Data Path : Z:\HPCHEM1\BNA_F\DATA\BF060917\

Quantitation Report (QT Reviewed)

Data File : BF095816.D
Acq On : 9 Jun 2017 12:15
Operator : SJ/MA
Sample : I3457-05
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S-15

Quant Time: Jun 10 01:53:44 2017
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jun 05 16:15:31 2017
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 7.37 | 152 | 69968 | 20.00 | ng | | -0.03 |
| 21) Naphthalene-d8 | 9.40 | 136 | 288563 | 20.00 | ng | | -0.04 |
| 38) Acenaphthene-d10 | 12.22 | 164 | 128227 | 20.00 | ng | | -0.04 |
| 63) Phenanthrene-d10 | 14.62 | 188 | 212363 | 20.00 | ng | | -0.03 |
| 75) Chrysene-d12 | 18.34 | 240 | 139331 | 20.00 | ng | | -0.02 |
| 86) Perylene-d12 | 20.01 | 264 | 132959 | 20.00 | ng | | -0.01 |
| **System Monitoring Compounds** | | | | | | | |
| 5) 2-Fluorophenol | 5.26 | 112 | 450151 | 102.52 | ng | | -0.03 |
| 7) Phenol-d6 | 6.93 | 99 | 569355 | 108.31 | ng | | -0.03 |
| 23) Nitrobenzene-d5 | 8.28 | 82 | 324658 | 69.87 | ng | | -0.04 |
| 41) 2,4,6-Tribromophenol | 13.52 | 330 | 107019 | 94.33 | ng | | -0.04 |
| 44) 2-Fluorobiphenyl | 11.18 | 172 | 548826 | 59.56 | ng | | -0.04 |
| 78) Terphenyl-d14 | 16.99 | 244 | 348397 | 62.06 | ng | | -0.02 |
| **Target Compounds** | | | | | | | Qvalue |
| 31) Naphthalene | 9.43 | 128 | 29072 | 2.01 | ng | | 99 |
| 48) Acenaphthylene | 11.99 | 152 | 106427 | 7.54 | ng | | 98 |
| 49) Dimethylphthalate | 11.87 | 163 | 83597 | 8.59 | ng | | 100 |
| 51) Acenaphthene | 12.27 | 154 | 21096 | 2.59 | ng | | 100 |
| 57) Fluorene | 13.11 | 166 | 69837 | 6.99 | ng | | 98 |
| 70) Phenanthrene | 14.66 | 178 | 705903 | 57.61 | ng | | 98 |
| 71) Anthracene | 14.74 | 178 | 129844 | 10.15 | ng | | 97 |
| 72) Carbazole | 15.04 | 167 | 26260 | 2.11 | ng | | 97 |
| 74) Fluoranthene | 16.44 | 202 | 517899 | 42.70 | ng | | 99 |
| 77) Pyrene | 16.74 | 202 | 640629 | 61.62 | ng | | 98 |
| 80) Benzo(a)anthracene | 18.33 | 228 | 219957m | 27.15 | ng | | |
| 82) Chrysene | 18.37 | 228 | 244403m | 30.19 | ng | | |
| 83) Bis(2-ethylhexyl)phthalate | 18.42 | 149 | 56584 | 8.83 | ng | # | 97 |
| 85) Indeno(1,2,3-cd)pyrene | 21.19 | 276 | 74007 | 10.68 | ng | | 97 |
| 87) Benzo(b)fluoranthene | 19.61 | 252 | 200681m | 24.10 | ng | | |
| 88) Benzo(k)fluoranthene | 19.63 | 252 | 53596m | 6.74 | ng | | |
| 89) Benzo(a)pyrene | 19.96 | 252 | 172466 | 22.54 | ng | # | 95 |
| 90) Dibenzo(a,h)anthracene | 21.19 | 278 | 20686 | 3.19 | ng | # | 70 |
| 91) Benzo(g,h,i)perylene | 21.52 | 276 | 77764 | 11.75 | ng | | 99 |

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

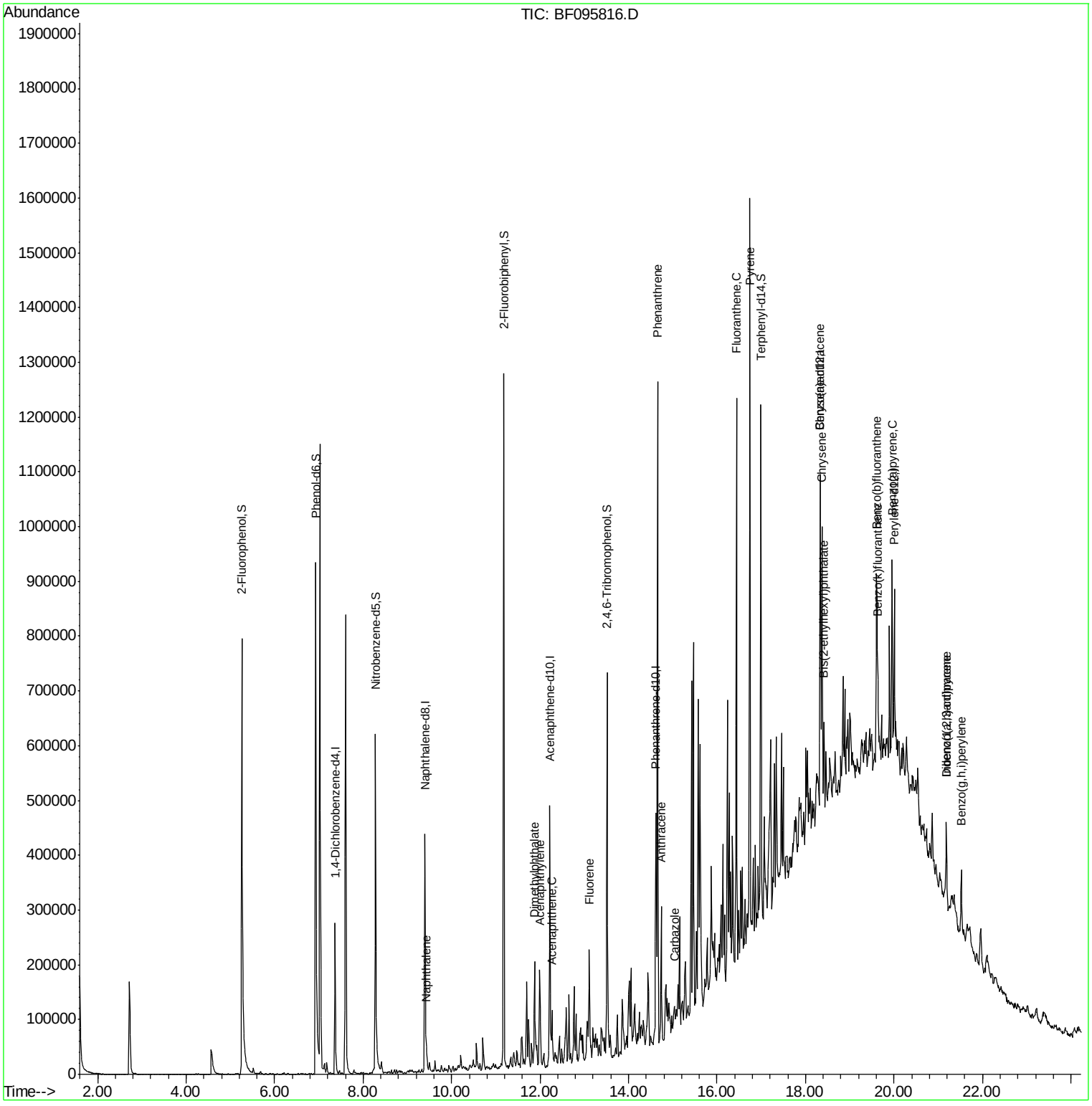
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF060917\

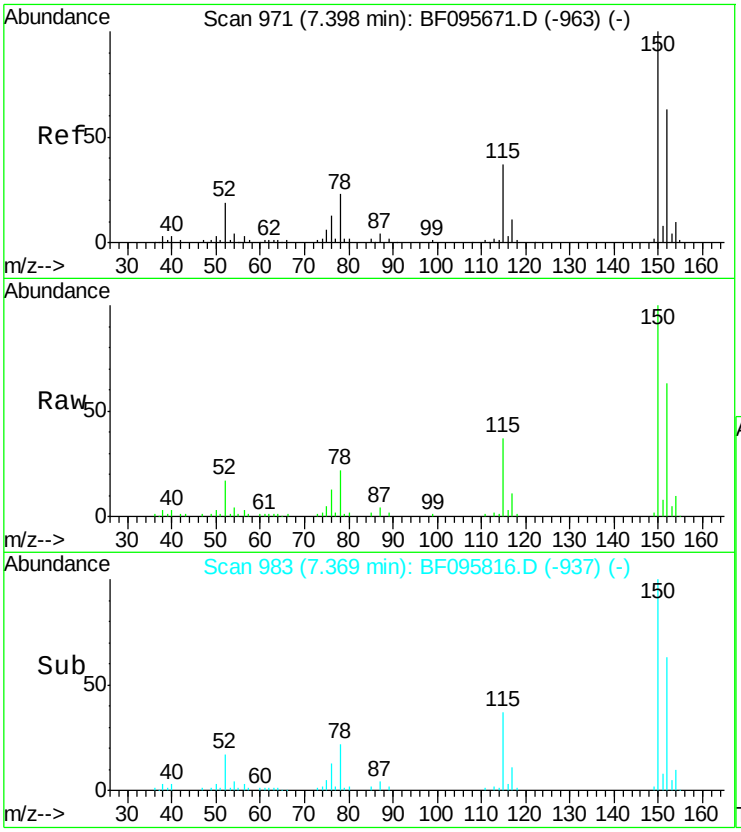
Quantitation Report (QT Reviewed)

Data File : BF095816.D
Acq On : 9 Jun 2017 12:15
Operator : SJ/MA
Sample : I3457-05
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S-15

Quant Time: Jun 10 01:53:44 2017
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jun 05 16:15:31 2017
Response via : Initial Calibration



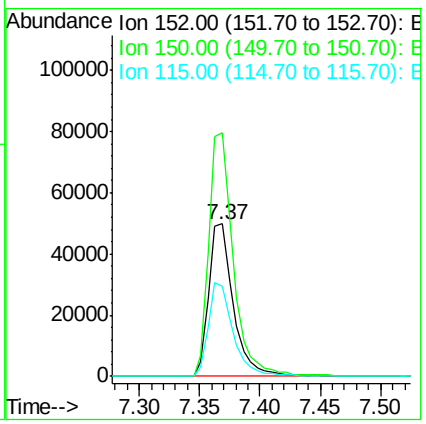


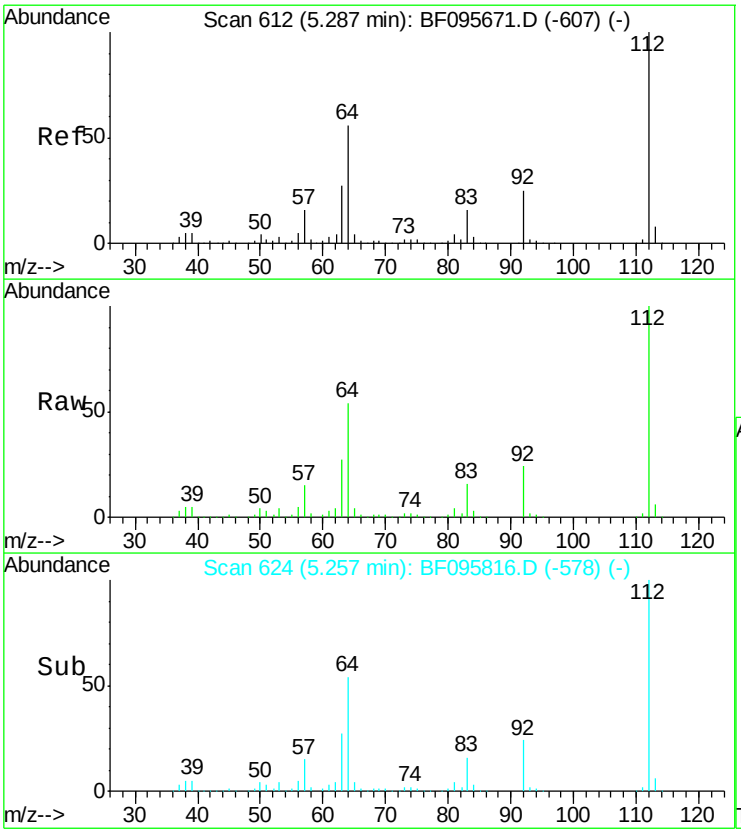

#1
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.37 min Scan# 983
Delta R.T. -0.03 min
Lab File: BF095816.D
Acq: 9 Jun 2017 12:15

