

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG082516\  
 Data File : BG023914.D  
 Acq On : 26 Aug 2016 5:44  
 Operator : UM/SJ  
 Sample : H4588-06  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 MW-05

Quant Time: Aug 26 06:51:14 2016  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG080116.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Aug 24 17:42:04 2016  
 Response via : Initial Calibration

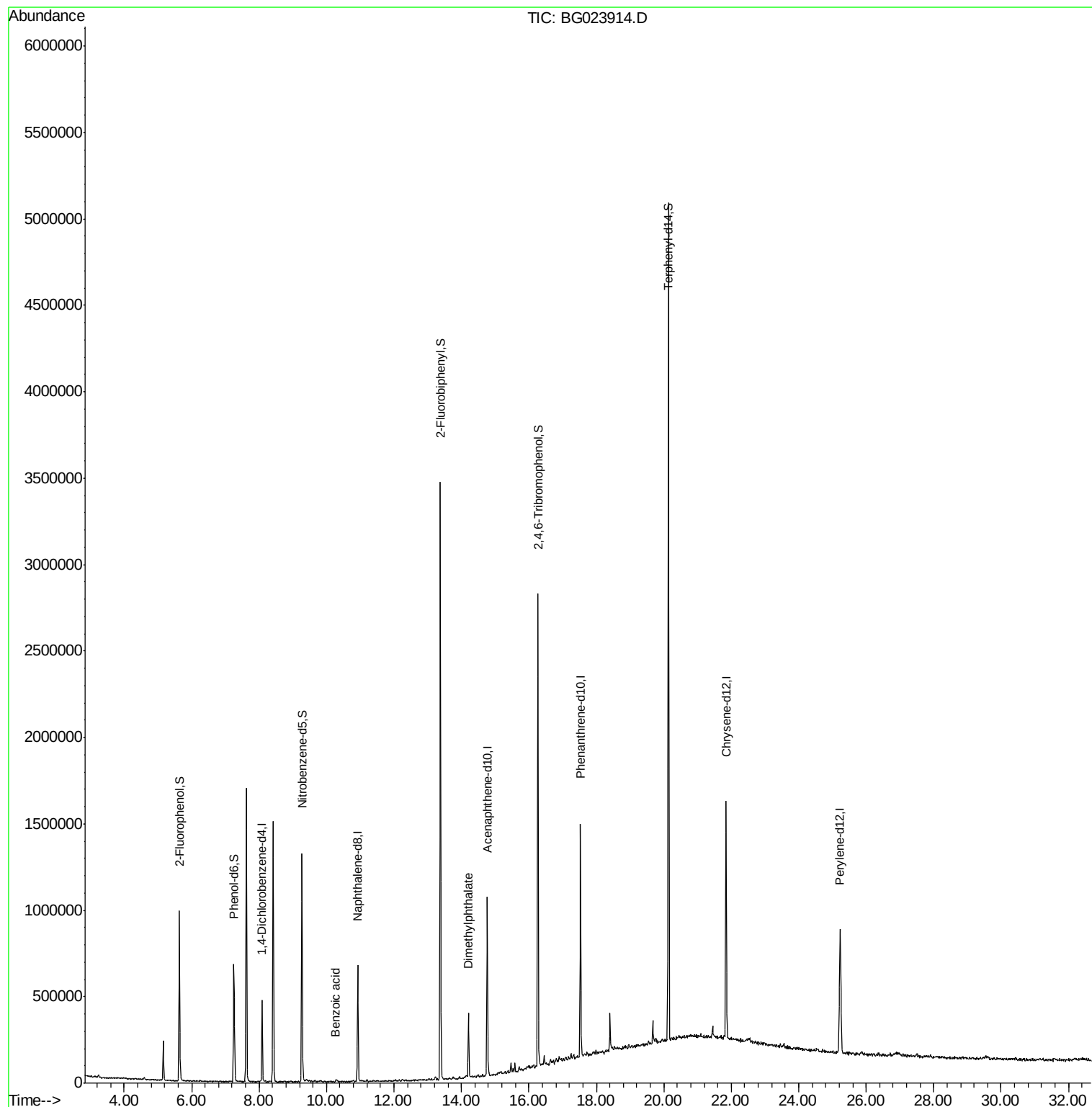
| Internal Standards          | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.09  | 152  | 125963   | 20.00     | ng    | 0.00     |
| 21) Naphthalene-d8          | 10.93 | 136  | 552549   | 20.00     | ng    | 0.00     |
| 38) Acenaphthene-d10        | 14.76 | 164  | 352317   | 20.00     | ng    | 0.00     |
| 63) Phenanthrene-d10        | 17.53 | 188  | 771017   | 20.00     | ng    | 0.00     |
| 75) Chrysene-d12            | 21.85 | 240  | 817600   | 20.00     | ng    | 0.00     |
| 86) Perylene-d12            | 25.23 | 264  | 807782   | 20.00     | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |           |       |          |
| 5) 2-Fluorophenol           | 5.64  | 112  | 424265   | 56.70     | ng    | 0.00     |
| 7) Phenol-d6                | 7.25  | 99   | 409291   | 35.12     | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.27  | 82   | 863943   | 77.73     | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 16.27 | 330  | 478258   | 92.81     | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 13.38 | 172  | 1684581  | 80.65     | ng    | 0.00     |
| 78) Terphenyl-d14           | 20.14 | 244  | 1881222  | 68.23     | ng    | 0.00     |
| Target Compounds            |       |      |          |           |       |          |
| 9) Benzaldehyde             | 7.21  | 77   | 144      | Below Cal | #     | 8        |
| 32) Benzoic acid            | 10.26 | 122  | 59       | 6.45 ng   | #     | 37       |
| 49) Dimethylphthalate       | 14.21 | 163  | 231547   | 8.57 ng   |       | 99       |
| 73) Di-n-butylphthalate     | 18.48 | 149  | 3713     | Below Cal | #     | 65       |
| 74) Fluoranthene            | 19.58 | 202  | 3771     | Below Cal | #     | 28       |
| 77) Pyrene                  | 19.95 | 202  | 4458     | Below Cal | #     | 77       |

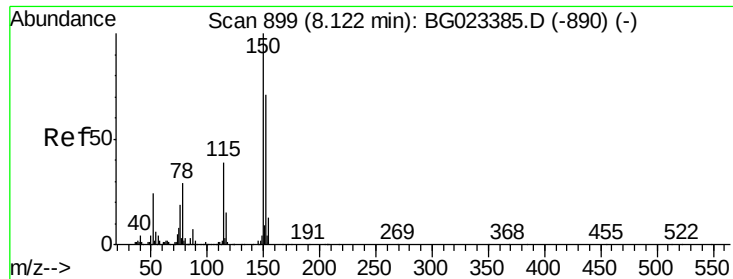
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG082516\  
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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 8.09 min Scan# 894

