

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG051415\  
 Data File : BG017161.D  
 Acq On : 15 May 2015 4:57  
 Operator : TP/IZ  
 Sample : G2179-02  
 Misc :  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 RAV-GTMW-5

Quant Time: May 15 06:46:44 2015  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG051315.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 13 16:12:13 2015  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.71  | 152  | 53261    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 10.50 | 136  | 240909   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10        | 14.36 | 164  | 164113   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10        | 17.11 | 188  | 374708   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12            | 21.30 | 240  | 361057   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12            | 23.56 | 264  | 351865   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.30  | 112  | 215398   | 71.75  | ng    | 0.00     |
| 7) Phenol-d6                | 6.91  | 99   | 218602   | 51.89  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 8.87  | 82   | 413653   | 80.16  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 15.86 | 330  | 262424   | 132.28 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 12.98 | 172  | 864801   | 77.32  | ng    | 0.00     |
| 78) Terphenyl-d14           | 19.74 | 244  | 1392060  | 80.35  | ng    | 0.00     |

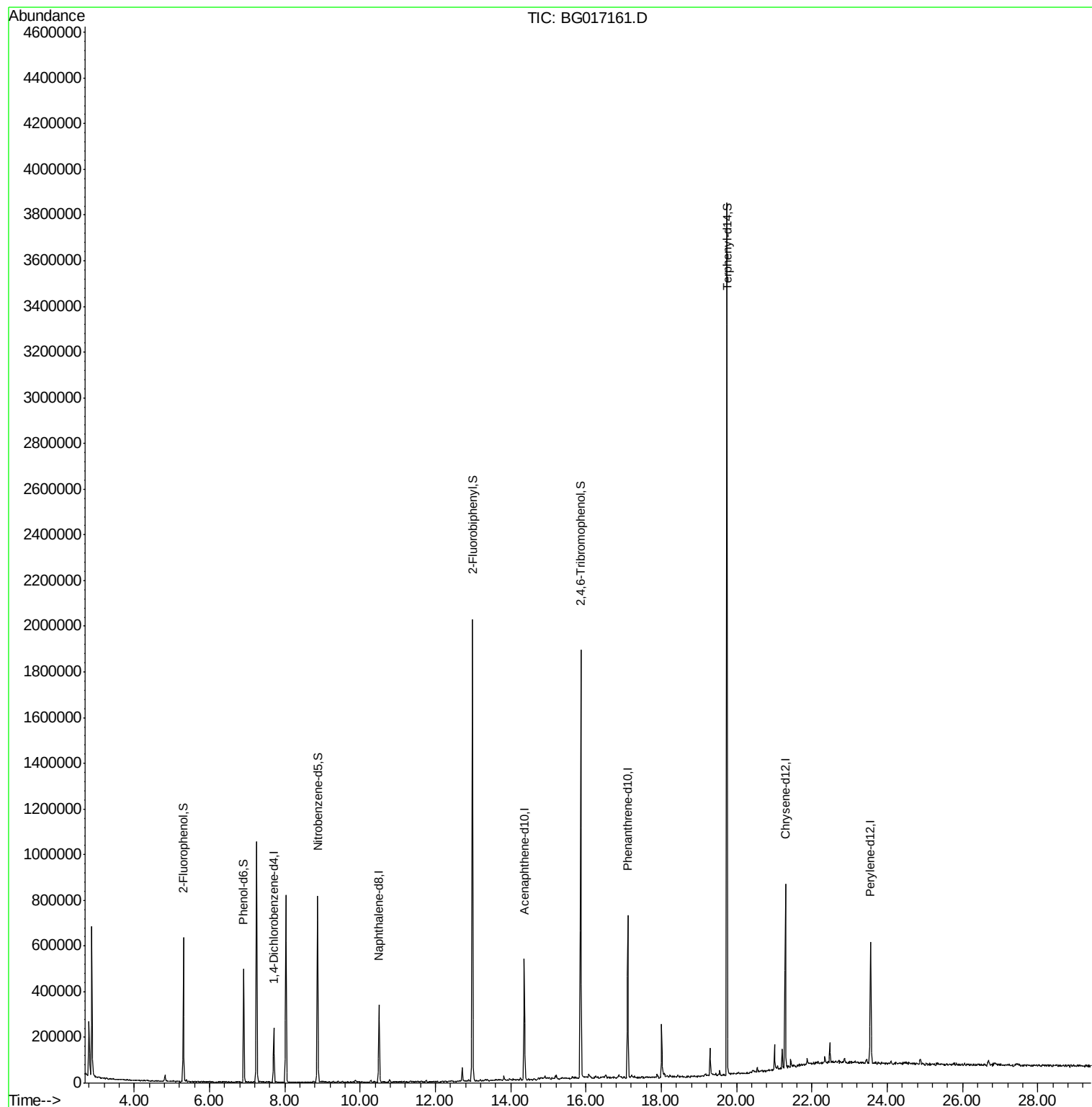
| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

