

Data Path : Z:\HPCHEM1\BNA F\DATA\BF062717\  
 Data File : BF096233.D  
 Acq On : 27 Jun 2017 23:07  
 Operator : SJ/MA  
 Sample : I3851-03RE 5X  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Jun 28 04:09:48 2017  
 Quant Method : Z:\HPCHEM1\BNA F\Methods\8270-BF062717.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jun 27 15:17:15 2017  
 Response via : Initial Calibration

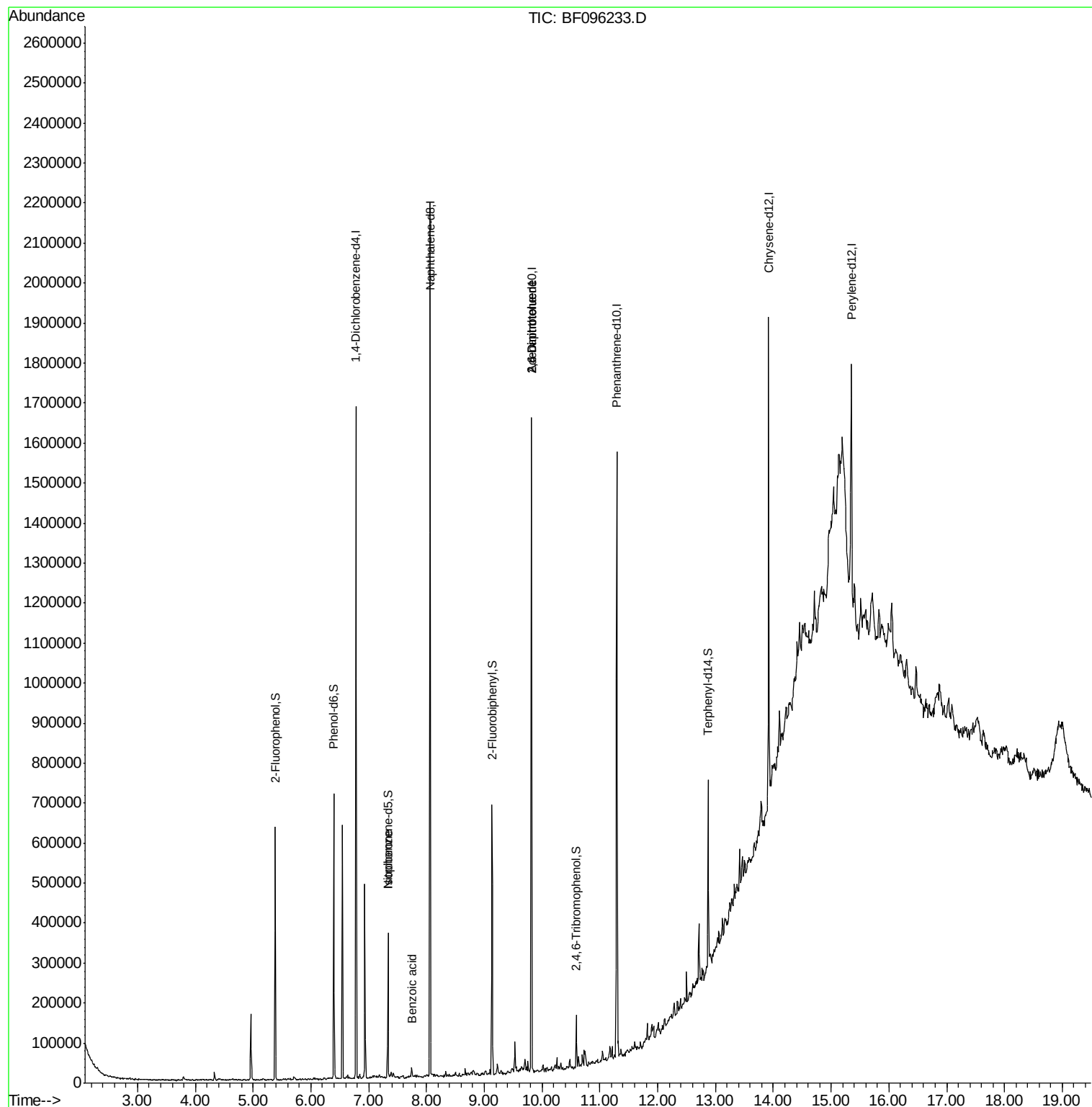
| Internal Standards          | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.78  | 152  | 219966   | 20.00     | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.06  | 136  | 867260   | 20.00     | ng    | 0.00     |
| 38) Acenaphthene-d10        | 9.82  | 164  | 308867   | 20.00     | ng    | 0.00     |
| 63) Phenanthrene-d10        | 11.29 | 188  | 468278   | 20.00     | ng    | 0.00     |
| 75) Chrysene-d12            | 13.92 | 240  | 390860   | 20.00     | ng    | 0.00     |
| 86) Perylene-d12            | 15.35 | 264  | 259817   | 20.00     | ng    | 0.01     |
| System Monitoring Compounds |       |      |          |           |       |          |
| 5) 2-Fluorophenol           | 5.38  | 112  | 150127   | 9.83      | ng    | 0.00     |
| 7) Phenol-d6                | 6.40  | 99   | 197646   | 10.69     | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.33  | 82   | 95344    | 7.61      | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol    | 10.59 | 330  | 11535    | 4.75      | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.13  | 172  | 179724   | 10.66     | ng    | -0.02    |
| 78) Terphenyl-d14           | 12.87 | 244  | 119267   | 7.61      | ng    | 0.00     |
| Target Compounds            |       |      |          |           |       |          |
| 9) Benzaldehyde             | 6.33  | 77   | 113      | Below Cal | #     | 50       |
| 25) Isophorone              | 7.33  | 82   | 95342    | 3.35      | ng    | # 67     |
| 32) Benzoic acid            | 7.75  | 122  | 5351     | 9.27      | ng    | 95       |
| 50) 2,6-Dinitrotoluene      | 9.81  | 165  | 39896    | 8.68      | ng    | # 33     |
| 56) 2,4-Dinitrotoluene      | 9.81  | 165  | 39896    | 6.88      | ng    | # 33     |
| 70) Phenanthrene            | 11.36 | 178  | 3832     | Below Cal |       | 96       |

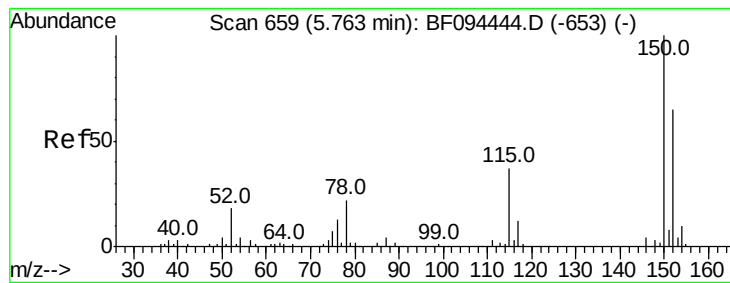
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.78 min Scan# 798

