Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG072316\
Data File : BG023238.D
Acq On : 23 Jul 2016 6:11
Operator : UM/SJ
Sample : H4131-30
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** D-20

Quant Time: Jul 25 01:31:57 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG070816.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 19 15:46:37 2016
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 8.14 | 152 | 127037 | 20.00 | ng | | 0.00 |
| 21) Naphthalene-d8 | 10.98 | 136 | 570071 | 20.00 | ng | | 0.00 |
| 38) Acenaphthene-d10 | 14.81 | 164 | 419170 | 20.00 | ng | | 0.00 |
| 63) Phenanthrene-d10 | 17.57 | 188 | 1035329 | 20.00 | ng | | 0.02 |
| 75) Chrysene-d12 | 21.90 | 240 | 1074794 | 20.00 | ng | | 0.02 |
| 86) Perylene-d12 | 25.30 | 264 | 1024365 | 20.00 | ng | | 0.03 |
| **System Monitoring Compounds** | | | | | | | |
| 5) 2-Fluorophenol | 5.68 | 112 | 904093 | 116.40 | ng | | 0.00 |
| 7) Phenol-d6 | 7.29 | 99 | 1286598 | 105.76 | ng | | 0.00 |
| 23) Nitrobenzene-d5 | 9.32 | 82 | 1060348 | 79.65 | ng | | 0.00 |
| 41) 2,4,6-Tribromophenol | 16.31 | 330 | 636498 | 84.49 | ng | | 0.00 |
| 44) 2-Fluorobiphenyl | 13.42 | 172 | 1956054 | 73.50 | ng | | 0.00 |
| 78) Terphenyl-d14 | 20.18 | 244 | 2869928 | 84.51 | ng | | 0.02 |
| **Target Compounds** | | | | | | | Qvalue |
| 31) Naphthalene | 11.03 | 128 | 185813 | 6.40 | ng | | 100 |
| 76) Benzidine | 19.81 | 184 | 2886870 | 93.69 | ng | # | 87 |

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

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG072316\
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Acq On : 23 Jul 2016 6:11
Operator : UM/SJ
Sample : H4131-30
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
BNA_G
**ClientSampleId :**
D-20

Quant Time: Jul 25 01:31:57 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG070816.M
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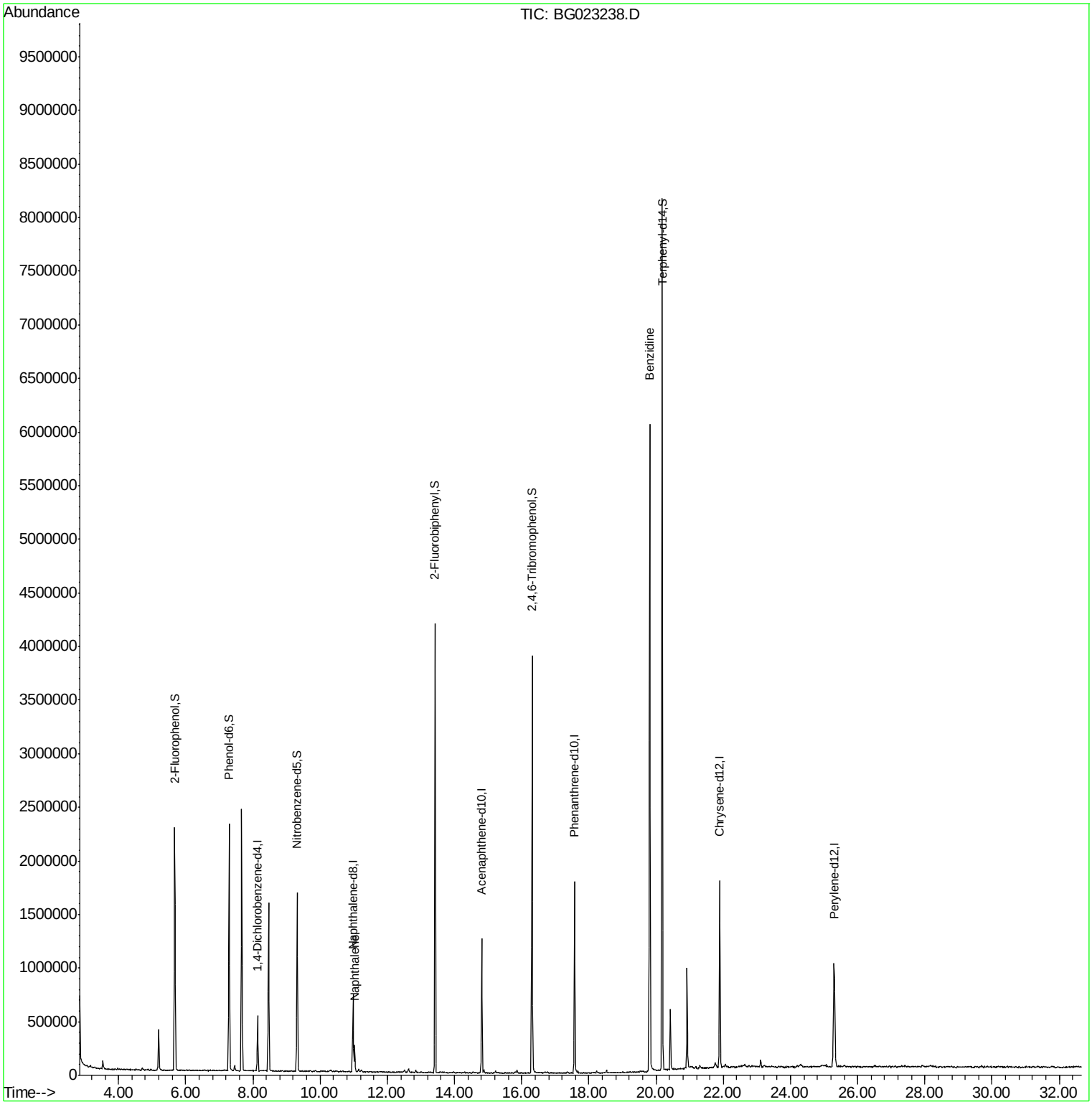
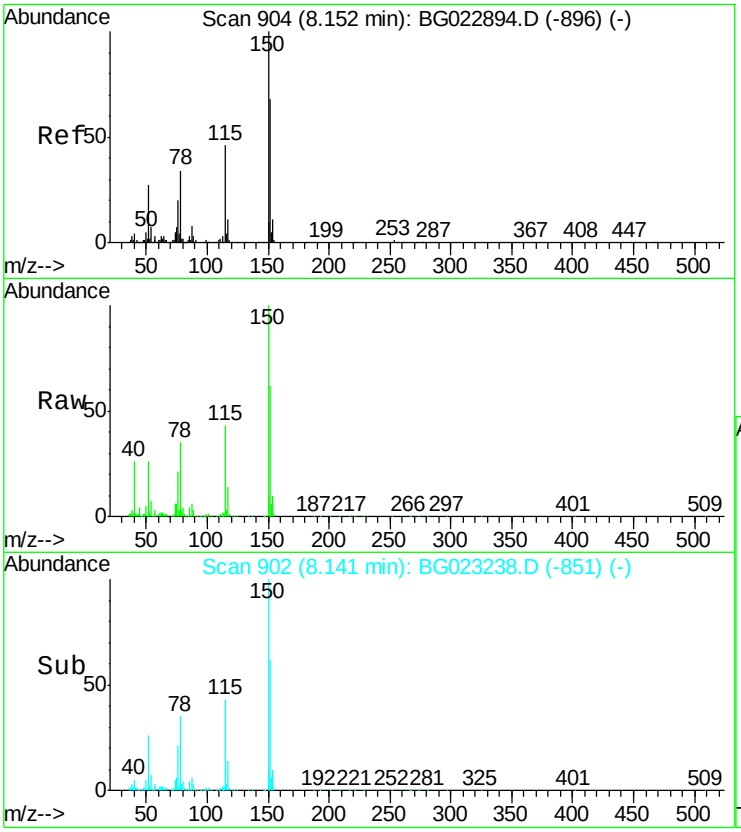


