Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG070517\
Data File : BG027864.D
Acq On : 6 Jul 2017 1:44
Operator : SJ/JU
Sample : I4053-15
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** CL-02-070317-E

Quant Time: Jul 06 03:52:19 2017
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG062817.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 28 19:26:37 2017
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 8.45 | 152 | 27744 | 20.00 | ng | -0.03 |
| 21) Naphthalene-d8 | 11.27 | 136 | 130060 | 20.00 | ng | -0.02 |
| 38) Acenaphthene-d10 | 15.04 | 164 | 85292 | 20.00 | ng | -0.02 |
| 63) Phenanthrene-d10 | 17.79 | 188 | 230400 | 20.00 | ng | -0.03 |
| 75) Chrysene-d12 | 22.14 | 240 | 245809 | 20.00 | ng | -0.03 |
| 86) Perylene-d12 | 25.72 | 264 | 234441 | 20.00 | ng | -0.06 |
| **System Monitoring Compounds** | | | | | | |
| 5) 2-Fluorophenol | 6.03 | 112 | 193692 | 107.51 | ng | -0.03 |
| 7) Phenol-d6 | 7.59 | 99 | 256603 | 93.23 | ng | -0.02 |
| 23) Nitrobenzene-d5 | 9.62 | 82 | 196390 | 84.17 | ng | -0.02 |
| 41) 2,4,6-Tribromophenol | 16.53 | 330 | 233498 | 199.59 | ng | -0.02 |
| 44) 2-Fluorobiphenyl | 13.66 | 172 | 543052 | 90.93 | ng | -0.03 |
| 78) Terphenyl-d14 | 20.37 | 244 | 1182107 | 112.74 | ng | -0.02 |
| **Target Compounds** | | | | | | Qvalue |
| 31) Naphthalene | 11.32 | 128 | 27781 | 4.017 | ng | 96 |
| 76) Benzidine | 20.04 | 184 | 32696 | 8.431 | ng | 96 |

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

Quantitation Report (QT Reviewed)

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Acq On : 6 Jul 2017 1:44
Operator : SJ/JU
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Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_G
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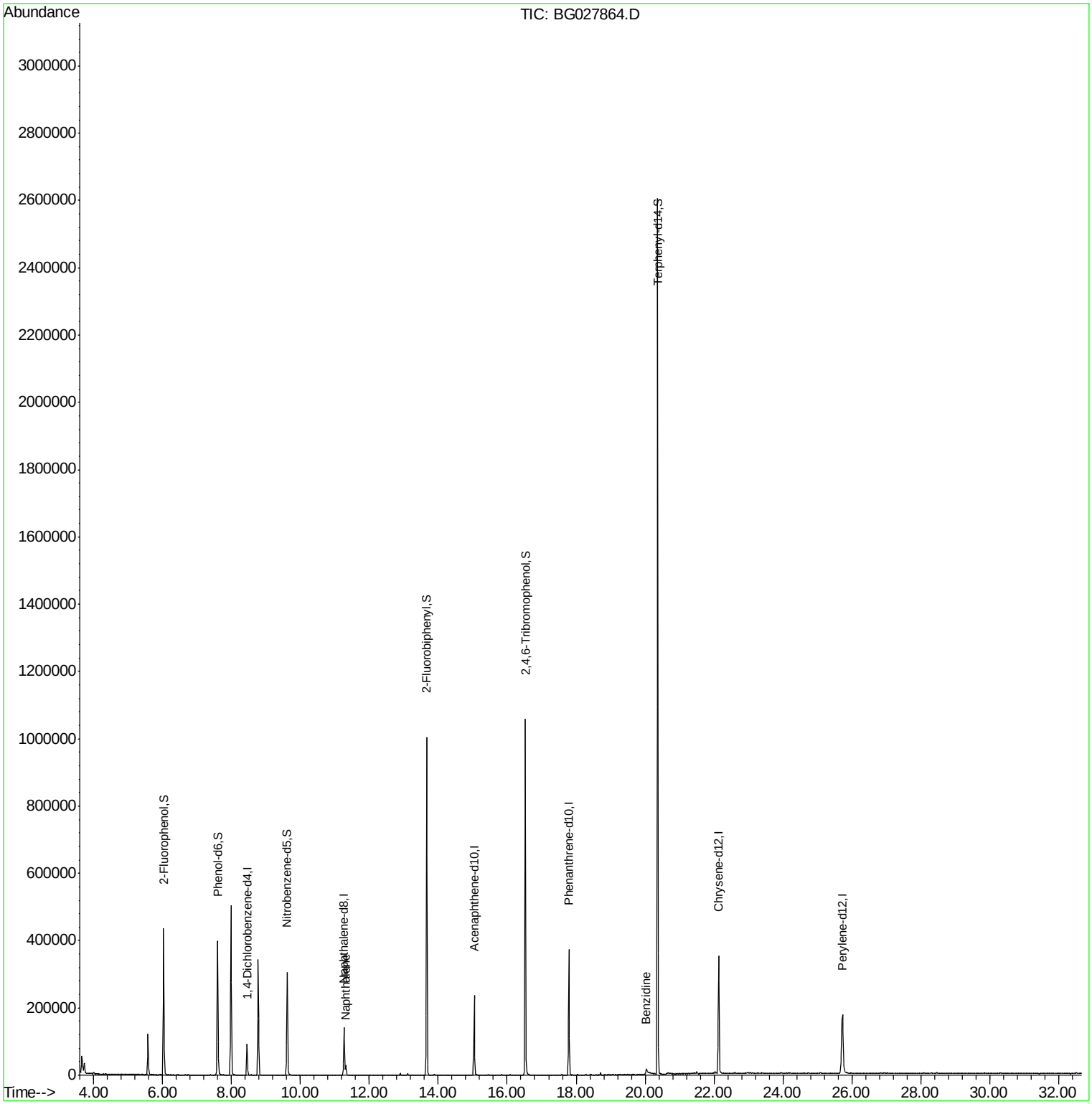
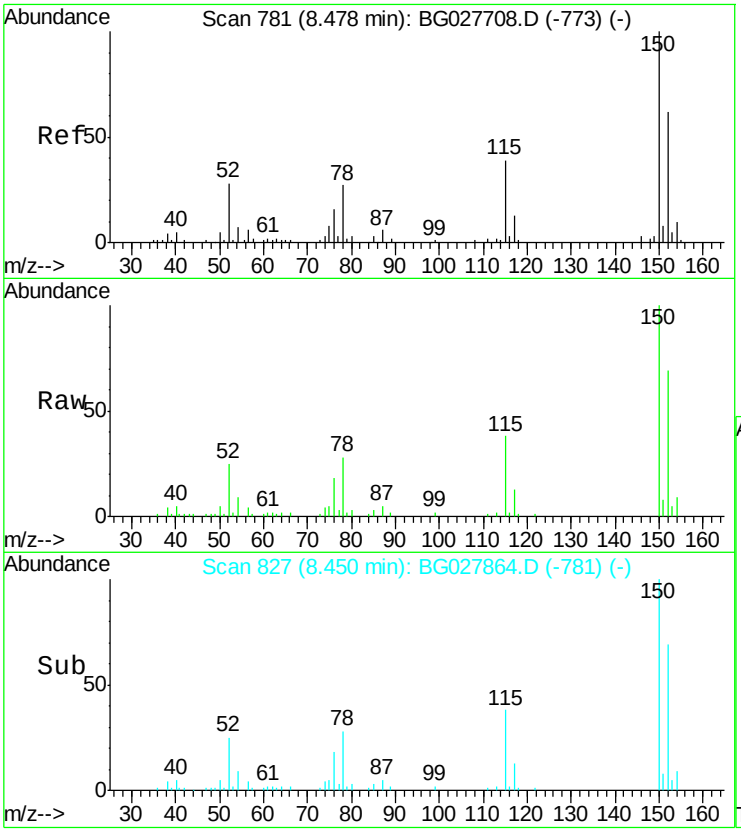
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 28 19:26:37 2017
Response via : Initial Calibration



