Quantitation Report (LSC Reviewed)

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF031116\
Data File : BF085400.D
Acq On : 12 Mar 2016 5:44
Operator : UM/SJ
Sample : H1754-08
Misc :
ALS Vial : 26 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
W170TH-SB-10(0.5-2.0)

**Manual Integrations APPROVED**
UMANGI
3/14/2016 10:45:59 AM

Quant Time: Mar 14 05:51:58 2016
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF030316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Mar 04 00:54:58 2016
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 6.94 | 152 | 142905 | 20.00 | ng | | -0.05 |
| 21) Naphthalene-d8 | 8.22 | 136 | 545086 | 20.00 | ng | | -0.05 |
| 38) Acenaphthene-d10 | 9.98 | 164 | 234523 | 20.00 | ng | | -0.05 |
| 63) Phenanthrene-d10 | 11.46 | 188 | 344808 | 20.00 | ng | | -0.05 |
| 75) Chrysene-d12 | 14.11 | 240 | 259695 | 20.00 | ng | | -0.05 |
| 86) Perylene-d12 | 15.57 | 264 | 242481 | 20.00 | ng | | -0.05 |
| **System Monitoring Compounds** | | | | | | | |
| 5) 2-Fluorophenol | 5.54 | 112 | 1294351 | 151.93 | ng | | -0.03 |
| 7) Phenol-d6 | 6.57 | 99 | 1740639 | 155.95 | ng | | -0.03 |
| 23) Nitrobenzene-d5 | 7.50 | 82 | 916510 | 89.98 | ng | | -0.05 |
| 41) 2,4,6-Tribromophenol | 10.77 | 330 | 268536 | 133.82 | ng | | -0.05 |
| 44) 2-Fluorobiphenyl | 9.30 | 172 | 1586809 | 102.90 | ng | | -0.05 |
| 78) Terphenyl-d14 | 13.05 | 244 | 946286 | 84.59 | ng | | -0.03 |
| **Target Compounds** | | | | | | | Qvalue |
| 49) Dimethylphthalate | 9.69 | 163 | 179049 | 9.95 | ng | | 99 |
| 70) Phenanthrene | 11.49 | 178 | 36699 | 2.03 | ng | | 96 |
| 74) Fluoranthene | 12.68 | 202 | 66726 | 3.68 | ng | | 97 |
| 77) Pyrene | 12.91 | 202 | 63351 | 3.24 | ng | | 98 |
| 80) Benzo(a)anthracene | 14.09 | 228 | 33347m | 2.14 | ng | | |
| 82) Chrysene | 14.13 | 228 | 33588m | 2.34 | ng | | |
| 83) Bis(2-ethylhexyl)phthalate | 14.08 | 149 | 93088 | 7.98 | ng | | 99 |
| 87) Benzo(b)fluoranthene | 15.15 | 252 | 46554m | 2.88 | ng | | |
| 89) Benzo(a)pyrene | 15.50 | 252 | 30135 | 2.25 | ng | # | 90 |

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

Quantitation Report (LSC Reviewed)

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF031116\
Data File : BF085400.D
Acq On : 12 Mar 2016 5:44
Operator : UM/SJ
Sample : H1754-08
Misc :
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Mar 14 05:51:58 2016
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF030316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Mar 04 00:54:58 2016
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
W170TH-SB-10(0.5-2.0)

**Manual Integrations APPROVED**
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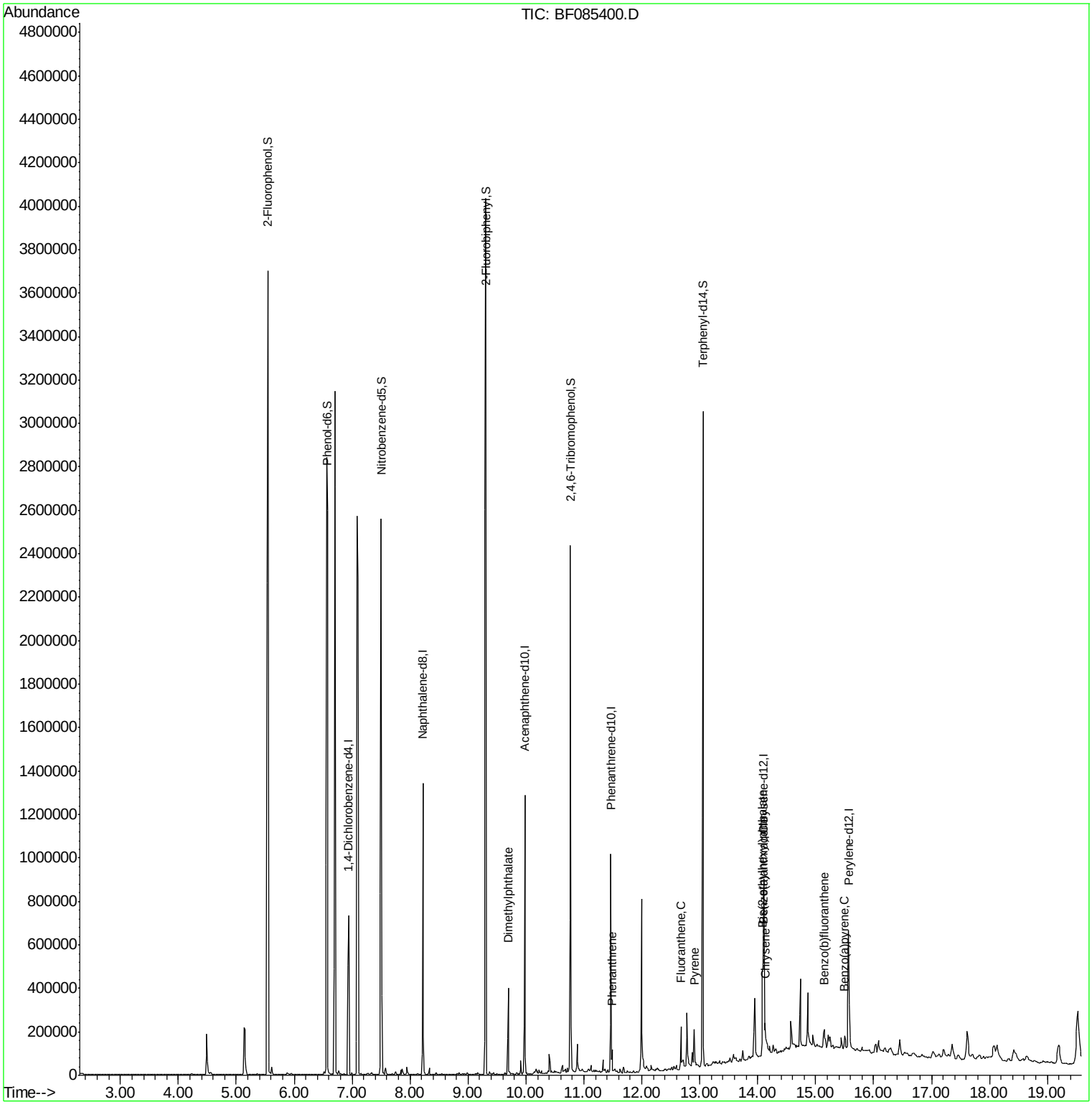
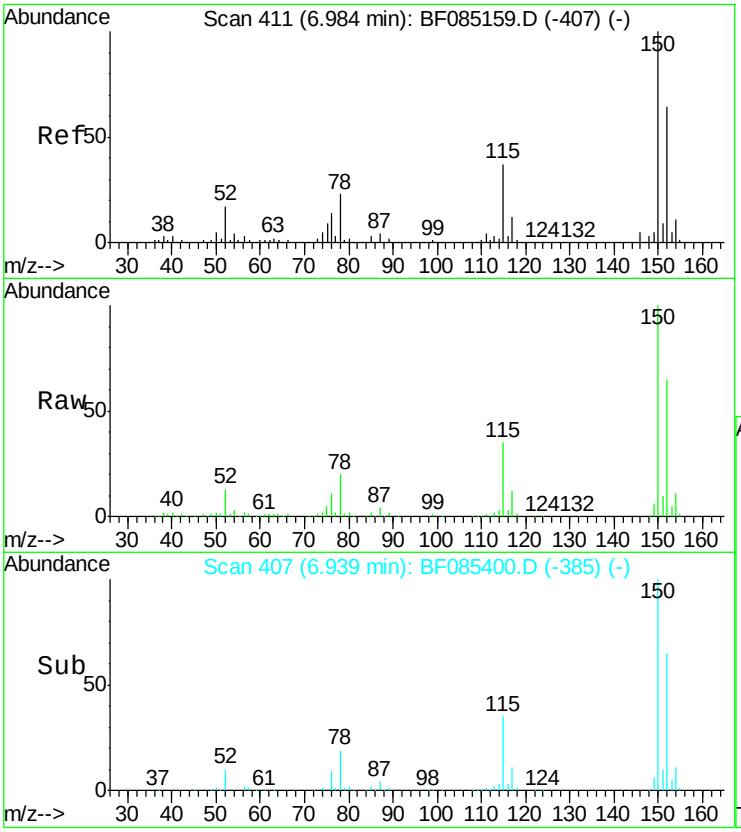
3/14/2016 10:45:59 AM

