

Data Path : Z:\HPCHEM1\BNA E\DATA\BE041116\  
 Data File : BE091642.D  
 Acq On : 11 Apr 2016 23:37  
 Operator : UM/SJ  
 Sample : H2090-05  
 Misc :  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 KY038PS027-160330

Manual Integrations  
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Sohil  
 4/12/2016 5:33:53 PM

Quant Time: Apr 12 06:59:52 2016  
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE040816.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Apr 08 16:48:14 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.80  | 152  | 196038   | 5.00 | ng    | -0.02    |
| 7) Naphthalene-d8         | 10.57 | 136  | 997052   | 5.00 | ng    | -0.02    |
| 13) Acenaphthene-d10      | 14.42 | 164  | 614477   | 5.00 | ng    | 0.00     |
| 19) Phenanthrene-d10      | 17.16 | 188  | 1540667  | 5.00 | ng    | 0.00     |
| 26) Chrysene-d12          | 21.31 | 240  | 1666874  | 5.00 | ng    | 0.00     |
| 35) Perylene-d12          | 23.76 | 264  | 1564470  | 5.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Fluorophenol           | 5.41  | 112  | 102720   | 2.20 | ng    | 0.00     |
| 5) Phenol-d6                | 6.97  | 99   | 101369   | 1.63 | ng    | 0.00     |
| 8) Nitrobenzene-d5          | 8.96  | 82   | 242954   | 4.19 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol    | 15.90 | 330  | 195134   | 8.66 | ng    | -0.01    |
| 15) 2-Fluorobiphenyl        | 13.05 | 172  | 642204   | 3.76 | ng    | 0.00     |
| 29) Terphenyl-d14           | 19.76 | 244  | 1119531  | 5.38 | ng    | 0.00     |

| Target Compounds               | R.T.  | QIon | Response | Conc | Units | Qvalue |
|--------------------------------|-------|------|----------|------|-------|--------|
| 24) Anthracene                 | 17.29 | 178  | 8152     | 0.03 | ng    | 99     |
| 30) Benzo(a)anthracene         | 21.29 | 228  | 15322m   | 0.04 | ng    |        |
| 32) Chrysene                   | 21.34 | 228  | 10380m   | 0.03 | ng    |        |
| 33) Bis(2-ethylhexyl)phthalate | 21.22 | 149  | 35928    | 0.39 | ng    | # 83   |
| 34) Indeno(1,2,3-cd)pyrene     | 26.32 | 276  | 9909     | 0.03 | ng    | 97     |
| 36) Benzo(b)fluoranthene       | 23.01 | 252  | 10102    | 0.03 | ng    | # 77   |
| 37) Benzo(k)fluoranthene       | 23.06 | 252  | 9635     | 0.03 | ng    | # 84   |
| 39) Dibenzo(a,h)anthracene     | 26.34 | 278  | 9358     | 0.03 | ng    | 94     |
| 40) Benzo(g,h,i)perylene       | 27.10 | 276  | 8931     | 0.03 | ng    | 96     |

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

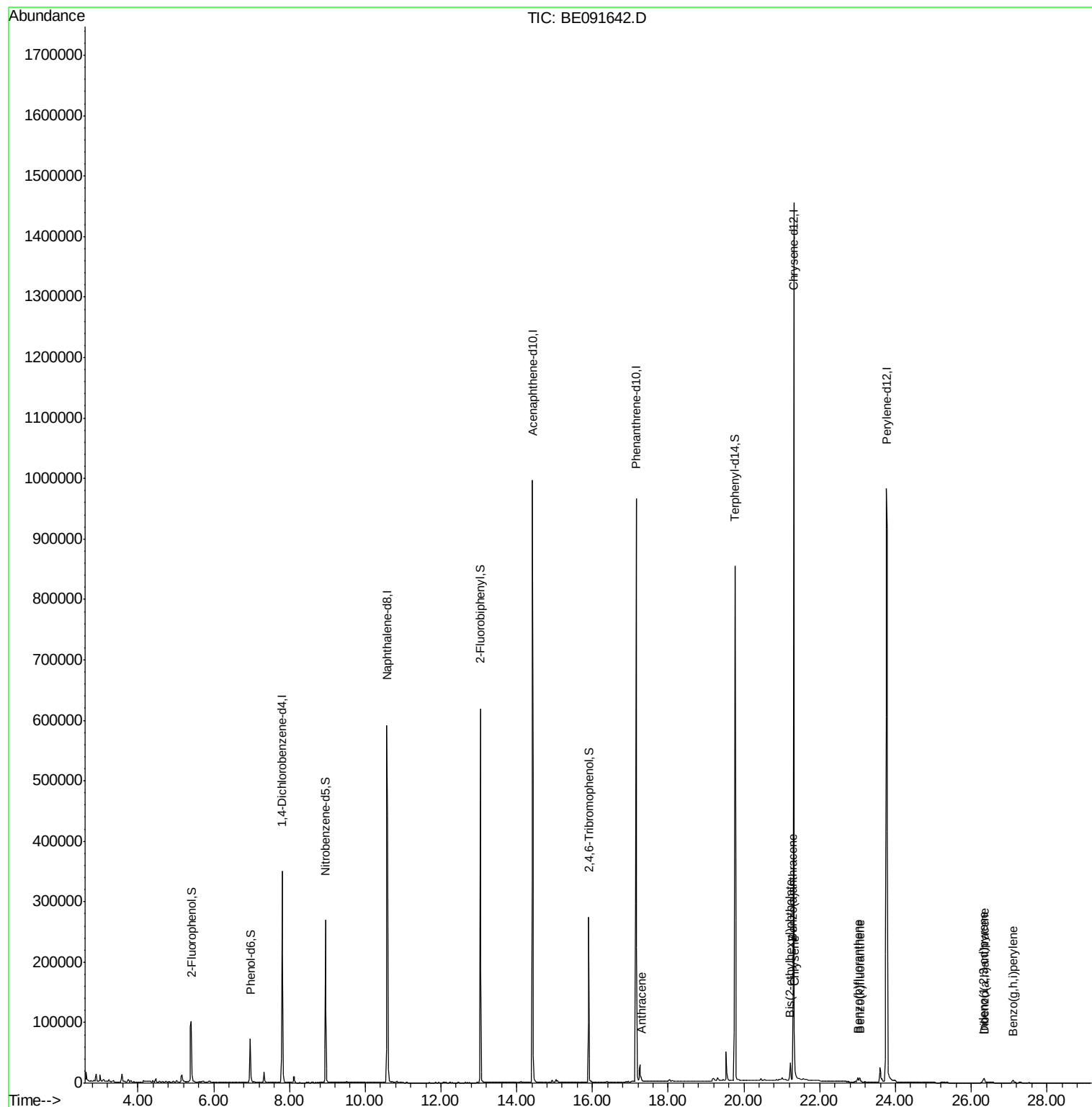
Data Path : Z:\HPCHEM1\BNA E\DATA\BE041116\  
Data File : BE091642.D  
Acq On : 11 Apr 2016 23:37  
Operator : UM/SJ  
Sample : H2090-05  
Misc :  
ALS Vial : 29 Sample Multiplier: 1

