

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM121015\  
 Data File : BM003474.D  
 Acq On : 11 Dec 2015 04:10  
 Operator : UM/IZ  
 Sample : G4725-03  
 Misc :  
 ALS Vial : 42 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 SB3(2-4)

Quant Time: Dec 11 07:01:23 2015  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\8270-BM120915.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Dec 09 18:52:47 2015  
 Response via : Initial Calibration

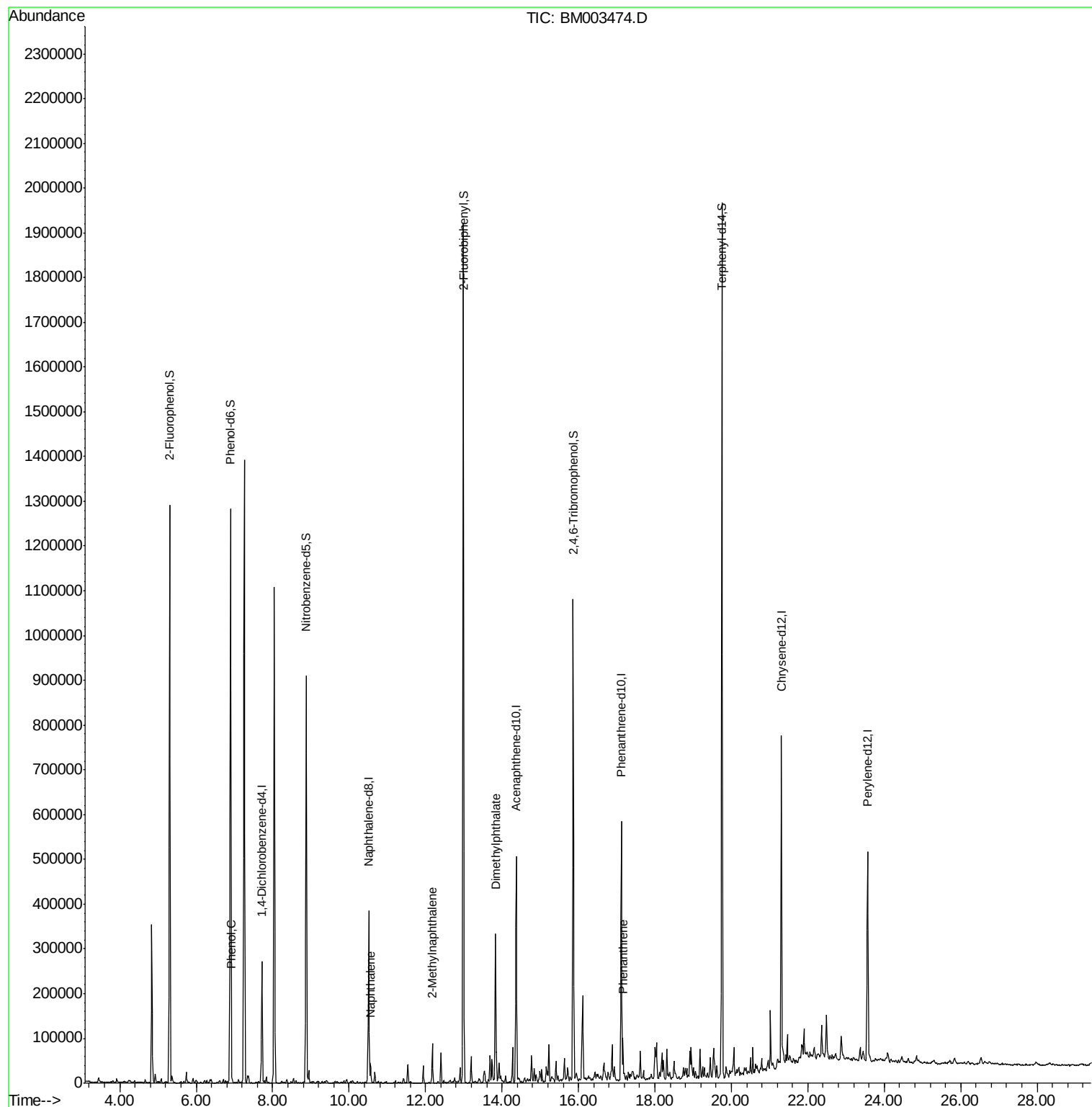
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min)       |
|-----------------------------|-------|------|----------|--------|-------|----------------|
| 1) 1,4-Dichlorobenzene-d4   | 7.72  | 152  | 76216    | 20.00  | ng    | 0.00           |
| 21) Naphthalene-d8          | 10.51 | 136  | 328476   | 20.00  | ng    | 0.00           |
| 38) Acenaphthene-d10        | 14.37 | 164  | 172193   | 20.00  | ng    | 0.00           |
| 63) Phenanthrene-d10        | 17.12 | 188  | 335589   | 20.00  | ng    | 0.00           |
| 75) Chrysene-d12            | 21.31 | 240  | 326237   | 20.00  | ng    | -0.01          |
| 86) Perylene-d12            | 23.56 | 264  | 325661   | 20.00  | ng    | -0.01          |
| System Monitoring Compounds |       |      |          |        |       |                |
| 5) 2-Fluorophenol           | 5.30  | 112  | 598473   | 139.61 | ng    | 0.00           |
| 7) Phenol-d6                | 6.90  | 99   | 829936   | 139.42 | ng    | 0.00           |
| 23) Nitrobenzene-d5         | 8.88  | 82   | 543537   | 102.60 | ng    | 0.00           |
| 41) 2,4,6-Tribromophenol    | 15.86 | 330  | 175149   | 101.85 | ng    | 0.00           |
| 44) 2-Fluorobiphenyl        | 12.99 | 172  | 1025878  | 81.17  | ng    | 0.00           |
| 78) Terphenyl-d14           | 19.75 | 244  | 845969   | 61.15  | ng    | 0.00           |
| Target Compounds            |       |      |          |        |       |                |
| 10) Phenol                  | 6.92  | 94   | 14849    | 2.35   | ng    | Qvalue<br># 75 |
| 31) Naphthalene             | 10.56 | 128  | 41085    | 2.39   | ng    | 99             |
| 37) 2-Methylnaphthalene     | 12.18 | 142  | 45903    | 3.89   | ng    | 96             |
| 49) Dimethylphthalate       | 13.83 | 163  | 216735   | 15.27  | ng    | 99             |
| 70) Phenanthrene            | 17.16 | 178  | 56653    | 3.01   | ng    | 99             |

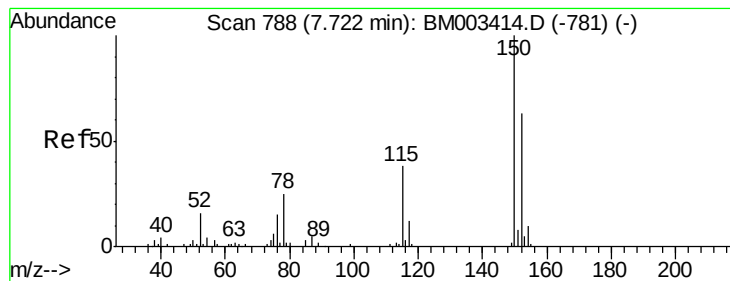
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM121015\  
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ALS Vial : 42 Sample Multiplier: 1