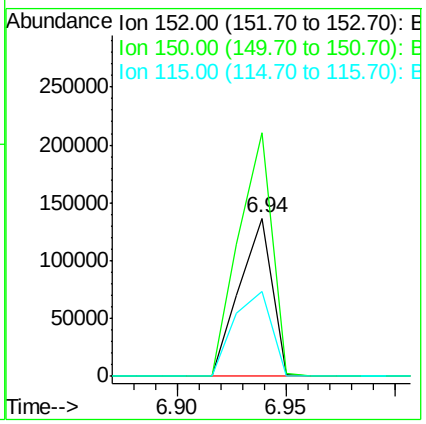





#1
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.94 min Scan# 407
Delta R.T. -0.05 min
Lab File: BF085400.D
Acq: 12 Mar 2016 5:44

Tgt Ion:152 Resp: 142905

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 153.7 | 124.6 | 186.8 |
| 115 | 53.9 | 46.6 | 70.0 |




**Instrument :**
BNA_F
**ClientSampleId :**
W170TH-SB-10(0.5-2.0)

**Manual Integrations APPROVED**
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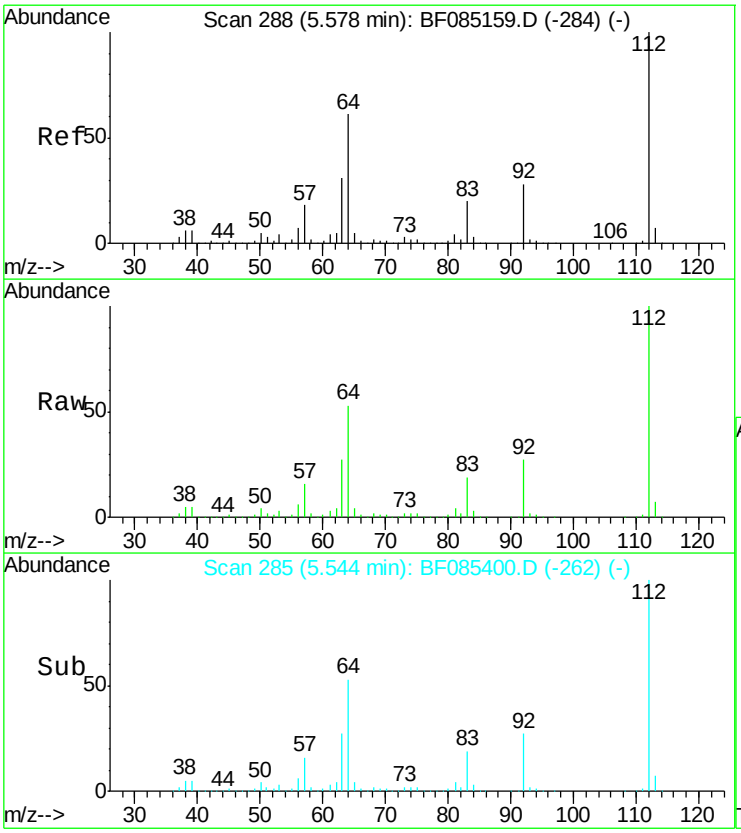
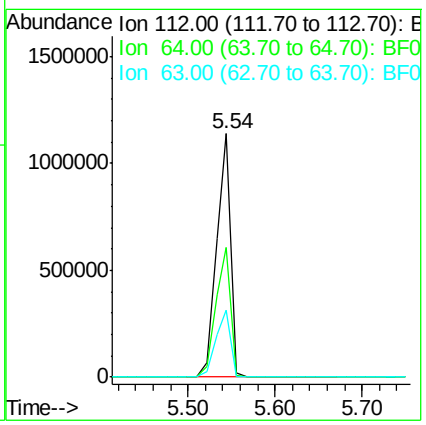
3/14/2016 10:45:59 AM

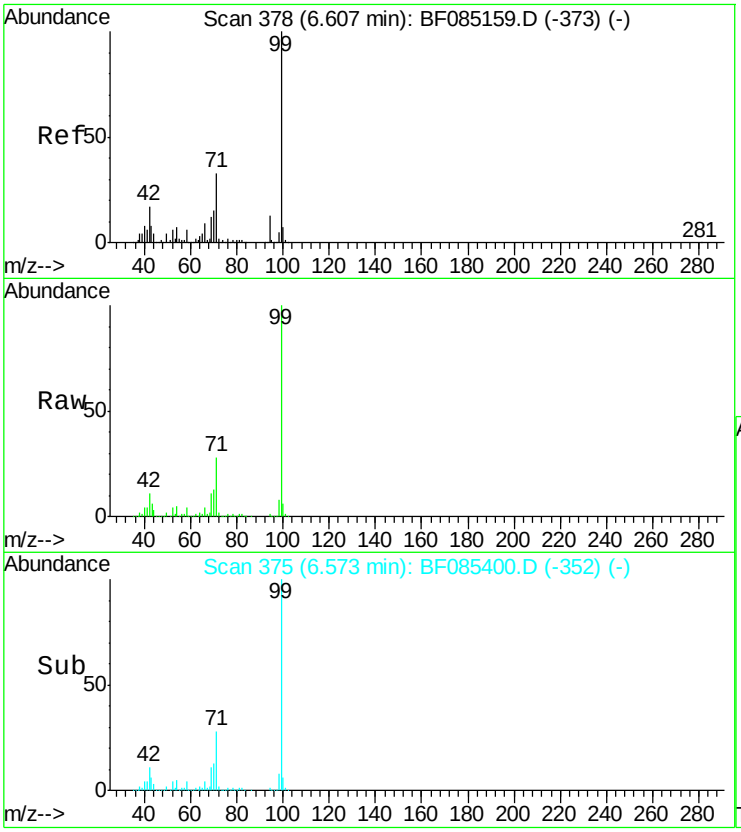



#5
2-Fluorophenol
Concen: 151.93 ng
RT: 5.54 min Scan# 285
Delta R.T. -0.03 min
Lab File: BF085400.D
Acq: 12 Mar 2016 5:44

Tgt Ion:112 Resp: 1294351

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 53.1 | 49.0 | 73.4 |
| 63 | 27.3 | 24.8 | 37.2 |

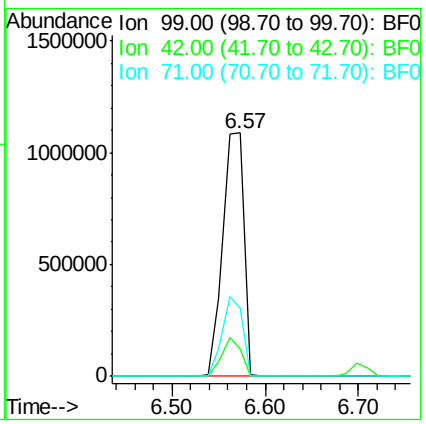





#7
Phenol-d6
Concen: 155.95 ng
RT: 6.57 min Scan# 375
Delta R.T. -0.03 min
Lab File: BF085400.D
Acq: 12 Mar 2016 5:44

Tgt Ion: 99 Resp: 1740639

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 11.2 | 13.6 | 20.4# |
| 71 | 27.8 | 26.7 | 40.1 |




**Instrument :**
BNA_F
**ClientSampleId :**
W170TH-SB-10(0.5-2.0)

**Manual Integrations APPROVED**
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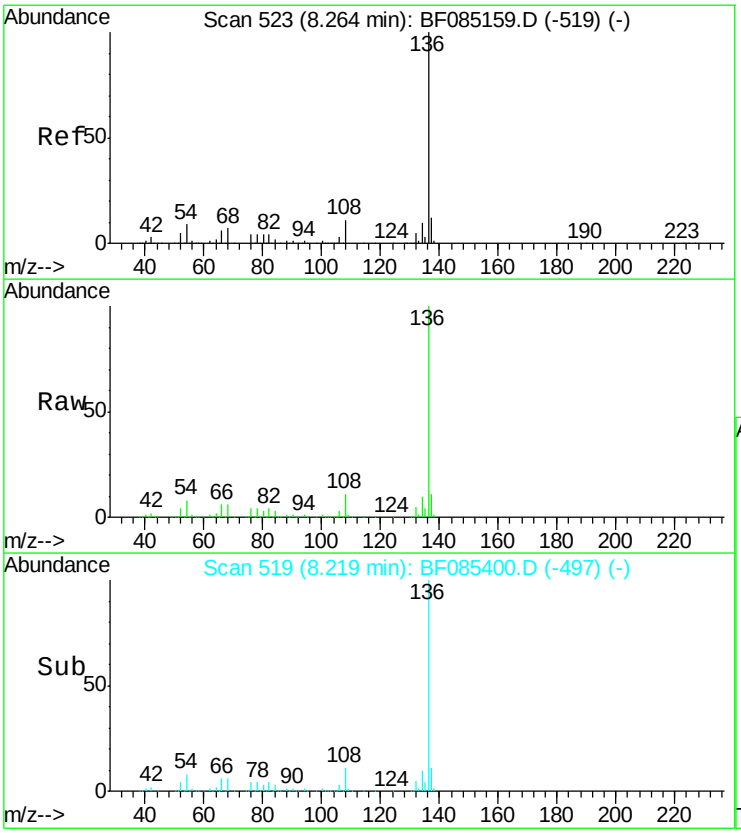
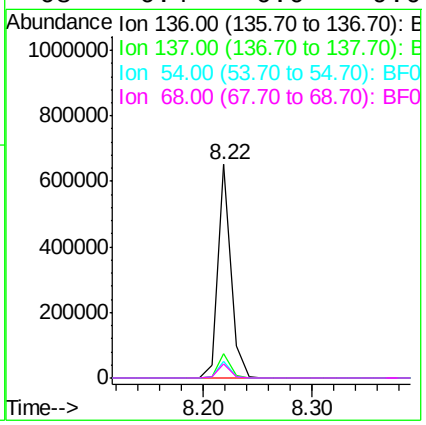
3/14/2016 10:45:59 AM

