

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051817\  
 Data File : BF095252.D  
 Acq On : 19 May 2017 7:48  
 Operator : SJ/MA  
 Sample : I3172-02DL 5X  
 Misc :  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: May 19 08:23:00 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu May 18 17:07:53 2017  
 Response via : Initial Calibration

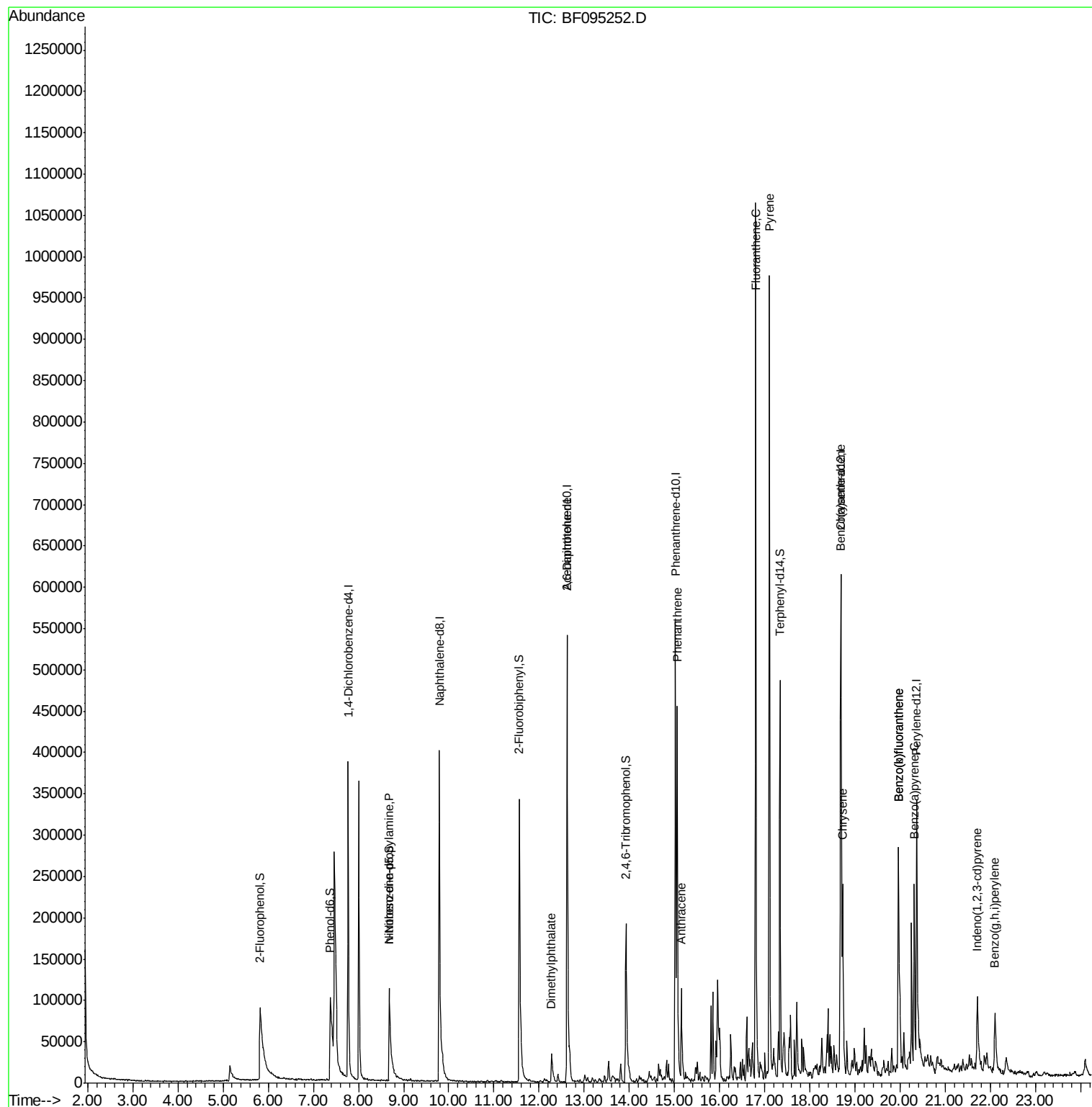
| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min)    |
|--------------------------------|-------|------|----------|-------|-------|-------------|
| 1) 1,4-Dichlorobenzene-d4      | 7.77  | 152  | 100974   | 20.00 | ng    | 0.00        |
| 21) Naphthalene-d8             | 9.79  | 136  | 423408   | 20.00 | ng    | 0.00        |
| 38) Acenaphthene-d10           | 12.62 | 164  | 203150   | 20.00 | ng    | 0.00        |
| 63) Phenanthrene-d10           | 15.02 | 188  | 325064   | 20.00 | ng    | 0.00        |
| 75) Chrysene-d12               | 18.69 | 240  | 202953   | 20.00 | ng    | 0.00        |
| 86) Perylene-d12               | 20.36 | 264  | 173530   | 20.00 | ng    | 0.00        |
| System Monitoring Compounds    |       |      |          |       |       |             |
| 5) 2-Fluorophenol              | 5.81  | 112  | 153480   | 25.34 | ng    | 0.08        |
| 7) Phenol-d6                   | 7.37  | 99   | 193293   | 26.60 | ng    | 0.06        |
| 23) Nitrobenzene-d5            | 8.68  | 82   | 121851   | 18.15 | ng    | 0.01        |
| 41) 2,4,6-Tribromophenol       | 13.92 | 330  | 48920    | 29.40 | ng    | 0.00        |
| 44) 2-Fluorobiphenyl           | 11.56 | 172  | 273736   | 19.39 | ng    | 0.00        |
| 78) Terphenyl-d14              | 17.34 | 244  | 185582   | 20.14 | ng    | -0.01       |
| Target Compounds               |       |      |          |       |       |             |
| 19) n-Nitroso-di-n-propylamine | 8.68  | 70   | 11780    | 2.40  | ng    | Qvalue # 69 |
| 49) Dimethylphthalate          | 12.28 | 163  | 41954    | 2.52  | ng    | # 98        |
| 50) 2,6-Dinitrotoluene         | 12.62 | 165  | 21049    | 6.19  | ng    | # 31        |
| 70) Phenanthrene               | 15.06 | 178  | 286106   | 15.32 | ng    | 99          |
| 71) Anthracene                 | 15.15 | 178  | 87741    | 4.60  | ng    | 95          |
| 74) Fluoranthene               | 16.80 | 202  | 581547   | 30.35 | ng    | 99          |
| 77) Pyrene                     | 17.10 | 202  | 481154   | 31.70 | ng    | 96          |
| 80) Benzo(a)anthracene         | 18.68 | 228  | 173400   | 14.68 | ng    | 97          |
| 82) Chrysene                   | 18.72 | 228  | 130521   | 11.43 | ng    | 99          |
| 85) Indeno(1,2,3-cd)pyrene     | 21.71 | 276  | 64849    | 6.99  | ng    | 97          |
| 87) Benzo(b)fluoranthene       | 19.96 | 252  | 212629   | 19.83 | ng    | # 97        |
| 88) Benzo(k)fluoranthene       | 19.96 | 252  | 212629   | 20.56 | ng    | 99          |
| 89) Benzo(a)pyrene             | 20.31 | 252  | 107225   | 10.84 | ng    | 98          |
| 91) Benzo(a,h,i)perylene       | 22.10 | 276  | 66011    | 8.23  | ng    | 96          |

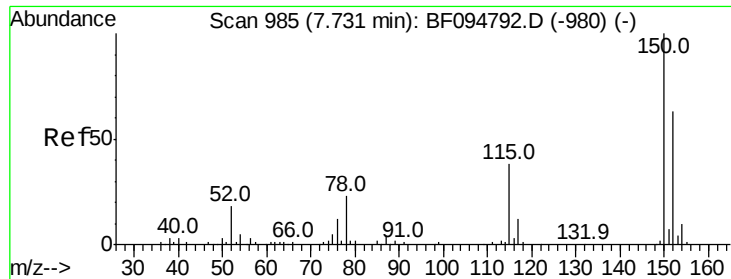
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 7.77 min Scan# 992

Delta R.T. 0.01 min

Lab File: BF095252.D

Acq: 19 May 2017 7:48

Instrument :

BNA\_F

ClientSampled :

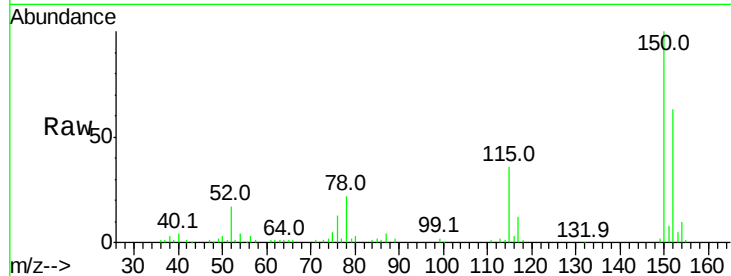
Tot Ion:152 Resp: 100974

Ion Ratio Lower Upper

152 100

150 159.3 126.2 189.2

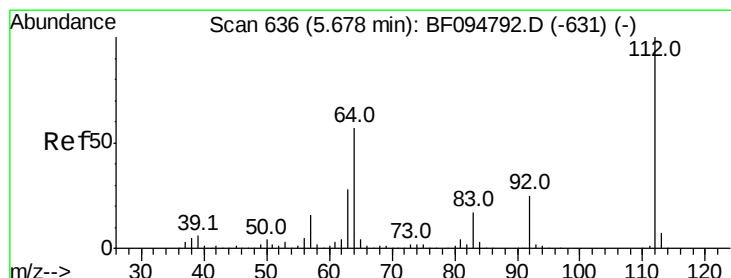
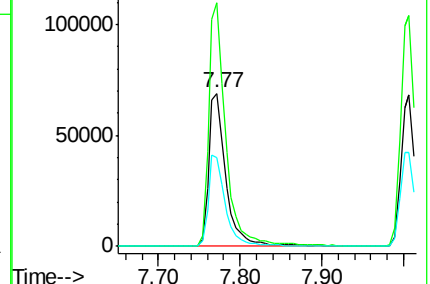
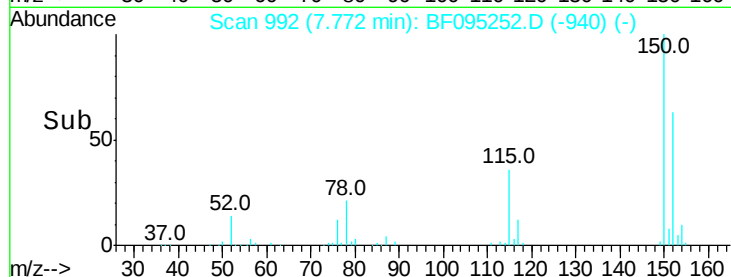
115 57.8 52.2 78.2



