

Data Path : Z:\HPCHEM1\BNA G\DATA\BG112217\  
 Data File : BG031219.D  
 Acq On : 23 Nov 2017 10:42  
 Operator : SJ/JU  
 Sample : I6560-02  
 Misc :  
 ALS Vial : 32 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Nov 23 23:22:46 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

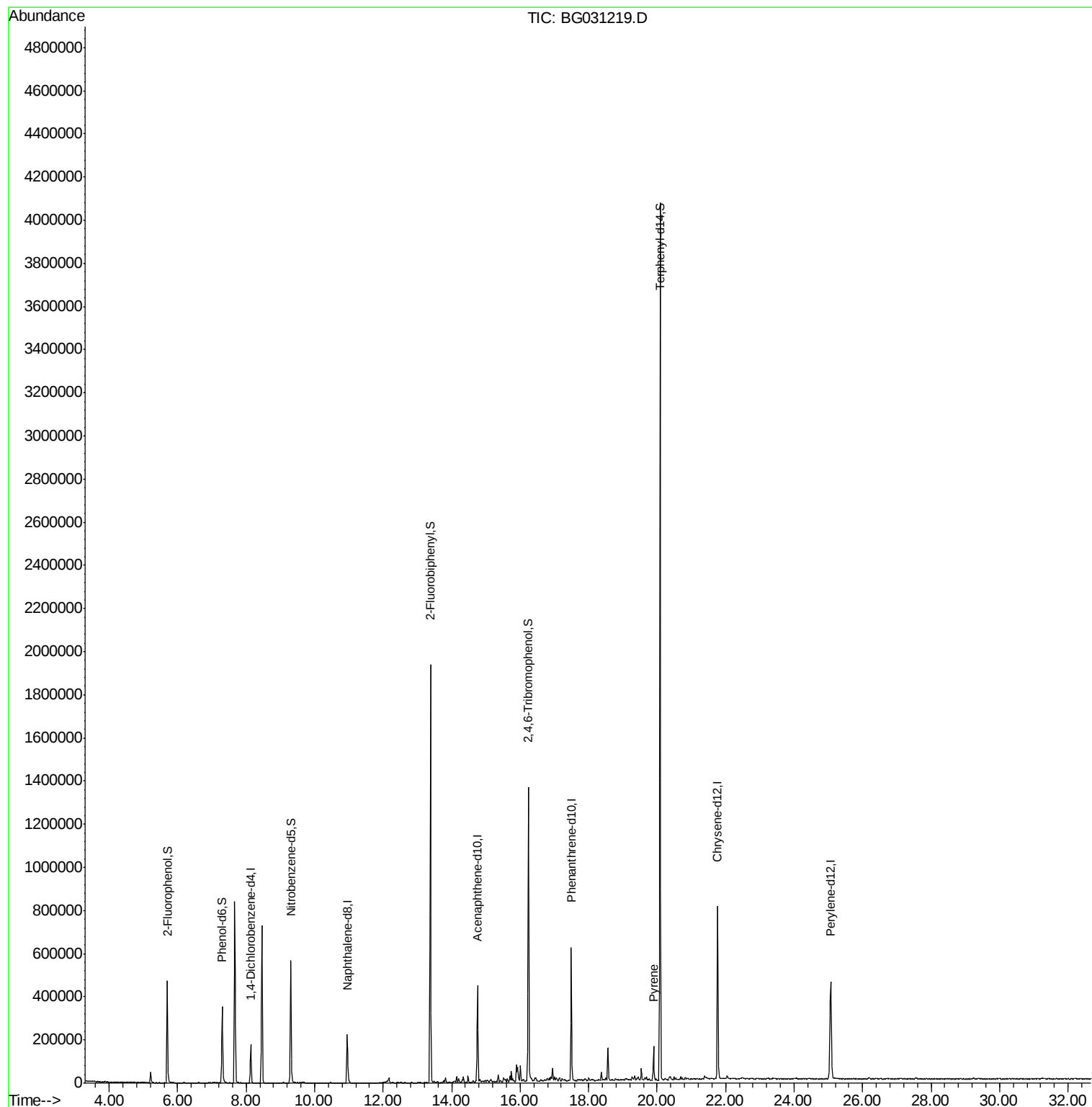
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min)     |
|-----------------------------|-------|------|----------|--------|-------|--------------|
| 1) 1,4-Dichlorobenzene-d4   | 8.13  | 152  | 54624    | 20.00  | ng    | -0.02        |
| 21) Naphthalene-d8          | 10.95 | 136  | 241959   | 20.00  | ng    | -0.01        |
| 38) Acenaphthene-d10        | 14.75 | 164  | 159003   | 20.00  | ng    | -0.02        |
| 63) Phenanthrene-d10        | 17.49 | 188  | 409030   | 20.00  | ng    | -0.02        |
| 75) Chrysene-d12            | 21.76 | 240  | 531275   | 20.00  | ng    | -0.02        |
| 86) Perylene-d12            | 25.07 | 264  | 522841   | 20.00  | ng    | -0.03        |
| System Monitoring Compounds |       |      |          |        |       |              |
| 5) 2-Fluorophenol           | 5.69  | 112  | 247911   | 77.82  | ng    | -0.01        |
| 7) Phenol-d6                | 7.30  | 99   | 238258   | 55.52  | ng    | 0.00         |
| 23) Nitrobenzene-d5         | 9.30  | 82   | 373819   | 91.55  | ng    | -0.02        |
| 41) 2,4,6-Tribromophenol    | 16.24 | 330  | 291052   | 113.16 | ng    | -0.01        |
| 44) 2-Fluorobiphenyl        | 13.38 | 172  | 1094683  | 98.93  | ng    | -0.02        |
| 78) Terphenyl-d14           | 20.09 | 244  | 2109867  | 87.69  | ng    | 0.00         |
| Target Compounds            |       |      |          |        |       |              |
| 77) Pyrene                  | 19.90 | 202  | 115005   | 3.65   | ng    | Qvalue<br>99 |

