Quantitation Report (Not Reviewed)

Data Path : Z:\HPCHEM1\BNA_E\Data\BE102114\
Data File : BE088166.D
Acq On : 22 Oct 2014 5:47
Operator : TP/JJ
Sample : F4303-14DL 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** BNA_E
**ClientSampleId :** YS19-SB04-1014DL

Quant Time: Oct 22 06:47:43 2014
Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-PAH-BE102014.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 21 02:11:14 2014
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 7.14 | 152 | 22265 | 5.00 | ng | | 0.00 |
| 3) Naphthalene-d8 | 8.70 | 136 | 87594 | 5.00 | ng | | 0.00 |
| 7) Acenaphthene-d10 | 10.85 | 164 | 47456 | 5.00 | ng | | 0.00 |
| 12) Phenanthrene-d10 | 12.96 | 188 | 90888 | 5.00 | ng | | 0.00 |
| 16) Chrysene-d12 | 18.38 | 240 | 52385 | 5.00 | ng | | 0.00 |
| 22) Perylene-d12 | 21.44 | 264 | 43814 | 5.00 | ng | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 4) Nitrobenzene-d5 | 7.83 | 82 | 82478 | 13.06 | ng | | 0.00 |
| 8) 2-Fluorobiphenyl | 10.04 | 172 | 132465 | 10.11 | ng | | 0.00 |
| 18) Terphenyl-d14 | 16.15 | 244 | 103789 | 12.31 | ng | | 0.00 |
| **Target Compounds** | | | | | | | Qvalue |
| 9) Acenaphthylene | 10.67 | 152 | 5219 | 0.07 | ng | | 99 |
| 10) Acenaphthene | 10.88 | 154 | 1563 | 0.14 | ng | | 88 |
| 11) Fluorene | 11.55 | 166 | 1718 | 0.15 | ng | | 97 |
| 13) Phenanthrene | 13.01 | 178 | 136434 | 1.90 | ng | | 95 |
| 14) Anthracene | 13.09 | 178 | 29190 | 0.41 | ng | | 97 |
| 15) Fluoranthene | 15.25 | 202 | 56476 | 3.27 | ng | | 99 |
| 17) Pyrene | 15.70 | 202 | 49407 | 3.47 | ng | | 96 |
| 19) Benzo(a)anthracene | 18.36 | 228 | 80366 | 1.73 | ng | | 98 |
| 20) Chrysene | 18.44 | 228 | 84081 | 1.84 | ng | | 97 |
| 21) Indeno(1,2,3-cd)pyrene | 23.63 | 276 | 32385 | 0.64 | ng | # | 89 |
| 23) Benzo(b)fluoranthene | 20.69 | 252 | 17713 | 1.70 | ng | | 98 |
| 24) Benzo(k)fluoranthene | 20.74 | 252 | 7544 | 0.68 | ng | | 97 |
| 25) Benzo(a)pyrene | 21.32 | 252 | 12673 | 1.32 | ng | | 98 |
| 26) Dibenzo(a,h)anthracene | 23.72 | 278 | 1781 | 0.19 | ng | # | 84 |
| 27) Benzo(g,h,i)perylene | 24.26 | 276 | 30885 | 0.74 | ng | | 98 |

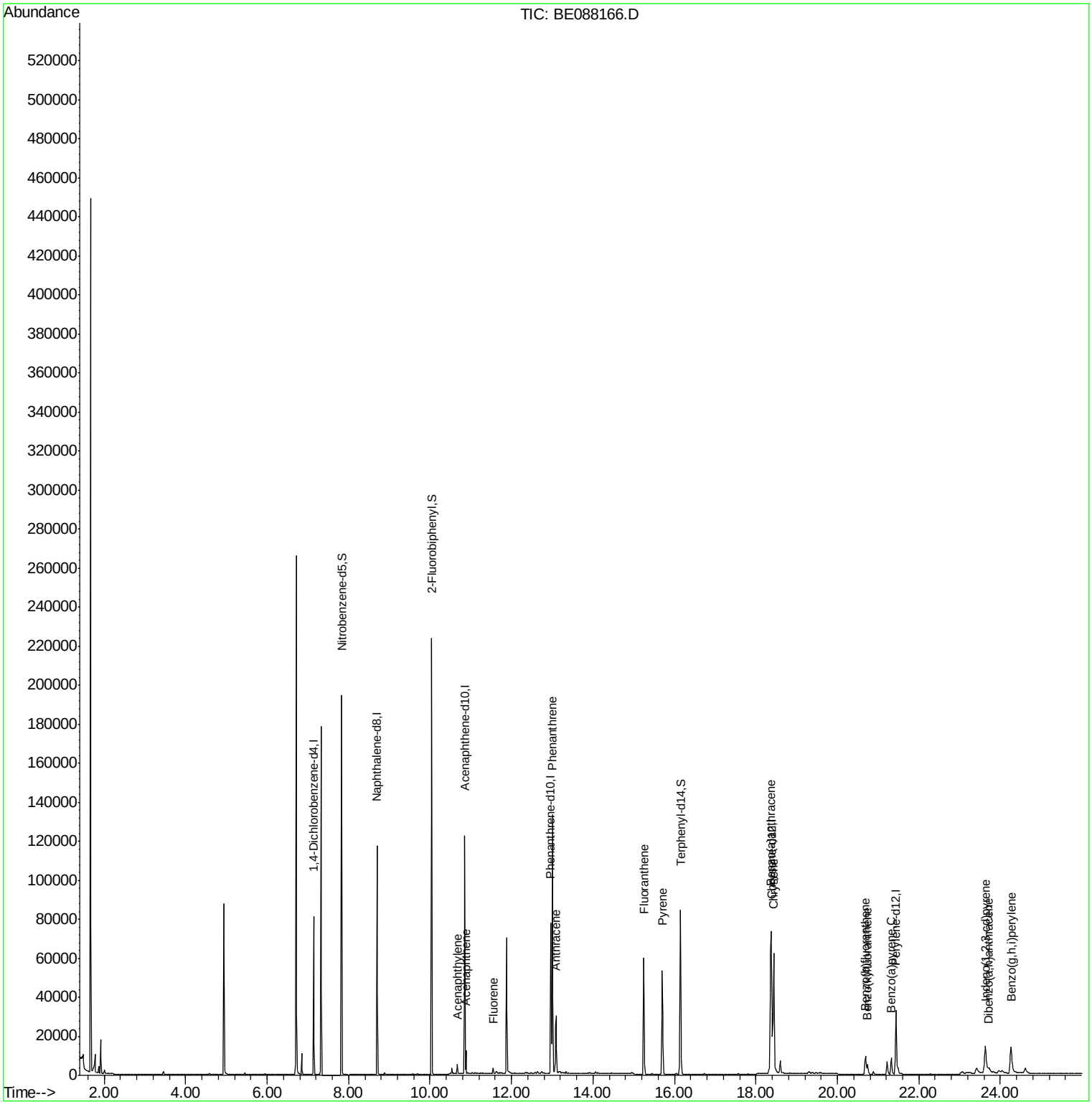
(#) = qualifier out of range (m) = manual integration (+) = signals summed

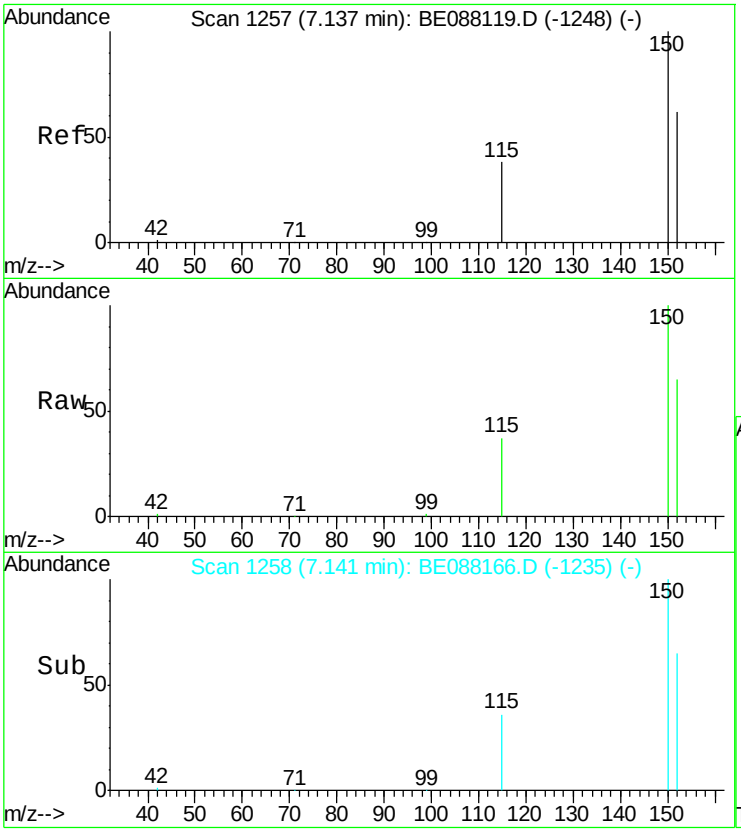
Quantitation Report (Not Reviewed)

Data Path : Z:\HPCHEM1\BNA_E\Data\BE102114\
Data File : BE088166.D
Acq On : 22 Oct 2014 5:47
Operator : TP/JJ
Sample : F4303-14DL 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :**
BNA_E
**ClientSampleId :**
YS19-SB04-1014DL

Quant Time: Oct 22 06:47:43 2014
Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-PAH-BE102014.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 21 02:11:14 2014
Response via : Initial Calibration



