Quantitation Report (LSC Reviewed)

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120315\
Data File : BF083466.D
Acq On : 3 Dec 2015 18:17
Operator : UM/IZ
Sample : G4585-07
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-P3WC-18(0-4)

Quant Time: Dec 03 18:49:49 2015
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 03 17:02:53 2015
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 6.52 | 152 | 169873 | 20.00 | ng | -0.01 |
| 21) Naphthalene-d8 | 7.81 | 136 | 672367 | 20.00 | ng | -0.01 |
| 38) Acenaphthene-d10 | 9.56 | 164 | 344821 | 20.00 | ng | 0.00 |
| 63) Phenanthrene-d10 | 11.09 | 188 | 586453 | 20.00 | ng | 0.00 |
| 75) Chrysene-d12 | 14.71 | 240 | 442992 | 20.00 | ng | -0.01 |
| 86) Perylene-d12 | 16.77 | 264 | 357210 | 20.00 | ng | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 5) 2-Fluorophenol | 5.12 | 112 | 1095852 | 96.80 | ng | 0.00 |
| 7) Phenol-d6 | 6.20 | 99 | 1601664 | 103.37 | ng | 0.00 |
| 23) Nitrobenzene-d5 | 7.10 | 82 | 1033112 | 67.54 | ng | 0.00 |
| 41) 2,4,6-Tribromophenol | 10.35 | 330 | 298976 | 86.37 | ng | -0.01 |
| 44) 2-Fluorobiphenyl | 8.90 | 172 | 1610404 | 66.55 | ng | 0.00 |
| 78) Terphenyl-d14 | 13.19 | 244 | 1390106 | 74.84 | ng | 0.00 |
| **Target Compounds** | | | | | | Qvalue |
| 31) Naphthalene | 7.84 | 128 | 1249191 | 34.24 | ng | 99 |
| 37) 2-Methylnaphthalene | 8.53 | 142 | 176389 | 7.23 | ng | 99 |
| 45) 1,1'-Biphenyl | 8.99 | 154 | 66291 | 2.19 | ng | 95 |
| 48) Acenaphthylene | 9.42 | 152 | 305778 | 8.32 | ng | 97 |
| 49) Dimethylphthalate | 9.30 | 163 | 221888 | 7.92 | ng | 97 |
| 57) Fluorene | 10.10 | 166 | 87362 | 3.49 | ng | 98 |
| 70) Phenanthrene | 11.12 | 178 | 430581 | 12.41 | ng | 100 |
| 71) Anthracene | 11.17 | 178 | 90020 | 2.58 | ng | 99 |
| 74) Fluoranthene | 12.63 | 202 | 245391 | 6.82 | ng | 93 |
| 77) Pyrene | 12.93 | 202 | 390141 | 12.61 | ng | 100 |
| 80) Benzo(a)anthracene | 14.69 | 228 | 160430m | 5.91 | ng | |
| 82) Chrysene | 14.74 | 228 | 145691 | 5.56 | ng | 98 |
| 85) Indeno(1,2,3-cd)pyrene | 18.15 | 276 | 172827 | 9.05 | ng | 96 |
| 87) Benzo(b)fluoranthene | 16.26 | 252 | 268681m | 11.72 | ng | |
| 88) Benzo(k)fluoranthene | 16.29 | 252 | 80459m | 3.72 | ng | |
| 89) Benzo(a)pyrene | 16.71 | 252 | 224873 | 11.42 | ng | 99 |
| 90) Dibenzo(a,h)anthracene | 18.17 | 278 | 49556 | 2.89 | ng | 97 |
| 91) Benzo(g,h,i)perylene | 18.52 | 276 | 203491 | 12.09 | ng | 97 |

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

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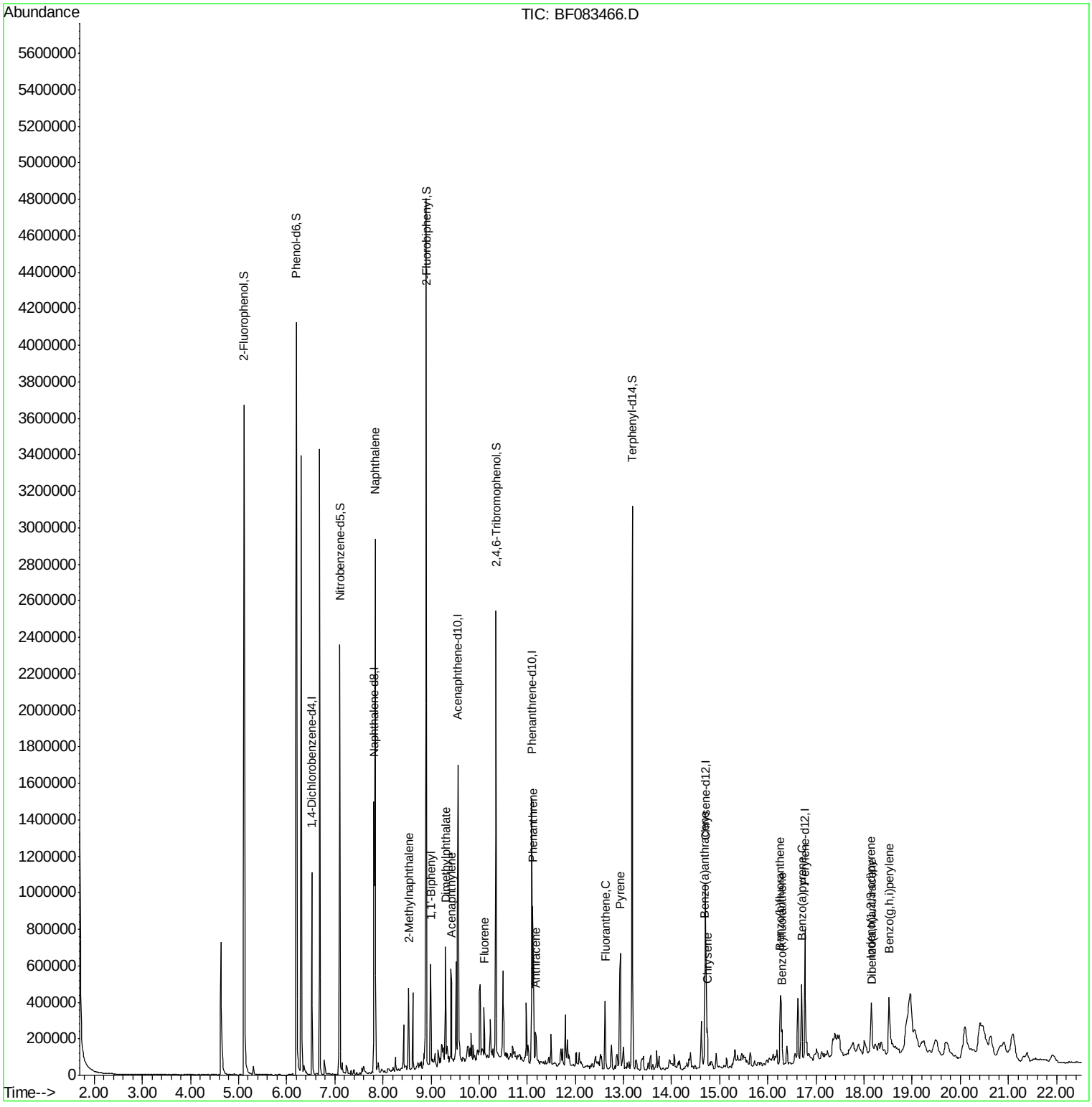
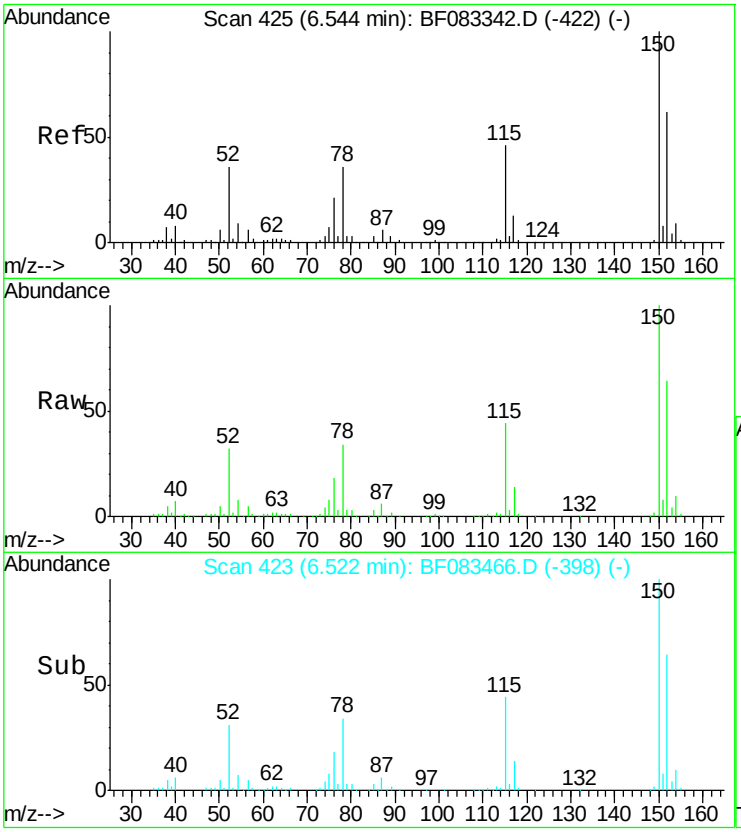
Sample : G4585-07
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SB-P3WC-18(0-4)

Quant Time: Dec 03 18:49:49 2015
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 03 17:02:53 2015
Response via : Initial Calibration



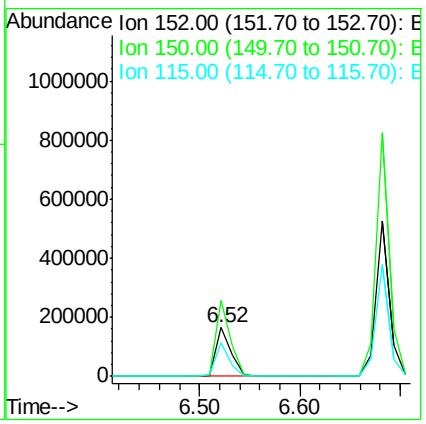


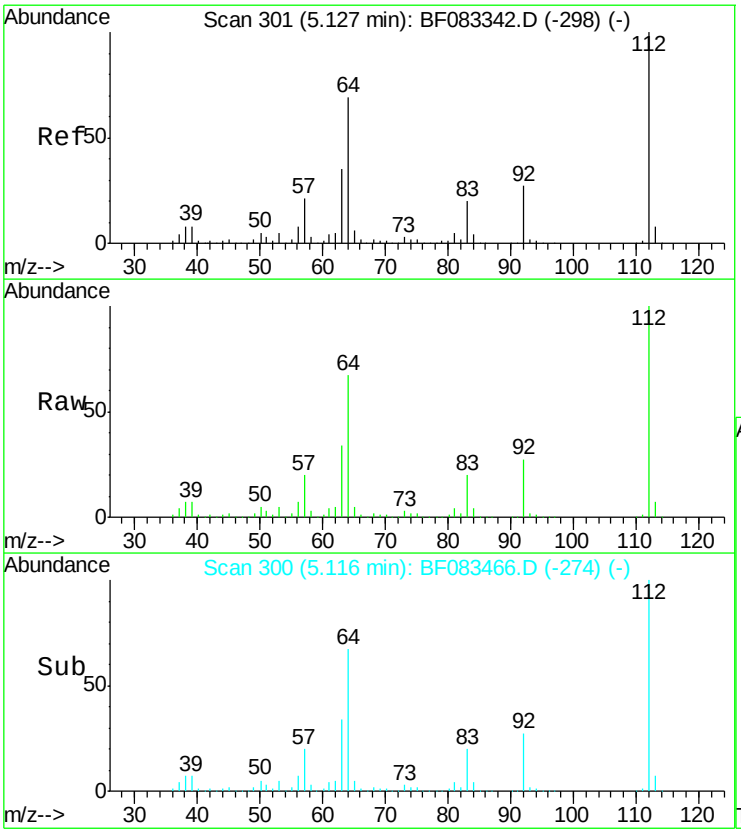

#1
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.52 min Scan# 423
Delta R.T. -0.01 min
Lab File: BF083466.D
Acq: 3 Dec 2015 18:17

