

Data Path : Z:\HPCHEM1\BNA M\DATA\BM051917\  
 Data File : BM010080.D  
 Acq On : 19 May 2017 21:50  
 Operator : SJ/MA  
 Sample : I3202-16  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 SB-2COMP

Quant Time: May 20 04:37:46 2017  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\8270-BM051917.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri May 19 14:14:03 2017  
 Response via : Initial Calibration

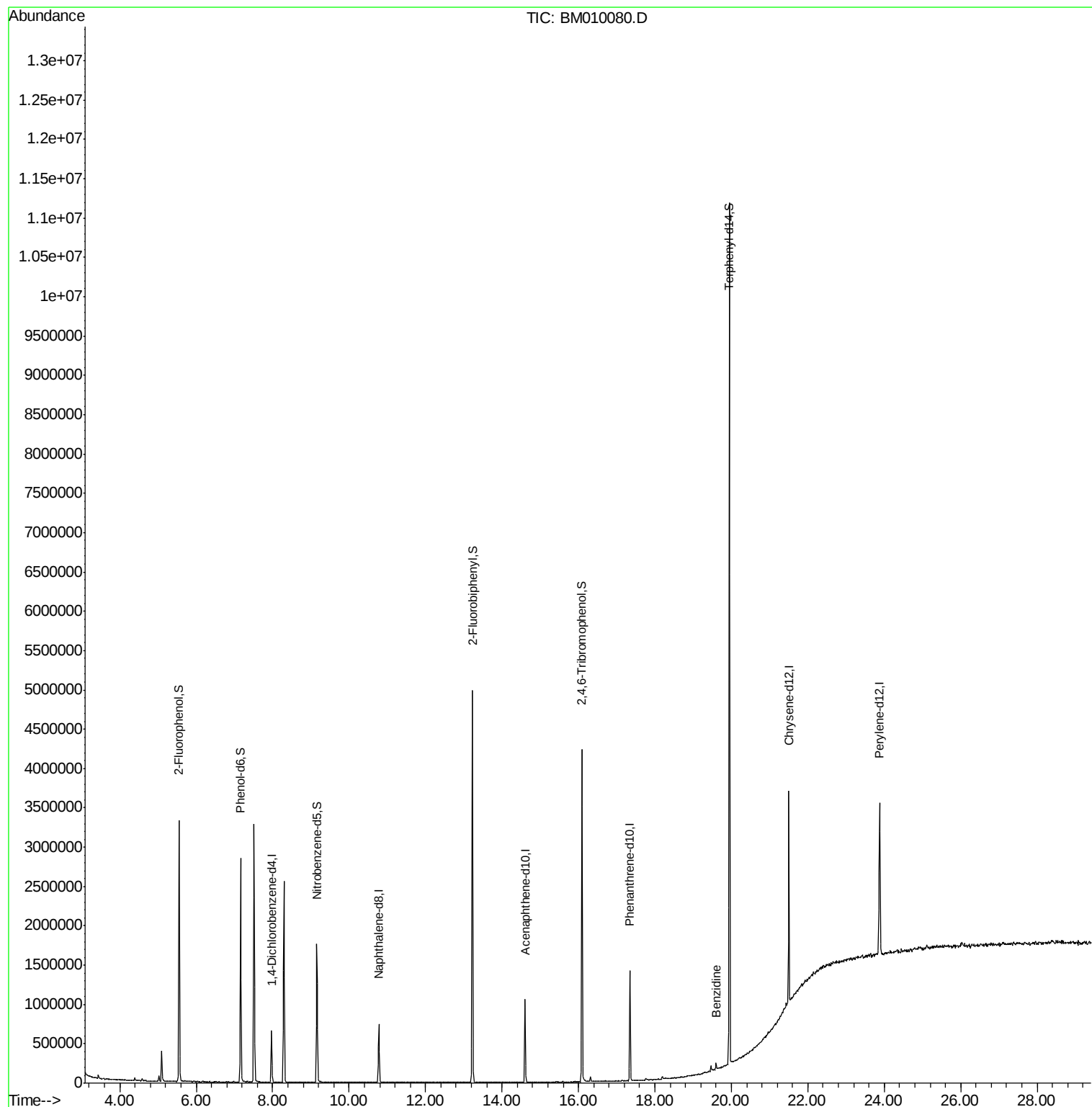
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min)     |
|-----------------------------|-------|------|----------|--------|-------|--------------|
| 1) 1,4-Dichlorobenzene-d4   | 7.97  | 152  | 171066   | 20.00  | ng    | 0.00         |
| 21) Naphthalene-d8          | 10.78 | 136  | 566885   | 20.00  | ng    | 0.00         |
| 38) Acenaphthene-d10        | 14.60 | 164  | 340510   | 20.00  | ng    | 0.00         |
| 63) Phenanthrene-d10        | 17.34 | 188  | 825819   | 20.00  | ng    | 0.00         |
| 75) Chrysene-d12            | 21.50 | 240  | 1311706  | 20.00  | ng    | 0.00         |
| 86) Perylene-d12            | 23.87 | 264  | 1564693  | 20.00  | ng    | -0.01        |
| System Monitoring Compounds |       |      |          |        |       |              |
| 5) 2-Fluorophenol           | 5.56  | 112  | 1284626  | 135.61 | ng    | 0.00         |
| 7) Phenol-d6                | 7.16  | 99   | 1496682  | 122.79 | ng    | 0.00         |
| 23) Nitrobenzene-d5         | 9.16  | 82   | 1021828  | 97.25  | ng    | -0.01        |
| 41) 2,4,6-Tribromophenol    | 16.09 | 330  | 753161   | 145.63 | ng    | 0.00         |
| 44) 2-Fluorobiphenyl        | 13.23 | 172  | 2568663  | 96.98  | ng    | 0.00         |
| 78) Terphenyl-d14           | 19.95 | 244  | 4772421  | 82.73  | ng    | 0.00         |
| Target Compounds            |       |      |          |        |       |              |
| 76) Benzidine               | 19.60 | 184  | 52988    | 2.19   | ng    | Qvalue<br>97 |

