Quantitation Report (Not Reviewed)

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM053115\
Data File : BM001506.D
Acq On : 31 May 2015 11:07
Operator : TP/IZ
Sample : PB83689BS
Misc :
ALS Vial : 35 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** PB83689BS

Quant Time: Jun 01 05:51:27 2015
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SIM-BM053115.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sun May 31 07:43:08 2015
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 7.38 | 152 | 13421 | 5.00 | ng | | 0.00 |
| 6) Naphthalene-d8 | 10.15 | 136 | 52314 | 5.00 | ng | | 0.00 |
| 9) Acenaphthene-d10 | 14.06 | 164 | 28115 | 5.00 | ng | | 0.00 |
| 15) Phenanthrene-d10 | 16.81 | 188 | 56839 | 5.00 | ng | | 0.00 |
| 17) Chrysene-d12 | 21.03 | 240 | 48454 | 5.00 | ng | | 0.00 |
| 21) Perylene-d12 | 23.11 | 264 | 41270 | 5.00 | ng | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 2) 2-Fluorophenol | 4.97 | 112 | 28988 | 10.98 | ng | | 0.00 |
| 3) Phenol-d6 | 6.57 | 99 | 41918 | 12.17 | ng | | 0.00 |
| 7) Nitrobenzene-d5 | 8.51 | 82 | 20898 | 7.39 | ng | | -0.03 |
| 10) 2,4,6-Tribromophenol | 15.56 | 330 | 13343 | 13.39 | ng | | -0.01 |
| 11) 2-Fluorobiphenyl | 12.67 | 172 | 60891 | 7.47 | ng | | 0.00 |
| 18) Terphenyl-d14 | 19.46 | 244 | 46478 | 7.17 | ng | | 0.00 |
| **Target Compounds** | | | | | | | Qvalue |
| 4) bis(2-Chloroethyl)ether | 6.80 | 93 | 21506 | 8.09 | ng | | 96 |
| 5) n-Nitroso-di-n-propylamine | 8.18 | 70 | 17203 | 7.93 | ng | | 92 |
| 8) bis(2-Chloroethoxy)methane | 9.58 | 93 | 27748 | 8.22 | ng | | 98 |
| 12) 2,6-Dinitrotoluene | 13.65 | 165 | 13503 | 7.80 | ng | # | 65 |
| 13) 2,4-Dinitrotoluene | 14.45 | 165 | 18899 | 8.52 | ng | # | 86 |
| 14) 4-Chlorophenyl-phenylether | 15.11 | 204 | 32637 | 8.00 | ng | # | 84 |
| 16) 4-Bromophenyl-phenylether | 16.01 | 248 | 18757 | 7.92 | ng | # | 64 |
| 19) Benzo(a)anthracene | 21.00 | 228 | 95411 | 7.22 | ng | # | 85 |
| 20) 3,3'-Dichlorobenzidine | 20.95 | 252 | 37897 | 8.78 | ng | # | 87 |

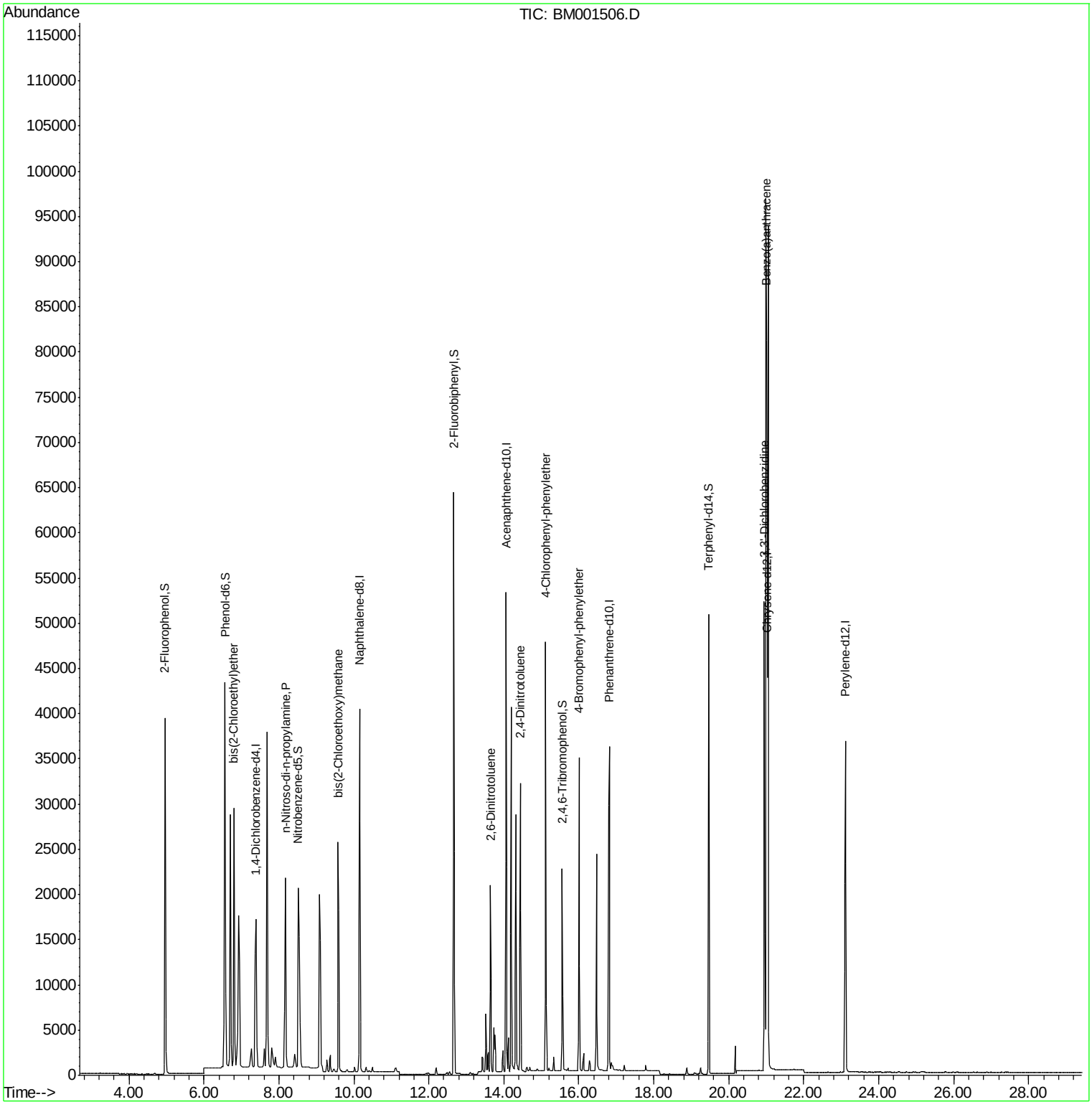
(#) = qualifier out of range (m) = manual integration (+) = signals summed

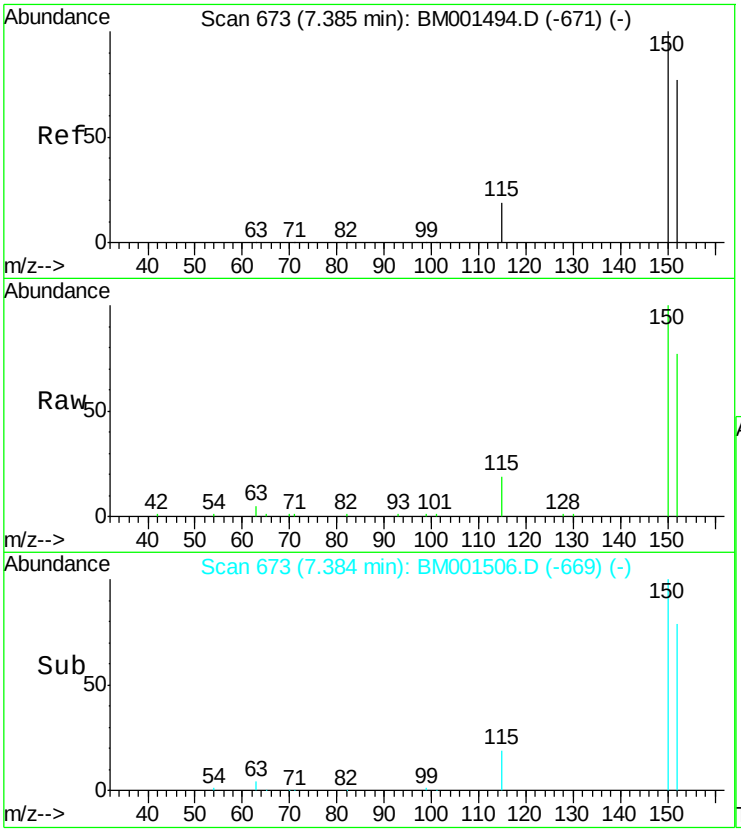
Quantitation Report (Not Reviewed)

