

Data Path : Z:\HPCHEM1\BNA F\DATA\BF122117\  
 Data File : BF101617.D  
 Acq On : 21 Dec 2017 19:54  
 Operator : SJ/JU  
 Sample : I6957-04 10X  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Dec 22 00:52:33 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121417.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Dec 20 14:25:04 2017  
 Response via : Initial Calibration

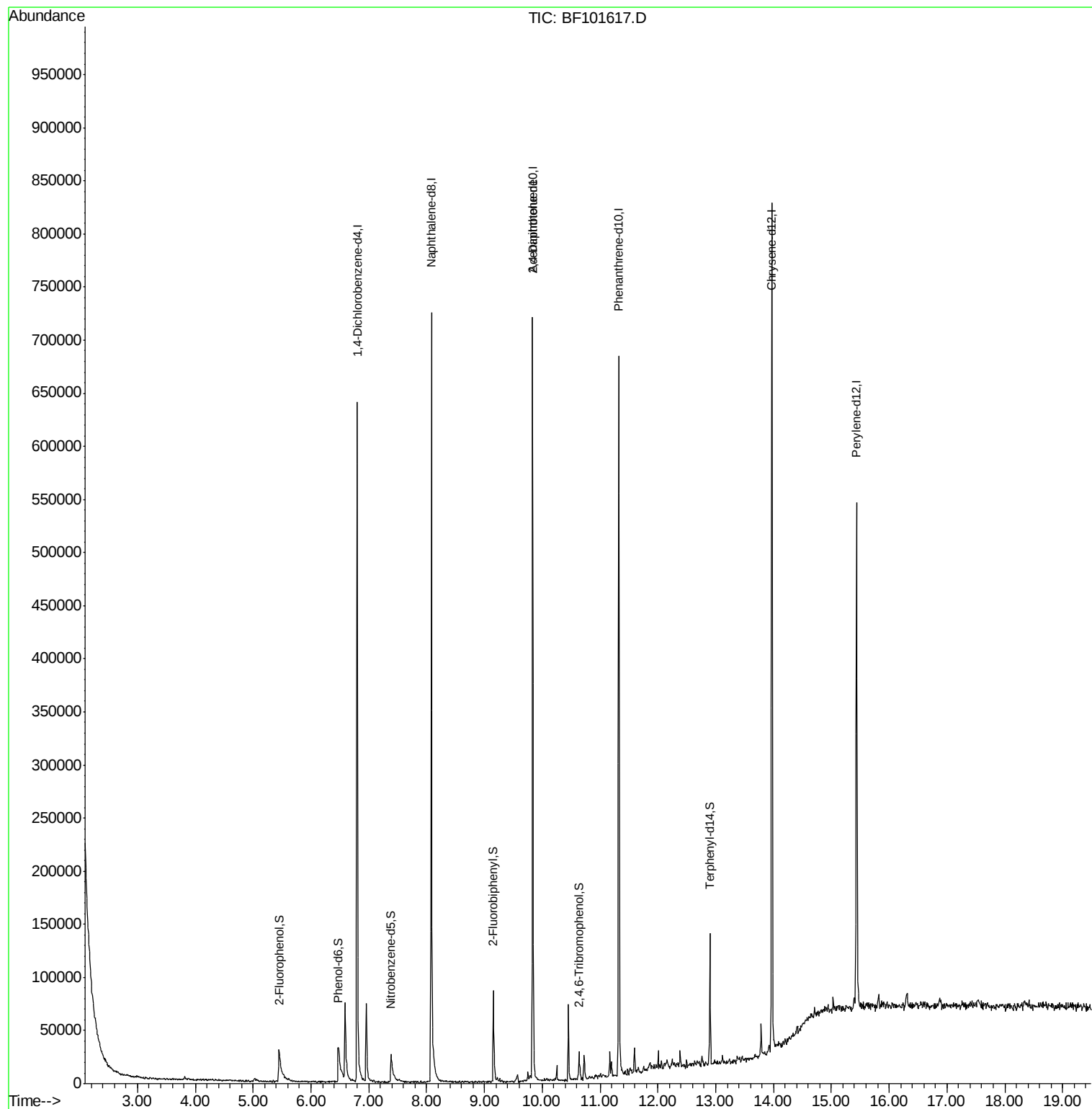
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min)       |
|-----------------------------|-------|------|----------|-------|-------|----------------|
| 1) 1,4-Dichlorobenzene-d4   | 6.80  | 152  | 115785   | 20.00 | ng    | 0.00           |
| 21) Naphthalene-d8          | 8.08  | 136  | 410035   | 20.00 | ng    | 0.00           |
| 38) Acenaphthene-d10        | 9.83  | 164  | 146661   | 20.00 | ng    | 0.00           |
| 63) Phenanthrene-d10        | 11.32 | 188  | 262119   | 20.00 | ng    | 0.00           |
| 75) Chrysene-d12            | 13.97 | 240  | 291919   | 20.00 | ng    | 0.00           |
| 86) Perylene-d12            | 15.44 | 264  | 236521   | 20.00 | ng    | 0.00           |
| System Monitoring Compounds |       |      |          |       |       |                |
| 5) 2-Fluorophenol           | 5.45  | 112  | 24502    | 3.15  | ng    | 0.04           |
| 7) Phenol-d6                | 6.47  | 99   | 41013    | 4.24  | ng    | 0.03           |
| 23) Nitrobenzene-d5         | 7.39  | 82   | 25030    | 3.40  | ng    | 0.02           |
| 41) 2,4,6-Tribromophenol    | 10.64 | 330  | 4663     | 3.30  | ng    | 0.00           |
| 44) 2-Fluorobiphenyl        | 9.16  | 172  | 44398    | 4.70  | ng    | 0.00           |
| 78) Terphenyl-d14           | 12.90 | 244  | 39160    | 3.23  | ng    | 0.00           |
| Target Compounds            |       |      |          |       |       |                |
| 56) 2,4-Dinitrotoluene      | 9.83  | 165  | 18490    | 6.845 | ng    | Qvalue<br># 23 |

