Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA F\DATA\BF121816\
Data File : BF091769.D
Acq On : 19 Dec 2016 7:09
Operator : UM/SJ
Sample : H5977-04DL 2X
Misc :
ALS Vial : 56 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** T-4DL

Quant Time: Dec 19 07:40:42 2016
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Dec 17 22:53:54 2016
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 6.77 | 152 | 225065 | 20.00 | ng | | 0.00 |
| 21) Naphthalene-d8 | 8.05 | 136 | 753478 | 20.00 | ng | | -0.01 |
| 38) Acenaphthene-d10 | 9.81 | 164 | 333592 | 20.00 | ng | | 0.00 |
| 63) Phenanthrene-d10 | 11.30 | 188 | 508300 | 20.00 | ng | | 0.01 |
| 75) Chrysene-d12 | 13.92 | 240 | 484825 | 20.00 | ng | | -0.01 |
| 86) Perylene-d12 | 15.32 | 264 | 519612 | 20.00 | ng | | -0.01 |
| **System Monitoring Compounds** | | | | | | | |
| 5) 2-Fluorophenol | 5.37 | 112 | 759884 | 56.57 | ng | | 0.00 |
| 7) Phenol-d6 | 6.41 | 99 | 857105 | 52.32 | ng | | -0.01 |
| 23) Nitrobenzene-d5 | 7.33 | 82 | 611676 | 46.81 | ng | | -0.01 |
| 41) 2,4,6-Tribromophenol | 10.60 | 330 | 124495 | 44.01 | ng | | 0.00 |
| 44) 2-Fluorobiphenyl | 9.14 | 172 | 861504 | 51.88 | ng | | 0.00 |
| 78) Terphenyl-d14 | 12.88 | 244 | 648460 | 33.77 | ng | | 0.00 |
| **Target Compounds** | | | | | | | Qvalue |
| 10) Phenol | 6.42 | 94 | 51832 | 2.81 | ng | | 80 |
| 37) 2-Methylnaphthalene | 8.77 | 142 | 713459 | 31.44 | ng | | 98 |
| 45) 1,1'-Biphenyl | 9.24 | 154 | 91393 | 3.82 | ng | | 98 |
| 49) Dimethylphthalate | 9.54 | 163 | 88292 | 4.05 | ng | # | 71 |
| 51) Acenaphthene | 9.85 | 154 | 138147 | 7.27 | ng | # | 83 |
| 70) Phenanthrene | 11.32 | 178 | 681781 | 26.84 | ng | | 96 |
| 74) Fluoranthene | 12.50 | 202 | 131063 | 4.94 | ng | | 96 |
| 77) Pyrene | 12.73 | 202 | 280868 | 8.02 | ng | | 97 |
| 80) Benzo(a)anthracene | 13.91 | 228 | 64650 | 2.33 | ng | # | 93 |

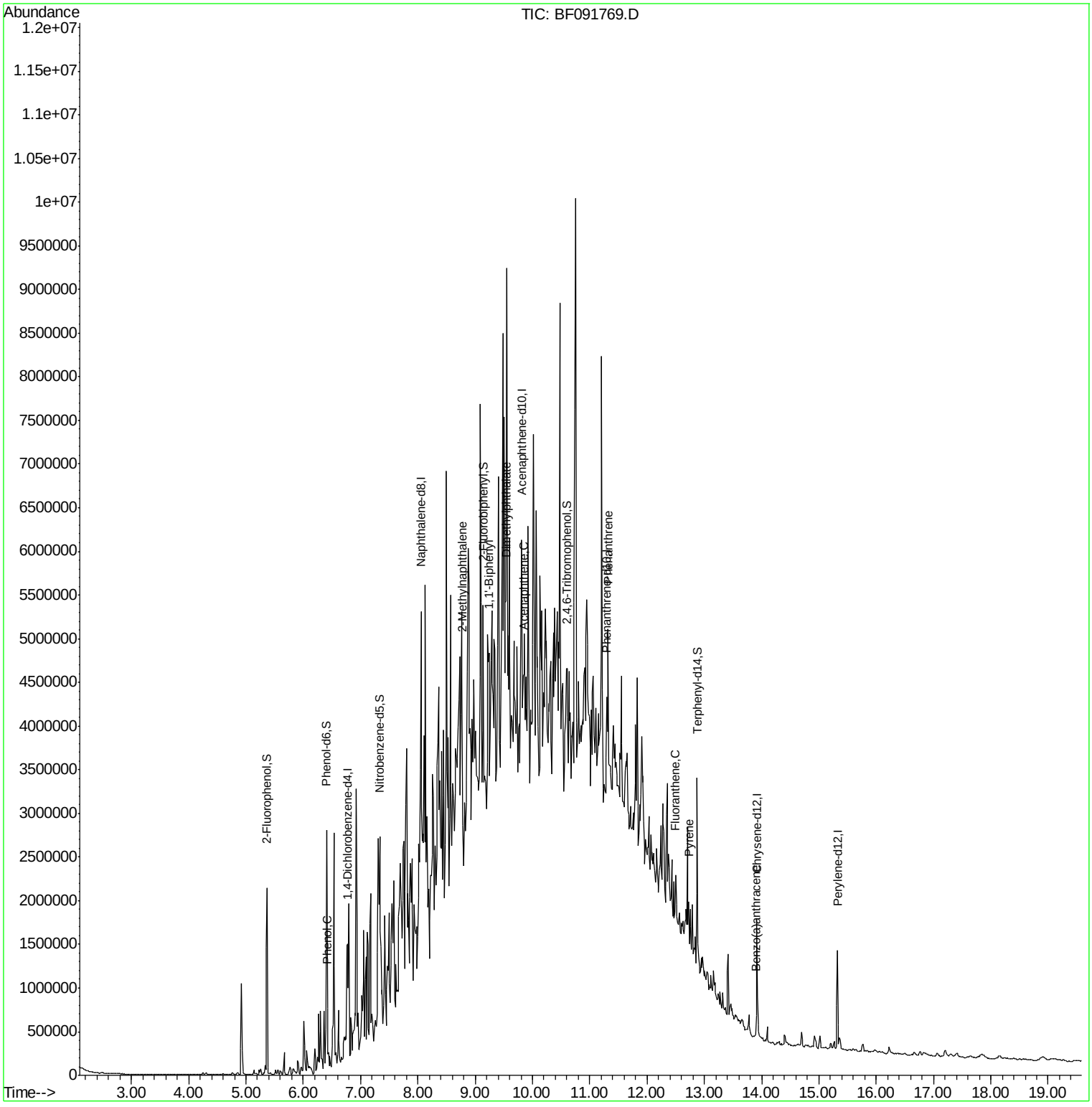
(#) = qualifier out of range (m) = manual integration (+) = signals summed

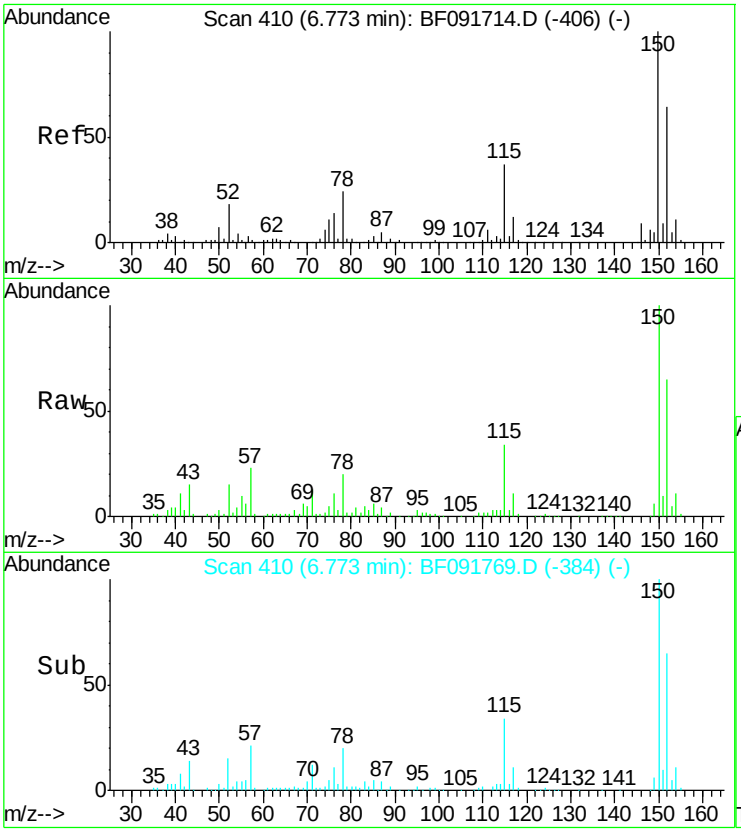
Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA F\DATA\BF121816\
Data File : BF091769.D
Acq On : 19 Dec 2016 7:09
Operator : UM/SJ
Sample : H5977-04DL 2X
Misc :
ALS Vial : 56 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
T-4DL