**Instrument :**
BNA_F
**ClientSampleId :**
SB-P3WC-18(0-4)

Tgt Ion:152 Resp: 169873

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 157.2 | 129.8 | 194.8 |
| 115 | 69.4 | 59.2 | 88.8 |

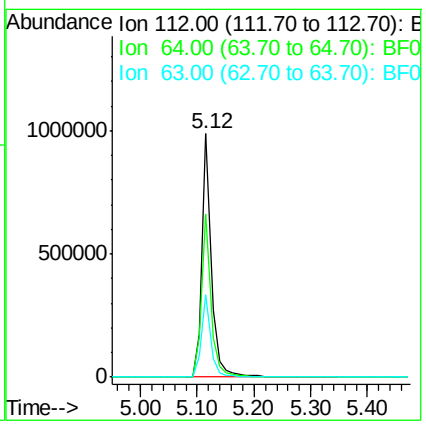


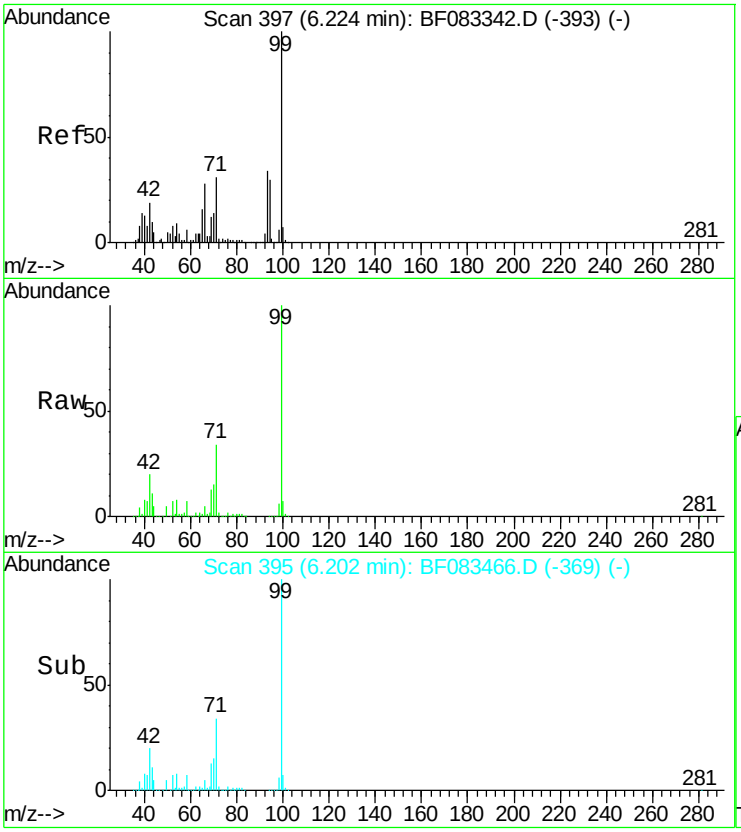




#5
2-Fluorophenol
Concen: 96.80 ng
RT: 5.12 min Scan# 300
Delta R.T. -0.00 min
Lab File: BF083466.D
Acq: 3 Dec 2015 18:17

Tgt Ion:112 Resp: 1095852

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 66.7 | 55.6 | 83.4 |
| 63 | 33.7 | 28.2 | 42.2 |



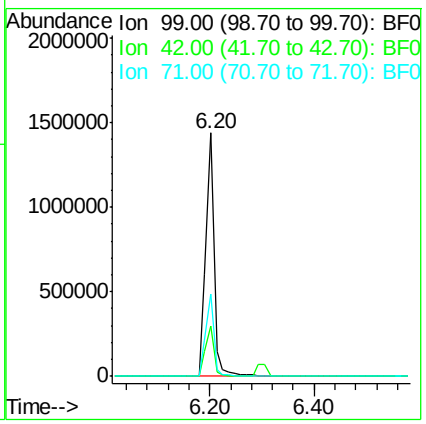


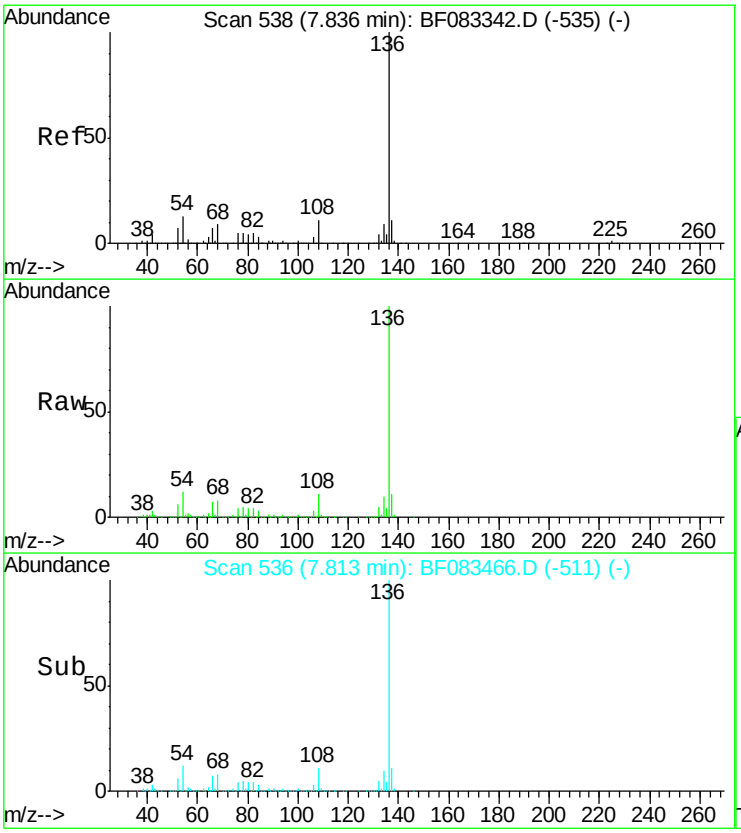

#7
Phenol-d6
Concen: 103.37 ng
RT: 6.20 min Scan# 395
Delta R.T. -0.00 min
Lab File: BF083466.D
Acq: 3 Dec 2015 18:17

**Instrument :**
BNA_F
**ClientSampleId :**
SB-P3WC-18(0-4)

Tgt Ion: 99 Resp: 1601664

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 20.5 | 14.9 | 22.3 |
| 71 | 33.6 | 24.7 | 37.1 |

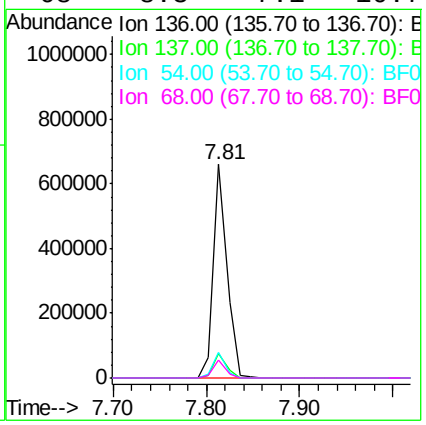


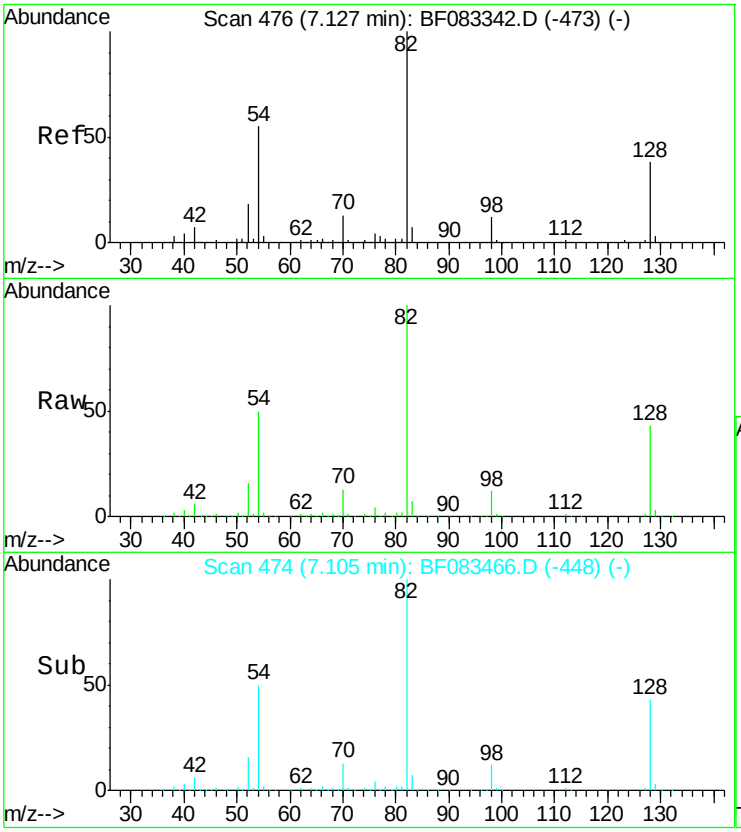




#21
Naphthalene-d8
Concen: 20.00 ng
RT: 7.81 min Scan# 536
Delta R.T. -0.01 min
Lab File: BF083466.D
Acq: 3 Dec 2015 18:17

Tgt Ion:136 Resp: 672367

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.1 | 9.0 | 13.4 |
| 54 | 11.8 | 10.1 | 15.1 |
| 68 | 8.3 | 7.1 | 10.7 |



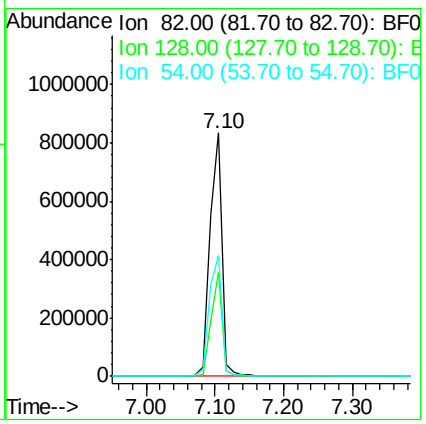


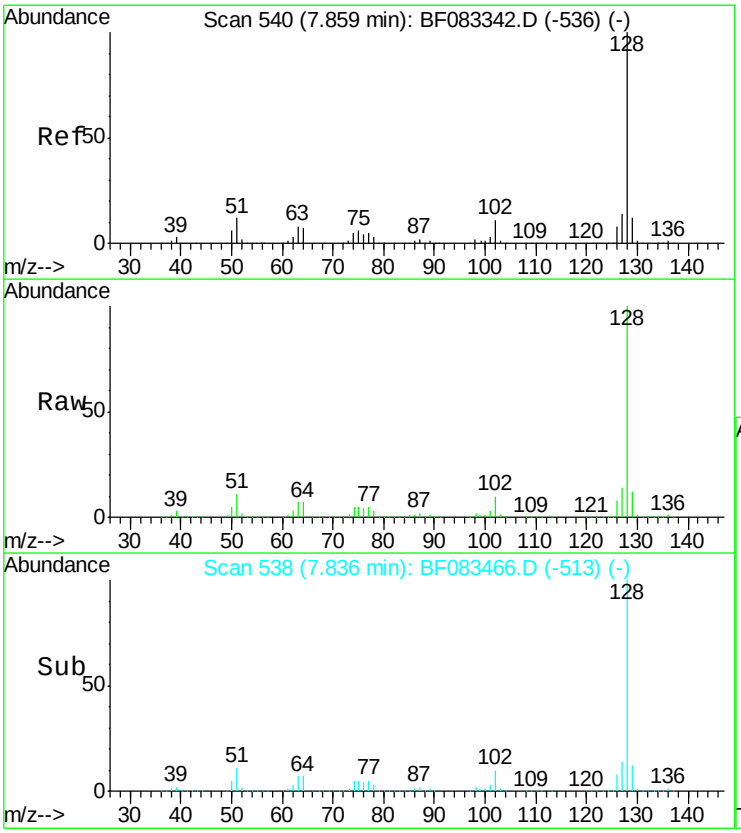

#23
Nitrobenzene-d5
Concen: 67.54 ng
RT: 7.10 min Scan# 474
Delta R.T. -0.00 min
Lab File: BF083466.D
Acq: 3 Dec 2015 18:17