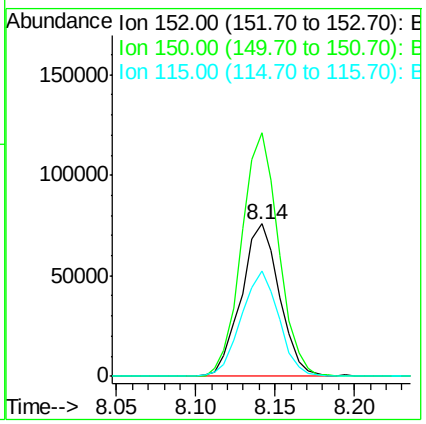


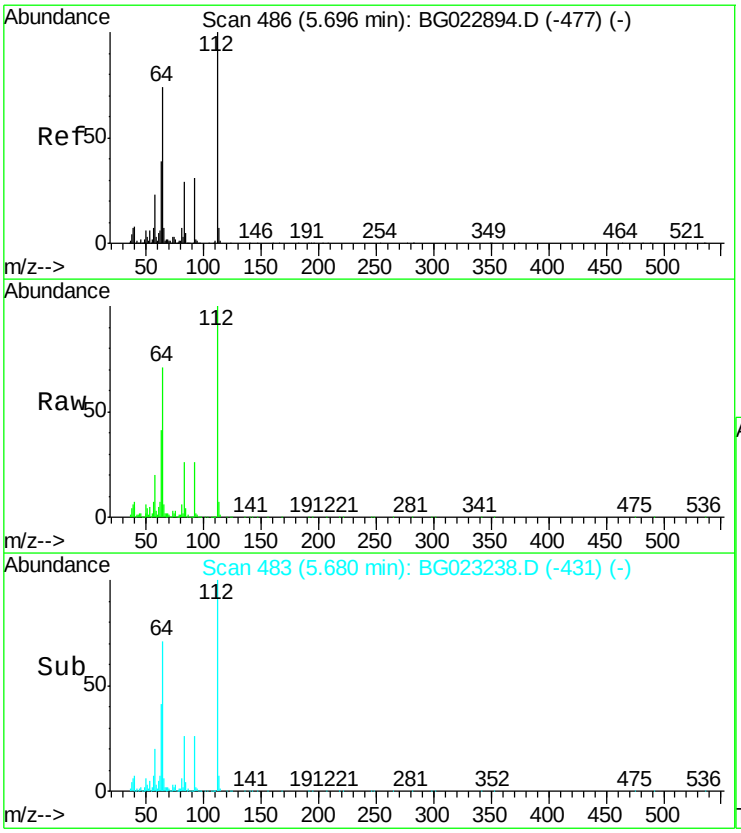

#1
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 8.14 min Scan# 902
Delta R.T. -0.00 min
Lab File: BG023238.D
Acq: 23 Jul 2016 6:11

**Instrument :**
BNA_G
**ClientSampleId :**
D-20

Tgt Ion:152 Resp: 127037

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 160.1 | 144.7 | 217.1 |
| 115 | 68.9 | 64.0 | 96.0 |

