

Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE081215\  
 Data File : BE090464.D  
 Acq On : 12 Aug 2015 13:06  
 Operator : UM/IZ  
 Sample : G3236-13  
 Misc :  
 ALS Vial : 31 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 080915-D534-E-D-B

Manual Integrations  
 APPROVED

MMDadoda  
 8/13/2015 3:35:11 PM

Quant Time: Aug 13 12:49:56 2015  
 Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\8270-SIM-BE080515.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Aug 06 12:28:08 2015  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc | Units | Dev(Min)       |
|--------------------------------|-------|------|----------|------|-------|----------------|
| 1) 1,4-Dichlorobenzene-d4      | 7.58  | 152  | 20279    | 5.00 | ng    | 0.00           |
| 6) Naphthalene-d8              | 10.34 | 136  | 93114    | 5.00 | ng    | 0.00           |
| 12) Acenaphthene-d10           | 14.19 | 164  | 53917    | 5.00 | ng    | 0.00           |
| 18) Phenanthrene-d10           | 16.94 | 188  | 128007   | 5.00 | ng    | 0.00           |
| 25) Chrysene-d12               | 21.09 | 240  | 149038   | 5.00 | ng    | 0.00           |
| 32) Perylene-d12               | 23.39 | 264  | 132105   | 5.00 | ng    | 0.00           |
| System Monitoring Compounds    |       |      |          |      |       |                |
| 4) 2-Fluorophenol              | 5.21  | 112  | 14323    | 4.71 | ng    | 0.00           |
| 5) Phenol-d6                   | 6.77  | 99   | 12911    | 2.14 | ng    | 0.00           |
| 7) Nitrobenzene-d5             | 8.73  | 82   | 26353    | 3.54 | ng    | 0.00           |
| 13) 2,4,6-Tribromophenol       | 15.71 | 330  | 16081    | 9.13 | ng    | 0.00           |
| 14) 2-Fluorobiphenyl           | 12.82 | 172  | 64733    | 4.37 | ng    | 0.00           |
| 27) Terphenyl-d14              | 19.55 | 244  | 125804   | 5.73 | ng    | -0.01          |
| Target Compounds               |       |      |          |      |       |                |
| 9) Naphthalene                 | 10.38 | 128  | 520      | 0.03 | ng    | Qvalue<br># 62 |
| 22) Phenanthrene               | 16.98 | 178  | 1220m    | 0.04 | ng    |                |
| 26) Pyrene                     | 19.34 | 202  | 1008     | 0.03 | ng    | 96             |
| 28) Benzo(a)anthracene         | 21.09 | 228  | 1100     | 0.03 | ng    | # 85           |
| 29) Chrysene                   | 21.13 | 228  | 889      | 0.02 | ng    | # 82           |
| 30) Bis(2-ethylhexyl)phthalate | 21.02 | 149  | 2435     | 0.41 | ng    | # 98           |

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

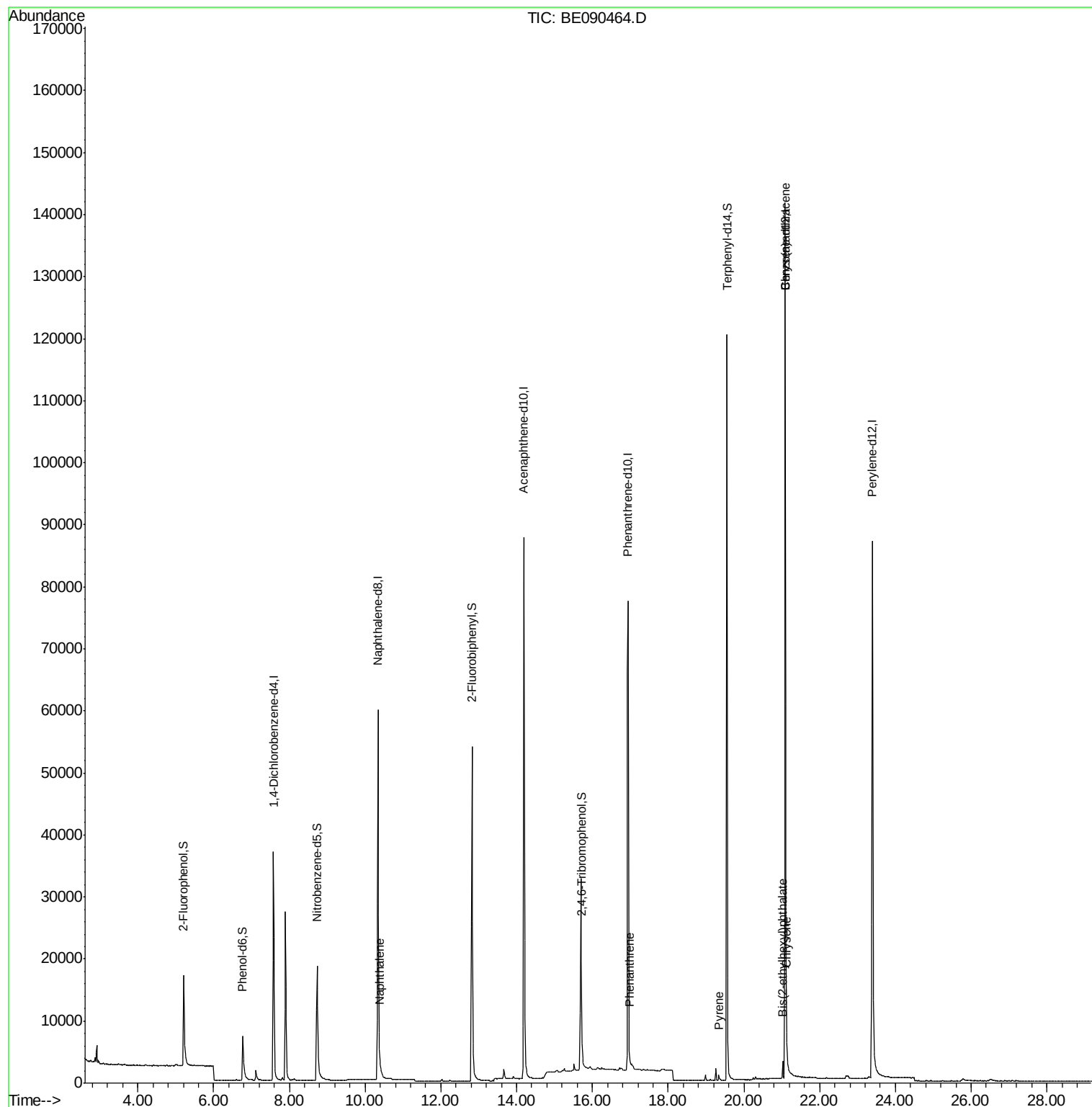
Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE081215\  
Data File : BE090464.D  
Acq On : 12 Aug 2015 13:06  
Operator : UM/IZ  
Sample : G3236-13  
Misc :  
ALS Vial : 31 Sample Multiplier: 1

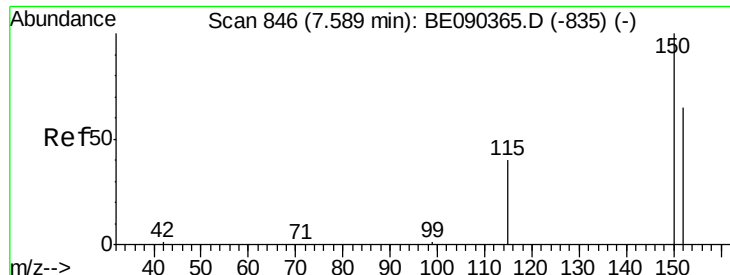
Instrument :  
BNA\_E  
ClientSampleId :  
080915-D534-E-D-B

