Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA E\DATA\BE040417\
Data File : BE092885.D
Acq On : 4 Apr 2017 15:23
Operator : SJ/MA
Sample : SSTDICC010
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_E
**ClientSampleId :** SSTDICC010

Quant Time: Apr 04 16:04:13 2017
Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE040417.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Apr 04 12:06:05 2017
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 7.77 | 152 | 8082 | 5.00 | ng | | -0.02 |
| 7) Naphthalene-d8 | 10.54 | 136 | 36528 | 5.00 | ng | | 0.00 |
| 12) Acenaphthene-d10 | 14.40 | 164 | 18320 | 5.00 | ng | | 0.00 |
| 18) Phenanthrene-d10 | 17.13 | 188 | 40622 | 5.00 | ng | | -0.02 |
| 24) Chrysene-d12 | 21.28 | 240 | 50354 | 5.00 | ng | | -0.02 |
| 31) Perylene-d12 | 23.70 | 264 | 41156 | 5.00 | ng | | -0.01 |
| **System Monitoring Compounds** | | | | | | | |
| 4) 2-Fluorophenol | 5.35 | 112 | 18782 | 9.98 | ng | | 0.00 |
| 5) Phenol-d6 | 6.94 | 99 | 27934 | 10.12 | ng | | 0.00 |
| 8) Nitrobenzene-d5 | 8.90 | 82 | 26431 | 12.60 | ng | | -0.02 |
| 13) 2,4,6-Tribromophenol | 0.00 | 330 | 0d | 0.00 | ng | | |
| 14) 2-Fluorobiphenyl | 13.02 | 172 | 61912 | 10.25 | ng | | -0.01 |
| 26) Terphenyl-d14 | 19.74 | 244 | 82956 | 9.53 | ng | | -0.02 |
| **Target Compounds** | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.31 | 88 | 9964 | 9.22 | ng | | 96 |
| 3) n-Nitrosodimethylamine | 3.59 | 42 | 12114 | 10.85 | ng | | 81 |
| 6) bis(2-Chloroethyl)ether | 7.20 | 93 | 27253 | 10.37 | ng | # | 50 |
| 9) Naphthalene | 10.58 | 128 | 80566 | 10.07 | ng | # | 94 |
| 10) Hexachlorobutadiene | 10.89 | 225 | 10893 | 10.16 | ng | | 100 |
| 11) 2-Methylnaphthalene | 12.21 | 142 | 53195 | 10.48 | ng | # | 85 |
| 16) Acenaphthene | 14.45 | 154 | 54328 | 10.85 | ng | | 100 |
| 17) Fluorene | 15.44 | 166 | 63949 | 10.71 | ng | | 100 |
| 19) Hexachlorobenzene | 16.47 | 284 | 16557 | 10.99 | ng | # | 64 |
| 21) Phenanthrene | 17.18 | 178 | 111698 | 11.30 | ng | # | 95 |
| 22) Anthracene | 17.27 | 178 | 106807 | 11.89 | ng | | 98 |
| 23) Fluoranthene | 19.16 | 202 | 464750 | 10.22 | ng | # | 99 |
| 25) Pyrene | 19.54 | 202 | 515921 | 10.30 | ng | | 99 |
| 27) Benzo(a)anthracene | 21.26 | 228 | 125522m | 10.52 | ng | | |
| 28) Chrysene | 21.31 | 228 | 126438m | 10.04 | ng | | |
| 30) Indeno(1,2,3-cd)pyrene | 26.24 | 276 | 494222 | 10.44 | ng | # | 93 |
| 32) Benzo(b)fluoranthene | 22.96 | 252 | 115217 | 10.52 | ng | | 98 |
| 33) Benzo(k)fluoranthene | 23.01 | 252 | 109935 | 11.21 | ng | | 95 |
| 35) Dibenzo(a,h)anthracene | 26.27 | 278 | 107149 | 11.13 | ng | | 96 |
| 36) Benzo(g,h,i)perylene | 27.00 | 276 | 426765 | 10.69 | ng | | 93 |

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

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Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
BNA_E
**ClientSampleId :**
SSTDICC010

Quant Time: Apr 04 16:04:13 2017
Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE040417.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Apr 04 12:06:05 2017
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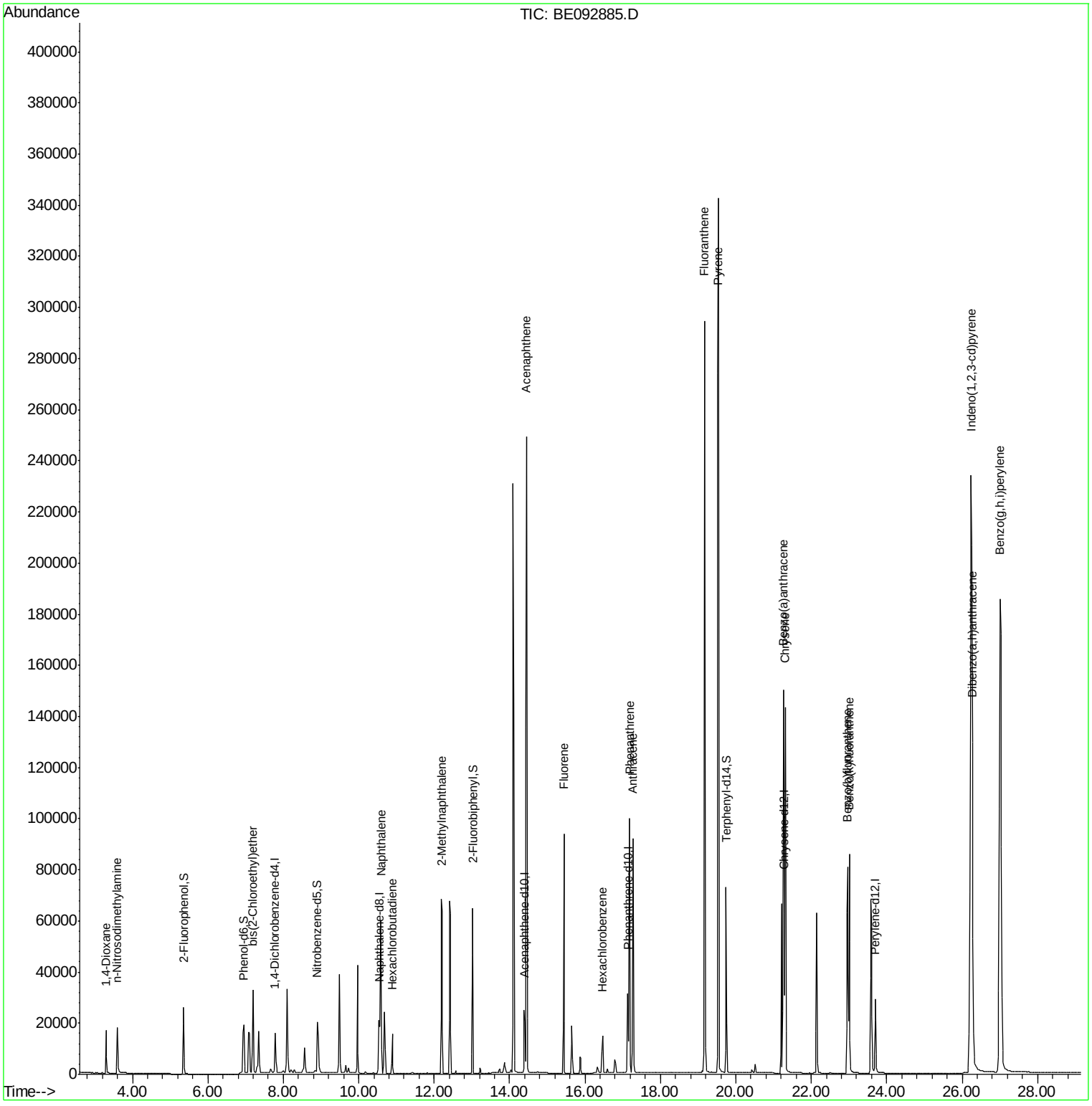
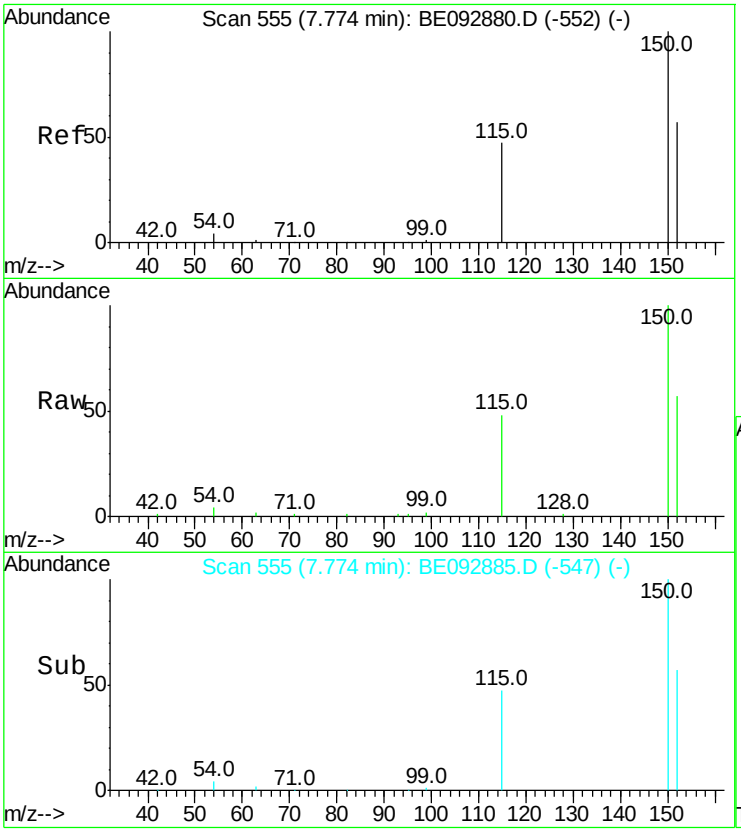


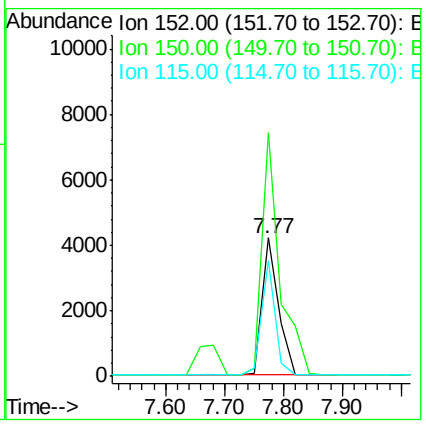


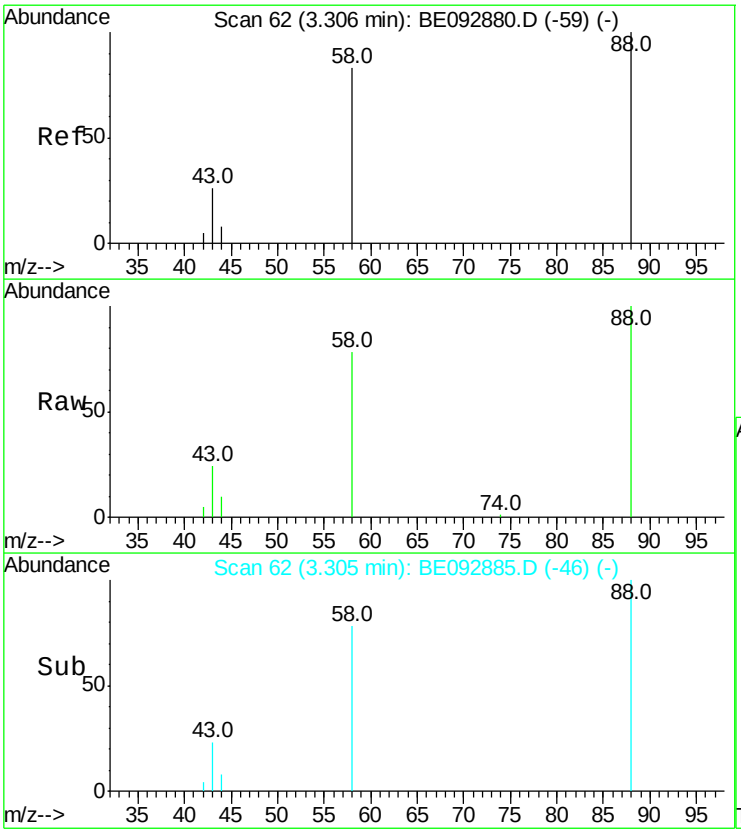

#1
1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 7.77 min Scan# 555
Delta R.T. -0.02 min
Lab File: BE092885.D
Acq: 4 Apr 2017 15:23

**Instrument :**
BNA_E
**ClientSampleId :**
SSTDICC010

Tgt Ion:152 Resp: 8082

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 175.9 | 106.0 | 159.0# |
| 115 | 83.9 | 31.2 | 46.8# |

