Quantitation Report (Not Reviewed)

Data Path : Z:\HPCHEM1\BNA F\Data\BF051216\
Data File : BF086970.D
Acq On : 13 May 2016 12:28
Operator : UM/SJ
Sample : H2994-03DL 5X
Misc :
ALS Vial : 48 Sample Multiplier: 1

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

Quant Time: May 13 14:56:00 2016
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri May 13 14:55:23 2016
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 6.62 | 152 | 131744 | 20.00 | ng | | -0.08 |
| 21) Naphthalene-d8 | 7.91 | 136 | 523099 | 20.00 | ng | | -0.08 |
| 38) Acenaphthene-d10 | 9.66 | 164 | 220254 | 20.00 | ng | | -0.08 |
| 63) Phenanthrene-d10 | 11.13 | 188 | 341558 | 20.00 | ng | | -0.08 |
| 75) Chrysene-d12 | 13.76 | 240 | 299495 | 20.00 | ng | | -0.08 |
| 86) Perylene-d12 | 15.12 | 264 | 255420 | 20.00 | ng | | -0.09 |
| **System Monitoring Compounds** | | | | | | | |
| 5) 2-Fluorophenol | 5.21 | 112 | 196237 | 25.23 | ng | | -0.08 |
| 7) Phenol-d6 | 6.28 | 99 | 252683 | 24.30 | ng | | -0.08 |
| 23) Nitrobenzene-d5 | 7.19 | 82 | 165955 | 15.93 | ng | | -0.08 |
| 41) 2,4,6-Tribromophenol | 10.44 | 330 | 44395 | 19.04 | ng | | -0.08 |
| 44) 2-Fluorobiphenyl | 8.98 | 172 | 277538 | 21.18 | ng | | -0.08 |
| 78) Terphenyl-d14 | 12.72 | 244 | 207270 | 14.68 | ng | | -0.08 |
| **Target Compounds** | | | | | | | Qvalue |
| 19) n-Nitroso-di-n-propylamine | 7.19 | 70 | 22363 | 3.08 | ng | # | 64 |
| 25) Isophorone | 7.19 | 82 | 158357 | 8.19 | ng | # | 68 |
| 48) Acenaphthylene | 9.52 | 152 | 104266 | 5.16 | ng | | 98 |
| 50) 2,6-Dinitrotoluene | 9.66 | 165 | 28883 | 8.17 | ng | # | 21 |
| 55) 4-Nitrophenol | 9.86 | 139 | 5174 | 6.53 | ng | # | 18 |
| 56) 2,4-Dinitrotoluene | 9.66 | 165 | 29199 | 6.67 | ng | # | 16 |
| 70) Phenanthrene | 11.15 | 178 | 192349 | 10.55 | ng | | 99 |
| 71) Anthracene | 11.21 | 178 | 87105 | 4.67 | ng | | 99 |
| 74) Fluoranthene | 12.34 | 202 | 479585 | 25.58 | ng | | 92 |
| 77) Pyrene | 12.57 | 202 | 377846 | 16.48 | ng | | 98 |
| 80) Benzo(a)anthracene | 13.75 | 228 | 277113 | 16.48 | ng | # | 92 |
| 82) Chrysene | 13.75 | 228 | 277113 | 16.20 | ng | | 93 |
| 85) Indeno(1,2,3-cd)pyrene | 16.38 | 276 | 83324 | 5.86 | ng | # | 92 |
| 87) Benzo(b)fluoranthene | 14.75 | 252 | 382854 | 23.06 | ng | | 97 |
| 88) Benzo(k)fluoranthene | 14.75 | 252 | 382854 | 28.17 | ng | | 97 |
| 89) Benzo(a)pyrene | 15.07 | 252 | 159406 | 11.13 | ng | | 96 |
| 91) Benzo(g,h,i)perylene | 16.74 | 276 | 65739 | 5.36 | ng | | 97 |

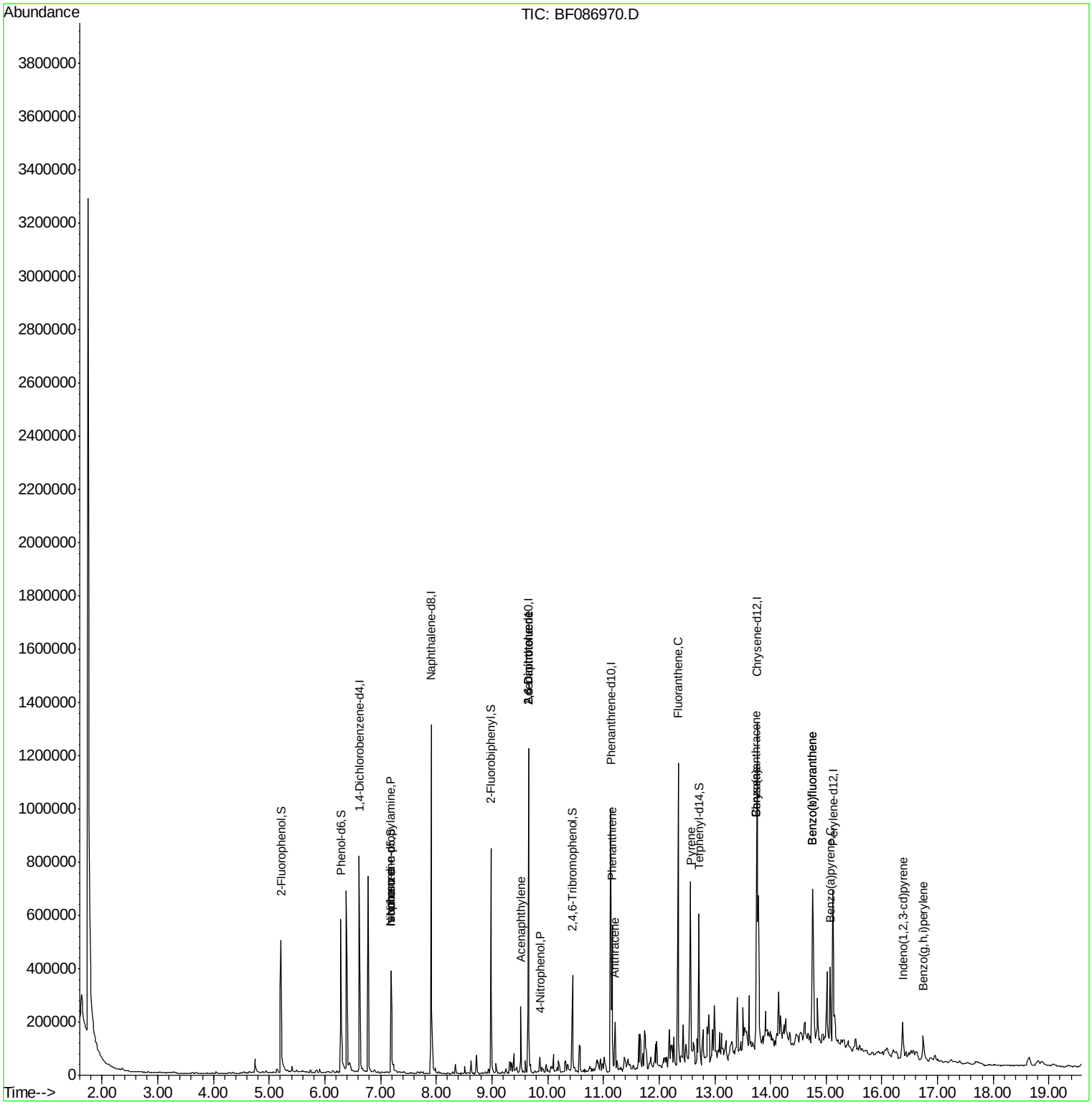
(#) = qualifier out of range (m) = manual integration (+) = signals summed

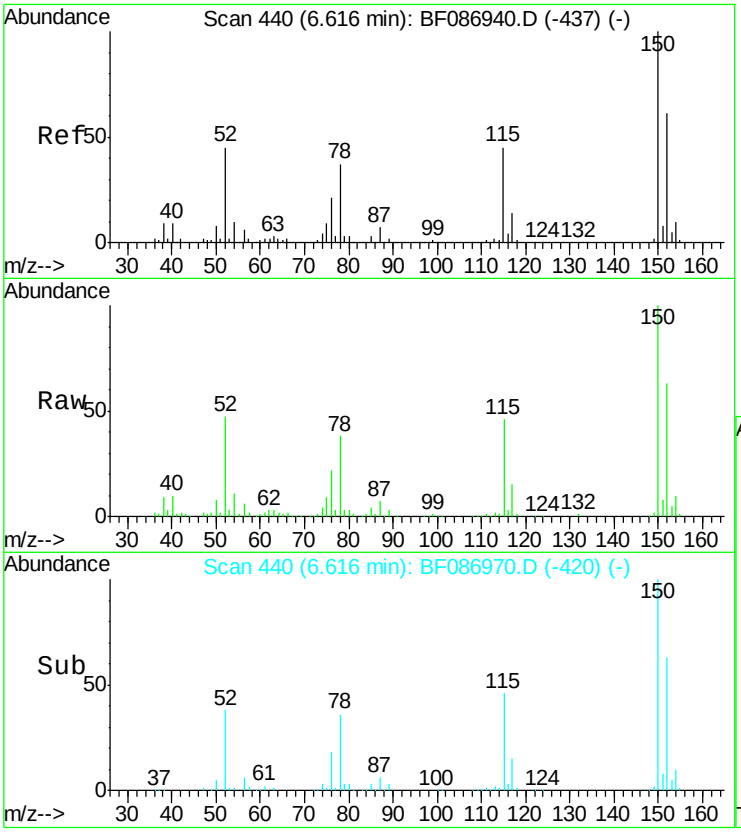
Quantitation Report (Not Reviewed)

Data Path : Z:\HPCHEM1\BNA F\Data\BF051216\
Data File : BF086970.D
Acq On : 13 May 2016 12:28
Operator : UM/SJ
Sample : H2994-03DL 5X
Misc :
ALS Vial : 48 Sample Multiplier: 1

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

Quant Time: May 13 14:56:00 2016
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri May 13 14:55:23 2016
Response via : Initial Calibration



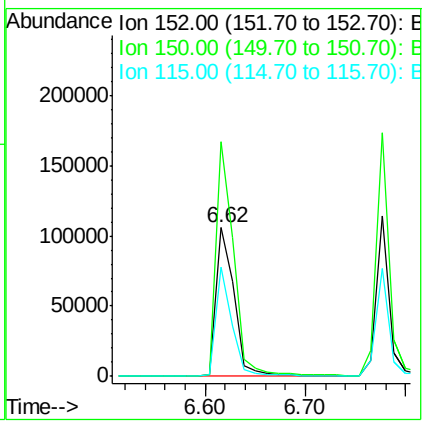


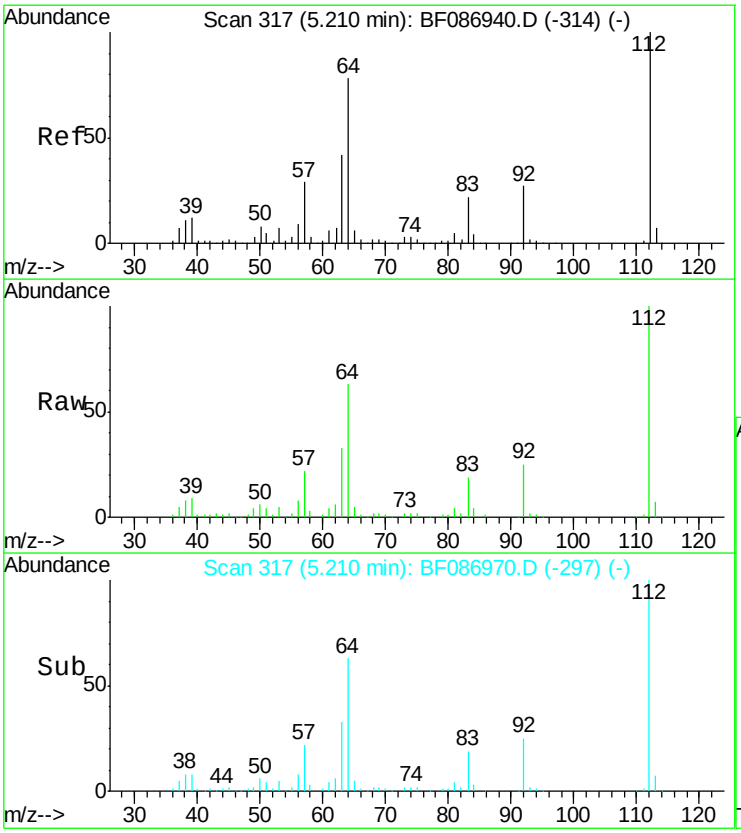

#1
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.62 min Scan# 440
Delta R.T. -0.08 min
Lab File: BF086970.D
Acq: 13 May 2016 12:28

