

Data Path : Z:\HPCHEM1\BNA F\DATA\BF011016\  
 Data File : BF084352.D  
 Acq On : 10 Jan 2016 9:16  
 Operator : SJ/UM  
 Sample : H1043-01  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Jan 11 00:13:22 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF123115.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jan 04 12:22:40 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.85  | 152  | 279551   | 20.00 | ng    | -0.05    |
| 21) Naphthalene-d8        | 8.14  | 136  | 1195307  | 20.00 | ng    | -0.05    |
| 38) Acenaphthene-d10      | 9.89  | 164  | 555289   | 20.00 | ng    | -0.06    |
| 63) Phenanthrene-d10      | 11.38 | 188  | 1037297  | 20.00 | ng    | -0.05    |
| 75) Chrysene-d12          | 14.02 | 240  | 765865   | 20.00 | ng    | -0.05    |
| 86) Perylene-d12          | 15.44 | 264  | 561539   | 20.00 | ng    | -0.07    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.48  | 112  | 2175416  | 125.87 | ng    | -0.01    |
| 7) Phenol-d6                | 6.51  | 99   | 2656541  | 122.39 | ng    | -0.02    |
| 23) Nitrobenzene-d5         | 7.42  | 82   | 1782708  | 83.01  | ng    | -0.05    |
| 41) 2,4,6-Tribromophenol    | 10.69 | 330  | 684947   | 122.18 | ng    | -0.05    |
| 44) 2-Fluorobiphenyl        | 9.22  | 172  | 2302898  | 71.99  | ng    | -0.04    |
| 78) Terphenyl-d14           | 12.97 | 244  | 2124307  | 61.91  | ng    | -0.05    |

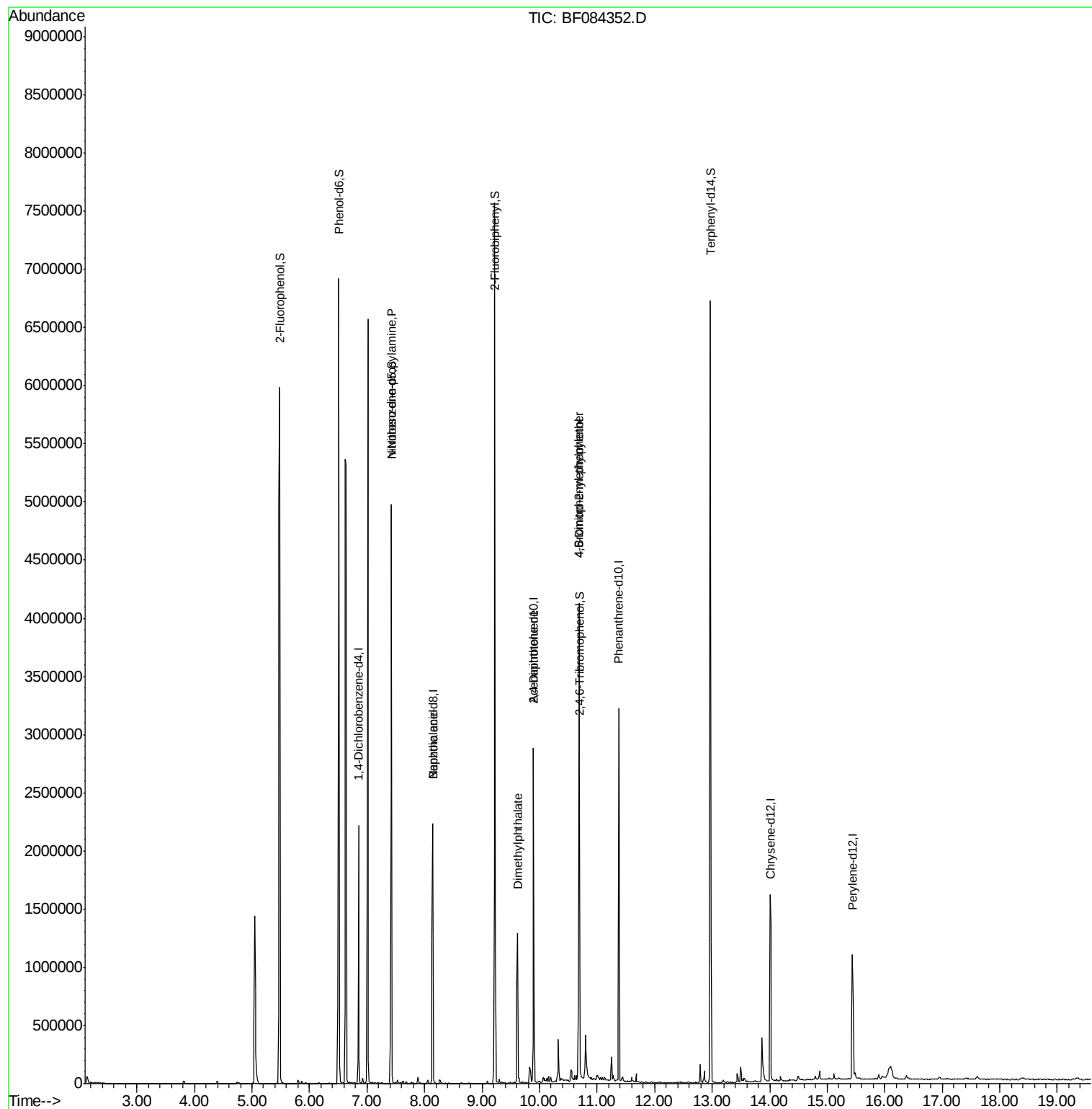
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 19) n-Nitroso-di-n-propylamine | 7.42  | 70   | 255877   | 17.41     | ng    | # 71   |
| 32) Benzoic acid               | 8.14  | 122  | 333      | 6.27      | ng    | # 1    |
| 49) Dimethylphthalate          | 9.62  | 163  | 662684   | 16.69     | ng    | # 91   |
| 54) Dibenzofuran               | 10.10 | 168  | 620      | Below Cal |       | # 44   |
| 56) 2,4-Dinitrotoluene         | 9.89  | 165  | 73414    | 6.66      | ng    | # 21   |
| 57) Fluorene                   | 10.68 | 166  | 23187    | Below Cal |       | # 89   |
| 60) 4-Chlorophenyl-phenylether | 10.25 | 204  | 254      | Below Cal |       | # 24   |
| 64) 4,6-Dinitro-2-methylphenol | 10.68 | 198  | 1393     | 6.59      | ng    | # 1    |
| 66) 4-Bromophenyl-phenylether  | 10.68 | 248  | 41057    | 3.68      | ng    | # 1    |
| 73) Di-n-butylphthalate        | 11.95 | 149  | 4972     | Below Cal |       | # 78   |

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

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Quant Time: Jan 11 00:13:22 2016  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF123115.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Jan 04 12:22:40 2016  
Response via : Initial Calibration



