

Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE111515\  
 Data File : BE091167.D  
 Acq On : 15 Nov 2015 11:39  
 Operator : UM/NP  
 Sample : G4322-06DL 5X  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 A4HR7DL

Manual Integrations  
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 11/16/2015 3:27:04 PM

Quant Time: Nov 16 06:33:18 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 16 04:54:02 2015  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.90  | 152  | 7208     | 0.40   | ng/ul  | -0.03    |
| 4) Naphthalene-d8           | 9.58  | 136  | 35242    | 0.40   | ng/ul  | 0.00     |
| 8) Acenaphthene-d10         | 13.39 | 164  | 20577    | 0.40   | ng/ul  | 0.00     |
| 12) Phenanthrene-d10        | 16.10 | 188  | 52022    | 0.40   | ng/ul  | 0.00     |
| 18) Chrysene-d12            | 20.23 | 240  | 87258    | 0.40   | ng/ul  | 0.00     |
| 22) Perylene-d12            | 22.12 | 264  | 83034    | 0.40   | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 2) 1,4-Dioxane-d8           | 3.16  | 96   | 2419m    | 0.47   | ng/uL  | 0.07     |
| 6) 2-Methylnaphthalene-d10  | 11.11 | 152  | 451      | 0.01   | ng/ul  | 0.02     |
| 16) Fluoranthene-d10        | 18.08 | 212  | 1173     | 0.01   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Qvalue |        |          |
| 5) Naphthalene              | 9.62  | 128  | 17414    | 0.20   | ng/ul  | 98       |
| 7) 2-Methylnaphthalene      | 11.18 | 142  | 1754     | 0.03   | ng/ul  | 96       |
| 14) Phenanthrene            | 16.14 | 178  | 134980   | 0.22   | ng/ul  | 96       |
| 15) Anthracene              | 16.22 | 178  | 27036m   | 0.05   | ng/ul  |          |
| 17) Fluoranthene            | 18.11 | 202  | 180148   | 0.26   | ng/ul  | 87       |
| 19) Pyrene                  | 18.49 | 202  | 152972   | 0.15   | ng/ul# | 78       |
| 20) Benzo(a)anthracene      | 20.21 | 228  | 21419    | 0.10   | ng/ul# | 94       |
| 21) Chrysene                | 20.27 | 228  | 26610    | 0.10   | ng/ul# | 96       |
| 23) Benzo(b)fluoranthene    | 21.57 | 252  | 18334    | 0.07   | ng/ul  | 92       |
| 24) Benzo(k)fluoranthene    | 21.59 | 252  | 21410    | 0.08   | ng/ul# | 88       |
| 25) Benzo(a)pyrene          | 22.02 | 252  | 20372    | 0.09   | ng/ul# | 93       |
| 26) Indeno(1,2,3-cd)pyrene  | 23.73 | 276  | 54128    | 0.05   | ng/ul# | 91       |
| 28) Benzo(g,h,i)perylene    | 24.28 | 276  | 51548    | 0.05   | ng/ul  | 96       |

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

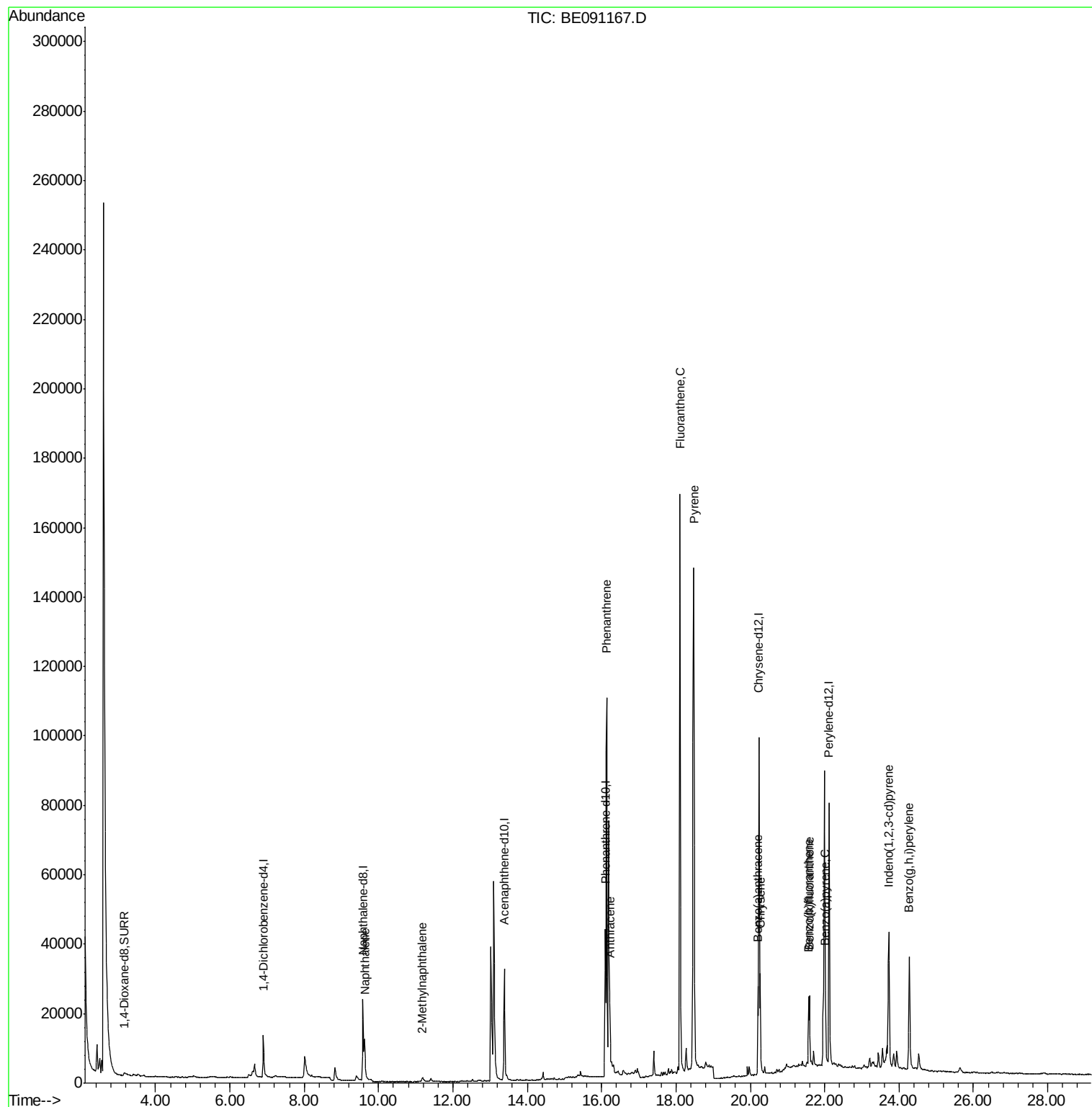
Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE111515\  
Data File : BE091167.D  
Acq On : 15 Nov 2015 11:39  
Operator : UM/NP  
Sample : G4322-06DL 5X  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

