

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF092915\  
 Data File : BF081908.D  
 Acq On : 30 Sep 2015 10:39  
 Operator : UM/IZ  
 Sample : G3799-02  
 Misc :  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 S8-0484

Quant Time: Sep 30 12:15:52 2015  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF092815.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Sep 28 18:10:42 2015  
 Response via : Initial Calibration

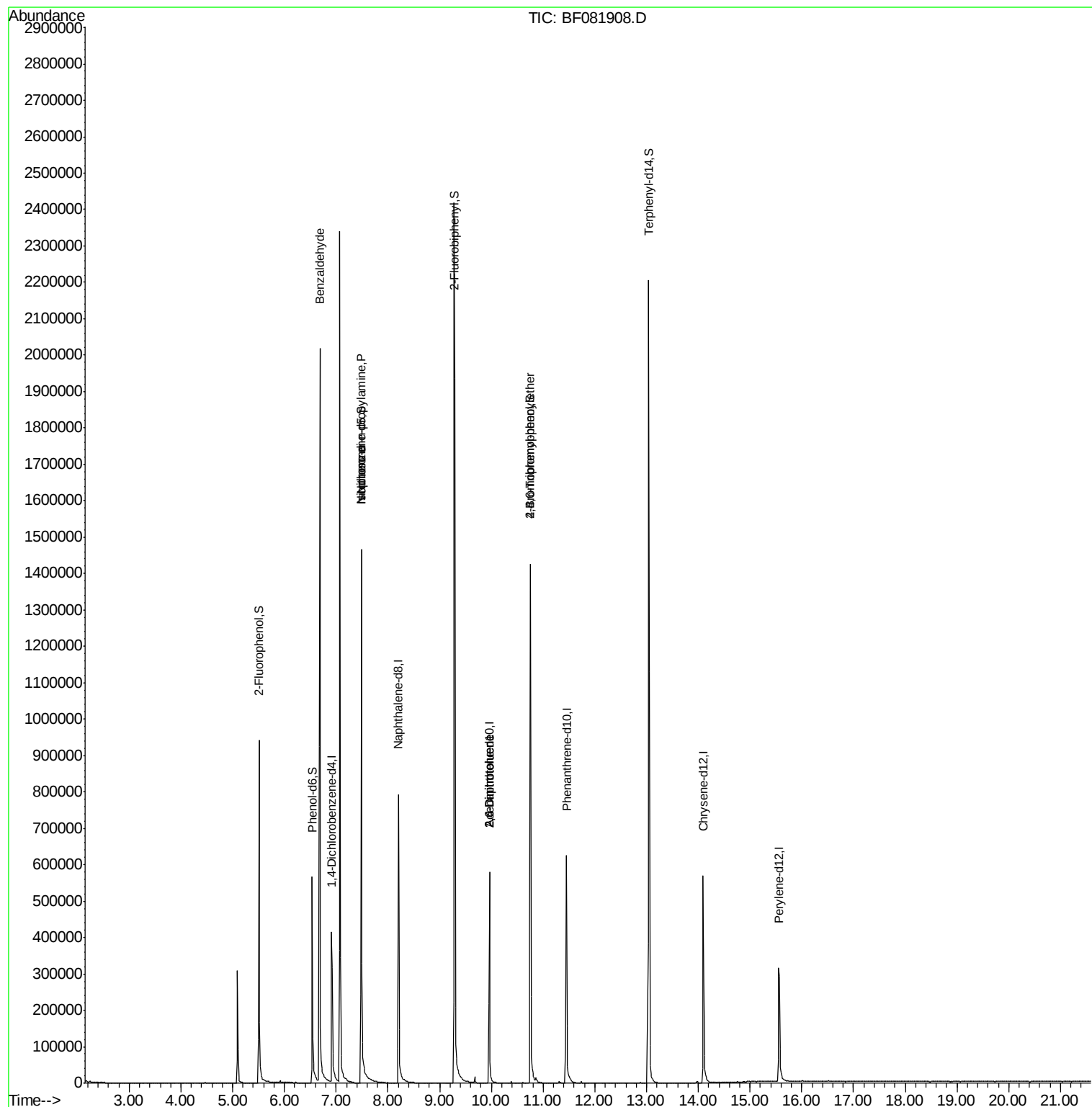
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.91  | 152  | 114484   | 20.00     | ng    | -0.02    |
| 21) Naphthalene-d8             | 8.21  | 136  | 452851   | 20.00     | ng    | -0.01    |
| 38) Acenaphthene-d10           | 9.97  | 164  | 142663   | 20.00     | ng    | -0.01    |
| 63) Phenanthrene-d10           | 11.45 | 188  | 307889   | 20.00     | ng    | -0.01    |
| 75) Chrysene-d12               | 14.09 | 240  | 296907   | 20.00     | ng    | -0.02    |
| 86) Perylene-d12               | 15.56 | 264  | 249848   | 20.00     | ng    | -0.02    |
| System Monitoring Compounds    |       |      |          |           |       |          |
| 5) 2-Fluorophenol              | 5.51  | 112  | 288866   | 45.80     | ng    | -0.01    |
| 7) Phenol-d6                   | 6.54  | 99   | 253871   | 31.99     | ng    | -0.02    |
| 23) Nitrobenzene-d5            | 7.49  | 82   | 605033   | 89.06     | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol       | 10.75 | 330  | 204963   | 141.86    | ng    | -0.01    |
| 44) 2-Fluorobiphenyl           | 9.28  | 172  | 1297807  | 209.08    | ng    | -0.02    |
| 78) Terphenyl-d14              | 13.04 | 244  | 948012   | 113.31    | ng    | -0.01    |
| Target Compounds               |       |      |          |           |       |          |
| 9) Benzaldehyde                | 6.69  | 77   | 14368    | 2.76      | ng    | # 63     |
| 19) n-Nitroso-di-n-propylamine | 7.49  | 70   | 75709    | 15.70     | ng    | # 58     |
| 25) Isophorone                 | 7.49  | 82   | 542943   | 40.32     | ng    | # 58     |
| 50) 2,6-Dinitrotoluene         | 9.97  | 165  | 17190    | 8.04      | ng    | # 37     |
| 56) 2,4-Dinitrotoluene         | 9.97  | 165  | 17188    | 6.31      | ng    | # 31     |
| 57) Fluorene                   | 10.75 | 166  | 7292     | Below Cal | #     | 80       |
| 66) 4-Bromophenyl-phenylether  | 10.75 | 248  | 13450    | 4.33      | ng    | # 1      |
| 73) Di-n-butylphthalate        | 12.01 | 149  | 490      | Below Cal | #     | 78       |

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

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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF092815.M  
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QLast Update : Mon Sep 28 18:10:42 2015  
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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.91 min Scan# 418

Delta R.T. -0.02 min

Lab File: BF081908.D

Acq: 30 Sep 2015 10:39

Instrument :

BNA\_F

ClientSampleId :