Delta R.T. -0.00 min

Lab File: BF096233.D

Acq: 27 Jun 2017 23:07

Instrument :

BNA\_F

ClientSampleId :

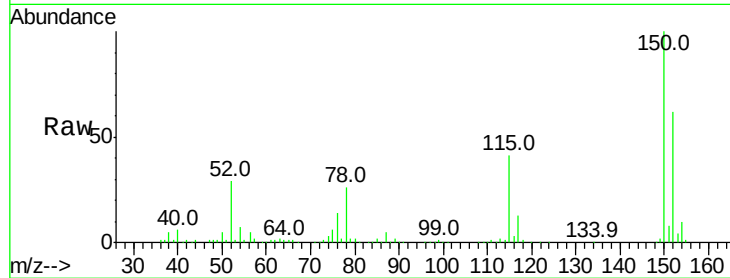
Tot Ion:152 Resp: 219966

Ion Ratio Lower Upper

152 100

150 161.5 126.2 189.2

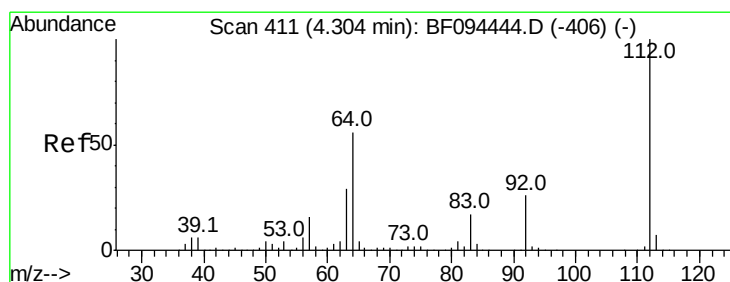
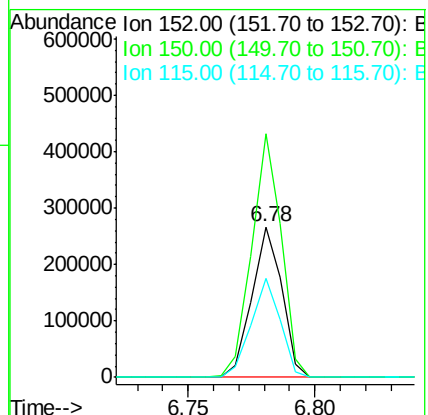
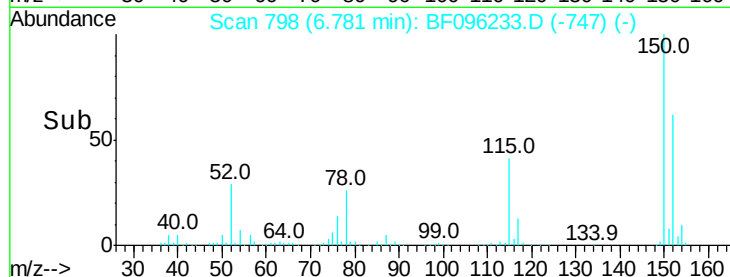
115 65.9 52.2 78.2



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: 9.83 ng

RT: 5.38 min Scan# 560

Delta R.T. 0.00 min

Lab File: BF096233.D

Acq: 27 Jun 2017 23:07

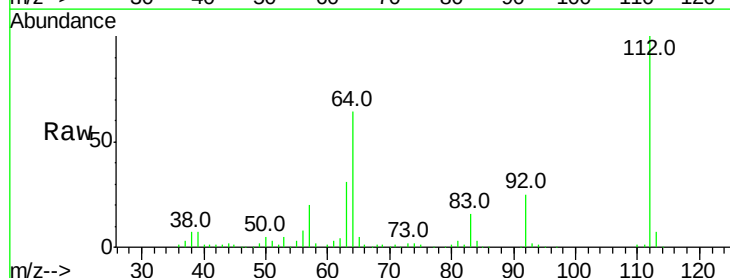
Tgt Ion:112 Resp: 150127

Ion Ratio Lower Upper

112 100

64 63.9 46.0 69.0

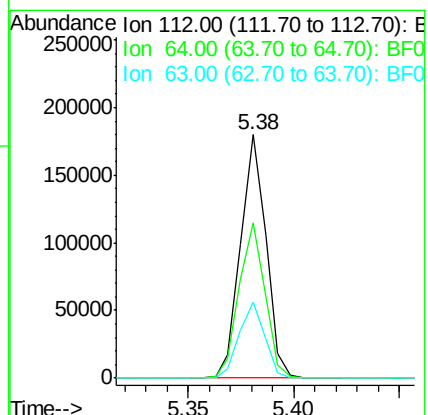
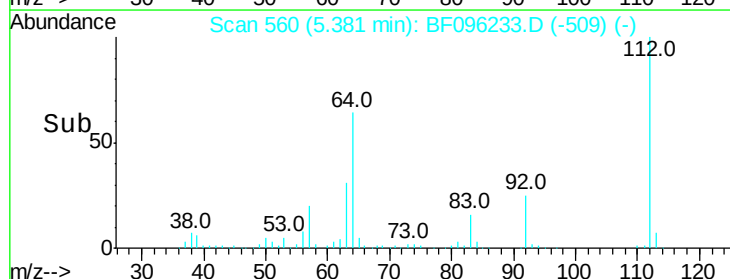
63 31.0 23.4 35.0

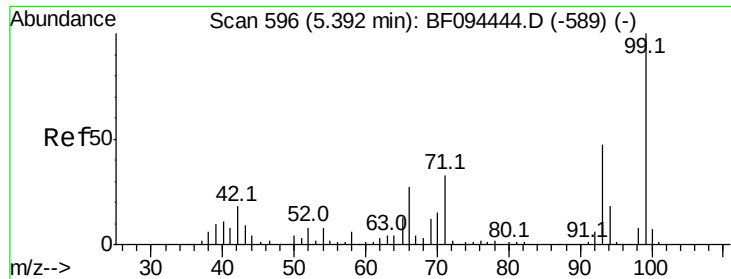


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 10.69 ng

RT: 6.40 min Scan# 733

Delta R.T. 0.01 min

Lab File: BF096233.D

Acq: 27 Jun 2017 23:07

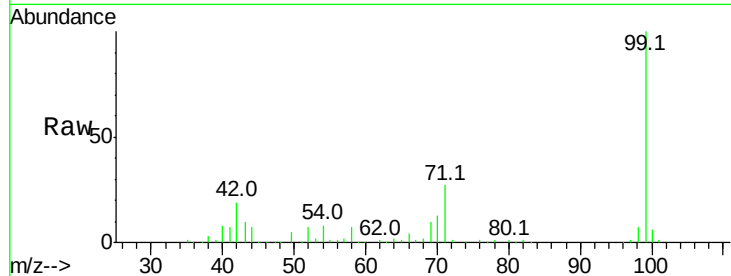
Instrument :

