

Data Path : Z:\HPCHEM1\BNA F\DATA\BF111815\  
 Data File : BF083012.D  
 Acq On : 18 Nov 2015 16:06  
 Operator : UM/IZ  
 Sample : PB86622BL  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Nov 19 01:46:08 2015  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF110715.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Nov 18 13:32:32 2015  
 Response via : Initial Calibration

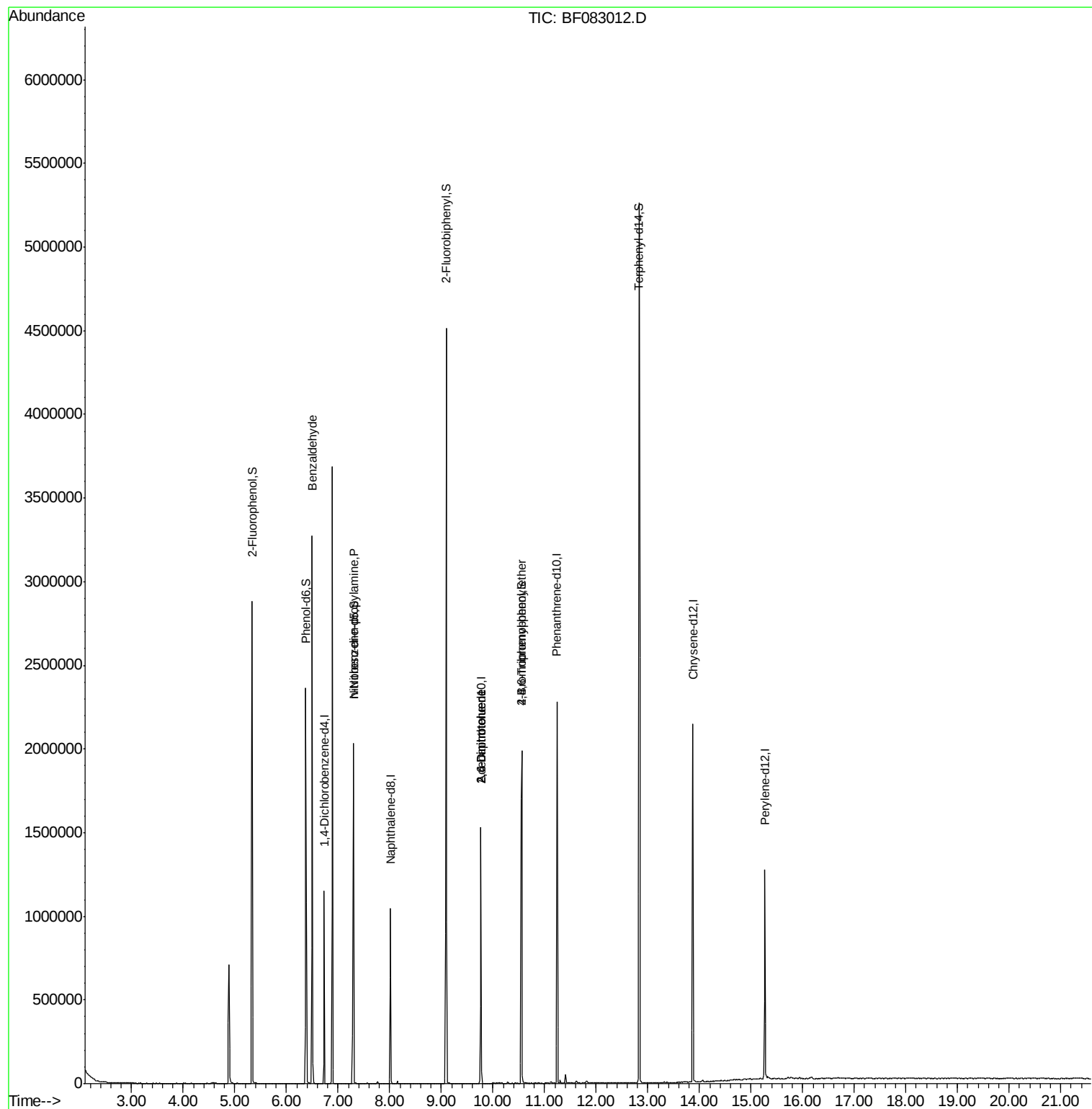
| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min)  |
|--------------------------------|-------|------|----------|-------|-------|-----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.73  | 152  | 149365   | 20.00 | ng    | -0.01     |
| 21) Naphthalene-d8             | 8.02  | 136  | 577805   | 20.00 | ng    | 0.00      |
| 38) Acenaphthene-d10           | 9.77  | 164  | 312588   | 20.00 | ng    | -0.01     |
| 63) Phenanthrene-d10           | 11.24 | 188  | 776744   | 20.00 | ng    | -0.01     |
| 75) Chrysene-d12               | 13.87 | 240  | 706320   | 20.00 | ng    | -0.02     |
| 86) Perylene-d12               | 15.27 | 264  | 553532   | 20.00 | ng    | -0.01     |
| System Monitoring Compounds    |       |      |          |       |       |           |
| 5) 2-Fluorophenol              | 5.33  | 112  | 721512   | 75.16 | ng    | 0.00      |
| 7) Phenol-d6                   | 6.37  | 99   | 963676   | 75.51 | ng    | -0.02     |
| 23) Nitrobenzene-d5            | 7.30  | 82   | 998901   | 75.22 | ng    | -0.01     |
| 41) 2,4,6-Tribromophenol       | 10.56 | 330  | 344360   | 96.08 | ng    | -0.01     |
| 44) 2-Fluorobiphenyl           | 9.09  | 172  | 1474531  | 67.61 | ng    | -0.01     |
| 78) Terphenyl-d14              | 12.83 | 244  | 2041789  | 68.56 | ng    | -0.01     |
| Target Compounds               |       |      |          |       |       |           |
| 9) Benzaldehyde                | 6.50  | 77   | 20456    | 2.90  | ng    | Qvalue 90 |
| 19) n-Nitroso-di-n-propylamine | 7.30  | 70   | 131775   | 14.05 | ng    | # 61      |
| 50) 2,6-Dinitrotoluene         | 9.77  | 165  | 40786    | 7.46  | ng    | # 17      |
| 56) 2,4-Dinitrotoluene         | 9.77  | 165  | 40786    | 5.50  | ng    | # 15      |
| 66) 4-Bromophenyl-phenylether  | 10.56 | 248  | 22901    | 2.45  | ng    | # 1       |

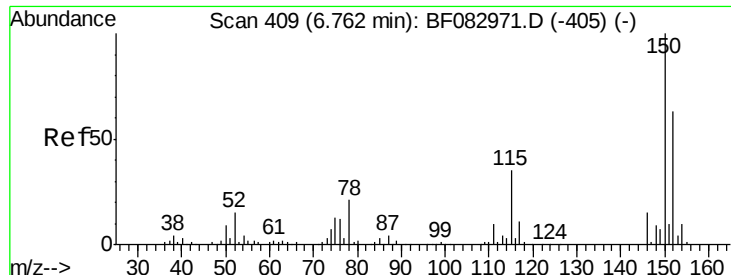
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Misc :  
ALS Vial : 8 Sample Multiplier: 1

