

Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE061517\  
 Data File : BE093213.D  
 Acq On : 15 Jun 2017 18:05  
 Operator : SJ/MA  
 Sample : I3520-19DL 5X  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 F5B71DL

Manual Integrations  
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mohammad  
 6/19/2017 11:06:30 AM

Quant Time: Jun 16 05:03:17 2017  
 Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SOM-EPA-SIM-BE060717.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jun 16 04:43:11 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.74  | 152  | 2628     | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.52 | 136  | 14089    | 0.40   | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.37 | 164  | 8721     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 17.10 | 188  | 20406    | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.26 | 240  | 21196    | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.67 | 264  | 19341    | 0.40   | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 12.11 | 152  | 1012     | 0.05   | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 19.13 | 212  | 2661     | 0.05   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Qvalue |        |          |
| 3) Naphthalene              | 10.57 | 128  | 3418     | 0.098  | ng/ul# | 95       |
| 5) 2-Methylnaphthalene      | 12.18 | 142  | 814      | 0.034  | ng/ul  | 96       |
| 7) Acenaphthylene           | 14.09 | 152  | 10518    | 0.281  | ng/ul  | 96       |
| 8) Acenaphthene             | 14.43 | 153  | 606      | 0.020  | ng/ul  | 95       |
| 12) Phenanthrene            | 17.13 | 178  | 6290     | 0.112  | ng/ul# | 86       |
| 13) Anthracene              | 17.22 | 178  | 15311    | 0.313  | ng/ul# | 86       |
| 15) Fluoranthene            | 19.16 | 202  | 35136    | 0.510  | ng/ul  | 83       |
| 17) Pyrene                  | 19.52 | 202  | 53937    | 0.863  | ng/ul# | 83       |
| 18) Benzo(a)anthracene      | 21.24 | 228  | 36592    | 0.647  | ng/ul# | 84       |
| 19) Chrysene                | 21.30 | 228  | 47312    | 0.807  | ng/ul  | 98       |
| 21) Benzo(b)fluoranthene    | 22.94 | 252  | 104572m  | 1.782  | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 22.98 | 252  | 31084m   | 0.499  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.56 | 252  | 50952    | 0.918  | ng/ul# | 82       |
| 24) Indeno(1,2,3-cd)pyrene  | 26.18 | 276  | 40076    | 0.624  | ng/ul# | 86       |
| 25) Dibenzo(a,h)anthracene  | 26.20 | 278  | 10381    | 0.192  | ng/ul# | 85       |
| 26) Benzo(g,h,i)perylene    | 26.96 | 276  | 33889    | 0.615  | ng/ul  | 97       |

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

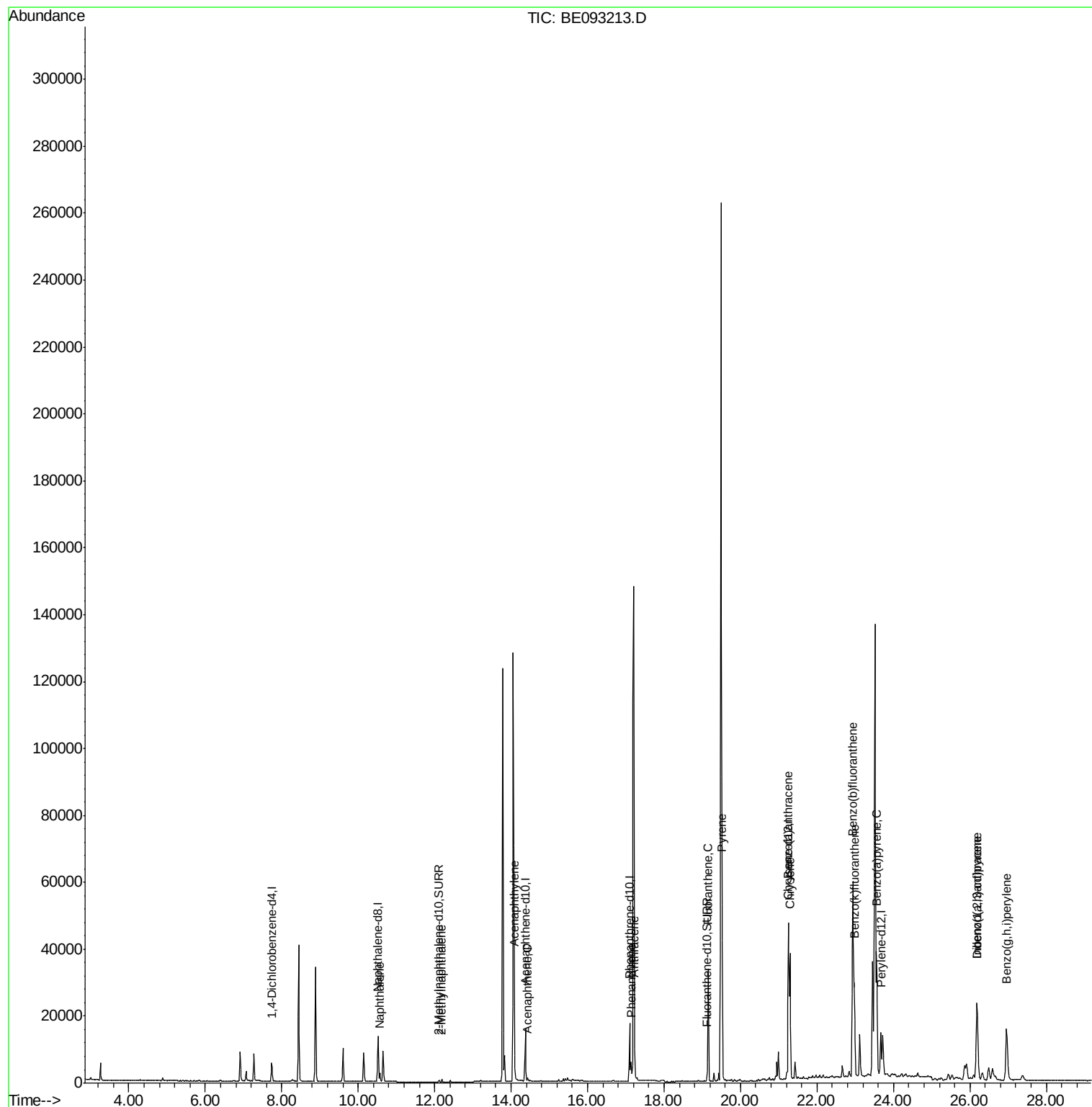
Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE061517\  
Data File : BE093213.D  
Acq On : 15 Jun 2017 18:05  
Operator : SJ/MA  
Sample : I3520-19DL 5X  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

