Quantitation Report (Not Reviewed)

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061218\
Data File : BF106384.D
Acq On : 13 Jun 2018 10:11
Operator : JU/SJ
Sample : JJ3322-04DL 50X
Misc :
ALS Vial : 47 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :**

Quant Time: Jun 13 10:45:07 2018
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF061118.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jun 11 15:00:22 2018
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 6.97 | 152 | 112800 | 20.00 | ng | | 0.00 |
| 21) Naphthalene-d8 | 8.25 | 136 | 390633 | 20.00 | ng | | 0.00 |
| 38) Acenaphthene-d10 | 10.01 | 164 | 167523 | 20.00 | ng | | 0.00 |
| 63) Phenanthrene-d10 | 11.51 | 188 | 347305 | 20.00 | ng | | 0.00 |
| 75) Chrysene-d12 | 14.15 | 240 | 346864 | 20.00 | ng | | 0.00 |
| 86) Perylene-d12 | 15.69 | 264 | 256875 | 20.00 | ng | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 5) 2-Fluorophenol | 5.64 | 112 | 13714 | 2.06 | ng | | 0.05 |
| 7) Phenol-d6 | 6.65 | 99 | 16708 | 1.98 | ng | | 0.06 |
| 23) Nitrobenzene-d5 | 7.52 | 82 | 9297 | 1.40 | ng | | -0.01 |
| 41) 2,4,6-Tribromophenol | 10.81 | 330 | 2472 | 1.53 | ng | | 0.00 |
| 44) 2-Fluorobiphenyl | 9.32 | 172 | 17523 | -1.00 | ng | | 0.00 |
| 78) Terphenyl-d14 | 13.08 | 244 | 26480 | 1.90 | ng | | 0.00 |
| **Target Compounds** | | | | | | | Qvalue |
| 31) Naphthalene | 8.28 | 128 | 237133 | 13.429 | ng | | 99 |
| 32) Benzoic acid | 8.28 | 122 | 419 | 7.377 | ng | # | 1 |
| 33) 4-Chloroaniline | 8.28 | 127 | 31586 | 4.036 | ng | # | 37 |
| 48) Acenaphthylene | 9.88 | 152 | 221700 | 13.949 | ng | | 98 |
| 50) 2,6-Dinitrotoluene | 10.01 | 165 | 23647 | 9.672 | ng | # | 24 |
| 51) Acenaphthene | 10.05 | 154 | 51667 | 5.034 | ng | | 98 |
| 54) Dibenzofuran | 10.22 | 168 | 43995 | 3.183 | ng | | 98 |
| 55) 4-Nitrophenol | 10.22 | 139 | 16924 | 7.609 | ng | # | 10 |
| 57) Fluorene | 10.56 | 166 | 74315 | 6.786 | ng | | 100 |
| 70) Phenanthrene | 11.53 | 178 | 423222 | 24.882 | ng | | 100 |
| 71) Anthracene | 11.58 | 178 | 179673 | 10.544 | ng | | 100 |
| 74) Fluoranthene | 12.72 | 202 | 756700 | 41.717 | ng | | 97 |
| 77) Pyrene | 12.95 | 202 | 818902 | 37.710 | ng | | 99 |
| 80) Benzo(a)anthracene | 14.18 | 228 | 438959 | 21.266 | ng | | 95 |
| 82) Chrysene | 14.18 | 228 | 438959 | 23.292 | ng | | 98 |
| 85) Indeno(1,2,3-cd)pyrene | 17.26 | 276 | 220620 | 14.668 | ng | # | 89 |
| 87) Benzo(b)fluoranthene | 15.24 | 252 | 707383 | 45.556 | ng | | 97 |
| 88) Benzo(k)fluoranthene | 15.24 | 252 | 707383 | 45.999 | ng | | 98 |
| 89) Benzo(a)pyrene | 15.63 | 252 | 401586 | 28.753 | ng | | 95 |
| 90) Dibenzo(a,h)anthracene | 17.27 | 278 | 56137 | 4.821 | ng | | 93 |
| 91) Benzo(g,h,i)perylene | 17.74 | 276 | 224431 | 19.833 | ng | | 94 |

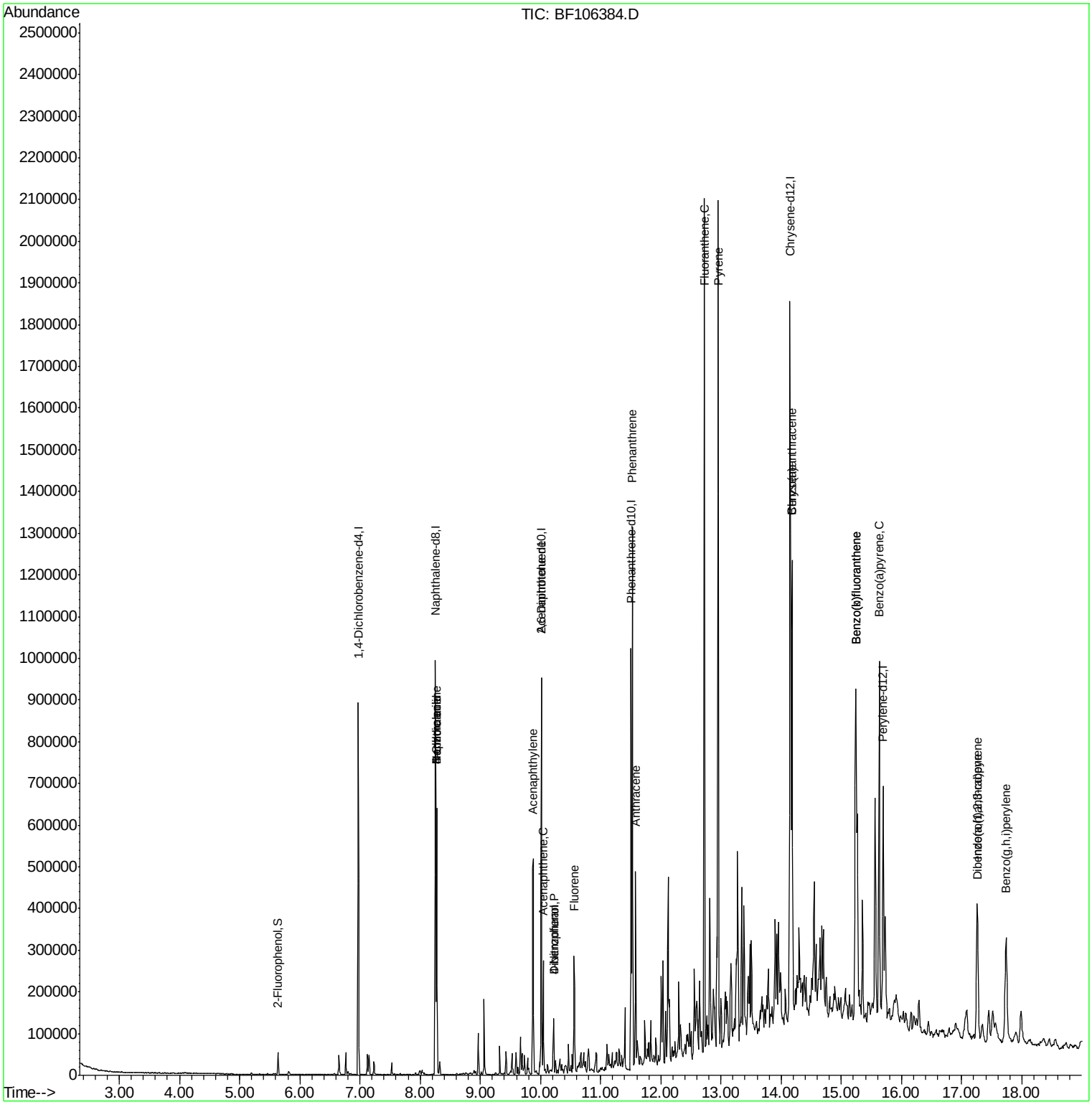
(#) = qualifier out of range (m) = manual integration (+) = signals summed

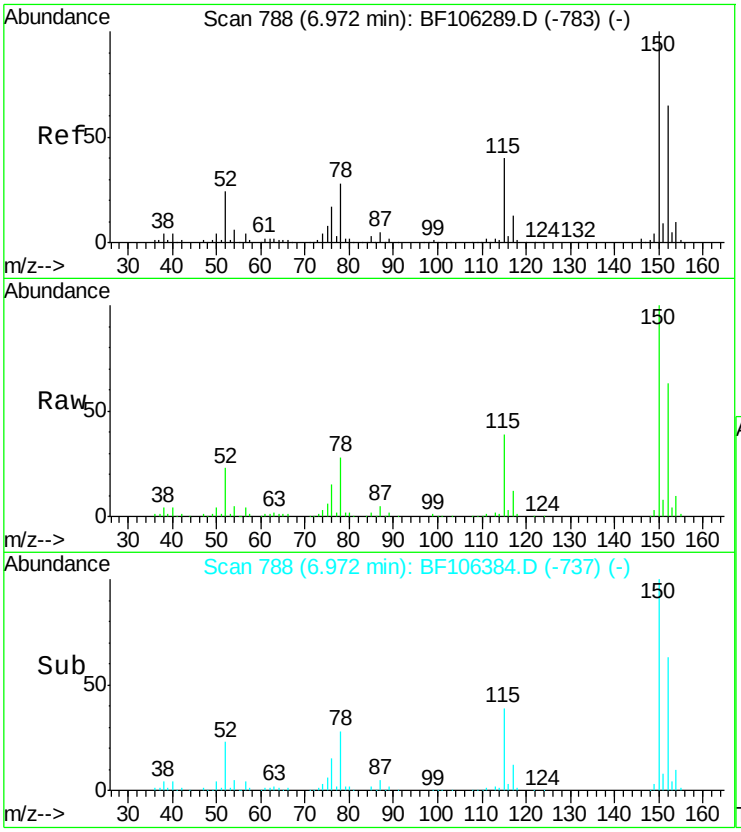
Quantitation Report (Not Reviewed)

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061218\
Data File : BF106384.D
Acq On : 13 Jun 2018 10:11
Operator : JU/SJ
Sample : JJ3322-04DL 50X
Misc :
ALS Vial : 47 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**

Quant Time: Jun 13 10:45:07 2018
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF061118.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jun 11 15:00:22 2018
Response via : Initial Calibration



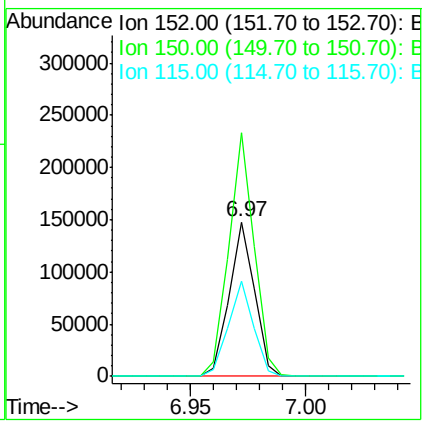


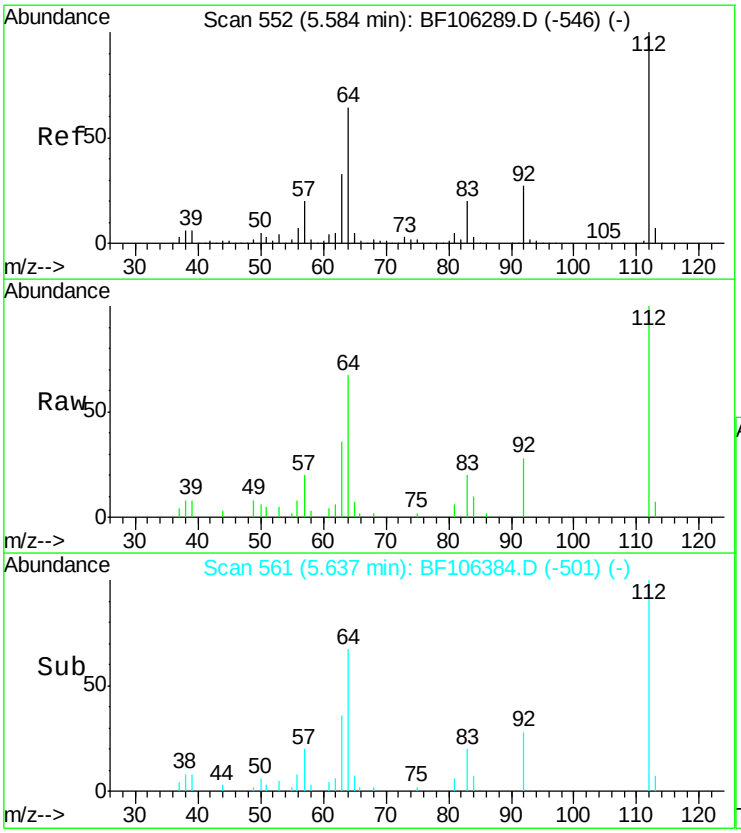

#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.97 min Scan# 788
Delta R.T. 0.00 min
Lab File: BF106384.D
Acq: 13 Jun 2018 10:11

**Instrument :**
BNA_F
**ClientSampleId :**

Tgt Ion:152 Resp: 112800

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 157.8 | 124.6 | 186.8 |
| 115 | 61.5 | 50.1 | 75.1 |