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BNA\_F  
ClientSampleId :

Quant Time: Nov 19 01:46:08 2015  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF110715.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Nov 18 13:32:32 2015  
Response via : Initial Calibration



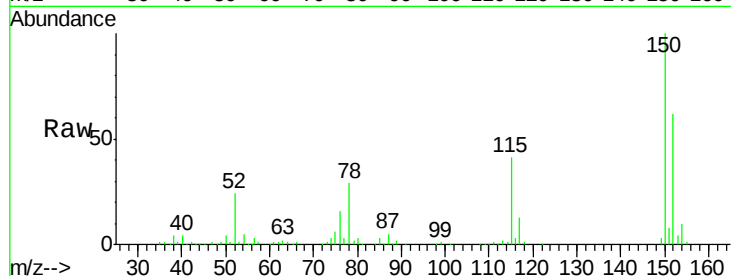


#1

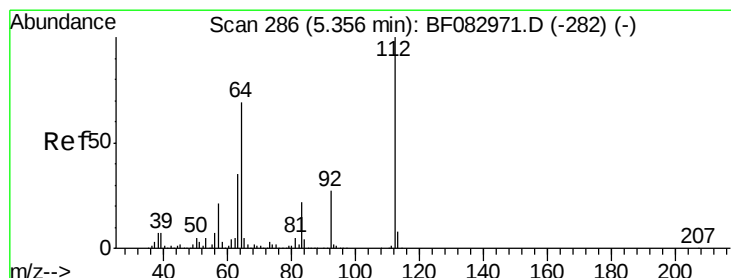
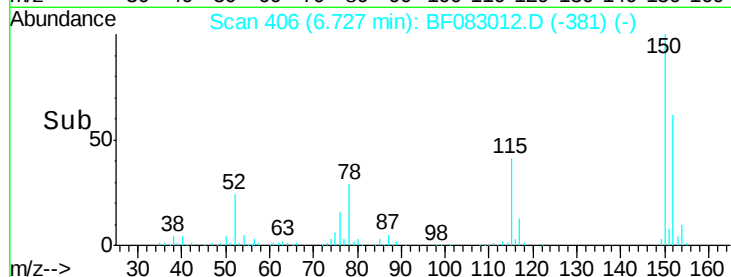
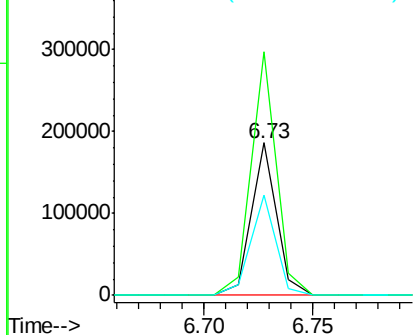
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.73 min Scan# 406  
Delta R.T. -0.01 min  
Lab File: BF083012.D  
Acq: 18 Nov 2015 16:06

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 160.0 | 127.0 | 190.4 |
| 115     | 65.8  | 47.0  | 70.6  |



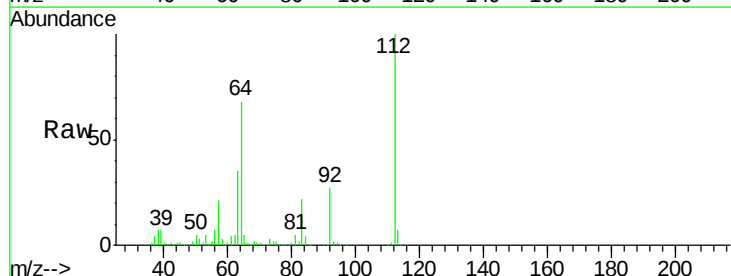
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



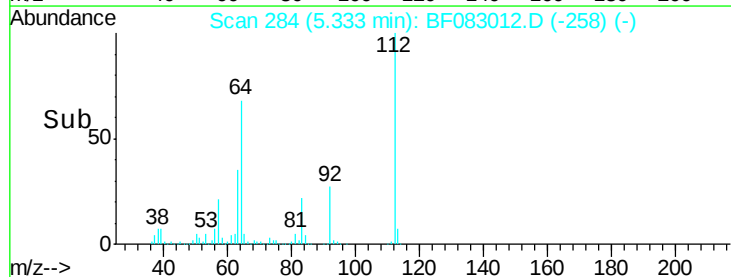
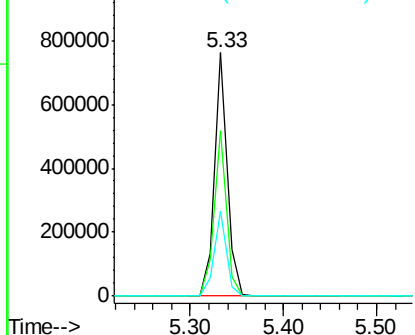
#5

2-Fluorophenol  
Concen: 75.16 ng  
RT: 5.33 min Scan# 284  
Delta R.T. -0.00 min  
Lab File: BF083012.D  
Acq: 18 Nov 2015 16:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 68.0  | 48.9  | 73.3  |
| 63      | 35.1  | 28.1  | 42.1  |



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: 75.51 ng

RT: 6.37 min Scan# 375

Delta R.T. -0.02 min

Lab File: BF083012.D

Acq: 18 Nov 2015 16:06

Instrument :

BNA\_F

ClientSampled :

