

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF021815\  
 Data File : BF077364.D  
 Acq On : 18 Feb 2015 20:58  
 Operator : TP/IZ  
 Sample : G1303-02  
 Misc : TCLP  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Feb 19 03:31:04 2015  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF021715.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Feb 18 09:51:00 2015  
 Response via : Initial Calibration

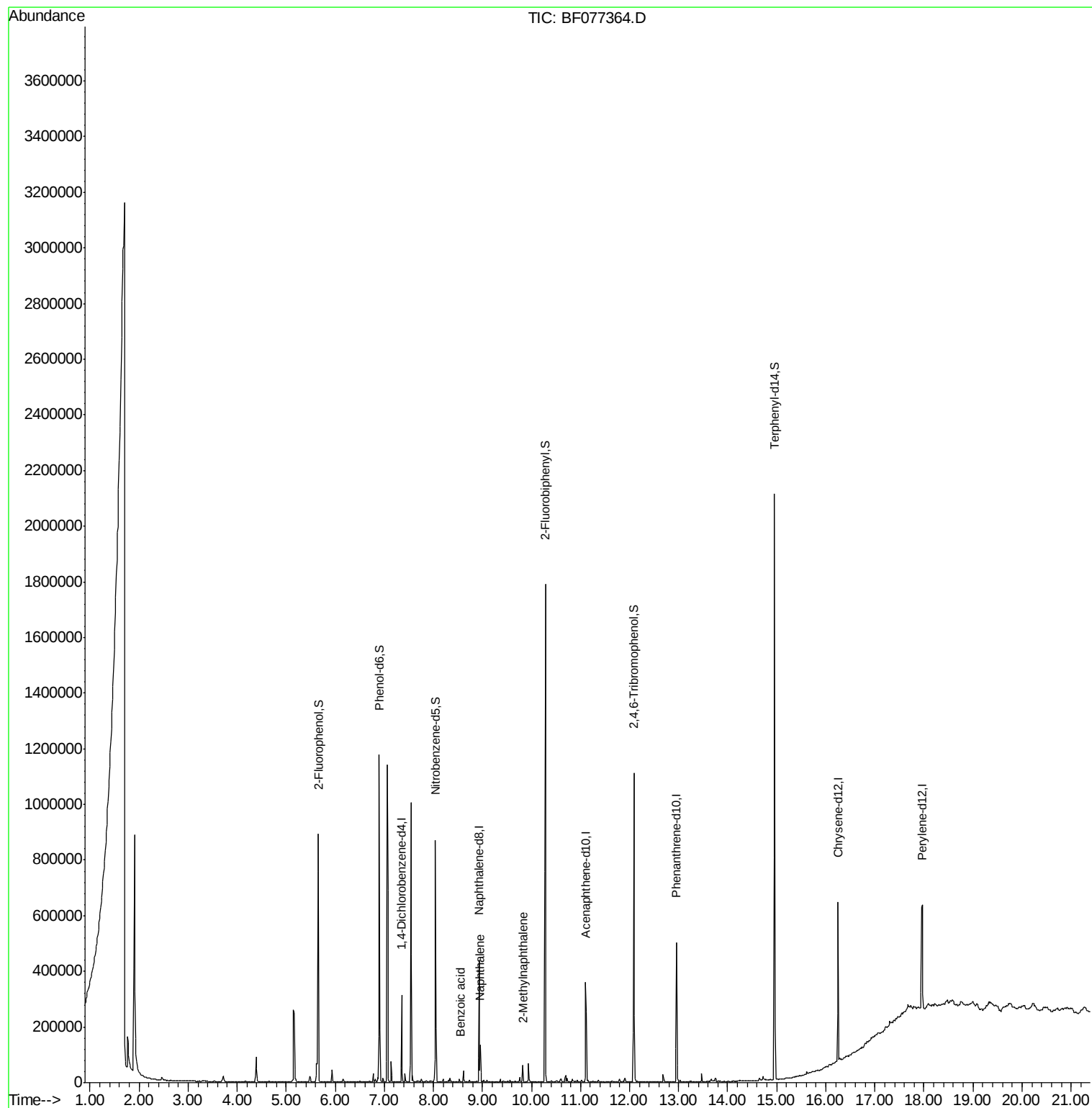
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.36  | 152  | 46834    | 20.00  | ng    | -0.02    |
| 21) Naphthalene-d8          | 8.93  | 136  | 191932   | 20.00  | ng    | -0.02    |
| 38) Acenaphthene-d10        | 11.10 | 164  | 93616    | 20.00  | ng    | -0.03    |
| 63) Phenanthrene-d10        | 12.96 | 188  | 190787   | 20.00  | ng    | -0.02    |
| 75) Chrysene-d12            | 16.25 | 240  | 211857   | 20.00  | ng    | -0.02    |
| 86) Perylene-d12            | 17.96 | 264  | 222871   | 20.00  | ng    | -0.05    |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.65  | 112  | 351375   | 128.21 | ng    | -0.01    |
| 7) Phenol-d6                | 6.90  | 99   | 390684   | 109.13 | ng    | -0.02    |
| 23) Nitrobenzene-d5         | 8.04  | 82   | 263774   | 95.17  | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol    | 12.09 | 330  | 133487   | 152.85 | ng    | -0.02    |
| 44) 2-Fluorobiphenyl        | 10.28 | 172  | 626085   | 100.82 | ng    | -0.02    |
| 78) Terphenyl-d14           | 14.96 | 244  | 724100   | 77.71  | ng    | -0.02    |
| Target Compounds            |       |      |          |        |       | Qvalue   |
| 31) Naphthalene             | 8.96  | 128  | 59277    | 6.17   | ng    | 98       |
| 32) Benzoic acid            | 8.56  | 122  | 444      | 3.78   | ng    | # 69     |
| 37) 2-Methylnaphthalene     | 9.82  | 142  | 25044    | 3.63   | ng    | 99       |

