

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF102315\  
 Data File : BF082501.D  
 Acq On : 24 Oct 2015 9:09  
 Operator : UM/IZ  
 Sample : G4116-13RE  
 Misc :  
 ALS Vial : 30 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 BT-02(0-2)

Quant Time: Oct 24 23:20:44 2015  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF101015.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Oct 23 15:17:13 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.75  | 152  | 112382   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.05  | 136  | 418913   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 9.79  | 164  | 194813   | 20.00 | ng    | -0.01    |
| 63) Phenanthrene-d10      | 11.29 | 188  | 343469   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 13.97 | 240  | 256584   | 20.00 | ng    | -0.07    |
| 86) Perylene-d12          | 15.49 | 264  | 239656   | 20.00 | ng    | -0.14    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 5) 2-Fluorophenol           | 5.36  | 112  | 519722   | 93.33 | ng    | 0.01     |
| 7) Phenol-d6                | 6.41  | 99   | 689046   | 95.09 | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.33  | 82   | 396039   | 63.49 | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol    | 10.59 | 330  | 129628   | 70.95 | ng    | -0.01    |
| 44) 2-Fluorobiphenyl        | 9.12  | 172  | 721243   | 61.40 | ng    | -0.01    |
| 78) Terphenyl-d14           | 12.88 | 244  | 538795   | 55.65 | ng    | -0.02    |

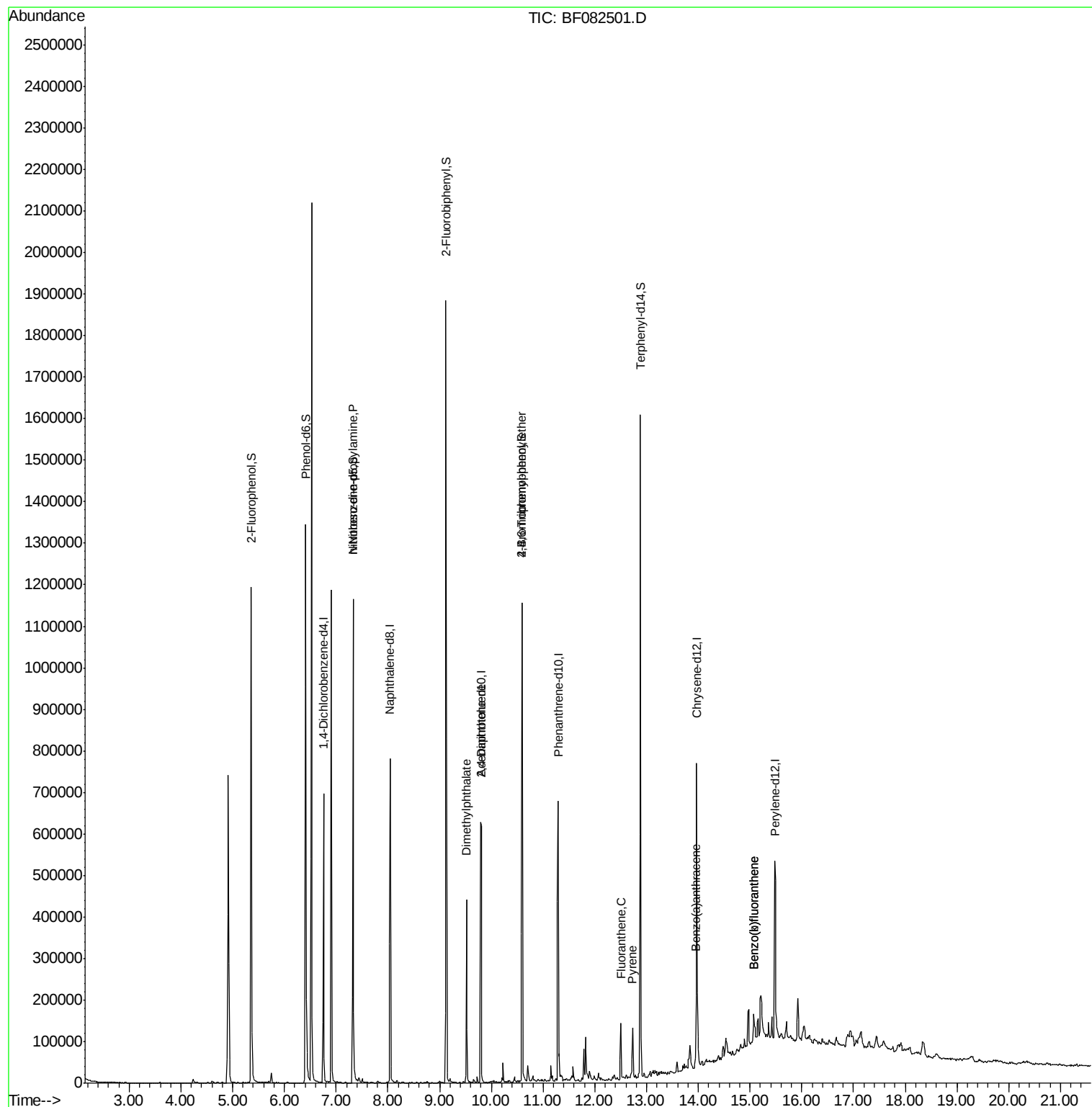
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 19) n-Nitroso-di-n-propylamine | 7.33  | 70   | 52588    | 10.33 | ng    | # 80   |
| 49) Dimethylphthalate          | 9.52  | 163  | 192944   | 14.06 | ng    | 100    |
| 56) 2,4-Dinitrotoluene         | 9.79  | 165  | 24918    | 6.89  | ng    | # 21   |
| 66) 4-Bromophenyl-phenylether  | 10.59 | 248  | 10175    | 2.96  | ng    | # 1    |
| 74) Fluoranthene               | 12.50 | 202  | 62686    | 3.47  | ng    | 97     |
| 77) Pyrene                     | 12.73 | 202  | 56185    | 3.69  | ng    | 97     |
| 80) Benzo(a)anthracene         | 13.96 | 228  | 31753    | 2.38  | ng    | 97     |
| 87) Benzo(b)fluoranthene       | 15.08 | 252  | 51112    | 3.51  | ng    | # 97   |
| 88) Benzo(k)fluoranthene       | 15.08 | 252  | 51112    | 4.17  | 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: 6.75 min Scan# 404

Delta R.T. -0.00 min

Lab File: BF082501.D

Acq: 24 Oct 2015 9:09

Instrument :

BNA\_F

ClientSampleId :

BT-02(0-2)

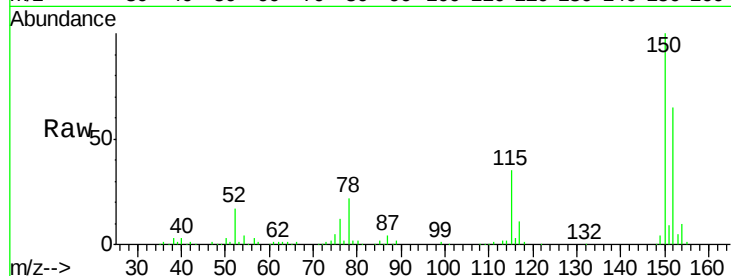
Tgt Ion:152 Resp: 112382

Ion Ratio Lower Upper

152 100

150 154.7 129.0 193.4

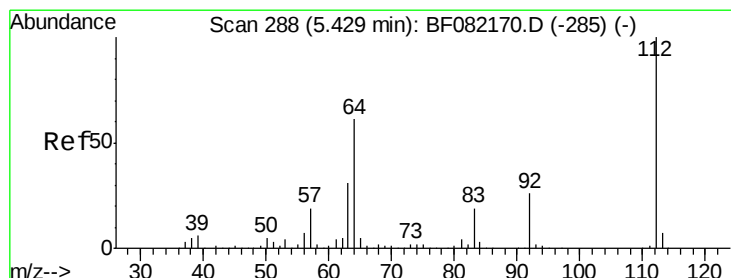
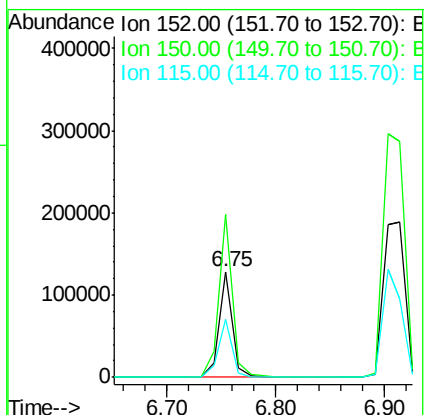
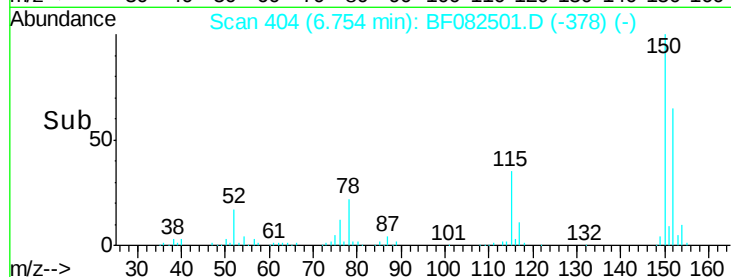
115 54.4 52.1 78.1



