Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF021116\
Data File : BF085018.D
Acq On : 11 Feb 2016 14:53
Operator : SJ/IZ
Sample : H1361-02DL 10X
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** WC-1DL

**Manual Integrations APPROVED**
Sohil
2/12/2016 12:26:09 PM

Quant Time: Feb 11 17:55:15 2016
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF020116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Feb 10 13:28:51 2016
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 6.60 | 152 | 127372 | 20.00 | ng | | -0.02 |
| 21) Naphthalene-d8 | 7.90 | 136 | 557728 | 20.00 | ng | | -0.02 |
| 38) Acenaphthene-d10 | 9.64 | 164 | 261927 | 20.00 | ng | | -0.02 |
| 63) Phenanthrene-d10 | 11.12 | 188 | 441740 | 20.00 | ng | | -0.02 |
| 75) Chrysene-d12 | 13.76 | 240 | 294242 | 20.00 | ng | | -0.01 |
| 86) Perylene-d12 | 15.12 | 264 | 280134 | 20.00 | ng | | -0.01 |
| **System Monitoring Compounds** | | | | | | | |
| 5) 2-Fluorophenol | 5.19 | 112 | 139781 | 17.09 | ng | | -0.01 |
| 7) Phenol-d6 | 6.26 | 99 | 183773 | 18.13 | ng | | -0.02 |
| 23) Nitrobenzene-d5 | 7.18 | 82 | 121400 | 12.26 | ng | | -0.02 |
| 41) 2,4,6-Tribromophenol | 10.43 | 330 | 42030 | 15.38 | ng | | -0.02 |
| 44) 2-Fluorobiphenyl | 8.97 | 172 | 191330 | 8.57 | ng | | -0.02 |
| 78) Terphenyl-d14 | 12.71 | 244 | 151774 | 11.69 | ng | | -0.02 |
| **Target Compounds** | | | | | | | Qvalue |
| 51) Acenaphthene | 9.68 | 154 | 51990 | 3.06 | ng | | 93 |
| 57) Fluorene | 10.19 | 166 | 43029 | 2.48 | ng | | 97 |
| 70) Phenanthrene | 11.15 | 178 | 563212 | 22.99 | ng | | 99 |
| 71) Anthracene | 11.20 | 178 | 276722 | 11.21 | ng | | 98 |
| 72) Carbazole | 11.36 | 167 | 70780 | 3.29 | ng | | 97 |
| 74) Fluoranthene | 12.33 | 202 | 1334479 | 53.81 | ng | | 98 |
| 77) Pyrene | 12.56 | 202 | 1258355 | 55.86 | ng | | 99 |
| 80) Benzo(a)anthracene | 13.75 | 228 | 619487m | 33.92 | ng | | |
| 82) Chrysene | 13.78 | 228 | 527087m | 29.76 | ng | | |
| 85) Indeno(1,2,3-cd)pyrene | 16.37 | 276 | 226967 | 16.28 | ng | | 95 |
| 87) Benzo(b)fluoranthene | 14.75 | 252 | 605202m | 32.15 | ng | | |
| 88) Benzo(k)fluoranthene | 14.77 | 252 | 166118m | 10.67 | ng | | |
| 89) Benzo(a)pyrene | 15.06 | 252 | 393956 | 24.56 | ng | # | 94 |
| 90) Dibenzo(a,h)anthracene | 16.37 | 278 | 72299 | 5.36 | ng | # | 91 |
| 91) Benzo(g,h,i)perylene | 16.73 | 276 | 203537 | 14.97 | ng | | 98 |

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

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF021116\
Data File : BF085018.D
Acq On : 11 Feb 2016 14:53
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Sample : H1361-02DL 10X
Misc :
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Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
WC-1DL

**Manual Integrations APPROVED**
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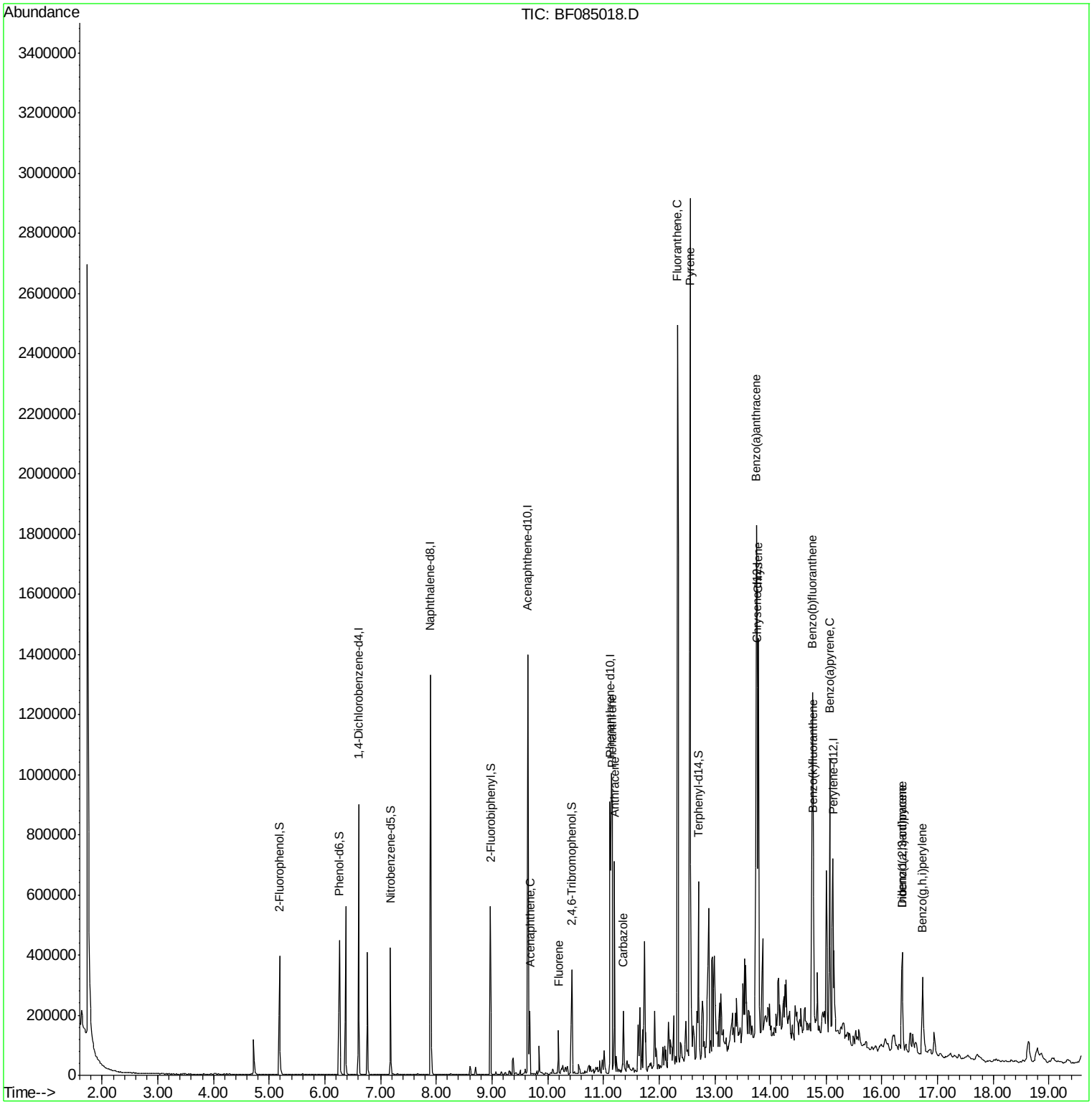
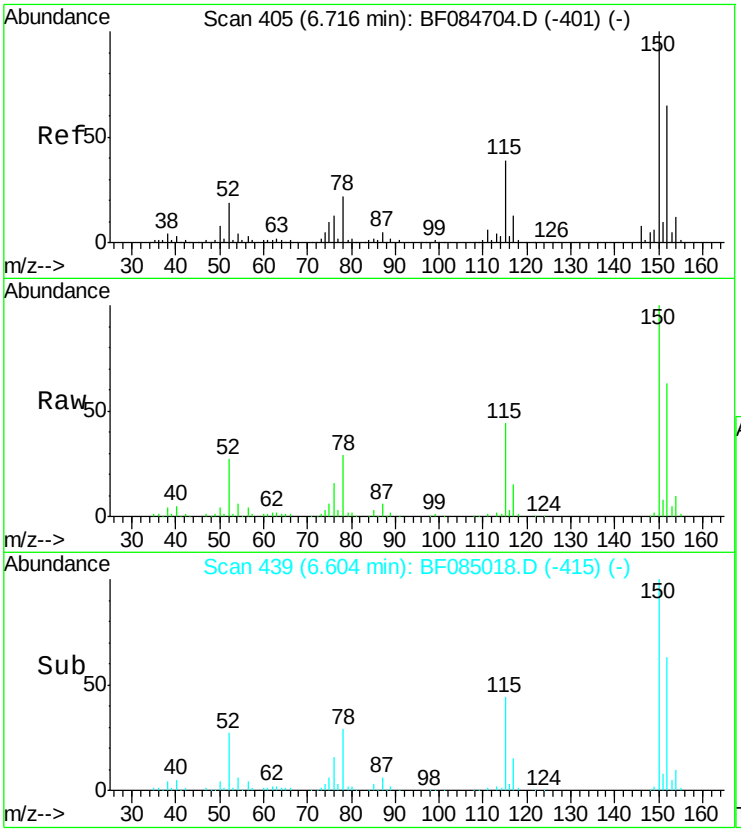
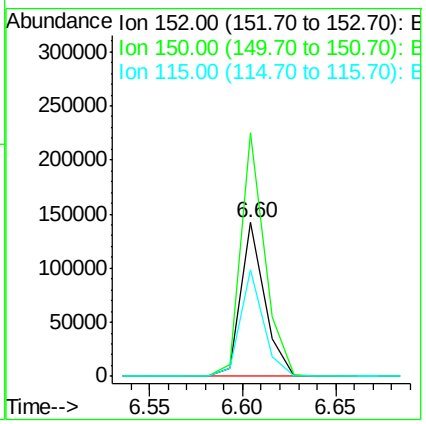





#1
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.60 min Scan# 439
Delta R.T. -0.02 min
Lab File: BF085018.D
Acq: 11 Feb 2016 14:53

Tgt Ion:152 Resp: 127372

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 158.4 | 123.0 | 184.4 |
| 115 | 69.4 | 51.4 | 77.2 |




