Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA E\DATA\BE112415\
Data File : BE091317.D
Acq On : 24 Nov 2015 10:05
Operator : UM/NP
Sample : G4322-09DL 5X
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
BNA_E
**ClientSampleId :**
A4HS0DL

**Manual Integrations APPROVED**
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11/24/2015 1:08:01 PM

Quant Time: Nov 24 11:38:24 2015
Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM02.2-EPA-SIM-BE102715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 24 02:51:08 2015
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 6.89 | 152 | 2092 | 0.40 | ng/ul | -0.01 |
| 4) Naphthalene-d8 | 9.56 | 136 | 10318 | 0.40 | ng/ul | 0.00 |
| 8) Acenaphthene-d10 | 13.36 | 164 | 5131 | 0.40 | ng/ul | 0.00 |
| 12) Phenanthrene-d10 | 16.08 | 188 | 14476 | 0.40 | ng/ul | -0.01 |
| 18) Chrysene-d12 | 20.22 | 240 | 18243 | 0.40 | ng/ul | 0.00 |
| 22) Perylene-d12 | 22.10 | 264 | 17367 | 0.40 | ng/ul | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 2) 1,4-Dioxane-d8 | 2.99 | 96 | 1615 | 1.07 | ng/uL | 0.03 |
| 6) 2-Methylnaphthalene-d10 | 11.08 | 152 | 294 | 0.02 | ng/ul | 0.02 |
| 16) Fluoranthene-d10 | 18.06 | 212 | 920 | 0.02 | ng/ul | 0.00 |
| **Target Compounds** | | | | | | Qvalue |
| 5) Naphthalene | 9.61 | 128 | 2122 | 0.08 | ng/ul# | 87 |
| 7) 2-Methylnaphthalene | 11.16 | 142 | 612 | 0.04 | ng/ul | 98 |
| 9) Acenaphthylene | 13.11 | 152 | 1211 | 0.05 | ng/ul# | 85 |
| 10) Acenaphthene | 13.42 | 153 | 2140 | 0.12 | ng/ul# | 84 |
| 11) Fluorene | 14.41 | 166 | 3496 | 0.16 | ng/ul# | 93 |
| 14) Phenanthrene | 16.11 | 178 | 235423 | 1.41 | ng/ul | 98 |
| 15) Anthracene | 16.20 | 178 | 60777 | 0.40 | ng/ul | 99 |
| 17) Fluoranthene | 18.09 | 202 | 298711 | 1.53 | ng/ul | 90 |
| 19) Pyrene | 18.47 | 202 | 284518 | 1.37 | ng/ul# | 79 |
| 20) Benzo(a)anthracene | 20.20 | 228 | 31020m | 0.66 | ng/ul | |
| 21) Chrysene | 20.26 | 228 | 31945 | 0.59 | ng/ul | 97 |
| 23) Benzo(b)fluoranthene | 21.55 | 252 | 19747 | 0.36 | ng/ul | 95 |
| 24) Benzo(k)fluoranthene | 21.58 | 252 | 24673 | 0.44 | ng/ul | 95 |
| 25) Benzo(a)pyrene | 22.01 | 252 | 26395 | 0.53 | ng/ul | 92 |
| 26) Indeno(1,2,3-cd)pyrene | 23.70 | 276 | 49616 | 0.24 | ng/ul# | 92 |
| 27) Dibenzo(a,h)anthracene | 23.65 | 278 | 4206 | 0.08 | ng/ul# | 73 |
| 28) Benzo(g,h,i)perylene | 24.25 | 276 | 44520 | 0.20 | ng/ul | 97 |

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

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA E\DATA\BE112415\
Data File : BE091317.D
Acq On : 24 Nov 2015 10:05
Operator : UM/NP
Sample : G4322-09DL 5X
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 24 11:38:24 2015
Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM02.2-EPA-SIM-BE102715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 24 02:51:08 2015
Response via : Initial Calibration

**Instrument :**
BNA_E
**ClientSampleId :**
A4HS0DL

**Manual Integrations APPROVED**
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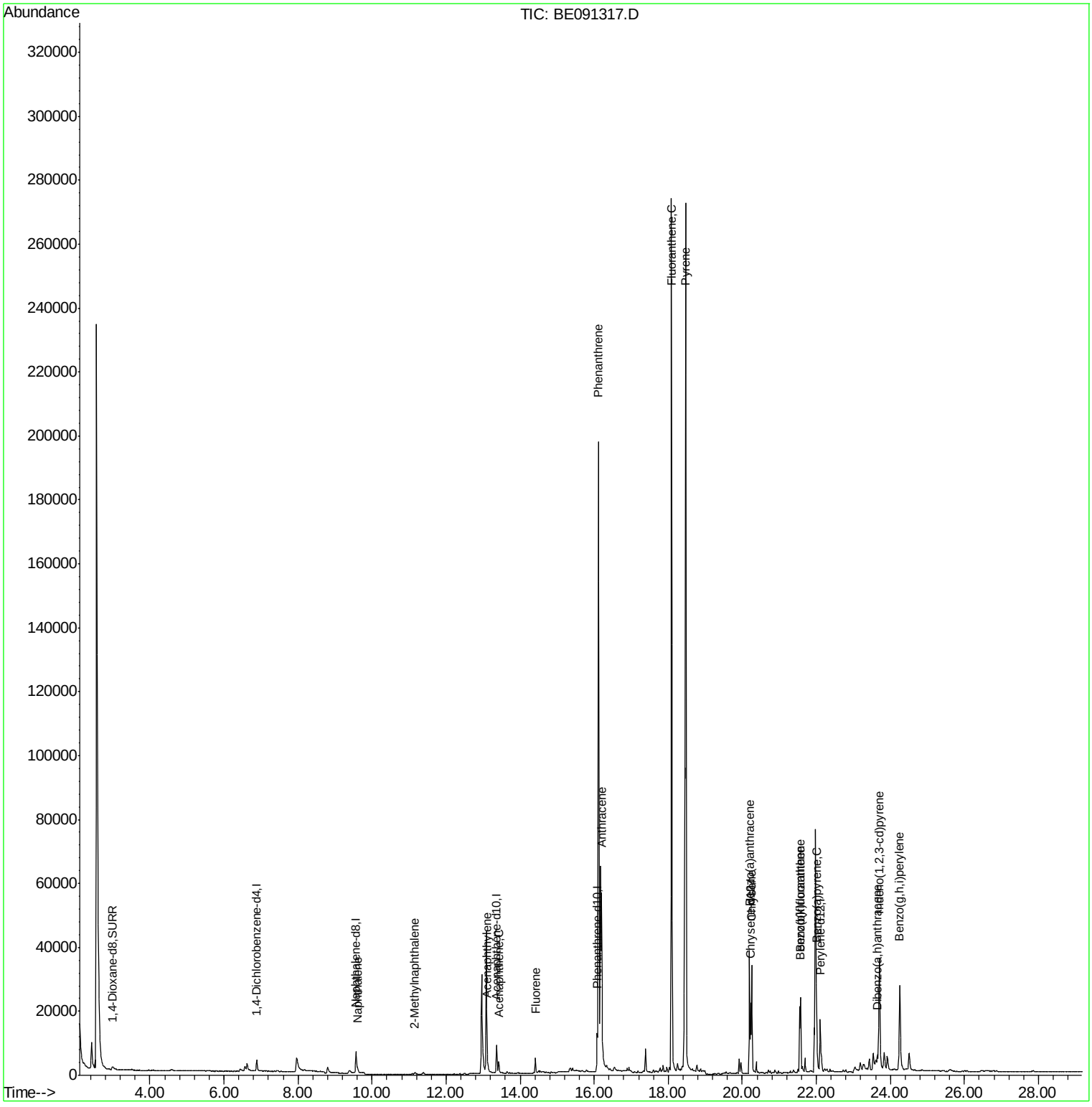

