Quantitation Report (LSC Reviewed)

Data Path : U:\HPCHEM1\BNA F\DATA\BF101816\
Data File : BF090638.D
Acq On : 18 Oct 2016 19:58
Operator : UM/SJ
Sample : H5289-08
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SP-1-1

Quant Time: Oct 19 02:02:14 2016
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF101316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 17 19:19:58 2016
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 6.90 | 152 | 212418 | 20.00 | ng | | -0.01 |
| 21) Naphthalene-d8 | 8.19 | 136 | 942149 | 20.00 | ng | | -0.01 |
| 38) Acenaphthene-d10 | 9.95 | 164 | 423911 | 20.00 | ng | | -0.01 |
| 63) Phenanthrene-d10 | 11.43 | 188 | 571921 | 20.00 | ng | | -0.01 |
| 75) Chrysene-d12 | 14.09 | 240 | 613842 | 20.00 | ng | | 0.00 |
| 86) Perylene-d12 | 15.56 | 264 | 443996 | 20.00 | ng | | 0.02 |
| **System Monitoring Compounds** | | | | | | | |
| 5) 2-Fluorophenol | 5.50 | 112 | 952701 | 82.22 | ng | | -0.01 |
| 7) Phenol-d6 | 6.54 | 99 | 1375233 | 79.88 | ng | | 0.00 |
| 23) Nitrobenzene-d5 | 7.46 | 82 | 831983 | 49.05 | ng | | -0.02 |
| 41) 2,4,6-Tribromophenol | 10.74 | 330 | 241810 | 63.98 | ng | | -0.01 |
| 44) 2-Fluorobiphenyl | 9.26 | 172 | 1230938 | 47.85 | ng | | -0.01 |
| 78) Terphenyl-d14 | 13.02 | 244 | 971334 | 36.84 | ng | | -0.01 |
| **Target Compounds** | | | | | | | Qvalue |
| 9) Benzaldehyde | 6.44 | 77 | 62243 | 5.69 | ng | | 89 |
| 37) 2-Methylnaphthalene | 8.90 | 142 | 58519 | 2.08 | ng | | 99 |
| 49) Dimethylphthalate | 9.66 | 163 | 564831 | 20.54 | ng | | 99 |
| 70) Phenanthrene | 11.46 | 178 | 157670 | 5.16 | ng | | 98 |
| 71) Anthracene | 11.50 | 178 | 81369 | 2.48 | ng | | 99 |
| 74) Fluoranthene | 12.65 | 202 | 407183 | 13.26 | ng | | 97 |
| 77) Pyrene | 12.87 | 202 | 354238 | 8.71 | ng | | 98 |
| 80) Benzo(a)anthracene | 14.07 | 228 | 205775m | 5.89 | ng | | |
| 82) Chrysene | 14.11 | 228 | 352633m | 10.47 | ng | | |
| 85) Indeno(1,2,3-cd)pyrene | 17.01 | 276 | 101661 | 5.22 | ng | # | 90 |
| 87) Benzo(b)fluoranthene | 15.13 | 252 | 463033m | 15.94 | ng | | |
| 88) Benzo(k)fluoranthene | 15.15 | 252 | 110997m | 3.55 | ng | | |
| 89) Benzo(a)pyrene | 15.49 | 252 | 131953 | 4.96 | ng | # | 88 |
| 91) Benzo(g,h,i)perylene | 17.46 | 276 | 90339 | 4.67 | ng | | 96 |

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

Data Path : U:\HPCHEM1\BNA F\DATA\BF101816\
Data File : BF090638.D
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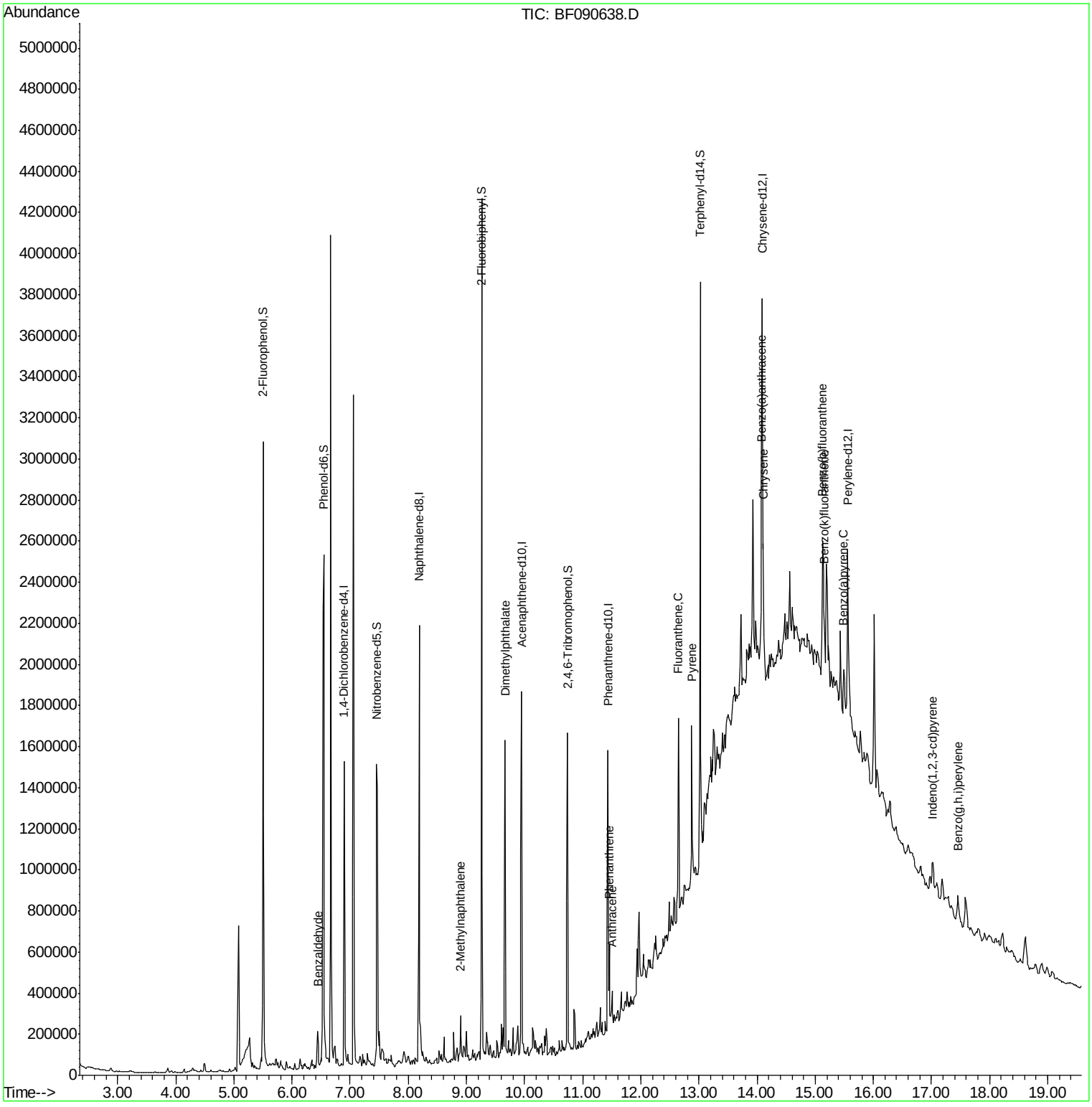
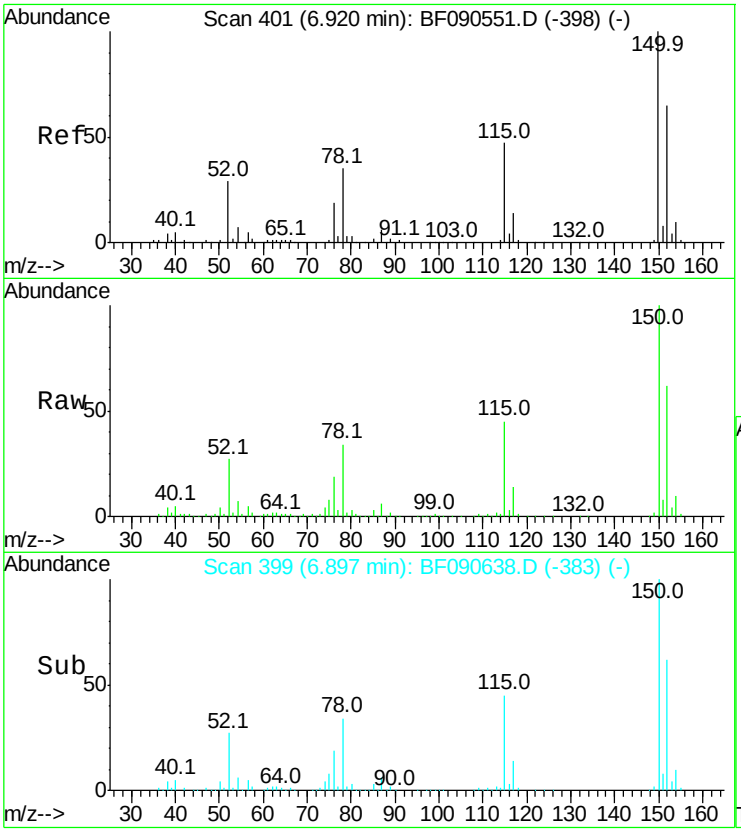
Operator : UM/SJ
Sample : H5289-08
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SP-1-1

Quant Time: Oct 19 02:02:14 2016
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF101316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 17 19:19:58 2016
Response via : Initial Calibration



