

Data Path : Z:\HPCHEM1\BNA F\Data\BF051817\  
 Data File : BF095257.D  
 Acq On : 19 May 2017 10:29  
 Operator : SJ/MA  
 Sample : I3186-11  
 Misc :  
 ALS Vial : 33 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: May 19 11:48:50 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

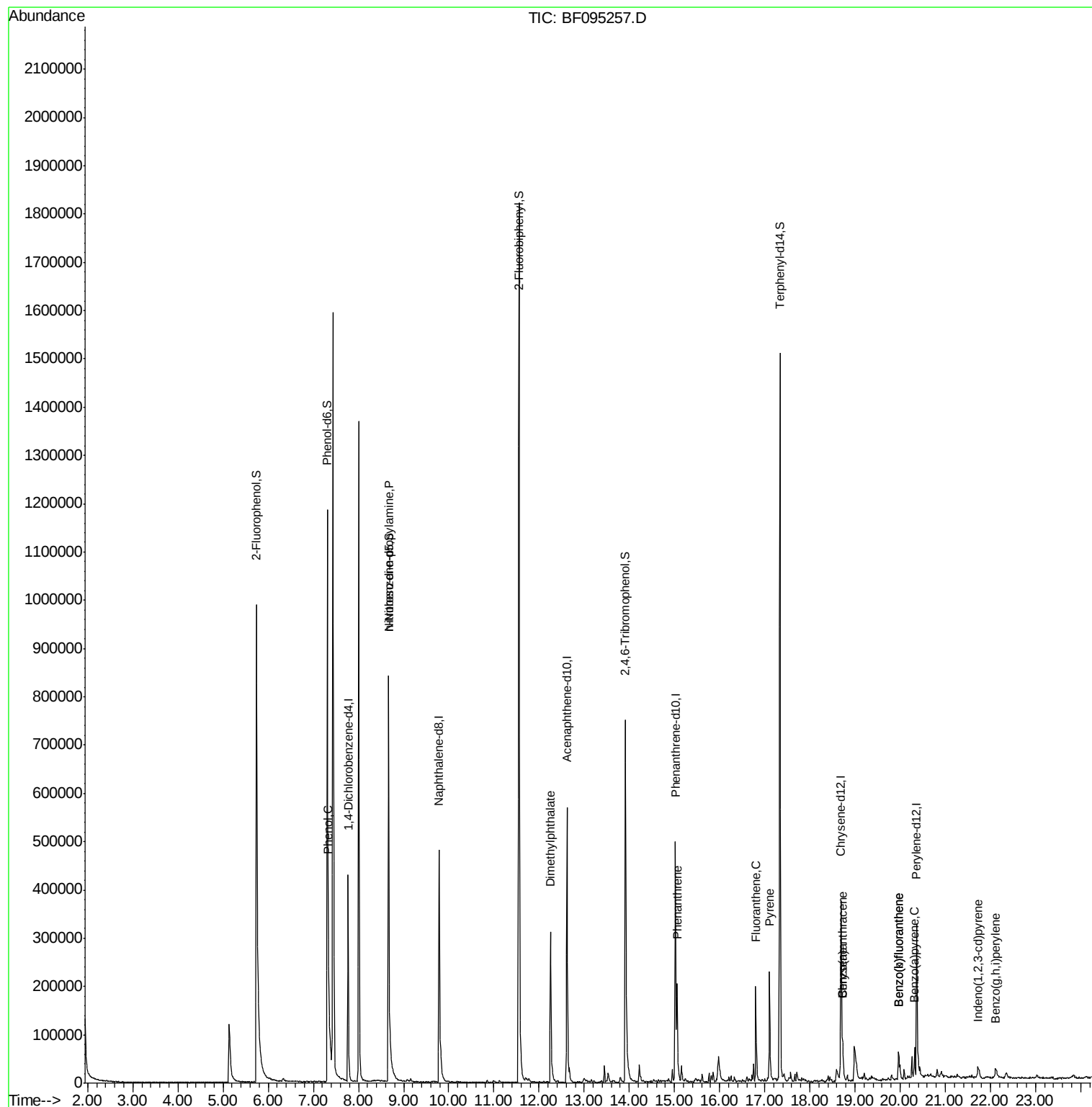
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.77  | 152  | 102046   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 9.78  | 136  | 443729   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 12.62 | 164  | 187598   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10           | 15.02 | 188  | 308515   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 18.69 | 240  | 193558   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 20.37 | 264  | 175369   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.74  | 112  | 703331   | 114.91 | ng    | 0.00     |
| 7) Phenol-d6                   | 7.31  | 99   | 856902   | 116.68 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 8.67  | 82   | 497477   | 70.70  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 13.91 | 330  | 160589   | 104.53 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 11.55 | 172  | 929728   | 71.33  | ng    | 0.00     |
| 78) Terphenyl-d14              | 17.34 | 244  | 610324   | 69.45  | ng    | -0.01    |
| Target Compounds               |       |      |          |        |       |          |
| 10) Phenol                     | 7.33  | 94   | 18867    | 2.44   | ng    | # 52     |
| 19) n-Nitroso-di-n-propylamine | 8.67  | 70   | 60572    | 12.20  | ng    | # 76     |
| 49) Dimethylphthalate          | 12.25 | 163  | 256206   | 16.64  | ng    | 100      |
| 70) Phenanthrene               | 15.06 | 178  | 122791   | 6.93   | ng    | 95       |
| 74) Fluoranthene               | 16.80 | 202  | 130073   | 7.15   | ng    | 99       |
| 77) Pyrene                     | 17.11 | 202  | 121014   | 8.36   | ng    | # 95     |
| 80) Benzo(a)anthracene         | 18.72 | 228  | 35000    | 3.11   | ng    | 96       |
| 82) Chrysene                   | 18.72 | 228  | 35000    | 3.21   | ng    | 99       |
| 85) Indeno(1,2,3-cd)pyrene     | 21.73 | 276  | 18662    | 2.11   | ng    | 93       |
| 87) Benzo(b)fluoranthene       | 19.97 | 252  | 51912    | 4.79   | ng    | # 96     |
| 88) Benzo(k)fluoranthene       | 19.97 | 252  | 51912    | 4.97   | ng    | 100      |
| 89) Benzo(a)pyrene             | 20.32 | 252  | 31332    | 3.13   | ng    | 95       |
| 91) Benzo(a,h,i)perylene       | 22.12 | 276  | 19102    | 2.36   | ng    | 96       |

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

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
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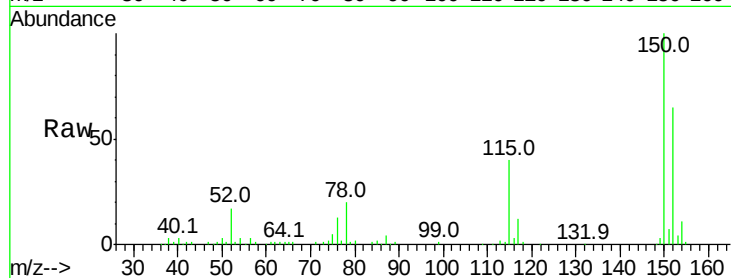


#1

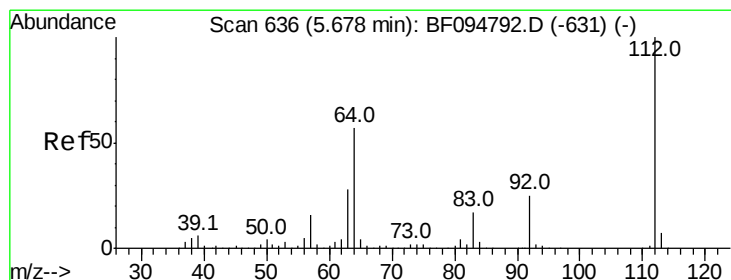
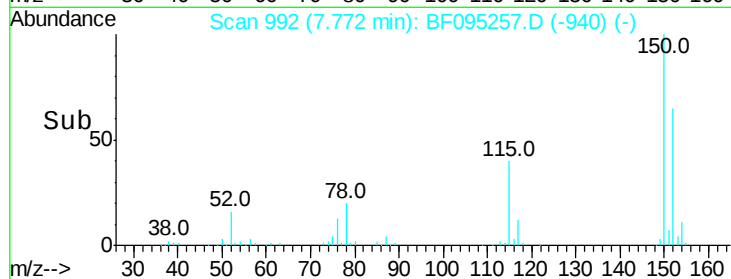
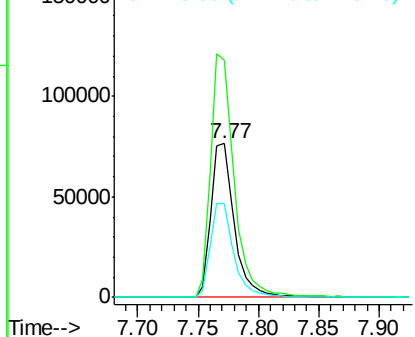
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 7.77 min Scan# 992  
Delta R.T. 0.01 min  
Lab File: BF095257.D  
Acq: 19 May 2017 10:29

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 102046  
Ion Ratio Lower Upper  
152 100  
150 154.3 126.2 189.2  
115 61.1 52.2 78.2



