

Data Path : Z:\HPCHEM1\BNA F\DATA\BF053117\  
 Data File : BF095580.D  
 Acq On : 31 May 2017 23:53  
 Operator : SJ/MA  
 Sample : I3341-06  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Jun 01 01:38:00 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri May 26 16:50:16 2017  
 Response via : Initial Calibration

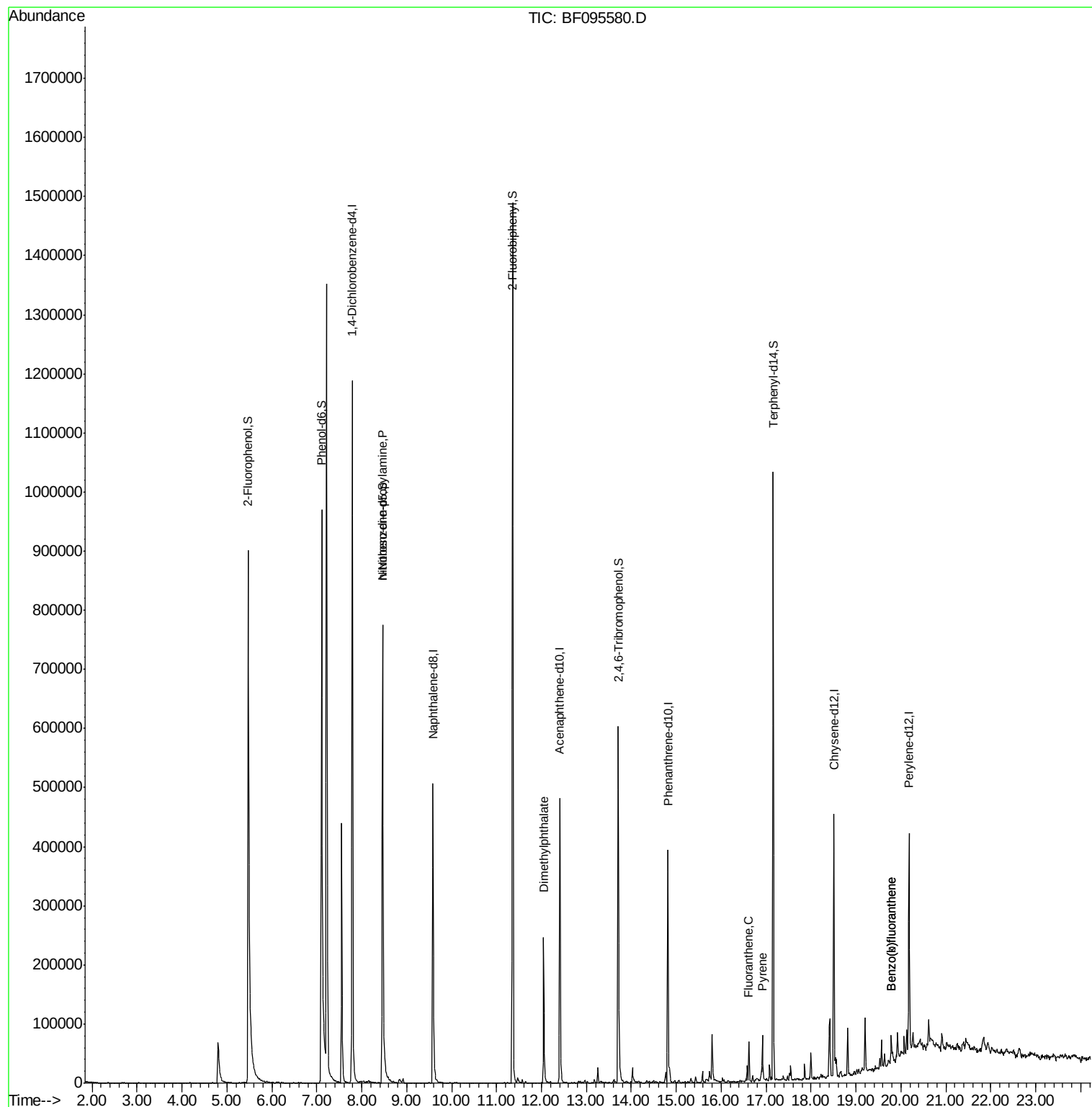
| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min)    |
|--------------------------------|-------|------|----------|-------|-------|-------------|
| 1) 1,4-Dichlorobenzene-d4      | 7.79  | 152  | 274127   | 20.00 | ng    | 0.05        |
| 21) Naphthalene-d8             | 9.58  | 136  | 375495   | 20.00 | ng    | -0.18       |
| 38) Acenaphthene-d10           | 12.41 | 164  | 138733   | 20.00 | ng    | -0.19       |
| 63) Phenanthrene-d10           | 14.81 | 188  | 214161   | 20.00 | ng    | -0.19       |
| 75) Chrysene-d12               | 18.51 | 240  | 176023   | 20.00 | ng    | -0.17       |
| 86) Perylene-d12               | 20.18 | 264  | 157927   | 20.00 | ng    | -0.18       |
| System Monitoring Compounds    |       |      |          |       |       |             |
| 5) 2-Fluorophenol              | 5.47  | 112  | 583098   | 35.46 | ng    | -0.24       |
| 7) Phenol-d6                   | 7.11  | 99   | 695317   | 35.24 | ng    | -0.19       |
| 23) Nitrobenzene-d5            | 8.47  | 82   | 427527   | 71.80 | ng    | -0.19       |
| 41) 2,4,6-Tribromophenol       | 13.71 | 330  | 106438   | 93.68 | ng    | -0.19       |
| 44) 2-Fluorobiphenyl           | 11.36 | 172  | 642395   | 66.65 | ng    | -0.18       |
| 78) Terphenyl-d14              | 17.15 | 244  | 390926   | 48.92 | ng    | -0.17       |
| Target Compounds               |       |      |          |       |       |             |
| 19) n-Nitroso-di-n-propylamine | 8.47  | 70   | 53214    | 3.99  | ng    | Qvalue # 76 |
| 49) Dimethylphthalate          | 12.05 | 163  | 154234   | 13.54 | ng    | 100         |
| 74) Fluoranthene               | 16.61 | 202  | 38619    | 3.06  | ng    | 98          |
| 77) Pyrene                     | 16.92 | 202  | 35535    | 2.70  | ng    | 96          |
| 87) Benzo(b)fluoranthene       | 19.78 | 252  | 31263    | 3.20  | ng    | # 97        |
| 88) Benzo(k)fluoranthene       | 19.78 | 252  | 31263    | 3.32  | ng    | 99          |

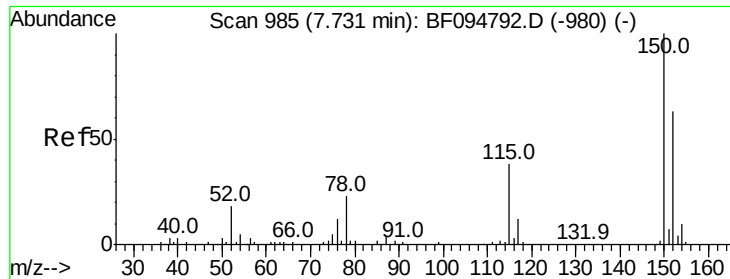
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 7.79 min Scan# 1012