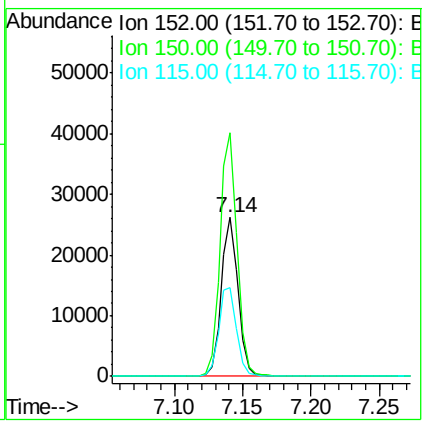


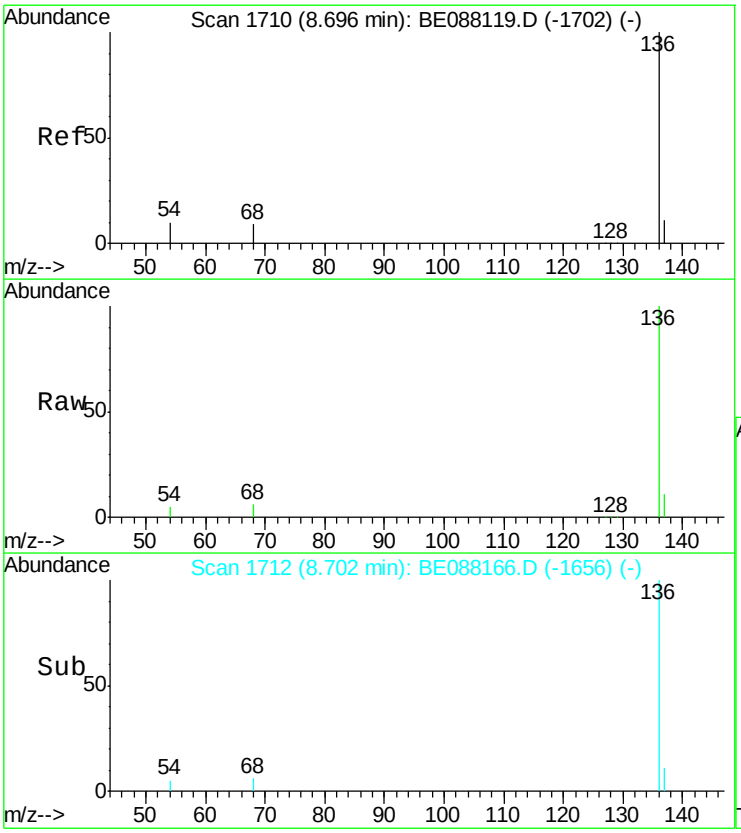

#1
1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 7.14 min Scan# 1258
Delta R.T. 0.00 min
Lab File: BE088166.D
Acq: 22 Oct 2014 5:47

**Instrument :**
BNA_E
**ClientSampleId :**
YS19-SB04-1014DL

Tgt Ion:152 Resp: 22265

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 153.4 | 129.2 | 193.8 |
| 115 | 56.0 | 49.3 | 73.9 |

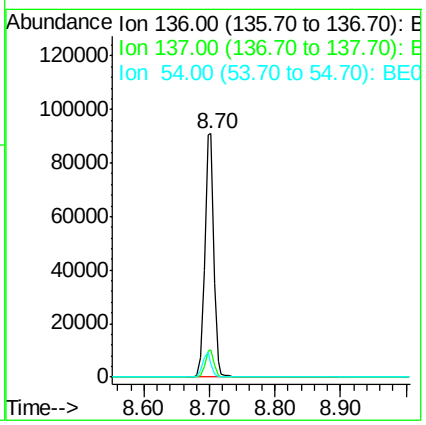


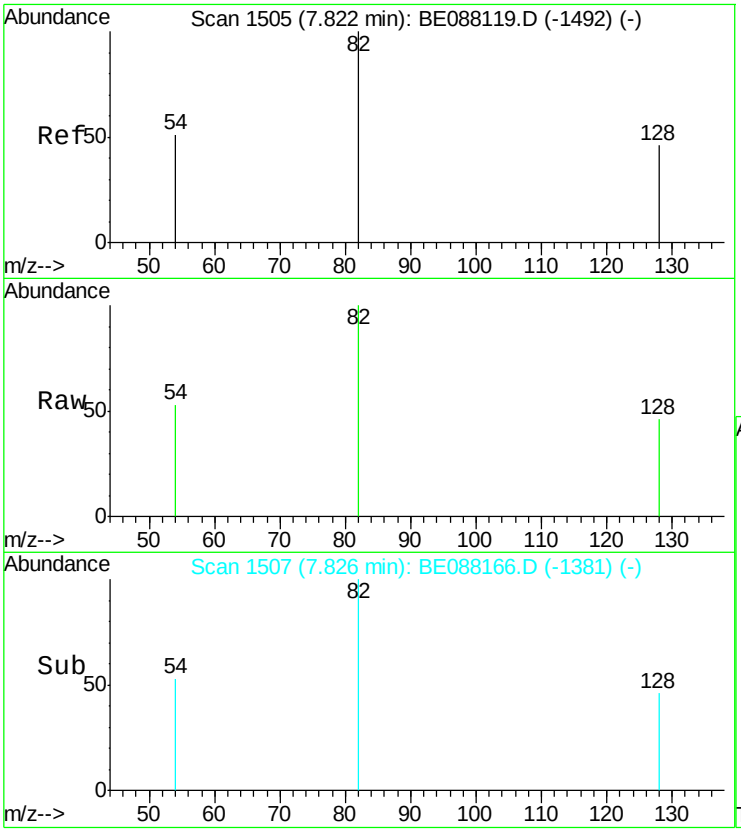




#3
Naphthalene-d8
Concen: 5.00 ng
RT: 8.70 min Scan# 1712
Delta R.T. 0.01 min
Lab File: BE088166.D
Acq: 22 Oct 2014 5:47

Tgt Ion:136 Resp: 87594

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.2 | 8.6 | 12.8 |
| 54 | 5.4 | 7.7 | 11.5# |



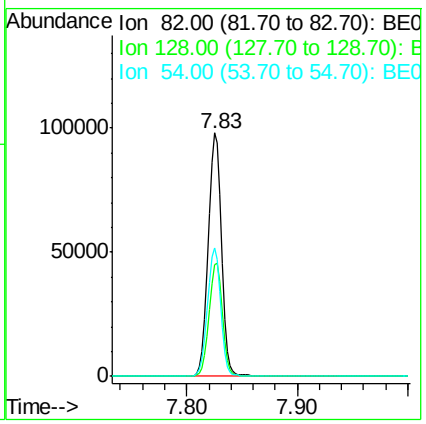


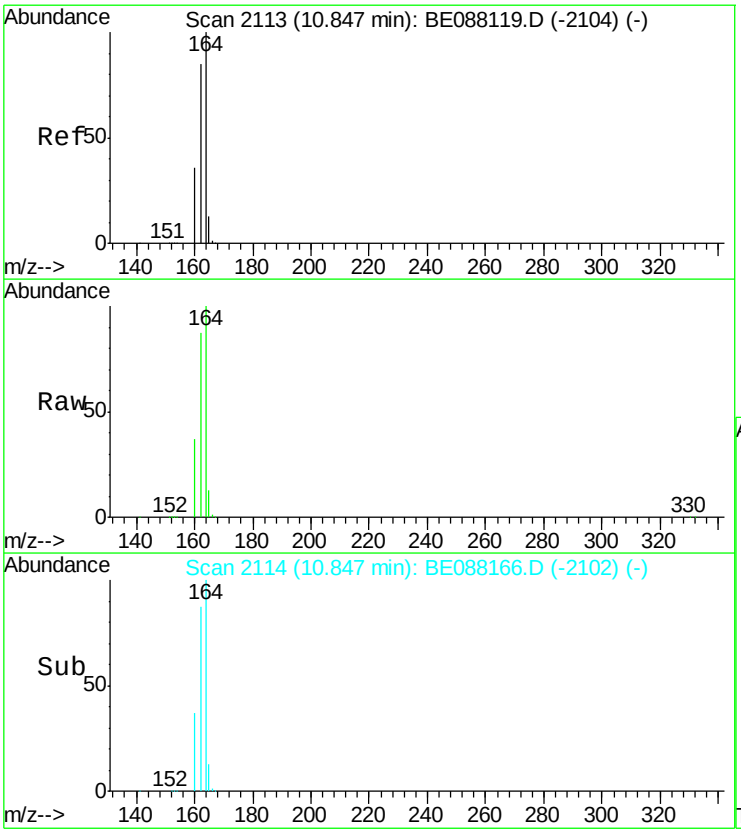

#4
Nitrobenzene-d5
Concen: 13.06 ng
RT: 7.83 min Scan# 1507
Delta R.T. 0.00 min
Lab File: BE088166.D
Acq: 22 Oct 2014 5:47

**Instrument :**
BNA_E
**ClientSampleId :**
YS19-SB04-1014DL

Tgt Ion: 82 Resp: 82478

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 45.7 | 37.1 | 55.7 |
| 54 | 52.9 | 41.1 | 61.7 |