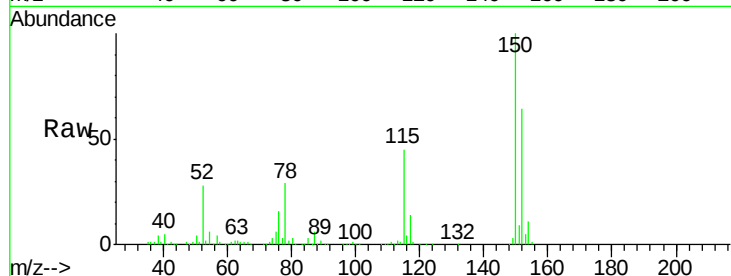


#1

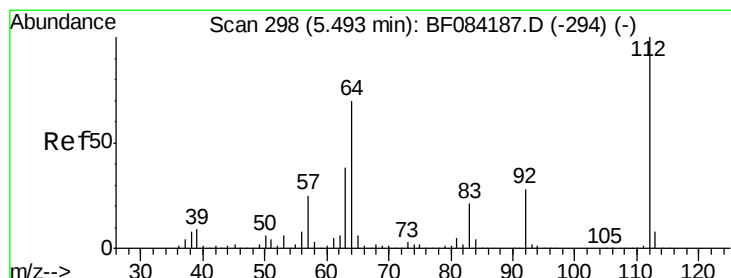
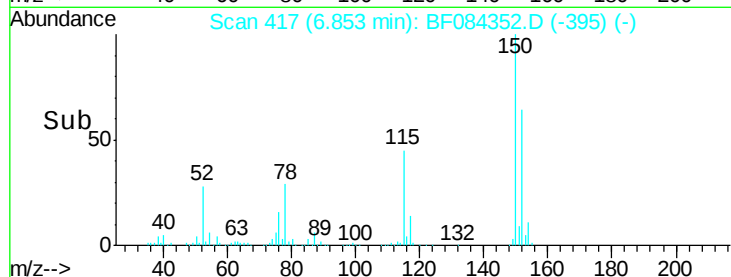
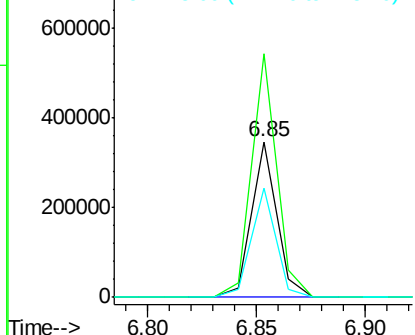
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.85 min Scan# 417  
Delta R.T. -0.05 min  
Lab File: BF084352.D  
Acq: 10 Jan 2016 9:16

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 156.3 | 123.0 | 184.4 |
| 115     | 70.0  | 51.4  | 77.2  |



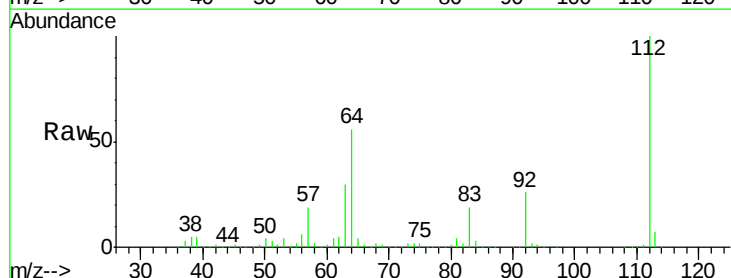
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



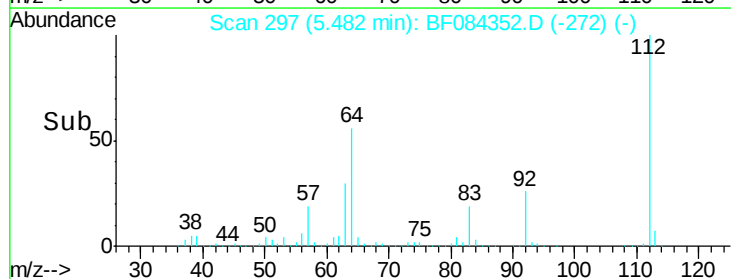
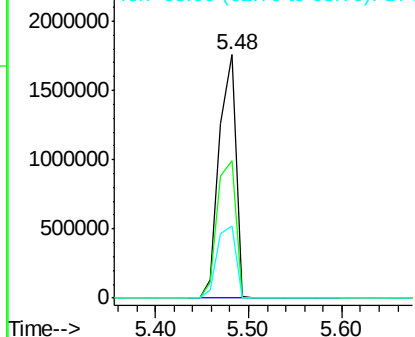
#5

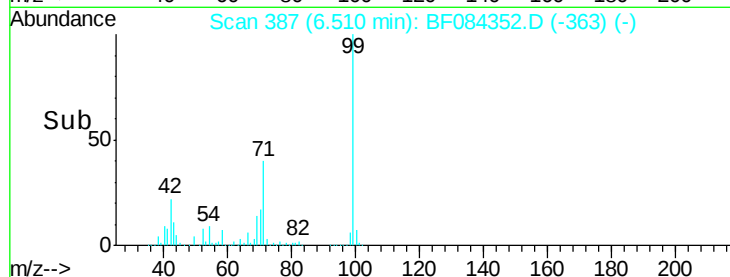
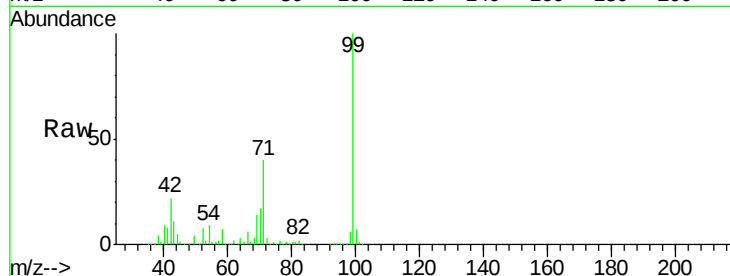
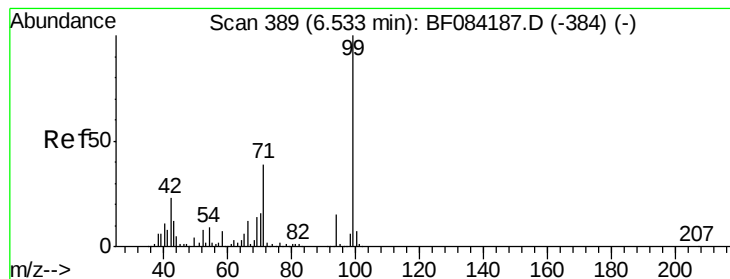
2-Fluorophenol  
Concen: 125.87 ng  
RT: 5.48 min Scan# 297  
Delta R.T. -0.01 min  
Lab File: BF084352.D  
Acq: 10 Jan 2016 9:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 56.2  | 36.6  | 55.0# |
| 63      | 29.8  | 19.4  | 29.0# |



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: 122.39 ng

RT: 6.51 min Scan# 387

Delta R.T. -0.02 min

Lab File: BF084352.D

Acq: 10 Jan 2016 9:16

Instrument :

BNA\_F

ClientSampleId :

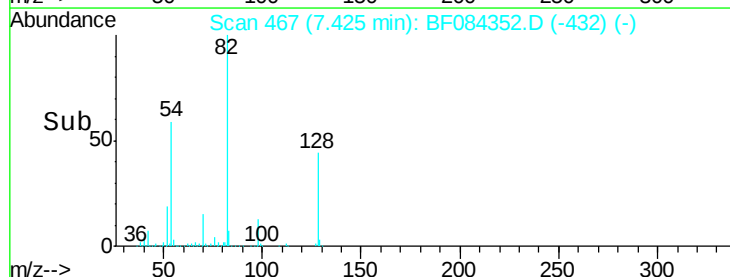
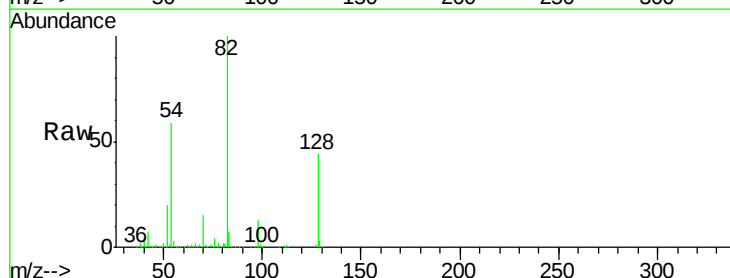
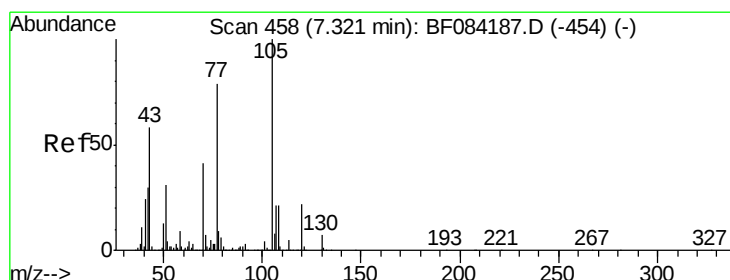
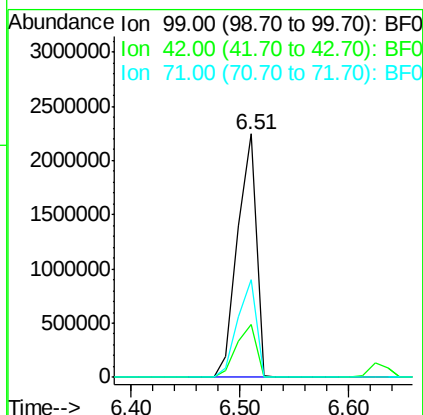
Tot Ion: 99 Resp: 2656541

