

Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE102315\  
 Data File : BE091038.D  
 Acq On : 23 Oct 2015 17:57  
 Operator : UM/NP  
 Sample : PB86253BSD  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB86253BSD

Manual Integrations  
 APPROVED

MmDadoda  
 10/26/2015 7:17:50 PM

Quant Time: Oct 26 15:47:06 2015

Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\8270-SIM-BE092815.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Fri Oct 23 23:56:52 2015

Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.92  | 152  | 18909    | 5.00 | ng    | 0.00     |
| 7) Naphthalene-d8         | 9.59  | 136  | 89257    | 5.00 | ng    | 0.00     |
| 13) Acenaphthene-d10      | 13.41 | 164  | 49423    | 5.00 | ng    | 0.00     |
| 19) Phenanthrene-d10      | 16.13 | 188  | 123392   | 5.00 | ng    | 0.00     |
| 26) Chrysene-d12          | 20.29 | 240  | 156196   | 5.00 | ng    | 0.00     |
| 35) Perylene-d12          | 22.19 | 264  | 153794   | 5.00 | ng    | 0.00     |

#### System Monitoring Compounds

|                          |       |     |       |      |    |       |
|--------------------------|-------|-----|-------|------|----|-------|
| 4) 2-Fluorophenol        | 4.93  | 112 | 28724 | 7.50 | ng | 0.00  |
| 5) Phenol-d6             | 6.55  | 99  | 38583 | 7.97 | ng | 0.00  |
| 8) Nitrobenzene-d5       | 8.17  | 82  | 25362 | 4.33 | ng | 0.00  |
| 14) 2,4,6-Tribromophenol | 14.93 | 330 | 12873 | 7.53 | ng | -0.01 |
| 15) 2-Fluorobiphenyl     | 12.05 | 172 | 48435 | 3.62 | ng | 0.00  |
| 29) Terphenyl-d14        | 18.68 | 244 | 76470 | 3.97 | ng | 0.00  |

#### Target Compounds

|                                |       |     |        |       |    | Qvalue |
|--------------------------------|-------|-----|--------|-------|----|--------|
| 2) 1,4-Dioxane                 | 3.03  | 88  | 7991   | 3.20  | ng | # 81   |
| 3) n-Nitrosodimethylamine      | 3.44  | 42  | 12577  | 4.26  | ng | # 85   |
| 6) bis(2-Chloroethyl)ether     | 6.55  | 93  | 33877m | 6.56  | ng |        |
| 9) Nitrobenzene                | 8.21  | 77  | 27079  | 4.08  | ng | 95     |
| 10) Naphthalene                | 9.63  | 128 | 61108  | 3.54  | ng | 100    |
| 11) Hexachlorobutadiene        | 9.86  | 225 | 8294   | 3.00  | ng | 98     |
| 12) 2-Methylnaphthalene        | 11.16 | 142 | 44354  | 3.92  | ng | 99     |
| 16) Acenaphthylene             | 13.15 | 152 | 299604 | 3.63  | ng | 100    |
| 17) Acenaphthene               | 13.47 | 154 | 45599  | 3.46  | ng | 92     |
| 18) Fluorene                   | 14.46 | 166 | 60347  | 3.70  | ng | 98     |
| 20) 4-Bromophenyl-phenylether  | 15.31 | 248 | 15393  | 3.30  | ng | 78     |
| 21) Hexachlorobenzene          | 15.40 | 284 | 16941  | 0.71  | ng | 94     |
| 22) Pentachlorophenol          | 15.89 | 266 | 13026  | 6.82  | ng | 90     |
| 23) Phenanthrene               | 16.17 | 178 | 107165 | 3.80  | ng | 99     |
| 24) Anthracene                 | 16.25 | 178 | 101868 | 3.80  | ng | 98     |
| 25) Fluoranthene               | 18.16 | 202 | 124525 | 3.88  | ng | 99     |
| 27) Benzidine                  | 18.52 | 184 | 80258  | 10.15 | ng | # 77   |
| 28) Pyrene                     | 18.54 | 202 | 137308 | 3.82  | ng | 99     |
| 30) Benzo(a)anthracene         | 20.26 | 228 | 129739 | 3.73  | ng | 99     |
| 32) Chrysene                   | 20.32 | 228 | 133556 | 3.63  | ng | 98     |
| 33) Bis(2-ethylhexyl)phthalate | 19.97 | 149 | 58932  | 4.02  | ng | 99     |
| 34) Indeno(1,2,3-cd)pyrene     | 23.83 | 276 | 136440 | 3.52  | ng | # 93   |
| 36) Benzo(b)fluoranthene       | 21.62 | 252 | 133339 | 3.93  | ng | 99     |
| 37) Benzo(k)fluoranthene       | 21.66 | 252 | 143937 | 3.49  | ng | 99     |
| 38) Benzo(a)pyrene             | 22.09 | 252 | 130359 | 4.15  | ng | 99     |
| 39) Dibenzo(a,h)anthracene     | 23.79 | 278 | 132871 | 4.28  | ng | 99     |
| 40) Benzo(g,h,i)perylene       | 24.40 | 276 | 140426 | 4.17  | ng | 99     |

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

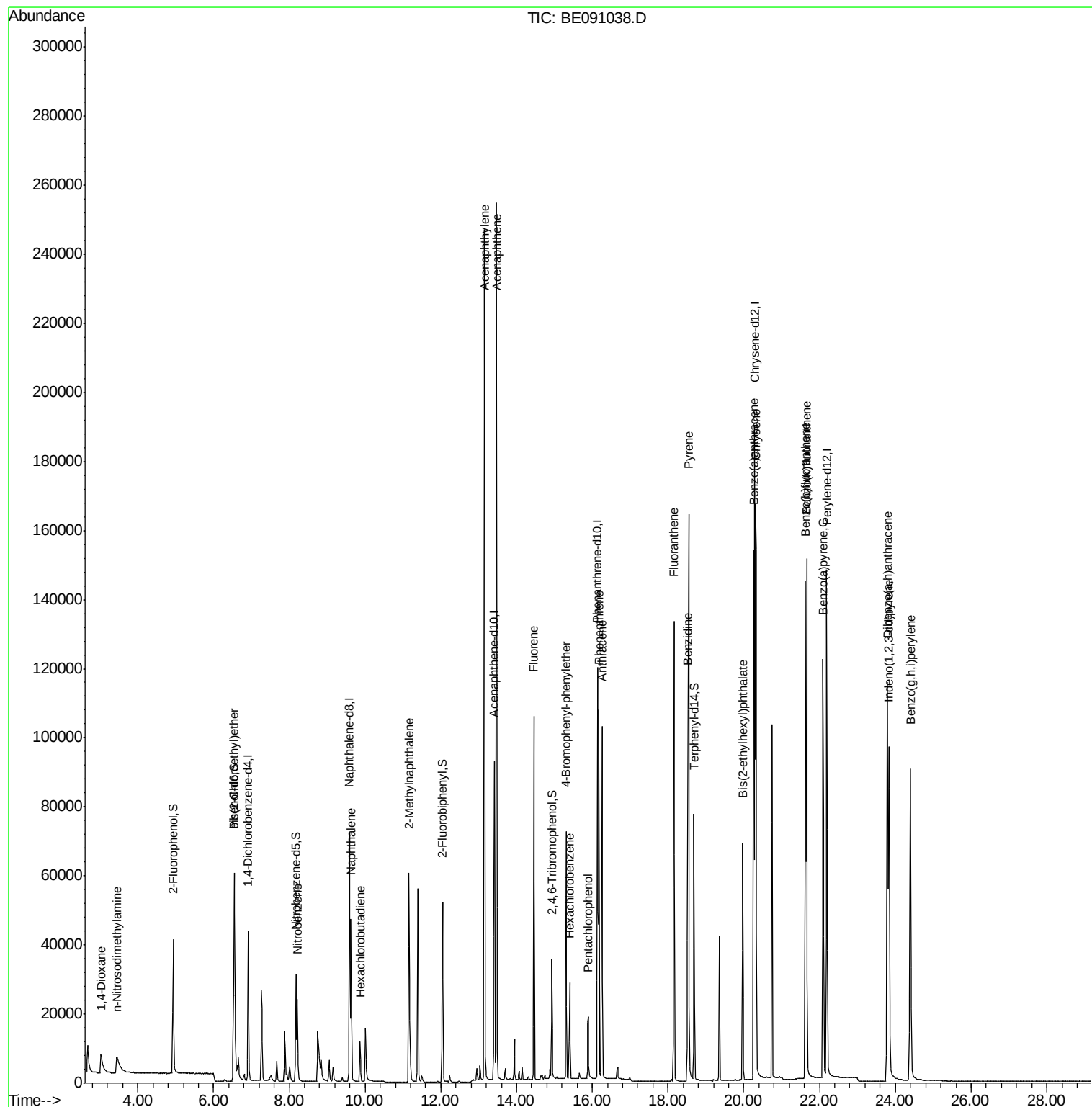
Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE102315\  
Data File : BE091038.D  
Acq On : 23 Oct 2015 17:57  
Operator : UM/NP  
Sample : PB86253BSD  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

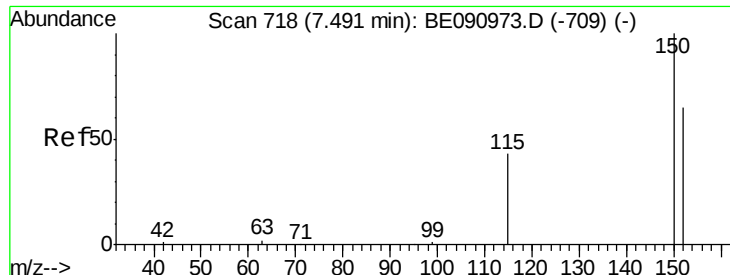
Instrument :  
BNA\_E  
ClientSampleId :  
PB86253BSD

Manual Integrations  
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10/26/2015 7:17:50 PM

Quant Time: Oct 26 15:47:06 2015  
Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\8270-SIM-BE092815.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Oct 23 23:56:52 2015  
Response via : Initial Calibration

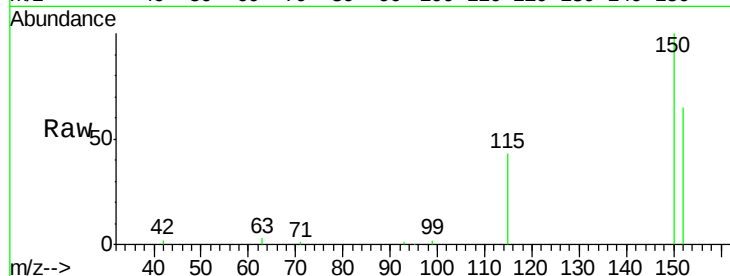




#1

1,4-Dichlorobenzene-d4  
Concen: 5.00 ng  
RT: 6.92 min Scan# 633  
Delta R.T. 0.00 min  
Lab File: BE091038.D  
Acq: 23 Oct 2015 17:57

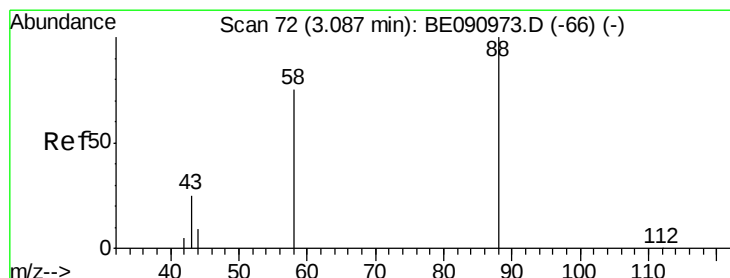
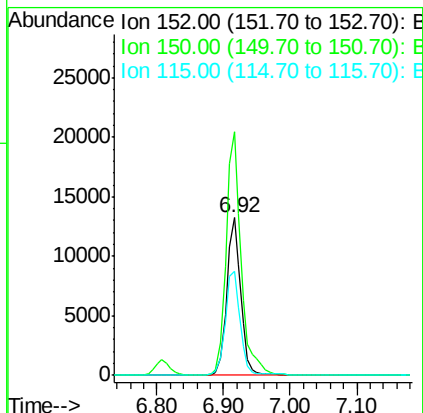
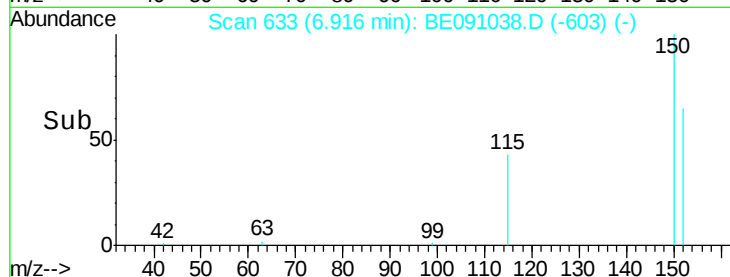
Instrument :  
BNA\_E  
ClientSampleId :  
PB86253BSD



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 154.6 | 122.6 | 183.8 |
| 115     | 66.3  | 52.8  | 79.2  |

Manual Integrations  
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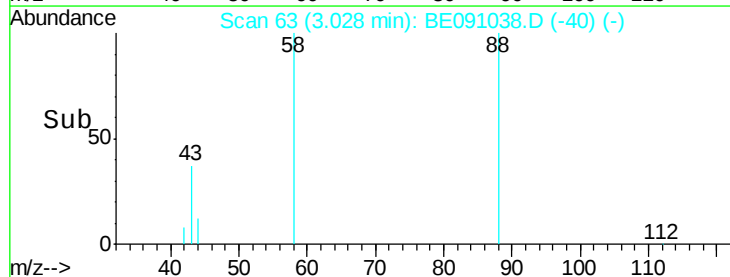
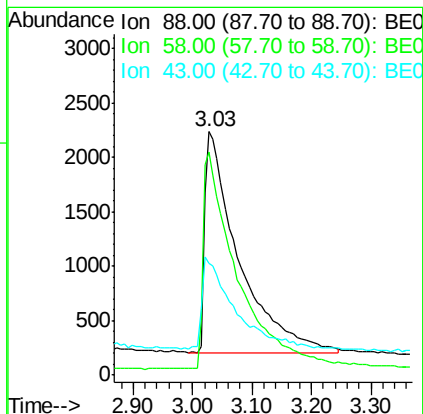
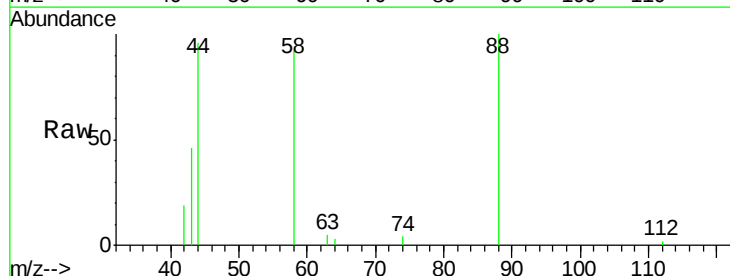
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#2

1,4-Dioxane  
Concen: 3.20 ng  
RT: 3.03 min Scan# 63  
Delta R.T. -0.05 min  
Lab File: BE091038.D  
Acq: 23 Oct 2015 17:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 88      | 100   |       |       |
| 58      | 100.0 | 65.8  | 98.6# |
| 43      | 41.5  | 25.3  | 37.9# |