S8-0484

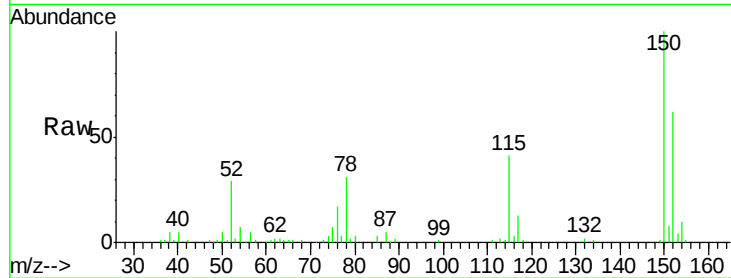
Tgt Ion:152 Resp: 114484

Ion Ratio Lower Upper

152 100

150 161.7 124.7 187.1

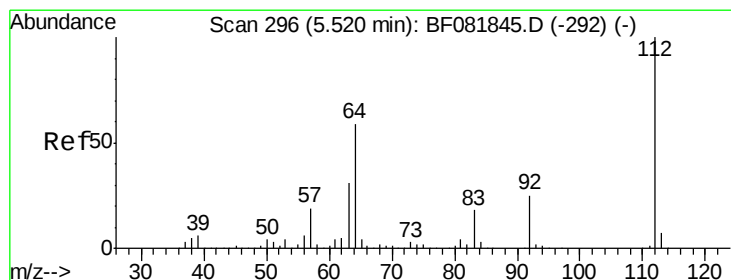
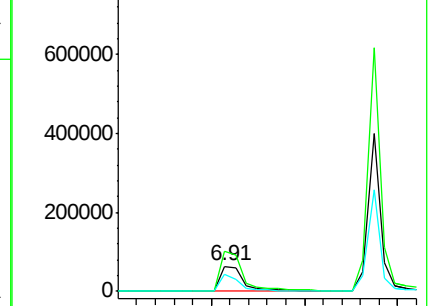
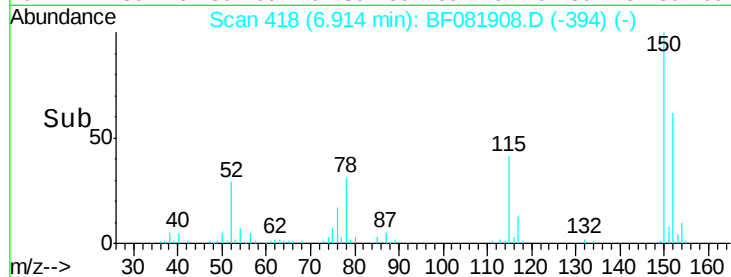
115 66.2 39.0 58.4#



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: 45.80 ng

RT: 5.51 min Scan# 295

Delta R.T. -0.01 min

Lab File: BF081908.D

Acq: 30 Sep 2015 10:39

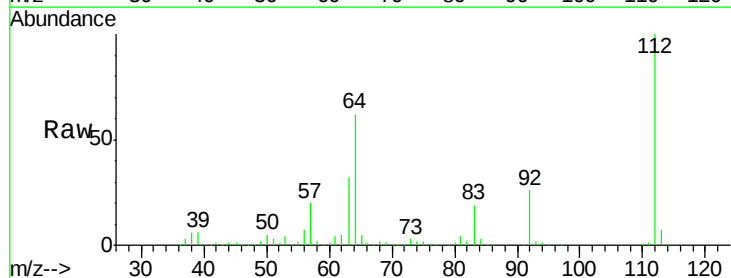
Tgt Ion:112 Resp: 288866

Ion Ratio Lower Upper

112 100

64 61.8 39.7 59.5#

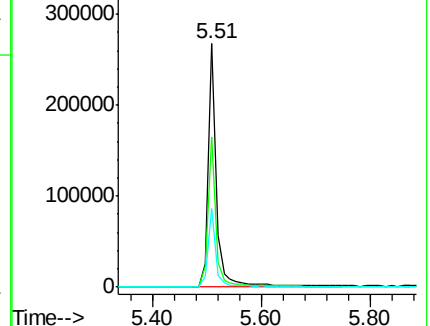
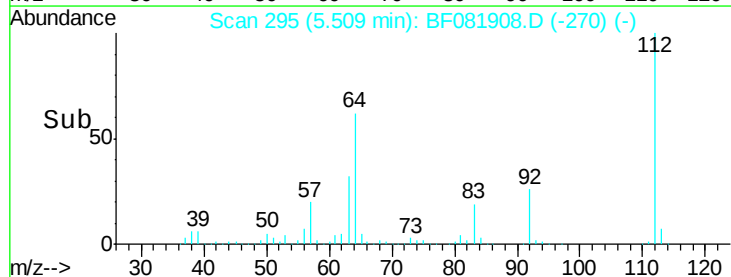
63 32.0 17.4 26.0#

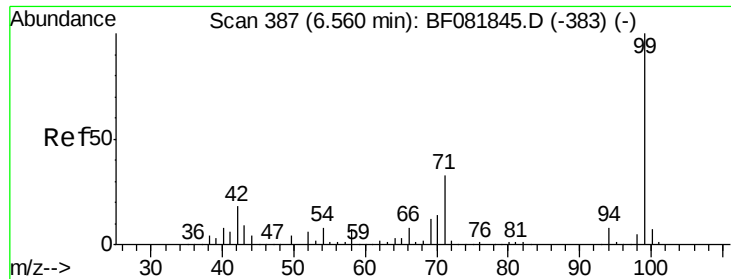


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 31.99 ng

RT: 6.54 min Scan# 385

Delta R.T. -0.02 min

Lab File: BF081908.D

Acq: 30 Sep 2015 10:39

Instrument :

BNA\_F

ClientSampleId :

S8-0484

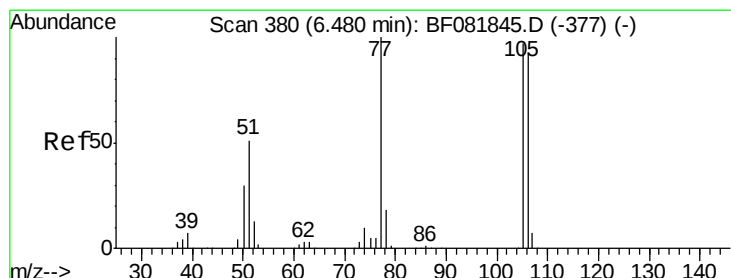
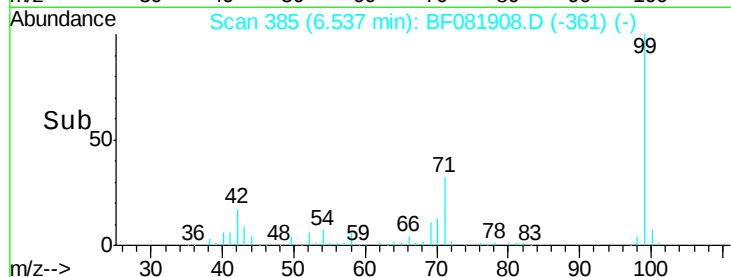
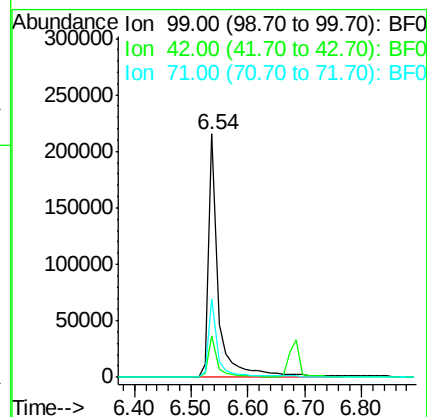
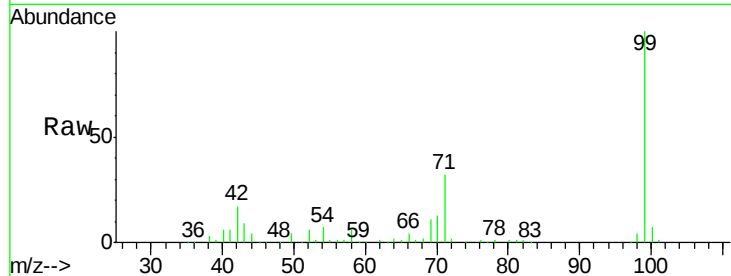
Tgt Ion: 99 Resp: 253871