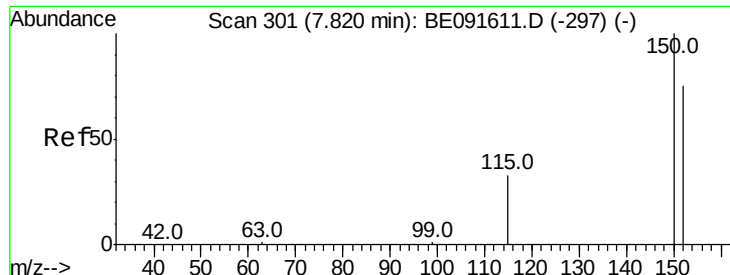
Instrument :  
BNA\_E  
ClientSampleId :  
KY038PS027-160330

Manual Integrations  
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Quant Time: Apr 12 06:59:52 2016  
Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE040816.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Apr 08 16:48:14 2016  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.80 min Scan# 300

Delta R.T. -0.02 min

Lab File: BE091642.D

Acq: 11 Apr 2016 23:37

Instrument :

BNA\_E

ClientSampleId :

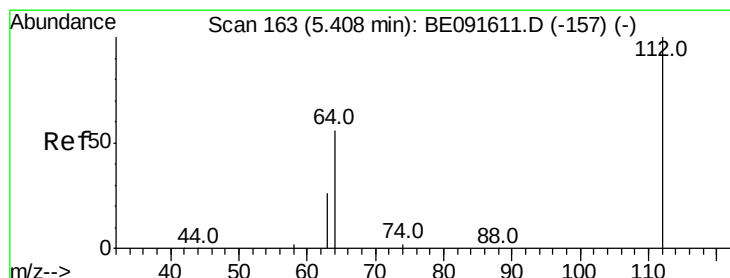
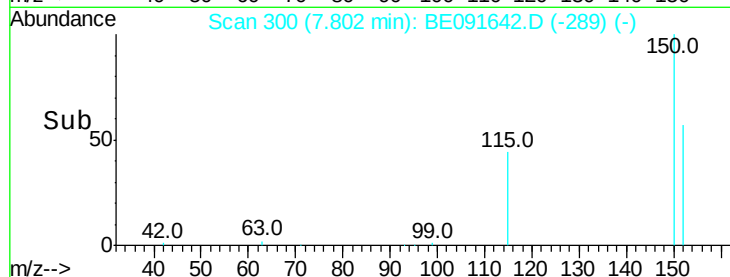
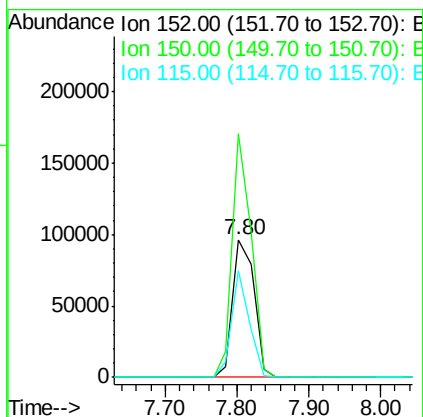
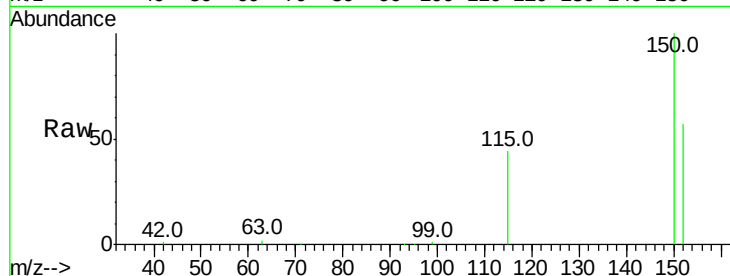
KY038PS027-160330