Delta R.T. 0.05 min

Lab File: BF095580.D

Acq: 31 May 2017 23:53

Instrument :

BNA\_F

ClientSampleId :

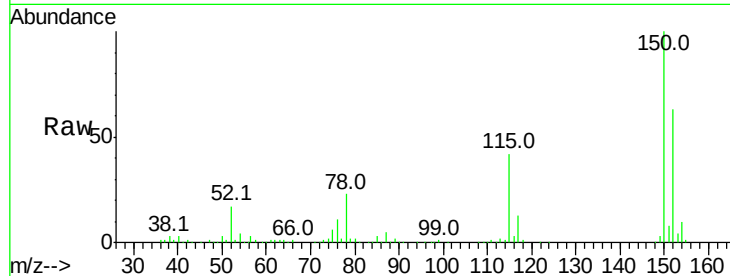
Tot Ion:152 Resp: 274127

Ion Ratio Lower Upper

152 100

150 159.8 126.2 189.2

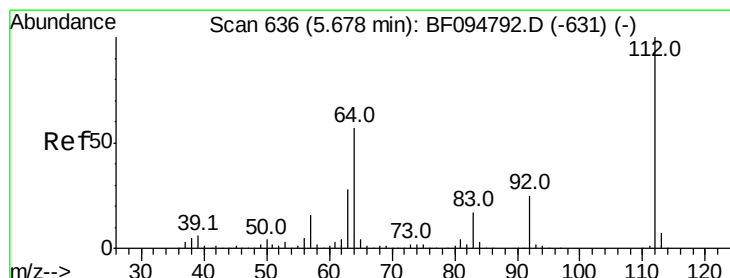
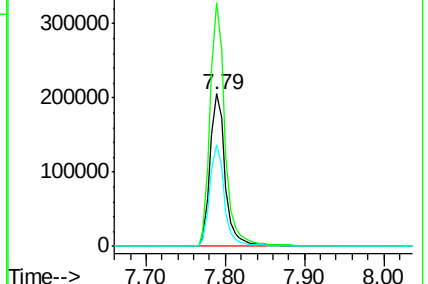
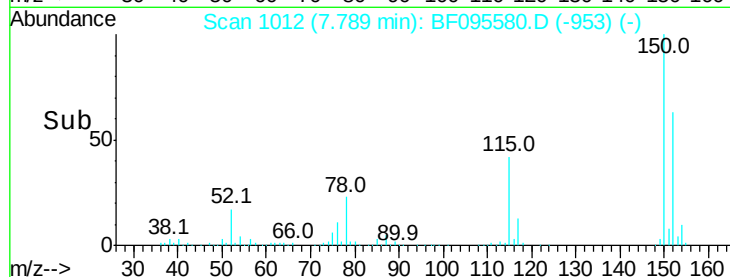
115 66.4 52.2 78.2



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: 35.46 ng

RT: 5.47 min Scan# 618

Delta R.T. -0.24 min

Lab File: BF095580.D

Acq: 31 May 2017 23:53

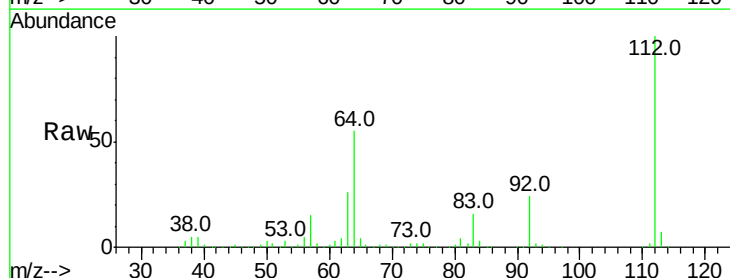
Tgt Ion:112 Resp: 583098

Ion Ratio Lower Upper

112 100

64 54.8 46.0 69.0

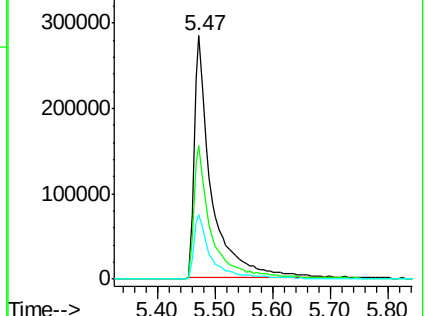
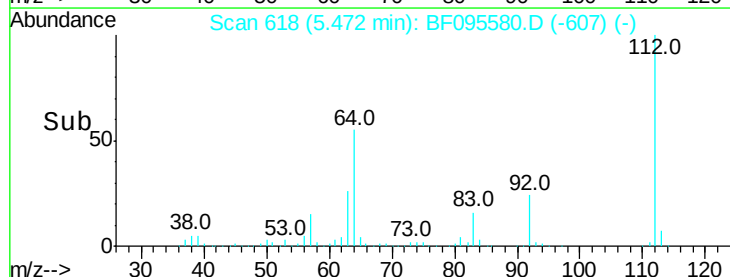
63 26.4 23.4 35.0

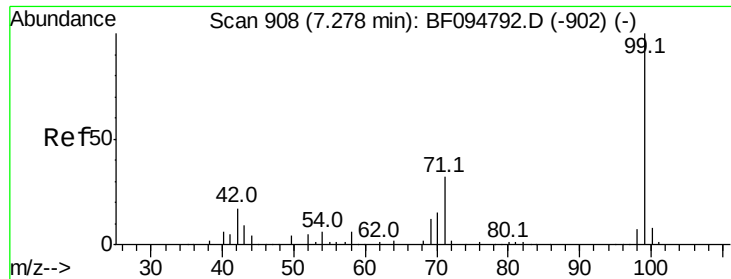


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 35.24 ng

RT: 7.11 min Scan# 896

Delta R.T. -0.19 min

Lab File: BF095580.D

Acq: 31 May 2017 23:53

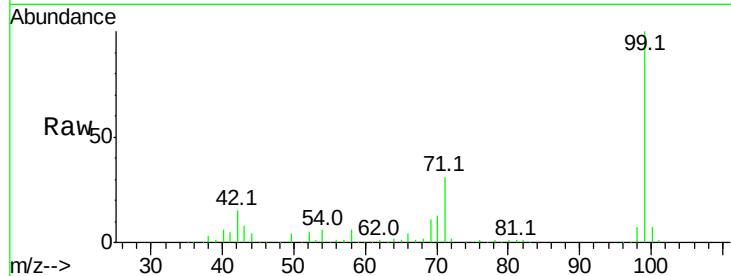
Instrument :

BNA\_F

ClientSampled :

Tot Ion: 99 Resp: 695317

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 15.4  | 13.5  | 20.3  |
| 71  | 30.9  | 24.5  | 36.7  |