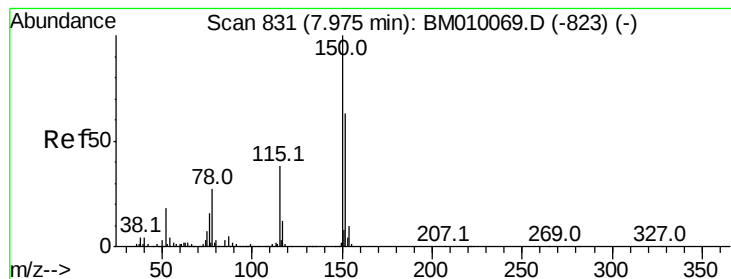
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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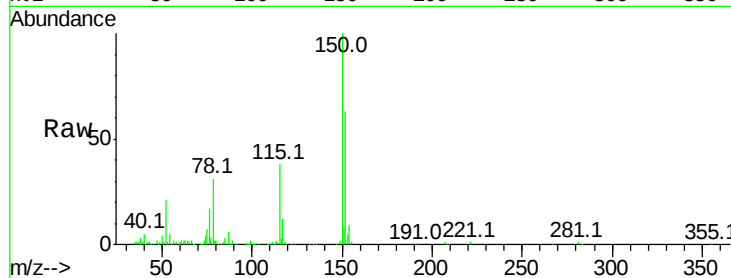


#1

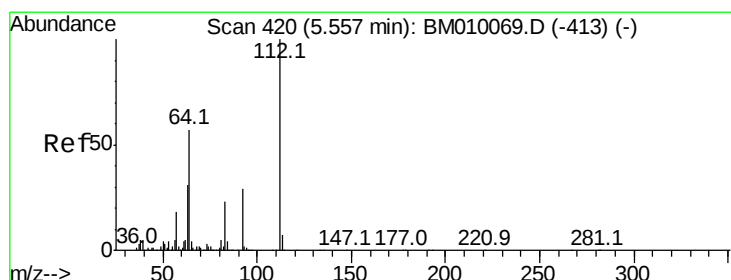
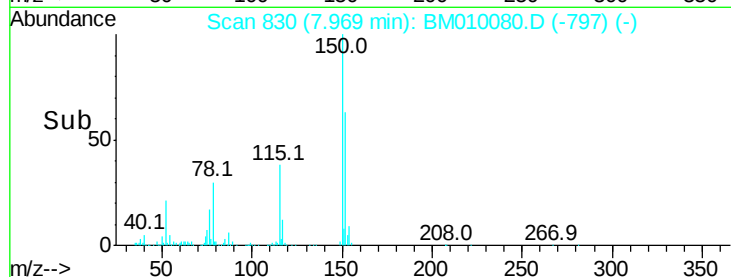
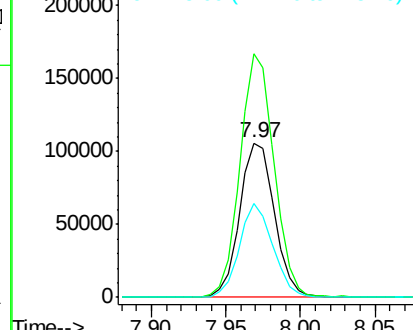
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 7.97 min Scan# 830  
Delta R.T. -0.01 min  
Lab File: BM010080.D  
Acq: 19 May 2017 21:50

Instrument :  
BNA\_M  
ClientSampleId :  
SB-2COMP

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 157.5 | 119.5 | 179.3 |
| 115     | 60.4  | 43.0  | 64.4  |



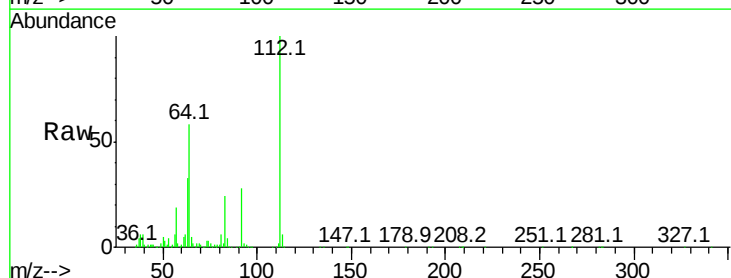
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



