Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA F\DATA\BF062516\
Data File : BF088402.D
Acq On : 26 Jun 2016 5:33
Operator : UM/SJ
Sample : H3599-20DL 5X
Misc :
ALS Vial : 50 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PM-STA-1436(0-4)DL

Quant Time: Jun 26 06:36:57 2016
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 22 14:55:14 2016
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 6.56 | 152 | 89445m | 20.00 | ng | | -0.05 |
| 21) Naphthalene-d8 | 7.85 | 136 | 365488 | 20.00 | ng | | -0.05 |
| 38) Acenaphthene-d10 | 9.59 | 164 | 155788 | 20.00 | ng | | -0.06 |
| 63) Phenanthrene-d10 | 11.06 | 188 | 230881 | 20.00 | ng | | -0.06 |
| 75) Chrysene-d12 | 13.69 | 240 | 195720 | 20.00 | ng | | -0.06 |
| 86) Perylene-d12 | 15.05 | 264 | 157207 | 20.00 | ng | | -0.06 |
| **System Monitoring Compounds** | | | | | | | |
| 5) 2-Fluorophenol | 5.14 | 112 | 104619 | 20.00 | ng | | -0.03 |
| 7) Phenol-d6 | 6.23 | 99 | 129133 | 20.37 | ng | | -0.03 |
| 23) Nitrobenzene-d5 | 7.13 | 82 | 80731 | 12.90 | ng | | -0.05 |
| 41) 2,4,6-Tribromophenol | 10.38 | 330 | 21502 | 13.07 | ng | | -0.06 |
| 44) 2-Fluorobiphenyl | 8.92 | 172 | 174799 | 12.93 | ng | | -0.05 |
| 78) Terphenyl-d14 | 12.65 | 244 | 102199 | 11.88 | ng | | -0.05 |
| **Target Compounds** | | | | | | | Qvalue |
| 48) Acenaphthylene | 9.45 | 152 | 49704 | 3.10 | ng | | 100 |
| 49) Dimethylphthalate | 9.32 | 163 | 22815 | 2.02 | ng | | 99 |
| 70) Phenanthrene | 11.08 | 178 | 67848 | 5.60 | ng | | 97 |
| 71) Anthracene | 11.14 | 178 | 48129 | 3.94 | ng | | 98 |
| 74) Fluoranthene | 12.27 | 202 | 278070 | 21.75 | ng | | 96 |
| 77) Pyrene | 12.49 | 202 | 265433 | 18.28 | ng | | 97 |
| 80) Benzo(a)anthracene | 13.68 | 228 | 173415 | 15.55 | ng | | 97 |
| 82) Chrysene | 13.71 | 228 | 132512m | 12.63 | ng | | |
| 85) Indeno(1,2,3-cd)pyrene | 16.29 | 276 | 47691 | 4.89 | ng | # | 100 |
| 87) Benzo(b)fluoranthene | 14.69 | 252 | 154544m | 14.10 | ng | | |
| 88) Benzo(k)fluoranthene | 14.70 | 252 | 76349m | 9.24 | ng | | |
| 89) Benzo(a)pyrene | 14.99 | 252 | 96323 | 10.87 | ng | | 98 |
| 91) Benzo(g,h,i)perylene | 16.65 | 276 | 38285 | 4.52 | ng | | 98 |

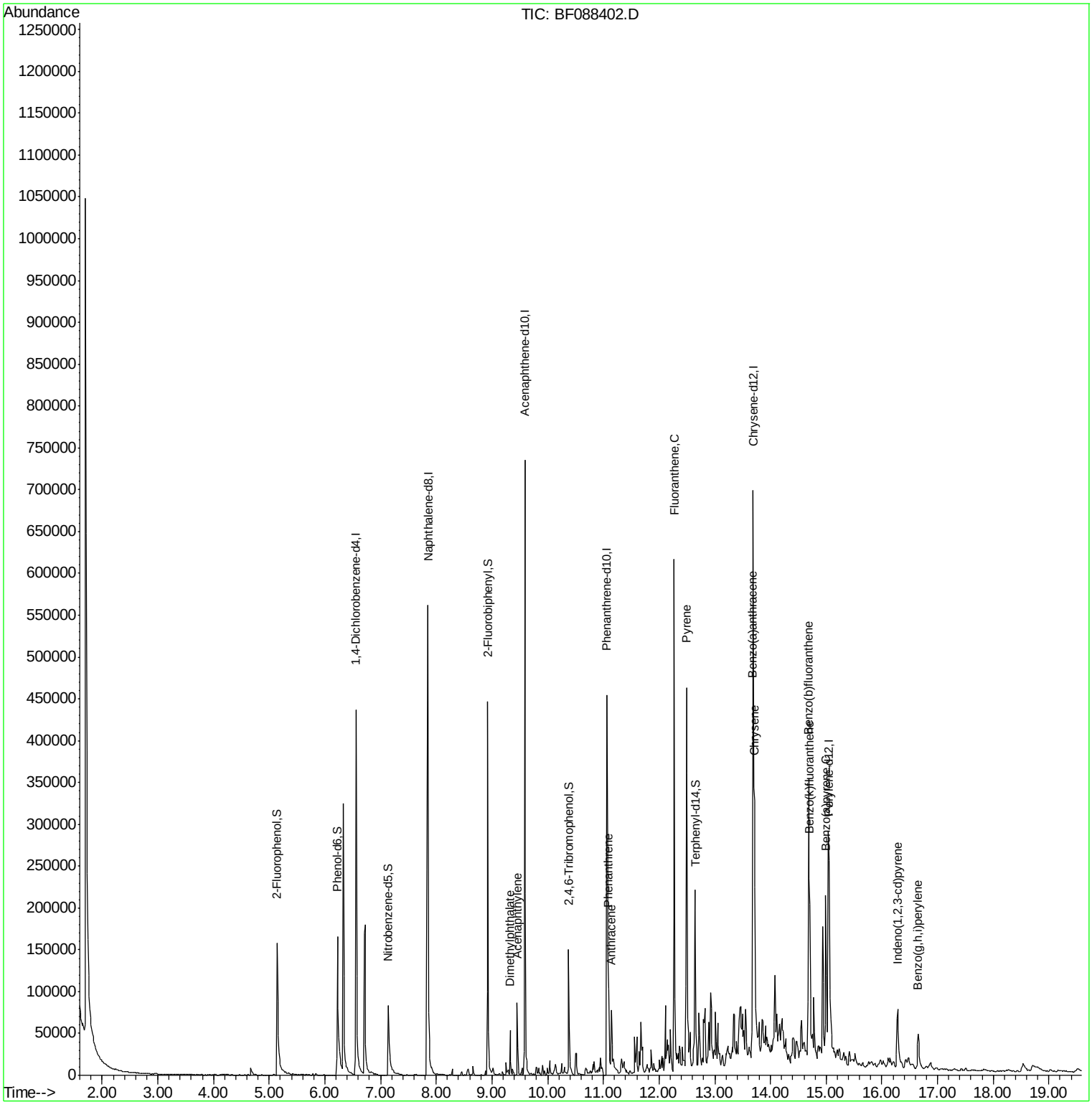
(#) = qualifier out of range (m) = manual integration (+) = signals summed

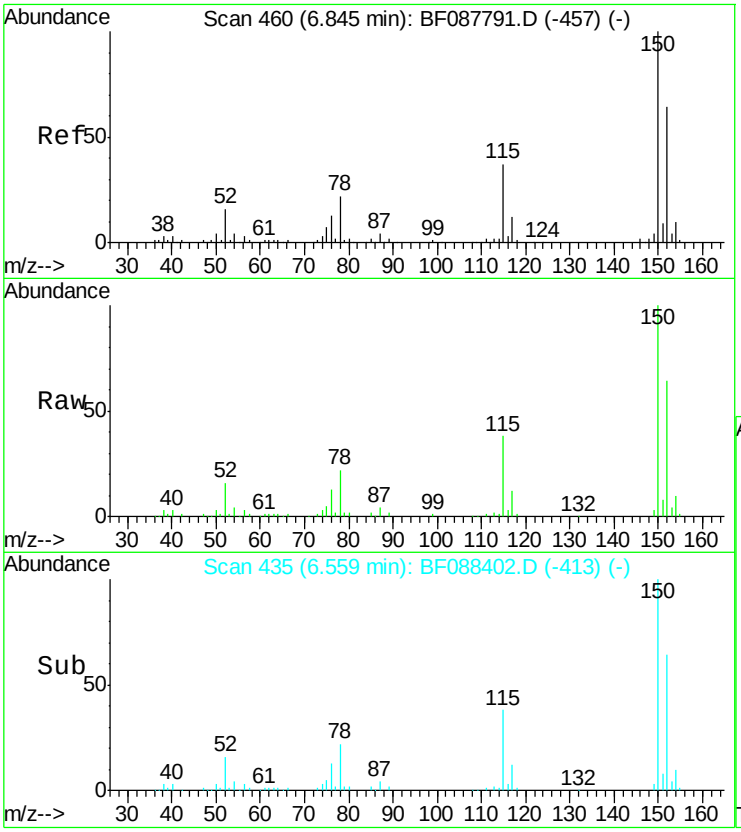
Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA F\DATA\BF062516\
Data File : BF088402.D
Acq On : 26 Jun 2016 5:33
Operator : UM/SJ
Sample : H3599-20DL 5X
Misc :
ALS Vial : 50 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PM-STA-1436(0-4)DL

Quant Time: Jun 26 06:36:57 2016
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 22 14:55:14 2016
Response via : Initial Calibration



