Quantitation Report (Not Reviewed)

Data Path : Z:\HPCHEM1\BNA E\DATA\BE040216\
Data File : BE091596.D
Acq On : 1 Apr 2016 18:43
Operator : UM/SJ
Sample : PB89421BL
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_E
**ClientSampleId :** PB89421BL

Quant Time: Apr 01 23:43:23 2016
Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE033016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 30 18:45:59 2016
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 7.82 | 152 | 35946 | 5.00 | ng | 0.00 |
| 6) Naphthalene-d8 | 10.59 | 136 | 169364 | 5.00 | ng | 0.00 |
| 10) Acenaphthene-d10 | 14.42 | 164 | 105234 | 5.00 | ng | -0.03 |
| 16) Phenanthrene-d10 | 17.16 | 188 | 274444 | 5.00 | ng | -0.01 |
| 22) Chrysene-d12 | 21.31 | 240 | 337801 | 5.00 | ng | -0.02 |
| 28) Perylene-d12 | 23.77 | 264 | 288664 | 5.00 | ng | -0.02 |
| **System Monitoring Compounds** | | | | | | |
| 4) 2-Fluorophenol | 5.41 | 112 | 62864 | 6.68 | ng | -0.02 |
| 5) Phenol-d6 | 6.97 | 99 | 89827 | 7.06 | ng | -0.02 |
| 7) Nitrobenzene-d5 | 8.96 | 82 | 37035 | 3.26 | ng | -0.02 |
| 11) 2,4,6-Tribromophenol | 15.91 | 330 | 24946 | 5.35 | ng | -0.01 |
| 12) 2-Fluorobiphenyl | 13.05 | 172 | 109998 | 3.68 | ng | -0.02 |
| 24) Terphenyl-d14 | 19.78 | 244 | 173025 | 4.04 | ng | 0.00 |
| **Target Compounds** | | | | | | Qvalue |
| 3) n-Nitrosodimethylamine | 3.75 | 42 | 49 | 0.01 | ng | # 4 |
| 8) Naphthalene | 10.63 | 128 | 65 | 0.00 | ng | # 1 |
| 9) 2-Methylnaphthalene | 12.25 | 142 | 46 | 0.00 | ng | # 48 |
| 13) Acenaphthylene | 14.14 | 152 | 984 | 0.02 | ng | # 60 |
| 14) Acenaphthene | 14.42 | 154 | 471 | 0.02 | ng | # 12 |
| 15) Fluorene | 15.47 | 166 | 33 | 0.00 | ng | # 58 |
| 17) Hexachlorobenzene | 16.43 | 284 | 18 | 0.00 | ng | # 1 |
| 18) Pentachlorophenol | 16.81 | 266 | 51 | 0.01 | ng | # 65 |
| 19) Phenanthrene | 17.19 | 178 | 122 | 0.00 | ng | # 59 |
| 20) Anthracene | 17.29 | 178 | 44 | 0.00 | ng | # 53 |
| 21) Fluoranthene | 19.20 | 202 | 108 | 0.00 | ng | # 84 |
| 23) Pyrene | 19.57 | 202 | 93 | 0.00 | ng | # 35 |
| 25) Benzo(a)anthracene | 21.31 | 228 | 1301 | 0.02 | ng | # 69 |
| 26) Chrysene | 21.31 | 228 | 1308 | 0.02 | ng | # 82 |
| 27) Indeno(1,2,3-cd)pyrene | 26.34 | 276 | 437 | 0.01 | ng | # 85 |
| 29) Benzo(b)fluoranthene | 23.01 | 252 | 334 | 0.00 | ng | # 1 |
| 30) Benzo(k)fluoranthene | 23.07 | 252 | 221 | 0.00 | ng | # 1 |
| 31) Benzo(a)pyrene | 23.65 | 252 | 221 | 0.00 | ng | # 1 |
| 32) Dibenzo(a,h)anthracene | 26.36 | 278 | 447 | 0.01 | ng | # 12 |
| 33) Benzo(g,h,i)perylene | 27.13 | 276 | 228 | 0.00 | ng | # 4 |

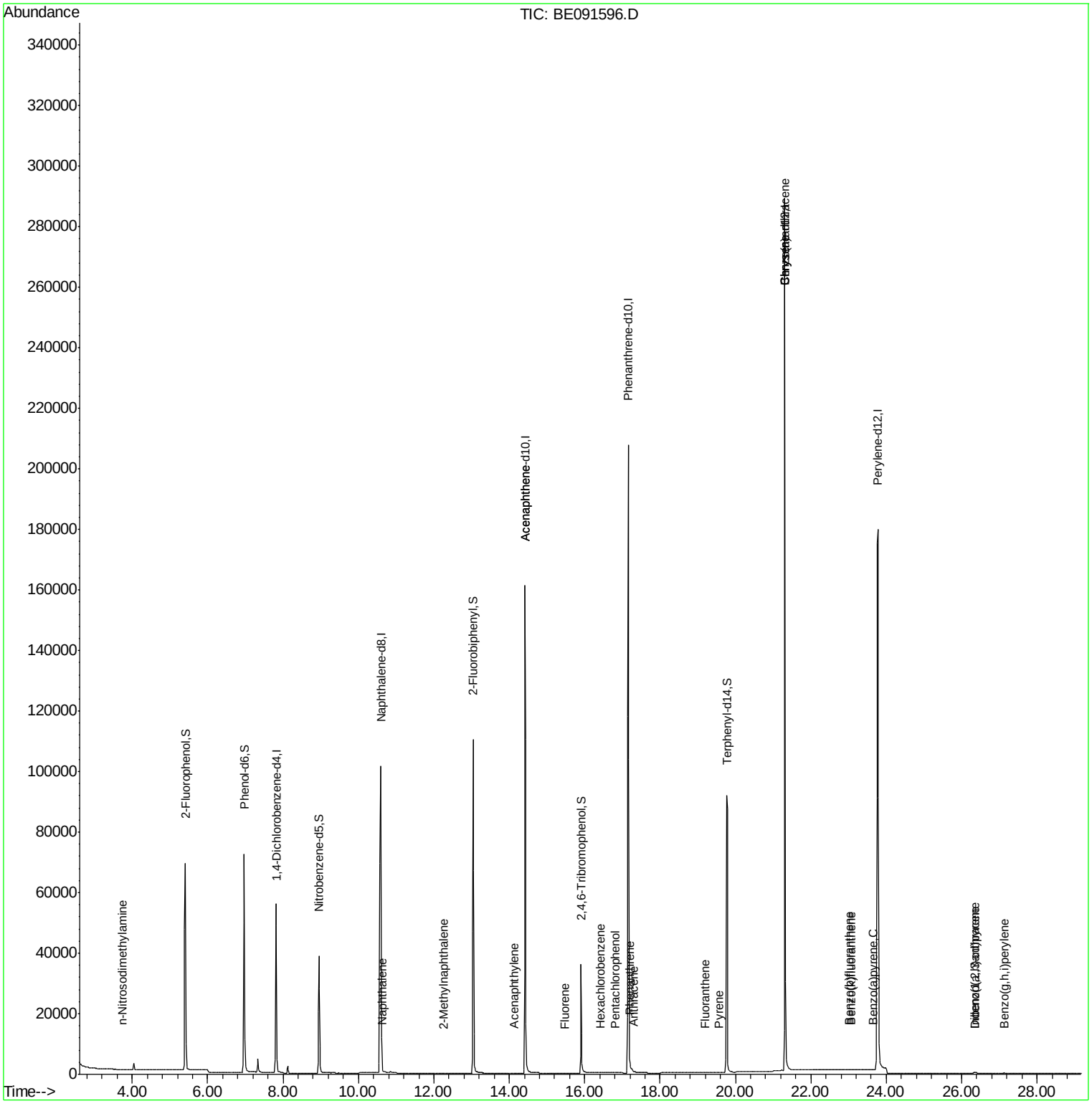
(#) = qualifier out of range (m) = manual integration (+) = signals summed

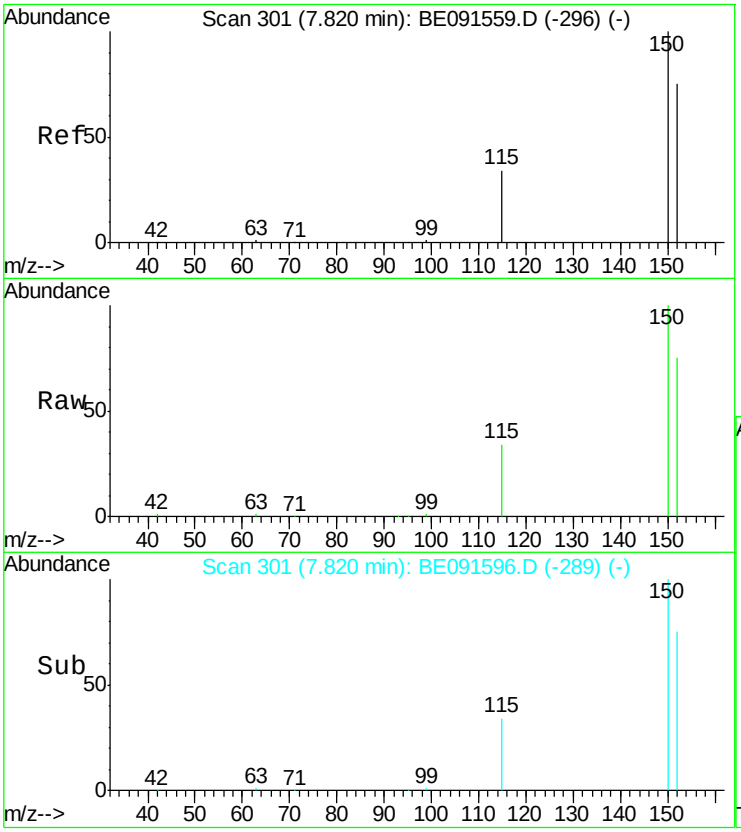
Quantitation Report (Not Reviewed)

Data Path : Z:\HPCHEM1\BNA E\DATA\BE040216\
Data File : BE091596.D
Acq On : 1 Apr 2016 18:43
Operator : UM/SJ
Sample : PB89421BL
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
BNA_E
**ClientSampleId :**
PB89421BL

Quant Time: Apr 01 23:43:23 2016
Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE033016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 30 18:45:59 2016
Response via : Initial Calibration



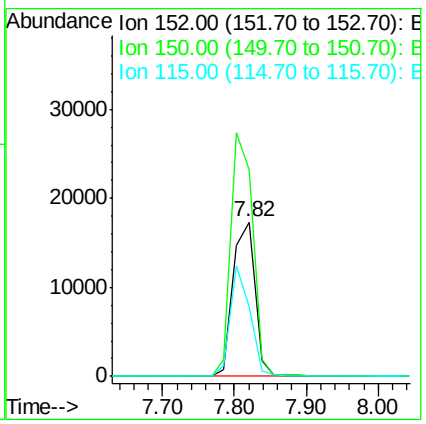


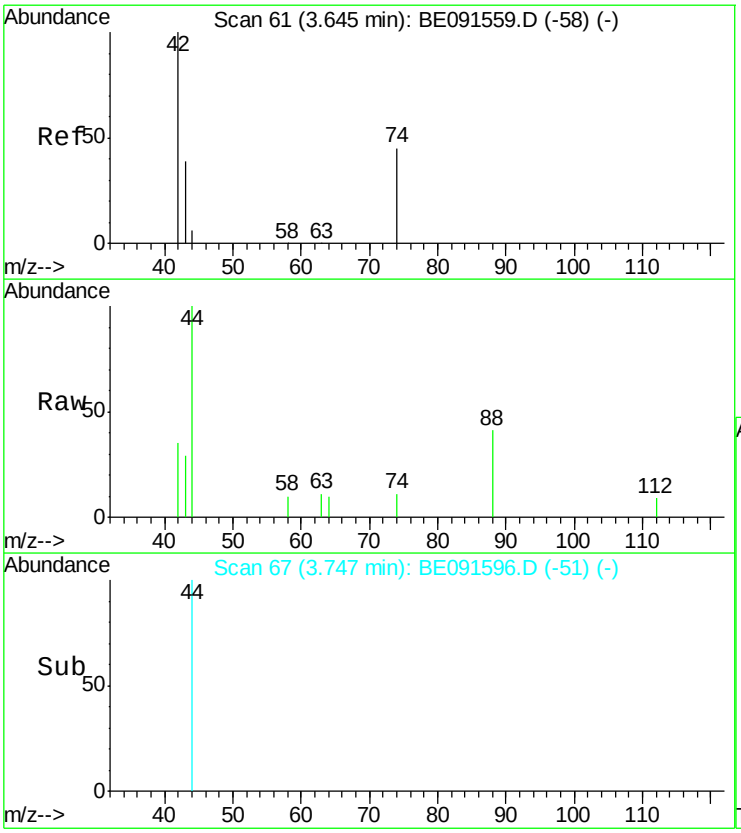

#1
1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 7.82 min Scan# 301
Delta R.T. 0.00 min
Lab File: BE091596.D
Acq: 1 Apr 2016 18:43

