

Data Path : Z:\HPCHEM1\BNA F\DATA\BF112515\  
 Data File : BF083309.D  
 Acq On : 26 Nov 2015 10:06  
 Operator : UM/IZ  
 Sample : G4572-02  
 Misc :  
 ALS Vial : 34 Sample Multiplier: 1

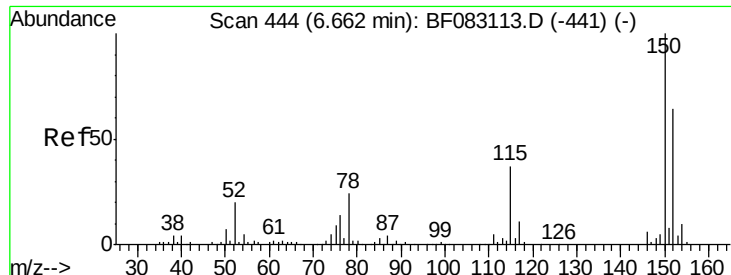
Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Nov 26 12:41:39 2015  
 Quant Method : Z:\HPCHEM1\BNA F\Methods\8270-BF112115.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sun Nov 22 09:22:46 2015  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.59  | 152  | 139982   | 20.00 | ng    | -0.07    |
| 21) Naphthalene-d8             | 7.87  | 136  | 474525   | 20.00 | ng    | -0.08    |
| 38) Acenaphthene-d10           | 9.62  | 164  | 197981   | 20.00 | ng    | -0.08    |
| 63) Phenanthrene-d10           | 11.10 | 188  | 345996   | 20.00 | ng    | -0.08    |
| 75) Chrysene-d12               | 13.73 | 240  | 402153   | 20.00 | ng    | -0.08    |
| 86) Perylene-d12               | 15.07 | 264  | 286734   | 20.00 | ng    | -0.09    |
| System Monitoring Compounds    |       |      |          |       |       |          |
| 5) 2-Fluorophenol              | 5.19  | 112  | 388831   | 42.00 | ng    | -0.09    |
| 7) Phenol-d6                   | 6.25  | 99   | 326569   | 27.26 | ng    | -0.09    |
| 23) Nitrobenzene-d5            | 7.16  | 82   | 1026630  | 98.86 | ng    | -0.07    |
| 41) 2,4,6-Tribromophenol       | 10.41 | 330  | 158041   | 78.03 | ng    | -0.08    |
| 44) 2-Fluorobiphenyl           | 8.96  | 172  | 1303614  | 91.82 | ng    | -0.07    |
| 78) Terphenyl-d14              | 12.69 | 244  | 1217990  | 71.32 | ng    | -0.08    |
| Target Compounds               |       |      |          |       |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.16  | 70   | 139757   | 16.76 | ng    | # 73     |
| 50) 2,6-Dinitrotoluene         | 9.62  | 165  | 25779    | 7.54  | ng    | # 13     |
| 56) 2,4-Dinitrotoluene         | 9.62  | 165  | 25779    | 5.95  | ng    | # 10     |
| 66) 4-Bromophenyl-phenylether  | 10.41 | 248  | 10788    | 2.81  | ng    | # 1      |

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



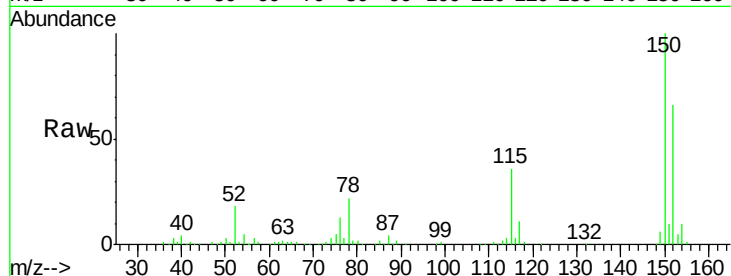


#1

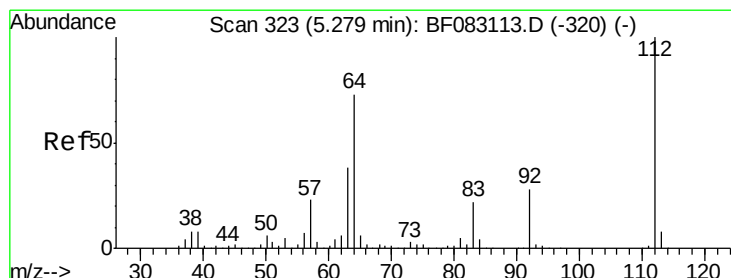
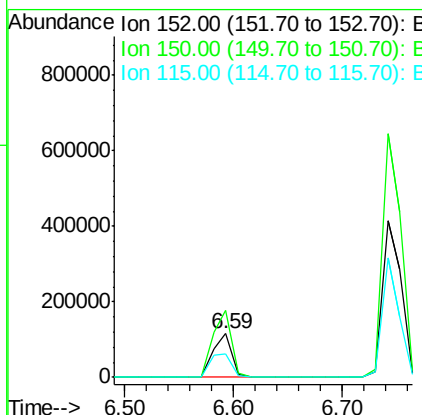
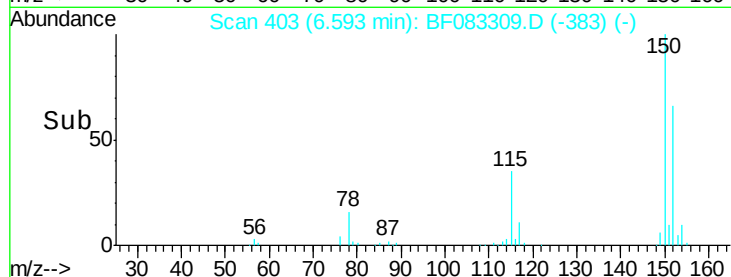
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.59 min Scan# 403  
Delta R.T. -0.07 min  
Lab File: BF083309.D  
Acq: 26 Nov 2015 10:06

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 152.2 | 125.8 | 188.8 |
| 115     | 54.4  | 46.9  | 70.3  |



