Quantitation Report (QT/LSC Reviewed)

Data Path : Z:\HPCHEM1\BNA G\DATA\BG060916\
Data File : BG022271.D
Acq On : 9 Jun 2016 16:32
Operator : UM/SJ
Sample : H3402-04 2X
Misc :
ALS Vial : 16 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** SS-40

Quant Time: Jun 09 17:17:25 2016
Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG060616.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jun 06 16:12:45 2016
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 8.12 | 152 | 57702 | 20.00 | ng | | 0.00 |
| 21) Naphthalene-d8 | 10.94 | 136 | 282616 | 20.00 | ng | | 0.00 |
| 38) Acenaphthene-d10 | 14.75 | 164 | 154031 | 20.00 | ng | | 0.00 |
| 63) Phenanthrene-d10 | 17.49 | 188 | 299595 | 20.00 | ng | | 0.00 |
| 75) Chrysene-d12 | 21.77 | 240 | 249182 | 20.00 | ng | | 0.00 |
| 86) Perylene-d12 | 25.07 | 264 | 225408 | 20.00 | ng | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 5) 2-Fluorophenol | 5.67 | 112 | 118722 | 39.78 | ng | | 0.00 |
| 7) Phenol-d6 | 7.28 | 99 | 174728 | 37.24 | ng | | 0.00 |
| 23) Nitrobenzene-d5 | 9.29 | 82 | 98379 | 24.27 | ng | | 0.00 |
| 41) 2,4,6-Tribromophenol | 16.23 | 330 | 56483 | 32.45 | ng | | 0.00 |
| 44) 2-Fluorobiphenyl | 13.37 | 172 | 266259 | 26.34 | ng | | 0.00 |
| 78) Terphenyl-d14 | 20.08 | 244 | 263358 | 25.09 | ng | | 0.00 |
| **Target Compounds** | | | | | | | Qvalue |
| 51) Acenaphthene | 14.81 | 154 | 25129 | 2.69 | ng | | 90 |
| 55) 4-Nitrophenol | 15.15 | 139 | 6897 | 3.25 | ng | # | 5 |
| 57) Fluorene | 15.79 | 166 | 30208 | 2.41 | ng | | 98 |
| 70) Phenanthrene | 17.53 | 178 | 367918 | 22.61 | ng | | 99 |
| 71) Anthracene | 17.63 | 178 | 93993 | 5.82 | ng | | 97 |
| 72) Carbazole | 17.90 | 167 | 36619 | 2.40 | ng | | 100 |
| 74) Fluoranthene | 19.54 | 202 | 537047 | 28.71 | ng | | 97 |
| 77) Pyrene | 19.90 | 202 | 473736 | 30.58 | ng | | 99 |
| 80) Benzo(a)anthracene | 21.75 | 228 | 238959 | 17.10 | ng | | 99 |
| 82) Chrysene | 21.82 | 228 | 205240 | 15.09 | ng | | 97 |
| 85) Indeno(1,2,3-cd)pyrene | 28.85 | 276 | 83186m | 5.45 | ng | | |
| 87) Benzo(b)fluoranthene | 24.03 | 252 | 228682 | 17.40 | ng | # | 94 |
| 88) Benzo(k)fluoranthene | 24.08 | 252 | 108045m | 8.35 | ng | | |
| 89) Benzo(a)pyrene | 24.91 | 252 | 157496 | 12.53 | ng | # | 95 |
| 91) Benzo(g,h,i)perylene | 30.04 | 276 | 70317m | 5.71 | ng | | |

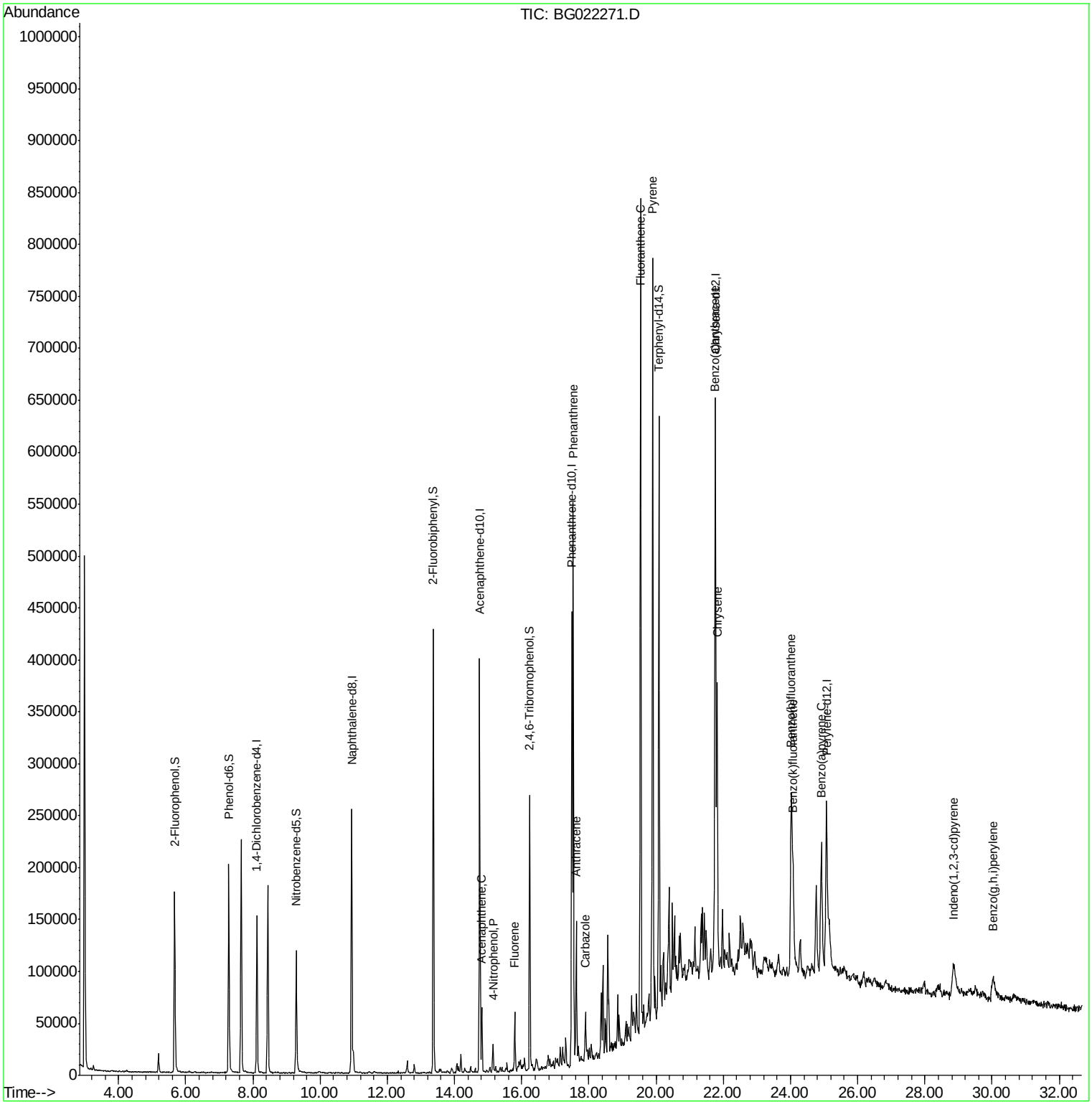
(#) = qualifier out of range (m) = manual integration (+) = signals summed

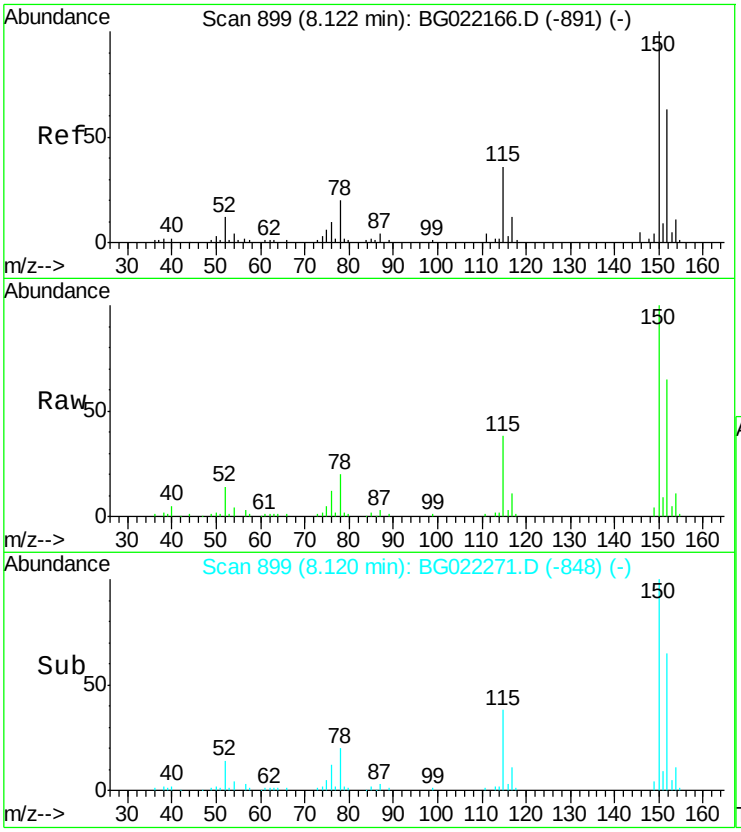
Quantitation Report (QT/LSC Reviewed)

Data Path : Z:\HPCHEM1\BNA G\DATA\BG060916\
Data File : BG022271.D
Acq On : 9 Jun 2016 16:32
Operator : UM/SJ
Sample : H3402-04 2X
Misc :
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
BNA_G
**ClientSampleId :**
SS-40

Quant Time: Jun 09 17:17:25 2016
Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG060616.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jun 06 16:12:45 2016
Response via : Initial Calibration