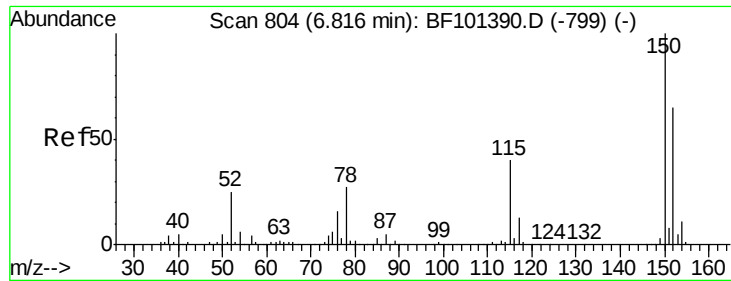
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :

Quant Time: Dec 22 00:52:33 2017  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121417.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Dec 20 14:25:04 2017  
Response via : Initial Calibration



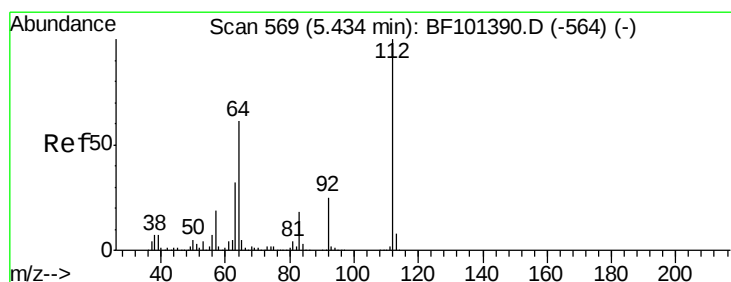
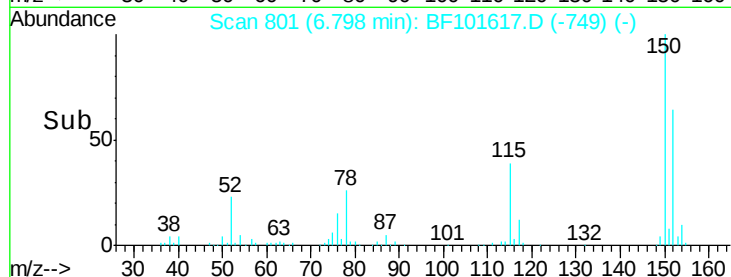
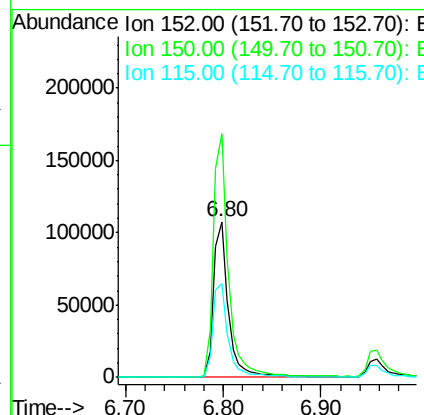
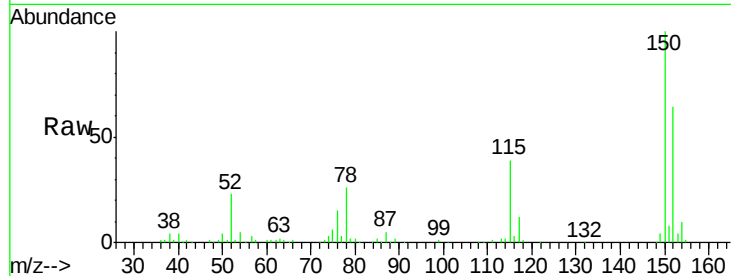


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.80 min Scan# 801  
Delta R.T. 0.01 min  
Lab File: BF101617.D  
Acq: 21 Dec 2017 19:54

Instrument :  
BNA\_F  
ClientSampleId :

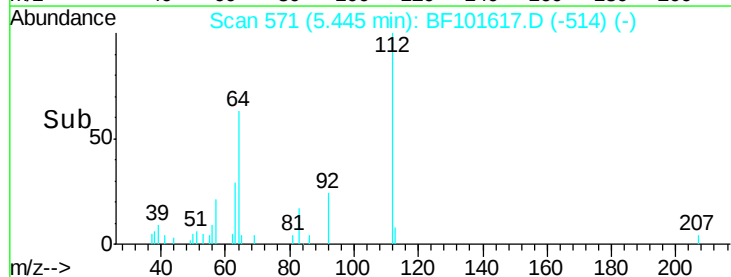
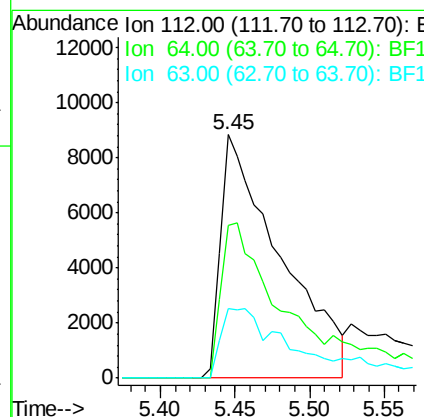
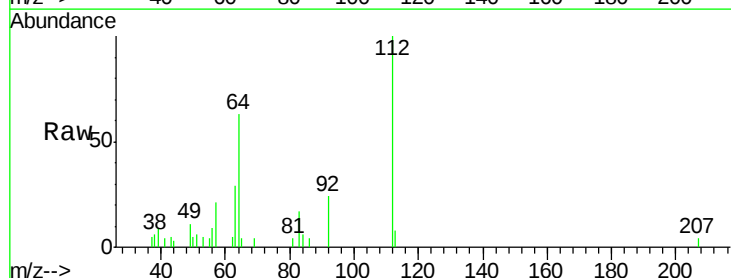
Tot Ion:152 Resp: 115785  
Ion Ratio Lower Upper  
152 100  
150 156.8 124.6 186.8  
115 60.6 50.1 75.1

