Quantitation Report (LSC Reviewed)

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG072415\
Data File : BG018092.D
Acq On : 24 Jul 2015 16:50
Operator : TP/UM
Sample : G3035-13DL 5X
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C02J6DL

**Manual Integrations APPROVED**
apatel
7/27/2015 3:37:25 PM

Quant Time: Jul 25 00:13:15 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG072315.M
Quant Title : SVOA CALIBRATION
QLast Update : Fri Jul 24 23:53:51 2015
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 7.51 | 152 | 58062 | 20.00 | ng/ul | 0.00 |
| 18) Naphthalene-d8 | 10.30 | 136 | 265588 | 20.00 | ng/ul | 0.00 |
| 36) Acenaphthene-d10 | 14.18 | 164 | 174327 | 20.00 | ng/ul | 0.00 |
| 62) Phenanthrene-d10 | 16.94 | 188 | 374324 | 20.00 | ng/ul | 0.00 |
| 78) Chrysene-d12 | 21.15 | 240 | 397196 | 20.00 | ng/ul | 0.00 |
| 86) Perylene-d12 | 23.34 | 264 | 396150 | 20.00 | ng/ul | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 3) 1,4-Dioxane-d8 | 3.01 | 96 | 636m | 0.68 | ng/uL | 0.00 |
| 5) Phenol-d5 | 6.70 | 99 | 13585 | 3.03 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d | 6.86 | 67 | 6623 | 3.00 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4 | 7.05 | 132 | 12656 | 3.19 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8 | 8.23 | 113 | 11421 | 2.88 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5 | 8.67 | 128 | 6774 | 3.23 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4 | 9.38 | 143 | 7576 | 3.42 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3 | 9.92 | 165 | 12139 | 3.15 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4 | 10.44 | 131 | 12861 | 2.87 | ng/ul | 0.00 |
| 44) Dimethylphthalate-d6 | 13.60 | 166 | 43922 | 3.59 | ng/ul | 0.00 |
| 47) Acenaphthylene-d8 | 13.87 | 160 | 49593 | 3.30 | ng/ul | 0.00 |
| 52) 4-Nitrophenol-d4 | 14.41 | 143 | 6570 | 2.55 | ng/ul | 0.00 |
| 58) Fluorene-d10 | 15.18 | 176 | 37663 | 3.33 | ng/ul | 0.00 |
| 63) 4,6-Dinitro-2-methylphenol | 15.31 | 200 | 5661 | 2.37 | ng/ul | 0.00 |
| 71) Anthracene-d10 | 17.03 | 188 | 57711 | 3.56 | ng/ul | 0.00 |
| 79) Pyrene-d10 | 19.35 | 212 | 59928 | 3.29 | ng/ul | 0.00 |
| 90) Benzo(a)pyrene-d12 | 23.20 | 264 | 51977 | 2.75 | ng/ul | 0.00 |
| **Target Compounds** | | | | | | Qvalue |
| 34) 2-Methylnaphthalene | 11.97 | 142 | 9836 | 1.05 | ng/ul | 97 |
| 50) Acenaphthene | 14.25 | 153 | 33209 | 3.21 | ng/ul | 97 |
| 54) Dibenzofuran | 14.58 | 168 | 31481 | 2.14 | ng/ul | 98 |
| 59) Fluorene | 15.24 | 166 | 38248 | 3.02 | ng/ul | 98 |
| 70) Phenanthrene | 16.98 | 178 | 506284 | 26.92 | ng/ul | 100 |
| 72) Anthracene | 17.08 | 178 | 125702 | 6.58 | ng/ul | 97 |
| 75) Carbazole | 17.35 | 167 | 46756 | 2.83 | ng/ul | 98 |
| 77) Fluoranthene | 19.01 | 202 | 574556 | 28.68 | ng/ul | 98 |
| 80) Pyrene | 19.38 | 202 | 626628 | 27.55 | ng/ul | 99 |
| 83) Benzo(a)anthracene | 21.13 | 228 | 292610 | 13.93 | ng/ul | 99 |
| 85) Chrysene | 21.18 | 228 | 289320 | 14.63 | ng/ul | 97 |
| 88) Benzo(b)fluoranthene | 22.68 | 252 | 307173 | 14.15 | ng/ul | 100 |
| 89) Benzo(k)fluoranthene | 22.72 | 252 | 106007m | 5.05 | ng/ul | |
| 91) Benzo(a)pyrene | 23.24 | 252 | 237225 | 11.29 | ng/ul | 98 |
| 92) Indeno(1,2,3-cd)pyrene | 25.55 | 276 | 127928 | 5.28 | ng/ul# | 92 |
| 93) Dibenzo(a,h)anthracene | 25.55 | 278 | 38803 | 1.87 | ng/ul | 96 |
| 94) Benzo(g,h,i)perylene | 26.22 | 276 | 121753 | 6.08 | ng/ul | 99 |

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

Quantitation Report (LSC Reviewed)

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG072415\
Data File : BG018092.D
Acq On : 24 Jul 2015 16:50
Operator : TP/UM
Sample : G3035-13DL 5X
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 25 00:13:15 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG072315.M
Quant Title : SVOA CALIBRATION
QLast Update : Fri Jul 24 23:53:51 2015
Response via : Initial Calibration