**Instrument :**
BNA_F
**ClientSampleId :**
S-15

Tgt Ion:152 Resp: 69968

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 159.5 | 126.2 | 189.2 |
| 115 | 59.3 | 52.2 | 78.2 |

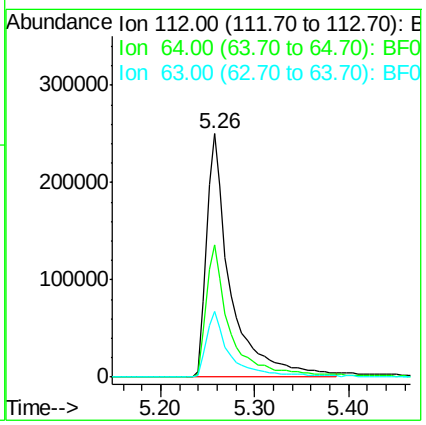


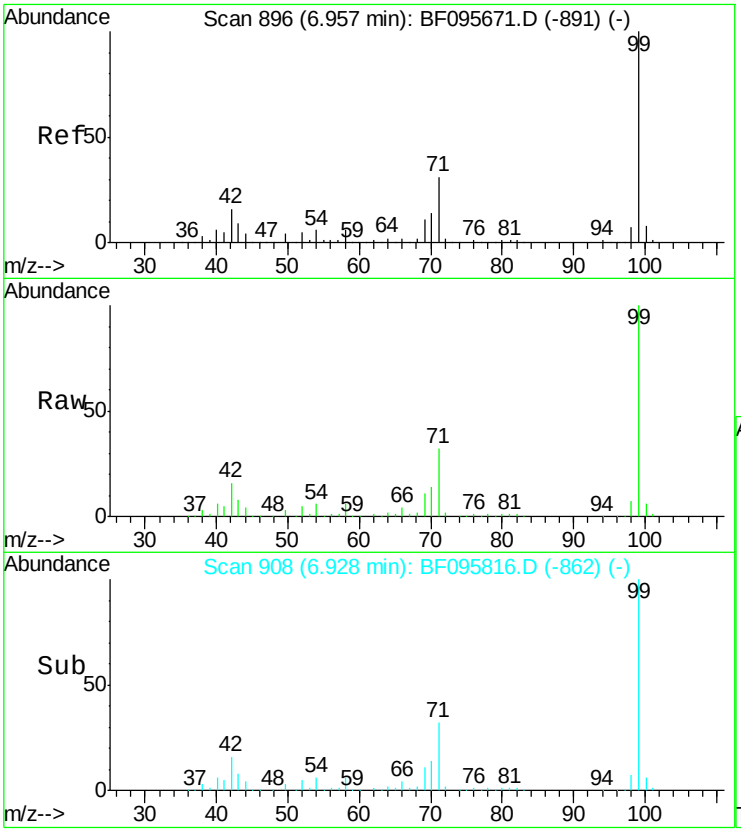




#5
2-Fluorophenol
Concen: 102.52 ng
RT: 5.26 min Scan# 624
Delta R.T. -0.03 min
Lab File: BF095816.D
Acq: 9 Jun 2017 12:15

Tgt Ion:112 Resp: 450151

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 54.5 | 46.0 | 69.0 |
| 63 | 26.8 | 23.4 | 35.0 |



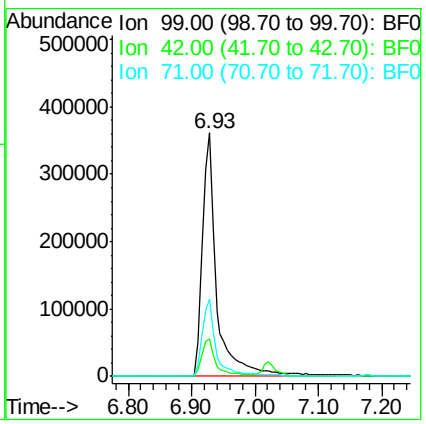


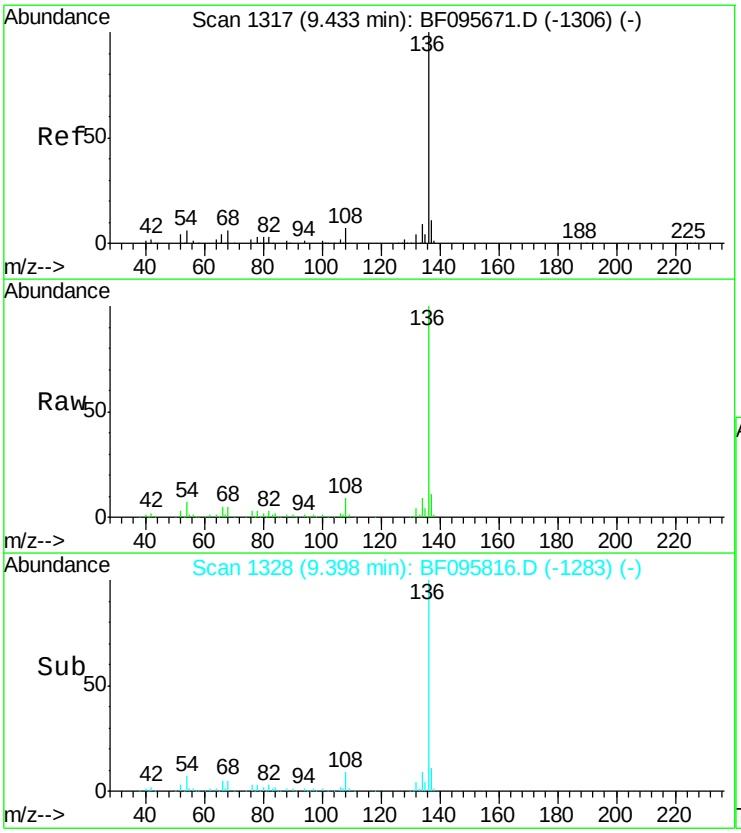

#7
Phenol-d6
Concen: 108.31 ng
RT: 6.93 min Scan# 908
Delta R.T. -0.03 min
Lab File: BF095816.D
Acq: 9 Jun 2017 12:15

**Instrument :**
BNA_F
**ClientSampleId :**
S-15

Tgt Ion: 99 Resp: 569355

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 15.6 | 13.5 | 20.3 |
| 71 | 31.7 | 24.5 | 36.7 |

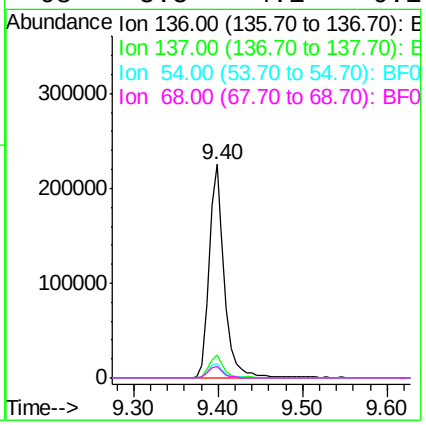


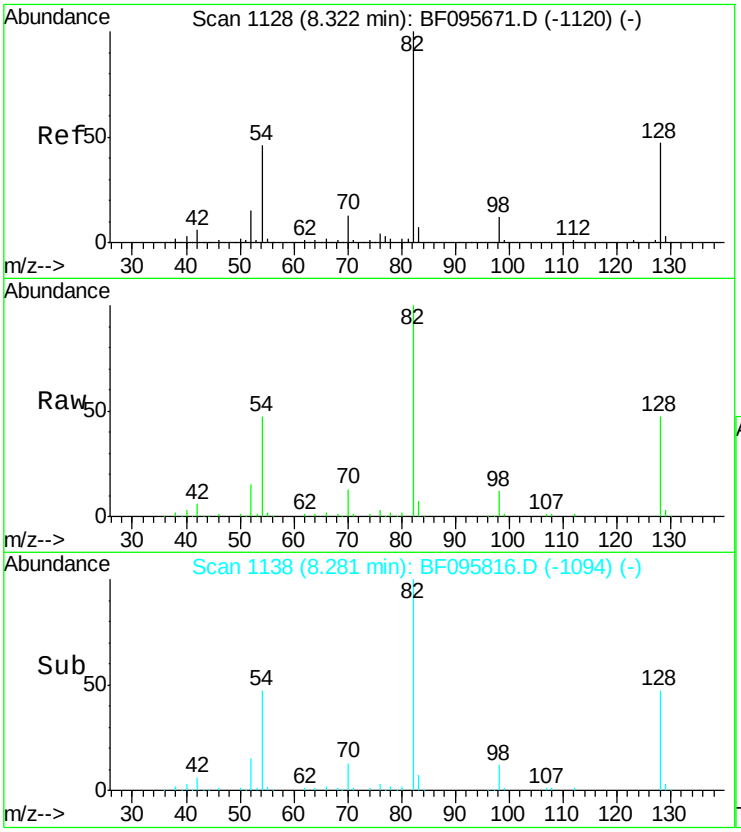




#21
Naphthalene-d8
Concen: 20.00 ng
RT: 9.40 min Scan# 1328
Delta R.T. -0.04 min
Lab File: BF095816.D
Acq: 9 Jun 2017 12:15

Tgt Ion:136 Resp: 288563

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 10.5 | 8.5 | 12.7 |
| 54 | 6.8 | 4.9 | 7.3 |
| 68 | 5.5 | 4.1 | 6.1 |



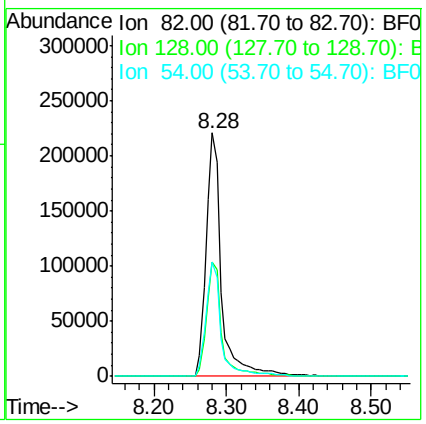


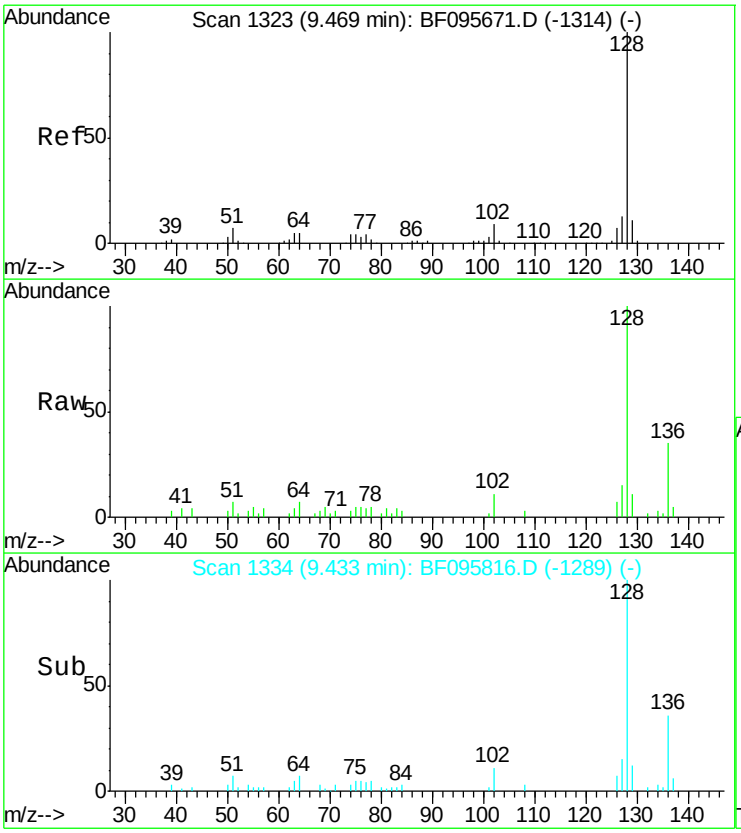

#23
Nitrobenzene-d5
Concen: 69.87 ng
RT: 8.28 min Scan# 1138
Delta R.T. -0.04 min
Lab File: BF095816.D
Acq: 9 Jun 2017 12:15

**Instrument :**
BNA_F
**ClientSampleId :**
S-15

Tgt Ion: 82 Resp: 324658

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 46.8 | 34.0 | 51.0 |
| 54 | 47.0 | 42.2 | 63.2 |

