

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF122816\  
 Data File : BF092003.D  
 Acq On : 28 Dec 2016 19:20  
 Operator : UM/SJ  
 Sample : H6245-06  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PZ-8

Quant Time: Dec 29 00:40:54 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF122116.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Dec 28 17:32:10 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.70  | 152  | 225247   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 7.98  | 136  | 889850   | 20.00 | ng    | -0.01    |
| 38) Acenaphthene-d10      | 9.74  | 164  | 505035   | 20.00 | ng    | -0.01    |
| 63) Phenanthrene-d10      | 11.22 | 188  | 773592   | 20.00 | ng    | -0.01    |
| 75) Chrysene-d12          | 13.86 | 240  | 589751   | 20.00 | ng    | -0.01    |
| 86) Perylene-d12          | 15.24 | 264  | 413646   | 20.00 | ng    | -0.01    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.32  | 112  | 870650   | 64.54  | ng    | 0.00     |
| 7) Phenol-d6                | 6.36  | 99   | 687875   | 41.77  | ng    | -0.02    |
| 23) Nitrobenzene-d5         | 7.28  | 82   | 1626063  | 101.61 | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol    | 10.54 | 330  | 600575   | 143.69 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.07  | 172  | 2326819  | 96.08  | ng    | -0.01    |
| 78) Terphenyl-d14           | 12.82 | 244  | 2297579  | 94.48  | ng    | 0.00     |

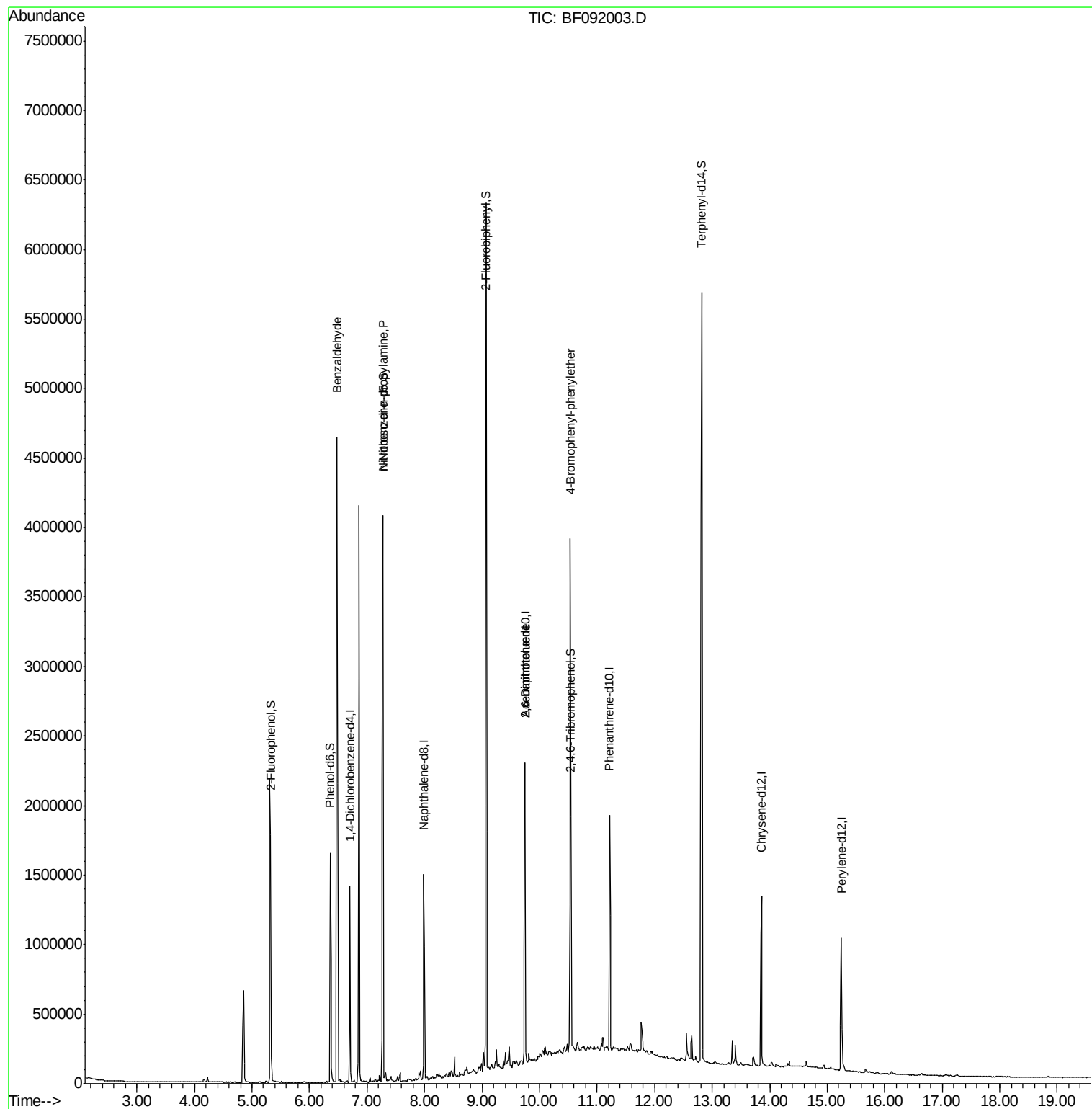
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 9) Benzaldehyde                | 6.48  | 77   | 33918    | 2.53      | ng    | # 65   |
| 19) n-Nitroso-di-n-propylamine | 7.28  | 70   | 220765   | 20.15     | ng    | # 76   |
| 37) 2-Methylnaphthalene        | 8.70  | 142  | 337      | Below Cal |       | # 81   |
| 50) 2,6-Dinitrotoluene         | 9.74  | 165  | 64800    | 9.17      | ng    | # 31   |
| 56) 2,4-Dinitrotoluene         | 9.74  | 165  | 65263    | 7.35      | ng    | # 20   |
| 66) 4-Bromophenyl-phenylether  | 10.53 | 248  | 35021    | 4.35      | ng    | # 1    |
| 71) Anthracene                 | 11.30 | 178  | 1619     | Below Cal |       | # 28   |
| 73) Di-n-butylphthalate        | 11.80 | 149  | 11648    | Below Cal |       | # 77   |
| 74) Fluoranthene               | 12.43 | 202  | 597      | Below Cal |       | # 1    |