Quant Time: Dec 19 07:40:42 2016
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Dec 17 22:53:54 2016
Response via : Initial Calibration



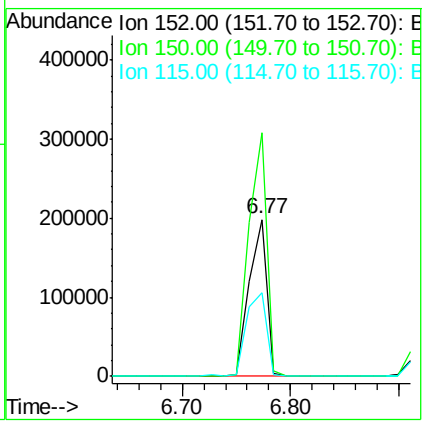


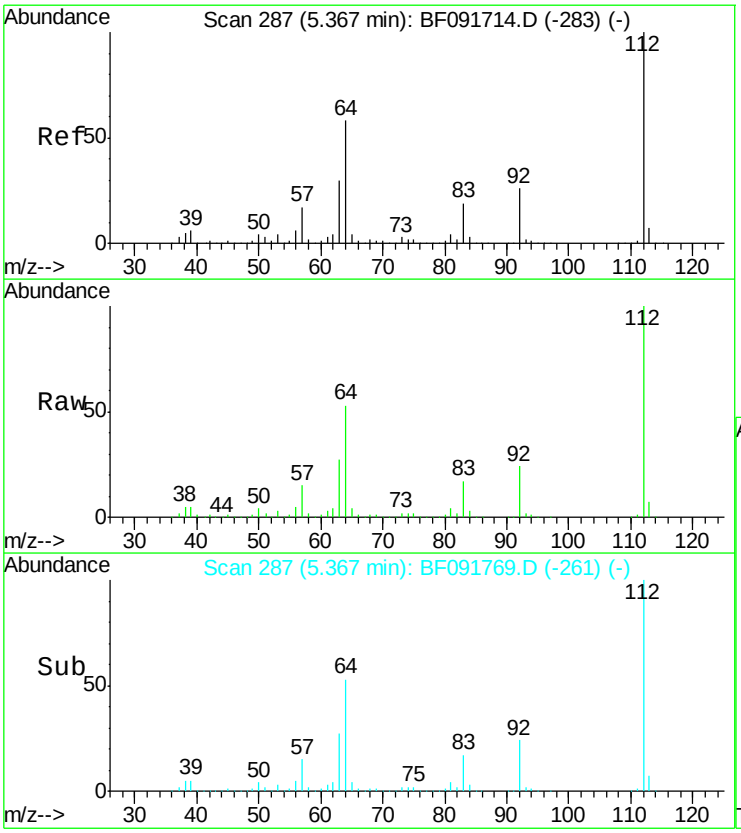

#1
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.77 min Scan# 410
Delta R.T. 0.00 min
Lab File: BF091769.D
Acq: 19 Dec 2016 7:09

**Instrument :**
BNA_F
**ClientSampleId :**
T-4DL

Tgt Ion:152 Resp: 225065

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 154.9 | 124.9 | 187.3 |
| 115 | 53.0 | 46.0 | 69.0 |

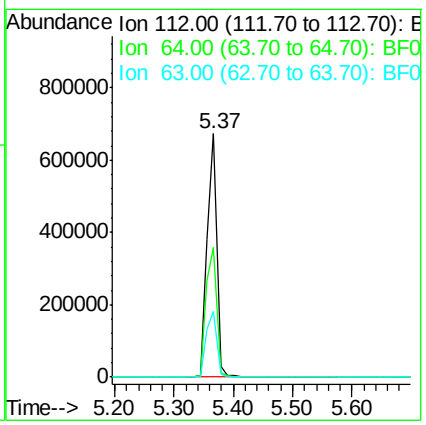


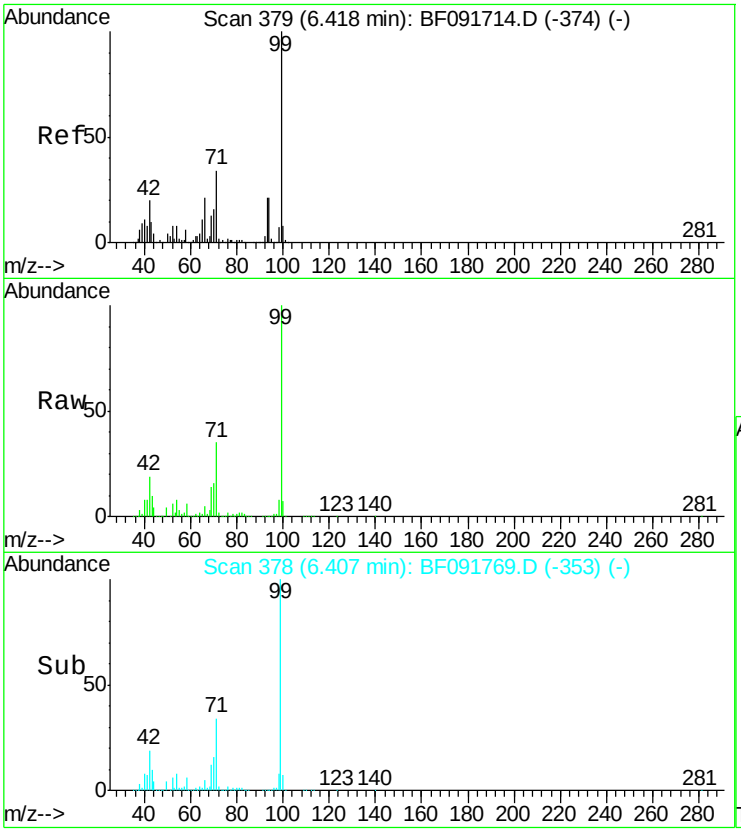




#5
2-Fluorophenol
Concen: 56.57 ng
RT: 5.37 min Scan# 287
Delta R.T. 0.00 min
Lab File: BF091769.D
Acq: 19 Dec 2016 7:09

Tgt Ion:112 Resp: 759884

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 53.2 | 46.1 | 69.1 |
| 63 | 27.0 | 23.8 | 35.6 |



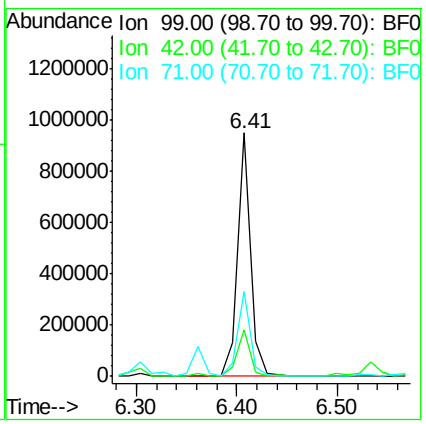


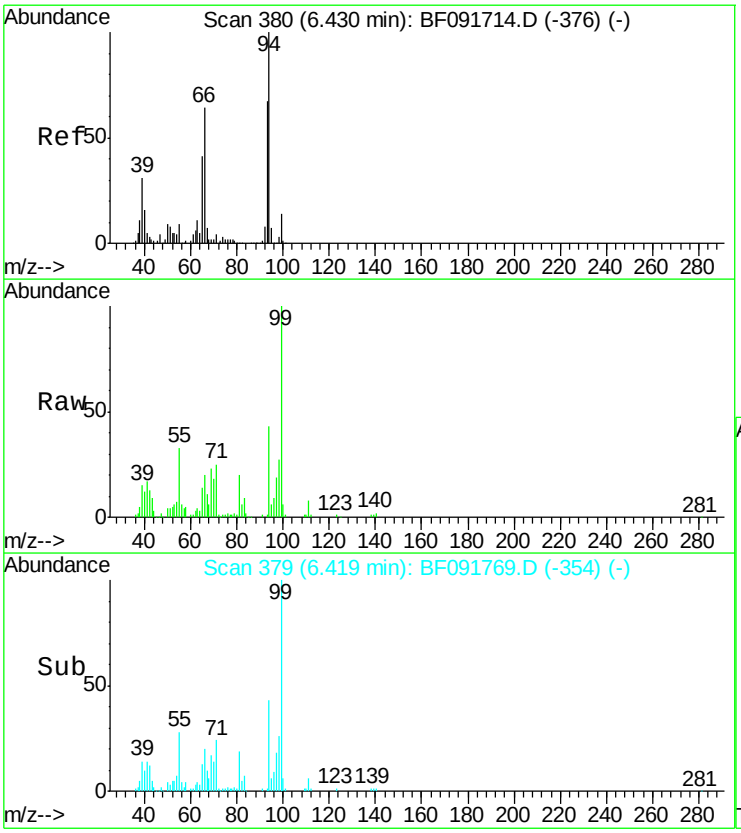

#7
Phenol-d6
Concen: 52.32 ng
RT: 6.41 min Scan# 378
Delta R.T. -0.01 min
Lab File: BF091769.D
Acq: 19 Dec 2016 7:09

