

Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE101317\  
 Data File : BE094325.D  
 Acq On : 13 Oct 2017 15:10  
 Operator : SJ/JU  
 Sample : I5568-02DL 5X  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 B-51(1-2)-092817DL

Manual Integrations  
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Sohil  
 10/16/2017 8:22:41 PM

Quant Time: Oct 15 02:45:29 2017  
 Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SOM-EPA-SIM-BE092017.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Oct 14 05:22:31 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.93  | 152  | 1583     | 0.40 | ng/ul | 0.00     |
| 2) Naphthalene-d8         | 10.71 | 136  | 7934     | 0.40 | ng/ul | 0.00     |
| 6) Acenaphthene-d10       | 14.54 | 164  | 4446     | 0.40 | ng/ul | 0.00     |
| 10) Phenanthrene-d10      | 17.27 | 188  | 9256     | 0.40 | ng/ul | 0.00     |
| 16) Chrysene-d12          | 21.45 | 240  | 9972     | 0.40 | ng/ul | 0.00     |
| 20) Perylene-d12          | 23.99 | 264  | 8277     | 0.40 | ng/ul | 0.02     |

|                             |       |     |      |      |       |      |
|-----------------------------|-------|-----|------|------|-------|------|
| System Monitoring Compounds |       |     |      |      |       |      |
| 4) 2-Methylnaphthalene-d10  | 12.30 | 152 | 534  | 0.04 | ng/ul | 0.00 |
| 14) Fluoranthene-d10        | 19.30 | 212 | 1255 | 0.04 | ng/ul | 0.00 |

|                            |       |     |        |        |        |    |
|----------------------------|-------|-----|--------|--------|--------|----|
| Target Compounds           |       |     |        | Qvalue |        |    |
| 3) Naphthalene             | 10.76 | 128 | 38321  | 1.97   | ng/ul# | 91 |
| 5) 2-Methylnaphthalene     | 12.37 | 142 | 3483   | 0.28   | ng/ul  | 97 |
| 7) Acenaphthylene          | 14.27 | 152 | 949    | 0.05   | ng/ul# | 63 |
| 8) Acenaphthene            | 14.60 | 153 | 2297   | 0.16   | ng/ul  | 96 |
| 9) Fluorene                | 15.59 | 166 | 1724   | 0.10   | ng/ul# | 80 |
| 12) Phenanthrene           | 17.31 | 178 | 36537  | 1.51   | ng/ul# | 87 |
| 13) Anthracene             | 17.41 | 178 | 8417   | 0.36   | ng/ul# | 86 |
| 15) Fluoranthene           | 19.33 | 202 | 74722  | 2.35   | ng/ul  | 84 |
| 17) Pyrene                 | 19.70 | 202 | 66829  | 2.41   | ng/ul# | 83 |
| 18) Benzo(a)anthracene     | 21.43 | 228 | 41333  | 1.56   | ng/ul# | 74 |
| 19) Chrysene               | 21.48 | 228 | 55320  | 1.81   | ng/ul# | 73 |
| 21) Benzo(b)fluoranthene   | 23.21 | 252 | 57754m | 2.57   | ng/ul  |    |
| 22) Benzo(k)fluoranthene   | 23.25 | 252 | 23267m | 0.90   | ng/ul  |    |
| 23) Benzo(a)pyrene         | 23.88 | 252 | 38297  | 1.64   | ng/ul# | 45 |
| 24) Indeno(1,2,3-cd)pyrene | 26.71 | 276 | 28515  | 1.19   | ng/ul# | 92 |
| 25) Dibenzo(a,h)anthracene | 26.70 | 278 | 9045   | 0.45   | ng/ul# | 1  |
| 26) Benzo(g,h,i)perylene   | 27.56 | 276 | 28434  | 1.38   | ng/ul# | 53 |

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

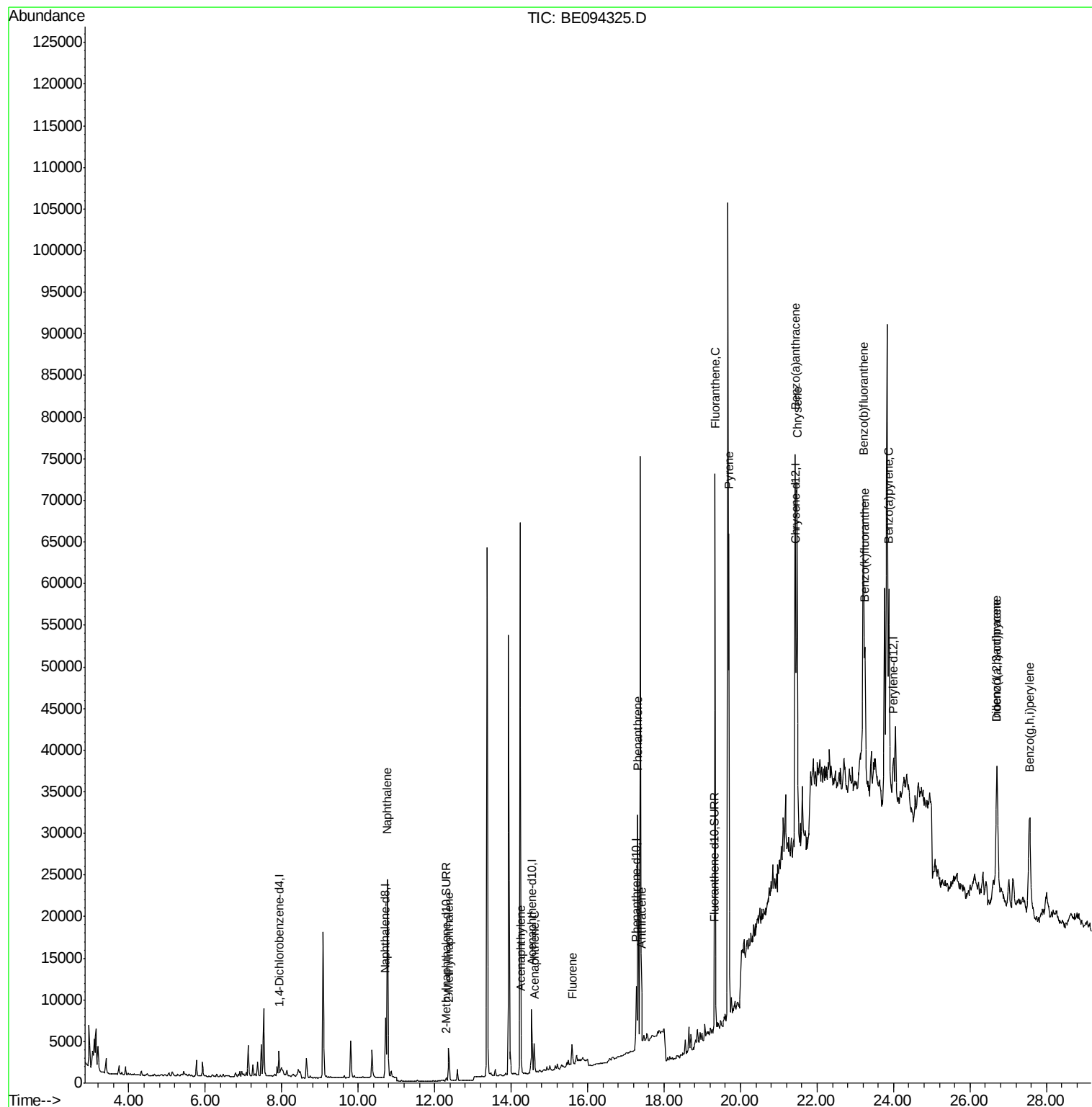
Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE101317\  
Data File : BE094325.D  
Acq On : 13 Oct 2017 15:10  
Operator : SJ/JU  
Sample : I5568-02DL 5X  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