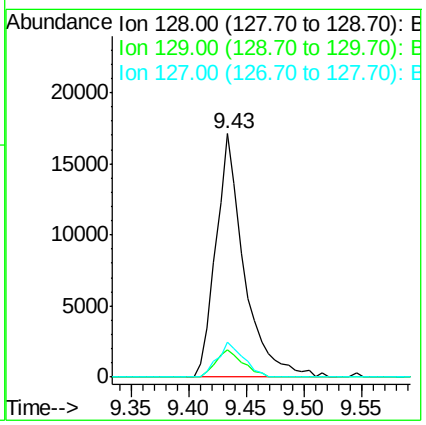


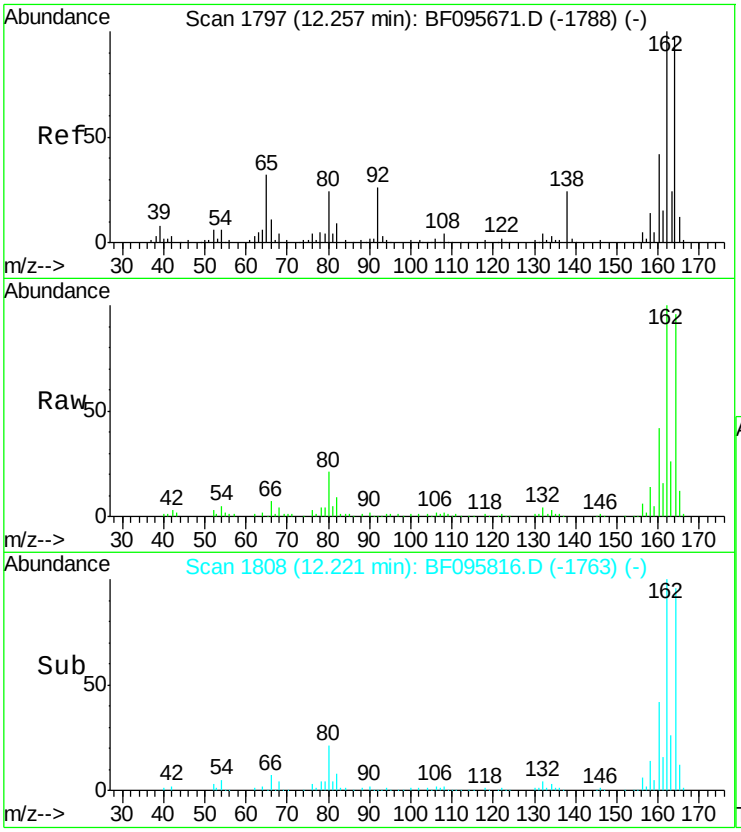




#31
Naphthalene
Concen: 2.01 ng
RT: 9.43 min Scan# 1334
Delta R.T. -0.04 min
Lab File: BF095816.D
Acq: 9 Jun 2017 12:15

Tgt Ion:128 Resp: 29072

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.3 | 9.0 | 13.6 |
| 127 | 14.5 | 10.8 | 16.2 |



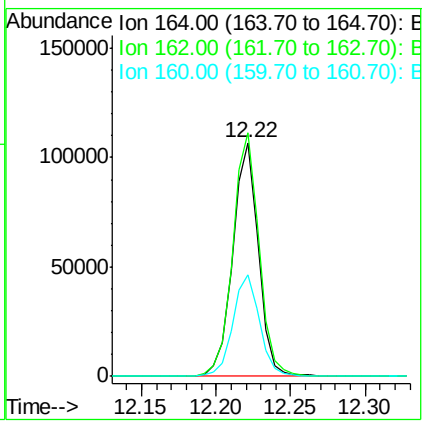


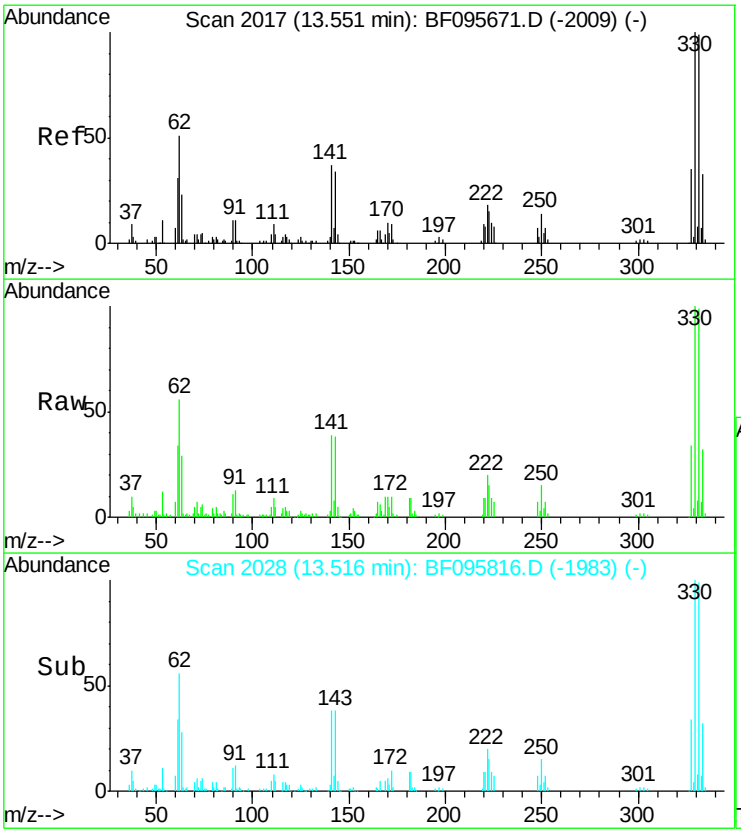

#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 12.22 min Scan# 1808
Delta R.T. -0.04 min
Lab File: BF095816.D
Acq: 9 Jun 2017 12:15

**Instrument :**
BNA_F
**ClientSampleId :**
S-15

Tgt Ion:164 Resp: 128227

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 104.3 | 82.6 | 123.8 |
| 160 | 43.5 | 36.2 | 54.2 |

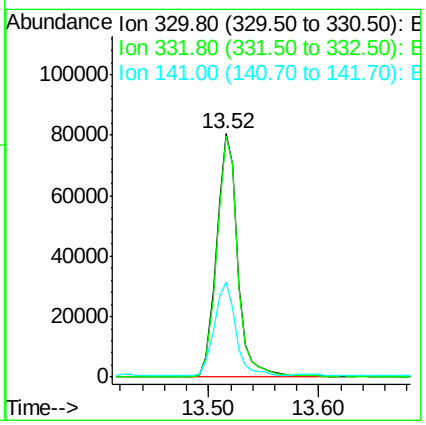


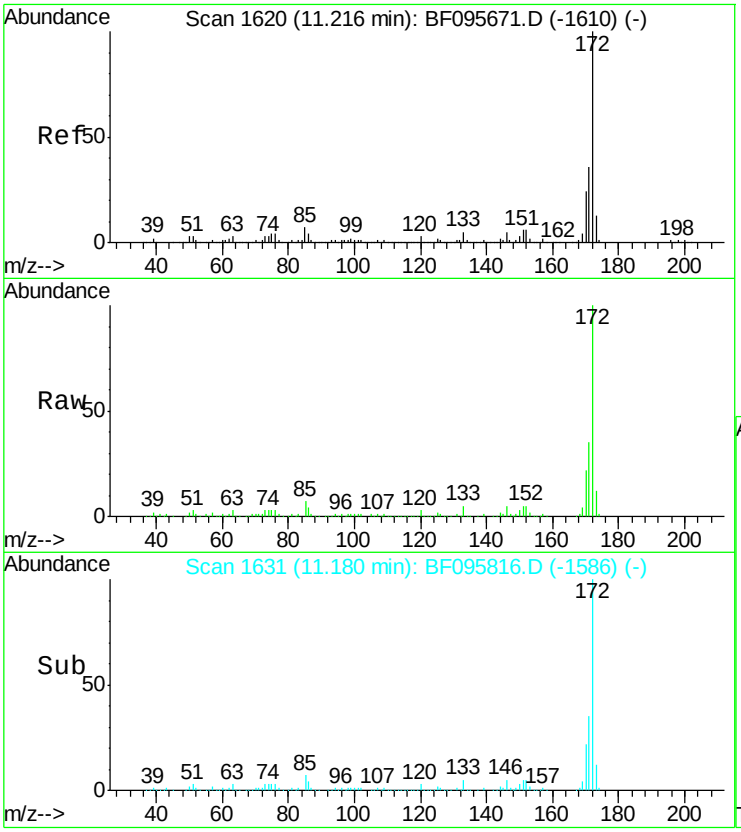




#41
2,4,6-Tribromophenol
Concen: 94.33 ng
RT: 13.52 min Scan# 2028
Delta R.T. -0.04 min
Lab File: BF095816.D
Acq: 9 Jun 2017 12:15

Tgt Ion:330 Resp: 107019

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 98.1 | 76.6 | 115.0 |
| 141 | 38.9 | 31.4 | 47.2 |



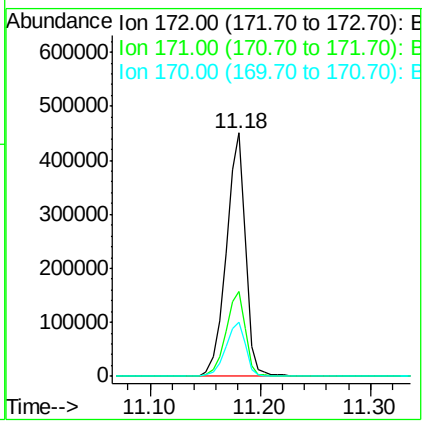


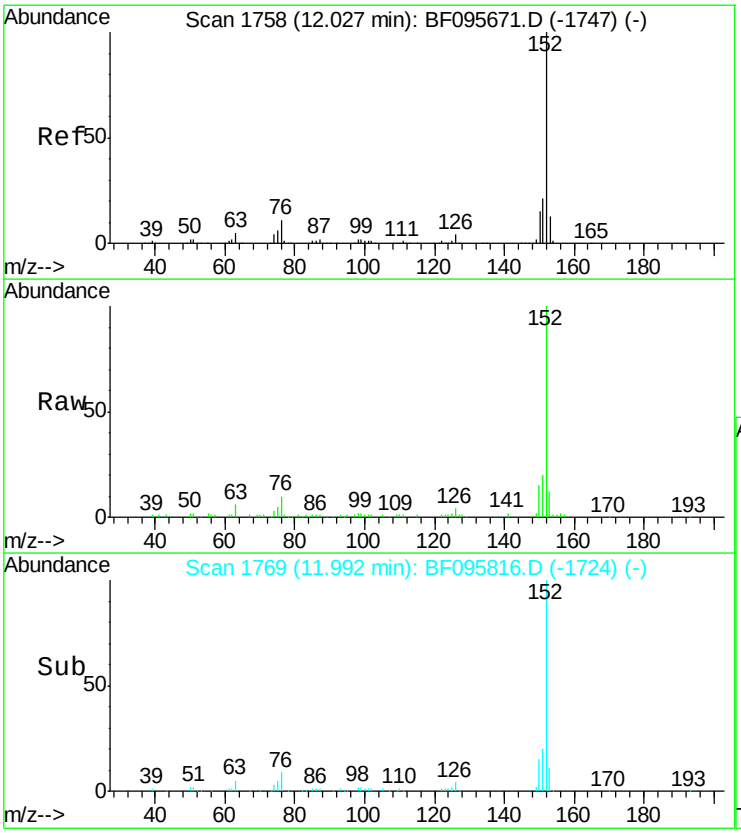

#44
2-Fluorobiphenyl
Concen: 59.56 ng
RT: 11.18 min Scan# 1631
Delta R.T. -0.04 min
Lab File: BF095816.D
Acq: 9 Jun 2017 12:15

**Instrument :**
BNA_F
**ClientSampleId :**
S-15

Tgt Ion:172 Resp: 548826

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.1 | 29.6 | 44.4 |
| 170 | 22.5 | 19.8 | 29.8 |