**Instrument :**
BNA_E
**ClientSampleId :**
PB89421BL

Tgt Ion:152 Resp: 35946

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 133.5 | 122.2 | 183.2 |
| 115 | 45.2 | 45.9 | 68.9# |

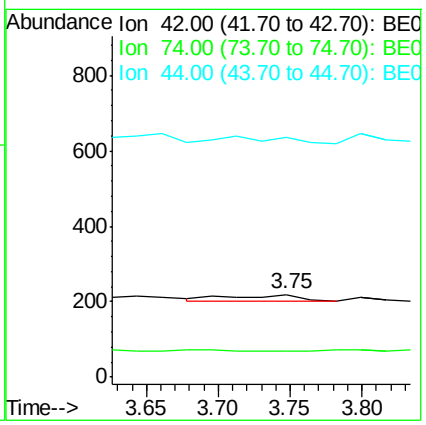


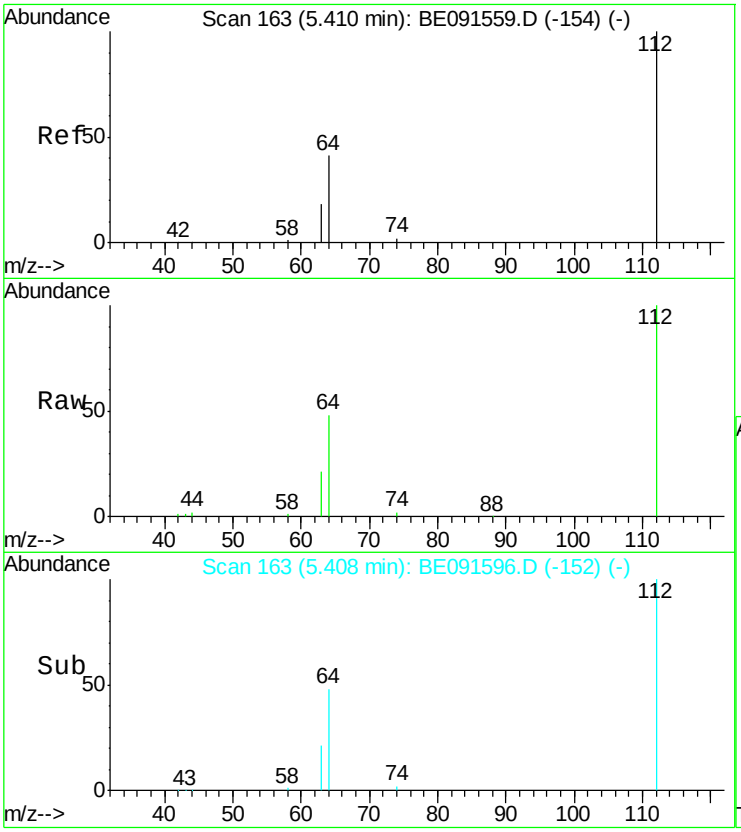




#3
n-Nitrosodimethylamine
Concen: 0.01 ng
RT: 3.75 min Scan# 67
Delta R.T. 0.07 min
Lab File: BE091596.D
Acq: 1 Apr 2016 18:43

Tgt Ion: 42 Resp: 49

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 0.0 | 84.3 | 126.5# |
| 44 | 0.0 | 6.7 | 10.1# |



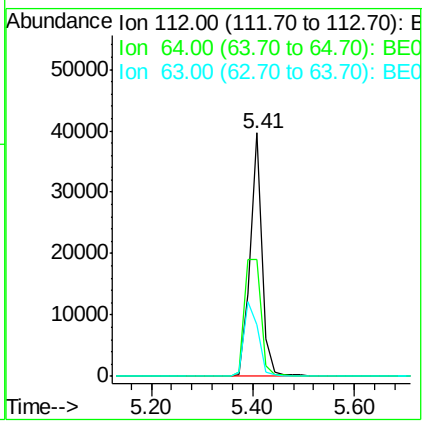


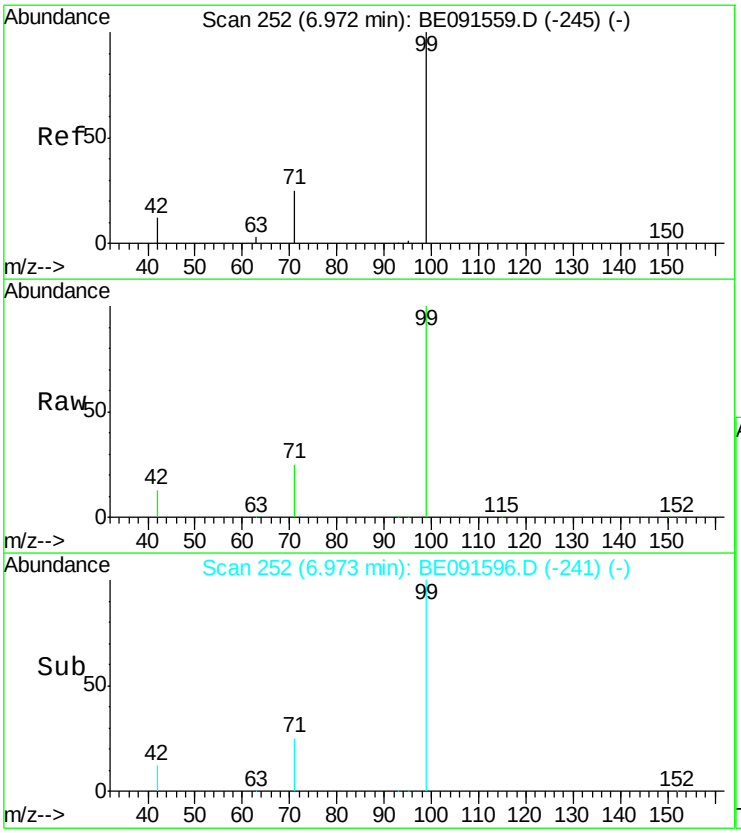

#4
2-Fluorophenol
Concen: 6.68 ng
RT: 5.41 min Scan# 163
Delta R.T. -0.02 min
Lab File: BE091596.D
Acq: 1 Apr 2016 18:43

**Instrument :**
BNA_E
**ClientSampleId :**
PB89421BL

Tgt Ion:112 Resp: 62864

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 67.7 | 53.3 | 79.9 |
| 63 | 36.5 | 29.8 | 44.8 |

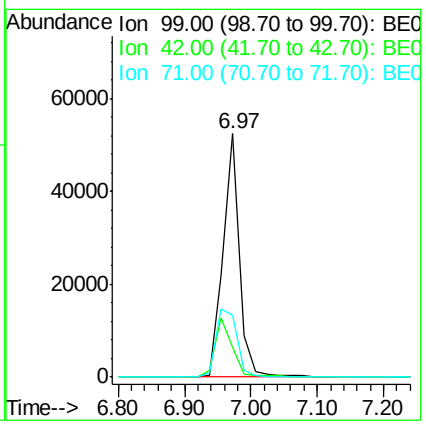


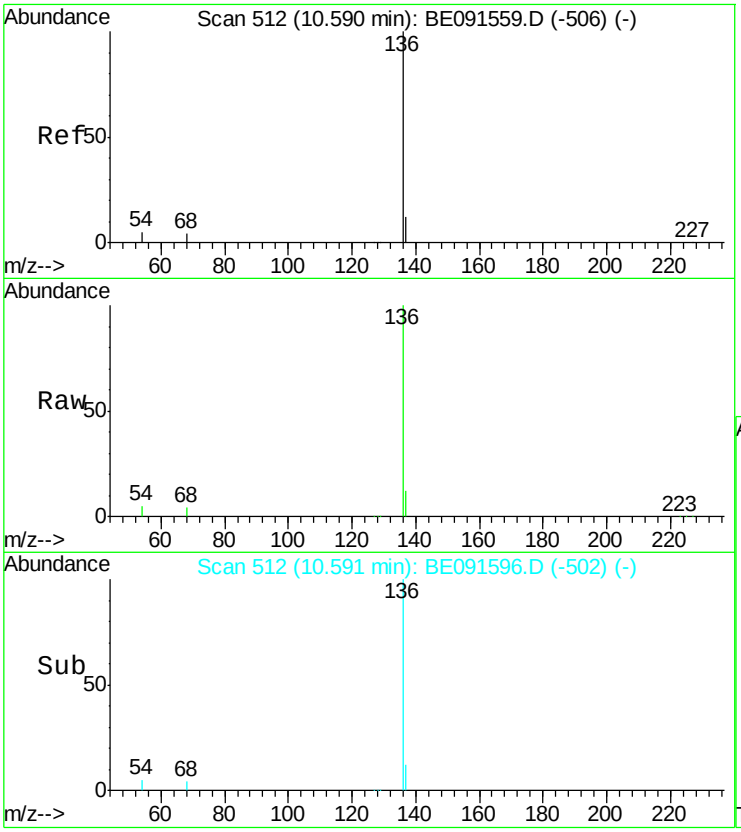




#5
Phenol-d6
Concen: 7.06 ng
RT: 6.97 min Scan# 252
Delta R.T. -0.02 min
Lab File: BE091596.D
Acq: 1 Apr 2016 18:43

Tgt Ion: 99 Resp: 89827

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 25.1 | 20.6 | 30.8 |
| 71 | 35.8 | 29.0 | 43.4 |



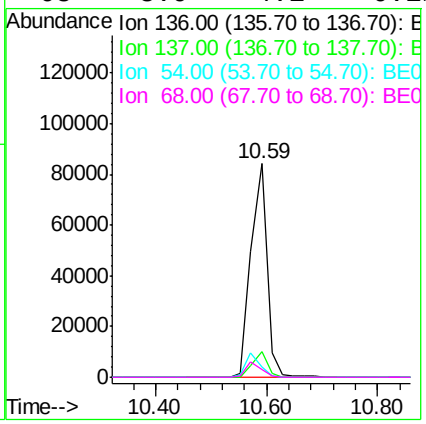


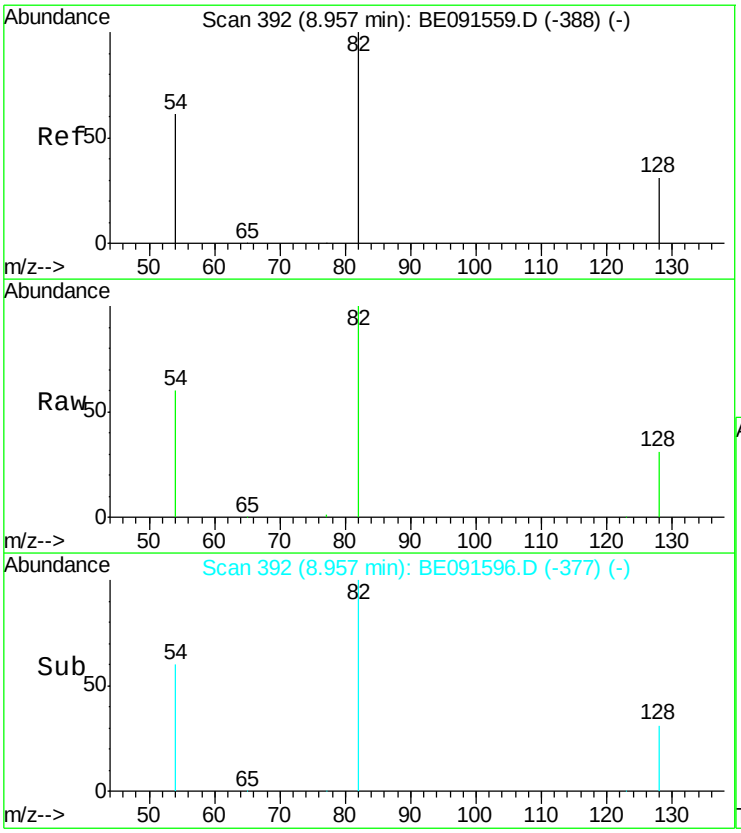

#6
Naphthalene-d8
Concen: 5.00 ng
RT: 10.59 min Scan# 512
Delta R.T. -0.00 min
Lab File: BE091596.D
Acq: 1 Apr 2016 18:43

**Instrument :**
BNA_E
**ClientSampleId :**
PB89421BL

Tgt Ion:136 Resp: 169364

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.8 | 8.8 | 13.2 |
| 54 | 4.8 | 5.2 | 7.8# |
| 68 | 3.9 | 4.1 | 6.1# |