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: 93.33 ng

RT: 5.36 min Scan# 282

Delta R.T. 0.01 min

Lab File: BF082501.D

Acq: 24 Oct 2015 9:09

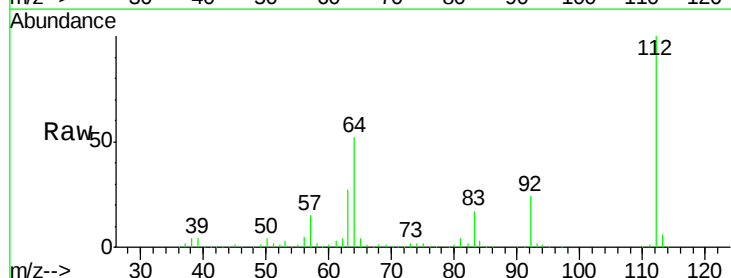
Tgt Ion:112 Resp: 519722

Ion Ratio Lower Upper

112 100

64 52.0 48.6 73.0

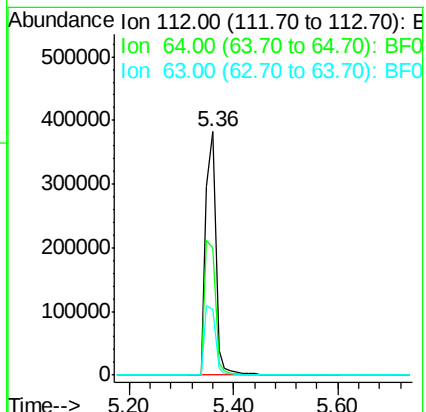
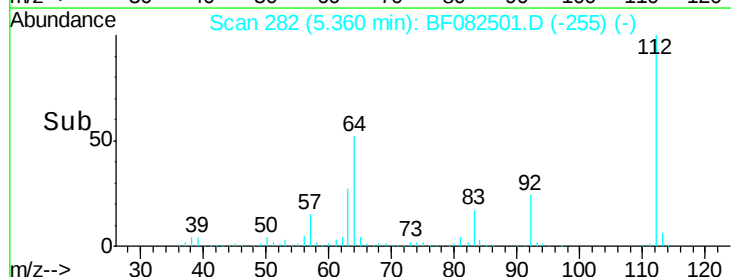
63 27.0 25.1 37.7

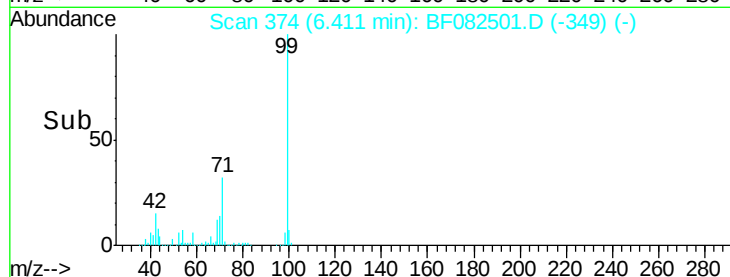
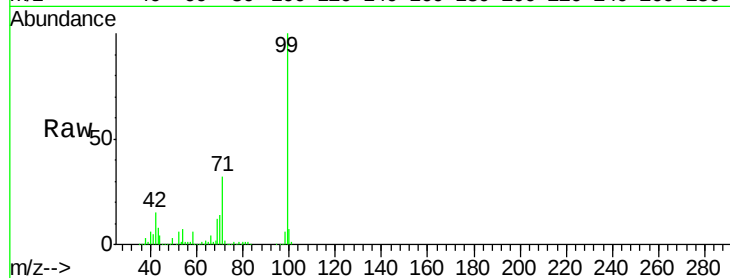


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 95.09 ng

RT: 6.41 min Scan# 374

Delta R.T. -0.01 min

Lab File: BF082501.D

Acq: 24 Oct 2015 9:09

Instrument :

BNA\_F

ClientSampleId :

BT-02(0-2)

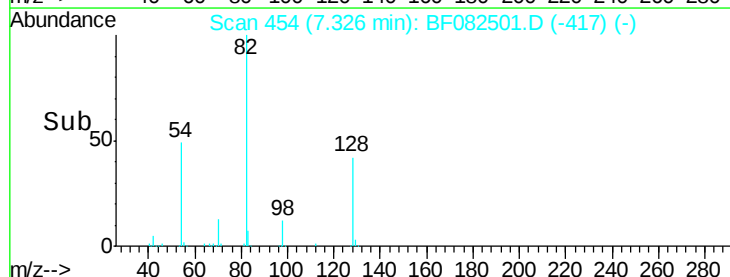
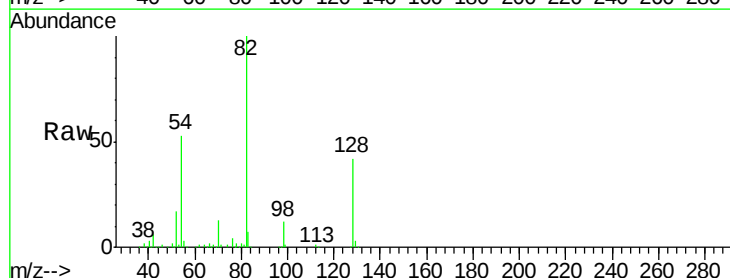
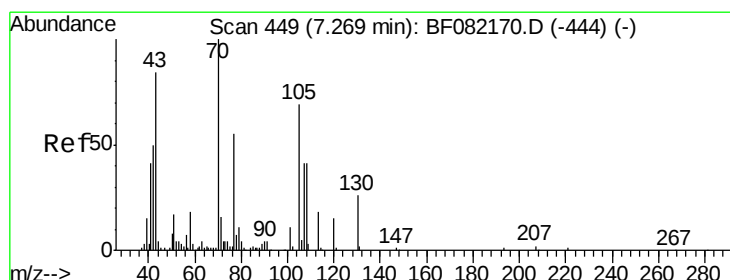
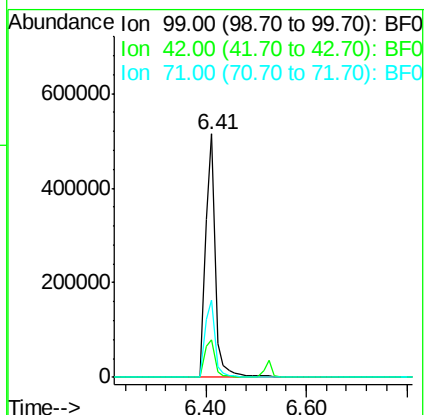
Tgt Ion: 99 Resp: 689046