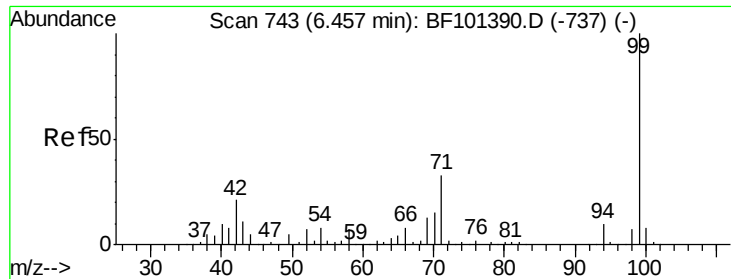


#5

2-Fluorophenol  
Concen: 3.152 ng  
RT: 5.45 min Scan# 571  
Delta R.T. 0.04 min  
Lab File: BF101617.D  
Acq: 21 Dec 2017 19:54

Tgt Ion:112 Resp: 24502  
Ion Ratio Lower Upper  
112 100  
64 62.9 47.9 71.9  
63 28.8 23.7 35.5





#7

Phenol-d6

Concen: 4.240 ng

RT: 6.47 min Scan# 745

Delta R.T. 0.03 min

Lab File: BF101617.D

Acq: 21 Dec 2017 19:54

Instrument :

BNA\_F

ClientSampleId :

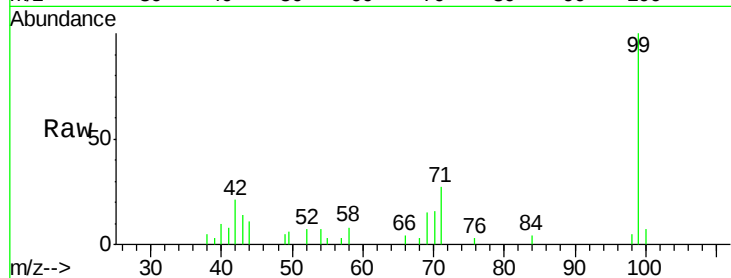
Tot Ion: 99 Resp: 41013

Ion Ratio Lower Upper

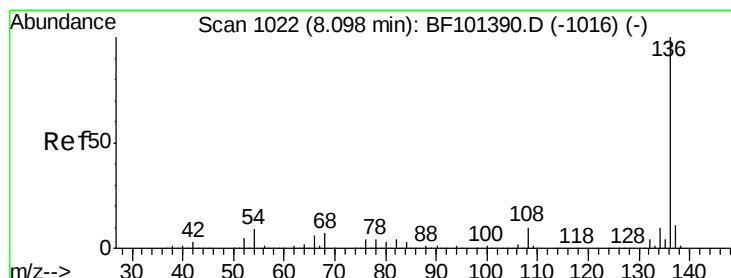
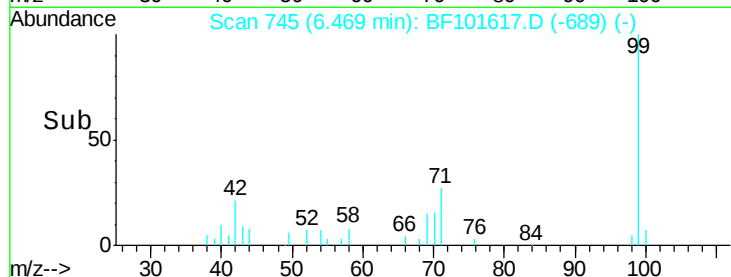
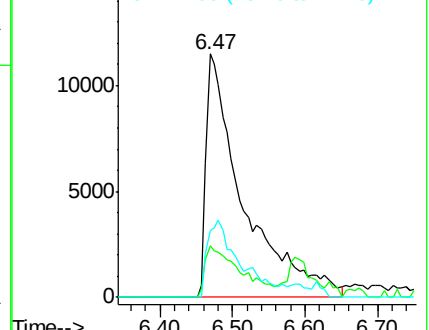
99 100

42 21.1 14.5 21.7

71 27.4 25.4 38.0



Abundance Ion 99.00 (98.70 to 99.70): BF1  
Ion 42.00 (41.70 to 42.70): BF1  
Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.08 min Scan# 1019