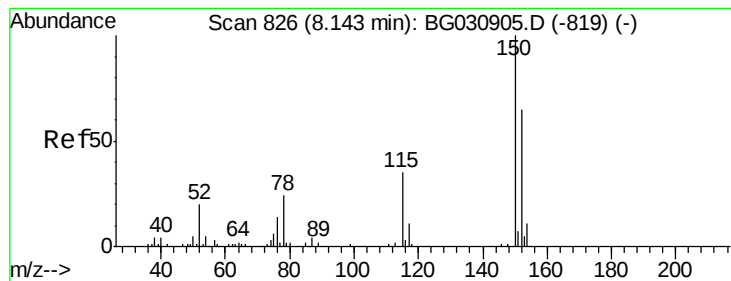
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 32 Sample Multiplier: 1

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BNA\_G  
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Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG111017.M  
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QLast Update : Fri Nov 10 15:38:25 2017  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 8.13 min Scan# 824

Delta R.T. -0.02 min

Lab File: BG031219.D

Acq: 23 Nov 2017 10:42

Instrument :

BNA\_G

ClientSampleId :

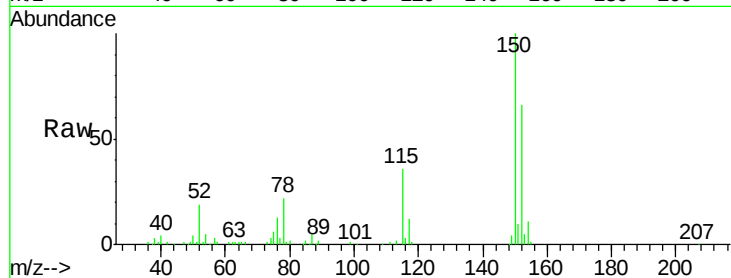
Tot Ion:152 Resp: 54624

Ion Ratio Lower Upper

152 100

150 152.5 126.6 189.8

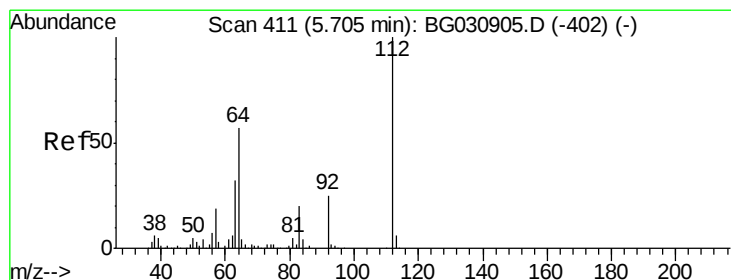
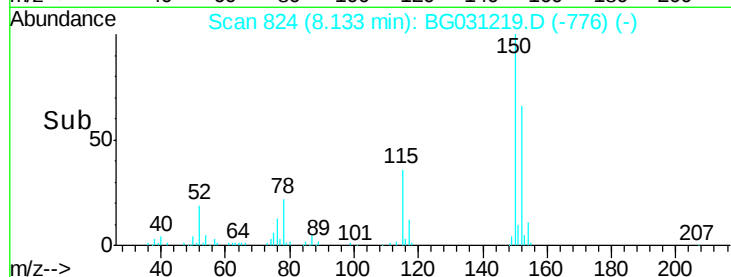
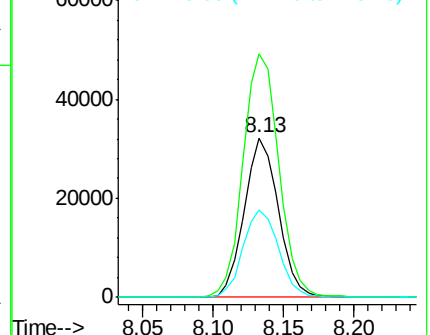
115 54.6 53.0 79.4