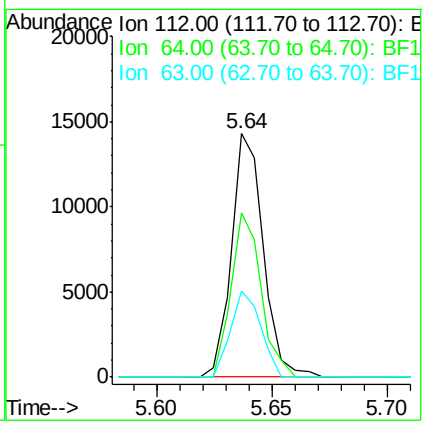


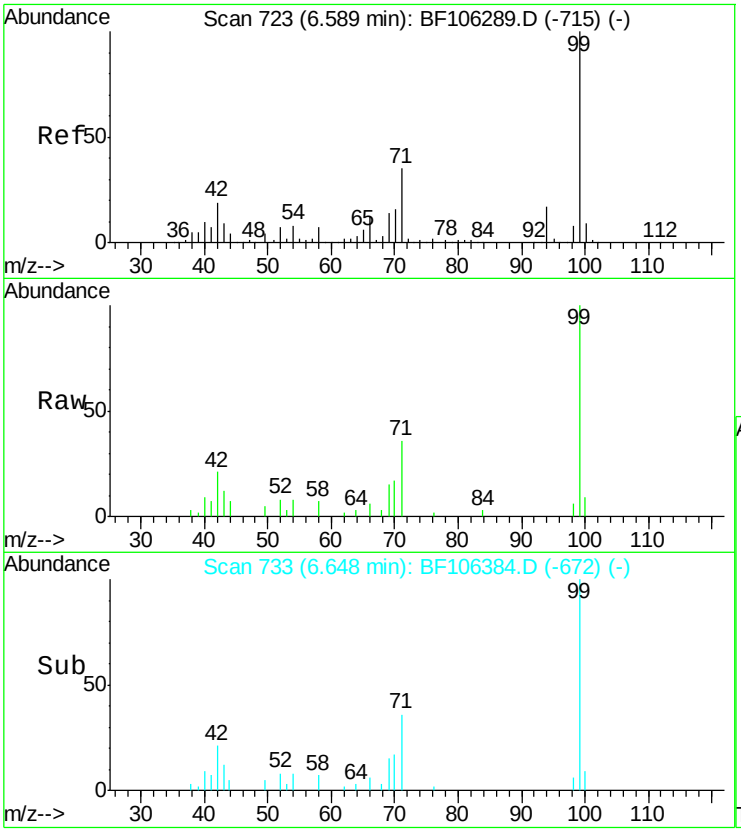




#5
2-Fluorophenol
Concen: 2.058 ng
RT: 5.64 min Scan# 561
Delta R.T. 0.05 min
Lab File: BF106384.D
Acq: 13 Jun 2018 10:11

Tgt Ion:112 Resp: 13714

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 67.2 | 47.9 | 71.9 |
| 63 | 35.6 | 23.7 | 35.5# |



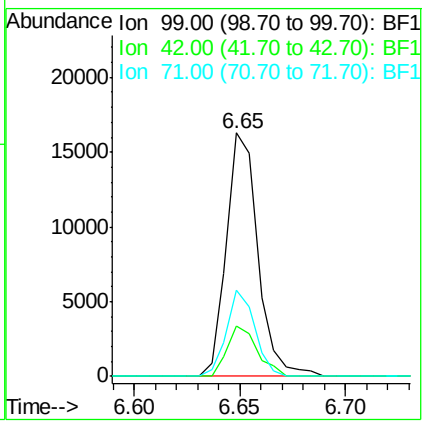


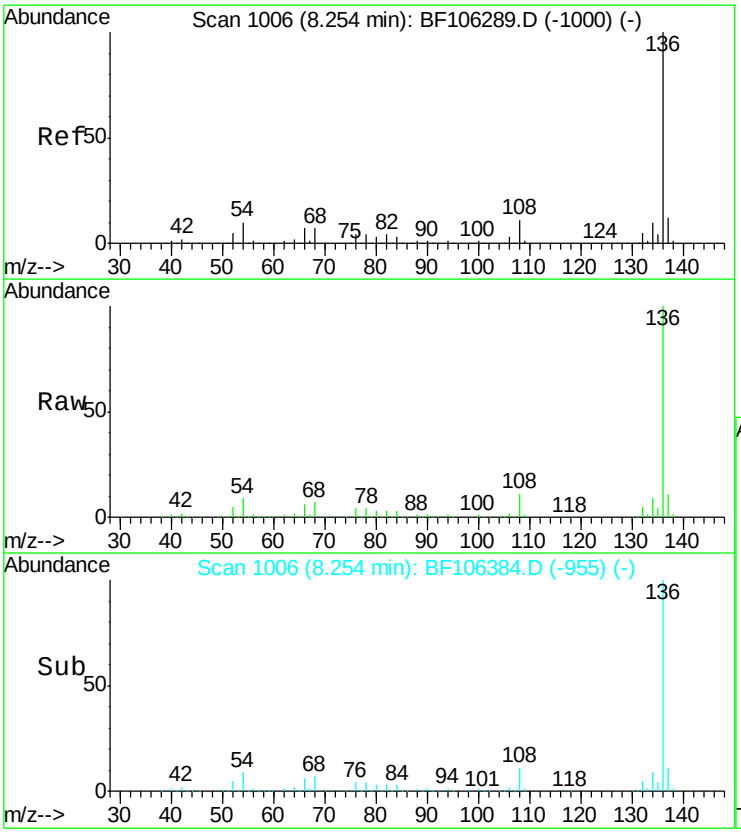

#7
Phenol-d6
Concen: 1.984 ng
RT: 6.65 min Scan# 733
Delta R.T. 0.06 min
Lab File: BF106384.D
Acq: 13 Jun 2018 10:11

**Instrument :**
BNA_F
**ClientSampleId :**

Tgt Ion: 99 Resp: 16708

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 20.8 | 14.5 | 21.7 |
| 71 | 35.6 | 25.4 | 38.0 |

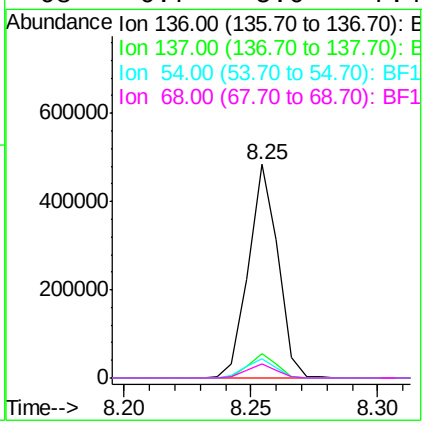


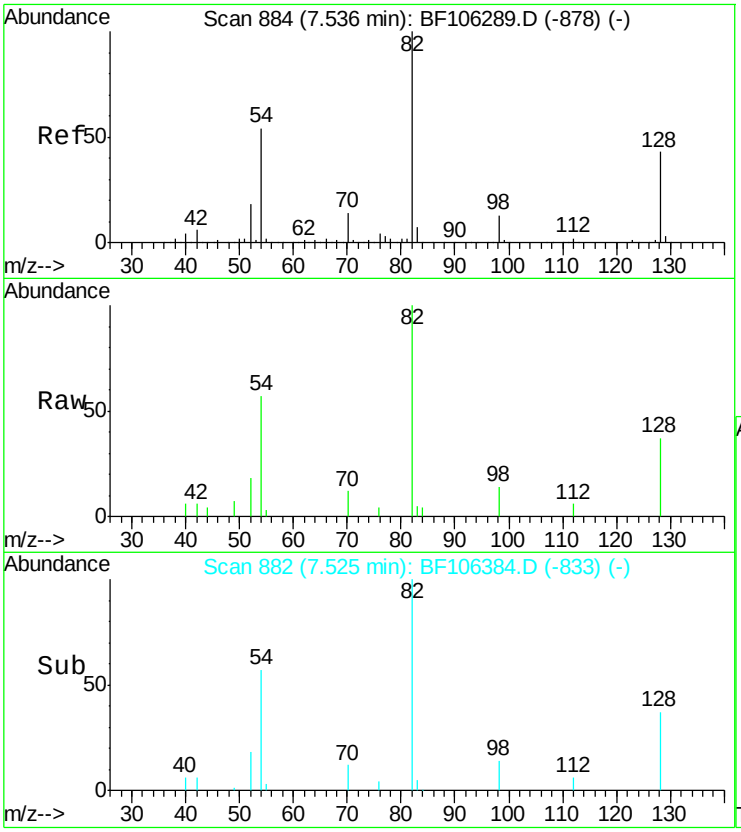




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.25 min Scan# 1006
Delta R.T. 0.00 min
Lab File: BF106384.D
Acq: 13 Jun 2018 10:11

Tgt Ion:136 Resp: 390633

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.2 | 8.9 | 13.3 |
| 54 | 8.9 | 6.6 | 9.8 |
| 68 | 6.7 | 5.0 | 7.4 |



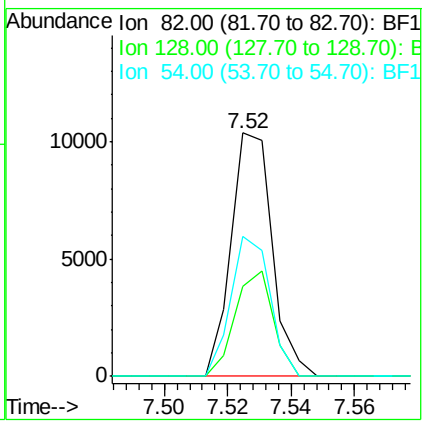


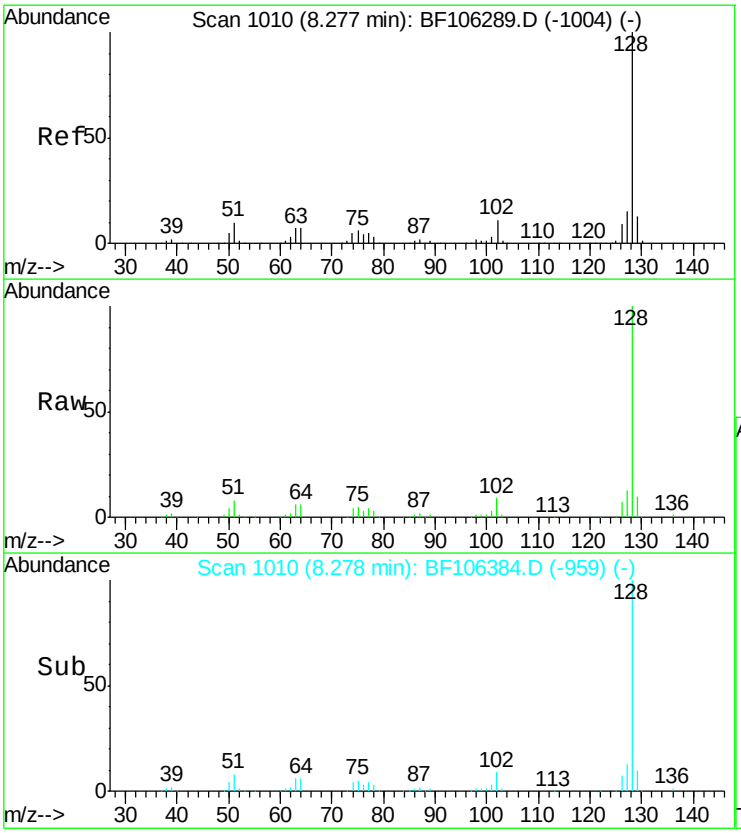

#23
Nitrobenzene-d5
Concen: 1.400 ng
RT: 7.52 min Scan# 882
Delta R.T. -0.01 min
Lab File: BF106384.D
Acq: 13 Jun 2018 10:11

**Instrument :**
BNA_F
**ClientSampleId :**

Tgt Ion: 82 Resp: 9297

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 36.8 | 36.1 | 54.1 |
| 54 | 57.3 | 41.4 | 62.2 |

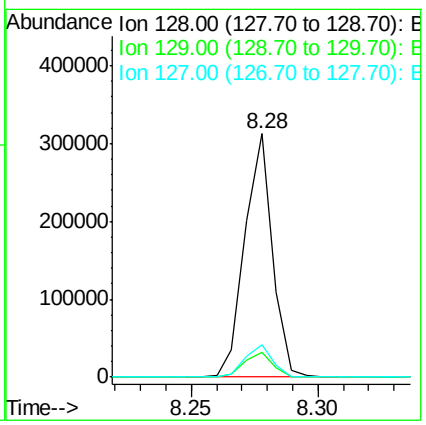


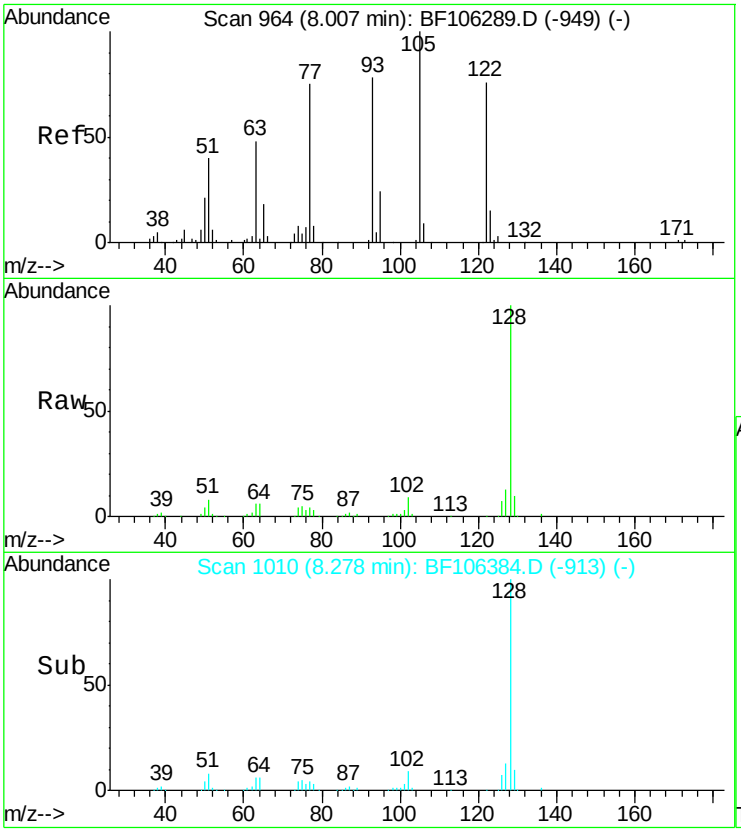




#31
Naphthalene
Concen: 13.429 ng
RT: 8.28 min Scan# 1010
Delta R.T. 0.00 min
Lab File: BF106384.D
Acq: 13 Jun 2018 10:11