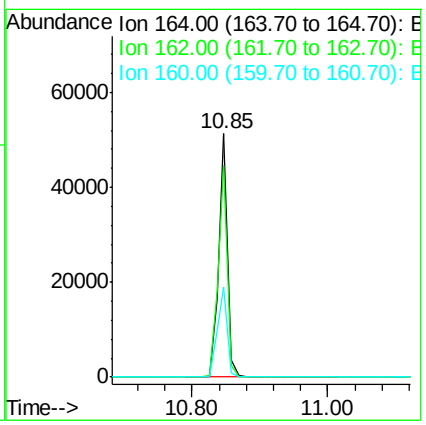


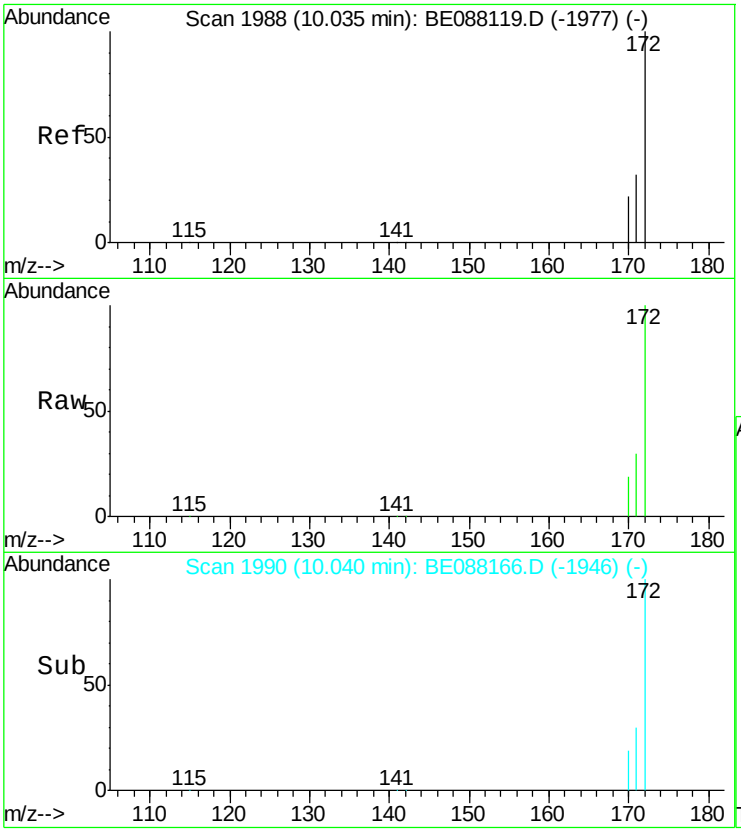




#7
Acenaphthene-d10
Concen: 5.00 ng
RT: 10.85 min Scan# 2114
Delta R.T. 0.00 min
Lab File: BE088166.D
Acq: 22 Oct 2014 5:47

Tgt Ion:164 Resp: 47456

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 86.7 | 68.3 | 102.5 |
| 160 | 37.0 | 28.7 | 43.1 |



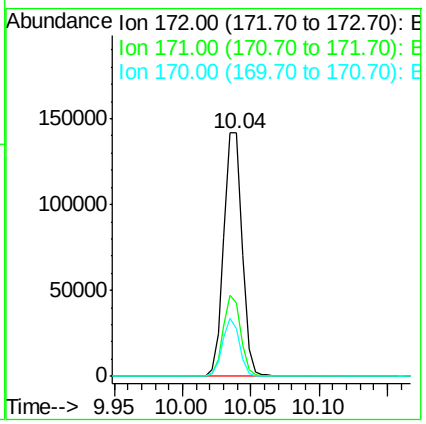


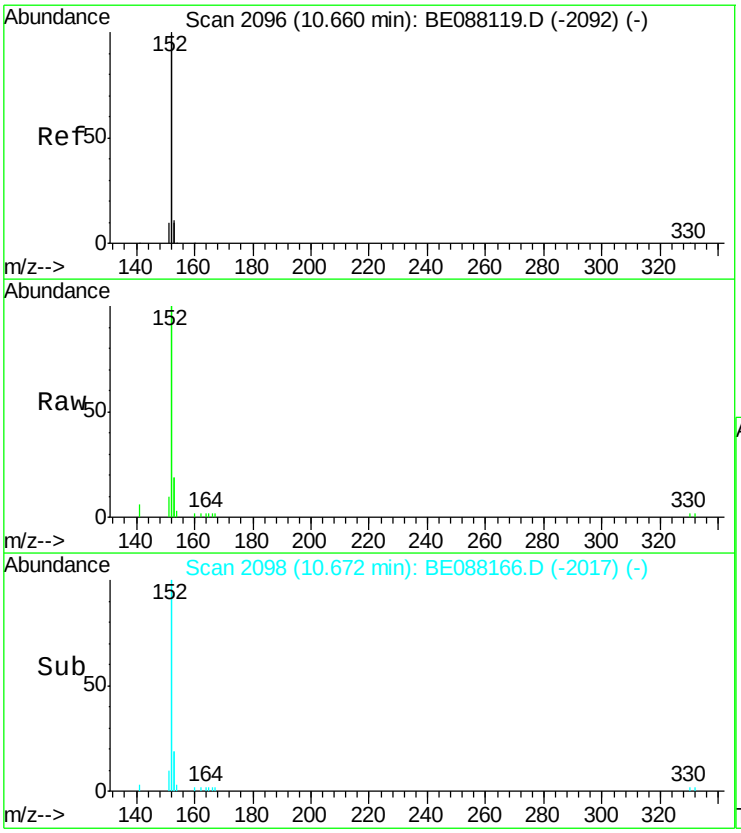

#8
2-Fluorobiphenyl
Concen: 10.11 ng
RT: 10.04 min Scan# 1990
Delta R.T. 0.00 min
Lab File: BE088166.D
Acq: 22 Oct 2014 5:47

**Instrument :**
BNA_E
**ClientSampleId :**
YS19-SB04-1014DL

Tgt Ion:172 Resp: 132465

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 30.4 | 25.4 | 38.2 |
| 170 | 19.4 | 17.4 | 26.2 |

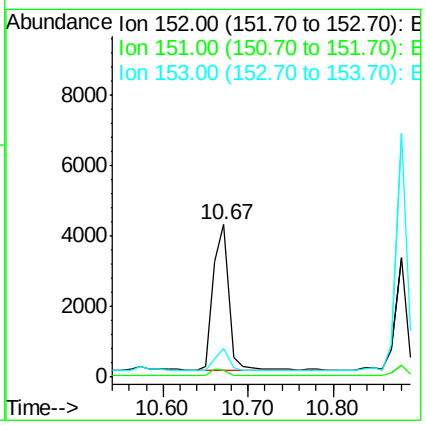


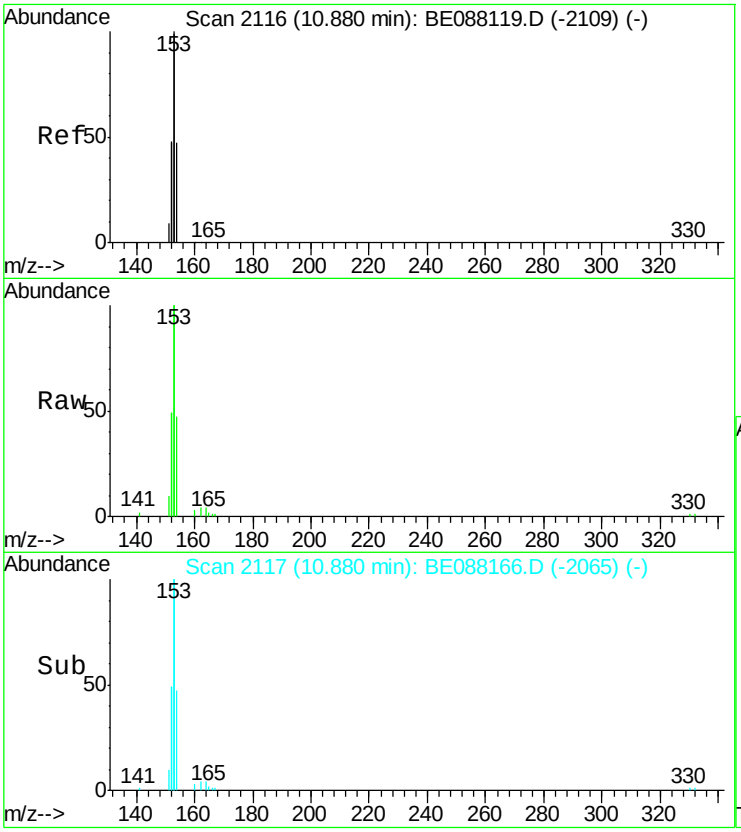




#9
Acenaphthylene
Concen: 0.07 ng
RT: 10.67 min Scan# 2098
Delta R.T. 0.01 min
Lab File: BE088166.D
Acq: 22 Oct 2014 5:47

Tgt Ion:152 Resp: 5219

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 4.6 | 3.7 | 5.5 |
| 153 | 13.7 | 10.4 | 15.6 |



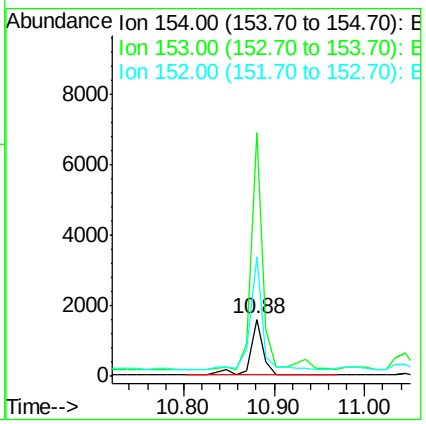


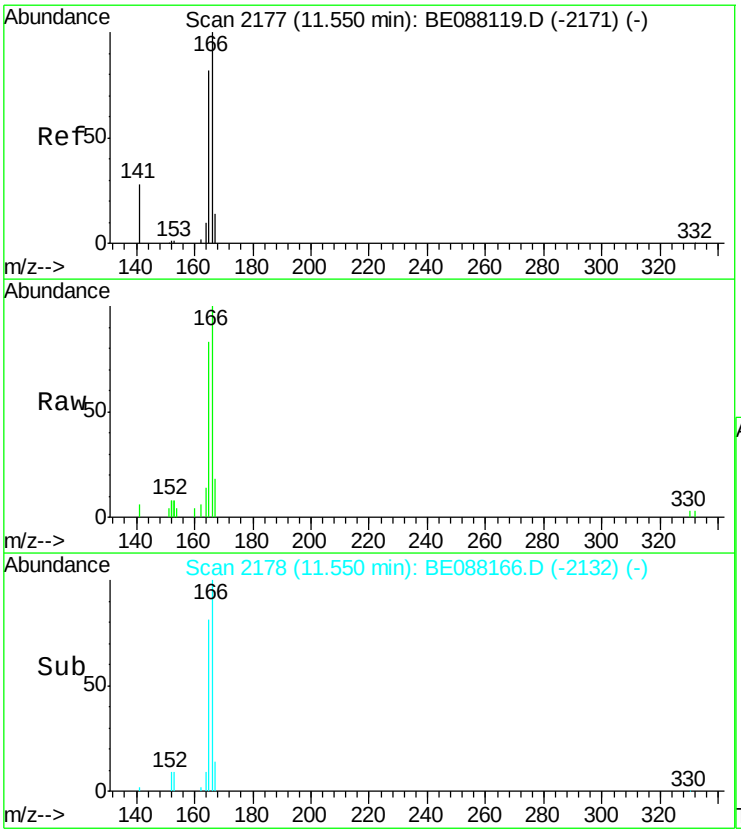

#10
Acenaphthene
Concen: 0.14 ng
RT: 10.88 min Scan# 2117
Delta R.T. 0.00 min
Lab File: BE088166.D
Acq: 22 Oct 2014 5:47

