Quantitation Report (LSC Reviewed)

Data Path : Z:\HPCHEM1\BNA_G\Data\BG080415\
Data File : BG018264.D
Acq On : 4 Aug 2015 21:50
Operator : UM/TP
Sample : G3109-08
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** C01J2

**Manual Integrations APPROVED**
MMDadoda
8/7/2015 4:40:43 PM

Quant Time: Aug 14 03:04:47 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG073115.M
Quant Title : SVOA CALIBRATION
QLast Update : Wed Aug 05 02:27:11 2015
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 7.46 | 152 | 43105 | 20.00 | ng/ul | 0.01 |
| 18) Naphthalene-d8 | 10.24 | 136 | 193886 | 20.00 | ng/ul | 0.00 |
| 36) Acenaphthene-d10 | 14.14 | 164 | 116558 | 20.00 | ng/ul | 0.01 |
| 62) Phenanthrene-d10 | 16.90 | 188 | 187759 | 20.00 | ng/ul | 0.01 |
| 78) Chrysene-d12 | 21.12 | 240 | 170671 | 20.00 | ng/ul | 0.02 |
| 86) Perylene-d12 | 23.31 | 264 | 148244m | 20.00 | ng/ul | 0.05 |
| **System Monitoring Compounds** | | | | | | |
| 3) 1,4-Dioxane-d8 | 2.93 | 96 | 797 | 1.40 | ng/uL | 0.00 |
| 5) Phenol-d5 | 6.66 | 99 | 62480 | 16.12 | ng/ul | 0.02 |
| 7) Bis-(2-Chloroethyl)ether-d | 6.80 | 67 | 30954 | 15.62 | ng/ul | 0.01 |
| 9) 2-Chlorophenol-d4 | 6.99 | 132 | 52839 | 18.05 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8 | 8.20 | 113 | 24594 | 7.79 | ng/ul | 0.02 |
| 19) Nitrobenzene-d5 | 8.61 | 128 | 28703 | 18.79 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4 | 9.33 | 143 | 33450 | 19.08 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3 | 9.88 | 165 | 54699 | 17.66 | ng/ul | 0.01 |
| 29) 4-Chloroaniline-d4 | 10.40 | 131 | 5911 | 1.53 | ng/ul | 0.02 |
| 44) Dimethylphthalate-d6 | 13.56 | 166 | 174842 | 19.41 | ng/ul | 0.01 |
| 47) Acenaphthylene-d8 | 13.83 | 160 | 205159 | 19.64 | ng/ul | 0.01 |
| 52) 4-Nitrophenol-d4 | 14.40 | 143 | 21147 | 12.69 | ng/ul | 0.01 |
| 58) Fluorene-d10 | 15.14 | 176 | 149516 | 18.34 | ng/ul | 0.01 |
| 63) 4,6-Dinitro-2-methylphenol | 15.30 | 200 | 12695 | 9.68 | ng/ul | 0.02 |
| 71) Anthracene-d10 | 17.01 | 188 | 163714 | 20.05 | ng/ul | 0.02 |
| 79) Pyrene-d10 | 19.32 | 212 | 128748 | 15.59 | ng/ul | 0.02 |
| 90) Benzo(a)pyrene-d12 | 23.17 | 264 | 153269m | 20.44 | ng/ul | 0.05 |
| **Target Compounds** | | | | | | Qvalue |
| 28) Naphthalene | 10.29 | 128 | 58620 | 6.28 | ng/ul | 97 |
| 34) 2-Methylnaphthalene | 11.92 | 142 | 24076 | 3.26 | ng/ul | 96 |
| 41) 1,1'-Biphenyl | 12.96 | 154 | 15040 | 1.81 | ng/ul# | 89 |
| 45) Dimethylphthalate | 13.60 | 163 | 70097 | 7.82 | ng/ul# | 95 |
| 48) Acenaphthylene | 13.86 | 152 | 111442 | 10.74 | ng/ul | 98 |
| 50) Acenaphthene | 14.20 | 153 | 116314 | 17.22 | ng/ul | 93 |
| 54) Dibenzofuran | 14.54 | 168 | 207921m | 20.43 | ng/ul | |
| 59) Fluorene | 15.20 | 166 | 283047 | 32.24 | ng/ul | 96 |
| 70) Phenanthrene | 16.96 | 178 | 3094842m | 324.46 | ng/ul | |
| 72) Anthracene | 17.04 | 178 | 636264 | 67.05 | ng/ul | 99 |
| 75) Carbazole | 17.32 | 167 | 189725 | 24.06 | ng/ul | 98 |
| 76) Di-n-butylphthalate | 17.88 | 149 | 13475 | 1.28 | ng/ul# | 81 |
| 77) Fluoranthene | 19.00 | 202 | 3403032m | 324.84 | ng/ul | |
| 80) Pyrene | 19.37 | 202 | 2805656 | 271.02 | ng/ul | 98 |
| 83) Benzo(a)anthracene | 21.11 | 228 | 1684932 | 183.32 | ng/ul# | 89 |
| 85) Chrysene | 21.17 | 228 | 1540483 | 182.98 | ng/ul# | 90 |
| 88) Benzo(b)fluoranthene | 22.68 | 252 | 2115576m | 237.55 | ng/ul | |
| 89) Benzo(k)fluoranthene | 22.70 | 252 | 753213m | 92.03 | ng/ul | |
| 91) Benzo(a)pyrene | 23.23 | 252 | 1514343m | 190.07 | ng/ul | |
| 92) Indeno(1,2,3-cd)pyrene | 25.54 | 276 | 788137m | 85.51 | ng/ul | |
| 93) Dibenzo(a,h)anthracene | 25.54 | 278 | 184284m | 23.35 | ng/ul | |
| 94) Benzo(g,h,i)perylene | 26.22 | 276 | 594326m | 78.95 | ng/ul | |

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Data Path : Z:\HPCHEM1\BNA_G\Data\BG080415\
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Operator : UM/TP
Sample : G3109-08
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Aug 14 03:04:47 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG073115.M
Quant Title : SVOA CALIBRATION
QLast Update : Wed Aug 05 02:27:11 2015
Response via : Initial Calibration

**Instrument :**
BNA_G
**ClientSampleId :**
C01J2

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| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

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

Quantitation Report (LSC Reviewed)

Data Path : Z:\HPCHEM1\BNA_G\Data\BG080415\
Data File : BG018264.D
Acq On : 4 Aug 2015 21:50
Operator : UM/TP
Sample : G3109-08
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Aug 14 03:04:47 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG073115.M
Quant Title : SVOA CALIBRATION
QLast Update : Wed Aug 05 02:27:11 2015
Response via : Initial Calibration