BNA\_F

ClientSampleId :

Tot Ion: 99 Resp: 197646

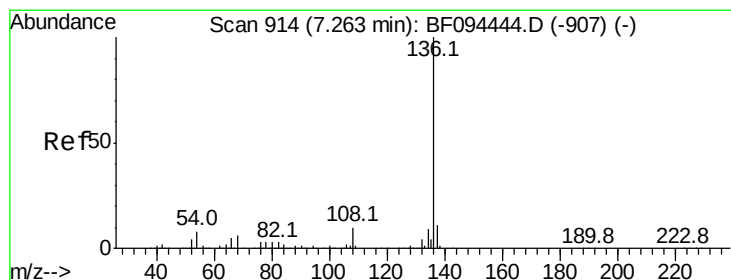
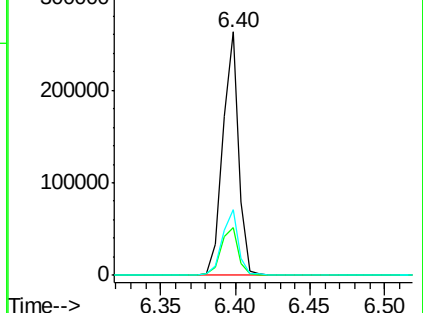
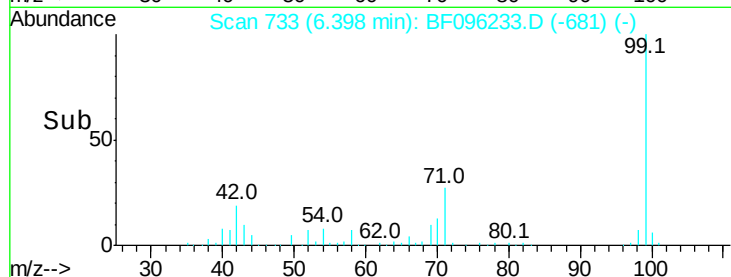
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 19.5  | 13.5  | 20.3  |
| 71  | 27.0  | 24.5  | 36.7  |



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



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.06 min Scan# 1016

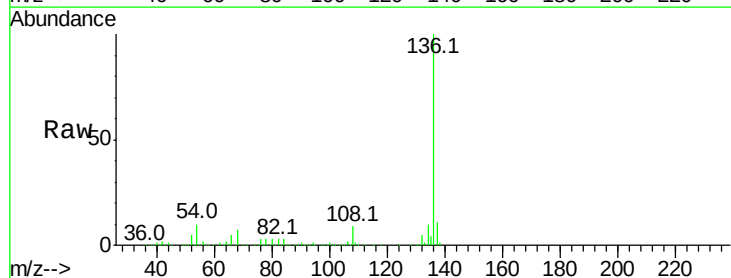
Delta R.T. 0.01 min

Lab File: BF096233.D

Acq: 27 Jun 2017 23:07

Tgt Ion: 136 Resp: 867260

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 136 | 100   |       |       |
| 137 | 10.7  | 8.5   | 12.7  |
| 54  | 10.4  | 4.9   | 7.3#  |
| 68  | 6.5   | 4.1   | 6.1#  |

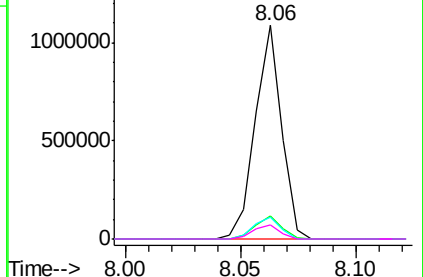
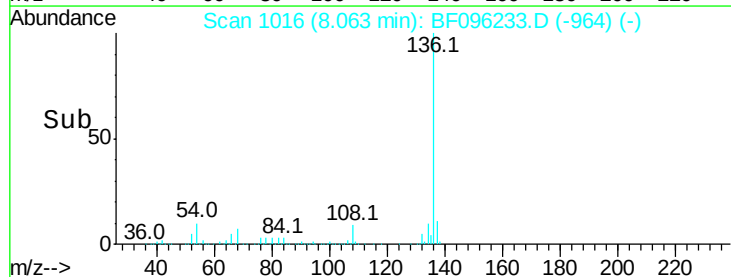


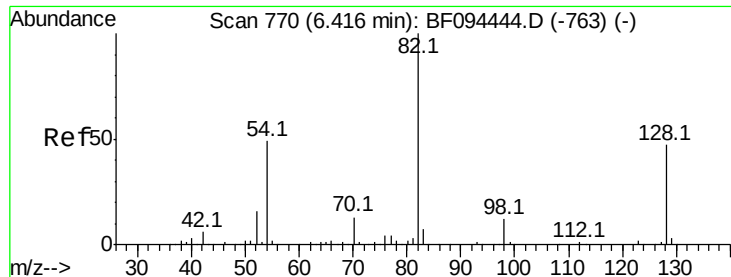
Abundance Ion 136.00 (135.70 to 136.70): E

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

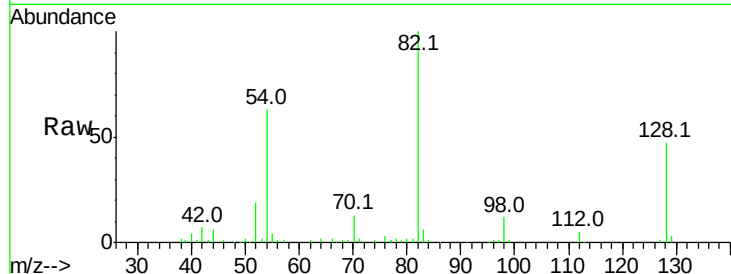




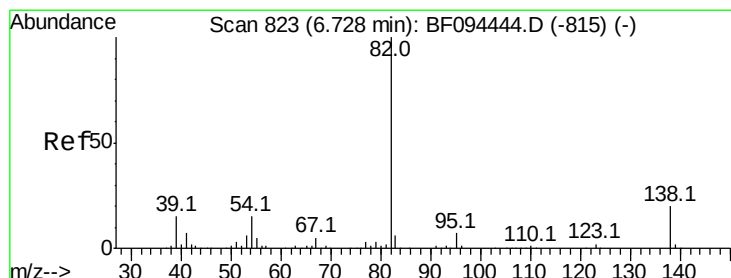
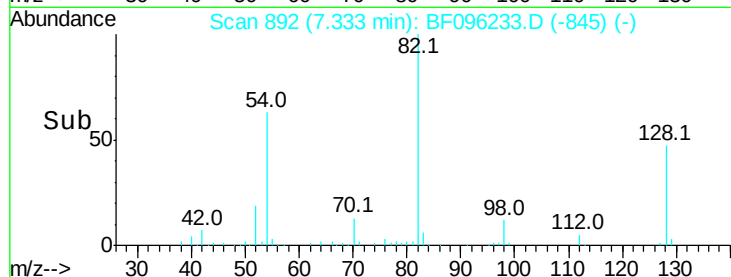
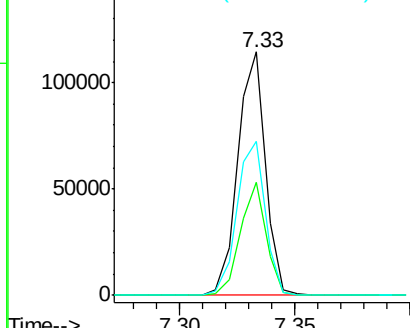
#23  
Nitrobenzene-d5  
Concen: 7.61 ng  
RT: 7.33 min Scan# 892  
Delta R.T. -0.02 min  
Lab File: BF096233.D  
Acq: 27 Jun 2017 23:07

