

Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE061517\  
 Data File : BE093235.D  
 Acq On : 16 Jun 2017 9:57  
 Operator : SJ/MA  
 Sample : I3522-07DL 5X  
 Misc :  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 F5A62DL

Manual Integrations  
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mohammad  
 6/19/2017 11:07:38 AM

Quant Time: Jun 16 14:37:09 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 05:36:31 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.74  | 152  | 2232     | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.52 | 136  | 11206    | 0.40   | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.37 | 164  | 6391     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 17.10 | 188  | 15215    | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.26 | 240  | 17163    | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.67 | 264  | 14597    | 0.40   | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 12.11 | 152  | 601      | 0.04   | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 19.13 | 212  | 1824     | 0.04   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Qvalue |        |          |
| 3) Naphthalene              | 10.57 | 128  | 583      | 0.021  | ng/ul# | 75       |
| 5) 2-Methylnaphthalene      | 12.19 | 142  | 877      | 0.046  | ng/ul  | 99       |
| 7) Acenaphthylene           | 14.09 | 152  | 35460    | 1.293  | ng/ul  | 96       |
| 8) Acenaphthene             | 14.43 | 153  | 5986     | 0.271  | ng/ul  | 98       |
| 9) Fluorene                 | 15.42 | 166  | 15413    | 0.594  | ng/ul  | 91       |
| 12) Phenanthrene            | 17.14 | 178  | 514381   | 12.287 | ng/ul# | 84       |
| 13) Anthracene              | 17.22 | 178  | 99022    | 2.717  | ng/ul# | 86       |
| 15) Fluoranthene            | 19.16 | 202  | 1117057  | 21.759 | ng/ul  | 84       |
| 17) Pyrene                  | 19.52 | 202  | 859340   | 16.978 | ng/ul# | 87       |
| 18) Benzo(a)anthracene      | 21.24 | 228  | 529210   | 11.560 | ng/ul# | 84       |
| 19) Chrysene                | 21.30 | 228  | 502359   | 10.578 | ng/ul  | 98       |
| 21) Benzo(b)fluoranthene    | 22.94 | 252  | 511715m  | 11.552 | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 22.98 | 252  | 162625m  | 3.457  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.56 | 252  | 316026   | 7.545  | ng/ul# | 81       |
| 24) Indeno(1,2,3-cd)pyrene  | 26.19 | 276  | 166928   | 3.442  | ng/ul# | 87       |
| 25) Dibenzo(a,h)anthracene  | 26.20 | 278  | 55223    | 1.352  | ng/ul  | 94       |
| 26) Benzo(g,h,i)perylene    | 26.97 | 276  | 132721   | 3.191  | ng/ul  | 97       |

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

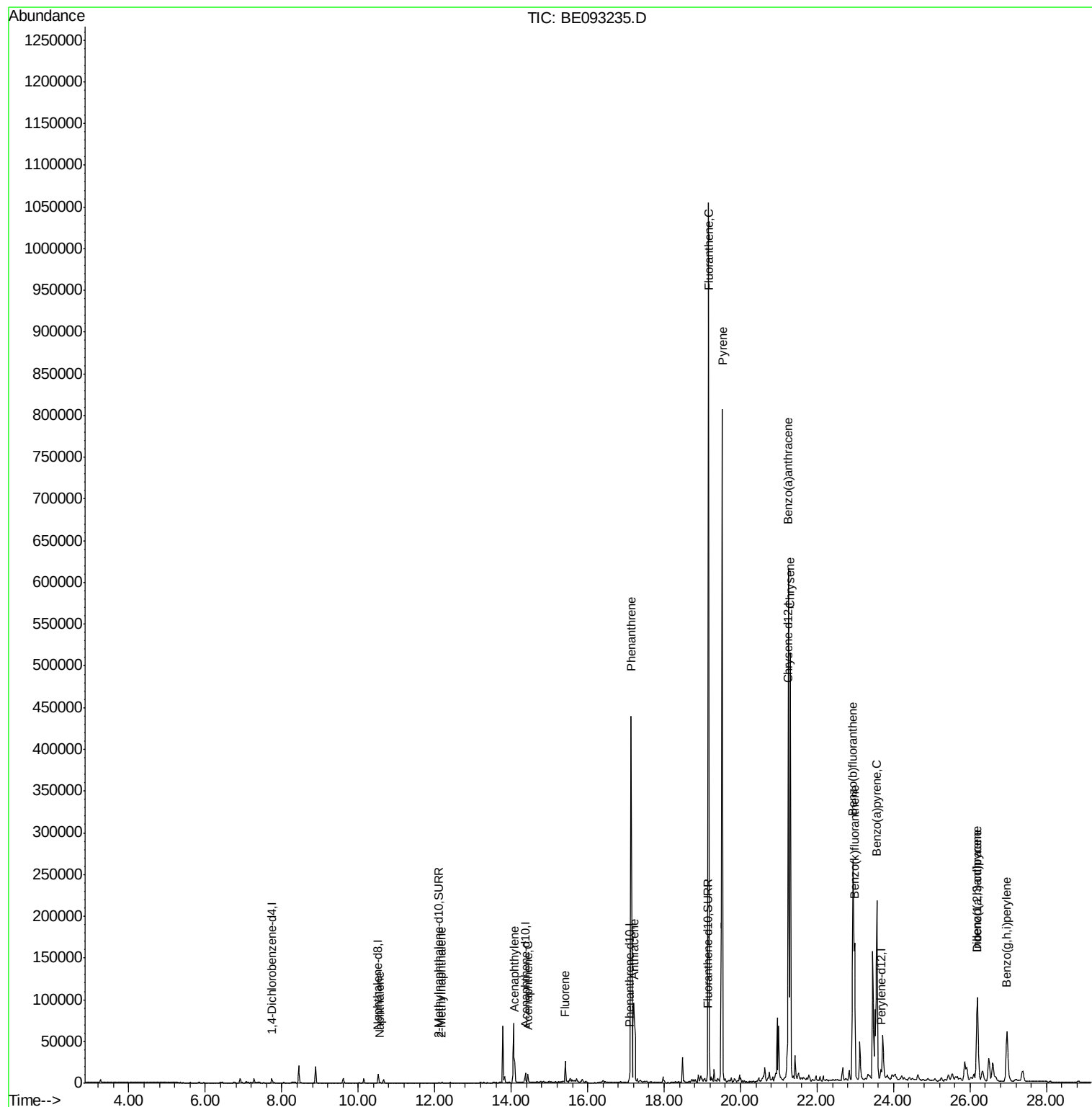
Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE061517\  
Data File : BE093235.D  
Acq On : 16 Jun 2017 9:57  
Operator : SJ/MA  
Sample : I3522-07DL 5X  
Misc :  
ALS Vial : 28 Sample Multiplier: 1

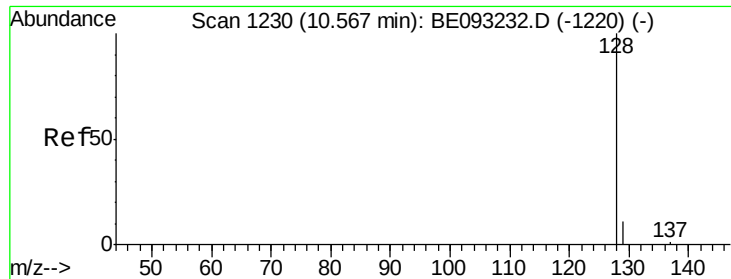
Instrument :  
BNA\_E  
ClientSampleId :  
F5A62DL