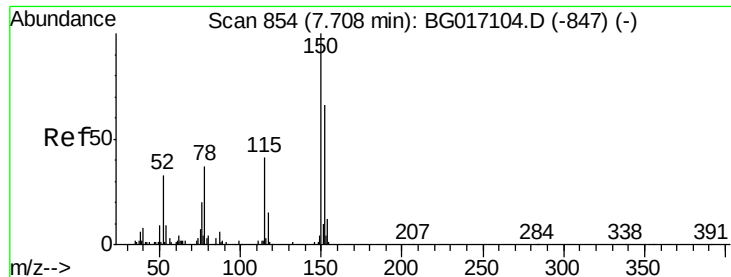
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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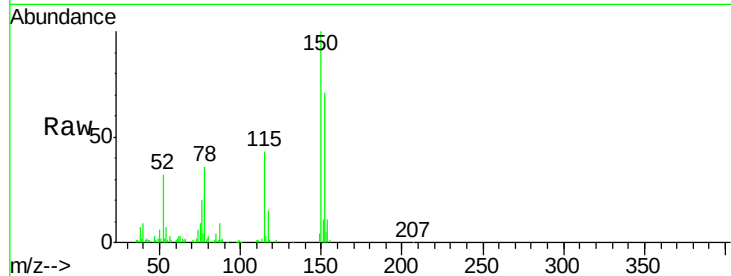


#1

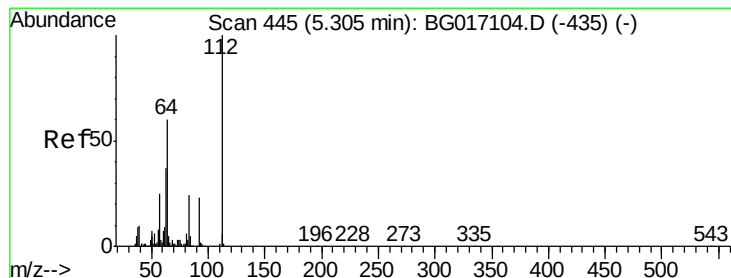
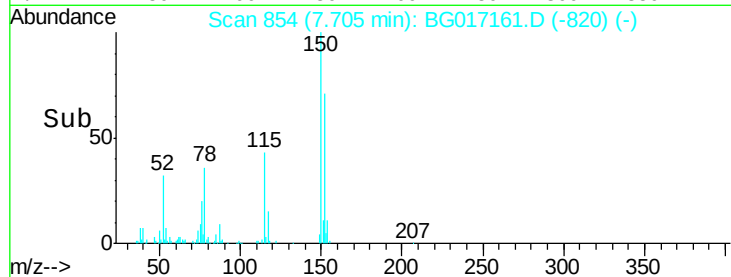
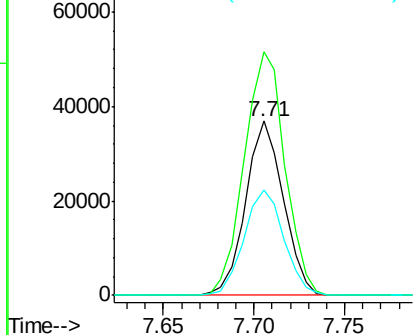
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 7.71 min Scan# 854  
Delta R.T. -0.00 min  
Lab File: BG017161.D  
Acq: 15 May 2015 4:57

Instrument :  
BNA\_G  
ClientSampleId :  
RAV-GTMW-5

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 139.9 | 120.8 | 181.2 |
| 115     | 60.5  | 49.4  | 74.2  |



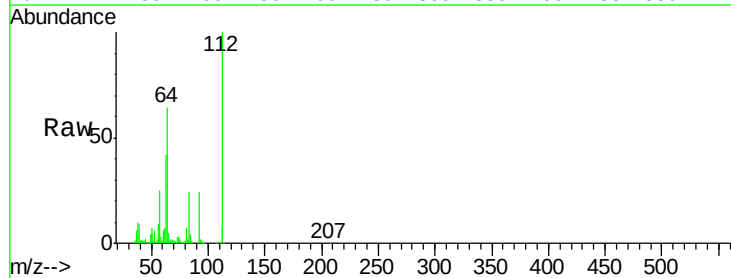
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



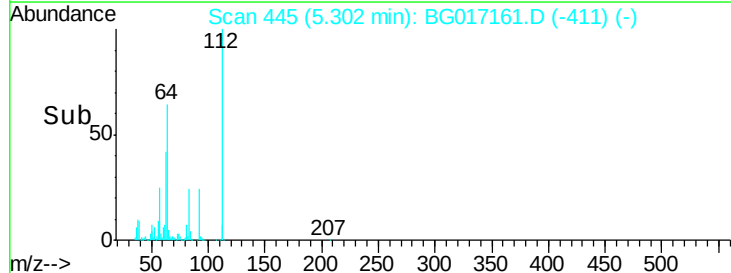
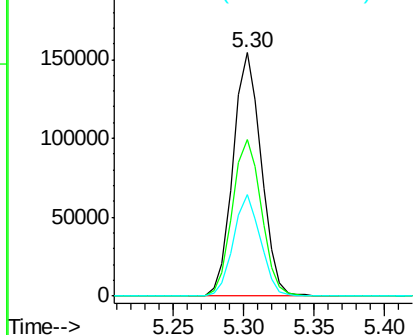
#5