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

Tgt Ion:152 Resp: 131744

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 158.1 | 125.8 | 188.6 |
| 115 | 73.4 | 51.5 | 77.3 |

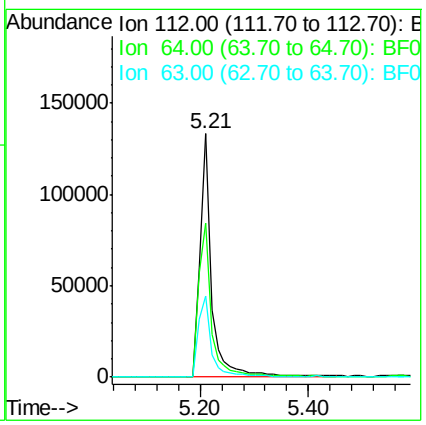


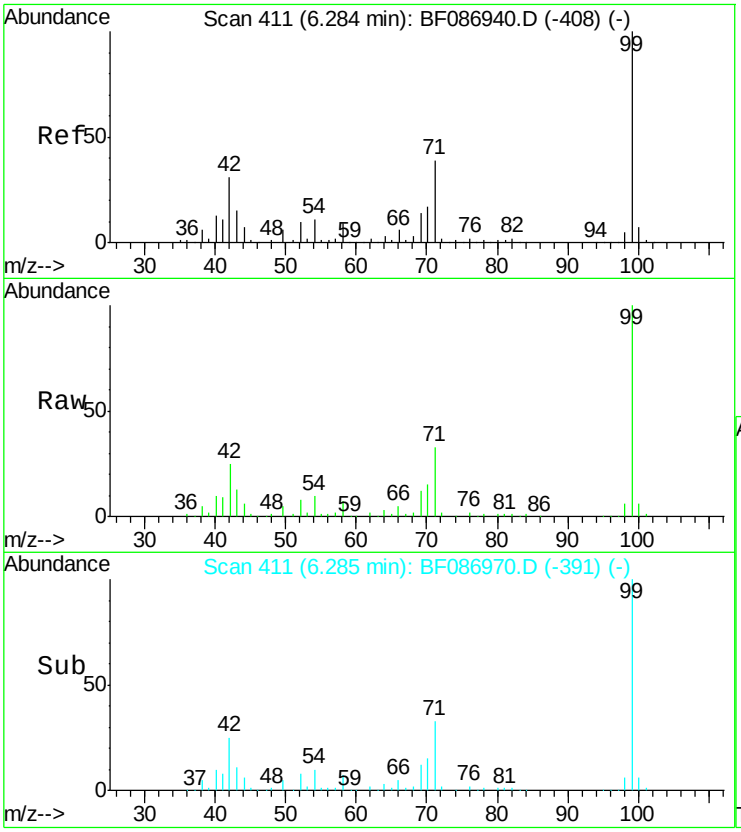




#5
2-Fluorophenol
Concen: 25.23 ng
RT: 5.21 min Scan# 317
Delta R.T. -0.08 min
Lab File: BF086970.D
Acq: 13 May 2016 12:28

Tgt Ion:112 Resp: 196237

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 63.2 | 52.1 | 78.1 |
| 63 | 33.4 | 25.7 | 38.5 |



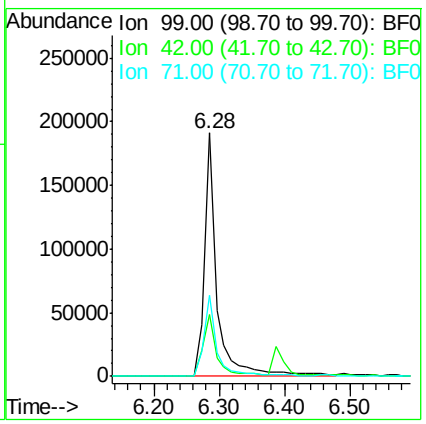


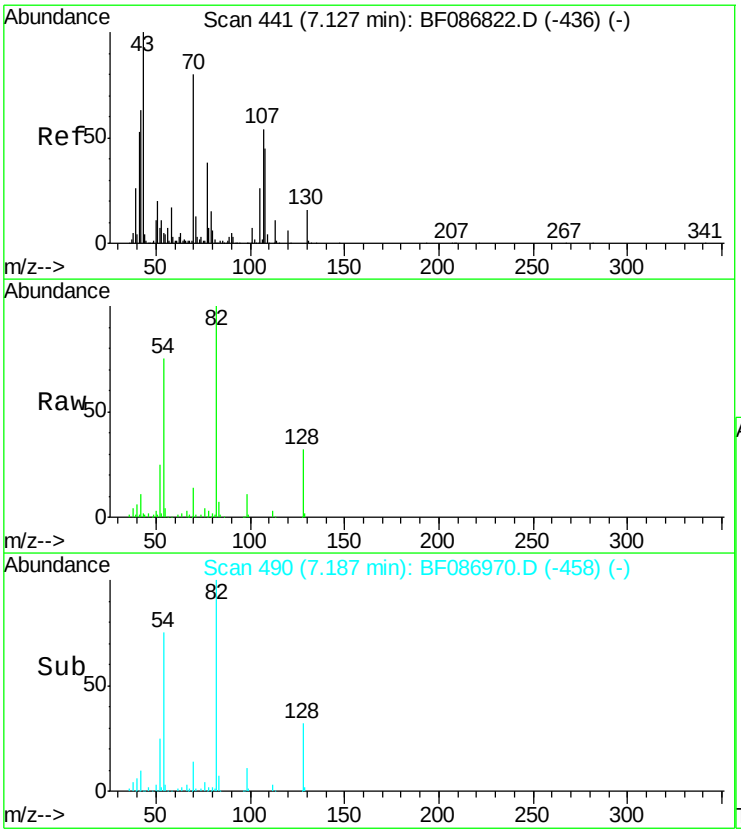

#7
Phenol-d6
Concen: 24.30 ng
RT: 6.28 min Scan# 411
Delta R.T. -0.08 min
Lab File: BF086970.D
Acq: 13 May 2016 12:28

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

Tgt Ion: 99 Resp: 252683

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 25.5 | 13.6 | 20.4# |
| 71 | 33.3 | 24.6 | 36.8 |

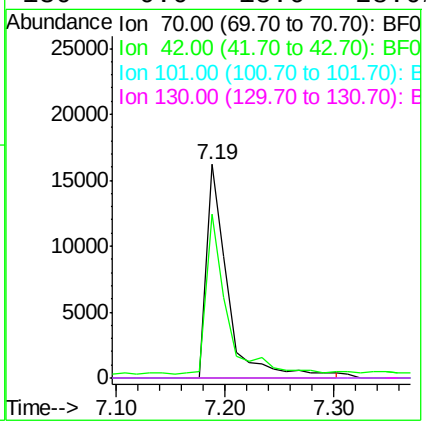


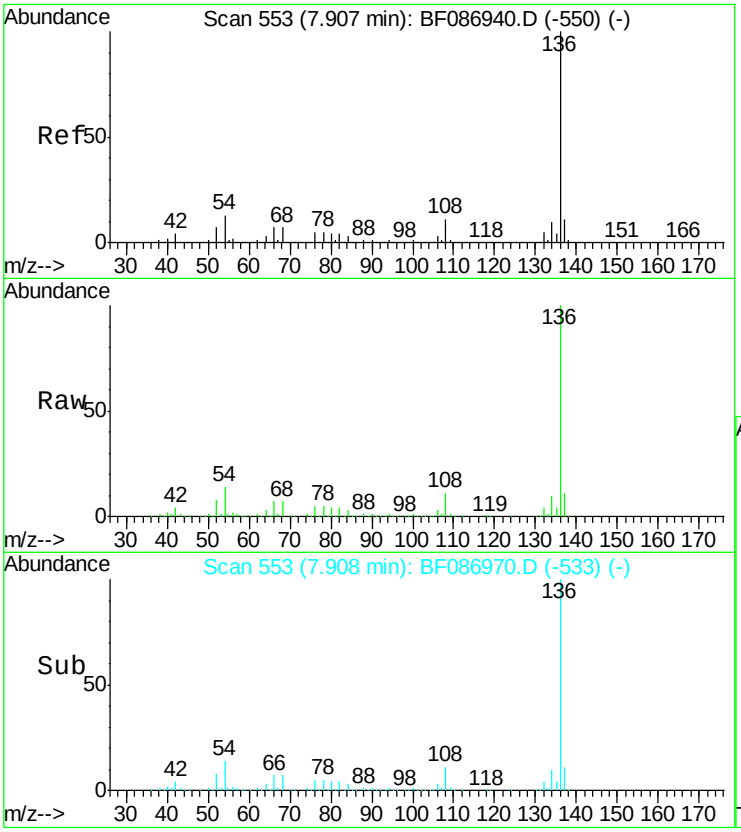




#19
n-Nitroso-di-n-propylamine
Concen: 3.08 ng
RT: 7.19 min Scan# 490
Delta R.T. 0.06 min
Lab File: BF086970.D
Acq: 13 May 2016 12:28

Tgt Ion: 70 Resp: 22363

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 70 | 100 | | |
| 42 | 77.0 | 43.1 | 64.7# |
| 101 | 0.0 | 8.1 | 12.1# |
| 130 | 0.0 | 18.6 | 28.0# |



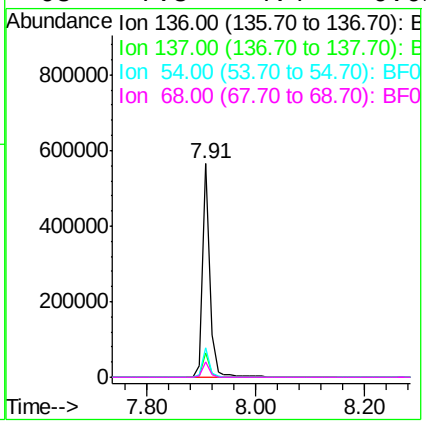


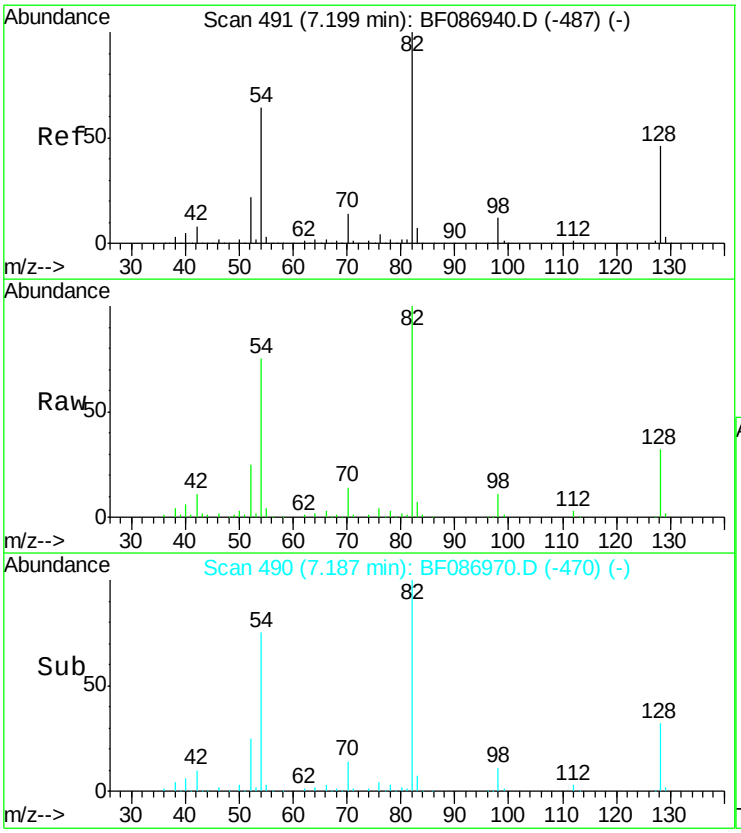

#21
Naphthalene-d8
Concen: 20.00 ng
RT: 7.91 min Scan# 553
Delta R.T. -0.08 min
Lab File: BF086970.D
Acq: 13 May 2016 12:28