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion: 82 Resp: 95344  
Ion Ratio Lower Upper  
82 100  
128 46.7 34.0 51.0  
54 63.2 42.2 63.2

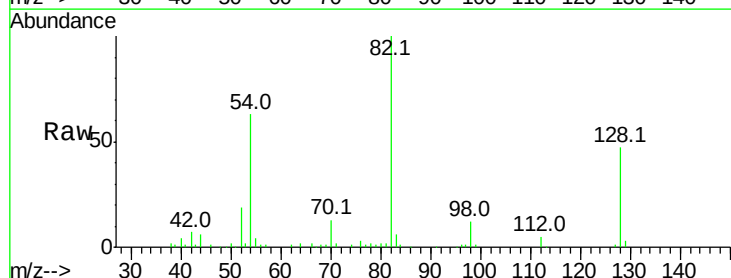


Abundance Ion 82.00 (81.70 to 82.70): BF0  
Ion 128.00 (127.70 to 128.70): BF0  
Ion 54.00 (53.70 to 54.70): BF0

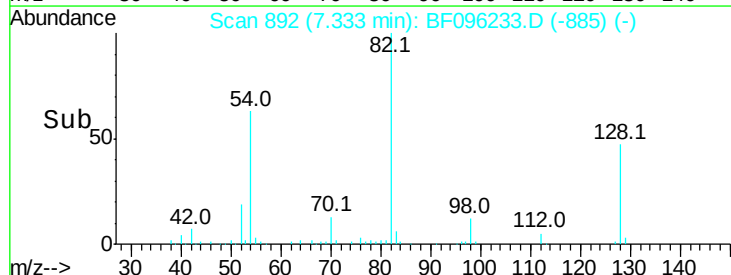
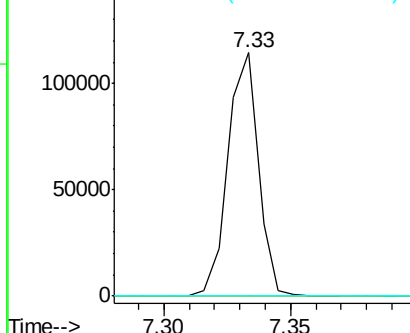


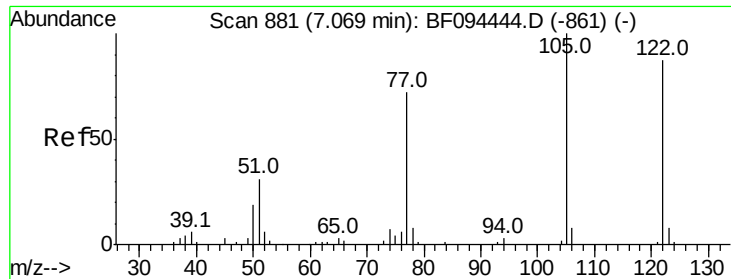
#25  
Isophorone  
Concen: 3.35 ng  
RT: 7.33 min Scan# 892  
Delta R.T. -0.26 min  
Lab File: BF096233.D  
Acq: 27 Jun 2017 23:07

Tgt Ion: 82 Resp: 95342  
Ion Ratio Lower Upper  
82 100  
95 0.3 5.3 7.9#  
138 0.0 13.1 19.7#



Abundance Ion 82.00 (81.70 to 82.70): BF0  
Ion 95.00 (94.70 to 95.70): BF0  
Ion 138.00 (137.70 to 138.70): BF0

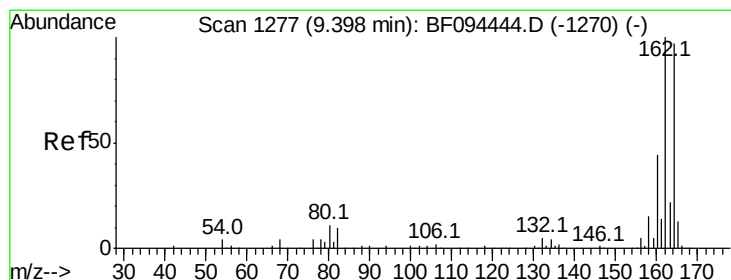
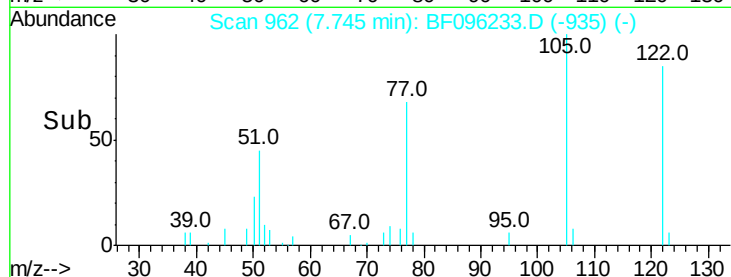
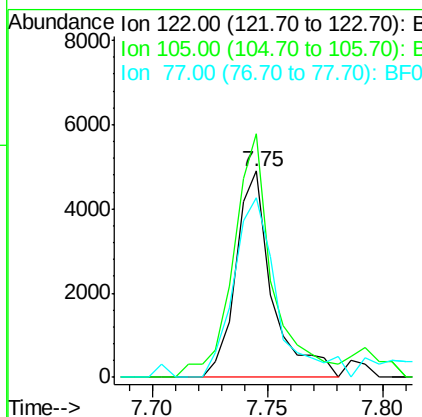
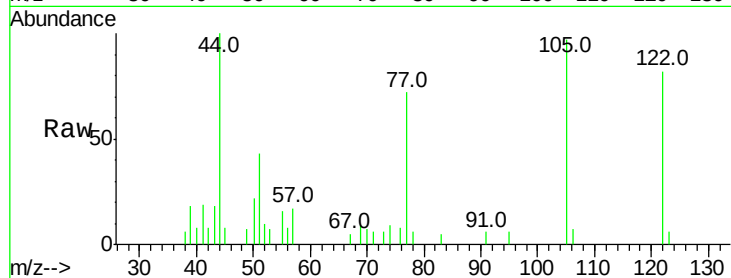