**Instrument :**
BNA_G
**ClientSampleId :**
C02J6DL

**Manual Integrations APPROVED**
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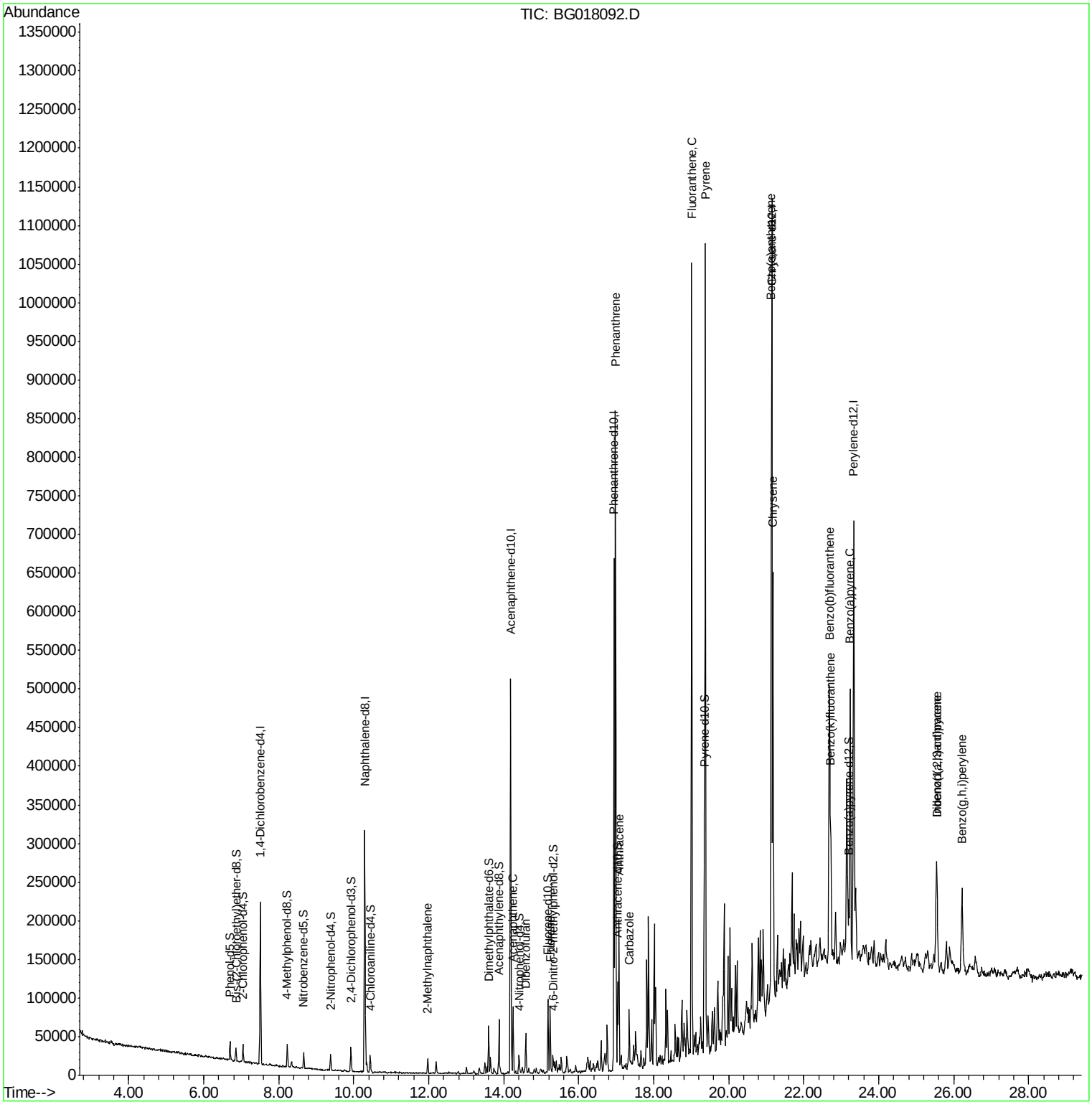
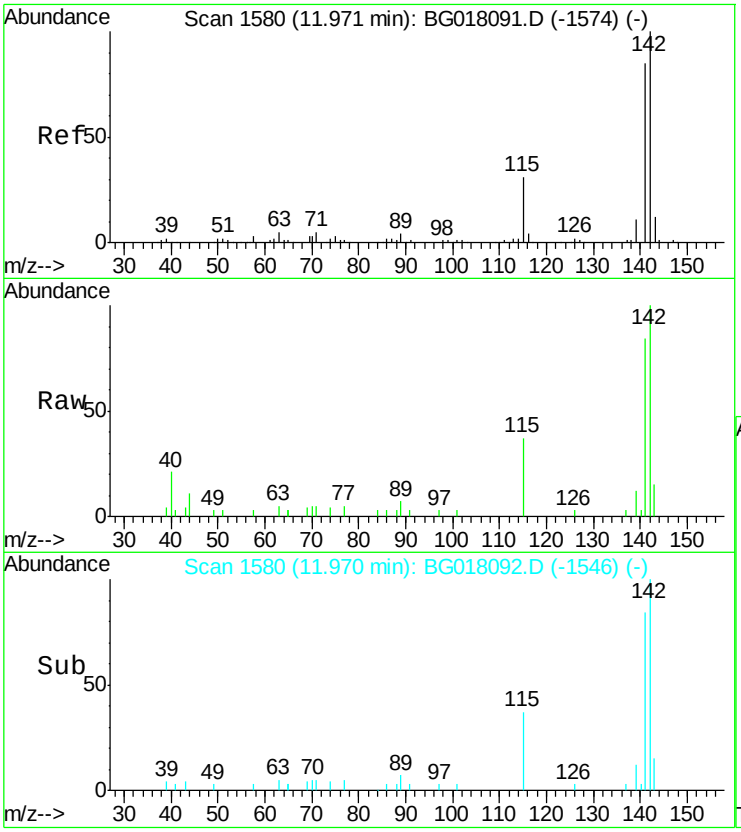
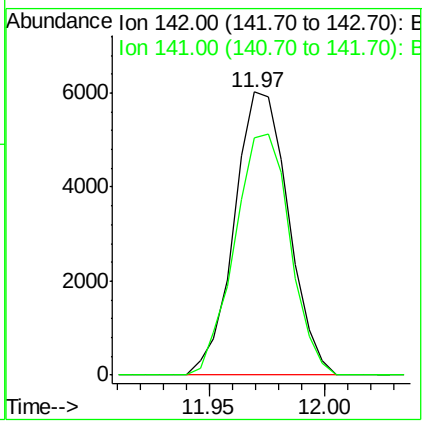





#34
2-Methylnaphthalene
Concen: 1.05 ng/ul
RT: 11.97 min Scan# 1580
Delta R.T. -0.00 min
Lab File: BG018092.D
Acq: 24 Jul 2015 16:50

Tgt Ion:142 Resp: 9836

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 83.6 | 69.4 | 104.0 |




**Instrument :**
BNA_G
**ClientSampleId :**
C02J6DL

**Manual Integrations APPROVED**
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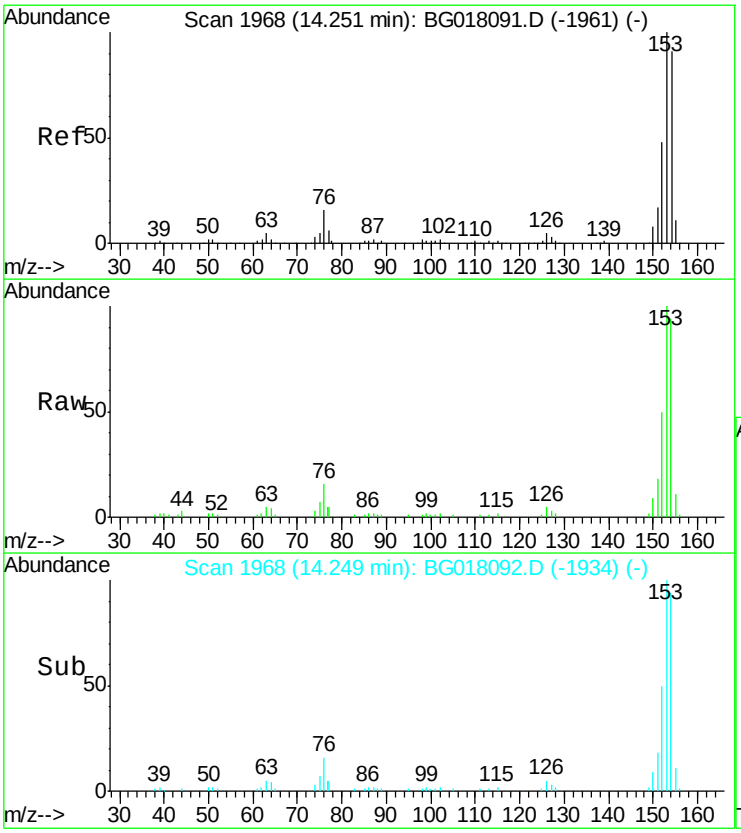
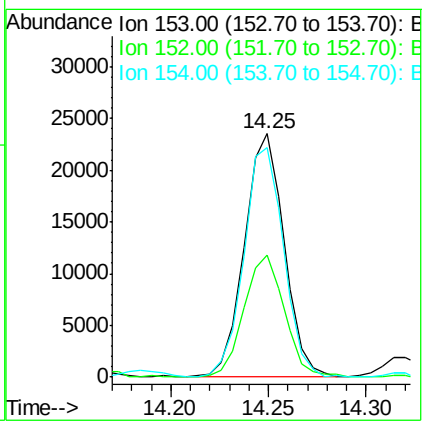
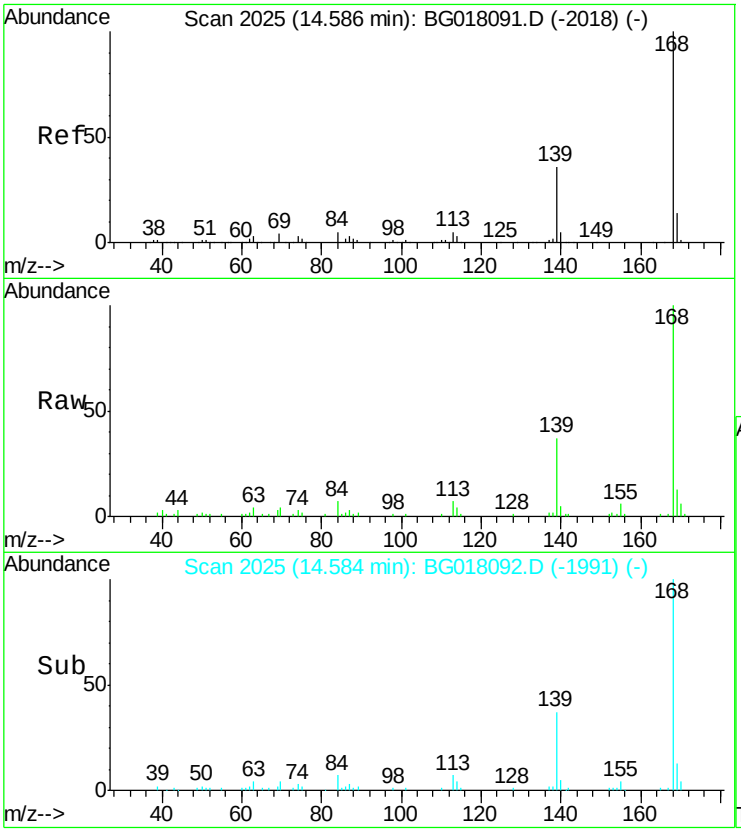