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: 25.34 ng

RT: 5.81 min Scan# 659

Delta R.T. 0.08 min

Lab File: BF095252.D

Acq: 19 May 2017 7:48

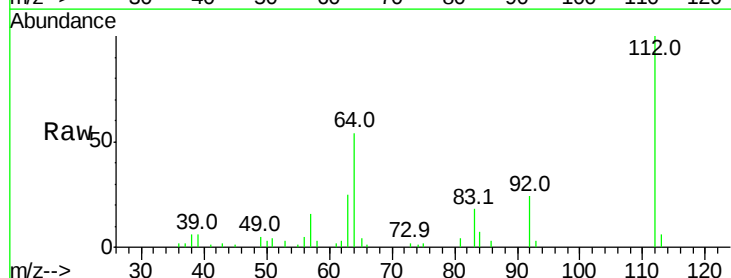
Tgt Ion:112 Resp: 153480

Ion Ratio Lower Upper

112 100

64 54.2 46.0 69.0

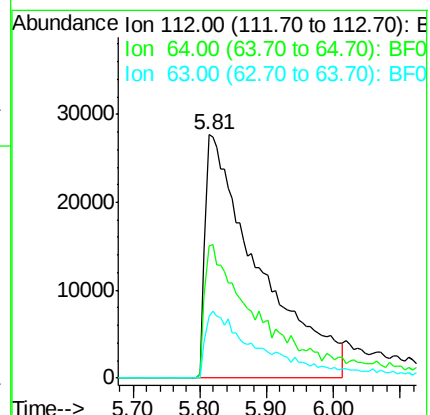
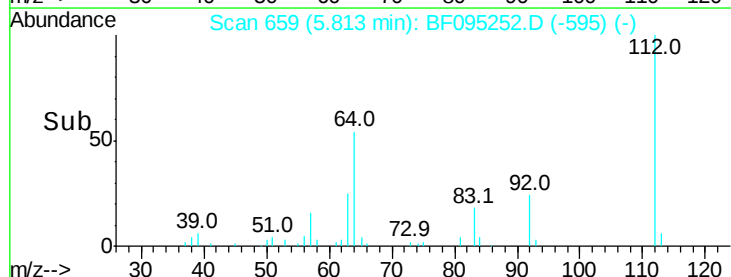
63 25.2 23.4 35.0



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: 26.60 ng

RT: 7.37 min Scan# 924

Delta R.T. 0.06 min

Lab File: BF095252.D

Acq: 19 May 2017 7:48

Instrument :  
BNA\_F  
ClientSampled :

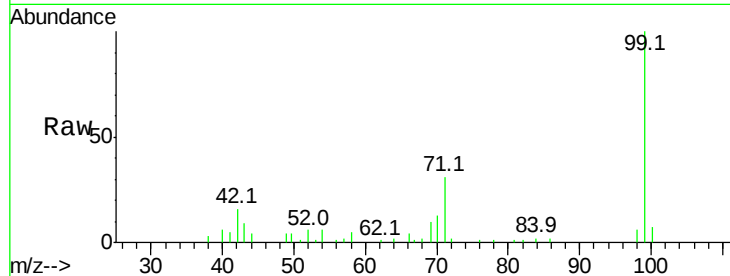
Tot Ion: 99 Resp: 193293

Ion Ratio Lower Upper

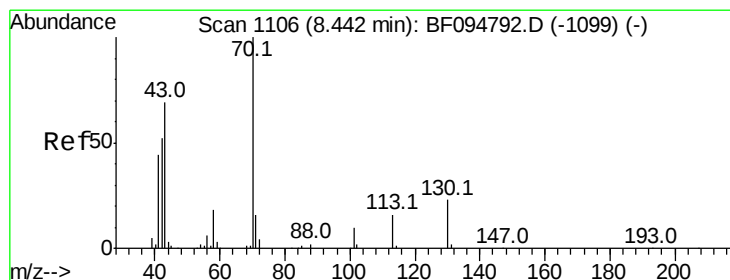
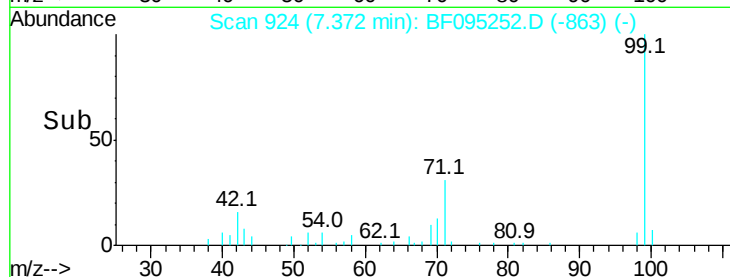
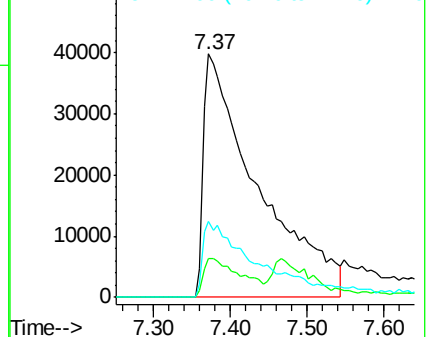
99 100

42 15.8 13.5 20.3

71 31.3 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



#19

n-Nitroso-di-n-propylamine

Concen: 2.40 ng

RT: 8.68 min Scan# 1147

Delta R.T. 0.21 min

Lab File: BF095252.D

Acq: 19 May 2017 7:48

Tgt Ion: 70 Resp: 11780

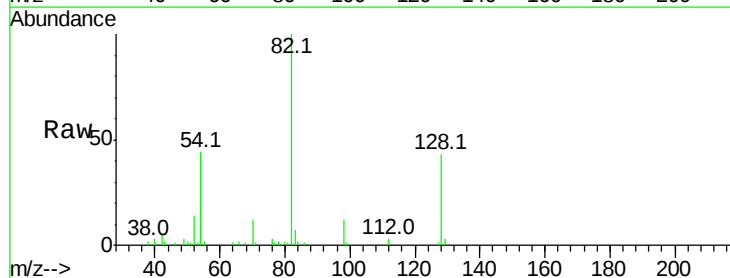
Ion Ratio Lower Upper

70 100

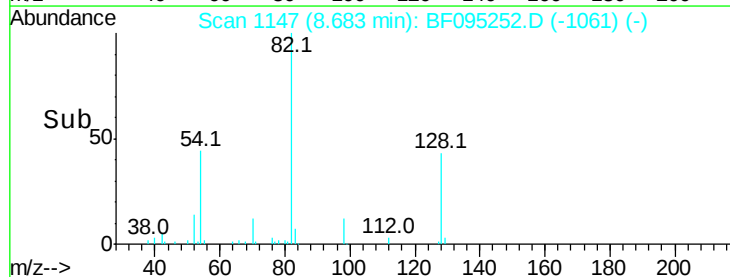
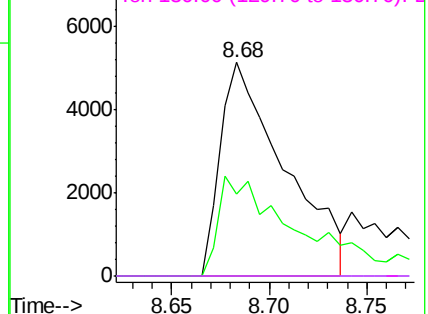
42 38.2 47.2 70.8#

101 0.0 7.2 10.8#

130 0.0 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): BF0  
Ion 130.00 (129.70 to 130.70): BF0





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 9.79 min Scan# 1335

Delta R.T. 0.01 min

Lab File: BF095252.D

Acq: 19 May 2017 7:48

Instrument :

BNA\_F

ClientSampleId :