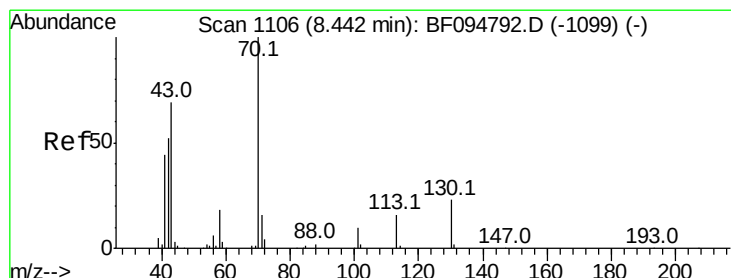
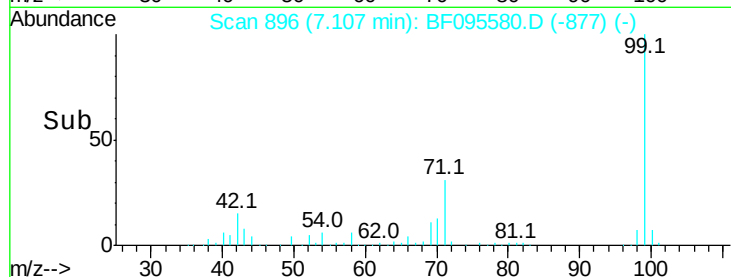
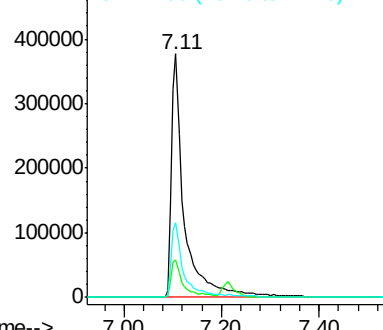


Abundance

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: 3.99 ng

RT: 8.47 min Scan# 1127

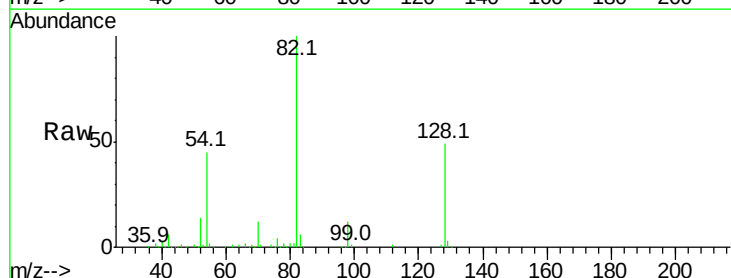
Delta R.T. 0.01 min

Lab File: BF095580.D

Acq: 31 May 2017 23:53

Tgt Ion: 70 Resp: 53214

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 70  | 100   |       |       |
| 42  | 44.8  | 47.2  | 70.8# |
| 101 | 0.0   | 7.2   | 10.8# |
| 130 | 2.6   | 15.9  | 23.9# |



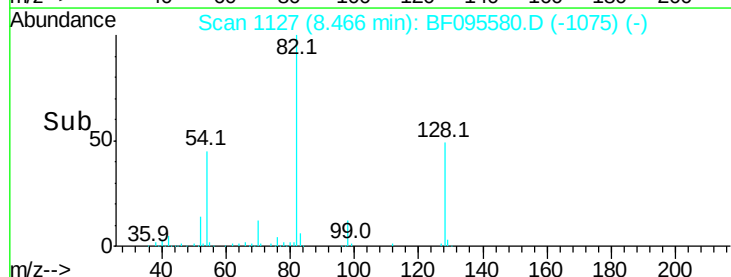
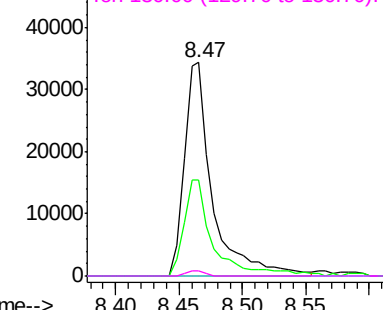
Abundance

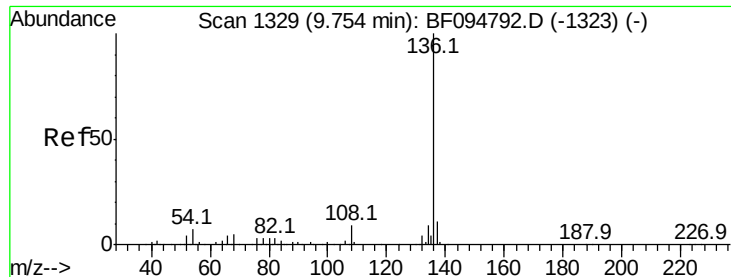
Ion 70.00 (69.70 to 70.70): BF0

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

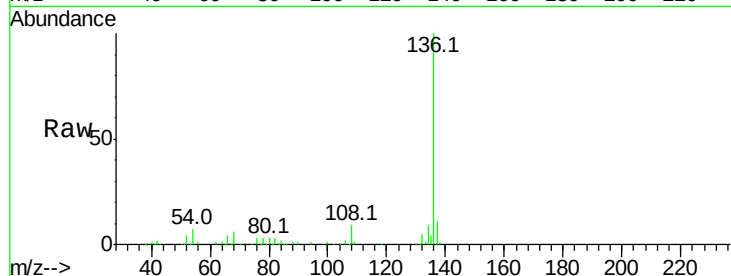




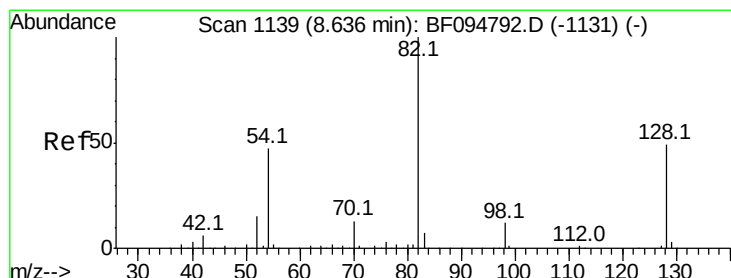
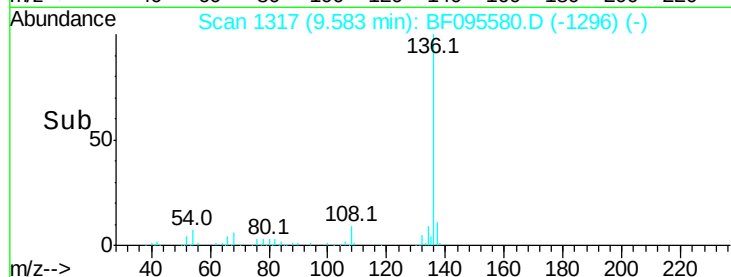
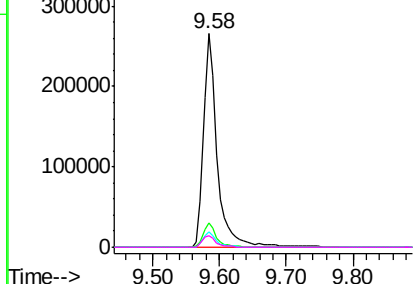
#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 9.58 min Scan# 1317  
Delta R.T. -0.18 min  
Lab File: BF095580.D  
Acq: 31 May 2017 23:53

Instrument :  
BNA\_F  
ClientSampleId :

|             |       |        |
|-------------|-------|--------|
| Tot Ion:136 | Resp: | 375495 |
| Ion Ratio   | Lower | Upper  |
| 136 100     |       |        |
| 137 11.2    | 8.5   | 12.7   |
| 54 6.9      | 4.9   | 7.3    |
| 68 5.6      | 4.1   | 6.1    |