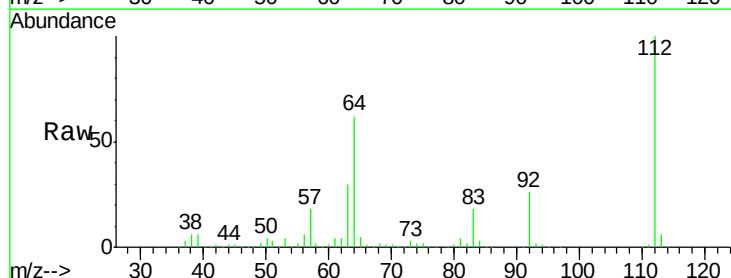
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



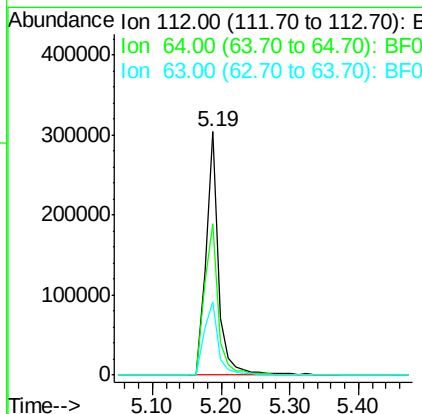
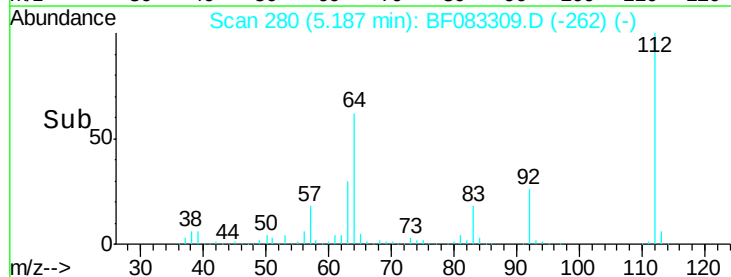
#5

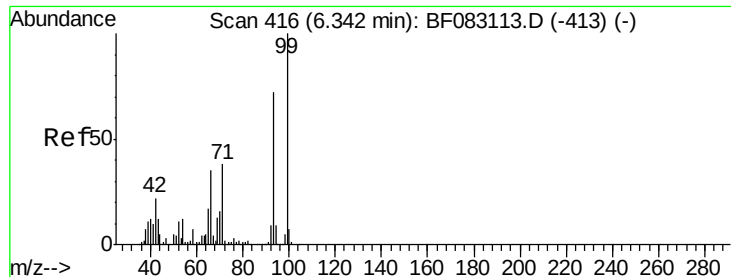
2-Fluorophenol  
Concen: 42.00 ng  
RT: 5.19 min Scan# 280  
Delta R.T. -0.09 min  
Lab File: BF083309.D  
Acq: 26 Nov 2015 10:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 62.0  | 58.4  | 87.6  |
| 63      | 30.1  | 30.0  | 45.0  |



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: 27.26 ng

RT: 6.25 min Scan# 373

Delta R.T. -0.09 min

Lab File: BF083309.D

Acq: 26 Nov 2015 10:06

Instrument :

BNA\_F

ClientSampleId :

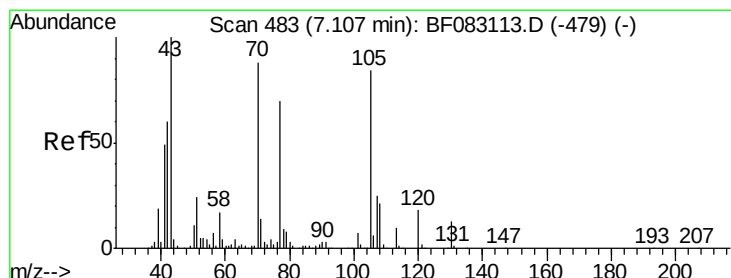
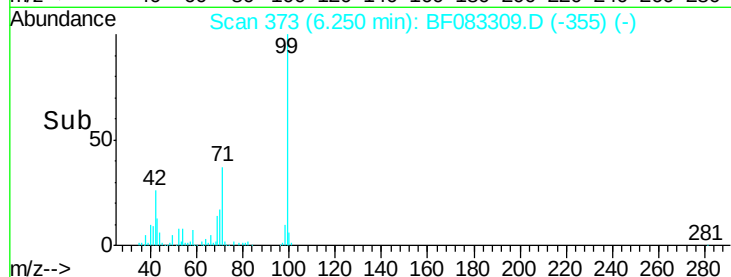
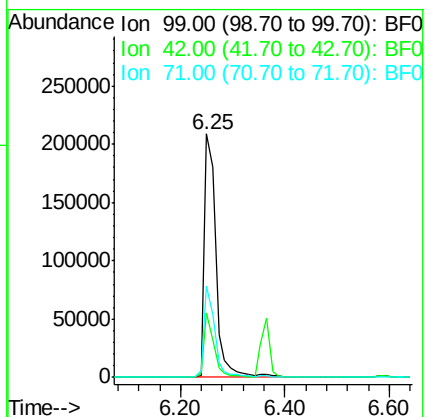
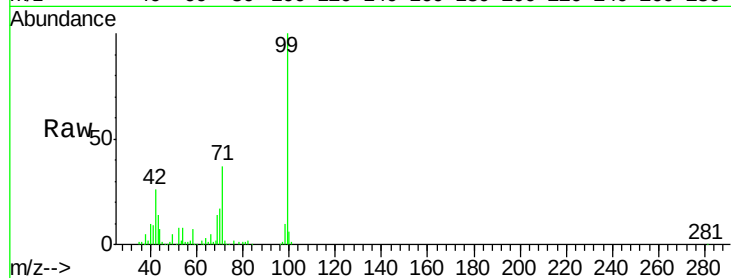
Tot Ion: 99 Resp: 326569

