Quantitation Report (LSC Reviewed)

Data Path : Z:\HPCHEM1\BNA F\DATA\BF071716\
Data File : BF089080.D
Acq On : 17 Jul 2016 16:12
Operator : UM/SJ
Sample : H4046-17
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** C5-2

Quant Time: Jul 18 03:52:30 2016
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF063016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jul 11 18:13:32 2016
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 6.65 | 152 | 53908 | 20.00 | ng | | -0.06 |
| 21) Naphthalene-d8 | 7.94 | 136 | 230265 | 20.00 | ng | | -0.06 |
| 38) Acenaphthene-d10 | 9.69 | 164 | 97580 | 20.00 | ng | | -0.06 |
| 63) Phenanthrene-d10 | 11.16 | 188 | 153767 | 20.00 | ng | | -0.06 |
| 75) Chrysene-d12 | 13.79 | 240 | 109241 | 20.00 | ng | | -0.06 |
| 86) Perylene-d12 | 15.15 | 264 | 97396 | 20.00 | ng | | -0.06 |
| **System Monitoring Compounds** | | | | | | | |
| 5) 2-Fluorophenol | 5.26 | 112 | 452473 | 125.79 | ng | | -0.03 |
| 7) Phenol-d6 | 6.32 | 99 | 596760 | 128.40 | ng | | -0.03 |
| 23) Nitrobenzene-d5 | 7.22 | 82 | 369080 | 84.00 | ng | | -0.06 |
| 41) 2,4,6-Tribromophenol | 10.48 | 330 | 92387 | 101.96 | ng | | -0.06 |
| 44) 2-Fluorobiphenyl | 9.03 | 172 | 622873 | 100.83 | ng | | -0.05 |
| 78) Terphenyl-d14 | 12.75 | 244 | 355717 | 72.53 | ng | | -0.05 |
| **Target Compounds** | | | | | | | Qvalue |
| 49) Dimethylphthalate | 9.42 | 163 | 129642 | 18.65 | ng | | 99 |
| 70) Phenanthrene | 11.19 | 178 | 108113 | 12.86 | ng | | 98 |
| 71) Anthracene | 11.23 | 178 | 24785 | 2.97 | ng | | 98 |
| 74) Fluoranthene | 12.37 | 202 | 129231 | 15.17 | ng | | 97 |
| 77) Pyrene | 12.59 | 202 | 139699 | 15.08 | ng | | 98 |
| 80) Benzo(a)anthracene | 13.78 | 228 | 69471 | 9.88 | ng | | 95 |
| 82) Chrysene | 13.82 | 228 | 71614 | 10.29 | ng | | 97 |
| 83) Bis(2-ethylhexyl)phthalate | 13.79 | 149 | 54782 | 11.61 | ng | # | 99 |
| 85) Indeno(1,2,3-cd)pyrene | 16.41 | 276 | 22559 | 4.21 | ng | # | 100 |
| 87) Benzo(b)fluoranthene | 14.78 | 252 | 76103m | 12.46 | ng | | |
| 88) Benzo(k)fluoranthene | 14.79 | 252 | 28092m | 5.28 | ng | | |
| 89) Benzo(a)pyrene | 15.10 | 252 | 40534m | 7.84 | ng | | |
| 91) Benzo(g,h,i)perylene | 16.79 | 276 | 21184 | 4.74 | ng | | 98 |

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

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Acq On : 17 Jul 2016 16:12
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Sample : H4046-17
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** C5-2

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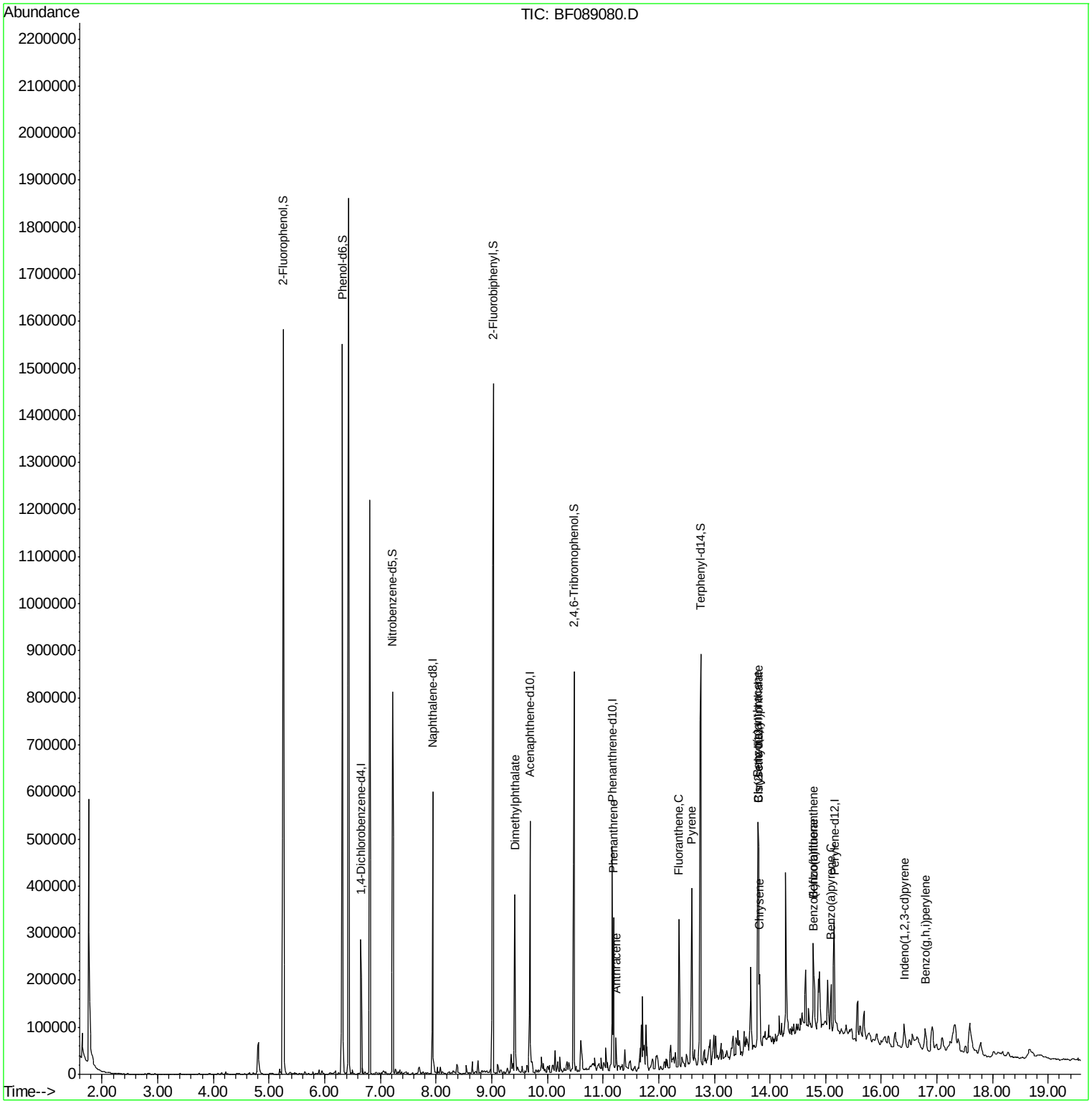
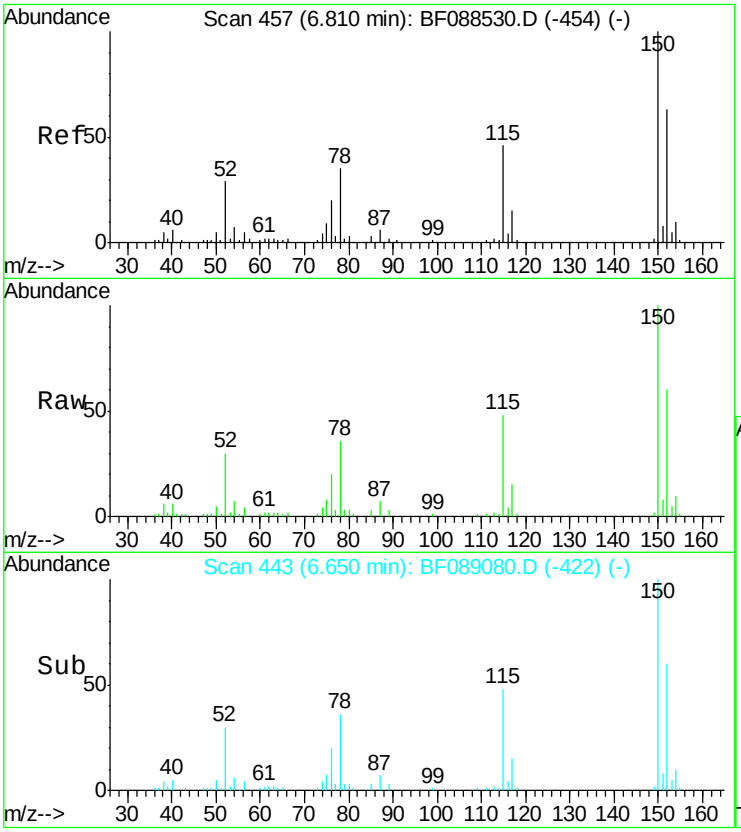
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF063016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jul 11 18:13:32 2016
Response via : Initial Calibration