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM053115\
Data File : BM001506.D
Acq On : 31 May 2015 11:07
Operator : TP/IZ
Sample : PB83689BS
Misc :
ALS Vial : 35 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
PB83689BS

Quant Time: Jun 01 05:51:27 2015
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SIM-BM053115.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sun May 31 07:43:08 2015
Response via : Initial Calibration



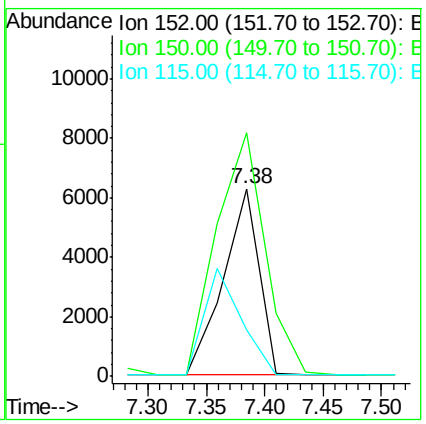


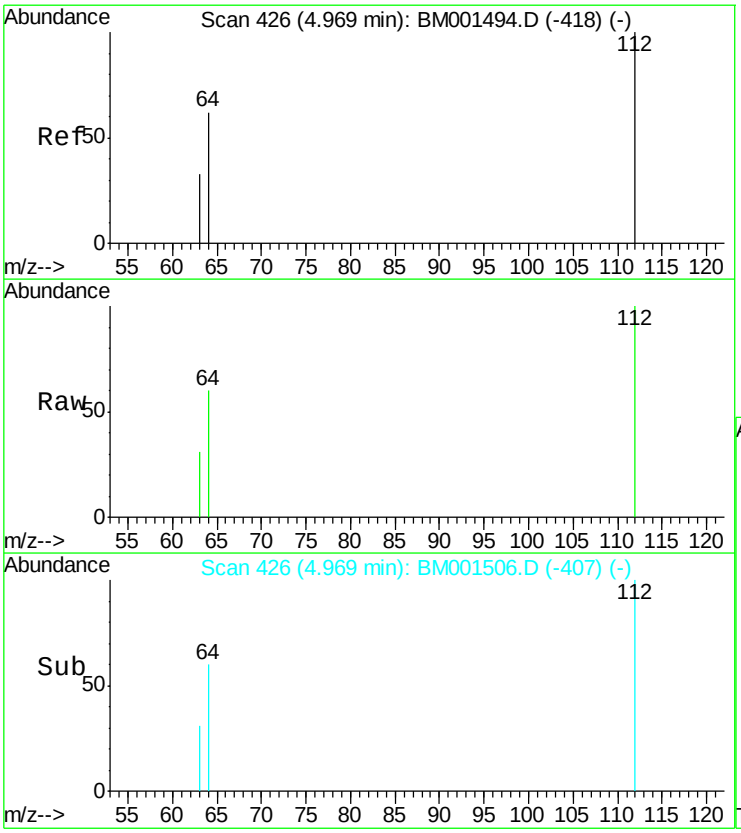

#1
1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 7.38 min Scan# 673
Delta R.T. -0.00 min
Lab File: BM001506.D
Acq: 31 May 2015 11:07

**Instrument :**
BNA_M
**ClientSampleId :**
PB83689BS

Tgt Ion:152 Resp: 13421

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 129.8 | 103.8 | 155.8 |
| 115 | 24.8 | 20.7 | 31.1 |

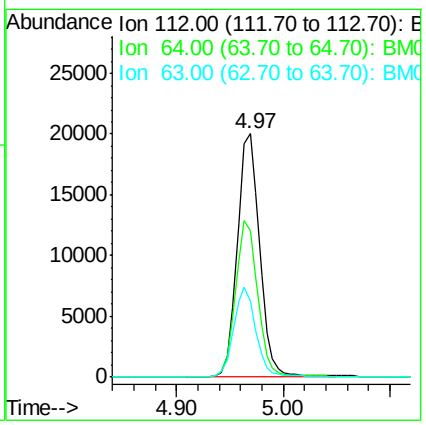


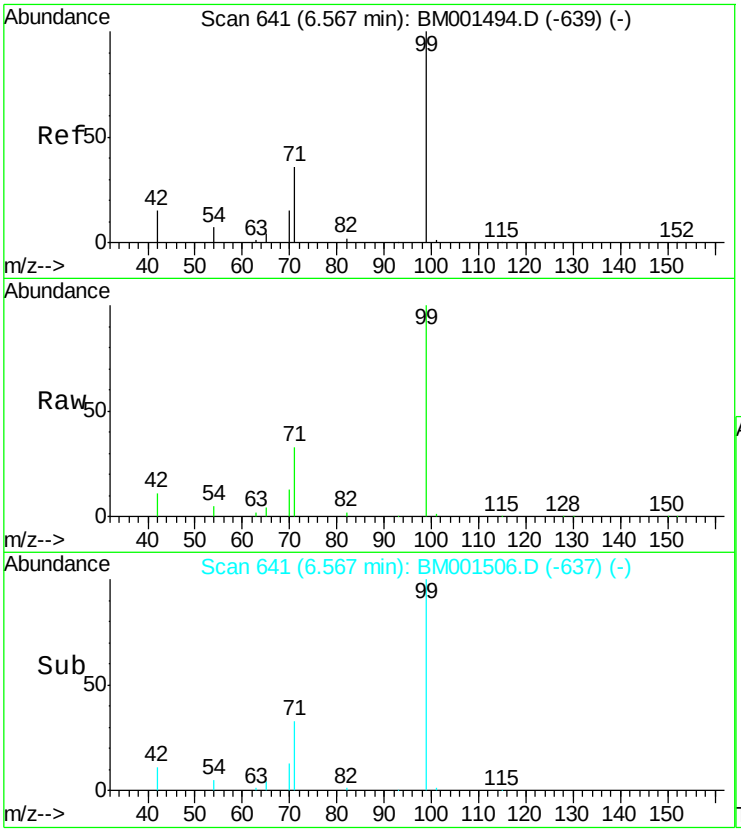




#2
2-Fluorophenol
Concen: 10.98 ng
RT: 4.97 min Scan# 426
Delta R.T. -0.00 min
Lab File: BM001506.D
Acq: 31 May 2015 11:07

Tgt Ion:112 Resp: 28988

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 60.3 | 50.2 | 75.2 |
| 63 | 31.2 | 28.2 | 42.4 |



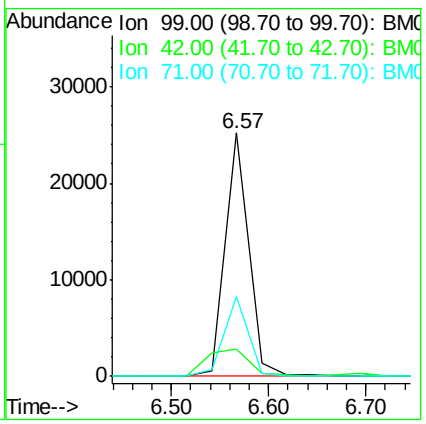


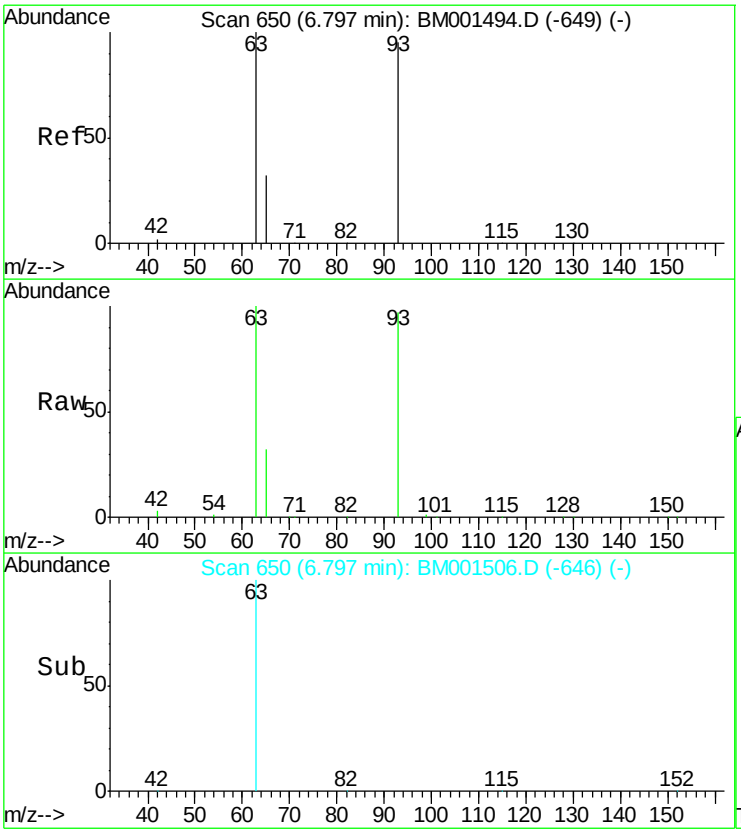

#3
Phenol-d6
Concen:  12.17 ng
RT: 6.57 min  Scan# 641
Delta R.T.  -0.00 min
Lab File:  BM001506.D
Acq: 31 May 2015  11:07