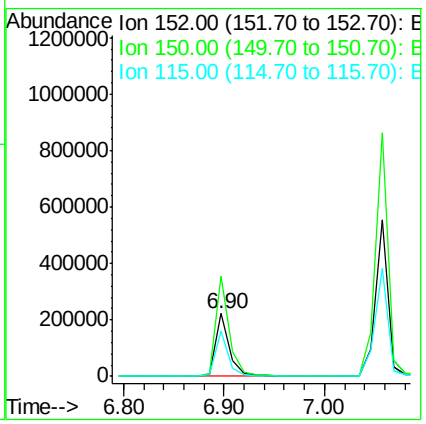


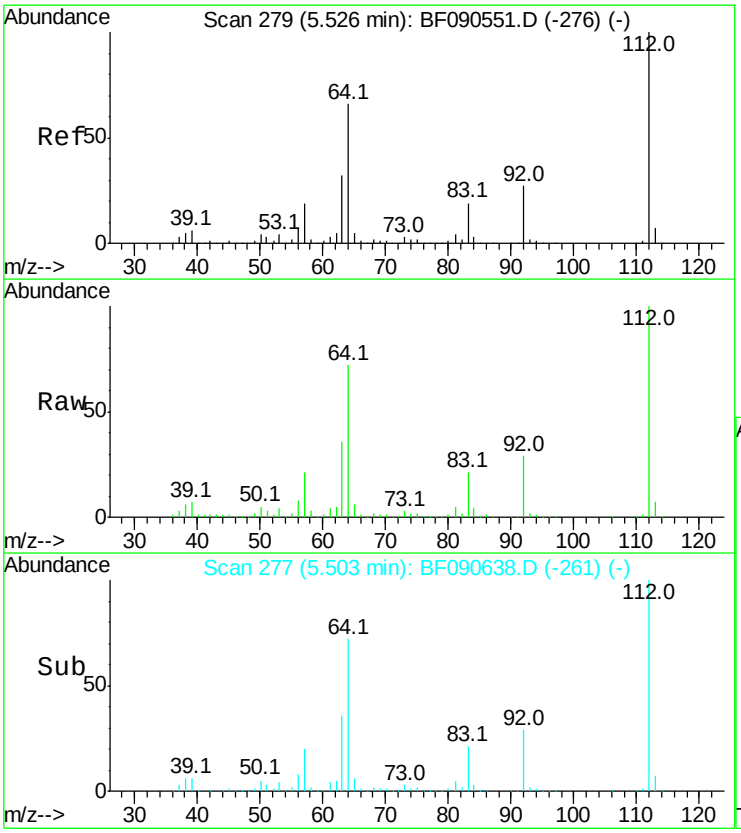

#1
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.90 min Scan# 399
Delta R.T. -0.01 min
Lab File: BF090638.D
Acq: 18 Oct 2016 19:58

**Instrument :**
BNA_F
**ClientSampleId :**
SP-1-1

Tgt Ion:152 Resp: 212418

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 160.1 | 127.2 | 190.8 |
| 115 | 72.7 | 58.6 | 88.0 |

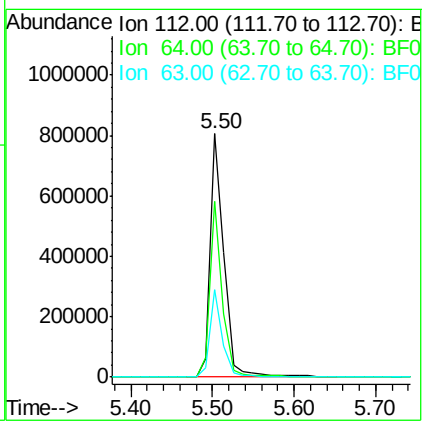


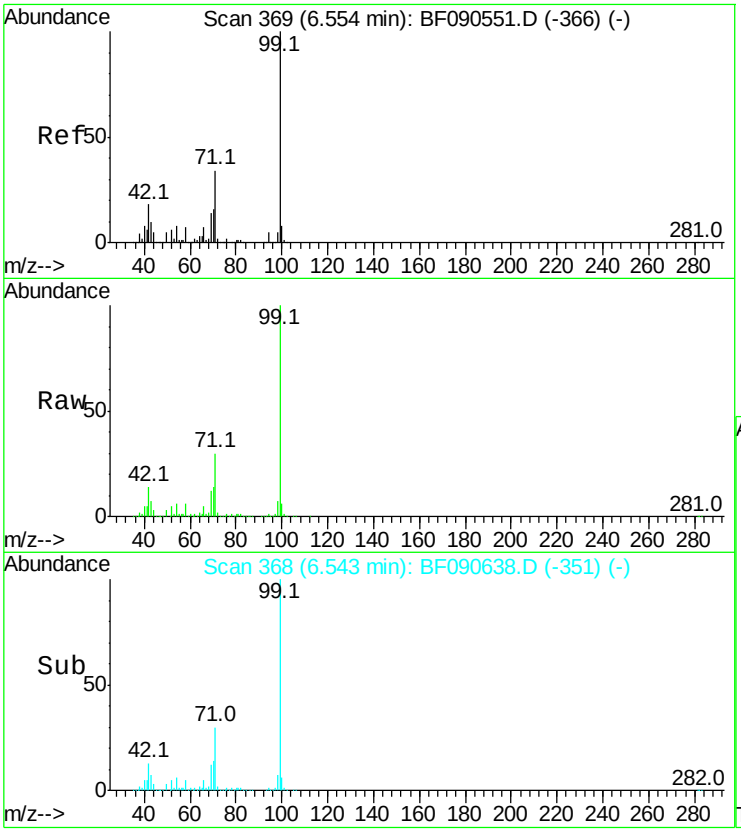




#5
2-Fluorophenol
Concen: 82.22 ng
RT: 5.50 min Scan# 277
Delta R.T. -0.01 min
Lab File: BF090638.D
Acq: 18 Oct 2016 19:58

Tgt Ion:112 Resp: 952701

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 72.5 | 52.6 | 78.8 |
| 63 | 35.7 | 26.0 | 39.0 |



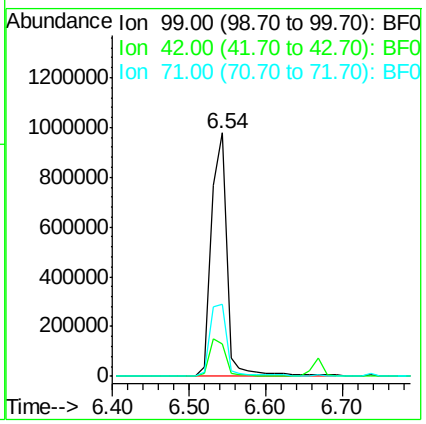


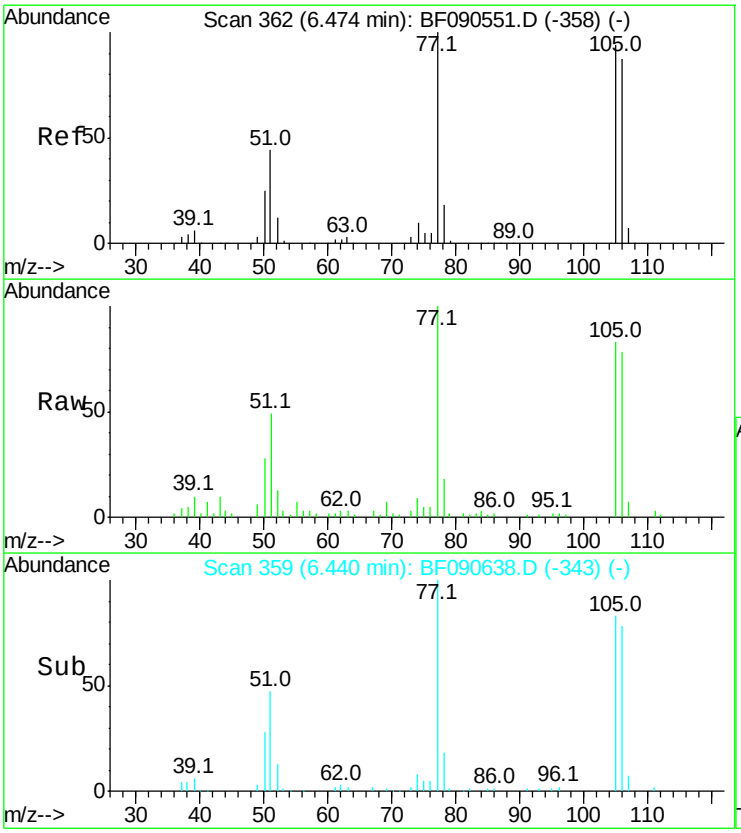

#7
Phenol-d6
Concen: 79.88 ng
RT: 6.54 min Scan# 368
Delta R.T. -0.00 min
Lab File: BF090638.D
Acq: 18 Oct 2016 19:58

**Instrument :**
BNA_F
**ClientSampleId :**
SP-1-1

Tgt Ion: 99 Resp: 1375233

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 13.6 | 14.7 | 22.1# |
| 71 | 29.8 | 27.6 | 41.4 |

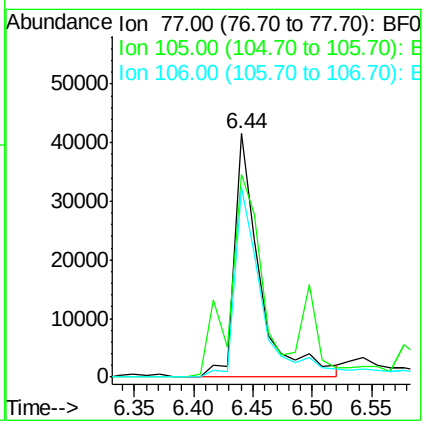


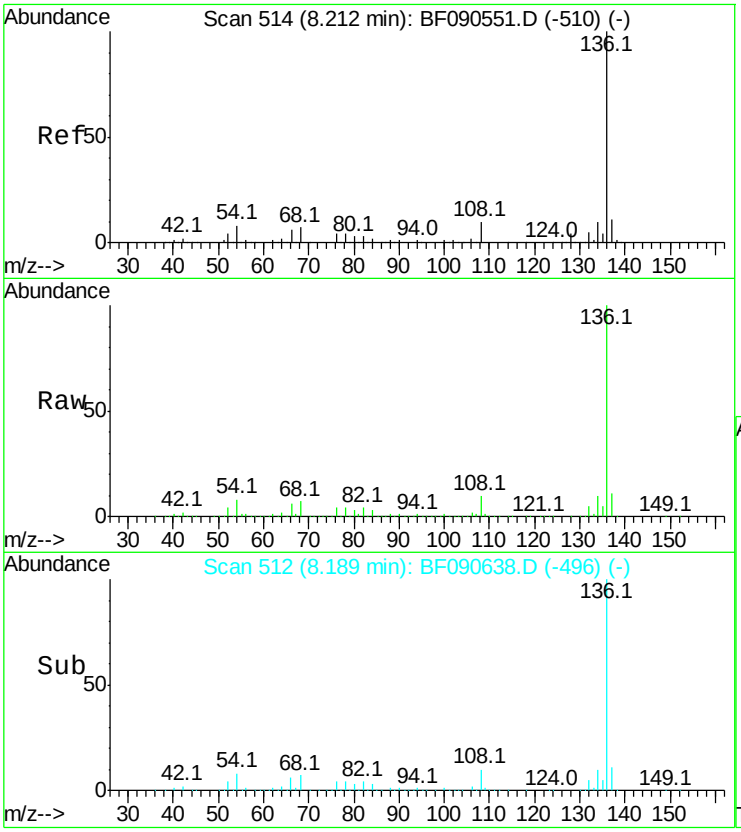




#9
Benzaldehyde
Concen: 5.69 ng
RT: 6.44 min Scan# 359
Delta R.T. -0.01 min
Lab File: BF090638.D
Acq: 18 Oct 2016 19:58