Ion Ratio Lower Upper

99 100

42 26.3 17.7 26.5

71 37.4 30.2 45.4



#19

n-Nitroso-di-n-propylamine

Concen: 16.76 ng

RT: 7.16 min Scan# 453

Delta R.T. 0.06 min

Lab File: BF083309.D

Acq: 26 Nov 2015 10:06

Tgt Ion: 70 Resp: 139757

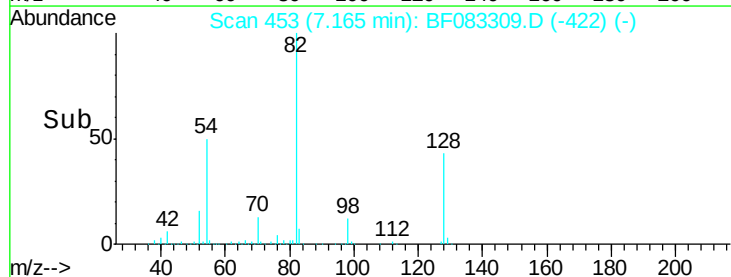
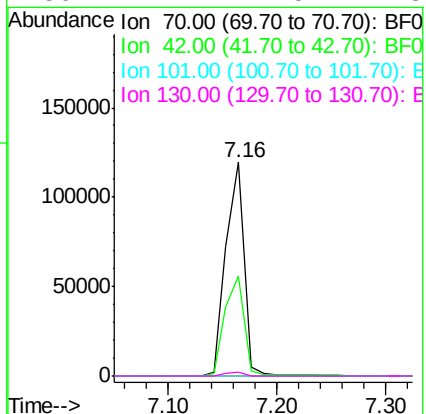
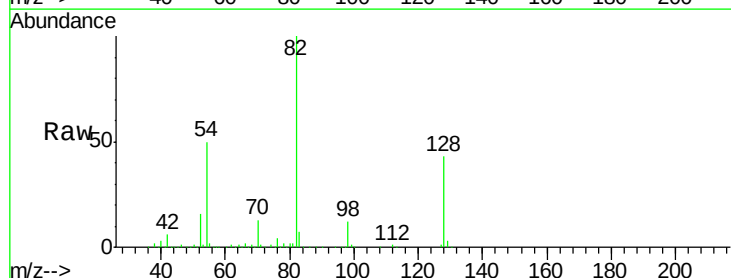
Ion Ratio Lower Upper

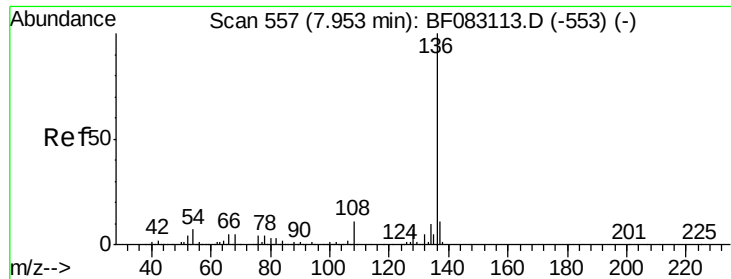
70 100

42 46.8 54.5 81.7#

101 0.0 6.6 9.8#

130 2.1 11.5 17.3#





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.87 min Scan# 515

Delta R.T. -0.08 min

Lab File: BF083309.D

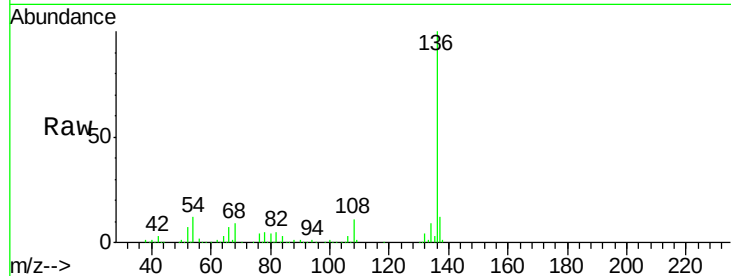
Acq: 26 Nov 2015 10:06

Instrument :

BNA\_F

ClientSampleId :

|             |       |        |
|-------------|-------|--------|
| Tot Ion:136 | Resp: | 474525 |
| Ion Ratio   | Lower | Upper  |
| 136 100     |       |        |
| 137 11.6    | 8.7   | 13.1   |
| 54 12.4     | 5.8   | 8.6#   |
| 68 8.6      | 3.8   | 5.8#   |

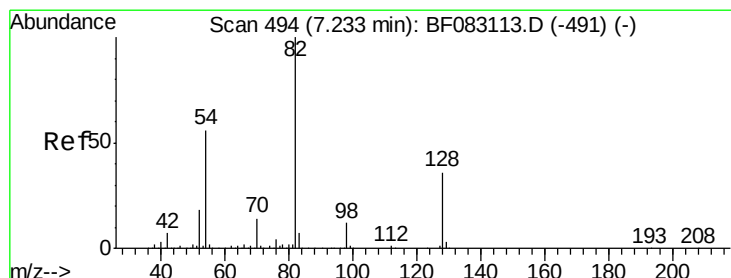
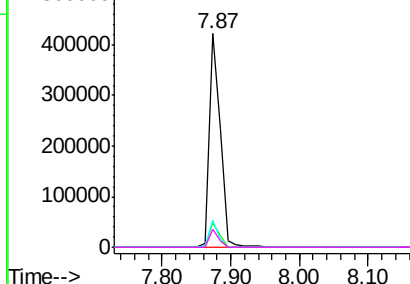
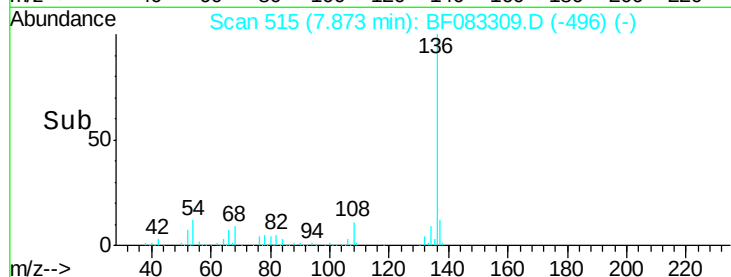