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

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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF122116.M  
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QLast Update : Wed Dec 28 17:32:10 2016  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.70 min Scan# 404

Delta R.T. -0.00 min

Lab File: BF092003.D

Acq: 28 Dec 2016 19:20

Instrument :

BNA\_F

ClientSampleId :

PZ-8

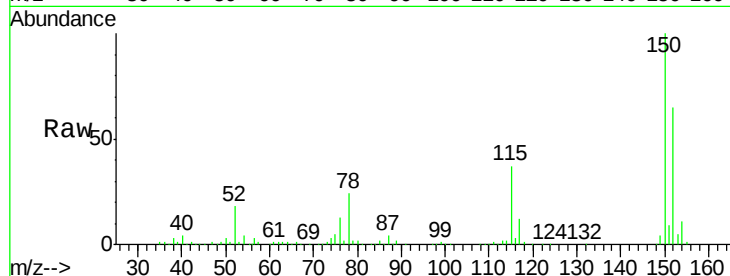
Tgt Ion:152 Resp: 225247

Ion Ratio Lower Upper

152 100

150 153.0 124.9 187.3

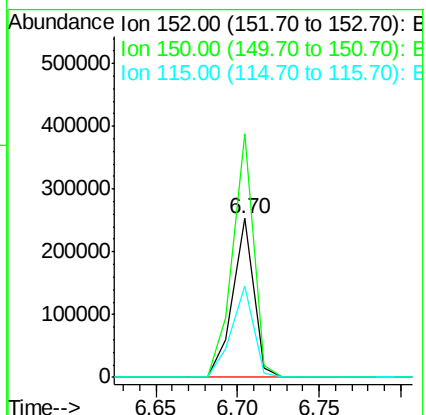
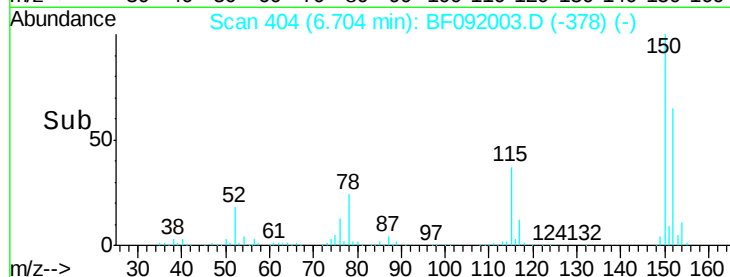
115 57.3 46.0 69.0



