

Data Path : Z:\HPCHEM1\BNA G\DATA\BG081716\  
 Data File : BG023746.D  
 Acq On : 17 Aug 2016 10:25  
 Operator : UM/SJ  
 Sample : H4449-03  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Aug 17 15:57:44 2016  
 Quant Method : Z:\HPCHEM1\BNA G\Methods\8270-BG080116.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Aug 01 19:22:14 2016  
 Response via : Initial Calibration

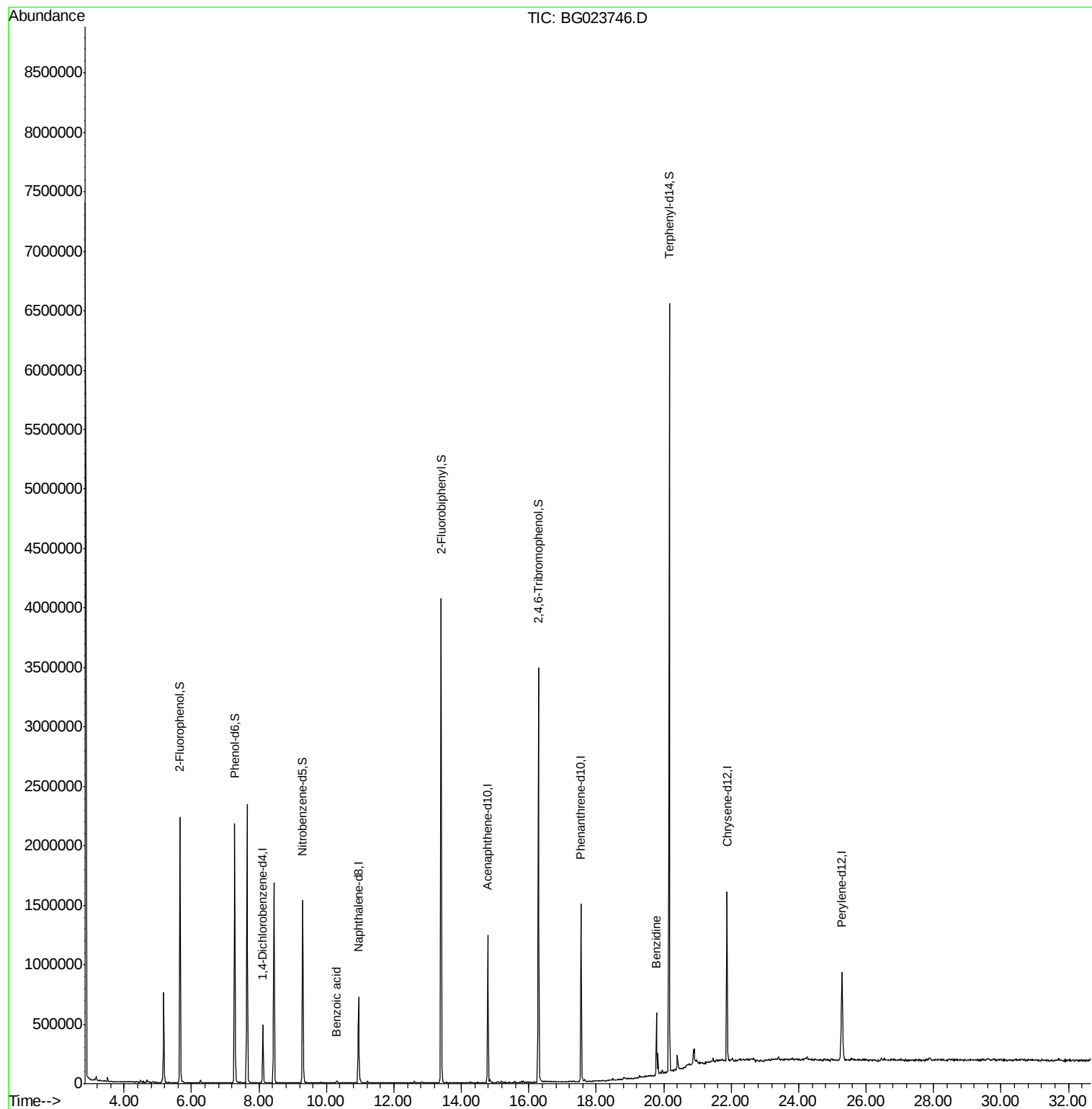
| Internal Standards          | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.12  | 152  | 132026   | 20.00     | ng    | 0.00     |
| 21) Naphthalene-d8          | 10.95 | 136  | 605301   | 20.00     | ng    | 0.00     |
| 38) Acenaphthene-d10        | 14.78 | 164  | 420785   | 20.00     | ng    | 0.00     |
| 63) Phenanthrene-d10        | 17.55 | 188  | 912041   | 20.00     | ng    | 0.00     |
| 75) Chrysene-d12            | 21.87 | 240  | 852303   | 20.00     | ng    | 0.00     |
| 86) Perylene-d12            | 25.28 | 264  | 841606   | 20.00     | ng    | 0.04     |
| System Monitoring Compounds |       |      |          |           |       |          |
| 5) 2-Fluorophenol           | 5.66  | 112  | 902045   | 115.01    | ng    | 0.00     |
| 7) Phenol-d6                | 7.28  | 99   | 1265601  | 103.60    | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.29  | 82   | 996100   | 81.81     | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 16.28 | 330  | 634610   | 103.11    | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 13.40 | 172  | 2023829  | 81.12     | ng    | 0.00     |
| 78) Terphenyl-d14           | 20.16 | 244  | 2493676  | 93.47     | ng    | 0.00     |
| Target Compounds            |       |      |          |           |       |          |
| 9) Benzaldehyde             | 7.28  | 77   | 2449     | Below Cal | #     | 8        |
| 32) Benzoic acid            | 10.29 | 122  | 400      | 6.48 ng   | #     | 1        |
| 73) Di-n-butylphthalate     | 18.49 | 149  | 12363    | Below Cal | #     | 95       |
| 74) Fluoranthene            | 19.60 | 202  | 3859     | Below Cal |       | 92       |
| 76) Benzidine               | 19.78 | 184  | 315842   | 13.33 ng  |       | 97       |
| 77) Pyrene                  | 19.97 | 202  | 3746     | Below Cal | #     | 85       |