Abundance Ion 136.00 (135.70 to 136.70): E

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: 98.86 ng

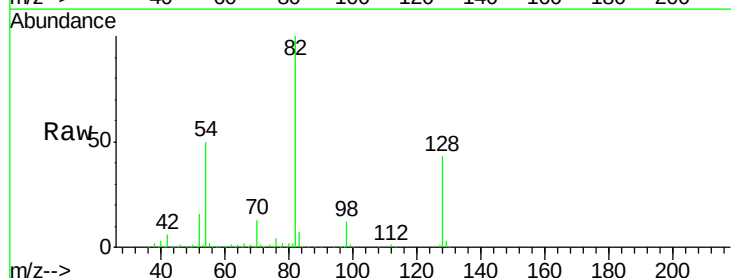
RT: 7.16 min Scan# 453

Delta R.T. -0.07 min

Lab File: BF083309.D

Acq: 26 Nov 2015 10:06

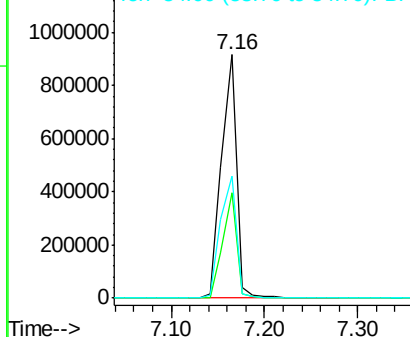
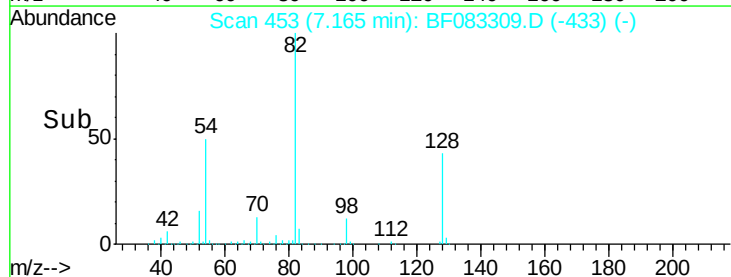
|             |               |       |  |
|-------------|---------------|-------|--|
| Tgt Ion: 82 | Resp: 1026630 |       |  |
| Ion Ratio   | Lower         | Upper |  |
| 82 100      |               |       |  |
| 128 43.1    | 28.5          | 42.7# |  |
| 54 50.1     | 44.6          | 67.0  |  |

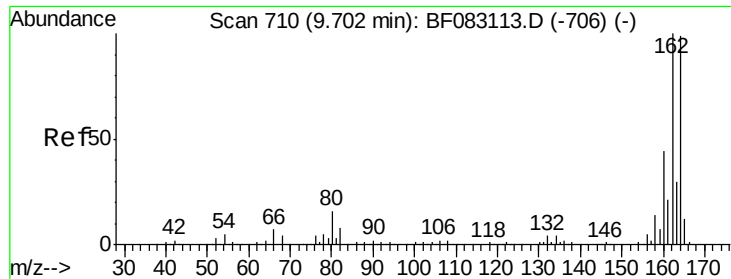


Abundance Ion 82.00 (81.70 to 82.70): BF0

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: 9.62 min Scan# 668

Delta R.T. -0.08 min

Lab File: BF083309.D

Acq: 26 Nov 2015 10:06

Instrument :

BNA\_F

ClientSampleId :

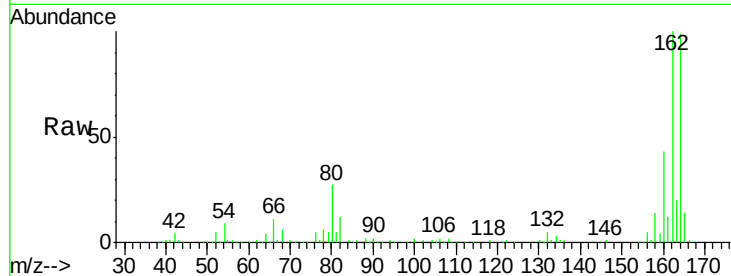
Tot Ion:164 Resp: 197981

Ion Ratio Lower Upper

164 100

162 100.6 81.2 121.8

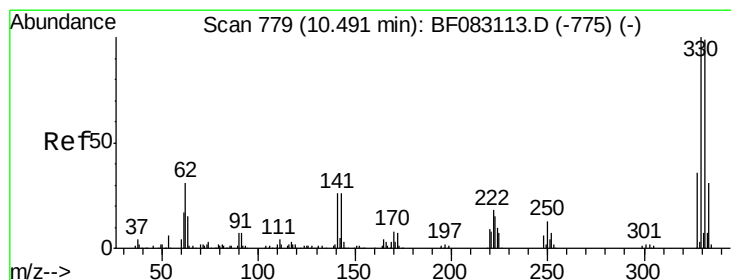
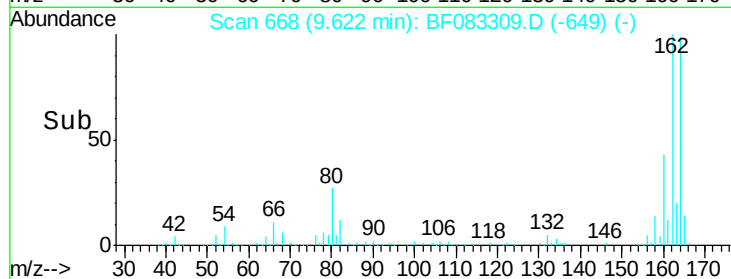
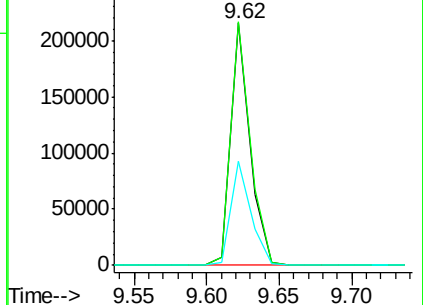
160 42.8 35.6 53.4