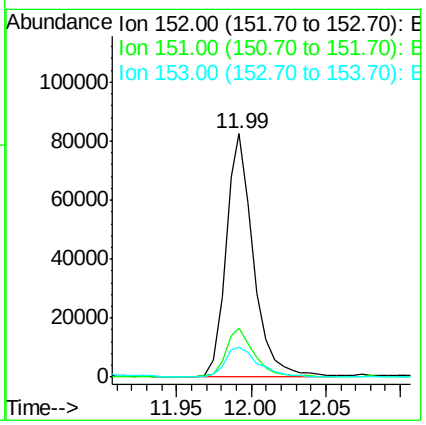


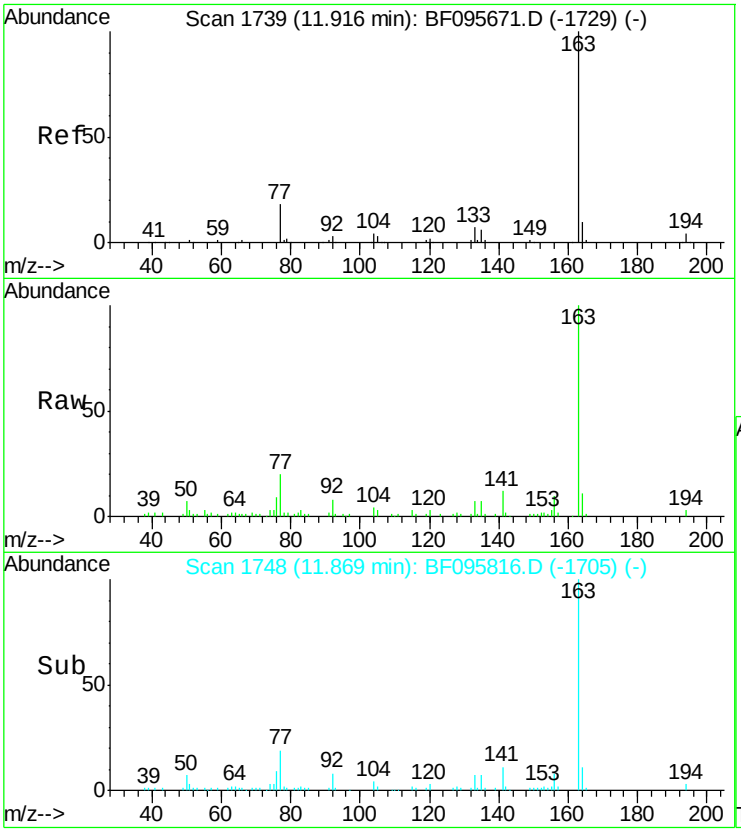




#48
Acenaphthylene
Concen: 7.54 ng
RT: 11.99 min Scan# 1769
Delta R.T. -0.04 min
Lab File: BF095816.D
Acq: 9 Jun 2017 12:15

Tgt Ion:152 Resp: 106427

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.2 | 16.8 | 25.2 |
| 153 | 12.5 | 10.8 | 16.2 |



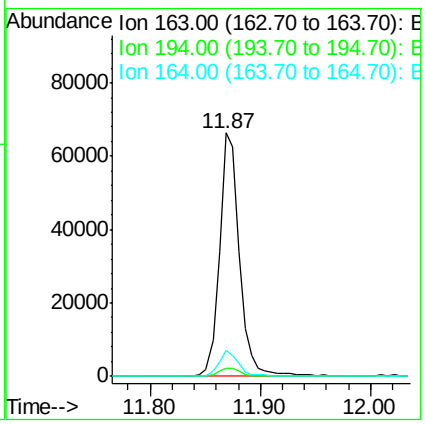


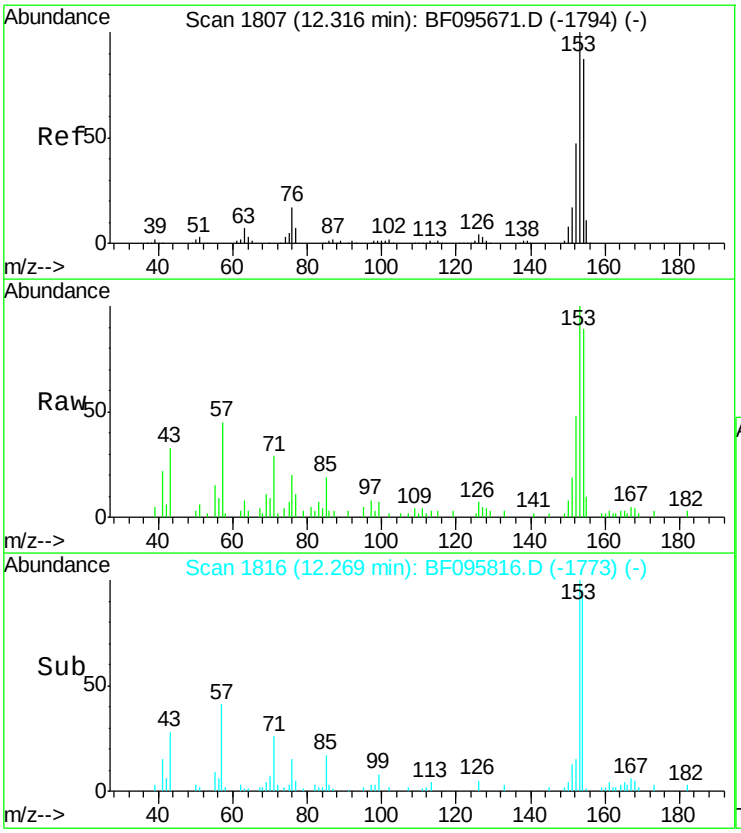

#49
Dimethylphthalate
Concen: 8.59 ng
RT: 11.87 min Scan# 1748
Delta R.T. -0.05 min
Lab File: BF095816.D
Acq: 9 Jun 2017 12:15

**Instrument :**
BNA_F
**ClientSampleId :**
S-15

Tgt Ion:163 Resp: 83597

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 163 | 100 | | |
| 194 | 3.2 | 2.6 | 4.0 |
| 164 | 10.6 | 8.4 | 12.6 |

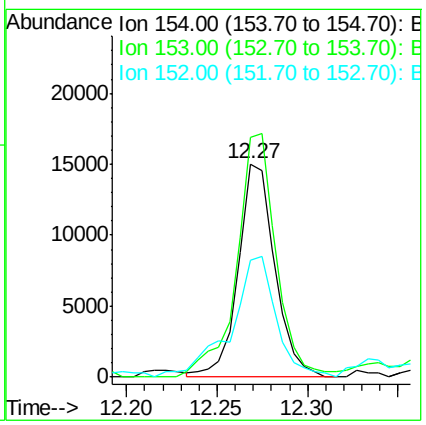


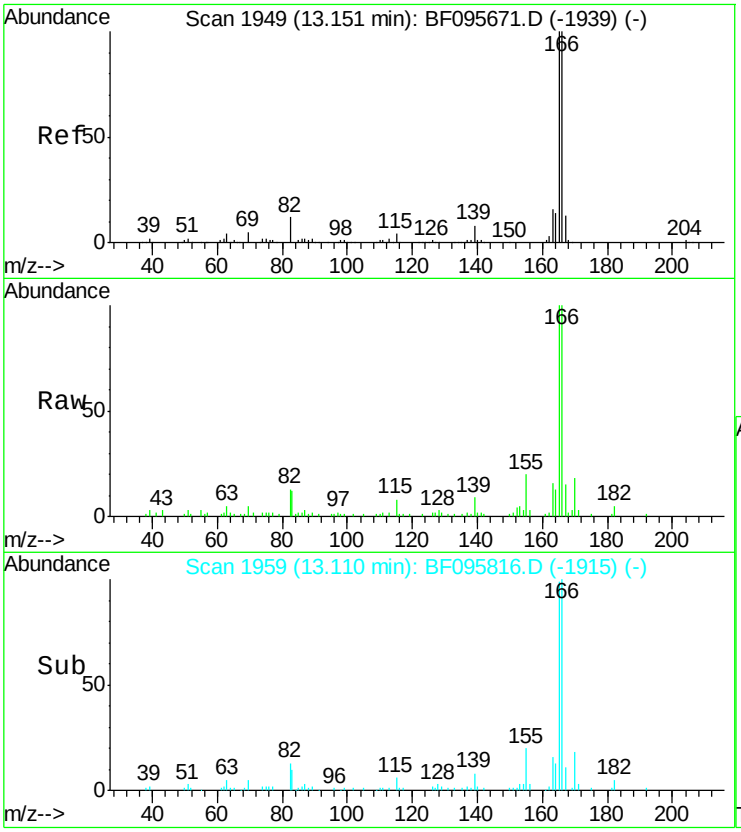




#51
Acenaphthene
Concen: 2.59 ng
RT: 12.27 min Scan# 1816
Delta R.T. -0.05 min
Lab File: BF095816.D
Acq: 9 Jun 2017 12:15

Tgt Ion:154 Resp: 21096

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 112.6 | 90.5 | 135.7 |
| 152 | 54.6 | 43.6 | 65.4 |



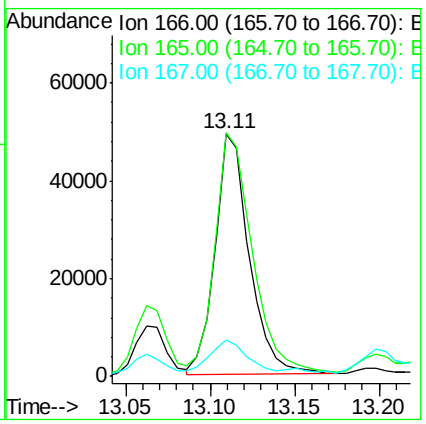


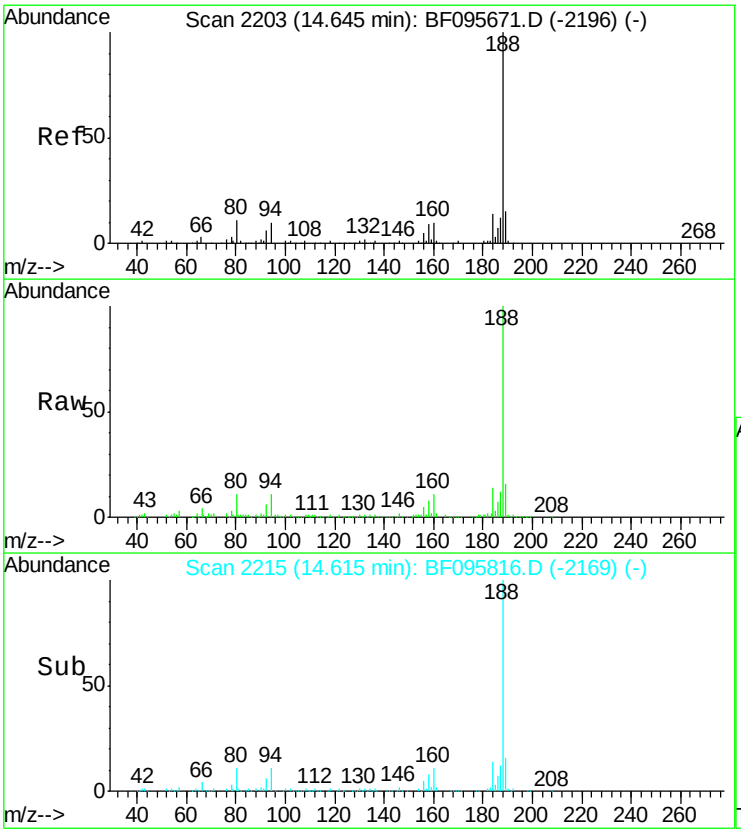

#57
Fluorene
Concen: 6.99 ng
RT: 13.11 min Scan# 1959
Delta R.T. -0.04 min
Lab File: BF095816.D
Acq: 9 Jun 2017 12:15

**Instrument :**
BNA_F
**ClientSampleId :**
S-15

Tgt Ion:166 Resp: 69837

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 100.3 | 78.8 | 118.2 |
| 167 | 14.7 | 10.6 | 16.0 |