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

Tgt Ion:136 Resp: 523099

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.2 | 8.8 | 13.2 |
| 54 | 13.7 | 5.0 | 7.4# |
| 68 | 7.3 | 4.4 | 6.6# |

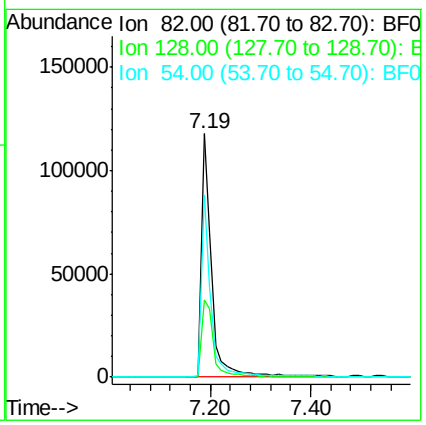


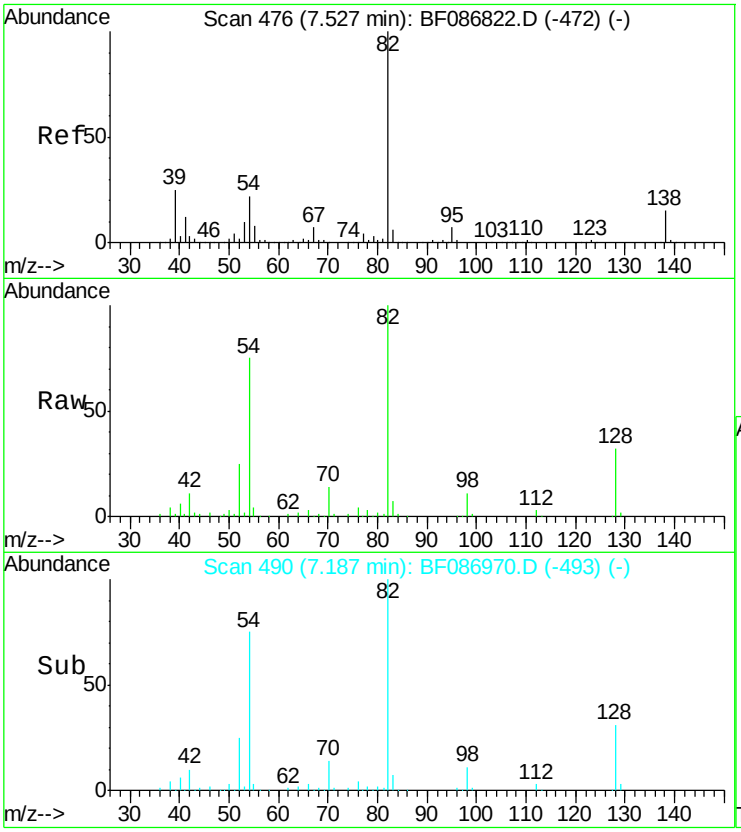




#23
Nitrobenzene-d5
Concen: 15.93 ng
RT: 7.19 min Scan# 490
Delta R.T. -0.08 min
Lab File: BF086970.D
Acq: 13 May 2016 12:28

Tgt Ion: 82 Resp: 165955

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 31.5 | 40.6 | 61.0# |
| 54 | 75.0 | 38.1 | 57.1# |



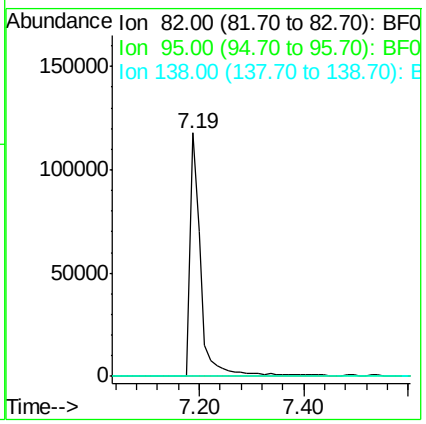


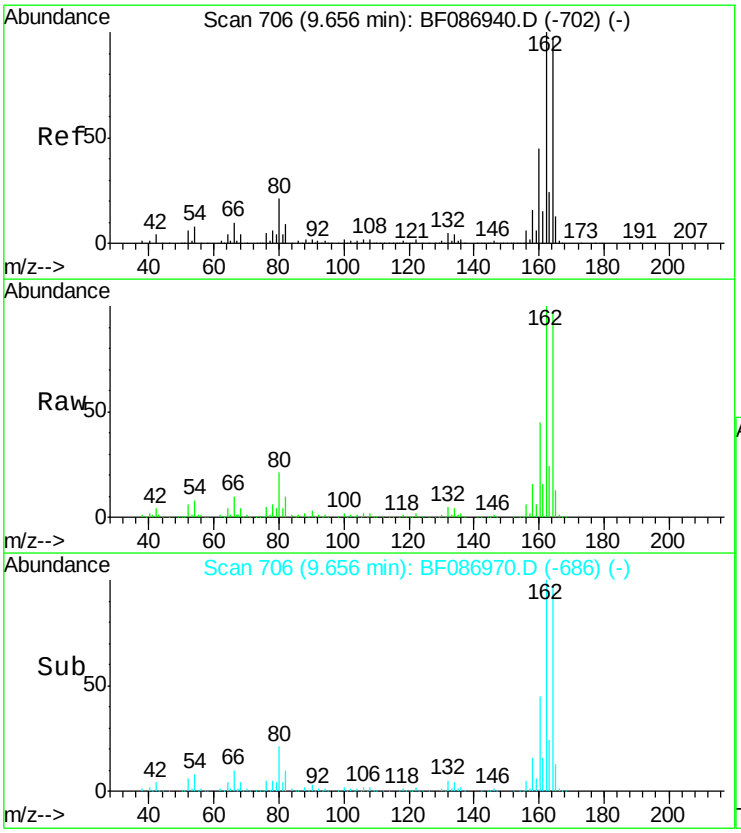

#25
Isophorone
Concen: 8.19 ng
RT: 7.19 min Scan# 490
Delta R.T. -0.34 min
Lab File: BF086970.D
Acq: 13 May 2016 12:28

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

Tgt Ion: 82 Resp: 158357

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 95 | 0.0 | 5.1 | 7.7# |
| 138 | 0.0 | 12.4 | 18.6# |

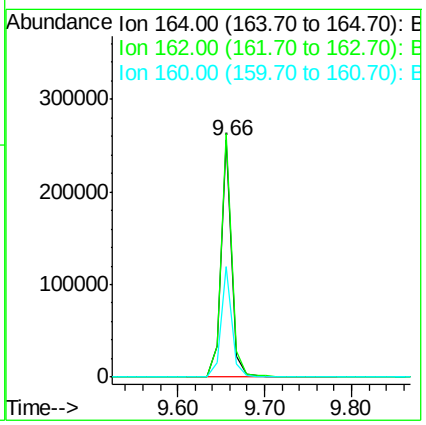


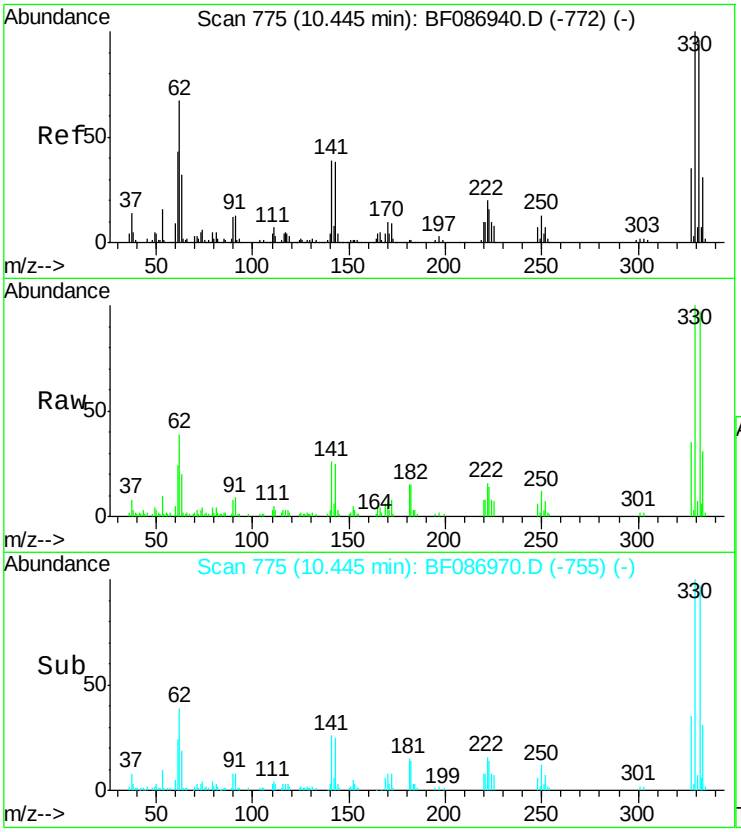




#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.66 min Scan# 706
Delta R.T. -0.08 min
Lab File: BF086970.D
Acq: 13 May 2016 12:28

Tgt Ion:164 Resp: 220254

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 102.7 | 82.8 | 124.2 |
| 160 | 46.4 | 36.9 | 55.3 |