Tot Ion:136 Resp: 423408

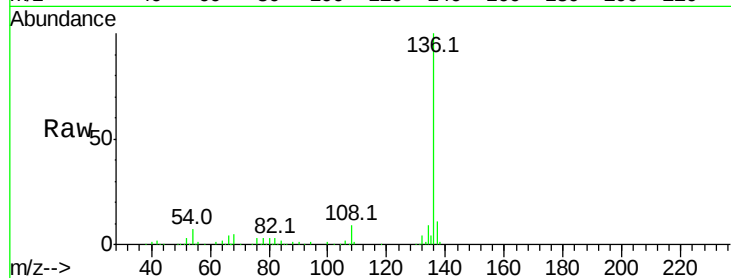
Ion Ratio Lower Upper

136 100

137 10.7 8.5 12.7

54 6.7 4.9 7.3

68 5.3 4.1 6.1

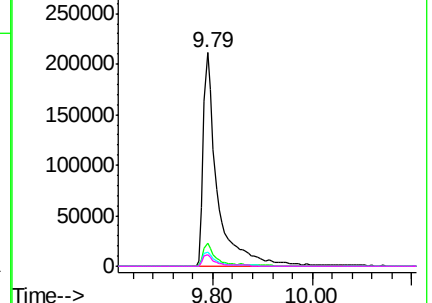
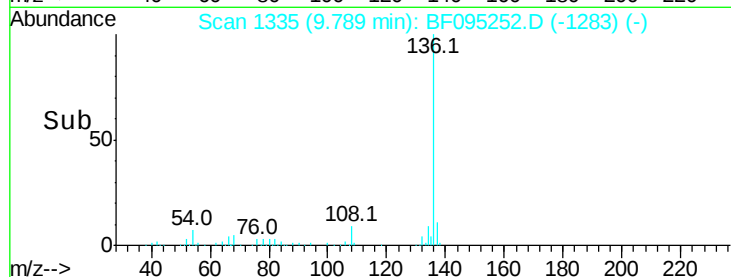


Abundance Ion 136.00 (135.70 to 136.70): E

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: 18.15 ng

RT: 8.68 min Scan# 1147

Delta R.T. 0.01 min

Lab File: BF095252.D

Acq: 19 May 2017 7:48

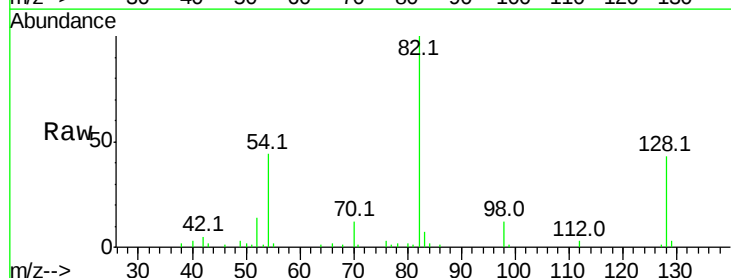
Tgt Ion: 82 Resp: 121851

Ion Ratio Lower Upper

82 100

128 43.1 34.0 51.0

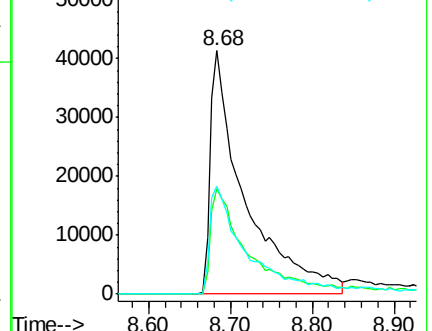
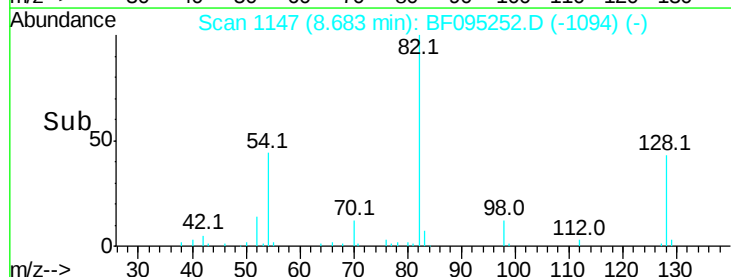
54 44.3 42.2 63.2



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: 12.62 min Scan# 1816

Delta R.T. -0.00 min

Lab File: BF095252.D

Acq: 19 May 2017 7:48

Instrument :

BNA\_F

ClientSampleId :

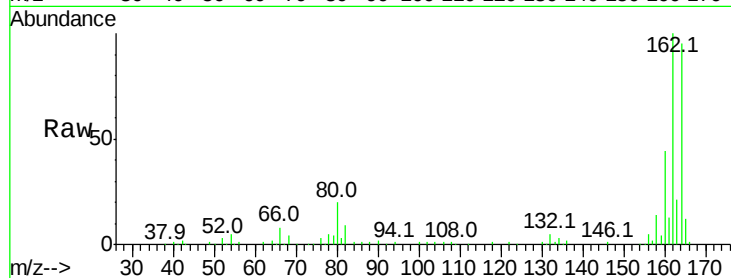
Tot Ion:164 Resp: 203150

Ion Ratio Lower Upper

164 100

162 105.0 82.6 123.8

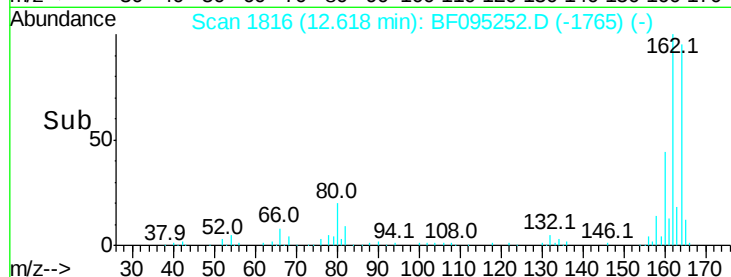
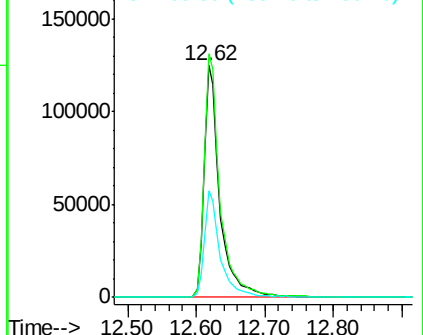
160 46.2 36.2 54.2



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: 29.40 ng

RT: 13.92 min Scan# 2038

Delta R.T. 0.01 min

Lab File: BF095252.D

Acq: 19 May 2017 7:48

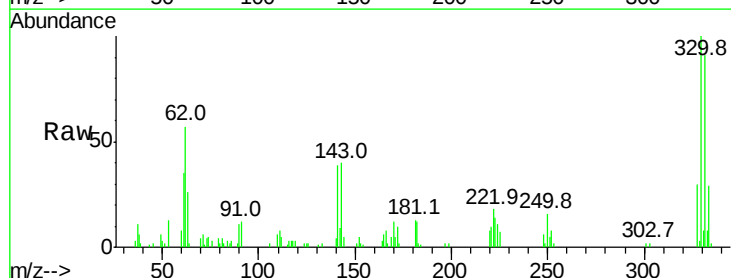
Tgt Ion:330 Resp: 48920

Ion Ratio Lower Upper

330 100

332 93.5 76.6 115.0

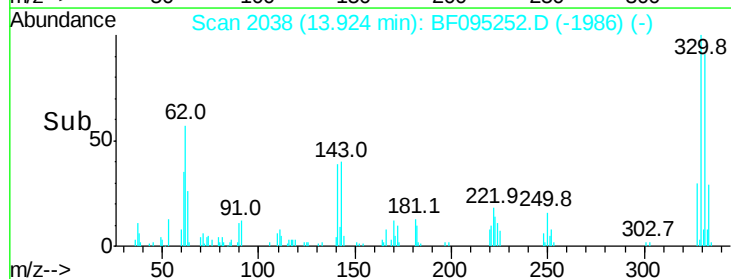
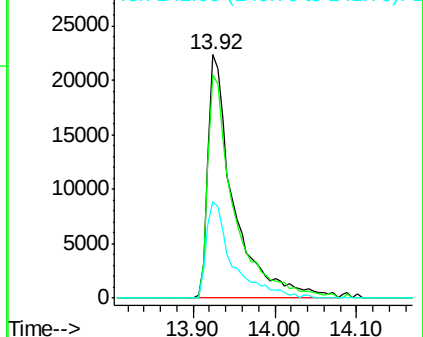
141 39.6 31.4 47.2

