Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE060817\
Data File : BE093080.D
Acq On : 8 Jun 2017 14:41
Operator : SJ/MA
Sample : MDL-W-5
Misc : 0.07 PPM
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
BNA_E
**ClientSampleId :**
MDL-W-5

**Manual Integrations APPROVED**
mohammad
6/9/2017 1:36:17 PM

Quant Time: Jun 08 15:11:26 2017
Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SOM-EPA-SIM-BE060717.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 08 13:24:15 2017
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 7.75 | 152 | 4313 | 0.40 | ng/ul | 0.00 |
| 2) Naphthalene-d8 | 10.52 | 136 | 19027 | 0.40 | ng/ul | 0.00 |
| 6) Acenaphthene-d10 | 14.37 | 164 | 9709 | 0.40 | ng/ul | 0.00 |
| 10) Phenanthrene-d10 | 17.10 | 188 | 26815 | 0.40 | ng/ul | 0.00 |
| 16) Chrysene-d12 | 21.26 | 240 | 29333 | 0.40 | ng/ul | 0.00 |
| 20) Perylene-d12 | 23.66 | 264 | 26802 | 0.40 | ng/ul | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 4) 2-Methylnaphthalene-d10 | 12.11 | 152 | 9551 | 0.34 | ng/ul | 0.00 |
| 14) Fluoranthene-d10 | 19.13 | 212 | 24083 | 0.33 | ng/ul | 0.00 |
| **Target Compounds** | | | | | | Qvalue |
| 3) Naphthalene | 10.57 | 128 | 2402 | 0.051 | ng/ul# | 95 |
| 5) 2-Methylnaphthalene | 12.19 | 142 | 1497 | 0.046 | ng/ul | 100 |
| 7) Acenaphthylene | 14.08 | 152 | 1818 | 0.044 | ng/ul | 94 |
| 8) Acenaphthene | 14.43 | 153 | 1632 | 0.049 | ng/ul | 97 |
| 9) Fluorene | 15.42 | 166 | 1813 | 0.046 | ng/ul | 89 |
| 11) Pentachlorophenol | 16.75 | 266 | 152 | 0.038 | ng/ul | 96 |
| 12) Phenanthrene | 17.14 | 178 | 3729m | 0.051 | ng/ul | |
| 13) Anthracene | 17.24 | 178 | 2865 | 0.045 | ng/ul | 97 |
| 15) Fluoranthene | 19.15 | 202 | 4167 | 0.046 | ng/ul | 85 |
| 17) Pyrene | 19.51 | 202 | 4209 | 0.049 | ng/ul# | 89 |
| 18) Benzo(a)anthracene | 21.24 | 228 | 3598 | 0.046 | ng/ul# | 86 |
| 19) Chrysene | 21.29 | 228 | 4177 | 0.051 | ng/ul | 96 |
| 21) Benzo(b)fluoranthene | 22.93 | 252 | 3533 | 0.043 | ng/ul | 96 |
| 22) Benzo(k)fluoranthene | 22.98 | 252 | 3819 | 0.044 | ng/ul# | 92 |
| 23) Benzo(a)pyrene | 23.56 | 252 | 3356 | 0.044 | ng/ul | 93 |
| 24) Indeno(1,2,3-cd)pyrene | 26.18 | 276 | 3928 | 0.044 | ng/ul# | 92 |
| 25) Dibenzo(a,h)anthracene | 26.21 | 278 | 3285 | 0.044 | ng/ul# | 86 |
| 26) Benzo(g,h,i)perylene | 26.96 | 276 | 3576 | 0.047 | ng/ul | 96 |

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

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE060817\
Data File : BE093080.D
Acq On : 8 Jun 2017 14:41
Operator : SJ/MA
Sample : MDL-W-5
Misc : 0.07 PPM
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 08 15:11:26 2017
Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SOM-EPA-SIM-BE060717.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 08 13:24:15 2017
Response via : Initial Calibration

**Instrument :**
BNA_E
**ClientSampleId :**
MDL-W-5

**Manual Integrations APPROVED**
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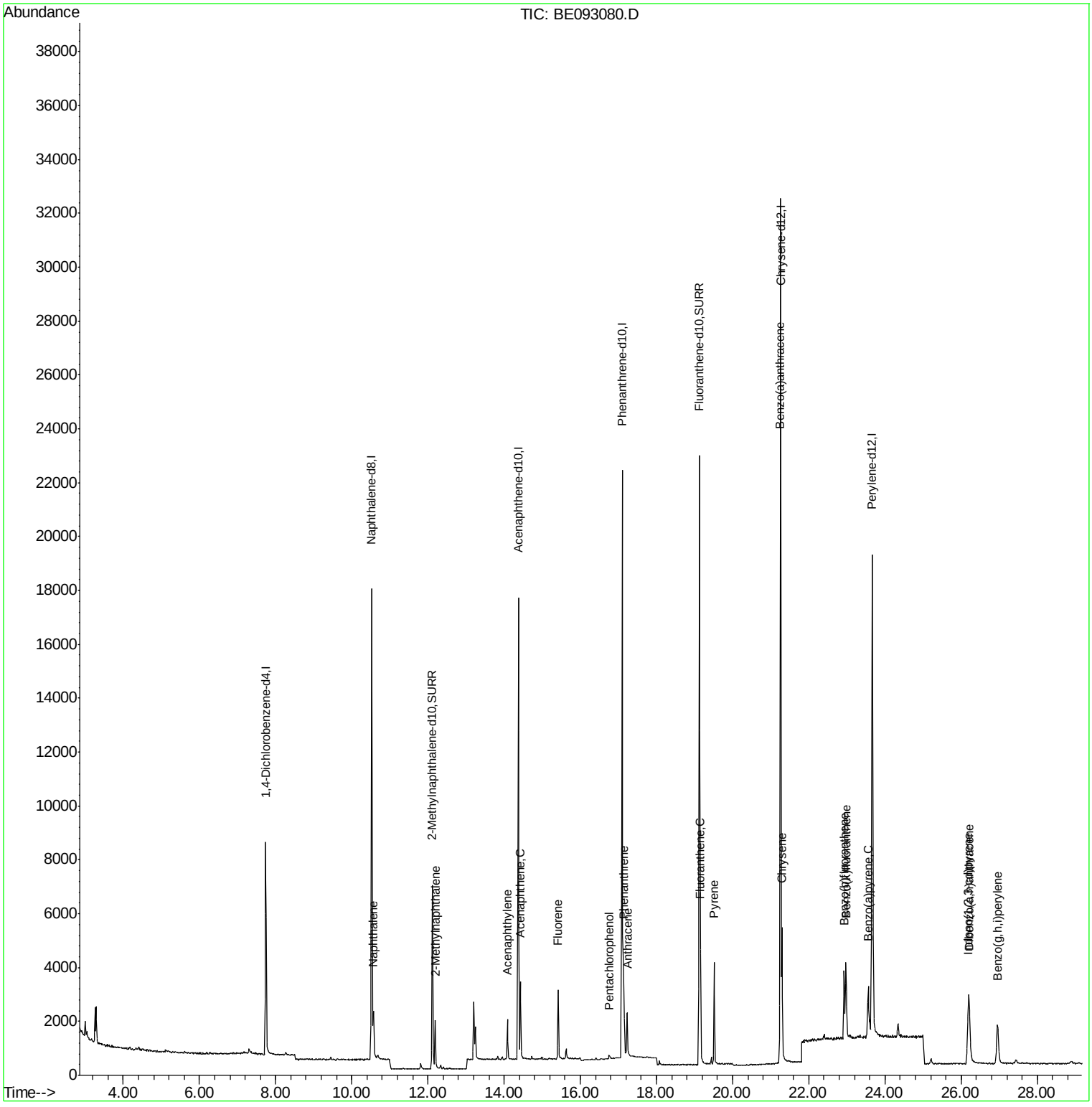

