Quantitation Report (QT/LSC Reviewed)

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF090515\
Data File : BF081512.D
Acq On : 6 Sep 2015 16:20
Operator : UM/IZ
Sample : G3472-01
Misc :
ALS Vial : 87 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB001

**Manual Integrations APPROVED**
MMDadoda
9/8/2015 3:58:43 PM

Quant Time: Sep 07 09:11:36 2015
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF090115.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Sep 07 05:41:57 2015
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 6.35 | 152 | 53610 | 20.00 | ng | | -0.01 |
| 21) Naphthalene-d8 | 7.64 | 136 | 206002 | 20.00 | ng | | -0.01 |
| 38) Acenaphthene-d10 | 9.38 | 164 | 81737 | 20.00 | ng | | -0.01 |
| 63) Phenanthrene-d10 | 10.86 | 188 | 147226 | 20.00 | ng | | 0.00 |
| 75) Chrysene-d12 | 13.47 | 240 | 116324 | 20.00 | ng | | 0.01 |
| 86) Perylene-d12 | 14.78 | 264 | 85528 | 20.00 | ng | | 0.01 |
| **System Monitoring Compounds** | | | | | | | |
| 5) 2-Fluorophenol | 4.90 | 112 | 277985 | 80.45 | ng | | 0.01 |
| 7) Phenol-d6 | 6.03 | 99 | 423547 | 92.60 | ng | | 0.00 |
| 23) Nitrobenzene-d5 | 6.94 | 82 | 264162 | 61.87 | ng | | -0.01 |
| 41) 2,4,6-Tribromophenol | 10.17 | 330 | 55197 | 75.84 | ng | | -0.01 |
| 44) 2-Fluorobiphenyl | 8.73 | 172 | 398893 | 62.54 | ng | | -0.01 |
| 78) Terphenyl-d14 | 12.43 | 244 | 235304 | 47.09 | ng | | -0.01 |
| **Target Compounds** | | | | | | | Qvalue |
| 31) Naphthalene | 7.67 | 128 | 25502 | 2.32 | ng | | 98 |
| 48) Acenaphthylene | 9.24 | 152 | 60733 | 6.30 | ng | | 97 |
| 49) Dimethylphthalate | 9.13 | 163 | 74453 | 11.72 | ng | # | 97 |
| 51) Acenaphthene | 9.42 | 154 | 43001 | 7.85 | ng | | 93 |
| 54) Dibenzofuran | 9.59 | 168 | 38338 | 4.79 | ng | # | 81 |
| 57) Fluorene | 9.93 | 166 | 58454m | 9.62 | ng | | |
| 70) Phenanthrene | 10.88 | 178 | 613684 | 74.98 | ng | | 96 |
| 71) Anthracene | 10.92 | 178 | 168263 | 20.01 | ng | | 97 |
| 72) Carbazole | 11.10 | 167 | 52031 | 6.59 | ng | | 96 |
| 74) Fluoranthene | 12.07 | 202 | 1191328 | 134.45 | ng | | 84 |
| 77) Pyrene | 12.29 | 202 | 866399 | 100.55 | ng | | 97 |
| 80) Benzo(a)anthracene | 13.46 | 228 | 453456m | 61.21 | ng | | |
| 82) Chrysene | 13.50 | 228 | 380618m | 57.32 | ng | | |
| 83) Bis(2-ethylhexyl)phthalate | 13.50 | 149 | 12837 | 2.60 | ng | # | 89 |
| 85) Indeno(1,2,3-cd)pyrene | 15.86 | 276 | 147459 | 30.27 | ng | # | 79 |
| 87) Benzo(b)fluoranthene | 14.46 | 252 | 447891m | 73.35 | ng | | |
| 88) Benzo(k)fluoranthene | 14.47 | 252 | 166029m | 32.77 | ng | | |
| 89) Benzo(a)pyrene | 14.74 | 252 | 318980 | 61.65 | ng | # | 81 |
| 90) Dibenzo(a,h)anthracene | 15.86 | 278 | 35116m | 8.78 | ng | | |
| 91) Benzo(g,h,i)perylene | 16.18 | 276 | 128621 | 33.71 | ng | # | 73 |

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

Quantitation Report (QT/LSC Reviewed)

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF090515\
Data File : BF081512.D
Acq On : 6 Sep 2015 16:20
Operator : UM/IZ
Sample : G3472-01
Misc :
ALS Vial : 87 Sample Multiplier: 1

Quant Time: Sep 07 09:11:36 2015
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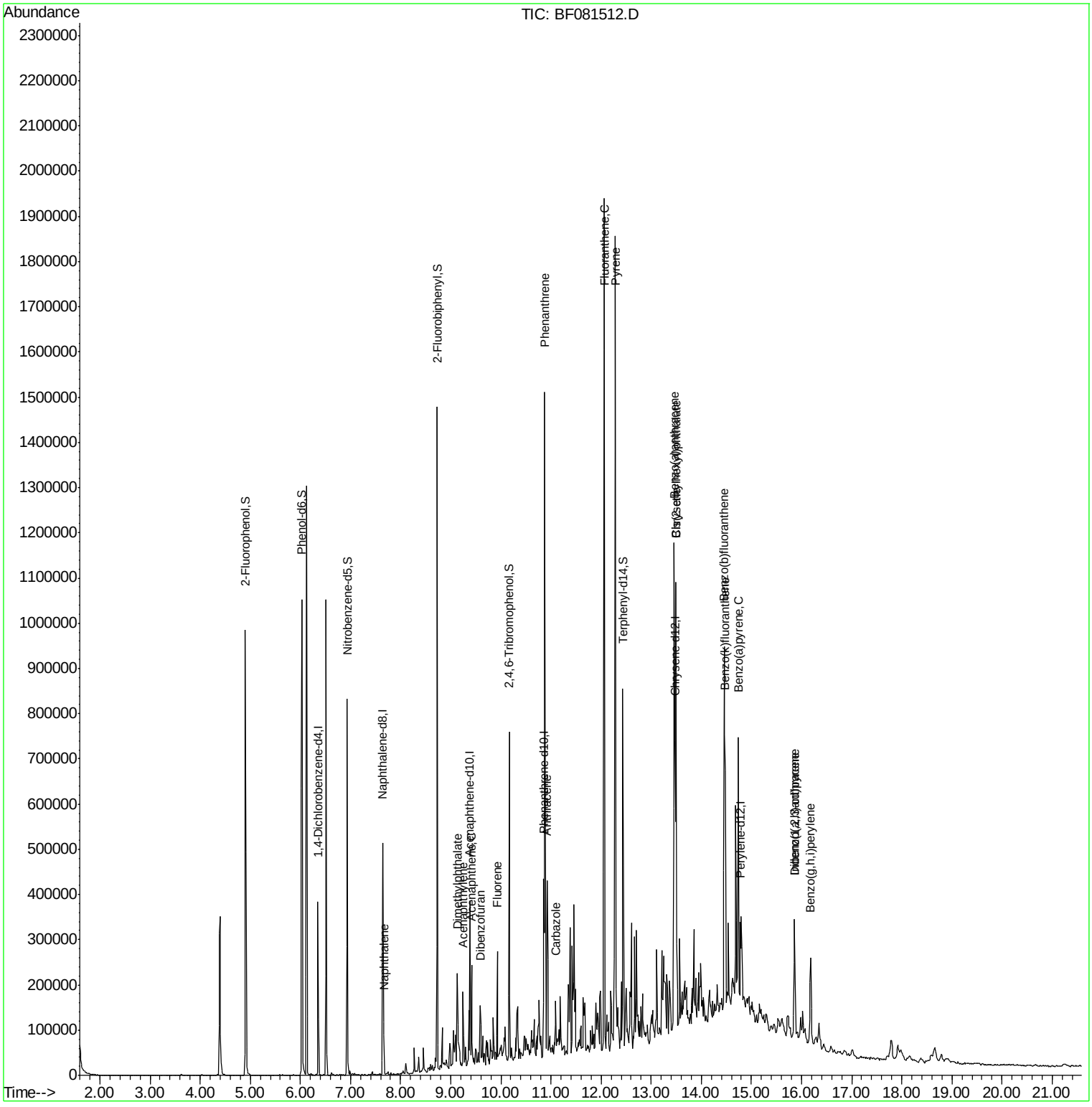
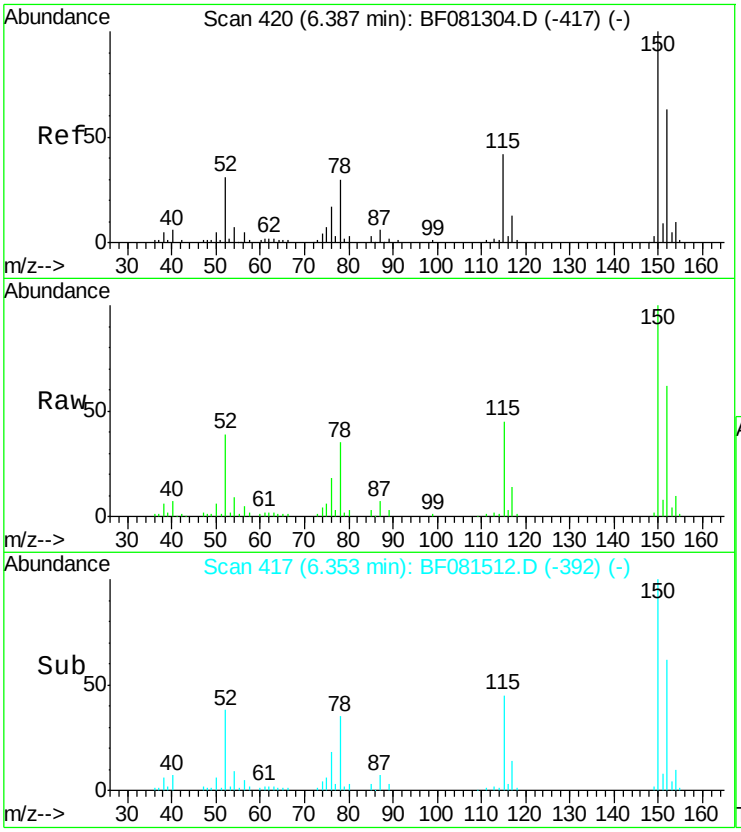
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Sep 07 05:41:57 2015
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
SB001

**Manual Integrations APPROVED**
MMDadoda
9/8/2015 3:58:43 PM

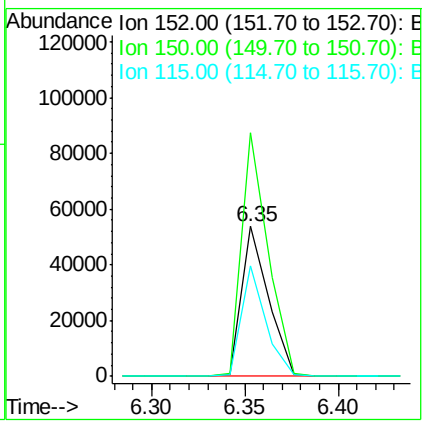





#1
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.35 min Scan# 417
Delta R.T. -0.01 min
Lab File: BF081512.D
Acq: 6 Sep 2015 16:20

Tgt Ion:152 Resp: 53610

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 162.3 | 124.7 | 187.1 |
| 115 | 73.7 | 39.0 | 58.4# |