**Instrument :**
BNA_F
**ClientSampleId :**
SB-P3WC-18(0-4)

Tgt Ion: 82 Resp: 1033112

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 42.9 | 30.6 | 46.0 |
| 54 | 49.6 | 43.8 | 65.6 |

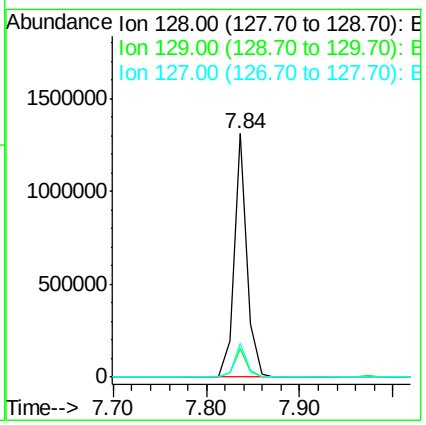


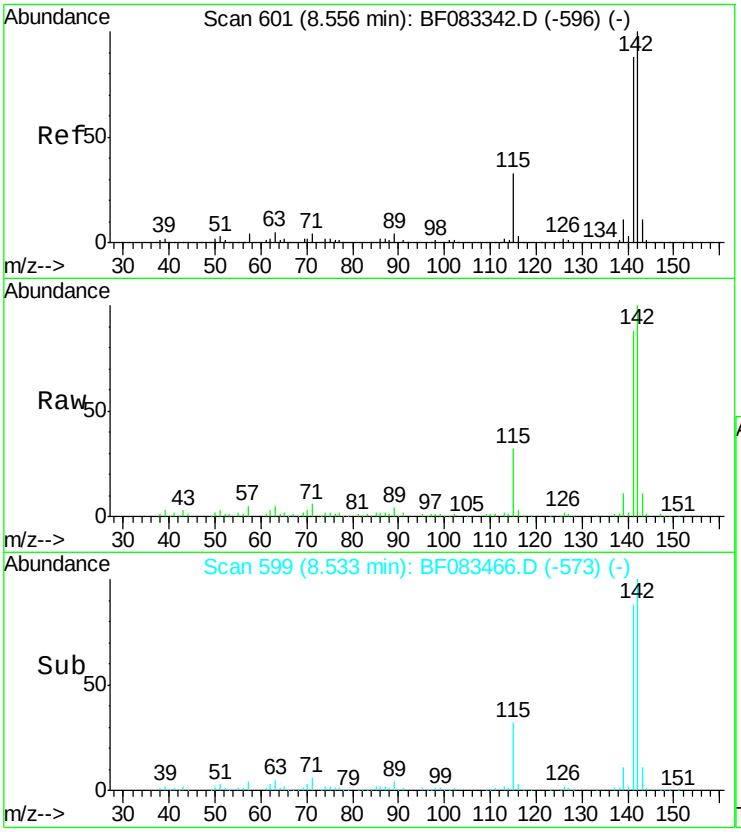




#31
Naphthalene
Concen: 34.24 ng
RT: 7.84 min Scan# 538
Delta R.T. -0.01 min
Lab File: BF083466.D
Acq: 3 Dec 2015 18:17

Tgt Ion:128 Resp: 1249191

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.5 | 9.7 | 14.5 |
| 127 | 13.6 | 11.0 | 16.4 |



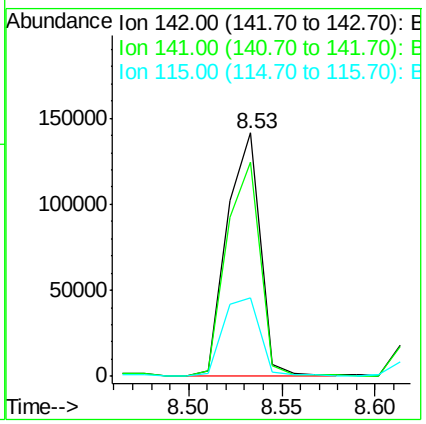


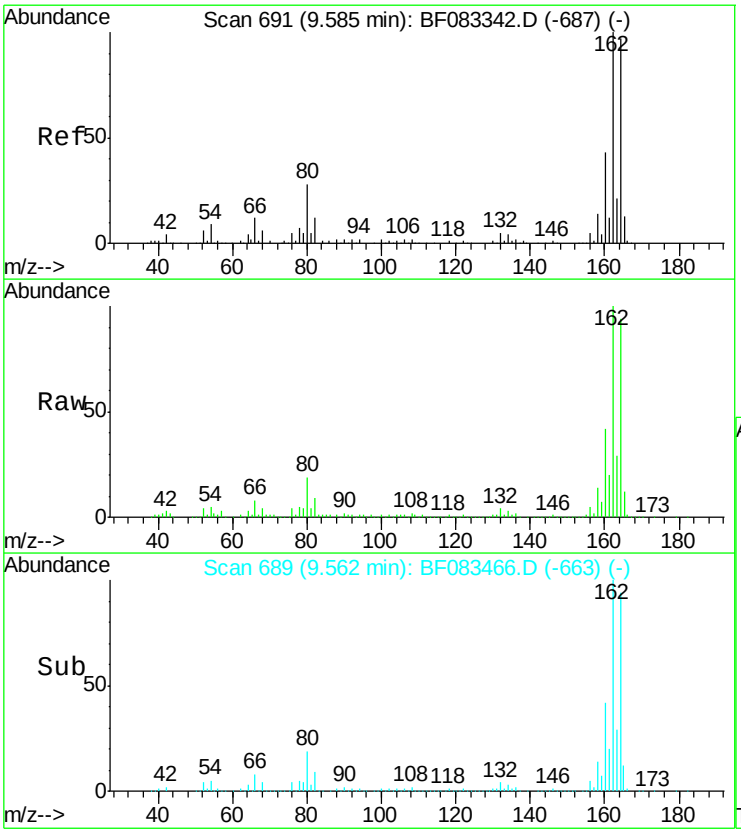

#37
2-Methylnaphthalene
Concen: 7.23 ng
RT: 8.53 min Scan# 599
Delta R.T. -0.00 min
Lab File: BF083466.D
Acq: 3 Dec 2015 18:17

**Instrument :**
BNA_F
**ClientSampleId :**
SB-P3WC-18(0-4)

Tgt Ion:142 Resp: 176389

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 87.8 | 70.6 | 105.8 |
| 115 | 32.2 | 26.2 | 39.2 |

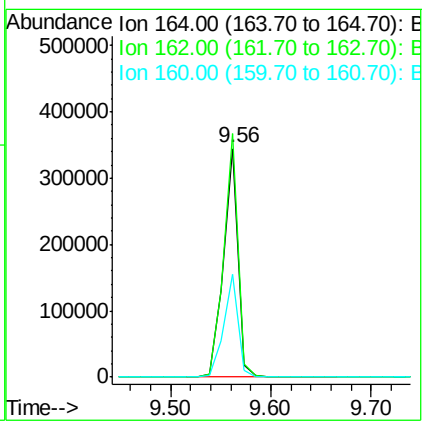


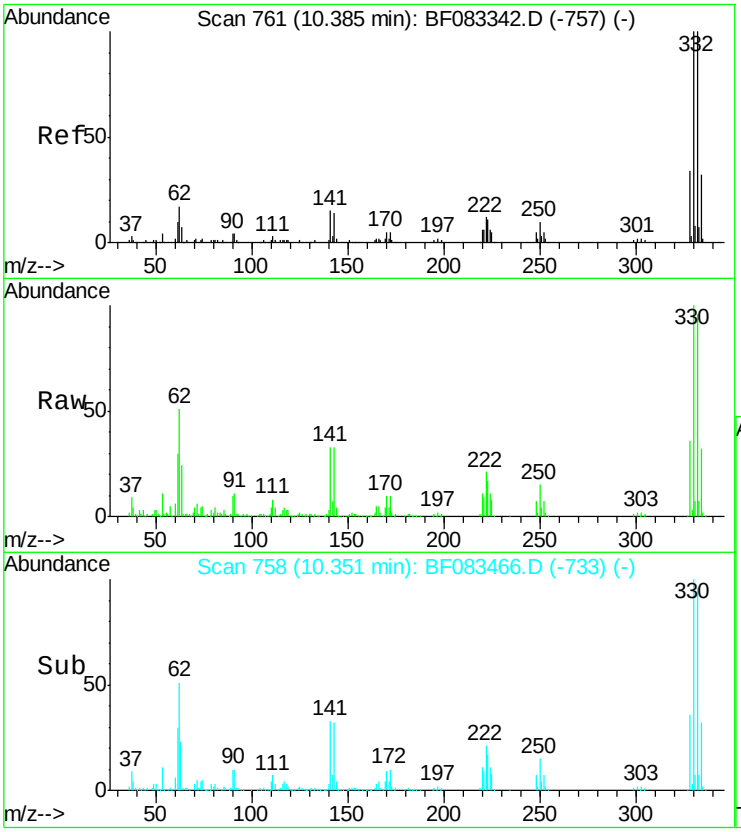




#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.56 min Scan# 689
Delta R.T. -0.00 min
Lab File: BF083466.D
Acq: 3 Dec 2015 18:17

Tgt Ion:164 Resp: 344821

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 106.4 | 82.6 | 123.8 |
| 160 | 44.7 | 35.3 | 52.9 |



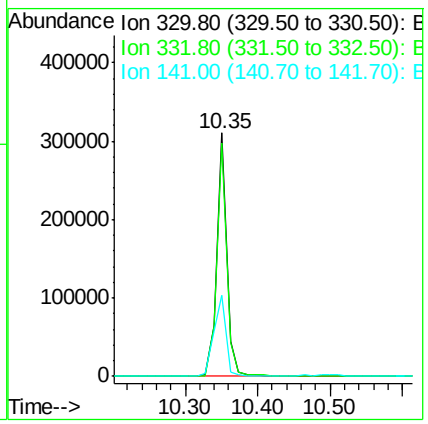


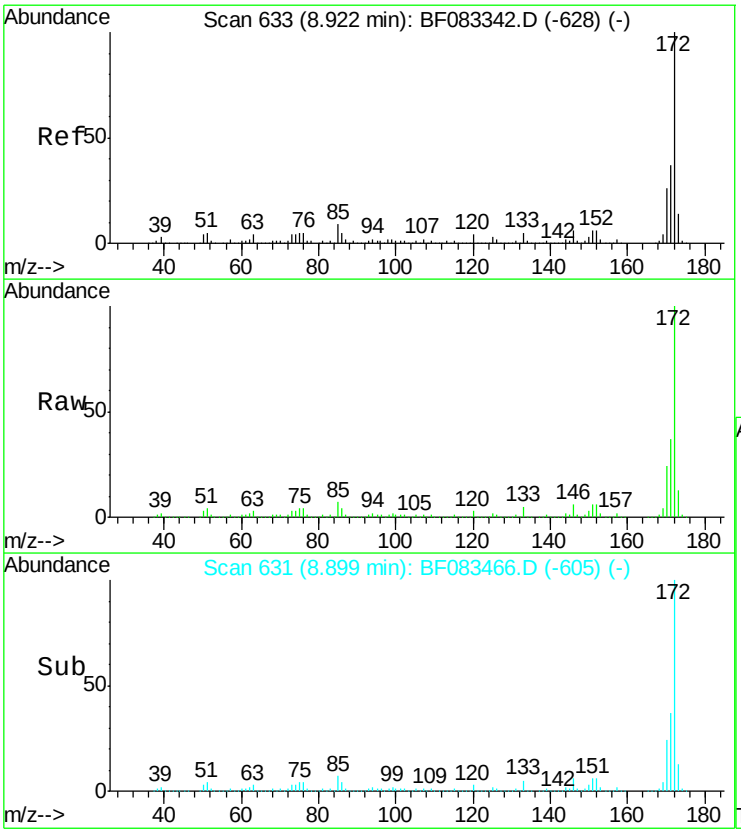

#41
2,4,6-Tribromophenol
Concen: 86.37 ng
RT: 10.35 min Scan# 758
Delta R.T. -0.01 min
Lab File: BF083466.D
Acq: 3 Dec 2015 18:17

