Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA M\DATA\BM080915\
Data File : BM002309.D
Acq On : 09 Aug 2015 11:30
Operator : TP/UM
Sample : G3161-14
Misc :
ALS Vial : 37 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
D9C59

Manual Integrations APPROVED
MMDadoda
8/10/2015 7:29:12 PM

Quant Time: Aug 10 06:00:24 2015
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM080715MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Aug 10 05:35:03 2015
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 8.92 | 152 | 319314 | 20.00 | ng/ul | 0.00 |
| 2) Naphthalene-d8 | 11.80 | 136 | 1528745 | 20.00 | ng/ul | 0.00 |
| 6) Acenaphthene-d10 | 15.50 | 164 | 791523 | 20.00 | ng/ul | 0.00 |
| 12) Phenanthrene-d10 | 18.21 | 188 | 1561025 | 20.00 | ng/ul | 0.00 |
| 17) Chrysene-d12 | 22.30 | 240 | 1223294 | 20.00 | ng/ul | 0.00 |
| 22) Perylene-d12 | 25.00 | 264 | 1081352 | 20.00 | ng/ul | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 7) Acenaphthylene-d8 | 15.20 | 160 | 1653129 | 20.16 | ng/ul | 0.00 |
| 10) Fluorene-d10 | 16.47 | 176 | 1077757 | 18.90 | ng/ul | 0.00 |
| 14) Anthracene-d10 | 18.31 | 188 | 1515332 | 20.01 | ng/ul | 0.00 |
| 18) Pyrene-d10 | 20.52 | 212 | 1349444 | 22.75 | ng/ul | 0.00 |
| 25) Benzo(a)pyrene-d12 | 24.82 | 264 | 1010961 | 17.61 | ng/ul | 0.00 |
| **Target Compounds** | | | | | | Qvalue |
| 3) Naphthalene | 11.85 | 128 | 139070 | 1.73 | ng/ul | 99 |
| 4) 2-Methylnaphthalene | 13.39 | 142 | 118587 | 2.06 | ng/ul | 99 |
| 5) 1-Methylnaphthalene | 13.60 | 142 | 100743 | 1.78 | ng/ul | 99 |
| 13) Phenanthrene | 18.25 | 178 | 618211 | 6.88 | ng/ul | 99 |
| 15) Anthracene | 18.34 | 178 | 108864 | 1.17 | ng/ul | 99 |
| 16) Fluoranthene | 20.20 | 202 | 1097590 | 11.03 | ng/ul | 100 |
| 19) Pyrene | 20.55 | 202 | 894260 | 11.31 | ng/ul | 100 |
| 20) Benzo(a)anthracene | 22.27 | 228 | 503223 | 6.74 | ng/ul | 97 |
| 21) Chrysene | 22.33 | 228 | 556242 | 7.86 | ng/ul | 97 |
| 23) Benzo(b)fluoranthene | 24.16 | 252 | 780390 | 11.61 | ng/ul | 97 |
| 24) Benzo(k)fluoranthene | 24.21 | 252 | 233749m | 3.62 | ng/ul | |
| 26) Benzo(a)pyrene | 24.87 | 252 | 487698 | 7.58 | ng/ul | 96 |
| 27) Indeno(1,2,3-cd)pyrene | 27.84 | 276 | 371235 | 5.04 | ng/ul | 95 |
| 28) Dibenzo(a,h)anthracene | 27.84 | 278 | 99249 | 1.59 | ng/ul# | 73 |
| 29) Benzo(g,h,i)perylene | 28.73 | 276 | 343891 | 5.53 | ng/ul | 98 |

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

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA M\DATA\BM080915\
Data File : BM002309.D
Acq On : 09 Aug 2015 11:30
Operator : TP/UM
Sample : G3161-14
Misc :
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Aug 10 06:00:24 2015
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM080715MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Aug 10 05:35:03 2015
Response via : Initial Calibration