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: 77.82 ng

RT: 5.69 min Scan# 409

Delta R.T. -0.01 min

Lab File: BG031219.D

Acq: 23 Nov 2017 10:42

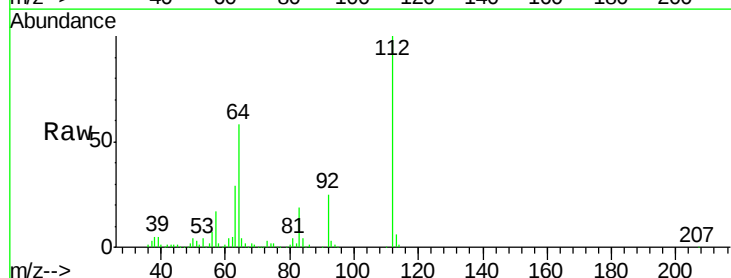
Tgt Ion:112 Resp: 247911

Ion Ratio Lower Upper

112 100

64 58.2 56.3 84.5

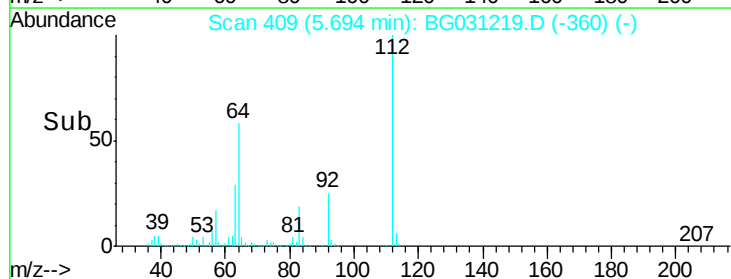
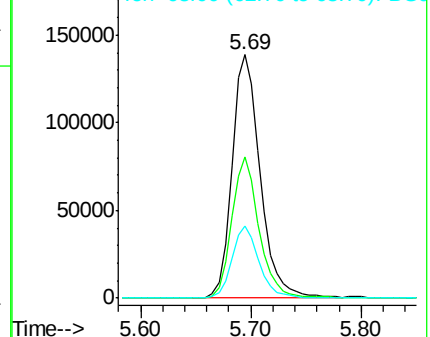
63 29.5 30.1 45.1#

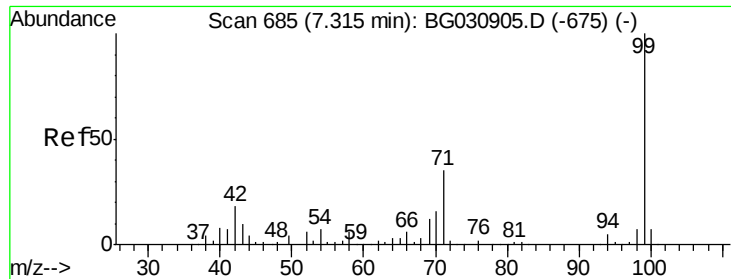


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BG0

Ion 63.00 (62.70 to 63.70): BG0





#7

Phenol-d6

Concen: 55.52 ng

RT: 7.30 min Scan# 682

Delta R.T. -0.01 min

Lab File: BG031219.D

Acq: 23 Nov 2017 10:42

Instrument :

BNA\_G

ClientSampleId :

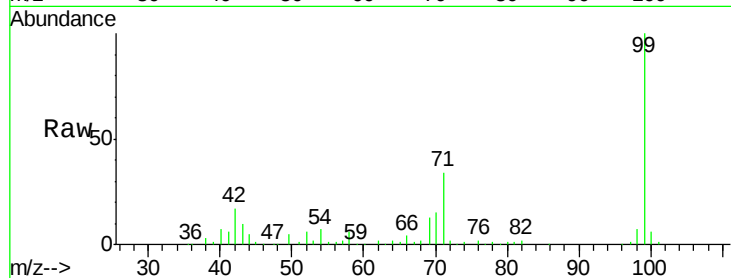
Tot Ion: 99 Resp: 238258

Ion Ratio Lower Upper

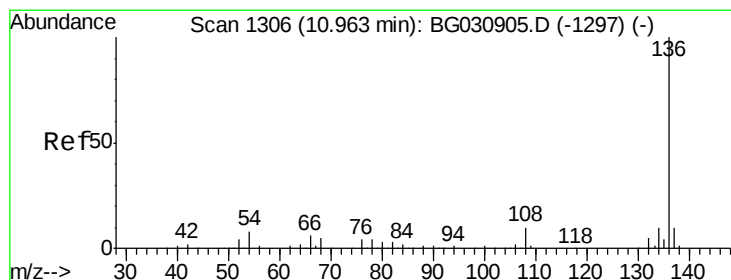
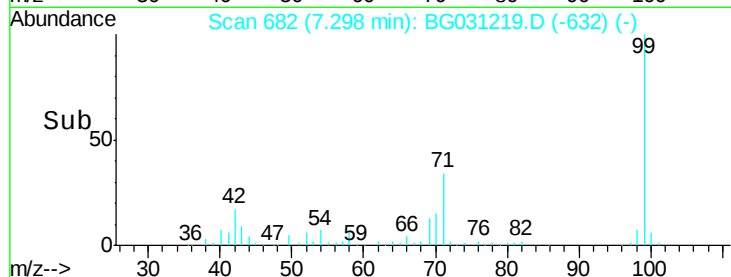
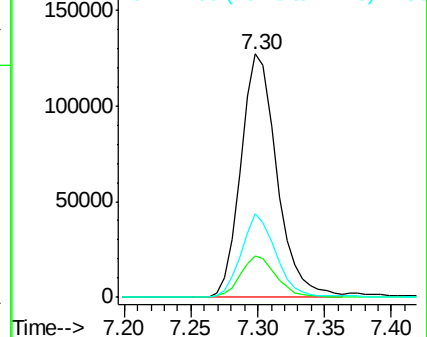
99 100