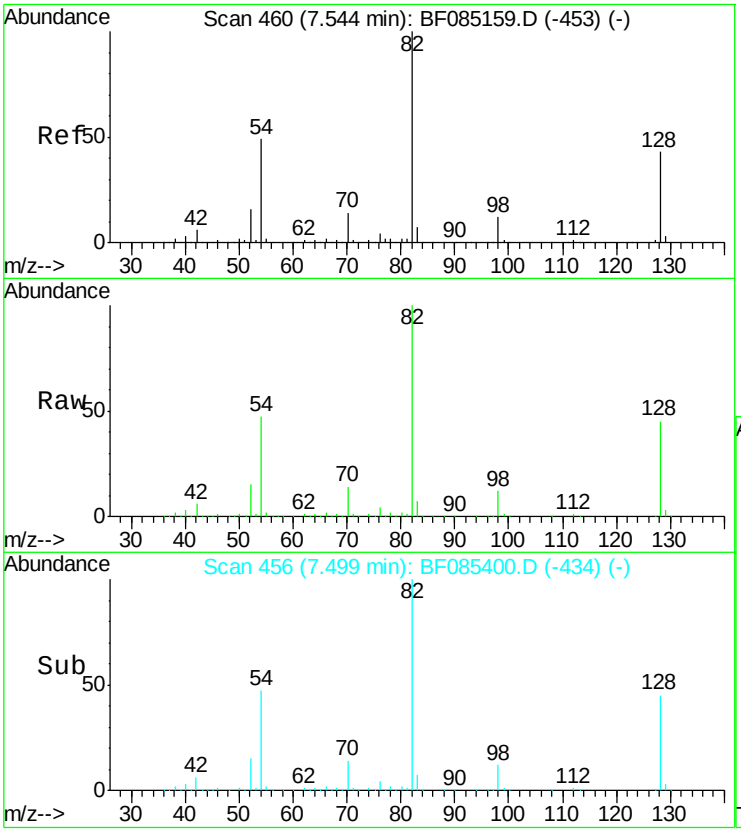



#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.22 min Scan# 519
Delta R.T. -0.05 min
Lab File: BF085400.D
Acq: 12 Mar 2016 5:44

Tgt Ion:136 Resp: 545086

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.4 | 9.3 | 13.9 |
| 54 | 7.9 | 7.4 | 11.2 |
| 68 | 6.4 | 6.0 | 9.0 |

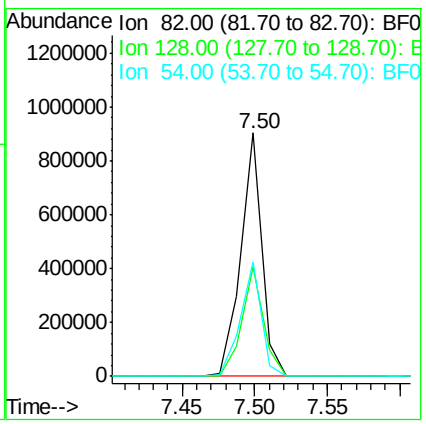





#23
Nitrobenzene-d5
Concen: 89.98 ng
RT: 7.50 min Scan# 456
Delta R.T. -0.05 min
Lab File: BF085400.D
Acq: 12 Mar 2016 5:44

Tgt Ion: 82 Resp: 916510

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 44.8 | 34.5 | 51.7 |
| 54 | 47.1 | 39.3 | 58.9 |




**Instrument :**
BNA_F
**ClientSampleId :**
W170TH-SB-10(0.5-2.0)

**Manual Integrations APPROVED**
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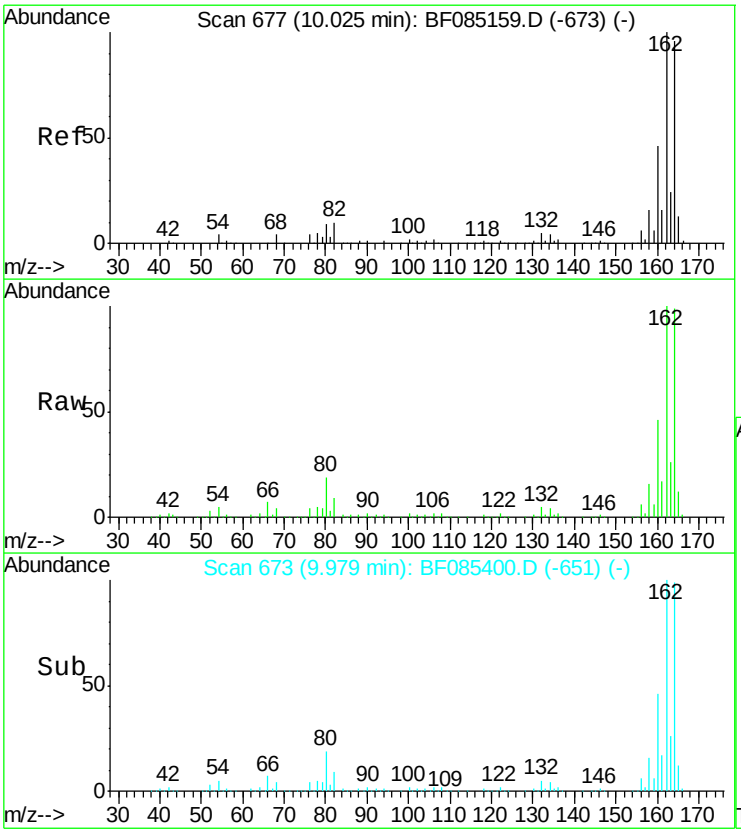
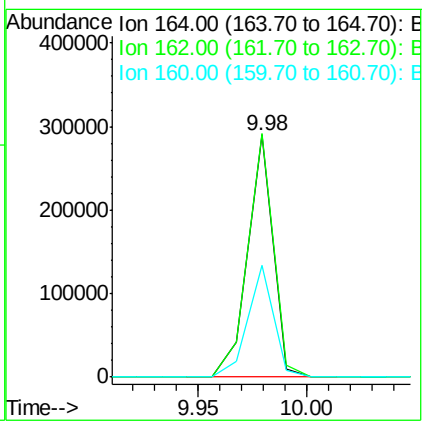
3/14/2016 10:45:59 AM

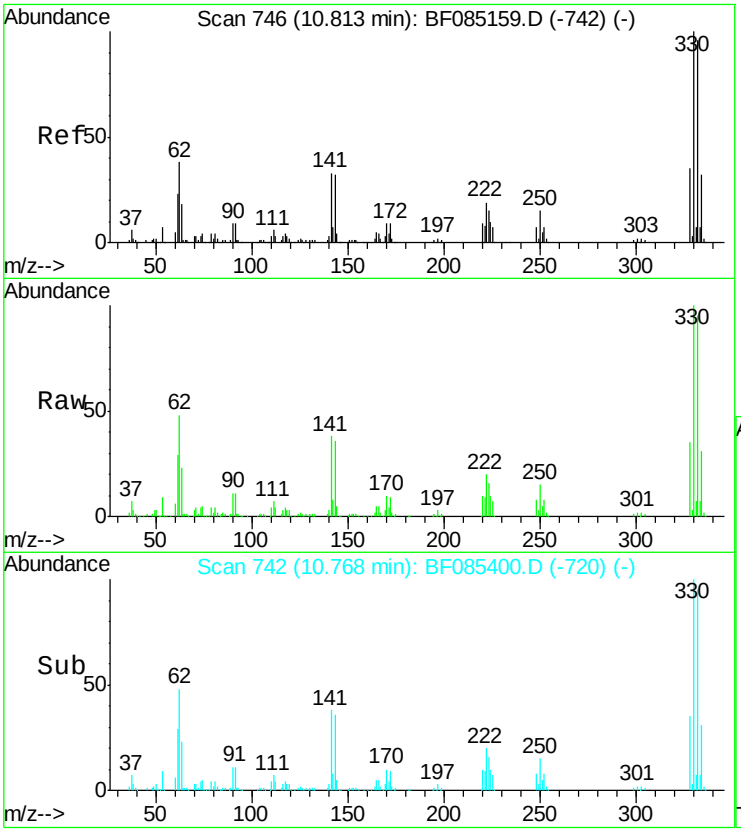



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.98 min Scan# 673
Delta R.T. -0.05 min
Lab File: BF085400.D
Acq: 12 Mar 2016 5:44