**Instrument :**
BNA_G
**ClientSampleId :**
C01J2

**Manual Integrations APPROVED**
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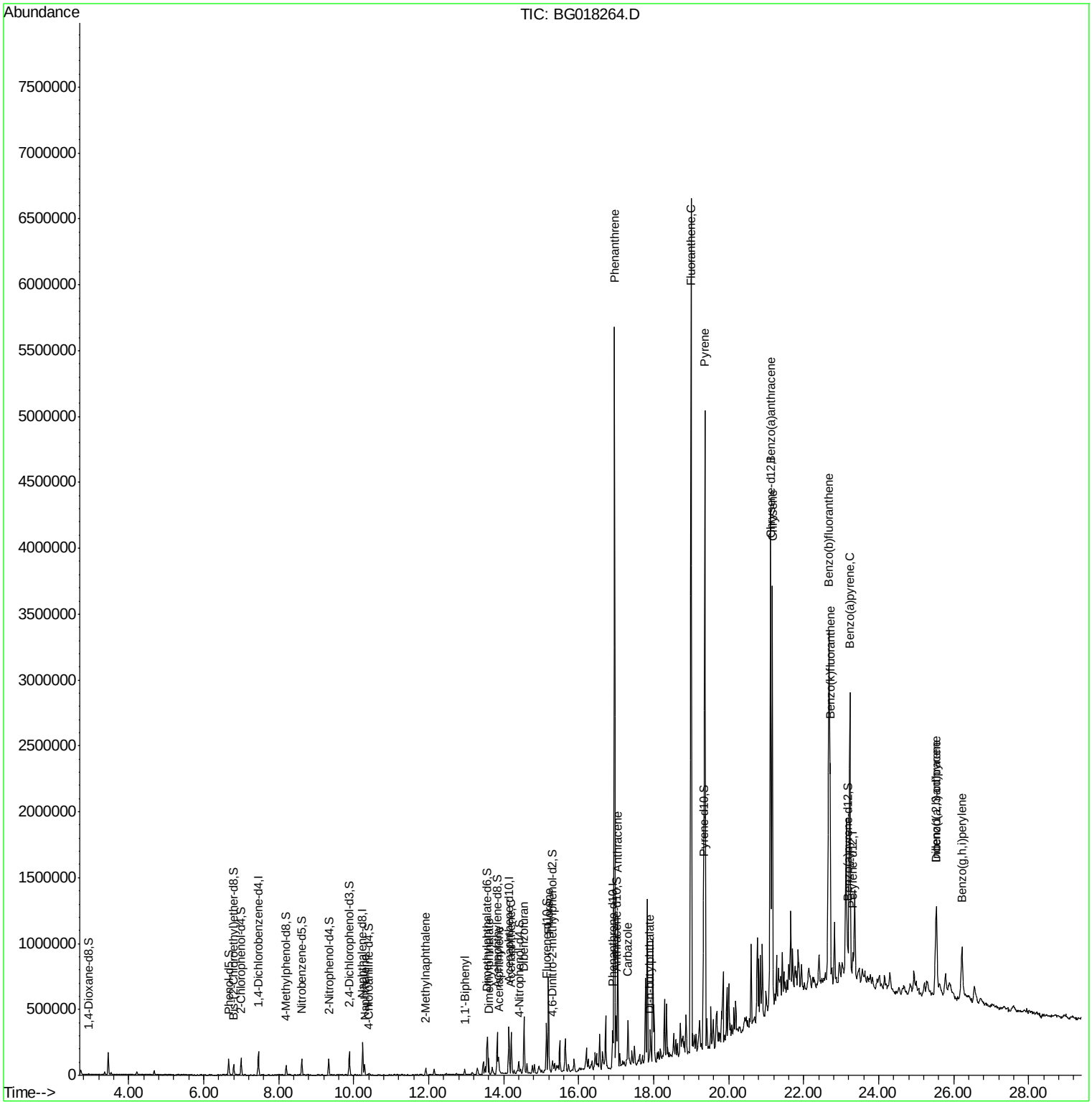
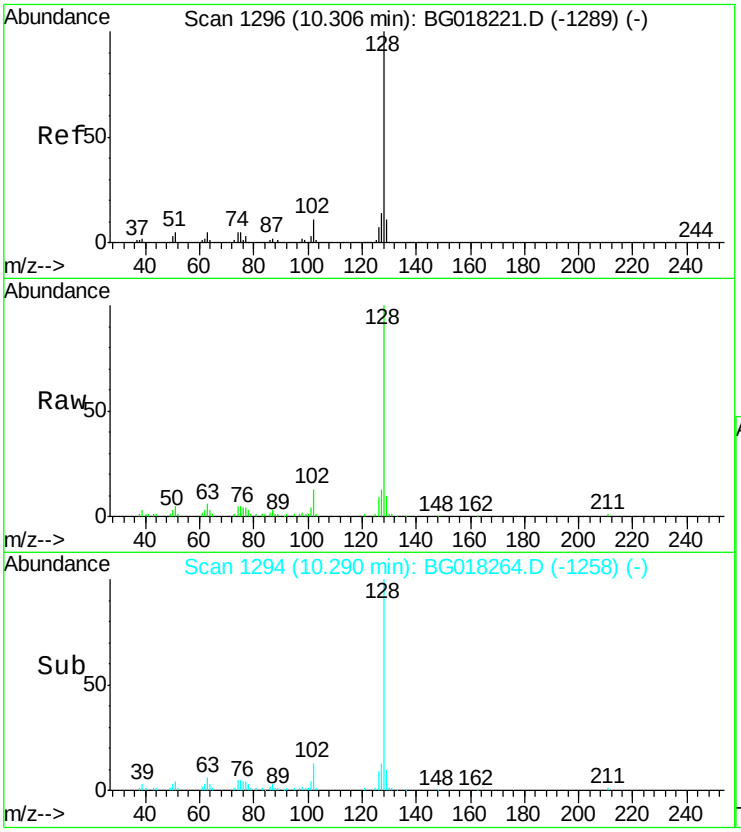
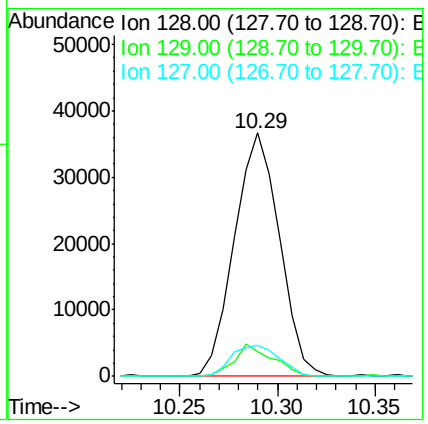





#28
Naphthalene
Concen: 6.28 ng/ul
RT: 10.29 min Scan# 1294
Delta R.T. 0.01 min
Lab File: BG018264.D
Acq: 4 Aug 2015 21:50

Tgt Ion:128 Resp: 58620

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 10.3 | 9.1 | 13.7 |
| 127 | 12.7 | 11.2 | 16.8 |




**Instrument :**
BNA_G
**ClientSampleId :**
C01J2

**Manual Integrations APPROVED**
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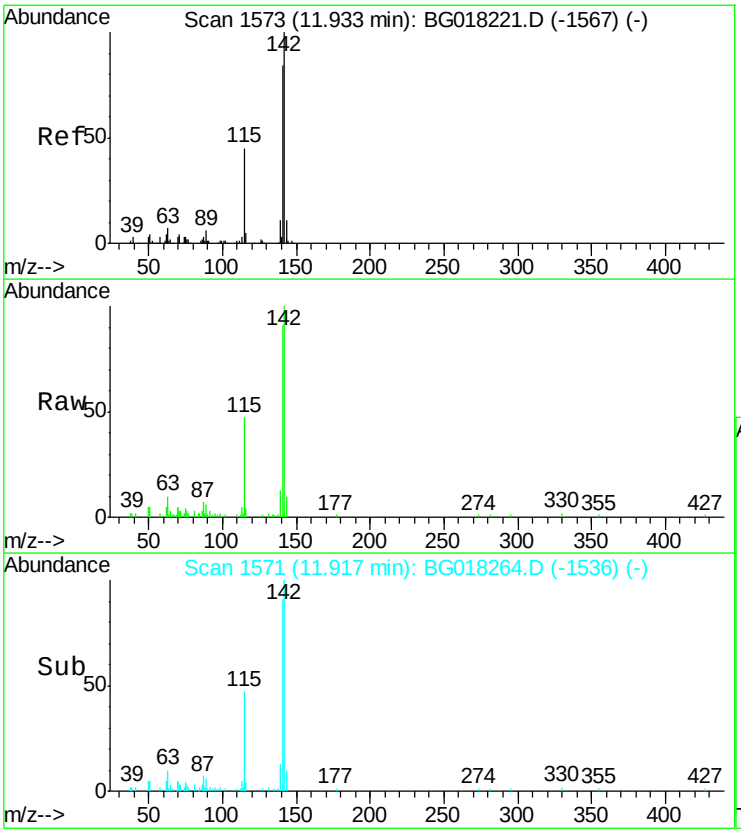
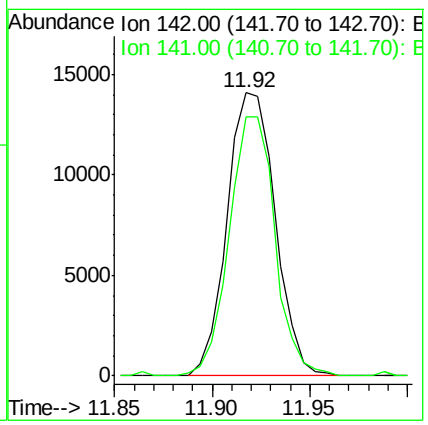
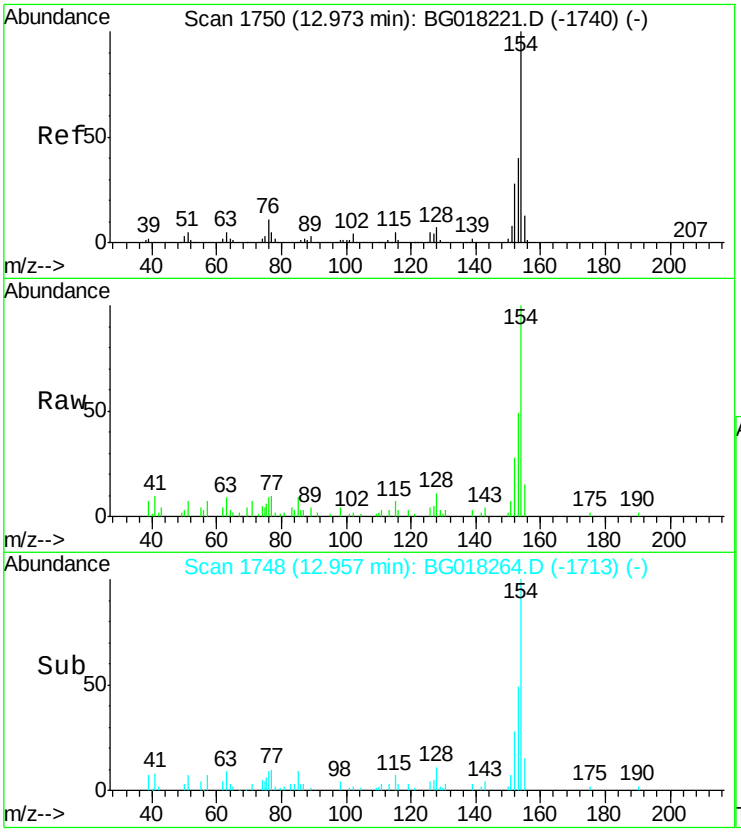



#34
2-Methylnaphthalene
Concen: 3.26 ng/ul
RT: 11.92 min Scan# 1571
Delta R.T. 0.00 min
Lab File: BG018264.D
Acq: 4 Aug 2015 21:50

Tgt Ion:142 Resp: 24076

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 91.5 | 70.3 | 105.5 |






#41
1,1'-Biphenyl
Concen: 1.81 ng/ul
RT: 12.96 min Scan# 1748
Delta R.T. 0.00 min
Lab File: BG018264.D
Acq: 4 Aug 2015 21:50

Tgt Ion:154 Resp: 15040

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 48.8 | 32.3 | 48.5# |
| 76 | 9.2 | 7.4 | 11.0 |