**Instrument :**
BNA_E
**ClientSampleId :**
YS19-SB04-1014DL

Tgt Ion:154 Resp: 1563

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 369.9 | 327.8 | 491.6 |
| 152 | 200.6 | 157.6 | 236.4 |

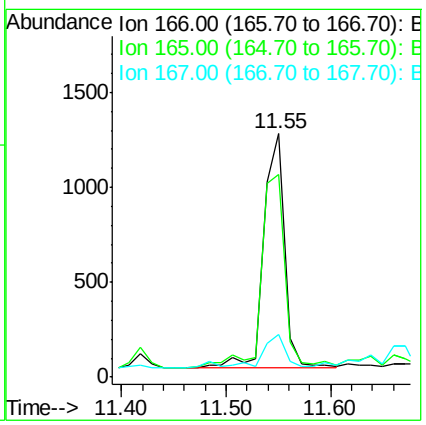


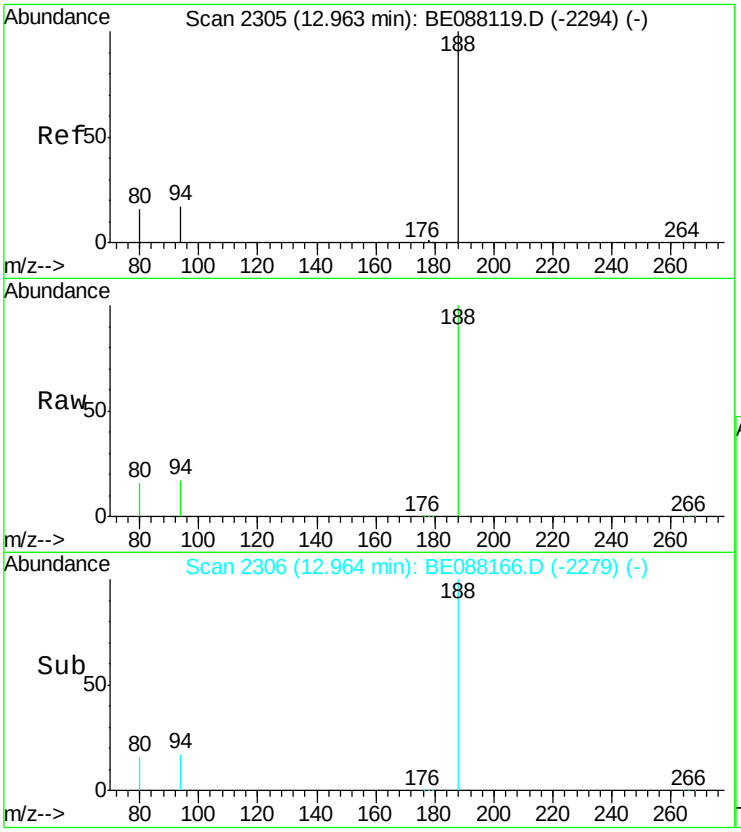




#11
Fluorene
Concen: 0.15 ng
RT: 11.55 min Scan# 2178
Delta R.T. 0.00 min
Lab File: BE088166.D
Acq: 22 Oct 2014 5:47

Tgt Ion:166 Resp: 1718

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 92.5 | 71.4 | 107.2 |
| 167 | 14.4 | 10.6 | 16.0 |



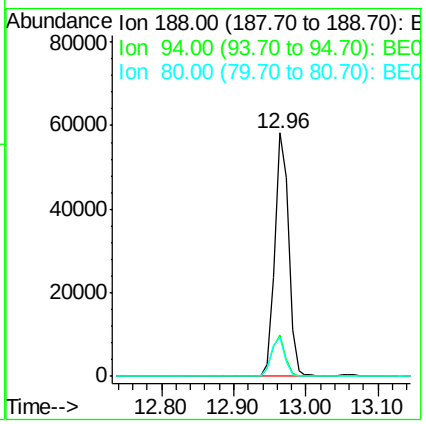


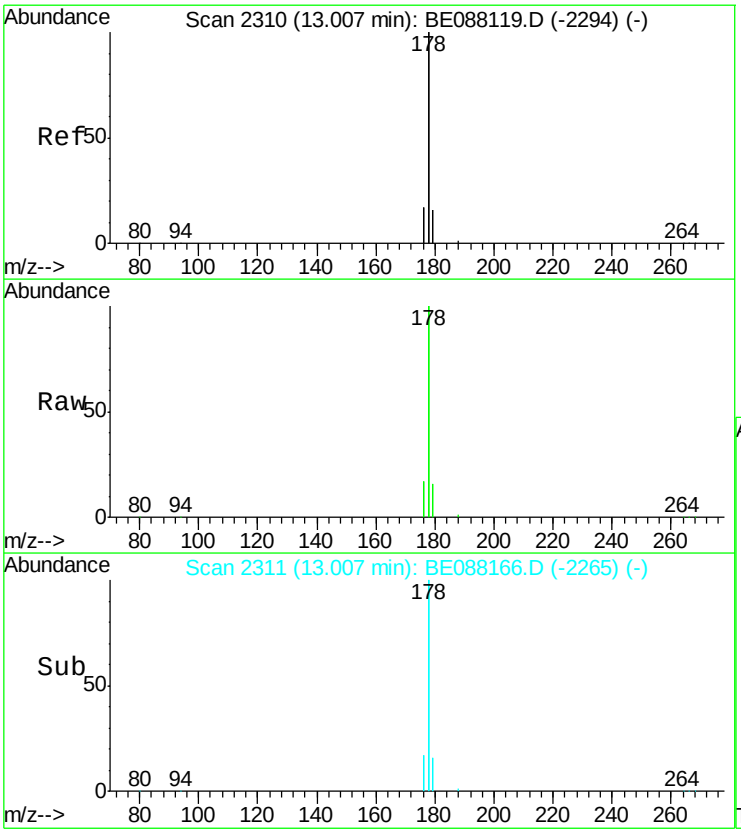

#12
Phenanthrene-d10
Concen: 5.00 ng
RT: 12.96 min Scan# 2306
Delta R.T. 0.00 min
Lab File: BE088166.D
Acq: 22 Oct 2014 5:47

**Instrument :**
BNA_E
**ClientSampleId :**
YS19-SB04-1014DL

Tgt Ion:188 Resp: 90888

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 16.8 | 13.9 | 20.9 |
| 80 | 15.9 | 12.9 | 19.3 |

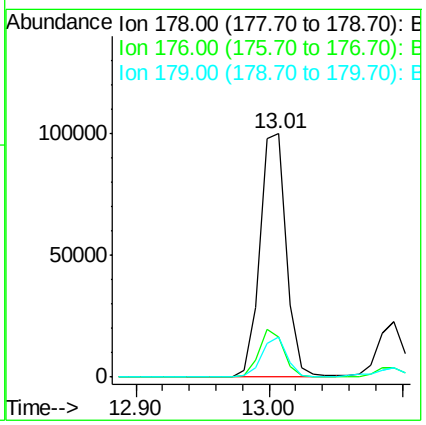


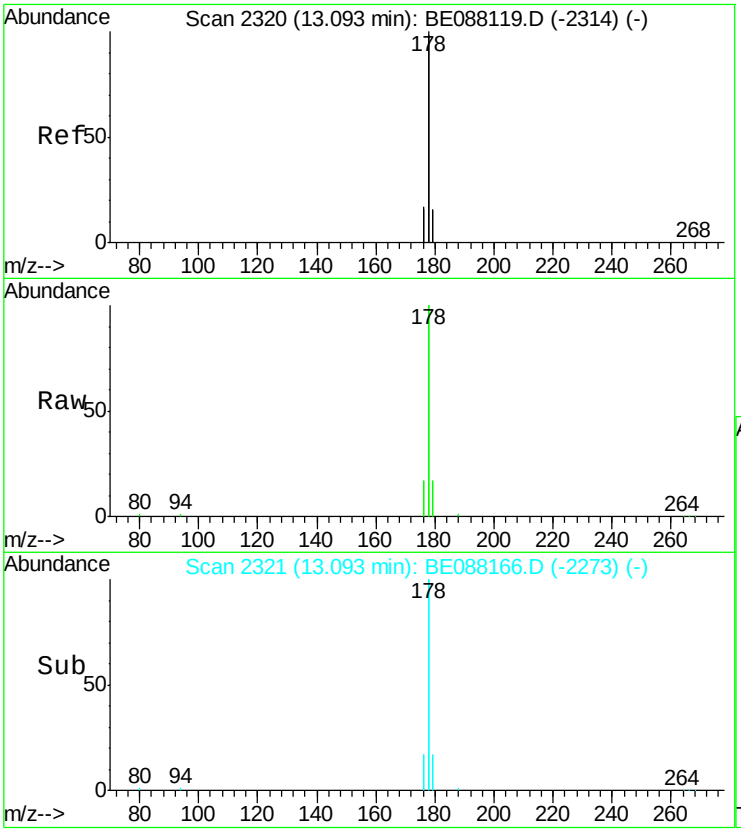




#13
Phenanthrene
Concen: 1.90 ng
RT: 13.01 min Scan# 2311
Delta R.T. 0.00 min
Lab File: BE088166.D
Acq: 22 Oct 2014 5:47

Tgt Ion:178 Resp: 136434

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.4 | 12.5 | 18.7 |
| 179 | 15.4 | 13.5 | 20.3 |