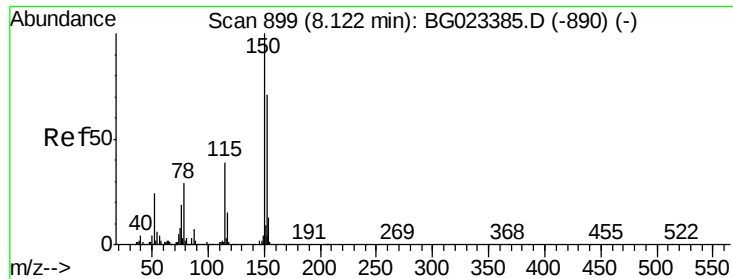
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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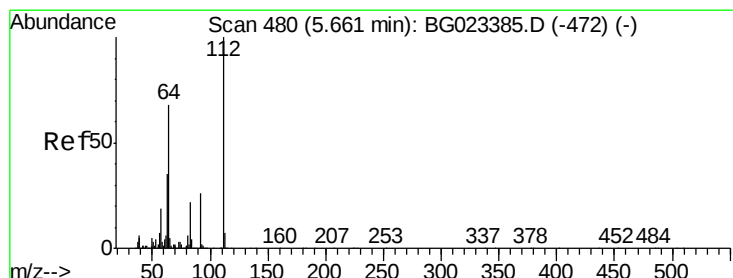
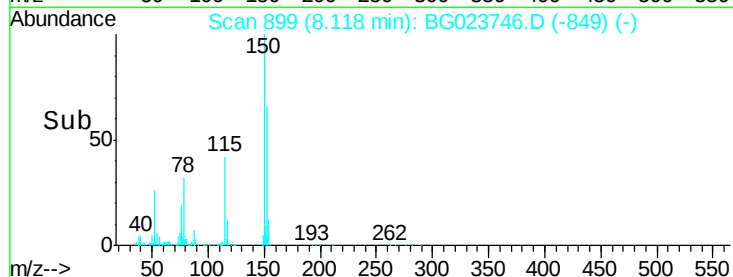
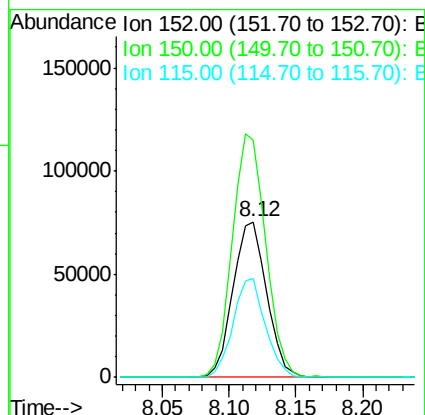
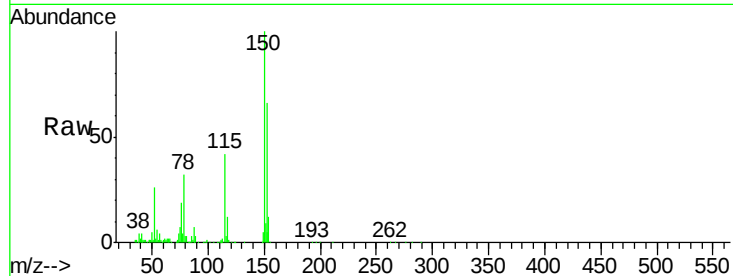


#1

1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 8.12 min Scan# 899  
Delta R.T. -0.00 min  
Lab File: BG023746.D  
Acq: 17 Aug 2016 10:25

Instrument :  
BNA\_G  
ClientSampleId :

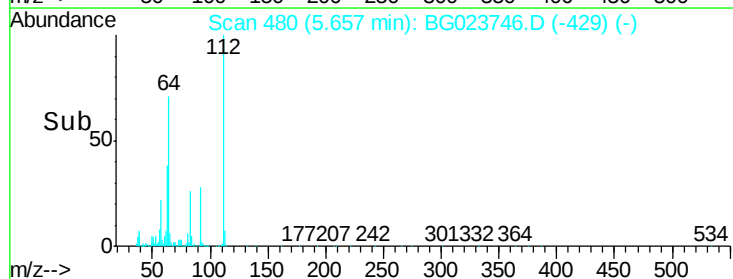
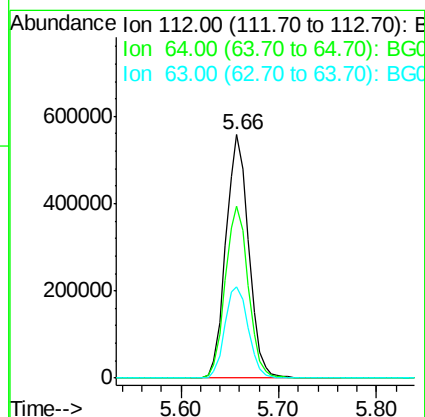
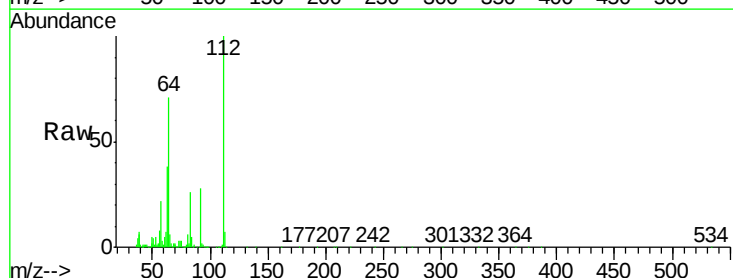
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 152.5 | 144.7 | 217.1 |
| 115     | 63.8  | 64.0  | 96.0  |

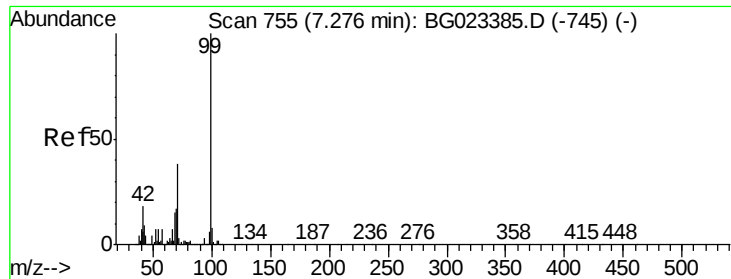


#5

2-Fluorophenol  
Concen: 115.01 ng  
RT: 5.66 min Scan# 480  
Delta R.T. -0.00 min  
Lab File: BG023746.D  
Acq: 17 Aug 2016 10:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 70.7  | 59.0  | 88.4  |
| 63      | 37.6  | 37.8  | 56.8  |





#7

Phenol-d6

Concen: 103.60 ng

RT: 7.28 min Scan# 756

Delta R.T. 0.00 min

Lab File: BG023746.D

Acq: 17 Aug 2016 10:25

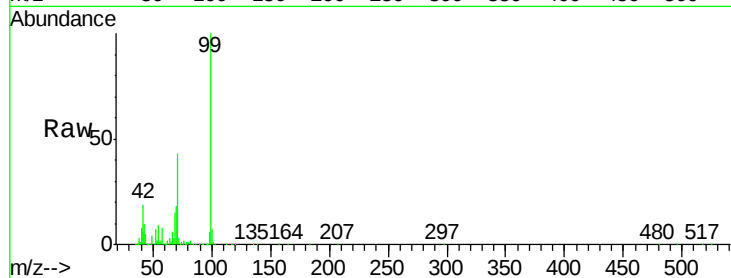
Instrument :

BNA\_G

ClientSampleId :