**Instrument :**
BNA_M
**ClientSampleId :**
D9C59

**Manual Integrations APPROVED**
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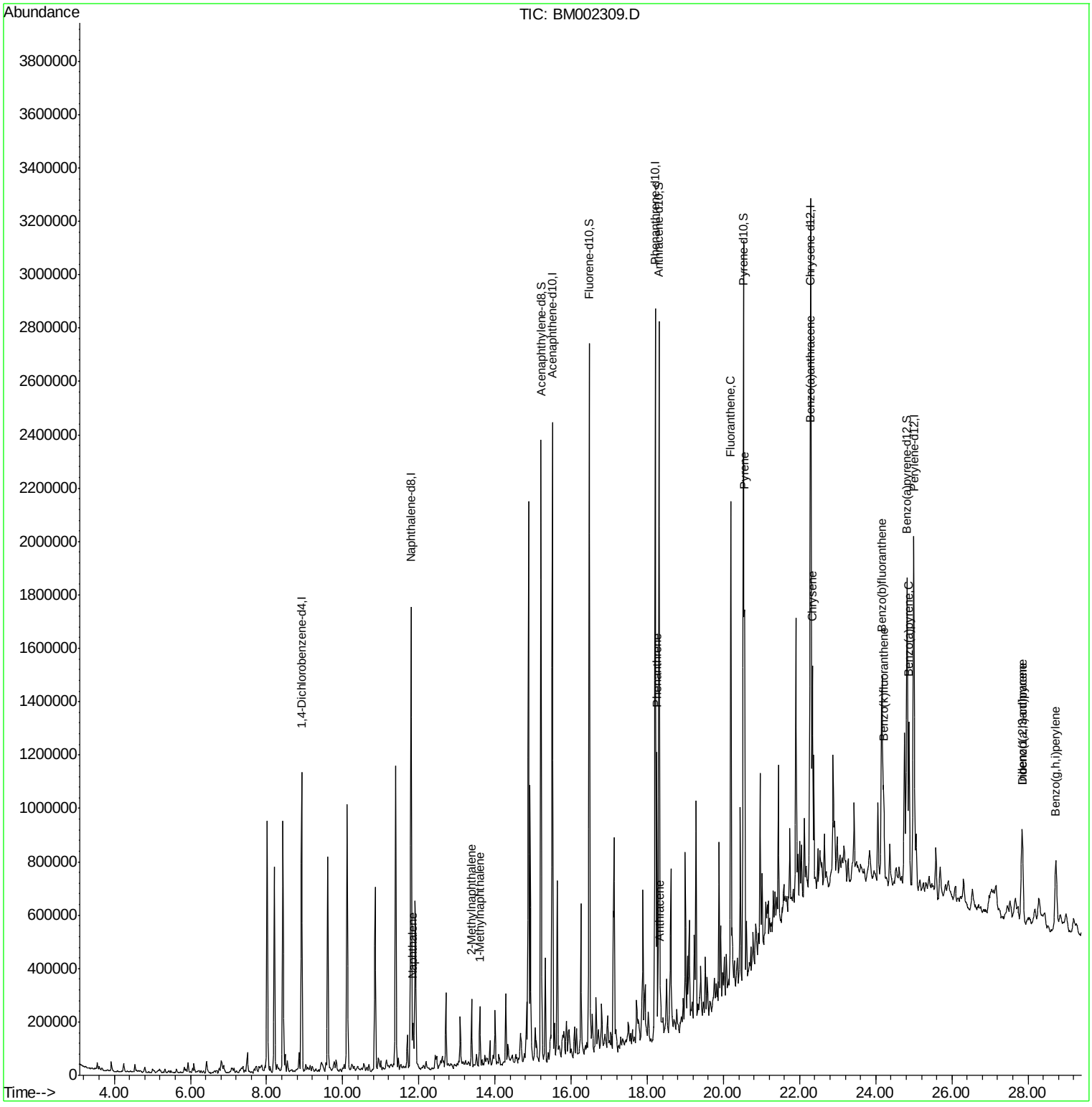
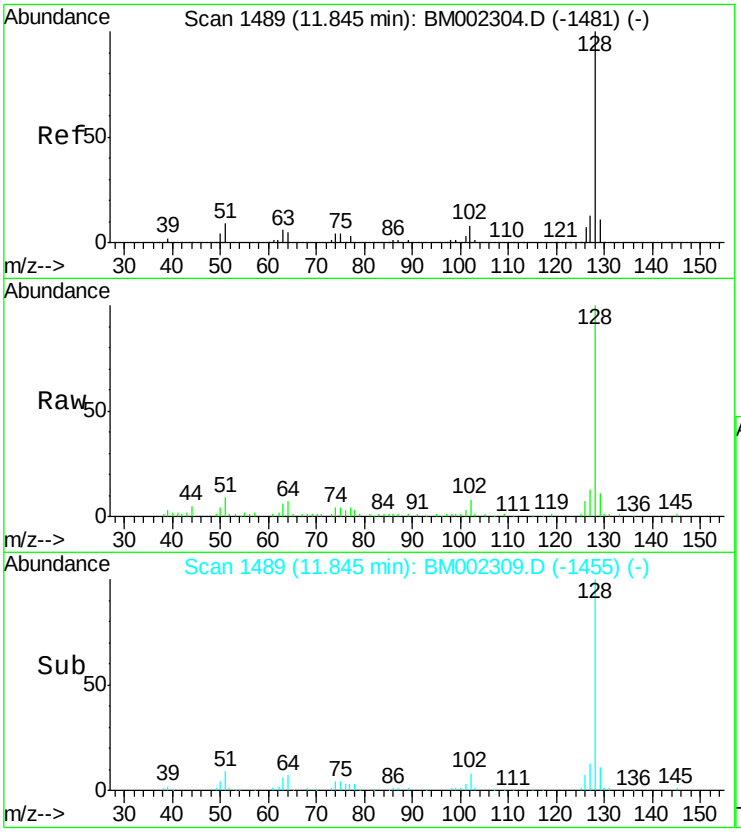
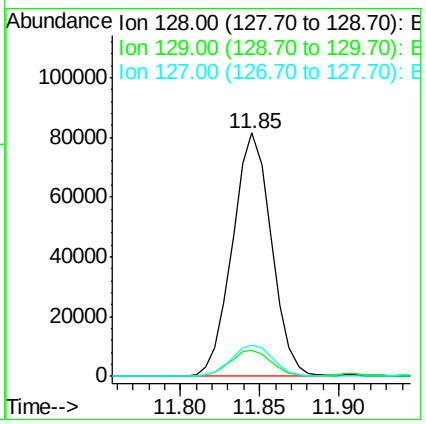





#3
Naphthalene
Concen: 1.73 ng/ul
RT: 11.85 min Scan# 1489
Delta R.T. 0.00 min
Lab File: BM002309.D
Acq: 09 Aug 2015 11:30

Tgt Ion:128 Resp: 139070

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 10.9 | 8.6 | 12.8 |
| 127 | 12.8 | 10.4 | 15.6 |




**Instrument :**
BNA_M
**ClientSampleId :**
D9C59

**Manual Integrations APPROVED**
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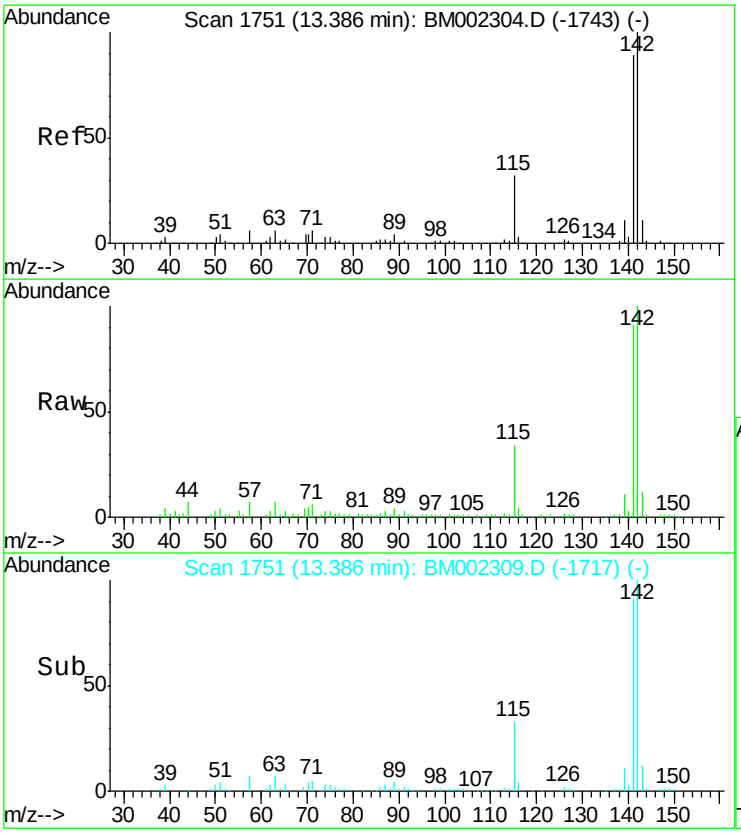
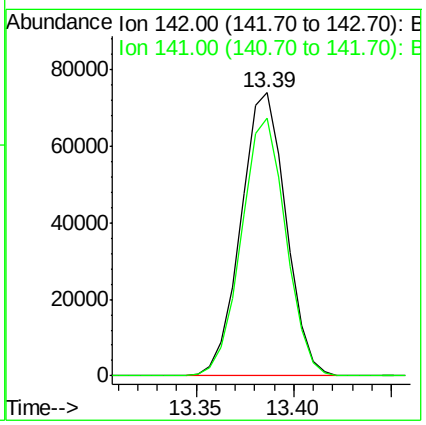
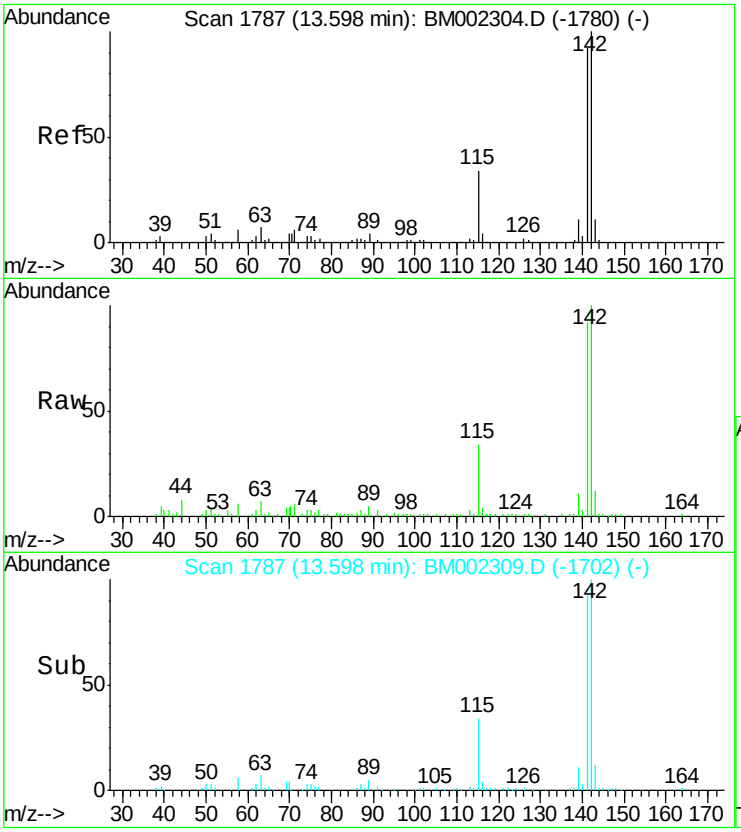