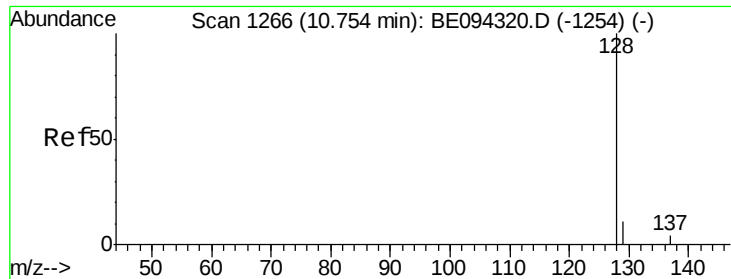
Instrument :  
BNA\_E  
ClientSampleId :  
B-51(1-2)-092817DL

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Quant Time: Oct 15 02:45:29 2017  
Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SOM-EPA-SIM-BE092017.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sat Oct 14 05:22:31 2017  
Response via : Initial Calibration





#3

Naphthalene

Concen: 1.97 ng/ul

RT: 10.76 min Scan# 1268

Delta R.T. 0.01 min

Lab File: BE094325.D

Acq: 13 Oct 2017 15:10

Instrument :

BNA\_E

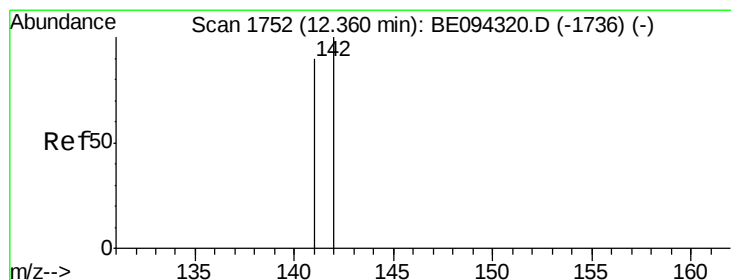
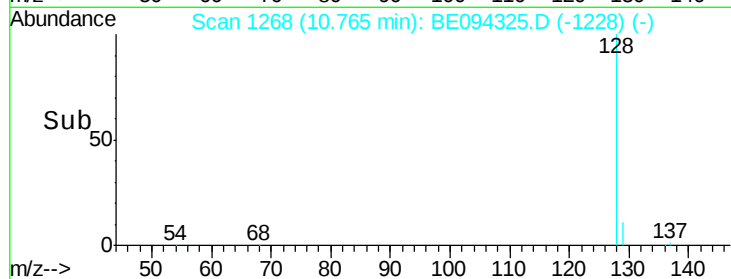
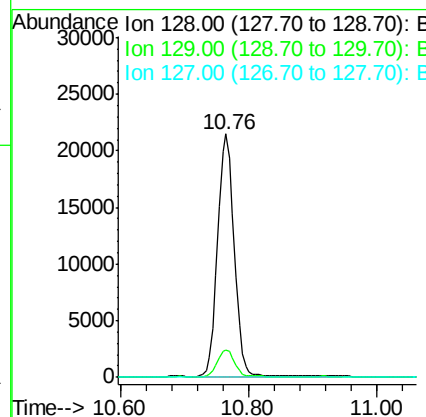
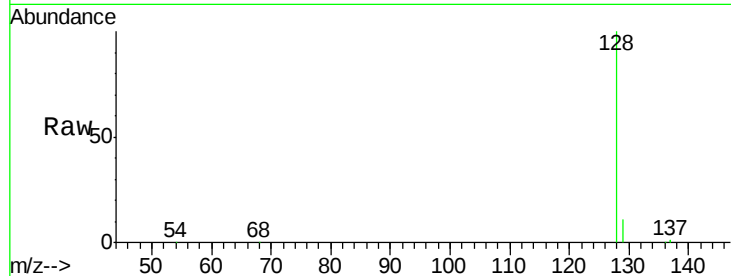
ClientSampleId :

B-51(1-2)-092817DL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 11.4  | 11.3  | 16.9  |
| 127     | 0.0   | 4.0   | 6.0   |

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#5

2-Methylnaphthalene

Concen: 0.28 ng/ul

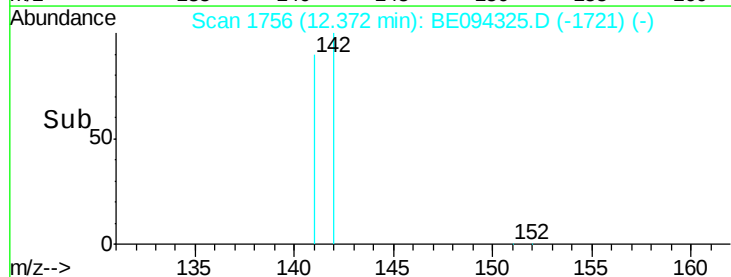
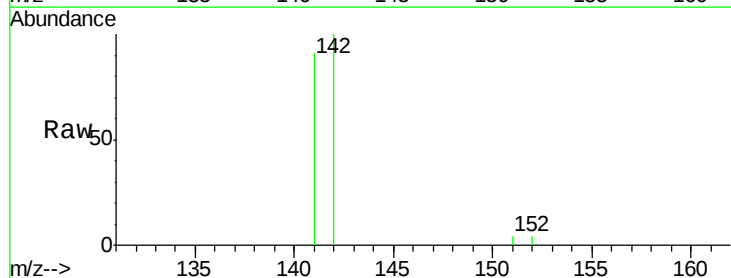
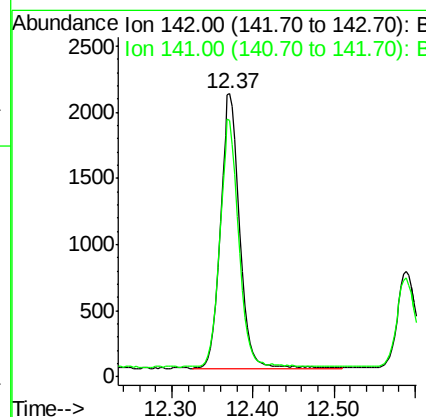
RT: 12.37 min Scan# 1756

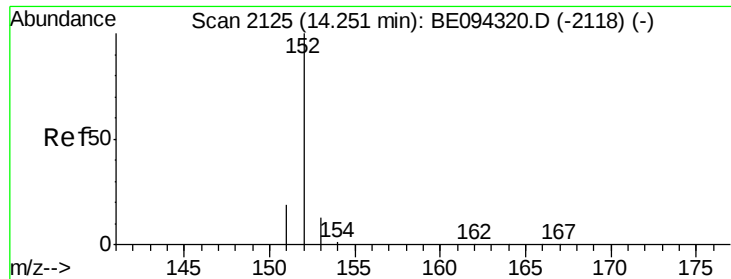
Delta R.T. 0.01 min

Lab File: BE094325.D

Acq: 13 Oct 2017 15:10

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 88.2  | 72.6  | 108.8 |





#7

Acenaphthylene

Concen: 0.05 ng/ul

RT: 14.27 min Scan# 2127

Delta R.T. 0.01 min

Lab File: BE094325.D

Acq: 13 Oct 2017 15:10

Instrument :