#3

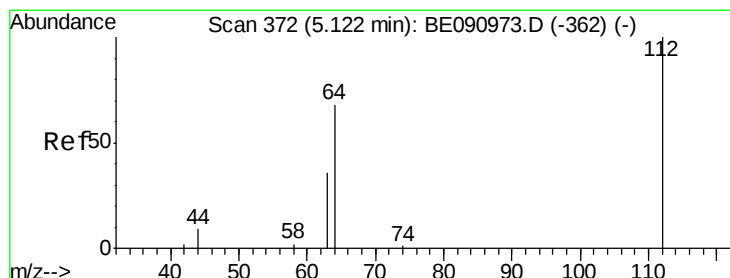
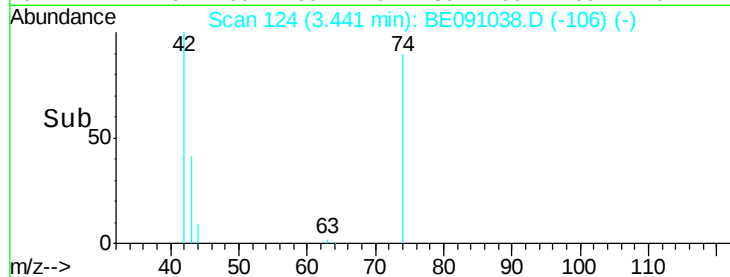
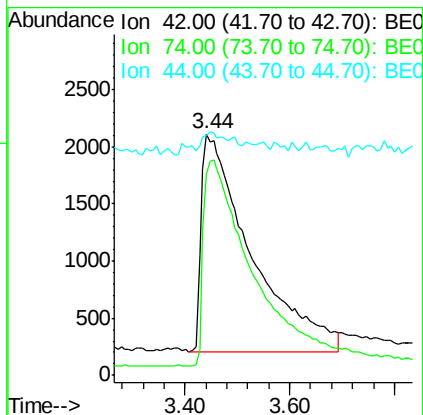
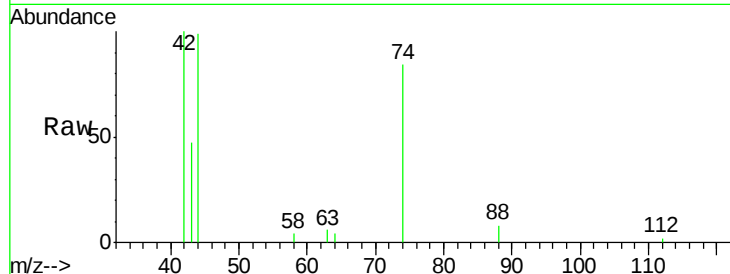
n-Nitrosodimethylamine  
 Concen: 4.26 ng  
 RT: 3.44 min Scan# 124  
 Delta R.T. -0.08 min  
 Lab File: BE091038.D  
 Acq: 23 Oct 2015 17:57

Instrument :  
 BNA\_E  
 ClientSampleId :  
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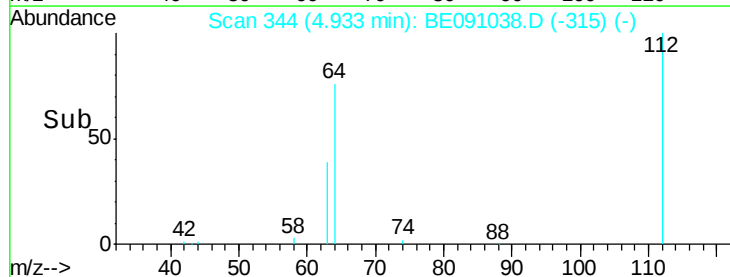
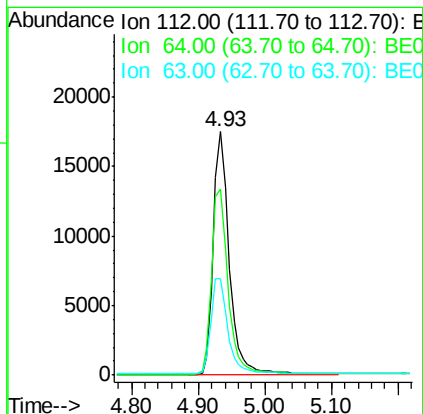
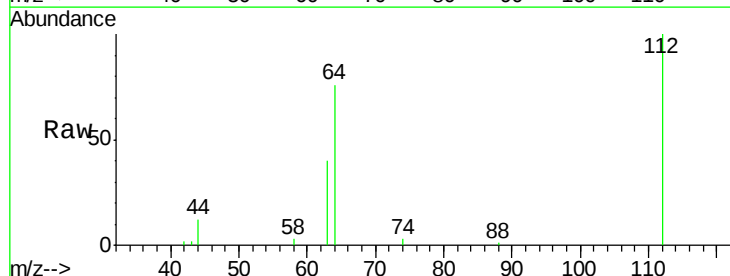
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 74      | 94.1  | 87.9  | 131.9 |
| 44      | 3.5   | 6.6   | 9.8#  |

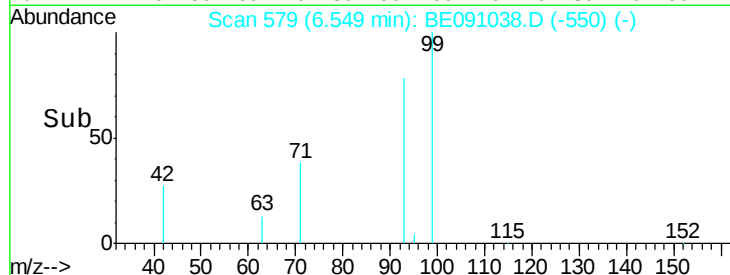
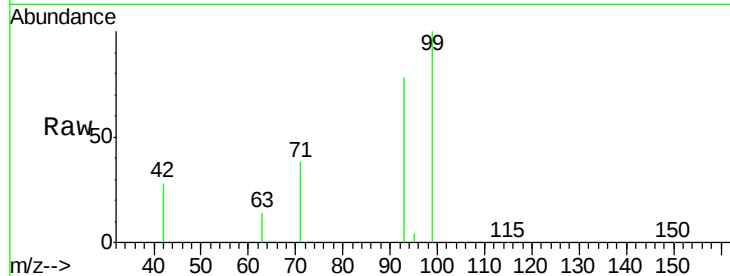
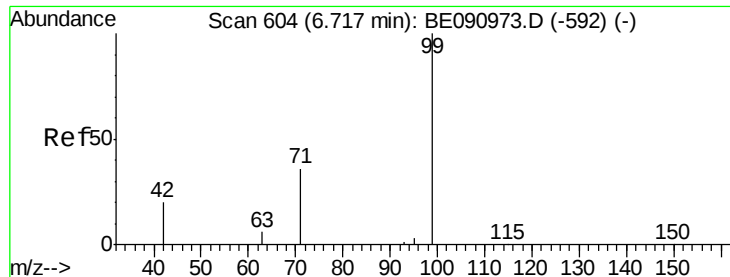


#4

2-Fluorophenol  
 Concen: 7.50 ng  
 RT: 4.93 min Scan# 344  
 Delta R.T. -0.00 min  
 Lab File: BE091038.D  
 Acq: 23 Oct 2015 17:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 79.1  | 30.9  | 46.3# |
| 63      | 41.7  | 16.7  | 25.1# |





#5

Phenol-d6

Concen: 7.97 ng

RT: 6.55 min Scan# 579

Delta R.T. -0.01 min

Lab File: BE091038.D

Acq: 23 Oct 2015 17:57

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 99      | 100   | 38583 |       |       |
| 42      | 30.8  | 16.2  | 24.2# |       |
| 71      | 40.0  | 29.0  | 43.4  |       |

Instrument :

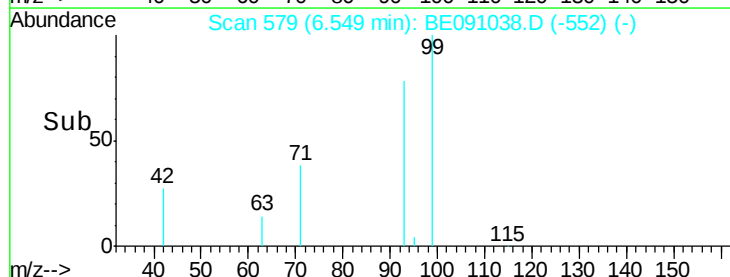
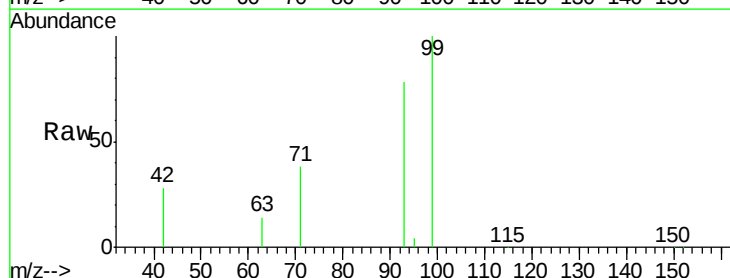
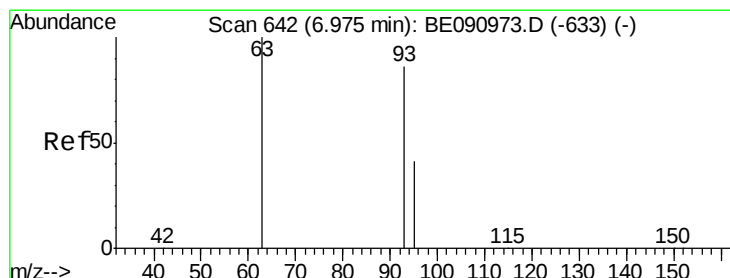
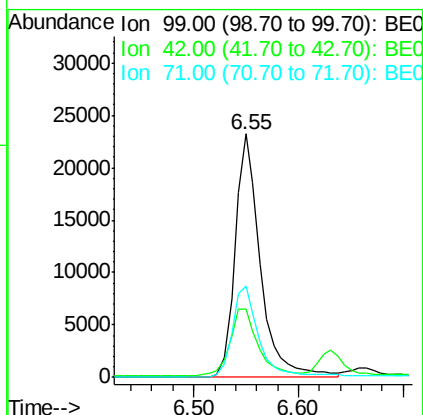
BNA\_E

ClientSampleId :

PB86253BSD

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#6

bis(2-Chloroethyl)ether

Concen: 6.56 ng m

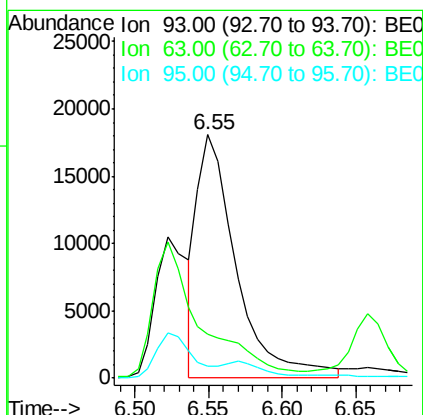
RT: 6.55 min Scan# 579

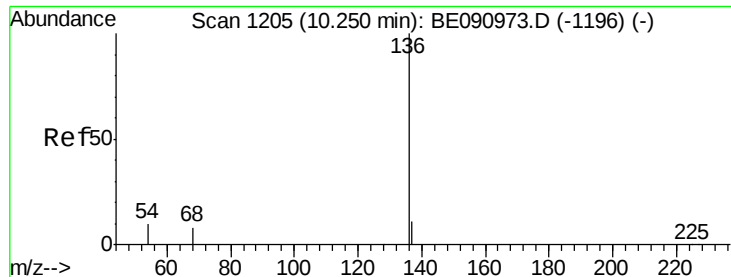
Delta R.T. -0.02 min

Lab File: BE091038.D

Acq: 23 Oct 2015 17:57

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 93      | 100   | 33877 |       |       |
| 63      | 0.0   | 49.5  | 74.3# |       |
| 95      | 0.0   | 22.2  | 33.4# |       |





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 9.59 min Scan# 1155

Delta R.T. 0.00 min

Lab File: BE091038.D

Acq: 23 Oct 2015 17:57

Instrument :

BNA\_E

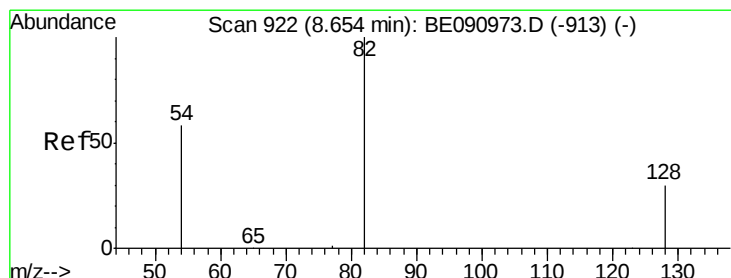
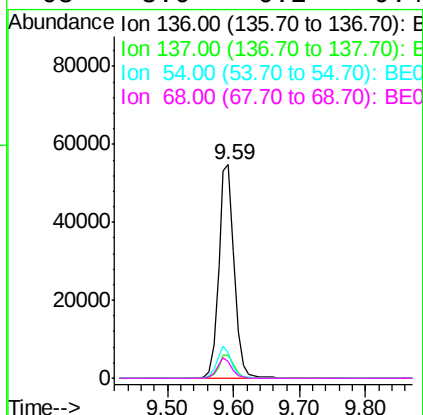
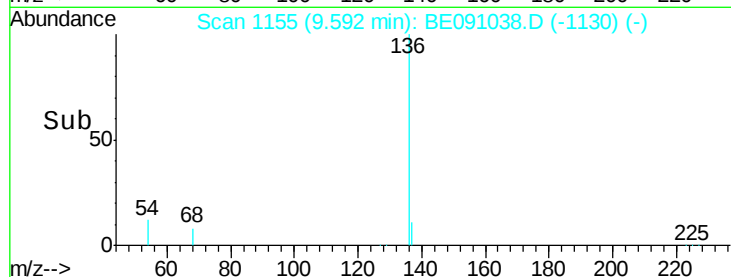
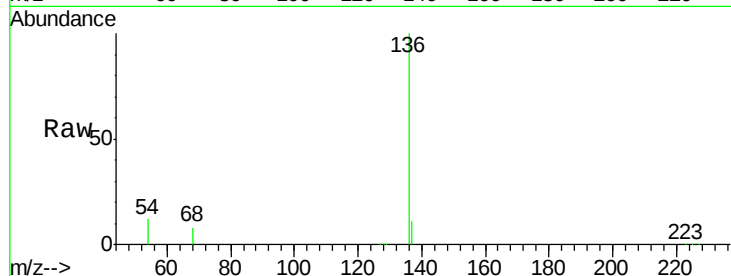
ClientSampleId :

PB86253BSD

Manual Integrations  
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| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 136     | 100   | 89257 |       |       |
| 137     | 11.0  | 8.9   | 13.3  |       |
| 54      | 12.0  | 8.2   | 12.4  |       |
| 68      | 8.0   | 6.2   | 9.4   |       |