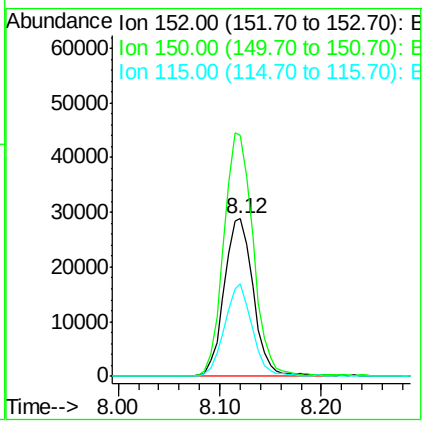


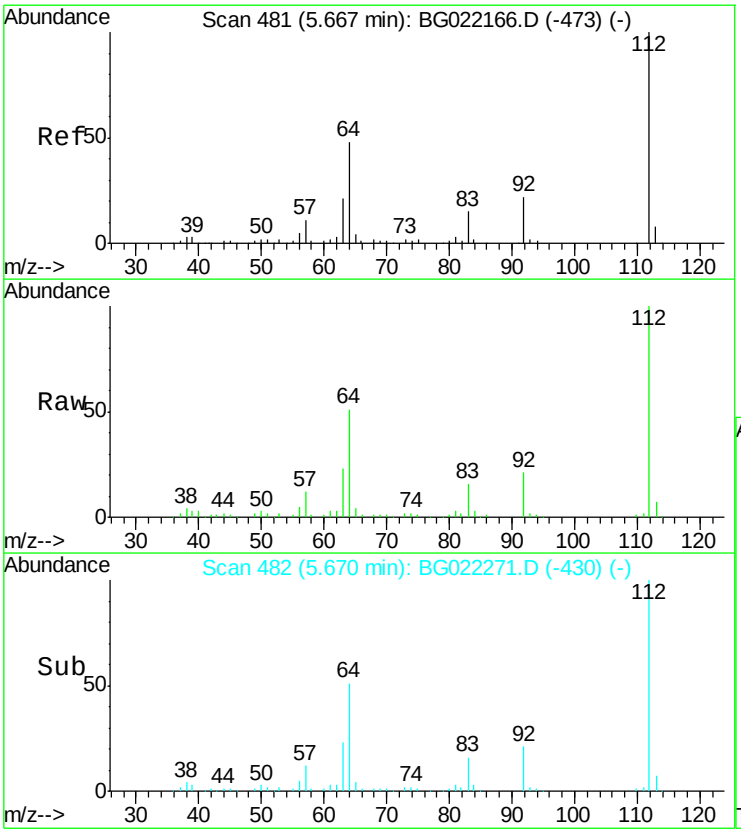

#1
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 8.12 min Scan# 899
Delta R.T. -0.00 min
Lab File: BG022271.D
Acq: 9 Jun 2016 16:32

**Instrument :**
BNA_G
**ClientSampleId :**
SS-40

Tgt Ion:152 Resp: 57702

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 153.0 | 130.1 | 195.1 |
| 115 | 58.9 | 62.2 | 93.2# |

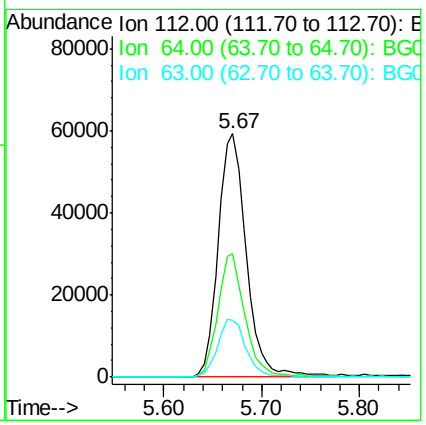


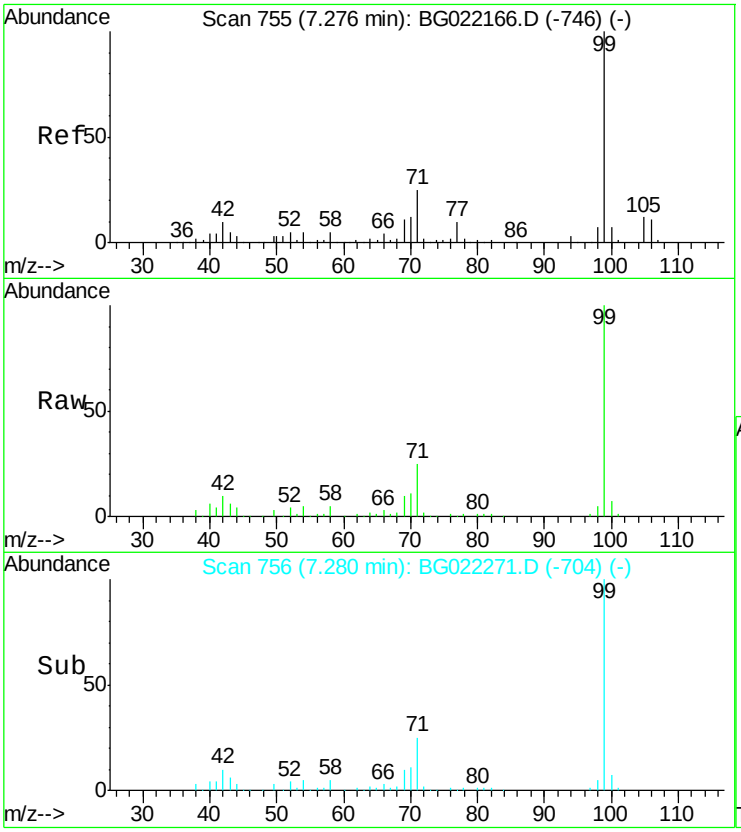




#5
2-Fluorophenol
Concen: 39.78 ng
RT: 5.67 min Scan# 482
Delta R.T. 0.00 min
Lab File: BG022271.D
Acq: 9 Jun 2016 16:32

Tgt Ion:112 Resp: 118722

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 50.7 | 51.1 | 76.7# |
| 63 | 23.2 | 24.6 | 37.0# |



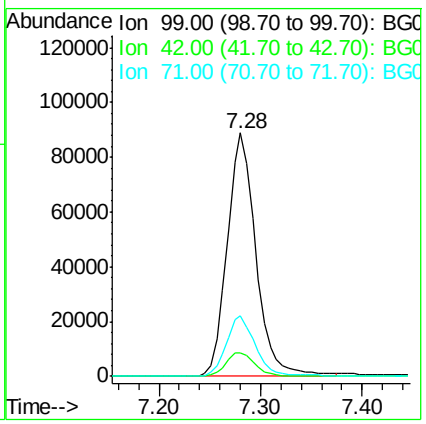


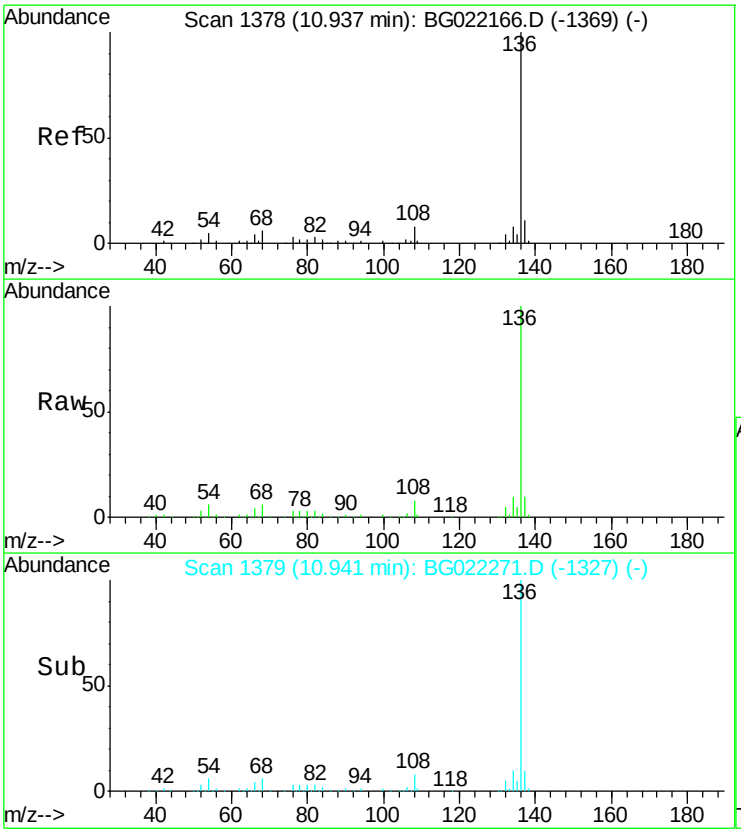

#7
Phenol-d6
Concen: 37.24 ng
RT: 7.28 min Scan# 756
Delta R.T. 0.00 min
Lab File: BG022271.D
Acq: 9 Jun 2016 16:32

**Instrument :**
BNA_G
**ClientSampleId :**
SS-40

Tgt Ion: 99 Resp: 174728

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 9.6 | 16.4 | 24.6# |
| 71 | 25.1 | 25.0 | 37.4 |

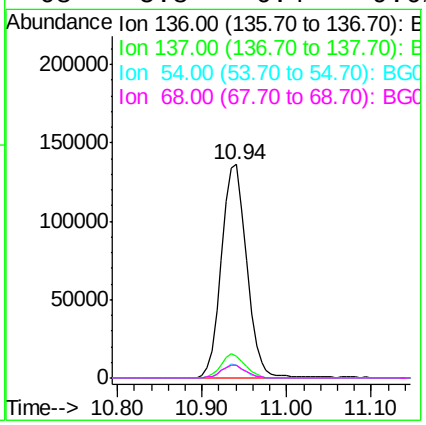


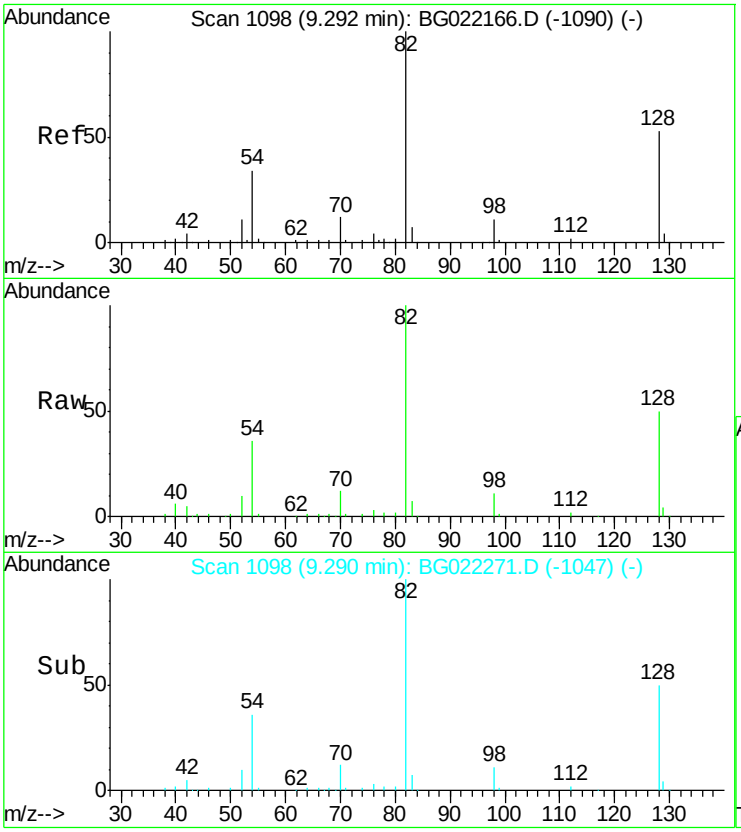




#21
Naphthalene-d8
Concen: 20.00 ng
RT: 10.94 min Scan# 1379
Delta R.T. 0.00 min
Lab File: BG022271.D
Acq: 9 Jun 2016 16:32

Tgt Ion:136 Resp: 282616

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 10.5 | 9.0 | 13.4 |
| 54 | 6.1 | 9.6 | 14.4# |
| 68 | 5.8 | 6.4 | 9.6# |