BNA\_E

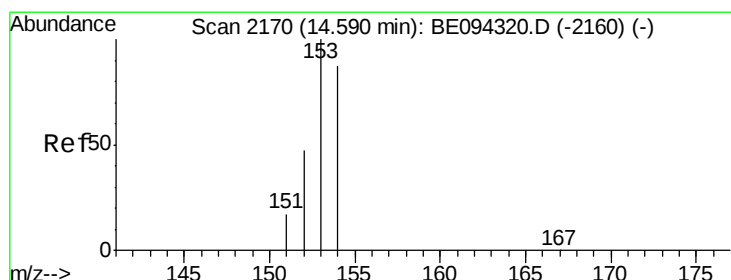
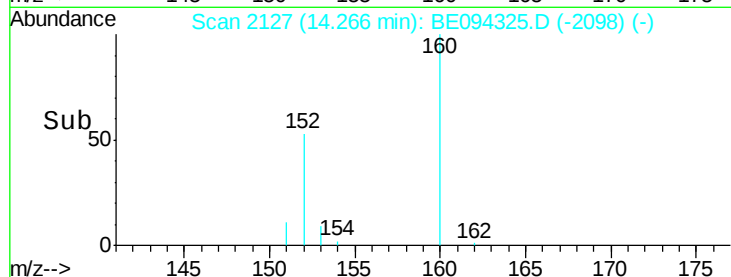
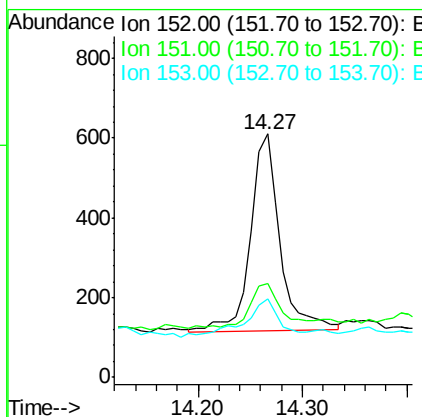
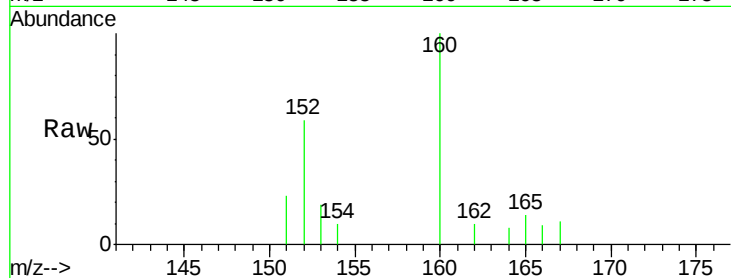
ClientSampleId :

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| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 38.5  | 17.1  | 25.7# |
| 153     | 32.2  | 12.8  | 19.2# |

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#8

Acenaphthene

Concen: 0.16 ng/ul

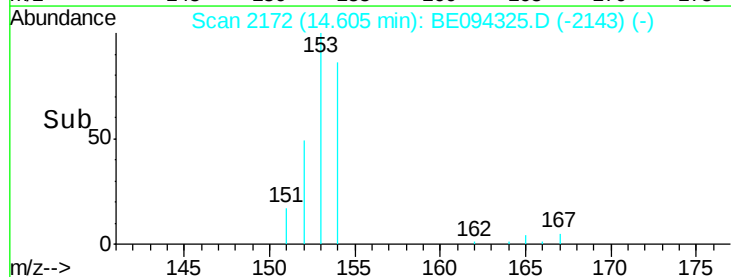
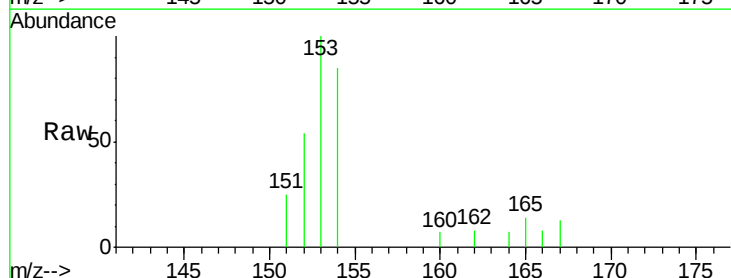
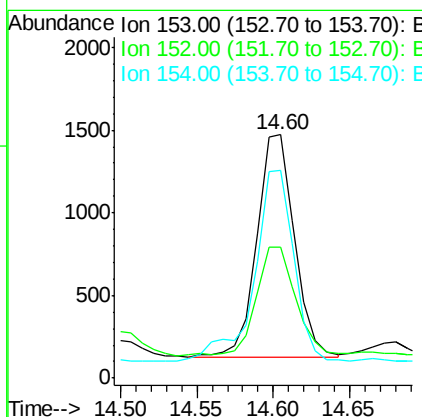
RT: 14.60 min Scan# 2172

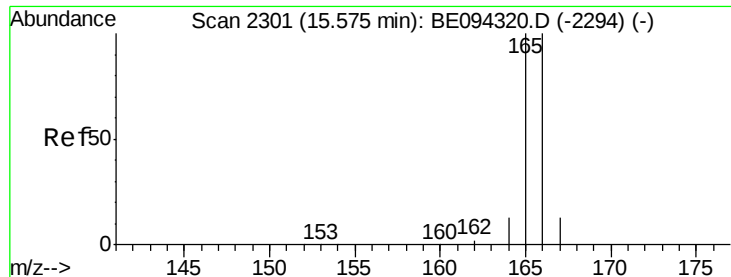
Delta R.T. 0.01 min

Lab File: BE094325.D

Acq: 13 Oct 2017 15:10

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 153     | 100   |       |       |
| 152     | 53.8  | 40.3  | 60.5  |
| 154     | 85.4  | 71.4  | 107.2 |





#9

Fluorene

Concen: 0.10 ng/ul

RT: 15.59 min Scan# 2303

Delta R.T. 0.01 min

Lab File: BE094325.D

Acq: 13 Oct 2017 15:10

Instrument :