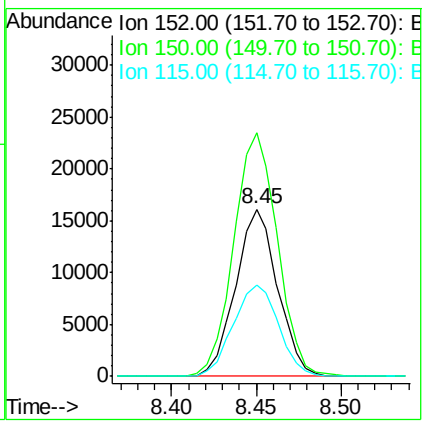


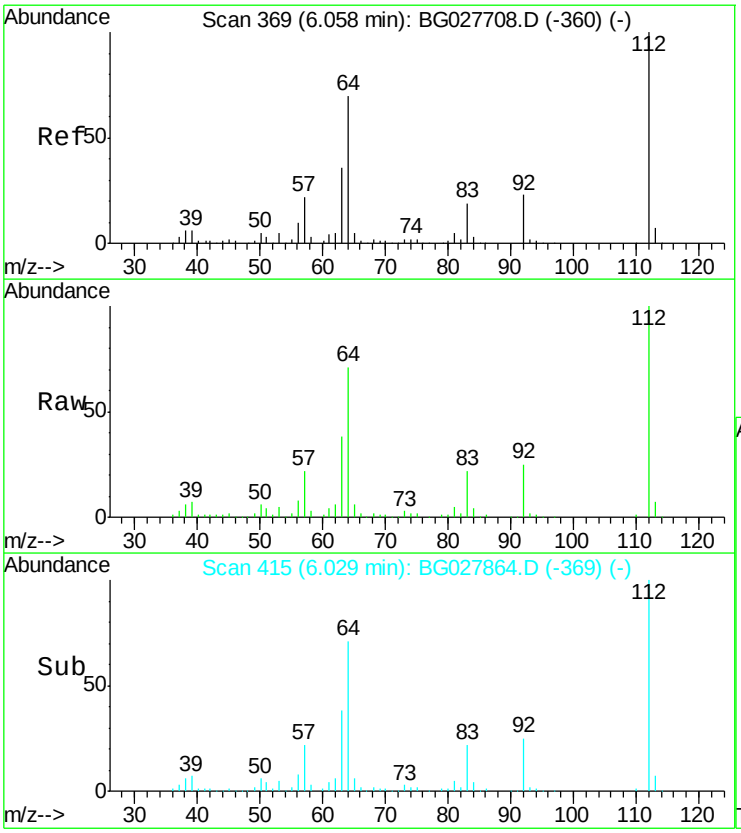

#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.45 min Scan# 827
Delta R.T. -0.03 min
Lab File: BG027864.D
Acq: 6 Jul 2017 1:44

**Instrument :**
BNA_G
**ClientSampleId :**
CL-02-070317-E

Tgt Ion:152 Resp: 27744

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 145.8 | 114.0 | 171.0 |
| 115 | 55.1 | 48.1 | 72.1 |