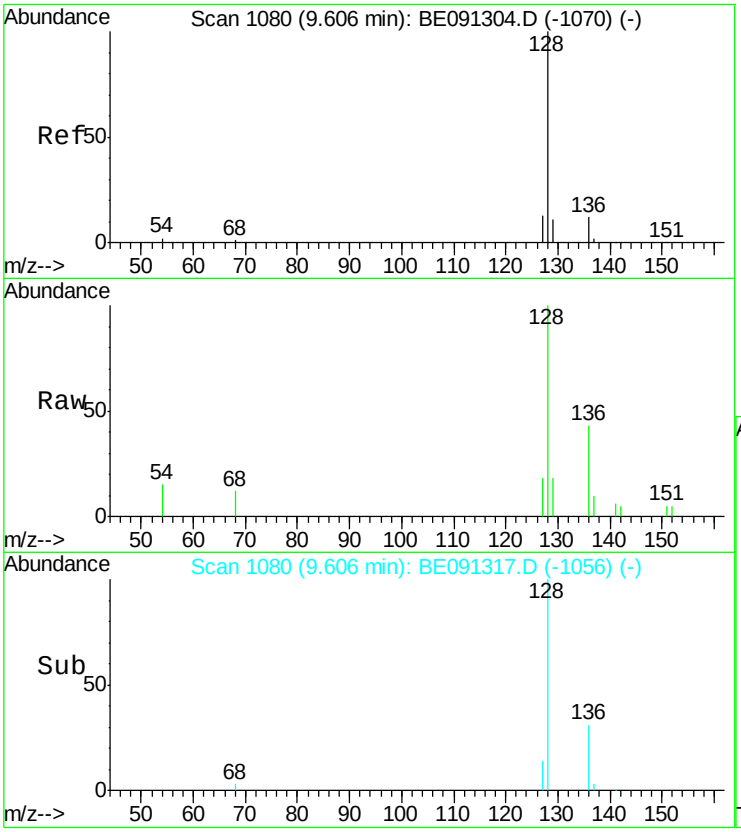


#5
Naphthalene
Concen: 0.08 ng/ul
RT: 9.61 min Scan# 1080
Delta R.T. 0.00 min
Lab File: BE091317.D
Acq: 24 Nov 2015 10:05

Tgt Ion:128 Resp: 2122

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 17.7 | 9.8 | 14.8# |
| 127 | 18.3 | 10.7 | 16.1# |

**Instrument :**
BNA_E
**ClientSampleId :**
A4HS0DL

**Manual Integrations APPROVED**
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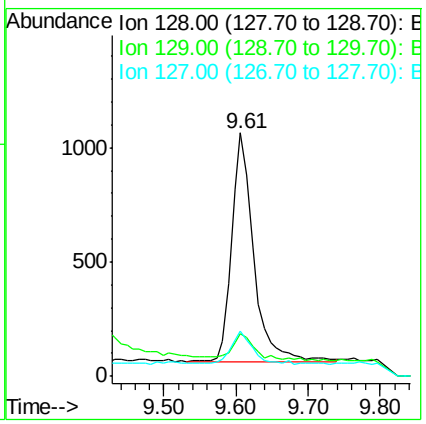
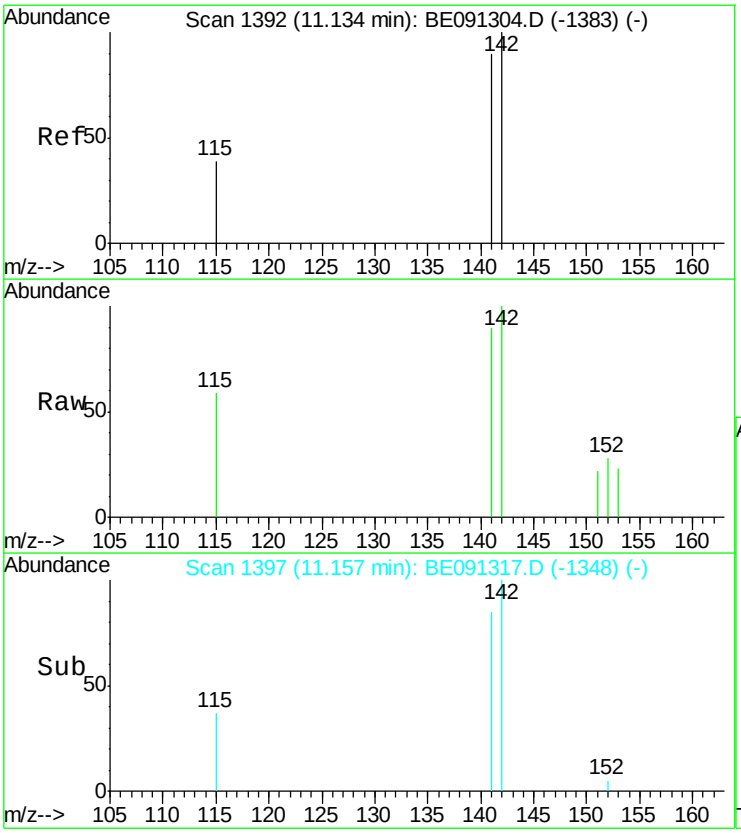
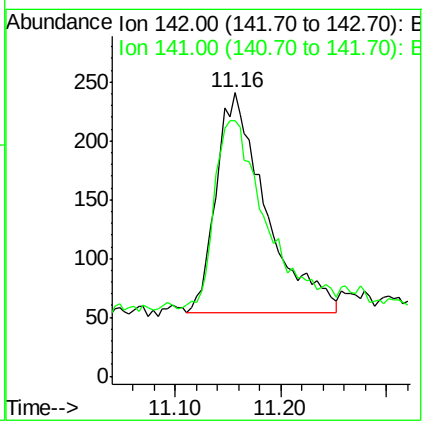


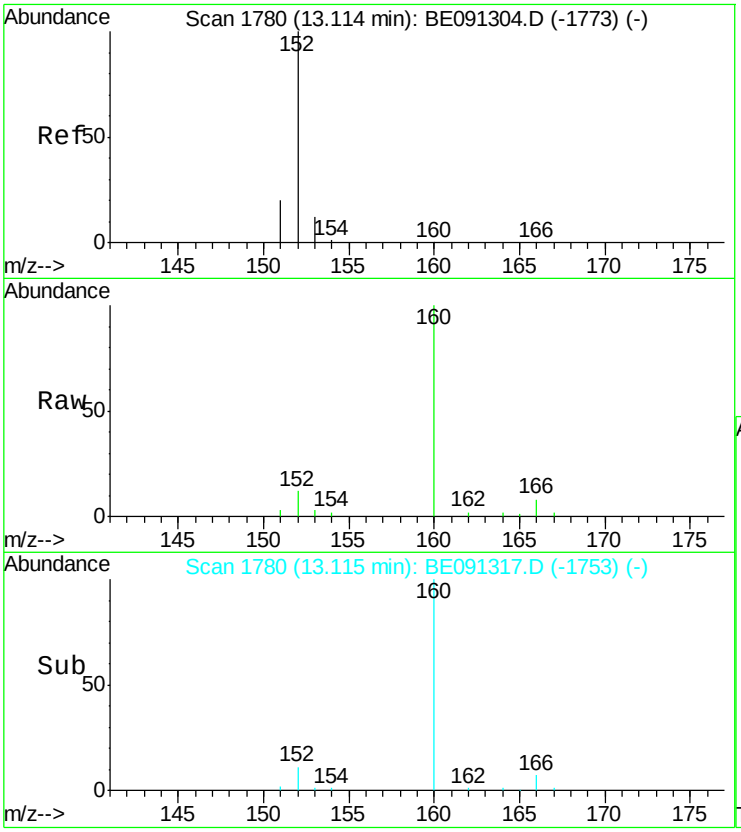




#7
2-Methylnaphthalene
Concen: 0.04 ng/ul
RT: 11.16 min Scan# 1397
Delta R.T. 0.02 min
Lab File: BE091317.D
Acq: 24 Nov 2015 10:05