BNA\_E

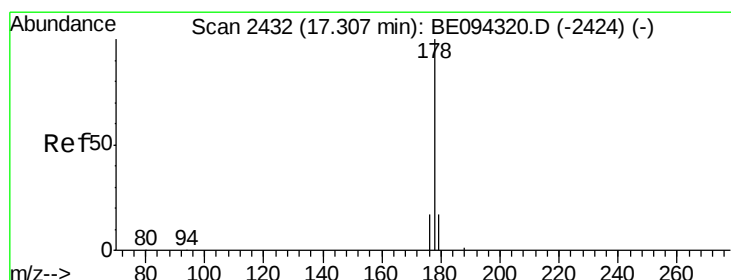
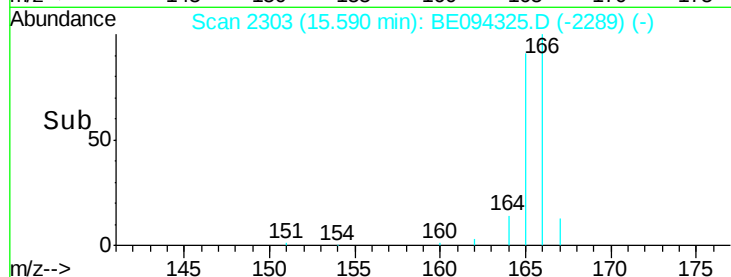
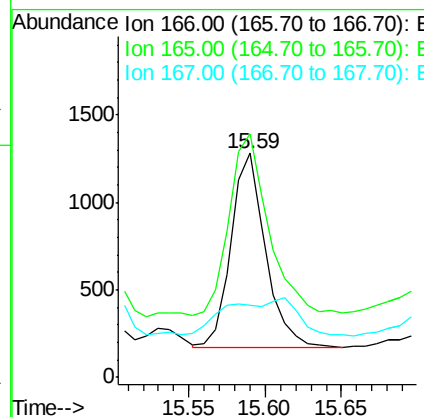
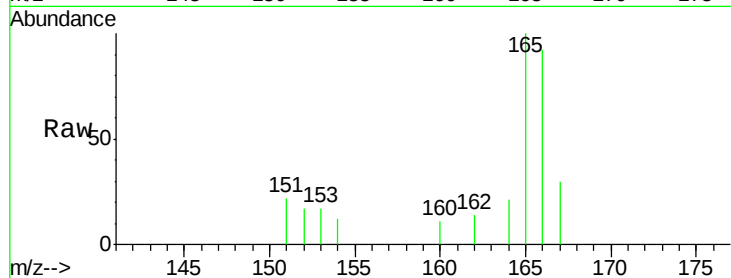
ClientSampleId :

B-51(1-2)-092817DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 166   | Resp: | 1724  |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 108.6 | 73.4  | 110.2 |
| 167       | 32.4  | 14.6  | 22.0# |

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#12

Phenanthrene

Concen: 1.51 ng/ul

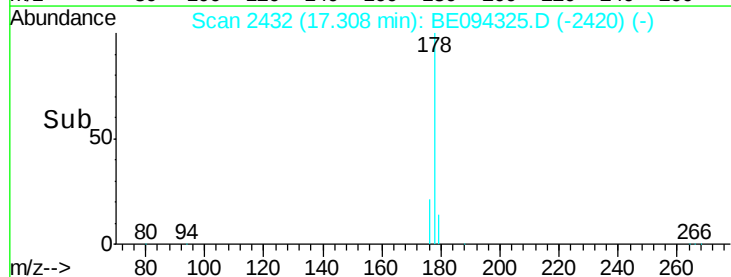
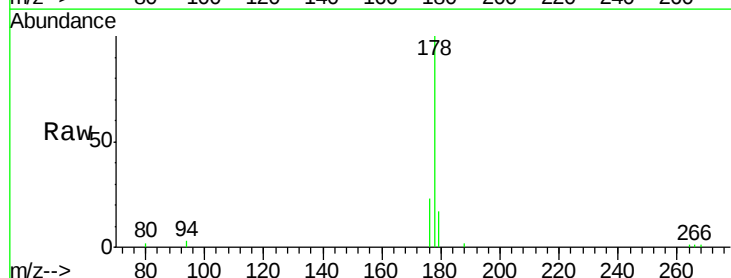
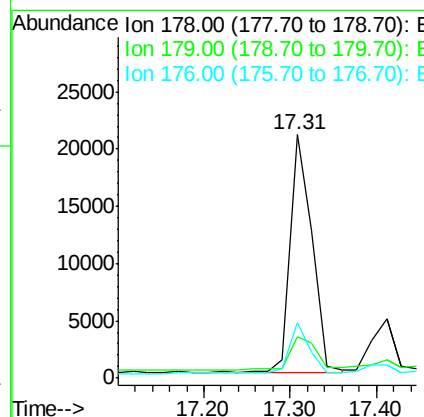
RT: 17.31 min Scan# 2432

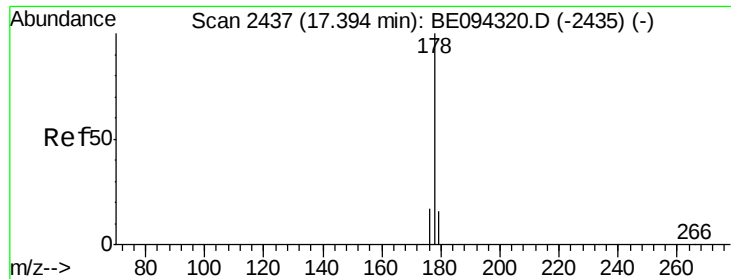
Delta R.T. 0.00 min

Lab File: BE094325.D

Acq: 13 Oct 2017 15:10

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 36537 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 179       | 17.0  | 18.4  | 27.6# |
| 176       | 22.9  | 13.6  | 20.4# |





#13

Anthracene

Concen: 0.36 ng/ul

RT: 17.41 min Scan# 2438

Delta R.T. 0.02 min

Lab File: BE094325.D

Acq: 13 Oct 2017 15:10

Instrument :

BNA\_E

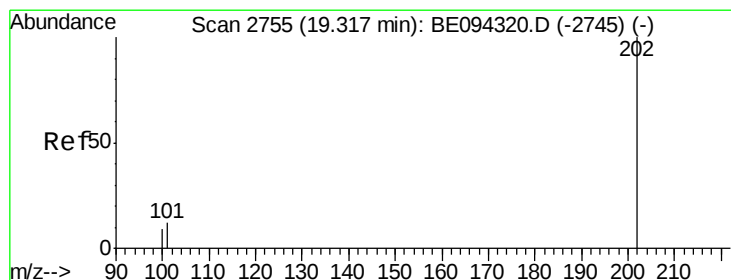
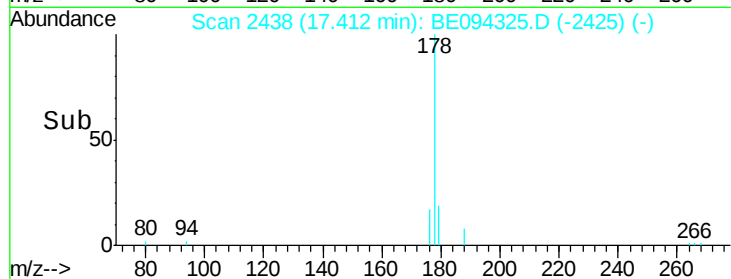
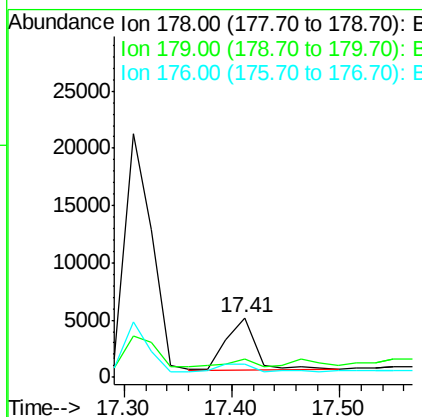
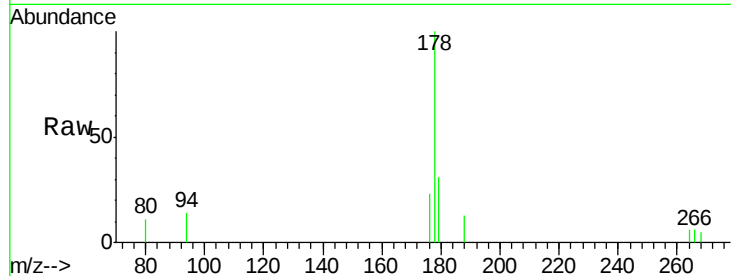
ClientSampleId :