Delta R.T. -0.00 min

Lab File: BF101617.D

Acq: 21 Dec 2017 19:54

Tgt Ion: 136 Resp: 410035

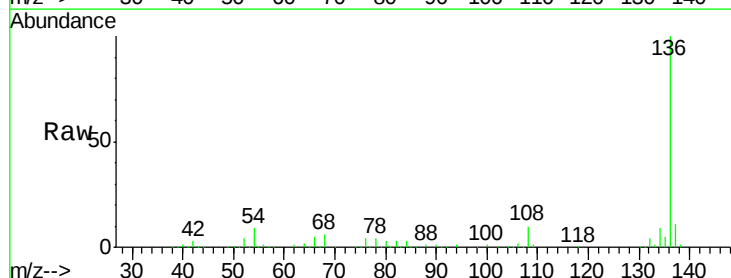
Ion Ratio Lower Upper

136 100

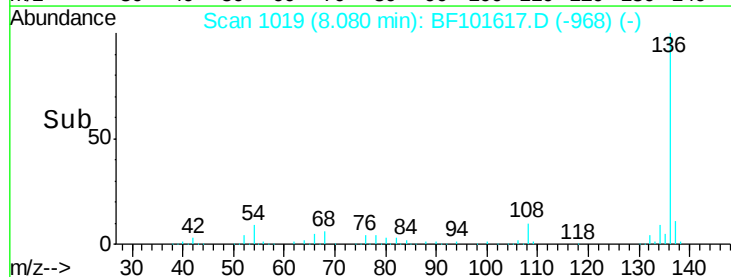
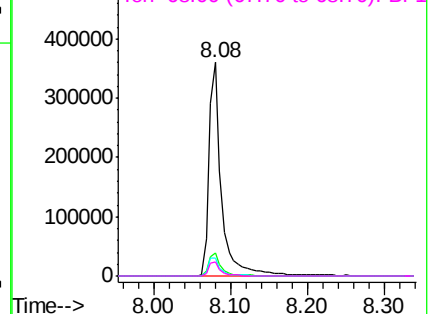
137 10.6 8.9 13.3

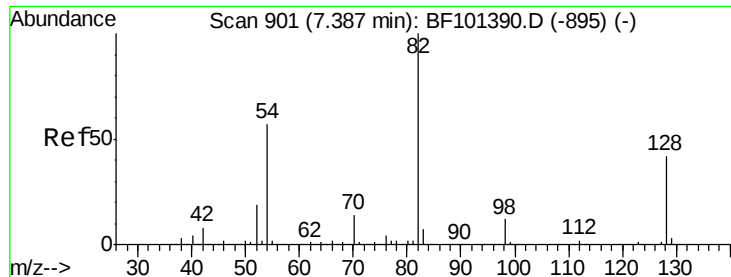
54 8.6 6.6 9.8

68 6.5 5.0 7.4



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): BF1  
Ion 68.00 (67.70 to 68.70): BF1

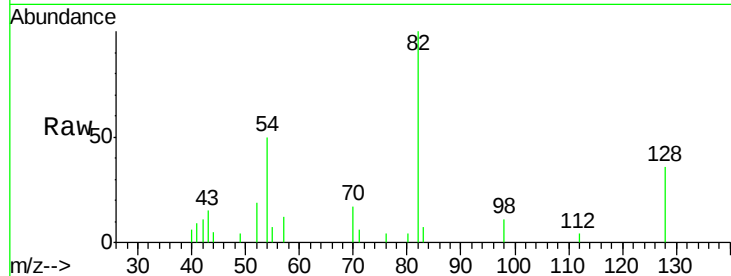




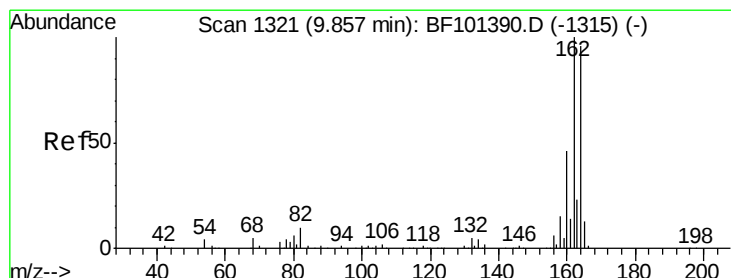
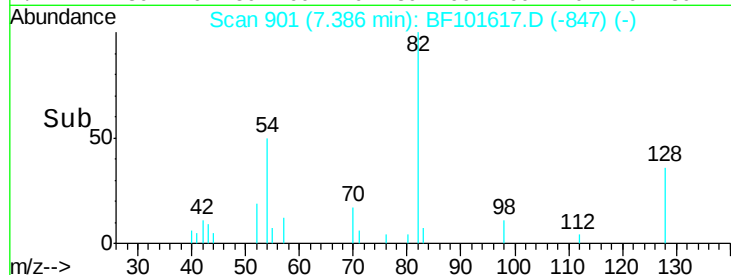
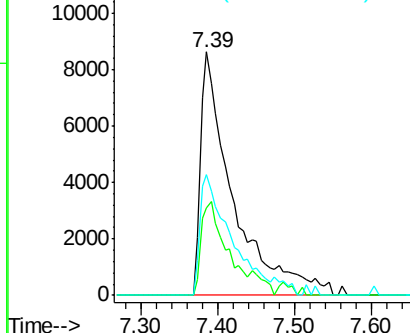
#23  
Nitrobenzene-d5  
Concen: 3.398 ng  
RT: 7.39 min Scan# 901  
Delta R.T. 0.02 min  
Lab File: BF101617.D  
Acq: 21 Dec 2017 19:54

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion   | 82    | Resp  | 25030 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 82        | 100   |       |       |
| 128       | 36.1  | 36.1  | 54.1  |
| 54        | 49.6  | 41.4  | 62.2  |

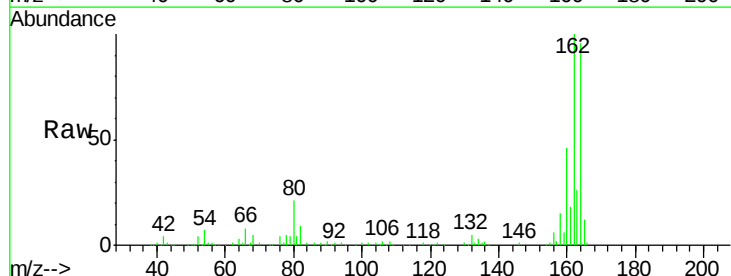


Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 128.00 (127.70 to 128.70): BF1  
Ion 54.00 (53.70 to 54.70): BF1