Ion Ratio Lower Upper

99 100

42 16.8 13.7 20.5

71 32.2 14.2 21.2#



#9

Benzaldehyde

Concen: 2.76 ng

RT: 6.69 min Scan# 398

Delta R.T. 0.21 min

Lab File: BF081908.D

Acq: 30 Sep 2015 10:39

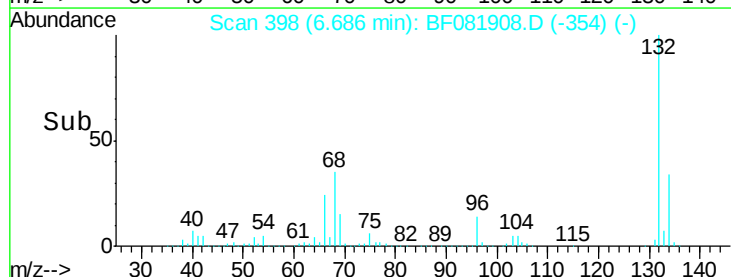
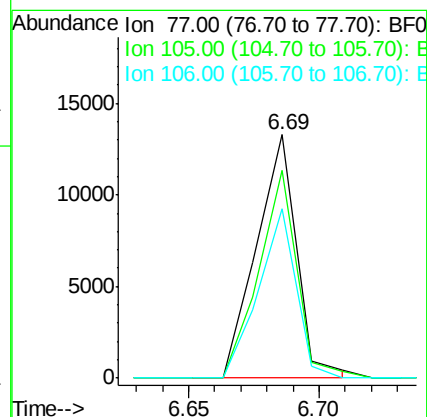
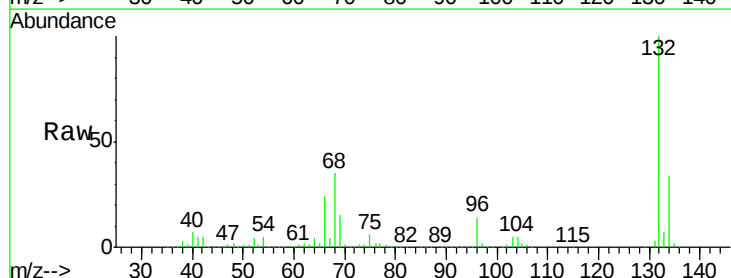
Tgt Ion: 77 Resp: 14368

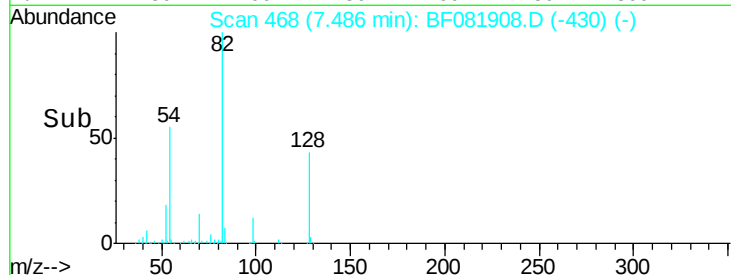
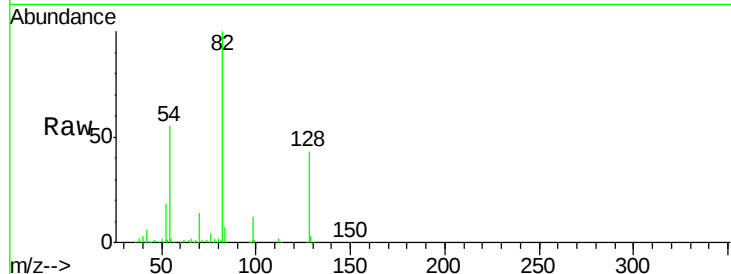
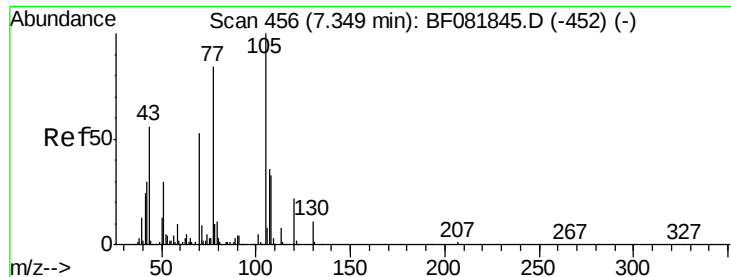
Ion Ratio Lower Upper

77 100

105 85.2 91.6 131.6#

106 69.4 102.6 142.6#

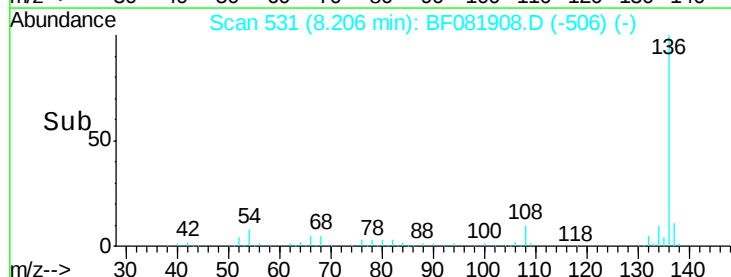
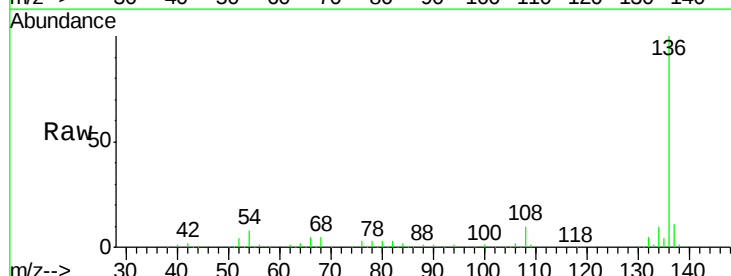
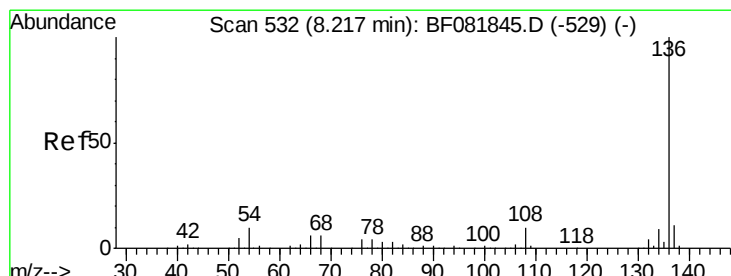
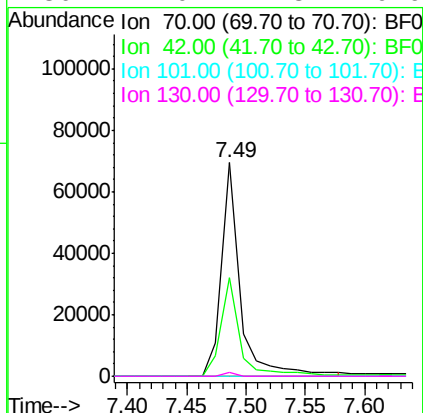