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: 64.54 ng

RT: 5.32 min Scan# 283

Delta R.T. -0.00 min

Lab File: BF092003.D

Acq: 28 Dec 2016 19:20

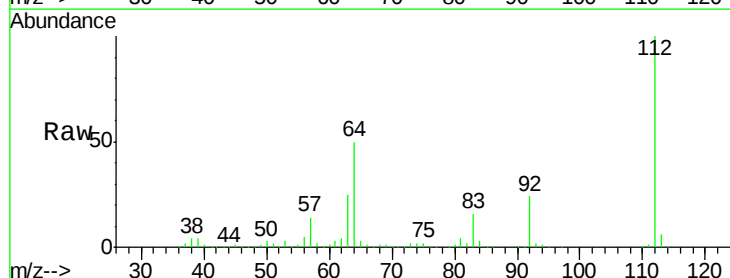
Tgt Ion:112 Resp: 870650

Ion Ratio Lower Upper

112 100

64 49.8 46.1 69.1

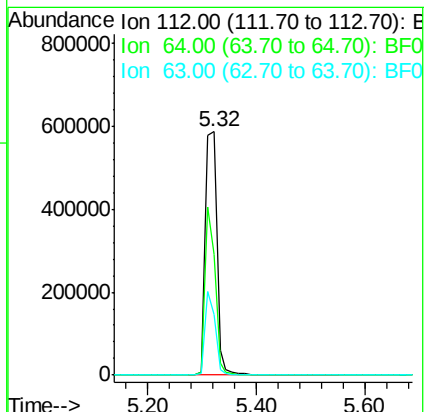
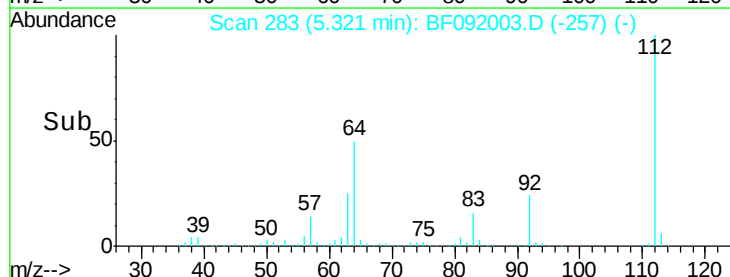
63 24.8 23.8 35.6



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: 41.77 ng

RT: 6.36 min Scan# 374

Delta R.T. -0.02 min

Lab File: BF092003.D

Acq: 28 Dec 2016 19:20

Instrument :

BNA\_F

ClientSampleId :

PZ-8

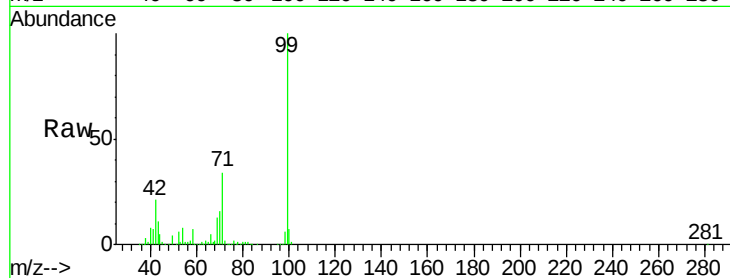
Tgt Ion: 99 Resp: 687875

Ion Ratio Lower Upper

99 100

42 20.7 15.6 23.4

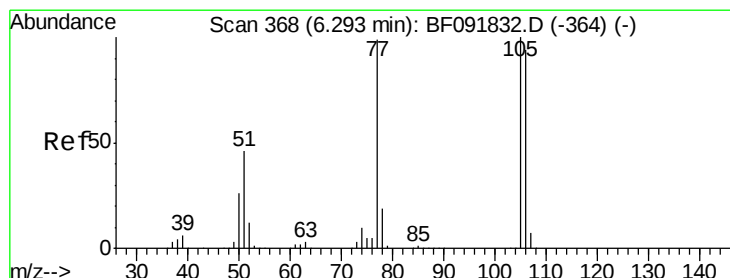
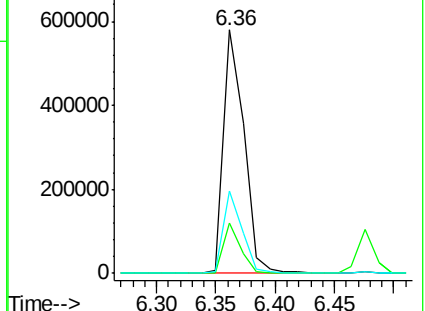
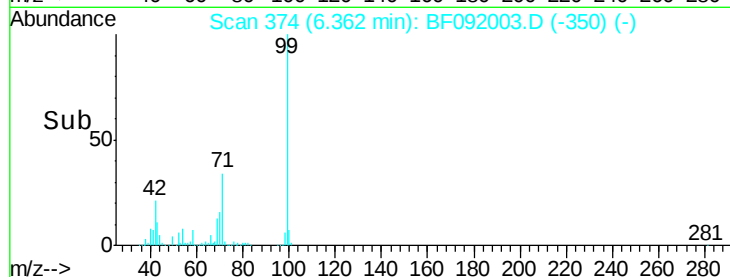
71 34.1 27.5 41.3



