

Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE110615\  
 Data File : BE091090.D  
 Acq On : 6 Nov 2015 14:46  
 Operator : UM/NP  
 Sample : G4273-10DL 5X  
 Misc :  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 C0AP6DL

Manual Integrations  
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 11/9/2015 6:48:24 PM

Quant Time: Nov 09 13:57:31 2015  
 Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SOM02.2-EPA-SIM-BE102715.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Nov 09 05:49:45 2015  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.90  | 152  | 3006     | 0.40 | ng/ul  | 0.00     |
| 4) Naphthalene-d8           | 9.57  | 136  | 16867    | 0.40 | ng/ul  | 0.00     |
| 8) Acenaphthene-d10         | 13.40 | 164  | 9679     | 0.40 | ng/ul  | 0.00     |
| 12) Phenanthrene-d10        | 16.14 | 188  | 23096    | 0.40 | ng/ul  | 0.00     |
| 18) Chrysene-d12            | 20.29 | 240  | 25406    | 0.40 | ng/ul  | 0.00     |
| 22) Perylene-d12            | 22.19 | 264  | 25318    | 0.40 | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |      |        |          |
| 2) 1,4-Dioxane-d8           | 2.98  | 96   | 2297     | 1.06 | ng/uL  | 0.03     |
| 6) 2-Methylnaphthalene-d10  | 11.08 | 152  | 875      | 0.04 | ng/ul  | 0.00     |
| 16) Fluoranthene-d10        | 18.13 | 212  | 2592     | 0.04 | ng/ul  | 0.00     |
| Target Compounds            |       |      |          |      |        |          |
|                             |       |      |          |      |        | Qvalue   |
| 5) Naphthalene              | 9.62  | 128  | 5389     | 0.13 | ng/ul  | 98       |
| 7) 2-Methylnaphthalene      | 11.15 | 142  | 10706    | 0.40 | ng/ul  | 99       |
| 9) Acenaphthylene           | 13.15 | 152  | 5844     | 0.12 | ng/ul  | 98       |
| 10) Acenaphthene            | 13.46 | 153  | 50346    | 1.52 | ng/ul  | 94       |
| 11) Fluorene                | 14.45 | 166  | 62335    | 1.47 | ng/ul  | 92       |
| 14) Phenanthrene            | 16.17 | 178  | 1112195  | 4.17 | ng/ul  | 97       |
| 15) Anthracene              | 16.25 | 178  | 560393   | 2.31 | ng/ul  | 98       |
| 17) Fluoranthene            | 18.15 | 202  | 1105764  | 3.54 | ng/ul  | 89       |
| 19) Pyrene                  | 18.54 | 202  | 759228   | 2.63 | ng/ul# | 78       |
| 20) Benzo(a)anthracene      | 20.26 | 228  | 91767    | 1.41 | ng/ul  | 97       |
| 21) Chrysene                | 20.32 | 228  | 91660    | 1.22 | ng/ul  | 99       |
| 23) Benzo(b)fluoranthene    | 21.62 | 252  | 54012    | 0.68 | ng/ul  | 94       |
| 24) Benzo(k)fluoranthene    | 21.65 | 252  | 60576    | 0.75 | ng/ul  | 95       |
| 25) Benzo(a)pyrene          | 22.09 | 252  | 61195m   | 0.84 | ng/ul  |          |
| 26) Indeno(1,2,3-cd)pyrene  | 23.83 | 276  | 116722m  | 0.38 | ng/ul  |          |
| 27) Dibenzo(a,h)anthracene  | 23.79 | 278  | 9478     | 0.13 | ng/ul# | 73       |
| 28) Benzo(g,h,i)perylene    | 24.40 | 276  | 91944    | 0.29 | ng/ul  | 95       |

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

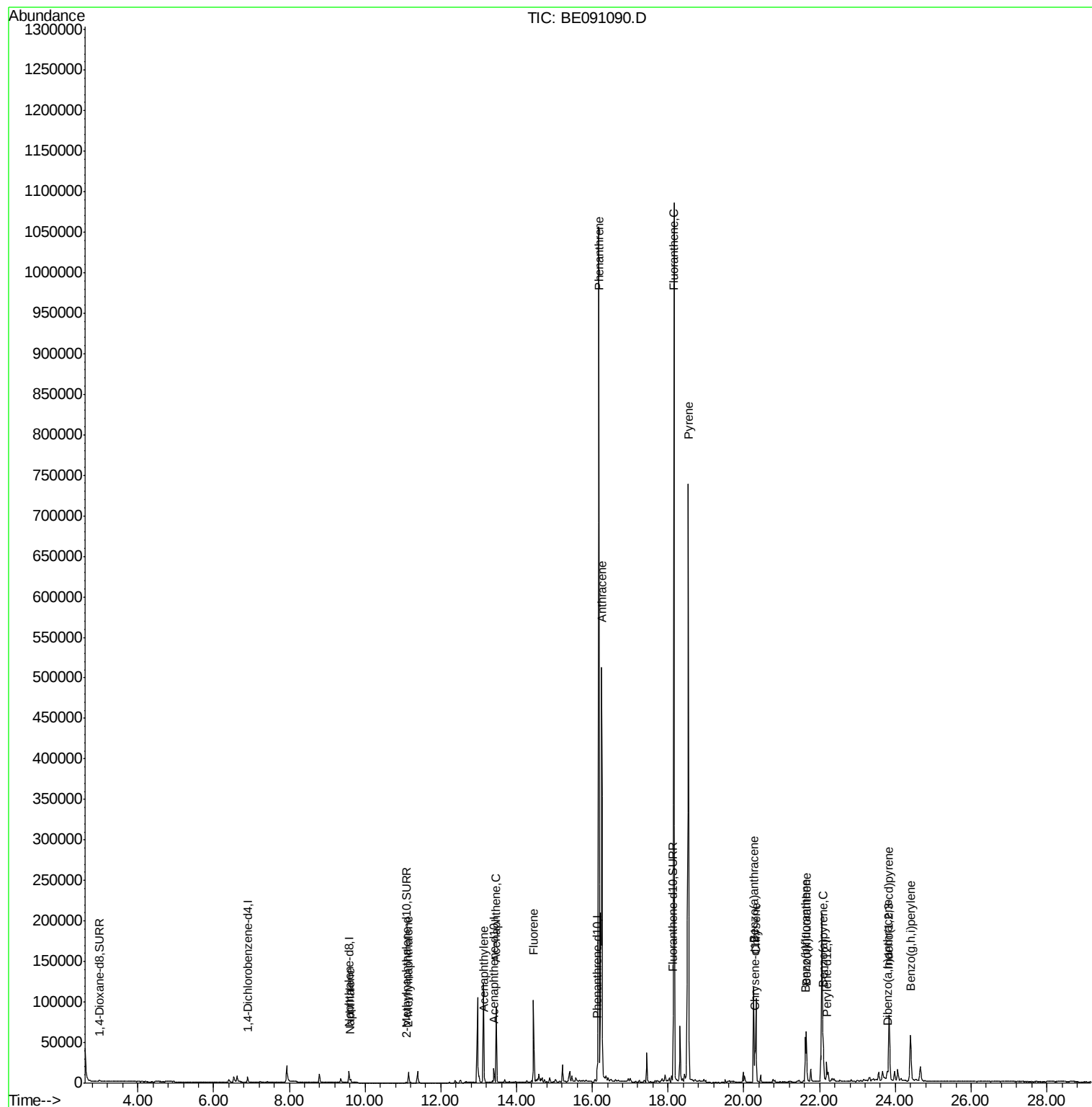
Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE110615\  
Data File : BE091090.D  
Acq On : 6 Nov 2015 14:46  
Operator : UM/NP  
Sample : G4273-10DL 5X  
Misc :  
ALS Vial : 26 Sample Multiplier: 1