**Instrument :**
BNA_M
**ClientSampleId :**
PB83689BS

Tgt Ion: 99 Resp:  41918

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 11.3 | 15.2 | 22.8# |
| 71 | 33.0 | 30.6 | 46.0 |

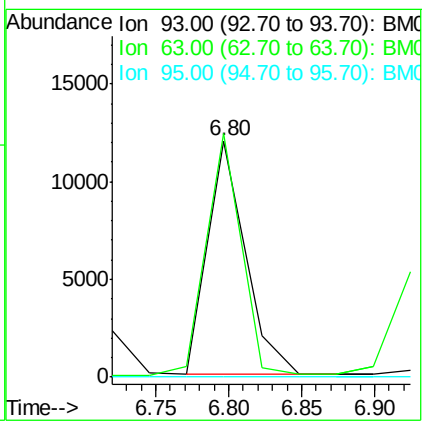


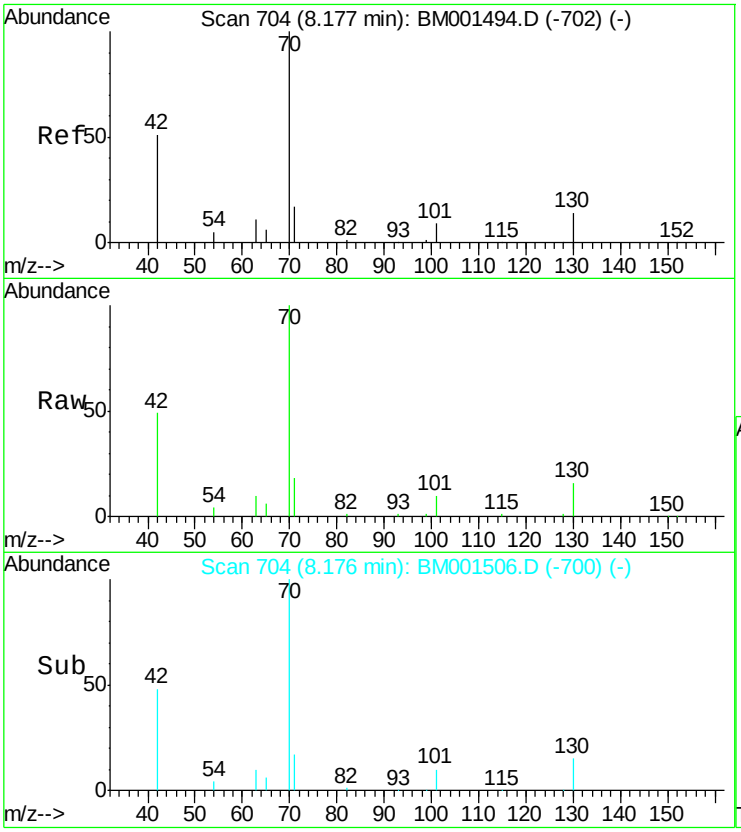




#4
bis(2-Chloroethyl)ether
Concen:  8.09 ng
RT: 6.80 min  Scan# 650
Delta R.T.  -0.00 min
Lab File:  BM001506.D
Acq: 31 May 2015  11:07

Tgt Ion: 93 Resp:  21506

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 103.0 | 86.8 | 126.8 |
| 95 | 0.0 | 0.0 | 20.0 |



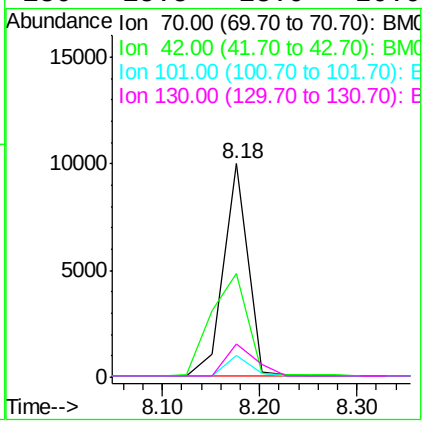


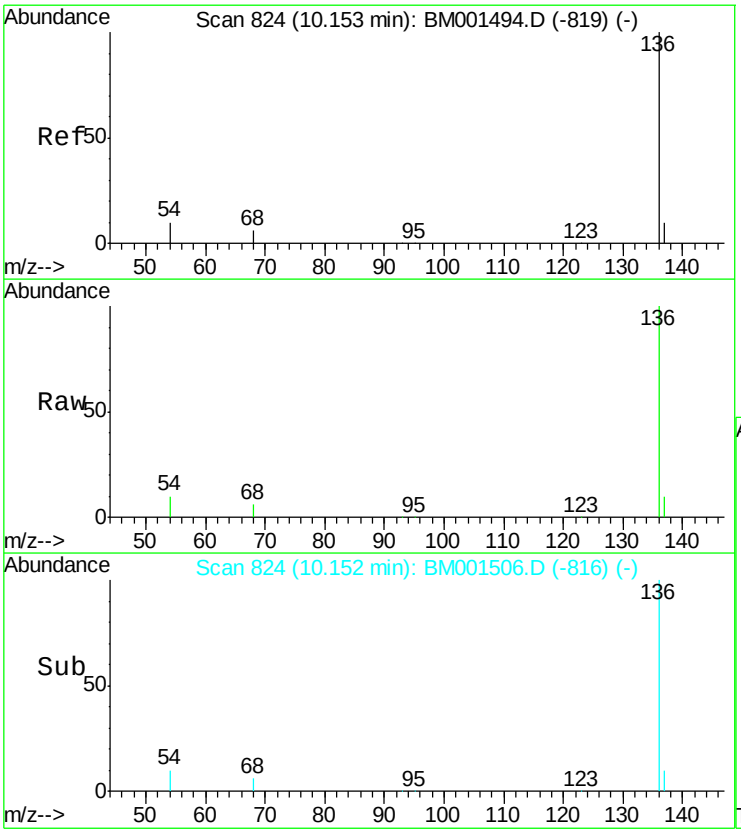

#5
n-Nitroso-di-n-propylamine
Concen: 7.93 ng
RT: 8.18 min Scan# 704
Delta R.T. -0.00 min
Lab File: BM001506.D
Acq: 31 May 2015 11:07

**Instrument :**
BNA_M
**ClientSampleId :**
PB83689BS

Tgt Ion: 70 Resp: 17203

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 70 | 100 | | |
| 42 | 48.5 | 44.2 | 66.2 |
| 101 | 10.5 | 10.3 | 15.5 |
| 130 | 15.5 | 13.9 | 20.9 |

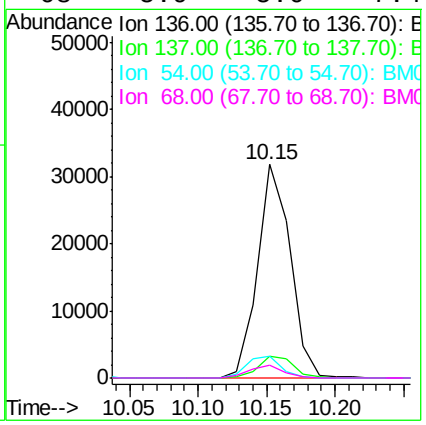


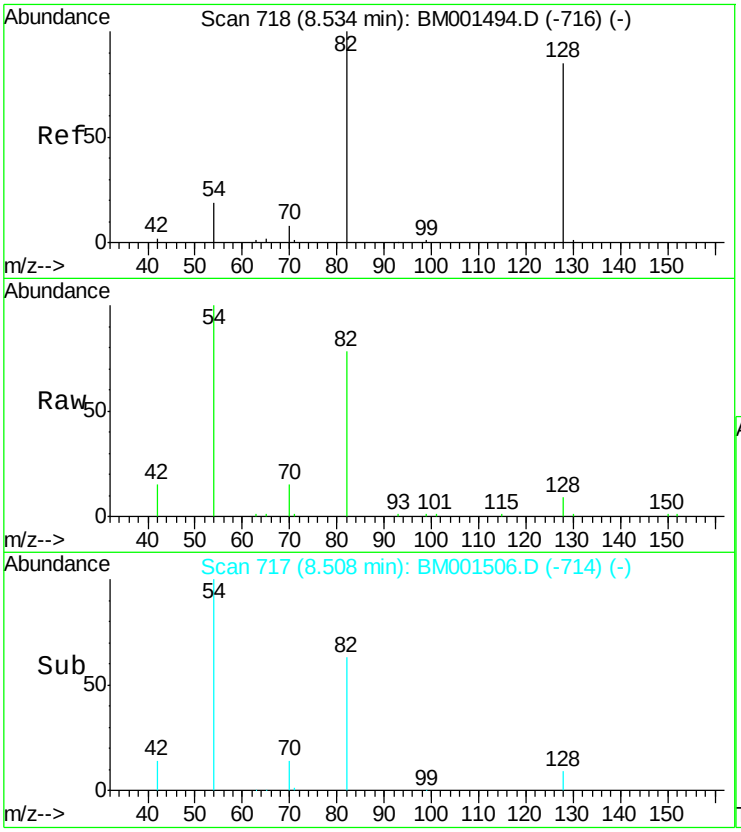




#6
Naphthalene-d8
Concen: 5.00 ng
RT: 10.15 min Scan# 824
Delta R.T. -0.00 min
Lab File: BM001506.D
Acq: 31 May 2015 11:07