#19  
n-Nitroso-di-n-propylamine  
Concen: 15.70 ng  
RT: 7.49 min Scan# 468  
Delta R.T. 0.14 min  
Lab File: BF081908.D  
Acq: 30 Sep 2015 10:39

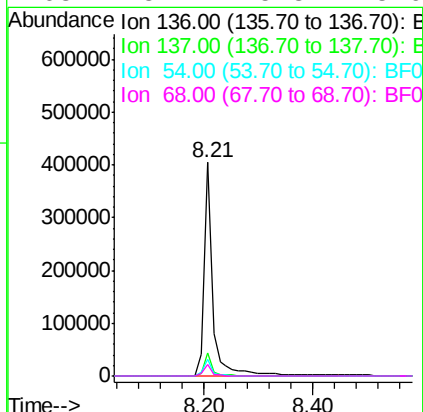
Instrument :  
BNA\_F  
ClientSampleId :  
S8-0484

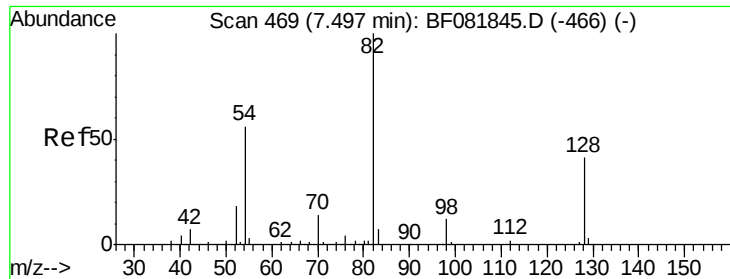
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 70    | Resp: | 75709 |
| Ion      | Ratio | Lower | Upper |
| 70       | 100   |       |       |
| 42       | 46.0  | 63.8  | 95.6# |
| 101      | 0.0   | 9.2   | 13.8# |
| 130      | 2.0   | 27.3  | 40.9# |



#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.21 min Scan# 531  
Delta R.T. -0.01 min  
Lab File: BF081908.D  
Acq: 30 Sep 2015 10:39

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 452851 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.0  | 9.0   | 13.6   |
| 54       | 7.8   | 8.2   | 12.2#  |
| 68       | 5.4   | 5.8   | 8.6#   |

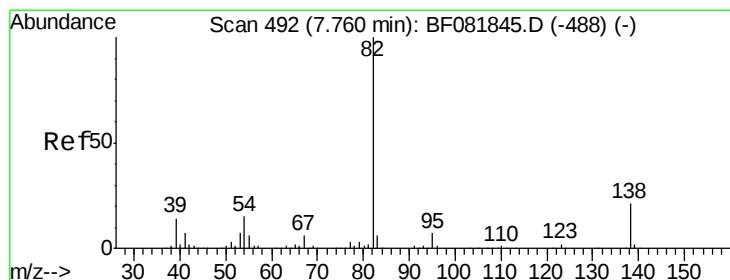
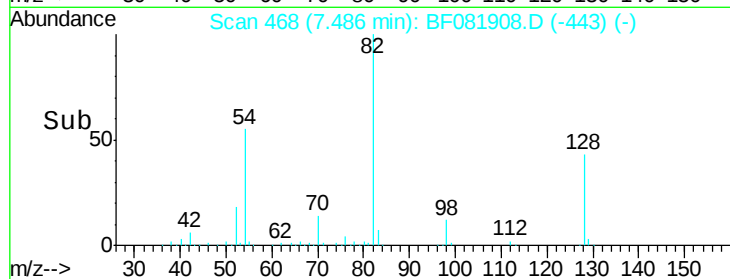
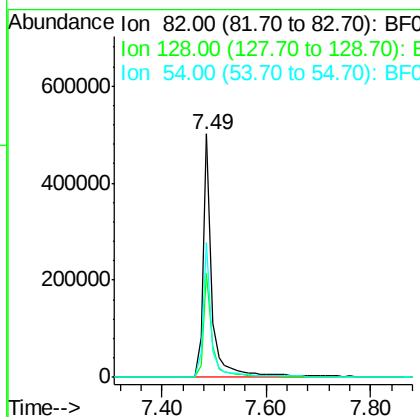
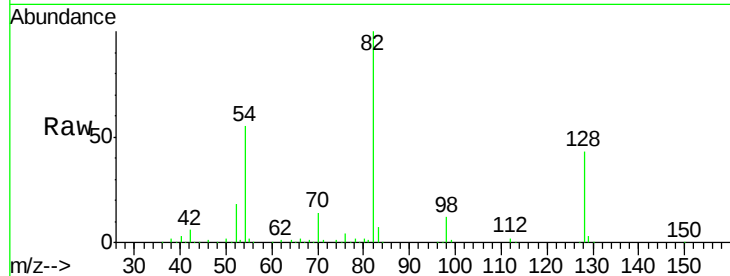




#23  
 Nitrobenzene-d5  
 Concen: 89.06 ng  
 RT: 7.49 min Scan# 468  
 Delta R.T. -0.01 min  
 Lab File: BF081908.D  
 Acq: 30 Sep 2015 10:39

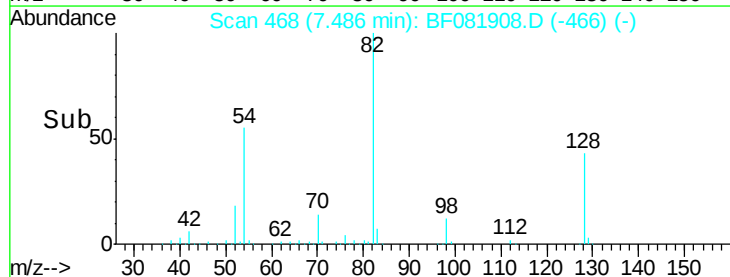
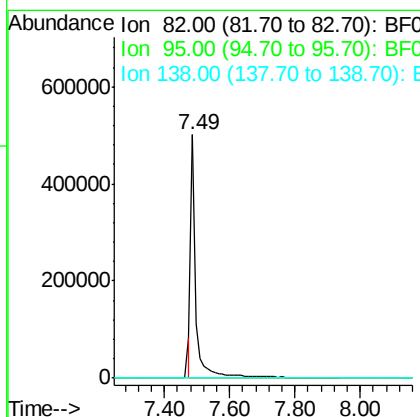
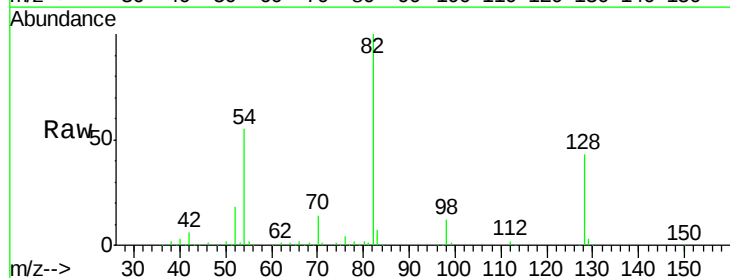
Instrument :  
 BNA\_F  
 ClientSampleId :  
 S8-0484