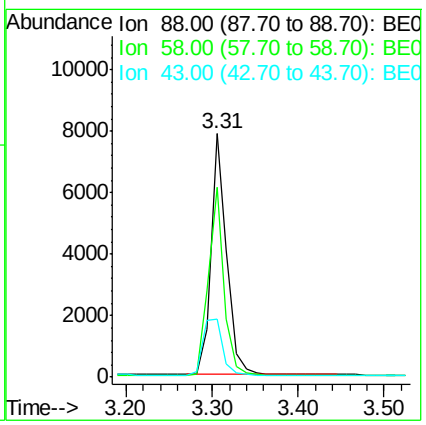


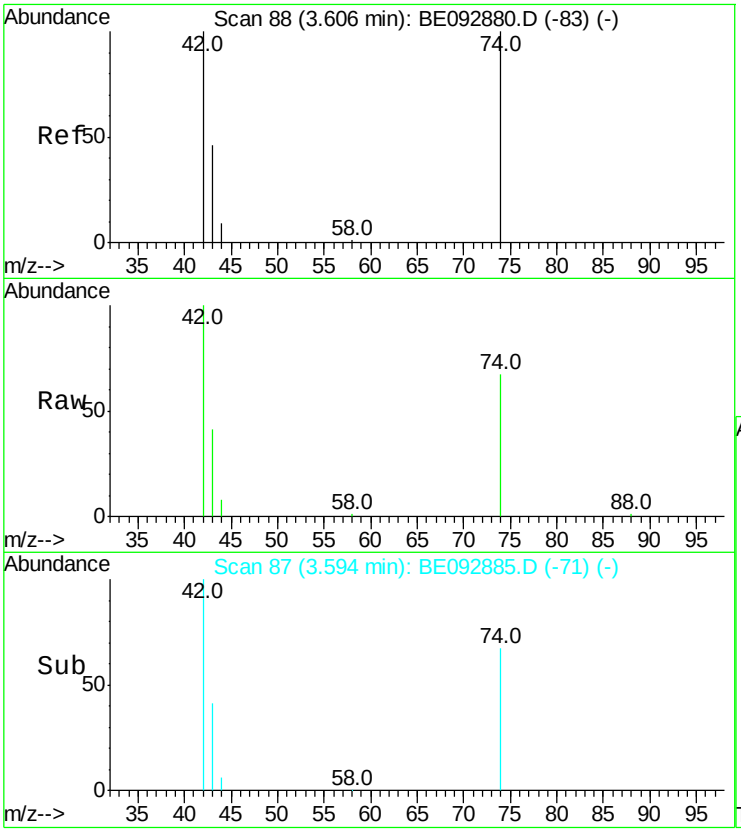




#2
1,4-Dioxane
Concen: 9.22 ng
RT: 3.31 min Scan# 62
Delta R.T. -0.01 min
Lab File: BE092885.D
Acq: 4 Apr 2017 15:23

Tgt Ion: 88 Resp: 9964

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 78.3 | 63.6 | 95.4 |
| 43 | 29.4 | 28.0 | 42.0 |

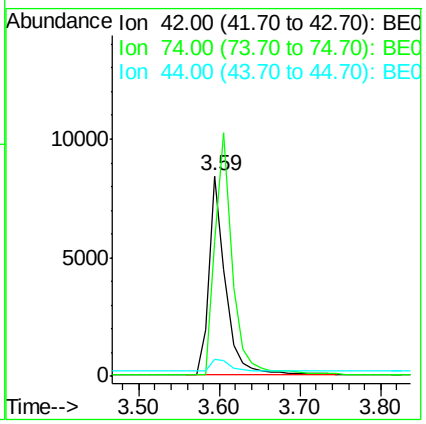




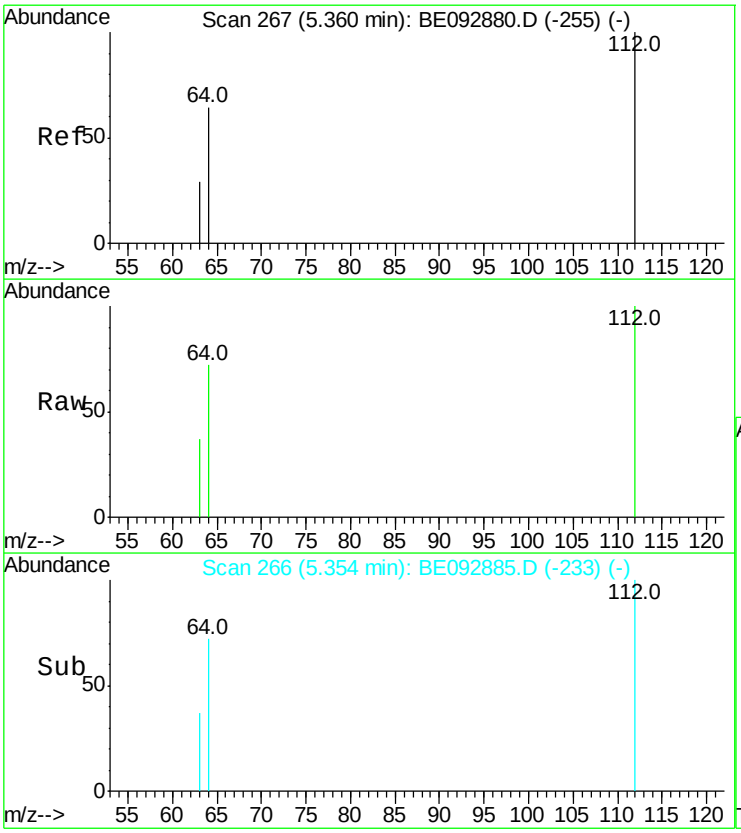

#3
n-Nitrosodimethylamine
Concen: 10.85 ng
RT: 3.59 min Scan# 87
Delta R.T. -0.01 min
Lab File: BE092885.D
Acq: 4 Apr 2017 15:23

Tgt Ion: 42 Resp: 12114

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 128.1 | 86.0 | 129.0 |
| 44 | 6.8 | 5.1 | 7.7 |



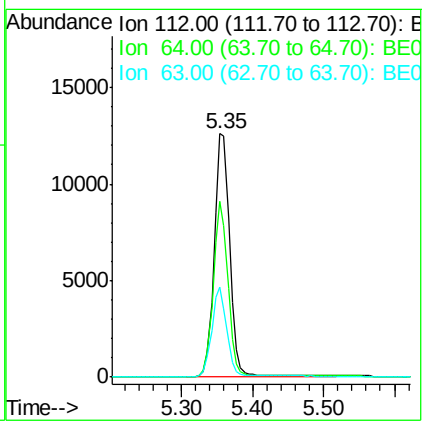

**Instrument :**
BNA_E
**ClientSampleId :**
SSTDICC010

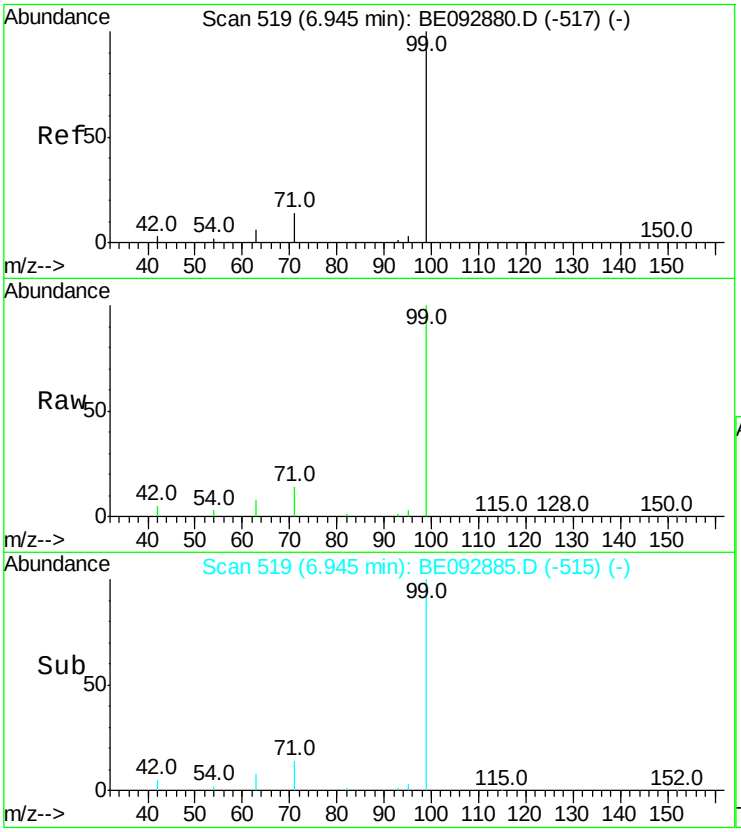



#4
2-Fluorophenol
Concen: 9.98 ng
RT: 5.35 min Scan# 266
Delta R.T. -0.01 min
Lab File: BE092885.D
Acq: 4 Apr 2017 15:23

Tgt Ion:112 Resp: 18782

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 69.0 | 53.5 | 80.3 |
| 63 | 35.5 | 27.9 | 41.9 |



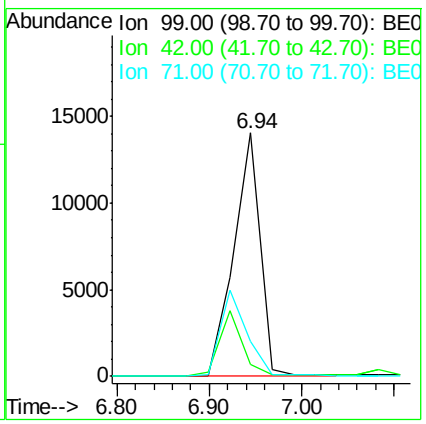


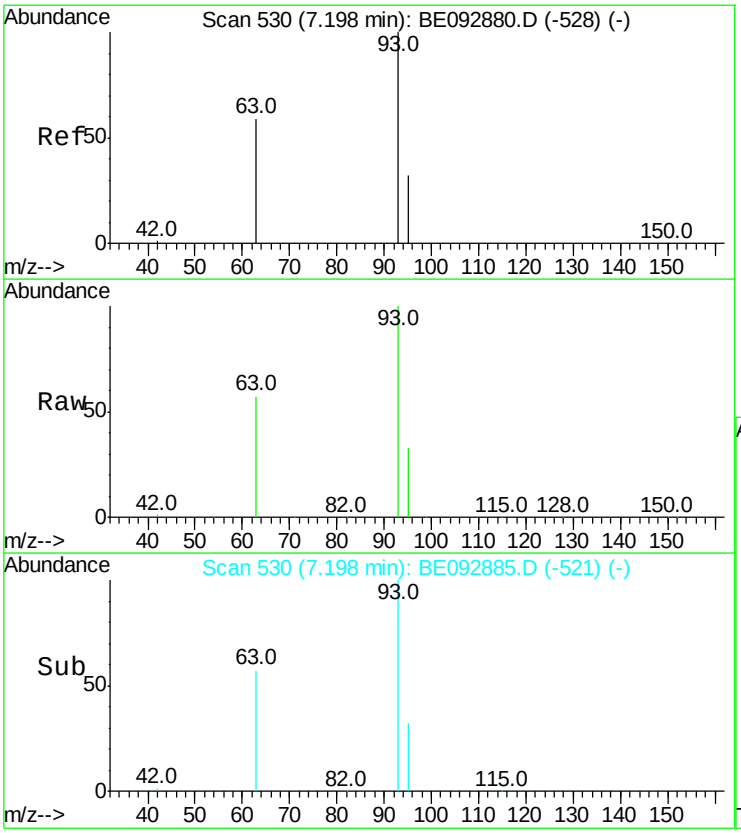

#5
Phenol-d6
Concen: 10.12 ng
RT: 6.94 min Scan# 519
Delta R.T. -0.00 min
Lab File: BE092885.D
Acq: 4 Apr 2017 15:23

**Instrument :**
BNA_E
**ClientSampleId :**
SSTDICC010

Tgt Ion: 99 Resp: 27934

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 0.0 | 16.0 | 24.0# |
| 71 | 0.0 | 30.6 | 45.8# |