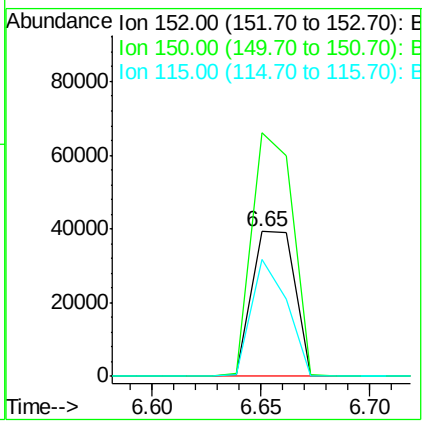


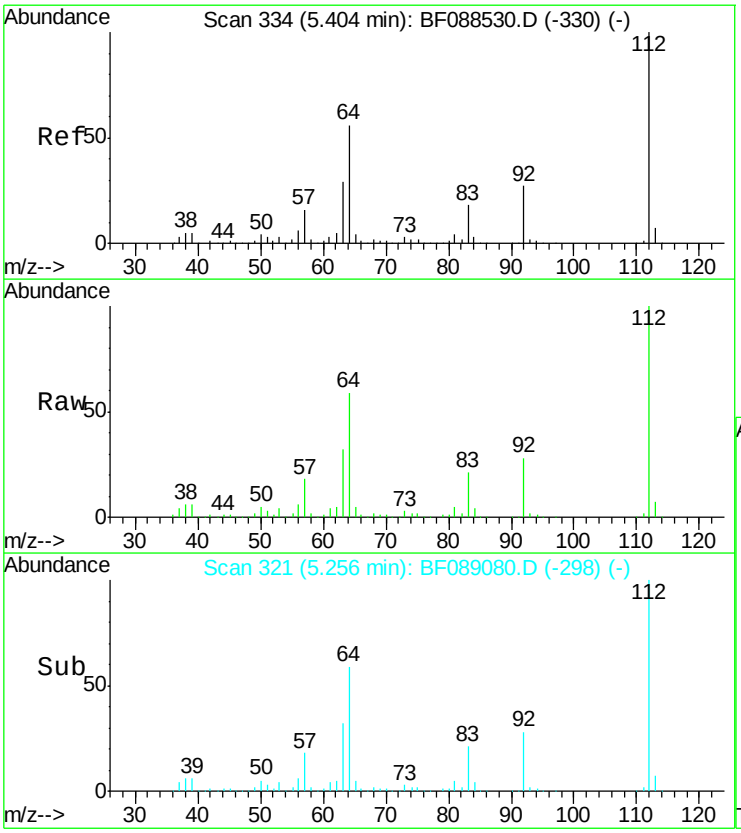

#1
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.65 min Scan# 443
Delta R.T. -0.06 min
Lab File: BF089080.D
Acq: 17 Jul 2016 16:12

**Instrument :**
BNA_F
**ClientSampleId :**
C5-2

Tgt Ion:152 Resp: 53908

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 168.1 | 123.8 | 185.6 |
| 115 | 80.6 | 39.6 | 59.4# |

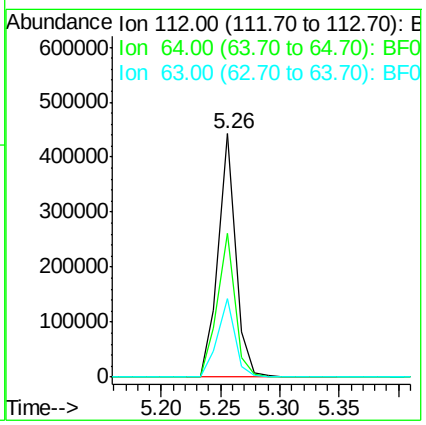


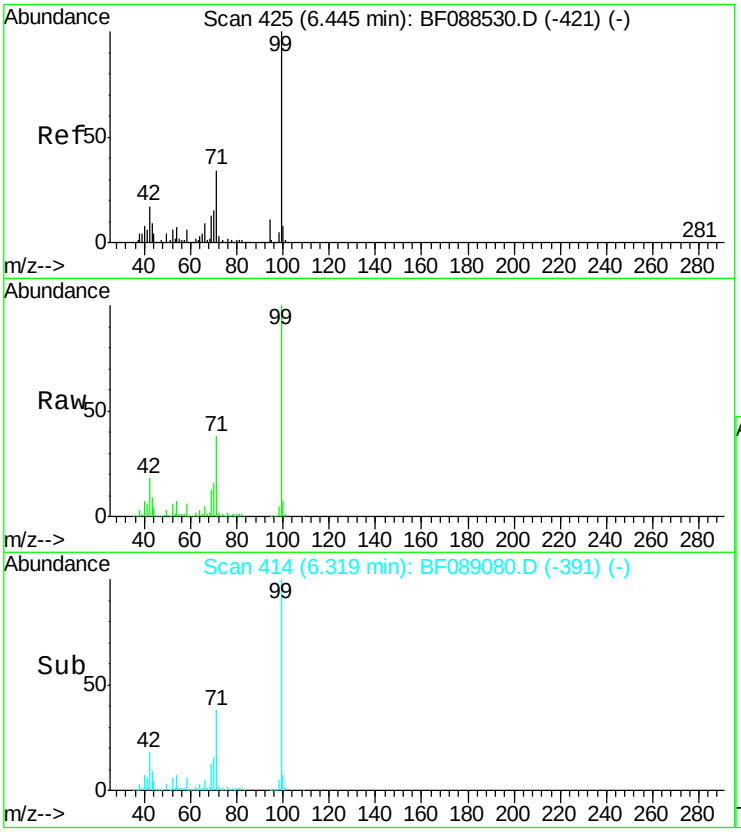




#5
2-Fluorophenol
Concen: 125.79 ng
RT: 5.26 min Scan# 321
Delta R.T. -0.03 min
Lab File: BF089080.D
Acq: 17 Jul 2016 16:12

Tgt Ion:112 Resp: 452473

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 59.0 | 42.2 | 63.2 |
| 63 | 32.2 | 21.8 | 32.8 |



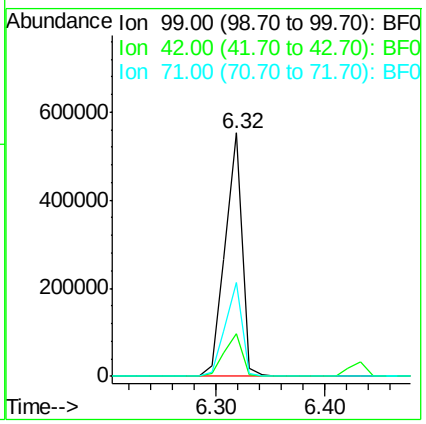


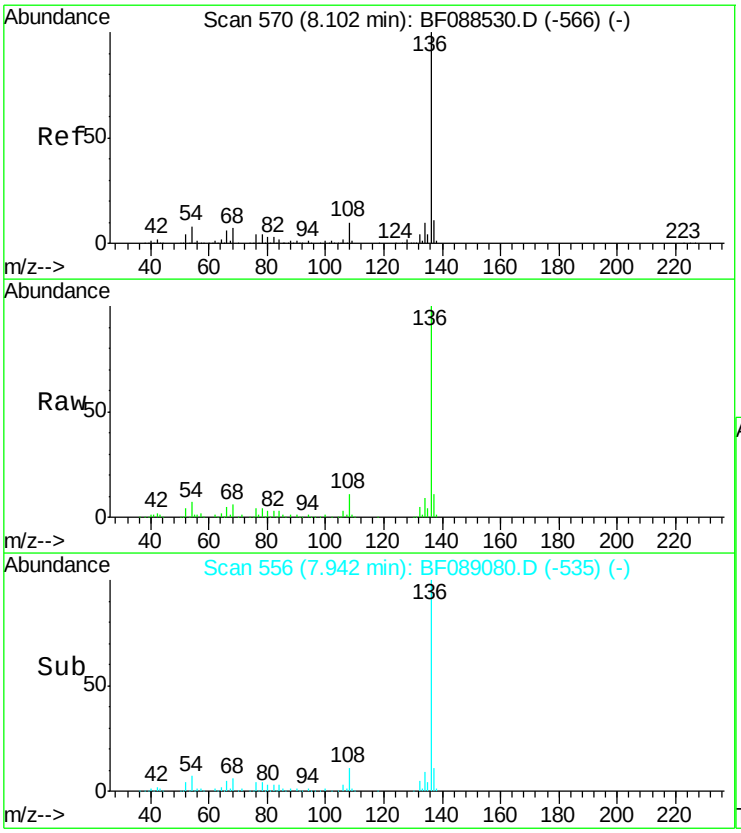

#7
Phenol-d6
Concen: 128.40 ng
RT: 6.32 min Scan# 414
Delta R.T. -0.03 min
Lab File: BF089080.D
Acq: 17 Jul 2016 16:12

**Instrument :**
BNA_F
**ClientSampleId :**
C5-2

Tgt Ion: 99 Resp: 596760

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 17.7 | 12.2 | 18.2 |
| 71 | 38.4 | 23.4 | 35.0# |

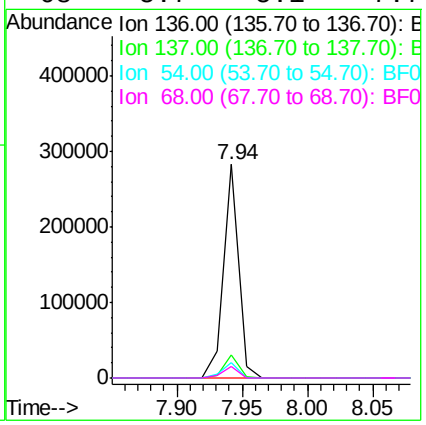


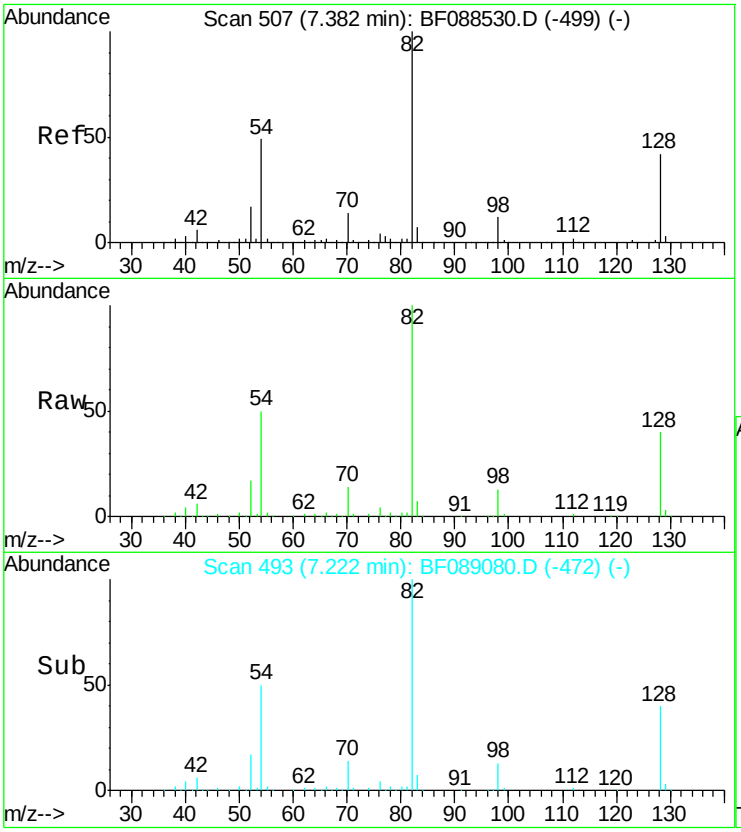




#21
Naphthalene-d8
Concen: 20.00 ng
RT: 7.94 min Scan# 556
Delta R.T. -0.06 min
Lab File: BF089080.D
Acq: 17 Jul 2016 16:12