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Quant Time: Jun 16 14:37:09 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 05:36:31 2017  
Response via : Initial Calibration





#3

Naphthalene

Concen: 0.021 ng/ul

RT: 10.57 min Scan# 1230

Delta R.T. -0.00 min

Lab File: BE093235.D

Acq: 16 Jun 2017 9:57

Instrument :

BNA\_E

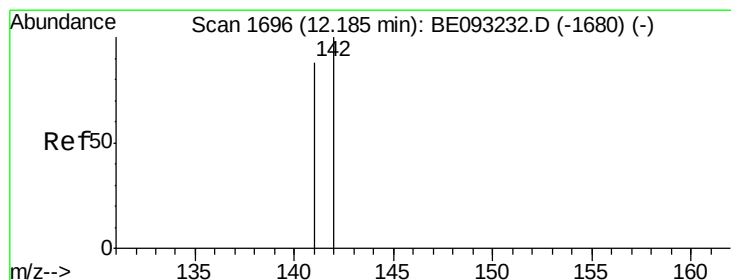
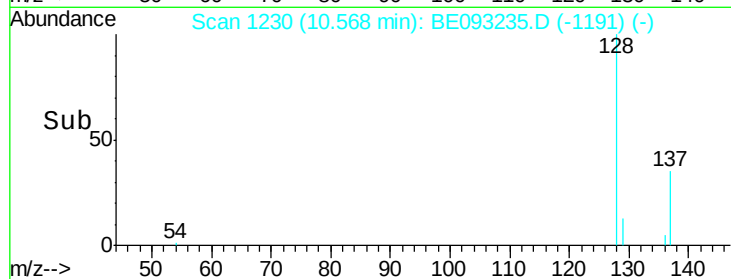
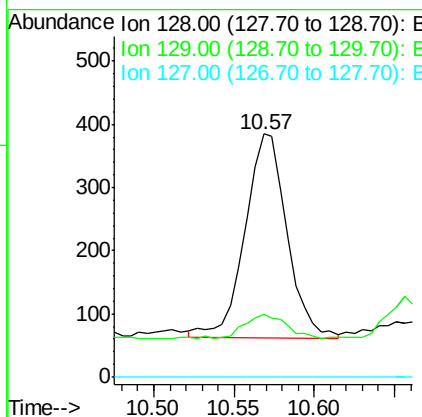
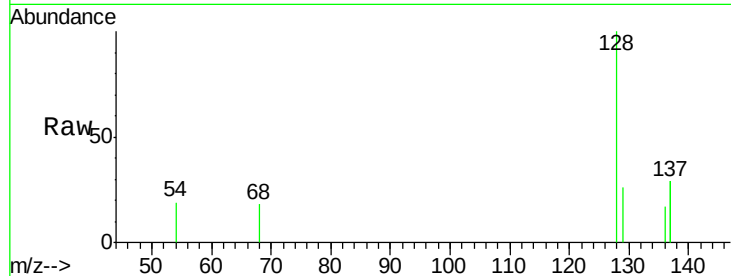
ClientSampleId :

F5A62DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 128   | Resp: | 583   |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 129       | 26.0  | 11.3  | 16.9# |
| 127       | 0.0   | 4.0   | 6.0#  |

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#5

2-Methylnaphthalene

Concen: 0.046 ng/ul

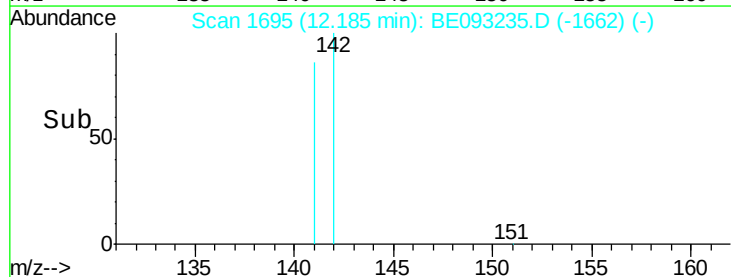
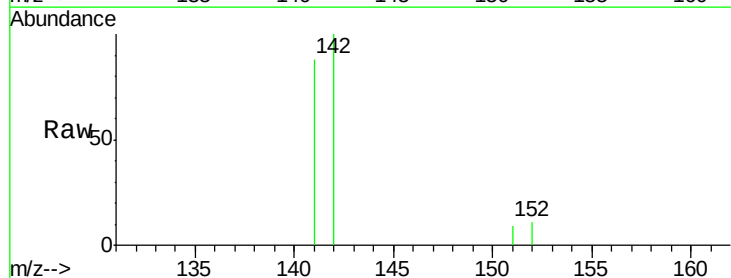
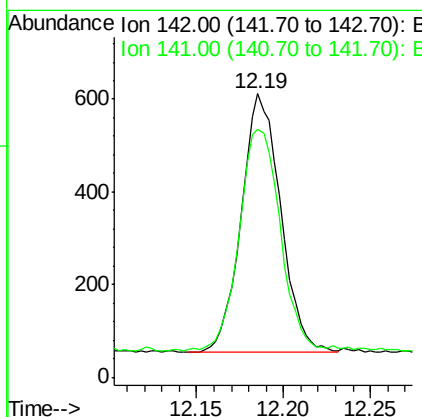
RT: 12.19 min Scan# 1695

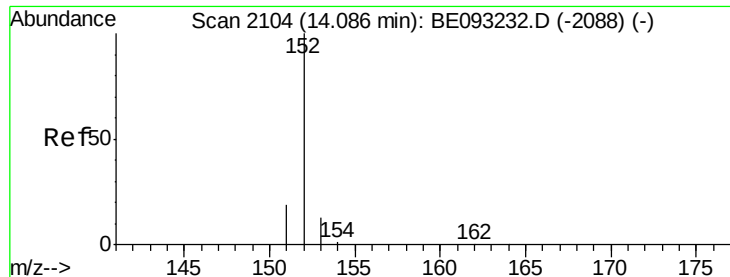
Delta R.T. 0.00 min

Lab File: BE093235.D

Acq: 16 Jun 2017 9:57

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 142   | Resp: | 877   |
| Ion Ratio | Lower | Upper |       |
| 142       | 100   |       |       |
| 141       | 89.7  | 72.6  | 108.8 |





#7

Acenaphthylene

Concen: 1.293 ng/ul

RT: 14.09 min Scan# 2103

Delta R.T. 0.00 min

Lab File: BE093235.D

Acq: 16 Jun 2017 9:57

Instrument :