#50
Acenaphthene
Concen: 3.21 ng/ul
RT: 14.25 min Scan# 1968
Delta R.T. -0.00 min
Lab File: BG018092.D
Acq: 24 Jul 2015 16:50

Tgt Ion:153 Resp: 33209

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 153 | 100 | | |
| 152 | 50.1 | 38.9 | 58.3 |
| 154 | 94.5 | 72.6 | 108.8 |

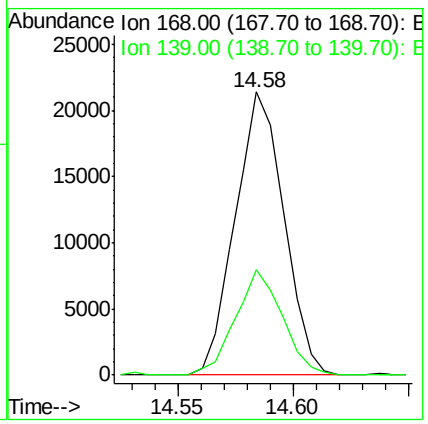





#54
Dibenzofuran
Concen: 2.14 ng/ul
RT: 14.58 min Scan# 2025
Delta R.T. -0.00 min
Lab File: BG018092.D
Acq: 24 Jul 2015 16:50

Tgt Ion:168 Resp: 31481

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 37.2 | 30.6 | 46.0 |




**Instrument :**
BNA_G
**ClientSampleId :**
C02J6DL

**Manual Integrations APPROVED**
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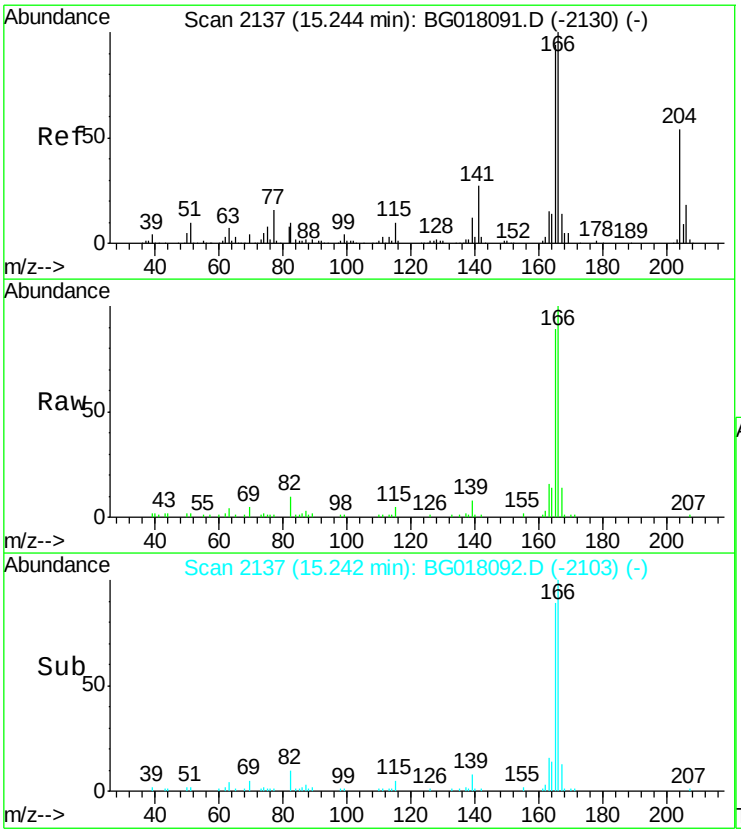
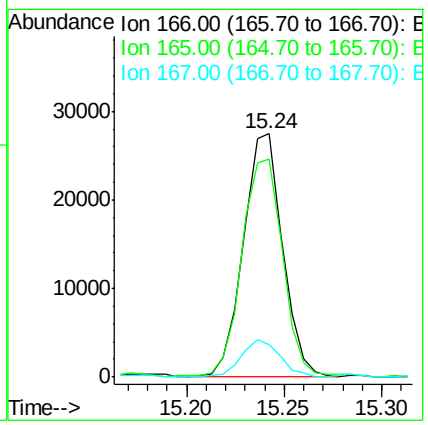
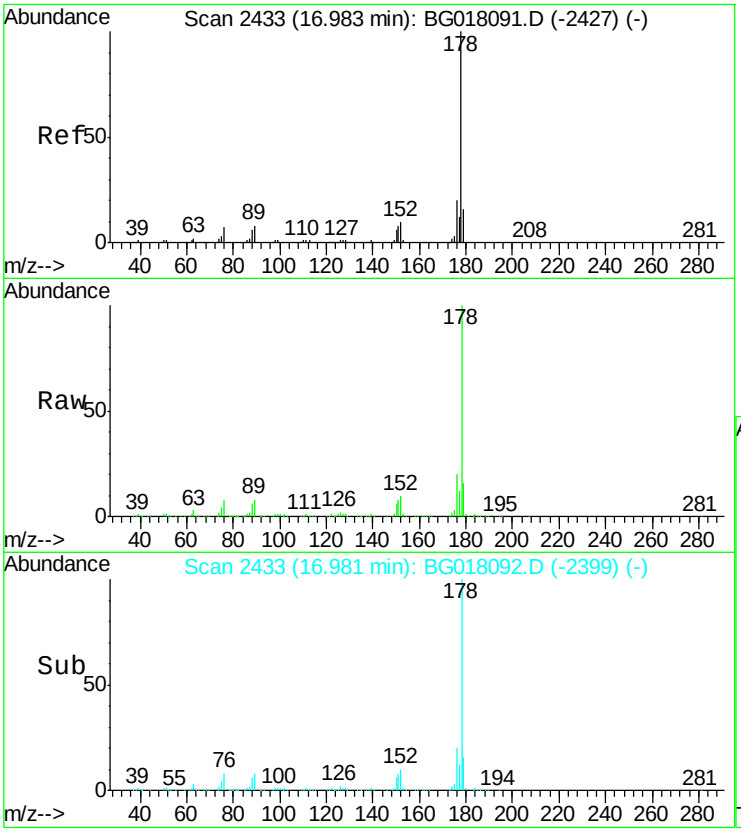