**Instrument :**
BNA_G
**ClientSampleId :**
C01J2

**Manual Integrations APPROVED**
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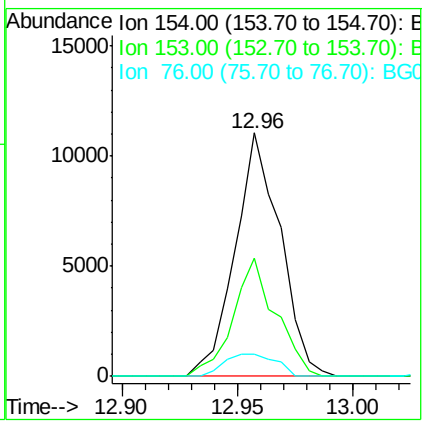
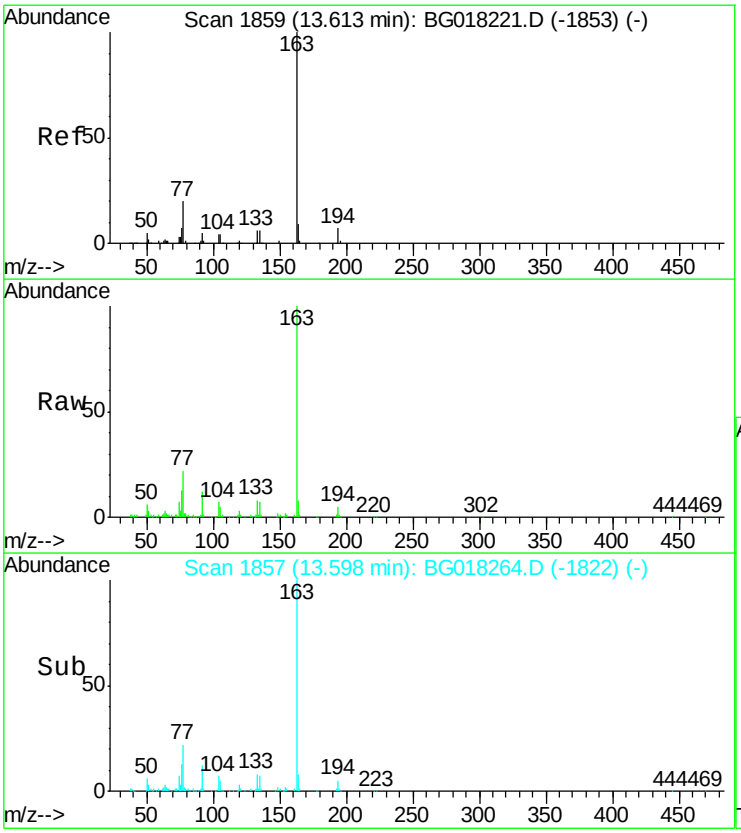
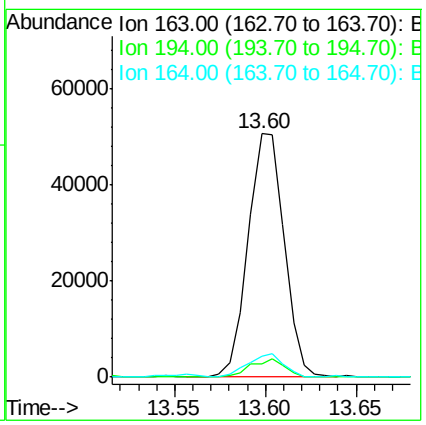


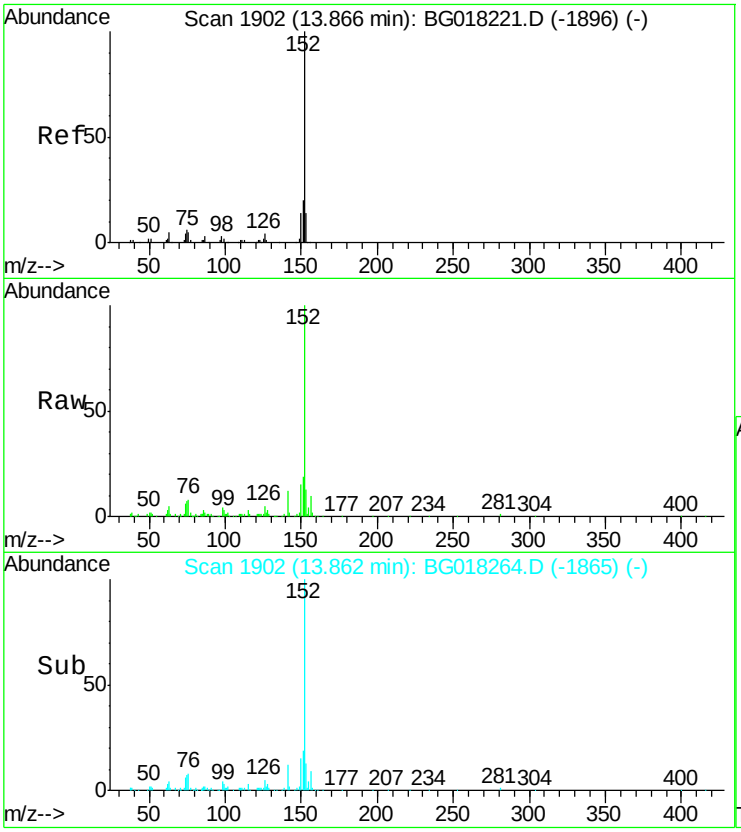




#45
Dimethylphthalate
Concen: 7.82 ng/ul
RT: 13.60 min Scan# 1857
Delta R.T. 0.00 min
Lab File: BG018264.D
Acq: 4 Aug 2015 21:50

Tgt Ion:163 Resp: 70097

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 163 | 100 | | |
| 194 | 5.3 | 5.2 | 7.8 |
| 164 | 8.3 | 8.4 | 12.6# |

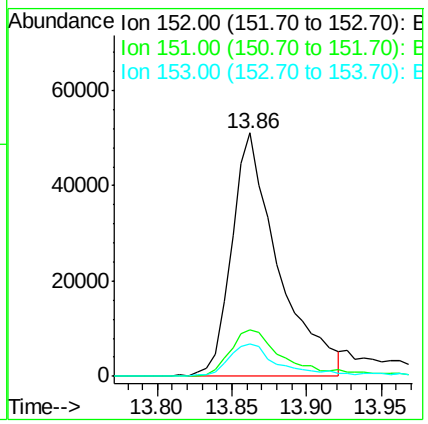





#48
Acenaphthylene
Concen: 10.74 ng/ul
RT: 13.86 min Scan# 1902
Delta R.T. 0.02 min
Lab File: BG018264.D
Acq: 4 Aug 2015 21:50

Tgt Ion:152 Resp: 111442

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 19.2 | 16.0 | 24.0 |
| 153 | 13.1 | 11.0 | 16.4 |




**Instrument :**
BNA_G
**ClientSampleId :**
C01J2

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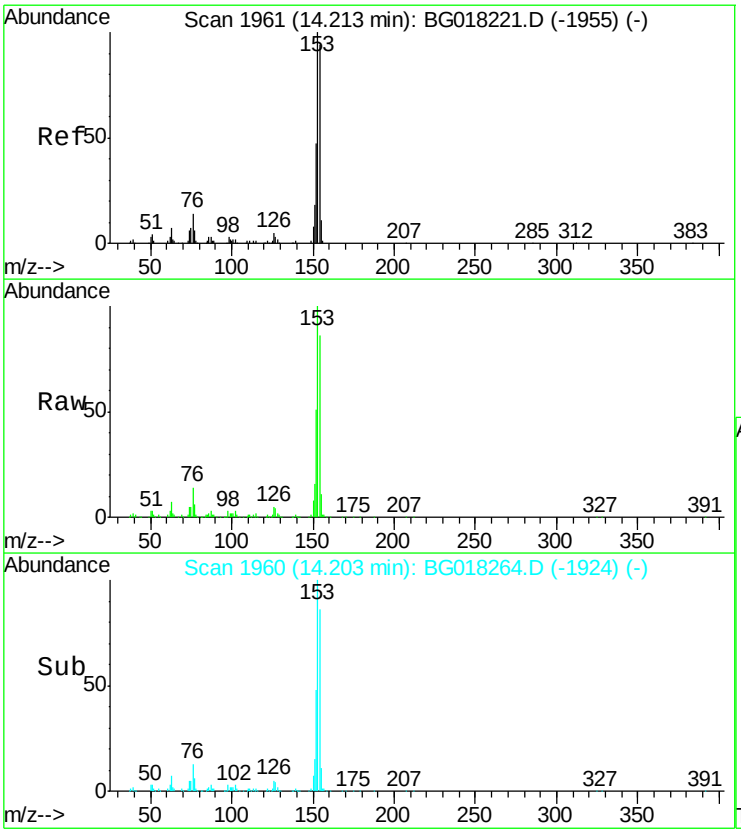
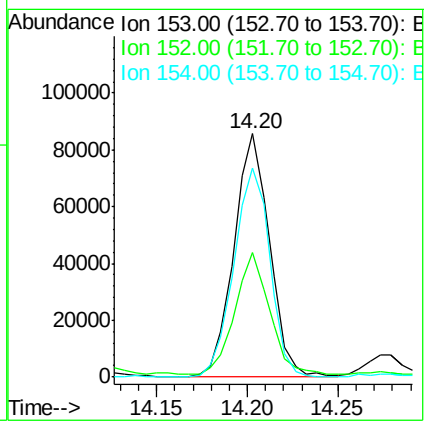
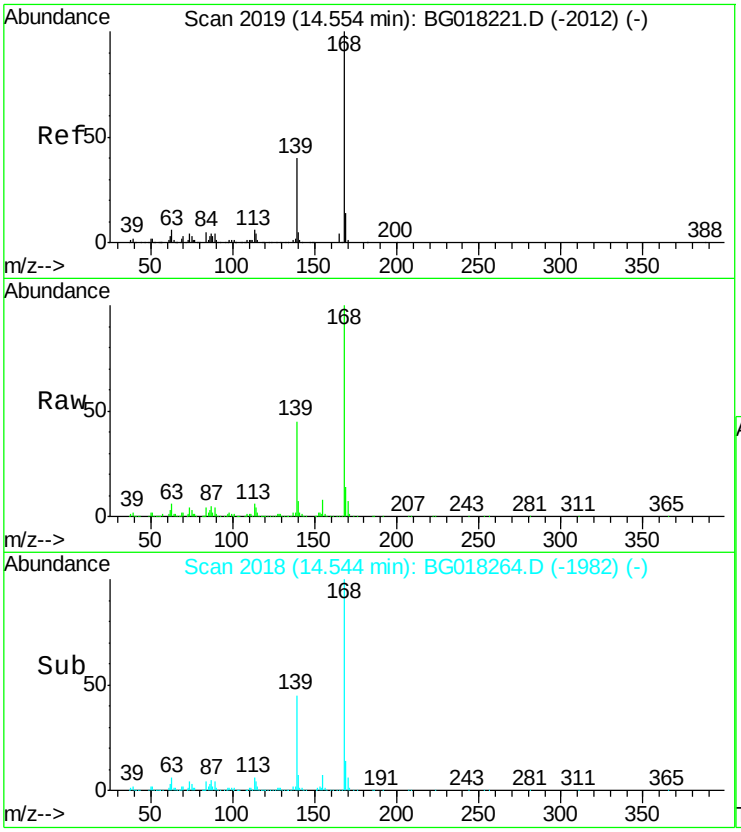