Tgt Ion: 77 Resp: 62243

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 105 | 83.4 | 74.3 | 114.3 |
| 106 | 77.9 | 67.2 | 107.2 |



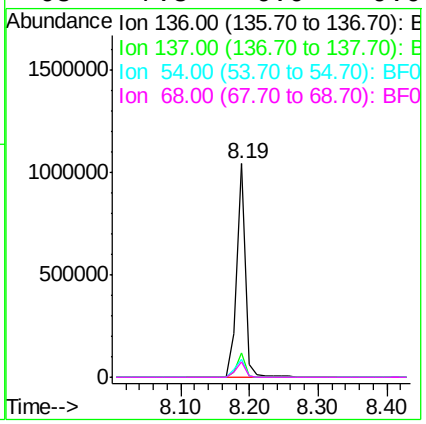


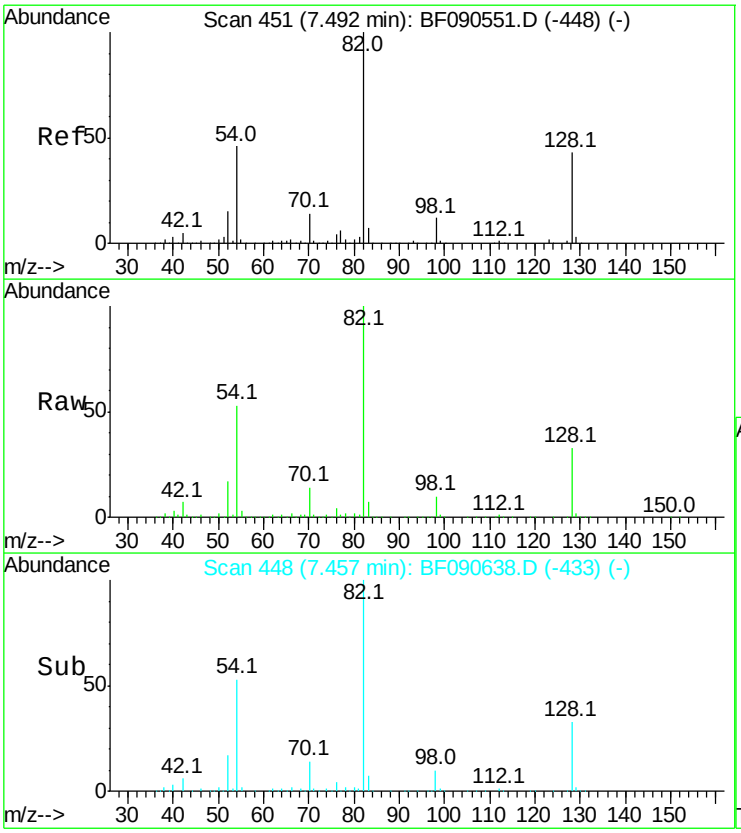

#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.19 min Scan# 512
Delta R.T. -0.01 min
Lab File: BF090638.D
Acq: 18 Oct 2016 19:58

**Instrument :**
BNA_F
**ClientSampleId :**
SP-1-1

Tgt Ion:136 Resp: 942149

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.3 | 8.8 | 13.2 |
| 54 | 8.4 | 6.8 | 10.2 |
| 68 | 7.3 | 6.0 | 9.0 |

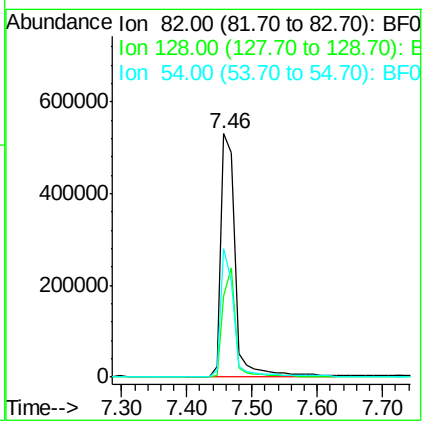


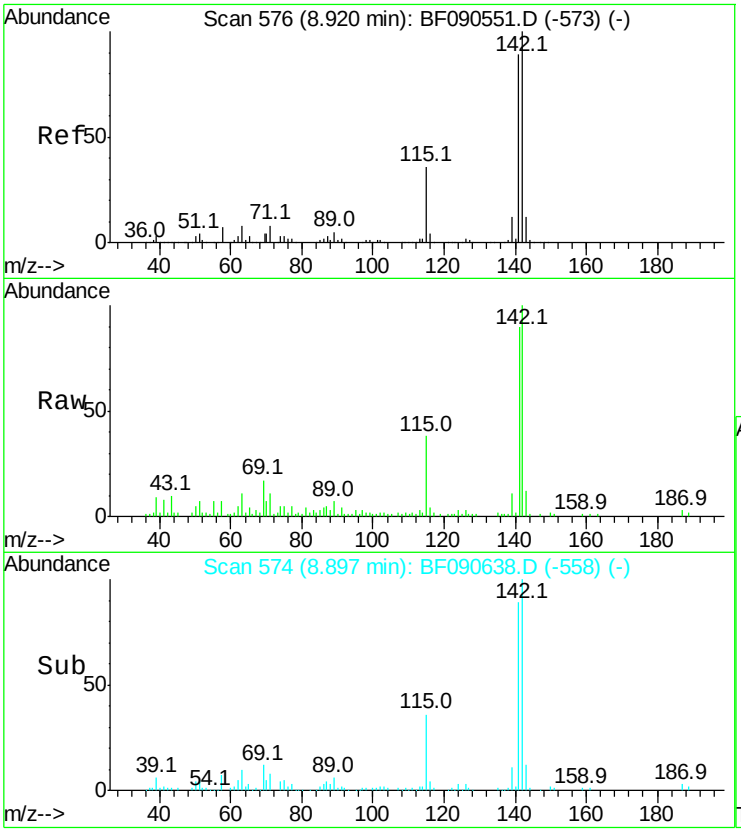




#23
Nitrobenzene-d5
Concen: 49.05 ng
RT: 7.46 min Scan# 448
Delta R.T. -0.02 min
Lab File: BF090638.D
Acq: 18 Oct 2016 19:58

Tgt Ion: 82 Resp: 831983

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 33.4 | 34.3 | 51.5# |
| 54 | 52.8 | 37.0 | 55.6 |



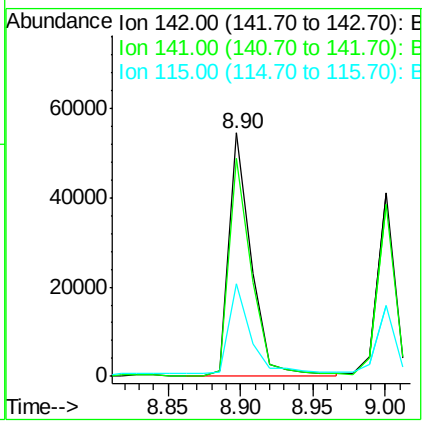


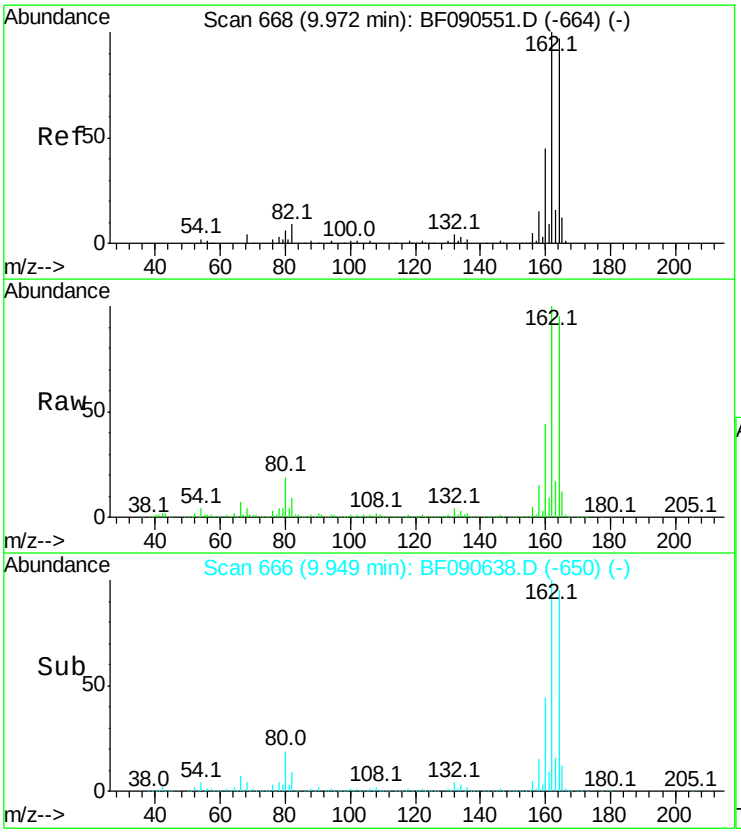

#37
2-Methylnaphthalene
Concen: 2.08 ng
RT: 8.90 min Scan# 574
Delta R.T. -0.01 min
Lab File: BF090638.D
Acq: 18 Oct 2016 19:58

**Instrument :**
BNA_F
**ClientSampleId :**
SP-1-1

Tgt Ion:142 Resp: 58519

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 89.5 | 71.3 | 106.9 |
| 115 | 37.8 | 28.8 | 43.2 |

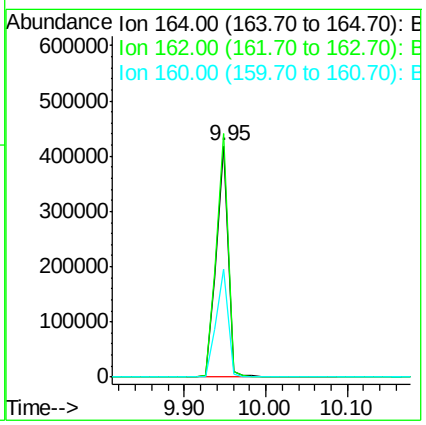


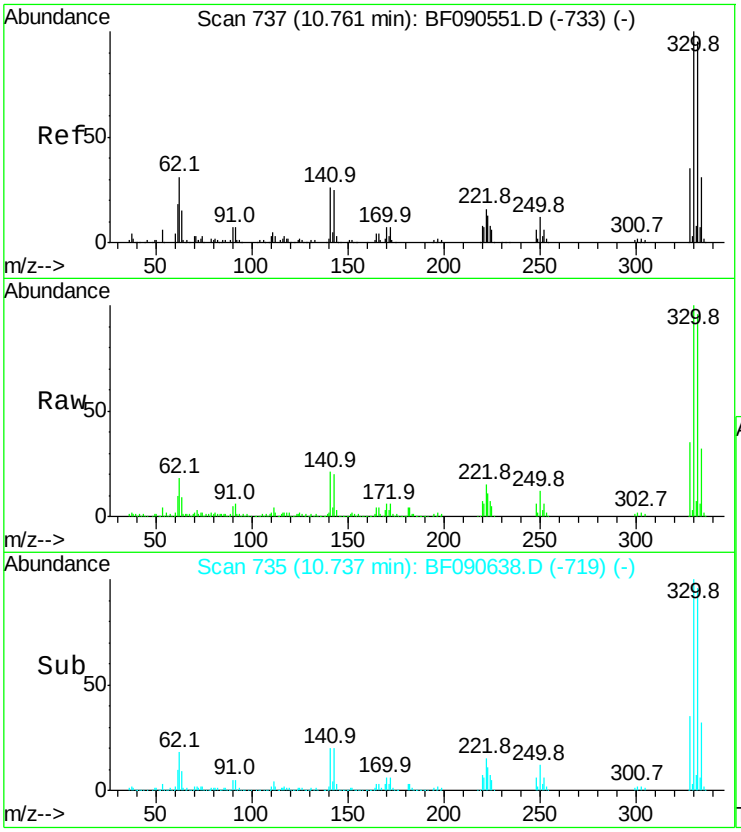




#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.95 min Scan# 666
Delta R.T. -0.01 min
Lab File: BF090638.D
Acq: 18 Oct 2016 19:58