Tgt Ion:164 Resp: 234523

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 100.6 | 83.3 | 124.9 |
| 160 | 46.1 | 37.9 | 56.9 |

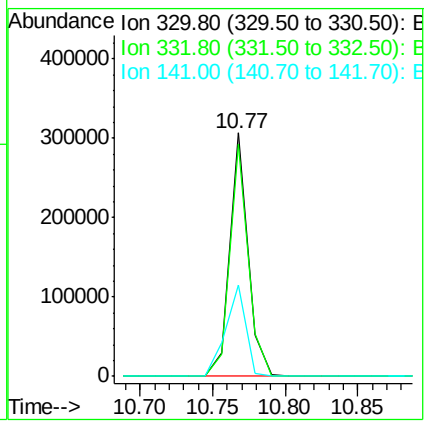





#41
2,4,6-Tribromophenol
Concen: 133.82 ng
RT: 10.77 min Scan# 742
Delta R.T. -0.05 min
Lab File: BF085400.D
Acq: 12 Mar 2016 5:44

Tgt Ion:330 Resp: 268536

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 96.1 | 77.1 | 115.7 |
| 141 | 41.9 | 35.0 | 52.6 |




**Instrument :**
BNA_F
**ClientSampleId :**
W170TH-SB-10(0.5-2.0)

**Manual Integrations APPROVED**
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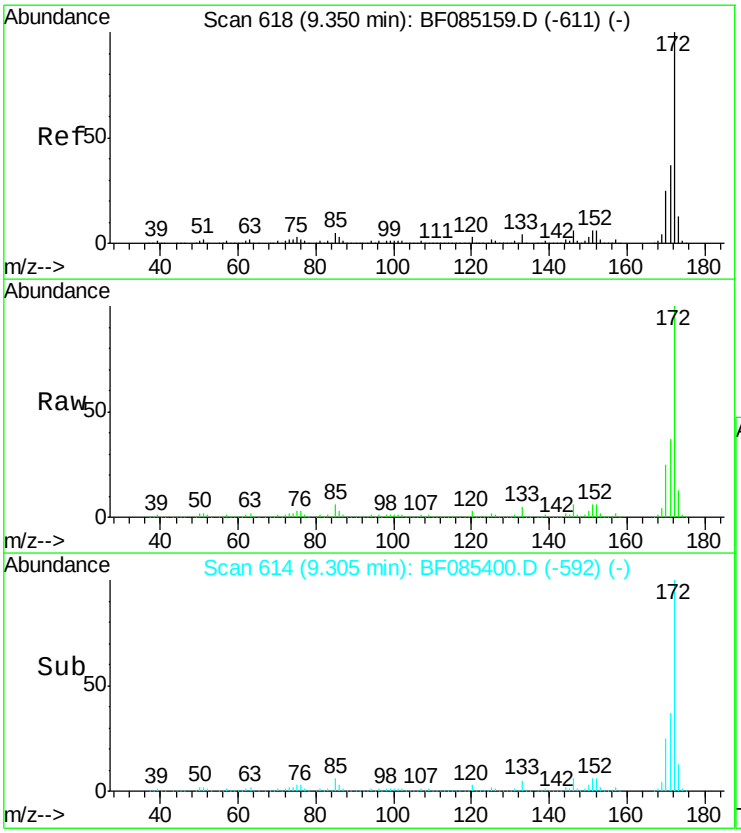
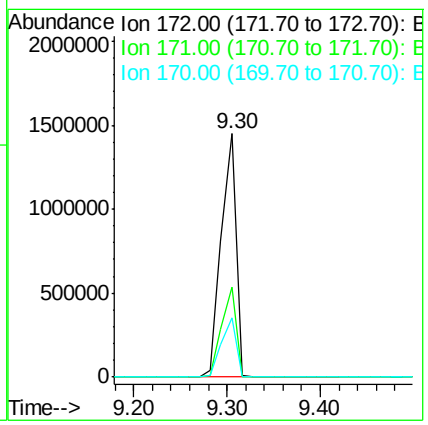
3/14/2016 10:45:59 AM

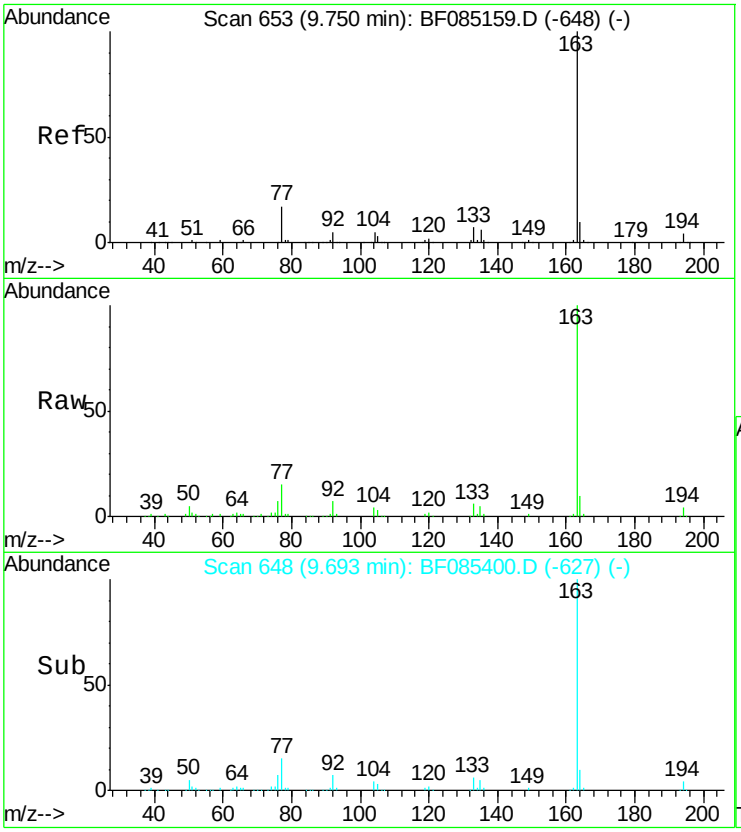



#44
2-Fluorobiphenyl
Concen: 102.90 ng
RT: 9.30 min Scan# 614
Delta R.T. -0.05 min
Lab File: BF085400.D
Acq: 12 Mar 2016 5:44

Tgt Ion:172 Resp: 1586809

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.9 | 29.3 | 43.9 |
| 170 | 24.6 | 20.0 | 30.0 |

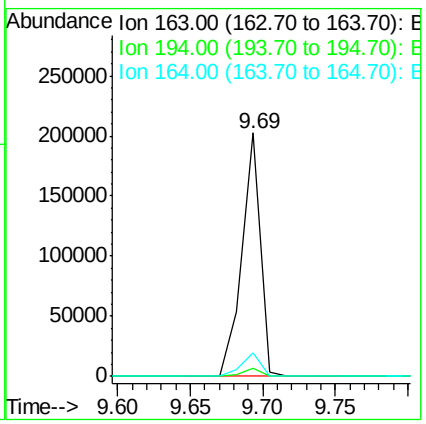





#49
Dimethylphthalate
Concen: 9.95 ng
RT: 9.69 min Scan# 648
Delta R.T. -0.06 min
Lab File: BF085400.D
Acq: 12 Mar 2016 5:44

Tgt Ion:163 Resp: 179049

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 163 | 100 | | |
| 194 | 3.5 | 3.1 | 4.7 |
| 164 | 9.7 | 8.2 | 12.4 |




