

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF120215\  
 Data File : BF083421.D  
 Acq On : 2 Dec 2015 16:43  
 Operator : UM/IZ  
 Sample : G4584-07  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-P3WC-14(8-15.5)

Quant Time: Dec 03 02:45:18 2015  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF113015.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Dec 01 01:17:16 2015  
 Response via : Initial Calibration

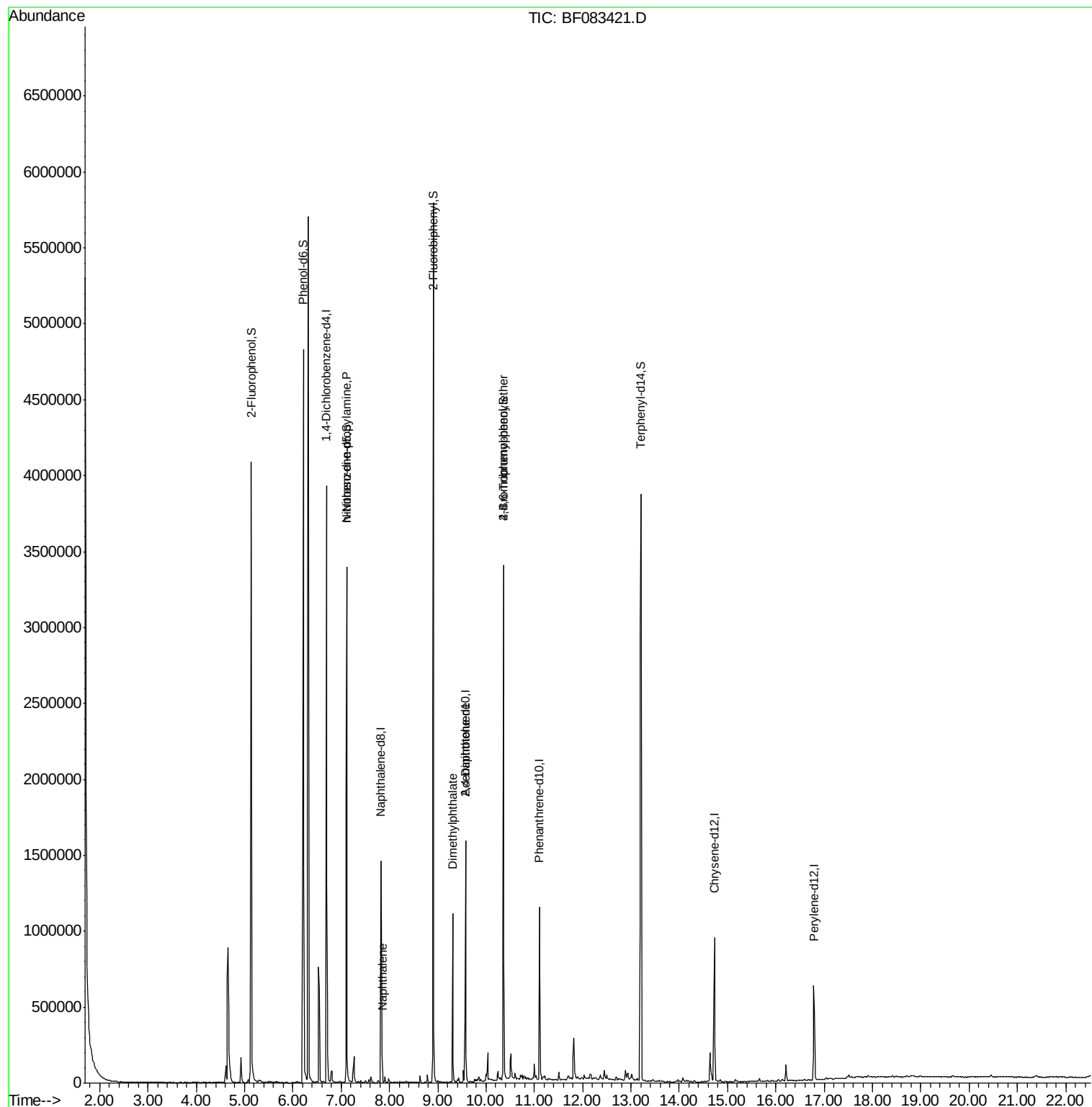
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.69  | 152  | 619679   | 20.00     | ng    | 0.15     |
| 21) Naphthalene-d8             | 7.82  | 136  | 625309   | 20.00     | ng    | -0.01    |
| 38) Acenaphthene-d10           | 9.57  | 164  | 317403   | 20.00     | ng    | -0.01    |
| 63) Phenanthrene-d10           | 11.10 | 188  | 555298   | 20.00     | ng    | -0.02    |
| 75) Chrysene-d12               | 14.73 | 240  | 472934   | 20.00     | ng    | -0.03    |
| 86) Perylene-d12               | 16.79 | 264  | 351399   | 20.00     | ng    | -0.03    |
| System Monitoring Compounds    |       |      |          |           |       |          |
| 5) 2-Fluorophenol              | 5.14  | 112  | 1552476  | 37.59     | ng    | 0.01     |
| 7) Phenol-d6                   | 6.21  | 99   | 1885319  | 33.35     | ng    | -0.01    |
| 23) Nitrobenzene-d5            | 7.12  | 82   | 1369319  | 96.26     | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol       | 10.36 | 330  | 378576   | 118.82    | ng    | -0.02    |
| 44) 2-Fluorobiphenyl           | 8.91  | 172  | 1919300  | 86.17     | ng    | -0.01    |
| 78) Terphenyl-d14              | 13.21 | 244  | 1847158  | 93.15     | ng    | -0.01    |
| Target Compounds               |       |      |          |           |       |          |
| 9) Benzaldehyde                | 6.21  | 77   | 3936     | Below Cal | #     | 32       |
| 19) n-Nitroso-di-n-propylamine | 7.12  | 70   | 187495   | 4.64 ng   | #     | 79       |
| 31) Naphthalene                | 7.85  | 128  | 79226    | 2.34 ng   |       | 95       |
| 49) Dimethylphthalate          | 9.31  | 163  | 425586   | 16.50 ng  |       | 99       |
| 56) 2,4-Dinitrotoluene         | 9.57  | 165  | 41772    | 5.98 ng   | #     | 6        |
| 66) 4-Bromophenyl-phenylether  | 10.36 | 248  | 26398    | 4.35 ng   | #     | 1        |

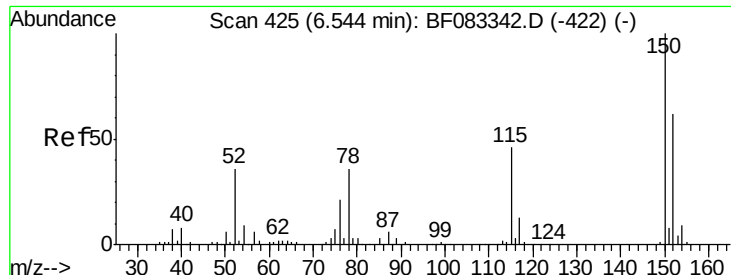
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF113015.M  
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QLast Update : Tue Dec 01 01:17:16 2015  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.69 min Scan# 438