#4
2-Methylnaphthalene
Concen: 2.06 ng/ul
RT: 13.39 min Scan# 1751
Delta R.T. 0.00 min
Lab File: BM002309.D
Acq: 09 Aug 2015 11:30

Tgt Ion:142 Resp: 118587

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 91.3 | 72.5 | 108.7 |

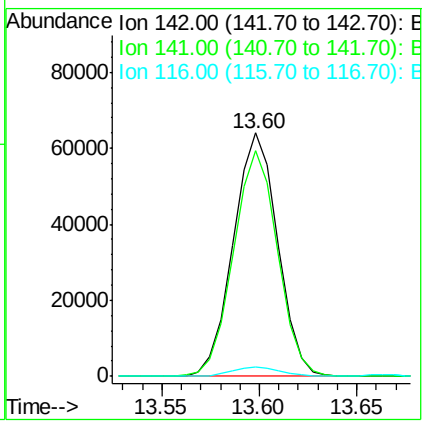





#5
1-Methylnaphthalene
Concen: 1.78 ng/ul
RT: 13.60 min Scan# 1787
Delta R.T. 0.00 min
Lab File: BM002309.D
Acq: 09 Aug 2015 11:30

Tgt Ion:142 Resp: 100743

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 92.4 | 74.5 | 111.7 |
| 116 | 4.0 | 3.0 | 4.4 |




**Instrument :**
BNA_M
**ClientSampleId :**
D9C59

**Manual Integrations APPROVED**
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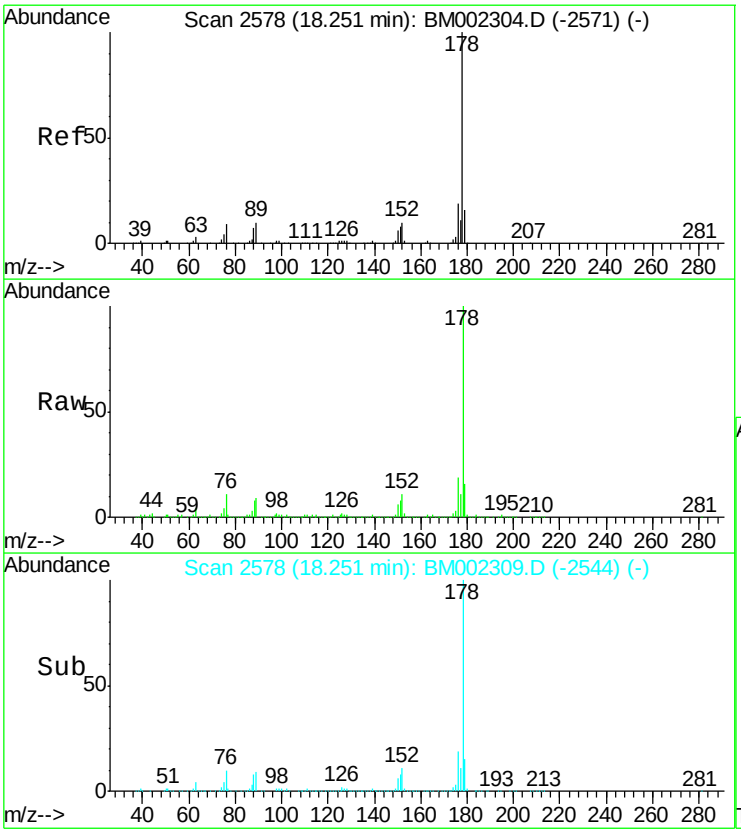
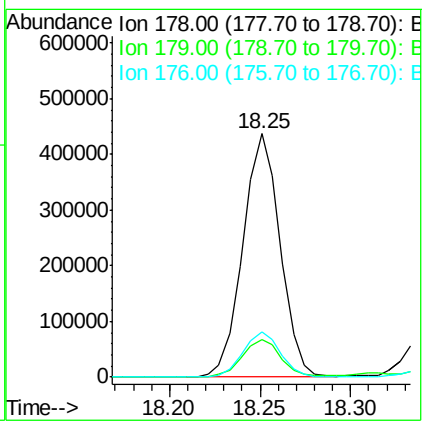
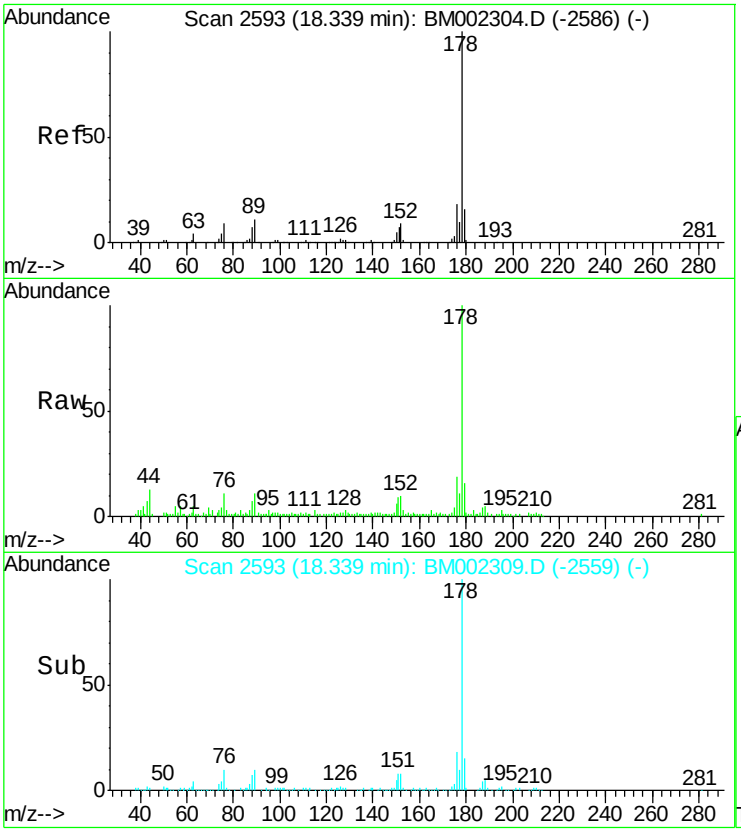