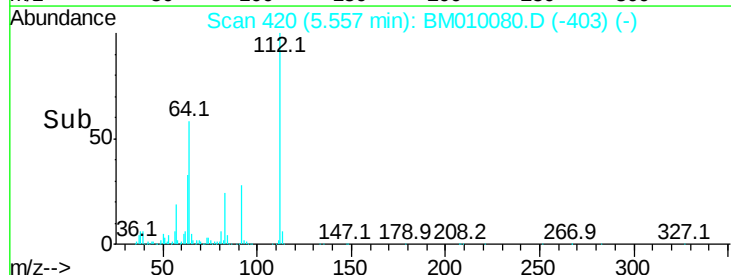
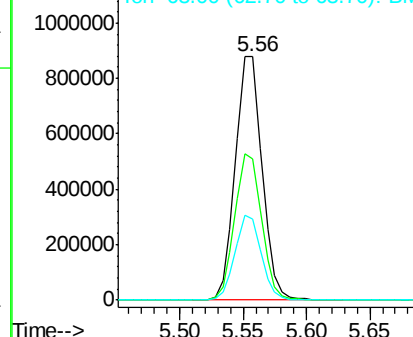
#5

2-Fluorophenol  
Concen: 135.61 ng  
RT: 5.56 min Scan# 420  
Delta R.T. 0.00 min  
Lab File: BM010080.D  
Acq: 19 May 2017 21:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 58.2  | 38.6  | 57.8# |
| 63      | 33.3  | 19.3  | 28.9# |



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BM0  
Ion 63.00 (62.70 to 63.70): BM0





#7

Phenol-d6

Concen: 122.79 ng

RT: 7.16 min Scan# 693

Delta R.T. -0.01 min

Lab File: BM010080.D

Acq: 19 May 2017 21:50

Instrument :

BNA\_M

ClientSampled :

SB-2COMP

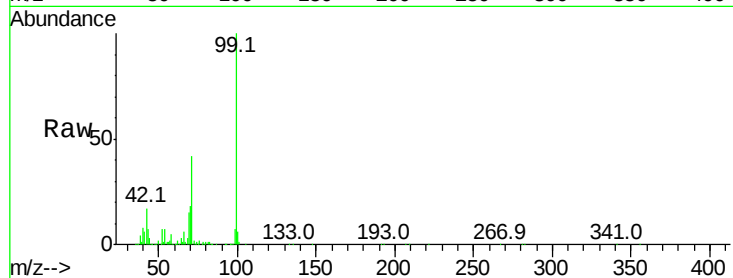
Tot Ion: 99 Resp: 1496682

Ion Ratio Lower Upper

99 100

42 17.1 11.0 16.4#

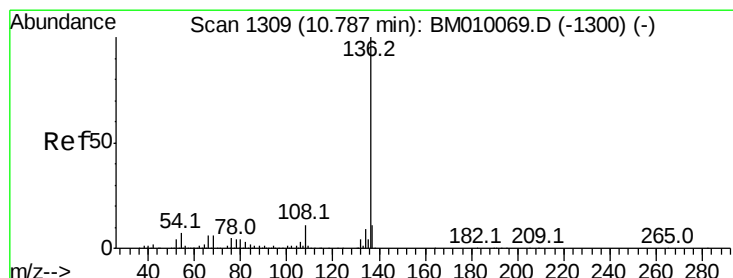
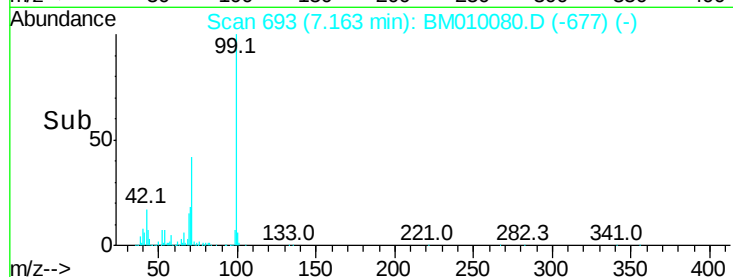
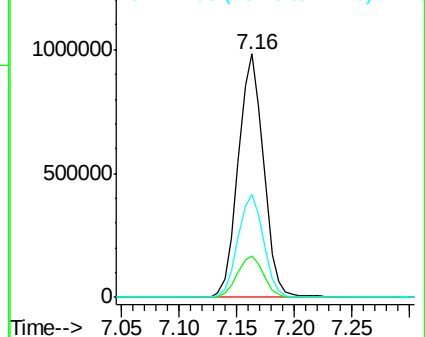
71 42.5 23.4 35.2#



Abundance Ion 99.00 (98.70 to 99.70): BM010069.D (-686) (-)

Ion 42.00 (41.70 to 42.70): BM010069.D (-686) (-)

Ion 71.00 (70.70 to 71.70): BM010069.D (-686) (-)