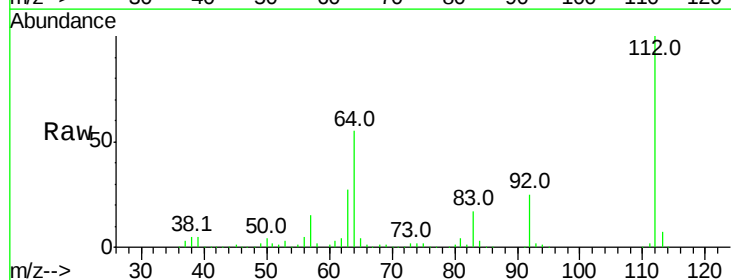
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



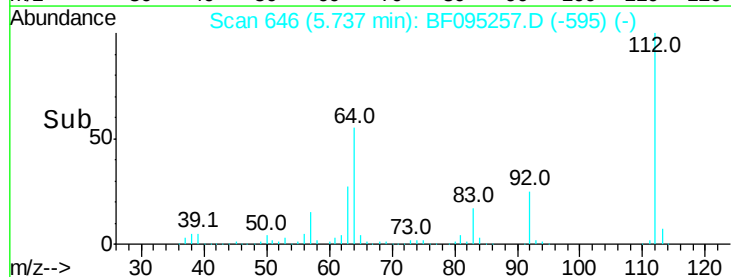
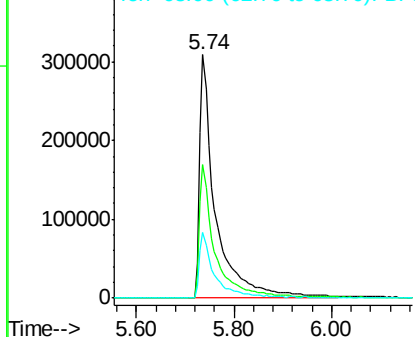
#5

2-Fluorophenol  
Concen: 114.91 ng  
RT: 5.74 min Scan# 646  
Delta R.T. 0.00 min  
Lab File: BF095257.D  
Acq: 19 May 2017 10:29

Tgt Ion:112 Resp: 703331  
Ion Ratio Lower Upper  
112 100  
64 54.6 46.0 69.0  
63 27.1 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: 116.68 ng

RT: 7.31 min Scan# 913

Delta R.T. -0.01 min

Lab File: BF095257.D

Acq: 19 May 2017 10:29

Instrument :

BNA\_F

ClientSampleId :

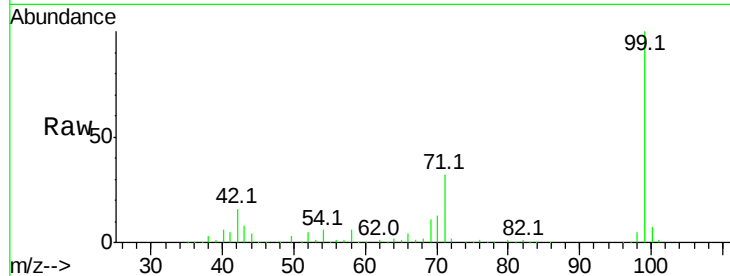
Tot Ion: 99 Resp: 856902

Ion Ratio Lower Upper

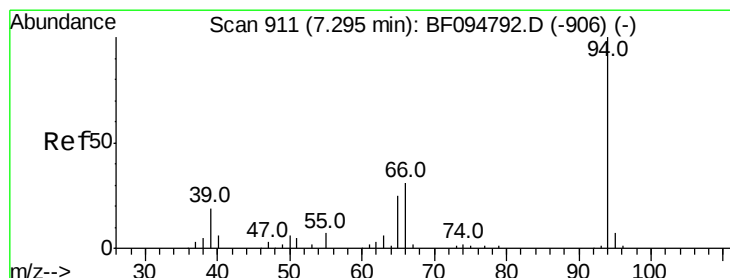
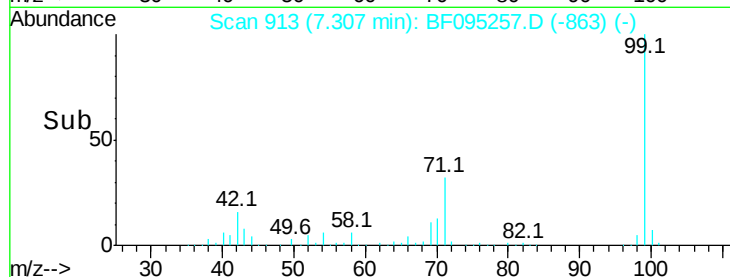
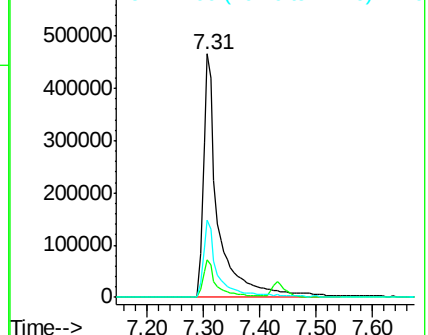
99 100

42 15.5 13.5 20.3

71 31.7 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: 2.44 ng

RT: 7.33 min Scan# 917

Delta R.T. 0.00 min

Lab File: BF095257.D

Acq: 19 May 2017 10:29

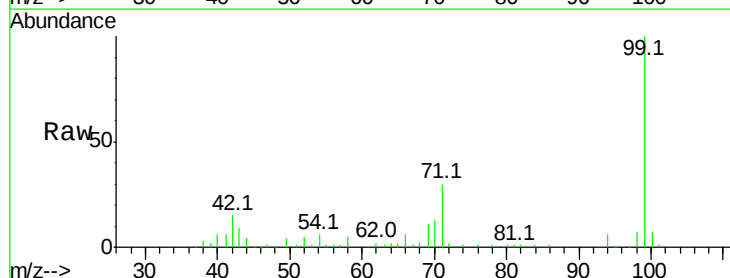
Tgt Ion: 94 Resp: 18867

Ion Ratio Lower Upper

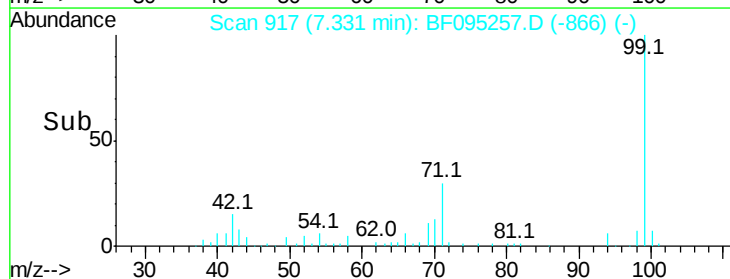
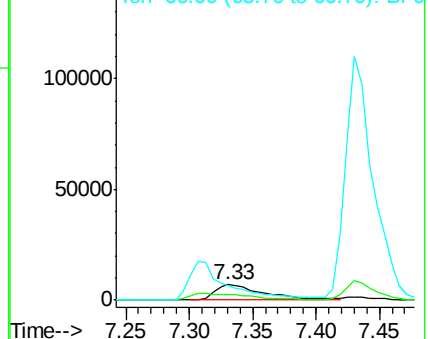
94 100

65 34.7 9.9 49.9

66 90.7 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

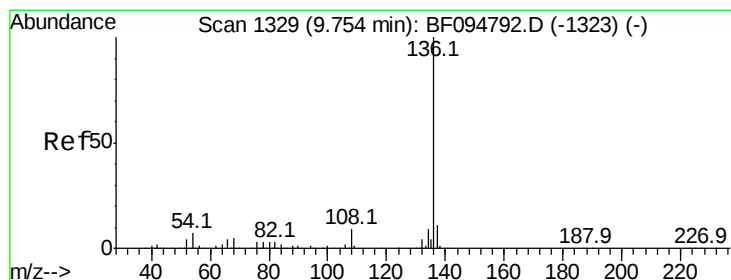
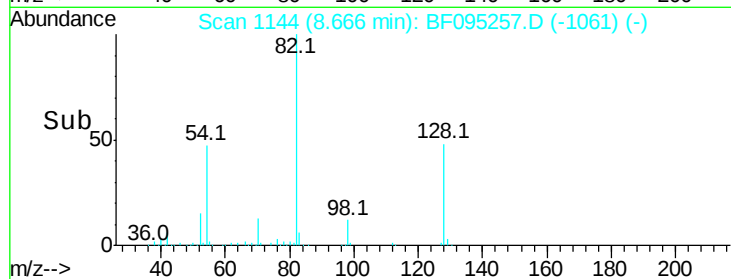
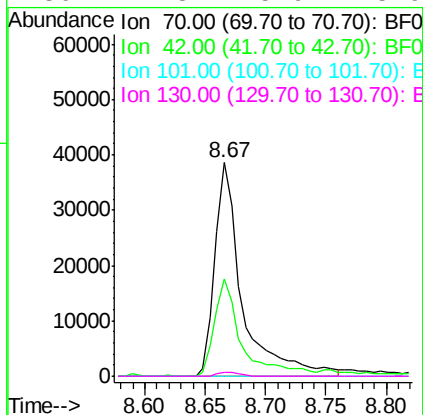
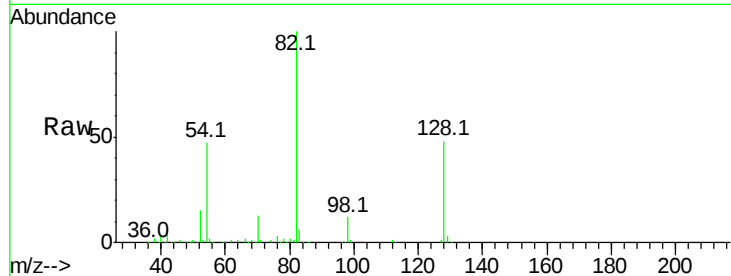