#13
Phenanthrene
Concen: 6.88 ng/ul
RT: 18.25 min Scan# 2578
Delta R.T. 0.00 min
Lab File: BM002309.D
Acq: 09 Aug 2015 11:30

Tgt Ion:178 Resp: 618211

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 179 | 15.6 | 12.3 | 18.5 |
| 176 | 18.8 | 15.3 | 22.9 |

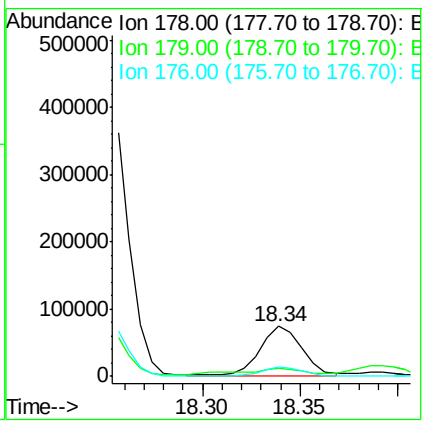





#15
Anthracene
Concen: 1.17 ng/ul
RT: 18.34 min Scan# 2593
Delta R.T. 0.00 min
Lab File: BM002309.D
Acq: 09 Aug 2015 11:30

Tgt Ion:178 Resp: 108864

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 179 | 16.1 | 12.3 | 18.5 |
| 176 | 18.6 | 14.5 | 21.7 |




**Instrument :**
BNA_M
**ClientSampleId :**
D9C59

**Manual Integrations APPROVED**
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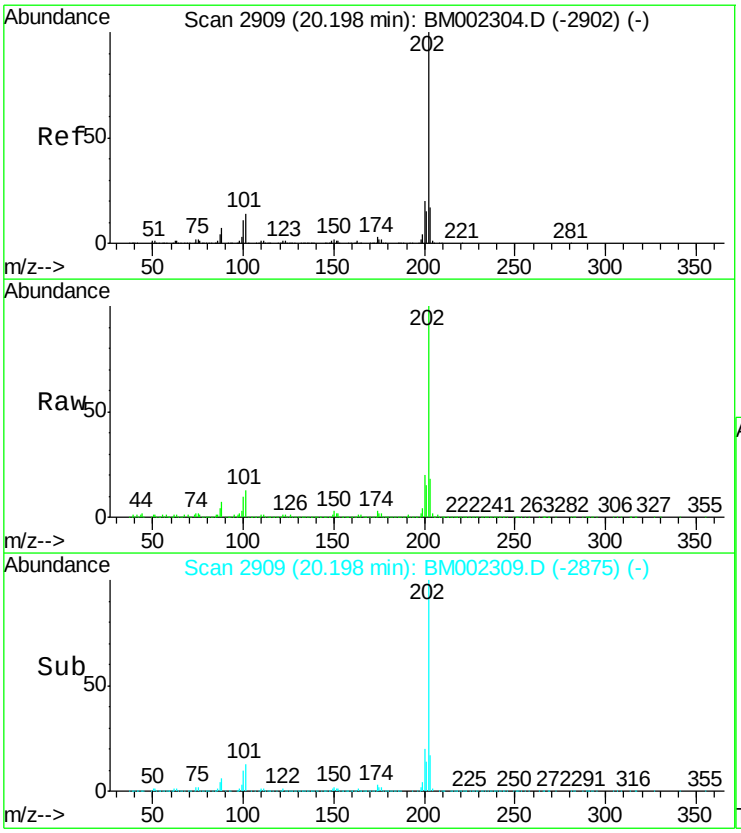
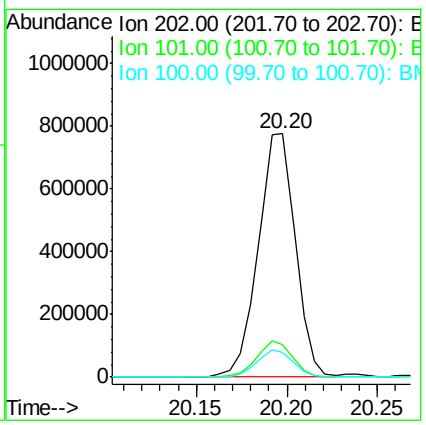
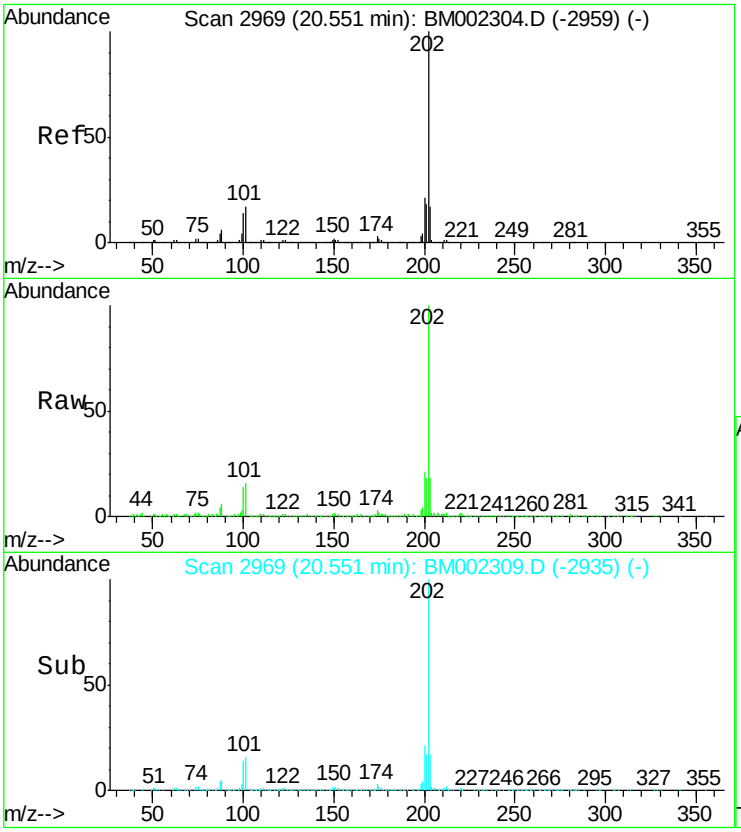