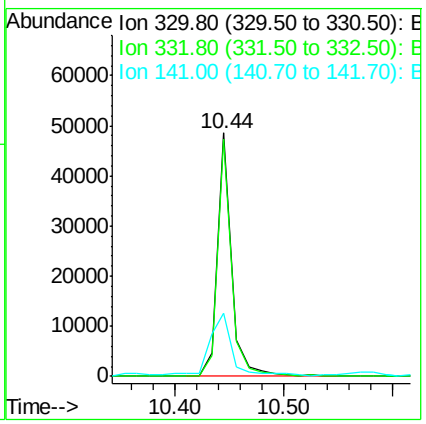


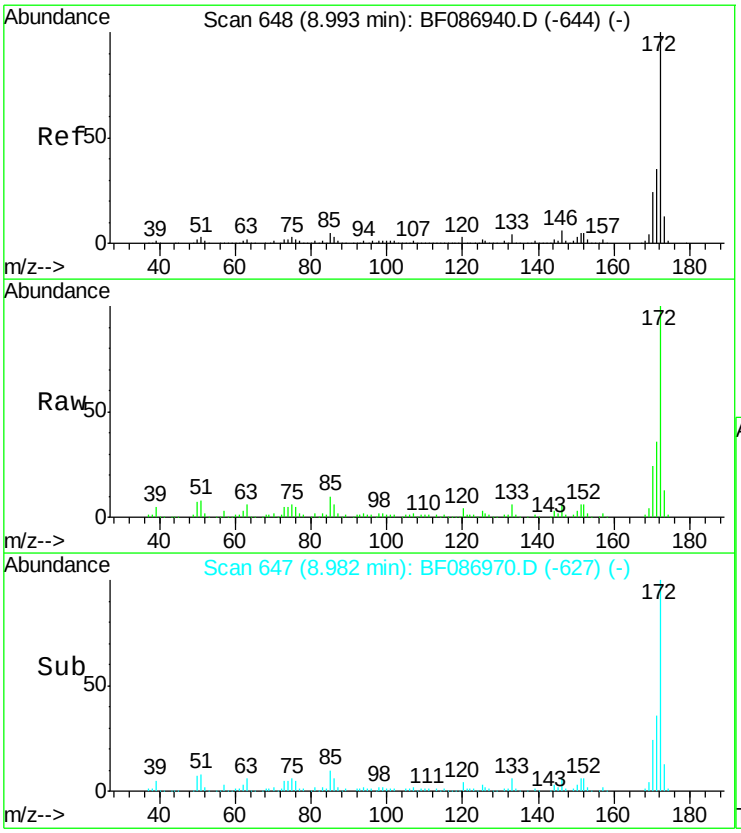

#41
2,4,6-Tribromophenol
Concen: 19.04 ng
RT: 10.44 min Scan# 775
Delta R.T. -0.08 min
Lab File: BF086970.D
Acq: 13 May 2016 12:28

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

Tgt Ion:330 Resp: 44395

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 96.2 | 79.0 | 118.4 |
| 141 | 42.9 | 31.2 | 46.8 |

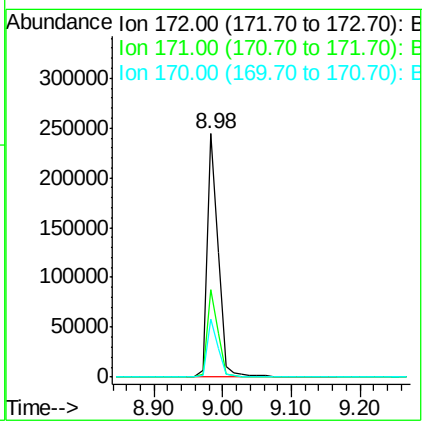


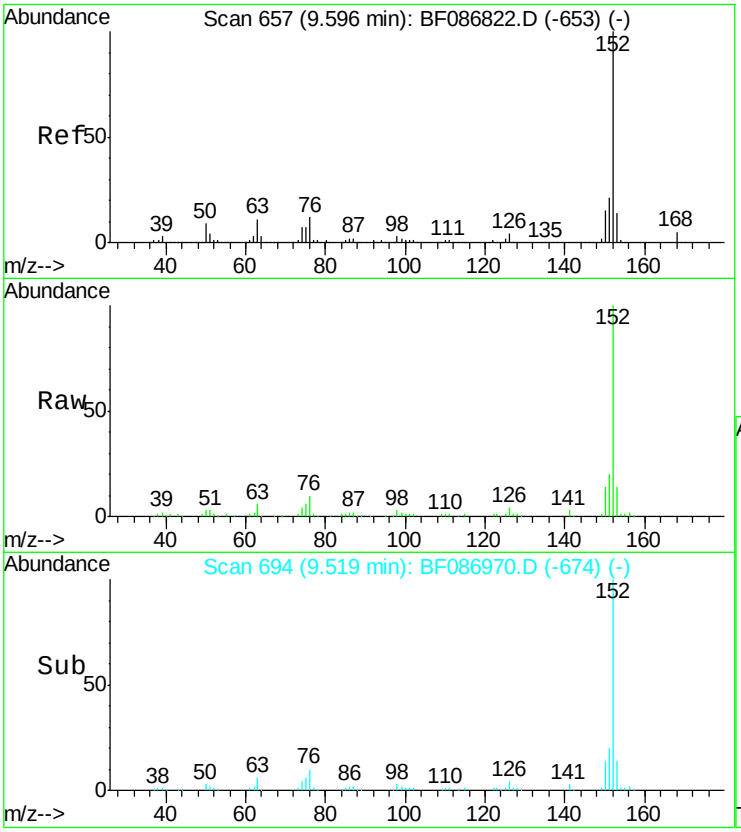




#44
2-Fluorobiphenyl
Concen: 21.18 ng
RT: 8.98 min Scan# 647
Delta R.T. -0.08 min
Lab File: BF086970.D
Acq: 13 May 2016 12:28

Tgt Ion:172 Resp: 277538

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.7 | 29.0 | 43.6 |
| 170 | 23.7 | 19.8 | 29.8 |



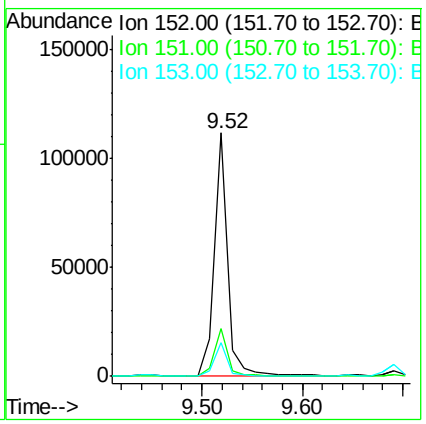


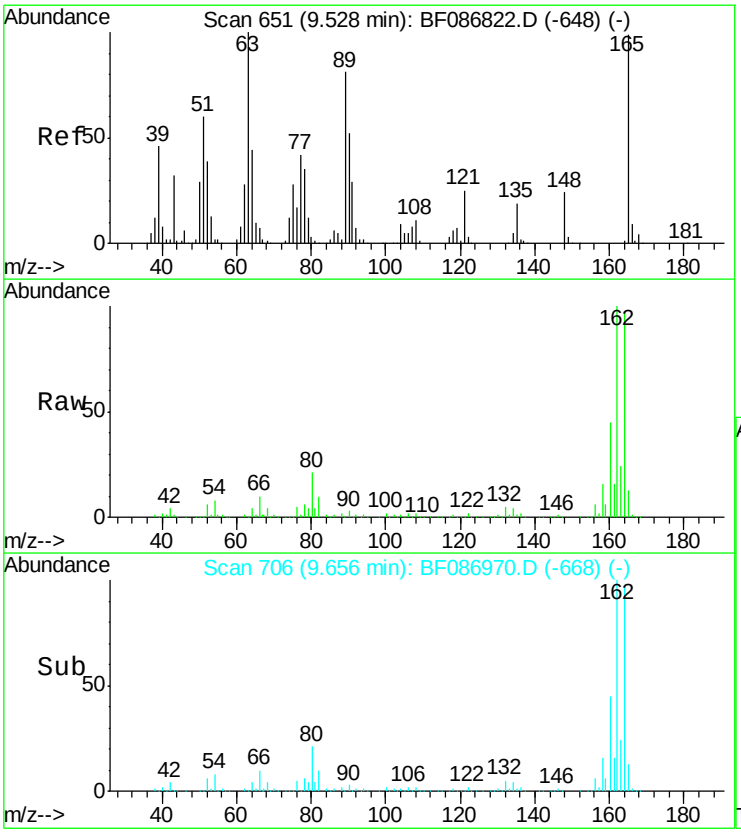

#48
Acenaphthylene
Concen: 5.16 ng
RT: 9.52 min Scan# 694
Delta R.T. -0.08 min
Lab File: BF086970.D
Acq: 13 May 2016 12:28

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

Tgt Ion:152 Resp: 104266

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 19.6 | 16.8 | 25.2 |
| 153 | 13.8 | 10.9 | 16.3 |

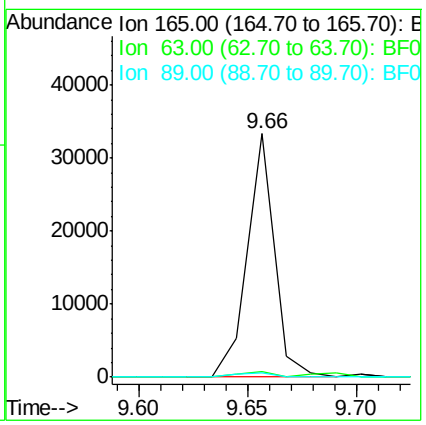


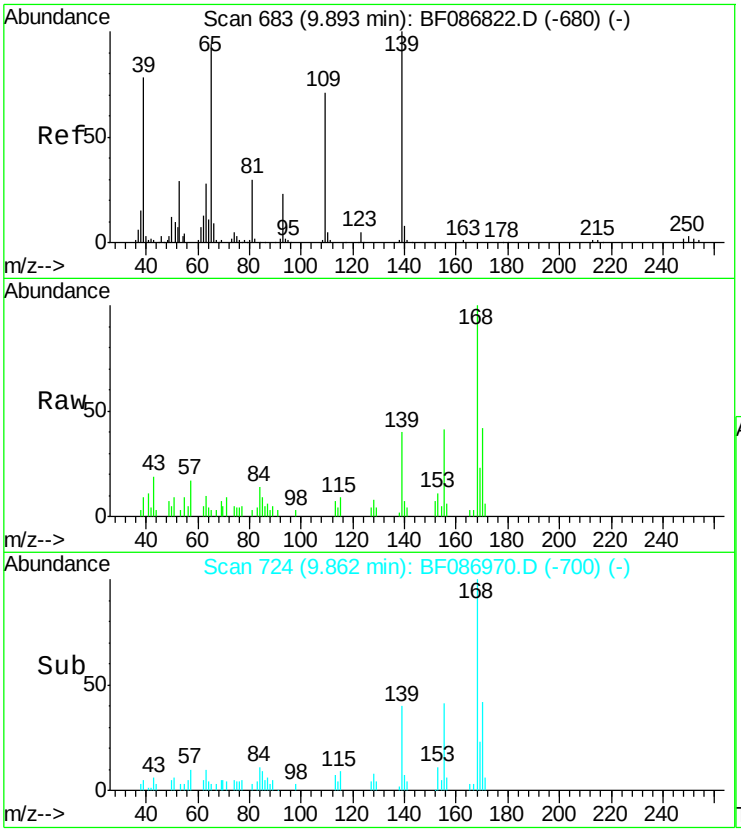




#50
2,6-Dinitrotoluene
Concen: 8.17 ng
RT: 9.66 min Scan# 706
Delta R.T. 0.13 min
Lab File: BF086970.D
Acq: 13 May 2016 12:28

Tgt Ion:165 Resp: 28883

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 63 | 2.5 | 51.8 | 77.8# |
| 89 | 1.9 | 50.7 | 76.1# |