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|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 152   | Resp: | 196038 |
| Ion Ratio | Lower | Upper |        |
| 152       | 100   |       |        |
| 150       | 176.6 | 122.6 | 183.8  |
| 115       | 77.1  | 52.8  | 79.2   |



#4

2-Fluorophenol

Concen: 2.20 ng

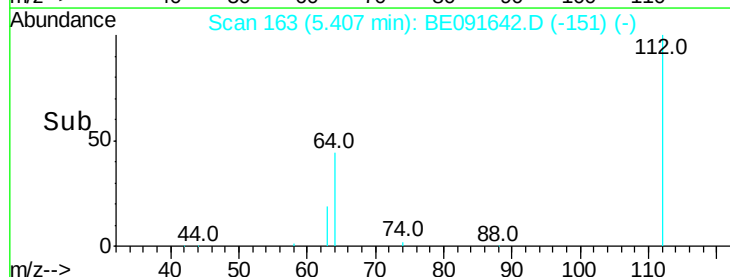
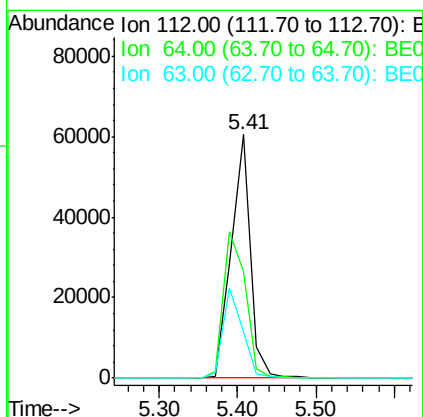
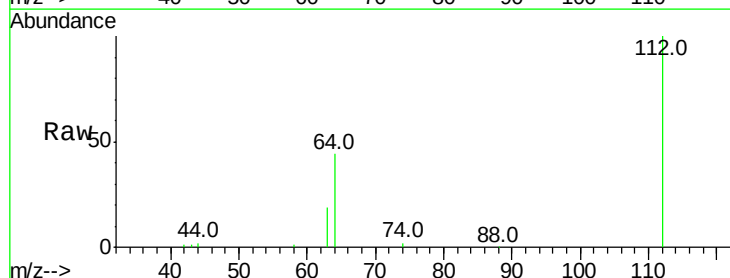
RT: 5.41 min Scan# 163

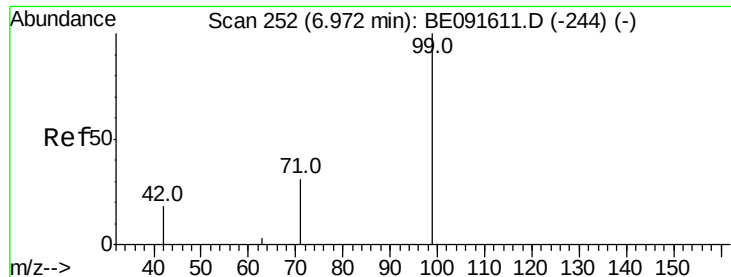
Delta R.T. -0.00 min

Lab File: BE091642.D

Acq: 11 Apr 2016 23:37

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 112   | Resp: | 102720 |
| Ion Ratio | Lower | Upper |        |
| 112       | 100   |       |        |
| 64        | 68.5  | 30.9  | 46.3#  |
| 63        | 37.2  | 16.7  | 25.1#  |





#5

Phenol-d6

Concen: 1.63 ng

RT: 6.97 min Scan# 252

Delta R.T. -0.00 min

Lab File: BE091642.D

Acq: 11 Apr 2016 23:37

Instrument :