B-51(1-2)-092817DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 8417  |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 179       | 30.8  | 18.1  | 27.1# |
| 176       | 23.3  | 14.7  | 22.1# |

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#15

Fluoranthene

Concen: 2.35 ng/ul

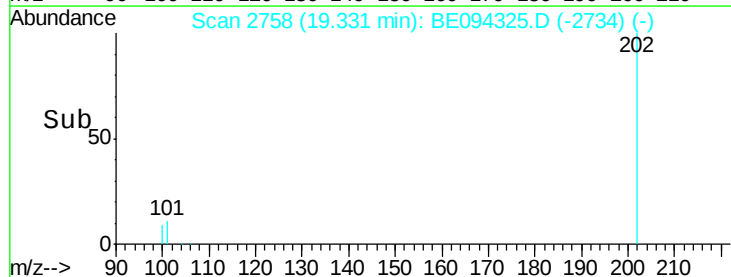
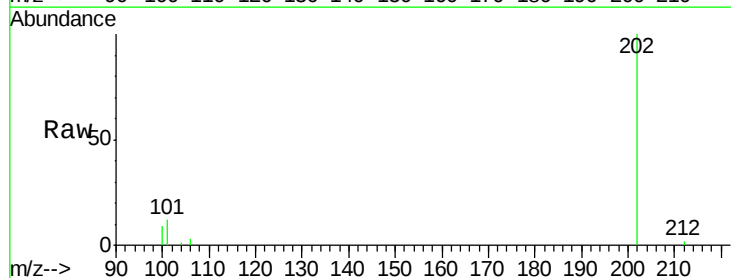
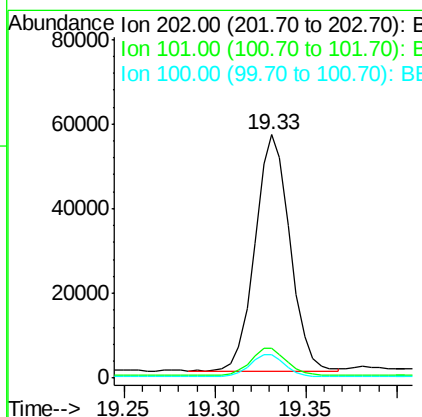
RT: 19.33 min Scan# 2758

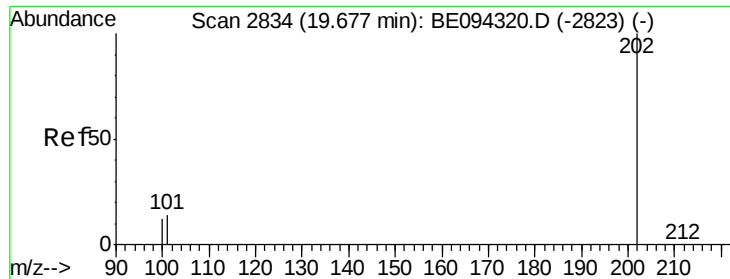
Delta R.T. 0.01 min

Lab File: BE094325.D

Acq: 13 Oct 2017 15:10

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 74722 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 12.4  | 0.0   | 30.3  |
| 100       | 9.5   | 0.0   | 39.5  |





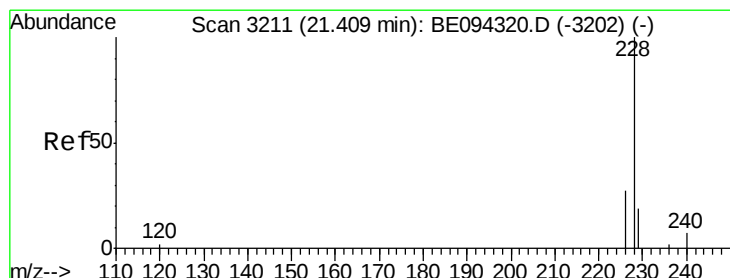
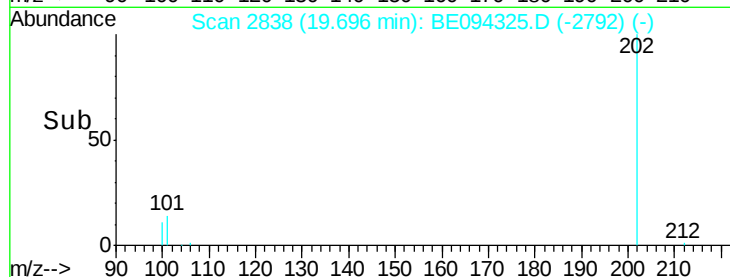
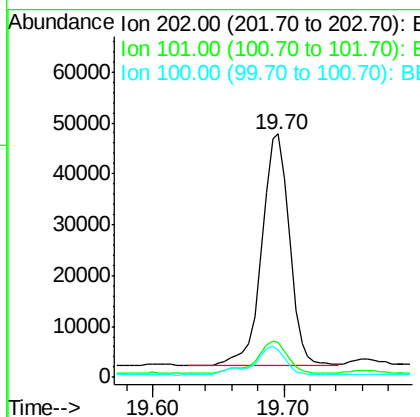
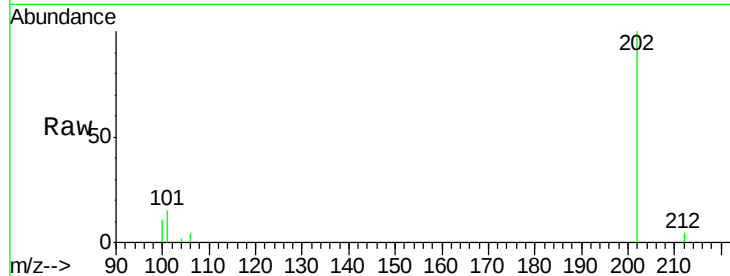
#17  
**Pyrene**  
 Concen: 2.41 ng/ul  
 RT: 19.70 min Scan# 2838  
 Delta R.T. 0.01 min  
 Lab File: BE094325.D  
 Acq: 13 Oct 2017 15:10

Instrument :  
 BNA\_E  
 ClientSampleId :  
 B-51(1-2)-092817DL

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 202     | 100   |            |            |
| 101     | 14.5  | 18.2       | 27.4#      |
| 100     | 11.4  | 15.6       | 23.4#      |