#19  
n-Nitroso-di-n-propylamine  
Concen: 12.20 ng  
RT: 8.67 min Scan# 1144  
Delta R.T. 0.19 min  
Lab File: BF095257.D  
Acq: 19 May 2017 10:29

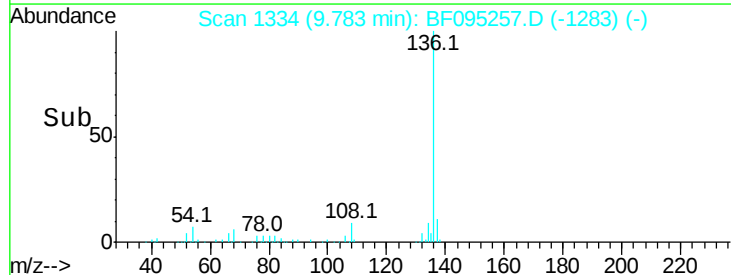
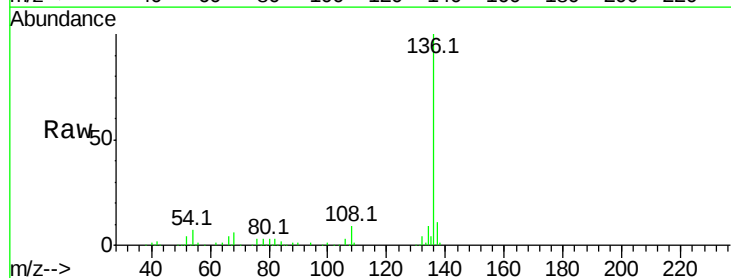
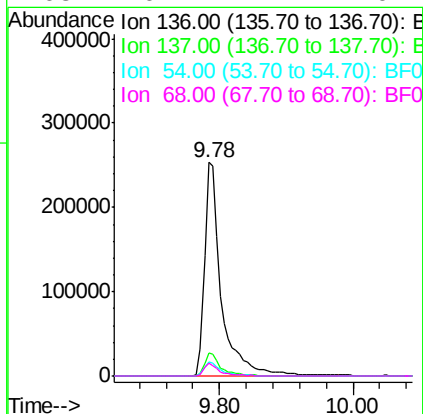
Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion: 70 Resp: 60572  
Ion Ratio Lower Upper  
70 100  
42 45.3 47.2 70.8#  
101 0.0 7.2 10.8#  
130 1.8 15.9 23.9#



#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 9.78 min Scan# 1334  
Delta R.T. 0.00 min  
Lab File: BF095257.D  
Acq: 19 May 2017 10:29

Tgt Ion: 136 Resp: 443729  
Ion Ratio Lower Upper  
136 100  
137 10.6 8.5 12.7  
54 6.9 4.9 7.3  
68 6.1 4.1 6.1

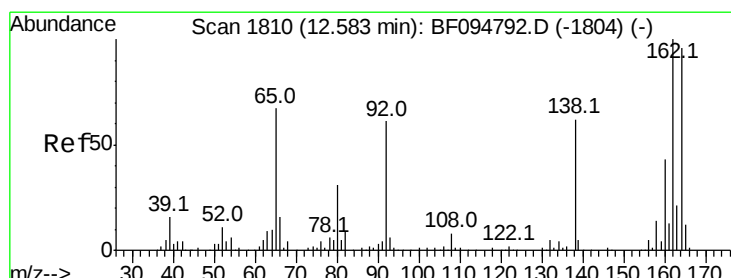
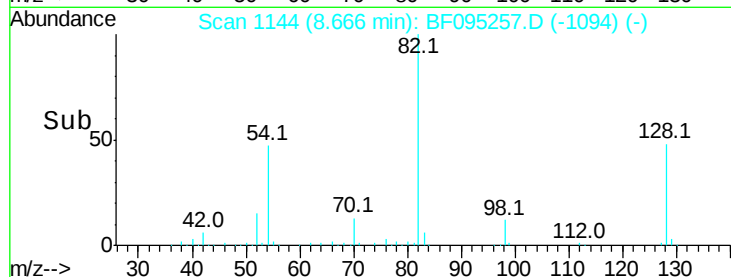
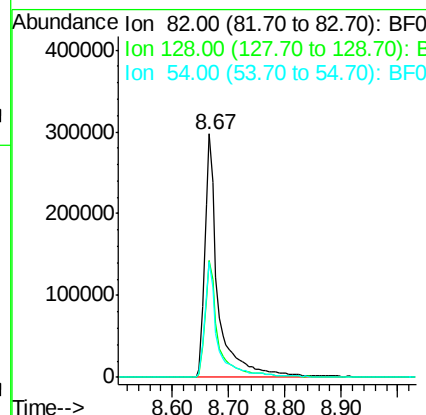
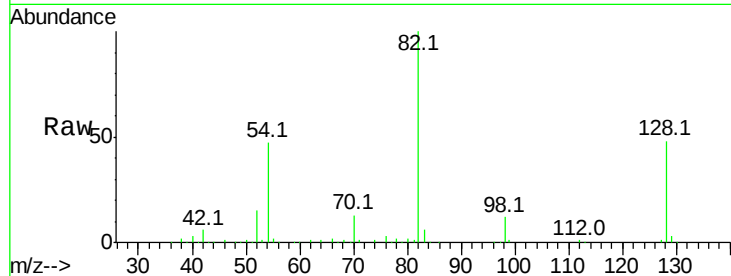




#23  
 Nitrobenzene-d5  
 Concen: 70.70 ng  
 RT: 8.67 min Scan# 1144  
 Delta R.T. -0.01 min  
 Lab File: BF095257.D  
 Acq: 19 May 2017 10:29

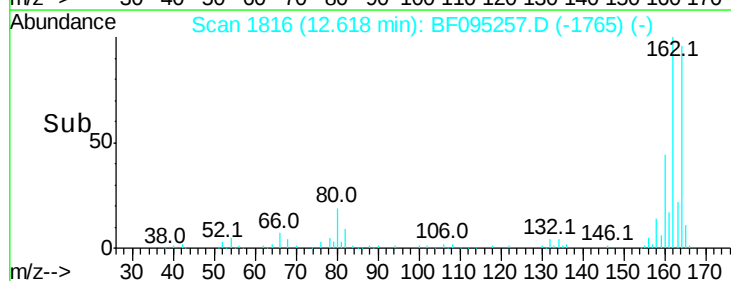
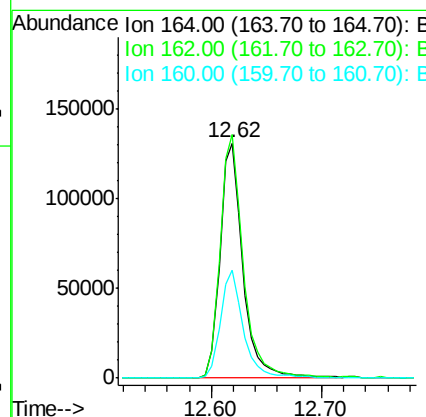
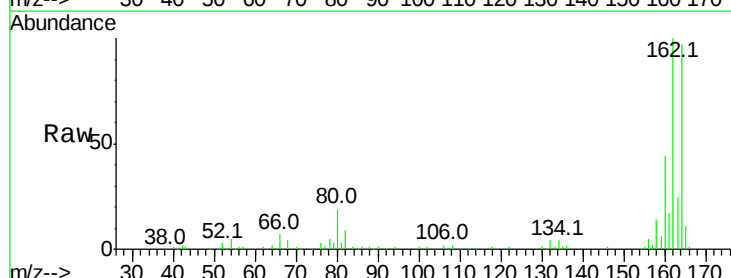
Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 47.9  | 34.0  | 51.0  |
| 54      | 47.3  | 42.2  | 63.2  |



#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 12.62 min Scan# 1816  
 Delta R.T. 0.00 min  
 Lab File: BF095257.D  
 Acq: 19 May 2017 10:29

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 103.5 | 82.6  | 123.8 |
| 160     | 45.7  | 36.2  | 54.2  |