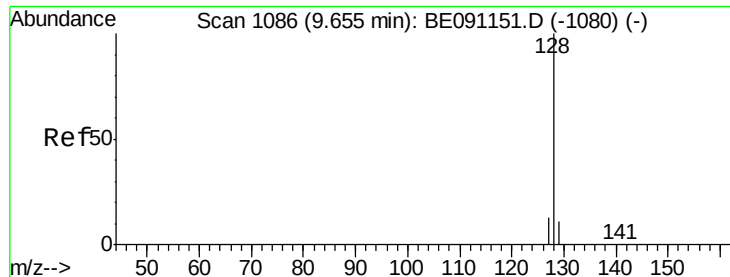
Instrument :  
BNA\_E  
ClientSampleId :  
A4HR7DL

Manual Integrations  
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Quant Time: Nov 16 06:33:18 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 16 04:54:02 2015  
Response via : Initial Calibration





#5

Naphthalene

Concen: 0.20 ng/ul

RT: 9.62 min Scan# 1082

Delta R.T. -0.01 min

Lab File: BE091167.D

Acq: 15 Nov 2015 11:39

Instrument :

BNA\_E

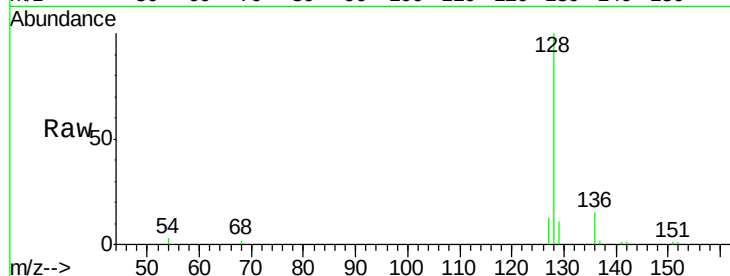
ClientSampleId :

A4HR7DL

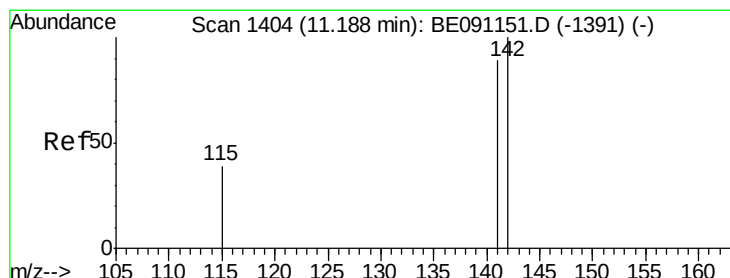
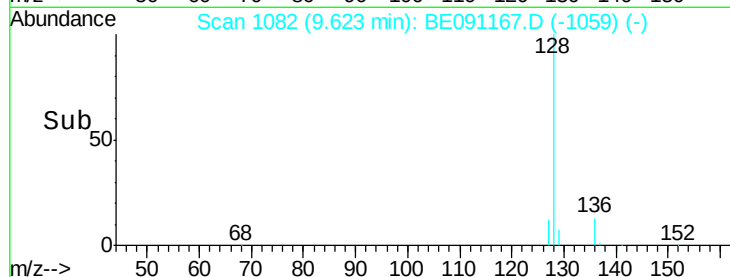
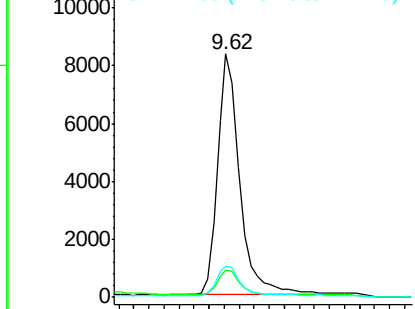
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 128   | Resp: | 17414 |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 129       | 11.4  | 9.8   | 14.8  |
| 127       | 13.0  | 10.7  | 16.1  |

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Abundance Ion 128.00 (127.70 to 128.70): E  
Ion 129.00 (128.70 to 129.70): E  
Ion 127.00 (126.70 to 127.70): E