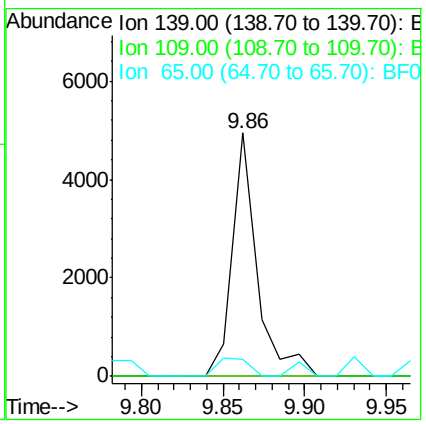


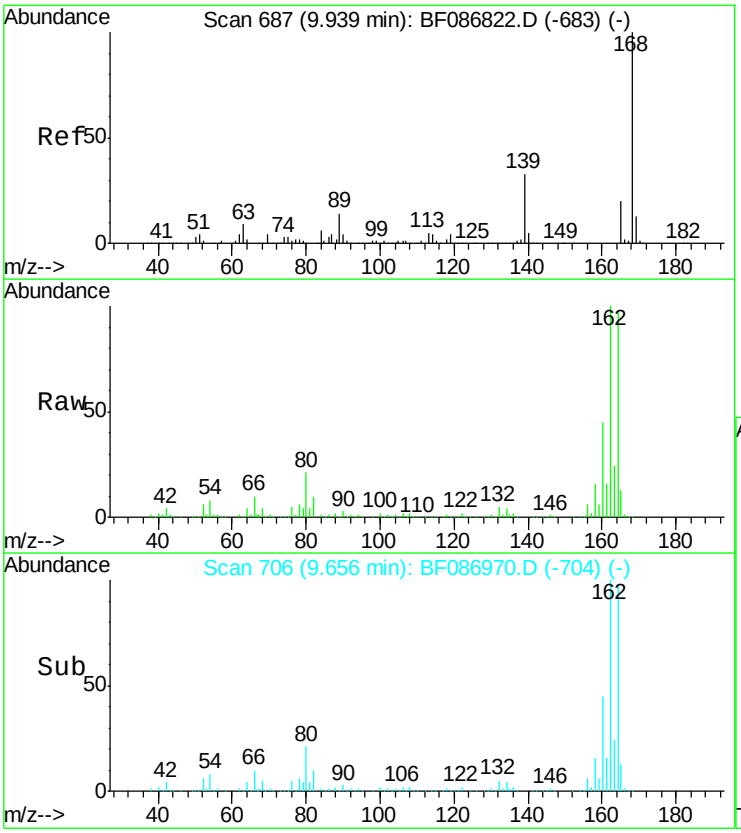

#55
4-Nitrophenol
Concen: 6.53 ng
RT: 9.86 min Scan# 724
Delta R.T. -0.03 min
Lab File: BF086970.D
Acq: 13 May 2016 12:28

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

Tgt Ion:139 Resp: 5174

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 139 | 100 | | |
| 109 | 0.0 | 36.9 | 76.9# |
| 65 | 7.2 | 64.0 | 104.0# |

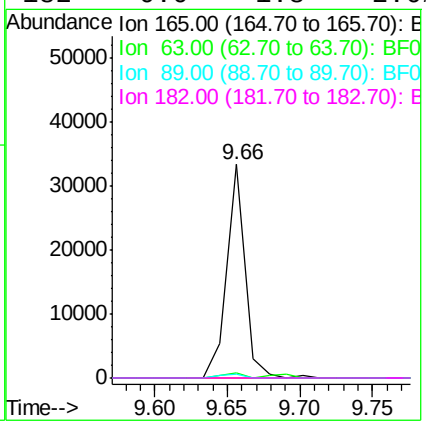


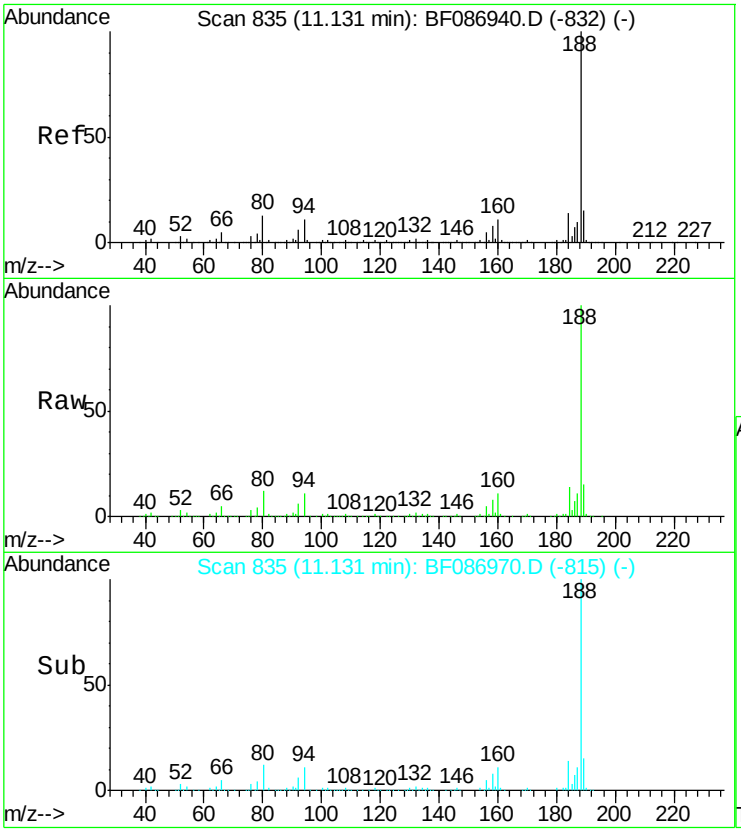




#56
2,4-Dinitrotoluene
Concen: 6.67 ng
RT: 9.66 min Scan# 706
Delta R.T. -0.28 min
Lab File: BF086970.D
Acq: 13 May 2016 12:28

Tgt Ion:165 Resp: 29199

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 63 | 2.5 | 44.3 | 66.5# |
| 89 | 1.9 | 70.0 | 105.0# |
| 182 | 0.0 | 1.8 | 2.6# |



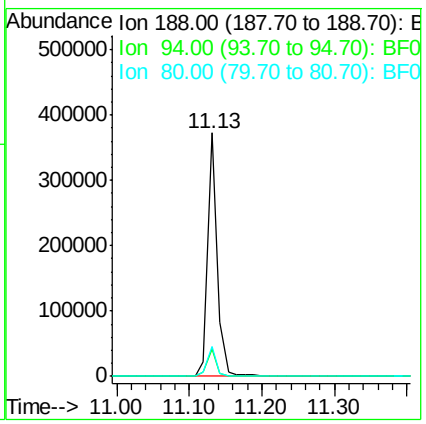


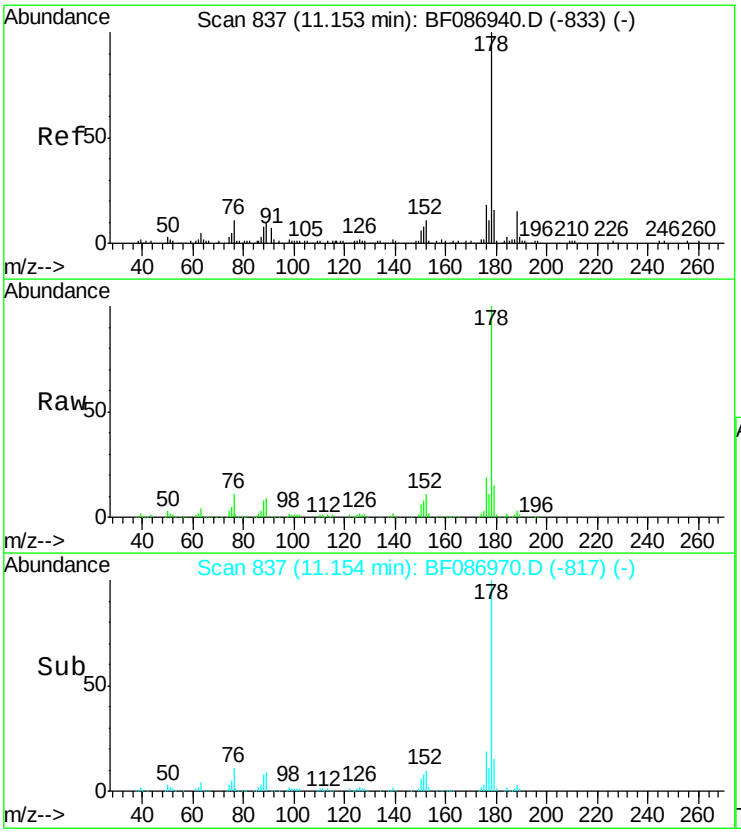

#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.13 min Scan# 835
Delta R.T. -0.08 min
Lab File: BF086970.D
Acq: 13 May 2016 12:28

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

Tgt Ion:188 Resp: 341558

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 11.2 | 6.8 | 10.2# |
| 80 | 12.1 | 7.1 | 10.7# |

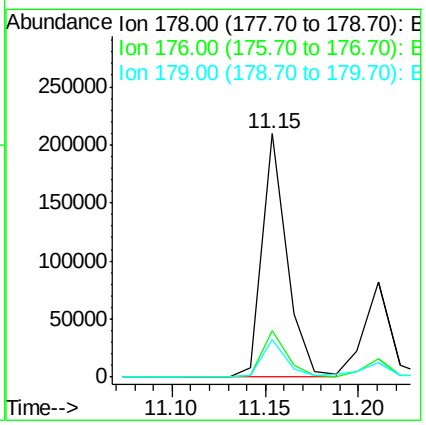


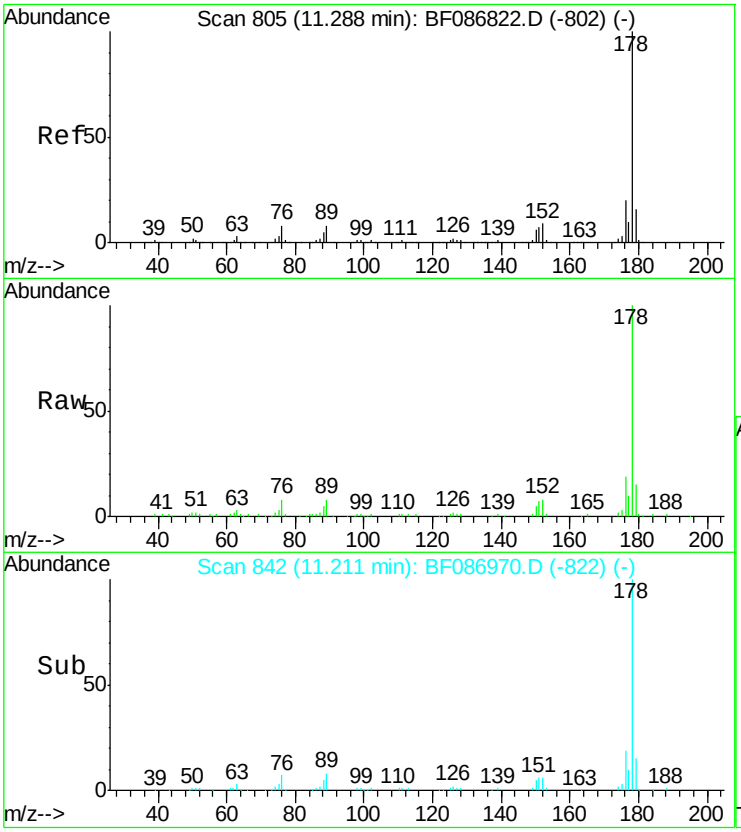




#70
Phenanthrene
Concen: 10.55 ng
RT: 11.15 min Scan# 837
Delta R.T. -0.08 min
Lab File: BF086970.D
Acq: 13 May 2016 12:28

Tgt Ion:178 Resp: 192349

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.3 | 16.0 | 24.0 |
| 179 | 15.2 | 12.6 | 18.8 |