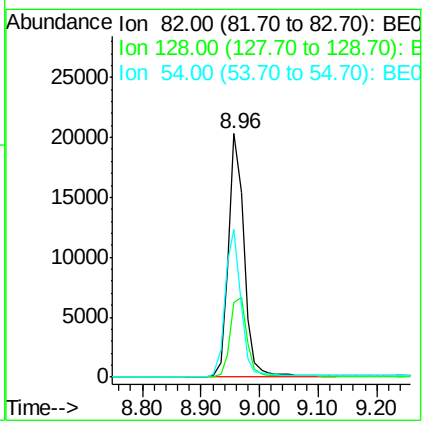


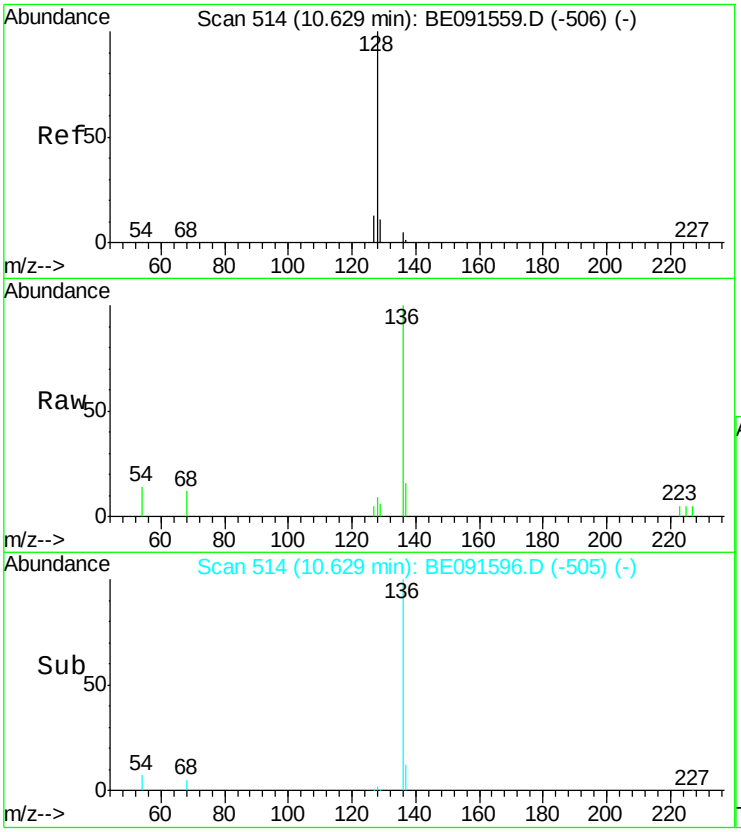




#7
Nitrobenzene-d5
Concen: 3.26 ng
RT: 8.96 min Scan# 392
Delta R.T. -0.02 min
Lab File: BE091596.D
Acq: 1 Apr 2016 18:43

Tgt Ion: 82 Resp: 37035

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 30.7 | 23.5 | 35.3 |
| 54 | 60.5 | 52.4 | 78.6 |



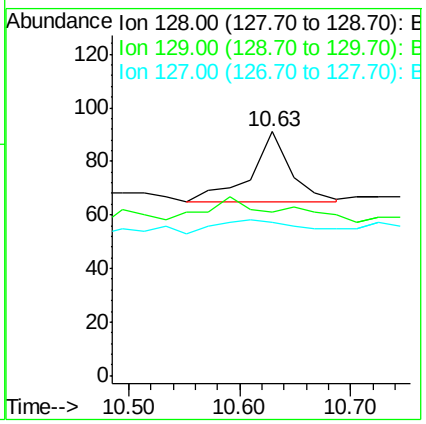


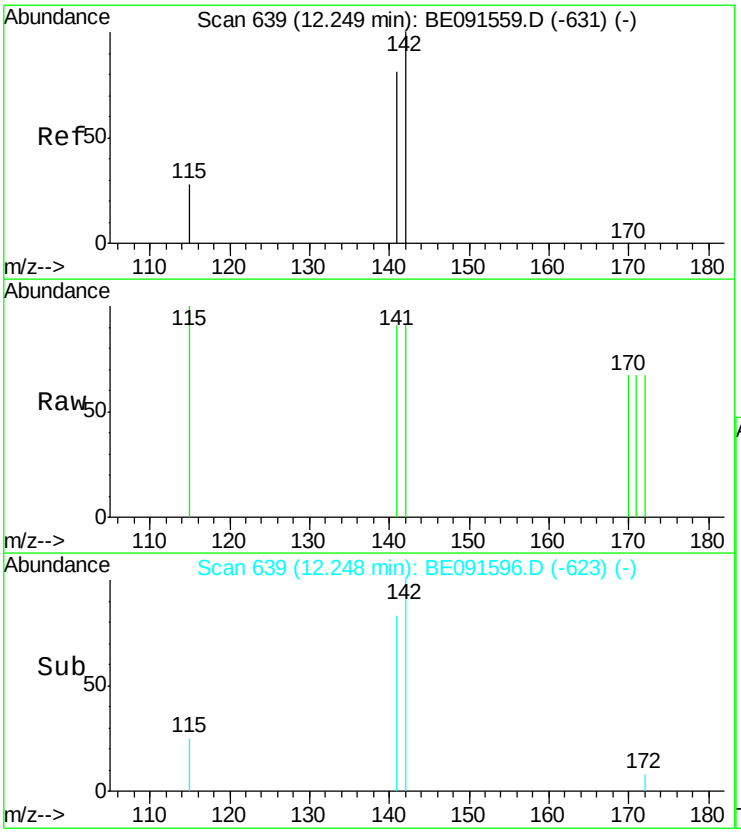

#8
Naphthalene
Concen: 0.00 ng
RT: 10.63 min Scan# 514
Delta R.T. -0.02 min
Lab File: BE091596.D
Acq: 1 Apr 2016 18:43

**Instrument :**
BNA_E
**ClientSampleId :**
PB89421BL

Tgt Ion:128 Resp: 65

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 67.0 | 8.2 | 12.2# |
| 127 | 62.6 | 11.8 | 17.8# |

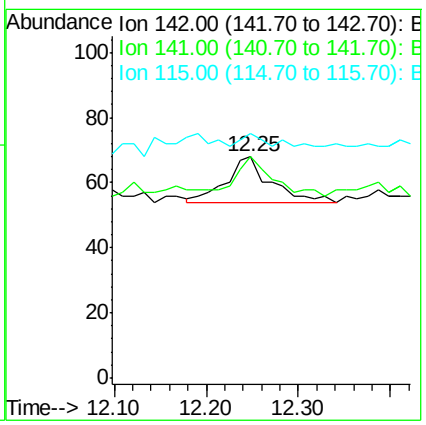


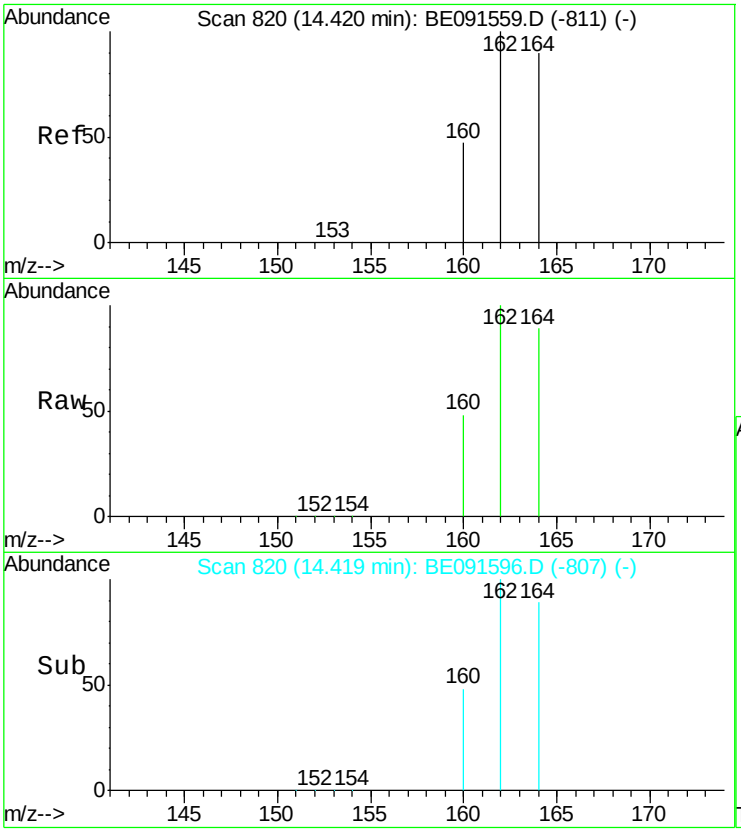




#9
2-Methylnaphthalene
Concen: 0.00 ng
RT: 12.25 min Scan# 639
Delta R.T. -0.01 min
Lab File: BE091596.D
Acq: 1 Apr 2016 18:43

Tgt Ion:142 Resp: 46

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 100.0 | 66.9 | 100.3 |
| 115 | 110.3 | 25.1 | 37.7# |



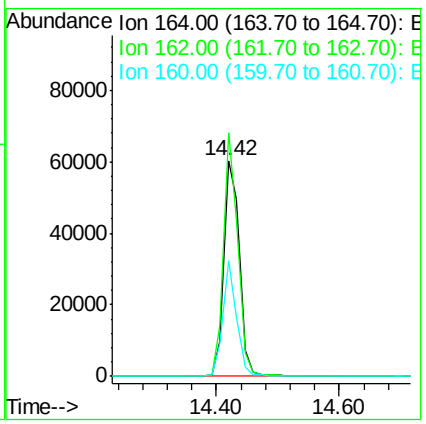


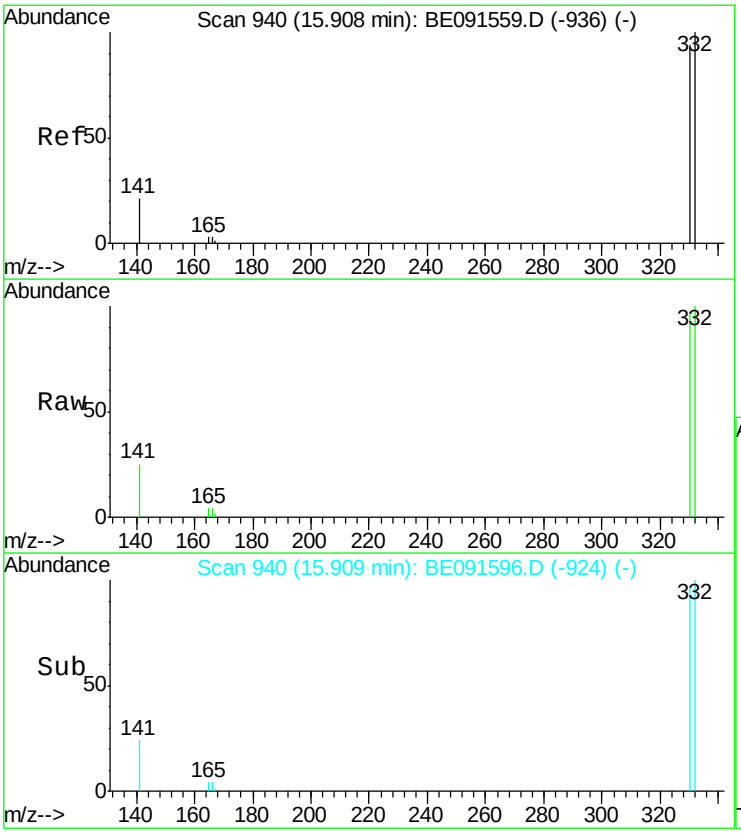

#10
Acenaphthene-d10
Concen: 5.00 ng
RT: 14.42 min Scan# 820
Delta R.T. -0.03 min
Lab File: BE091596.D
Acq: 1 Apr 2016 18:43

**Instrument :**
BNA_E
**ClientSampleId :**
PB89421BL

Tgt Ion:164 Resp: 105234

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 112.9 | 84.4 | 126.6 |
| 160 | 53.9 | 37.7 | 56.5 |

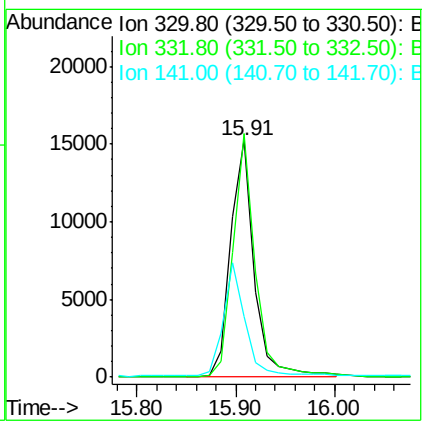


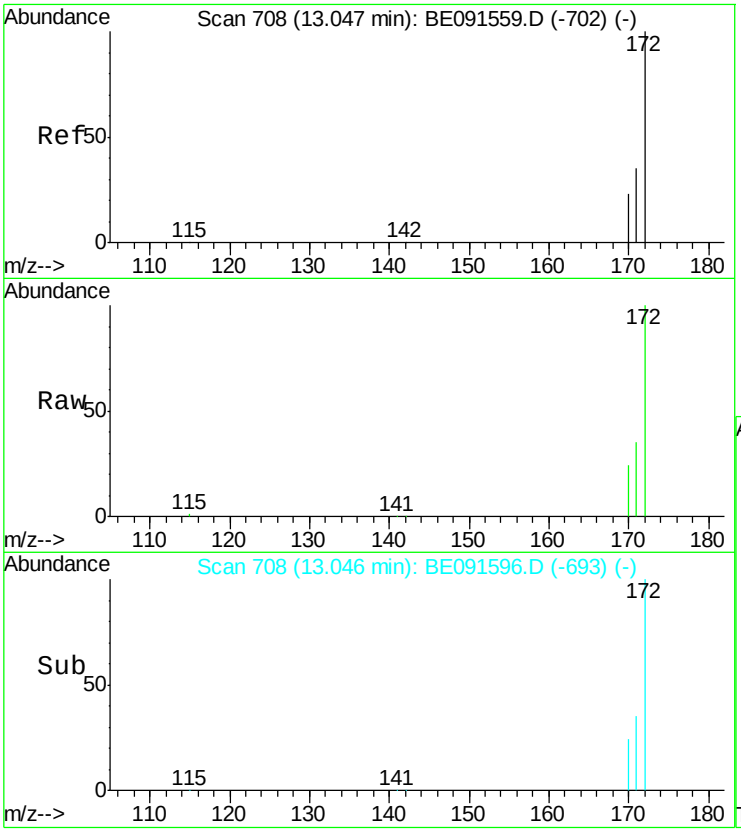




#11
2,4,6-Tribromophenol
Concen: 5.35 ng
RT: 15.91 min Scan# 940
Delta R.T. -0.01 min
Lab File: BE091596.D
Acq: 1 Apr 2016 18:43