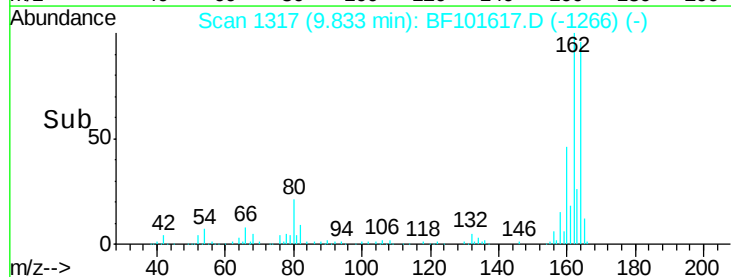
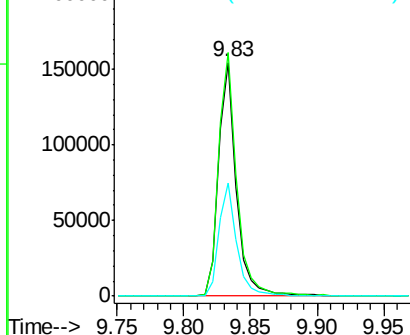


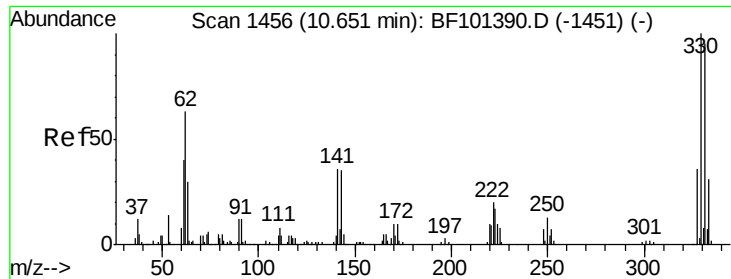
#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.83 min Scan# 1317  
Delta R.T. -0.00 min  
Lab File: BF101617.D  
Acq: 21 Dec 2017 19:54

| Tgt Ion   | 164   | Resp  | 146661 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 164       | 100   |       |        |
| 162       | 104.3 | 86.1  | 129.1  |
| 160       | 48.2  | 38.3  | 57.5   |



Abundance Ion 164.00 (163.70 to 164.70): BF1  
Ion 162.00 (161.70 to 162.70): BF1  
Ion 160.00 (159.70 to 160.70): BF1

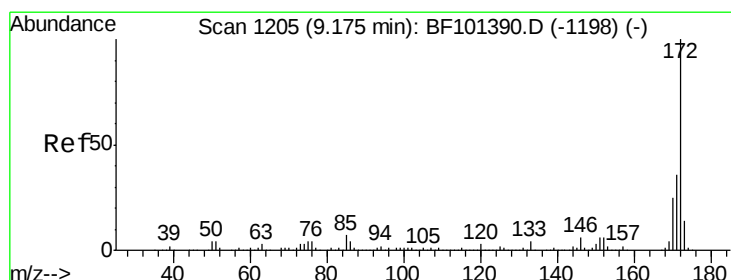
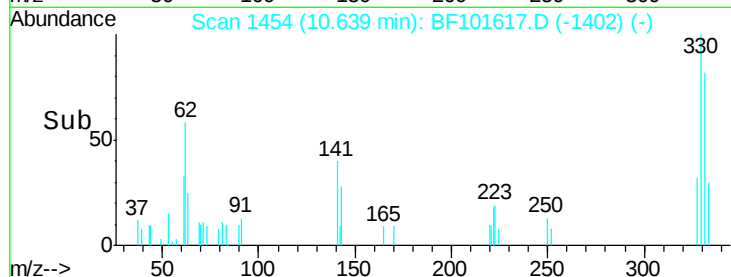
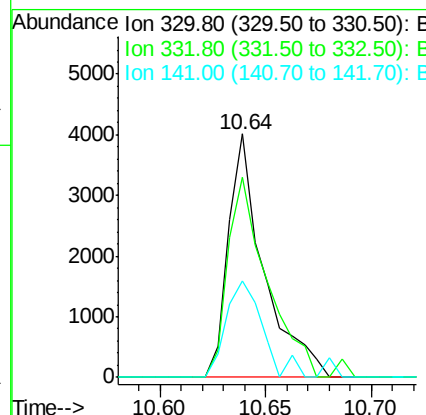
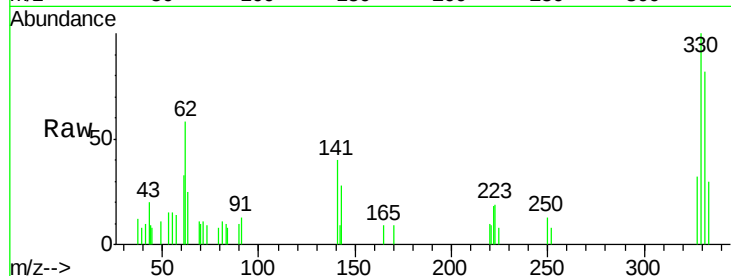




#41  
 2,4,6-Tribromophenol  
 Concen: 3.300 ng  
 RT: 10.64 min Scan# 1454  
 Delta R.T. 0.01 min  
 Lab File: BF101617.D  
 Acq: 21 Dec 2017 19:54