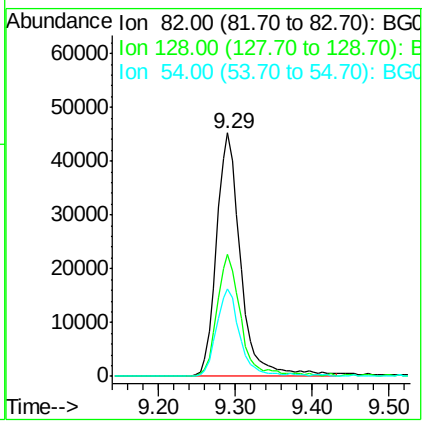


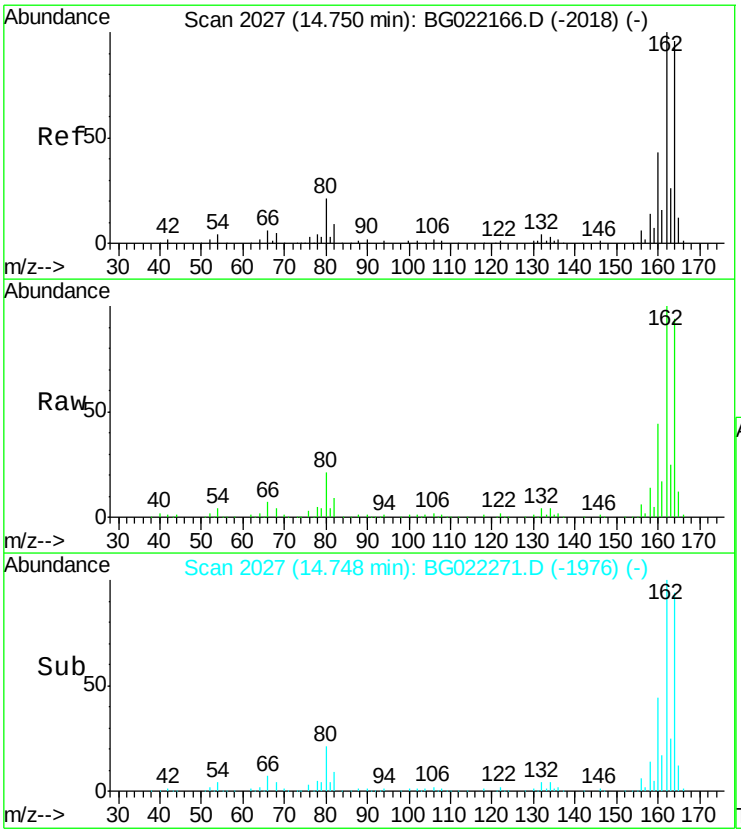

#23
Nitrobenzene-d5
Concen: 24.27 ng
RT: 9.29 min Scan# 1098
Delta R.T. -0.00 min
Lab File: BG022271.D
Acq: 9 Jun 2016 16:32

**Instrument :**
BNA_G
**ClientSampleId :**
SS-40

Tgt Ion: 82 Resp: 98379

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 50.2 | 33.4 | 50.0# |
| 54 | 35.9 | 46.1 | 69.1# |

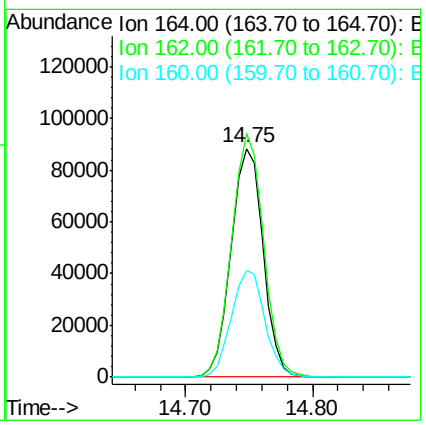


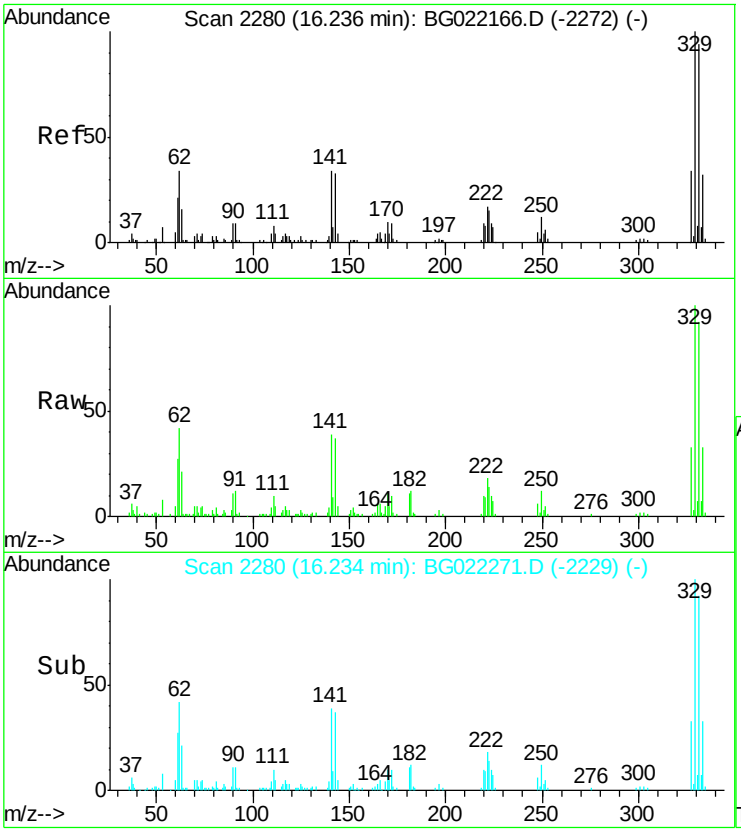




#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 14.75 min Scan# 2027
Delta R.T. -0.00 min
Lab File: BG022271.D
Acq: 9 Jun 2016 16:32

Tgt Ion:164 Resp: 154031

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 106.5 | 78.0 | 117.0 |
| 160 | 46.9 | 32.9 | 49.3 |



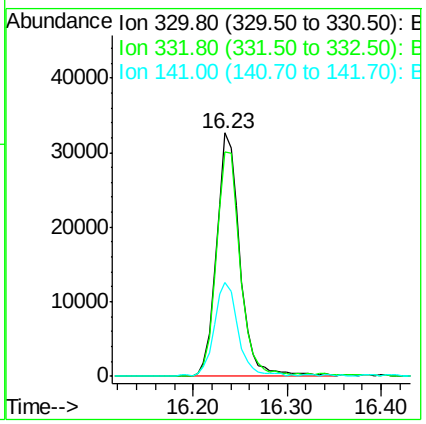


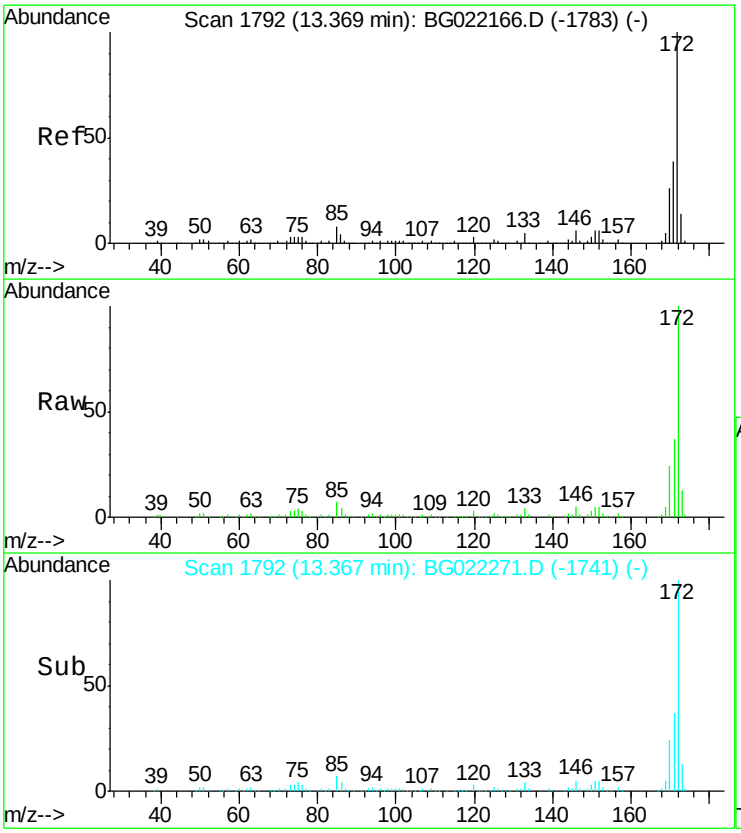

#41
2,4,6-Tribromophenol
Concen: 32.45 ng
RT: 16.23 min Scan# 2280
Delta R.T. -0.00 min
Lab File: BG022271.D
Acq: 9 Jun 2016 16:32

**Instrument :**
BNA_G
**ClientSampleId :**
SS-40

Tgt Ion:330 Resp: 56483

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 95.2 | 78.0 | 117.0 |
| 141 | 39.5 | 33.8 | 50.8 |

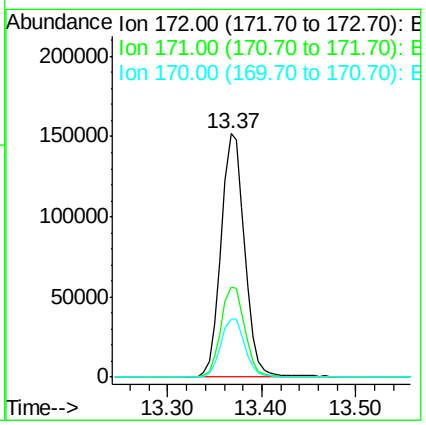


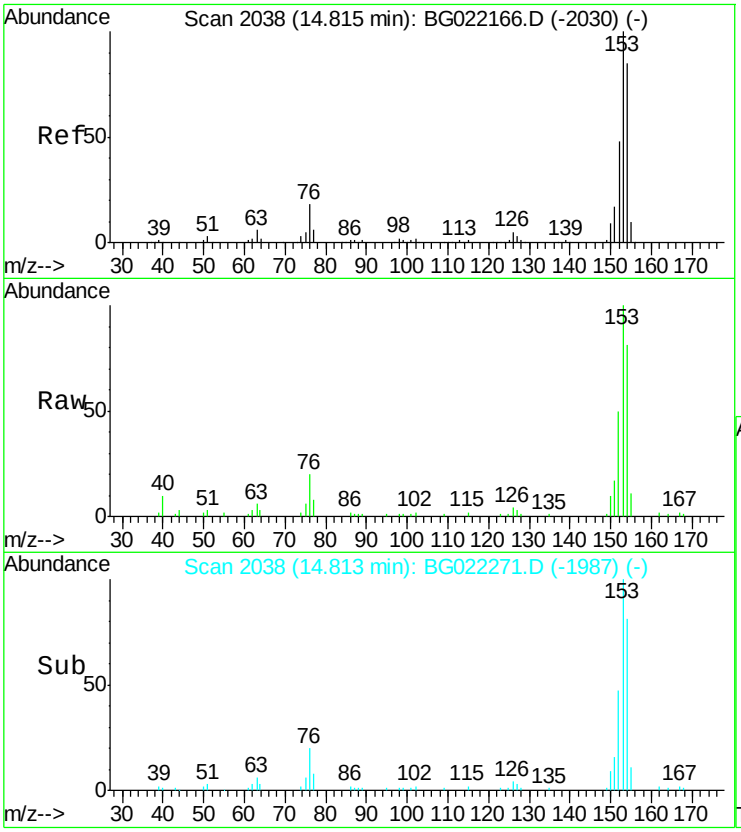




#44
2-Fluorobiphenyl
Concen: 26.34 ng
RT: 13.37 min Scan# 1792
Delta R.T. -0.00 min
Lab File: BG022271.D
Acq: 9 Jun 2016 16:32