Tgt Ion:136 Resp: 52314

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 10.5 | 8.3 | 12.5 |
| 54 | 10.3 | 8.5 | 12.7 |
| 68 | 5.9 | 5.0 | 7.4 |



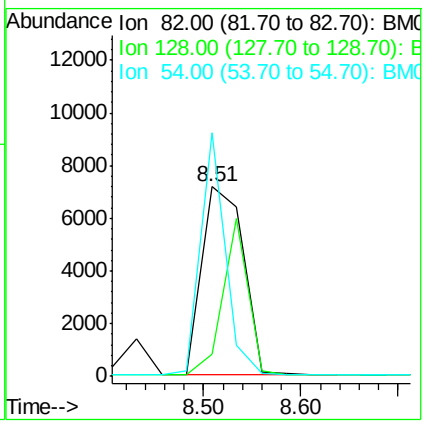


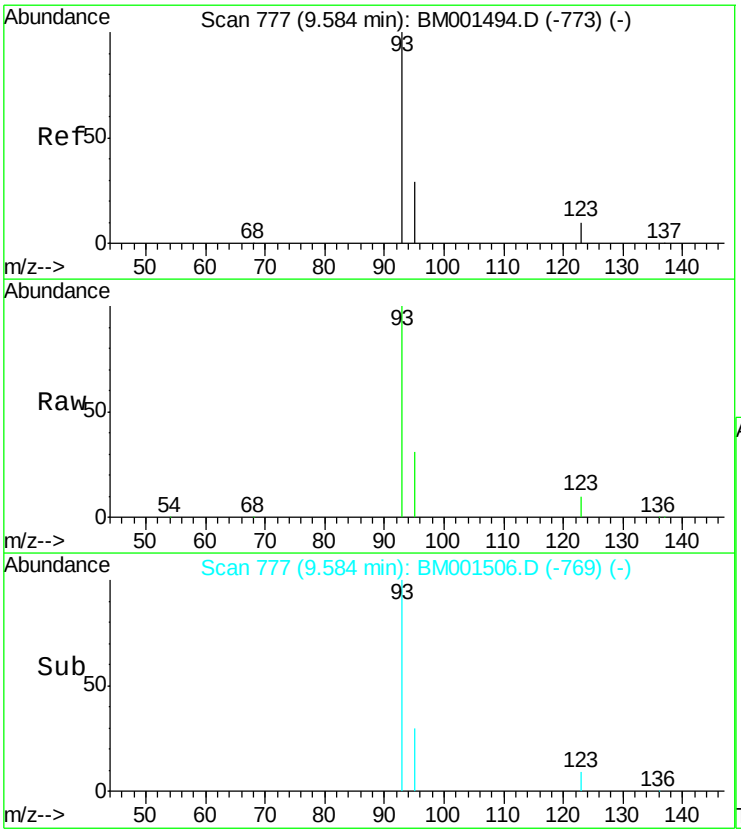

#7
Nitrobenzene-d5
Concen: 7.39 ng
RT: 8.51 min Scan# 717
Delta R.T. -0.03 min
Lab File: BM001506.D
Acq: 31 May 2015 11:07

**Instrument :**
BNA_M
**ClientSampleId :**
PB83689BS

Tgt Ion: 82 Resp: 20898

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 11.8 | 68.2 | 102.2# |
| 54 | 128.6 | 21.0 | 31.4# |

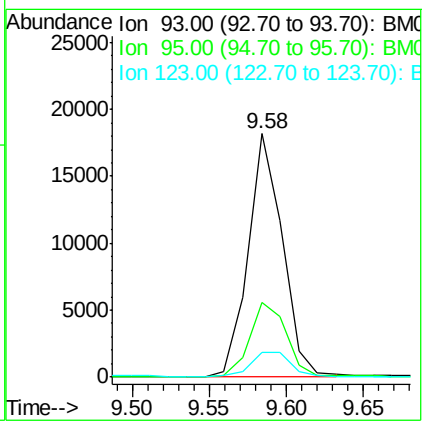


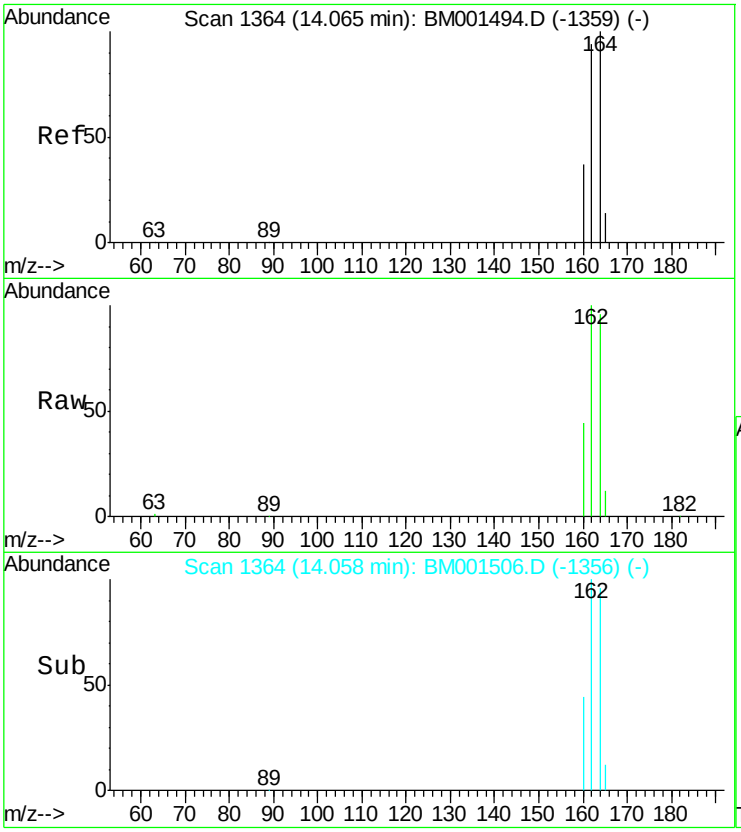




#8
bis(2-Chloroethoxy)methane
Concen: 8.22 ng
RT: 9.58 min Scan# 777
Delta R.T. -0.00 min
Lab File: BM001506.D
Acq: 31 May 2015 11:07

Tgt Ion: 93 Resp: 27748

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 30.6 | 25.0 | 37.6 |
| 123 | 10.1 | 9.5 | 14.3 |



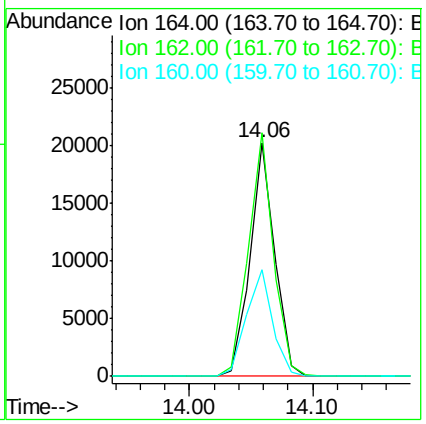


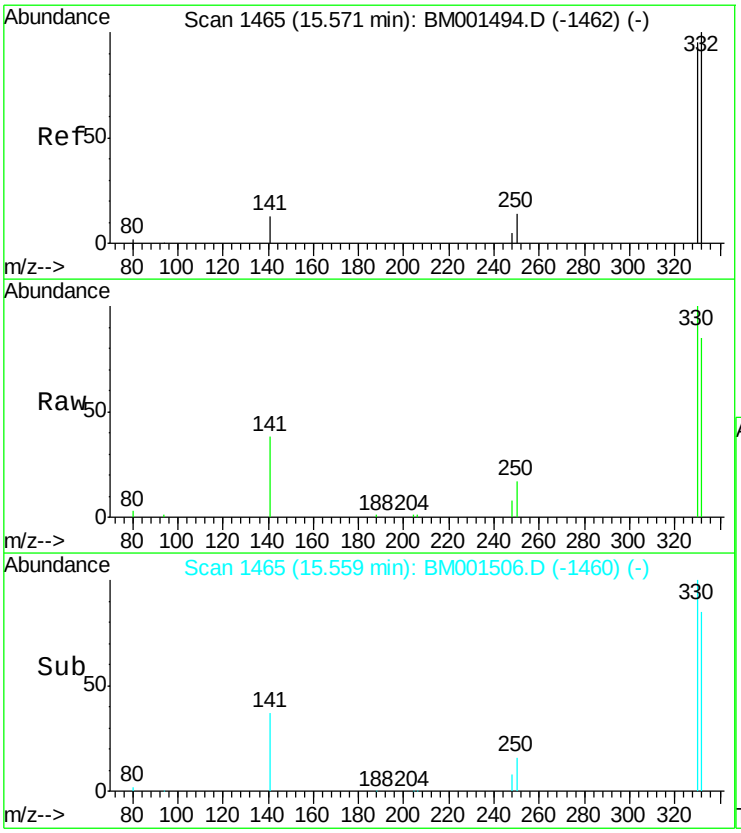

#9
Acenaphthene-d10
Concen: 5.00 ng
RT: 14.06 min Scan# 1364
Delta R.T. -0.01 min
Lab File: BM001506.D
Acq: 31 May 2015 11:07