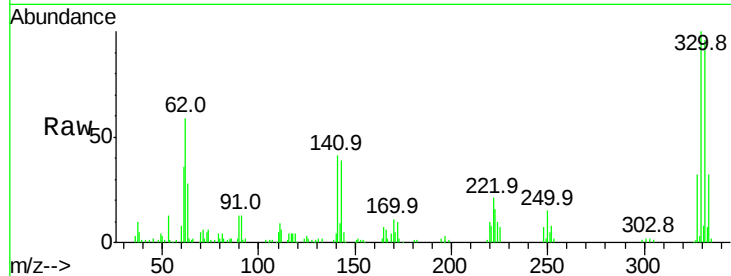




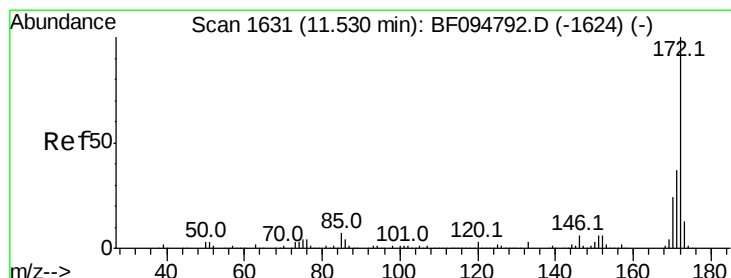
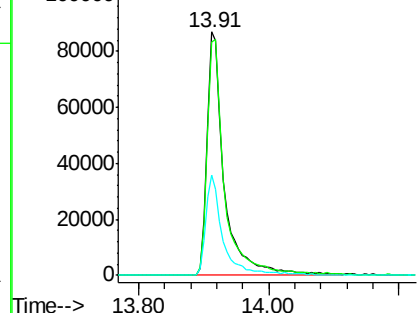
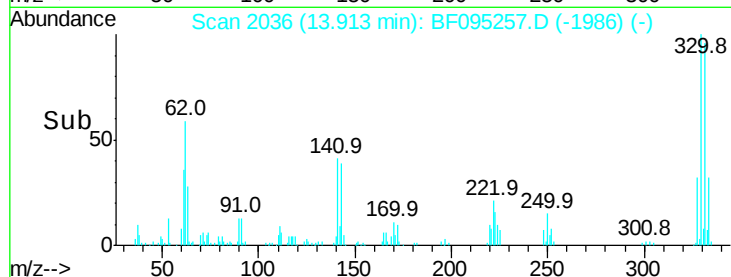
#41  
 2,4,6-Tribromophenol  
 Concen: 104.53 ng  
 RT: 13.91 min Scan# 2036  
 Delta R.T. -0.01 min  
 Lab File: BF095257.D  
 Acq: 19 May 2017 10:29

Instrument :  
 BNA\_F  
 ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 98.1  | 76.6  | 115.0 |
| 141     | 40.4  | 31.4  | 47.2  |

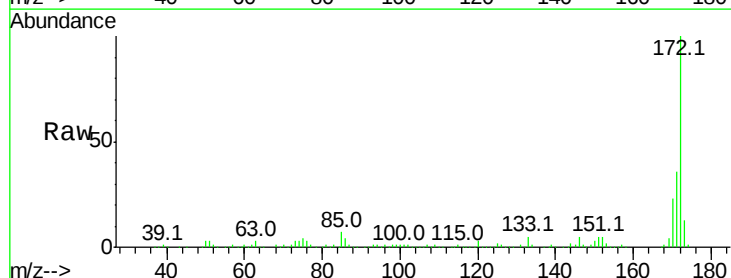


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

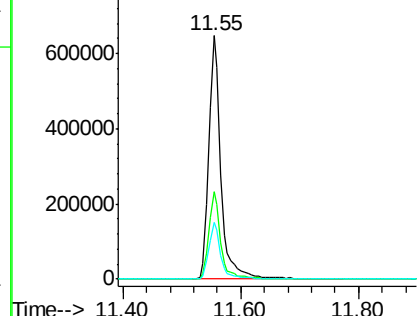
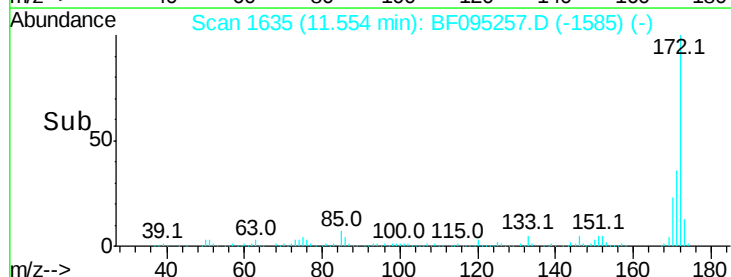


#44  
 2-Fluorobiphenyl  
 Concen: 71.33 ng  
 RT: 11.55 min Scan# 1635  
 Delta R.T. -0.01 min  
 Lab File: BF095257.D  
 Acq: 19 May 2017 10:29

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.7  | 29.6  | 44.4  |
| 170     | 23.2  | 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: 16.64 ng

RT: 12.25 min Scan# 1754

Delta R.T. -0.01 min

Lab File: BF095257.D

Acq: 19 May 2017 10:29

Instrument :

BNA\_F

ClientSampleId :

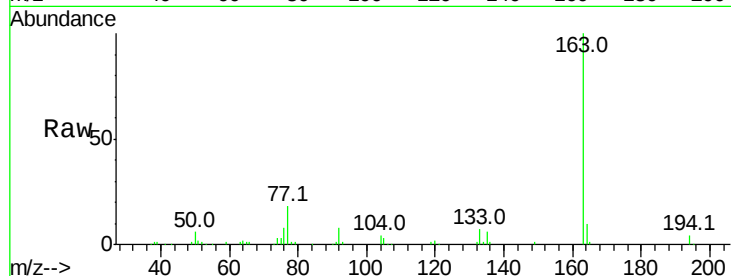
Tot Ion:163 Resp: 256206

Ion Ratio Lower Upper

163 100

194 3.7 2.6 4.0

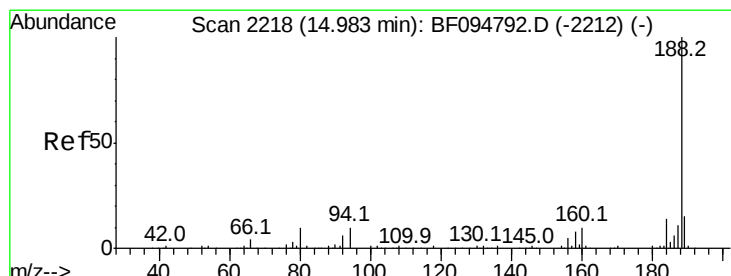
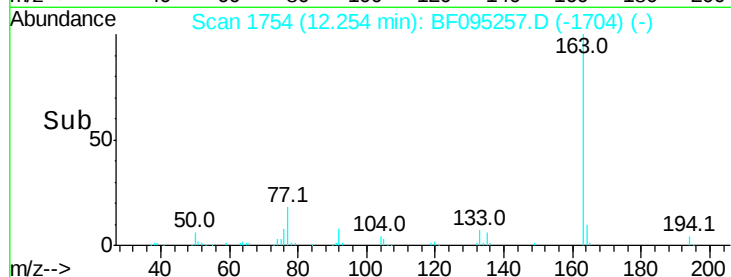
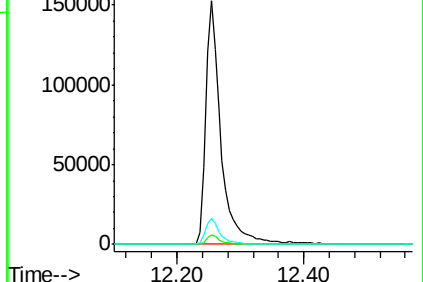
164 10.5 8.4 12.6



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: 15.02 min Scan# 2224

Delta R.T. -0.01 min

Lab File: BF095257.D

Acq: 19 May 2017 10:29

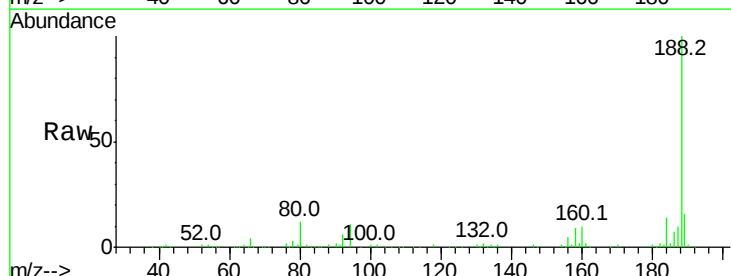
Tgt Ion:188 Resp: 308515

Ion Ratio Lower Upper

188 100

94 10.6 9.4 14.2

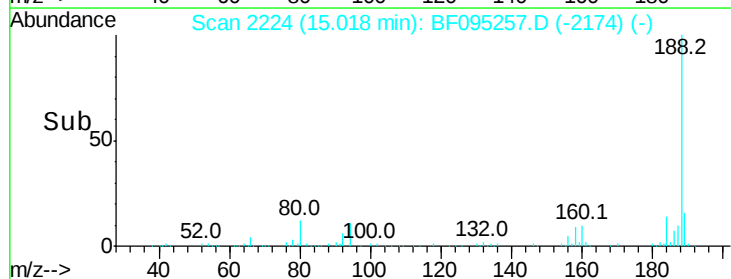
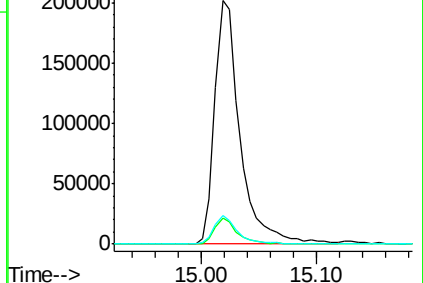
80 11.5 10.2 15.2