Manual Integrations  
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8/13/2015 3:35:11 PM

Quant Time: Aug 13 12:49:56 2015  
Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\8270-SIM-BE080515.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Aug 06 12:28:08 2015  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.58 min Scan# 845

Delta R.T. -0.01 min

Lab File: BE090464.D

Acq: 12 Aug 2015 13:06

Instrument :

BNA\_E

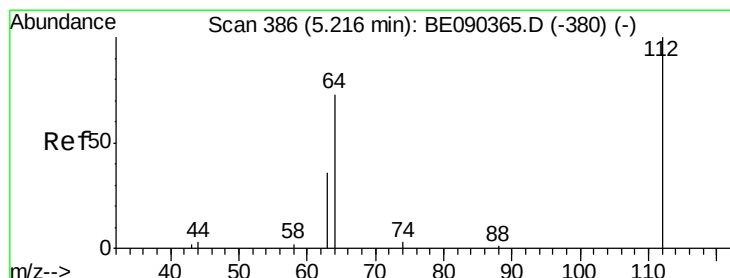
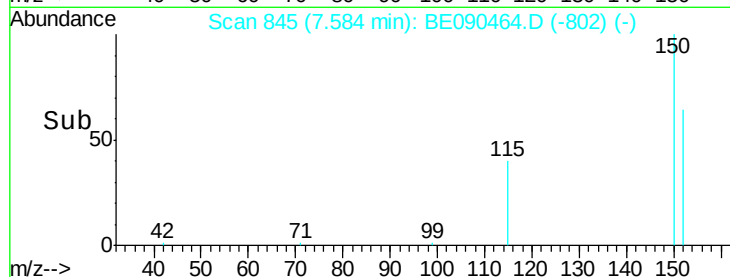
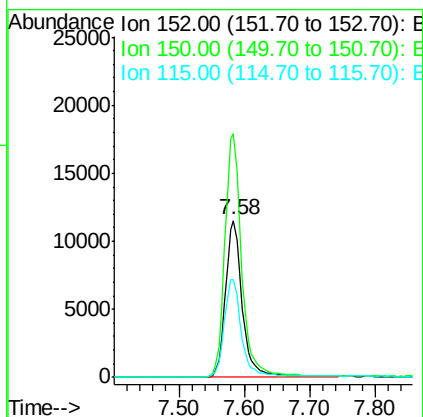
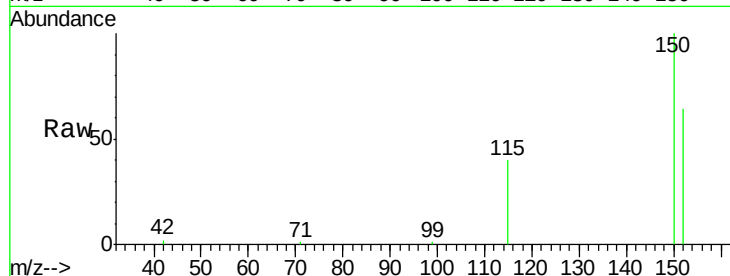
ClientSampleId :

080915-D534-E-D-B

Manual Integrations  
APPROVED

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8/13/2015 3:35:11 PM

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 152   | Resp: | 20279 |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 150       | 155.2 | 123.0 | 184.4 |
| 115       | 62.0  | 48.9  | 73.3  |



#4

2-Fluorophenol

Concen: 4.71 ng

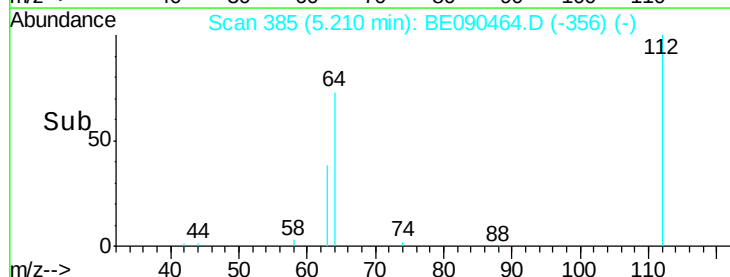
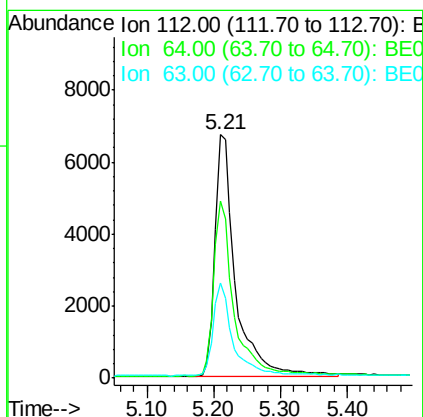
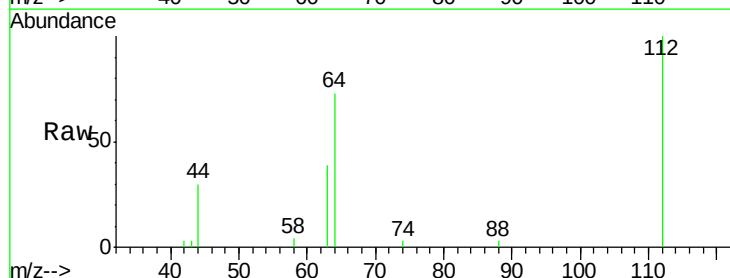
RT: 5.21 min Scan# 385

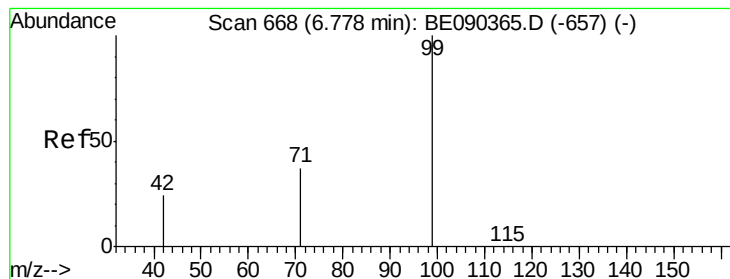
Delta R.T. -0.01 min

Lab File: BE090464.D

Acq: 12 Aug 2015 13:06

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 112   | Resp: | 14323 |
| Ion Ratio | Lower | Upper |       |
| 112       | 100   |       |       |
| 64        | 71.0  | 37.1  | 55.7# |
| 63        | 36.6  | 19.5  | 29.3# |





#5

Phenol-d6

Concen: 2.14 ng

RT: 6.77 min Scan# 666

Delta R.T. -0.01 min

Lab File: BE090464.D

Acq: 12 Aug 2015 13:06

Instrument :