**Instrument :**
BNA_F
**ClientSampleId :**
W170TH-SB-10(0.5-2.0)

**Manual Integrations APPROVED**
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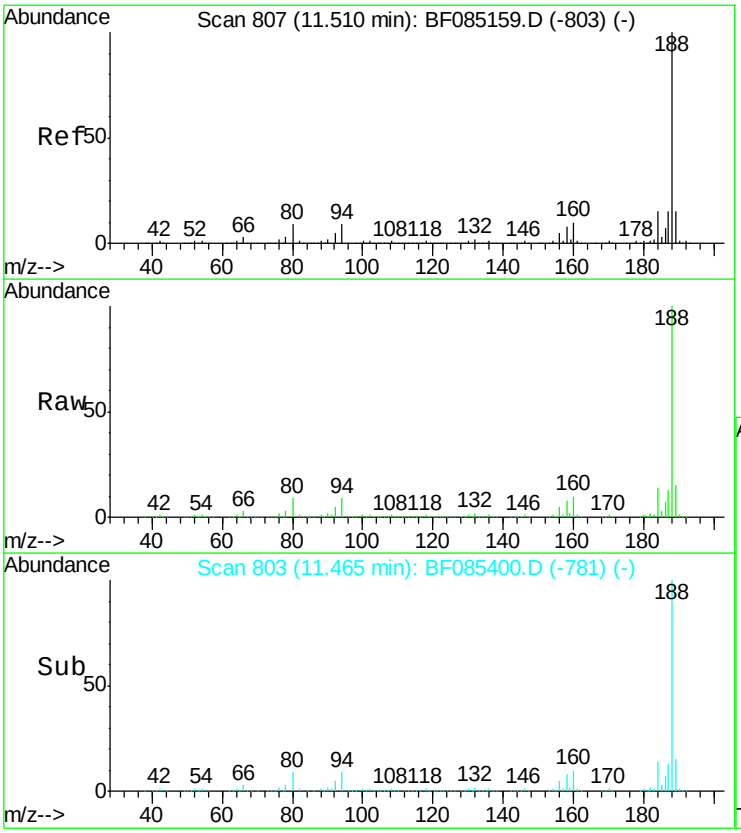
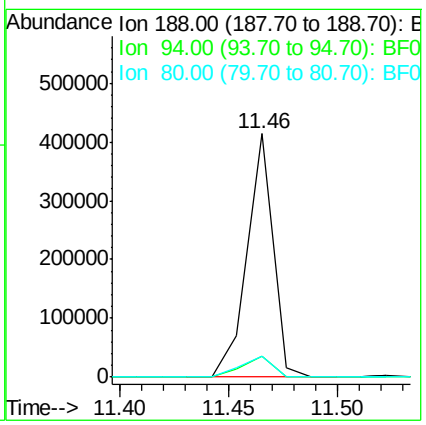
3/14/2016 10:45:59 AM

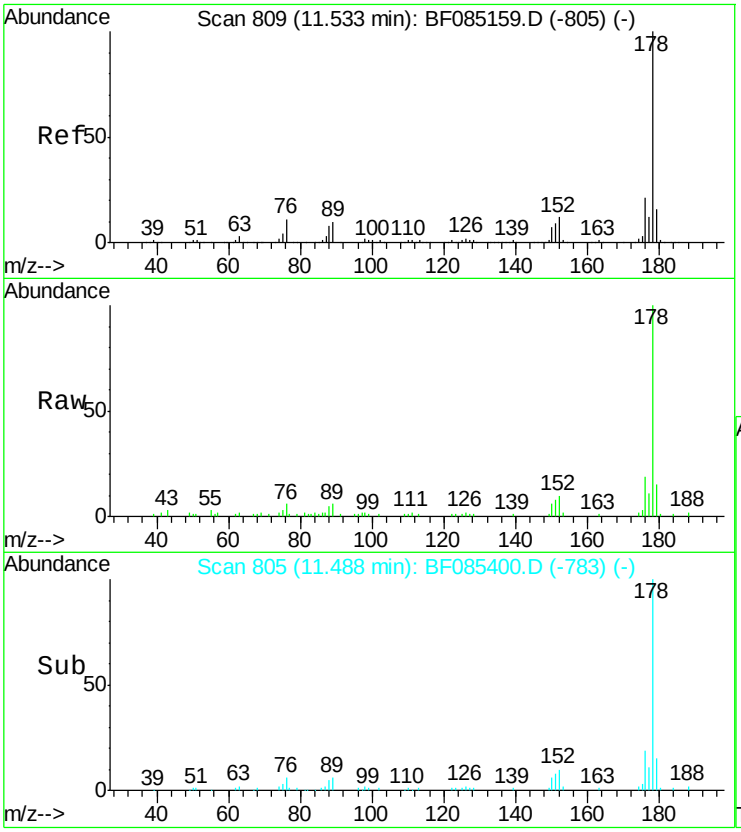



#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.46 min Scan# 803
Delta R.T. -0.05 min
Lab File: BF085400.D
Acq: 12 Mar 2016 5:44

Tgt Ion:188 Resp: 344808

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 8.7 | 7.0 | 10.6 |
| 80 | 8.7 | 7.4 | 11.0 |

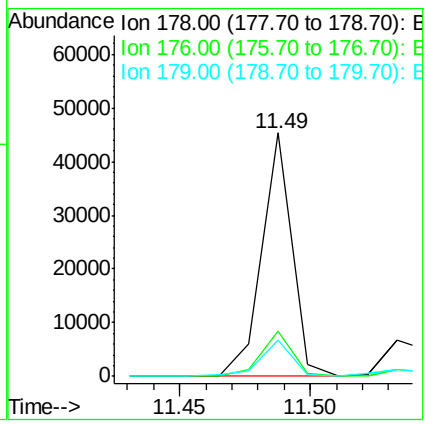





#70
Phenanthrene
Concen: 2.03 ng
RT: 11.49 min Scan# 805
Delta R.T. -0.05 min
Lab File: BF085400.D
Acq: 12 Mar 2016 5:44

Tgt Ion:178 Resp: 36699

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.7 | 16.8 | 25.2 |
| 179 | 14.8 | 13.1 | 19.7 |




**Instrument :**
BNA_F
**ClientSampleId :**
W170TH-SB-10(0.5-2.0)

**Manual Integrations APPROVED**
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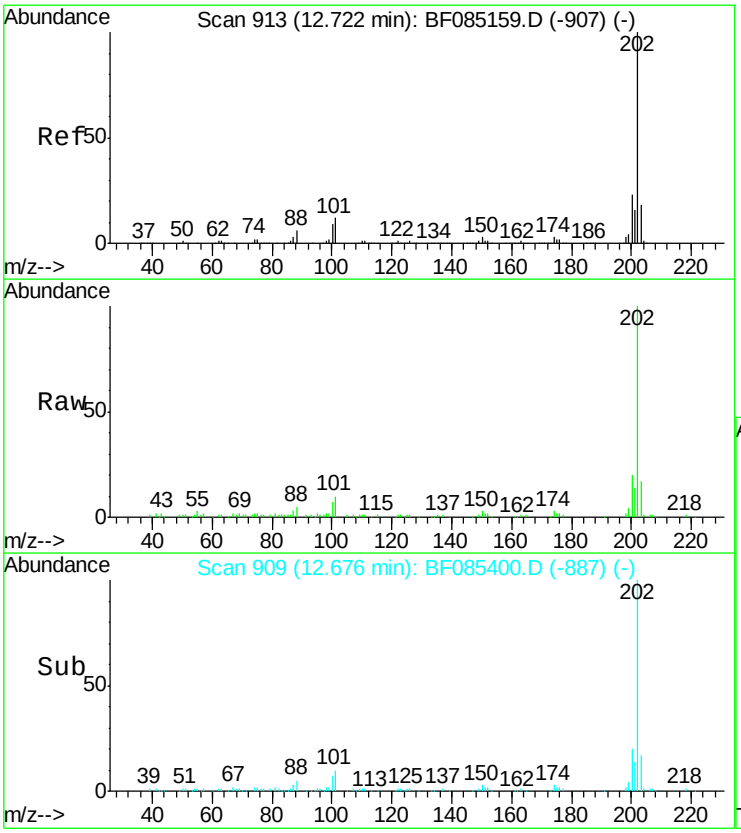
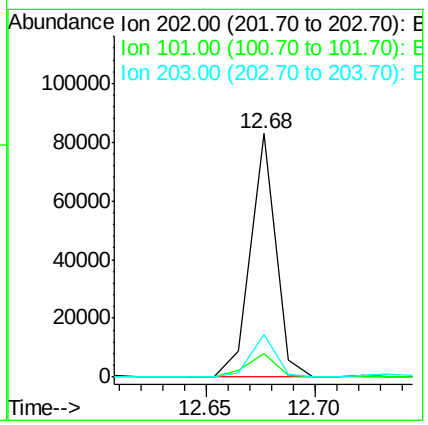
3/14/2016 10:45:59 AM

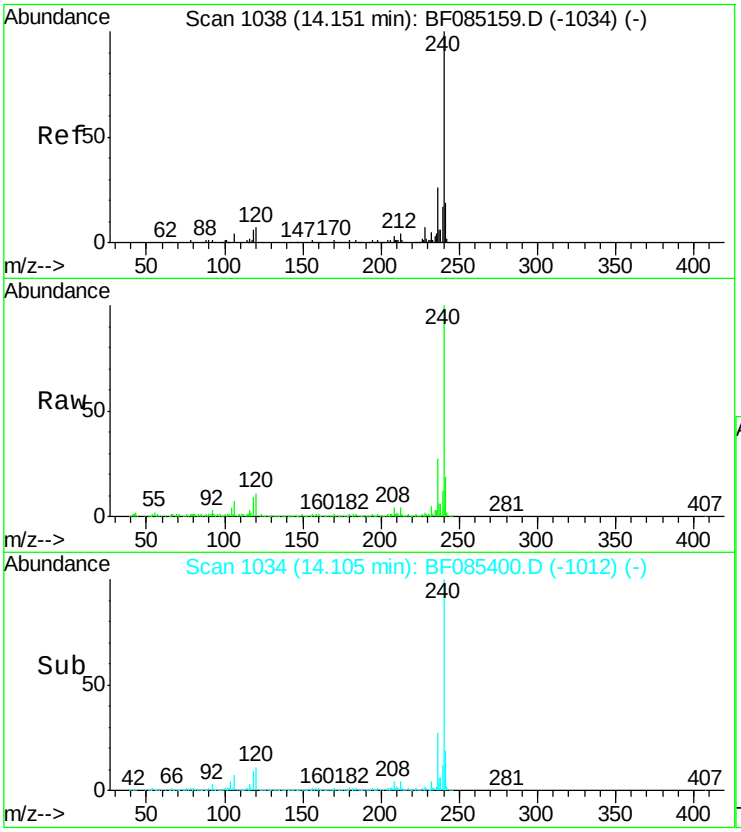



#74
Fluoranthene
Concen: 3.68 ng
RT: 12.68 min Scan# 909
Delta R.T. -0.05 min
Lab File: BF085400.D
Acq: 12 Mar 2016 5:44