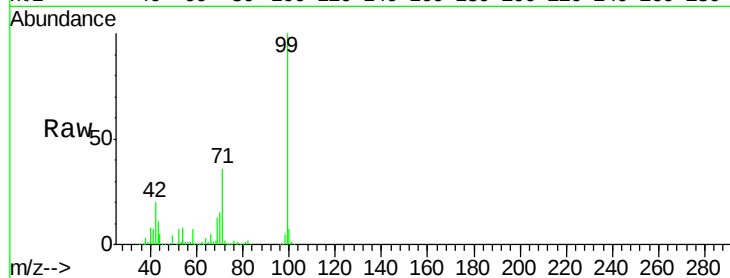
Tot Ion: 99 Resp: 963676

Ion Ratio Lower Upper

99 100

42 20.4 19.2 28.8

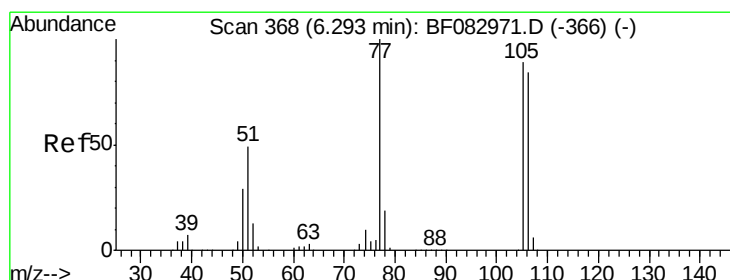
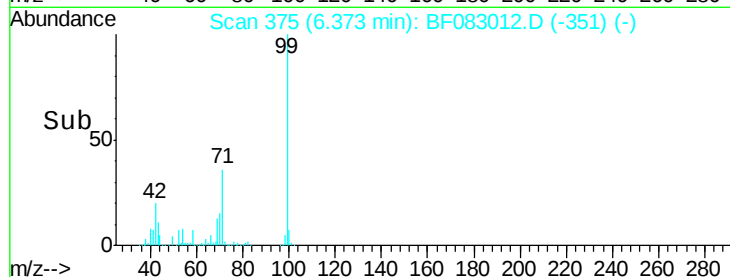
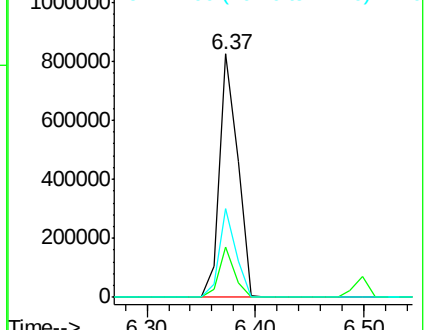
71 36.5 35.0 52.4



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: 2.90 ng

RT: 6.50 min Scan# 386

Delta R.T. 0.23 min

Lab File: BF083012.D

Acq: 18 Nov 2015 16:06

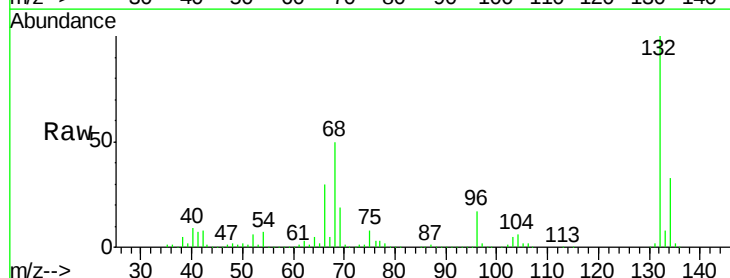
Tgt Ion: 77 Resp: 20456

Ion Ratio Lower Upper

77 100

105 77.4 63.5 103.5

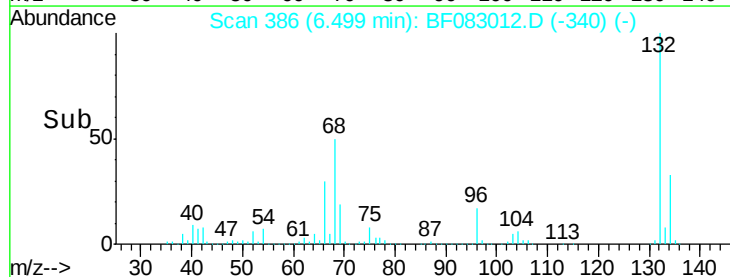
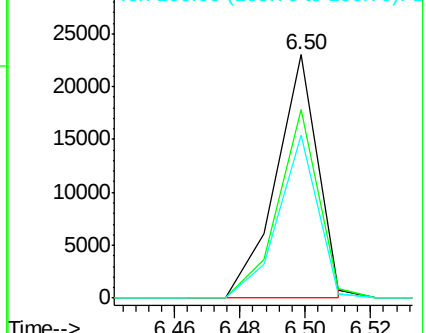
106 67.2 59.3 99.3

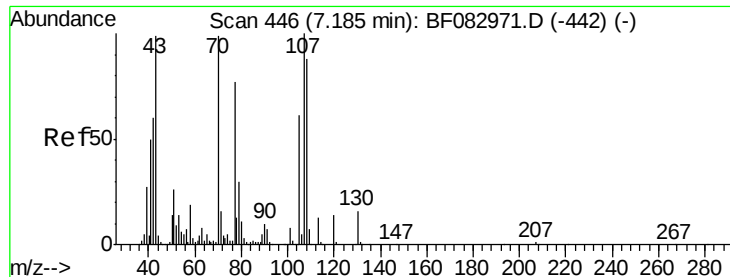


Abundance Ion 77.00 (76.70 to 77.70): BF0

Ion 105.00 (104.70 to 105.70): E

Ion 106.00 (105.70 to 106.70): E

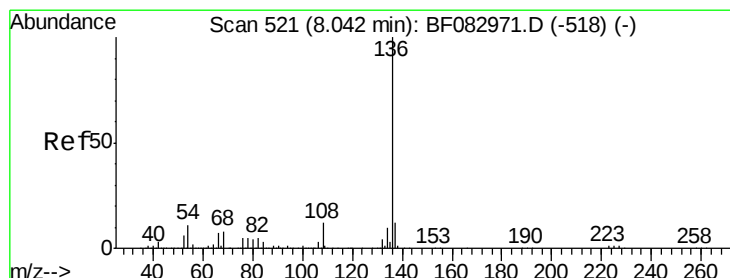
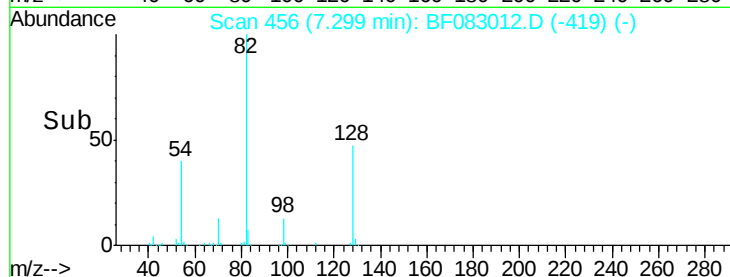
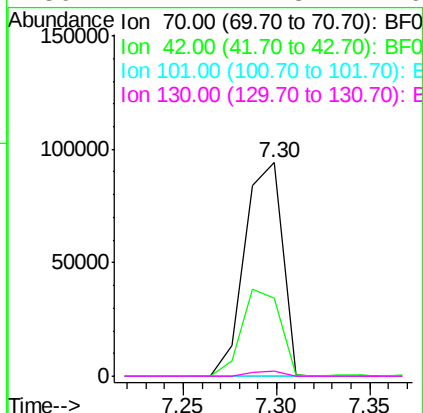
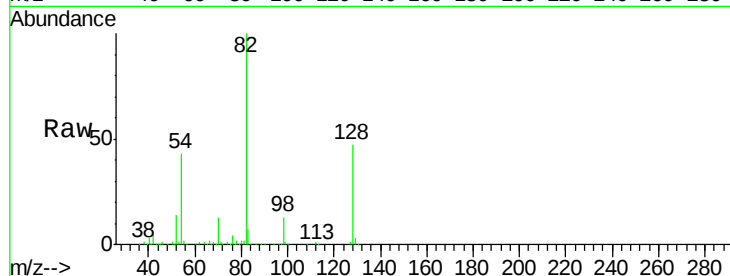