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



#9

Benzaldehyde

Concen: 2.53 ng

RT: 6.48 min Scan# 384

Delta R.T. 0.23 min

Lab File: BF092003.D

Acq: 28 Dec 2016 19:20

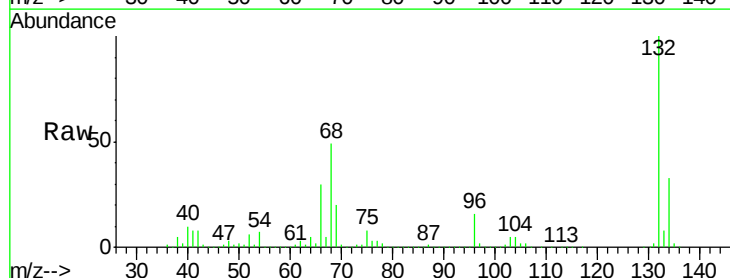
Tgt Ion: 77 Resp: 33918

Ion Ratio Lower Upper

77 100

105 71.8 83.9 123.9#

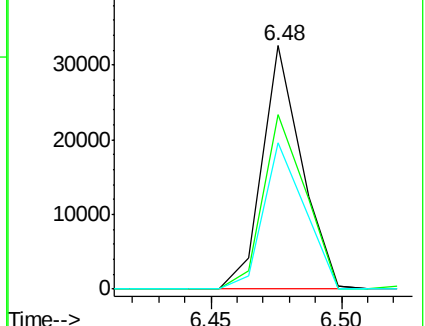
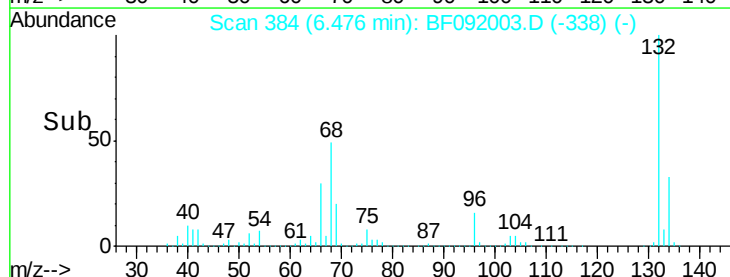
106 59.8 77.6 117.6#

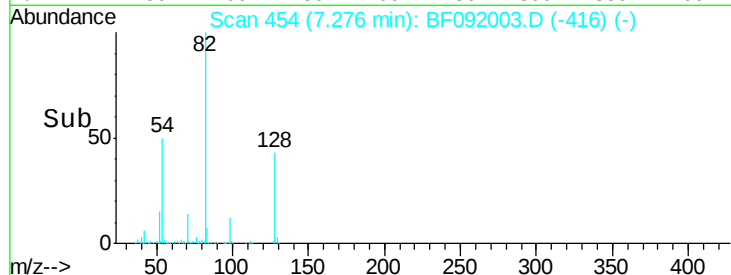
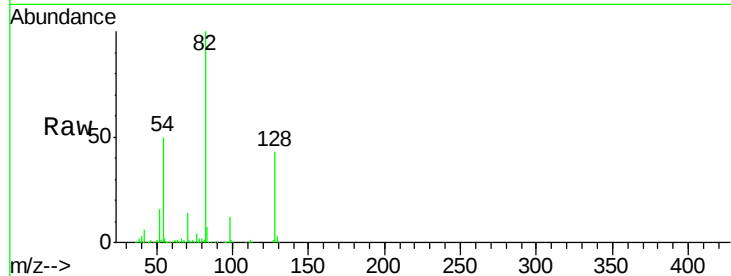