BNA\_E

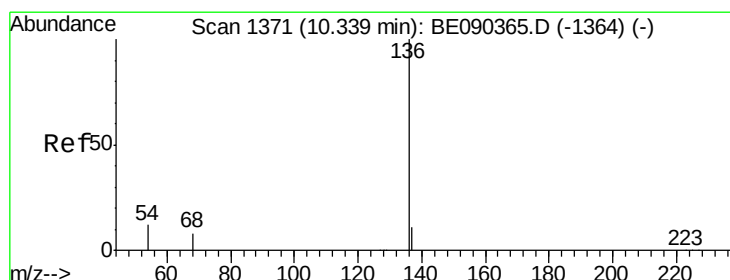
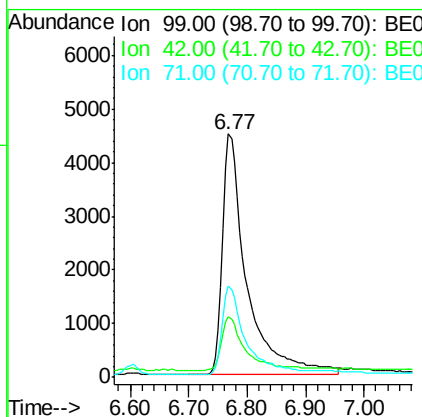
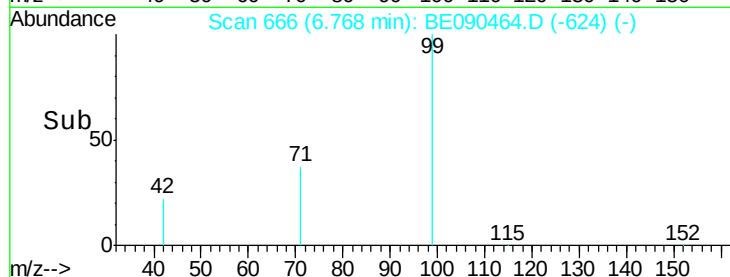
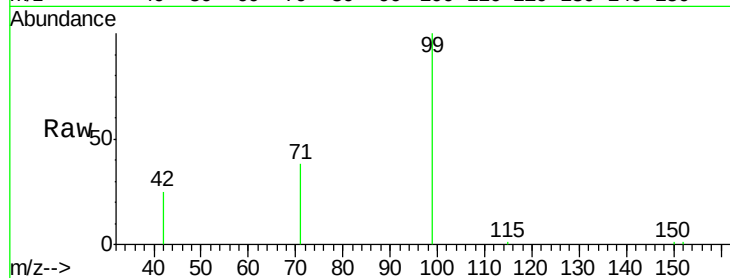
ClientSampleId :

080915-D534-E-D-B

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|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 99    | Resp: | 12911 |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 22.4  | 18.2  | 27.4  |
| 71       | 35.7  | 27.4  | 41.0  |



#6

Naphthalene-d8

Concen: 5.00 ng

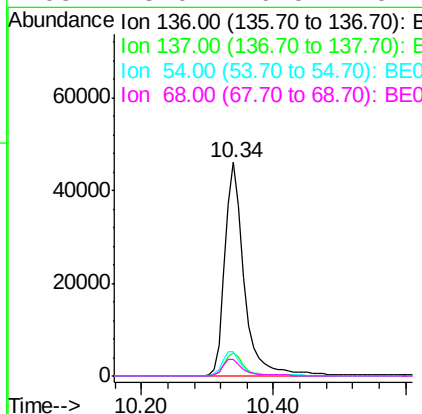
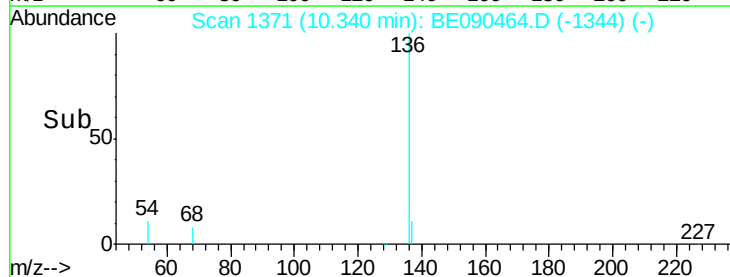
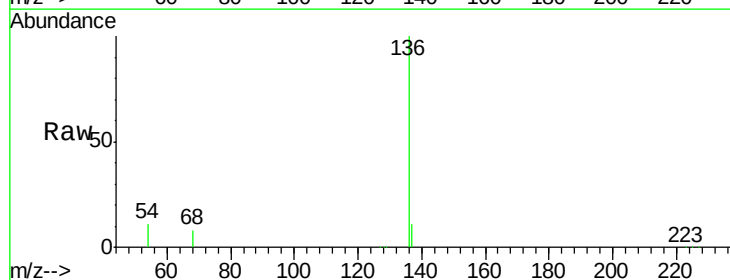
RT: 10.34 min Scan# 1371

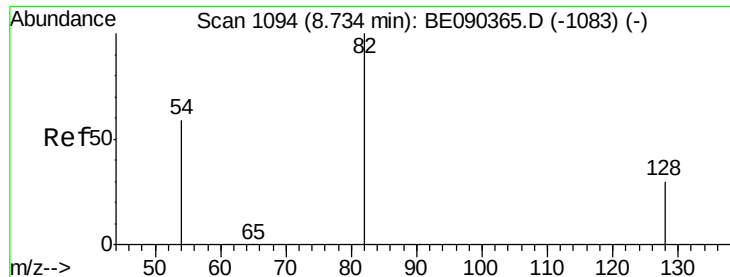
Delta R.T. 0.00 min

Lab File: BE090464.D

Acq: 12 Aug 2015 13:06

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 93114 |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 10.9  | 8.7   | 13.1  |
| 54       | 11.1  | 9.4   | 14.0  |
| 68       | 8.0   | 6.5   | 9.7   |





#7

Nitrobenzene-d5

Concen: 3.54 ng

RT: 8.73 min Scan# 1093

Delta R.T. -0.00 min

Lab File: BE090464.D

Acq: 12 Aug 2015 13:06

Instrument :

BNA\_E

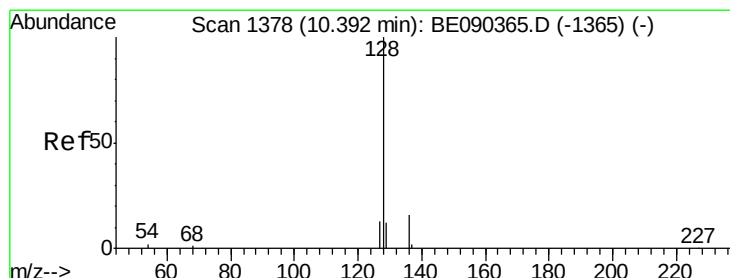
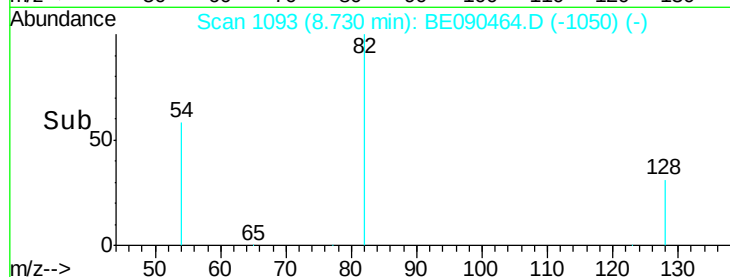
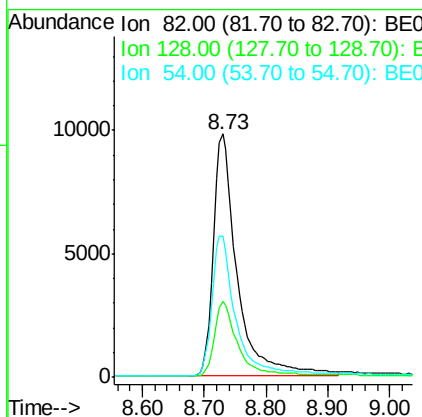
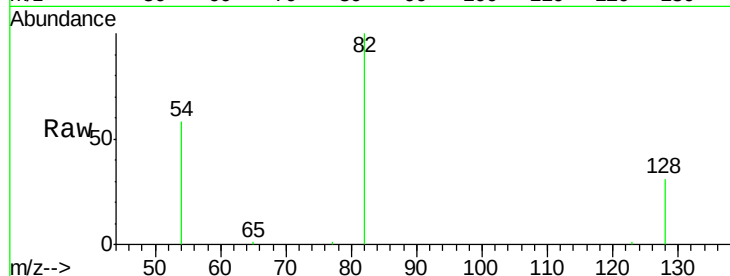
ClientSampleId :