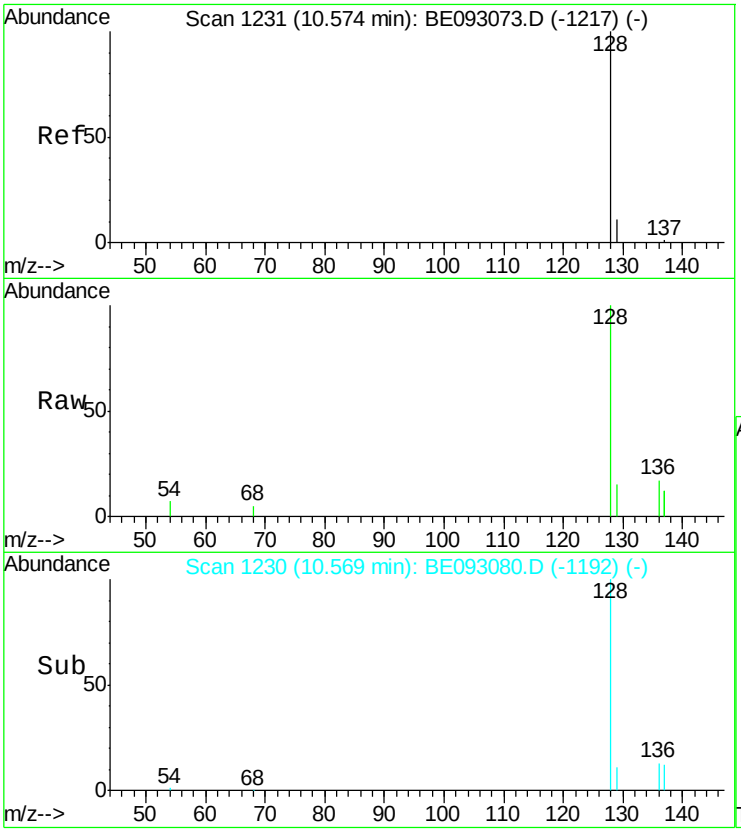


#3
Naphthalene
Concen: 0.051 ng/ul
RT: 10.57 min Scan# 1230
Delta R.T. -0.00 min
Lab File: BE093080.D
Acq: 8 Jun 2017 14:41

Tgt Ion:128 Resp: 2402

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 14.8 | 11.3 | 16.9 |
| 127 | 0.0 | 4.0 | 6.0# |

**Instrument :**
BNA_E
**ClientSampleId :**
MDL-W-5

**Manual Integrations APPROVED**
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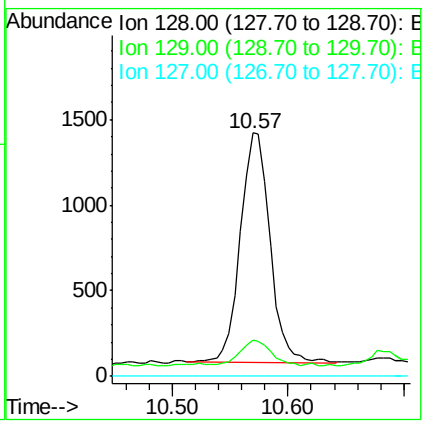
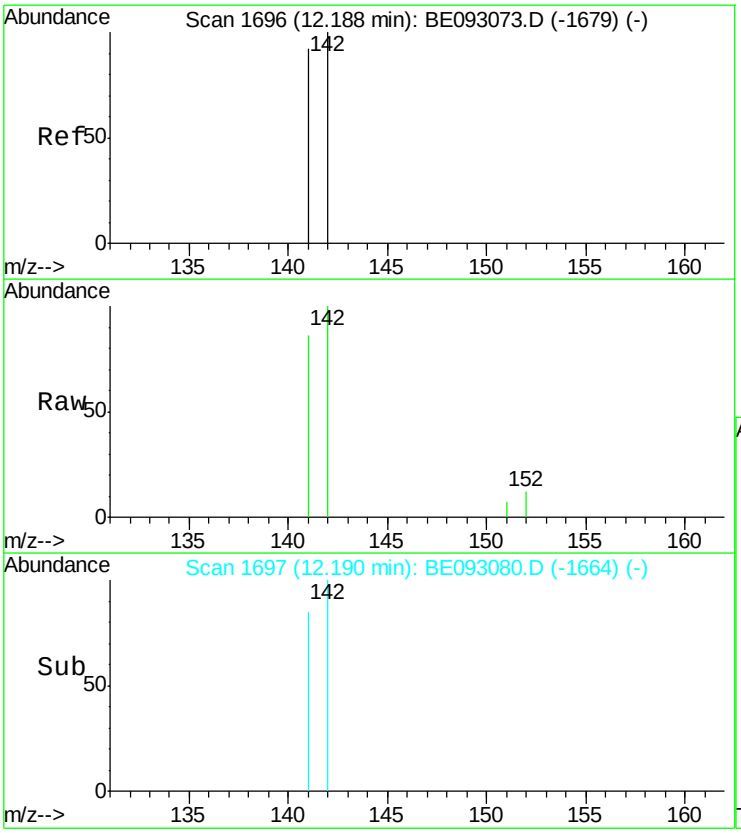
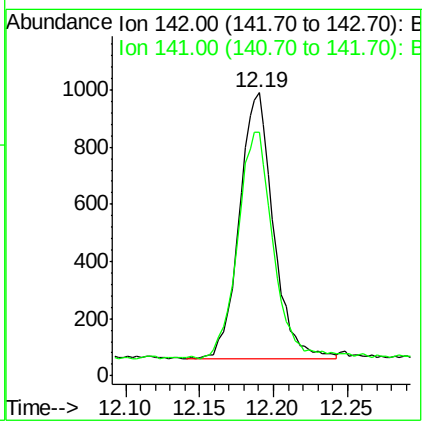


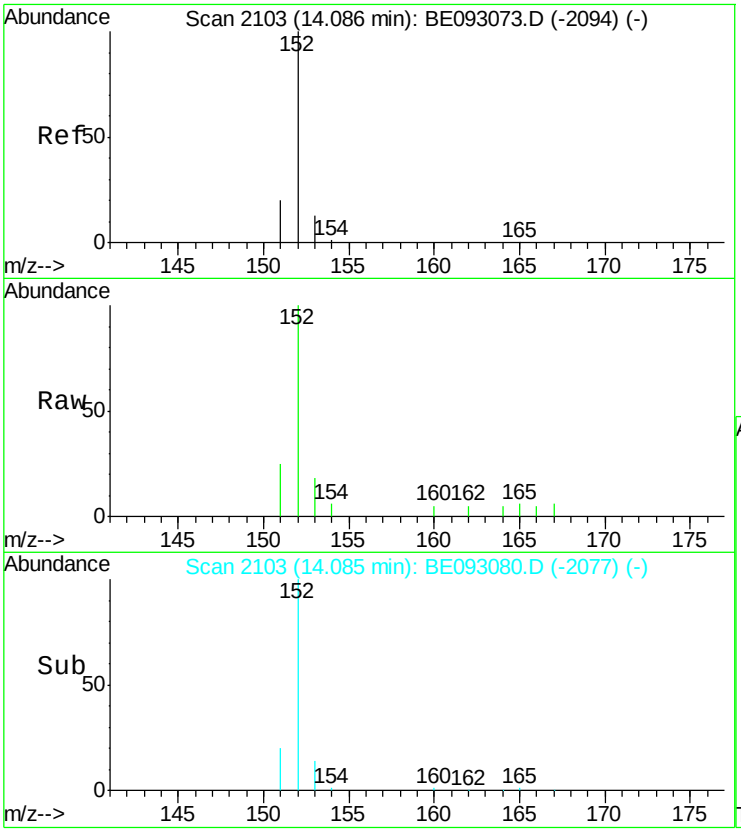




#5
2-Methylnaphthalene
Concen: 0.046 ng/ul
RT: 12.19 min Scan# 1697
Delta R.T. 0.00 min
Lab File: BE093080.D
Acq: 8 Jun 2017 14:41