Tgt Ion:164 Resp: 423911

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 105.5 | 82.2 | 123.4 |
| 160 | 46.6 | 36.6 | 55.0 |



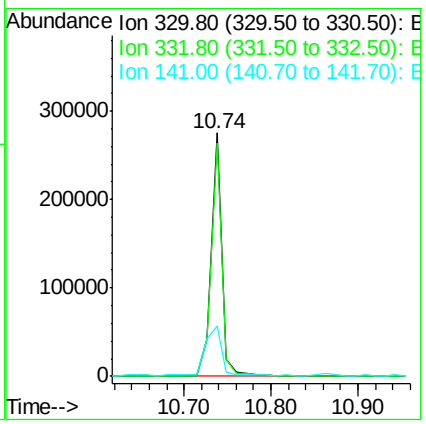


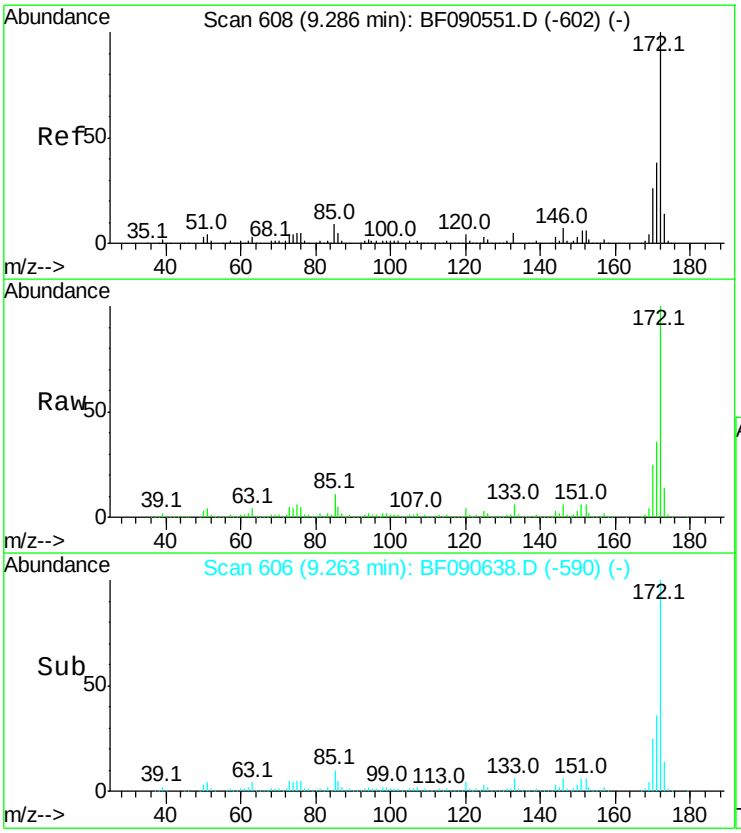

#41
2,4,6-Tribromophenol
Concen: 63.98 ng
RT: 10.74 min Scan# 735
Delta R.T. -0.01 min
Lab File: BF090638.D
Acq: 18 Oct 2016 19:58

**Instrument :**
BNA_F
**ClientSampleId :**
SP-1-1

Tgt Ion:330 Resp: 241810

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 95.9 | 76.2 | 114.2 |
| 141 | 31.4 | 31.4 | 47.2# |

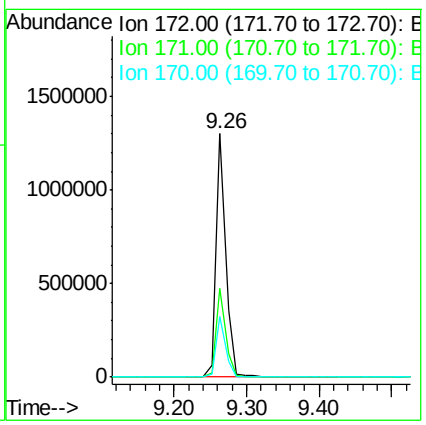


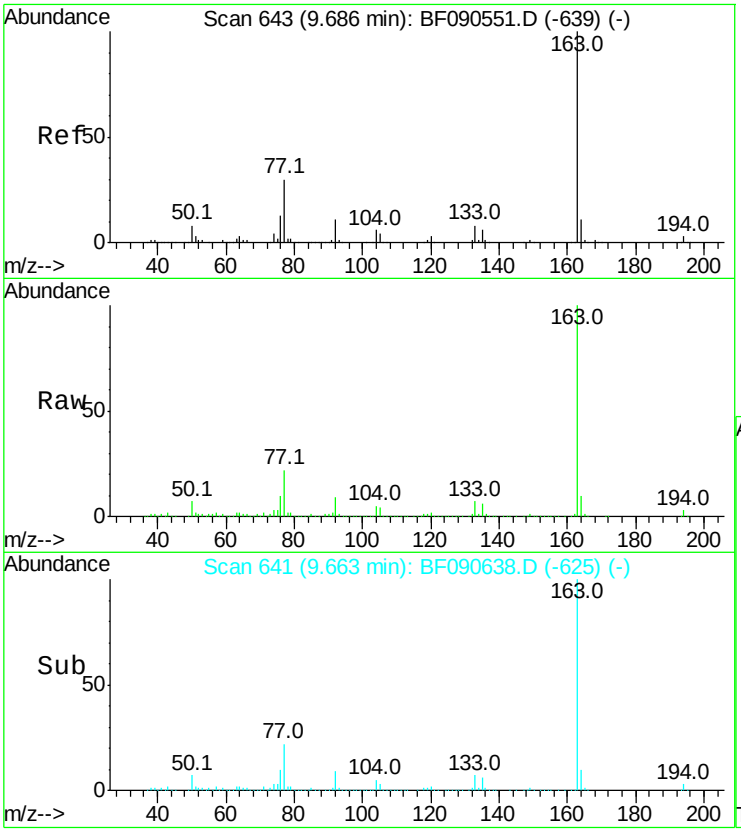




#44
2-Fluorobiphenyl
Concen: 47.85 ng
RT: 9.26 min Scan# 606
Delta R.T. -0.01 min
Lab File: BF090638.D
Acq: 18 Oct 2016 19:58

Tgt Ion:172 Resp: 1230938

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.3 | 30.1 | 45.1 |
| 170 | 24.9 | 20.6 | 30.8 |



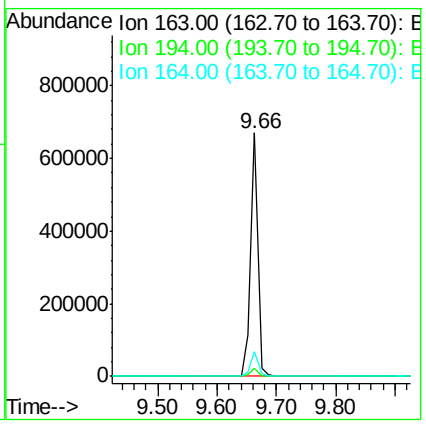


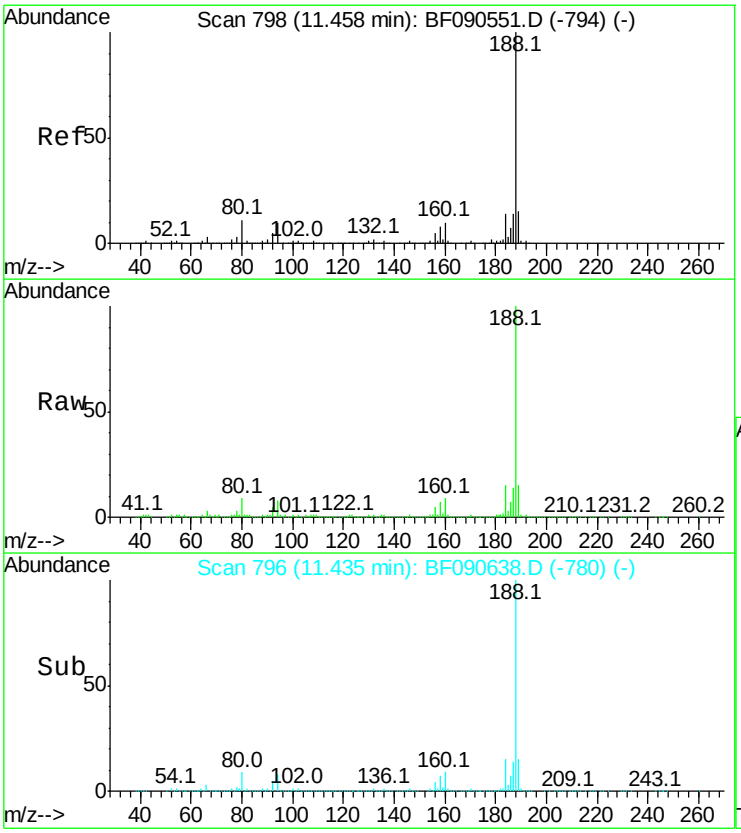

#49
Dimethylphthalate
Concen: 20.54 ng
RT: 9.66 min Scan# 641
Delta R.T. -0.01 min
Lab File: BF090638.D
Acq: 18 Oct 2016 19:58

**Instrument :**
BNA_F
**ClientSampleId :**
SP-1-1

Tgt Ion:163 Resp: 564831

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 163 | 100 | | |
| 194 | 3.4 | 2.3 | 3.5 |
| 164 | 10.2 | 8.6 | 13.0 |