Tgt Ion:136 Resp: 230265

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.0 | 9.1 | 13.7 |
| 54 | 7.2 | 6.6 | 10.0 |
| 68 | 5.7 | 5.1 | 7.7 |



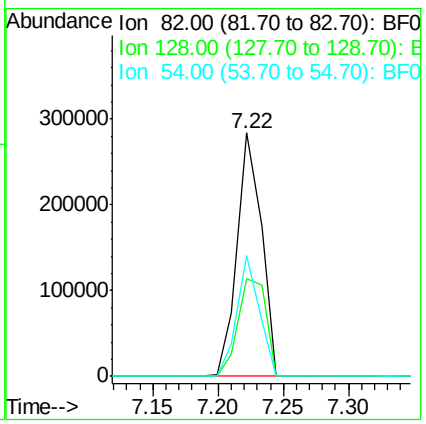


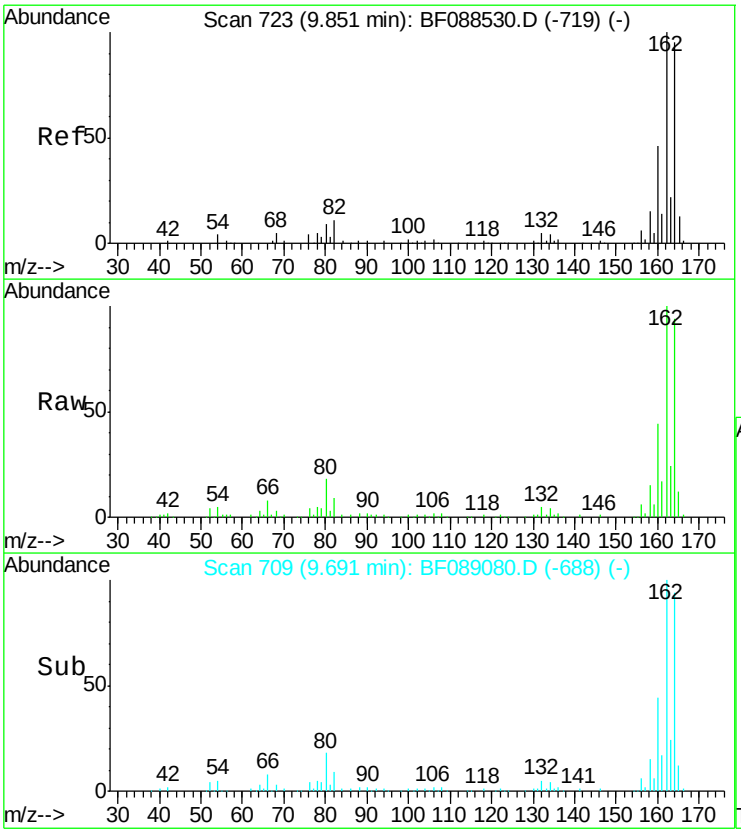

#23
Nitrobenzene-d5
Concen: 84.00 ng
RT: 7.22 min Scan# 493
Delta R.T. -0.06 min
Lab File: BF089080.D
Acq: 17 Jul 2016 16:12

**Instrument :**
BNA_F
**ClientSampleId :**
C5-2

Tgt Ion: 82 Resp: 369080

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 39.9 | 35.9 | 53.9 |
| 54 | 49.5 | 40.9 | 61.3 |

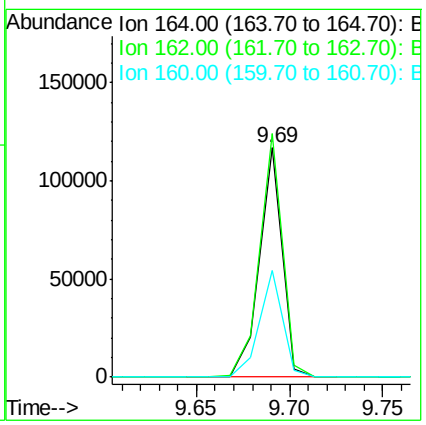


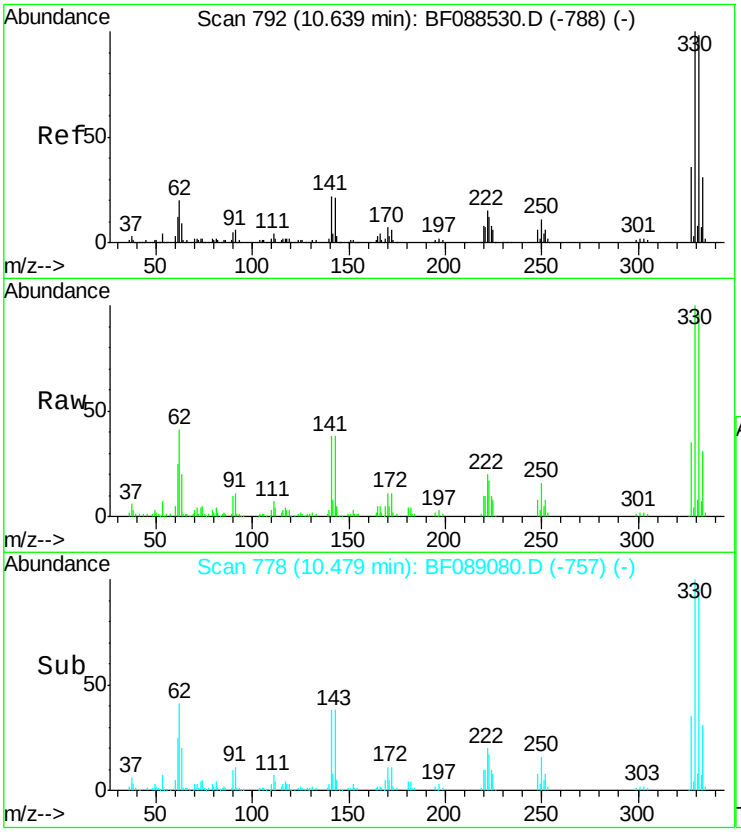




#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.69 min Scan# 709
Delta R.T. -0.06 min
Lab File: BF089080.D
Acq: 17 Jul 2016 16:12

Tgt Ion:164 Resp: 97580

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 106.1 | 85.4 | 128.2 |
| 160 | 46.3 | 39.5 | 59.3 |



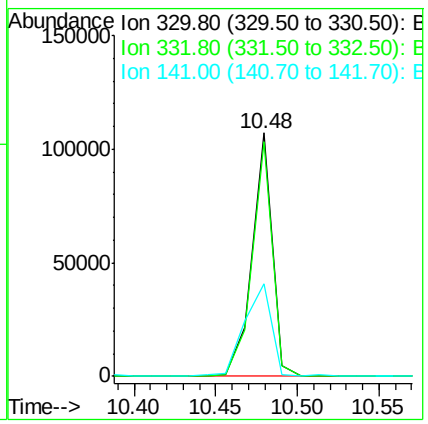


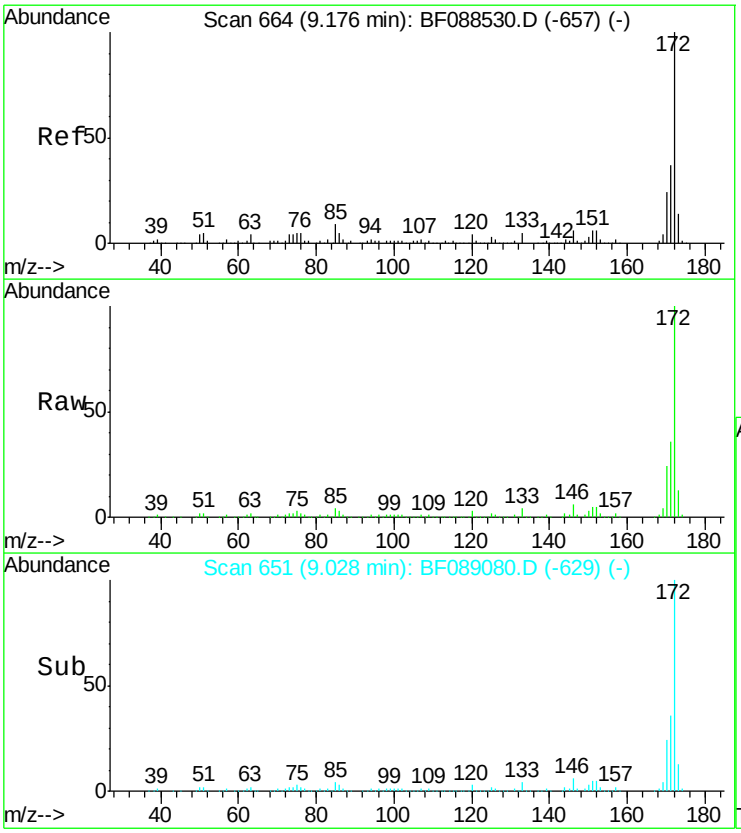

#41
2,4,6-Tribromophenol
Concen: 101.96 ng
RT: 10.48 min Scan# 778
Delta R.T. -0.06 min
Lab File: BF089080.D
Acq: 17 Jul 2016 16:12

**Instrument :**
BNA_F
**ClientSampleId :**
C5-2

Tgt Ion:330 Resp: 92387

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 96.1 | 0.0 | 0.0# |
| 141 | 51.5 | 0.0 | 0.0# |