#59
Fluorene
Concen: 3.02 ng/ul
RT: 15.24 min Scan# 2137
Delta R.T. -0.00 min
Lab File: BG018092.D
Acq: 24 Jul 2015 16:50

Tgt Ion:166 Resp: 38248

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 89.4 | 73.6 | 110.4 |
| 167 | 13.5 | 10.8 | 16.2 |

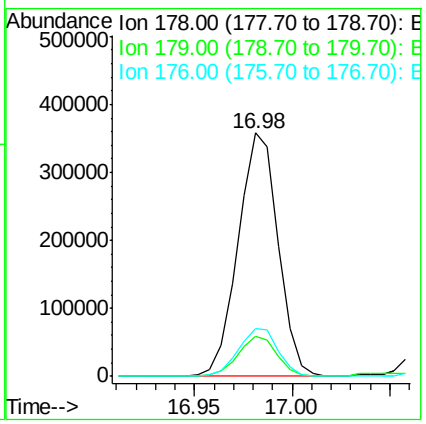





#70
Phenanthrene
Concen: 26.92 ng/ul
RT: 16.98 min Scan# 2433
Delta R.T. -0.00 min
Lab File: BG018092.D
Acq: 24 Jul 2015 16:50

Tgt Ion:178 Resp: 506284

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 179 | 16.2 | 13.0 | 19.6 |
| 176 | 19.5 | 15.8 | 23.8 |




**Instrument :**
BNA_G
**ClientSampleId :**
C02J6DL

**Manual Integrations APPROVED**
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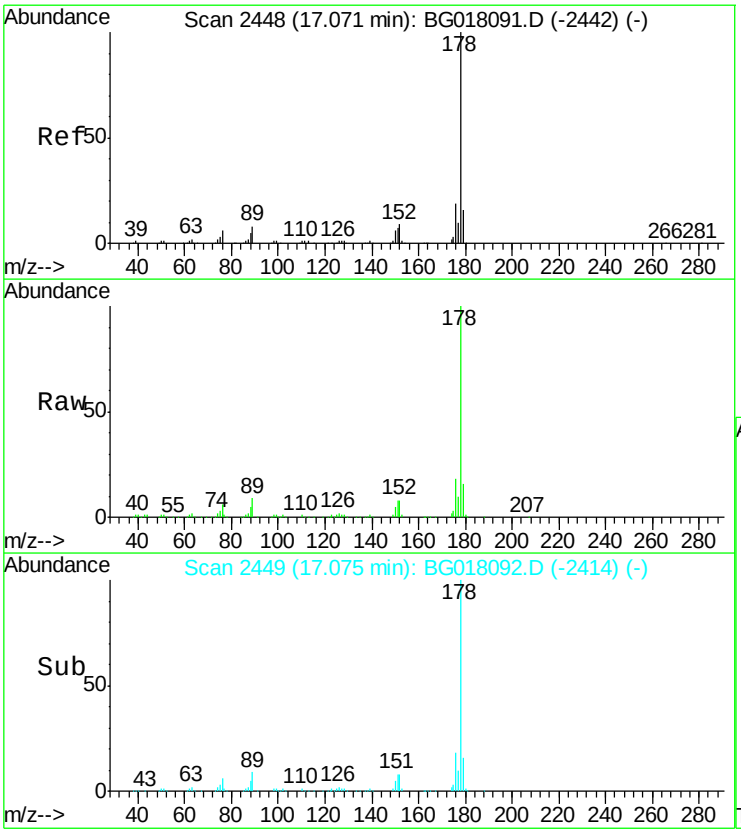
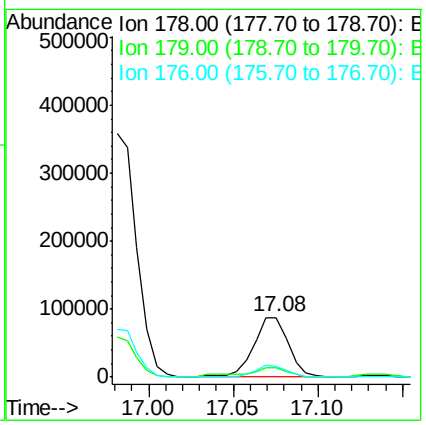
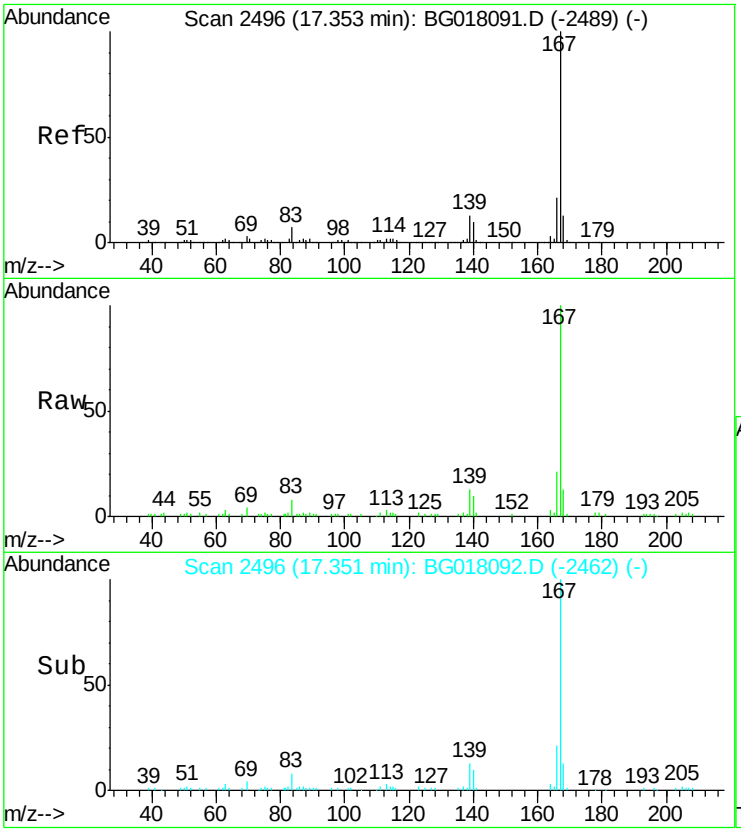



#72
Anthracene
Concen: 6.58 ng/ul
RT: 17.08 min Scan# 2449
Delta R.T. 0.00 min
Lab File: BG018092.D
Acq: 24 Jul 2015 16:50

Tgt Ion:178 Resp: 125702

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 179 | 16.2 | 12.4 | 18.6 |
| 176 | 18.3 | 15.8 | 23.8 |

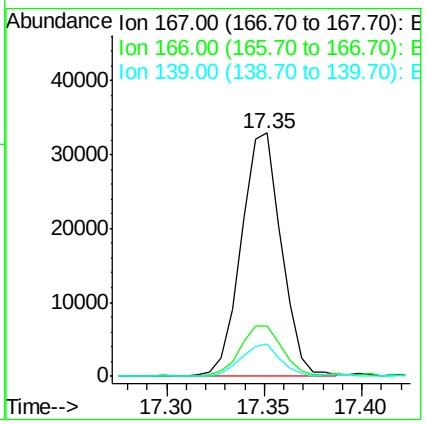





#75
Carbazole
Concen: 2.83 ng/ul
RT: 17.35 min Scan# 2496
Delta R.T. -0.00 min
Lab File: BG018092.D
Acq: 24 Jul 2015 16:50

Tgt Ion:167 Resp: 46756

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 20.5 | 17.4 | 26.2 |
| 139 | 13.1 | 10.6 | 15.8 |