#50
Acenaphthene
Concen: 17.22 ng/ul
RT: 14.20 min Scan# 1960
Delta R.T. 0.01 min
Lab File: BG018264.D
Acq: 4 Aug 2015 21:50

Tgt Ion:153 Resp: 116314

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 153 | 100 | | |
| 152 | 51.3 | 38.7 | 58.1 |
| 154 | 86.1 | 74.8 | 112.2 |






#54
Dibenzofuran
Concen: 20.43 ng/ul m
RT: 14.54 min Scan# 2018
Delta R.T. 0.01 min
Lab File: BG018264.D
Acq: 4 Aug 2015 21:50

Tgt Ion:168 Resp: 207921

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 44.8 | 26.8 | 40.2# |

**Instrument :**
BNA_G
**ClientSampleId :**
C01J2

**Manual Integrations APPROVED**
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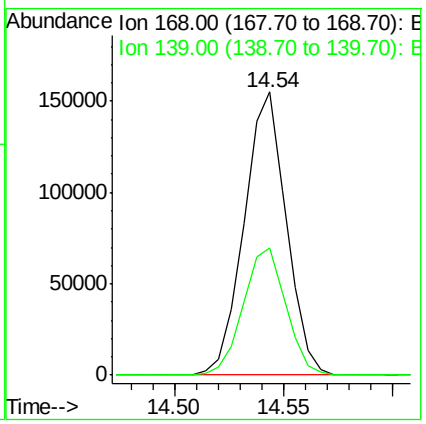
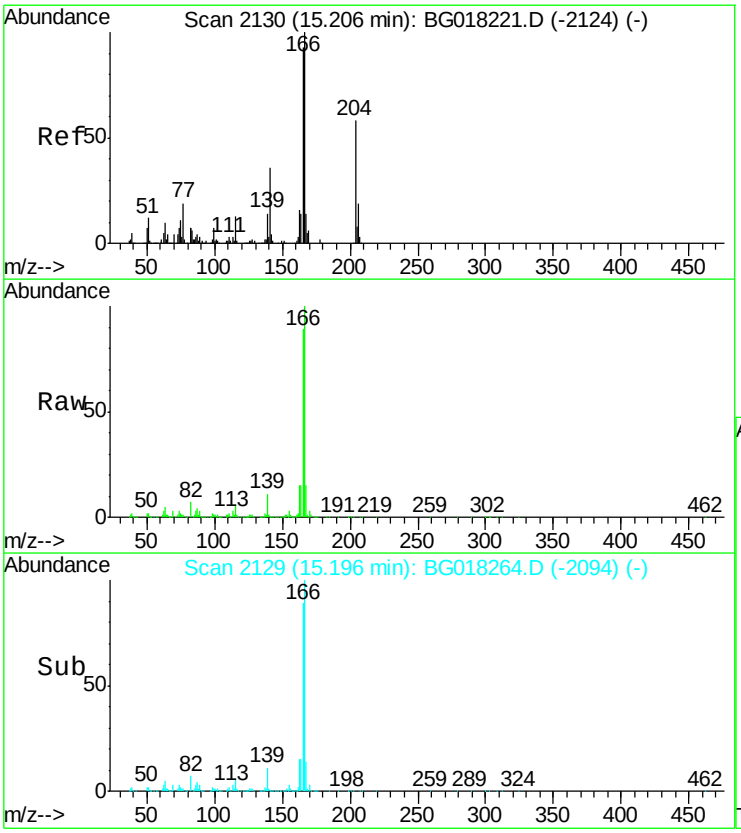
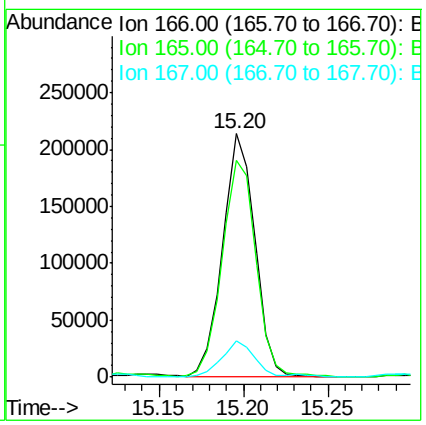


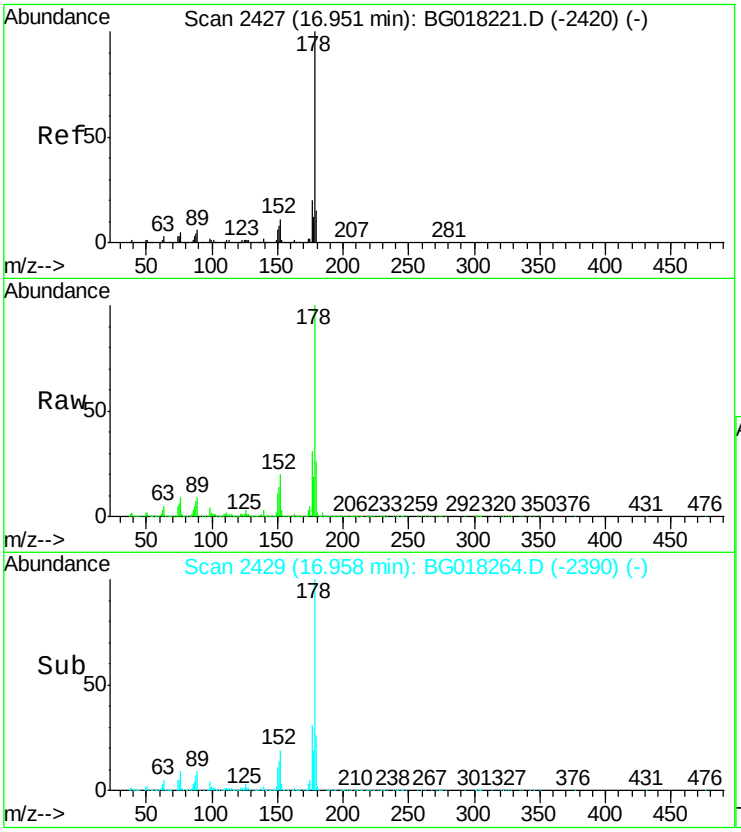




#59
Fluorene
Concen: 32.24 ng/ul
RT: 15.20 min Scan# 2129
Delta R.T. 0.00 min
Lab File: BG018264.D
Acq: 4 Aug 2015 21:50

Tgt Ion:166 Resp: 283047

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 89.0 | 75.1 | 112.7 |
| 167 | 14.7 | 11.8 | 17.6 |

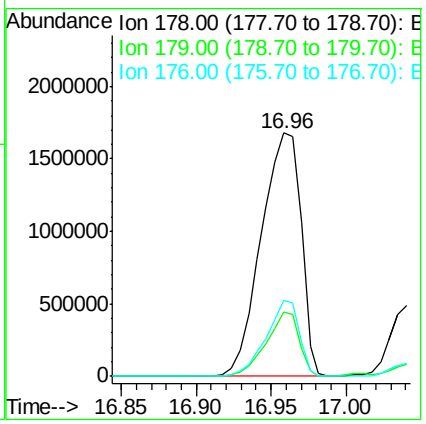





#70
Phenanthrene
Concen: 324.46 ng/ul m
RT: 16.96 min Scan# 2429
Delta R.T. 0.03 min
Lab File: BG018264.D
Acq: 4 Aug 2015 21:50

Tgt Ion:178 Resp: 3094842

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 179 | 26.3 | 12.8 | 19.2# |
| 176 | 31.4 | 16.0 | 24.0# |