Tot Ion: 99 Resp: 1265601

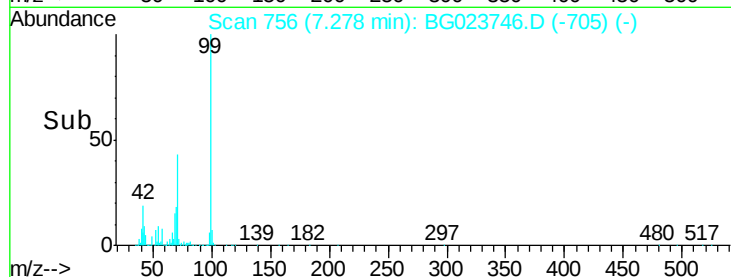
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 19.0  | 17.8  | 26.6  |
| 71  | 43.3  | 41.5  | 62.3  |



Abundance Ion 99.00 (98.70 to 99.70): BGC

Ion 42.00 (41.70 to 42.70): BGC

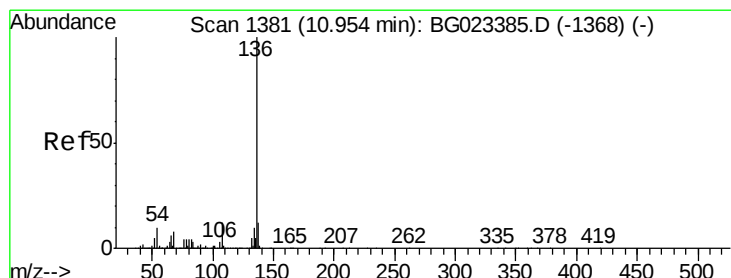
Ion 71.00 (70.70 to 71.70): BGC



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# 1381

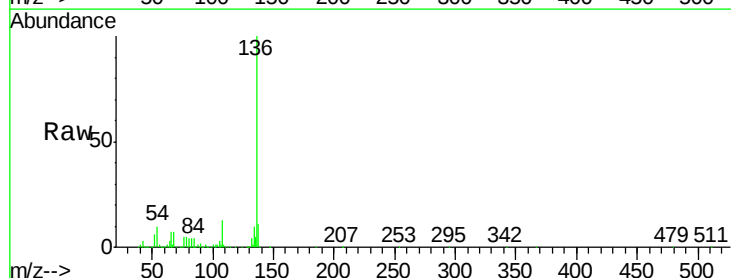
Delta R.T. -0.00 min

Lab File: BG023746.D

Acq: 17 Aug 2016 10:25

Tgt Ion: 136 Resp: 605301

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 136 | 100   |       |       |
| 137 | 11.3  | 9.6   | 14.4  |
| 54  | 9.7   | 7.3   | 10.9  |
| 68  | 7.3   | 5.3   | 7.9   |

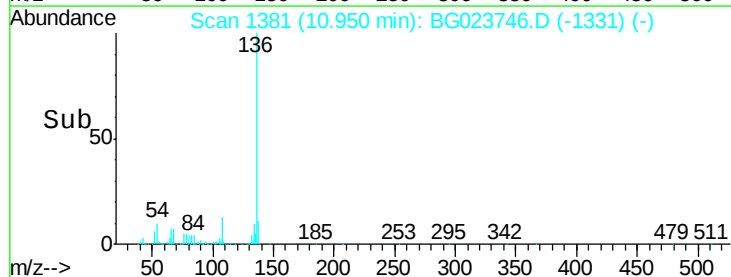


Abundance Ion 136.00 (135.70 to 136.70): BGC

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

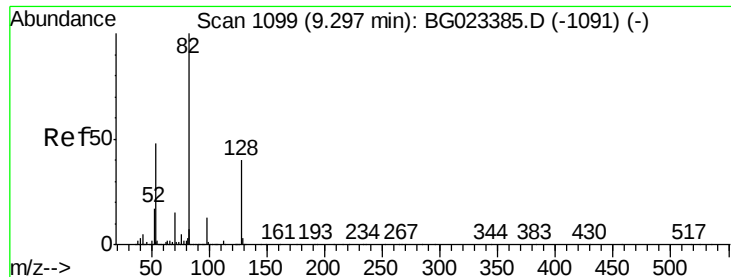


Abundance Ion 136.00 (135.70 to 136.70): BGC

Ion 137.00 (136.70 to 137.70): BGC

Ion 54.00 (53.70 to 54.70): BGC

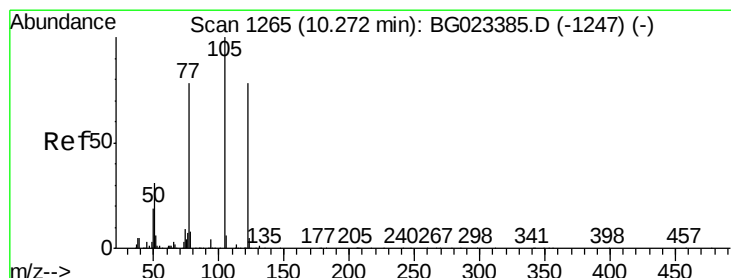
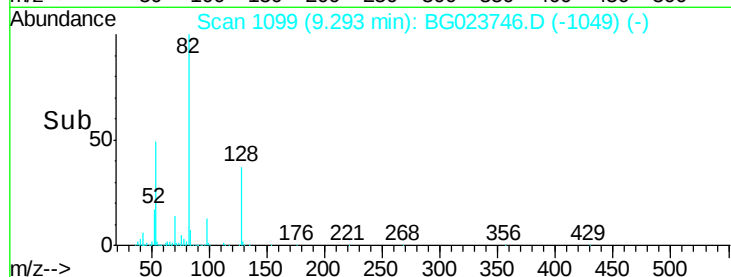
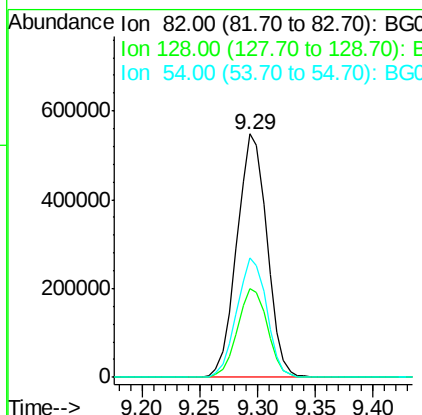
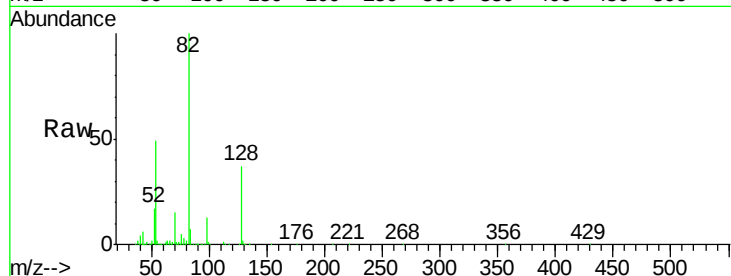
Ion 68.00 (67.70 to 68.70): BGC