Tgt Ion:172 Resp: 266259

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 37.2 | 27.8 | 41.6 |
| 170 | 24.0 | 19.6 | 29.4 |



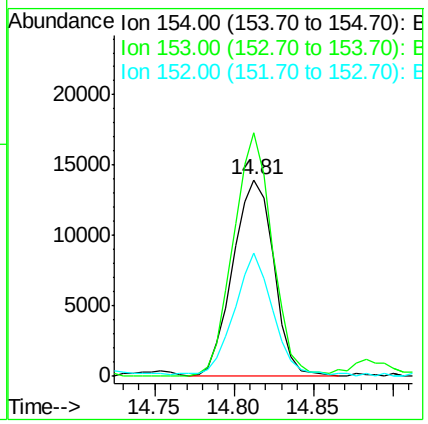


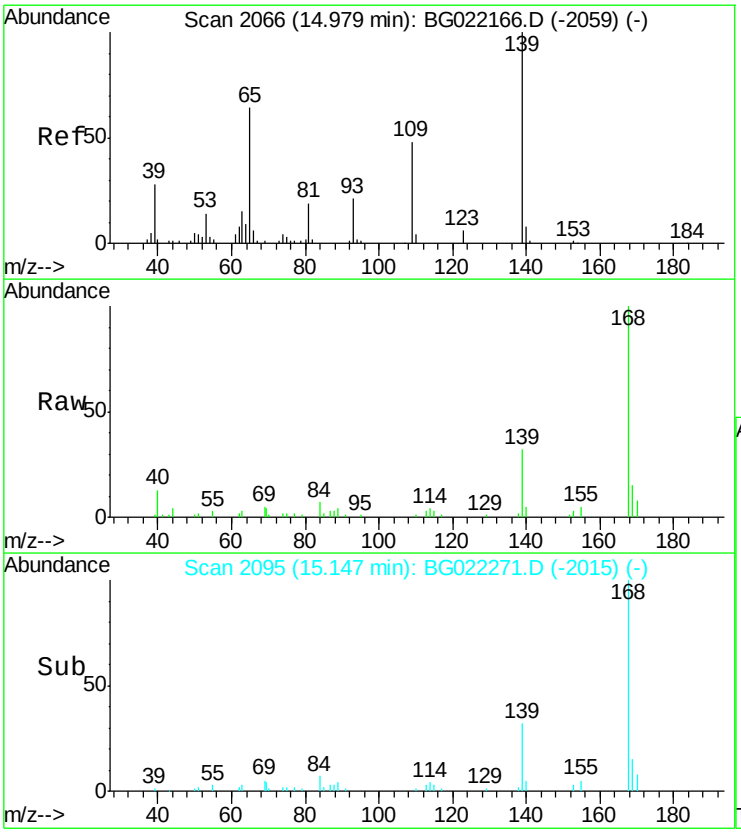

#51
Acenaphthene
Concen: 2.69 ng
RT: 14.81 min Scan# 2038
Delta R.T. -0.00 min
Lab File: BG022271.D
Acq: 9 Jun 2016 16:32

**Instrument :**
BNA_G
**ClientSampleId :**
SS-40

Tgt Ion:154 Resp: 25129

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 123.7 | 91.9 | 137.9 |
| 152 | 62.3 | 42.0 | 63.0 |

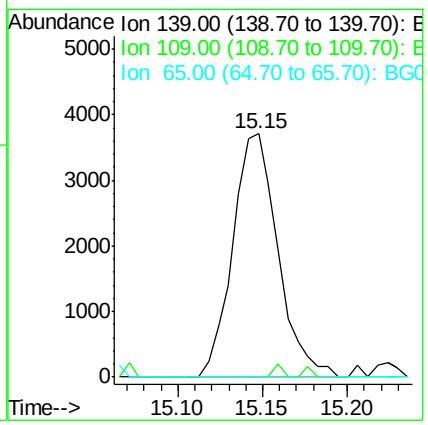


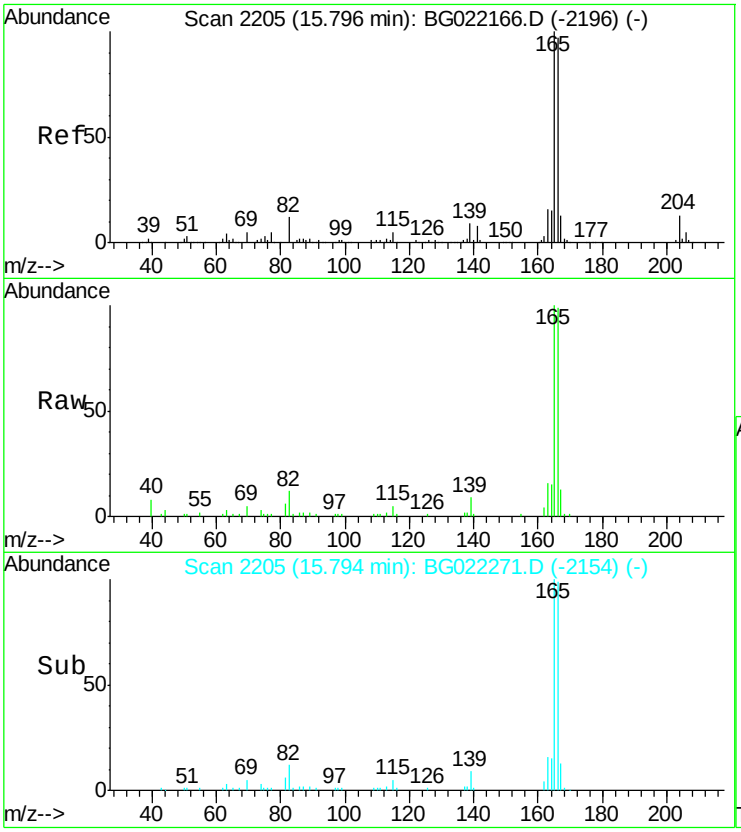




#55
4-Nitrophenol
Concen: 3.25 ng
RT: 15.15 min Scan# 2095
Delta R.T. 0.17 min
Lab File: BG022271.D
Acq: 9 Jun 2016 16:32

Tgt Ion:139 Resp: 6897

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 139 | 100 | | |
| 109 | 0.0 | 49.2 | 89.2# |
| 65 | 0.0 | 83.2 | 123.2# |



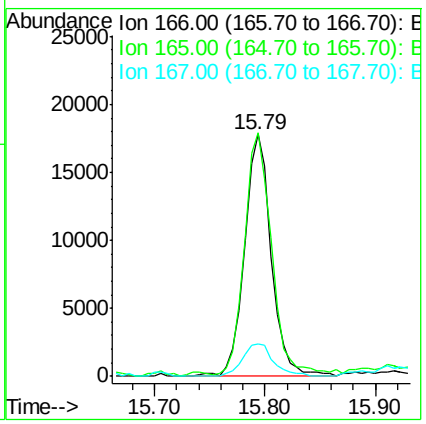


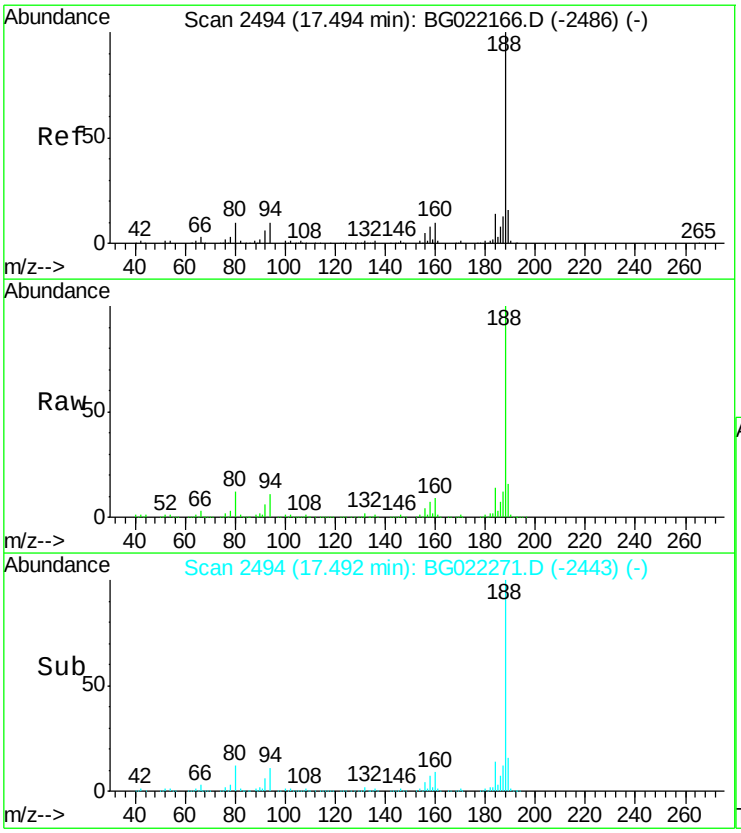

#57
Fluorene
Concen: 2.41 ng
RT: 15.79 min Scan# 2205
Delta R.T. -0.00 min
Lab File: BG022271.D
Acq: 9 Jun 2016 16:32

**Instrument :**
BNA_G
**ClientSampleId :**
SS-40

Tgt Ion:166 Resp: 30208

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 100.6 | 79.0 | 118.4 |
| 167 | 13.1 | 10.7 | 16.1 |