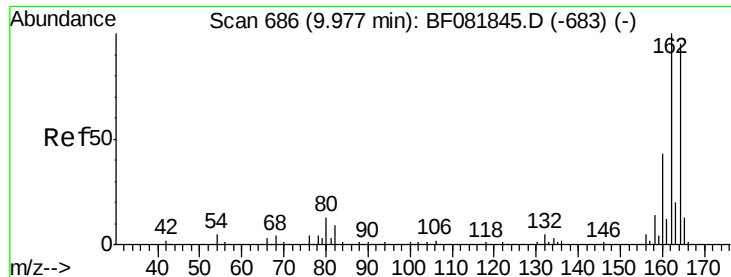
Tgt Ion: 82 Resp: 605033  
 Ion Ratio Lower Upper  
 82 100  
 128 42.8 51.0 76.6#  
 54 55.2 47.5 71.3



#25  
 Isophorone  
 Concen: 40.32 ng  
 RT: 7.49 min Scan# 468  
 Delta R.T. -0.27 min  
 Lab File: BF081908.D  
 Acq: 30 Sep 2015 10:39

Tgt Ion: 82 Resp: 542943  
 Ion Ratio Lower Upper  
 82 100  
 95 0.0 4.0 6.0#  
 138 0.0 18.3 27.5#

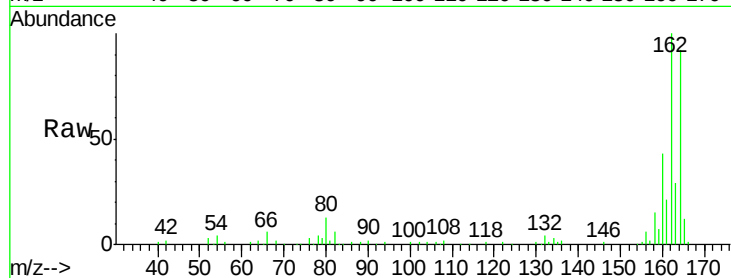




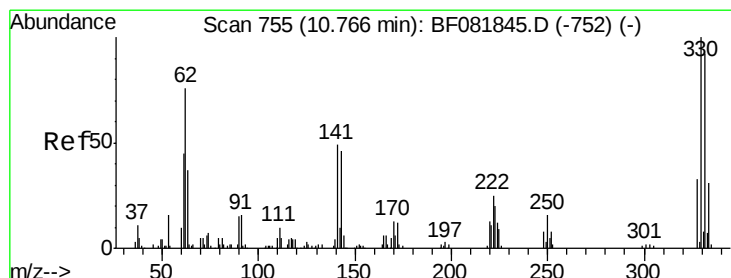
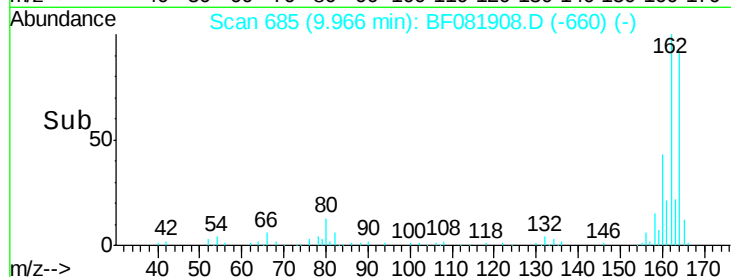
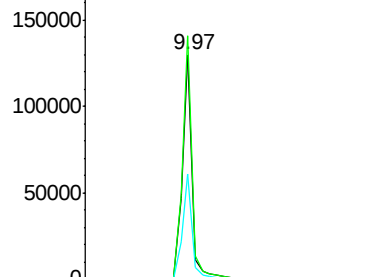
#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.97 min Scan# 685  
 Delta R.T. -0.01 min  
 Lab File: BF081908.D  
 Acq: 30 Sep 2015 10:39

Instrument :  
 BNA\_F  
 ClientSampleId :  
 S8-0484

Tgt Ion:164 Resp: 142663  
 Ion Ratio Lower Upper  
 164 100  
 162 108.3 75.2 112.8  
 160 46.9 31.5 47.3

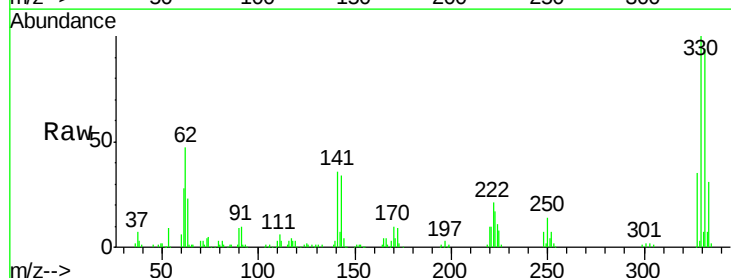


Abundance Ion 164.00 (163.70 to 164.70): E  
 Ion 162.00 (161.70 to 162.70): E  
 Ion 160.00 (159.70 to 160.70): E

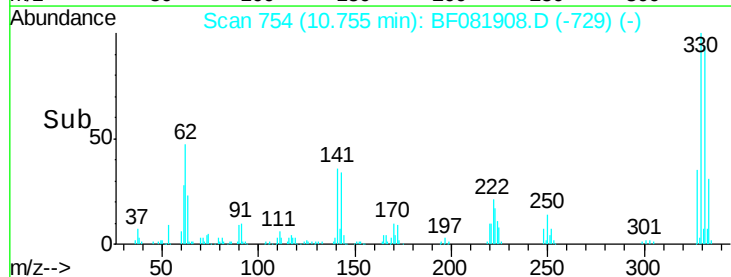
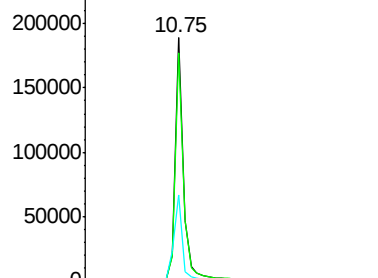


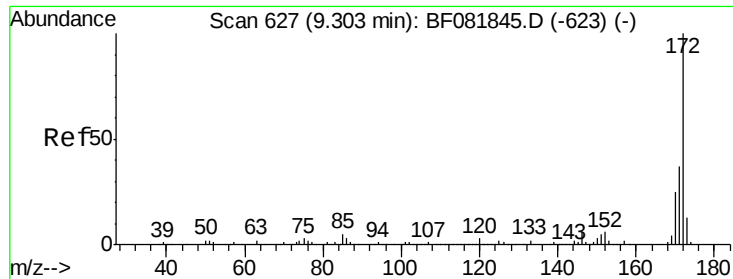
#41  
 2,4,6-Tribromophenol  
 Concen: 141.86 ng  
 RT: 10.75 min Scan# 754  
 Delta R.T. -0.01 min  
 Lab File: BF081908.D  
 Acq: 30 Sep 2015 10:39