**Instrument :**
BNA_F
**ClientSampleId :**
T-4DL

Tgt Ion: 99 Resp: 857105

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 19.4 | 15.6 | 23.4 |
| 71 | 34.6 | 27.5 | 41.3 |

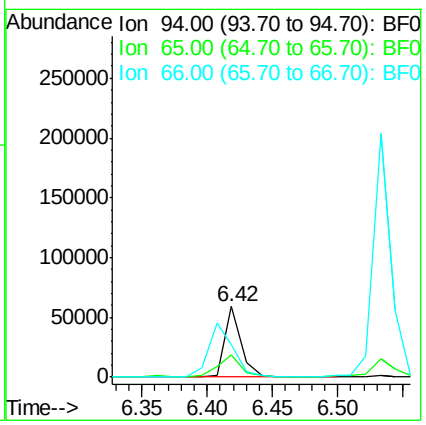


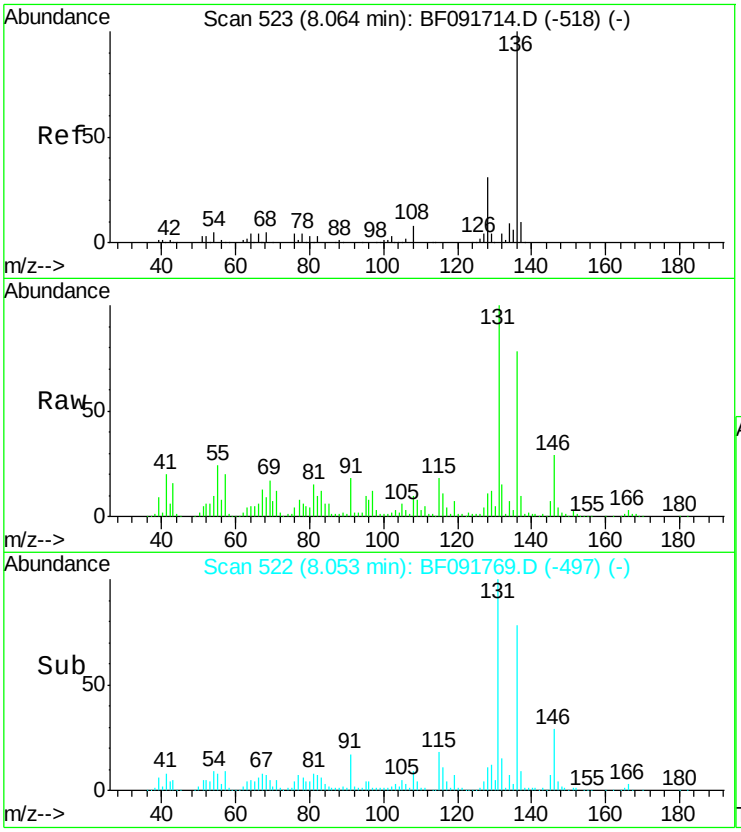




#10
Phenol
Concen: 2.81 ng
RT: 6.42 min Scan# 379
Delta R.T. -0.01 min
Lab File: BF091769.D
Acq: 19 Dec 2016 7:09

Tgt Ion: 94 Resp: 51832

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 65 | 31.8 | 21.4 | 61.4 |
| 66 | 46.0 | 44.0 | 84.0 |



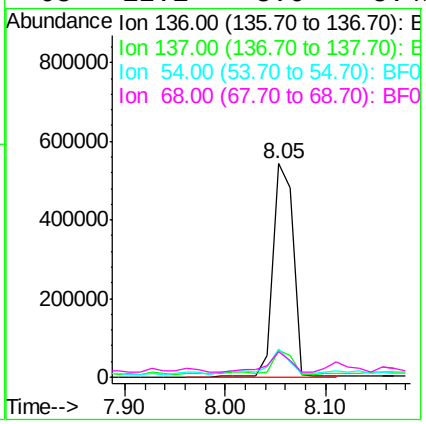


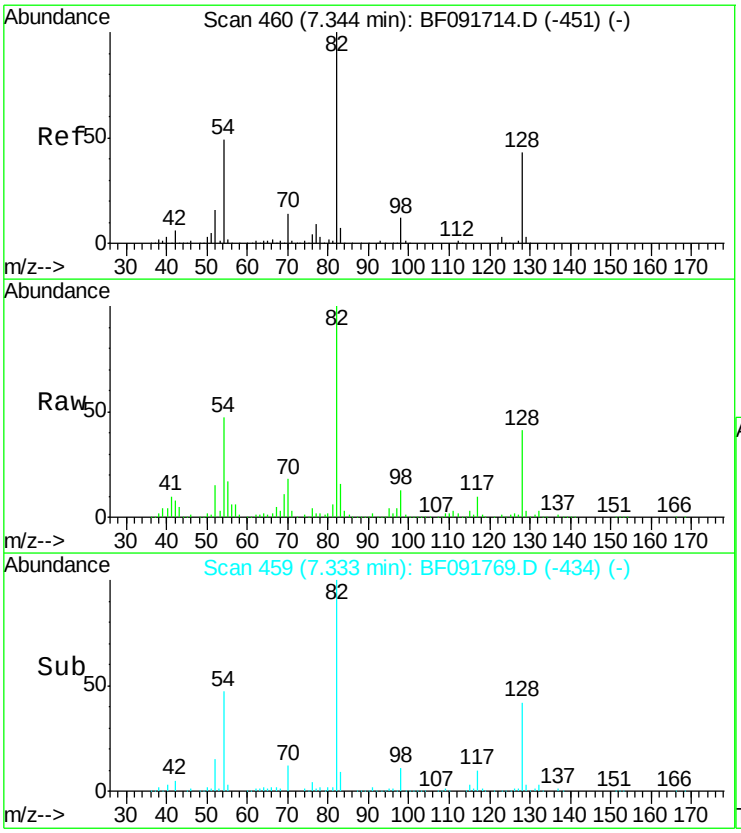

#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.05 min Scan# 522
Delta R.T. -0.01 min
Lab File: BF091769.D
Acq: 19 Dec 2016 7:09

**Instrument :**
BNA_F
**ClientSampleId :**
T-4DL

Tgt Ion:136 Resp: 753478

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 12.5 | 8.4 | 12.6 |
| 54 | 13.3 | 4.5 | 6.7# |
| 68 | 12.1 | 3.6 | 5.4# |

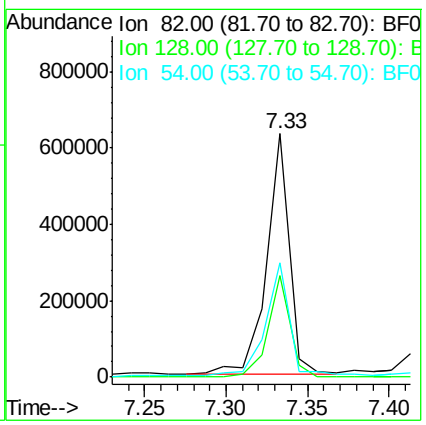


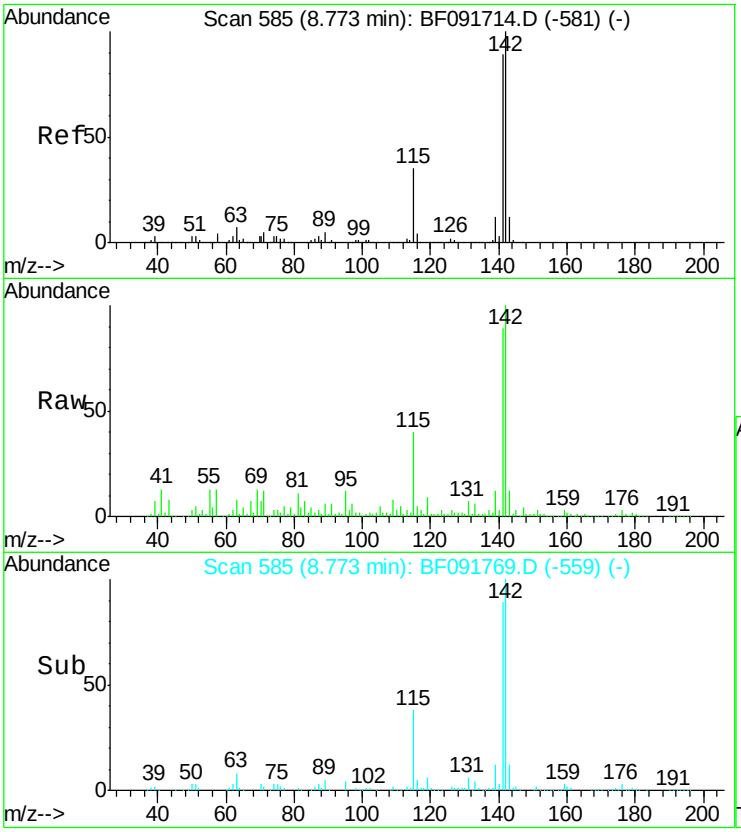




#23
Nitrobenzene-d5
Concen: 46.81 ng
RT: 7.33 min Scan# 459
Delta R.T. -0.01 min
Lab File: BF091769.D
Acq: 19 Dec 2016 7:09