#8

Nitrobenzene-d5

Concen: 4.33 ng

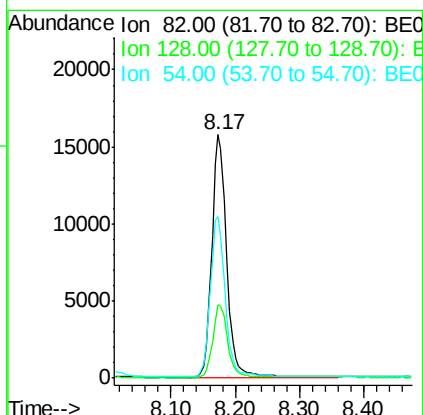
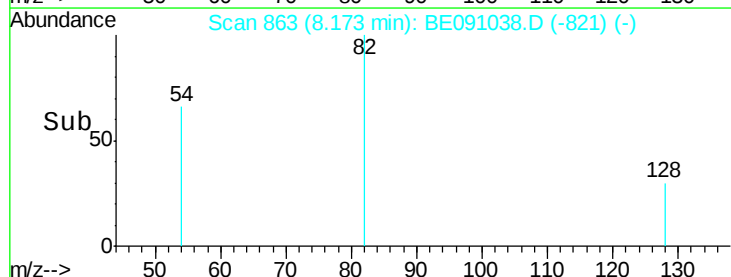
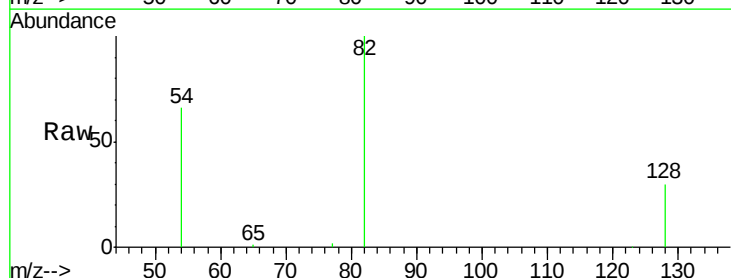
RT: 8.17 min Scan# 863

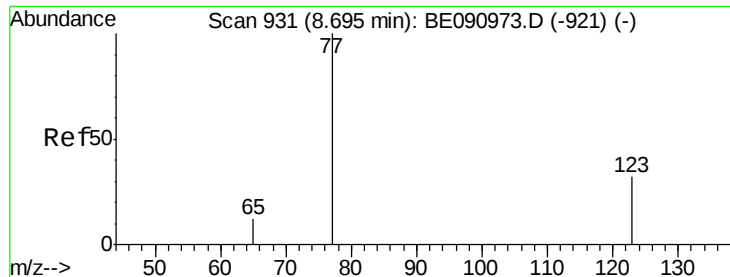
Delta R.T. -0.01 min

Lab File: BE091038.D

Acq: 23 Oct 2015 17:57

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 82      | 100   | 25362 |       |       |
| 128     | 30.2  | 25.4  | 38.0  |       |
| 54      | 66.3  | 48.4  | 72.6  |       |





#9

Nitrobenzene

Concen: 4.08 ng

RT: 8.21 min Scan# 871

Delta R.T. -0.00 min

Lab File: BE091038.D

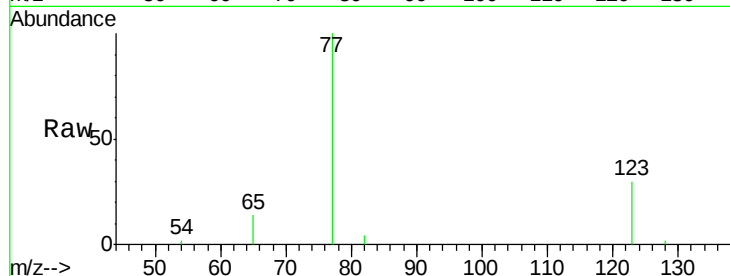
Acq: 23 Oct 2015 17:57

Instrument :

BNA\_E

ClientSampleId :

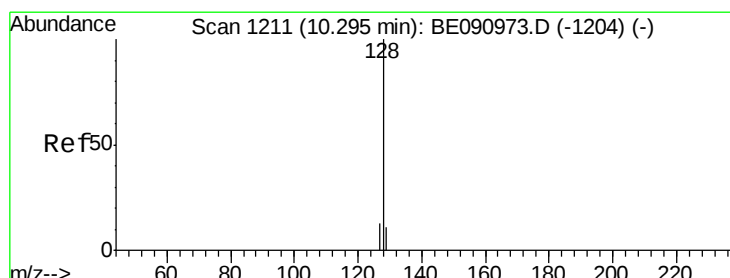
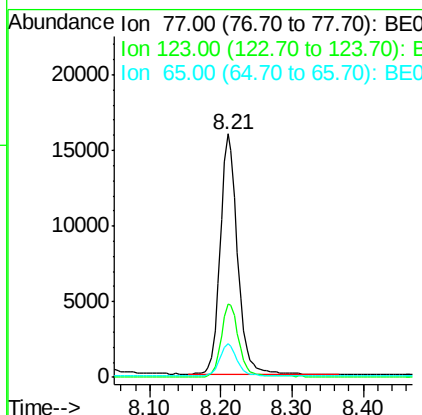
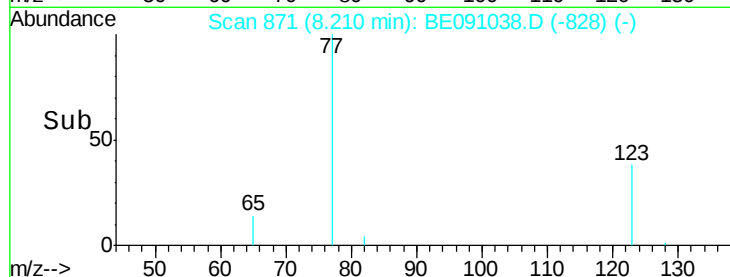
PB86253BSD



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 77    | Resp: | 27079 |
| Ion      | Ratio | Lower | Upper |
| 77       | 100   |       |       |
| 123      | 30.8  | 26.9  | 40.3  |
| 65       | 13.2  | 9.4   | 14.2  |

Manual Integrations  
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#10

Naphthalene

Concen: 3.54 ng

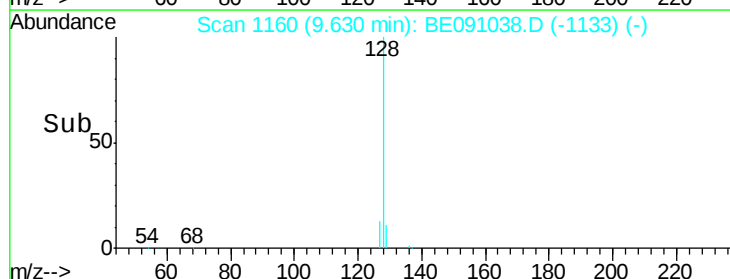
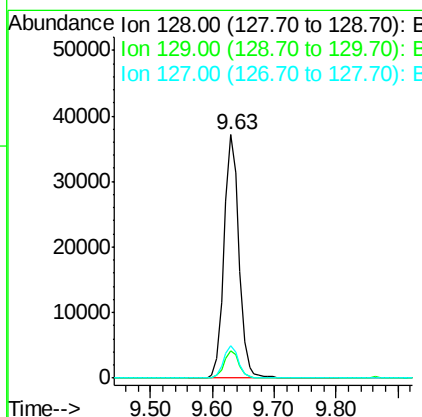
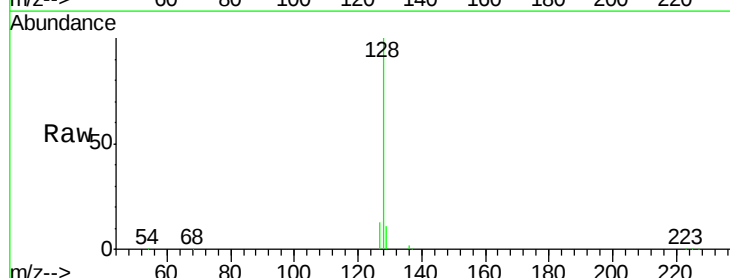
RT: 9.63 min Scan# 1160

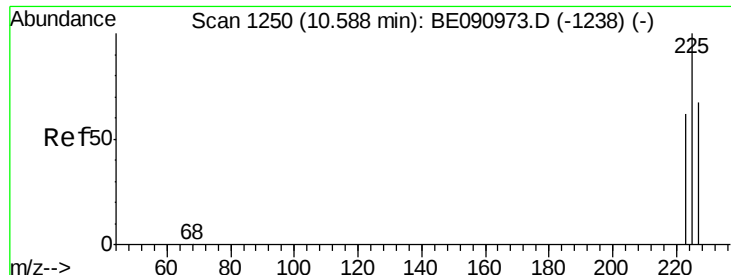
Delta R.T. 0.00 min

Lab File: BE091038.D

Acq: 23 Oct 2015 17:57

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 61108 |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 129      | 11.2  | 9.3   | 13.9  |
| 127      | 13.4  | 10.7  | 16.1  |





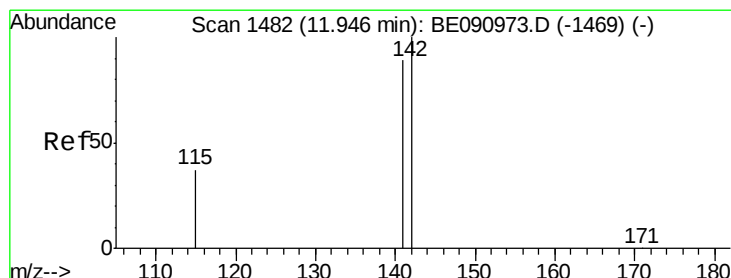
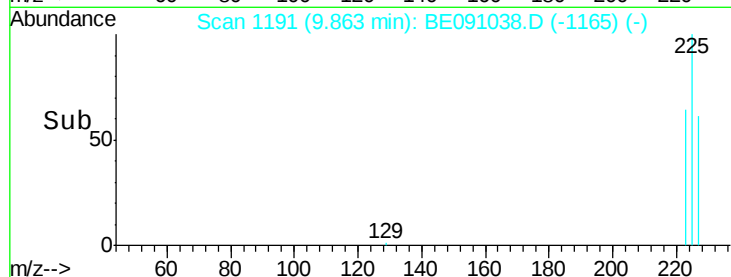
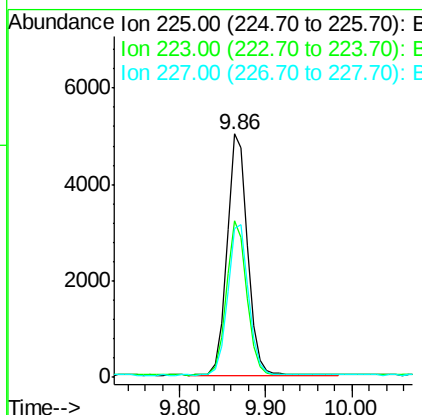
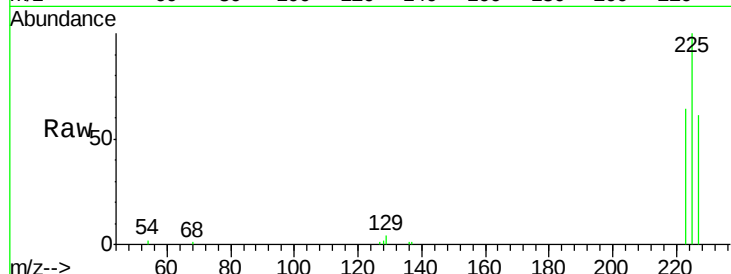
#11  
Hexachlorobutadiene  
Concen: 3.00 ng  
RT: 9.86 min Scan# 1191  
Delta R.T. -0.01 min  
Lab File: BE091038.D  
Acq: 23 Oct 2015 17:57

Instrument :  
BNA\_E  
ClientSampleId :  
PB86253BSD

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 63.7  | 49.0  | 73.6  |
| 227     | 63.7  | 50.3  | 75.5  |

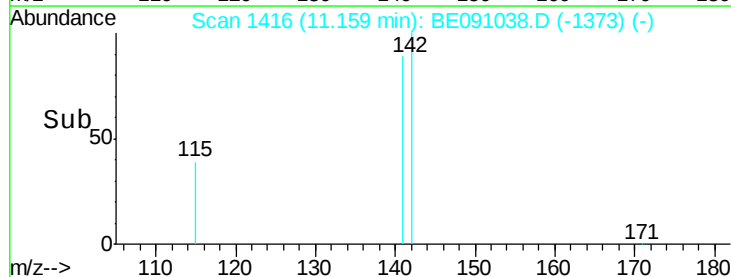
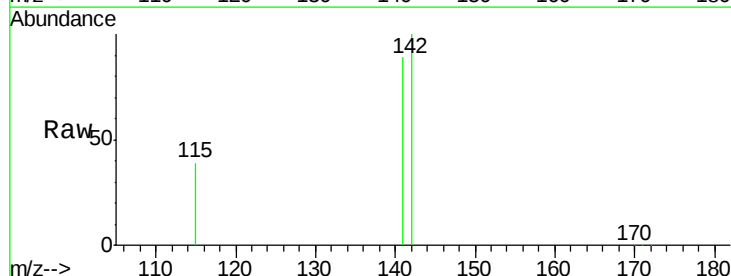
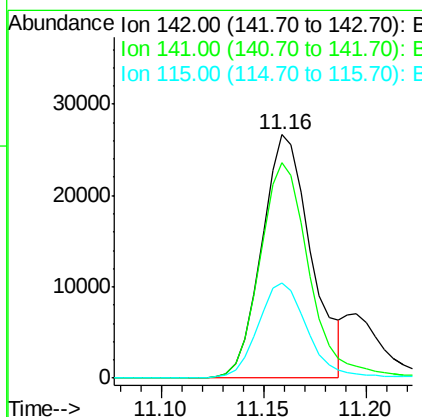
Manual Integrations  
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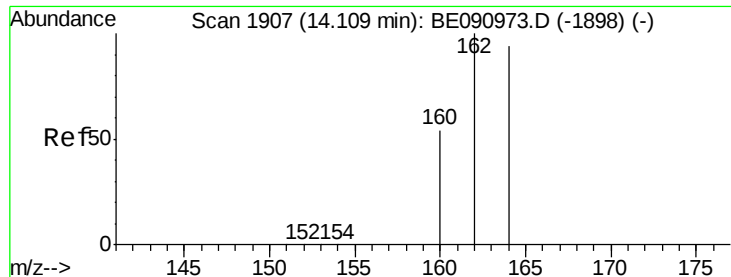
MmDadoda  
10/26/2015 7:17:50 PM



#12  
2-Methylnaphthalene  
Concen: 3.92 ng  
RT: 11.16 min Scan# 1416  
Delta R.T. -0.01 min  
Lab File: BE091038.D  
Acq: 23 Oct 2015 17:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 88.6  | 71.4  | 107.0 |
| 115     | 39.0  | 30.3  | 45.5  |





#13

Acenaphthene-d10

Concen: 5.00 ng

RT: 13.41 min Scan# 1844

Delta R.T. -0.01 min

Lab File: BE091038.D

Acq: 23 Oct 2015 17:57

Instrument :