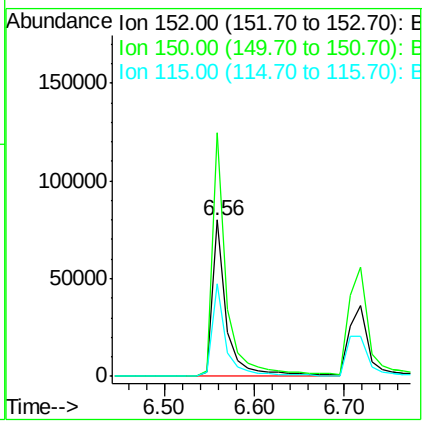


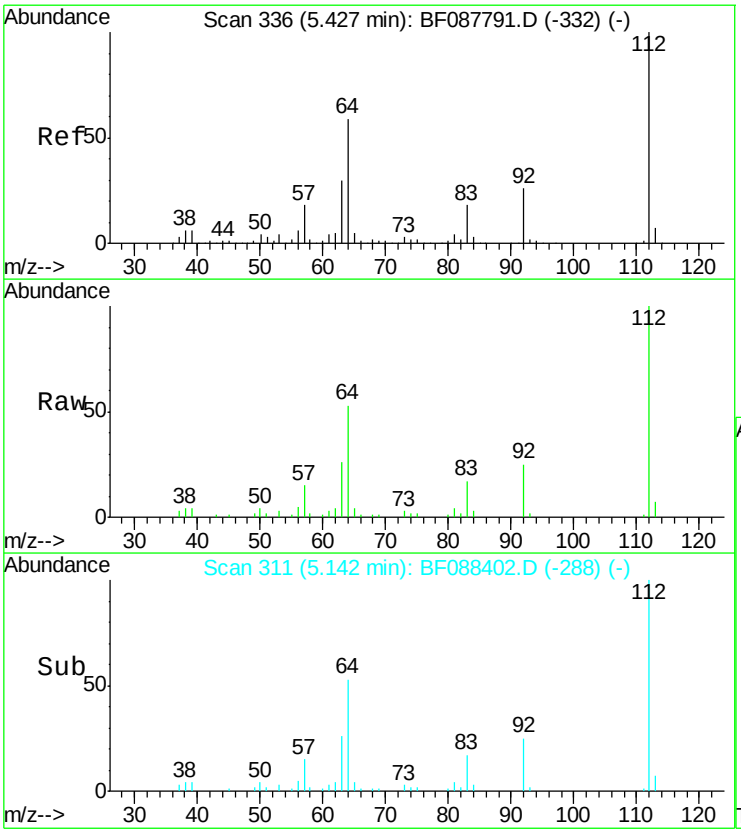

#1
1,4-Dichlorobenzene-d4
Concen: 20.00 ng m
RT: 6.56 min Scan# 435
Delta R.T. -0.05 min
Lab File: BF088402.D
Acq: 26 Jun 2016 5:33

**Instrument :**
BNA_F
**ClientSampleId :**
PM-STA-1436(0-4)DL

Tgt Ion:152 Resp: 89445

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 155.5 | 123.8 | 185.6 |
| 115 | 59.5 | 39.6 | 59.4# |

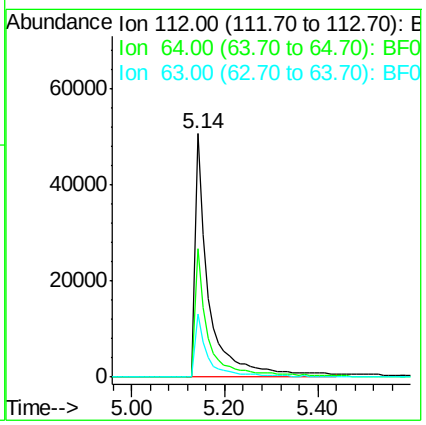


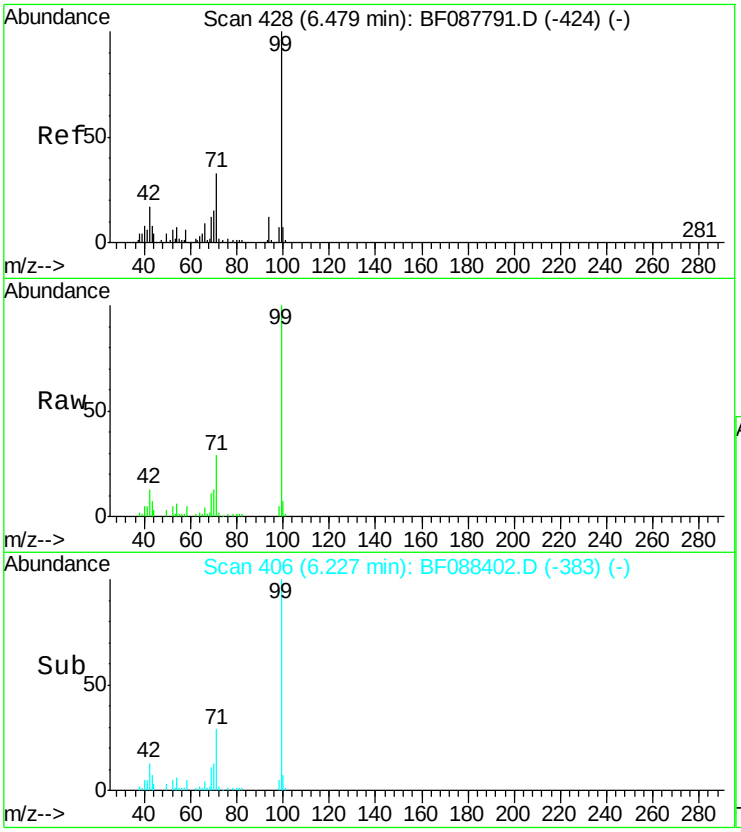




#5
2-Fluorophenol
Concen: 20.00 ng
RT: 5.14 min Scan# 311
Delta R.T. -0.03 min
Lab File: BF088402.D
Acq: 26 Jun 2016 5:33

Tgt Ion:112 Resp: 104619

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 52.8 | 42.2 | 63.2 |
| 63 | 26.0 | 21.8 | 32.8 |



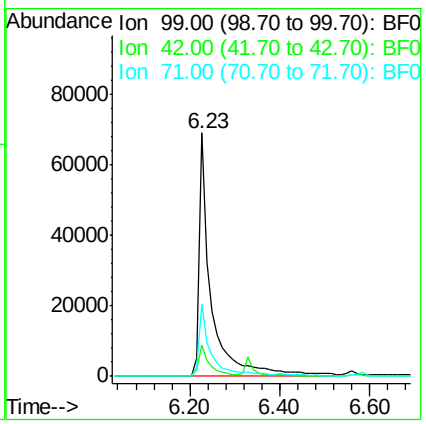


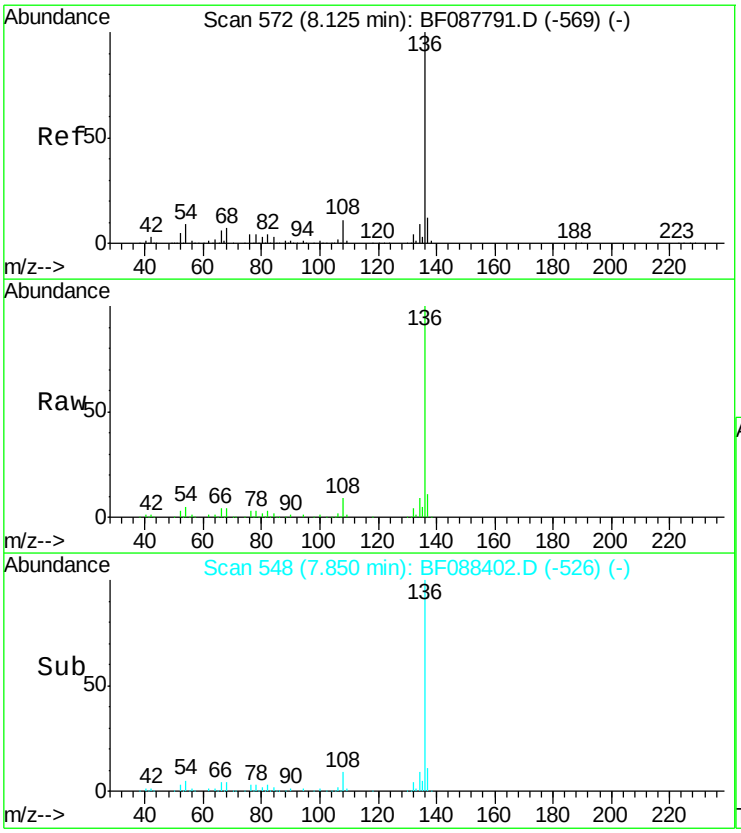

#7
Phenol-d6
Concen: 20.37 ng
RT: 6.23 min Scan# 406
Delta R.T. -0.03 min
Lab File: BF088402.D
Acq: 26 Jun 2016 5:33

**Instrument :**
BNA_F
**ClientSampleId :**
PM-STA-1436(0-4)DL

Tgt Ion: 99 Resp: 129133

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 12.8 | 12.2 | 18.2 |
| 71 | 29.4 | 23.4 | 35.0 |

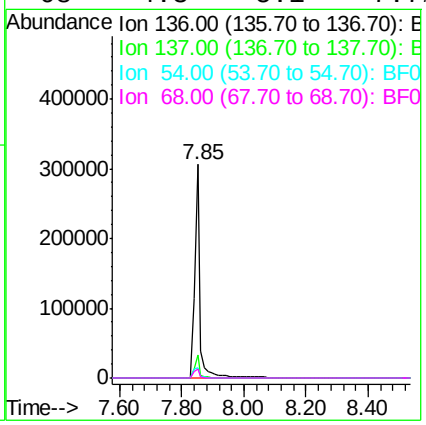


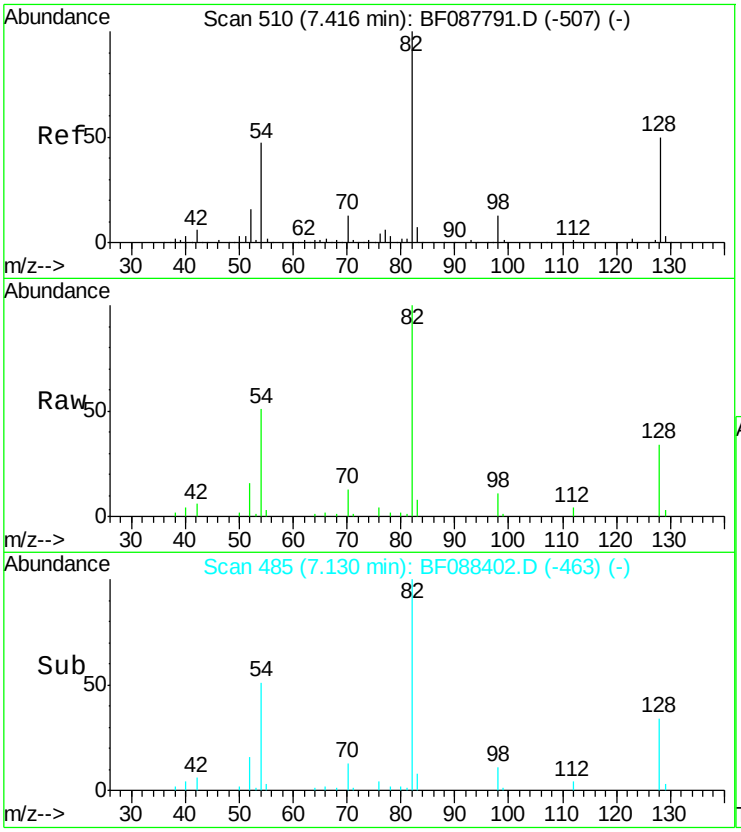




#21
Naphthalene-d8
Concen: 20.00 ng
RT: 7.85 min Scan# 548
Delta R.T. -0.05 min
Lab File: BF088402.D
Acq: 26 Jun 2016 5:33