BNA\_E

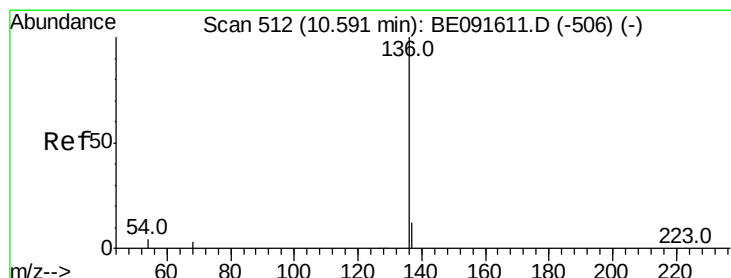
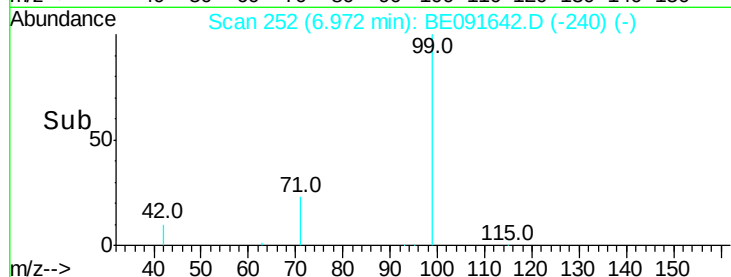
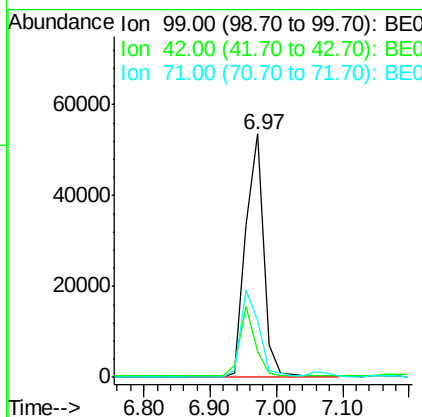
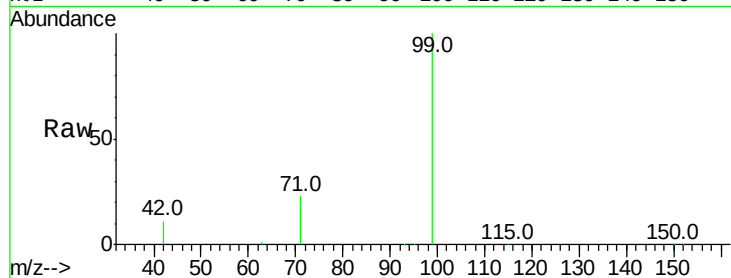
ClientSampleId :

KY038PS027-160330

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 99      | 100   |       |       |
| 42      | 24.9  | 16.2  | 24.2# |
| 71      | 36.6  | 29.0  | 43.4  |

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#7

Naphthalene-d8

Concen: 5.00 ng

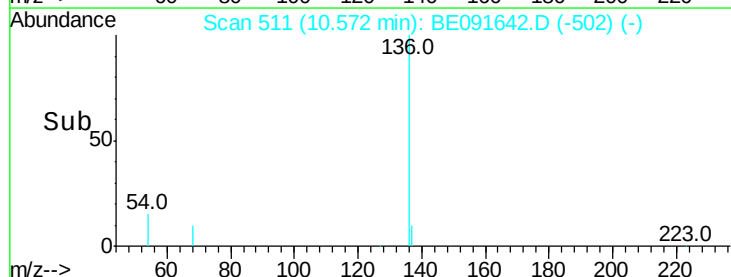
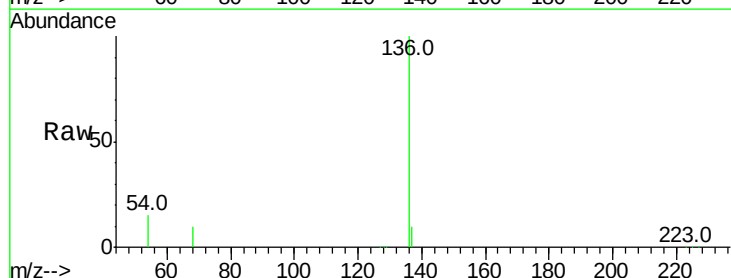
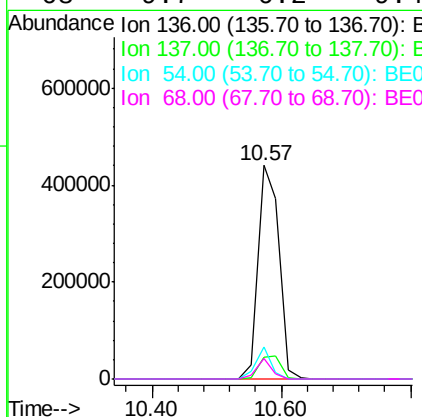
RT: 10.57 min Scan# 511

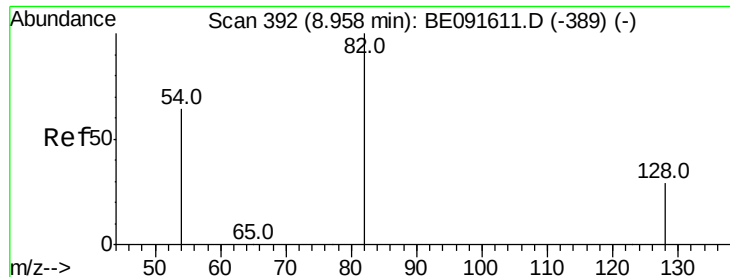
Delta R.T. -0.02 min

Lab File: BE091642.D

Acq: 11 Apr 2016 23:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 136     | 100   |       |       |
| 137     | 9.9   | 8.9   | 13.3  |
| 54      | 14.8  | 8.2   | 12.4# |
| 68      | 9.7   | 6.2   | 9.4#  |





#8

Nitrobenzene-d5

Concen: 4.19 ng

RT: 8.96 min Scan# 392

Delta R.T. -0.00 min

Lab File: BE091642.D

Acq: 11 Apr 2016 23:37

Instrument :