Tgt Ion:330 Resp: 24946

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 97.0 | 79.2 | 118.8 |
| 141 | 44.7 | 28.1 | 42.1# |



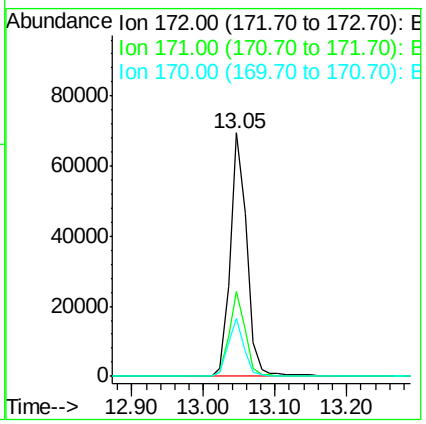


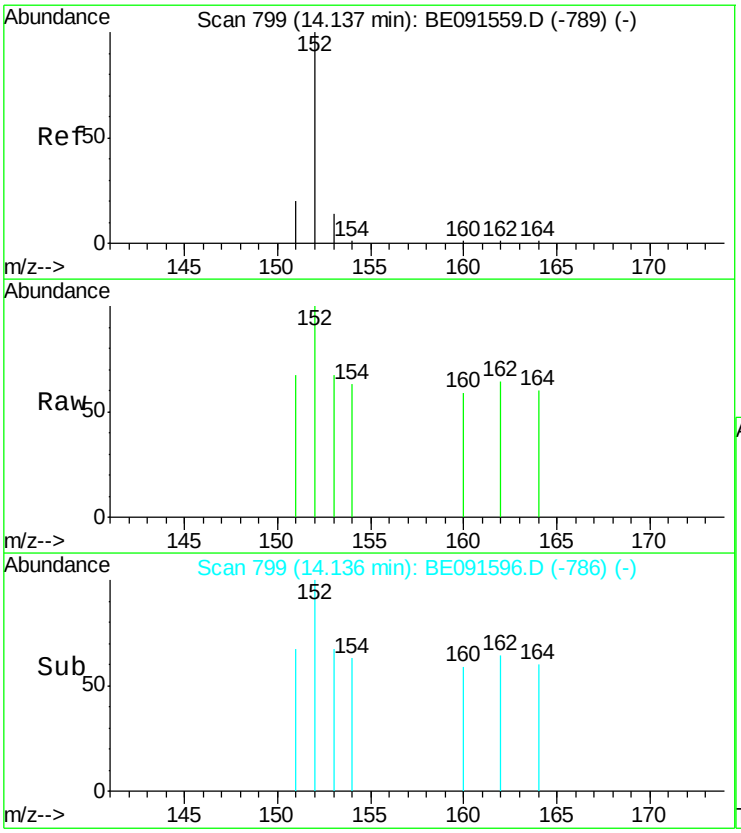

#12
2-Fluorobiphenyl
Concen: 3.68 ng
RT: 13.05 min Scan# 708
Delta R.T. -0.02 min
Lab File: BE091596.D
Acq: 1 Apr 2016 18:43

**Instrument :**
BNA_E
**ClientSampleId :**
PB89421BL

Tgt Ion:172 Resp: 109998

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 34.9 | 29.8 | 44.8 |
| 170 | 23.7 | 21.4 | 32.2 |

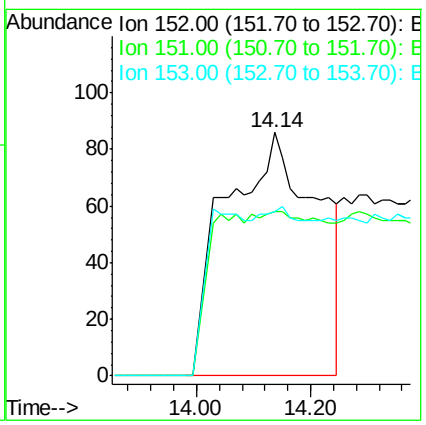


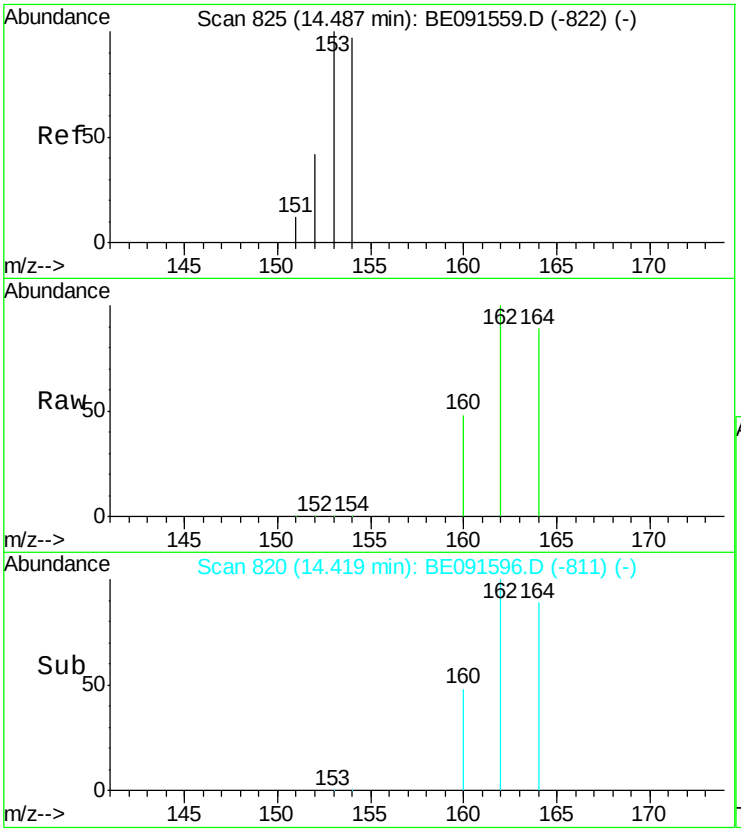




#13
Acenaphthylene
Concen: 0.02 ng
RT: 14.14 min Scan# 799
Delta R.T. -0.01 min
Lab File: BE091596.D
Acq: 1 Apr 2016 18:43

Tgt Ion:152 Resp: 984

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 0.0 | 16.3 | 24.5# |
| 153 | 0.0 | 11.1 | 16.7# |



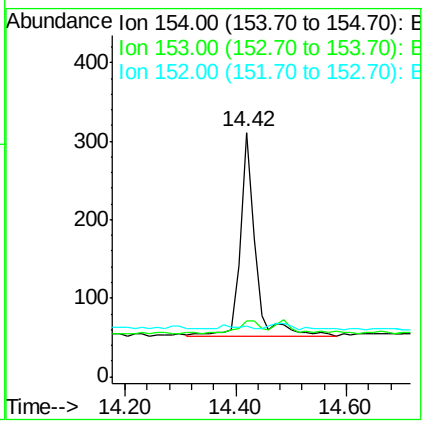


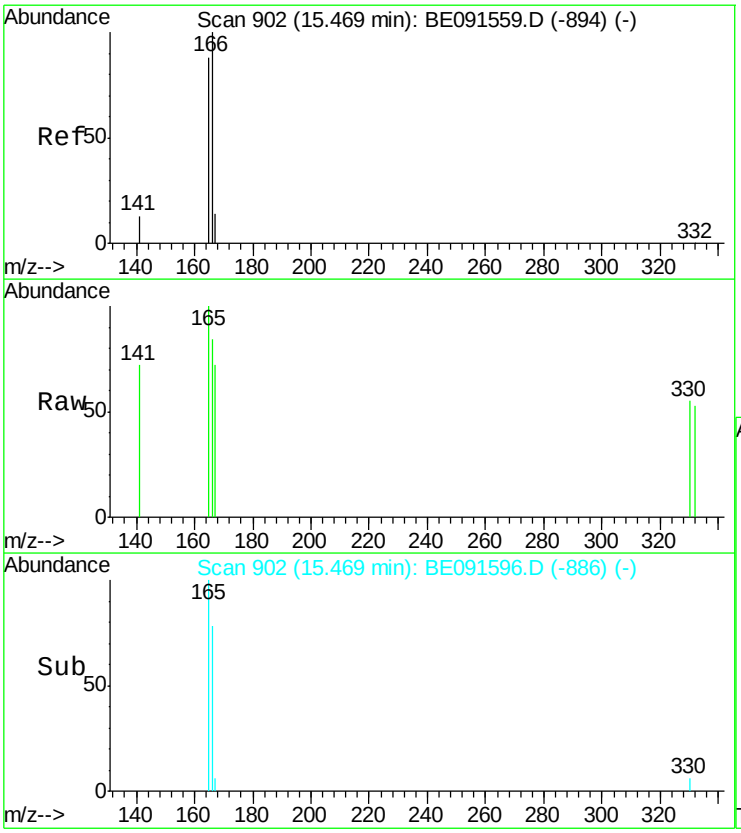

#14
Acenaphthene
Concen: 0.02 ng
RT: 14.42 min Scan# 820
Delta R.T. -0.08 min
Lab File: BE091596.D
Acq: 1 Apr 2016 18:43

**Instrument :**
BNA_E
**ClientSampleId :**
PB89421BL

Tgt Ion:154 Resp: 471

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 9.8 | 87.3 | 130.9# |
| 152 | 0.0 | 42.9 | 64.3# |

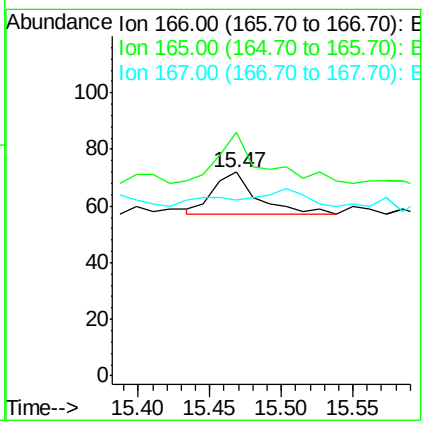


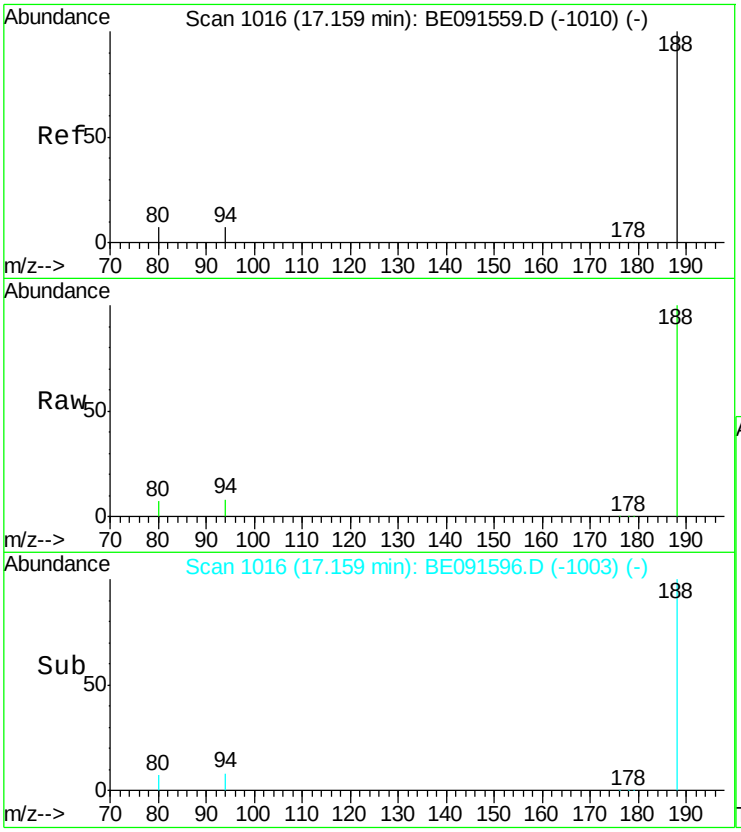




#15
Fluorene
Concen: 0.00 ng
RT: 15.47 min Scan# 902
Delta R.T. -0.01 min
Lab File: BE091596.D
Acq: 1 Apr 2016 18:43