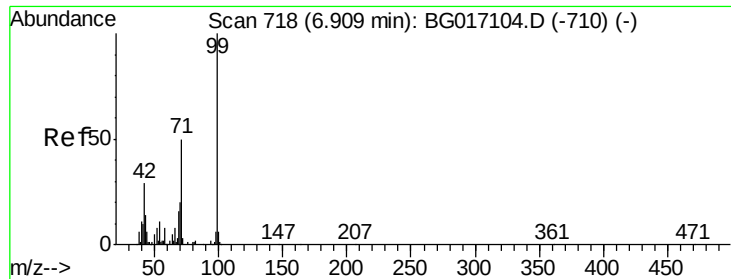
2-Fluorophenol  
Concen: 71.75 ng  
RT: 5.30 min Scan# 445  
Delta R.T. -0.00 min  
Lab File: BG017161.D  
Acq: 15 May 2015 4:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 64.4  | 48.1  | 72.1  |
| 63      | 41.6  | 29.8  | 44.8  |



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





#7

Phenol-d6

Concen: 51.89 ng

RT: 6.91 min Scan# 718

Delta R.T. -0.00 min

Lab File: BG017161.D

Acq: 15 May 2015 4:57

Instrument :

BNA\_G

ClientSampleId :

RAV-GTMW-5

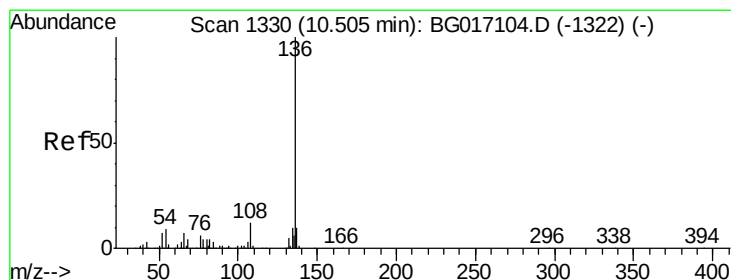
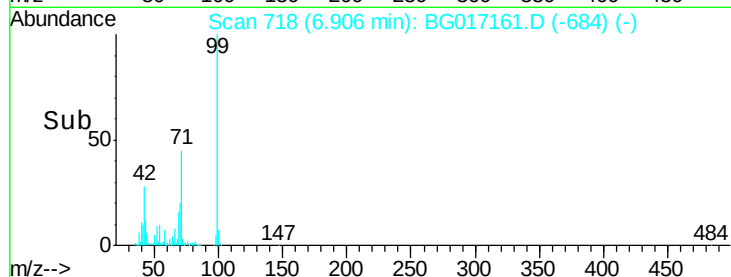
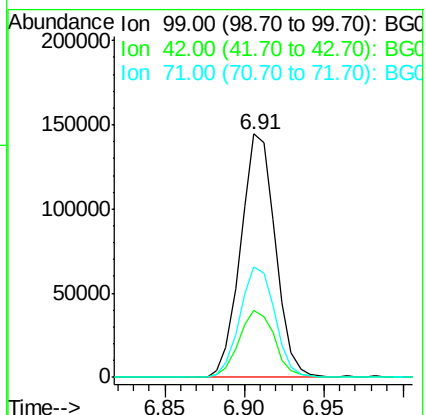
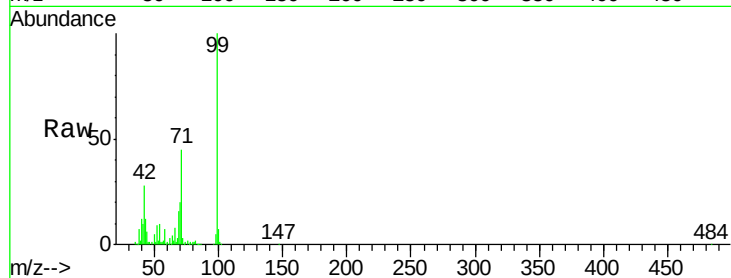
Tgt Ion: 99 Resp: 218602