Delta R.T. -0.01 min

Lab File: BG023914.D

Acq: 26 Aug 2016 5:44

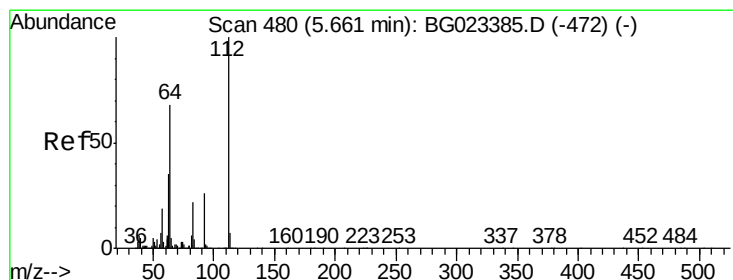
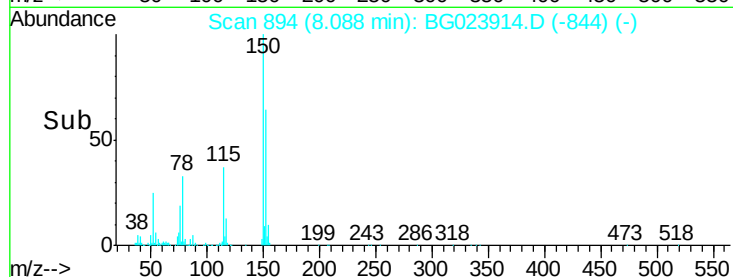
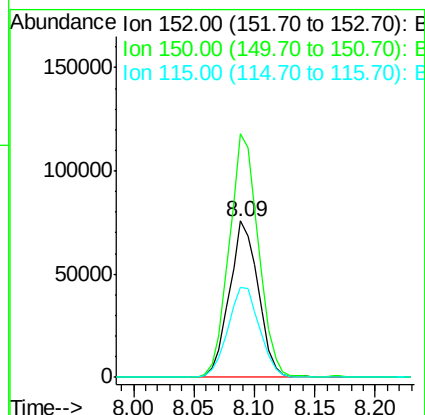
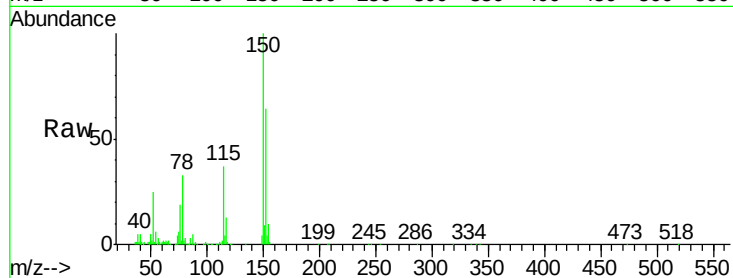
Instrument :

BNA\_G

ClientSampleId :

MW-05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 155.7 | 144.7 | 217.1 |
| 115     | 57.9  | 64.0  | 96.0  |



#5

2-Fluorophenol

Concen: 56.70 ng

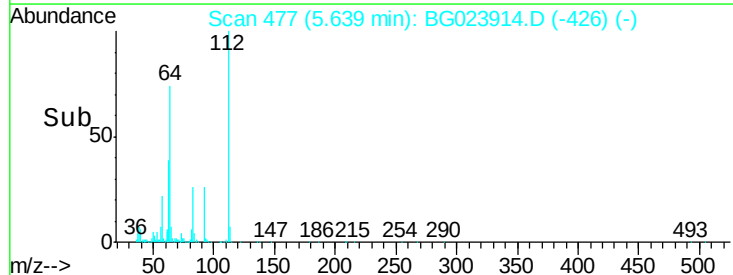
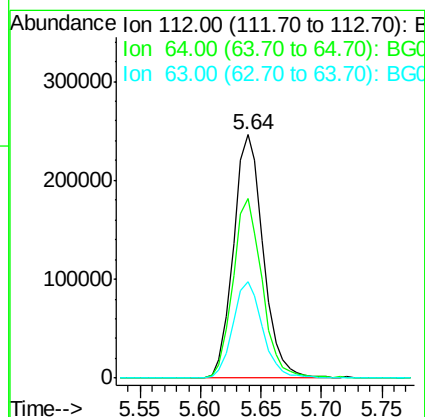
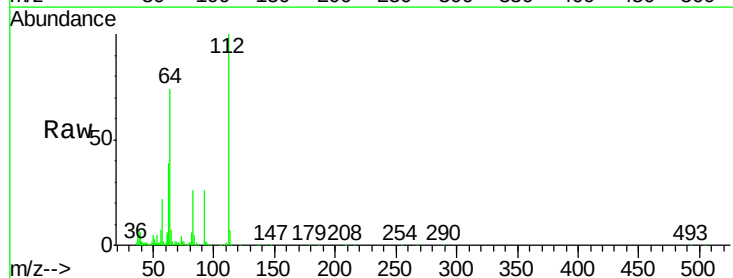
RT: 5.64 min Scan# 477

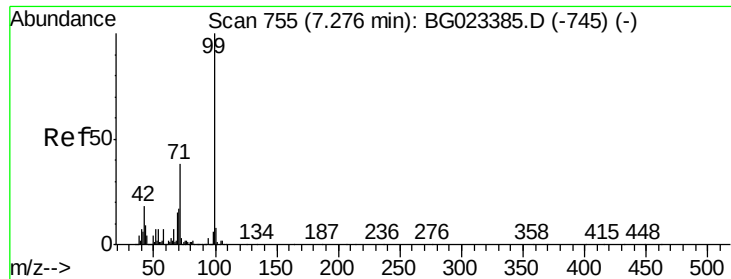
Delta R.T. -0.00 min

Lab File: BG023914.D

Acq: 26 Aug 2016 5:44

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 73.6  | 59.0  | 88.4  |
| 63      | 39.4  | 37.8  | 56.8  |





#7

Phenol-d6

Concen: 35.12 ng

RT: 7.25 min Scan# 752

Delta R.T. -0.00 min

Lab File: BG023914.D

Acq: 26 Aug 2016 5:44

Instrument :

BNA\_G

ClientSampleId :