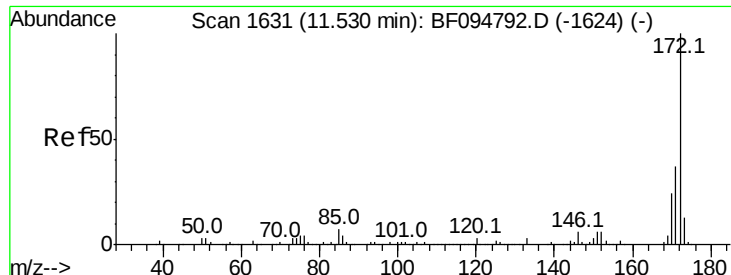


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

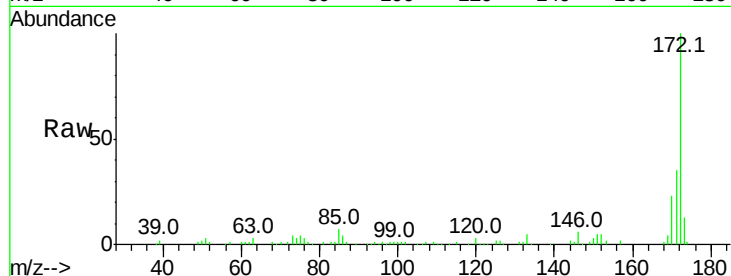




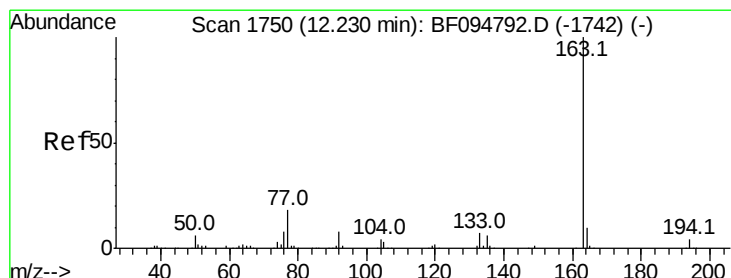
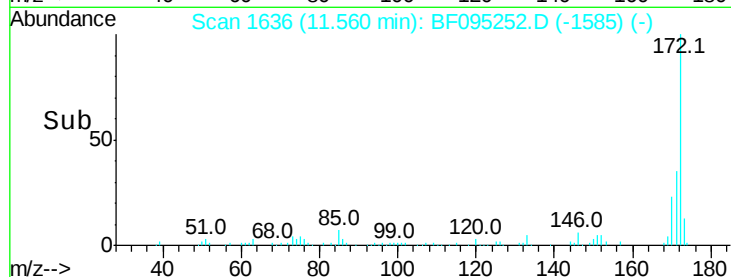
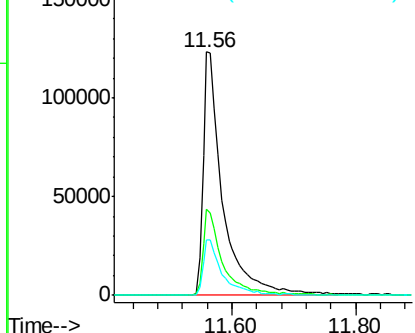
#44  
2-Fluorobiphenyl  
Concen: 19.39 ng  
RT: 11.56 min Scan# 1636  
Delta R.T. -0.00 min  
Lab File: BF095252.D  
Acq: 19 May 2017 7:48

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:172 Resp: 273736  
Ion Ratio Lower Upper  
172 100  
171 35.3 29.6 44.4  
170 22.9 19.8 29.8

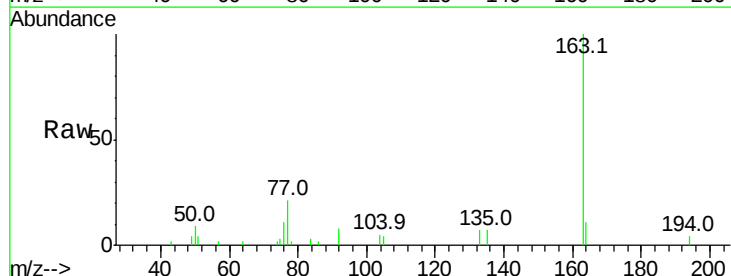


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

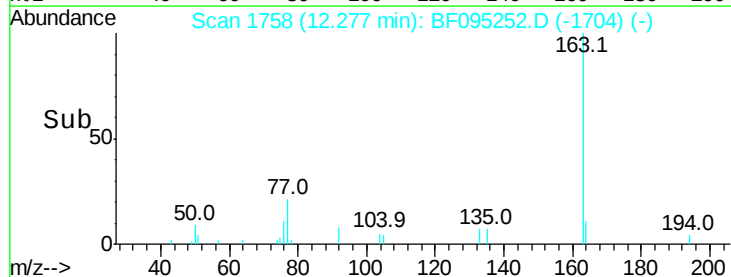
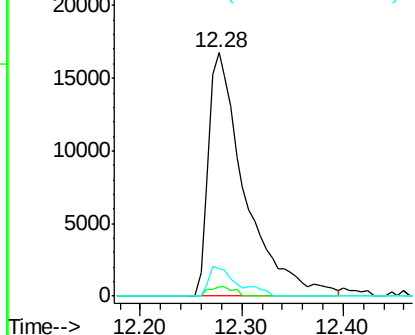


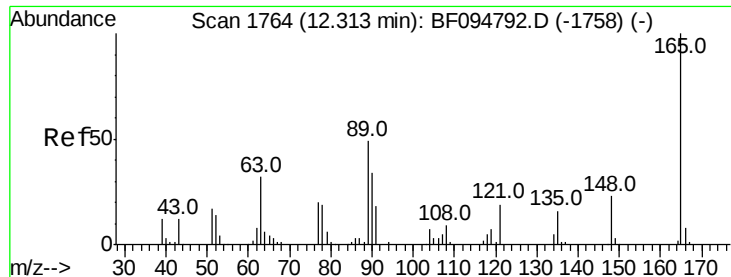
#49  
Dimethylphthalate  
Concen: 2.52 ng  
RT: 12.28 min Scan# 1758  
Delta R.T. 0.02 min  
Lab File: BF095252.D  
Acq: 19 May 2017 7:48

Tgt Ion:163 Resp: 41954  
Ion Ratio Lower Upper  
163 100  
194 4.0 2.6 4.0#  
164 11.3 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

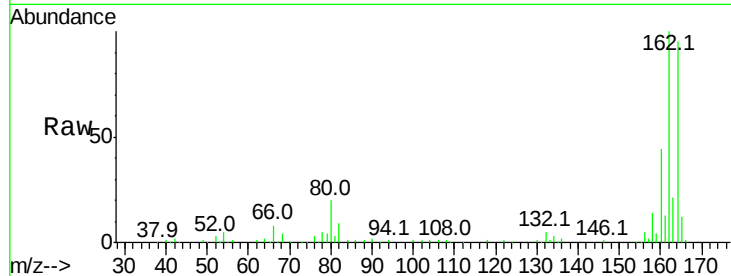




#50  
 2,6-Dinitrotoluene  
 Concen: 6.19 ng  
 RT: 12.62 min Scan# 1816  
 Delta R.T. 0.26 min  
 Lab File: BF095252.D  
 Acq: 19 May 2017 7:48

Instrument :  
 BNA\_F  
 ClientSampleId :

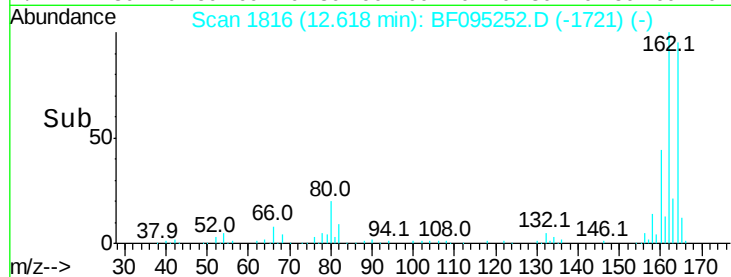
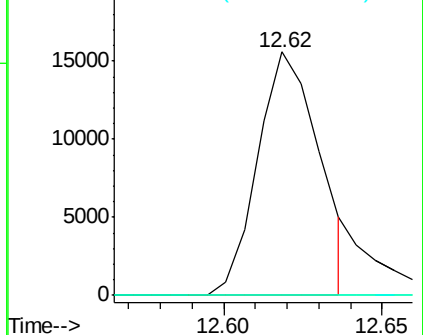
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 34.3  | 51.5# |
| 89      | 0.0   | 37.1  | 55.7# |



Abundance Ion 165.00 (164.70 to 165.70): E

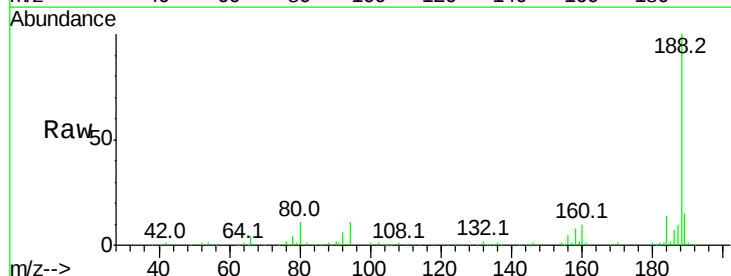
Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0



#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 15.02 min Scan# 2224  
 Delta R.T. -0.01 min  
 Lab File: BF095252.D  
 Acq: 19 May 2017 7:48

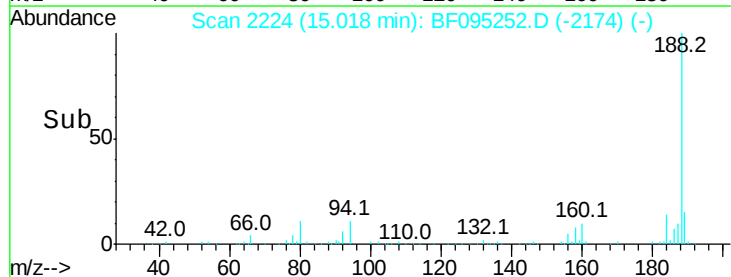
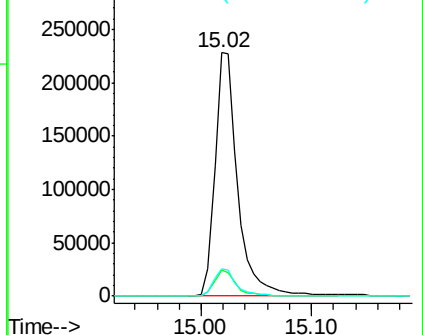
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 10.7  | 9.4   | 14.2  |
| 80      | 11.2  | 10.2  | 15.2  |