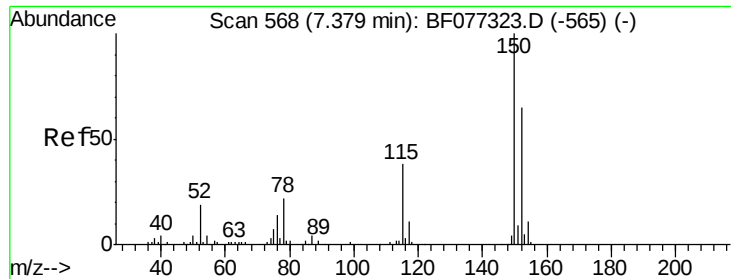
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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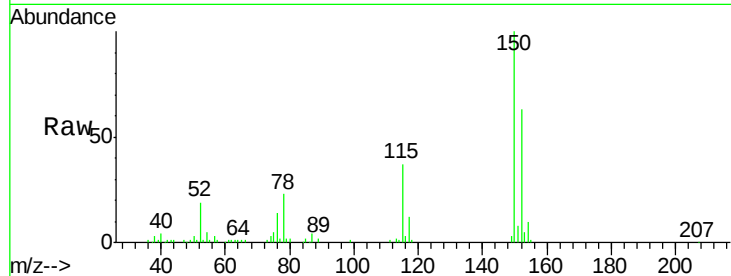


#1

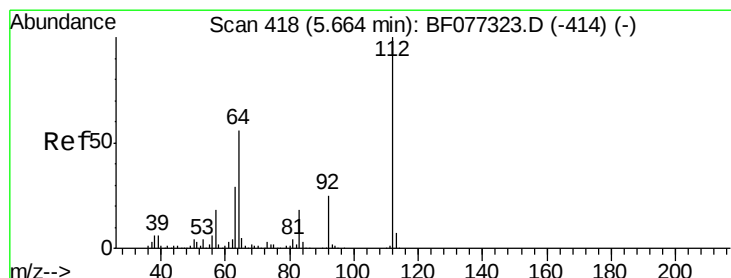
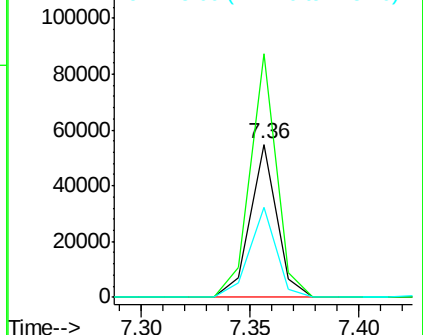
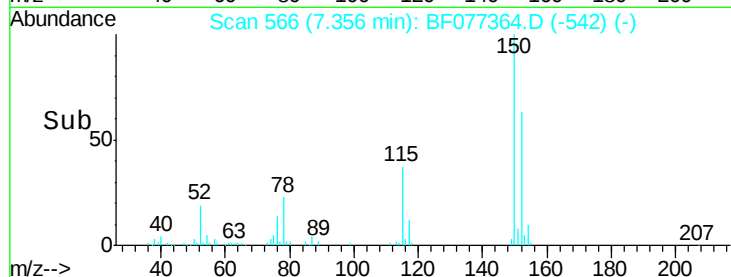
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 7.36 min Scan# 566  
Delta R.T. -0.02 min  
Lab File: BF077364.D  
Acq: 18 Feb 2015 20:58

Instrument :  
BNA\_F  
ClientSampleId :

Tgt Ion:152 Resp: 46834  
Ion Ratio Lower Upper  
152 100  
150 158.9 123.1 184.7  
115 58.8 46.2 69.4



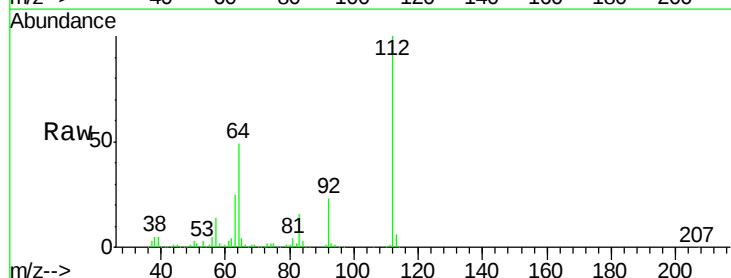
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



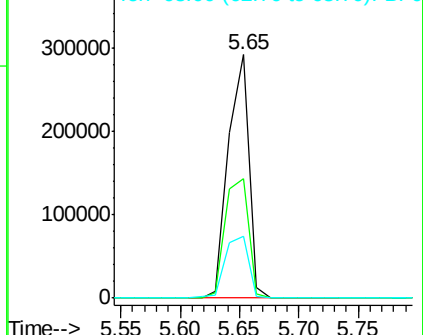
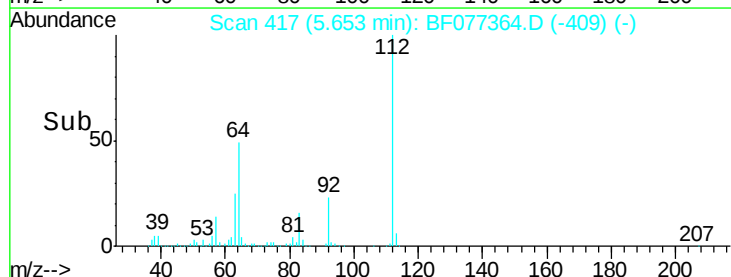
#5

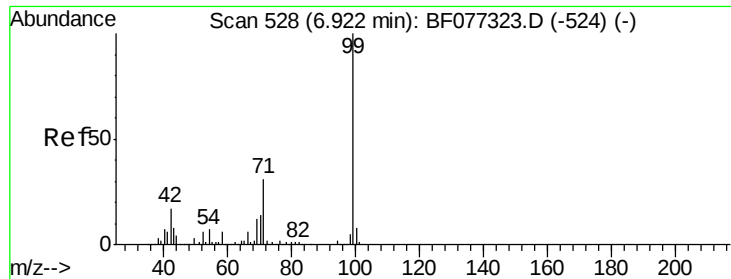
2-Fluorophenol  
Concen: 128.21 ng  
RT: 5.65 min Scan# 417  
Delta R.T. -0.01 min  
Lab File: BF077364.D  
Acq: 18 Feb 2015 20:58

Tgt Ion:112 Resp: 351375  
Ion Ratio Lower Upper  
112 100  
64 49.0 44.7 67.1  
63 25.5 23.3 34.9



