

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA G\DATA\BG120617\  
 Data File : BG031372.D  
 Acq On : 6 Dec 2017 15:50  
 Operator : SJ/JU  
 Sample : PB104763BL  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Dec 06 17:54:01 2017  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG111017.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Nov 10 15:38:25 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.13  | 152  | 59311    | 20.00  | ng    | -0.02    |
| 21) Naphthalene-d8          | 10.94 | 136  | 252051   | 20.00  | ng    | -0.02    |
| 38) Acenaphthene-d10        | 14.75 | 164  | 165482   | 20.00  | ng    | -0.02    |
| 63) Phenanthrene-d10        | 17.50 | 188  | 454557   | 20.00  | ng    | -0.02    |
| 75) Chrysene-d12            | 21.77 | 240  | 552081   | 20.00  | ng    | -0.02    |
| 86) Perylene-d12            | 25.06 | 264  | 523527   | 20.00  | ng    | -0.03    |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.69  | 112  | 486768   | 140.73 | ng    | -0.02    |
| 7) Phenol-d6                | 7.30  | 99   | 620382   | 133.13 | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 9.30  | 82   | 373301   | 87.76  | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol    | 16.24 | 330  | 271075   | 101.26 | ng    | -0.02    |
| 44) 2-Fluorobiphenyl        | 13.38 | 172  | 1055334  | 91.64  | ng    | -0.02    |
| 78) Terphenyl-d14           | 20.08 | 244  | 2078963  | 83.15  | ng    | -0.02    |