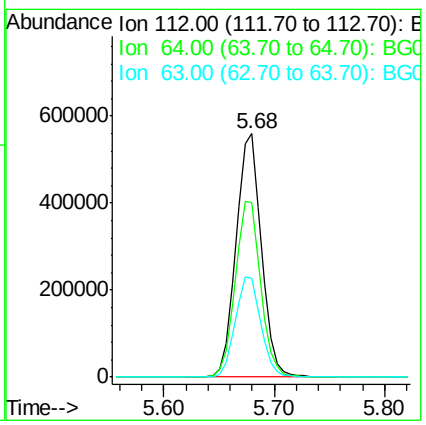


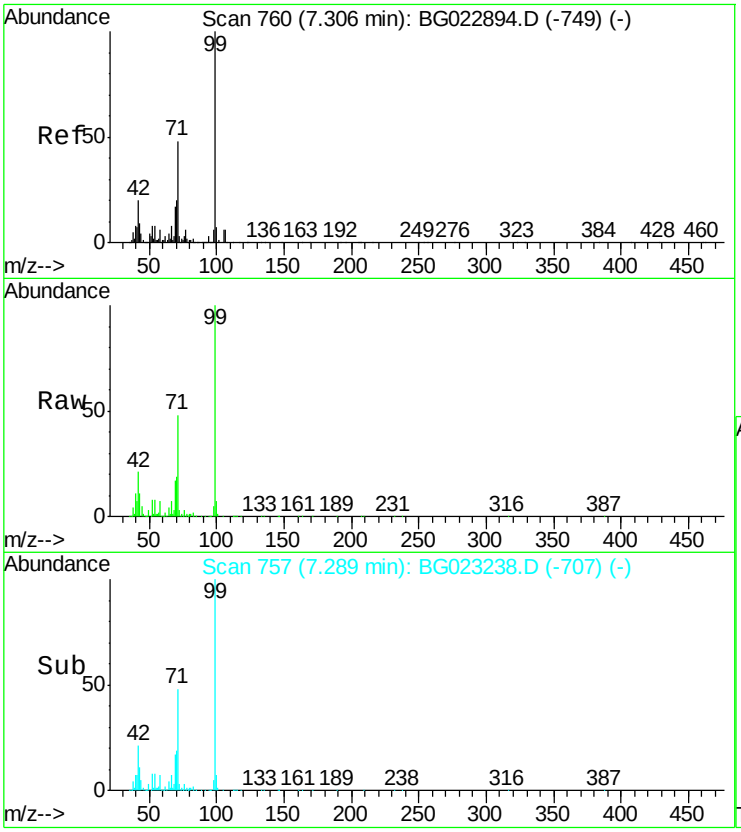




#5
2-Fluorophenol
Concen: 116.40 ng
RT: 5.68 min Scan# 483
Delta R.T. 0.00 min
Lab File: BG023238.D
Acq: 23 Jul 2016 6:11

Tgt Ion:112 Resp: 904093

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 71.4 | 59.0 | 88.4 |
| 63 | 40.6 | 37.8 | 56.8 |



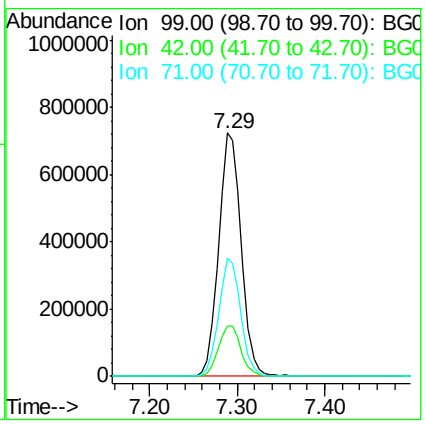


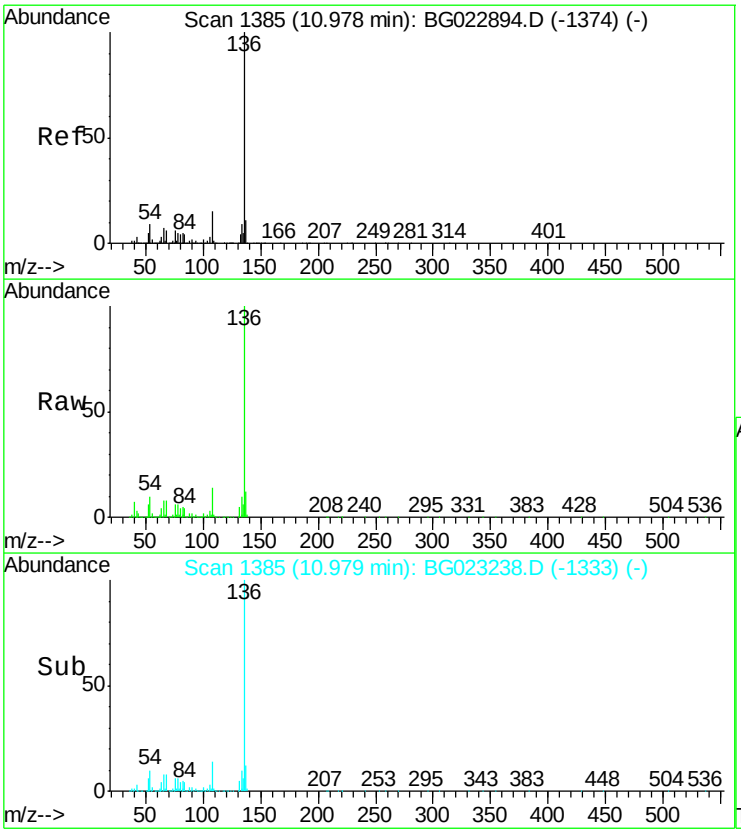

#7
Phenol-d6
Concen: 105.76 ng
RT: 7.29 min Scan# 757
Delta R.T. -0.01 min
Lab File: BG023238.D
Acq: 23 Jul 2016 6:11

**Instrument :**
BNA_G
**ClientSampleId :**
D-20

Tgt Ion: 99 Resp: 1286598

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 20.9 | 17.8 | 26.6 |
| 71 | 48.4 | 41.5 | 62.3 |