**Instrument :**
BNA_F
**ClientSampleId :**
WC-1DL

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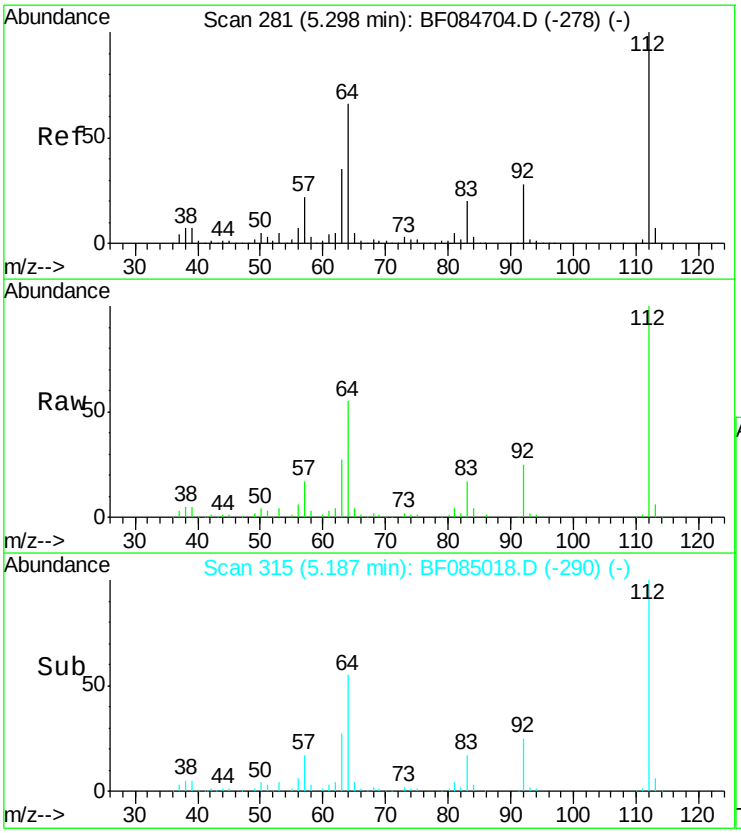
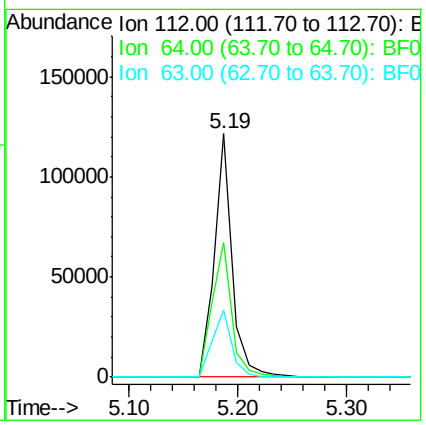
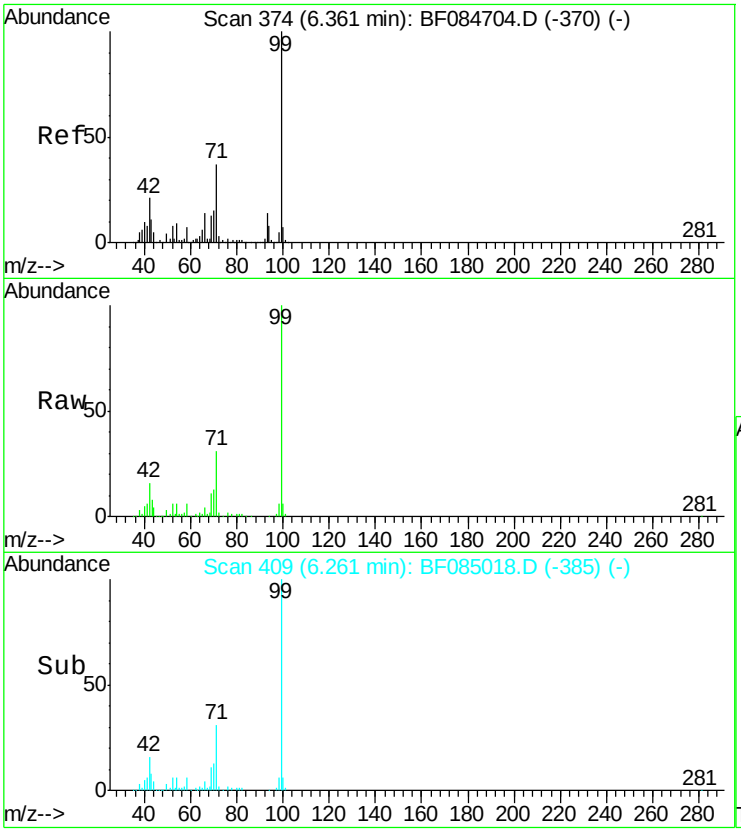



#5
2-Fluorophenol
Concen: 17.09 ng
RT: 5.19 min Scan# 315
Delta R.T. -0.01 min
Lab File: BF085018.D
Acq: 11 Feb 2016 14:53

Tgt Ion:112 Resp: 139781

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 55.5 | 36.6 | 55.0# |
| 63 | 27.3 | 19.4 | 29.0 |

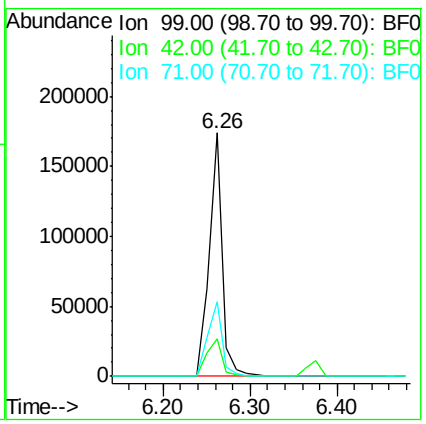





#7
Phenol-d6
Concen: 18.13 ng
RT: 6.26 min Scan# 409
Delta R.T. -0.02 min
Lab File: BF085018.D
Acq: 11 Feb 2016 14:53

Tgt Ion: 99 Resp: 183773

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 15.7 | 12.8 | 19.2 |
| 71 | 30.7 | 30.9 | 46.3# |




**Instrument :**
BNA_F
**ClientSampleId :**
WC-1DL

**Manual Integrations APPROVED**
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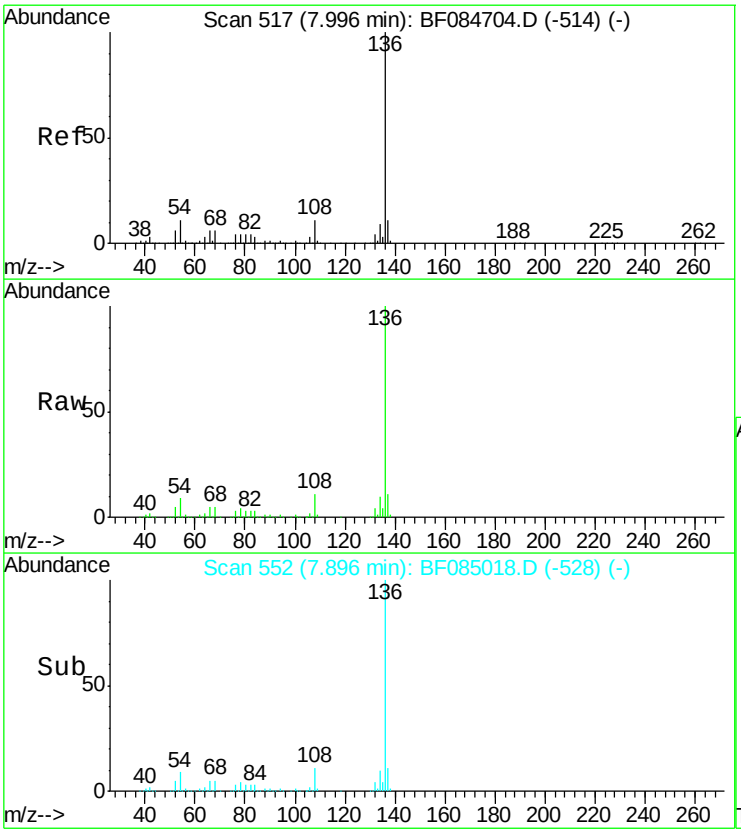
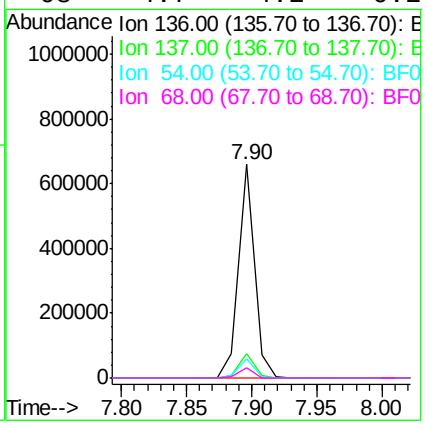
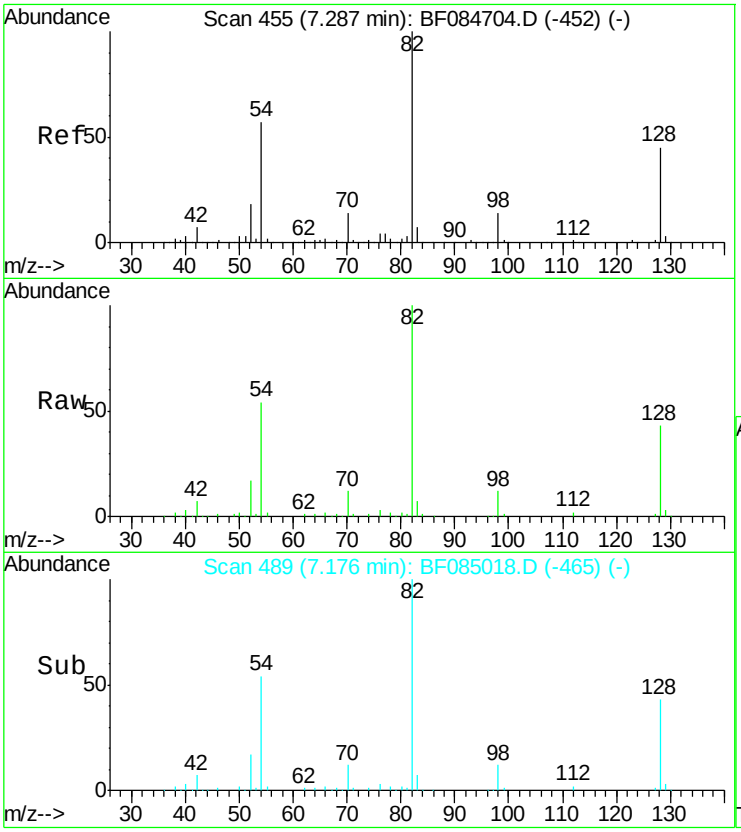



#21
Naphthalene-d8
Concen: 20.00 ng
RT: 7.90 min Scan# 552
Delta R.T. -0.02 min
Lab File: BF085018.D
Acq: 11 Feb 2016 14:53

Tgt Ion:136 Resp: 557728

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.3 | 8.7 | 13.1 |
| 54 | 8.9 | 5.8 | 8.8# |
| 68 | 4.7 | 4.2 | 6.2 |

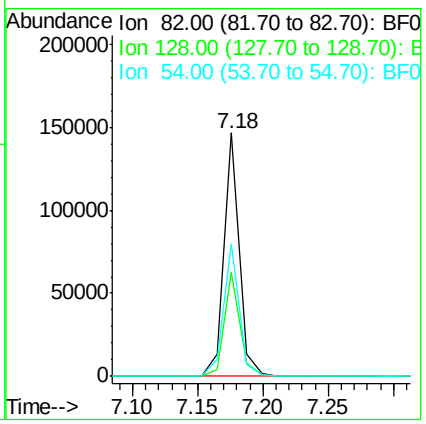





#23
Nitrobenzene-d5
Concen: 12.26 ng
RT: 7.18 min Scan# 489
Delta R.T. -0.02 min
Lab File: BF085018.D
Acq: 11 Feb 2016 14:53