080915-D534-E-D-B

Manual Integrations  
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| Tgt Ion   | 82    | Resp: | 26353 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 82        | 100   |       |       |
| 128       | 31.3  | 25.0  | 37.6  |
| 54        | 57.8  | 48.8  | 73.2  |



#9

Naphthalene

Concen: 0.03 ng

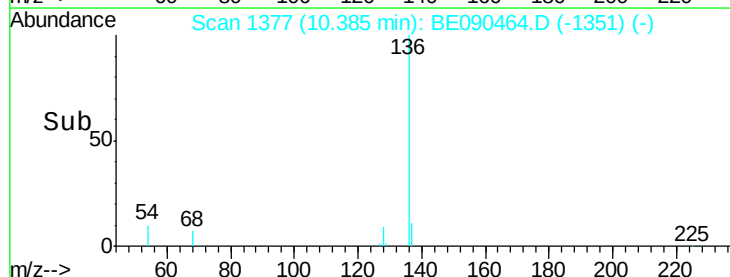
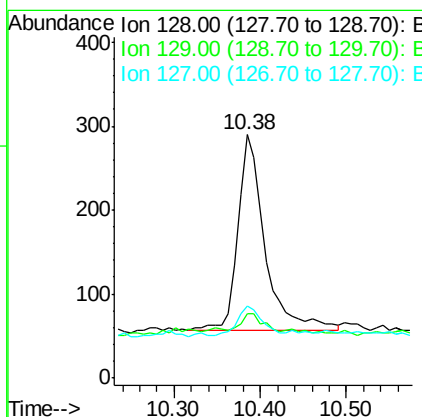
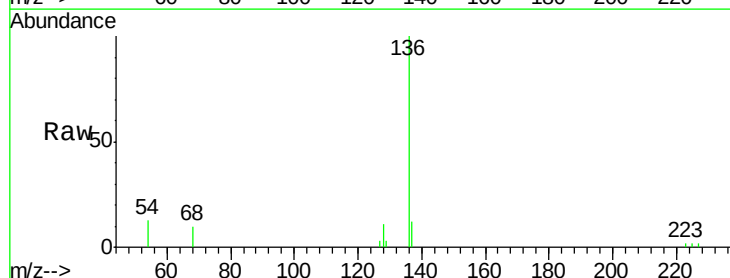
RT: 10.38 min Scan# 1377

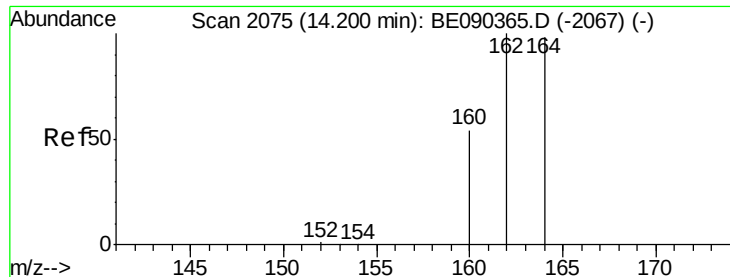
Delta R.T. -0.01 min

Lab File: BE090464.D

Acq: 12 Aug 2015 13:06

| Tgt Ion   | 128   | Resp: | 520   |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 129       | 26.6  | 9.8   | 14.6# |
| 127       | 29.3  | 10.6  | 16.0# |





#12

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.19 min Scan# 2074

Delta R.T. -0.01 min

Lab File: BE090464.D

Acq: 12 Aug 2015 13:06

Instrument :

BNA\_E

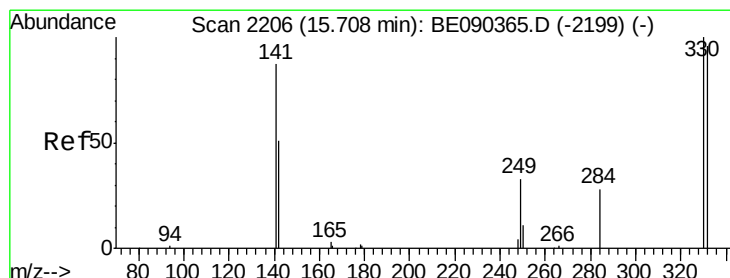
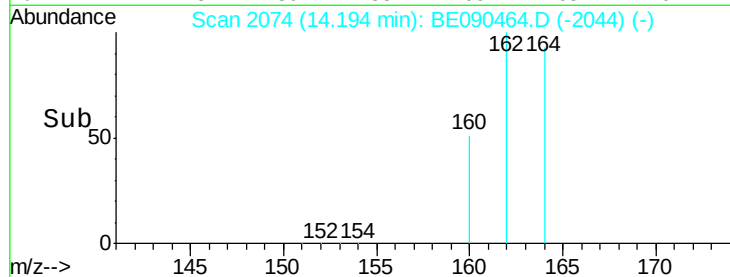
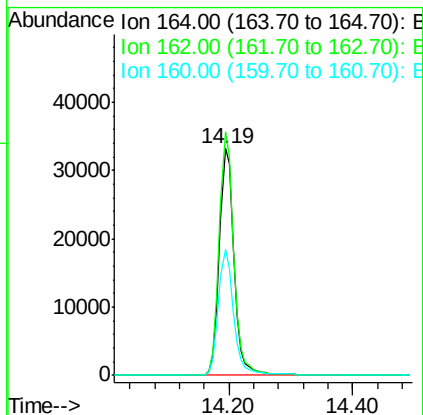
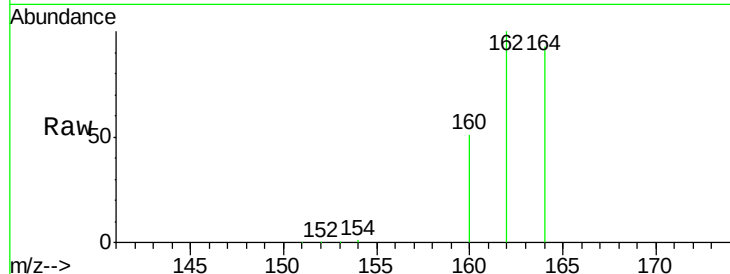
ClientSampleId :

080915-D534-E-D-B

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 164   | Resp: | 53917 |
| Ion Ratio | Lower | Upper |       |
| 164       | 100   |       |       |
| 162       | 107.6 | 81.8  | 122.8 |
| 160       | 55.3  | 44.2  | 66.4  |