Tgt Ion:128 Resp: 237133

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 10.3 | 8.8 | 13.2 |
| 127 | 13.2 | 10.9 | 16.3 |



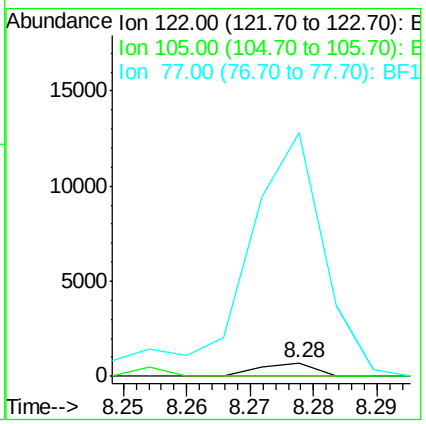


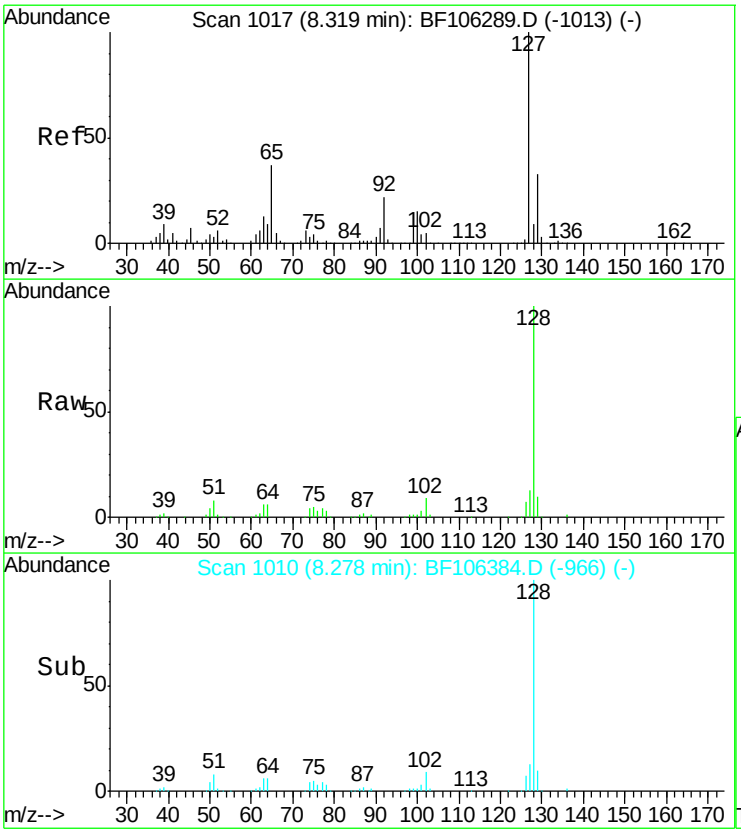

#32
Benzoic acid
Concen: 7.377 ng
RT: 8.28 min Scan# 1010
Delta R.T. 0.27 min
Lab File: BF106384.D
Acq: 13 Jun 2018 10:11

**Instrument :**
BNA_F
**ClientSampleId :**

Tgt Ion:122 Resp: 419

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 105 | 0.0 | 101.1 | 141.1# |
| 77 | 1803.2 | 70.7 | 110.7# |

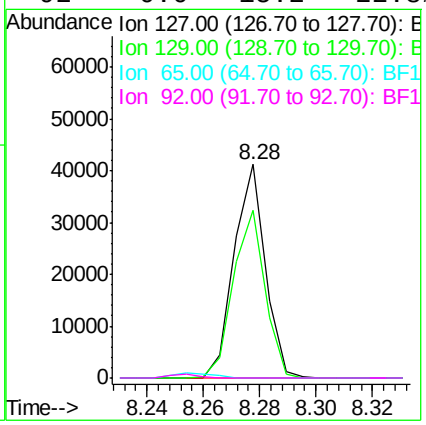


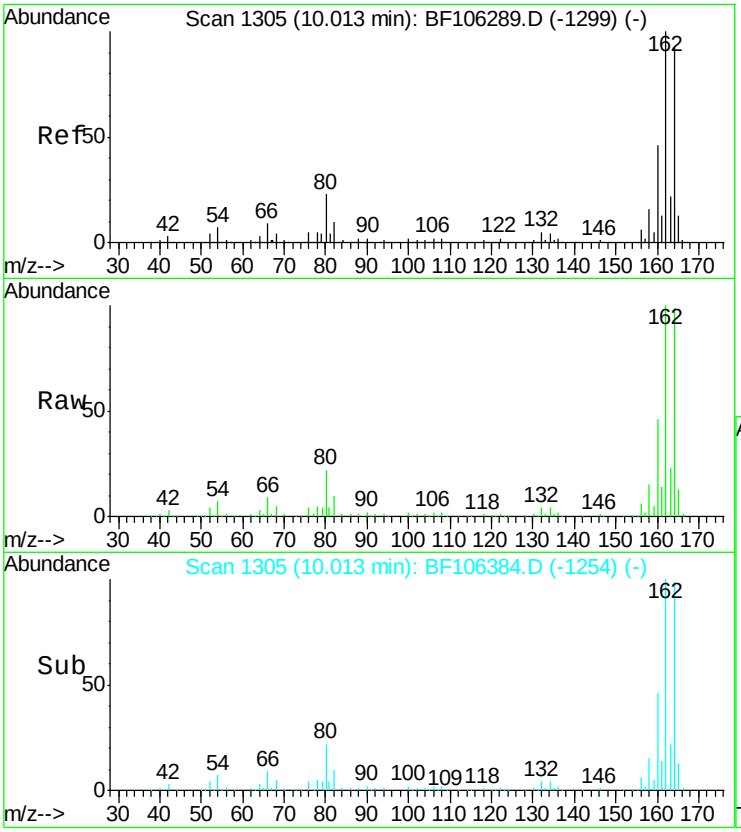




#33
4-Chloroaniline
Concen: 4.036 ng
RT: 8.28 min Scan# 1010
Delta R.T. -0.04 min
Lab File: BF106384.D
Acq: 13 Jun 2018 10:11

Tgt Ion:127 Resp: 31586

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 127 | 100 | | |
| 129 | 78.4 | 25.9 | 38.9# |
| 65 | 0.0 | 25.0 | 37.4# |
| 92 | 0.0 | 15.2 | 22.8# |



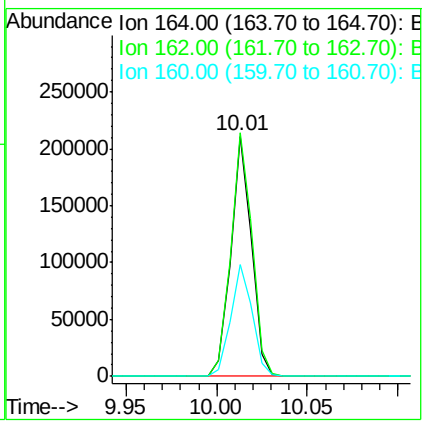


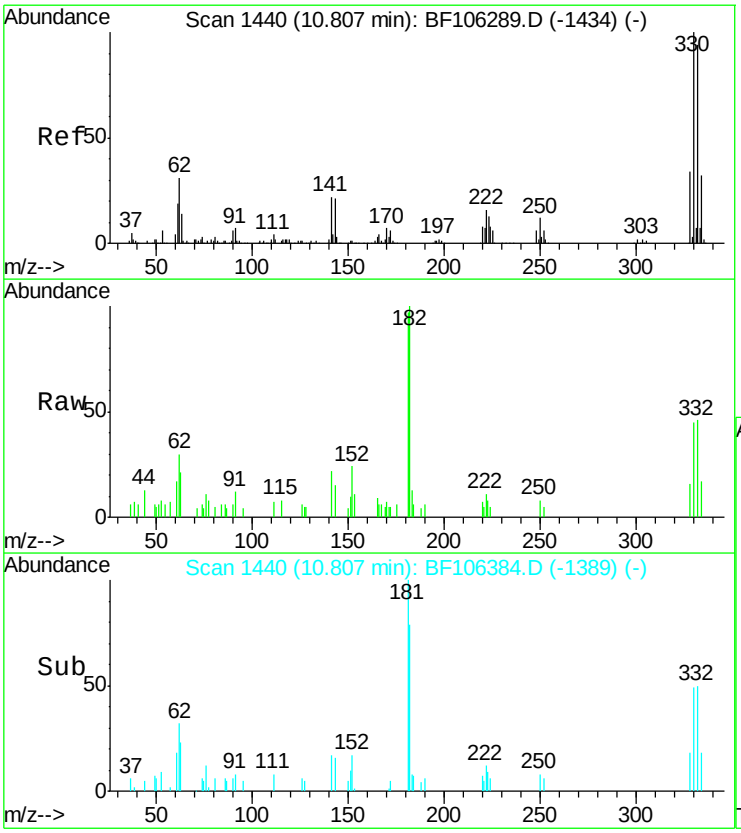

#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.01 min Scan# 1305
Delta R.T. 0.00 min
Lab File: BF106384.D
Acq: 13 Jun 2018 10:11

**Instrument :**
BNA_F
**ClientSampleId :**

Tgt Ion:164 Resp: 167523

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 101.3 | 86.1 | 129.1 |
| 160 | 46.7 | 38.3 | 57.5 |

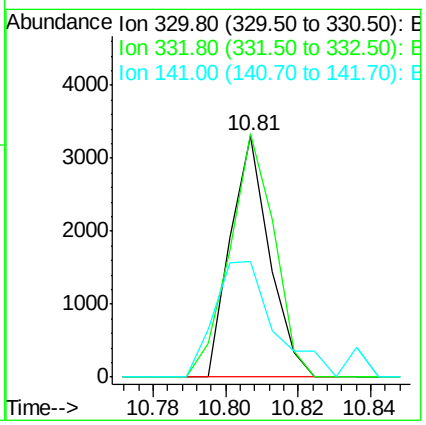


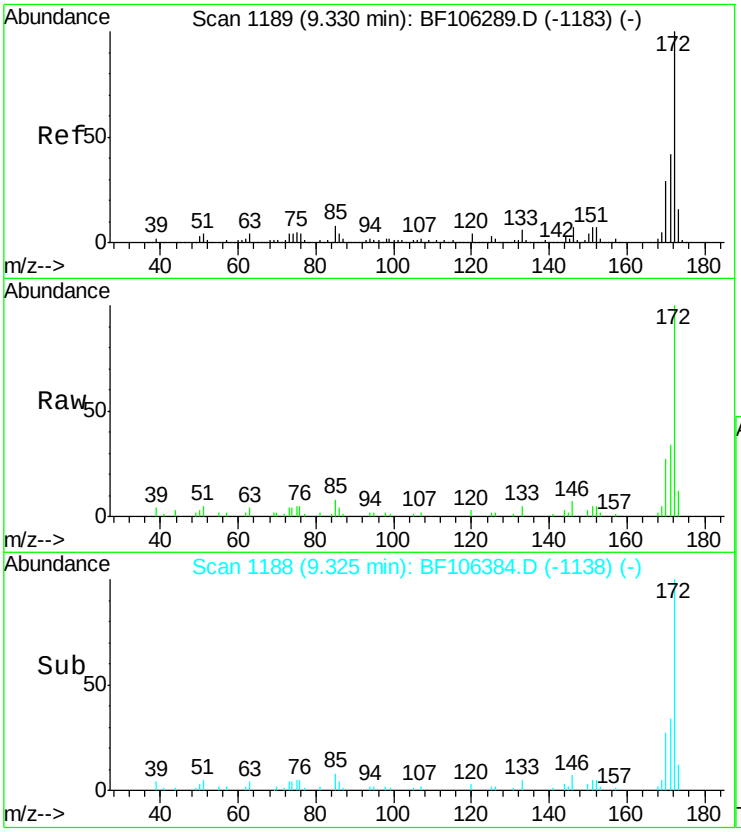




#41
2,4,6-Tribromophenol
Concen: 1.534 ng
RT: 10.81 min Scan# 1440
Delta R.T. 0.00 min
Lab File: BF106384.D
Acq: 13 Jun 2018 10:11