42 16.8 14.1 21.1

71 34.5 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: 20.00 ng

RT: 10.95 min Scan# 1304

Delta R.T. -0.01 min

Lab File: BG031219.D

Acq: 23 Nov 2017 10:42

Tgt Ion: 136 Resp: 241959

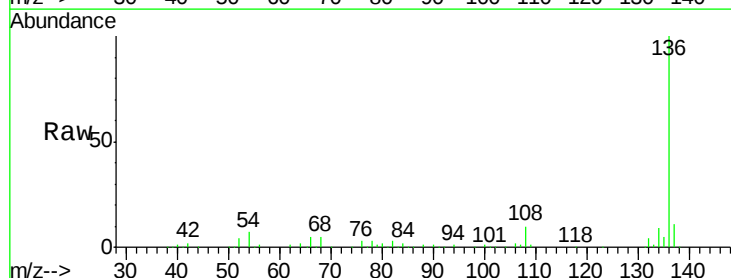
Ion Ratio Lower Upper

136 100

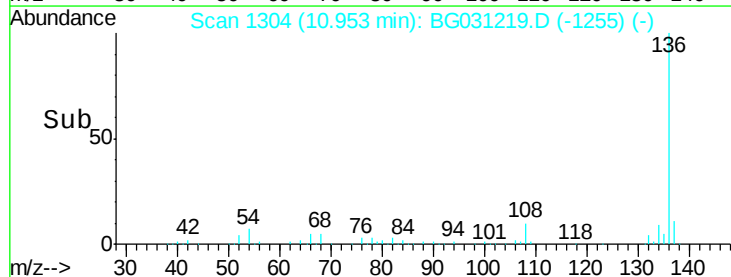
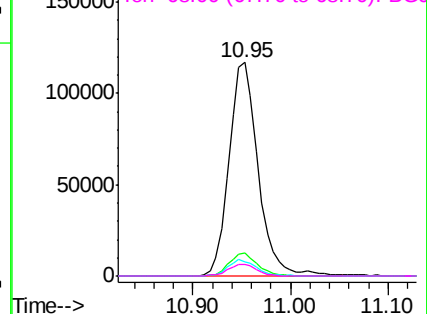
137 10.9 9.2 13.8

54 6.9 10.3 15.5#

68 5.3 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

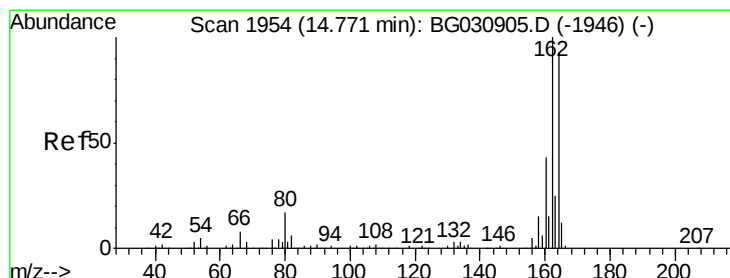
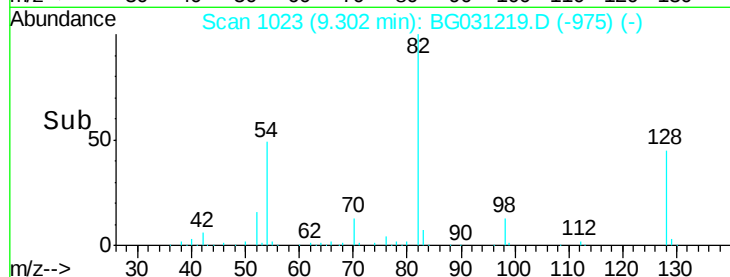
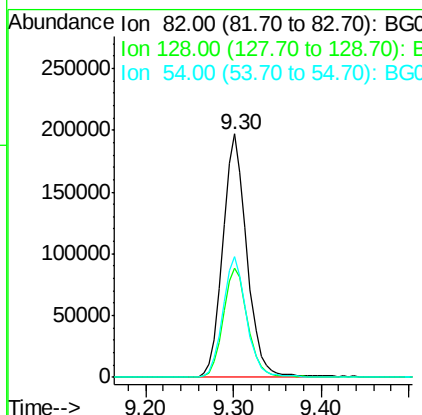
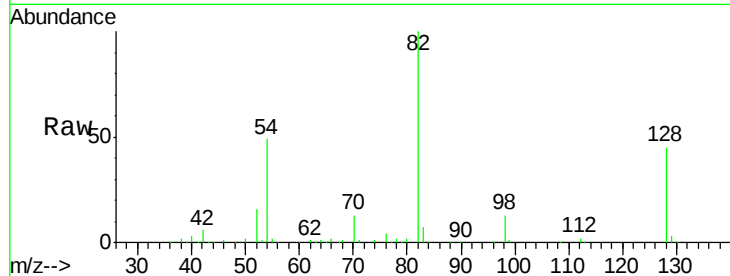




#23  
 Nitrobenzene-d5  
 Concen: 91.55 ng  
 RT: 9.30 min Scan# 1023  
 Delta R.T. -0.02 min  
 Lab File: BG031219.D  
 Acq: 23 Nov 2017 10:42