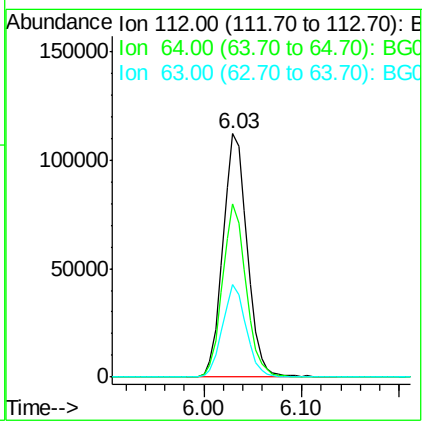


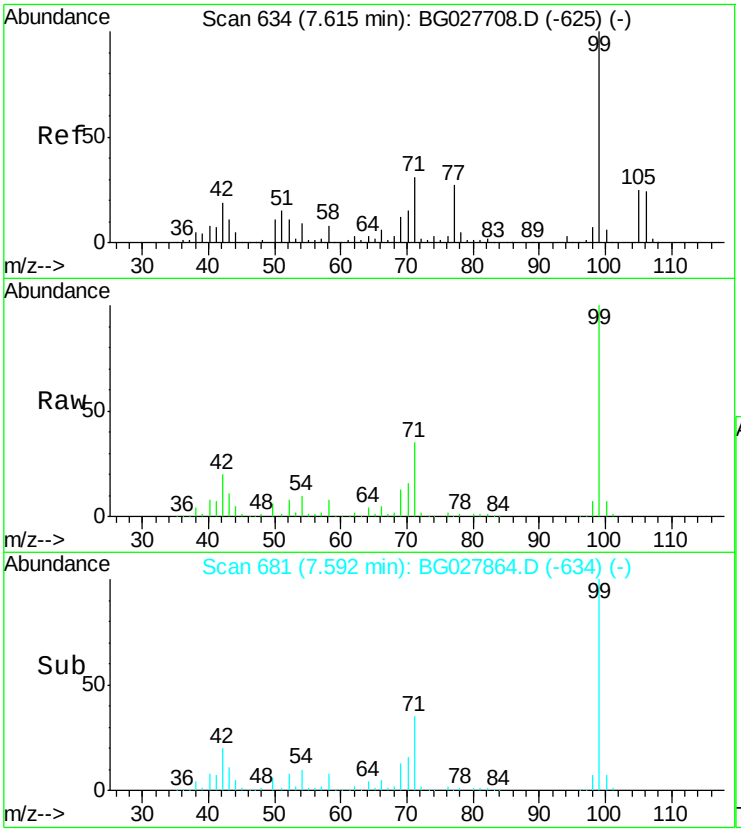




#5
2-Fluorophenol
Concen: 107.507 ng
RT: 6.03 min Scan# 415
Delta R.T. -0.03 min
Lab File: BG027864.D
Acq: 6 Jul 2017 1:44

Tgt Ion:112 Resp: 193692

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 71.3 | 61.8 | 92.6 |
| 63 | 38.1 | 37.2 | 55.8 |



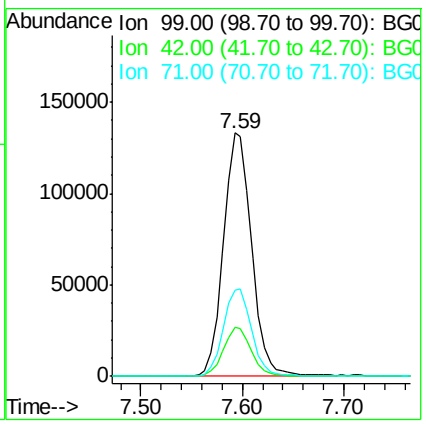


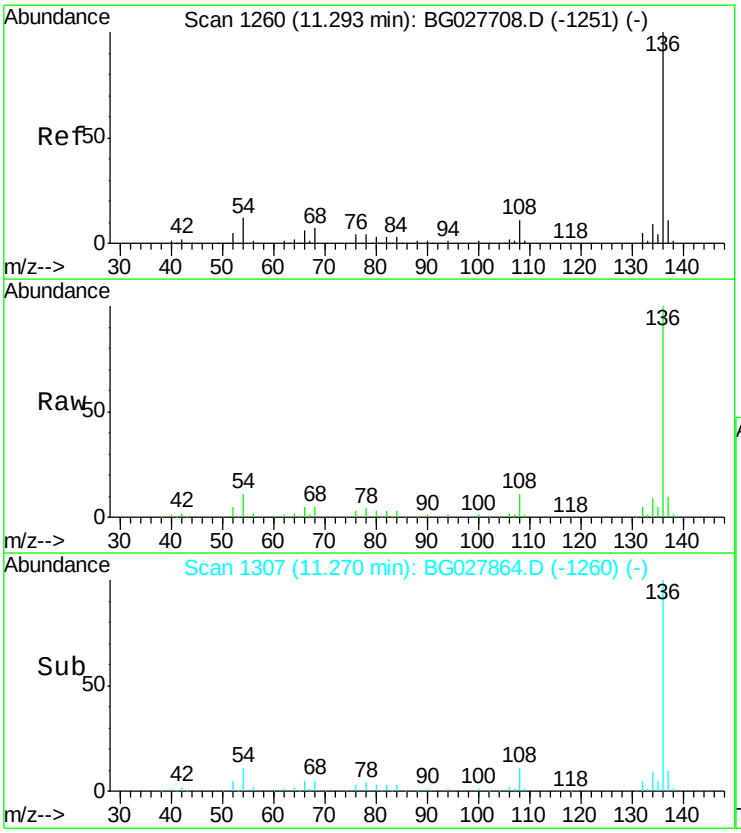

#7
Phenol-d6
Concen: 93.229 ng
RT: 7.59 min Scan# 681
Delta R.T. -0.02 min
Lab File: BG027864.D
Acq: 6 Jul 2017 1:44

**Instrument :**
BNA_G
**ClientSampleId :**
CL-02-070317-E

Tgt Ion: 99 Resp: 256603

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 20.1 | 20.5 | 30.7# |
| 71 | 35.3 | 37.6 | 56.4# |