#19  
n-Nitroso-di-n-propylamine  
Concen: 14.05 ng  
RT: 7.30 min Scan# 456  
Delta R.T. 0.13 min  
Lab File: BF083012.D  
Acq: 18 Nov 2015 16:06

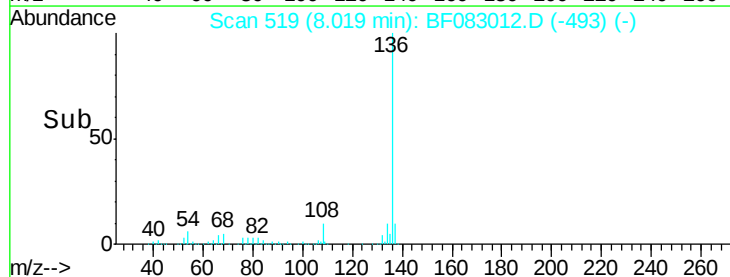
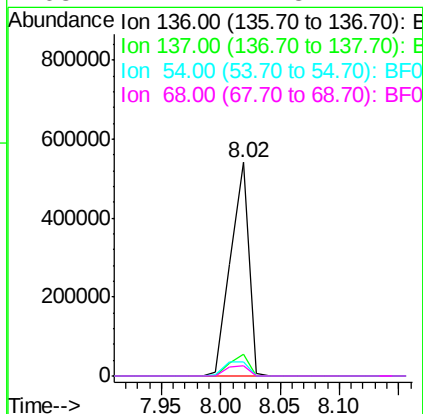
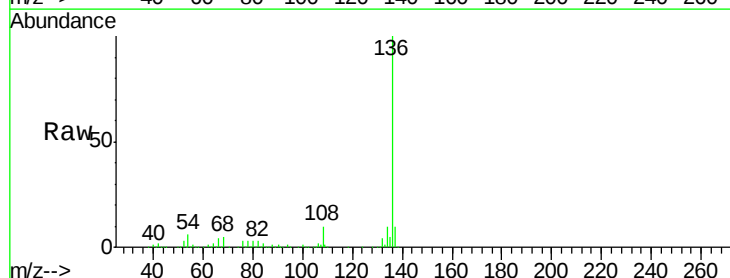
Instrument :  
BNA\_F  
ClientSampleId :

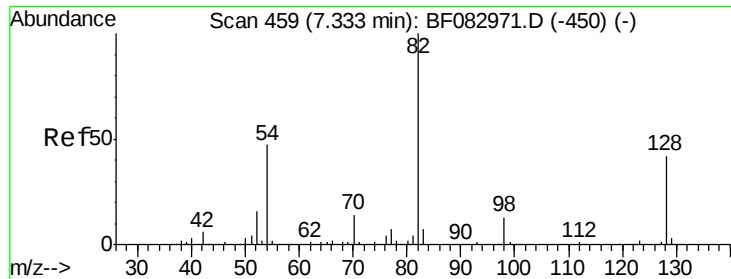
Tot Ion: 70 Resp: 131775  
Ion Ratio Lower Upper  
70 100  
42 36.6 57.7 86.5#  
101 0.0 7.0 10.6#  
130 2.2 11.8 17.6#



#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.02 min Scan# 519  
Delta R.T. -0.00 min  
Lab File: BF083012.D  
Acq: 18 Nov 2015 16:06

Tgt Ion: 136 Resp: 577805  
Ion Ratio Lower Upper  
136 100  
137 10.5 9.1 13.7  
54 6.5 9.1 13.7#  
68 4.7 4.8 7.2#

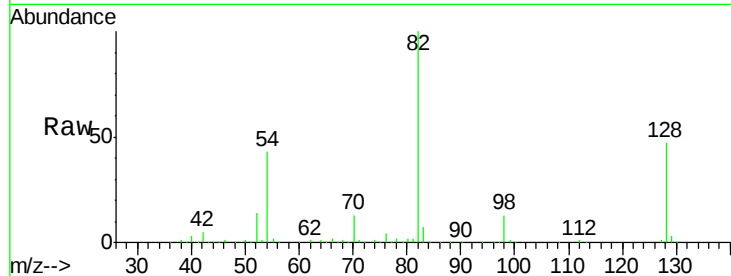




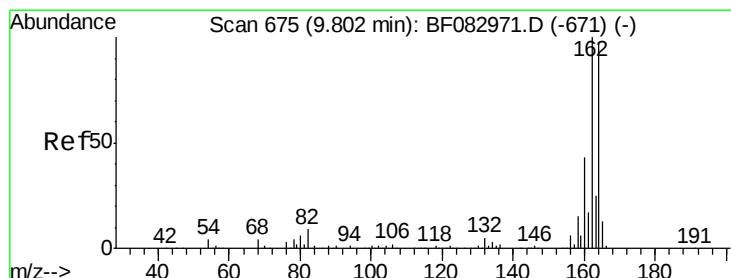
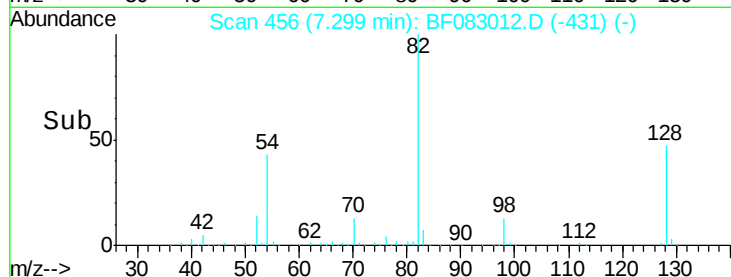
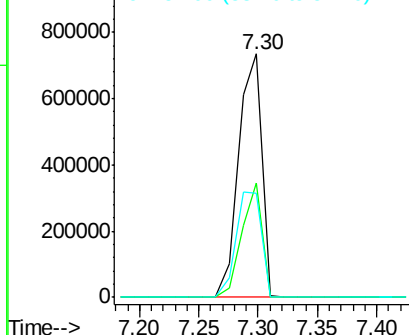
#23  
 Nitrobenzene-d5  
 Concen: 75.22 ng  
 RT: 7.30 min Scan# 456  
 Delta R.T. -0.01 min  
 Lab File: BF083012.D  
 Acq: 18 Nov 2015 16:06

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion   | 82   | Resp  | 998901 |
|-----------|------|-------|--------|
| Ion Ratio | 100  | Lower | Upper  |
| 128       | 46.8 | 26.8  | 40.2#  |
| 54        | 43.0 | 45.7  | 68.5#  |