MW-05

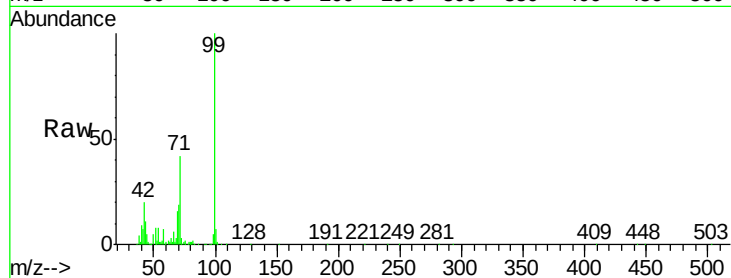
Tgt Ion: 99 Resp: 409291

Ion Ratio Lower Upper

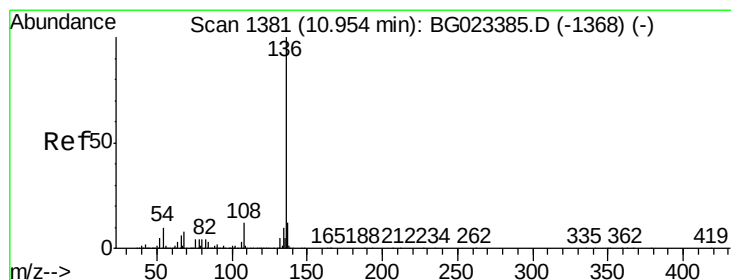
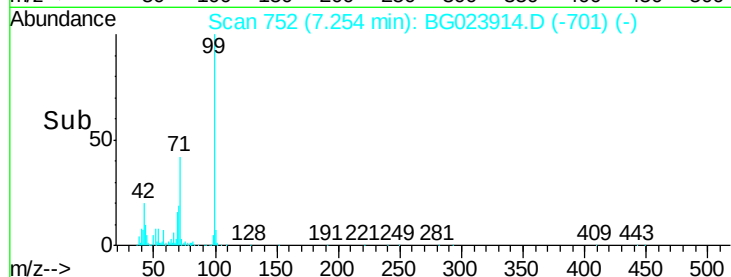
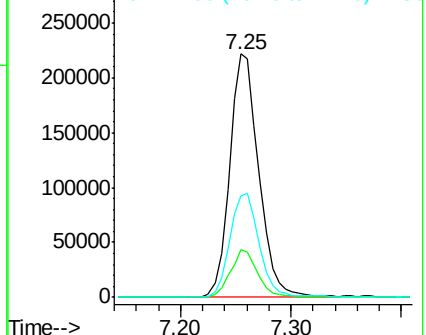
99 100

42 19.8 17.8 26.6

71 41.9 41.5 62.3



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: 10.93 min Scan# 1377

Delta R.T. -0.01 min

Lab File: BG023914.D

Acq: 26 Aug 2016 5:44

Tgt Ion: 136 Resp: 552549

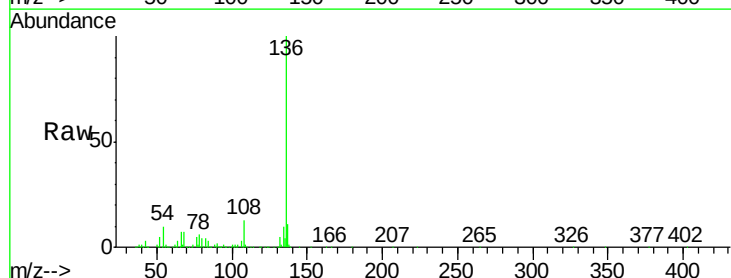
Ion Ratio Lower Upper

136 100

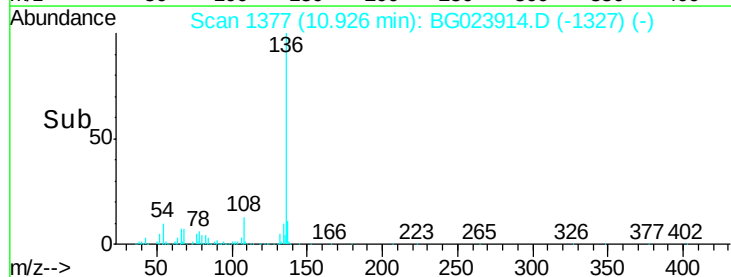
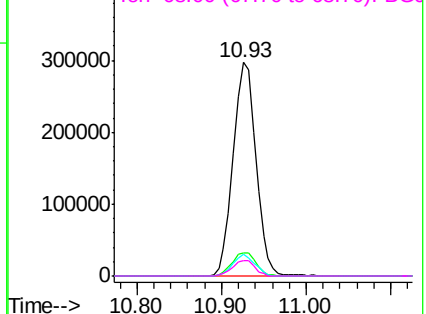
137 11.1 9.6 14.4

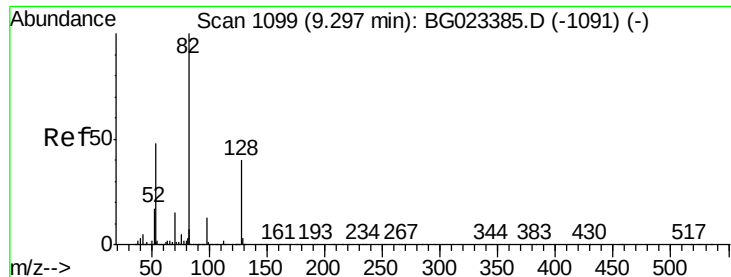
54 10.2 7.3 10.9

68 7.1 5.3 7.9



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

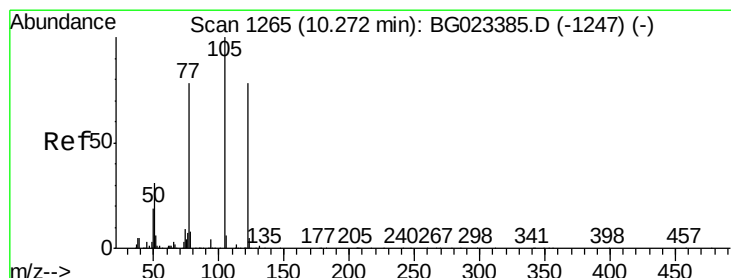
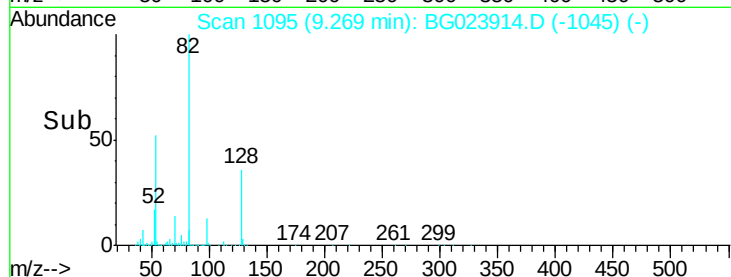
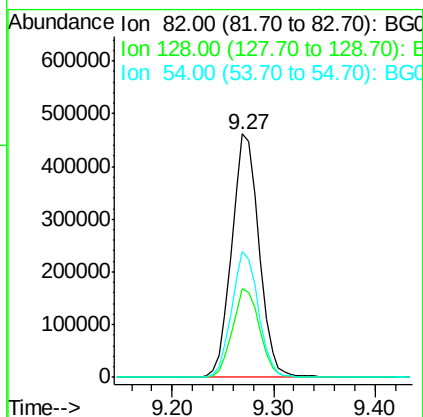
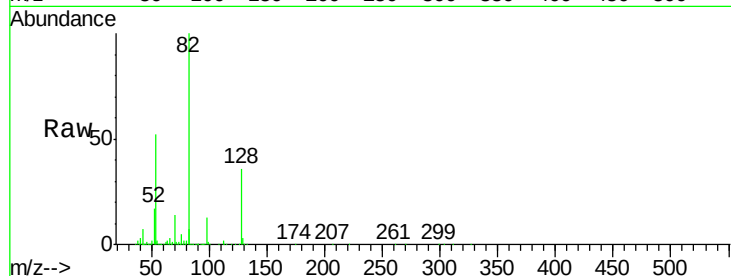