Tgt Ion:330 Resp: 2472

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 114.9 | 77.0 | 115.6 |
| 141 | 73.9 | 29.9 | 44.9# |



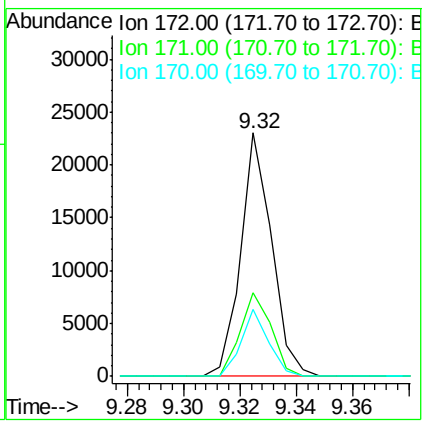


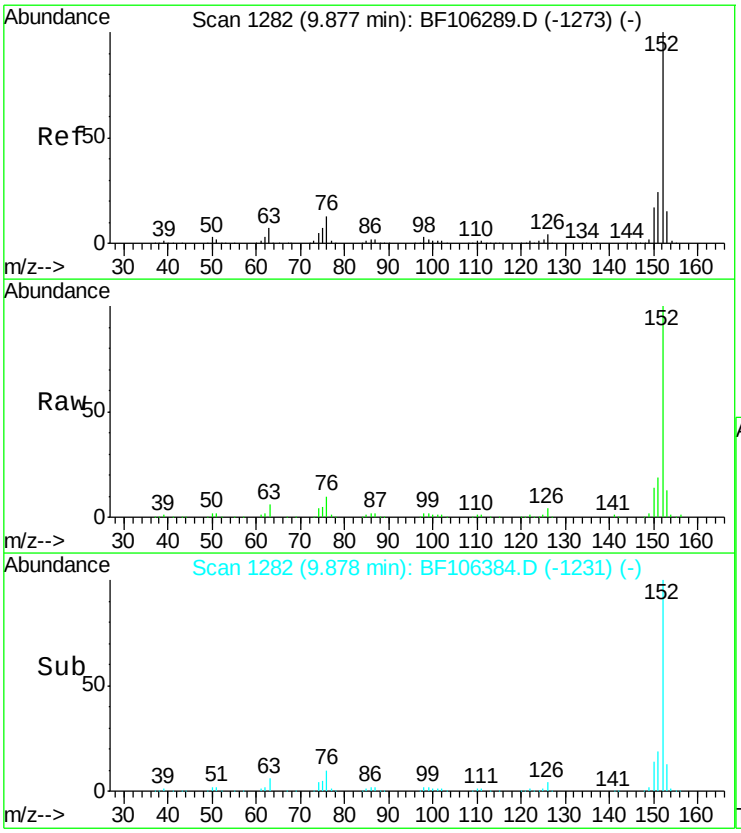

#44
2-Fluorobiphenyl
Concen: -1.000 ng
RT: 9.32 min Scan# 1188
Delta R.T. -0.01 min
Lab File: BF106384.D
Acq: 13 Jun 2018 10:11

**Instrument :**
BNA_F
**ClientSampleId :**

Tgt Ion:172 Resp: 17523

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 34.3 | 29.7 | 44.5 |
| 170 | 27.4 | 19.6 | 29.4 |

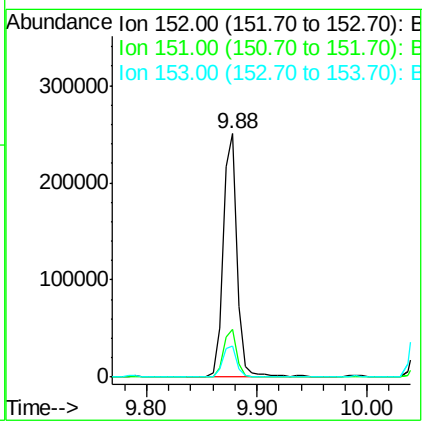


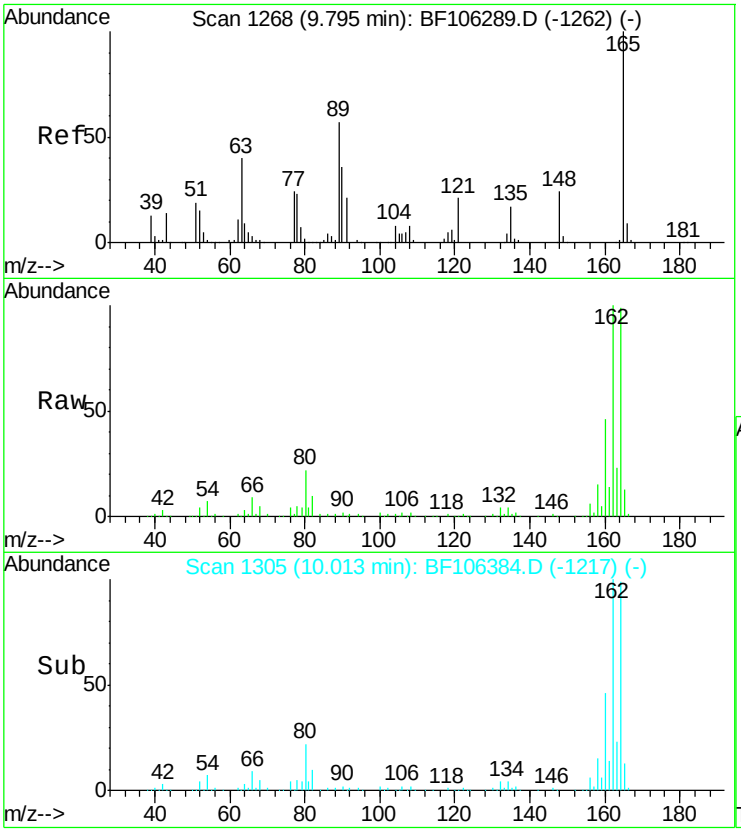




#48
Acenaphthylene
Concen: 13.949 ng
RT: 9.88 min Scan# 1282
Delta R.T. 0.00 min
Lab File: BF106384.D
Acq: 13 Jun 2018 10:11

Tgt Ion:152 Resp: 221700

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 19.4 | 16.3 | 24.5 |
| 153 | 12.8 | 10.7 | 16.1 |



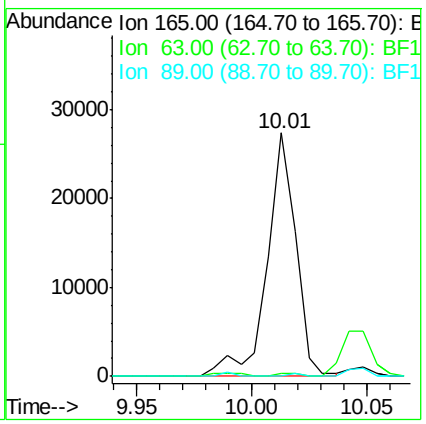


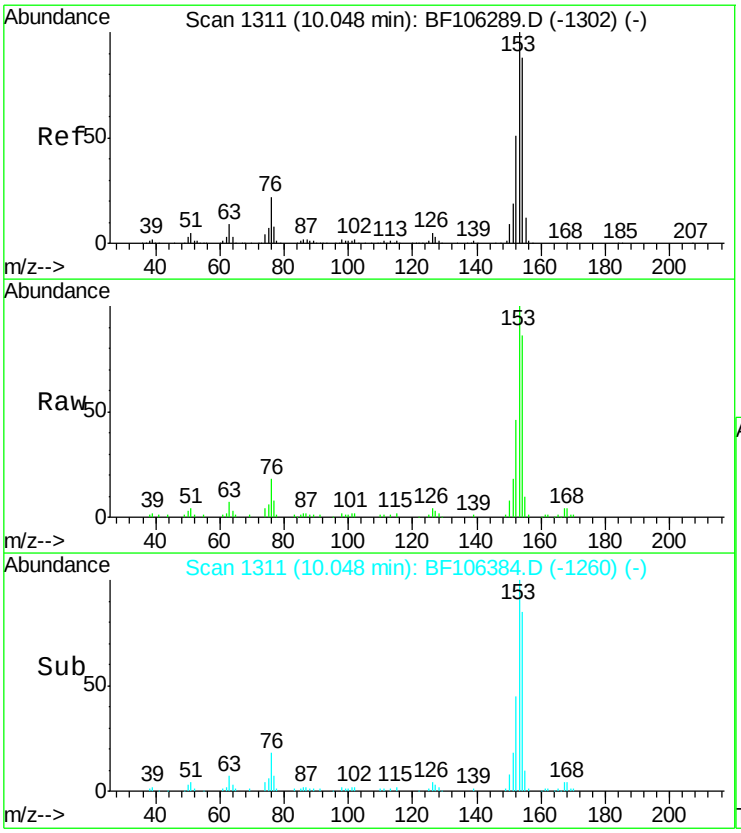

#50
2,6-Dinitrotoluene
Concen: 9.672 ng
RT: 10.01 min Scan# 1305
Delta R.T. 0.22 min
Lab File: BF106384.D
Acq: 13 Jun 2018 10:11

**Instrument :**
BNA_F
**ClientSampleId :**

Tgt Ion:165 Resp: 23647

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 63 | 1.2 | 44.7 | 67.1# |
| 89 | 0.0 | 44.0 | 66.0# |

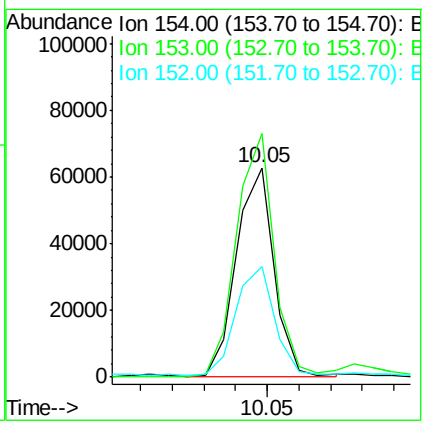


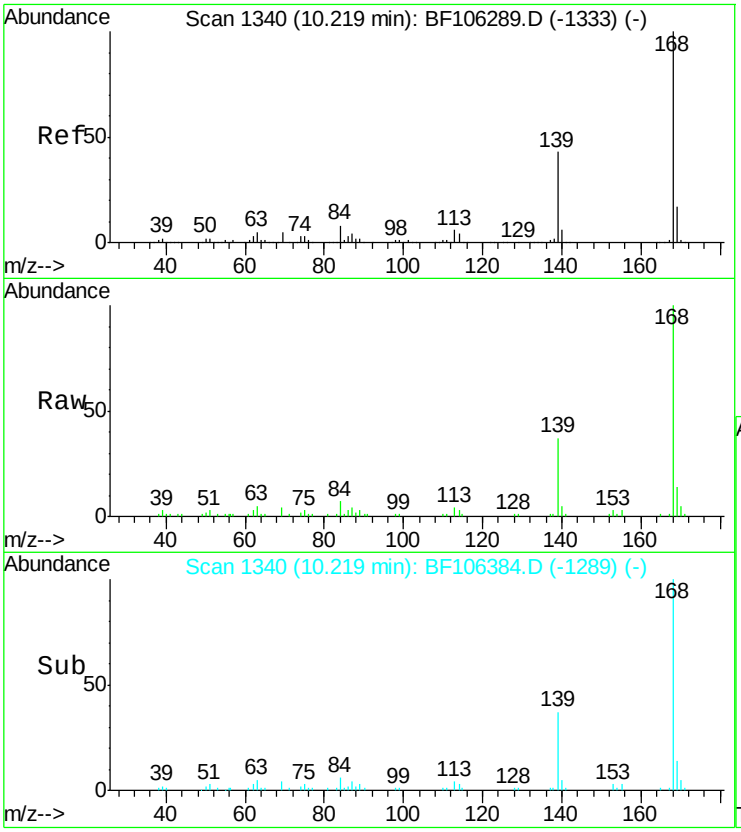




#51
Acenaphthene
Concen: 5.034 ng
RT: 10.05 min Scan# 1311
Delta R.T. 0.00 min
Lab File: BF106384.D
Acq: 13 Jun 2018 10:11

Tgt Ion:154 Resp: 51667

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 116.3 | 91.2 | 136.8 |
| 152 | 53.0 | 43.8 | 65.8 |