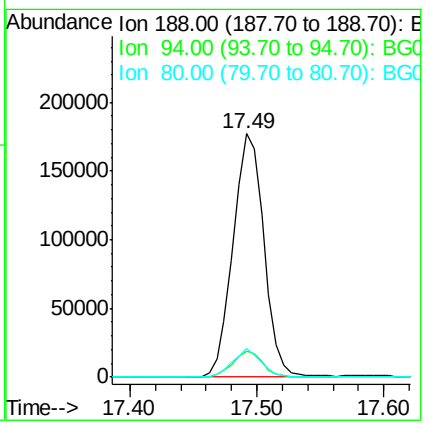


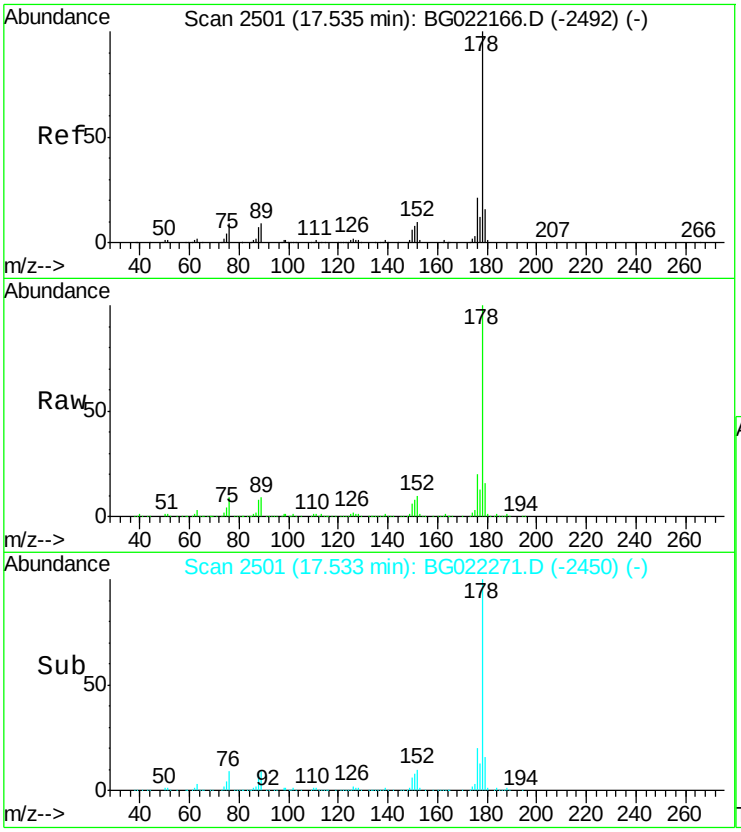




#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 17.49 min Scan# 2494
Delta R.T. -0.00 min
Lab File: BG022271.D
Acq: 9 Jun 2016 16:32

Tgt Ion:188 Resp: 299595

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 10.5 | 7.5 | 11.3 |
| 80 | 11.5 | 8.6 | 13.0 |



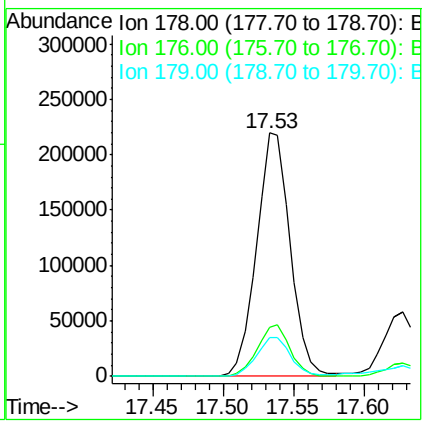


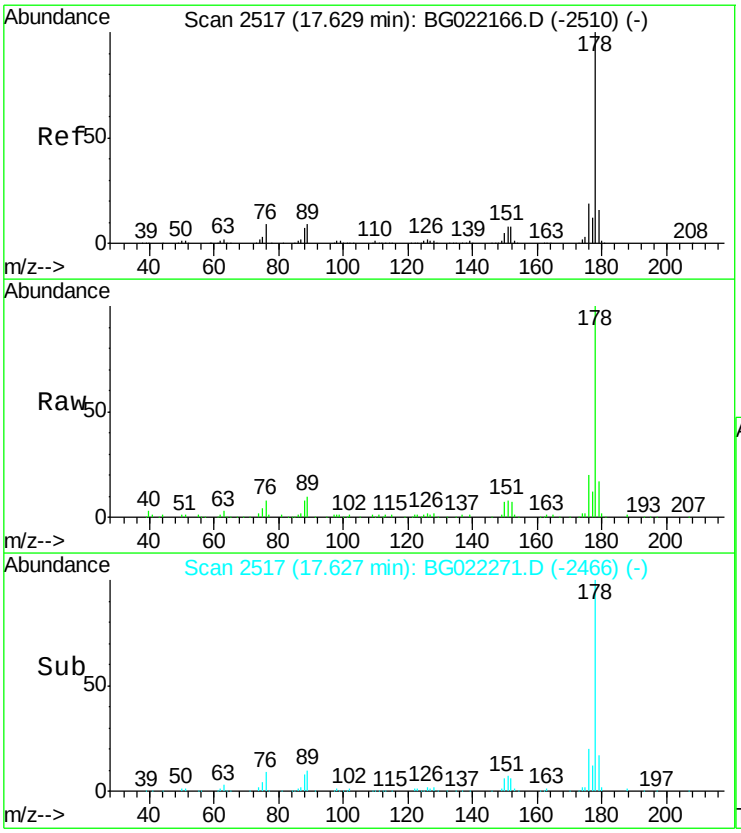

#70
Phenanthrene
Concen: 22.61 ng
RT: 17.53 min Scan# 2501
Delta R.T. -0.00 min
Lab File: BG022271.D
Acq: 9 Jun 2016 16:32

**Instrument :**
BNA_G
**ClientSampleId :**
SS-40

Tgt Ion:178 Resp: 367918

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 20.4 | 16.2 | 24.4 |
| 179 | 15.9 | 12.0 | 18.0 |

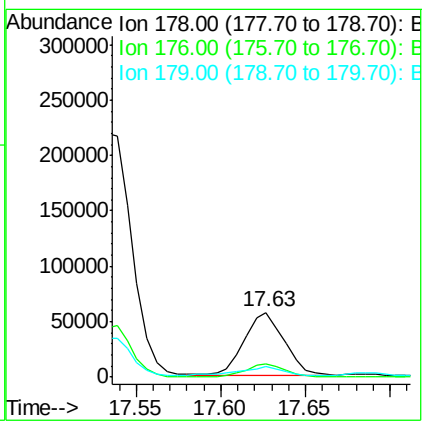


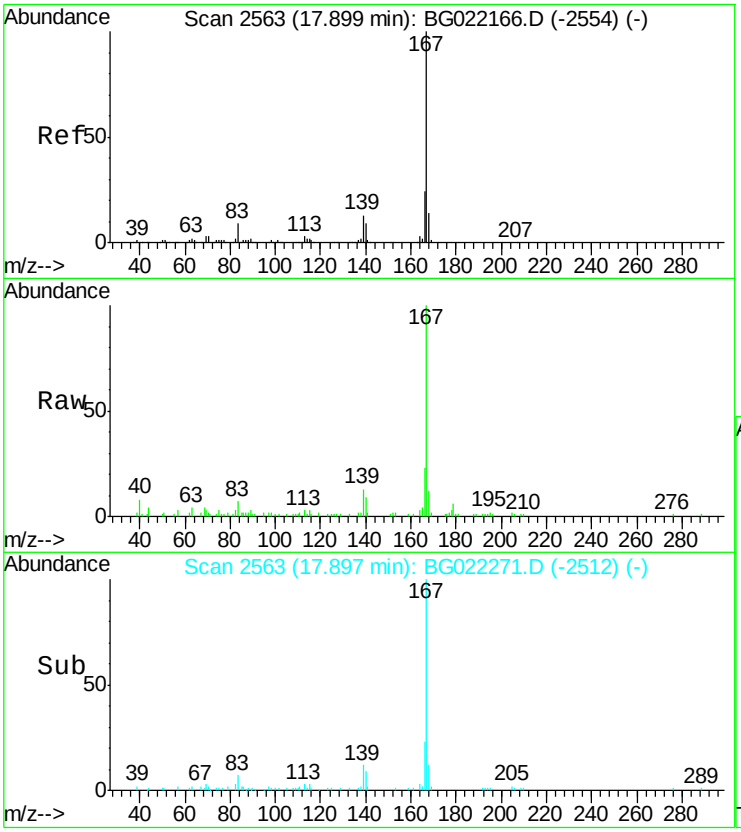




#71
Anthracene
Concen: 5.82 ng
RT: 17.63 min Scan# 2517
Delta R.T. -0.00 min
Lab File: BG022271.D
Acq: 9 Jun 2016 16:32

Tgt Ion:178 Resp: 93993

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.7 | 15.0 | 22.4 |
| 179 | 16.7 | 12.2 | 18.4 |



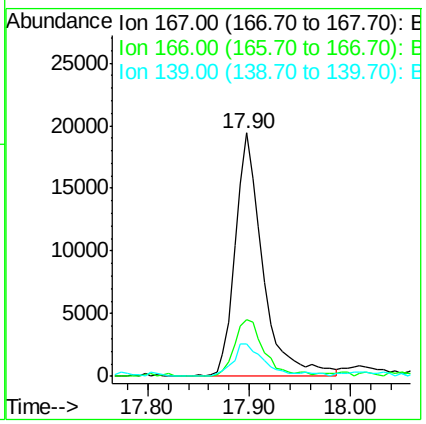


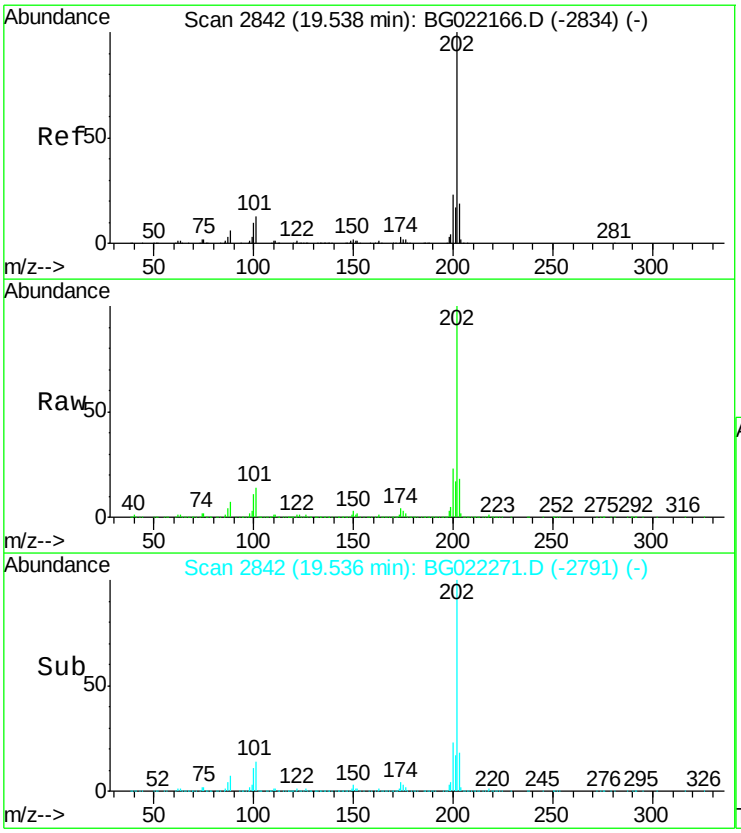

#72
Carbazole
Concen: 2.40 ng
RT: 17.90 min Scan# 2563
Delta R.T. -0.00 min
Lab File: BG022271.D
Acq: 9 Jun 2016 16:32

**Instrument :**
BNA_G
**ClientSampleId :**
SS-40

Tgt Ion:167 Resp: 36619

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 23.2 | 18.6 | 27.8 |
| 139 | 13.3 | 10.6 | 15.8 |