Tgt Ion:202 Resp: 66726

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 9.9 | 0.0 | 31.8 |
| 203 | 17.3 | 0.0 | 38.4 |






#75
Chrysene-d12
Concen: 20.00 ng
RT: 14.11 min Scan# 1034
Delta R.T. -0.05 min
Lab File: BF085400.D
Acq: 12 Mar 2016 5:44

Tgt Ion:240 Resp: 259695

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 10.6 | 5.3 | 7.9# |
| 236 | 26.7 | 20.7 | 31.1 |

**Instrument :**
BNA_F
**ClientSampleId :**
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**Manual Integrations APPROVED**
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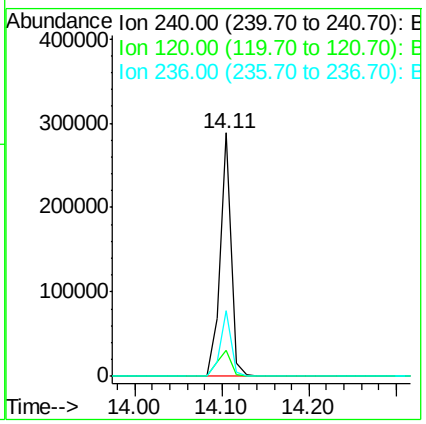
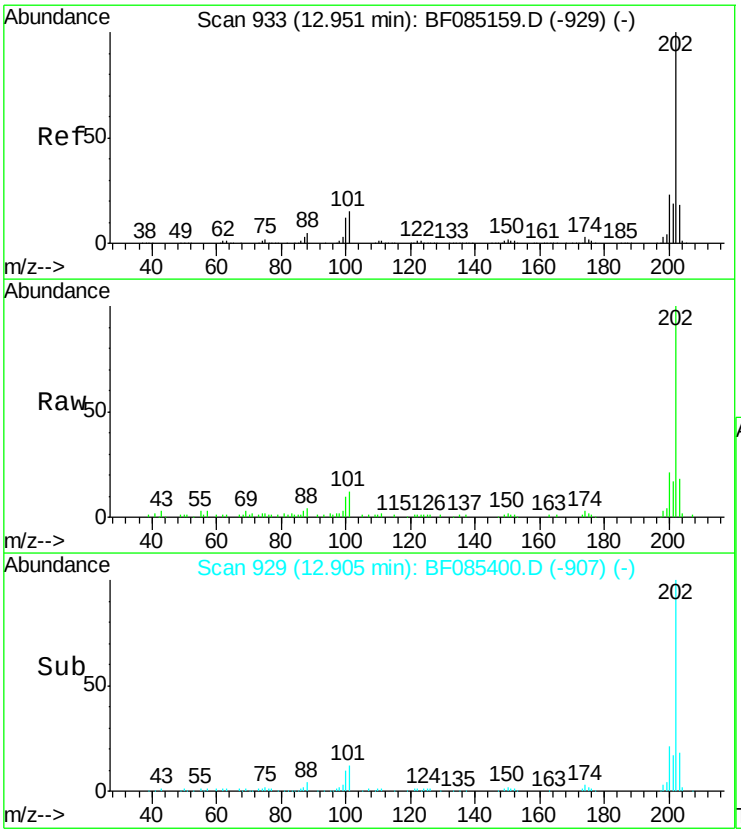
3/14/2016 10:45:59 AM

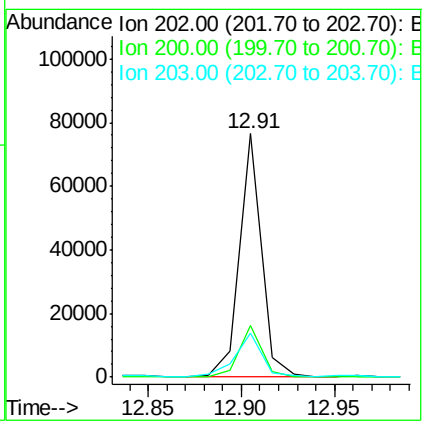


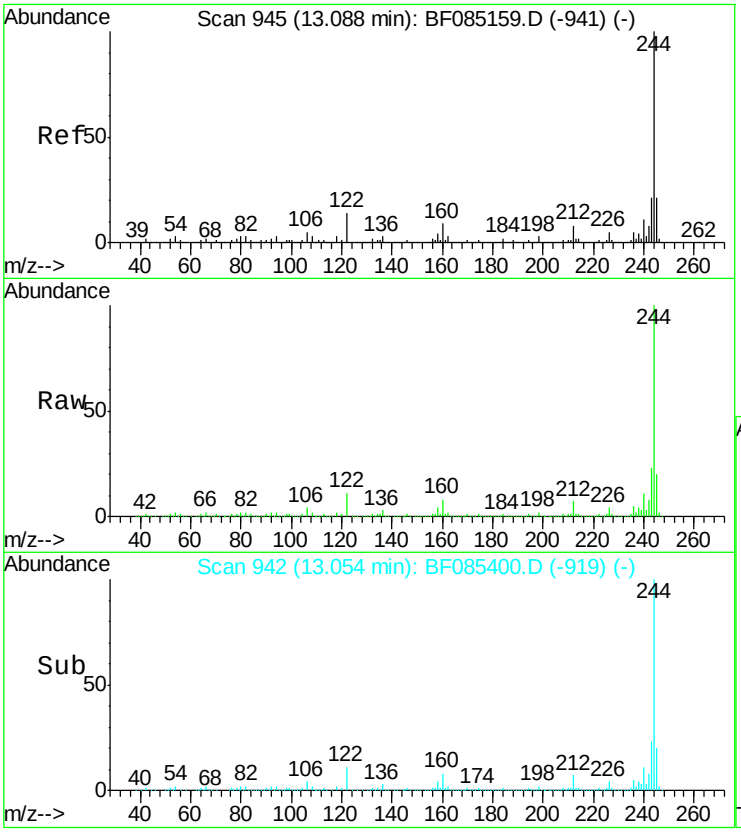




#77
Pyrene
Concen: 3.24 ng
RT: 12.91 min Scan# 929
Delta R.T. -0.05 min
Lab File: BF085400.D
Acq: 12 Mar 2016 5:44

Tgt Ion:202 Resp: 63351

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.3 | 18.2 | 27.4 |
| 203 | 18.0 | 14.7 | 22.1 |

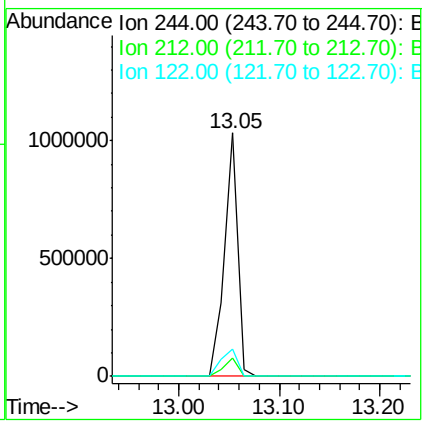





#78
Terphenyl-d14
Concen: 84.59 ng
RT: 13.05 min Scan# 942
Delta R.T. -0.03 min
Lab File: BF085400.D
Acq: 12 Mar 2016 5:44

Tgt Ion:244 Resp: 946286

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 7.3 | 6.4 | 9.6 |
| 122 | 11.3 | 11.4 | 17.2# |