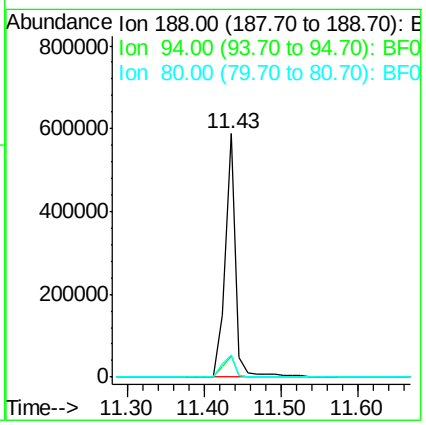


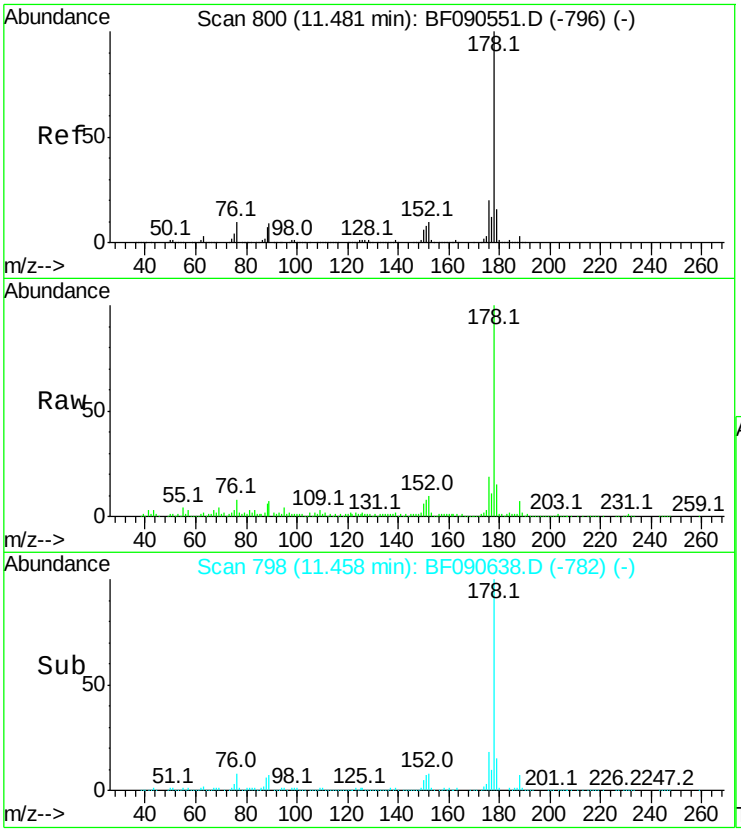




#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.43 min Scan# 796
Delta R.T. -0.01 min
Lab File: BF090638.D
Acq: 18 Oct 2016 19:58

Tgt Ion:188 Resp: 571921

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 8.5 | 7.7 | 11.5 |
| 80 | 8.9 | 8.6 | 12.8 |



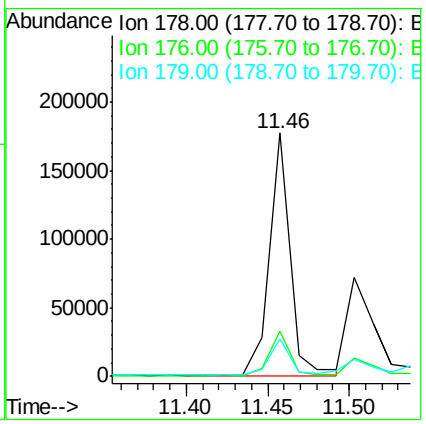


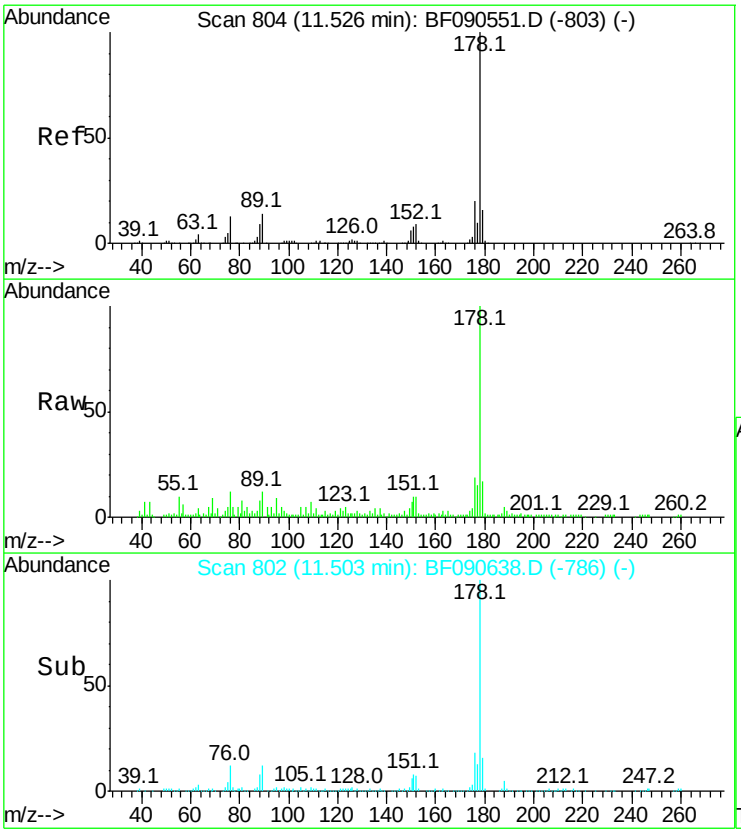

#70
Phenanthrene
Concen: 5.16 ng
RT: 11.46 min Scan# 798
Delta R.T. -0.01 min
Lab File: BF090638.D
Acq: 18 Oct 2016 19:58

**Instrument :**
BNA_F
**ClientSampleId :**
SP-1-1

Tgt Ion:178 Resp: 157670

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.7 | 16.1 | 24.1 |
| 179 | 15.2 | 12.6 | 19.0 |

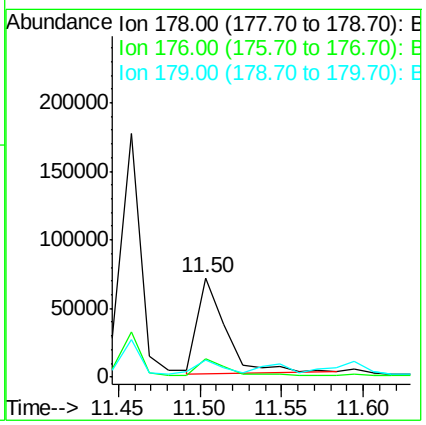


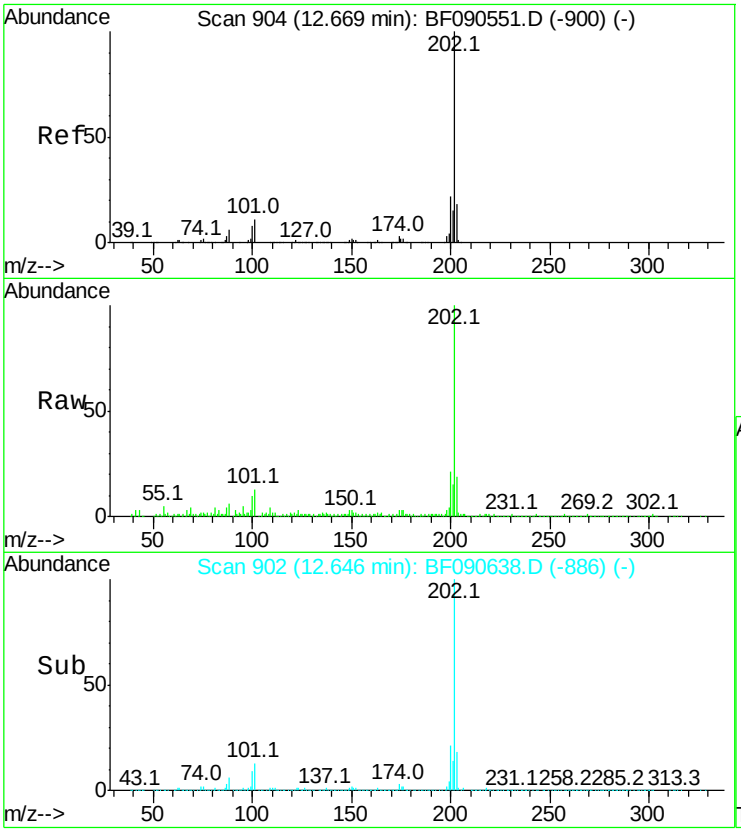




#71
Anthracene
Concen: 2.48 ng
RT: 11.50 min Scan# 802
Delta R.T. -0.01 min
Lab File: BF090638.D
Acq: 18 Oct 2016 19:58

Tgt Ion:178 Resp: 81369

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.9 | 15.5 | 23.3 |
| 179 | 16.8 | 13.0 | 19.4 |



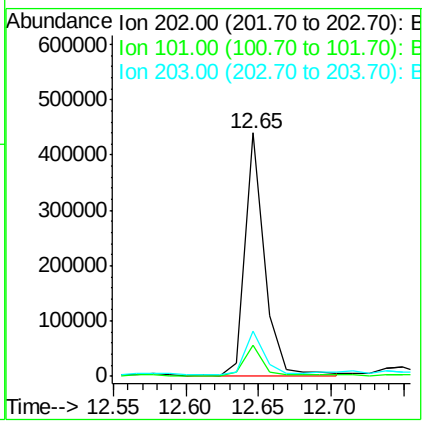


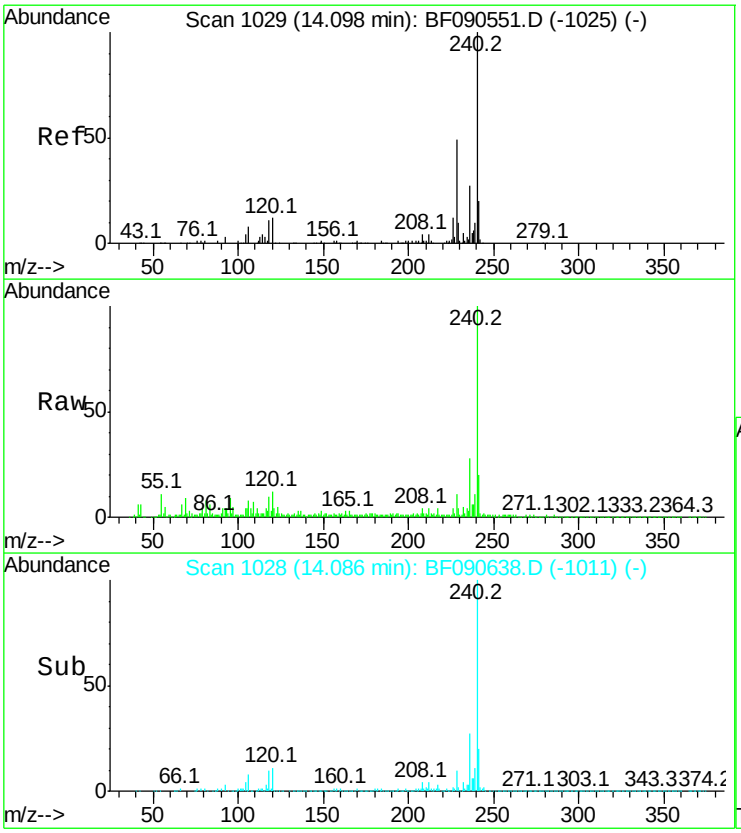

#74
Fluoranthene
Concen: 13.26 ng
RT: 12.65 min Scan# 902
Delta R.T. -0.01 min
Lab File: BF090638.D
Acq: 18 Oct 2016 19:58