#23  
 Nitrobenzene-d5  
 Concen: 81.81 ng  
 RT: 9.29 min Scan# 1099  
 Delta R.T. -0.00 min  
 Lab File: BG023746.D  
 Acq: 17 Aug 2016 10:25

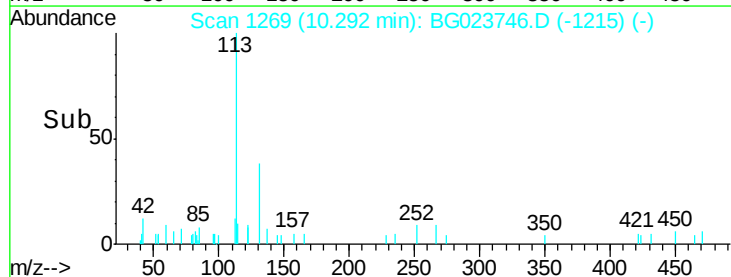
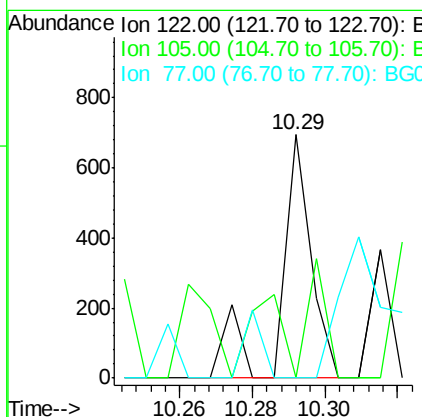
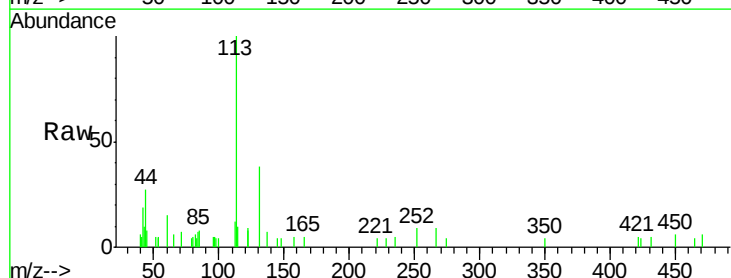
Instrument :  
 BNA\_G  
 ClientSampleId :

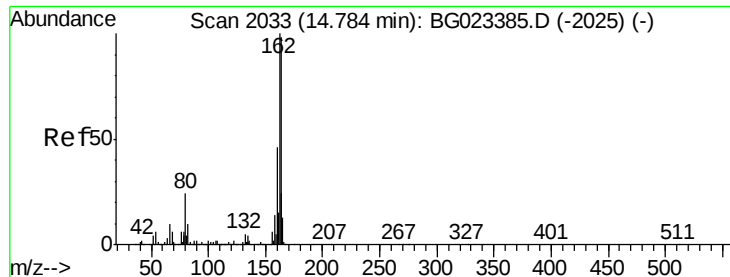
| Tot Ion   | 82    | Resp  | 996100 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 36.7  | 24.4  | 36.6#  |
| 54        | 48.8  | 41.4  | 62.0   |



#32  
 Benzoic acid  
 Concen: 6.48 ng  
 RT: 10.29 min Scan# 1269  
 Delta R.T. 0.02 min  
 Lab File: BG023746.D  
 Acq: 17 Aug 2016 10:25

| Tgt Ion   | 122   | Resp  | 400    |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 122       | 100   |       |        |
| 105       | 0.0   | 117.2 | 157.2# |
| 77        | 0.0   | 109.2 | 149.2# |





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 14.78 min Scan# 2033

Delta R.T. -0.00 min

Lab File: BG023746.D

Acq: 17 Aug 2016 10:25

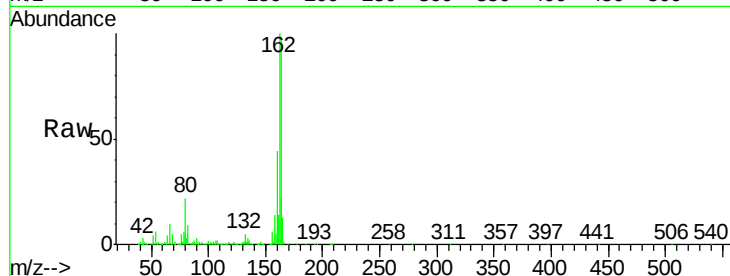
Instrument :

BNA\_G

ClientSampleId :

Tot Ion:164 Resp: 420785

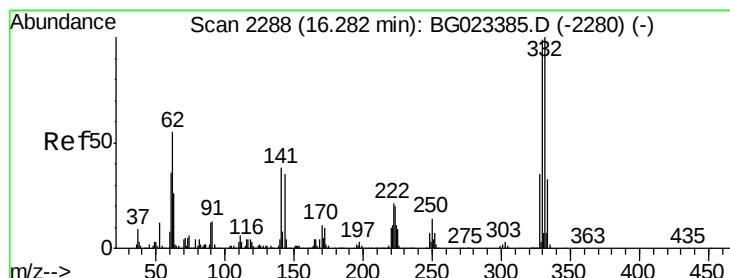
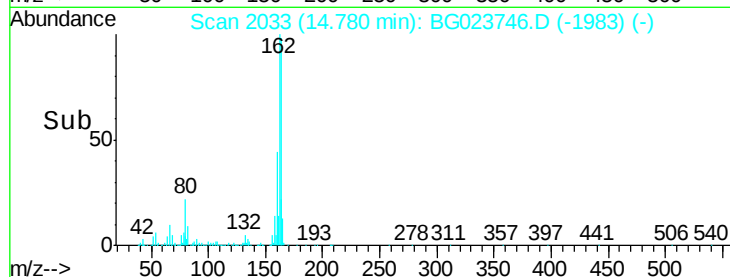
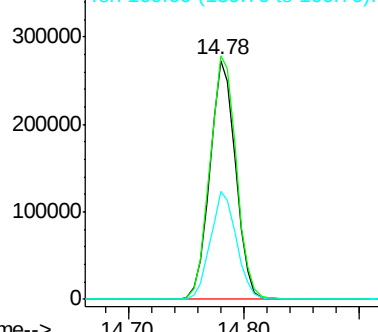
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 162 | 102.0 | 87.7  | 131.5 |
| 160 | 45.1  | 37.2  | 55.8  |