BNA\_E

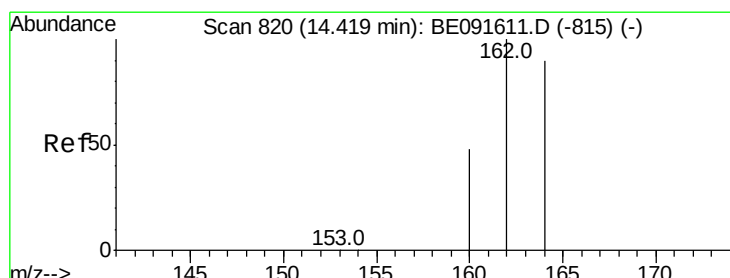
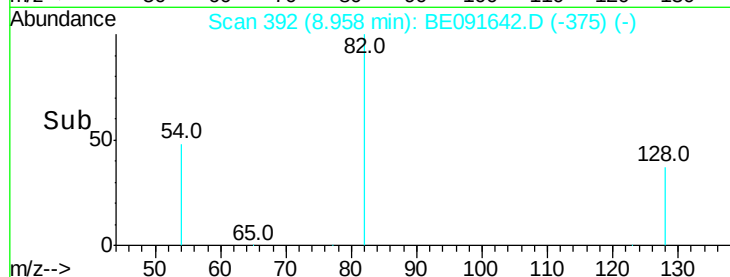
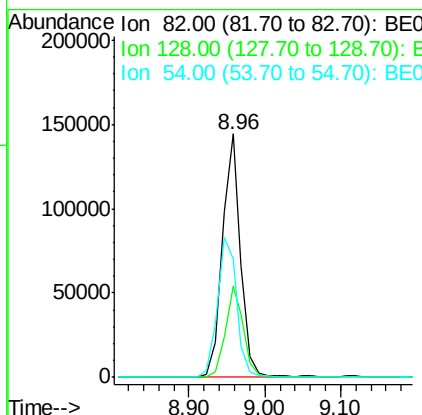
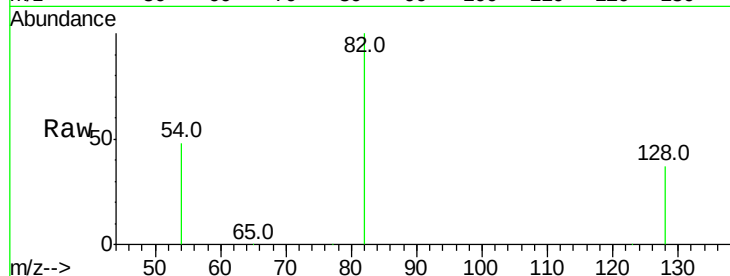
ClientSampleId :

KY038PS027-160330

| Tot Ion   | 82    | Resp  | 242954 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 37.4  | 25.4  | 38.0   |
| 54        | 48.3  | 48.4  | 72.6   |

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#13

Acenaphthene-d10

Concen: 5.00 ng

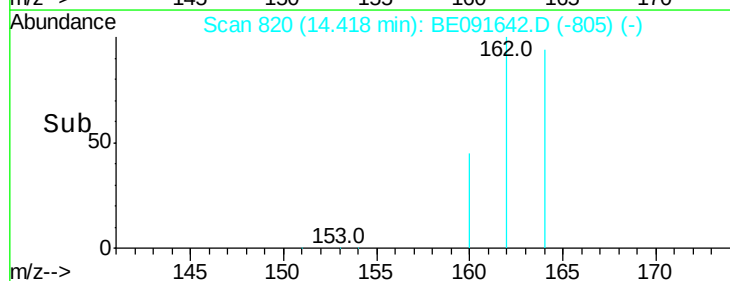
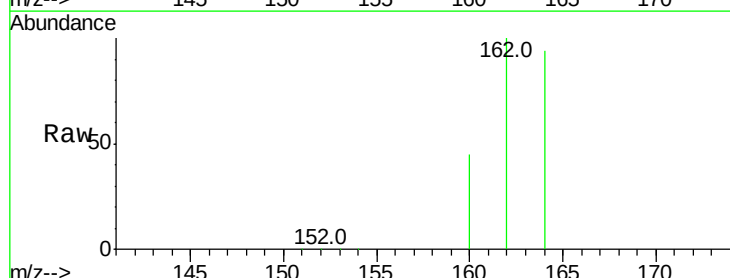
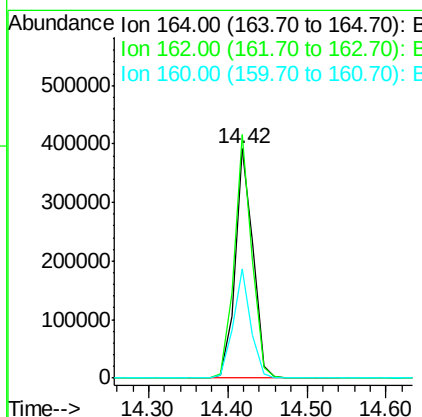
RT: 14.42 min Scan# 820