Tgt Ion:166 Resp: 33

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 142.4 | 79.2 | 118.8# |
| 167 | 0.0 | 10.8 | 16.2# |



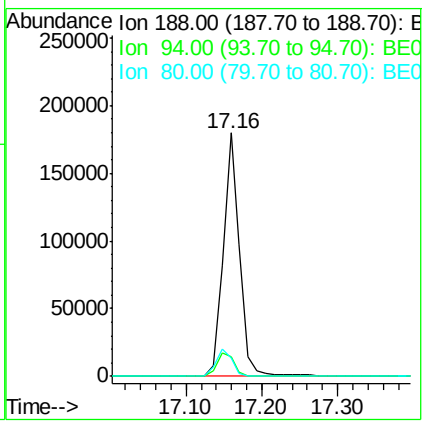


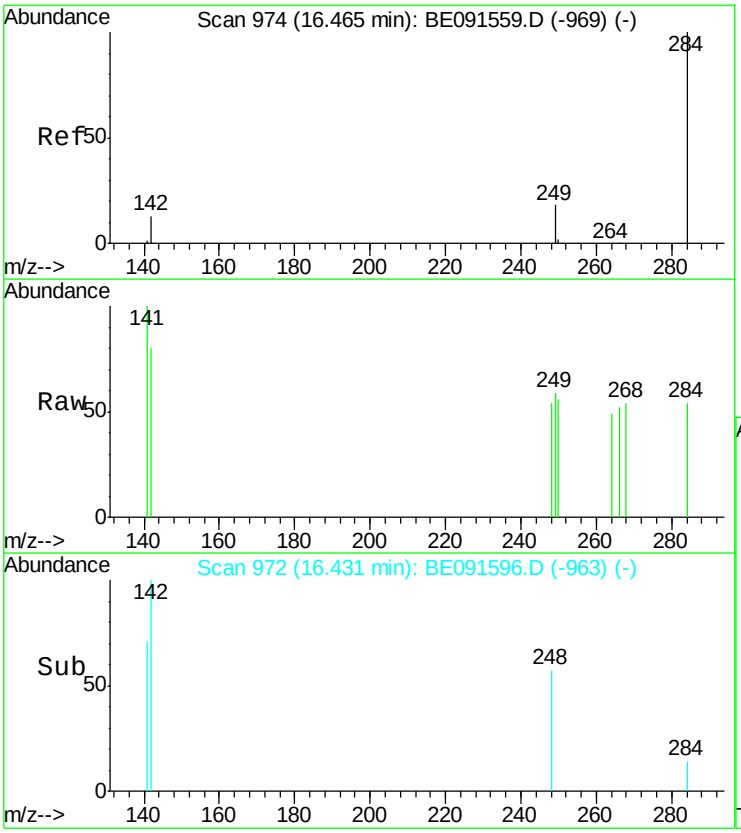

#16
Phenanthrene-d10
Concen: 5.00 ng
RT: 17.16 min Scan# 1016
Delta R.T. -0.01 min
Lab File: BE091596.D
Acq: 1 Apr 2016 18:43

**Instrument :**
BNA_E
**ClientSampleId :**
PB89421BL

Tgt Ion:188 Resp: 274444

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 7.9 | 5.4 | 8.2 |
| 80 | 7.5 | 5.0 | 7.4# |

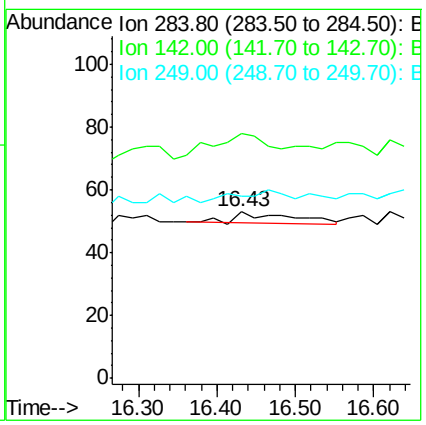


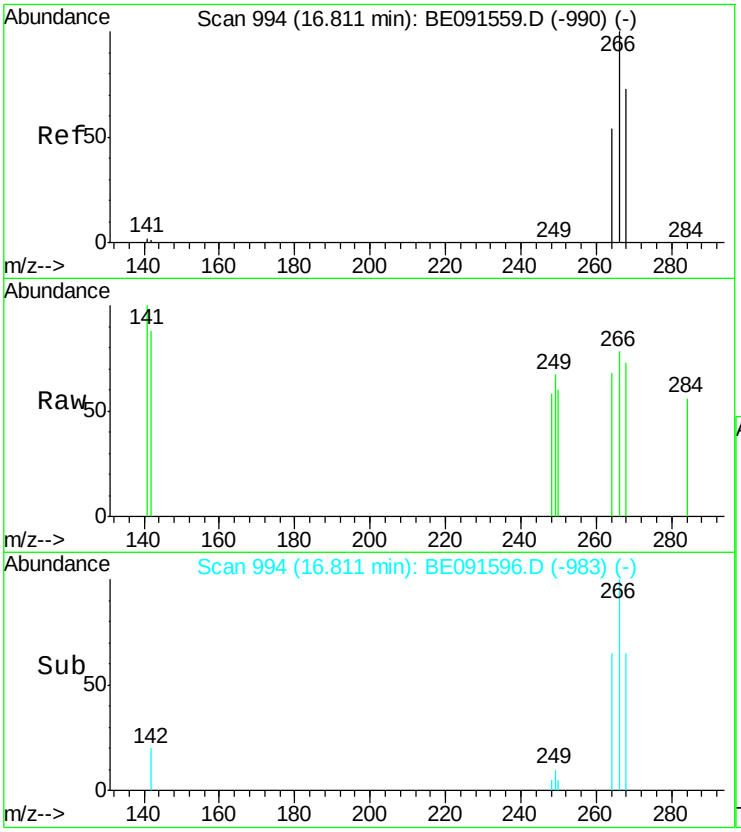




#17
Hexachlorobenzene
Concen: 0.00 ng
RT: 16.43 min Scan# 972
Delta R.T. -0.05 min
Lab File: BE091596.D
Acq: 1 Apr 2016 18:43

Tgt Ion:284 Resp: 18

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 211.1 | 31.0 | 46.4# |
| 249 | 0.0 | 25.8 | 38.8# |



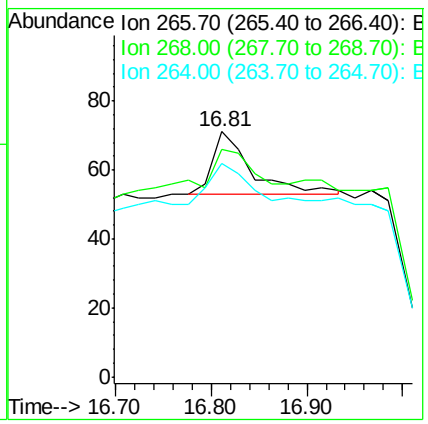


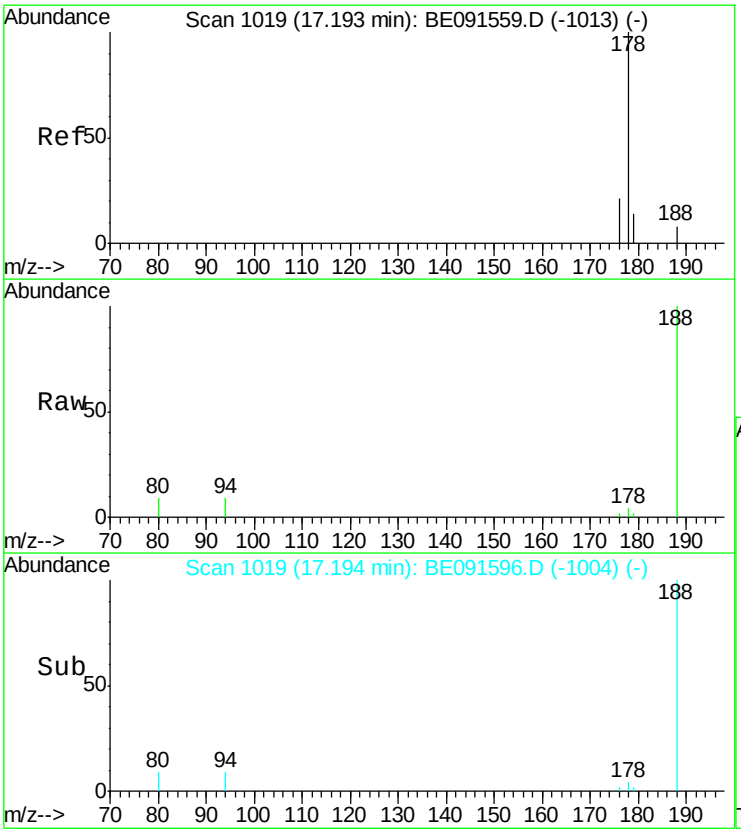

#18
Pentachlorophenol
Concen: 0.01 ng
RT: 16.81 min Scan# 994
Delta R.T. -0.02 min
Lab File: BE091596.D
Acq: 1 Apr 2016 18:43

**Instrument :**
BNA_E
**ClientSampleId :**
PB89421BL

Tgt Ion:266 Resp: 51

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 268 | 93.0 | 48.2 | 72.2# |
| 264 | 87.3 | 52.1 | 78.1# |

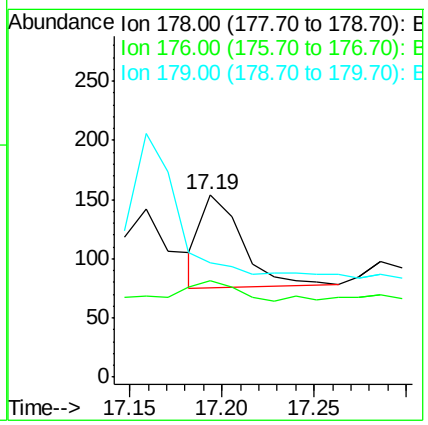


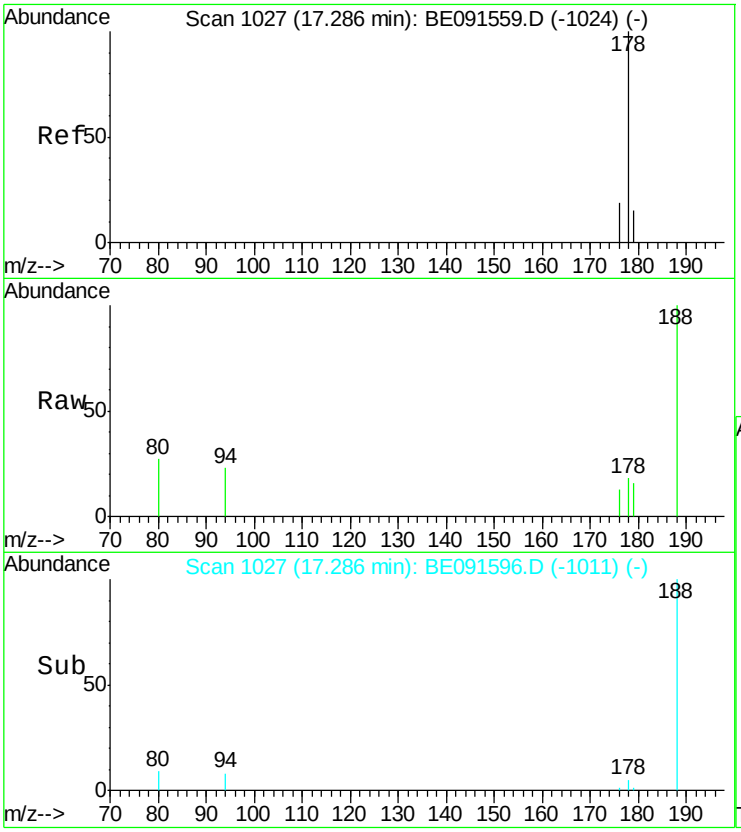




#19
Phenanthrene
Concen: 0.00 ng
RT: 17.19 min Scan# 1019
Delta R.T. -0.01 min
Lab File: BE091596.D
Acq: 1 Apr 2016 18:43

Tgt Ion:178 Resp: 122

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 0.0 | 15.5 | 23.3# |
| 179 | 0.0 | 13.1 | 19.7# |