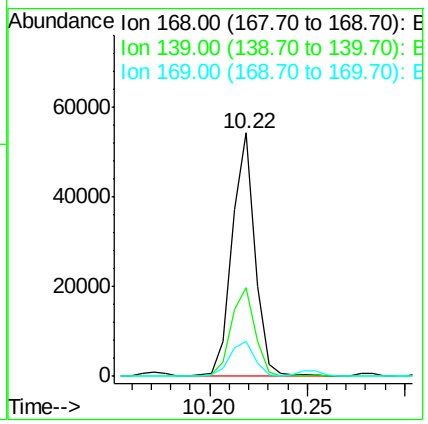


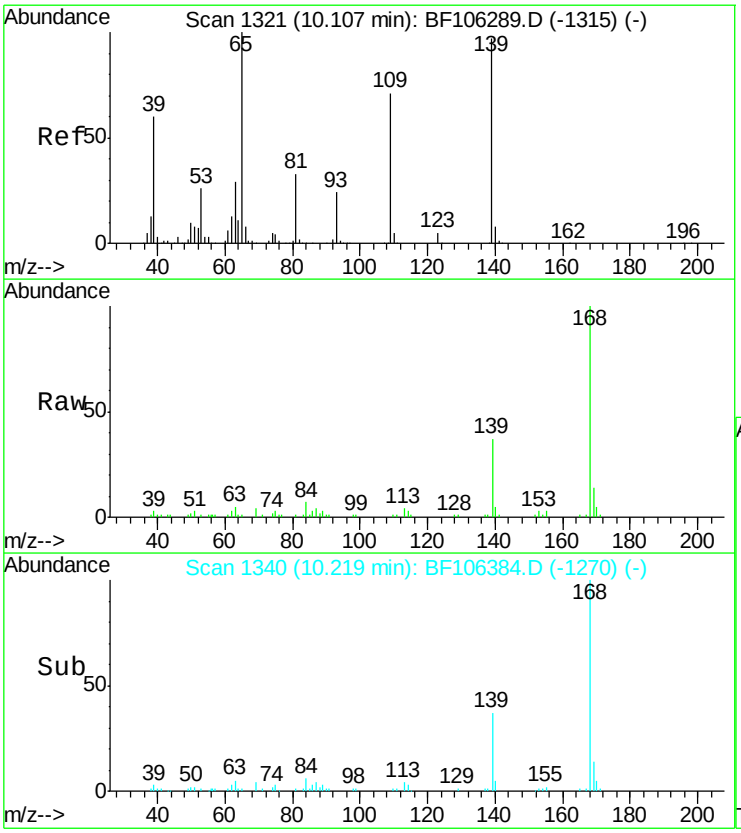

#54
Dibenzofuran
Concen: 3.183 ng
RT: 10.22 min Scan# 1340
Delta R.T. 0.00 min
Lab File: BF106384.D
Acq: 13 Jun 2018 10:11

**Instrument :**
BNA_F
**ClientSampleId :**

Tgt Ion:168 Resp: 43995

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 36.6 | 30.1 | 45.1 |
| 169 | 14.4 | 10.9 | 16.3 |

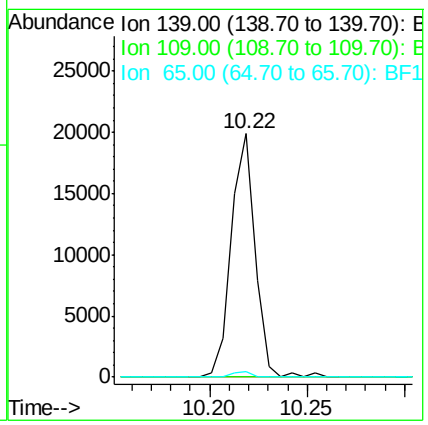


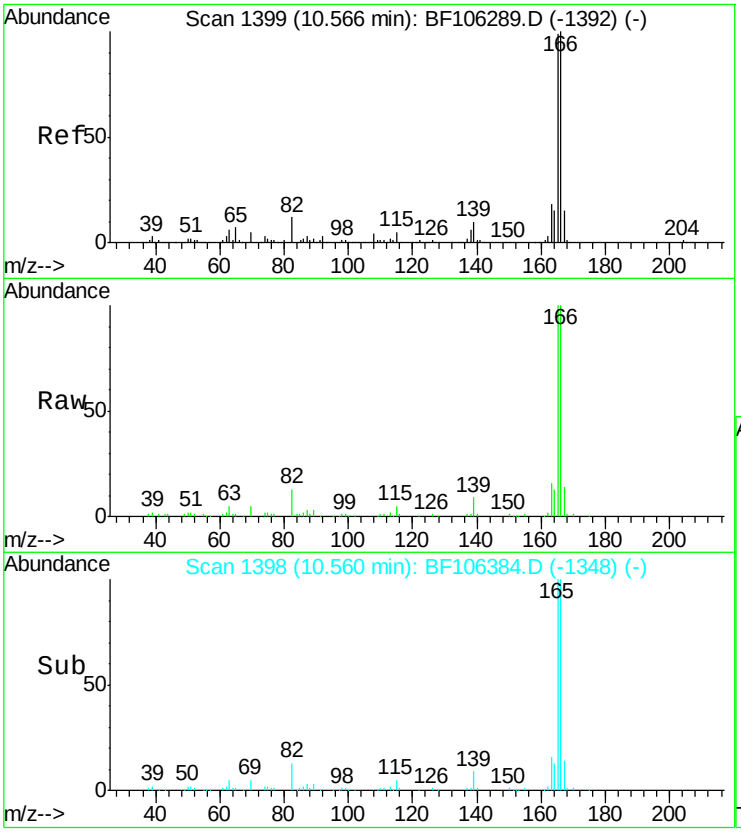




#55
4-Nitrophenol
Concen: 7.609 ng
RT: 10.22 min Scan# 1340
Delta R.T. 0.11 min
Lab File: BF106384.D
Acq: 13 Jun 2018 10:11

Tgt Ion:139 Resp: 16924

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 139 | 100 | | |
| 109 | 0.0 | 48.4 | 88.4# |
| 65 | 2.3 | 72.6 | 112.6# |



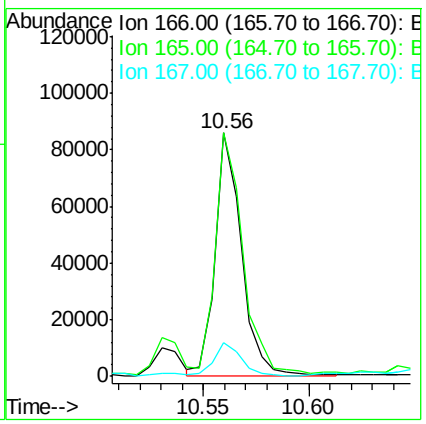


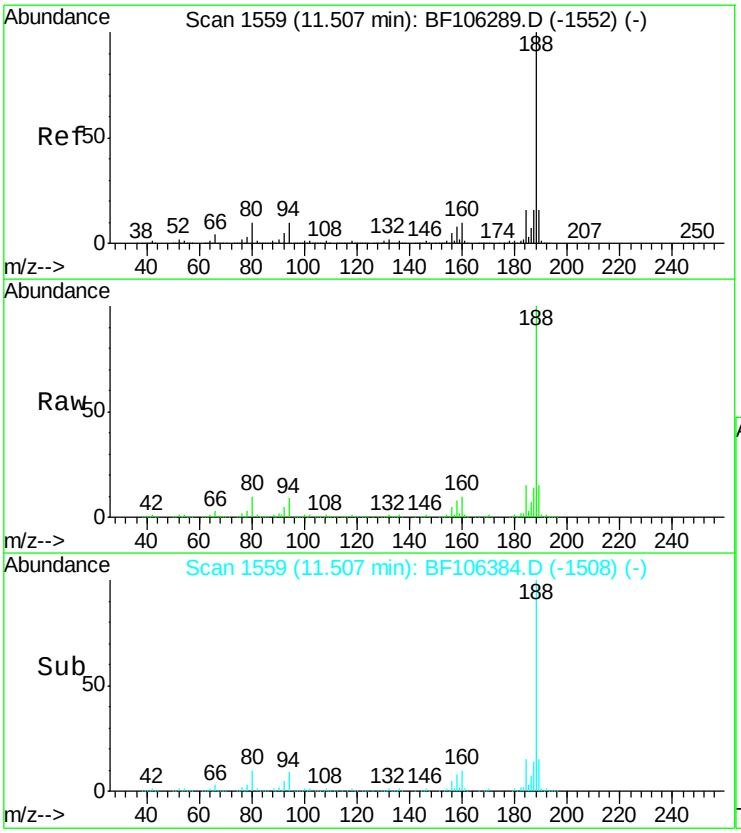

#57
Fluorene
Concen: 6.786 ng
RT: 10.56 min Scan# 1398
Delta R.T. -0.01 min
Lab File: BF106384.D
Acq: 13 Jun 2018 10:11

**Instrument :**
BNA_F
**ClientSampleId :**

Tgt Ion:166 Resp: 74315

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 100.1 | 79.8 | 119.8 |
| 167 | 13.9 | 10.6 | 16.0 |

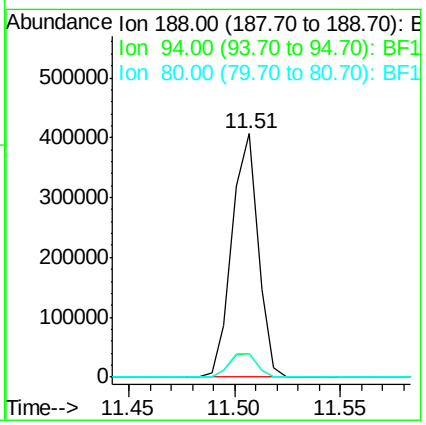


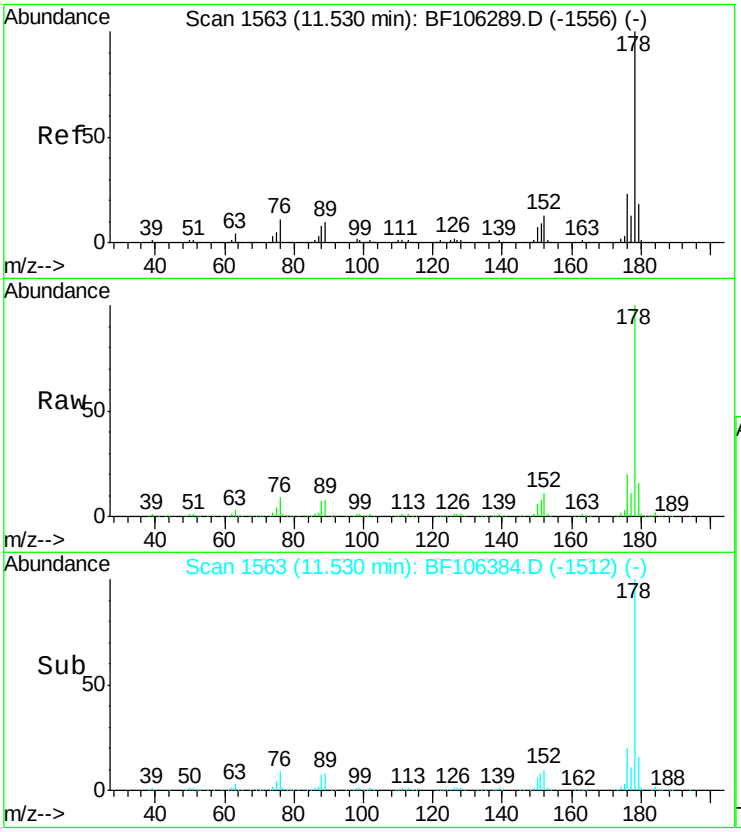




#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.51 min Scan# 1559
Delta R.T. 0.00 min
Lab File: BF106384.D
Acq: 13 Jun 2018 10:11

Tgt Ion:188 Resp: 347305

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 9.5 | 8.5 | 12.7 |
| 80 | 9.9 | 9.2 | 13.8 |



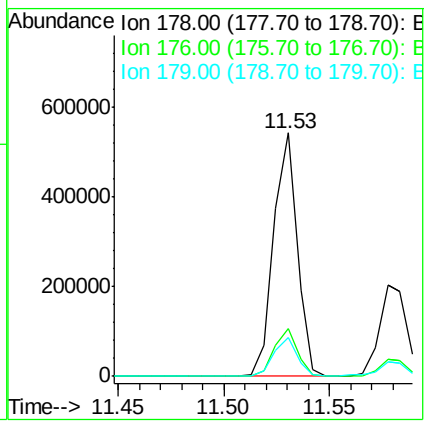


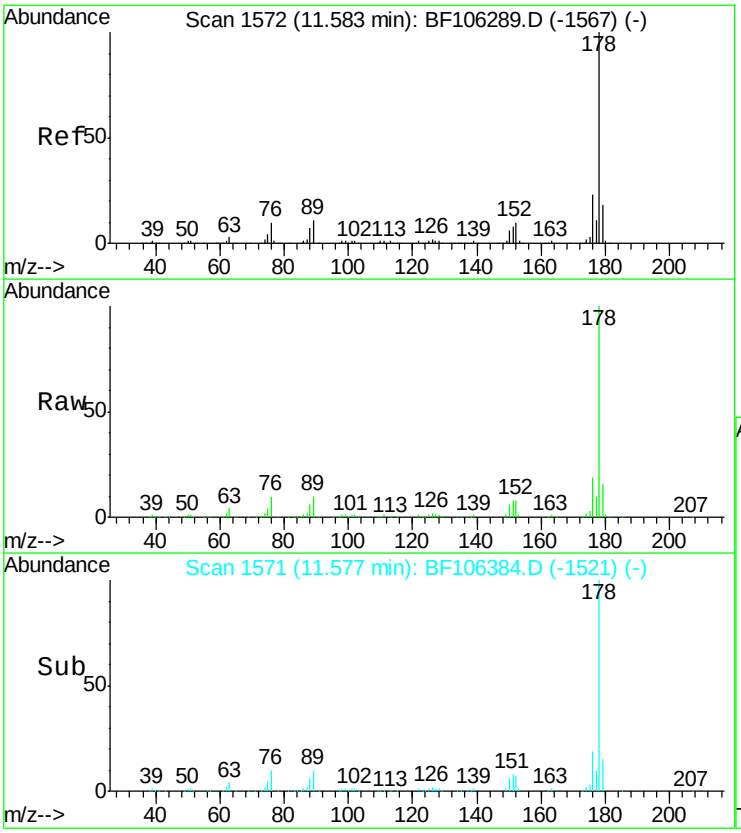

#70
Phenanthrene
Concen: 24.882 ng
RT: 11.53 min Scan# 1563
Delta R.T. 0.00 min
Lab File: BF106384.D
Acq: 13 Jun 2018 10:11