Tgt Ion:142 Resp: 1497

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 90.8 | 72.6 | 108.8 |

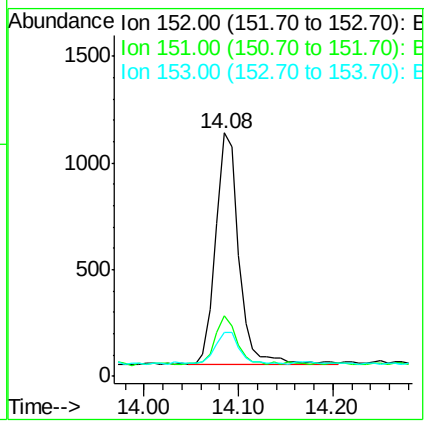





#7
Acenaphthylene
Concen: 0.044 ng/ul
RT: 14.08 min Scan# 2103
Delta R.T. -0.00 min
Lab File: BE093080.D
Acq: 8 Jun 2017 14:41

Tgt Ion:152 Resp: 1818

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 24.8 | 17.1 | 25.7 |
| 153 | 18.1 | 12.8 | 19.2 |




**Instrument :**
BNA_E
**ClientSampleId :**
MDL-W-5

**Manual Integrations APPROVED**
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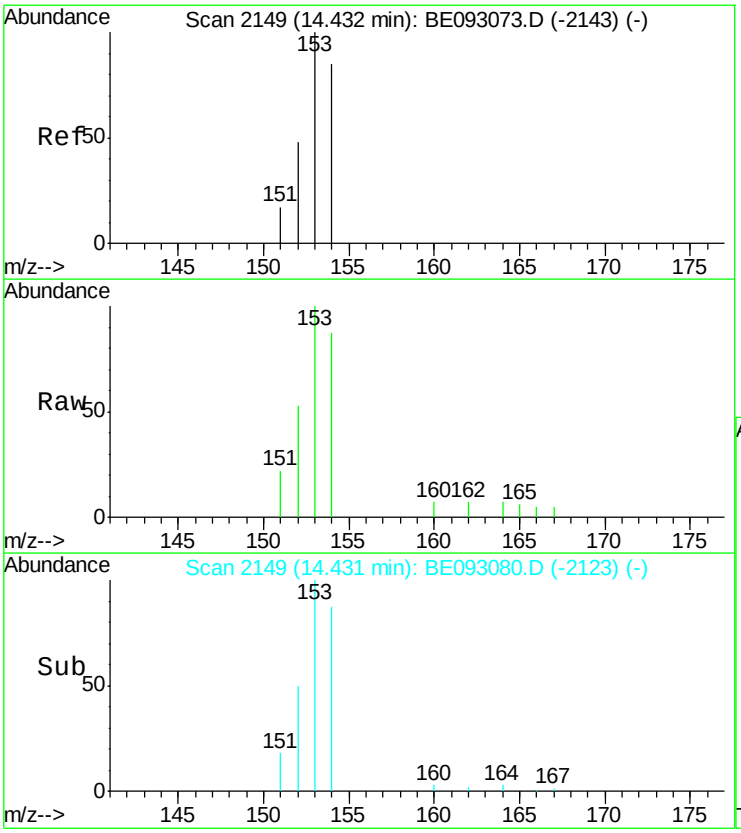
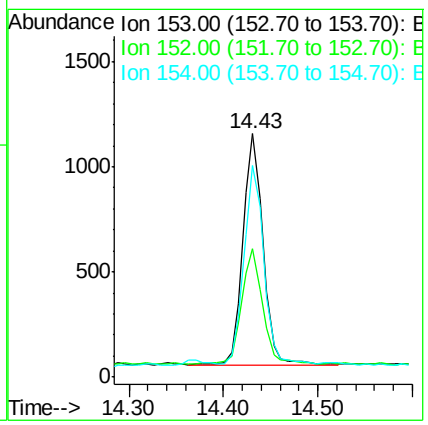
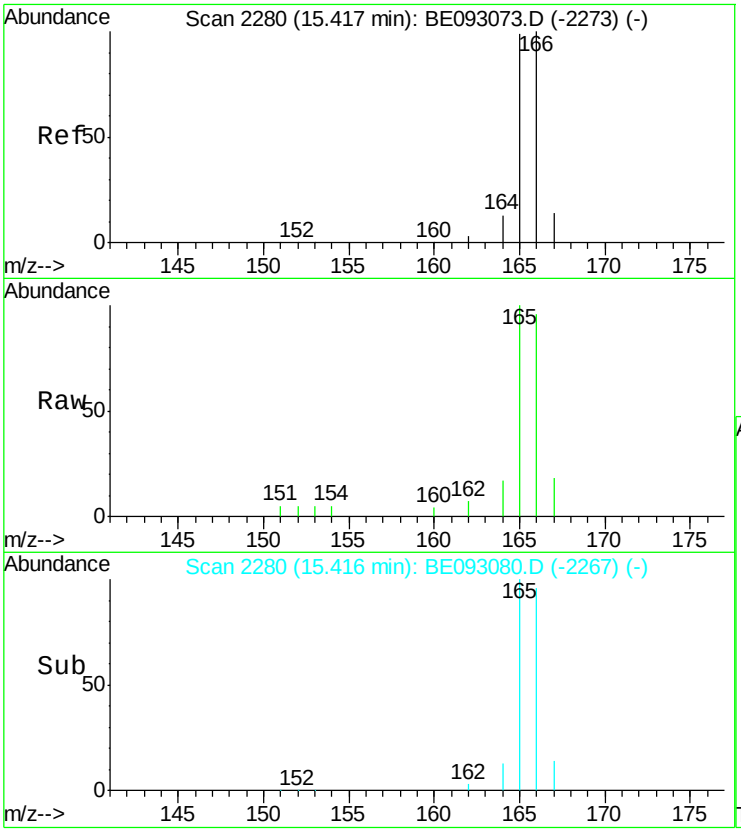



#8
Acenaphthene
Concen: 0.049 ng/ul
RT: 14.43 min Scan# 2149
Delta R.T. -0.00 min
Lab File: BE093080.D
Acq: 8 Jun 2017 14:41

Tgt Ion:153 Resp: 1632

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 153 | 100 | | |
| 152 | 52.7 | 40.3 | 60.5 |
| 154 | 87.0 | 71.4 | 107.2 |

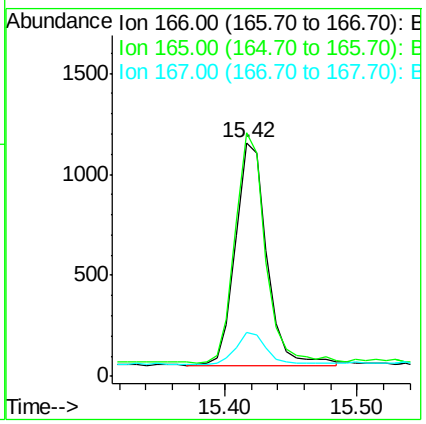





#9
Fluorene
Concen: 0.046 ng/ul
RT: 15.42 min Scan# 2280
Delta R.T. -0.00 min
Lab File: BE093080.D
Acq: 8 Jun 2017 14:41

Tgt Ion:166 Resp: 1813

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 104.1 | 73.4 | 110.2 |
| 167 | 18.6 | 14.6 | 22.0 |




