

Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE100717\  
 Data File : BE094212.D  
 Acq On : 7 Oct 2017 21:01  
 Operator : SJ/JU  
 Sample : I5449-05DL 5X  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 B-60(5-7)-092617DL

Manual Integrations  
 APPROVED

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 10/9/2017 6:53:11 PM

Quant Time: Oct 08 02:24:05 2017  
 Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SOM-EPA-SIM-BE092017.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Sep 22 01:38:22 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.91  | 152  | 1189     | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.69 | 136  | 6561     | 0.40   | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.51 | 164  | 3729     | 0.40   | ng/ul  | -0.02    |
| 10) Phenanthrene-d10        | 17.24 | 188  | 8081     | 0.40   | ng/ul  | -0.04    |
| 16) Chrysene-d12            | 21.41 | 240  | 8073     | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.91 | 264  | 7556     | 0.40   | ng/ul  | -0.01    |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 12.28 | 152  | 428      | 0.04   | ng/ul  | -0.01    |
| 14) Fluoranthene-d10        | 19.27 | 212  | 1041     | 0.04   | ng/ul  | -0.02    |
| Target Compounds            |       |      |          | Qvalue |        |          |
| 3) Naphthalene              | 10.74 | 128  | 3717     | 0.23   | ng/ul# | 95       |
| 5) 2-Methylnaphthalene      | 12.35 | 142  | 1411     | 0.14   | ng/ul  | 96       |
| 7) Acenaphthylene           | 14.24 | 152  | 1224     | 0.08   | ng/ul# | 87       |
| 8) Acenaphthene             | 14.57 | 153  | 1066     | 0.09   | ng/ul  | 95       |
| 9) Fluorene                 | 15.56 | 166  | 1480     | 0.11   | ng/ul  | 92       |
| 12) Phenanthrene            | 17.29 | 178  | 39426m   | 1.87   | ng/ul  |          |
| 13) Anthracene              | 17.38 | 178  | 8703     | 0.42   | ng/ul  | 95       |
| 15) Fluoranthene            | 19.30 | 202  | 75092    | 2.71   | ng/ul  | 84       |
| 17) Pyrene                  | 19.66 | 202  | 70844    | 3.15   | ng/ul# | 81       |
| 18) Benzo(a)anthracene      | 21.39 | 228  | 40786    | 1.90   | ng/ul# | 88       |
| 19) Chrysene                | 21.45 | 228  | 41138    | 1.66   | ng/ul  | 96       |
| 21) Benzo(b)fluoranthene    | 23.15 | 252  | 54522m   | 2.66   | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 23.19 | 252  | 15982m   | 0.67   | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.80 | 252  | 37249    | 1.75   | ng/ul# | 89       |
| 24) Indeno(1,2,3-cd)pyrene  | 26.56 | 276  | 26637    | 1.22   | ng/ul# | 78       |
| 25) Dibenzo(a,h)anthracene  | 26.57 | 278  | 7060     | 0.39   | ng/ul# | 68       |
| 26) Benzo(g,h,i)perylene    | 27.39 | 276  | 24930    | 1.32   | ng/ul  | 97       |

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

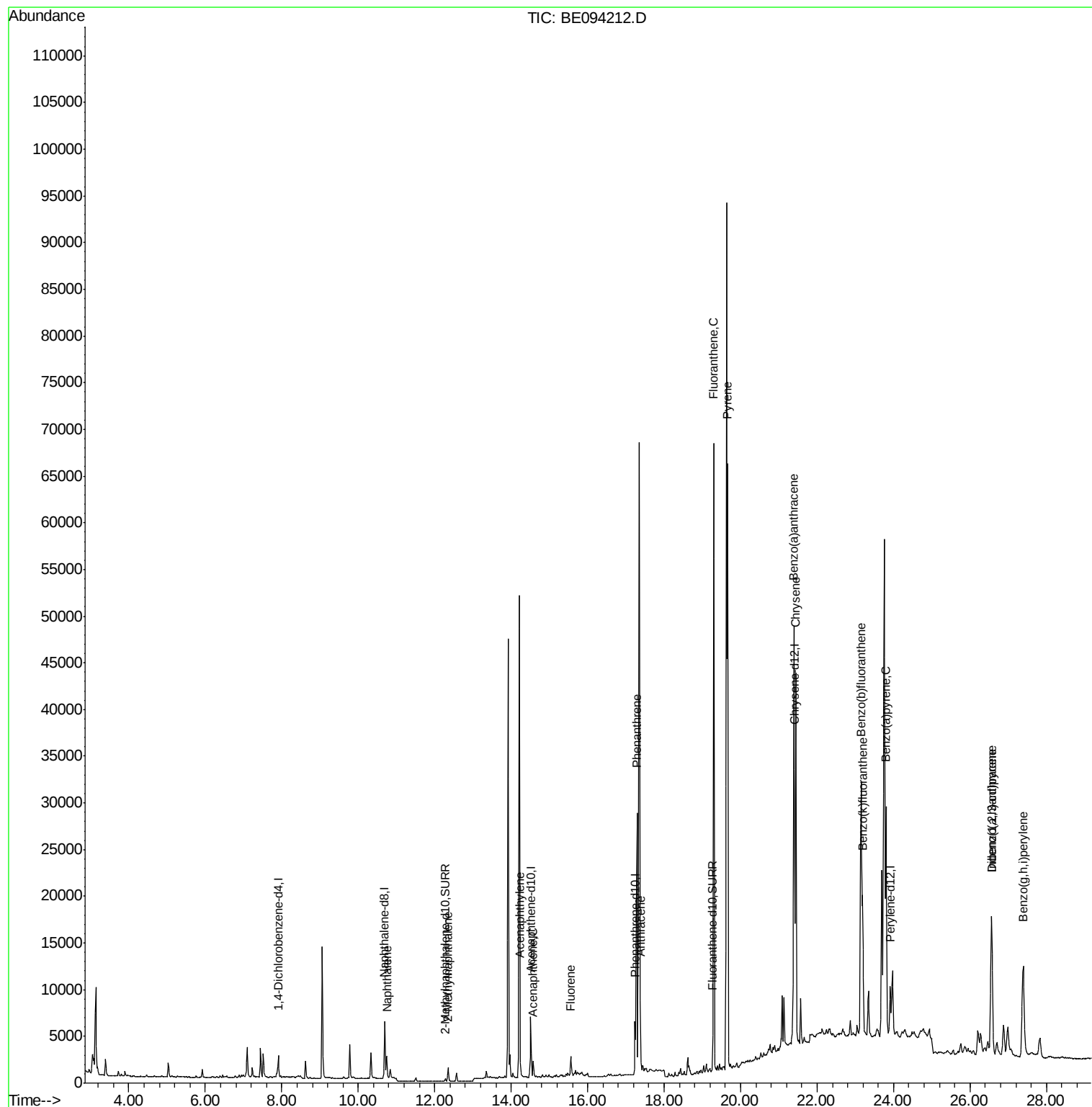
Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE100717\  
Data File : BE094212.D  
Acq On : 7 Oct 2017 21:01  
Operator : SJ/JU  
Sample : I5449-05DL 5X  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