Tgt Ion:142 Resp: 612

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 89.9 | 70.3 | 105.5 |

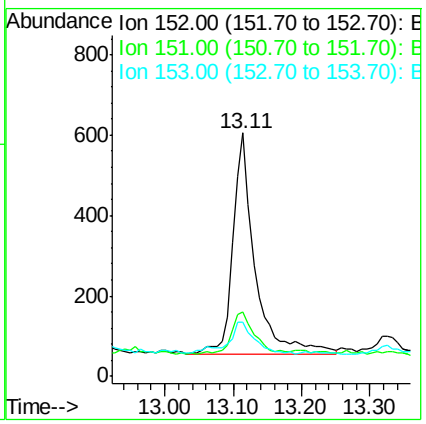





#9
Acenaphthylene
Concen: 0.05 ng/ul
RT: 13.11 min Scan# 1780
Delta R.T. 0.00 min
Lab File: BE091317.D
Acq: 24 Nov 2015 10:05

Tgt Ion:152 Resp: 1211

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 26.6 | 16.8 | 25.2# |
| 153 | 22.4 | 11.3 | 16.9# |




**Instrument :**
BNA_E
**ClientSampleId :**
A4HS0DL

**Manual Integrations APPROVED**
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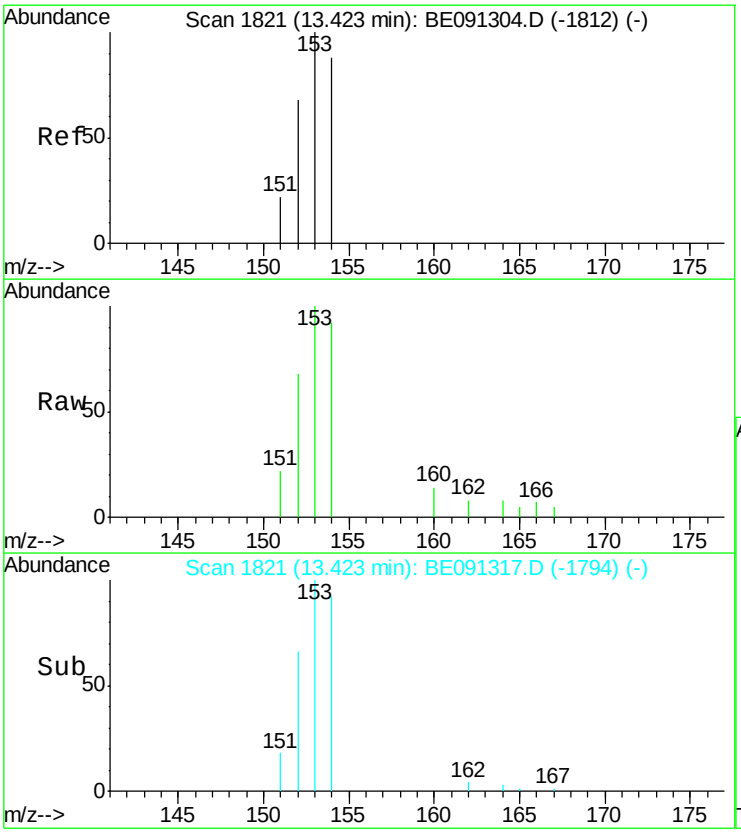
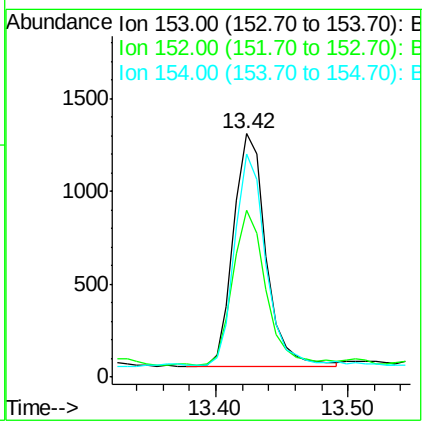
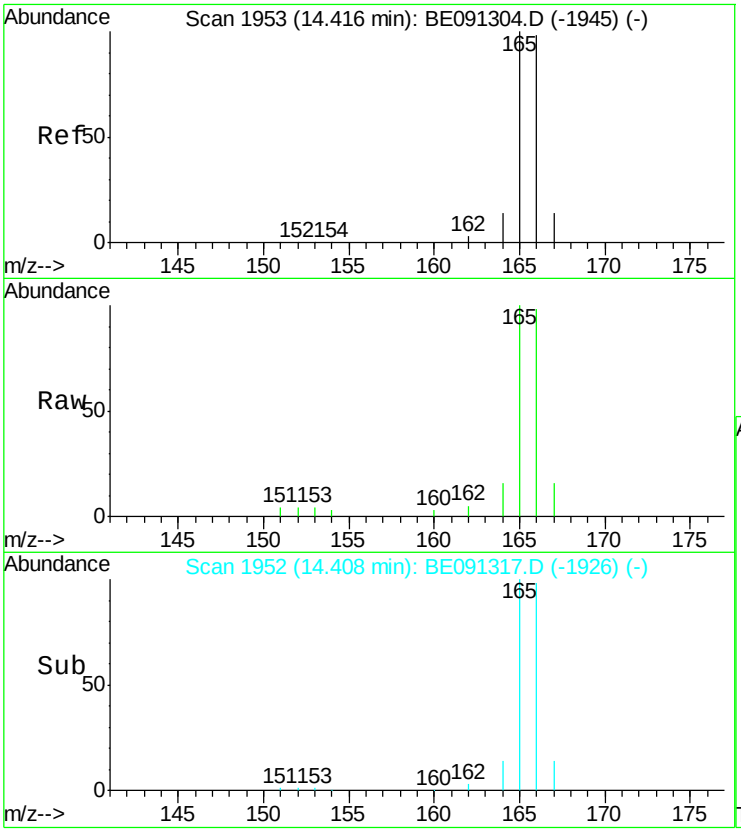



#10
Acenaphthene
Concen: 0.12 ng/ul
RT: 13.42 min Scan# 1821
Delta R.T. 0.00 min
Lab File: BE091317.D
Acq: 24 Nov 2015 10:05

Tgt Ion:153 Resp: 2140

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 153 | 100 | | |
| 152 | 68.3 | 42.3 | 63.5# |
| 154 | 91.8 | 64.7 | 97.1 |

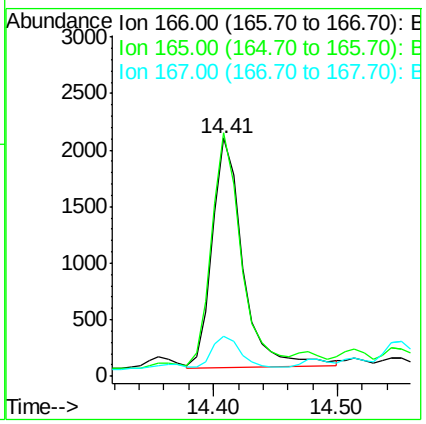





#11
Fluorene
Concen: 0.16 ng/ul
RT: 14.41 min Scan# 1952
Delta R.T. -0.01 min
Lab File: BE091317.D
Acq: 24 Nov 2015 10:05