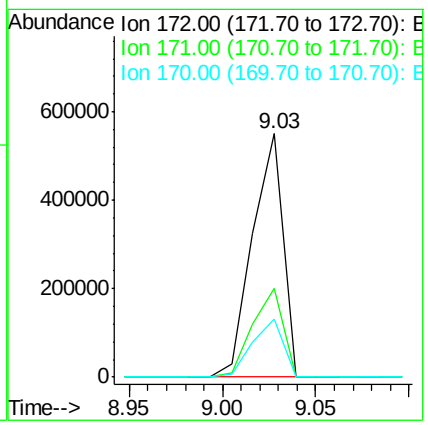


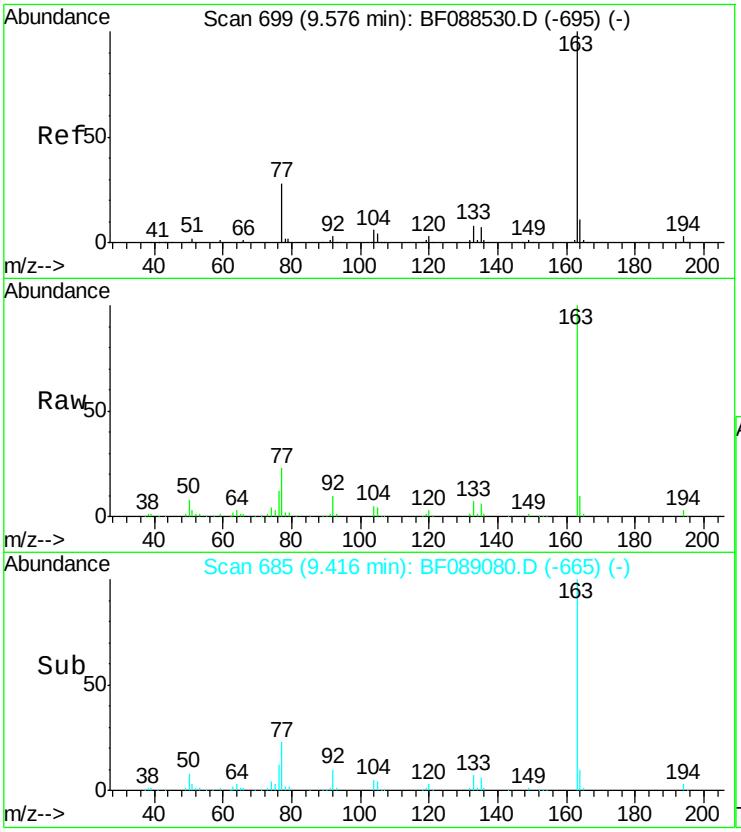




#44
2-Fluorobiphenyl
Concen: 100.83 ng
RT: 9.03 min Scan# 651
Delta R.T. -0.05 min
Lab File: BF089080.D
Acq: 17 Jul 2016 16:12

Tgt Ion:172 Resp: 622873

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.3 | 28.6 | 43.0 |
| 170 | 24.1 | 19.2 | 28.8 |



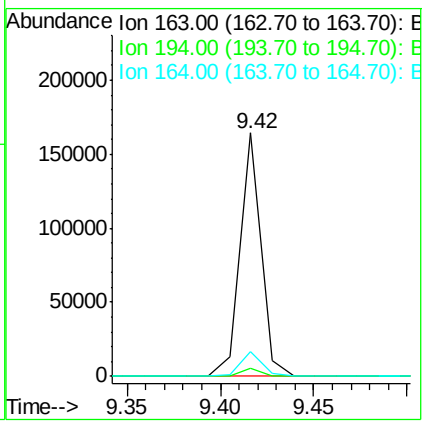


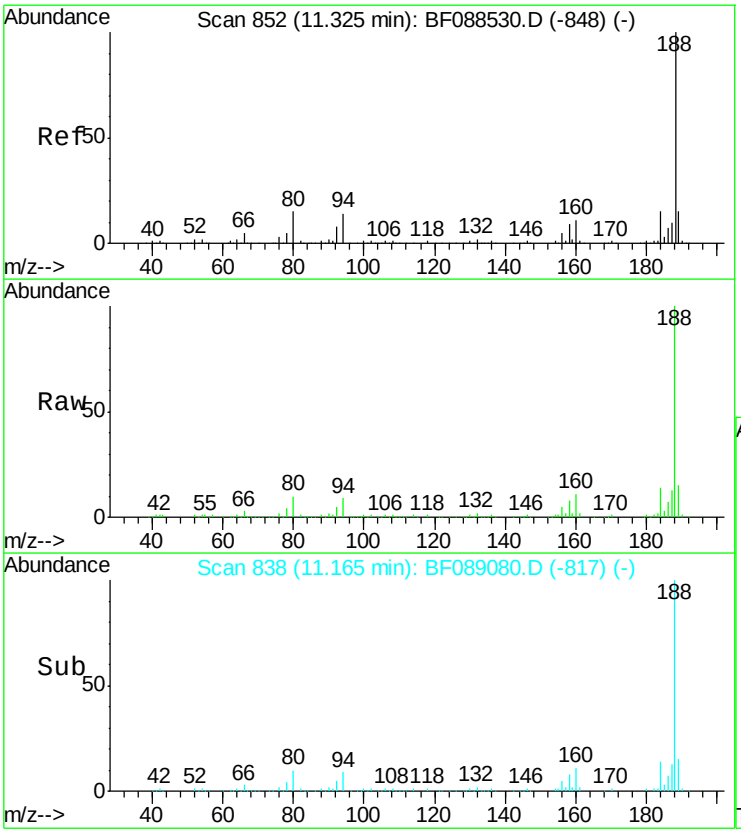

#49
Dimethylphthalate
Concen: 18.65 ng
RT: 9.42 min Scan# 685
Delta R.T. -0.07 min
Lab File: BF089080.D
Acq: 17 Jul 2016 16:12

**Instrument :**
BNA_F
**ClientSampleId :**
C5-2

Tgt Ion:163 Resp: 129642

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 163 | 100 | | |
| 194 | 3.4 | 2.8 | 4.2 |
| 164 | 10.2 | 8.3 | 12.5 |

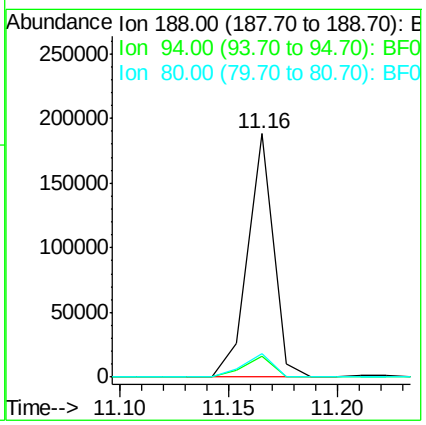


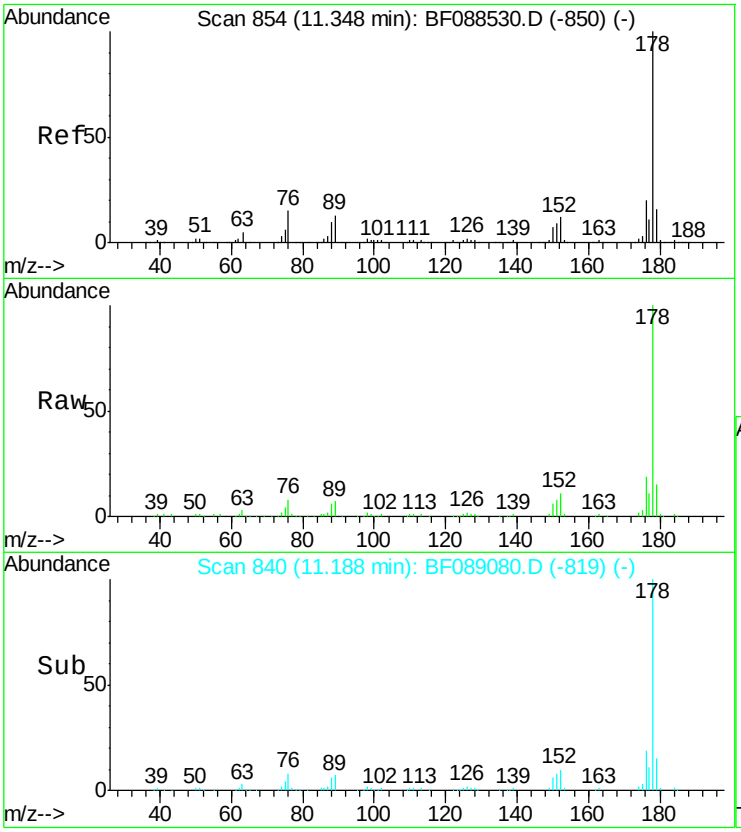




#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.16 min Scan# 838
Delta R.T. -0.06 min
Lab File: BF089080.D
Acq: 17 Jul 2016 16:12

Tgt Ion:188 Resp: 153767

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 8.8 | 9.0 | 13.6# |
| 80 | 9.8 | 10.0 | 15.0# |



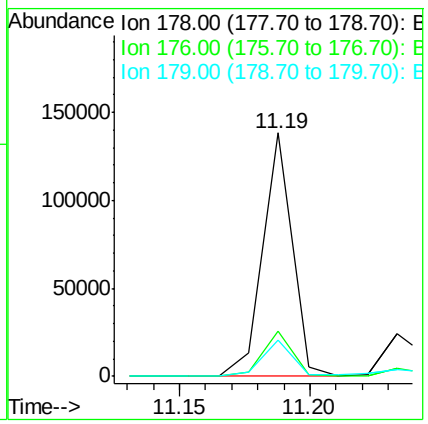


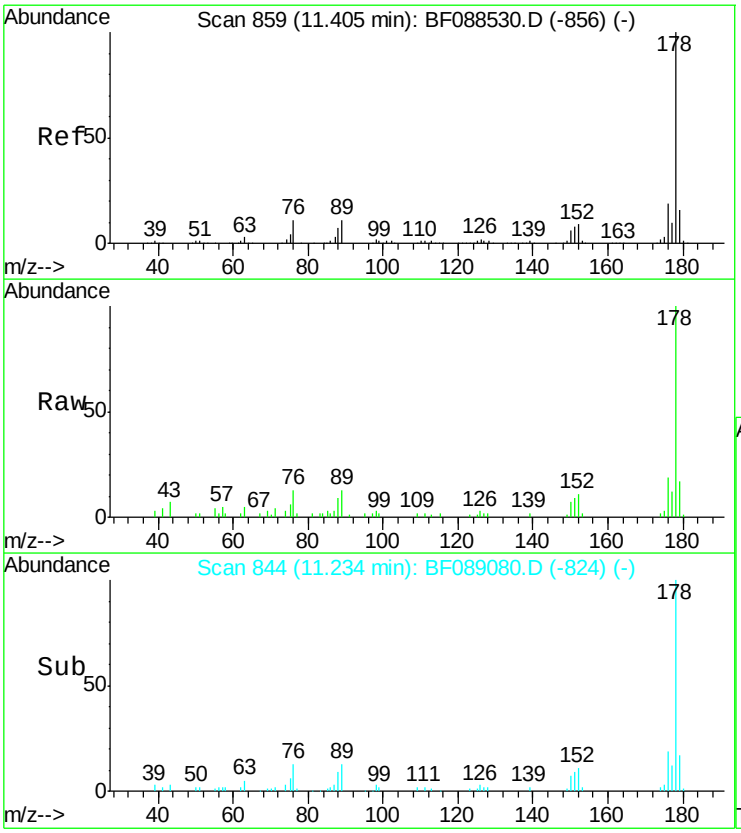

#70
Phenanthrene
Concen: 12.86 ng
RT: 11.19 min Scan# 840
Delta R.T. -0.06 min
Lab File: BF089080.D
Acq: 17 Jul 2016 16:12