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BNA\_M  
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SB3(2-4)

Quant Time: Dec 11 07:01:23 2015  
Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\8270-BM120915.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Dec 09 18:52:47 2015  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 7.72 min Scan# 788

Delta R.T. -0.00 min

Lab File: BM003474.D

Acq: 11 Dec 2015 04:10

Instrument :

BNA\_M

ClientSampleId :

SB3(2-4)

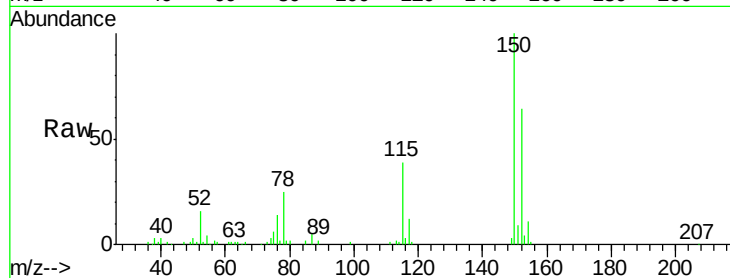
Tgt Ion:152 Resp: 76216

Ion Ratio Lower Upper

152 100

150 155.7 119.5 179.3

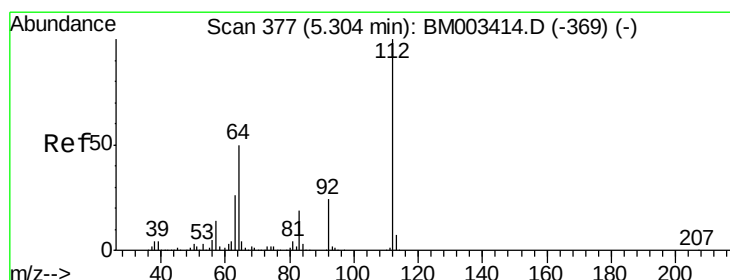
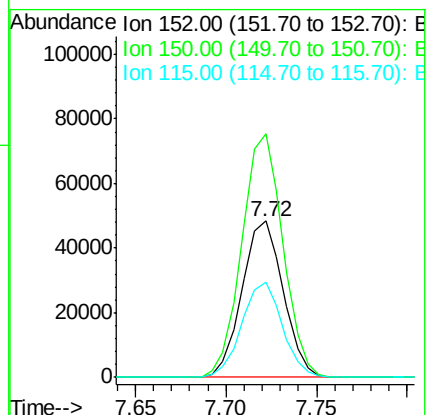
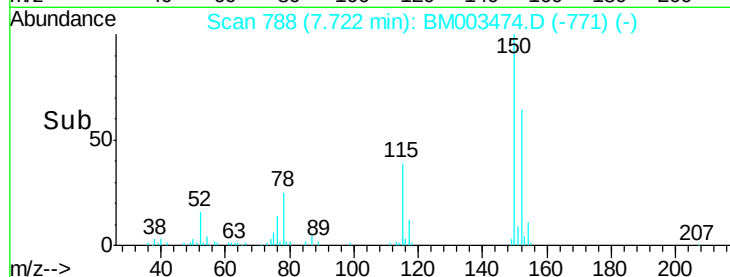
115 60.5 43.0 64.4



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: 139.61 ng

RT: 5.30 min Scan# 377

Delta R.T. 0.00 min

Lab File: BM003474.D

Acq: 11 Dec 2015 04:10

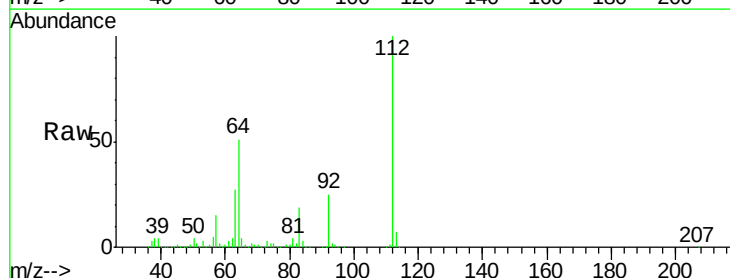
Tgt Ion:112 Resp: 598473

Ion Ratio Lower Upper

112 100

64 50.6 38.6 57.8

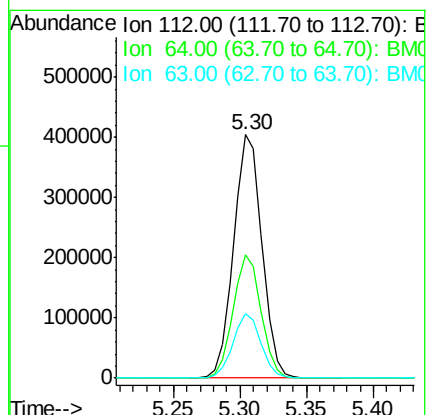
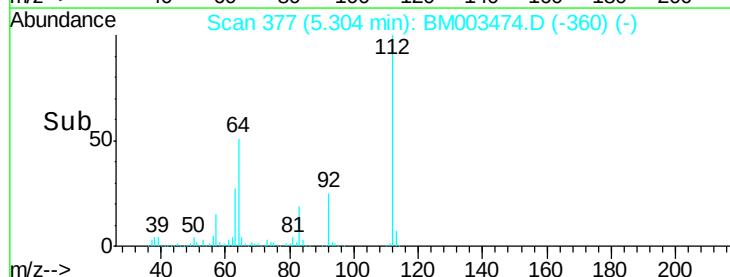
63 26.5 19.3 28.9

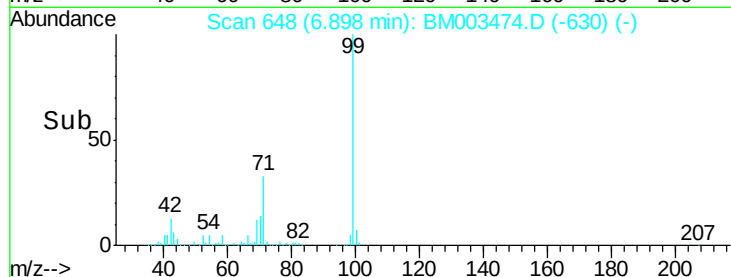
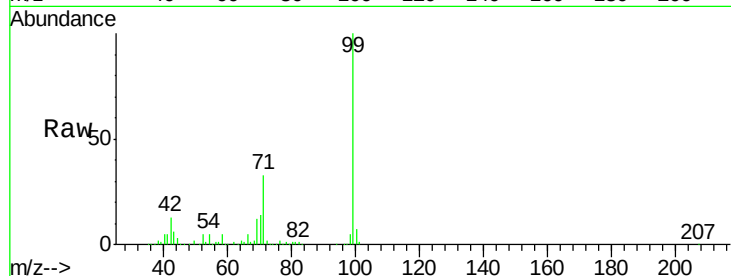
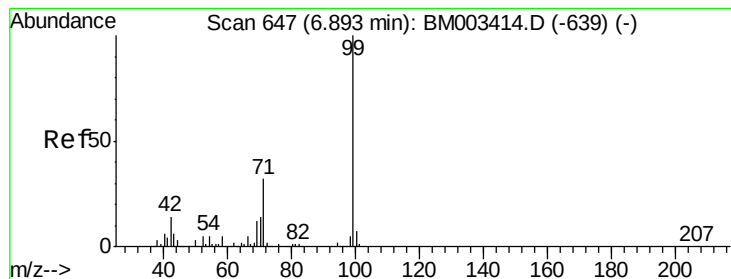