Abundance Ion 77.00 (76.70 to 77.70): BF0

Ion 105.00 (104.70 to 105.70): E

Ion 106.00 (105.70 to 106.70): E

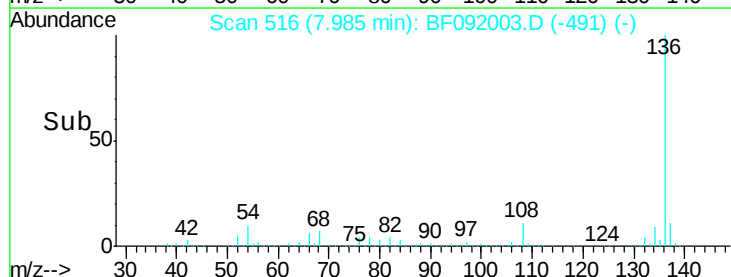
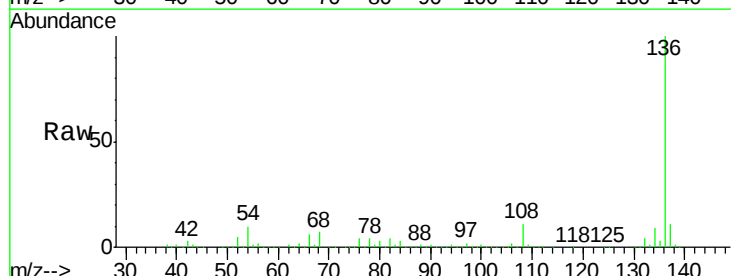
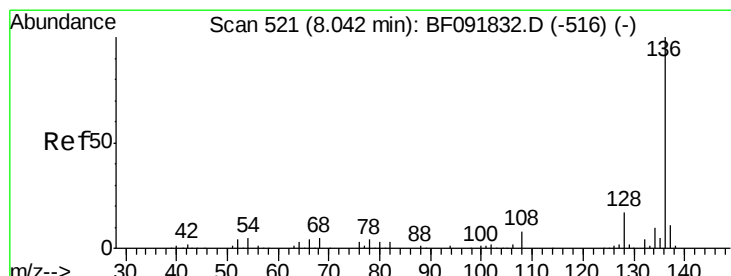
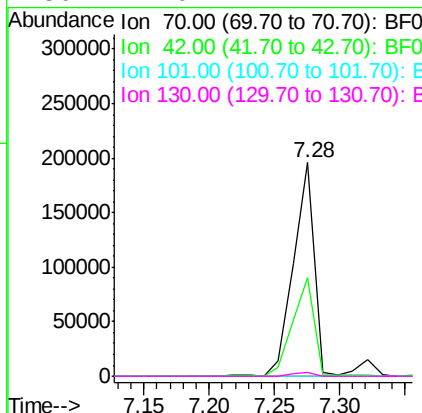




#19  
n-Nitroso-di-n-propylamine  
Concen: 20.15 ng  
RT: 7.28 min Scan# 454  
Delta R.T. 0.14 min  
Lab File: BF092003.D  
Acq: 28 Dec 2016 19:20

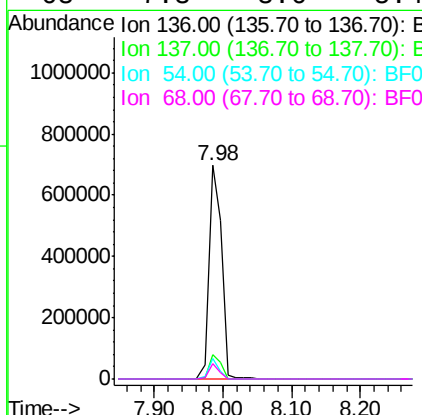
Instrument :  
BNA\_F  
ClientSampleId :  
PZ-8

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 70    | Resp: | 220765 |
| Ion      | Ratio | Lower | Upper  |
| 70       | 100   |       |        |
| 42       | 46.0  | 49.4  | 74.0#  |
| 101      | 0.0   | 7.4   | 11.2#  |
| 130      | 2.0   | 14.2  | 21.4#  |



#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 7.98 min Scan# 516  
Delta R.T. -0.01 min  
Lab File: BF092003.D  
Acq: 28 Dec 2016 19:20

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 889850 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.3  | 8.4   | 12.6   |
| 54       | 9.7   | 4.5   | 6.7#   |
| 68       | 7.3   | 3.6   | 5.4#   |

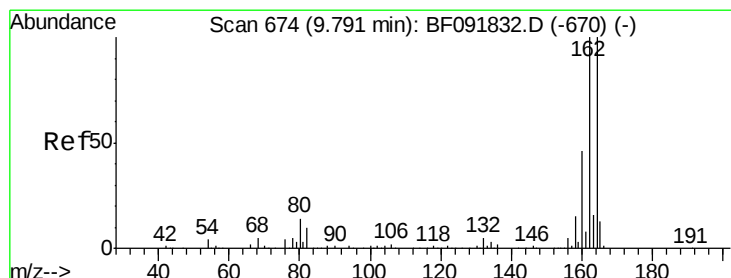
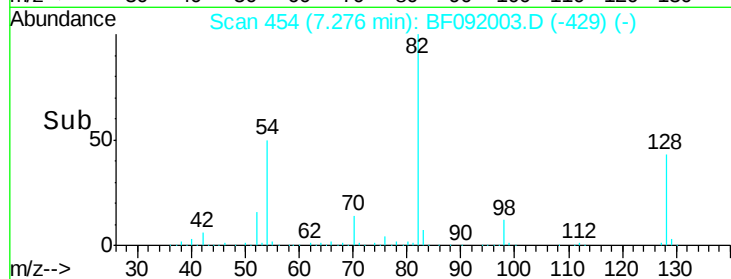
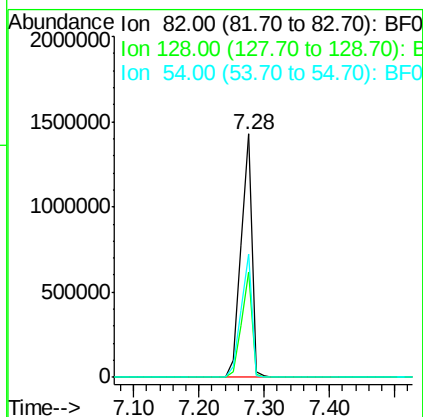
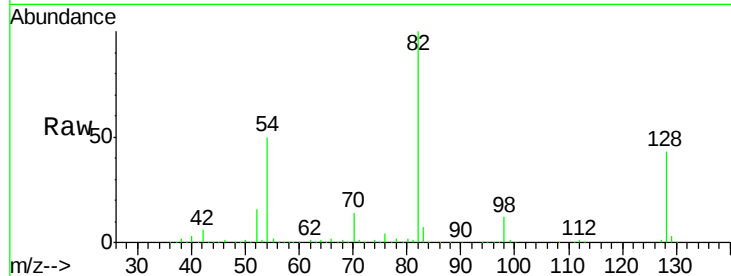




