Quantitation Report (Not Reviewed)

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF041415\
Data File : BF078508.D
Acq On : 14 Apr 2015 19:30
Operator : TP/IZ
Sample : G1828-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** HS-SB06B

Quant Time: Apr 15 01:23:55 2015
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040115.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 15 01:10:59 2015
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 6.80 | 152 | 16940 | 20.00 | ng | | 0.00 |
| 21) Naphthalene-d8 | 8.38 | 136 | 74010 | 20.00 | ng | | -0.01 |
| 38) Acenaphthene-d10 | 10.54 | 164 | 40518 | 20.00 | ng | | 0.00 |
| 63) Phenanthrene-d10 | 12.37 | 188 | 82779 | 20.00 | ng | | 0.00 |
| 75) Chrysene-d12 | 15.62 | 240 | 98981 | 20.00 | ng | | -0.03 |
| 86) Perylene-d12 | 17.33 | 264 | 109184 | 20.00 | ng | | -0.16 |
| **System Monitoring Compounds** | | | | | | | |
| 5) 2-Fluorophenol | 5.06 | 112 | 125837 | 122.48 | ng | | 0.01 |
| 7) Phenol-d6 | 6.41 | 99 | 174606 | 135.61 | ng | | 0.00 |
| 23) Nitrobenzene-d5 | 7.51 | 82 | 105396 | 86.32 | ng | | 0.00 |
| 41) 2,4,6-Tribromophenol | 11.52 | 330 | 47880 | 142.48 | ng | | 0.00 |
| 44) 2-Fluorobiphenyl | 9.74 | 172 | 210208 | 74.16 | ng | | 0.00 |
| 78) Terphenyl-d14 | 14.35 | 244 | 270359 | 61.72 | ng | | 0.00 |
| **Target Compounds** | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 1.60 | 88 | 37148 | 79.96 | ng | # | 23 |
| 10) Phenol | 6.43 | 94 | 4471 | 2.90 | ng | # | 63 |
| 31) Naphthalene | 8.41 | 128 | 21036 | 5.46 | ng | | 99 |
| 37) 2-Methylnaphthalene | 9.27 | 142 | 9210 | 3.52 | ng | | 95 |
| 48) Acenaphthylene | 10.36 | 152 | 17900 | 4.25 | ng | | 97 |
| 49) Dimethylphthalate | 10.24 | 163 | 9253 | 3.04 | ng | # | 95 |
| 51) Acenaphthene | 10.58 | 154 | 31683 | 13.36 | ng | | 99 |
| 54) Dibenzofuran | 10.80 | 168 | 22694 | 6.27 | ng | | 95 |
| 55) 4-Nitrophenol | 10.80 | 139 | 8730 | 18.84 | ng | # | 18 |
| 57) Fluorene | 11.21 | 166 | 38083 | 12.97 | ng | | 99 |
| 70) Phenanthrene | 12.40 | 178 | 493295 | 103.02 | ng | | 99 |
| 71) Anthracene | 12.46 | 178 | 99181 | 21.02 | ng | | 99 |
| 72) Carbazole | 12.67 | 167 | 33057 | 7.48 | ng | | 99 |
| 74) Fluoranthene | 13.86 | 202 | 819733 | 162.33 | ng | | 95 |
| 77) Pyrene | 14.14 | 202 | 682461 | 109.83 | ng | | 98 |
| 80) Benzo(a)anthracene | 15.61 | 228 | 333286 | 56.59 | ng | | 97 |
| 82) Chrysene | 15.66 | 228 | 301404 | 54.47 | ng | | 98 |
| 87) Benzo(b)fluoranthene | 16.89 | 252 | 474141 | 70.26 | ng | # | 95 |
| 88) Benzo(k)fluoranthene | 16.89 | 252 | 573226 | 95.59 | ng | | 98 |
| 89) Benzo(a)pyrene | 17.26 | 252 | 274018 | 46.53 | ng | # | 92 |
| 90) Dibenzo(a,h)anthracene | 18.70 | 278 | 32447 | 5.50 | ng | # | 91 |

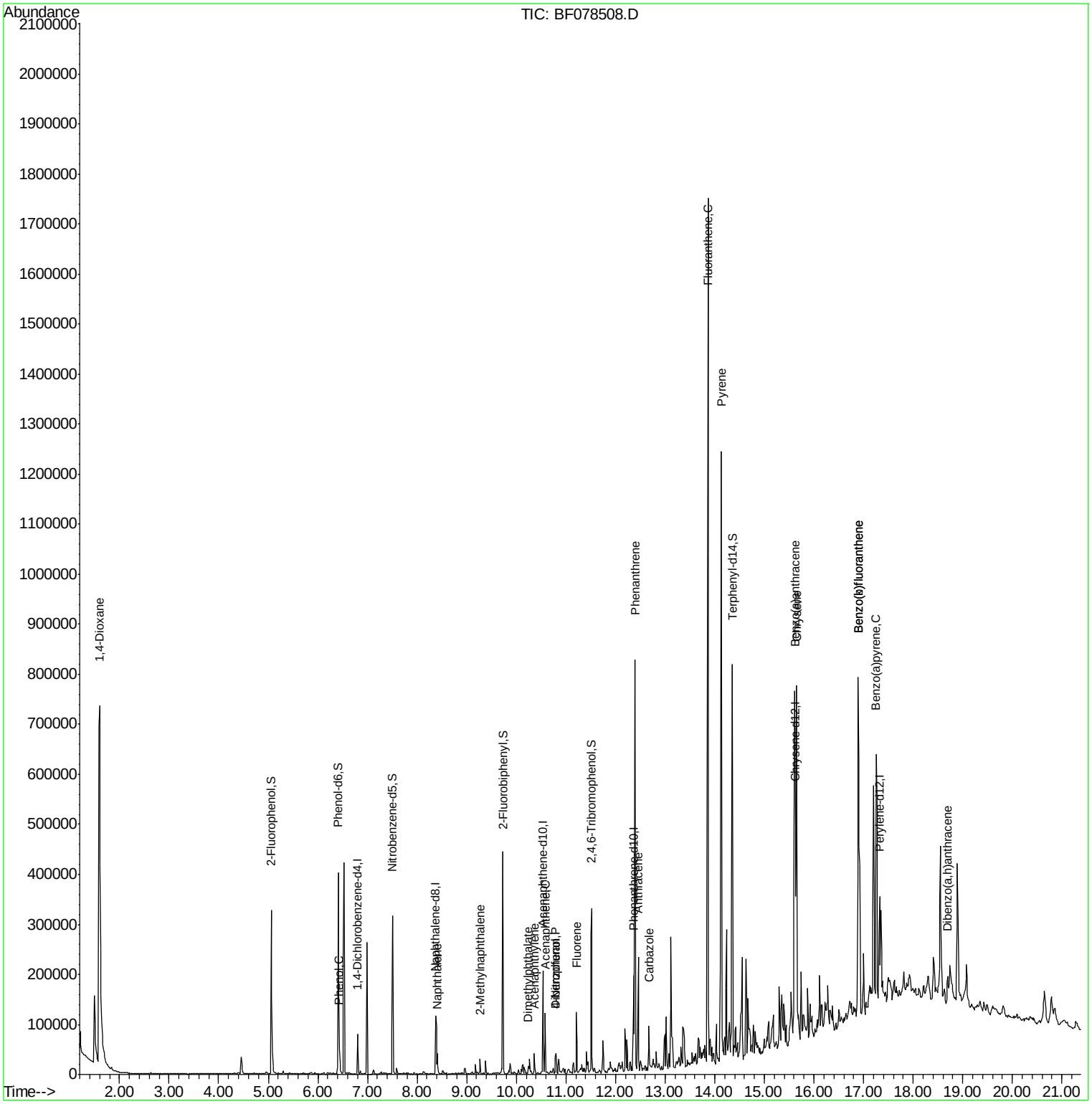
(#) = qualifier out of range (m) = manual integration (+) = signals summed

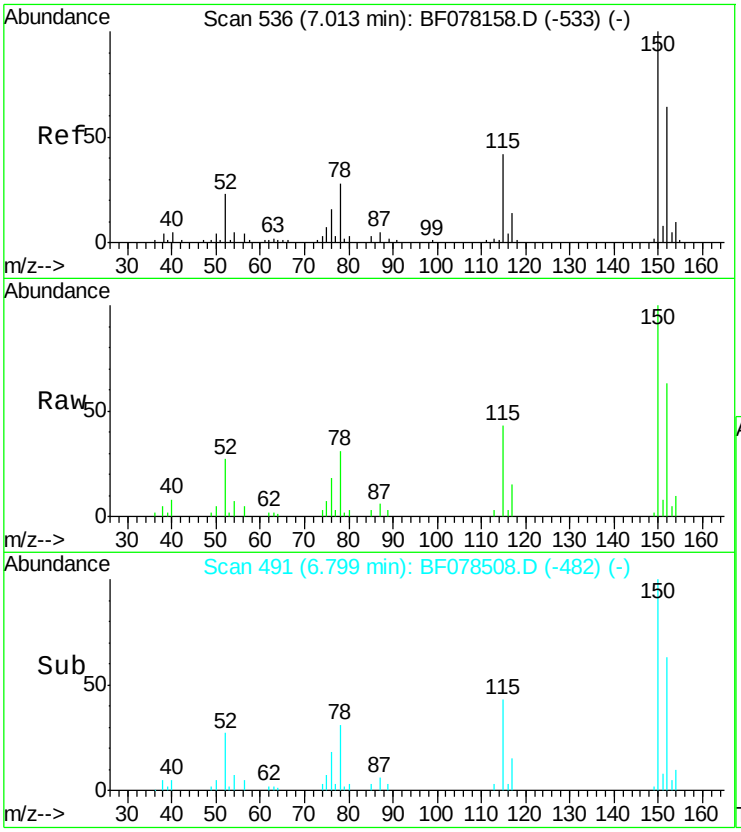
Quantitation Report (Not Reviewed)

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF041415\
Data File : BF078508.D
Acq On : 14 Apr 2015 19:30
Operator : TP/IZ
Sample : G1828-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
HS-SB06B

Quant Time: Apr 15 01:23:55 2015
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040115.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 15 01:10:59 2015
Response via : Initial Calibration



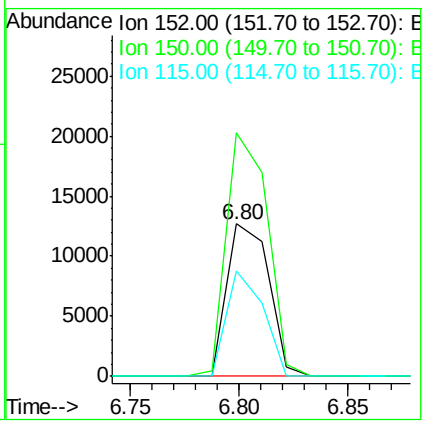


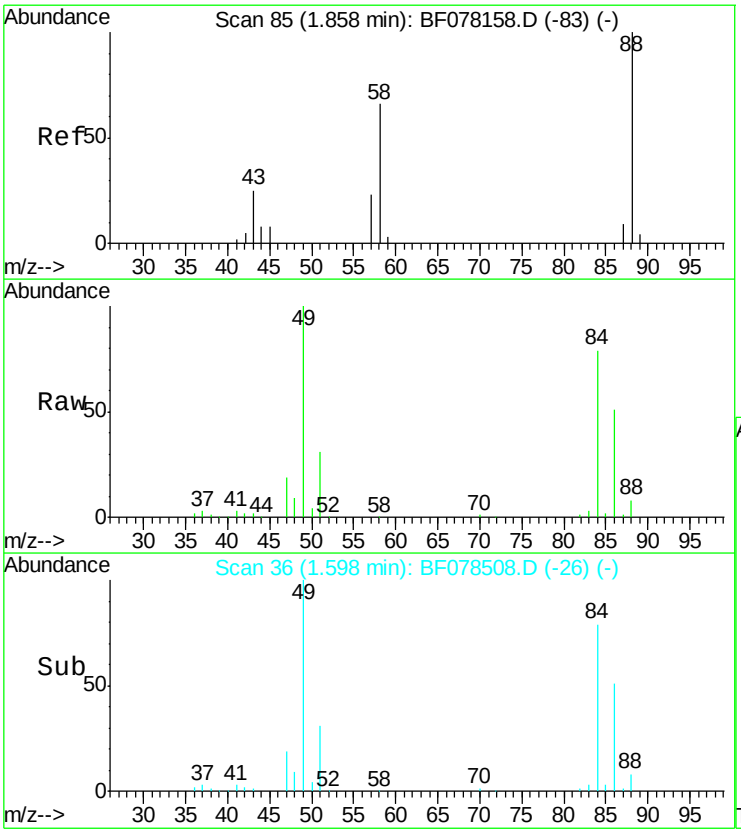

#1
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.80 min Scan# 491
Delta R.T. -0.00 min
Lab File: BF078508.D
Acq: 14 Apr 2015 19:30

**Instrument :**
BNA_F
**ClientSampleId :**
HS-SB06B

Tgt Ion:152 Resp: 16940

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 159.8 | 125.9 | 188.9 |
| 115 | 68.8 | 52.7 | 79.1 |