**Instrument :**
BNA_F
**ClientSampleId :**
SB-P3WC-18(0-4)

Tgt Ion:330 Resp: 298976

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 96.7 | 77.8 | 116.6 |
| 141 | 39.7 | 29.4 | 44.0 |

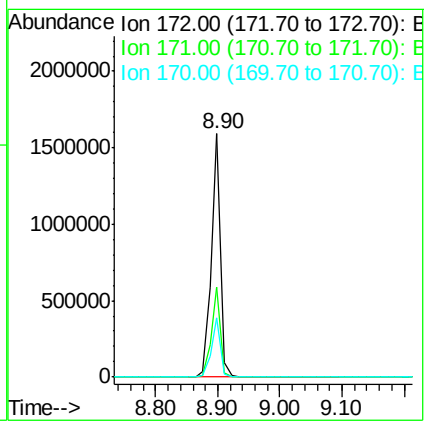


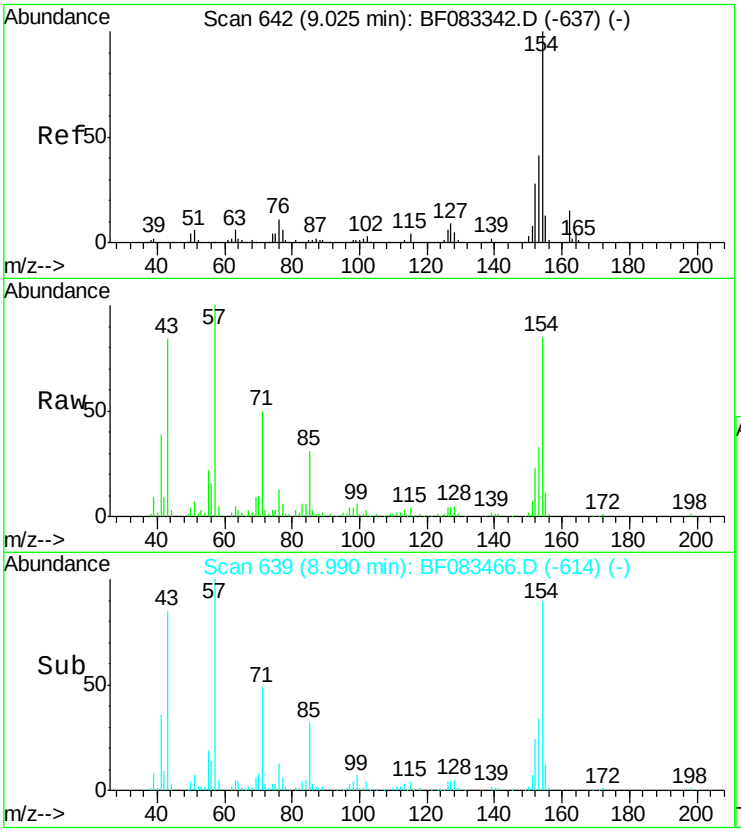




#44
2-Fluorobiphenyl
Concen: 66.55 ng
RT: 8.90 min Scan# 631
Delta R.T. -0.00 min
Lab File: BF083466.D
Acq: 3 Dec 2015 18:17

Tgt Ion:172 Resp: 1610404

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.9 | 29.4 | 44.0 |
| 170 | 24.5 | 20.4 | 30.6 |



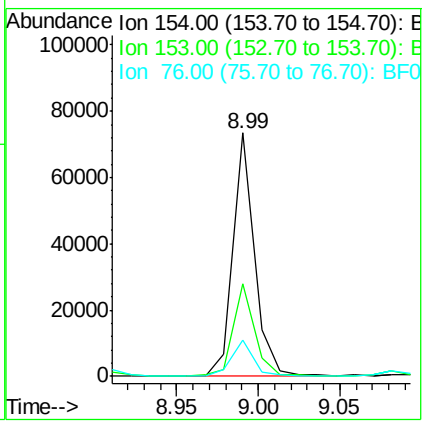


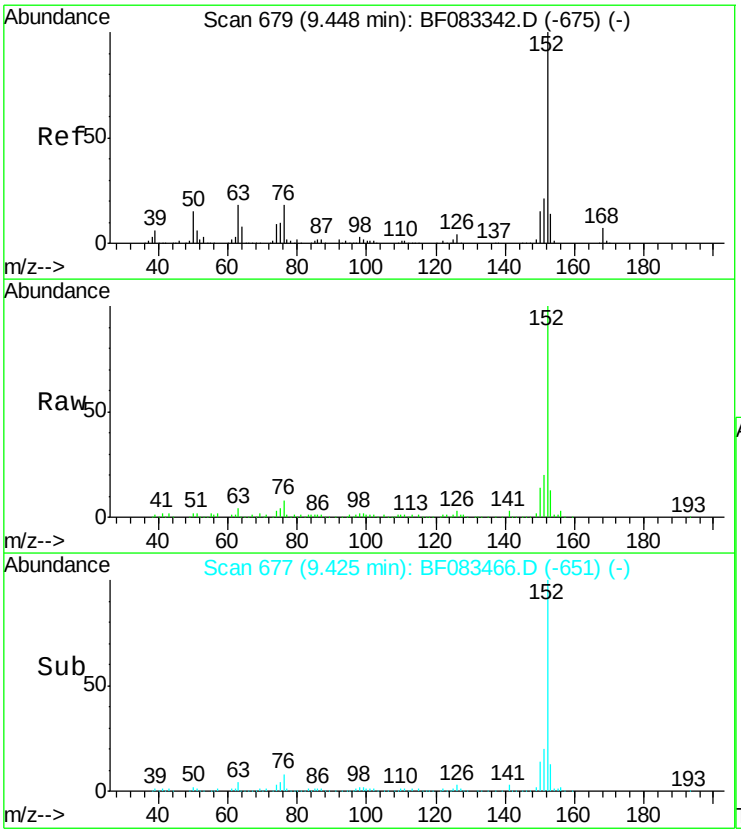

#45
1,1'-Biphenyl
Concen: 2.19 ng
RT: 8.99 min Scan# 639
Delta R.T. -0.01 min
Lab File: BF083466.D
Acq: 3 Dec 2015 18:17

**Instrument :**
BNA_F
**ClientSampleId :**
SB-P3WC-18(0-4)

Tgt Ion:154 Resp: 66291

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 38.2 | 20.6 | 60.6 |
| 76 | 14.8 | 0.0 | 30.5 |

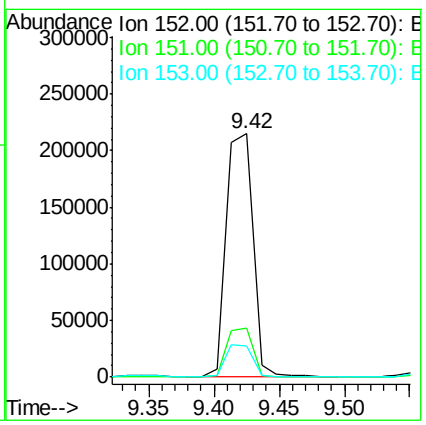


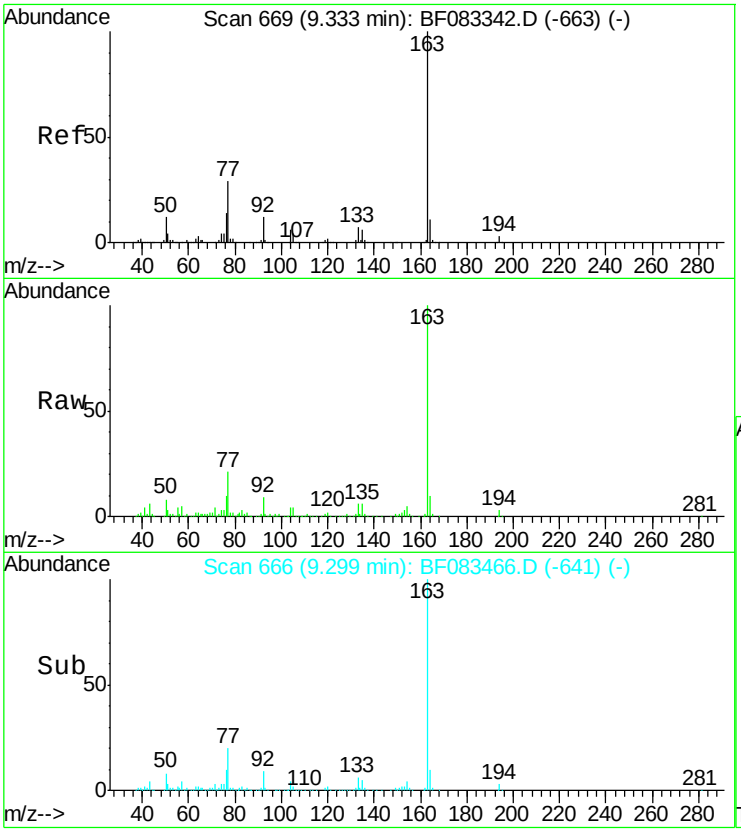




#48
Acenaphthylene
Concen: 8.32 ng
RT: 9.42 min Scan# 677
Delta R.T. -0.00 min
Lab File: BF083466.D
Acq: 3 Dec 2015 18:17

Tgt Ion:152 Resp: 305778

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 19.9 | 16.7 | 25.1 |
| 153 | 12.7 | 11.2 | 16.8 |



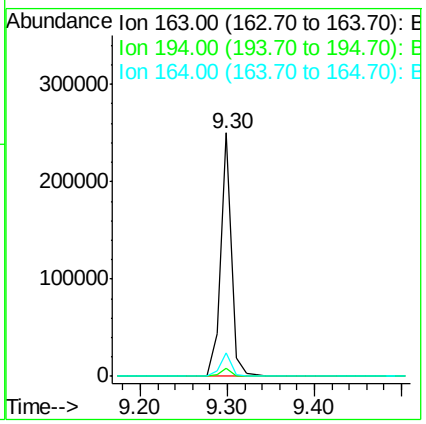


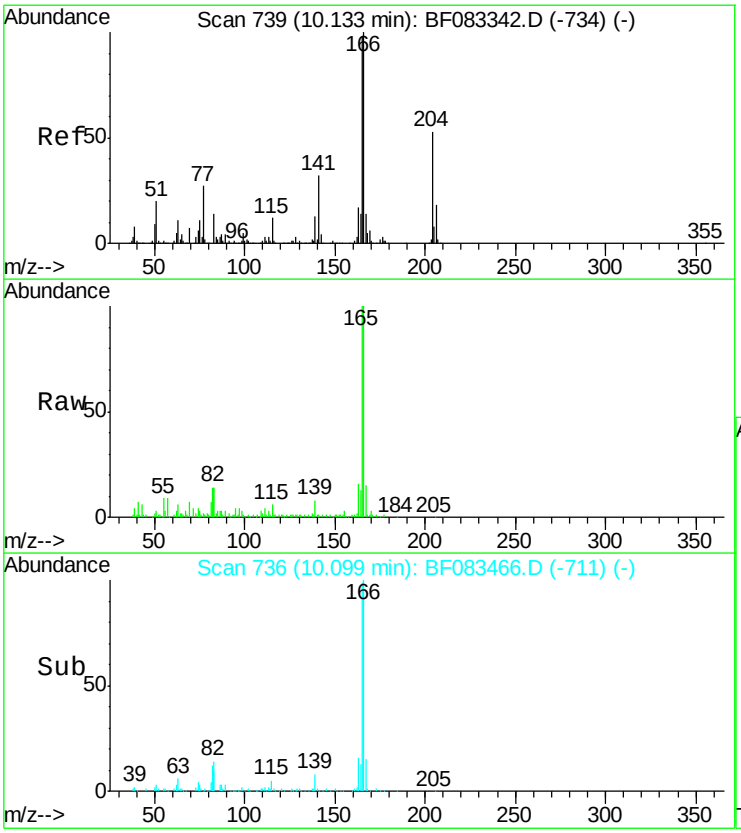

#49
Dimethylphthalate
Concen: 7.92 ng
RT: 9.30 min Scan# 666
Delta R.T. -0.01 min
Lab File: BF083466.D
Acq: 3 Dec 2015 18:17

**Instrument :**
BNA_F
**ClientSampleId :**
SB-P3WC-18(0-4)

Tgt Ion:163 Resp: 221888

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 163 | 100 | | |
| 194 | 3.4 | 2.7 | 4.1 |
| 164 | 9.8 | 8.8 | 13.2 |