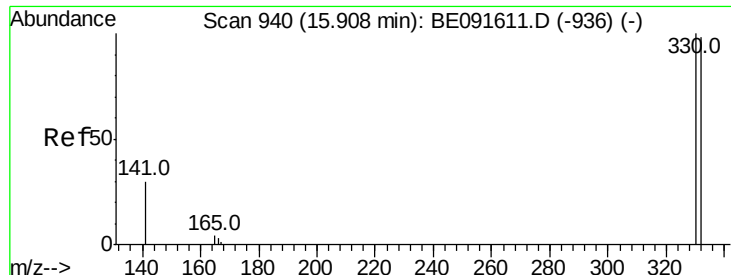
Delta R.T. -0.00 min

Lab File: BE091642.D

Acq: 11 Apr 2016 23:37

| Tgt Ion   | 164   | Resp  | 614477 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 164       | 100   |       |        |
| 162       | 106.1 | 85.3  | 127.9  |
| 160       | 47.7  | 46.2  | 69.2   |





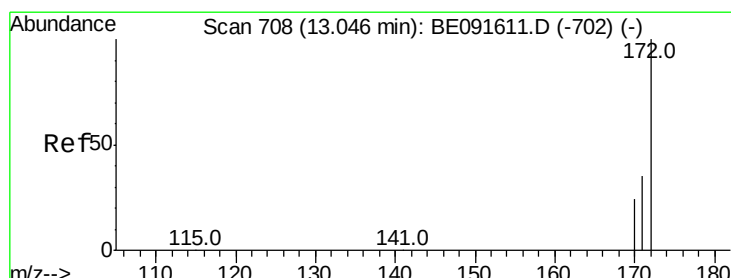
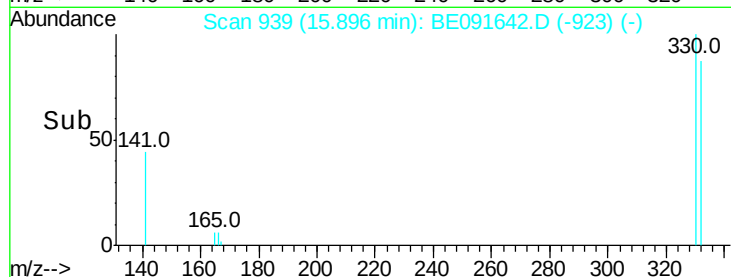
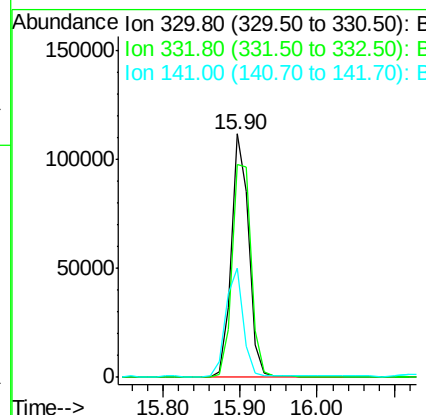
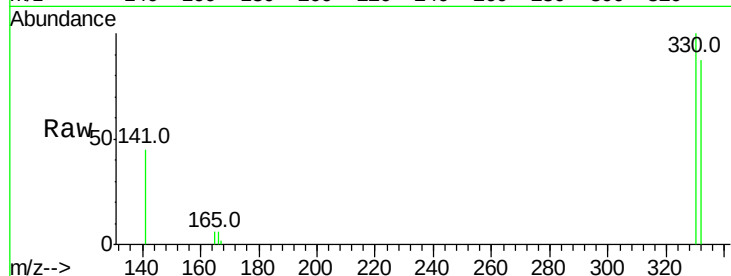
#14  
 2,4,6-Tribromophenol  
 Concen: 8.66 ng  
 RT: 15.90 min Scan# 939  
 Delta R.T. -0.01 min  
 Lab File: BE091642.D  
 Acq: 11 Apr 2016 23:37

Instrument :  
 BNA\_E  
 ClientSampleId :  
 KY038PS027-160330

| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 330     | 100   |       |        |
| 332     | 97.8  | 79.1  | 118.7  |
| 141     | 39.7  | 125.4 | 188.0# |

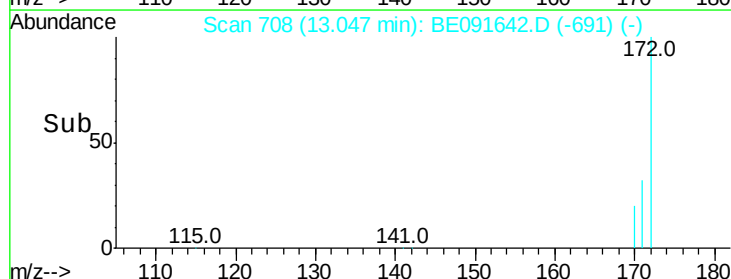
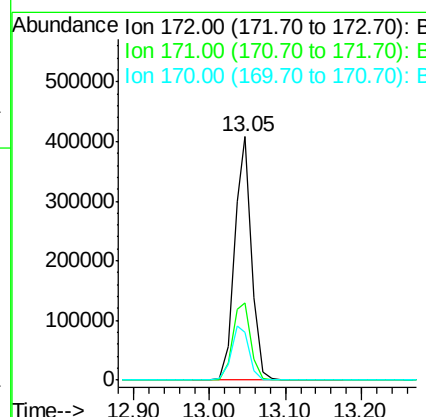
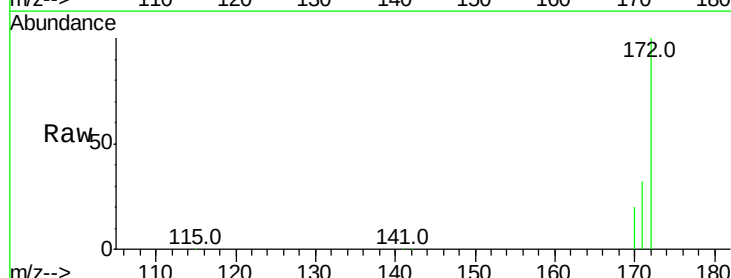
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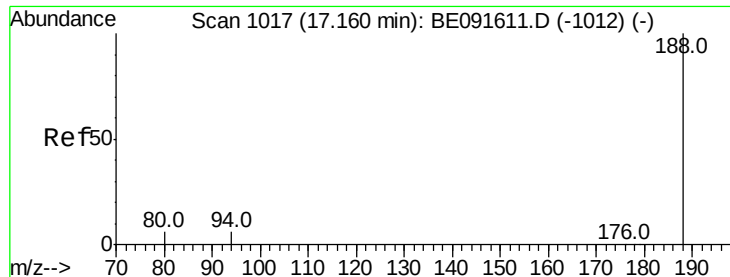
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#15  
 2-Fluorobiphenyl  
 Concen: 3.76 ng  
 RT: 13.05 min Scan# 708  
 Delta R.T. 0.00 min  
 Lab File: BE091642.D  
 Acq: 11 Apr 2016 23:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 31.9  | 28.8  | 43.2  |
| 170     | 19.5  | 19.3  | 28.9  |