**Instrument :**
BNA_F
**ClientSampleId :**
SP-1-1

Tgt Ion:202 Resp: 407183

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 12.9 | 0.0 | 31.1 |
| 203 | 18.6 | 0.0 | 38.0 |

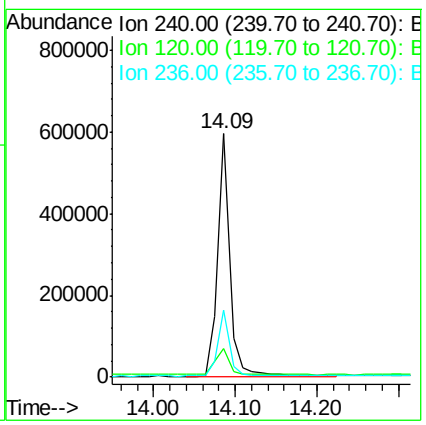


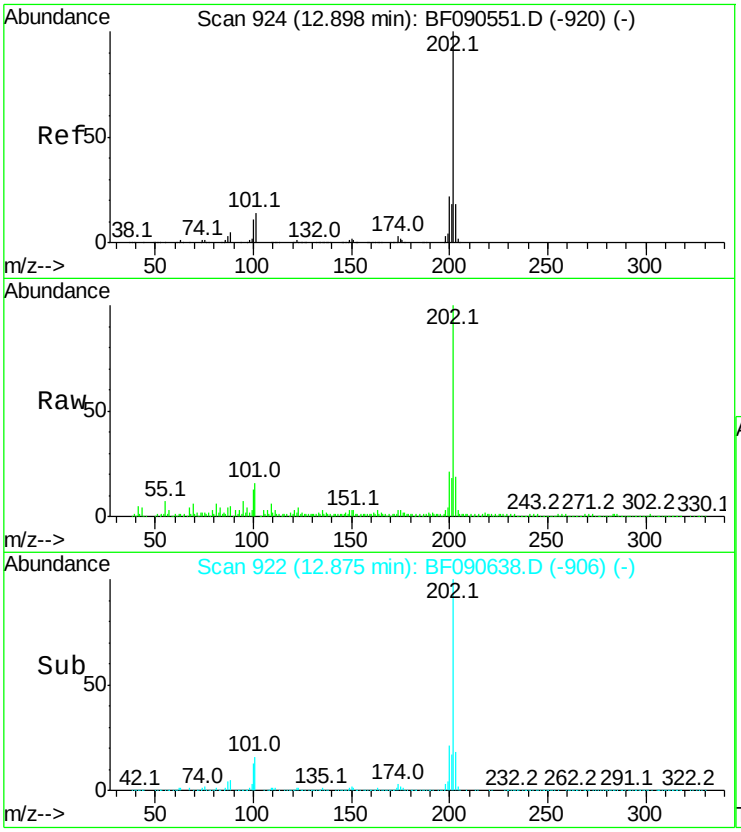




#75
Chrysene-d12
Concen: 20.00 ng
RT: 14.09 min Scan# 1028
Delta R.T. -0.00 min
Lab File: BF090638.D
Acq: 18 Oct 2016 19:58

Tgt Ion:240 Resp: 613842

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 12.0 | 9.8 | 14.8 |
| 236 | 27.5 | 21.7 | 32.5 |



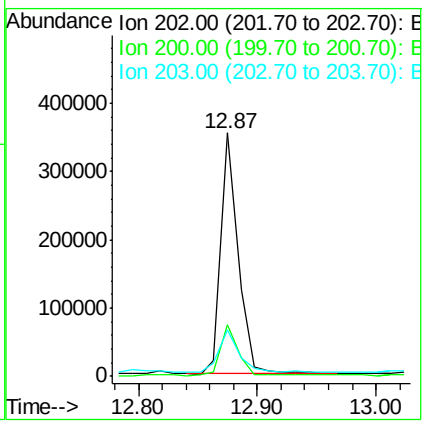


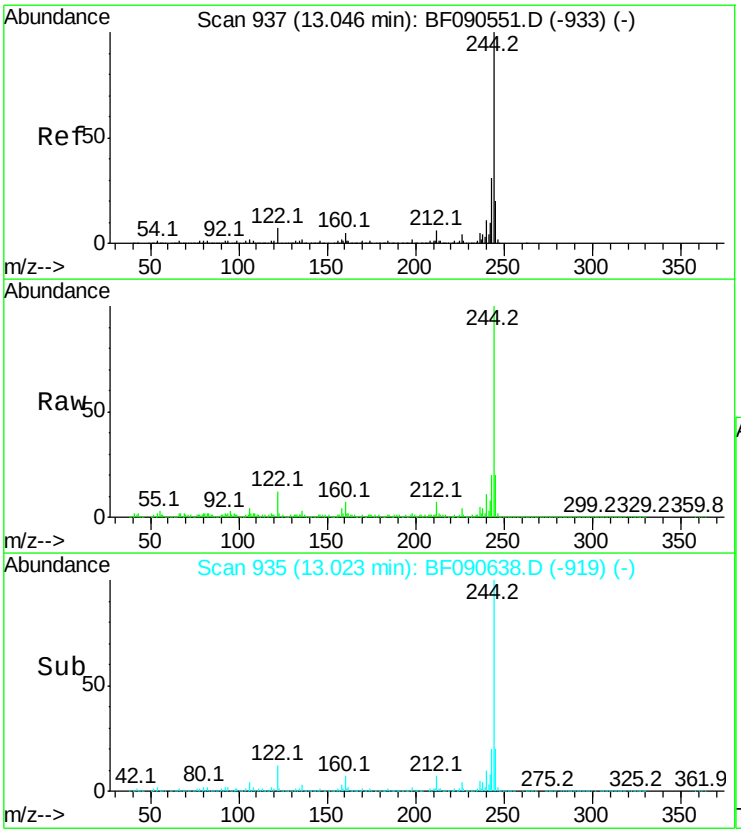

#77
Pyrene
Concen: 8.71 ng
RT: 12.87 min Scan# 922
Delta R.T. -0.01 min
Lab File: BF090638.D
Acq: 18 Oct 2016 19:58

**Instrument :**
BNA_F
**ClientSampleId :**
SP-1-1

Tgt Ion:202 Resp: 354238

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.1 | 17.8 | 26.6 |
| 203 | 19.3 | 14.6 | 21.8 |

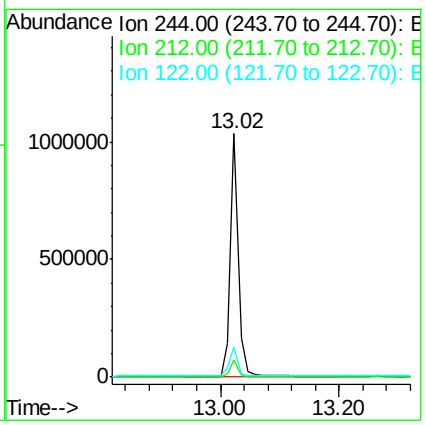


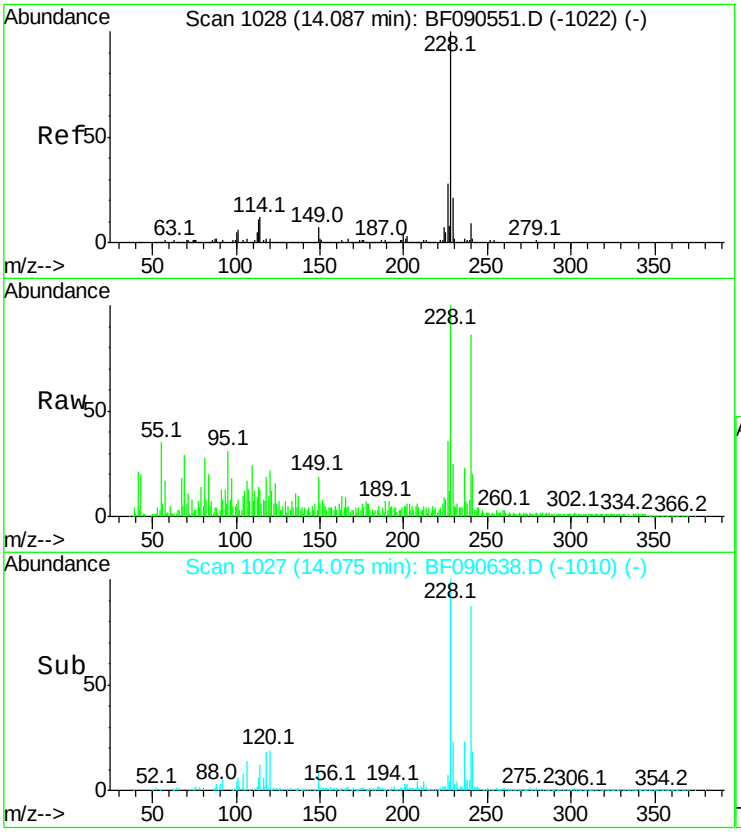




#78
Terphenyl-d14
Concen: 36.84 ng
RT: 13.02 min Scan# 935
Delta R.T. -0.01 min
Lab File: BF090638.D
Acq: 18 Oct 2016 19:58

Tgt Ion:244 Resp: 971334

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 6.8 | 5.0 | 7.4 |
| 122 | 12.1 | 5.6 | 8.4# |