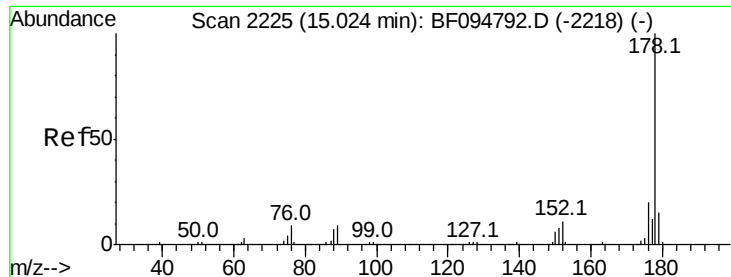


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

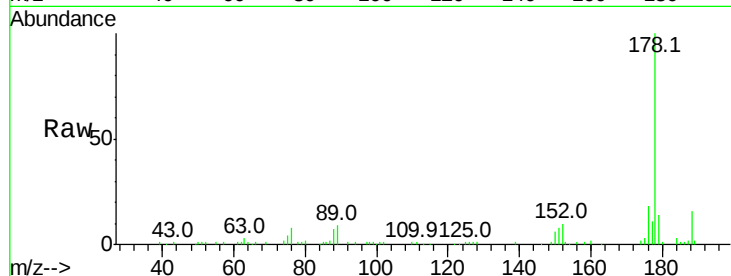




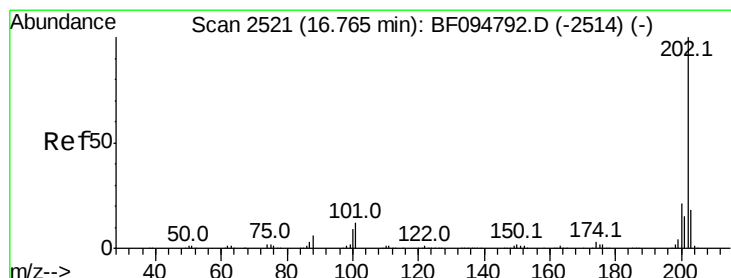
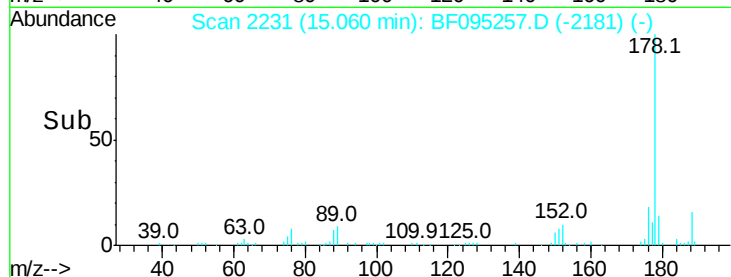
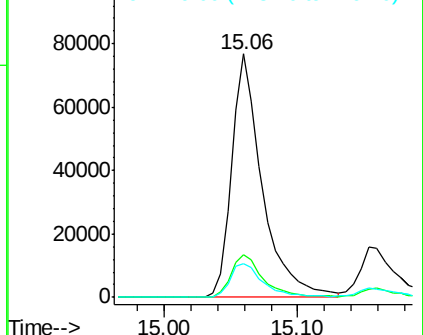
#70  
Phenanthrene  
Concen: 6.93 ng  
RT: 15.06 min Scan# 2231  
Delta R.T. -0.01 min  
Lab File: BF095257.D  
Acq: 19 May 2017 10:29

Instrument :  
BNA\_F  
ClientSampled :

Tot Ion:178 Resp: 122791  
Ion Ratio Lower Upper  
178 100  
176 17.5 16.2 24.4  
179 13.8 12.6 19.0

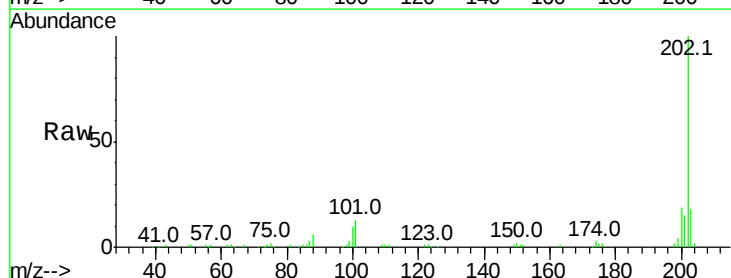


Abundance Ion 178.00 (177.70 to 178.70): E  
Ion 176.00 (175.70 to 176.70): E  
Ion 179.00 (178.70 to 179.70): E

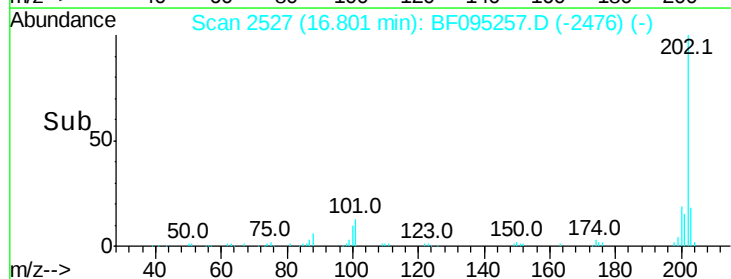
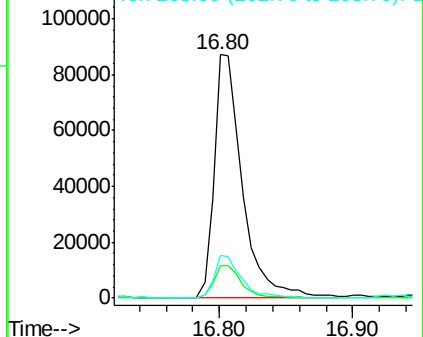


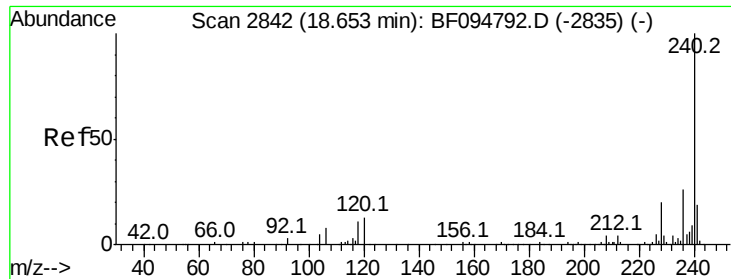
#74  
Fluoranthene  
Concen: 7.15 ng  
RT: 16.80 min Scan# 2527  
Delta R.T. 0.00 min  
Lab File: BF095257.D  
Acq: 19 May 2017 10:29

Tgt Ion:202 Resp: 130073  
Ion Ratio Lower Upper  
202 100  
101 13.5 0.0 33.2  
203 17.7 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# 2849

Delta R.T. 0.00 min

Lab File: BF095257.D

Acq: 19 May 2017 10:29

Instrument :

BNA\_F

ClientSampleId :

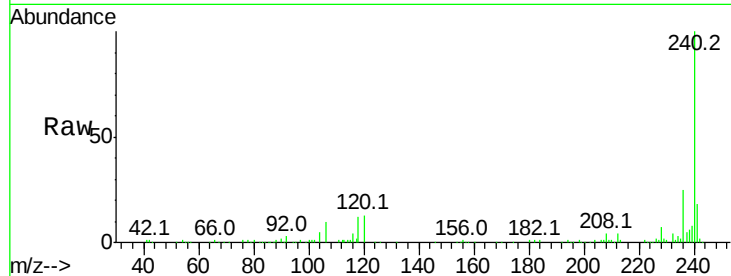
Tot Ion:240 Resp: 193558

Ion Ratio Lower Upper

240 100

120 13.4 5.8 8.8#

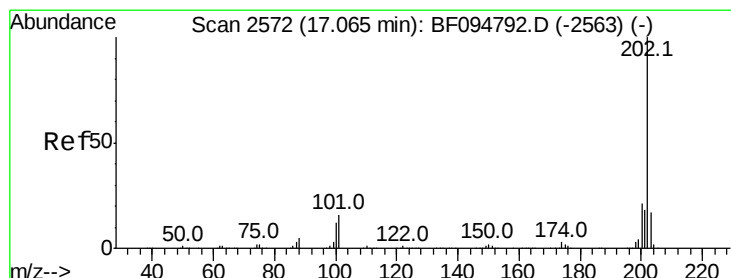
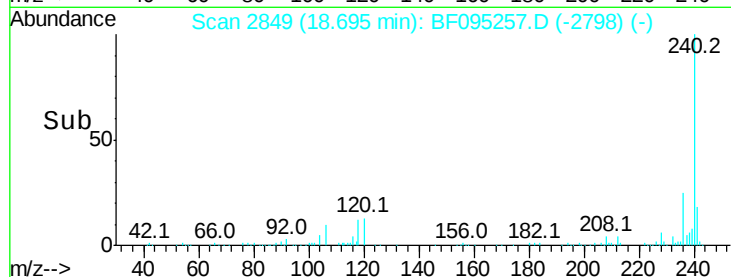
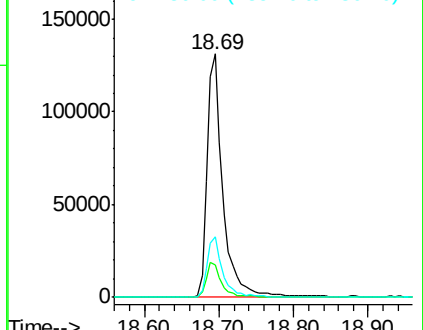
236 24.8 20.5 30.7