Delta R.T. 0.15 min

Lab File: BF083421.D

Acq: 2 Dec 2015 16:43

Instrument :

BNA\_F

ClientSampleId :

SB-P3WC-14(8-15.5)

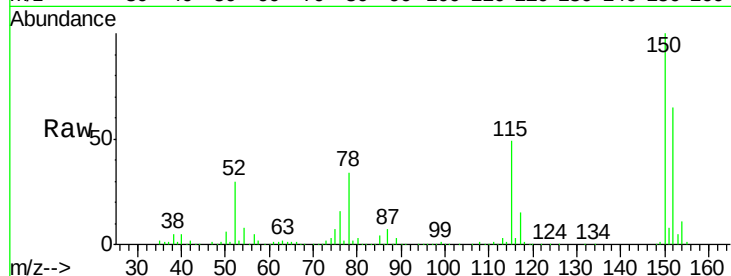
Tgt Ion:152 Resp: 619679

Ion Ratio Lower Upper

152 100

150 154.2 129.8 194.8

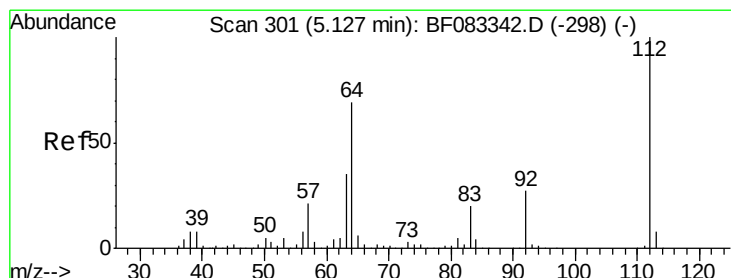
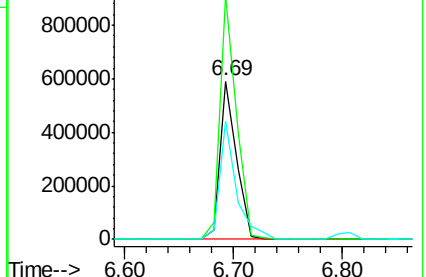
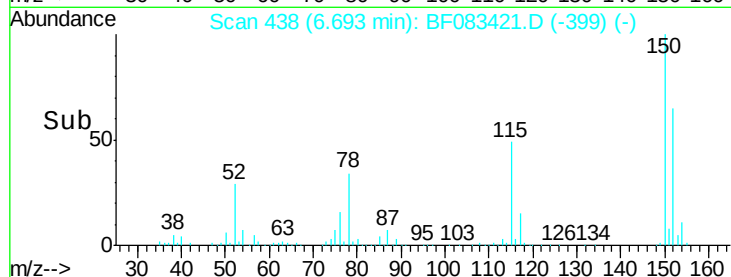
115 74.9 59.2 88.8



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: 37.59 ng

RT: 5.14 min Scan# 302

Delta R.T. 0.01 min

Lab File: BF083421.D

Acq: 2 Dec 2015 16:43

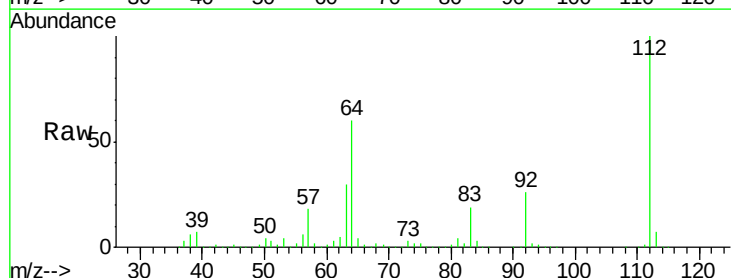
Tgt Ion:112 Resp: 1552476

Ion Ratio Lower Upper

112 100

64 60.4 55.6 83.4

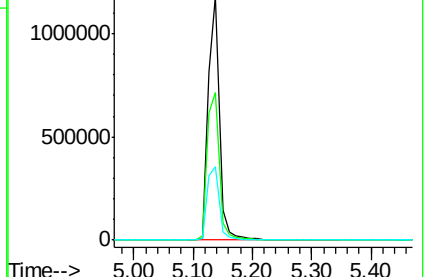
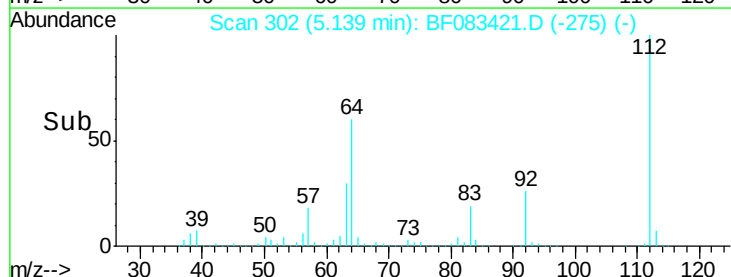
63 30.4 28.2 42.2

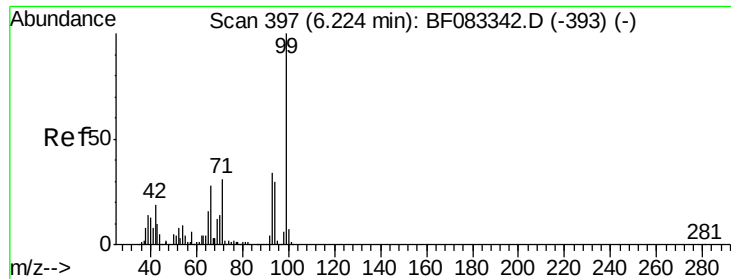


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 33.35 ng

RT: 6.21 min Scan# 396

Delta R.T. -0.01 min

Lab File: BF083421.D

Acq: 2 Dec 2015 16:43

Instrument :