Tgt Ion: 82 Resp: 121400

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 42.7 | 34.6 | 51.8 |
| 54 | 54.2 | 38.4 | 57.6 |




**Instrument :**
BNA_F
**ClientSampleId :**
WC-1DL

**Manual Integrations APPROVED**
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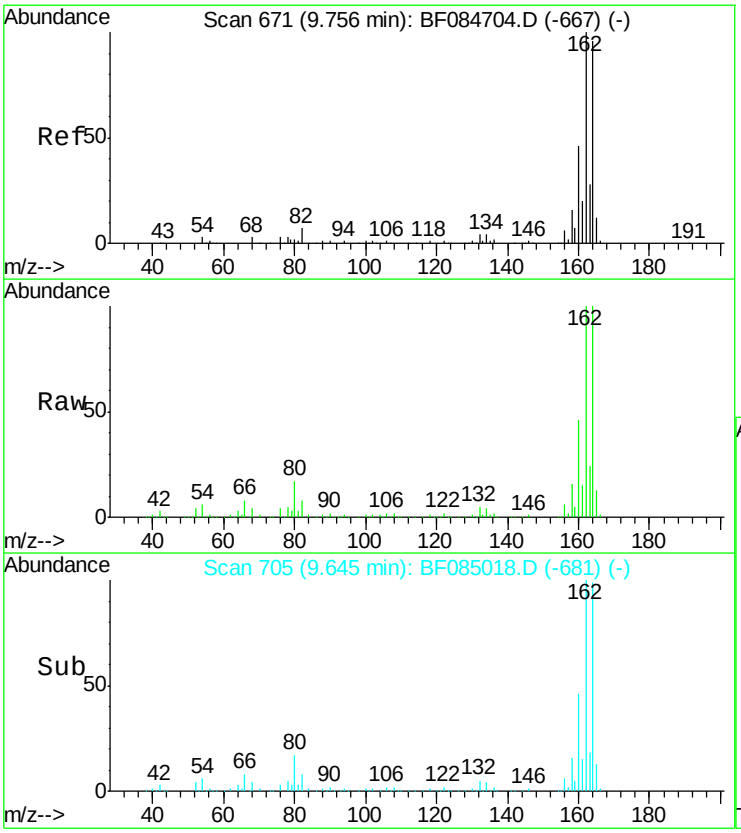
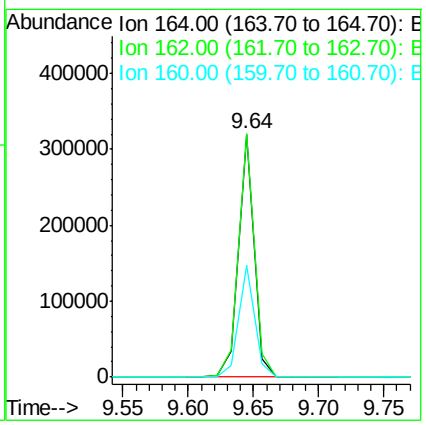
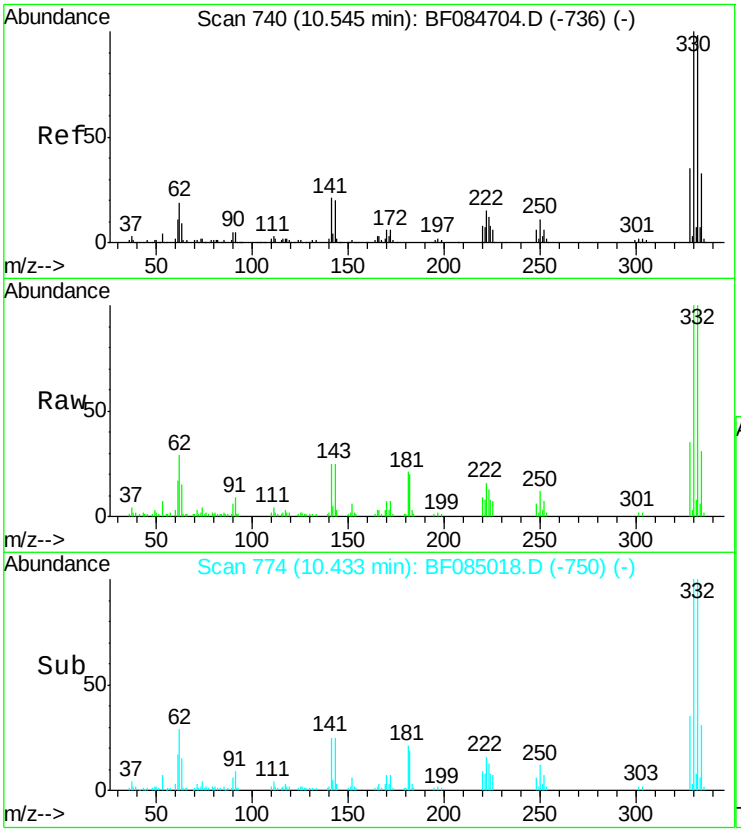



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.64 min Scan# 705
Delta R.T. -0.02 min
Lab File: BF085018.D
Acq: 11 Feb 2016 14:53

Tgt Ion:164 Resp: 261927

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 100.3 | 85.1 | 127.7 |
| 160 | 45.9 | 37.5 | 56.3 |

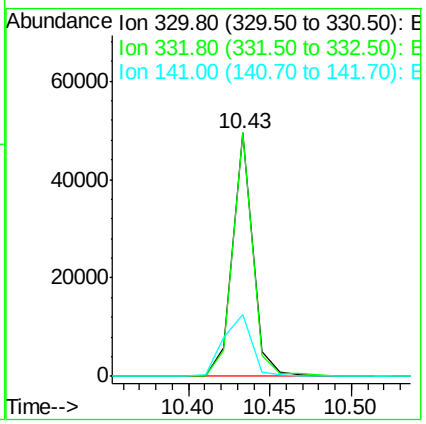





#41
2,4,6-Tribromophenol
Concen: 15.38 ng
RT: 10.43 min Scan# 774
Delta R.T. -0.02 min
Lab File: BF085018.D
Acq: 11 Feb 2016 14:53

Tgt Ion:330 Resp: 42030

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 98.8 | 76.6 | 114.8 |
| 141 | 36.0 | 27.8 | 41.6 |




**Instrument :**
BNA_F
**ClientSampleId :**
WC-1DL

**Manual Integrations APPROVED**
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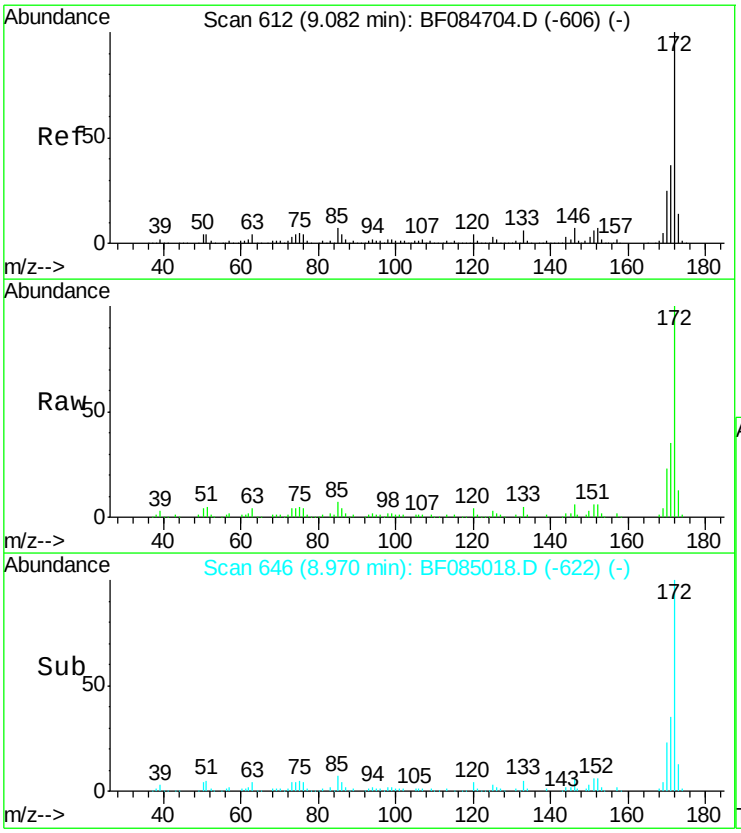
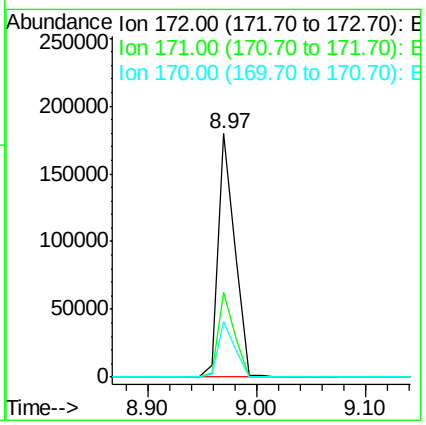
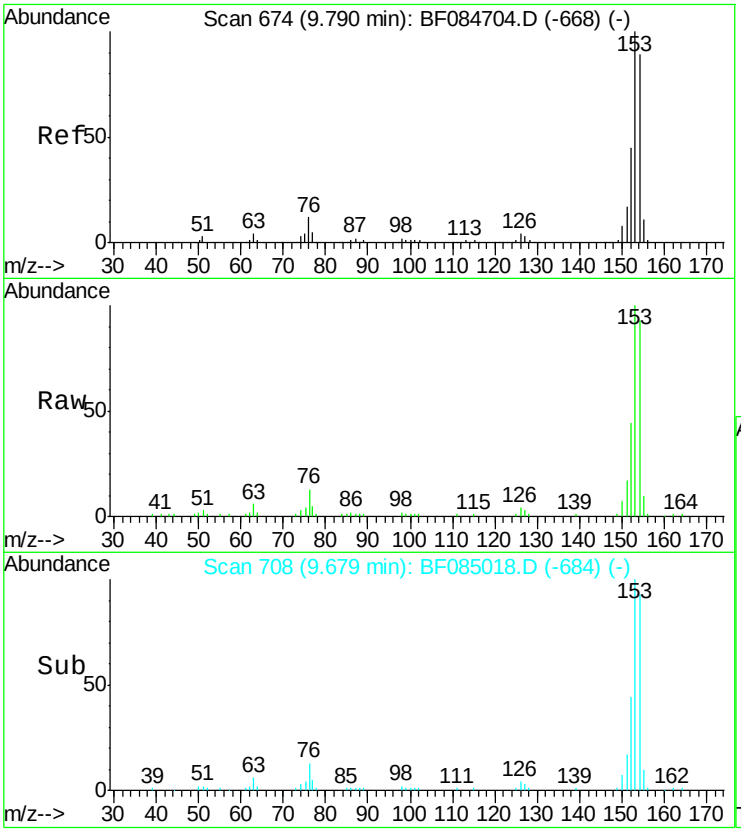



#44
2-Fluorobiphenyl
Concen: 8.57 ng
RT: 8.97 min Scan# 646
Delta R.T. -0.02 min
Lab File: BF085018.D
Acq: 11 Feb 2016 14:53