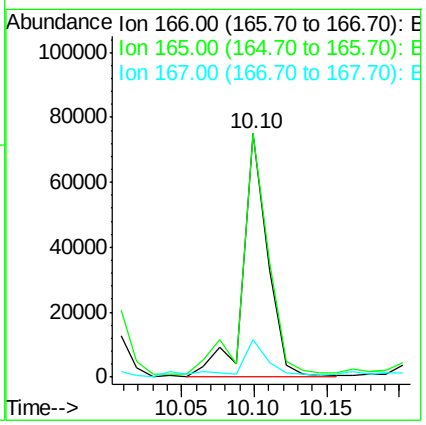


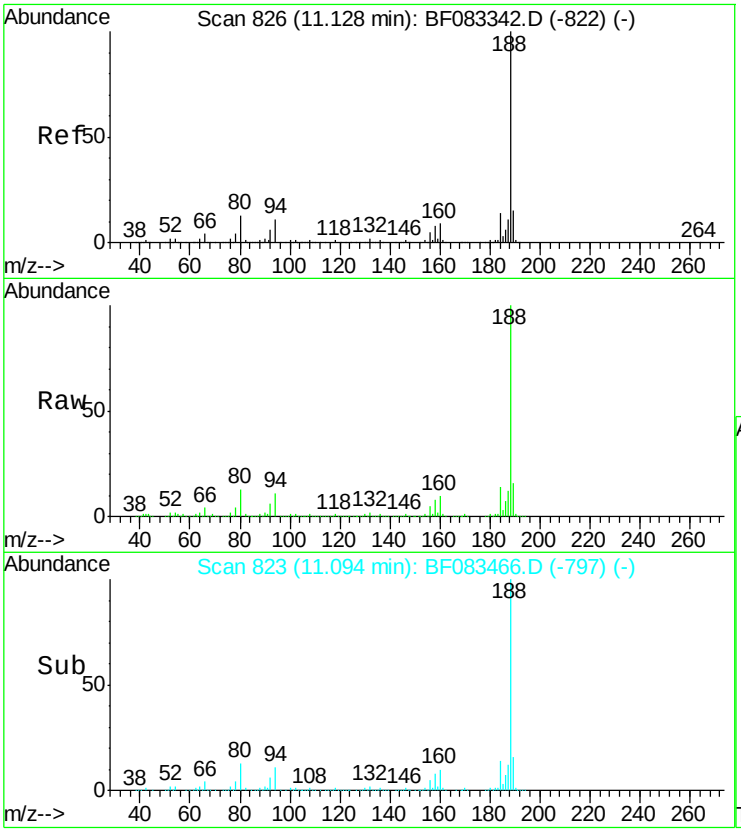




#57
Fluorene
Concen: 3.49 ng
RT: 10.10 min Scan# 736
Delta R.T. -0.01 min
Lab File: BF083466.D
Acq: 3 Dec 2015 18:17

Tgt Ion:166 Resp: 87362

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 99.9 | 78.3 | 117.5 |
| 167 | 15.4 | 11.1 | 16.7 |



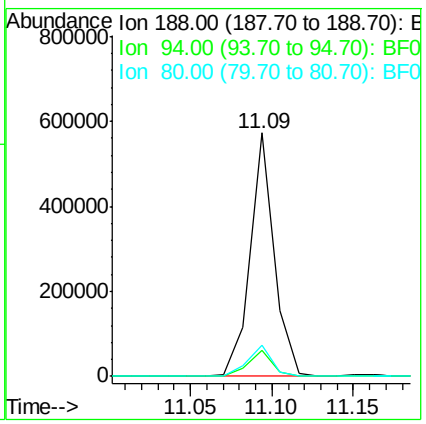


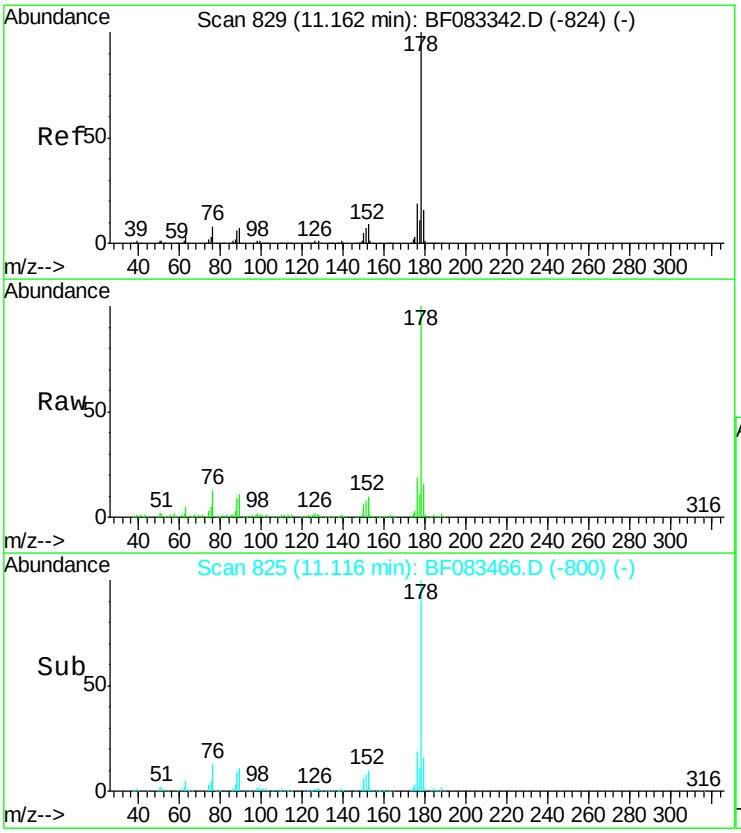

#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.09 min Scan# 823
Delta R.T. -0.00 min
Lab File: BF083466.D
Acq: 3 Dec 2015 18:17

**Instrument :**
BNA_F
**ClientSampleId :**
SB-P3WC-18(0-4)

Tgt Ion:188 Resp: 586453

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 10.8 | 8.7 | 13.1 |
| 80 | 12.7 | 10.3 | 15.5 |

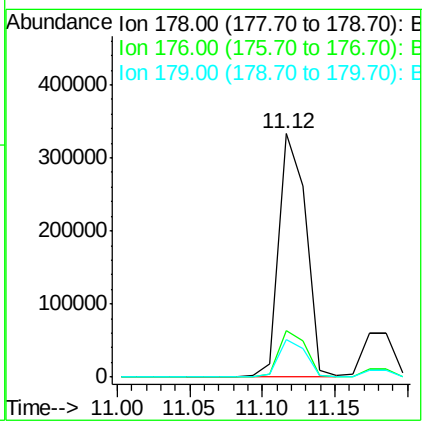


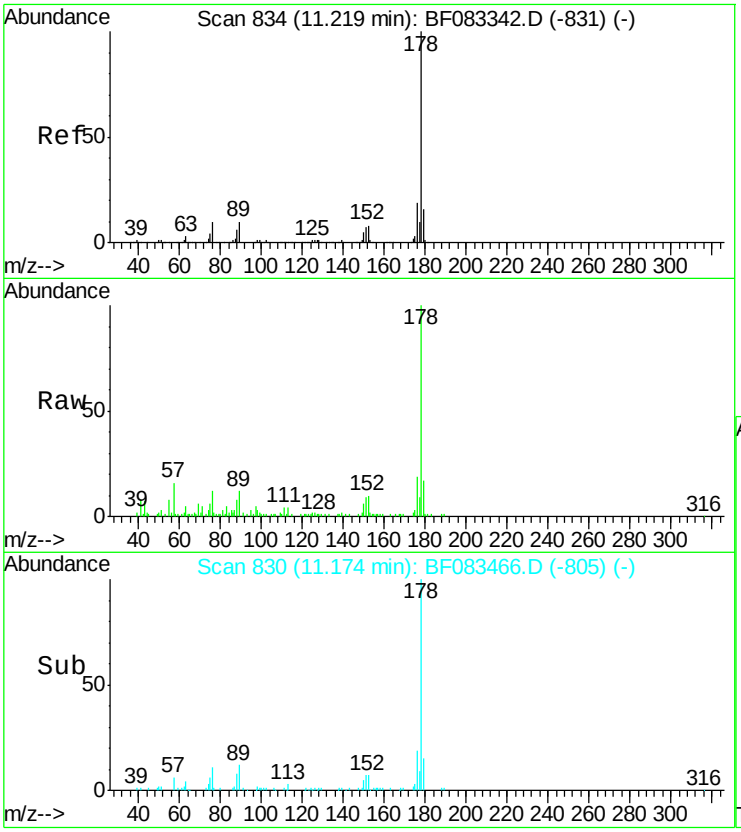




#70
Phenanthrene
Concen: 12.41 ng
RT: 11.12 min Scan# 825
Delta R.T. -0.01 min
Lab File: BF083466.D
Acq: 3 Dec 2015 18:17

Tgt Ion:178 Resp: 430581

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.3 | 15.3 | 22.9 |
| 179 | 15.6 | 12.4 | 18.6 |



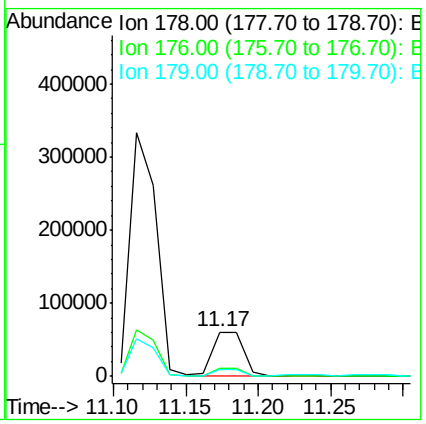


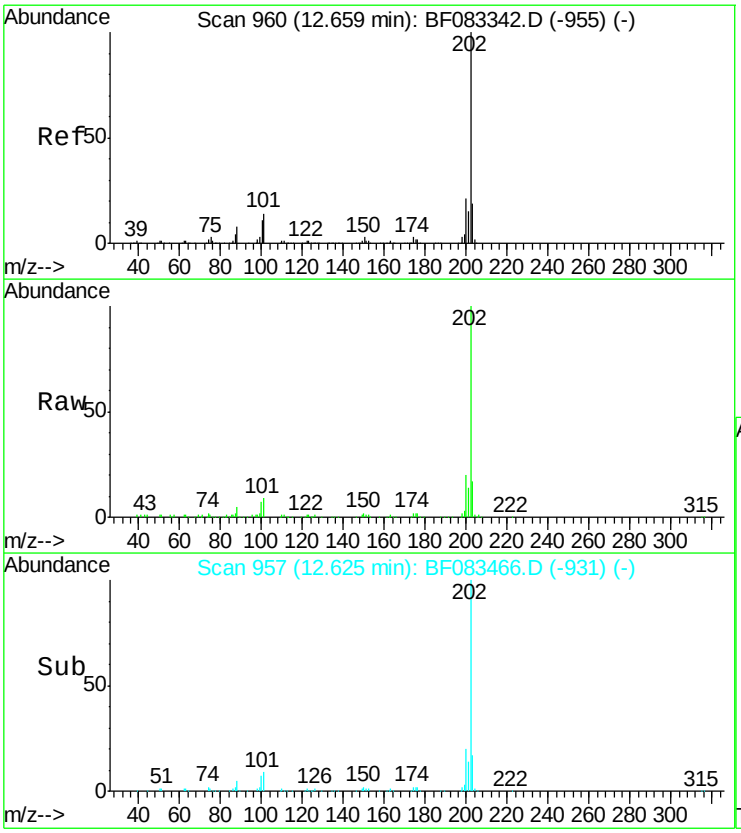

#71
Anthracene
Concen: 2.58 ng
RT: 11.17 min Scan# 830
Delta R.T. -0.01 min
Lab File: BF083466.D
Acq: 3 Dec 2015 18:17

**Instrument :**
BNA_F
**ClientSampleId :**
SB-P3WC-18(0-4)

Tgt Ion:178 Resp: 90020

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.9 | 15.6 | 23.4 |
| 179 | 16.6 | 12.8 | 19.2 |