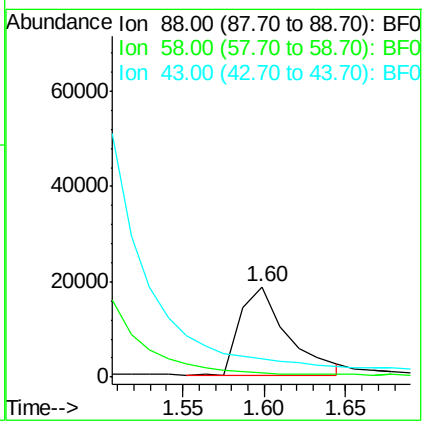


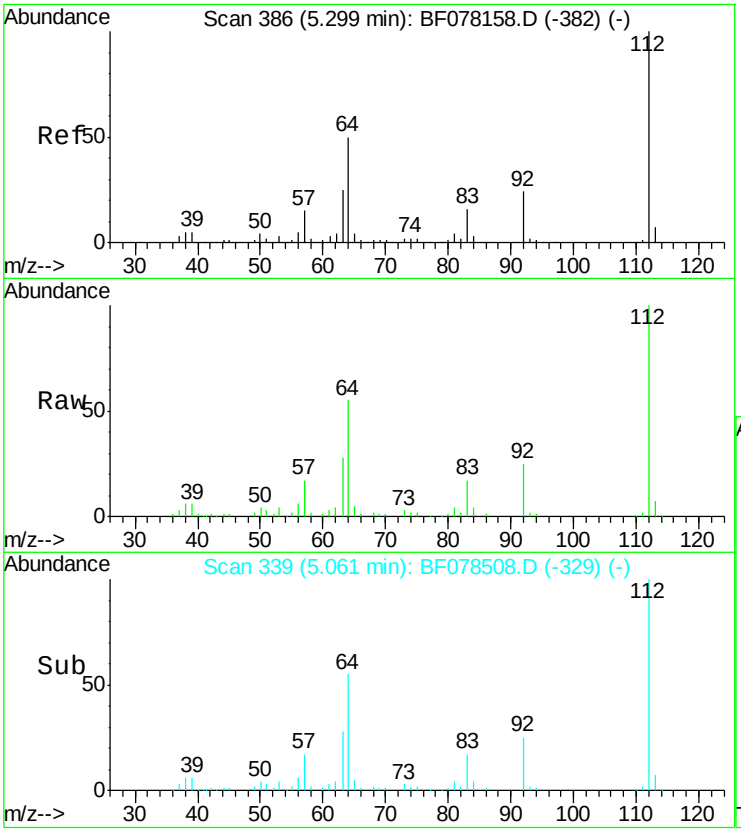




#2
1,4-Dioxane
Concen: 79.96 ng
RT: 1.60 min Scan# 36
Delta R.T. 0.01 min
Lab File: BF078508.D
Acq: 14 Apr 2015 19:30

Tgt Ion: 88 Resp: 37148

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 0.0 | 56.9 | 85.3# |
| 43 | 0.0 | 21.4 | 32.2# |



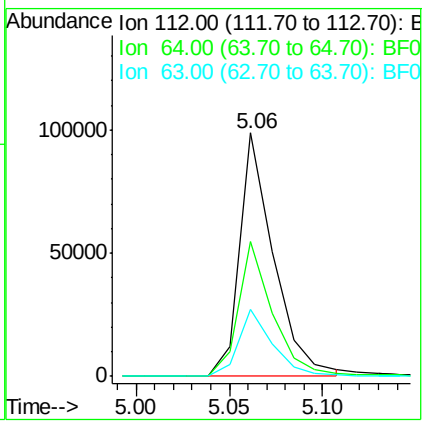


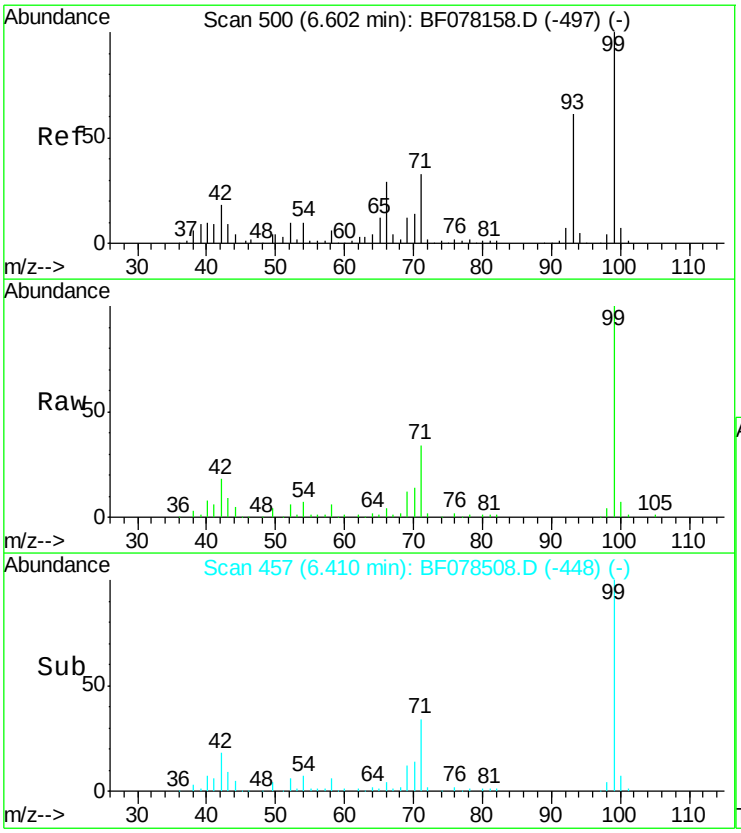

#5
2-Fluorophenol
Concen: 122.48 ng
RT: 5.06 min Scan# 339
Delta R.T. 0.01 min
Lab File: BF078508.D
Acq: 14 Apr 2015 19:30

**Instrument :**
BNA_F
**ClientSampleId :**
HS-SB06B

Tgt Ion:112 Resp: 125837

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 55.2 | 39.9 | 59.9 |
| 63 | 27.7 | 20.2 | 30.4 |

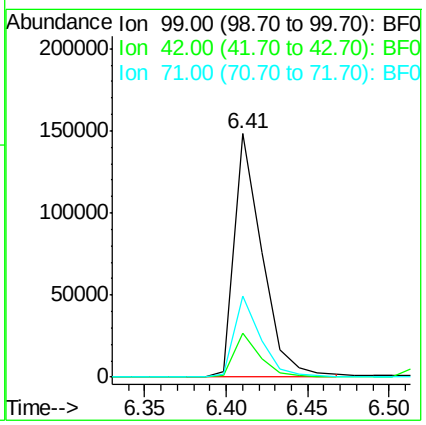


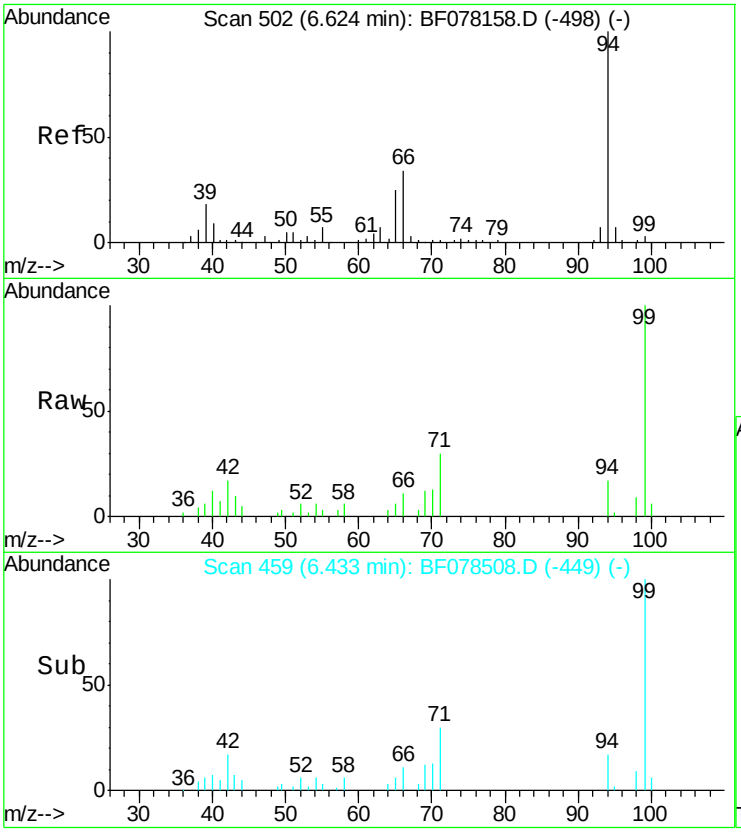




#7
Phenol-d6
Concen: 135.61 ng
RT: 6.41 min Scan# 457
Delta R.T. -0.00 min
Lab File: BF078508.D
Acq: 14 Apr 2015 19:30

Tgt Ion: 99 Resp: 174606

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 17.8 | 14.8 | 22.2 |
| 71 | 33.5 | 26.6 | 39.8 |



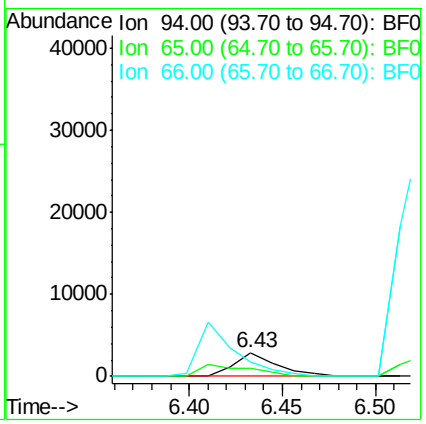


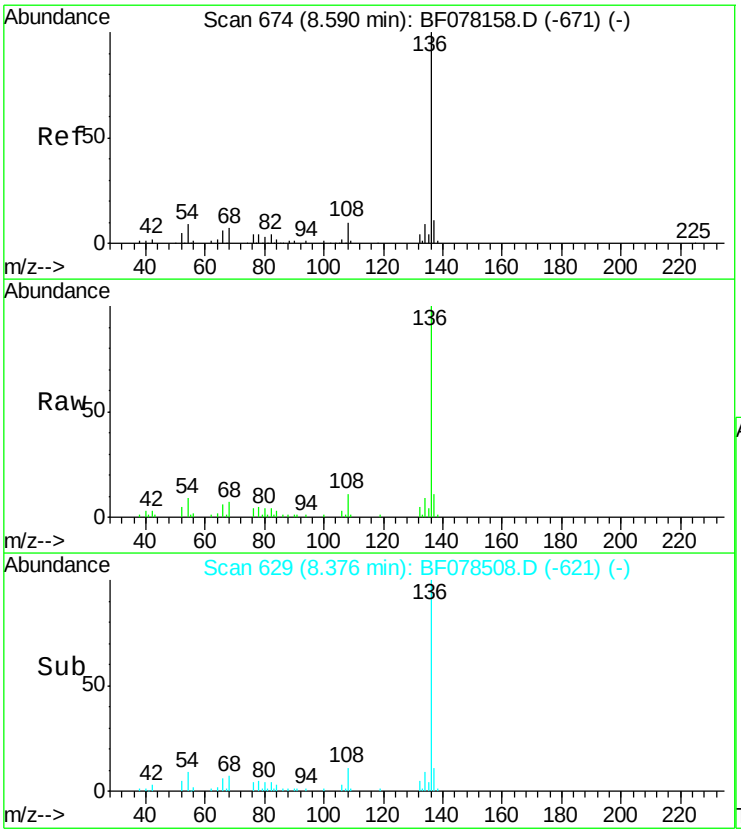

#10
Phenol
Concen: 2.90 ng
RT: 6.43 min Scan# 459
Delta R.T. 0.01 min
Lab File: BF078508.D
Acq: 14 Apr 2015 19:30

**Instrument :**
BNA_F
**ClientSampleId :**
HS-SB06B

Tgt Ion: 94 Resp: 4471

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 65 | 34.4 | 4.9 | 44.9 |
| 66 | 62.2 | 13.8 | 53.8# |

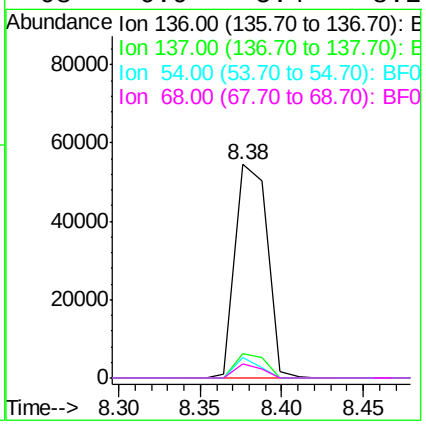


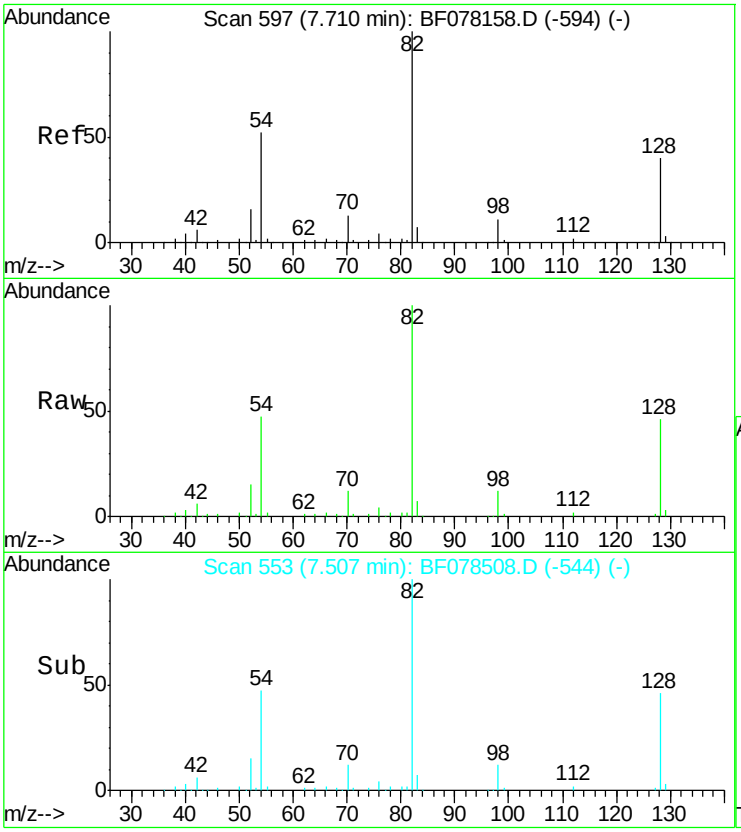




#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.38 min Scan# 629
Delta R.T. -0.01 min
Lab File: BF078508.D
Acq: 14 Apr 2015 19:30