**Instrument :**
BNA_G
**ClientSampleId :**
C01J2

**Manual Integrations APPROVED**
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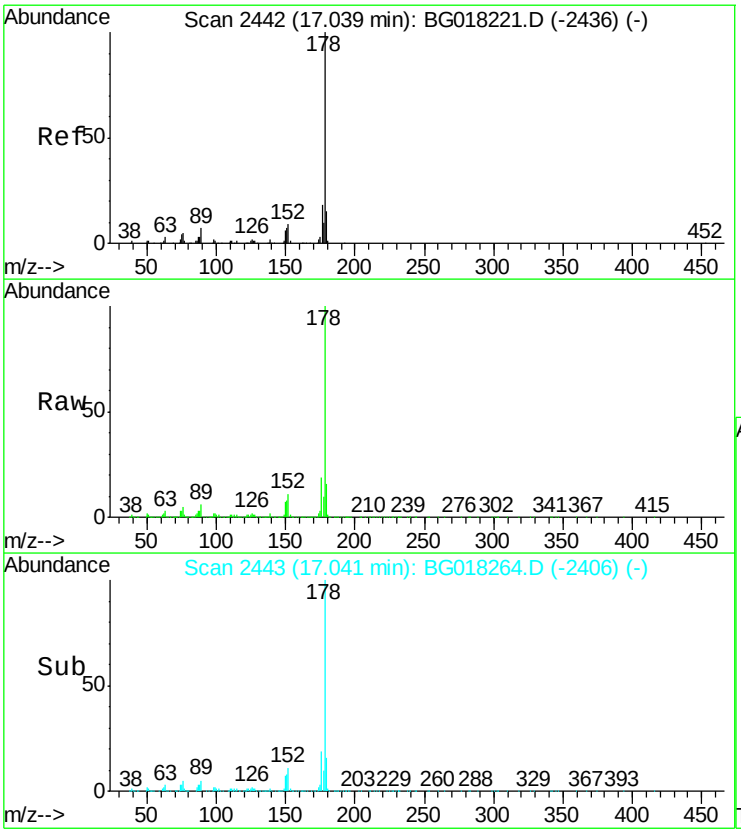
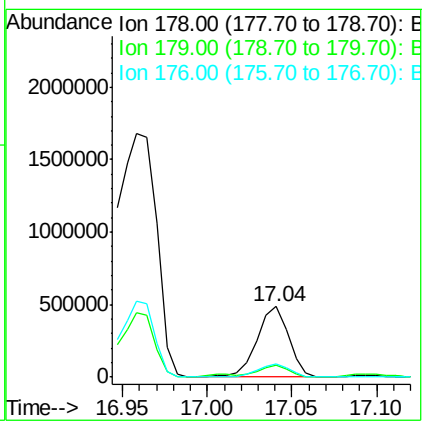
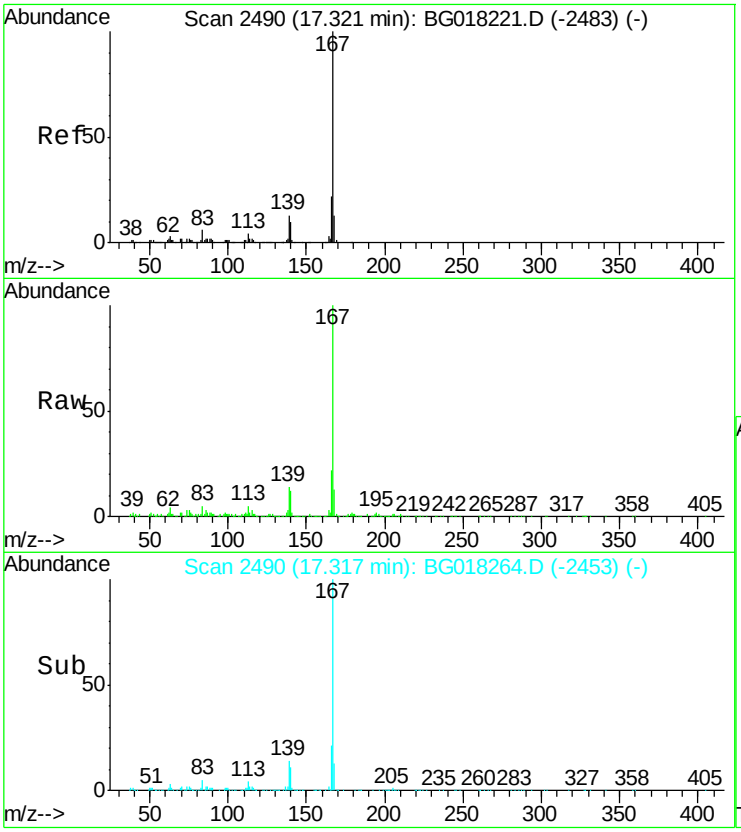



#72
Anthracene
Concen: 67.05 ng/ul
RT: 17.04 min Scan# 2443
Delta R.T. 0.02 min
Lab File: BG018264.D
Acq: 4 Aug 2015 21:50

Tgt Ion:178 Resp: 636264

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 179 | 16.2 | 12.2 | 18.2 |
| 176 | 18.8 | 14.8 | 22.2 |

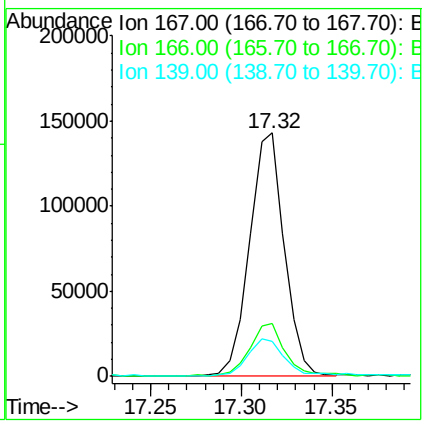





#75
Carbazole
Concen: 24.06 ng/ul
RT: 17.32 min Scan# 2490
Delta R.T. 0.02 min
Lab File: BG018264.D
Acq: 4 Aug 2015 21:50

Tgt Ion:167 Resp: 189725

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 21.8 | 17.5 | 26.3 |
| 139 | 14.1 | 10.1 | 15.1 |




**Instrument :**
BNA_G
**ClientSampleId :**
C01J2

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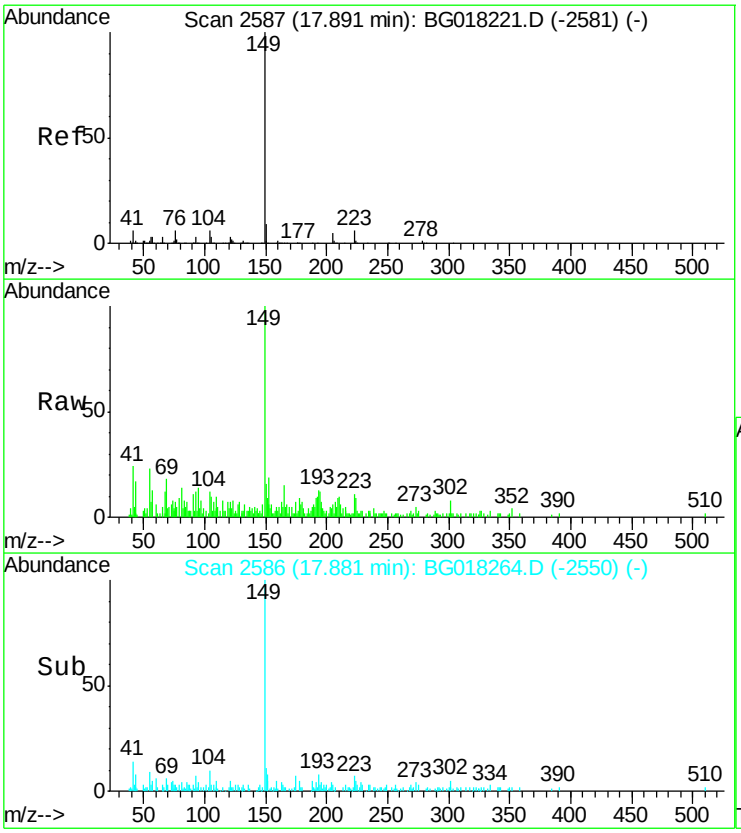
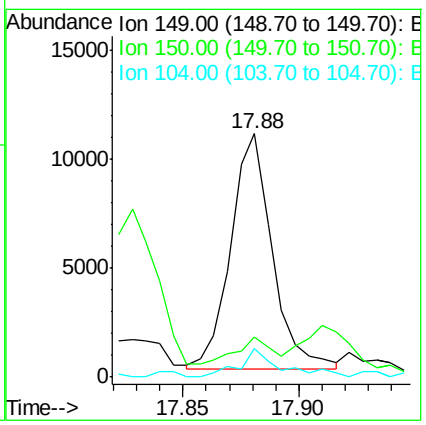
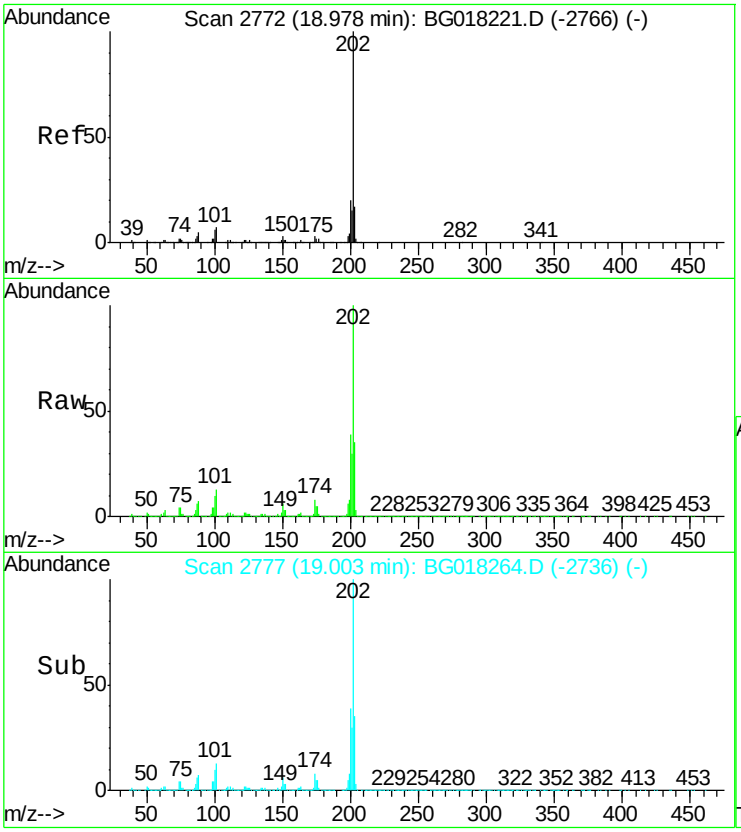