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: 103.11 ng

RT: 16.28 min Scan# 2289

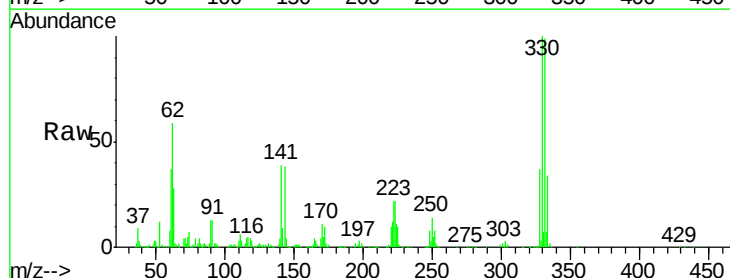
Delta R.T. 0.00 min

Lab File: BG023746.D

Acq: 17 Aug 2016 10:25

Tgt Ion:330 Resp: 634610

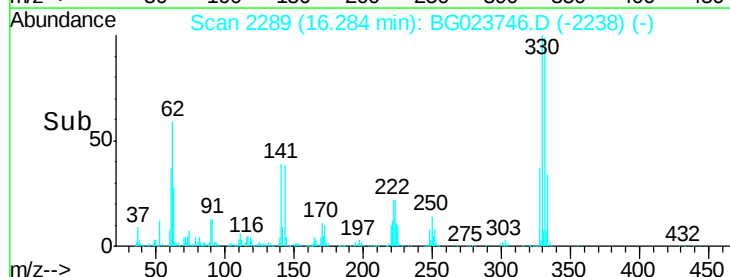
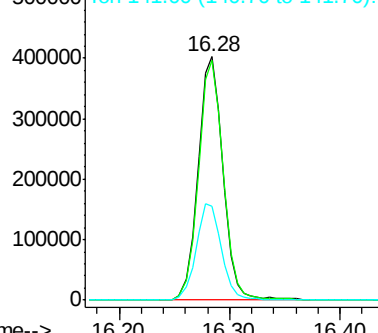
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 330 | 100   |       |       |
| 332 | 98.5  | 77.4  | 116.2 |
| 141 | 40.2  | 31.7  | 47.5  |

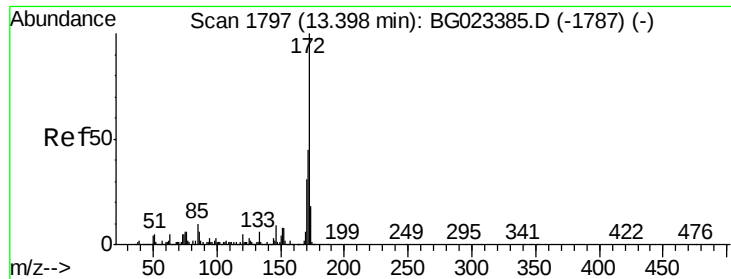


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

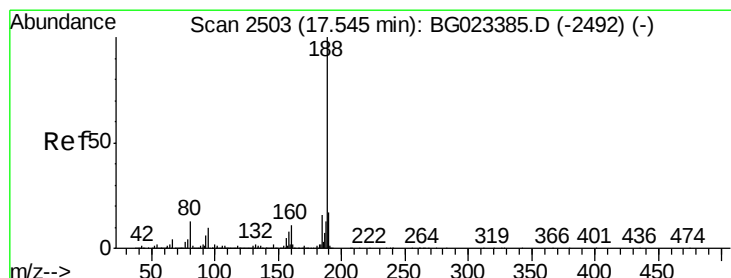
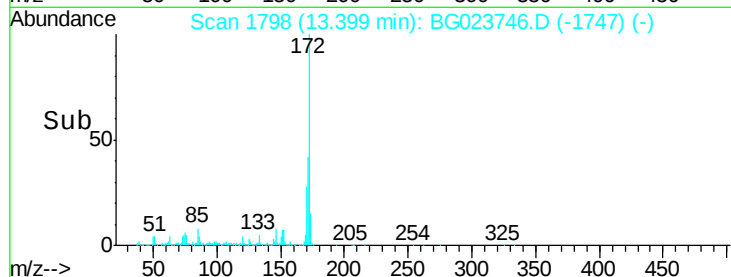
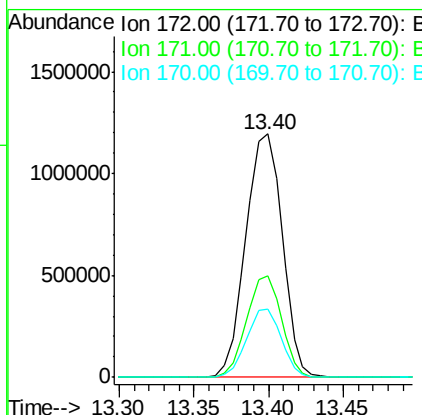
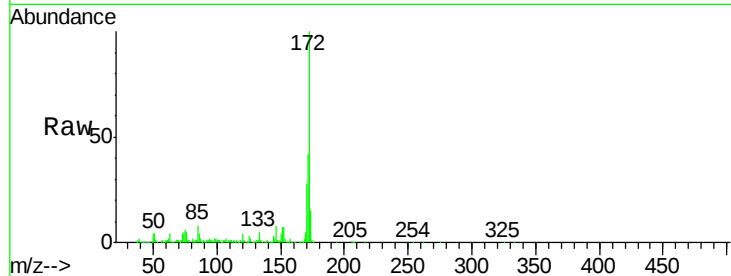




#44  
2-Fluorobiphenyl  
Concen: 81.12 ng  
RT: 13.40 min Scan# 1798  
Delta R.T. 0.00 min  
Lab File: BG023746.D  
Acq: 17 Aug 2016 10:25

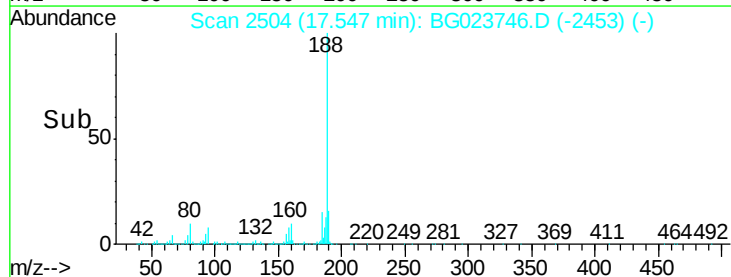
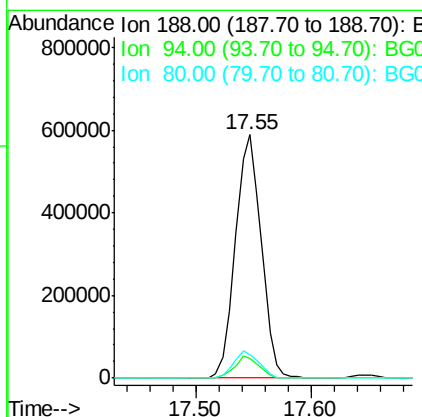
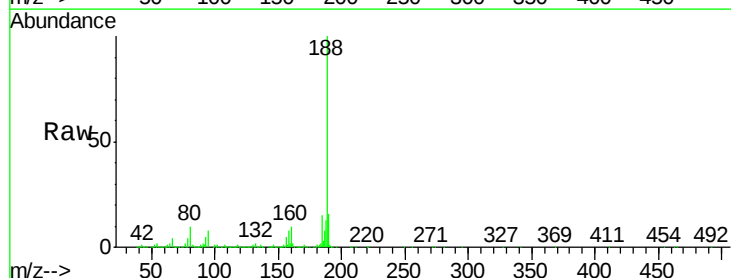
Instrument :  
BNA\_G  
ClientSampleId :