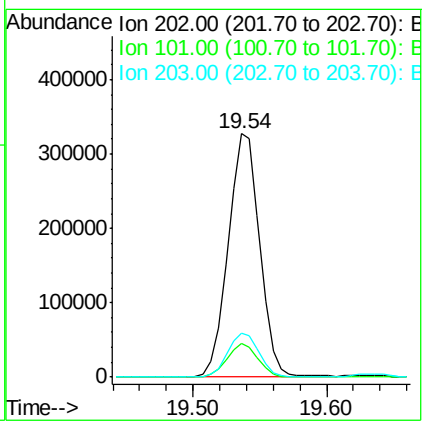


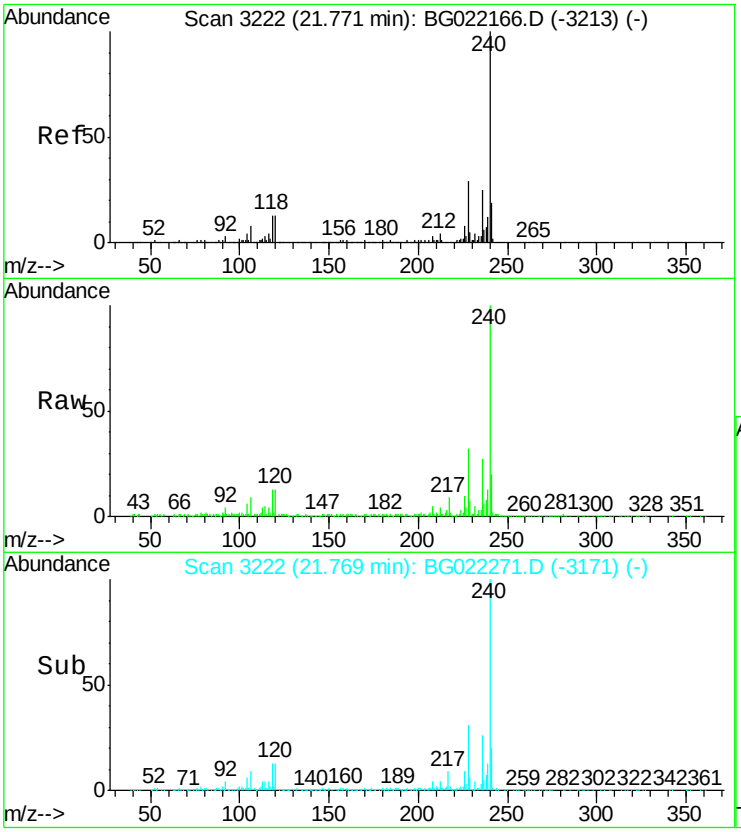




#74
Fluoranthene
Concen: 28.71 ng
RT: 19.54 min Scan# 2842
Delta R.T. -0.00 min
Lab File: BG022271.D
Acq: 9 Jun 2016 16:32

Tgt Ion:202 Resp: 537047

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 14.0 | 0.0 | 31.0 |
| 203 | 18.0 | 0.0 | 37.9 |



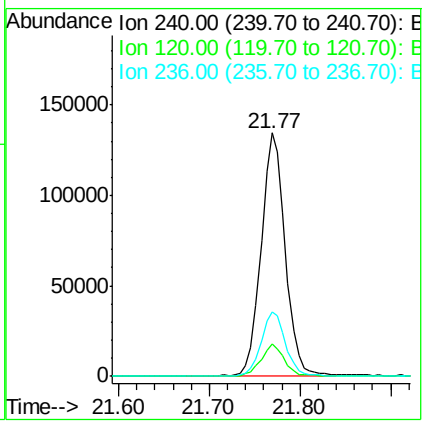


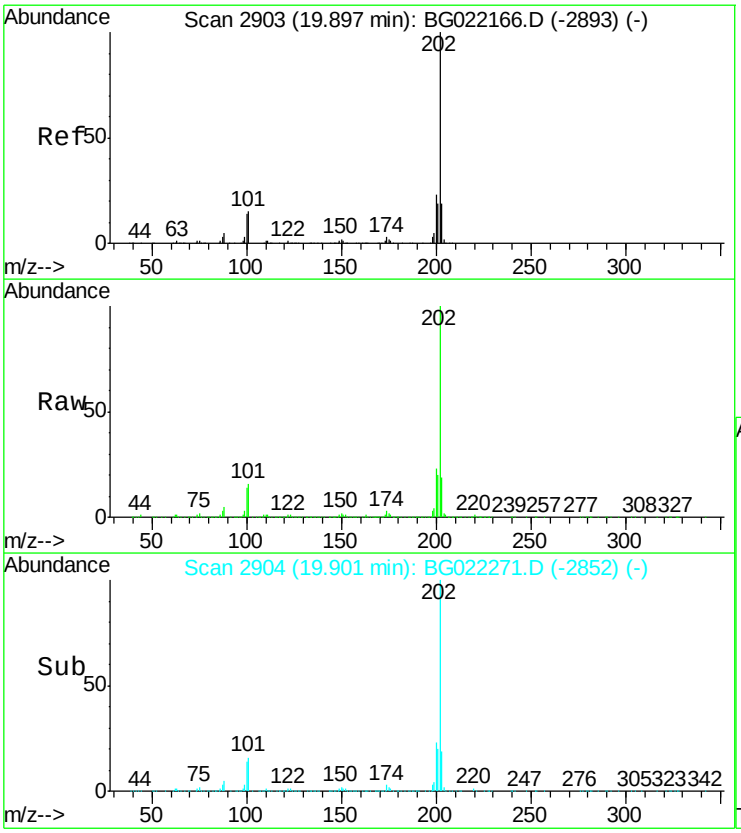

#75
Chrysene-d12
Concen: 20.00 ng
RT: 21.77 min Scan# 3222
Delta R.T. -0.00 min
Lab File: BG022271.D
Acq: 9 Jun 2016 16:32

**Instrument :**
BNA_G
**ClientSampleId :**
SS-40

Tgt Ion:240 Resp: 249182

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 13.5 | 8.4 | 12.6# |
| 236 | 26.6 | 19.6 | 29.4 |

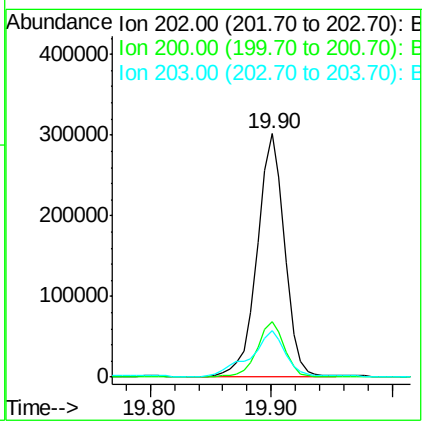


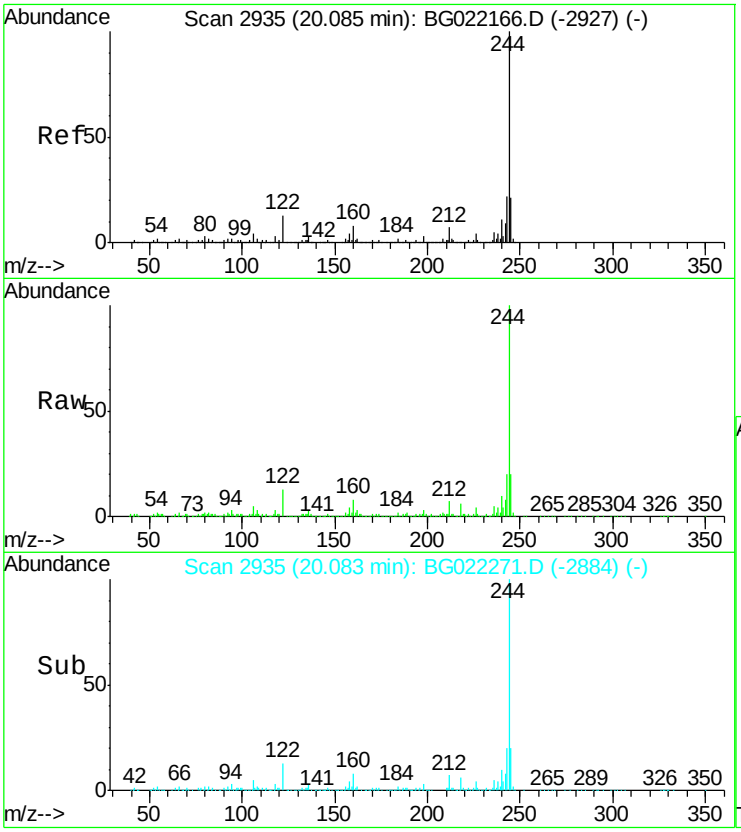




#77
Pyrene
Concen: 30.58 ng
RT: 19.90 min Scan# 2904
Delta R.T. 0.00 min
Lab File: BG022271.D
Acq: 9 Jun 2016 16:32

Tgt Ion:202 Resp: 473736

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 22.6 | 18.2 | 27.2 |
| 203 | 19.1 | 15.0 | 22.4 |



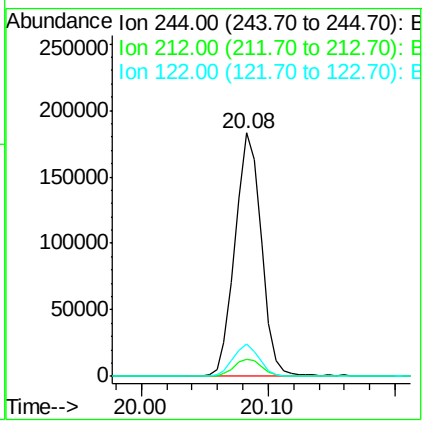


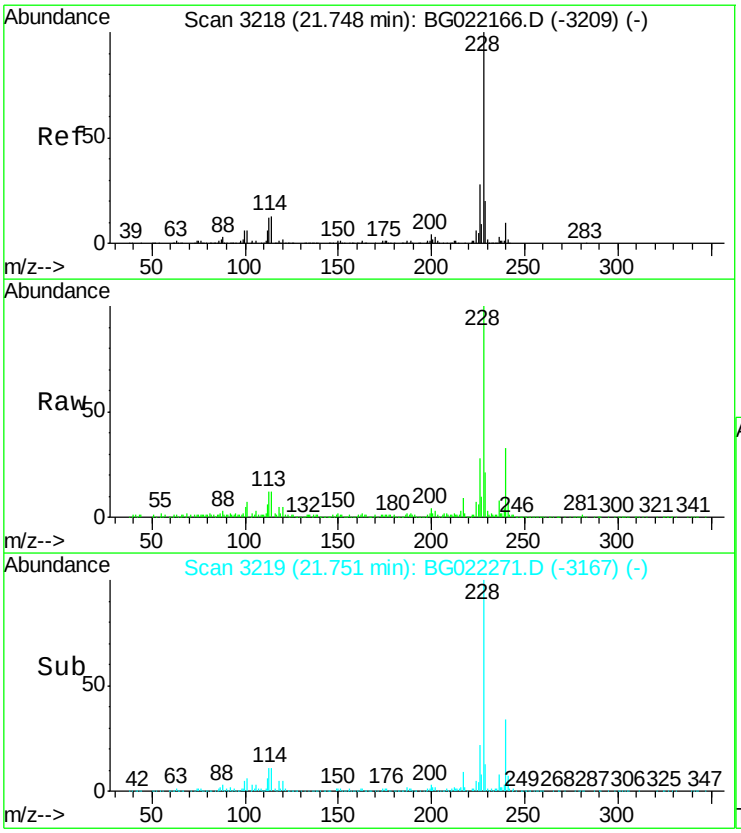

#78
Terphenyl-d14
Concen: 25.09 ng
RT: 20.08 min Scan# 2935
Delta R.T. -0.00 min
Lab File: BG022271.D
Acq: 9 Jun 2016 16:32