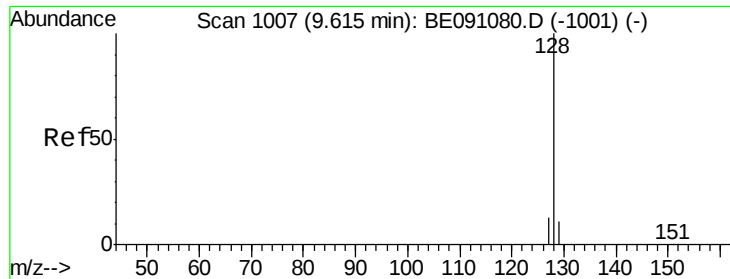
Instrument :  
BNA\_E  
ClientSampleId :  
C0AP6DL

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Quant Time: Nov 09 13:57:31 2015  
Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SOM02.2-EPA-SIM-BE102715.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Nov 09 05:49:45 2015  
Response via : Initial Calibration





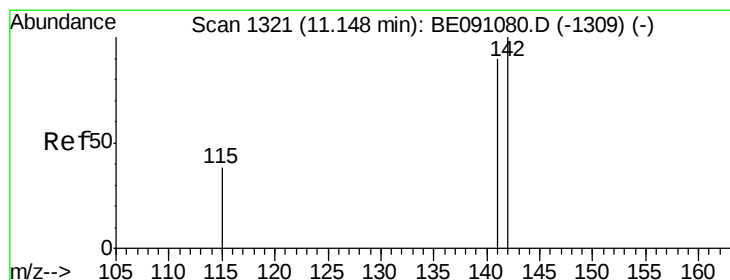
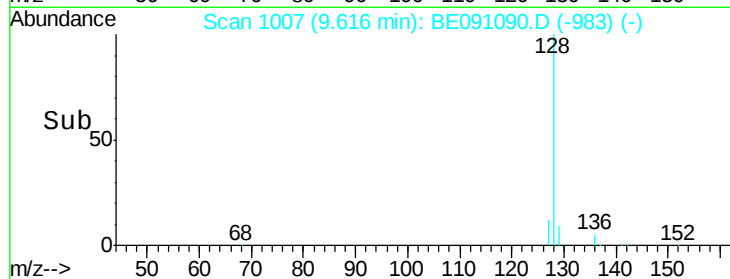
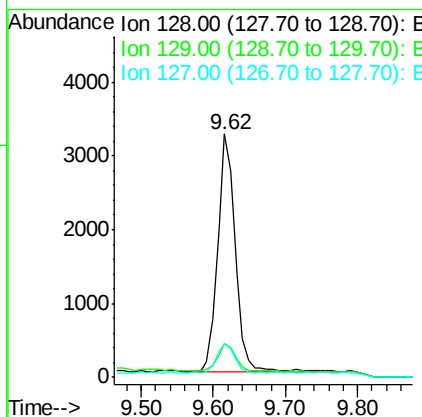
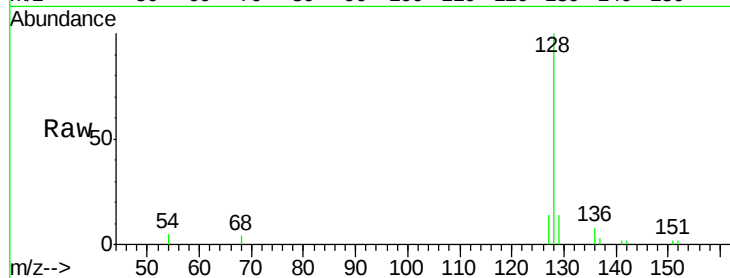
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Naphthalene  
Concen: 0.13 ng/ul  
RT: 9.62 min Scan# 1007  
Delta R.T. 0.00 min  
Lab File: BE091090.D  
Acq: 6 Nov 2015 14:46

Instrument :  
BNA\_E  
ClientSampleId :  
C0AP6DL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 13.6  | 9.8   | 14.8  |
| 127     | 14.0  | 10.7  | 16.1  |

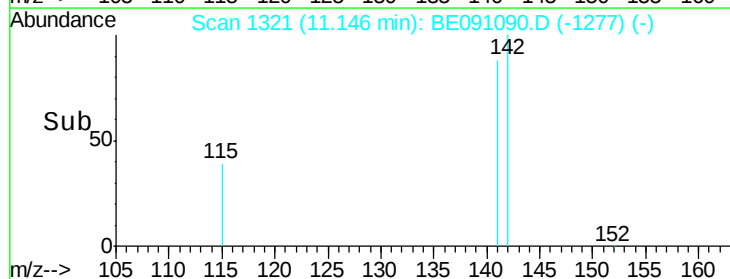
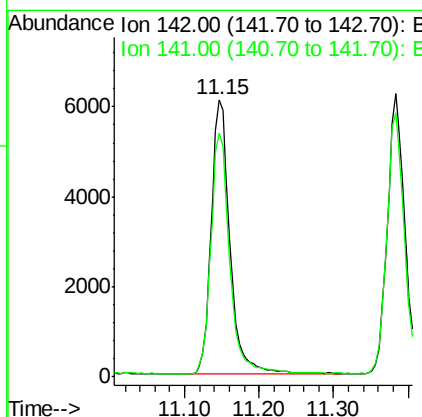
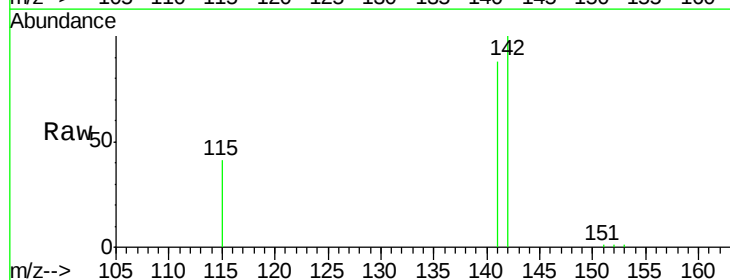
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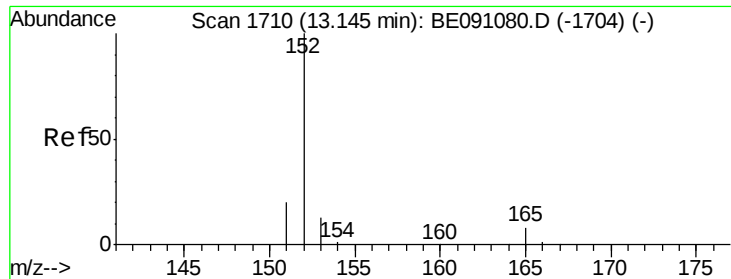
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#7  
2-Methylnaphthalene  
Concen: 0.40 ng/ul  
RT: 11.15 min Scan# 1321  
Delta R.T. -0.00 min  
Lab File: BE091090.D  
Acq: 6 Nov 2015 14:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 88.7  | 70.3  | 105.5 |