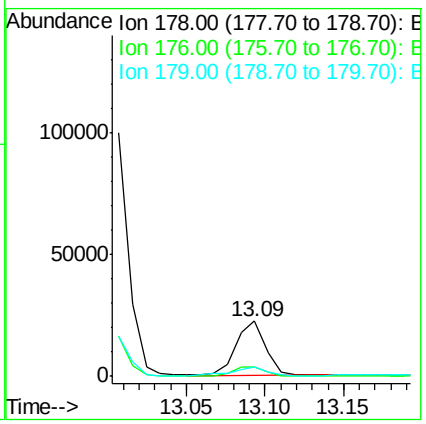


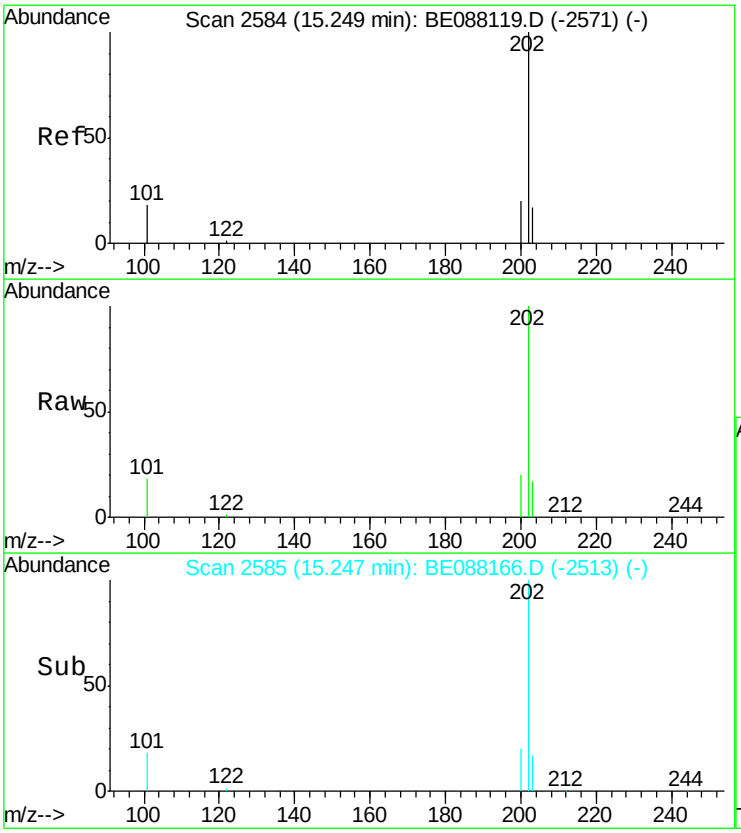

#14
Anthracene
Concen: 0.41 ng
RT: 13.09 min Scan# 2321
Delta R.T. 0.00 min
Lab File: BE088166.D
Acq: 22 Oct 2014 5:47

**Instrument :**
BNA_E
**ClientSampleId :**
YS19-SB04-1014DL

Tgt Ion:178 Resp: 29190

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.1 | 14.6 | 21.8 |
| 179 | 18.3 | 12.5 | 18.7 |

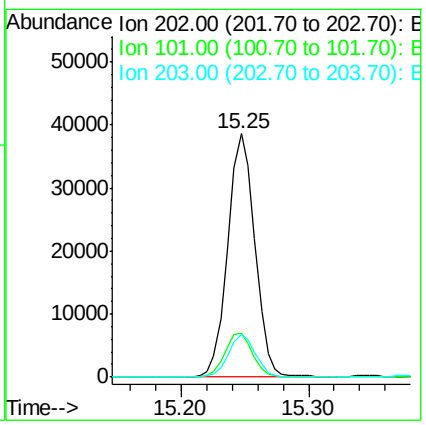


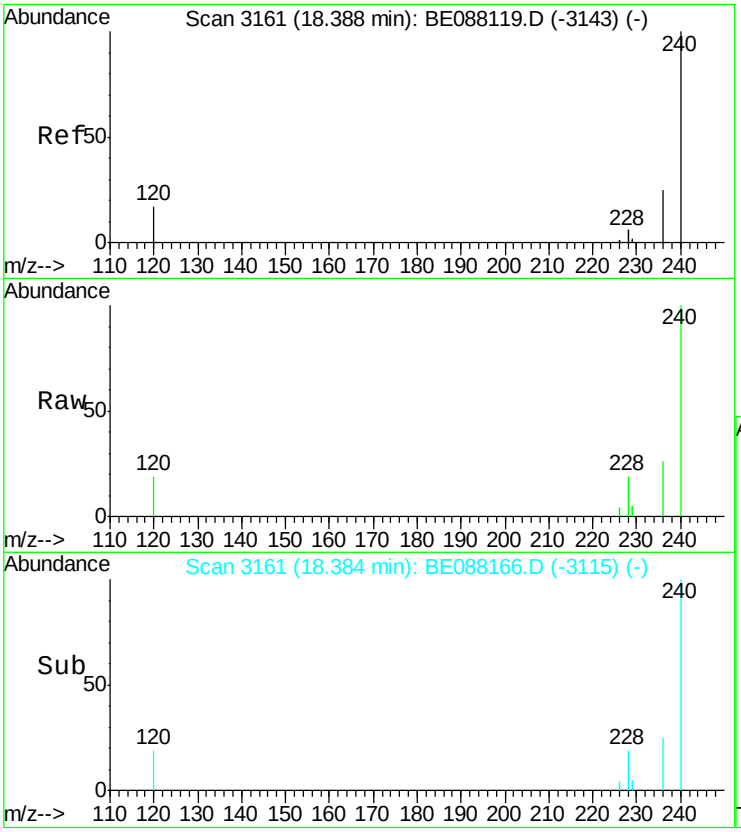




#15
Fluoranthene
Concen: 3.27 ng
RT: 15.25 min Scan# 2585
Delta R.T. -0.00 min
Lab File: BE088166.D
Acq: 22 Oct 2014 5:47

Tgt Ion:202 Resp: 56476

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 18.2 | 14.8 | 22.2 |
| 203 | 17.2 | 13.5 | 20.3 |



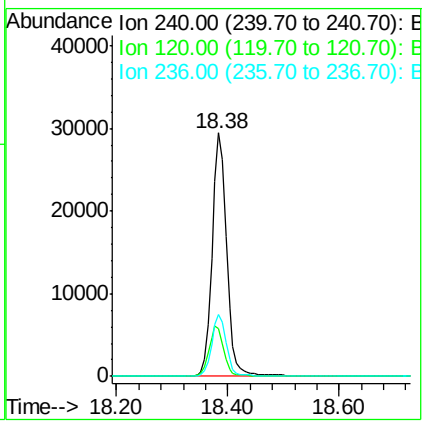


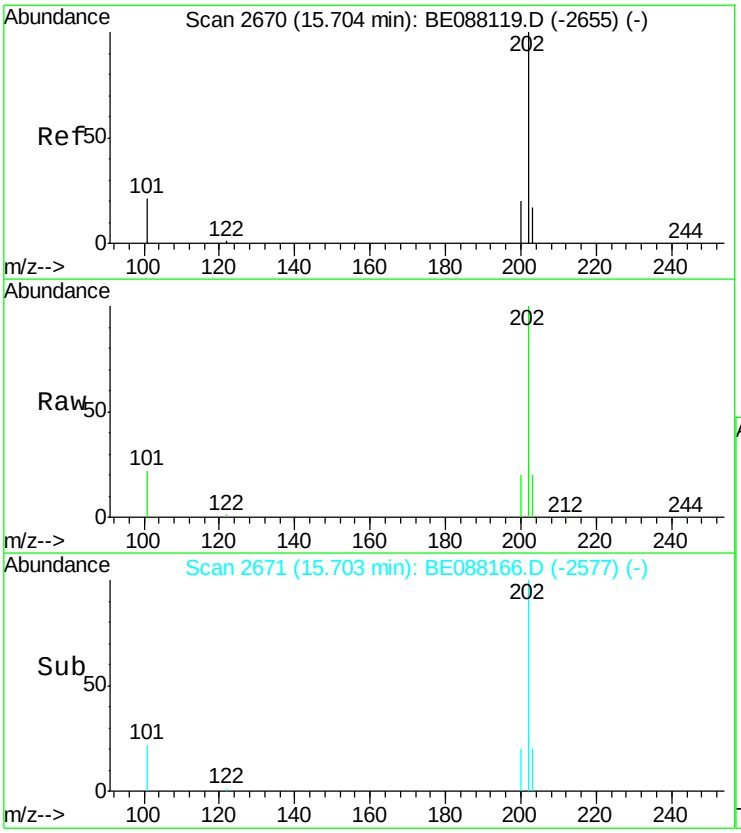

#16
Chrysene-d12
Concen: 5.00 ng
RT: 18.38 min Scan# 3161
Delta R.T. -0.00 min
Lab File: BE088166.D
Acq: 22 Oct 2014 5:47

**Instrument :**
BNA_E
**ClientSampleId :**
YS19-SB04-1014DL

Tgt Ion:240 Resp: 52385

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 19.5 | 13.9 | 20.9 |
| 236 | 25.6 | 19.9 | 29.9 |