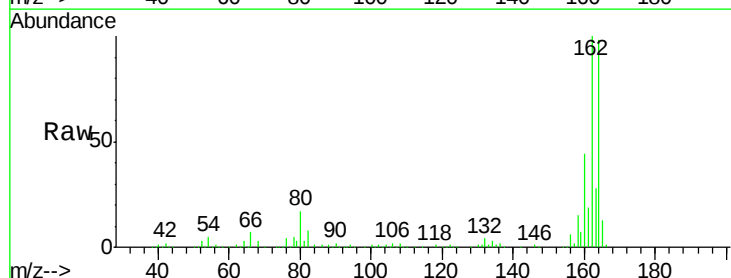


Abundance Ion 82.00 (81.70 to 82.70): BF0  
 Ion 128.00 (127.70 to 128.70): E  
 Ion 54.00 (53.70 to 54.70): BF0

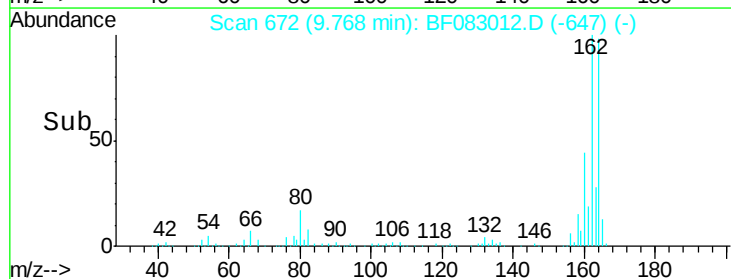
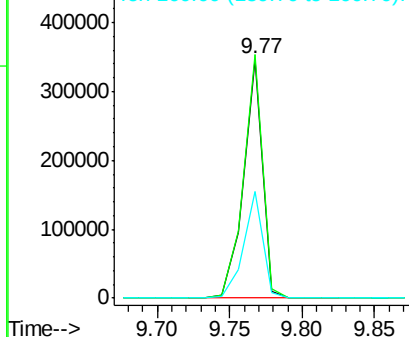


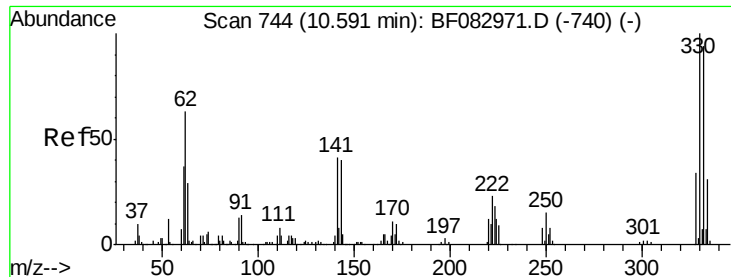
#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.77 min Scan# 672  
 Delta R.T. -0.01 min  
 Lab File: BF083012.D  
 Acq: 18 Nov 2015 16:06

| Tgt Ion   | 164   | Resp  | 312588 |
|-----------|-------|-------|--------|
| Ion Ratio | 100   | Lower | Upper  |
| 162       | 102.1 | 84.9  | 127.3  |
| 160       | 44.8  | 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: 96.08 ng

RT: 10.56 min Scan# 741

Delta R.T. -0.01 min

Lab File: BF083012.D

Acq: 18 Nov 2015 16:06

Instrument :

BNA\_F

ClientSampleId :

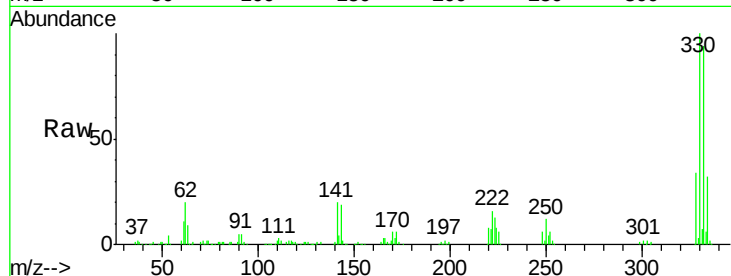
Tot Ion:330 Resp: 344360

Ion Ratio Lower Upper

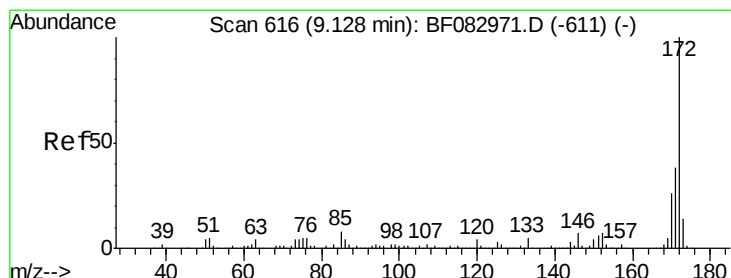
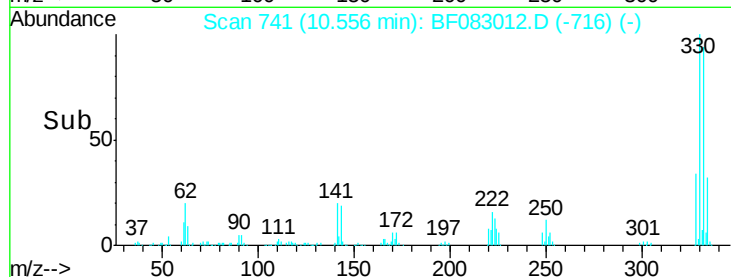
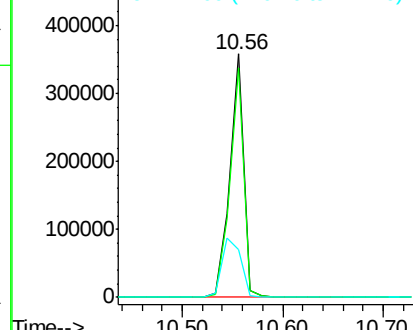
330 100