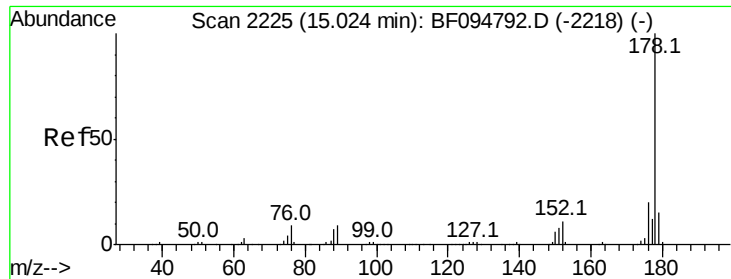


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

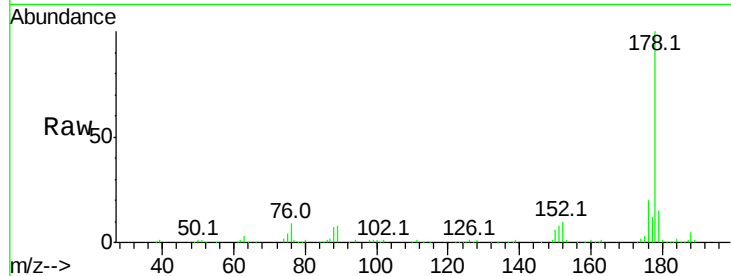




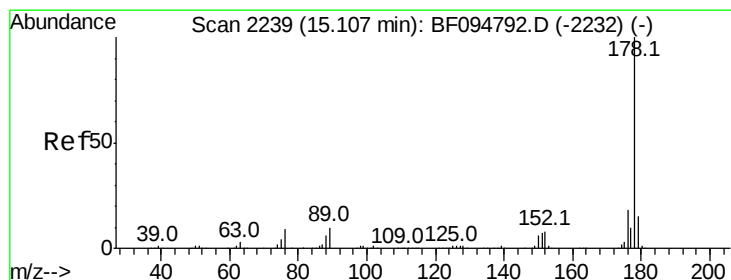
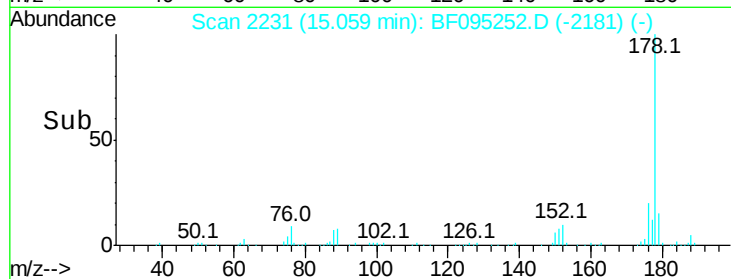
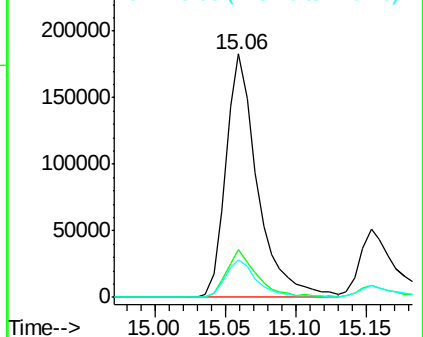
#70  
 Phenanthrene  
 Concen: 15.32 ng  
 RT: 15.06 min Scan# 2231  
 Delta R.T. -0.01 min  
 Lab File: BF095252.D  
 Acq: 19 May 2017 7:48

Instrument :  
 BNA\_F  
 ClientSampled :

Tot Ion:178 Resp: 286106  
 Ion Ratio Lower Upper  
 178 100  
 176 19.8 16.2 24.4  
 179 15.5 12.6 19.0

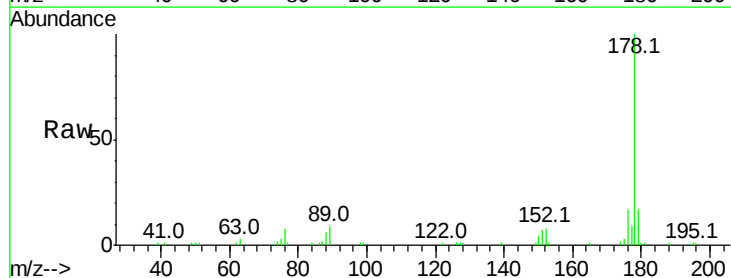


Abundance Ion 178.00 (177.70 to 178.70): E  
 Ion 176.00 (175.70 to 176.70): E  
 Ion 179.00 (178.70 to 179.70): E

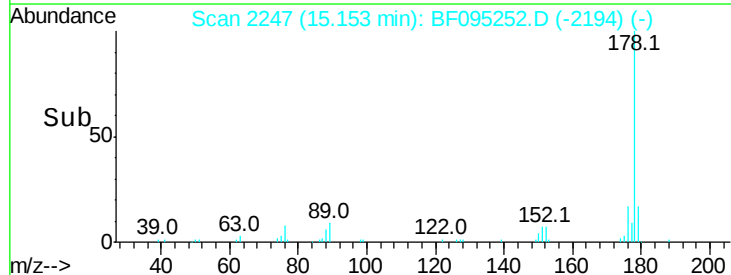
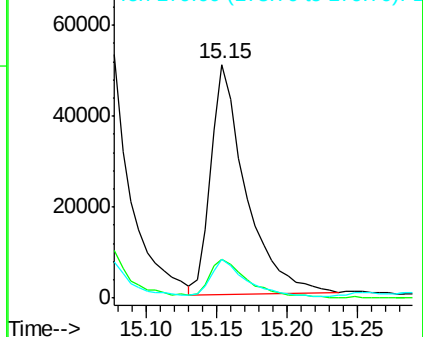


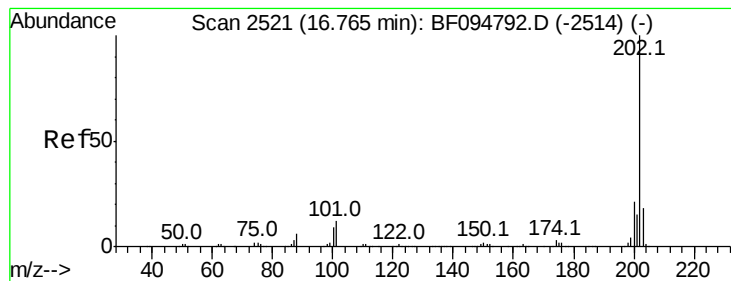
#71  
 Anthracene  
 Concen: 4.60 ng  
 RT: 15.15 min Scan# 2247  
 Delta R.T. 0.01 min  
 Lab File: BF095252.D  
 Acq: 19 May 2017 7:48

Tgt Ion:178 Resp: 87741  
 Ion Ratio Lower Upper  
 178 100  
 176 16.7 15.8 23.8  
 179 16.8 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: 30.35 ng

RT: 16.80 min Scan# 2527

Delta R.T. -0.00 min

Lab File: BF095252.D

Acq: 19 May 2017 7:48

Instrument :

BNA\_F

ClientSampleId :

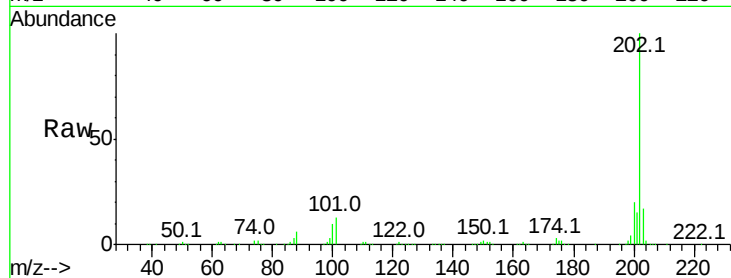
Tot Ion:202 Resp: 581547

Ion Ratio Lower Upper

202 100

101 13.4 0.0 33.2

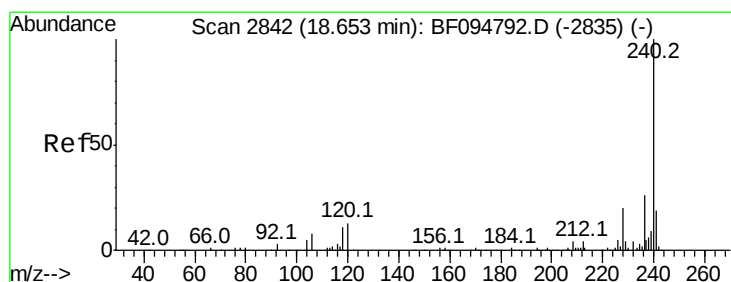
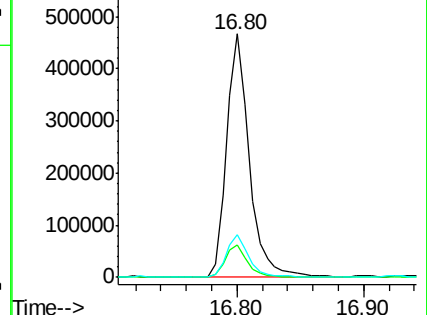
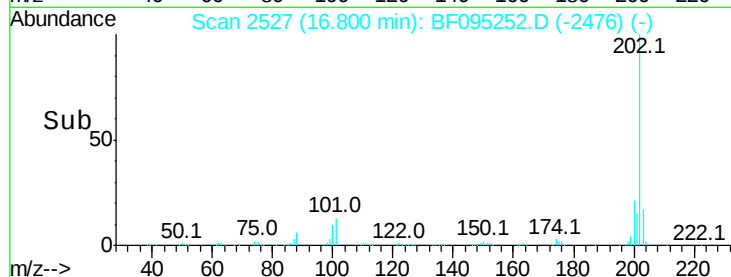
203 17.4 0.0 38.1