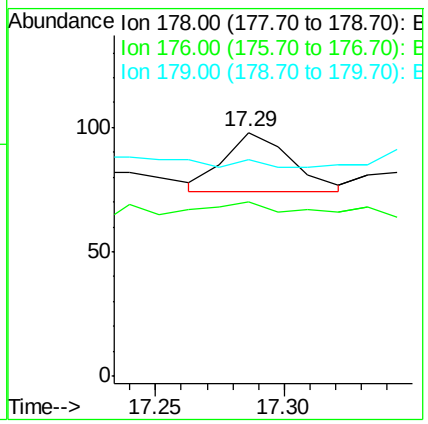


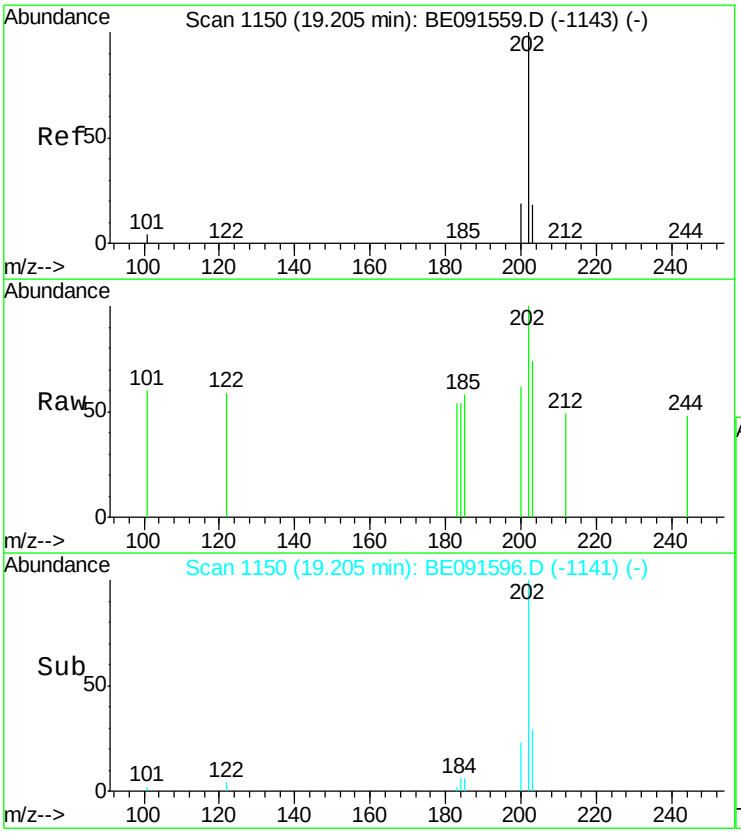

#20
Anthracene
Concen: 0.00 ng
RT: 17.29 min Scan# 1027
Delta R.T. -0.01 min
Lab File: BE091596.D
Acq: 1 Apr 2016 18:43

**Instrument :**
BNA_E
**ClientSampleId :**
PB89421BL

Tgt Ion:178 Resp: 44

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 43.2 | 14.9 | 22.3# |
| 179 | 0.0 | 12.2 | 18.4# |

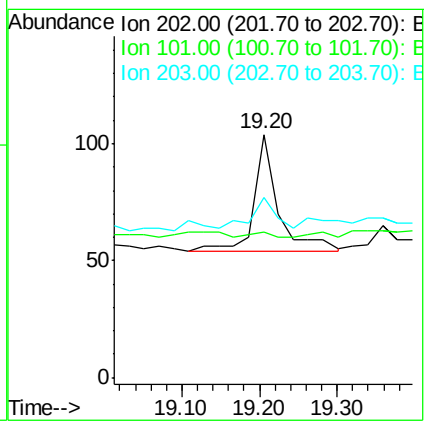


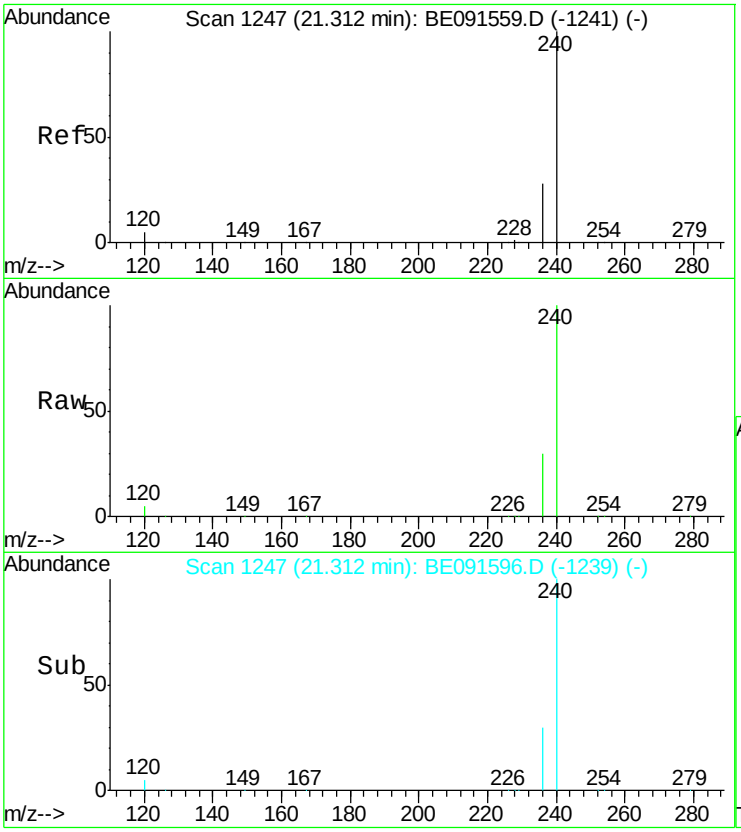




#21
Fluoranthene
Concen: 0.00 ng
RT: 19.20 min Scan# 1150
Delta R.T. -0.02 min
Lab File: BE091596.D
Acq: 1 Apr 2016 18:43

Tgt Ion:202 Resp: 108

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 2.8 | 8.3 | 12.5# |
| 203 | 23.1 | 13.9 | 20.9# |



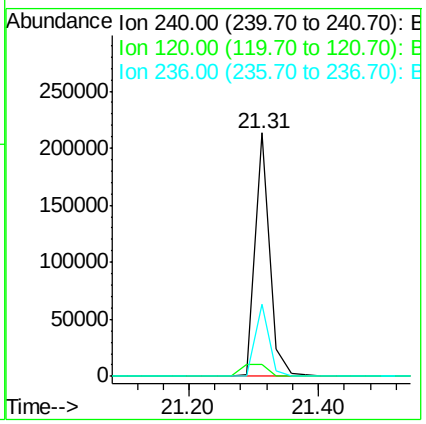


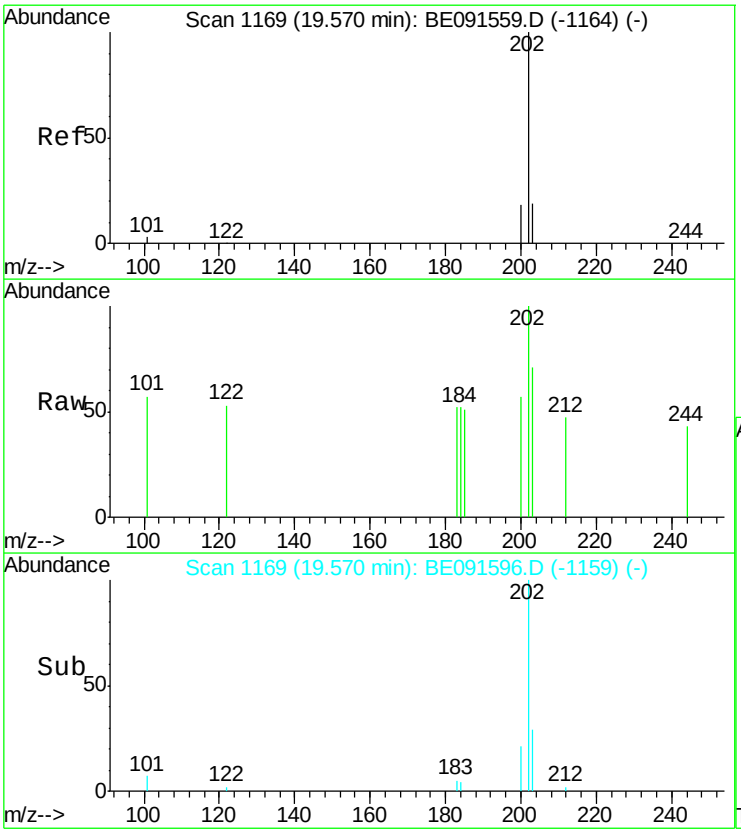

#22
Chrysene-d12
Concen: 5.00 ng
RT: 21.31 min Scan# 1247
Delta R.T. -0.02 min
Lab File: BE091596.D
Acq: 1 Apr 2016 18:43

**Instrument :**
BNA_E
**ClientSampleId :**
PB89421BL

Tgt Ion:240 Resp: 337801

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 5.0 | 4.0 | 6.0 |
| 236 | 29.5 | 23.0 | 34.4 |

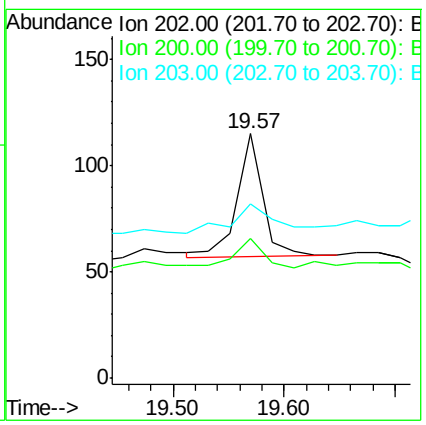


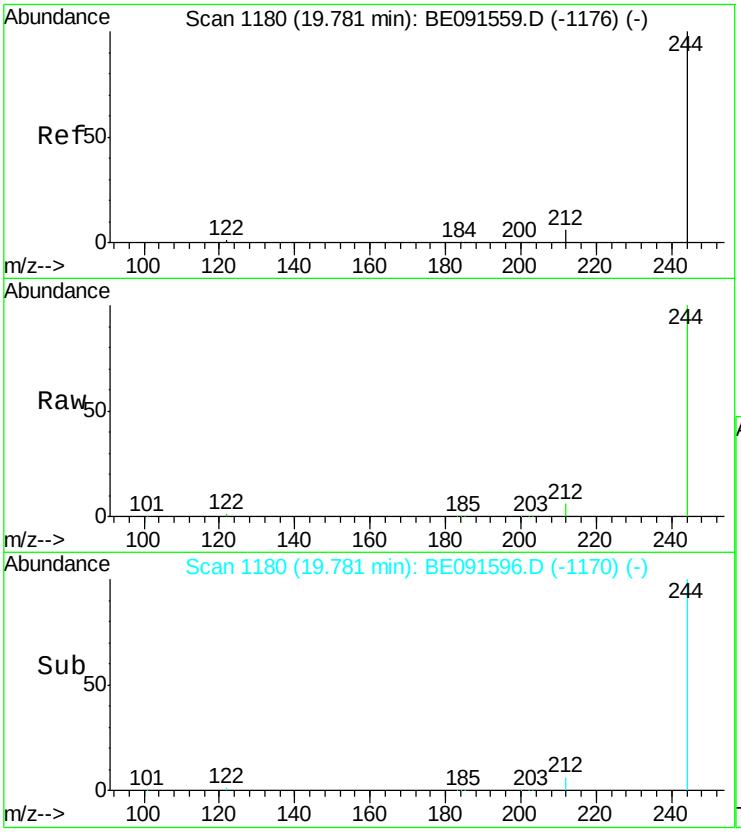




#23
Pyrene
Concen: 0.00 ng
RT: 19.57 min Scan# 1169
Delta R.T. -0.00 min
Lab File: BE091596.D
Acq: 1 Apr 2016 18:43

Tgt Ion:202 Resp: 93

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 24.7 | 16.4 | 24.6# |
| 203 | 75.3 | 14.6 | 21.8# |



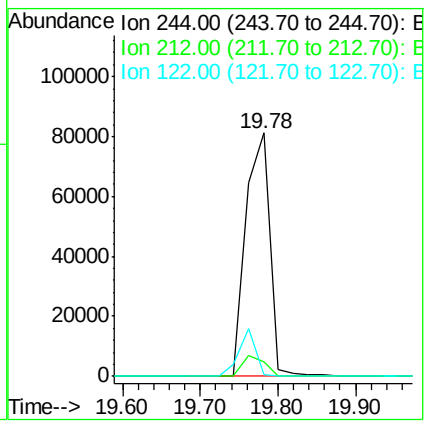


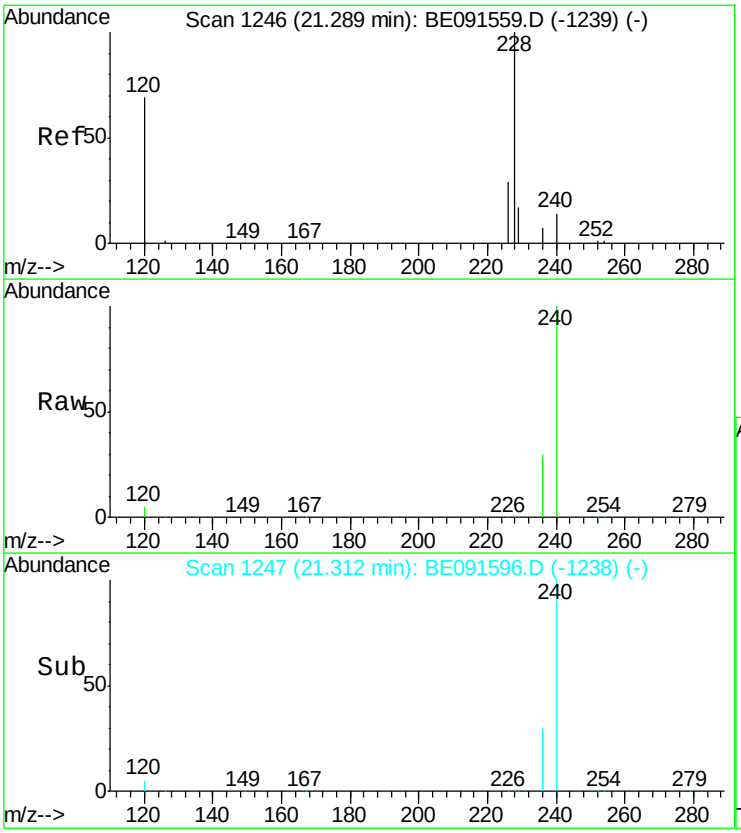

#24
Terphenyl-d14
Concen: 4.04 ng
RT: 19.78 min Scan# 1180
Delta R.T. -0.00 min
Lab File: BE091596.D
Acq: 1 Apr 2016 18:43