#9

Acenaphthylene

Concen: 0.12 ng/ul

RT: 13.15 min Scan# 1710

Delta R.T. 0.00 min

Lab File: BE091090.D

Acq: 6 Nov 2015 14:46

Instrument :

BNA\_E

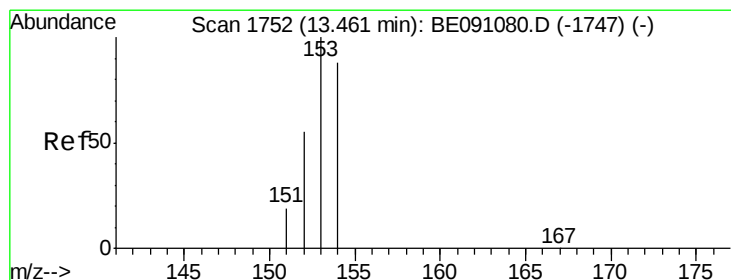
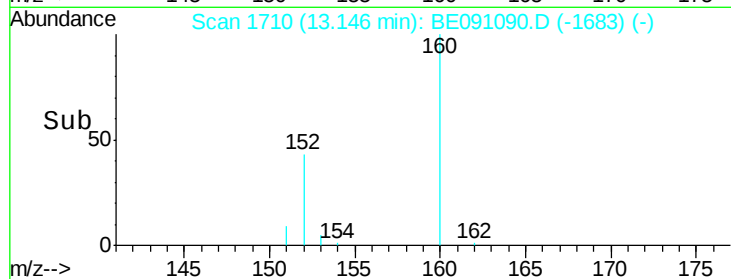
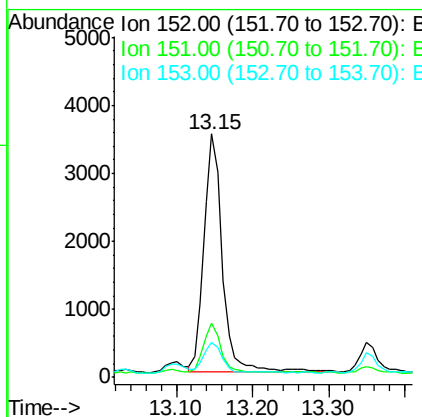
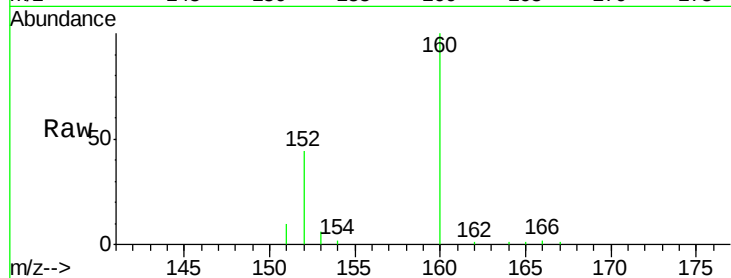
ClientSampleId :

C0AP6DL

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|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 152   | Resp: | 5844 |
| Ion Ratio | Lower | Upper |      |
| 152       | 100   |       |      |
| 151       | 22.2  | 16.8  | 25.2 |
| 153       | 14.2  | 11.3  | 16.9 |



#10

Acenaphthene

Concen: 1.52 ng/ul

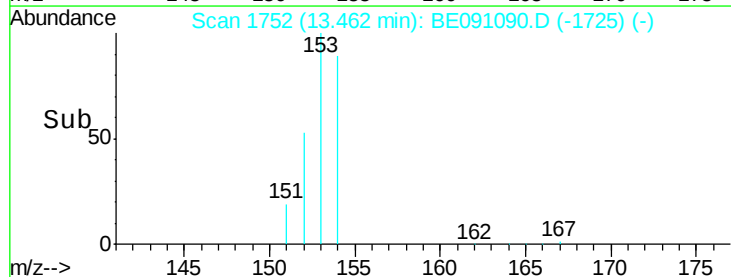
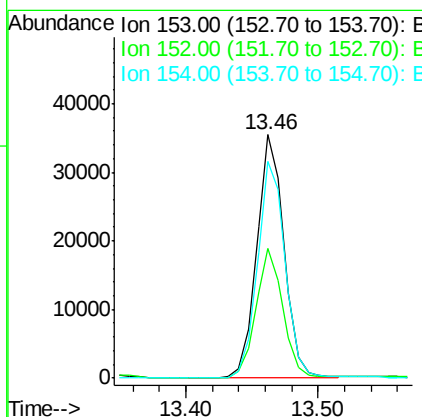
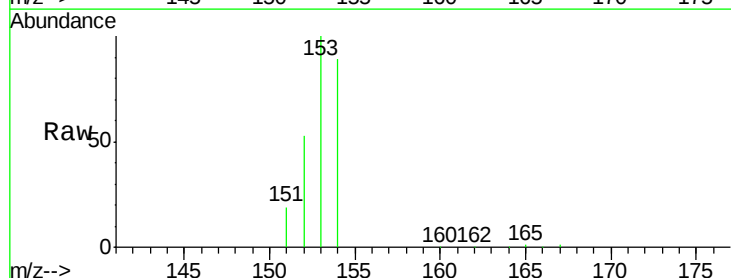
RT: 13.46 min Scan# 1752

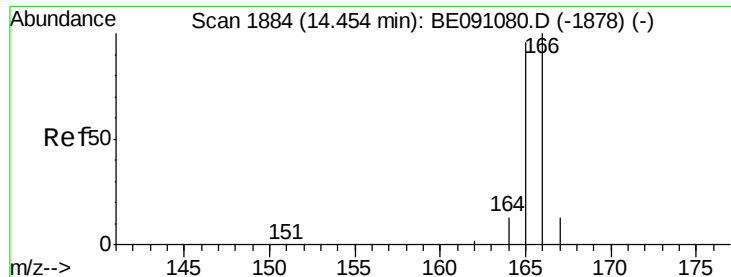
Delta R.T. 0.00 min

Lab File: BE091090.D

Acq: 6 Nov 2015 14:46

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 153   | Resp: | 50346 |
| Ion Ratio | Lower | Upper |       |
| 153       | 100   |       |       |
| 152       | 53.3  | 42.3  | 63.5  |
| 154       | 88.9  | 64.7  | 97.1  |