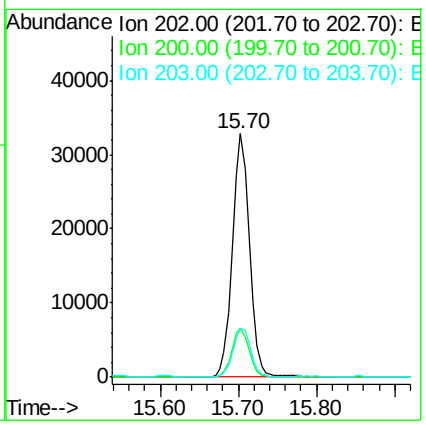


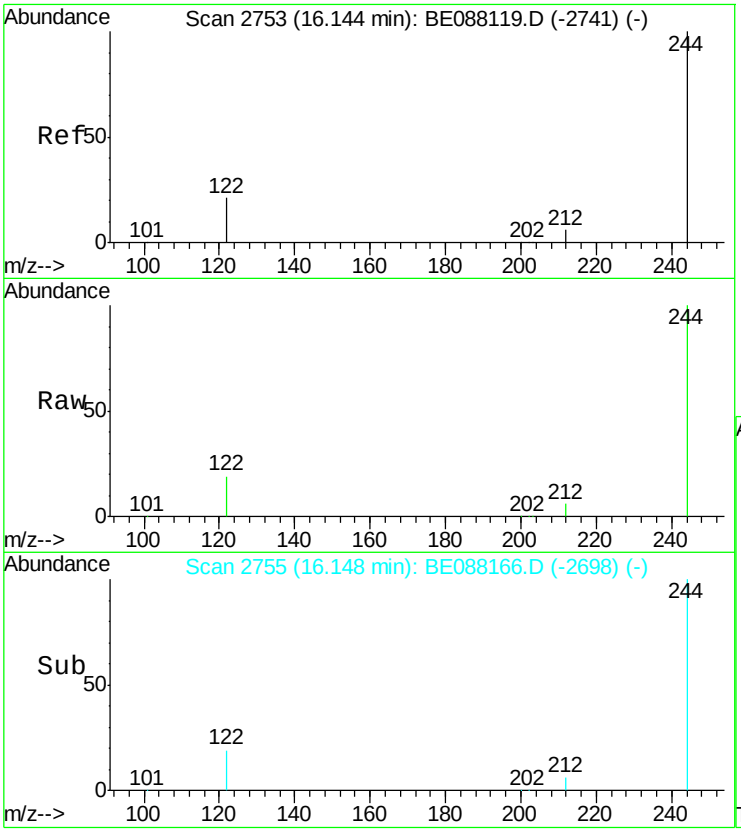




#17
Pyrene
Concen: 3.47 ng
RT: 15.70 min Scan# 2671
Delta R.T. -0.00 min
Lab File: BE088166.D
Acq: 22 Oct 2014 5:47

Tgt Ion:202 Resp: 49407

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 20.3 | 16.1 | 24.1 |
| 203 | 20.6 | 13.9 | 20.9 |



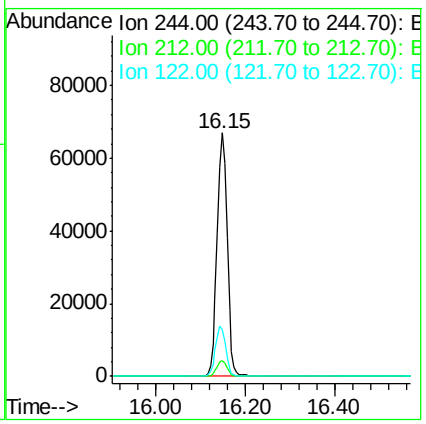


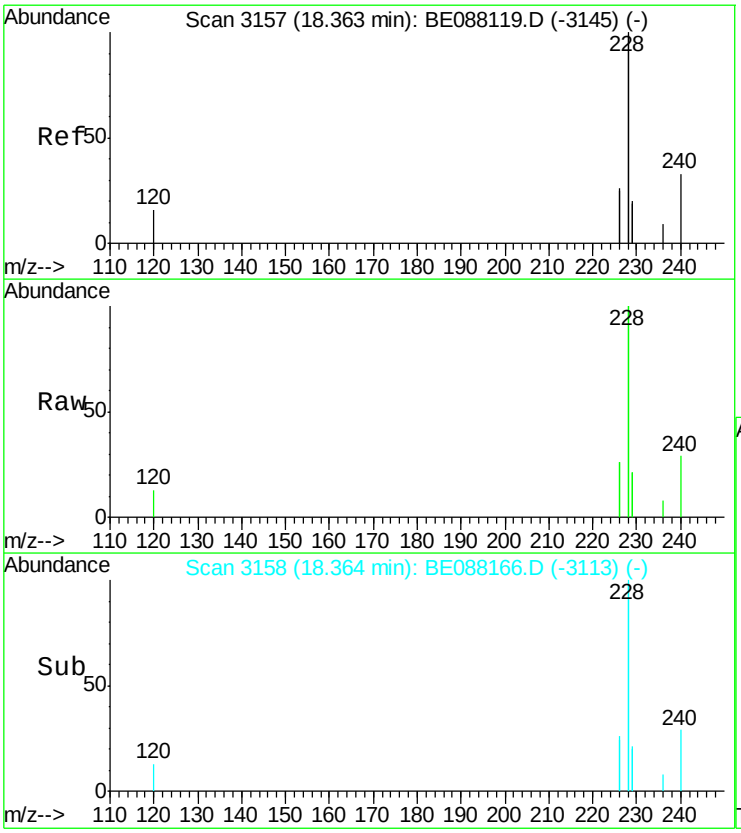

#18
Terphenyl-d14
Concen: 12.31 ng
RT: 16.15 min Scan# 2755
Delta R.T. 0.00 min
Lab File: BE088166.D
Acq: 22 Oct 2014 5:47

**Instrument :**
BNA_E
**ClientSampleId :**
YS19-SB04-1014DL

Tgt Ion:244 Resp: 103789

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 6.4 | 5.4 | 8.0 |
| 122 | 19.3 | 17.5 | 26.3 |

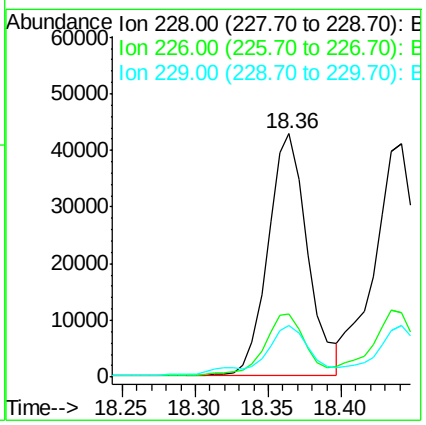


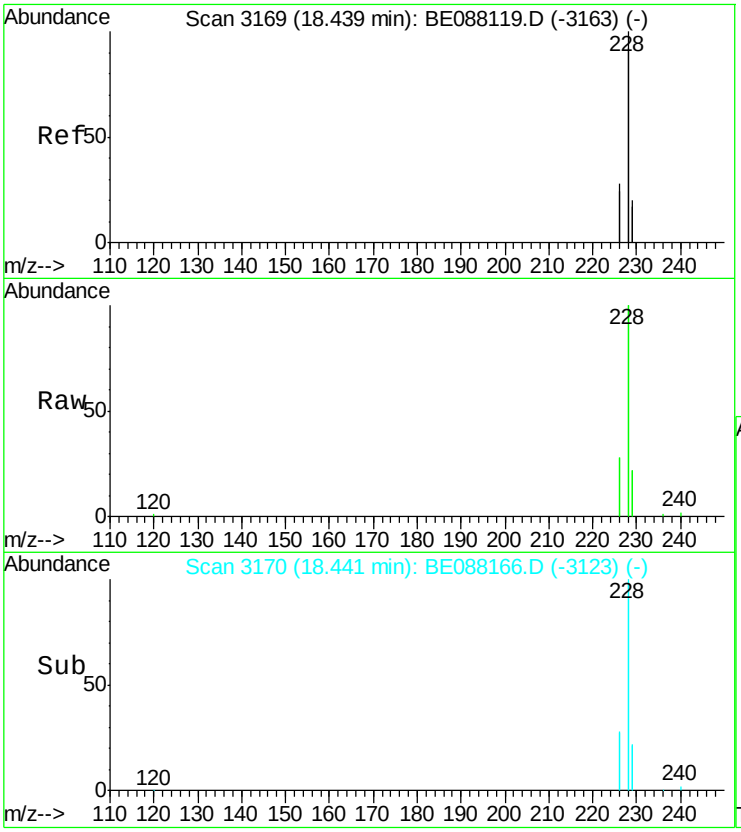




#19
Benzo(a)anthracene
Concen: 1.73 ng
RT: 18.36 min Scan# 3158
Delta R.T. 0.00 min
Lab File: BE088166.D
Acq: 22 Oct 2014 5:47

Tgt Ion:228 Resp: 80366

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 25.8 | 20.8 | 31.2 |
| 229 | 21.3 | 15.6 | 23.4 |



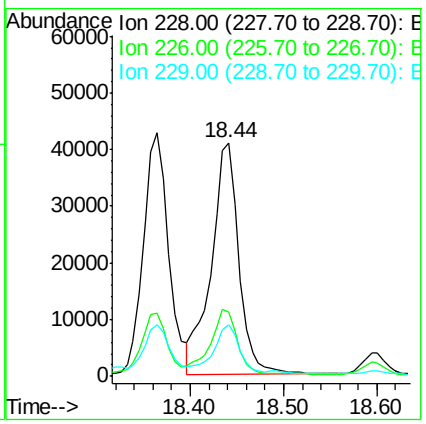


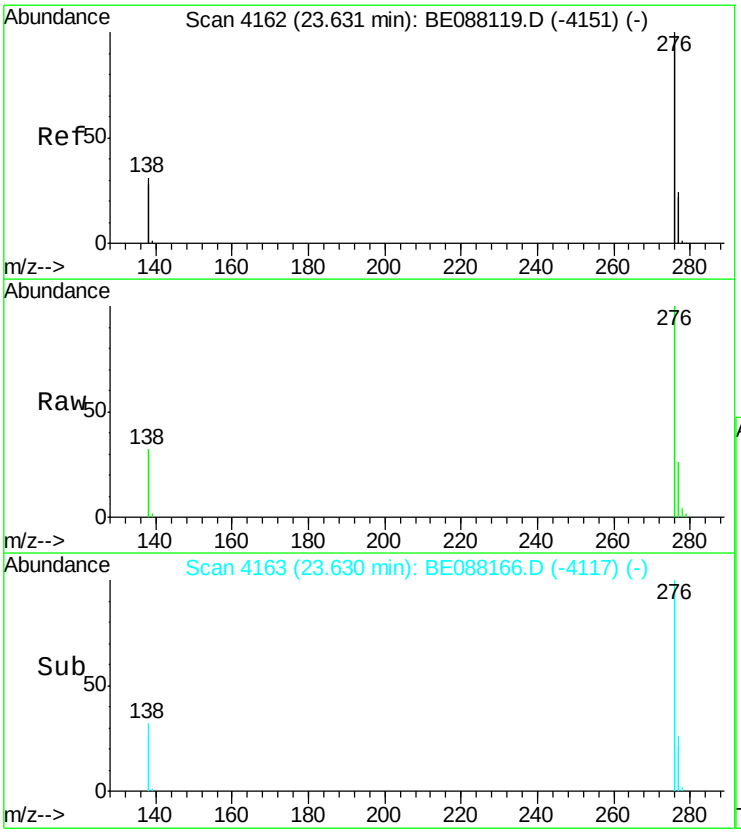

#20
Chrysene
Concen: 1.84 ng
RT: 18.44 min Scan# 3170
Delta R.T. 0.00 min
Lab File: BE088166.D
Acq: 22 Oct 2014 5:47