Tgt Ion:136 Resp: 365488

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 10.7 | 9.1 | 13.7 |
| 54 | 5.1 | 6.6 | 10.0# |
| 68 | 4.3 | 5.1 | 7.7# |



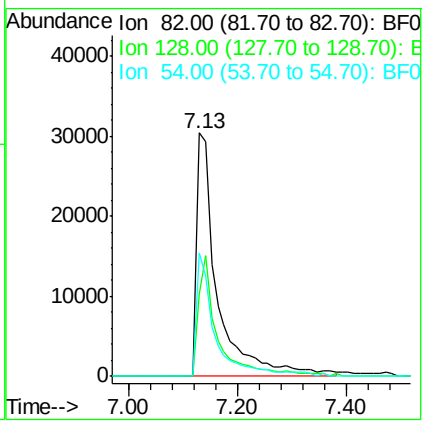


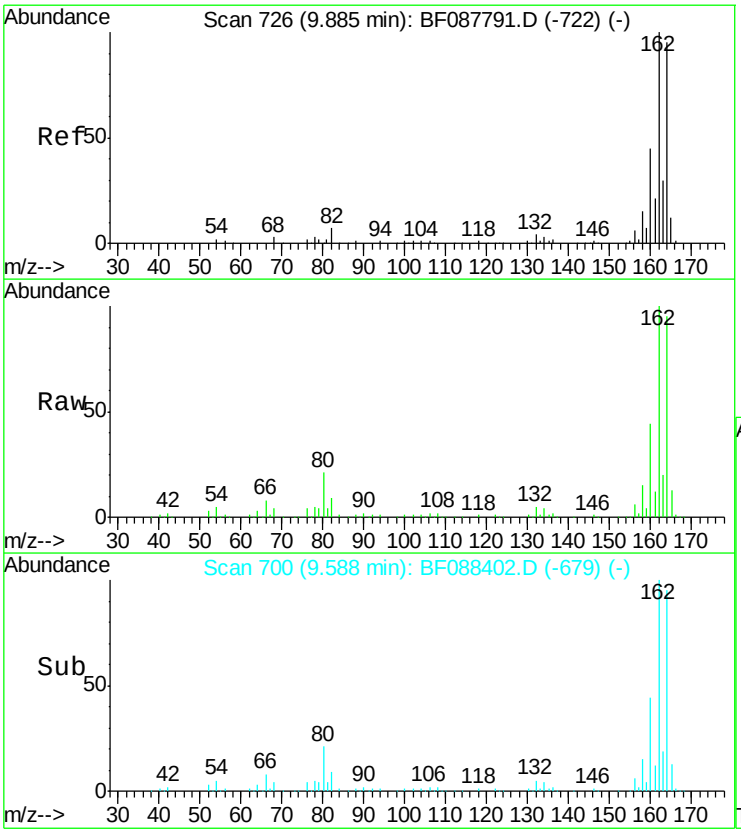

#23
Nitrobenzene-d5
Concen: 12.90 ng
RT: 7.13 min Scan# 485
Delta R.T. -0.05 min
Lab File: BF088402.D
Acq: 26 Jun 2016 5:33

**Instrument :**
BNA_F
**ClientSampleId :**
PM-STA-1436(0-4)DL

Tgt Ion: 82 Resp: 80731

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 33.8 | 35.9 | 53.9# |
| 54 | 50.9 | 40.9 | 61.3 |

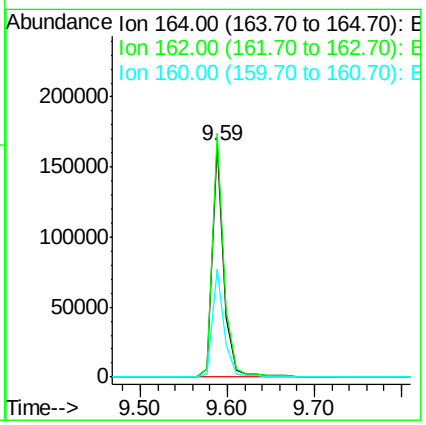


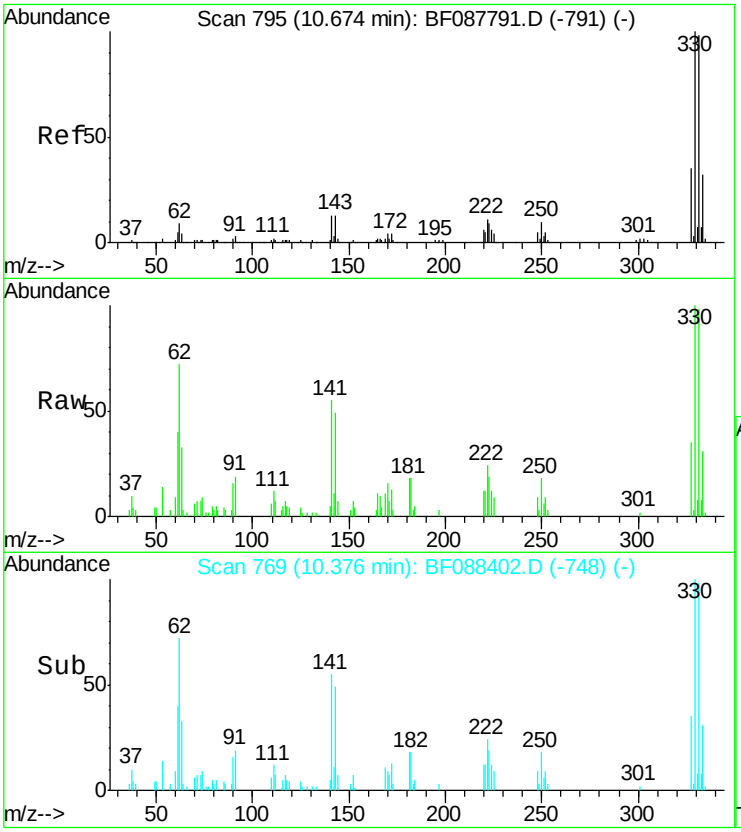




#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.59 min Scan# 700
Delta R.T. -0.06 min
Lab File: BF088402.D
Acq: 26 Jun 2016 5:33

Tgt Ion:164 Resp: 155788

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 105.1 | 85.4 | 128.2 |
| 160 | 46.7 | 39.5 | 59.3 |



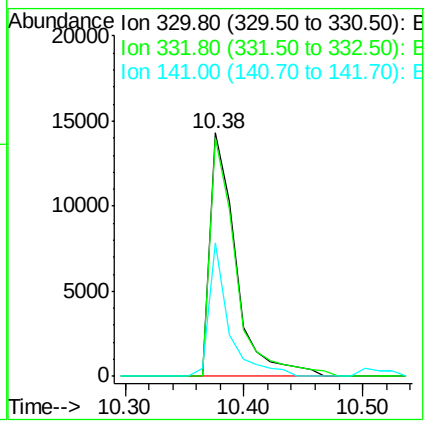


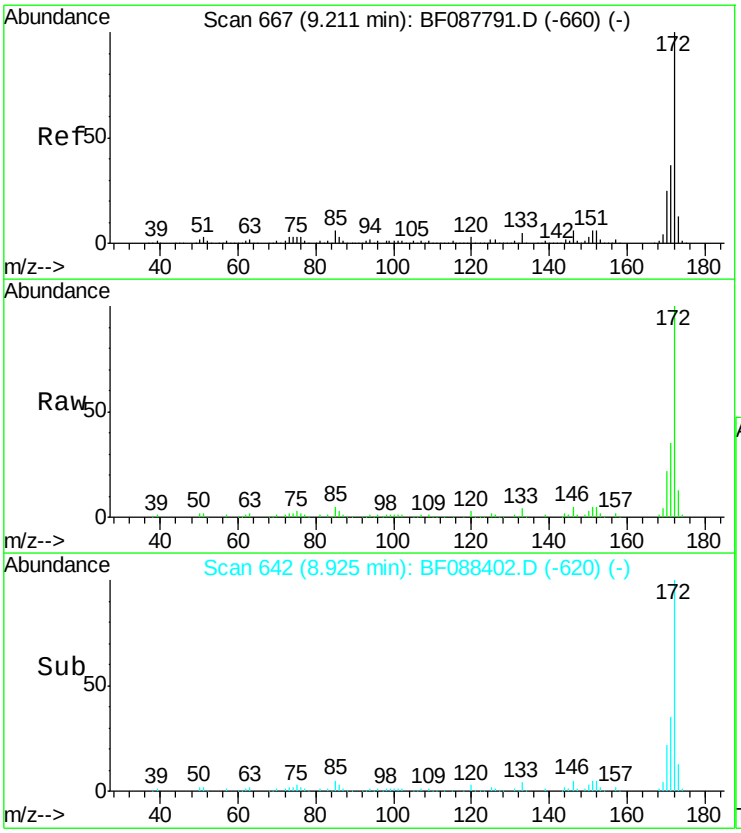

#41
2,4,6-Tribromophenol
Concen: 13.07 ng
RT: 10.38 min Scan# 769
Delta R.T. -0.06 min
Lab File: BF088402.D
Acq: 26 Jun 2016 5:33

**Instrument :**
BNA_F
**ClientSampleId :**
PM-STA-1436(0-4)DL

Tgt Ion:330 Resp: 21502

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 98.3 | 0.0 | 0.0# |
| 141 | 42.3 | 0.0 | 0.0# |