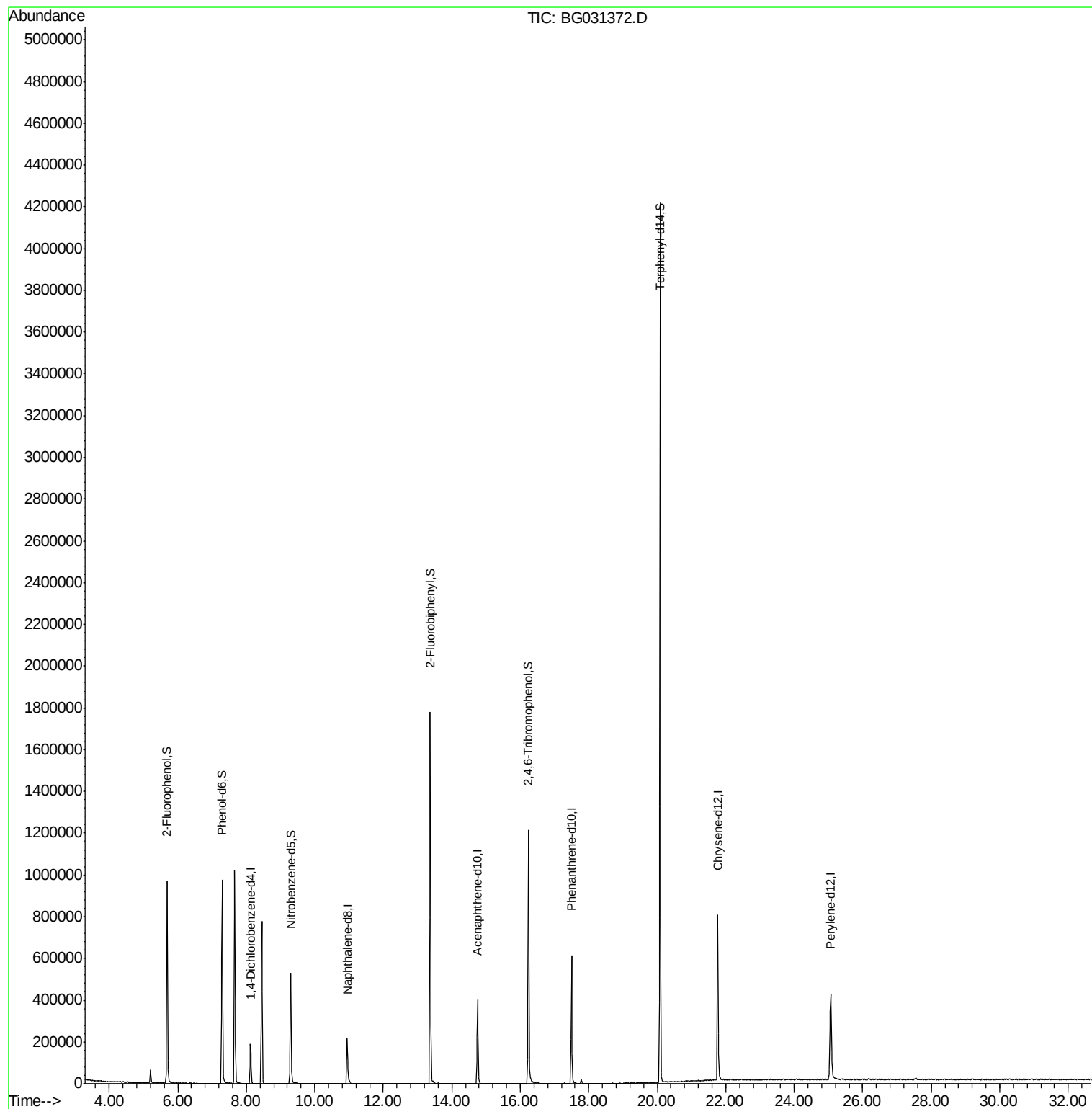
Target Compounds Qvalue

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

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Instrument :  
BNA\_G  
ClientSampleId :

Quant Time: Dec 06 17:54:01 2017  
Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG111017.M  
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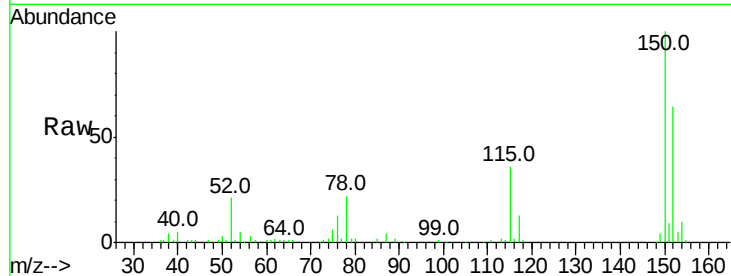


#1

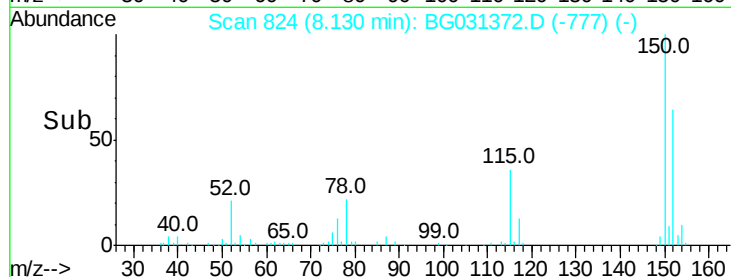
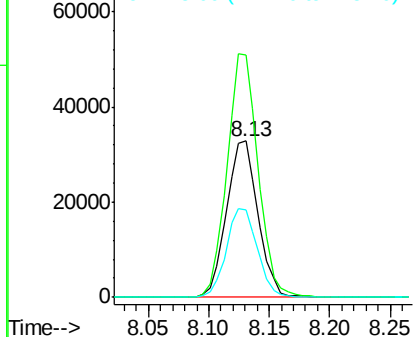
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.13 min Scan# 824  
Delta R.T. -0.02 min  
Lab File: BG031372.D  
Acq: 6 Dec 2017 15:50

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:152 Resp: 59311  
Ion Ratio Lower Upper  
152 100  
150 155.3 126.6 189.8  
115 56.0 53.0 79.4



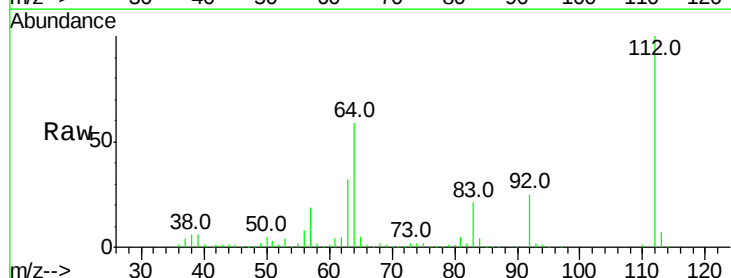
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