Tgt Ion:330 Resp: 204963  
 Ion Ratio Lower Upper  
 330 100  
 332 95.8 76.6 114.8  
 141 37.0 29.7 44.5



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

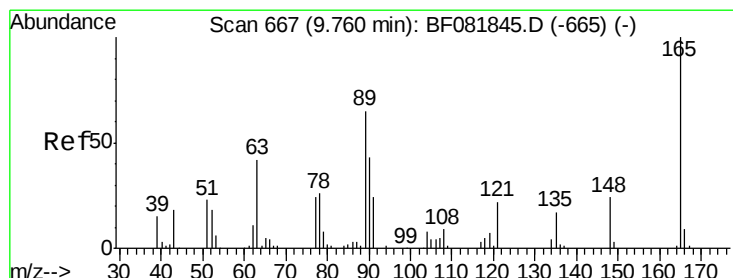
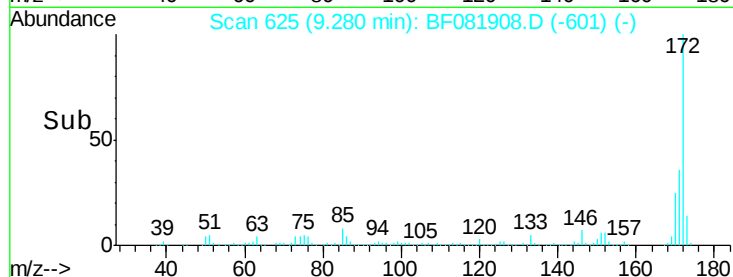
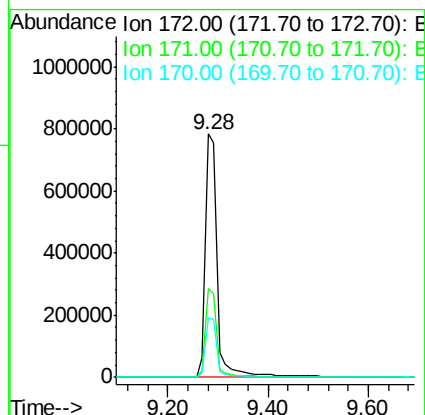
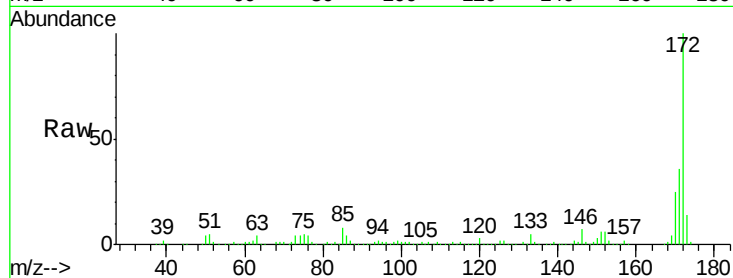




#44  
 2-Fluorobiphenyl  
 Concen: 209.08 ng  
 RT: 9.28 min Scan# 625  
 Delta R.T. -0.02 min  
 Lab File: BF081908.D  
 Acq: 30 Sep 2015 10:39

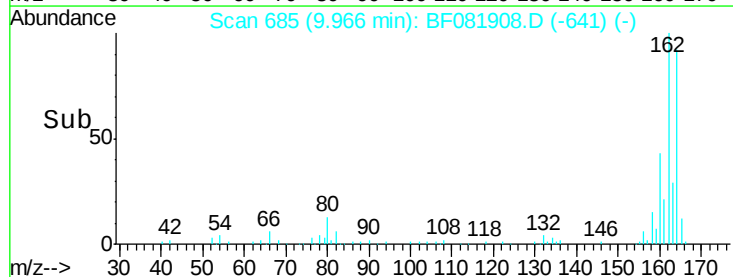
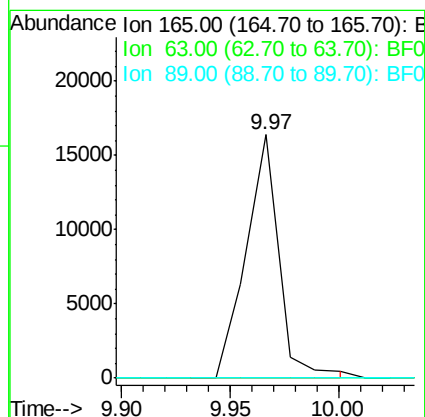
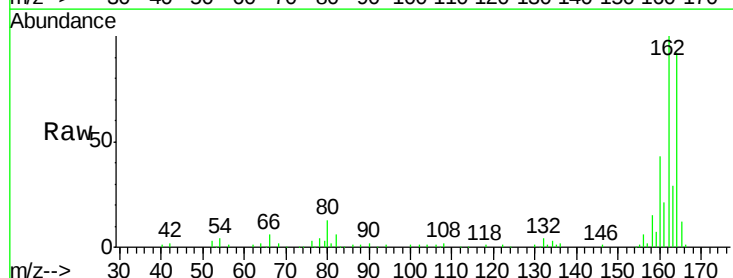
Instrument :  
 BNA\_F  
 ClientSampled :  
 S8-0484

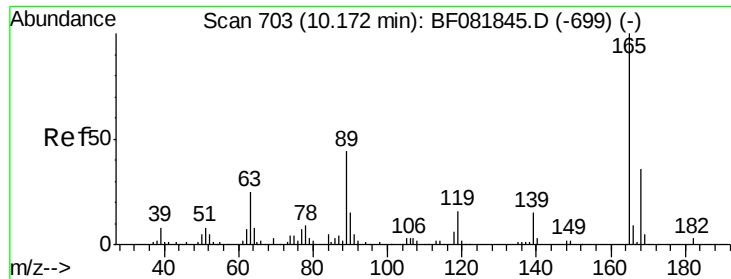
Tgt Ion:172 Resp: 1297807  
 Ion Ratio Lower Upper  
 172 100  
 171 36.4 26.1 39.1  
 170 24.6 17.4 26.2



#50  
 2,6-Dinitrotoluene  
 Concen: 8.04 ng  
 RT: 9.97 min Scan# 685  
 Delta R.T. 0.21 min  
 Lab File: BF081908.D  
 Acq: 30 Sep 2015 10:39

Tgt Ion:165 Resp: 17190  
 Ion Ratio Lower Upper  
 165 100  
 63 0.0 32.3 48.5#  
 89 0.0 28.6 43.0#

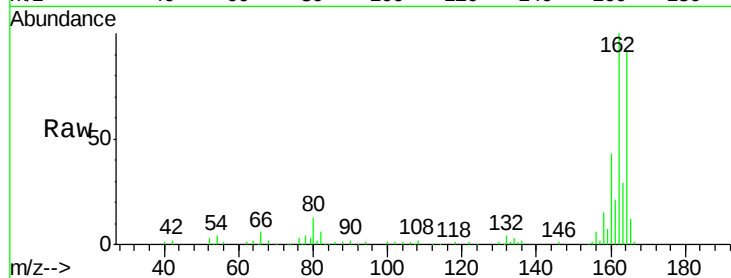




#56  
 2,4-Dinitrotoluene  
 Concen: 6.31 ng  
 RT: 9.97 min Scan# 685  
 Delta R.T. -0.21 min  
 Lab File: BF081908.D  
 Acq: 30 Sep 2015 10:39