#7

2-Methylnaphthalene

Concen: 0.03 ng/ul

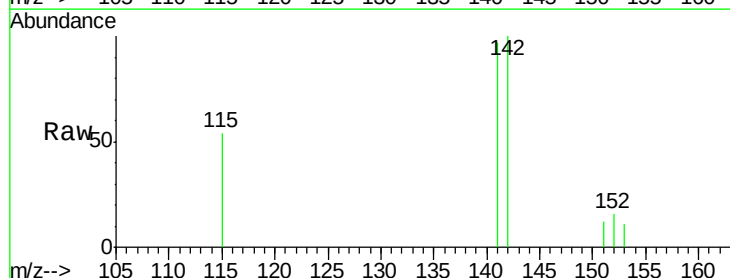
RT: 11.18 min Scan# 1402

Delta R.T. 0.02 min

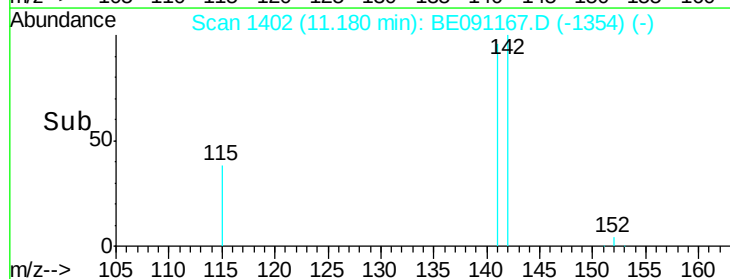
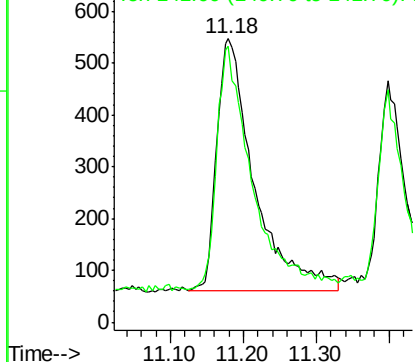
Lab File: BE091167.D

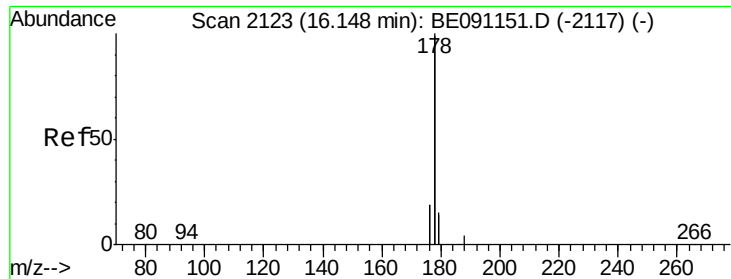
Acq: 15 Nov 2015 11:39

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 142   | Resp: | 1754  |
| Ion Ratio | Lower | Upper |       |
| 142       | 100   |       |       |
| 141       | 91.4  | 70.3  | 105.5 |



Abundance Ion 142.00 (141.70 to 142.70): E  
Ion 141.00 (140.70 to 141.70): E





#14

Phenanthrene

Concen: 0.22 ng/ul

RT: 16.14 min Scan# 2122

Delta R.T. 0.00 min

Lab File: BE091167.D

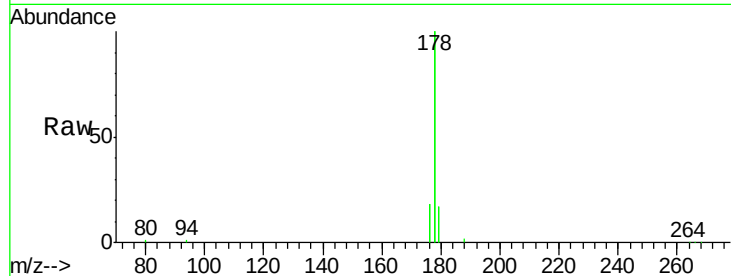
Acq: 15 Nov 2015 11:39

Instrument :

BNA\_E

ClientSampleId :

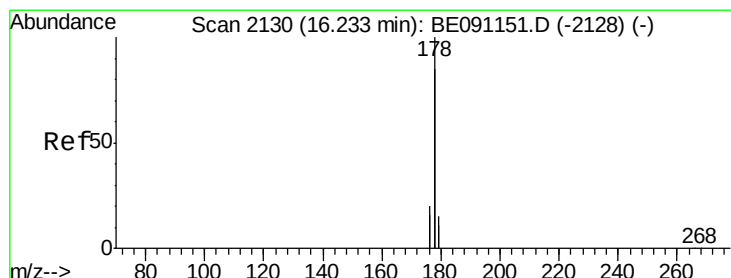
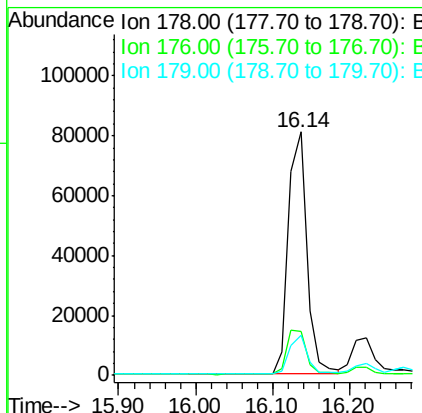
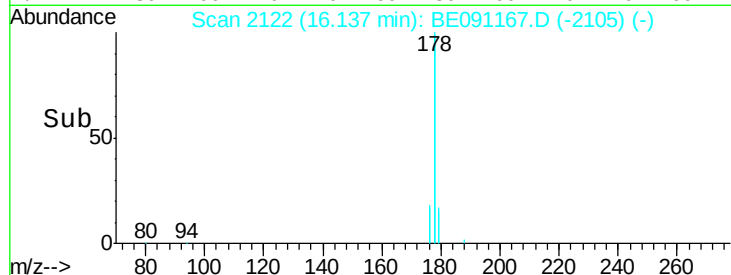
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| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 17.8  | 16.2  | 24.4  |
| 179     | 16.5  | 12.8  | 19.2  |