**Instrument :**
BNA_E
**ClientSampleId :**
PB89421BL

Tgt Ion:244 Resp: 173025

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 6.2 | 5.8 | 8.8 |
| 122 | 0.7 | 1.8 | 2.8# |

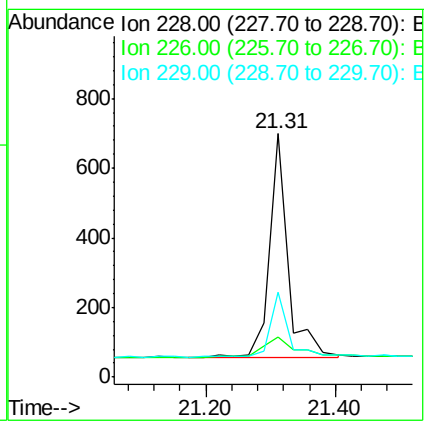


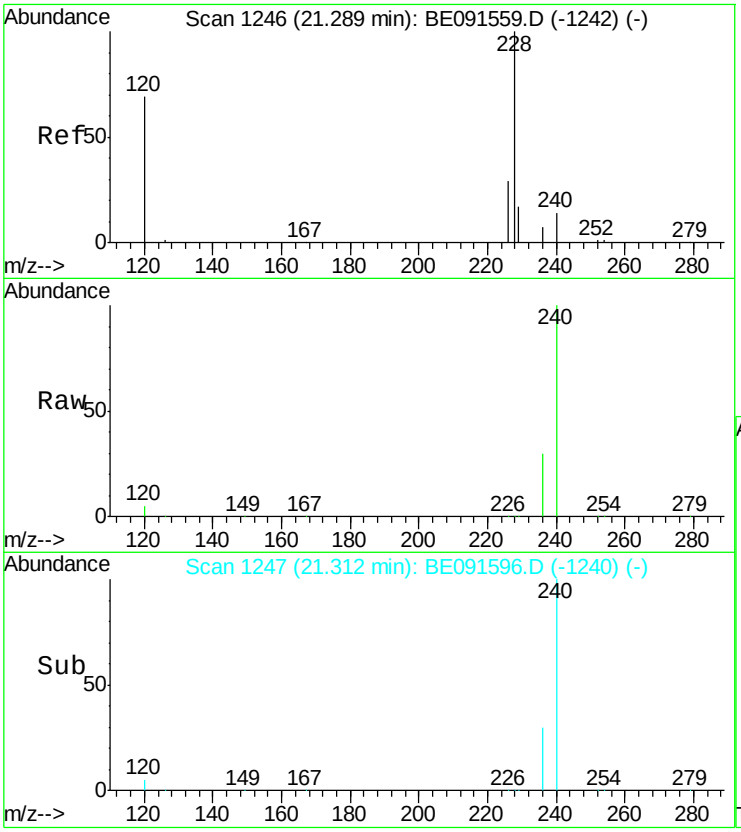




#25
Benzo(a)anthracene
Concen: 0.02 ng
RT: 21.31 min Scan# 1247
Delta R.T. -0.00 min
Lab File: BE091596.D
Acq: 1 Apr 2016 18:43

Tgt Ion:228 Resp: 1301

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 16.6 | 24.0 | 36.0# |
| 229 | 34.9 | 13.8 | 20.6# |



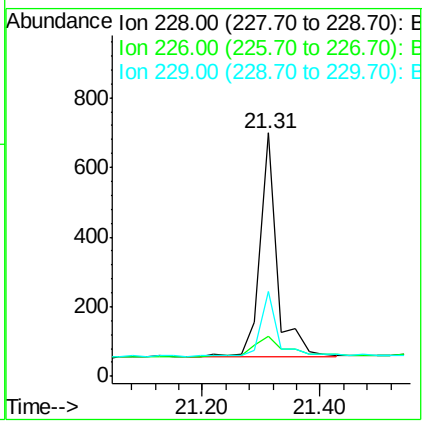


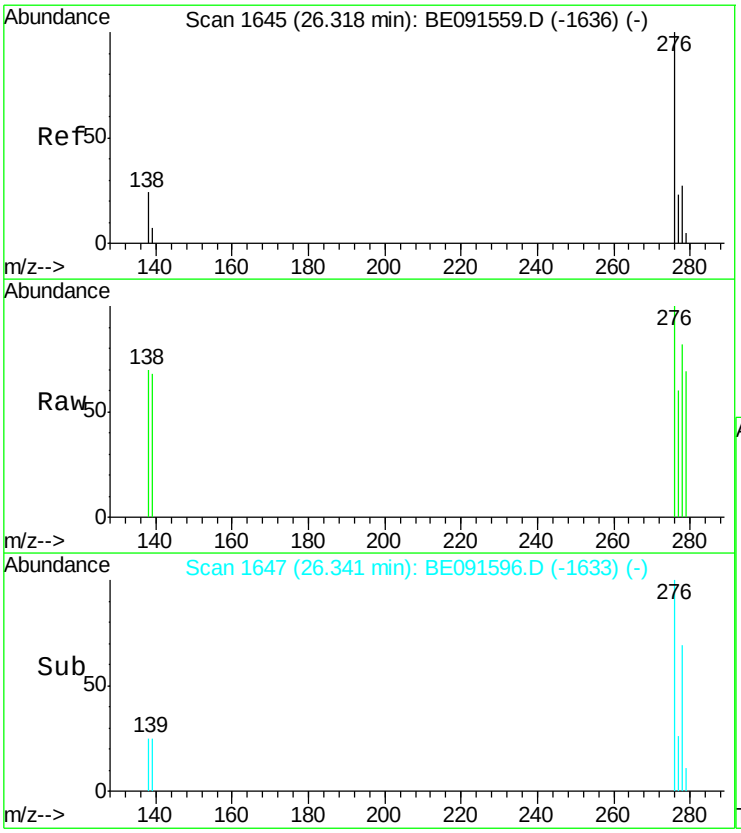

#26
Chrysene
Concen: 0.02 ng
RT: 21.31 min Scan# 1247
Delta R.T. -0.05 min
Lab File: BE091596.D
Acq: 1 Apr 2016 18:43

**Instrument :**
BNA_E
**ClientSampleId :**
PB89421BL

Tgt Ion:228 Resp: 1308

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 16.6 | 18.9 | 28.3# |
| 229 | 34.9 | 19.1 | 28.7# |

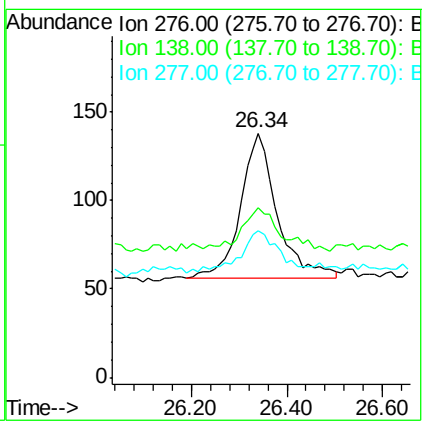


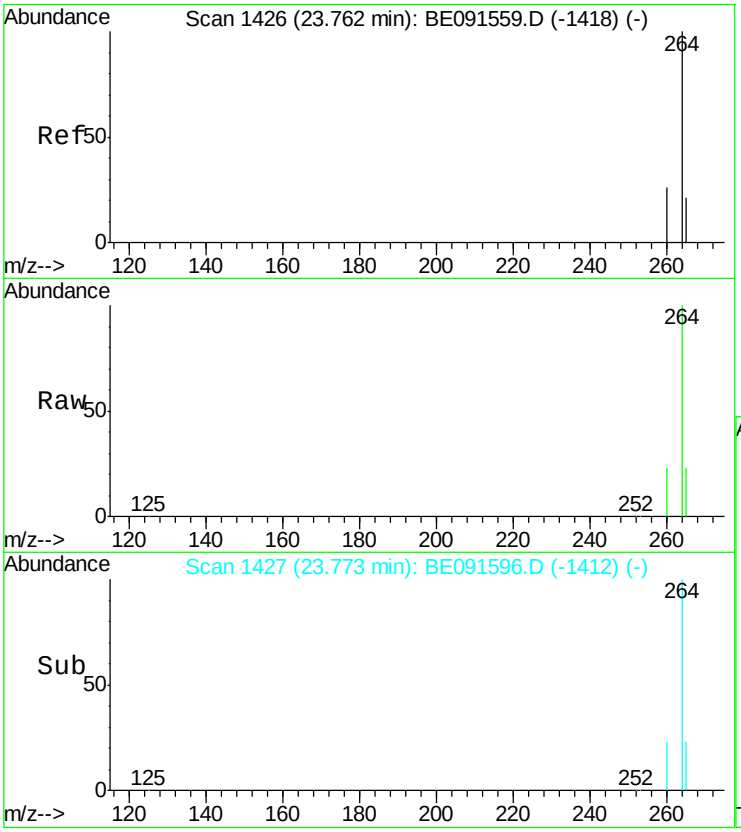




#27
Indeno(1,2,3-cd)pyrene
Concen: 0.01 ng
RT: 26.34 min Scan# 1647
Delta R.T. -0.03 min
Lab File: BE091596.D
Acq: 1 Apr 2016 18:43

Tgt Ion:276 Resp: 437

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 33.4 | 20.2 | 30.4# |
| 277 | 31.4 | 19.8 | 29.8# |



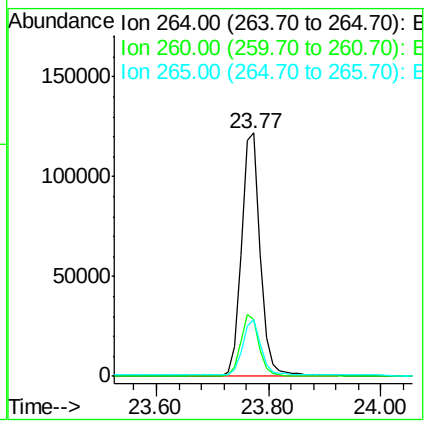


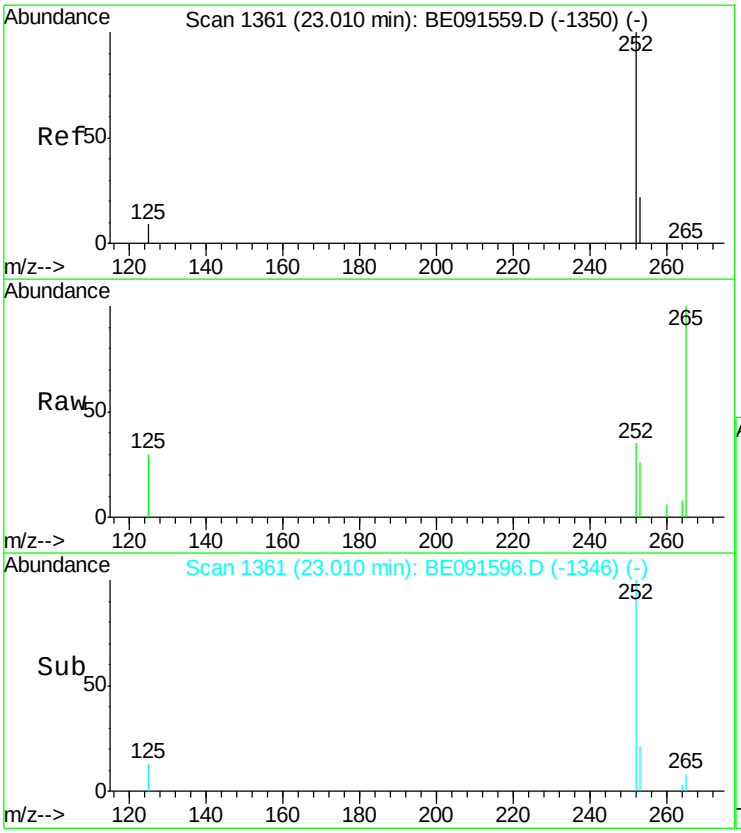

#28
Perylene-d12
Concen: 5.00 ng
RT: 23.77 min Scan# 1427
Delta R.T. -0.02 min
Lab File: BE091596.D
Acq: 1 Apr 2016 18:43