**Instrument :**
BNA_F
**ClientSampleId :**
SB001

**Manual Integrations APPROVED**
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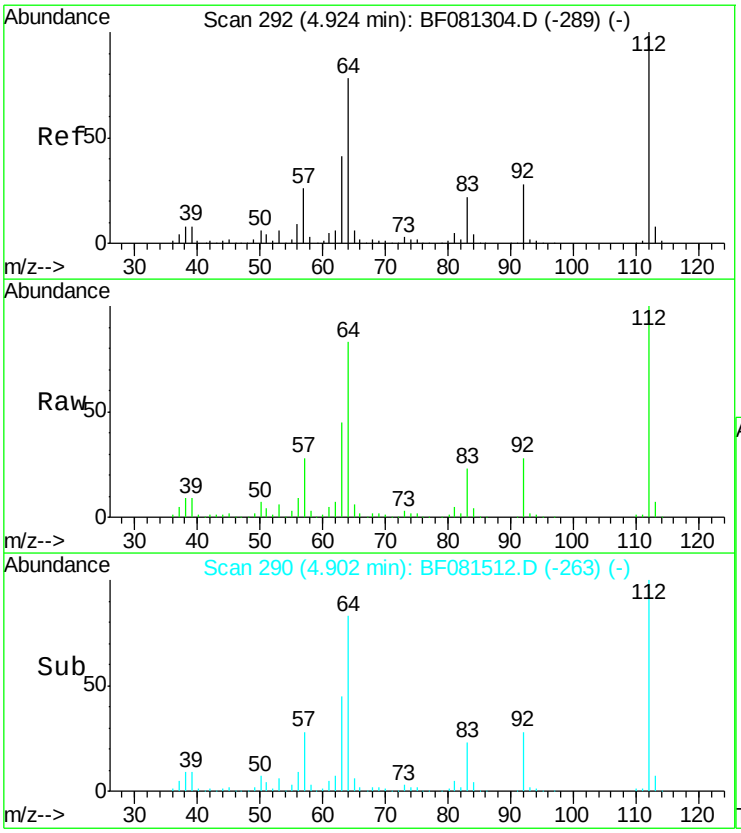
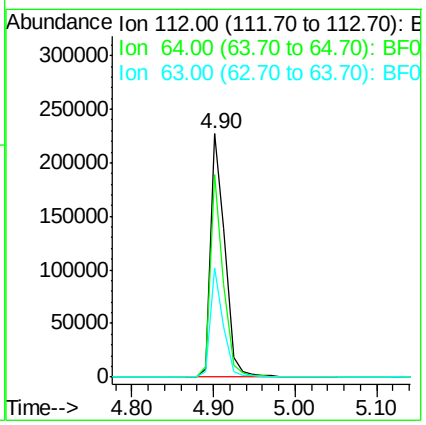
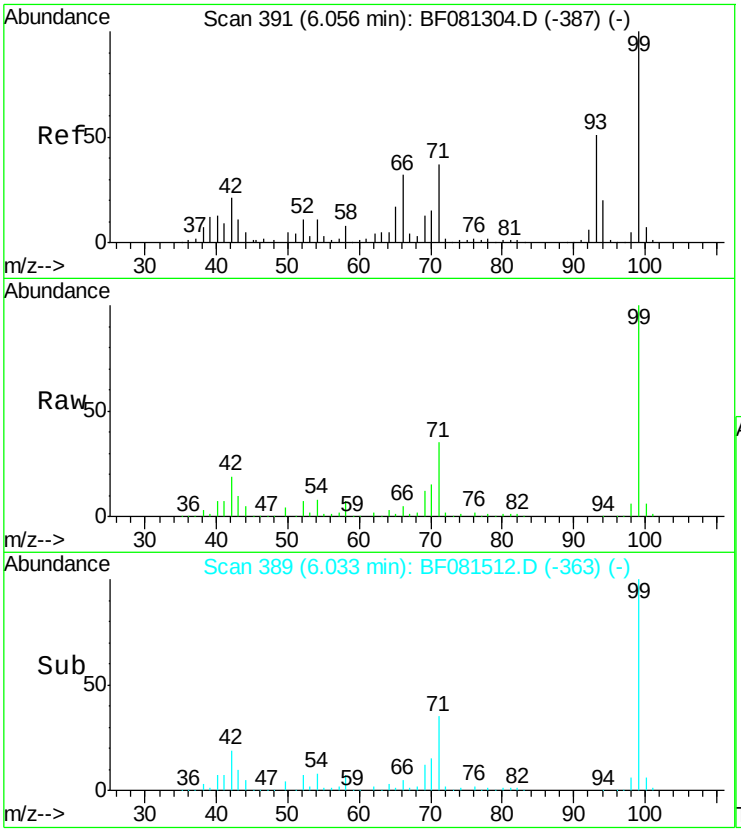



#5
2-Fluorophenol
Concen: 80.45 ng
RT: 4.90 min Scan# 290
Delta R.T. 0.01 min
Lab File: BF081512.D
Acq: 6 Sep 2015 16:20

Tgt Ion:112 Resp: 277985

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 83.1 | 39.7 | 59.5# |
| 63 | 44.9 | 17.4 | 26.0# |

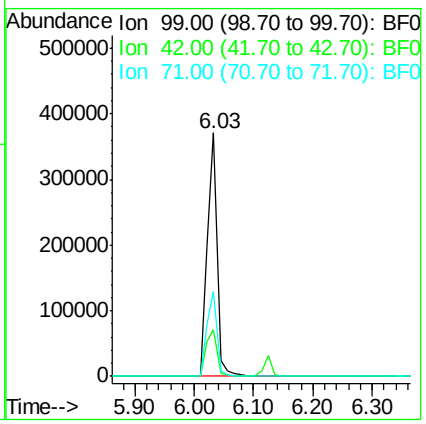





#7
Phenol-d6
Concen: 92.60 ng
RT: 6.03 min Scan# 389
Delta R.T. 0.00 min
Lab File: BF081512.D
Acq: 6 Sep 2015 16:20

Tgt Ion: 99 Resp: 423547

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 19.2 | 13.7 | 20.5 |
| 71 | 35.0 | 14.2 | 21.2# |




**Instrument :**
BNA_F
**ClientSampleId :**
SB001

**Manual Integrations APPROVED**
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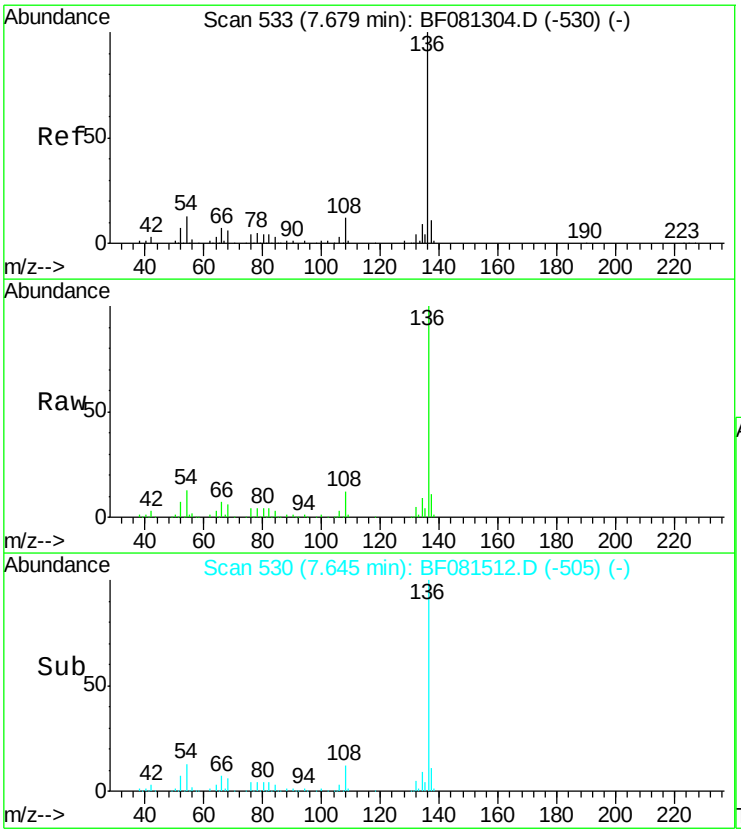
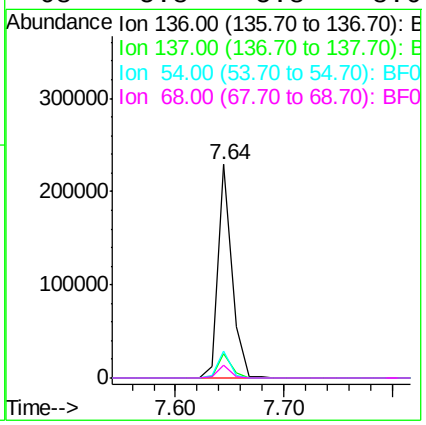
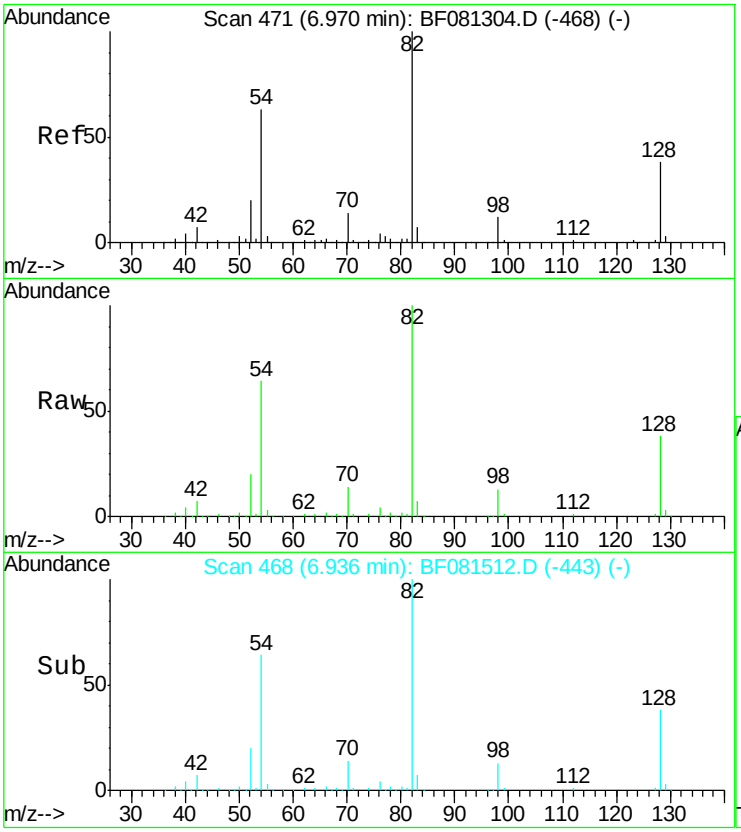



#21
Naphthalene-d8
Concen: 20.00 ng
RT: 7.64 min Scan# 530
Delta R.T. -0.01 min
Lab File: BF081512.D
Acq: 6 Sep 2015 16:20

Tgt Ion:136 Resp: 206002

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.4 | 9.0 | 13.6 |
| 54 | 12.8 | 8.2 | 12.2# |
| 68 | 5.8 | 5.8 | 8.6 |

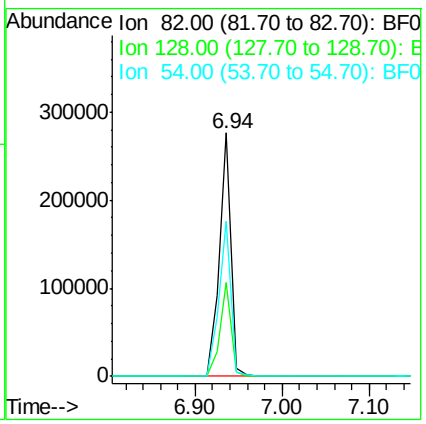





#23
Nitrobenzene-d5
Concen: 61.87 ng
RT: 6.94 min Scan# 468
Delta R.T. -0.01 min
Lab File: BF081512.D
Acq: 6 Sep 2015 16:20

Tgt Ion: 82 Resp: 264162

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 38.5 | 51.0 | 76.6# |
| 54 | 63.5 | 47.5 | 71.3 |




**Instrument :**
BNA_F
**ClientSampleId :**
SB001

**Manual Integrations APPROVED**
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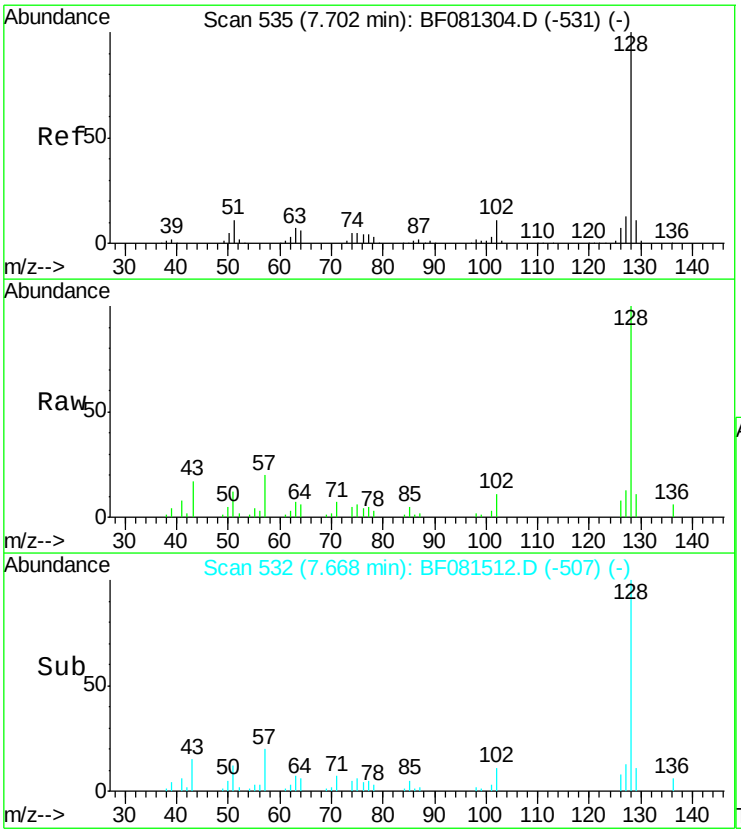
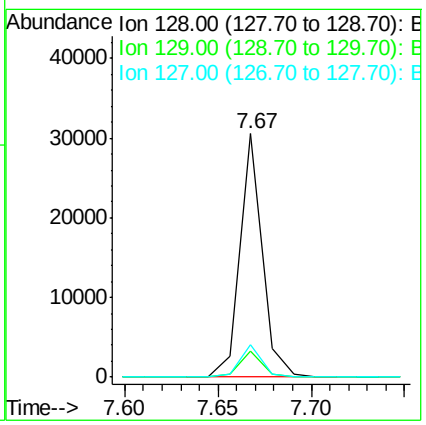
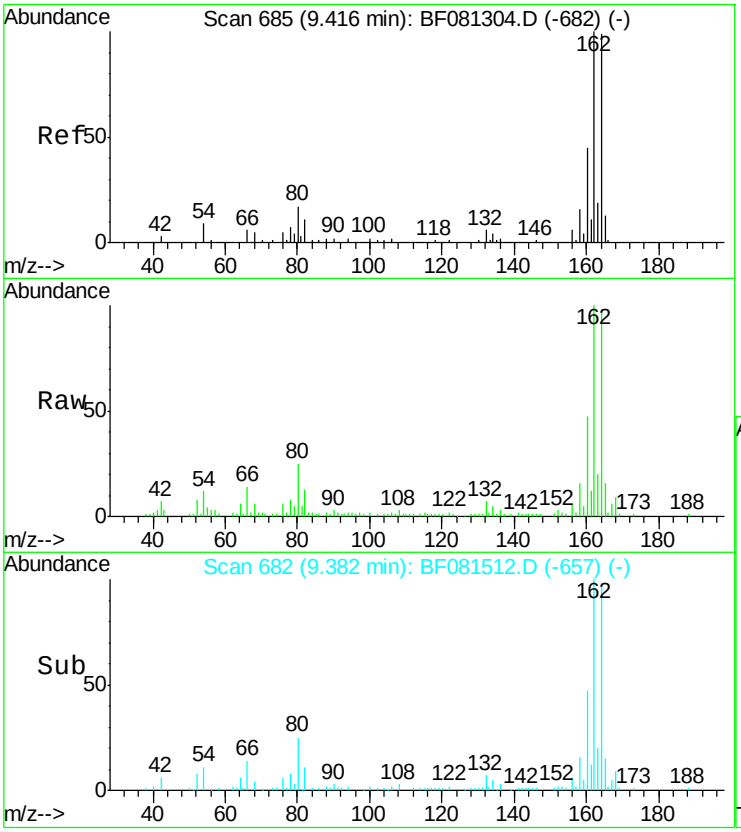