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#15

Anthracene

Concen: 0.05 ng/ul m

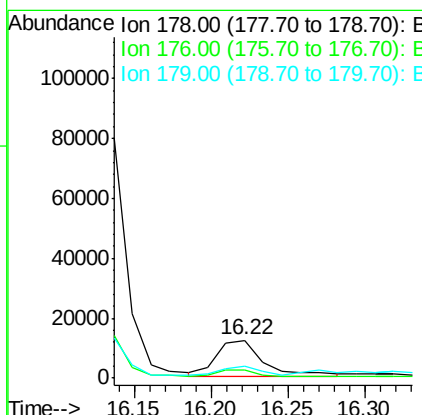
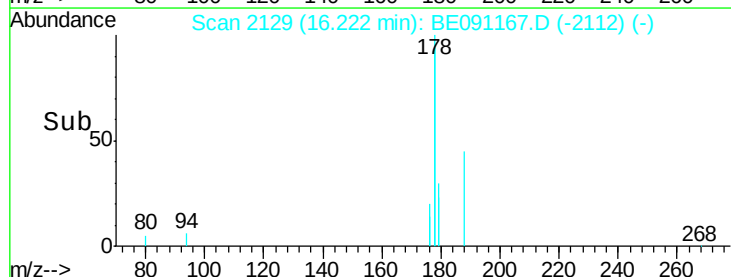
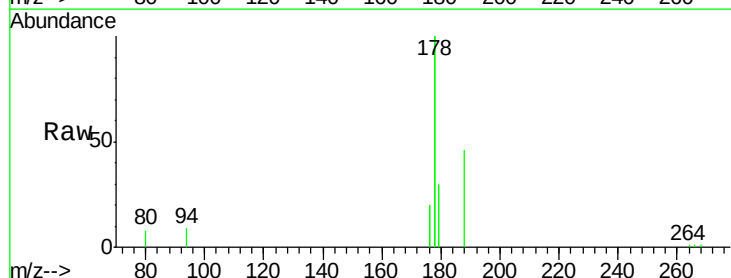
RT: 16.22 min Scan# 2129

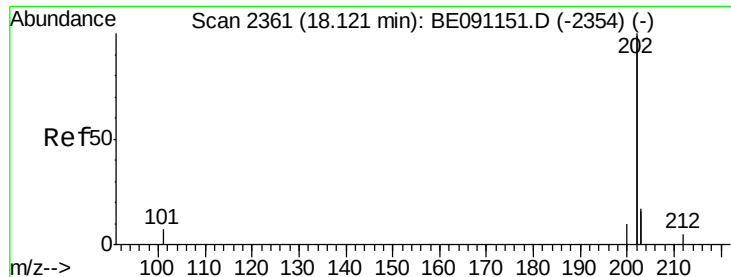
Delta R.T. 0.00 min

Lab File: BE091167.D

Acq: 15 Nov 2015 11:39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 20.1  | 15.8  | 23.8  |
| 179     | 30.4  | 13.3  | 19.9# |





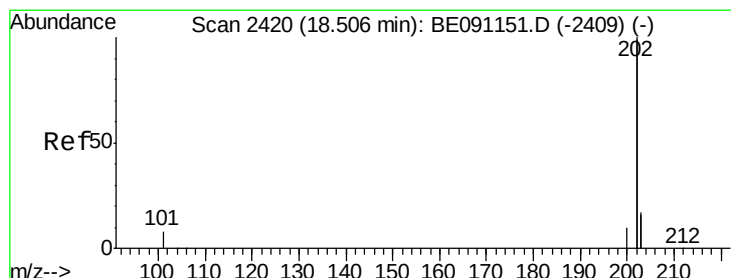
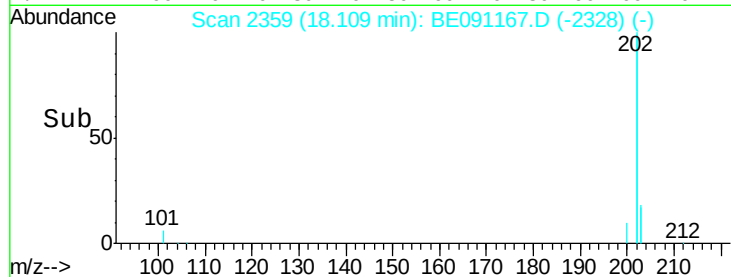
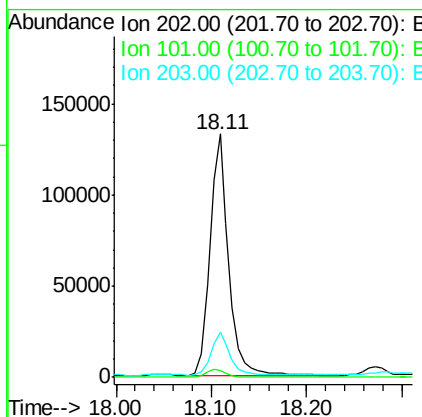
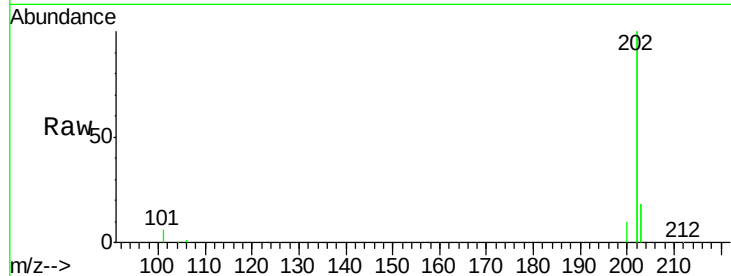
#17  
Fluoranthene  
Concen: 0.26 ng/ul  
RT: 18.11 min Scan# 2359  
Delta R.T. 0.00 min  
Lab File: BE091167.D  
Acq: 15 Nov 2015 11:39

Instrument :  
BNA\_E  
ClientSampleId :  
A4HR7DL

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 202     | 100   |            |            |
| 101     | 3.0   | 0.0        | 33.1       |
| 203     | 18.4  | 0.0        | 37.2       |