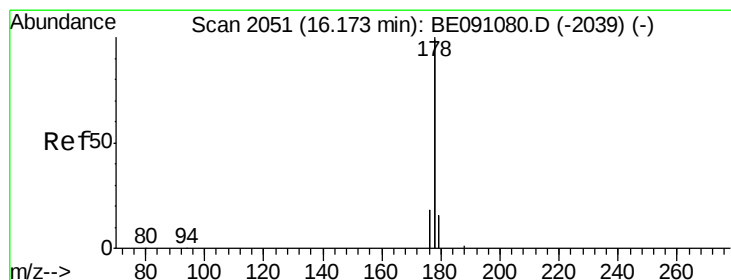
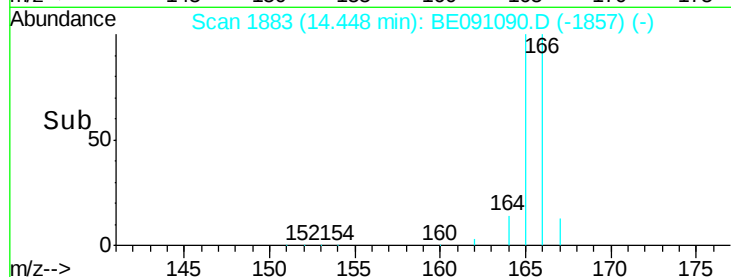
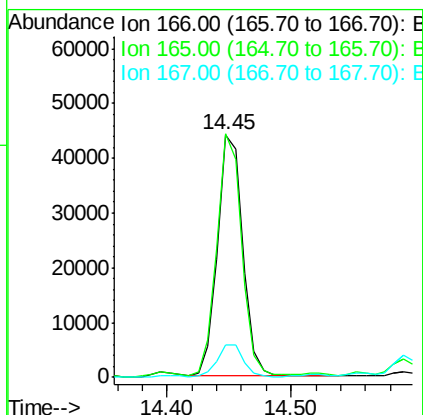
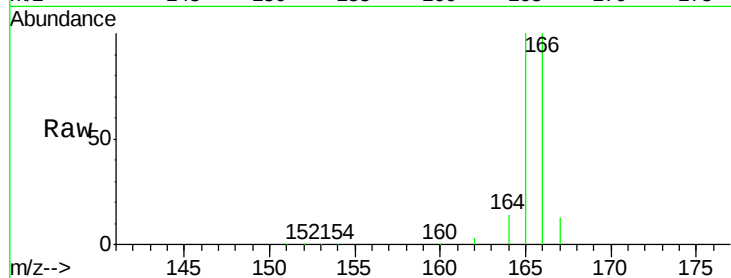
#11  
**Fluorene**  
 Concen: 1.47 ng/ul  
 RT: 14.45 min Scan# 1883  
 Delta R.T. -0.01 min  
 Lab File: BE091090.D  
 Acq: 6 Nov 2015 14:46

Instrument :  
 BNA\_E  
 ClientSampleId :  
 C0AP6DL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 100.3 | 87.6  | 131.4 |
| 167     | 13.3  | 11.1  | 16.7  |

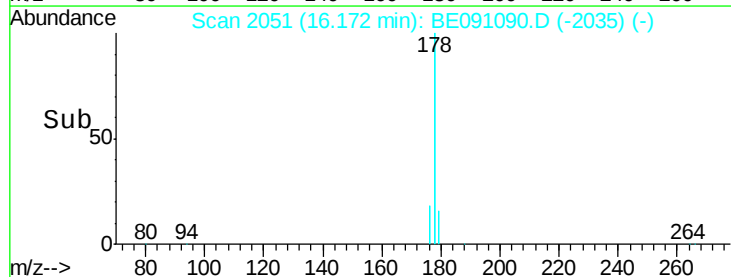
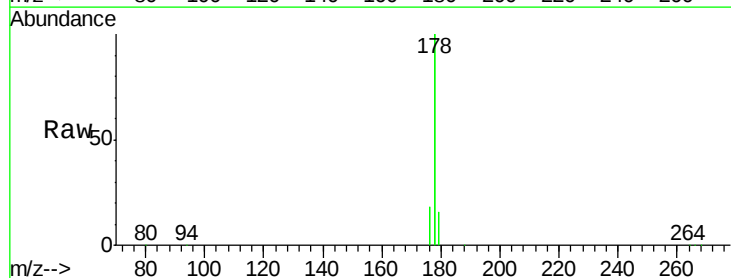
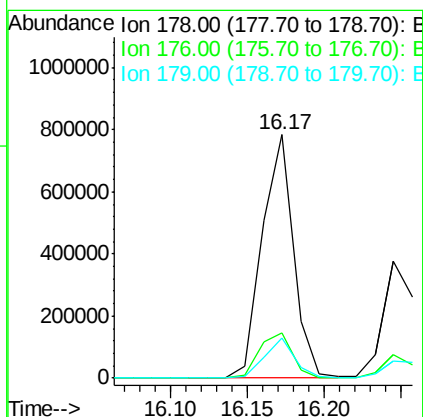
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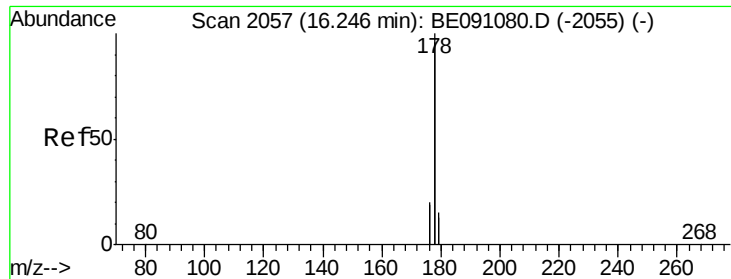
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#14  
**Phenanthrene**  
 Concen: 4.17 ng/ul  
 RT: 16.17 min Scan# 2051  
 Delta R.T. -0.00 min  
 Lab File: BE091090.D  
 Acq: 6 Nov 2015 14:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.4  | 16.2  | 24.4  |
| 179     | 16.2  | 12.8  | 19.2  |





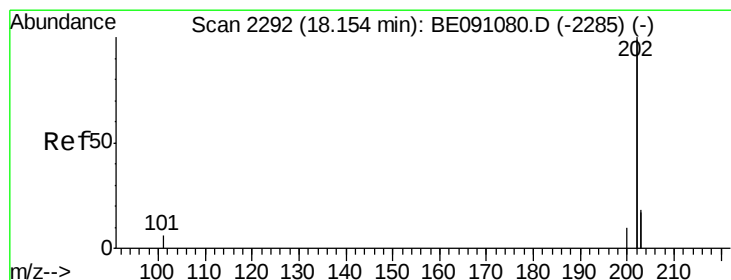
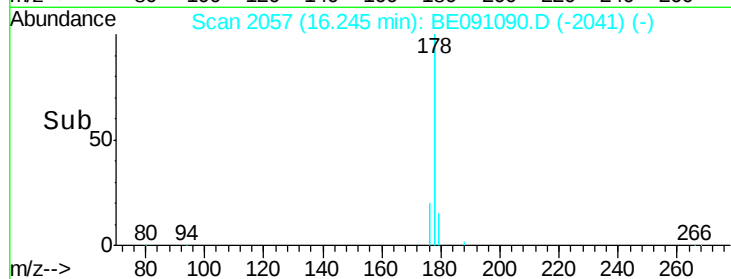
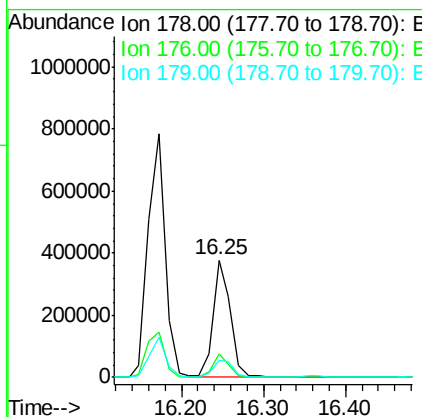
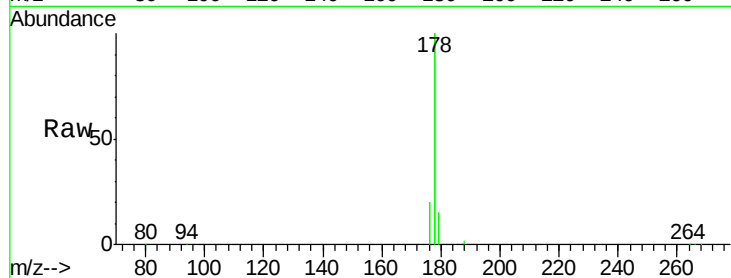
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 Anthracene  
 Concen: 2.31 ng/ul  
 RT: 16.25 min Scan# 2057  
 Delta R.T. -0.00 min  
 Lab File: BE091090.D  
 Acq: 6 Nov 2015 14:46