#16
Fluoranthene
Concen: 11.03 ng/ul
RT: 20.20 min Scan# 2909
Delta R.T. 0.00 min
Lab File: BM002309.D
Acq: 09 Aug 2015 11:30

Tgt Ion:202 Resp: 1097590

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 13.5 | 10.6 | 15.8 |
| 100 | 10.2 | 8.2 | 12.4 |

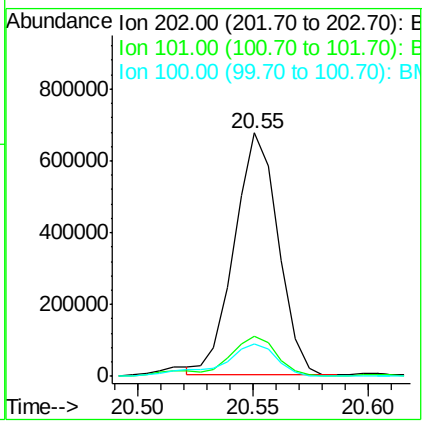





#19
Pyrene
Concen: 11.31 ng/ul
RT: 20.55 min Scan# 2969
Delta R.T. 0.00 min
Lab File: BM002309.D
Acq: 09 Aug 2015 11:30

Tgt Ion:202 Resp: 894260

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 16.3 | 13.0 | 19.6 |
| 100 | 13.6 | 11.0 | 16.4 |




**Instrument :**
BNA_M
**ClientSampleId :**
D9C59

**Manual Integrations APPROVED**
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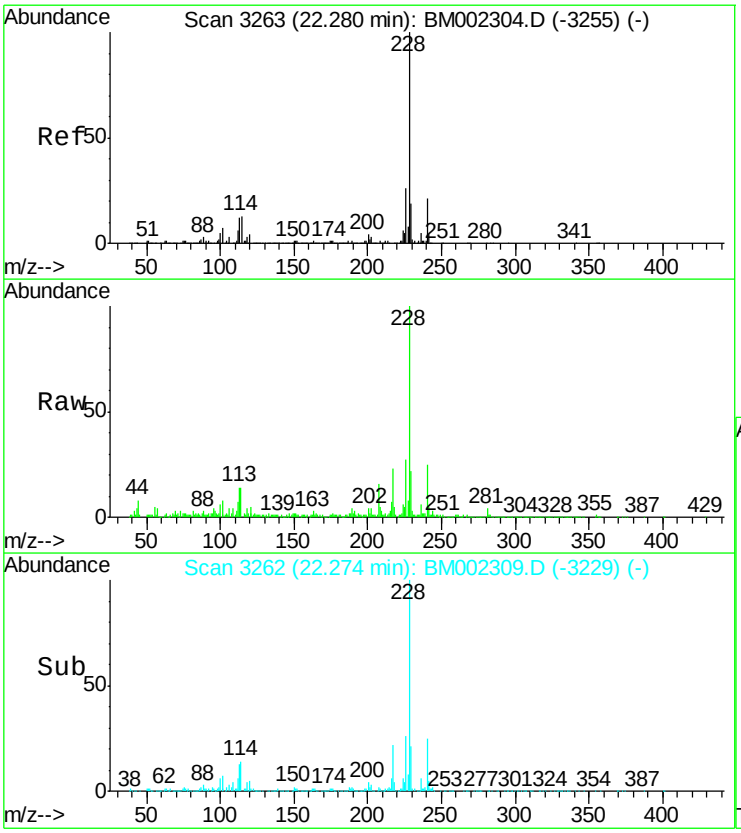
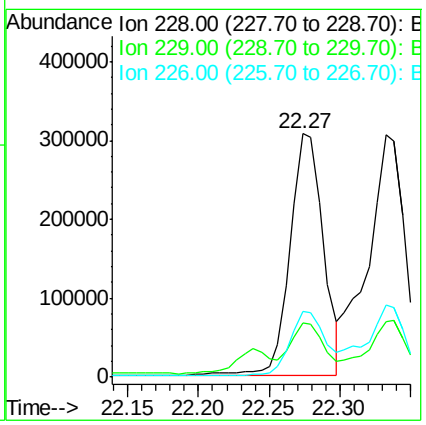
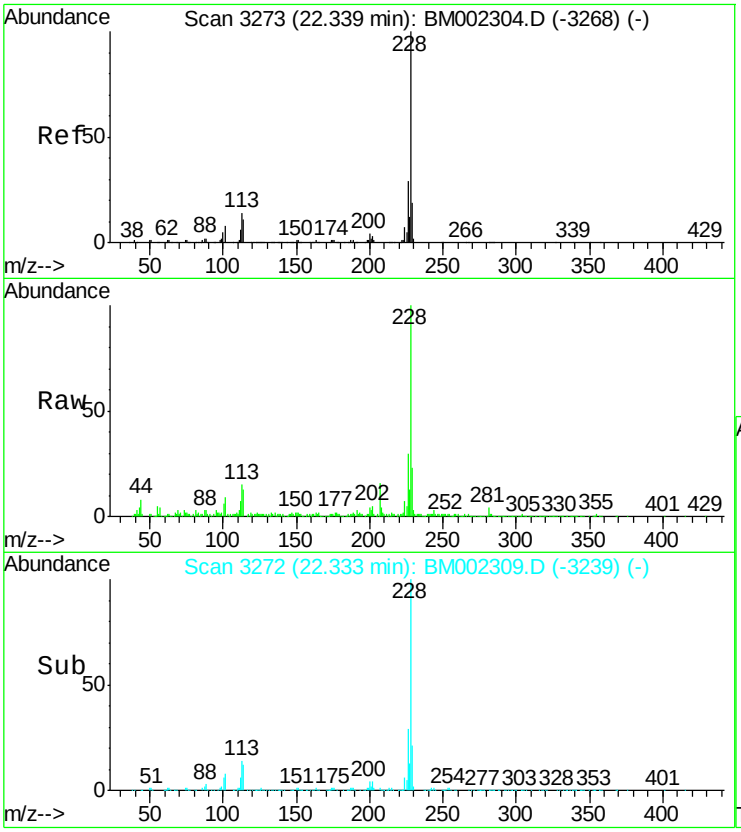