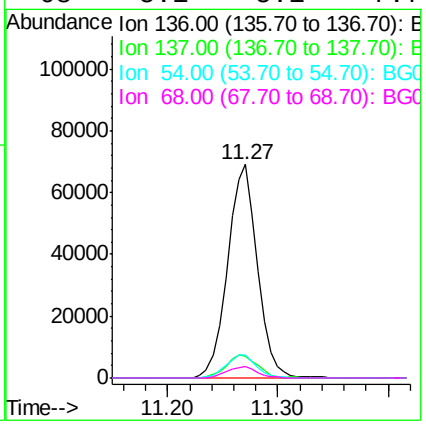


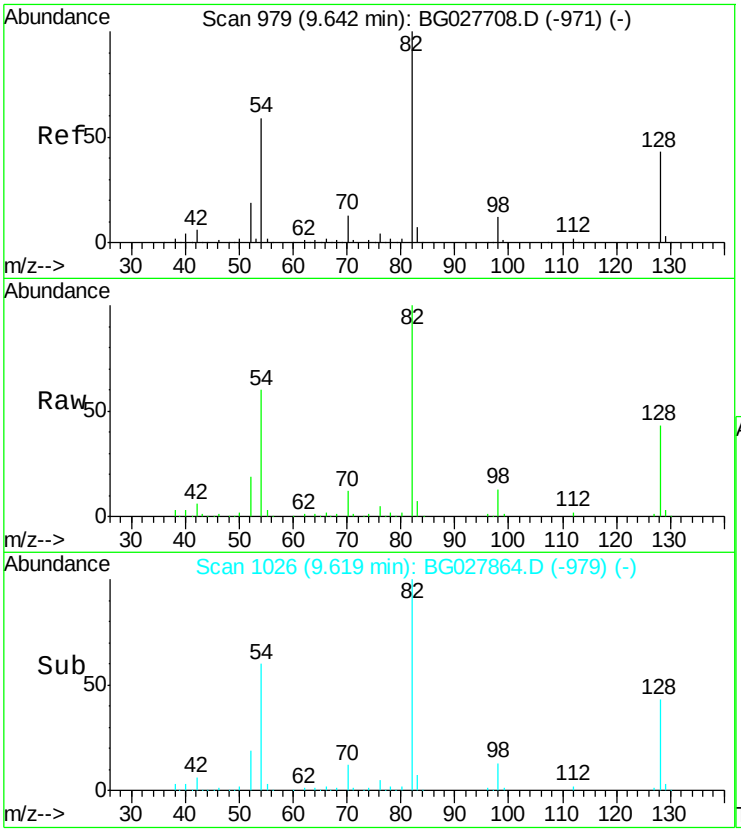




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.27 min Scan# 1307
Delta R.T. -0.02 min
Lab File: BG027864.D
Acq: 6 Jul 2017 1:44

Tgt Ion:136 Resp: 130060

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 10.1 | 8.9 | 13.3 |
| 54 | 10.9 | 9.3 | 13.9 |
| 68 | 5.1 | 5.1 | 7.7 |



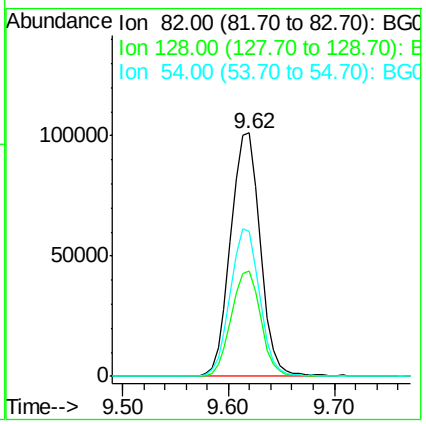


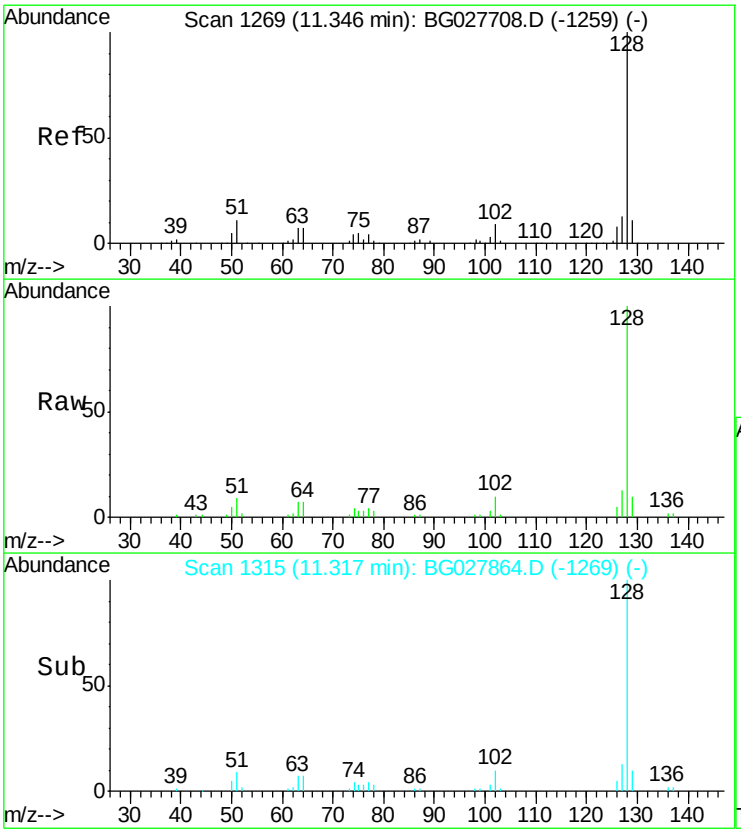

#23
Nitrobenzene-d5
Concen: 84.168 ng
RT: 9.62 min Scan# 1026
Delta R.T. -0.02 min
Lab File: BG027864.D
Acq: 6 Jul 2017 1:44

**Instrument :**
BNA_G
**ClientSampleId :**
CL-02-070317-E

Tgt Ion: 82 Resp: 196390

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 43.2 | 26.4 | 39.6# |
| 54 | 59.6 | 49.4 | 74.2 |