#31
Naphthalene
Concen: 2.32 ng
RT: 7.67 min Scan# 532
Delta R.T. -0.01 min
Lab File: BF081512.D
Acq: 6 Sep 2015 16:20

Tgt Ion:128 Resp: 25502

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 10.7 | 8.4 | 12.6 |
| 127 | 13.5 | 9.9 | 14.9 |

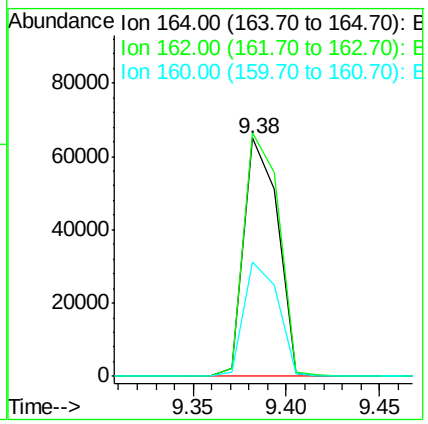





#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.38 min Scan# 682
Delta R.T. -0.01 min
Lab File: BF081512.D
Acq: 6 Sep 2015 16:20

Tgt Ion:164 Resp: 81737

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 102.2 | 75.2 | 112.8 |
| 160 | 48.1 | 31.5 | 47.3# |




**Instrument :**
BNA_F
**ClientSampleId :**
SB001

**Manual Integrations APPROVED**
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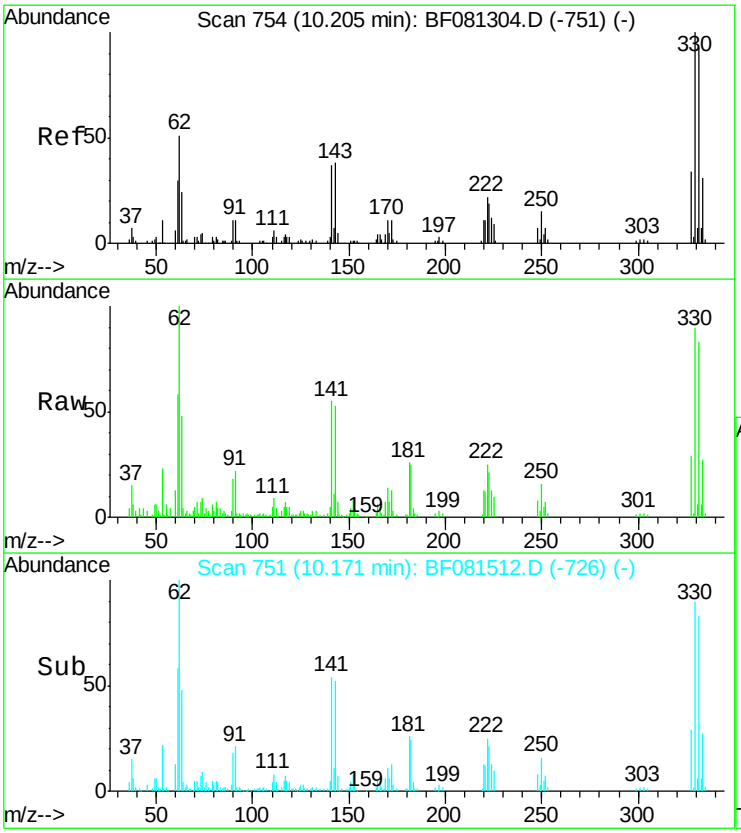
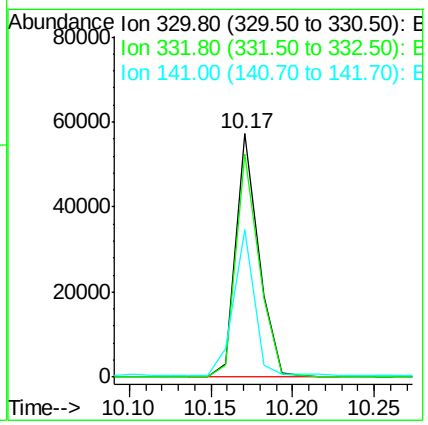
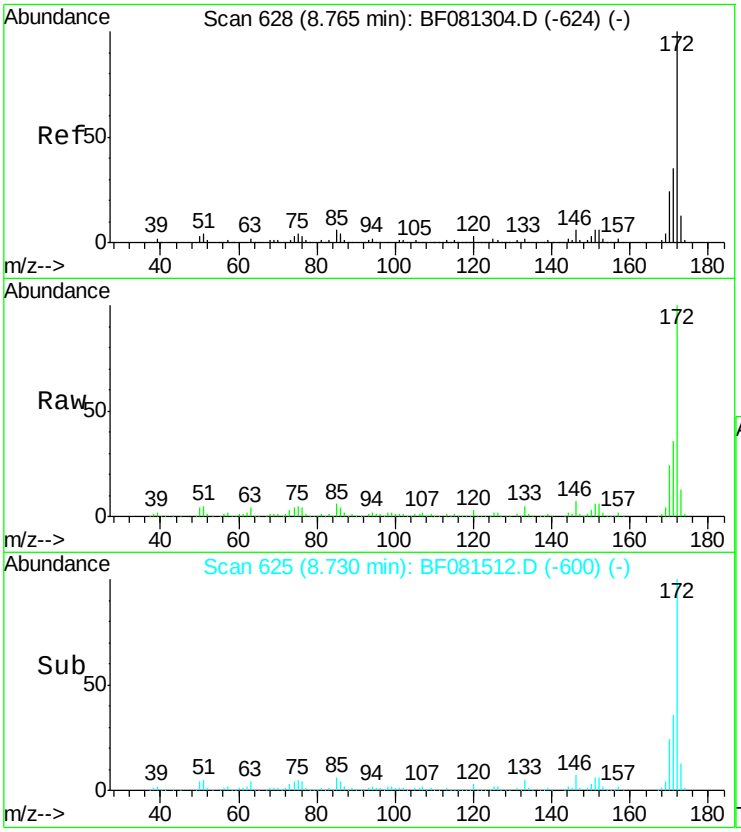



#41
2,4,6-Tribromophenol
Concen: 75.84 ng
RT: 10.17 min Scan# 751
Delta R.T. -0.01 min
Lab File: BF081512.D
Acq: 6 Sep 2015 16:20

Tgt Ion:330 Resp: 55197

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 93.0 | 76.6 | 114.8 |
| 141 | 55.3 | 29.7 | 44.5# |

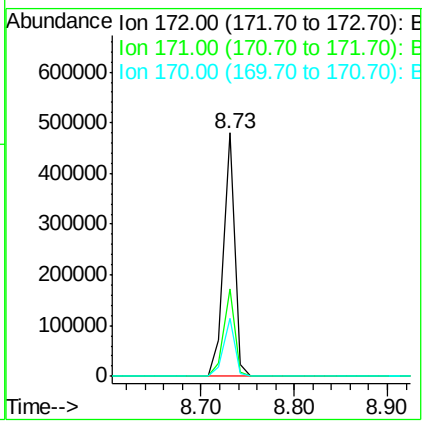





#44
2-Fluorobiphenyl
Concen: 62.54 ng
RT: 8.73 min Scan# 625
Delta R.T. -0.01 min
Lab File: BF081512.D
Acq: 6 Sep 2015 16:20

Tgt Ion:172 Resp: 398893

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.9 | 26.1 | 39.1 |
| 170 | 24.0 | 17.4 | 26.2 |




**Instrument :**
BNA_F
**ClientSampleId :**
SB001

**Manual Integrations APPROVED**
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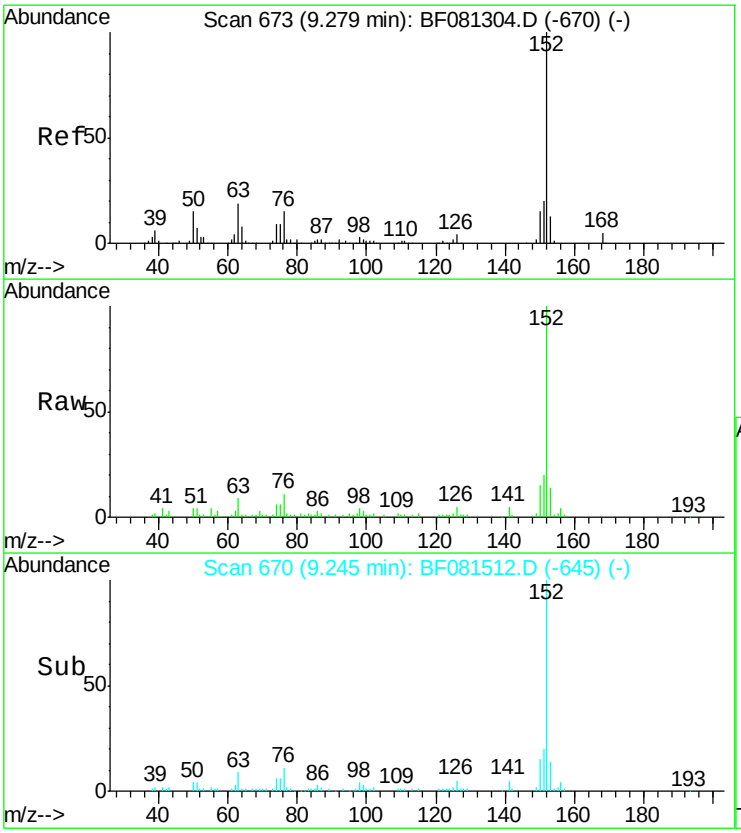
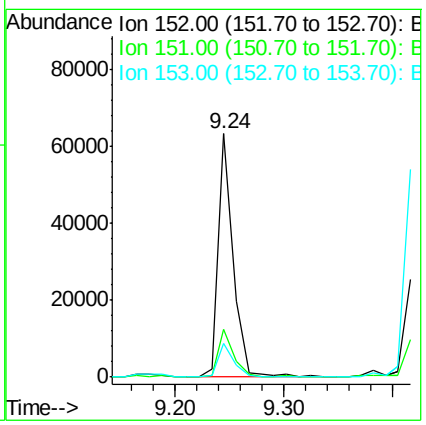
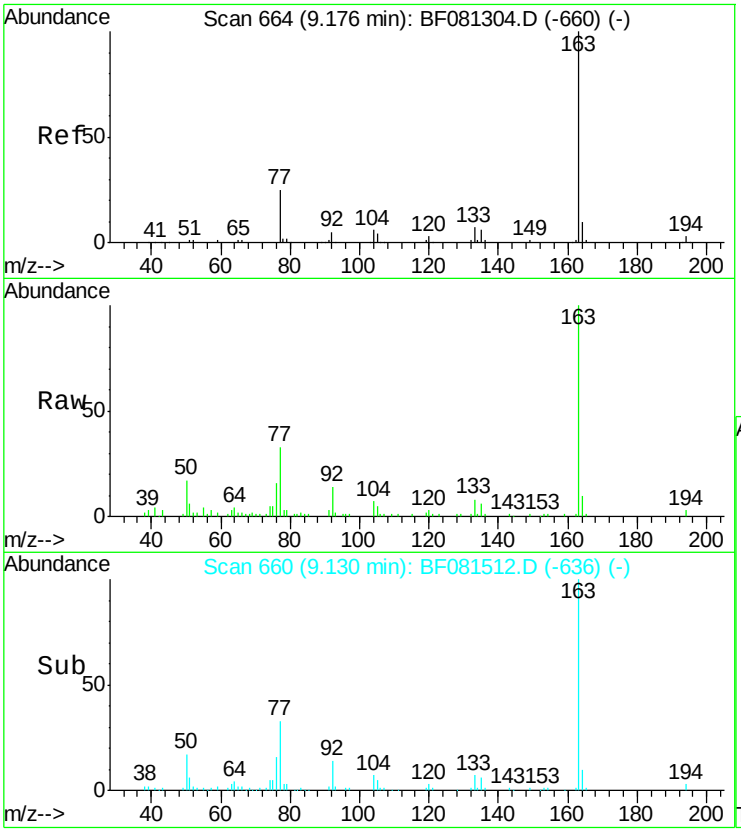