BNA\_E

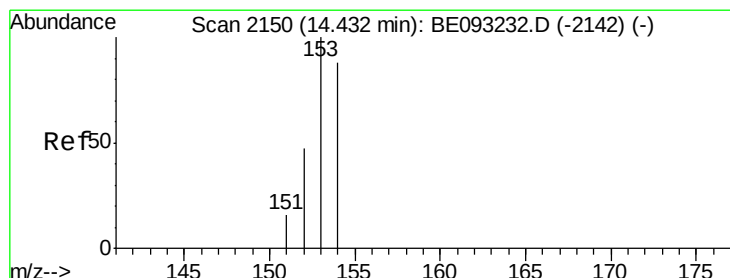
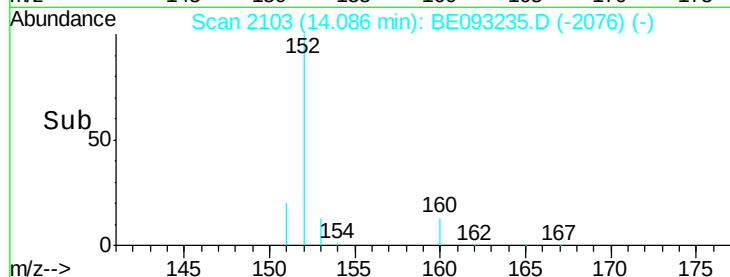
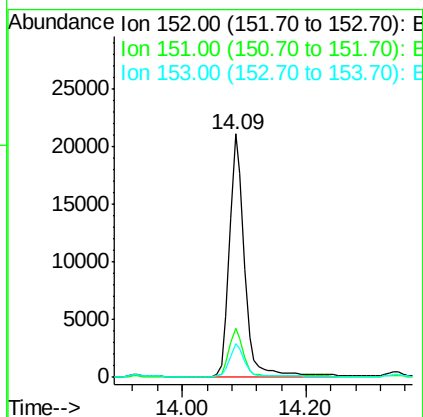
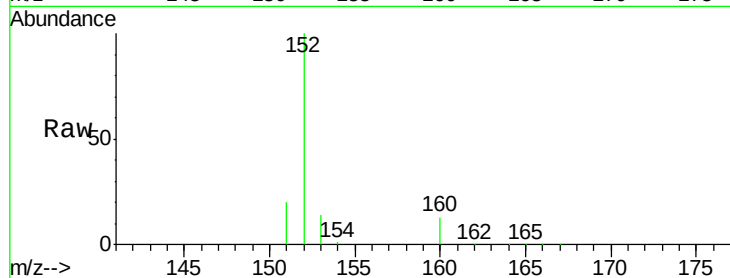
ClientSampleId :

F5A62DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 152   | Resp: | 35460 |
| 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: 0.271 ng/ul

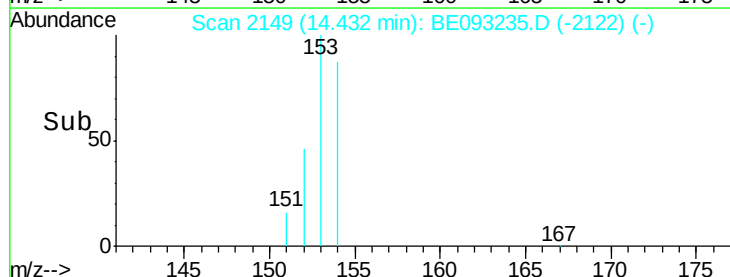
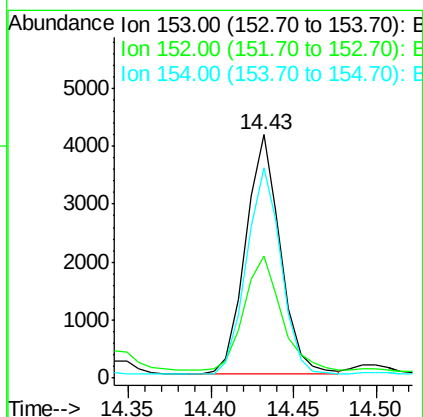
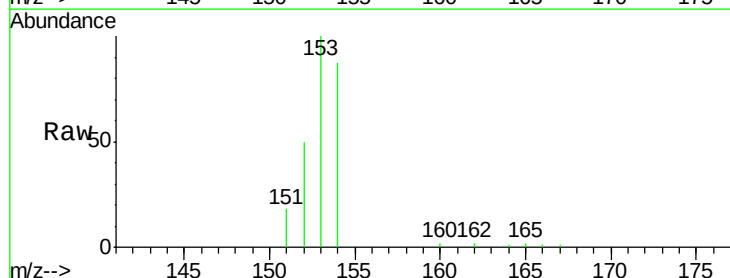
RT: 14.43 min Scan# 2149

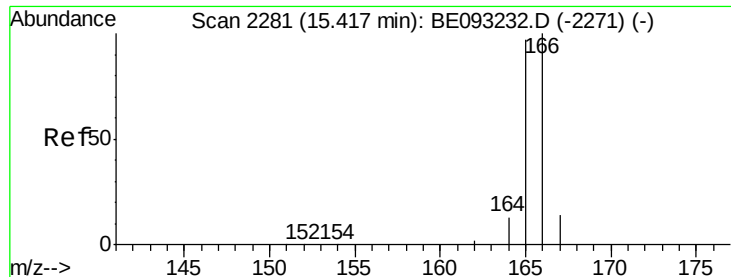
Delta R.T. 0.00 min

Lab File: BE093235.D

Acq: 16 Jun 2017 9:57

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 153   | Resp: | 5986  |
| Ion Ratio | Lower | Upper |       |
| 153       | 100   |       |       |
| 152       | 50.0  | 40.3  | 60.5  |
| 154       | 86.6  | 71.4  | 107.2 |





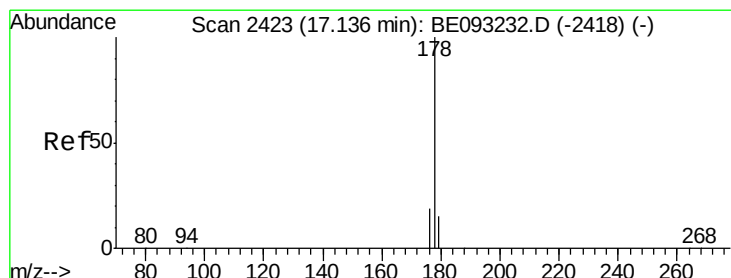
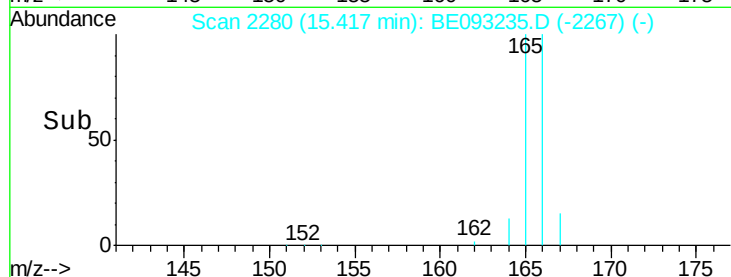
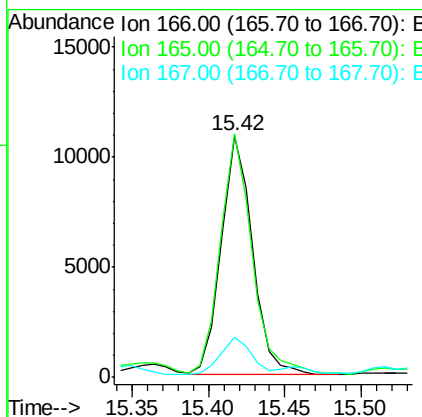
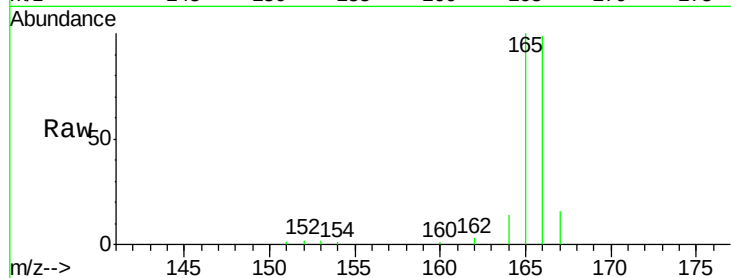
#9  
**Fluorene**  
 Concen: 0.594 ng/ul  
 RT: 15.42 min Scan# 2280  
 Delta R.T. 0.00 min  
 Lab File: BE093235.D  
 Acq: 16 Jun 2017 9:57