Instrument :  
 BNA\_E  
 ClientSampleId :  
 C0AP6DL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.7  | 15.8  | 23.8  |
| 179     | 15.1  | 13.3  | 19.9  |

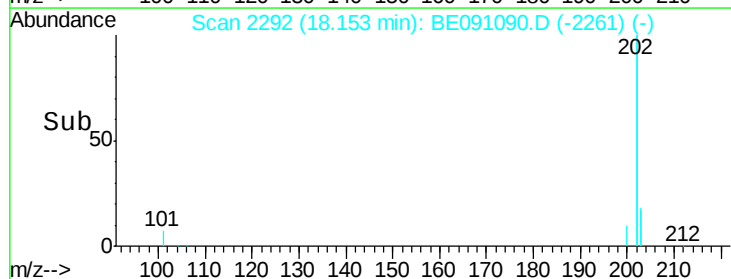
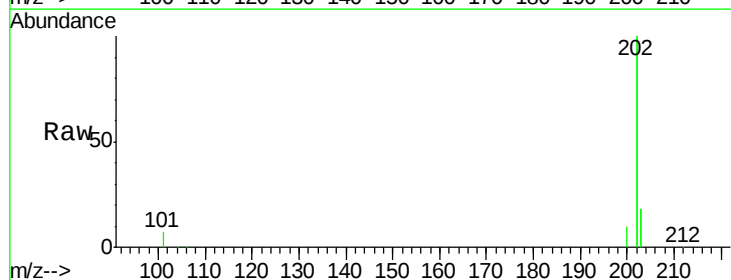
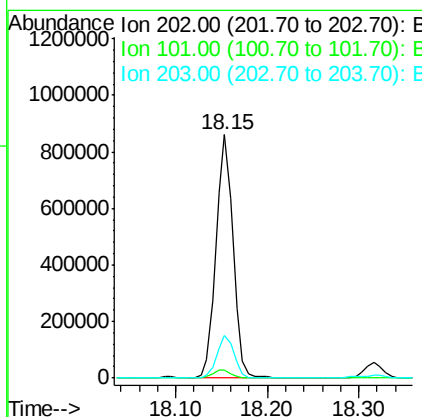
Manual Integrations  
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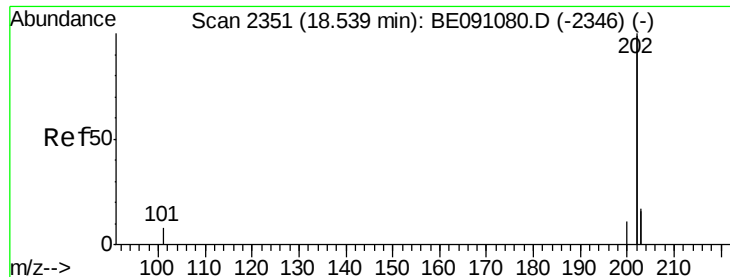
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#17  
 Fluoranthene  
 Concen: 3.54 ng/ul  
 RT: 18.15 min Scan# 2292  
 Delta R.T. -0.00 min  
 Lab File: BE091090.D  
 Acq: 6 Nov 2015 14:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 3.4   | 0.0   | 33.1  |
| 203     | 17.5  | 0.0   | 37.2  |





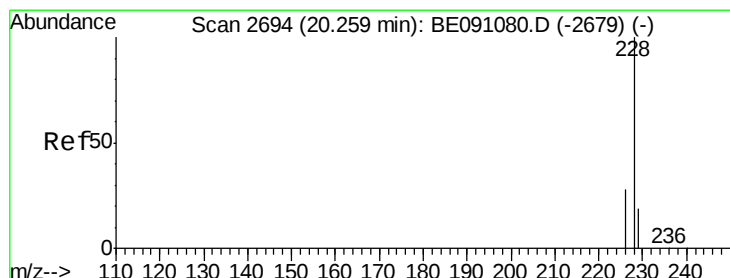
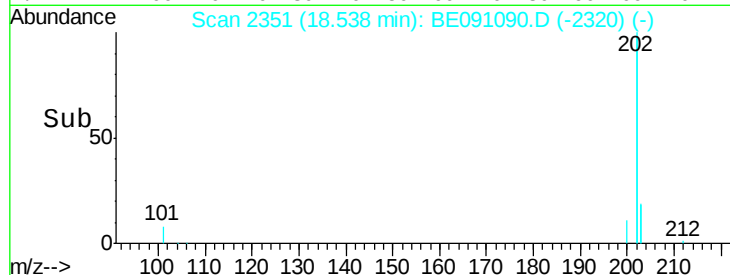
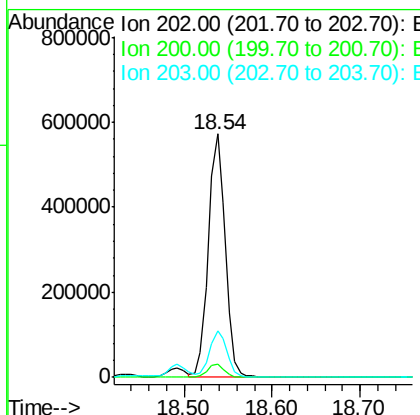
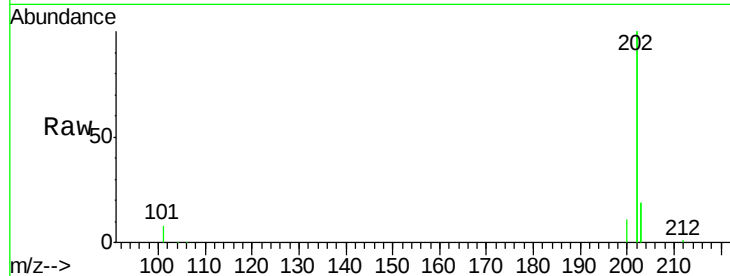
#19  
Pyrene  
Concen: 2.63 ng/ul  
RT: 18.54 min Scan# 2351  
Delta R.T. -0.00 min  
Lab File: BE091090.D  
Acq: 6 Nov 2015 14:46

Instrument :  
BNA\_E  
ClientSampleId :  
C0AP6DL

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 202     | 100   |            |            |
| 200     | 5.4   | 18.0       | 27.0#      |
| 203     | 19.0  | 13.8       | 20.6       |