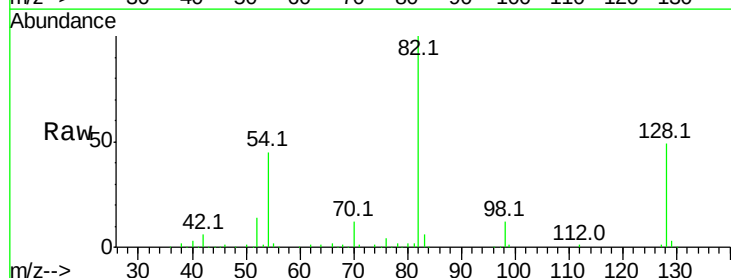


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF0  
Ion 68.00 (67.70 to 68.70): BF0

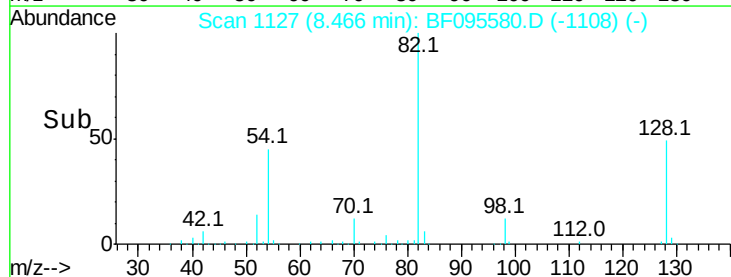
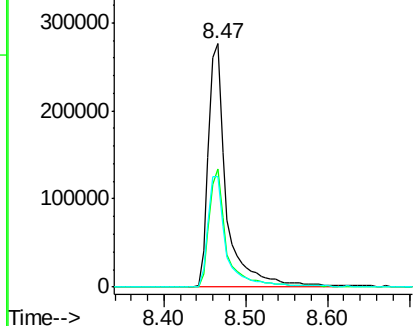


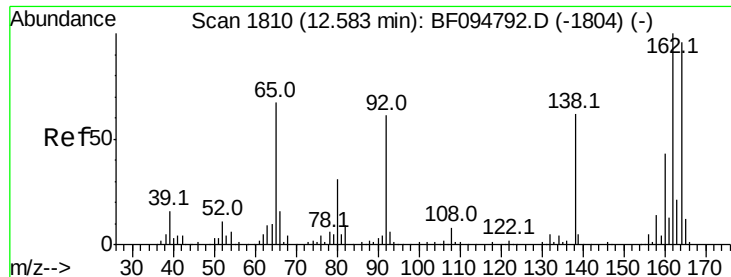
#23  
Nitrobenzene-d5  
Concen: 71.80 ng  
RT: 8.47 min Scan# 1127  
Delta R.T. -0.19 min  
Lab File: BF095580.D  
Acq: 31 May 2017 23:53

|             |       |        |
|-------------|-------|--------|
| Tgt Ion: 82 | Resp: | 427527 |
| Ion Ratio   | Lower | Upper  |
| 82 100      |       |        |
| 128 48.6    | 34.0  | 51.0   |
| 54 45.5     | 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: 12.41 min Scan# 1797

Delta R.T. -0.19 min

Lab File: BF095580.D

Acq: 31 May 2017 23:53

Instrument :

BNA\_F

ClientSampleId :

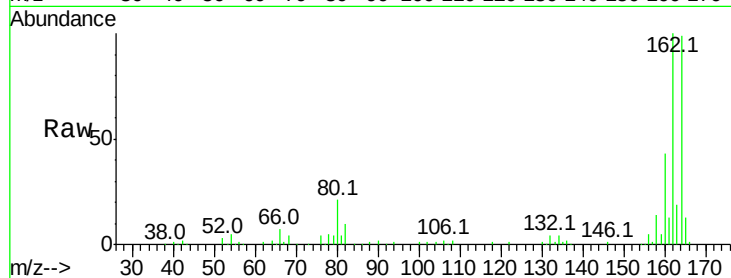
Tot Ion:164 Resp: 138733

Ion Ratio Lower Upper

164 100

162 101.1 82.6 123.8

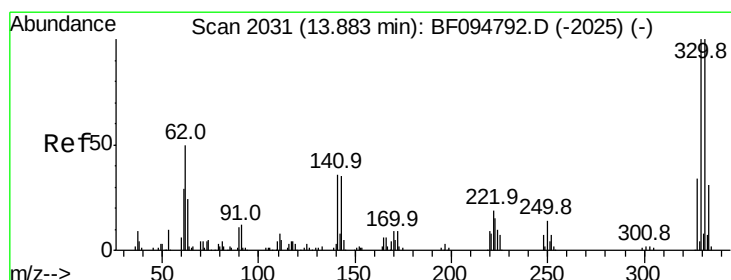
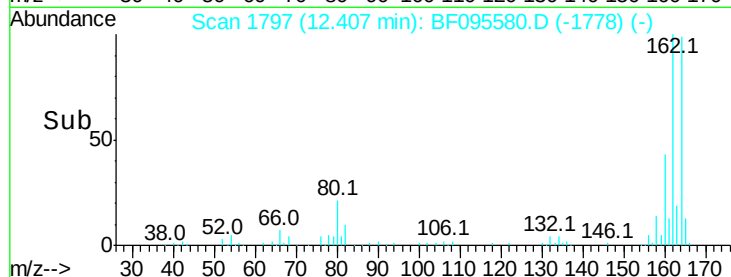
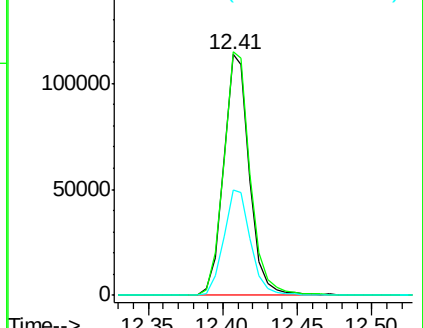
160 43.9 36.2 54.2



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: 93.68 ng

RT: 13.71 min Scan# 2018

Delta R.T. -0.19 min

Lab File: BF095580.D

Acq: 31 May 2017 23:53

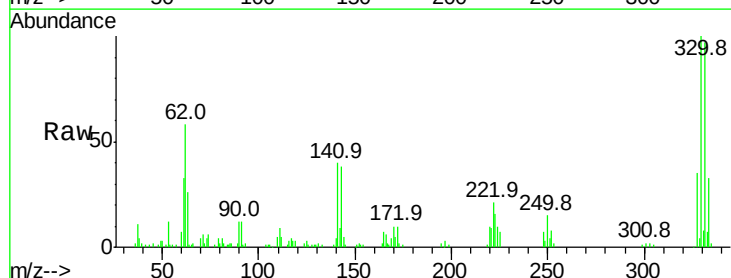
Tgt Ion:330 Resp: 106438

Ion Ratio Lower Upper

330 100

332 97.2 76.6 115.0

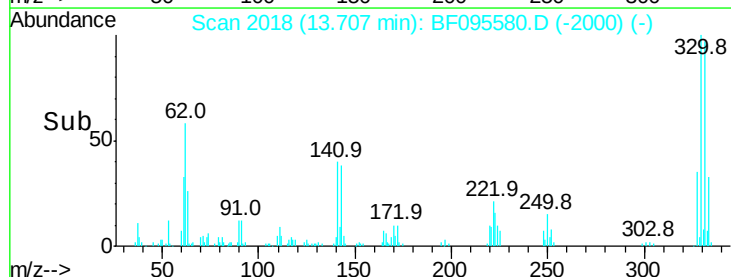
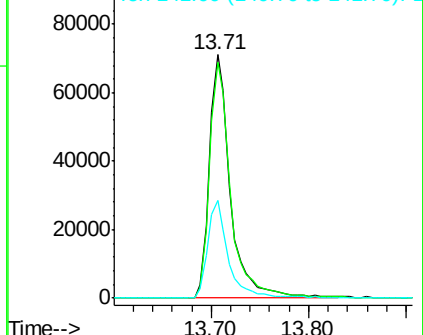
141 39.1 31.4 47.2