**Instrument :**
BNA_M
**ClientSampleId :**
PB83689BS

Tgt Ion:164 Resp: 28115

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 104.1 | 75.3 | 112.9 |
| 160 | 45.7 | 30.1 | 45.1# |

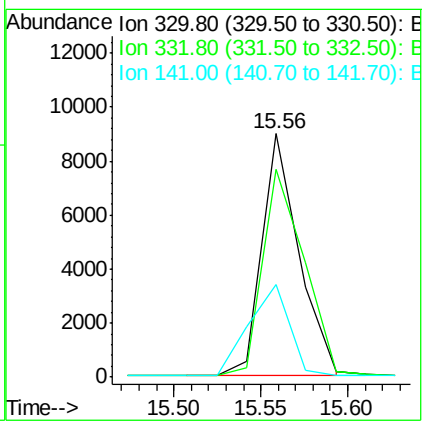


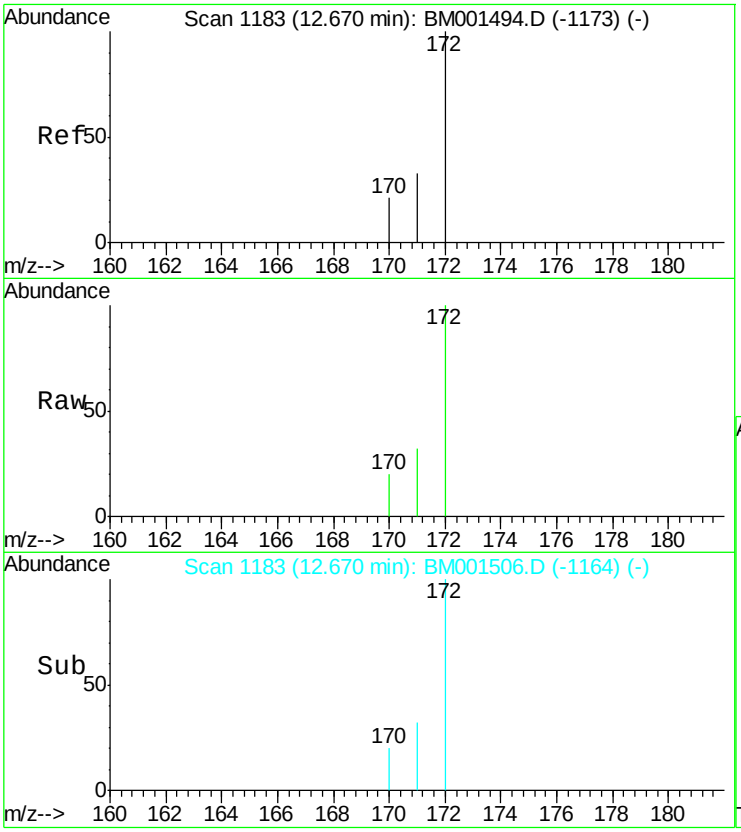




#10
2,4,6-Tribromophenol
Concen: 13.39 ng
RT: 15.56 min Scan# 1465
Delta R.T. -0.01 min
Lab File: BM001506.D
Acq: 31 May 2015 11:07

Tgt Ion:330 Resp: 13343

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 95.2 | 77.6 | 116.4 |
| 141 | 42.2 | 34.3 | 51.5 |



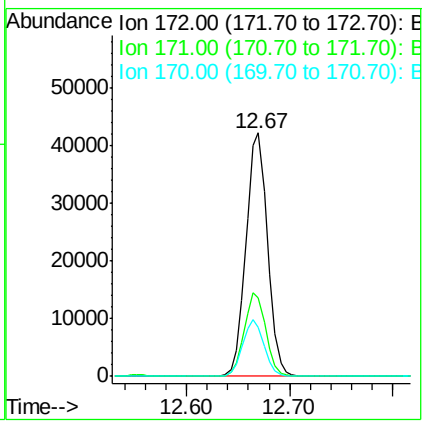


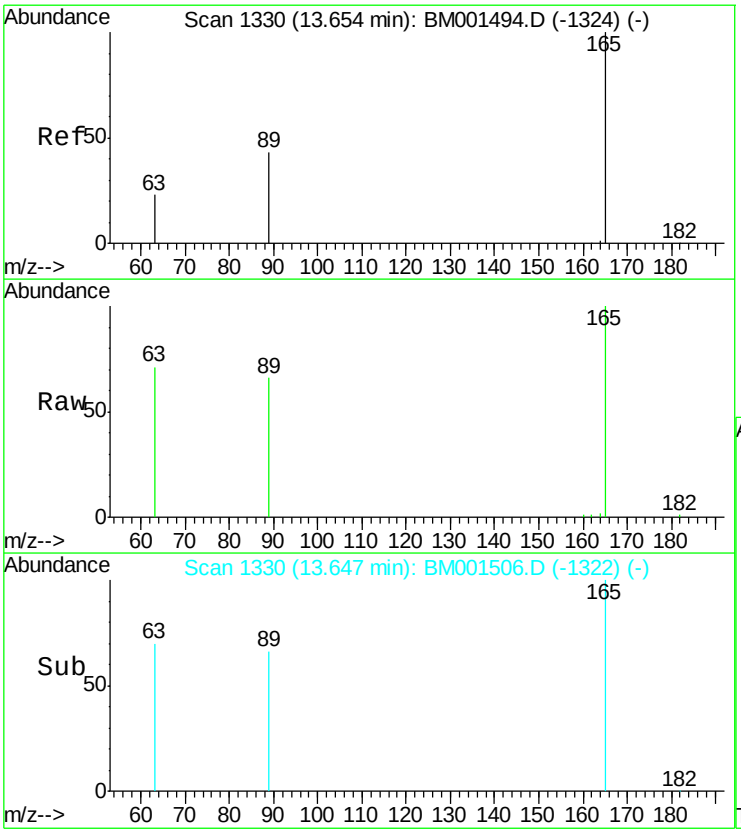

#11
2-Fluorobiphenyl
Concen: 7.47 ng
RT: 12.67 min Scan# 1183
Delta R.T. -0.00 min
Lab File: BM001506.D
Acq: 31 May 2015 11:07

**Instrument :**
BNA_M
**ClientSampleId :**
PB83689BS

Tgt Ion:172 Resp: 60891

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 32.3 | 27.2 | 40.8 |
| 170 | 20.0 | 17.8 | 26.6 |