Tgt Ion:172 Resp: 191330

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.1 | 28.9 | 43.3 |
| 170 | 23.0 | 18.6 | 27.8 |

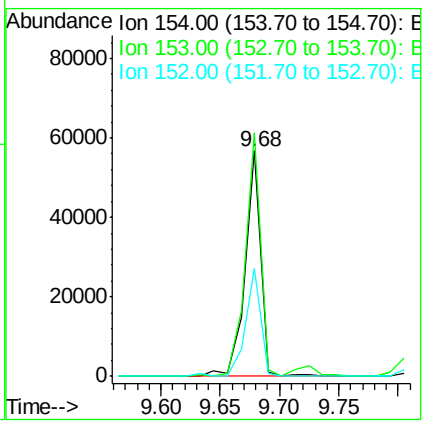





#51
Acenaphthene
Concen: 3.06 ng
RT: 9.68 min Scan# 708
Delta R.T. -0.02 min
Lab File: BF085018.D
Acq: 11 Feb 2016 14:53

Tgt Ion:154 Resp: 51990

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 108.0 | 91.5 | 137.3 |
| 152 | 47.9 | 43.0 | 64.6 |




**Instrument :**
BNA_F
**ClientSampleId :**
WC-1DL

**Manual Integrations APPROVED**
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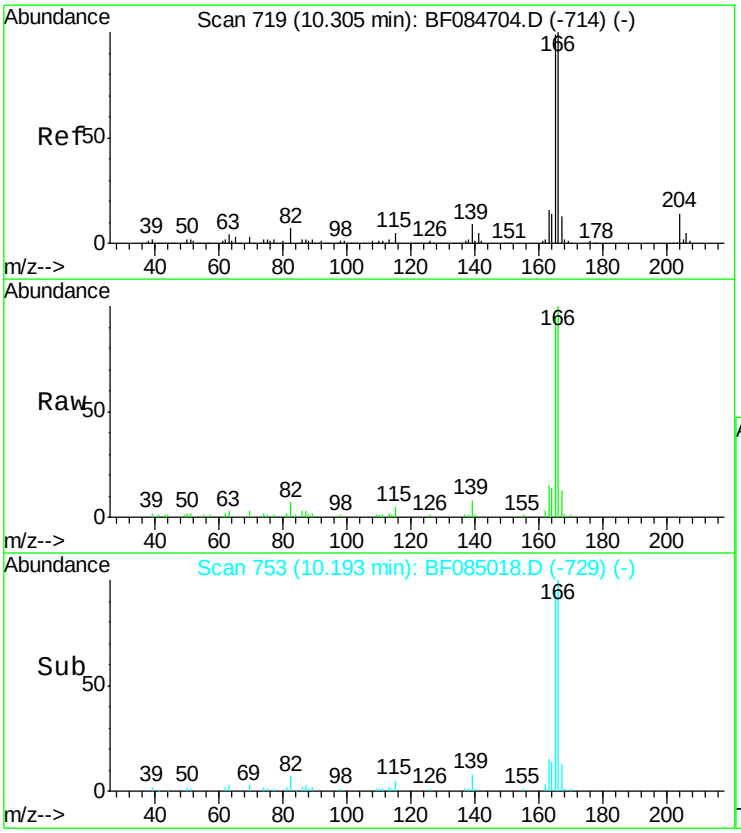
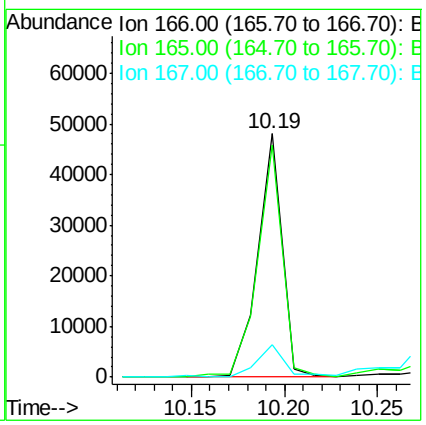
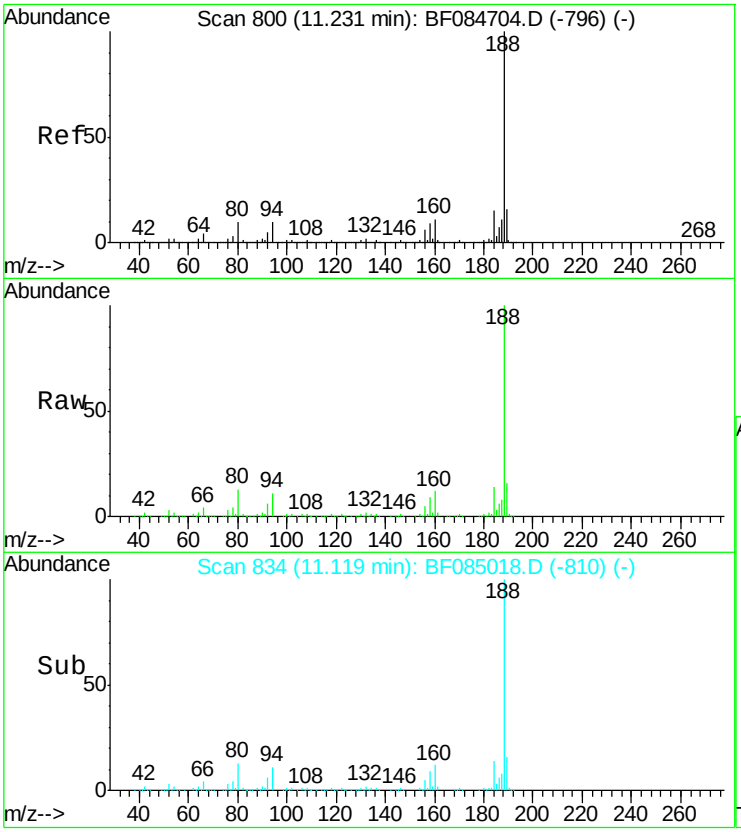



#57
Fluorene
Concen: 2.48 ng
RT: 10.19 min Scan# 753
Delta R.T. -0.02 min
Lab File: BF085018.D
Acq: 11 Feb 2016 14:53

Tgt Ion:166 Resp: 43029

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 95.3 | 79.1 | 118.7 |
| 167 | 13.1 | 10.4 | 15.6 |

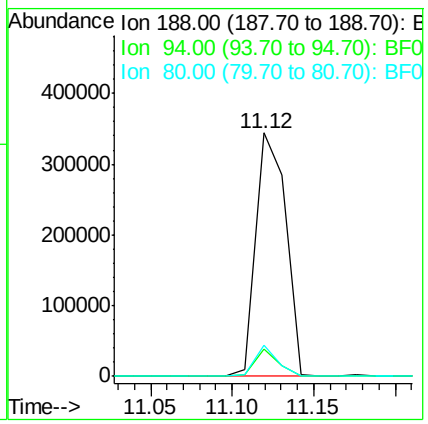





#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.12 min Scan# 834
Delta R.T. -0.02 min
Lab File: BF085018.D
Acq: 11 Feb 2016 14:53

Tgt Ion:188 Resp: 441740

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 11.3 | 9.0 | 13.4 |
| 80 | 12.7 | 9.6 | 14.4 |




**Instrument :**
BNA_F
**ClientSampleId :**
WC-1DL

**Manual Integrations APPROVED**
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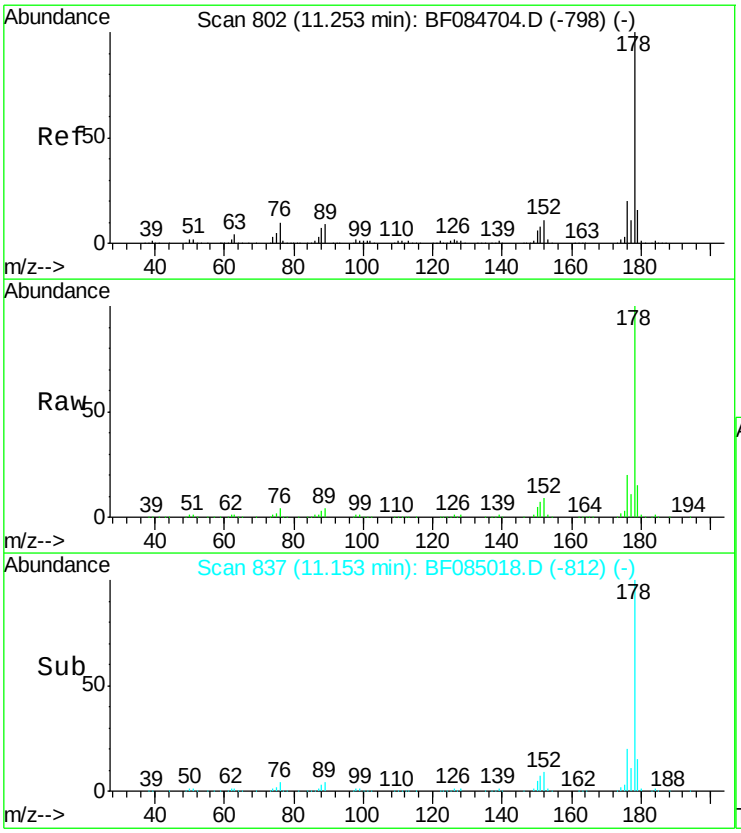
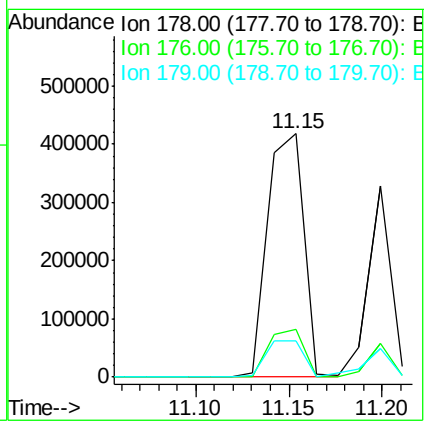
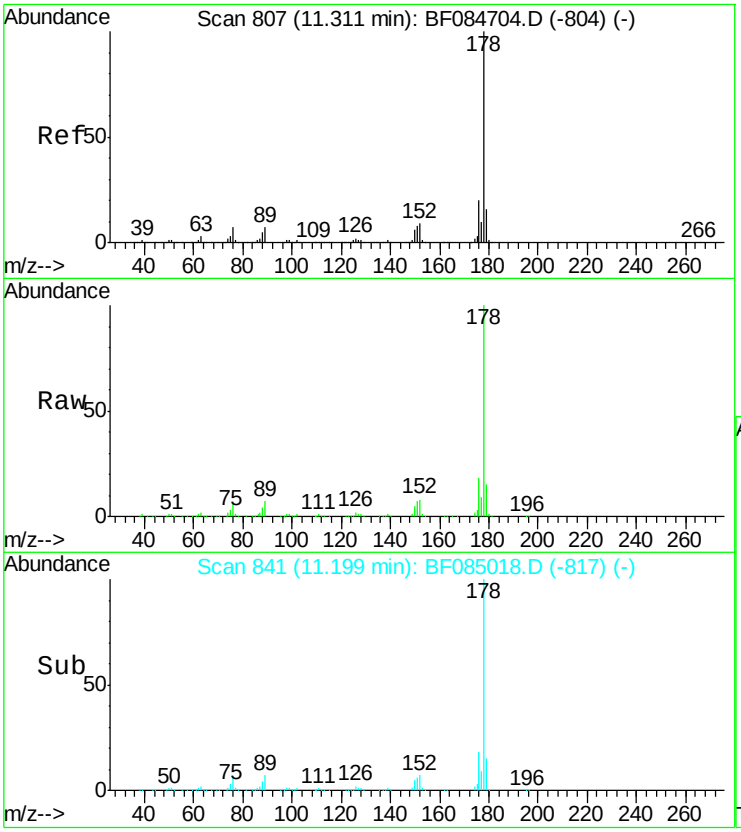