#23  
 Nitrobenzene-d5  
 Concen: 101.61 ng  
 RT: 7.28 min Scan# 454  
 Delta R.T. -0.01 min  
 Lab File: BF092003.D  
 Acq: 28 Dec 2016 19:20

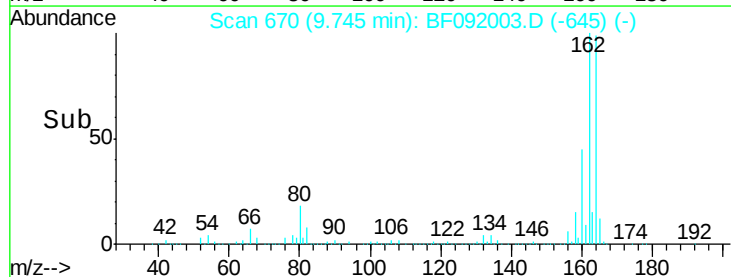
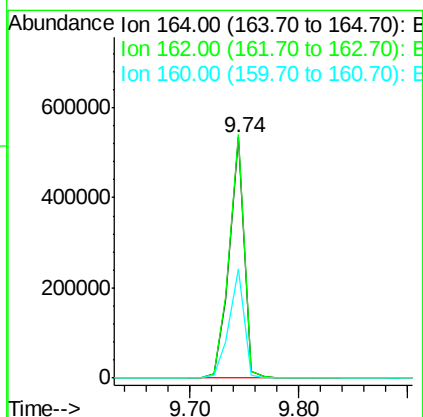
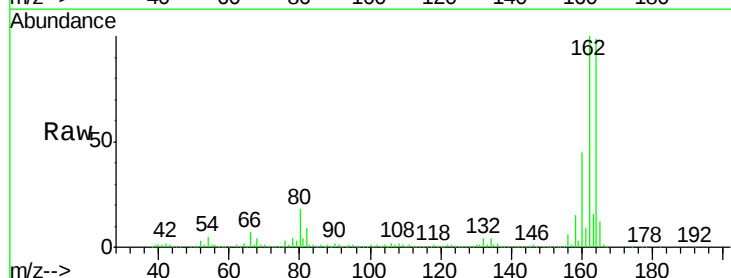
Instrument :  
 BNA\_F  
 ClientSampled :  
 PZ-8

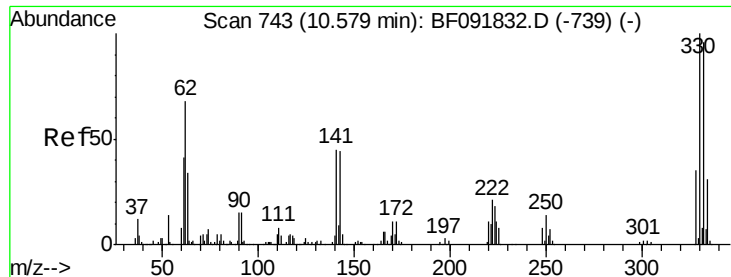
Tgt Ion: 82 Resp: 1626063  
 Ion Ratio Lower Upper  
 82 100  
 128 43.4 34.6 52.0  
 54 50.4 39.5 59.3



#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.74 min Scan# 670  
 Delta R.T. -0.01 min  
 Lab File: BF092003.D  
 Acq: 28 Dec 2016 19:20

Tgt Ion: 164 Resp: 505035  
 Ion Ratio Lower Upper  
 164 100  
 162 101.2 80.2 120.2  
 160 45.5 36.9 55.3