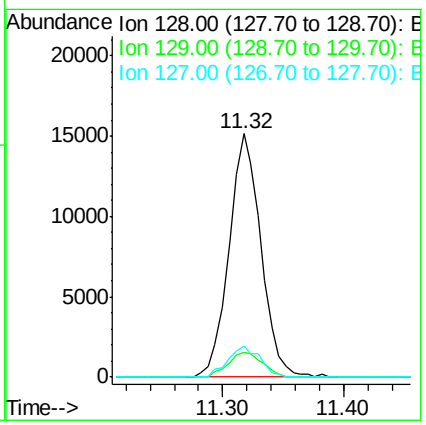


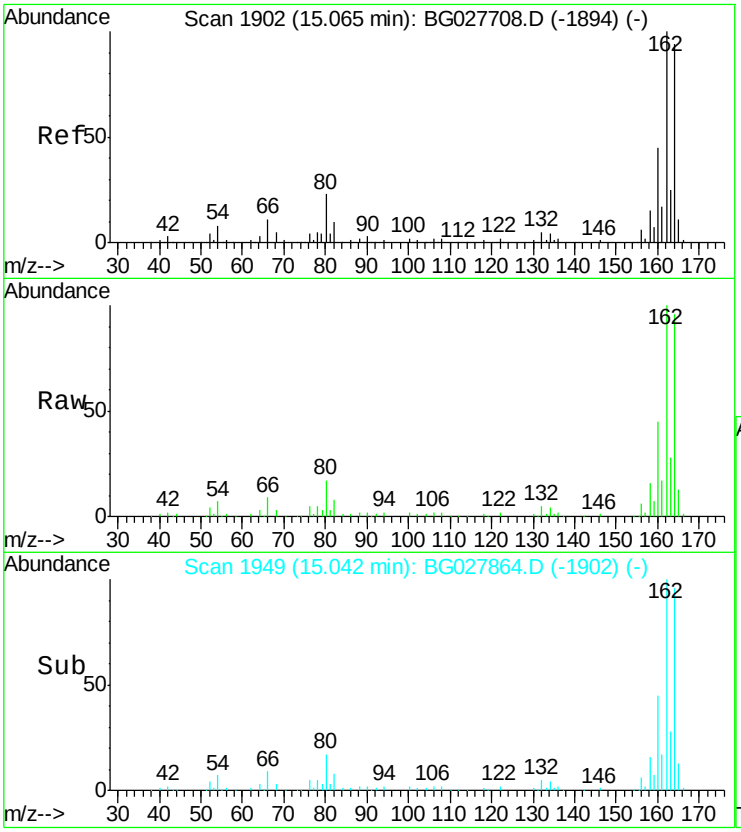




#31
Naphthalene
Concen: 4.017 ng
RT: 11.32 min Scan# 1315
Delta R.T. -0.03 min
Lab File: BG027864.D
Acq: 6 Jul 2017 1:44

Tgt Ion:128 Resp: 27781

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 10.1 | 9.3 | 13.9 |
| 127 | 12.8 | 11.4 | 17.0 |



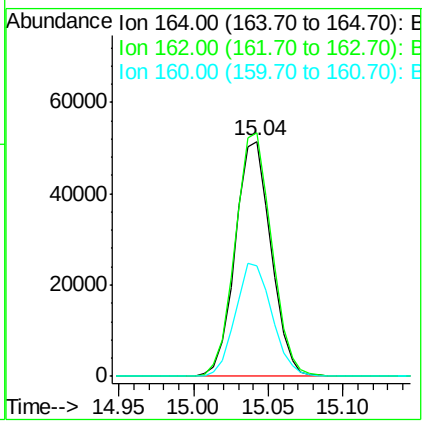


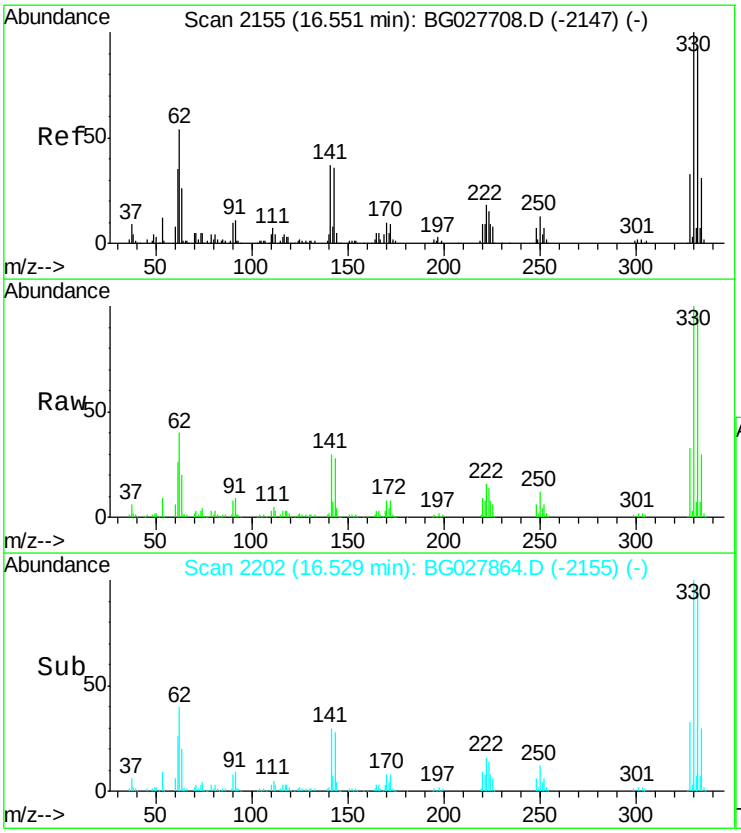

#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 15.04 min Scan# 1949
Delta R.T. -0.02 min
Lab File: BG027864.D
Acq: 6 Jul 2017 1:44

**Instrument :**
BNA_G
**ClientSampleId :**
CL-02-070317-E

Tgt Ion:164 Resp: 85292

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 103.7 | 85.1 | 127.7 |
| 160 | 47.0 | 34.7 | 52.1 |