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: 109.13 ng

RT: 6.90 min Scan# 526

Delta R.T. -0.02 min

Lab File: BF077364.D

Acq: 18 Feb 2015 20:58

Instrument :

BNA\_F

ClientSampled :

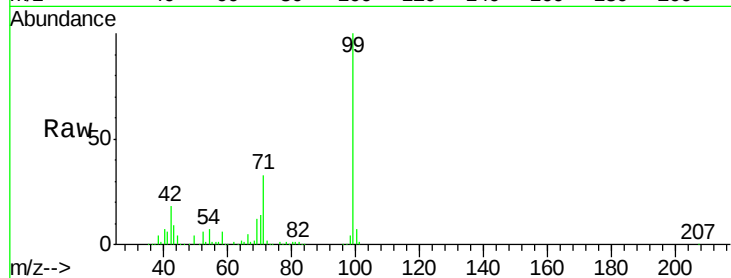
Tgt Ion: 99 Resp: 390684

Ion Ratio Lower Upper

99 100

42 18.2 13.8 20.6

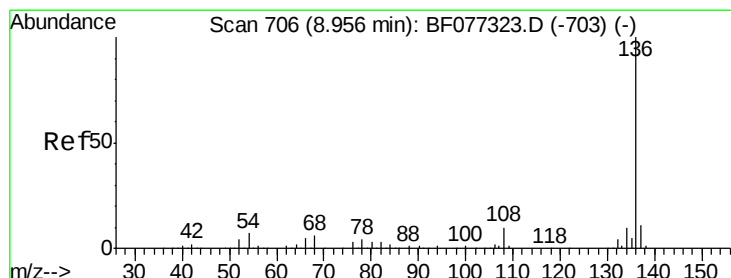
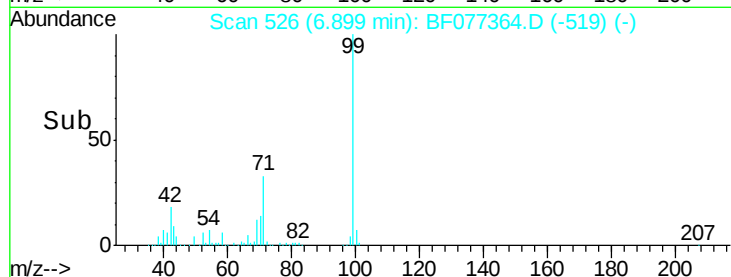
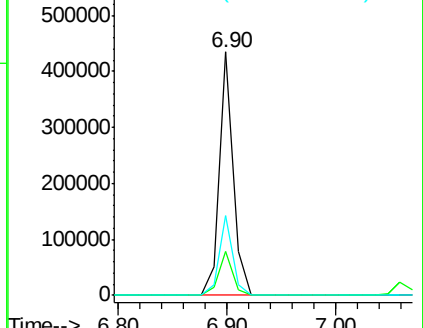
71 32.8 24.6 37.0



Abundance Ion 99.00 (98.70 to 99.70): BF077323.D (-524) (-)

Ion 42.00 (41.70 to 42.70): BF077323.D (-524) (-)

Ion 71.00 (70.70 to 71.70): BF077323.D (-524) (-)



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.93 min Scan# 704

Delta R.T. -0.02 min

Lab File: BF077364.D

Acq: 18 Feb 2015 20:58

Tgt Ion: 136 Resp: 191932

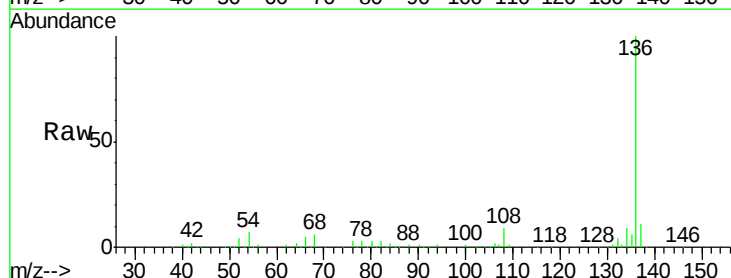
Ion Ratio Lower Upper

136 100

137 10.8 8.7 13.1

54 6.8 5.8 8.6

68 5.6 4.6 6.8

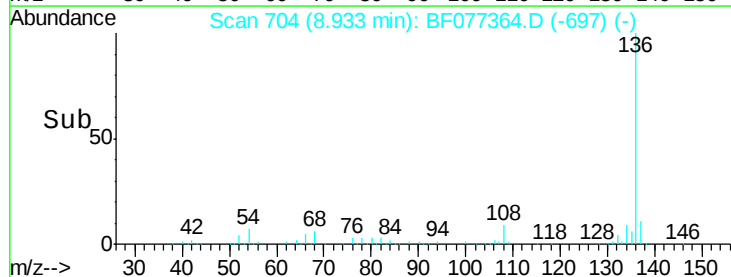
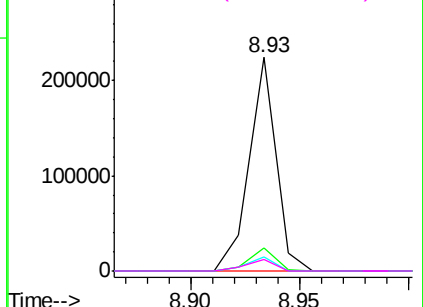


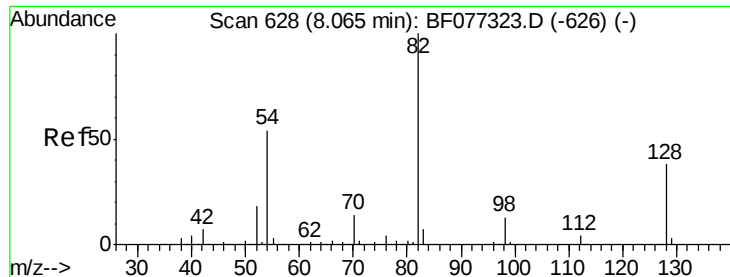
Abundance Ion 136.00 (135.70 to 136.70): BF077323.D (-703) (-)

Ion 137.00 (136.70 to 137.70): BF077323.D (-703) (-)

Ion 54.00 (53.70 to 54.70): BF077323.D (-703) (-)