#20
Benzo(a)anthracene
Concen: 6.74 ng/ul
RT: 22.27 min Scan# 3262
Delta R.T. -0.01 min
Lab File: BM002309.D
Acq: 09 Aug 2015 11:30

Tgt Ion:228 Resp: 503223

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 229 | 22.1 | 15.7 | 23.5 |
| 226 | 27.0 | 21.4 | 32.0 |

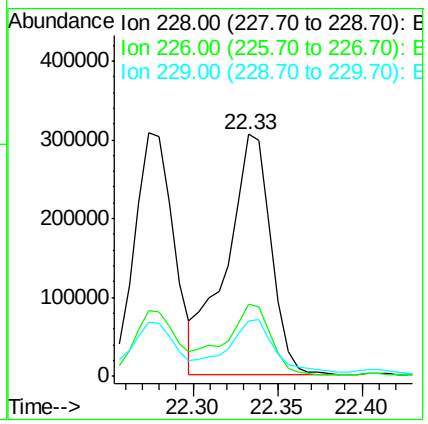





#21
Chrysene
Concen: 7.86 ng/ul
RT: 22.33 min Scan# 3272
Delta R.T. -0.01 min
Lab File: BM002309.D
Acq: 09 Aug 2015 11:30

Tgt Ion:228 Resp: 556242

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 29.6 | 23.4 | 35.0 |
| 229 | 22.9 | 15.5 | 23.3 |




**Instrument :**
BNA_M
**ClientSampleId :**
D9C59

**Manual Integrations APPROVED**
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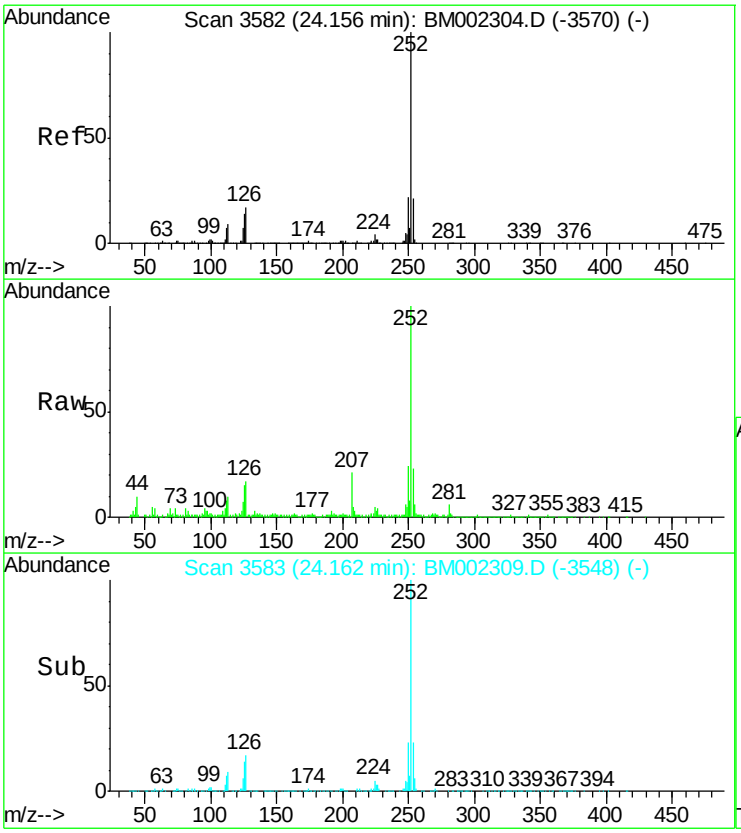
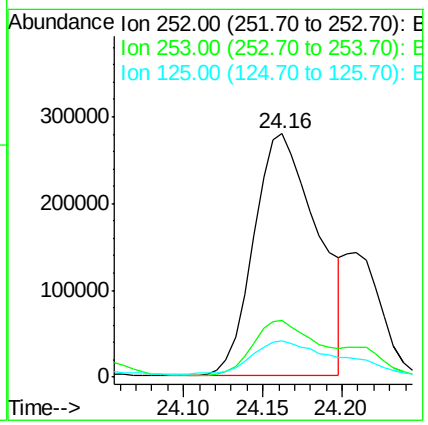
8/10/2015 7:29:12 PM

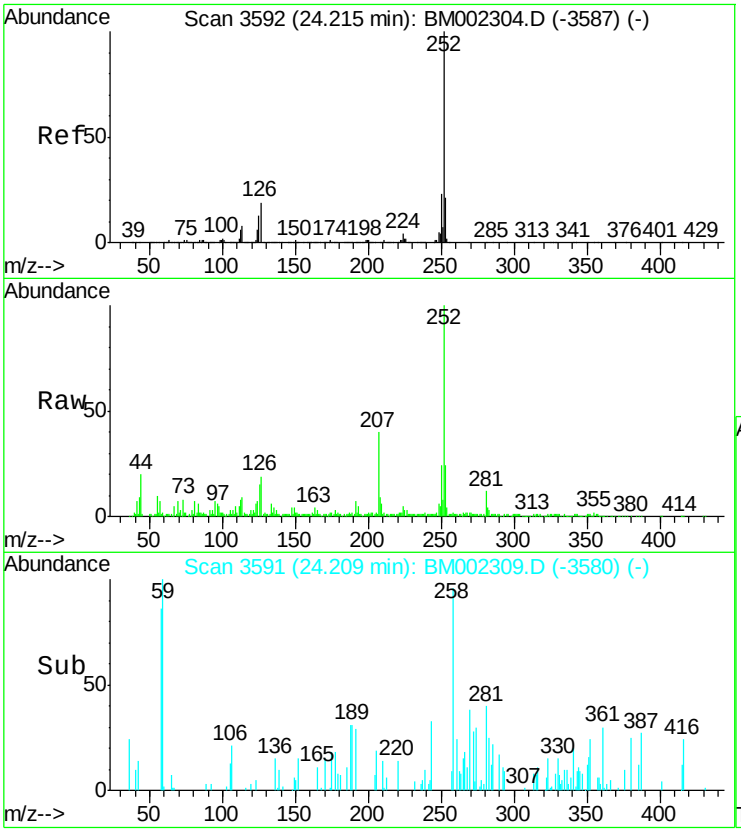



#23
Benzo(b)fluoranthene
Concen: 11.61 ng/ul
RT: 24.16 min Scan# 3583
Delta R.T. 0.01 min
Lab File: BM002309.D
Acq: 09 Aug 2015 11:30

Tgt Ion:252 Resp: 780390

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 23.5 | 17.9 | 26.9 |
| 125 | 15.0 | 10.3 | 15.5 |