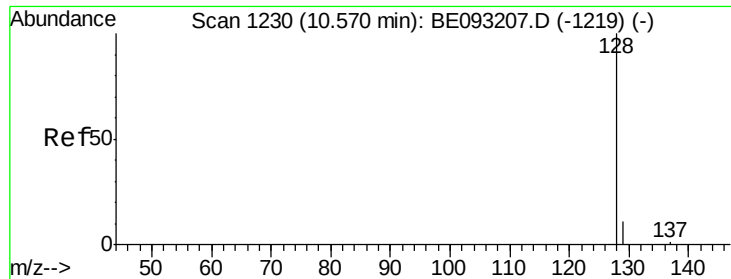
Instrument :  
BNA\_E  
ClientSampleId :  
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Quant Time: Jun 16 05:03:17 2017  
Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SOM-EPA-SIM-BE060717.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jun 16 04:43:11 2017  
Response via : Initial Calibration





#3

Naphthalene

Concen: 0.098 ng/ul

RT: 10.57 min Scan# 1230

Delta R.T. -0.00 min

Lab File: BE093213.D

Acq: 15 Jun 2017 18:05

Instrument :

BNA\_E

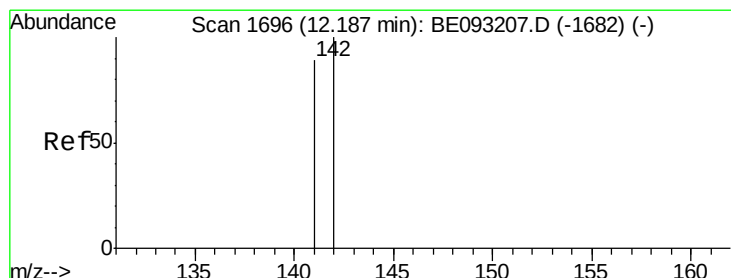
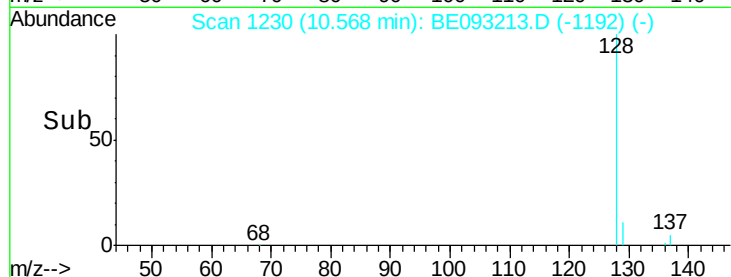
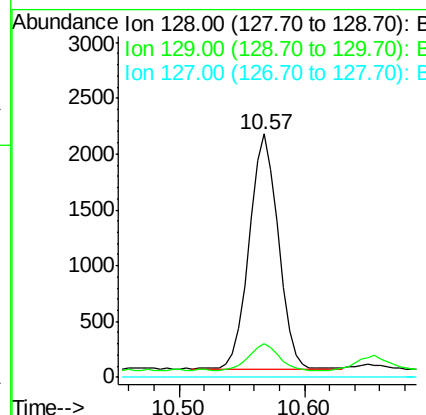
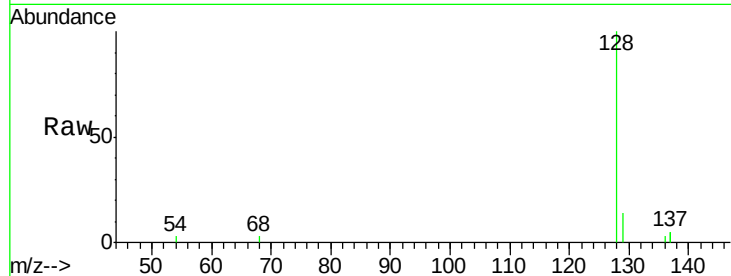
ClientSampleId :

F5B71DL

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 128   | Resp: | 3418 |
| Ion Ratio | Lower | Upper |      |
| 128       | 100   |       |      |
| 129       | 13.6  | 11.3  | 16.9 |
| 127       | 0.0   | 4.0   | 6.0  |

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#5

2-Methylnaphthalene

Concen: 0.034 ng/ul

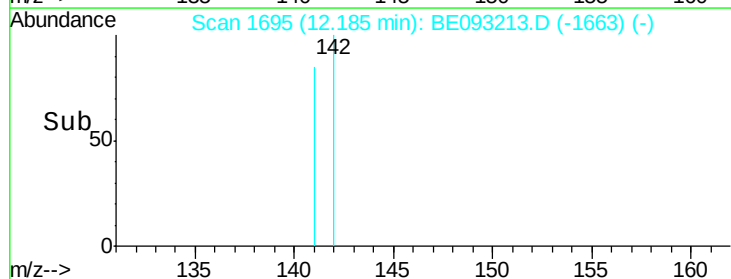
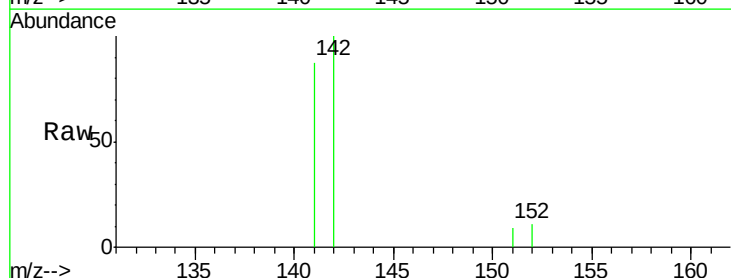
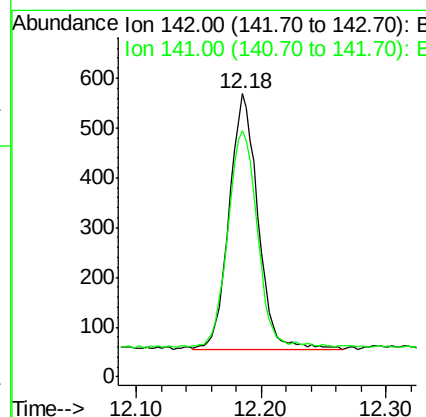
RT: 12.18 min Scan# 1695

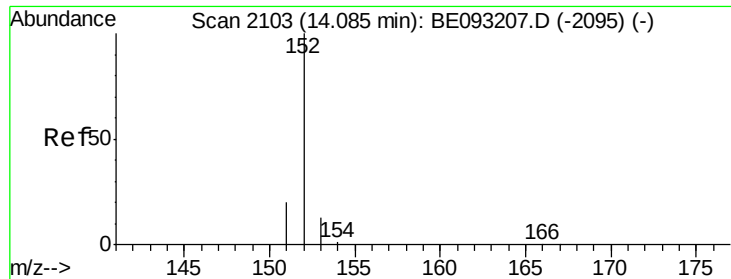
Delta R.T. -0.00 min

Lab File: BE093213.D

Acq: 15 Jun 2017 18:05

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 142   | Resp: | 814   |
| Ion Ratio | Lower | Upper |       |
| 142       | 100   |       |       |
| 141       | 86.6  | 72.6  | 108.8 |