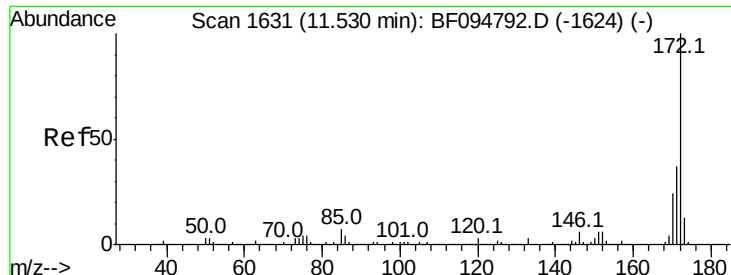


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

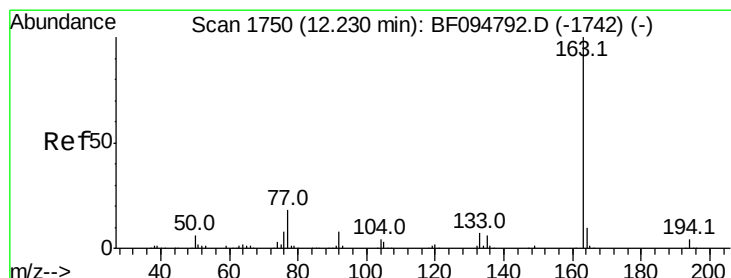
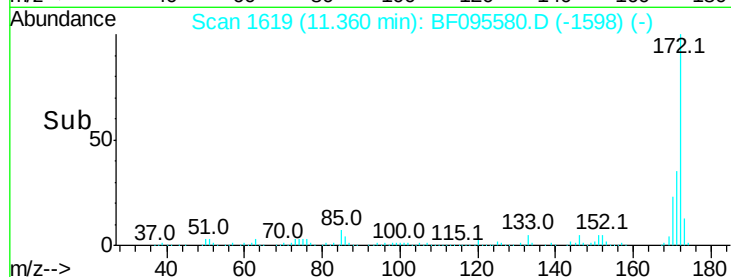
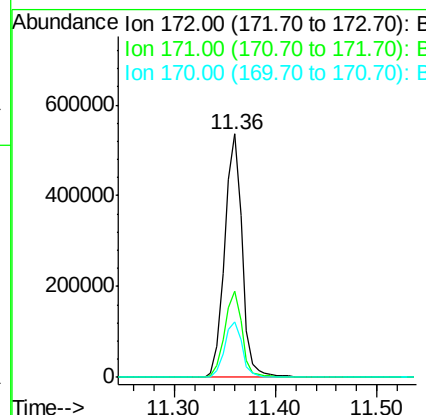
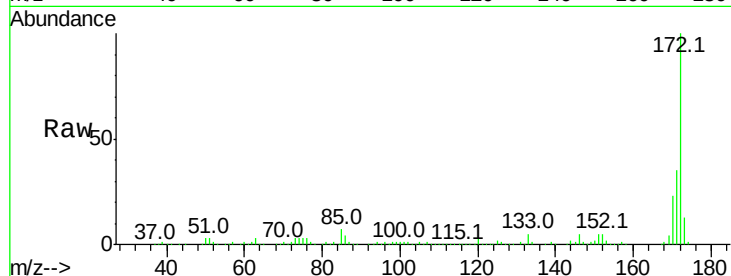




#44  
 2-Fluorobiphenyl  
 Concen: 66.65 ng  
 RT: 11.36 min Scan# 1619  
 Delta R.T. -0.18 min  
 Lab File: BF095580.D  
 Acq: 31 May 2017 23:53

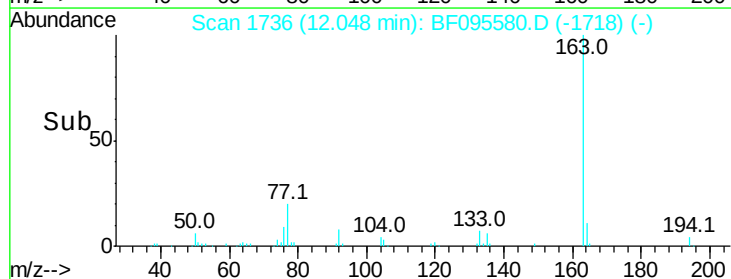
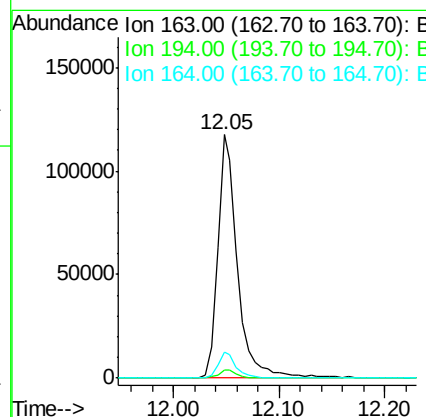
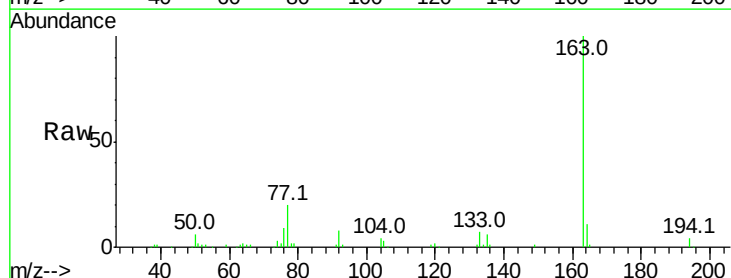
Instrument :  
 BNA\_F  
 ClientSampleId :

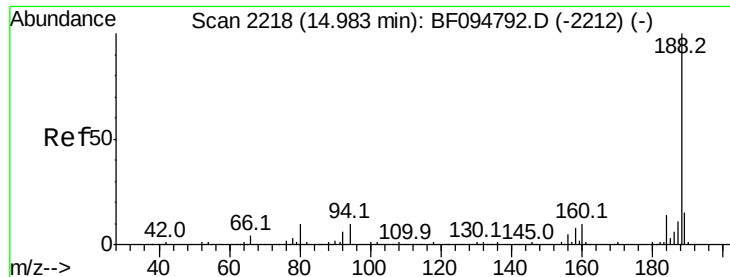
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.3  | 29.6  | 44.4  |
| 170     | 22.9  | 19.8  | 29.8  |