**Instrument :**
BNA_E
**ClientSampleId :**
MDL-W-5

**Manual Integrations APPROVED**
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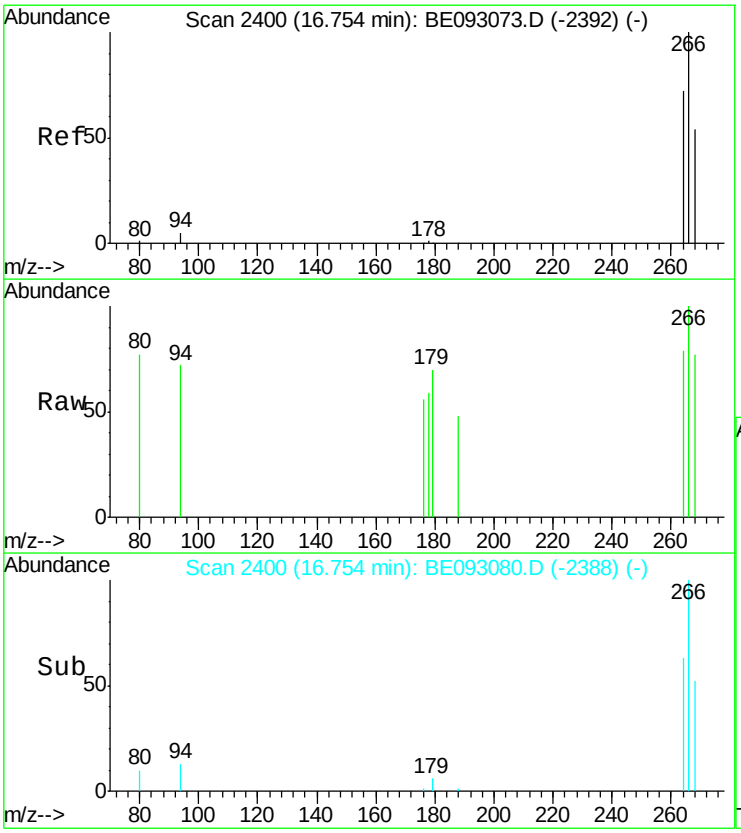
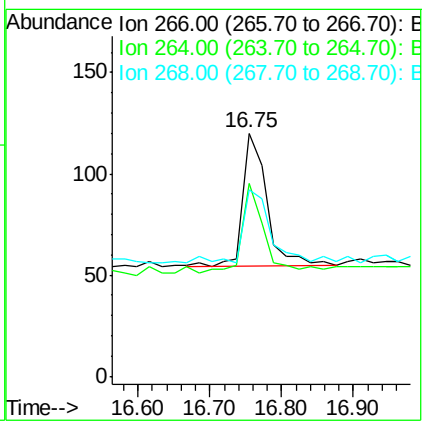
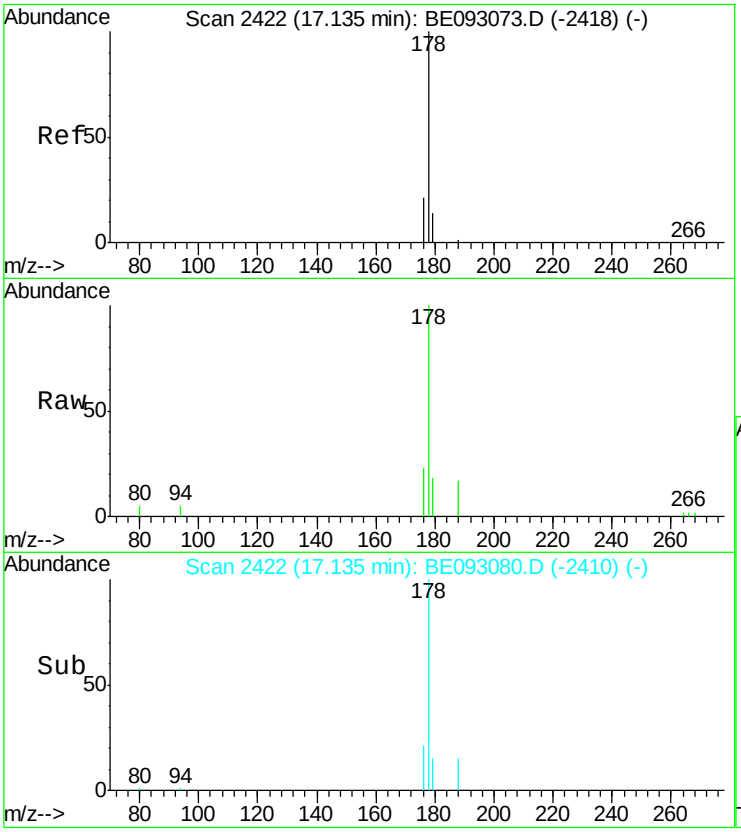



#11
Pentachlorophenol
Concen: 0.038 ng/ul
RT: 16.75 min Scan# 2400
Delta R.T. 0.00 min
Lab File: BE093080.D
Acq: 8 Jun 2017 14:41

Tgt Ion:266 Resp: 152

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 63.8 | 47.9 | 71.9 |
| 268 | 59.9 | 49.8 | 74.8 |






#12
Phenanthrene
Concen: 0.051 ng/ul m
RT: 17.14 min Scan# 2422
Delta R.T. 0.00 min
Lab File: BE093080.D
Acq: 8 Jun 2017 14:41

Tgt Ion:178 Resp: 3729

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 179 | 18.4 | 18.4 | 27.6# |
| 176 | 23.0 | 13.6 | 20.4# |

**Instrument :**
BNA_E
**ClientSampleId :**
MDL-W-5

**Manual Integrations APPROVED**
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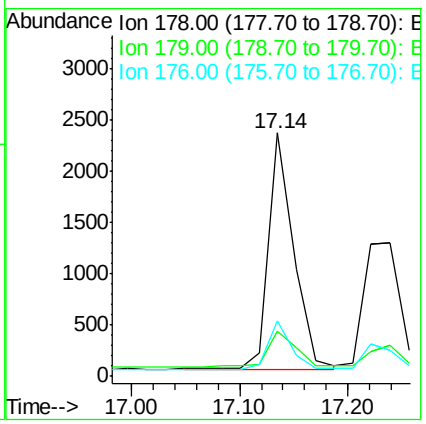
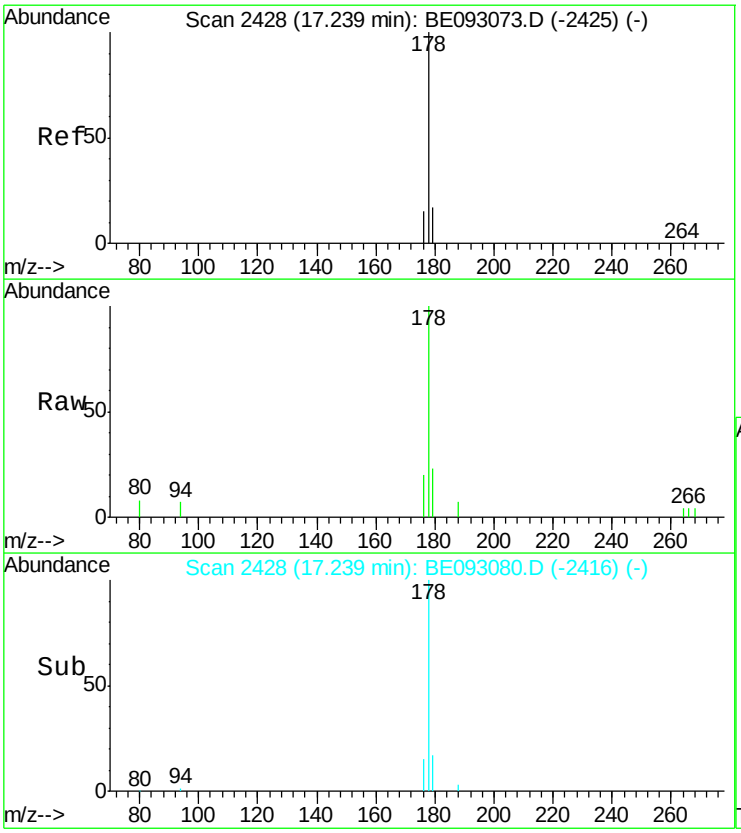
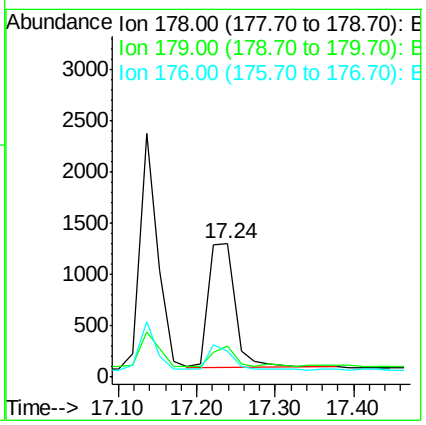