Manual Integrations  
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#13

2,4,6-Tribromophenol

Concen: 9.13 ng

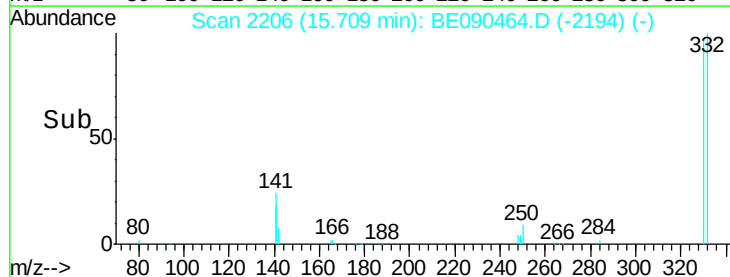
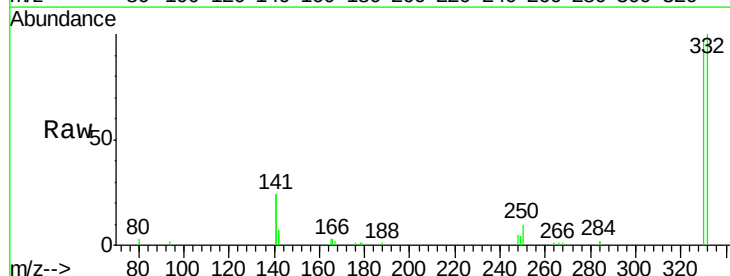
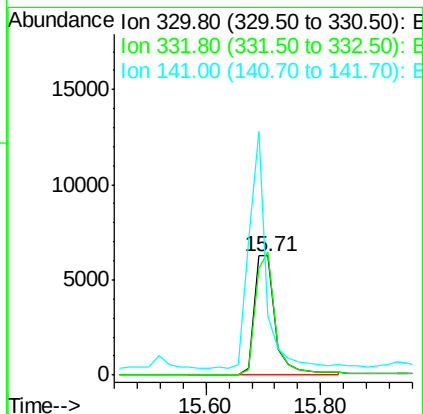
RT: 15.71 min Scan# 2206

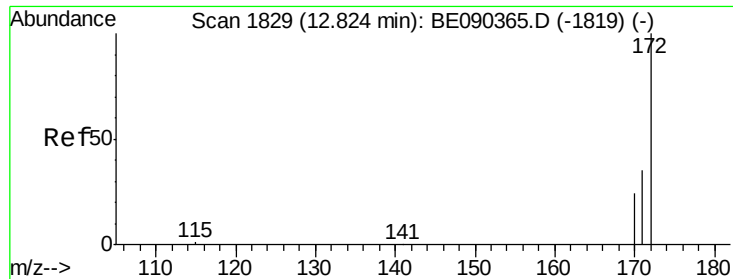
Delta R.T. 0.00 min

Lab File: BE090464.D

Acq: 12 Aug 2015 13:06

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 330   | Resp: | 16081 |
| Ion Ratio | Lower | Upper |       |
| 330       | 100   |       |       |
| 332       | 96.3  | 75.8  | 113.6 |
| 141       | 159.6 | 114.4 | 171.6 |





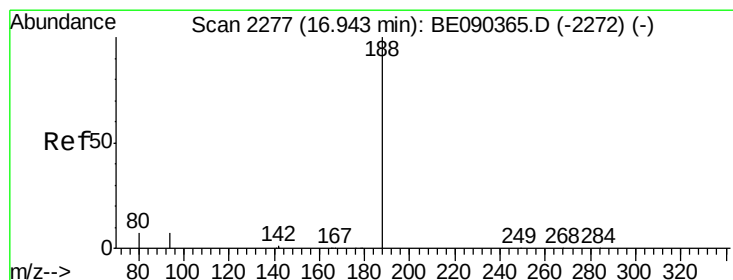
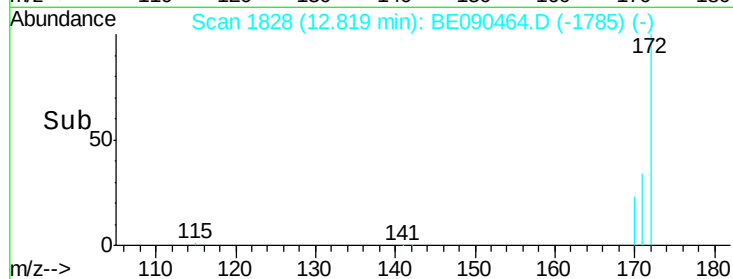
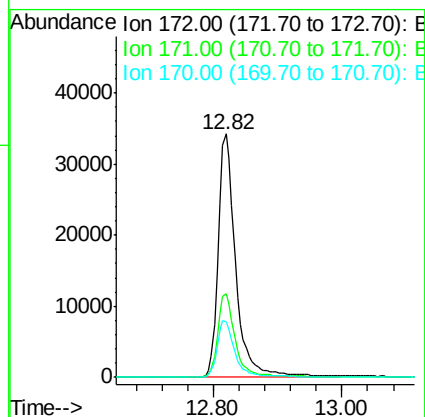
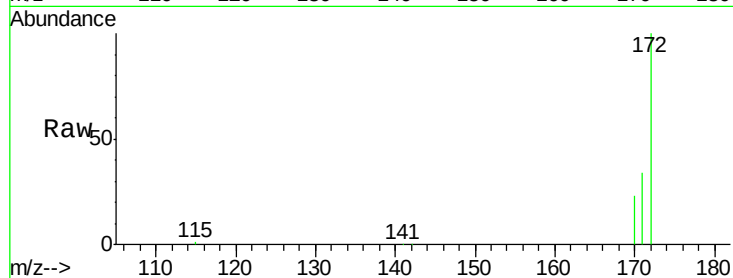
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2-Fluorobiphenyl  
Concen: 4.37 ng  
RT: 12.82 min Scan# 1828  
Delta R.T. -0.00 min  
Lab File: BE090464.D  
Acq: 12 Aug 2015 13:06

Instrument :  
BNA\_E  
ClientSampleId :  
080915-D534-E-D-B

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 34.1  | 28.5  | 42.7  |
| 170     | 22.8  | 19.8  | 29.8  |

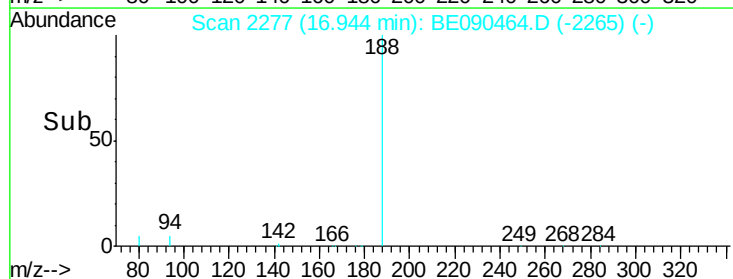
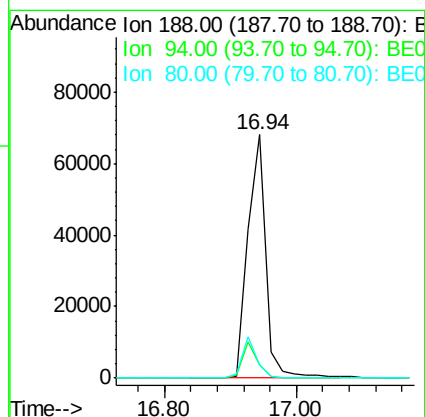
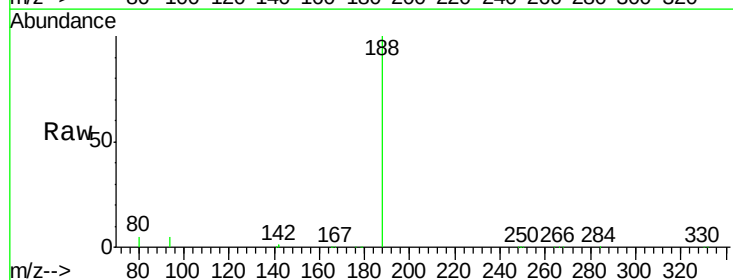
Manual Integrations  
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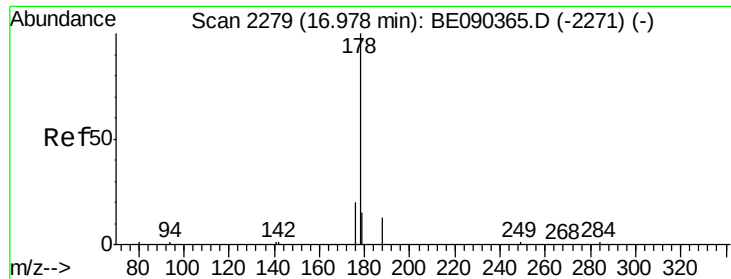
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#18  
Phenanthrene-d10  
Concen: 5.00 ng  
RT: 16.94 min Scan# 2277  
Delta R.T. 0.00 min  
Lab File: BE090464.D  
Acq: 12 Aug 2015 13:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 5.2   | 5.7   | 8.5#  |
| 80      | 5.3   | 5.8   | 8.8#  |