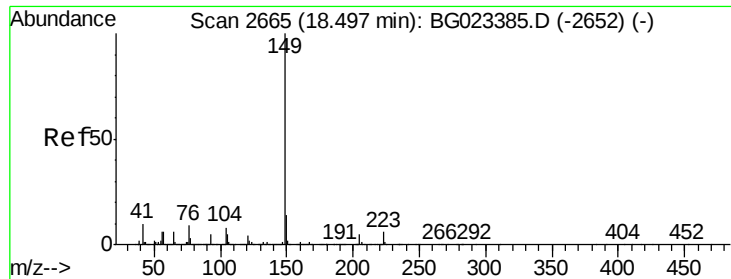
Tot Ion:172 Resp: 2023829  
Ion Ratio Lower Upper  
172 100  
171 41.6 31.6 47.4  
170 28.1 21.3 31.9



#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 17.55 min Scan# 2504  
Delta R.T. 0.00 min  
Lab File: BG023746.D  
Acq: 17 Aug 2016 10:25

Tgt Ion:188 Resp: 912041  
Ion Ratio Lower Upper  
188 100  
94 8.0 5.2 7.8#  
80 9.7 7.2 10.8

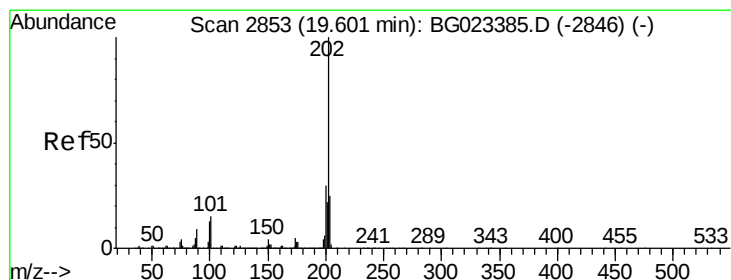
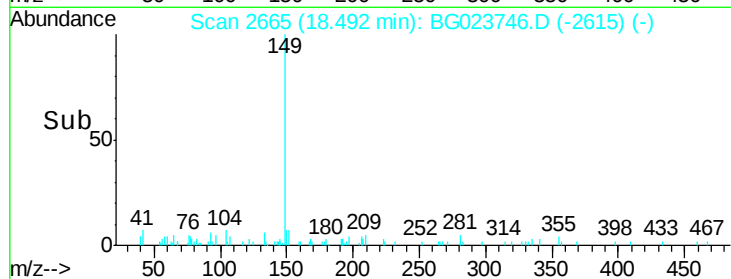
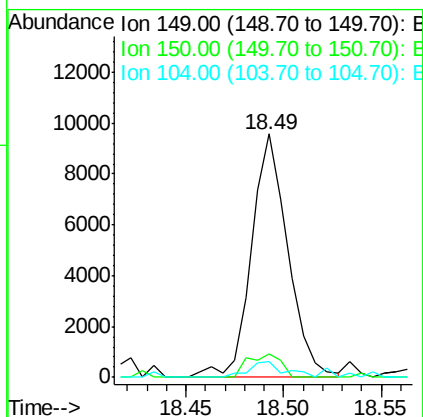
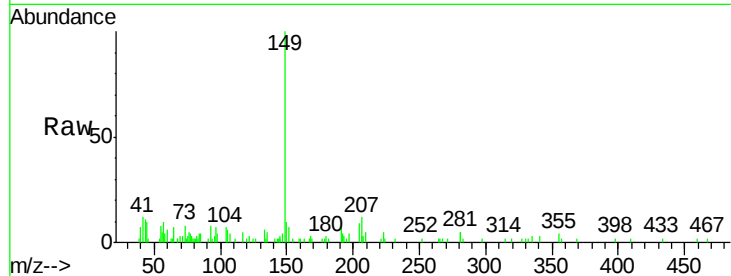




#73  
Di-n-butylphthalate  
Concen: Below Cal  
RT: 18.49 min Scan# 2665  
Delta R.T. -0.00 min  
Lab File: BG023746.D  
Acq: 17 Aug 2016 10:25

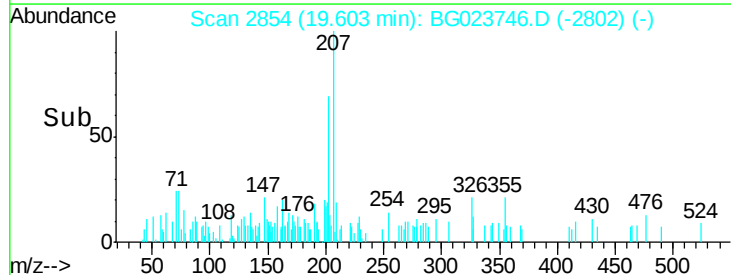
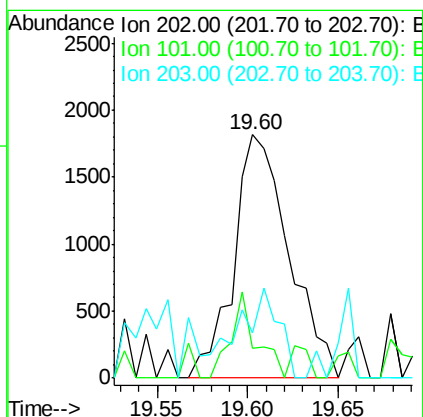
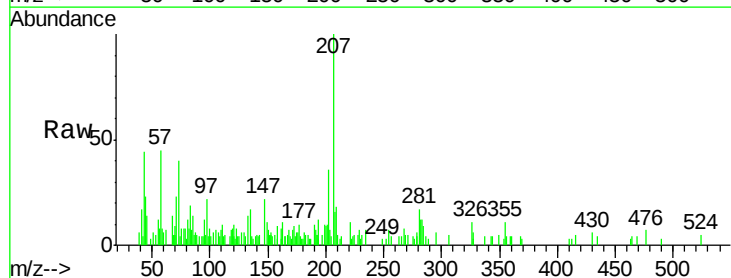
Instrument :  
BNA\_G  
ClientSampleId :

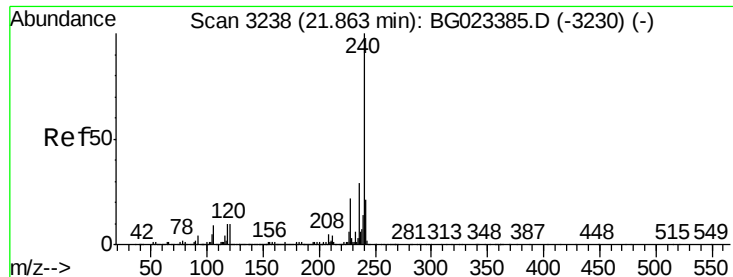
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 150     | 9.6   | 9.1   | 13.7  |
| 104     | 6.6   | 6.9   | 10.3  |