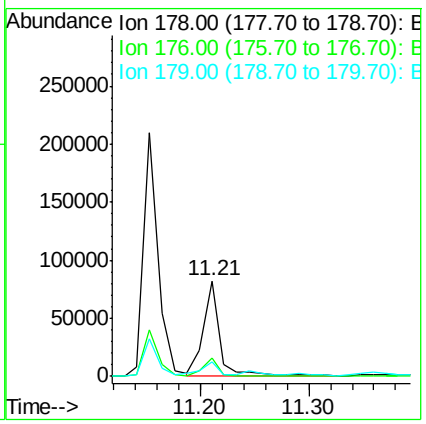


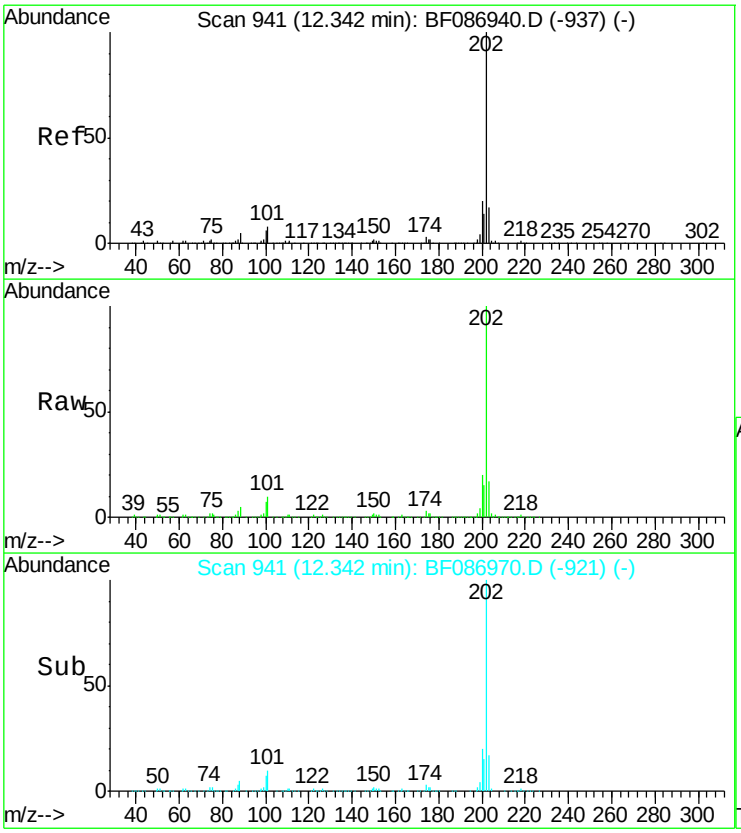

#71
Anthracene
Concen: 4.67 ng
RT: 11.21 min Scan# 842
Delta R.T. -0.08 min
Lab File: BF086970.D
Acq: 13 May 2016 12:28

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

Tgt Ion:178 Resp: 87105

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.8 | 15.6 | 23.4 |
| 179 | 15.3 | 12.7 | 19.1 |

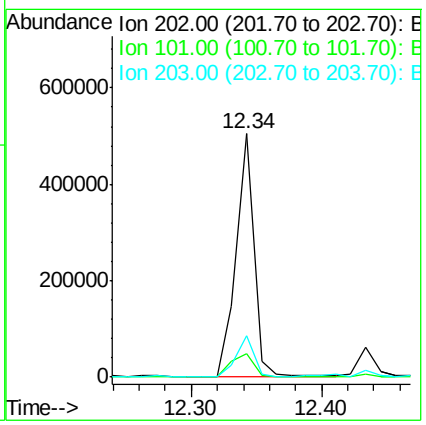


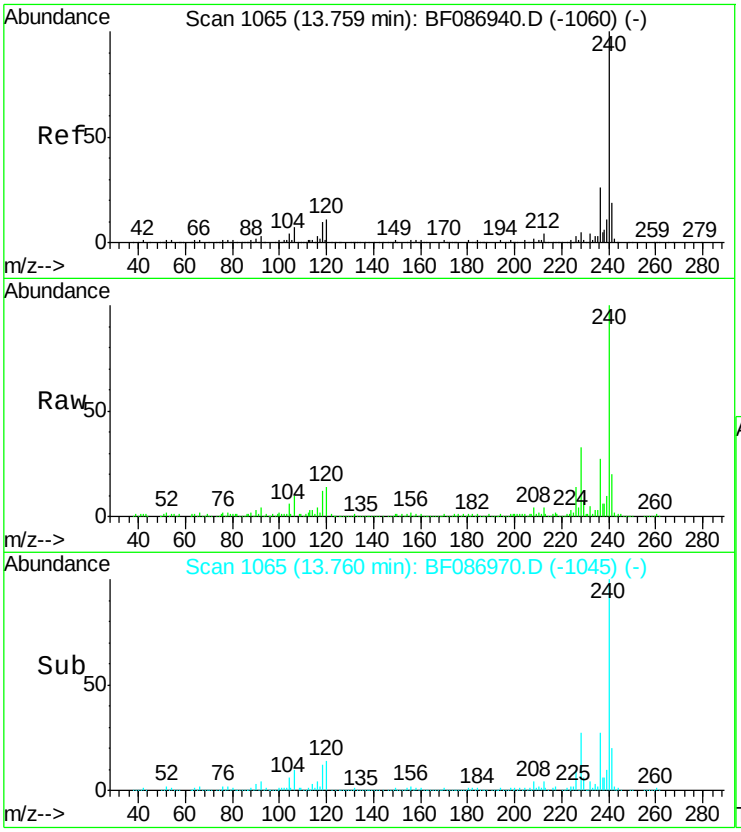




#74
Fluoranthene
Concen: 25.58 ng
RT: 12.34 min Scan# 941
Delta R.T. -0.08 min
Lab File: BF086970.D
Acq: 13 May 2016 12:28

Tgt Ion:202 Resp: 479585

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 9.7 | 0.0 | 35.4 |
| 203 | 17.1 | 0.0 | 38.1 |



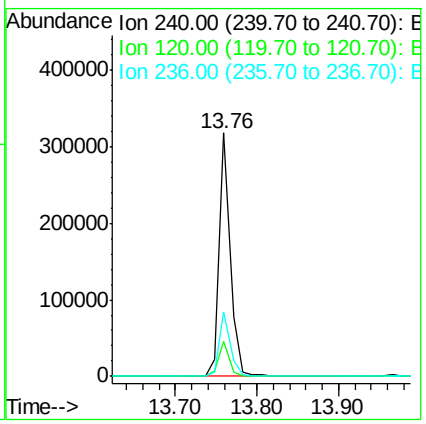


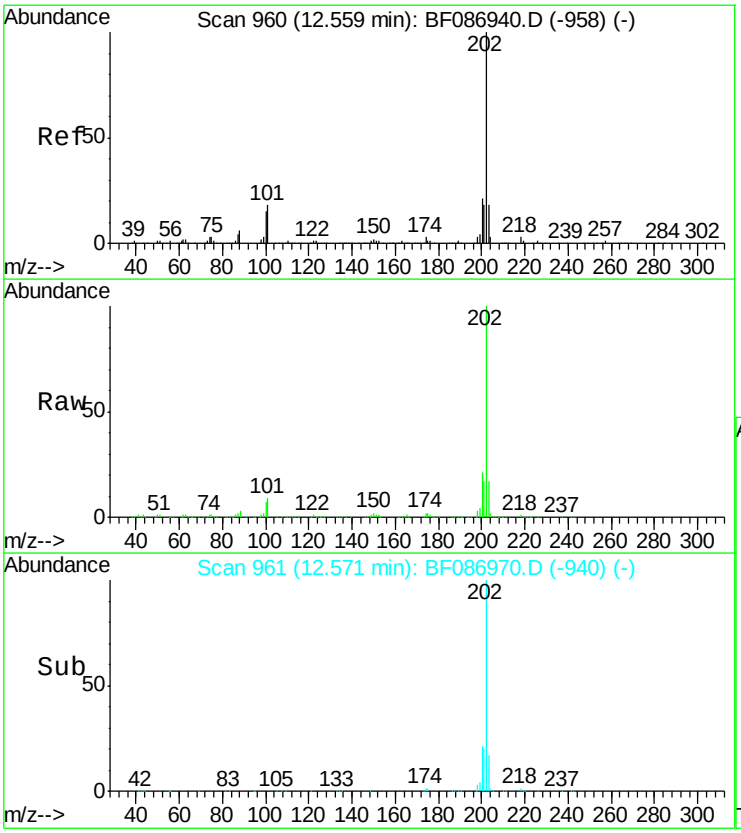

#75
Chrysene-d12
Concen: 20.00 ng
RT: 13.76 min Scan# 1065
Delta R.T. -0.08 min
Lab File: BF086970.D
Acq: 13 May 2016 12:28

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

Tgt Ion:240 Resp: 299495

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 14.2 | 11.2 | 16.8 |
| 236 | 26.7 | 21.2 | 31.8 |

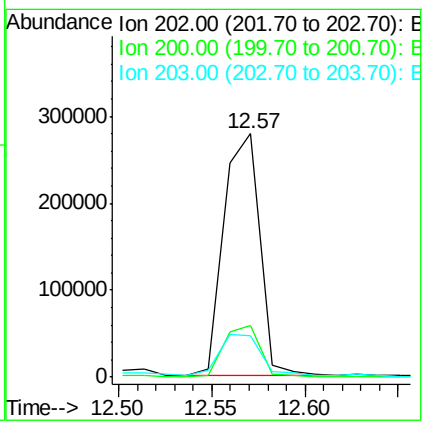


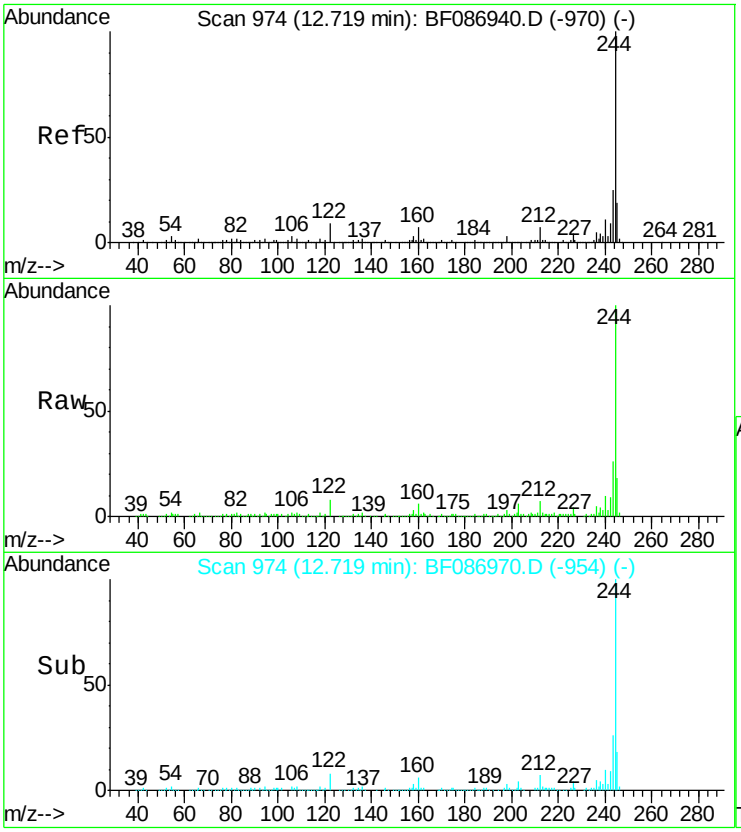




#77
Pyrene
Concen: 16.48 ng
RT: 12.57 min Scan# 961
Delta R.T. -0.07 min
Lab File: BF086970.D
Acq: 13 May 2016 12:28

Tgt Ion:202 Resp: 377846

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.1 | 17.7 | 26.5 |
| 203 | 17.2 | 14.2 | 21.4 |