Instrument :  
 BNA\_E  
 ClientSampleID :  
 F5A62DL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 100.9 | 73.4  | 110.2 |
| 167     | 16.4  | 14.6  | 22.0  |

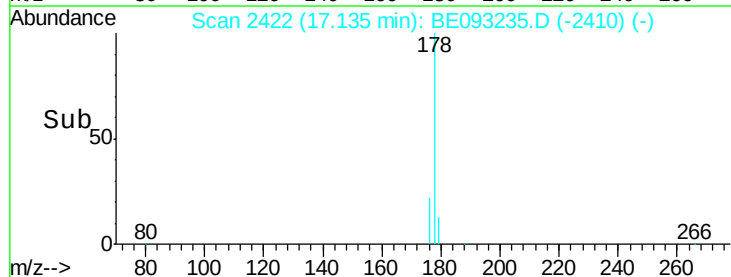
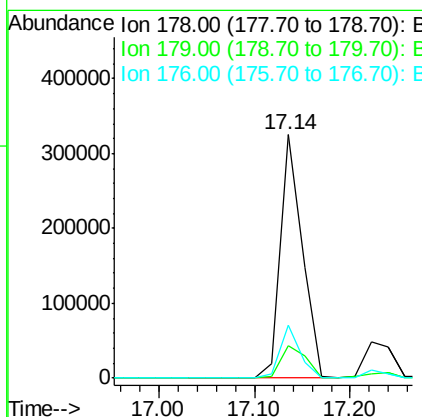
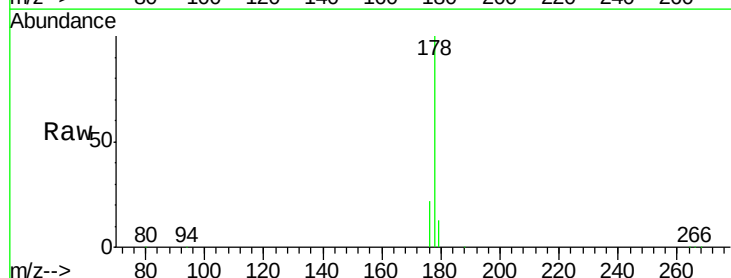
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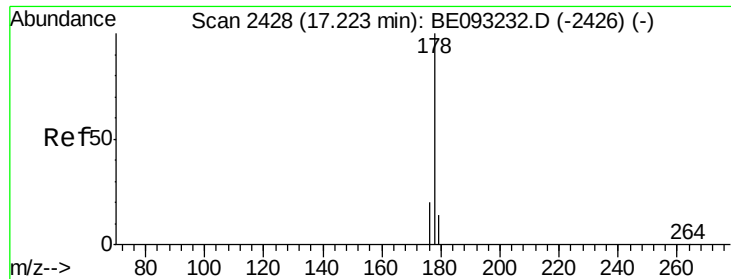
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#12  
**Phenanthrene**  
 Concen: 12.287 ng/ul  
 RT: 17.14 min Scan# 2422  
 Delta R.T. 0.00 min  
 Lab File: BE093235.D  
 Acq: 16 Jun 2017 9:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 13.5  | 18.4  | 27.6# |
| 176     | 21.7  | 13.6  | 20.4# |





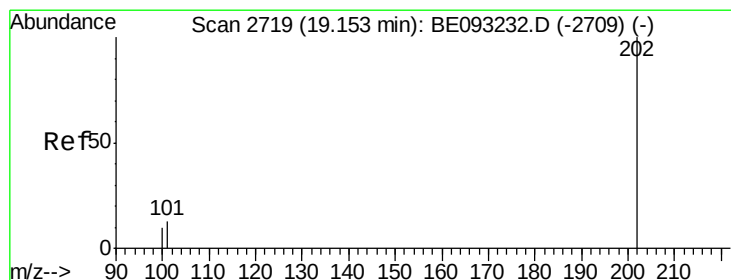
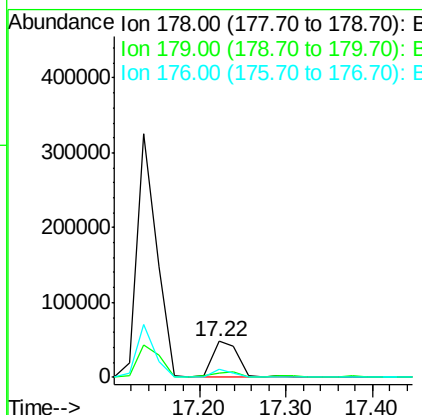
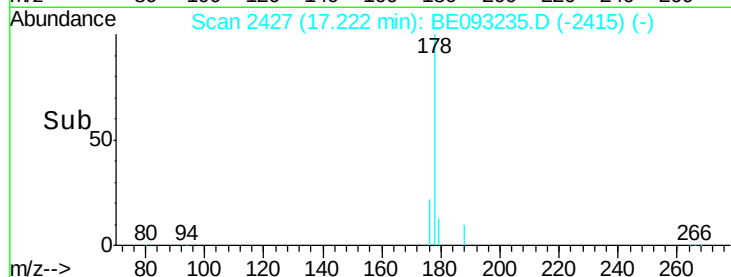
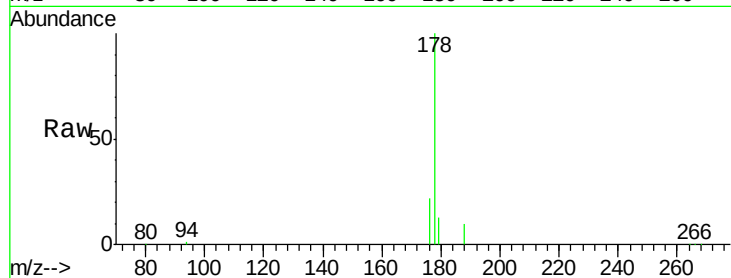
#13  
 Anthracene  
 Concen: 2.717 ng/ul  
 RT: 17.22 min Scan# 2427  
 Delta R.T. 0.00 min  
 Lab File: BE093235.D  
 Acq: 16 Jun 2017 9:57