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BM0

Ion 63.00 (62.70 to 63.70): BM0





#7

Phenol-d6

Concen: 139.42 ng

RT: 6.90 min Scan# 648

Delta R.T. 0.01 min

Lab File: BM003474.D

Acq: 11 Dec 2015 04:10

Instrument :

BNA\_M

ClientSampleId :

SB3(2-4)

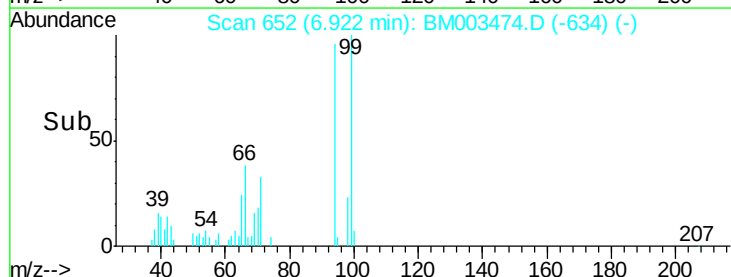
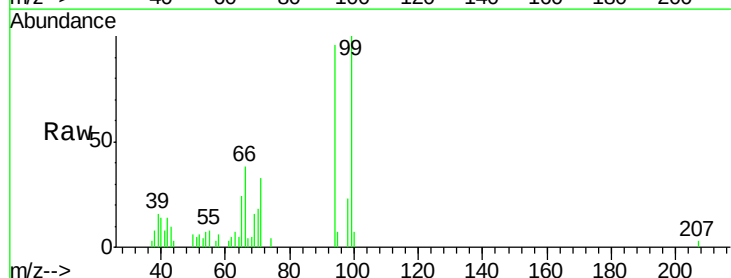
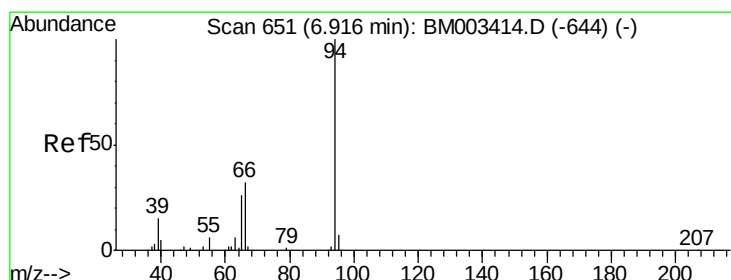
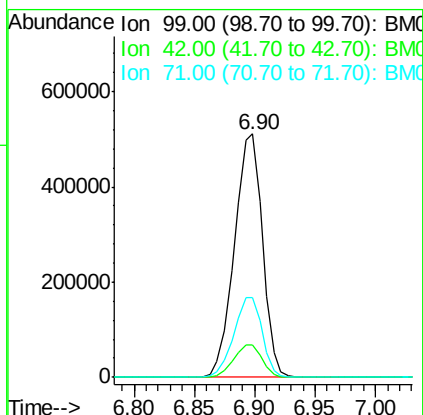
Tgt Ion: 99 Resp: 829936

Ion Ratio Lower Upper

99 100

42 13.1 11.0 16.4

71 32.8 23.4 35.2



#10

Phenol

Concen: 2.35 ng

RT: 6.92 min Scan# 652

Delta R.T. 0.01 min

Lab File: BM003474.D

Acq: 11 Dec 2015 04:10

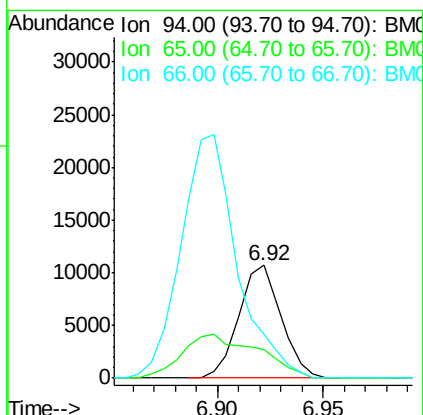
Tgt Ion: 94 Resp: 14849

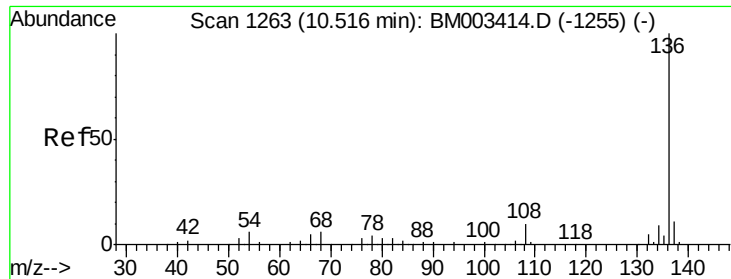
Ion Ratio Lower Upper

94 100

65 24.9 18.8 58.8

66 39.6 39.9 79.9#

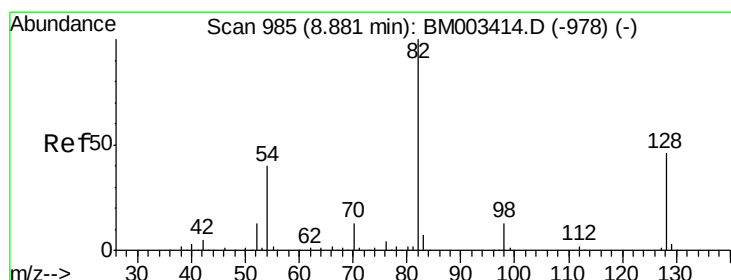
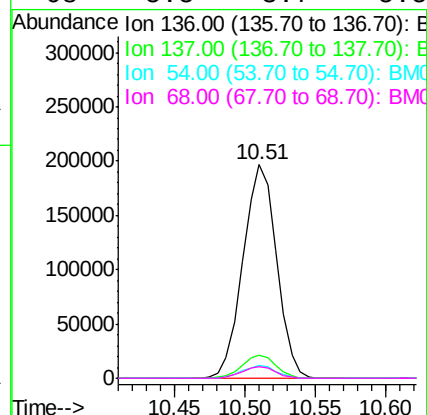
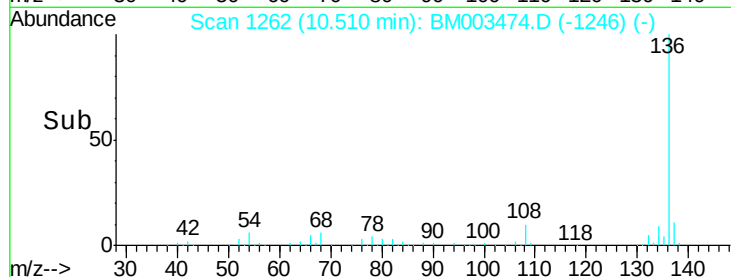
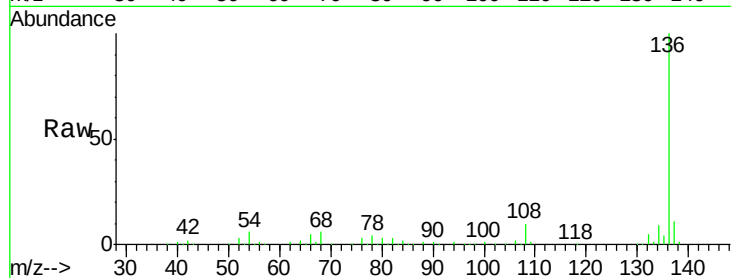