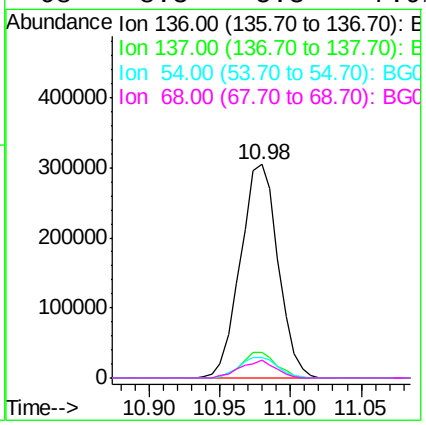


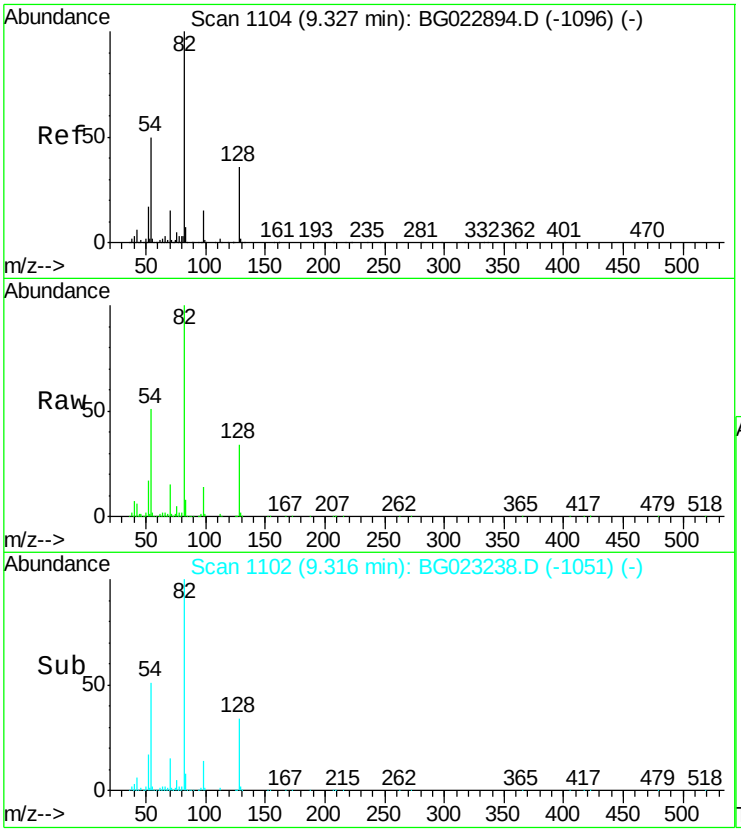




#21
Naphthalene-d8
Concen: 20.00 ng
RT: 10.98 min Scan# 1385
Delta R.T. 0.00 min
Lab File: BG023238.D
Acq: 23 Jul 2016 6:11

Tgt Ion:136 Resp: 570071

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.8 | 9.6 | 14.4 |
| 54 | 9.9 | 7.3 | 10.9 |
| 68 | 8.3 | 5.3 | 7.9# |



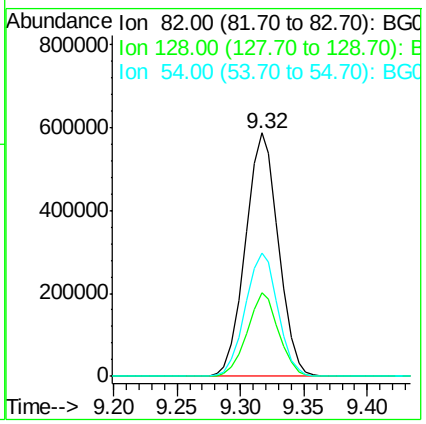


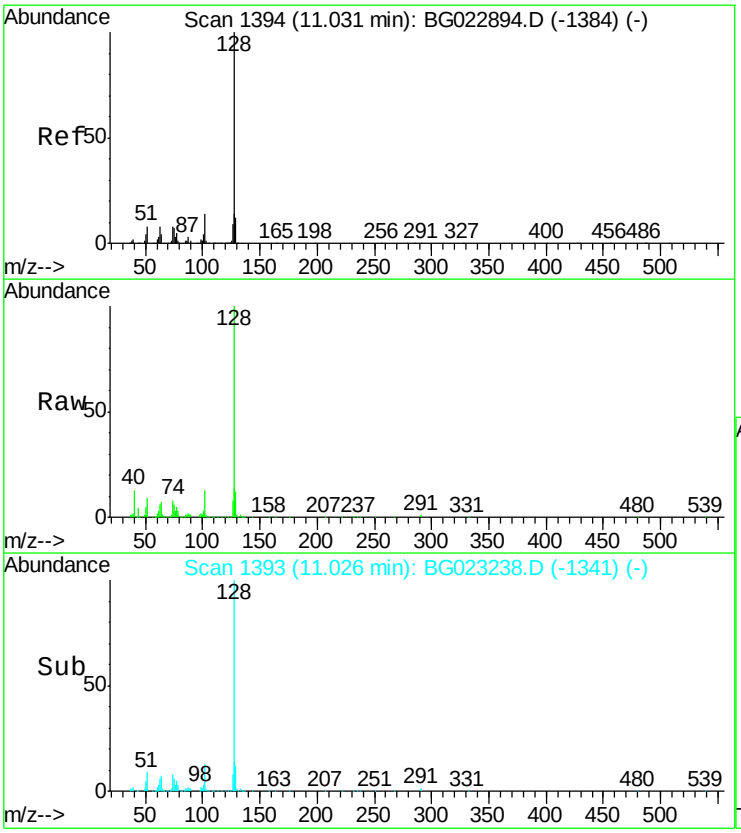

#23
Nitrobenzene-d5
Concen: 79.65 ng
RT: 9.32 min Scan# 1102
Delta R.T. -0.00 min
Lab File: BG023238.D
Acq: 23 Jul 2016 6:11

**Instrument :**
BNA_G
**ClientSampleId :**
D-20

Tgt Ion: 82 Resp: 1060348

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 34.3 | 24.4 | 36.6 |
| 54 | 50.6 | 41.4 | 62.0 |