#76
Di-n-butylphthalate
Concen: 1.28 ng/ul
RT: 17.88 min Scan# 2586
Delta R.T. 0.01 min
Lab File: BG018264.D
Acq: 4 Aug 2015 21:50

Tgt Ion:149 Resp: 13475

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 150 | 16.3 | 7.7 | 11.5# |
| 104 | 11.5 | 3.6 | 5.4# |

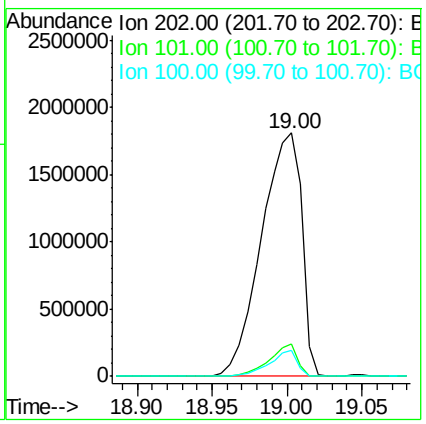





#77
Fluoranthene
Concen: 324.84 ng/ul m
RT: 19.00 min Scan# 2777
Delta R.T. 0.04 min
Lab File: BG018264.D
Acq: 4 Aug 2015 21:50

Tgt Ion:202 Resp: 3403032

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 13.1 | 7.5 | 11.3# |
| 100 | 10.4 | 5.5 | 8.3# |




**Instrument :**
BNA_G
**ClientSampleId :**
C01J2

**Manual Integrations APPROVED**
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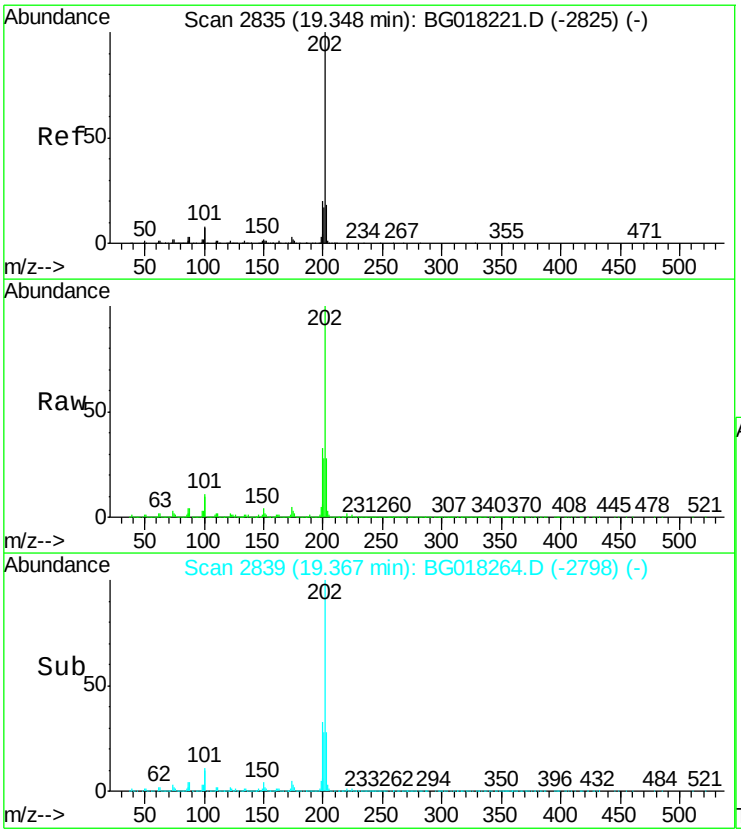
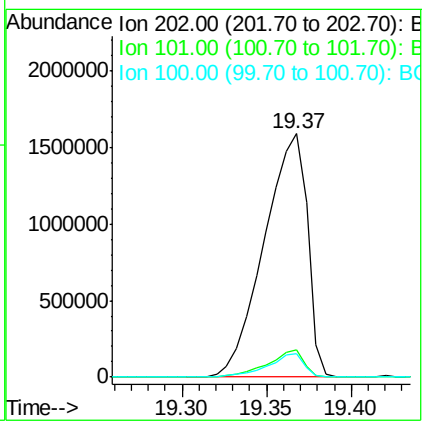
8/7/2015 4:40:43 PM

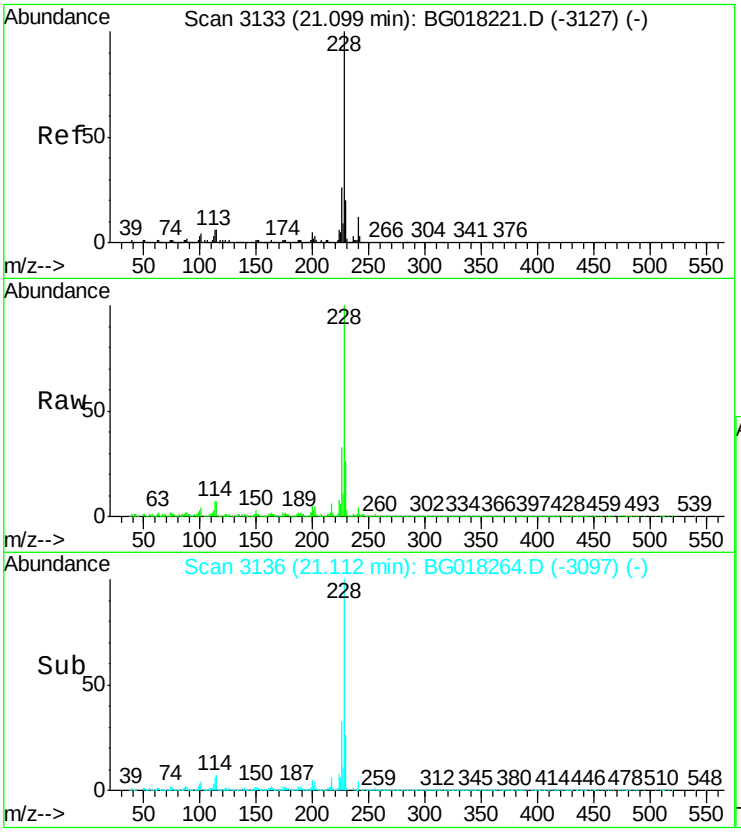



#80
Pyrene
Concen: 271.02 ng/ul
RT: 19.37 min Scan# 2839
Delta R.T. 0.04 min
Lab File: BG018264.D
Acq: 4 Aug 2015 21:50

Tgt Ion:202 Resp: 2805656

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 11.0 | 8.1 | 12.1 |
| 100 | 9.6 | 7.4 | 11.0 |

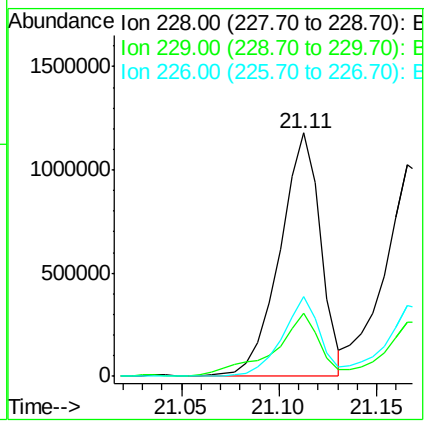





#83
Benzo(a)anthracene
Concen: 183.32 ng/ul
RT: 21.11 min Scan# 3136
Delta R.T. 0.03 min
Lab File: BG018264.D
Acq: 4 Aug 2015 21:50

Tgt Ion:228 Resp: 1684932

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 229 | 26.1 | 16.5 | 24.7# |
| 226 | 32.7 | 21.5 | 32.3# |