Tgt Ion:136 Resp: 74010

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.1 | 9.0 | 13.4 |
| 54 | 9.3 | 7.0 | 10.6 |
| 68 | 6.9 | 5.4 | 8.2 |



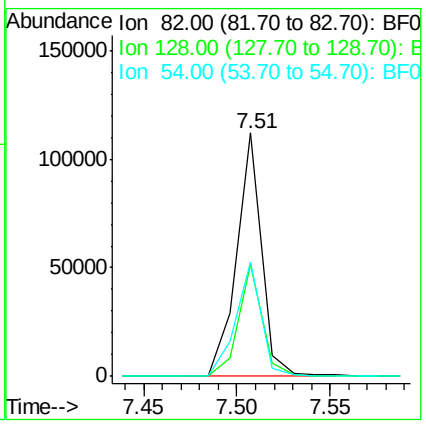


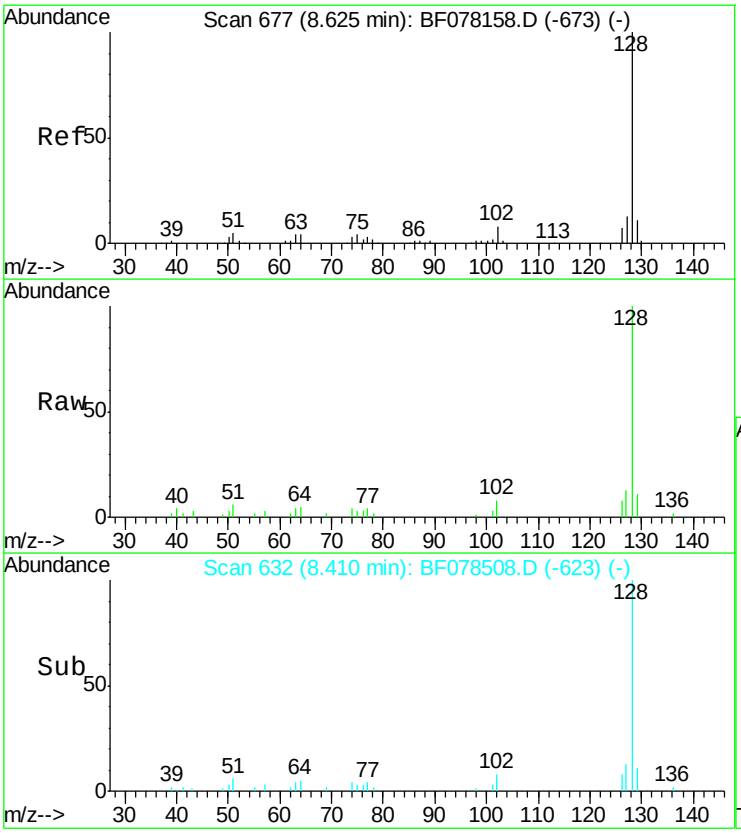

#23
Nitrobenzene-d5
Concen: 86.32 ng
RT: 7.51 min Scan# 553
Delta R.T. -0.00 min
Lab File: BF078508.D
Acq: 14 Apr 2015 19:30

**Instrument :**
BNA_F
**ClientSampleId :**
HS-SB06B

Tgt Ion: 82 Resp: 105396

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 45.9 | 31.8 | 47.8 |
| 54 | 46.8 | 41.5 | 62.3 |

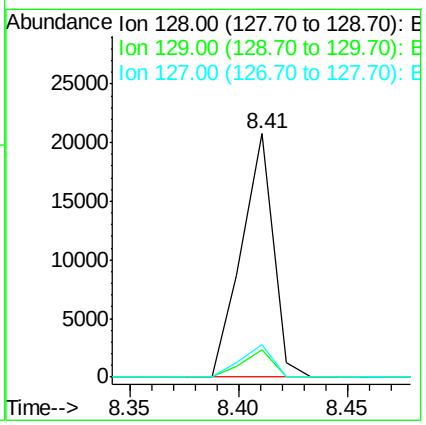


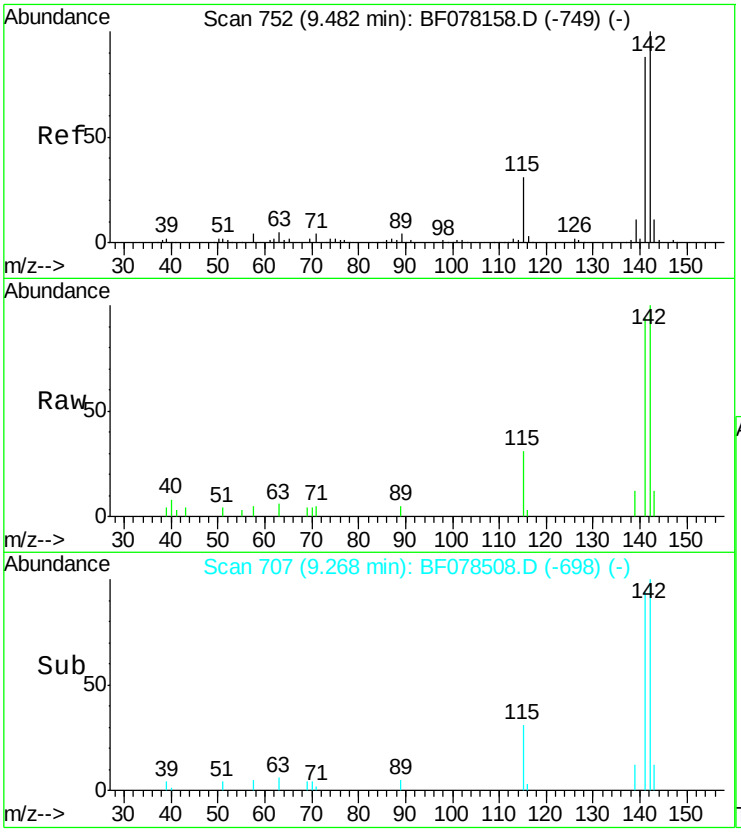




#31
Naphthalene
Concen: 5.46 ng
RT: 8.41 min Scan# 632
Delta R.T. -0.00 min
Lab File: BF078508.D
Acq: 14 Apr 2015 19:30

Tgt Ion:128 Resp: 21036

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.4 | 8.6 | 12.8 |
| 127 | 13.1 | 10.7 | 16.1 |



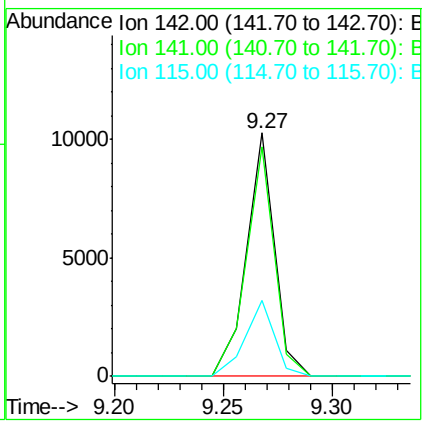


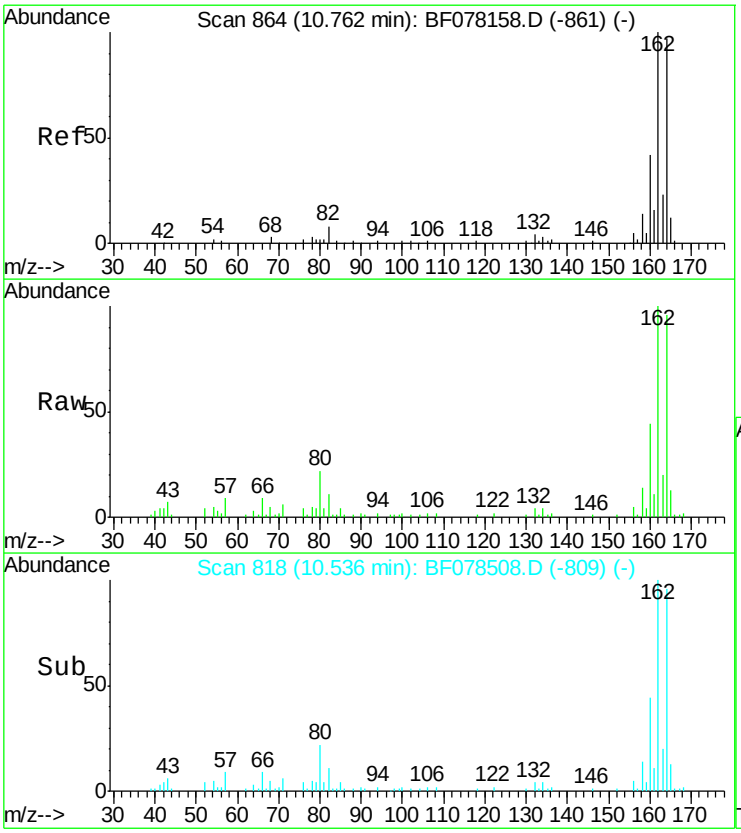

#37
2-Methylnaphthalene
Concen: 3.52 ng
RT: 9.27 min Scan# 707
Delta R.T. -0.00 min
Lab File: BF078508.D
Acq: 14 Apr 2015 19:30

**Instrument :**
BNA_F
**ClientSampleId :**
HS-SB06B

Tgt Ion:142 Resp: 9210

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 94.1 | 70.3 | 105.5 |
| 115 | 31.3 | 24.6 | 37.0 |

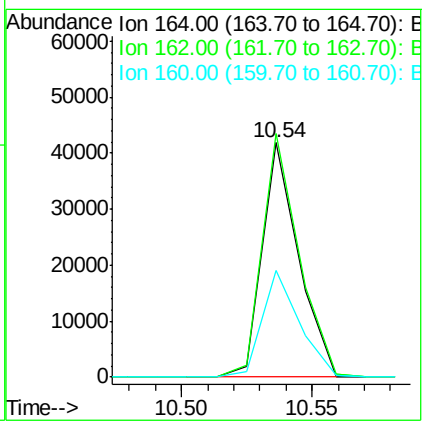


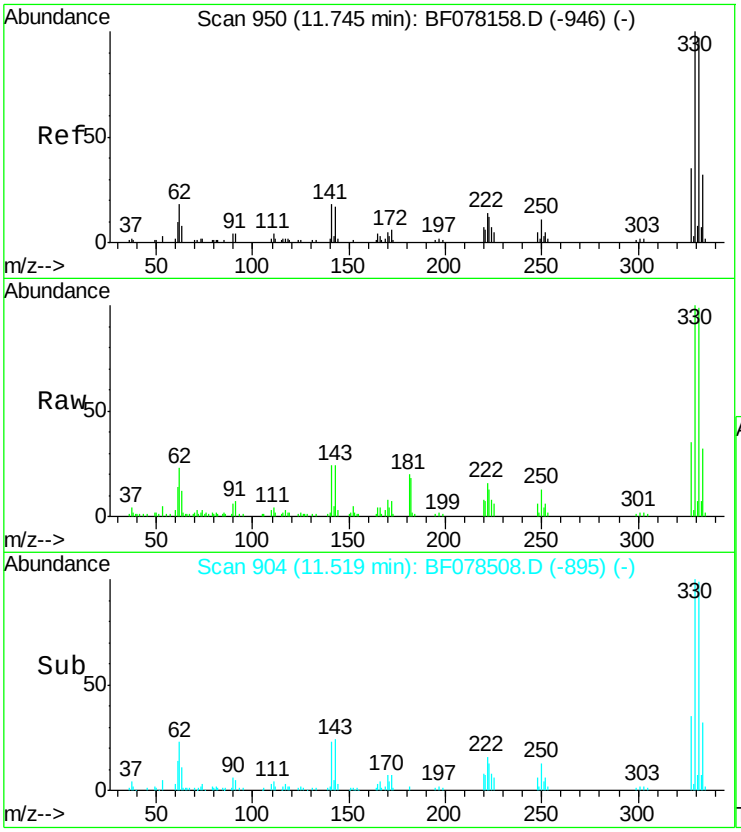




#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 10.54 min Scan# 818
Delta R.T. -0.00 min
Lab File: BF078508.D
Acq: 14 Apr 2015 19:30

Tgt Ion:164 Resp: 40518

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 103.8 | 82.2 | 123.2 |
| 160 | 45.5 | 34.7 | 52.1 |