**Instrument :**
BNA_G
**ClientSampleId :**
C02J6DL

**Manual Integrations APPROVED**
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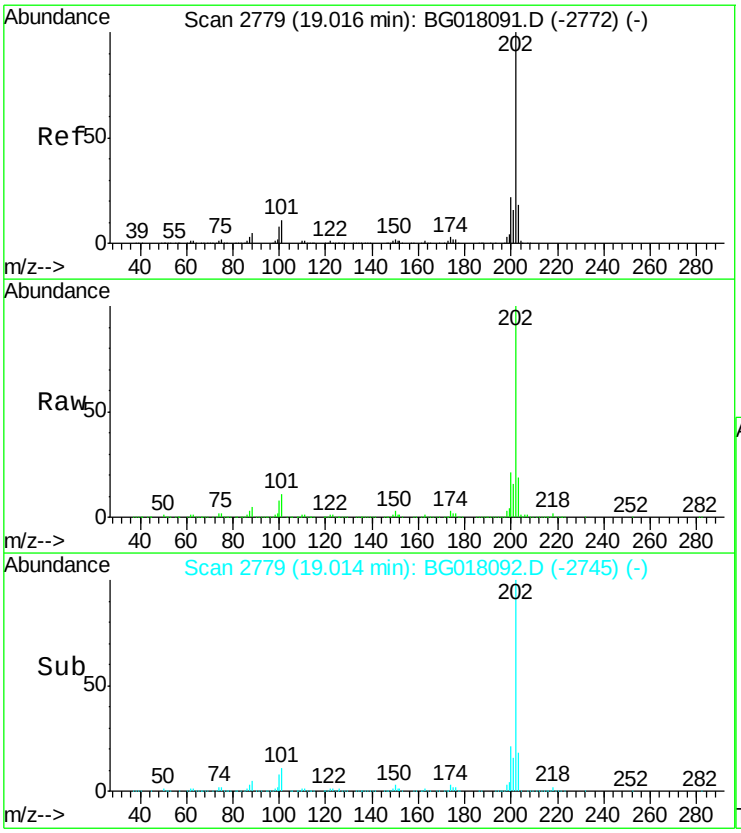
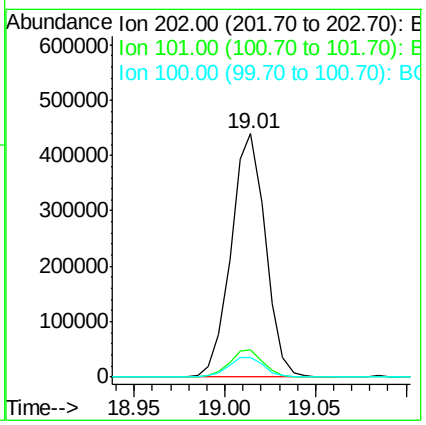
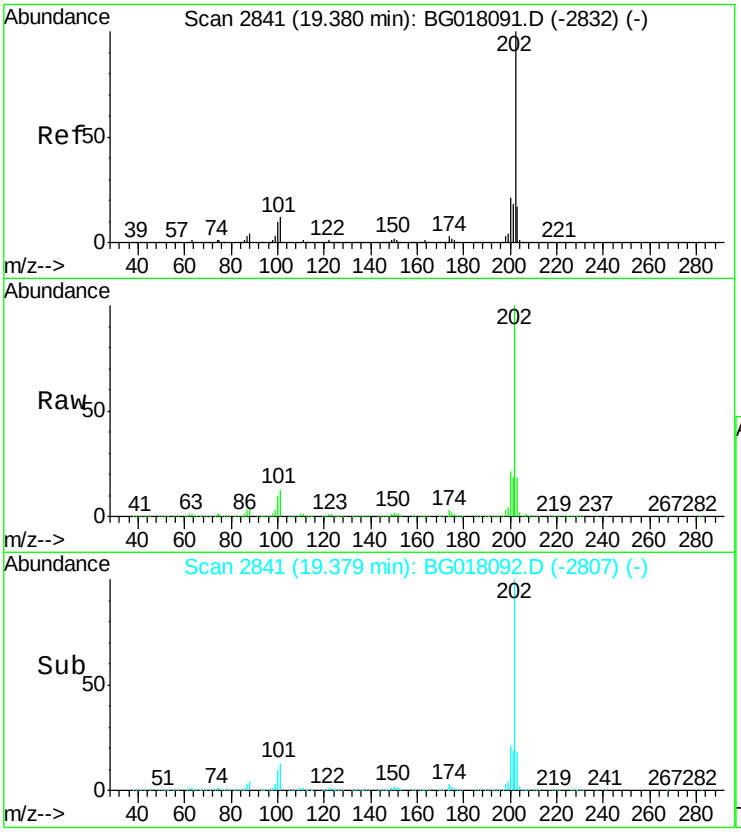



#77
Fluoranthene
Concen: 28.68 ng/ul
RT: 19.01 min Scan# 2779
Delta R.T. -0.00 min
Lab File: BG018092.D
Acq: 24 Jul 2015 16:50

Tgt Ion:202 Resp: 574556

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 11.1 | 9.1 | 13.7 |
| 100 | 8.3 | 7.5 | 11.3 |

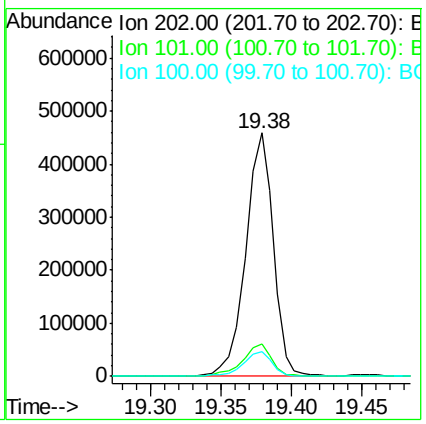





#80
Pyrene
Concen: 27.55 ng/ul
RT: 19.38 min Scan# 2841
Delta R.T. -0.00 min
Lab File: BG018092.D
Acq: 24 Jul 2015 16:50

Tgt Ion:202 Resp: 626628

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 13.1 | 10.9 | 16.3 |
| 100 | 10.3 | 8.5 | 12.7 |