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 10.78 min Scan# 1308

Delta R.T. -0.01 min

Lab File: BM010080.D

Acq: 19 May 2017 21:50

Tgt Ion:136 Resp: 566885

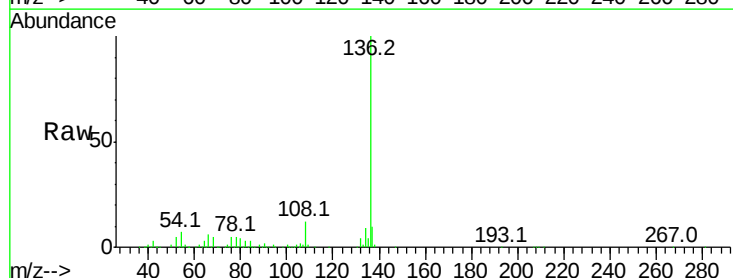
Ion Ratio Lower Upper

136 100

137 10.4 8.7 13.1

54 6.9 4.6 6.8#

68 5.3 3.7 5.5

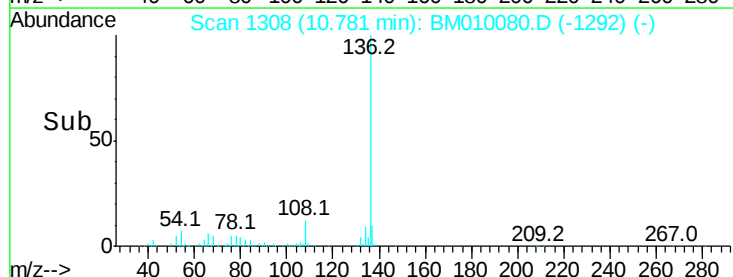
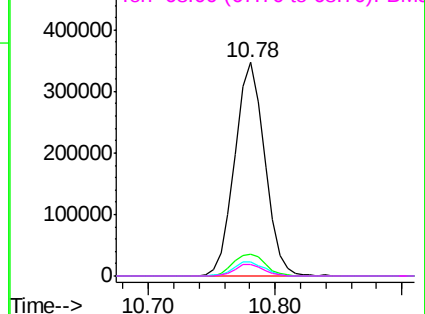


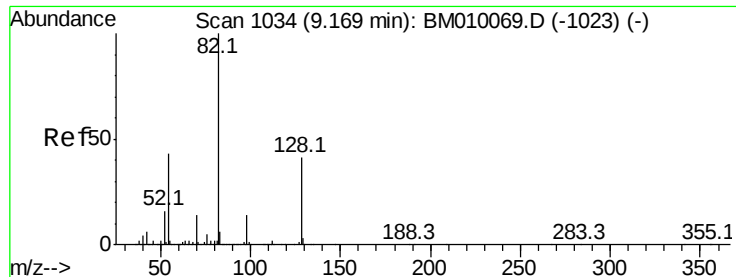
Abundance Ion 136.00 (135.70 to 136.70): BM010069.D (-1300) (-)

Ion 137.00 (136.70 to 137.70): BM010069.D (-1300) (-)

Ion 54.00 (53.70 to 54.70): BM010069.D (-1300) (-)

Ion 68.00 (67.70 to 68.70): BM010069.D (-1300) (-)

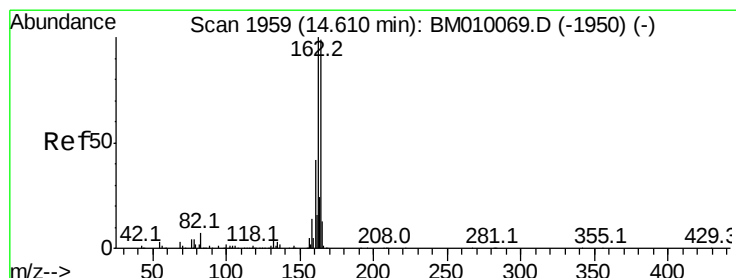
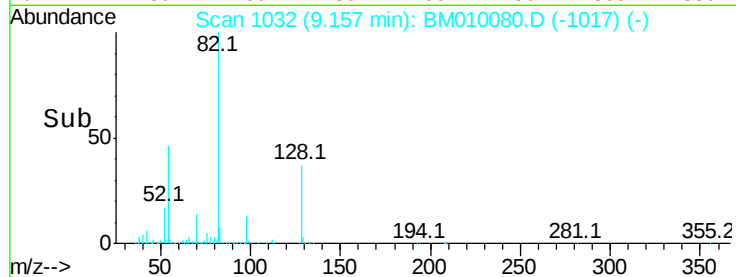
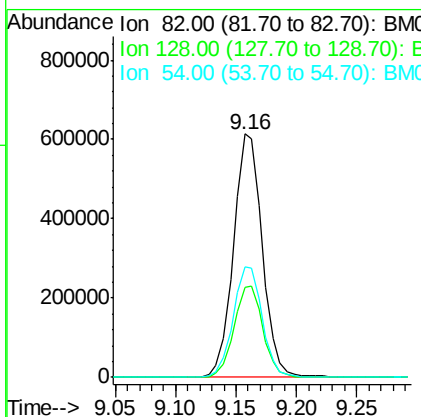
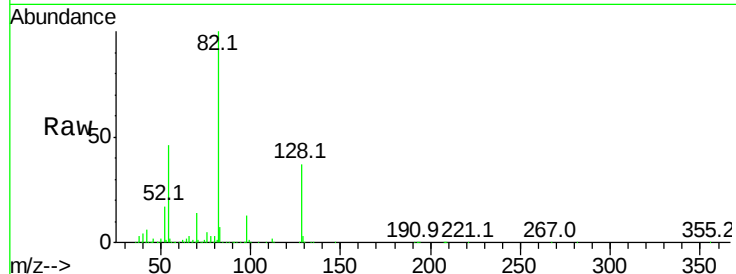




#23  
 Nitrobenzene-d5  
 Concen: 97.25 ng  
 RT: 9.16 min Scan# 1032  
 Delta R.T. -0.01 min  
 Lab File: BM010080.D  
 Acq: 19 May 2017 21:50