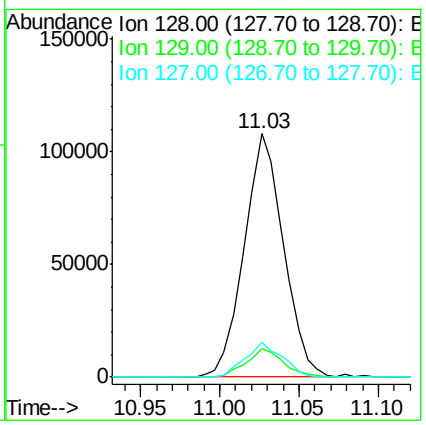


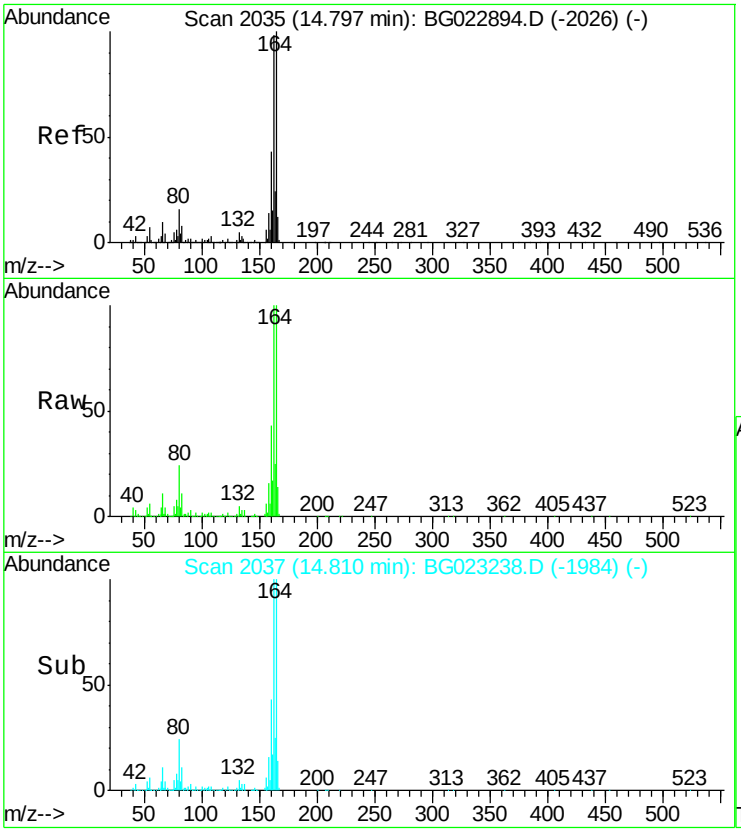




#31
Naphthalene
Concen: 6.40 ng
RT: 11.03 min Scan# 1393
Delta R.T. 0.00 min
Lab File: BG023238.D
Acq: 23 Jul 2016 6:11

Tgt Ion:128 Resp: 185813

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.8 | 9.4 | 14.0 |
| 127 | 14.3 | 11.3 | 16.9 |



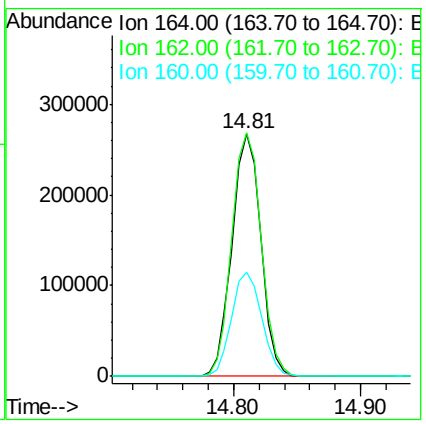


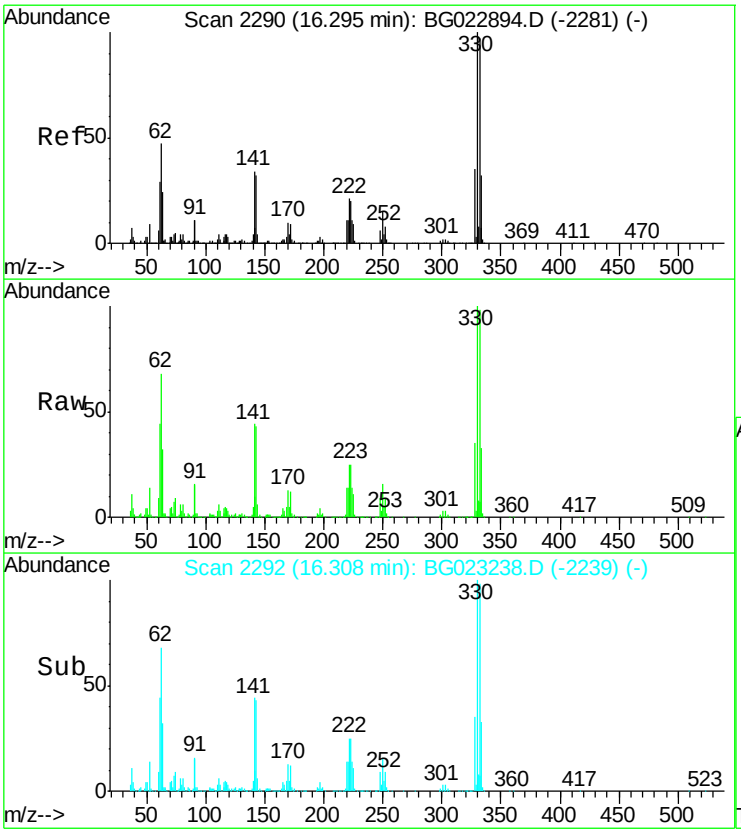

#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 14.81 min Scan# 2037
Delta R.T. 0.01 min
Lab File: BG023238.D
Acq: 23 Jul 2016 6:11

**Instrument :**
BNA_G
**ClientSampleId :**
D-20

Tgt Ion:164 Resp: 419170

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 100.5 | 87.7 | 131.5 |
| 160 | 43.0 | 37.2 | 55.8 |