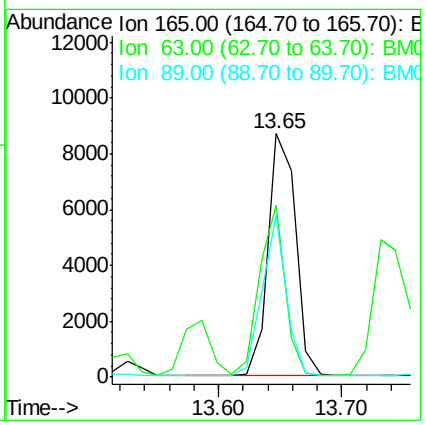


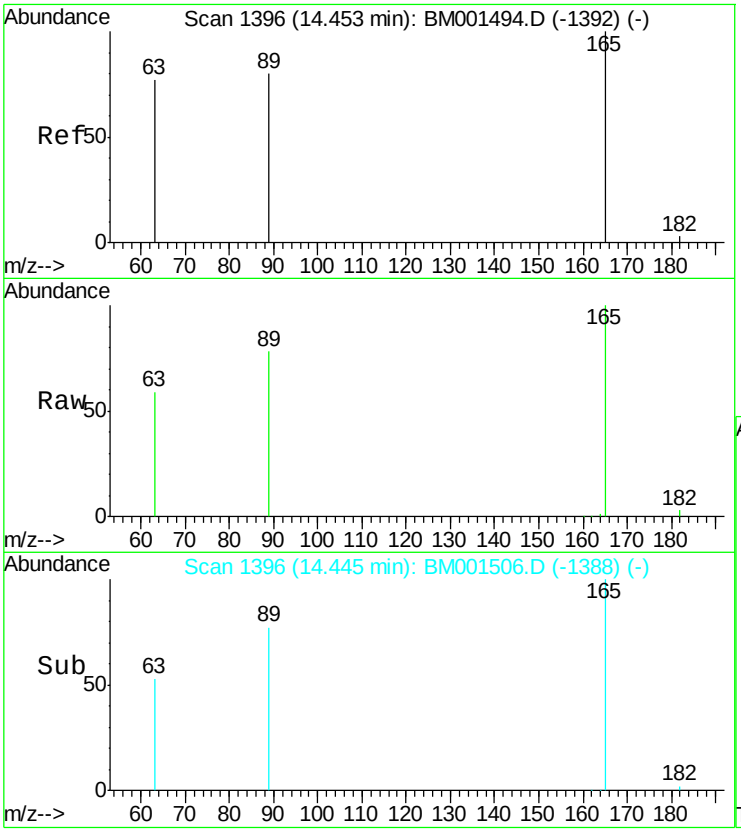




#12
2,6-Dinitrotoluene
Concen: 7.80 ng
RT: 13.65 min Scan# 1330
Delta R.T. -0.01 min
Lab File: BM001506.D
Acq: 31 May 2015 11:07

Tgt Ion:165 Resp: 13503

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 63 | 70.5 | 35.3 | 52.9# |
| 89 | 66.1 | 37.4 | 56.2# |



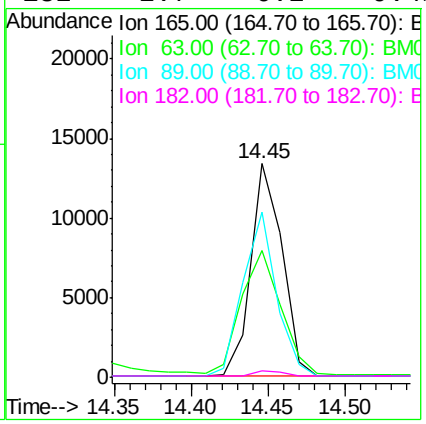


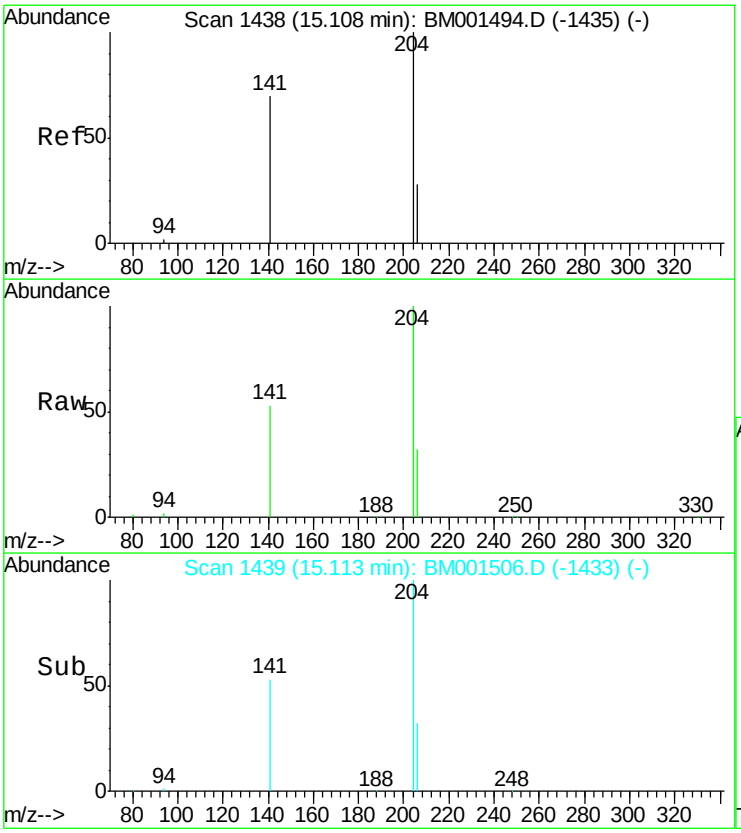

#13
2,4-Dinitrotoluene
Concen: 8.52 ng
RT: 14.45 min Scan# 1396
Delta R.T. -0.01 min
Lab File: BM001506.D
Acq: 31 May 2015 11:07

**Instrument :**
BNA_M
**ClientSampleId :**
PB83689BS

Tgt Ion:165 Resp: 18899

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 63 | 59.3 | 63.9 | 95.9# |
| 89 | 77.5 | 65.0 | 97.6 |
| 182 | 2.7 | 6.2 | 9.4# |

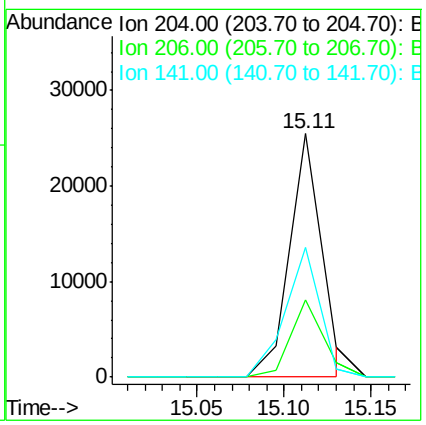


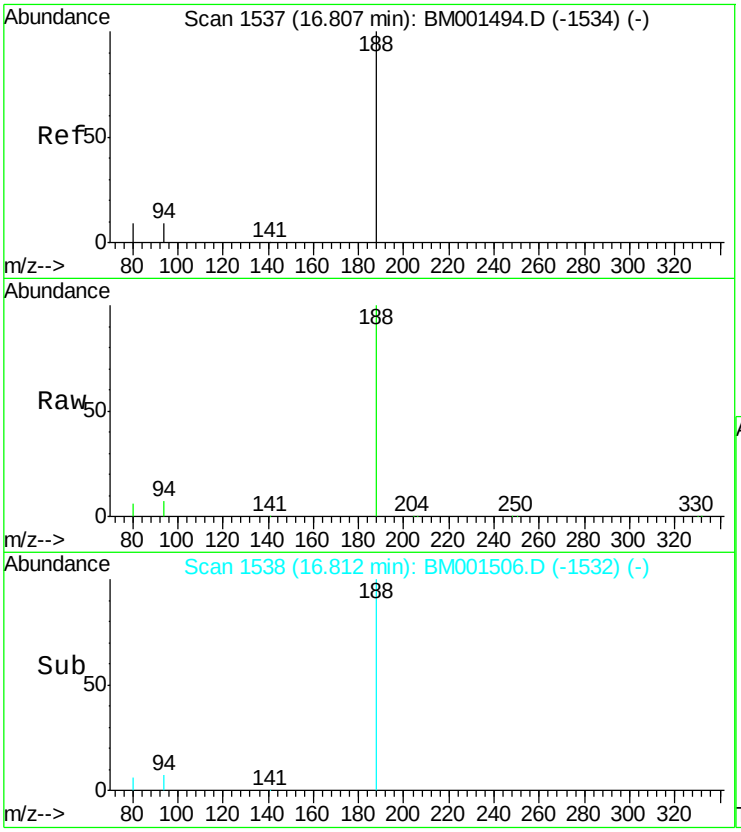




#14
4-Chlorophenyl-phenylether
Concen: 8.00 ng
RT: 15.11 min Scan# 1439
Delta R.T. 0.00 min
Lab File: BM001506.D
Acq: 31 May 2015 11:07

Tgt Ion:204 Resp: 32637

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 204 | 100 | | |
| 206 | 31.7 | 23.8 | 35.6 |
| 141 | 53.2 | 56.6 | 85.0# |