#70
Phenanthrene
Concen: 22.99 ng
RT: 11.15 min Scan# 837
Delta R.T. -0.01 min
Lab File: BF085018.D
Acq: 11 Feb 2016 14:53

Tgt Ion:178 Resp: 563212

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.6 | 15.3 | 22.9 |
| 179 | 14.7 | 12.0 | 18.0 |

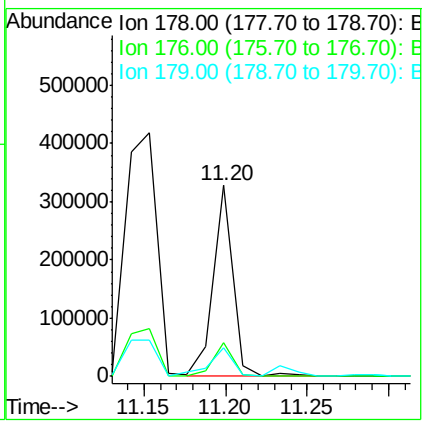





#71
Anthracene
Concen: 11.21 ng
RT: 11.20 min Scan# 841
Delta R.T. -0.02 min
Lab File: BF085018.D
Acq: 11 Feb 2016 14:53

Tgt Ion:178 Resp: 276722

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 17.9 | 15.4 | 23.0 |
| 179 | 15.2 | 12.5 | 18.7 |




**Instrument :**
BNA_F
**ClientSampleId :**
WC-1DL

**Manual Integrations APPROVED**
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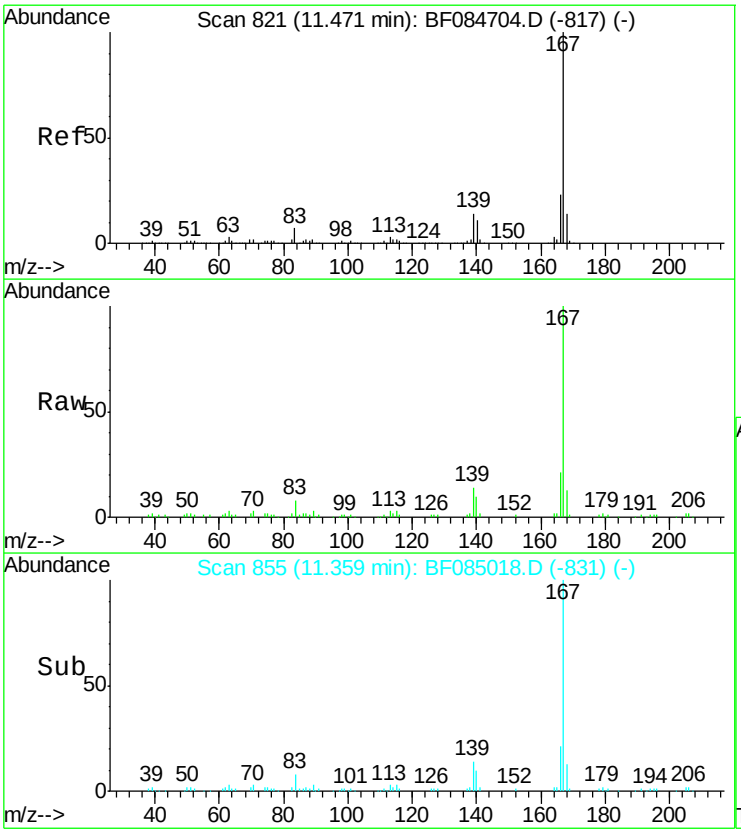
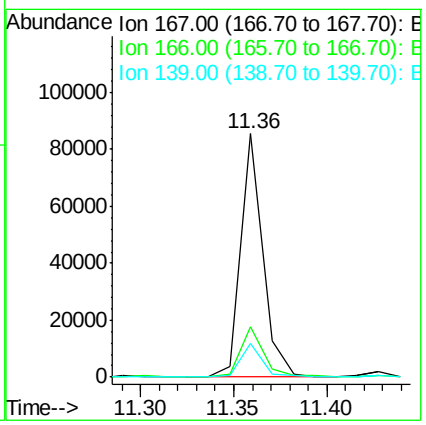
2/12/2016 12:26:09 PM

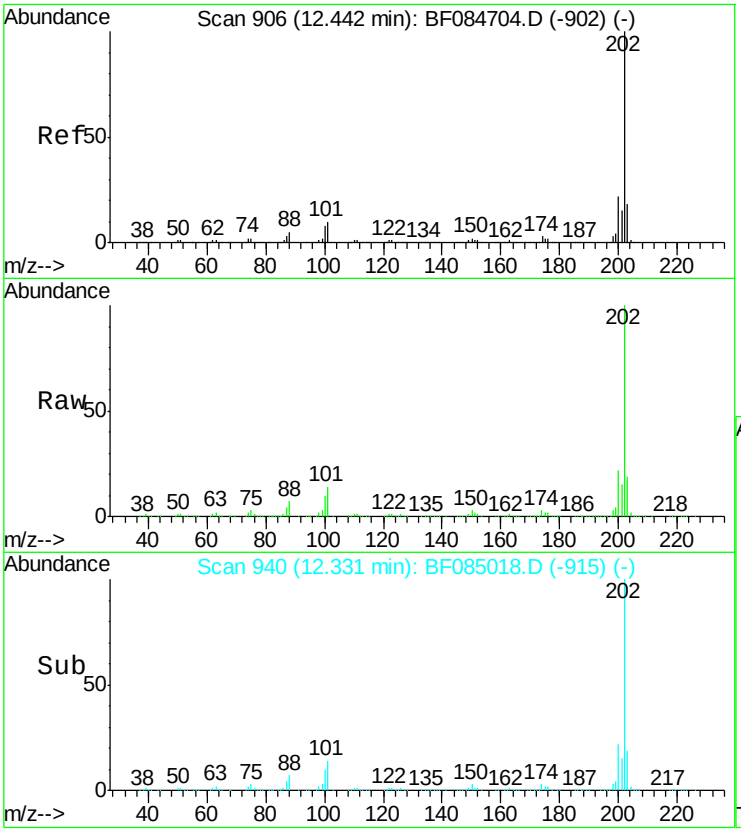



#72
Carbazole
Concen: 3.29 ng
RT: 11.36 min Scan# 855
Delta R.T. -0.02 min
Lab File: BF085018.D
Acq: 11 Feb 2016 14:53

Tgt Ion:167 Resp: 70780

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 20.6 | 17.6 | 26.4 |
| 139 | 13.6 | 11.8 | 17.8 |

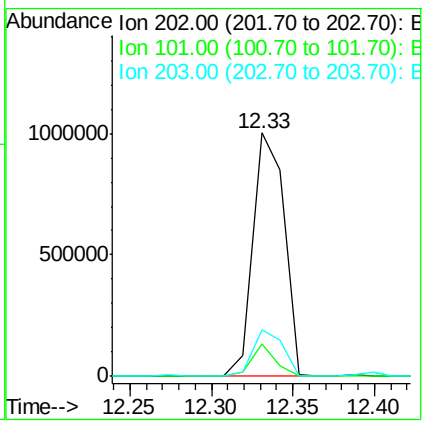





#74
Fluoranthene
Concen: 53.81 ng
RT: 12.33 min Scan# 940
Delta R.T. -0.01 min
Lab File: BF085018.D
Acq: 11 Feb 2016 14:53

Tgt Ion:202 Resp: 1334479

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 13.5 | 0.0 | 32.8 |
| 203 | 19.1 | 0.0 | 37.9 |




**Instrument :**
BNA_F
**ClientSampleId :**
WC-1DL

**Manual Integrations APPROVED**
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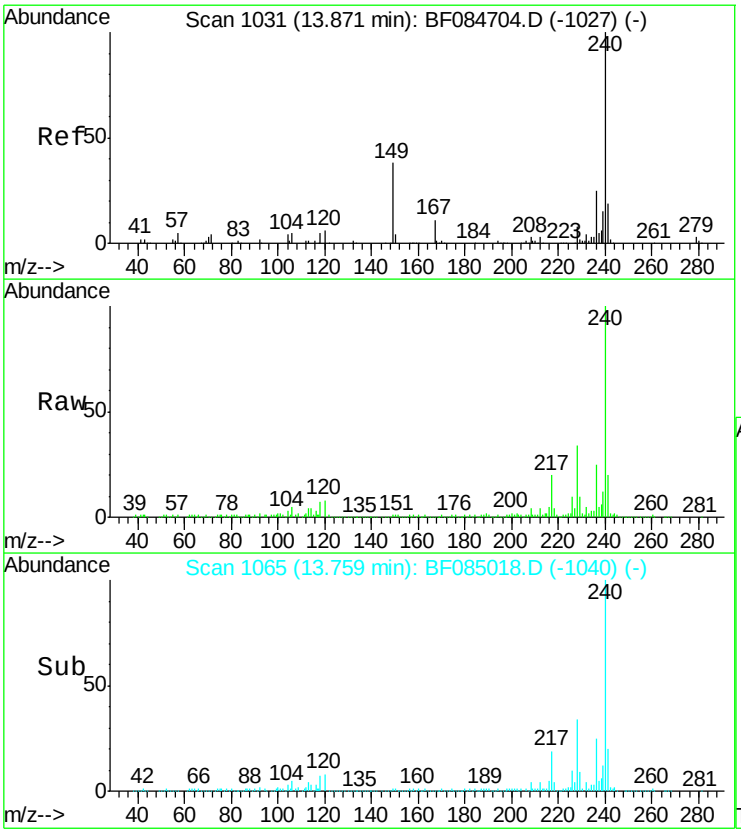
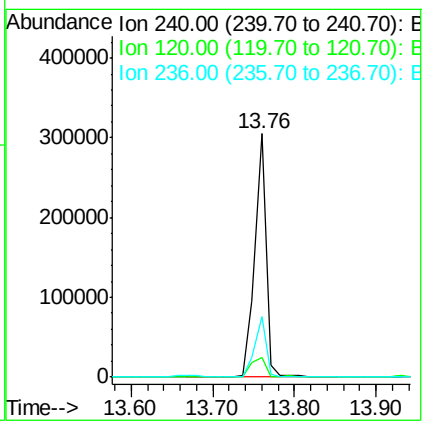
2/12/2016 12:26:09 PM