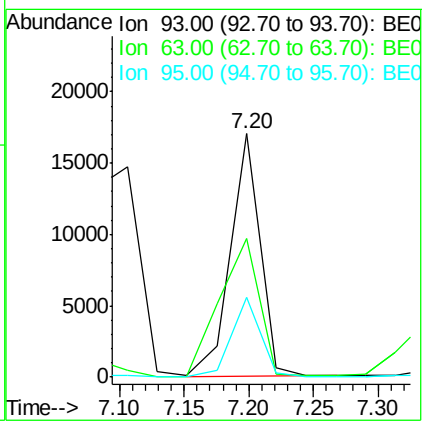


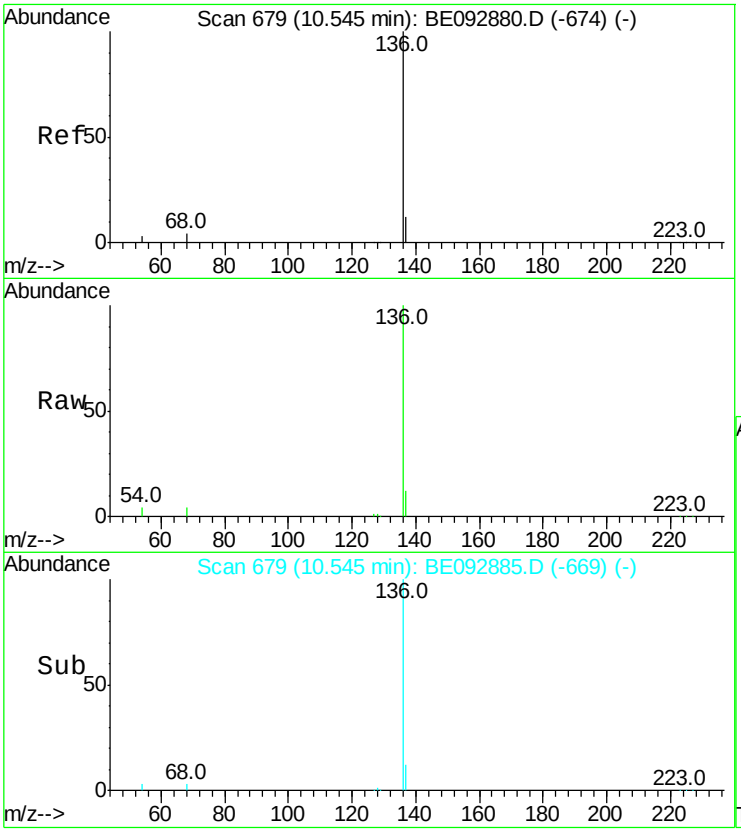




#6
bis(2-Chloroethyl)ether
Concen: 10.37 ng
RT: 7.20 min Scan# 530
Delta R.T. -0.00 min
Lab File: BE092885.D
Acq: 4 Apr 2017 15:23

Tgt Ion: 93 Resp: 27253

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 75.7 | 16.0 | 24.0# |
| 95 | 31.5 | 24.0 | 36.0 |



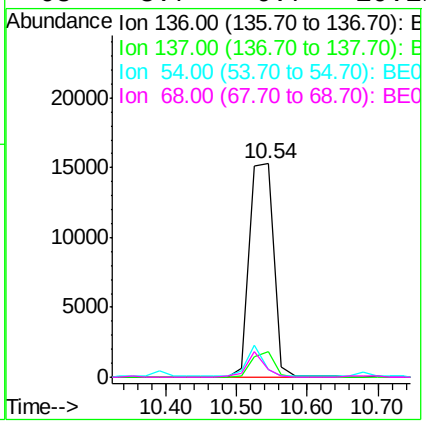


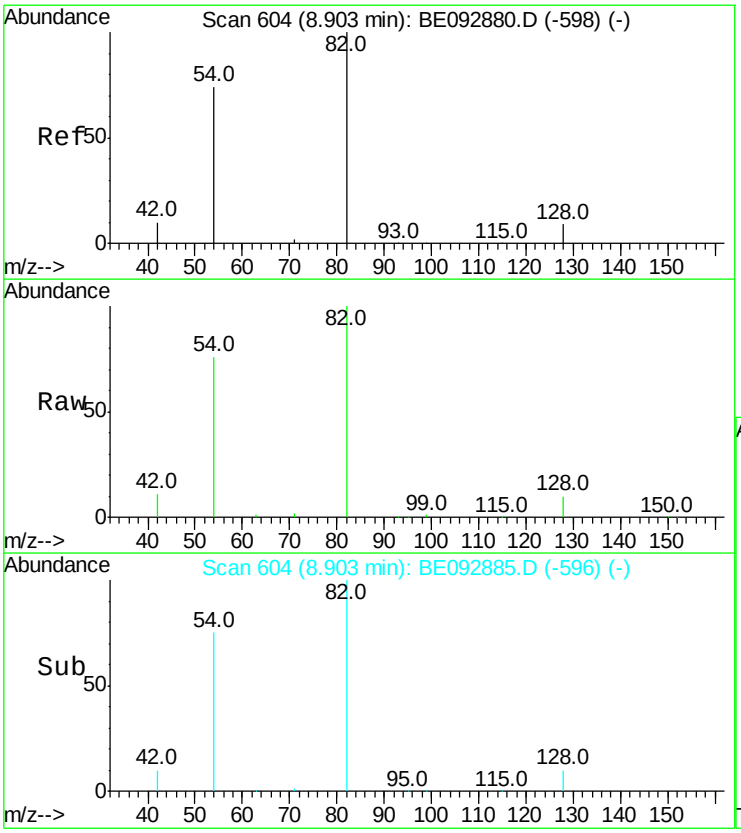

#7
Naphthalene-d8
Concen: 5.00 ng
RT: 10.54 min Scan# 679
Delta R.T. 0.00 min
Lab File: BE092885.D
Acq: 4 Apr 2017 15:23

**Instrument :**
BNA_E
**ClientSampleId :**
SSTDICC010

Tgt Ion:136 Resp: 36528

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 12.2 | 8.2 | 12.4 |
| 54 | 3.5 | 9.6 | 14.4# |
| 68 | 3.7 | 6.7 | 10.1# |

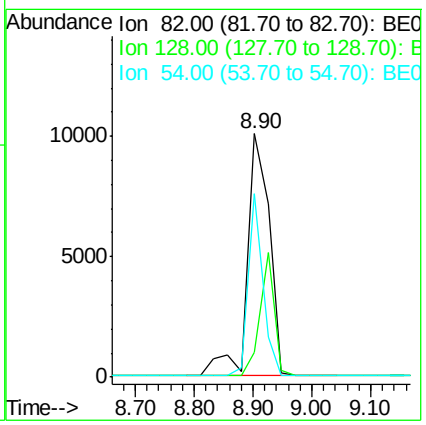


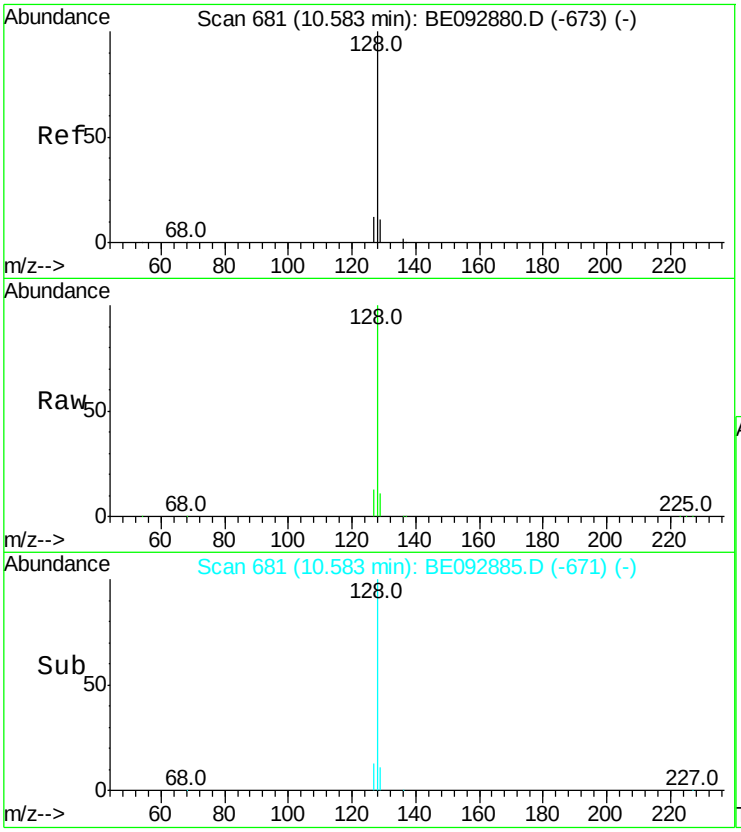




#8
Nitrobenzene-d5
Concen: 12.60 ng
RT: 8.90 min Scan# 604
Delta R.T. -0.02 min
Lab File: BE092885.D
Acq: 4 Apr 2017 15:23

Tgt Ion: 82 Resp: 26431

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 10.2 | 39.0 | 58.4# |
| 54 | 75.6 | 44.8 | 67.2# |



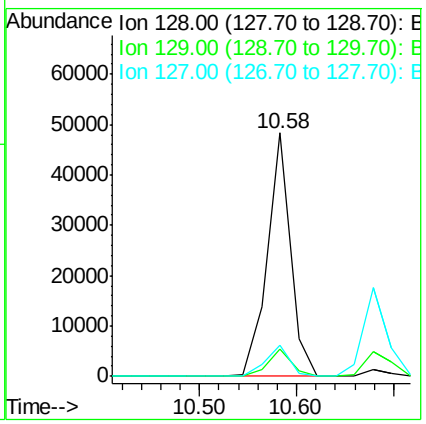


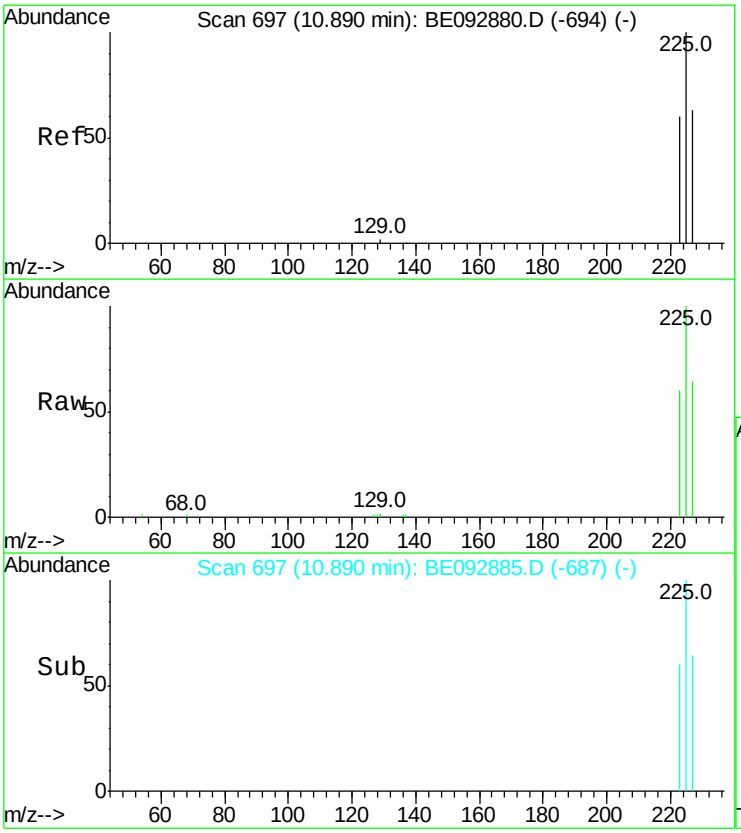

#9
Naphthalene
Concen: 10.07 ng
RT: 10.58 min Scan# 681
Delta R.T. 0.00 min
Lab File: BE092885.D
Acq: 4 Apr 2017 15:23

**Instrument :**
BNA_E
**ClientSampleId :**
SSTDICC010

Tgt Ion:128 Resp: 80566

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.2 | 11.2 | 16.8# |
| 127 | 12.6 | 11.6 | 17.4 |

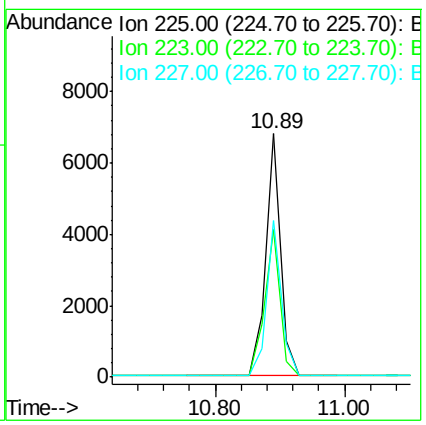


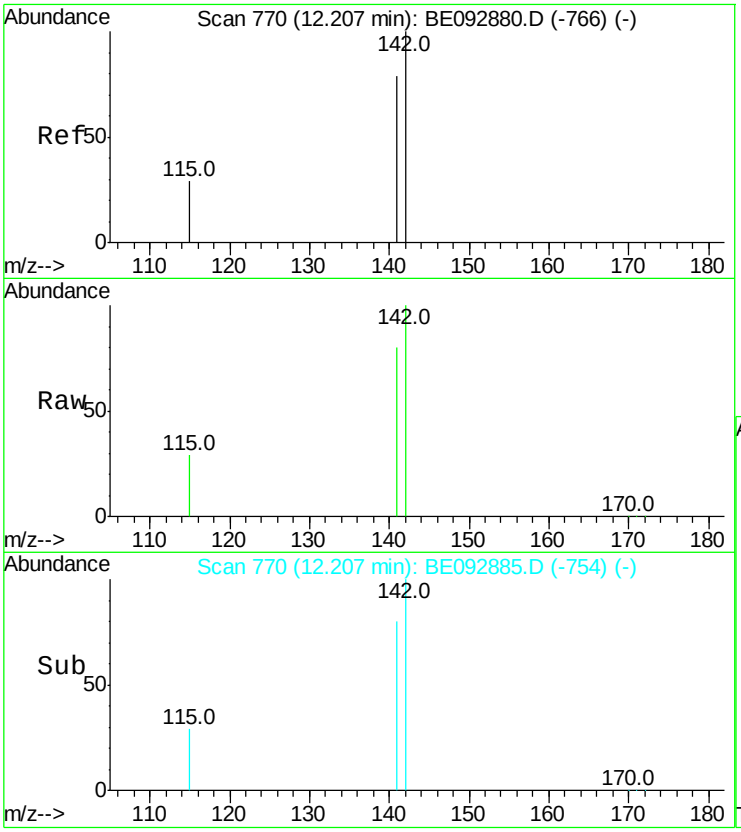




#10
Hexachlorobutadiene
Concen: 10.16 ng
RT: 10.89 min Scan# 697
Delta R.T. 0.00 min
Lab File: BE092885.D
Acq: 4 Apr 2017 15:23