#32  
Benzoic acid  
Concen: 9.27 ng  
RT: 7.75 min Scan# 962  
Delta R.T. -0.14 min  
Lab File: BF096233.D  
Acq: 27 Jun 2017 23:07

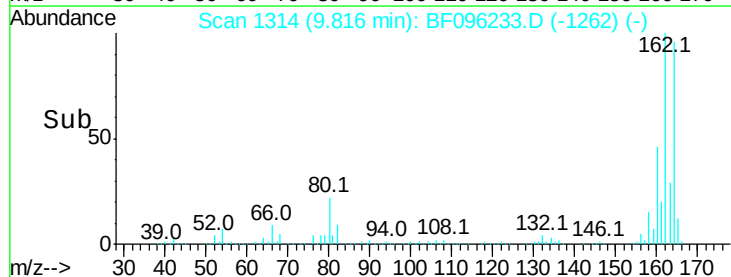
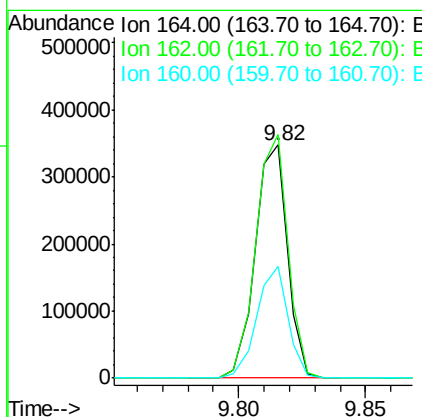
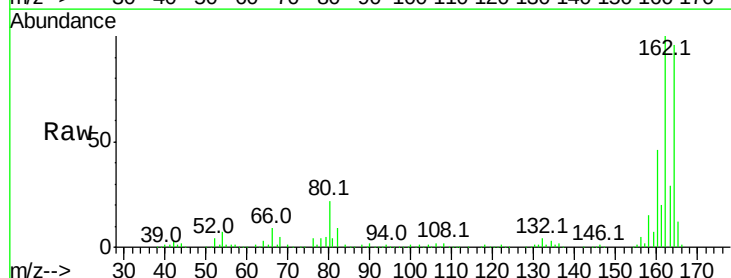
Instrument :  
BNA\_F  
ClientSampleId :

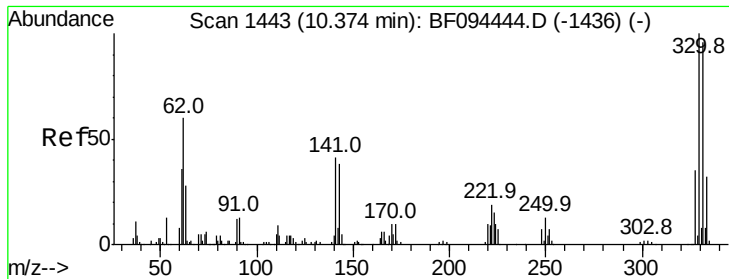
Tot Ion:122 Resp: 5351  
Ion Ratio Lower Upper  
122 100  
105 118.2 103.3 143.3  
77 87.4 73.7 113.7



#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.82 min Scan# 1314  
Delta R.T. 0.01 min  
Lab File: BF096233.D  
Acq: 27 Jun 2017 23:07

Tgt Ion:164 Resp: 308867  
Ion Ratio Lower Upper  
164 100  
162 104.4 82.6 123.8  
160 47.8 36.2 54.2

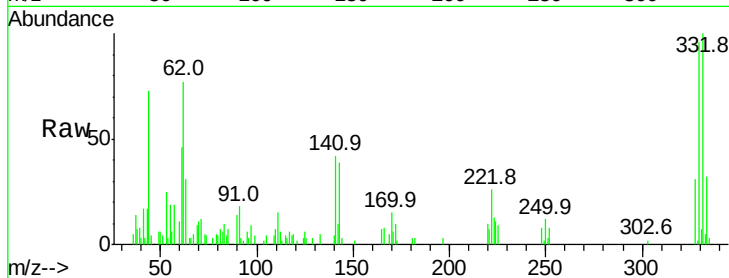




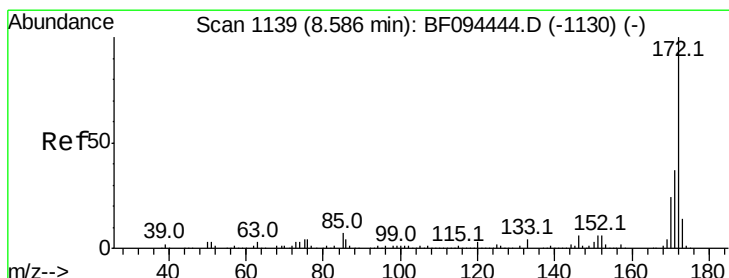
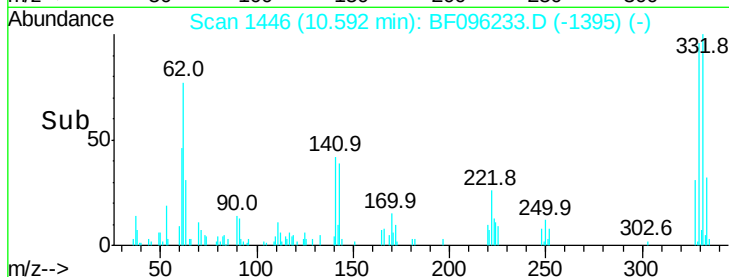
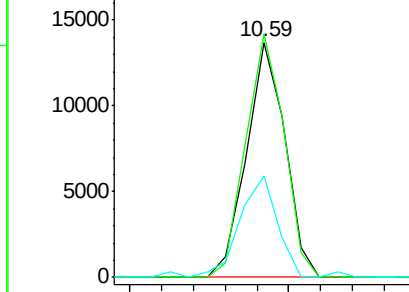
#41  
 2,4,6-Tribromophenol  
 Concen: 4.75 ng  
 RT: 10.59 min Scan# 1446  
 Delta R.T. -0.00 min  
 Lab File: BF096233.D  
 Acq: 27 Jun 2017 23:07

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:330 Resp: 11535  
 Ion Ratio Lower Upper  
 330 100  
 332 102.6 76.6 115.0  
 141 43.0 31.4 47.2