#74  
Fluoranthene  
Concen: Below Cal  
RT: 19.60 min Scan# 2854  
Delta R.T. 0.00 min  
Lab File: BG023746.D  
Acq: 17 Aug 2016 10:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 12.2  | 0.0   | 27.4  |
| 203     | 18.8  | 1.7   | 41.7  |





#75

Chrysene-d12

Concen: 20.00 ng

RT: 21.87 min Scan# 3240

Delta R.T. 0.01 min

Lab File: BG023746.D

Acq: 17 Aug 2016 10:25

Instrument :

BNA\_G

ClientSampleId :

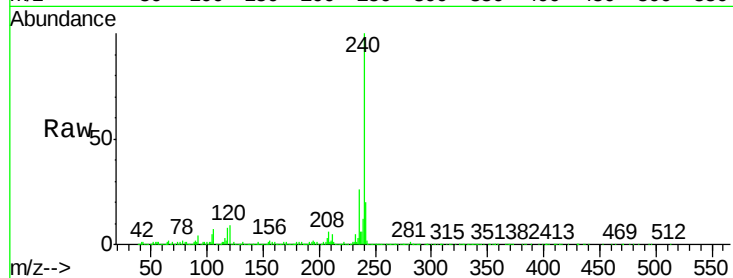
Tot Ion:240 Resp: 852303

Ion Ratio Lower Upper

240 100

120 9.4 4.1 6.1#

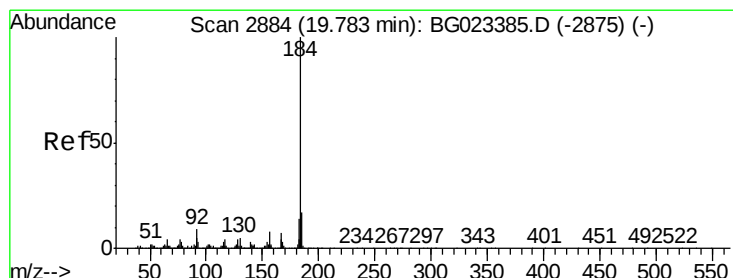
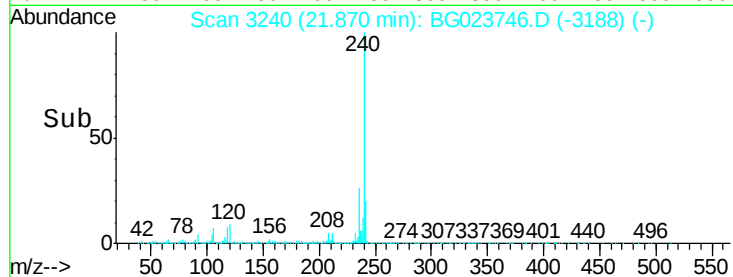
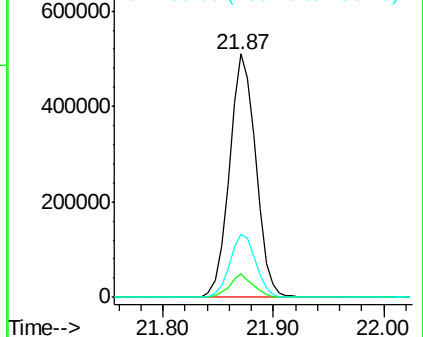
236 25.9 21.1 31.7



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



#76

Benzidine

Concen: 13.33 ng

RT: 19.78 min Scan# 2885

Delta R.T. 0.00 min

Lab File: BG023746.D

Acq: 17 Aug 2016 10:25

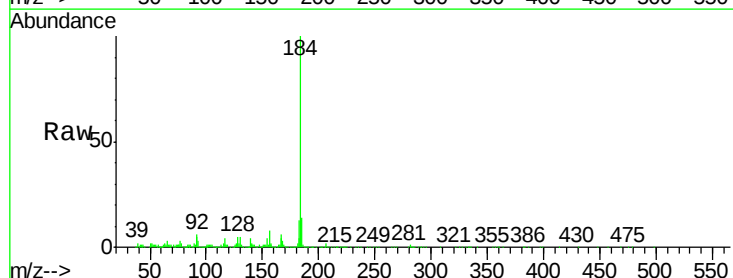
Tgt Ion:184 Resp: 315842

Ion Ratio Lower Upper

184 100

185 13.9 12.6 19.0

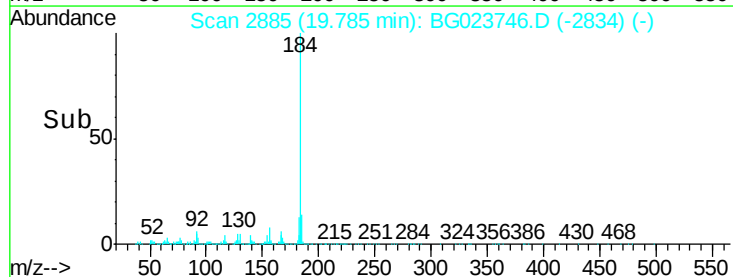
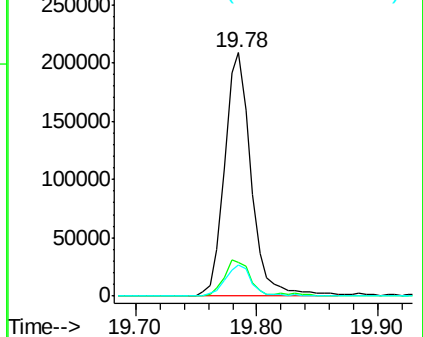
183 12.7 10.7 16.1

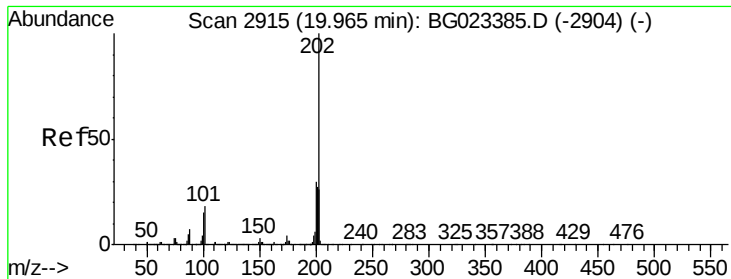


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E





#77

Pvrene

Concen: Below Cal

RT: 19.97 min Scan# 2917

Delta R.T. 0.01 min

Lab File: BG023746.D

Acq: 17 Aug 2016 10:25

Instrument :

BNA\_G

ClientSampleId :