332 94.5 76.6 114.8

141 33.4 41.2 61.8#



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: 67.61 ng

RT: 9.09 min Scan# 613

Delta R.T. -0.01 min

Lab File: BF083012.D

Acq: 18 Nov 2015 16:06

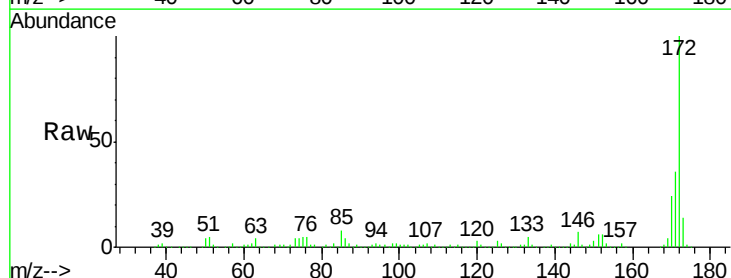
Tgt Ion:172 Resp: 1474531

Ion Ratio Lower Upper

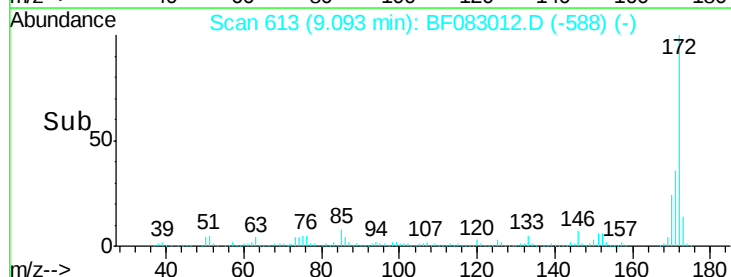
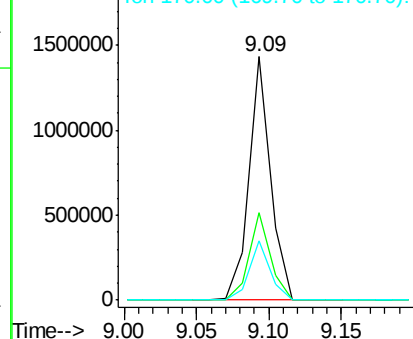
172 100

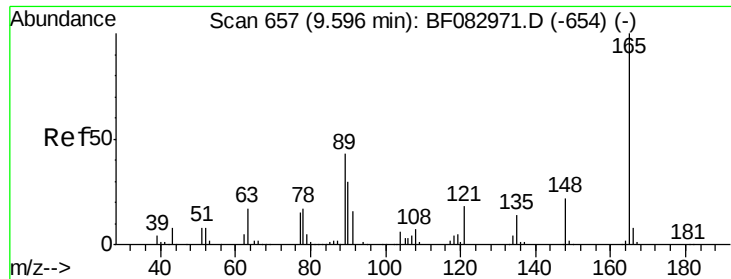
171 36.0 30.8 46.2

170 24.3 21.2 31.8



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





#50

2,6-Dinitrotoluene

Concen: 7.46 ng

RT: 9.77 min Scan# 672

Delta R.T. 0.19 min

Lab File: BF083012.D

Acq: 18 Nov 2015 16:06

Instrument :

BNA\_F

ClientSampleId :

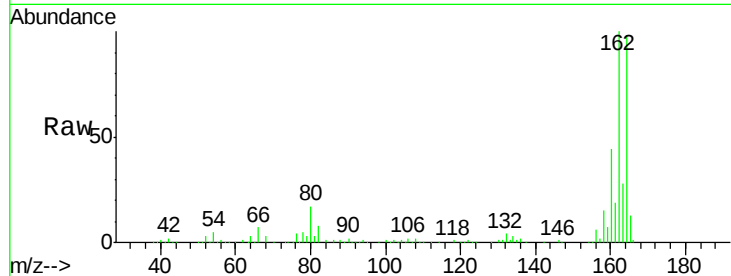
Tot Ion:165 Resp: 40786

Ion Ratio Lower Upper

165 100

63 1.4 55.5 83.3#

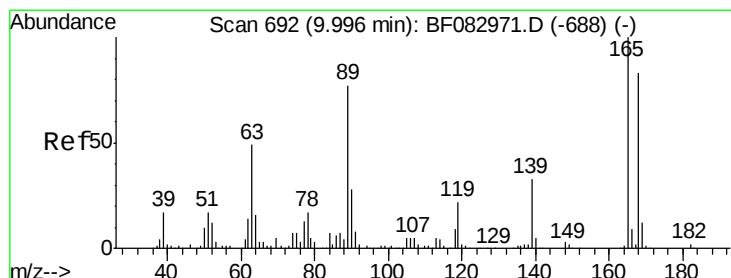
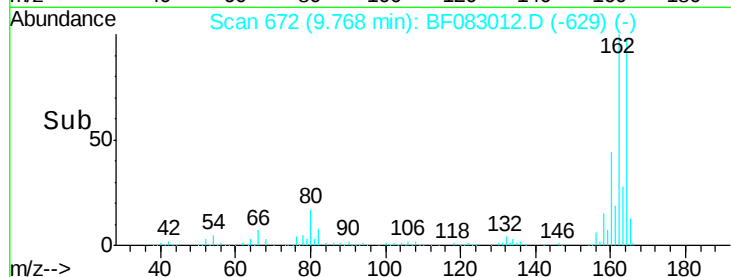
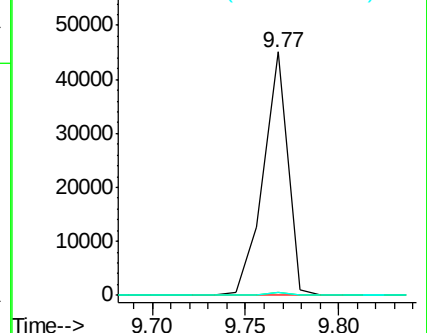
89 1.3 55.0 82.6#



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



#56

2,4-Dinitrotoluene

Concen: 5.50 ng

RT: 9.77 min Scan# 672

Delta R.T. -0.21 min

Lab File: BF083012.D

Acq: 18 Nov 2015 16:06

Tgt Ion:165 Resp: 40786

Ion Ratio Lower Upper

165 100

63 1.4 43.4 65.0#

89 1.3 70.6 106.0#

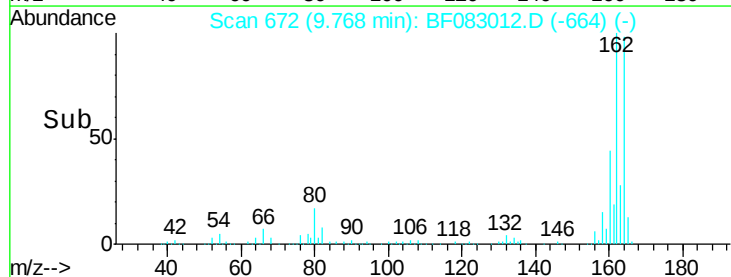
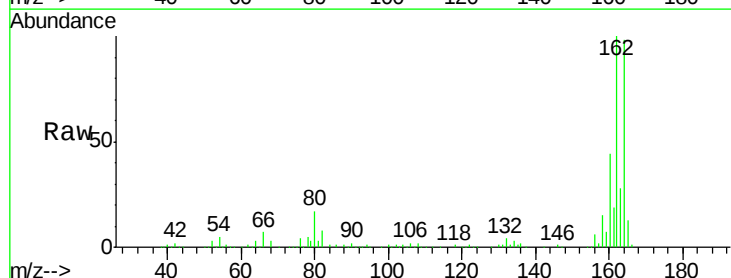
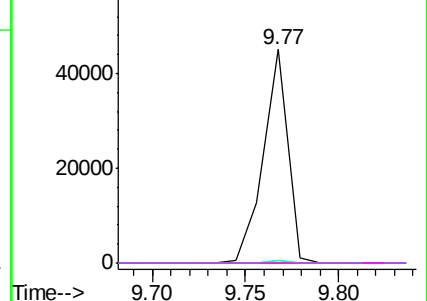
182 0.0 1.5 2.3#