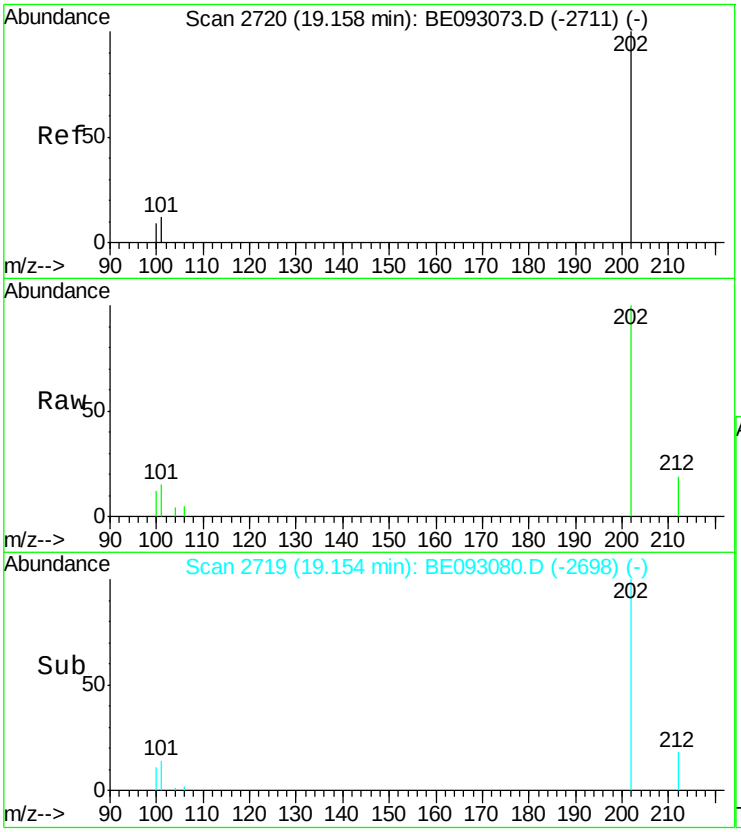




#13
Anthracene
Concen: 0.045 ng/ul
RT: 17.24 min Scan# 2428
Delta R.T. 0.00 min
Lab File: BE093080.D
Acq: 8 Jun 2017 14:41

Tgt Ion:178 Resp: 2865

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 179 | 23.5 | 18.1 | 27.1 |
| 176 | 19.9 | 14.7 | 22.1 |






#15
Fluoranthene
Concen: 0.046 ng/ul
RT: 19.15 min Scan# 2719
Delta R.T. -0.00 min
Lab File: BE093080.D
Acq: 8 Jun 2017 14:41

Tgt Ion:202 Resp: 4167

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 15.5 | 0.0 | 30.3 |
| 100 | 12.1 | 0.0 | 39.5 |

**Instrument :**
BNA_E
**ClientSampleId :**
MDL-W-5

**Manual Integrations APPROVED**
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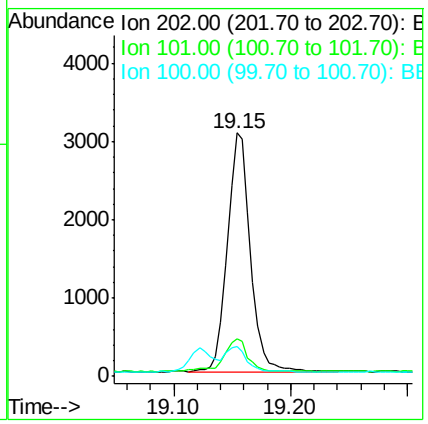
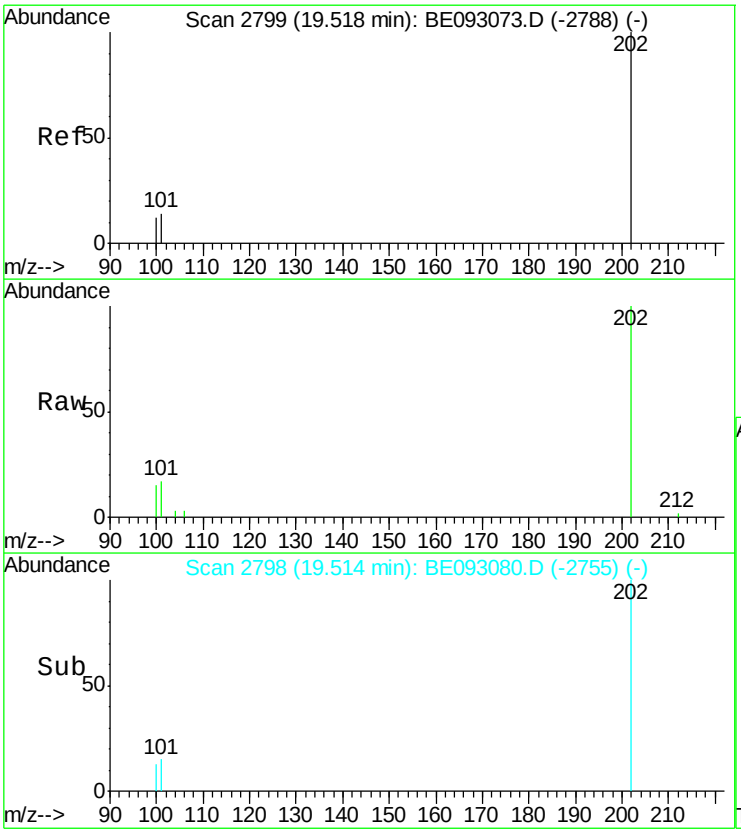
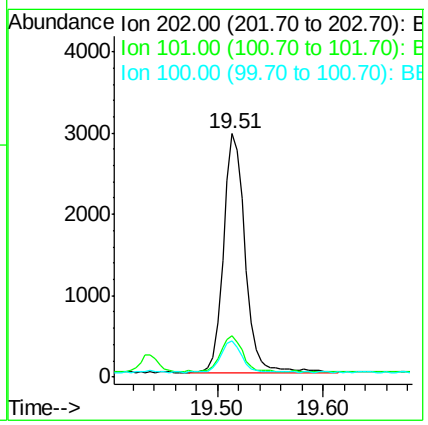