Instrument :  
 BNA\_F  
 ClientSampleId :  
 S8-0484

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 165   | Resp: | 17188 |
| Ion Ratio | Lower | Upper |       |
| 165       | 100   |       |       |
| 63        | 0.0   | 29.8  | 44.6# |
| 89        | 0.0   | 44.5  | 66.7# |
| 182       | 0.0   | 3.0   | 4.4#  |

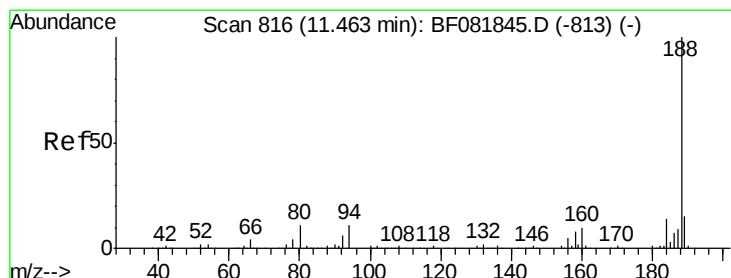
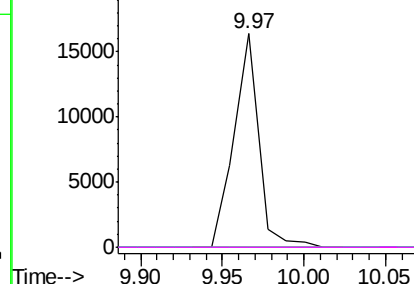
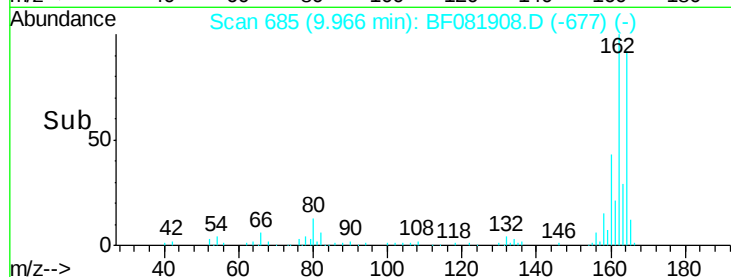


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

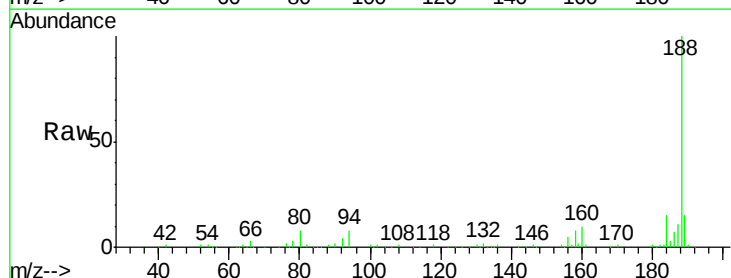
Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E



#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 11.45 min Scan# 815  
 Delta R.T. -0.01 min  
 Lab File: BF081908.D  
 Acq: 30 Sep 2015 10:39

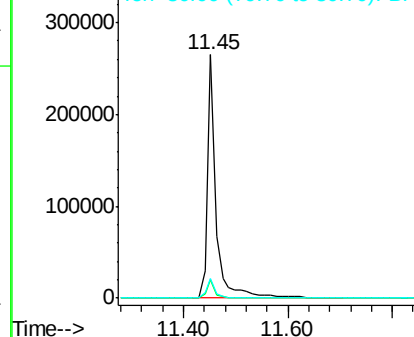
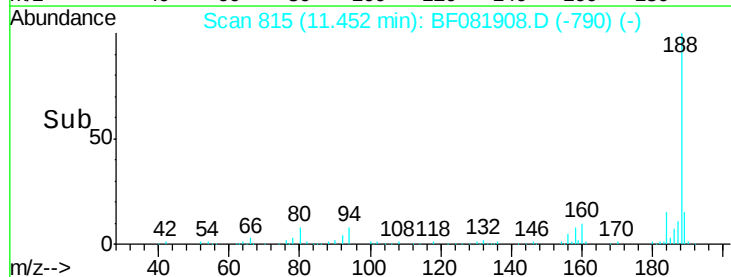
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 188   | Resp: | 307889 |
| Ion Ratio | Lower | Upper |        |
| 188       | 100   |       |        |
| 94        | 7.5   | 11.1  | 16.7#  |
| 80        | 8.2   | 11.0  | 16.4#  |

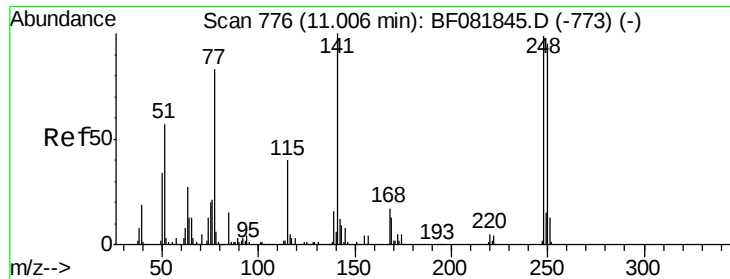


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





#66

4-Bromophenyl-phenylether

Concen: 4.33 ng

RT: 10.75 min Scan# 754

Delta R.T. -0.25 min

Lab File: BF081908.D

Acq: 30 Sep 2015 10:39

Instrument :

BNA\_F

ClientSampleId :

S8-0484

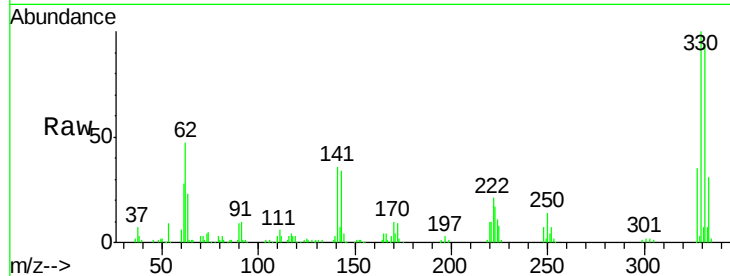
Tgt Ion:248 Resp: 13450

Ion Ratio Lower Upper

248 100

250 191.2 78.5 117.7#

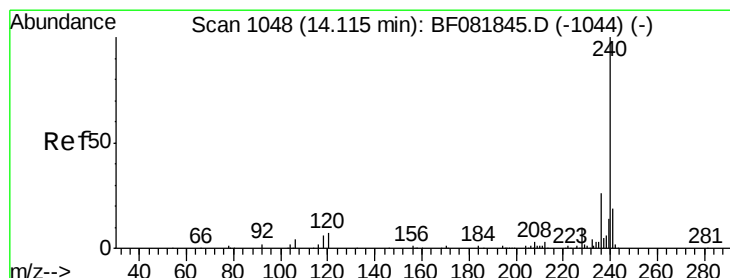
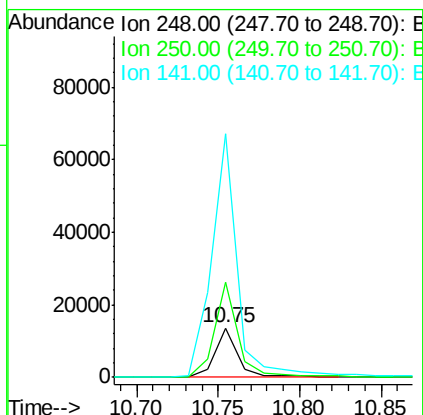
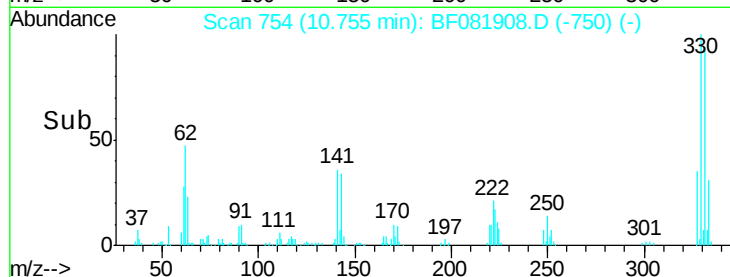
141 490.3 59.0 88.6#