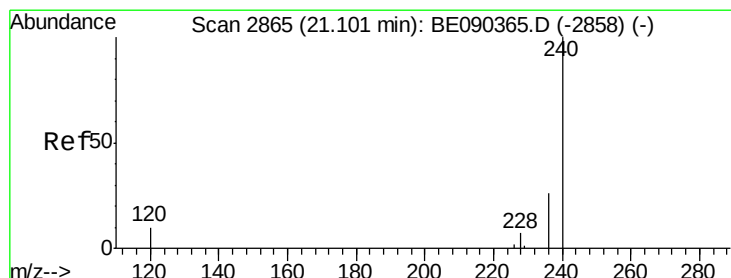
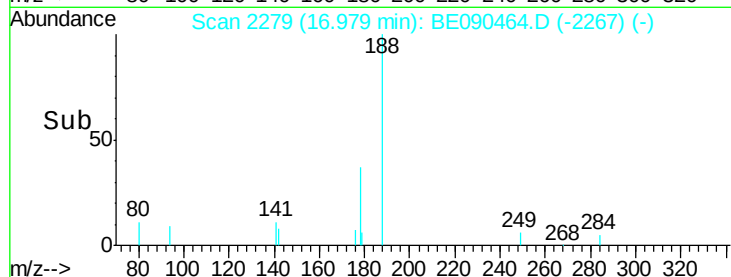
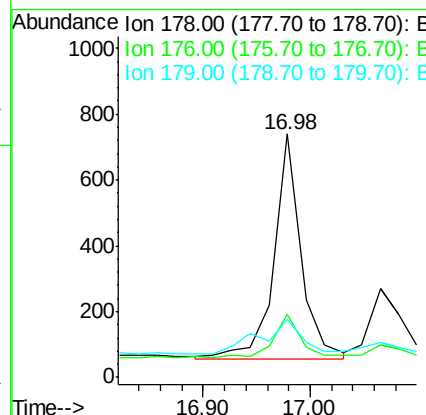
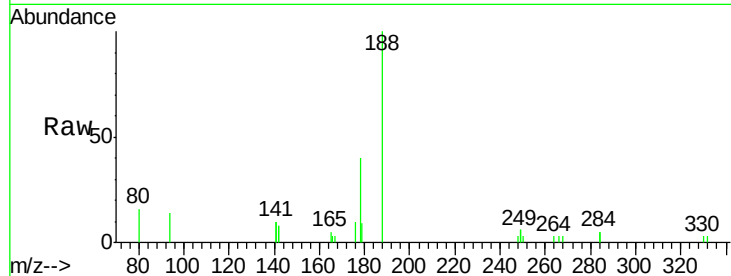
#22  
Phenanthrene  
Concen: 0.04 ng m  
RT: 16.98 min Scan# 2279  
Delta R.T. 0.00 min  
Lab File: BE090464.D  
Acq: 12 Aug 2015 13:06

Instrument :  
BNA\_E  
ClientSampleId :  
080915-D534-E-D-B

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 5.0   | 15.4  | 23.2# |
| 179     | 5.1   | 12.5  | 18.7# |

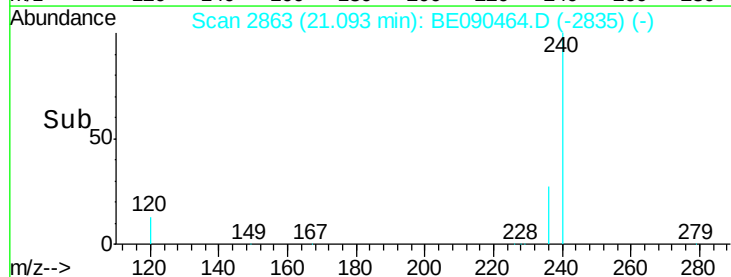
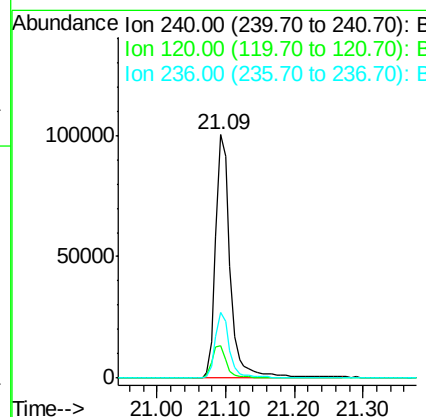
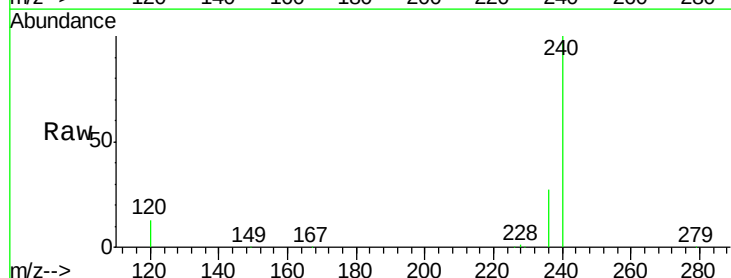
Manual Integrations  
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8/13/2015 3:35:11 PM

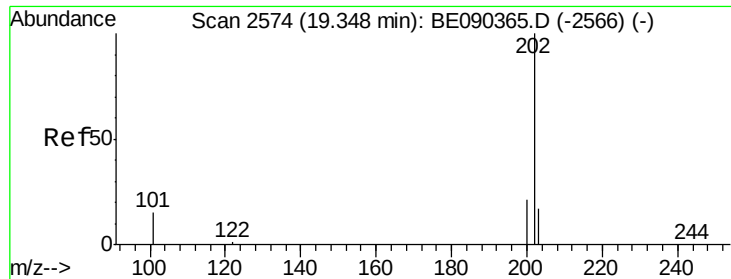


#25  
Chrysene-d12  
Concen: 5.00 ng  
RT: 21.09 min Scan# 2863  
Delta R.T. -0.01 min  
Lab File: BE090464.D  
Acq: 12 Aug 2015 13:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 13.2  | 8.3   | 12.5# |
| 236     | 27.0  | 21.0  | 31.4  |