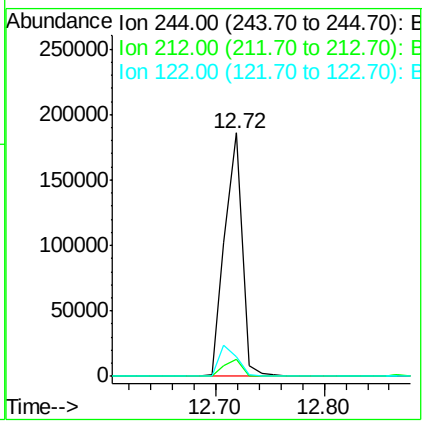


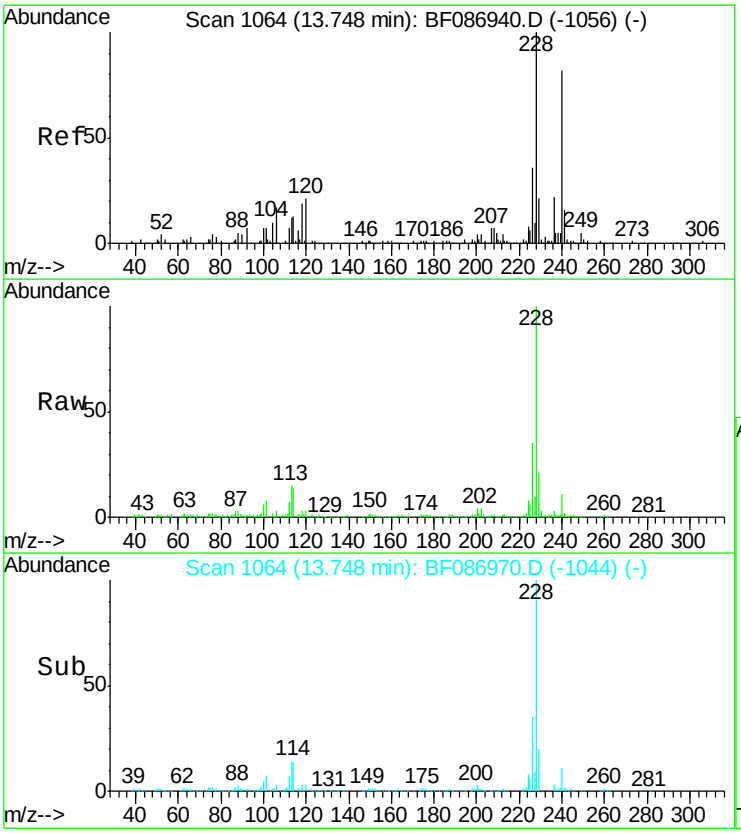

#78
Terphenyl-d14
Concen: 14.68 ng
RT: 12.72 min Scan# 974
Delta R.T. -0.08 min
Lab File: BF086970.D
Acq: 13 May 2016 12:28

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

Tgt Ion:244 Resp: 207270

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 6.8 | 6.2 | 9.2 |
| 122 | 8.0 | 12.0 | 18.0# |

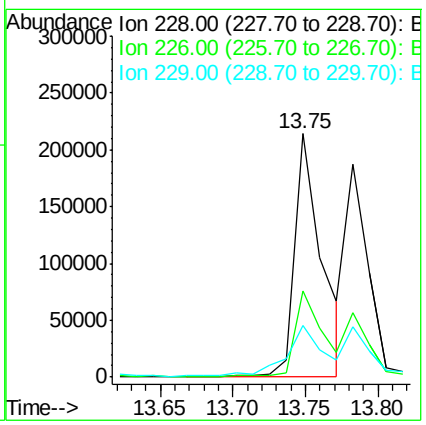


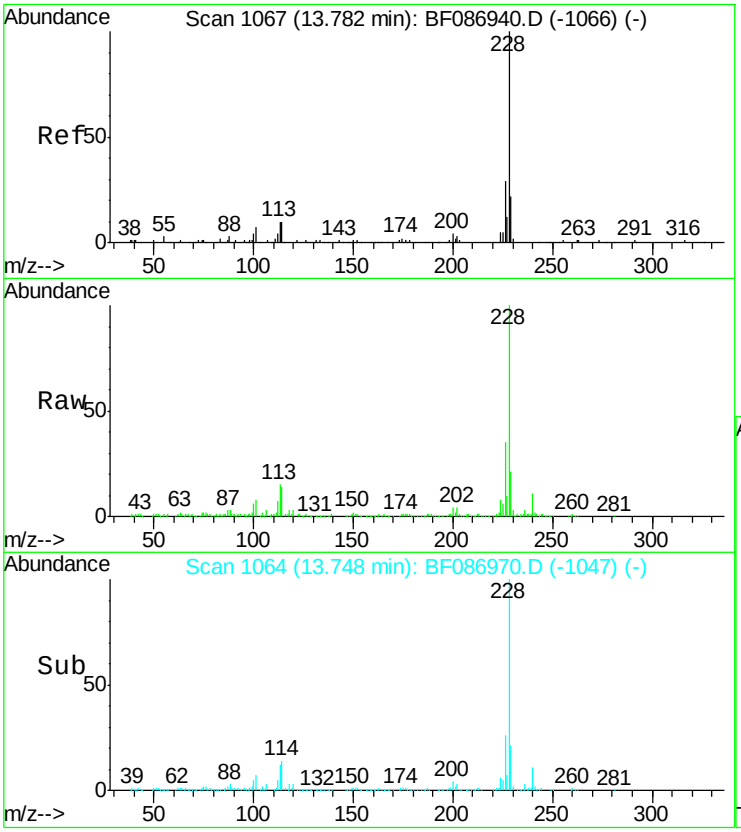




#80
Benzo(a)anthracene
Concen: 16.48 ng
RT: 13.75 min Scan# 1064
Delta R.T. -0.08 min
Lab File: BF086970.D
Acq: 13 May 2016 12:28

Tgt Ion:228 Resp: 277113

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 35.4 | 22.5 | 33.7# |
| 229 | 21.3 | 16.6 | 25.0 |



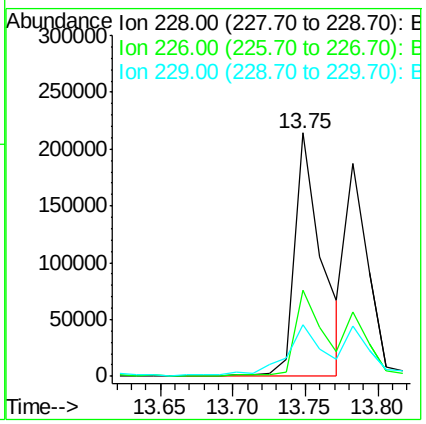


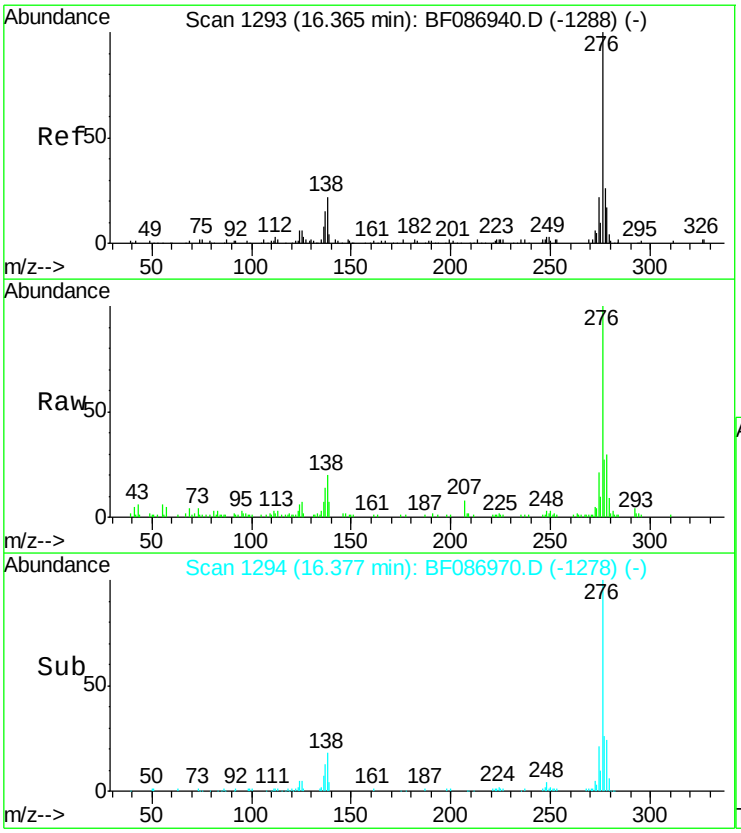

#82
Chrysene
Concen: 16.20 ng
RT: 13.75 min Scan# 1064
Delta R.T. -0.11 min
Lab File: BF086970.D
Acq: 13 May 2016 12:28

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

Tgt Ion:228 Resp: 277113

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 35.4 | 24.4 | 36.6 |
| 229 | 21.3 | 15.8 | 23.8 |

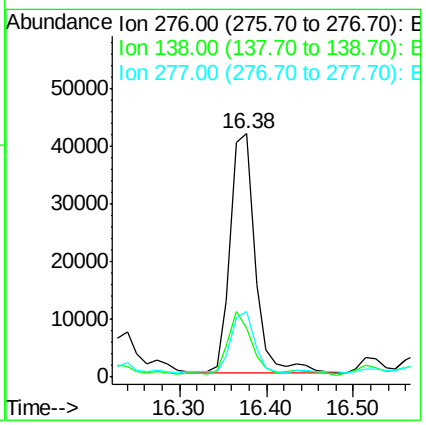


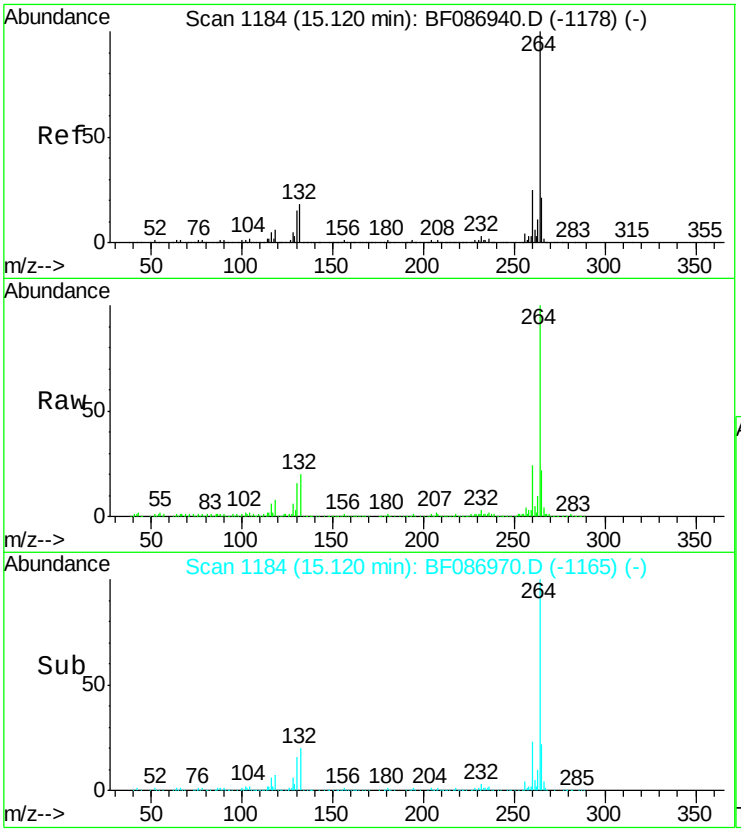




#85
Indeno(1,2,3-cd)pyrene
Concen: 5.86 ng
RT: 16.38 min Scan# 1294
Delta R.T. -0.12 min
Lab File: BF086970.D
Acq: 13 May 2016 12:28

Tgt Ion:276 Resp: 83324

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 25.0 | 25.6 | 38.4# |
| 277 | 24.2 | 20.5 | 30.7 |