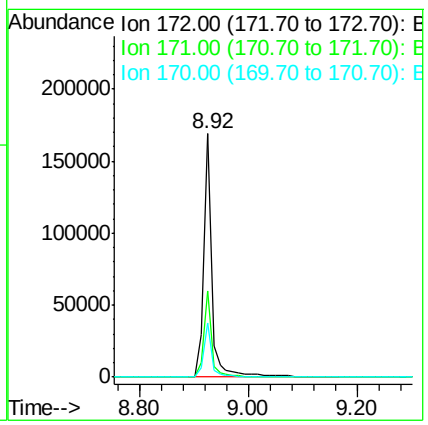


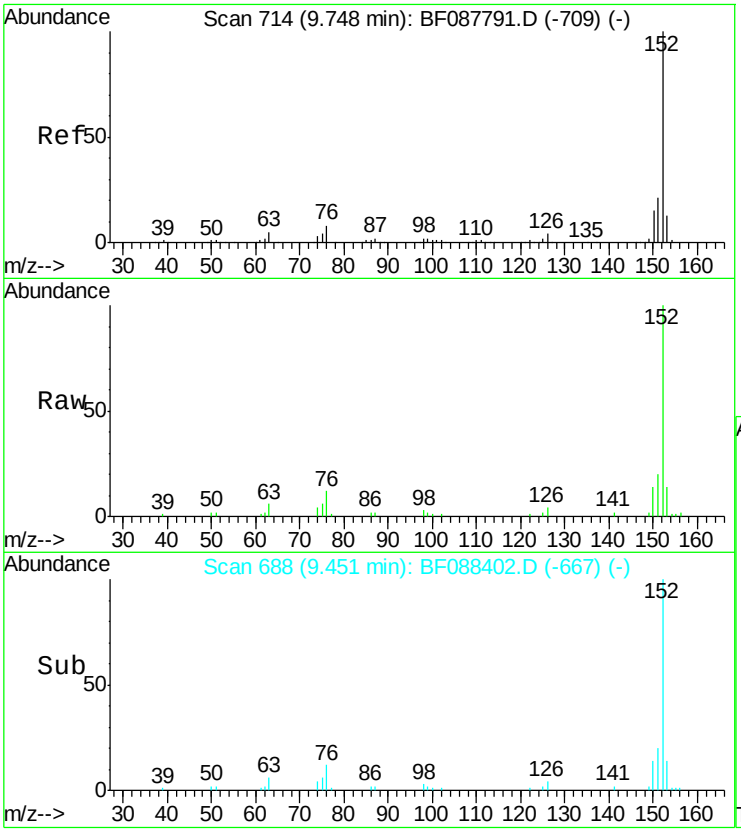




#44
2-Fluorobiphenyl
Concen: 12.93 ng
RT: 8.92 min Scan# 642
Delta R.T. -0.05 min
Lab File: BF088402.D
Acq: 26 Jun 2016 5:33

Tgt Ion:172 Resp: 174799

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.5 | 28.6 | 43.0 |
| 170 | 22.4 | 19.2 | 28.8 |



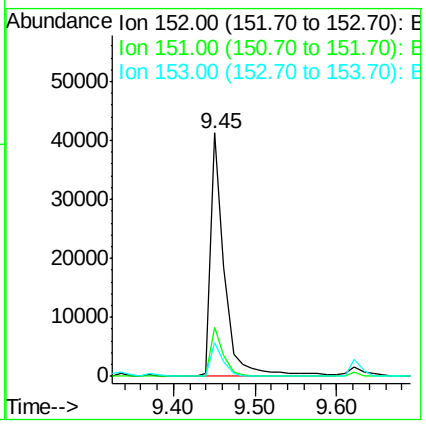


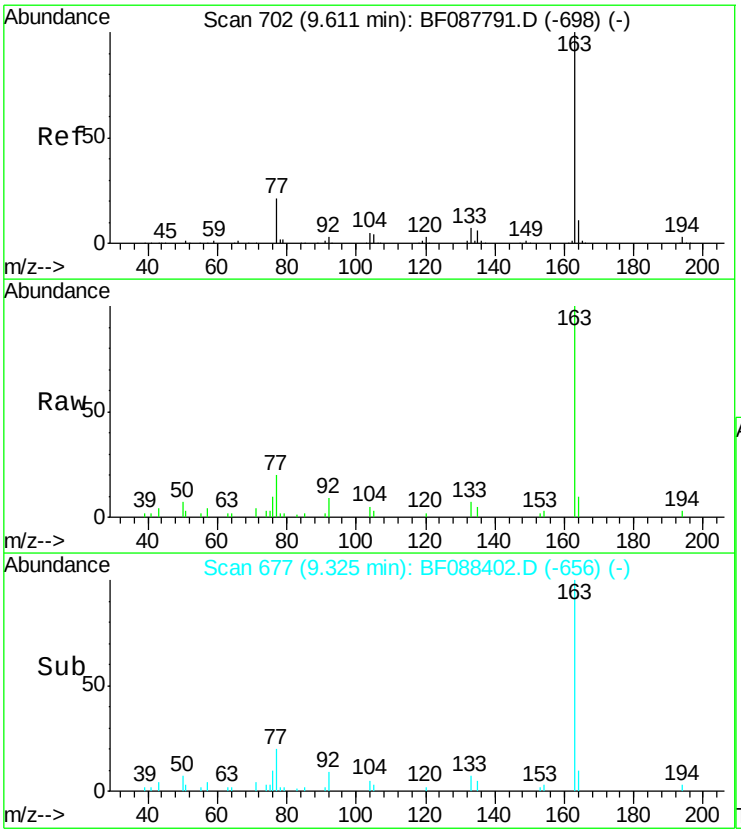

#48
Acenaphthylene
Concen: 3.10 ng
RT: 9.45 min Scan# 688
Delta R.T. -0.06 min
Lab File: BF088402.D
Acq: 26 Jun 2016 5:33

**Instrument :**
BNA_F
**ClientSampleId :**
PM-STA-1436(0-4)DL

Tgt Ion:152 Resp: 49704

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.2 | 16.2 | 24.4 |
| 153 | 13.6 | 11.0 | 16.6 |

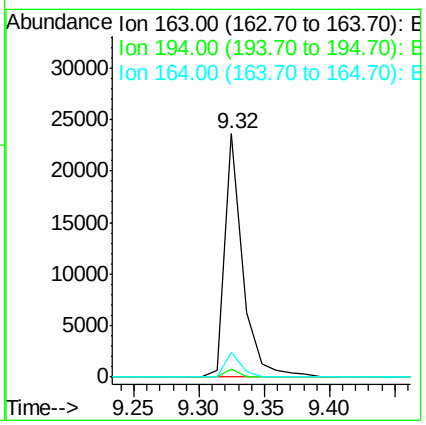


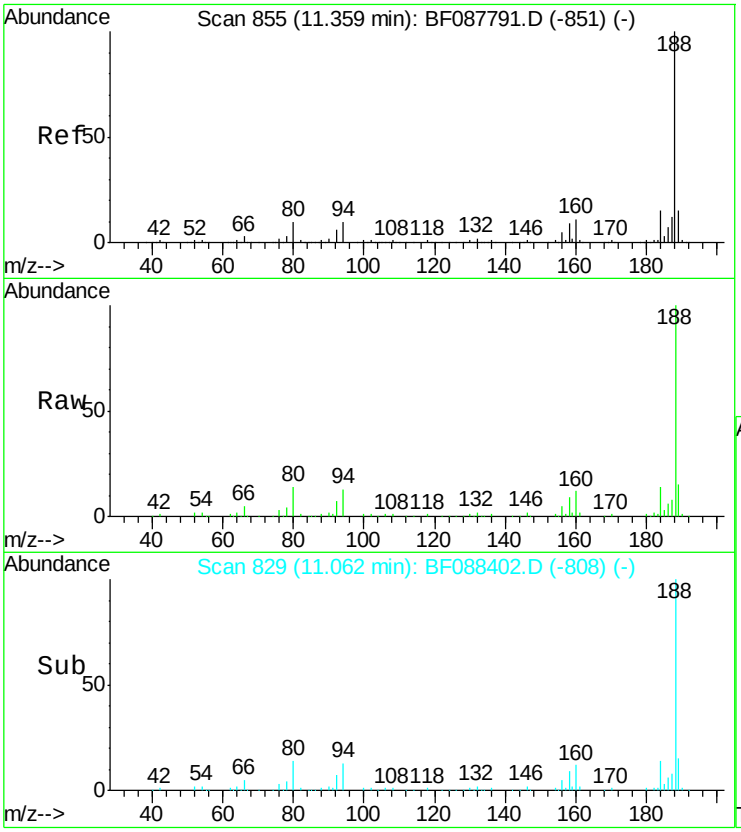




#49
Dimethylphthalate
Concen: 2.02 ng
RT: 9.32 min Scan# 677
Delta R.T. -0.06 min
Lab File: BF088402.D
Acq: 26 Jun 2016 5:33

Tgt Ion:163 Resp: 22815

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 163 | 100 | | |
| 194 | 3.5 | 2.8 | 4.2 |
| 164 | 10.0 | 8.3 | 12.5 |



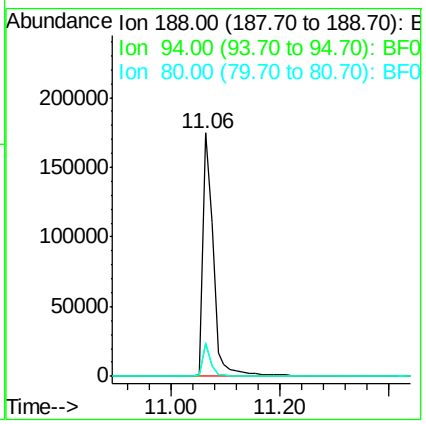


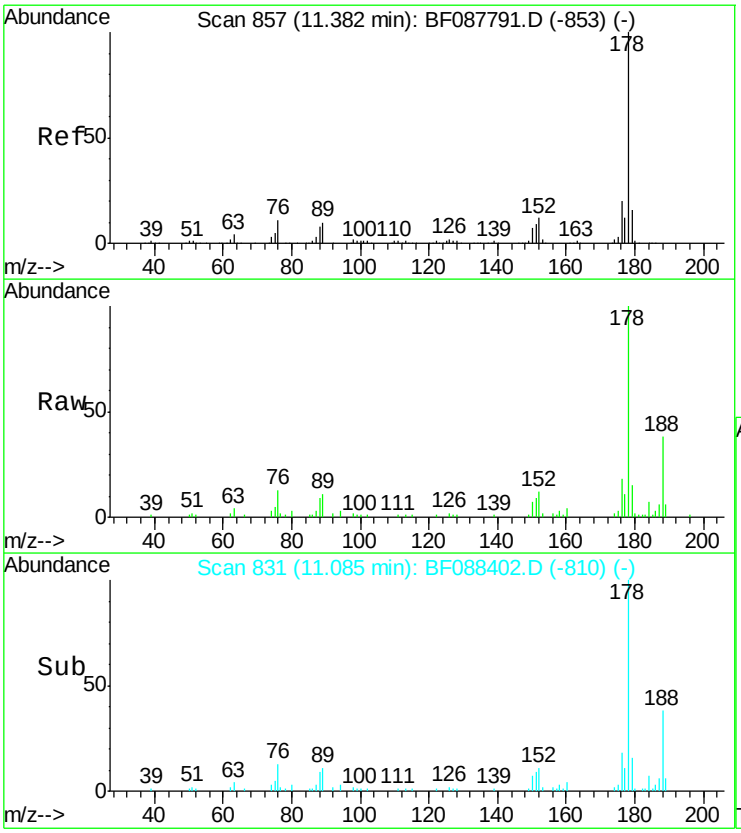

#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.06 min Scan# 829
Delta R.T. -0.06 min
Lab File: BF088402.D
Acq: 26 Jun 2016 5:33