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: 78.03 ng

RT: 10.41 min Scan# 737

Delta R.T. -0.08 min

Lab File: BF083309.D

Acq: 26 Nov 2015 10:06

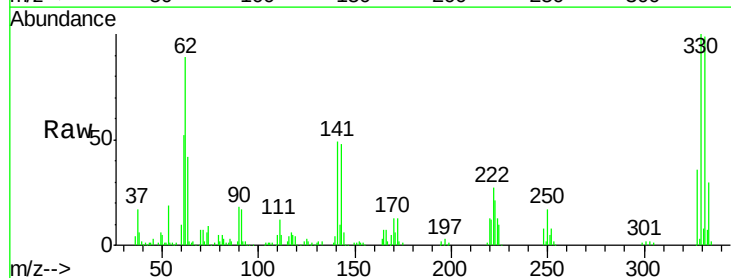
Tgt Ion:330 Resp: 158041

Ion Ratio Lower Upper

330 100

332 97.5 77.7 116.5

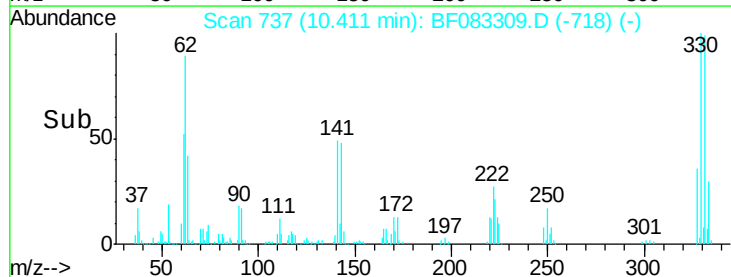
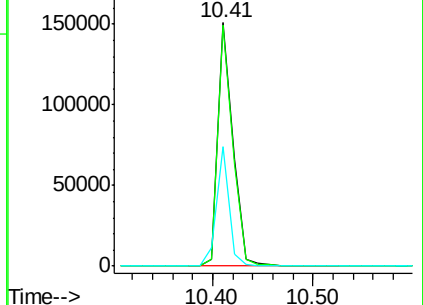
141 40.7 29.7 44.5

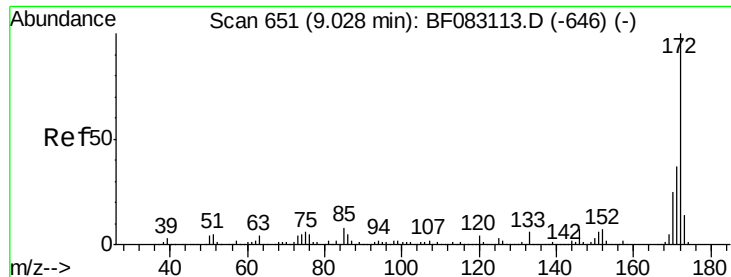


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

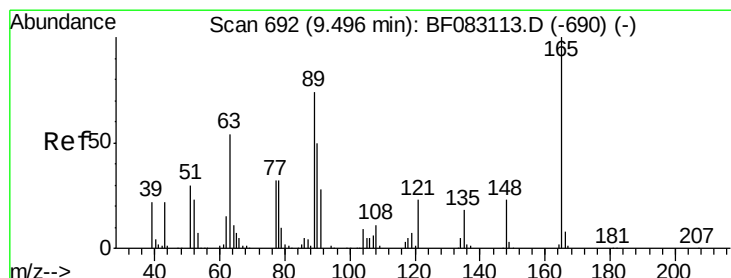
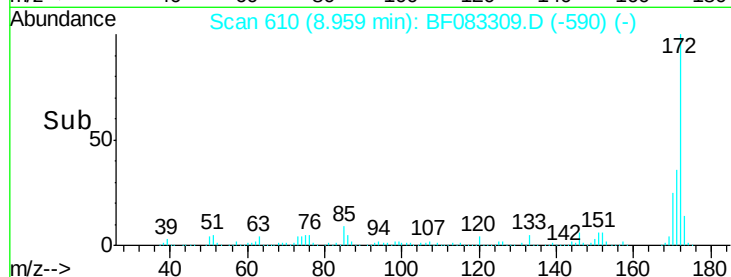
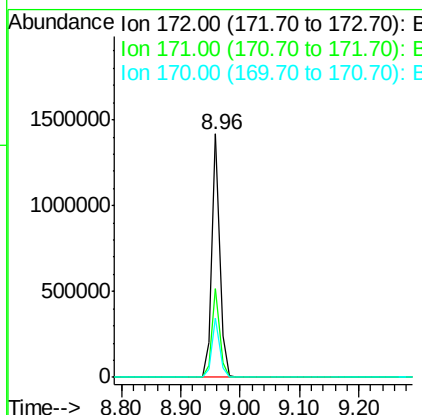
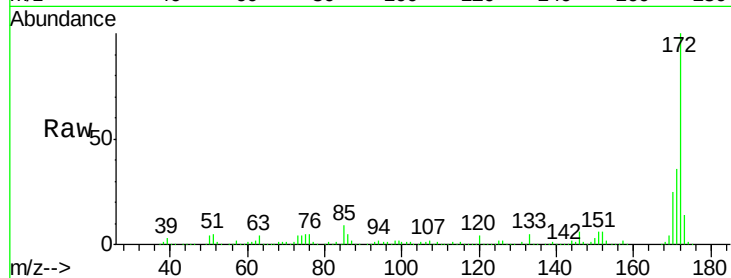




#44  
 2-Fluorobiphenyl  
 Concen: 91.82 ng  
 RT: 8.96 min Scan# 610  
 Delta R.T. -0.07 min  
 Lab File: BF083309.D  
 Acq: 26 Nov 2015 10:06