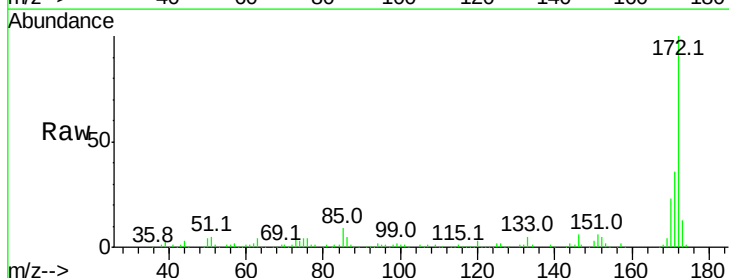


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

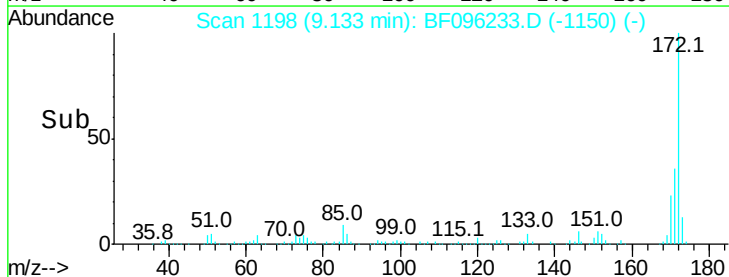
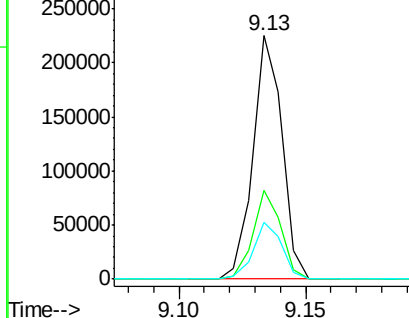


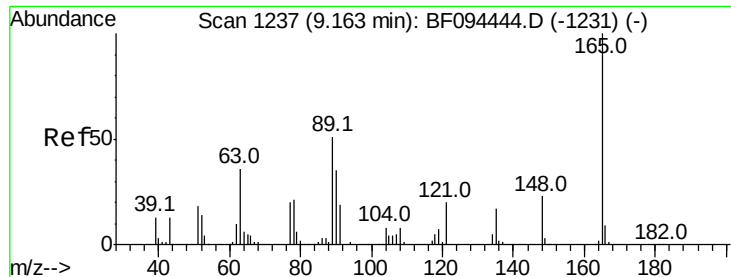
#44  
 2-Fluorobiphenyl  
 Concen: 10.66 ng  
 RT: 9.13 min Scan# 1198  
 Delta R.T. -0.02 min  
 Lab File: BF096233.D  
 Acq: 27 Jun 2017 23:07

Tgt Ion:172 Resp: 179724  
 Ion Ratio Lower Upper  
 172 100  
 171 36.2 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

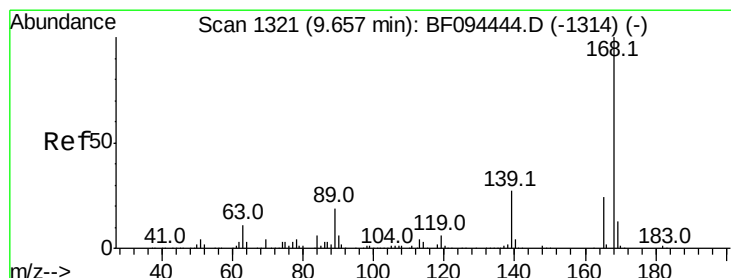
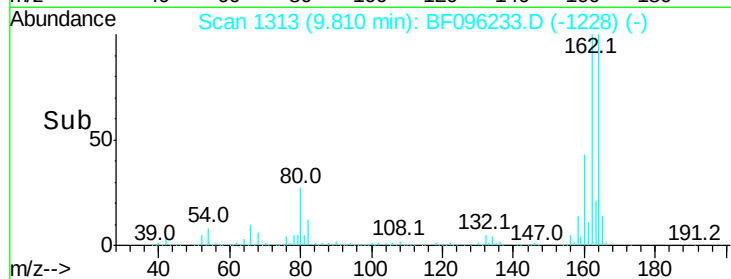
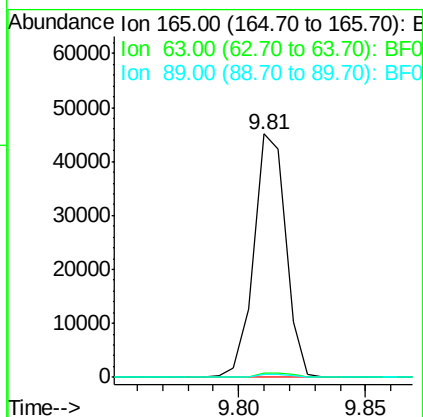
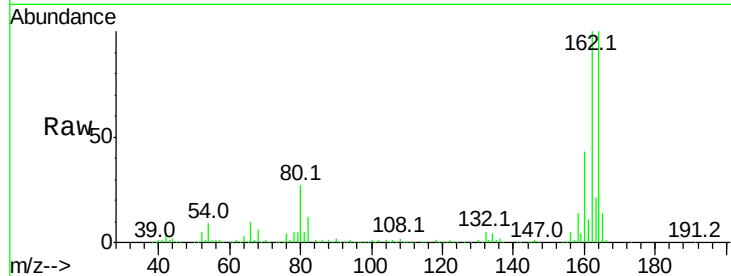




#50  
 2,6-Dinitrotoluene  
 Concen: 8.68 ng  
 RT: 9.81 min Scan# 1313  
 Delta R.T. 0.20 min  
 Lab File: BF096233.D  
 Acq: 27 Jun 2017 23:07

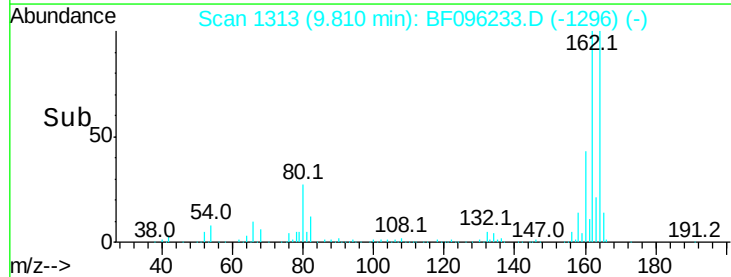
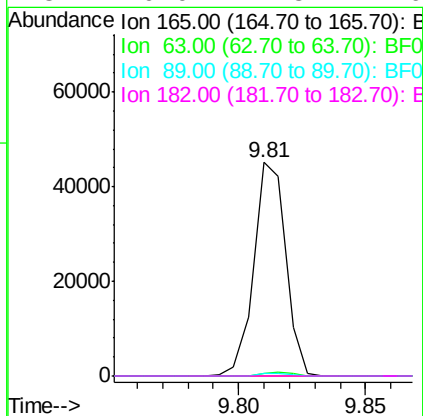
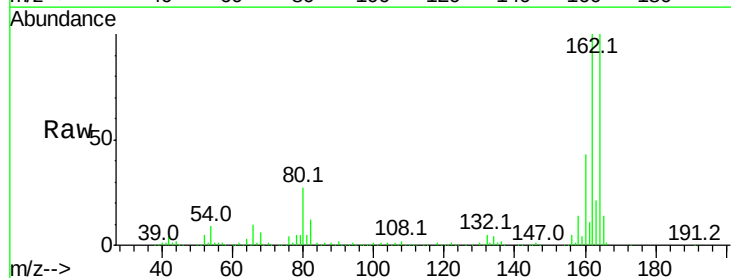
Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.5   | 34.3  | 51.5# |
| 89      | 1.1   | 37.1  | 55.7# |