Instrument :  
 BNA\_E  
 ClientSampleId :  
 F5A62DL

Tgt Ion:178 Resp: 99022  
 Ion Ratio Lower Upper  
 178 100  
 179 13.4 18.1 27.1#  
 176 22.3 14.7 22.1#

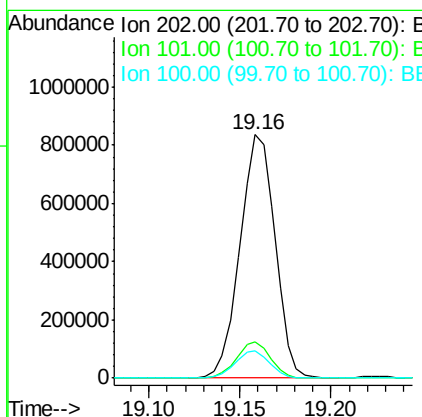
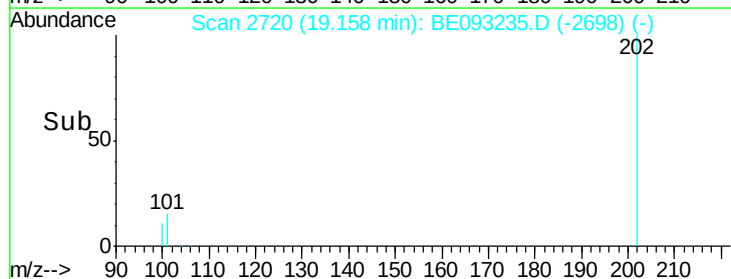
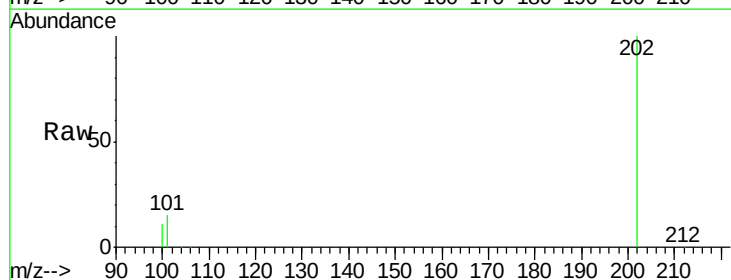
Manual Integrations  
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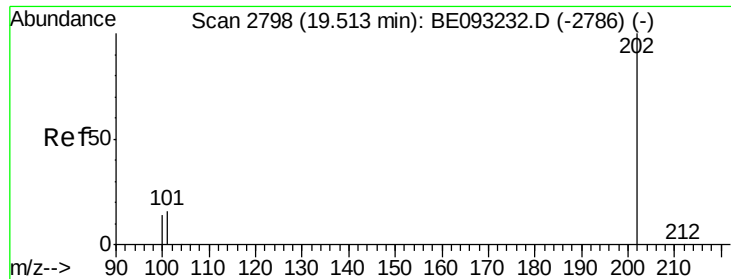
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#15  
 Fluoranthene  
 Concen: 21.759 ng/ul  
 RT: 19.16 min Scan# 2720  
 Delta R.T. 0.00 min  
 Lab File: BE093235.D  
 Acq: 16 Jun 2017 9:57

Tgt Ion:202 Resp: 1117057  
 Ion Ratio Lower Upper  
 202 100  
 101 14.8 0.0 30.3  
 100 11.2 0.0 39.5





#17

Pyrene

Concen: 16.978 ng/ul

RT: 19.52 min Scan# 2799

Delta R.T. 0.00 min

Lab File: BE093235.D

Acq: 16 Jun 2017 9:57

Instrument :

BNA\_E

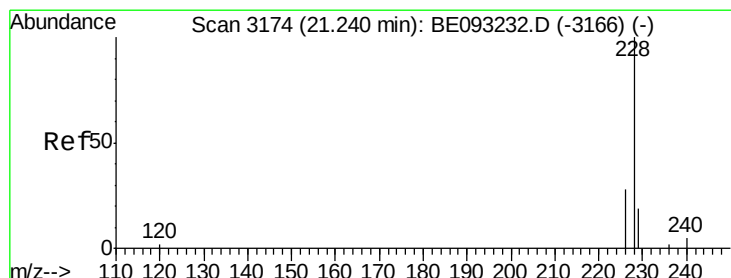
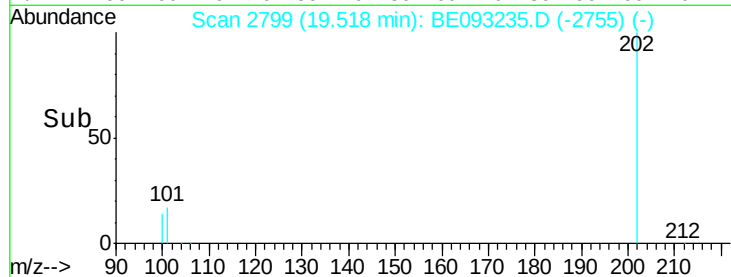
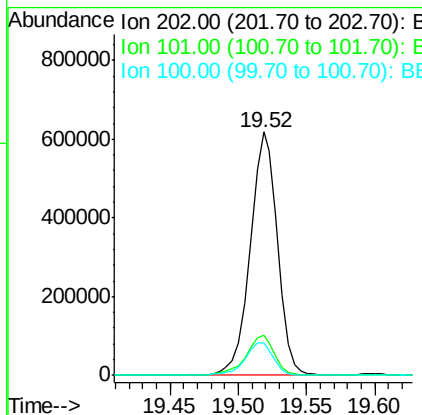
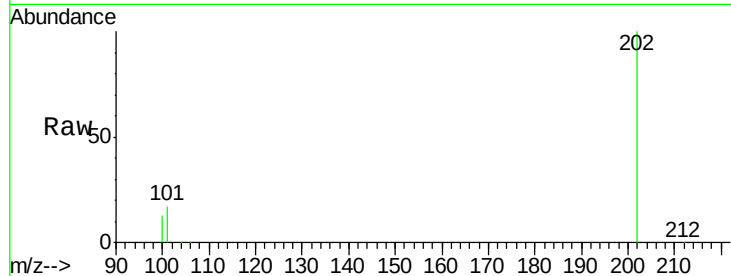
ClientSampleId :

F5A62DL

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 859340 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 16.7  | 18.2  | 27.4#  |
| 100       | 13.5  | 15.6  | 23.4#  |