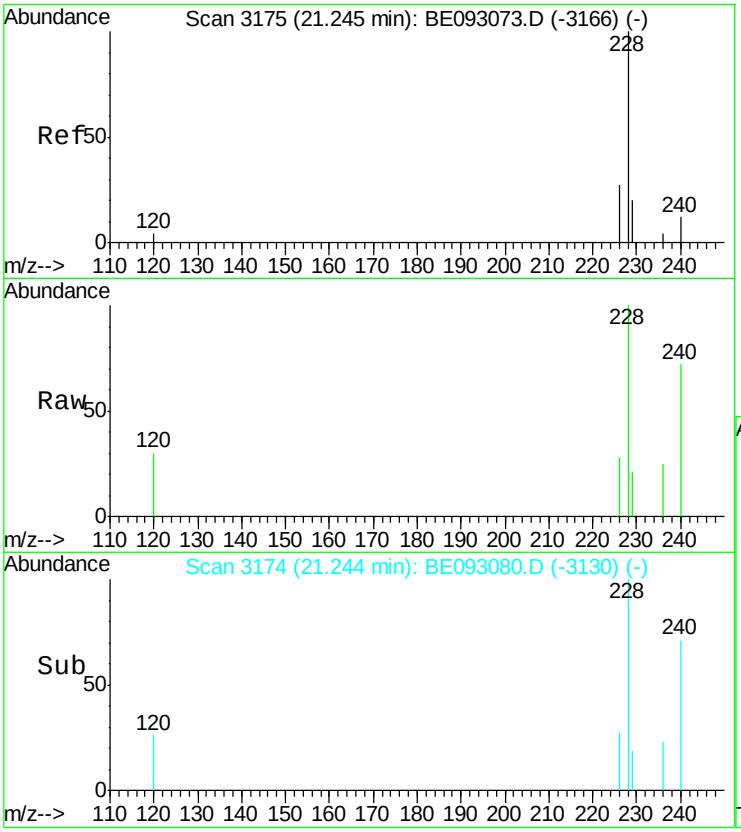




#17
Pyrene
Concen: 0.049 ng/ul
RT: 19.51 min Scan# 2798
Delta R.T. -0.00 min
Lab File: BE093080.D
Acq: 8 Jun 2017 14:41

Tgt Ion:202 Resp: 4209

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 17.0 | 18.2 | 27.4# |
| 100 | 14.8 | 15.6 | 23.4# |

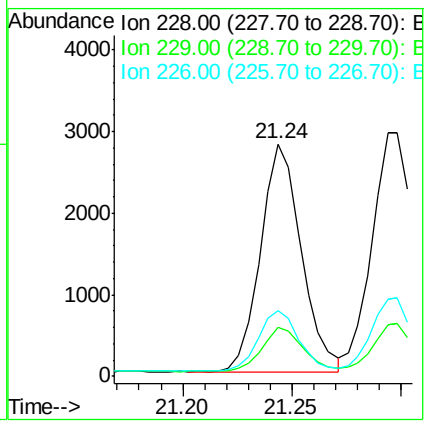





#18
Benzo(a)anthracene
Concen: 0.046 ng/ul
RT: 21.24 min Scan# 3174
Delta R.T. -0.00 min
Lab File: BE093080.D
Acq: 8 Jun 2017 14:41

Tgt Ion:228 Resp: 3598

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 229 | 21.1 | 22.8 | 34.2# |
| 226 | 28.3 | 17.0 | 25.6# |




**Instrument :**
BNA_E
**ClientSampleId :**
MDL-W-5

**Manual Integrations APPROVED**
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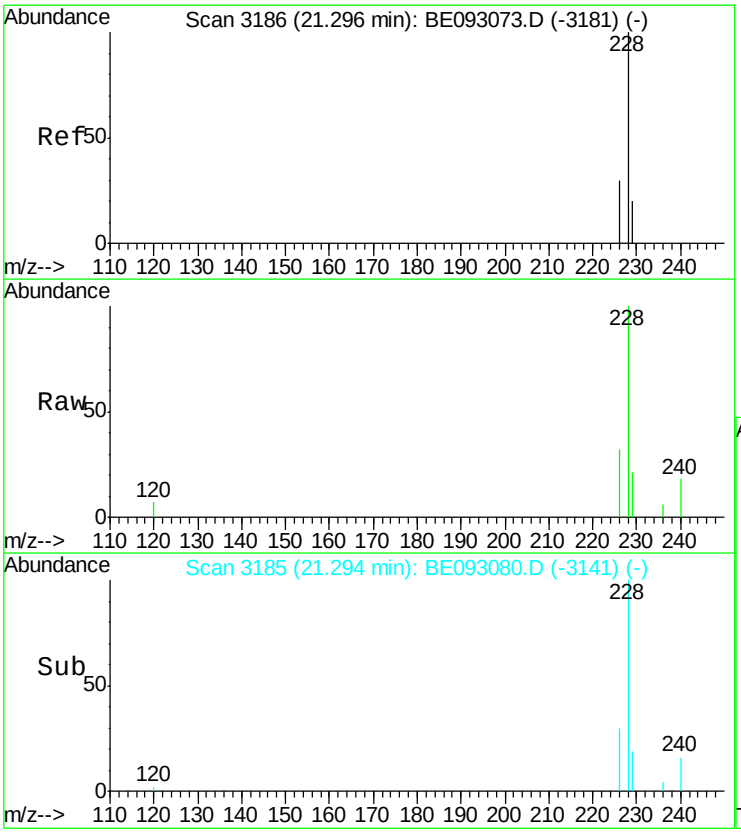
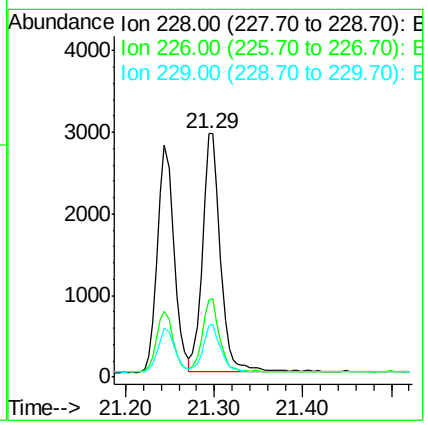
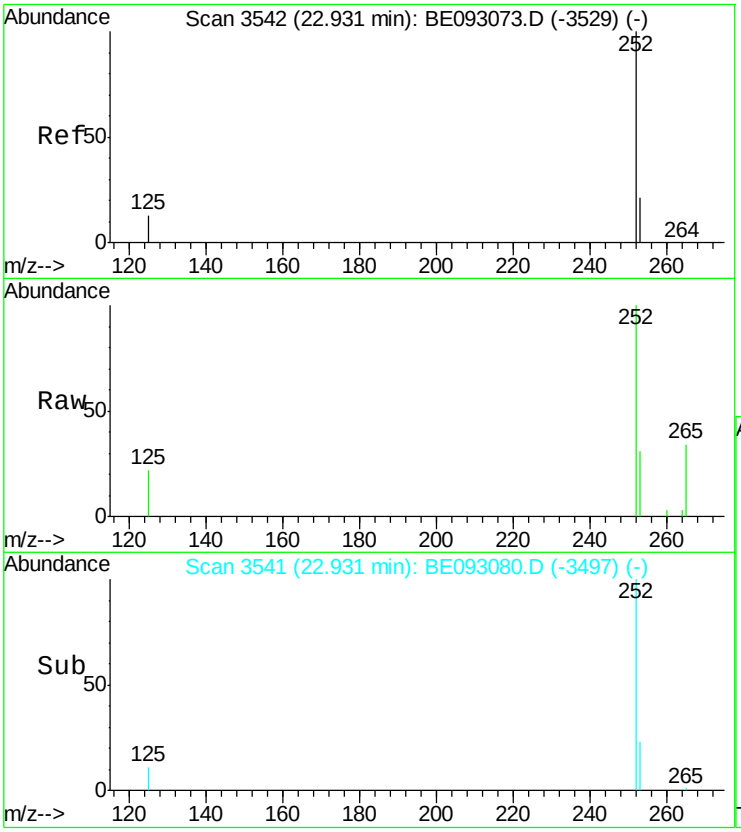



#19
Chrysene
Concen: 0.051 ng/ul
RT: 21.29 min Scan# 3185
Delta R.T. -0.00 min
Lab File: BE093080.D
Acq: 8 Jun 2017 14:41

Tgt Ion:228 Resp: 4177

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 31.7 | 23.4 | 35.0 |
| 229 | 21.0 | 17.7 | 26.5 |