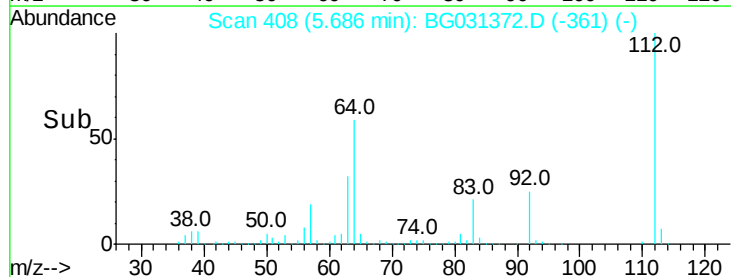
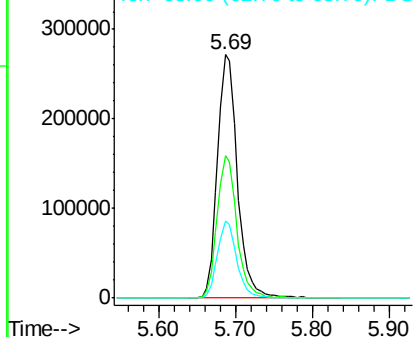
#5

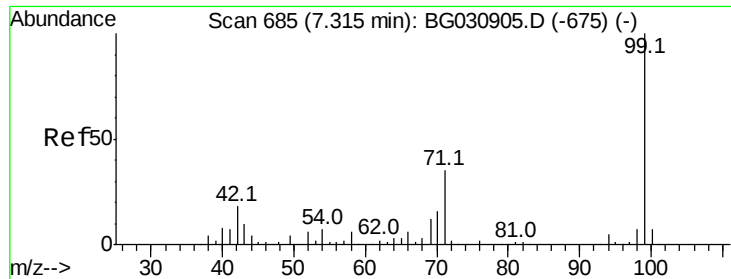
2-Fluorophenol  
Concen: 140.731 ng  
RT: 5.69 min Scan# 408  
Delta R.T. -0.02 min  
Lab File: BG031372.D  
Acq: 6 Dec 2017 15:50

Tgt Ion:112 Resp: 486768  
Ion Ratio Lower Upper  
112 100  
64 58.8 56.3 84.5  
63 31.6 30.1 45.1



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BG0  
Ion 63.00 (62.70 to 63.70): BG0





#7

Phenol-d6

Concen: 133.134 ng

RT: 7.30 min Scan# 682

Delta R.T. -0.01 min

Lab File: BG031372.D

Acq: 6 Dec 2017 15:50

Instrument :

BNA\_G

ClientSampleId :

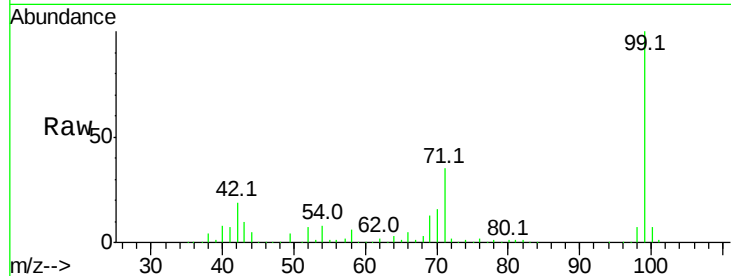
Tot Ion: 99 Resp: 620382

Ion Ratio Lower Upper

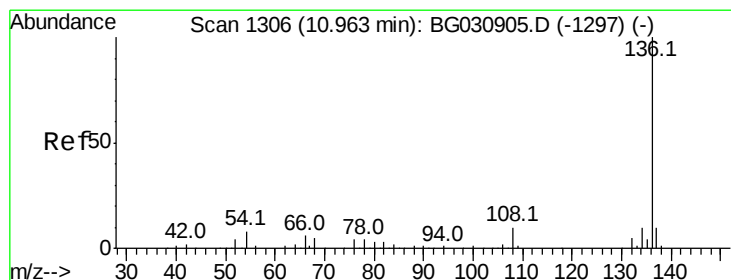
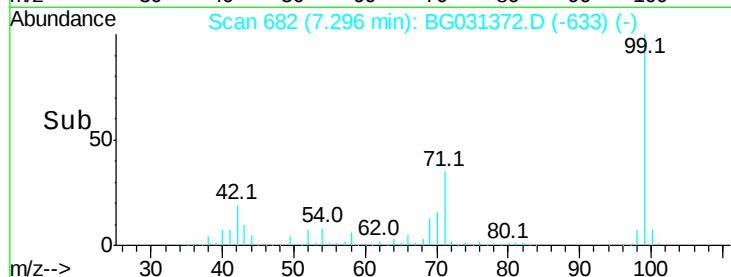
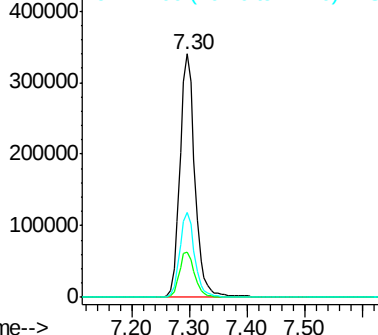
99 100