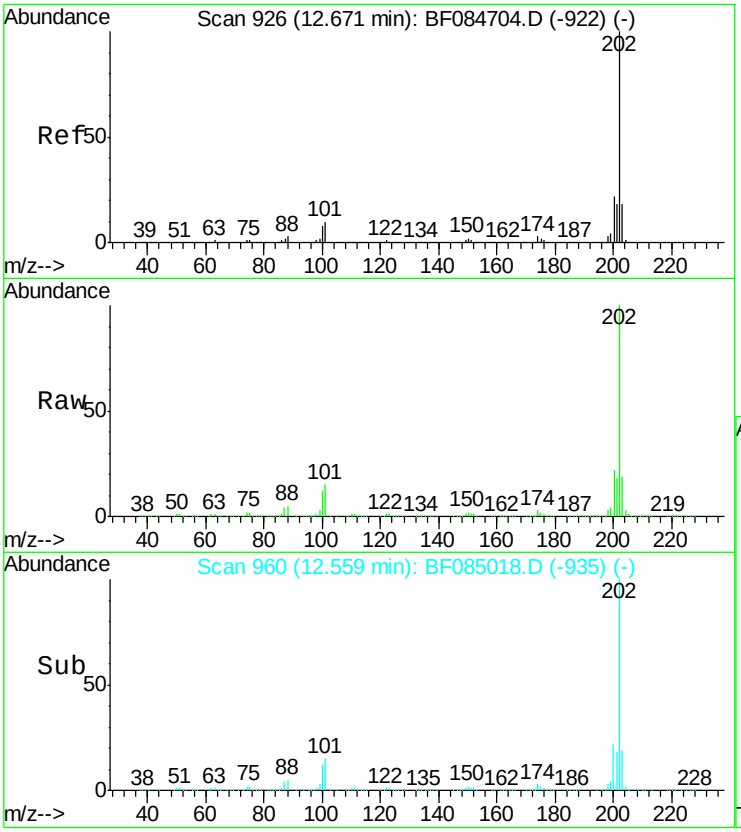



#75
Chrysene-d12
Concen: 20.00 ng
RT: 13.76 min Scan# 1065
Delta R.T. -0.01 min
Lab File: BF085018.D
Acq: 11 Feb 2016 14:53

Tgt Ion:240 Resp: 294242

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 8.1 | 9.5 | 14.3# |
| 236 | 24.7 | 20.6 | 31.0 |

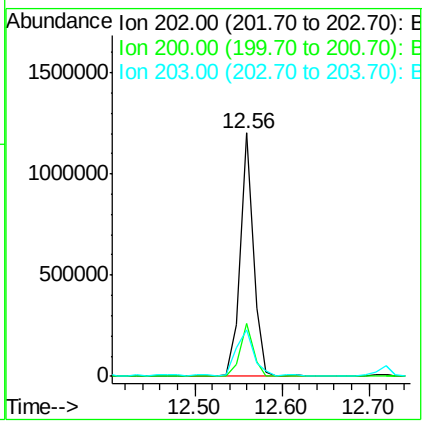





#77
Pyrene
Concen: 55.86 ng
RT: 12.56 min Scan# 960
Delta R.T. -0.01 min
Lab File: BF085018.D
Acq: 11 Feb 2016 14:53

Tgt Ion:202 Resp: 1258355

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.9 | 17.2 | 25.8 |
| 203 | 18.9 | 14.3 | 21.5 |




**Instrument :**
BNA_F
**ClientSampleId :**
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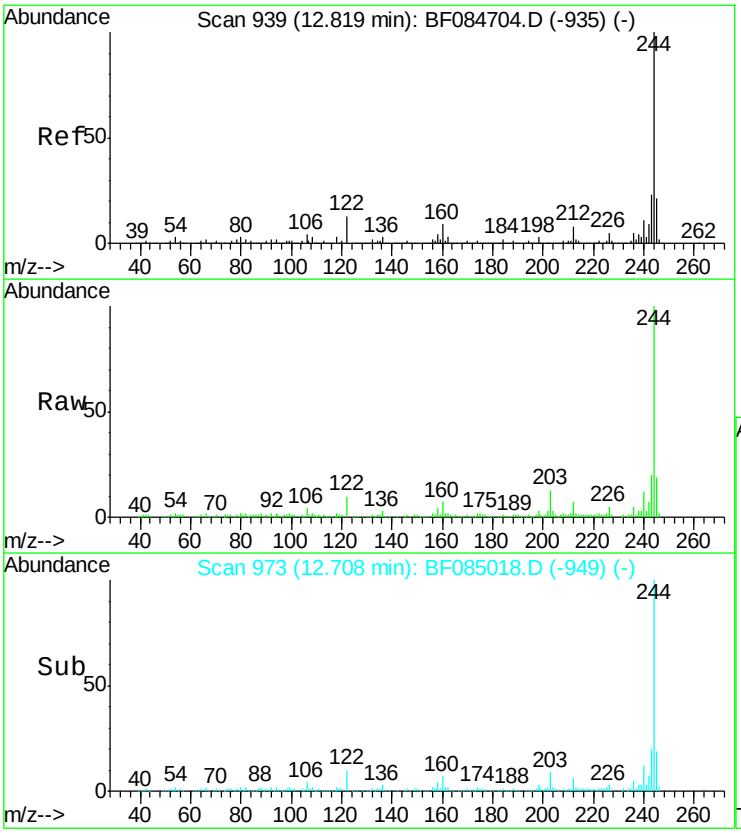
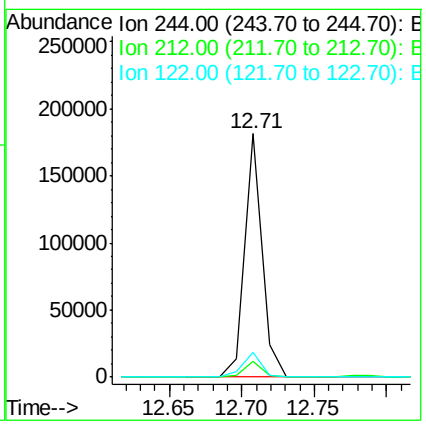
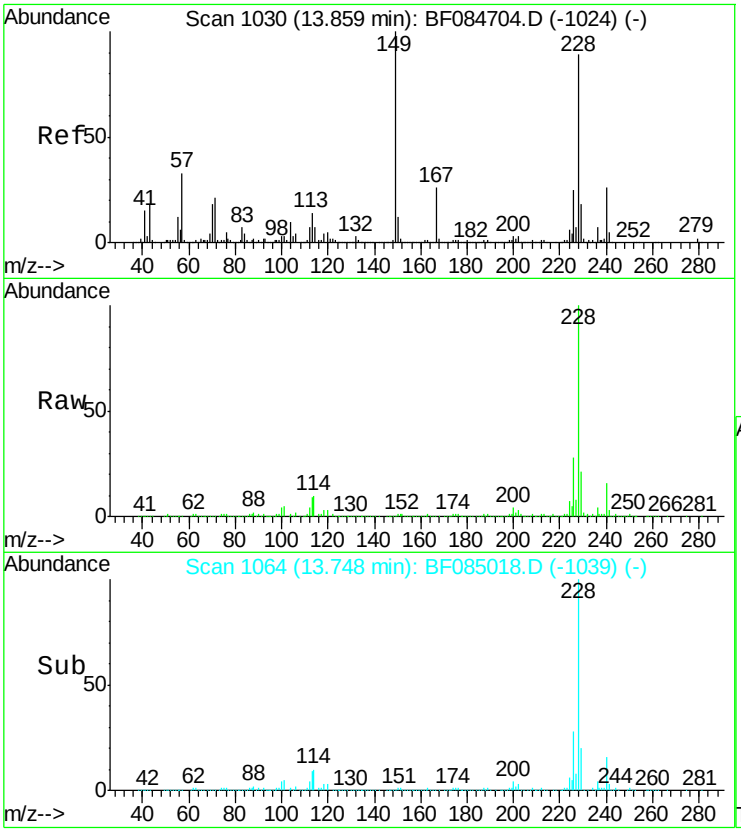



#78
Terphenyl-d14
Concen: 11.69 ng
RT: 12.71 min Scan# 973
Delta R.T. -0.02 min
Lab File: BF085018.D
Acq: 11 Feb 2016 14:53

Tgt Ion:244 Resp: 151774

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 6.6 | 5.7 | 8.5 |
| 122 | 10.3 | 7.4 | 11.0 |

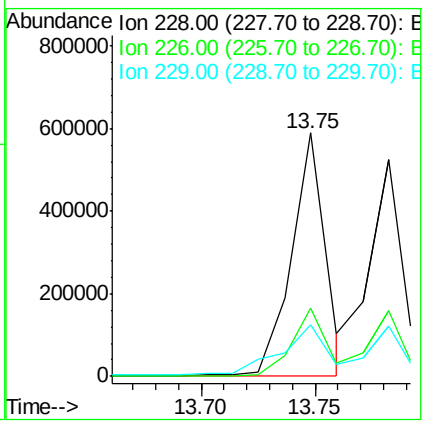





#80
Benzo(a)anthracene
Concen: 33.92 ng m
RT: 13.75 min Scan# 1064
Delta R.T. -0.01 min
Lab File: BF085018.D
Acq: 11 Feb 2016 14:53

Tgt Ion:228 Resp: 619487

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 27.9 | 21.8 | 32.6 |
| 229 | 21.2 | 15.8 | 23.8 |