**Instrument :**
BNA_F
**ClientSampleId :**

Tgt Ion:178 Resp: 423222

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.7 | 15.8 | 23.8 |
| 179 | 16.0 | 13.0 | 19.6 |

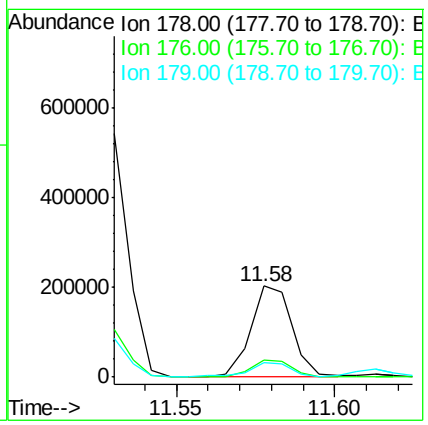


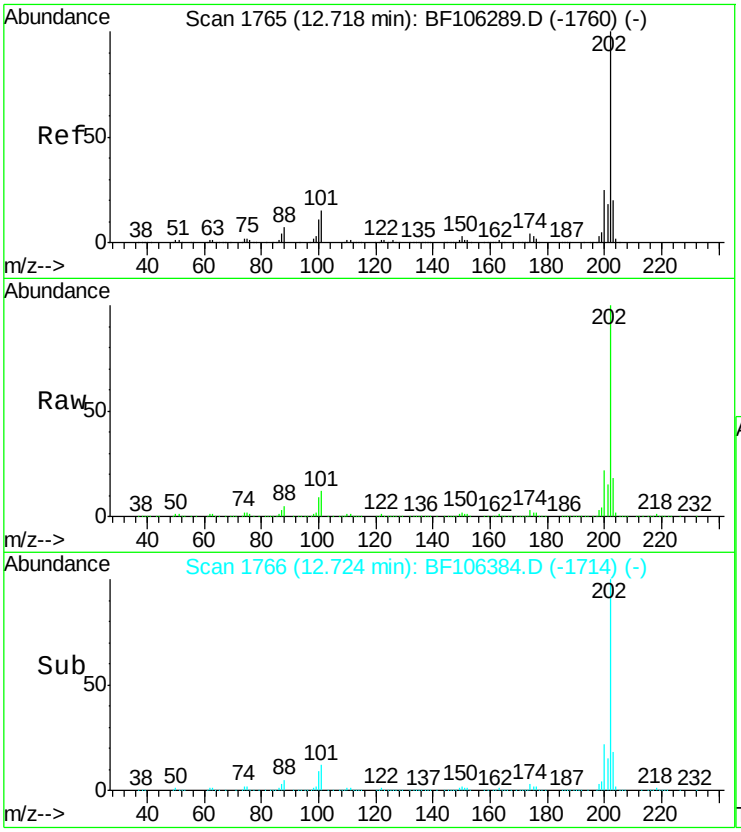




#71
Anthracene
Concen: 10.544 ng
RT: 11.58 min Scan# 1571
Delta R.T. -0.01 min
Lab File: BF106384.D
Acq: 13 Jun 2018 10:11

Tgt Ion:178 Resp: 179673

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.2 | 15.4 | 23.2 |
| 179 | 15.8 | 12.6 | 19.0 |



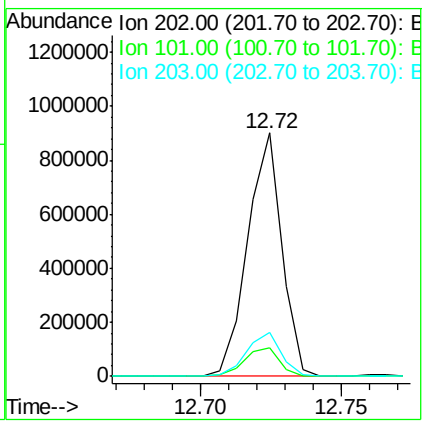


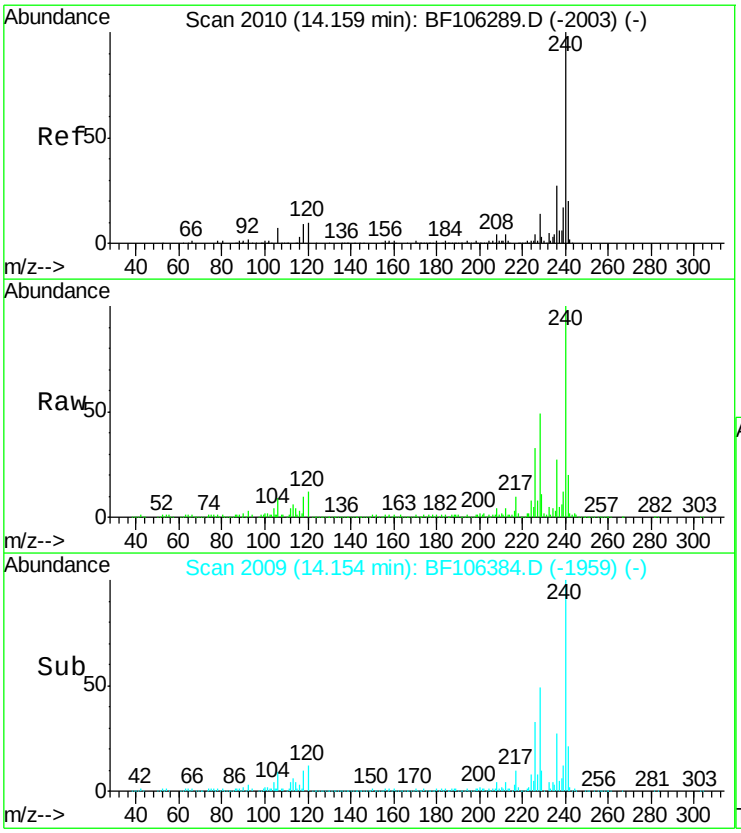

#74
Fluoranthene
Concen: 41.717 ng
RT: 12.72 min Scan# 1766
Delta R.T. 0.01 min
Lab File: BF106384.D
Acq: 13 Jun 2018 10:11

**Instrument :**
BNA_F
**ClientSampleId :**

Tgt Ion:202 Resp: 756700

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 11.7 | 0.0 | 34.1 |
| 203 | 17.8 | 0.0 | 38.1 |

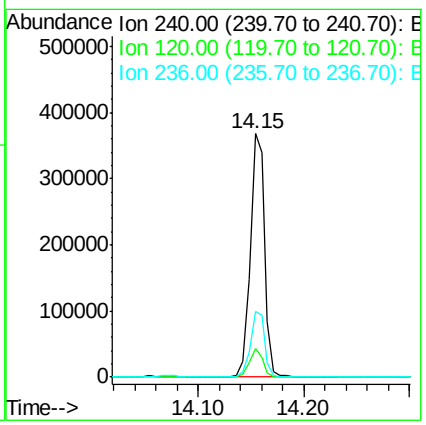


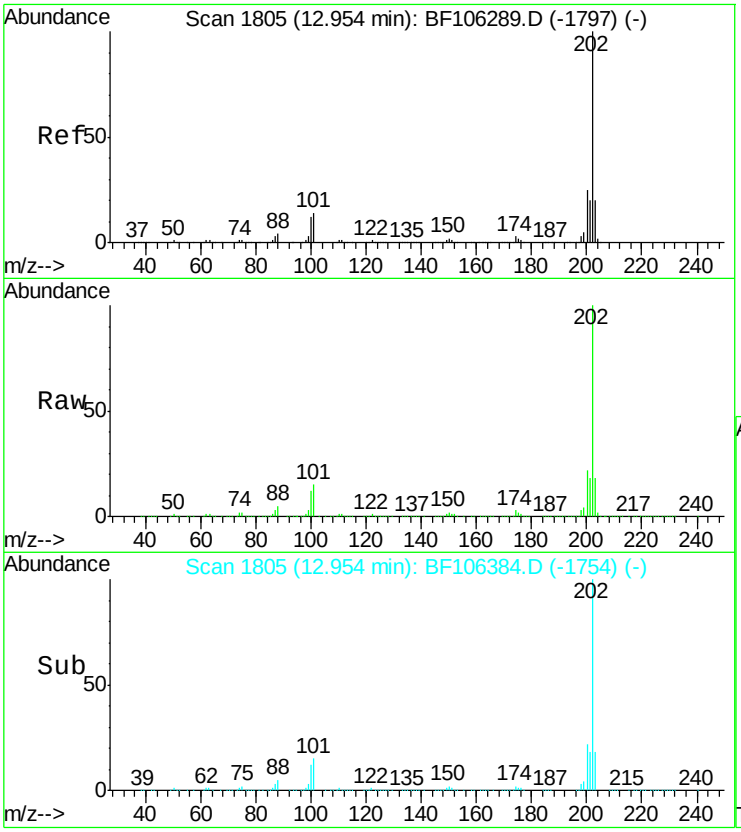




#75
Chrysene-d12
Concen: 20.000 ng
RT: 14.15 min Scan# 2009
Delta R.T. -0.01 min
Lab File: BF106384.D
Acq: 13 Jun 2018 10:11

Tgt Ion:240 Resp: 346864

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 11.9 | 9.5 | 14.3 |
| 236 | 26.8 | 20.7 | 31.1 |



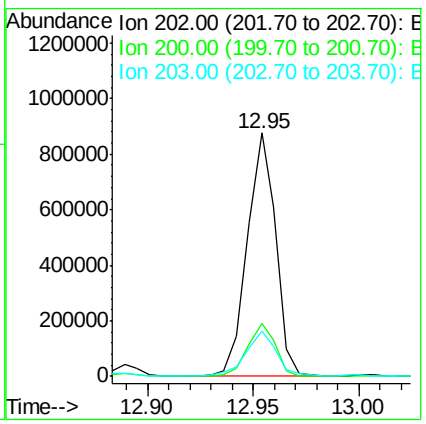


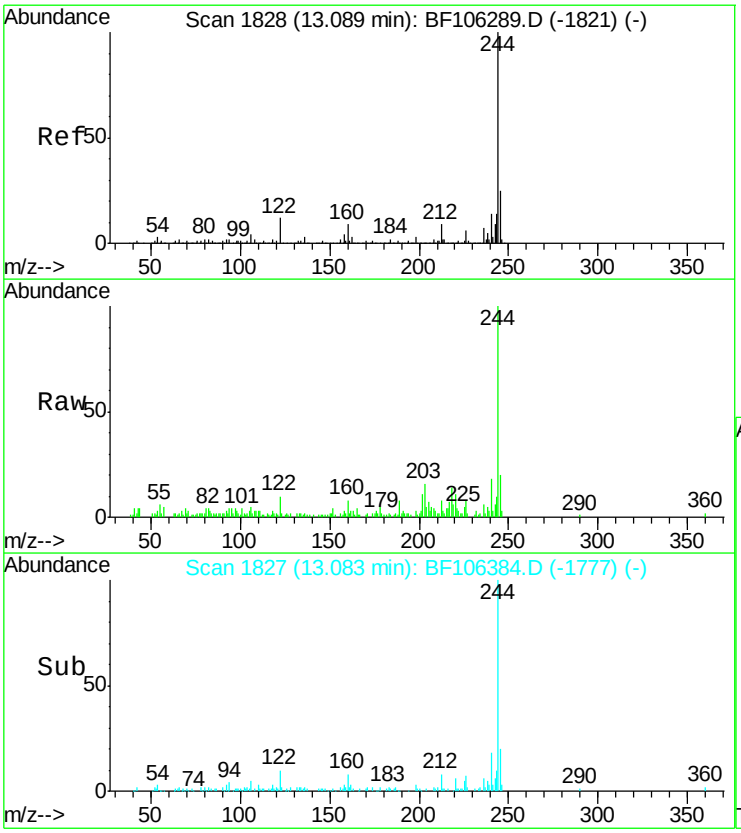

#77
Pyrene
Concen: 37.710 ng
RT: 12.95 min Scan# 1805
Delta R.T. 0.00 min
Lab File: BF106384.D
Acq: 13 Jun 2018 10:11

**Instrument :**
BNA_F
**ClientSampleId :**

Tgt Ion:202 Resp: 818902

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.9 | 17.4 | 26.2 |
| 203 | 18.4 | 14.3 | 21.5 |