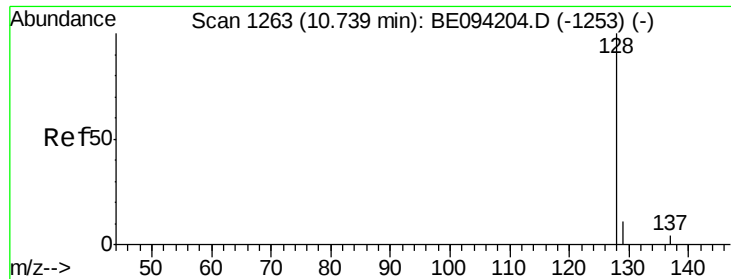
Instrument :  
BNA\_E  
ClientSampleId :  
B-60(5-7)-092617DL

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Quant Time: Oct 08 02:24:05 2017  
Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SOM-EPA-SIM-BE092017.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Sep 22 01:38:22 2017  
Response via : Initial Calibration





#3

Naphthalene

Concen: 0.23 ng/ul

RT: 10.74 min Scan# 1264

Delta R.T. -0.00 min

Lab File: BE094212.D

Acq: 7 Oct 2017 21:01

Instrument :

BNA\_E

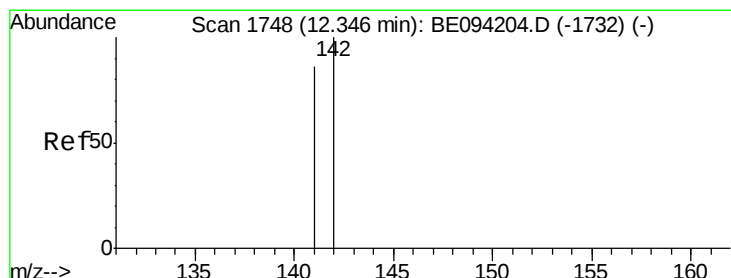
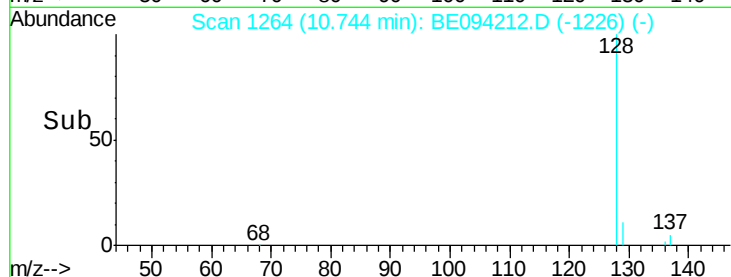
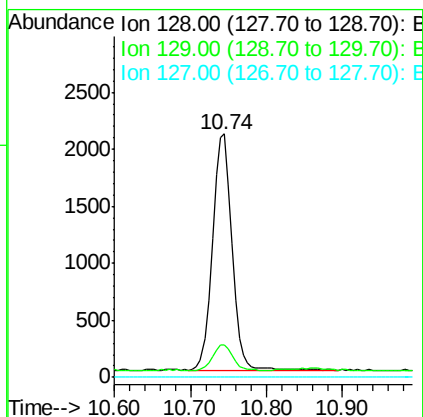
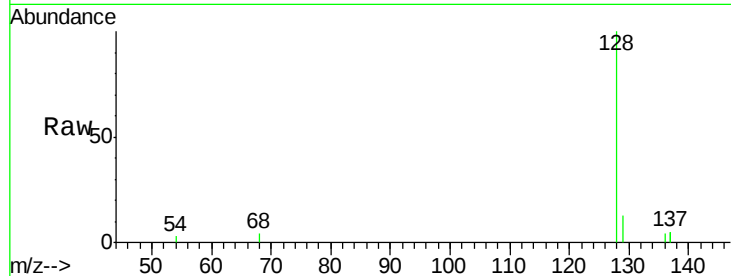
ClientSampleId :

B-60(5-7)-092617DL

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 128   | Resp: | 3717 |
| Ion Ratio | Lower | Upper |      |
| 128       | 100   |       |      |
| 129       | 13.5  | 11.3  | 16.9 |
| 127       | 0.0   | 4.0   | 6.0  |

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#5

2-Methylnaphthalene

Concen: 0.14 ng/ul

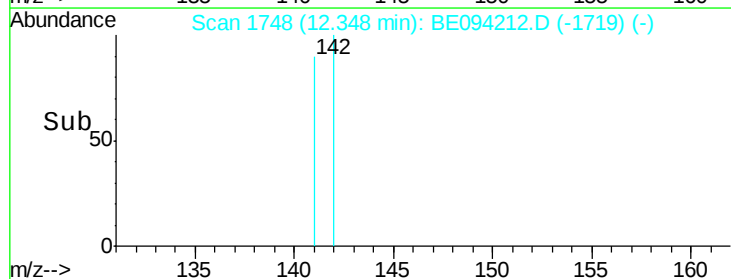
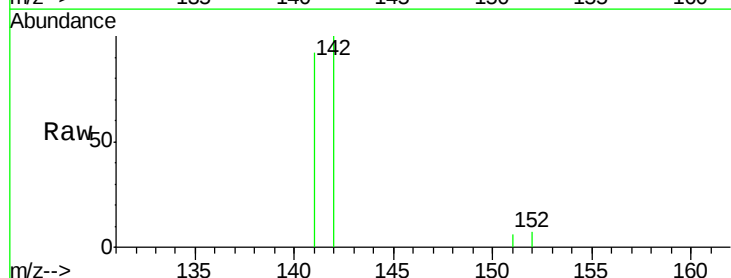
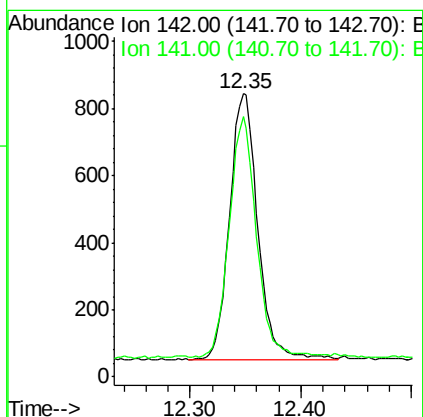
RT: 12.35 min Scan# 1748

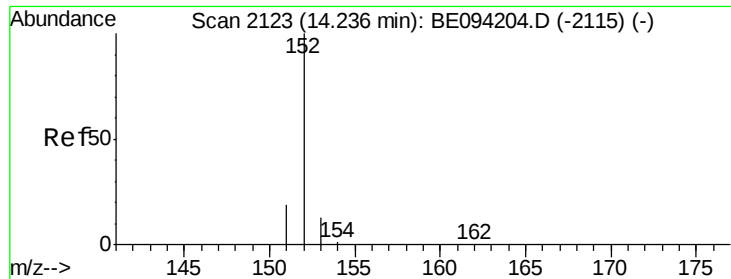
Delta R.T. -0.01 min

Lab File: BE094212.D

Acq: 7 Oct 2017 21:01

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 142   | Resp: | 1411  |
| Ion Ratio | Lower | Upper |       |
| 142       | 100   |       |       |
| 141       | 87.1  | 72.6  | 108.8 |





#7

Acenaphthylene

Concen: 0.08 ng/ul

RT: 14.24 min Scan# 2123

Delta R.T. -0.02 min

Lab File: BE094212.D

Acq: 7 Oct 2017 21:01

Instrument :