#23  
 Nitrobenzene-d5  
 Concen: 77.73 ng  
 RT: 9.27 min Scan# 1095  
 Delta R.T. -0.01 min  
 Lab File: BG023914.D  
 Acq: 26 Aug 2016 5:44

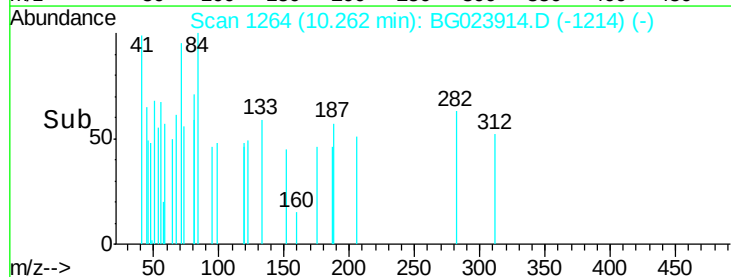
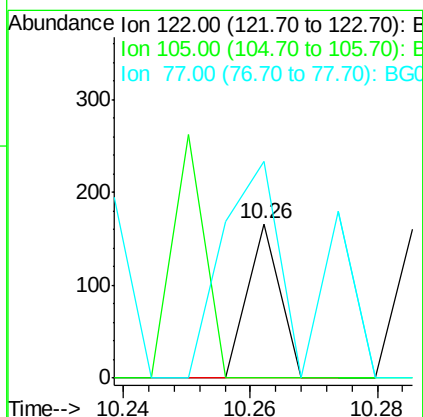
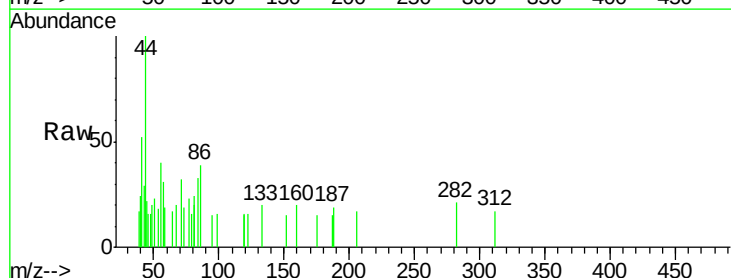
Instrument :  
 BNA\_G  
 ClientSampleId :  
 MW-05

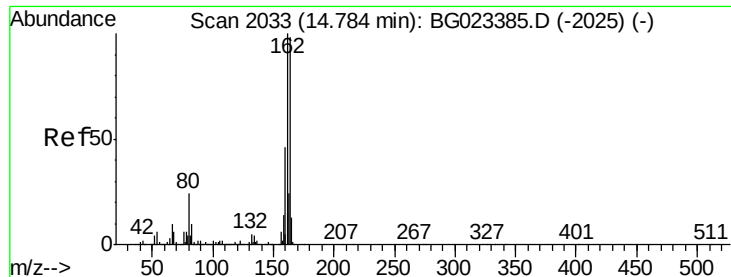
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 36.4  | 24.4  | 36.6  |
| 54      | 51.6  | 41.4  | 62.0  |



#32  
 Benzoic acid  
 Concen: 6.45 ng  
 RT: 10.26 min Scan# 1264  
 Delta R.T. -0.01 min  
 Lab File: BG023914.D  
 Acq: 26 Aug 2016 5:44

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 122     | 100   |       |        |
| 105     | 0.0   | 117.2 | 157.2# |
| 77      | 140.4 | 109.2 | 149.2  |

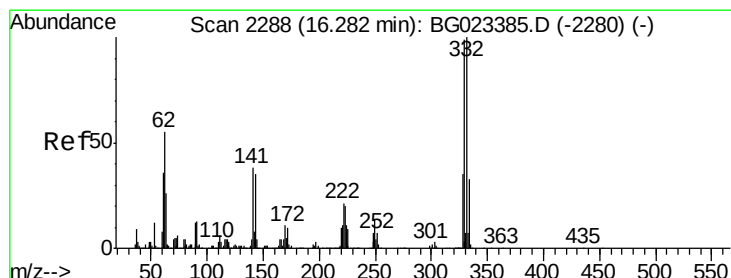
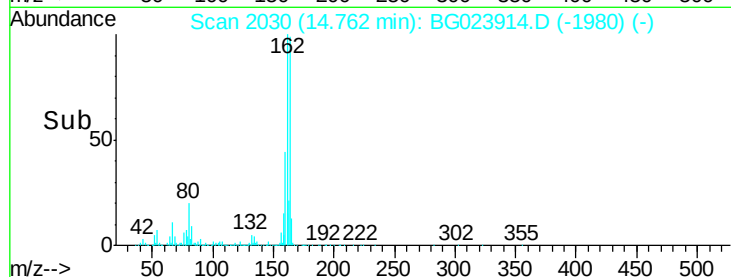
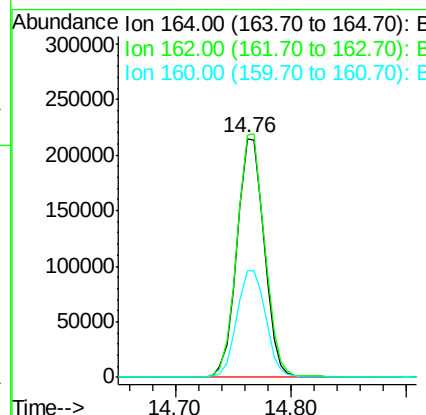
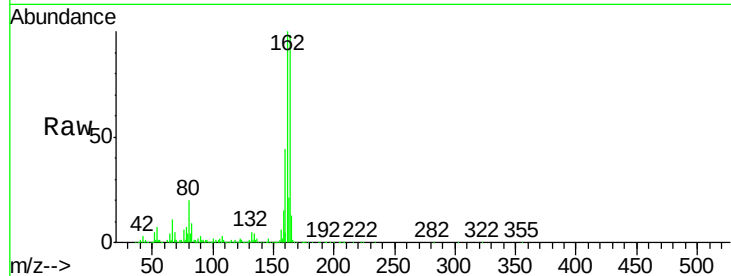




#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 14.76 min Scan# 2030  
Delta R.T. -0.01 min  
Lab File: BG023914.D  
Acq: 26 Aug 2016 5:44