**Instrument :**
BNA_E
**ClientSampleId :**
YS19-SB04-1014DL

Tgt Ion:228 Resp: 84081

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 27.7 | 22.7 | 34.1 |
| 229 | 22.0 | 15.8 | 23.6 |

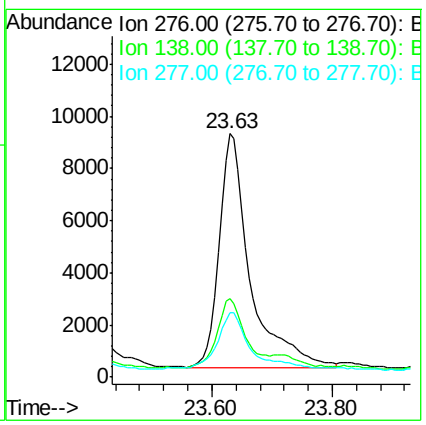


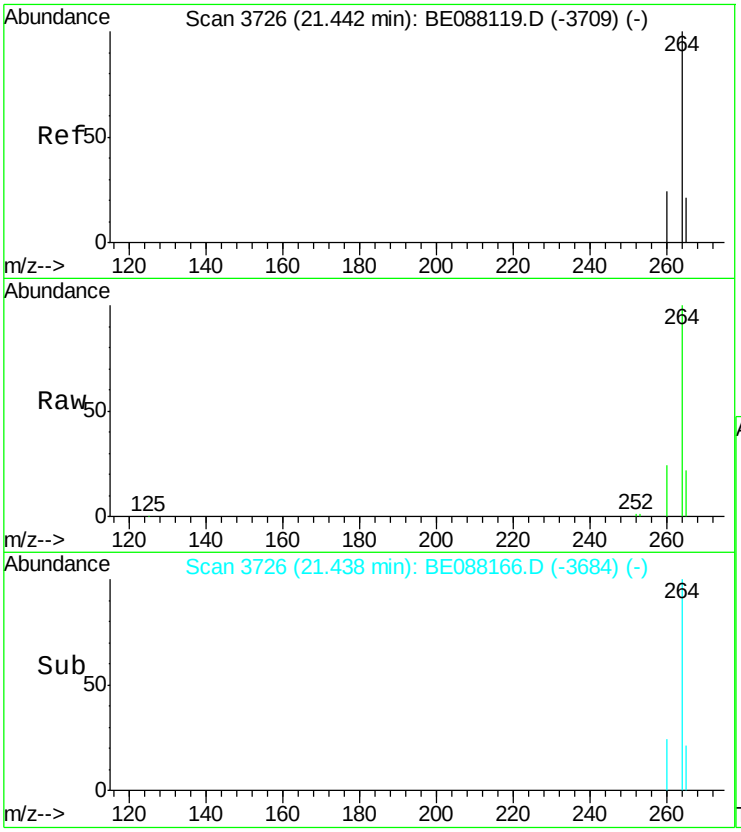




#21
Indeno(1,2,3-cd)pyrene
Concen: 0.64 ng
RT: 23.63 min Scan# 4163
Delta R.T. -0.00 min
Lab File: BE088166.D
Acq: 22 Oct 2014 5:47

Tgt Ion:276 Resp: 32385

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 26.4 | 18.5 | 27.7 |
| 277 | 25.3 | 14.6 | 21.8# |



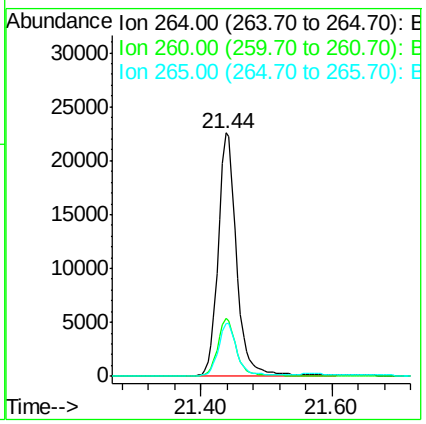


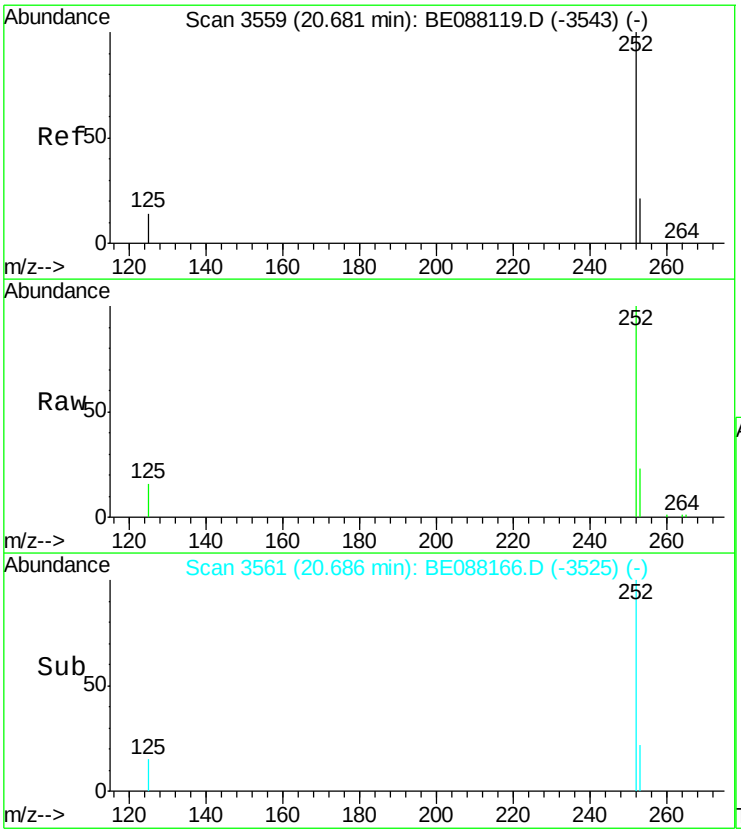

#22
Perylene-d12
Concen: 5.00 ng
RT: 21.44 min Scan# 3726
Delta R.T. -0.00 min
Lab File: BE088166.D
Acq: 22 Oct 2014 5:47

**Instrument :**
BNA_E
**ClientSampleId :**
YS19-SB04-1014DL

Tgt Ion:264 Resp: 43814

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 23.9 | 19.0 | 28.4 |
| 265 | 21.5 | 17.2 | 25.8 |

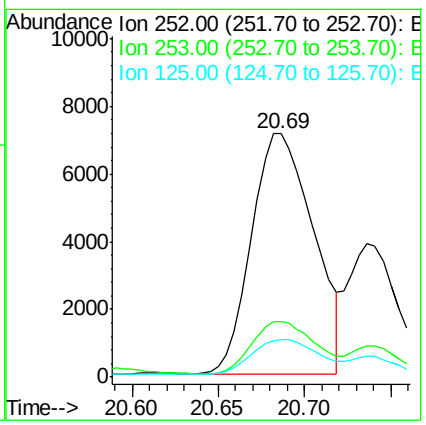


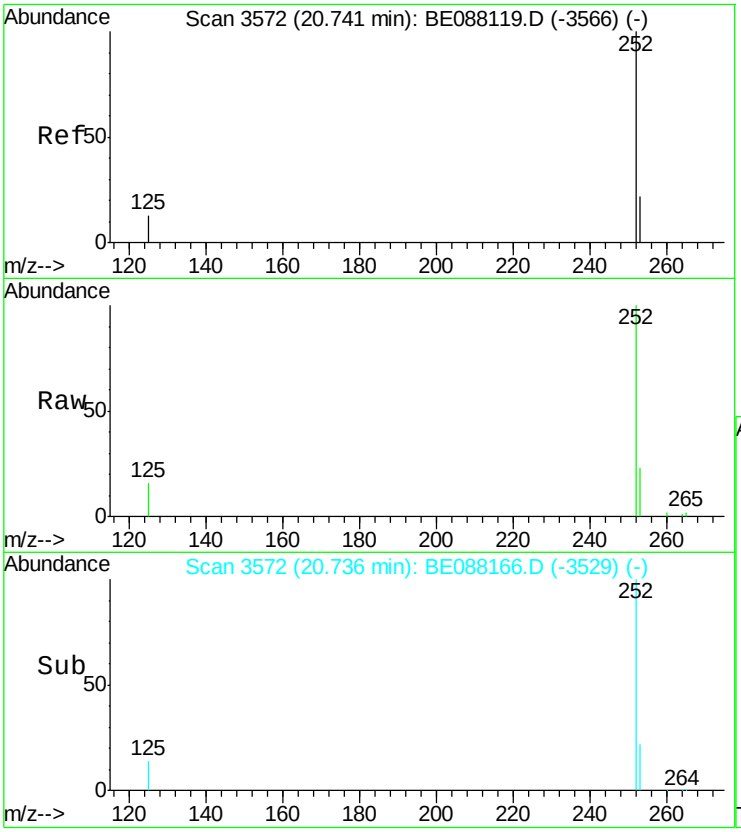




#23
Benzo(b)fluoranthene
Concen: 1.70 ng
RT: 20.69 min Scan# 3561
Delta R.T. 0.01 min
Lab File: BE088166.D
Acq: 22 Oct 2014 5:47