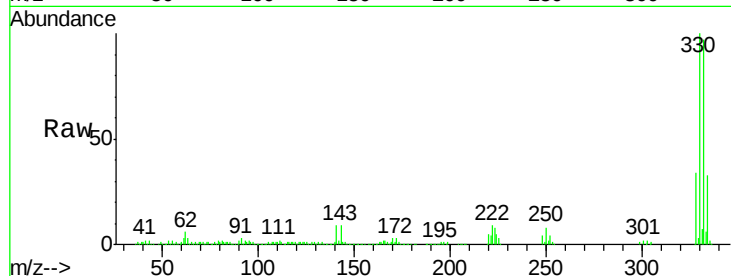




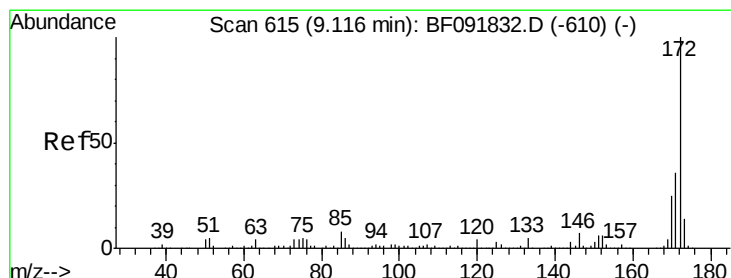
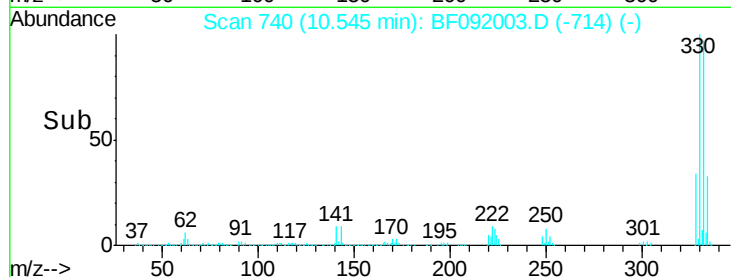
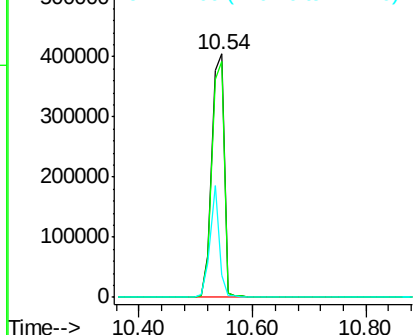
#41  
 2,4,6-Tribromophenol  
 Concen: 143.69 ng  
 RT: 10.54 min Scan# 740  
 Delta R.T. -0.00 min  
 Lab File: BF092003.D  
 Acq: 28 Dec 2016 19:20

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PZ-8

Tgt Ion:330 Resp: 600575  
 Ion Ratio Lower Upper  
 330 100  
 332 96.2 77.4 116.2  
 141 32.9 34.1 51.1#

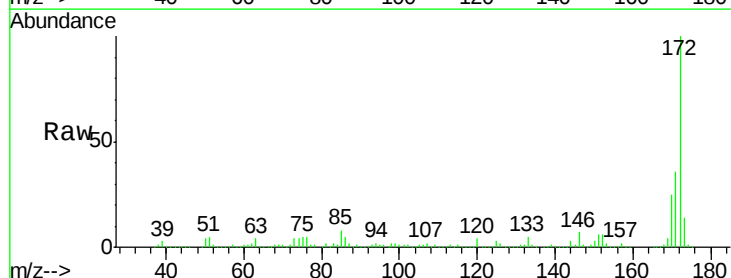


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

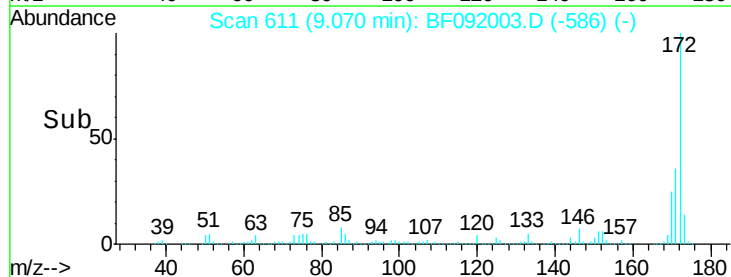
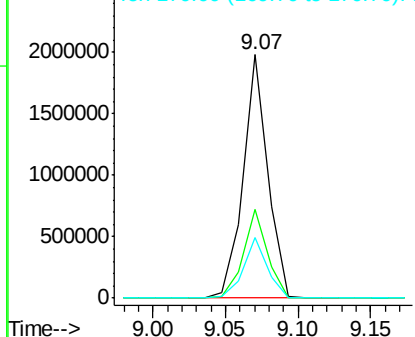