Tgt Ion:166 Resp: 3496

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 102.1 | 87.6 | 131.4 |
| 167 | 16.8 | 11.1 | 16.7# |




**Instrument :**
BNA_E
**ClientSampleId :**
A4HS0DL

**Manual Integrations APPROVED**
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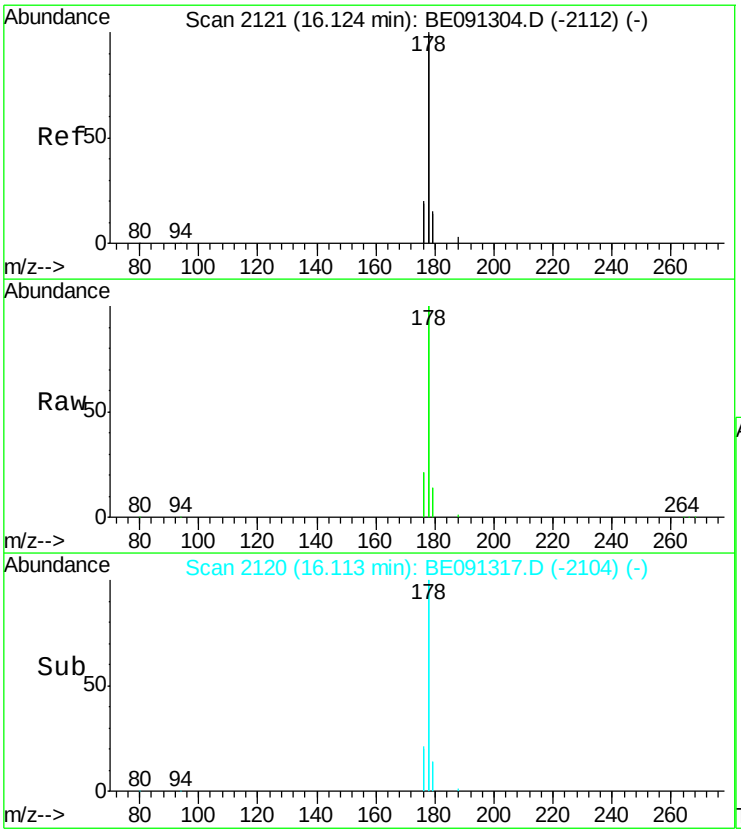
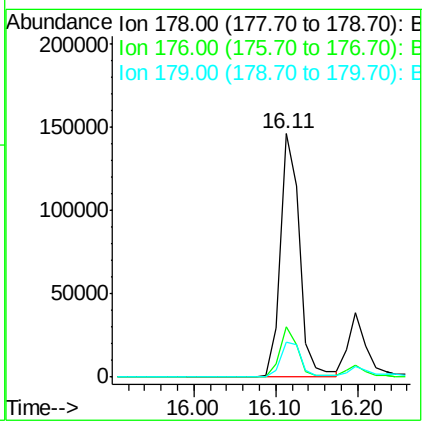
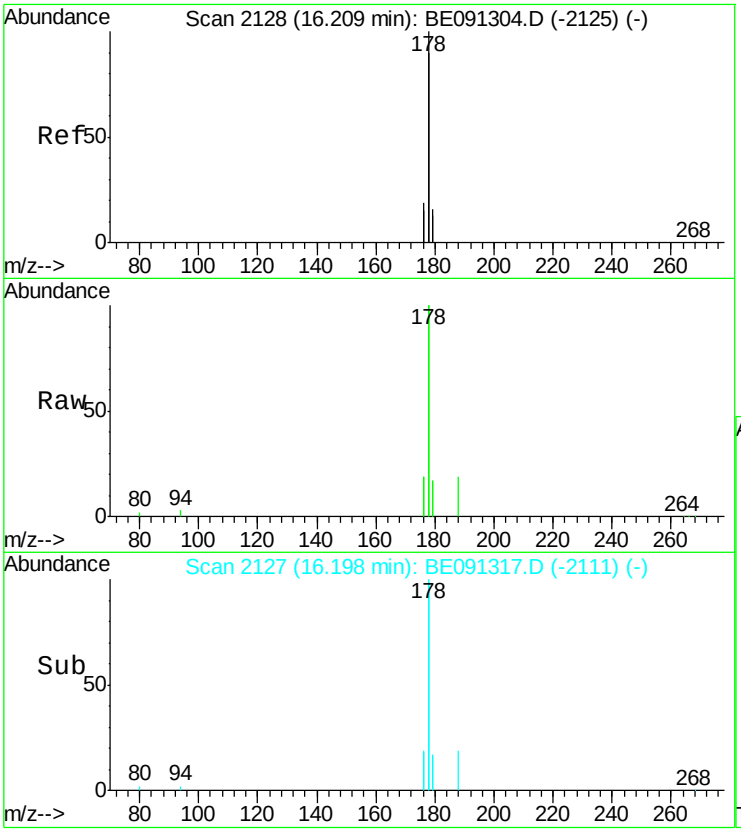



#14
Phenanthrene
Concen: 1.41 ng/ul
RT: 16.11 min Scan# 2120
Delta R.T. -0.01 min
Lab File: BE091317.D
Acq: 24 Nov 2015 10:05

Tgt Ion:178 Resp: 235423

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 20.6 | 16.2 | 24.4 |
| 179 | 14.3 | 12.8 | 19.2 |

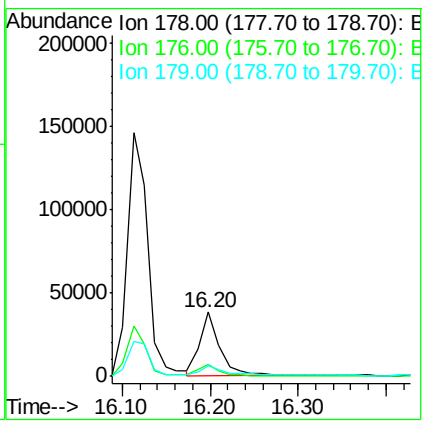





#15
Anthracene
Concen: 0.40 ng/ul
RT: 16.20 min Scan# 2127
Delta R.T. -0.01 min
Lab File: BE091317.D
Acq: 24 Nov 2015 10:05

Tgt Ion:178 Resp: 60777

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.3 | 15.8 | 23.8 |
| 179 | 17.4 | 13.3 | 19.9 |