Ion Ratio Lower Upper

99 100

42 21.8 12.8 19.2#

71 40.1 30.9 46.3



#19

n-Nitroso-di-n-propylamine

Concen: 17.41 ng

RT: 7.42 min Scan# 467

Delta R.T. 0.10 min

Lab File: BF084352.D

Acq: 10 Jan 2016 9:16

Tgt Ion: 70 Resp: 255877

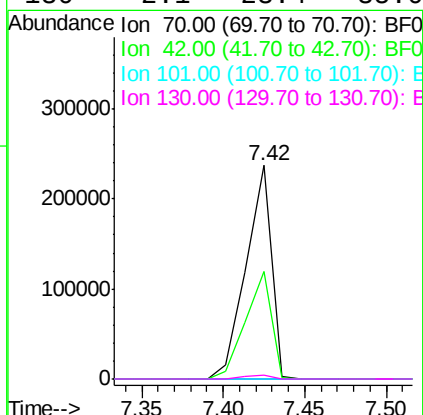
Ion Ratio Lower Upper

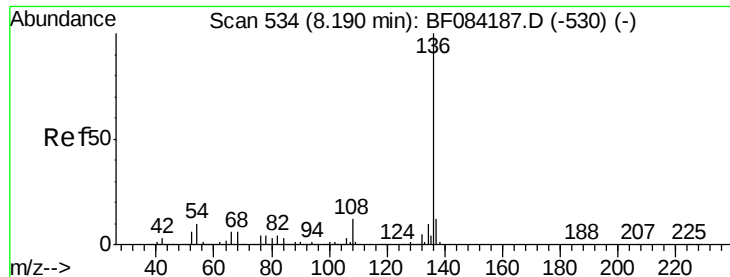
70 100

42 50.4 33.3 49.9#

101 0.0 9.3 13.9#

130 2.1 23.4 35.0#





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.14 min Scan# 530

Delta R.T. -0.05 min

Lab File: BF084352.D

Acq: 10 Jan 2016 9:16

Instrument :

BNA\_F

ClientSampleId :

Tot Ion:136 Resp: 1195307

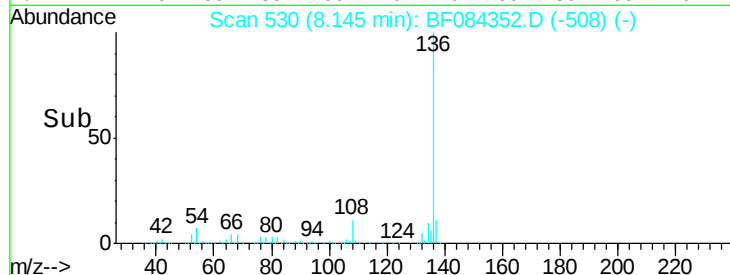
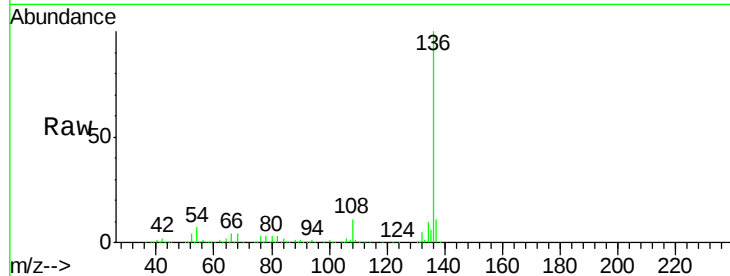
Ion Ratio Lower Upper

136 100

137 11.2 8.7 13.1

54 7.0 5.8 8.8

68 3.9 4.2 6.2#

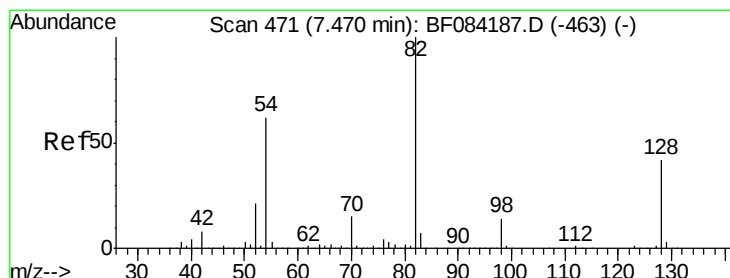
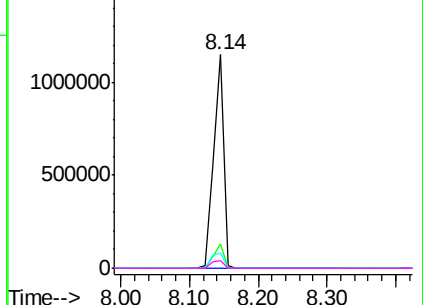


Abundance Ion 136.00 (135.70 to 136.70): E

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: 83.01 ng

RT: 7.42 min Scan# 467

Delta R.T. -0.05 min

Lab File: BF084352.D

Acq: 10 Jan 2016 9:16

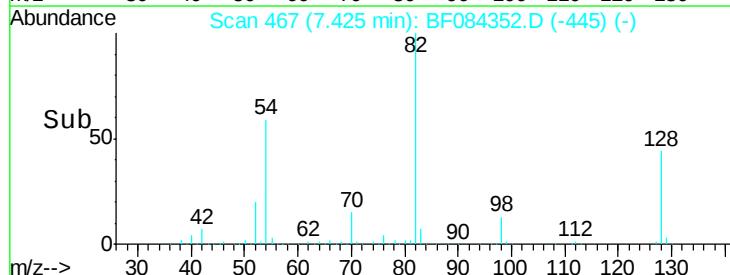
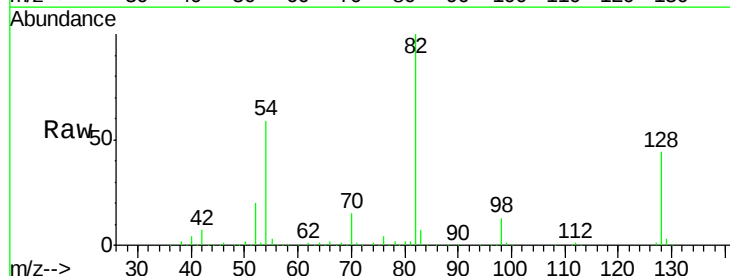
Tgt Ion: 82 Resp: 1782708