Ion Ratio Lower Upper

99 100

42 27.6 23.5 35.3

71 45.3 39.8 59.8



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 10.50 min Scan# 1330

Delta R.T. -0.00 min

Lab File: BG017161.D

Acq: 15 May 2015 4:57

Tgt Ion: 136 Resp: 240909

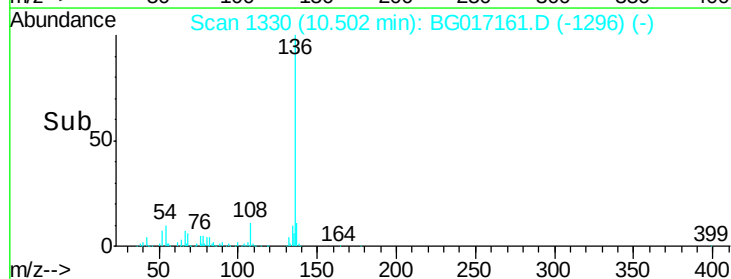
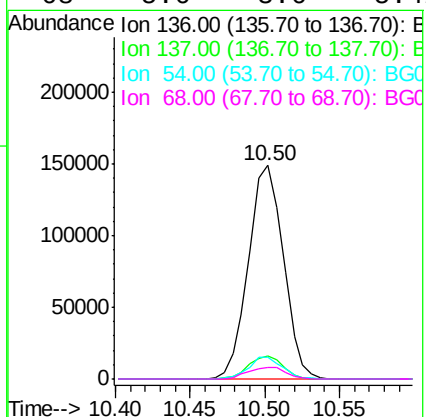
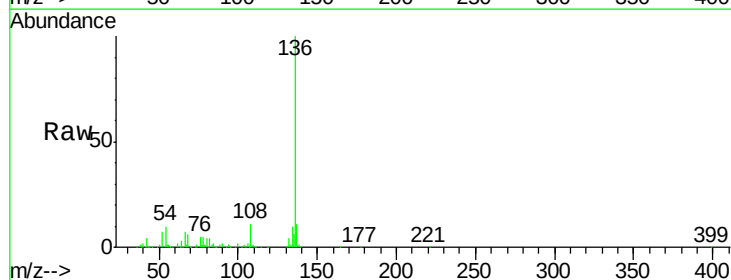
Ion Ratio Lower Upper

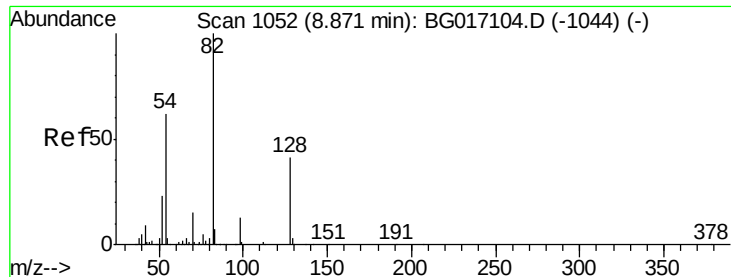
136 100

137 10.7 8.3 12.5

54 10.4 7.4 11.2

68 5.6 3.6 5.4#

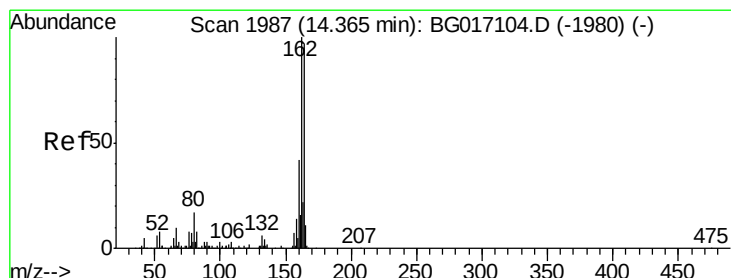
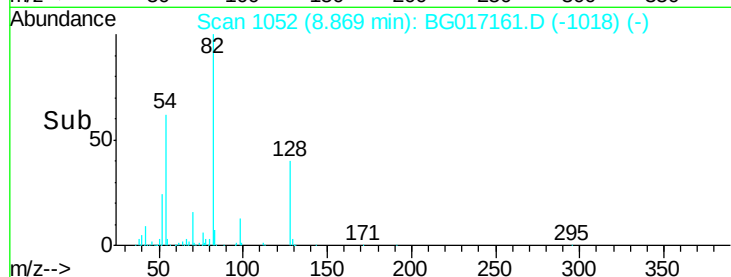
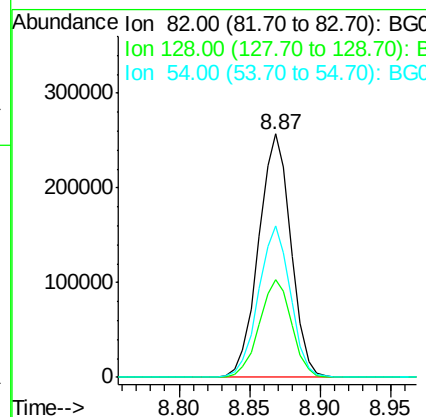
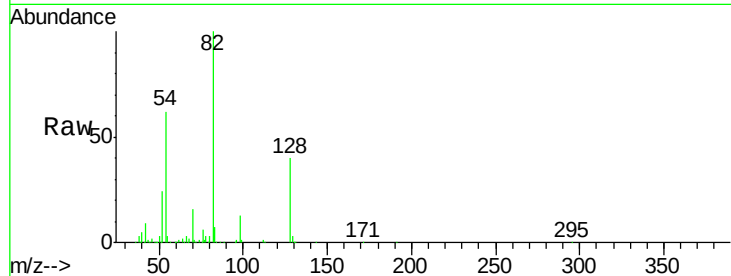