#49  
 Dimethylphthalate  
 Concen: 13.54 ng  
 RT: 12.05 min Scan# 1736  
 Delta R.T. -0.19 min  
 Lab File: BF095580.D  
 Acq: 31 May 2017 23:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 3.6   | 2.6   | 4.0   |
| 164     | 10.6  | 8.4   | 12.6  |

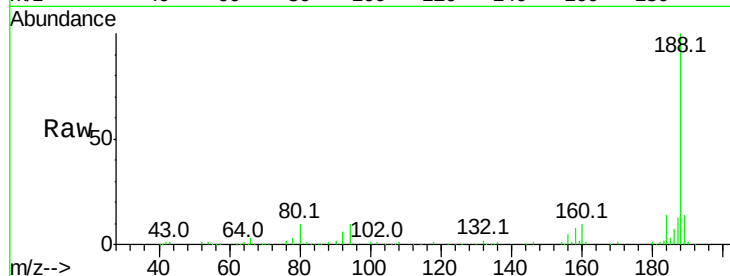




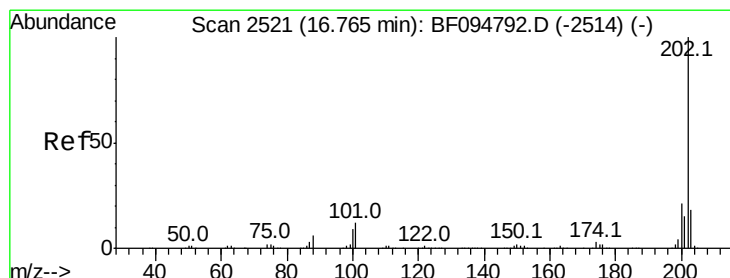
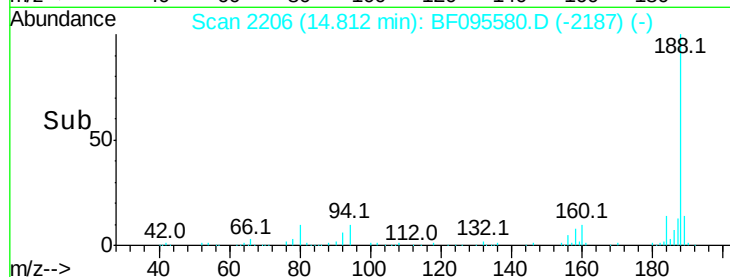
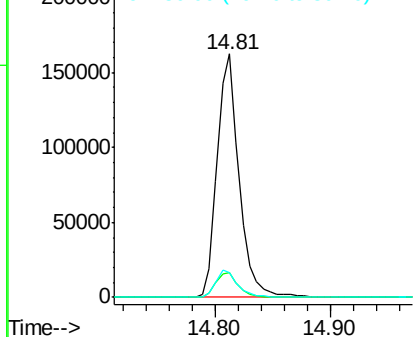
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 14.81 min Scan# 2206  
Delta R.T. -0.19 min  
Lab File: BF095580.D  
Acq: 31 May 2017 23:53

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:188 Resp: 214161  
Ion Ratio Lower Upper  
188 100  
94 10.2 9.4 14.2  
80 10.3 10.2 15.2

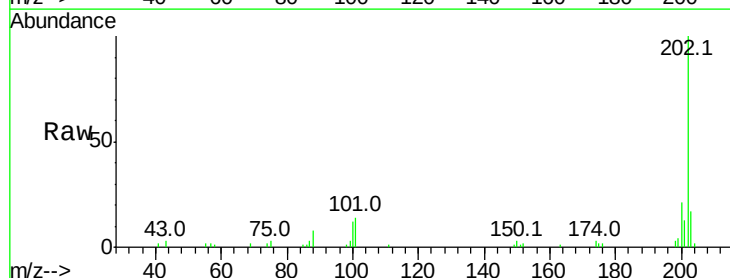


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF0  
Ion 80.00 (79.70 to 80.70): BF0

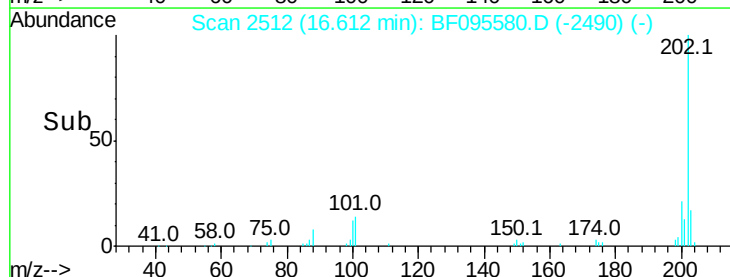
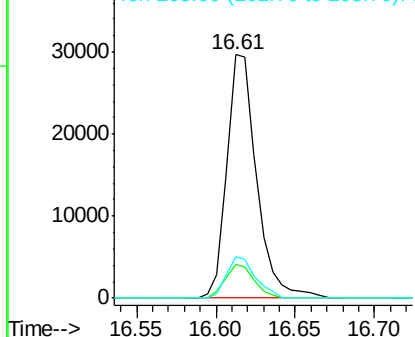


#74  
Fluoranthene  
Concen: 3.06 ng  
RT: 16.61 min Scan# 2512  
Delta R.T. -0.17 min  
Lab File: BF095580.D  
Acq: 31 May 2017 23:53

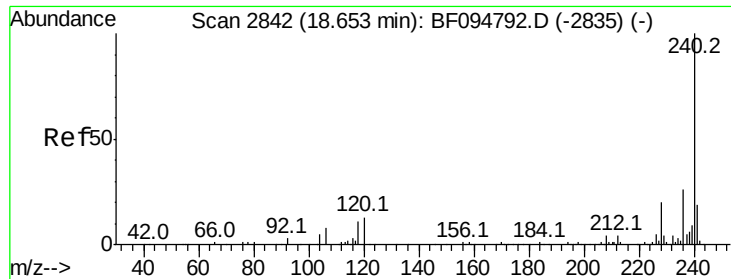
Tgt Ion:202 Resp: 38619  
Ion Ratio Lower Upper  
202 100  
101 13.9 0.0 33.2  
203 16.8 0.0 38.1



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: 18.51 min Scan# 2834

Delta R.T. -0.17 min

Lab File: BF095580.D

Acq: 31 May 2017 23:53

Instrument :

BNA\_F

ClientSampleId :