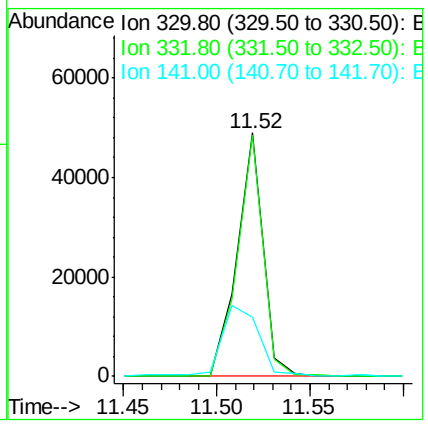


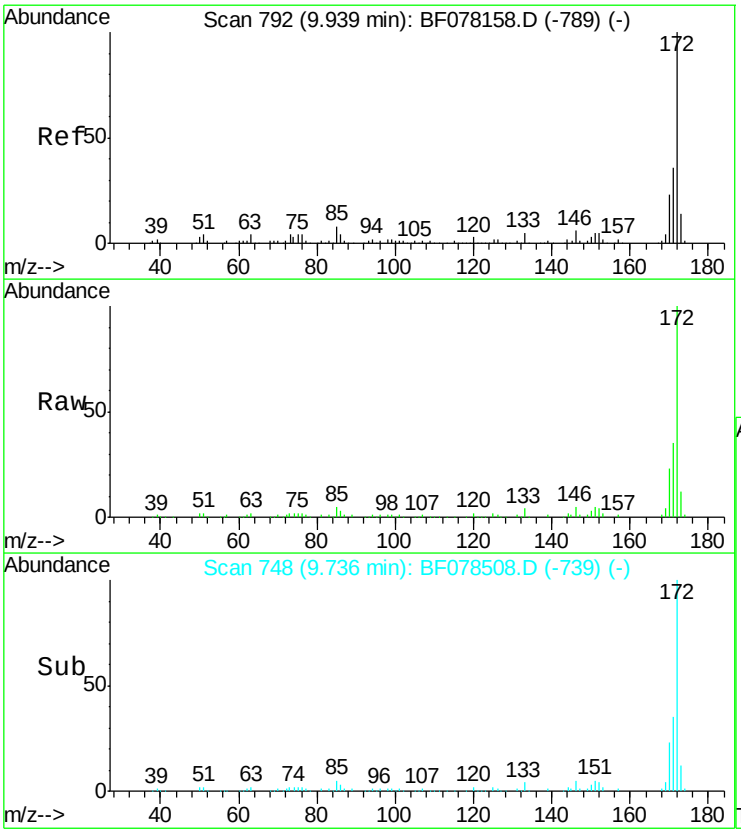

#41
2,4,6-Tribromophenol
Concen: 142.48 ng
RT: 11.52 min Scan# 904
Delta R.T. -0.00 min
Lab File: BF078508.D
Acq: 14 Apr 2015 19:30

**Instrument :**
BNA_F
**ClientSampleId :**
HS-SB06B

Tgt Ion:330 Resp: 47880

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 98.0 | 78.6 | 117.8 |
| 141 | 41.9 | 31.2 | 46.8 |

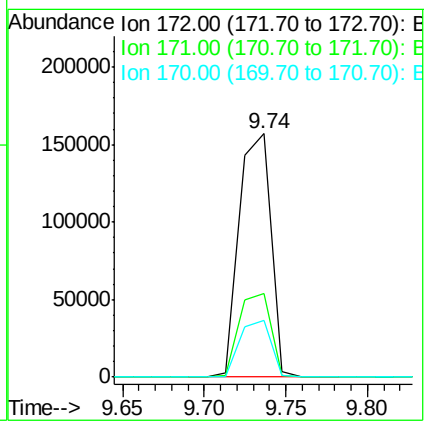


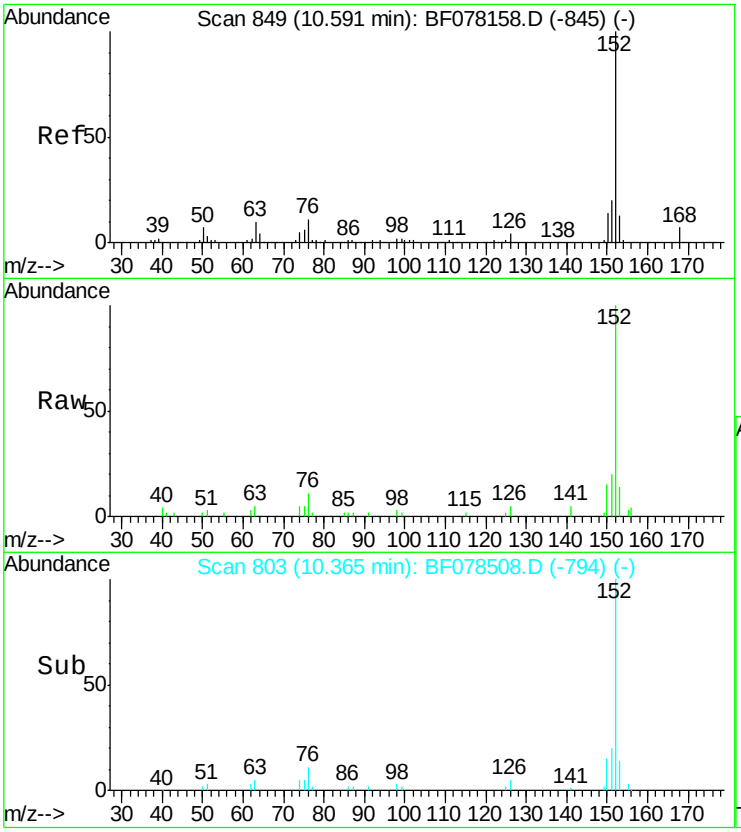




#44
2-Fluorobiphenyl
Concen: 74.16 ng
RT: 9.74 min Scan# 748
Delta R.T. -0.00 min
Lab File: BF078508.D
Acq: 14 Apr 2015 19:30

Tgt Ion:172 Resp: 210208

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 34.5 | 28.6 | 42.8 |
| 170 | 23.1 | 18.5 | 27.7 |



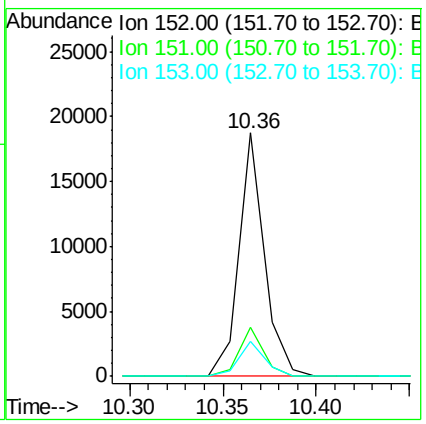


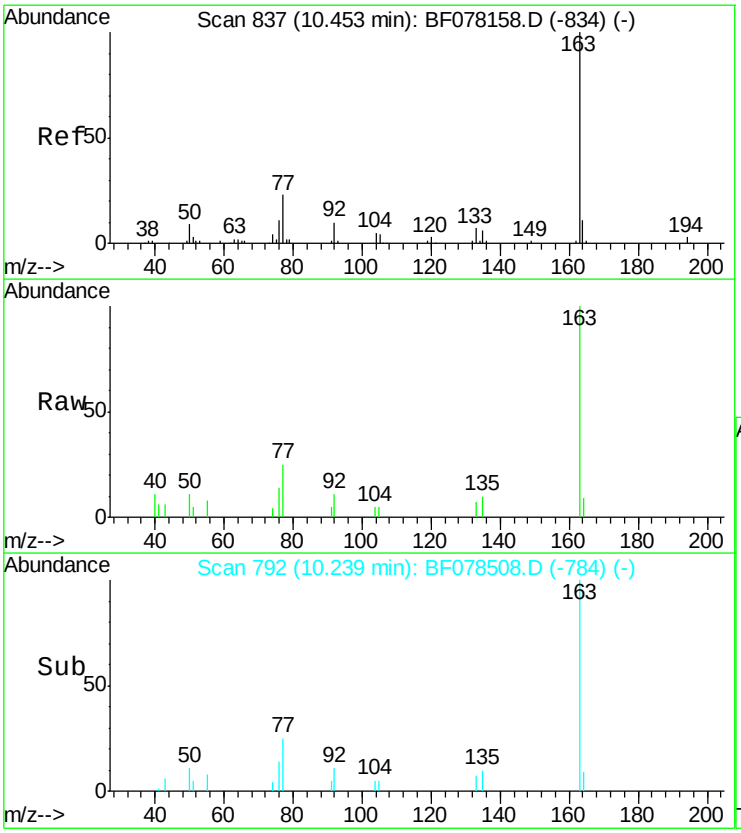

#48
Acenaphthylene
Concen: 4.25 ng
RT: 10.36 min Scan# 803
Delta R.T. -0.00 min
Lab File: BF078508.D
Acq: 14 Apr 2015 19:30

**Instrument :**
BNA_F
**ClientSampleId :**
HS-SB06B

Tgt Ion:152 Resp: 17900

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.2 | 15.7 | 23.5 |
| 153 | 14.4 | 10.2 | 15.2 |

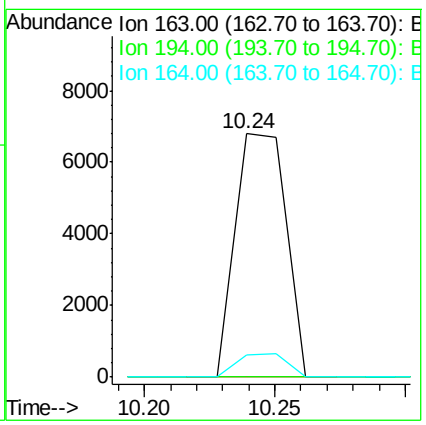


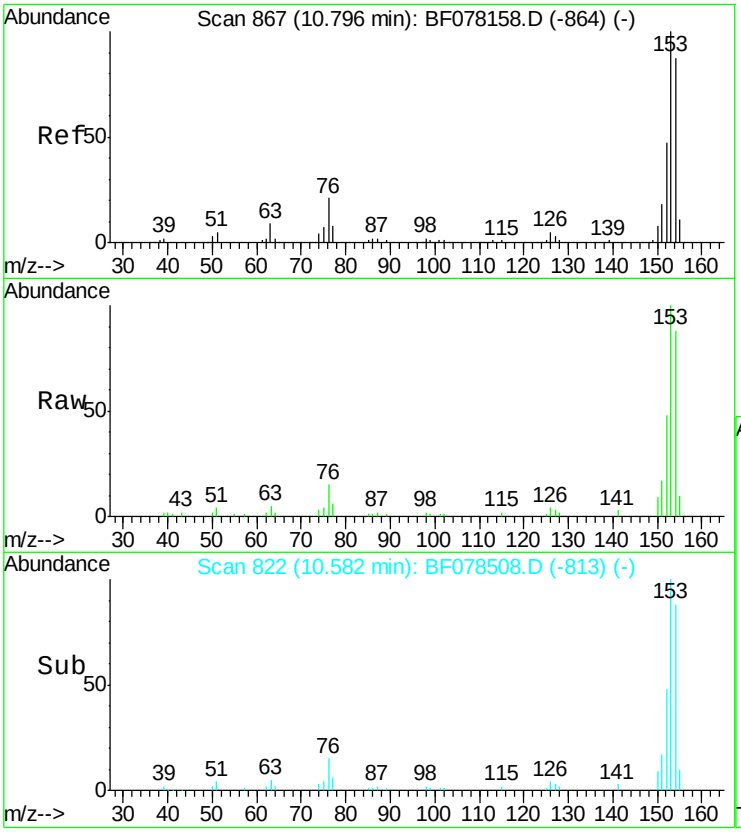




#49
Dimethylphthalate
Concen: 3.04 ng
RT: 10.24 min Scan# 792
Delta R.T. -0.01 min
Lab File: BF078508.D
Acq: 14 Apr 2015 19:30

Tgt Ion:163 Resp: 9253

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 163 | 100 | | |
| 194 | 0.0 | 2.3 | 3.5# |
| 164 | 9.3 | 8.6 | 13.0 |