**Instrument :**
BNA_F
**ClientSampleId :**
PM-STA-1436(0-4)DL

Tgt Ion:188 Resp: 230881

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 13.2 | 9.0 | 13.6 |
| 80 | 13.7 | 10.0 | 15.0 |

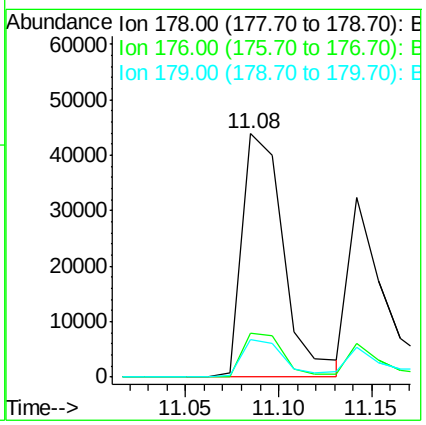


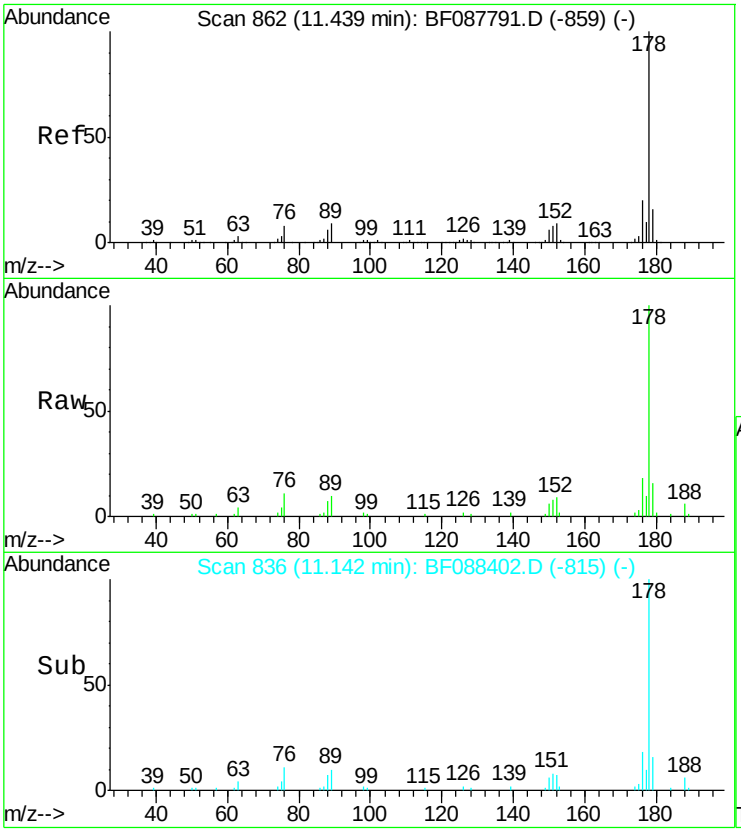




#70
Phenanthrene
Concen: 5.60 ng
RT: 11.08 min Scan# 831
Delta R.T. -0.06 min
Lab File: BF088402.D
Acq: 26 Jun 2016 5:33

Tgt Ion:178 Resp: 67848

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 17.9 | 15.8 | 23.6 |
| 179 | 15.3 | 13.0 | 19.4 |



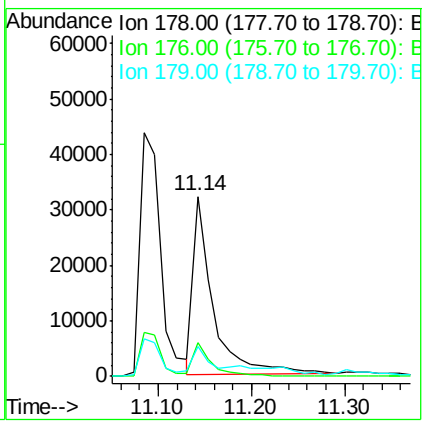


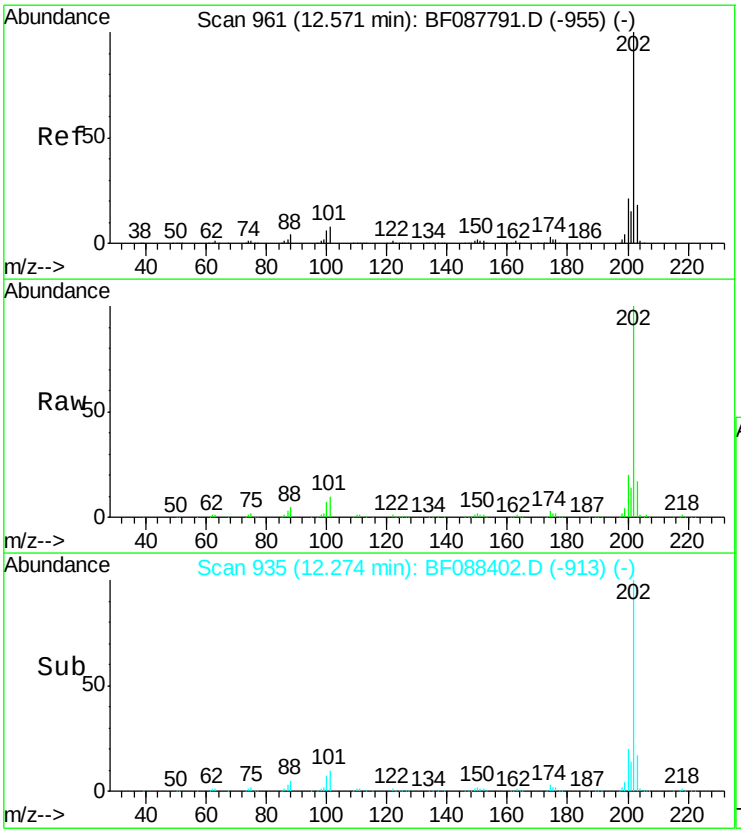

#71
Anthracene
Concen: 3.94 ng
RT: 11.14 min Scan# 836
Delta R.T. -0.06 min
Lab File: BF088402.D
Acq: 26 Jun 2016 5:33

**Instrument :**
BNA_F
**ClientSampleId :**
PM-STA-1436(0-4)DL

Tgt Ion:178 Resp: 48129

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.5 | 15.6 | 23.4 |
| 179 | 16.2 | 12.8 | 19.2 |

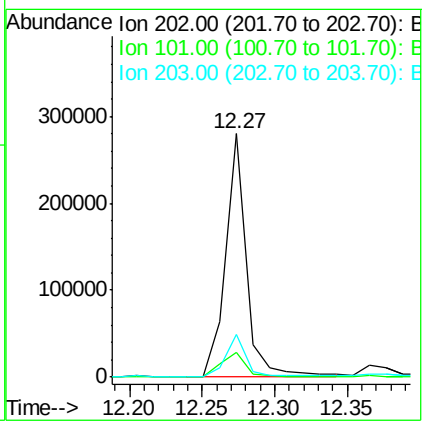


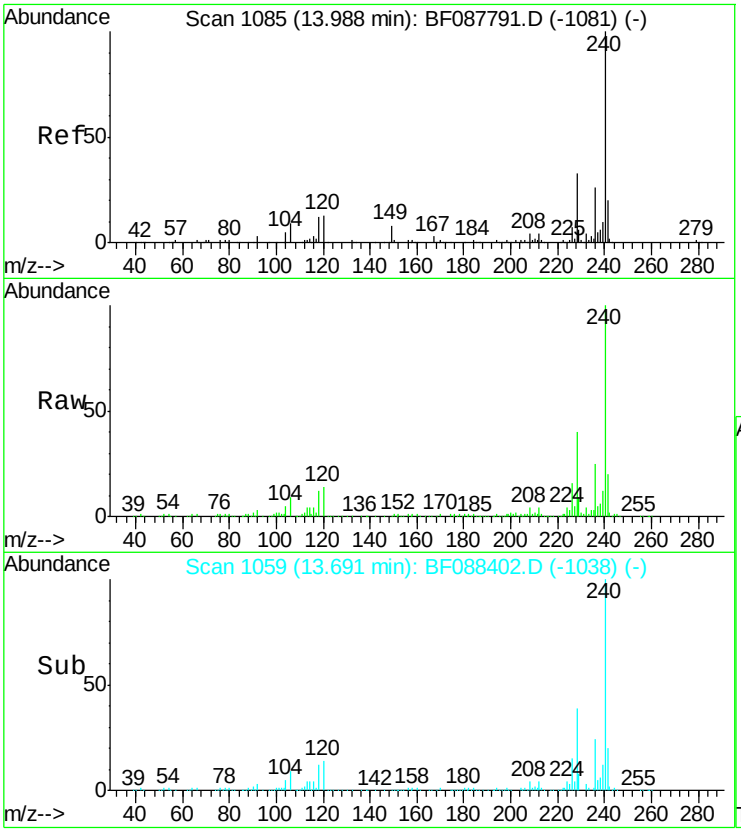




#74
Fluoranthene
Concen: 21.75 ng
RT: 12.27 min Scan# 935
Delta R.T. -0.05 min
Lab File: BF088402.D
Acq: 26 Jun 2016 5:33