**Instrument :**
BNA_G
**ClientSampleId :**
C01J2

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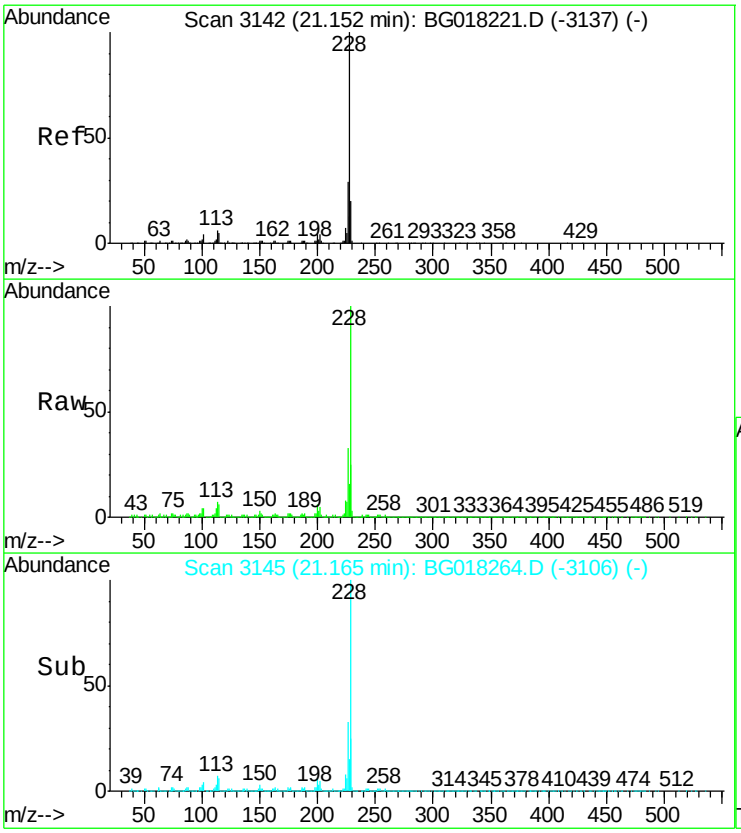
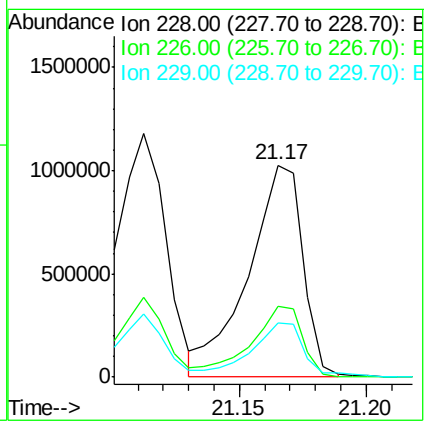
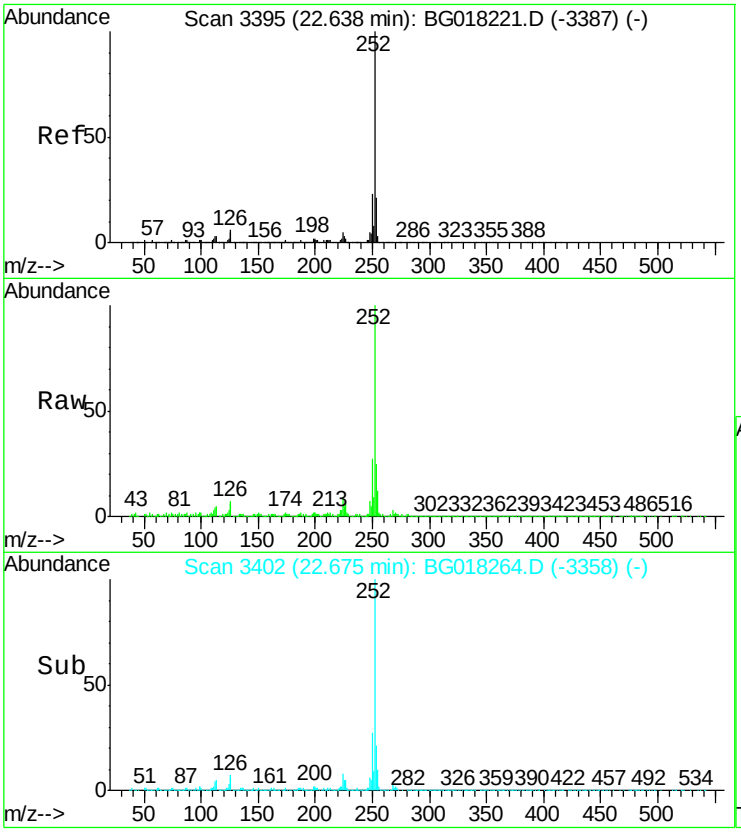



#85
Chrysene
Concen: 182.98 ng/ul
RT: 21.17 min Scan# 3145
Delta R.T. 0.03 min
Lab File: BG018264.D
Acq: 4 Aug 2015 21:50

Tgt Ion:228 Resp: 1540483

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 33.4 | 22.7 | 34.1 |
| 229 | 25.5 | 16.2 | 24.2# |






#88
Benzo(b)fluoranthene
Concen: 237.55 ng/ul m
RT: 22.68 min Scan# 3402
Delta R.T. 0.06 min
Lab File: BG018264.D
Acq: 4 Aug 2015 21:50

Tgt Ion:252 Resp: 2115576

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 25.4 | 18.5 | 27.7 |
| 125 | 6.0 | 7.4 | 11.0# |

**Instrument :**
BNA_G
**ClientSampleId :**
C01J2

**Manual Integrations APPROVED**
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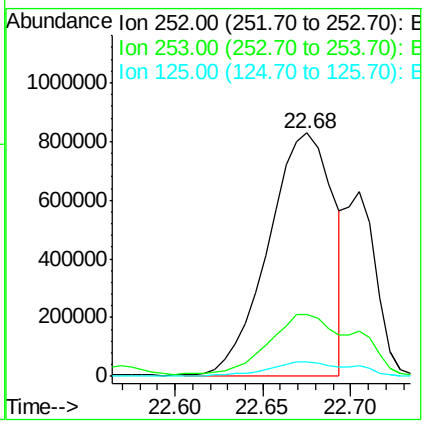
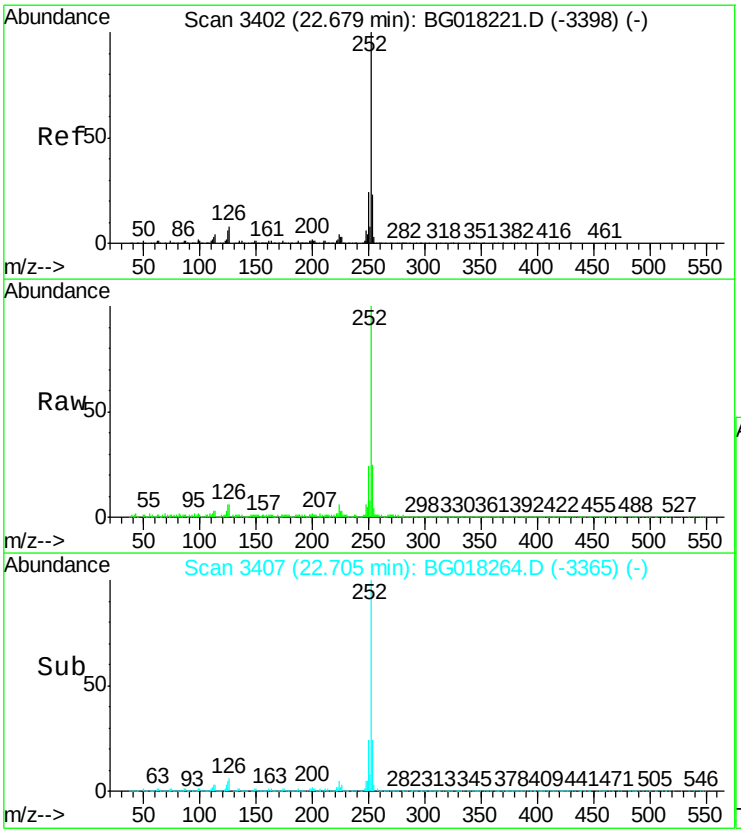
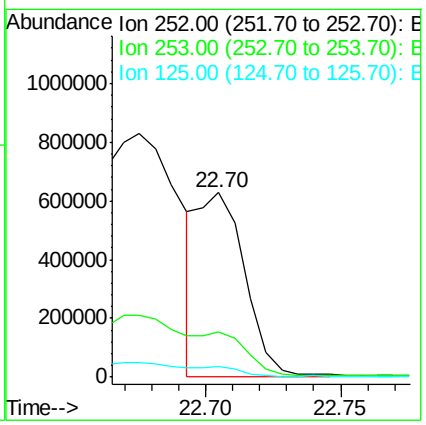


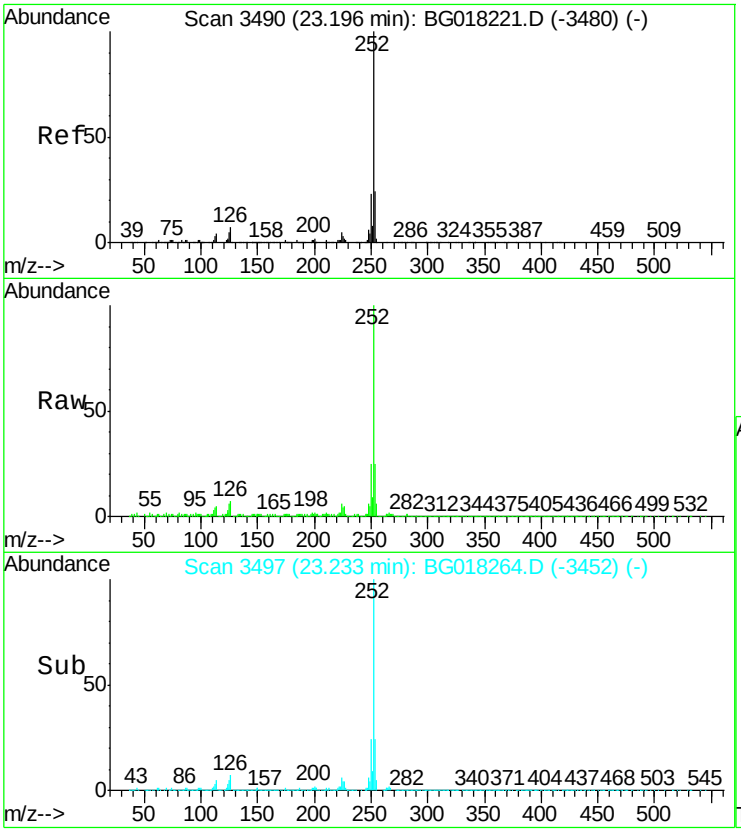




#89
Benzo(k)fluoranthene
Concen: 92.03 ng/ul m
RT: 22.70 min Scan# 3407
Delta R.T. 0.05 min
Lab File: BG018264.D
Acq: 4 Aug 2015 21:50

Tgt Ion:252 Resp: 753213

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 24.8 | 18.2 | 27.2 |
| 125 | 5.5 | 7.5 | 11.3# |