#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 10.51 min Scan# 1262  
Delta R.T. -0.01 min  
Lab File: BM003474.D  
Acq: 11 Dec 2015 04:10

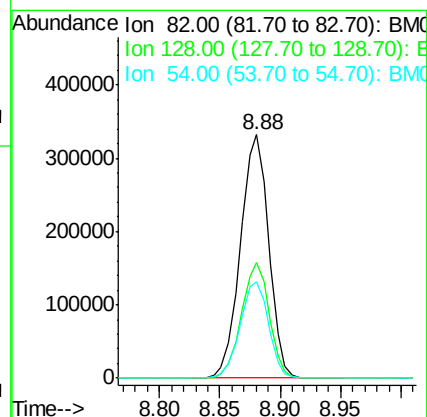
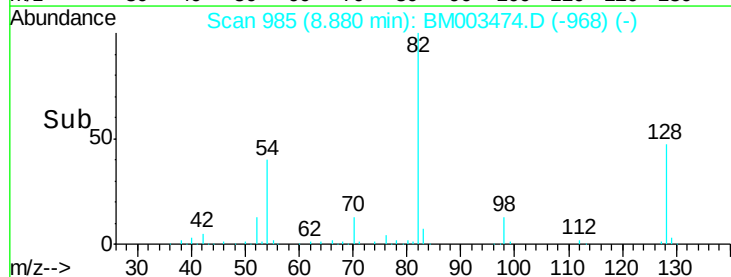
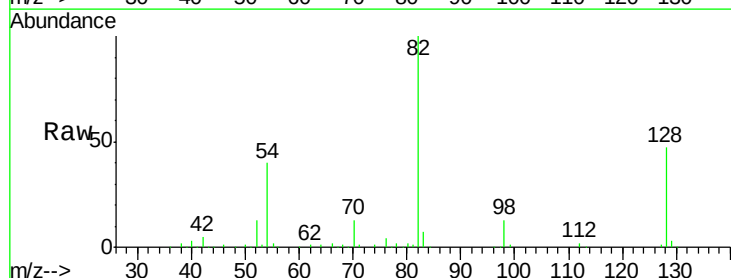
Instrument :  
BNA\_M  
ClientSampleId :  
SB3(2-4)

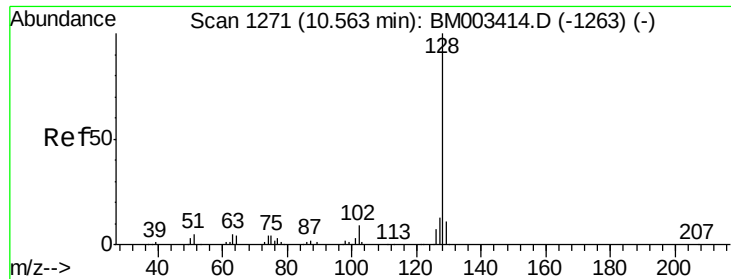
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 328476 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.8  | 8.7   | 13.1   |
| 54       | 5.9   | 4.6   | 6.8    |
| 68       | 5.5   | 3.7   | 5.5#   |



#23  
Nitrobenzene-d5  
Concen: 102.60 ng  
RT: 8.88 min Scan# 985  
Delta R.T. -0.00 min  
Lab File: BM003474.D  
Acq: 11 Dec 2015 04:10

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 543537 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 47.4  | 32.8  | 49.2   |
| 54       | 39.8  | 40.6  | 60.8#  |

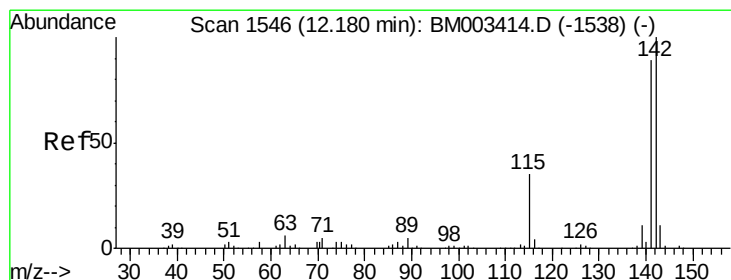
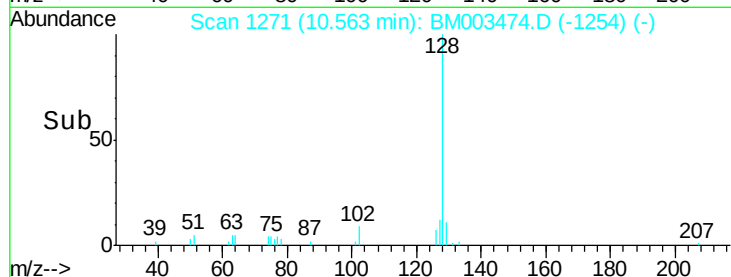
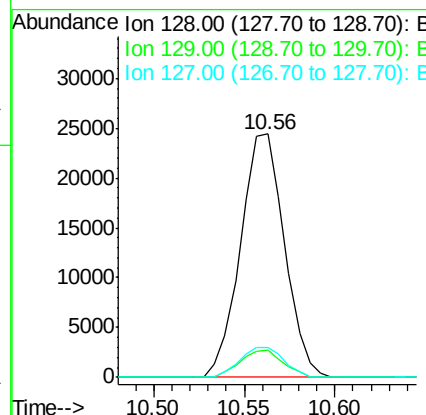
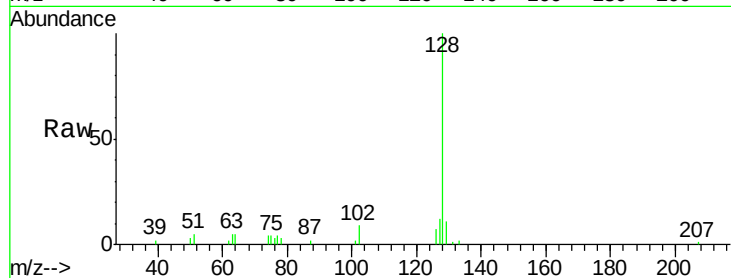