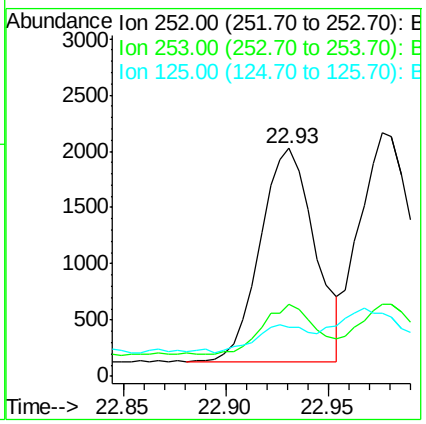





#21
Benzo(b)fluoranthene
Concen: 0.043 ng/ul
RT: 22.93 min Scan# 3541
Delta R.T. 0.00 min
Lab File: BE093080.D
Acq: 8 Jun 2017 14:41

Tgt Ion:252 Resp: 3533

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 31.4 | 0.0 | 64.2 |
| 125 | 21.6 | 0.0 | 35.0 |




**Instrument :**
BNA_E
**ClientSampleId :**
MDL-W-5

**Manual Integrations APPROVED**
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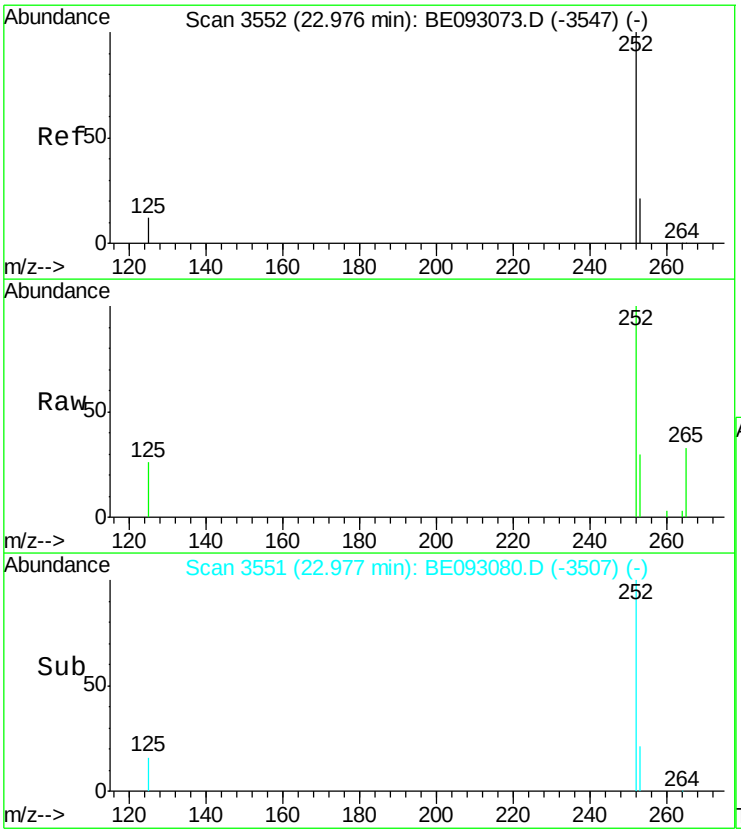
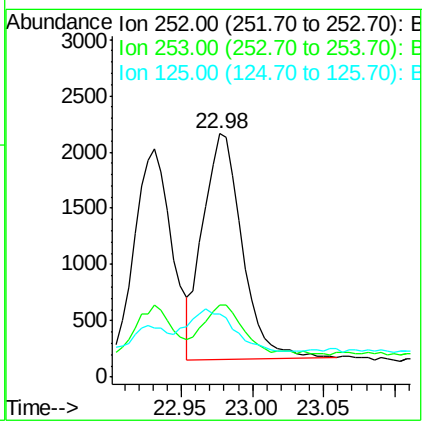
6/9/2017 1:36:17 PM

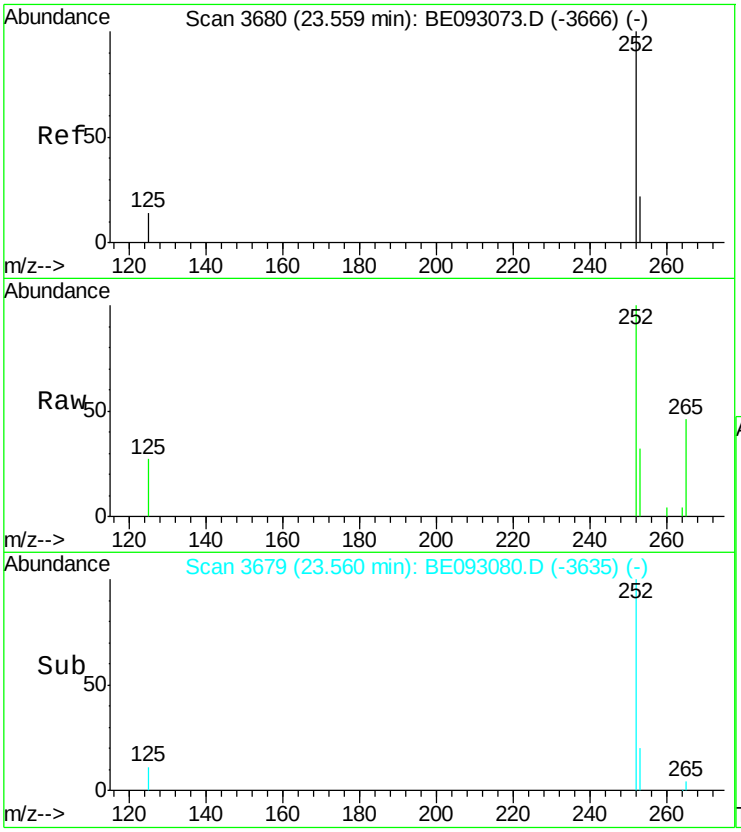



#22
Benzo(k)fluoranthene
Concen: 0.044 ng/ul
RT: 22.98 min Scan# 3551
Delta R.T. 0.00 min
Lab File: BE093080.D
Acq: 8 Jun 2017 14:41

Tgt Ion:252 Resp: 3819

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 29.8 | 24.5 | 36.7 |
| 125 | 25.9 | 13.7 | 20.5# |






#23
Benzo(a)pyrene
Concen: 0.044 ng/ul
RT: 23.56 min Scan# 3679
Delta R.T. 0.00 min
Lab File: BE093080.D
Acq: 8 Jun 2017 14:41

Tgt Ion:252 Resp: 3356

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 31.6 | 28.5 | 42.7 |
| 125 | 26.5 | 18.1 | 27.1 |