Tgt Ion:225 Resp: 10893

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.9 | 50.6 | 76.0 |
| 227 | 63.9 | 51.4 | 77.0 |



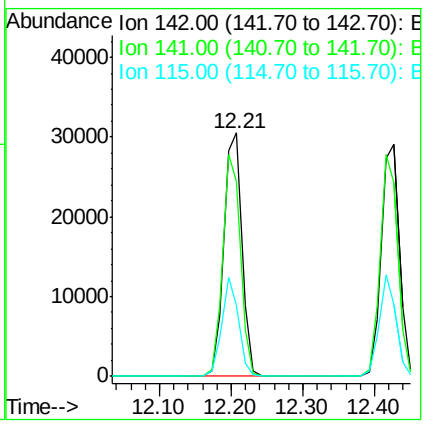


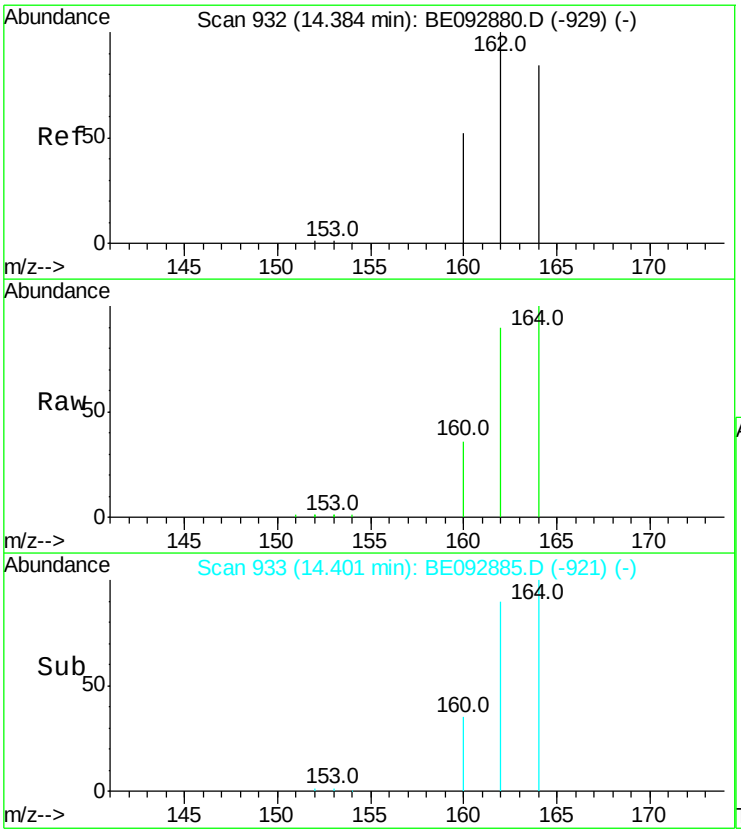

#11
2-Methylnaphthalene
Concen: 10.48 ng
RT: 12.21 min Scan# 770
Delta R.T. -0.00 min
Lab File: BE092885.D
Acq: 4 Apr 2017 15:23

**Instrument :**
BNA_E
**ClientSampleId :**
SSTDICC010

Tgt Ion:142 Resp: 53195

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 80.1 | 73.7 | 110.5 |
| 115 | 29.2 | 34.0 | 51.0# |

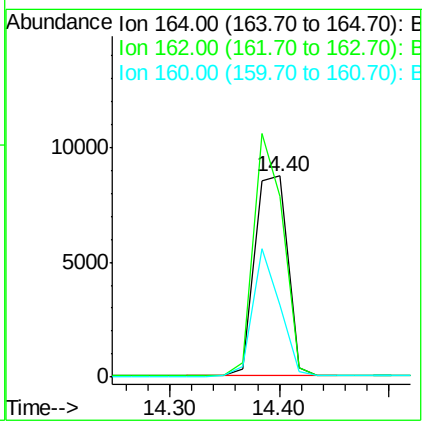


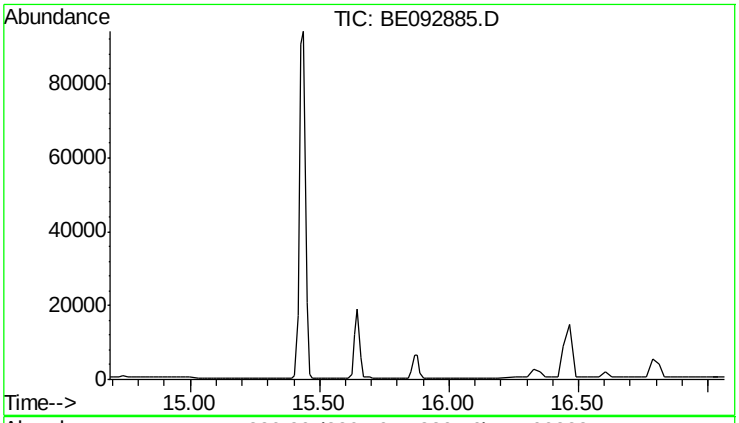



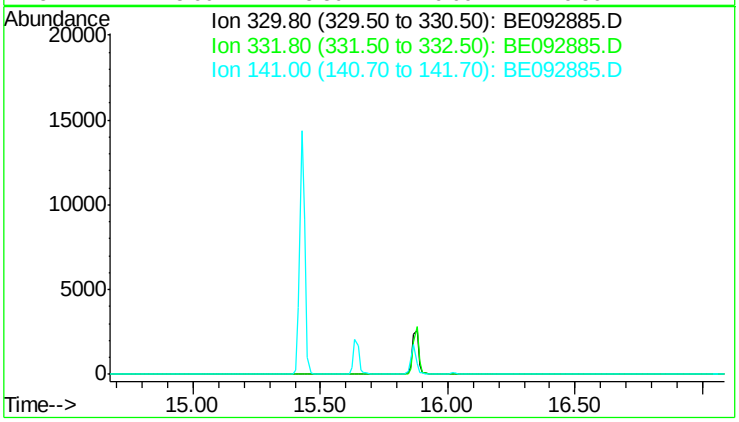

#12
Acenaphthene-d10
Concen: 5.00 ng
RT: 14.40 min Scan# 933
Delta R.T. 0.00 min
Lab File: BE092885.D
Acq: 4 Apr 2017 15:23

Tgt Ion:164 Resp: 18320

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 89.7 | 71.4 | 107.0 |
| 160 | 35.7 | 27.4 | 41.2 |






#13
2,4,6-Tribromophenol
Concen: 0.00 ng
Expected RT: 15.88 min

Lab File: BE092885.D
Acq: 4 Apr 2017 15:23

Tgt Ion: 330

| Sig | Exp Ratio |
|---|---|
| 330 | 100 |
| 332 | 94.2 |
| 141 | 38.8 |

**Instrument :**
BNA_E
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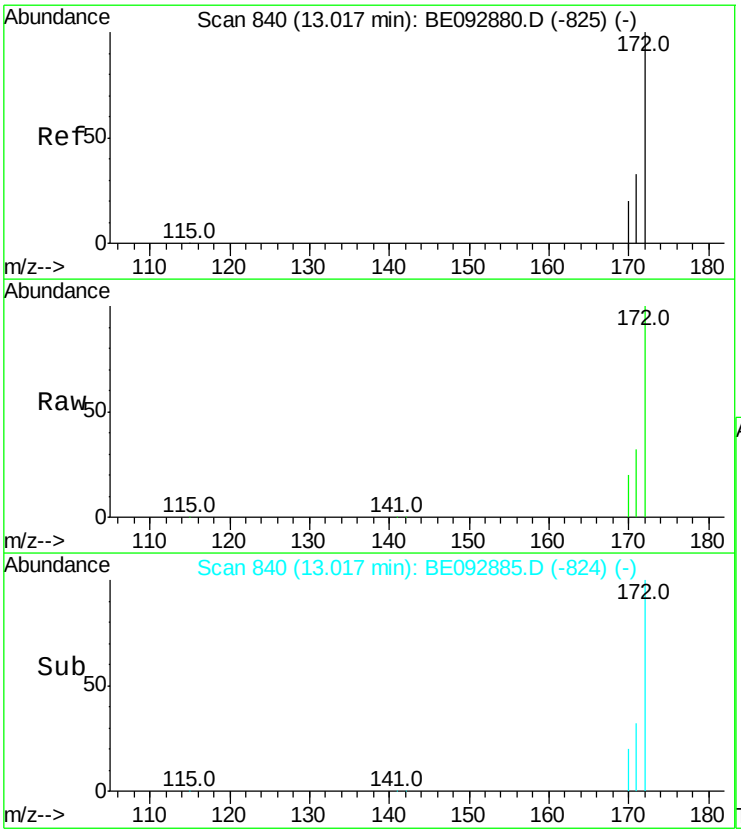
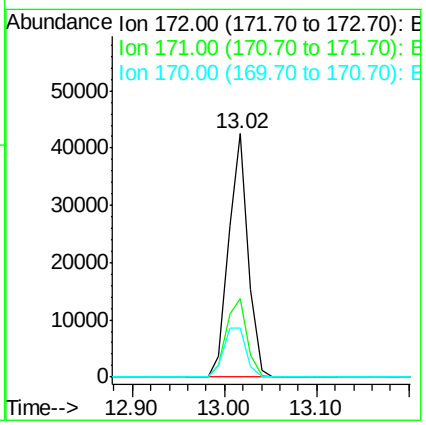
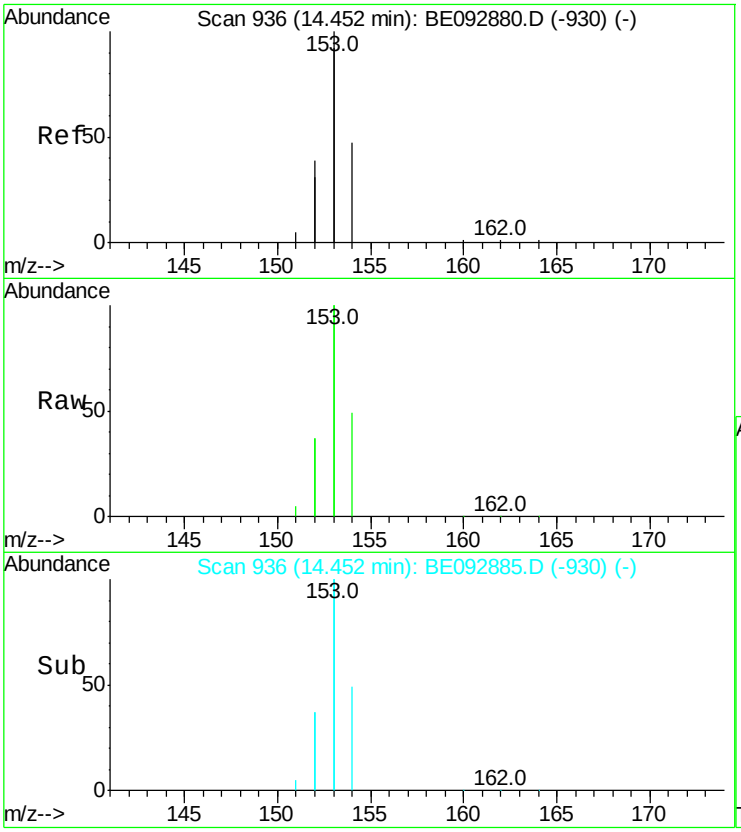



#14
2-Fluorobiphenyl
Concen: 10.25 ng
RT: 13.02 min Scan# 840
Delta R.T. -0.01 min
Lab File: BE092885.D
Acq: 4 Apr 2017 15:23

Tgt Ion:172 Resp: 61912

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 32.4 | 30.1 | 45.1 |
| 170 | 20.1 | 21.8 | 32.6# |