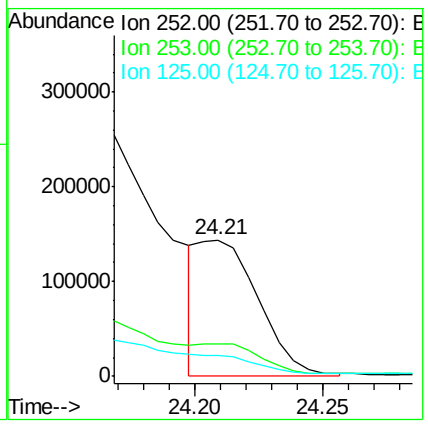





#24
Benzo(k)fluoranthene
Concen: 3.62 ng/ul m
RT: 24.21 min Scan# 3591
Delta R.T. -0.01 min
Lab File: BM002309.D
Acq: 09 Aug 2015 11:30

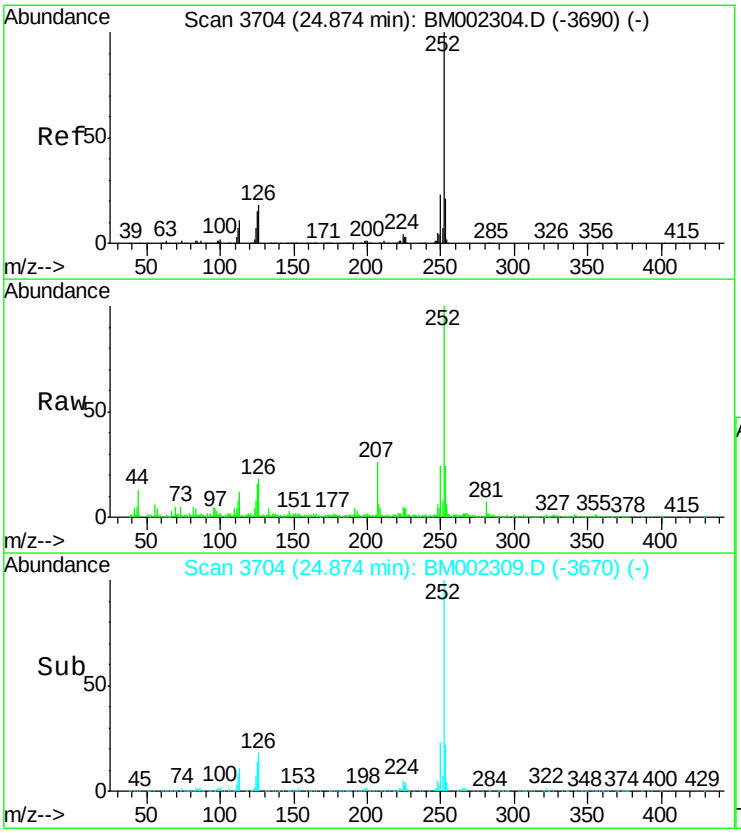
Tgt Ion:252 Resp: 233749

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 23.9 | 17.3 | 25.9 |
| 125 | 15.1 | 10.2 | 15.4 |




**Instrument :**
BNA_M
**ClientSampleId :**
D9C59

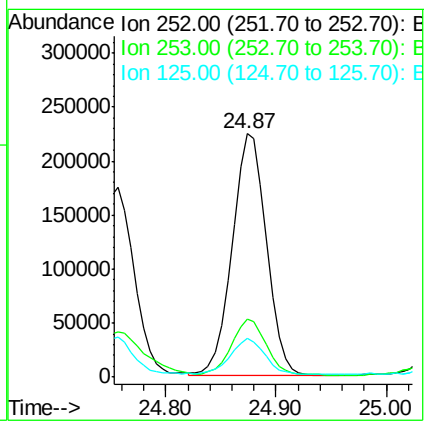
**Manual Integrations APPROVED**
MMDadoda
8/10/2015 7:29:12 PM

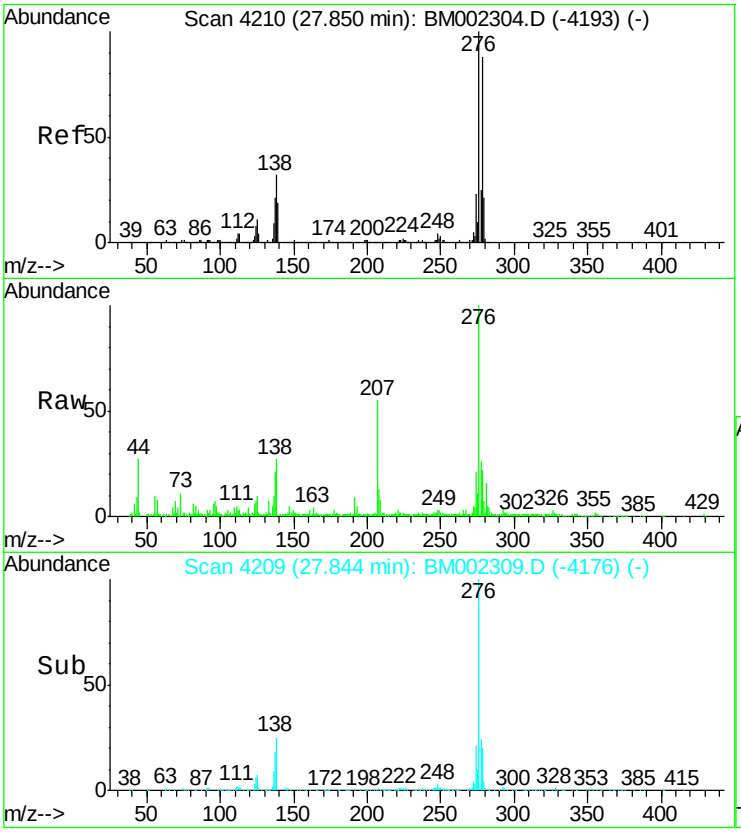



#26
Benzo(a)pyrene
Concen: 7.58 ng/ul
RT: 24.87 min Scan# 3704
Delta R.T. 0.00 min
Lab File: BM002309.D
Acq: 09 Aug 2015 11:30

Tgt Ion:252 Resp: 487698

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 23.6 | 17.3 | 25.9 |
| 125 | 15.7 | 11.0 | 16.6 |

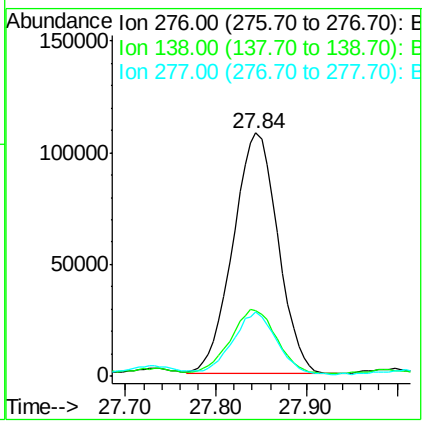





#27
Indeno(1,2,3-cd)pyrene
Concen: 5.04 ng/ul
RT: 27.84 min Scan# 4209
Delta R.T. -0.01 min
Lab File: BM002309.D
Acq: 09 Aug 2015 11:30