Tgt Ion:202 Resp: 278070

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 9.9 | 0.0 | 33.1 |
| 203 | 17.4 | 0.0 | 38.1 |



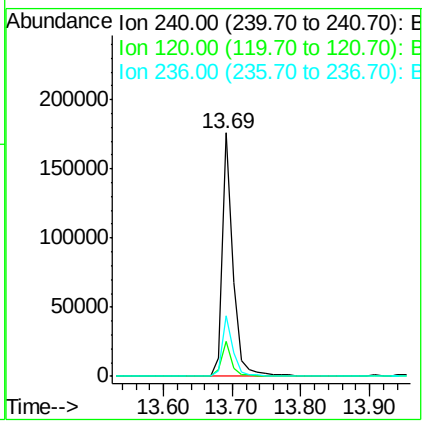


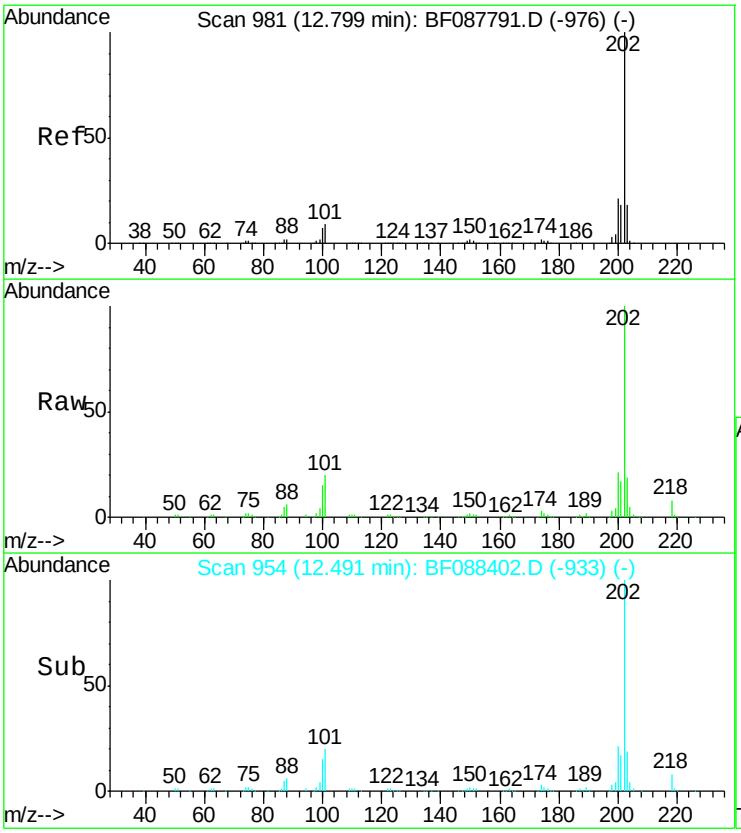

#75
Chrysene-d12
Concen: 20.00 ng
RT: 13.69 min Scan# 1059
Delta R.T. -0.06 min
Lab File: BF088402.D
Acq: 26 Jun 2016 5:33

**Instrument :**
BNA_F
**ClientSampleId :**
PM-STA-1436(0-4)DL

Tgt Ion:240 Resp: 195720

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 14.2 | 6.8 | 10.2# |
| 236 | 24.8 | 20.2 | 30.2 |

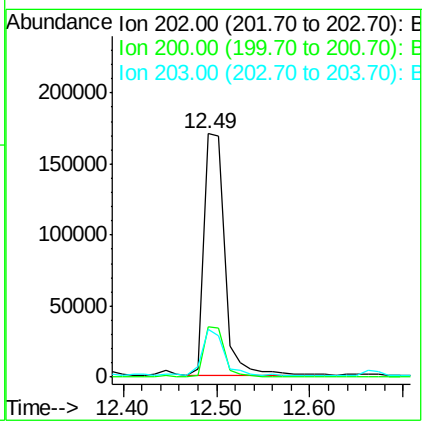


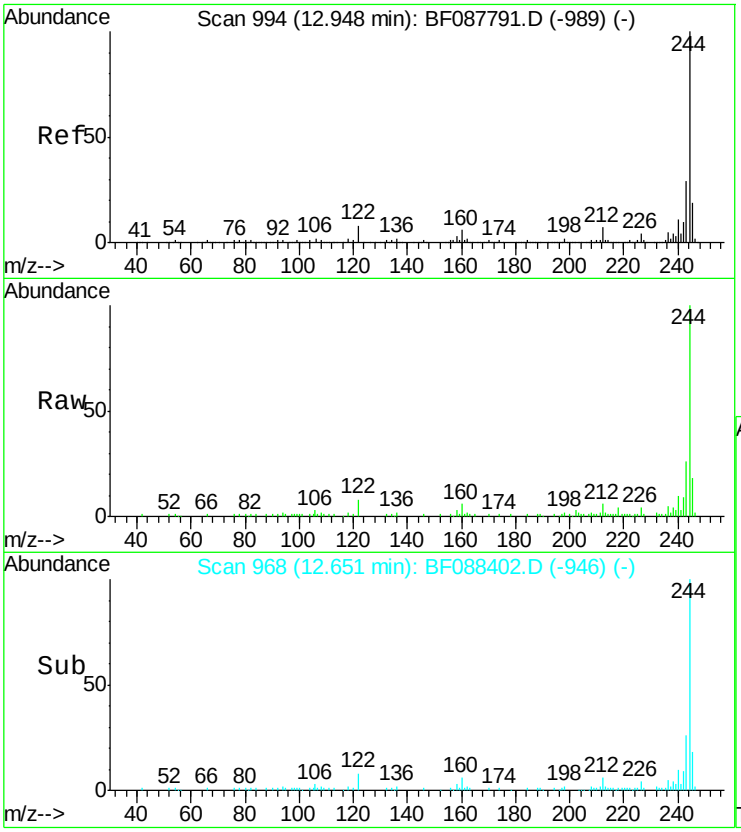




#77
Pyrene
Concen: 18.28 ng
RT: 12.49 min Scan# 954
Delta R.T. -0.06 min
Lab File: BF088402.D
Acq: 26 Jun 2016 5:33

Tgt Ion:202 Resp: 265433

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 20.8 | 17.4 | 26.2 |
| 203 | 19.5 | 14.5 | 21.7 |



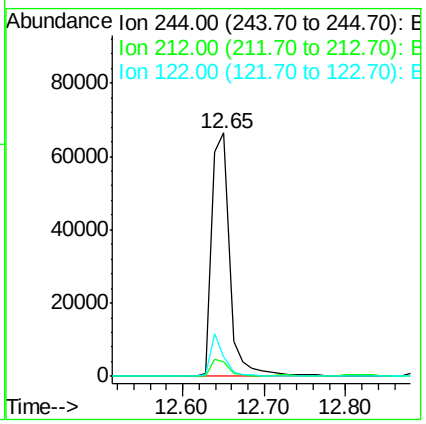


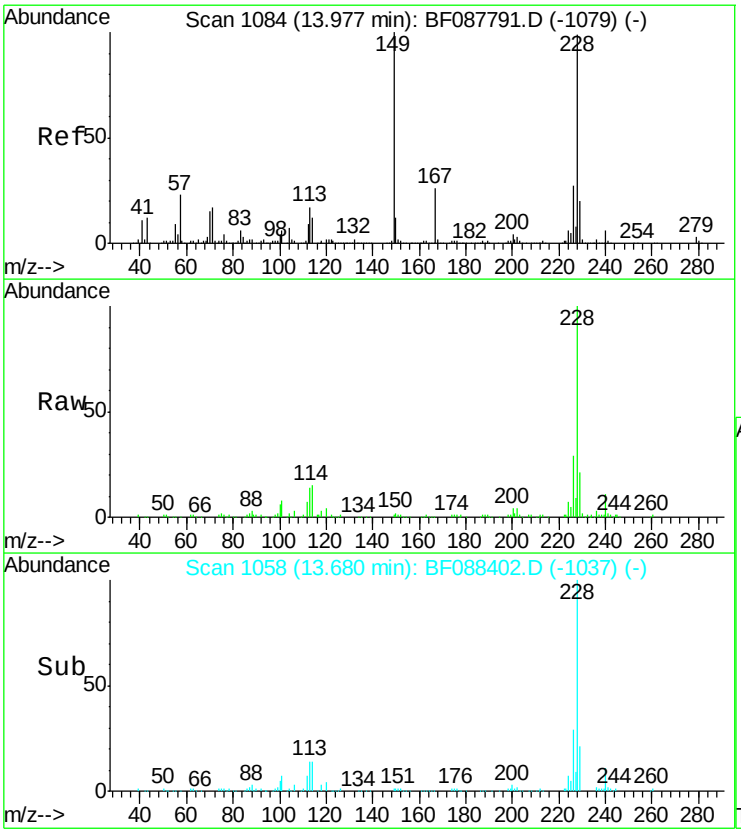

#78
Terphenyl-d14
Concen: 11.88 ng
RT: 12.65 min Scan# 968
Delta R.T. -0.05 min
Lab File: BF088402.D
Acq: 26 Jun 2016 5:33

**Instrument :**
BNA_F
**ClientSampleId :**
PM-STA-1436(0-4)DL

Tgt Ion:244 Resp: 102199

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 6.2 | 6.0 | 9.0 |
| 122 | 8.2 | 11.2 | 16.8# |