#7

Acenaphthylene

Concen: 0.281 ng/ul

RT: 14.09 min Scan# 2103

Delta R.T. 0.00 min

Lab File: BE093213.D

Acq: 15 Jun 2017 18:05

Instrument :

BNA\_E

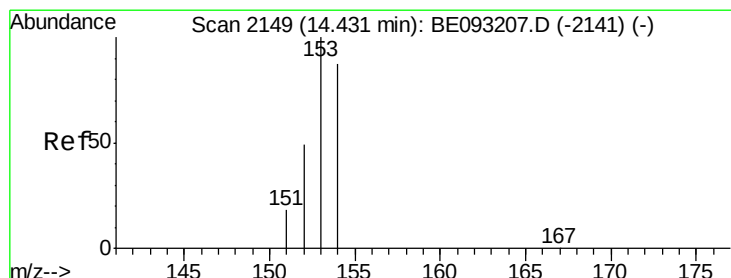
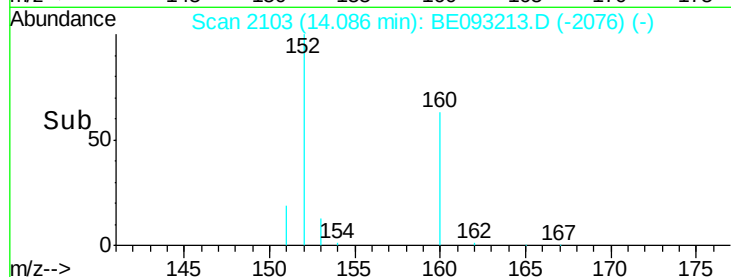
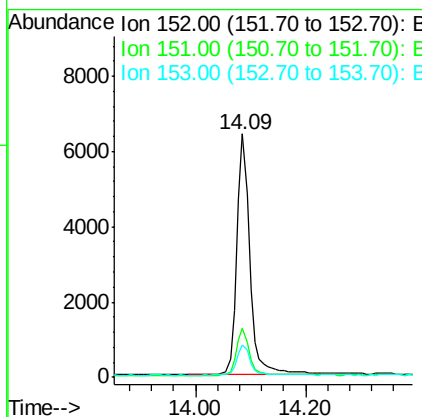
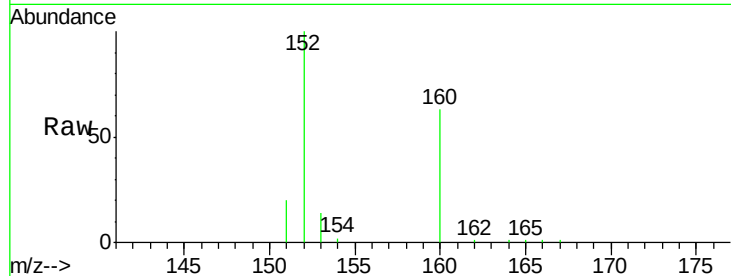
ClientSampleId :

F5B71DL

|           |      |       |       |
|-----------|------|-------|-------|
| Tgt Ion:  | 152  | Resp: | 10518 |
| Ion Ratio |      | Lower | Upper |
| 152       | 100  |       |       |
| 151       | 20.0 | 17.1  | 25.7  |
| 153       | 13.6 | 12.8  | 19.2  |

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#8

Acenaphthene

Concen: 0.020 ng/ul

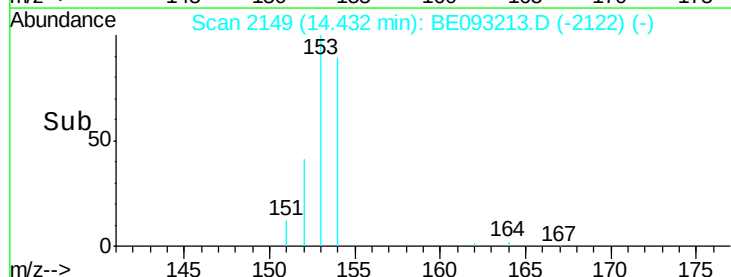
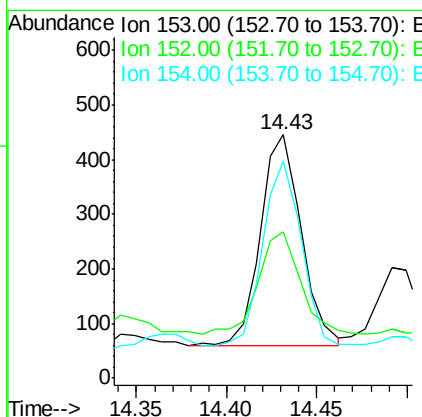
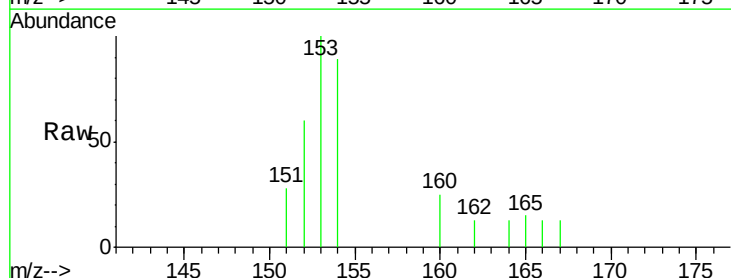
RT: 14.43 min Scan# 2149

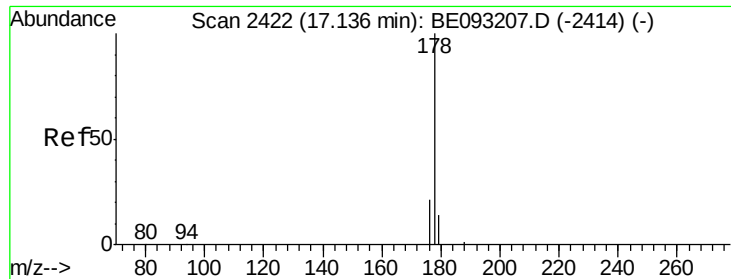
Delta R.T. 0.00 min

Lab File: BE093213.D

Acq: 15 Jun 2017 18:05

|           |      |       |       |
|-----------|------|-------|-------|
| Tgt Ion:  | 153  | Resp: | 606   |
| Ion Ratio |      | Lower | Upper |
| 153       | 100  |       |       |
| 152       | 59.9 | 40.3  | 60.5  |
| 154       | 89.0 | 71.4  | 107.2 |