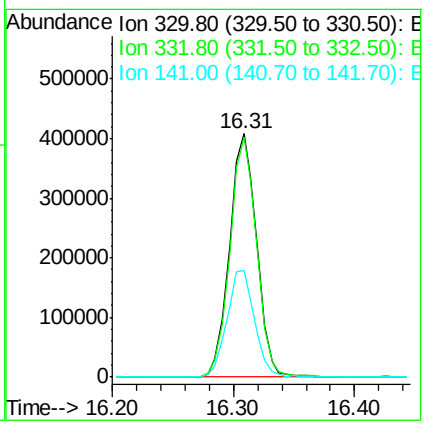


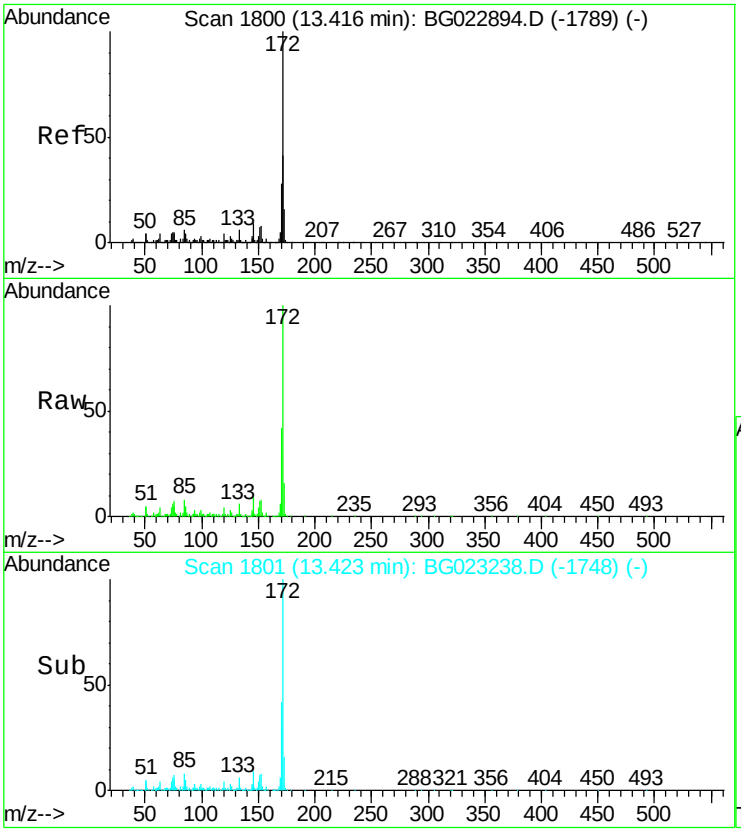




#41
2,4,6-Tribromophenol
Concen: 84.49 ng
RT: 16.31 min Scan# 2292
Delta R.T. 0.01 min
Lab File: BG023238.D
Acq: 23 Jul 2016 6:11

Tgt Ion:330 Resp: 636498

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 97.4 | 77.4 | 116.2 |
| 141 | 44.8 | 31.7 | 47.5 |



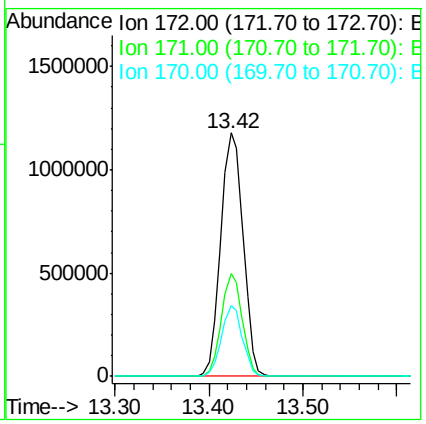


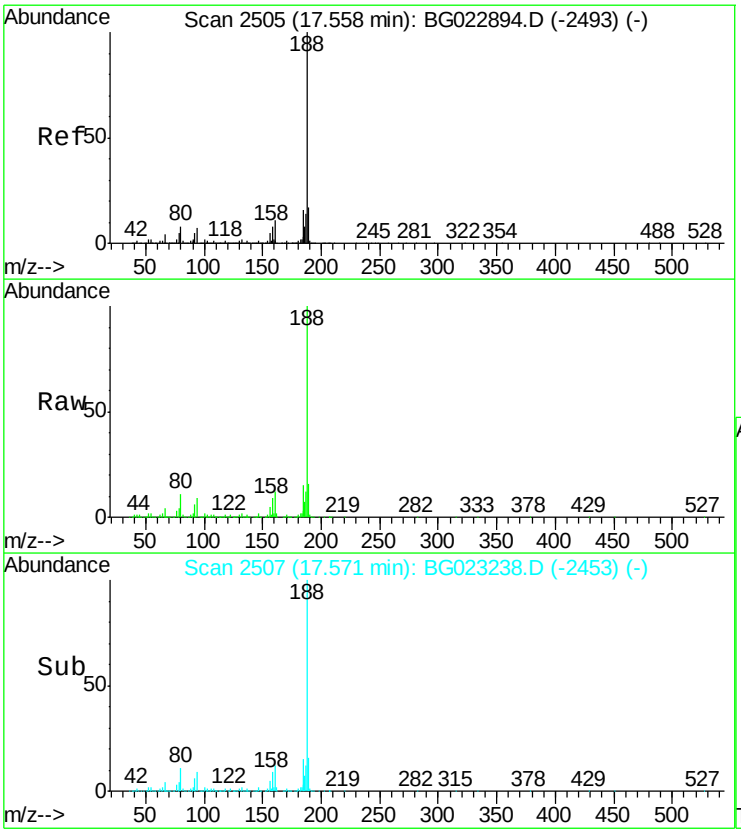

#44
2-Fluorobiphenyl
Concen: 73.50 ng
RT: 13.42 min Scan# 1801
Delta R.T. 0.01 min
Lab File: BG023238.D
Acq: 23 Jul 2016 6:11

**Instrument :**
BNA_G
**ClientSampleId :**
D-20

Tgt Ion:172 Resp: 1956054

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 42.0 | 31.6 | 47.4 |
| 170 | 29.1 | 21.3 | 31.9 |