#23  
 Nitrobenzene-d5  
 Concen: 80.16 ng  
 RT: 8.87 min Scan# 1052  
 Delta R.T. -0.00 min  
 Lab File: BG017161.D  
 Acq: 15 May 2015 4:57

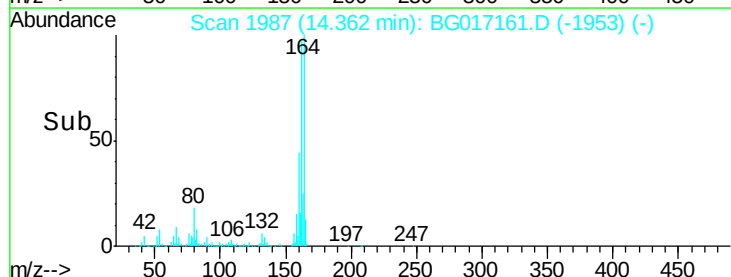
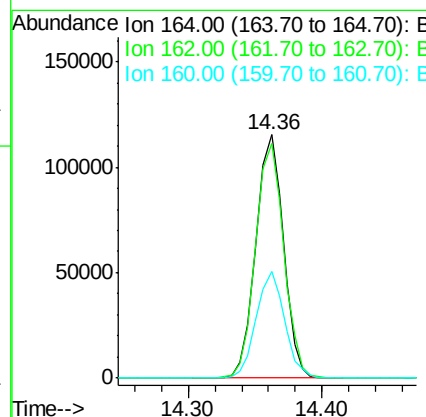
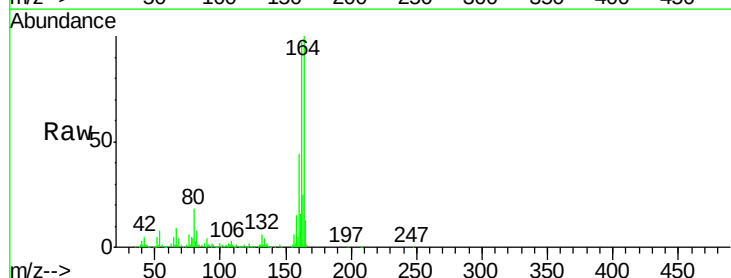
Instrument :  
 BNA\_G  
 ClientSampleId :  
 RAV-GTMW-5

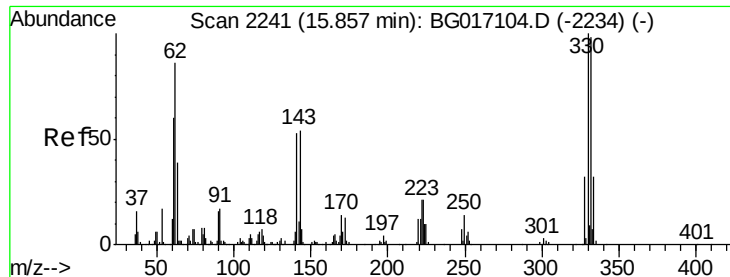
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 40.2  | 32.6  | 49.0  |
| 54      | 62.2  | 49.6  | 74.4  |



#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 14.36 min Scan# 1987  
 Delta R.T. -0.00 min  
 Lab File: BG017161.D  
 Acq: 15 May 2015 4:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 96.6  | 82.1  | 123.1 |
| 160     | 43.6  | 34.8  | 52.2  |