Ion Ratio Lower Upper

82 100

128 43.7 34.6 51.8

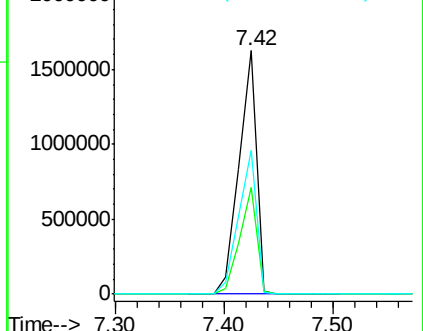
54 58.9 38.4 57.6#



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

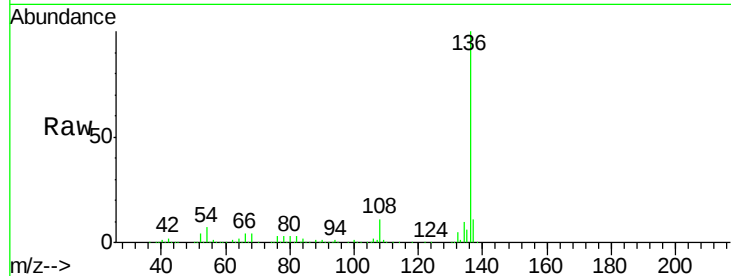




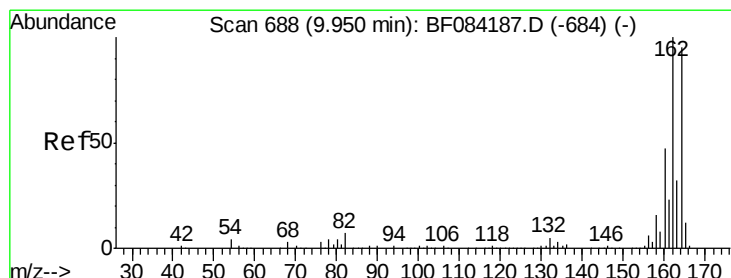
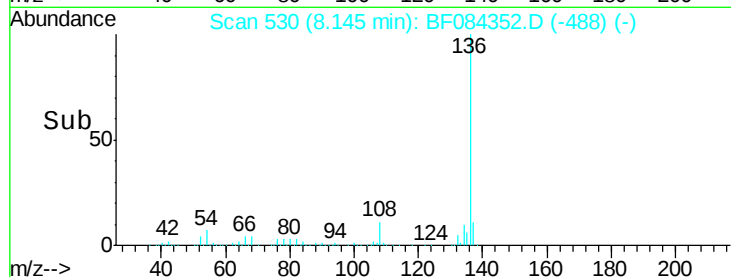
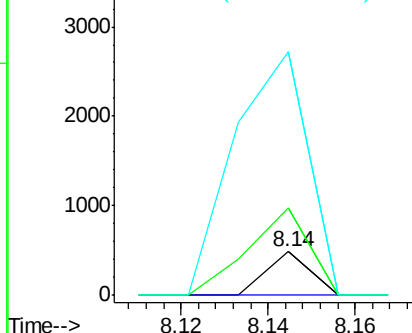
#32  
Benzoic acid  
Concen: 6.27 ng  
RT: 8.14 min Scan# 530  
Delta R.T. 0.18 min  
Lab File: BF084352.D  
Acq: 10 Jan 2016 9:16

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:122 Resp: 333  
Ion Ratio Lower Upper  
122 100  
105 200.6 100.3 140.3#  
77 560.8 63.5 103.5#

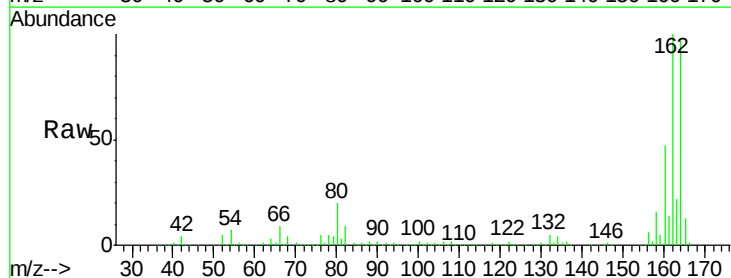


Abundance Ion 122.00 (121.70 to 122.70): E  
Ion 105.00 (104.70 to 105.70): E  
Ion 77.00 (76.70 to 77.70): BF0

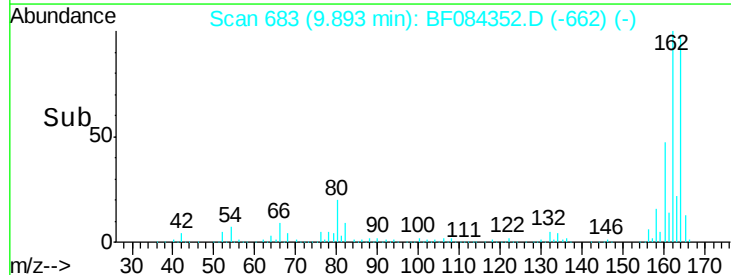
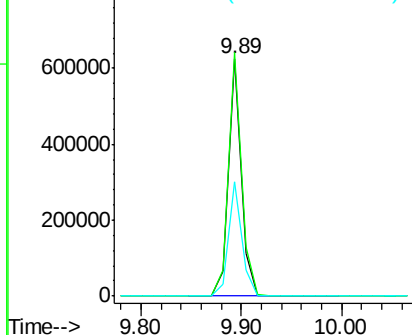


#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.89 min Scan# 683  
Delta R.T. -0.06 min  
Lab File: BF084352.D  
Acq: 10 Jan 2016 9:16

Tgt Ion:164 Resp: 555289  
Ion Ratio Lower Upper  
164 100  
162 102.7 85.1 127.7  
160 48.2 37.5 56.3



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

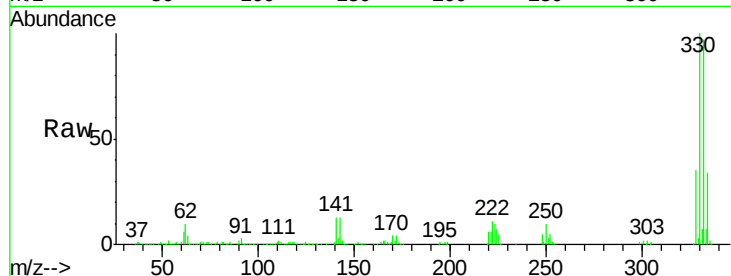




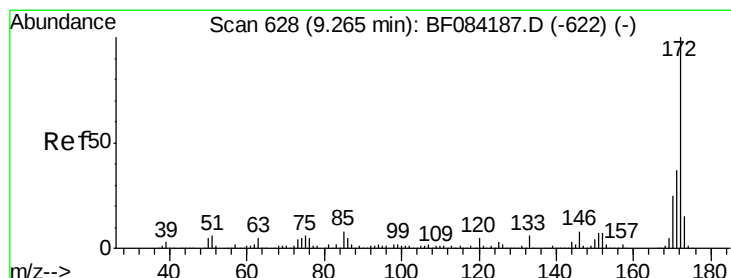
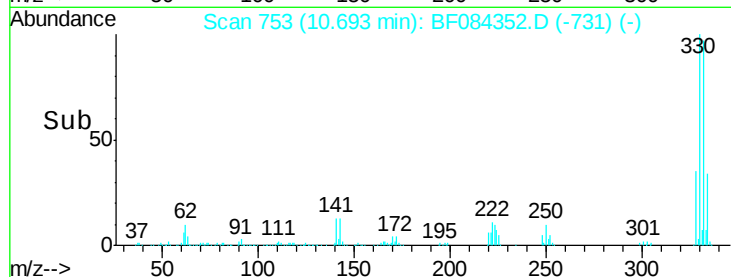
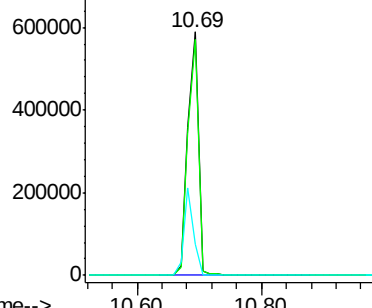
#41  
 2,4,6-Tribromophenol  
 Concen: 122.18 ng  
 RT: 10.69 min Scan# 753  
 Delta R.T. -0.05 min  
 Lab File: BF084352.D  
 Acq: 10 Jan 2016 9:16