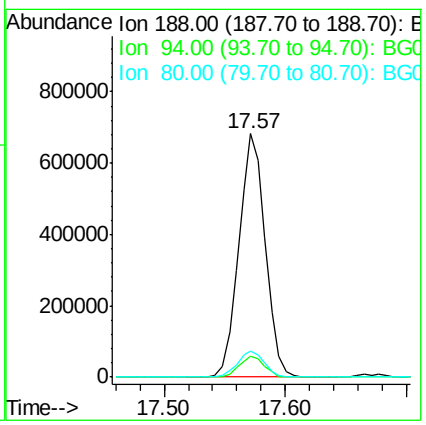


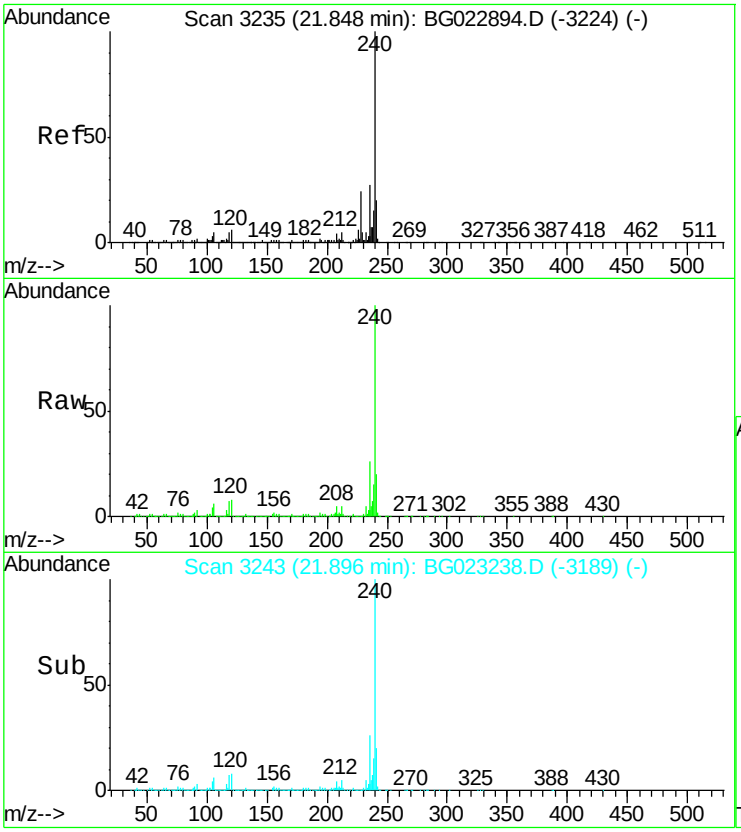




#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 17.57 min Scan# 2507
Delta R.T. 0.02 min
Lab File: BG023238.D
Acq: 23 Jul 2016 6:11

Tgt Ion:188 Resp: 1035329

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 8.7 | 5.2 | 7.8# |
| 80 | 10.7 | 7.2 | 10.8 |



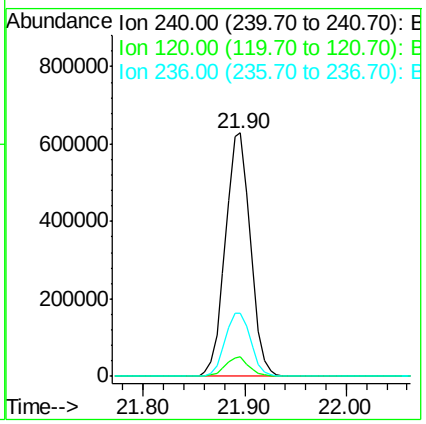


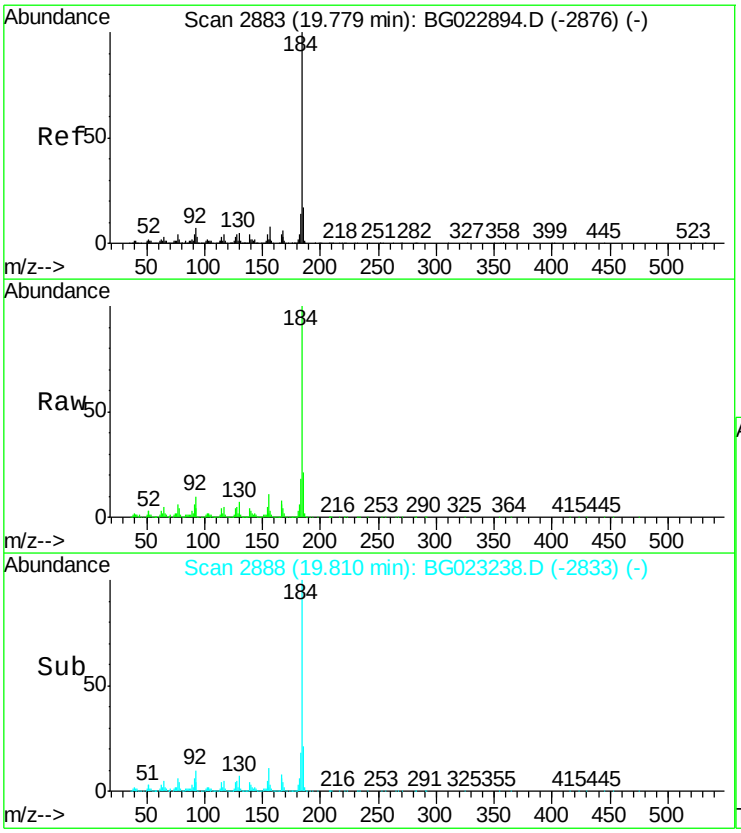

#75
Chrysene-d12
Concen: 20.00 ng
RT: 21.90 min Scan# 3243
Delta R.T. 0.02 min
Lab File: BG023238.D
Acq: 23 Jul 2016 6:11

**Instrument :**
BNA_G
**ClientSampleId :**
D-20

Tgt Ion:240 Resp: 1074794

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 8.1 | 4.1 | 6.1# |
| 236 | 26.1 | 21.1 | 31.7 |