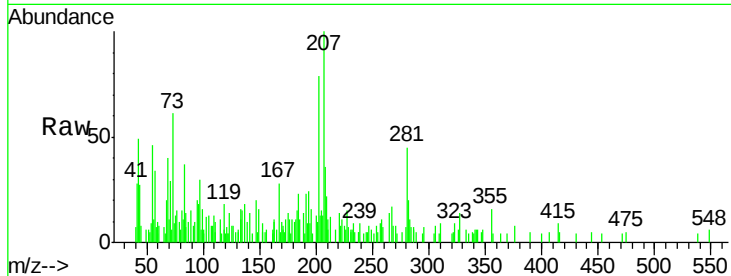
Tot Ion:202 Resp: 3746

Ion Ratio Lower Upper

202 100

200 16.9 21.2 31.8#

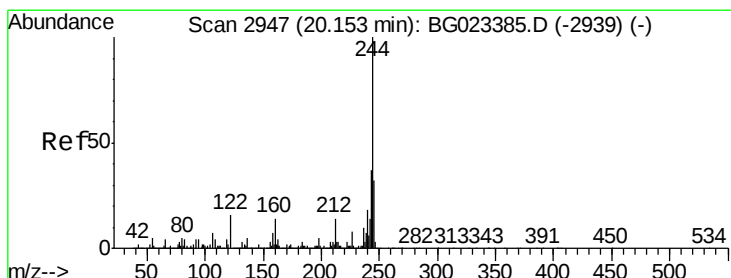
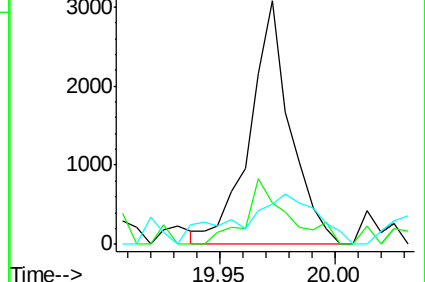
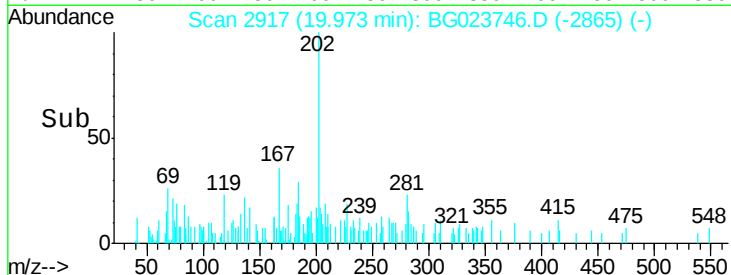
203 16.7 16.8 25.2#



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



#78

Terphenyl-d14

Concen: 93.47 ng

RT: 20.16 min Scan# 2949

Delta R.T. 0.01 min

Lab File: BG023746.D

Acq: 17 Aug 2016 10:25

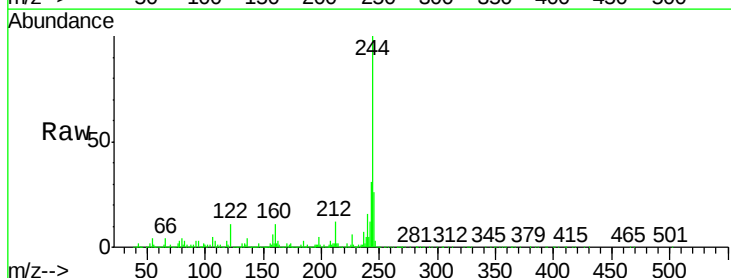
Tgt Ion:244 Resp: 2493676

Ion Ratio Lower Upper

244 100

212 11.9 10.8 16.2

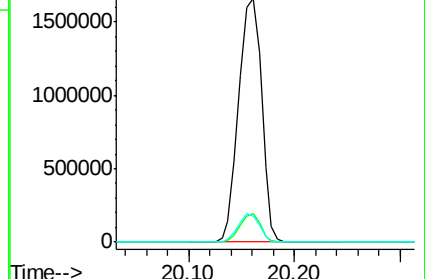
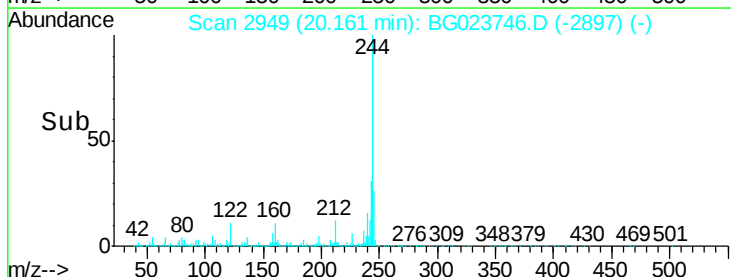
122 10.9 8.0 12.0

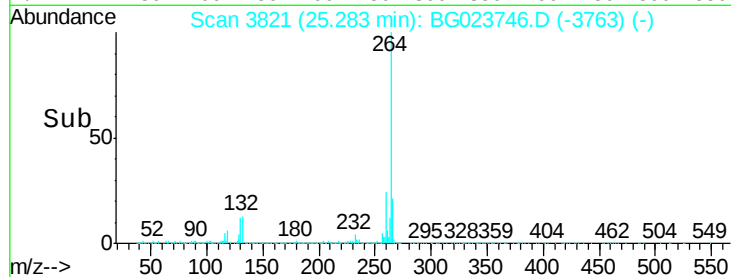
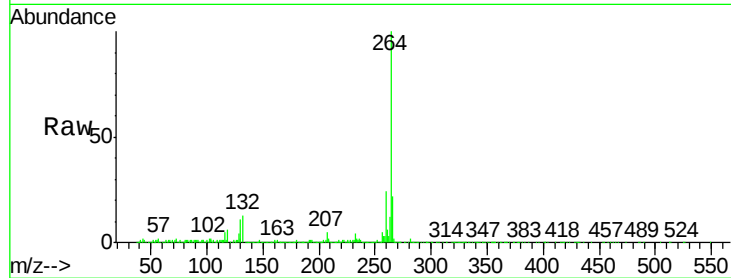
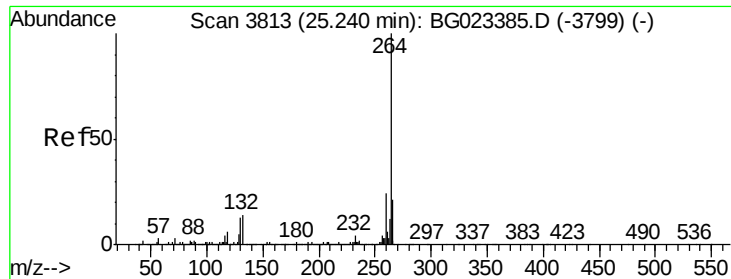


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 25.28 min Scan# 3821  
Delta R.T. 0.04 min  
Lab File: BG023746.D  
Acq: 17 Aug 2016 10:25

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.0  | 18.4  | 27.6  |
| 265     | 21.5  | 18.9  | 28.3  |