BNA\_E

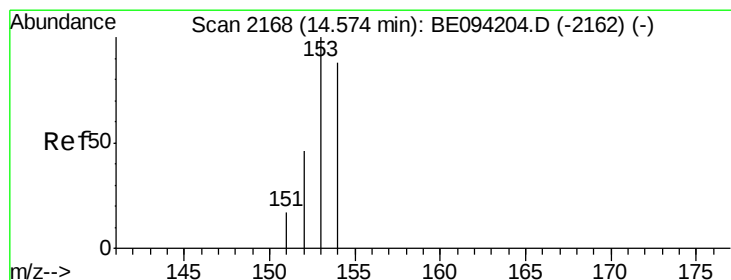
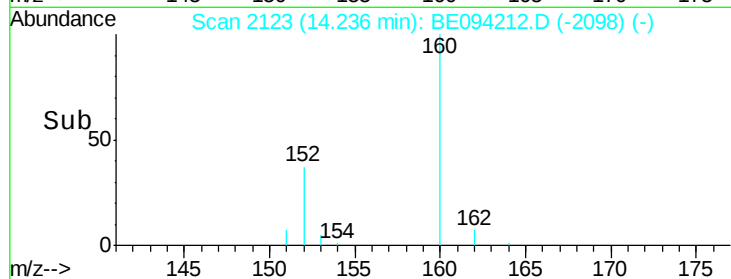
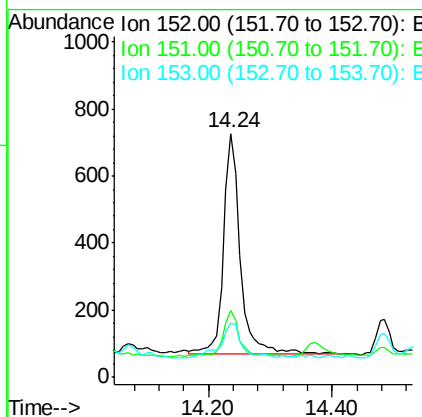
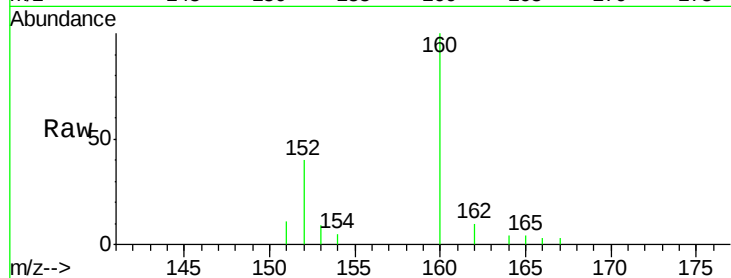
ClientSampleId :

B-60(5-7)-092617DL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 27.3  | 17.1  | 25.7# |
| 153     | 22.2  | 12.8  | 19.2# |

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#8

Acenaphthene

Concen: 0.09 ng/ul

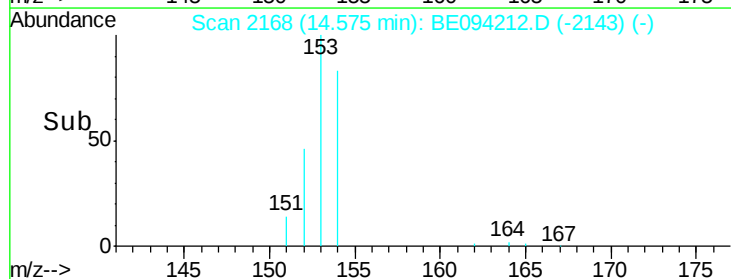
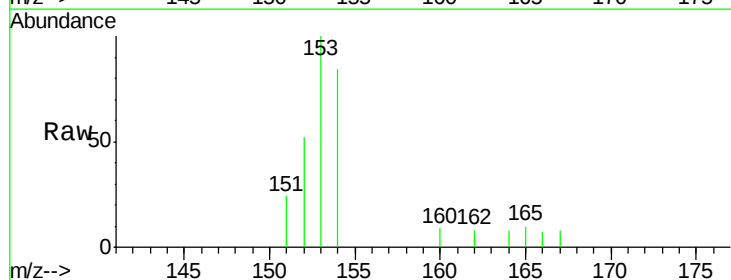
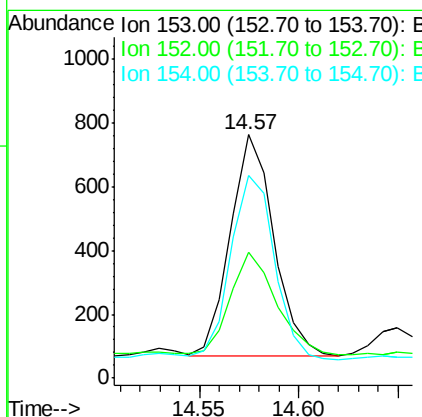
RT: 14.57 min Scan# 2168

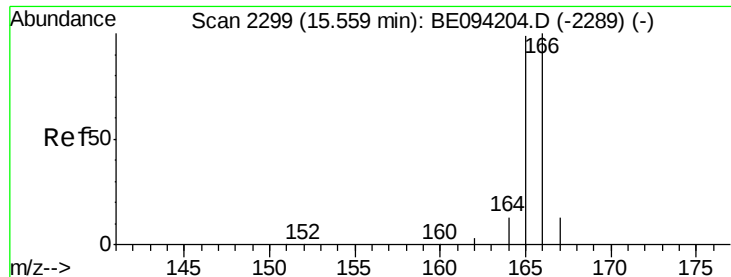
Delta R.T. -0.02 min

Lab File: BE094212.D

Acq: 7 Oct 2017 21:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 153     | 100   |       |       |
| 152     | 52.0  | 40.3  | 60.5  |
| 154     | 83.5  | 71.4  | 107.2 |





#9

Fluorene

Concen: 0.11 ng/ul

RT: 15.56 min Scan# 2299

Delta R.T. -0.02 min

Lab File: BE094212.D

Acq: 7 Oct 2017 21:01

Instrument :