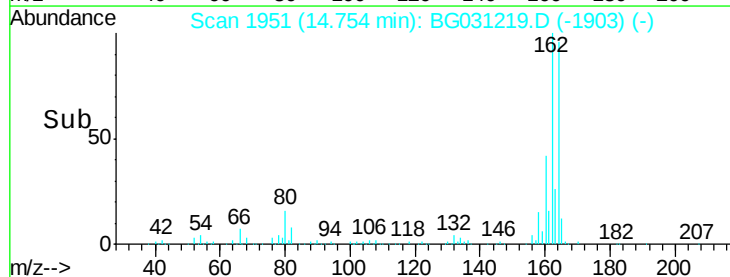
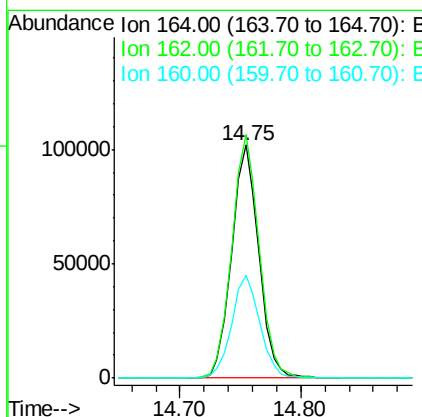
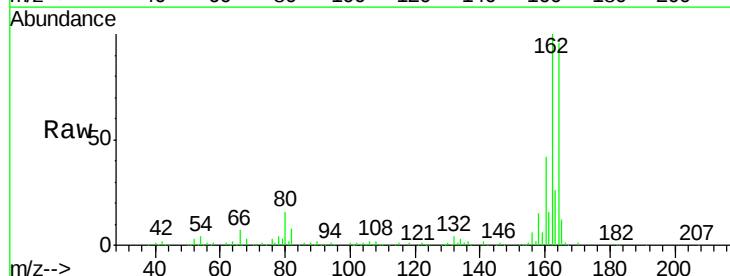
Instrument :  
 BNA\_G  
 ClientSampleId :

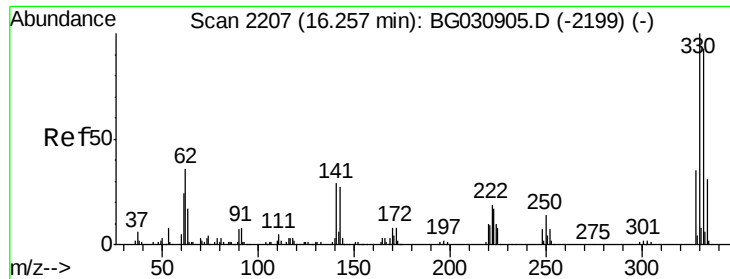
| Tot Ion   | 82    | Resp  | 373819 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 44.9  | 29.7  | 44.5#  |
| 54        | 49.5  | 43.1  | 64.7   |



#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 14.75 min Scan# 1951  
 Delta R.T. -0.02 min  
 Lab File: BG031219.D  
 Acq: 23 Nov 2017 10:42

| Tgt Ion   | 164   | Resp  | 159003 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 164       | 100   |       |        |
| 162       | 104.5 | 78.8  | 118.2  |
| 160       | 44.2  | 35.4  | 53.0   |

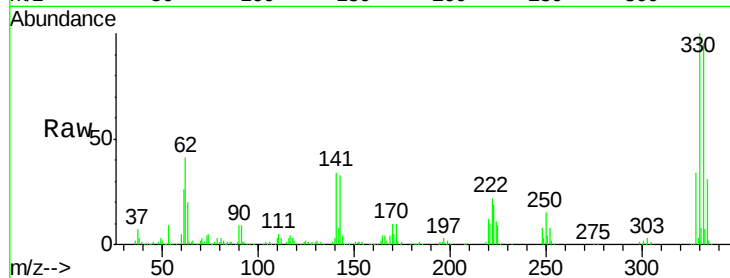




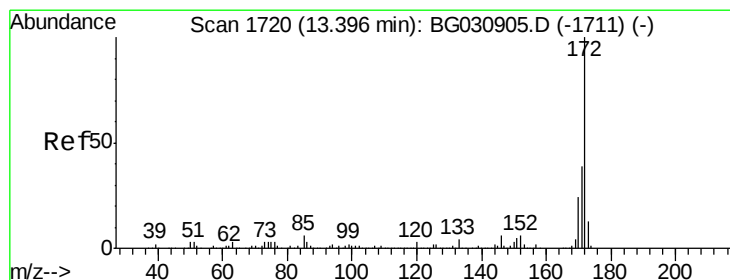
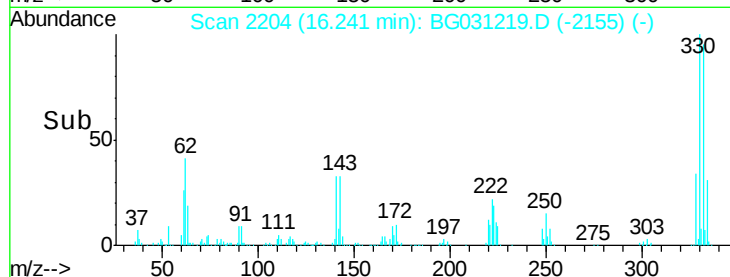
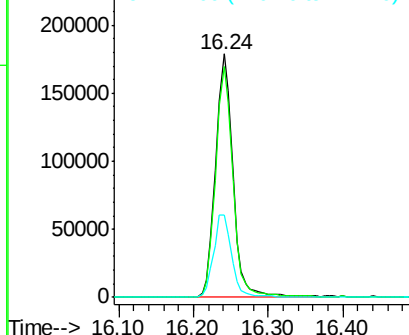
#41  
 2,4,6-Tribromophenol  
 Concen: 113.16 ng  
 RT: 16.24 min Scan# 2204  
 Delta R.T. -0.01 min  
 Lab File: BG031219.D  
 Acq: 23 Nov 2017 10:42