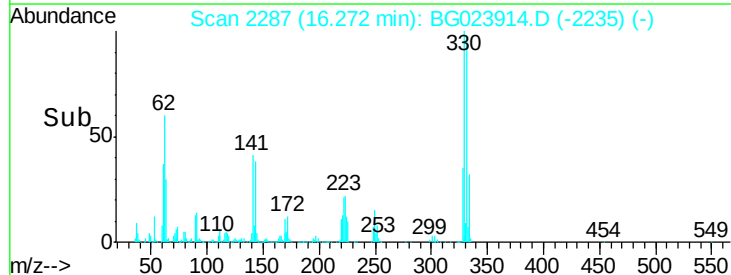
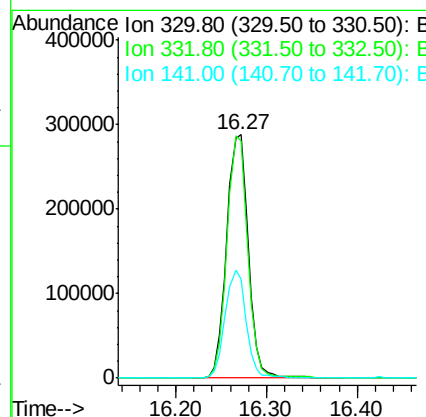
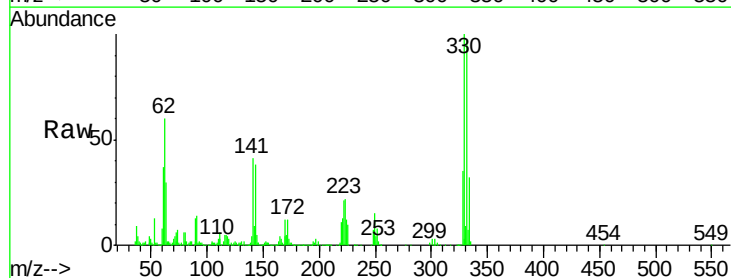
Instrument :  
BNA\_G  
ClientSampleId :  
MW-05

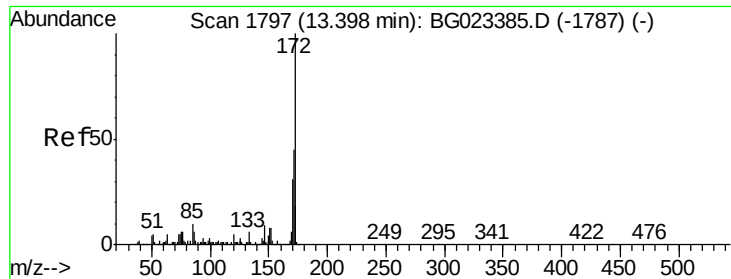
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 101.7 | 87.7  | 131.5 |
| 160     | 44.8  | 37.2  | 55.8  |



#41  
2,4,6-Tribromophenol  
Concen: 92.81 ng  
RT: 16.27 min Scan# 2287  
Delta R.T. 0.01 min  
Lab File: BG023914.D  
Acq: 26 Aug 2016 5:44

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 95.1  | 77.4  | 116.2 |
| 141     | 42.8  | 31.7  | 47.5  |

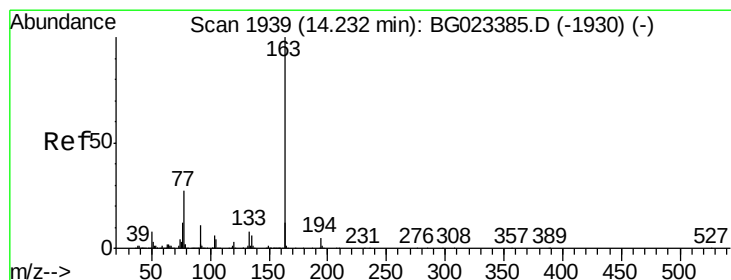
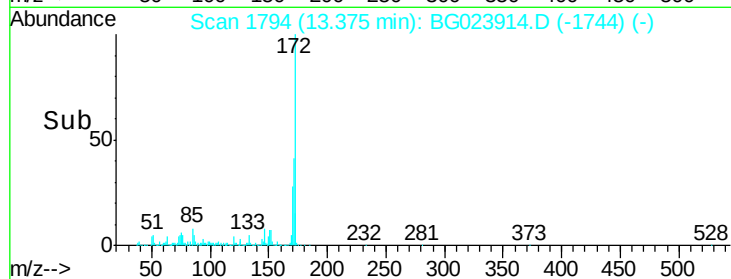
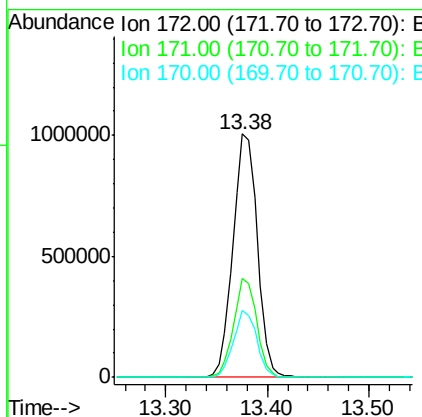
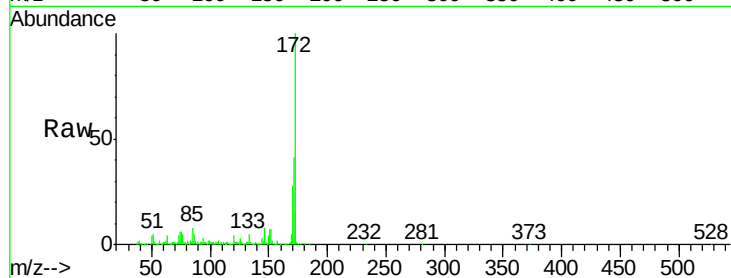




#44  
2-Fluorobiphenyl  
Concen: 80.65 ng  
RT: 13.38 min Scan# 1794  
Delta R.T. -0.01 min  
Lab File: BG023914.D  
Acq: 26 Aug 2016 5:44