BNA\_E

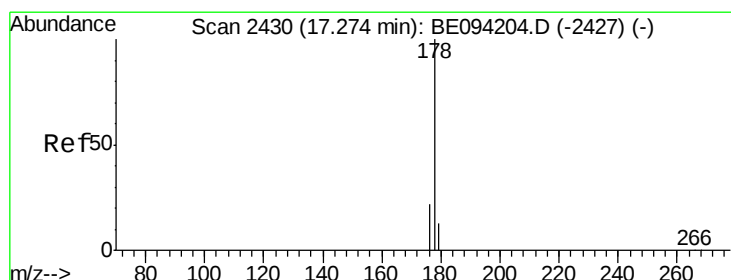
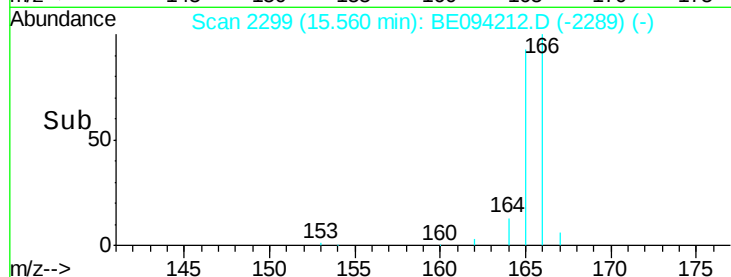
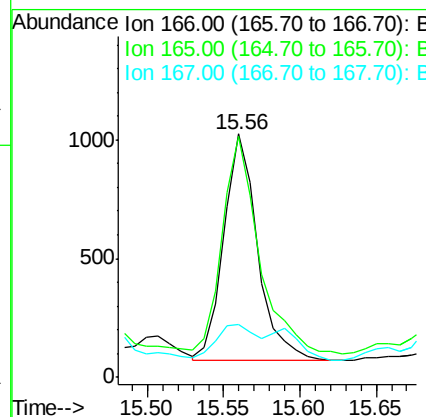
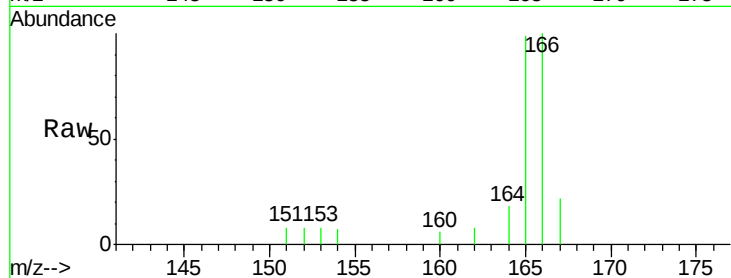
ClientSampleId :

B-60(5-7)-092617DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 166   | Resp: | 1480  |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 99.1  | 73.4  | 110.2 |
| 167       | 21.6  | 14.6  | 22.0  |

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#12

Phenanthrene

Concen: 1.87 ng/ul m

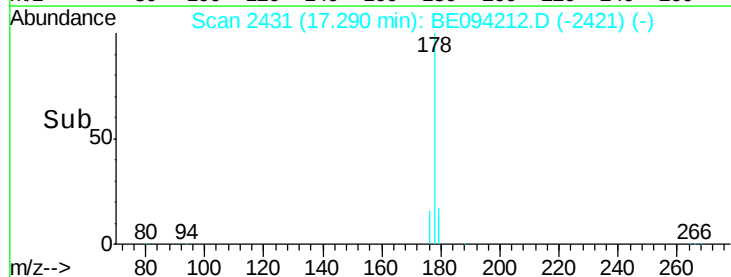
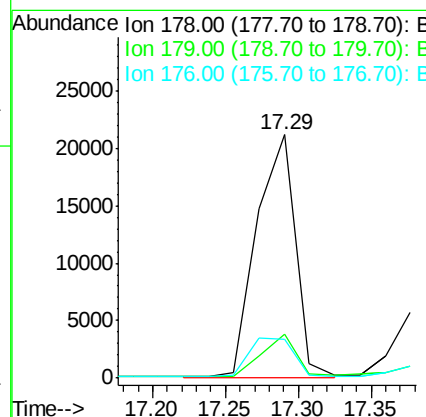
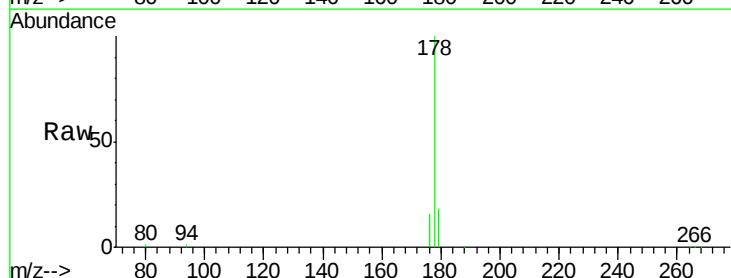
RT: 17.29 min Scan# 2431

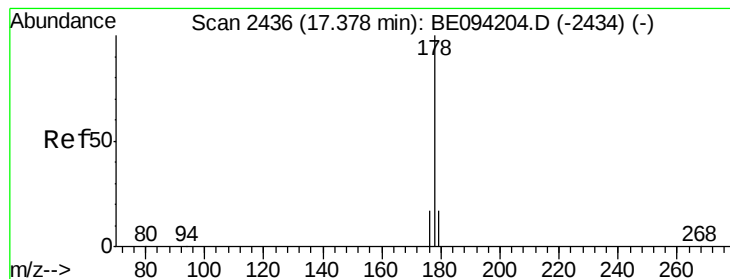
Delta R.T. -0.02 min

Lab File: BE094212.D

Acq: 7 Oct 2017 21:01

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 39426 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 179       | 17.9  | 18.4  | 27.6# |
| 176       | 15.9  | 13.6  | 20.4  |





#13

Anthracene

Concen: 0.42 ng/ul

RT: 17.38 min Scan# 2436

Delta R.T. -0.02 min

Lab File: BE094212.D

Acq: 7 Oct 2017 21:01

Instrument :

BNA\_E

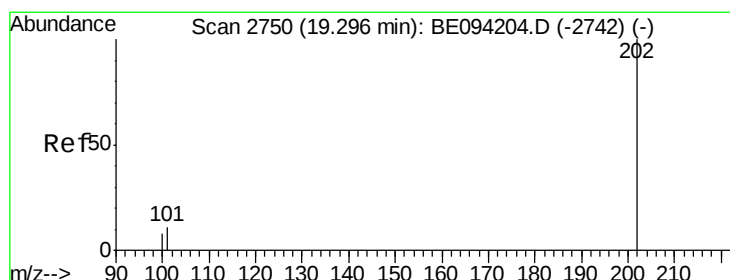
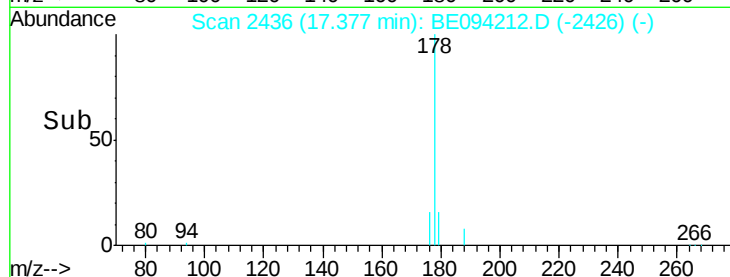
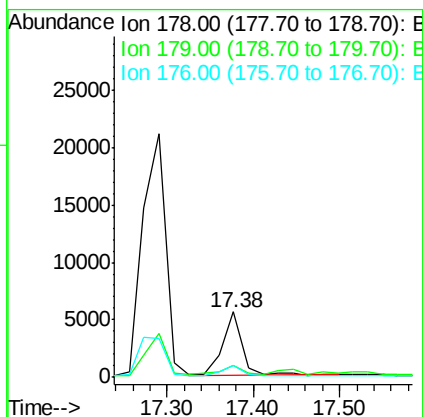
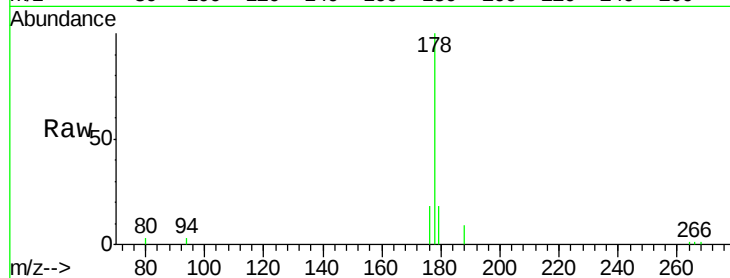
ClientSampleId :