Ion 68.00 (67.70 to 68.70): BF077323.D (-703) (-)

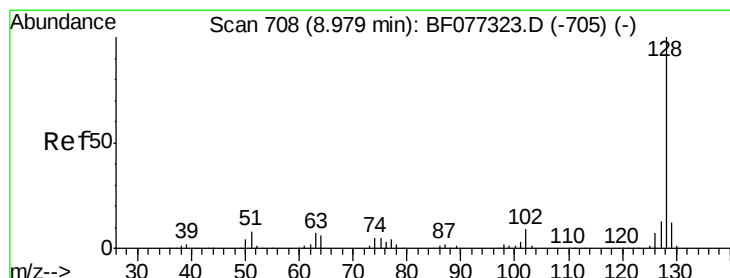
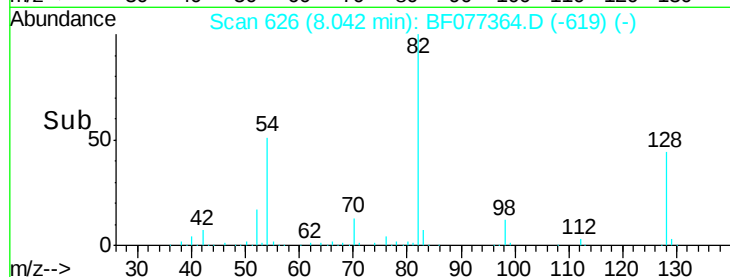
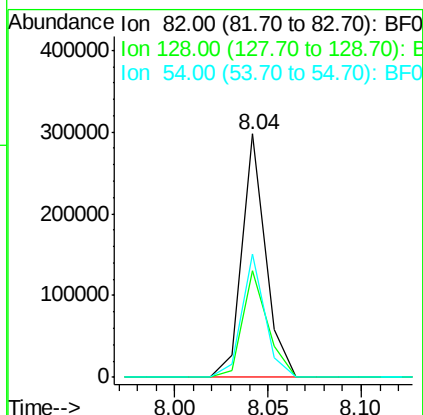
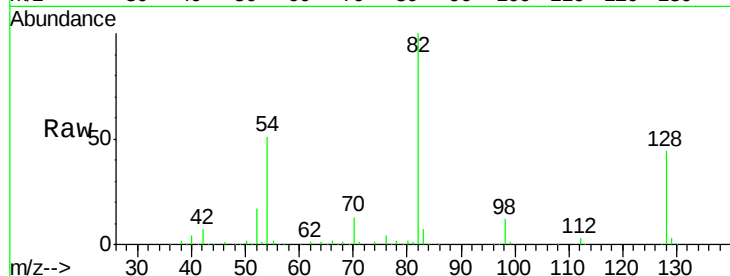




#23  
 Nitrobenzene-d5  
 Concen: 95.17 ng  
 RT: 8.04 min Scan# 626  
 Delta R.T. -0.02 min  
 Lab File: BF077364.D  
 Acq: 18 Feb 2015 20:58

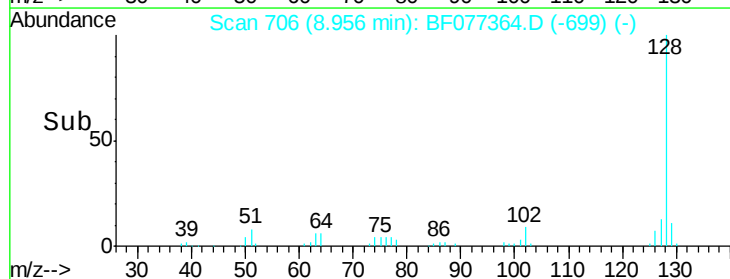
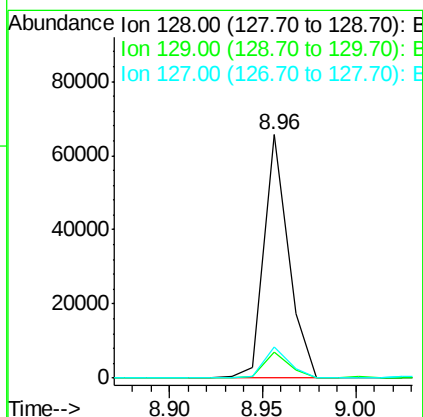
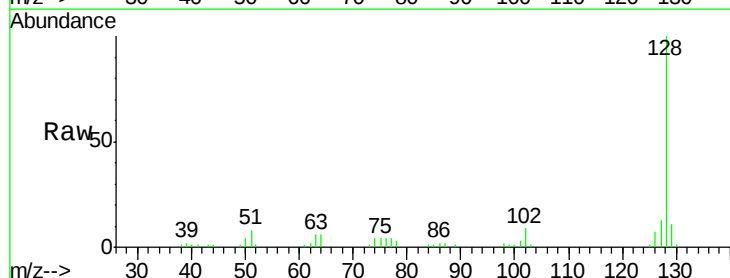
Instrument :  
 BNA\_F  
 ClientSampled :

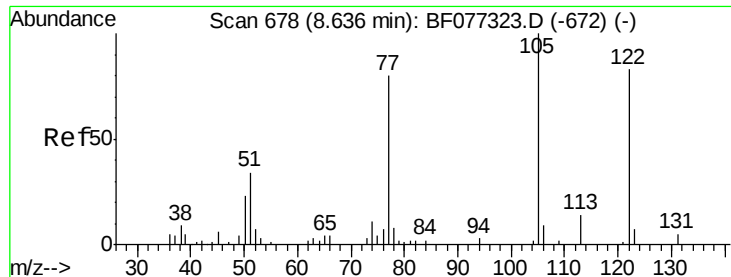
Tgt Ion: 82 Resp: 263774  
 Ion Ratio Lower Upper  
 82 100  
 128 43.6 30.7 46.1  
 54 50.6 43.1 64.7



#31  
 Naphthalene  
 Concen: 6.17 ng  
 RT: 8.96 min Scan# 706  
 Delta R.T. -0.02 min  
 Lab File: BF077364.D  
 Acq: 18 Feb 2015 20:58

Tgt Ion: 128 Resp: 59277  
 Ion Ratio Lower Upper  
 128 100  
 129 10.7 9.5 14.3  
 127 12.9 10.5 15.7