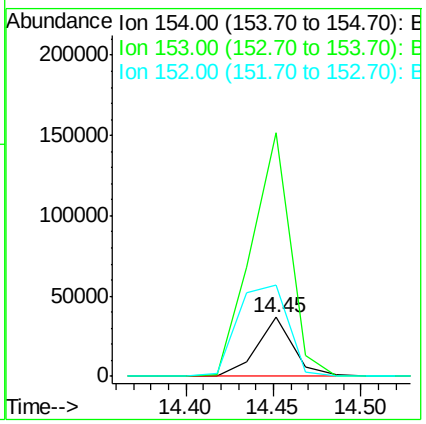


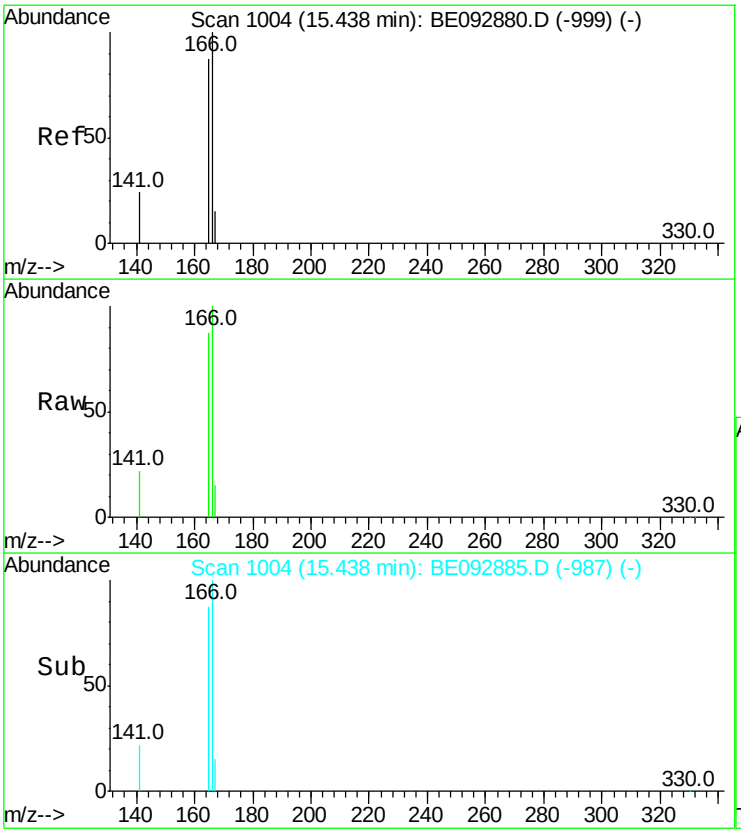

#16
Acenaphthene
Concen: 10.85 ng
RT: 14.45 min Scan# 936
Delta R.T. 0.00 min
Lab File: BE092885.D
Acq: 4 Apr 2017 15:23

**Instrument :**
BNA_E
**ClientSampleId :**
SSTDICC010

Tgt Ion:154 Resp: 54328

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 439.1 | 350.8 | 526.2 |
| 152 | 212.7 | 171.1 | 256.7 |

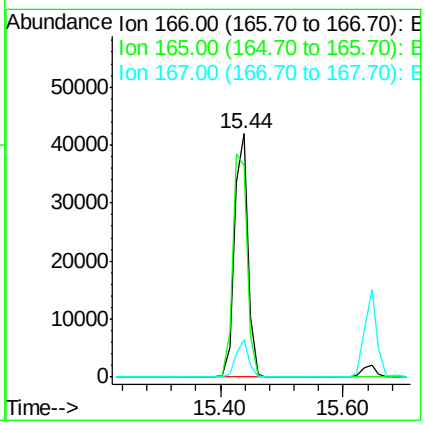


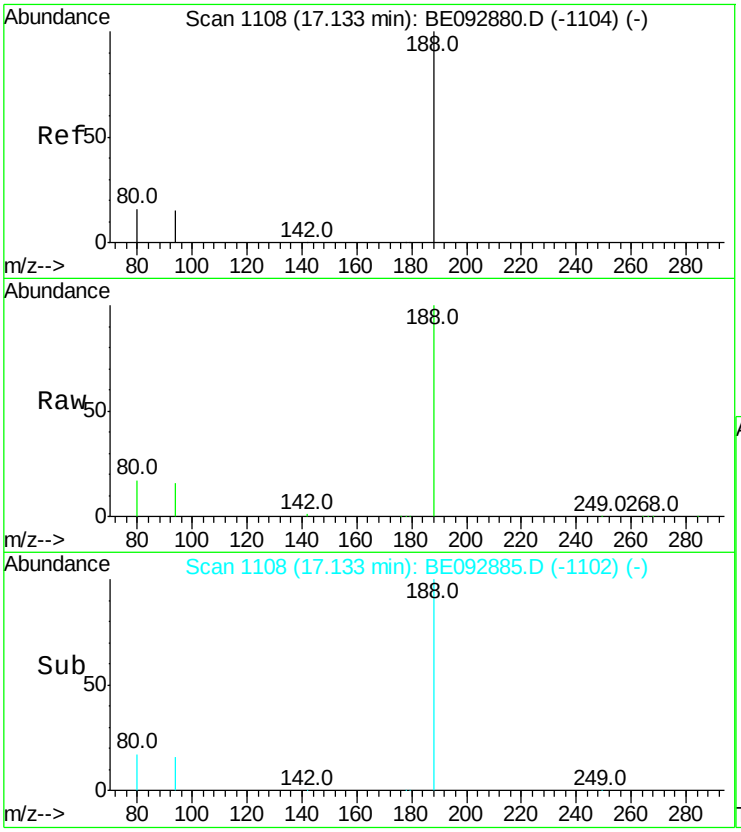




#17
Fluorene
Concen: 10.71 ng
RT: 15.44 min Scan# 1004
Delta R.T. 0.00 min
Lab File: BE092885.D
Acq: 4 Apr 2017 15:23

Tgt Ion:166 Resp: 63949

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 98.1 | 78.2 | 117.4 |
| 167 | 14.2 | 11.0 | 16.4 |



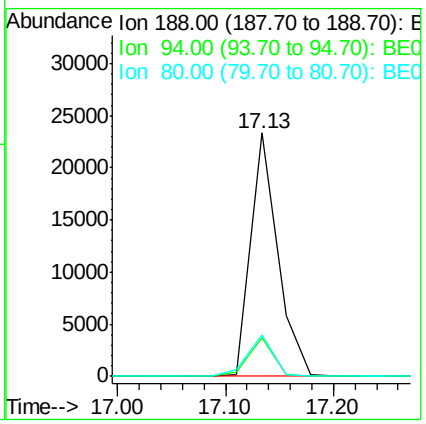


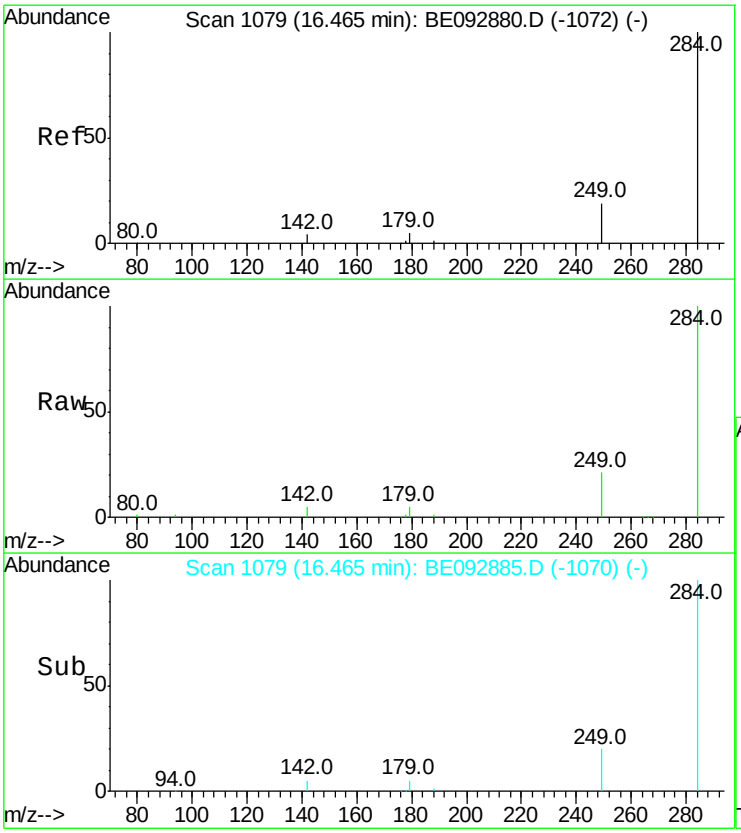

#18
Phenanthrene-d10
Concen: 5.00 ng
RT: 17.13 min Scan# 1108
Delta R.T. -0.02 min
Lab File: BE092885.D
Acq: 4 Apr 2017 15:23

**Instrument :**
BNA_E
**ClientSampleId :**
SSTDICC010

Tgt Ion:188 Resp: 40622

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 15.9 | 3.2 | 4.8# |
| 80 | 16.9 | 2.6 | 3.8# |

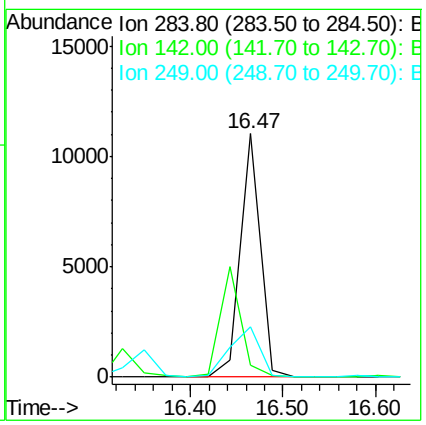


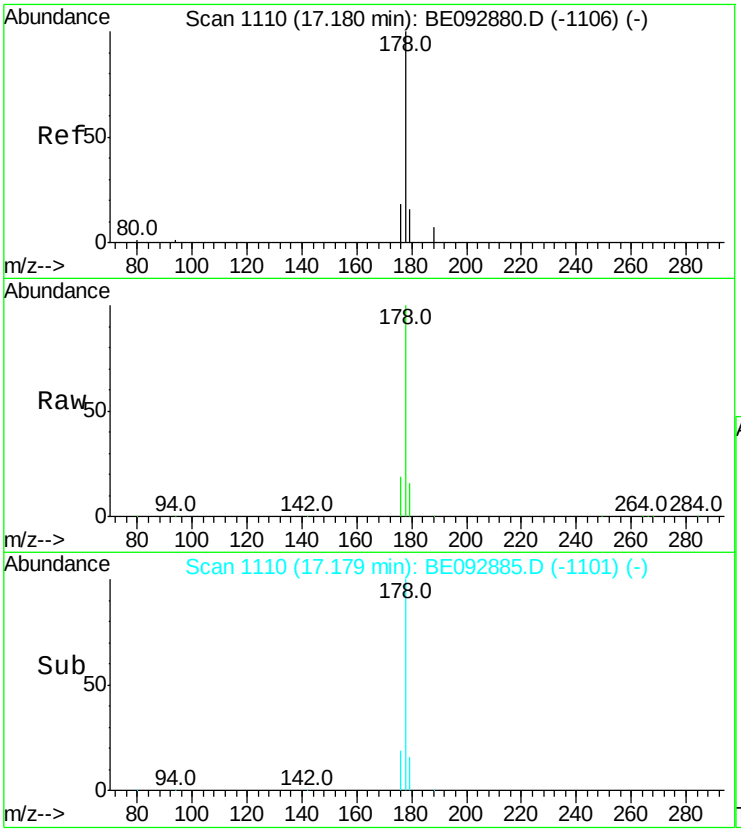




#19
Hexachlorobenzene
Concen: 10.99 ng
RT: 16.47 min Scan# 1079
Delta R.T. -0.00 min
Lab File: BE092885.D
Acq: 4 Apr 2017 15:23

Tgt Ion:284 Resp: 16557

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 0.0 | 29.1 | 43.7# |
| 249 | 29.9 | 27.9 | 41.9 |