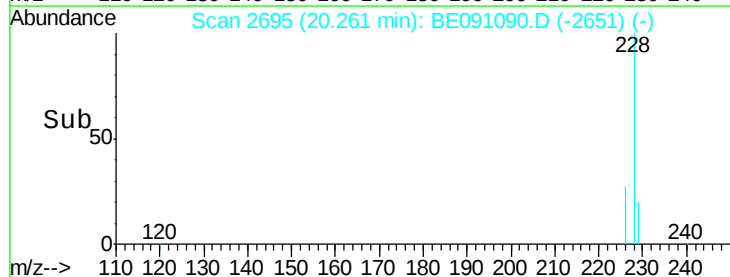
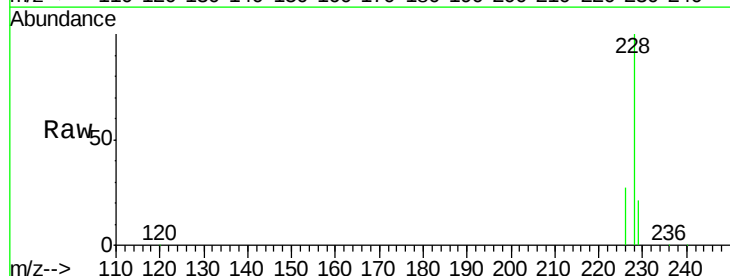
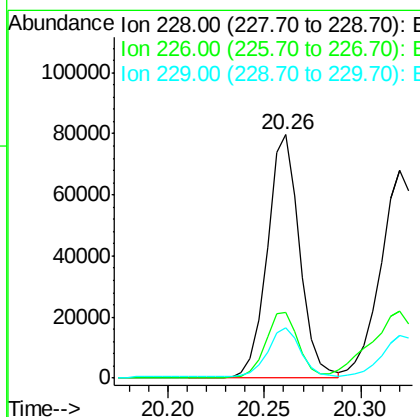
Manual Integrations  
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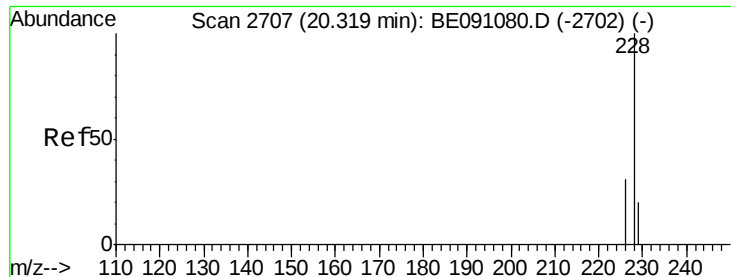
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#20  
Benzo(a)anthracene  
Concen: 1.41 ng/ul  
RT: 20.26 min Scan# 2695  
Delta R.T. 0.00 min  
Lab File: BE091090.D  
Acq: 6 Nov 2015 14:46

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 228     | 100   |            |            |
| 226     | 27.1  | 23.0       | 34.4       |
| 229     | 20.9  | 15.2       | 22.8       |





#21

Chrysene

Concen: 1.22 ng/ul

RT: 20.32 min Scan# 2708

Delta R.T. 0.00 min

Lab File: BE091090.D

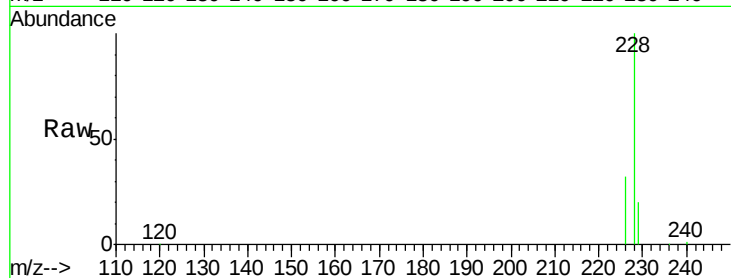
Acq: 6 Nov 2015 14:46

Instrument :

BNA\_E

ClientSampleId :

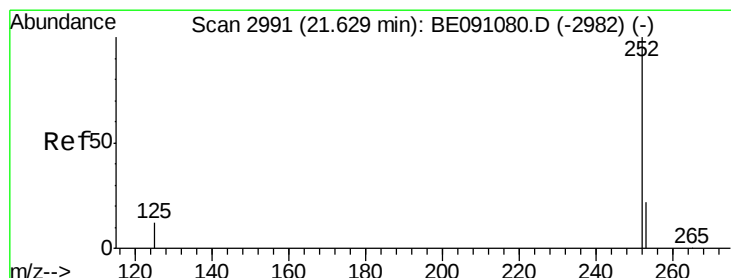
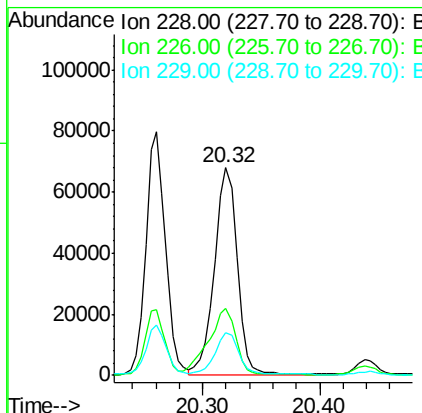
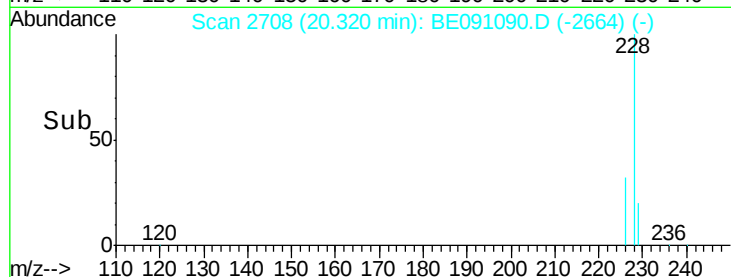
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|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 91660 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 32.0  | 25.7  | 38.5  |
| 229       | 20.4  | 15.2  | 22.8  |

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#23

Benzo(b)fluoranthene

Concen: 0.68 ng/ul

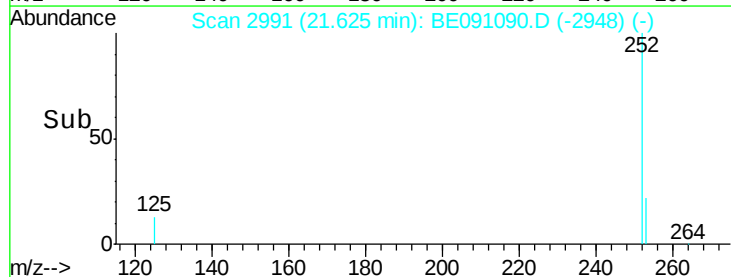
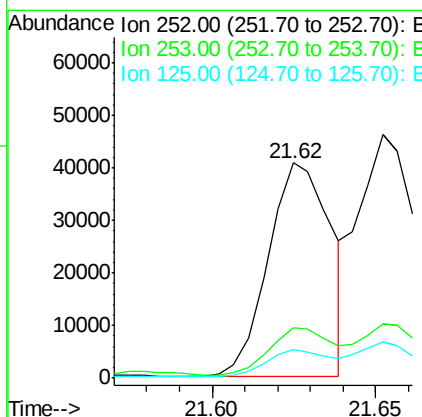
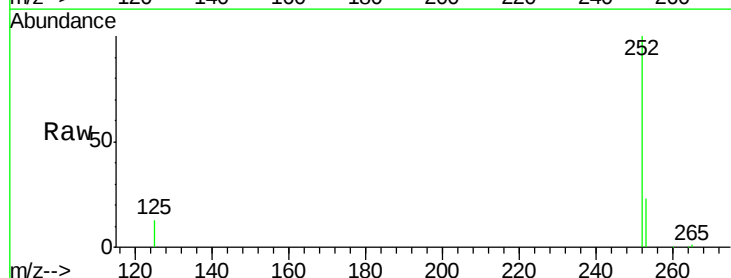
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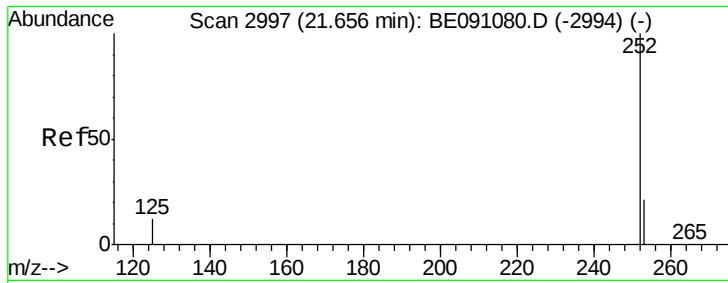
Delta R.T. -0.00 min