BNA\_E

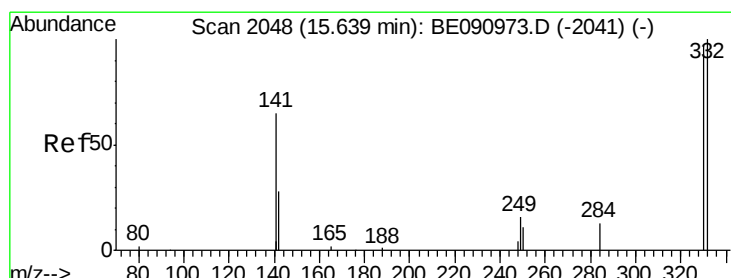
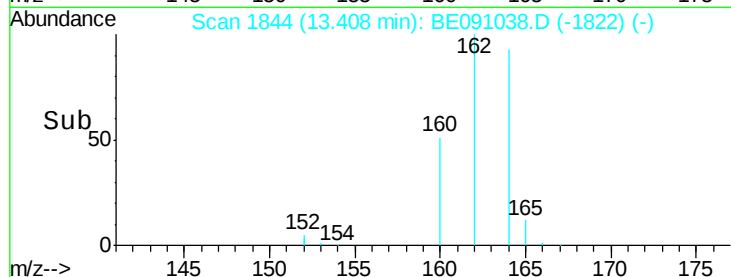
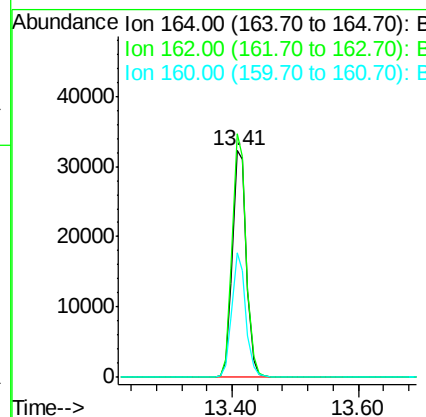
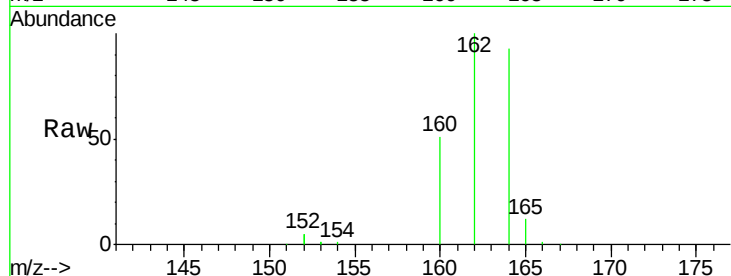
ClientSampleId :

PB86253BSD

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 164   | Resp: | 49423 |
| Ion Ratio | Lower | Upper |       |
| 164       | 100   |       |       |
| 162       | 107.5 | 85.3  | 127.9 |
| 160       | 54.8  | 46.2  | 69.2  |

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MmDadoda  
10/26/2015 7:17:50 PM



#14

2,4,6-Tribromophenol

Concen: 7.53 ng

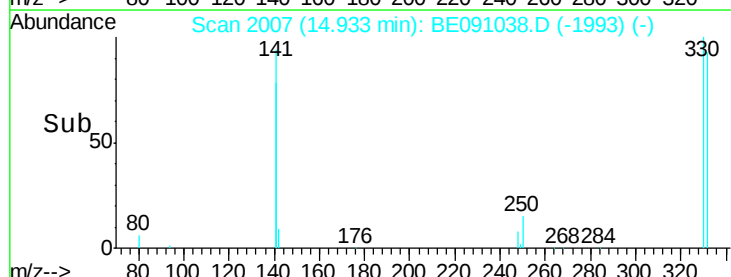
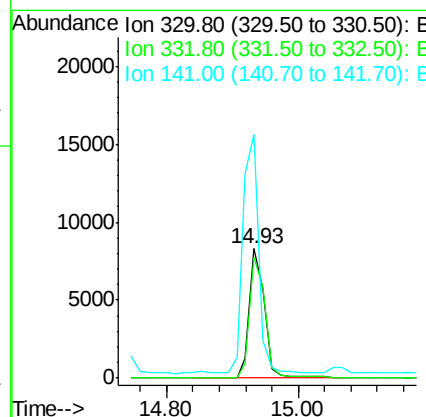
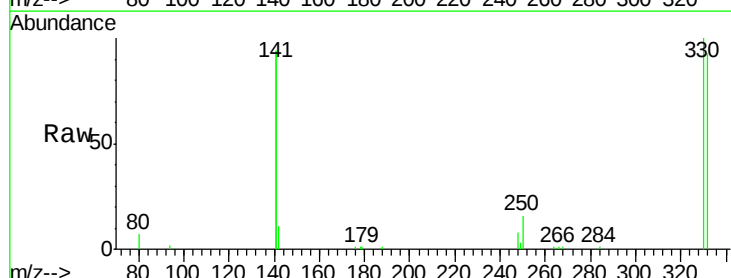
RT: 14.93 min Scan# 2007

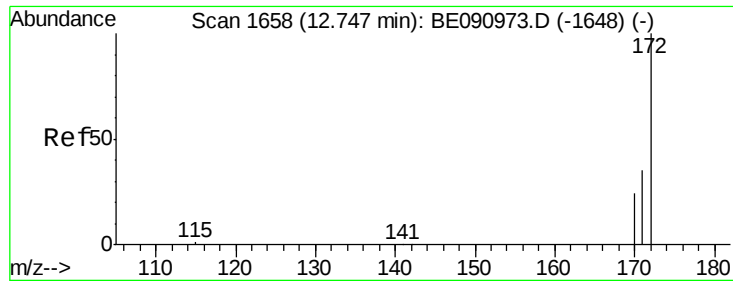
Delta R.T. -0.01 min

Lab File: BE091038.D

Acq: 23 Oct 2015 17:57

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 330   | Resp: | 12873 |
| Ion Ratio | Lower | Upper |       |
| 330       | 100   |       |       |
| 332       | 96.3  | 79.1  | 118.7 |
| 141       | 197.0 | 125.4 | 188.0 |





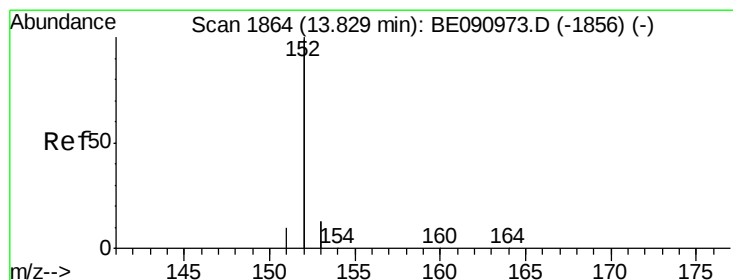
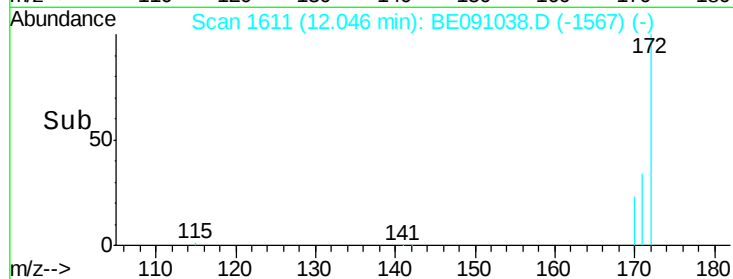
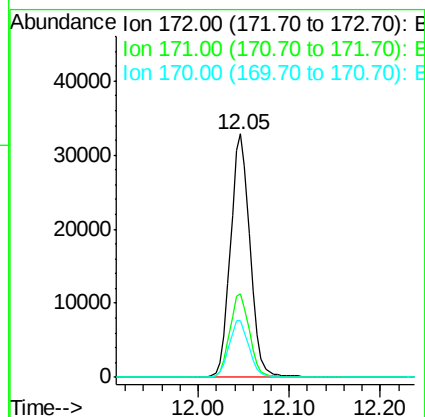
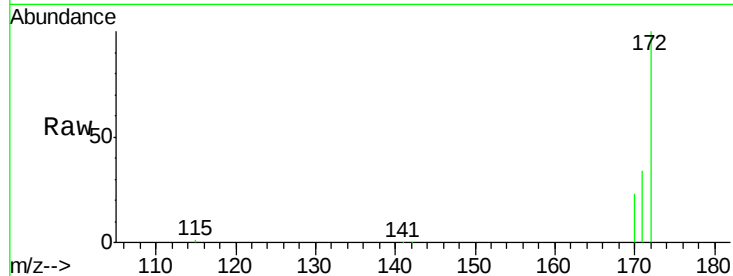
#15  
2-Fluorobiphenyl  
Concen: 3.62 ng  
RT: 12.05 min Scan# 1611  
Delta R.T. -0.00 min  
Lab File: BE091038.D  
Acq: 23 Oct 2015 17:57

Instrument :  
BNA\_E  
ClientSampleId :  
PB86253BSD

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 34.5  | 28.8  | 43.2  |
| 170     | 23.3  | 19.3  | 28.9  |

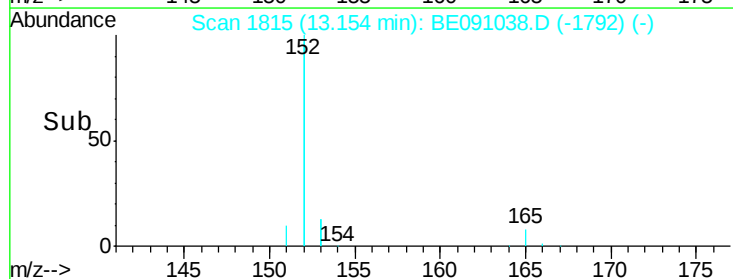
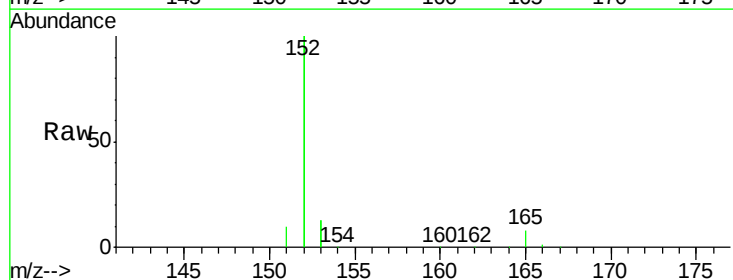
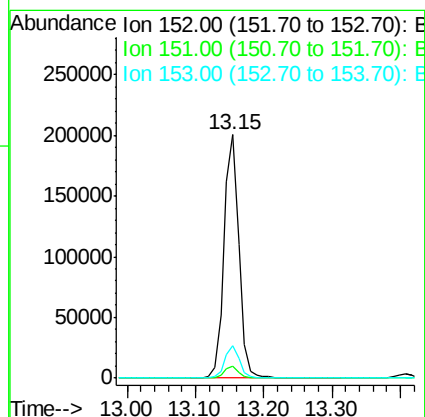
Manual Integrations  
APPROVED

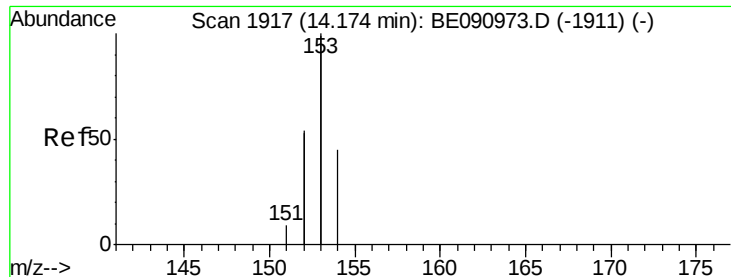
MmDadoda  
10/26/2015 7:17:50 PM



#16  
Acenaphthylene  
Concen: 3.63 ng  
RT: 13.15 min Scan# 1815  
Delta R.T. 0.00 min  
Lab File: BE091038.D  
Acq: 23 Oct 2015 17:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 4.8   | 3.9   | 5.9   |
| 153     | 13.0  | 10.3  | 15.5  |





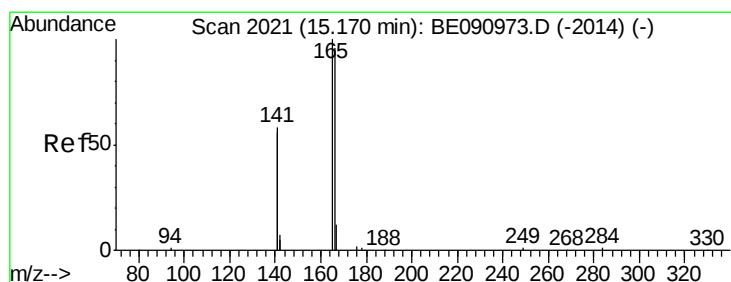
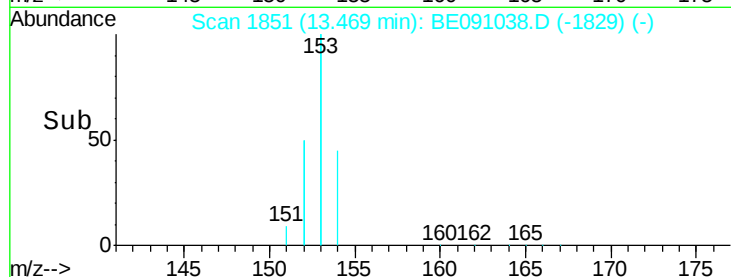
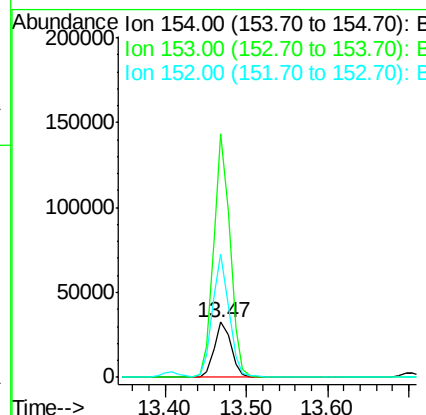
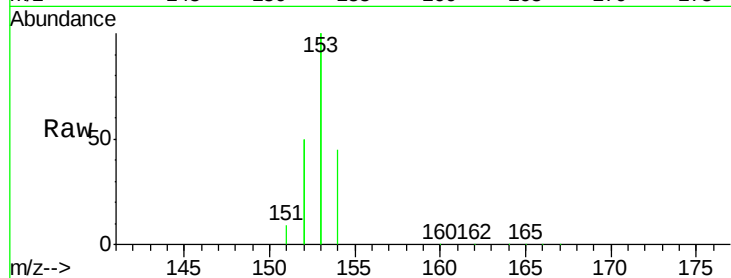
#17  
Acenaphthene  
Concen: 3.46 ng  
RT: 13.47 min Scan# 1851  
Delta R.T. -0.01 min  
Lab File: BE091038.D  
Acq: 23 Oct 2015 17:57

Instrument :  
BNA\_E  
ClientSampleId :  
PB86253BSD

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 434.1 | 352.0 | 528.0 |
| 152     | 221.0 | 200.0 | 300.0 |

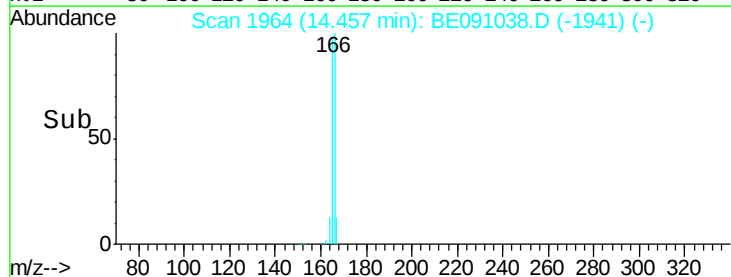
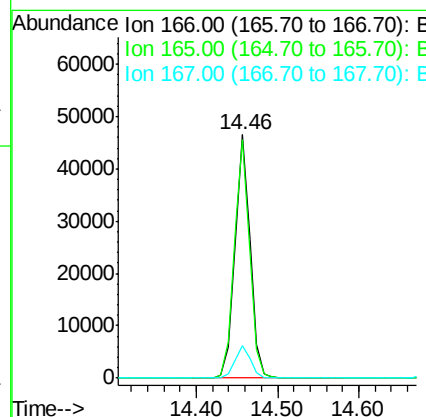
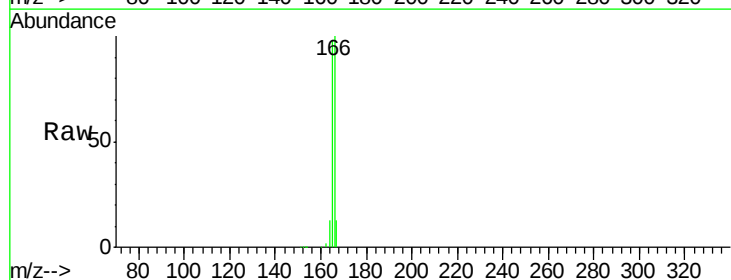
Manual Integrations  
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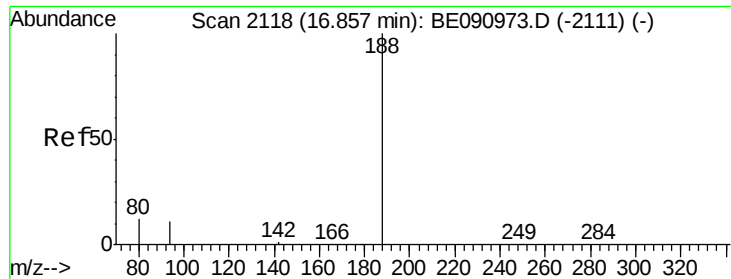
MmDadoda  
10/26/2015 7:17:50 PM