Ion Ratio Lower Upper

99 100

42 15.4 13.2 19.8

71 31.8 25.6 38.4



#19

n-Nitroso-di-n-propylamine

Concen: 10.33 ng

RT: 7.33 min Scan# 454

Delta R.T. 0.13 min

Lab File: BF082501.D

Acq: 24 Oct 2015 9:09

Tgt Ion: 70 Resp: 52588

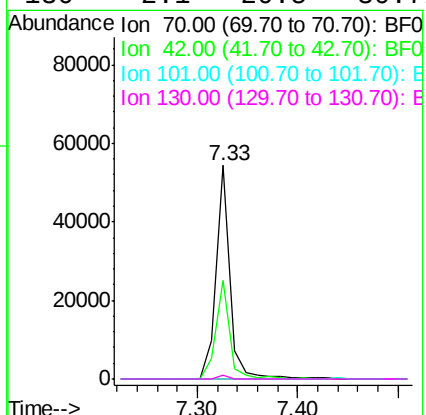
Ion Ratio Lower Upper

70 100

42 46.4 39.8 59.8

101 0.0 8.6 13.0#

130 2.1 20.5 30.7#

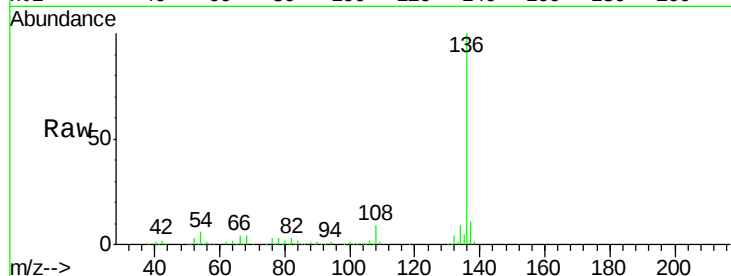




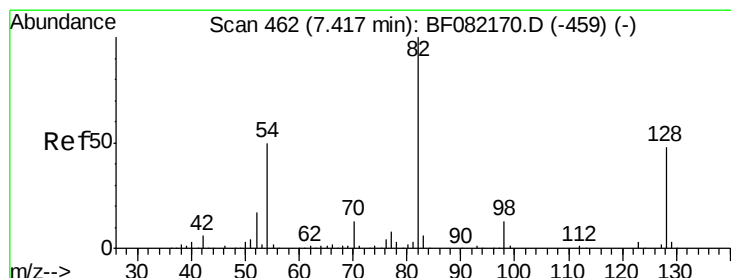
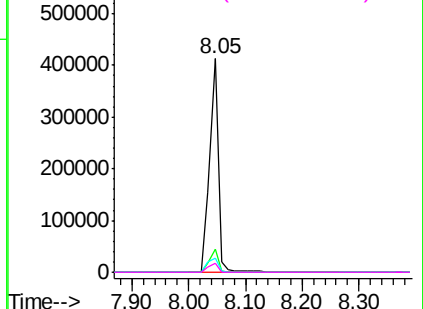
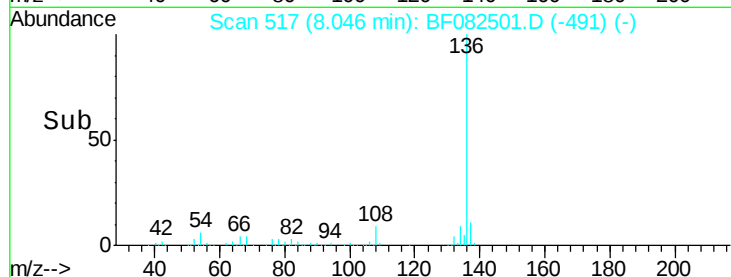
#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.05 min Scan# 517  
Delta R.T. -0.00 min  
Lab File: BF082501.D  
Acq: 24 Oct 2015 9:09

Instrument :  
BNA\_F  
ClientSampleId :  
BT-02(0-2)

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 418913 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.6  | 9.0   | 13.6   |
| 54       | 6.5   | 7.5   | 11.3#  |
| 68       | 4.3   | 4.6   | 7.0#   |

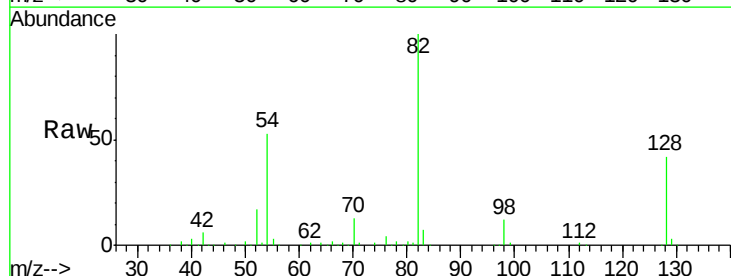


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF0  
Ion 68.00 (67.70 to 68.70): BF0

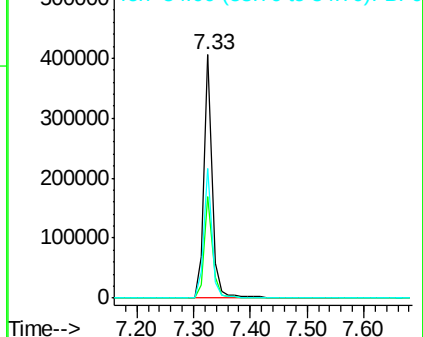
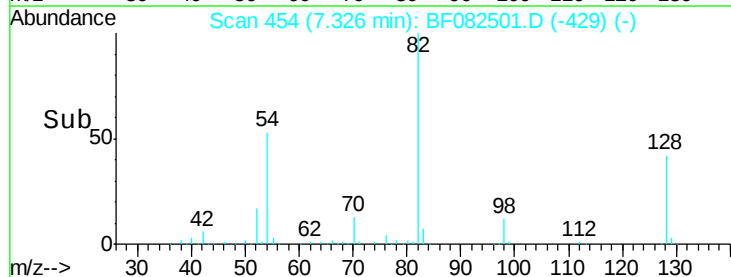


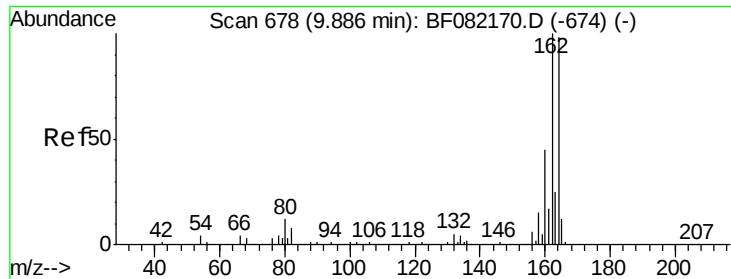
#23  
Nitrobenzene-d5  
Concen: 63.49 ng  
RT: 7.33 min Scan# 454  
Delta R.T. -0.01 min  
Lab File: BF082501.D  
Acq: 24 Oct 2015 9:09

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 396039 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 41.6  | 38.7  | 58.1   |
| 54       | 53.2  | 40.1  | 60.1   |



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: 9.79 min Scan# 670

Delta R.T. -0.01 min

Lab File: BF082501.D

Acq: 24 Oct 2015 9:09

Instrument :

BNA\_F

ClientSampleId :

BT-02(0-2)

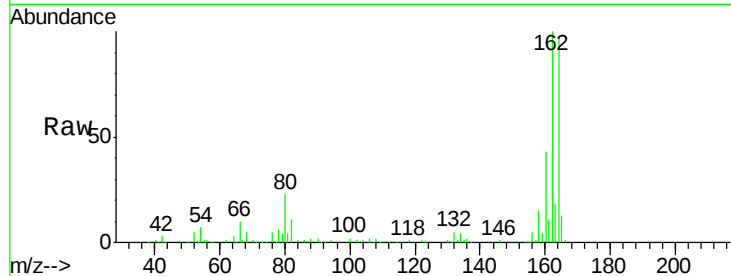
Tgt Ion:164 Resp: 194813

Ion Ratio Lower Upper

164 100

162 103.5 81.6 122.4

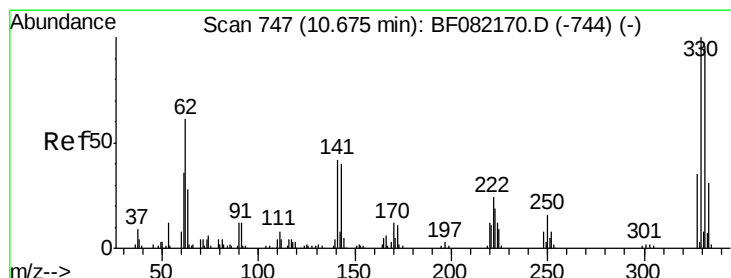
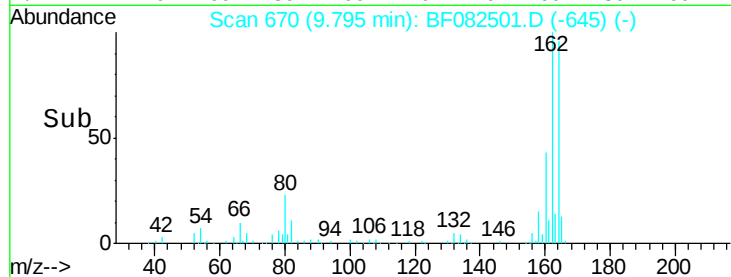
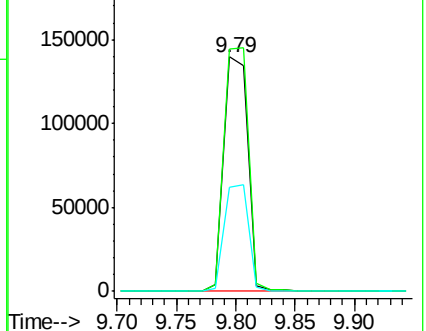
160 44.3 36.4 54.6