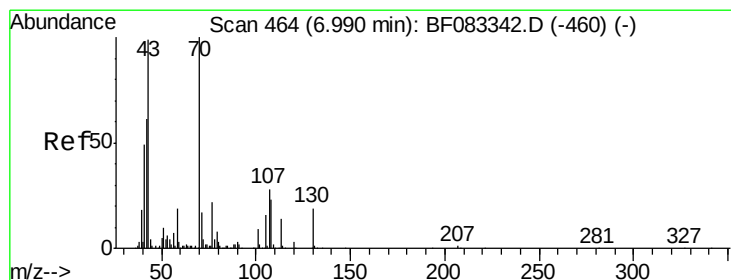
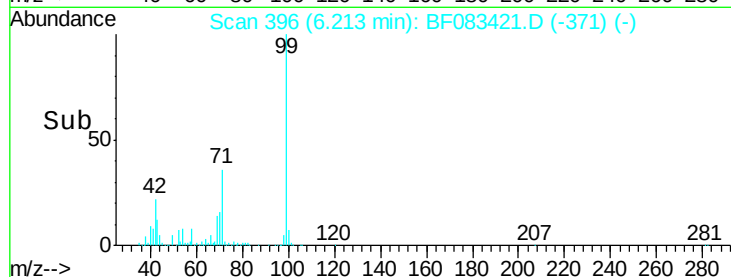
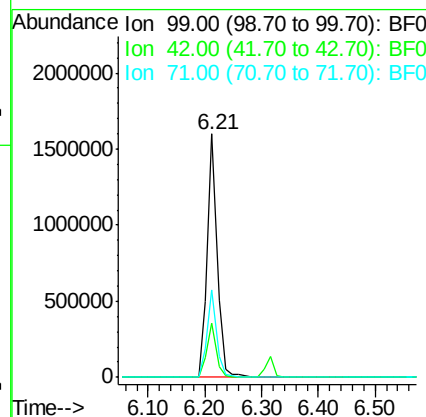
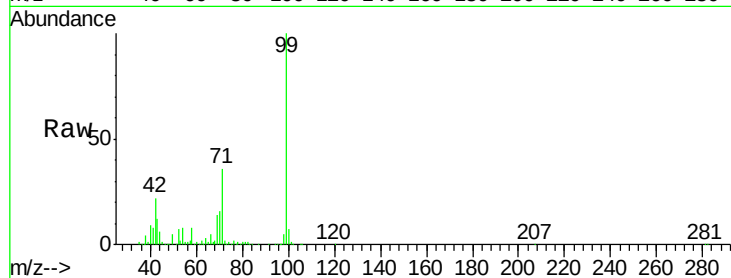
BNA\_F

ClientSampleId :

SB-P3WC-14(8-15.5)

Tgt Ion: 99 Resp: 1885319

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 22.5  | 14.9  | 22.3# |
| 71  | 36.1  | 24.7  | 37.1  |



#19

n-Nitroso-di-n-propylamine

Concen: 4.64 ng

RT: 7.12 min Scan# 475

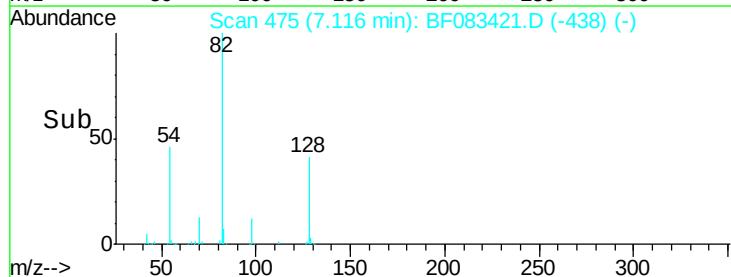
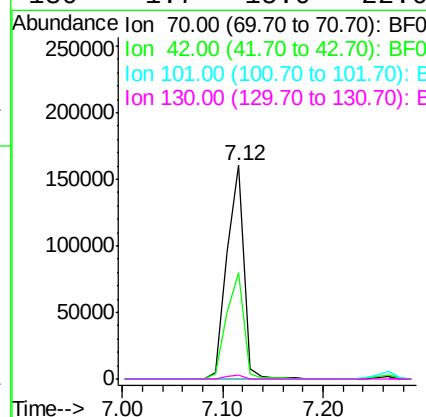
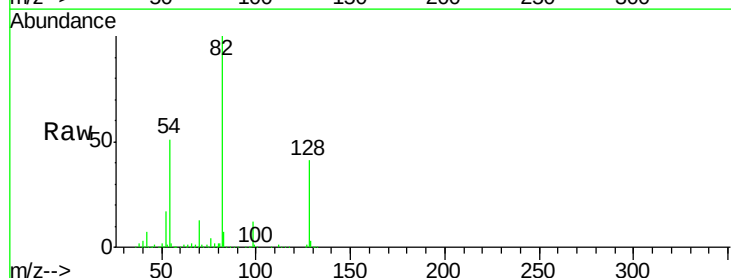
Delta R.T. 0.13 min

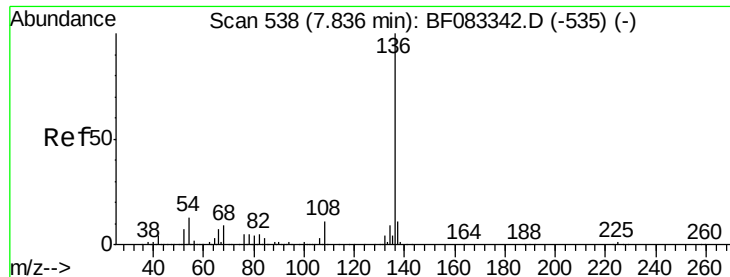
Lab File: BF083421.D

Acq: 2 Dec 2015 16:43

Tgt Ion: 70 Resp: 187495

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 70  | 100   |       |       |
| 42  | 49.7  | 48.8  | 73.2  |
| 101 | 0.0   | 7.1   | 10.7# |
| 130 | 1.7   | 15.0  | 22.6# |

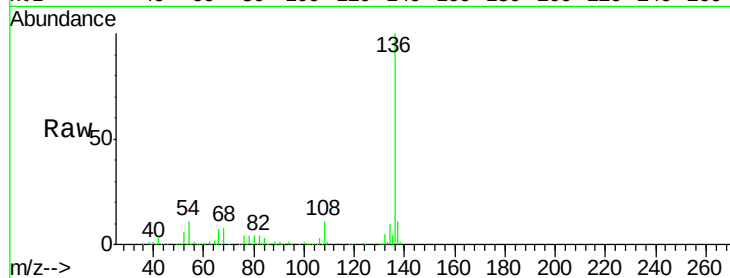




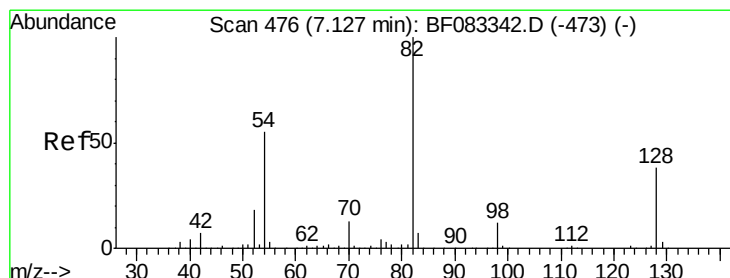
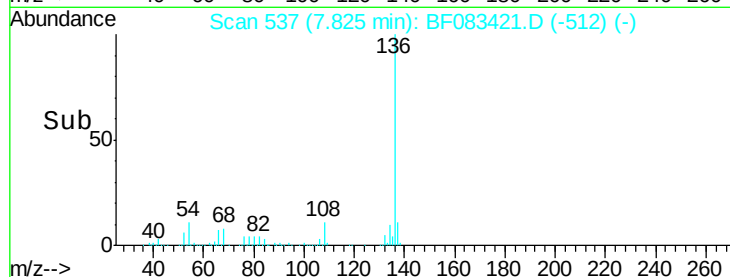
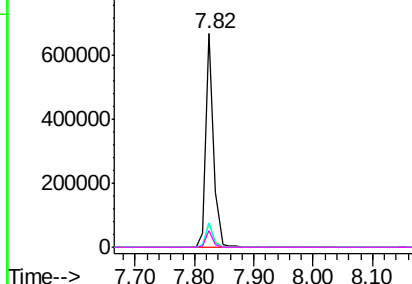
#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 7.82 min Scan# 537  
Delta R.T. -0.01 min  
Lab File: BF083421.D  
Acq: 2 Dec 2015 16:43