42 18.5 14.1 21.1

71 34.6 26.1 39.1



Abundance Ion 99.00 (98.70 to 99.70): BGC  
Ion 42.00 (41.70 to 42.70): BGC  
Ion 71.00 (70.70 to 71.70): BGC



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.94 min Scan# 1303

Delta R.T. -0.02 min

Lab File: BG031372.D

Acq: 6 Dec 2017 15:50

Tgt Ion: 136 Resp: 252051

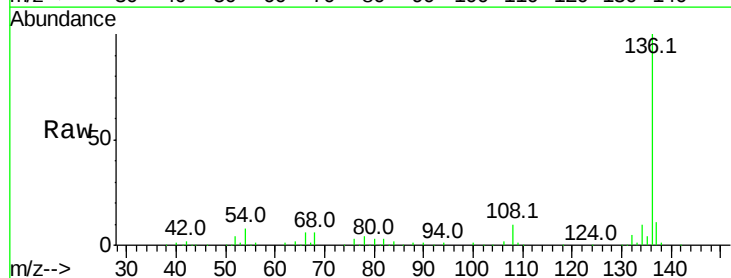
Ion Ratio Lower Upper

136 100

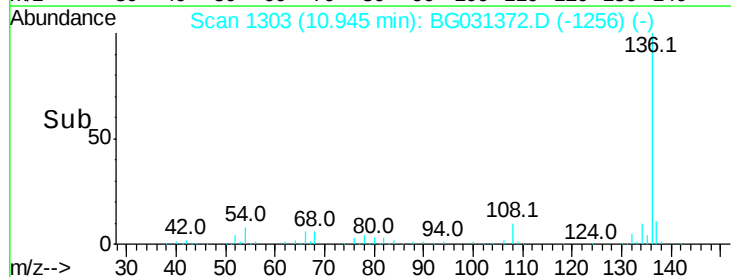
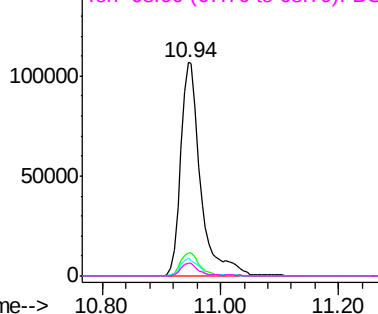
137 11.0 9.2 13.8

54 8.4 10.3 15.5#

68 5.8 4.5 6.7



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

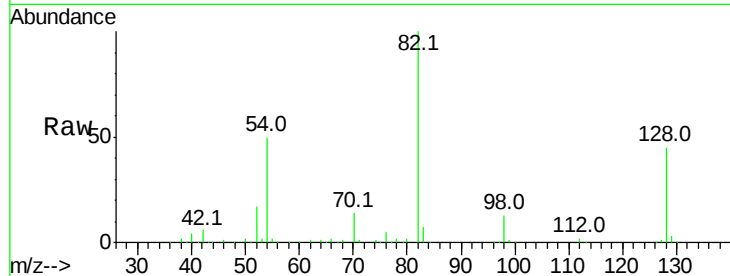




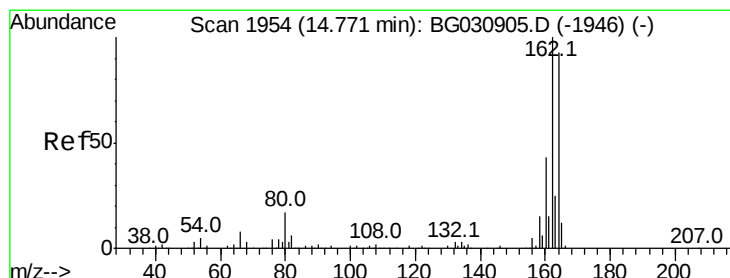
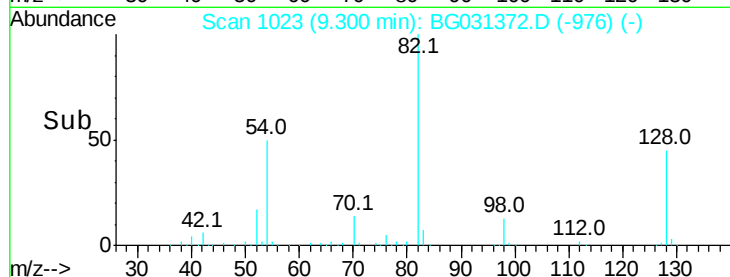
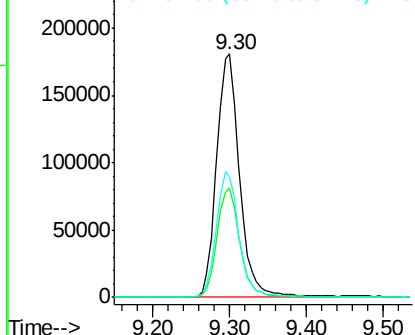
#23  
 Nitrobenzene-d5  
 Concen: 87.762 ng  
 RT: 9.30 min Scan# 1023  
 Delta R.T. -0.02 min  
 Lab File: BG031372.D  
 Acq: 6 Dec 2017 15:50