#31  
Naphthalene  
Concen: 2.39 ng  
RT: 10.56 min Scan# 1271  
Delta R.T. -0.00 min  
Lab File: BM003474.D  
Acq: 11 Dec 2015 04:10

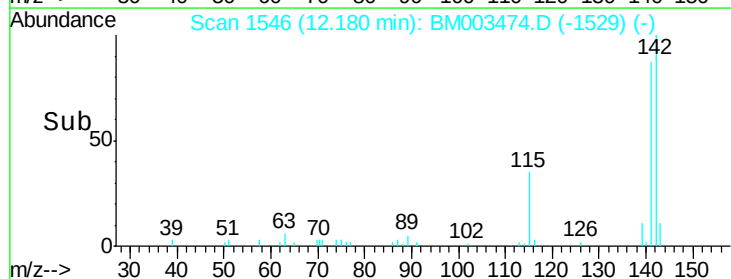
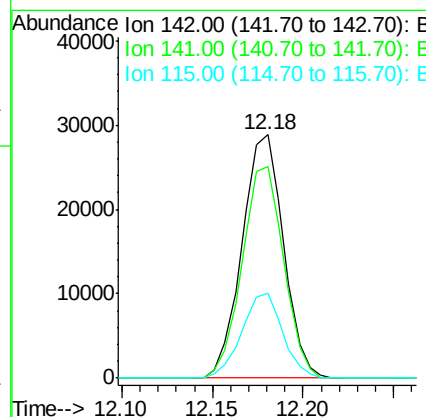
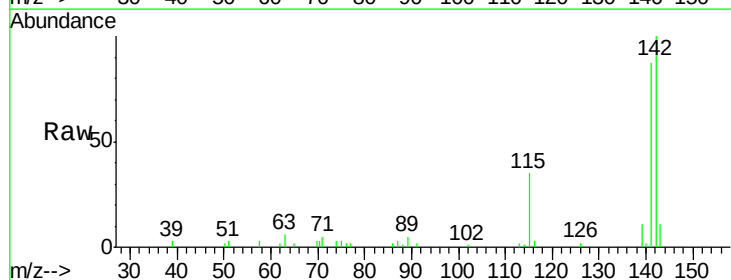
Instrument :  
BNA\_M  
ClientSampleId :  
SB3(2-4)

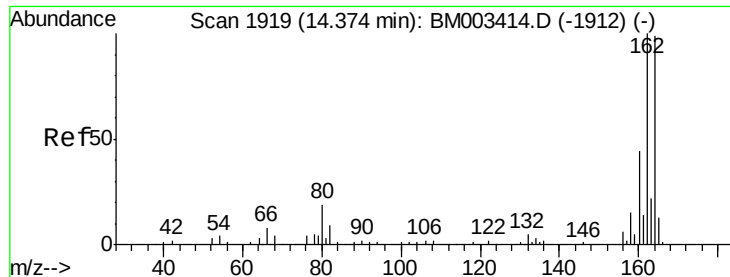
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 11.0  | 8.9   | 13.3  |
| 127     | 12.4  | 10.4  | 15.6  |



#37  
2-Methylnaphthalene  
Concen: 3.89 ng  
RT: 12.18 min Scan# 1546  
Delta R.T. -0.00 min  
Lab File: BM003474.D  
Acq: 11 Dec 2015 04:10

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 86.8  | 71.9  | 107.9 |
| 115     | 34.9  | 25.4  | 38.0  |

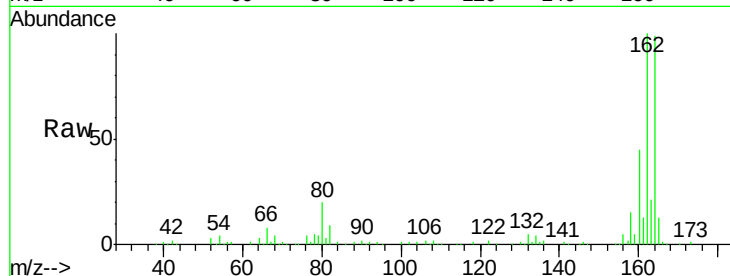




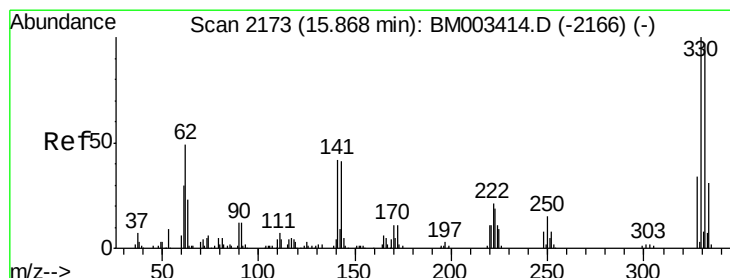
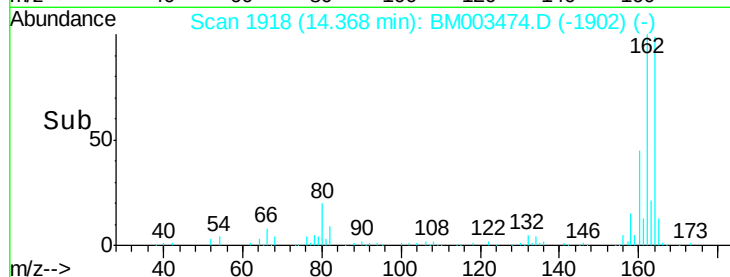
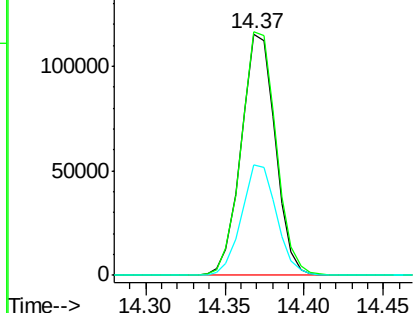
#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 14.37 min Scan# 1918  
 Delta R.T. -0.01 min  
 Lab File: BM003474.D  
 Acq: 11 Dec 2015 04:10

Instrument :  
 BNA\_M  
 ClientSampleId :  
 SB3(2-4)

Tgt Ion:164 Resp: 172193  
 Ion Ratio Lower Upper  
 164 100  
 162 100.9 82.4 123.6  
 160 45.6 35.8 53.6