Instrument :  
BNA\_F  
ClientSampleId :  
SB-P3WC-14(8-15.5)

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 625309 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.4  | 9.0   | 13.4   |
| 54       | 11.2  | 10.1  | 15.1   |
| 68       | 8.0   | 7.1   | 10.7   |

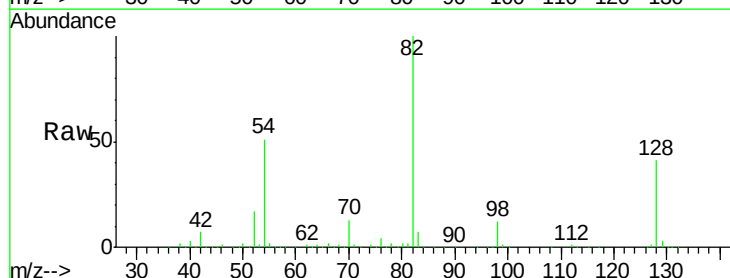


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF0  
Ion 68.00 (67.70 to 68.70): BF0

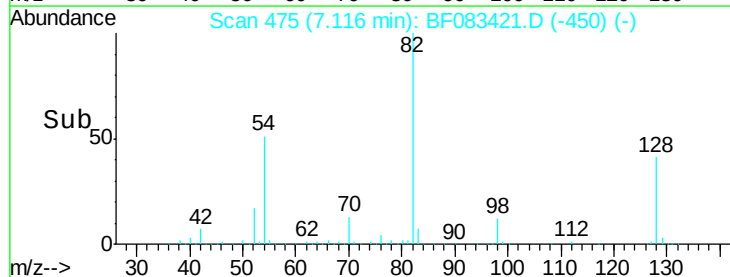
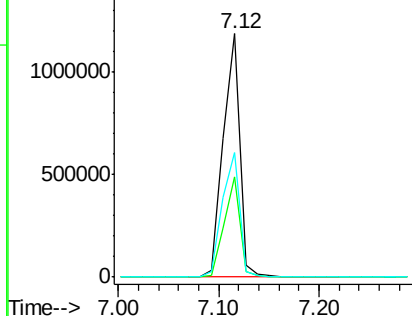


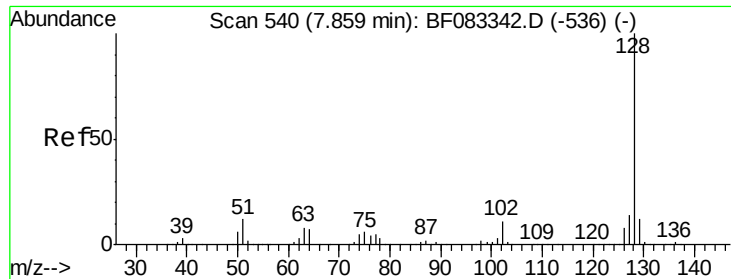
#23  
Nitrobenzene-d5  
Concen: 96.26 ng  
RT: 7.12 min Scan# 475  
Delta R.T. -0.01 min  
Lab File: BF083421.D  
Acq: 2 Dec 2015 16:43

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 82    | Resp: | 1369319 |
| Ion      | Ratio | Lower | Upper   |
| 82       | 100   |       |         |
| 128      | 41.0  | 30.6  | 46.0    |
| 54       | 51.4  | 43.8  | 65.6    |



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

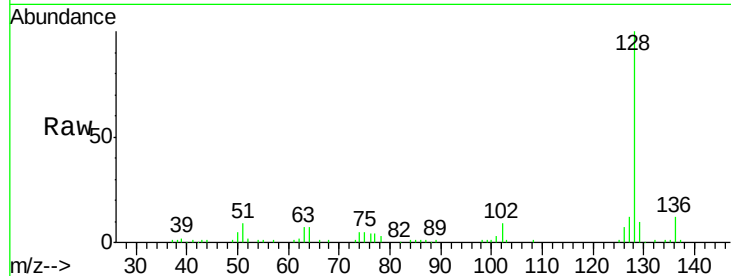




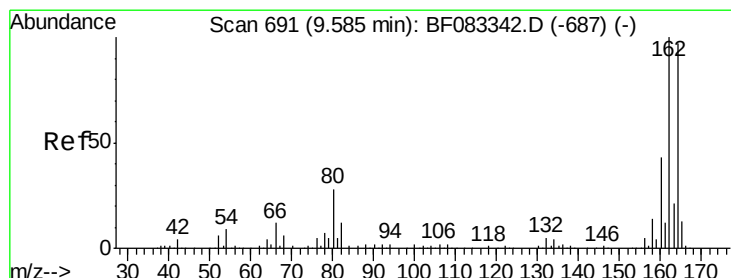
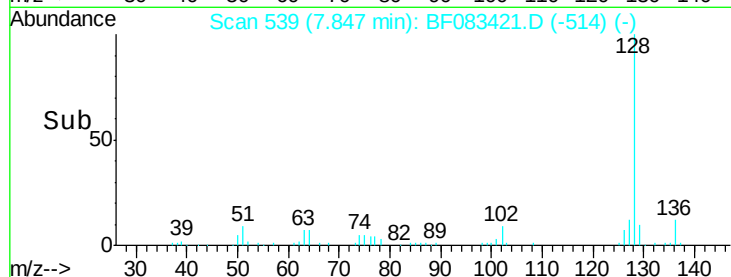
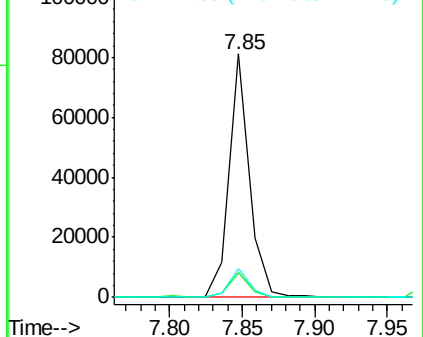
#31  
Naphthalene  
Concen: 2.34 ng  
RT: 7.85 min Scan# 539  
Delta R.T. -0.01 min  
Lab File: BF083421.D  
Acq: 2 Dec 2015 16:43

Instrument :  
BNA\_F  
ClientSampleId :  
SB-P3WC-14(8-15.5)

Tgt Ion:128 Resp: 79226  
Ion Ratio Lower Upper  
128 100  
129 10.4 9.7 14.5  
127 11.6 11.0 16.4