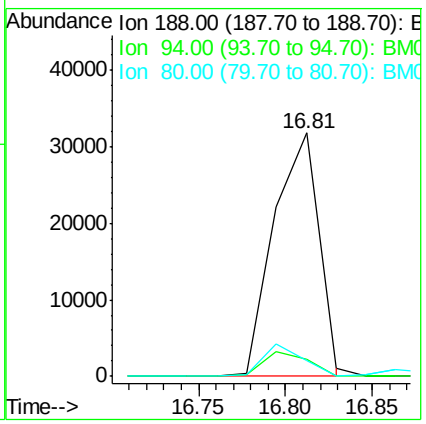


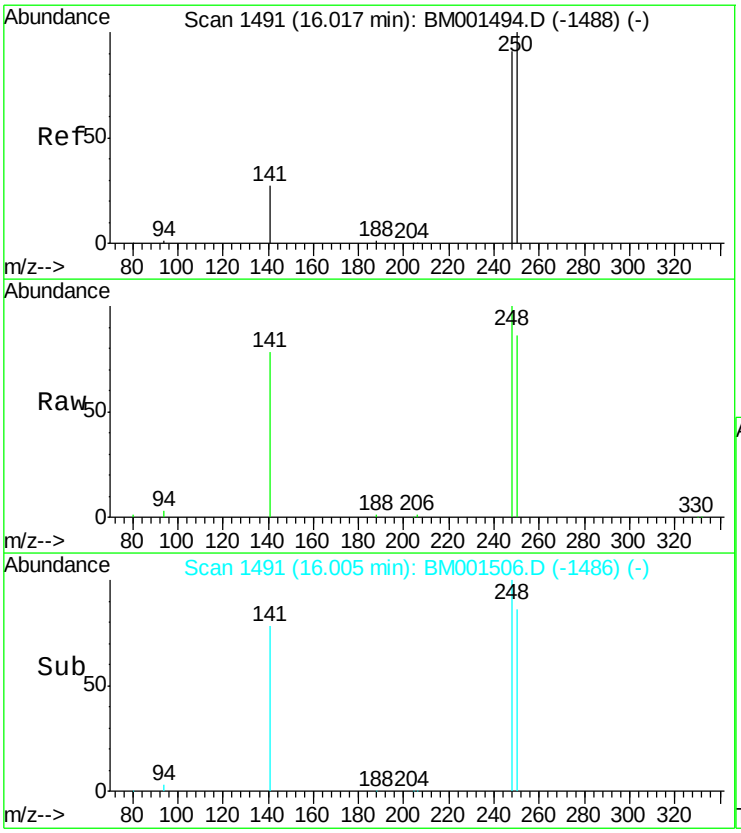

#15
Phenanthrene-d10
Concen: 5.00 ng
RT: 16.81 min Scan# 1538
Delta R.T. 0.00 min
Lab File: BM001506.D
Acq: 31 May 2015 11:07

**Instrument :**
BNA_M
**ClientSampleId :**
PB83689BS

Tgt Ion:188 Resp: 56839

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 6.9 | 7.1 | 10.7# |
| 80 | 6.3 | 7.3 | 10.9# |

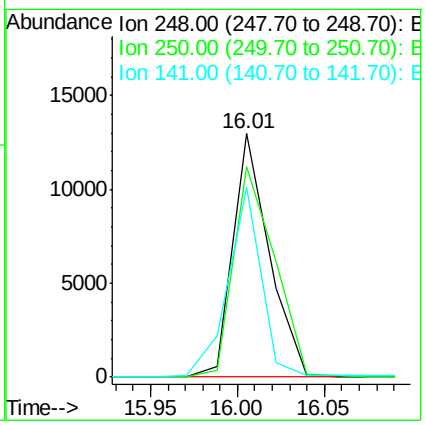


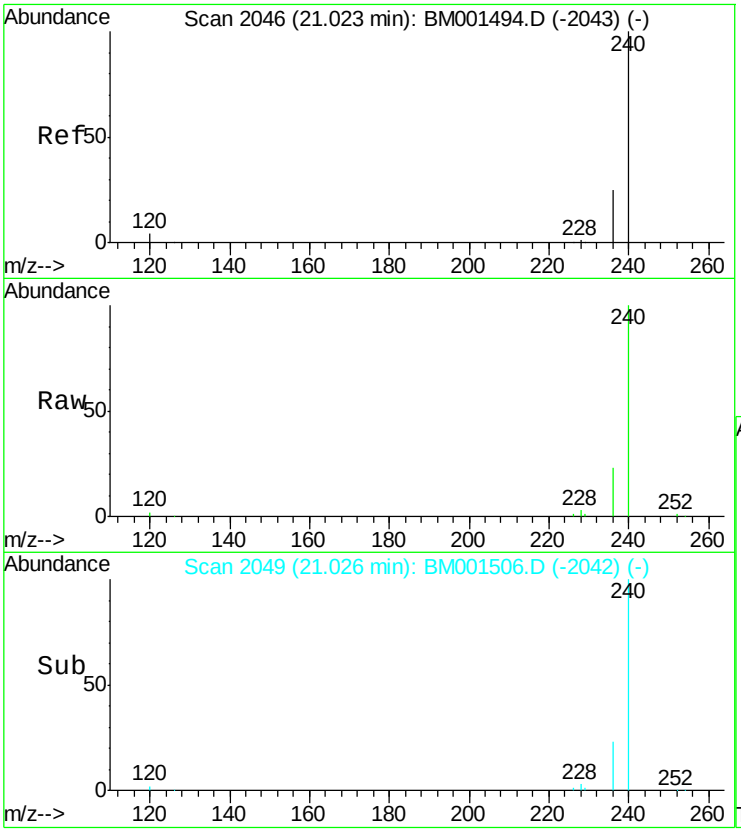




#16
4-Bromophenyl-phenylether
Concen: 7.92 ng
RT: 16.01 min Scan# 1491
Delta R.T. -0.01 min
Lab File: BM001506.D
Acq: 31 May 2015 11:07

Tgt Ion:248 Resp: 18757

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 86.1 | 87.3 | 130.9# |
| 141 | 78.0 | 25.8 | 38.8# |



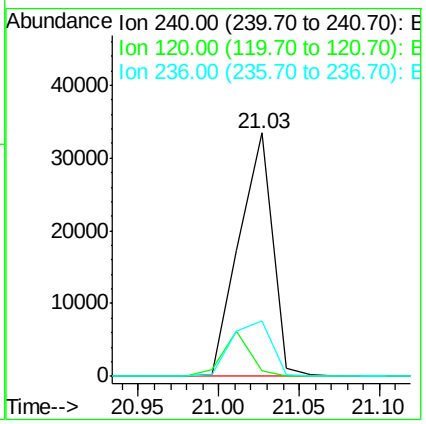


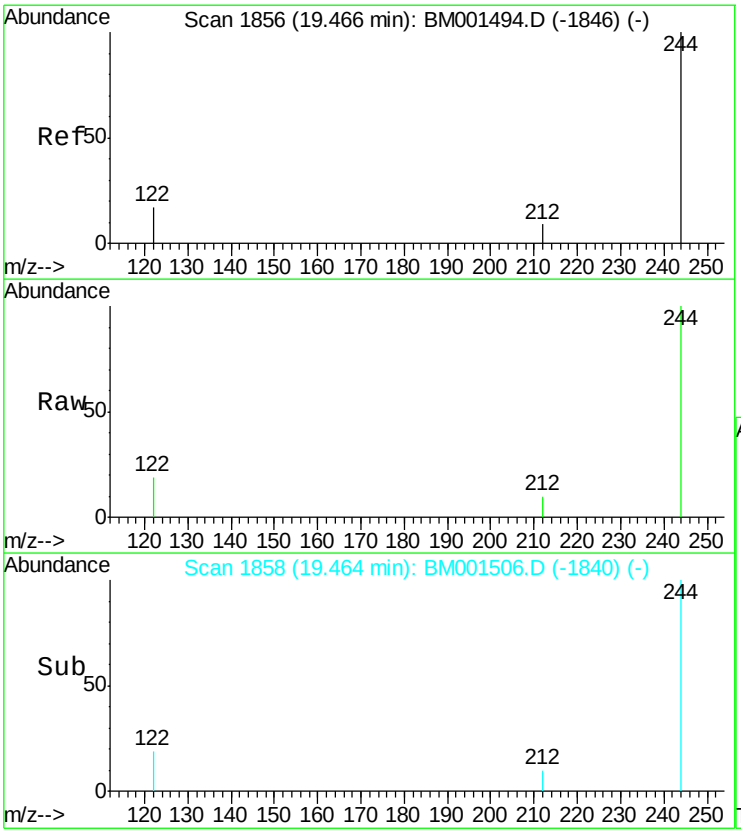

#17
Chrysene-d12
Concen: 5.00 ng
RT: 21.03 min Scan# 2049
Delta R.T. 0.00 min
Lab File: BM001506.D
Acq: 31 May 2015 11:07

**Instrument :**
BNA_M
**ClientSampleId :**
PB83689BS

Tgt Ion:240 Resp: 48454

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 2.5 | 3.7 | 5.5# |
| 236 | 22.7 | 19.8 | 29.8 |