**Instrument :**
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**ClientSampleId :**
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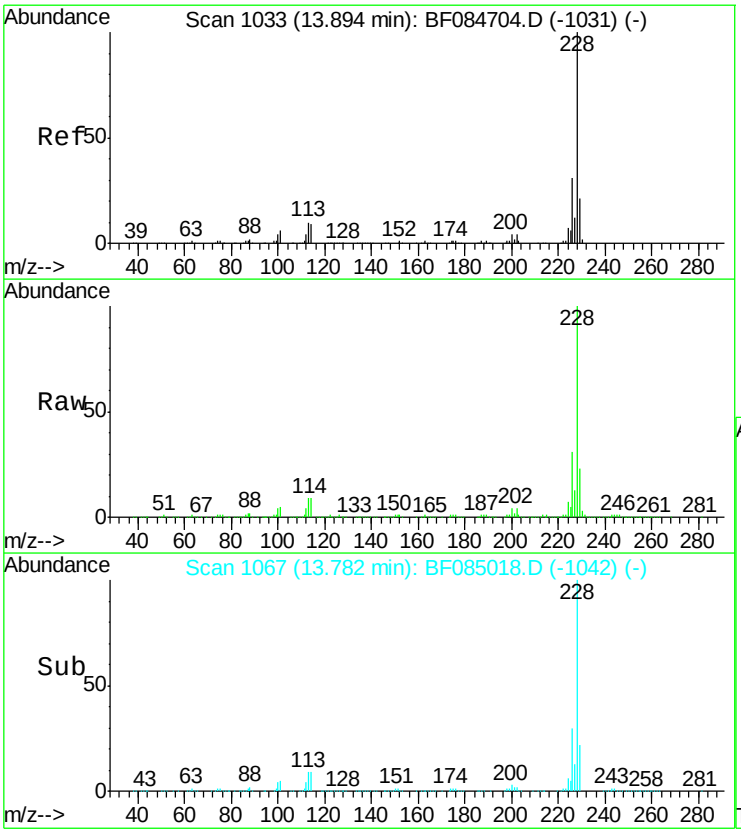
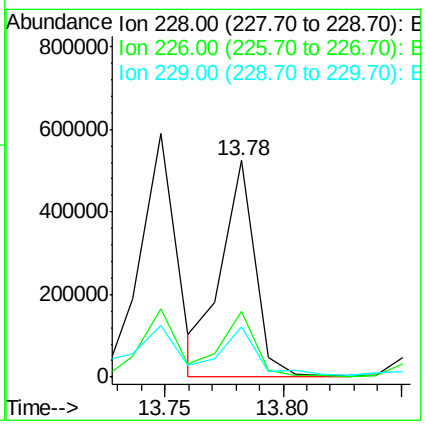
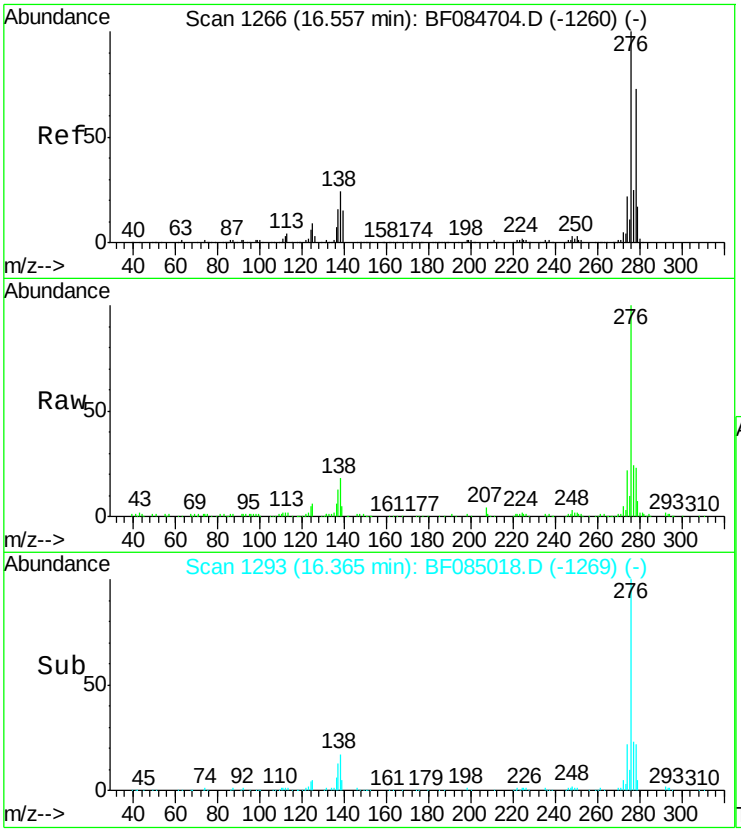



#82
Chrysene
Concen: 29.76 ng m
RT: 13.78 min Scan# 1067
Delta R.T. -0.01 min
Lab File: BF085018.D
Acq: 11 Feb 2016 14:53

Tgt Ion:228 Resp: 527087

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.5 | 24.3 | 36.5 |
| 229 | 23.4 | 16.1 | 24.1 |

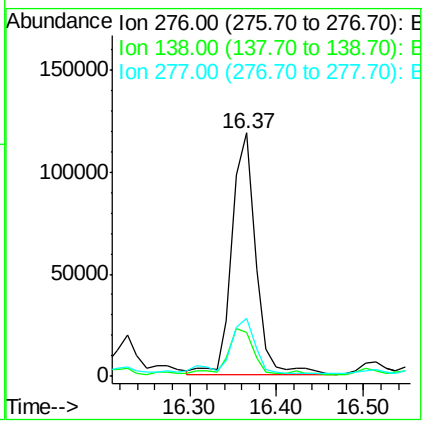





#85
Indeno(1,2,3-cd)pyrene
Concen: 16.28 ng
RT: 16.37 min Scan# 1293
Delta R.T. -0.02 min
Lab File: BF085018.D
Acq: 11 Feb 2016 14:53

Tgt Ion:276 Resp: 226967

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 21.4 | 20.6 | 30.8 |
| 277 | 25.9 | 20.1 | 30.1 |




**Instrument :**
BNA_F
**ClientSampleId :**
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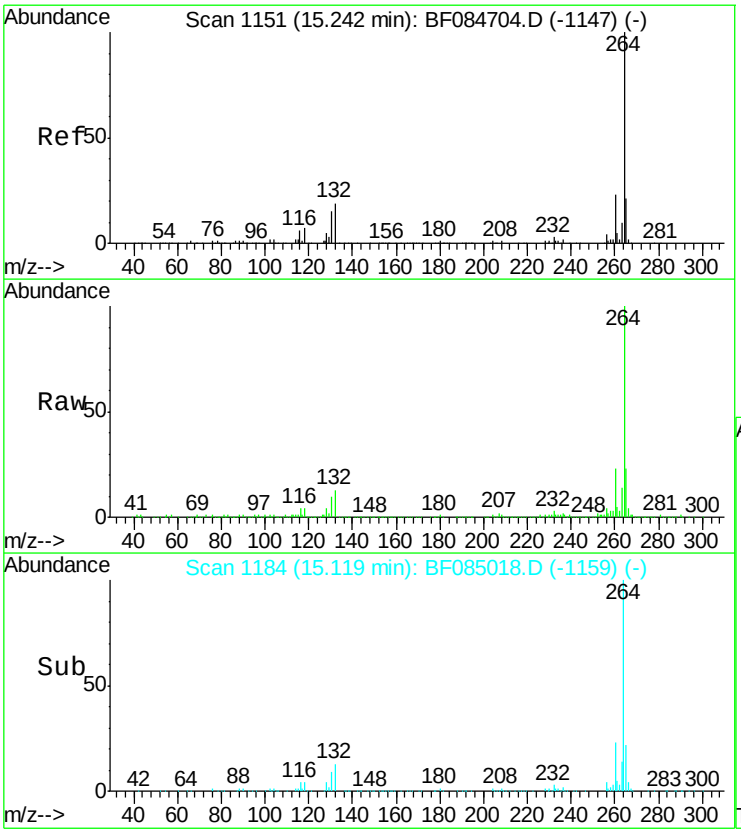
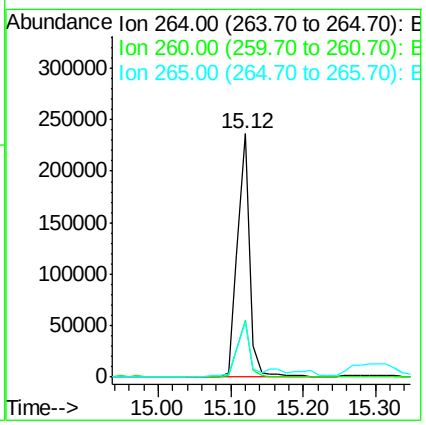
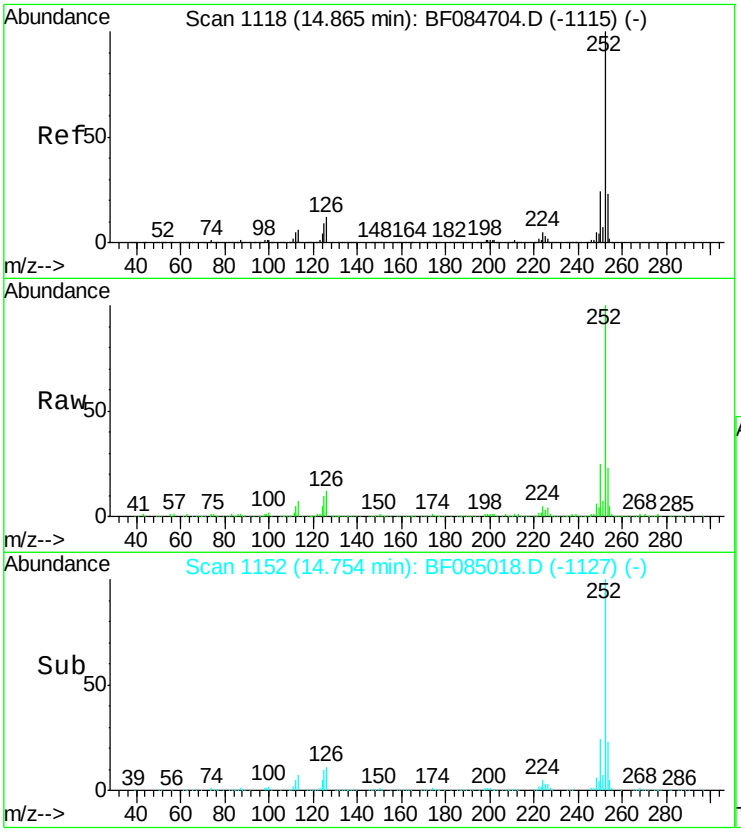



#86
Perylene-d12
Concen: 20.00 ng
RT: 15.12 min Scan# 1184
Delta R.T. -0.01 min
Lab File: BF085018.D
Acq: 11 Feb 2016 14:53

Tgt Ion:264 Resp: 280134

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 23.1 | 19.4 | 29.2 |
| 265 | 22.6 | 17.8 | 26.6 |

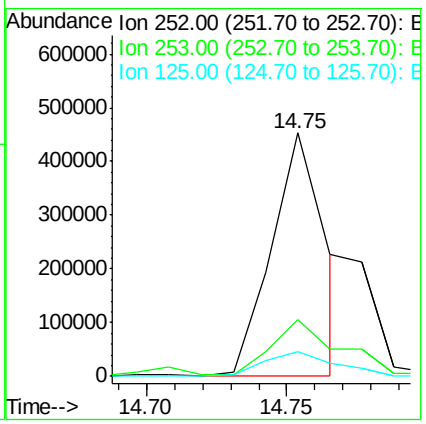





#87
Benzo(b)fluoranthene
Concen: 32.15 ng m
RT: 14.75 min Scan# 1152
Delta R.T. -0.01 min
Lab File: BF085018.D
Acq: 11 Feb 2016 14:53

Tgt Ion:252 Resp: 605202

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 23.1 | 17.3 | 25.9 |
| 125 | 10.2 | 6.5 | 9.7# |