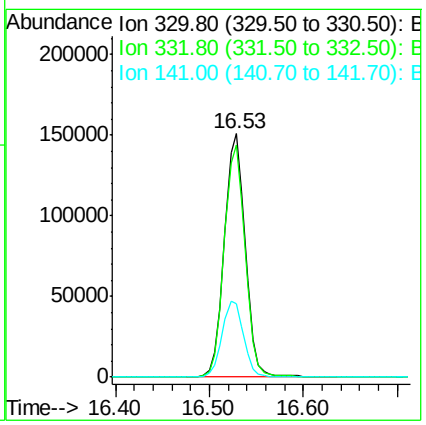


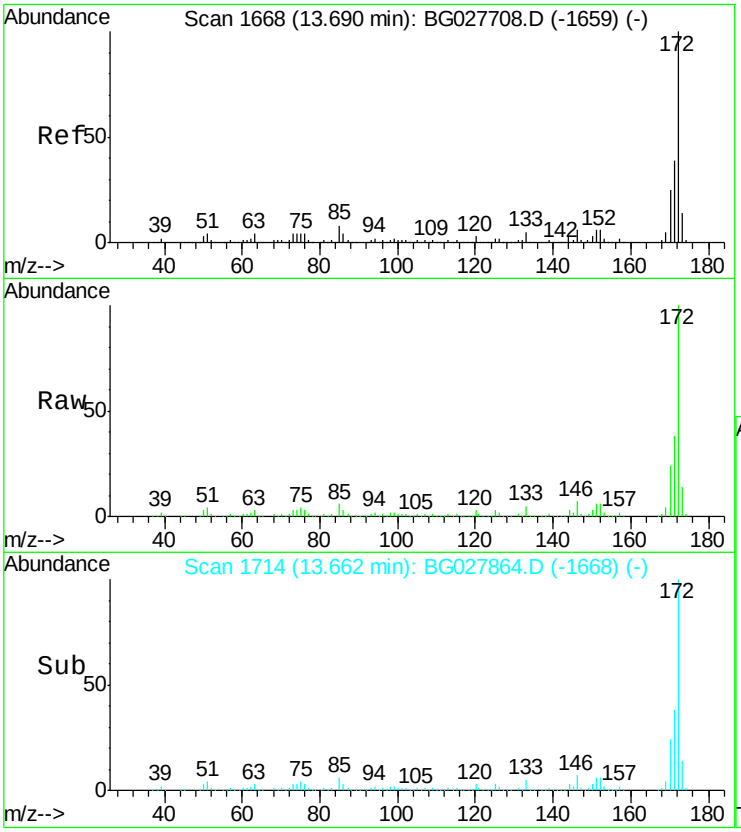




#41
2,4,6-Tribromophenol
Concen: 199.593 ng
RT: 16.53 min Scan# 2202
Delta R.T. -0.02 min
Lab File: BG027864.D
Acq: 6 Jul 2017 1:44

Tgt Ion:330 Resp: 233498

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 95.6 | 77.3 | 115.9 |
| 141 | 32.7 | 32.1 | 48.1 |



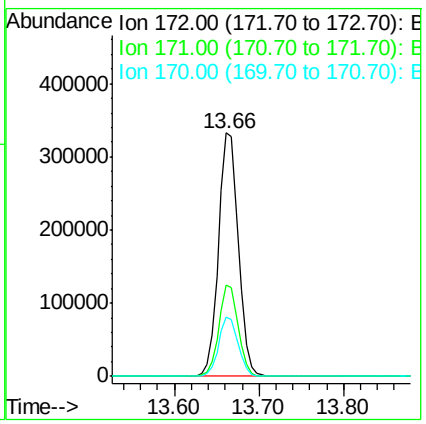


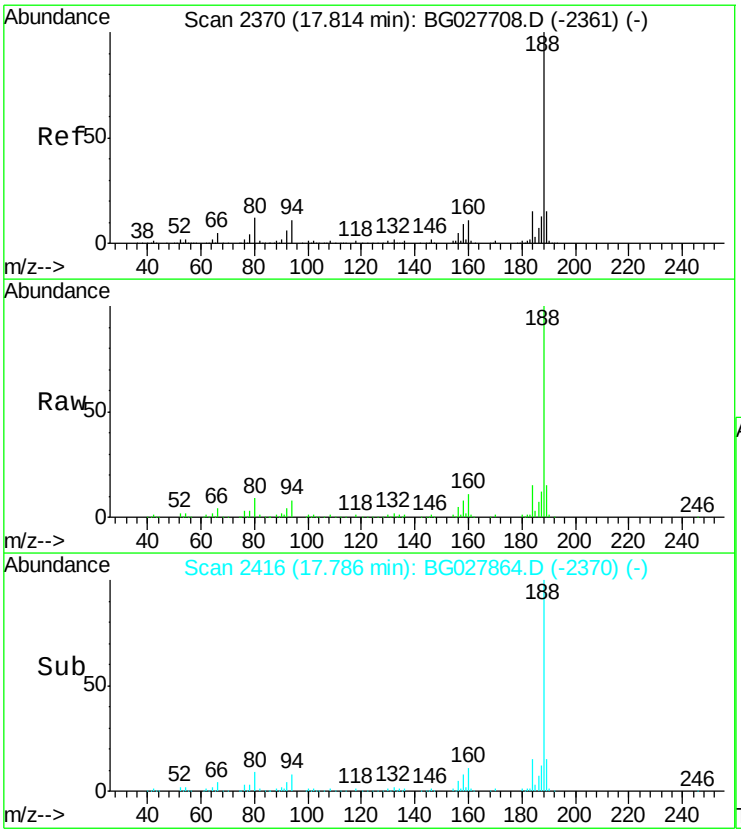

#44
2-Fluorobiphenyl
Concen: 90.931 ng
RT: 13.66 min Scan# 1714
Delta R.T. -0.03 min
Lab File: BG027864.D
Acq: 6 Jul 2017 1:44

**Instrument :**
BNA_G
**ClientSampleId :**
CL-02-070317-E

Tgt Ion:172 Resp: 543052

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 37.7 | 32.2 | 48.2 |
| 170 | 24.2 | 21.8 | 32.6 |