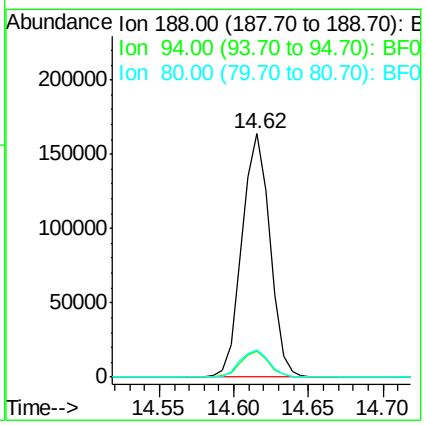


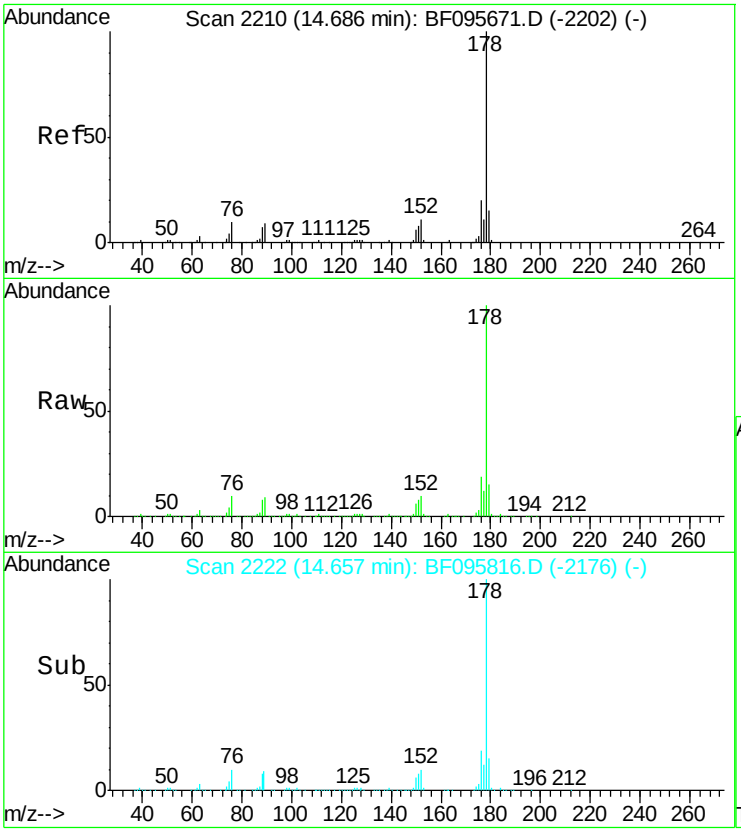




#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 14.62 min Scan# 2215
Delta R.T. -0.03 min
Lab File: BF095816.D
Acq: 9 Jun 2017 12:15

Tgt Ion:188 Resp: 212363

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 10.8 | 9.4 | 14.2 |
| 80 | 11.3 | 10.2 | 15.2 |



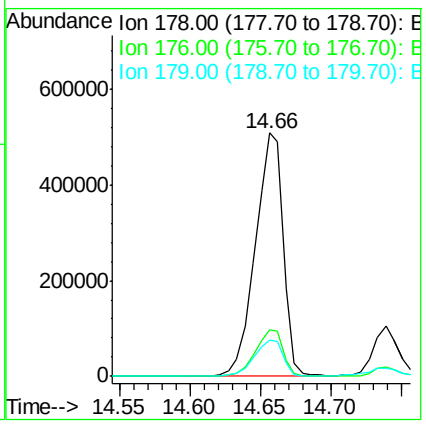


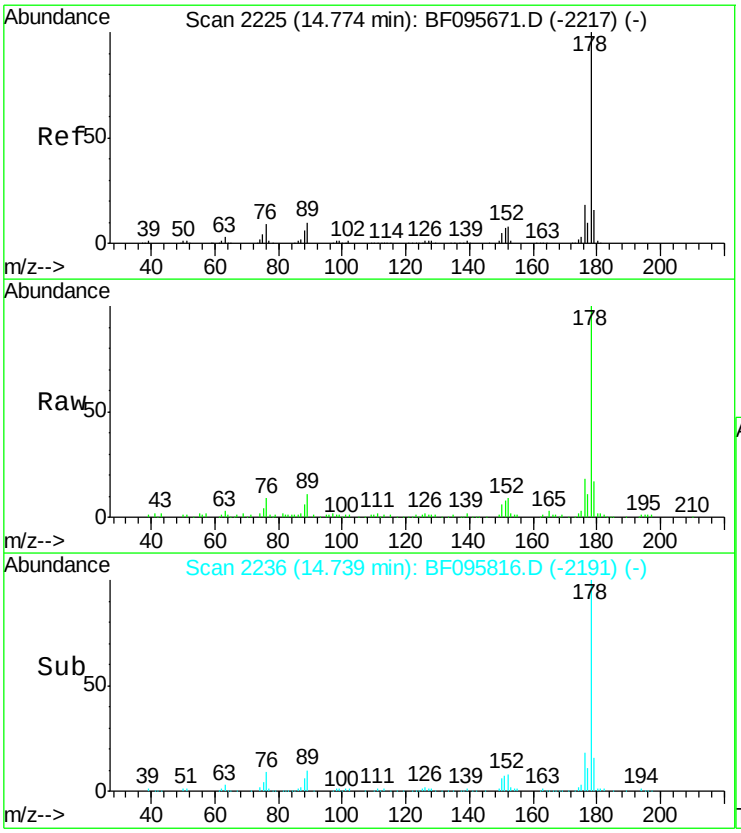

#70
Phenanthrene
Concen: 57.61 ng
RT: 14.66 min Scan# 2222
Delta R.T. -0.03 min
Lab File: BF095816.D
Acq: 9 Jun 2017 12:15

**Instrument :**
BNA_F
**ClientSampleId :**
S-15

Tgt Ion:178 Resp: 705903

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.4 | 16.2 | 24.4 |
| 179 | 15.0 | 12.6 | 19.0 |

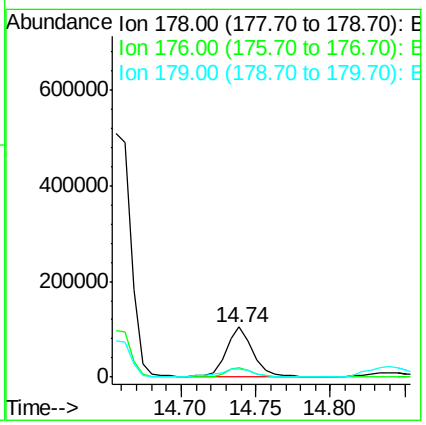


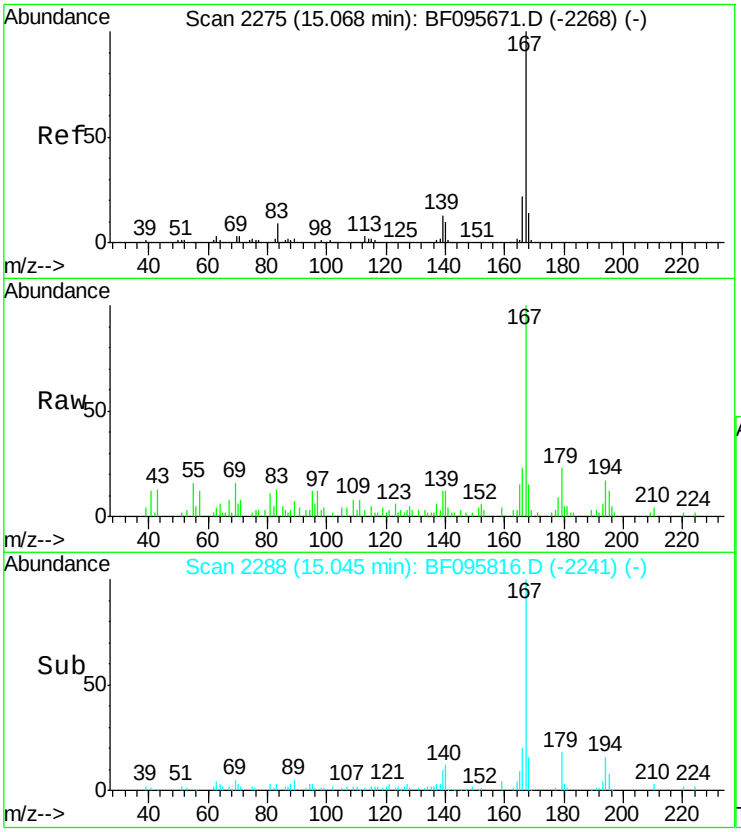




#71
Anthracene
Concen: 10.15 ng
RT: 14.74 min Scan# 2236
Delta R.T. -0.04 min
Lab File: BF095816.D
Acq: 9 Jun 2017 12:15

Tgt Ion:178 Resp: 129844

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.4 | 15.8 | 23.8 |
| 179 | 16.7 | 12.7 | 19.1 |



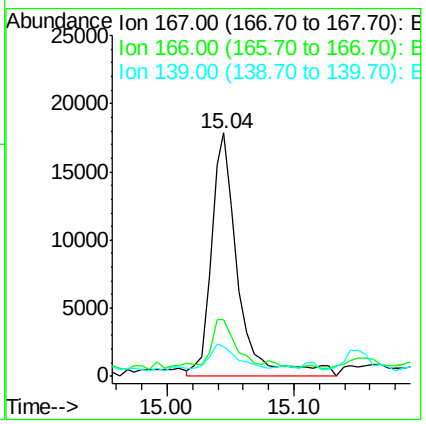


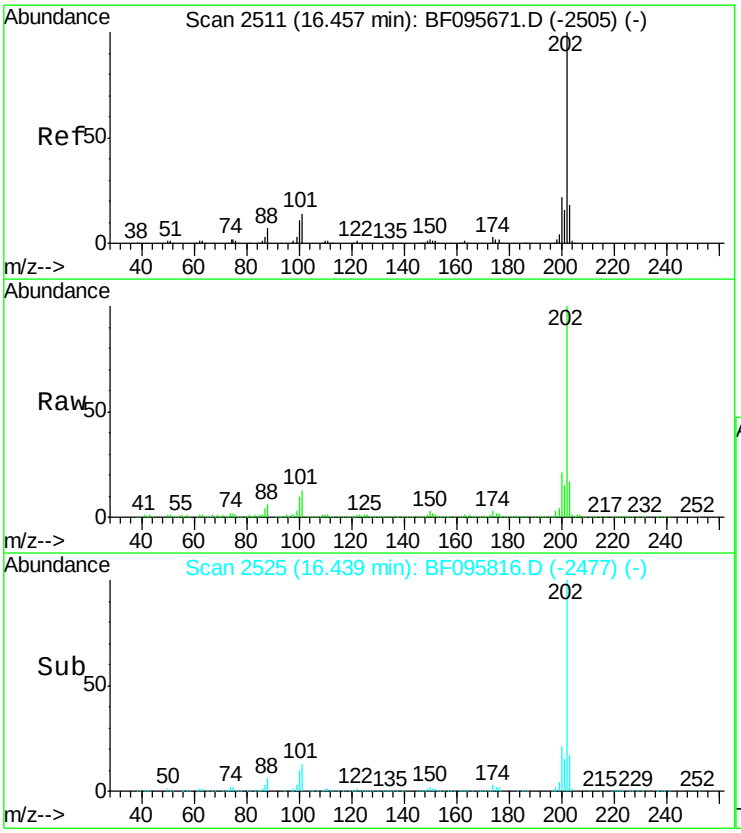

#72
Carbazole
Concen: 2.11 ng
RT: 15.04 min Scan# 2288
Delta R.T. -0.02 min
Lab File: BF095816.D
Acq: 9 Jun 2017 12:15

**Instrument :**
BNA_F
**ClientSampleId :**
S-15

Tgt Ion:167 Resp: 26260

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 23.4 | 18.1 | 27.1 |
| 139 | 12.0 | 11.7 | 17.5 |

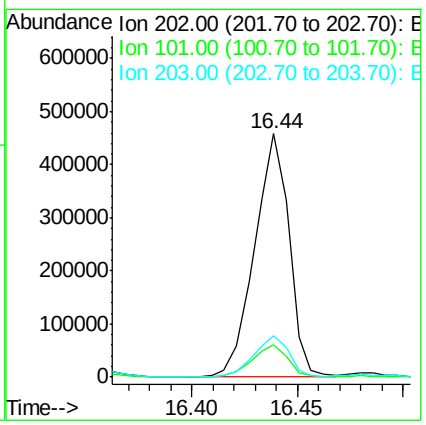


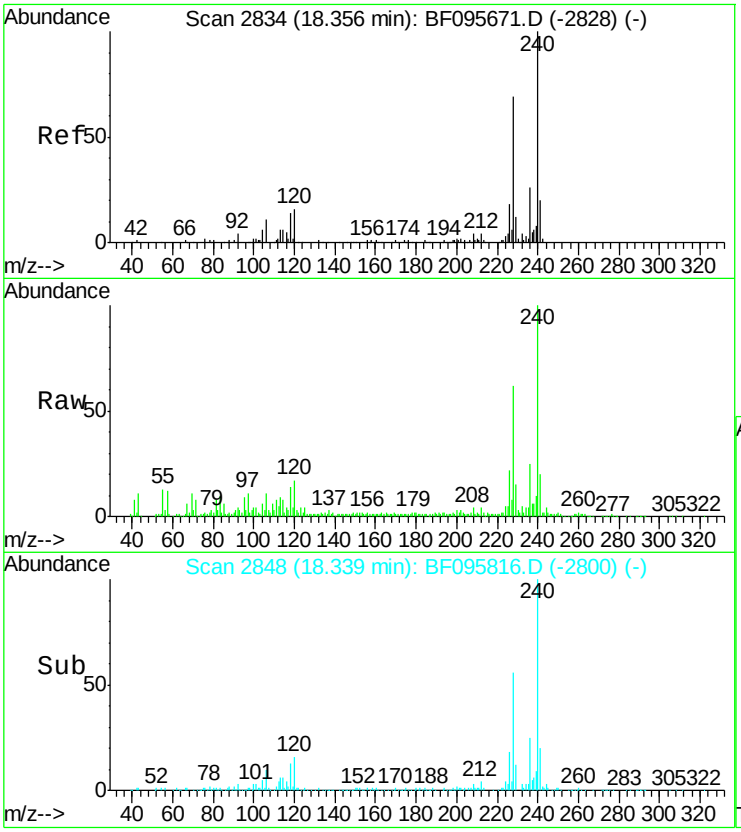




#74
Fluoranthene
Concen: 42.70 ng
RT: 16.44 min Scan# 2525
Delta R.T. -0.02 min
Lab File: BF095816.D
Acq: 9 Jun 2017 12:15