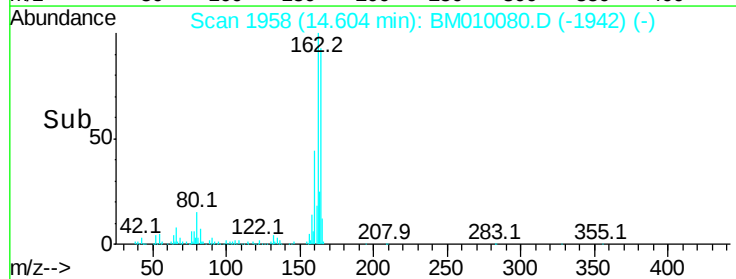
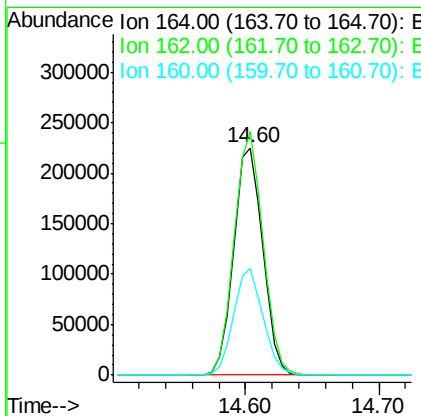
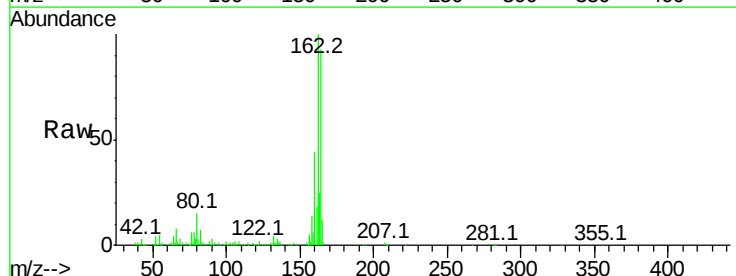
Instrument :  
 BNA\_M  
 ClientSampleID :  
 SB-2COMP

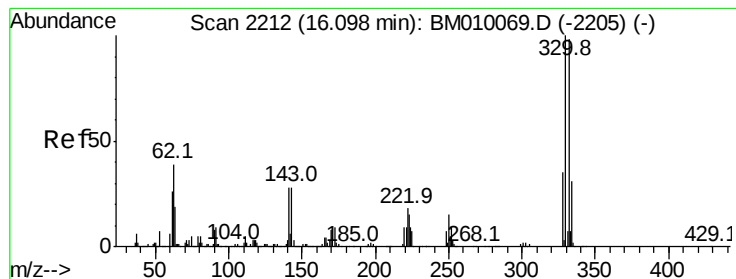
| Tot Ion | 82    | Resp  | 1021828 |
|---------|-------|-------|---------|
| Ion     | Ratio | Lower | Upper   |
| 82      | 100   |       |         |
| 128     | 36.7  | 32.8  | 49.2    |
| 54      | 45.5  | 40.6  | 60.8    |



#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 14.60 min Scan# 1958  
 Delta R.T. -0.01 min  
 Lab File: BM010080.D  
 Acq: 19 May 2017 21:50

| Tgt Ion | 164   | Resp  | 340510 |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 164     | 100   |       |        |
| 162     | 107.2 | 82.4  | 123.6  |
| 160     | 46.7  | 35.8  | 53.6   |





#41

2,4,6-Tribromophenol

Concen: 145.63 ng

RT: 16.09 min Scan# 2211

Delta R.T. -0.01 min

Lab File: BM010080.D

Acq: 19 May 2017 21:50

Instrument :

BNA\_M

ClientSampleId :

SB-2COMP

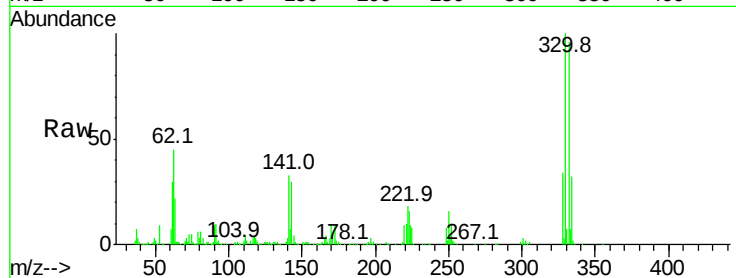
Tot Ion:330 Resp: 753161

Ion Ratio Lower Upper

330 100

332 96.2 0.0 0.0#

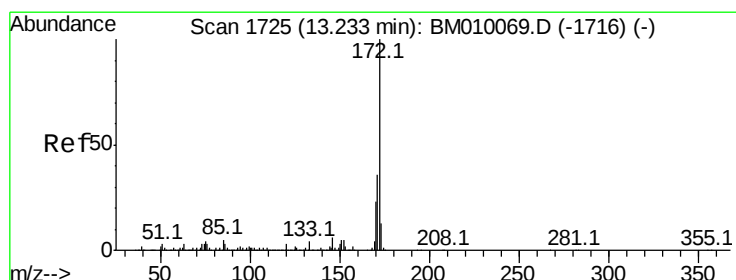
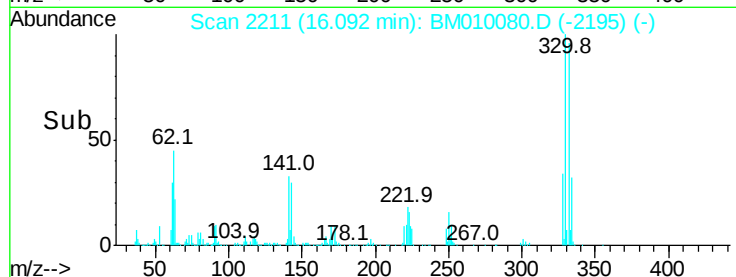
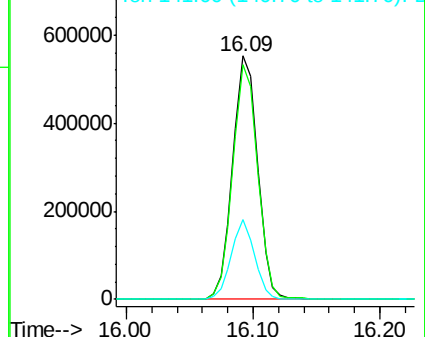
141 30.7 0.0 0.0#