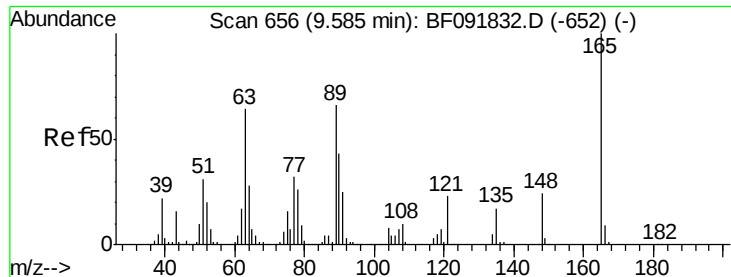
#44  
 2-Fluorobiphenyl  
 Concen: 96.08 ng  
 RT: 9.07 min Scan# 611  
 Delta R.T. -0.01 min  
 Lab File: BF092003.D  
 Acq: 28 Dec 2016 19:20

Tgt Ion:172 Resp: 2326819  
 Ion Ratio Lower Upper  
 172 100  
 171 36.3 29.4 44.0  
 170 24.8 20.2 30.4



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

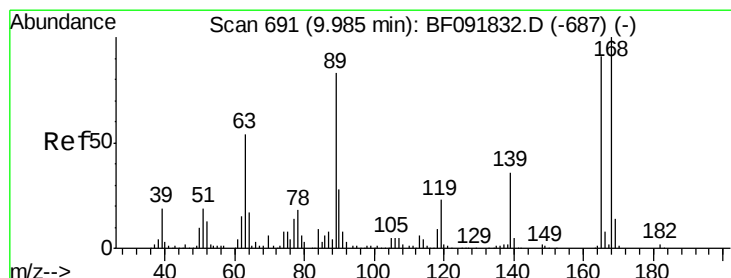
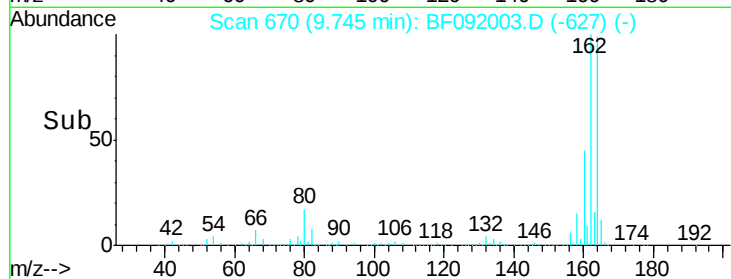
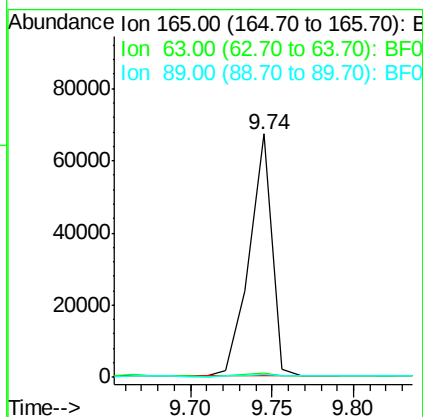
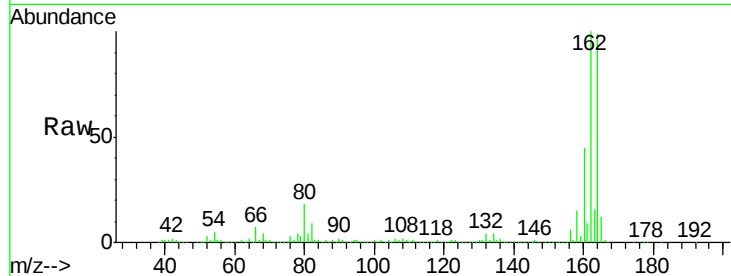




#50  
 2,6-Dinitrotoluene  
 Concen: 9.17 ng  
 RT: 9.74 min Scan# 670  
 Delta R.T. 0.19 min  
 Lab File: BF092003.D  
 Acq: 28 Dec 2016 19:20

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PZ-8

Tgt Ion:165 Resp: 64800  
 Ion Ratio Lower Upper  
 165 100  
 63 1.6 36.2 54.4#  
 89 1.3 40.2 60.4#



#56  
 2,4-Dinitrotoluene  
 Concen: 7.35 ng  
 RT: 9.74 min Scan# 670  
 Delta R.T. -0.21 min  
 Lab File: BF092003.D  
 Acq: 28 Dec 2016 19:20

Tgt Ion:165 Resp: 65263  
 Ion Ratio Lower Upper  
 165 100  
 63 1.6 40.2 60.4#  
 89 1.3 62.5 93.7#  
 182 0.5 1.8 2.8#