Tgt Ion:202 Resp: 517899

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 13.3 | 0.0 | 33.2 |
| 203 | 17.2 | 0.0 | 38.1 |



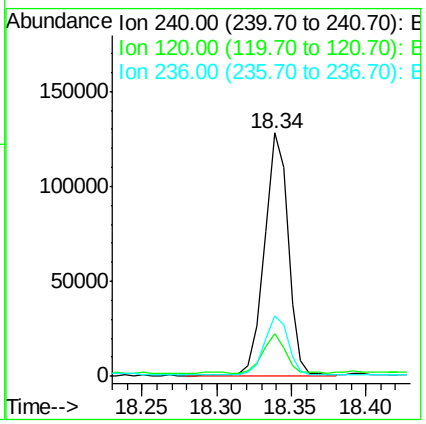


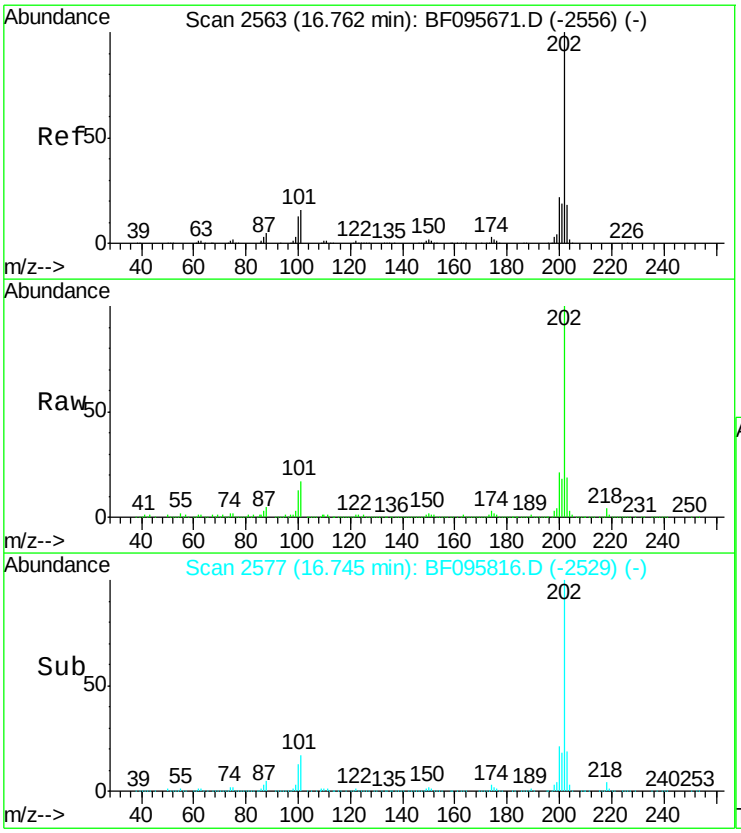

#75
Chrysene-d12
Concen: 20.00 ng
RT: 18.34 min Scan# 2848
Delta R.T. -0.02 min
Lab File: BF095816.D
Acq: 9 Jun 2017 12:15

**Instrument :**
BNA_F
**ClientSampleId :**
S-15

Tgt Ion:240 Resp: 139331

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 17.3 | 5.8 | 8.8# |
| 236 | 25.1 | 20.5 | 30.7 |

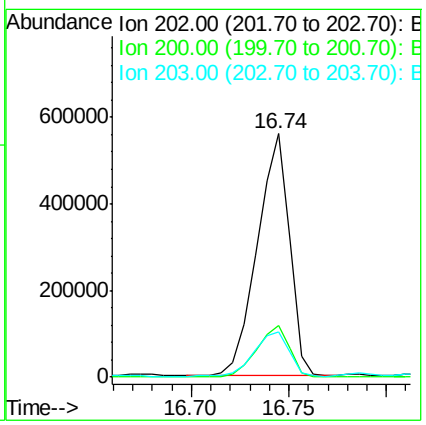


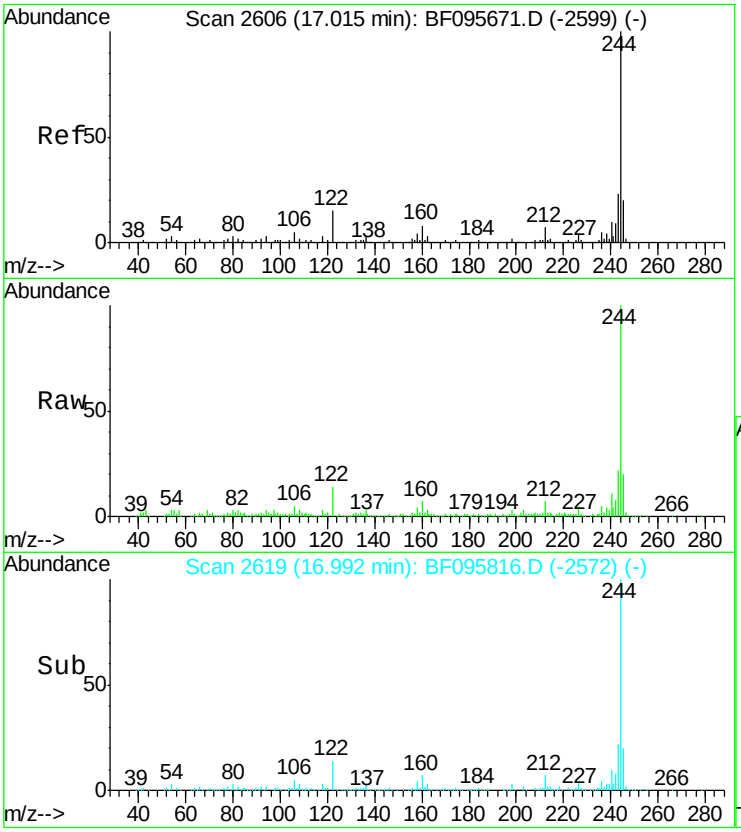




#77
Pyrene
Concen: 61.62 ng
RT: 16.74 min Scan# 2577
Delta R.T. -0.02 min
Lab File: BF095816.D
Acq: 9 Jun 2017 12:15

Tgt Ion:202 Resp: 640629

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.2 | 17.6 | 26.4 |
| 203 | 18.7 | 14.4 | 21.6 |



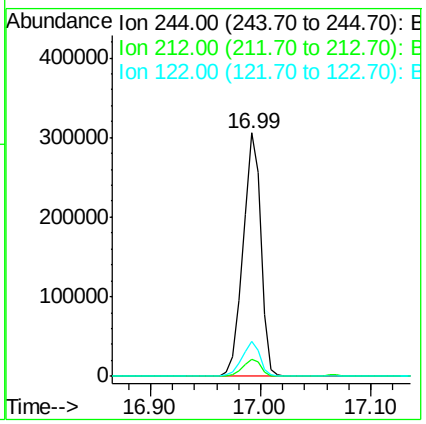


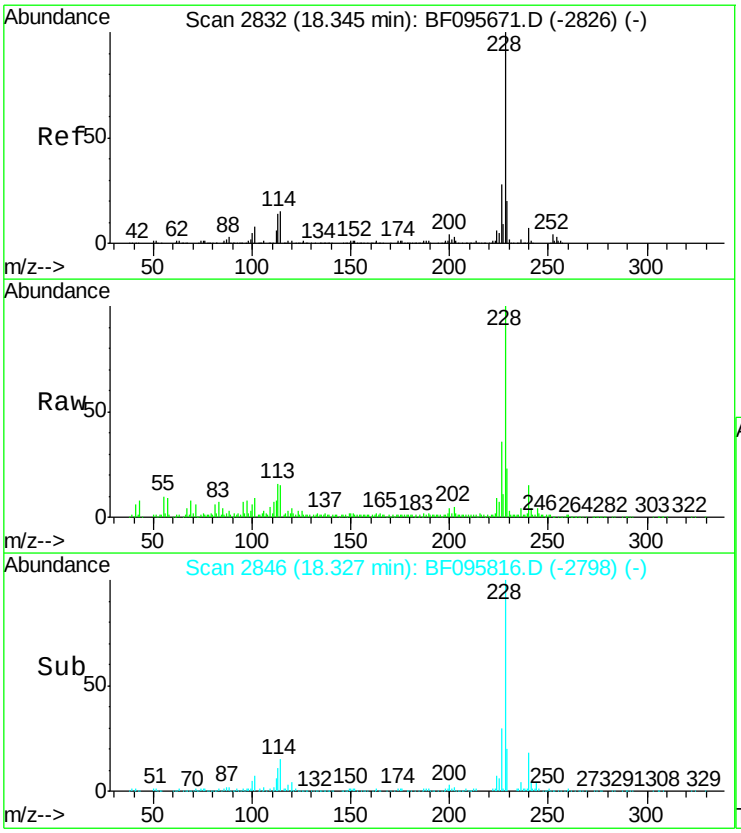

#78
Terphenyl-d14
Concen: 62.06 ng
RT: 16.99 min Scan# 2619
Delta R.T. -0.02 min
Lab File: BF095816.D
Acq: 9 Jun 2017 12:15

**Instrument :**
BNA_F
**ClientSampleId :**
S-15

Tgt Ion:244 Resp: 348397

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 7.2 | 6.0 | 9.0 |
| 122 | 14.4 | 10.3 | 15.5 |

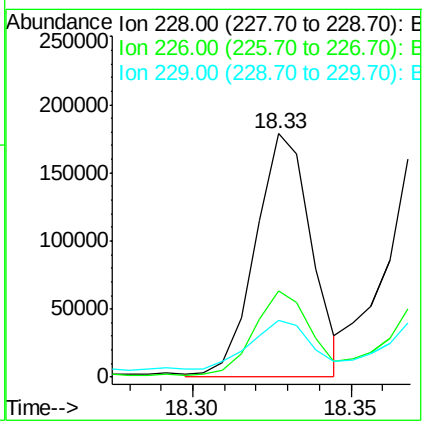


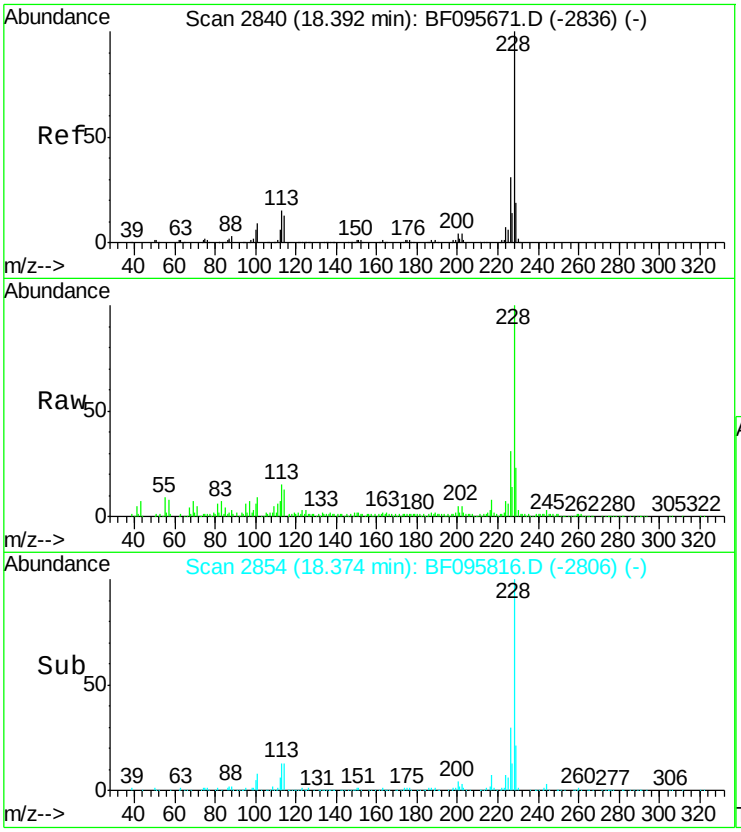




#80
Benzo(a)anthracene
Concen: 27.15 ng m
RT: 18.33 min Scan# 2846
Delta R.T. -0.02 min
Lab File: BF095816.D
Acq: 9 Jun 2017 12:15