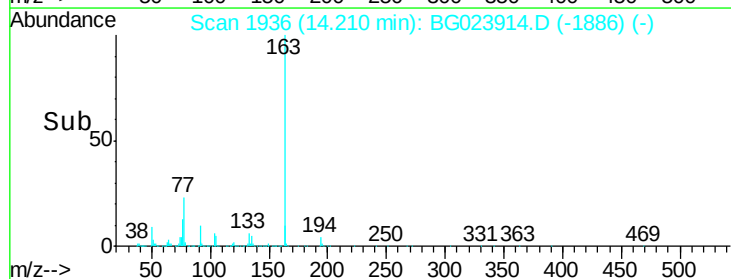
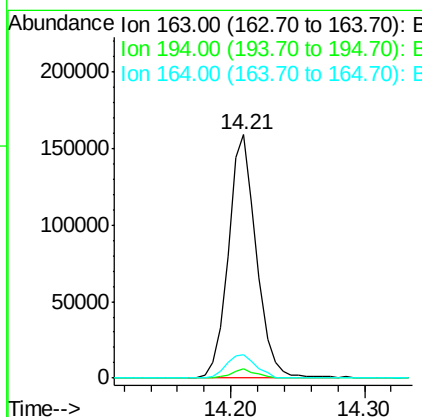
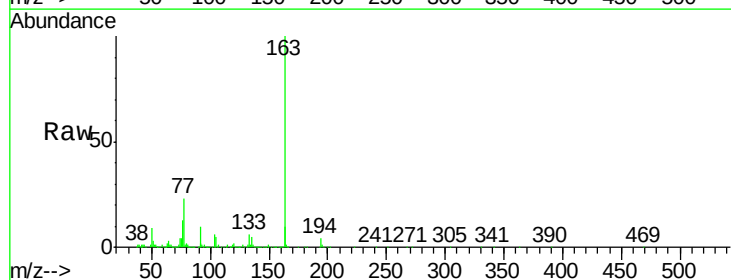
Instrument :  
BNA\_G  
ClientSampled :  
MW-05

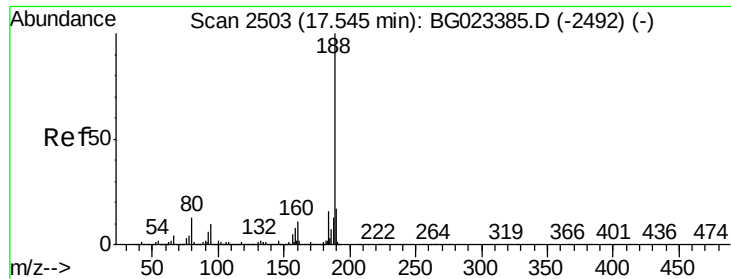
Tgt Ion:172 Resp: 1684581  
Ion Ratio Lower Upper  
172 100  
171 40.7 31.6 47.4  
170 27.7 21.3 31.9



#49  
Dimethylphthalate  
Concen: 8.57 ng  
RT: 14.21 min Scan# 1936  
Delta R.T. -0.01 min  
Lab File: BG023914.D  
Acq: 26 Aug 2016 5:44

Tgt Ion:163 Resp: 231547  
Ion Ratio Lower Upper  
163 100  
194 4.0 3.6 5.4  
164 9.8 8.1 12.1





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 17.53 min Scan# 2501

Delta R.T. -0.00 min

Lab File: BG023914.D

Acq: 26 Aug 2016 5:44

Instrument :

BNA\_G

ClientSampleId :

MW-05

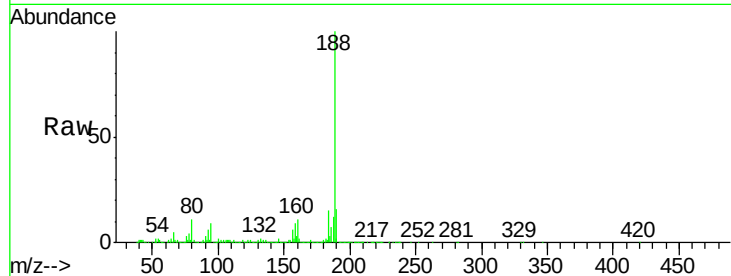
Tgt Ion:188 Resp: 771017

Ion Ratio Lower Upper

188 100

94 9.3 5.2 7.8#

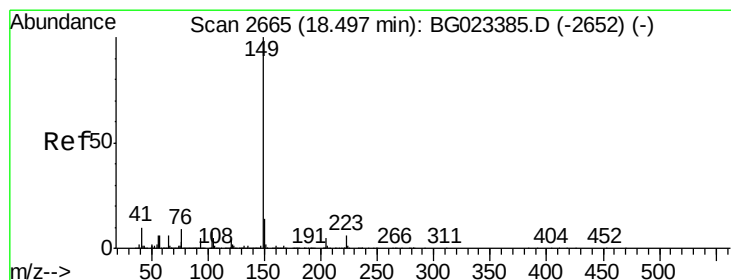
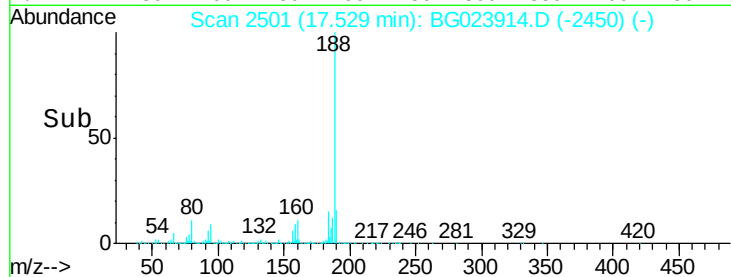
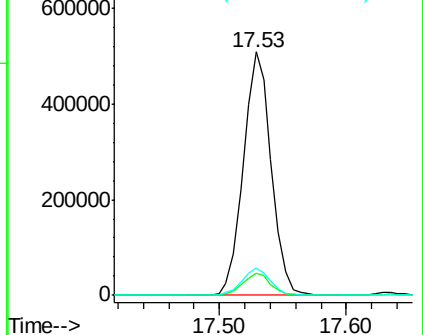
80 11.2 7.2 10.8#



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



#73

Di-n-butylphthalate

Concen: Below Cal

RT: 18.48 min Scan# 2663

Delta R.T. 0.01 min

Lab File: BG023914.D

Acq: 26 Aug 2016 5:44

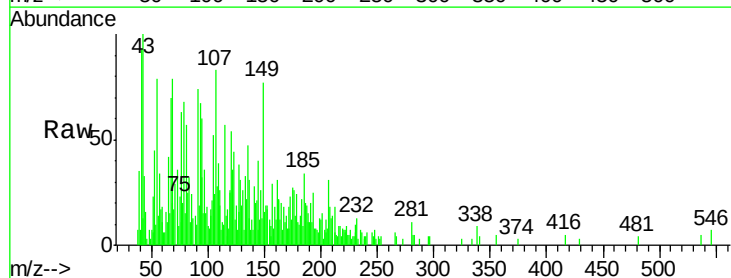
Tgt Ion:149 Resp: 3713

Ion Ratio Lower Upper

149 100

150 20.6 9.1 13.7#

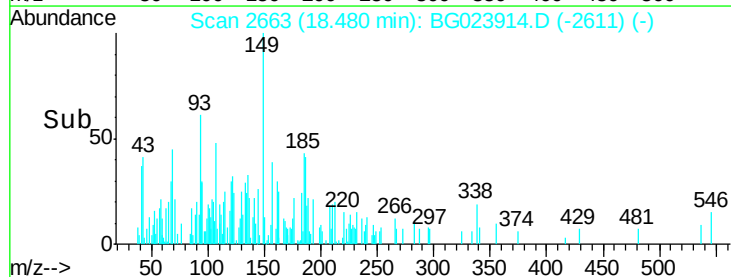
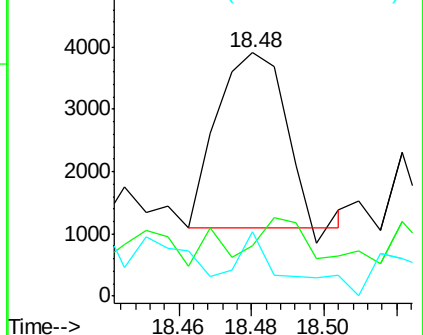
104 26.6 6.9 10.3#