Tgt Ion: 82 Resp: 611676

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 41.4 | 34.6 | 52.0 |
| 54 | 47.2 | 39.5 | 59.3 |



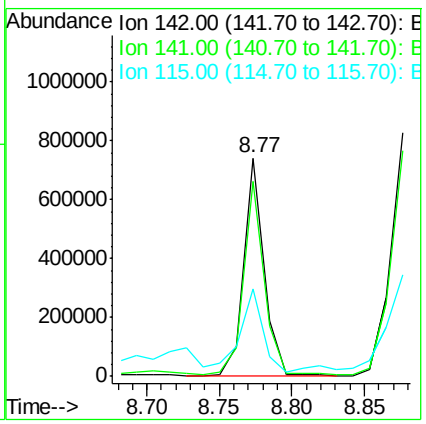


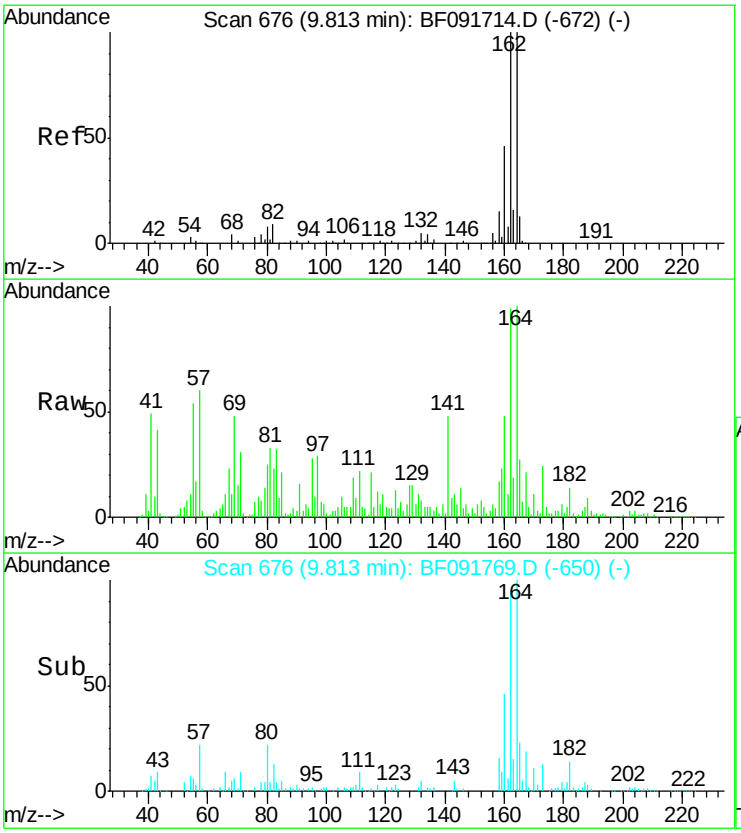

#37
2-Methylnaphthalene
Concen: 31.44 ng
RT: 8.77 min Scan# 585
Delta R.T. 0.00 min
Lab File: BF091769.D
Acq: 19 Dec 2016 7:09

**Instrument :**
BNA_F
**ClientSampleId :**
T-4DL

Tgt Ion:142 Resp: 713459

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 89.2 | 71.0 | 106.6 |
| 115 | 39.8 | 28.3 | 42.5 |

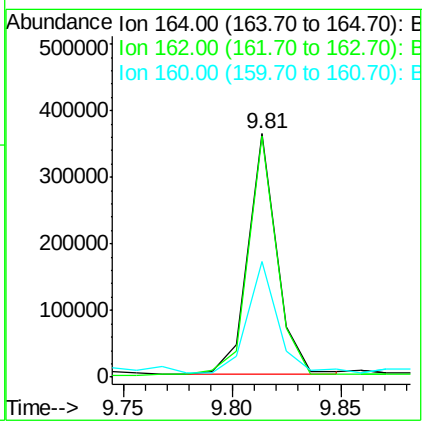


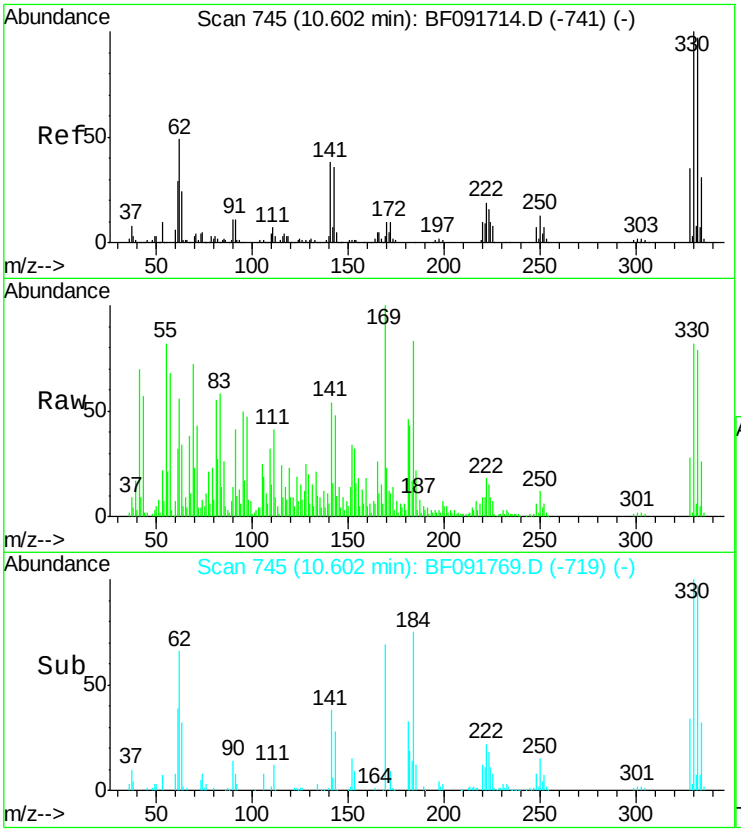




#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.81 min Scan# 676
Delta R.T. 0.00 min
Lab File: BF091769.D
Acq: 19 Dec 2016 7:09

Tgt Ion:164 Resp: 333592

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 98.9 | 80.2 | 120.2 |
| 160 | 47.6 | 36.9 | 55.3 |



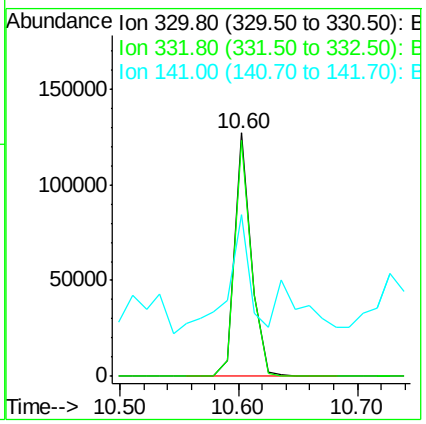


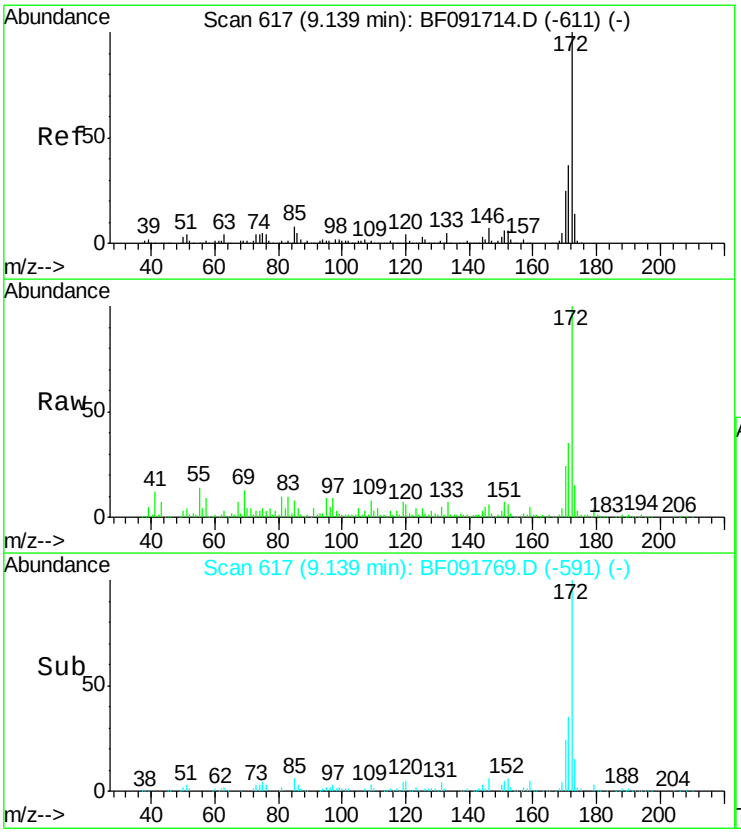

#41
2,4,6-Tribromophenol
Concen: 44.01 ng
RT: 10.60 min Scan# 745
Delta R.T. 0.00 min
Lab File: BF091769.D
Acq: 19 Dec 2016 7:09