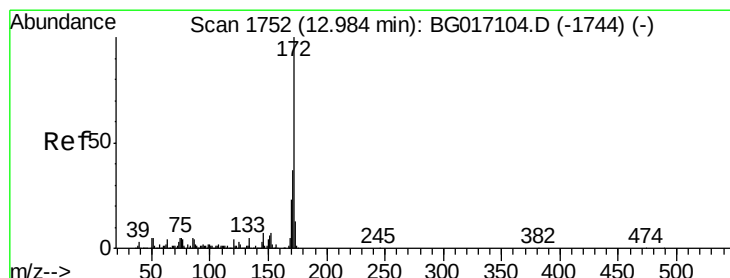
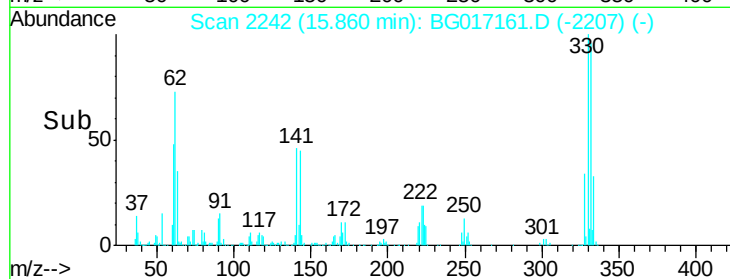
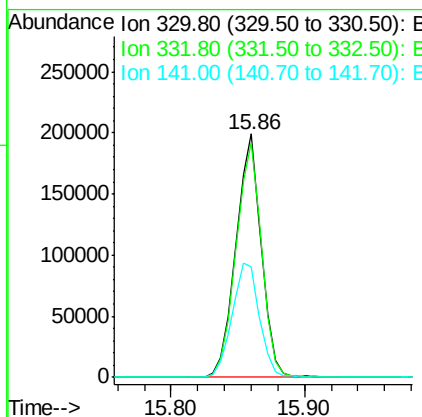
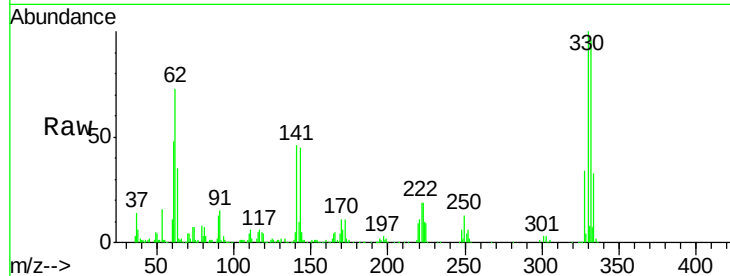




#41  
 2,4,6-Tribromophenol  
 Concen: 132.28 ng  
 RT: 15.86 min Scan# 2242  
 Delta R.T. 0.00 min  
 Lab File: BG017161.D  
 Acq: 15 May 2015 4:57

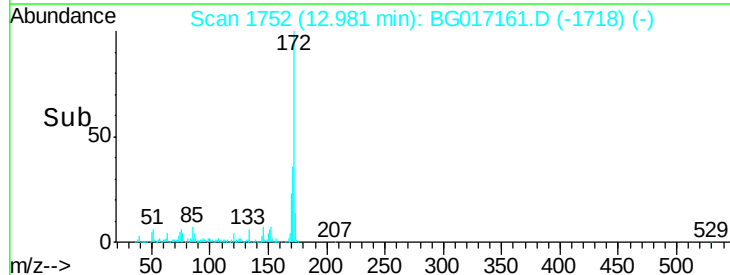
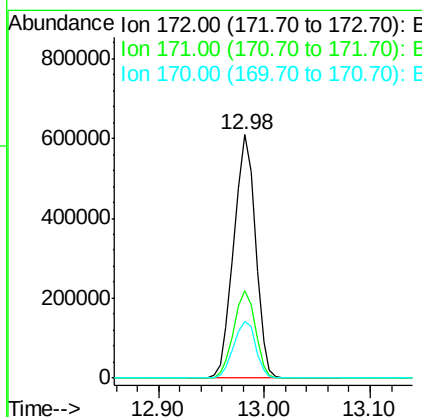
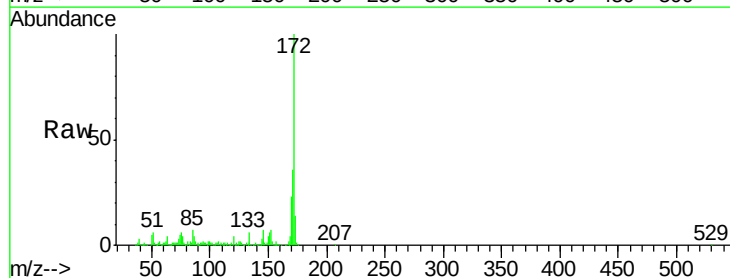
Instrument :  
 BNA\_G  
 ClientSampleId :  
 RAV-GTMW-5

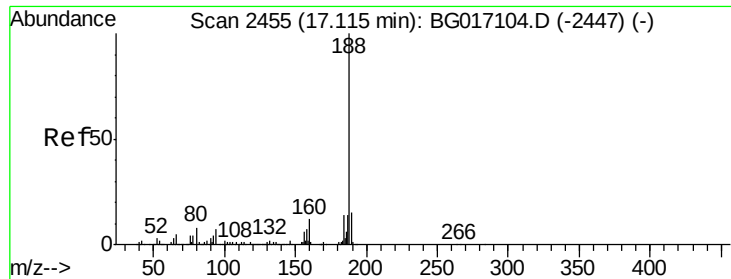
Tgt Ion:330 Resp: 262424  
 Ion Ratio Lower Upper  
 330 100  
 332 97.5 76.9 115.3  
 141 51.3 42.2 63.2



#44  
 2-Fluorobiphenyl  
 Concen: 77.32 ng  
 RT: 12.98 min Scan# 1752  
 Delta R.T. -0.00 min  
 Lab File: BG017161.D  
 Acq: 15 May 2015 4:57

Tgt Ion:172 Resp: 864801  
 Ion Ratio Lower Upper  
 172 100  
 171 35.8 29.7 44.5  
 170 23.3 18.4 27.6