**Instrument :**
BNA_F
**ClientSampleId :**
C5-2

Tgt Ion:178 Resp: 108113

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.7 | 15.8 | 23.6 |
| 179 | 15.0 | 13.0 | 19.4 |

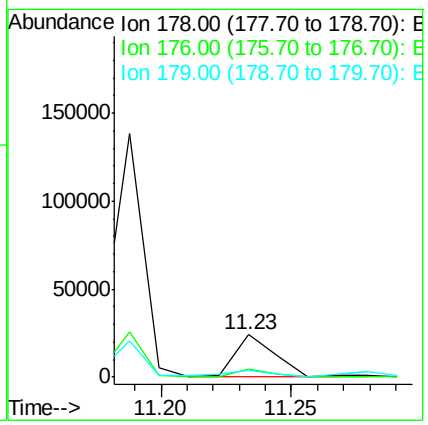


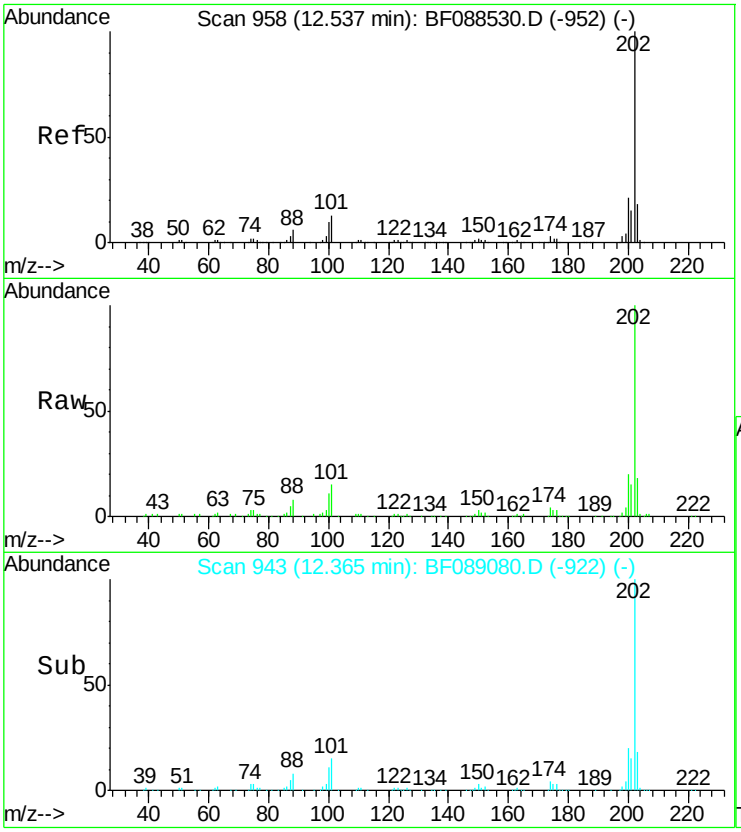




#71
Anthracene
Concen: 2.97 ng
RT: 11.23 min Scan# 844
Delta R.T. -0.07 min
Lab File: BF089080.D
Acq: 17 Jul 2016 16:12

Tgt Ion:178 Resp: 24785

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.9 | 15.6 | 23.4 |
| 179 | 17.3 | 12.8 | 19.2 |



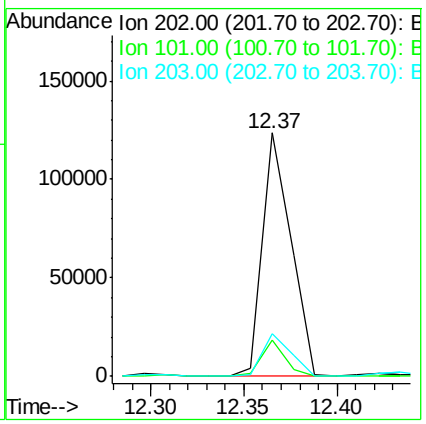


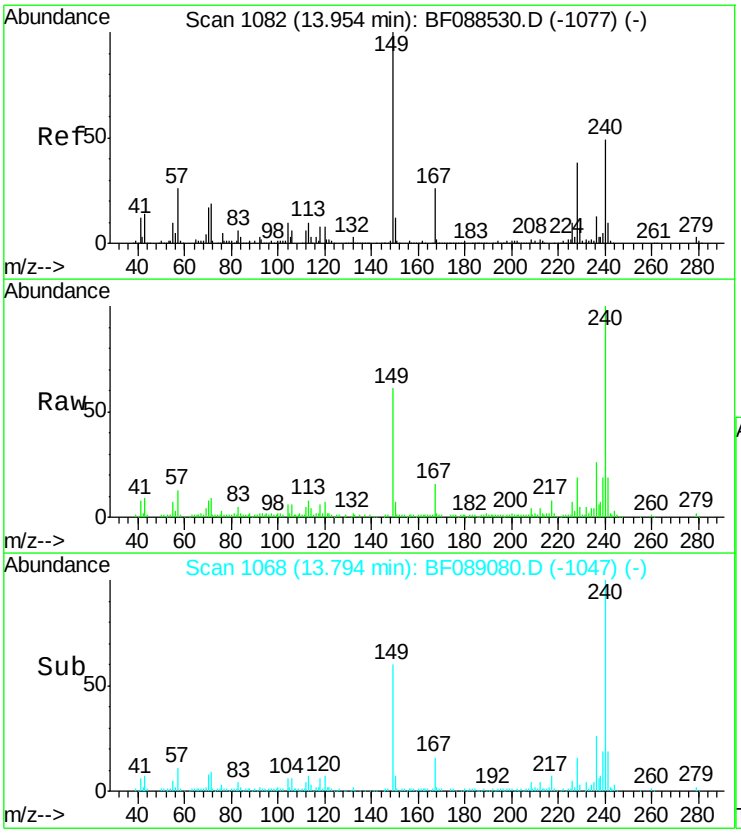

#74
Fluoranthene
Concen: 15.17 ng
RT: 12.37 min Scan# 943
Delta R.T. -0.06 min
Lab File: BF089080.D
Acq: 17 Jul 2016 16:12

**Instrument :**
BNA_F
**ClientSampleId :**
C5-2

Tgt Ion:202 Resp: 129231

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 15.0 | 0.0 | 33.1 |
| 203 | 17.6 | 0.0 | 38.1 |

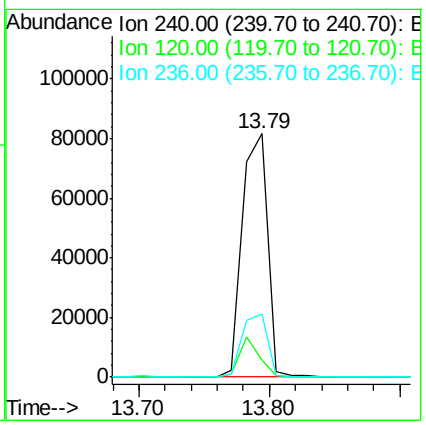


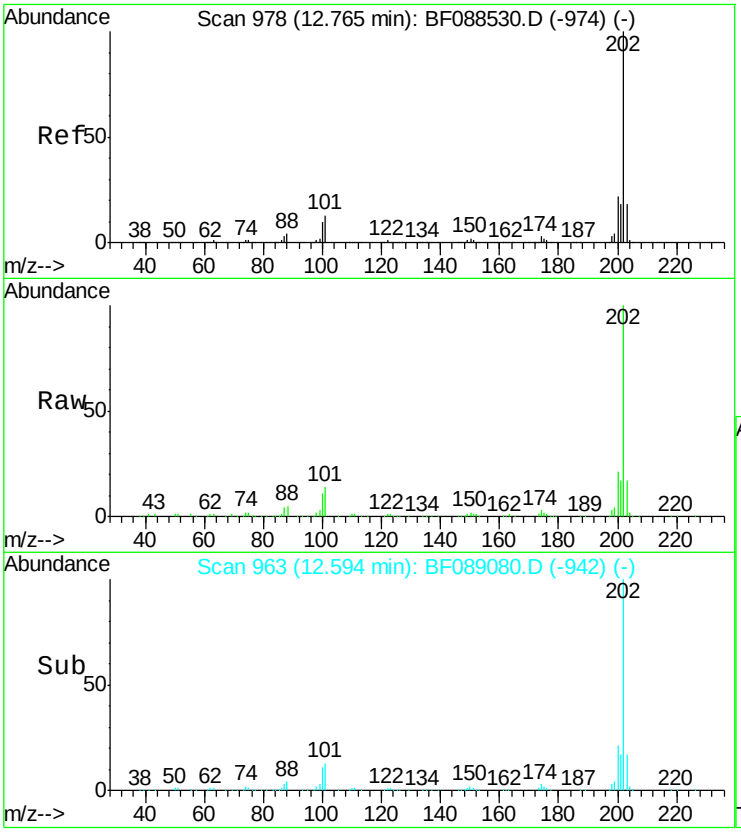




#75
Chrysene-d12
Concen: 20.00 ng
RT: 13.79 min Scan# 1068
Delta R.T. -0.06 min
Lab File: BF089080.D
Acq: 17 Jul 2016 16:12