Instrument :  
 BNA\_G  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 94.6  | 77.0  | 115.6 |
| 141     | 35.2  | 25.2  | 37.8  |

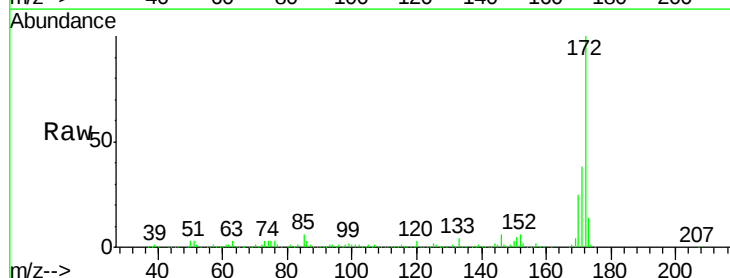


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

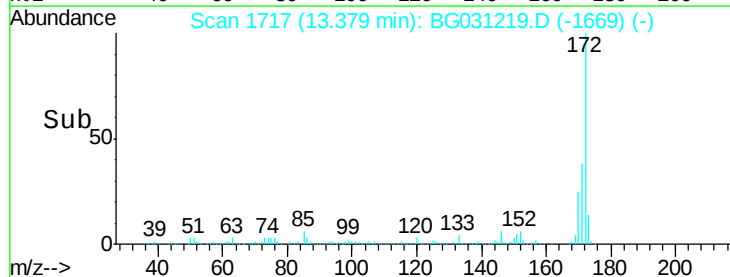
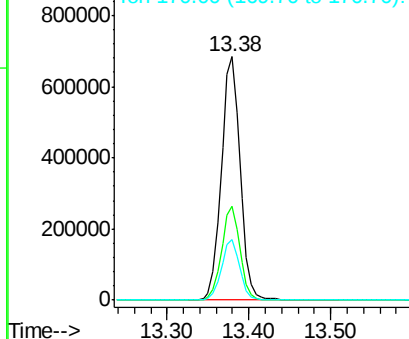


#44  
 2-Fluorobiphenyl  
 Concen: 98.93 ng  
 RT: 13.38 min Scan# 1717  
 Delta R.T. -0.02 min  
 Lab File: BG031219.D  
 Acq: 23 Nov 2017 10:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 38.4  | 30.0  | 45.0  |
| 170     | 24.6  | 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

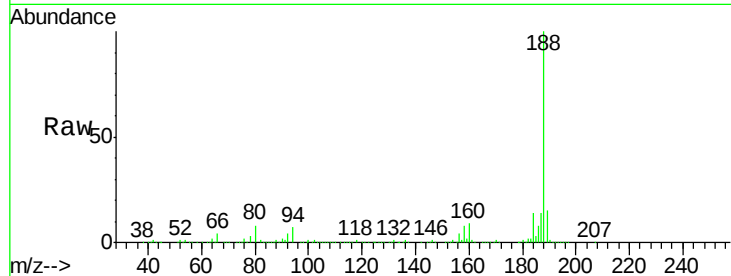




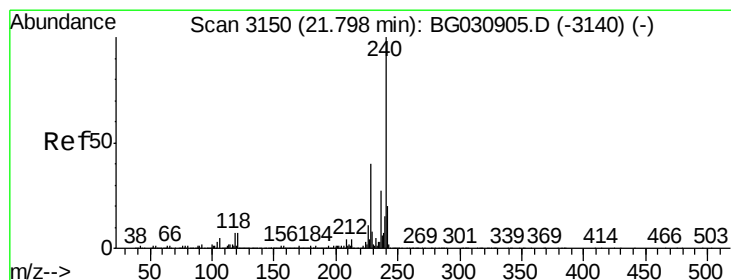
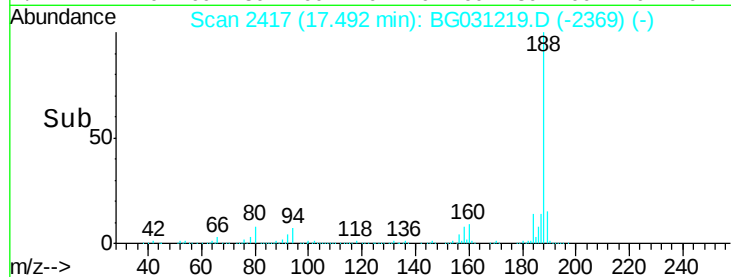
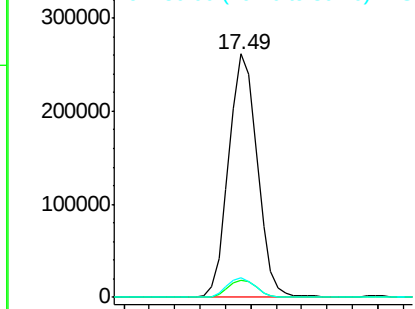
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 17.49 min Scan# 2417  
Delta R.T. -0.02 min  
Lab File: BG031219.D  
Acq: 23 Nov 2017 10:42