**Instrument :**
BNA_E
**ClientSampleId :**
MDL-W-5

**Manual Integrations APPROVED**
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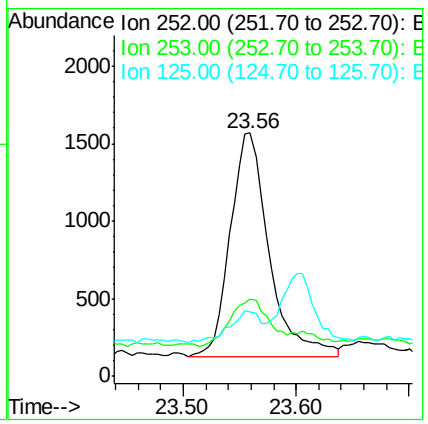
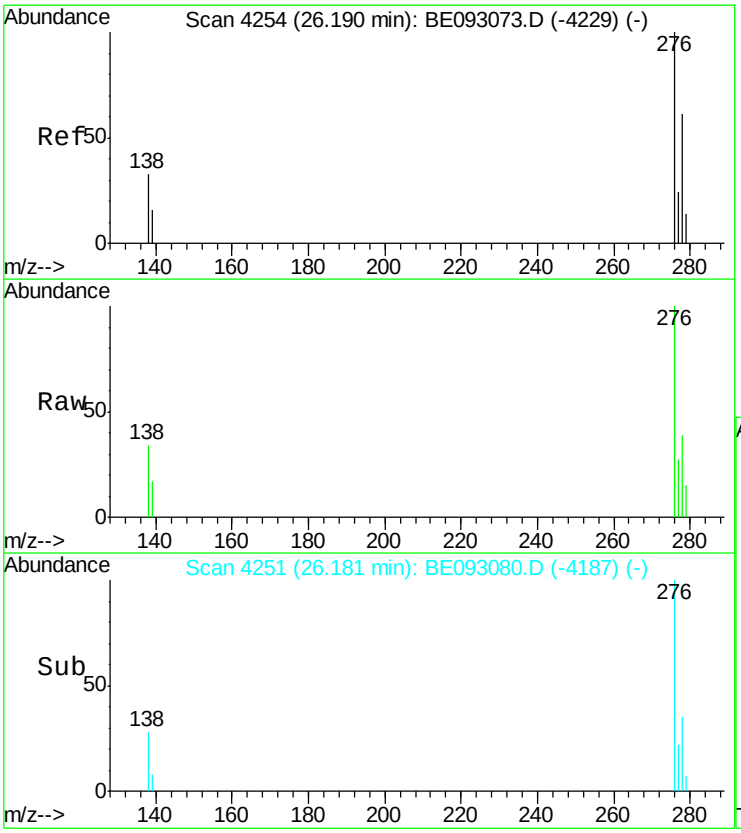
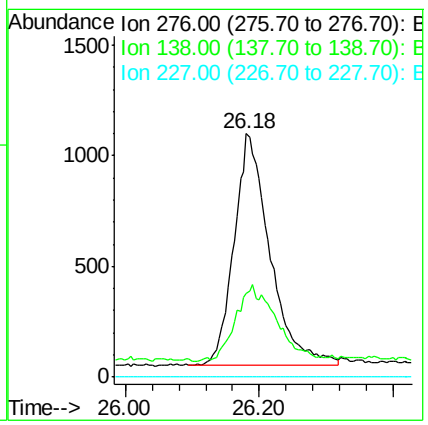


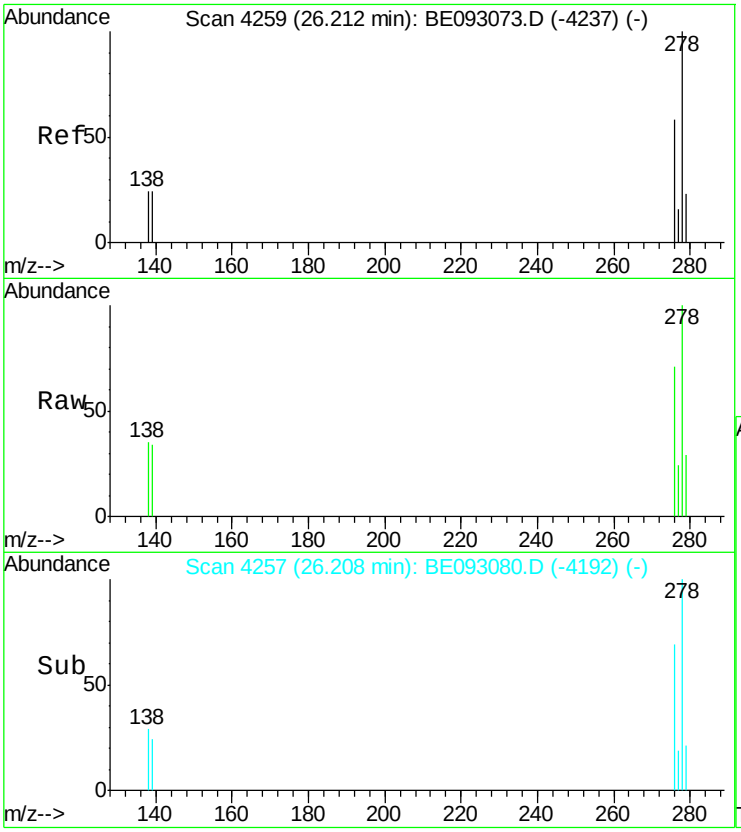




#24
Indeno(1,2,3-cd)pyrene
Concen: 0.044 ng/ul
RT: 26.18 min Scan# 4251
Delta R.T. -0.01 min
Lab File: BE093080.D
Acq: 8 Jun 2017 14:41

Tgt Ion:276 Resp: 3928

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 36.4 | 28.0 | 42.0 |
| 227 | 0.0 | 8.0 | 12.0# |





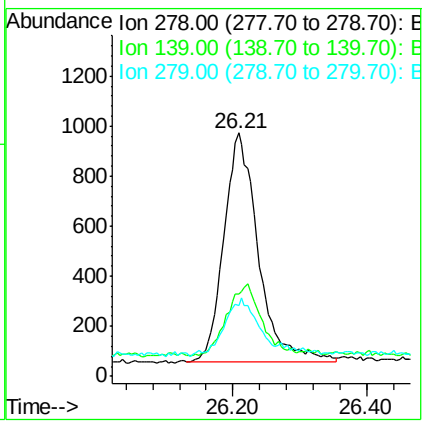

#25
Dibenzo(a,h)anthracene
Concen: 0.044 ng/ul
RT: 26.21 min Scan# 4257
Delta R.T. -0.00 min
Lab File: BE093080.D
Acq: 8 Jun 2017 14:41

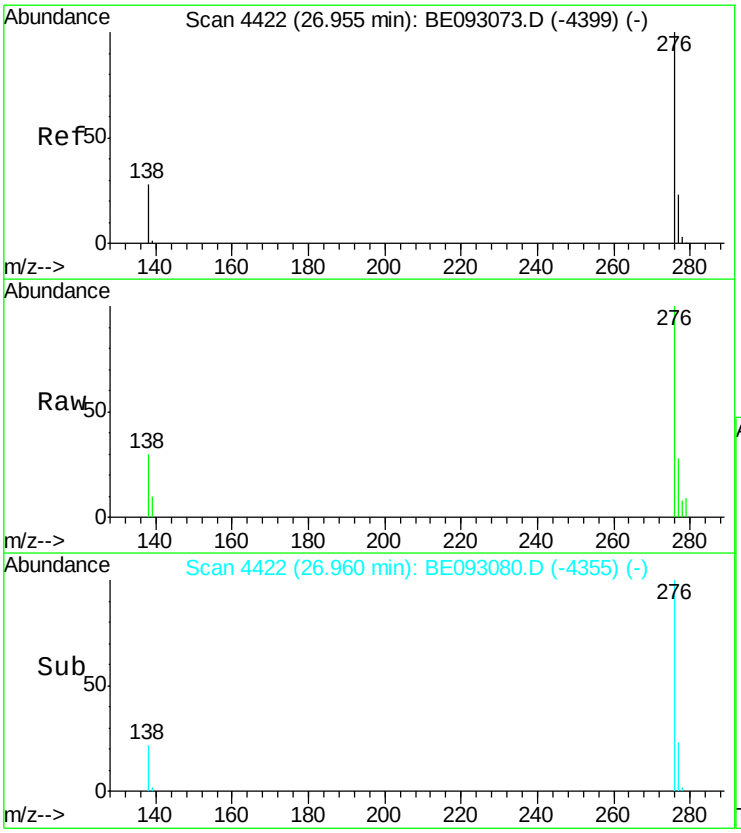
Tgt Ion:278 Resp: 3285

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 33.8 | 17.4 | 26.0# |
| 279 | 29.2 | 25.9 | 38.9 |

**Instrument :**
BNA_E
**ClientSampleId :**
MDL-W-5

**Manual Integrations APPROVED**
mohammad
6/9/2017 1:36:17 PM




#26
Benzo(g,h,i)perylene
Concen: 0.047 ng/ul
RT: 26.96 min Scan# 4422
Delta R.T. 0.01 min
Lab File: BE093080.D
Acq: 8 Jun 2017 14:41

Tgt Ion:276 Resp: 3576

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 29.6 | 21.8 | 32.8 |
| 277 | 27.9 | 20.5 | 30.7 |