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: 18.69 min Scan# 2848

Delta R.T. -0.01 min

Lab File: BF095252.D

Acq: 19 May 2017 7:48

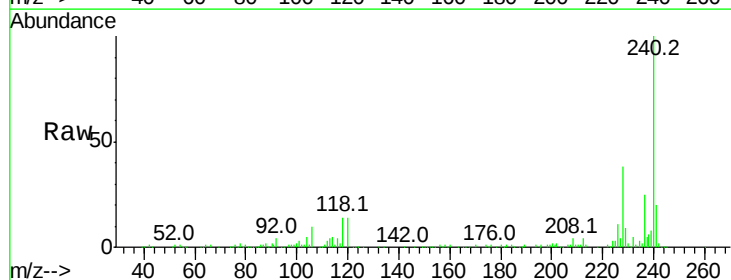
Tgt Ion:240 Resp: 202953

Ion Ratio Lower Upper

240 100

120 14.1 5.8 8.8#

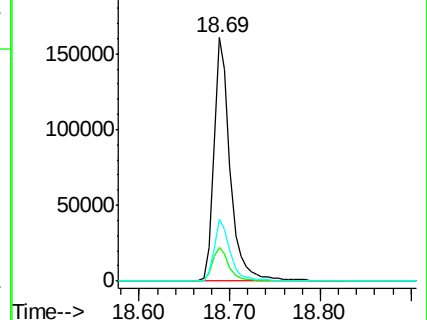
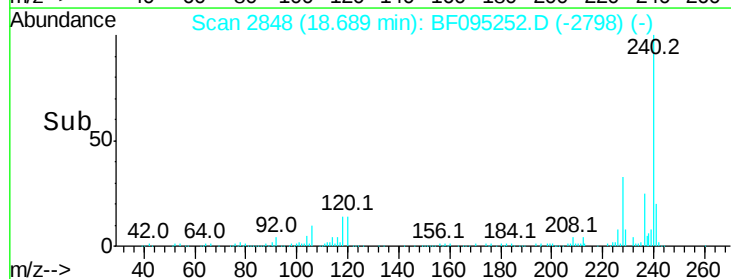
236 25.3 20.5 30.7

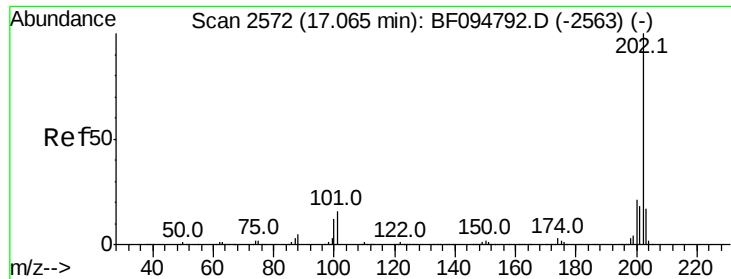


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

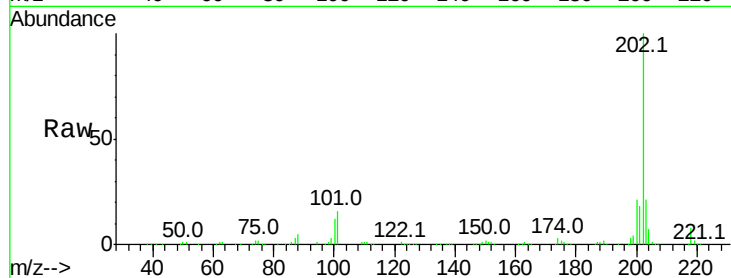




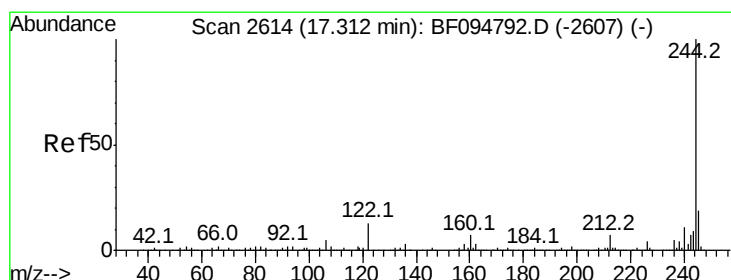
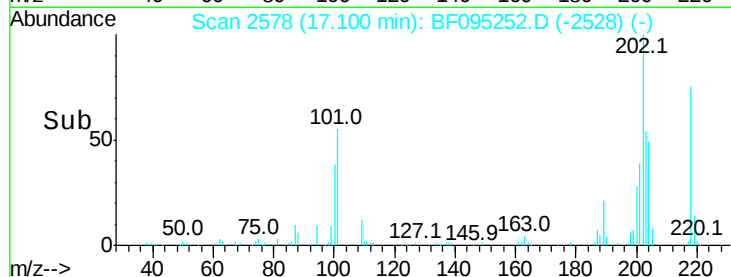
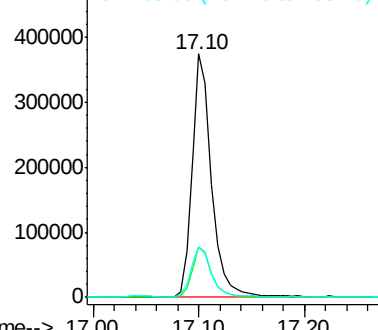
#77  
Pvrene  
Concen: 31.70 ng  
RT: 17.10 min Scan# 2578  
Delta R.T. -0.01 min  
Lab File: BF095252.D  
Acq: 19 May 2017 7:48

Instrument :  
BNA\_F  
ClientSampled :

Tot Ion:202 Resp: 481154  
Ion Ratio Lower Upper  
202 100  
200 20.8 17.6 26.4  
203 20.9 14.4 21.6

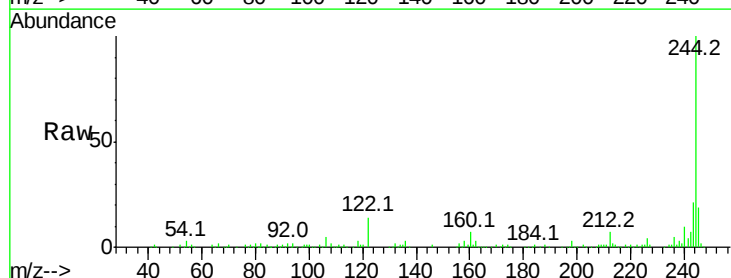


Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 200.00 (199.70 to 200.70): E  
Ion 203.00 (202.70 to 203.70): E

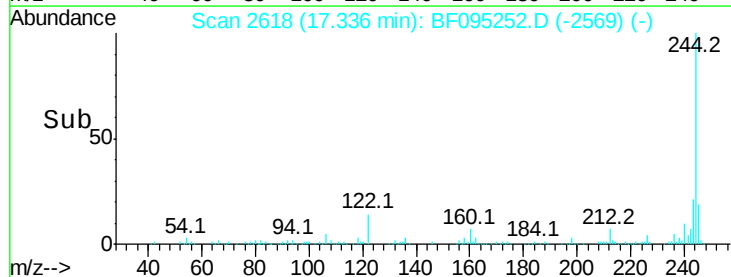
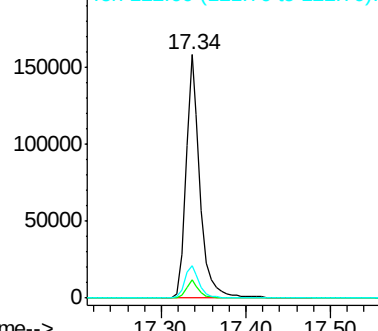


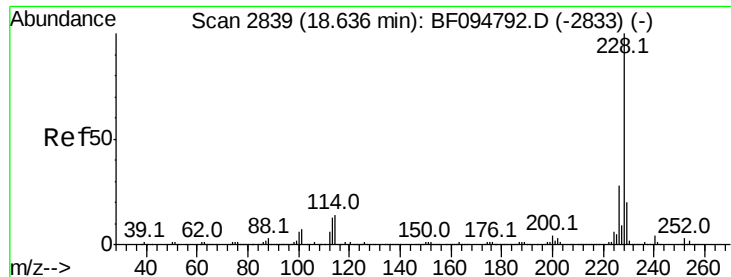
#78  
Terphenyl-d14  
Concen: 20.14 ng  
RT: 17.34 min Scan# 2618  
Delta R.T. -0.01 min  
Lab File: BF095252.D  
Acq: 19 May 2017 7:48

Tgt Ion:244 Resp: 185582  
Ion Ratio Lower Upper  
244 100  
212 7.5 6.0 9.0  
122 13.5 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: 14.68 ng

RT: 18.68 min Scan# 2846

Delta R.T. -0.01 min

Lab File: BF095252.D

Acq: 19 May 2017 7:48

Instrument :

BNA\_F

ClientSampleId :

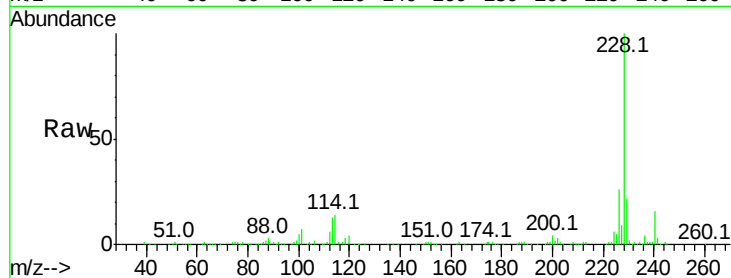
Tot Ion:228 Resp: 173400

Ion Ratio Lower Upper

228 100

226 26.3 22.6 33.8

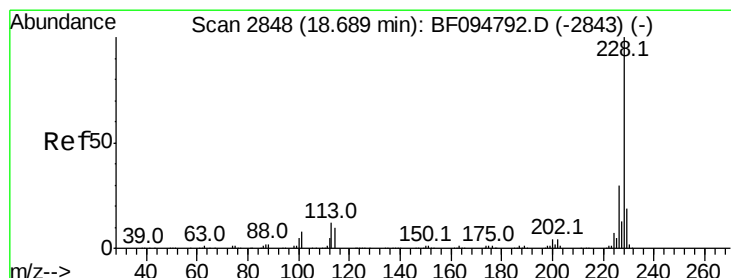
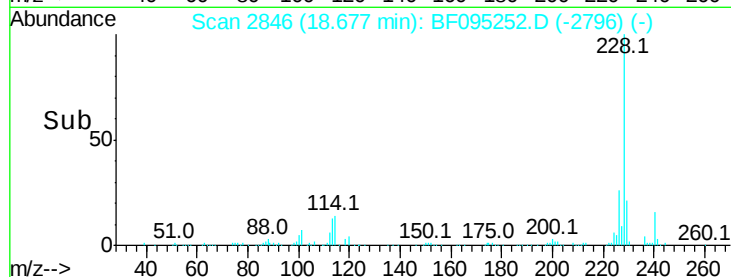
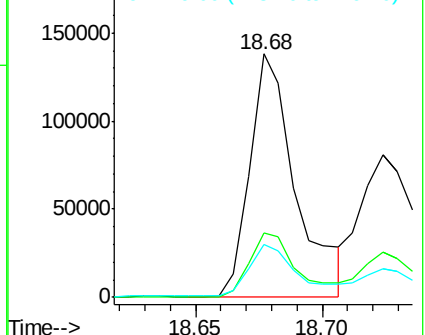
229 21.5 16.3 24.5