Tgt Ion:240 Resp: 109241

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 7.1 | 6.8 | 10.2 |
| 236 | 25.7 | 20.2 | 30.2 |



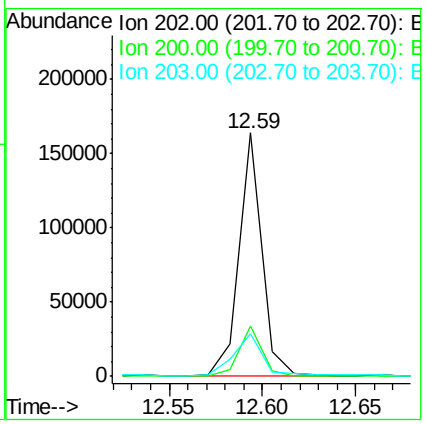


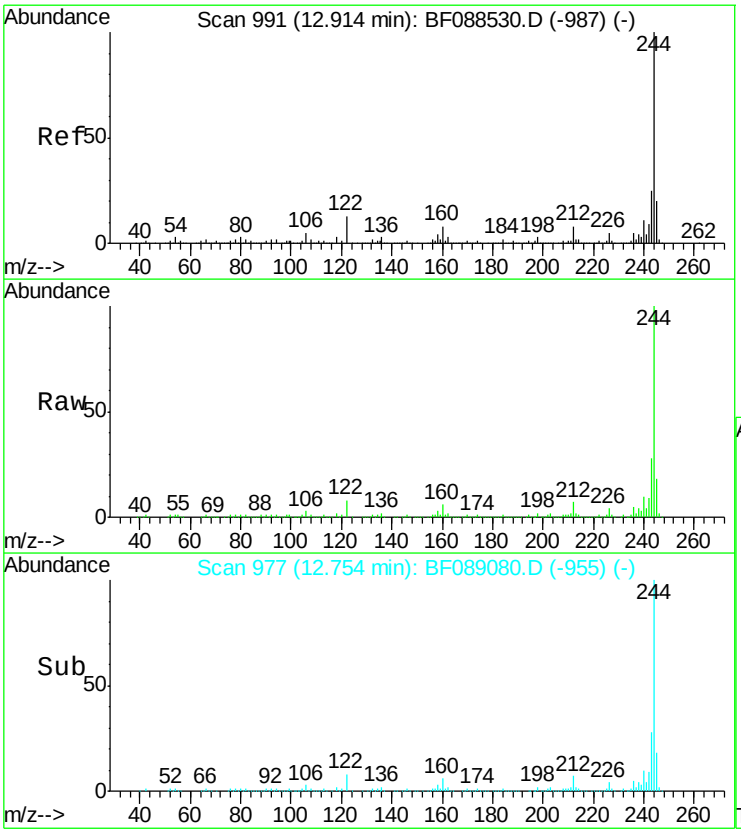

#77
Pyrene
Concen: 15.08 ng
RT: 12.59 min Scan# 963
Delta R.T. -0.06 min
Lab File: BF089080.D
Acq: 17 Jul 2016 16:12

**Instrument :** BNA_F
**ClientSampleId :** C5-2

Tgt Ion:202 Resp: 139699

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 20.6 | 17.4 | 26.2 |
| 203 | 17.4 | 14.5 | 21.7 |

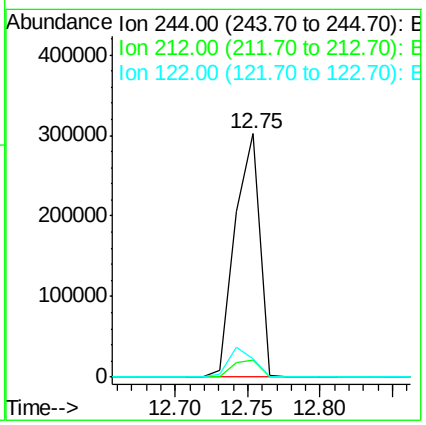


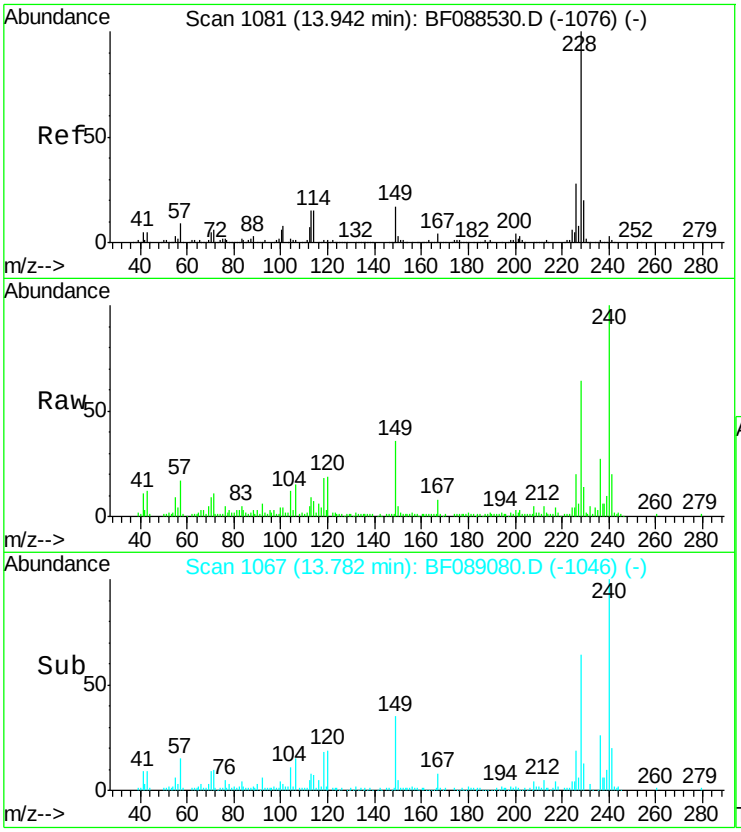




#78
Terphenyl-d14
Concen: 72.53 ng
RT: 12.75 min Scan# 977
Delta R.T. -0.05 min
Lab File: BF089080.D
Acq: 17 Jul 2016 16:12

Tgt Ion:244 Resp: 355717

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 7.0 | 6.0 | 9.0 |
| 122 | 7.6 | 11.2 | 16.8# |



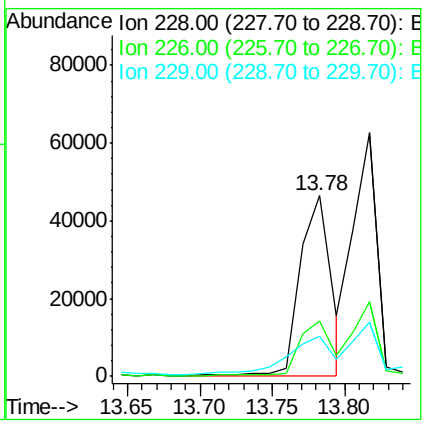


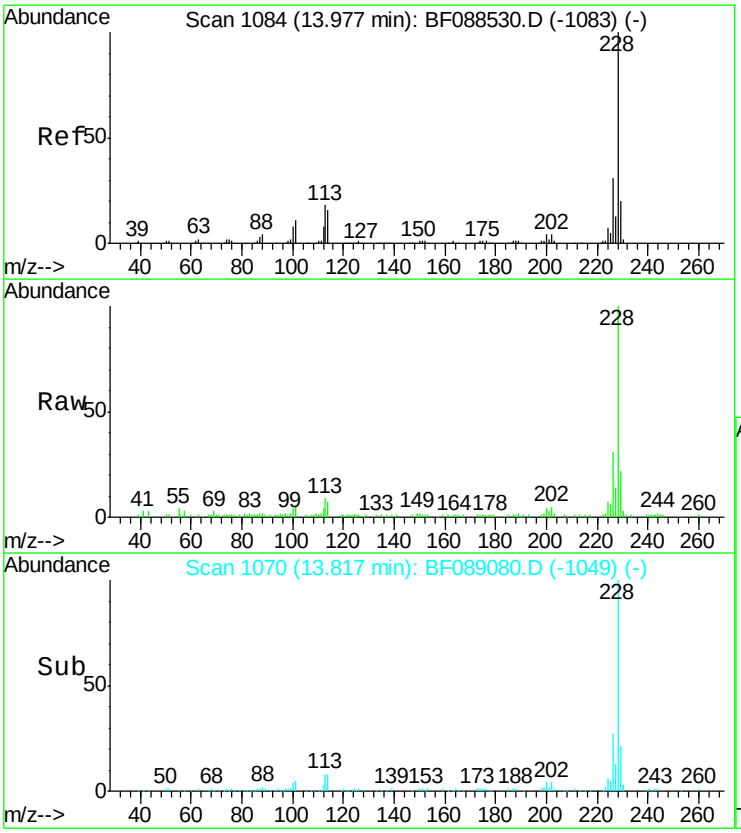

#80
Benzo(a)anthracene
Concen: 9.88 ng
RT: 13.78 min Scan# 1067
Delta R.T. -0.06 min
Lab File: BF089080.D
Acq: 17 Jul 2016 16:12

**Instrument :**
BNA_F
**ClientSampleId :**
C5-2

Tgt Ion:228 Resp: 69471

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.6 | 22.3 | 33.5 |
| 229 | 22.2 | 16.0 | 24.0 |