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 17.11 min Scan# 2455

Delta R.T. -0.00 min

Lab File: BG017161.D

Acq: 15 May 2015 4:57

Instrument :

BNA\_G

ClientSampleId :

RAV-GTMW-5

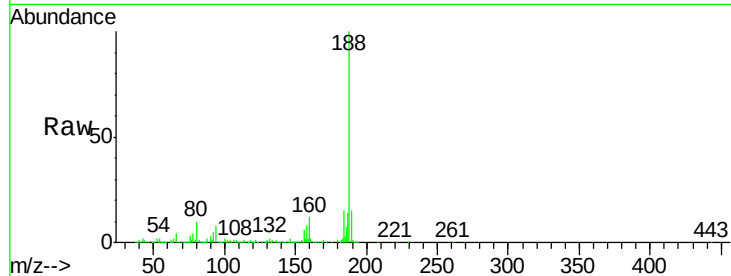
Tgt Ion:188 Resp: 374708

Ion Ratio Lower Upper

188 100

94 8.0 5.8 8.6

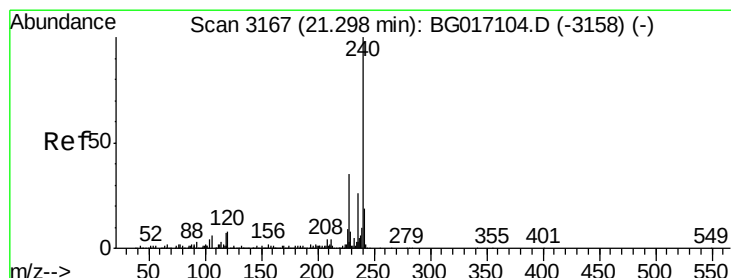
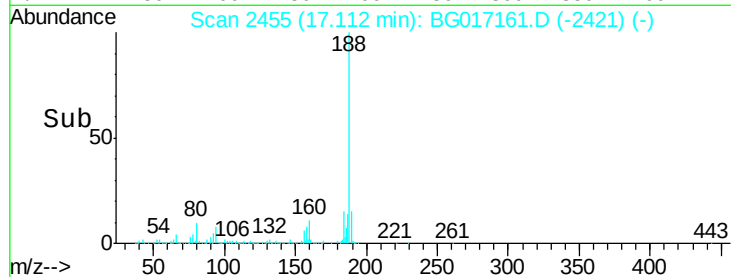
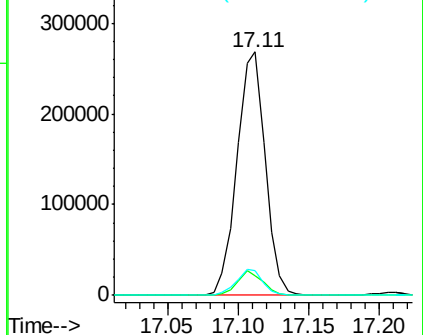
80 10.0 6.5 9.7#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BGC

Ion 80.00 (79.70 to 80.70): BGC



#75

Chrysene-d12

Concen: 20.00 ng

RT: 21.30 min Scan# 3167

Delta R.T. -0.00 min

Lab File: BG017161.D

Acq: 15 May 2015 4:57

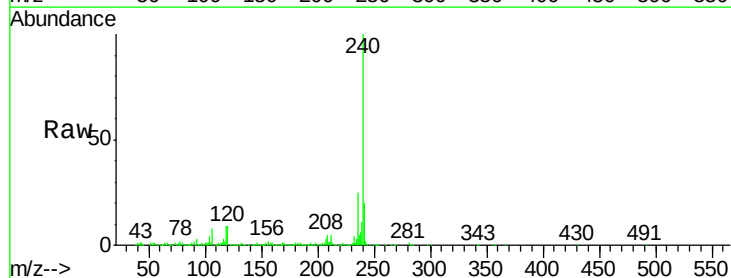
Tgt Ion:240 Resp: 361057

Ion Ratio Lower Upper

240 100

120 9.0 6.0 9.0

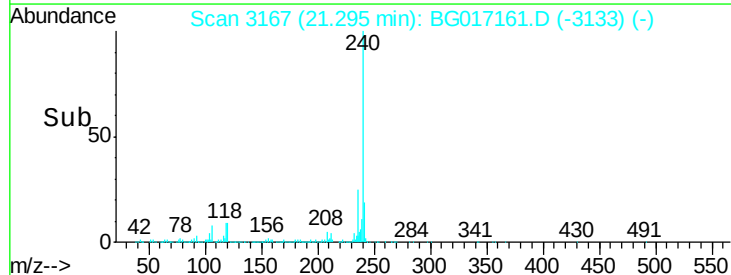
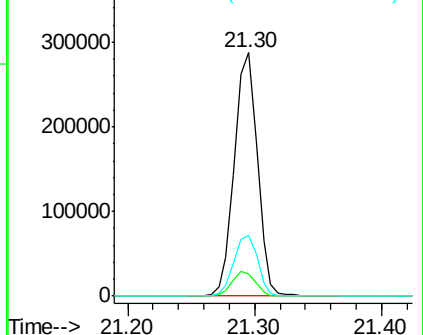
236 24.7 20.5 30.7