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: 11.43 ng

RT: 18.72 min Scan# 2854

Delta R.T. -0.01 min

Lab File: BF095252.D

Acq: 19 May 2017 7:48

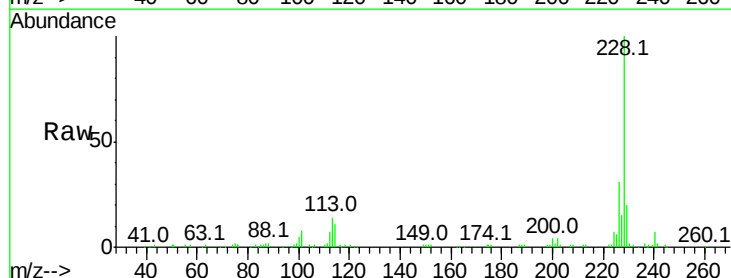
Tgt Ion:228 Resp: 130521

Ion Ratio Lower Upper

228 100

226 31.4 24.9 37.3

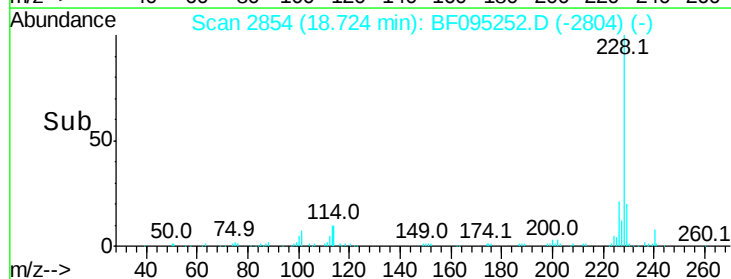
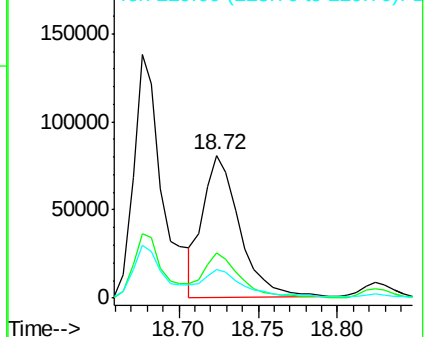
229 20.0 15.8 23.6

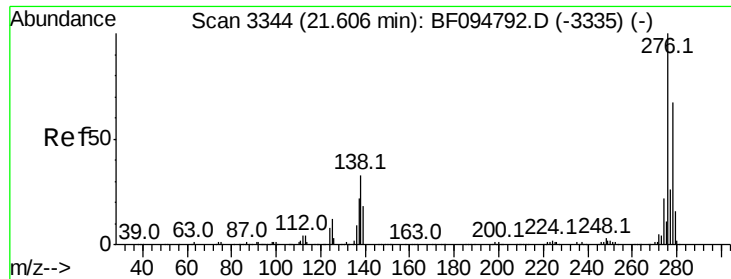


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

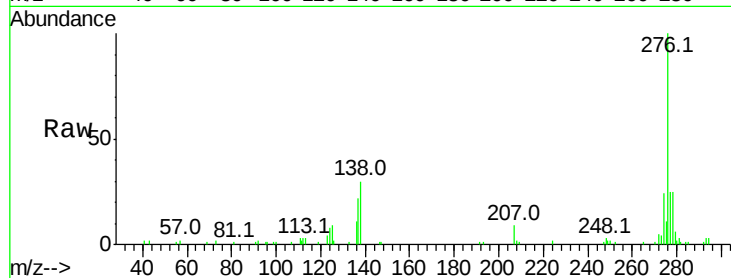




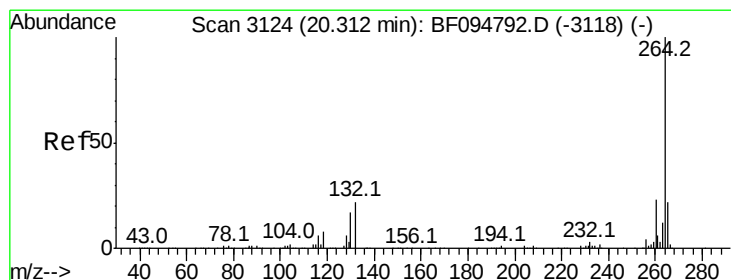
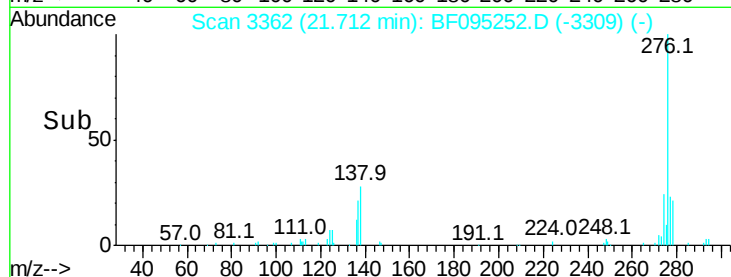
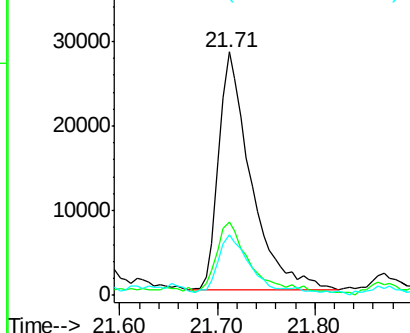
#85  
Indeno(1,2,3-cd)pyrene  
Concen: 6.99 ng  
RT: 21.71 min Scan# 3362  
Delta R.T. 0.01 min  
Lab File: BF095252.D  
Acq: 19 May 2017 7:48

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:276 Resp: 64849  
Ion Ratio Lower Upper  
276 100  
138 35.1 27.8 41.6  
277 22.7 20.2 30.4

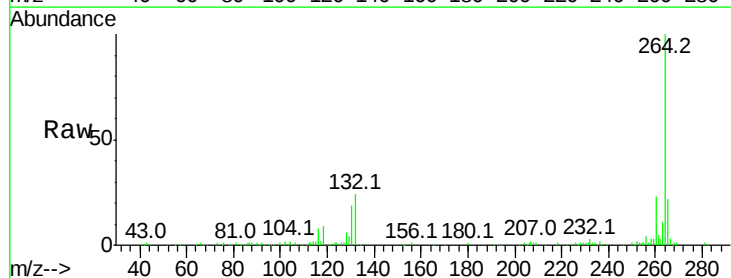


Abundance Ion 276.00 (275.70 to 276.70): E  
Ion 138.00 (137.70 to 138.70): E  
Ion 277.00 (276.70 to 277.70): E

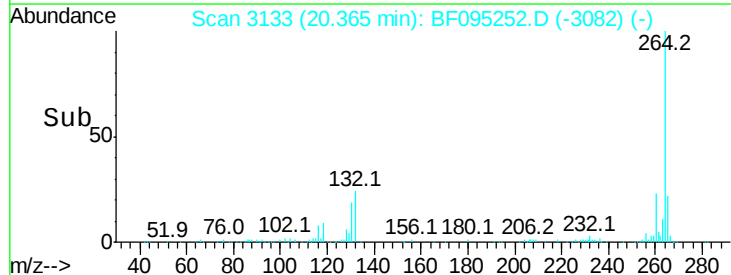
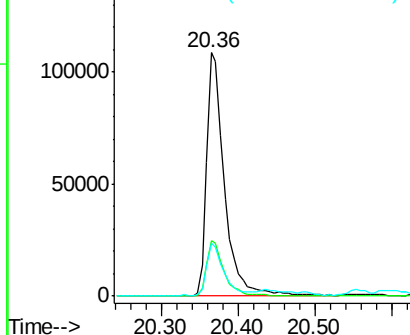


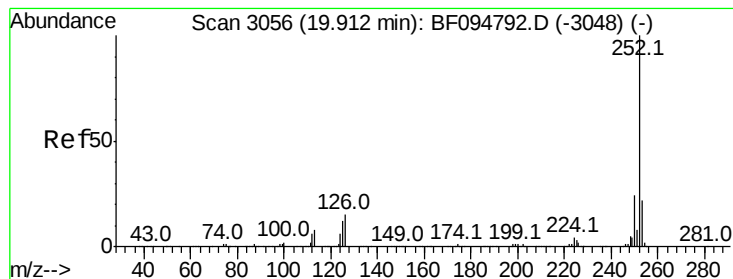
#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 20.36 min Scan# 3133  
Delta R.T. -0.00 min  
Lab File: BF095252.D  
Acq: 19 May 2017 7:48