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 97.0  | 76.6  | 114.8 |
| 141     | 32.9  | 27.8  | 41.6  |

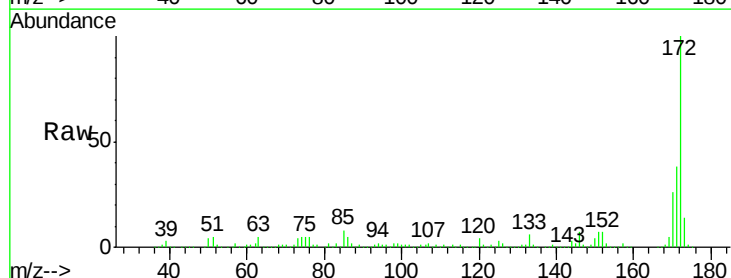


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

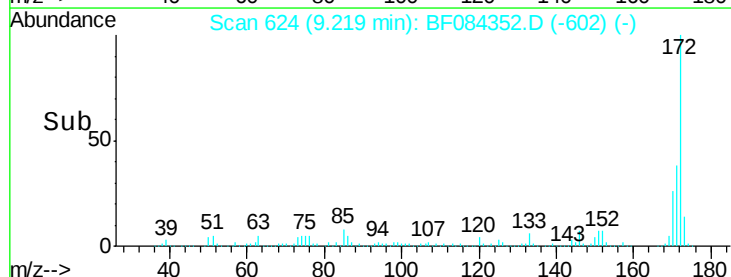
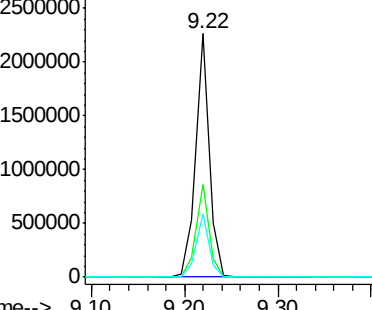


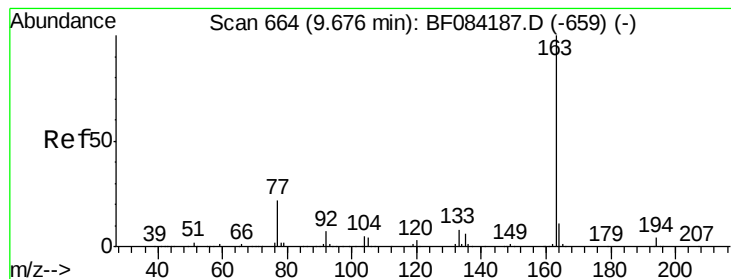
#44  
 2-Fluorobiphenyl  
 Concen: 71.99 ng  
 RT: 9.22 min Scan# 624  
 Delta R.T. -0.04 min  
 Lab File: BF084352.D  
 Acq: 10 Jan 2016 9:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 38.0  | 28.9  | 43.3  |
| 170     | 25.7  | 18.6  | 27.8  |



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





#49

Dimethylphthalate

Concen: 16.69 ng

RT: 9.62 min Scan# 659

Delta R.T. -0.06 min

Lab File: BF084352.D

Acq: 10 Jan 2016 9:16

Instrument :

BNA\_F

ClientSampleId :

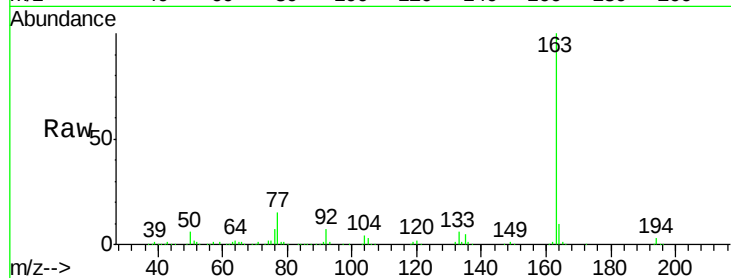
Tot Ion:163 Resp: 662684

Ion Ratio Lower Upper

163 100

194 3.4 8.0 12.0#

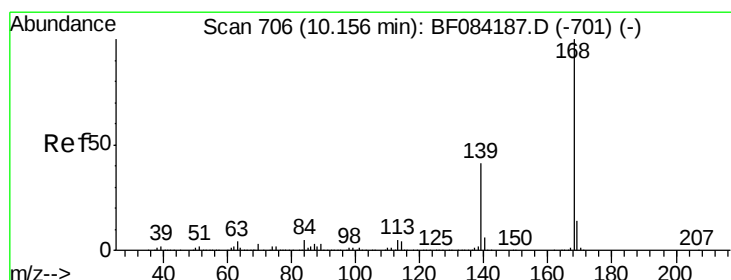
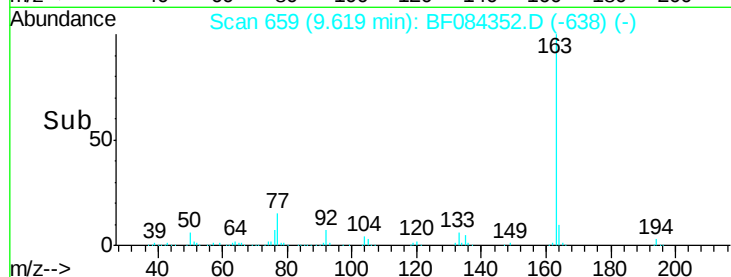
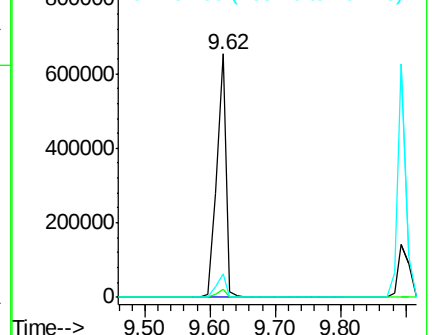
164 9.7 8.0 12.0



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#54

Dibenzofuran

Concen: Below Cal

RT: 10.10 min Scan# 701

Delta R.T. -0.06 min

Lab File: BF084352.D

Acq: 10 Jan 2016 9:16

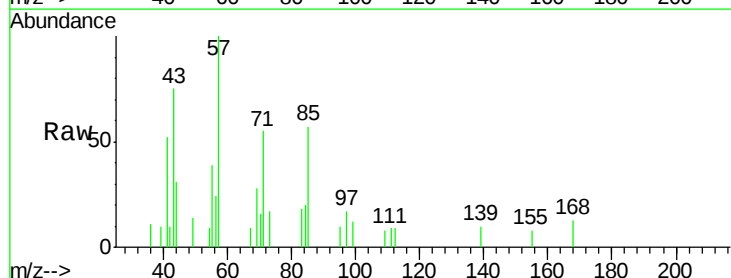
Tgt Ion:168 Resp: 620

Ion Ratio Lower Upper

168 100

139 77.1 30.5 45.7#

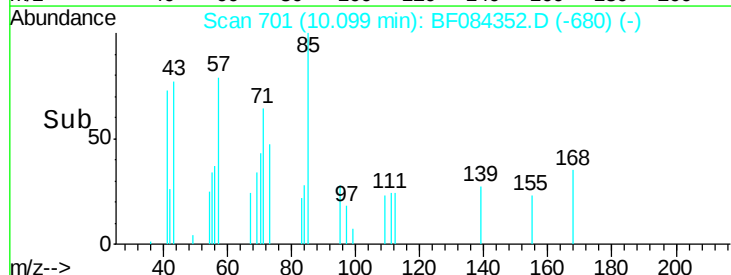
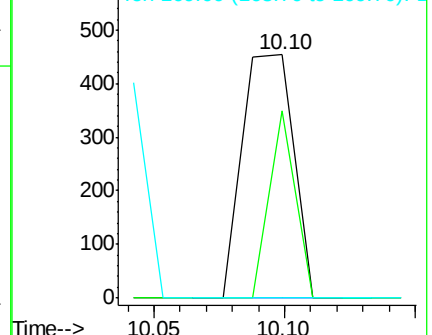
169 0.0 10.4 15.6#

