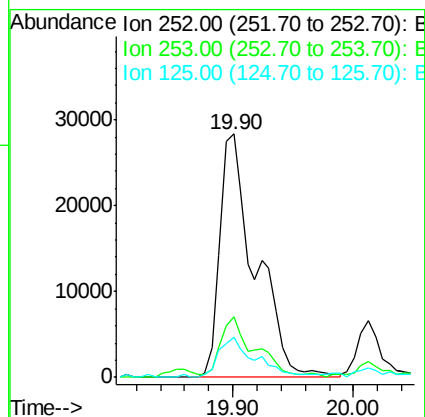
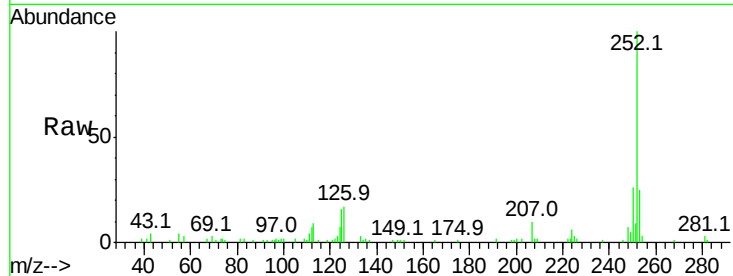




#88  
Benzo(k)fluoranthene  
Concen: 4.86 ng  
RT: 19.90 min Scan# 3054  
Delta R.T. -0.04 min  
Lab File: BF095045.D  
Acq: 10 May 2017 3:36

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.6  | 18.4  | 27.6  |
| 125     | 16.3  | 13.1  | 19.7  |



#89  
Benzo(a)pyrene  
Concen: 2.70 ng  
RT: 20.25 min Scan# 3113  
Delta R.T. -0.01 min  
Lab File: BF095045.D  
Acq: 10 May 2017 3:36

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.0  | 17.5  | 26.3  |
| 125     | 12.6  | 11.0  | 16.4  |