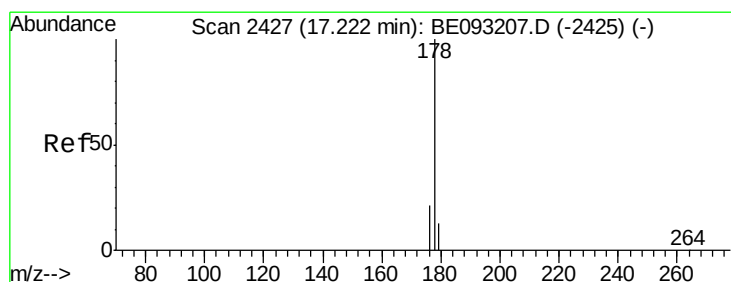
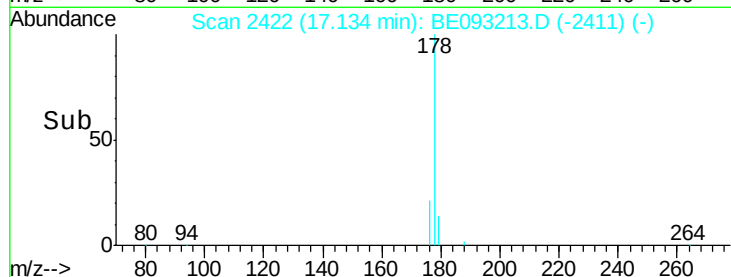
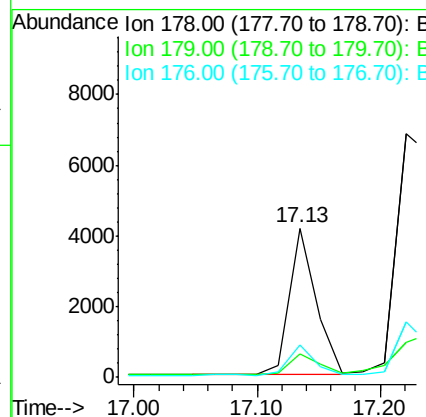
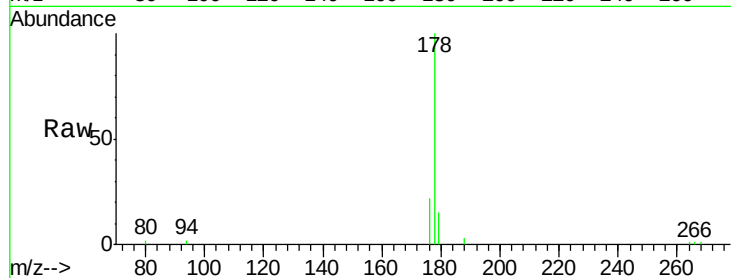
#12  
Phenanthrene  
Concen: 0.112 ng/ul  
RT: 17.13 min Scan# 2422  
Delta R.T. -0.00 min  
Lab File: BE093213.D  
Acq: 15 Jun 2017 18:05

Instrument :  
BNA\_E  
ClientSampleId :  
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Tgt Ion:178 Resp: 6290  
Ion Ratio Lower Upper  
178 100  
179 15.5 18.4 27.6#  
176 21.7 13.6 20.4#

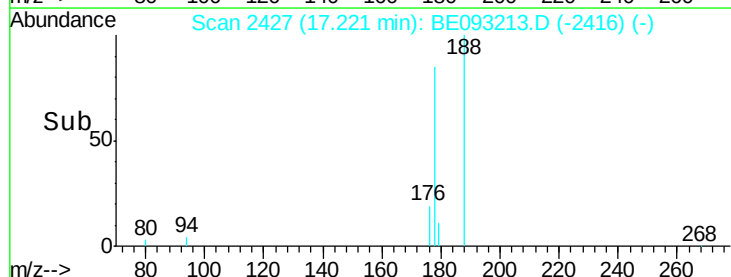
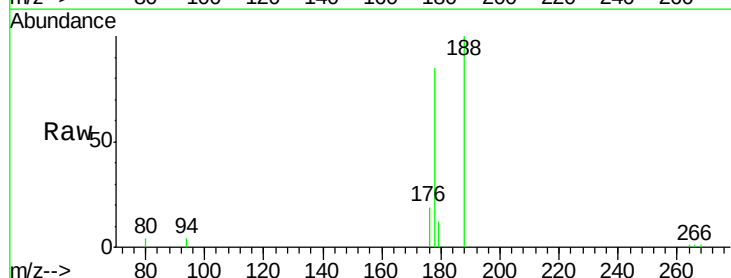
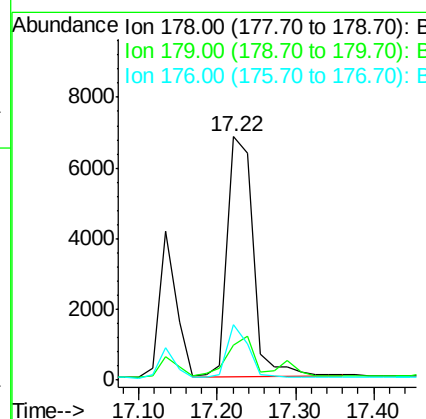
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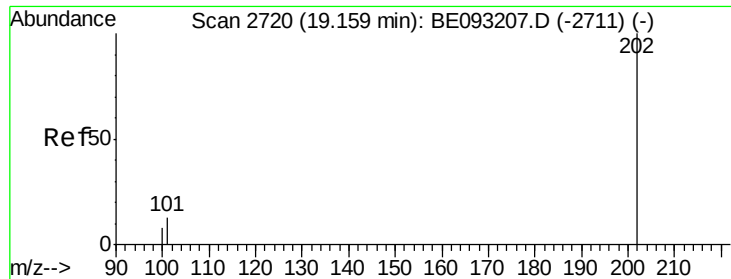
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#13  
Anthracene  
Concen: 0.313 ng/ul  
RT: 17.22 min Scan# 2427  
Delta R.T. -0.00 min  
Lab File: BE093213.D  
Acq: 15 Jun 2017 18:05

Tgt Ion:178 Resp: 15311  
Ion Ratio Lower Upper  
178 100  
179 14.3 18.1 27.1#  
176 22.7 14.7 22.1#