#18  
Fluorene  
Concen: 3.70 ng  
RT: 14.46 min Scan# 1964  
Delta R.T. 0.00 min  
Lab File: BE091038.D  
Acq: 23 Oct 2015 17:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 98.6  | 80.8  | 121.2 |
| 167     | 13.4  | 10.9  | 16.3  |





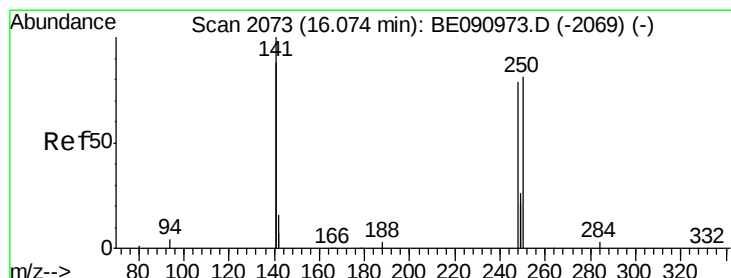
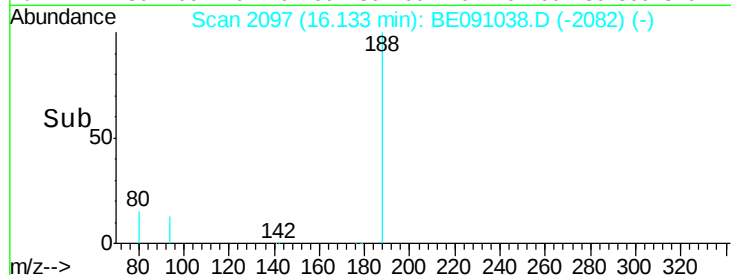
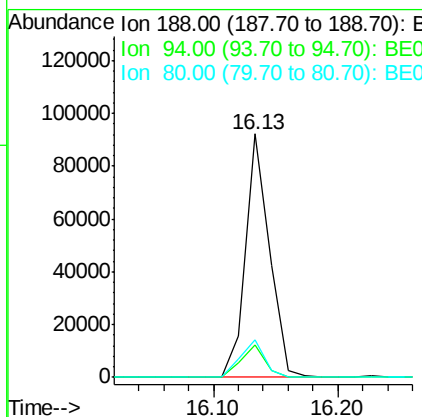
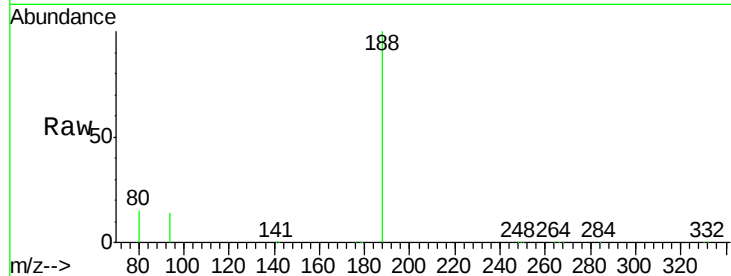
#19  
Phenanthrene-d10  
Concen: 5.00 ng  
RT: 16.13 min Scan# 2097  
Delta R.T. 0.00 min  
Lab File: BE091038.D  
Acq: 23 Oct 2015 17:57

Instrument :  
BNA\_E  
ClientSampleId :  
PB86253BSD

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 188     | 100   |            |            |
| 94      | 13.6  | 8.7        | 13.1#      |
| 80      | 15.3  | 9.4        | 14.0#      |

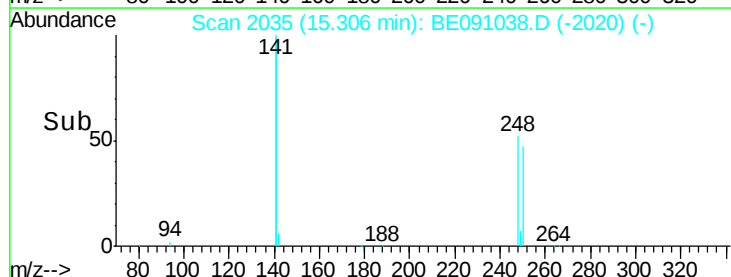
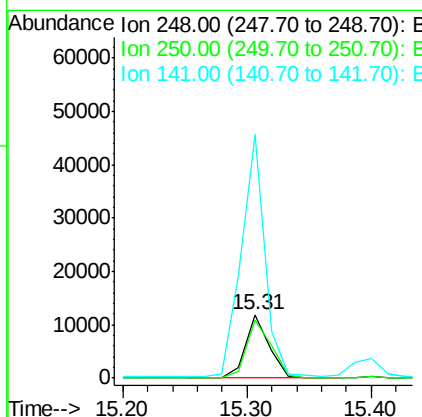
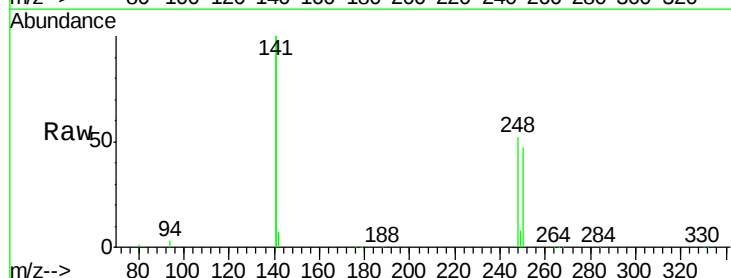
Manual Integrations  
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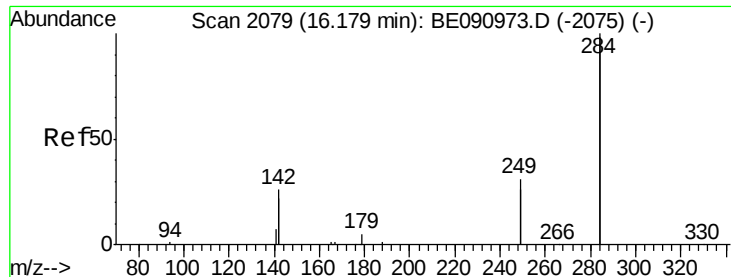
MmDadoda  
10/26/2015 7:17:50 PM



#20  
4-Bromophenyl-phenylether  
Concen: 3.30 ng  
RT: 15.31 min Scan# 2035  
Delta R.T. 0.00 min  
Lab File: BE091038.D  
Acq: 23 Oct 2015 17:57

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 248     | 100   |            |            |
| 250     | 96.8  | 80.5       | 120.7      |
| 141     | 384.9 | 261.9      | 392.9      |





#21

Hexachlorobenzene

Concen: 0.71 ng

RT: 15.40 min Scan# 2042

Delta R.T. 0.00 min

Lab File: BE091038.D

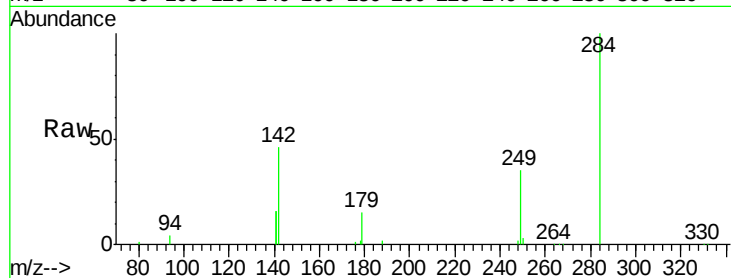
Acq: 23 Oct 2015 17:57

Instrument :

BNA\_E

ClientSampleId :

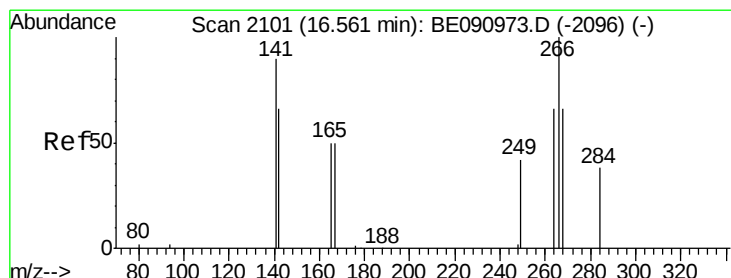
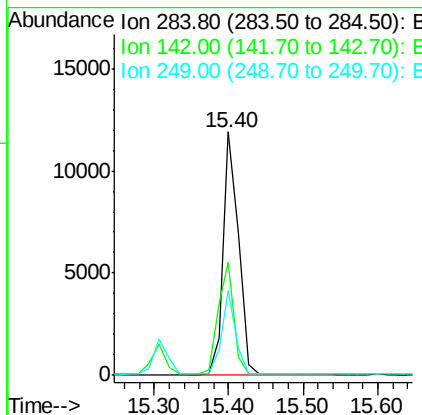
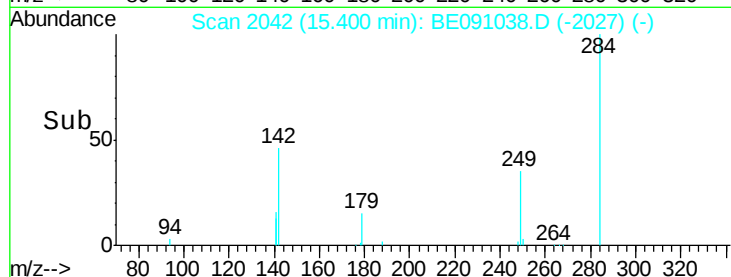
PB86253BSD



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 284   | Resp: | 16941 |
| Ion Ratio | Lower | Upper |       |
| 284       | 100   |       |       |
| 142       | 46.9  | 32.2  | 48.2  |
| 249       | 31.5  | 25.4  | 38.2  |

Manual Integrations  
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10/26/2015 7:17:50 PM



#22

Pentachlorophenol

Concen: 6.82 ng

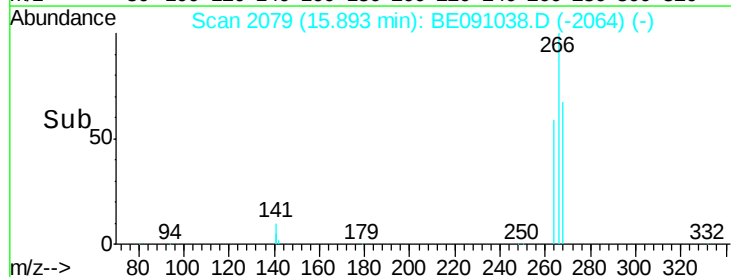
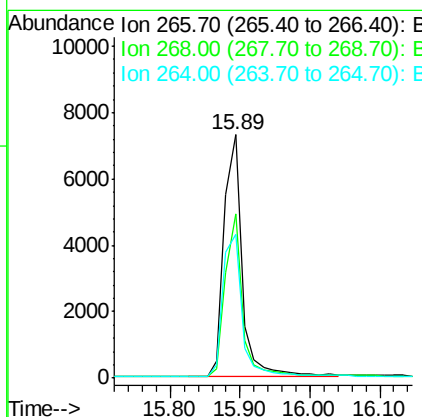
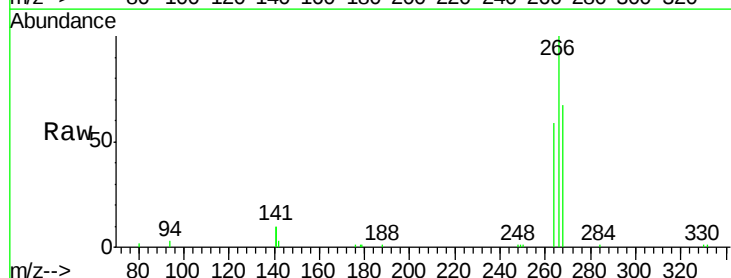
RT: 15.89 min Scan# 2079

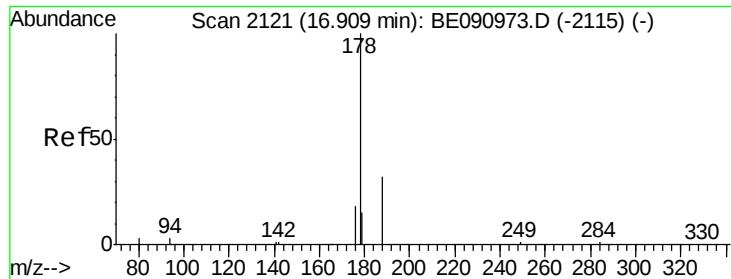
Delta R.T. 0.00 min

Lab File: BE091038.D

Acq: 23 Oct 2015 17:57

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 266   | Resp: | 13026 |
| Ion Ratio | Lower | Upper |       |
| 266       | 100   |       |       |
| 268       | 67.4  | 58.2  | 87.2  |
| 264       | 58.8  | 56.2  | 84.4  |





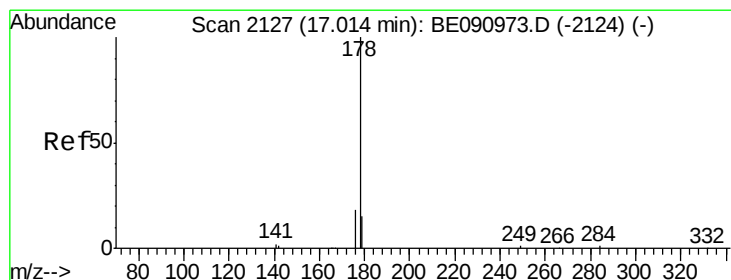
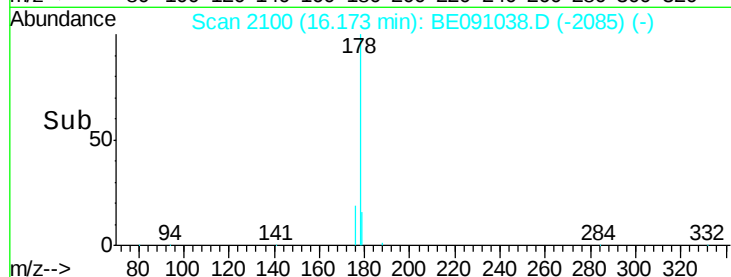
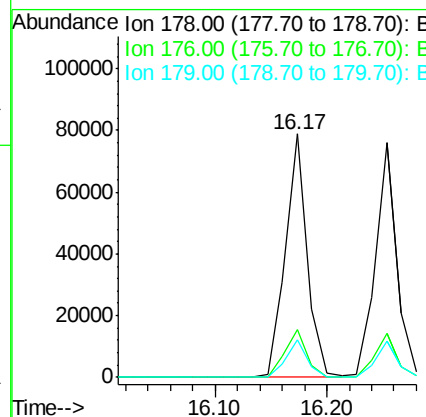
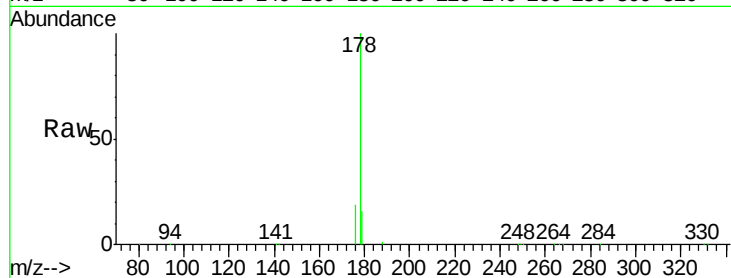
#23  
Phenanthrene  
Concen: 3.80 ng  
RT: 16.17 min Scan# 2100  
Delta R.T. 0.00 min  
Lab File: BE091038.D  
Acq: 23 Oct 2015 17:57