#48
Acenaphthylene
Concen: 6.30 ng
RT: 9.24 min Scan# 670
Delta R.T. -0.01 min
Lab File: BF081512.D
Acq: 6 Sep 2015 16:20

Tgt Ion:152 Resp: 60733

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 19.9 | 14.6 | 22.0 |
| 153 | 13.9 | 10.3 | 15.5 |

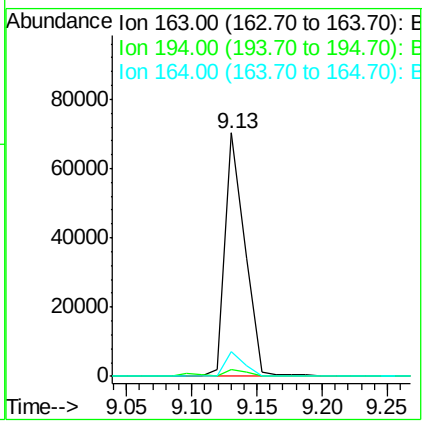





#49
Dimethylphthalate
Concen: 11.72 ng
RT: 9.13 min Scan# 660
Delta R.T. -0.02 min
Lab File: BF081512.D
Acq: 6 Sep 2015 16:20

Tgt Ion:163 Resp: 74453

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 163 | 100 | | |
| 194 | 2.9 | 4.4 | 6.6# |
| 164 | 10.4 | 8.3 | 12.5 |




**Instrument :**
BNA_F
**ClientSampleId :**
SB001

**Manual Integrations APPROVED**
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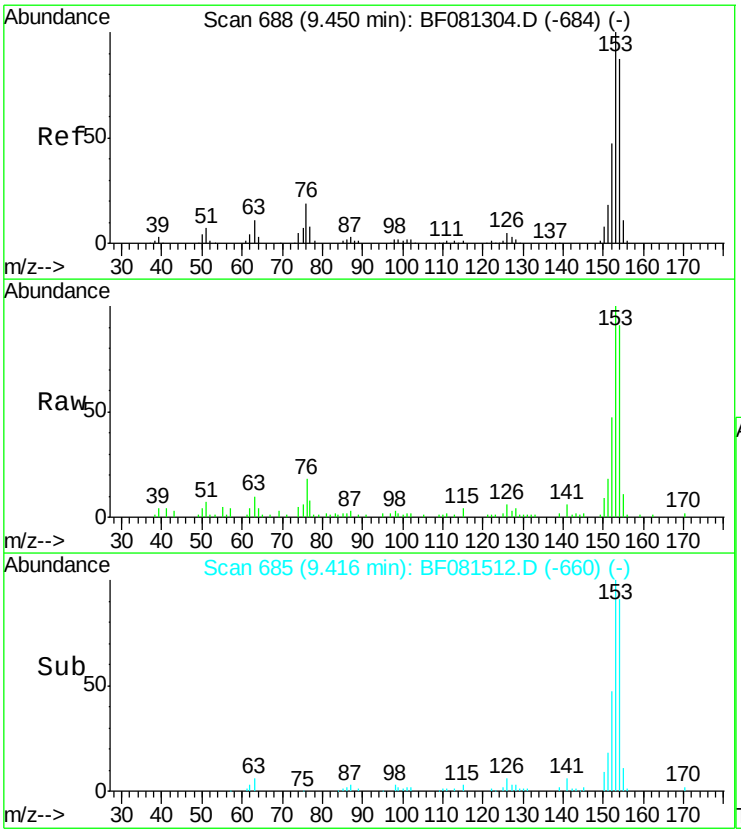
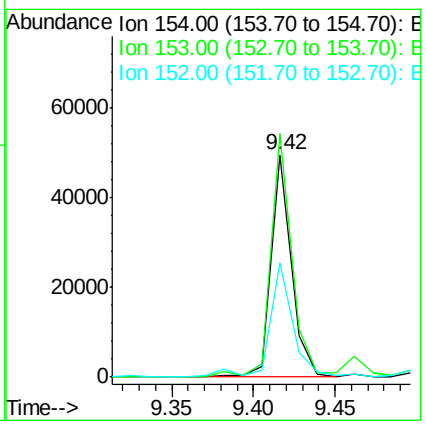
9/8/2015 3:58:43 PM

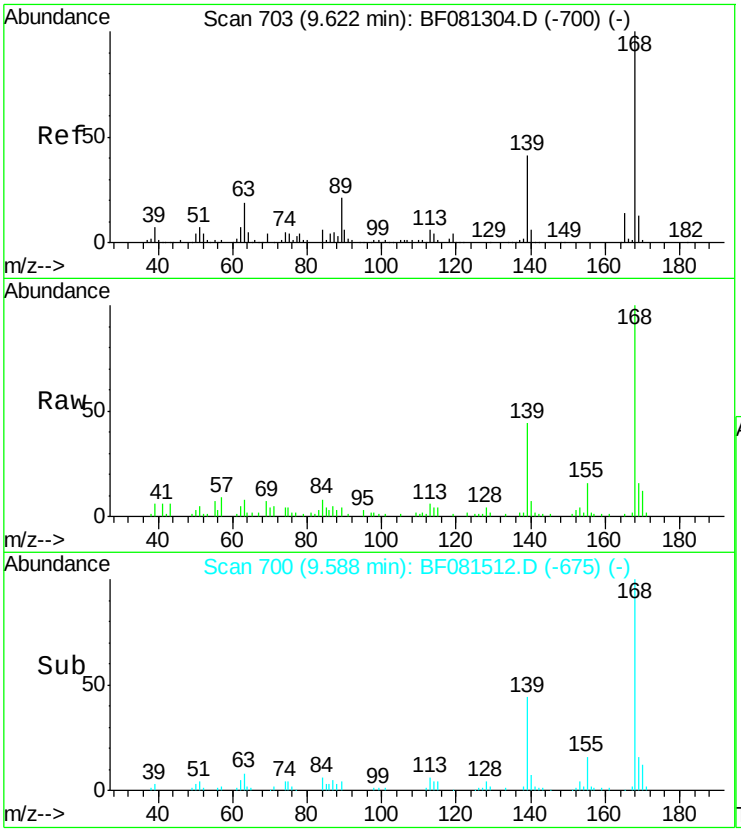



#51
Acenaphthene
Concen: 7.85 ng
RT: 9.42 min Scan# 685
Delta R.T. -0.01 min
Lab File: BF081512.D
Acq: 6 Sep 2015 16:20

Tgt Ion:154 Resp: 43001

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 109.5 | 82.1 | 123.1 |
| 152 | 51.4 | 37.9 | 56.9 |

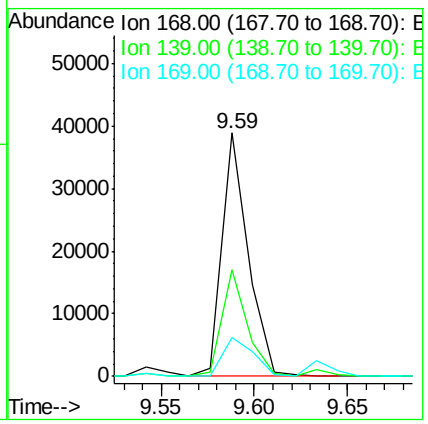





#54
Dibenzofuran
Concen: 4.79 ng
RT: 9.59 min Scan# 700
Delta R.T. -0.01 min
Lab File: BF081512.D
Acq: 6 Sep 2015 16:20

Tgt Ion:168 Resp: 38338

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 43.6 | 24.2 | 36.2# |
| 169 | 15.8 | 10.6 | 15.8 |




**Instrument :**
BNA_F
**ClientSampleId :**
SB001

**Manual Integrations APPROVED**
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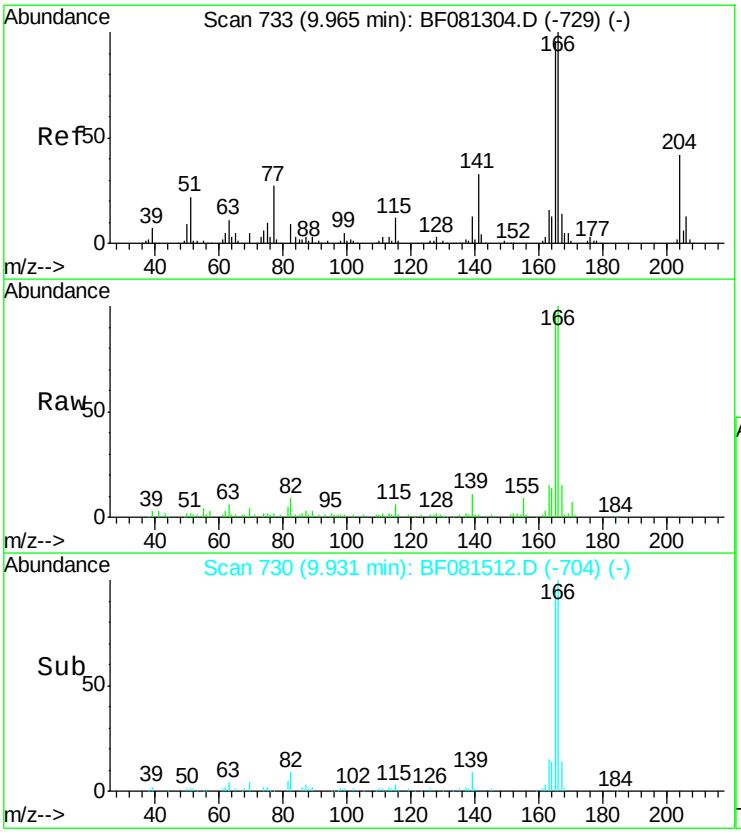
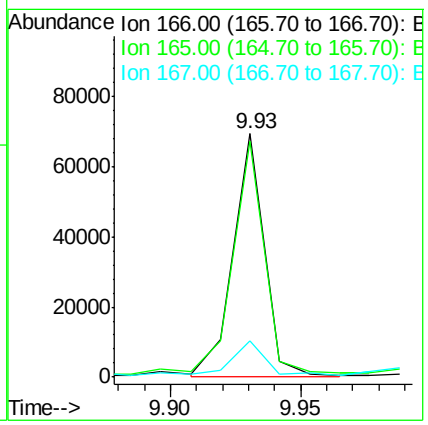
9/8/2015 3:58:43 PM

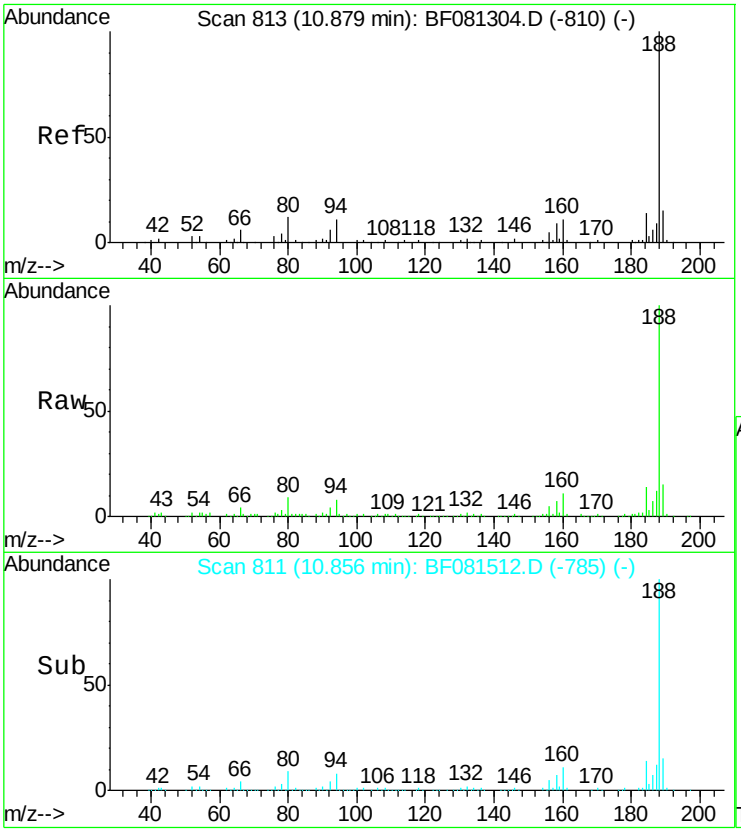



#57
Fluorene
Concen: 9.62 ng m
RT: 9.93 min Scan# 730
Delta R.T. 0.00 min
Lab File: BF081512.D
Acq: 6 Sep 2015 16:20