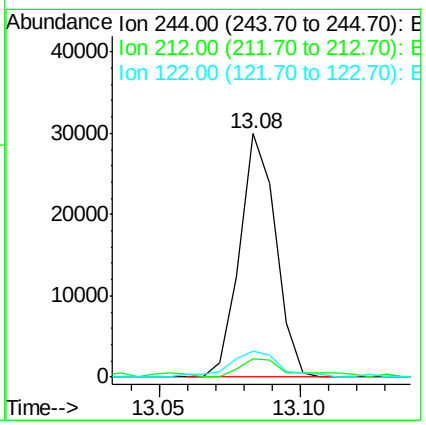


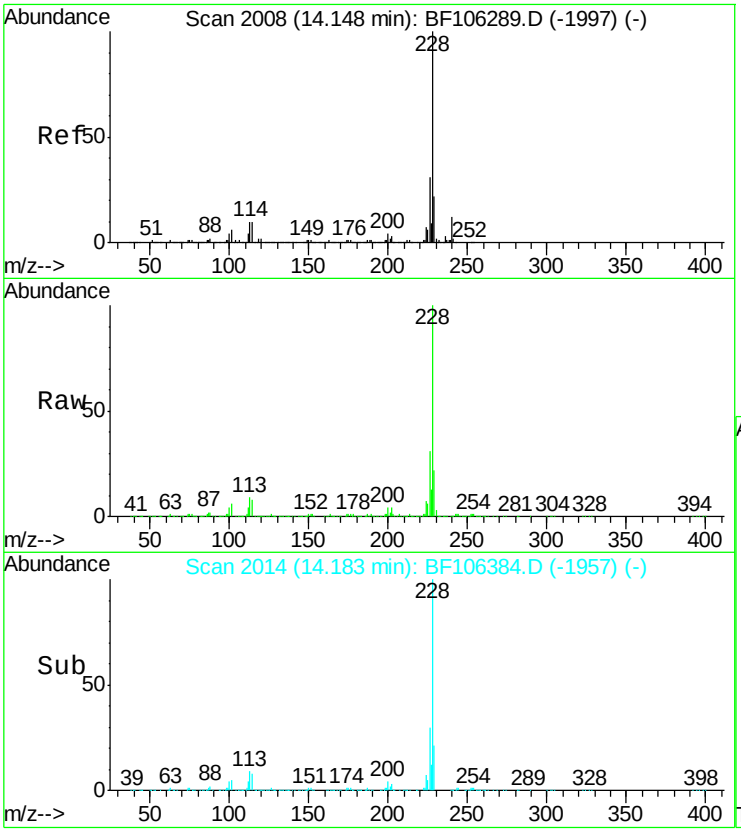




#78
Terphenyl-d14
Concen: 1.896 ng
RT: 13.08 min Scan# 1827
Delta R.T. -0.01 min
Lab File: BF106384.D
Acq: 13 Jun 2018 10:11

Tgt Ion:244 Resp: 26480

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 7.8 | 5.4 | 8.0 |
| 122 | 10.5 | 11.0 | 16.4# |



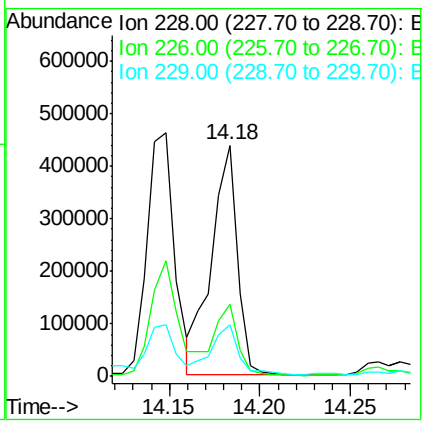


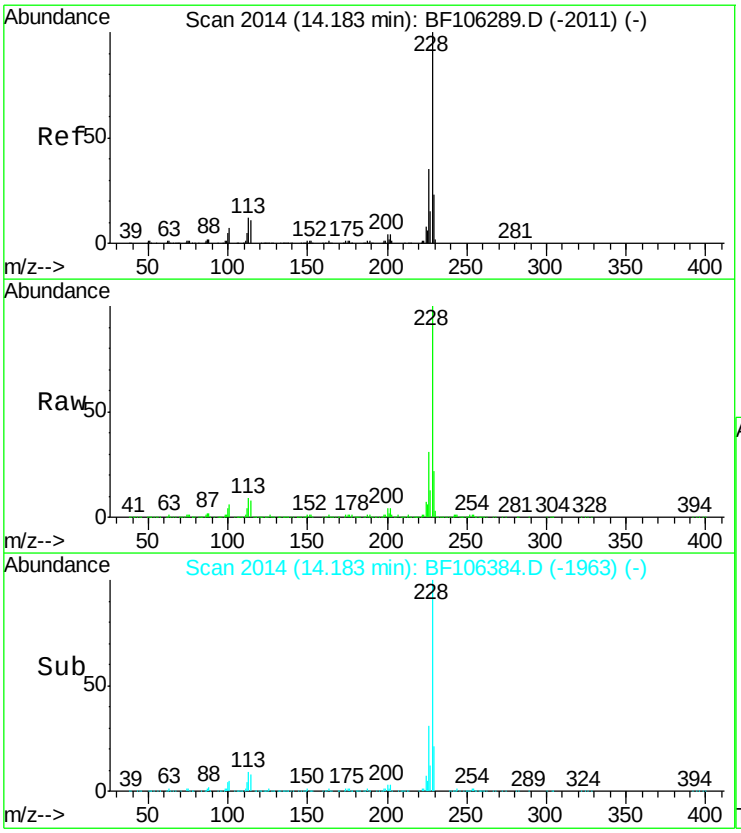

#80
Benzo(a)anthracene
Concen: 21.266 ng
RT: 14.18 min Scan# 2014
Delta R.T. 0.04 min
Lab File: BF106384.D
Acq: 13 Jun 2018 10:11

**Instrument :**
BNA_F
**ClientSampleId :**

Tgt Ion:228 Resp: 438959

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 31.1 | 22.6 | 33.8 |
| 229 | 22.1 | 15.8 | 23.6 |

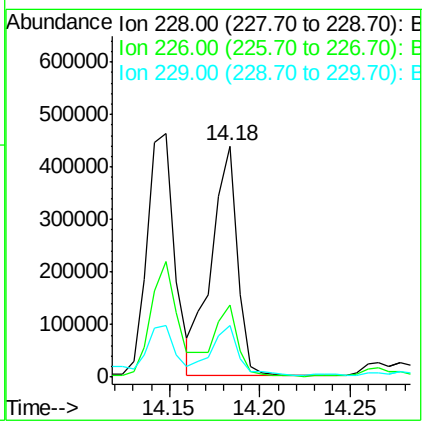


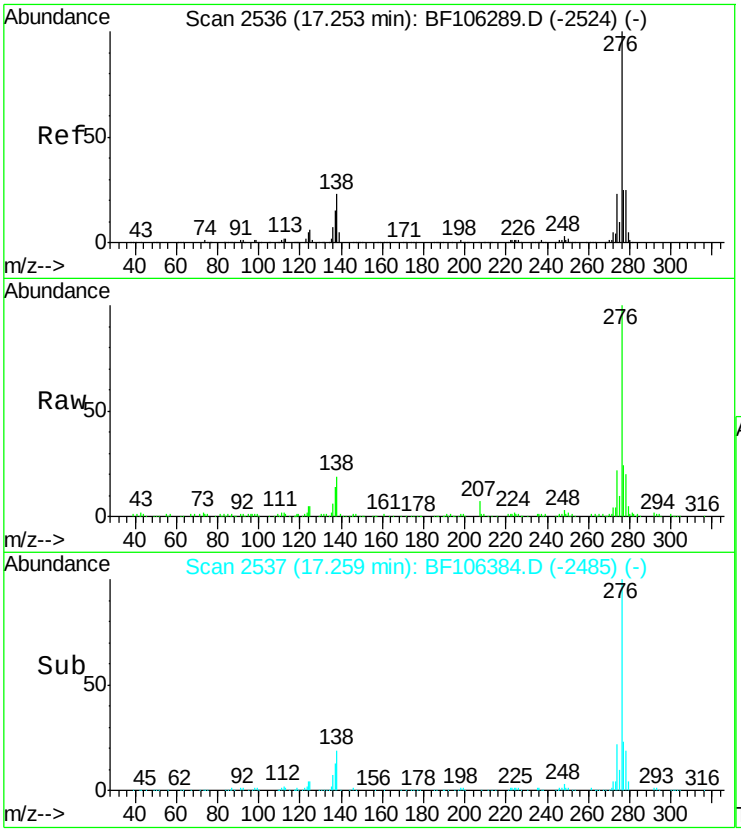




#82
Chrysene
Concen: 23.292 ng
RT: 14.18 min Scan# 2014
Delta R.T. 0.00 min
Lab File: BF106384.D
Acq: 13 Jun 2018 10:11

Tgt Ion:228 Resp: 438959

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 31.1 | 25.0 | 37.6 |
| 229 | 22.1 | 16.2 | 24.4 |



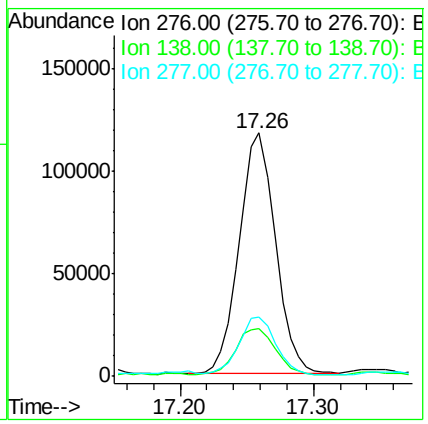


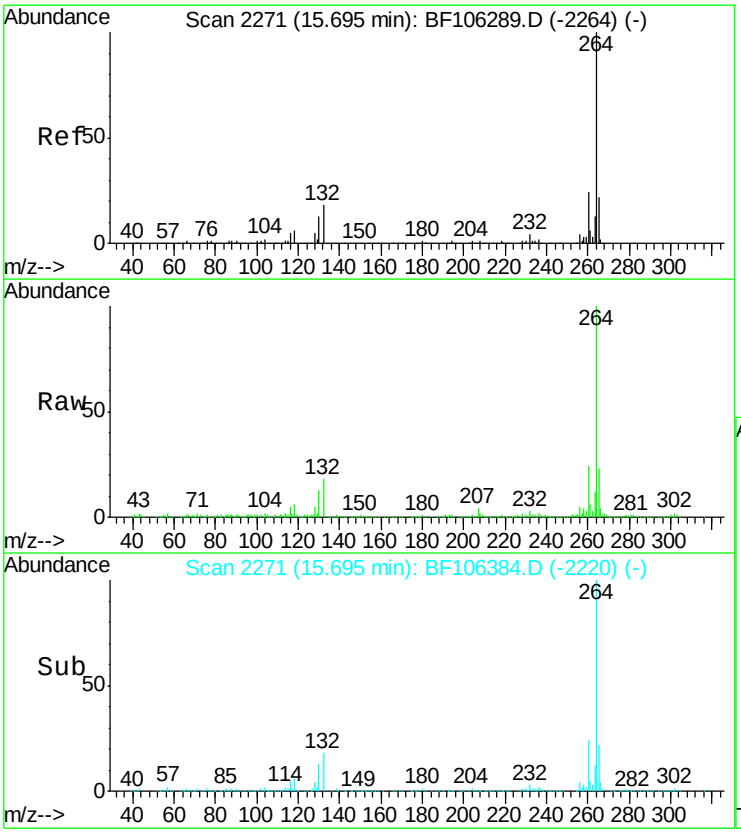

#85
Indeno(1,2,3-cd)pyrene
Concen: 14.668 ng
RT: 17.26 min Scan# 2537
Delta R.T. 0.01 min
Lab File: BF106384.D
Acq: 13 Jun 2018 10:11

**Instrument :**
BNA_F
**ClientSampleId :**

Tgt Ion:276 Resp: 220620

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 21.1 | 25.0 | 37.6# |
| 277 | 24.4 | 20.1 | 30.1 |

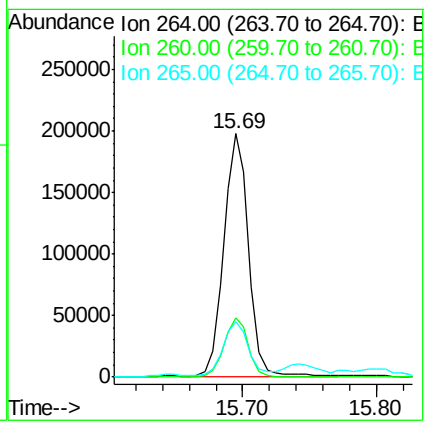


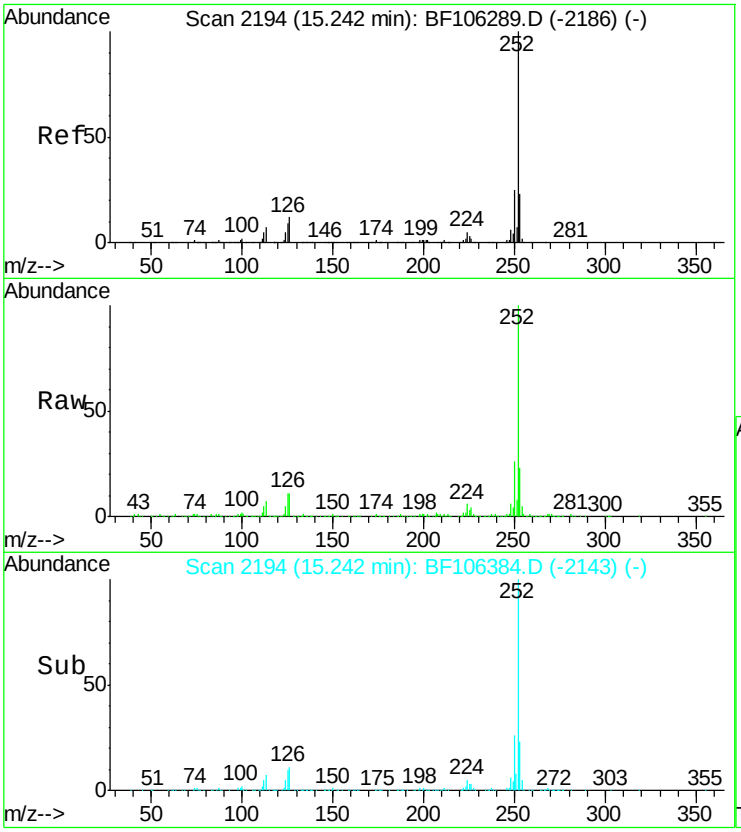




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.69 min Scan# 2271
Delta R.T. 0.00 min
Lab File: BF106384.D
Acq: 13 Jun 2018 10:11