**Instrument :**
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**ClientSampleId :**
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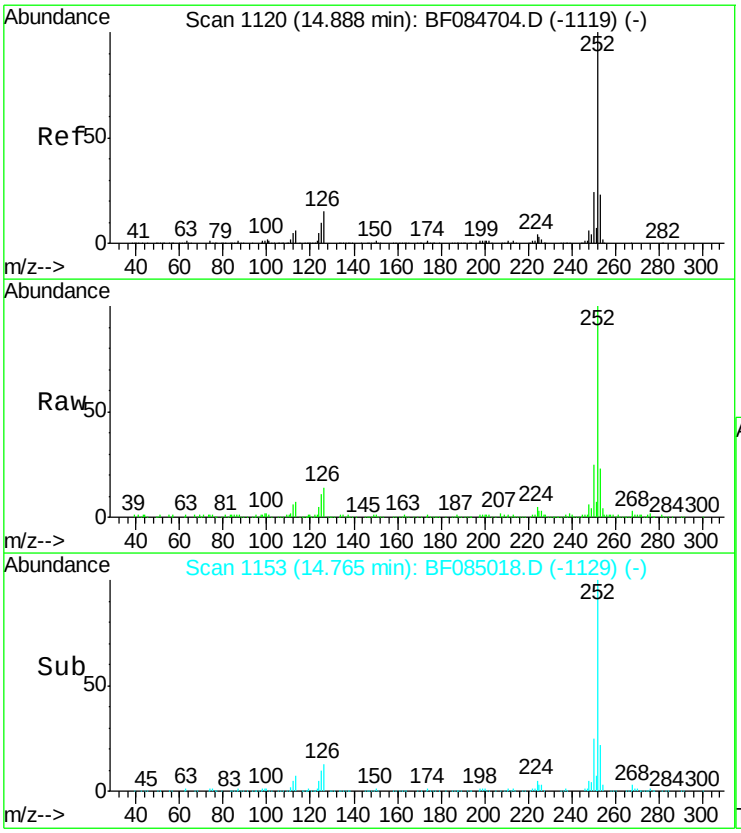
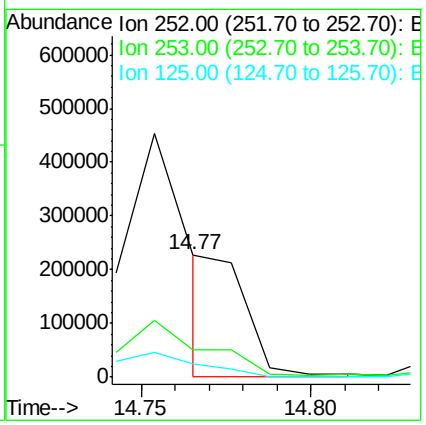
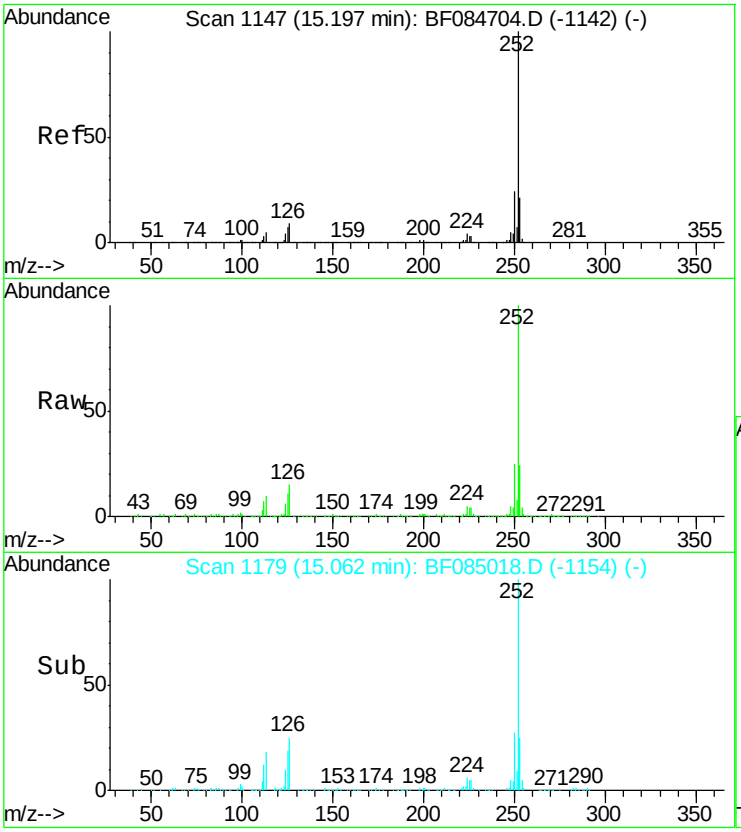



#88
Benzo(k)fluoranthene
Concen: 10.67 ng m
RT: 14.77 min Scan# 1153
Delta R.T. -0.02 min
Lab File: BF085018.D
Acq: 11 Feb 2016 14:53

Tgt Ion:252 Resp: 166118

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.9 | 18.1 | 27.1 |
| 125 | 10.7 | 9.0 | 13.6 |






#89
Benzo(a)pyrene
Concen: 24.56 ng
RT: 15.06 min Scan# 1179
Delta R.T. -0.01 min
Lab File: BF085018.D
Acq: 11 Feb 2016 14:53

Tgt Ion:252 Resp: 393956

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 23.9 | 17.3 | 25.9 |
| 125 | 11.5 | 7.0 | 10.4# |

**Instrument :**
BNA_F
**ClientSampleId :**
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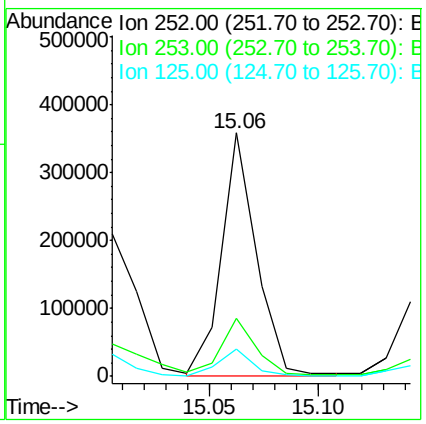
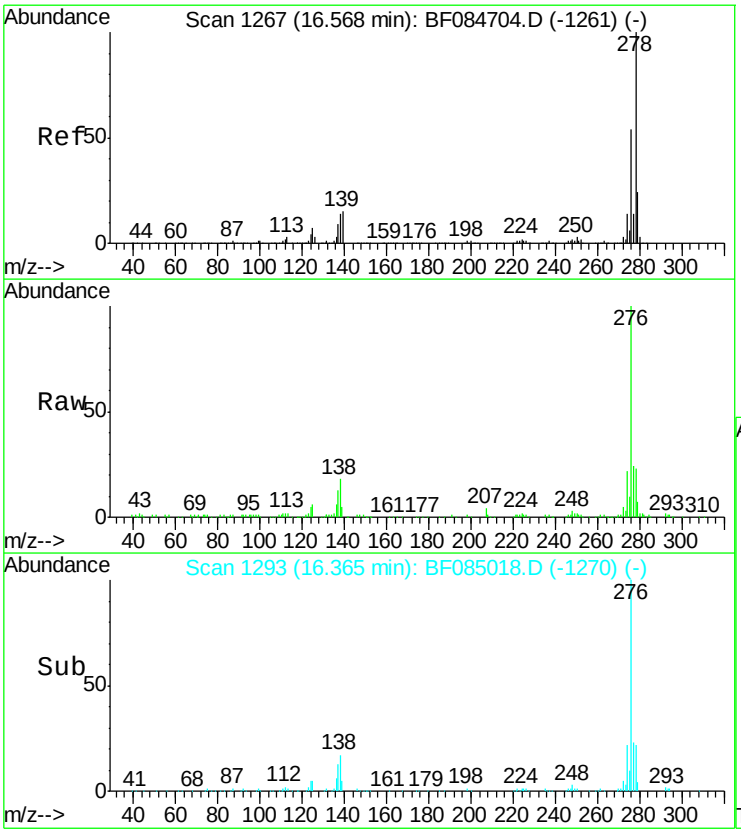
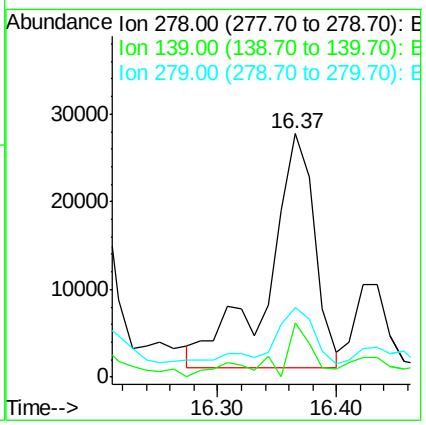


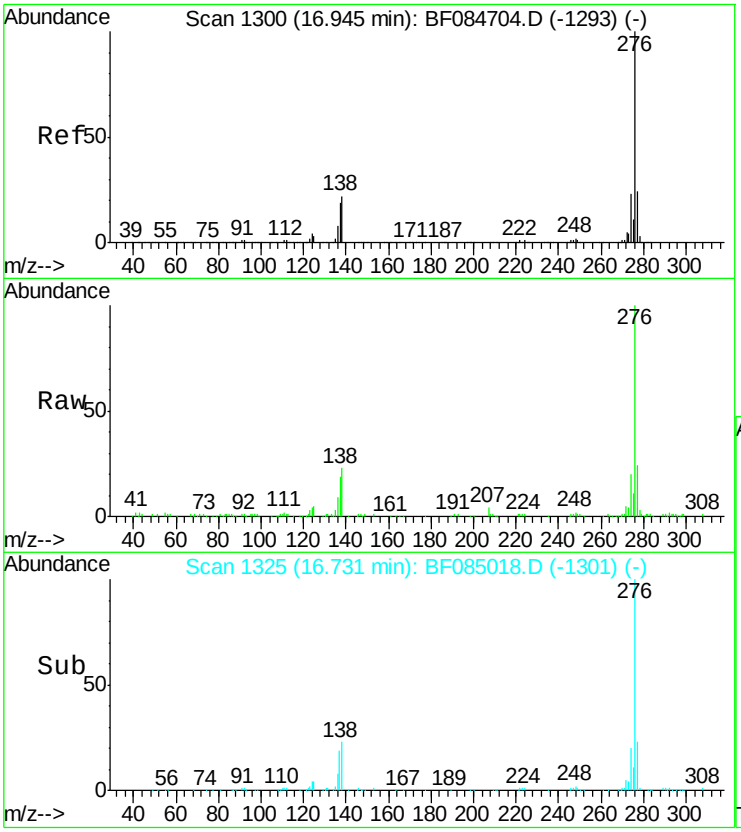




#90
Dibenzo(a,h)anthracene
Concen: 5.36 ng
RT: 16.37 min Scan# 1293
Delta R.T. -0.03 min
Lab File: BF085018.D
Acq: 11 Feb 2016 14:53

Tgt Ion:278 Resp: 72299

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 22.3 | 15.0 | 22.4 |
| 279 | 28.5 | 18.9 | 28.3# |

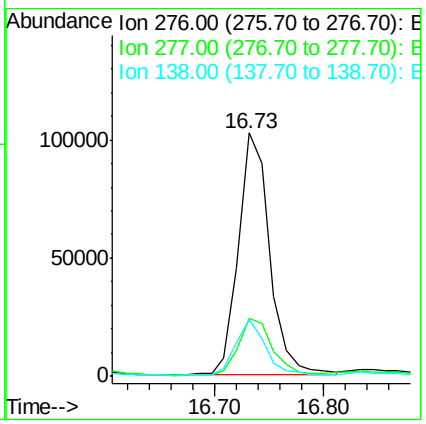





#91
Benzo(g,h,i)perylene
Concen: 14.97 ng
RT: 16.73 min Scan# 1325
Delta R.T. -0.02 min
Lab File: BF085018.D
Acq: 11 Feb 2016 14:53

Tgt Ion:276 Resp: 203537

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 23.9 | 18.8 | 28.2 |
| 138 | 23.5 | 17.8 | 26.6 |




**Instrument :**
BNA_F
**ClientSampleId :**
WC-1DL

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