**Instrument :**
BNA_E
**ClientSampleId :**
A4HS0DL

**Manual Integrations APPROVED**
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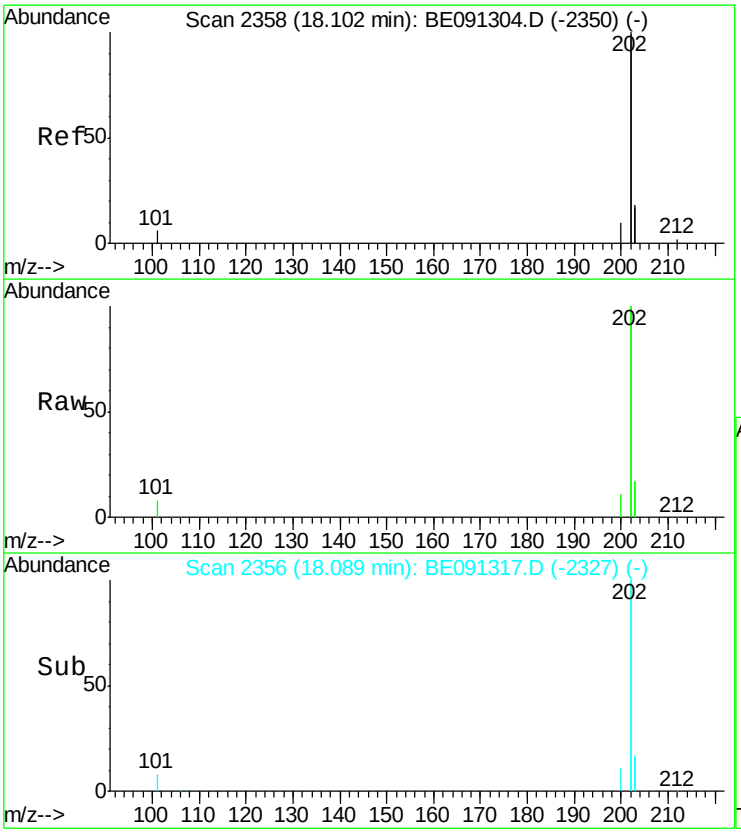
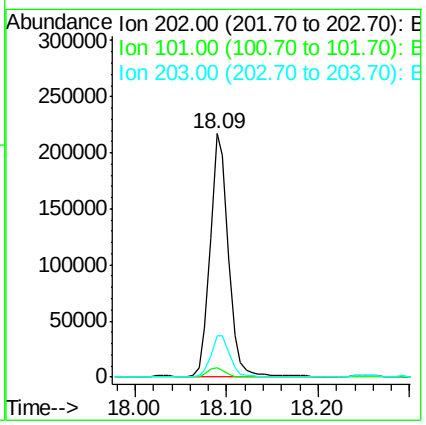
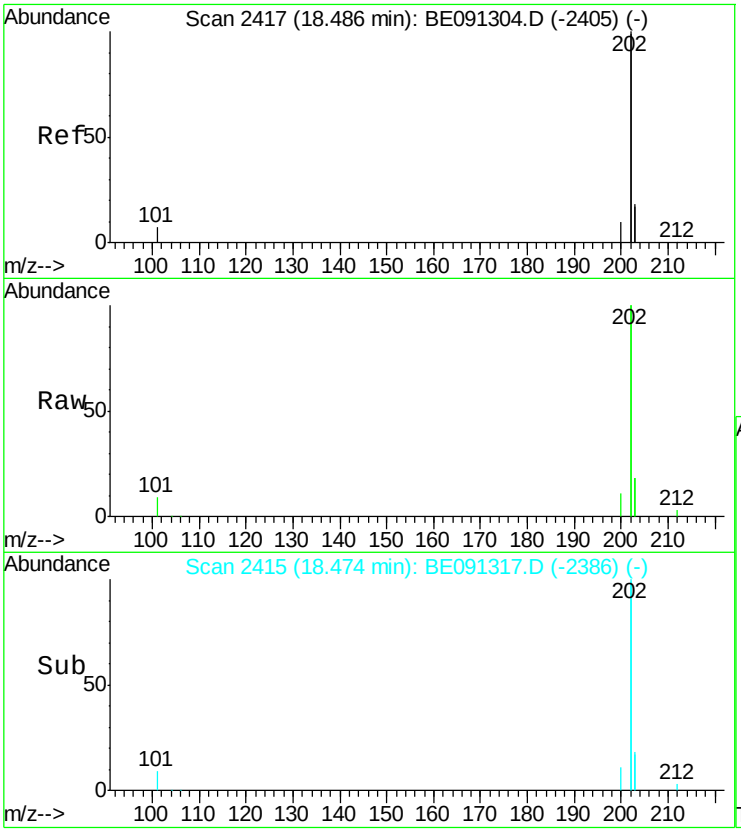



#17
Fluoranthene
Concen: 1.53 ng/ul
RT: 18.09 min Scan# 2356
Delta R.T. -0.01 min
Lab File: BE091317.D
Acq: 24 Nov 2015 10:05

Tgt Ion:202 Resp: 298711

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 4.0 | 0.0 | 33.1 |
| 203 | 16.7 | 0.0 | 37.2 |






#19
Pyrene
Concen: 1.37 ng/ul
RT: 18.47 min Scan# 2415
Delta R.T. -0.01 min
Lab File: BE091317.D
Acq: 24 Nov 2015 10:05

Tgt Ion:202 Resp: 284518

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 5.4 | 18.0 | 27.0# |
| 203 | 17.6 | 13.8 | 20.6 |

**Instrument :**
BNA_E
**ClientSampleId :**
A4HS0DL

**Manual Integrations APPROVED**
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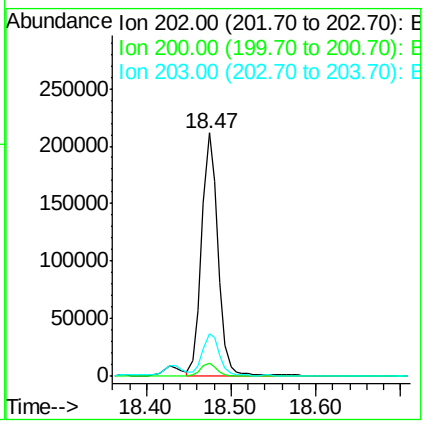
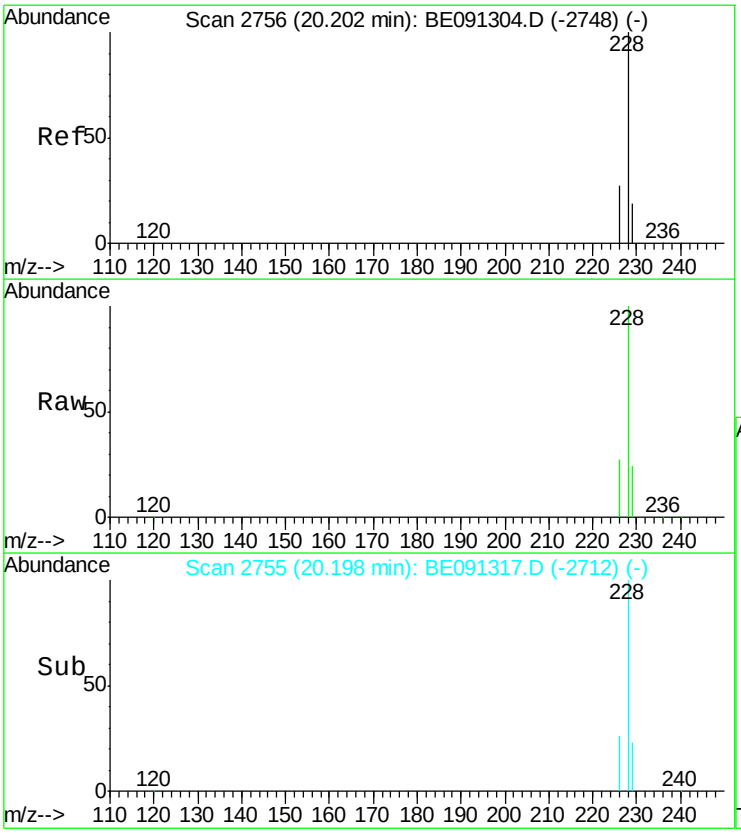
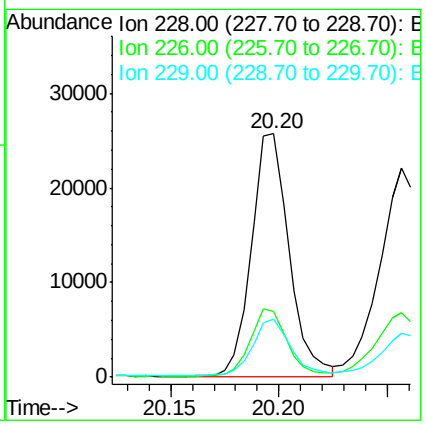