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

Pyrene

Concen: 8.36 ng

RT: 17.11 min Scan# 2579

Delta R.T. 0.00 min

Lab File: BF095257.D

Acq: 19 May 2017 10:29

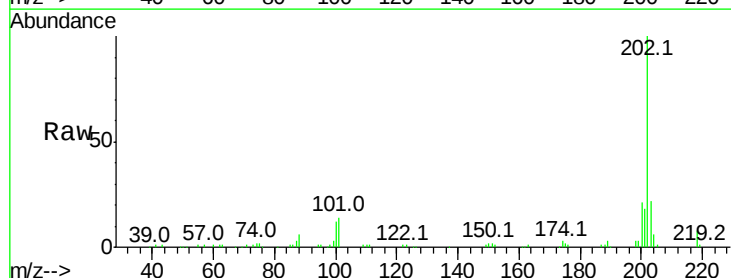
Tgt Ion:202 Resp: 121014

Ion Ratio Lower Upper

202 100

200 20.6 17.6 26.4

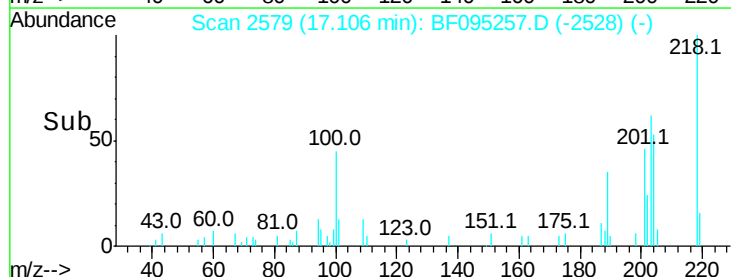
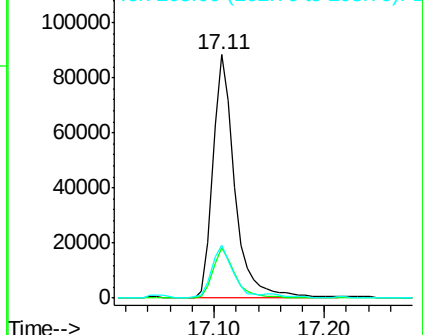
203 21.7 14.4 21.6#

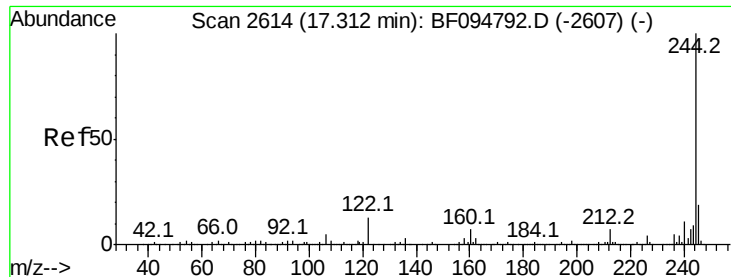


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 69.45 ng

RT: 17.34 min Scan# 2618

Delta R.T. -0.01 min

Lab File: BF095257.D

Acq: 19 May 2017 10:29

Instrument :

BNA\_F

ClientSampleId :

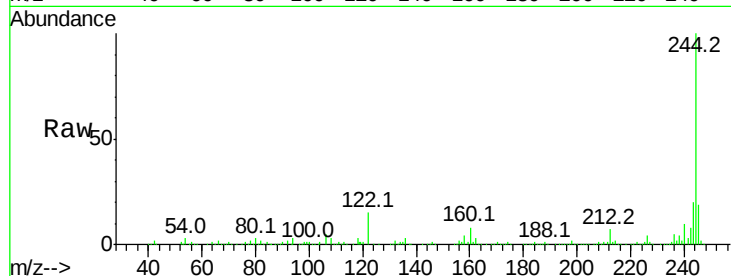
Tot Ion:244 Resp: 610324

Ion Ratio Lower Upper

244 100

212 7.0 6.0 9.0

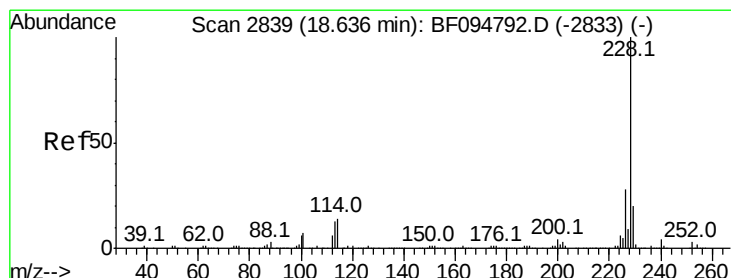
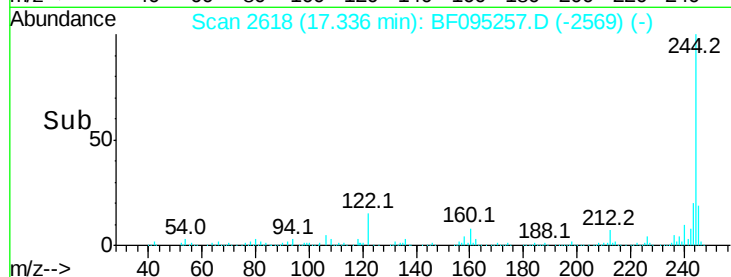
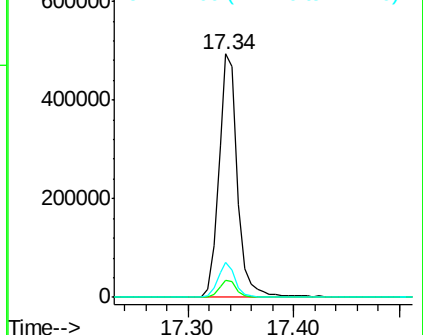
122 14.6 10.3 15.5



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: 3.11 ng

RT: 18.72 min Scan# 2854

Delta R.T. 0.04 min

Lab File: BF095257.D

Acq: 19 May 2017 10:29

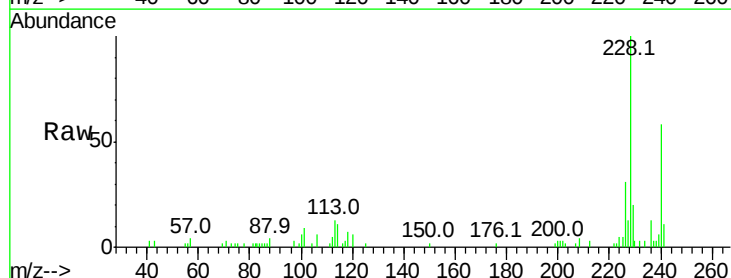
Tgt Ion:228 Resp: 35000

Ion Ratio Lower Upper

228 100

226 31.4 22.6 33.8

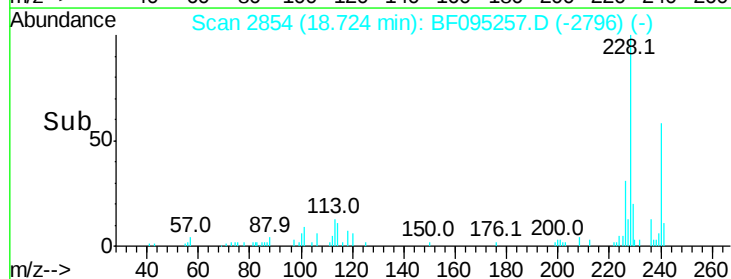
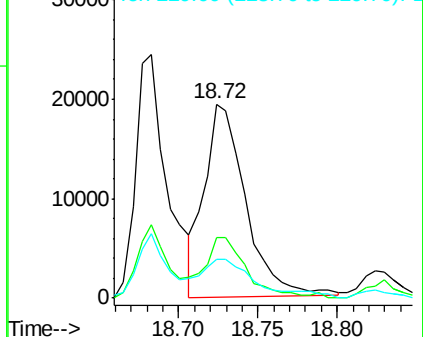
229 20.0 16.3 24.5

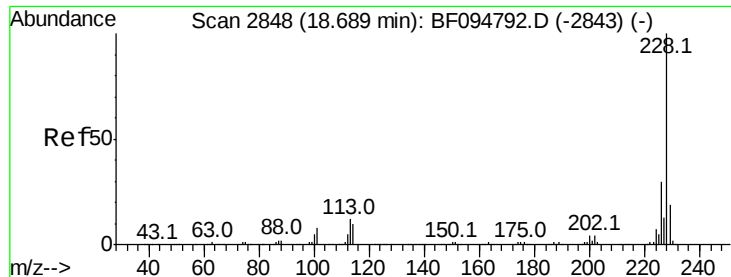


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 3.21 ng

RT: 18.72 min Scan# 2854

Delta R.T. -0.01 min

Lab File: BF095257.D

Acq: 19 May 2017 10:29

Instrument :