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: 96.98 ng

RT: 13.23 min Scan# 1724

Delta R.T. -0.01 min

Lab File: BM010080.D

Acq: 19 May 2017 21:50

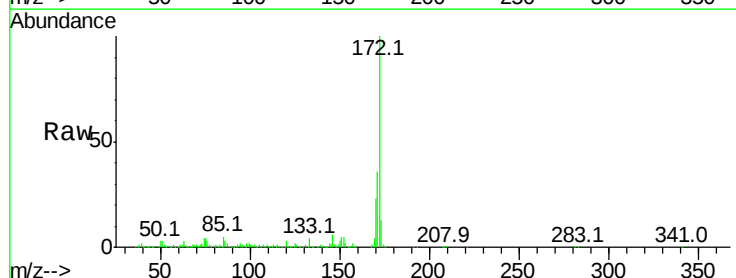
Tgt Ion:172 Resp: 2568663

Ion Ratio Lower Upper

172 100

171 35.7 28.5 42.7

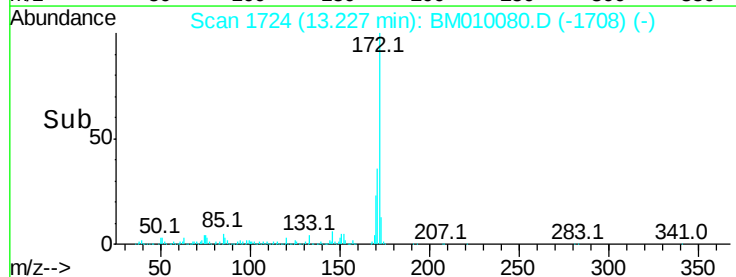
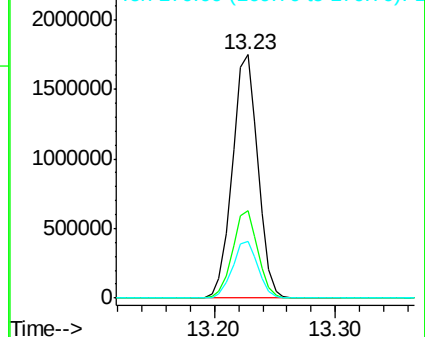
170 23.2 18.8 28.2

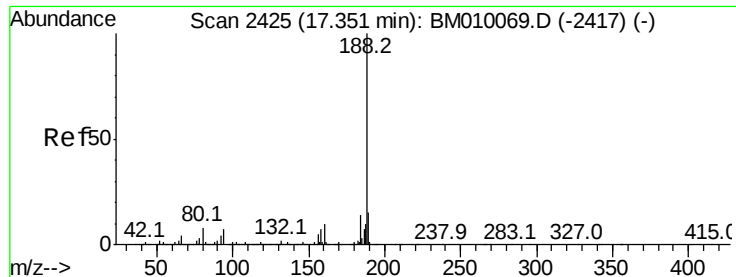


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E

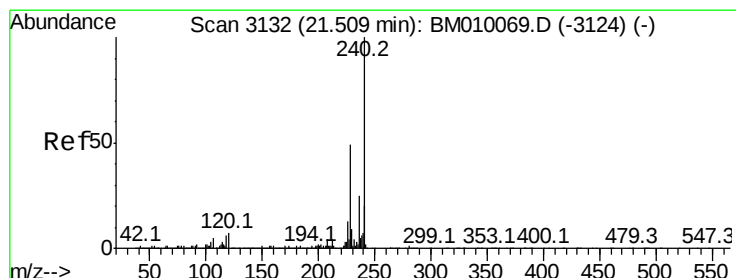
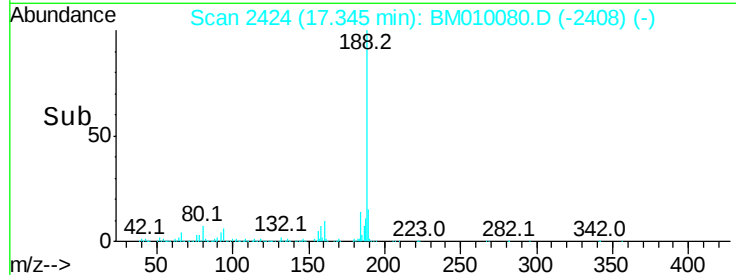
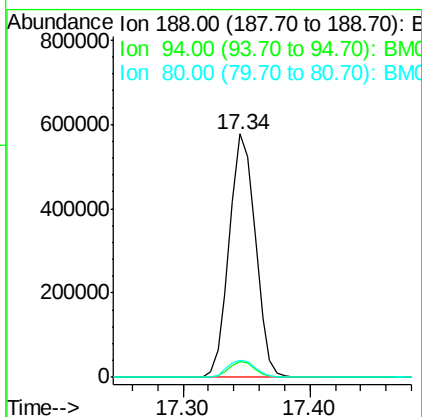
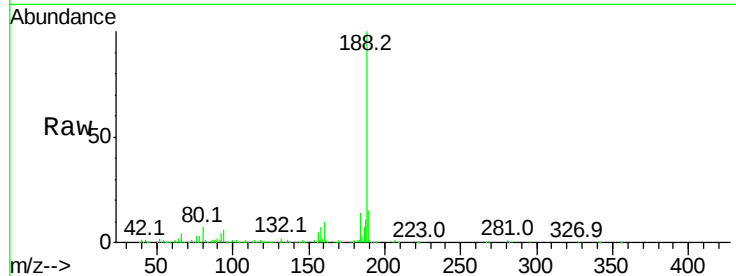