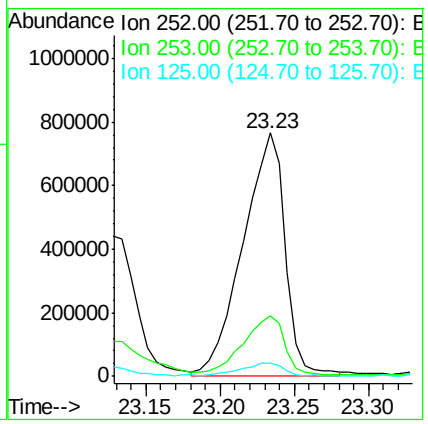





#91
Benzo(a)pyrene
Concen: 190.07 ng/ul m
RT: 23.23 min Scan# 3497
Delta R.T. 0.06 min
Lab File: BG018264.D
Acq: 4 Aug 2015 21:50

Tgt Ion:252 Resp: 1514343

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 25.0 | 17.4 | 26.2 |
| 125 | 5.6 | 7.3 | 10.9# |




**Instrument :**
BNA_G
**ClientSampleId :**
C01J2

**Manual Integrations APPROVED**
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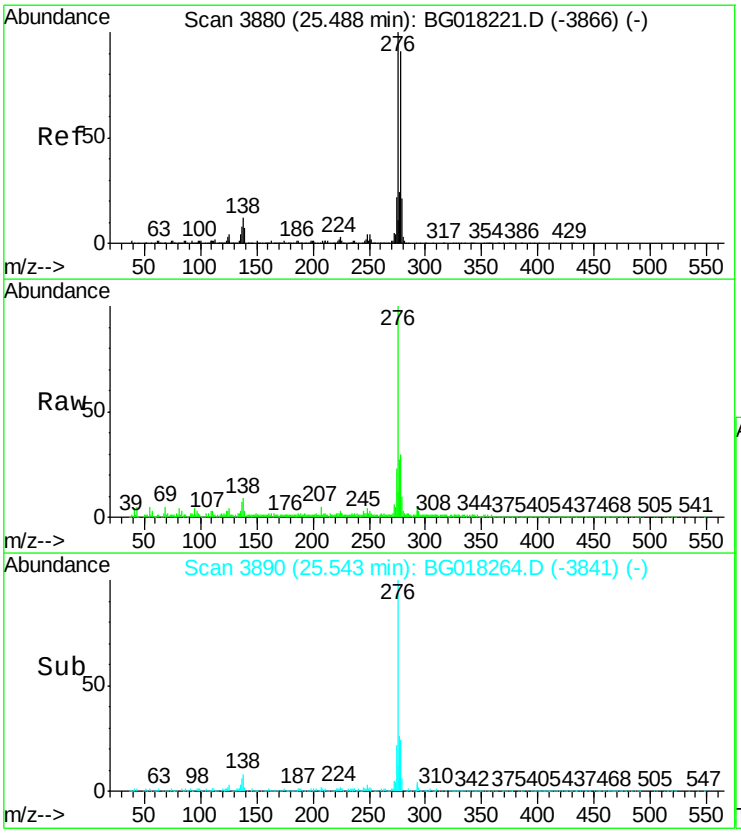
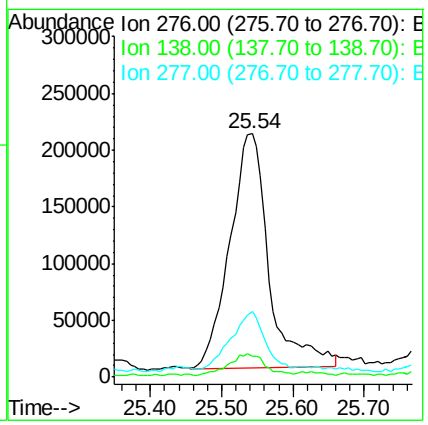
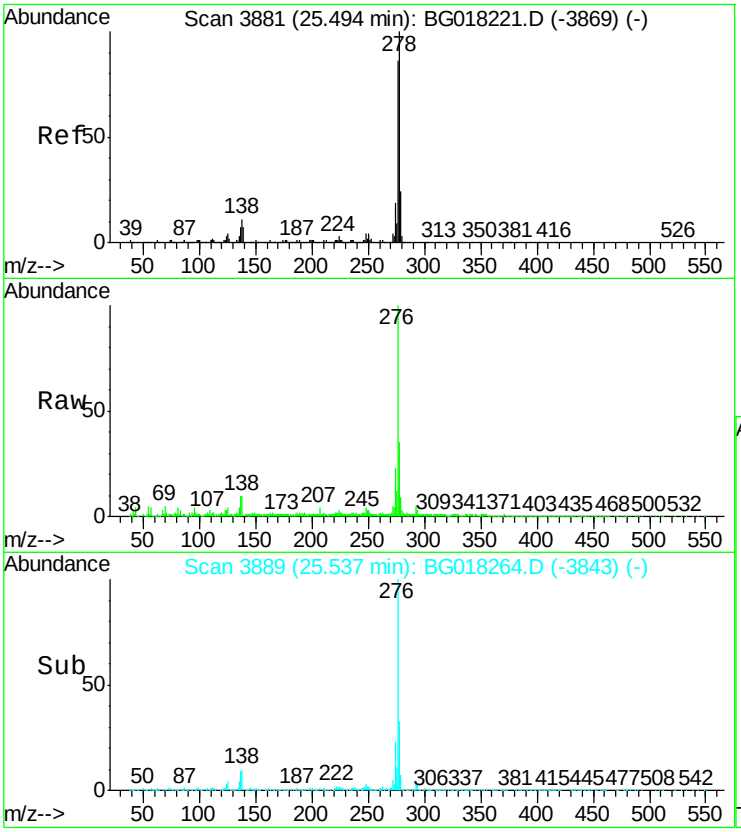



#92
Indeno(1,2,3-cd)pyrene
Concen: 85.51 ng/ul m
RT: 25.54 min Scan# 3890
Delta R.T. 0.09 min
Lab File: BG018264.D
Acq: 4 Aug 2015 21:50

Tgt Ion:276 Resp: 788137

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 8.8 | 17.2 | 25.8# |
| 277 | 26.9 | 19.5 | 29.3 |

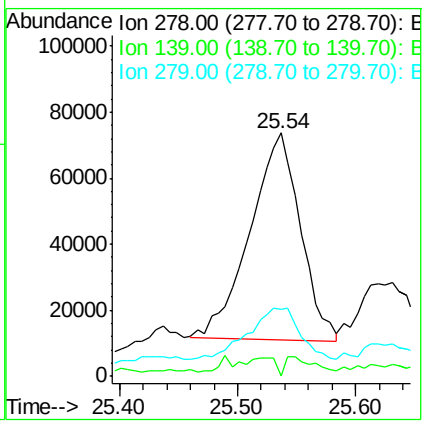





#93
Dibenzo(a,h)anthracene
Concen: 23.35 ng/ul m
RT: 25.54 min Scan# 3889
Delta R.T. 0.07 min
Lab File: BG018264.D
Acq: 4 Aug 2015 21:50

Tgt Ion:278 Resp: 184284

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 0.0 | 12.2 | 18.2# |
| 279 | 27.4 | 20.0 | 30.0 |




**Instrument :**
BNA_G
**ClientSampleId :**
C01J2

**Manual Integrations APPROVED**
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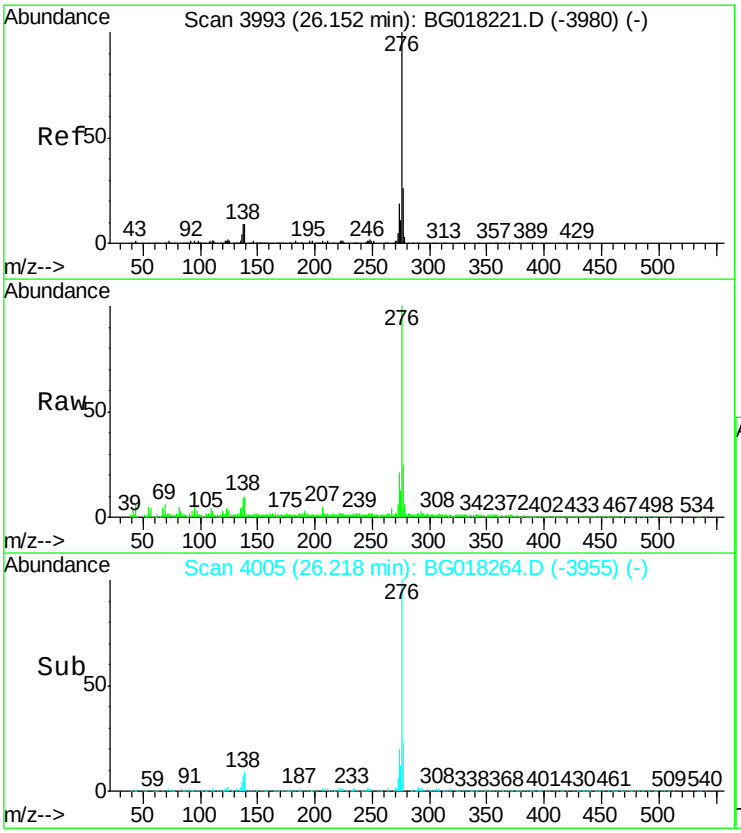


#94
Benzo(g,h,i)perylene
Concen: 78.95 ng/ul m
RT: 26.22 min Scan# 4005
Delta R.T. 0.09 min
Lab File: BG018264.D
Acq: 4 Aug 2015 21:50

Tgt Ion:276 Resp: 594326

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 9.7 | 15.1 | 22.7# |
| 277 | 25.3 | 19.8 | 29.6 |