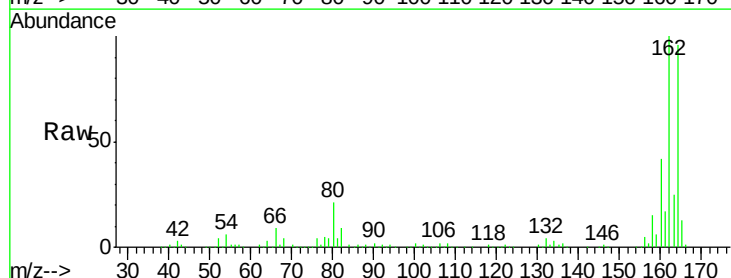


Abundance Ion 128.00 (127.70 to 128.70): E  
Ion 129.00 (128.70 to 129.70): E  
Ion 127.00 (126.70 to 127.70): E

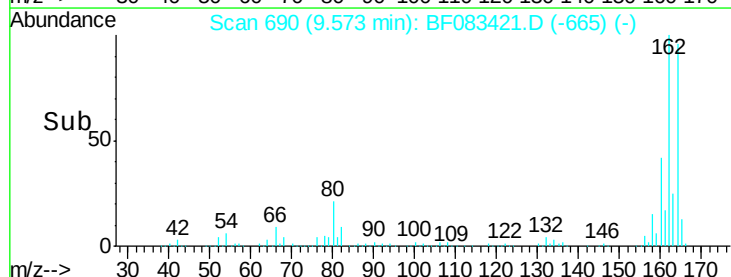
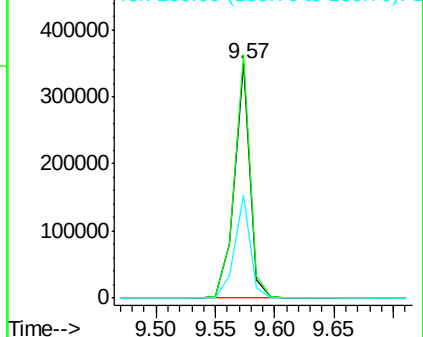


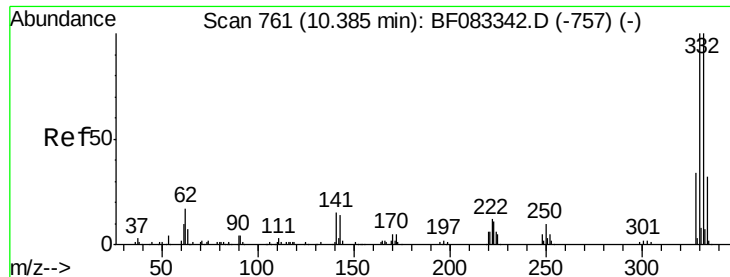
#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.57 min Scan# 690  
Delta R.T. -0.01 min  
Lab File: BF083421.D  
Acq: 2 Dec 2015 16:43

Tgt Ion:164 Resp: 317403  
Ion Ratio Lower Upper  
164 100  
162 104.0 82.6 123.8  
160 43.9 35.3 52.9



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

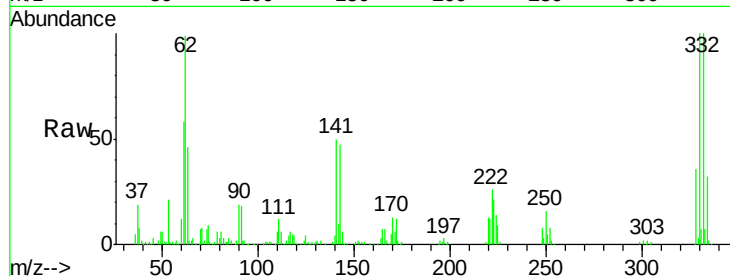




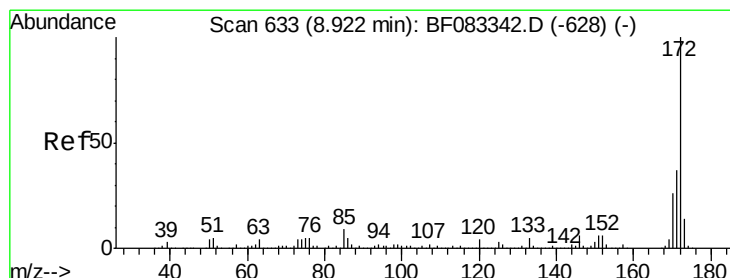
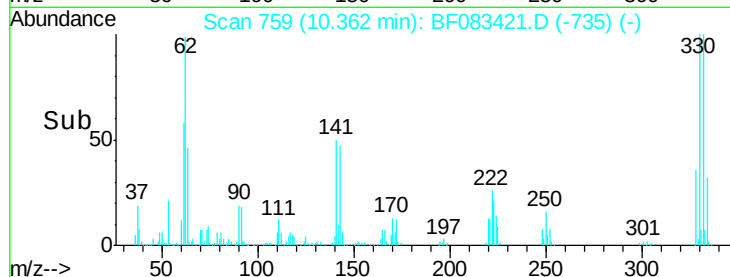
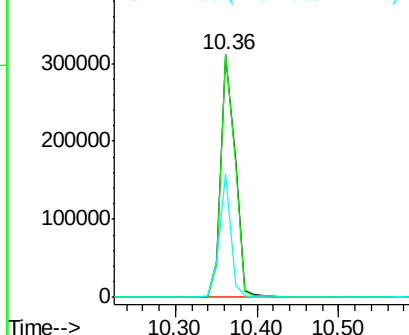
#41  
 2,4,6-Tribromophenol  
 Concen: 118.82 ng  
 RT: 10.36 min Scan# 759  
 Delta R.T. -0.02 min  
 Lab File: BF083421.D  
 Acq: 2 Dec 2015 16:43

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-P3WC-14(8-15.5)

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 98.4  | 77.8  | 116.6 |
| 141     | 41.1  | 29.4  | 44.0  |

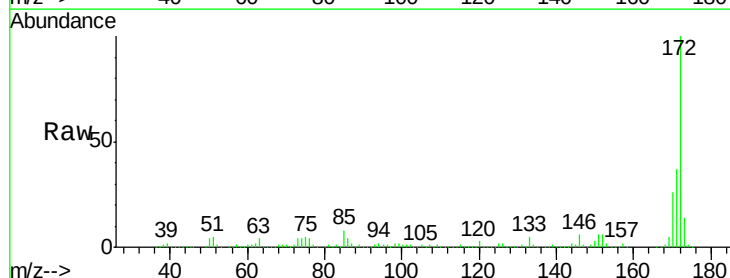


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

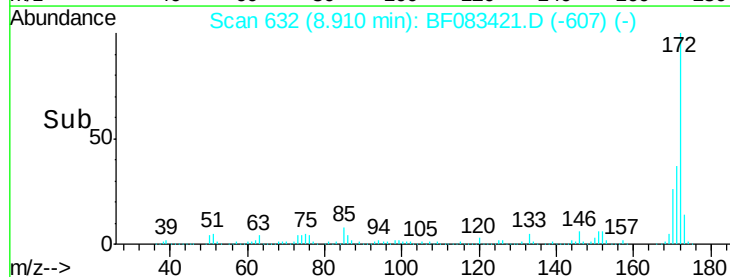
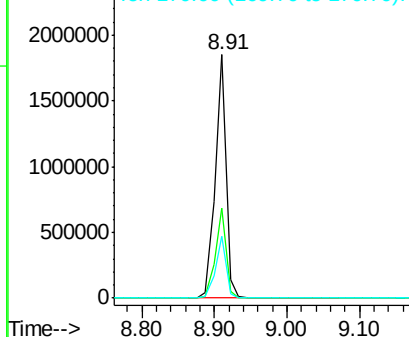