#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 17.34 min Scan# 2424  
Delta R.T. -0.01 min  
Lab File: BM010080.D  
Acq: 19 May 2017 21:50

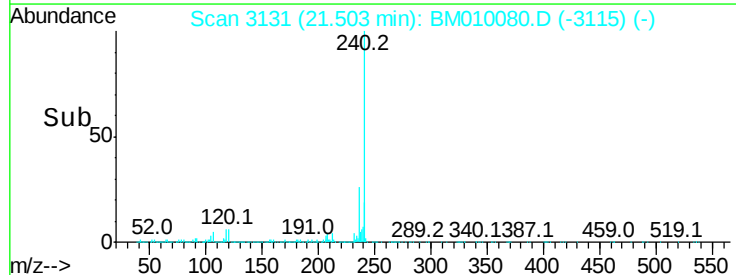
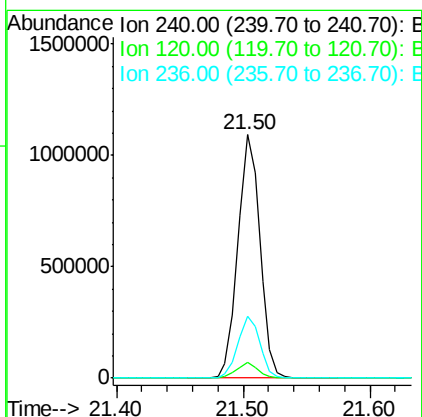
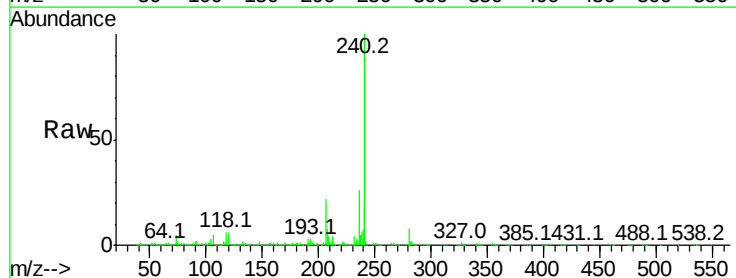
Instrument :  
BNA\_M  
ClientSampleId :  
SB-2COMP

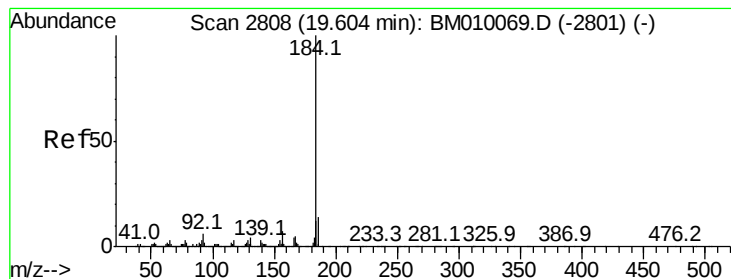
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 6.3   | 8.7   | 13.1# |
| 80      | 7.2   | 9.3   | 13.9# |



#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 21.50 min Scan# 3131  
Delta R.T. -0.01 min  
Lab File: BM010080.D  
Acq: 19 May 2017 21:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 6.3   | 8.2   | 12.2# |
| 236     | 25.7  | 20.0  | 30.0  |





#76

Benzidine

Concen: 2.19 ng

RT: 19.60 min Scan# 2807

Delta R.T. -0.01 min

Lab File: BM010080.D

Acq: 19 May 2017 21:50

Instrument :

BNA\_M

ClientSampleId :