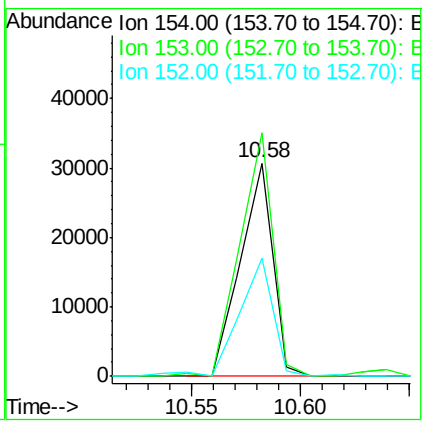


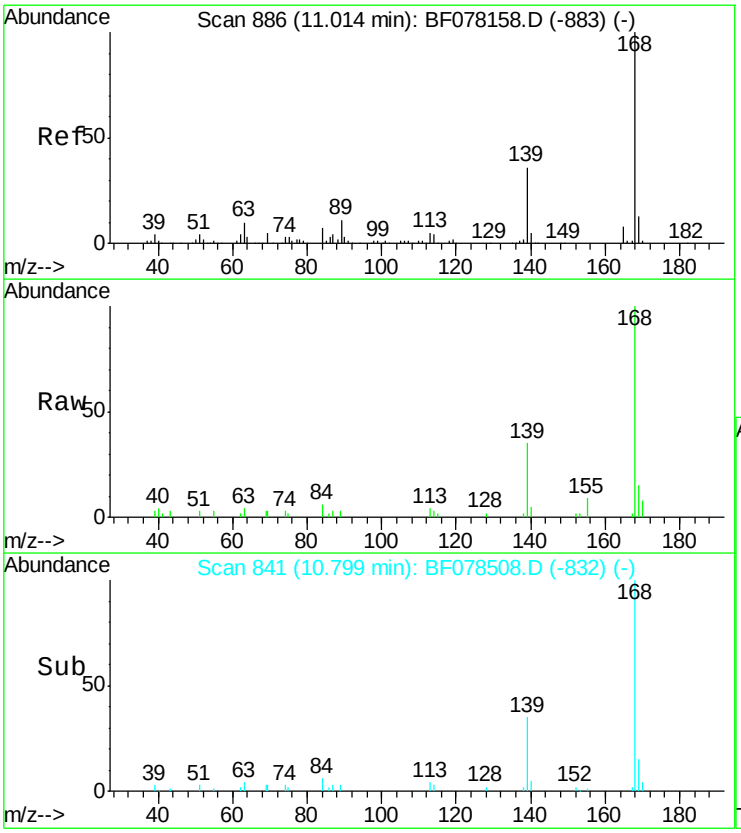

#51
Acenaphthene
Concen: 13.36 ng
RT: 10.58 min Scan# 822
Delta R.T. -0.00 min
Lab File: BF078508.D
Acq: 14 Apr 2015 19:30

**Instrument :**
BNA_F
**ClientSampleId :**
HS-SB06B

Tgt Ion:154 Resp: 31683

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 114.1 | 91.4 | 137.2 |
| 152 | 55.1 | 43.0 | 64.6 |

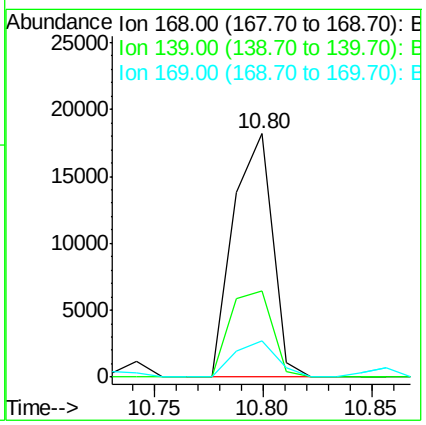


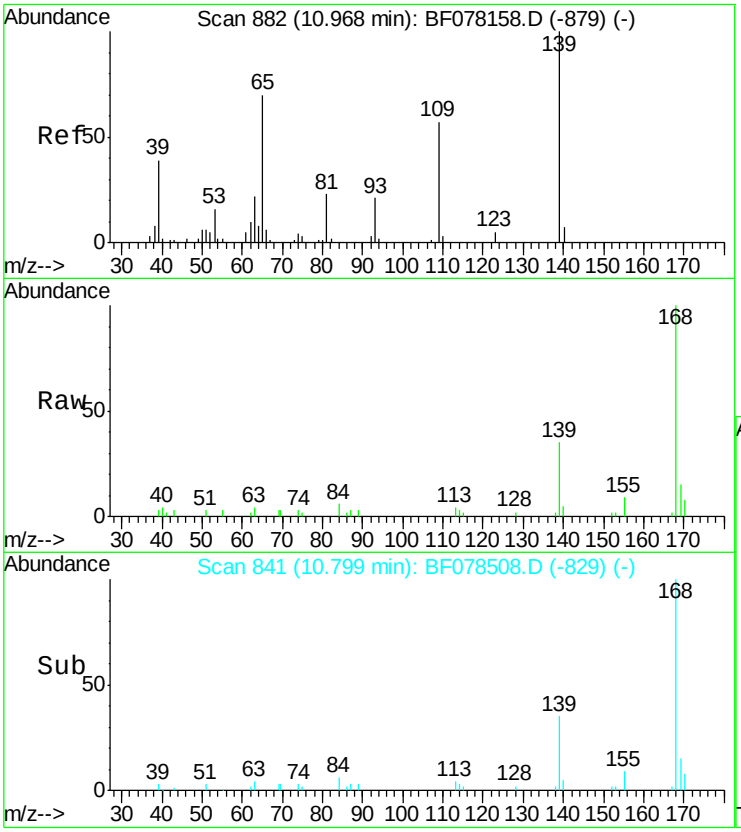




#54
Dibenzofuran
Concen: 6.27 ng
RT: 10.80 min Scan# 841
Delta R.T. -0.00 min
Lab File: BF078508.D
Acq: 14 Apr 2015 19:30

Tgt Ion:168 Resp: 22694

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 35.5 | 31.0 | 46.4 |
| 169 | 15.0 | 10.7 | 16.1 |



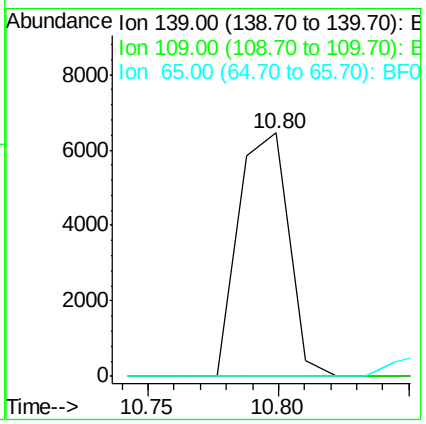


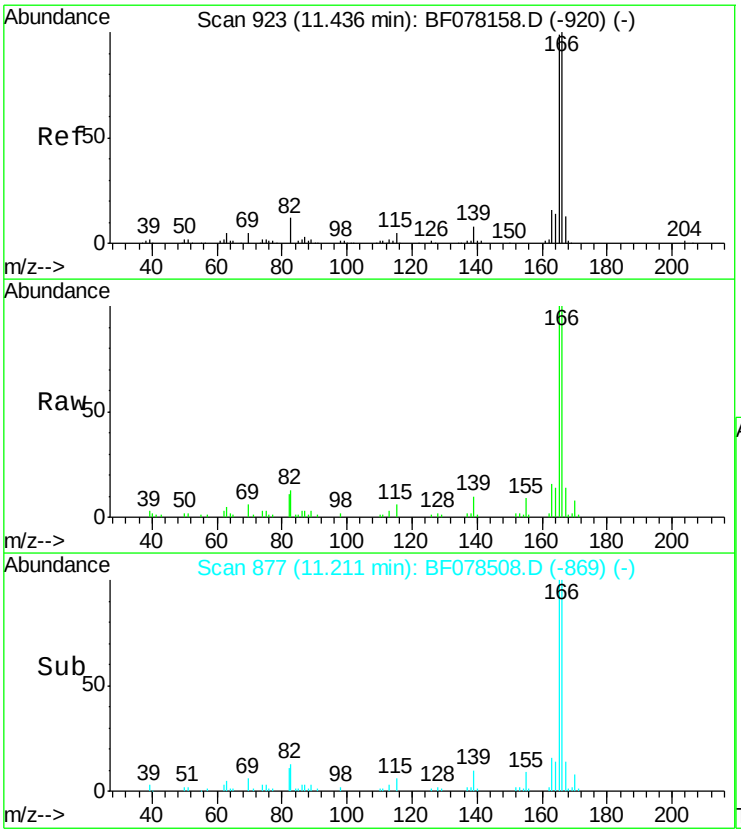

#55
4-Nitrophenol
Concen: 18.84 ng
RT: 10.80 min Scan# 841
Delta R.T. 0.03 min
Lab File: BF078508.D
Acq: 14 Apr 2015 19:30

**Instrument :**
BNA_F
**ClientSampleId :**
HS-SB06B

Tgt Ion:139 Resp: 8730

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 139 | 100 | | |
| 109 | 0.0 | 36.7 | 76.7# |
| 65 | 0.0 | 49.9 | 89.9# |

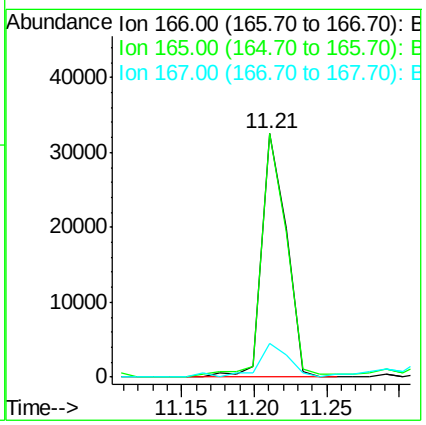


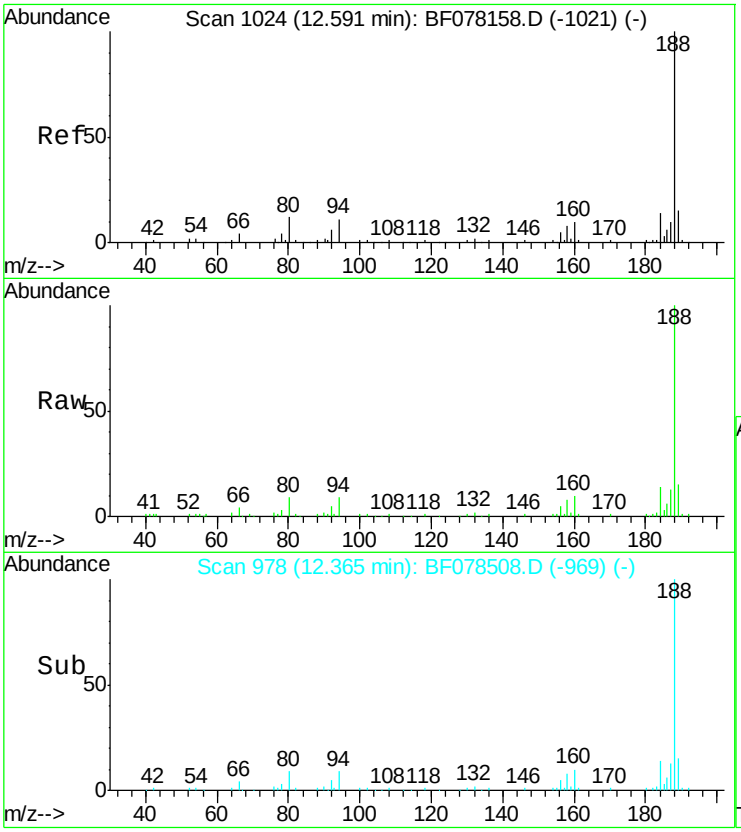




#57
Fluorene
Concen: 12.97 ng
RT: 11.21 min Scan# 877
Delta R.T. -0.01 min
Lab File: BF078508.D
Acq: 14 Apr 2015 19:30

Tgt Ion:166 Resp: 38083

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 100.0 | 78.9 | 118.3 |
| 167 | 14.0 | 10.7 | 16.1 |



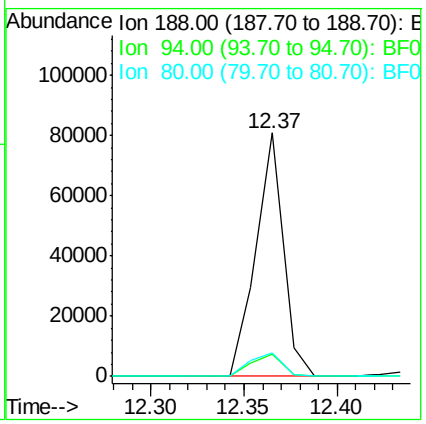


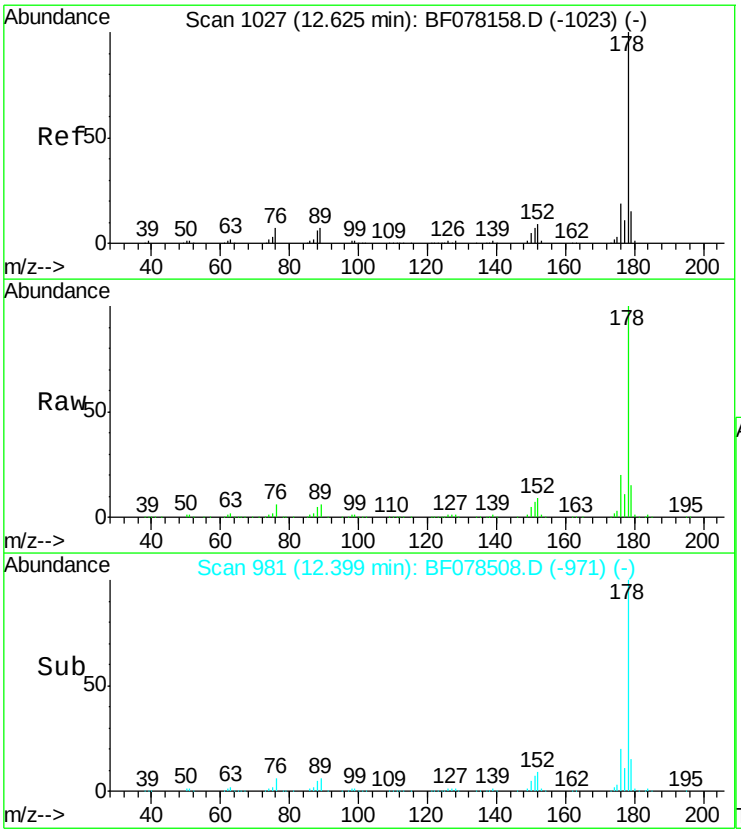

#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 12.37 min Scan# 978
Delta R.T. -0.00 min
Lab File: BF078508.D
Acq: 14 Apr 2015 19:30