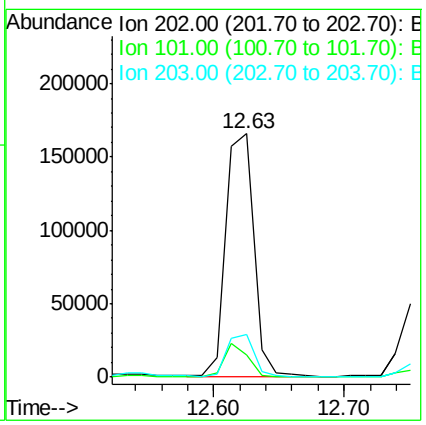


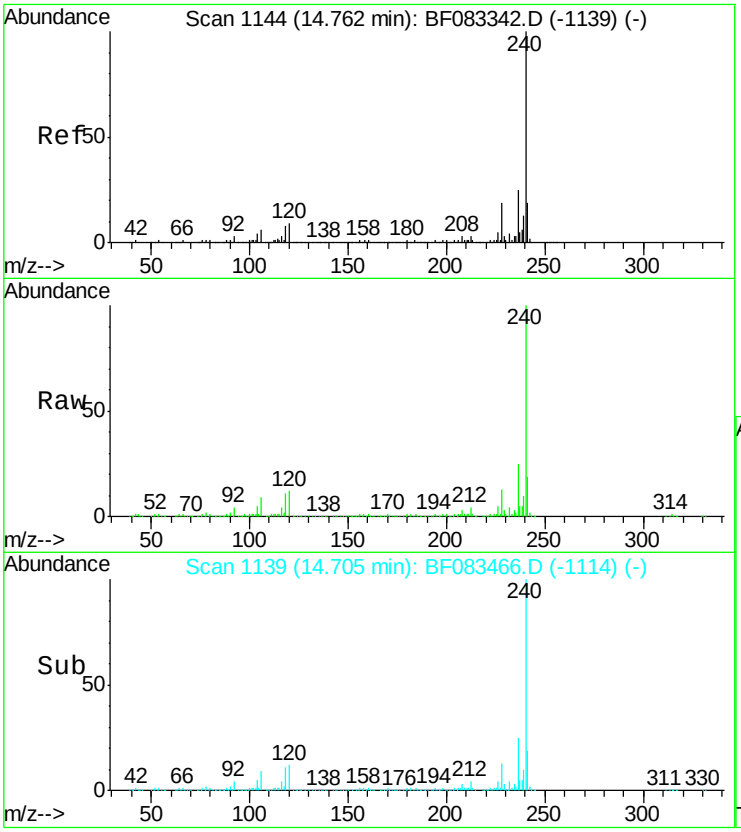




#74
Fluoranthene
Concen: 6.82 ng
RT: 12.63 min Scan# 957
Delta R.T. -0.00 min
Lab File: BF083466.D
Acq: 3 Dec 2015 18:17

Tgt Ion:202 Resp: 245391

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 9.1 | 0.0 | 34.5 |
| 203 | 17.3 | 0.0 | 38.7 |



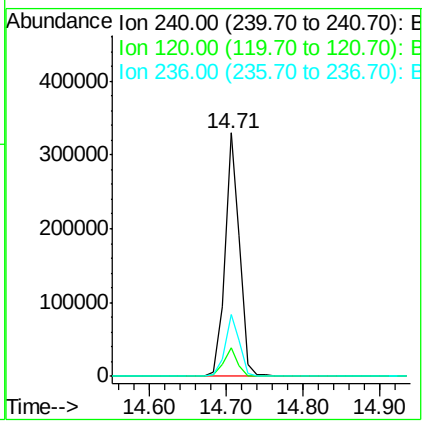


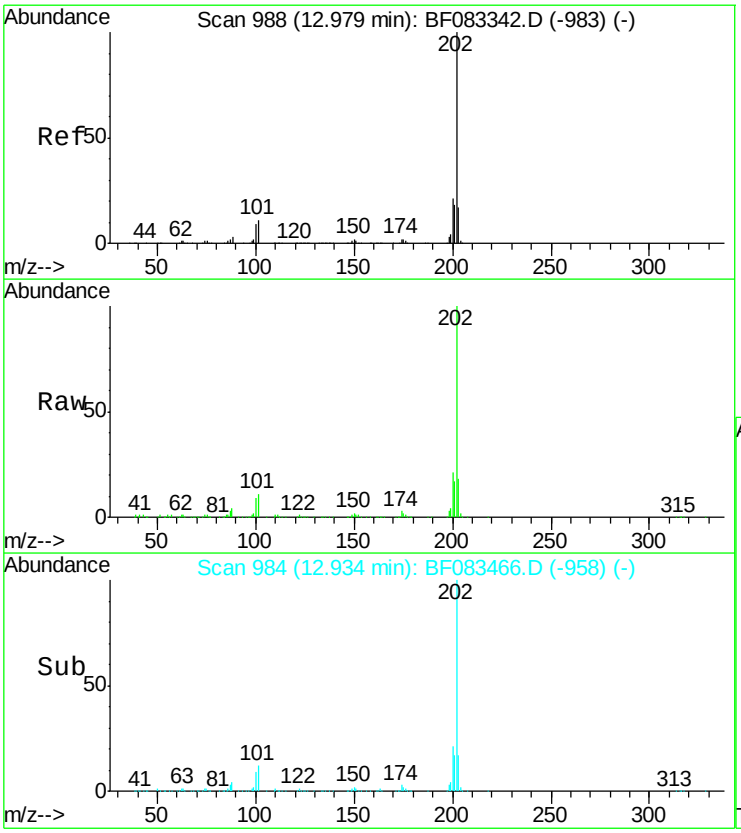

#75
Chrysene-d12
Concen: 20.00 ng
RT: 14.71 min Scan# 1139
Delta R.T. -0.01 min
Lab File: BF083466.D
Acq: 3 Dec 2015 18:17

**Instrument :**
BNA_F
**ClientSampleId :**
SB-P3WC-18(0-4)

Tgt Ion:240 Resp: 442992

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 12.0 | 6.9 | 10.3# |
| 236 | 25.3 | 19.8 | 29.6 |

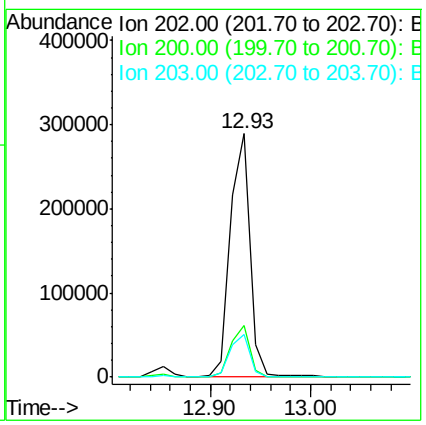


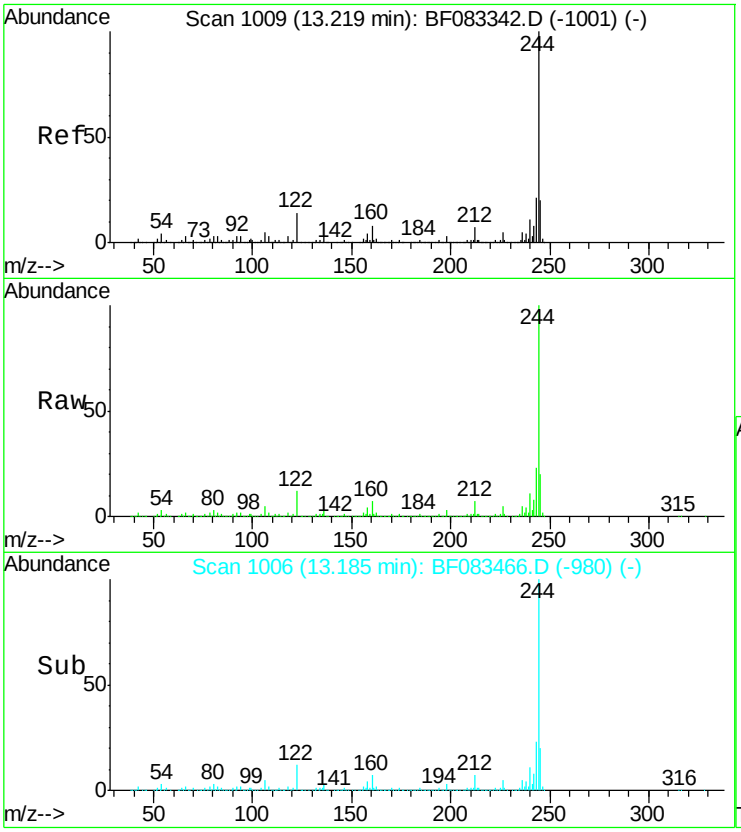




#77
Pyrene
Concen: 12.61 ng
RT: 12.93 min Scan# 984
Delta R.T. -0.00 min
Lab File: BF083466.D
Acq: 3 Dec 2015 18:17

Tgt Ion:202 Resp: 390141

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.1 | 16.9 | 25.3 |
| 203 | 17.5 | 13.9 | 20.9 |



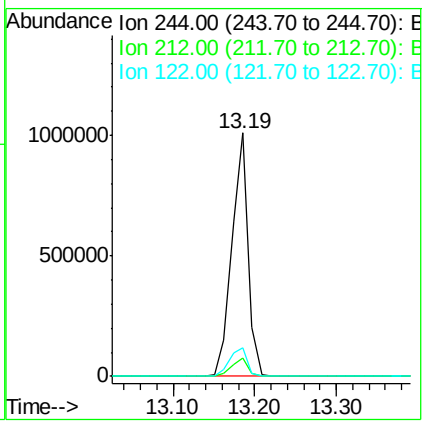


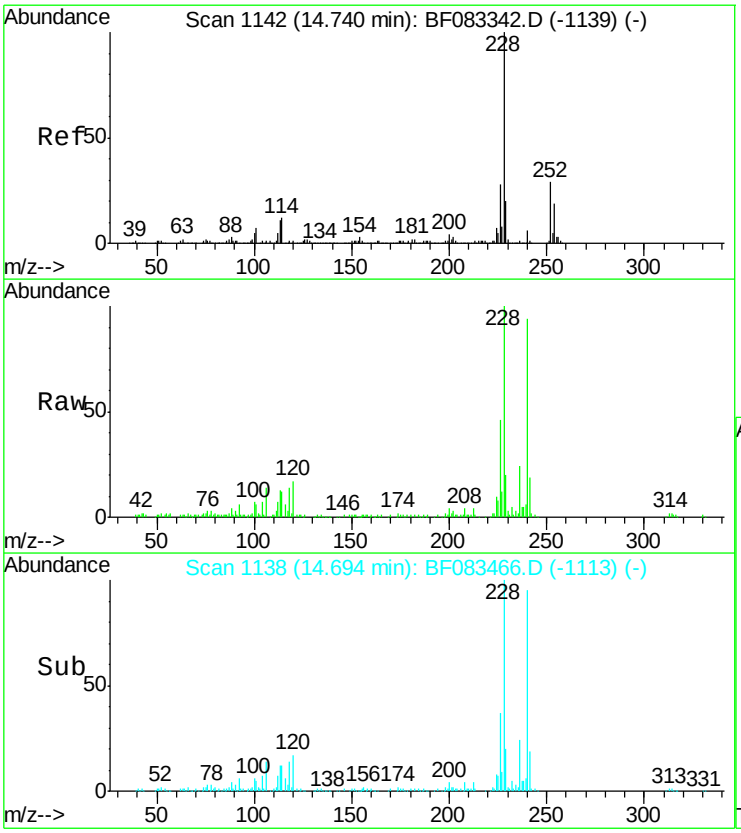

#78
Terphenyl-d14
Concen: 74.84 ng
RT: 13.19 min Scan# 1006
Delta R.T. -0.00 min
Lab File: BF083466.D
Acq: 3 Dec 2015 18:17

**Instrument :**
BNA_F
**ClientSampleId :**
SB-P3WC-18(0-4)

Tgt Ion:244 Resp: 1390106

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 7.5 | 5.8 | 8.8 |
| 122 | 11.6 | 11.0 | 16.4 |