SB-2COMP

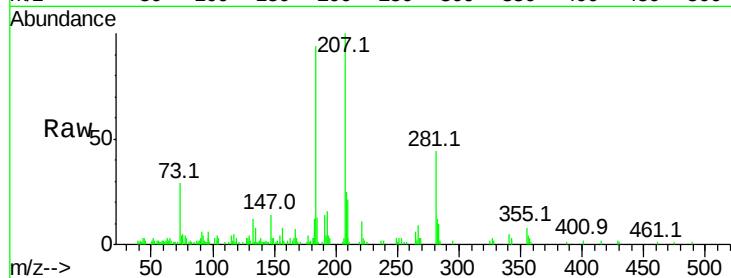
Tot Ion:184 Resp: 52988

Ion Ratio Lower Upper

184 100

185 14.4 11.3 16.9

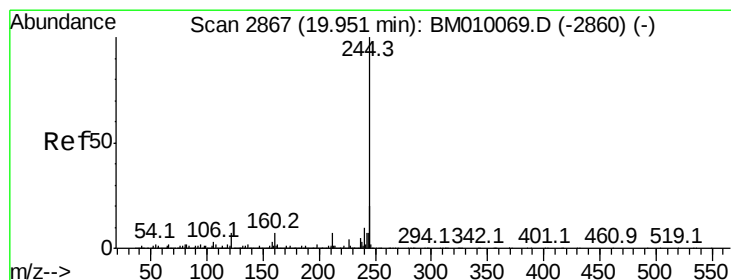
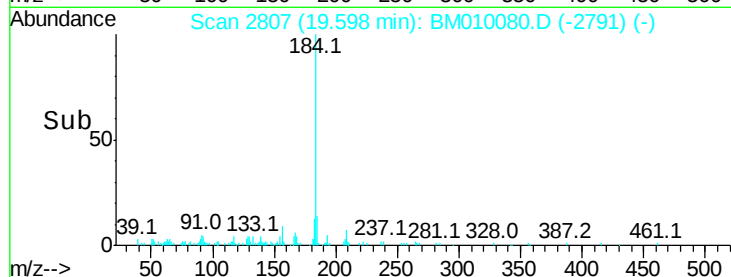
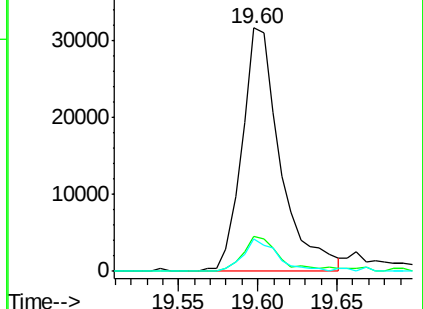
183 13.3 8.9 13.3



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E



#78

Terphenyl-d14

Concen: 82.73 ng

RT: 19.95 min Scan# 2867

Delta R.T. -0.00 min

Lab File: BM010080.D

Acq: 19 May 2017 21:50

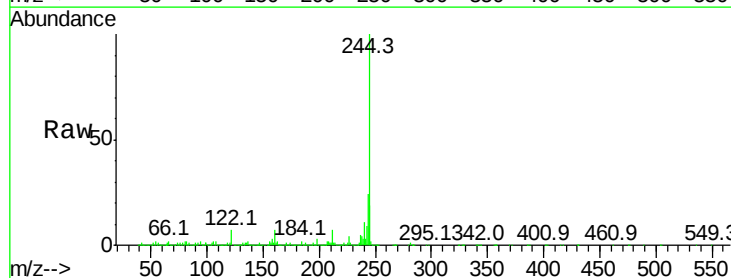
Tgt Ion:244 Resp: 4772421

Ion Ratio Lower Upper

244 100

212 7.1 4.9 7.3

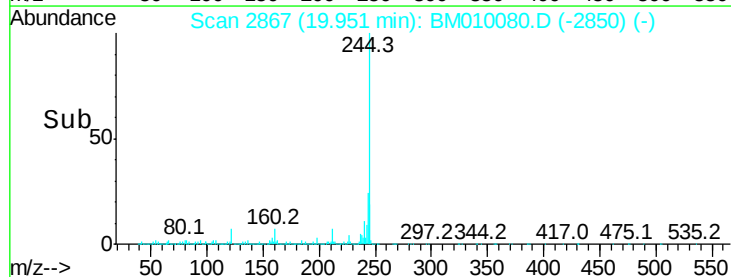
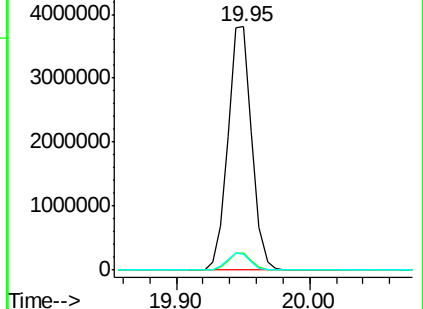
122 6.7 6.2 9.4

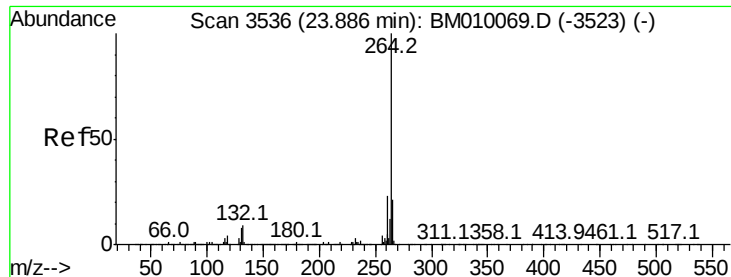


Abundance Ion 244.00 (243.70 to 244.70): E

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: 23.87 min Scan# 3534  
 Delta R.T. -0.01 min  
 Lab File: BM010080.D  
 Acq: 19 May 2017 21:50

Instrument :  
 BNA\_M  
 ClientSampleId :  
 SB-2COMP

Tot Ion:264 Resp: 1564693  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 23.2  | 18.6  | 27.8  |
| 265 | 23.5  | 17.3  | 25.9  |