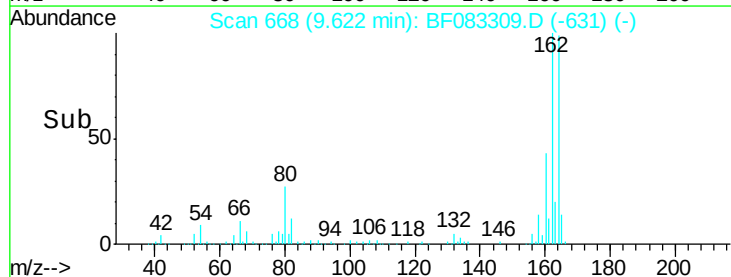
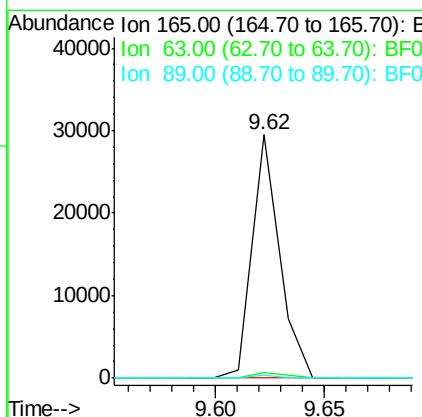
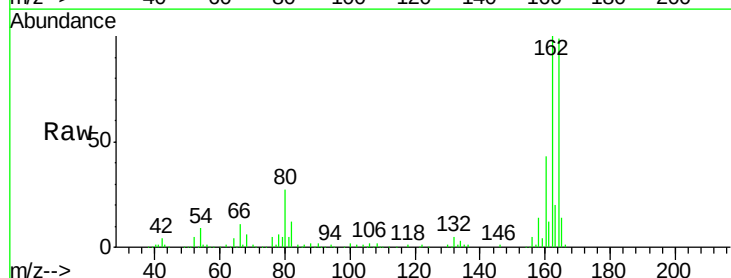
Instrument :  
 BNA\_F  
 ClientSampleId :

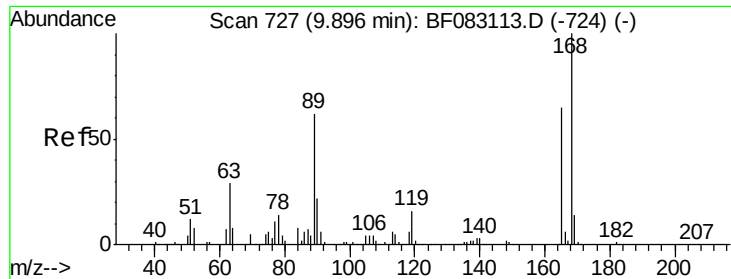
Tot Ion:172 Resp: 1303614  
 Ion Ratio Lower Upper  
 172 100  
 171 36.3 29.5 44.3  
 170 24.5 19.9 29.9



#50  
 2,6-Dinitrotoluene  
 Concen: 7.54 ng  
 RT: 9.62 min Scan# 668  
 Delta R.T. 0.13 min  
 Lab File: BF083309.D  
 Acq: 26 Nov 2015 10:06

Tgt Ion:165 Resp: 25779  
 Ion Ratio Lower Upper  
 165 100  
 63 2.1 62.5 93.7#  
 89 1.3 59.1 88.7#

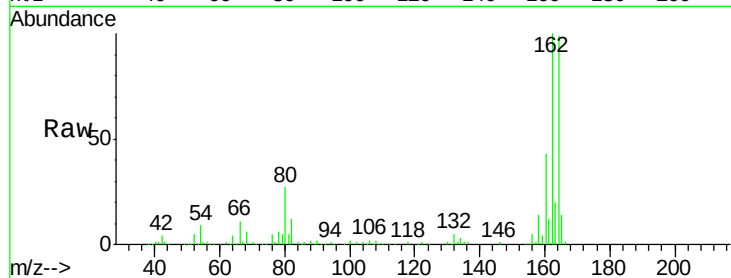




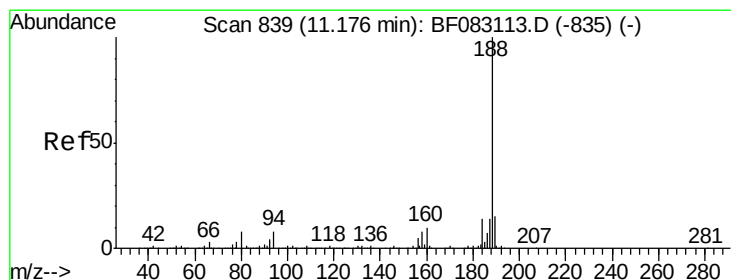
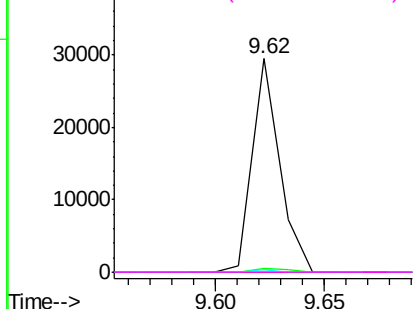
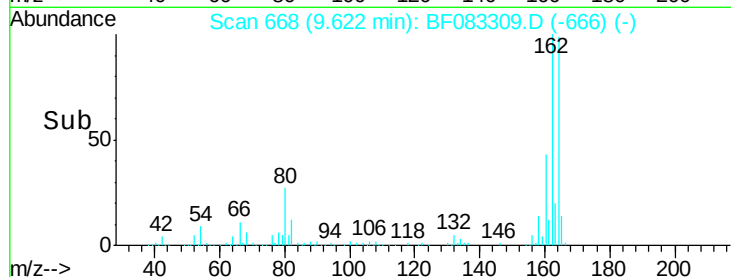
#56  
 2,4-Dinitrotoluene  
 Concen: 5.95 ng  
 RT: 9.62 min Scan# 668  
 Delta R.T. -0.27 min  
 Lab File: BF083309.D  
 Acq: 26 Nov 2015 10:06

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:165 Resp: 25779  
 Ion Ratio Lower Upper  
 165 100  
 63 2.1 54.5 81.7#  
 89 1.3 77.3 115.9#  
 182 0.0 1.8 2.6#