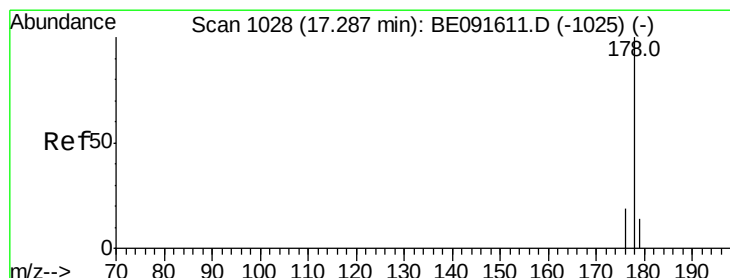
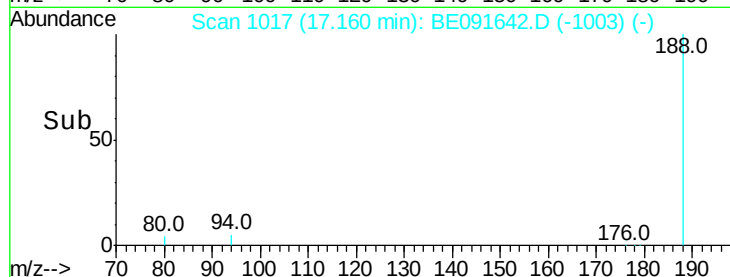
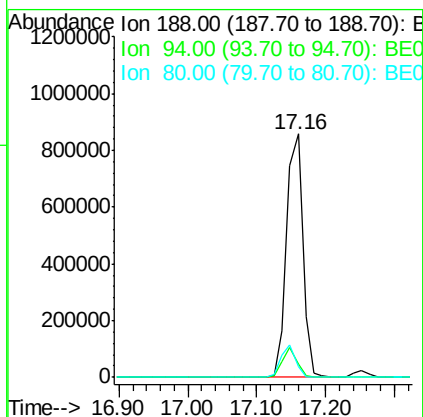
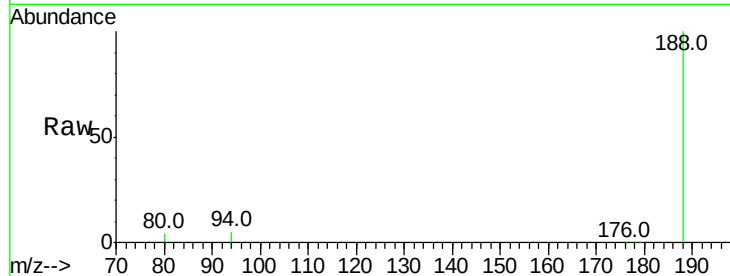
#19  
Phenanthrene-d10  
Concen: 5.00 ng  
RT: 17.16 min Scan# 1017  
Delta R.T. 0.00 min  
Lab File: BE091642.D  
Acq: 11 Apr 2016 23:37

Instrument :  
BNA\_E  
ClientSampleId :  
KY038PS027-160330

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 5.2   | 8.7   | 13.1# |
| 80      | 4.3   | 9.4   | 14.0# |