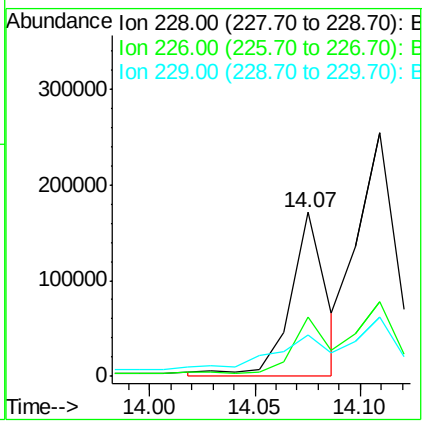


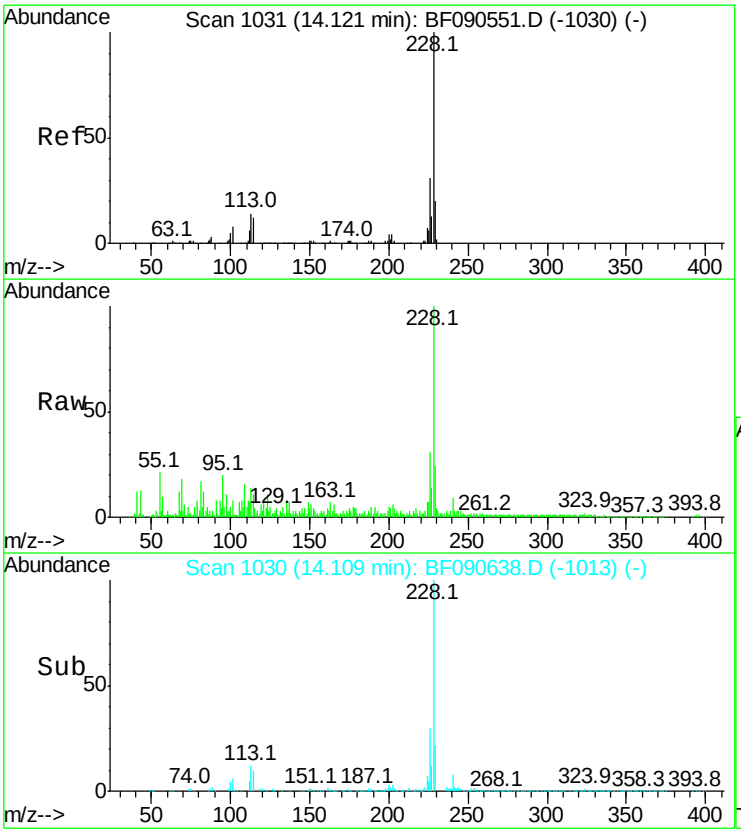

#80
Benzo(a)anthracene
Concen: 5.89 ng m
RT: 14.07 min Scan# 1027
Delta R.T. -0.00 min
Lab File: BF090638.D
Acq: 18 Oct 2016 19:58

**Instrument :**
BNA_F
**ClientSampleId :**
SP-1-1

Tgt Ion:228 Resp: 205775

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 36.2 | 22.8 | 34.2# |
| 229 | 25.3 | 16.6 | 25.0# |

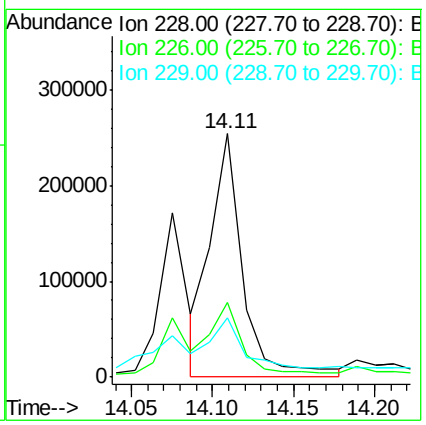


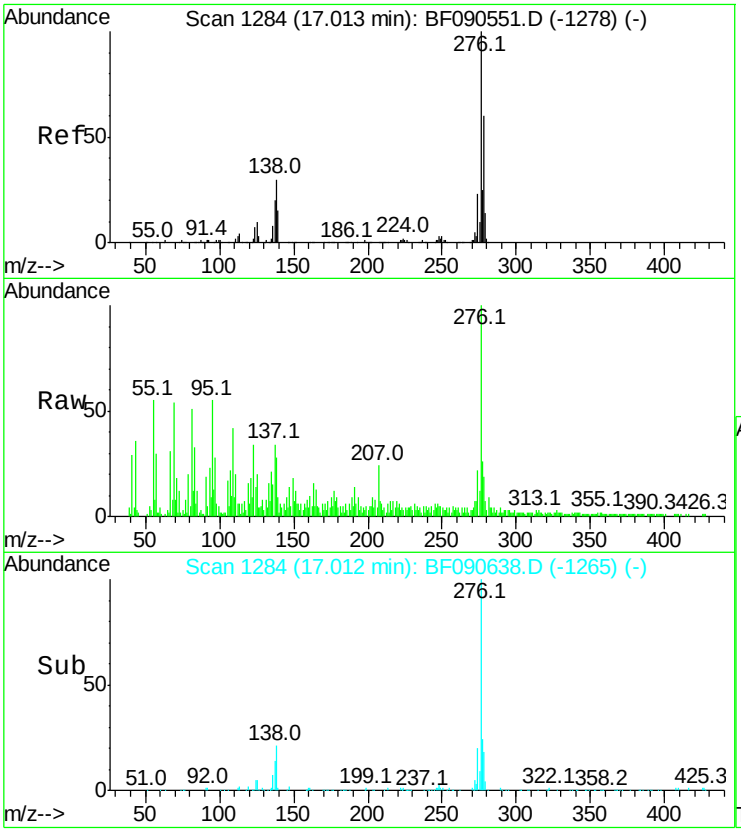




#82
Chrysene
Concen: 10.47 ng m
RT: 14.11 min Scan# 1030
Delta R.T. -0.00 min
Lab File: BF090638.D
Acq: 18 Oct 2016 19:58

Tgt Ion:228 Resp: 352633

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.9 | 24.8 | 37.2 |
| 229 | 24.3 | 16.2 | 24.4 |



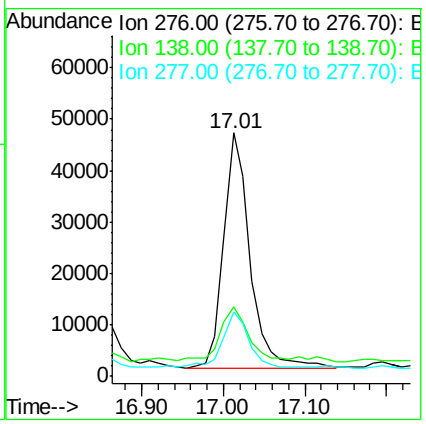


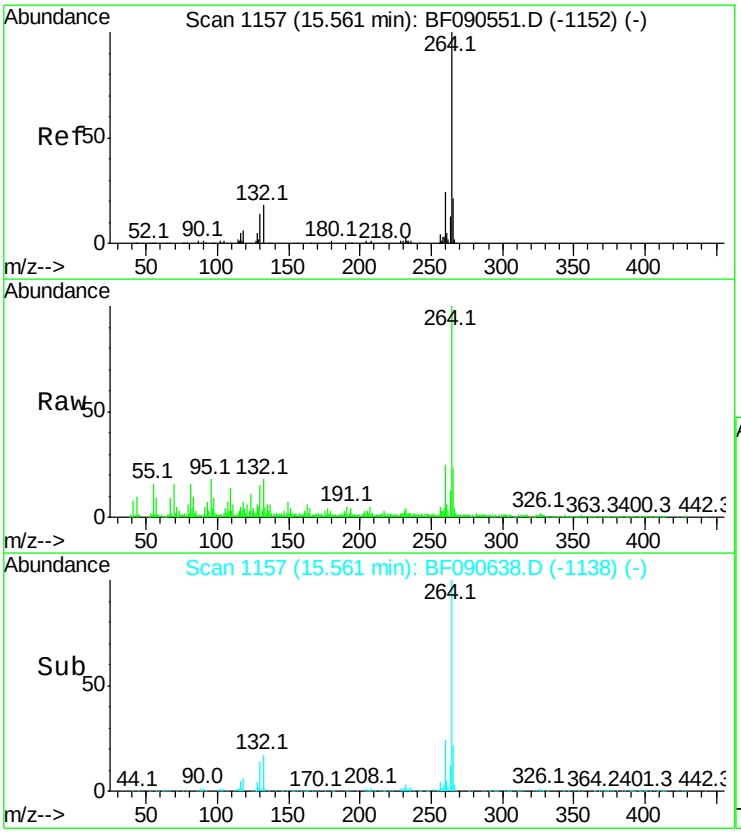

#85
Indeno(1,2,3-cd)pyrene
Concen: 5.22 ng
RT: 17.01 min Scan# 1284
Delta R.T. 0.02 min
Lab File: BF090638.D
Acq: 18 Oct 2016 19:58

**Instrument :**
BNA_F
**ClientSampleId :**
SP-1-1

Tgt Ion:276 Resp: 101661

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 23.7 | 25.8 | 38.6# |
| 277 | 23.7 | 20.1 | 30.1 |

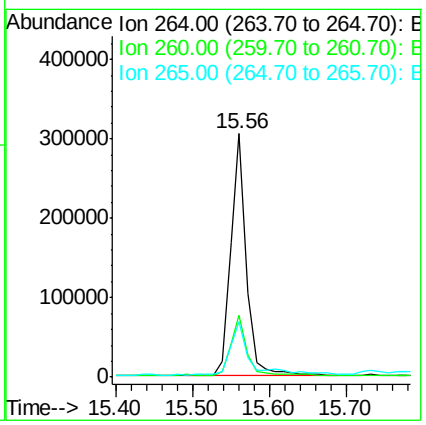


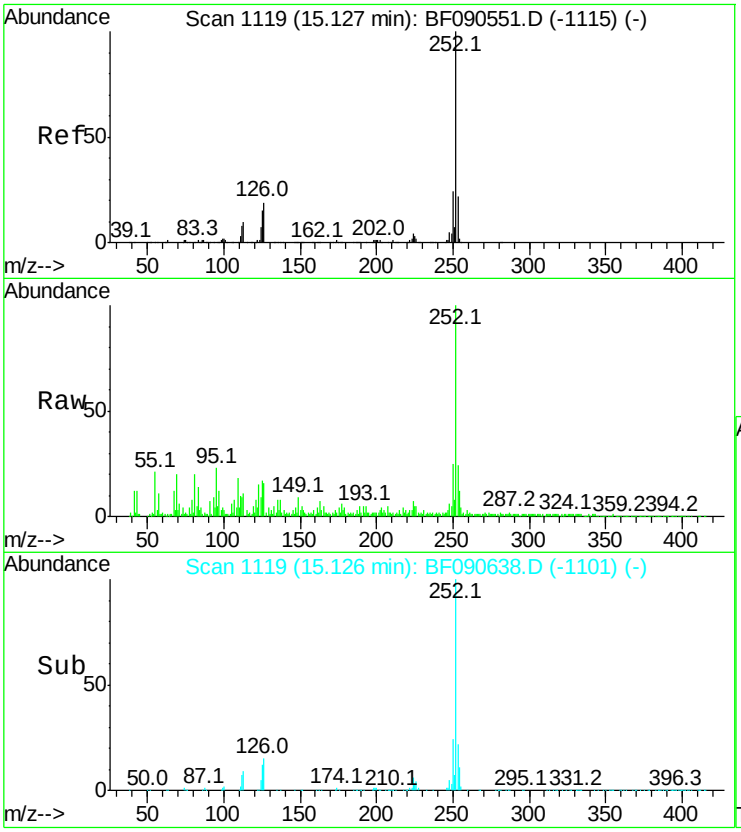




#86
Perylene-d12
Concen: 20.00 ng
RT: 15.56 min Scan# 1157
Delta R.T. 0.02 min
Lab File: BF090638.D
Acq: 18 Oct 2016 19:58