**Instrument :**
BNA_E
**ClientSampleId :**
PB89421BL

Tgt Ion:264 Resp: 288664

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 23.5 | 20.1 | 30.1 |
| 265 | 23.2 | 18.3 | 27.5 |

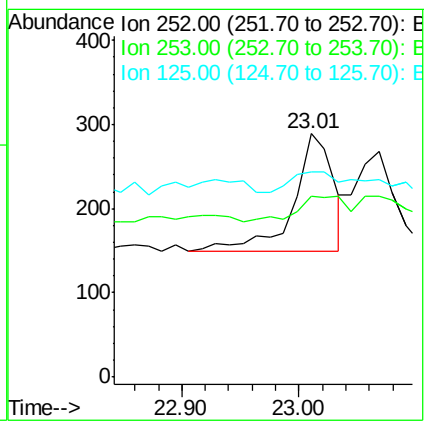


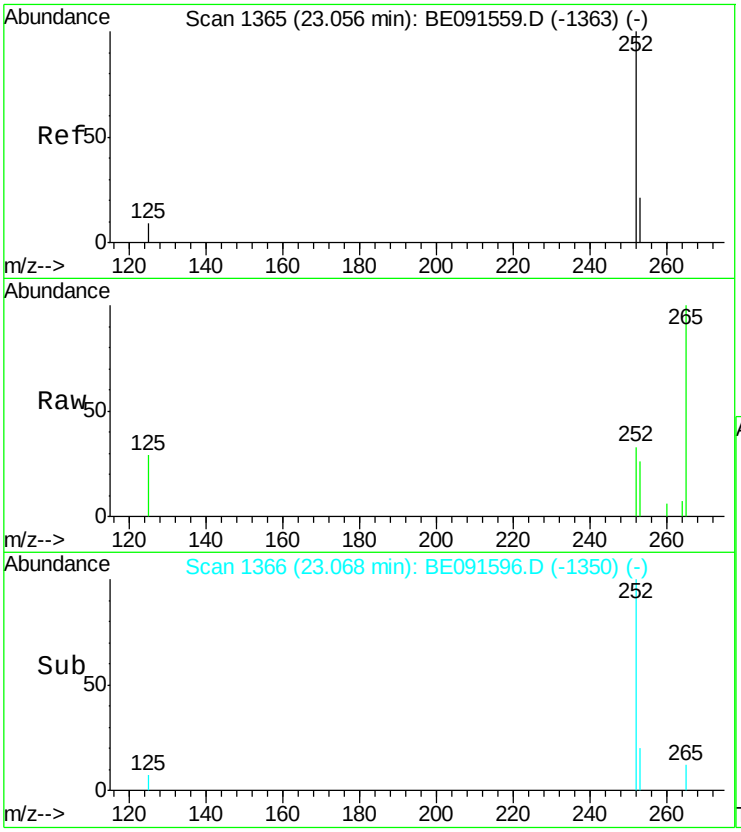




#29
Benzo(b)fluoranthene
Concen: 0.00 ng
RT: 23.01 min Scan# 1361
Delta R.T. -0.02 min
Lab File: BE091596.D
Acq: 1 Apr 2016 18:43

Tgt Ion:252 Resp: 334

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 74.4 | 18.7 | 28.1# |
| 125 | 84.4 | 9.8 | 14.6# |



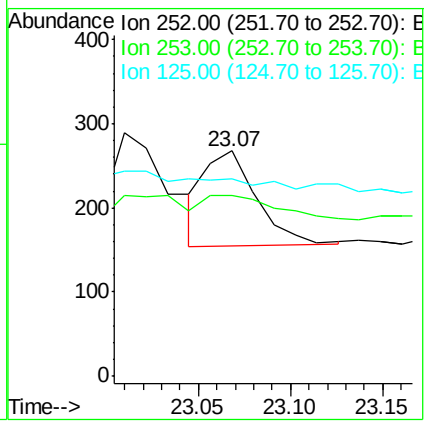


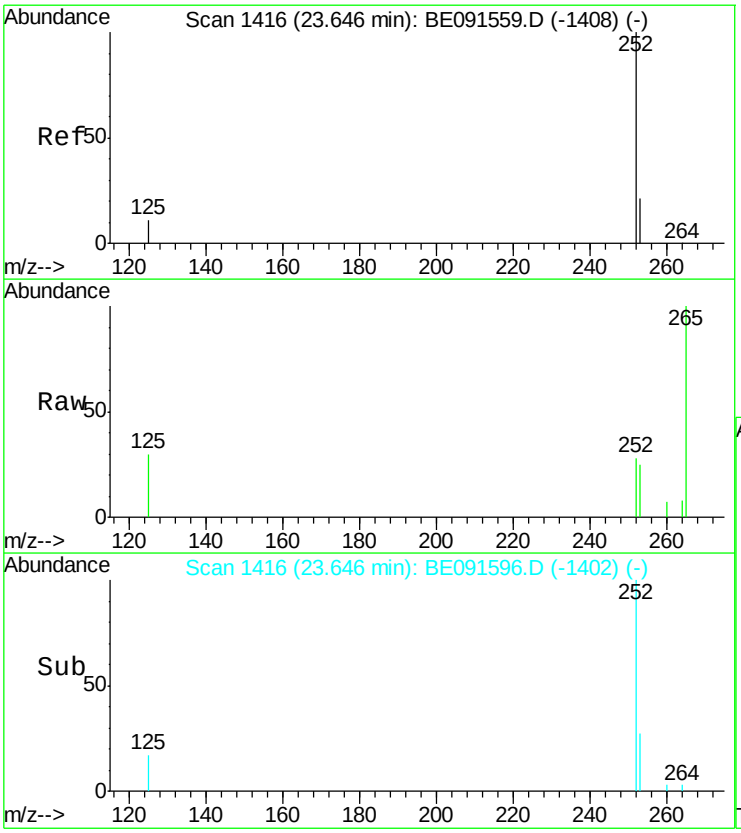

#30
Benzo(k)fluoranthene
Concen: 0.00 ng
RT: 23.07 min Scan# 1366
Delta R.T. -0.01 min
Lab File: BE091596.D
Acq: 1 Apr 2016 18:43

**Instrument :**
BNA_E
**ClientSampleId :**
PB89421BL

Tgt Ion:252 Resp: 221

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 80.2 | 20.2 | 30.4# |
| 125 | 87.7 | 9.4 | 14.2# |

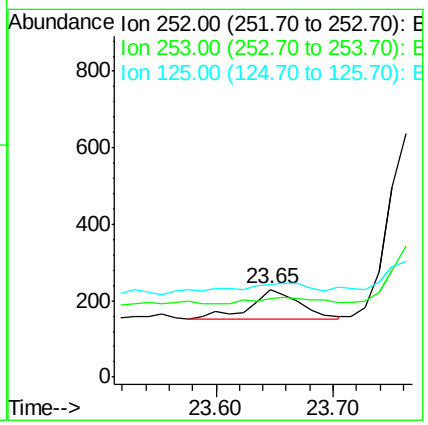


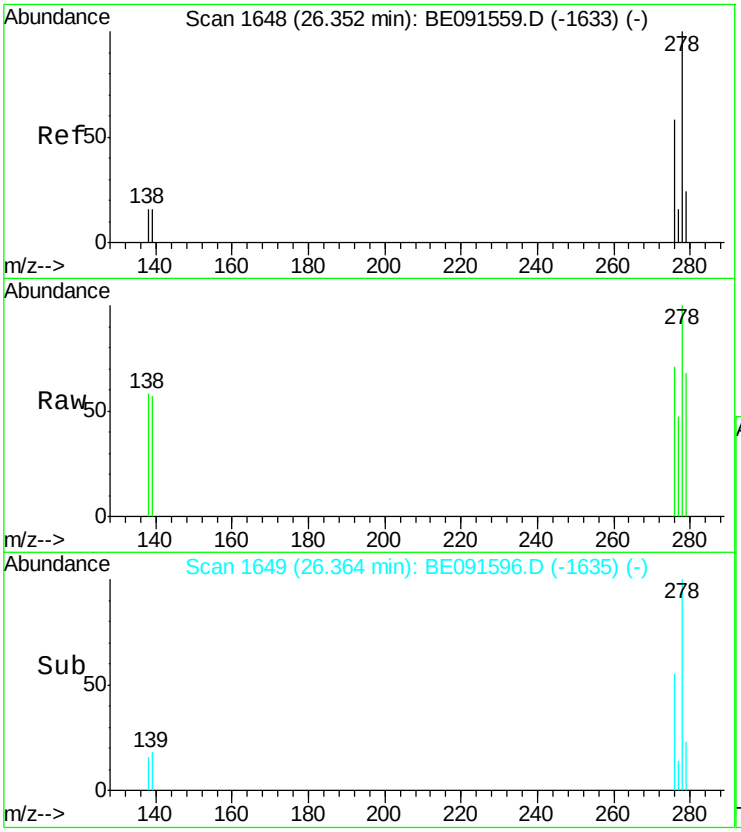




#31
Benzo(a)pyrene
Concen: 0.00 ng
RT: 23.65 min Scan# 1416
Delta R.T. -0.03 min
Lab File: BE091596.D
Acq: 1 Apr 2016 18:43

Tgt Ion:252 Resp: 221

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 89.6 | 19.4 | 29.0# |
| 125 | 104.8 | 11.4 | 17.2# |



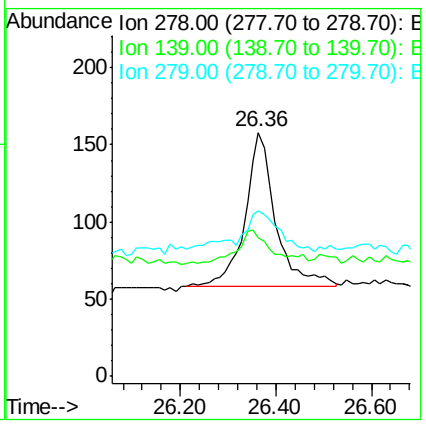


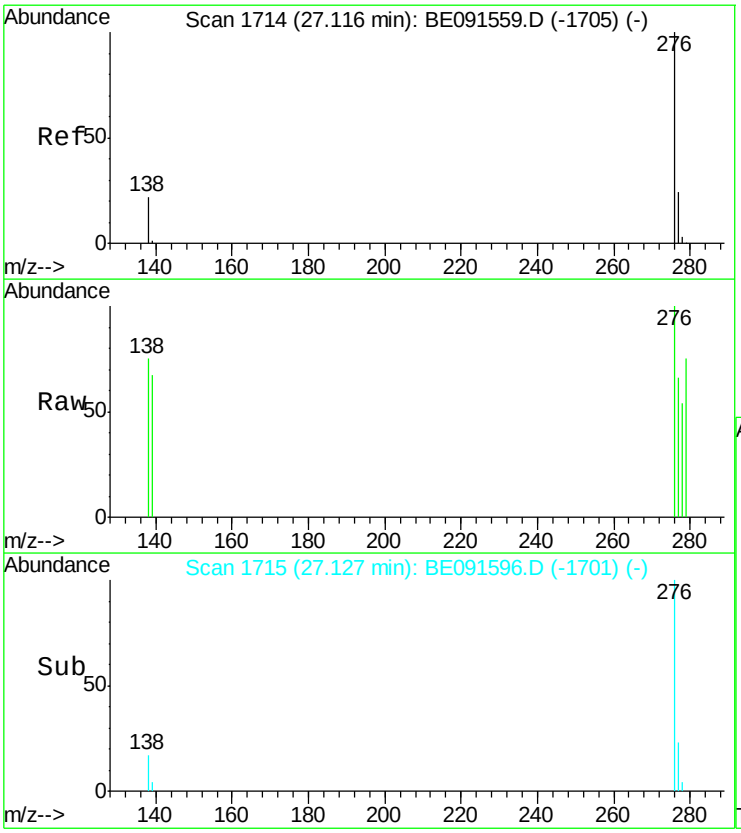

#32
Dibenzo(a,h)anthracene
Concen: 0.01 ng
RT: 26.36 min Scan# 1649
Delta R.T. -0.03 min
Lab File: BE091596.D
Acq: 1 Apr 2016 18:43

**Instrument :**
BNA_E
**ClientSampleId :**
PB89421BL

Tgt Ion:278 Resp: 447

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 57.0 | 14.2 | 21.4# |
| 279 | 67.7 | 19.6 | 29.4# |




#33
Benzo(g,h,i)perylene
Concen: 0.00 ng
RT: 27.13 min Scan# 1715
Delta R.T. -0.03 min
Lab File: BE091596.D
Acq: 1 Apr 2016 18:43

Tgt Ion:276 Resp: 228

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 66.4 | 19.4 | 29.2# |
| 138 | 74.5 | 18.2 | 27.4# |