**Instrument :**
BNA_F
**ClientSampleId :**
T-4DL

Tgt Ion:330 Resp: 124495

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 97.4 | 77.4 | 116.2 |
| 141 | 50.3 | 34.1 | 51.1 |

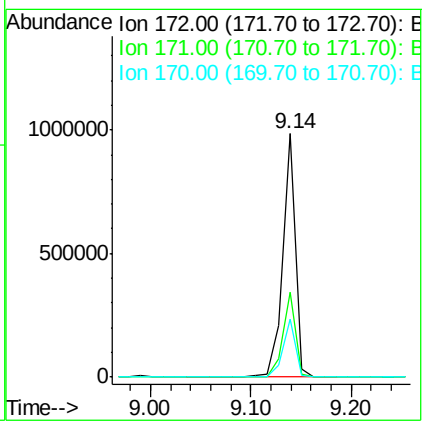


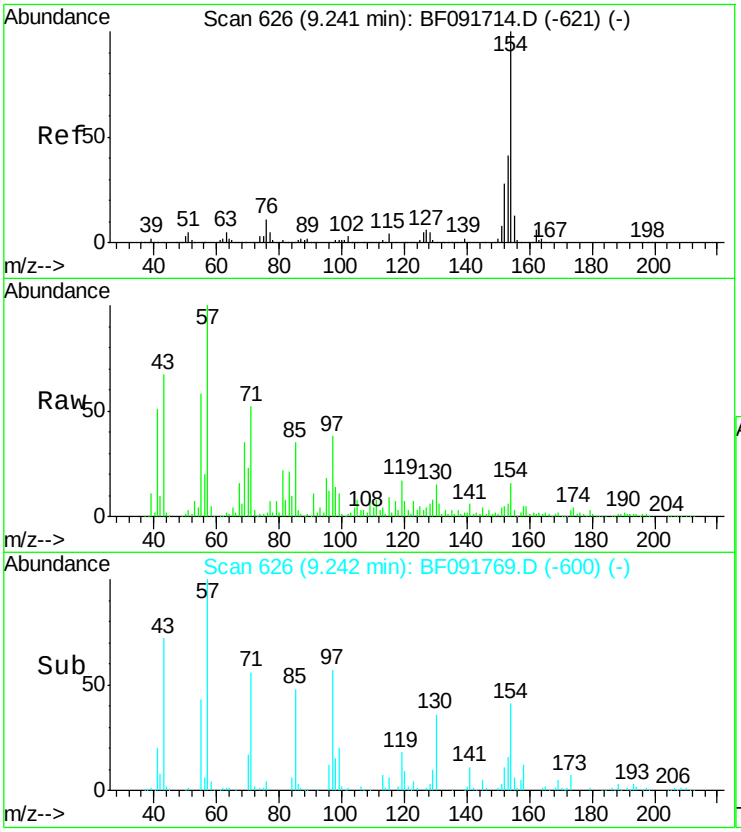




#44
2-Fluorobiphenyl
Concen: 51.88 ng
RT: 9.14 min Scan# 617
Delta R.T. 0.00 min
Lab File: BF091769.D
Acq: 19 Dec 2016 7:09

Tgt Ion:172 Resp: 861504

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.1 | 29.4 | 44.0 |
| 170 | 23.8 | 20.2 | 30.4 |



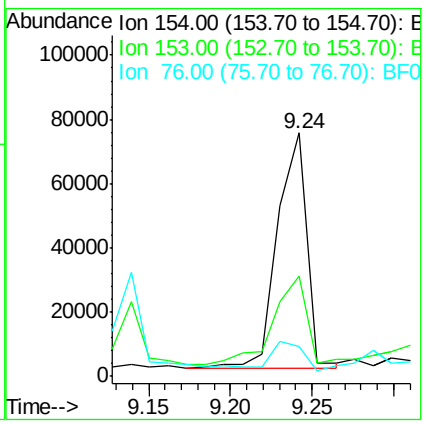


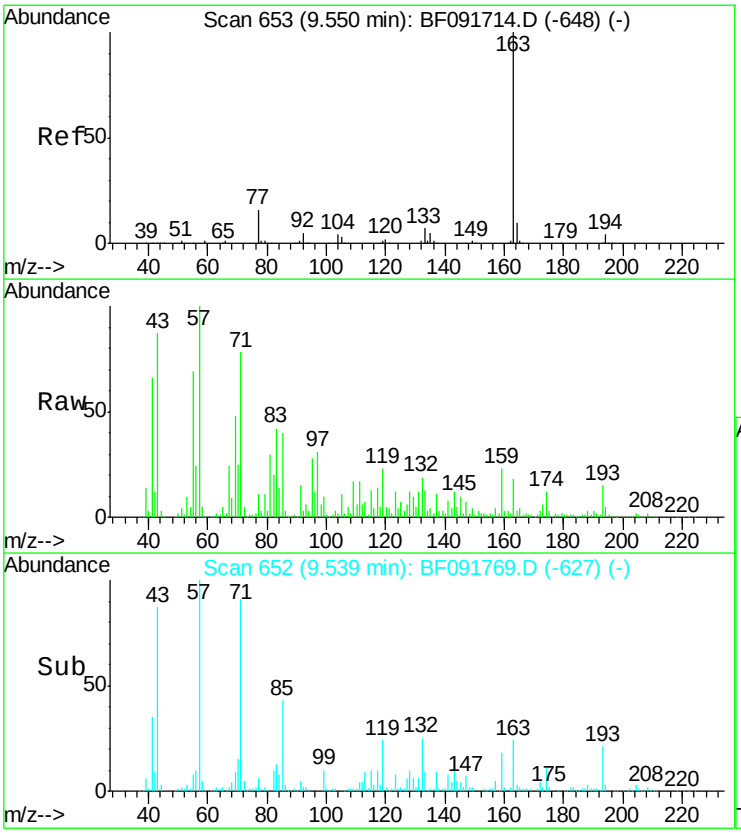

#45
1,1'-Biphenyl
Concen: 3.82 ng
RT: 9.24 min Scan# 626
Delta R.T. 0.00 min
Lab File: BF091769.D
Acq: 19 Dec 2016 7:09

**Instrument :**
BNA_F
**ClientSampleId :**
T-4DL

Tgt Ion:154 Resp: 91393

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 41.4 | 20.9 | 60.9 |
| 76 | 12.2 | 0.0 | 30.5 |