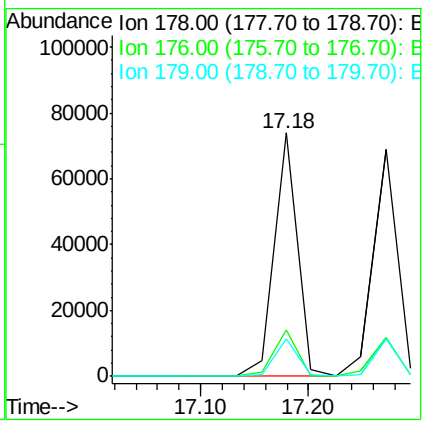


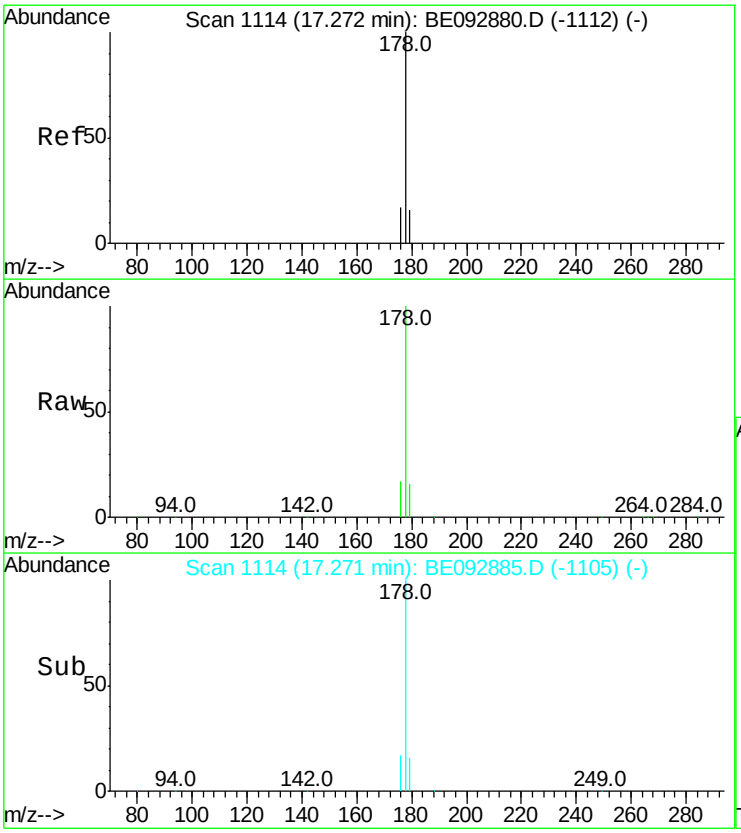

#21
Phenanthrene
Concen: 11.30 ng
RT: 17.18 min Scan# 1110
Delta R.T. -0.00 min
Lab File: BE092885.D
Acq: 4 Apr 2017 15:23

**Instrument :**
BNA_E
**ClientSampleId :**
SSTDICC010

Tgt Ion:178 Resp: 111698

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.4 | 15.8 | 23.8 |
| 179 | 15.5 | 16.0 | 24.0# |

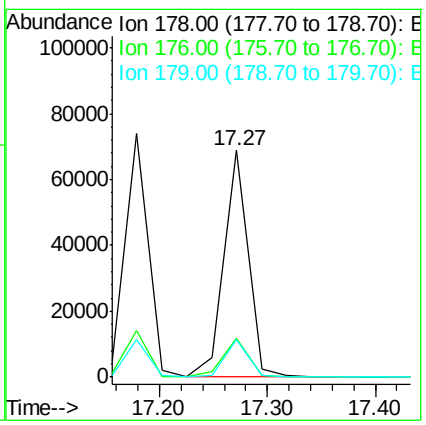


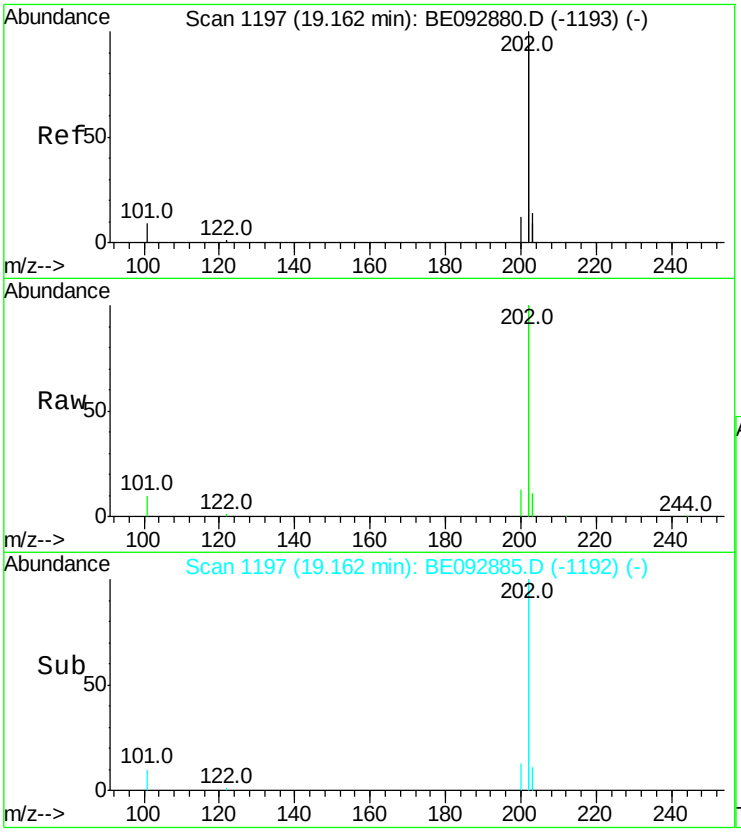




#22
Anthracene
Concen: 11.89 ng
RT: 17.27 min Scan# 1114
Delta R.T. -0.00 min
Lab File: BE092885.D
Acq: 4 Apr 2017 15:23

Tgt Ion:178 Resp: 106807

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 17.9 | 15.0 | 22.4 |
| 179 | 16.0 | 12.2 | 18.2 |



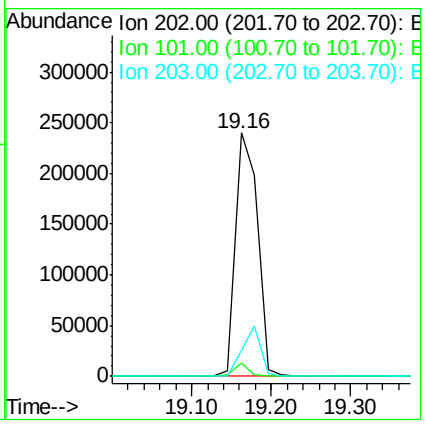


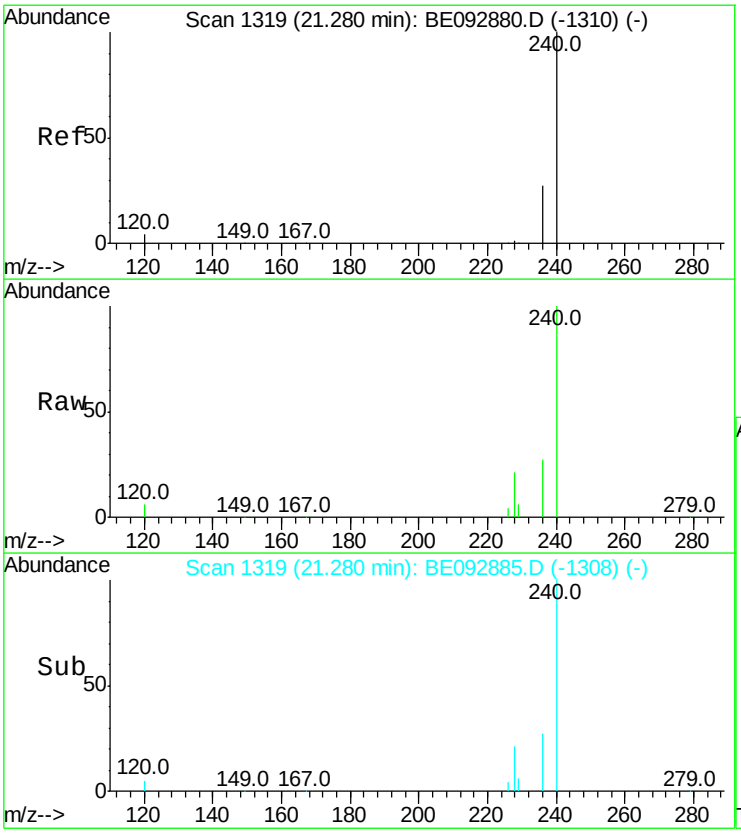

#23
Fluoranthene
Concen: 10.22 ng
RT: 19.16 min Scan# 1197
Delta R.T. -0.02 min
Lab File: BE092885.D
Acq: 4 Apr 2017 15:23

**Instrument :**
BNA_E
**ClientSampleId :**
SSTDICC010

Tgt Ion:202 Resp: 464750

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 3.5 | 2.2 | 3.4# |
| 203 | 17.5 | 13.7 | 20.5 |

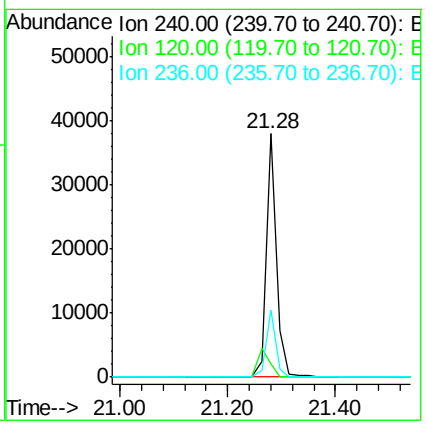


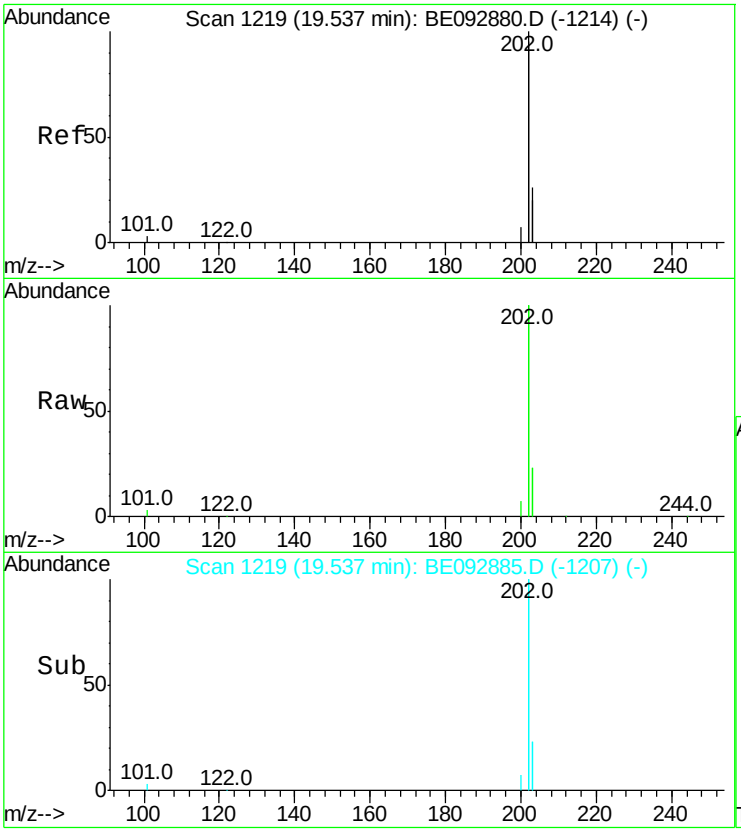




#24
Chrysene-d12
Concen: 5.00 ng
RT: 21.28 min Scan# 1319
Delta R.T. -0.02 min
Lab File: BE092885.D
Acq: 4 Apr 2017 15:23

Tgt Ion:240 Resp: 50354

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 5.6 | 2.6 | 4.0# |
| 236 | 27.4 | 24.6 | 37.0 |



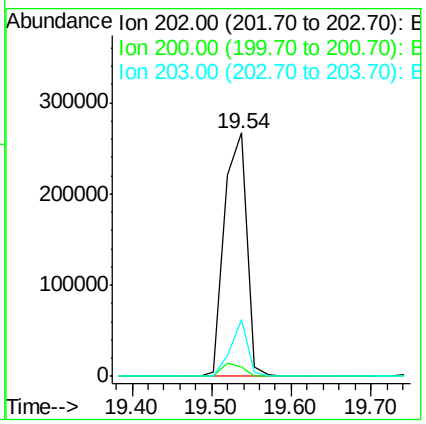


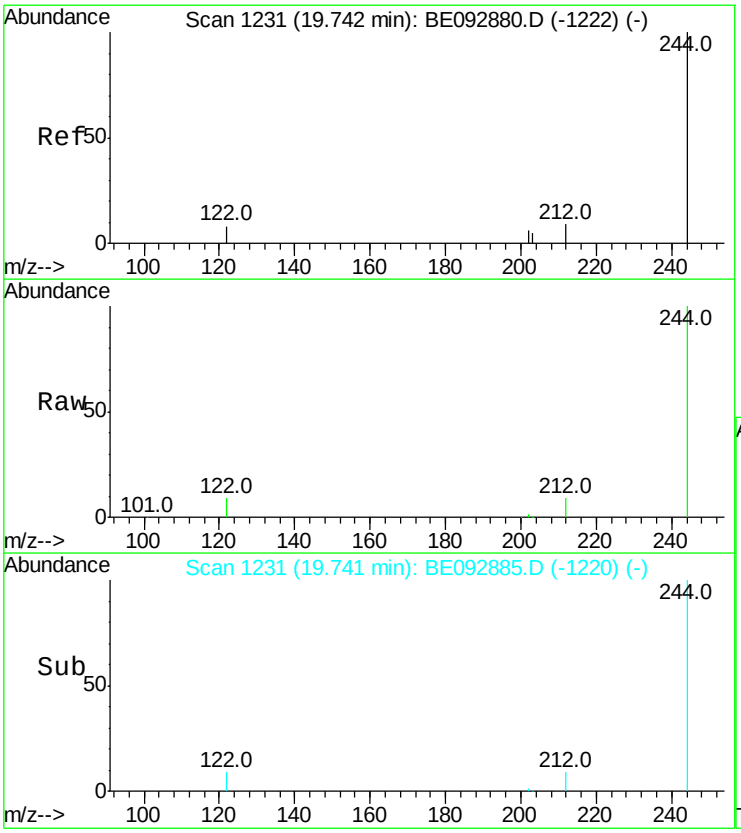

#25
Pyrene
Concen: 10.30 ng
RT: 19.54 min Scan# 1219
Delta R.T. 0.00 min
Lab File: BE092885.D
Acq: 4 Apr 2017 15:23