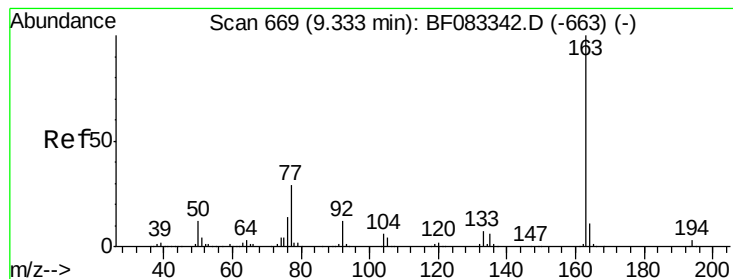
#44  
 2-Fluorobiphenyl  
 Concen: 86.17 ng  
 RT: 8.91 min Scan# 632  
 Delta R.T. -0.01 min  
 Lab File: BF083421.D  
 Acq: 2 Dec 2015 16:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 37.0  | 29.4  | 44.0  |
| 170     | 25.5  | 20.4  | 30.6  |



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: 16.50 ng

RT: 9.31 min Scan# 667

Delta R.T. -0.02 min

Lab File: BF083421.D

Acq: 2 Dec 2015 16:43

Instrument :

BNA\_F

ClientSampleId :

SB-P3WC-14(8-15.5)

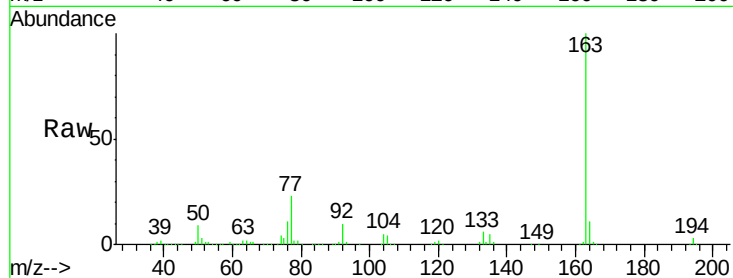
Tgt Ion:163 Resp: 425586

Ion Ratio Lower Upper

163 100

194 3.5 2.7 4.1

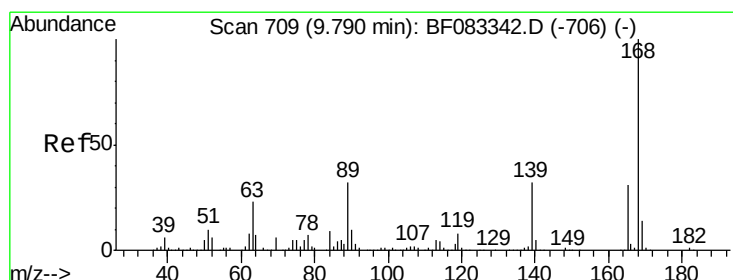
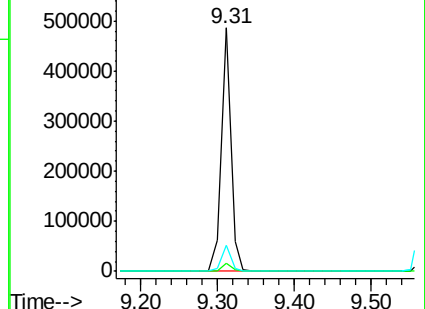
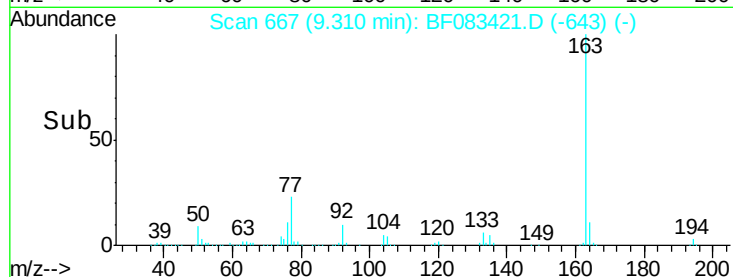
164 10.6 8.8 13.2



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



#56

2,4-Dinitrotoluene

Concen: 5.98 ng

RT: 9.57 min Scan# 690

Delta R.T. -0.22 min

Lab File: BF083421.D

Acq: 2 Dec 2015 16:43

Tgt Ion:165 Resp: 41772

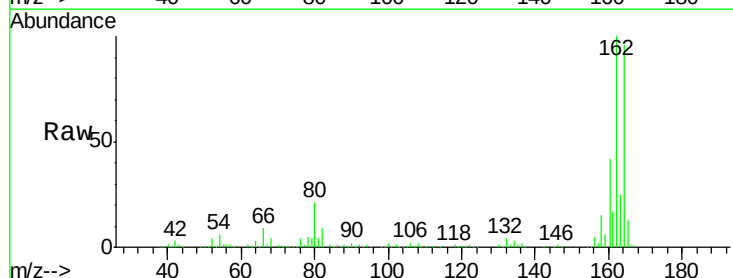
Ion Ratio Lower Upper

165 100

63 1.5 65.4 98.0#

89 1.0 81.2 121.8#

182 0.0 1.8 2.8#

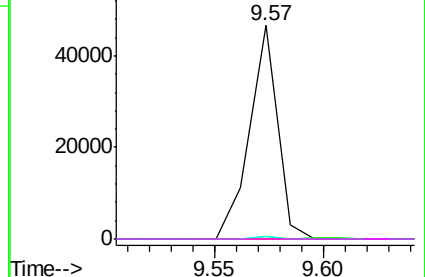
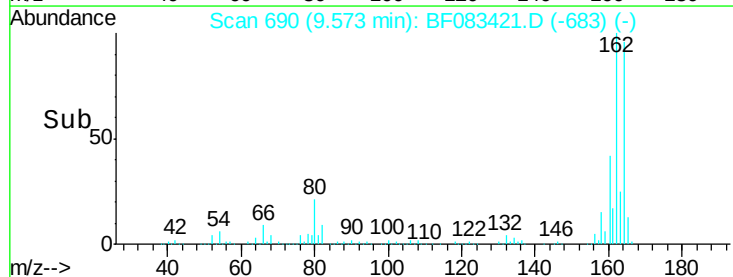