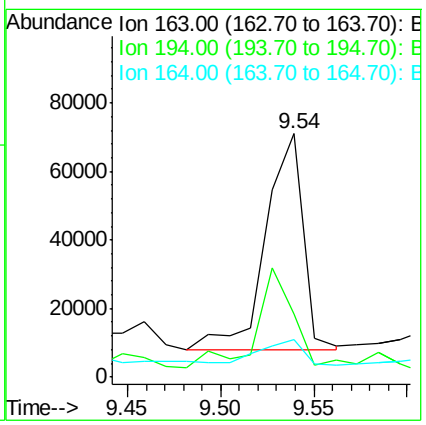


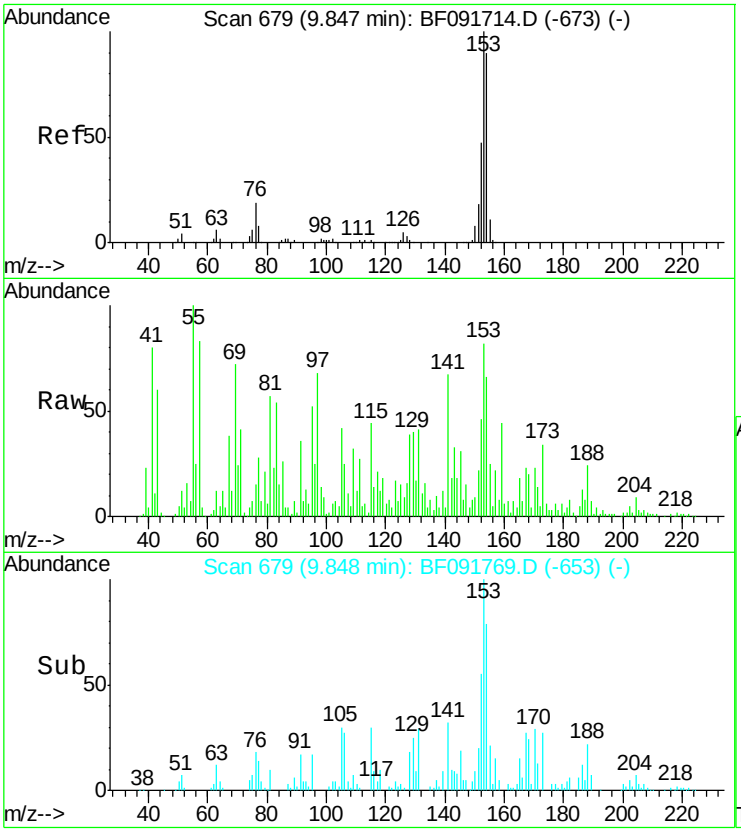




#49
Dimethylphthalate
Concen: 4.05 ng
RT: 9.54 min Scan# 652
Delta R.T. -0.01 min
Lab File: BF091769.D
Acq: 19 Dec 2016 7:09

Tgt Ion:163 Resp: 88292

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 163 | 100 | | |
| 194 | 26.0 | 3.0 | 4.4# |
| 164 | 15.6 | 8.0 | 12.0# |



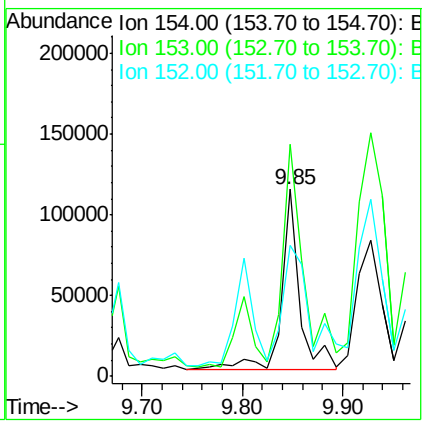


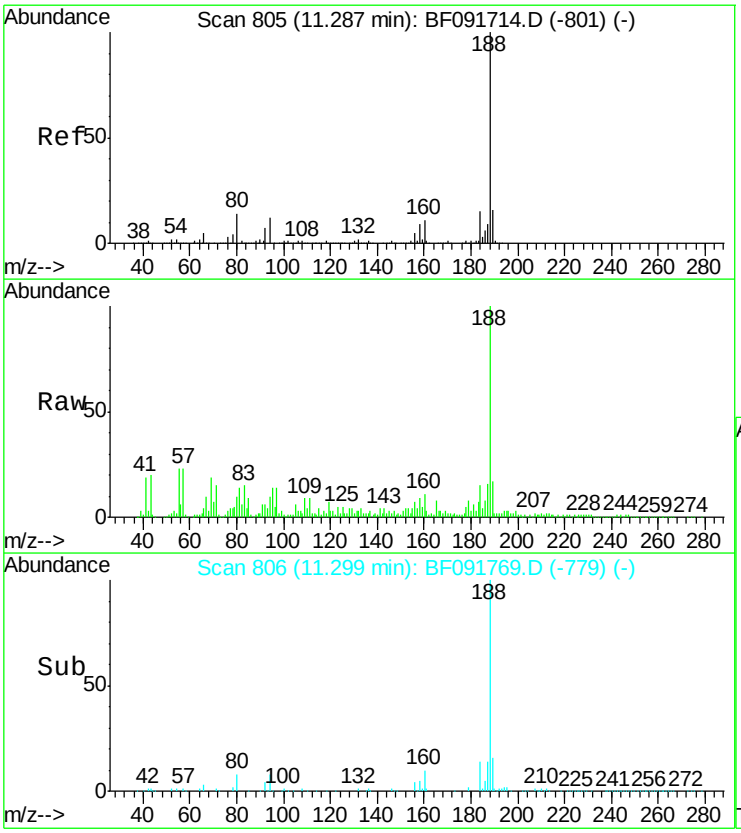

#51
Acenaphthene
Concen: 7.27 ng
RT: 9.85 min Scan# 679
Delta R.T. 0.00 min
Lab File: BF091769.D
Acq: 19 Dec 2016 7:09

**Instrument :**
BNA_F
**ClientSampleId :**
T-4DL

Tgt Ion:154 Resp: 138147

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 124.1 | 88.6 | 133.0 |
| 152 | 69.8 | 41.6 | 62.4# |

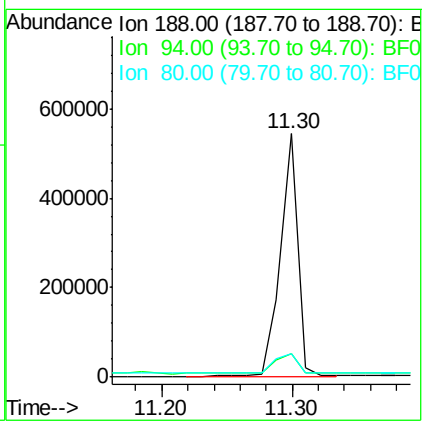


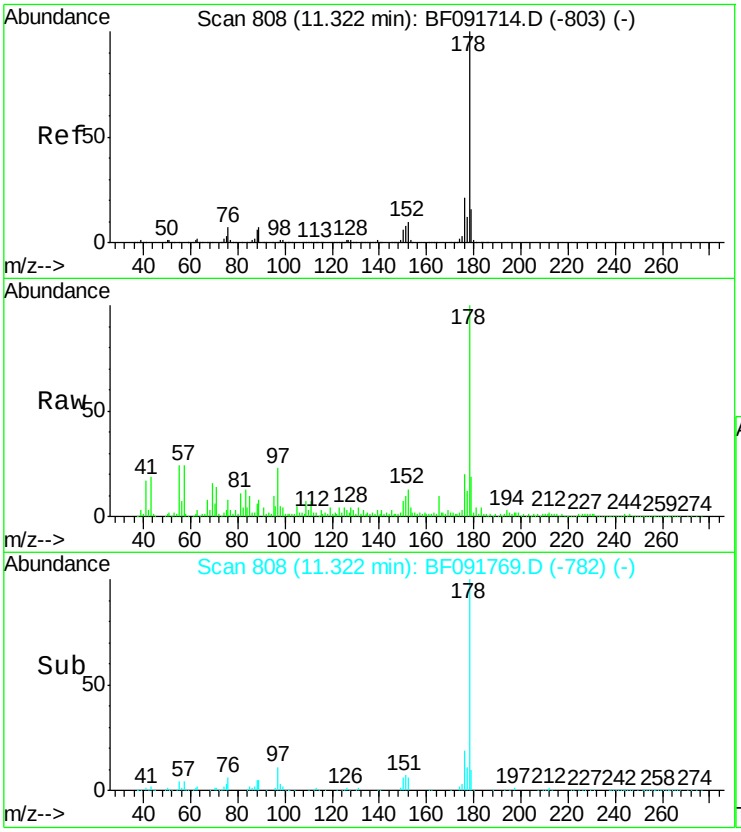




#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.30 min Scan# 806
Delta R.T. 0.01 min
Lab File: BF091769.D
Acq: 19 Dec 2016 7:09

Tgt Ion:188 Resp: 508300

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 9.6 | 10.0 | 15.0# |
| 80 | 9.7 | 11.2 | 16.8# |