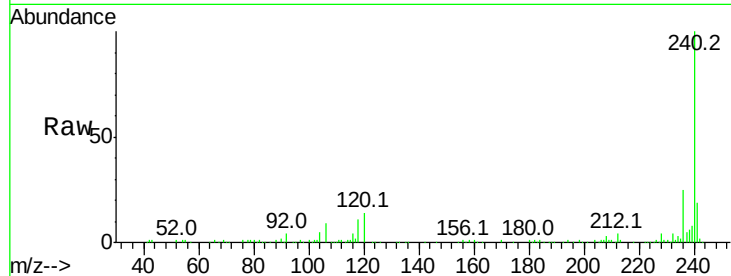
Tot Ion:240 Resp: 176023

Ion Ratio Lower Upper

240 100

120 14.3 5.8 8.8#

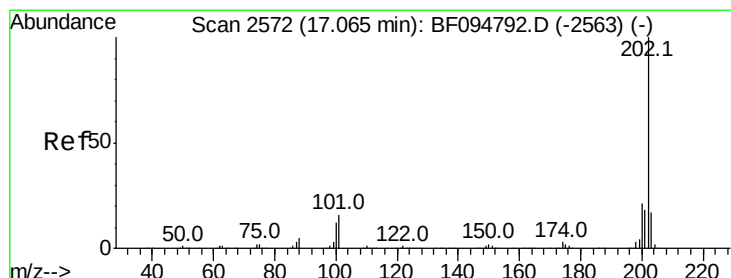
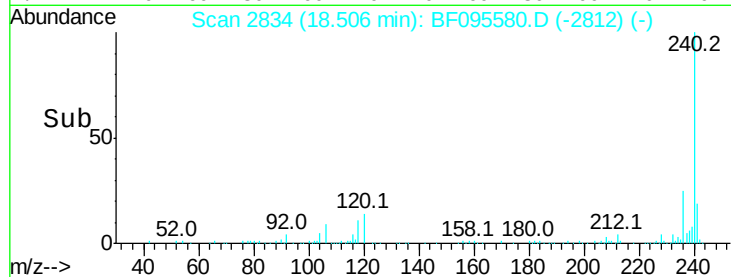
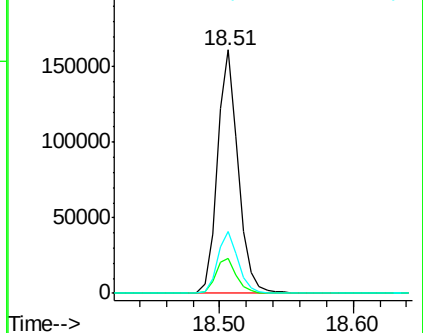
236 25.2 20.5 30.7



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: 2.70 ng

RT: 16.92 min Scan# 2564

Delta R.T. -0.17 min

Lab File: BF095580.D

Acq: 31 May 2017 23:53

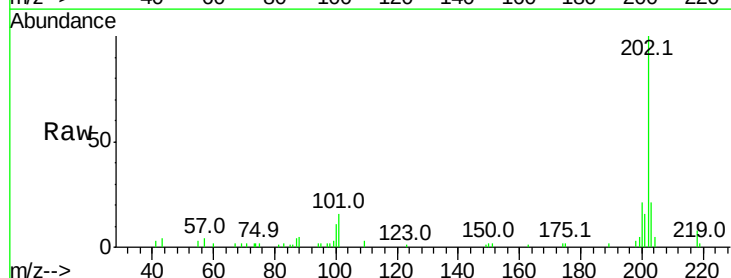
Tgt Ion:202 Resp: 35535

Ion Ratio Lower Upper

202 100

200 20.8 17.6 26.4

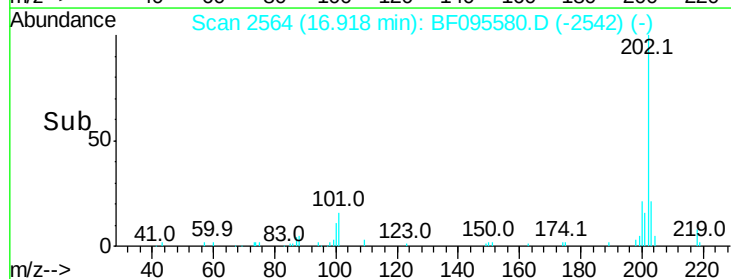
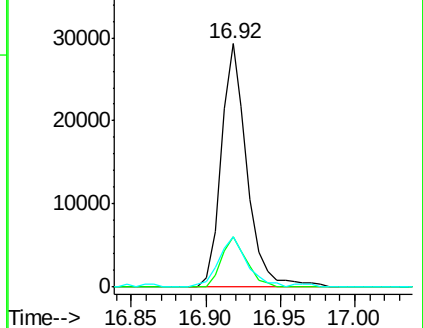
203 20.6 14.4 21.6

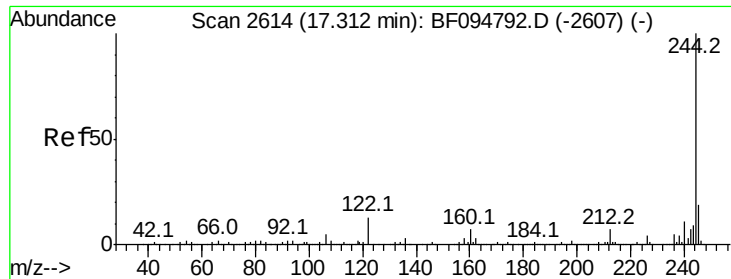


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

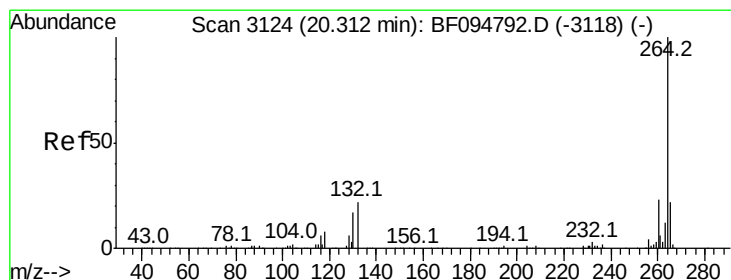
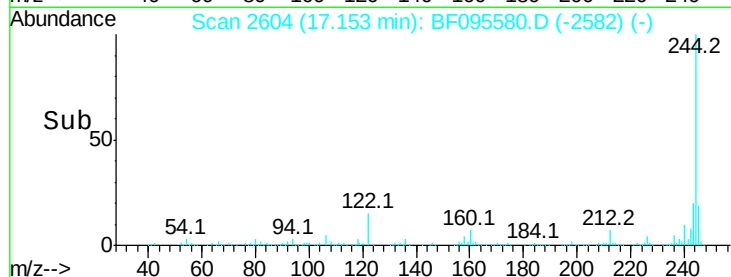
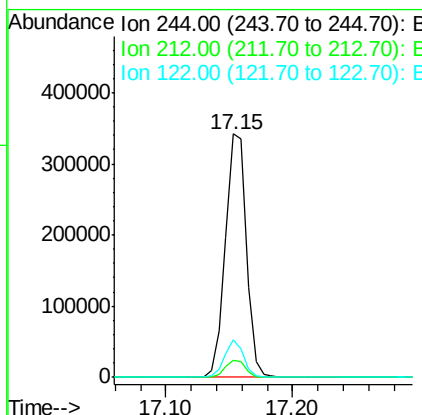
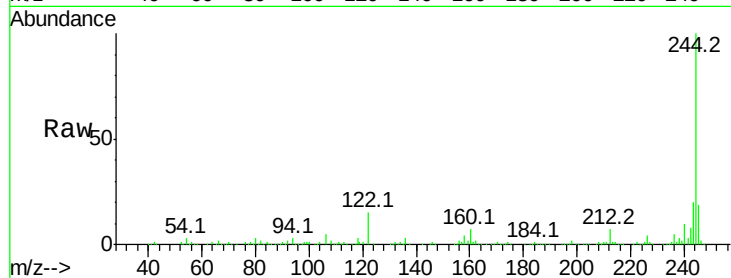