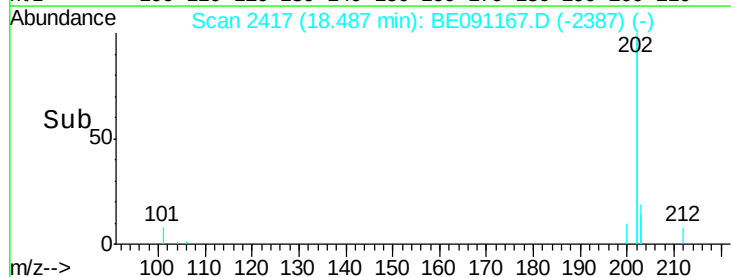
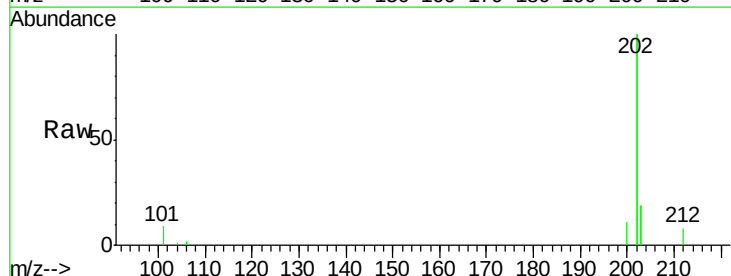
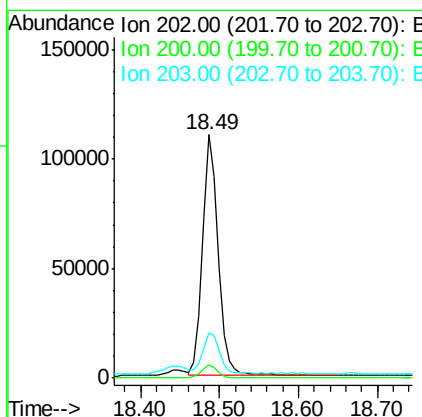
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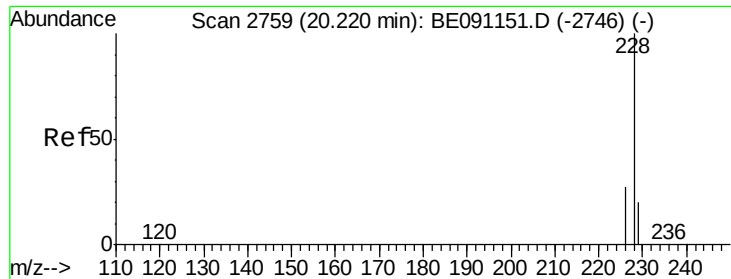
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#19  
Pyrene  
Concen: 0.15 ng/ul  
RT: 18.49 min Scan# 2417  
Delta R.T. -0.01 min  
Lab File: BE091167.D  
Acq: 15 Nov 2015 11:39

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 202     | 100   |            |            |
| 200     | 5.3   | 18.0       | 27.0#      |
| 203     | 18.6  | 13.8       | 20.6       |





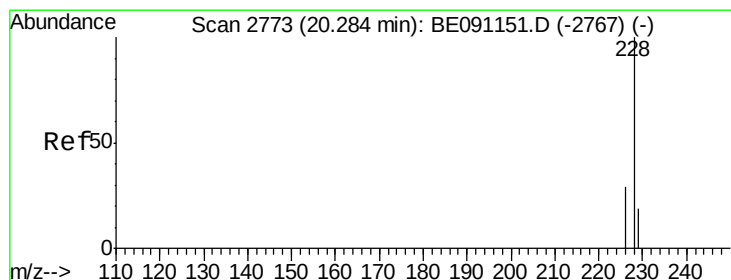
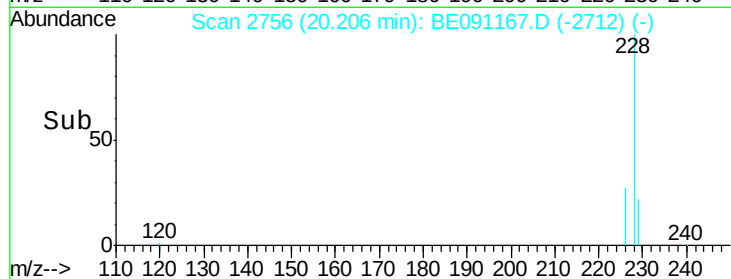
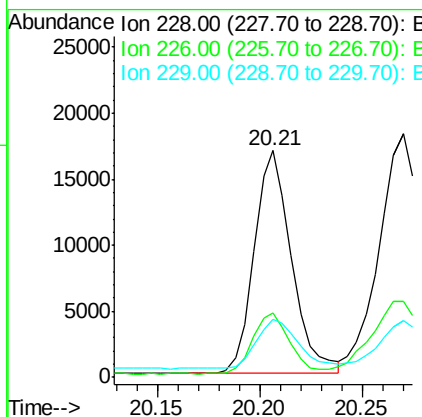
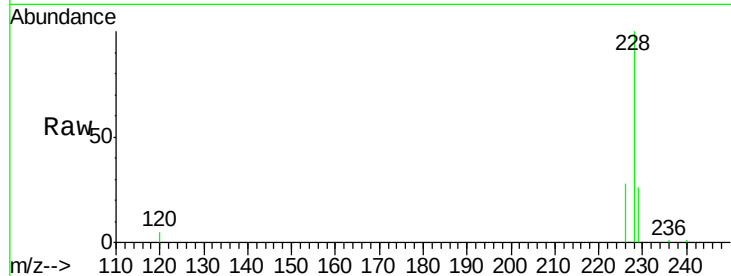
#20  
Benzo(a)anthracene  
Concen: 0.10 ng/ul  
RT: 20.21 min Scan# 2756  
Delta R.T. 0.00 min  
Lab File: BE091167.D  
Acq: 15 Nov 2015 11:39