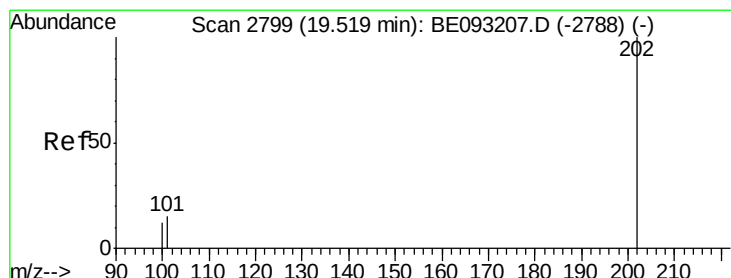
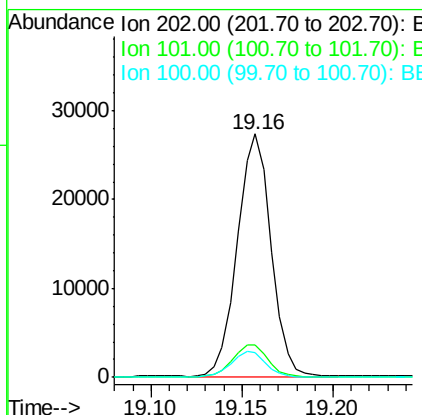
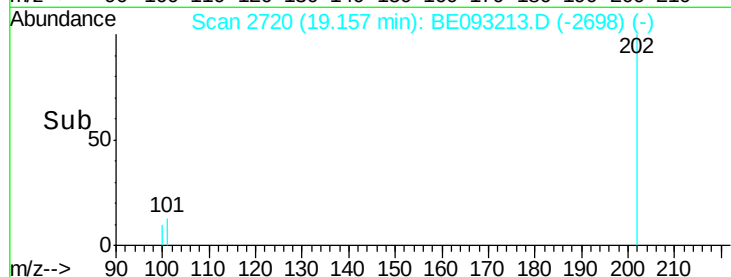
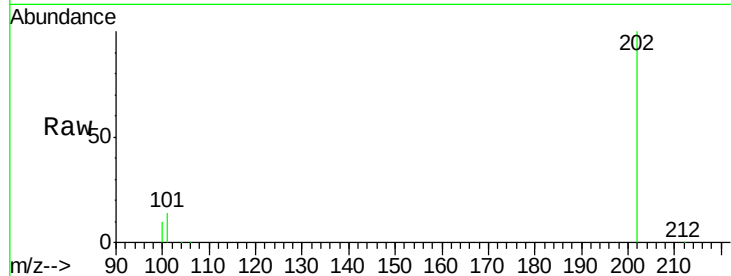
#15  
Fluoranthene  
Concen: 0.510 ng/ul  
RT: 19.16 min Scan# 2720  
Delta R.T. -0.00 min  
Lab File: BE093213.D  
Acq: 15 Jun 2017 18:05

Instrument :  
BNA\_E  
ClientSampleId :  
F5B71DL

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 202     | 100   |            |            |
| 101     | 13.5  | 0.0        | 30.3       |
| 100     | 10.0  | 0.0        | 39.5       |

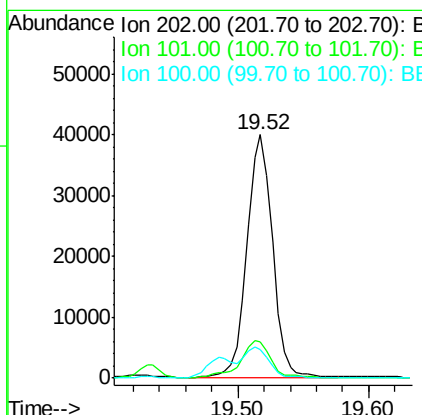
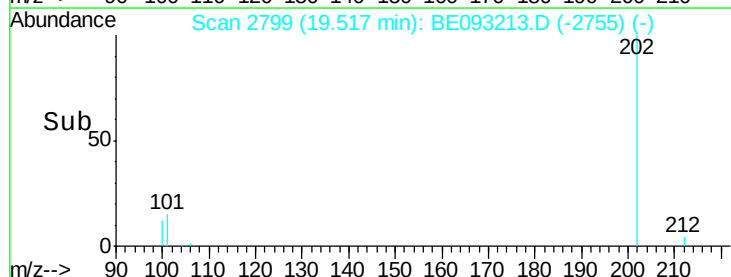
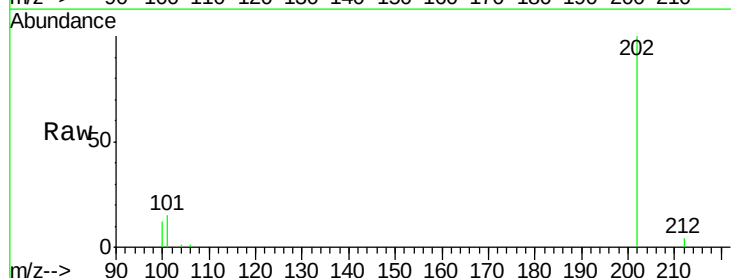
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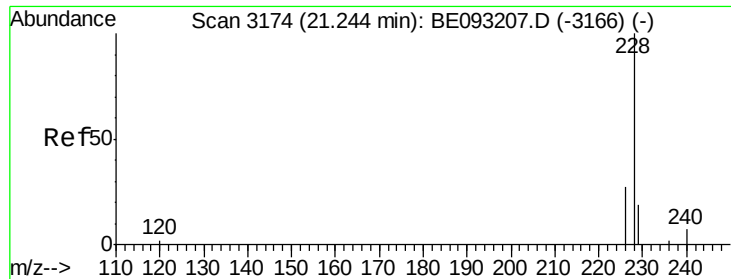
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#17  
Pyrene  
Concen: 0.863 ng/ul  
RT: 19.52 min Scan# 2799  
Delta R.T. -0.00 min  
Lab File: BE093213.D  
Acq: 15 Jun 2017 18:05

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 202     | 100   |            |            |
| 101     | 14.7  | 18.2       | 27.4#      |
| 100     | 11.9  | 15.6       | 23.4#      |





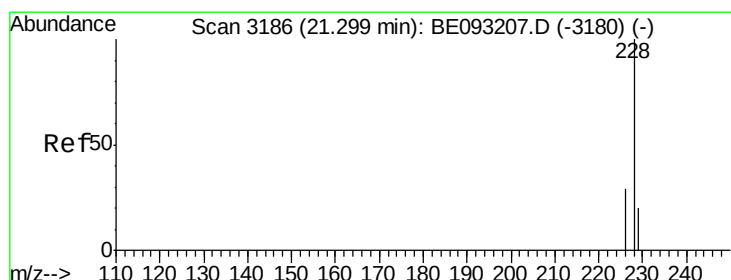
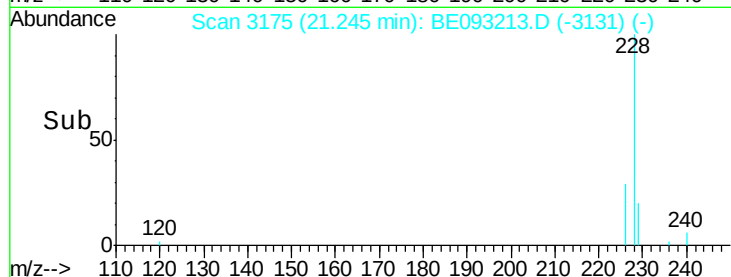
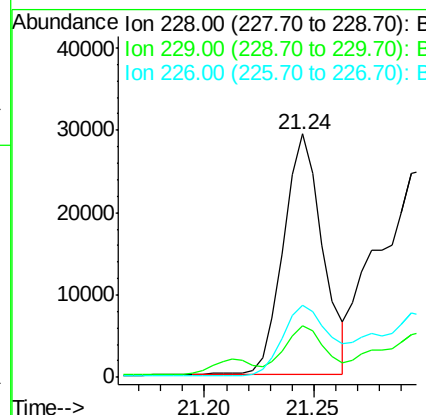
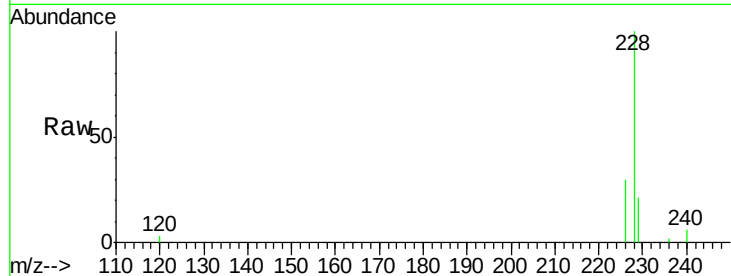
#18  
Benzo(a)anthracene  
Concen: 0.647 ng/ul  
RT: 21.24 min Scan# 3175  
Delta R.T. 0.00 min  
Lab File: BE093213.D  
Acq: 15 Jun 2017 18:05