**Instrument :**
BNA_F
**ClientSampleId :**
HS-SB06B

Tgt Ion:188 Resp: 82779

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 9.0 | 9.0 | 13.4 |
| 80 | 9.4 | 9.5 | 14.3# |

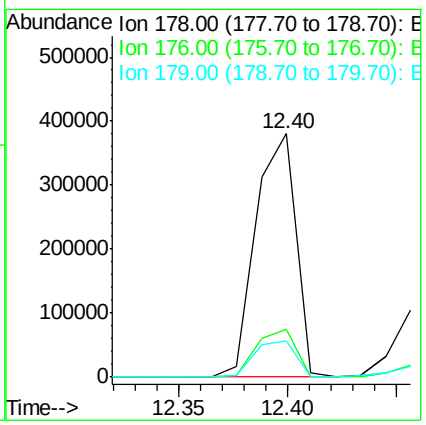


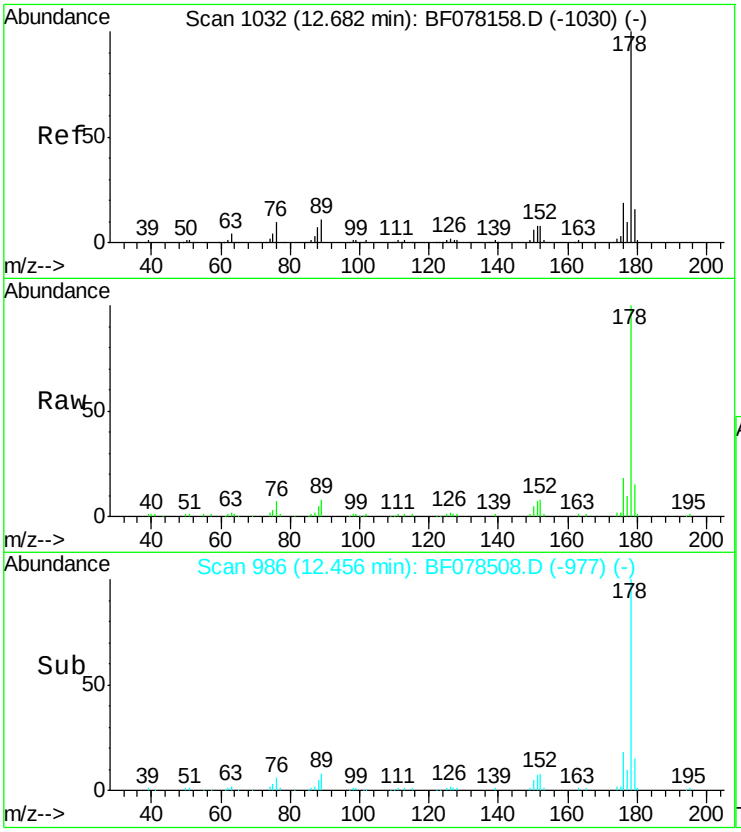




#70
Phenanthrene
Concen: 103.02 ng
RT: 12.40 min Scan# 981
Delta R.T. 0.01 min
Lab File: BF078508.D
Acq: 14 Apr 2015 19:30

Tgt Ion:178 Resp: 493295

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.6 | 15.4 | 23.0 |
| 179 | 15.1 | 12.2 | 18.2 |



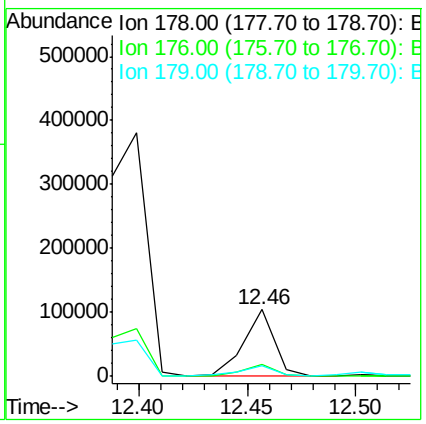


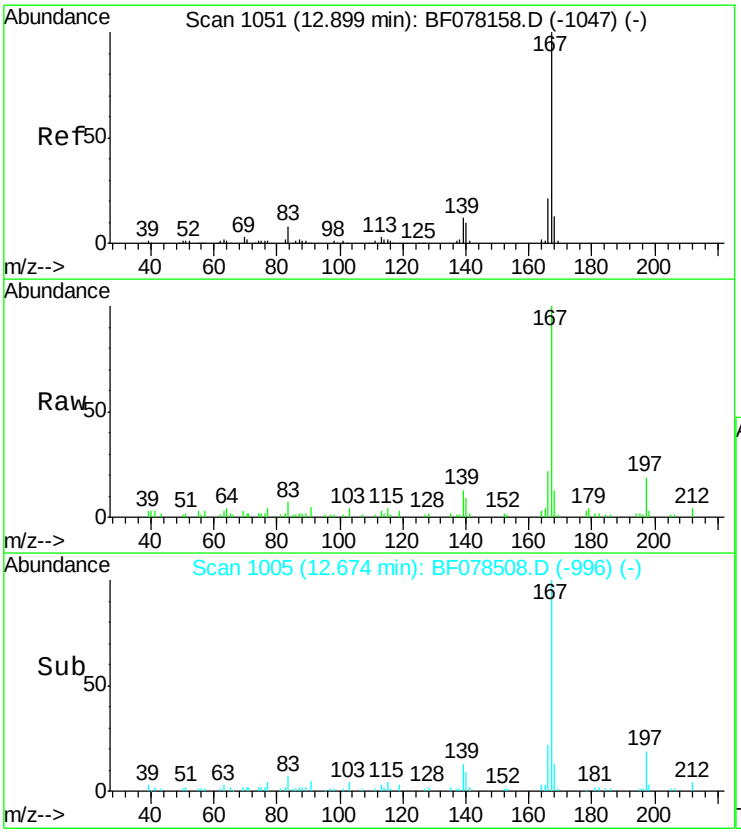

#71
Anthracene
Concen: 21.02 ng
RT: 12.46 min Scan# 986
Delta R.T. -0.00 min
Lab File: BF078508.D
Acq: 14 Apr 2015 19:30

**Instrument :**
BNA_F
**ClientSampleId :**
HS-SB06B

Tgt Ion:178 Resp: 99181

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.2 | 14.8 | 22.2 |
| 179 | 15.3 | 12.4 | 18.6 |

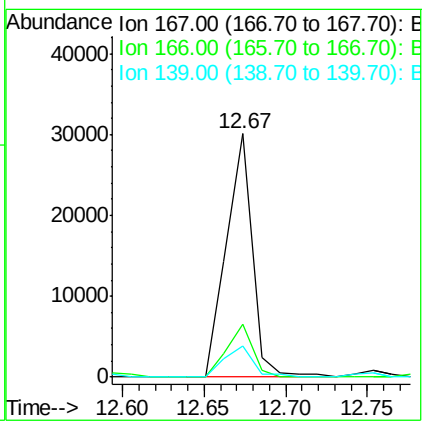


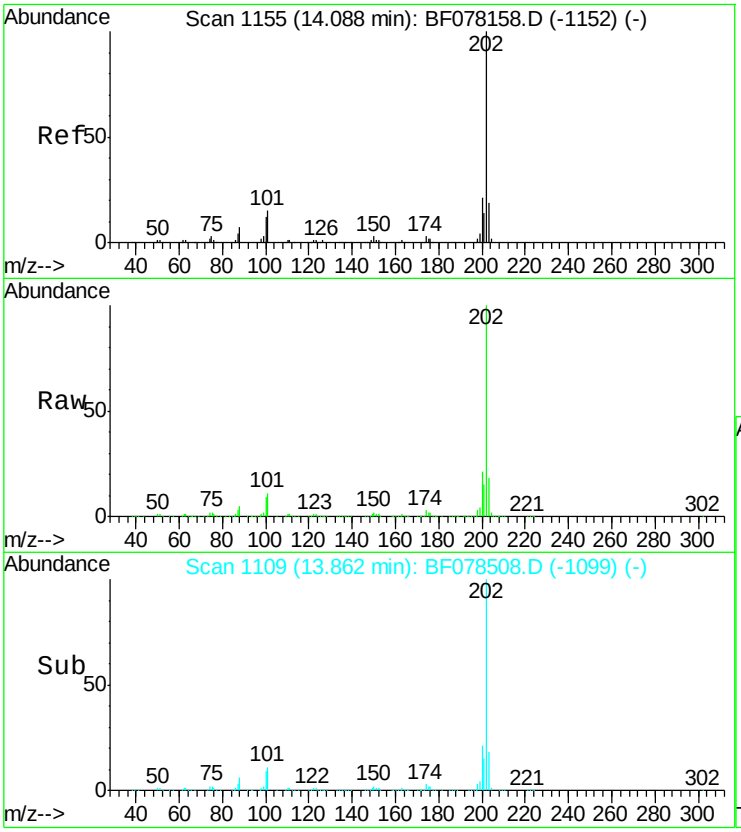




#72
Carbazole
Concen: 7.48 ng
RT: 12.67 min Scan# 1005
Delta R.T. -0.00 min
Lab File: BF078508.D
Acq: 14 Apr 2015 19:30

Tgt Ion:167 Resp: 33057

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 21.6 | 16.8 | 25.2 |
| 139 | 12.6 | 10.0 | 15.0 |



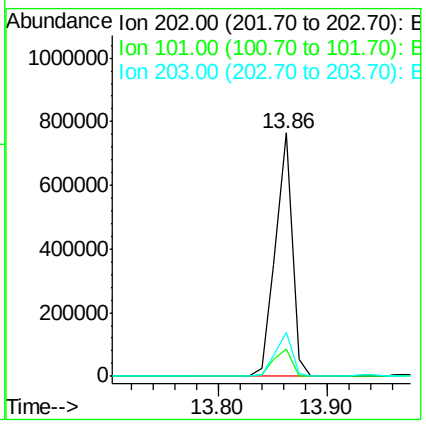


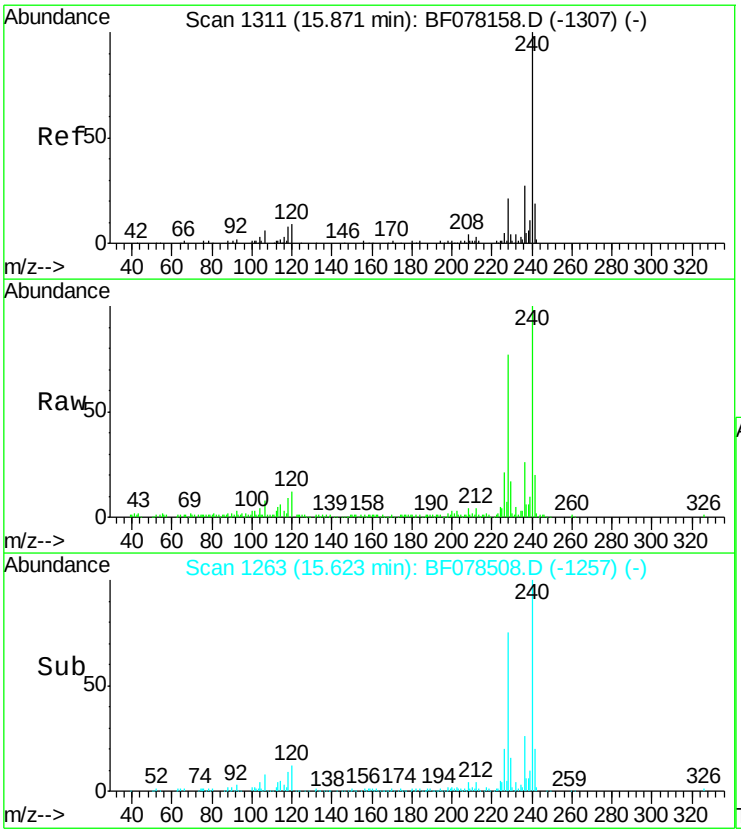

#74
Fluoranthene
Concen: 162.33 ng
RT: 13.86 min Scan# 1109
Delta R.T. 0.01 min
Lab File: BF078508.D
Acq: 14 Apr 2015 19:30

**Instrument :**
BNA_F
**ClientSampleId :**
HS-SB06B

Tgt Ion:202 Resp: 819733

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 11.3 | 0.0 | 35.2 |
| 203 | 17.9 | 0.0 | 38.5 |