Tgt Ion:166 Resp: 58454

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 97.1 | 72.6 | 109.0 |
| 167 | 15.1 | 10.6 | 16.0 |

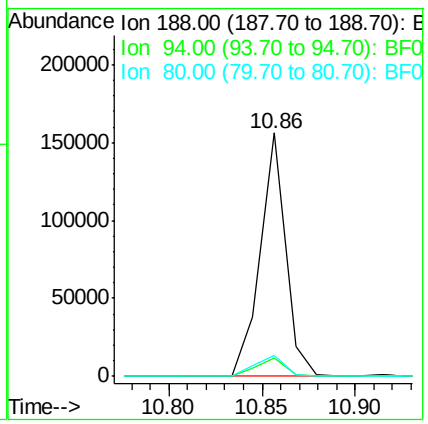





#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 10.86 min Scan# 811
Delta R.T. 0.00 min
Lab File: BF081512.D
Acq: 6 Sep 2015 16:20

Tgt Ion:188 Resp: 147226

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 7.6 | 11.1 | 16.7# |
| 80 | 8.5 | 11.0 | 16.4# |




**Instrument :**
BNA_F
**ClientSampleId :**
SB001

**Manual Integrations APPROVED**
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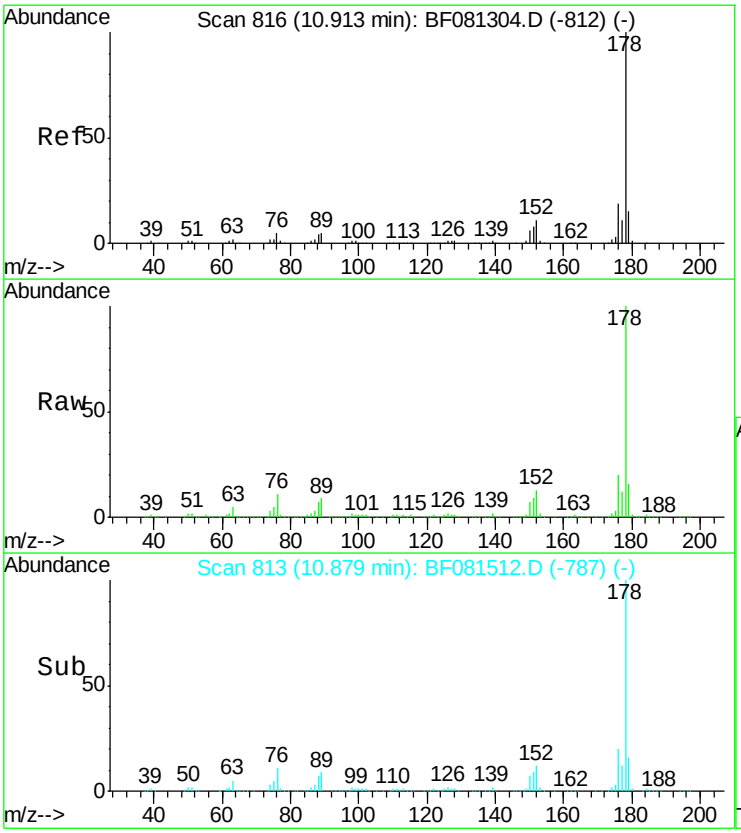
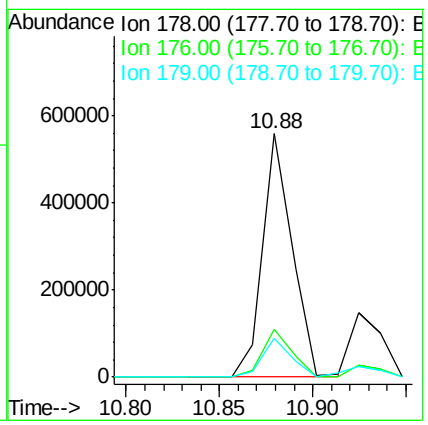
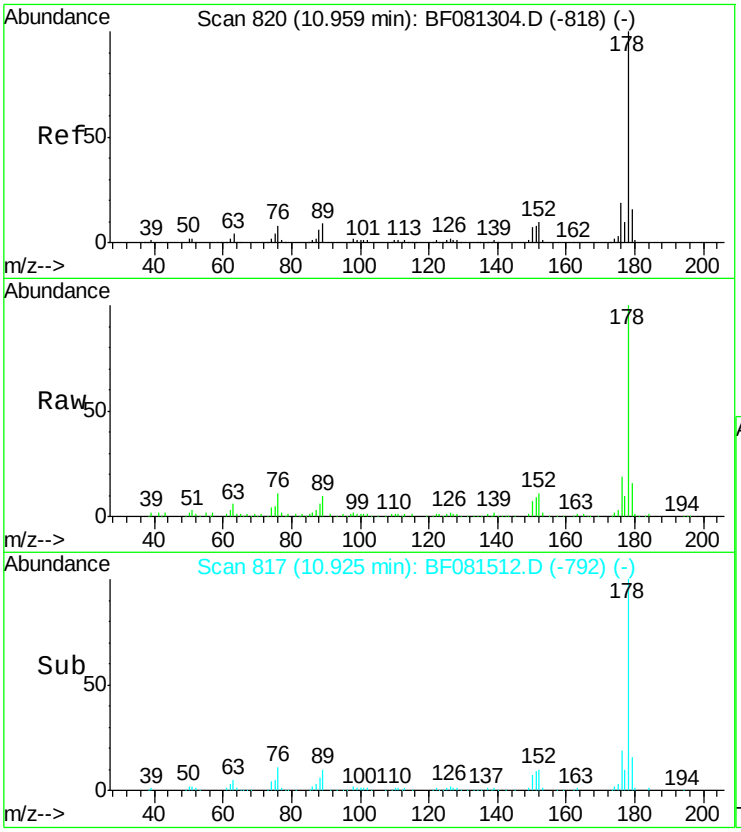



#70
Phenanthrene
Concen: 74.98 ng
RT: 10.88 min Scan# 813
Delta R.T. 0.00 min
Lab File: BF081512.D
Acq: 6 Sep 2015 16:20

Tgt Ion:178 Resp: 613684

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.7 | 13.8 | 20.8 |
| 179 | 15.8 | 12.2 | 18.2 |

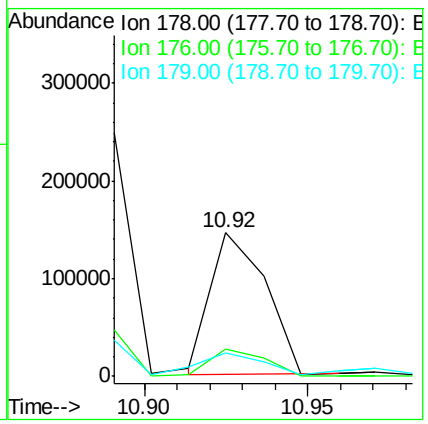





#71
Anthracene
Concen: 20.01 ng
RT: 10.92 min Scan# 817
Delta R.T. -0.01 min
Lab File: BF081512.D
Acq: 6 Sep 2015 16:20

Tgt Ion:178 Resp: 168263

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.6 | 14.1 | 21.1 |
| 179 | 16.4 | 12.2 | 18.2 |




**Instrument :**
BNA_F
**ClientSampleId :**
SB001

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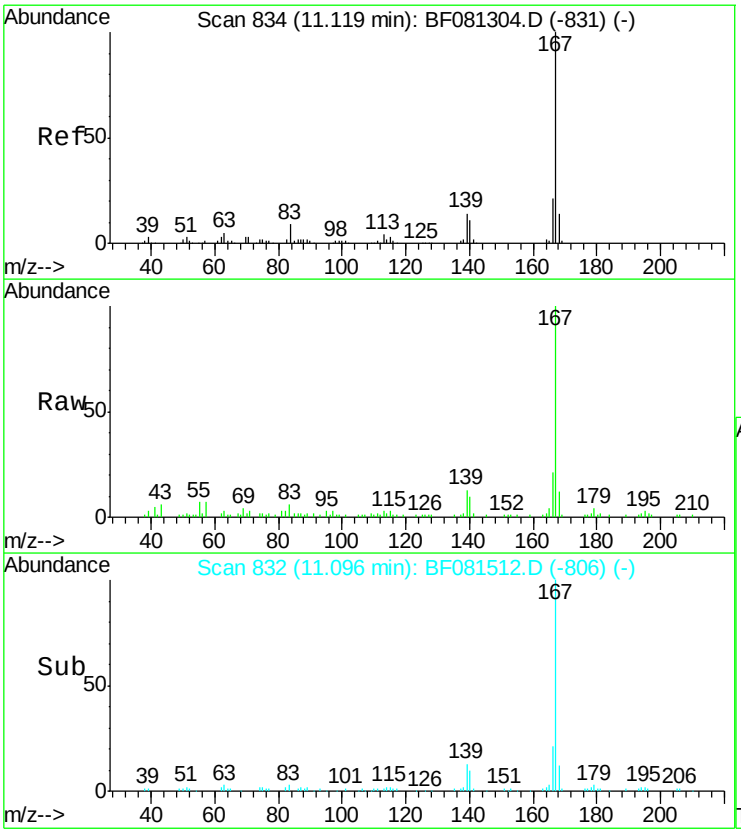
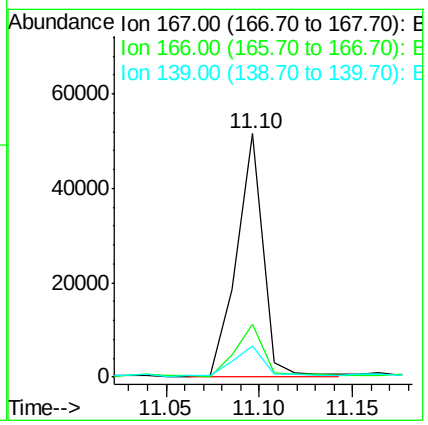
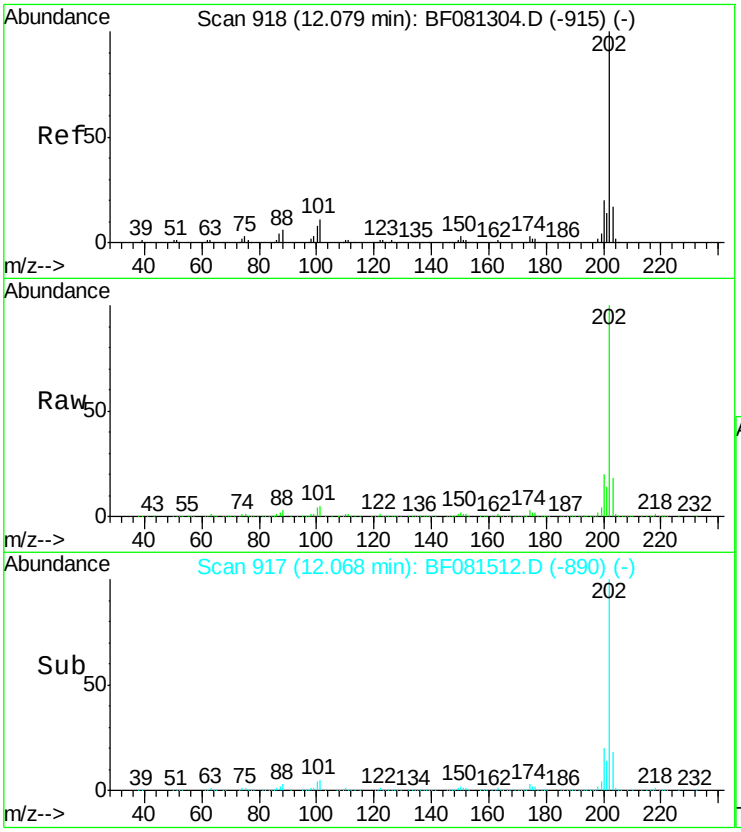



#72
Carbazole
Concen: 6.59 ng
RT: 11.10 min Scan# 832
Delta R.T. 0.00 min
Lab File: BF081512.D
Acq: 6 Sep 2015 16:20

Tgt Ion:167 Resp: 52031

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 21.5 | 15.7 | 23.5 |
| 139 | 13.0 | 9.5 | 14.3 |

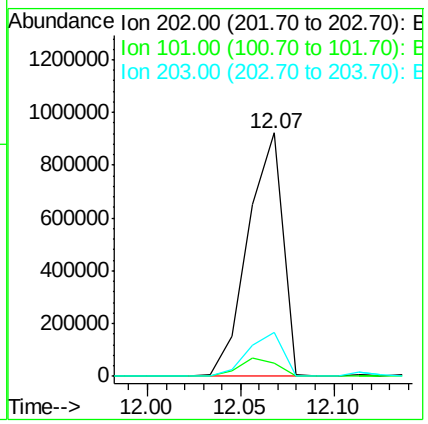





#74
Fluoranthene
Concen: 134.45 ng
RT: 12.07 min Scan# 917
Delta R.T. 0.01 min
Lab File: BF081512.D
Acq: 6 Sep 2015 16:20