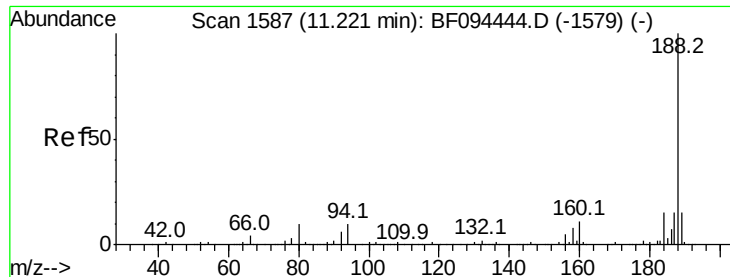


#56  
 2,4-Dinitrotoluene  
 Concen: 6.88 ng  
 RT: 9.81 min Scan# 1313  
 Delta R.T. -0.20 min  
 Lab File: BF096233.D  
 Acq: 27 Jun 2017 23:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.5   | 25.4  | 38.0# |
| 89      | 1.1   | 46.4  | 69.6# |
| 182     | 0.0   | 1.8   | 2.6#  |



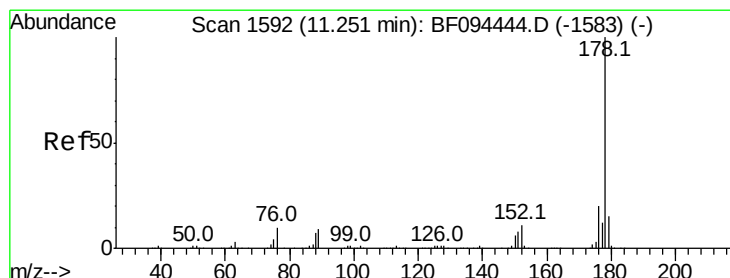
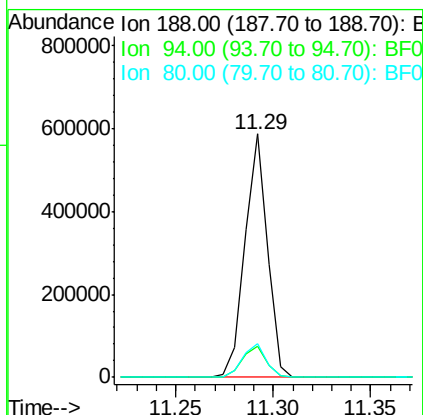
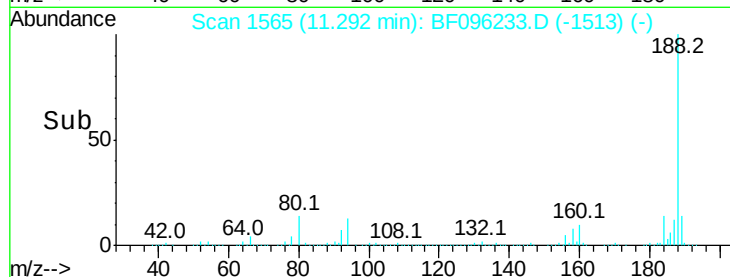
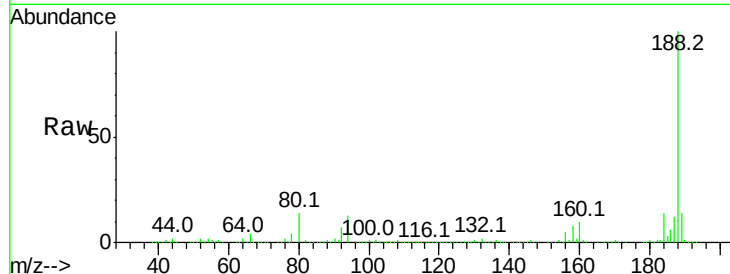




#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.29 min Scan# 1565  
Delta R.T. 0.01 min  
Lab File: BF096233.D  
Acq: 27 Jun 2017 23:07

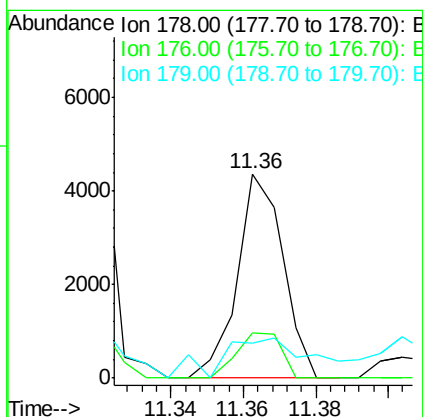
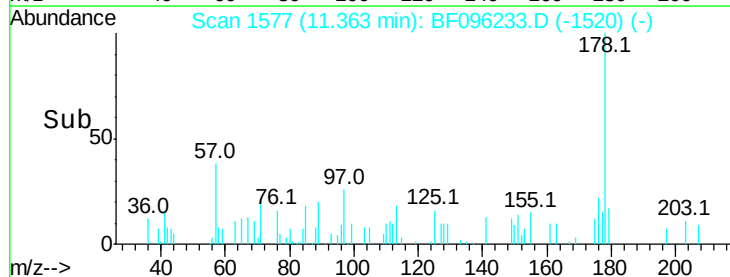
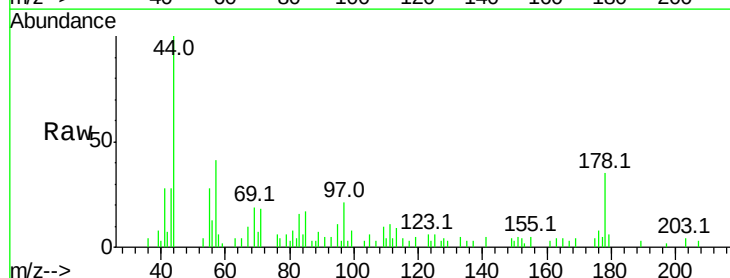
Instrument :  
BNA\_F  
ClientSampleId :