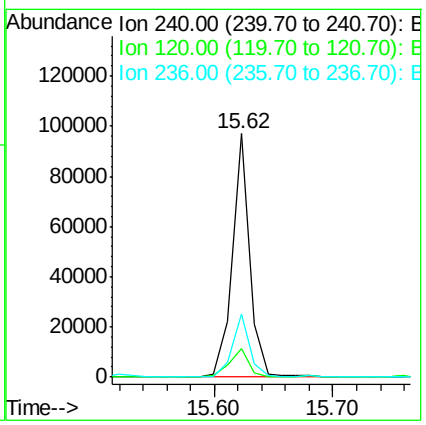


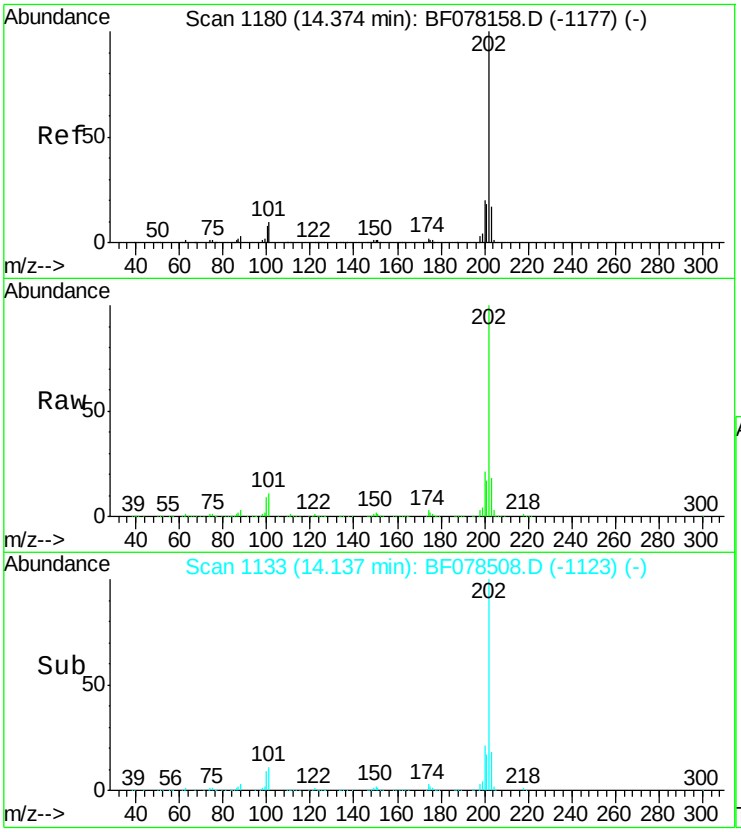




#75
Chrysene-d12
Concen: 20.00 ng
RT: 15.62 min Scan# 1263
Delta R.T. -0.03 min
Lab File: BF078508.D
Acq: 14 Apr 2015 19:30

Tgt Ion:240 Resp: 98981

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 11.7 | 7.1 | 10.7# |
| 236 | 25.9 | 21.4 | 32.2 |



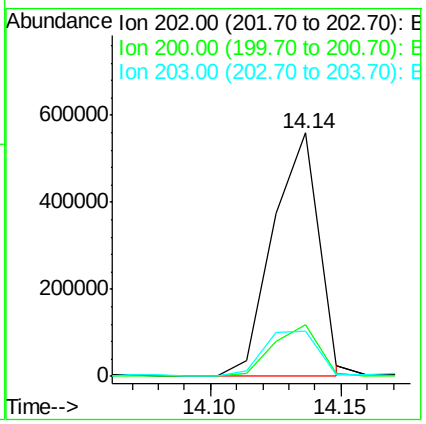


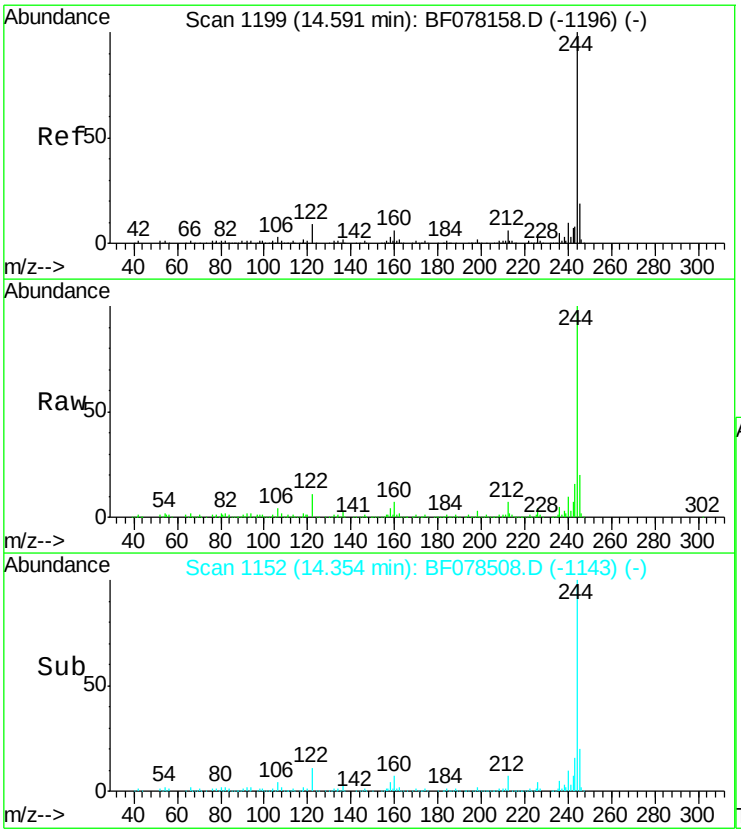

#77
Pyrene
Concen: 109.83 ng
RT: 14.14 min Scan# 1133
Delta R.T. 0.01 min
Lab File: BF078508.D
Acq: 14 Apr 2015 19:30

**Instrument :**
BNA_F
**ClientSampleId :**
HS-SB06B

Tgt Ion:202 Resp: 682461

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.4 | 16.3 | 24.5 |
| 203 | 18.3 | 13.8 | 20.6 |

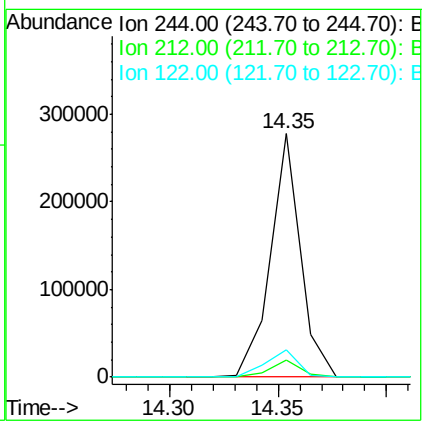


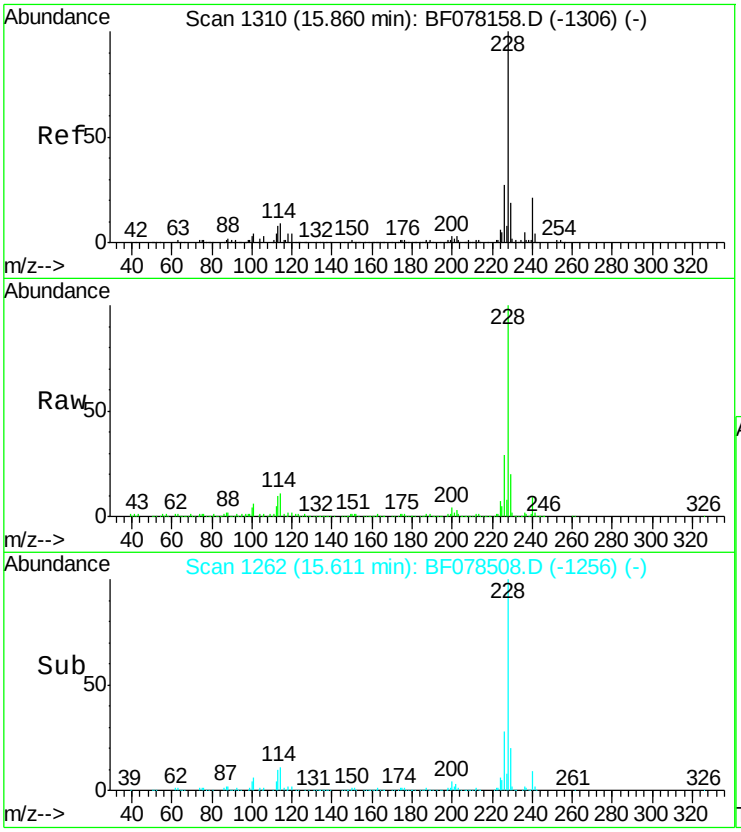




#78
Terphenyl-d14
Concen: 61.72 ng
RT: 14.35 min Scan# 1152
Delta R.T. -0.00 min
Lab File: BF078508.D
Acq: 14 Apr 2015 19:30

Tgt Ion:244 Resp: 270359

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 6.8 | 5.0 | 7.4 |
| 122 | 11.3 | 7.1 | 10.7# |



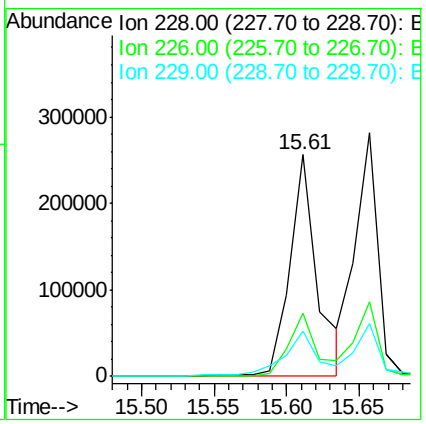


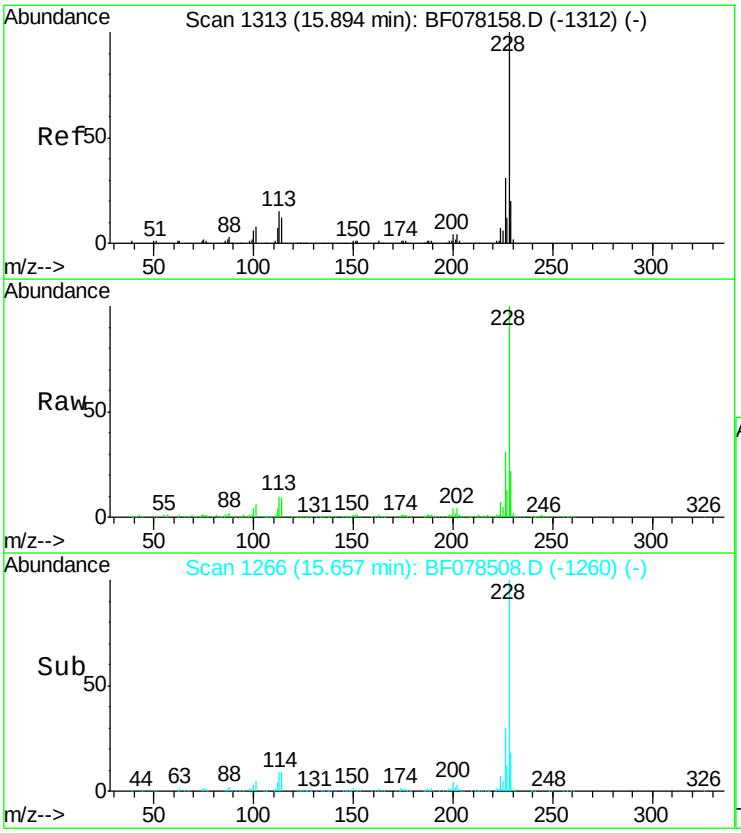

#80
Benzo(a)anthracene
Concen: 56.59 ng
RT: 15.61 min Scan# 1262
Delta R.T. -0.03 min
Lab File: BF078508.D
Acq: 14 Apr 2015 19:30

**Instrument :**
BNA_F
**ClientSampleId :**
HS-SB06B

Tgt Ion:228 Resp: 333286

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 28.6 | 21.3 | 31.9 |
| 229 | 20.3 | 15.4 | 23.2 |

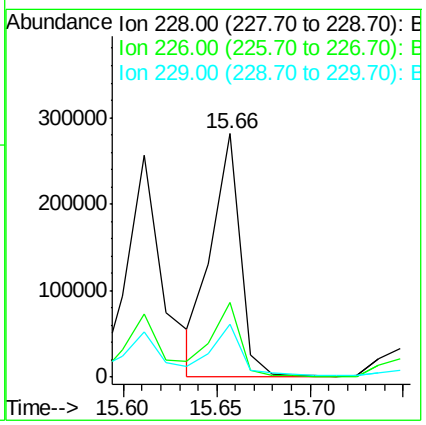


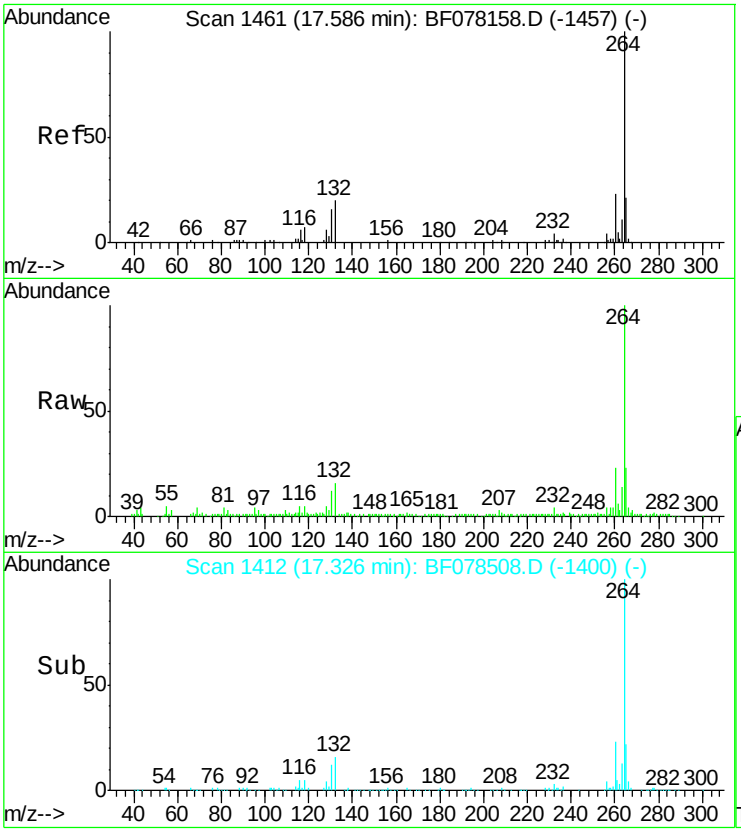




#82
Chrysene
Concen: 54.47 ng
RT: 15.66 min Scan# 1266
Delta R.T. -0.03 min
Lab File: BF078508.D
Acq: 14 Apr 2015 19:30