#32

Benzoic acid

Concen: 3.78 ng

RT: 8.56 min Scan# 671

Delta R.T. -0.08 min

Lab File: BF077364.D

Acq: 18 Feb 2015 20:58

Instrument :

BNA\_F

ClientSampled :

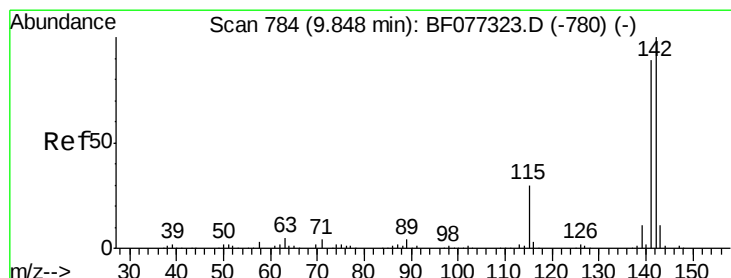
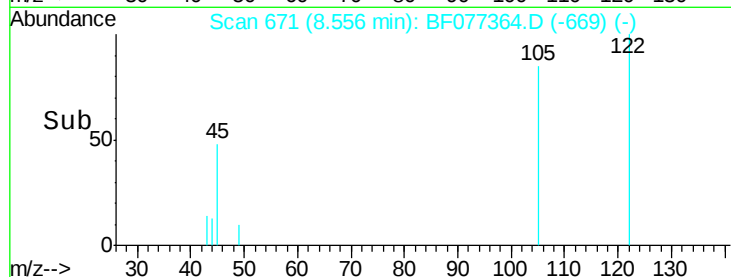
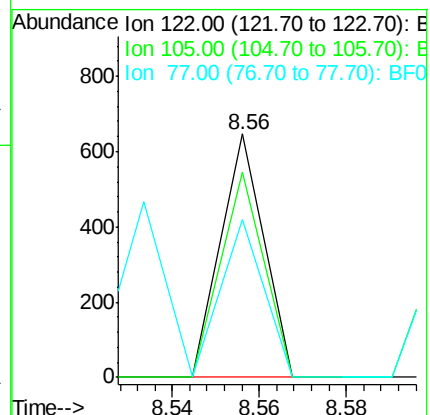
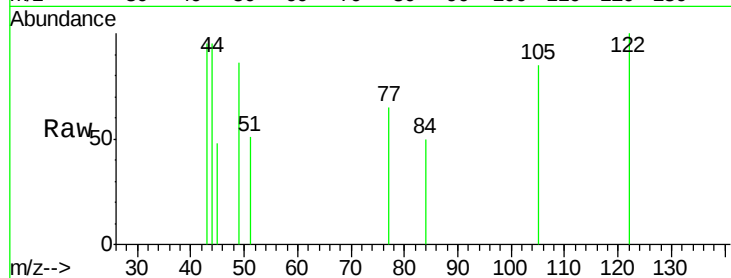
Tgt Ion:122 Resp: 444

Ion Ratio Lower Upper

122 100

105 84.5 98.4 138.4#

77 65.1 75.4 115.4#



#37

2-Methylnaphthalene

Concen: 3.63 ng

RT: 9.82 min Scan# 782

Delta R.T. -0.02 min

Lab File: BF077364.D

Acq: 18 Feb 2015 20:58

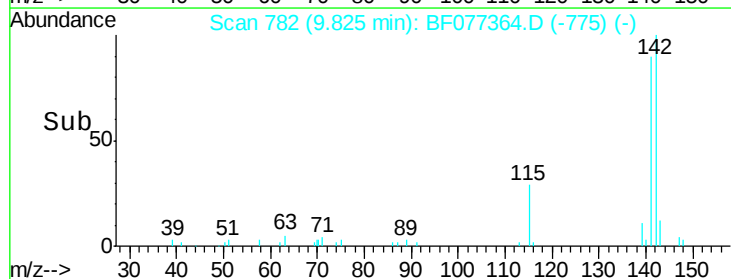
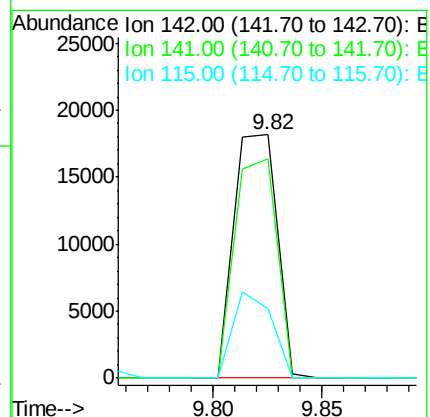
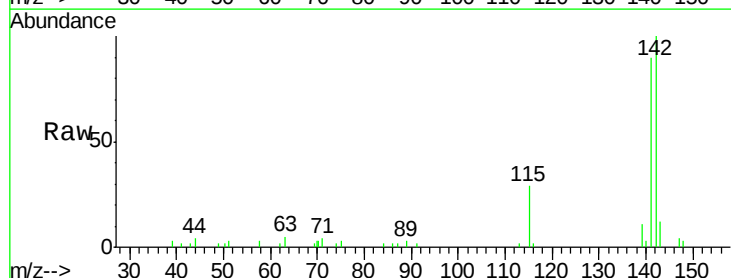
Tgt Ion:142 Resp: 25044