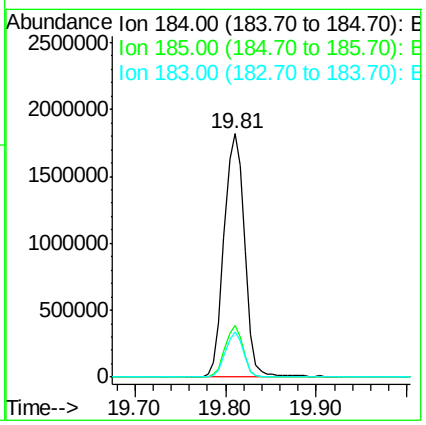


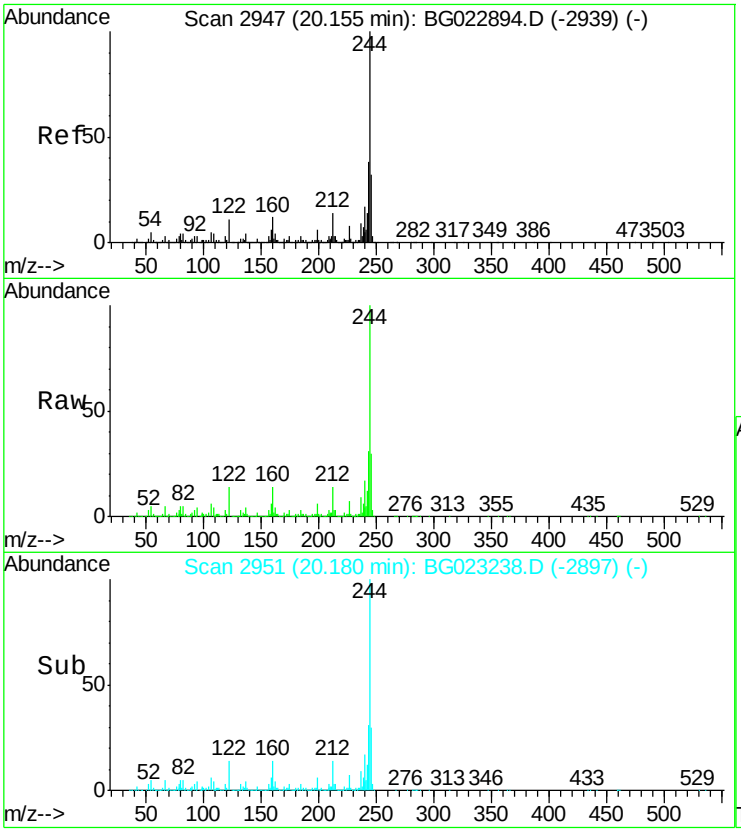




#76
Benzidine
Concen: 93.69 ng
RT: 19.81 min Scan# 2888
Delta R.T. 0.02 min
Lab File: BG023238.D
Acq: 23 Jul 2016 6:11

Tgt Ion:184 Resp: 2886870

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 185 | 21.5 | 12.6 | 19.0# |
| 183 | 18.4 | 10.7 | 16.1# |



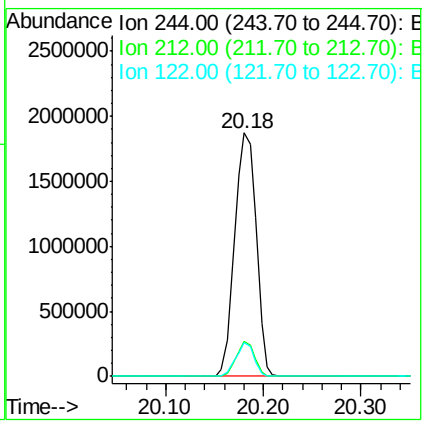


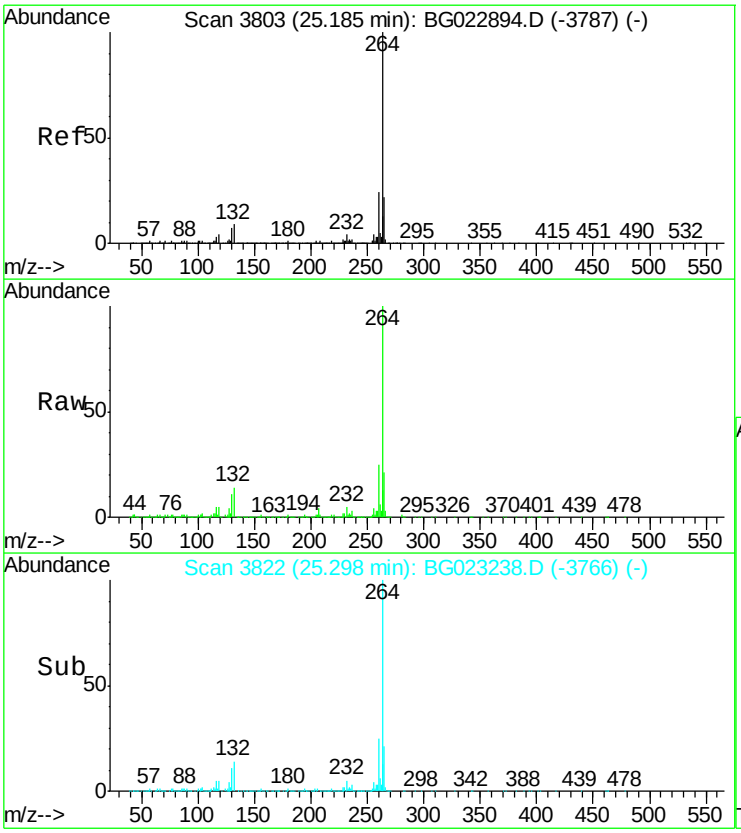

#78
Terphenyl-d14
Concen: 84.51 ng
RT: 20.18 min Scan# 2951
Delta R.T. 0.02 min
Lab File: BG023238.D
Acq: 23 Jul 2016 6:11

**Instrument :**
BNA_G
**ClientSampleId :**
D-20

Tgt Ion:244 Resp: 2869928

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 14.3 | 10.8 | 16.2 |
| 122 | 13.6 | 8.0 | 12.0# |




#86
Perylene-d12
Concen: 20.00 ng
RT: 25.30 min Scan# 3822
Delta R.T. 0.03 min
Lab File: BG023238.D
Acq: 23 Jul 2016 6:11

Tgt Ion:264 Resp: 1024365

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 24.5 | 18.4 | 27.6 |
| 265 | 21.1 | 18.9 | 28.3 |