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



#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.09 min Scan# 1046

Delta R.T. -0.02 min

Lab File: BF081908.D

Acq: 30 Sep 2015 10:39

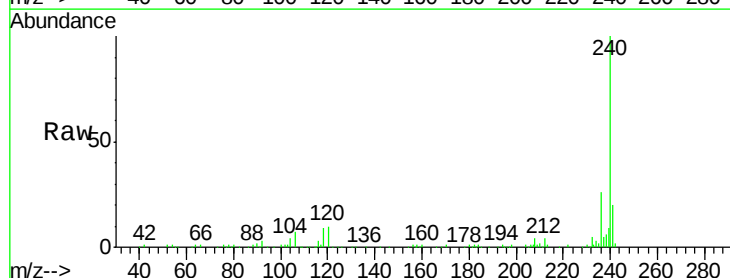
Tgt Ion:240 Resp: 296907

Ion Ratio Lower Upper

240 100

120 10.4 16.2 24.2#

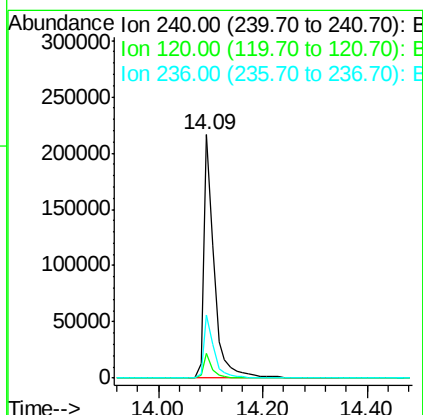
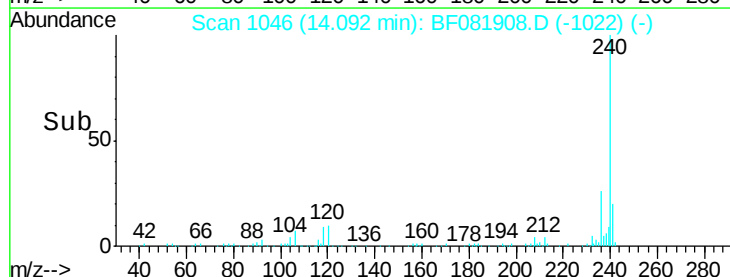
236 25.9 18.4 27.6

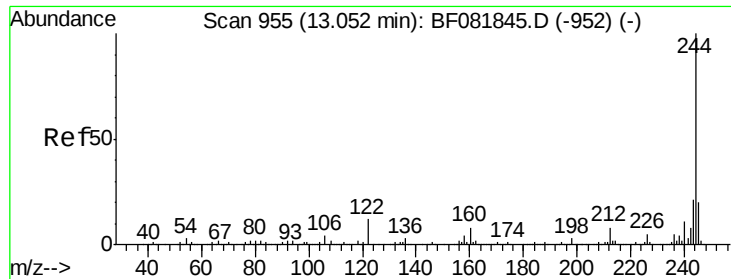


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

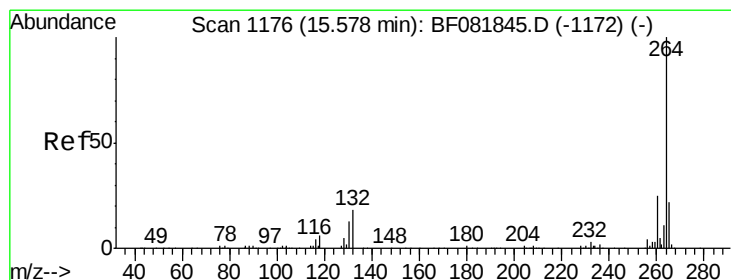
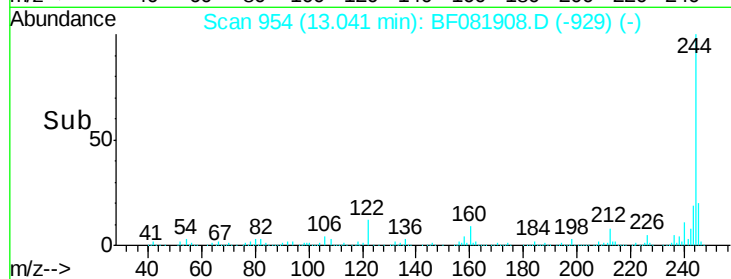
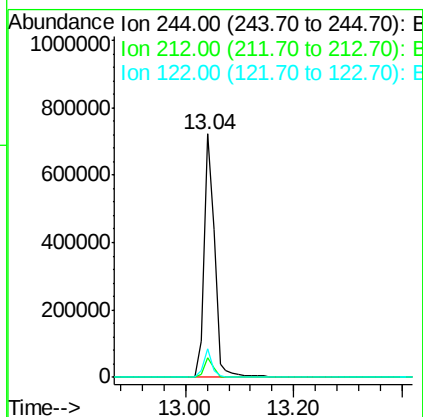
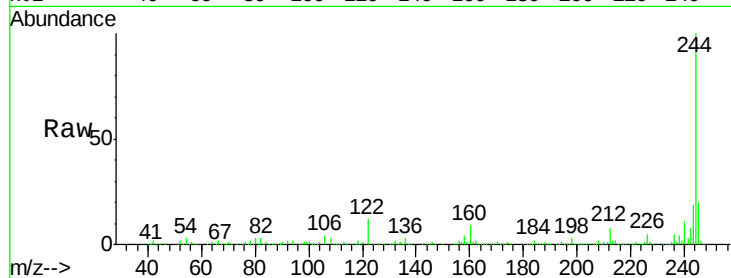




#78  
 Terphenyl-d14  
 Concen: 113.31 ng  
 RT: 13.04 min Scan# 954  
 Delta R.T. -0.01 min  
 Lab File: BF081908.D  
 Acq: 30 Sep 2015 10:39

Instrument :  
 BNA\_F  
 ClientSampled :  
 S8-0484

Tgt Ion: 244 Resp: 948012  
 Ion Ratio Lower Upper  
 244 100  
 212 8.2 4.3 6.5#  
 122 11.8 17.4 26.2#



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 15.56 min Scan# 1174  
 Delta R.T. -0.02 min  
 Lab File: BF081908.D  
 Acq: 30 Sep 2015 10:39

Tgt Ion: 264 Resp: 249848  
 Ion Ratio Lower Upper  
 264 100  
 260 23.3 16.7 25.1  
 265 21.0 17.2 25.8