**Instrument :**
BNA_G
**ClientSampleId :**
C02J6DL

**Manual Integrations APPROVED**
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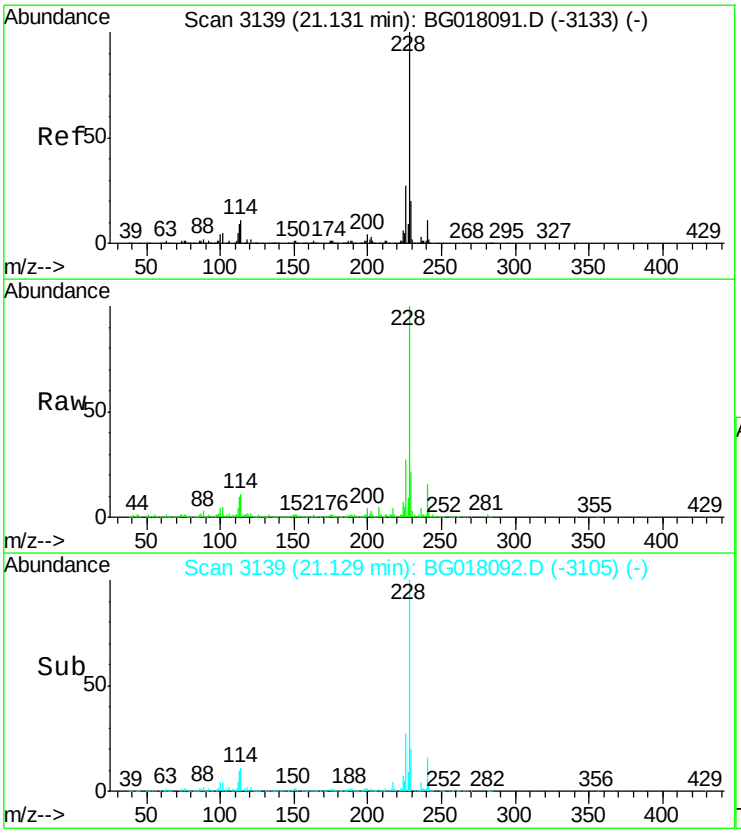
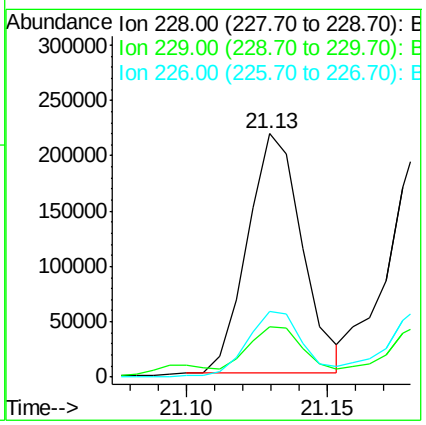
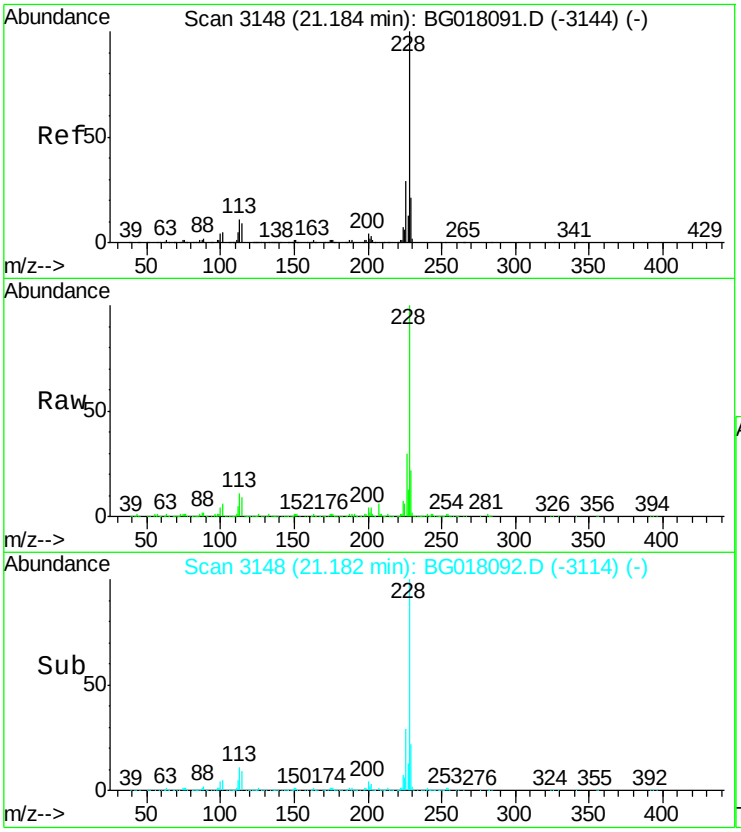



#83
Benzo(a)anthracene
Concen: 13.93 ng/ul
RT: 21.13 min Scan# 3139
Delta R.T. -0.00 min
Lab File: BG018092.D
Acq: 24 Jul 2015 16:50

Tgt Ion:228 Resp: 292610

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 229 | 20.7 | 16.6 | 24.8 |
| 226 | 26.8 | 21.1 | 31.7 |

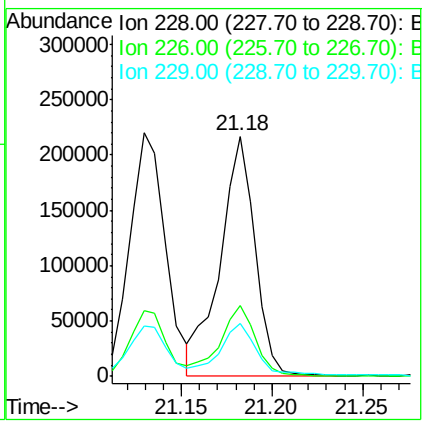





#85
Chrysene
Concen: 14.63 ng/ul
RT: 21.18 min Scan# 3148
Delta R.T. -0.00 min
Lab File: BG018092.D
Acq: 24 Jul 2015 16:50

Tgt Ion:228 Resp: 289320

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 29.5 | 22.9 | 34.3 |
| 229 | 21.8 | 15.6 | 23.4 |




**Instrument :**
BNA_G
**ClientSampleId :**
C02J6DL

**Manual Integrations APPROVED**
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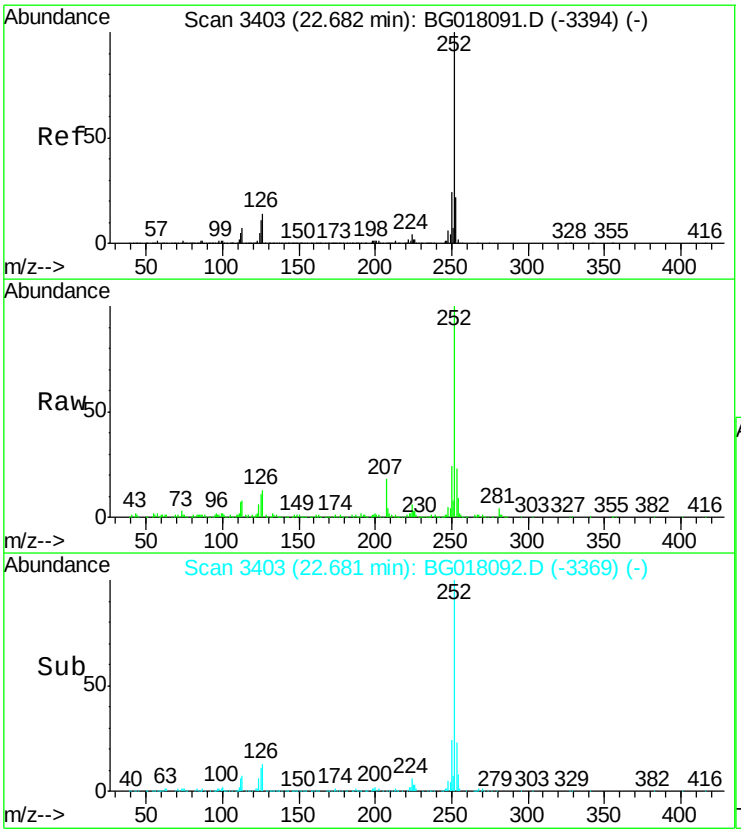
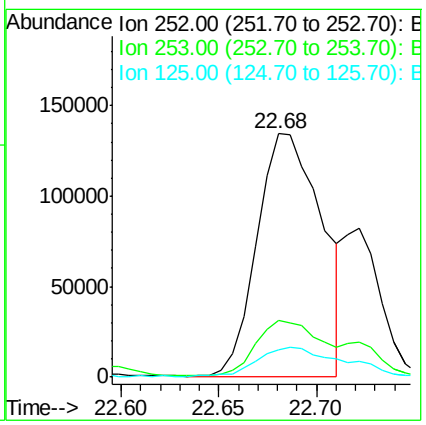
7/27/2015 3:37:25 PM