Tgt Ion:228 Resp: 301404

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.6 | 24.2 | 36.4 |
| 229 | 21.9 | 15.8 | 23.8 |



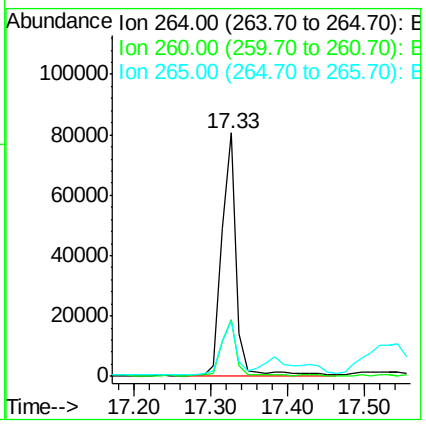


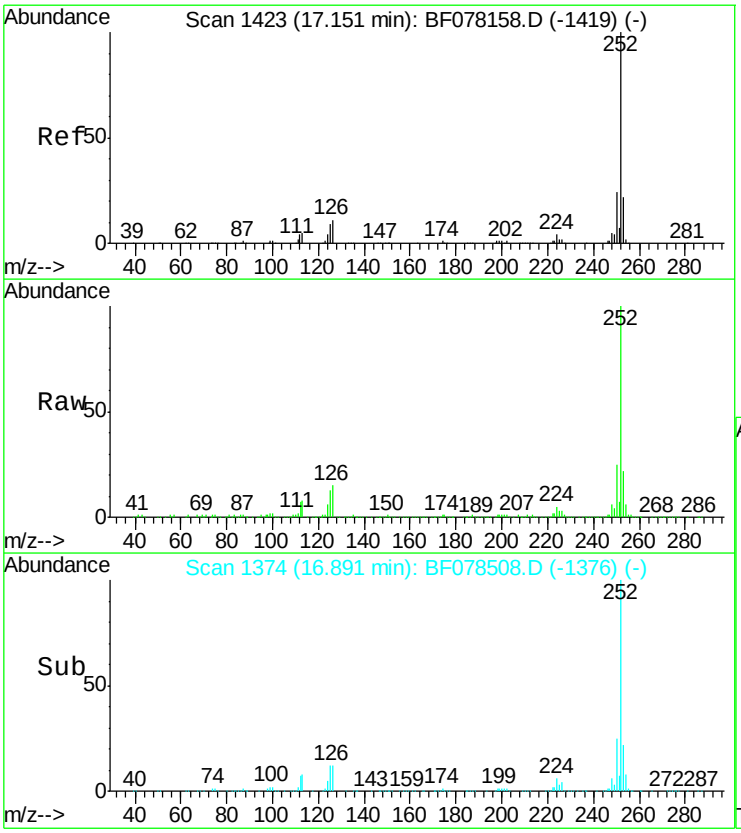

#86
Perylene-d12
Concen: 20.00 ng
RT: 17.33 min Scan# 1412
Delta R.T. -0.16 min
Lab File: BF078508.D
Acq: 14 Apr 2015 19:30

**Instrument :**
BNA_F
**ClientSampleId :**
HS-SB06B

Tgt Ion:264 Resp: 109184

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 23.3 | 18.6 | 27.8 |
| 265 | 22.7 | 17.0 | 25.6 |

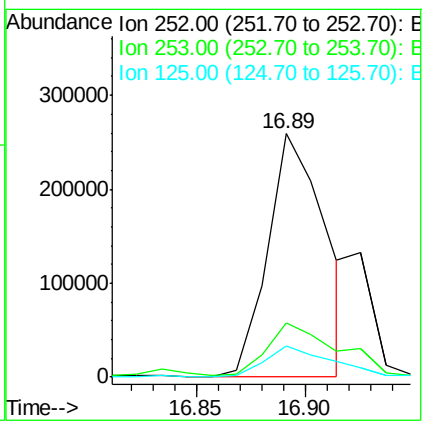


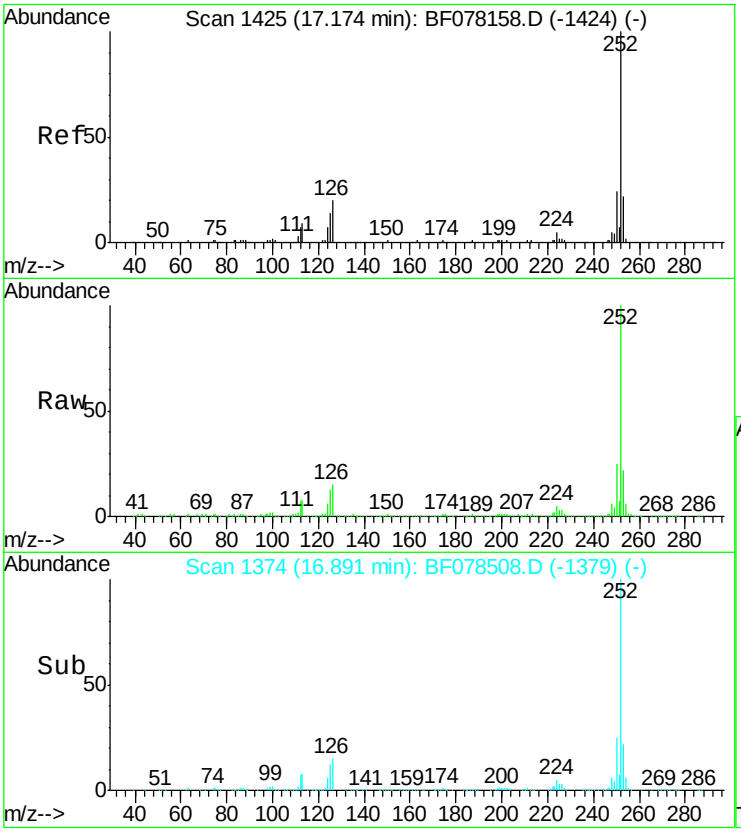




#87
Benzo(b)fluoranthene
Concen: 70.26 ng
RT: 16.89 min Scan# 1374
Delta R.T. -0.13 min
Lab File: BF078508.D
Acq: 14 Apr 2015 19:30

Tgt Ion:252 Resp: 474141

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.5 | 17.2 | 25.8 |
| 125 | 12.7 | 7.0 | 10.4# |



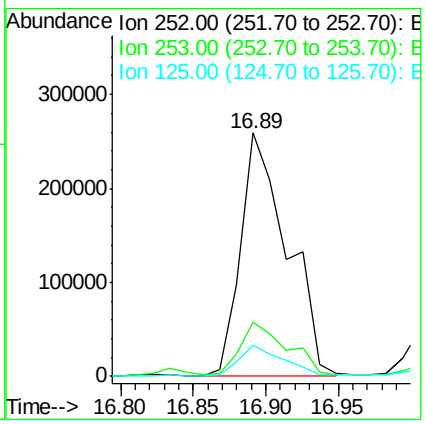


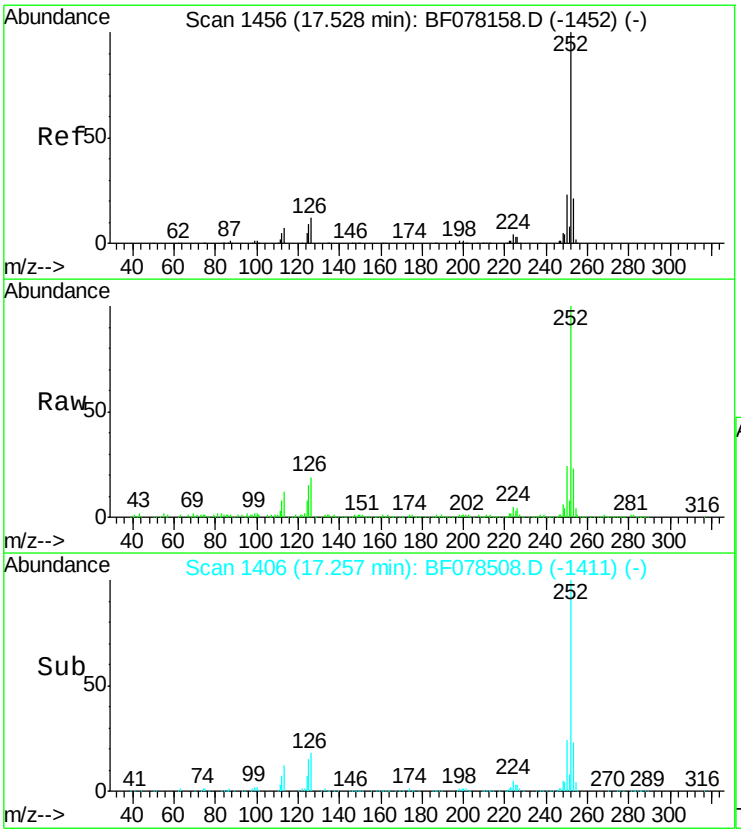

#88
Benzo(k)fluoranthene
Concen: 95.59 ng
RT: 16.89 min Scan# 1374
Delta R.T. -0.16 min
Lab File: BF078508.D
Acq: 14 Apr 2015 19:30

**Instrument :**
BNA_F
**ClientSampleId :**
HS-SB06B

Tgt Ion:252 Resp: 573226

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.5 | 17.5 | 26.3 |
| 125 | 12.7 | 11.6 | 17.4 |

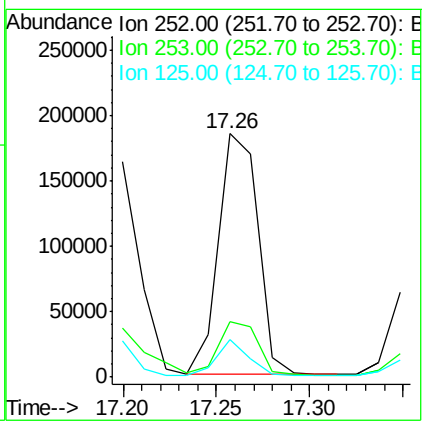


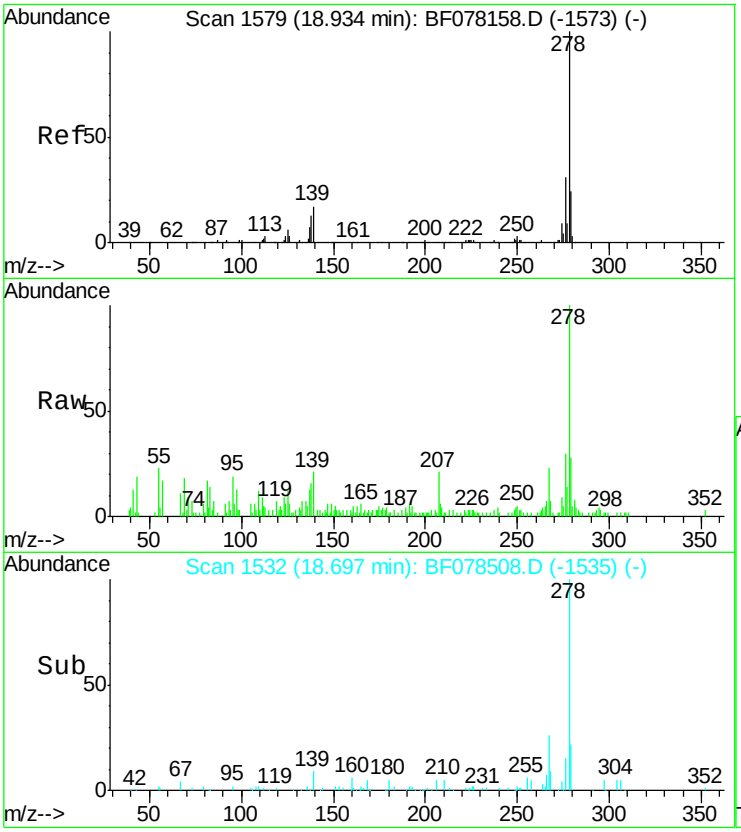




#89
Benzo(a)pyrene
Concen: 46.53 ng
RT: 17.26 min Scan# 1406
Delta R.T. -0.16 min
Lab File: BF078508.D
Acq: 14 Apr 2015 19:30

Tgt Ion:252 Resp: 274018

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.9 | 16.8 | 25.2 |
| 125 | 15.2 | 7.4 | 11.0# |






#90
Dibenzo(a,h)anthracene
Concen: 5.50 ng
RT: 18.70 min Scan# 1532
Delta R.T. -0.14 min
Lab File: BF078508.D
Acq: 14 Apr 2015 19:30

**Instrument :**
BNA_F
**ClientSampleId :**
HS-SB06B

Tgt Ion:278 Resp: 32447

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 21.2 | 13.6 | 20.4# |
| 279 | 28.1 | 19.0 | 28.6 |