**Instrument :**
BNA_G
**ClientSampleId :**
SS-40

Tgt Ion:244 Resp: 263358

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 6.9 | 6.5 | 9.7 |
| 122 | 13.1 | 8.6 | 12.8# |

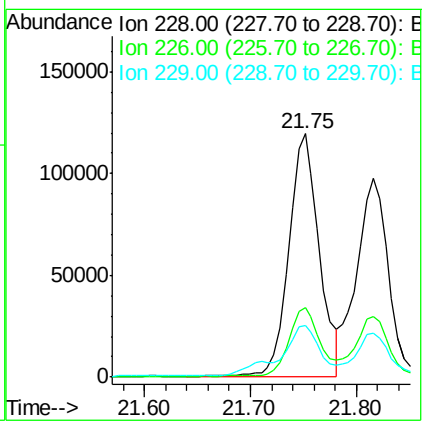


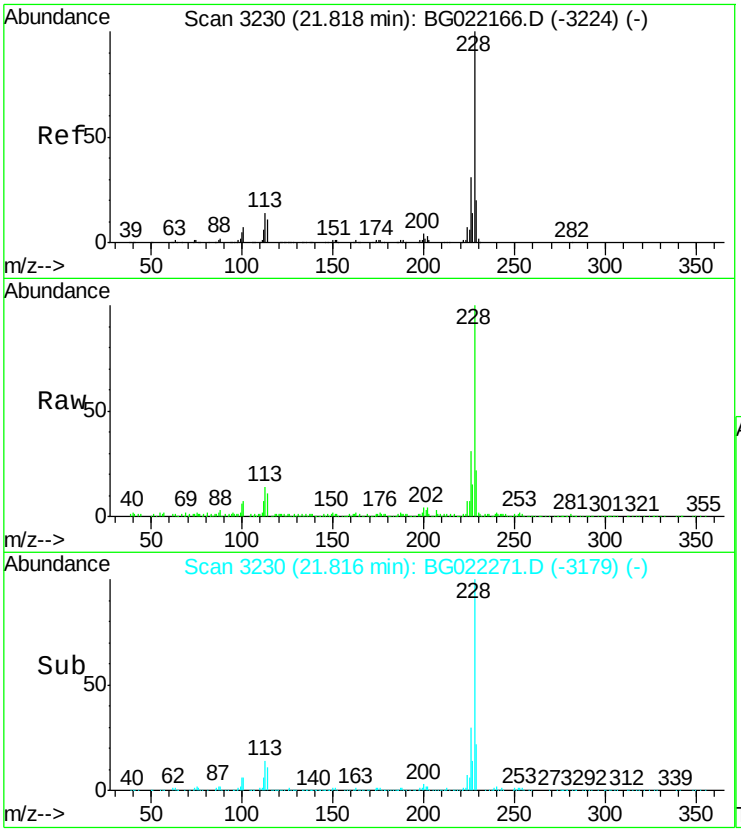




#80
Benzo(a)anthracene
Concen: 17.10 ng
RT: 21.75 min Scan# 3219
Delta R.T. 0.00 min
Lab File: BG022271.D
Acq: 9 Jun 2016 16:32

Tgt Ion:228 Resp: 238959

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 28.3 | 22.6 | 34.0 |
| 229 | 21.1 | 16.1 | 24.1 |



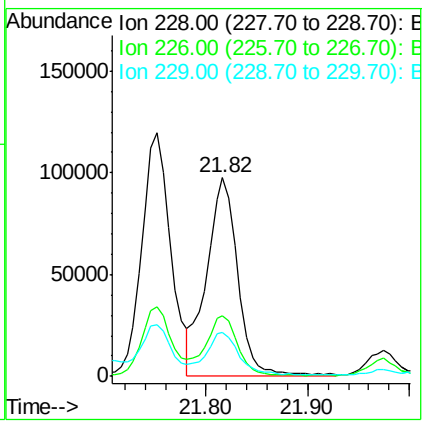


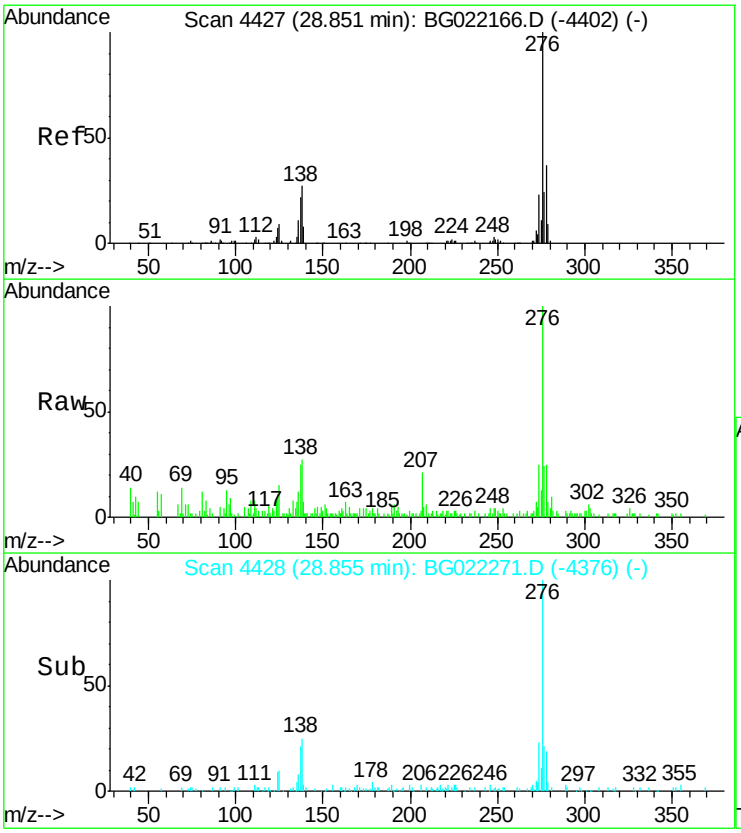

#82
Chrysene
Concen: 15.09 ng
RT: 21.82 min Scan# 3230
Delta R.T. -0.00 min
Lab File: BG022271.D
Acq: 9 Jun 2016 16:32

**Instrument :**
BNA_G
**ClientSampleId :**
SS-40

Tgt Ion:228 Resp: 205240

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.7 | 25.4 | 38.0 |
| 229 | 22.4 | 15.9 | 23.9 |

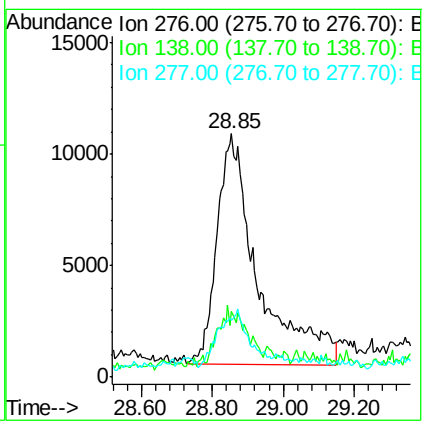


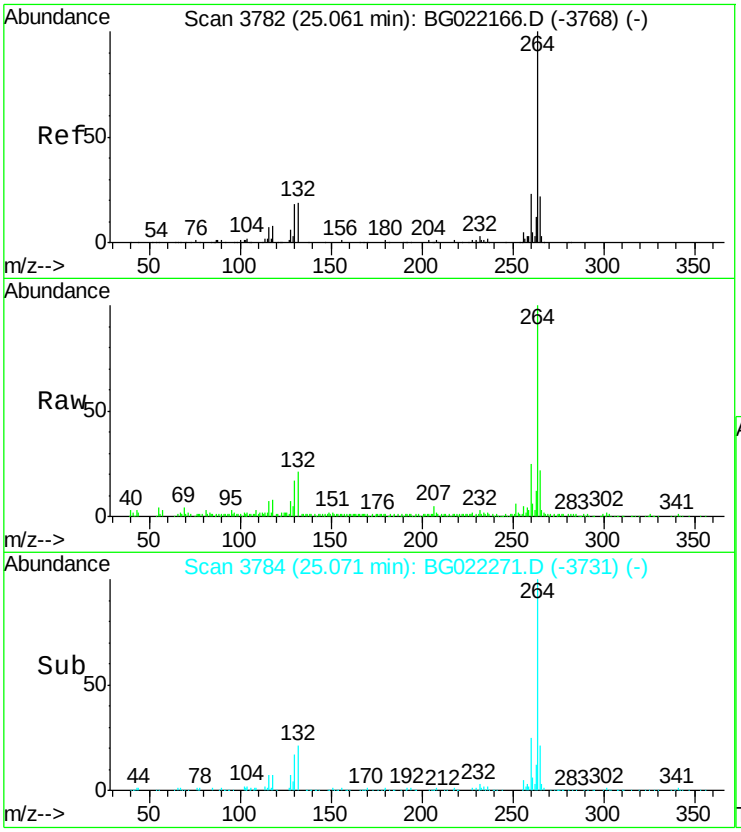




#85
Indeno(1,2,3-cd)pyrene
Concen: 5.45 ng m
RT: 28.85 min Scan# 4428
Delta R.T. 0.00 min
Lab File: BG022271.D
Acq: 9 Jun 2016 16:32

Tgt Ion:276 Resp: 83186

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 6.7 | 14.0 | 21.0# |
| 277 | 0.0 | 20.6 | 30.8# |



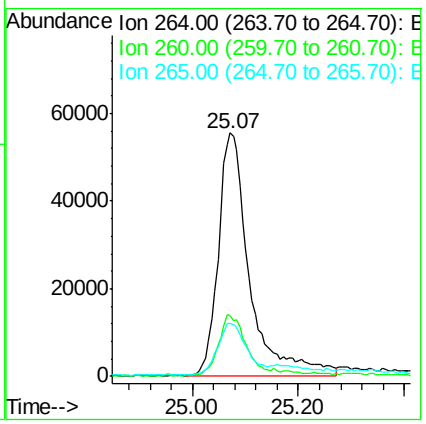


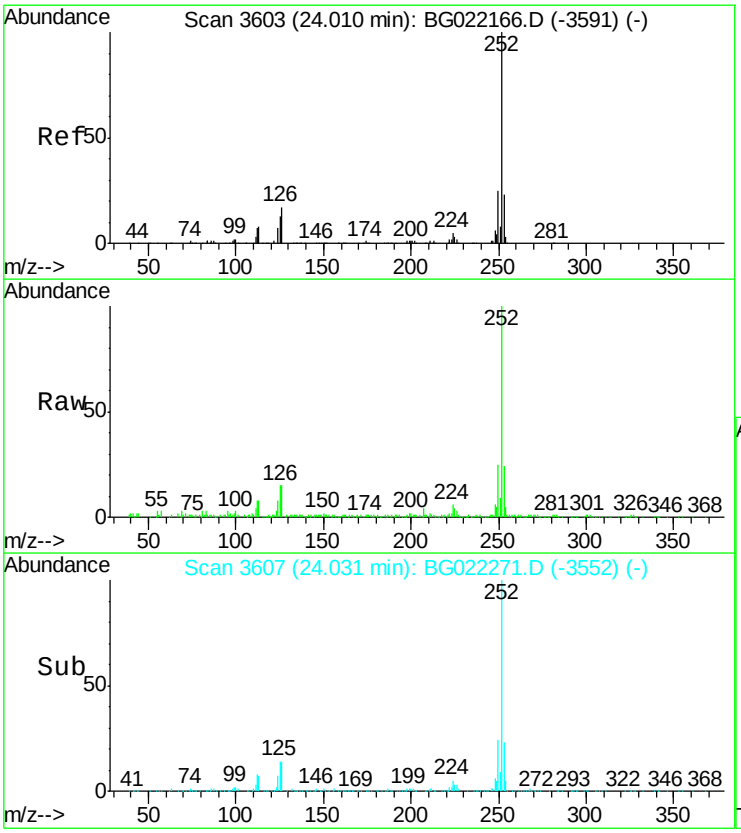

#86
Perylene-d12
Concen: 20.00 ng
RT: 25.07 min Scan# 3784
Delta R.T. 0.01 min
Lab File: BG022271.D
Acq: 9 Jun 2016 16:32