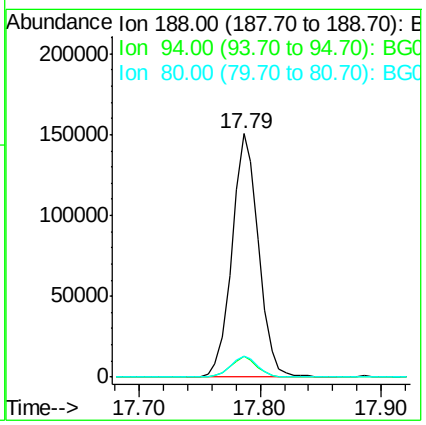


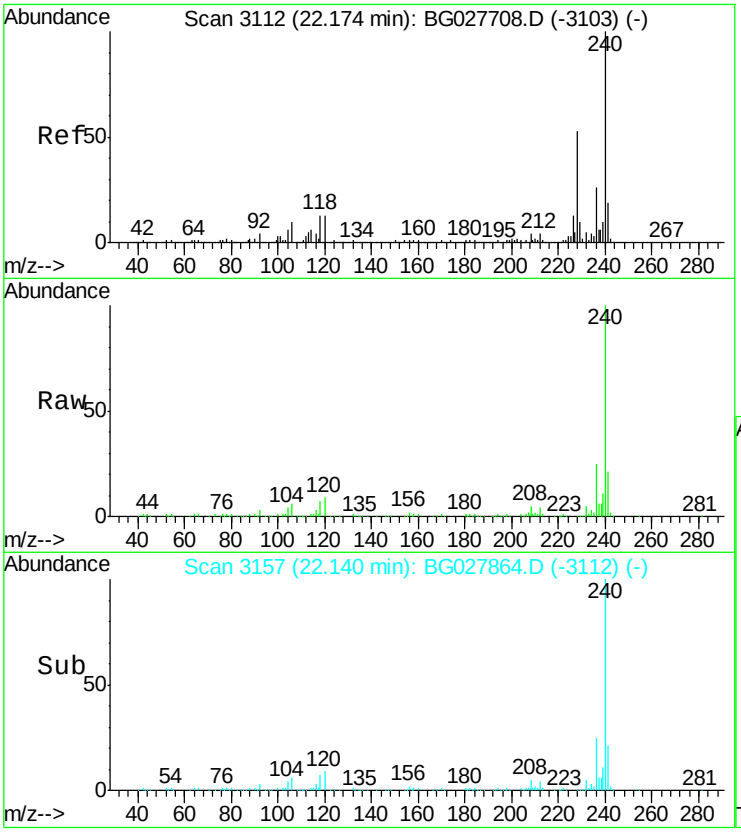




#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.79 min Scan# 2416
Delta R.T. -0.03 min
Lab File: BG027864.D
Acq: 6 Jul 2017 1:44

Tgt Ion:188 Resp: 230400

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 8.4 | 5.8 | 8.8 |
| 80 | 8.5 | 7.5 | 11.3 |



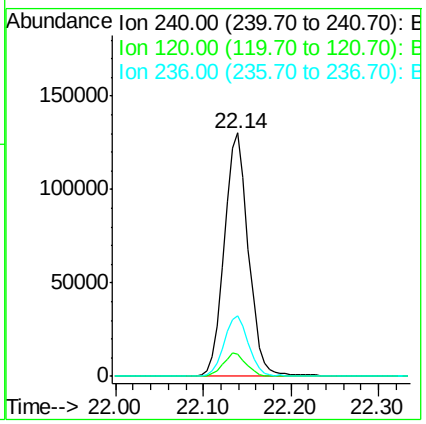


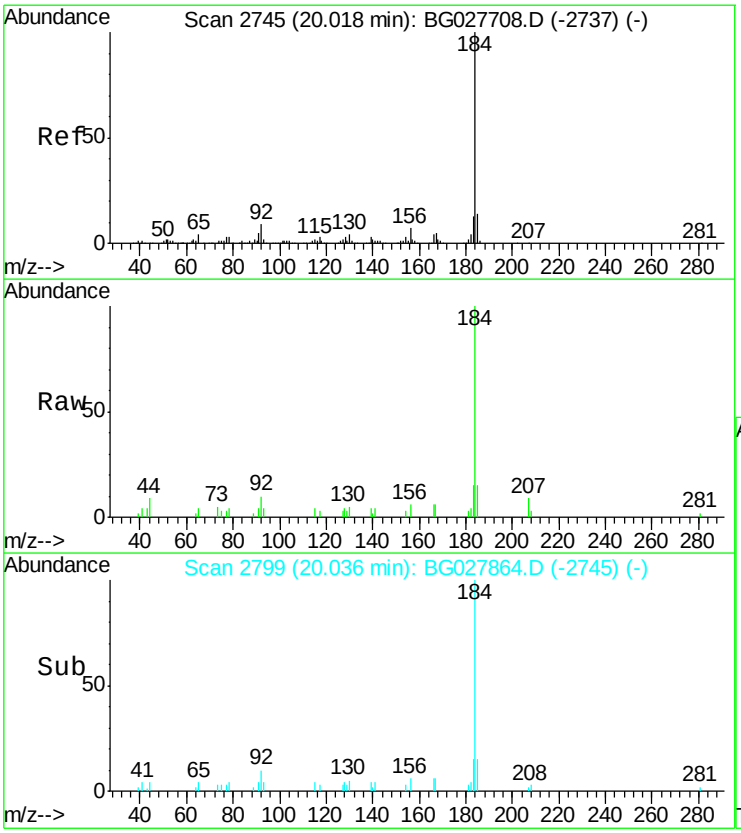

#75
Chrysene-d12
Concen: 20.000 ng
RT: 22.14 min Scan# 3157
Delta R.T. -0.03 min
Lab File: BG027864.D
Acq: 6 Jul 2017 1:44

**Instrument :**
BNA_G
**ClientSampleId :**
CL-02-070317-E

Tgt Ion:240 Resp: 245809

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 9.2 | 5.7 | 8.5# |
| 236 | 25.0 | 22.2 | 33.4 |