Tgt Ion:252 Resp: 17713

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.9 | 17.4 | 26.0 |
| 125 | 15.5 | 11.8 | 17.8 |



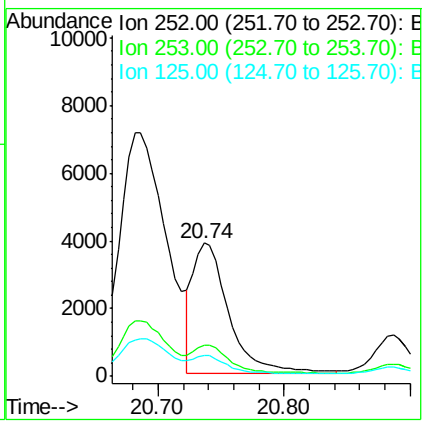


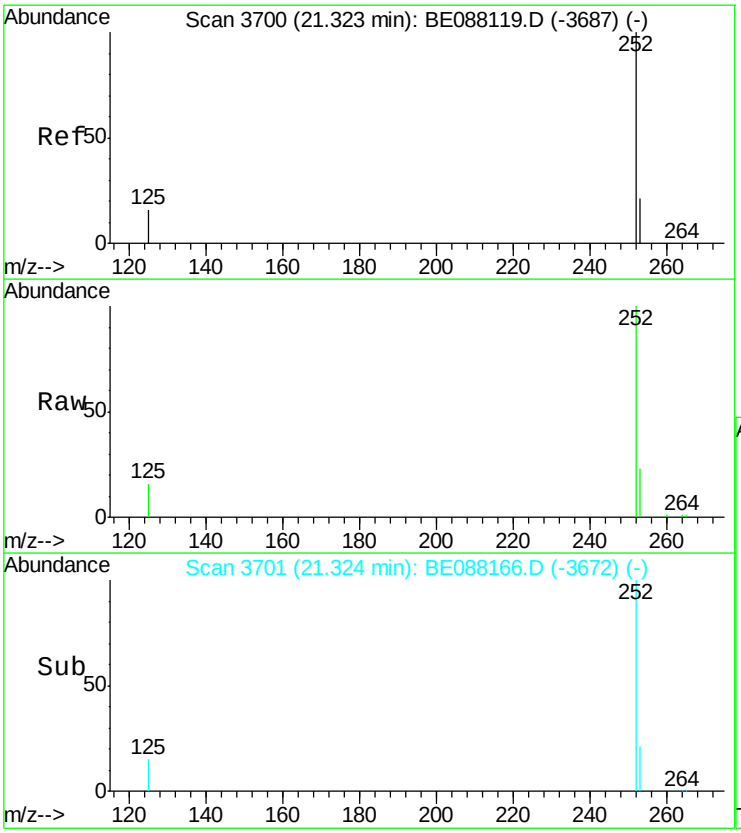

#24
Benzo(k)fluoranthene
Concen: 0.68 ng
RT: 20.74 min Scan# 3572
Delta R.T. -0.00 min
Lab File: BE088166.D
Acq: 22 Oct 2014 5:47

**Instrument :**
BNA_E
**ClientSampleId :**
YS19-SB04-1014DL

Tgt Ion:252 Resp: 7544

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 23.5 | 17.6 | 26.4 |
| 125 | 15.8 | 11.5 | 17.3 |

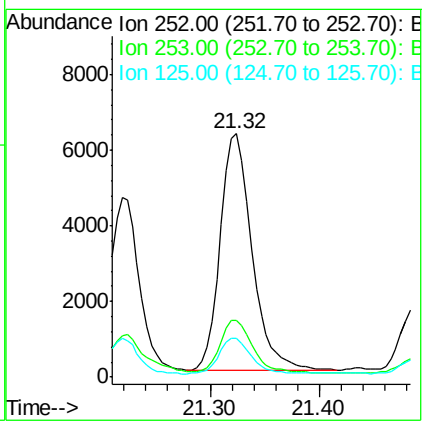


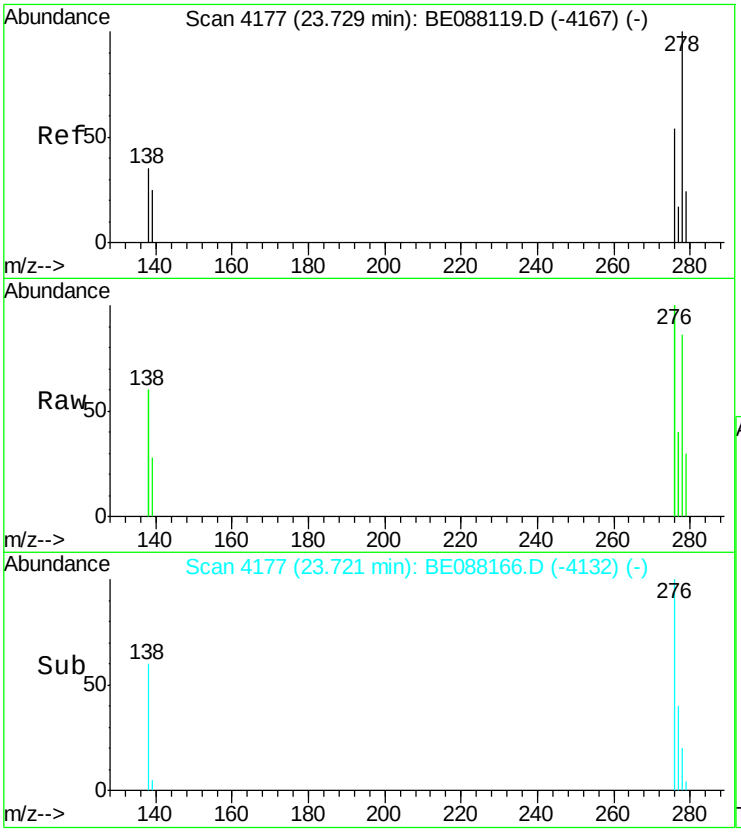




#25
Benzo(a)pyrene
Concen: 1.32 ng
RT: 21.32 min Scan# 3701
Delta R.T. 0.00 min
Lab File: BE088166.D
Acq: 22 Oct 2014 5:47

Tgt Ion:252 Resp: 12673

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 23.4 | 17.5 | 26.3 |
| 125 | 16.1 | 13.0 | 19.6 |



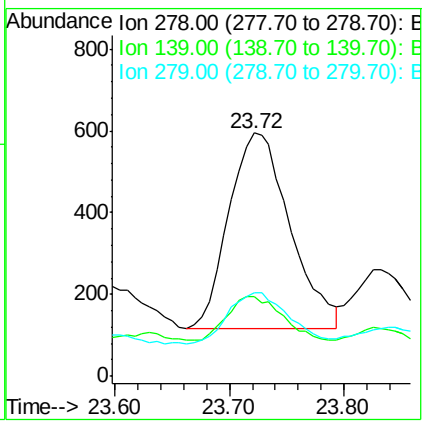


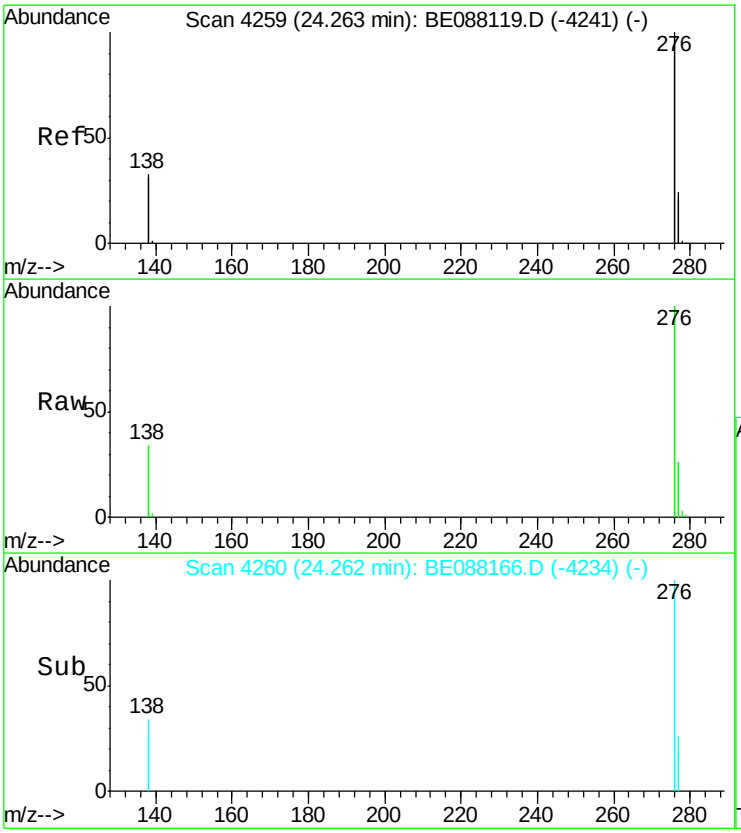

#26
Dibenzo(a,h)anthracene
Concen: 0.19 ng
RT: 23.72 min Scan# 4177
Delta R.T. -0.01 min
Lab File: BE088166.D
Acq: 22 Oct 2014 5:47

**Instrument :**
BNA_E
**ClientSampleId :**
YS19-SB04-1014DL

Tgt Ion:278 Resp: 1781

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 32.8 | 20.9 | 31.3# |
| 279 | 34.3 | 19.8 | 29.8# |




#27
Benzo(g,h,i)perylene
Concen: 0.74 ng
RT: 24.26 min Scan# 4260
Delta R.T. -0.00 min
Lab File: BE088166.D
Acq: 22 Oct 2014 5:47

Tgt Ion:276 Resp: 30885

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 25.5 | 19.2 | 28.8 |
| 138 | 33.8 | 26.6 | 40.0 |