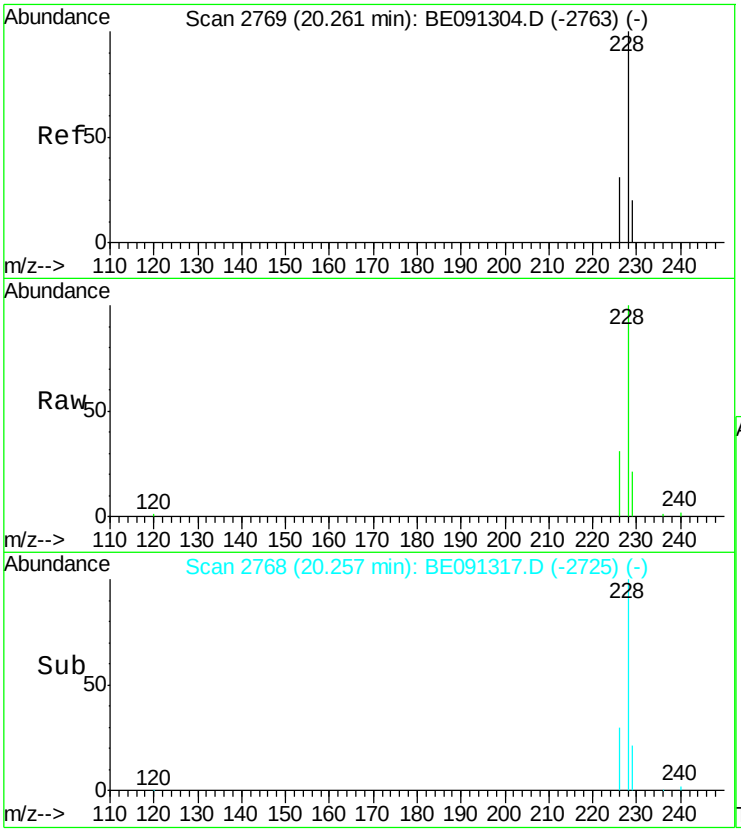




#20
Benzo(a)anthracene
Concen: 0.66 ng/ul m
RT: 20.20 min Scan# 2755
Delta R.T. -0.00 min
Lab File: BE091317.D
Acq: 24 Nov 2015 10:05

Tgt Ion:228 Resp: 31020

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 26.8 | 23.0 | 34.4 |
| 229 | 23.9 | 15.2 | 22.8# |

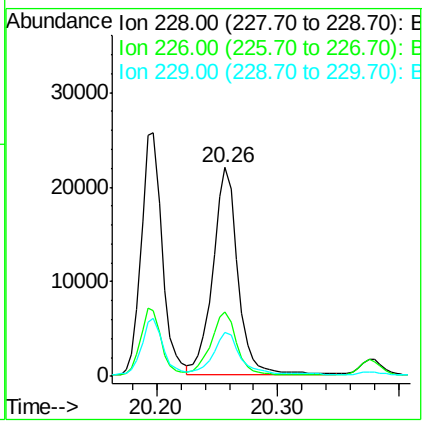





#21
Chrysene
Concen: 0.59 ng/ul
RT: 20.26 min Scan# 2768
Delta R.T. -0.00 min
Lab File: BE091317.D
Acq: 24 Nov 2015 10:05

Tgt Ion:228 Resp: 31945

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.7 | 25.7 | 38.5 |
| 229 | 21.1 | 15.2 | 22.8 |




**Instrument :**
BNA_E
**ClientSampleId :**
A4HS0DL

**Manual Integrations APPROVED**
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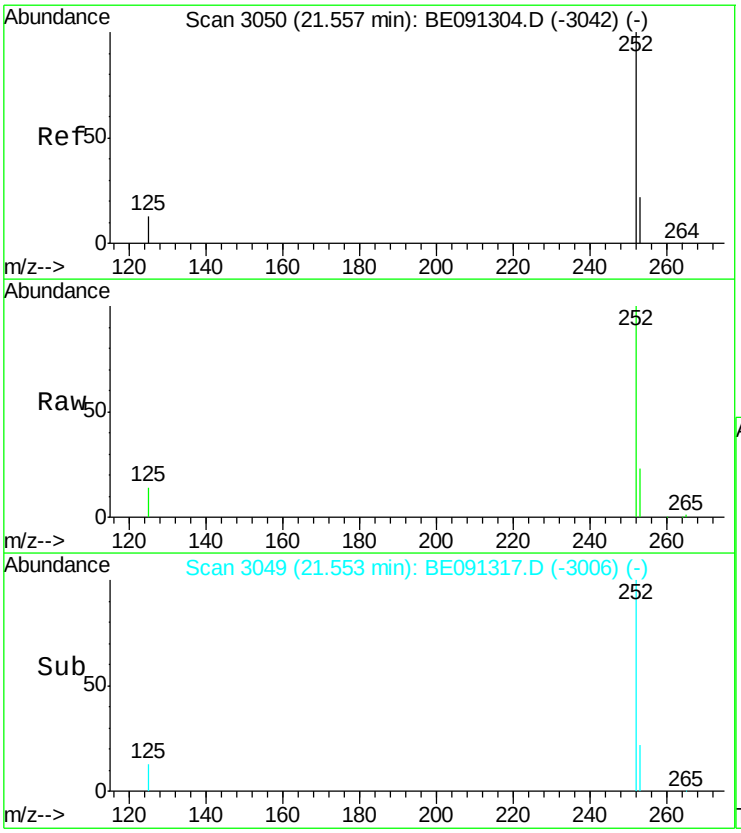
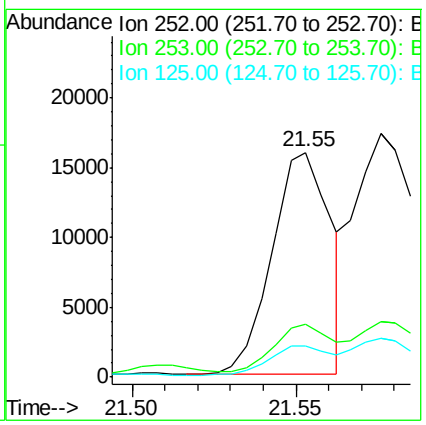
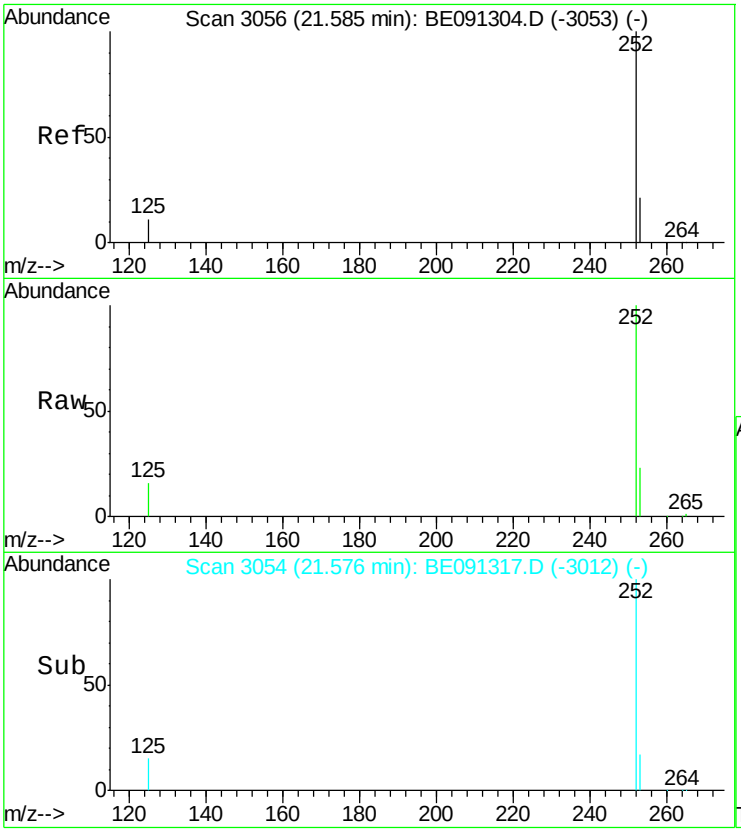