Tgt Ion:202 Resp: 1191328

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 5.5 | 0.0 | 38.3 |
| 203 | 18.0 | 0.0 | 37.3 |




**Instrument :**
BNA_F
**ClientSampleId :**
SB001

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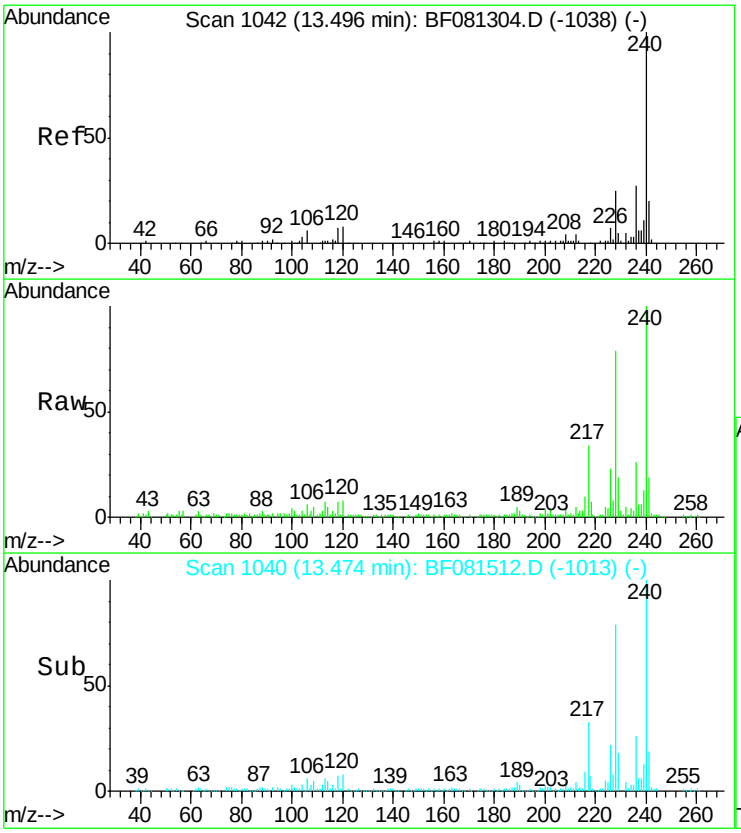
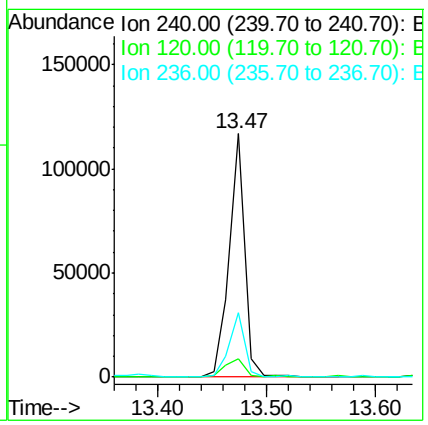
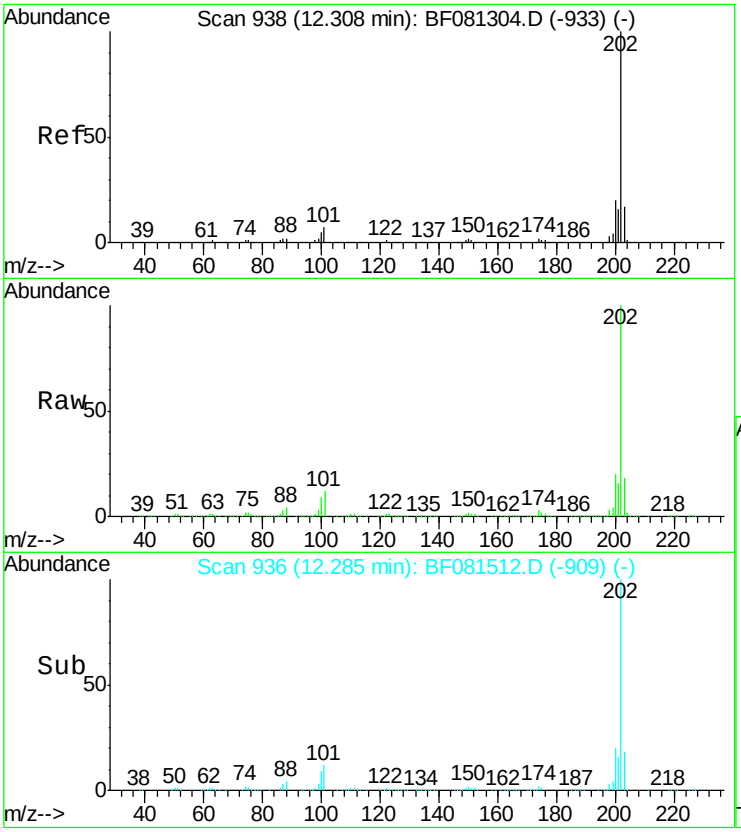



#75
Chrysene-d12
Concen: 20.00 ng
RT: 13.47 min Scan# 1040
Delta R.T. 0.01 min
Lab File: BF081512.D
Acq: 6 Sep 2015 16:20

Tgt Ion:240 Resp: 116324

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 7.8 | 16.2 | 24.2# |
| 236 | 26.4 | 18.4 | 27.6 |

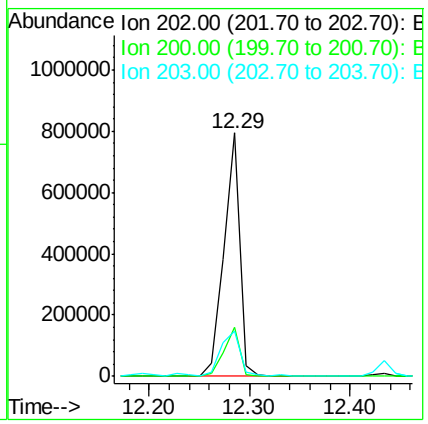





#77
Pyrene
Concen: 100.55 ng
RT: 12.29 min Scan# 936
Delta R.T. 0.01 min
Lab File: BF081512.D
Acq: 6 Sep 2015 16:20

Tgt Ion:202 Resp: 866399

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 20.2 | 15.0 | 22.4 |
| 203 | 18.4 | 14.1 | 21.1 |




**Instrument :**
BNA_F
**ClientSampleId :**
SB001

**Manual Integrations APPROVED**
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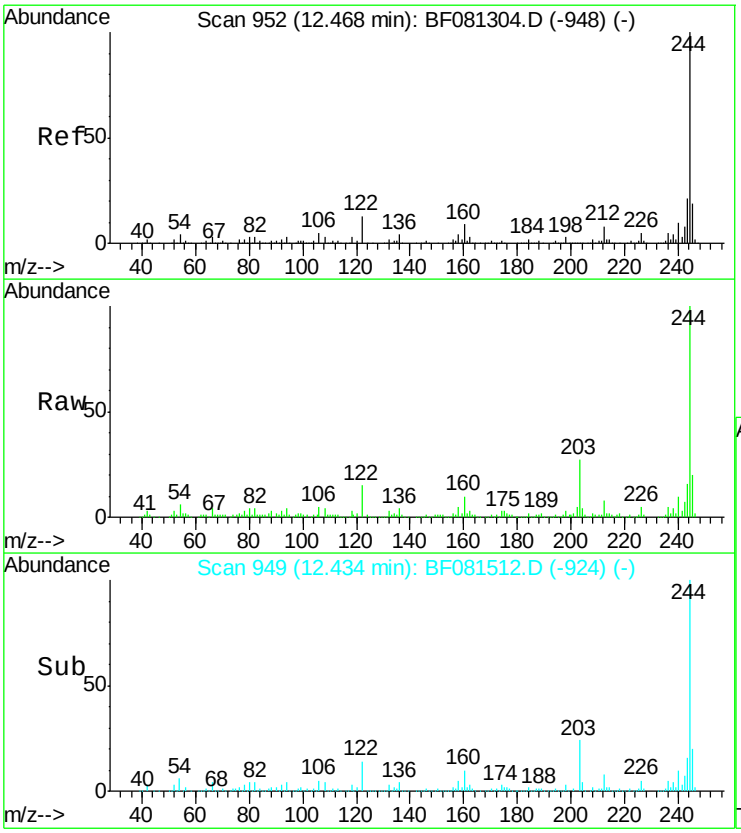
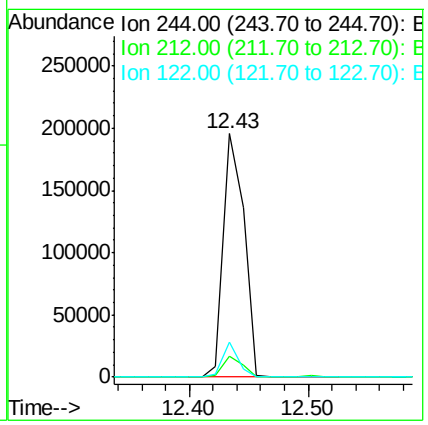
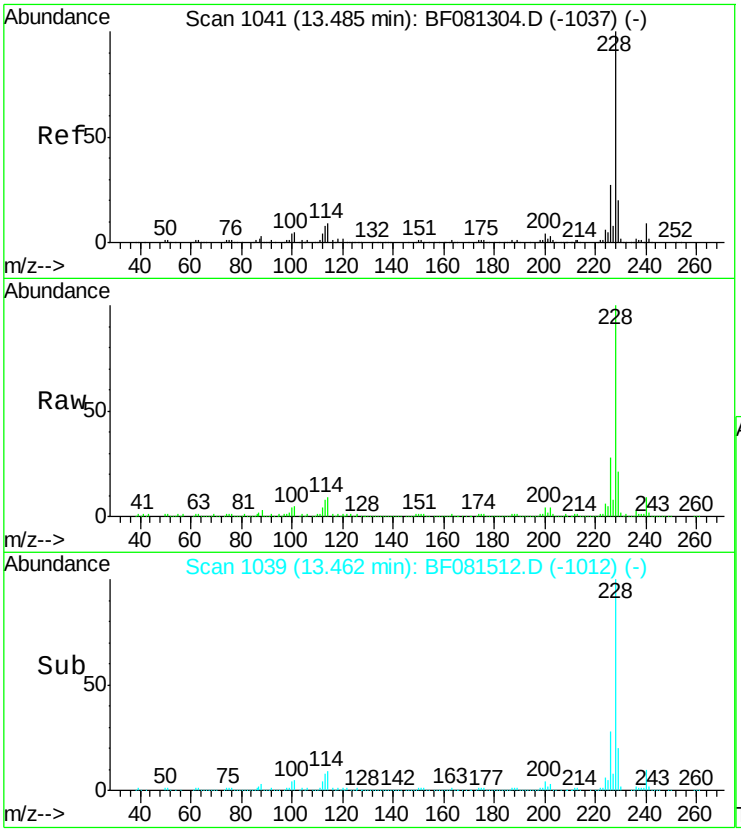



#78
Terphenyl-d14
Concen: 47.09 ng
RT: 12.43 min Scan# 949
Delta R.T. -0.01 min
Lab File: BF081512.D
Acq: 6 Sep 2015 16:20

Tgt Ion:244 Resp: 235304

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 8.5 | 4.3 | 6.5# |
| 122 | 14.6 | 17.4 | 26.2# |

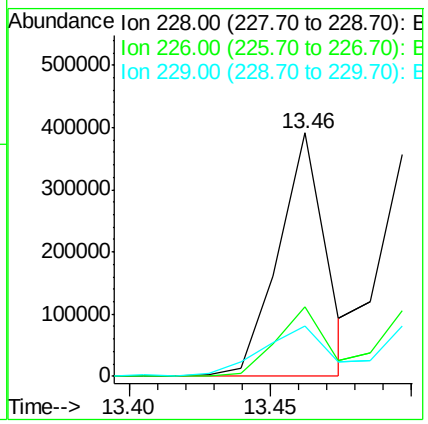





#80
Benzo(a)anthracene
Concen: 61.21 ng m
RT: 13.46 min Scan# 1039
Delta R.T. 0.01 min
Lab File: BF081512.D
Acq: 6 Sep 2015 16:20

Tgt Ion:228 Resp: 453456

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 28.3 | 20.0 | 30.0 |
| 229 | 20.6 | 15.4 | 23.2 |