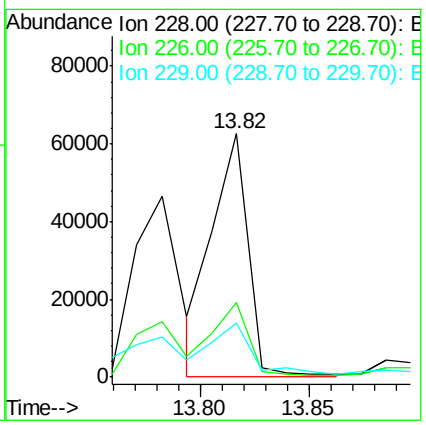


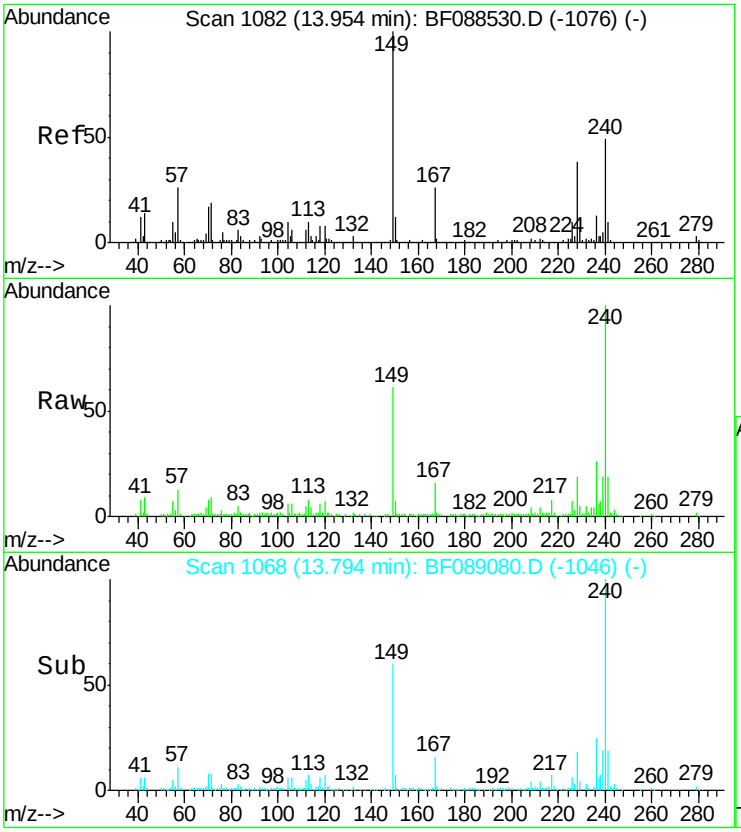




#82
Chrysene
Concen: 10.29 ng
RT: 13.82 min Scan# 1070
Delta R.T. -0.06 min
Lab File: BF089080.D
Acq: 17 Jul 2016 16:12

Tgt Ion:228 Resp: 71614

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.7 | 25.4 | 38.2 |
| 229 | 22.1 | 16.3 | 24.5 |



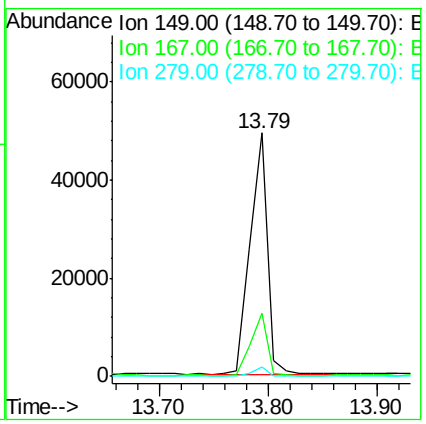


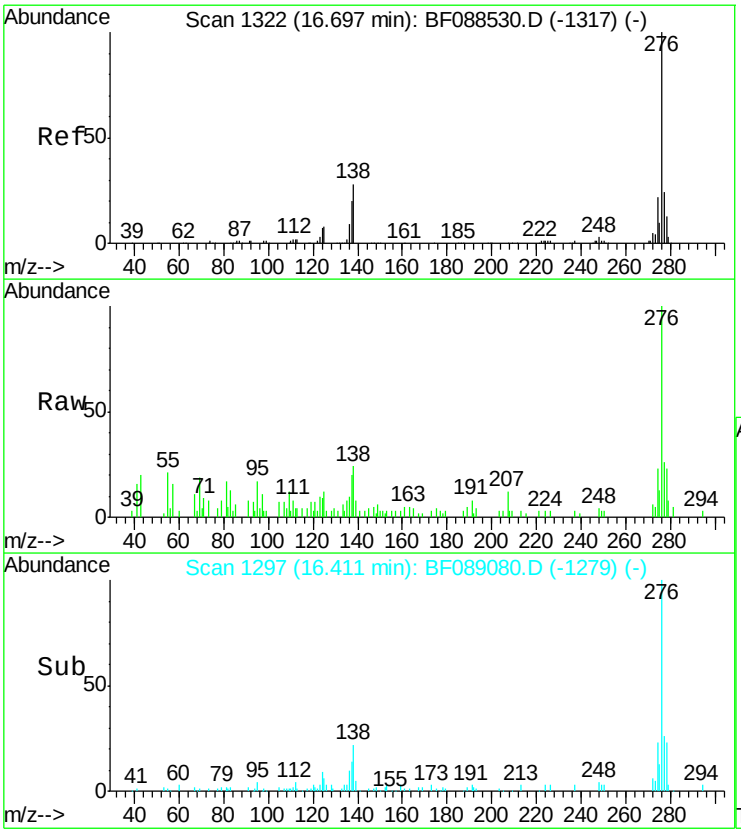

#83
Bis(2-ethylhexyl)phthalate
Concen: 11.61 ng
RT: 13.79 min Scan# 1068
Delta R.T. -0.05 min
Lab File: BF089080.D
Acq: 17 Jul 2016 16:12

**Instrument :**
BNA_F
**ClientSampleId :**
C5-2

Tgt Ion:149 Resp: 54782

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 25.7 | 20.5 | 30.7 |
| 279 | 3.8 | 2.0 | 3.0# |

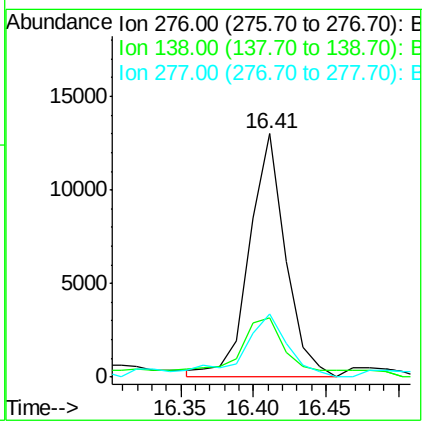


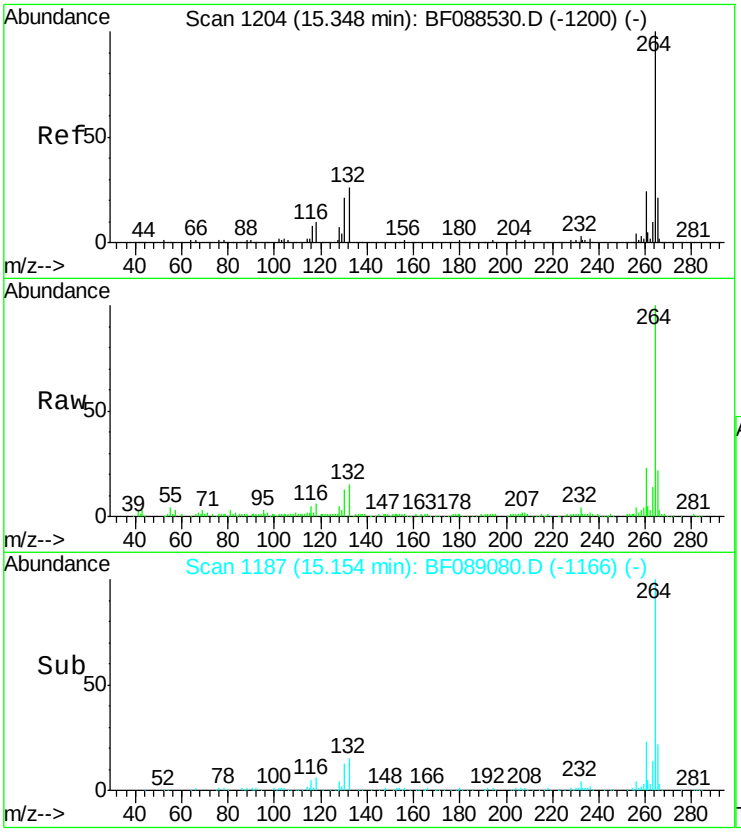




#85
Indeno(1,2,3-cd)pyrene
Concen: 4.21 ng
RT: 16.41 min Scan# 1297
Delta R.T. -0.09 min
Lab File: BF089080.D
Acq: 17 Jul 2016 16:12

Tgt Ion:276 Resp: 22559

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 37.0 | 0.0 | 0.0# |
| 277 | 32.5 | 0.0 | 0.0# |



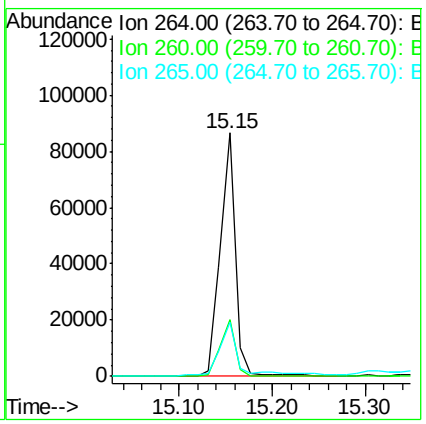


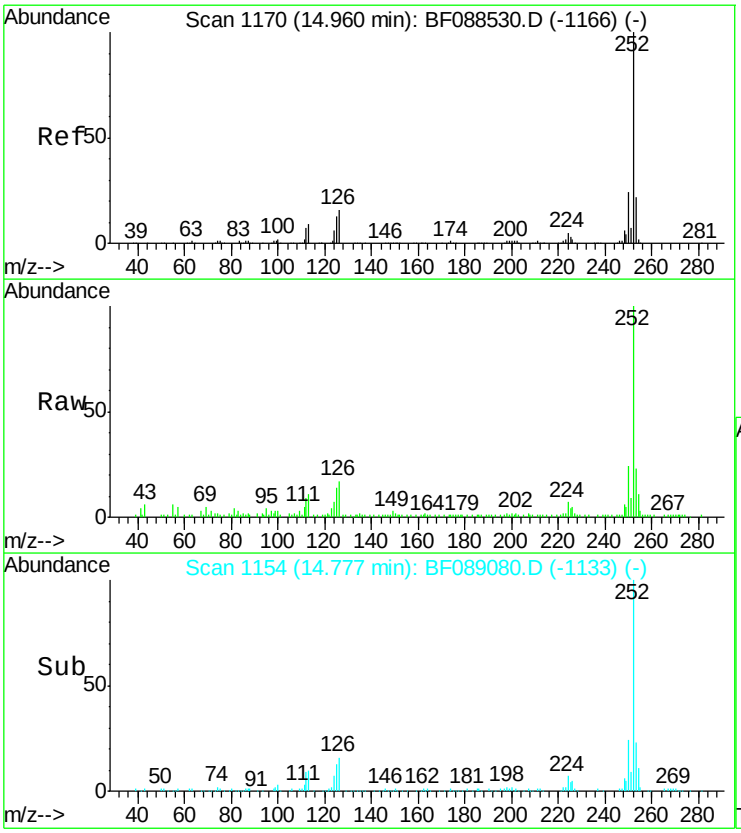

#86
Perylene-d12
Concen: 20.00 ng
RT: 15.15 min Scan# 1187
Delta R.T. -0.06 min
Lab File: BF089080.D
Acq: 17 Jul 2016 16:12