**Instrument :**
BNA_G
**ClientSampleId :**
SS-40

Tgt Ion:264 Resp: 225408

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 24.9 | 20.2 | 30.4 |
| 265 | 21.9 | 17.8 | 26.8 |

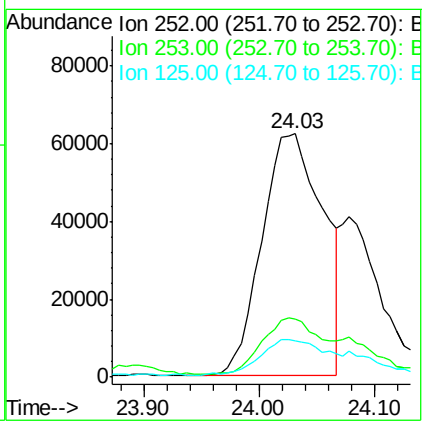


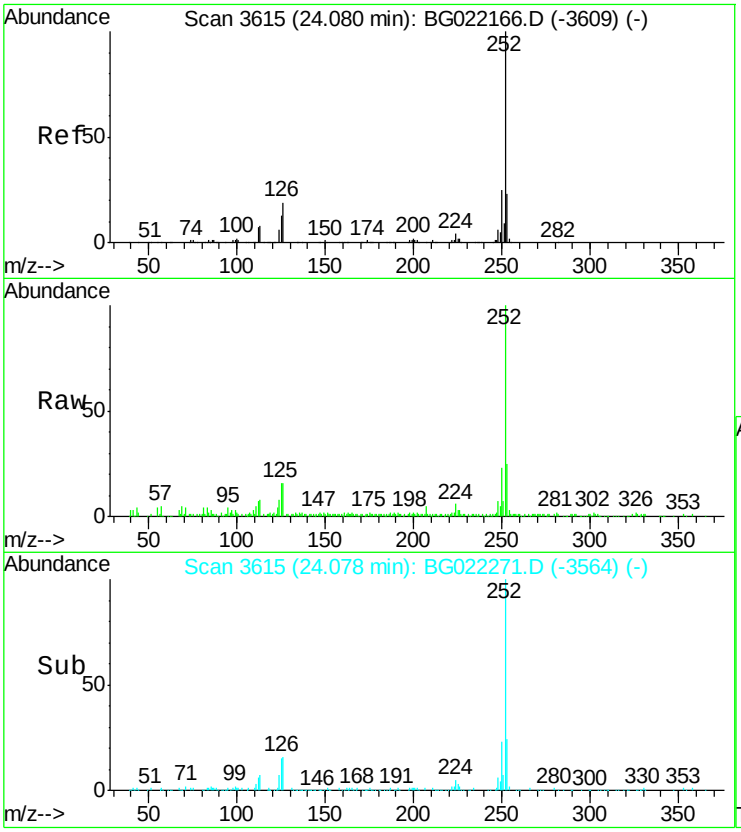




#87
Benzo(b)fluoranthene
Concen: 17.40 ng
RT: 24.03 min Scan# 3607
Delta R.T. 0.02 min
Lab File: BG022271.D
Acq: 9 Jun 2016 16:32

Tgt Ion:252 Resp: 228682

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 23.7 | 17.5 | 26.3 |
| 125 | 15.0 | 8.6 | 13.0# |



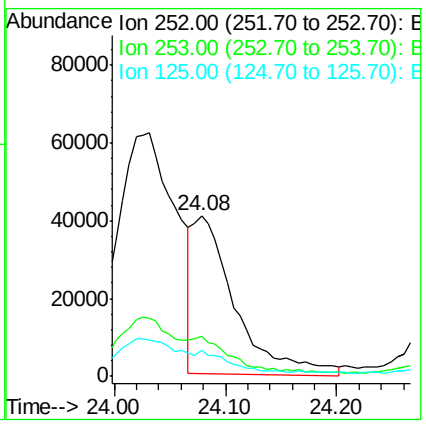


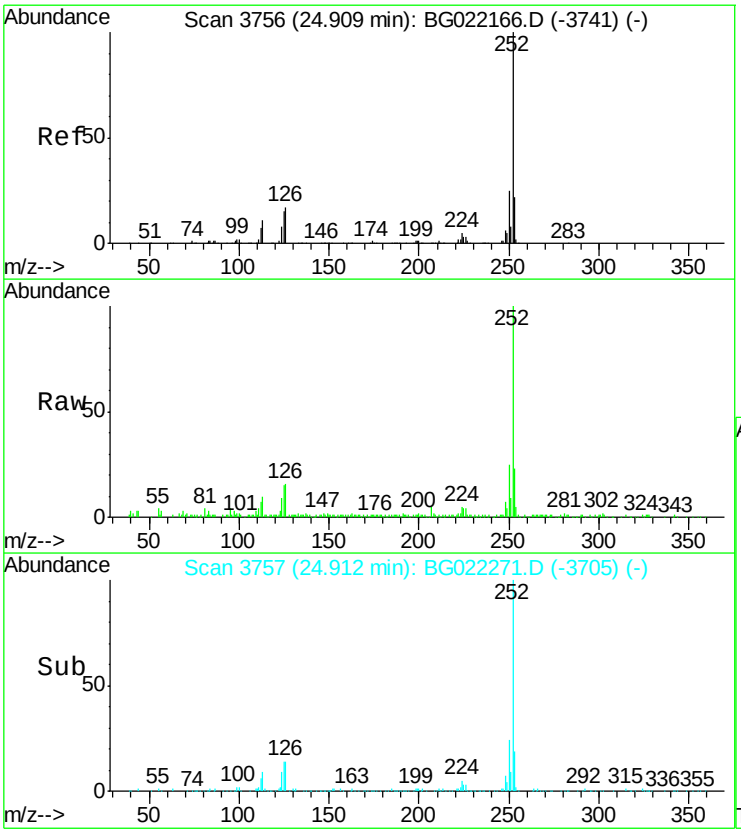

#88
Benzo(k)fluoranthene
Concen: 8.35 ng m
RT: 24.08 min Scan# 3615
Delta R.T. -0.00 min
Lab File: BG022271.D
Acq: 9 Jun 2016 16:32

**Instrument :**
BNA_G
**ClientSampleId :**
SS-40

Tgt Ion:252 Resp: 108045

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 25.0 | 17.8 | 26.8 |
| 125 | 16.3 | 8.3 | 12.5# |

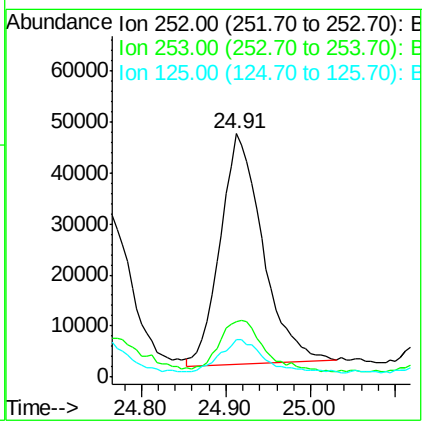


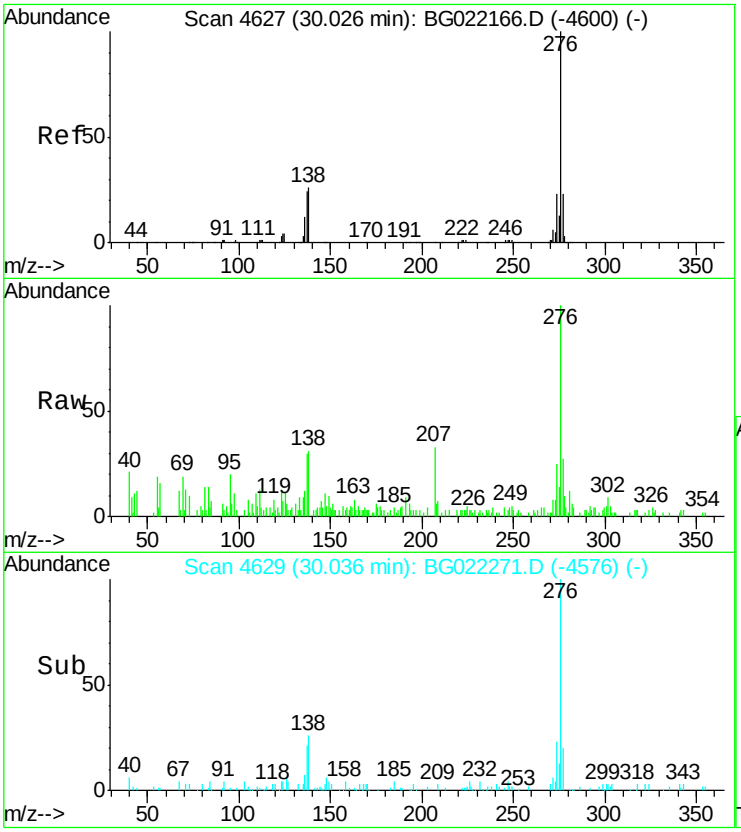




#89
Benzo(a)pyrene
Concen: 12.53 ng
RT: 24.91 min Scan# 3757
Delta R.T. 0.00 min
Lab File: BG022271.D
Acq: 9 Jun 2016 16:32

Tgt Ion:252 Resp: 157496

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.5 | 17.1 | 25.7 |
| 125 | 15.5 | 9.6 | 14.4# |






#91
Benzo(g,h,i)perylene
Concen: 5.71 ng m
RT: 30.04 min Scan# 4629
Delta R.T. 0.01 min
Lab File: BG022271.D
Acq: 9 Jun 2016 16:32

**Instrument :**
BNA_G
**ClientSampleId :**
SS-40

Tgt Ion:276 Resp: 70317

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 26.6 | 19.4 | 29.2 |
| 138 | 31.2 | 17.4 | 26.0# |