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#18

Benzo(a)anthracene

Concen: 11.560 ng/ul

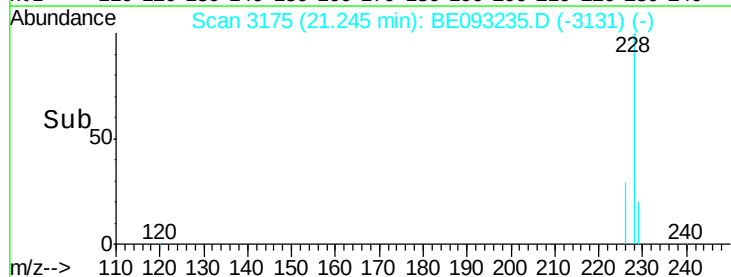
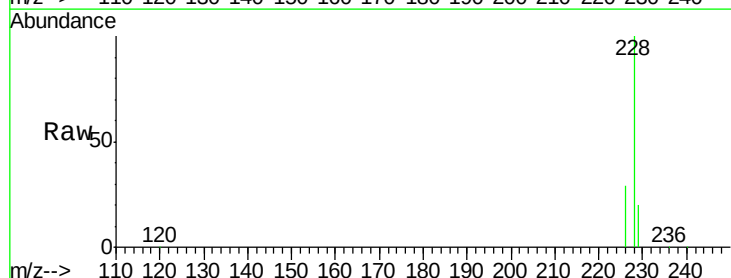
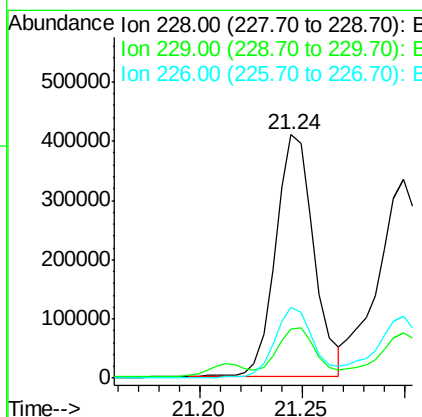
RT: 21.24 min Scan# 3175

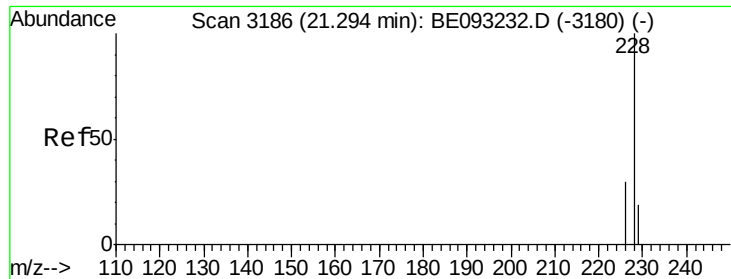
Delta R.T. -0.00 min

Lab File: BE093235.D

Acq: 16 Jun 2017 9:57

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 529210 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 229       | 20.2  | 22.8  | 34.2#  |
| 226       | 29.1  | 17.0  | 25.6#  |





#19

Chrysene

Concen: 10.578 ng/ul

RT: 21.30 min Scan# 3187

Delta R.T. 0.00 min

Lab File: BE093235.D

Acq: 16 Jun 2017 9:57

Instrument :

BNA\_E

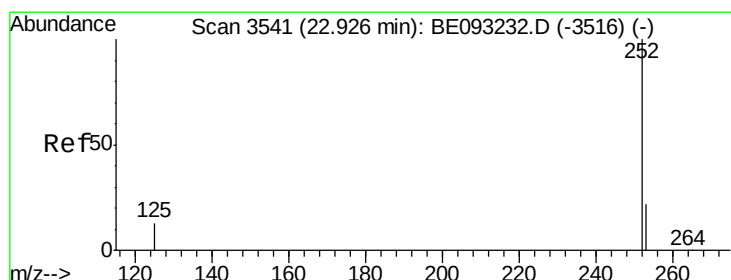
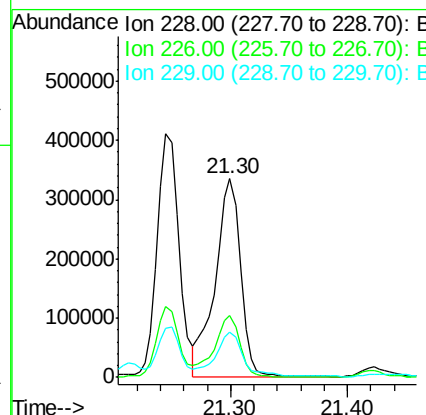
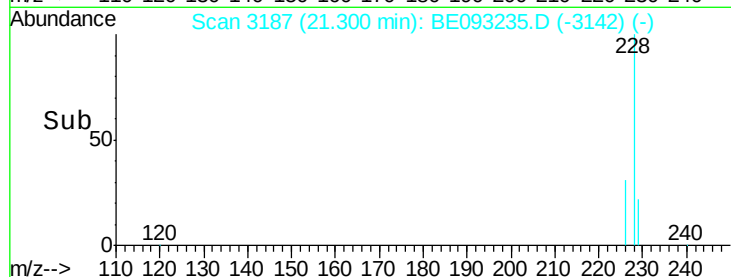
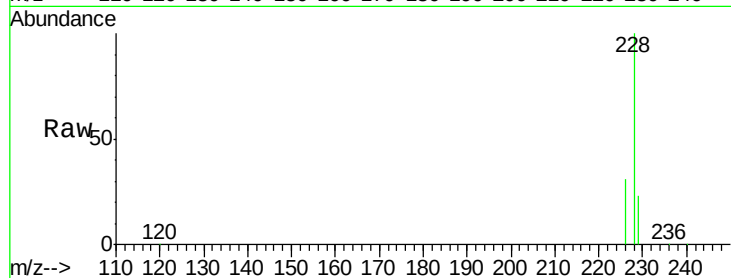
ClientSampleId :

F5A62DL

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 502359 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 31.0  | 23.4  | 35.0   |
| 229       | 22.6  | 17.7  | 26.5   |

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#21

Benzo(b)fluoranthene

Concen: 11.552 ng/ul m

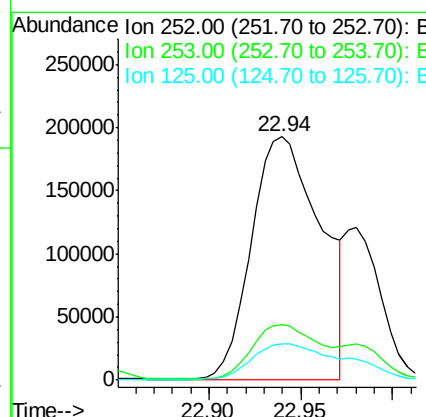
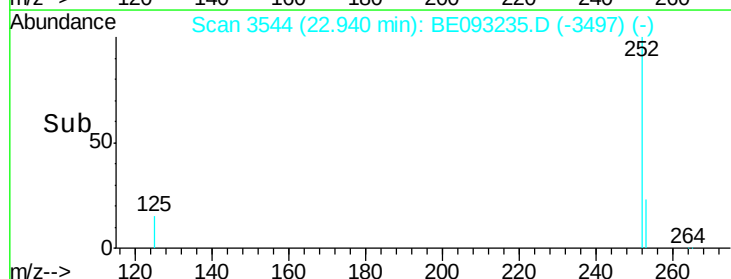
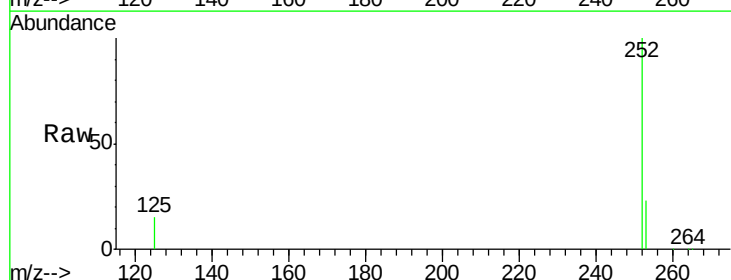
RT: 22.94 min Scan# 3544