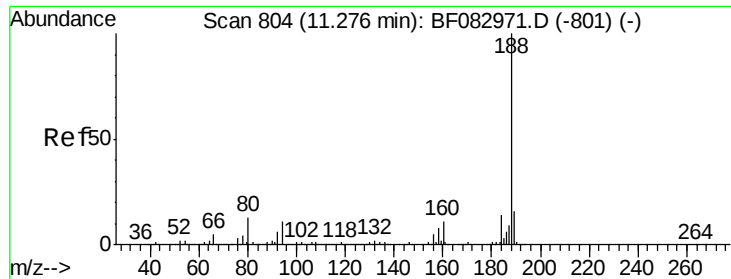
Abundance Ion 165.00 (164.70 to 165.70): E

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

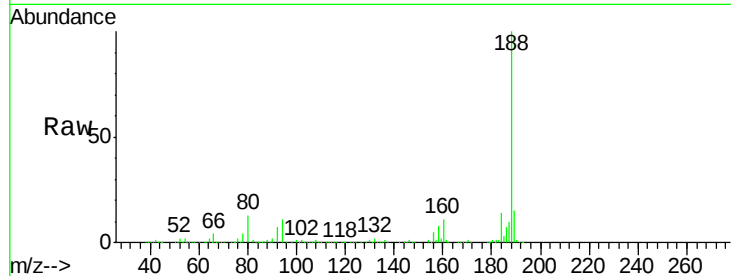




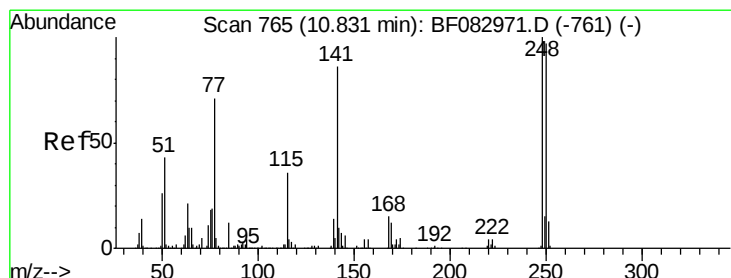
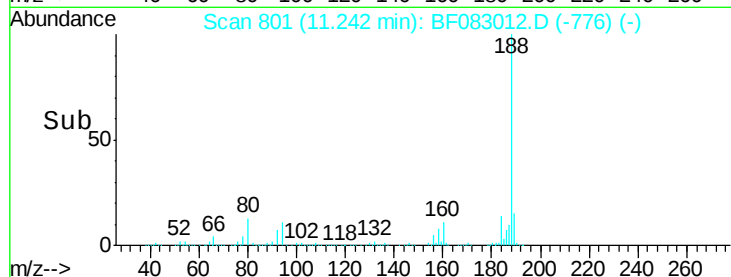
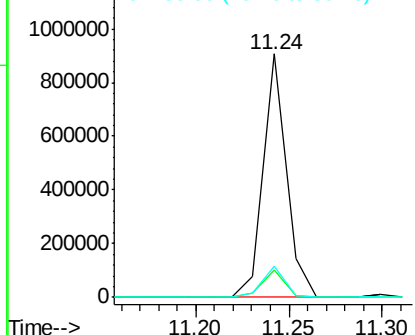
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.24 min Scan# 801  
Delta R.T. -0.01 min  
Lab File: BF083012.D  
Acq: 18 Nov 2015 16:06

Instrument :  
BNA\_F  
ClientSampled :

Tot Ion:188 Resp: 776744  
Ion Ratio Lower Upper  
188 100  
94 11.4 6.1 9.1#  
80 12.9 7.0 10.6#

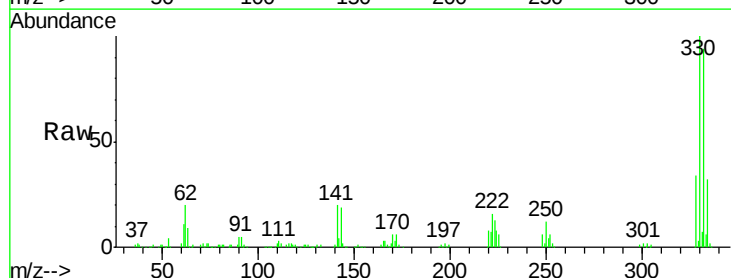


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF0  
Ion 80.00 (79.70 to 80.70): BF0

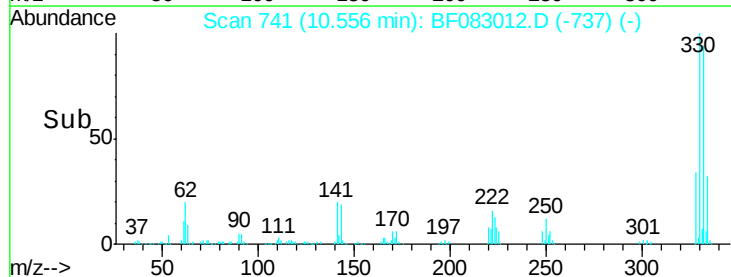
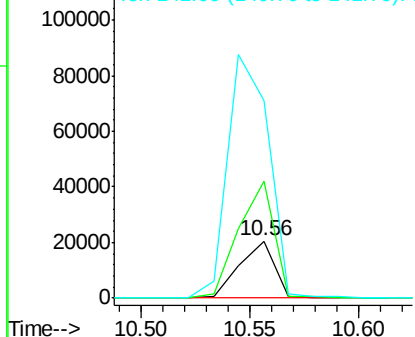


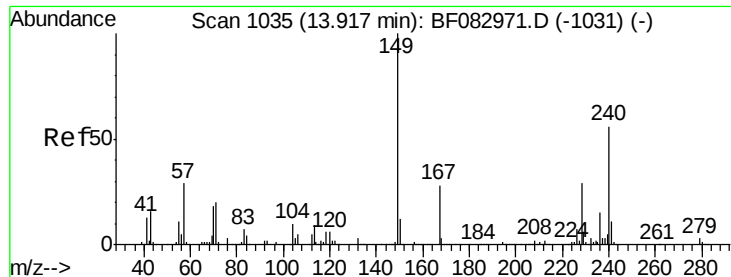
#66  
4-Bromophenyl-phenylether  
Concen: 2.45 ng  
RT: 10.56 min Scan# 741  
Delta R.T. -0.25 min  
Lab File: BF083012.D  
Acq: 18 Nov 2015 16:06

Tgt Ion:248 Resp: 22901  
Ion Ratio Lower Upper  
248 100  
250 204.1 79.4 119.2#  
141 344.1 36.3 54.5#