Instrument :  
BNA\_E  
ClientSampleId :  
A4HR7DL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 28.5  | 23.0  | 34.4  |
| 229     | 25.8  | 15.2  | 22.8  |

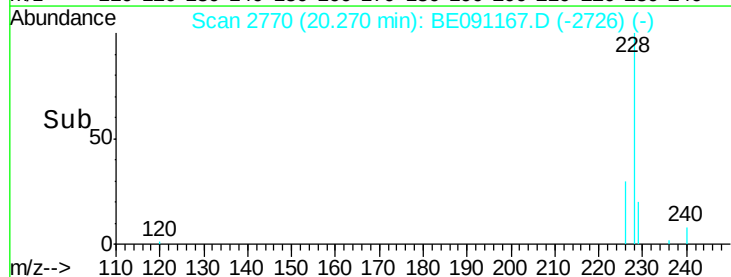
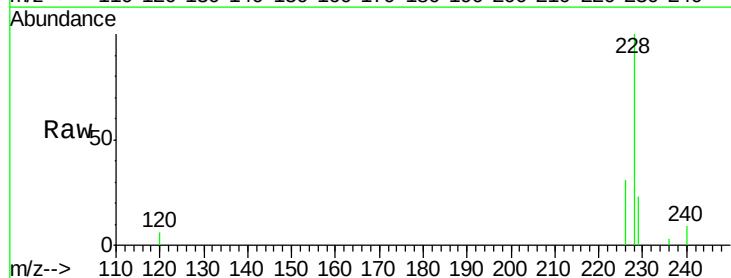
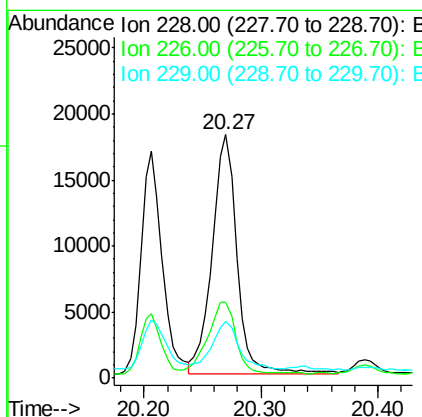
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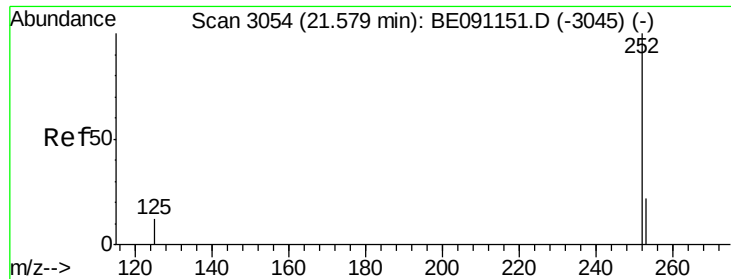
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#21  
Chrysene  
Concen: 0.10 ng/ul  
RT: 20.27 min Scan# 2770  
Delta R.T. 0.00 min  
Lab File: BE091167.D  
Acq: 15 Nov 2015 11:39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 31.3  | 25.7  | 38.5  |
| 229     | 23.2  | 15.2  | 22.8  |





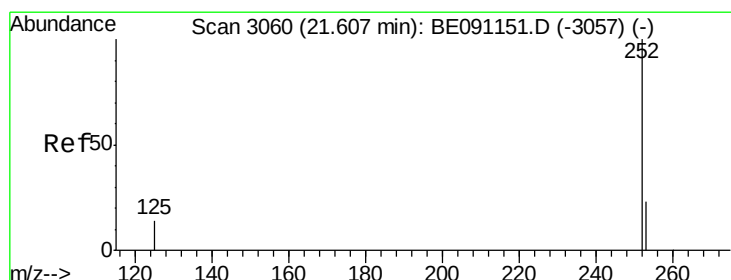
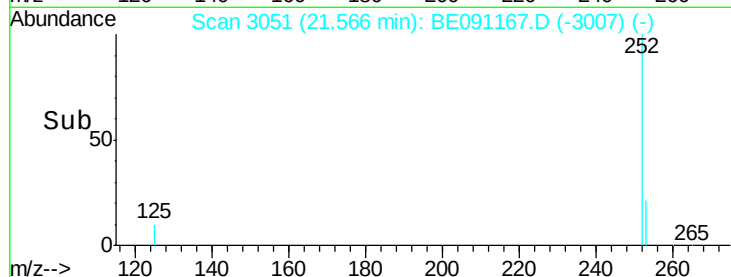
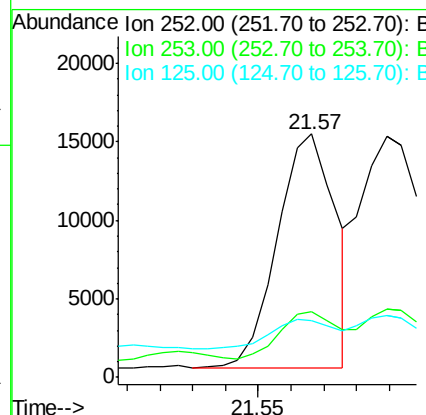
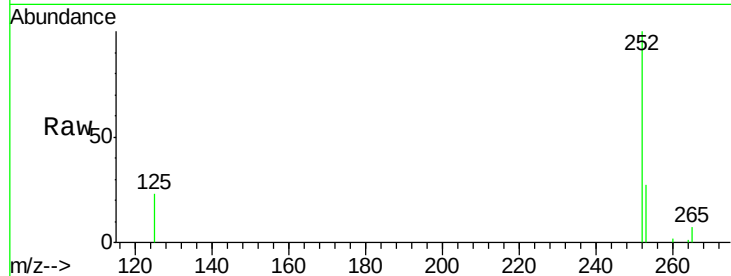
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Benzo(b)fluoranthene  
Concen: 0.07 ng/ul  
RT: 21.57 min Scan# 3051  
Delta R.T. 0.00 min  
Lab File: BE091167.D  
Acq: 15 Nov 2015 11:39