B-60(5-7)-092617DL

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 178   | Resp: | 8703 |
| Ion Ratio | Lower | Upper |      |
| 178       | 100   |       |      |
| 179       | 18.5  | 18.1  | 27.1 |
| 176       | 17.9  | 14.7  | 22.1 |

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#15

Fluoranthene

Concen: 2.71 ng/ul

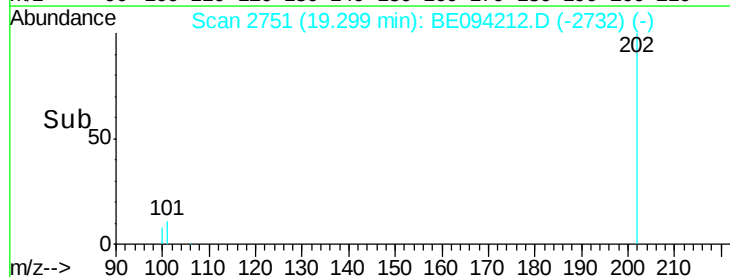
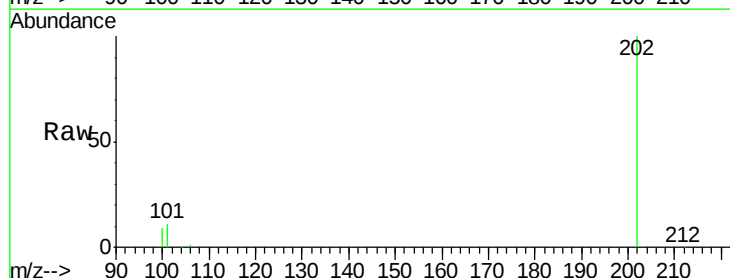
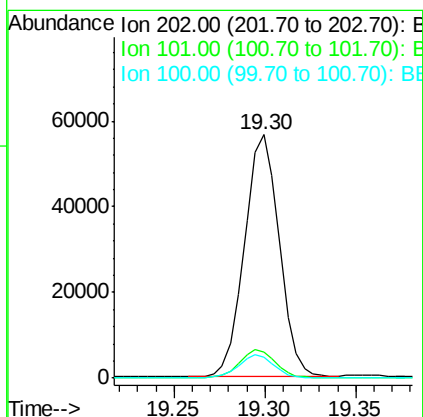
RT: 19.30 min Scan# 2751

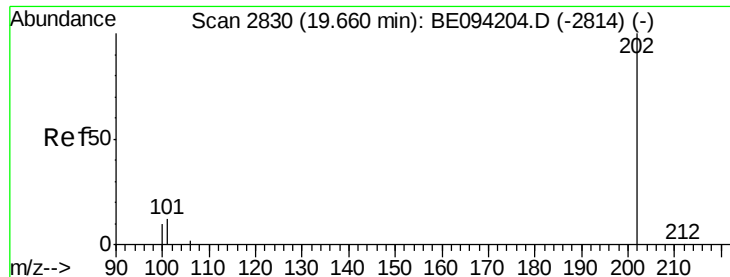
Delta R.T. -0.01 min

Lab File: BE094212.D

Acq: 7 Oct 2017 21:01

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 75092 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 10.9  | 0.0   | 30.3  |
| 100       | 8.6   | 0.0   | 39.5  |





#17

Pyrene

Concen: 3.15 ng/ul

RT: 19.66 min Scan# 2830

Delta R.T. -0.01 min

Lab File: BE094212.D

Acq: 7 Oct 2017 21:01

Instrument :

BNA\_E

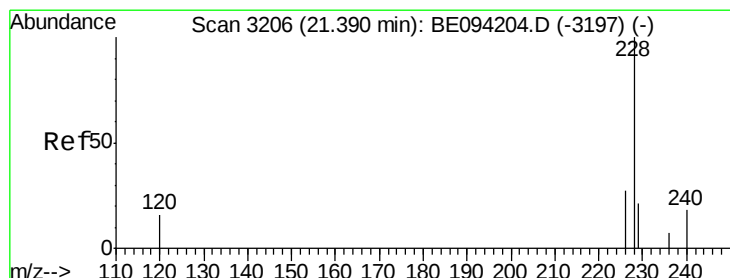
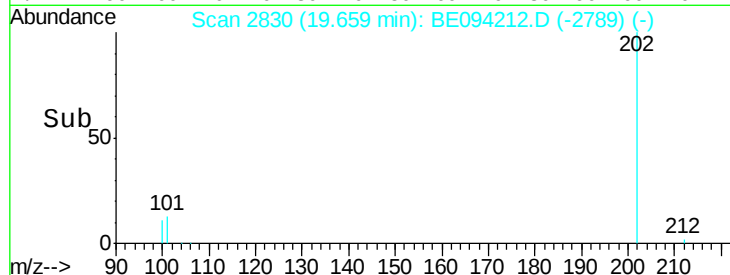
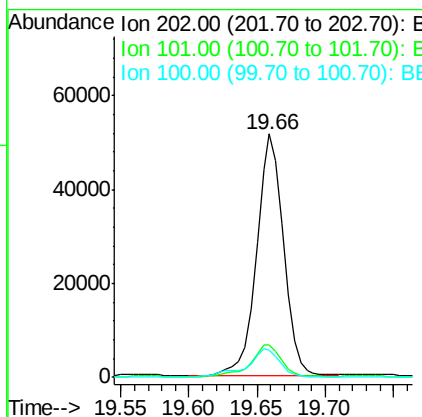
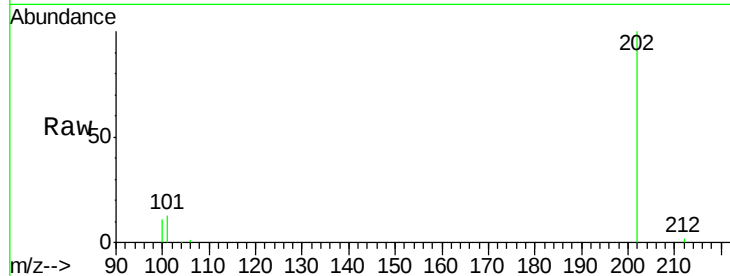
ClientSampleId :

B-60(5-7)-092617DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 70844 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 13.1  | 18.2  | 27.4# |
| 100       | 11.4  | 15.6  | 23.4# |