BNA\_F

ClientSampleId :

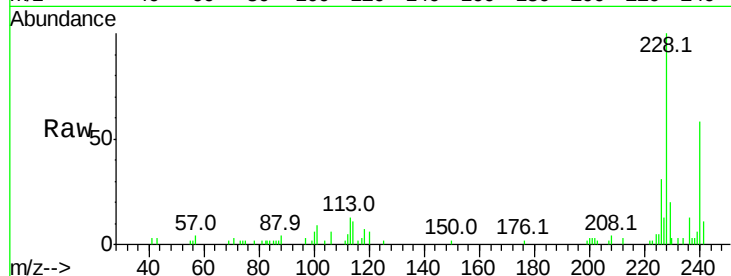
Tot Ion:228 Resp: 35000

Ion Ratio Lower Upper

228 100

226 31.4 24.9 37.3

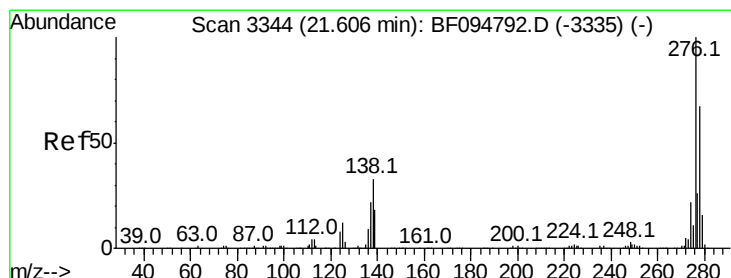
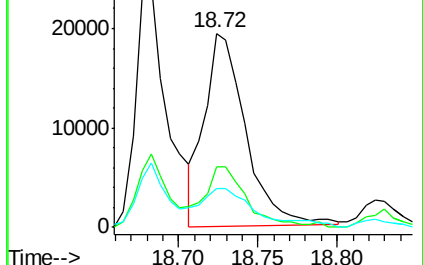
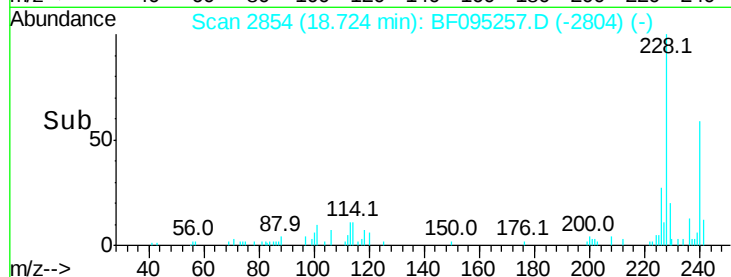
229 20.0 15.8 23.6



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: 2.11 ng

RT: 21.73 min Scan# 3365

Delta R.T. 0.03 min

Lab File: BF095257.D

Acq: 19 May 2017 10:29

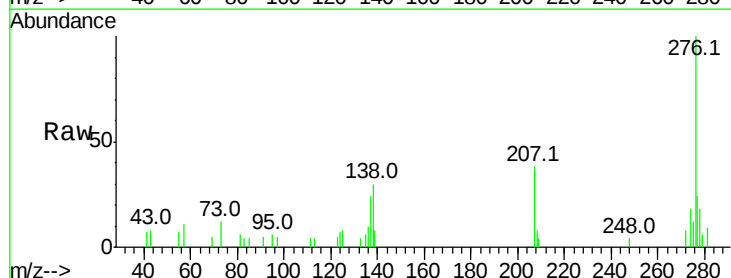
Tgt Ion:276 Resp: 18662

Ion Ratio Lower Upper

276 100

138 30.6 27.8 41.6

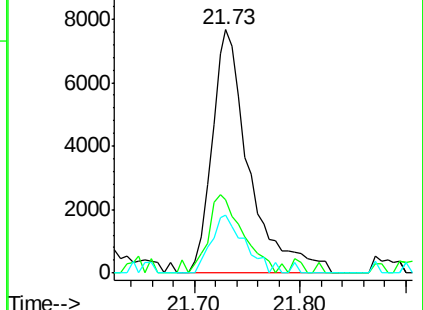
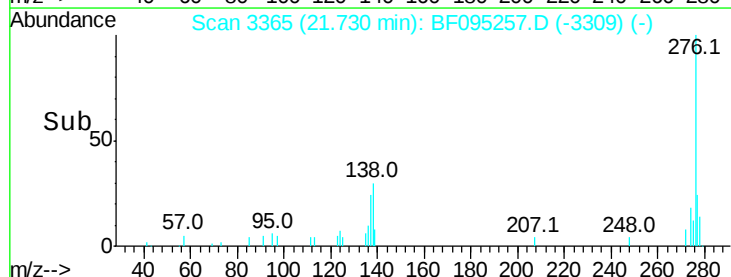
277 21.7 20.2 30.4

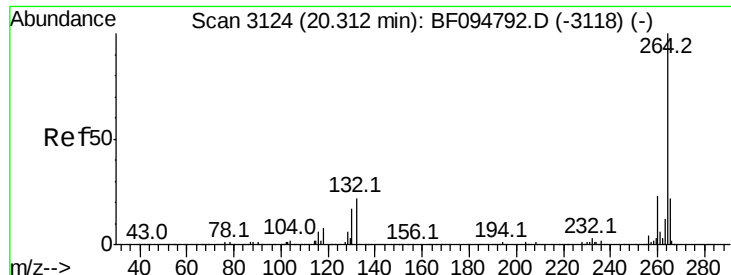


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

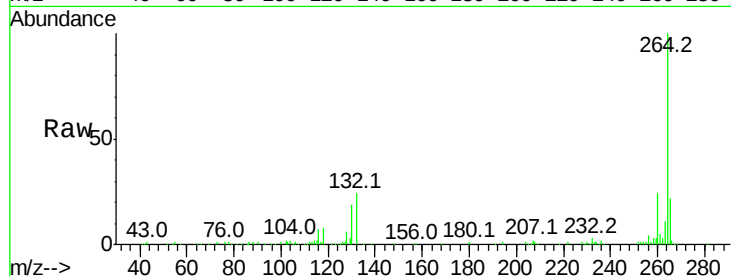




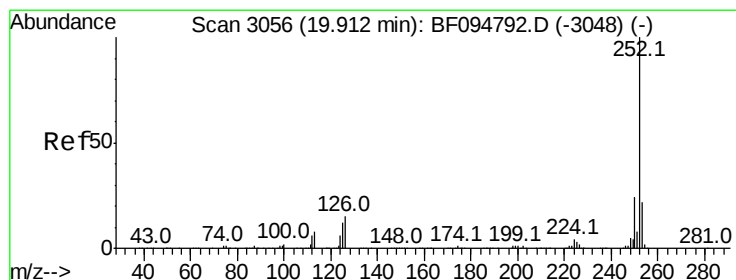
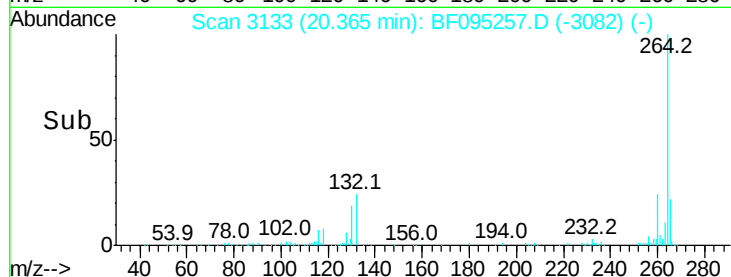
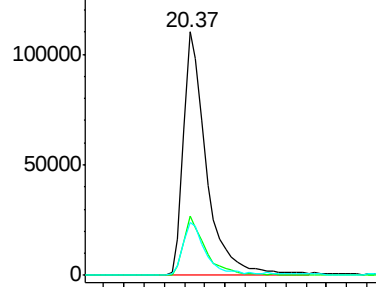
#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 20.37 min Scan# 3133  
Delta R.T. 0.00 min  
Lab File: BF095257.D  
Acq: 19 May 2017 10:29

Instrument :  
BNA\_F  
ClientSampled :

Tot Ion:264 Resp: 175369  
Ion Ratio Lower Upper  
264 100  
260 24.4 19.5 29.3  
265 21.7 17.2 25.8

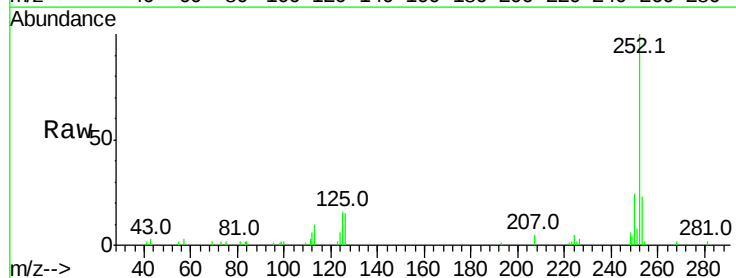


Abundance Ion 264.00 (263.70 to 264.70): E  
Ion 260.00 (259.70 to 260.70): E  
Ion 265.00 (264.70 to 265.70): E