#23
Benzo(b)fluoranthene
Concen: 0.36 ng/ul
RT: 21.55 min Scan# 3049
Delta R.T. -0.00 min
Lab File: BE091317.D
Acq: 24 Nov 2015 10:05

Tgt Ion:252 Resp: 19747

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 23.3 | 0.0 | 48.0 |
| 125 | 14.0 | 0.0 | 36.6 |

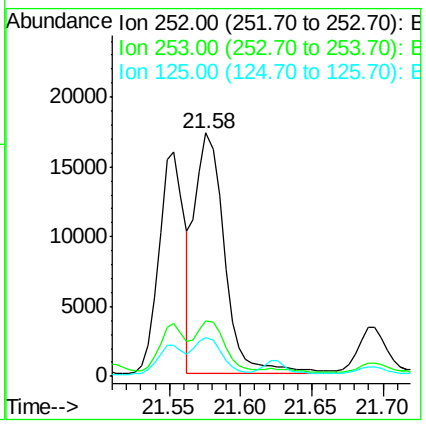





#24
Benzo(k)fluoranthene
Concen: 0.44 ng/ul
RT: 21.58 min Scan# 3054
Delta R.T. -0.01 min
Lab File: BE091317.D
Acq: 24 Nov 2015 10:05

Tgt Ion:252 Resp: 24673

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.7 | 20.8 | 31.2 |
| 125 | 15.9 | 12.2 | 18.4 |




**Instrument :**
BNA_E
**ClientSampleId :**
A4HS0DL

**Manual Integrations APPROVED**
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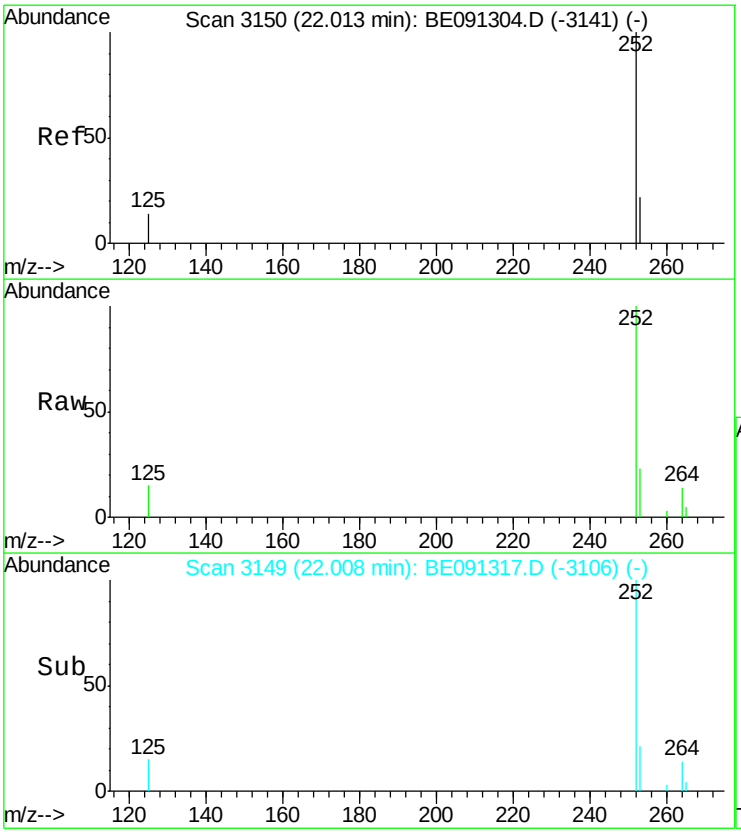
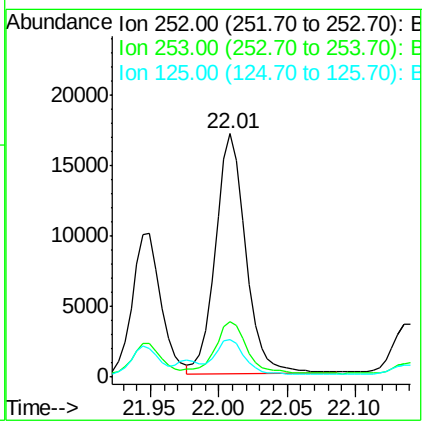
11/24/2015 1:08:01 PM

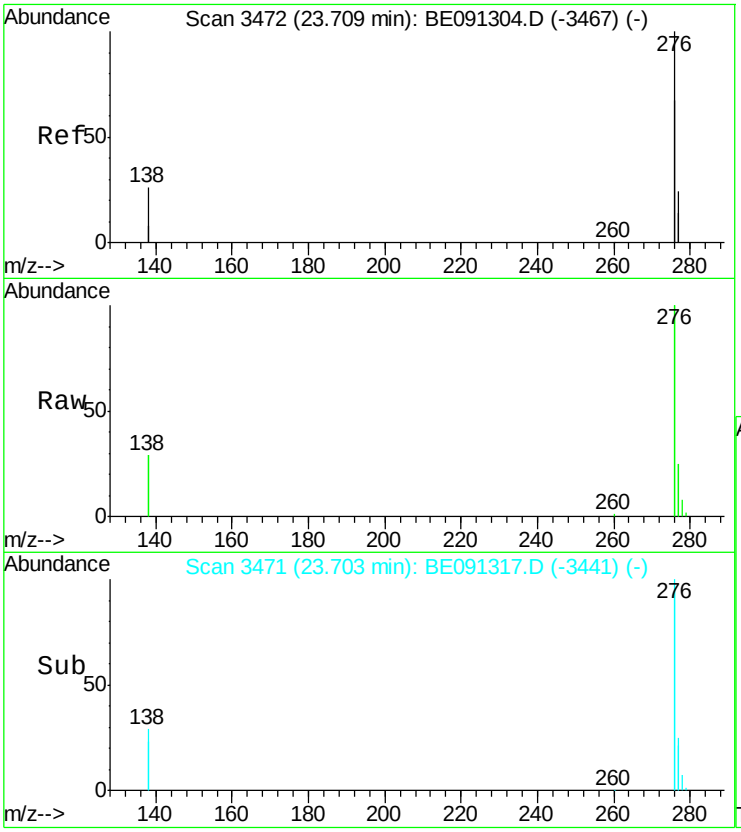



#25
Benzo(a)pyrene
Concen: 0.53 ng/ul
RT: 22.01 min Scan# 3149
Delta R.T. -0.00 min
Lab File: BE091317.D
Acq: 24 Nov 2015 10:05