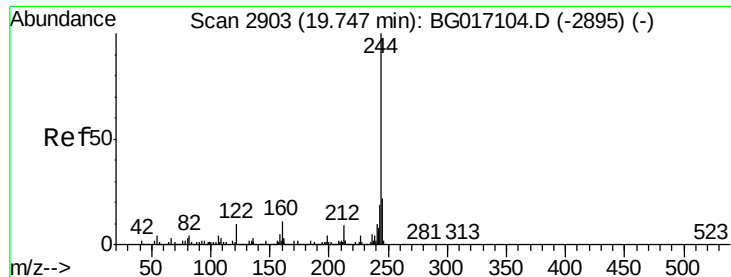


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Terphenyl-d14

Concen: 80.35 ng

RT: 19.74 min Scan# 2903

Delta R.T. -0.00 min

Lab File: BG017161.D

Acq: 15 May 2015 4:57

Instrument :

BNA\_G

ClientSampleId :

RAV-GTMW-5

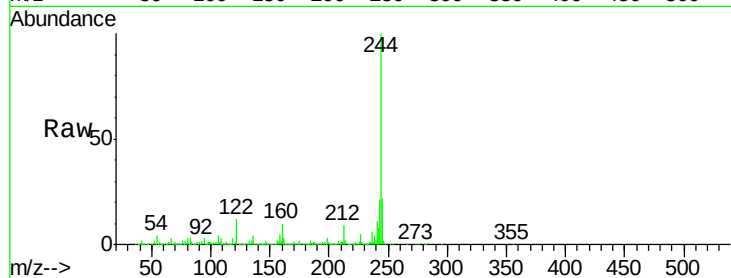
Tgt Ion:244 Resp: 1392060

Ion Ratio Lower Upper

244 100

212 9.2 7.0 10.4

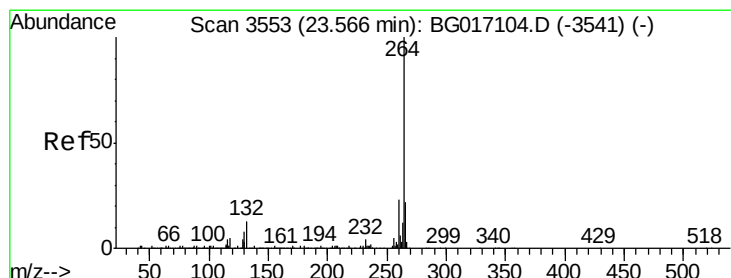
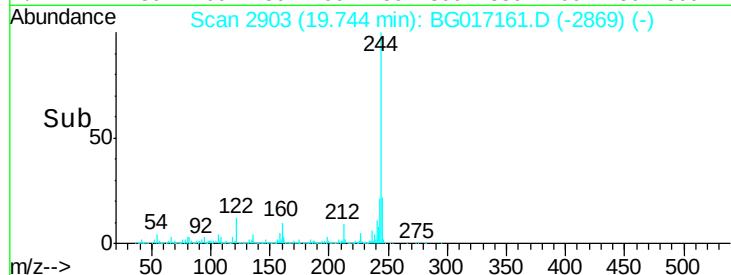
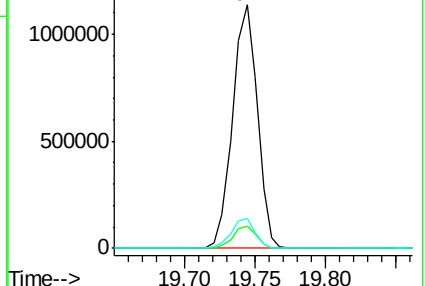
122 12.2 8.4 12.6



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# 3552

Delta R.T. -0.01 min

Lab File: BG017161.D

Acq: 15 May 2015 4:57

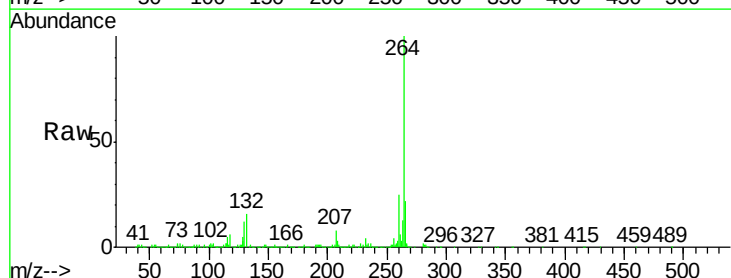
Tgt Ion:264 Resp: 351865

Ion Ratio Lower Upper

264 100

260 25.1 18.0 27.0

265 21.9 17.4 26.0



Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