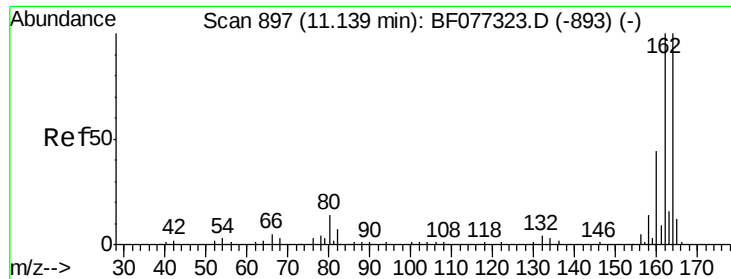
Ion Ratio Lower Upper

142 100

141 89.9 71.2 106.8

115 28.5 23.8 35.8

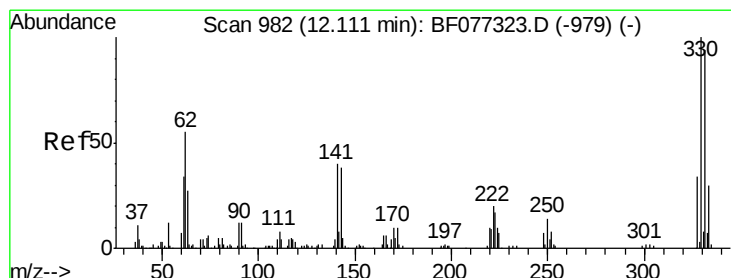
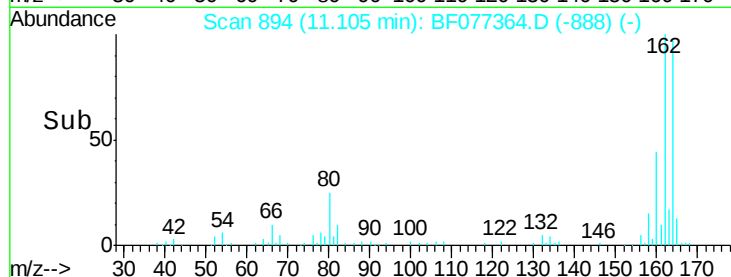
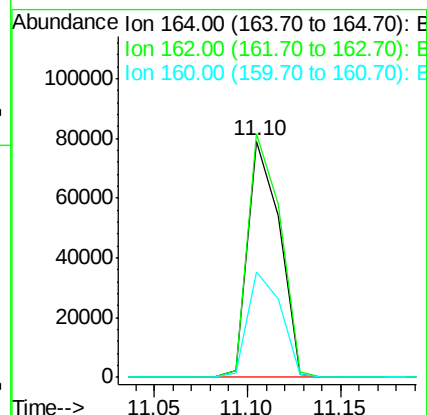
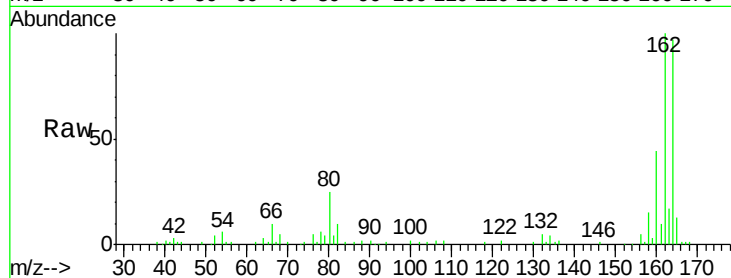




#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 11.10 min Scan# 894  
 Delta R.T. -0.03 min  
 Lab File: BF077364.D  
 Acq: 18 Feb 2015 20:58

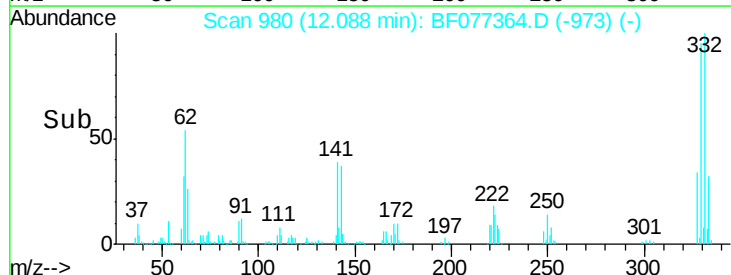
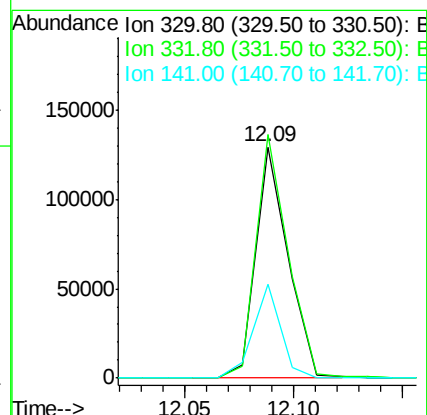
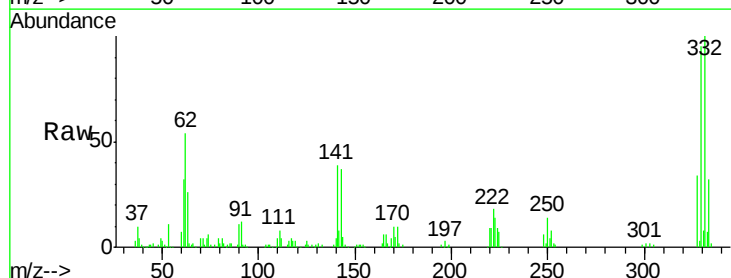
Instrument :  
 BNA\_F  
 ClientSampleId :

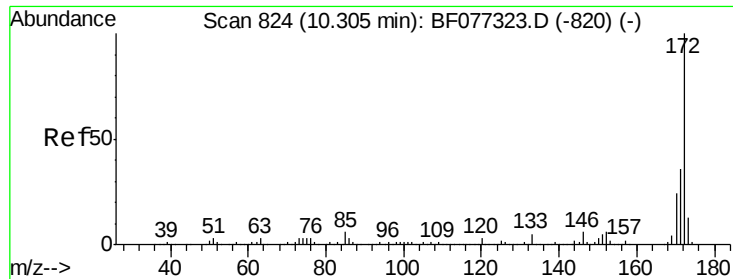
Tgt Ion:164 Resp: 93616  
 Ion Ratio Lower Upper  
 164 100  
 162 103.0 80.4 120.6  
 160 44.8 35.3 52.9



#41  
 2,4,6-Tribromophenol  
 Concen: 152.85 ng  
 RT: 12.09 min Scan# 980  
 Delta R.T. -0.02 min  
 Lab File: BF077364.D  
 Acq: 18 Feb 2015 20:58

Tgt Ion:330 Resp: 133487  
 Ion Ratio Lower Upper  
 330 100  
 332 104.4 76.1 114.1  
 141 34.9 28.5 42.7