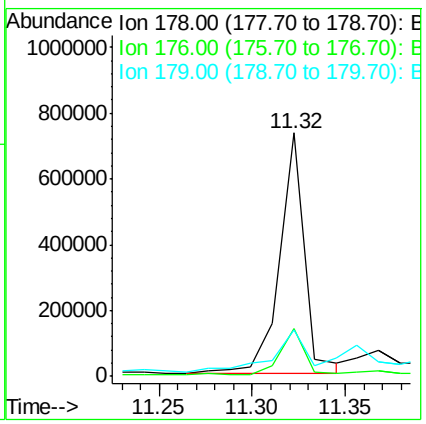


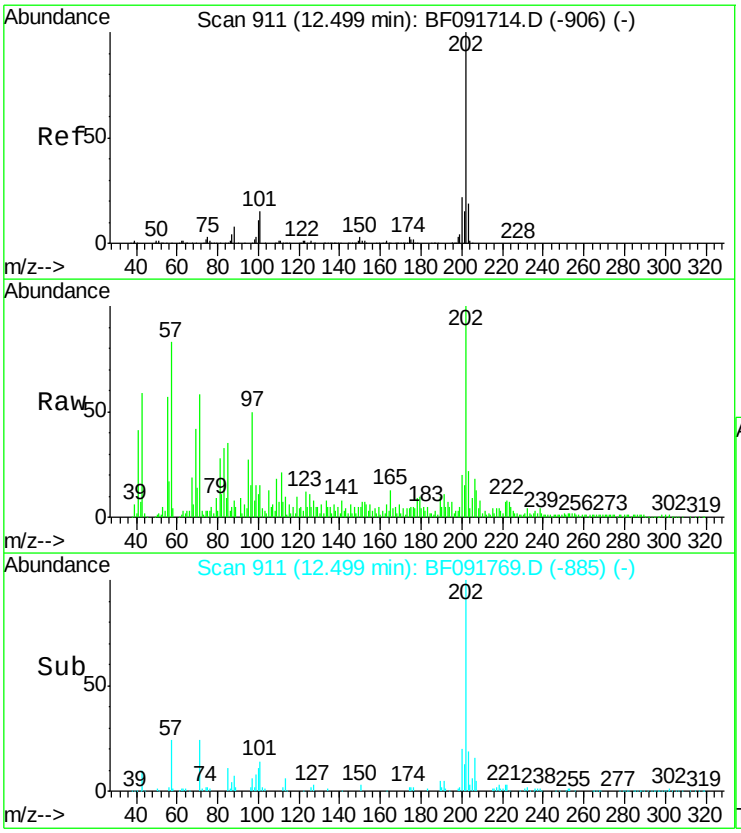

#70
Phenanthrene
Concen: 26.84 ng
RT: 11.32 min Scan# 808
Delta R.T. 0.00 min
Lab File: BF091769.D
Acq: 19 Dec 2016 7:09

**Instrument :**
BNA_F
**ClientSampleId :**
T-4DL

Tgt Ion:178 Resp: 681781

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.7 | 16.6 | 25.0 |
| 179 | 18.9 | 12.8 | 19.2 |

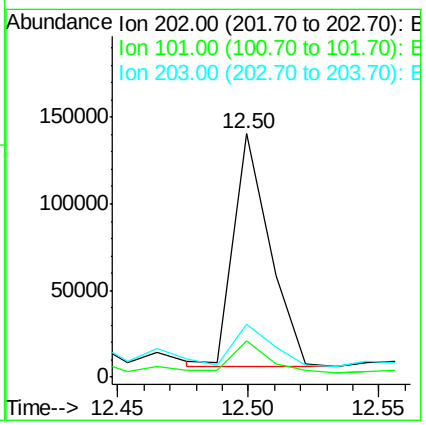


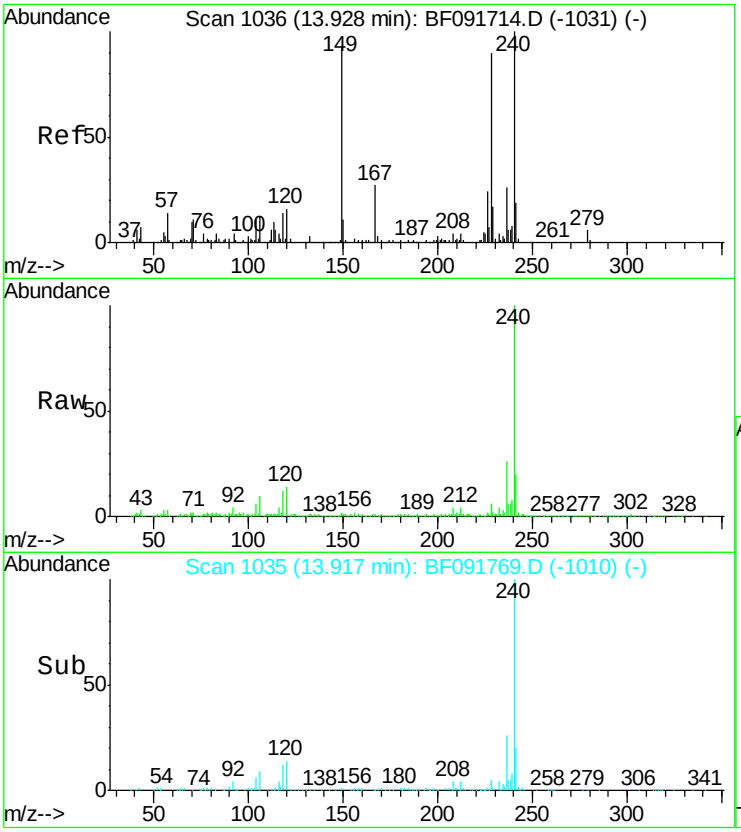




#74
Fluoranthene
Concen: 4.94 ng
RT: 12.50 min Scan# 911
Delta R.T. 0.00 min
Lab File: BF091769.D
Acq: 19 Dec 2016 7:09

Tgt Ion:202 Resp: 131063

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 15.0 | 0.0 | 34.6 |
| 203 | 21.8 | 0.0 | 38.7 |



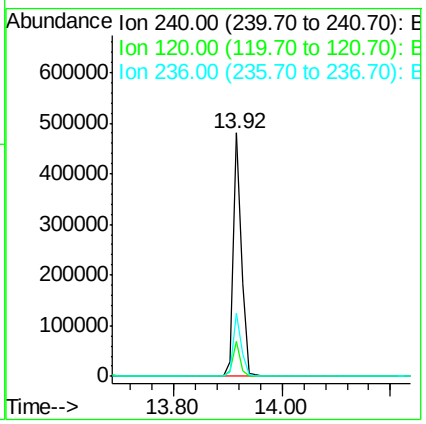


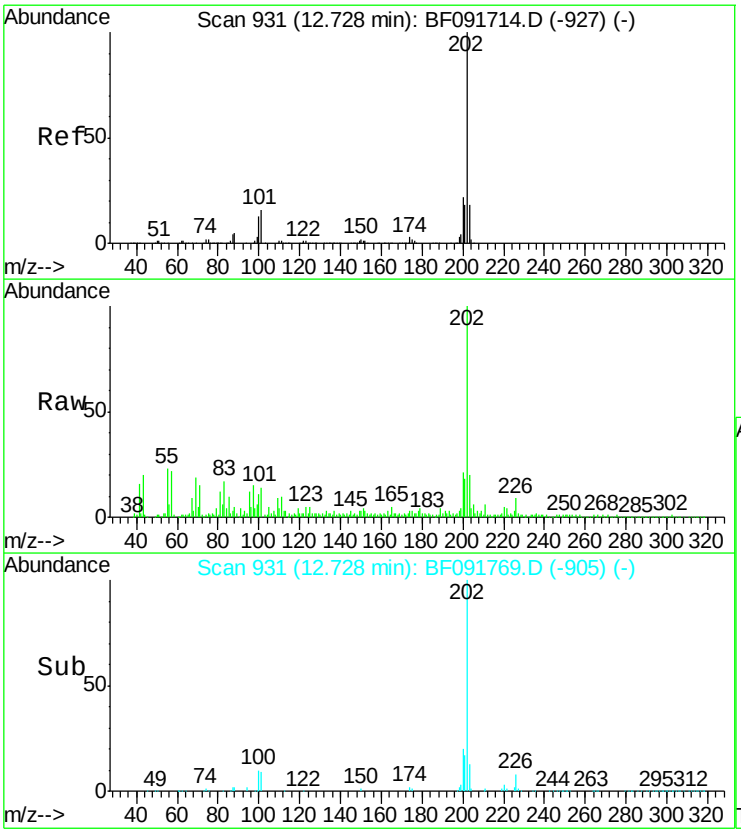

#75
Chrysene-d12
Concen: 20.00 ng
RT: 13.92 min Scan# 1035
Delta R.T. -0.01 min
Lab File: BF091769.D
Acq: 19 Dec 2016 7:09

**Instrument :**
BNA_F
**ClientSampleId :**
T-4DL

Tgt Ion:240 Resp: 484825

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 14.2 | 12.9 | 19.3 |
| 236 | 25.8 | 20.9 | 31.3 |