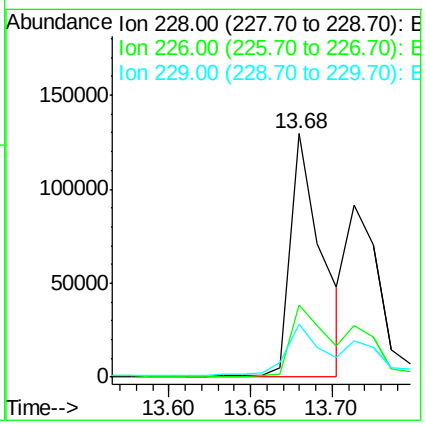


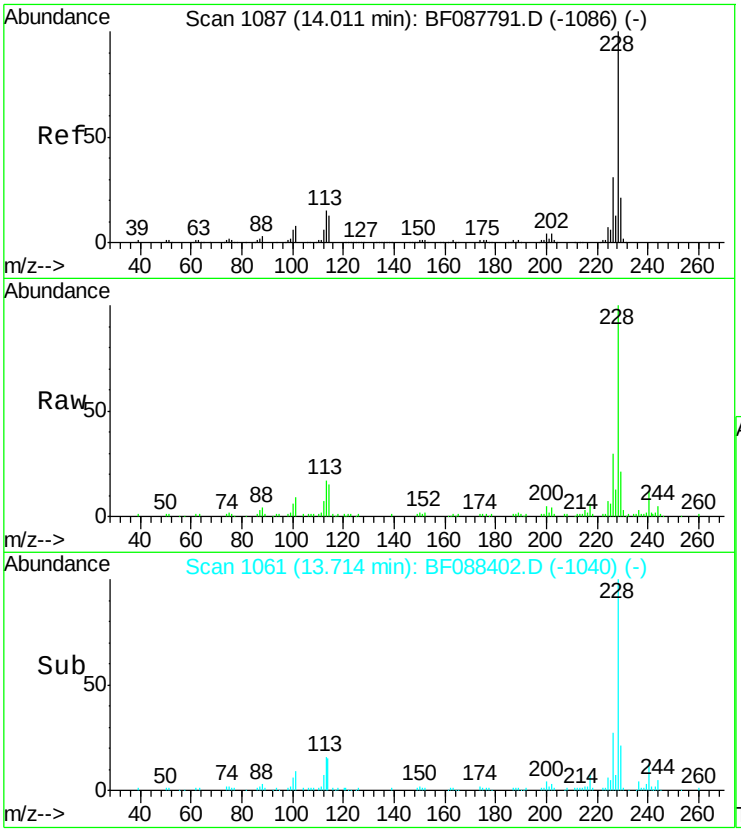




#80
Benzo(a)anthracene
Concen: 15.55 ng
RT: 13.68 min Scan# 1058
Delta R.T. -0.06 min
Lab File: BF088402.D
Acq: 26 Jun 2016 5:33

Tgt Ion:228 Resp: 173415

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 29.4 | 22.3 | 33.5 |
| 229 | 21.5 | 16.0 | 24.0 |



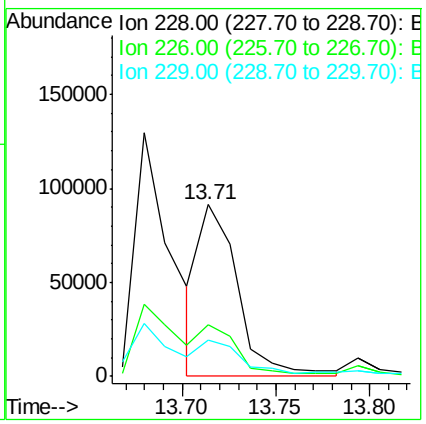


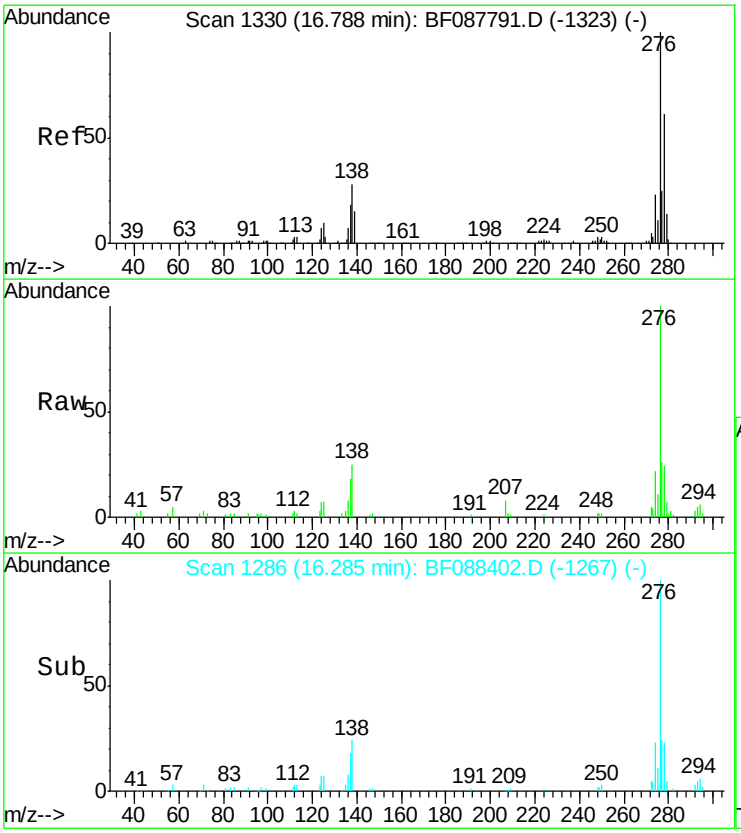

#82
Chrysene
Concen: 12.63 ng m
RT: 13.71 min Scan# 1061
Delta R.T. -0.06 min
Lab File: BF088402.D
Acq: 26 Jun 2016 5:33

**Instrument :**
BNA_F
**ClientSampleId :**
PM-STA-1436(0-4)DL

Tgt Ion:228 Resp: 132512

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 29.8 | 25.4 | 38.2 |
| 229 | 21.4 | 16.3 | 24.5 |

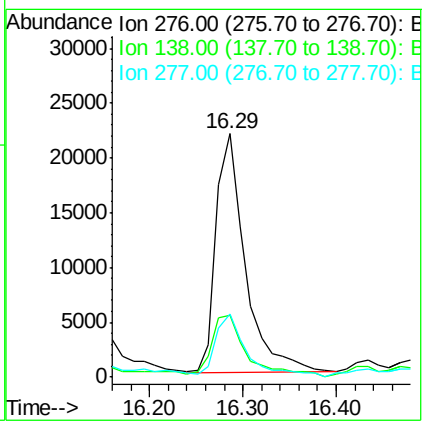


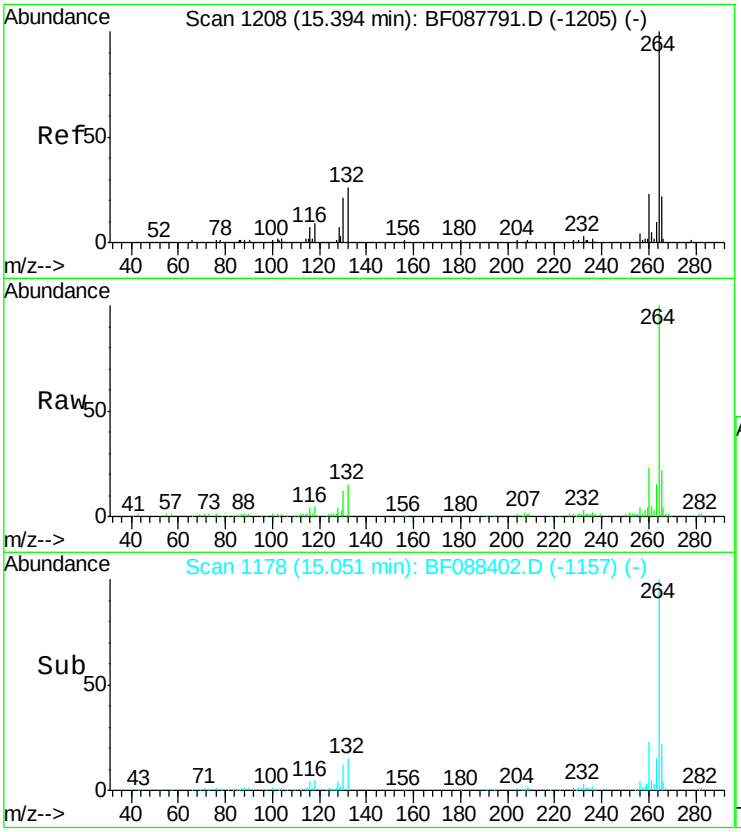




#85
Indeno(1,2,3-cd)pyrene
Concen: 4.89 ng
RT: 16.29 min Scan# 1286
Delta R.T. -0.08 min
Lab File: BF088402.D
Acq: 26 Jun 2016 5:33

Tgt Ion:276 Resp: 47691

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 31.7 | 0.0 | 0.0# |
| 277 | 28.7 | 0.0 | 0.0# |



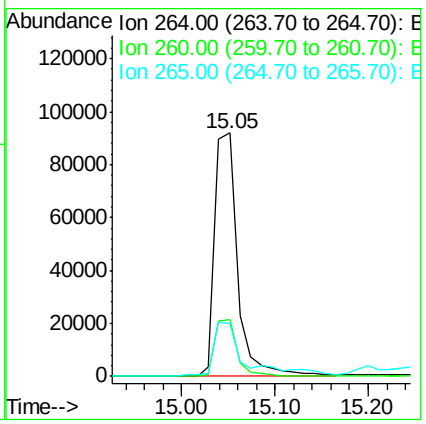


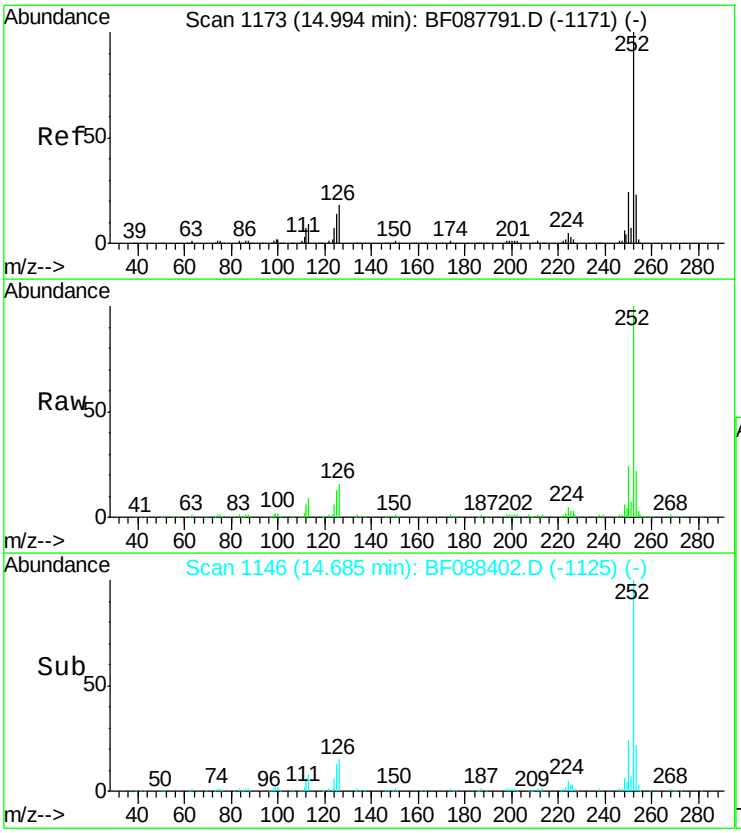

#86
Perylene-d12
Concen: 20.00 ng
RT: 15.05 min Scan# 1178
Delta R.T. -0.06 min
Lab File: BF088402.D
Acq: 26 Jun 2016 5:33