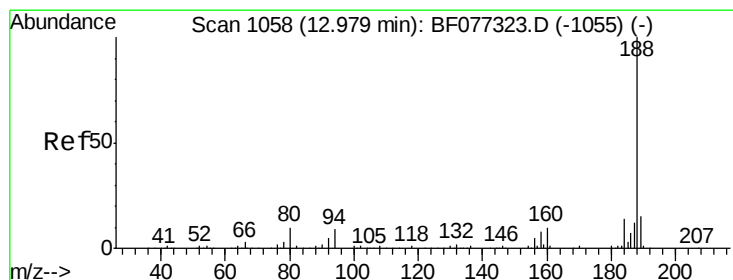
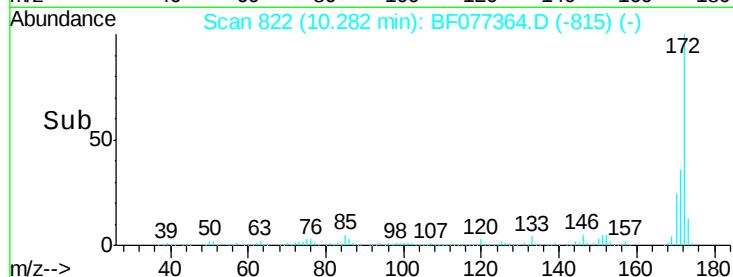
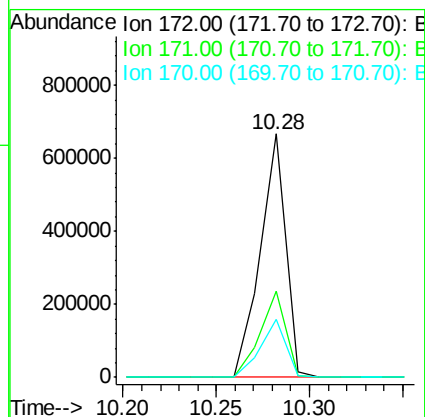
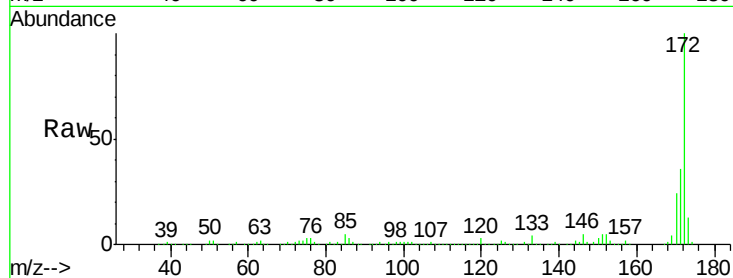




#44  
 2-Fluorobiphenyl  
 Concen: 100.82 ng  
 RT: 10.28 min Scan# 822  
 Delta R.T. -0.02 min  
 Lab File: BF077364.D  
 Acq: 18 Feb 2015 20:58

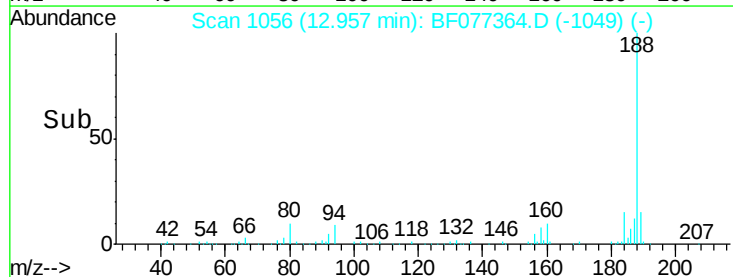
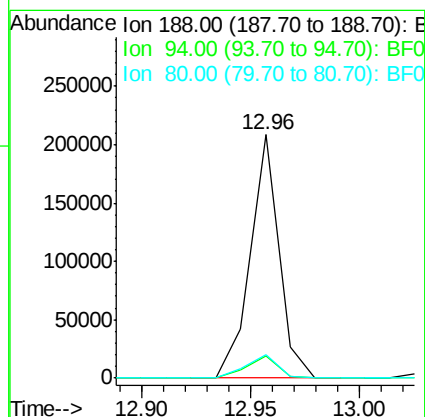
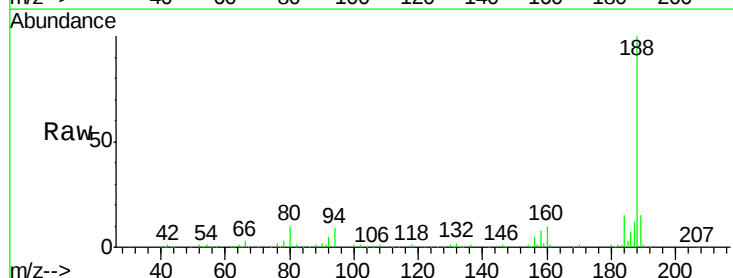
Instrument :  
 BNA\_F  
 ClientSampleId :

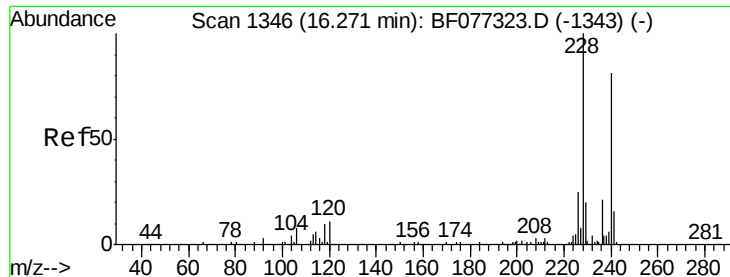
Tgt Ion:172 Resp: 626085  
 Ion Ratio Lower Upper  
 172 100  
 171 35.6 28.9 43.3  
 170 23.6 19.4 29.2



#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 12.96 min Scan# 1056  
 Delta R.T. -0.02 min  
 Lab File: BF077364.D  
 Acq: 18 Feb 2015 20:58

Tgt Ion:188 Resp: 190787  
 Ion Ratio Lower Upper  
 188 100  
 94 9.2 7.2 10.8  
 80 9.5 7.8 11.8