Instrument :  
 BNA\_G  
 ClientSampled :

Tot Ion: 82 Resp: 373301  
 Ion Ratio Lower Upper  
 82 100  
 128 44.7 29.7 44.5#  
 54 49.5 43.1 64.7

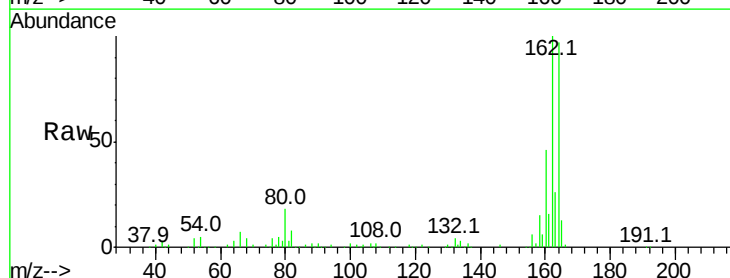


Abundance Ion 82.00 (81.70 to 82.70): BGC  
 Ion 128.00 (127.70 to 128.70): BGC  
 Ion 54.00 (53.70 to 54.70): BGC

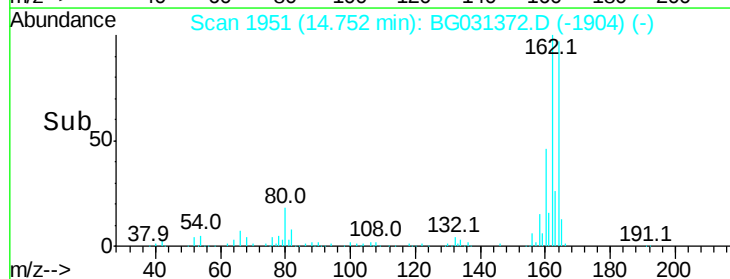
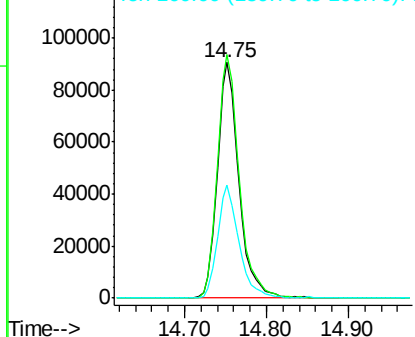


#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 14.75 min Scan# 1951  
 Delta R.T. -0.02 min  
 Lab File: BG031372.D  
 Acq: 6 Dec 2017 15:50

Tgt Ion: 164 Resp: 165482  
 Ion Ratio Lower Upper  
 164 100  
 162 103.2 78.8 118.2  
 160 47.7 35.4 53.0