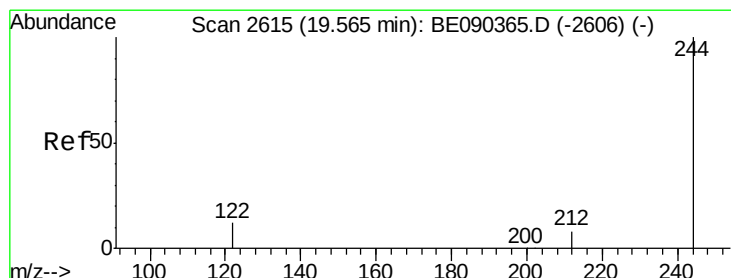
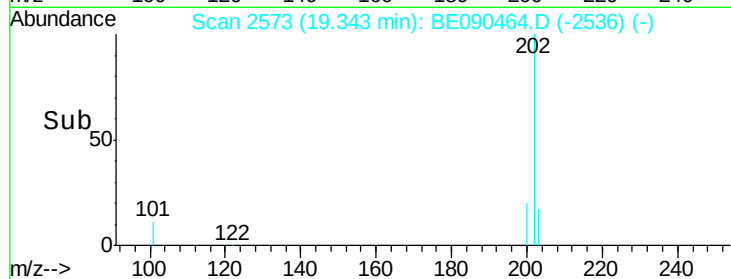
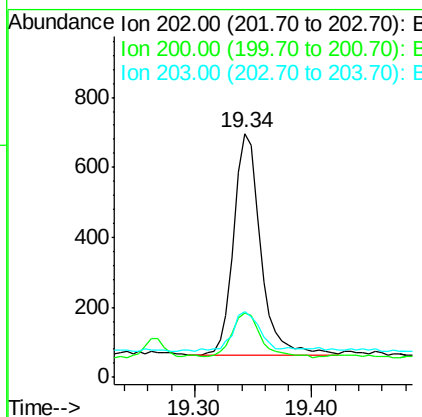
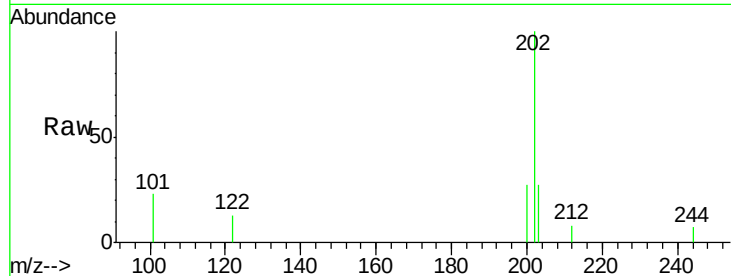
#26  
 Pyrene  
 Concen: 0.03 ng  
 RT: 19.34 min Scan# 2573  
 Delta R.T. -0.00 min  
 Lab File: BE090464.D  
 Acq: 12 Aug 2015 13:06

Instrument :  
 BNA\_E  
 ClientSampleId :  
 080915-D534-E-D-B

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 202   | Resp: | 1008  |
| Ion      | Ratio | Lower | Upper |
| 202      | 100   |       |       |
| 200      | 22.6  | 16.7  | 25.1  |
| 203      | 19.4  | 13.8  | 20.8  |

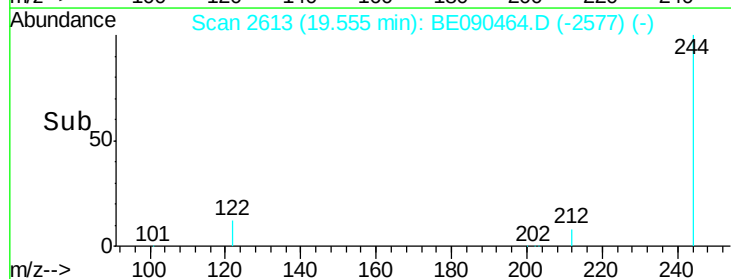
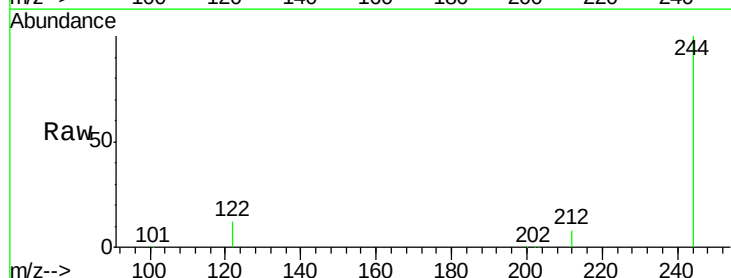
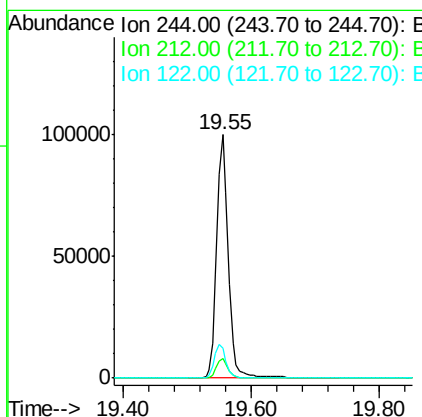
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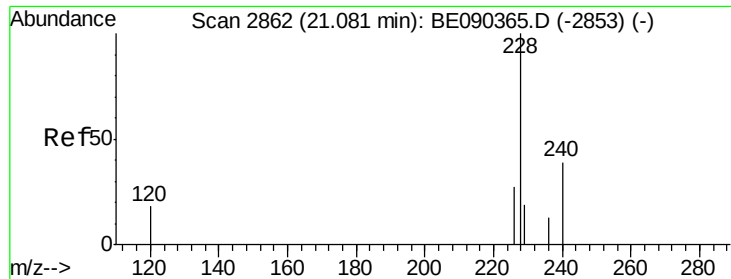
MMDadoda  
 8/13/2015 3:35:11 PM



#27  
 Terphenyl-d14  
 Concen: 5.73 ng  
 RT: 19.55 min Scan# 2613  
 Delta R.T. -0.01 min  
 Lab File: BE090464.D  
 Acq: 12 Aug 2015 13:06

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 244   | Resp: | 125804 |
| Ion      | Ratio | Lower | Upper  |
| 244      | 100   |       |        |
| 212      | 8.0   | 6.6   | 9.8    |
| 122      | 12.0  | 10.2  | 15.4   |





#28

Benzo(a)anthracene

Concen: 0.03 ng

RT: 21.09 min Scan# 2862

Delta R.T. 0.01 min

Lab File: BE090464.D

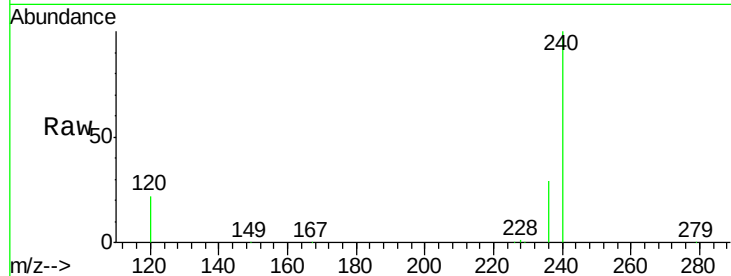
Acq: 12 Aug 2015 13:06

Instrument :

BNA\_E

ClientSampleId :