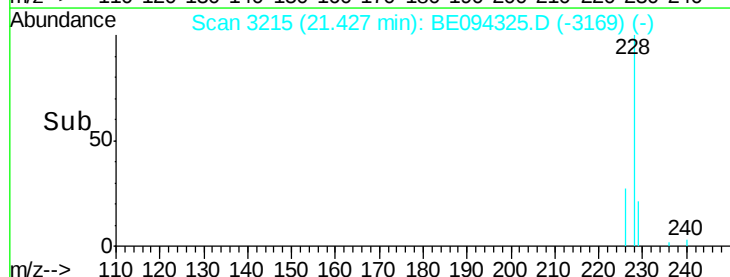
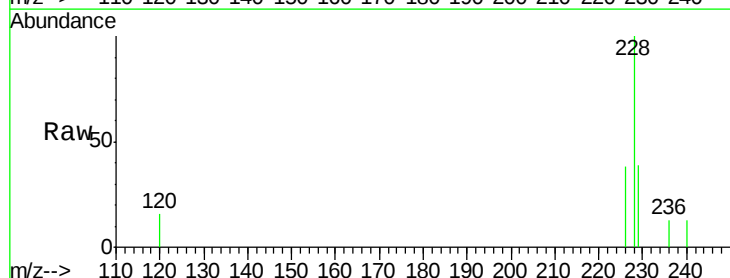
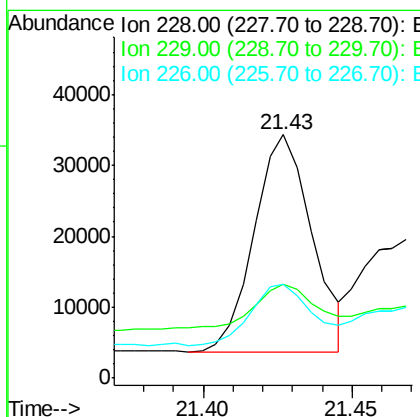
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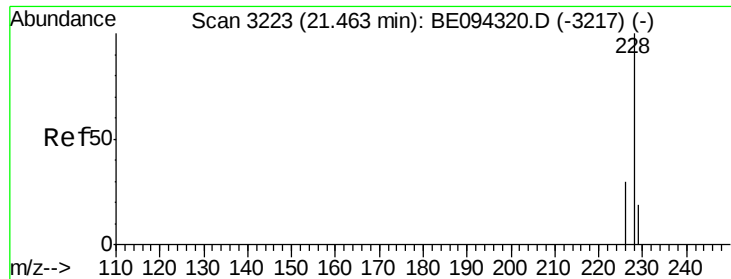
Sohil  
 10/16/2017 8:22:41 PM



#18  
**Benzo(a)anthracene**  
 Concen: 1.56 ng/ul  
 RT: 21.43 min Scan# 3215  
 Delta R.T. 0.01 min  
 Lab File: BE094325.D  
 Acq: 13 Oct 2017 15:10

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 228     | 100   |            |            |
| 229     | 38.6  | 22.8       | 34.2#      |
| 226     | 38.4  | 17.0       | 25.6#      |





#19

Chrysene

Concen: 1.81 ng/ul

RT: 21.48 min Scan# 3227

Delta R.T. 0.01 min

Lab File: BE094325.D

Acq: 13 Oct 2017 15:10

Instrument :

BNA\_E

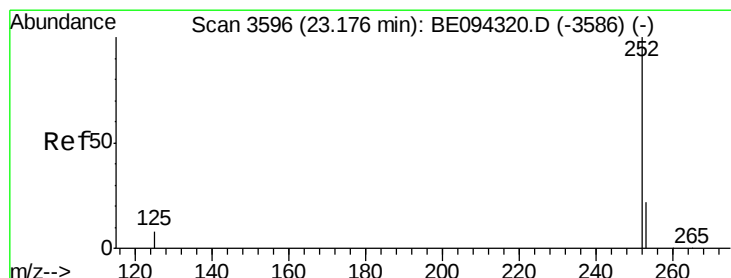
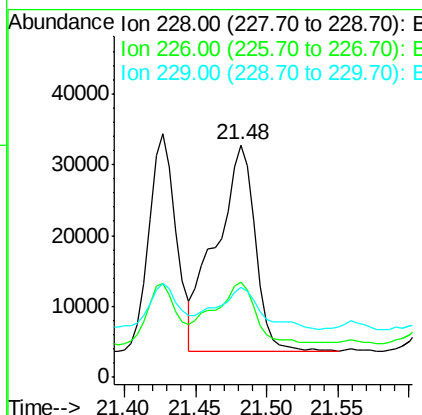
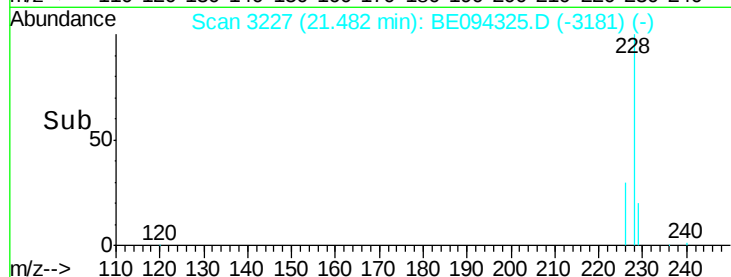
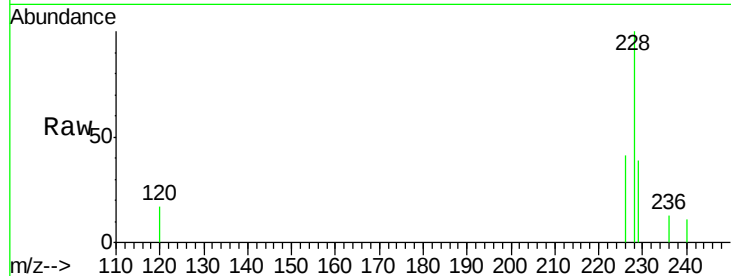
ClientSampleId :

B-51(1-2)-092817DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 55320 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 41.0  | 23.4  | 35.0# |
| 229       | 38.5  | 17.7  | 26.5# |

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#21

Benzo(b)fluoranthene

Concen: 2.57 ng/ul m

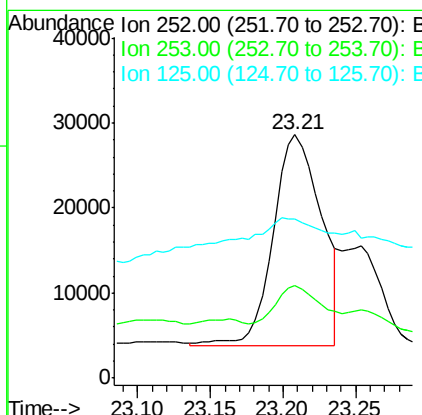
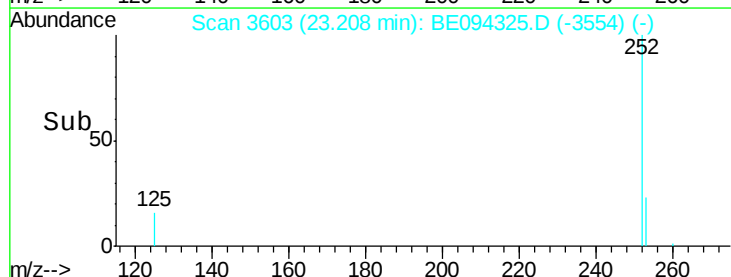
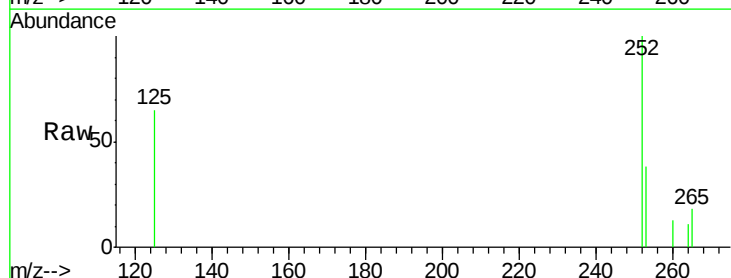
RT: 23.21 min Scan# 3603