**Instrument :**
BNA_F
**ClientSampleId :**
W170TH-SB-10(0.5-2.0)

**Manual Integrations APPROVED**
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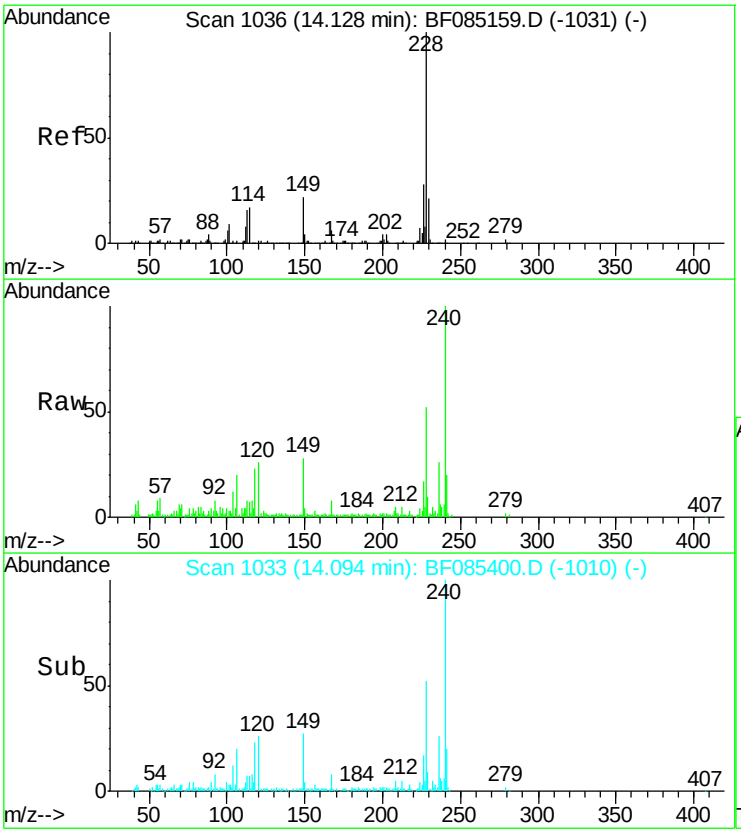
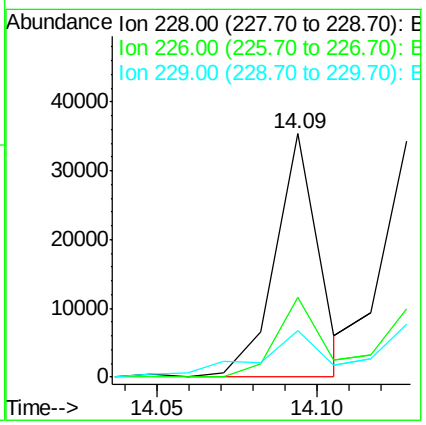
3/14/2016 10:45:59 AM

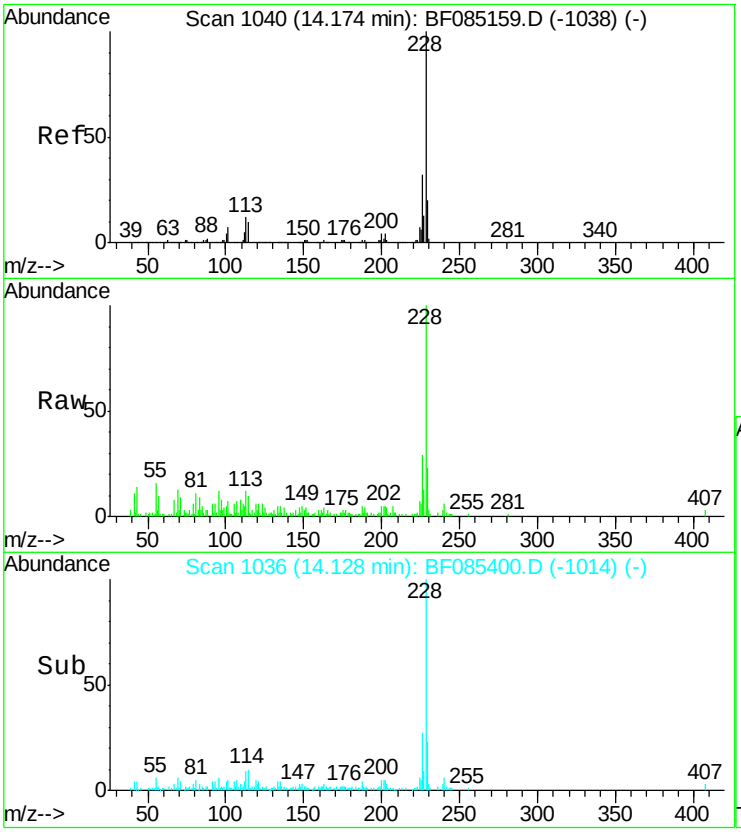



#80
Benzo(a)anthracene
Concen: 2.14 ng m
RT: 14.09 min Scan# 1033
Delta R.T. -0.03 min
Lab File: BF085400.D
Acq: 12 Mar 2016 5:44

Tgt Ion:228 Resp: 33347

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 32.6 | 22.8 | 34.2 |
| 229 | 19.3 | 16.6 | 24.8 |

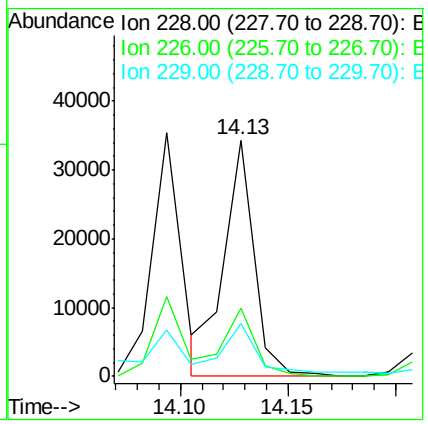





#82
Chrysene
Concen: 2.34 ng m
RT: 14.13 min Scan# 1036
Delta R.T. -0.05 min
Lab File: BF085400.D
Acq: 12 Mar 2016 5:44

Tgt Ion:228 Resp: 33588

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 28.8 | 25.2 | 37.8 |
| 229 | 22.6 | 16.0 | 24.0 |




**Instrument :**
BNA_F
**ClientSampleId :**
W170TH-SB-10(0.5-2.0)

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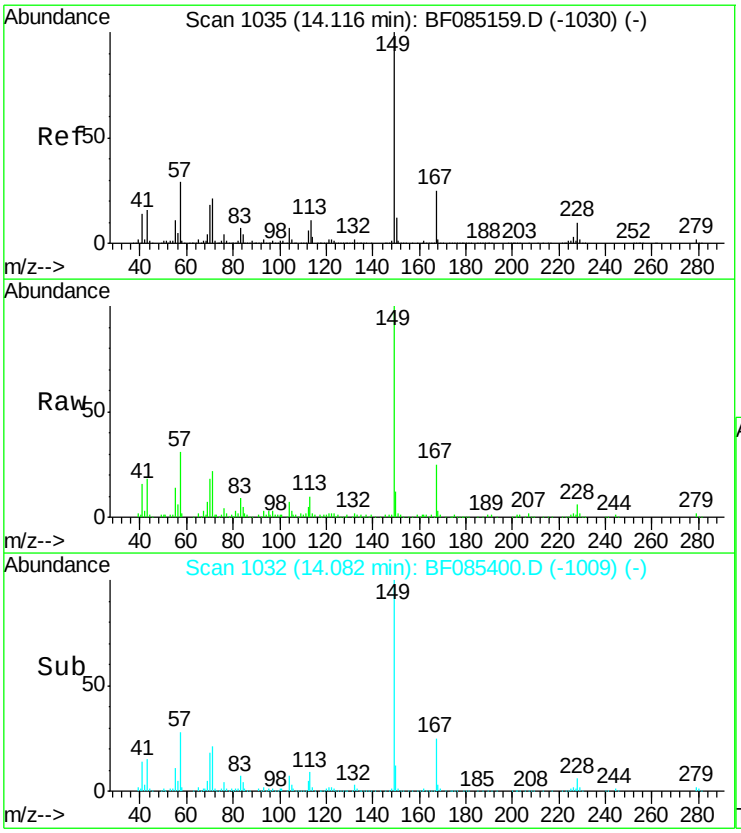
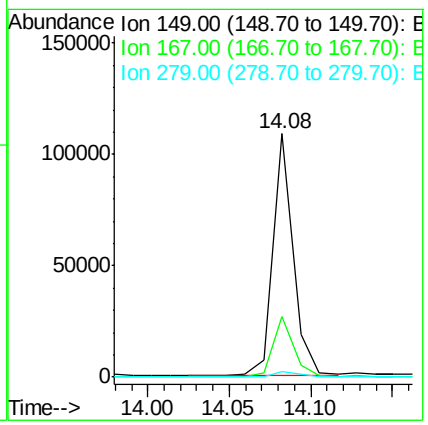
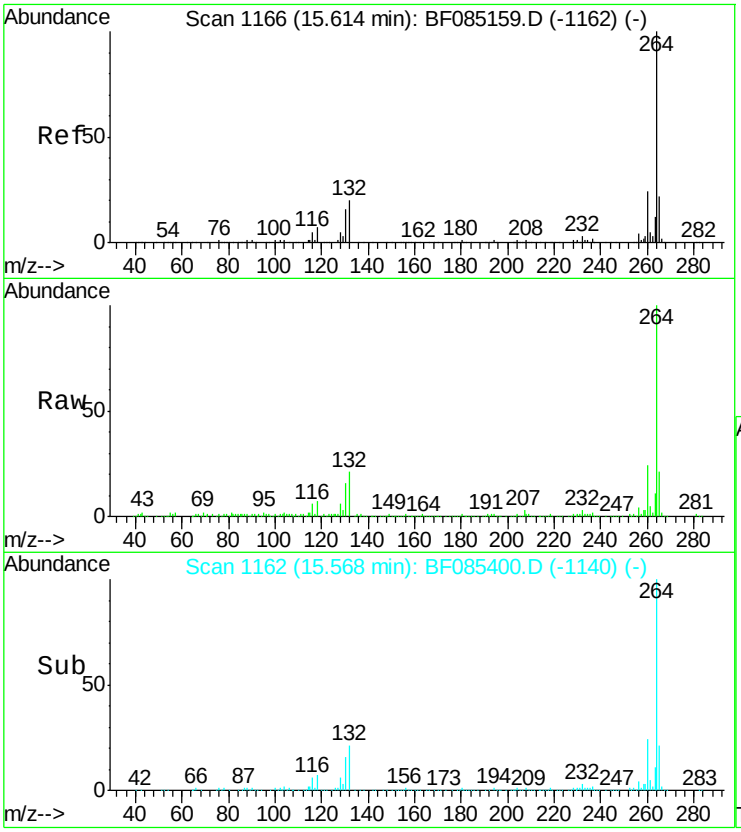