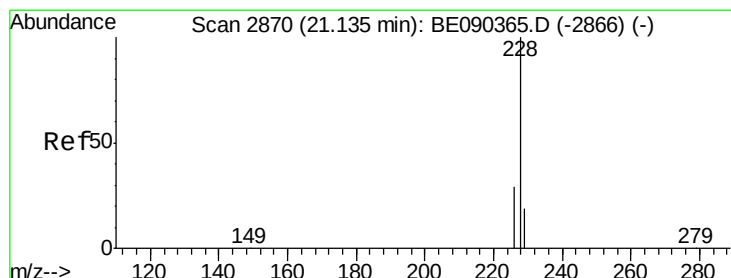
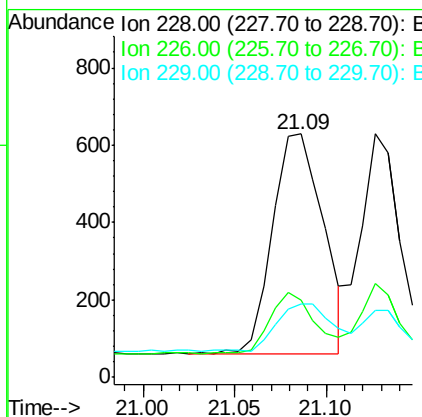
080915-D534-E-D-B



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 1100  |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 31.8  | 21.9  | 32.9  |
| 229       | 30.0  | 15.4  | 23.0# |

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#29

Chrysene

Concen: 0.02 ng

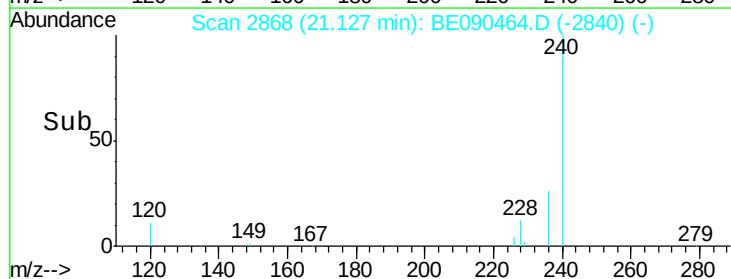
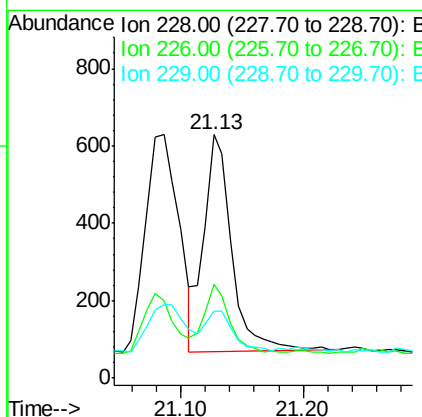
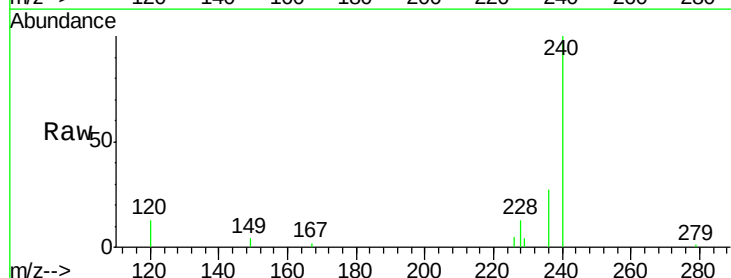
RT: 21.13 min Scan# 2868

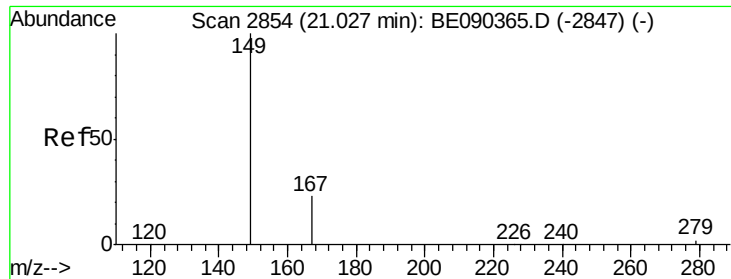
Delta R.T. -0.01 min

Lab File: BE090464.D

Acq: 12 Aug 2015 13:06

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 889   |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 38.6  | 23.1  | 34.7# |
| 229       | 27.5  | 15.8  | 23.8# |





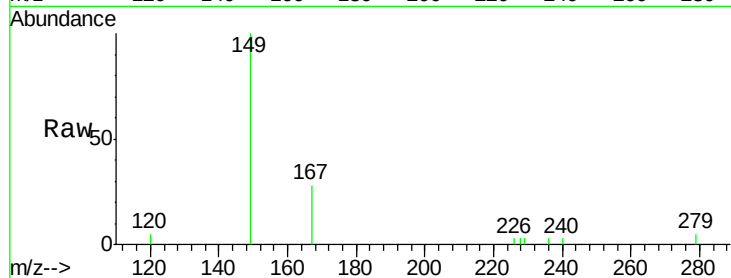
#30  
 Bis(2-ethylhexyl)phthalate  
 Concen: 0.41 ng  
 RT: 21.02 min Scan# 2853  
 Delta R.T. -0.00 min  
 Lab File: BE090464.D  
 Acq: 12 Aug 2015 13:06

Instrument :  
 BNA\_E  
 ClientSampleId :  
 080915-D534-E-D-B

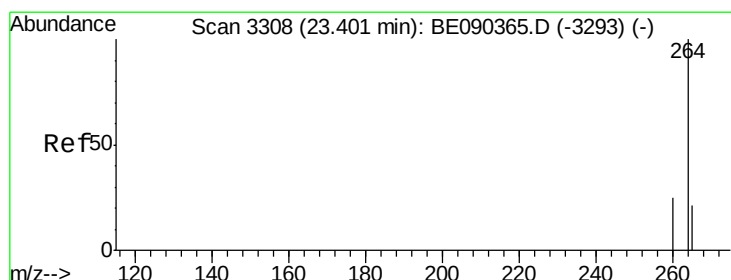
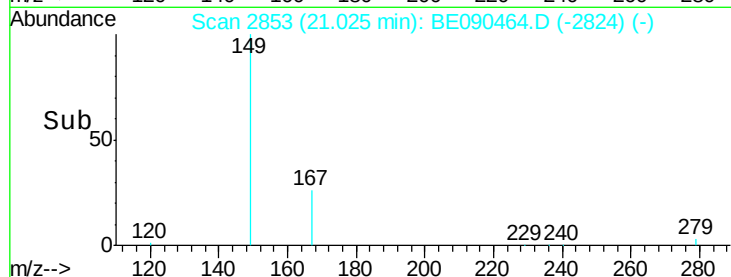
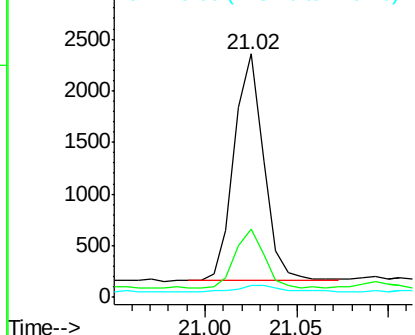
| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 149     | 100   |            |            |
| 167     | 25.7  | 19.8       | 29.8       |
| 279     | 3.6   | 2.4        | 3.6#       |

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Abundance Ion 149.00 (148.70 to 149.70): E  
 Ion 167.00 (166.70 to 167.70): E  
 Ion 279.00 (278.70 to 279.70): E



#32  
 Perylene-d12  
 Concen: 5.00 ng  
 RT: 23.39 min Scan# 3306  
 Delta R.T. -0.01 min  
 Lab File: BE090464.D  
 Acq: 12 Aug 2015 13:06

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 264     | 100   |            |            |
| 260     | 24.8  | 20.1       | 30.1       |
| 265     | 21.6  | 17.2       | 25.8       |

Abundance Ion 264.00 (263.70 to 264.70): E  
 Ion 260.00 (259.70 to 260.70): E  
 Ion 265.00 (264.70 to 265.70): E