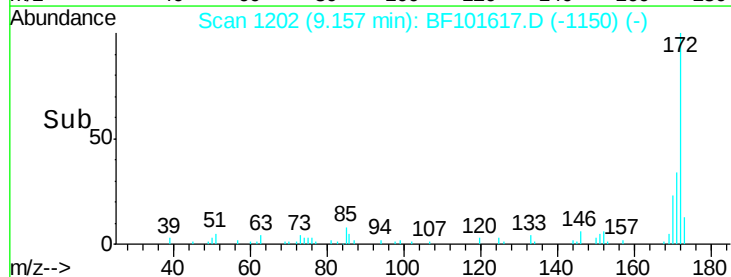
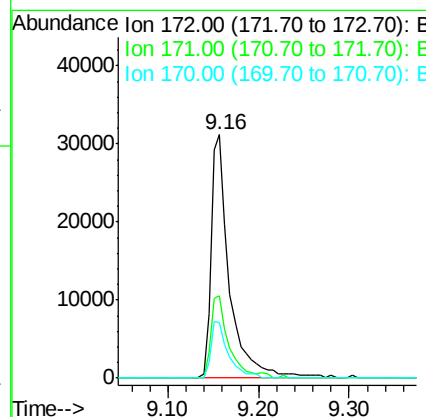
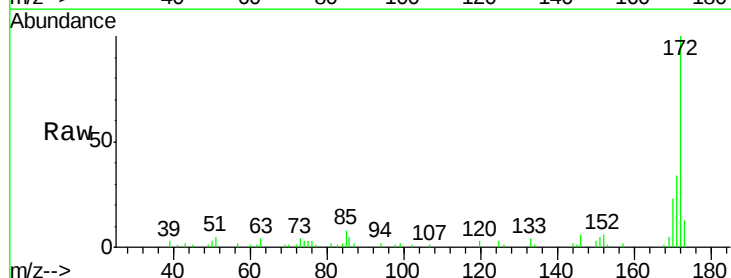
Instrument :  
 BNA\_F  
 ClientSampled :

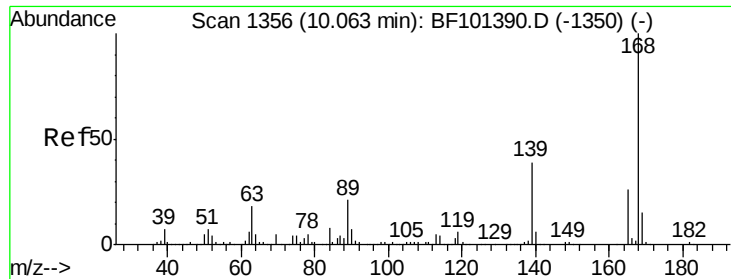
Tot Ion:330 Resp: 4663  
 Ion Ratio Lower Upper  
 330 100  
 332 90.6 77.0 115.6  
 141 40.6 29.9 44.9



#44  
 2-Fluorobiphenyl  
 Concen: 4.696 ng  
 RT: 9.16 min Scan# 1202  
 Delta R.T. 0.01 min  
 Lab File: BF101617.D  
 Acq: 21 Dec 2017 19:54

Tgt Ion:172 Resp: 44398  
 Ion Ratio Lower Upper  
 172 100  
 171 33.6 29.7 44.5  
 170 22.6 19.6 29.4

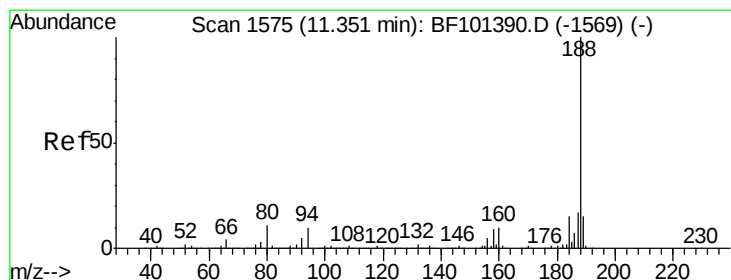
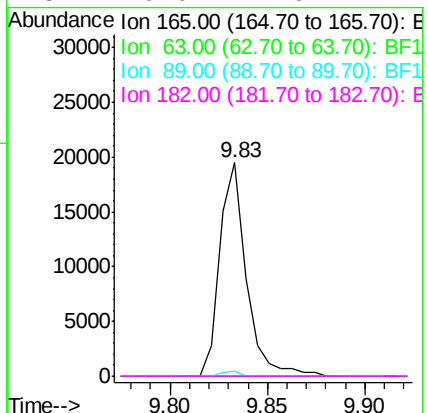
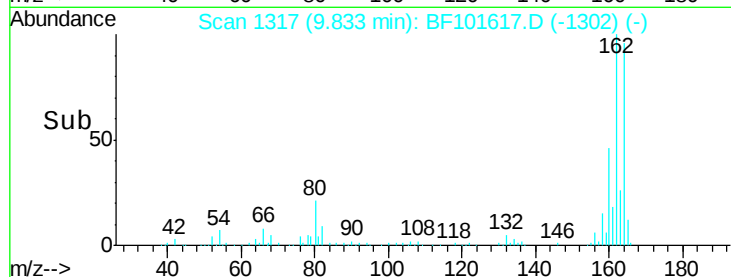
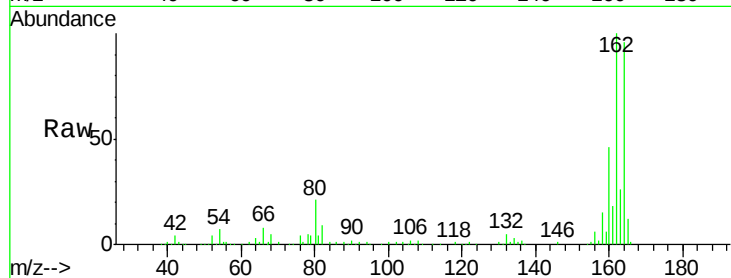