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: 13.87 min Scan# 1031

Delta R.T. -0.02 min

Lab File: BF083012.D

Acq: 18 Nov 2015 16:06

Instrument :

BNA\_F

ClientSampled :

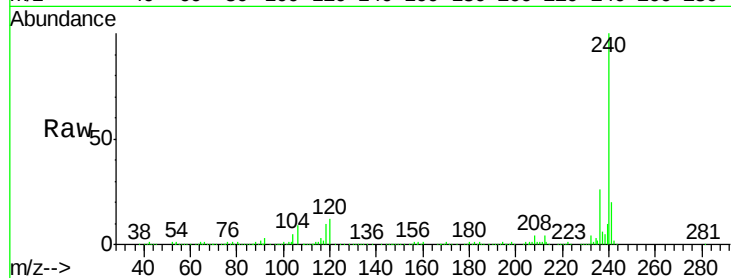
Tot Ion:240 Resp: 706320

Ion Ratio Lower Upper

240 100

120 12.2 10.9 16.3

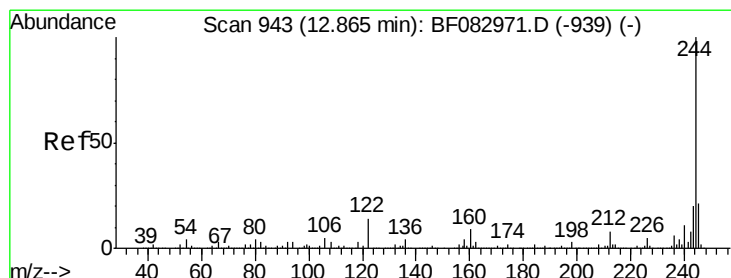
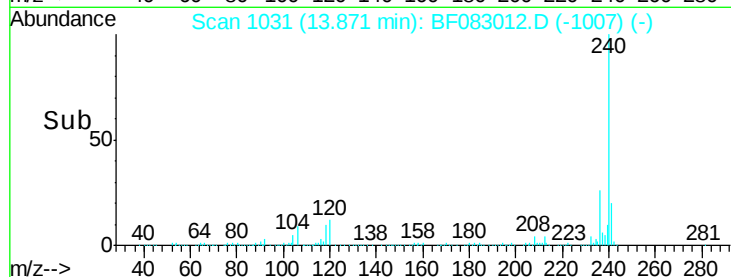
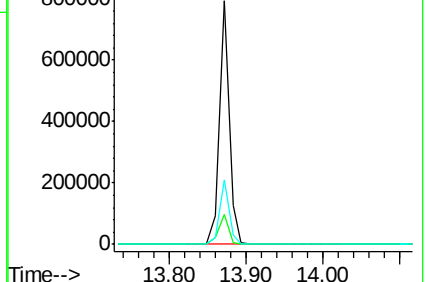
236 26.3 21.6 32.4



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: 68.56 ng

RT: 12.83 min Scan# 940

Delta R.T. -0.01 min

Lab File: BF083012.D

Acq: 18 Nov 2015 16:06

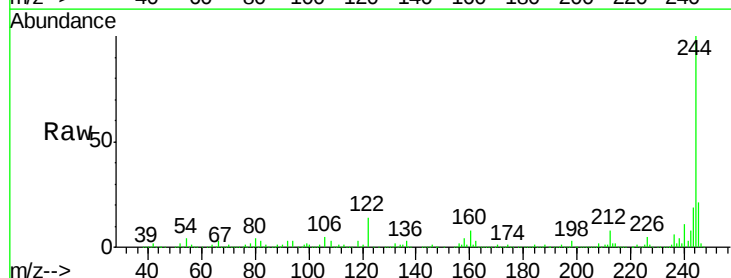
Tgt Ion:244 Resp: 2041789

Ion Ratio Lower Upper

244 100

212 8.4 7.6 11.4

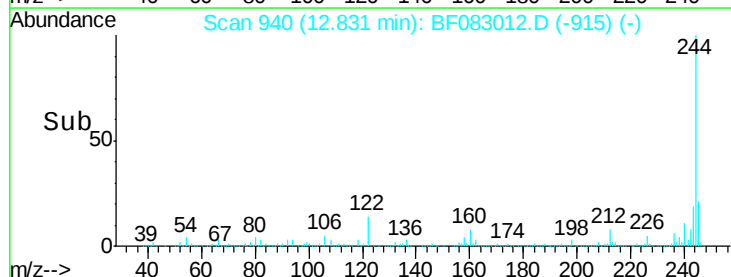
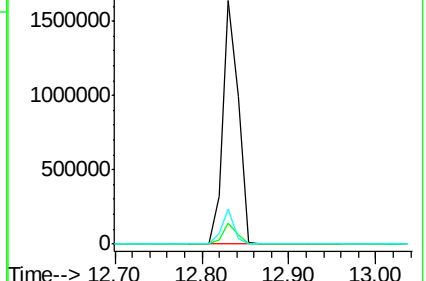
122 14.2 11.3 16.9

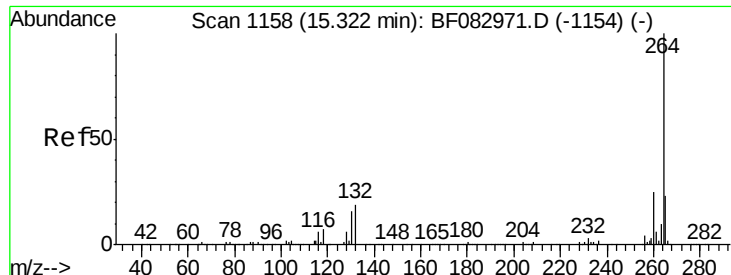


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

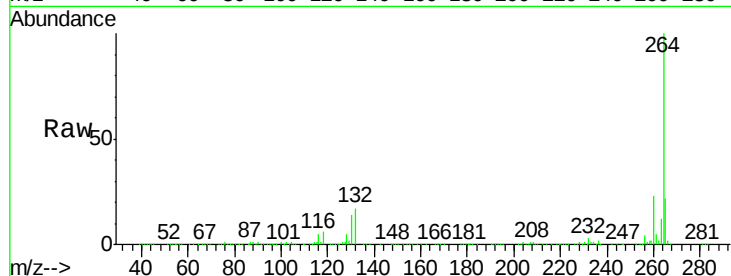




#86  
 Pervlene-d12  
 Concen: 20.00 ng  
 RT: 15.27 min Scan# 1153  
 Delta R.T. -0.01 min  
 Lab File: BF083012.D  
 Acq: 18 Nov 2015 16:06

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.4  | 19.8  | 29.6  |
| 265     | 21.6  | 17.4  | 26.0  |



Abundance Ion 264.00 (263.70 to 264.70): E  
 Ion 260.00 (259.70 to 260.70): E  
 Ion 265.00 (264.70 to 265.70): E