**Instrument :**
BNA_E
**ClientSampleId :**
SSTDICC010

Tgt Ion:202 Resp: 515921

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 5.0 | 4.2 | 6.4 |
| 203 | 17.9 | 13.9 | 20.9 |

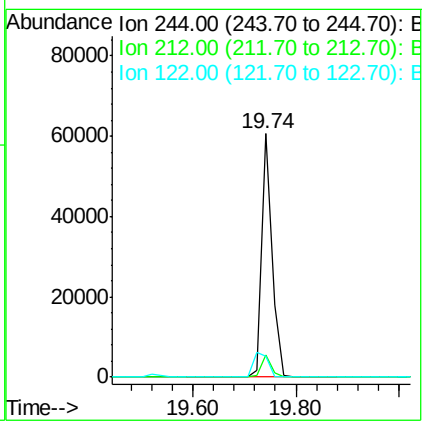


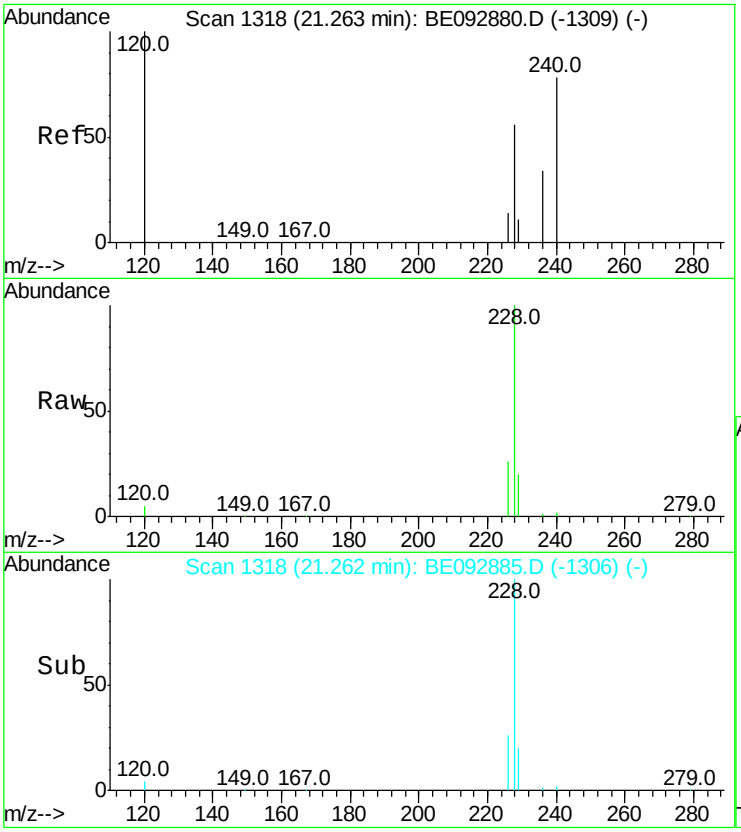




#26
Terphenyl-d14
Concen: 9.53 ng
RT: 19.74 min Scan# 1231
Delta R.T. -0.02 min
Lab File: BE092885.D
Acq: 4 Apr 2017 15:23

Tgt Ion:244 Resp: 82956

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 9.2 | 6.7 | 10.1 |
| 122 | 8.7 | 3.6 | 5.4# |



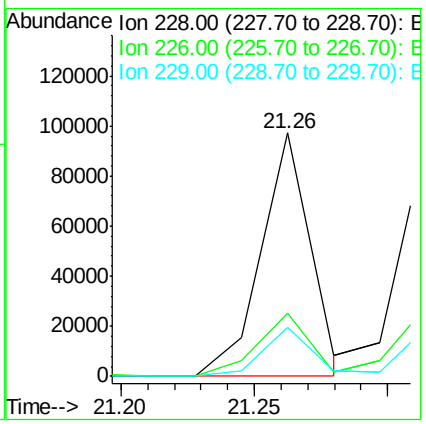


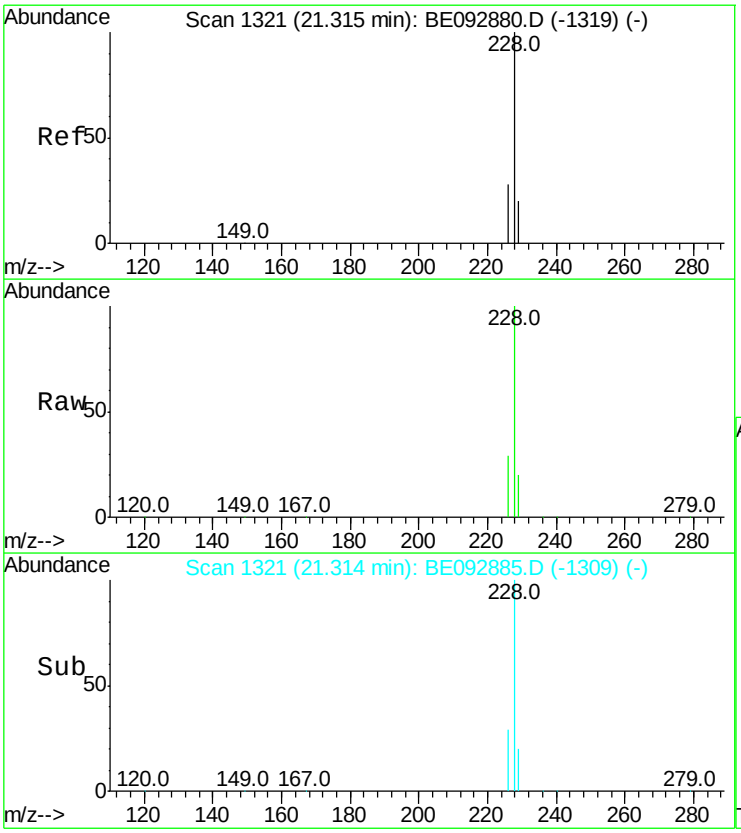

#27
Benzo(a)anthracene
Concen: 10.52 ng m
RT: 21.26 min Scan# 1318
Delta R.T. 0.00 min
Lab File: BE092885.D
Acq: 4 Apr 2017 15:23

**Instrument :**
BNA_E
**ClientSampleId :**
SSTDICC010

Tgt Ion:228 Resp: 125522

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 25.8 | 23.6 | 35.4 |
| 229 | 20.2 | 13.3 | 19.9# |

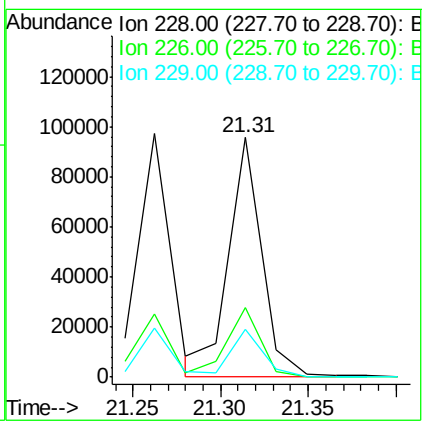


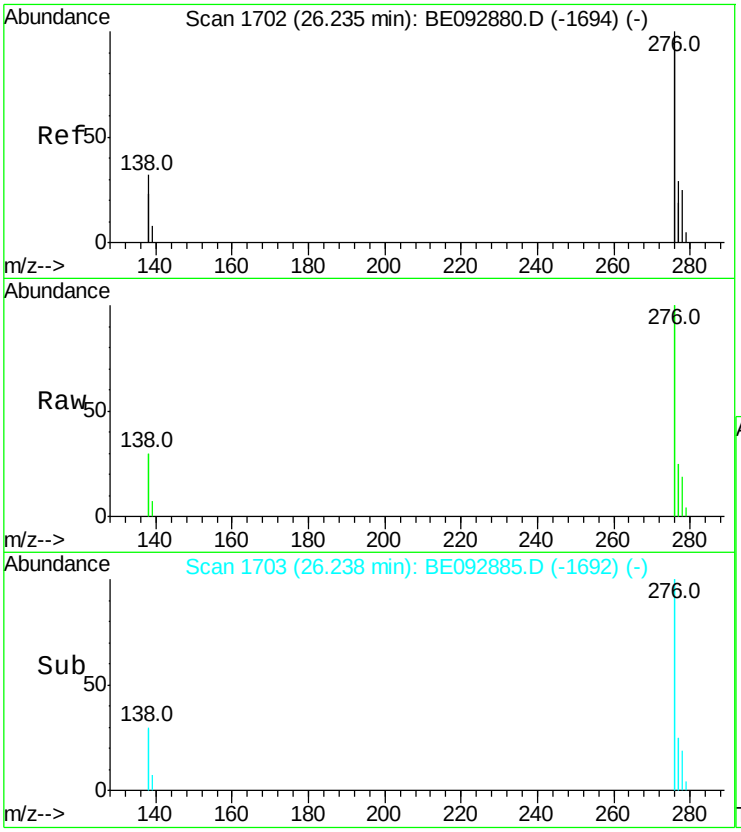




#28
Chrysene
Concen: 10.04 ng m
RT: 21.31 min Scan# 1321
Delta R.T. 0.00 min
Lab File: BE092885.D
Acq: 4 Apr 2017 15:23

Tgt Ion:228 Resp: 126438

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 29.1 | 36.3 | 54.5# |
| 229 | 19.8 | 10.6 | 16.0# |



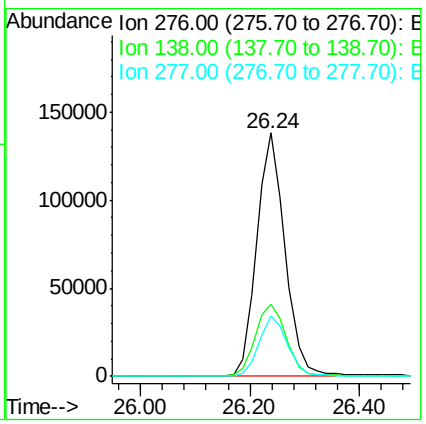


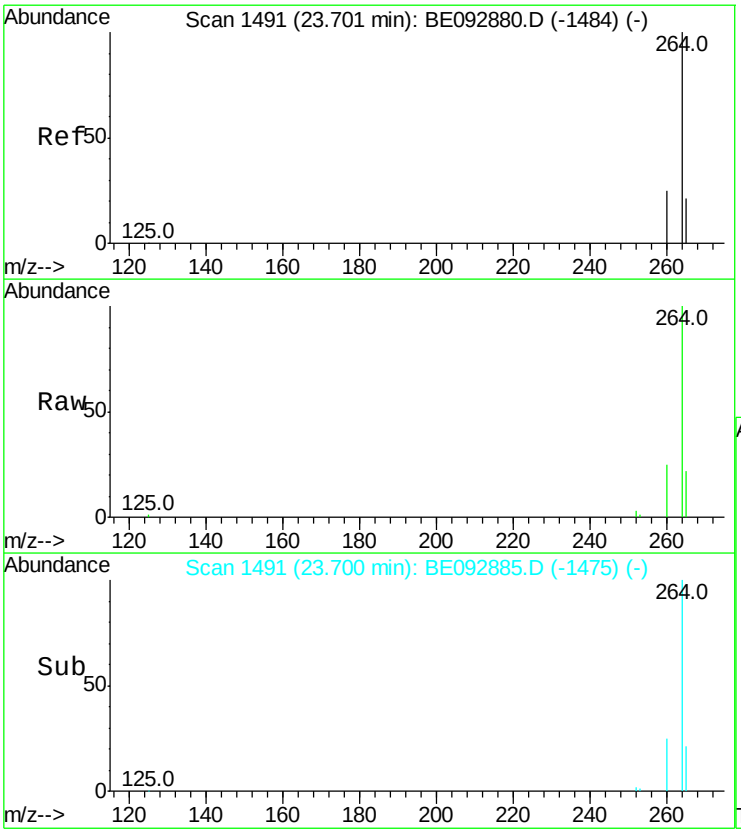

#30
Indeno(1,2,3-cd)pyrene
Concen: 10.44 ng
RT: 26.24 min Scan# 1703
Delta R.T. -0.01 min
Lab File: BE092885.D
Acq: 4 Apr 2017 15:23