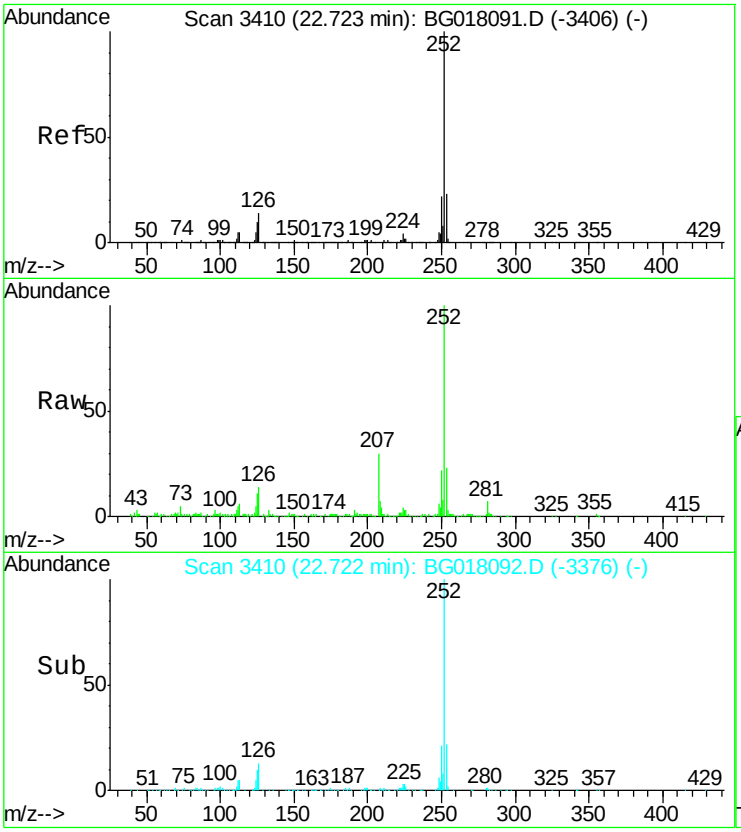



#88
Benzo(b)fluoranthene
Concen: 14.15 ng/ul
RT: 22.68 min Scan# 3403
Delta R.T. -0.00 min
Lab File: BG018092.D
Acq: 24 Jul 2015 16:50

Tgt Ion:252 Resp: 307173

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 23.2 | 18.5 | 27.7 |
| 125 | 11.4 | 9.1 | 13.7 |

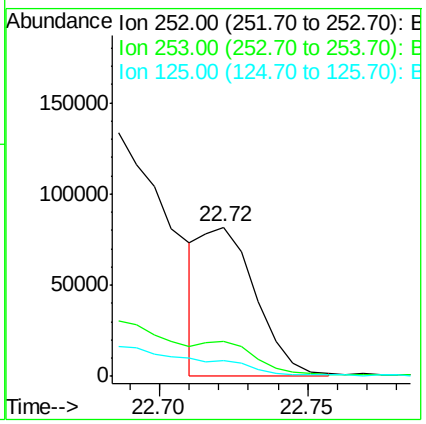





#89
Benzo(k)fluoranthene
Concen: 5.05 ng/ul m
RT: 22.72 min Scan# 3410
Delta R.T. -0.00 min
Lab File: BG018092.D
Acq: 24 Jul 2015 16:50

Tgt Ion:252 Resp: 106007

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 23.2 | 17.8 | 26.8 |
| 125 | 10.5 | 9.3 | 13.9 |




**Instrument :**
BNA_G
**ClientSampleId :**
C02J6DL

**Manual Integrations APPROVED**
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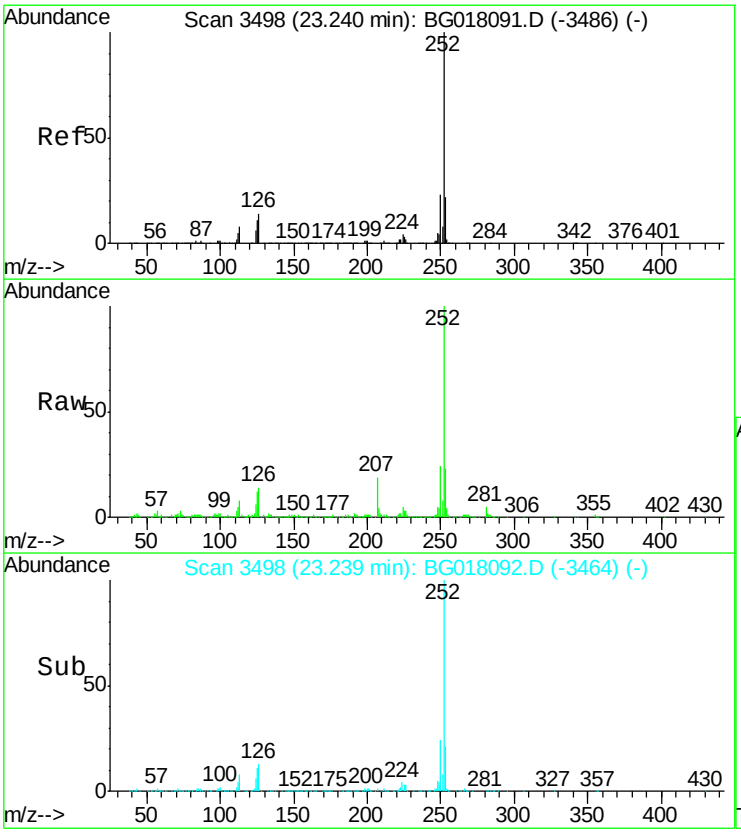
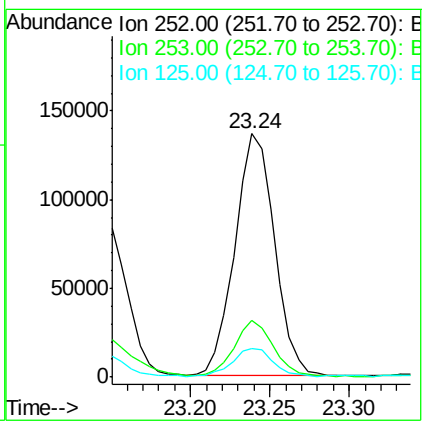
7/27/2015 3:37:25 PM

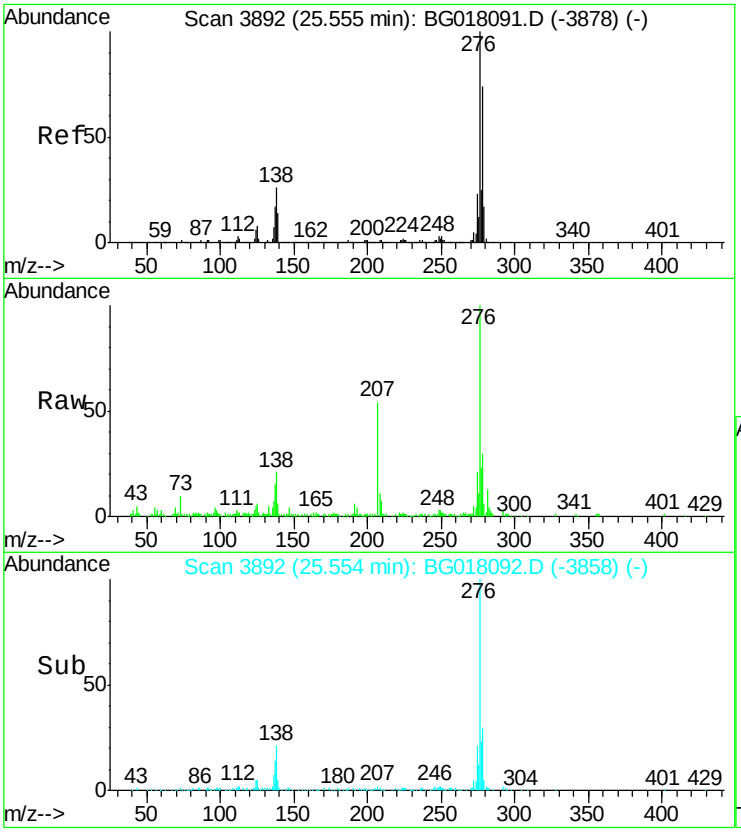



#91
Benzo(a)pyrene
Concen: 11.29 ng/ul
RT: 23.24 min Scan# 3498
Delta R.T. -0.00 min
Lab File: BG018092.D
Acq: 24 Jul 2015 16:50