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: 70.95 ng

RT: 10.59 min Scan# 740

Delta R.T. -0.01 min

Lab File: BF082501.D

Acq: 24 Oct 2015 9:09

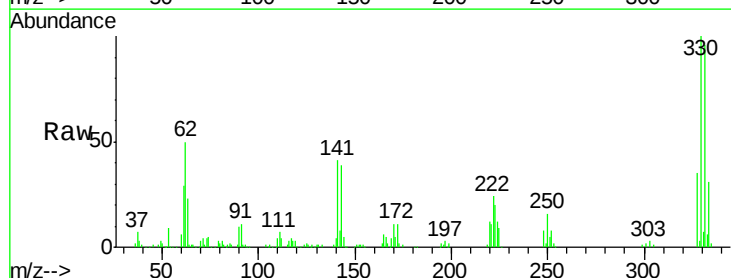
Tgt Ion:330 Resp: 129628

Ion Ratio Lower Upper

330 100

332 96.3 77.1 115.7

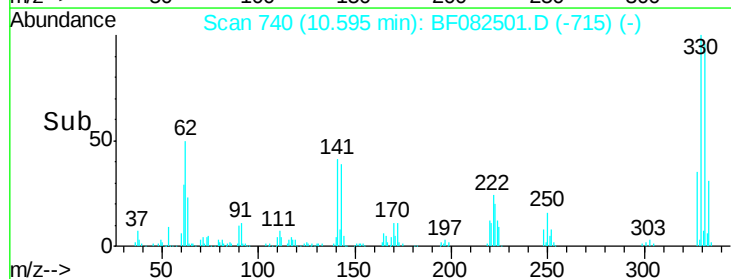
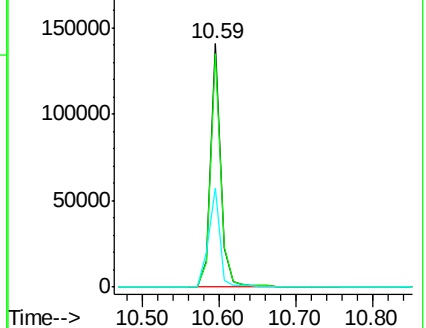
141 45.0 29.8 44.8#

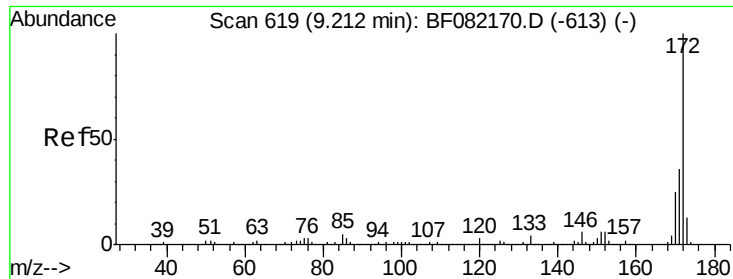


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

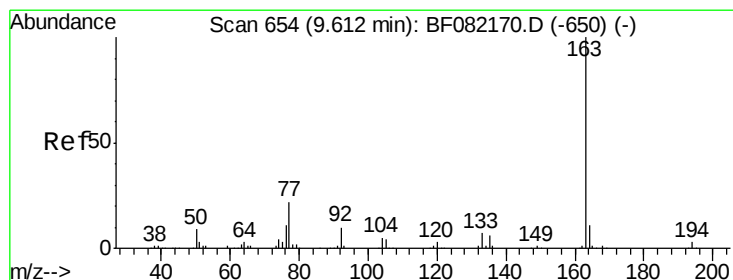
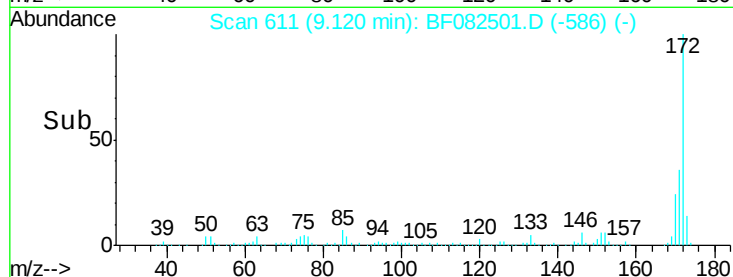
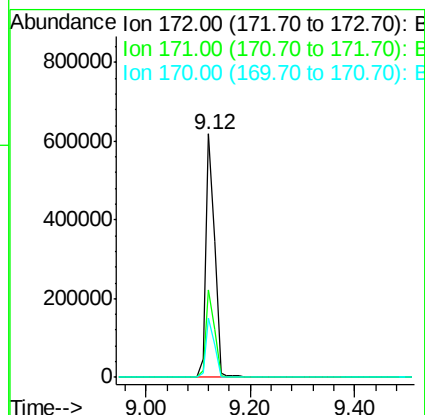
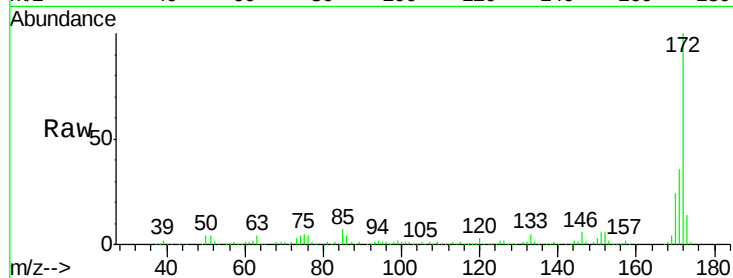




#44  
 2-Fluorobiphenyl  
 Concen: 61.40 ng  
 RT: 9.12 min Scan# 611  
 Delta R.T. -0.01 min  
 Lab File: BF082501.D  
 Acq: 24 Oct 2015 9:09

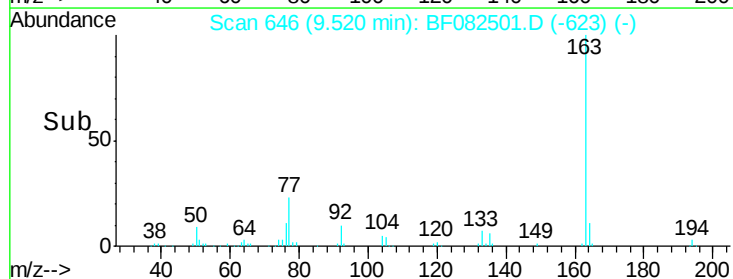
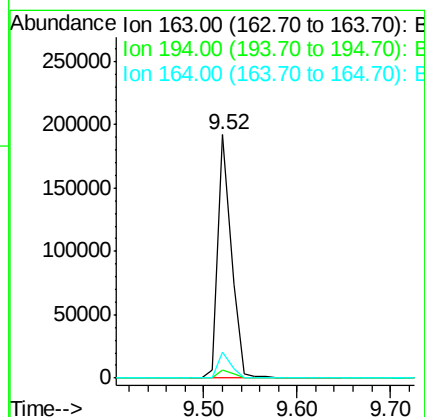
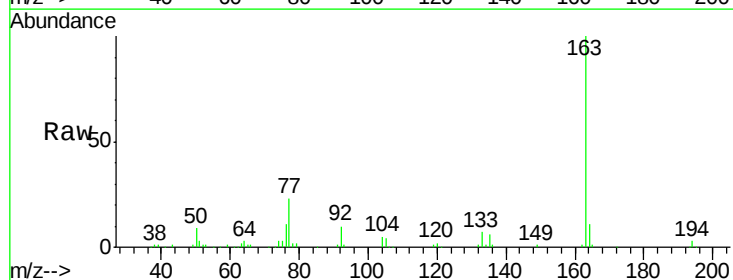
Instrument :  
 BNA\_F  
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 BT-02(0-2)