#78  
 Terphenyl-d14  
 Concen: 48.92 ng  
 RT: 17.15 min Scan# 2604  
 Delta R.T. -0.17 min  
 Lab File: BF095580.D  
 Acq: 31 May 2017 23:53

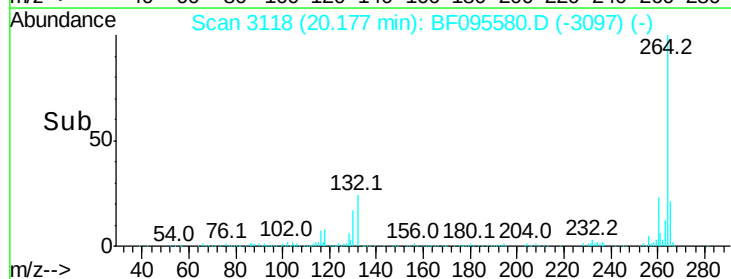
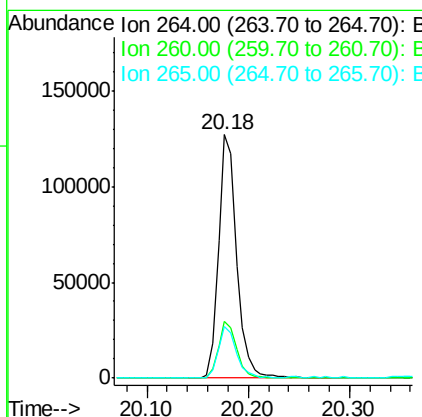
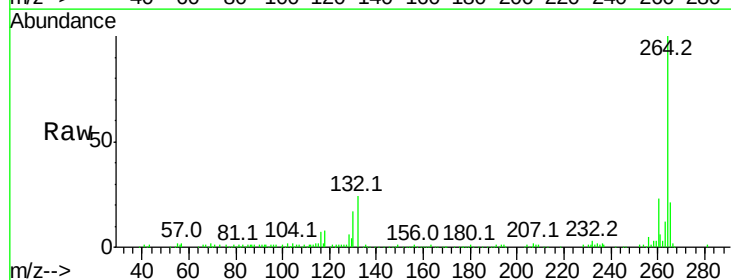
Instrument :  
 BNA\_F  
 ClientSampleId :

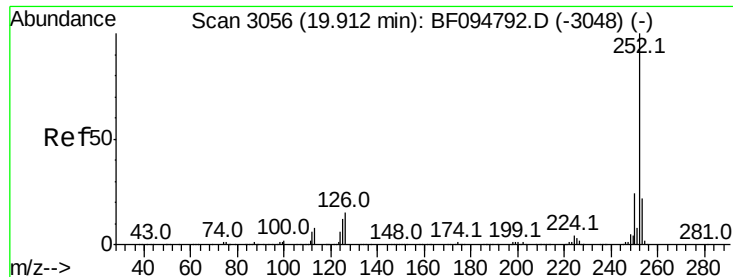
Tot Ion:244 Resp: 390926  
 Ion Ratio Lower Upper  
 244 100  
 212 7.2 6.0 9.0  
 122 15.3 10.3 15.5



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 20.18 min Scan# 3118  
 Delta R.T. -0.18 min  
 Lab File: BF095580.D  
 Acq: 31 May 2017 23:53

Tgt Ion:264 Resp: 157927  
 Ion Ratio Lower Upper  
 264 100  
 260 23.4 19.5 29.3  
 265 21.0 17.2 25.8

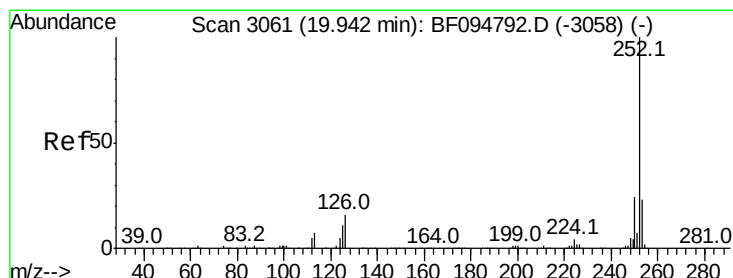
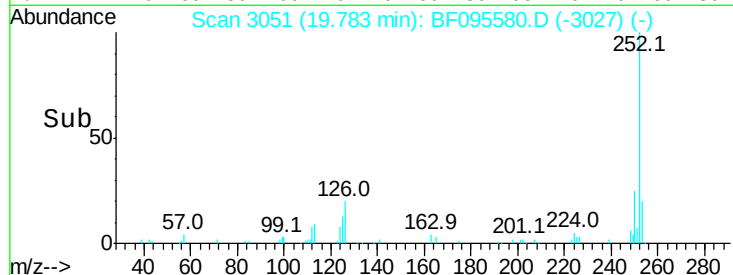
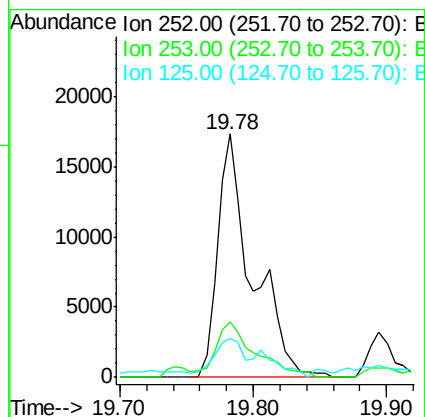
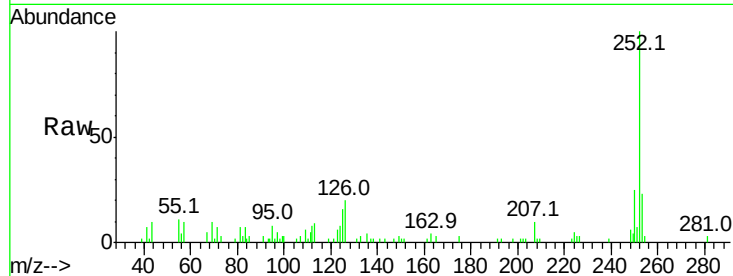




#87  
Benzo(b)fluoranthene  
Concen: 3.20 ng  
RT: 19.78 min Scan# 3051  
Delta R.T. -0.16 min  
Lab File: BF095580.D  
Acq: 31 May 2017 23:53

Instrument :  
BNA\_F  
ClientSampled :

Tot Ion:252 Resp: 31263  
Ion Ratio Lower Upper  
252 100  
253 22.6 18.1 27.1  
125 16.1 9.8 14.8#



#88  
Benzo(k)fluoranthene  
Concen: 3.32 ng  
RT: 19.78 min Scan# 3051  
Delta R.T. -0.19 min  
Lab File: BF095580.D  
Acq: 31 May 2017 23:53

Tgt Ion:252 Resp: 31263  
Ion Ratio Lower Upper  
252 100  
253 22.6 18.4 27.6  
125 16.1 13.1 19.7