Lab File: BE091090.D

Acq: 6 Nov 2015 14:46

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 54012 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 23.2  | 0.0   | 48.0  |
| 125       | 13.5  | 0.0   | 36.6  |





#24

Benzo(k)fluoranthene

Concen: 0.75 ng/ul

RT: 21.65 min Scan# 2997

Delta R.T. -0.00 min

Lab File: BE091090.D

Acq: 6 Nov 2015 14:46

Instrument :

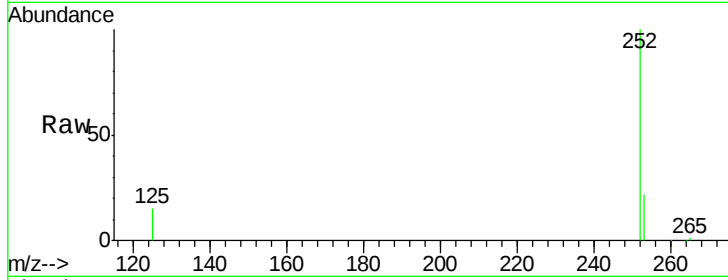
BNA\_E

ClientSampleId :

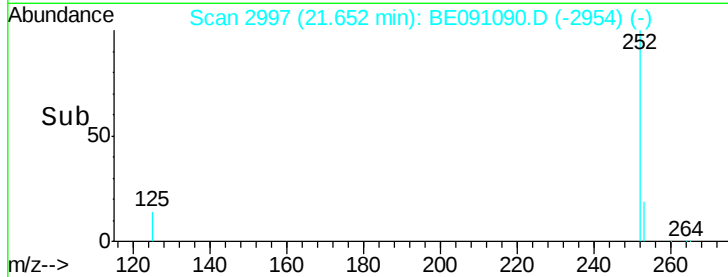
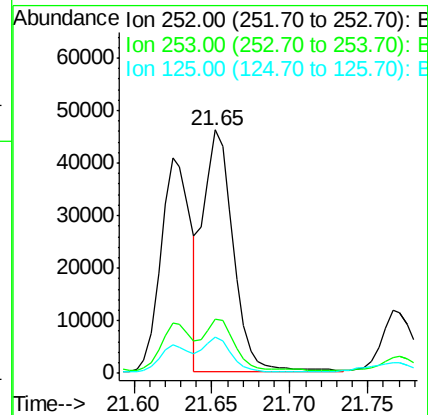
C0AP6DL

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| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.2  | 20.8  | 31.2  |
| 125     | 15.0  | 12.2  | 18.4  |



#25

Benzo(a)pyrene

Concen: 0.84 ng/ul m

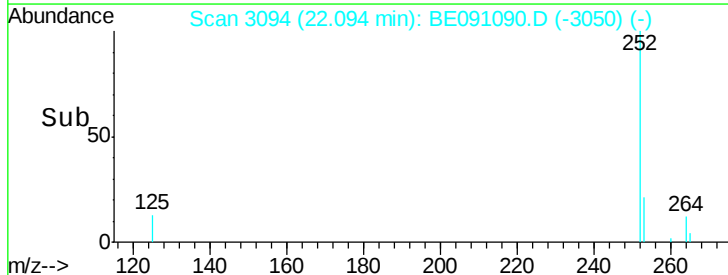
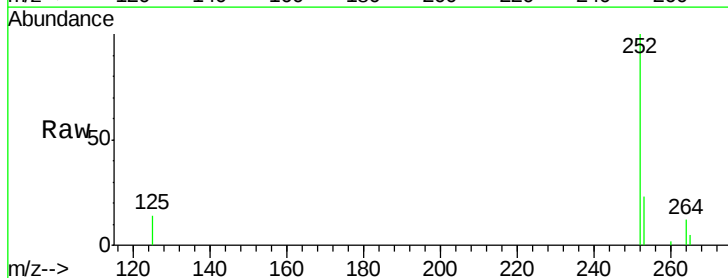
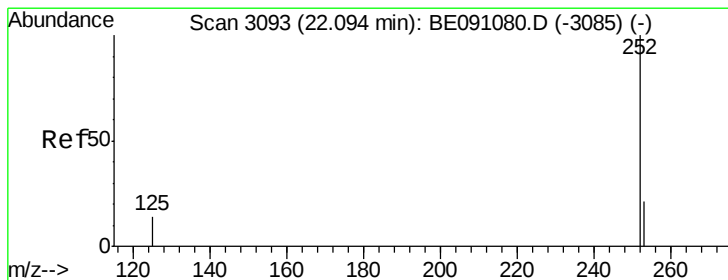
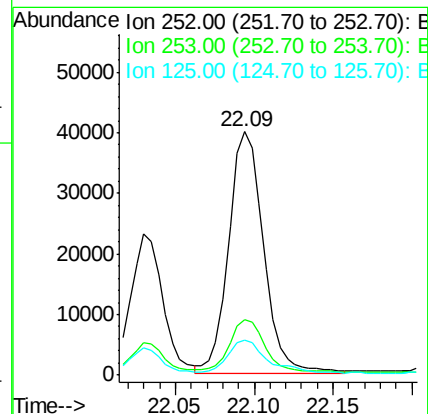
RT: 22.09 min Scan# 3094

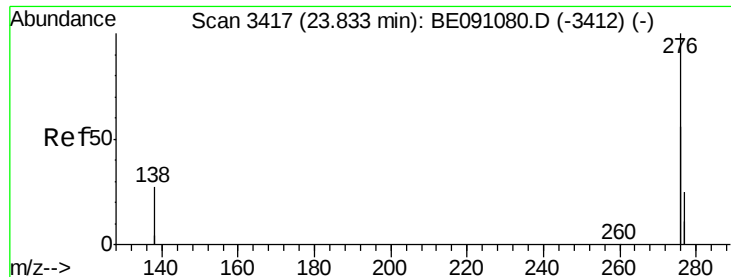
Delta R.T. 0.00 min

Lab File: BE091090.D

Acq: 6 Nov 2015 14:46

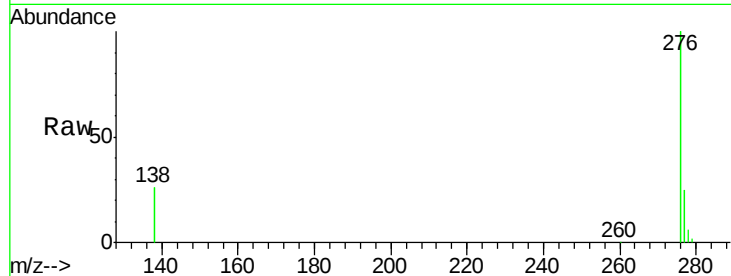
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.6  | 21.8  | 32.8  |
| 125     | 14.2  | 14.5  | 21.7# |