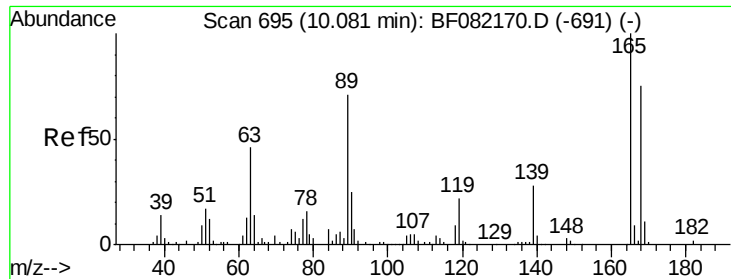
Tgt Ion:172 Resp: 721243  
 Ion Ratio Lower Upper  
 172 100  
 171 35.8 28.6 42.8  
 170 24.1 19.7 29.5



#49  
 Dimethylphthalate  
 Concen: 14.06 ng  
 RT: 9.52 min Scan# 646  
 Delta R.T. -0.03 min  
 Lab File: BF082501.D  
 Acq: 24 Oct 2015 9:09

Tgt Ion:163 Resp: 192944  
 Ion Ratio Lower Upper  
 163 100  
 194 3.4 2.6 4.0  
 164 10.5 8.5 12.7

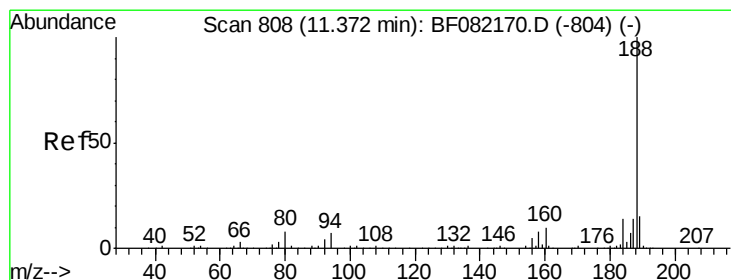
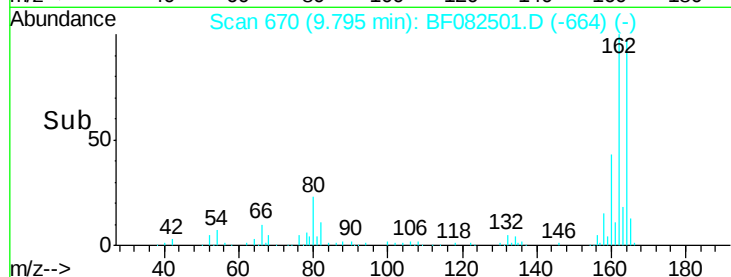
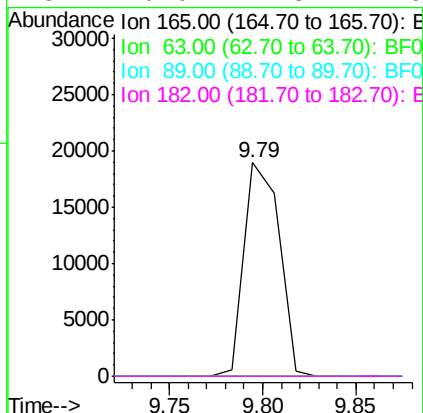
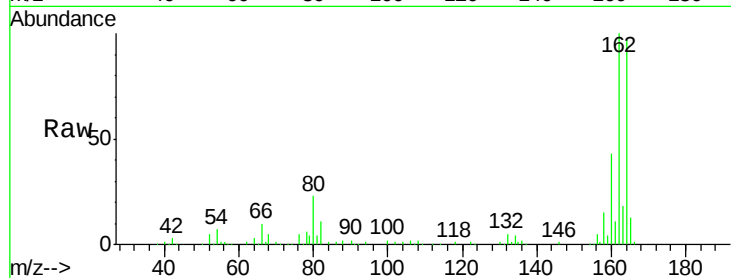




#56  
 2,4-Dinitrotoluene  
 Concen: 6.89 ng  
 RT: 9.79 min Scan# 670  
 Delta R.T. -0.23 min  
 Lab File: BF082501.D  
 Acq: 24 Oct 2015 9:09

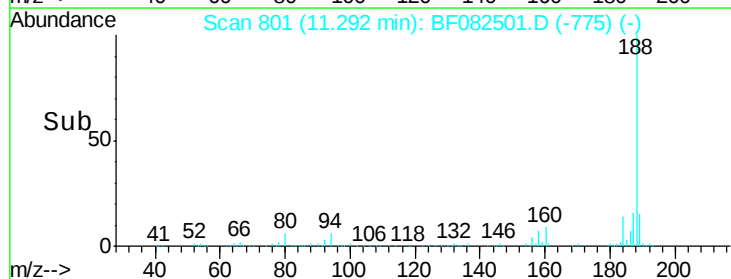
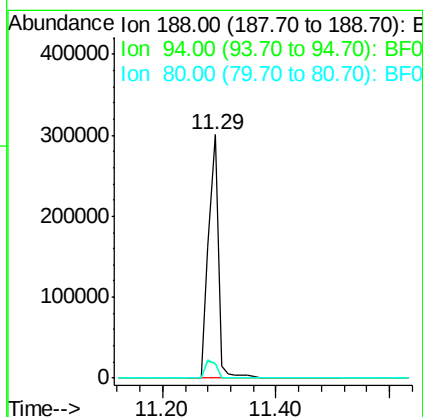
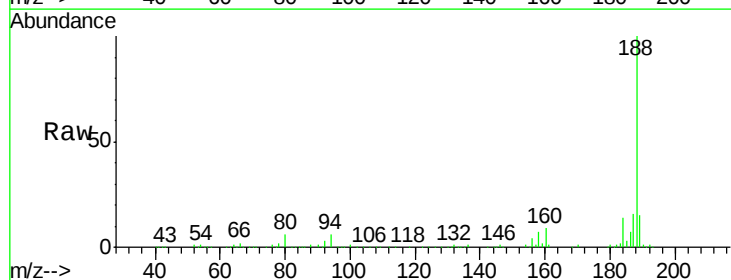
Instrument :  
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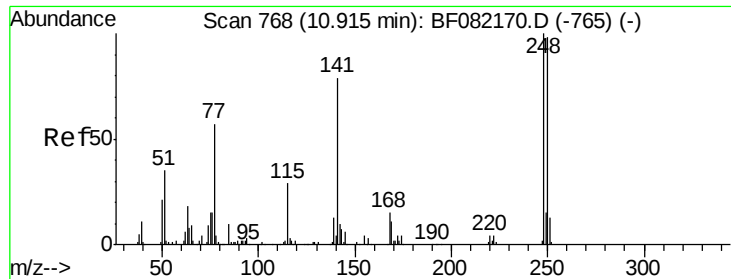
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 165   | Resp: | 24918 |
| Ion      | Ratio | Lower | Upper |
| 165      | 100   |       |       |
| 63       | 0.0   | 38.6  | 58.0# |
| 89       | 0.0   | 57.0  | 85.6# |
| 182      | 0.0   | 1.8   | 2.6#  |



#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 11.29 min Scan# 801  
 Delta R.T. -0.00 min  
 Lab File: BF082501.D  
 Acq: 24 Oct 2015 9:09

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 188   | Resp: | 343469 |
| Ion      | Ratio | Lower | Upper  |
| 188      | 100   |       |        |
| 94       | 5.7   | 5.8   | 8.6#   |
| 80       | 5.8   | 6.4   | 9.6#   |