**Instrument :**
BNA_F
**ClientSampleId :**
PM-STA-1436(0-4)DL

Tgt Ion:264 Resp: 157207

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 23.4 | 19.2 | 28.8 |
| 265 | 21.8 | 16.9 | 25.3 |

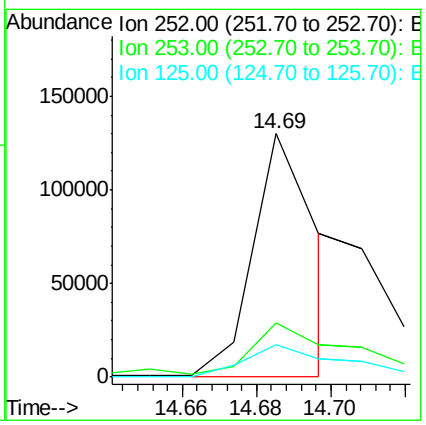


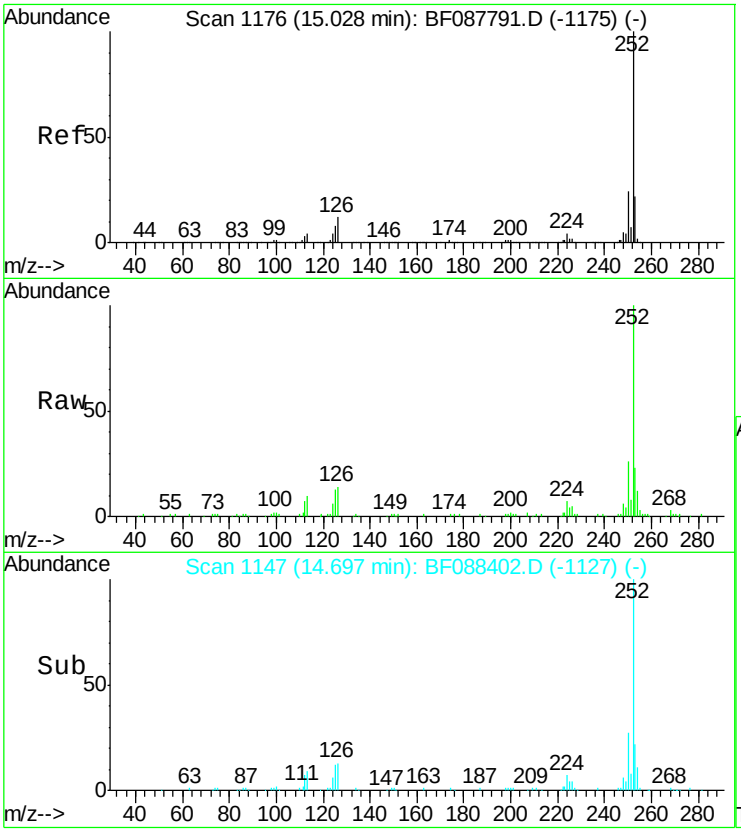




#87
Benzo(b)fluoranthene
Concen: 14.10 ng m
RT: 14.69 min Scan# 1146
Delta R.T. -0.06 min
Lab File: BF088402.D
Acq: 26 Jun 2016 5:33

Tgt Ion:252 Resp: 154544

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.4 | 17.4 | 26.2 |
| 125 | 13.1 | 7.1 | 10.7# |



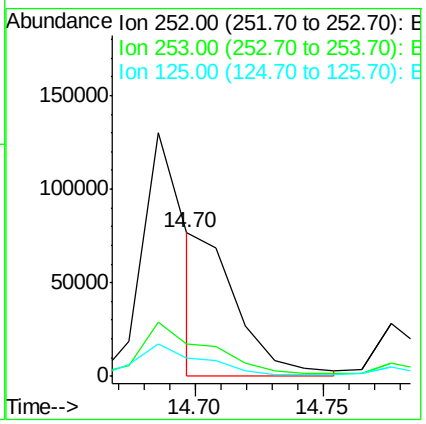


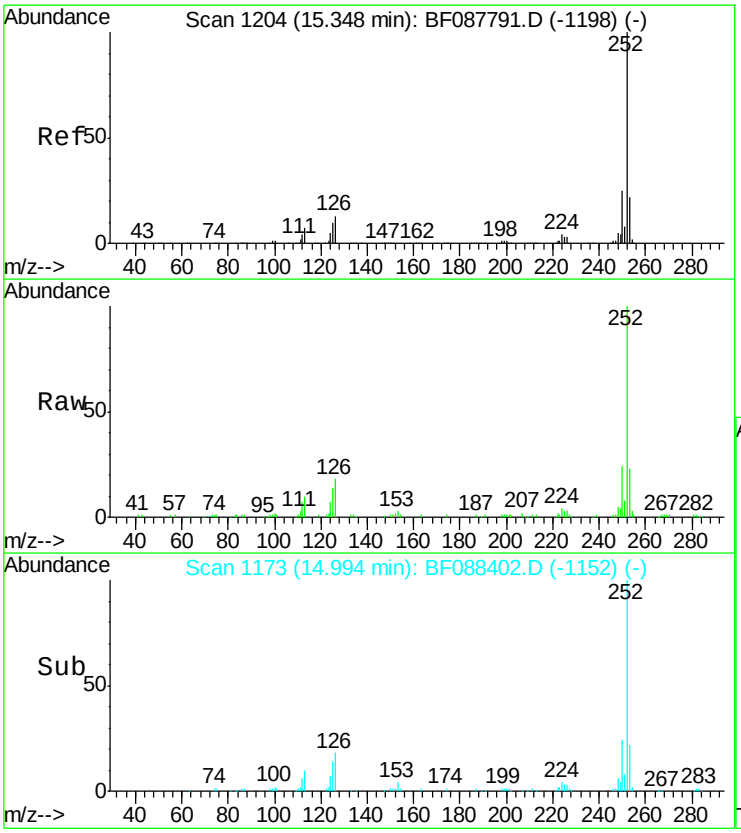

#88
Benzo(k)fluoranthene
Concen: 9.24 ng m
RT: 14.70 min Scan# 1147
Delta R.T. -0.07 min
Lab File: BF088402.D
Acq: 26 Jun 2016 5:33

**Instrument :**
BNA_F
**ClientSampleId :**
PM-STA-1436(0-4)DL

Tgt Ion:252 Resp: 76349

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.7 | 18.0 | 27.0 |
| 125 | 12.7 | 11.2 | 16.8 |

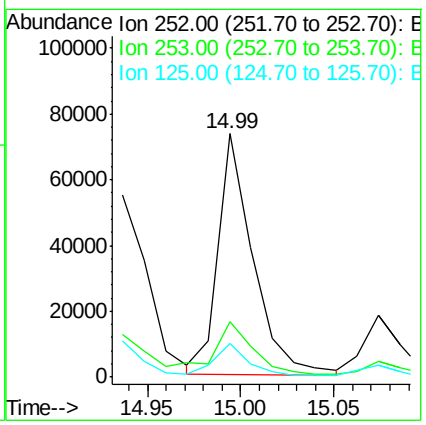


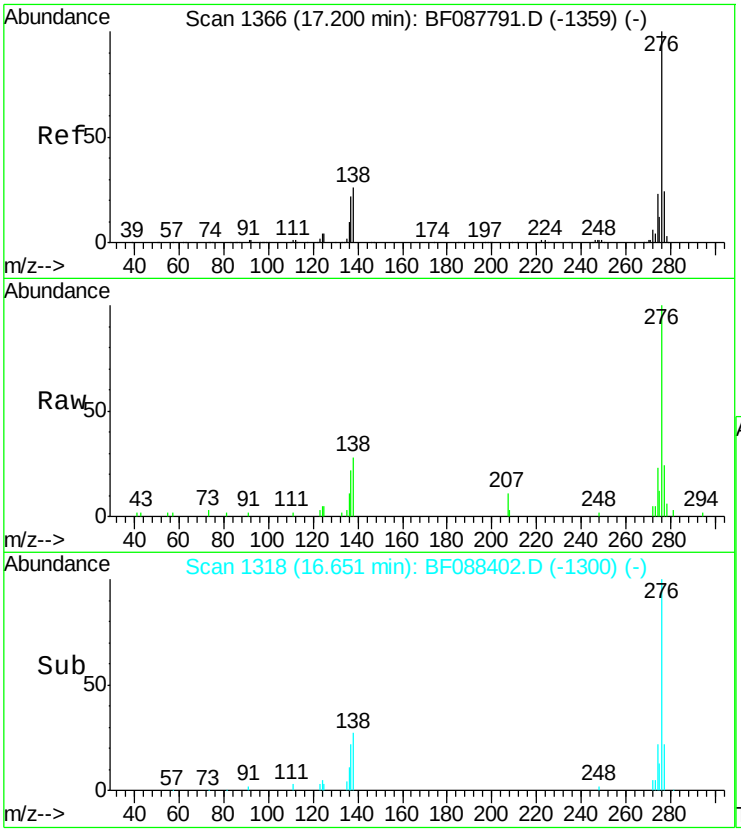




#89
Benzo(a)pyrene
Concen: 10.87 ng
RT: 14.99 min Scan# 1173
Delta R.T. -0.06 min
Lab File: BF088402.D
Acq: 26 Jun 2016 5:33

Tgt Ion:252 Resp: 96323

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.7 | 17.9 | 26.9 |
| 125 | 13.9 | 12.5 | 18.7 |






#91
Benzo(g,h,i)perylene
Concen: 4.52 ng
RT: 16.65 min Scan# 1318
Delta R.T. -0.09 min
Lab File: BF088402.D
Acq: 26 Jun 2016 5:33

**Instrument :**
BNA_F
**ClientSampleId :**
PM-STA-1436(0-4)DL

Tgt Ion:276 Resp: 38285

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 24.0 | 18.9 | 28.3 |
| 138 | 28.1 | 21.4 | 32.2 |