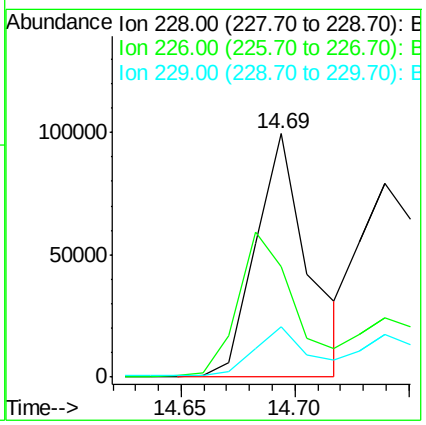


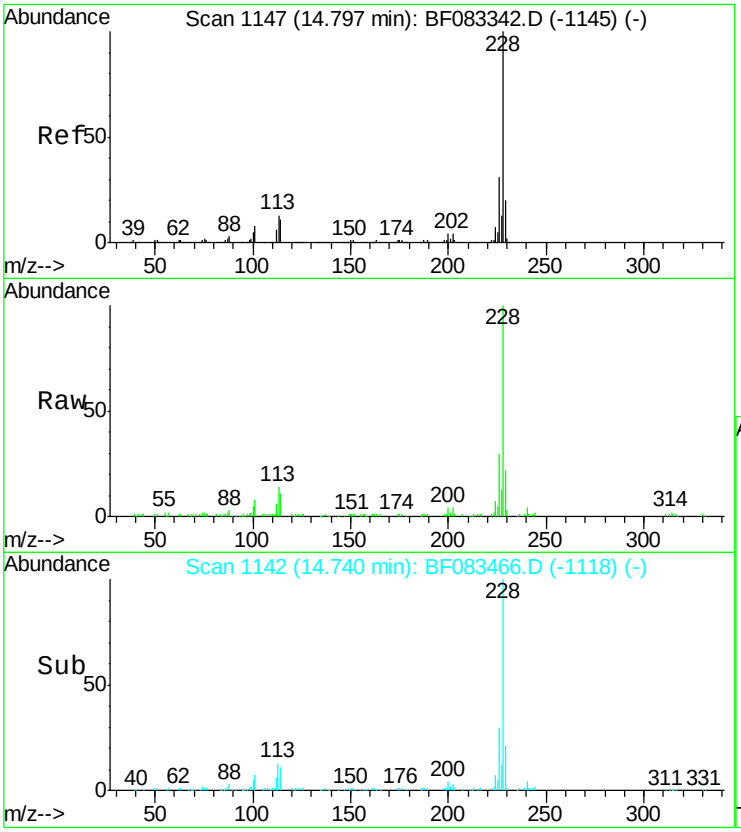




#80
Benzo(a)anthracene
Concen: 5.91 ng m
RT: 14.69 min Scan# 1138
Delta R.T. -0.01 min
Lab File: BF083466.D
Acq: 3 Dec 2015 18:17

Tgt Ion:228 Resp: 160430

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 45.5 | 22.2 | 33.4# |
| 229 | 20.4 | 16.1 | 24.1 |



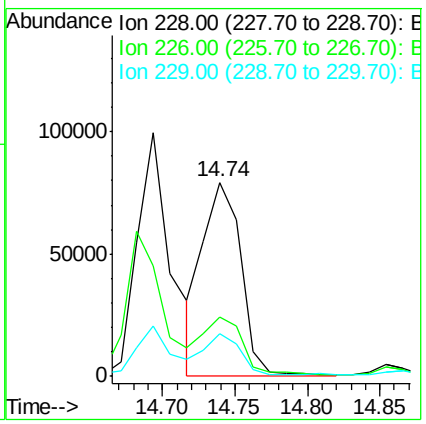


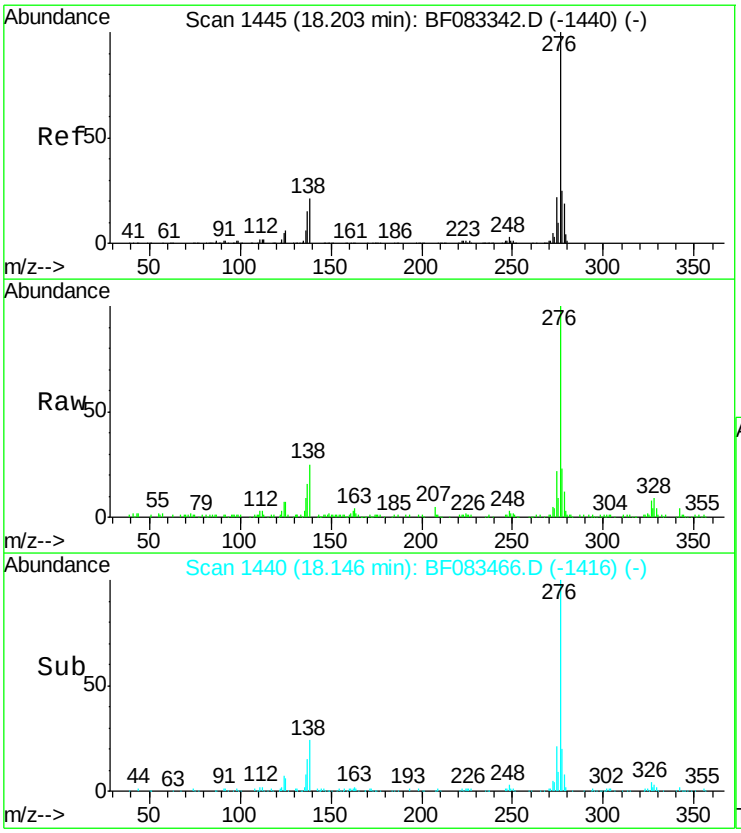

#82
Chrysene
Concen: 5.56 ng
RT: 14.74 min Scan# 1142
Delta R.T. -0.02 min
Lab File: BF083466.D
Acq: 3 Dec 2015 18:17

**Instrument :**
BNA_F
**ClientSampleId :**
SB-P3WC-18(0-4)

Tgt Ion:228 Resp: 145691

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.4 | 24.6 | 37.0 |
| 229 | 22.2 | 16.2 | 24.2 |

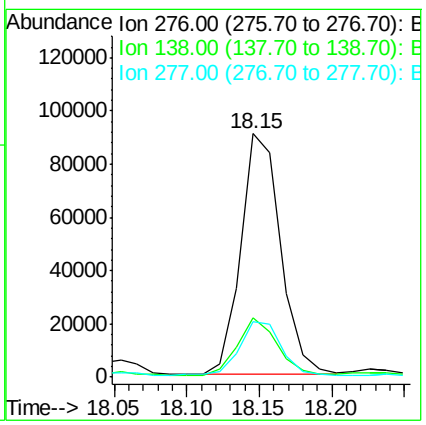


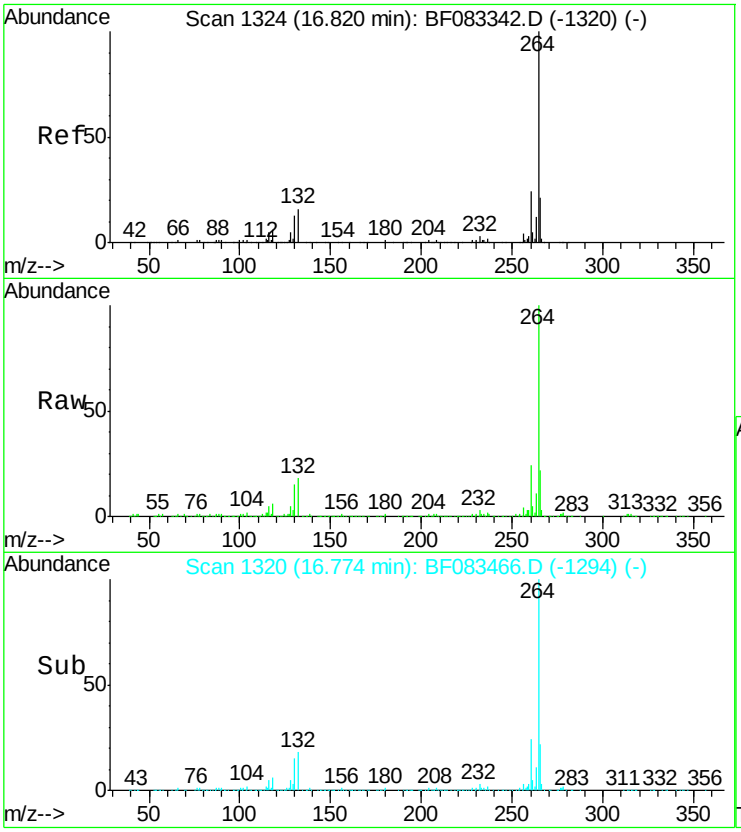




#85
Indeno(1,2,3-cd)pyrene
Concen: 9.05 ng
RT: 18.15 min Scan# 1440
Delta R.T. -0.02 min
Lab File: BF083466.D
Acq: 3 Dec 2015 18:17

Tgt Ion:276 Resp: 172827

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 23.6 | 21.2 | 31.8 |
| 277 | 23.8 | 20.0 | 30.0 |



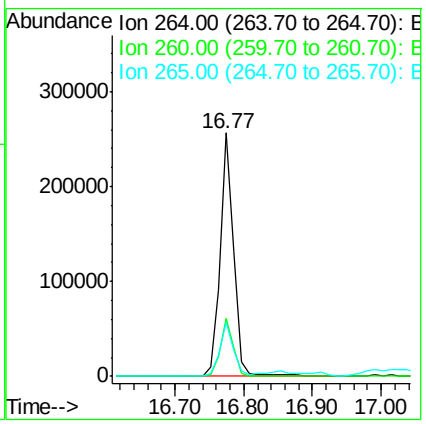


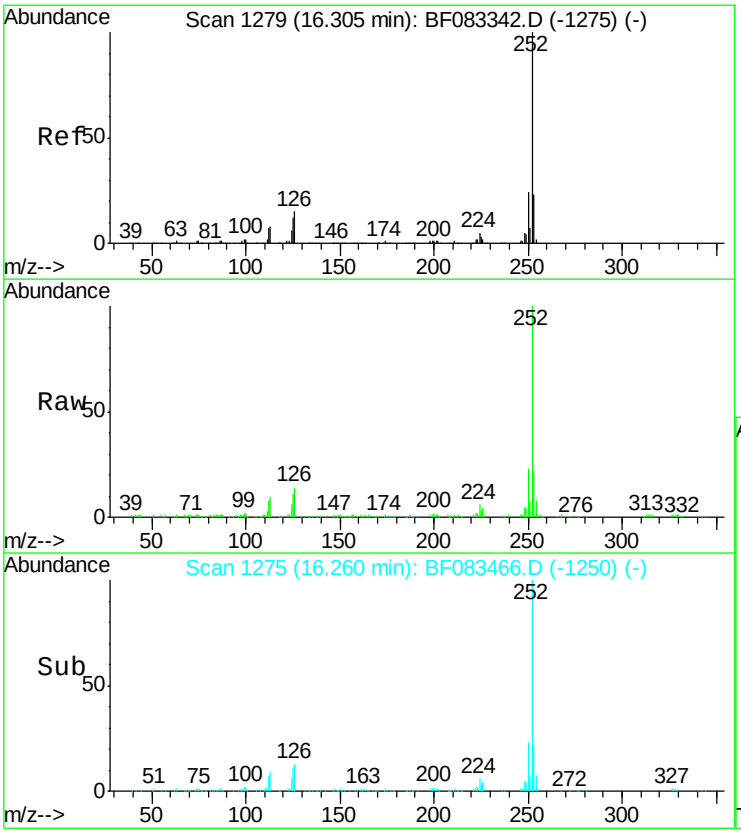

#86
Perylene-d12
Concen: 20.00 ng
RT: 16.77 min Scan# 1320
Delta R.T. -0.00 min
Lab File: BF083466.D
Acq: 3 Dec 2015 18:17

**Instrument :**
BNA_F
**ClientSampleId :**
SB-P3WC-18(0-4)

Tgt Ion:264 Resp: 357210

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 23.9 | 19.0 | 28.4 |
| 265 | 22.0 | 16.8 | 25.2 |