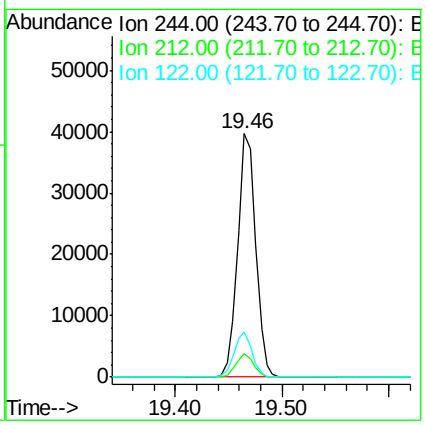


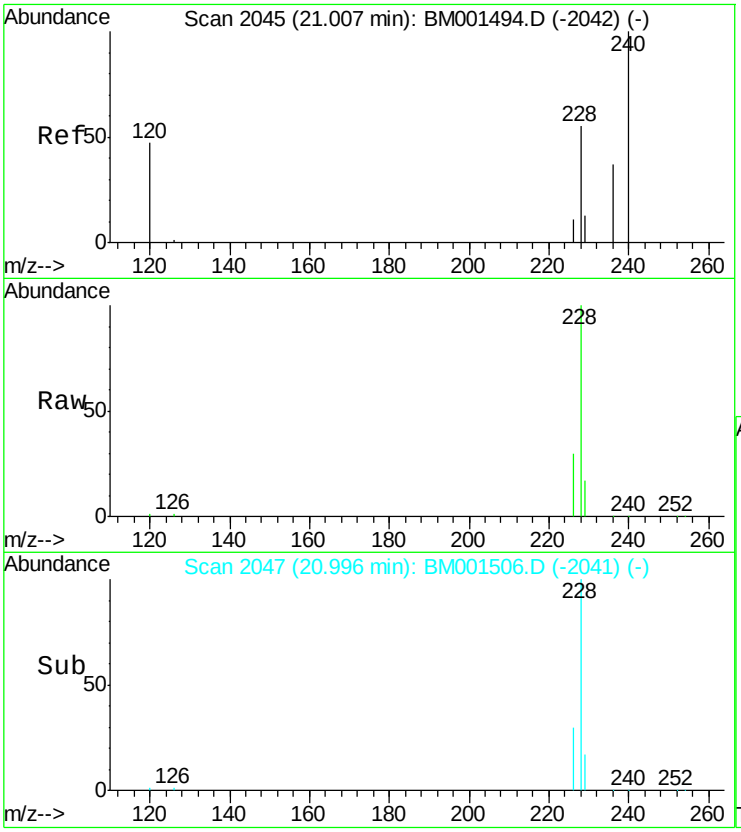




#18
Terphenyl-d14
Concen: 7.17 ng
RT: 19.46 min Scan# 1858
Delta R.T. -0.00 min
Lab File: BM001506.D
Acq: 31 May 2015 11:07

Tgt Ion:244 Resp: 46478

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.8 | 8.0 | 12.0 |
| 122 | 18.7 | 14.1 | 21.1 |



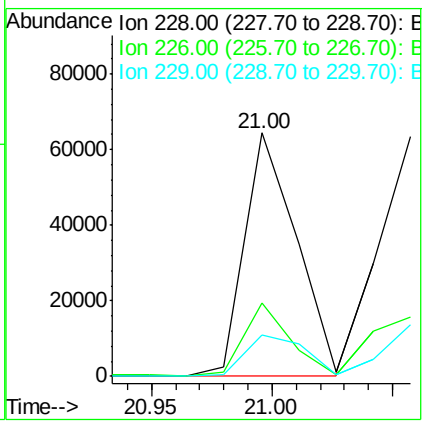


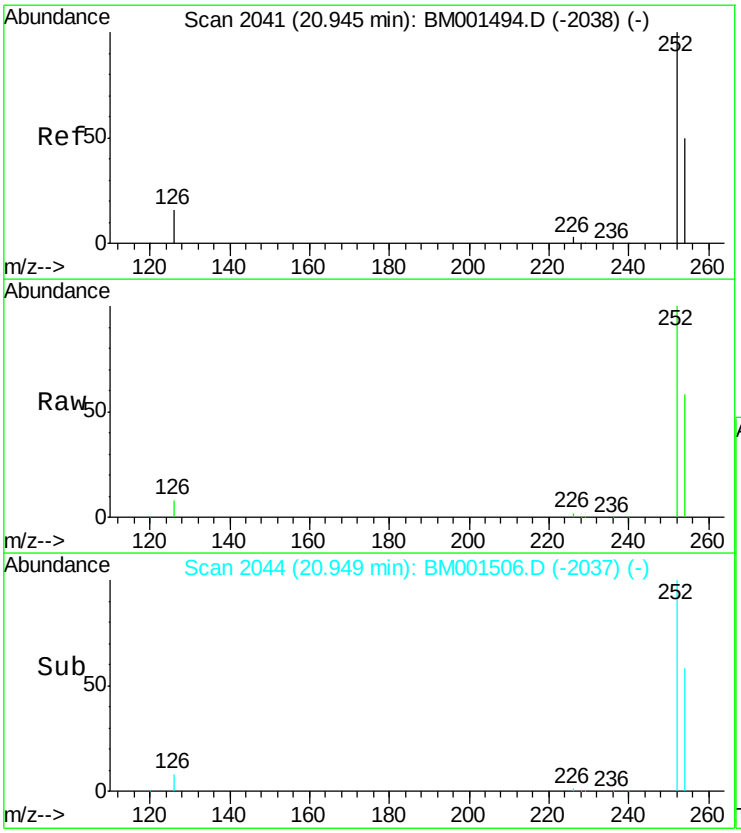

#19
Benzo(a)anthracene
Concen: 7.22 ng
RT: 21.00 min Scan# 2047
Delta R.T. -0.01 min
Lab File: BM001506.D
Acq: 31 May 2015 11:07

**Instrument :**
BNA_M
**ClientSampleId :**
PB83689BS

Tgt Ion:228 Resp: 95411

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.0 | 17.5 | 26.3# |
| 229 | 16.9 | 19.0 | 28.4# |

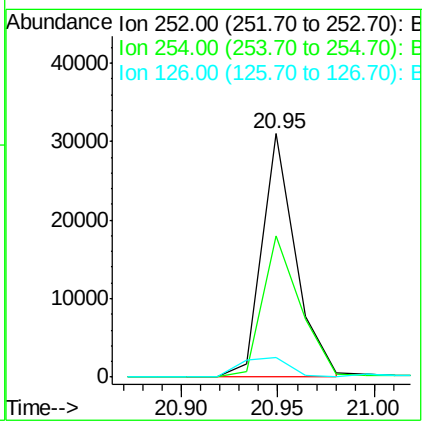


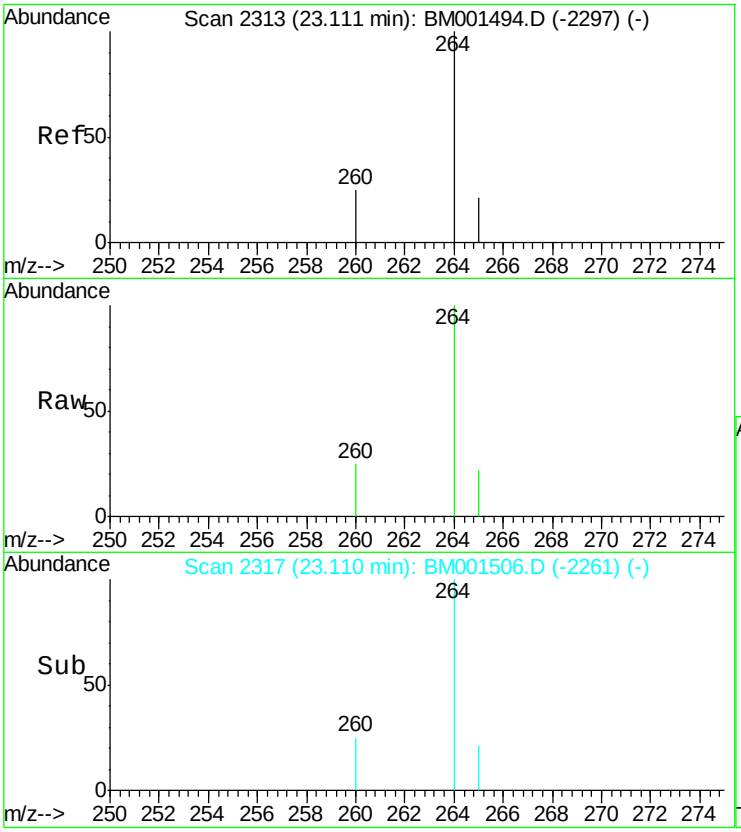




#20
3,3'-Dichlorobenzidine
Concen: 8.78 ng
RT: 20.95 min Scan# 2044
Delta R.T. 0.00 min
Lab File: BM001506.D
Acq: 31 May 2015 11:07

Tgt Ion:252 Resp: 37897

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 254 | 58.0 | 41.2 | 61.8 |
| 126 | 7.9 | 14.7 | 22.1# |






#21
Perylene-d12
Concen: 5.00 ng
RT: 23.11 min Scan# 2317
Delta R.T. -0.00 min
Lab File: BM001506.D
Acq: 31 May 2015 11:07

**Instrument :**
BNA_M
**ClientSampleId :**
PB83689BS

Tgt Ion:264 Resp: 41270

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 25.0 | 19.8 | 29.8 |
| 265 | 21.6 | 18.0 | 27.0 |