Delta R.T. 0.01 min

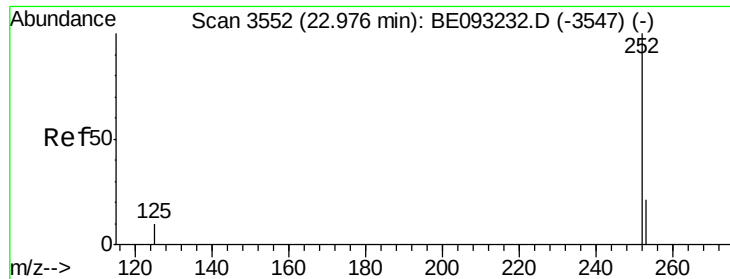
Lab File: BE093235.D

Acq: 16 Jun 2017 9:57

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 511715 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 23.0  | 0.0   | 64.2   |
| 125       | 14.8  | 0.0   | 35.0   |







#22

Benzo(k)fluoranthene

Concen: 3.457 ng/ul m

RT: 22.98 min Scan# 3553

Delta R.T. 0.00 min

Lab File: BE093235.D

Acq: 16 Jun 2017 9:57

Instrument :

BNA\_E

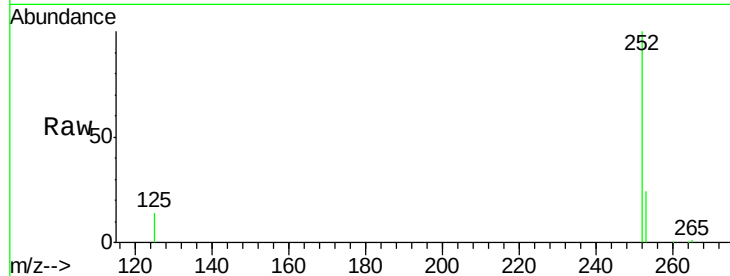
ClientSampleId :

F5A62DL

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 252     | 100   | 162625 |       |       |
| 253     | 23.8  | 24.5   | 36.7# |       |
| 125     | 14.0  | 13.7   | 20.5  |       |

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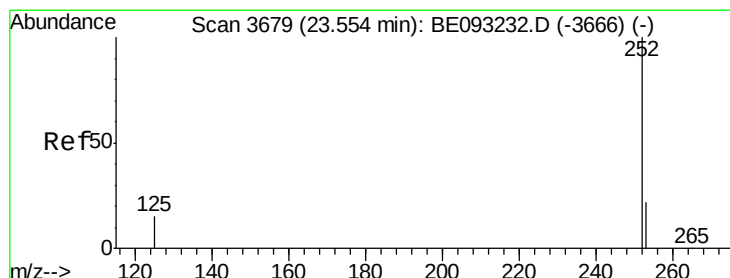
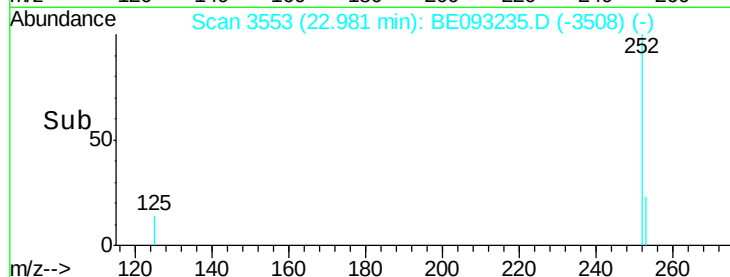
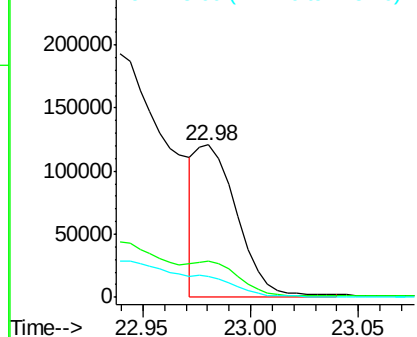


Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#23

Benzo(a)pyrene

Concen: 7.545 ng/ul

RT: 23.56 min Scan# 3681

Delta R.T. 0.01 min

Lab File: BE093235.D

Acq: 16 Jun 2017 9:57

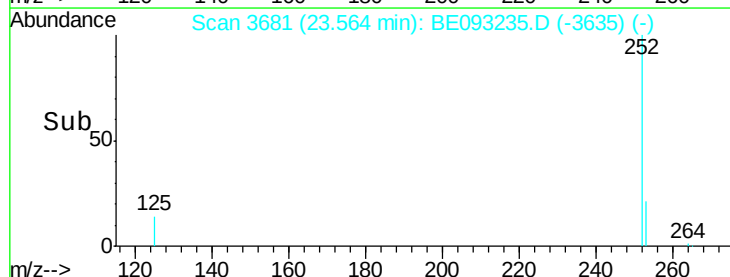
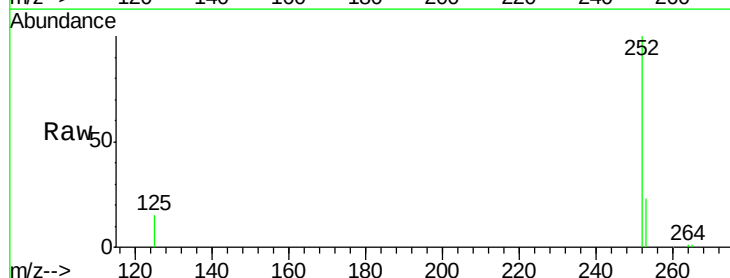
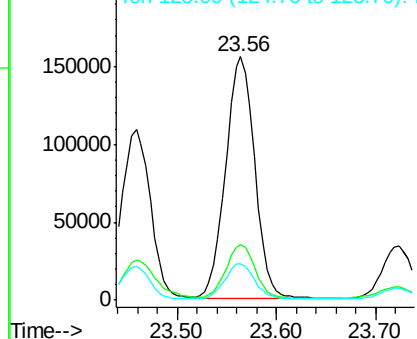
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 252     | 100   | 316026 |       |       |
| 253     | 22.8  | 28.5   | 42.7# |       |
| 125     | 15.1  | 18.1   | 27.1# |       |

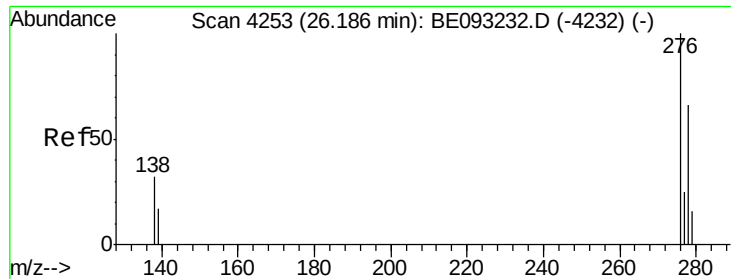
Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