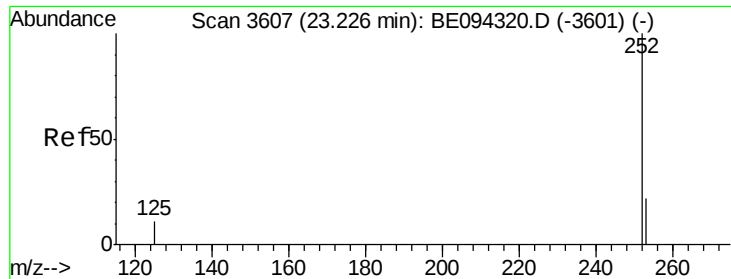
Delta R.T. 0.02 min

Lab File: BE094325.D

Acq: 13 Oct 2017 15:10

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 57754 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 37.8  | 0.0   | 64.2  |
| 125       | 65.3  | 0.0   | 35.0# |





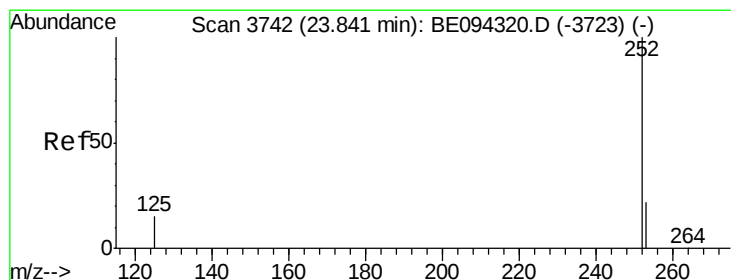
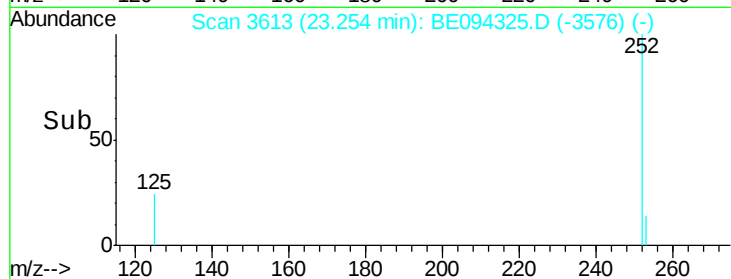
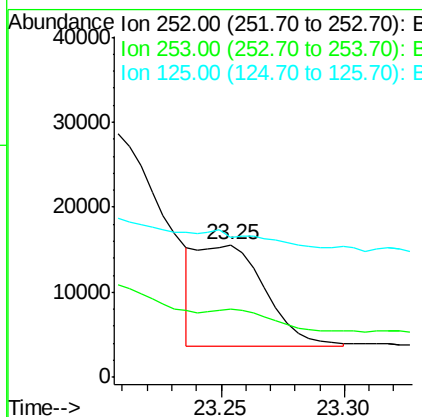
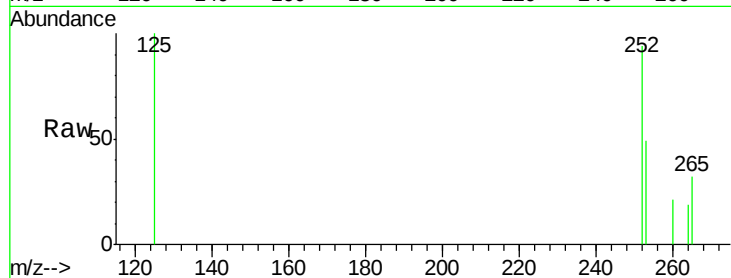
#22  
Benzo(k)fluoranthene  
Concen: 0.90 ng/ul m  
RT: 23.25 min Scan# 3613  
Delta R.T. 0.02 min  
Lab File: BE094325.D  
Acq: 13 Oct 2017 15:10

Instrument :  
BNA\_E  
ClientSampleId :  
B-51(1-2)-092817DL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 51.5  | 24.5  | 36.7# |
| 125     | 106.1 | 13.7  | 20.5# |

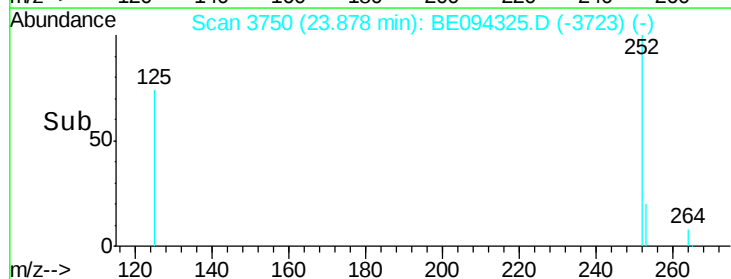
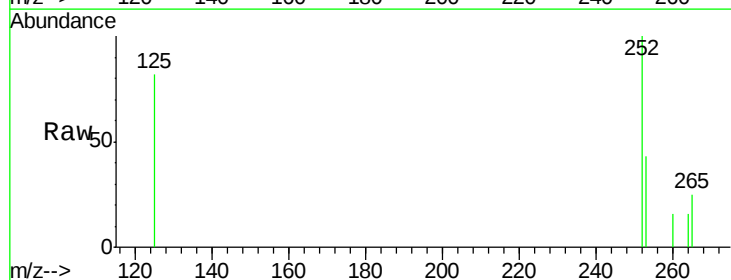
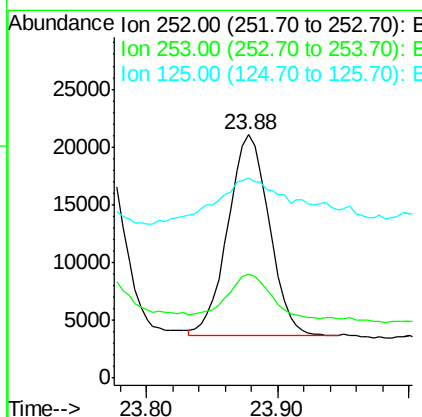
Manual Integrations  
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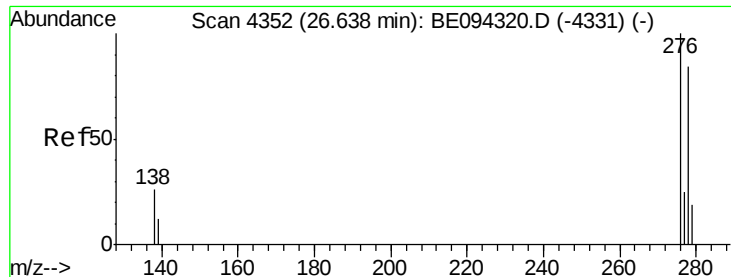
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10/16/2017 8:22:41 PM



#23  
Benzo(a)pyrene  
Concen: 1.64 ng/ul  
RT: 23.88 min Scan# 3750  
Delta R.T. 0.02 min  
Lab File: BE094325.D  
Acq: 13 Oct 2017 15:10

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 42.6  | 28.5  | 42.7  |
| 125     | 82.3  | 18.1  | 27.1# |