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#18

Benzo(a)anthracene

Concen: 1.90 ng/ul

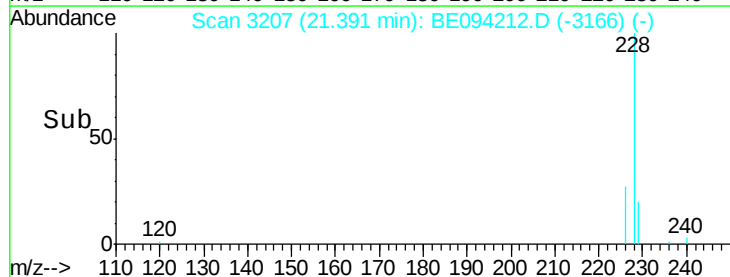
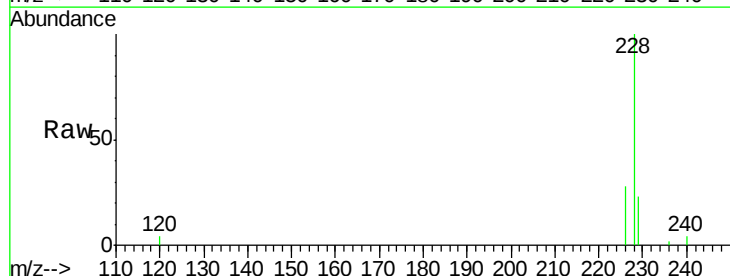
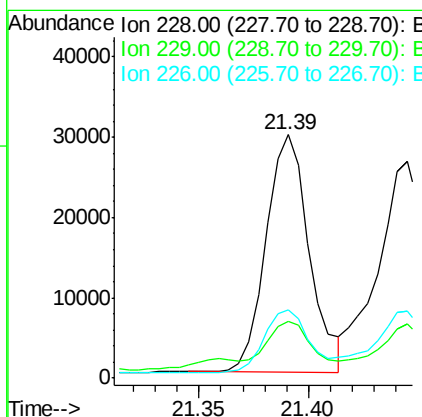
RT: 21.39 min Scan# 3207

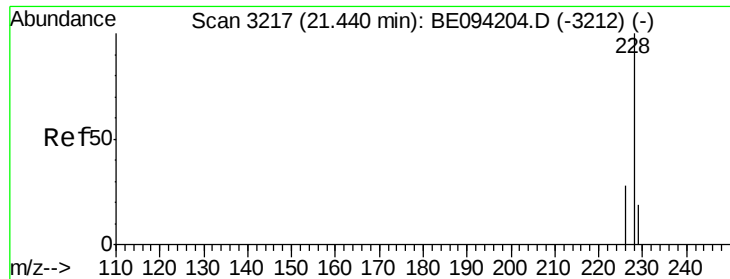
Delta R.T. -0.01 min

Lab File: BE094212.D

Acq: 7 Oct 2017 21:01

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 40786 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 229       | 23.4  | 22.8  | 34.2  |
| 226       | 28.2  | 17.0  | 25.6# |





#19

Chrysene

Concen: 1.66 ng/ul

RT: 21.45 min Scan# 3219

Delta R.T. -0.01 min

Lab File: BE094212.D

Acq: 7 Oct 2017 21:01

Instrument :

BNA\_E

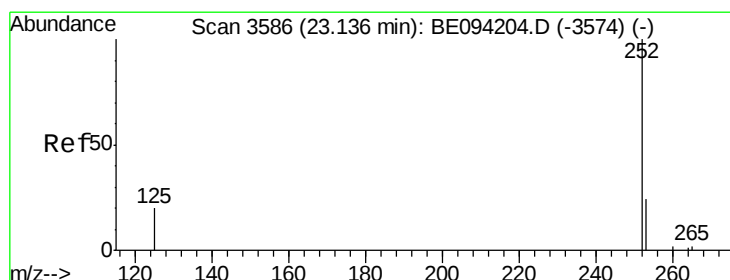
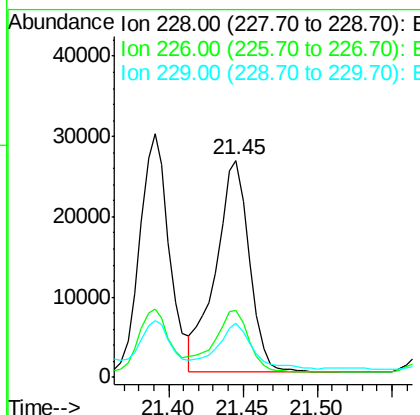
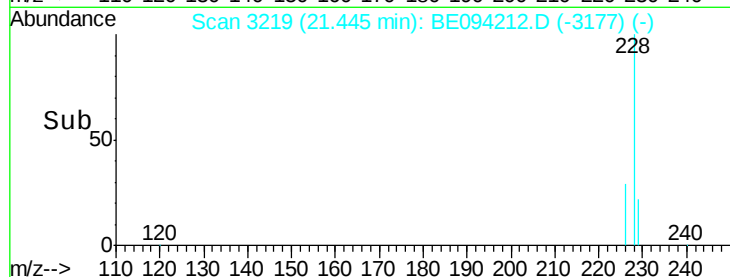
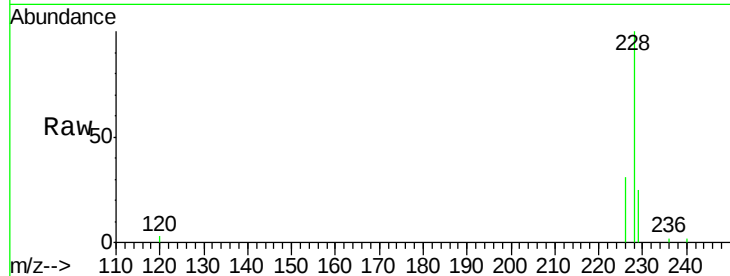
ClientSampleId :

B-60(5-7)-092617DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 41138 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 30.7  | 23.4  | 35.0  |
| 229       | 24.8  | 17.7  | 26.5  |

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#21

Benzo(b)fluoranthene

Concen: 2.66 ng/ul m

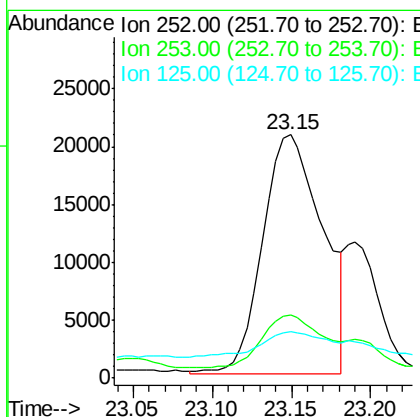
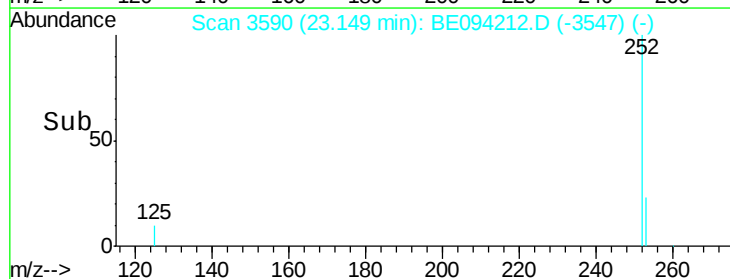
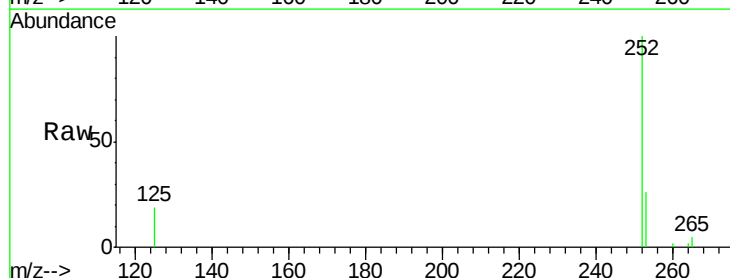
RT: 23.15 min Scan# 3590