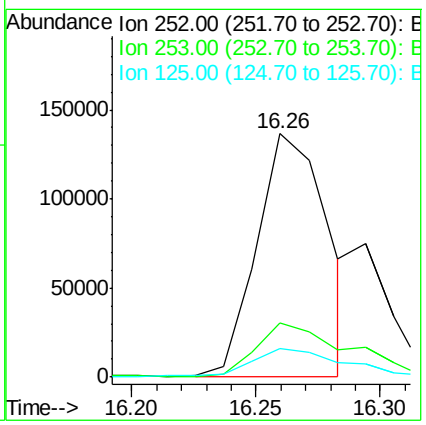


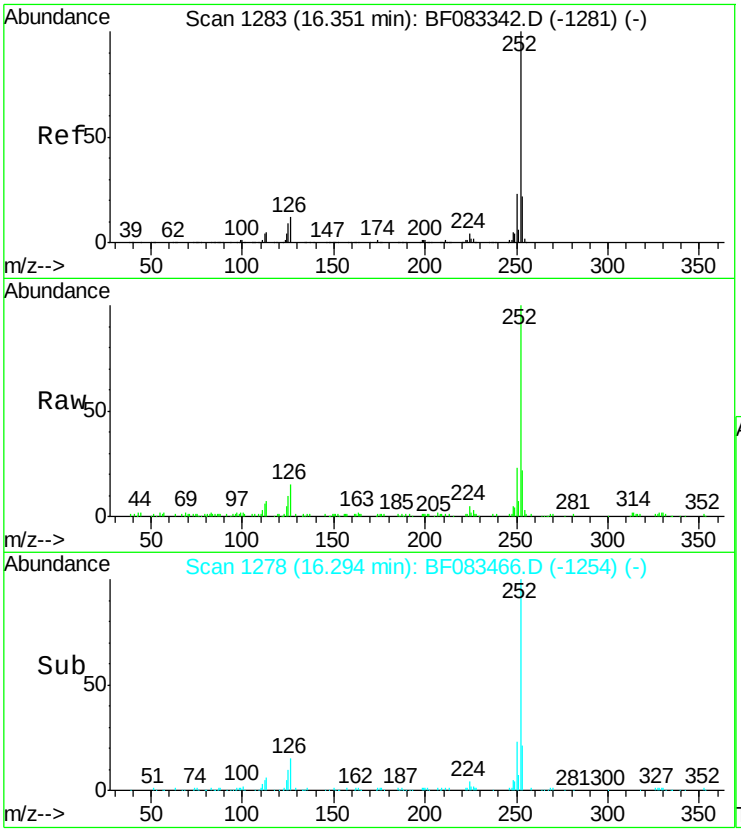




#87
Benzo(b)fluoranthene
Concen: 11.72 ng m
RT: 16.26 min Scan# 1275
Delta R.T. -0.01 min
Lab File: BF083466.D
Acq: 3 Dec 2015 18:17

Tgt Ion:252 Resp: 268681

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.0 | 18.4 | 27.6 |
| 125 | 11.5 | 9.6 | 14.4 |



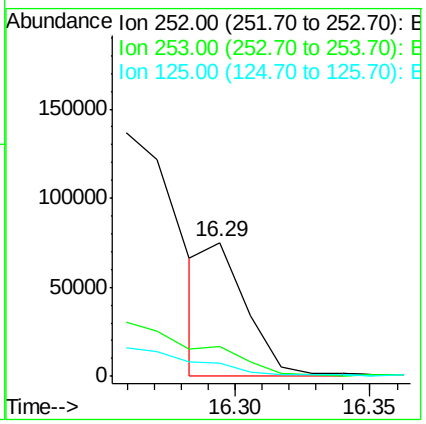


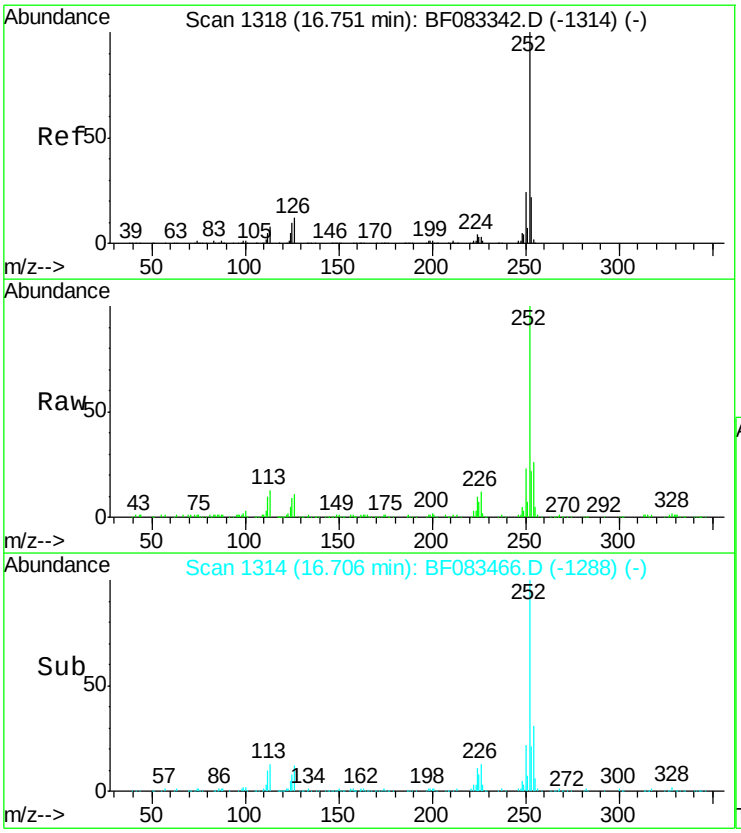

#88
Benzo(k)fluoranthene
Concen: 3.72 ng m
RT: 16.29 min Scan# 1278
Delta R.T. -0.02 min
Lab File: BF083466.D
Acq: 3 Dec 2015 18:17

**Instrument :**
BNA_F
**ClientSampleId :**
SB-P3WC-18(0-4)

Tgt Ion:252 Resp: 80459

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.9 | 17.4 | 26.0 |
| 125 | 10.3 | 7.5 | 11.3 |

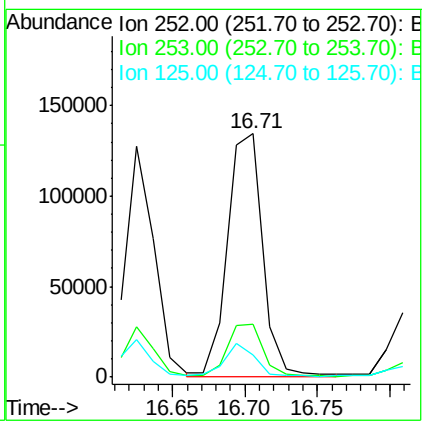


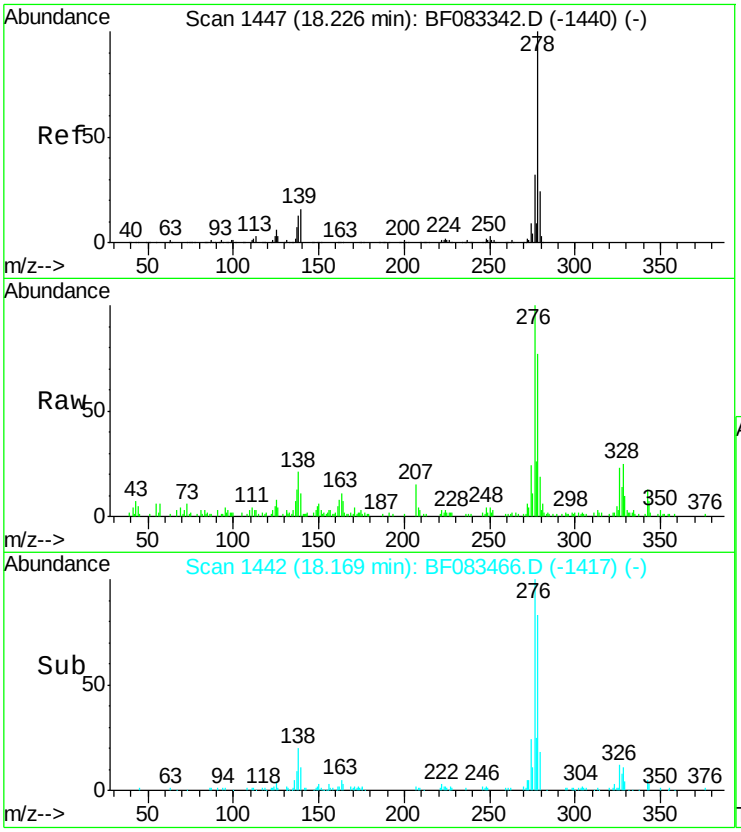




#89
Benzo(a)pyrene
Concen: 11.42 ng
RT: 16.71 min Scan# 1314
Delta R.T. -0.00 min
Lab File: BF083466.D
Acq: 3 Dec 2015 18:17

Tgt Ion:252 Resp: 224873

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.7 | 17.5 | 26.3 |
| 125 | 9.0 | 7.8 | 11.8 |



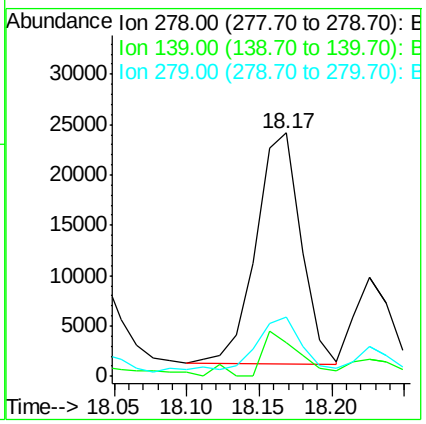


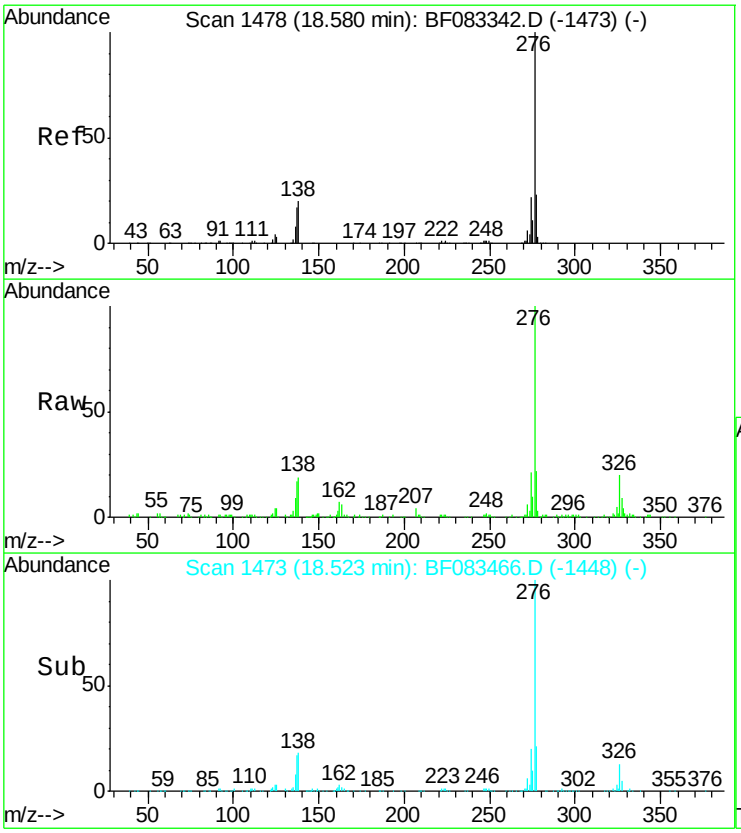

#90
Dibenzo(a,h)anthracene
Concen: 2.89 ng
RT: 18.17 min Scan# 1442
Delta R.T. -0.01 min
Lab File: BF083466.D
Acq: 3 Dec 2015 18:17

**Instrument :**
BNA_F
**ClientSampleId :**
SB-P3WC-18(0-4)

Tgt Ion:278 Resp: 49556

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 13.9 | 13.1 | 19.7 |
| 279 | 24.1 | 19.2 | 28.8 |




#91
Benzo(g,h,i)perylene
Concen: 12.09 ng
RT: 18.52 min Scan# 1473
Delta R.T. -0.01 min
Lab File: BF083466.D
Acq: 3 Dec 2015 18:17

Tgt Ion:276 Resp: 203491

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 21.6 | 18.6 | 28.0 |
| 138 | 19.2 | 16.1 | 24.1 |