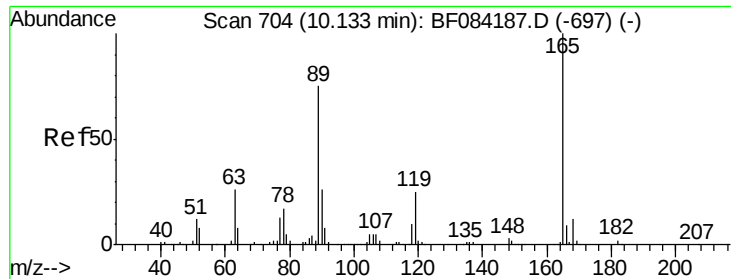


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E

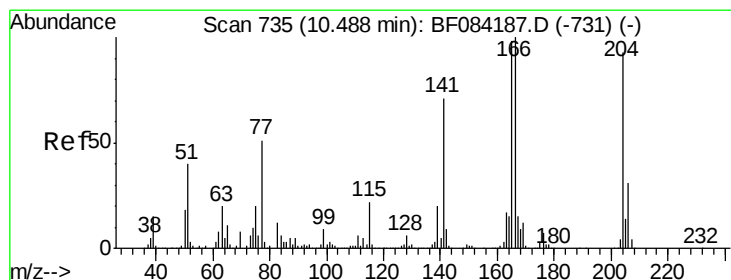
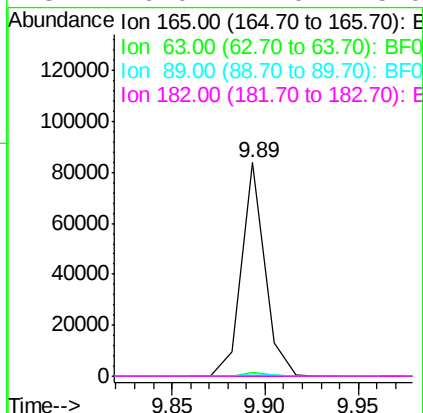
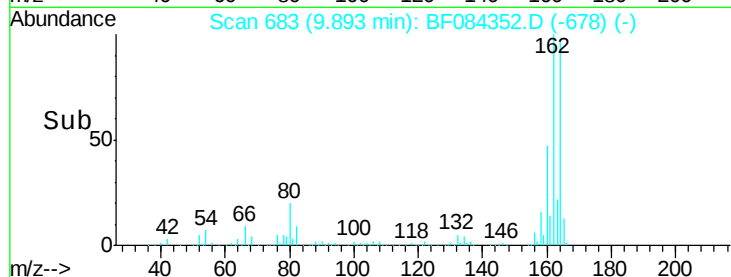
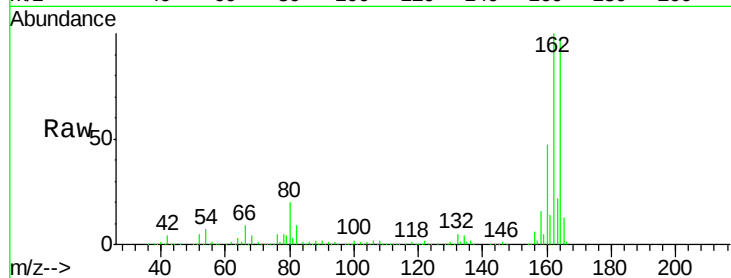




#56  
 2,4-Dinitrotoluene  
 Concen: 6.66 ng  
 RT: 9.89 min Scan# 683  
 Delta R.T. -0.24 min  
 Lab File: BF084352.D  
 Acq: 10 Jan 2016 9:16

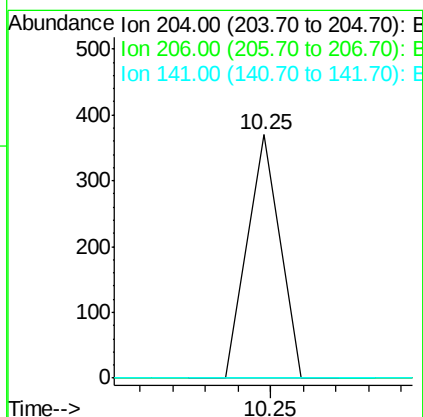
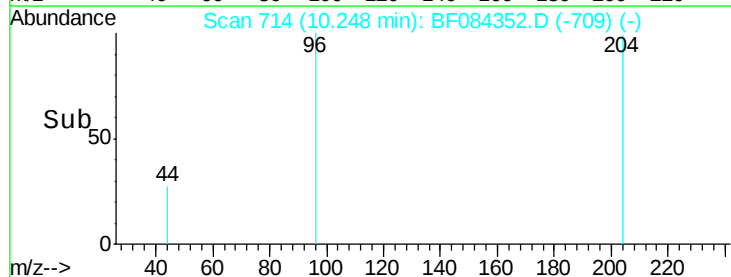
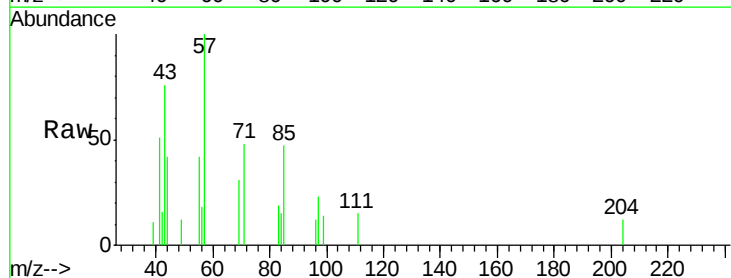
Instrument :  
 BNA\_F  
 ClientSampleId :

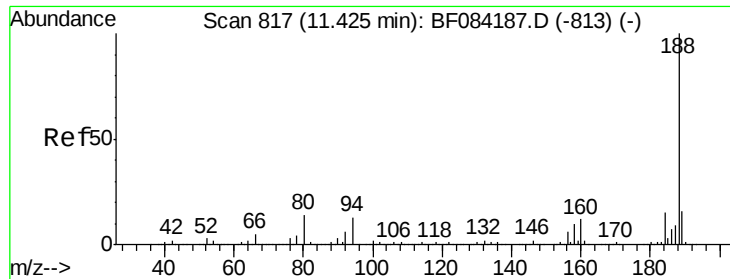
Tot Ion:165 Resp: 73414  
 Ion Ratio Lower Upper  
 165 100  
 63 1.7 36.7 55.1#  
 89 1.5 61.9 92.9#  
 182 0.0 2.0 3.0#



#60  
 4-Chlorophenyl-phenylether  
 Concen: Below Cal  
 RT: 10.25 min Scan# 714  
 Delta R.T. -0.24 min  
 Lab File: BF084352.D  
 Acq: 10 Jan 2016 9:16