#83
Bis(2-ethylhexyl)phthalate
Concen: 7.98 ng
RT: 14.08 min Scan# 1032
Delta R.T. -0.03 min
Lab File: BF085400.D
Acq: 12 Mar 2016 5:44

Tgt Ion:149 Resp: 93088

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 24.7 | 20.3 | 30.5 |
| 279 | 2.1 | 1.9 | 2.9 |

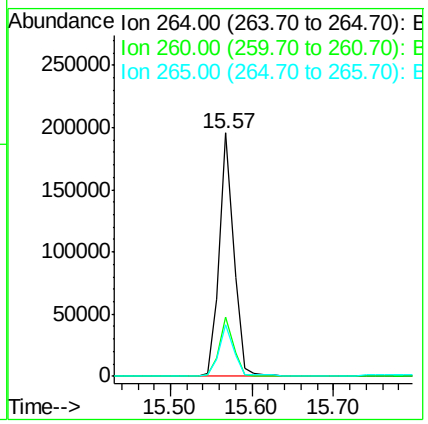





#86
Perylene-d12
Concen: 20.00 ng
RT: 15.57 min Scan# 1162
Delta R.T. -0.05 min
Lab File: BF085400.D
Acq: 12 Mar 2016 5:44

Tgt Ion:264 Resp: 242481

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 24.2 | 19.2 | 28.8 |
| 265 | 21.1 | 17.3 | 25.9 |




**Instrument :**
BNA_F
**ClientSampleId :**
W170TH-SB-10(0.5-2.0)

**Manual Integrations APPROVED**
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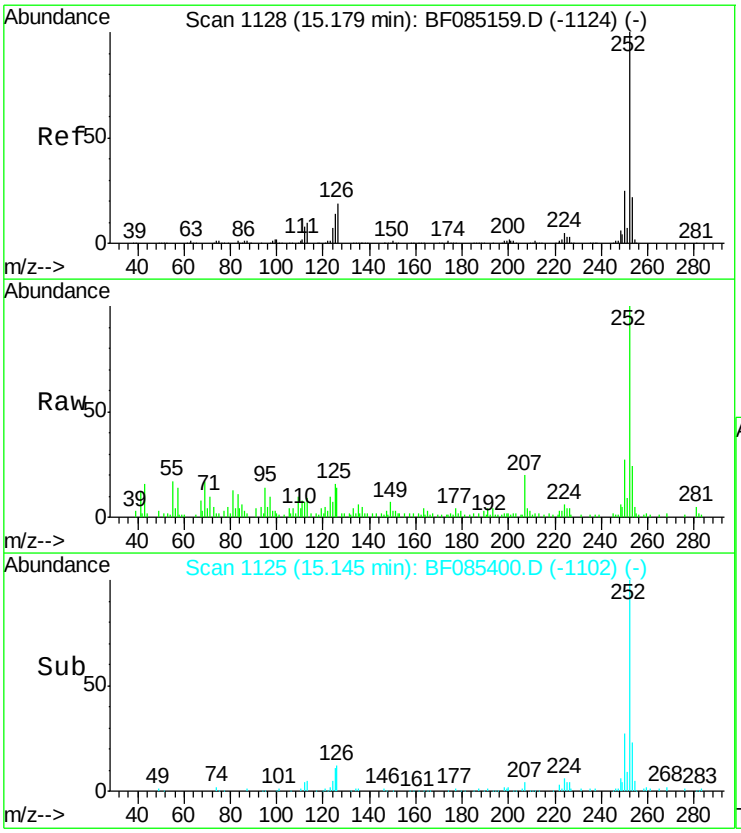
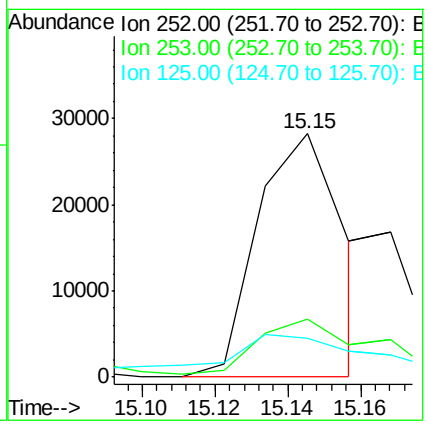
3/14/2016 10:45:59 AM

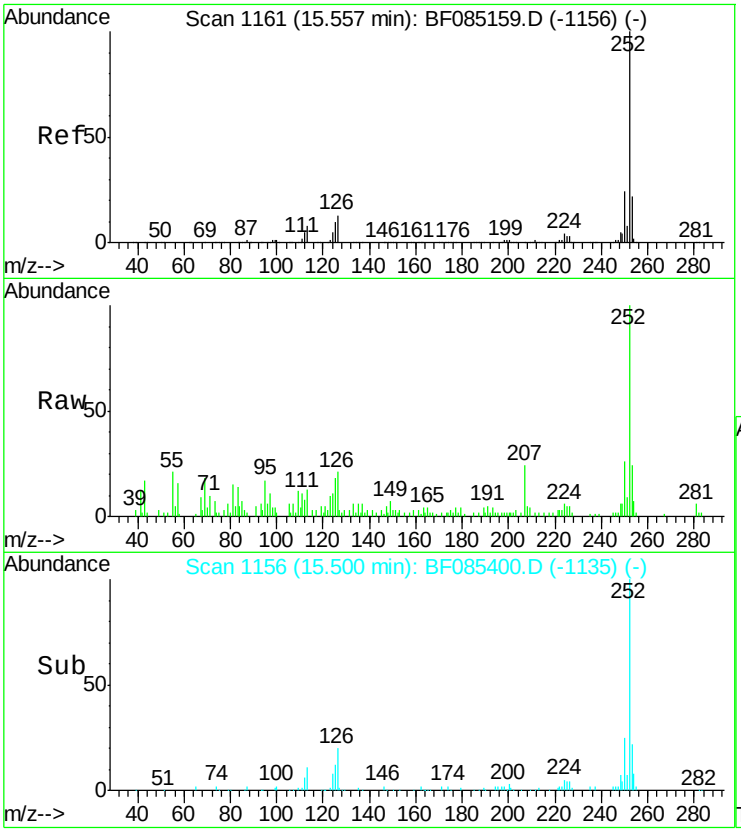



#87
Benzo(b)fluoranthene
Concen: 2.88 ng m
RT: 15.15 min Scan# 1125
Delta R.T. -0.03 min
Lab File: BF085400.D
Acq: 12 Mar 2016 5:44

Tgt Ion:252 Resp: 46554

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 24.0 | 17.8 | 26.6 |
| 125 | 16.0 | 11.3 | 16.9 |

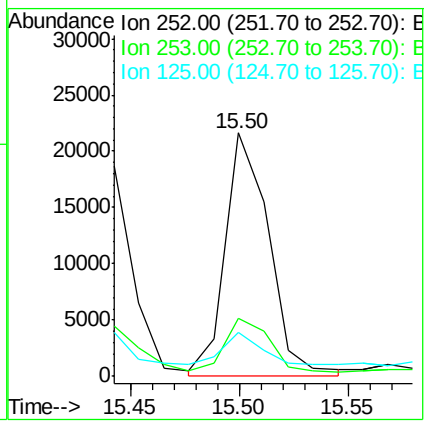





#89
Benzo(a)pyrene
Concen: 2.25 ng
RT: 15.50 min Scan# 1156
Delta R.T. -0.06 min
Lab File: BF085400.D
Acq: 12 Mar 2016 5:44

Tgt Ion:252 Resp: 30135

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 24.0 | 17.4 | 26.0 |
| 125 | 18.3 | 8.2 | 12.4# |




**Instrument :**
BNA_F
**ClientSampleId :**
W170TH-SB-10(0.5-2.0)

**Manual Integrations APPROVED**
UMANGI
3/14/2016 10:45:59 AM