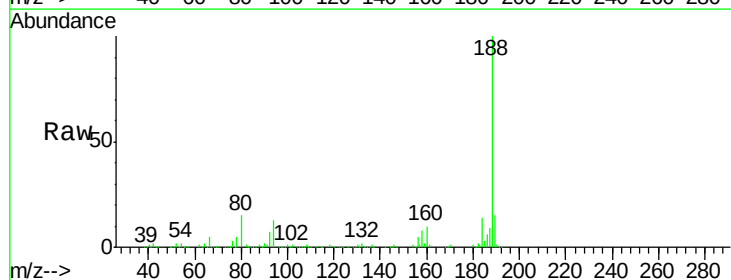


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BF0  
 Ion 89.00 (88.70 to 89.70): BF0  
 Ion 182.00 (181.70 to 182.70): E

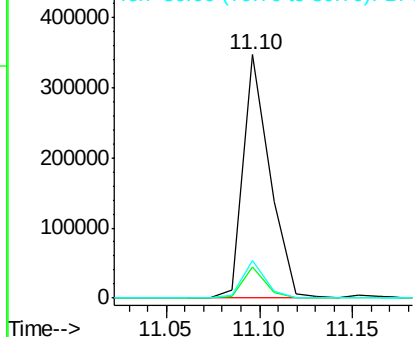
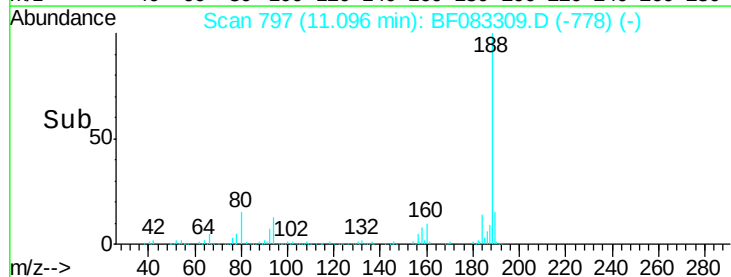


#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 11.10 min Scan# 797  
 Delta R.T. -0.08 min  
 Lab File: BF083309.D  
 Acq: 26 Nov 2015 10:06

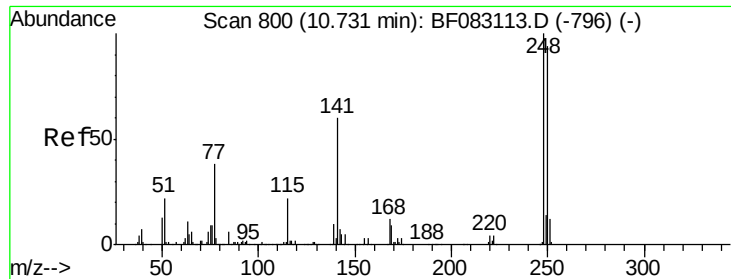
Tgt Ion:188 Resp: 345996  
 Ion Ratio Lower Upper  
 188 100  
 94 13.0 6.0 9.0#  
 80 15.2 6.7 10.1#



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



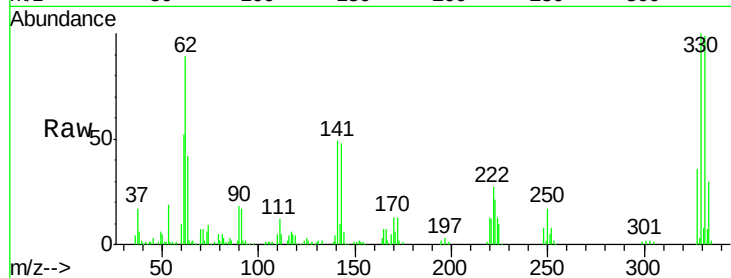




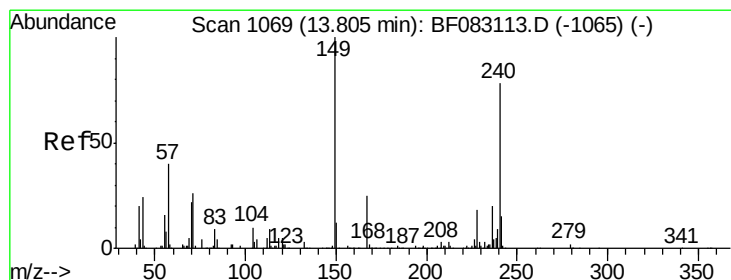
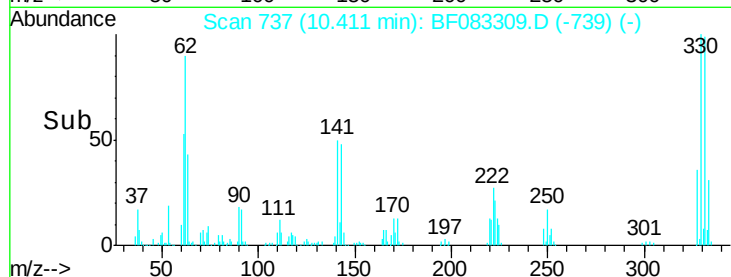
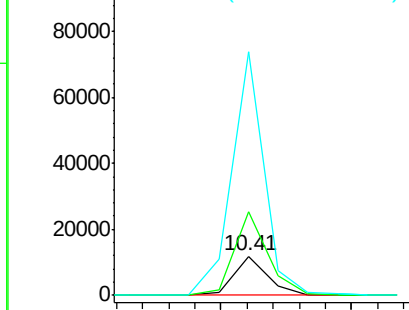
#66  
 4-Bromophenyl-phenylether  
 Concen: 2.81 ng  
 RT: 10.41 min Scan# 737  
 Delta R.T. -0.32 min  
 Lab File: BF083309.D  
 Acq: 26 Nov 2015 10:06

Instrument :  
 BNA\_F  
 ClientSampled :

Tot Ion:248 Resp: 10788  
 Ion Ratio Lower Upper  
 248 100  
 250 212.6 75.4 113.2#  
 141 617.4 48.1 72.1#