Tgt Ion:204 Resp: 254  
 Ion Ratio Lower Upper  
 204 100  
 206 0.0 25.7 38.5#  
 141 0.0 55.1 82.7#

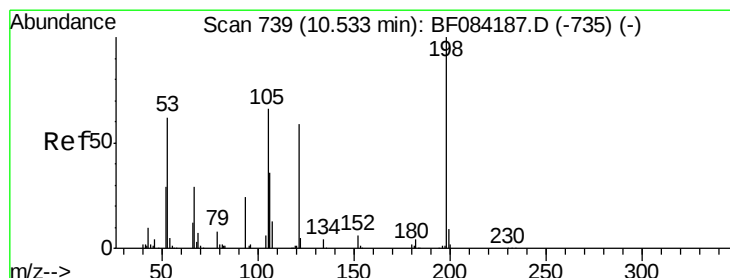
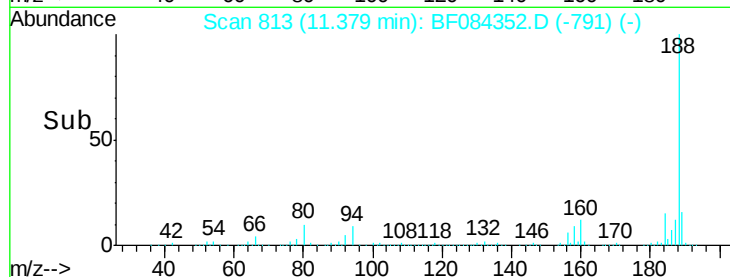
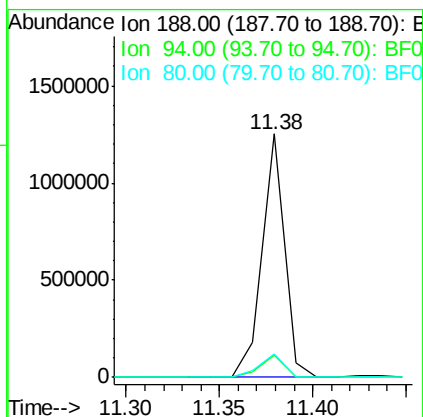
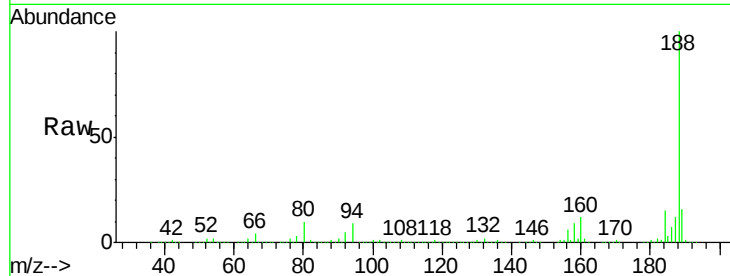




#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.38 min Scan# 813  
Delta R.T. -0.05 min  
Lab File: BF084352.D  
Acq: 10 Jan 2016 9:16

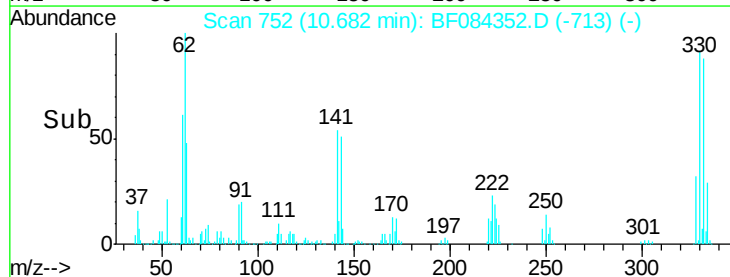
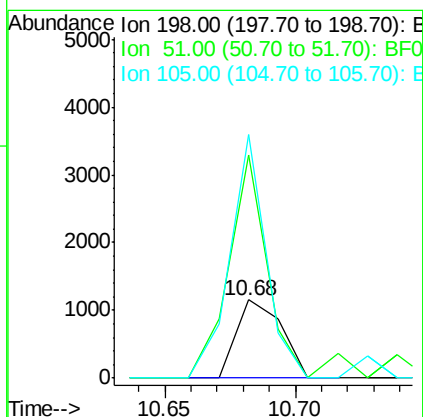
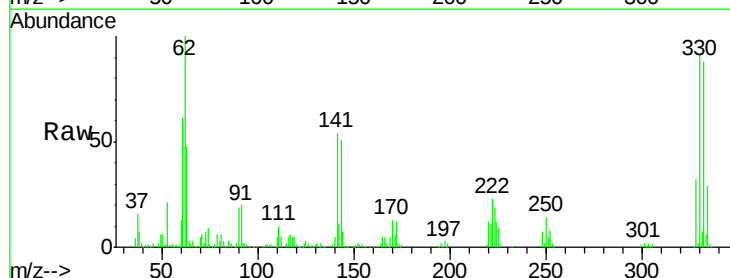
Instrument :  
BNA\_F  
ClientSampleId :

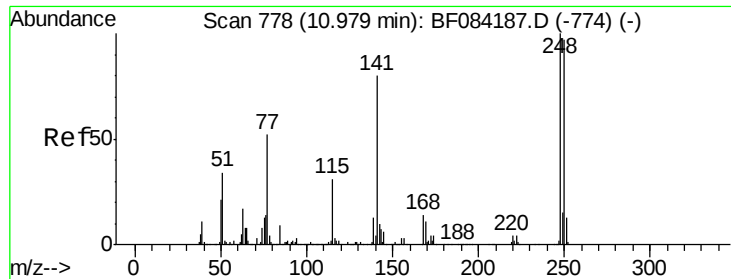
Tot Ion:188 Resp: 1037297  
Ion Ratio Lower Upper  
188 100  
94 9.3 9.0 13.4  
80 9.8 9.6 14.4



#64  
4,6-Dinitro-2-methylphenol  
Concen: 6.59 ng  
RT: 10.68 min Scan# 752  
Delta R.T. 0.15 min  
Lab File: BF084352.D  
Acq: 10 Jan 2016 9:16

Tgt Ion:198 Resp: 1393  
Ion Ratio Lower Upper  
198 100  
51 286.0 18.9 58.9#  
105 311.4 26.4 66.4#