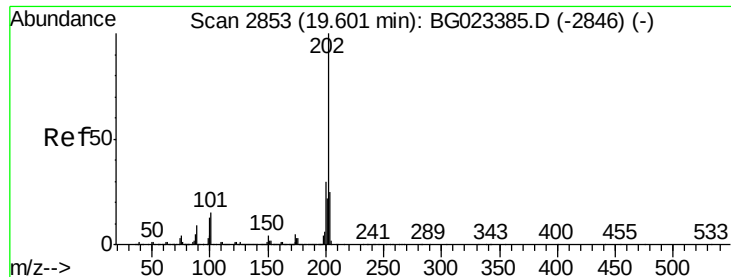
Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E







#74

Fluoranthene

Concen: Below Cal

RT: 19.58 min Scan# 2851

Delta R.T. -0.00 min

Lab File: BG023914.D

Acq: 26 Aug 2016 5:44

Instrument :

BNA\_G

ClientSampleId :

MW-05

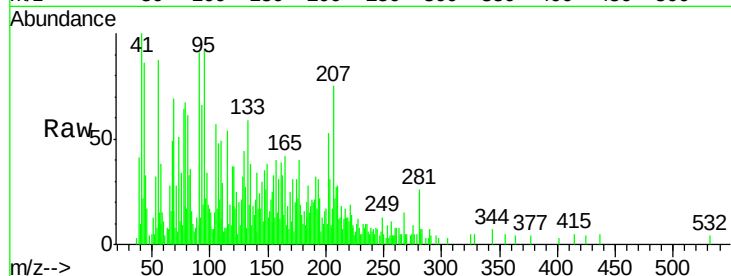
Tgt Ion:202 Resp: 3771

Ion Ratio Lower Upper

202 100

101 27.8 0.0 27.4#

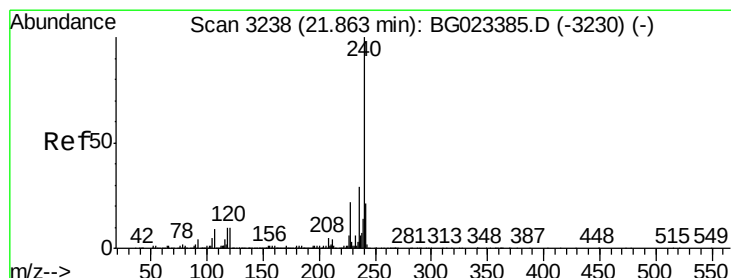
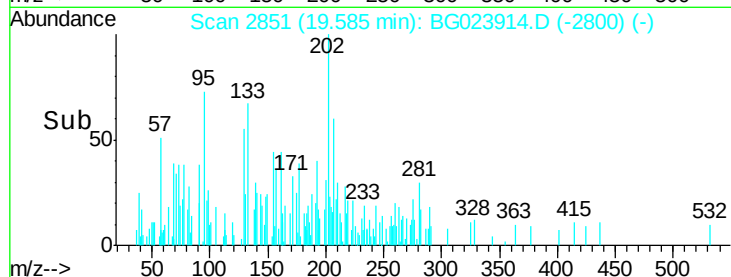
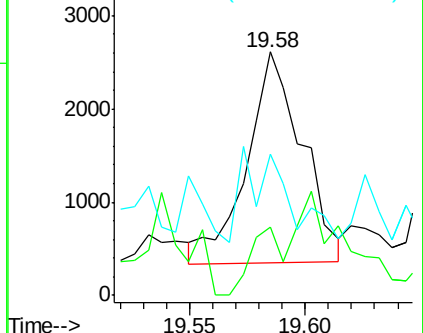
203 58.1 1.7 41.7#



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.00 ng

RT: 21.85 min Scan# 3236

Delta R.T. -0.00 min

Lab File: BG023914.D

Acq: 26 Aug 2016 5:44

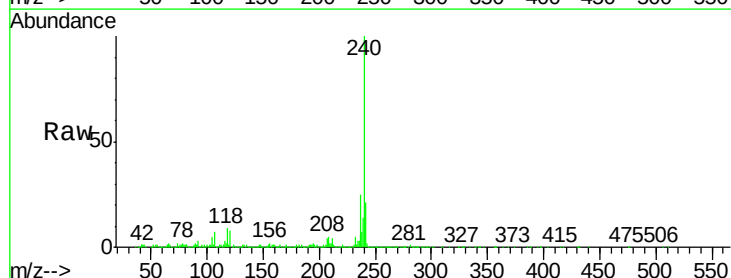
Tgt Ion:240 Resp: 817600

Ion Ratio Lower Upper

240 100

120 8.2 4.1 6.1#

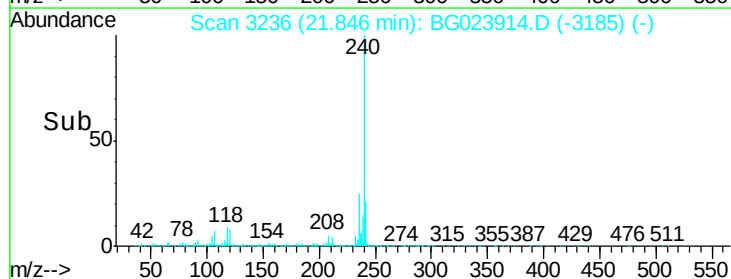
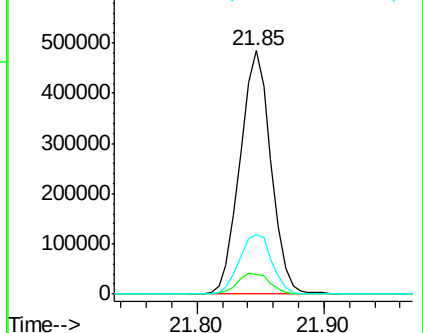
236 24.6 21.1 31.7

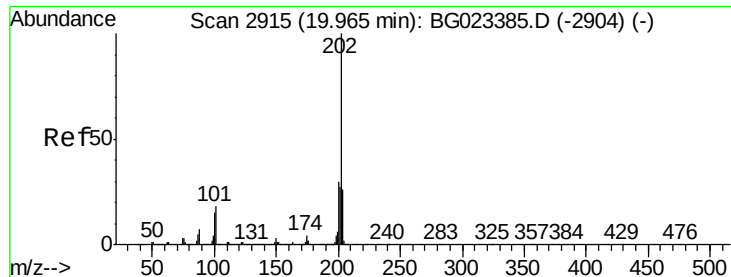


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pyrene

Concen: Below Cal

RT: 19.95 min Scan# 2914

Delta R.T. 0.01 min

Lab File: BG023914.D

Acq: 26 Aug 2016 5:44

Instrument :