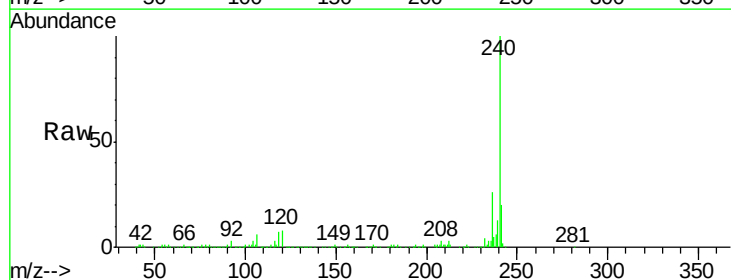


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

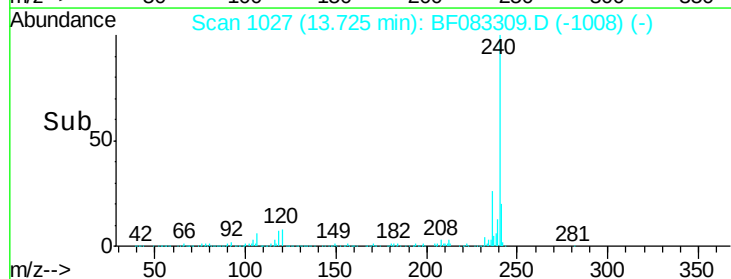
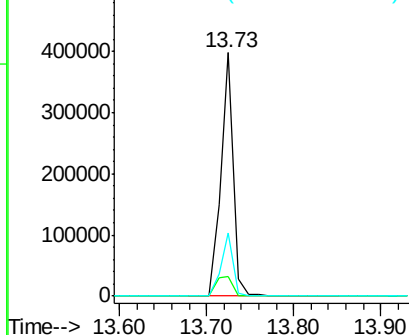


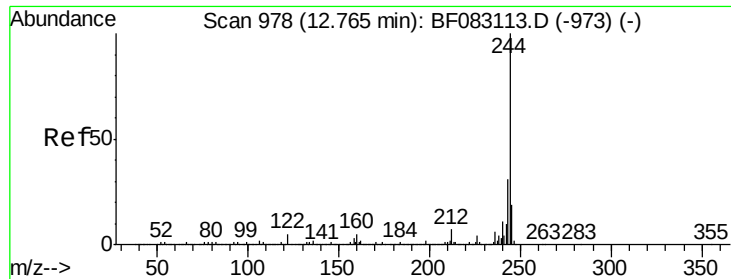
#75  
 Chrysene-d12  
 Concen: 20.00 ng  
 RT: 13.73 min Scan# 1027  
 Delta R.T. -0.08 min  
 Lab File: BF083309.D  
 Acq: 26 Nov 2015 10:06

Tgt Ion:240 Resp: 402153  
 Ion Ratio Lower Upper  
 240 100  
 120 8.2 5.4 8.2#  
 236 26.2 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

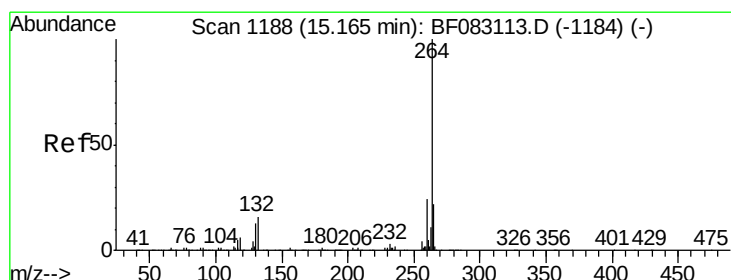
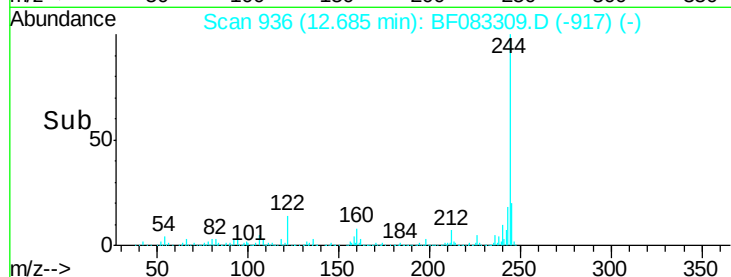
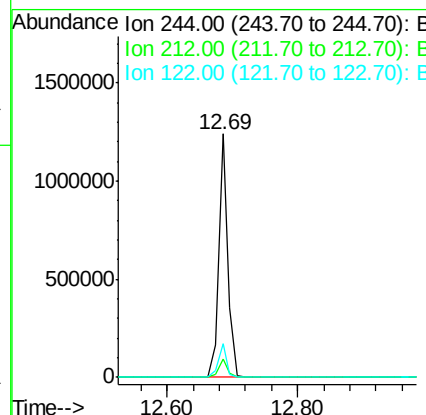
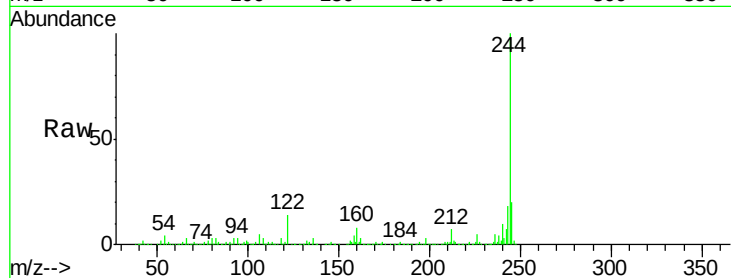




#78  
 Terphenyl-d14  
 Concen: 71.32 ng  
 RT: 12.69 min Scan# 936  
 Delta R.T. -0.08 min  
 Lab File: BF083309.D  
 Acq: 26 Nov 2015 10:06

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:244 Resp: 1217990  
 Ion Ratio Lower Upper  
 244 100  
 212 7.5 5.4 8.2  
 122 14.0 4.3 6.5#



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 15.07 min Scan# 1145  
 Delta R.T. -0.09 min  
 Lab File: BF083309.D  
 Acq: 26 Nov 2015 10:06

Tgt Ion:264 Resp: 286734  
 Ion Ratio Lower Upper  
 264 100  
 260 23.8 19.1 28.7  
 265 21.0 18.2 27.4