Instrument :  
BNA\_E  
ClientSampleId :  
PB86253BSD

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.5  | 15.3  | 22.9  |
| 179     | 15.4  | 12.6  | 18.8  |

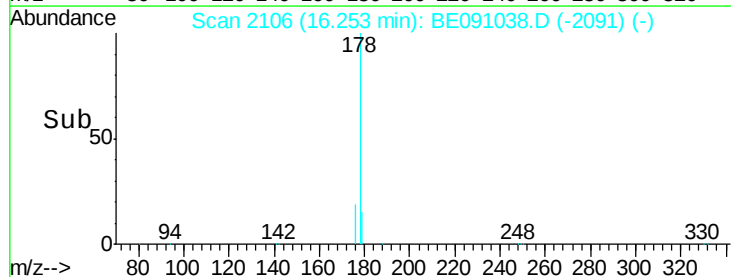
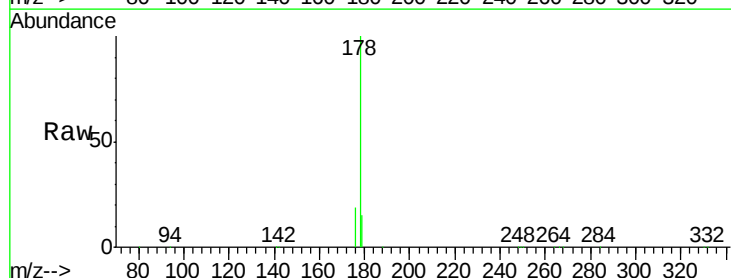
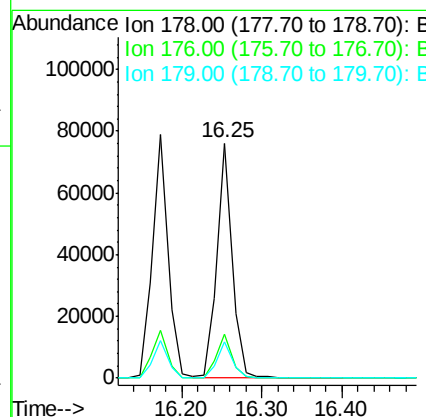
Manual Integrations  
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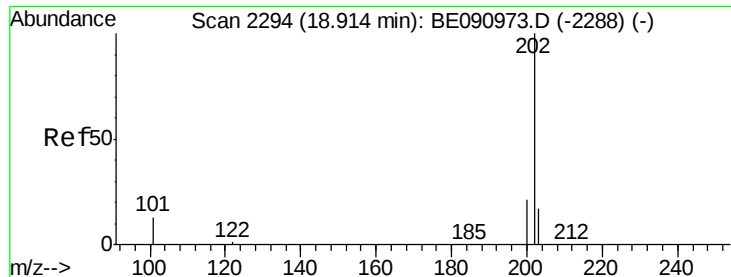
MmDadoda  
10/26/2015 7:17:50 PM



#24  
Anthracene  
Concen: 3.80 ng  
RT: 16.25 min Scan# 2106  
Delta R.T. 0.00 min  
Lab File: BE091038.D  
Acq: 23 Oct 2015 17:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.9  | 14.6  | 21.8  |
| 179     | 15.4  | 11.8  | 17.6  |





#25

Fluoranthene

Concen: 3.88 ng

RT: 18.16 min Scan# 2312

Delta R.T. 0.00 min

Lab File: BE091038.D

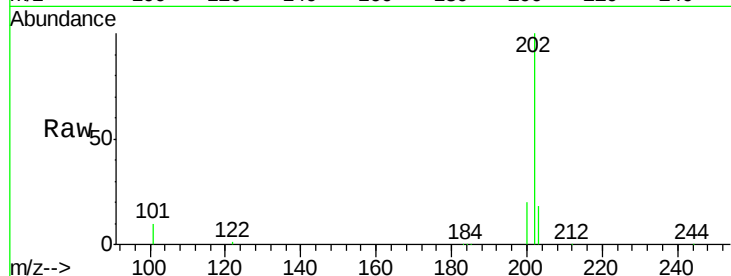
Acq: 23 Oct 2015 17:57

Instrument :

BNA\_E

ClientSampleId :

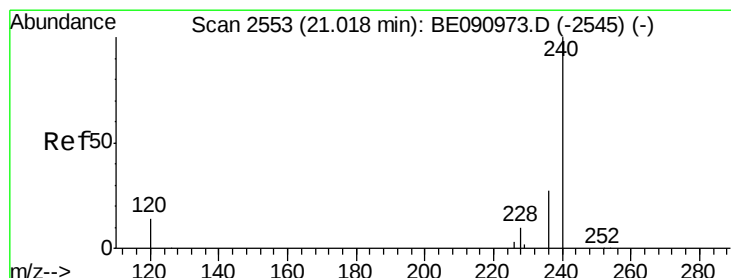
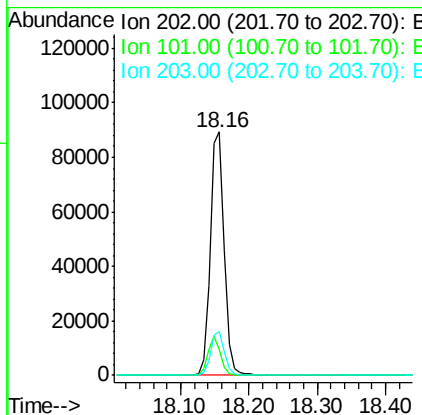
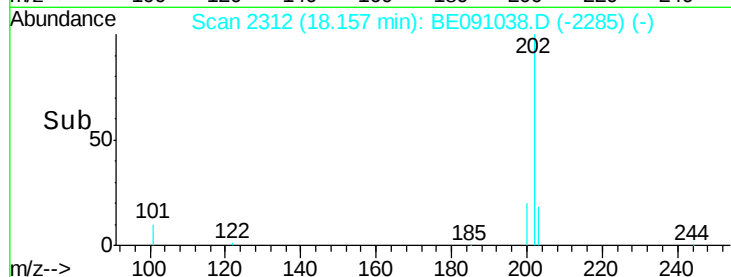
PB86253BSD



| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 202     | 100   | 124525 |       |       |
| 101     | 14.4  | 11.0   | 16.6  |       |
| 203     | 17.4  | 13.9   | 20.9  |       |

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MmDadoda  
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#26

Chrysene-d12

Concen: 5.00 ng

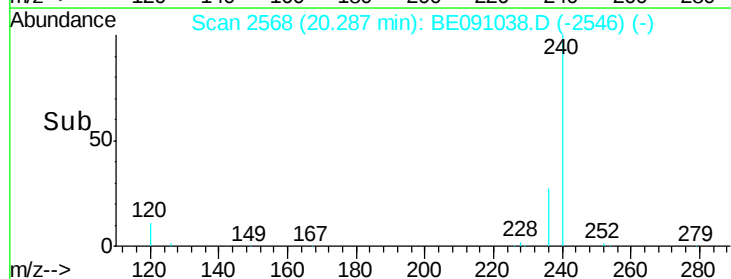
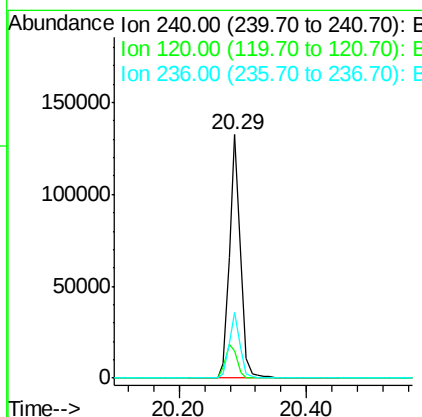
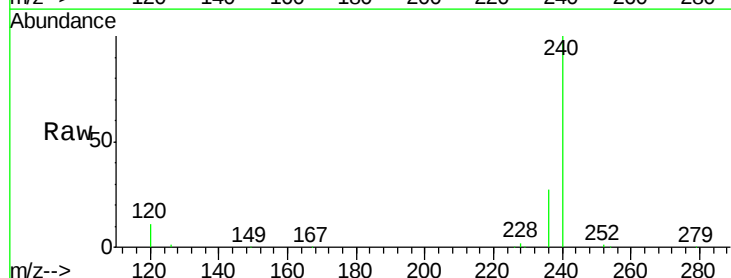
RT: 20.29 min Scan# 2568

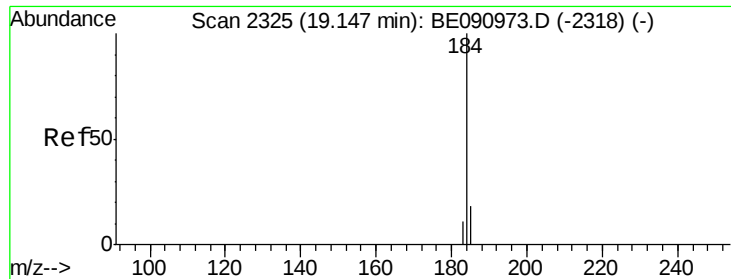
Delta R.T. -0.00 min

Lab File: BE091038.D

Acq: 23 Oct 2015 17:57

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 240     | 100   | 156196 |       |       |
| 120     | 11.2  | 11.0   | 16.4  |       |
| 236     | 27.2  | 21.7   | 32.5  |       |





#27

Benzidine

Concen: 10.15 ng

RT: 18.52 min Scan# 2360

Delta R.T. -0.01 min

Lab File: BE091038.D

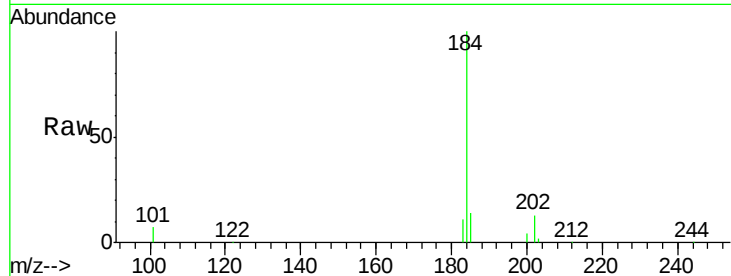
Acq: 23 Oct 2015 17:57

Instrument :

BNA\_E

ClientSampleId :

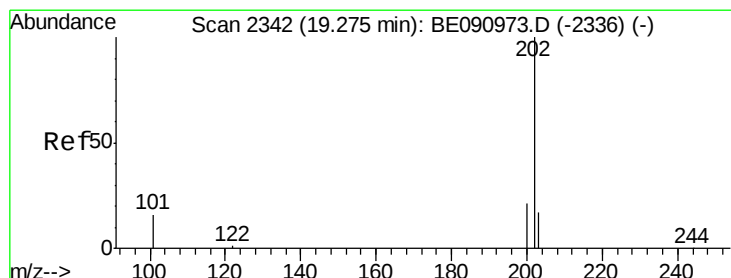
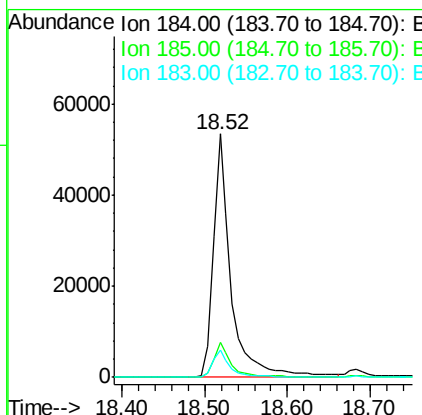
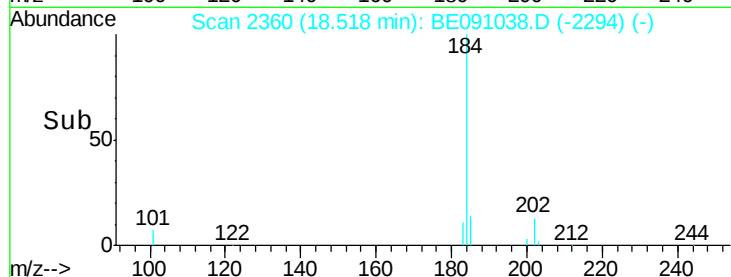
PB86253BSD



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 184   | Resp: | 80258 |
| Ion Ratio | Lower | Upper |       |
| 184       | 100   |       |       |
| 185       | 14.3  | 22.3  | 33.5# |
| 183       | 11.2  | 16.4  | 24.6# |

Manual Integrations  
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MmDadoda  
10/26/2015 7:17:50 PM



#28

Pyrene

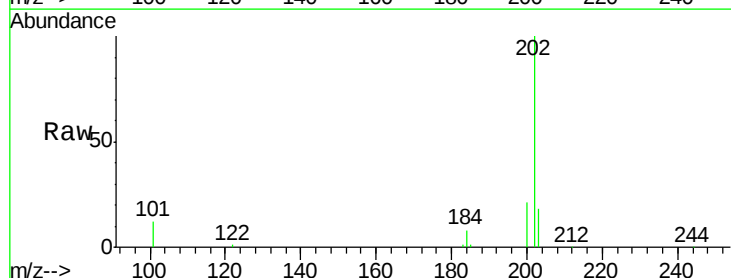
Concen: 3.82 ng

RT: 18.54 min Scan# 2363

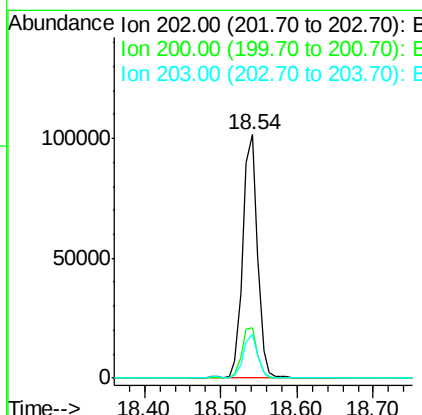
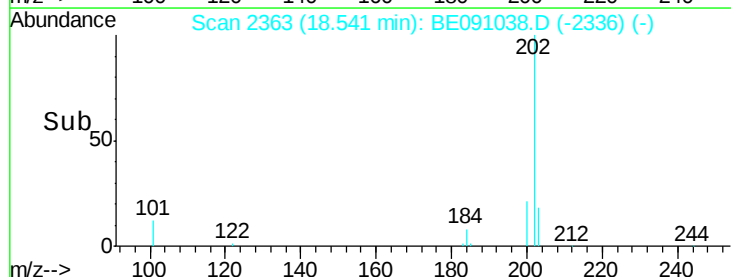
Delta R.T. 0.00 min