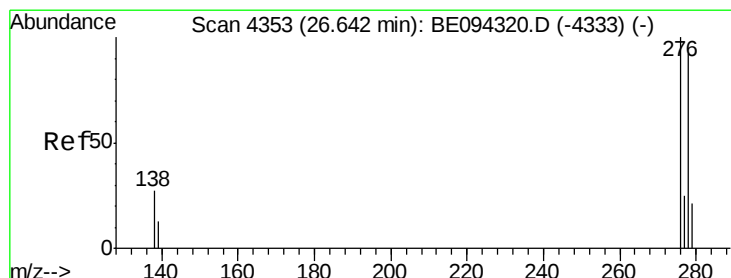
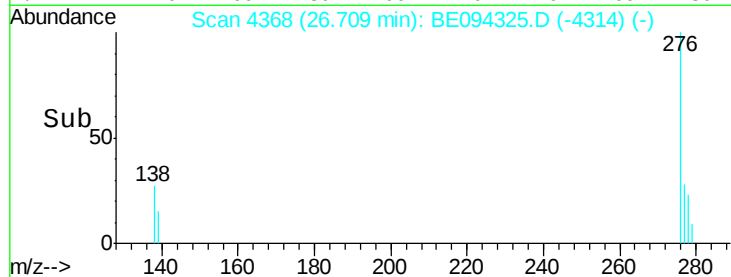
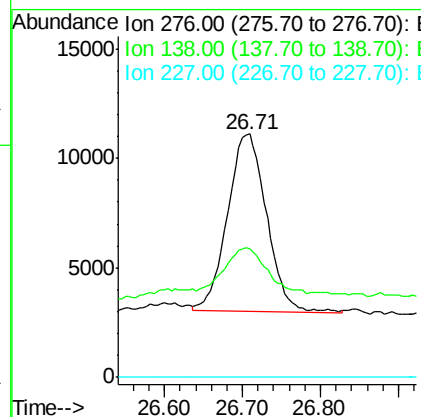
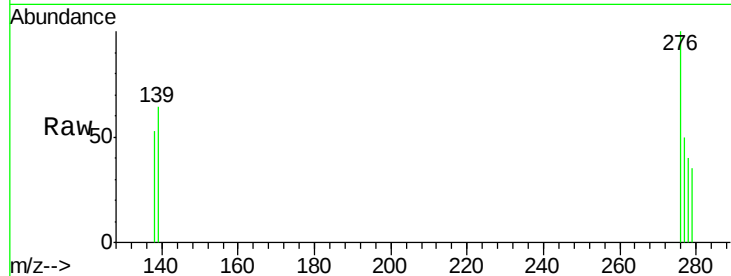
#24  
 Indeno(1,2,3-cd)pyrene  
 Concen: 1.19 ng/ul  
 RT: 26.71 min Scan# 4368  
 Delta R.T. 0.05 min  
 Lab File: BE094325.D  
 Acq: 13 Oct 2017 15:10

Instrument :  
 BNA\_E  
 ClientSampleId :  
 B-51(1-2)-092817DL

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 276     | 100   |            |            |
| 138     | 33.8  | 28.0       | 42.0       |
| 227     | 0.0   | 8.0        | 12.0       |

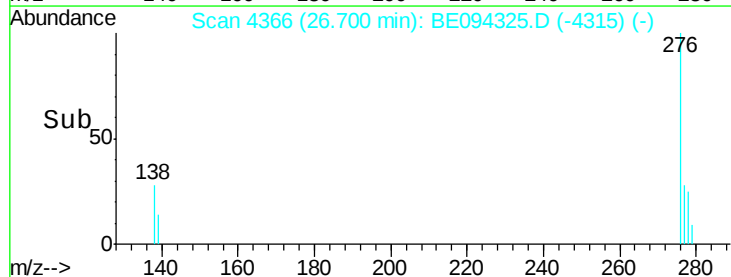
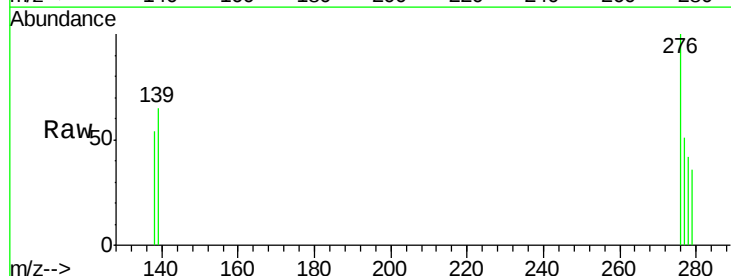
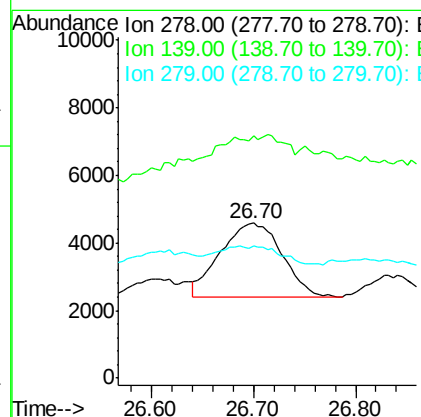
Manual Integrations  
 APPROVED

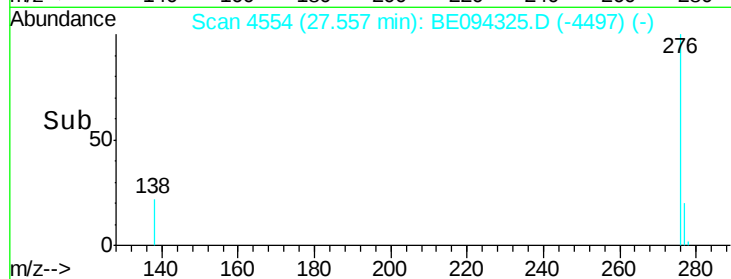
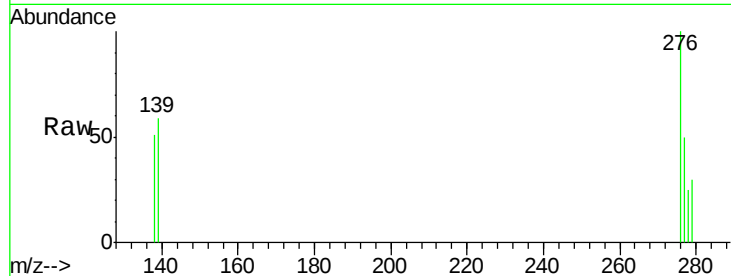
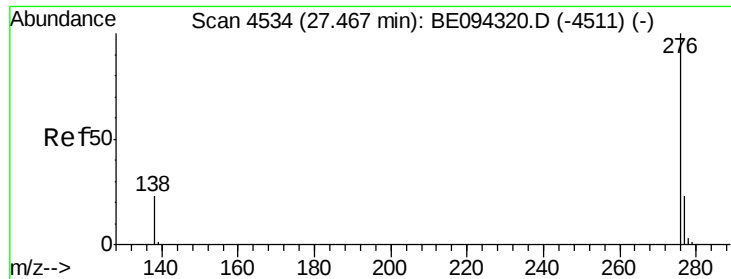
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#25  
 Dibenzo(a,h)anthracene  
 Concen: 0.45 ng/ul  
 RT: 26.70 min Scan# 4366  
 Delta R.T. 0.03 min  
 Lab File: BE094325.D  
 Acq: 13 Oct 2017 15:10

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 278     | 100   |            |            |
| 139     | 155.8 | 17.4       | 26.0       |
| 279     | 84.9  | 25.9       | 38.9       |





#26

Benzo(g,h,i)perylene

Concen: 1.38 ng/ul

RT: 27.56 min Scan# 4554

Delta R.T. 0.06 min

Lab File: BE094325.D

Acq: 13 Oct 2017 15:10

Instrument :

BNA\_E

ClientSampleID :

B-51(1-2)-092817DL

Tgt Ion: 276 Resp: 28434

Ion Ratio Lower Upper

276 100

138 51.5 21.8 32.8#

277 49.6 20.5 30.7#

Manual Integrations  
APPROVED

Sohil  
10/16/2017 8:22:41 PM