#56  
 2,4-Dinitrotoluene  
 Concen: 6.845 ng  
 RT: 9.83 min Scan# 1317  
 Delta R.T. -0.21 min  
 Lab File: BF101617.D  
 Acq: 21 Dec 2017 19:54

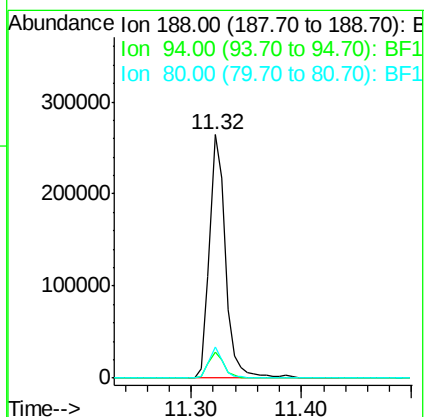
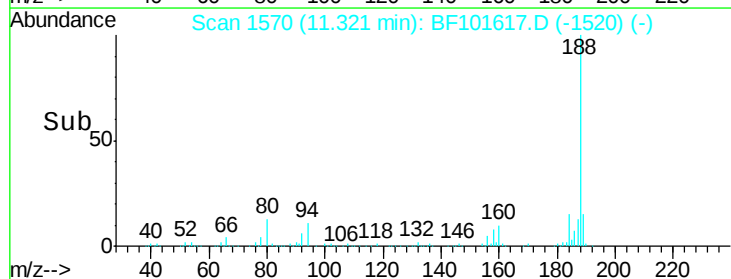
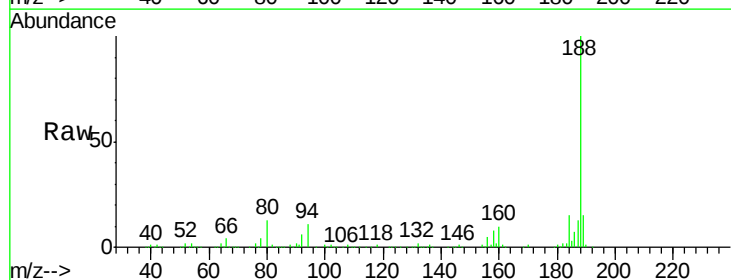
Instrument :  
 BNA\_F  
 ClientSampleId :

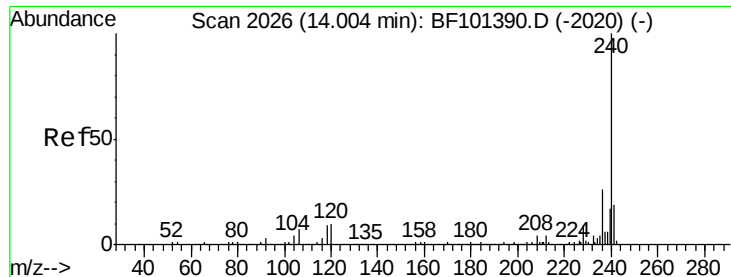
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 165   | Resp: | 18490 |
| Ion      | Ratio | Lower | Upper |
| 165      | 100   |       |       |
| 63       | 0.0   | 36.4  | 54.6# |
| 89       | 2.2   | 57.8  | 86.6# |
| 182      | 0.0   | 1.6   | 2.4#  |



#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.32 min Scan# 1570  
 Delta R.T. -0.01 min  
 Lab File: BF101617.D  
 Acq: 21 Dec 2017 19:54

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 188   | Resp: | 262119 |
| Ion      | Ratio | Lower | Upper  |
| 188      | 100   |       |        |
| 94       | 10.8  | 8.5   | 12.7   |
| 80       | 12.6  | 9.2   | 13.8   |





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.97 min Scan# 2021

Delta R.T. -0.00 min

Lab File: BF101617.D

Acq: 21 Dec 2017 19:54

Instrument :

BNA\_F

ClientSampleId :