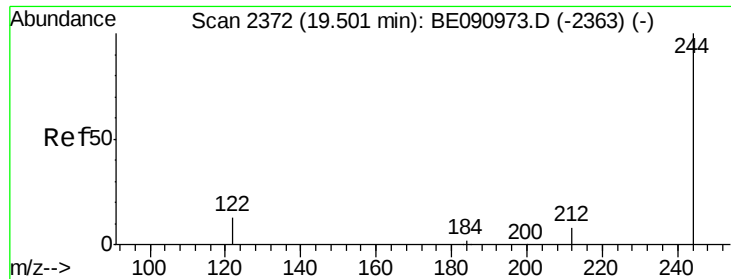
Lab File: BE091038.D

Acq: 23 Oct 2015 17:57



|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 137308 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 200       | 21.4  | 16.8  | 25.2   |
| 203       | 17.2  | 14.0  | 21.0   |





#29

Terphenyl-d14

Concen: 3.97 ng

RT: 18.68 min Scan# 2382

Delta R.T. -0.01 min

Lab File: BE091038.D

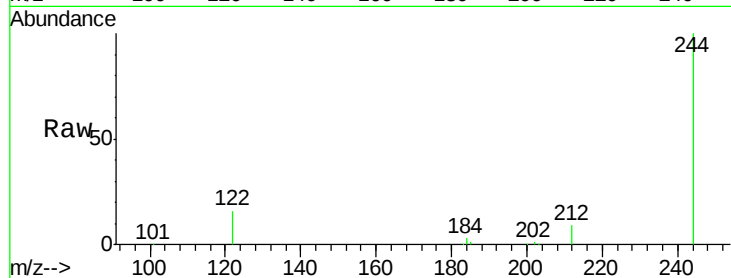
Acq: 23 Oct 2015 17:57

Instrument :

BNA\_E

ClientSampleId :

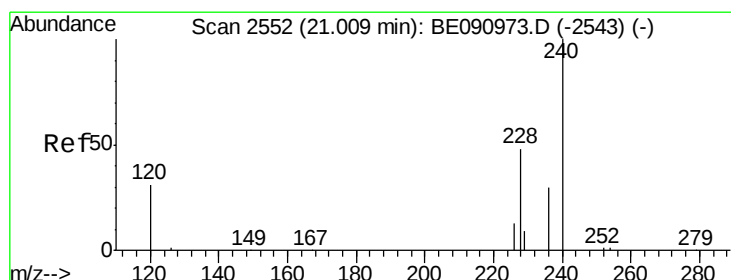
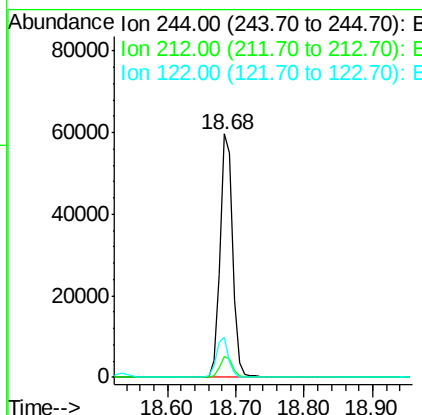
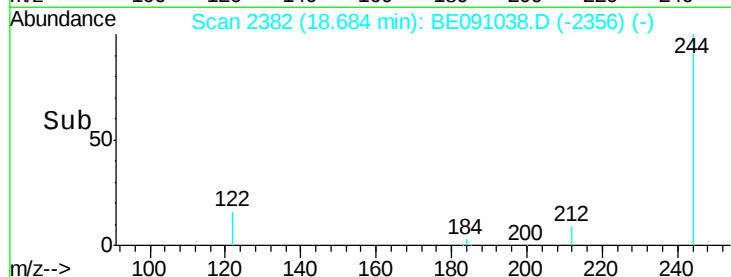
PB86253BSD



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 244   | Resp: | 76470 |
| Ion Ratio | Lower | Upper |       |
| 244       | 100   |       |       |
| 212       | 8.7   | 6.9   | 10.3  |
| 122       | 16.5  | 11.0  | 16.4  |

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#30

Benzo(a)anthracene

Concen: 3.73 ng

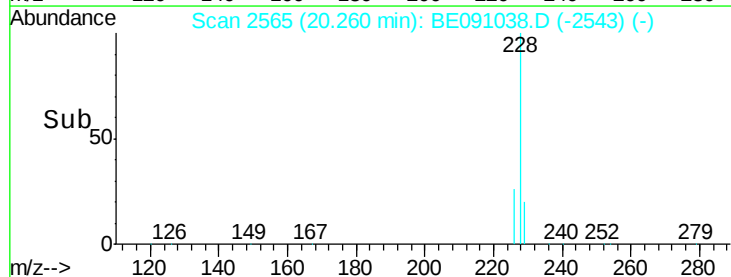
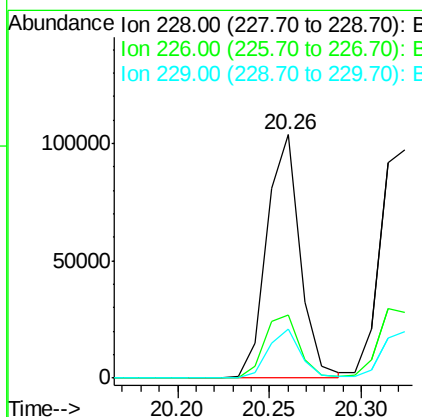
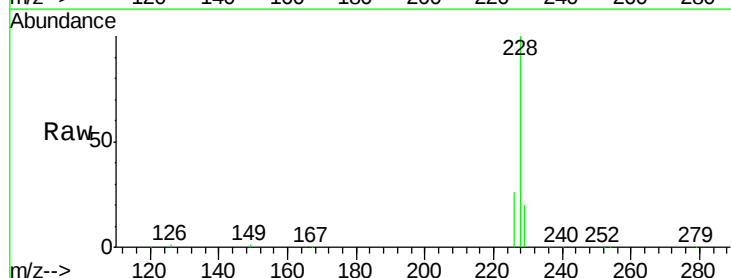
RT: 20.26 min Scan# 2565

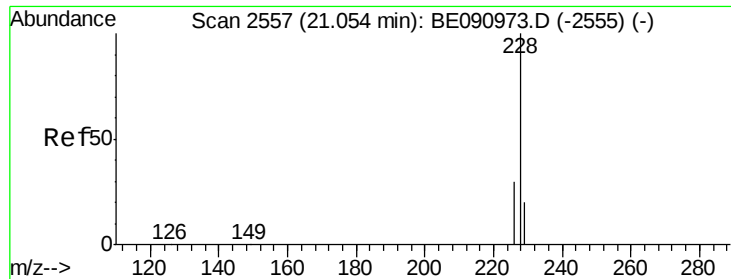
Delta R.T. -0.00 min

Lab File: BE091038.D

Acq: 23 Oct 2015 17:57

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 129739 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 26.2  | 21.0  | 31.4   |
| 229       | 20.3  | 15.7  | 23.5   |





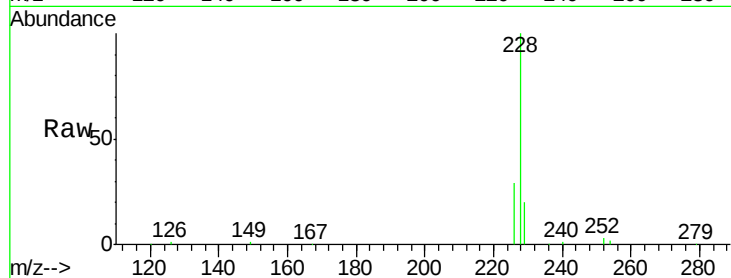
#32  
**Chrysene**  
 Concen: 3.63 ng  
 RT: 20.32 min Scan# 2572  
 Delta R.T. 0.01 min  
 Lab File: BE091038.D  
 Acq: 23 Oct 2015 17:57

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB86253BSD

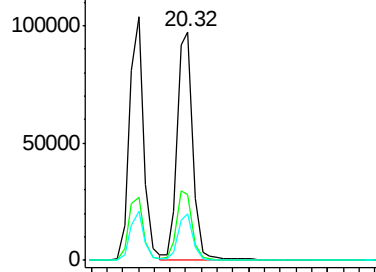
|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 228  | Resp: | 133556 |
| Ion Ratio |      | Lower | Upper  |
| 228       | 100  |       |        |
| 226       | 28.8 | 24.0  | 36.0   |
| 229       | 20.4 | 15.9  | 23.9   |

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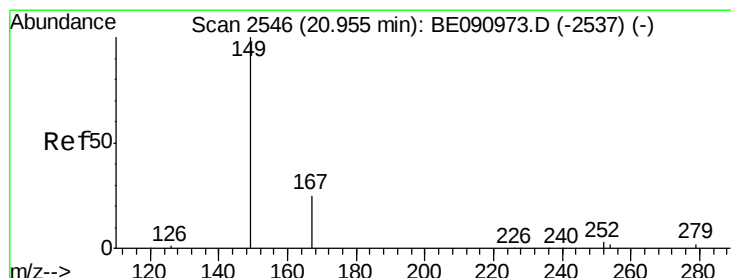
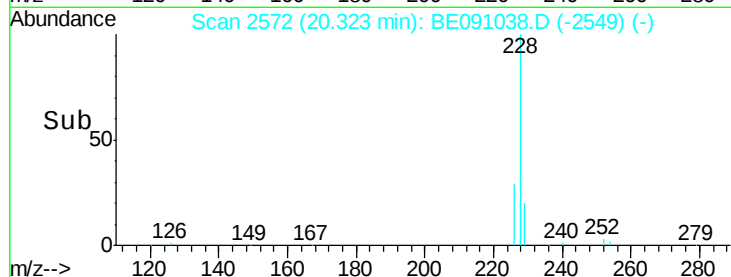
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Abundance Ion 228.00 (227.70 to 228.70): E  
 Ion 226.00 (225.70 to 226.70): E  
 Ion 229.00 (228.70 to 229.70): E



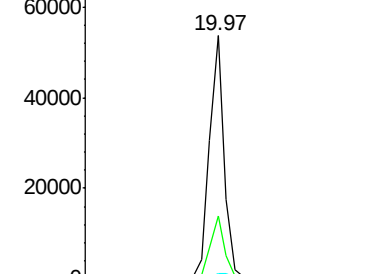
Time--> 20.20 20.30 20.40 20.50



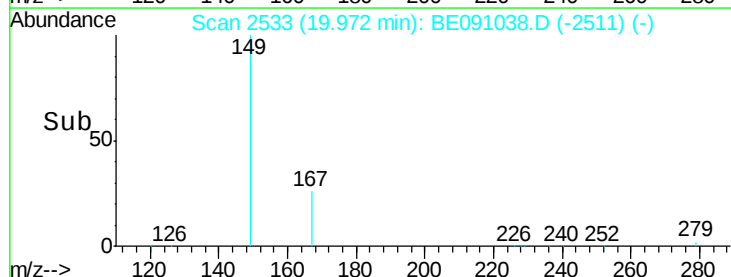
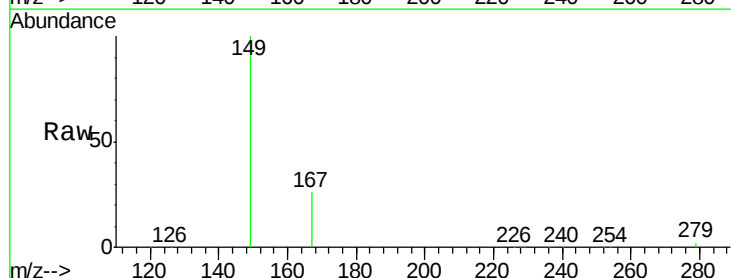
#33  
**Bis(2-ethylhexyl)phthalate**  
 Concen: 4.02 ng  
 RT: 19.97 min Scan# 2533  
 Delta R.T. -0.00 min  
 Lab File: BE091038.D  
 Acq: 23 Oct 2015 17:57

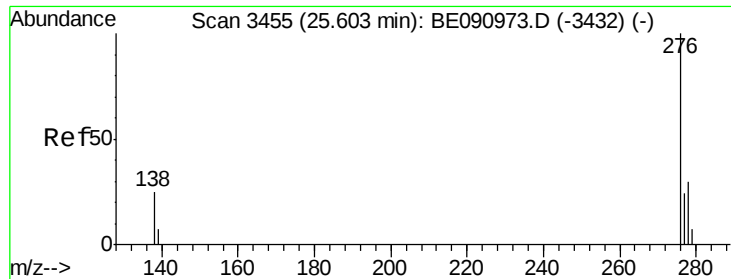
|           |      |       |       |
|-----------|------|-------|-------|
| Tgt Ion:  | 149  | Resp: | 58932 |
| Ion Ratio |      | Lower | Upper |
| 149       | 100  |       |       |
| 167       | 25.0 | 19.5  | 29.3  |
| 279       | 2.8  | 2.3   | 3.5   |

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



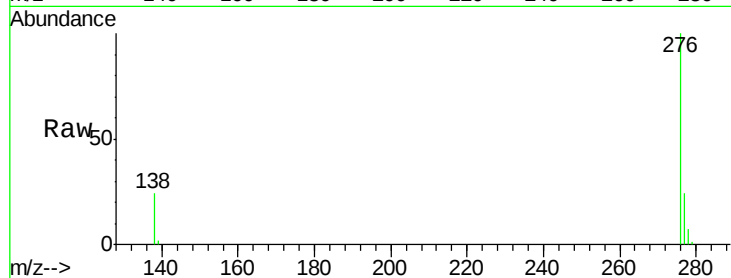
Time--> 19.90 20.00 20.10





#34  
Indeno(1,2,3-cd)pyrene  
Concen: 3.52 ng  
RT: 23.83 min Scan# 3261  
Delta R.T. -0.00 min  
Lab File: BE091038.D  
Acq: 23 Oct 2015 17:57

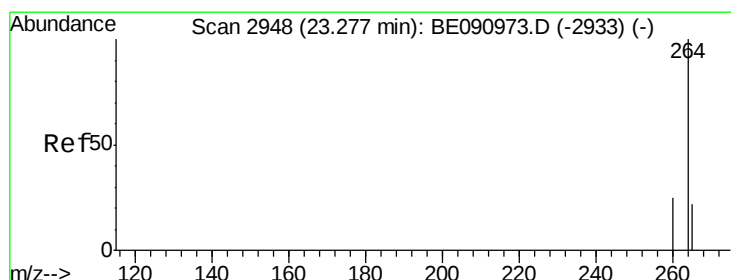
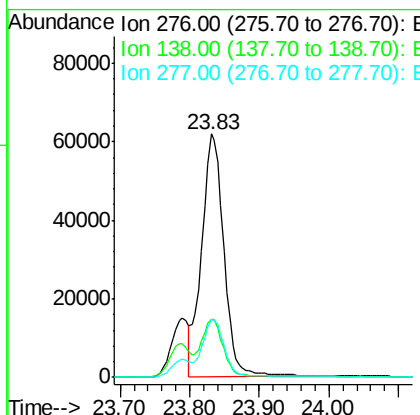
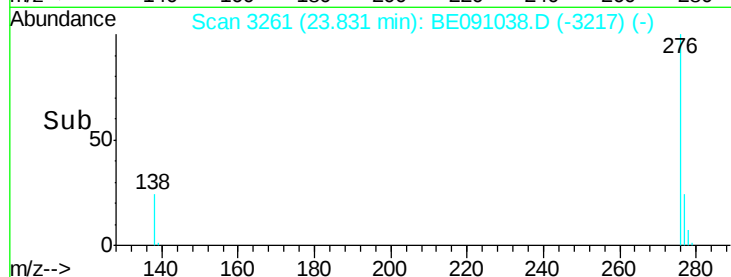
Instrument :  
BNA\_E  
ClientSampleId :  
PB86253BSD