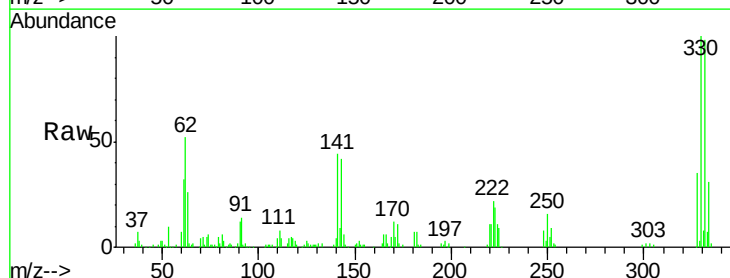


Abundance Ion 164.00 (163.70 to 164.70): E  
 Ion 162.00 (161.70 to 162.70): E  
 Ion 160.00 (159.70 to 160.70): E

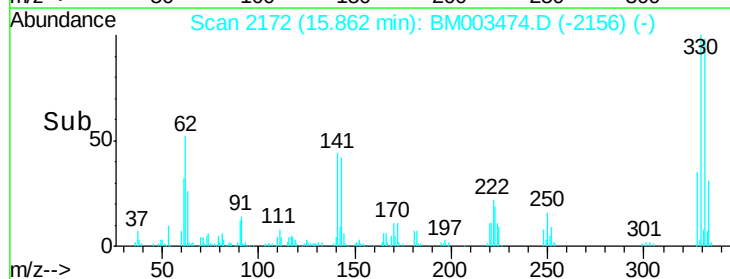
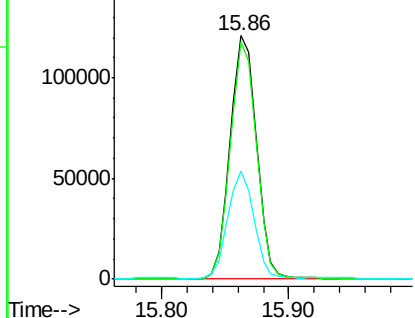


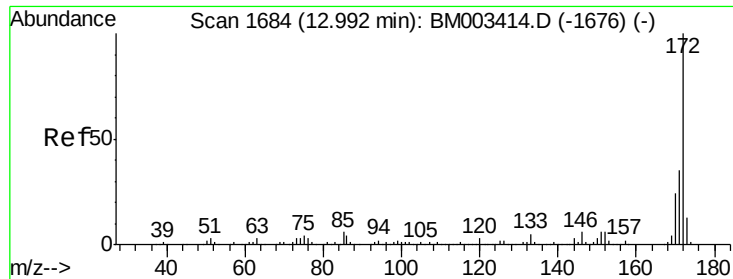
#41  
 2,4,6-Tribromophenol  
 Concen: 101.85 ng  
 RT: 15.86 min Scan# 2172  
 Delta R.T. -0.01 min  
 Lab File: BM003474.D  
 Acq: 11 Dec 2015 04:10

Tgt Ion:330 Resp: 175149  
 Ion Ratio Lower Upper  
 330 100  
 332 96.2 0.0 0.0#  
 141 43.4 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

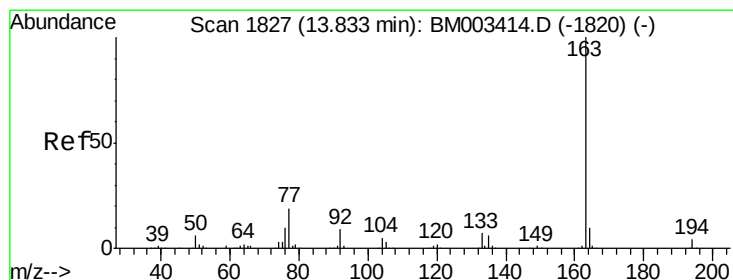
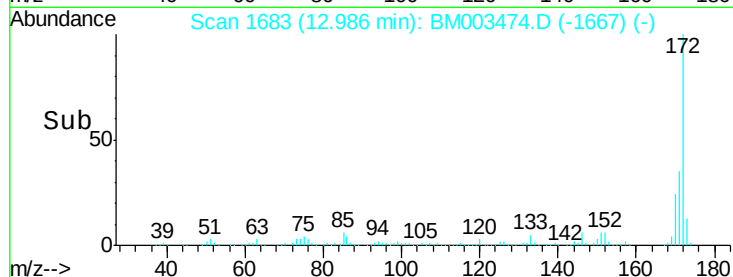
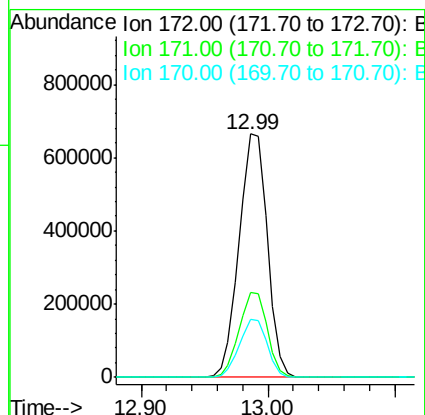
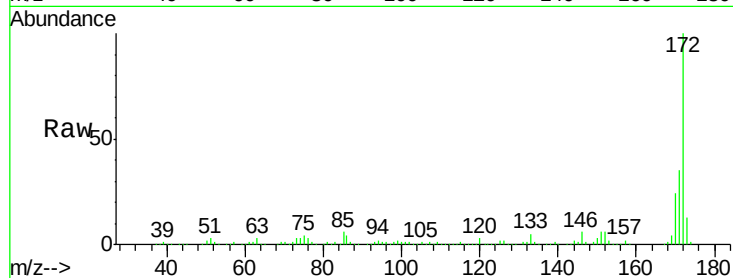




#44  
2-Fluorobiphenyl  
Concen: 81.17 ng  
RT: 12.99 min Scan# 1683  
Delta R.T. -0.01 min  
Lab File: BM003474.D  
Acq: 11 Dec 2015 04:10

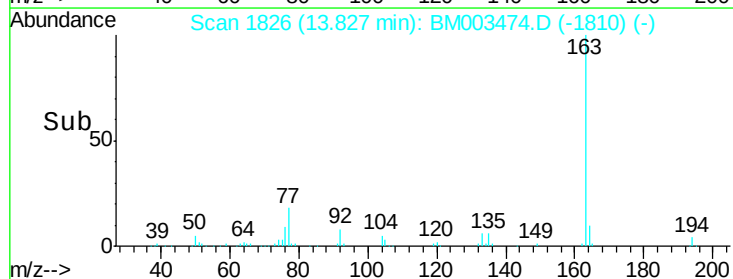
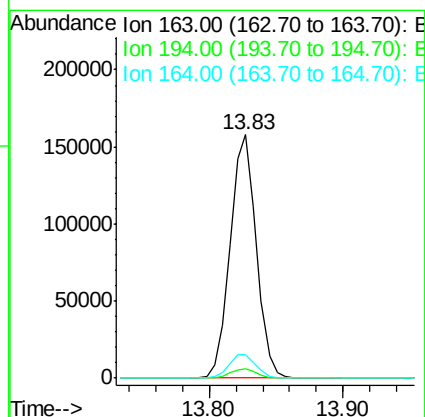
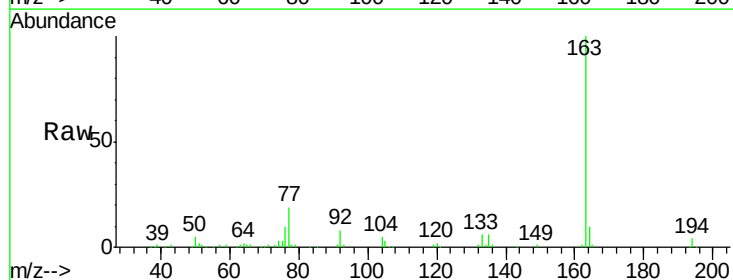
Instrument :  
BNA\_M  
ClientSampleId :  
SB3(2-4)