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 6.9   | 6.9   | 10.3  |
| 80      | 8.0   | 7.7   | 11.5  |

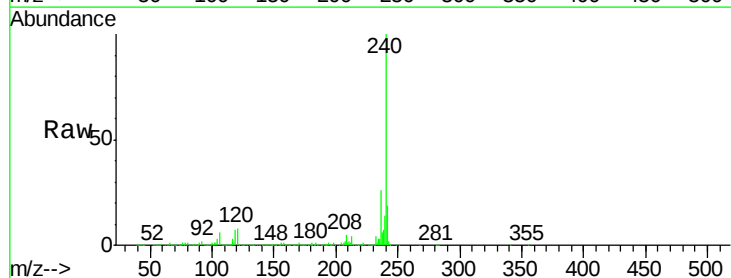


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BGC  
Ion 80.00 (79.70 to 80.70): BGC

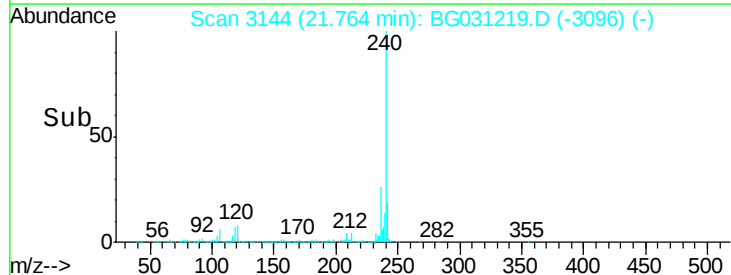
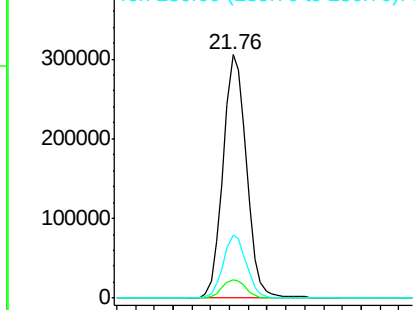


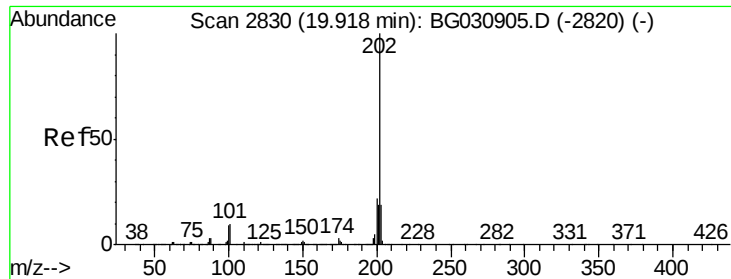
#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 21.76 min Scan# 3144  
Delta R.T. -0.02 min  
Lab File: BG031219.D  
Acq: 23 Nov 2017 10:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 7.6   | 6.8   | 10.2  |
| 236     | 26.1  | 20.9  | 31.3  |



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

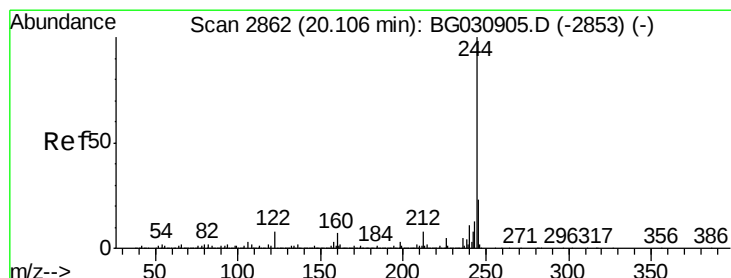
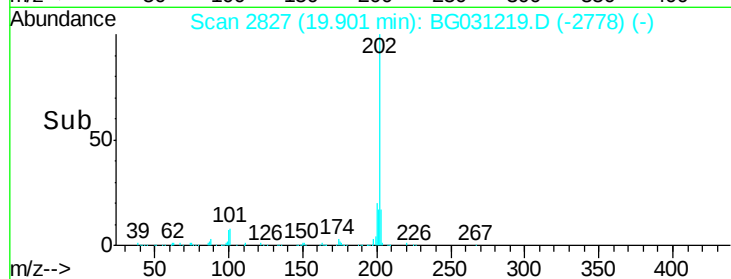
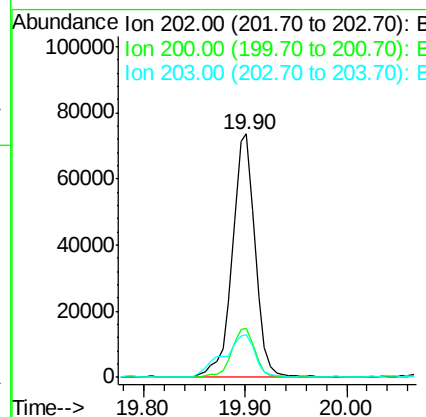
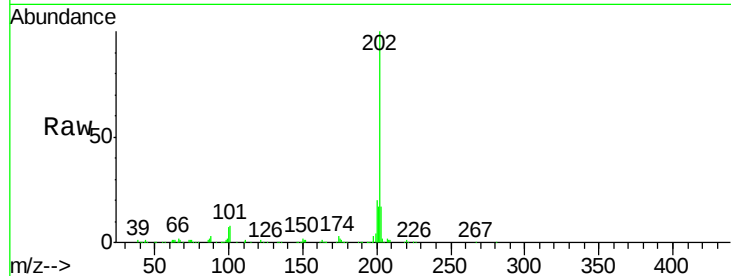