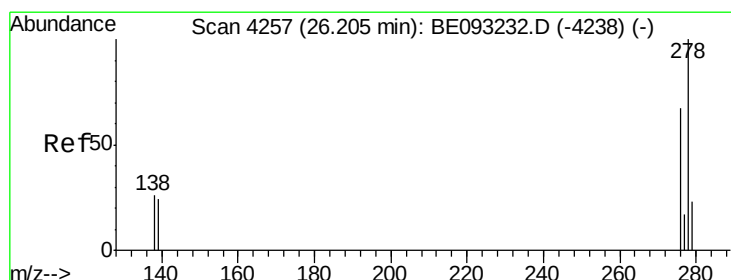
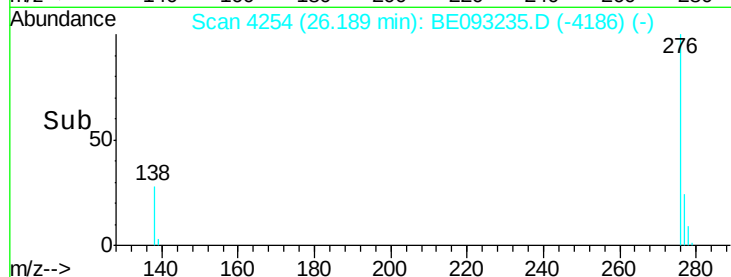
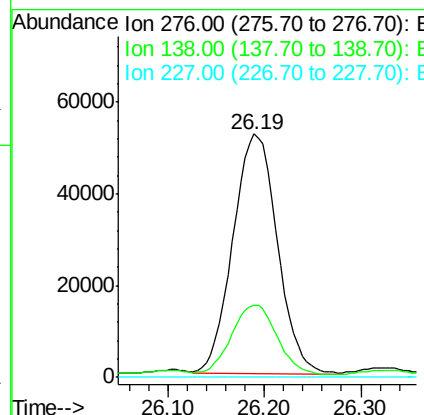
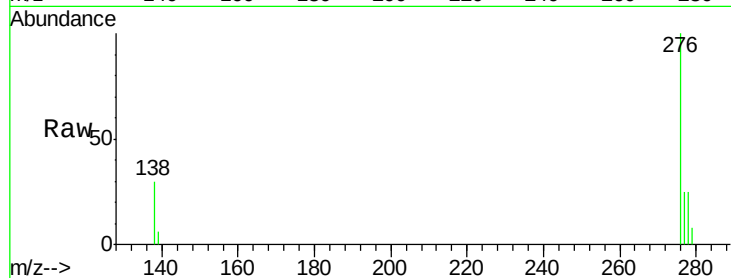
#24  
 Indeno(1,2,3-cd)pyrene  
 Concen: 3.442 ng/ul  
 RT: 26.19 min Scan# 4254  
 Delta R.T. 0.01 min  
 Lab File: BE093235.D  
 Acq: 16 Jun 2017 9:57

Instrument :  
 BNA\_E  
 ClientSampleId :  
 F5A62DL

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 276     | 100   |            |            |
| 138     | 30.0  | 28.0       | 42.0       |
| 227     | 0.0   | 8.0        | 12.0       |

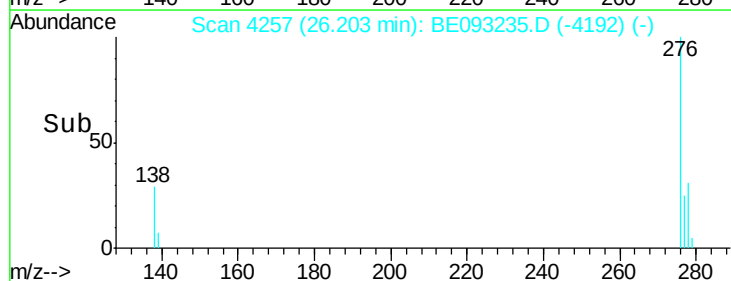
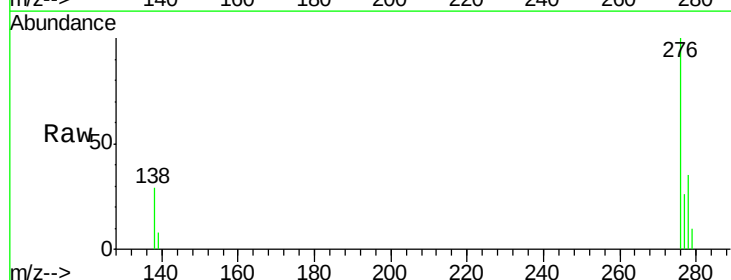
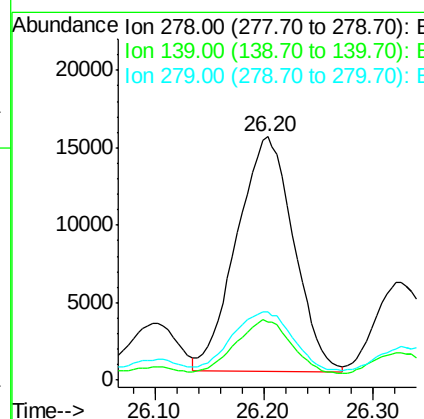
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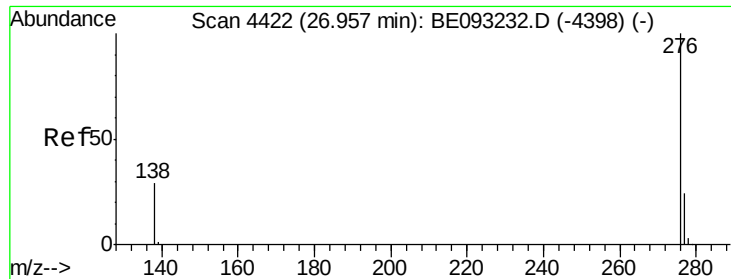
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#25  
 Dibenzo(a,h)anthracene  
 Concen: 1.352 ng/ul  
 RT: 26.20 min Scan# 4257  
 Delta R.T. -0.01 min  
 Lab File: BE093235.D  
 Acq: 16 Jun 2017 9:57

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 278     | 100   |            |            |
| 139     | 23.8  | 17.4       | 26.0       |
| 279     | 28.0  | 25.9       | 38.9       |





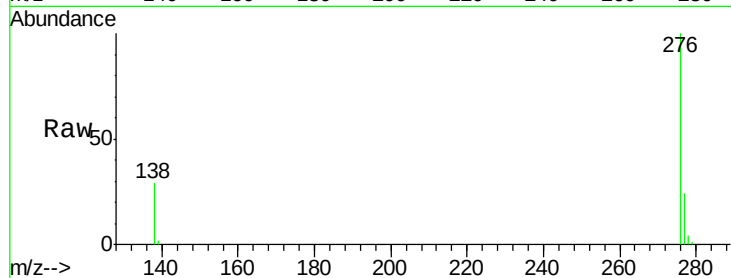
#26  
 Benzo(g,h,i)perylene  
 Concen: 3.191 ng/ul  
 RT: 26.97 min Scan# 4425  
 Delta R.T. 0.01 min  
 Lab File: BE093235.D  
 Acq: 16 Jun 2017 9:57

Instrument :  
 BNA\_E  
 ClientSampleId :  
 F5A62DL

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 276     | 100   |            |            |
| 138     | 29.5  | 21.8       | 32.8       |
| 277     | 24.5  | 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