#75

Chrysene-d12

Concen: 20.00 ng

RT: 16.25 min Scan# 1344

Delta R.T. -0.02 min

Lab File: BF077364.D

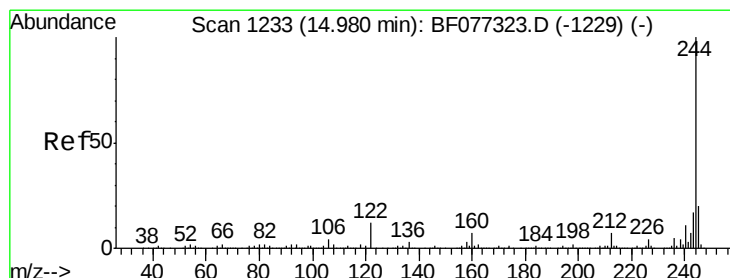
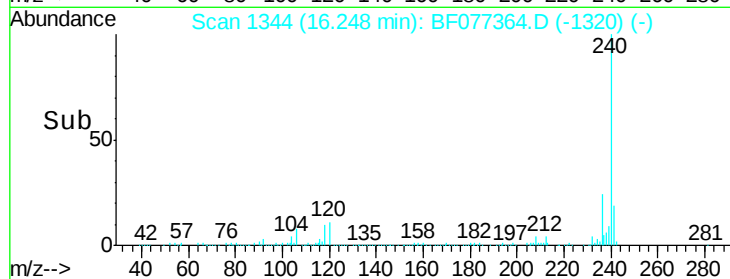
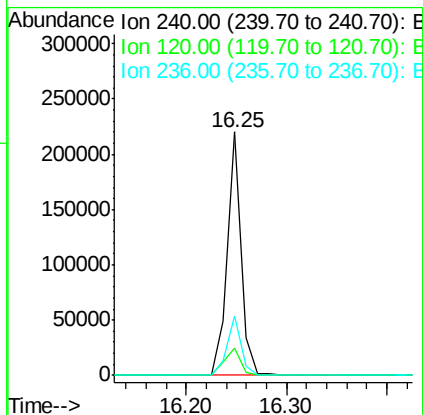
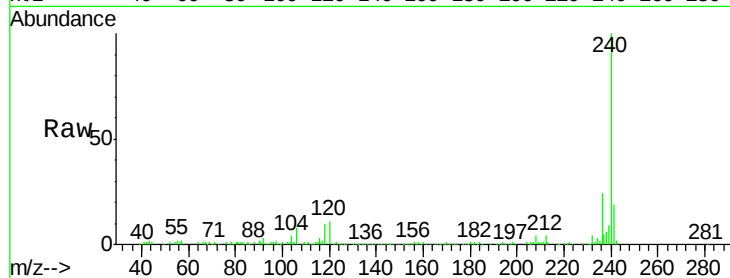
Acq: 18 Feb 2015 20:58

Instrument :

BNA\_F

ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 240   | Resp: | 211857 |
| Ion      | Ratio | Lower | Upper  |
| 240      | 100   |       |        |
| 120      | 11.3  | 11.3  | 16.9   |
| 236      | 24.3  | 20.3  | 30.5   |



#78

Terphenyl-d14

Concen: 77.71 ng

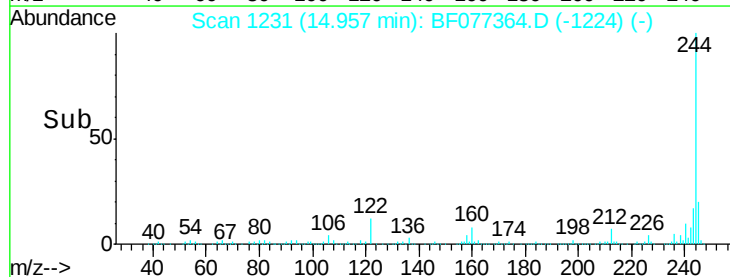
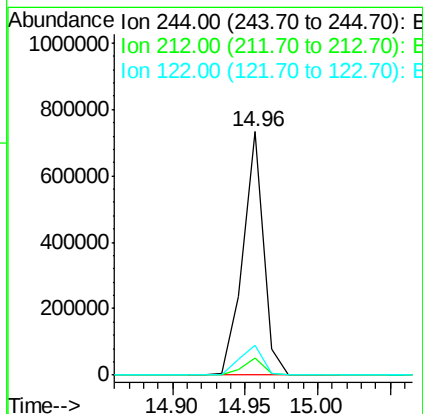
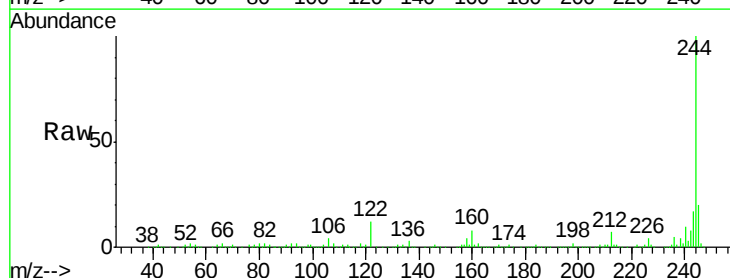
RT: 14.96 min Scan# 1231

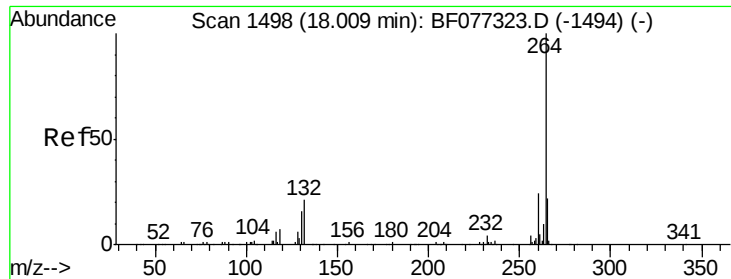
Delta R.T. -0.02 min

Lab File: BF077364.D

Acq: 18 Feb 2015 20:58

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 244   | Resp: | 724100 |
| Ion      | Ratio | Lower | Upper  |
| 244      | 100   |       |        |
| 212      | 7.0   | 5.4   | 8.0    |
| 122      | 12.5  | 9.3   | 13.9   |





#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 17.96 min Scan# 1494  
Delta R.T. -0.05 min  
Lab File: BF077364.D  
Acq: 18 Feb 2015 20:58

Instrument :  
BNA\_F  
ClientSampleId :

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.0  | 18.9  | 28.3  |
| 265     | 21.0  | 17.7  | 26.5  |