Abundance Ion 165.00 (164.70 to 165.70): E

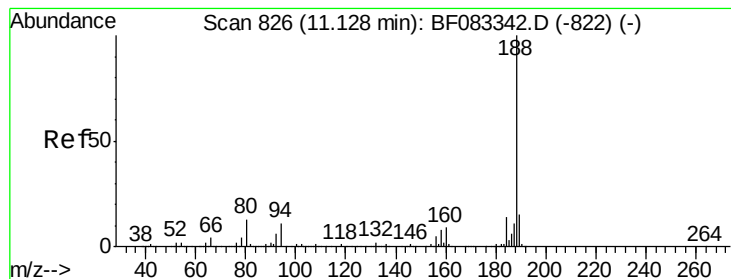
Ion 63.00 (62.70 to 63.70): BF0

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# 824

Delta R.T. -0.02 min

Lab File: BF083421.D

Acq: 2 Dec 2015 16:43

Instrument :

BNA\_F

ClientSampleId :

SB-P3WC-14(8-15.5)

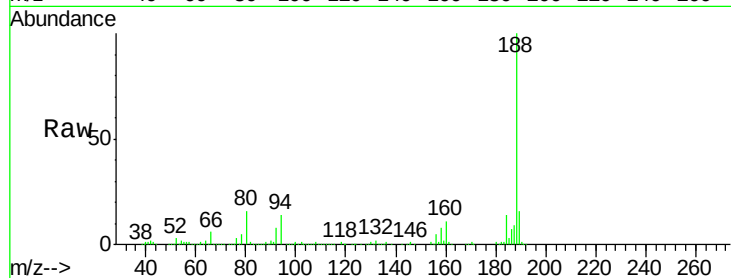
Tgt Ion:188 Resp: 555298

Ion Ratio Lower Upper

188 100

94 14.0 8.7 13.1#

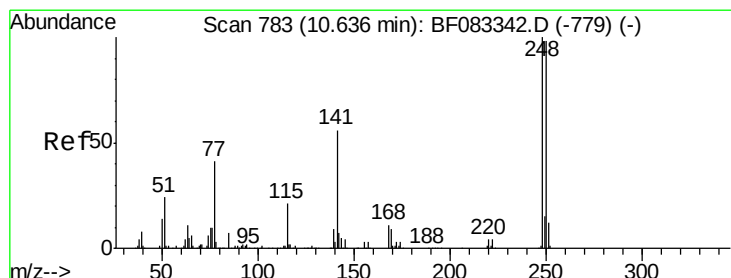
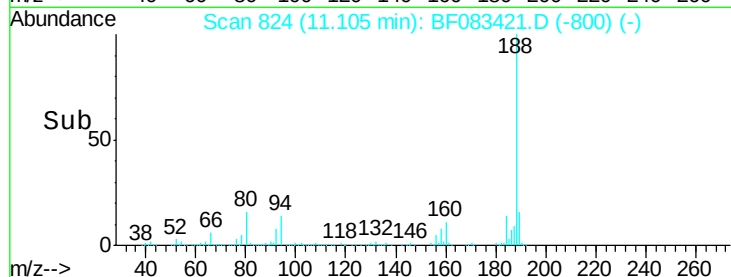
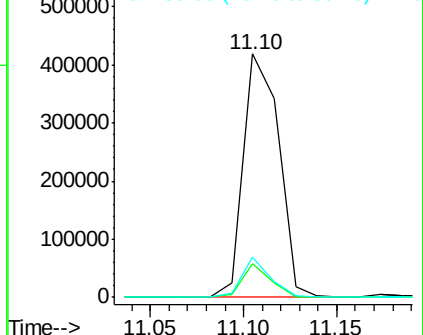
80 16.2 10.3 15.5#



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: 4.35 ng

RT: 10.36 min Scan# 759

Delta R.T. -0.27 min

Lab File: BF083421.D

Acq: 2 Dec 2015 16:43

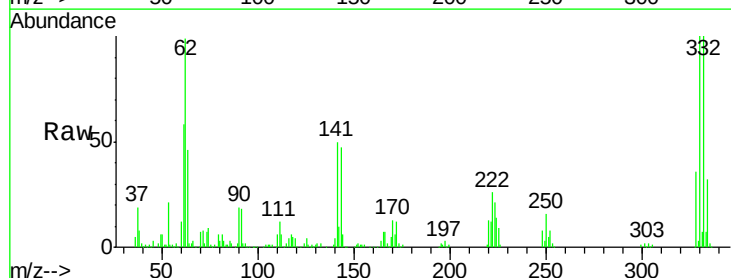
Tgt Ion:248 Resp: 26398

Ion Ratio Lower Upper

248 100

250 202.9 78.6 118.0#

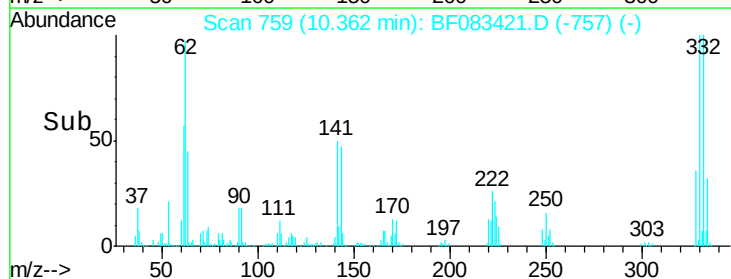
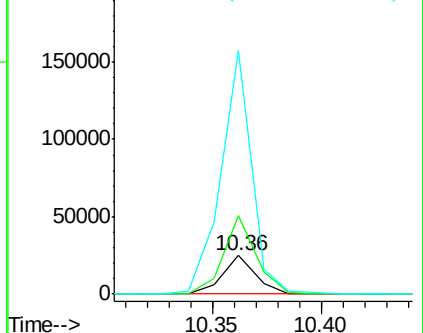
141 630.1 44.4 66.6#