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

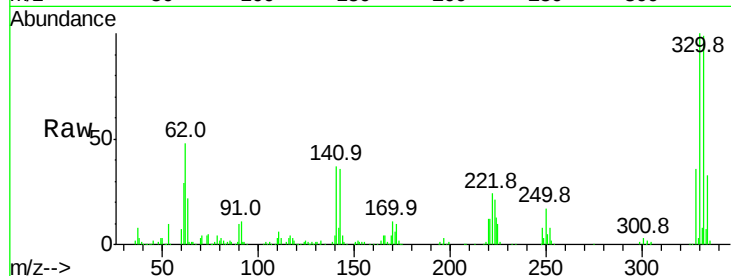




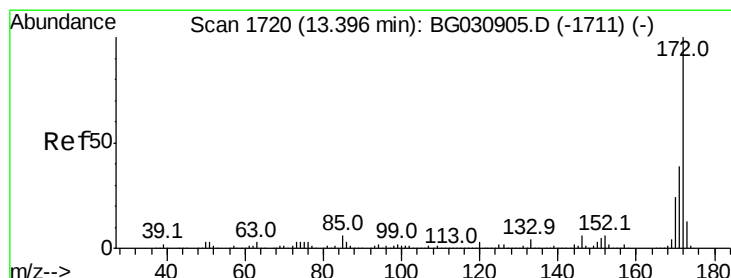
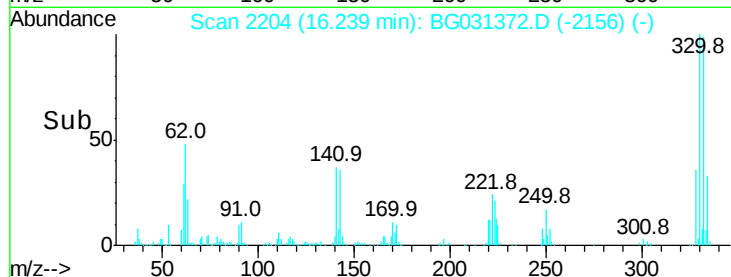
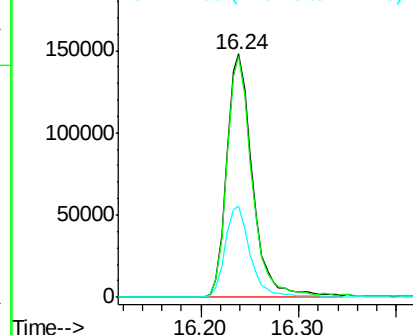
#41  
 2,4,6-Tribromophenol  
 Concen: 101.262 ng  
 RT: 16.24 min Scan# 2204  
 Delta R.T. -0.02 min  
 Lab File: BG031372.D  
 Acq: 6 Dec 2017 15:50

Instrument :  
 BNA\_G  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 97.1  | 77.0  | 115.6 |
| 141     | 37.1  | 25.2  | 37.8  |

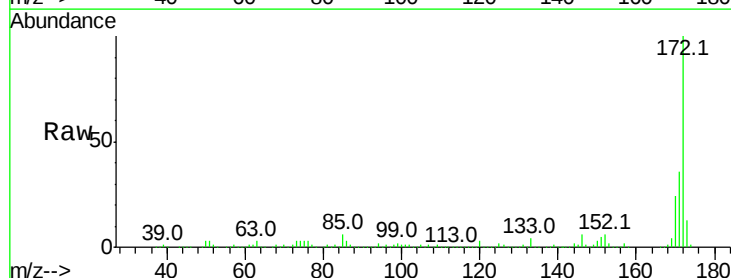


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

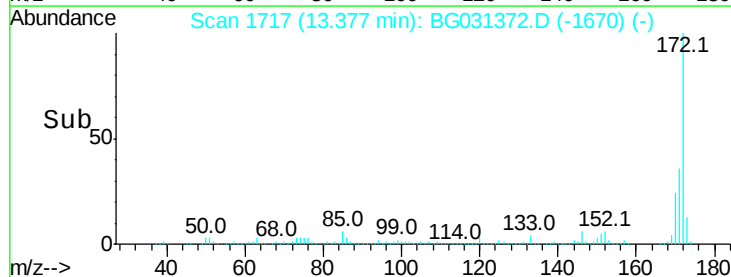
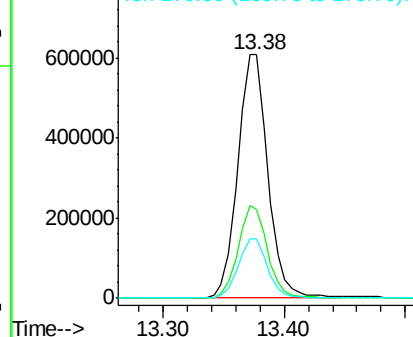


#44  
 2-Fluorobiphenyl  
 Concen: 91.635 ng  
 RT: 13.38 min Scan# 1717  
 Delta R.T. -0.02 min  
 Lab File: BG031372.D  
 Acq: 6 Dec 2017 15:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.4  | 30.0  | 45.0  |
| 170     | 24.1  | 19.5  | 29.3  |