#26  
 Indeno(1,2,3-cd)pyrene  
 Concen: 0.38 ng/ul m  
 RT: 23.83 min Scan# 3418  
 Delta R.T. 0.00 min  
 Lab File: BE091090.D  
 Acq: 6 Nov 2015 14:46

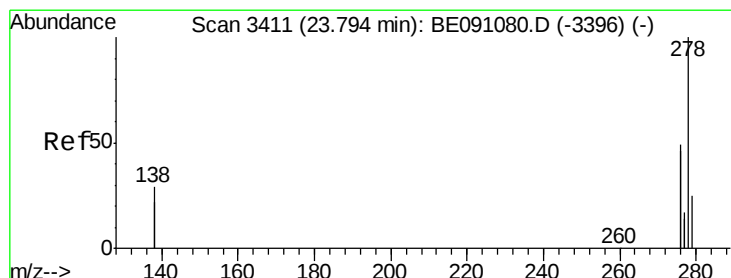
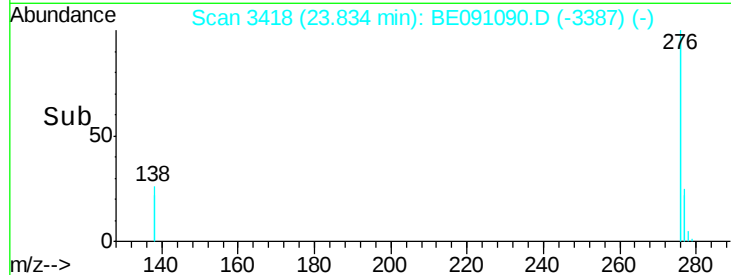
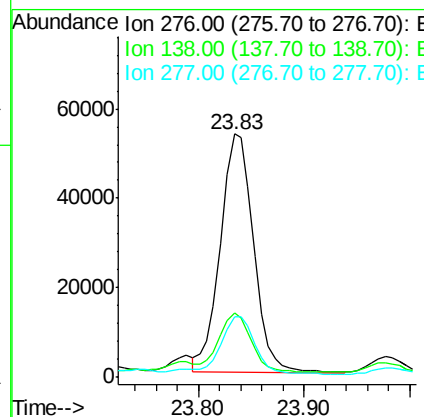
Instrument :  
 BNA\_E  
 ClientSampleId :  
 C0AP6DL



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 24.1  | 27.5  | 41.3# |
| 277     | 26.0  | 19.3  | 28.9  |

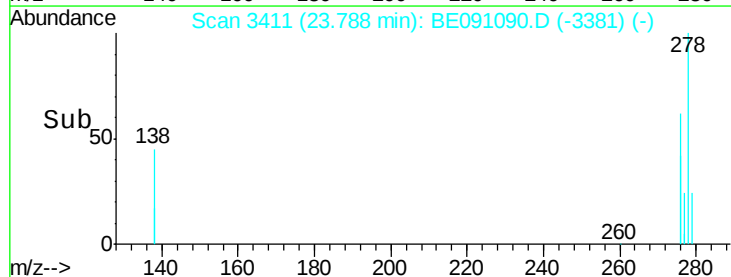
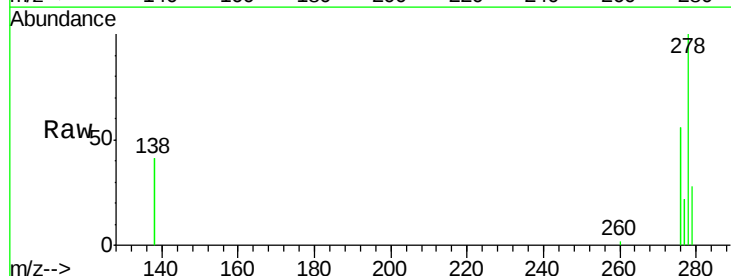
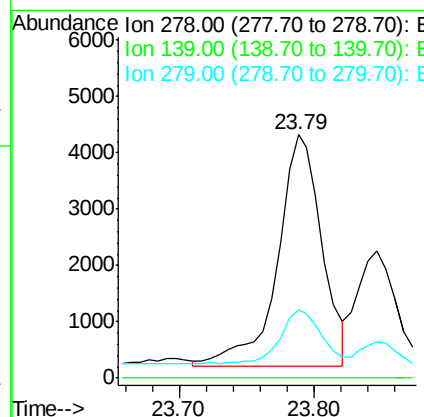
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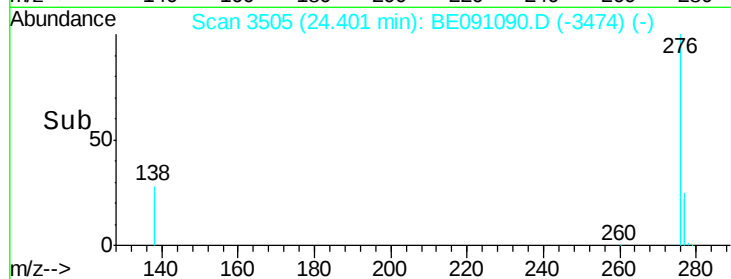
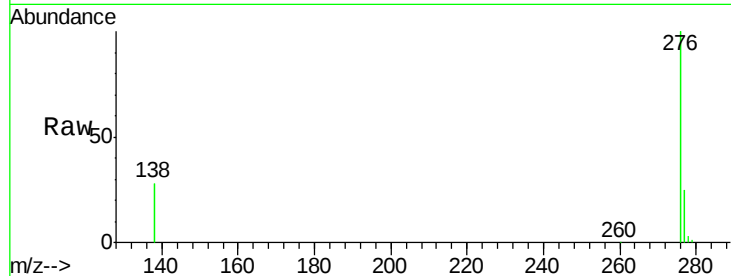
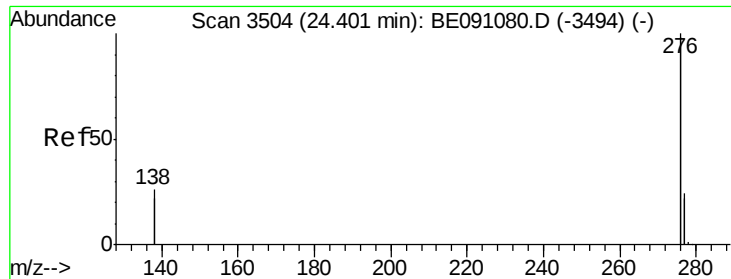
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#27  
 Dibenzo(a,h)anthracene  
 Concen: 0.13 ng/ul  
 RT: 23.79 min Scan# 3411  
 Delta R.T. -0.01 min  
 Lab File: BE091090.D  
 Acq: 6 Nov 2015 14:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 0.0   | 21.7  | 32.5# |
| 279     | 28.0  | 21.9  | 32.9  |





#28

Benzo(g,h,i)perylene

Concen: 0.29 ng/ul

RT: 24.40 min Scan# 3505

Delta R.T. 0.00 min

Lab File: BE091090.D

Acq: 6 Nov 2015 14:46

Instrument :

BNA\_E

ClientSampleId :

C0AP6DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 91944 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 277       | 25.5  | 21.3  | 31.9  |
| 138       | 27.7  | 25.5  | 38.3  |

Manual Integrations  
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