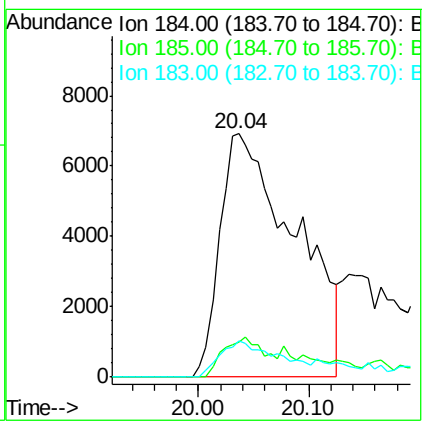


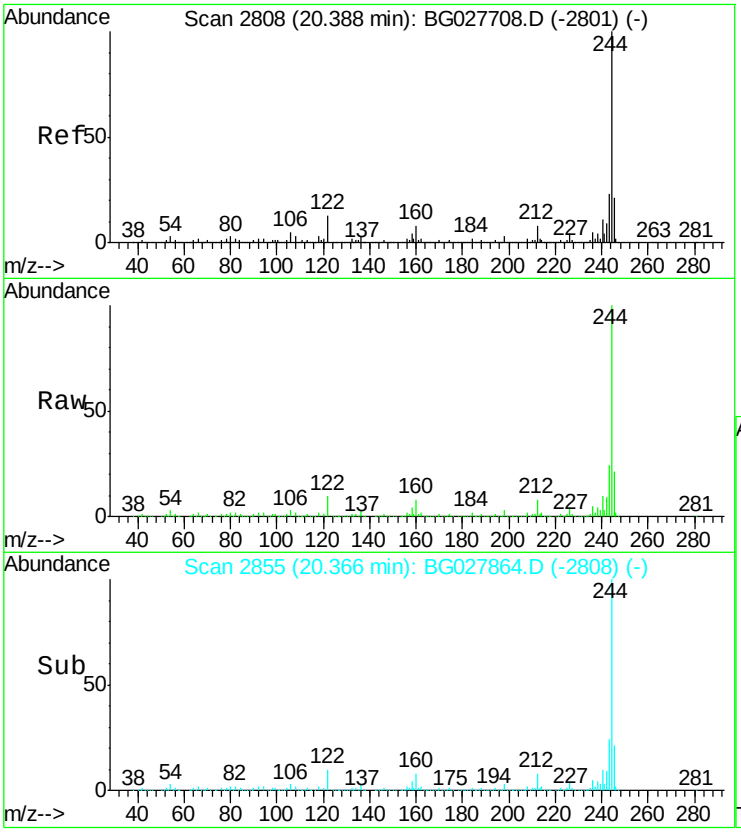




#76
Benzidine
Concen: 8.431 ng
RT: 20.04 min Scan# 2799
Delta R.T. 0.02 min
Lab File: BG027864.D
Acq: 6 Jul 2017 1:44

Tgt Ion:184 Resp: 32696

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 185 | 14.5 | 13.0 | 19.6 |
| 183 | 14.9 | 11.0 | 16.6 |



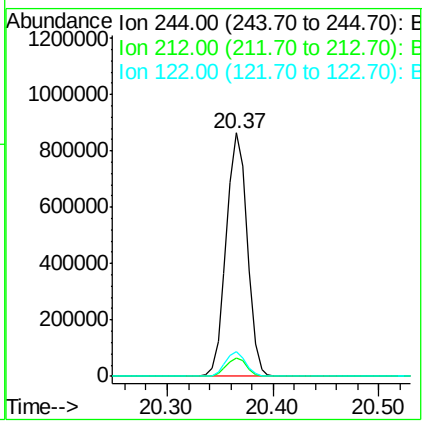


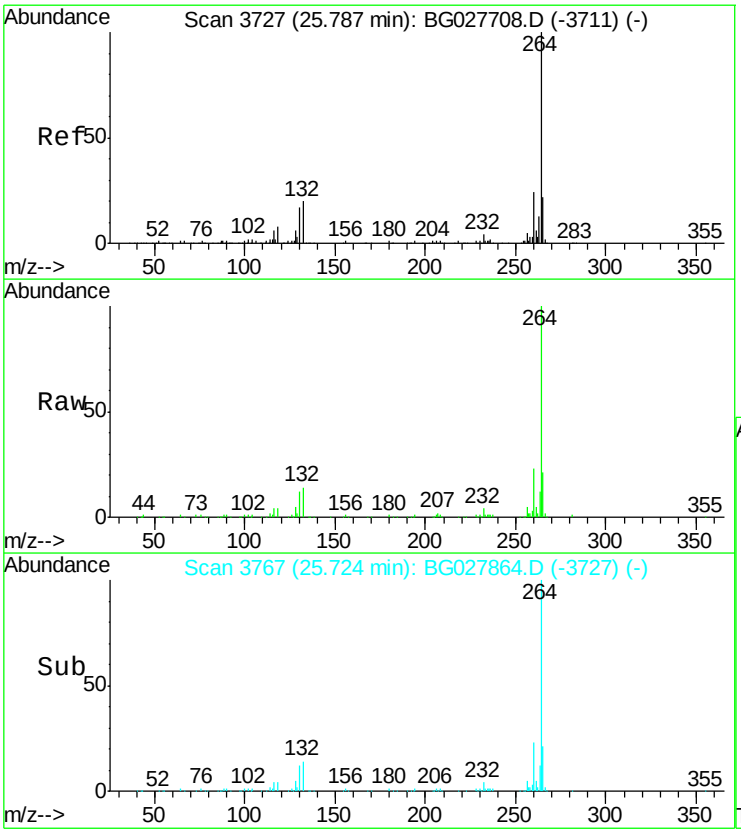

#78
Terphenyl-d14
Concen: 112.742 ng
RT: 20.37 min Scan# 2855
Delta R.T. -0.02 min
Lab File: BG027864.D
Acq: 6 Jul 2017 1:44

**Instrument :**
BNA_G
**ClientSampleId :**
CL-02-070317-E

Tgt Ion:244 Resp: 1182107

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 7.5 | 10.0 | 15.0# |
| 122 | 10.0 | 8.6 | 12.8 |




#86
Perylene-d12
Concen: 20.000 ng
RT: 25.72 min Scan# 3767
Delta R.T. -0.06 min
Lab File: BG027864.D
Acq: 6 Jul 2017 1:44

Tgt Ion:264 Resp: 234441

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 22.6 | 21.8 | 32.8 |
| 265 | 21.2 | 18.2 | 27.4 |