**Instrument :**
BNA_F
**ClientSampleId :**
SB001

**Manual Integrations APPROVED**
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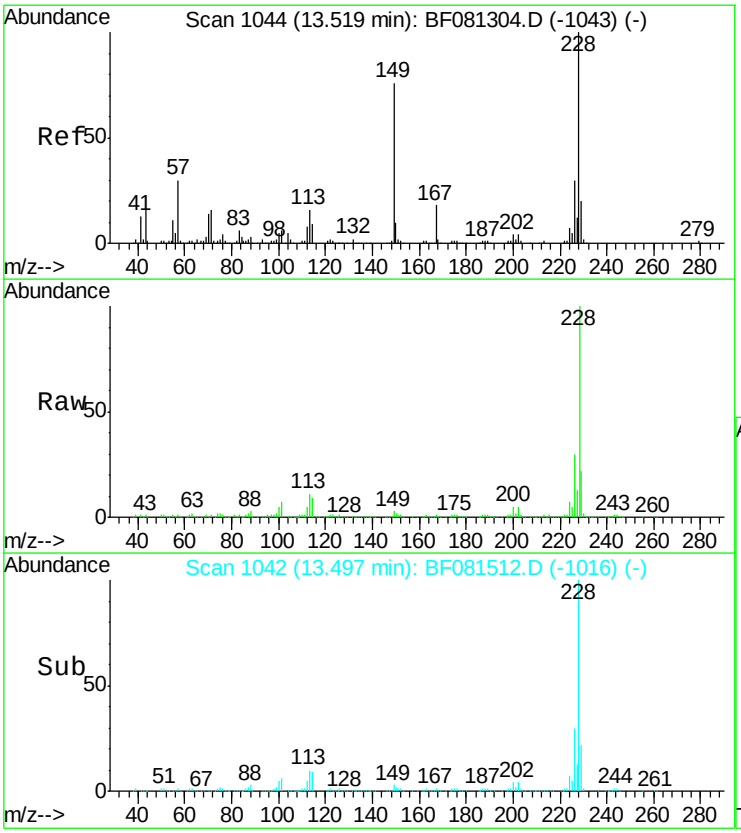
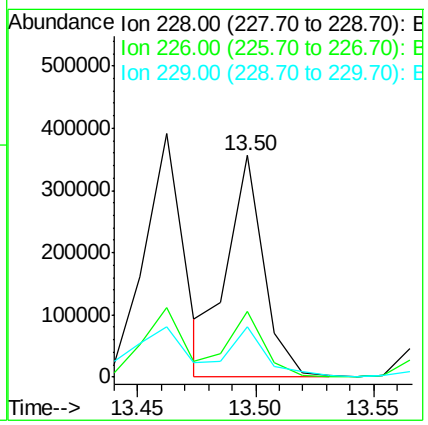
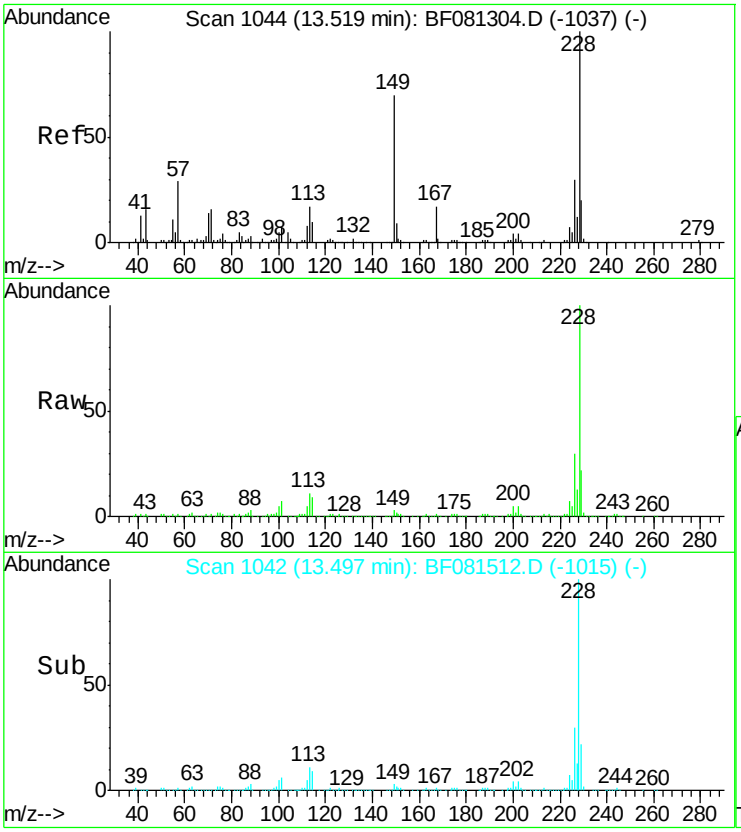



#82
Chrysene
Concen: 57.32 ng m
RT: 13.50 min Scan# 1042
Delta R.T. 0.00 min
Lab File: BF081512.D
Acq: 6 Sep 2015 16:20

Tgt Ion:228 Resp: 380618

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 29.8 | 21.0 | 31.4 |
| 229 | 22.4 | 15.6 | 23.4 |






#83
Bis(2-ethylhexyl)phthalate
Concen: 2.60 ng
RT: 13.50 min Scan# 1042
Delta R.T. 0.01 min
Lab File: BF081512.D
Acq: 6 Sep 2015 16:20

Tgt Ion:149 Resp: 12837

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 24.4 | 24.2 | 36.2 |
| 279 | 0.0 | 3.8 | 5.6# |

**Instrument :**
BNA_F
**ClientSampleId :**
SB001

**Manual Integrations APPROVED**
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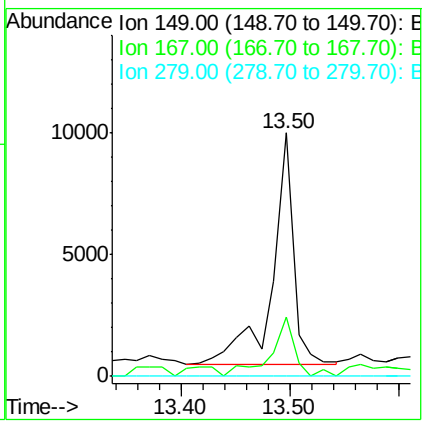
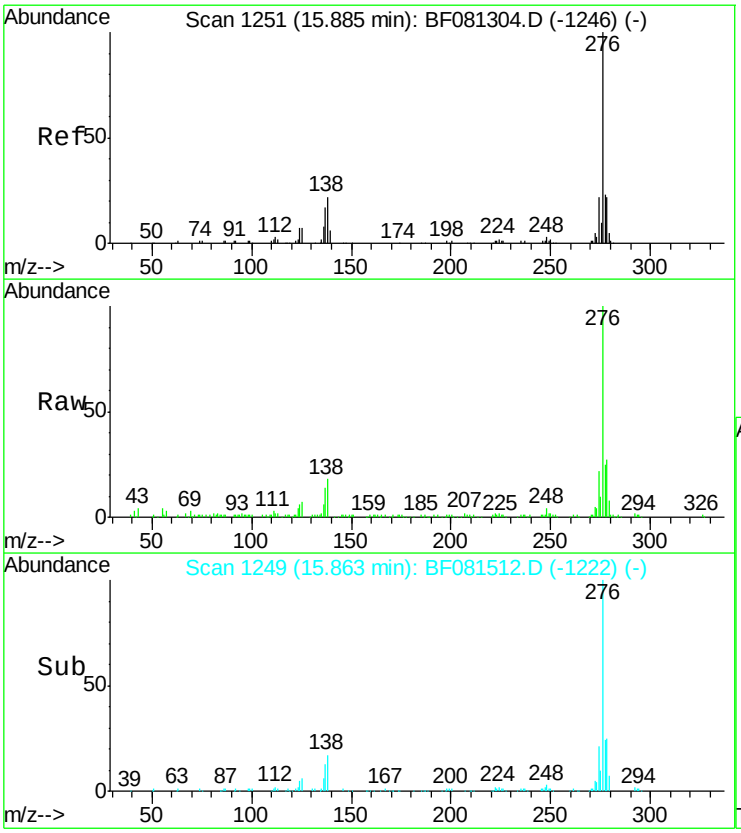
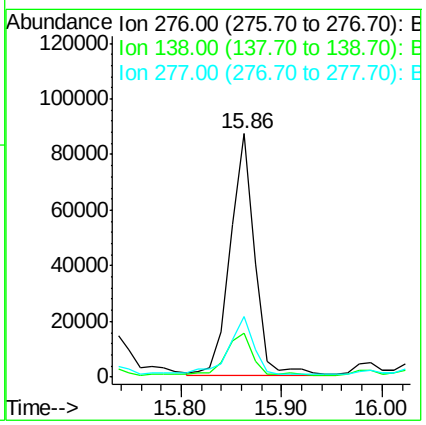


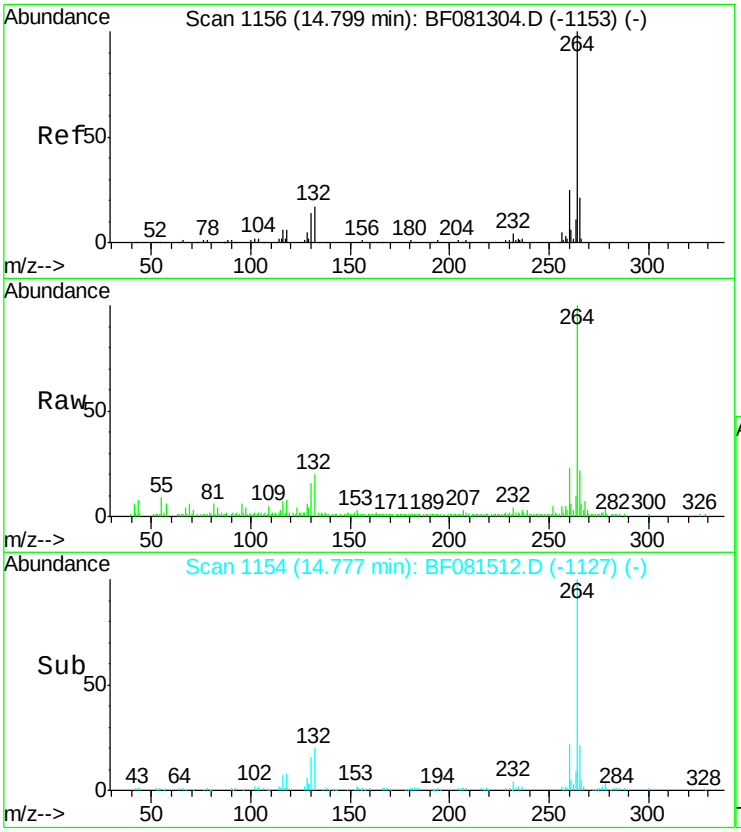




#85
Indeno(1,2,3-cd)pyrene
Concen: 30.27 ng
RT: 15.86 min Scan# 1249
Delta R.T. 0.01 min
Lab File: BF081512.D
Acq: 6 Sep 2015 16:20

Tgt Ion:276 Resp: 147459

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 17.6 | 25.7 | 38.5# |
| 277 | 25.5 | 15.6 | 23.4# |

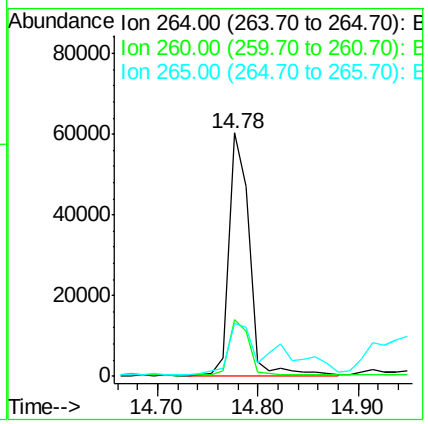





#86
Perylene-d12
Concen: 20.00 ng
RT: 14.78 min Scan# 1154
Delta R.T. 0.01 min
Lab File: BF081512.D
Acq: 6 Sep 2015 16:20

Tgt Ion:264 Resp: 85528

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 23.2 | 16.7 | 25.1 |
| 265 | 21.8 | 17.2 | 25.8 |