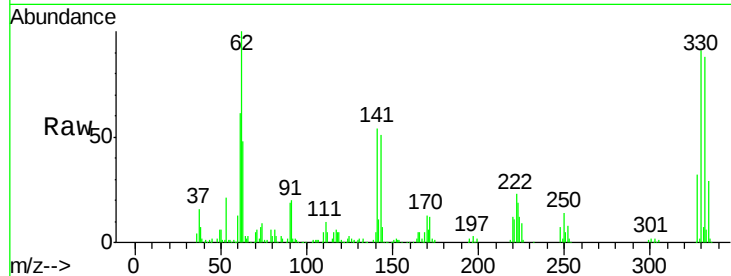




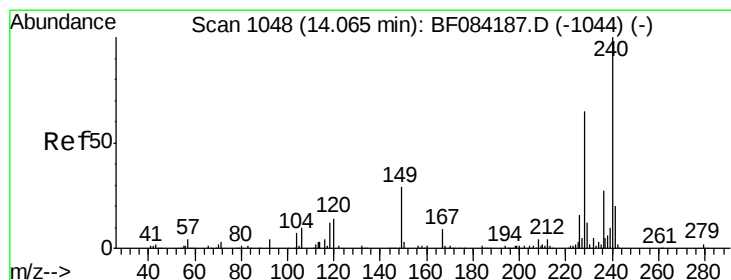
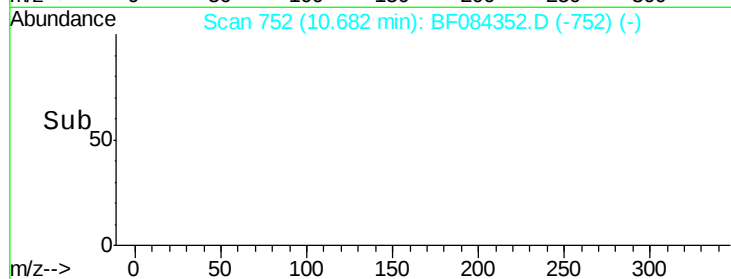
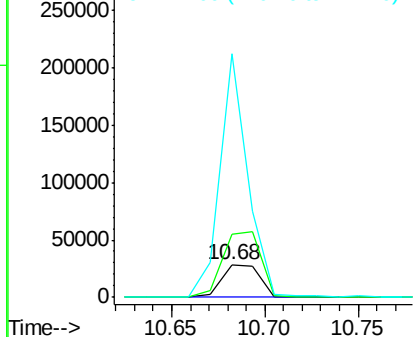
#66  
4-Bromophenyl-phenylether  
Concen: 3.68 ng  
RT: 10.68 min Scan# 752  
Delta R.T. -0.30 min  
Lab File: BF084352.D  
Acq: 10 Jan 2016 9:16

Instrument :  
BNA\_F  
ClientSampled :

Tot Ion:248 Resp: 41057  
Ion Ratio Lower Upper  
248 100  
250 196.6 78.4 117.6#  
141 751.7 44.0 66.0#

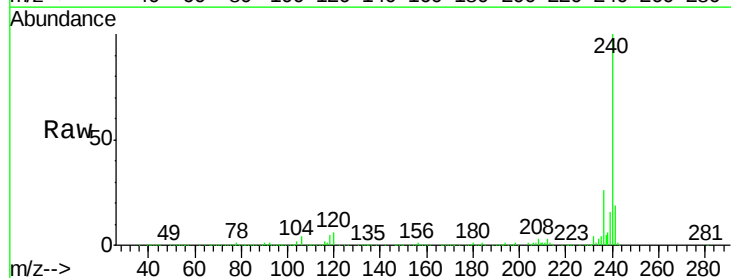


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

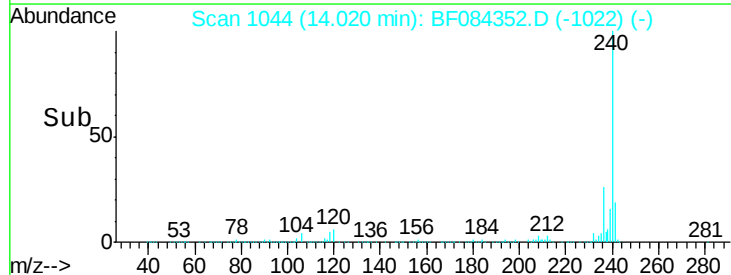
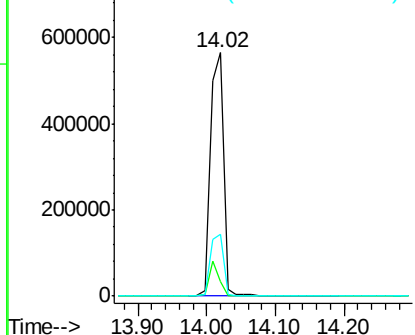


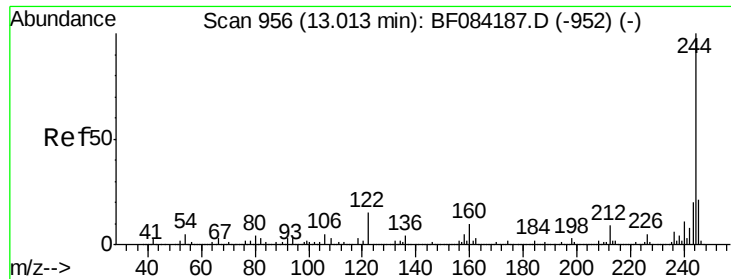
#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 14.02 min Scan# 1044  
Delta R.T. -0.05 min  
Lab File: BF084352.D  
Acq: 10 Jan 2016 9:16

Tgt Ion:240 Resp: 765865  
Ion Ratio Lower Upper  
240 100  
120 5.8 9.5 14.3#  
236 25.6 20.6 31.0



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



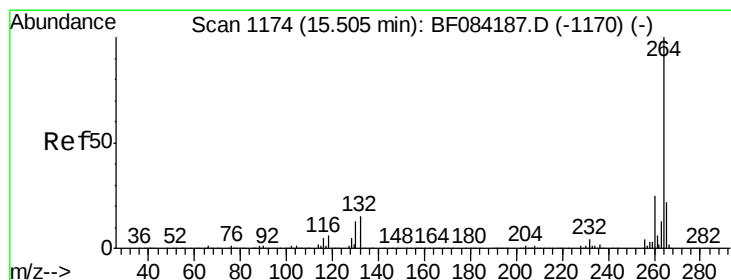
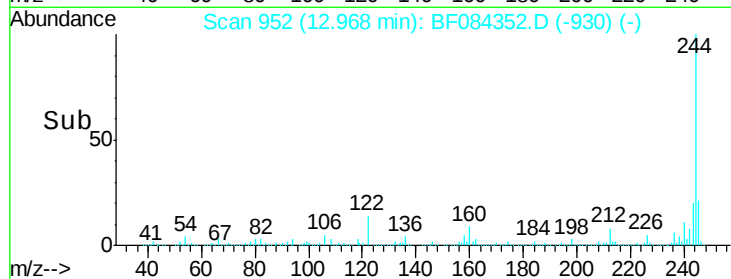
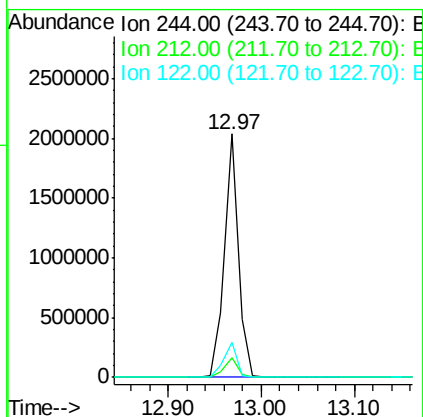
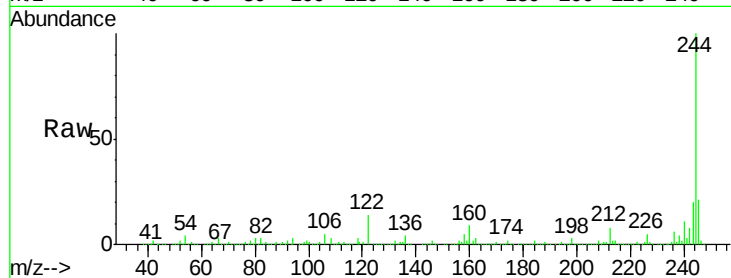


#78  
 Terphenyl-d14  
 Concen: 61.91 ng  
 RT: 12.97 min Scan# 952  
 Delta R.T. -0.05 min  
 Lab File: BF084352.D  
 Acq: 10 Jan 2016 9:16

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:244 Resp: 2124307  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 8.1   | 5.7   | 8.5   |
| 122 | 14.4  | 7.4   | 11.0  |



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 15.44 min Scan# 1168  
 Delta R.T. -0.07 min  
 Lab File: BF084352.D  
 Acq: 10 Jan 2016 9:16

Tgt Ion:264 Resp: 561539  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 24.0  | 19.4  | 29.2  |
| 265 | 21.7  | 17.8  | 26.6  |