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

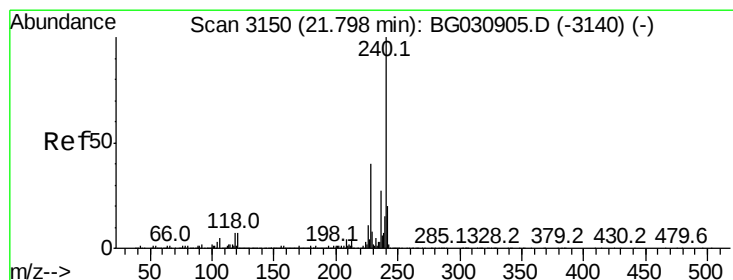
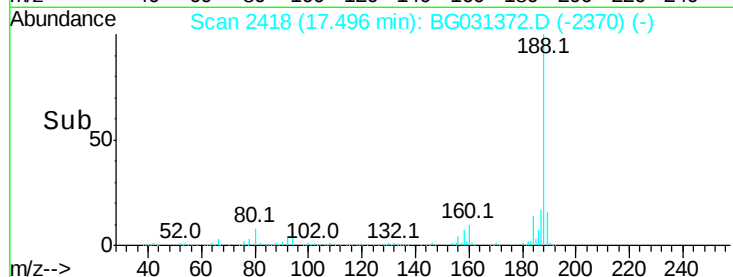
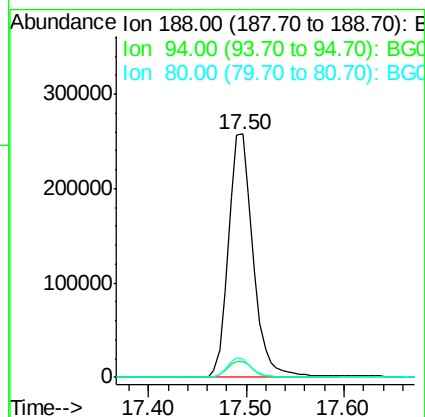
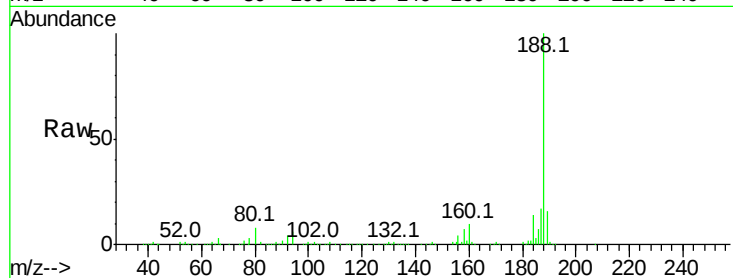




#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.50 min Scan# 2418  
Delta R.T. -0.02 min  
Lab File: BG031372.D  
Acq: 6 Dec 2017 15:50

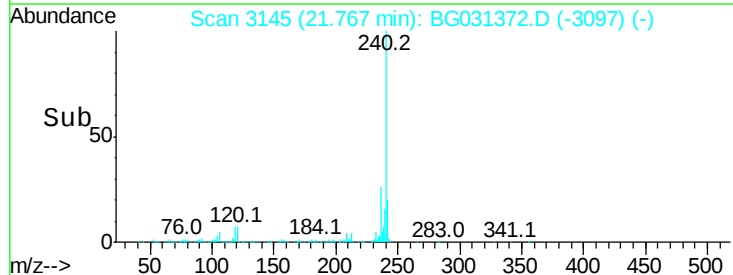
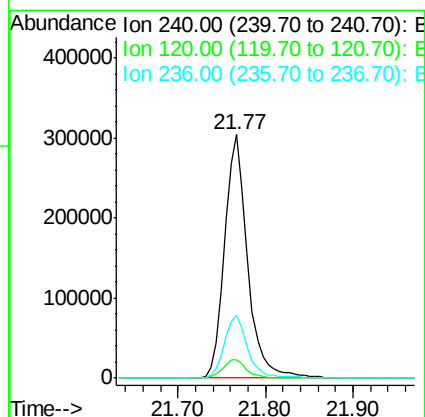
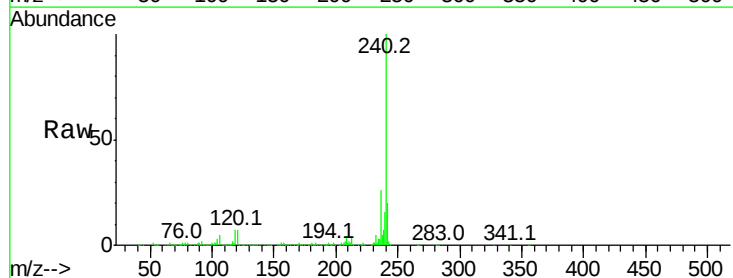
Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:188 Resp: 454557  
Ion Ratio Lower Upper  
188 100  
94 6.4 6.9 10.3#  
80 7.6 7.7 11.5#