Tgt Ion:172 Resp: 1025878  
Ion Ratio Lower Upper  
172 100  
171 34.8 28.5 42.7  
170 23.8 18.8 28.2

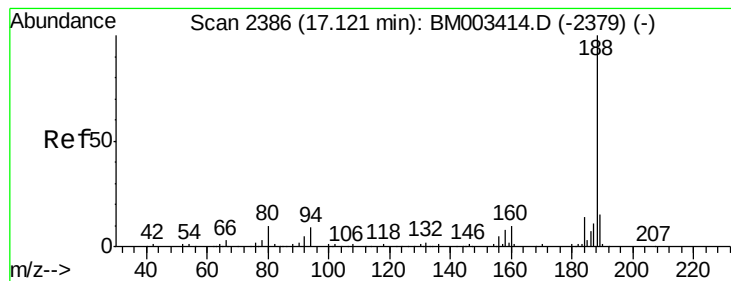


#49  
Dimethylphthalate  
Concen: 15.27 ng  
RT: 13.83 min Scan# 1826  
Delta R.T. -0.01 min  
Lab File: BM003474.D  
Acq: 11 Dec 2015 04:10

Tgt Ion:163 Resp: 216735  
Ion Ratio Lower Upper  
163 100  
194 3.8 2.7 4.1  
164 9.8 8.2 12.2







#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 17.12 min Scan# 2386

Delta R.T. -0.00 min

Lab File: BM003474.D

Acq: 11 Dec 2015 04:10

Instrument :

BNA\_M

ClientSampleId :

SB3(2-4)

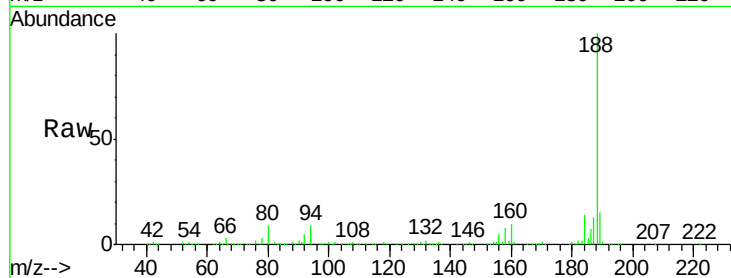
Tgt Ion:188 Resp: 335589

Ion Ratio Lower Upper

188 100

94 9.0 8.7 13.1

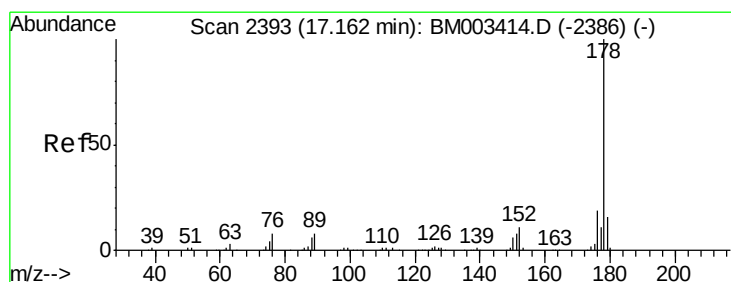
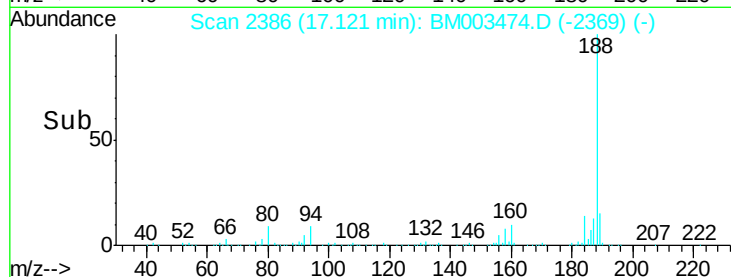
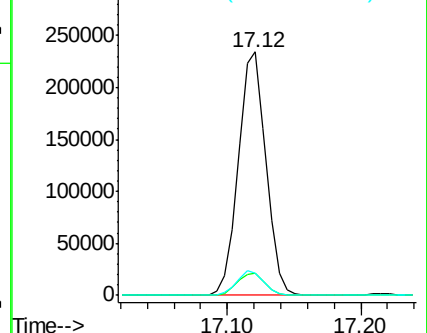
80 9.2 9.3 13.9#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BM

Ion 80.00 (79.70 to 80.70): BM



#70

Phenanthrene

Concen: 3.01 ng

RT: 17.16 min Scan# 2393

Delta R.T. -0.00 min

Lab File: BM003474.D

Acq: 11 Dec 2015 04:10

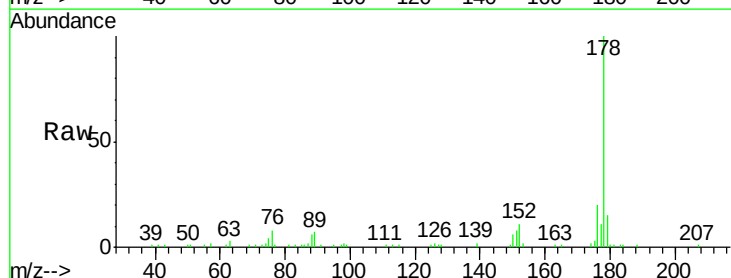
Tgt Ion:178 Resp: 56653

Ion Ratio Lower Upper

178 100

176 20.0 15.2 22.8

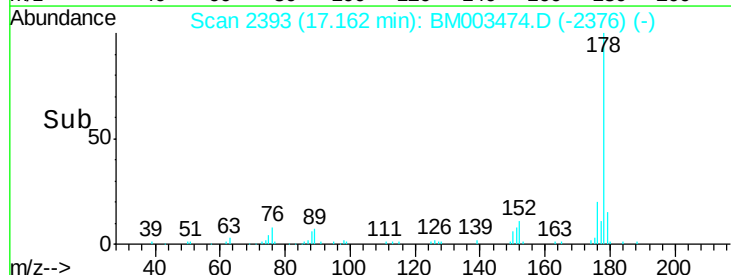
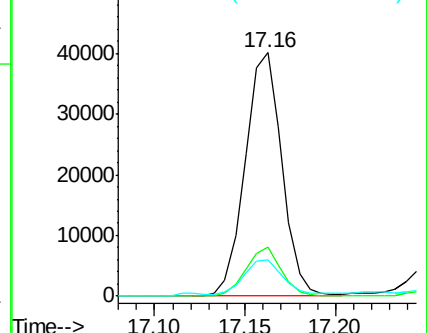
179 15.1 12.1 18.1