Instrument :  
BNA\_E  
ClientSampleId :  
F5B71DL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 21.2  | 22.8  | 34.2# |
| 226     | 29.7  | 17.0  | 25.6# |

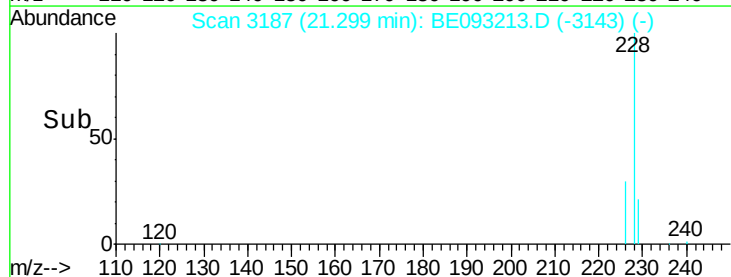
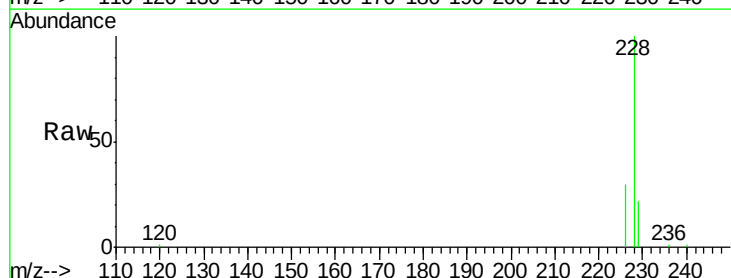
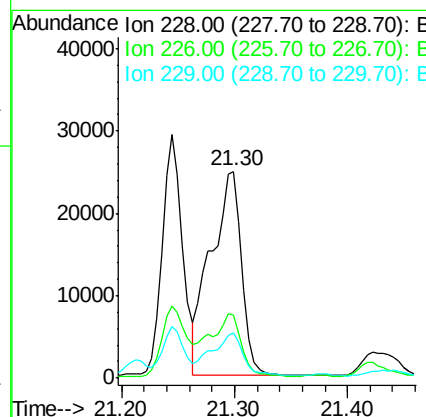
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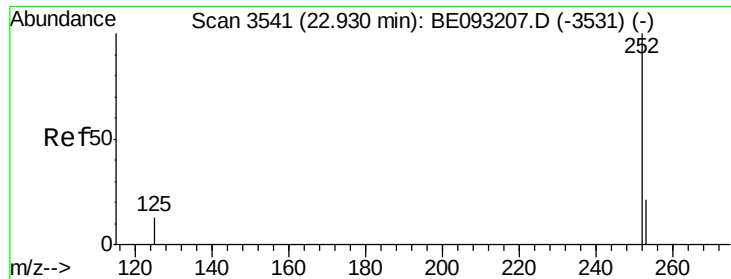
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#19  
Chrysene  
Concen: 0.807 ng/ul  
RT: 21.30 min Scan# 3187  
Delta R.T. 0.00 min  
Lab File: BE093213.D  
Acq: 15 Jun 2017 18:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.3  | 23.4  | 35.0  |
| 229     | 21.6  | 17.7  | 26.5  |





#21

Benzo(b)fluoranthene

Concen: 1.782 ng/ul m

RT: 22.94 min Scan# 3543

Delta R.T. 0.01 min

Lab File: BE093213.D

Acq: 15 Jun 2017 18:05

Instrument :

BNA\_E

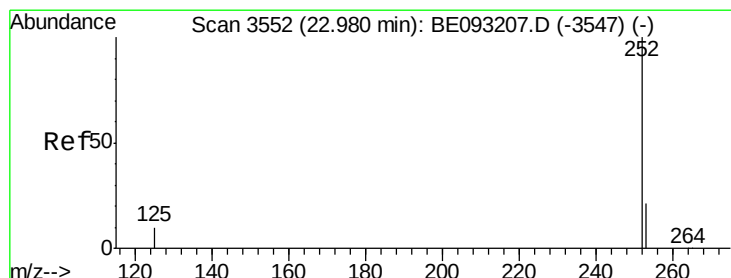
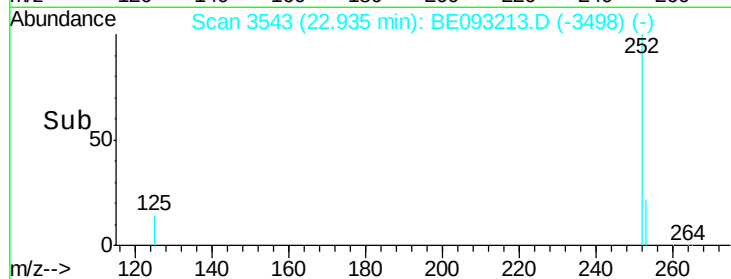
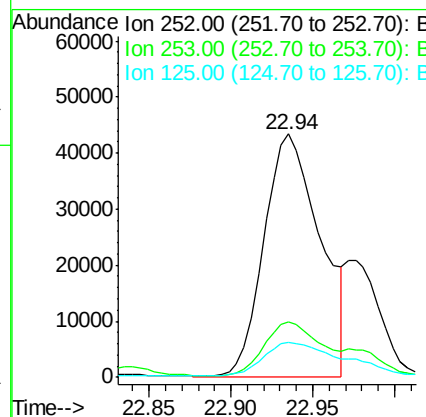
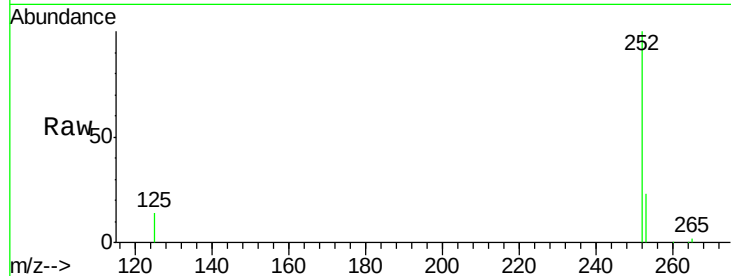
ClientSampleId :