**Instrument :**
BNA_E
**ClientSampleId :**
SSTDICC010

Tgt Ion:276 Resp: 494222

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 32.2 | 20.3 | 30.5# |
| 277 | 25.0 | 19.7 | 29.5 |

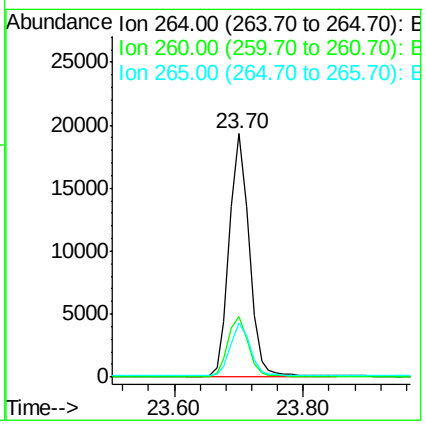


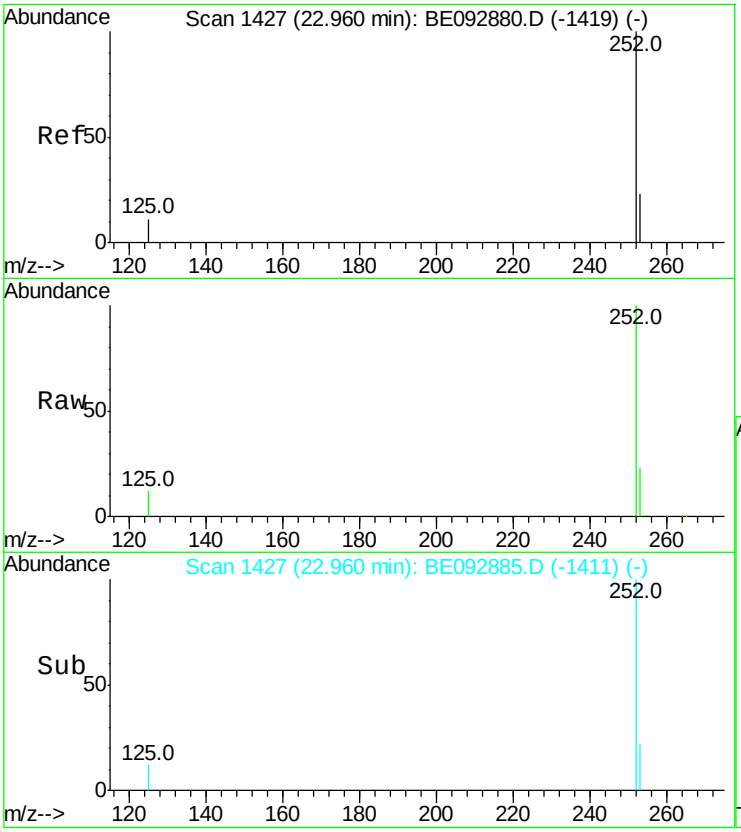




#31
Perylene-d12
Concen: 5.00 ng
RT: 23.70 min Scan# 1491
Delta R.T. -0.01 min
Lab File: BE092885.D
Acq: 4 Apr 2017 15:23

Tgt Ion:264 Resp: 41156

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 24.8 | 20.1 | 30.1 |
| 265 | 22.0 | 17.9 | 26.9 |



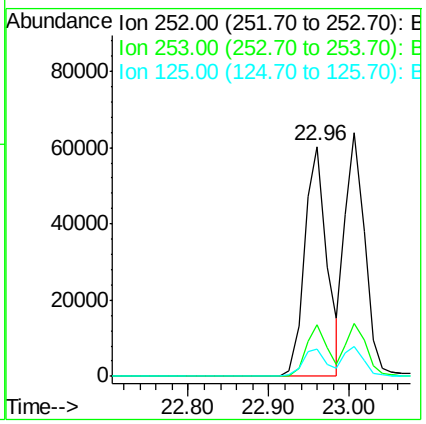


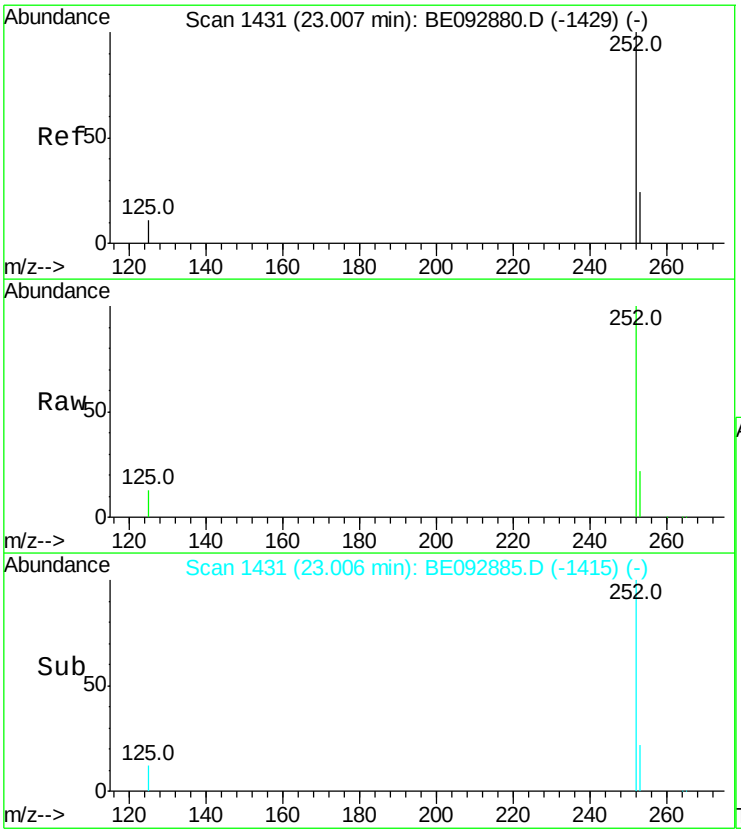

#32
Benzo(b)fluoranthene
Concen: 10.52 ng
RT: 22.96 min Scan# 1427
Delta R.T. -0.01 min
Lab File: BE092885.D
Acq: 4 Apr 2017 15:23

**Instrument :**
BNA_E
**ClientSampleId :**
SSTDICC010

Tgt Ion:252 Resp: 115217

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.5 | 18.7 | 28.1 |
| 125 | 11.9 | 10.5 | 15.7 |

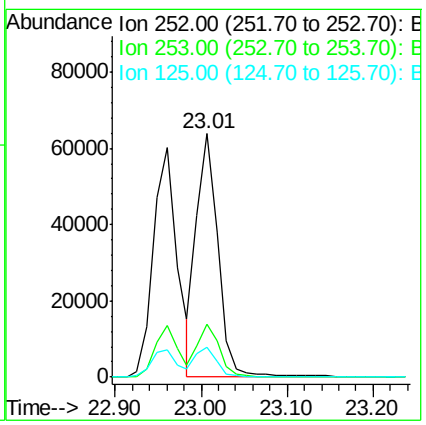


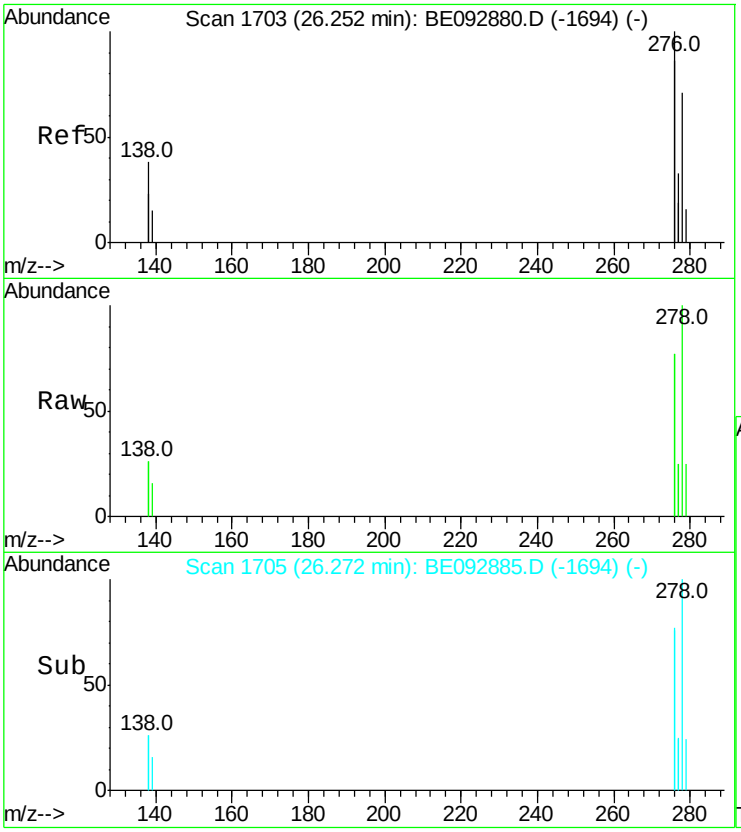




#33
Benzo(k)fluoranthene
Concen: 11.21 ng
RT: 23.01 min Scan# 1431
Delta R.T. -0.01 min
Lab File: BE092885.D
Acq: 4 Apr 2017 15:23

Tgt Ion:252 Resp: 109935

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.9 | 20.3 | 30.5 |
| 125 | 12.5 | 9.6 | 14.4 |



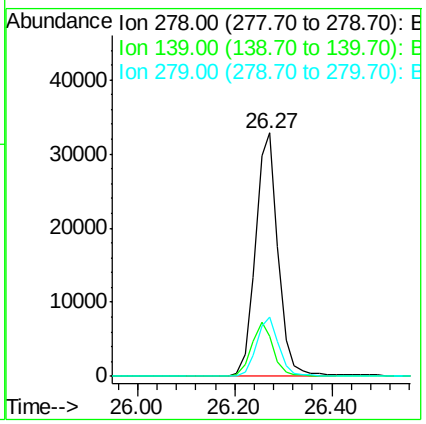


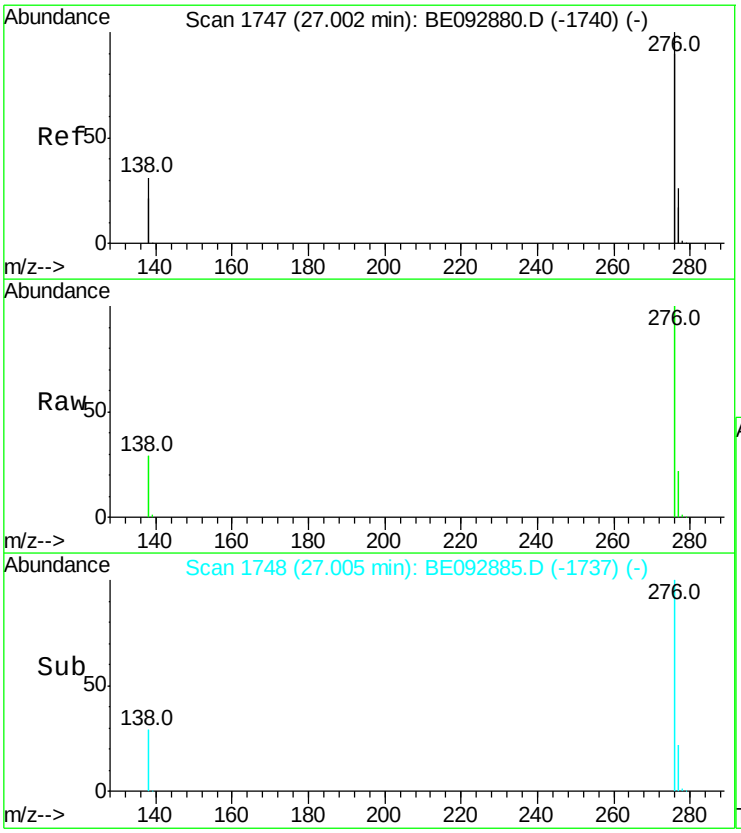

#35
Dibenzo(a,h)anthracene
Concen: 11.13 ng
RT: 26.27 min Scan# 1705
Delta R.T. -0.01 min
Lab File: BE092885.D
Acq: 4 Apr 2017 15:23

**Instrument :**
BNA_E
**ClientSampleId :**
SSTDICC010

Tgt Ion:278 Resp: 107149

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 16.4 | 13.8 | 20.8 |
| 279 | 24.5 | 21.4 | 32.2 |




#36
Benzo(g,h,i)perylene
Concen: 10.69 ng
RT: 27.00 min Scan# 1748
Delta R.T. -0.01 min
Lab File: BE092885.D
Acq: 4 Apr 2017 15:23

Tgt Ion:276 Resp: 426765

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 22.0 | 19.8 | 29.8 |
| 138 | 28.9 | 19.8 | 29.6 |