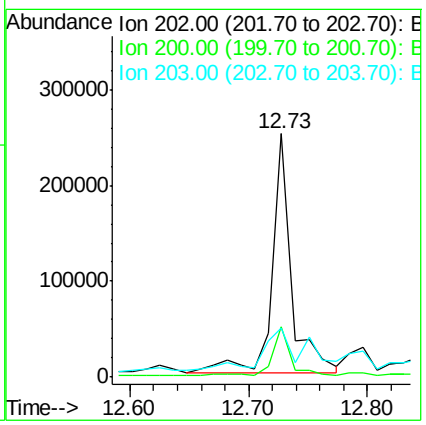


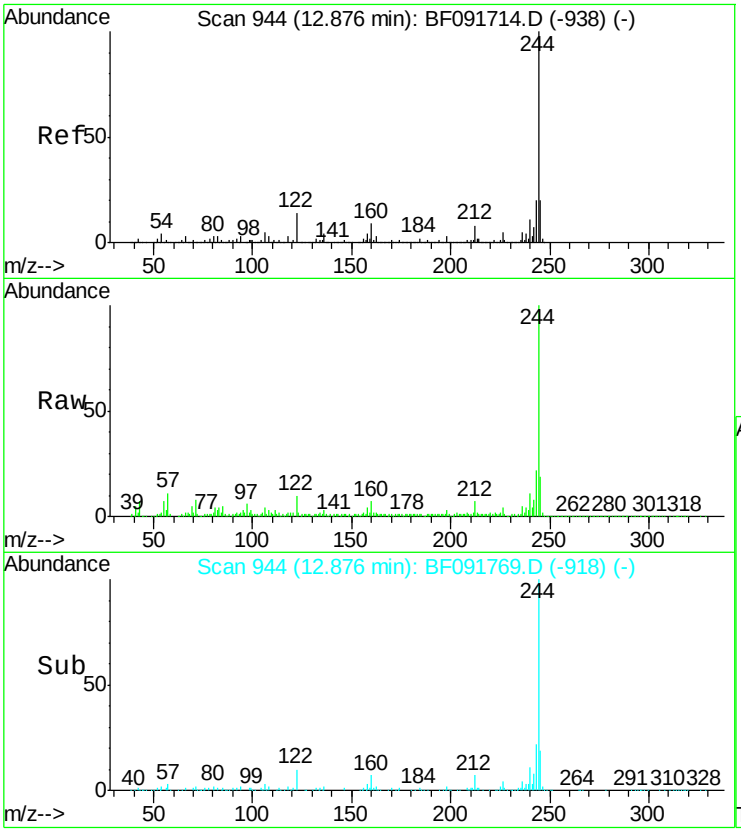




#77
Pyrene
Concen: 8.02 ng
RT: 12.73 min Scan# 931
Delta R.T. 0.00 min
Lab File: BF091769.D
Acq: 19 Dec 2016 7:09

Tgt Ion:202 Resp: 280868

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 20.8 | 17.7 | 26.5 |
| 203 | 20.3 | 14.7 | 22.1 |



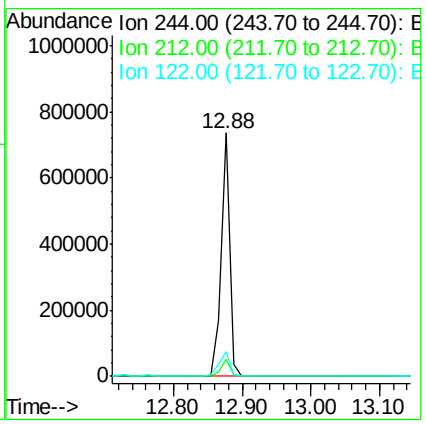


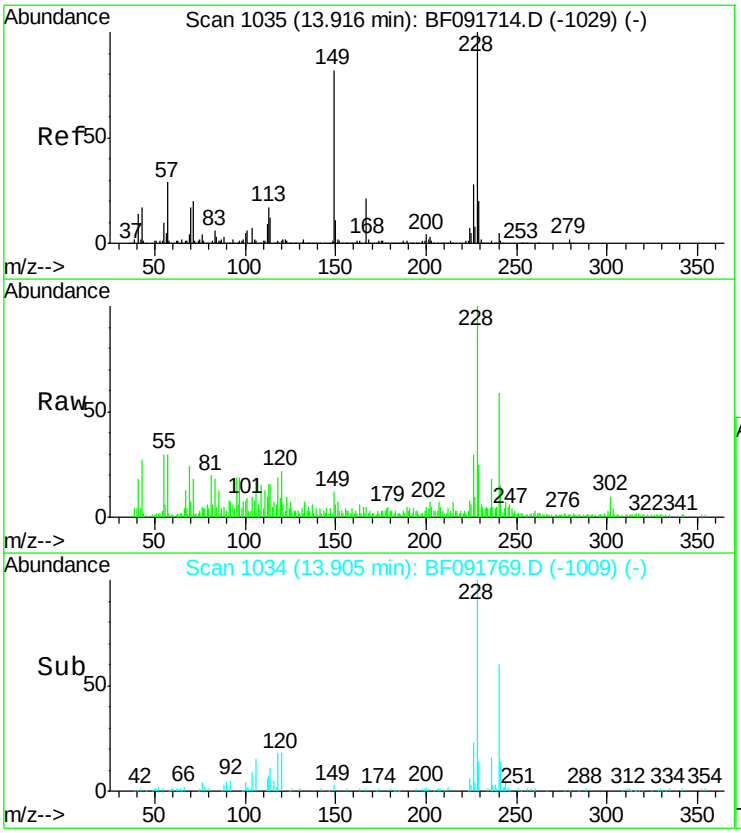

#78
Terphenyl-d14
Concen: 33.77 ng
RT: 12.88 min Scan# 944
Delta R.T. 0.00 min
Lab File: BF091769.D
Acq: 19 Dec 2016 7:09

**Instrument :**
BNA_F
**ClientSampleId :**
T-4DL

Tgt Ion:244 Resp: 648460

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 7.1 | 6.2 | 9.2 |
| 122 | 10.1 | 11.4 | 17.2# |

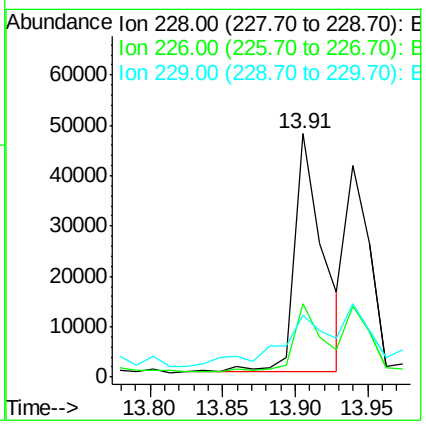


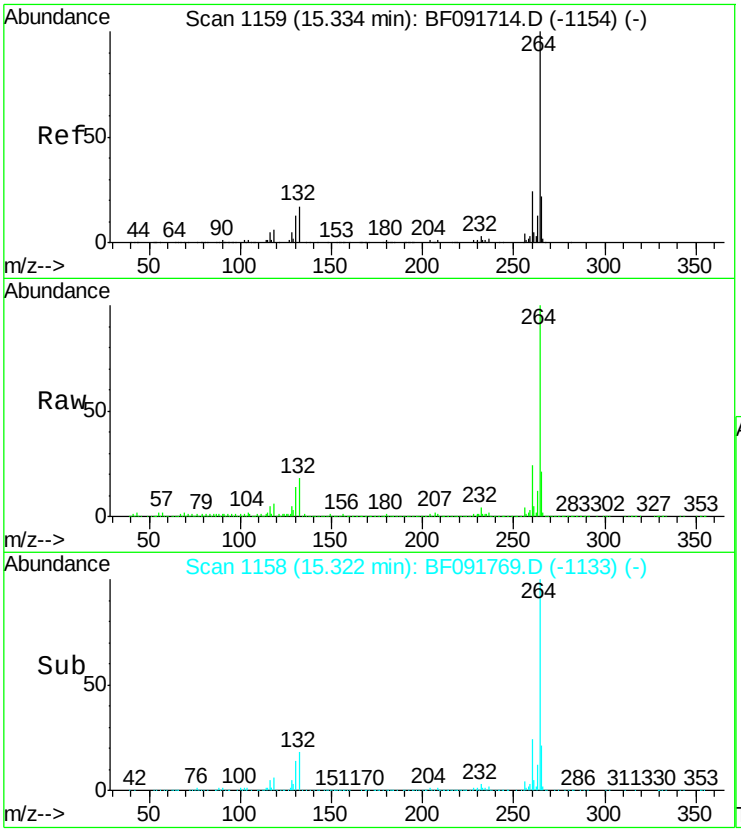




#80
Benzo(a)anthracene
Concen: 2.33 ng
RT: 13.91 min Scan# 1034
Delta R.T. -0.01 min
Lab File: BF091769.D
Acq: 19 Dec 2016 7:09

Tgt Ion:228 Resp: 64650

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.0 | 22.4 | 33.6 |
| 229 | 25.5 | 16.2 | 24.4# |






#86
Perylene-d12
Concen: 20.00 ng
RT: 15.32 min Scan# 1158
Delta R.T. -0.01 min
Lab File: BF091769.D
Acq: 19 Dec 2016 7:09

**Instrument :**
BNA_F
**ClientSampleId :**
T-4DL

Tgt Ion:264 Resp: 519612

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 24.0 | 19.2 | 28.8 |
| 265 | 21.5 | 17.4 | 26.0 |