F5B71DL

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 252     | 100   | 104572 |       |       |
| 253     | 22.6  | 0.0    | 64.2  |       |
| 125     | 14.4  | 0.0    | 35.0  |       |

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#22

Benzo(k)fluoranthene

Concen: 0.499 ng/ul m

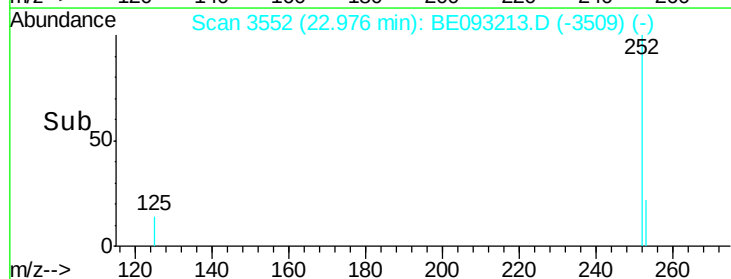
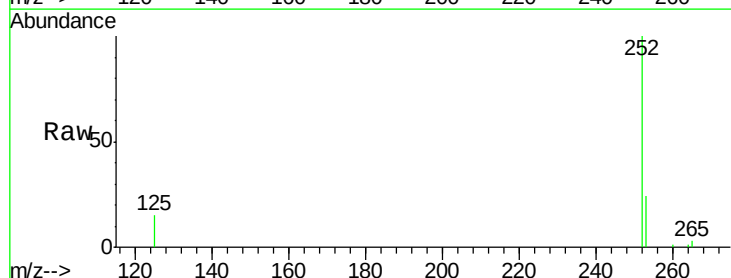
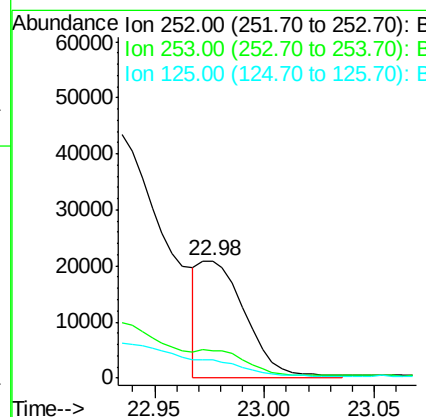
RT: 22.98 min Scan# 3552

Delta R.T. -0.00 min

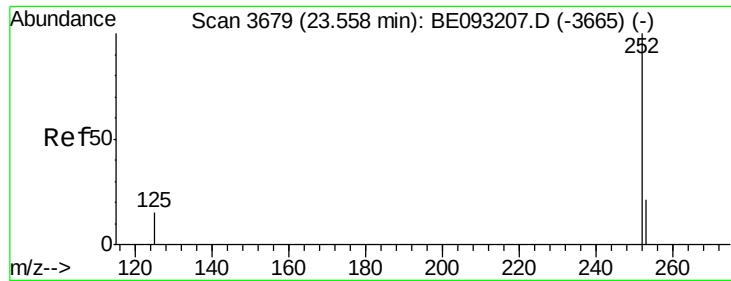
Lab File: BE093213.D

Acq: 15 Jun 2017 18:05

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 252     | 100   | 31084 |       |       |
| 253     | 23.7  | 24.5  | 36.7# |       |
| 125     | 15.1  | 13.7  | 20.5  |       |







#23

Benzo(a)pyrene

Concen: 0.918 ng/ul

RT: 23.56 min Scan# 3680

Delta R.T. 0.00 min

Lab File: BE093213.D

Acq: 15 Jun 2017 18:05

Instrument :

BNA\_E

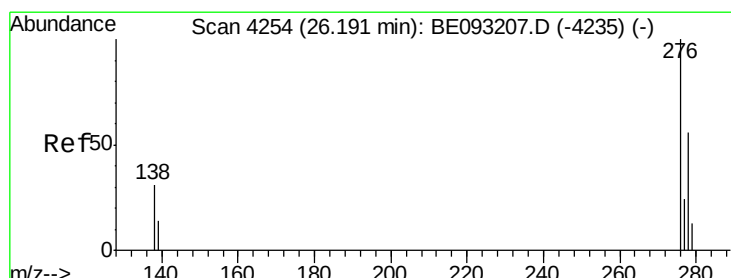
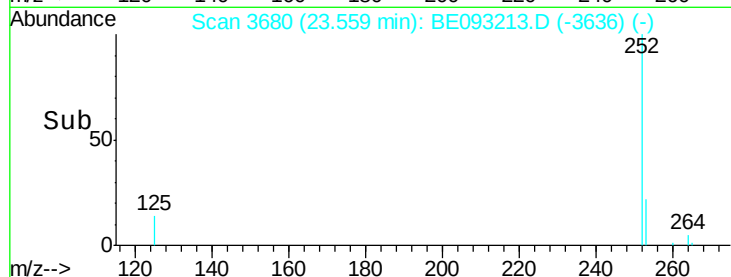
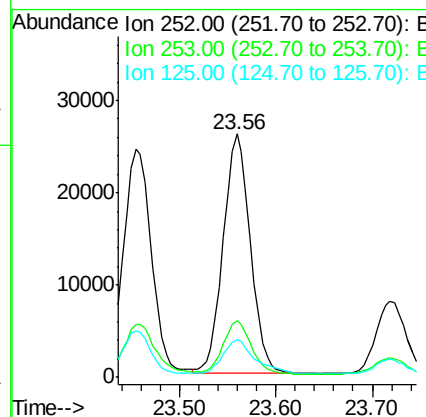
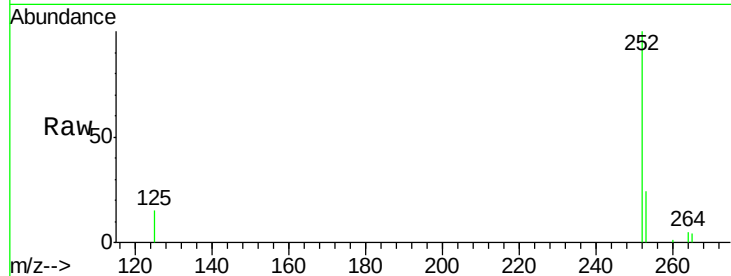
ClientSampleId :