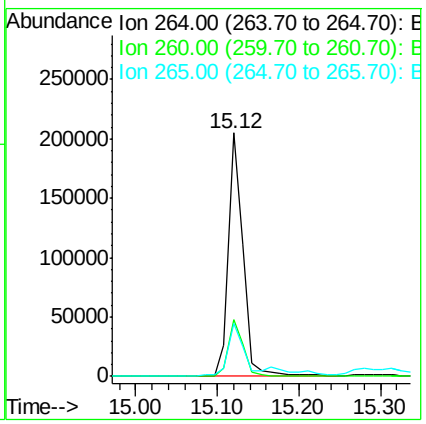


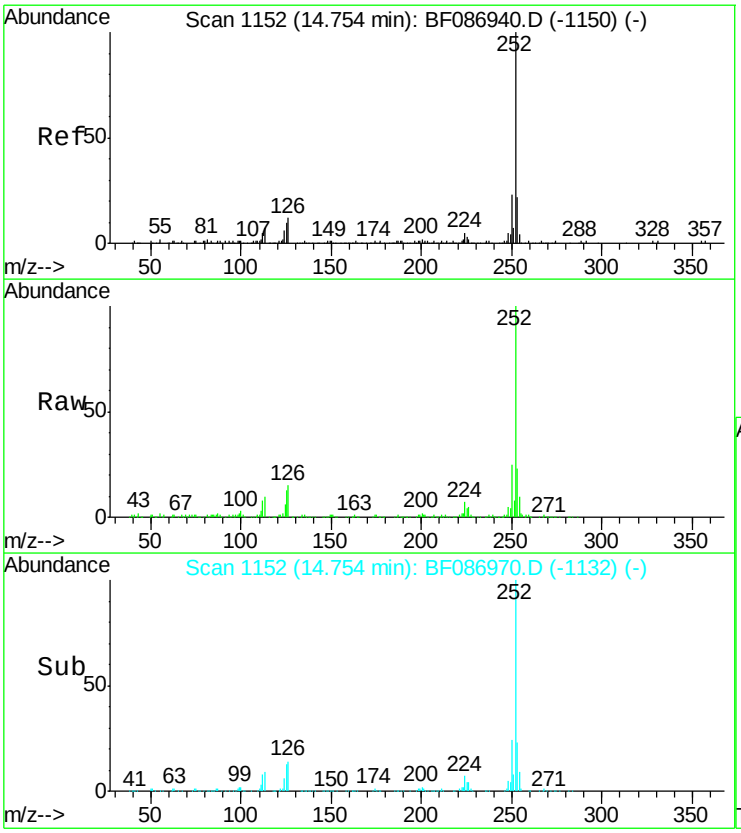

#86
Perylene-d12
Concen: 20.00 ng
RT: 15.12 min Scan# 1184
Delta R.T. -0.09 min
Lab File: BF086970.D
Acq: 13 May 2016 12:28

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

Tgt Ion:264 Resp: 255420

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 23.5 | 19.5 | 29.3 |
| 265 | 21.8 | 17.3 | 25.9 |

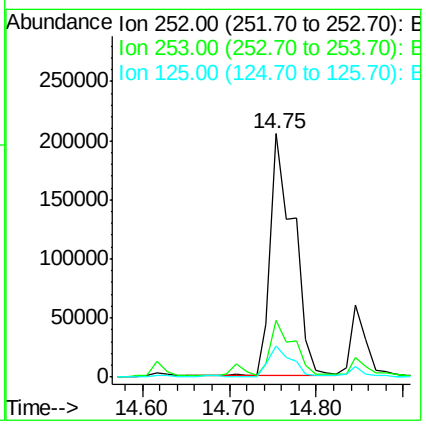


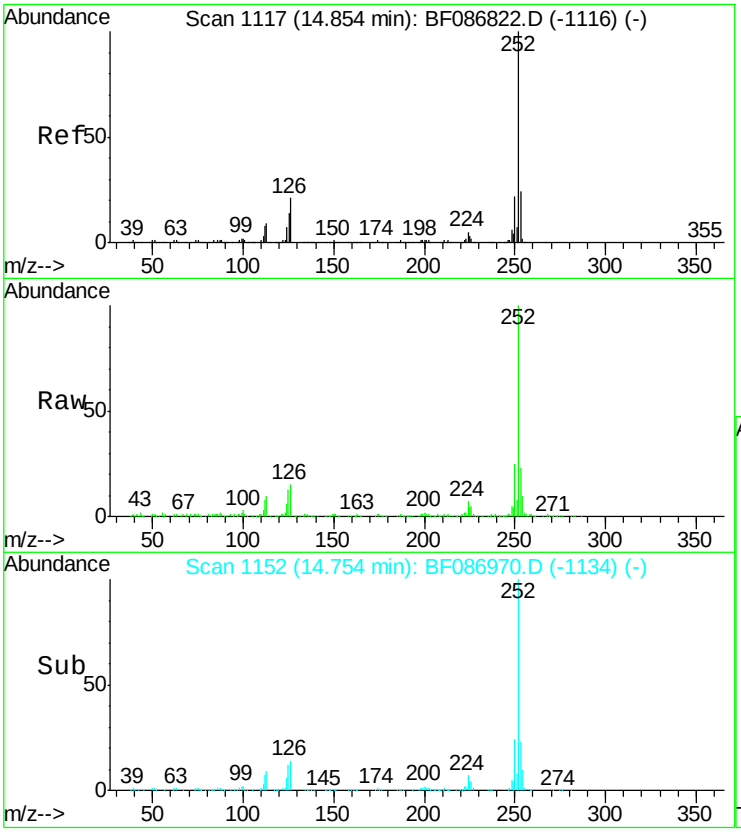




#87
Benzo(b)fluoranthene
Concen: 23.06 ng
RT: 14.75 min Scan# 1152
Delta R.T. -0.08 min
Lab File: BF086970.D
Acq: 13 May 2016 12:28

Tgt Ion:252 Resp: 382854

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 23.1 | 17.8 | 26.6 |
| 125 | 12.8 | 11.4 | 17.0 |



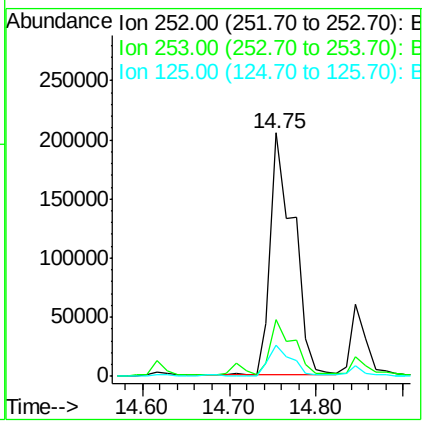


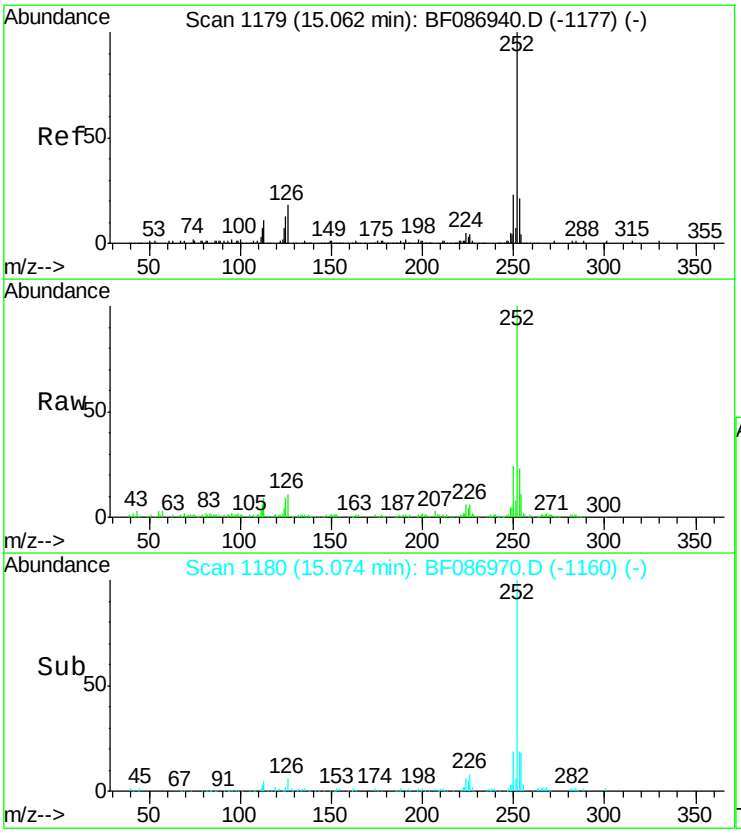

#88
Benzo(k)fluoranthene
Concen: 28.17 ng
RT: 14.75 min Scan# 1152
Delta R.T. -0.10 min
Lab File: BF086970.D
Acq: 13 May 2016 12:28

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

Tgt Ion:252 Resp: 382854

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 23.1 | 17.8 | 26.6 |
| 125 | 12.8 | 9.1 | 13.7 |

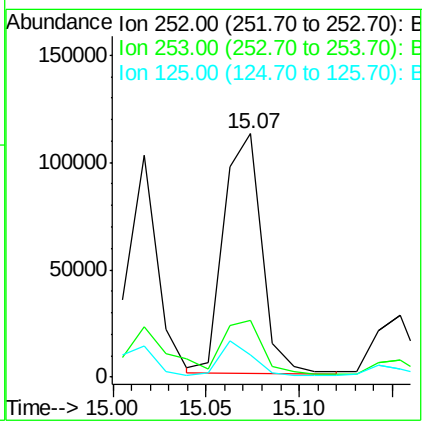


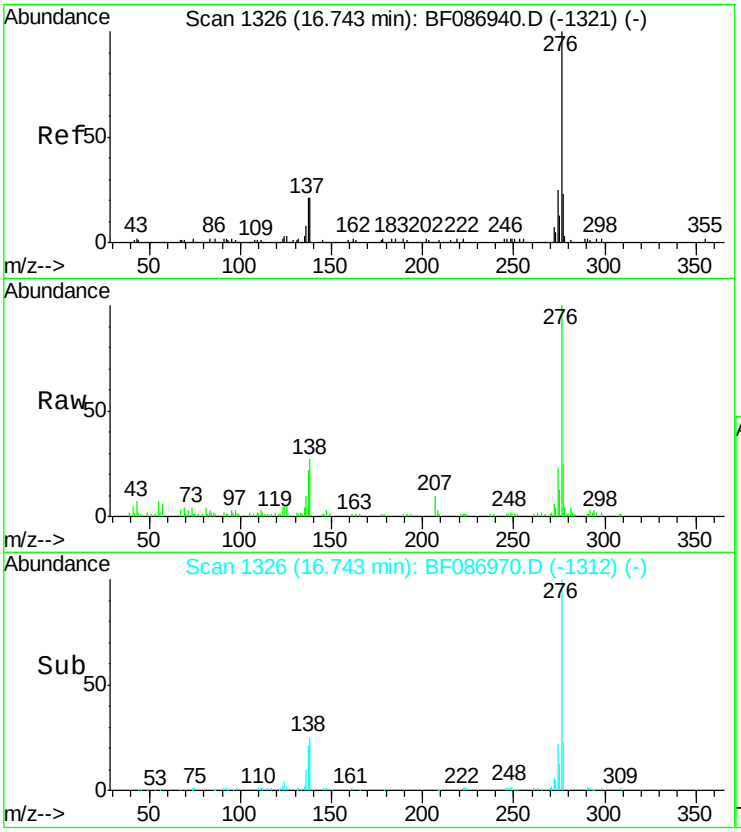




#89
Benzo(a)pyrene
Concen: 11.13 ng
RT: 15.07 min Scan# 1180
Delta R.T. -0.08 min
Lab File: BF086970.D
Acq: 13 May 2016 12:28

Tgt Ion:252 Resp: 159406

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 23.2 | 17.2 | 25.8 |
| 125 | 9.3 | 9.0 | 13.6 |






#91
Benzo(g,h,i)perylene
Concen: 5.36 ng
RT: 16.74 min Scan# 1326
Delta R.T. -0.15 min
Lab File: BF086970.D
Acq: 13 May 2016 12:28

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

Tgt Ion:276 Resp: 65739

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 24.8 | 19.6 | 29.4 |
| 138 | 27.1 | 23.6 | 35.4 |