BNA\_G

ClientSampleId :

MW-05

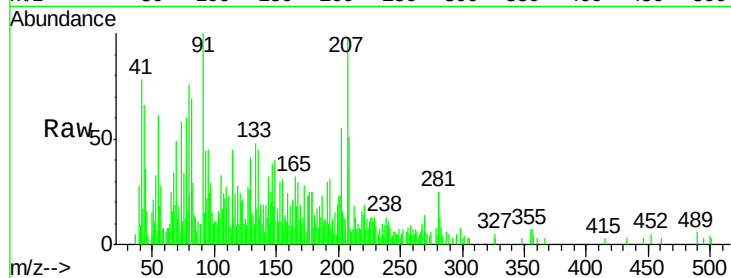
Tgt Ion:202 Resp: 4458

Ion Ratio Lower Upper

202 100

200 40.9 21.2 31.8#

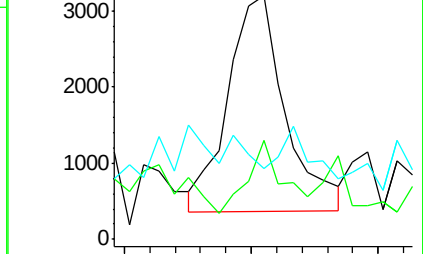
203 29.2 16.8 25.2#



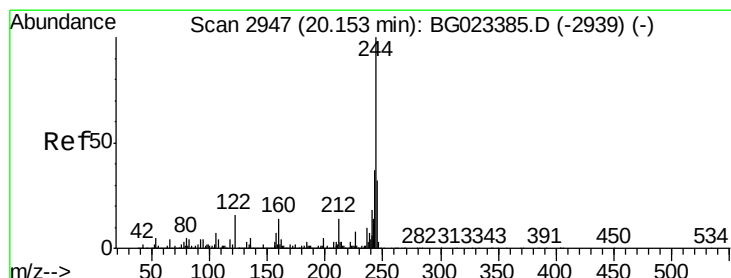
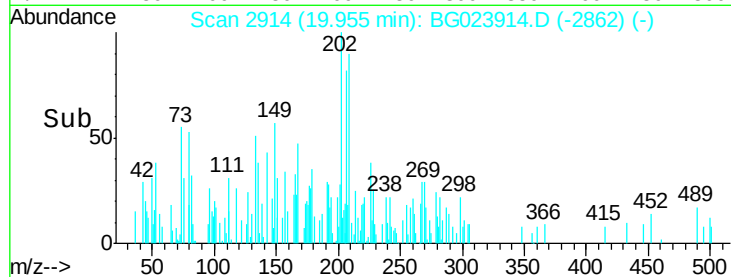
Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



Time-->



#78

Terphenyl-d14

Concen: 68.23 ng

RT: 20.14 min Scan# 2945

Delta R.T. -0.00 min

Lab File: BG023914.D

Acq: 26 Aug 2016 5:44

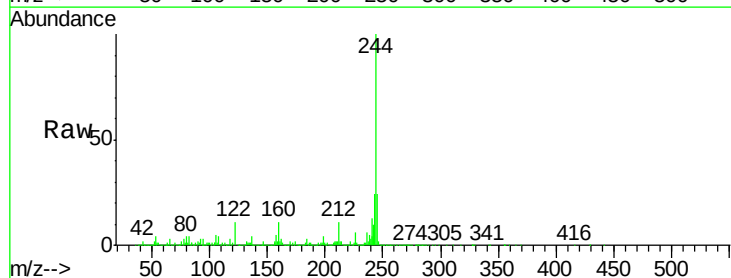
Tgt Ion:244 Resp: 1881222

Ion Ratio Lower Upper

244 100

212 11.0 10.8 16.2

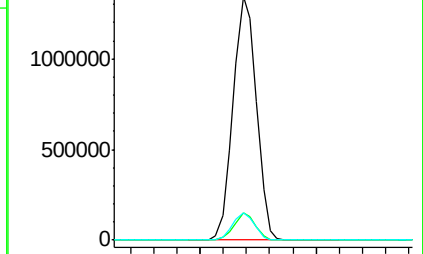
122 11.0 8.0 12.0



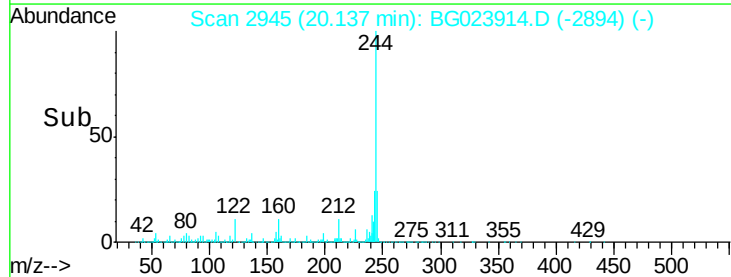
Abundance Ion 244.00 (243.70 to 244.70): E

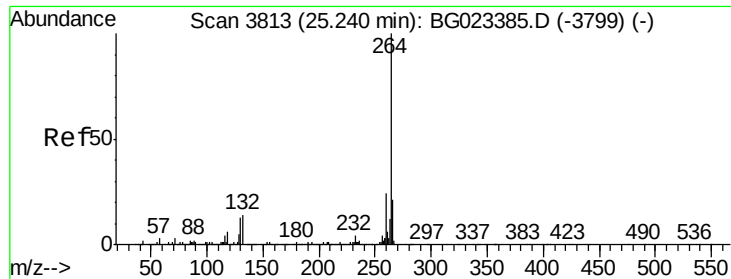
Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



Time-->

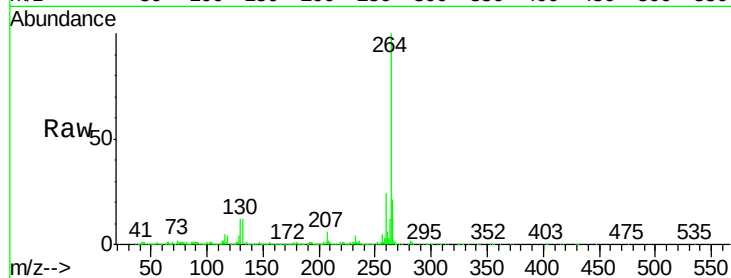




#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 25.23 min Scan# 3812  
Delta R.T. 0.01 min  
Lab File: BG023914.D  
Acq: 26 Aug 2016 5:44

Instrument :  
BNA\_G  
ClientSampleId :  
MW-05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.8  | 18.4  | 27.6  |
| 265     | 21.1  | 18.9  | 28.3  |



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