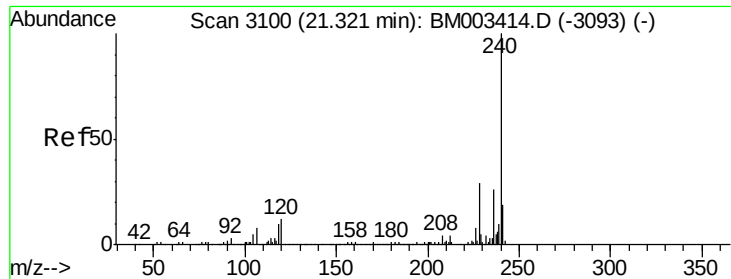


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 21.31 min Scan# 3098

Delta R.T. -0.01 min

Lab File: BM003474.D

Acq: 11 Dec 2015 04:10

Instrument :

BNA\_M

ClientSampleId :

SB3(2-4)

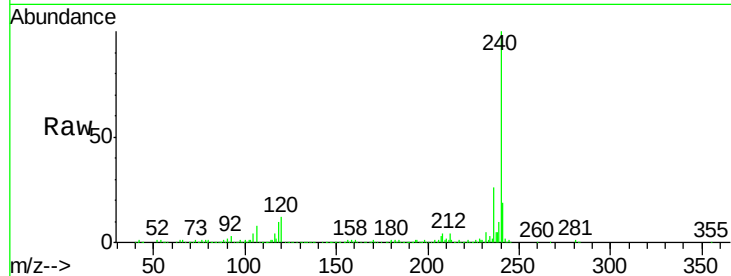
Tgt Ion:240 Resp: 326237

Ion Ratio Lower Upper

240 100

120 11.7 8.2 12.2

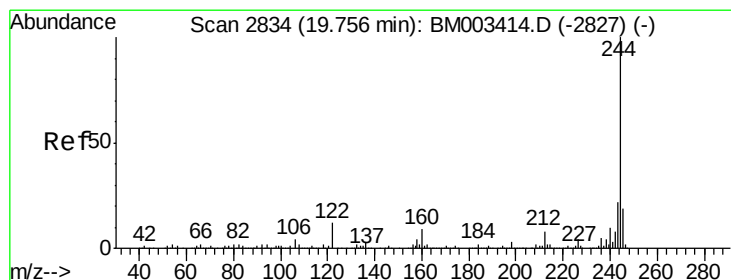
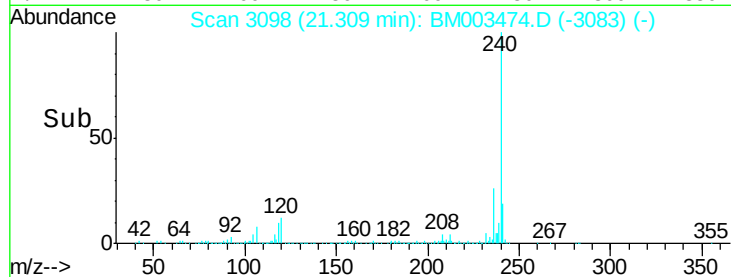
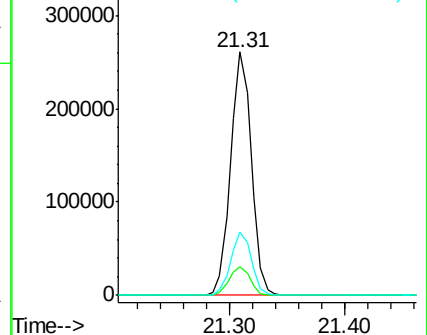
236 25.9 20.0 30.0



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: 61.15 ng

RT: 19.75 min Scan# 2833

Delta R.T. -0.01 min

Lab File: BM003474.D

Acq: 11 Dec 2015 04:10

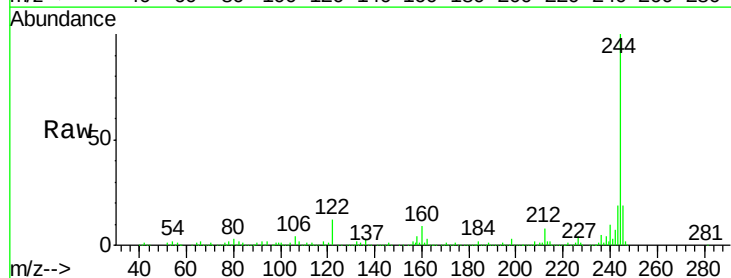
Tgt Ion:244 Resp: 845969

Ion Ratio Lower Upper

244 100

212 7.8 4.9 7.3#

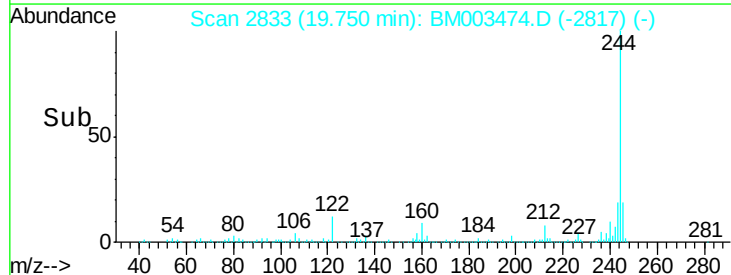
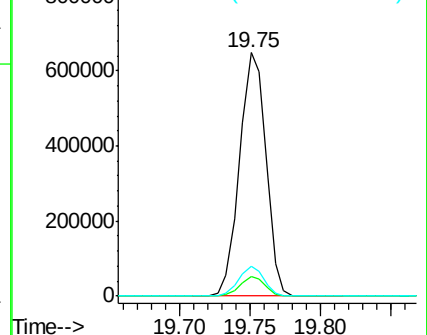
122 12.1 6.2 9.4#

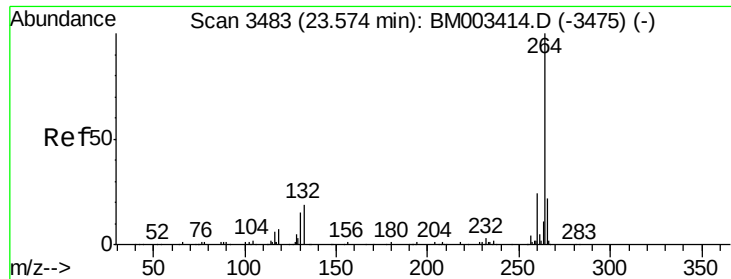


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 23.56 min Scan# 3481  
Delta R.T. -0.01 min  
Lab File: BM003474.D  
Acq: 11 Dec 2015 04:10

Instrument :  
BNA\_M  
ClientSampleId :  
SB3(2-4)

Tgt Ion: 264 Resp: 325661  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 23.7  | 18.6  | 27.8  |
| 265 | 21.7  | 17.3  | 25.9  |