Instrument :  
BNA\_E  
ClientSampleId :  
A4HR7DL

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 252     | 100   |            |            |
| 253     | 26.9  | 0.0        | 48.0       |
| 125     | 23.2  | 0.0        | 36.6       |

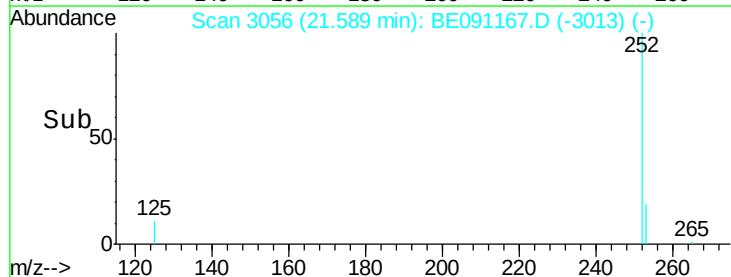
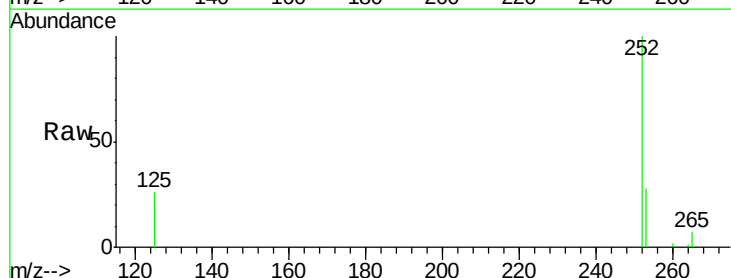
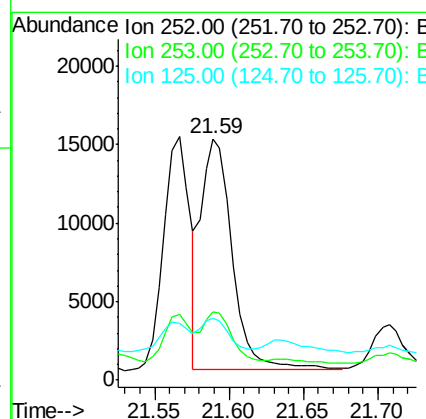
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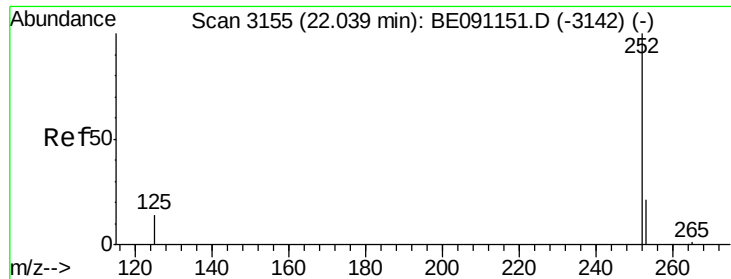
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#24  
Benzo(k)fluoranthene  
Concen: 0.08 ng/ul  
RT: 21.59 min Scan# 3056  
Delta R.T. -0.00 min  
Lab File: BE091167.D  
Acq: 15 Nov 2015 11:39

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 252     | 100   |            |            |
| 253     | 28.2  | 20.8       | 31.2       |
| 125     | 25.8  | 12.2       | 18.4#      |





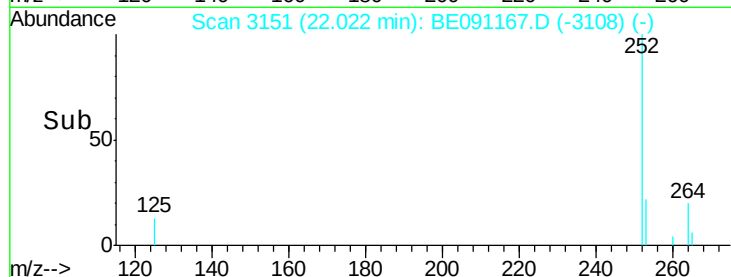
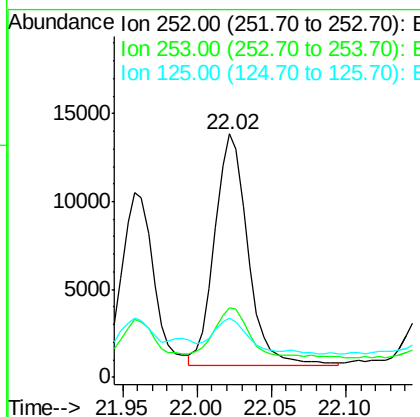
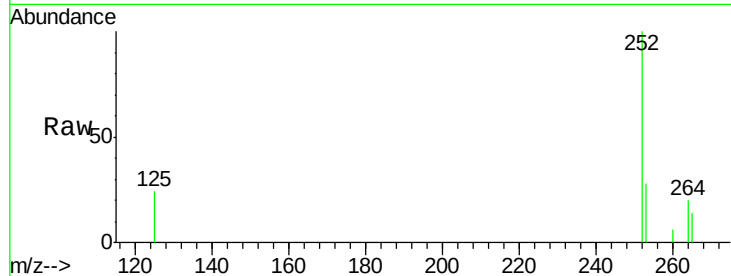
#25  
Benzo(a)pyrene  
Concen: 0.09 ng/ul  
RT: 22.02 min Scan# 3151  
Delta R.T. -0.00 min  
Lab File: BE091167.D  
Acq: 15 Nov 2015 11:39