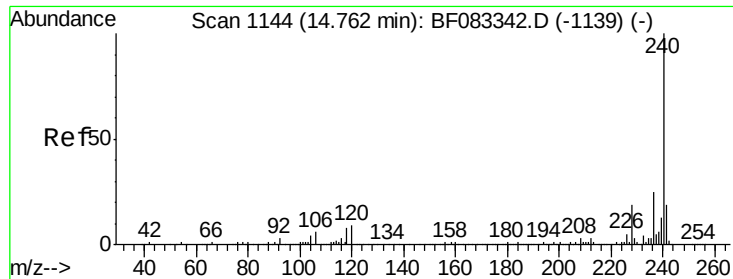


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E

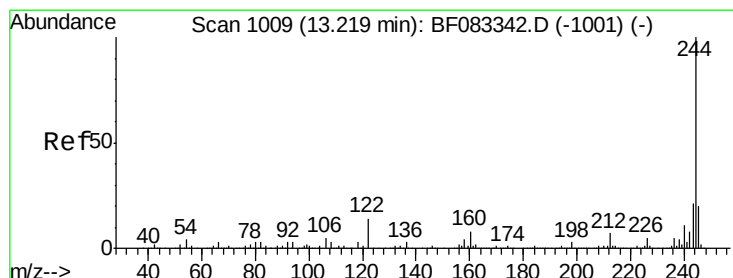
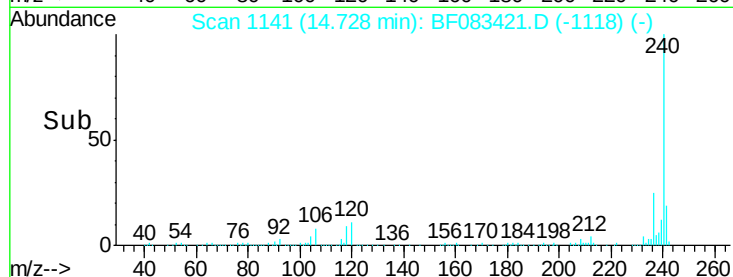
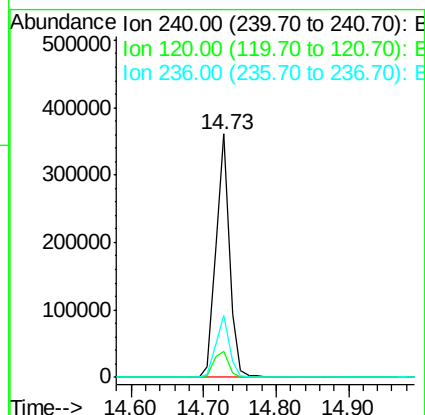
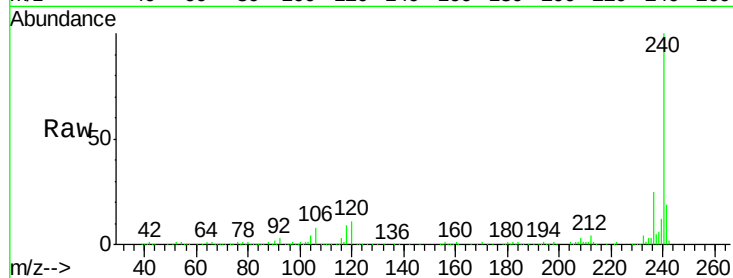




#75  
 Chrysene-d12  
 Concen: 20.00 ng  
 RT: 14.73 min Scan# 1141  
 Delta R.T. -0.03 min  
 Lab File: BF083421.D  
 Acq: 2 Dec 2015 16:43

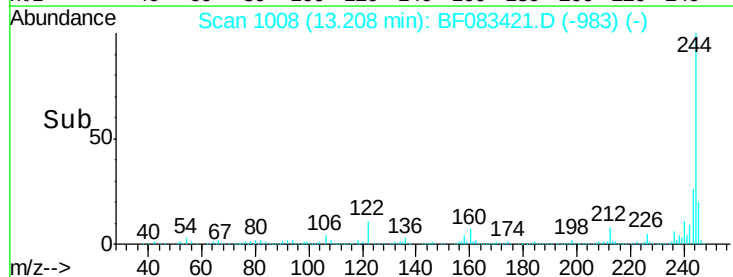
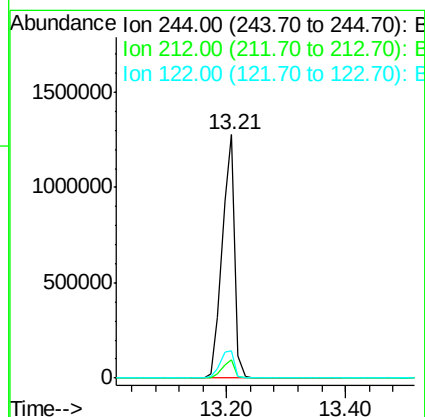
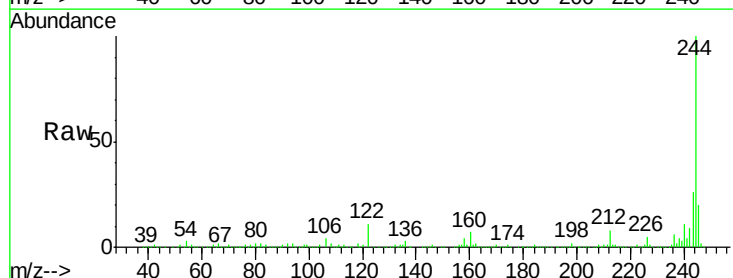
Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-P3WC-14(8-15.5)

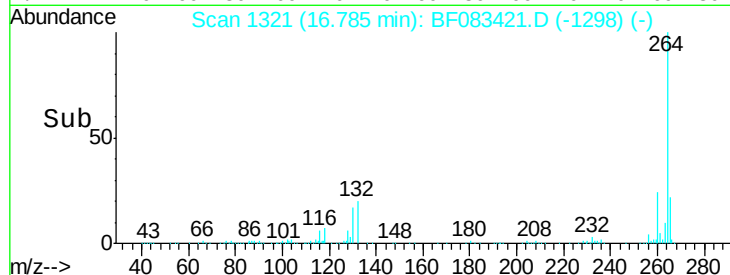
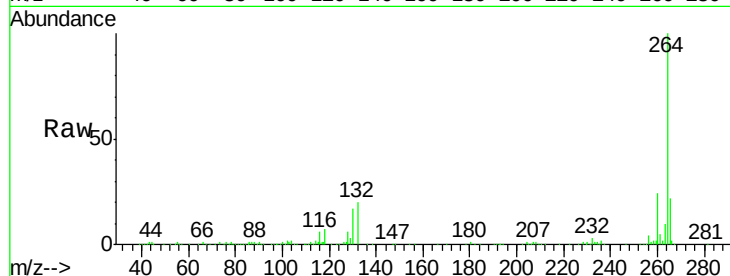
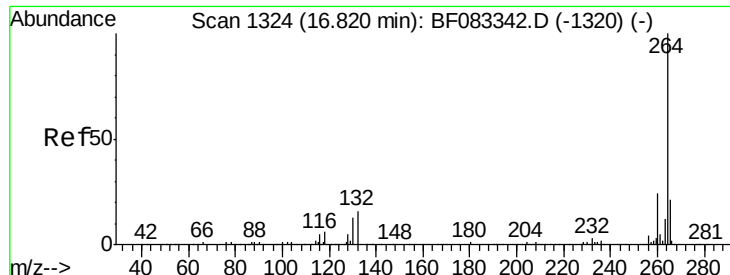
Tgt Ion:240 Resp: 472934  
 Ion Ratio Lower Upper  
 240 100  
 120 10.6 6.9 10.3#  
 236 25.3 19.8 29.6



#78  
 Terphenyl-d14  
 Concen: 93.15 ng  
 RT: 13.21 min Scan# 1008  
 Delta R.T. -0.01 min  
 Lab File: BF083421.D  
 Acq: 2 Dec 2015 16:43

Tgt Ion:244 Resp: 1847158  
 Ion Ratio Lower Upper  
 244 100  
 212 7.7 5.8 8.8  
 122 11.0 11.0 16.4





#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 16.79 min Scan# 1321  
Delta R.T. -0.03 min  
Lab File: BF083421.D  
Acq: 2 Dec 2015 16:43

Instrument :  
BNA\_F  
ClientSampleId :  
SB-P3WC-14(8-15.5)

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 264   | Resp: | 351399 |
| Ion      | Ratio | Lower | Upper  |
| 264      | 100   |       |        |
| 260      | 23.6  | 19.0  | 28.4   |
| 265      | 21.7  | 16.8  | 25.2   |