Tgt Ion:264 Resp: 256875

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 24.4 | 19.2 | 28.8 |
| 265 | 22.7 | 17.5 | 26.3 |



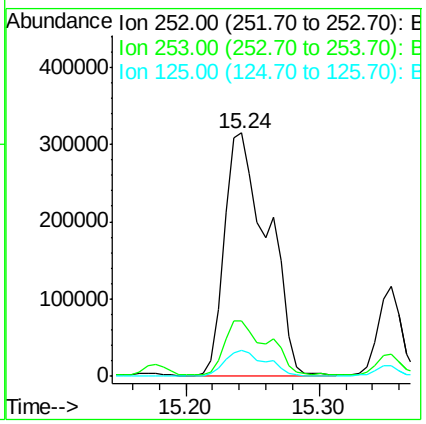


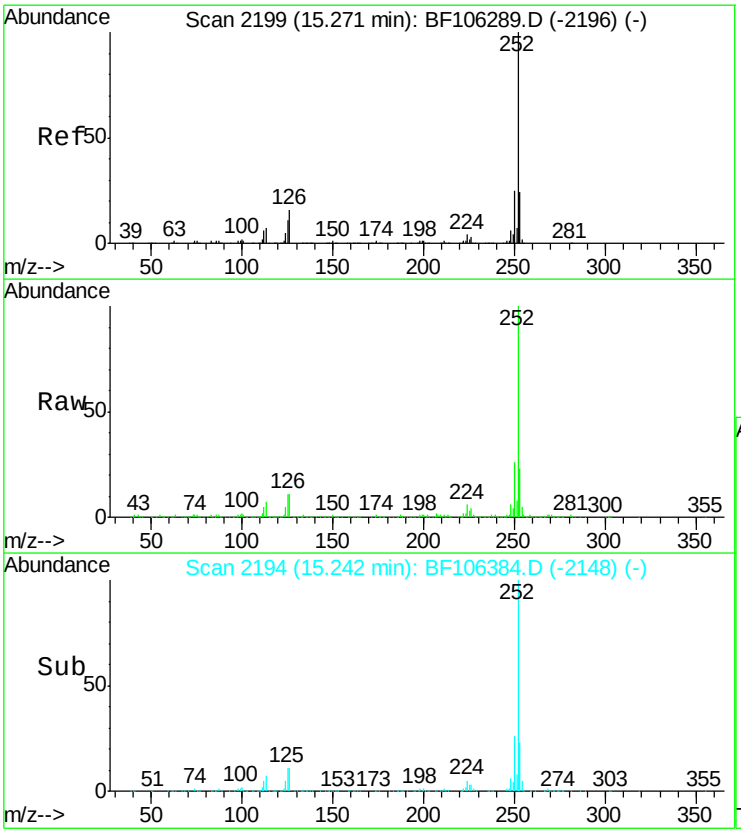

#87
Benzo(b)fluoranthene
Concen: 45.556 ng
RT: 15.24 min Scan# 2194
Delta R.T. 0.00 min
Lab File: BF106384.D
Acq: 13 Jun 2018 10:11

**Instrument :**
BNA_F
**ClientSampleId :**

Tgt Ion:252 Resp: 707383

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.9 | 17.0 | 25.6 |
| 125 | 10.8 | 9.0 | 13.6 |

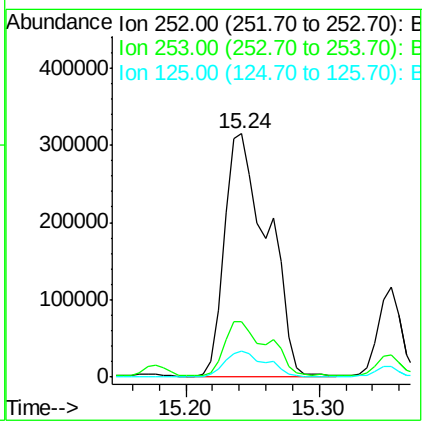


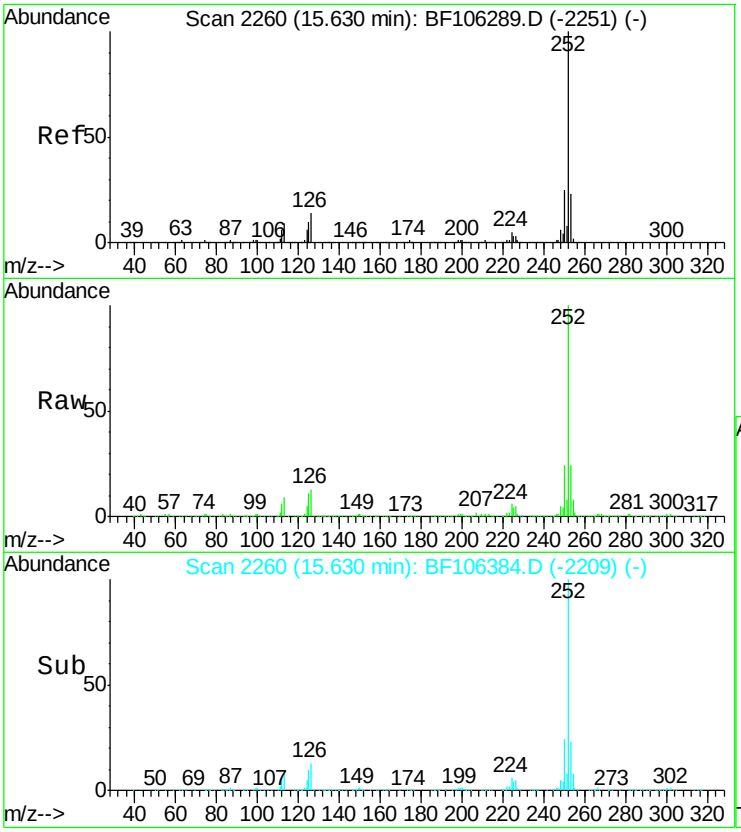




#88
Benzo(k)fluoranthene
Concen: 45.999 ng
RT: 15.24 min Scan# 2194
Delta R.T. -0.03 min
Lab File: BF106384.D
Acq: 13 Jun 2018 10:11

Tgt Ion:252 Resp: 707383

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.9 | 17.9 | 26.9 |
| 125 | 10.8 | 10.2 | 15.2 |



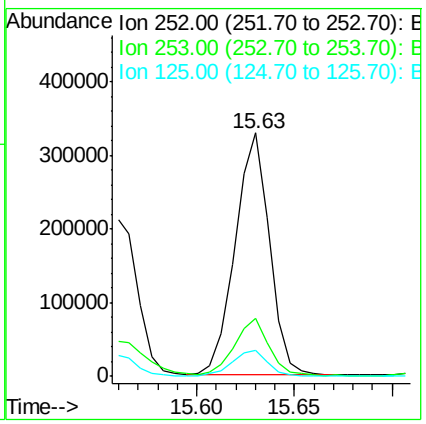


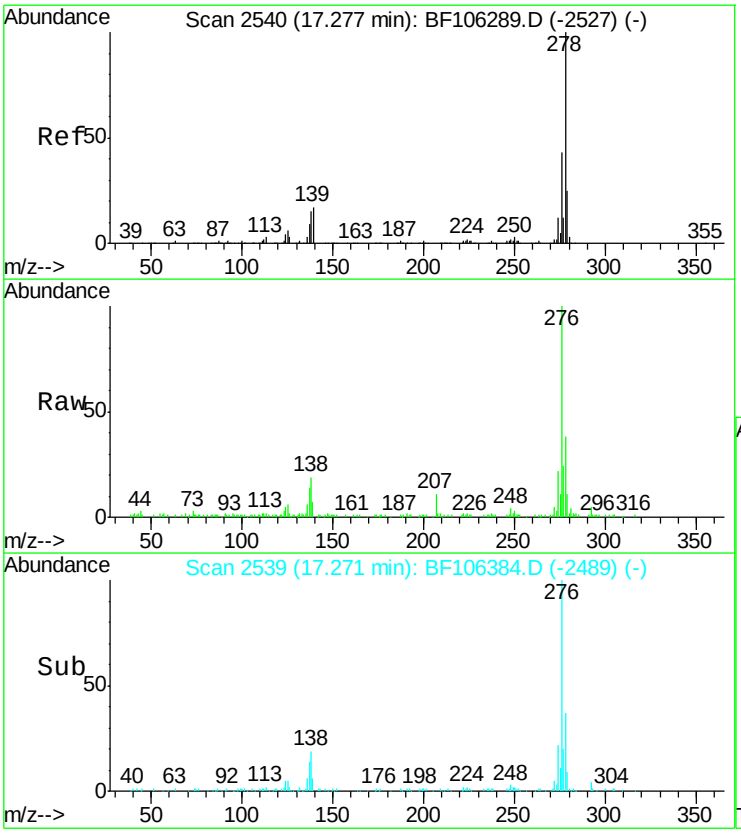

#89
Benzo(a)pyrene
Concen: 28.753 ng
RT: 15.63 min Scan# 2260
Delta R.T. 0.00 min
Lab File: BF106384.D
Acq: 13 Jun 2018 10:11

**Instrument :**
BNA_F
**ClientSampleId :**

Tgt Ion:252 Resp: 401586

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 23.6 | 17.1 | 25.7 |
| 125 | 10.5 | 9.8 | 14.6 |

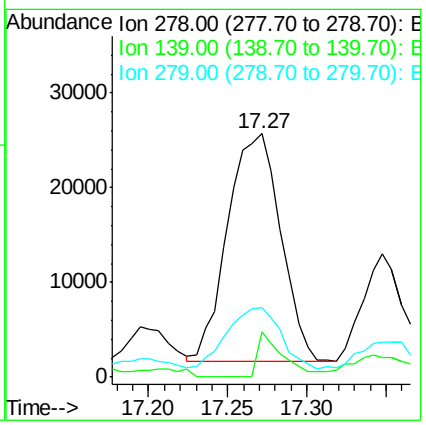


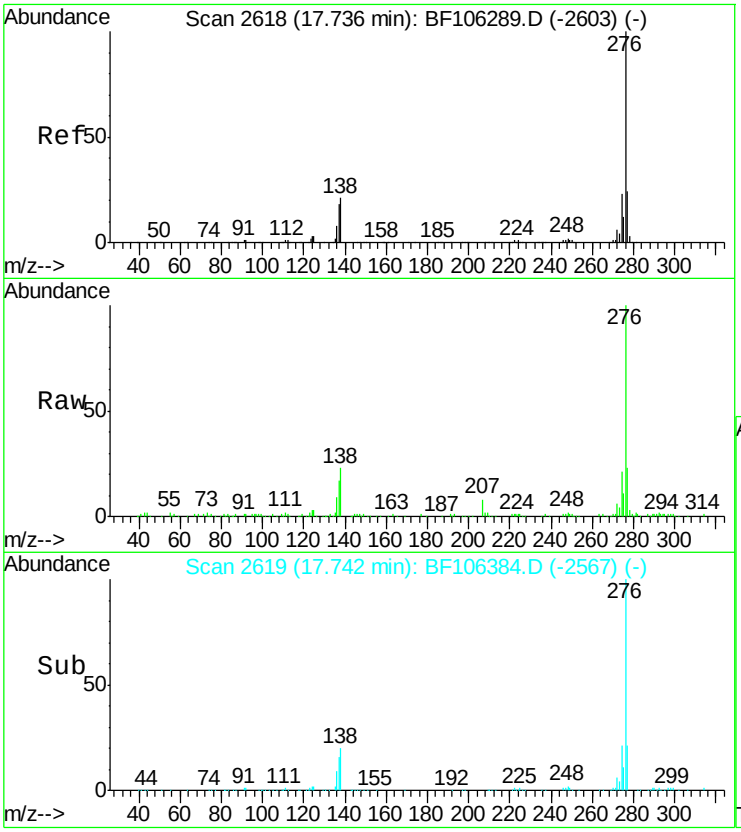




#90
Dibenzo(a,h)anthracene
Concen: 4.821 ng
RT: 17.27 min Scan# 2539
Delta R.T. -0.01 min
Lab File: BF106384.D
Acq: 13 Jun 2018 10:11

Tgt Ion:278 Resp: 56137

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 18.4 | 15.9 | 23.9 |
| 279 | 28.4 | 19.0 | 28.4 |






#91
Benzo(g,h,i)perylene
Concen: 19.833 ng
RT: 17.74 min Scan# 2619
Delta R.T. 0.01 min
Lab File: BF106384.D
Acq: 13 Jun 2018 10:11

**Instrument :**
BNA_F
**ClientSampleId :**

Tgt Ion:276 Resp: 224431

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 23.1 | 17.9 | 26.9 |
| 138 | 22.6 | 21.8 | 32.8 |