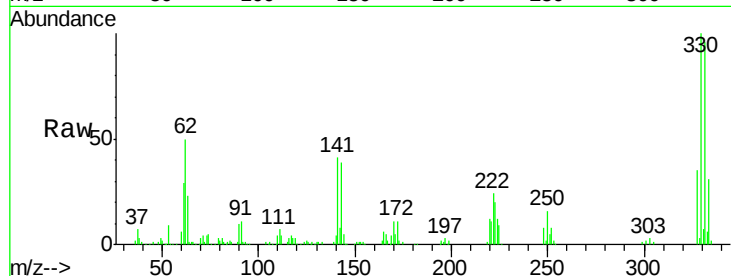




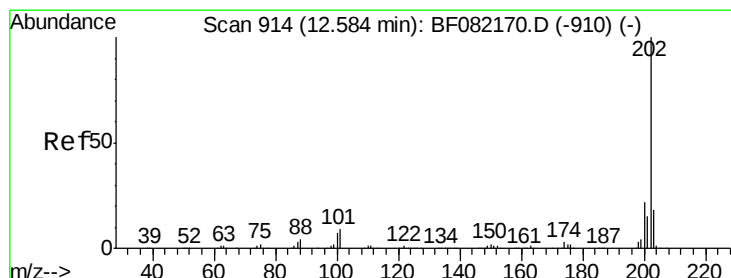
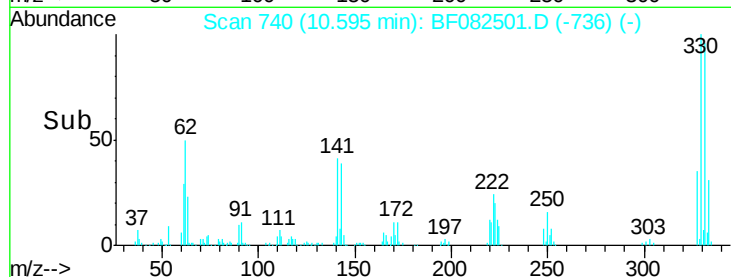
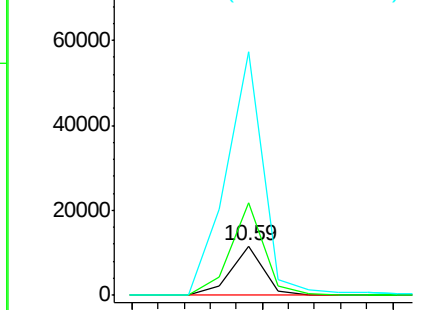
#66  
4-Bromophenyl-phenylether  
Concen: 2.96 ng  
RT: 10.59 min Scan# 740  
Delta R.T. -0.25 min  
Lab File: BF082501.D  
Acq: 24 Oct 2015 9:09

Instrument :  
BNA\_F  
ClientSampleId :  
BT-02(0-2)

Tgt Ion:248 Resp: 10175  
Ion Ratio Lower Upper  
248 100  
250 187.8 78.6 117.8#  
141 491.4 63.3 94.9#

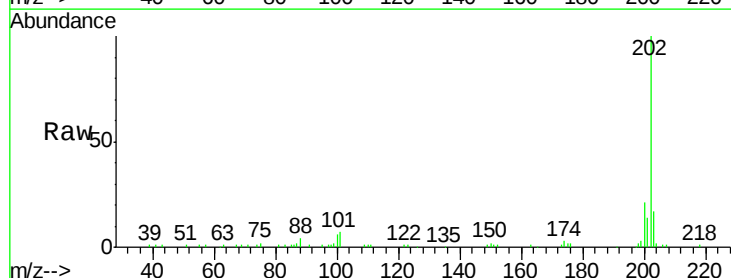


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

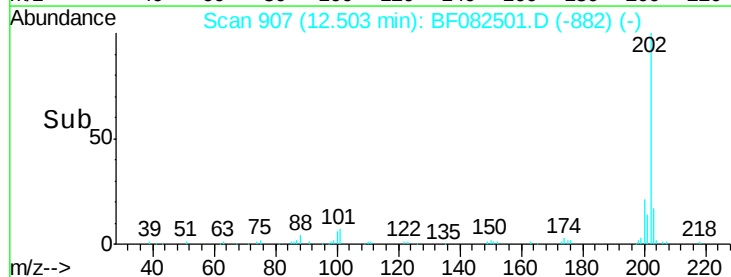
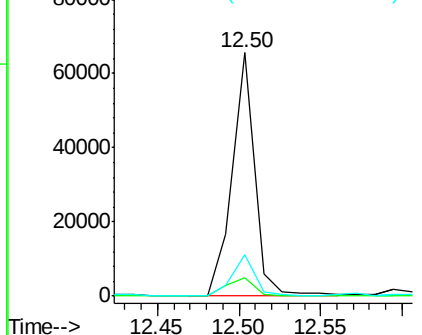


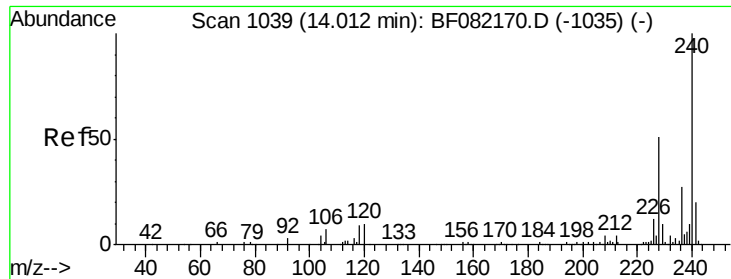
#74  
Fluoranthene  
Concen: 3.47 ng  
RT: 12.50 min Scan# 907  
Delta R.T. -0.01 min  
Lab File: BF082501.D  
Acq: 24 Oct 2015 9:09

Tgt Ion:202 Resp: 62686  
Ion Ratio Lower Upper  
202 100  
101 7.3 0.0 29.3  
203 17.1 0.0 37.8



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

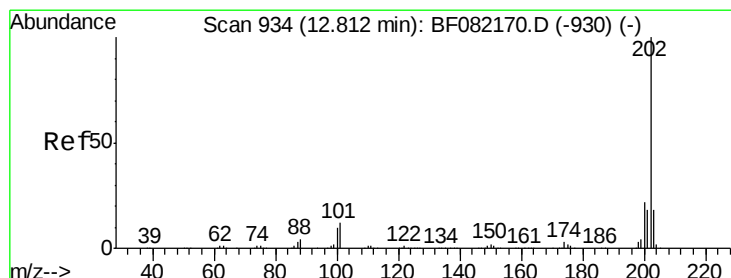
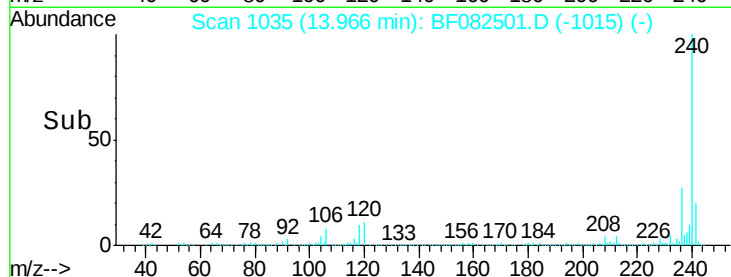
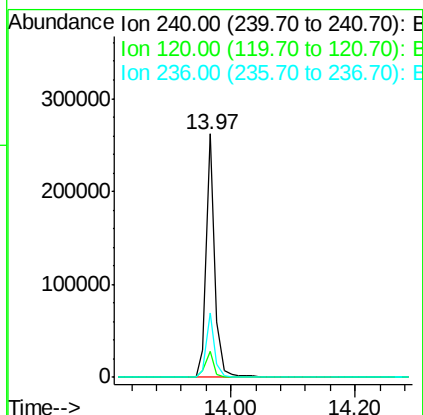
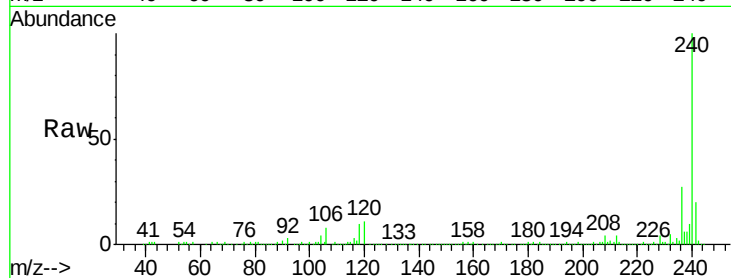