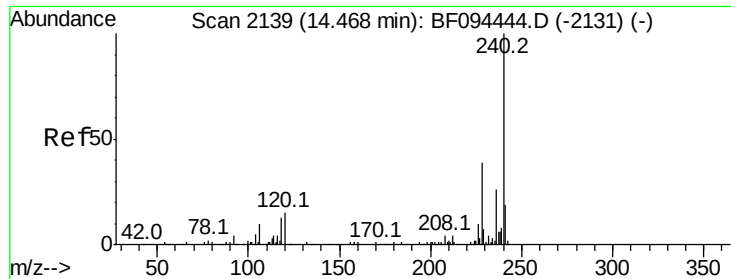
Tot Ion:188 Resp: 468278  
Ion Ratio Lower Upper  
188 100  
94 12.7 9.4 14.2  
80 14.0 10.2 15.2



#70  
Phenanthrene  
Concen: Below Cal  
RT: 11.36 min Scan# 1577  
Delta R.T. 0.04 min  
Lab File: BF096233.D  
Acq: 27 Jun 2017 23:07

Tgt Ion:178 Resp: 3832  
Ion Ratio Lower Upper  
178 100  
176 22.2 16.2 24.4  
179 17.1 12.6 19.0





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.92 min Scan# 2012

Delta R.T. 0.01 min

Lab File: BF096233.D

Acq: 27 Jun 2017 23:07

Instrument :

BNA\_F

ClientSampleId :

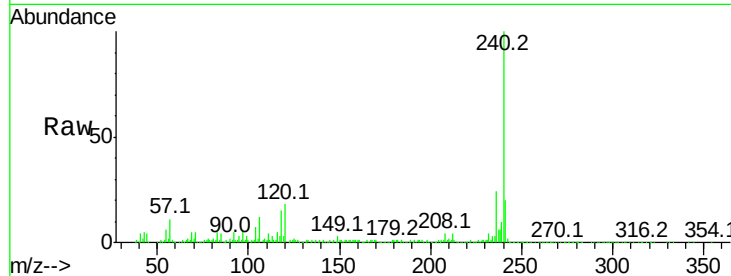
Tot Ion:240 Resp: 390860

Ion Ratio Lower Upper

240 100

120 18.3 5.8 8.8#

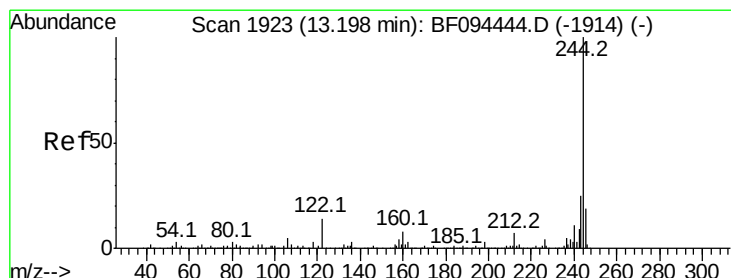
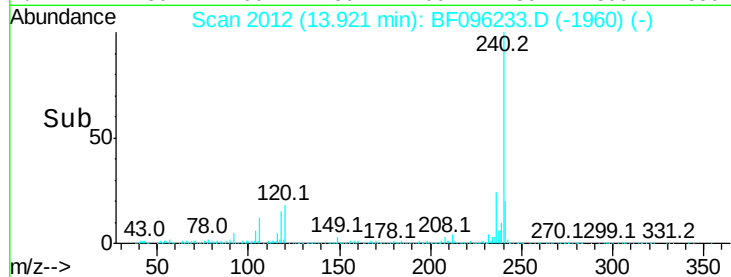
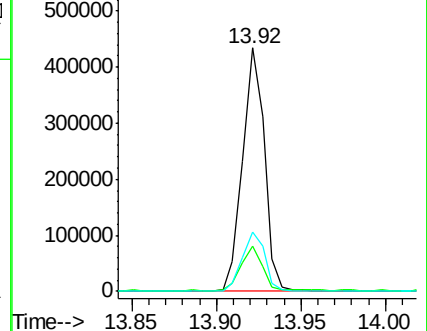
236 24.5 20.5 30.7



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



#78

Terphenyl-d14

Concen: 7.61 ng

RT: 12.87 min Scan# 1834

Delta R.T. 0.01 min

Lab File: BF096233.D

Acq: 27 Jun 2017 23:07

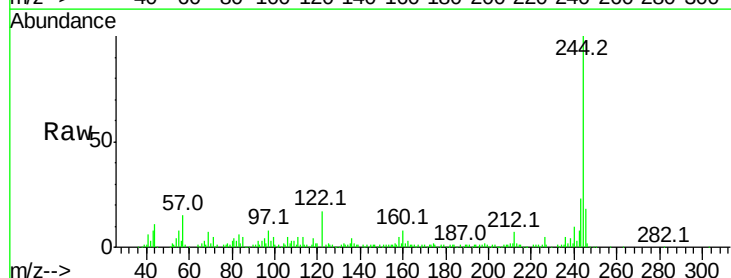
Tgt Ion:244 Resp: 119267

Ion Ratio Lower Upper

244 100

212 7.2 6.0 9.0

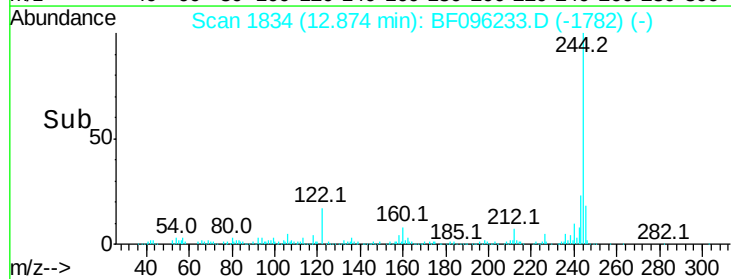
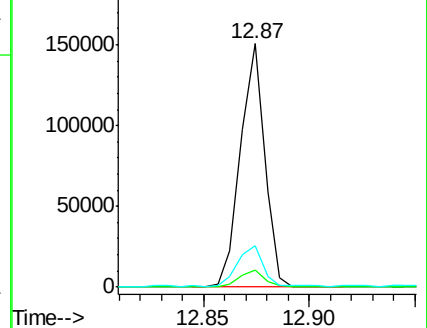
122 16.9 10.3 15.5#

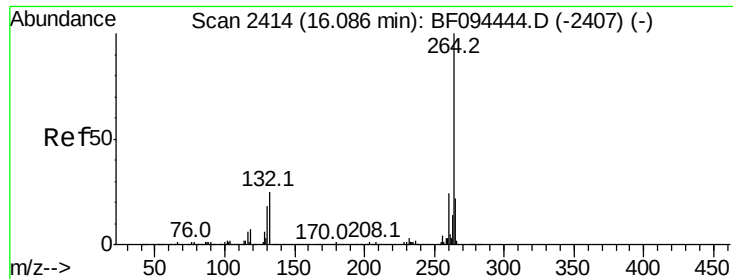


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 15.35 min Scan# 2255  
Delta R.T. 0.01 min  
Lab File: BF096233.D  
Acq: 27 Jun 2017 23:07

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.8  | 19.5  | 29.3  |
| 265     | 23.0  | 17.2  | 25.8  |