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 23.4  | 23.4  | 35.2# |
| 277     | 23.4  | 19.8  | 29.8  |

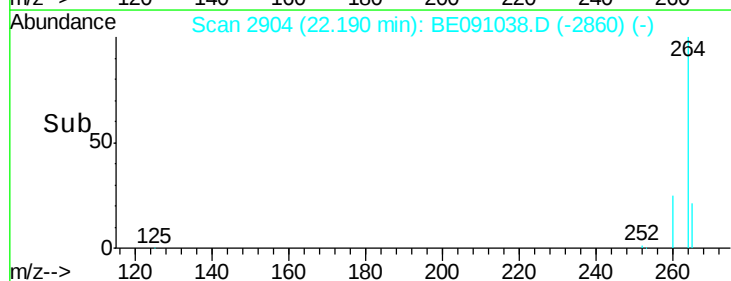
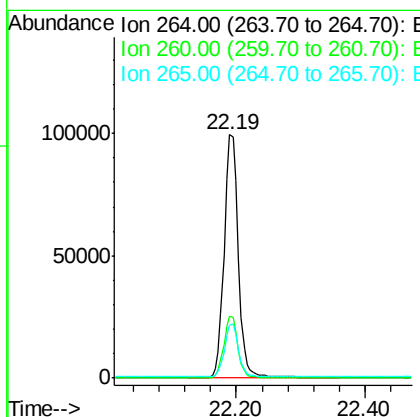
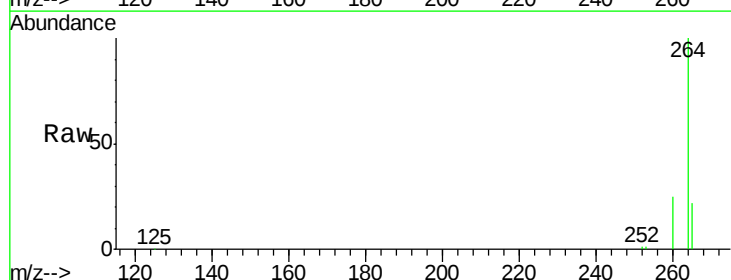
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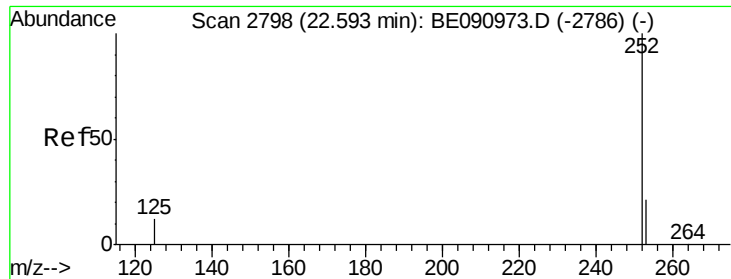
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#35  
Perylene-d12  
Concen: 5.00 ng  
RT: 22.19 min Scan# 2904  
Delta R.T. -0.00 min  
Lab File: BE091038.D  
Acq: 23 Oct 2015 17:57

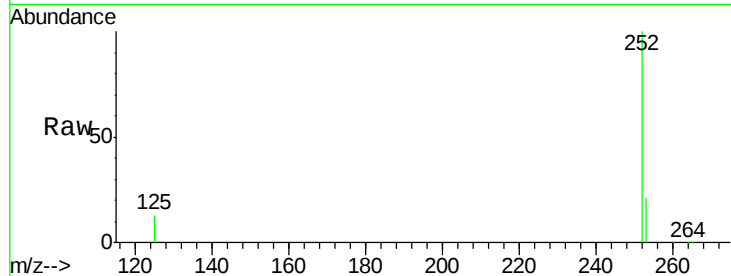
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 25.3  | 20.0  | 30.0  |
| 265     | 21.6  | 17.5  | 26.3  |





#36  
Benzo(b)fluoranthene  
Concen: 3.93 ng  
RT: 21.62 min Scan# 2780  
Delta R.T. -0.00 min  
Lab File: BE091038.D  
Acq: 23 Oct 2015 17:57

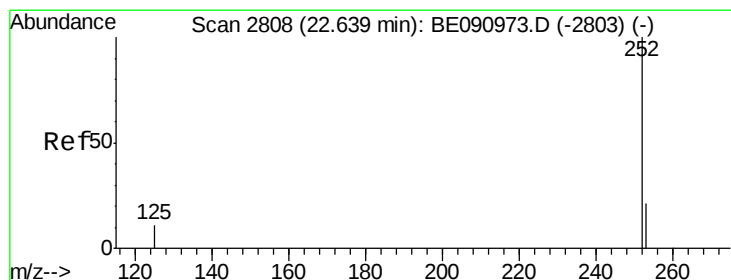
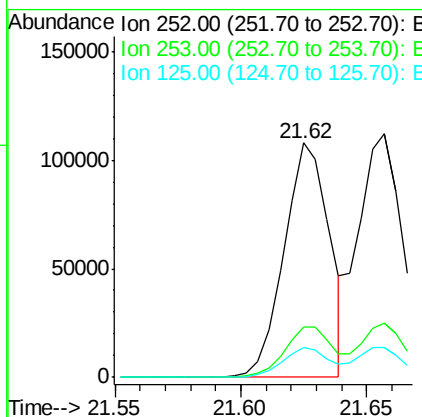
Instrument :  
BNA\_E  
ClientSampleId :  
PB86253BSD



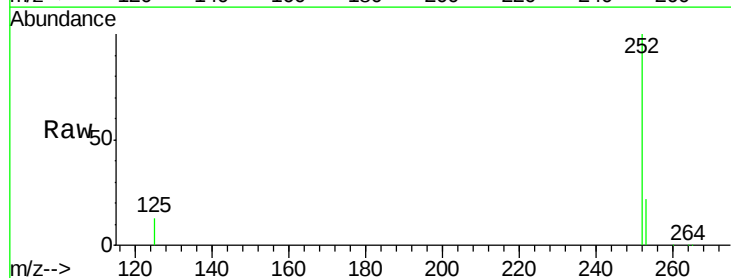
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 21.3  | 17.4  | 26.0  |
| 125     | 13.0  | 10.2  | 15.2  |

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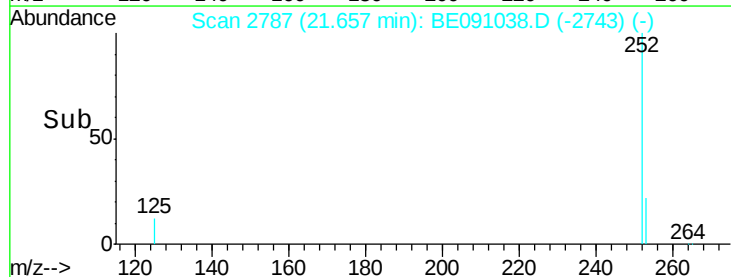
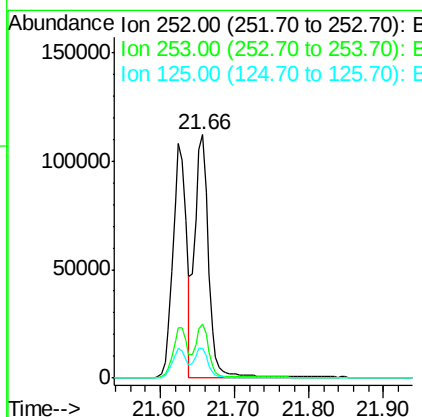
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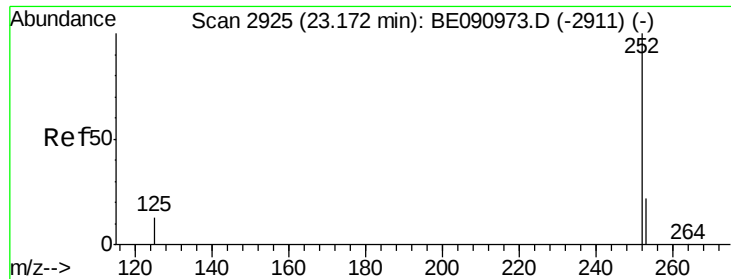


#37  
Benzo(k)fluoranthene  
Concen: 3.49 ng  
RT: 21.66 min Scan# 2787  
Delta R.T. -0.00 min  
Lab File: BE091038.D  
Acq: 23 Oct 2015 17:57



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.5  | 17.6  | 26.4  |
| 125     | 12.5  | 9.9   | 14.9  |





#38

Benzo(a)pyrene

Concen: 4.15 ng

RT: 22.09 min Scan# 2883

Delta R.T. -0.00 min

Lab File: BE091038.D

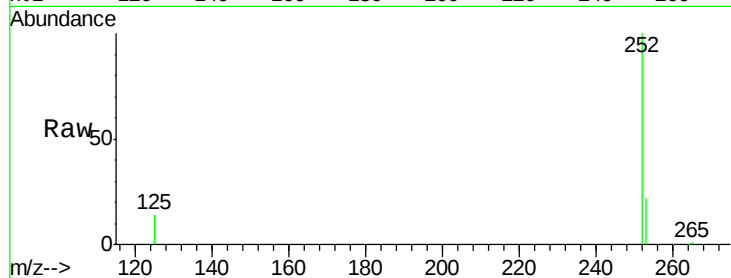
Acq: 23 Oct 2015 17:57

Instrument :

BNA\_E

ClientSampleId :

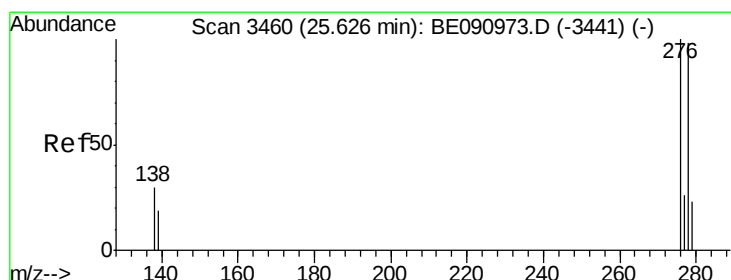
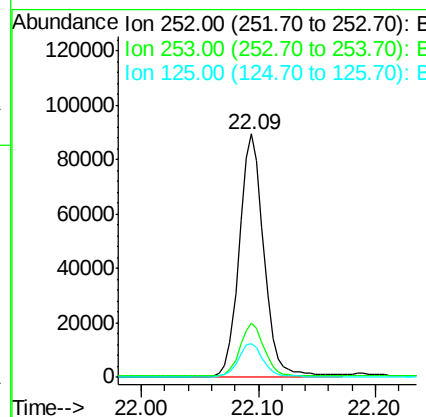
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| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.3  | 18.1  | 27.1  |
| 125     | 14.0  | 11.0  | 16.4  |

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#39

Dibenzo(a,h)anthracene

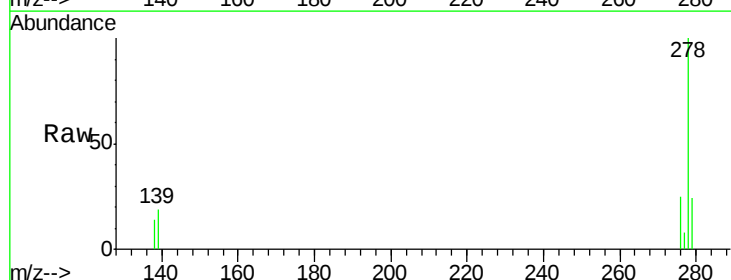
Concen: 4.28 ng

RT: 23.79 min Scan# 3252

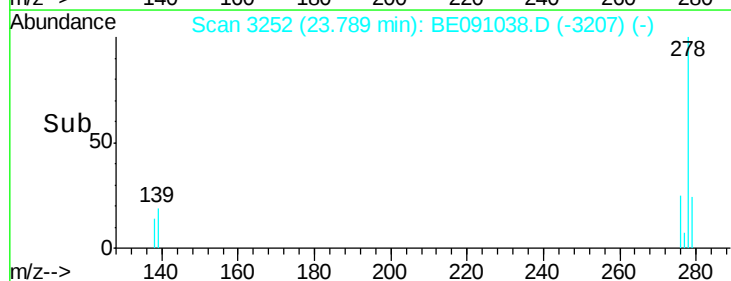
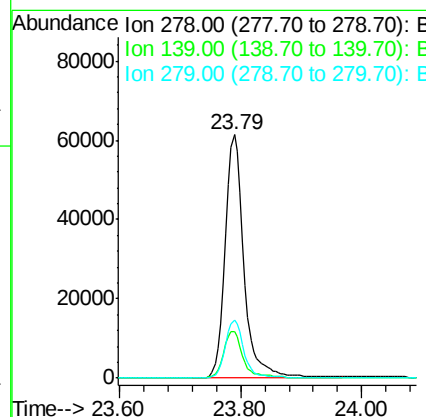
Delta R.T. 0.00 min

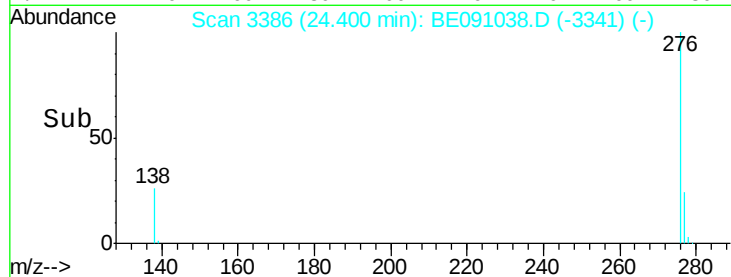
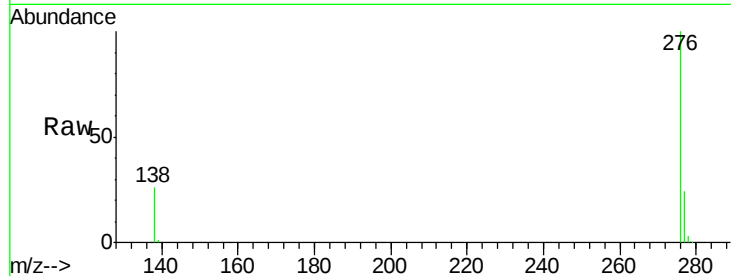
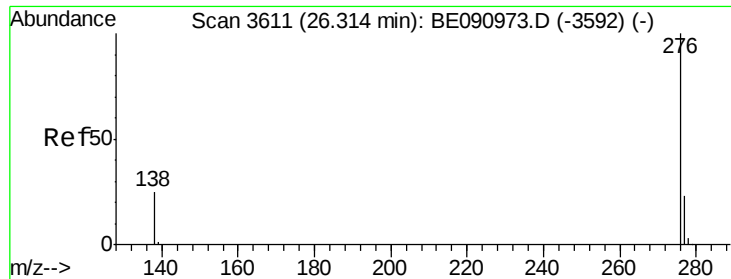
Lab File: BE091038.D

Acq: 23 Oct 2015 17:57



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 19.2  | 16.0  | 24.0  |
| 279     | 23.8  | 19.4  | 29.2  |





#40

Benzo(g,h,i)perylene

Concen: 4.17 ng

RT: 24.40 min Scan# 3386

Delta R.T. 0.00 min

Lab File: BE091038.D

Acq: 23 Oct 2015 17:57

Instrument :

BNA\_E

ClientSampleId :

PB86253BSD

|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 276  | Resp: | 140426 |
| Ion Ratio |      | Lower | Upper  |
| 276       | 100  |       |        |
| 277       | 23.9 | 18.6  | 28.0   |
| 138       | 25.9 | 20.4  | 30.6   |

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