#75  
 Chrysene-d12  
 Concen: 20.00 ng  
 RT: 13.97 min Scan# 1035  
 Delta R.T. -0.07 min  
 Lab File: BF082501.D  
 Acq: 24 Oct 2015 9:09

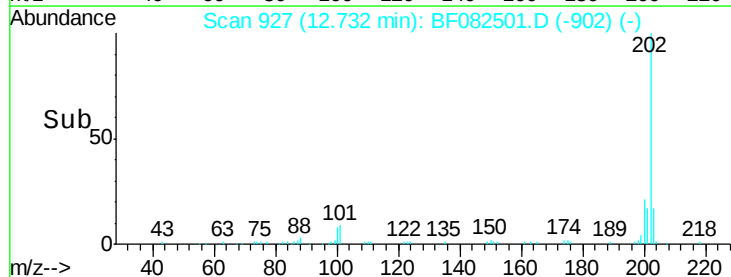
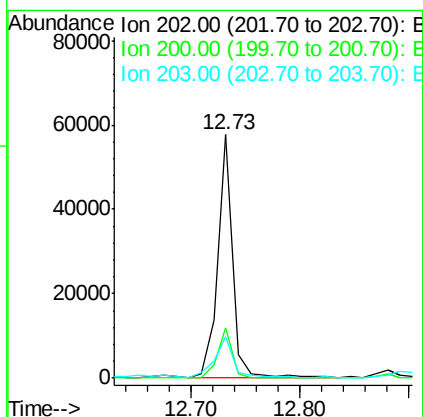
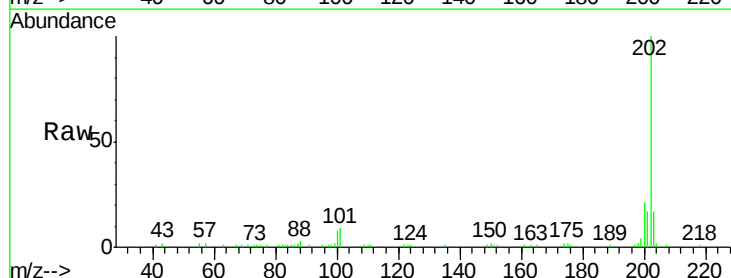
Instrument :  
 BNA\_F  
 ClientSampleId :  
 BT-02(0-2)

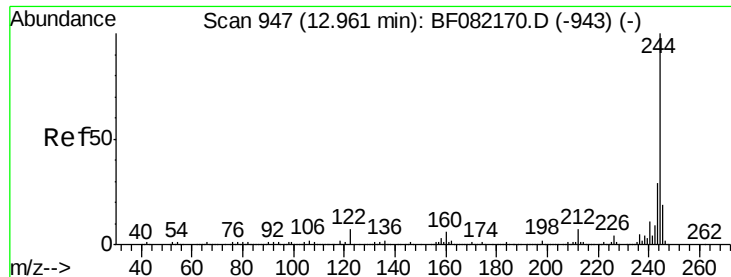
Tgt Ion:240 Resp: 256584  
 Ion Ratio Lower Upper  
 240 100  
 120 10.6 8.1 12.1  
 236 26.7 21.3 31.9



#77  
 Pyrene  
 Concen: 3.69 ng  
 RT: 12.73 min Scan# 927  
 Delta R.T. -0.01 min  
 Lab File: BF082501.D  
 Acq: 24 Oct 2015 9:09

Tgt Ion:202 Resp: 56185  
 Ion Ratio Lower Upper  
 202 100  
 200 20.9 17.9 26.9  
 203 17.2 14.5 21.7





#78

Terphenyl-d14

Concen: 55.65 ng

RT: 12.88 min Scan# 940

Delta R.T. -0.02 min

Lab File: BF082501.D

Acq: 24 Oct 2015 9:09

Instrument :

BNA\_F

ClientSampleId :

BT-02(0-2)

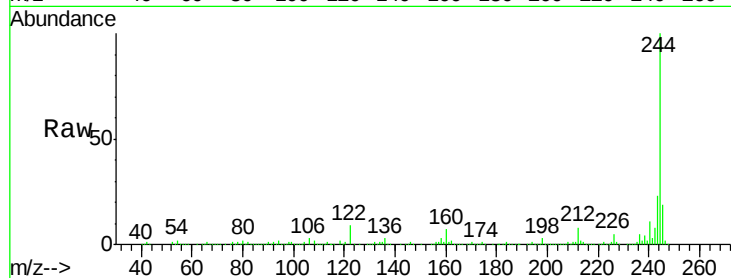
Tgt Ion:244 Resp: 538795

Ion Ratio Lower Upper

244 100

212 7.6 5.8 8.6

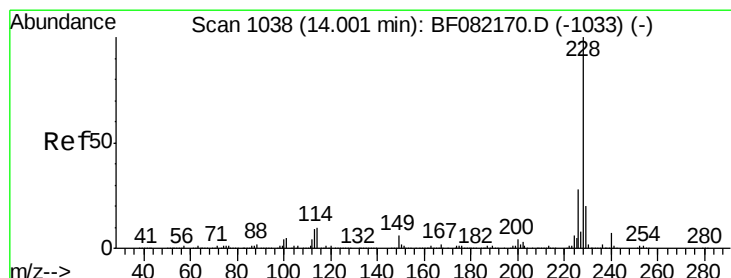
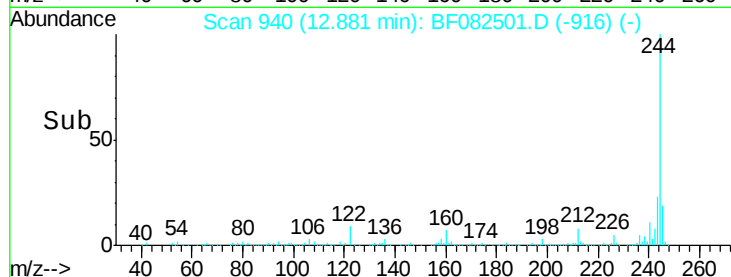
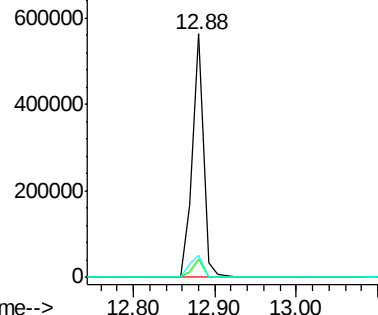
122 9.2 5.9 8.9#



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: 2.38 ng

RT: 13.96 min Scan# 1034

Delta R.T. -0.07 min

Lab File: BF082501.D

Acq: 24 Oct 2015 9:09

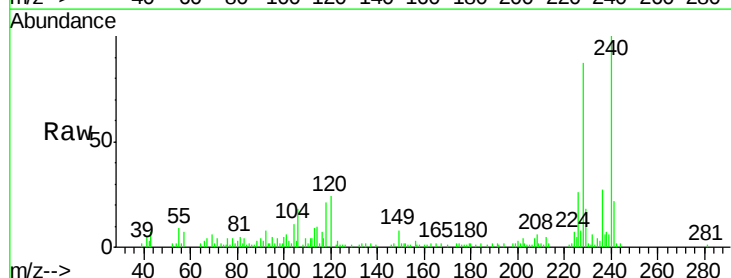
Tgt Ion:228 Resp: 31753

Ion Ratio Lower Upper

228 100

226 30.2 22.3 33.5

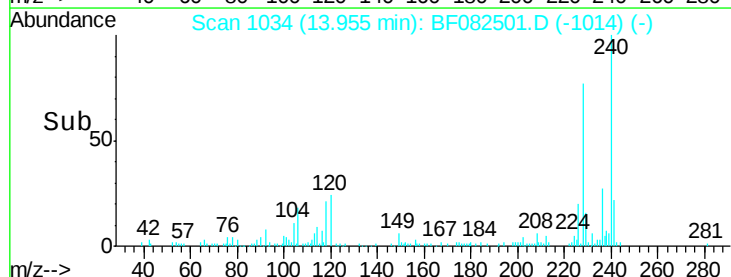
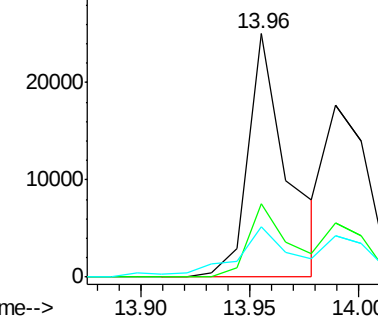
229 20.9 16.2 24.2