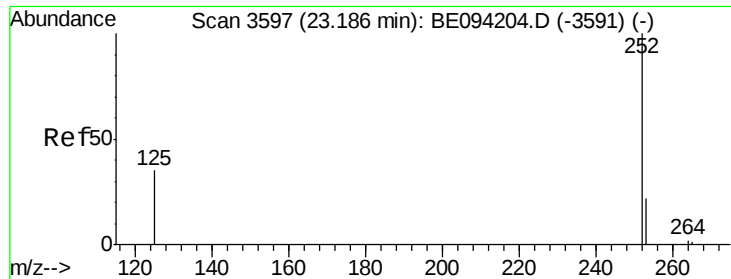
Delta R.T. -0.00 min

Lab File: BE094212.D

Acq: 7 Oct 2017 21:01

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 54522 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 26.0  | 0.0   | 64.2  |
| 125       | 18.8  | 0.0   | 35.0  |





#22

Benzo(k)fluoranthene

Concen: 0.67 ng/ul m

RT: 23.19 min Scan# 3599

Delta R.T. -0.01 min

Lab File: BE094212.D

Acq: 7 Oct 2017 21:01

Instrument :

BNA\_E

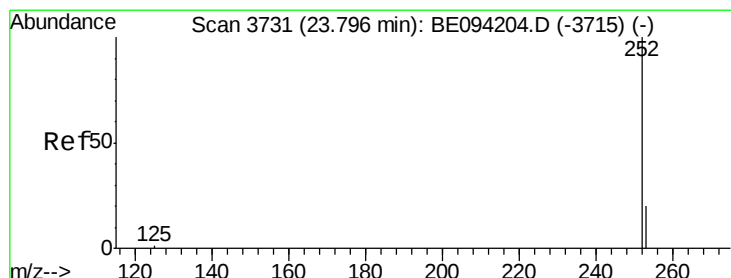
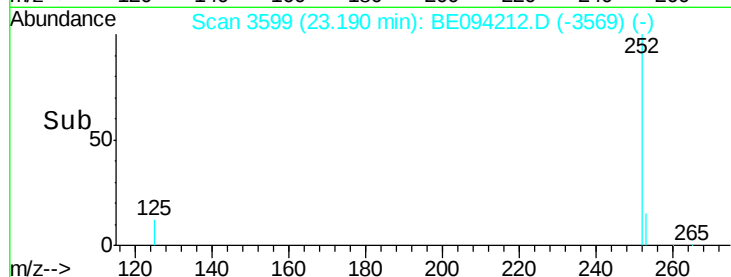
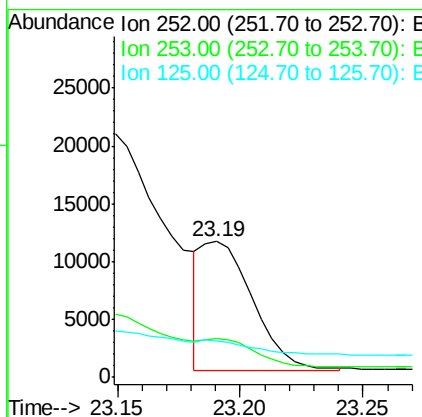
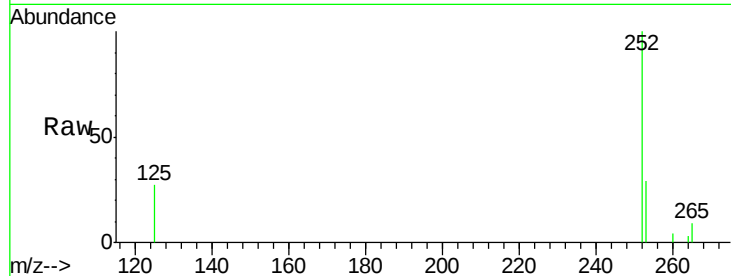
ClientSampleId :

B-60(5-7)-092617DL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 28.9  | 24.5  | 36.7  |
| 125     | 27.2  | 13.7  | 20.5# |

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#23

Benzo(a)pyrene

Concen: 1.75 ng/ul

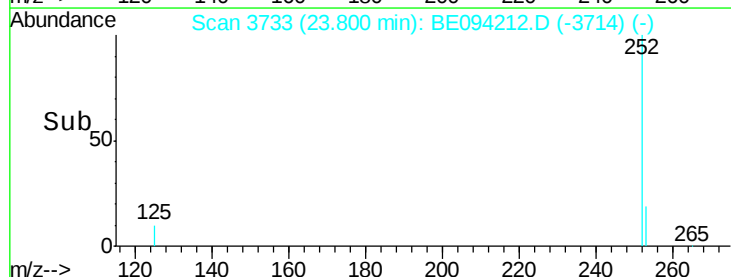
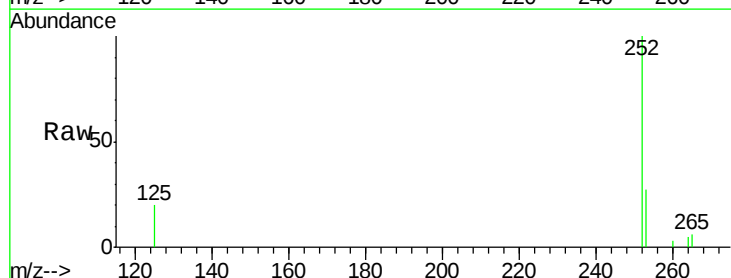
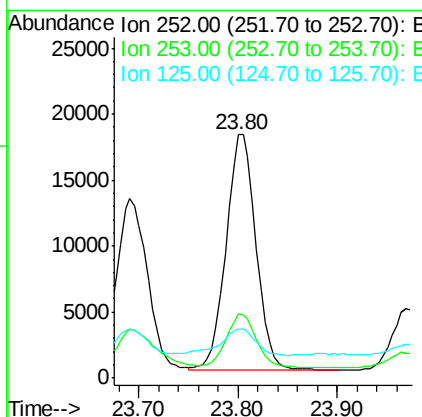
RT: 23.80 min Scan# 3733

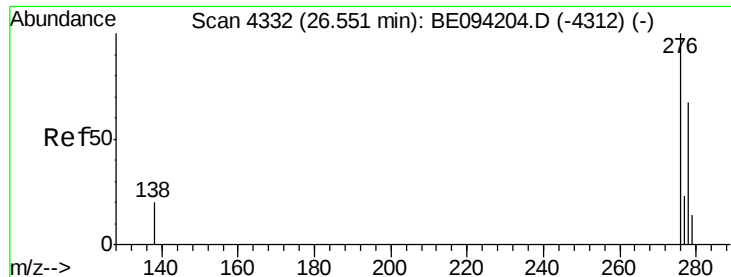
Delta R.T. -0.01 min

Lab File: BE094212.D

Acq: 7 Oct 2017 21:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 26.5  | 28.5  | 42.7# |
| 125     | 20.3  | 18.1  | 27.1  |