Tgt Ion:264 Resp: 443996

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 25.2 | 19.3 | 28.9 |
| 265 | 22.8 | 16.7 | 25.1 |



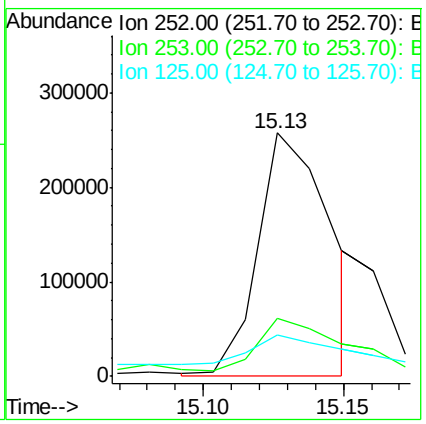


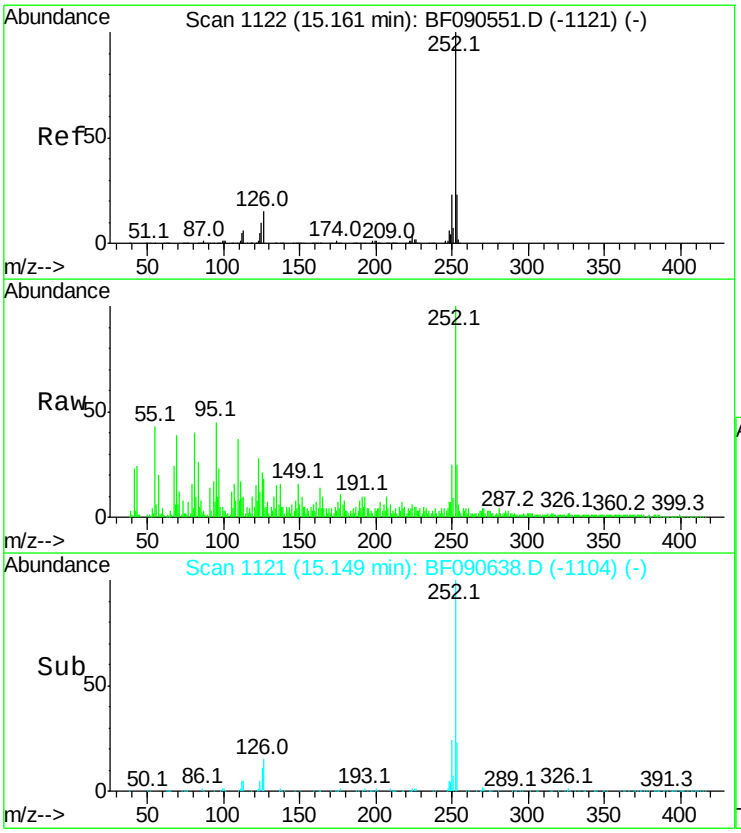

#87
Benzo(b)fluoranthene
Concen: 15.94 ng m
RT: 15.13 min Scan# 1119
Delta R.T. 0.01 min
Lab File: BF090638.D
Acq: 18 Oct 2016 19:58

**Instrument :**
BNA_F
**ClientSampleId :**
SP-1-1

Tgt Ion:252 Resp: 463033

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 23.9 | 17.8 | 26.8 |
| 125 | 17.2 | 12.0 | 18.0 |

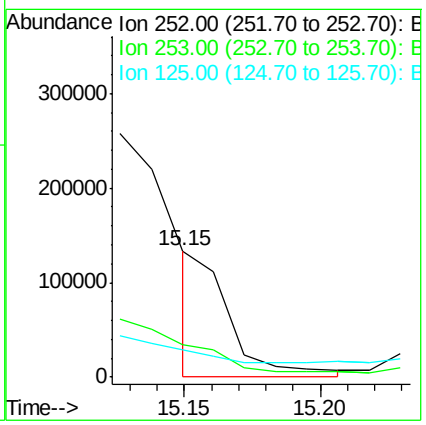


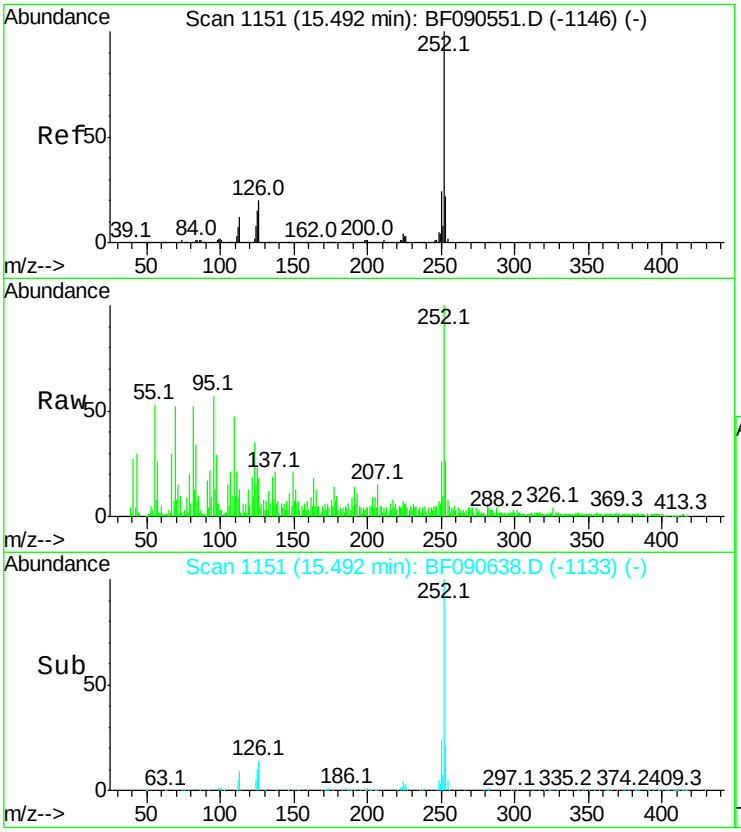




#88
Benzo(k)fluoranthene
Concen: 3.55 ng m
RT: 15.15 min Scan# 1121
Delta R.T. -0.00 min
Lab File: BF090638.D
Acq: 18 Oct 2016 19:58

Tgt Ion:252 Resp: 110997

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 25.5 | 18.0 | 27.0 |
| 125 | 21.5 | 10.0 | 15.0# |



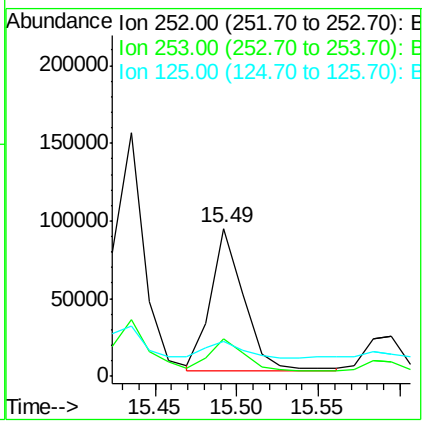


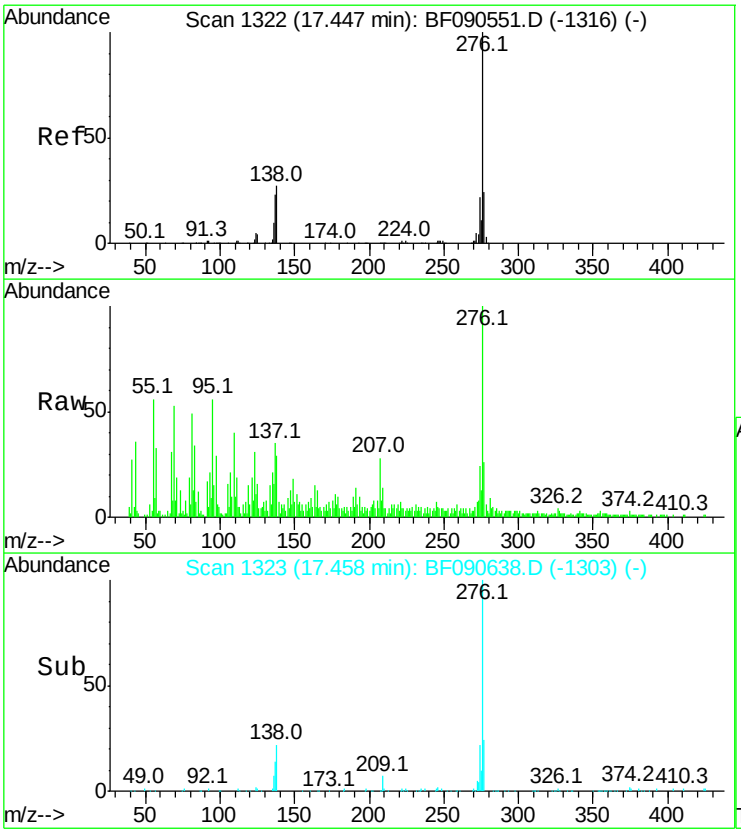

#89
Benzo(a)pyrene
Concen: 4.96 ng
RT: 15.49 min Scan# 1151
Delta R.T. 0.01 min
Lab File: BF090638.D
Acq: 18 Oct 2016 19:58

**Instrument :**
BNA_F
**ClientSampleId :**
SP-1-1

Tgt Ion:252 Resp: 131953

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 25.6 | 17.9 | 26.9 |
| 125 | 23.5 | 12.3 | 18.5# |




#91
Benzo(g,h,i)perylene
Concen: 4.67 ng
RT: 17.46 min Scan# 1323
Delta R.T. 0.03 min
Lab File: BF090638.D
Acq: 18 Oct 2016 19:58

Tgt Ion:276 Resp: 90339

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 26.5 | 18.8 | 28.2 |
| 138 | 28.7 | 21.8 | 32.8 |