F5B71DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 50952 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 23.5  | 28.5  | 42.7# |
| 125       | 15.5  | 18.1  | 27.1# |

Manual Integrations  
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#24

Indeno(1,2,3-cd)pyrene

Concen: 0.624 ng/ul

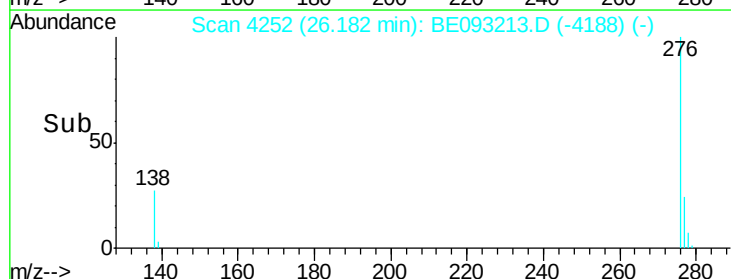
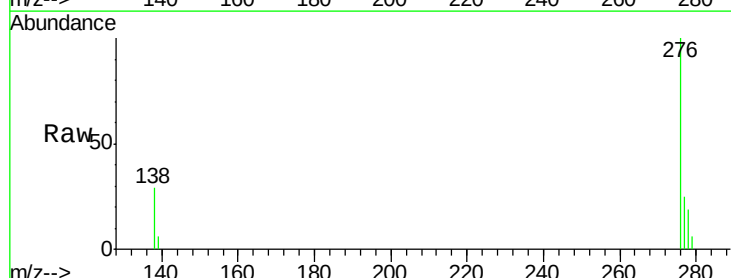
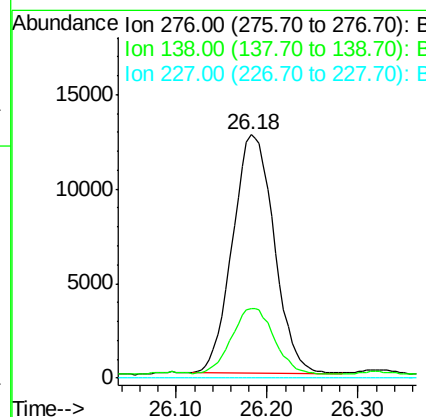
RT: 26.18 min Scan# 4252

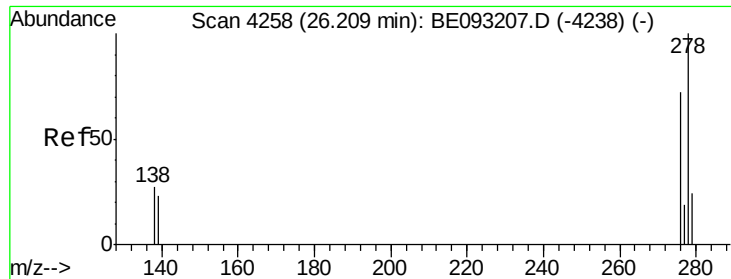
Delta R.T. -0.01 min

Lab File: BE093213.D

Acq: 15 Jun 2017 18:05

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 40076 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 28.8  | 28.0  | 42.0  |
| 227       | 0.0   | 8.0   | 12.0# |





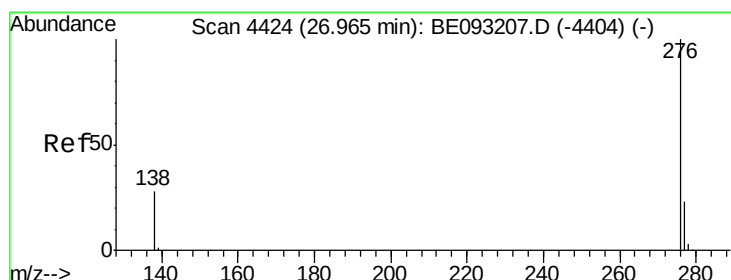
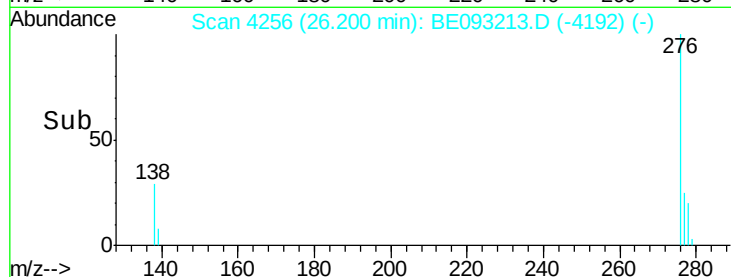
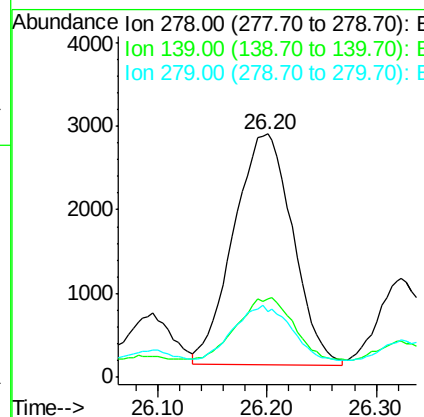
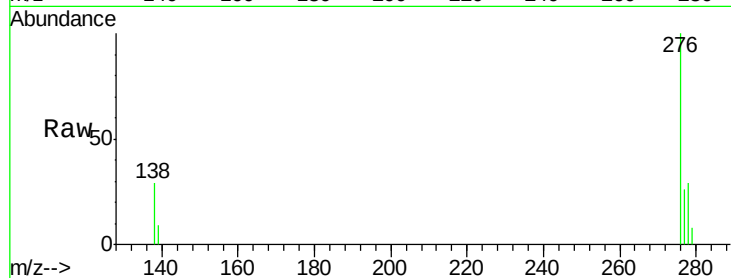
#25  
Dibenzo(a,h)anthracene  
Concen: 0.192 ng/ul  
RT: 26.20 min Scan# 4256  
Delta R.T. -0.01 min  
Lab File: BE093213.D  
Acq: 15 Jun 2017 18:05

Instrument :  
BNA\_E  
ClientSampleId :  
F5B71DL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 32.3  | 17.4  | 26.0# |
| 279     | 26.8  | 25.9  | 38.9  |

Manual Integrations  
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6/19/2017 11:06:30 AM



#26  
Benzo(g,h,i)perylene  
Concen: 0.615 ng/ul  
RT: 26.96 min Scan# 4423  
Delta R.T. -0.00 min  
Lab File: BE093213.D  
Acq: 15 Jun 2017 18:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 28.5  | 21.8  | 32.8  |
| 277     | 24.1  | 20.5  | 30.7  |