Tgt Ion:252 Resp: 26395

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.7 | 21.8 | 32.8 |
| 125 | 15.4 | 14.5 | 21.7 |

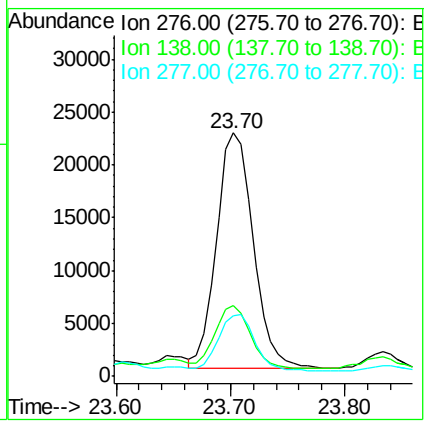





#26
Indeno(1,2,3-cd)pyrene
Concen: 0.24 ng/ul
RT: 23.70 min Scan# 3471
Delta R.T. -0.01 min
Lab File: BE091317.D
Acq: 24 Nov 2015 10:05

Tgt Ion:276 Resp: 49616

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 26.3 | 27.5 | 41.3# |
| 277 | 23.9 | 19.3 | 28.9 |




**Instrument :**
BNA_E
**ClientSampleId :**
A4HS0DL

**Manual Integrations APPROVED**
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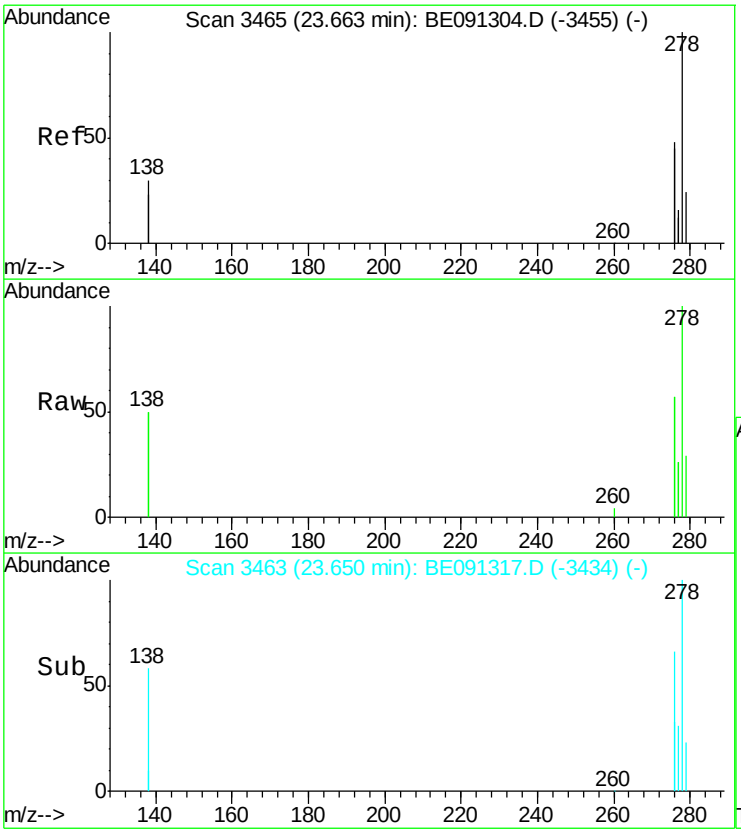
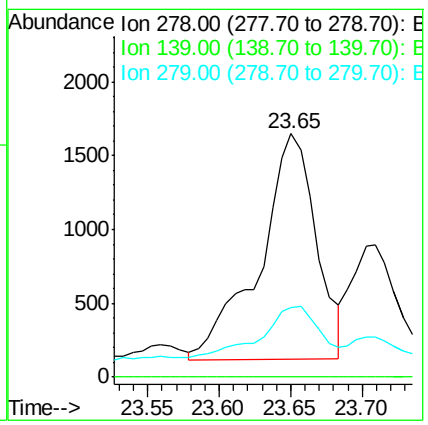
11/24/2015 1:08:01 PM

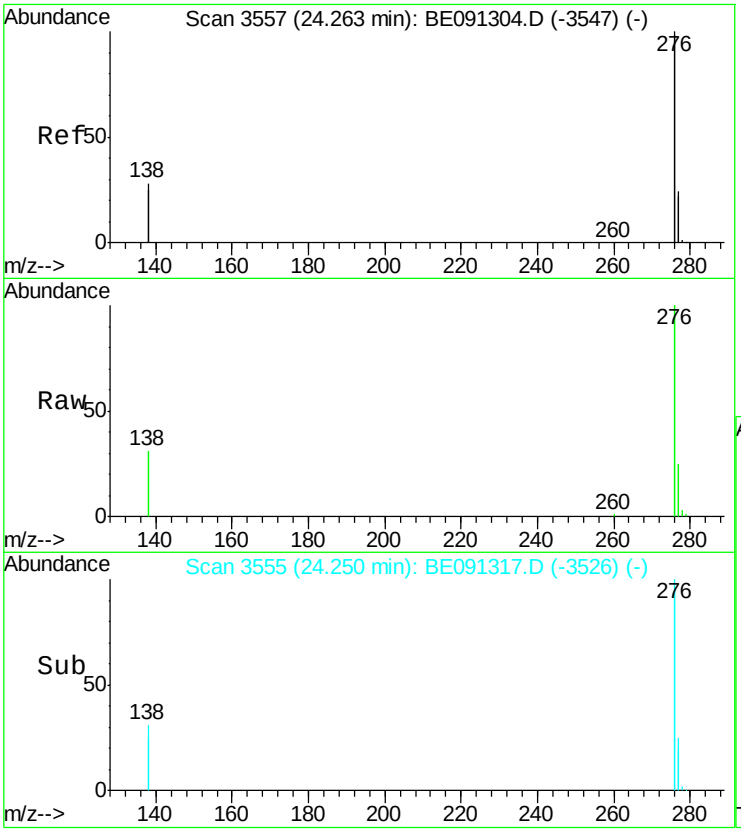



#27
Dibenzo(a,h)anthracene
Concen: 0.08 ng/ul
RT: 23.65 min Scan# 3463
Delta R.T. -0.01 min
Lab File: BE091317.D
Acq: 24 Nov 2015 10:05

Tgt Ion:278 Resp: 4206

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 0.0 | 21.7 | 32.5# |
| 279 | 28.6 | 21.9 | 32.9 |

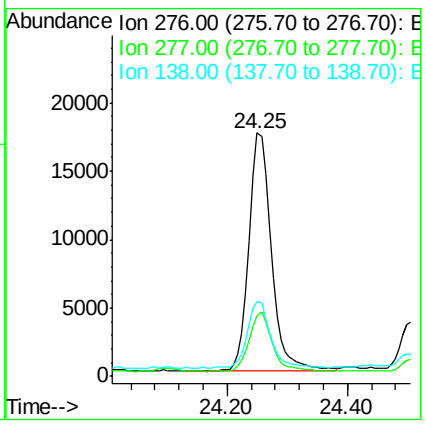





#28
Benzo(g,h,i)perylene
Concen: 0.20 ng/ul
RT: 24.25 min Scan# 3555
Delta R.T. -0.01 min
Lab File: BE091317.D
Acq: 24 Nov 2015 10:05

Tgt Ion:276 Resp: 44520

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 24.9 | 21.3 | 31.9 |
| 138 | 30.5 | 25.5 | 38.3 |




**Instrument :**
BNA_E
**ClientSampleId :**
A4HS0DL

**Manual Integrations APPROVED**
Mmdadoda
11/24/2015 1:08:01 PM