**Instrument :**
BNA_F
**ClientSampleId :**
C5-2

Tgt Ion:264 Resp: 97396

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 23.2 | 19.2 | 28.8 |
| 265 | 22.3 | 16.9 | 25.3 |

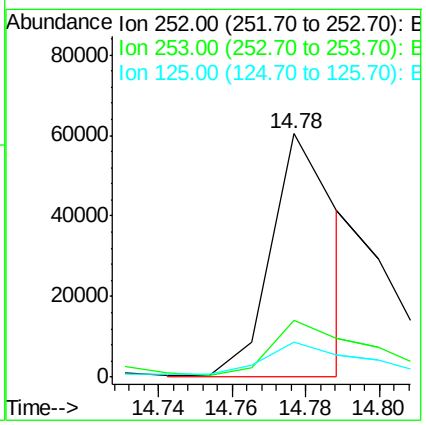


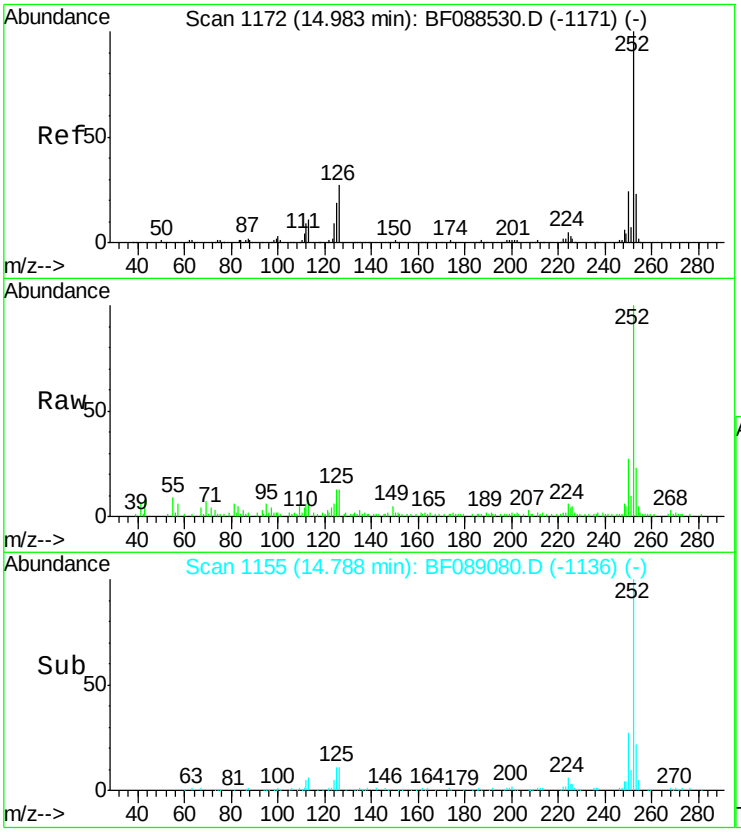




#87
Benzo(b)fluoranthene
Concen: 12.46 ng m
RT: 14.78 min Scan# 1154
Delta R.T. -0.06 min
Lab File: BF089080.D
Acq: 17 Jul 2016 16:12

Tgt Ion:252 Resp: 76103

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 23.4 | 17.4 | 26.2 |
| 125 | 14.4 | 7.1 | 10.7# |



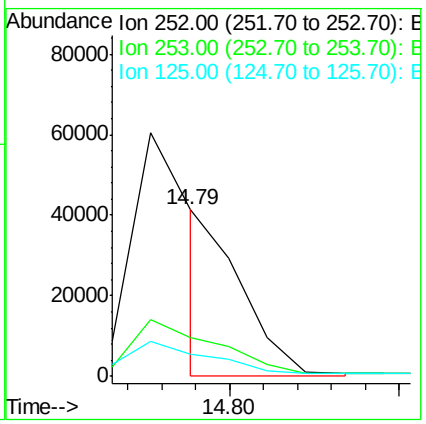


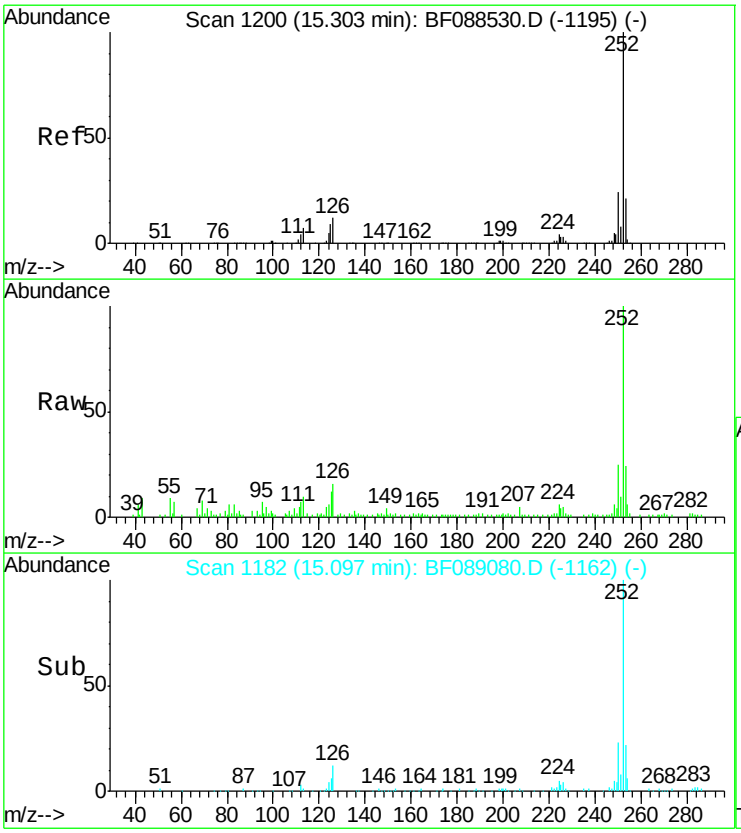

#88
Benzo(k)fluoranthene
Concen: 5.28 ng m
RT: 14.79 min Scan# 1155
Delta R.T. -0.08 min
Lab File: BF089080.D
Acq: 17 Jul 2016 16:12

**Instrument :**
BNA_F
**ClientSampleId :**
C5-2

Tgt Ion:252 Resp: 28092

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 23.2 | 18.0 | 27.0 |
| 125 | 13.0 | 11.2 | 16.8 |

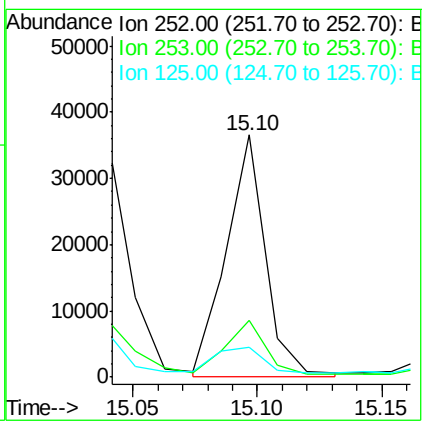


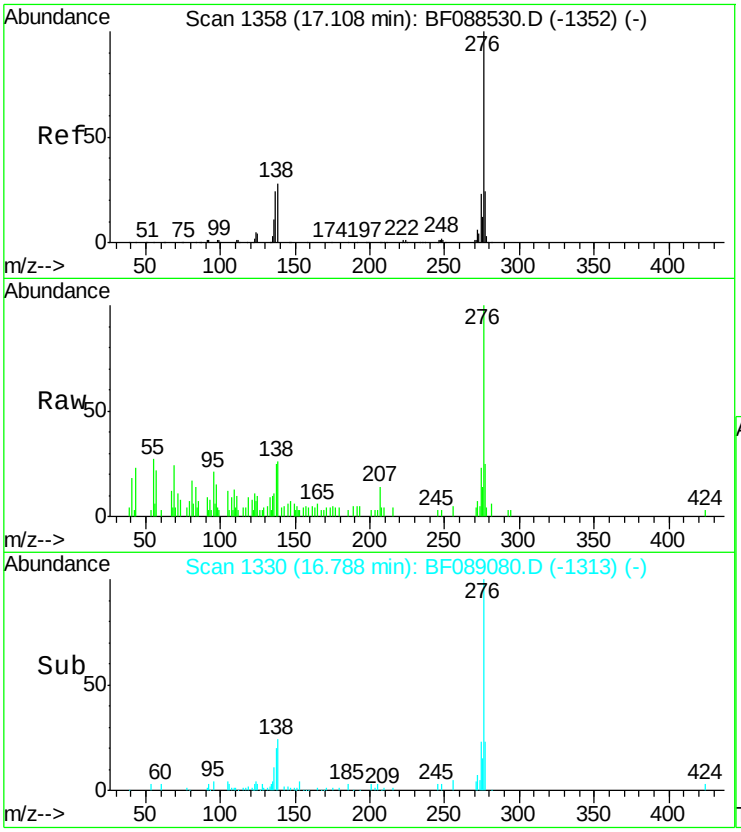




#89
Benzo(a)pyrene
Concen: 7.84 ng m
RT: 15.10 min Scan# 1182
Delta R.T. -0.07 min
Lab File: BF089080.D
Acq: 17 Jul 2016 16:12

Tgt Ion:252 Resp: 40534

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 23.6 | 17.9 | 26.9 |
| 125 | 12.3 | 12.5 | 18.7# |






#91
Benzo(g,h,i)perylene
Concen: 4.74 ng
RT: 16.79 min Scan# 1330
Delta R.T. -0.10 min
Lab File: BF089080.D
Acq: 17 Jul 2016 16:12

**Instrument :**
BNA_F
**ClientSampleId :**
C5-2

Tgt Ion:276 Resp: 21184

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 25.0 | 18.9 | 28.3 |
| 138 | 26.5 | 21.4 | 32.2 |