Tgt Ion:264 Resp: 173530  
Ion Ratio Lower Upper  
264 100  
260 22.7 19.5 29.3  
265 21.6 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





#87

Benzo(b)fluoranthene

Concen: 19.83 ng

RT: 19.96 min Scan# 3065

Delta R.T. 0.01 min

Lab File: BF095252.D

Acq: 19 May 2017 7:48

Instrument :

BNA\_F

ClientSampleId :

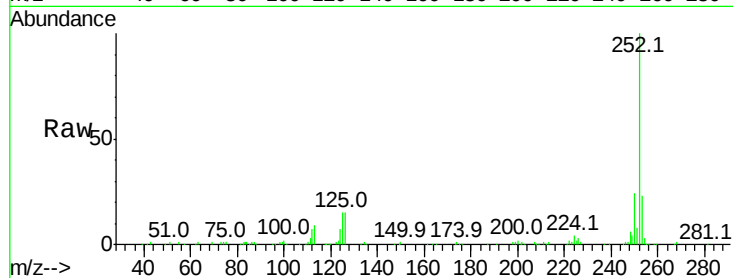
Tot Ion:252 Resp: 212629

Ion Ratio Lower Upper

252 100

253 22.8 18.1 27.1

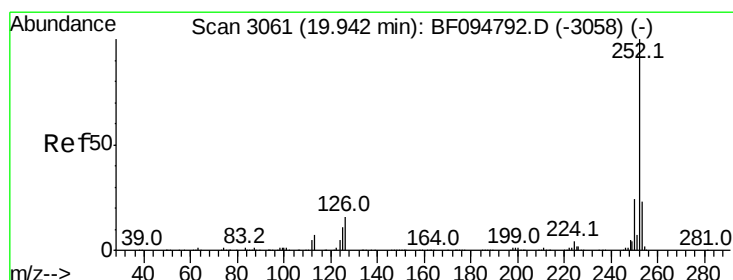
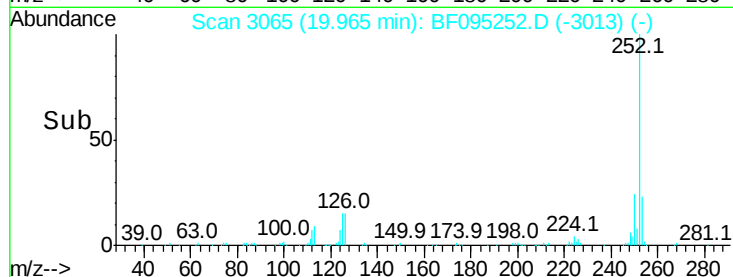
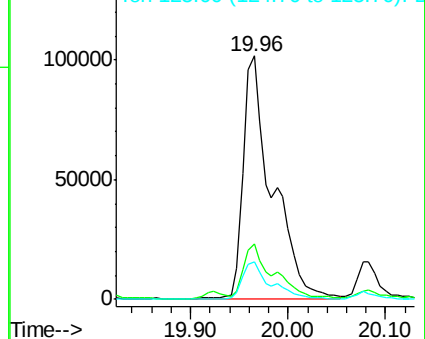
125 15.2 9.8 14.8#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#88

Benzo(k)fluoranthene

Concen: 20.56 ng

RT: 19.96 min Scan# 3065

Delta R.T. -0.02 min

Lab File: BF095252.D

Acq: 19 May 2017 7:48

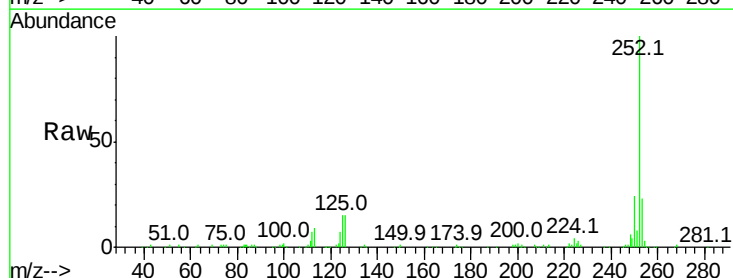
Tgt Ion:252 Resp: 212629

Ion Ratio Lower Upper

252 100

253 22.8 18.4 27.6

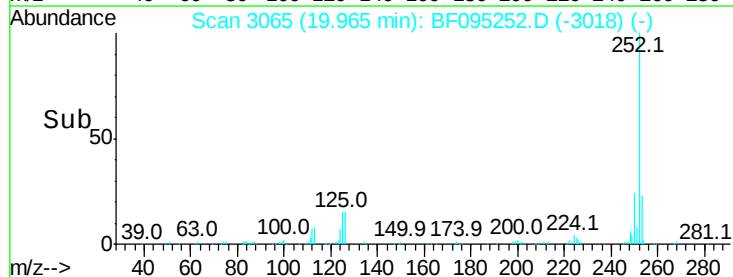
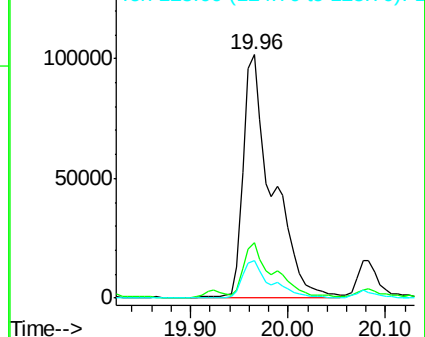
125 15.2 13.1 19.7

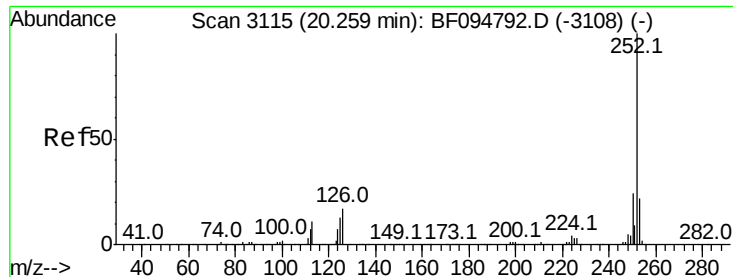


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

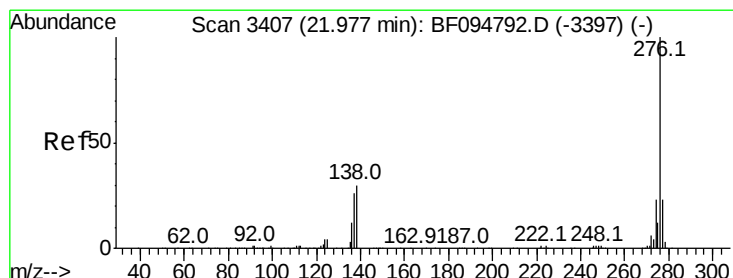
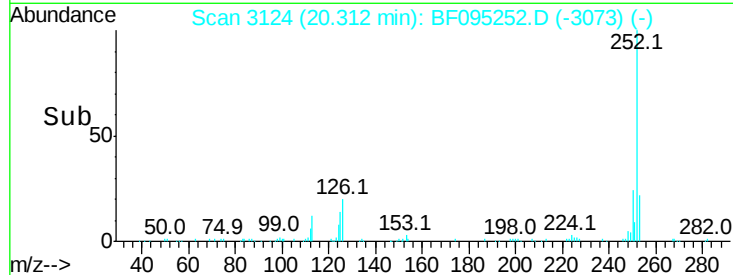
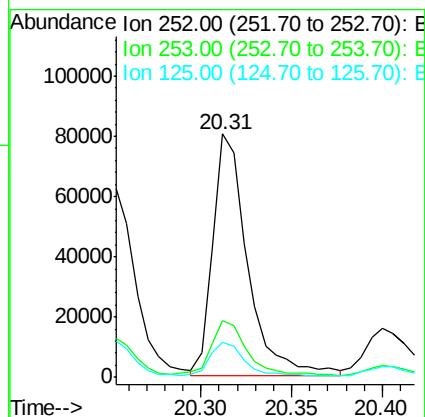
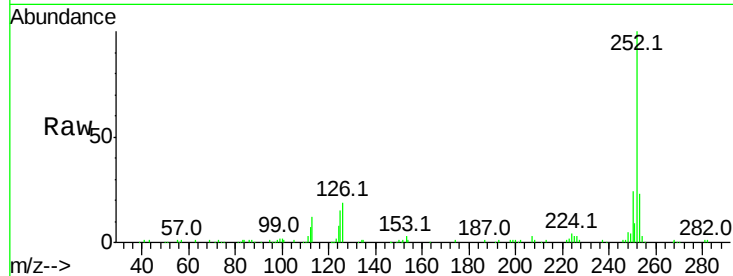




#89  
Benzo(a)pyrene  
Concen: 10.84 ng  
RT: 20.31 min Scan# 3124  
Delta R.T. -0.00 min  
Lab File: BF095252.D  
Acq: 19 May 2017 7:48

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:252 Resp: 107225  
Ion Ratio Lower Upper  
252 100  
253 23.1 17.5 26.3  
125 14.6 11.0 16.4



#91  
Benzo(g,h,i)perylene  
Concen: 8.23 ng  
RT: 22.10 min Scan# 3428  
Delta R.T. 0.02 min  
Lab File: BF095252.D  
Acq: 19 May 2017 7:48

Tgt Ion:276 Resp: 66011  
Ion Ratio Lower Upper  
276 100  
277 25.9 18.6 28.0  
138 30.2 25.4 38.0