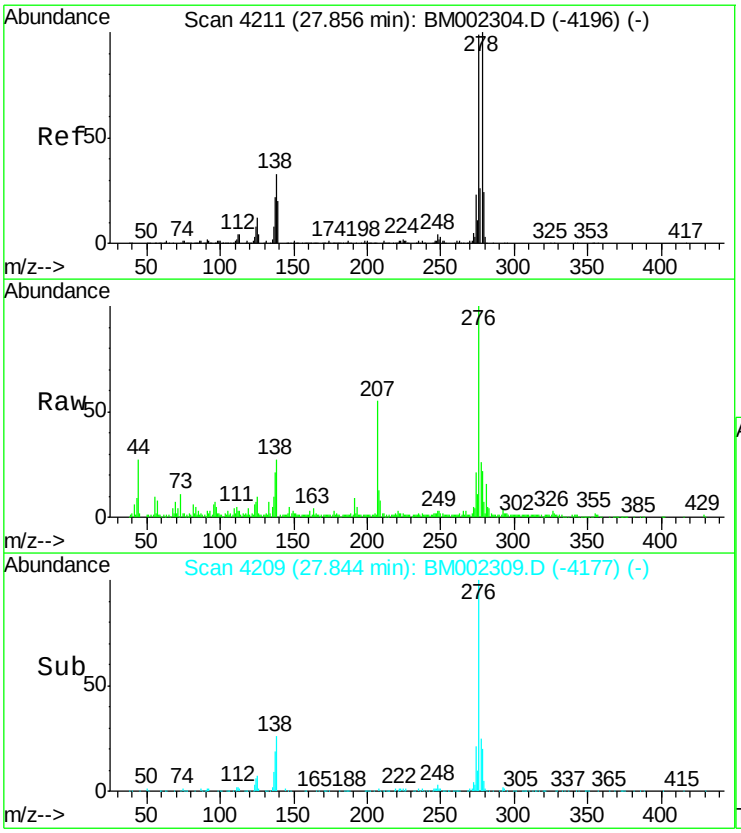
Tgt Ion:276 Resp: 371235

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 27.0 | 25.6 | 38.4 |
| 277 | 26.2 | 21.0 | 31.4 |




**Instrument :**
BNA_M
**ClientSampleId :**
D9C59

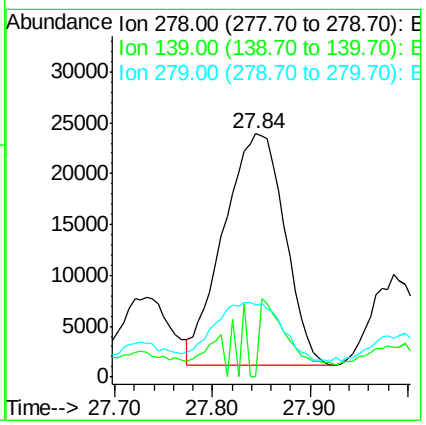
**Manual Integrations APPROVED**
MMDadoda
8/10/2015 7:29:12 PM

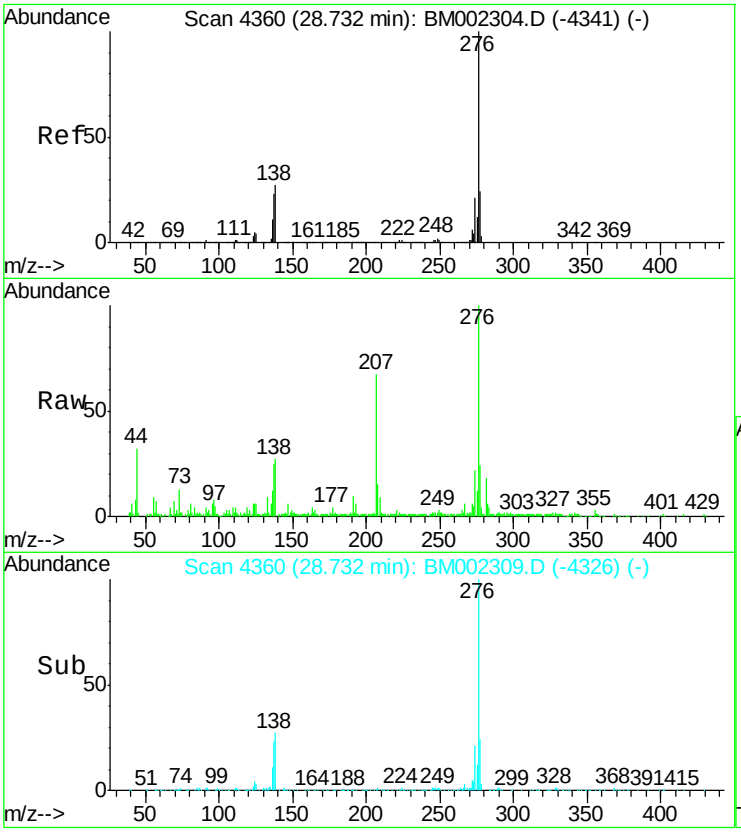



#28
Dibenzo(a,h)anthracene
Concen: 1.59 ng/ul
RT: 27.84 min Scan# 4209
Delta R.T. -0.01 min
Lab File: BM002309.D
Acq: 09 Aug 2015 11:30

Tgt Ion:278 Resp: 99249

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 0.0 | 16.4 | 24.6# |
| 279 | 29.7 | 18.8 | 28.2# |

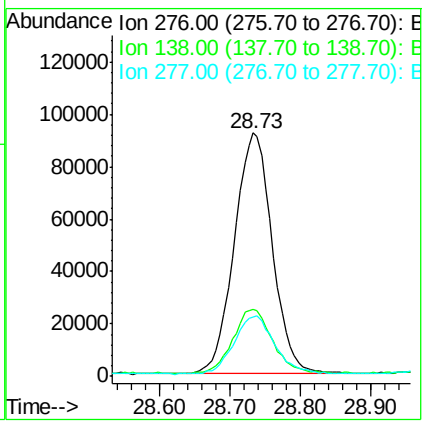





#29
Benzo(g,h,i)perylene
Concen: 5.53 ng/ul
RT: 28.73 min Scan# 4360
Delta R.T. 0.00 min
Lab File: BM002309.D
Acq: 09 Aug 2015 11:30

Tgt Ion:276 Resp: 343891

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 27.4 | 20.5 | 30.7 |
| 277 | 24.3 | 19.0 | 28.6 |




**Instrument :**
BNA_M
**ClientSampleId :**
D9C59

**Manual Integrations APPROVED**
MMDadoda
8/10/2015 7:29:12 PM