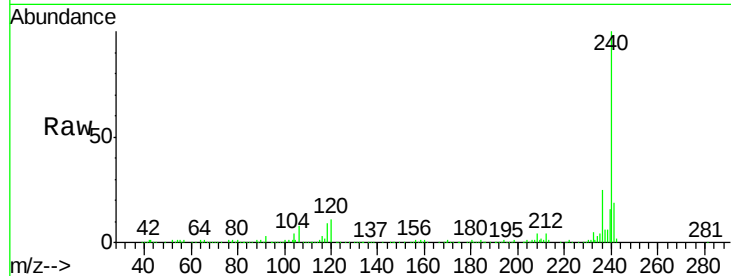
Tot Ion:240 Resp: 291919

Ion Ratio Lower Upper

240 100

120 10.9 9.5 14.3

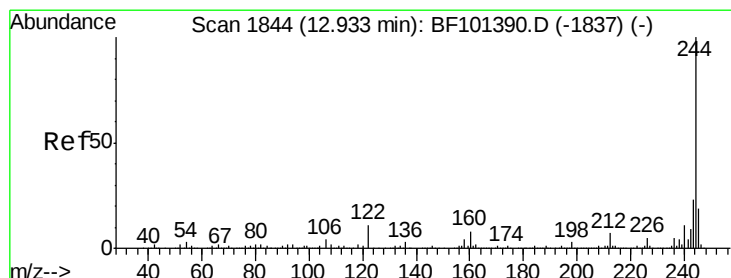
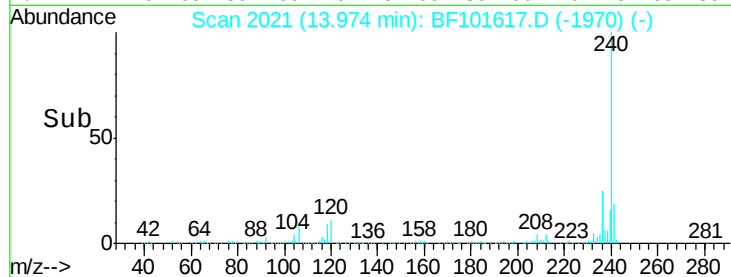
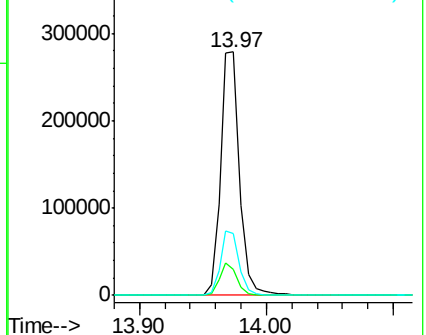
236 25.1 20.7 31.1



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: 3.234 ng

RT: 12.90 min Scan# 1839

Delta R.T. -0.01 min

Lab File: BF101617.D

Acq: 21 Dec 2017 19:54

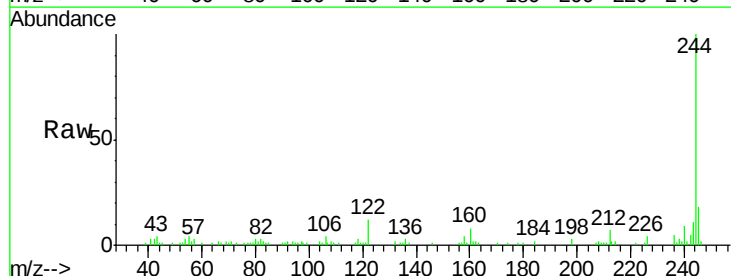
Tgt Ion:244 Resp: 39160

Ion Ratio Lower Upper

244 100

212 7.2 5.4 8.0

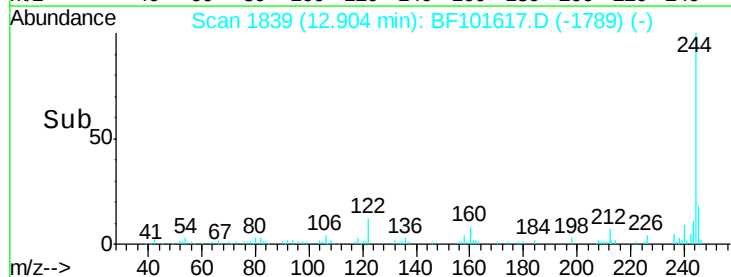
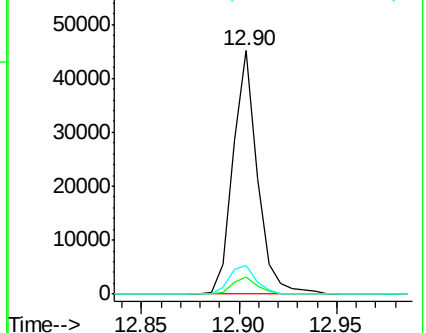
122 11.5 11.0 16.4

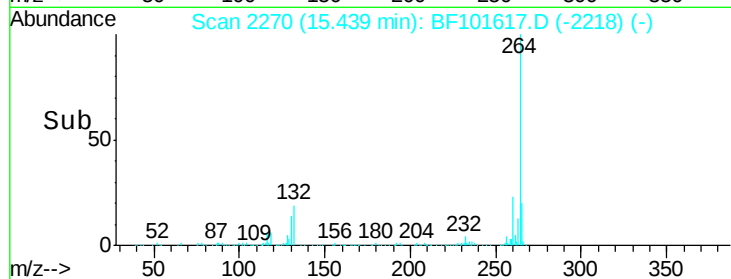
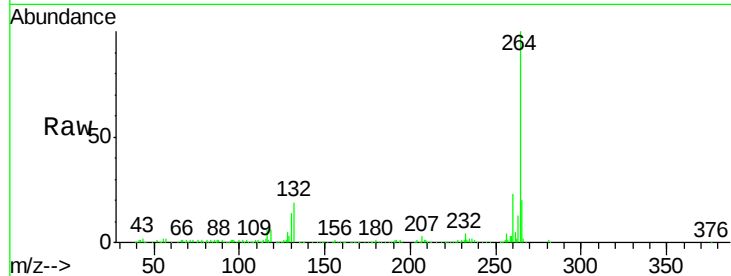
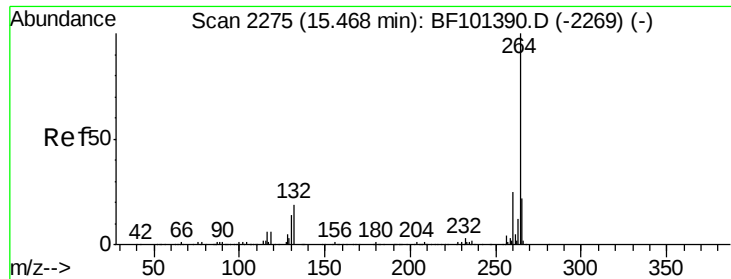


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.44 min Scan# 2270  
Delta R.T. 0.01 min  
Lab File: BF101617.D  
Acq: 21 Dec 2017 19:54

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.4  | 19.2  | 28.8  |
| 265     | 20.3  | 17.5  | 26.3  |