Tgt Ion:228 Resp: 219957

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 35.6 | 22.6 | 33.8# |
| 229 | 23.5 | 16.3 | 24.5 |



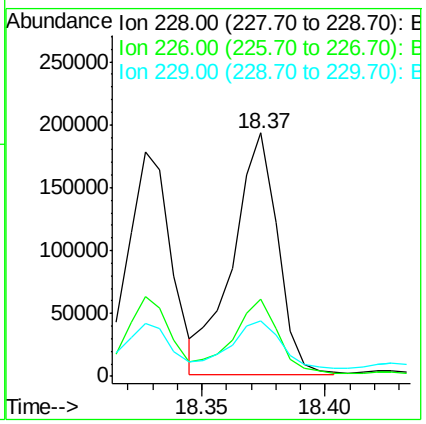


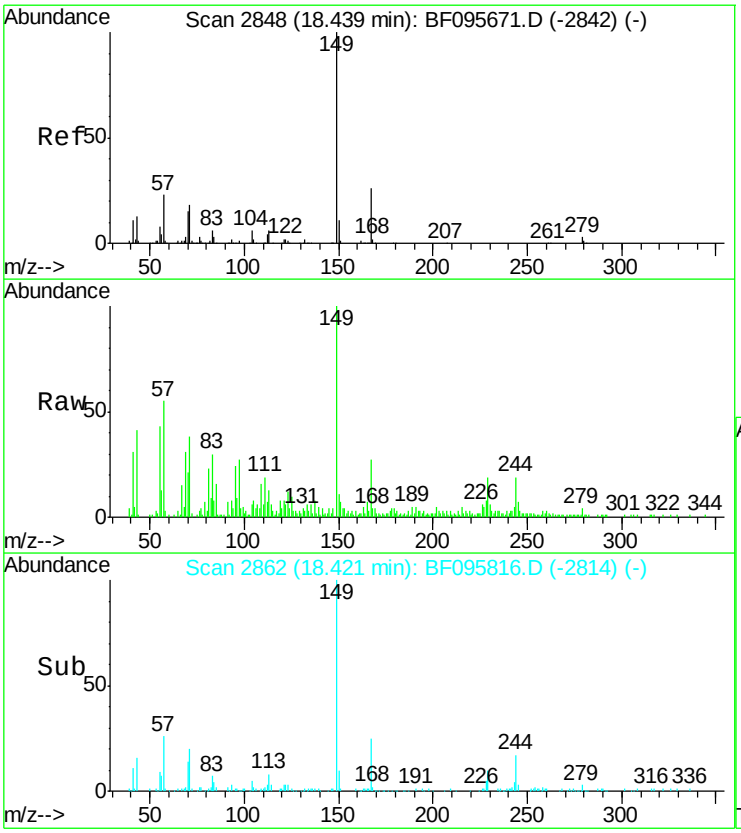

#82
Chrysene
Concen: 30.19 ng m
RT: 18.37 min Scan# 2854
Delta R.T. -0.02 min
Lab File: BF095816.D
Acq: 9 Jun 2017 12:15

**Instrument :**
BNA_F
**ClientSampleId :**
S-15

Tgt Ion:228 Resp: 244403

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 31.5 | 24.9 | 37.3 |
| 229 | 22.8 | 15.8 | 23.6 |

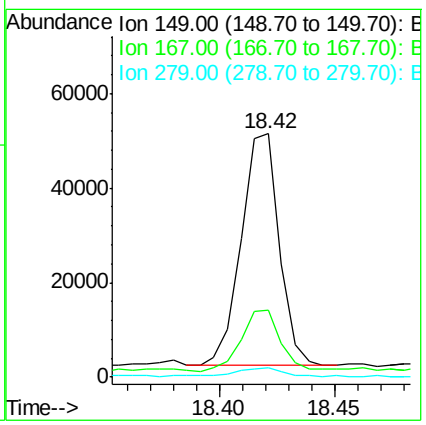


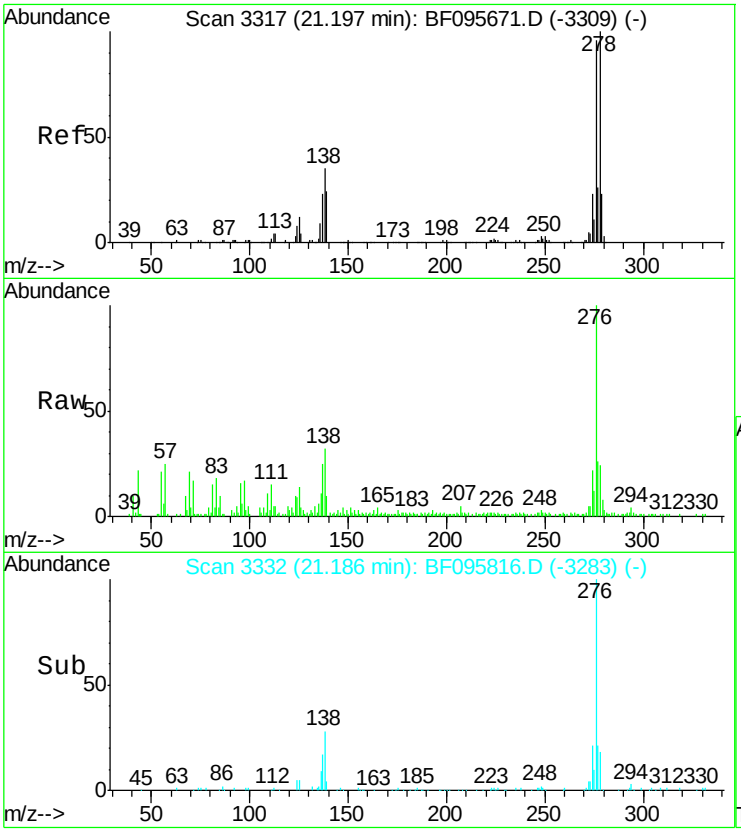




#83
Bis(2-ethylhexyl)phthalate
Concen: 8.83 ng
RT: 18.42 min Scan# 2862
Delta R.T. -0.02 min
Lab File: BF095816.D
Acq: 9 Jun 2017 12:15

Tgt Ion:149 Resp: 56584

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 27.4 | 21.0 | 31.4 |
| 279 | 3.7 | 1.9 | 2.9# |



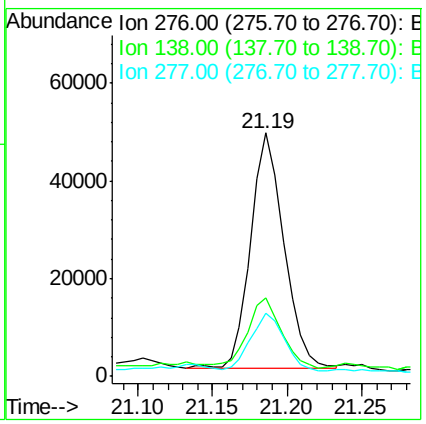


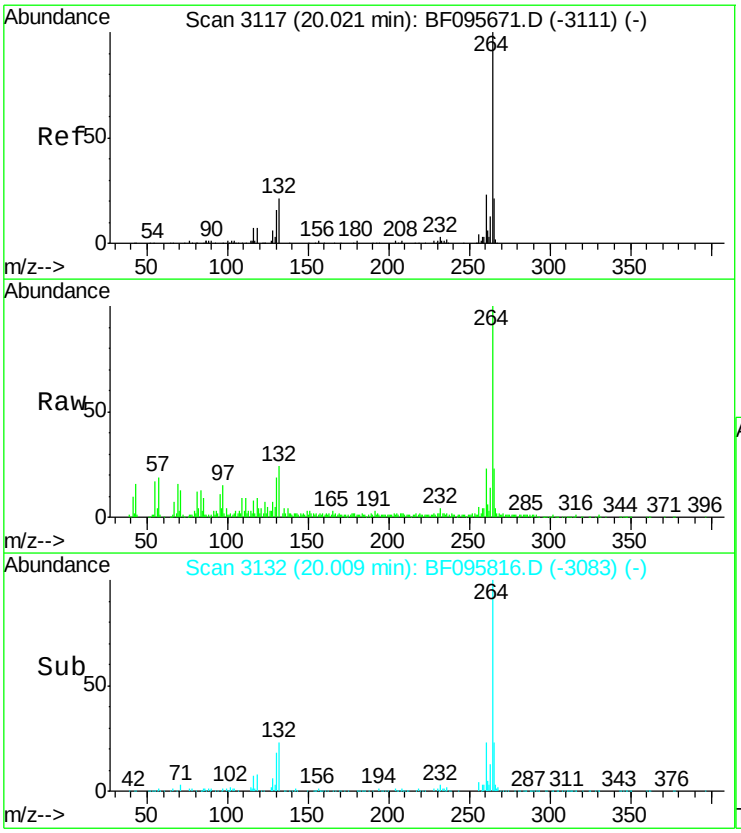

#85
Indeno(1,2,3-cd)pyrene
Concen: 10.68 ng
RT: 21.19 min Scan# 3332
Delta R.T. -0.01 min
Lab File: BF095816.D
Acq: 9 Jun 2017 12:15

**Instrument :**
BNA_F
**ClientSampleId :**
S-15

Tgt Ion:276 Resp: 74007

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 32.2 | 27.8 | 41.6 |
| 277 | 26.0 | 20.2 | 30.4 |

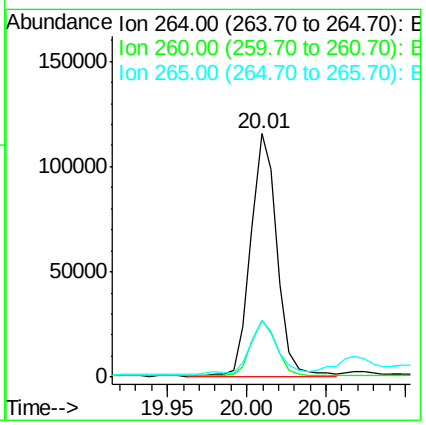


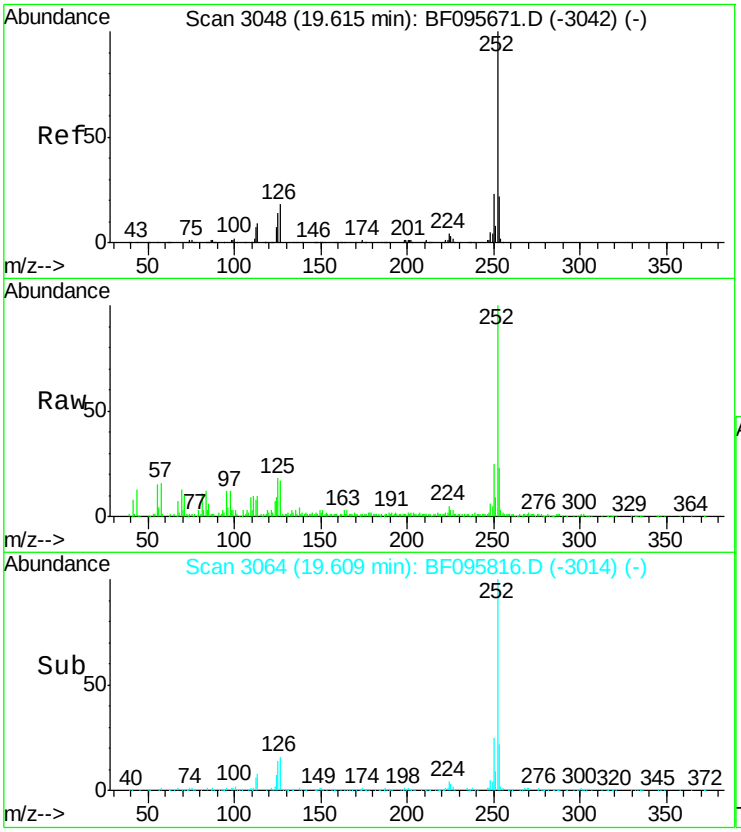




#86
Perylene-d12
Concen: 20.00 ng
RT: 20.01 min Scan# 3132
Delta R.T. -0.01 min
Lab File: BF095816.D
Acq: 9 Jun 2017 12:15

Tgt Ion:264 Resp: 132959

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 23.3 | 19.5 | 29.3 |
| 265 | 23.4 | 17.2 | 25.8 |