#75  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.77 min Scan# 3145  
Delta R.T. -0.02 min  
Lab File: BG031372.D  
Acq: 6 Dec 2017 15:50

Tgt Ion:240 Resp: 552081  
Ion Ratio Lower Upper  
240 100  
120 7.5 6.8 10.2  
236 25.9 20.9 31.3





#78

Terphenyl-d14

Concen: 83.150 ng

RT: 20.08 min Scan# 2858

Delta R.T. -0.02 min

Lab File: BG031372.D

Acq: 6 Dec 2017 15:50

Instrument :

BNA\_G

ClientSampleId :

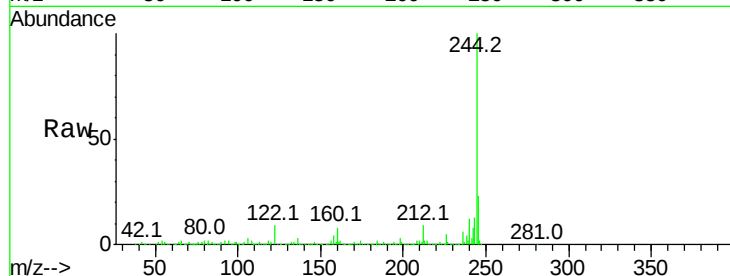
Tot Ion:244 Resp: 2078963

Ion Ratio Lower Upper

244 100

212 8.8 5.8 8.8#

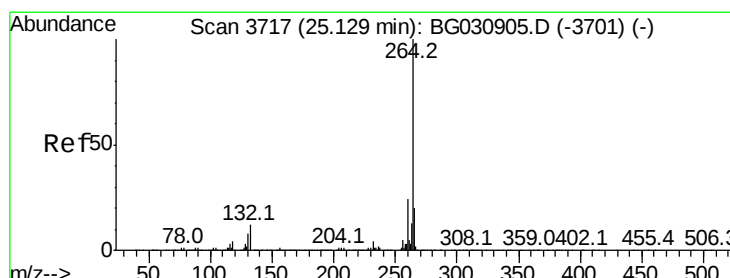
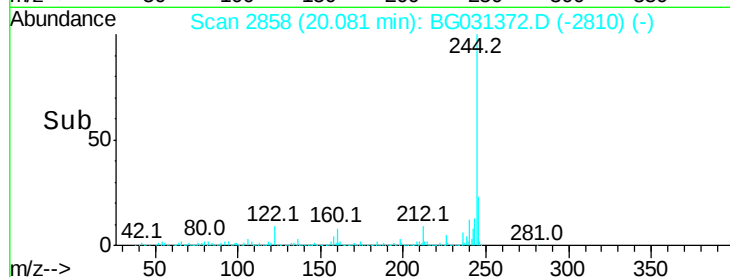
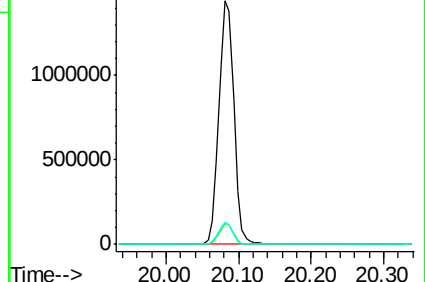
122 9.1 7.0 10.4



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: 20.000 ng

RT: 25.06 min Scan# 3706

Delta R.T. -0.03 min

Lab File: BG031372.D

Acq: 6 Dec 2017 15:50

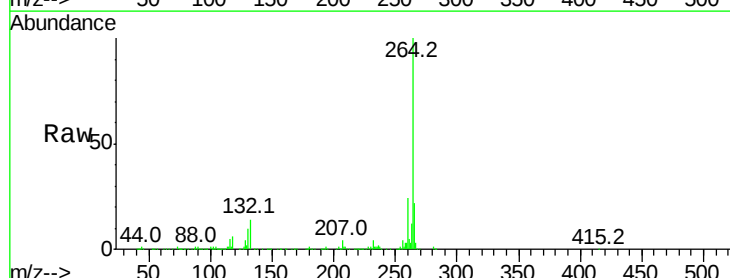
Tgt Ion:264 Resp: 523527

Ion Ratio Lower Upper

264 100

260 24.1 17.4 26.0

265 21.8 17.7 26.5



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