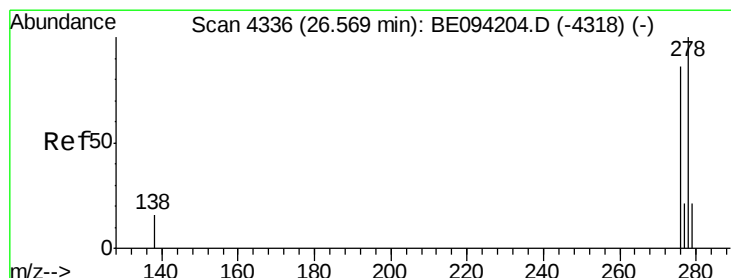
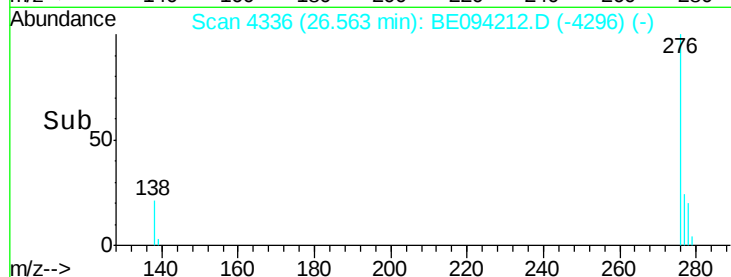
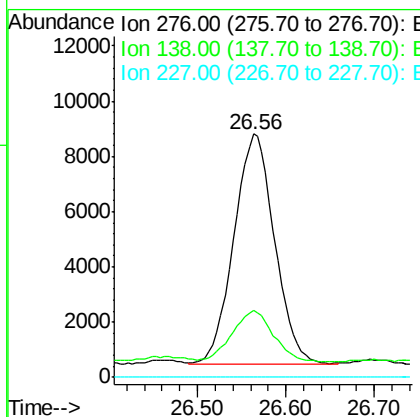
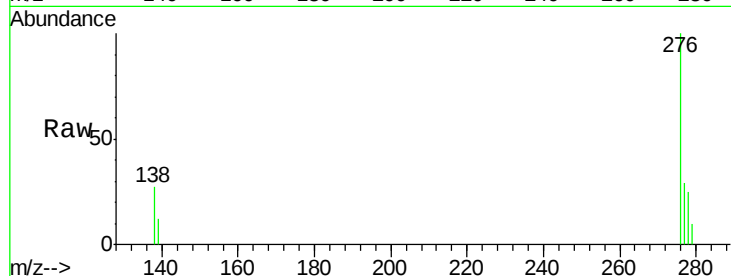
#24  
 Indeno(1,2,3-cd)pyrene  
 Concen: 1.22 ng/ul  
 RT: 26.56 min Scan# 4336  
 Delta R.T. -0.02 min  
 Lab File: BE094212.D  
 Acq: 7 Oct 2017 21:01

Instrument :  
 BNA\_E  
 ClientSampleId :  
 B-60(5-7)-092617DL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 22.7  | 28.0  | 42.0# |
| 227     | 0.0   | 8.0   | 12.0# |

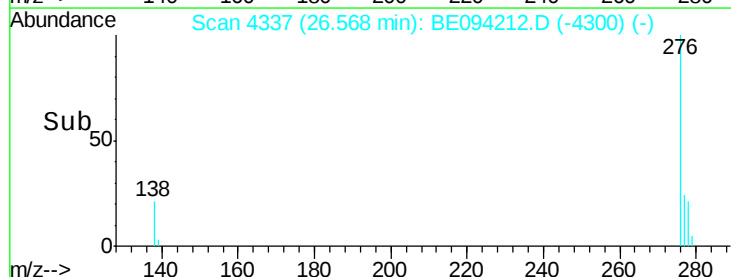
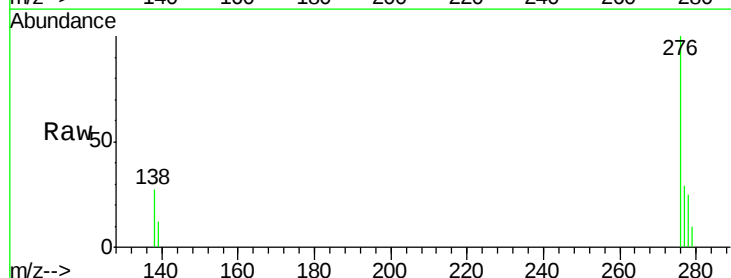
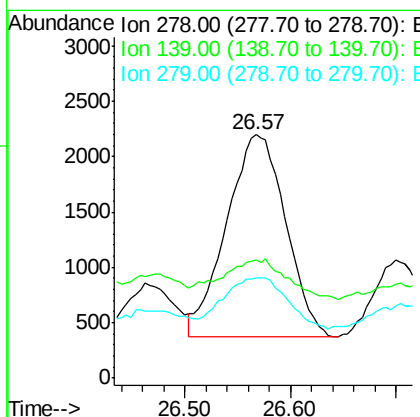
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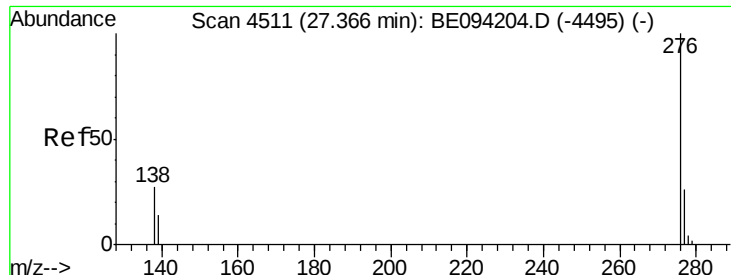
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#25  
 Dibenzo(a,h)anthracene  
 Concen: 0.39 ng/ul  
 RT: 26.57 min Scan# 4337  
 Delta R.T. -0.03 min  
 Lab File: BE094212.D  
 Acq: 7 Oct 2017 21:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 48.6  | 17.4  | 26.0# |
| 279     | 41.4  | 25.9  | 38.9# |





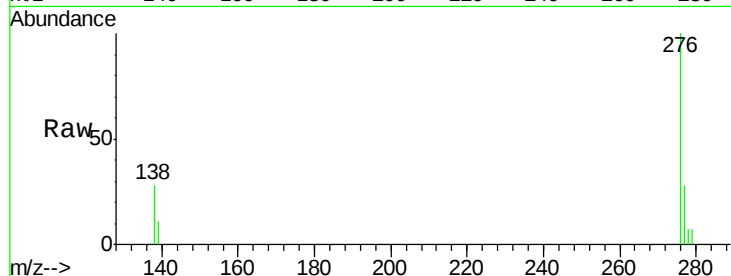
#26  
 Benzo(g,h,i)perylene  
 Concen: 1.32 ng/ul  
 RT: 27.39 min Scan# 4517  
 Delta R.T. -0.01 min  
 Lab File: BE094212.D  
 Acq: 7 Oct 2017 21:01

Instrument :  
 BNA\_E  
 ClientSampleId :  
 B-60(5-7)-092617DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 24930 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 28.4  | 21.8  | 32.8  |
| 277       | 28.0  | 20.5  | 30.7  |

Manual Integrations  
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Abundance Ion 276.00 (275.70 to 276.70): E  
 Ion 138.00 (137.70 to 138.70): E  
 Ion 277.00 (276.70 to 277.70): E