Tgt Ion:252 Resp: 237225

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 23.1 | 18.0 | 27.0 |
| 125 | 11.6 | 10.2 | 15.2 |






#92
Indeno(1,2,3-cd)pyrene
Concen: 5.28 ng/ul
RT: 25.55 min Scan# 3892
Delta R.T. -0.00 min
Lab File: BG018092.D
Acq: 24 Jul 2015 16:50

Tgt Ion:276 Resp: 127928

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 21.3 | 22.6 | 33.8# |
| 277 | 23.4 | 19.8 | 29.8 |

**Instrument :**
BNA_G
**ClientSampleId :**
C02J6DL

**Manual Integrations APPROVED**
apatel
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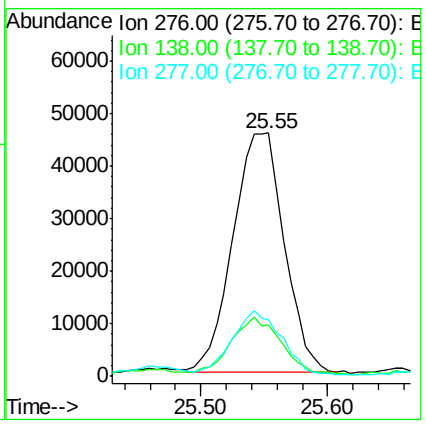
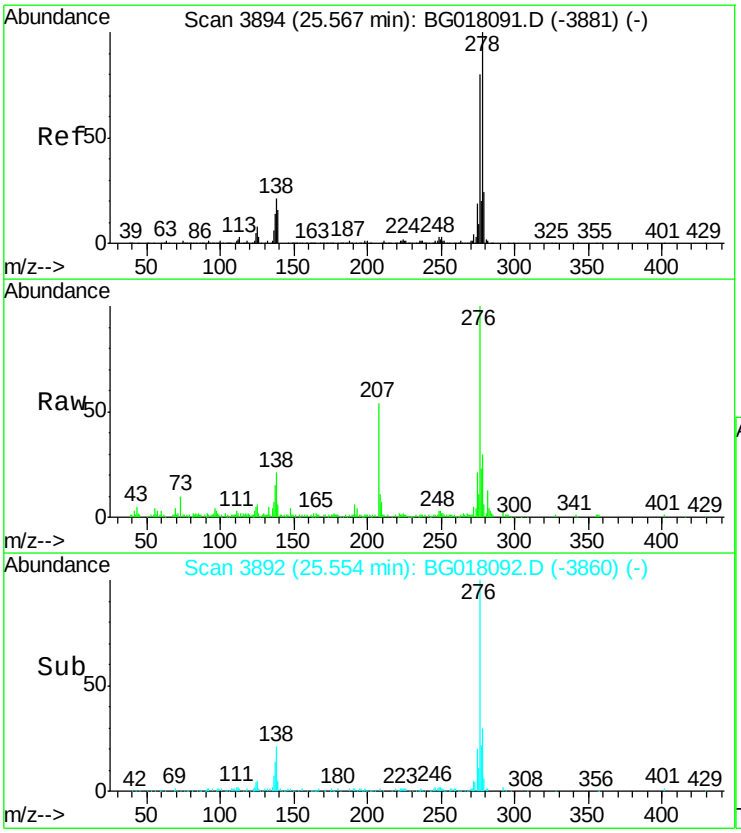
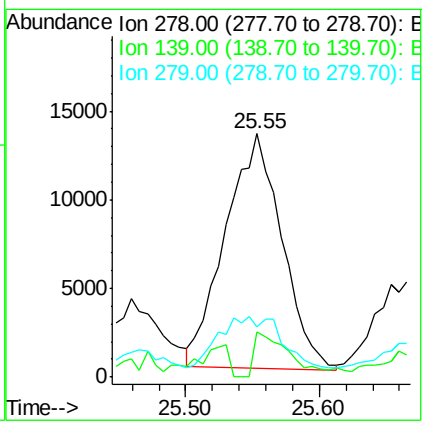


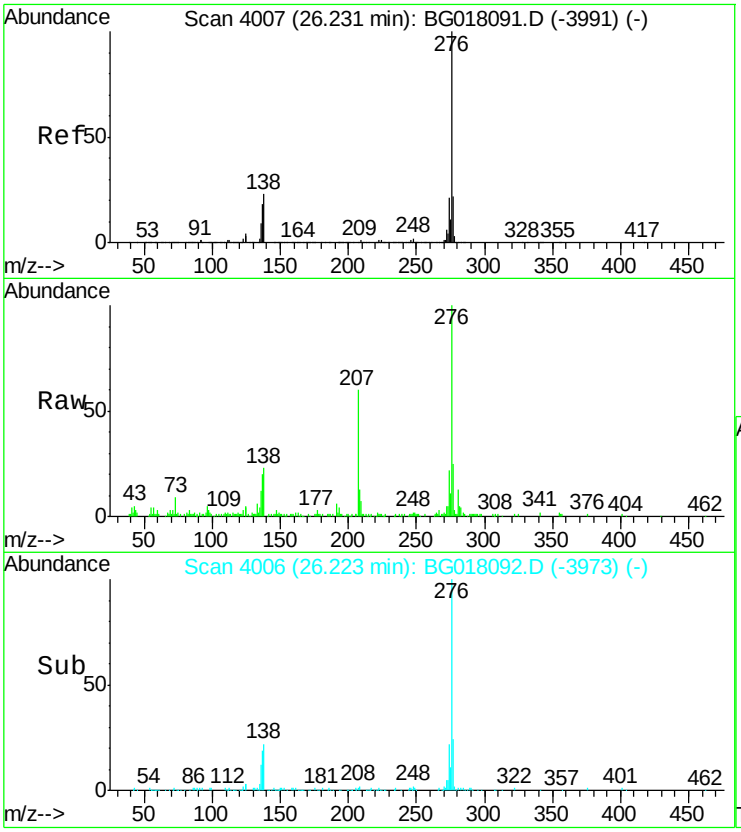




#93
Dibenzo(a,h)anthracene
Concen: 1.87 ng/ul
RT: 25.55 min Scan# 3892
Delta R.T. -0.01 min
Lab File: BG018092.D
Acq: 24 Jul 2015 16:50

Tgt Ion:278 Resp: 38803

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 18.7 | 13.7 | 20.5 |
| 279 | 20.8 | 18.1 | 27.1 |

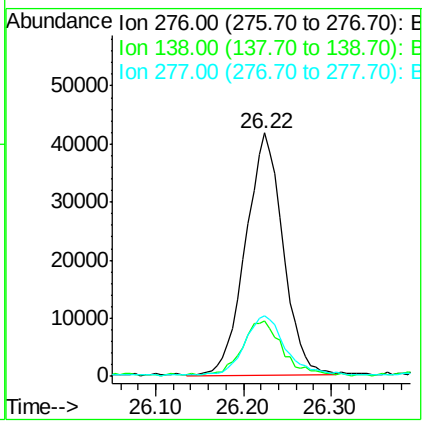





#94
Benzo(g,h,i)perylene
Concen: 6.08 ng/ul
RT: 26.22 min Scan# 4006
Delta R.T. -0.01 min
Lab File: BG018092.D
Acq: 24 Jul 2015 16:50

Tgt Ion:276 Resp: 121753

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 22.6 | 18.8 | 28.2 |
| 277 | 24.7 | 19.3 | 28.9 |




**Instrument :**
BNA_G
**ClientSampleId :**
C02J6DL

**Manual Integrations APPROVED**
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