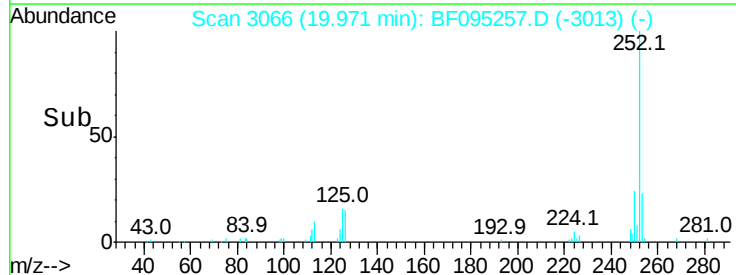
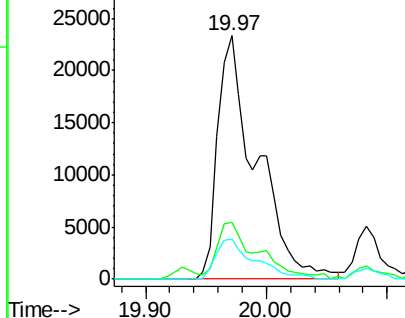


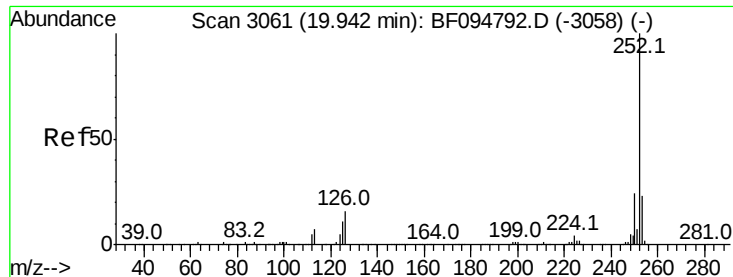
#87  
Benzo(b)fluoranthene  
Concen: 4.79 ng  
RT: 19.97 min Scan# 3066  
Delta R.T. 0.01 min  
Lab File: BF095257.D  
Acq: 19 May 2017 10:29

Tgt Ion:252 Resp: 51912  
Ion Ratio Lower Upper  
252 100  
253 23.2 18.1 27.1  
125 16.4 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

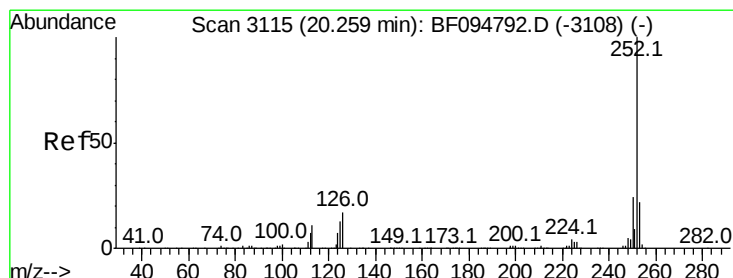
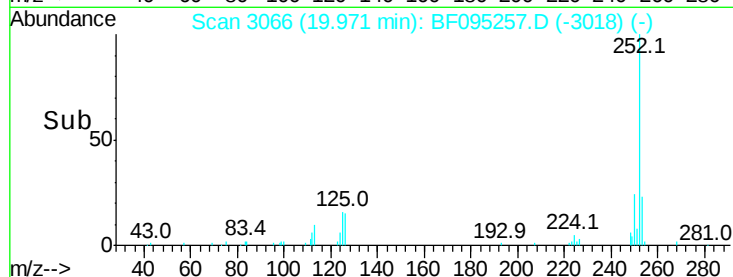
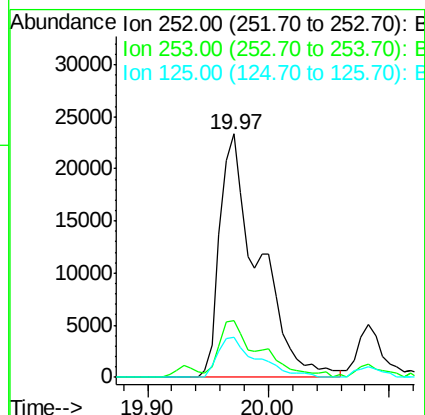
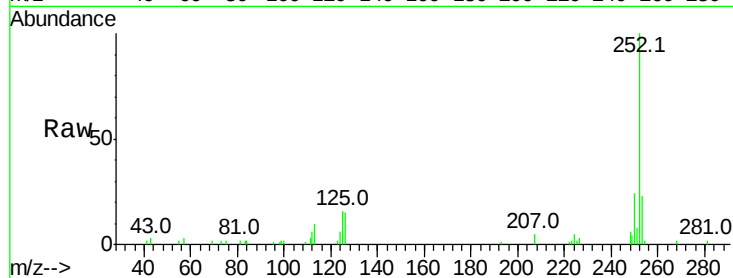




#88  
Benzo(k)fluoranthene  
Concen: 4.97 ng  
RT: 19.97 min Scan# 3066  
Delta R.T. -0.02 min  
Lab File: BF095257.D  
Acq: 19 May 2017 10:29

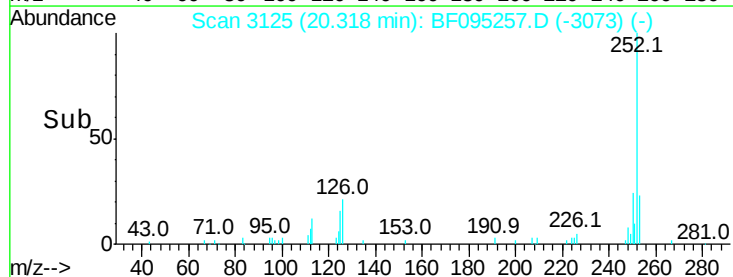
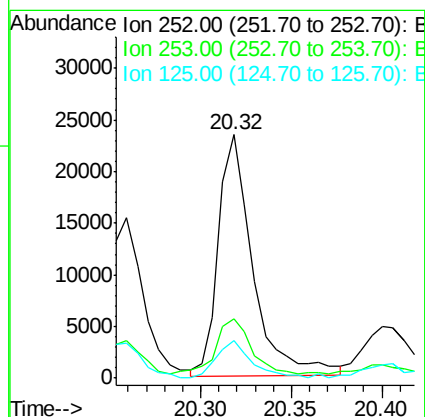
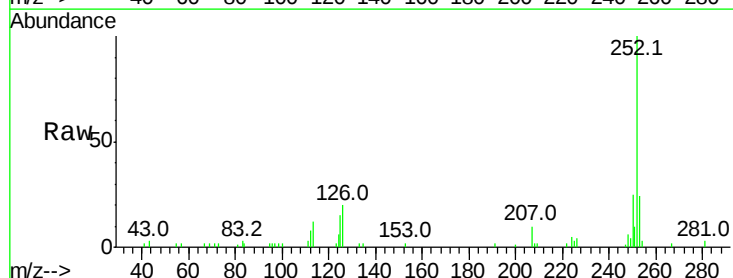
Instrument :  
BNA\_F  
ClientSampleId :

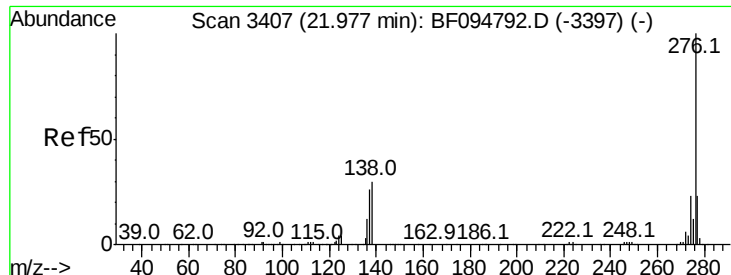
Tot Ion:252 Resp: 51912  
Ion Ratio Lower Upper  
252 100  
253 23.2 18.4 27.6  
125 16.4 13.1 19.7



#89  
Benzo(a)pyrene  
Concen: 3.13 ng  
RT: 20.32 min Scan# 3125  
Delta R.T. 0.01 min  
Lab File: BF095257.D  
Acq: 19 May 2017 10:29

Tgt Ion:252 Resp: 31332  
Ion Ratio Lower Upper  
252 100  
253 24.5 17.5 26.3  
125 15.3 11.0 16.4





#91

Benzo(a,h,i)perylene

Concen: 2.36 ng

RT: 22.12 min Scan# 3431

Delta R.T. 0.04 min

Lab File: BF095257.D

Acq: 19 May 2017 10:29

Instrument :

BNA\_F

ClientSampleId :

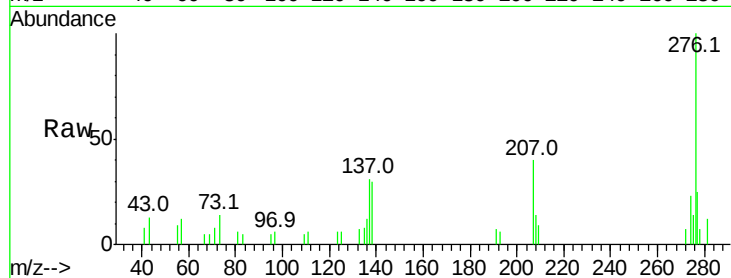
Tot Ion:276 Resp: 19102

Ion Ratio Lower Upper

276 100

277 25.4 18.6 28.0

138 30.1 25.4 38.0



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