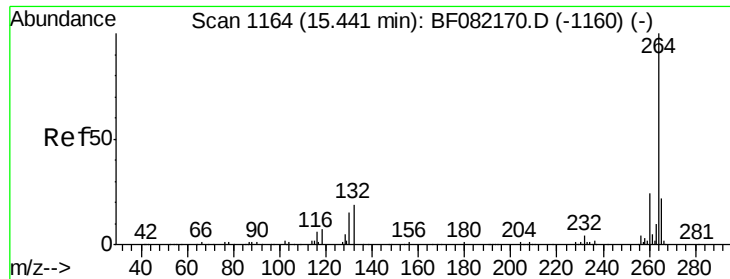


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



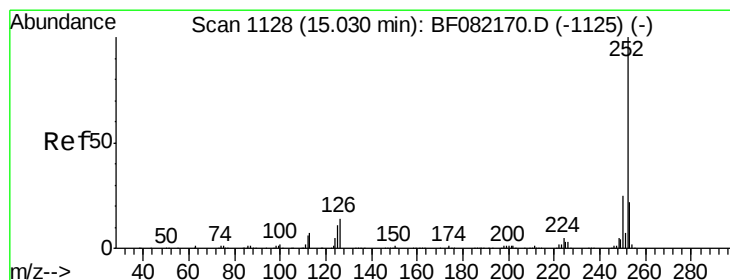
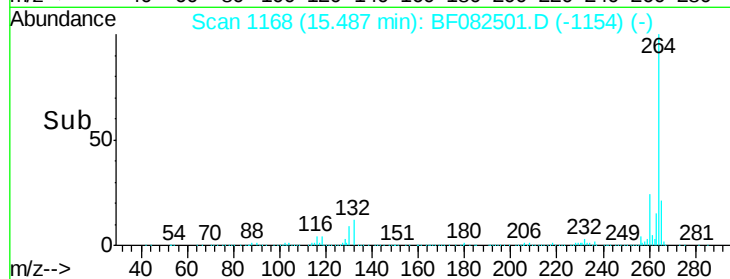
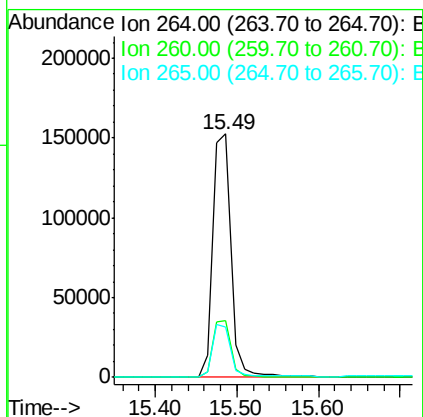
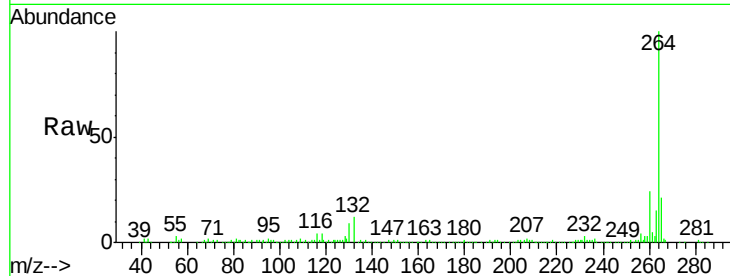


#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.49 min Scan# 1168  
Delta R.T. -0.14 min  
Lab File: BF082501.D  
Acq: 24 Oct 2015 9:09

Instrument :  
BNA\_F  
ClientSampleId :  
BT-02(0-2)

Tgt Ion: 264 Resp: 239656  

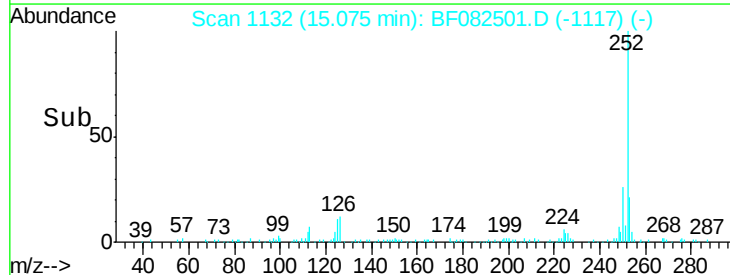
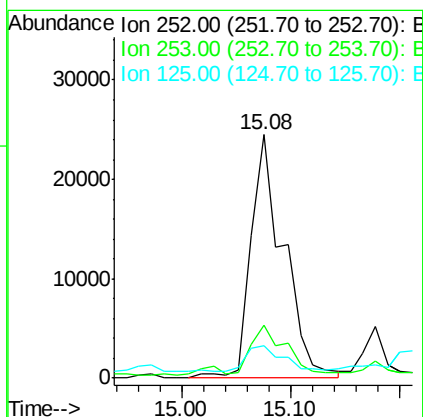
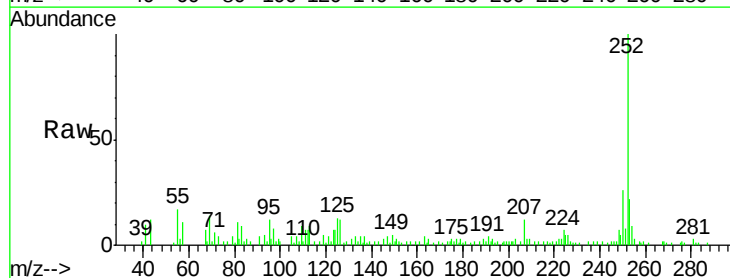
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 23.5  | 19.0  | 28.6  |
| 265 | 20.8  | 17.3  | 25.9  |

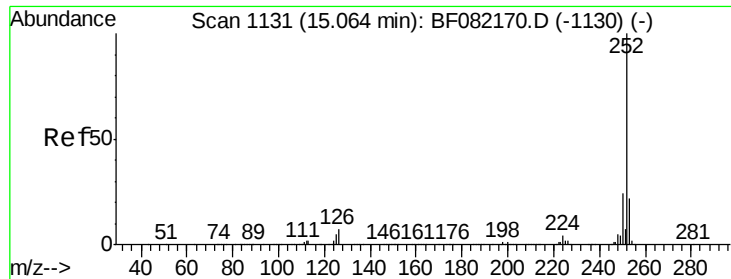


#87  
Benzo(b)fluoranthene  
Concen: 3.51 ng  
RT: 15.08 min Scan# 1132  
Delta R.T. -0.13 min  
Lab File: BF082501.D  
Acq: 24 Oct 2015 9:09

Tgt Ion: 252 Resp: 51112  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 21.9  | 18.0  | 27.0  |
| 125 | 13.4  | 8.6   | 12.8  |





#88

Benzo(k)fluoranthene

Concen: 4.17 ng

RT: 15.08 min Scan# 1132

Delta R.T. -0.16 min

Lab File: BF082501.D

Acq: 24 Oct 2015 9:09

Instrument :

BNA\_F

ClientSampleId :

BT-02(0-2)

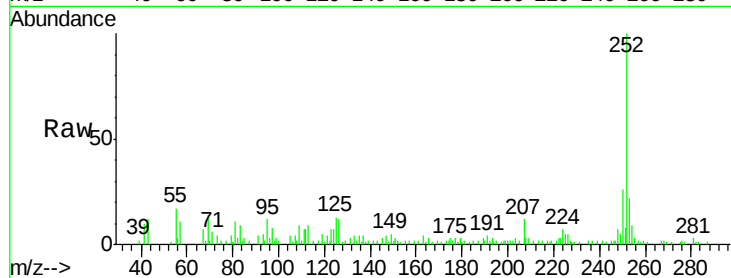
Tgt Ion: 252 Resp: 51112

Ion Ratio Lower Upper

252 100

253 21.9 17.8 26.6

125 13.4 6.7 10.1#



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