#77  
Pvrene  
Concen: 3.65 ng  
RT: 19.90 min Scan# 2827  
Delta R.T. -0.01 min  
Lab File: BG031219.D  
Acq: 23 Nov 2017 10:42

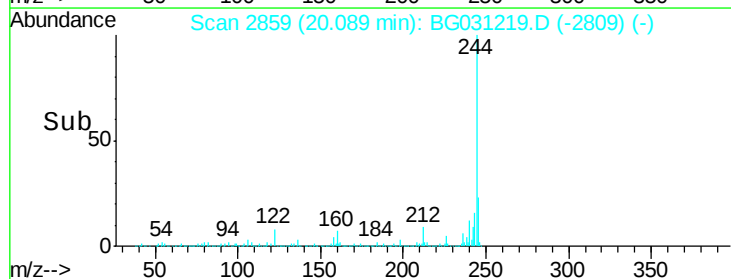
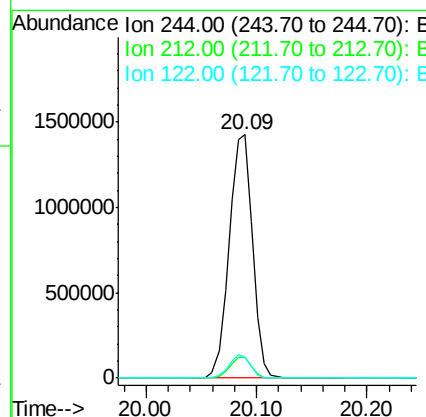
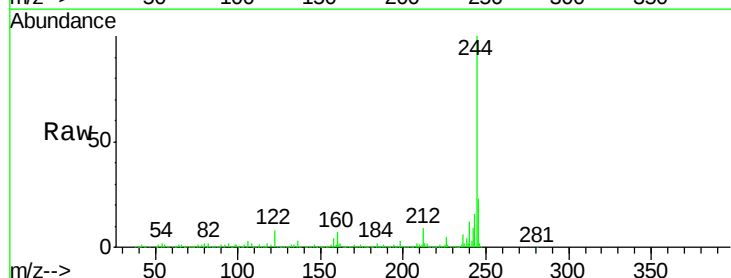
Instrument :  
BNA\_G  
ClientSampleId :

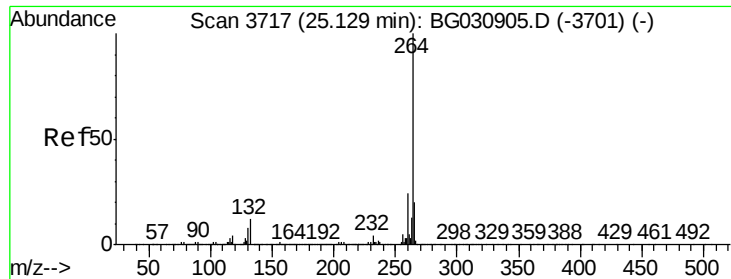
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 202   | Resp: | 115005 |
| Ion      | Ratio | Lower | Upper  |
| 202      | 100   |       |        |
| 200      | 20.2  | 16.9  | 25.3   |
| 203      | 17.4  | 13.9  | 20.9   |



#78  
Terphenyl-d14  
Concen: 87.69 ng  
RT: 20.09 min Scan# 2859  
Delta R.T. -0.01 min  
Lab File: BG031219.D  
Acq: 23 Nov 2017 10:42

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 244   | Resp: | 2109867 |
| Ion      | Ratio | Lower | Upper   |
| 244      | 100   |       |         |
| 212      | 8.7   | 5.8   | 8.8     |
| 122      | 8.4   | 7.0   | 10.4    |





#86  
 Pervlene-d12  
 Concen: 20.00 ng  
 RT: 25.07 min Scan# 3706  
 Delta R.T. -0.03 min  
 Lab File: BG031219.D  
 Acq: 23 Nov 2017 10:42

Instrument :  
 BNA\_G  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.4  | 17.4  | 26.0  |
| 265     | 22.4  | 17.7  | 26.5  |