**Instrument :**
BNA_F
**ClientSampleId :**
SB001

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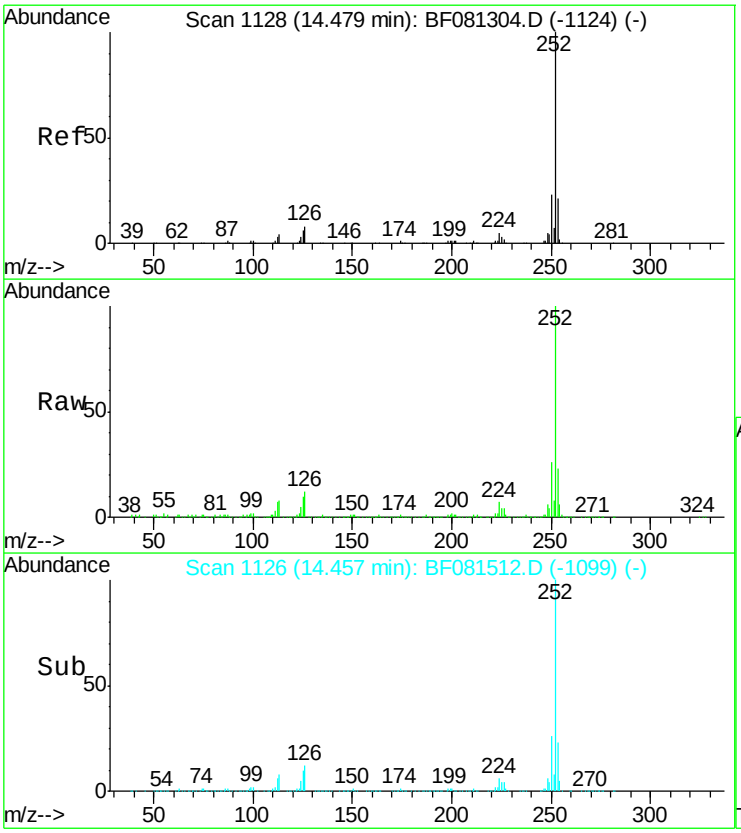
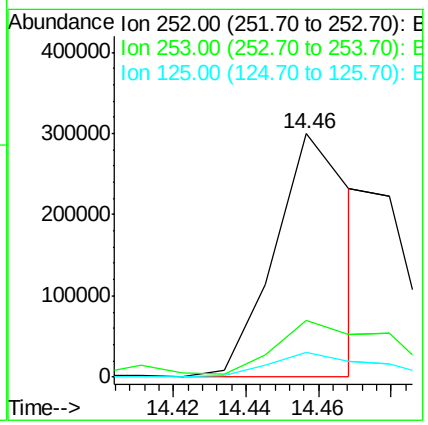
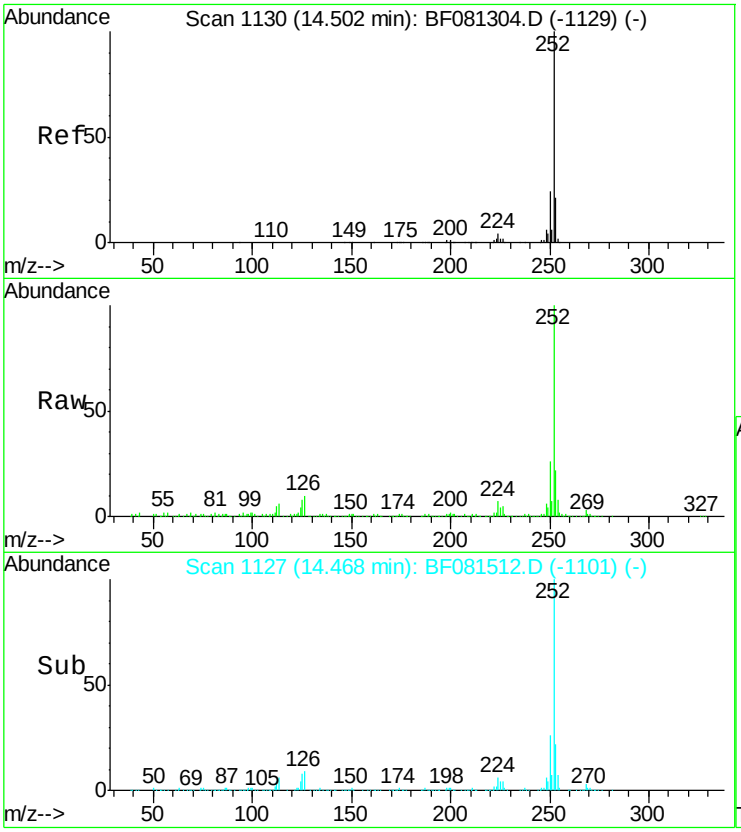



#87
Benzo(b)fluoranthene
Concen: 73.35 ng m
RT: 14.46 min Scan# 1126
Delta R.T. 0.01 min
Lab File: BF081512.D
Acq: 6 Sep 2015 16:20

Tgt Ion:252 Resp: 447891

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 23.2 | 17.5 | 26.3 |
| 125 | 10.2 | 17.1 | 25.7# |






#88
Benzo(k)fluoranthene
Concen: 32.77 ng m
RT: 14.47 min Scan# 1127
Delta R.T. 0.00 min
Lab File: BF081512.D
Acq: 6 Sep 2015 16:20

Tgt Ion:252 Resp: 166029

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.4 | 17.0 | 25.4 |
| 125 | 8.4 | 16.0 | 24.0# |

**Instrument :**
BNA_F
**ClientSampleId :**
SB001

**Manual Integrations APPROVED**
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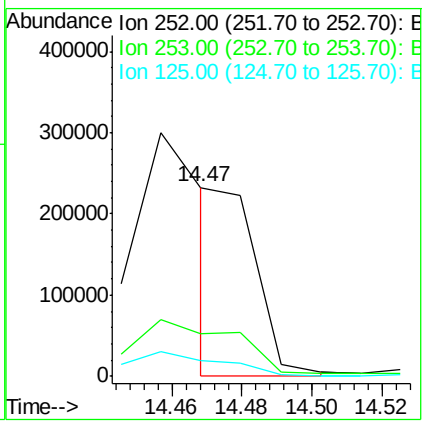
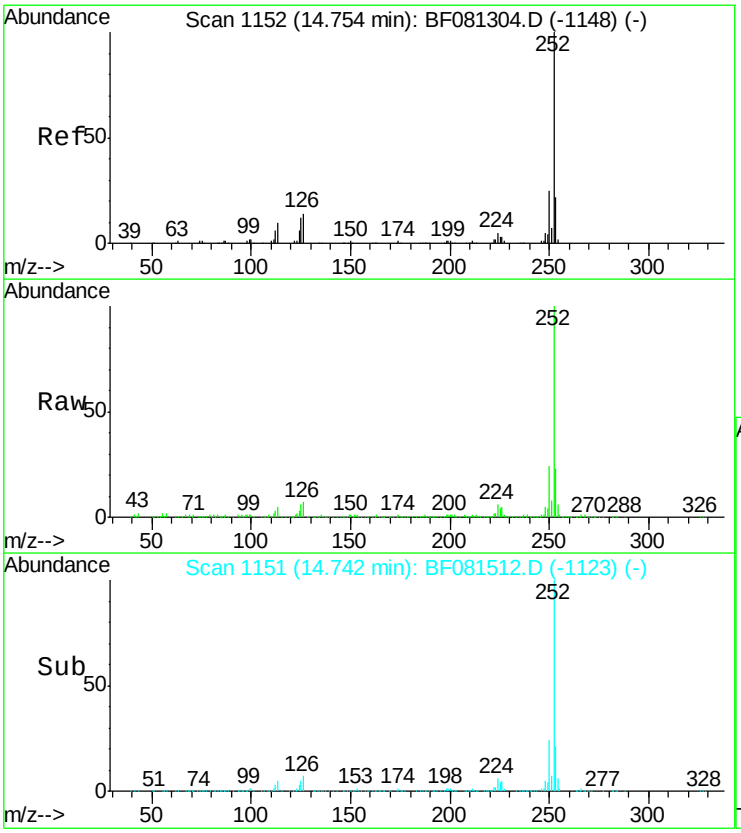
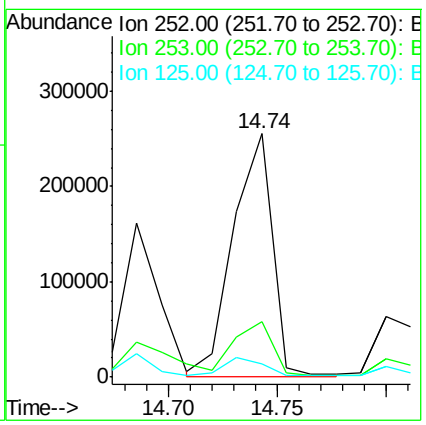


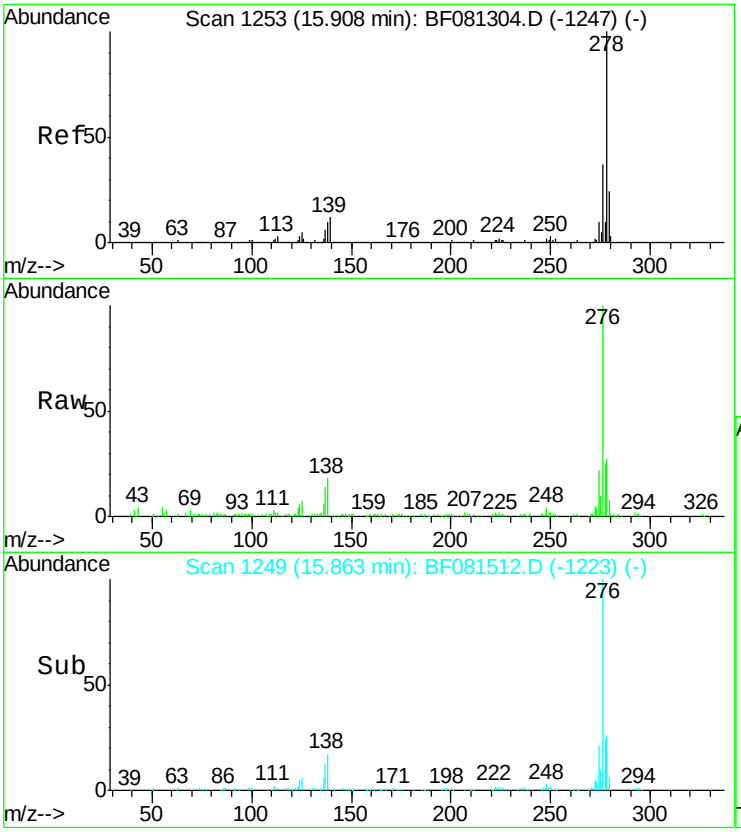




#89
Benzo(a)pyrene
Concen: 61.65 ng
RT: 14.74 min Scan# 1151
Delta R.T. 0.02 min
Lab File: BF081512.D
Acq: 6 Sep 2015 16:20

Tgt Ion:252 Resp: 318980

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.9 | 17.2 | 25.8 |
| 125 | 5.7 | 18.0 | 27.0# |






#90
Dibenzo(a,h)anthracene
Concen: 8.78 ng m
RT: 15.86 min Scan# 1249
Delta R.T. 0.00 min
Lab File: BF081512.D
Acq: 6 Sep 2015 16:20

Tgt Ion:278 Resp: 35116

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 0.0 | 26.3 | 39.5# |
| 279 | 29.1 | 18.2 | 27.4# |

**Instrument :**
BNA_F
**ClientSampleId :**
SB001

**Manual Integrations APPROVED**
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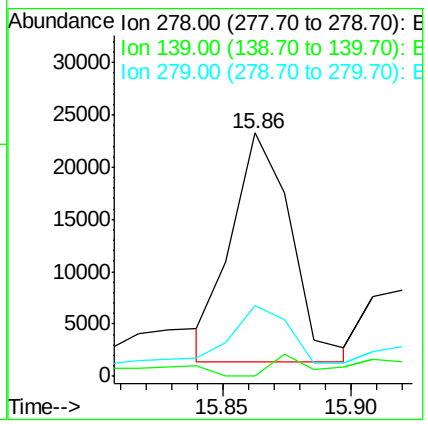


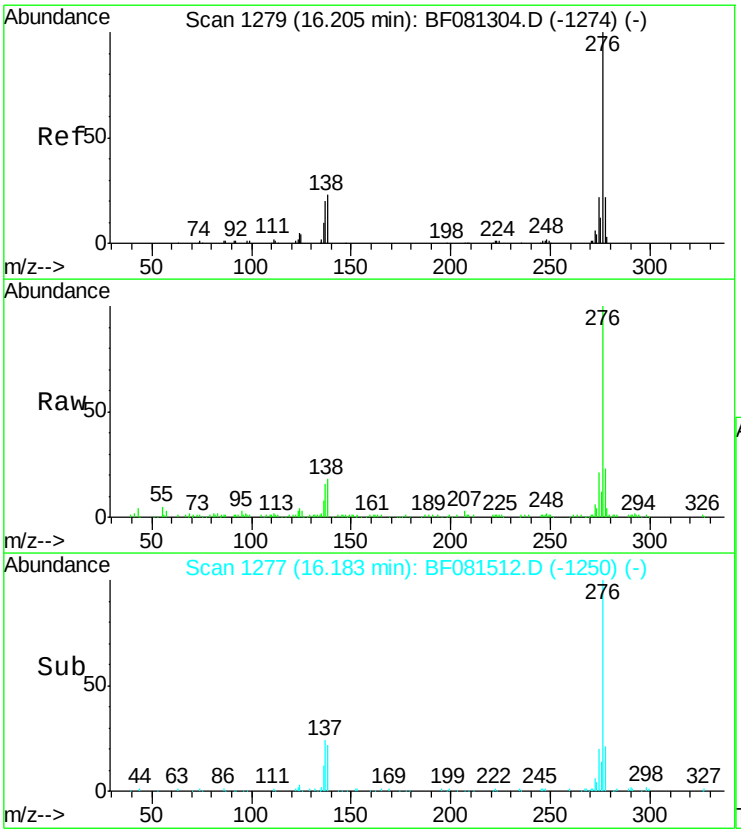


#91
Benzo(g,h,i)perylene
Concen: 33.71 ng
RT: 16.18 min Scan# 1277
Delta R.T. 0.01 min
Lab File: BF081512.D
Acq: 6 Sep 2015 16:20

Tgt Ion:276 Resp: 128621

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 23.1 | 17.8 | 26.6 |
| 138 | 17.8 | 34.6 | 51.8# |