Instrument :  
BNA\_E  
ClientSampleId :  
A4HR7DL

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 252     | 100   | 20372 |       |       |
| 253     | 28.5  | 21.8  | 32.8  |       |
| 125     | 24.2  | 14.5  | 21.7# |       |

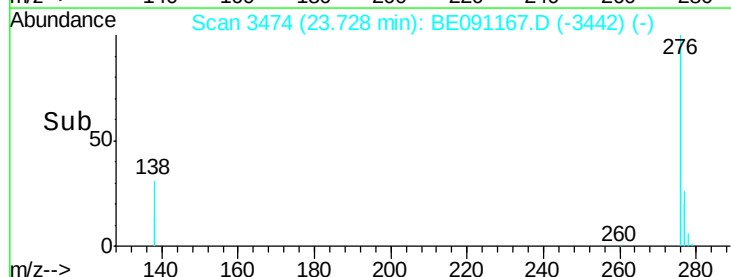
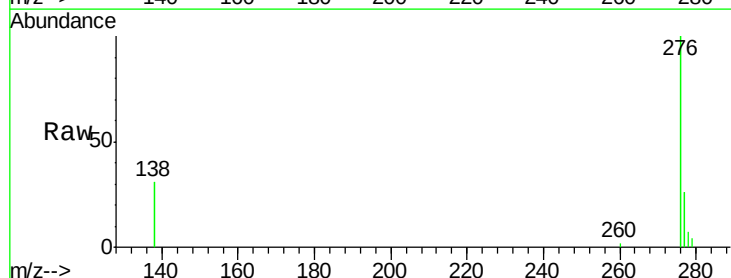
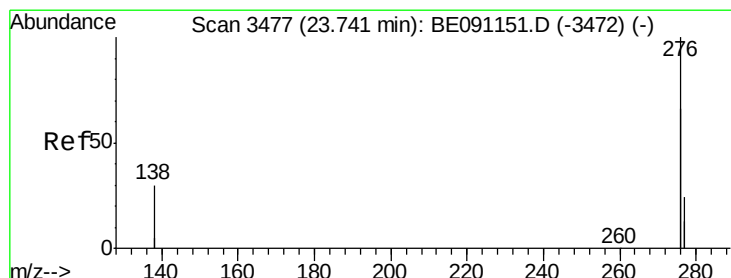
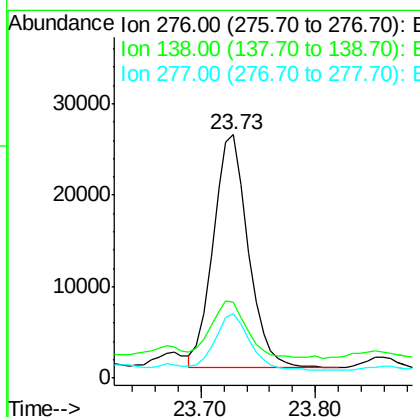
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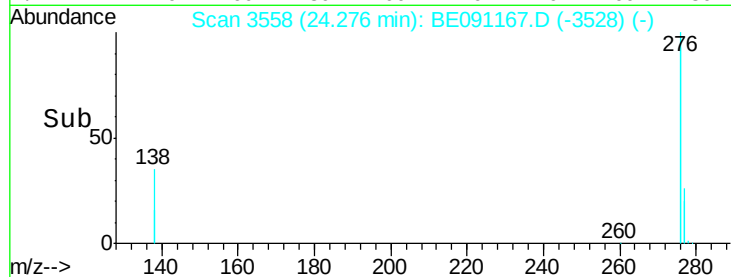
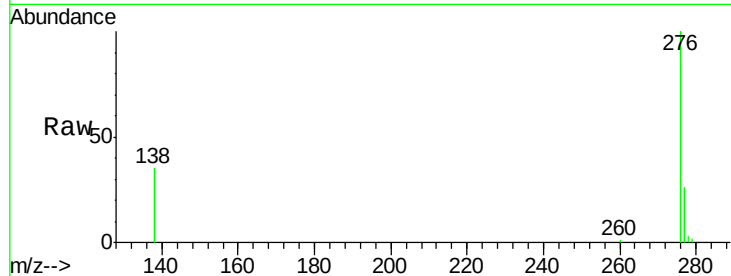
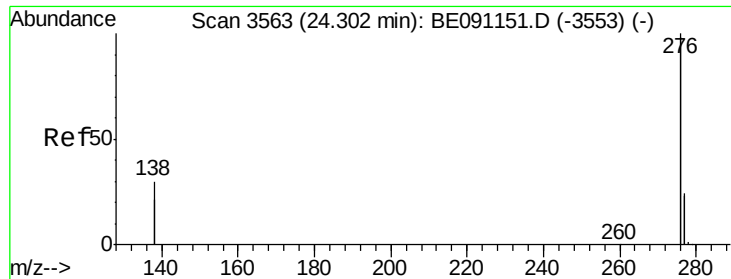


#26  
Indeno(1,2,3-cd)pyrene  
Concen: 0.05 ng/ul  
RT: 23.73 min Scan# 3474  
Delta R.T. 0.01 min  
Lab File: BE091167.D  
Acq: 15 Nov 2015 11:39

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 276     | 100   | 54128 |       |       |
| 138     | 25.5  | 27.5  | 41.3# |       |
| 277     | 23.8  | 19.3  | 28.9  |       |







#28

Benzo(g,h,i)perylene

Concen: 0.05 ng/ul

RT: 24.28 min Scan# 3558

Delta R.T. -0.01 min

Lab File: BE091167.D

Acq: 15 Nov 2015 11:39

Instrument :

BNA\_E

ClientSampleId :

A4HR7DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 51548 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 277       | 26.0  | 21.3  | 31.9  |
| 138       | 35.3  | 25.5  | 38.3  |

Manual Integrations  
APPROVED

mmdadoda  
11/16/2015 3:27:04 PM