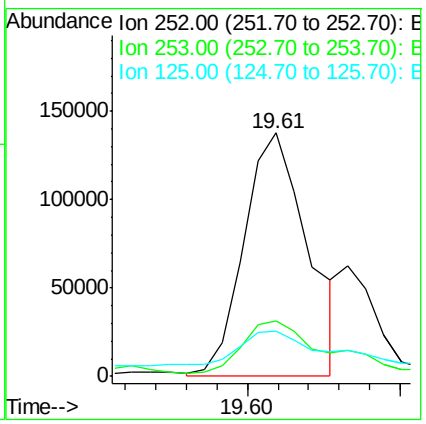


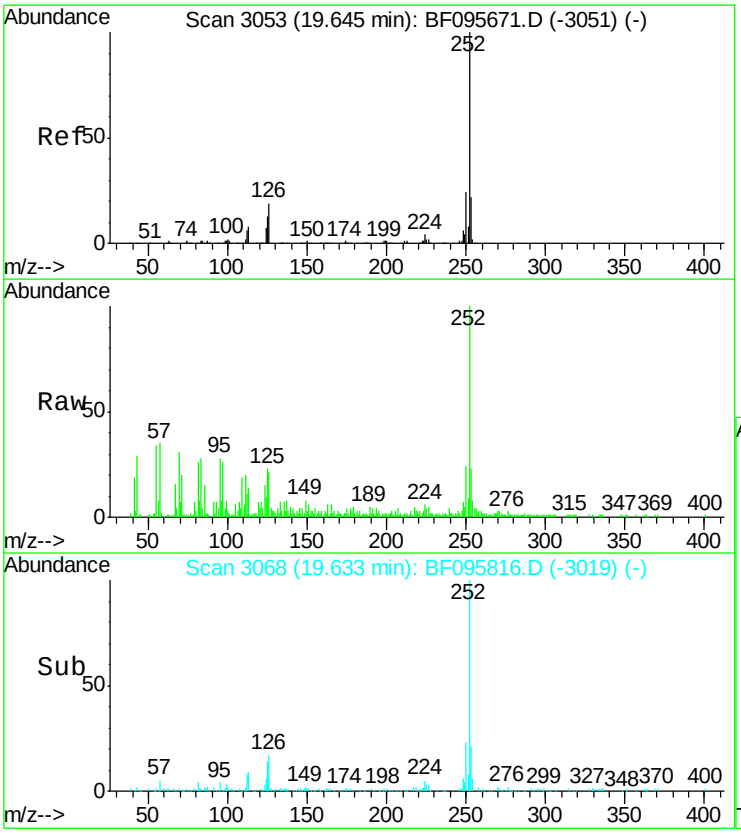

#87
Benzo(b)fluoranthene
Concen: 24.10 ng m
RT: 19.61 min Scan# 3064
Delta R.T. -0.01 min
Lab File: BF095816.D
Acq: 9 Jun 2017 12:15

**Instrument :**
BNA_F
**ClientSampleId :**
S-15

Tgt Ion:252 Resp: 200681

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.7 | 18.1 | 27.1 |
| 125 | 18.5 | 9.8 | 14.8# |

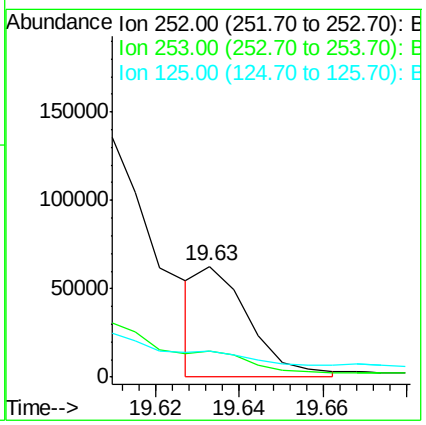


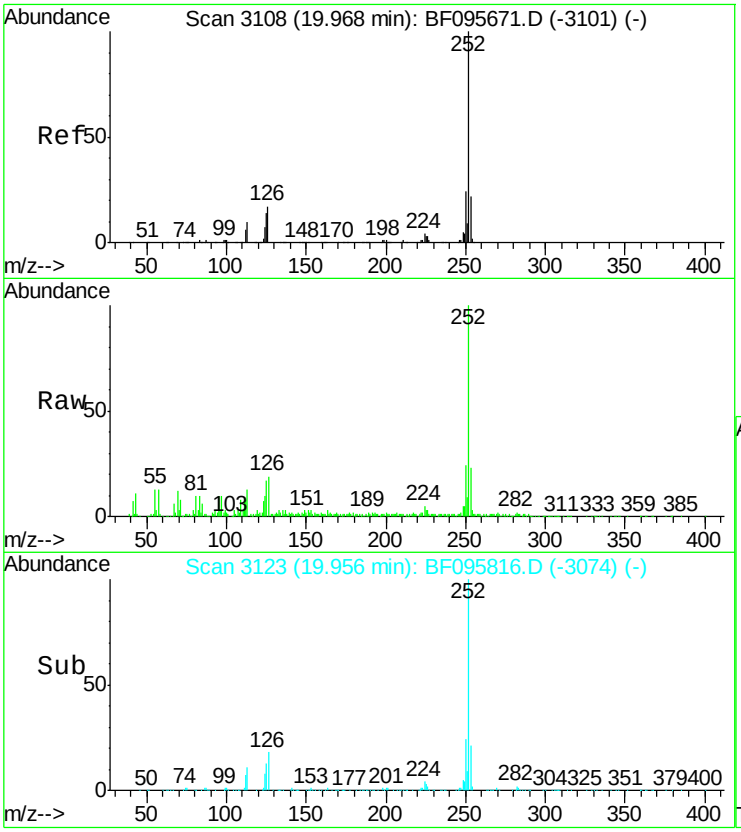




#88
Benzo(k)fluoranthene
Concen: 6.74 ng m
RT: 19.63 min Scan# 3068
Delta R.T. -0.01 min
Lab File: BF095816.D
Acq: 9 Jun 2017 12:15

Tgt Ion:252 Resp: 53596

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.9 | 18.4 | 27.6 |
| 125 | 23.2 | 13.1 | 19.7# |



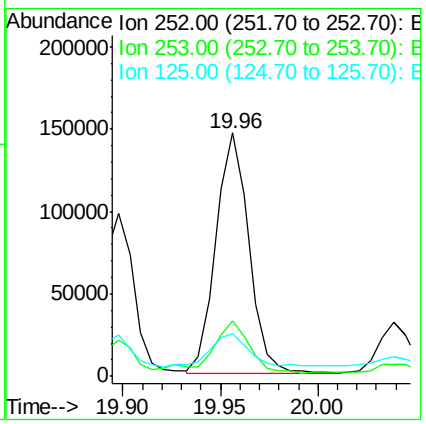


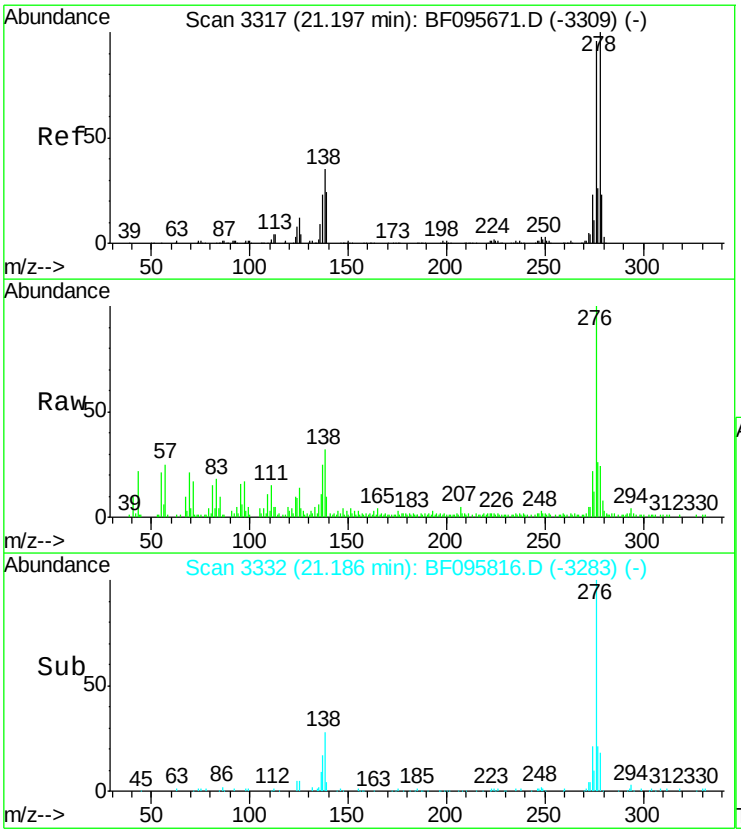

#89
Benzo(a)pyrene
Concen: 22.54 ng
RT: 19.96 min Scan# 3123
Delta R.T. -0.01 min
Lab File: BF095816.D
Acq: 9 Jun 2017 12:15

**Instrument :**
BNA_F
**ClientSampleId :**
S-15

Tgt Ion:252 Resp: 172466

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.8 | 17.5 | 26.3 |
| 125 | 17.3 | 11.0 | 16.4# |

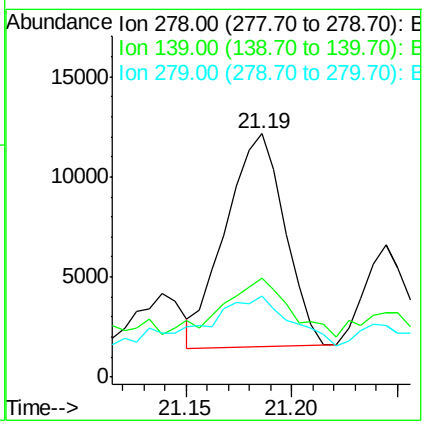


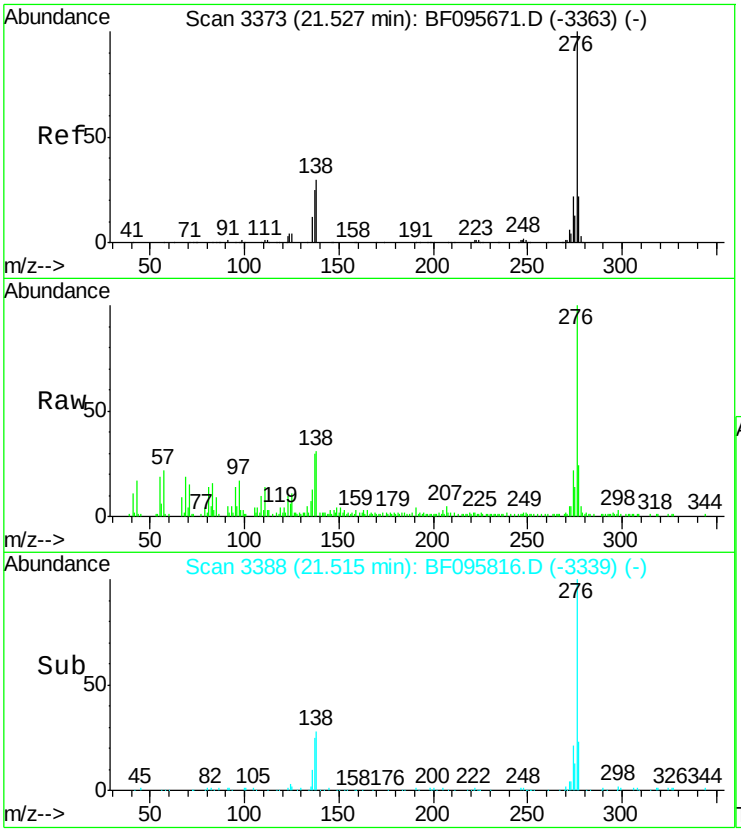




#90
Dibenzo(a,h)anthracene
Concen: 3.19 ng
RT: 21.19 min Scan# 3332
Delta R.T. -0.01 min
Lab File: BF095816.D
Acq: 9 Jun 2017 12:15

Tgt Ion:278 Resp: 20686

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 40.7 | 16.6 | 24.8# |
| 279 | 33.4 | 19.3 | 28.9# |






#91
Benzo(g,h,i)perylene
Concen: 11.75 ng
RT: 21.52 min Scan# 3388
Delta R.T. -0.01 min
Lab File: BF095816.D
Acq: 9 Jun 2017 12:15

**Instrument :**
BNA_F
**ClientSampleId :**
S-15

Tgt Ion:276 Resp: 77764

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 23.8 | 18.6 | 28.0 |
| 138 | 30.9 | 25.4 | 38.0 |