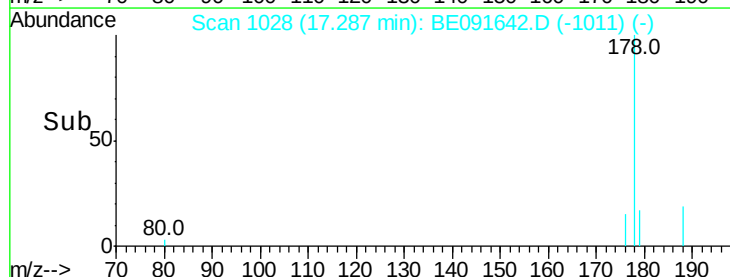
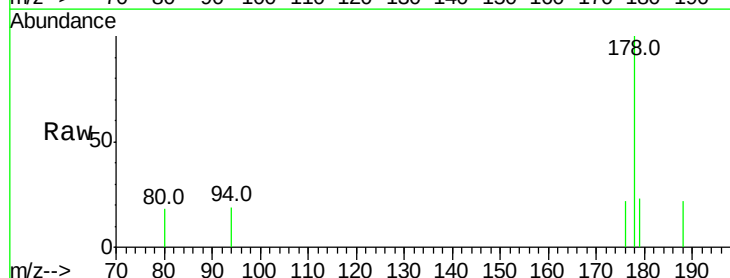
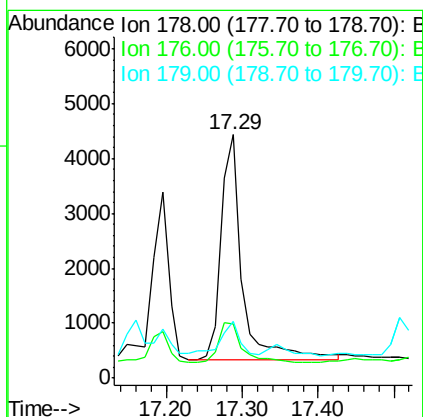
Manual Integrations  
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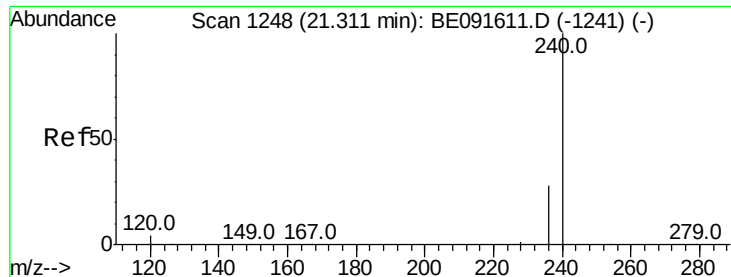
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#24  
Anthracene  
Concen: 0.03 ng  
RT: 17.29 min Scan# 1028  
Delta R.T. 0.00 min  
Lab File: BE091642.D  
Acq: 11 Apr 2016 23:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.0  | 14.6  | 21.8  |
| 179     | 14.3  | 11.8  | 17.6  |





#26

Chrysene-d12

Concen: 5.00 ng

RT: 21.31 min Scan# 1248

Delta R.T. 0.00 min

Lab File: BE091642.D

Acq: 11 Apr 2016 23:37

Instrument :

BNA\_E

ClientSampleId :

KY038PS027-160330

Tot Ion:240 Resp: 1666874

Ion Ratio Lower Upper

240 100

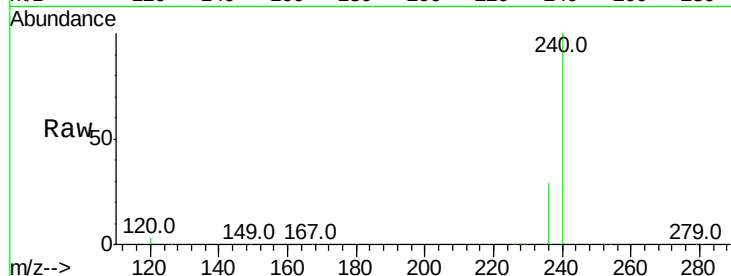
120 3.4 11.0 16.4#

236 29.1 21.7 32.5

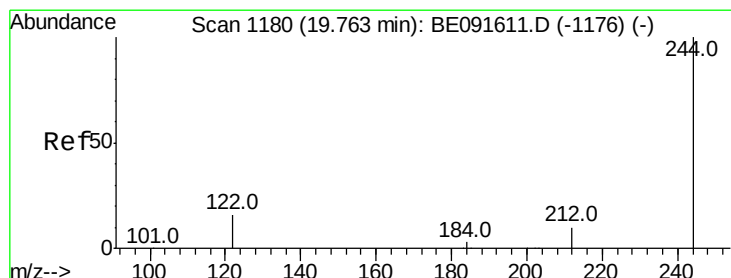
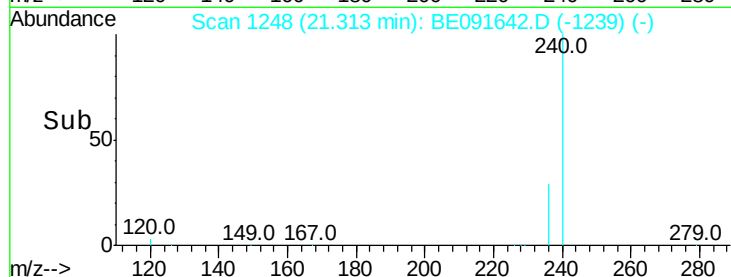
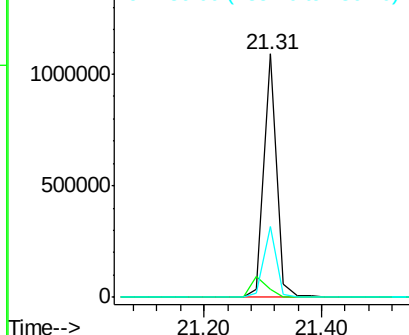
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Abundance Ion 240.00 (239.70 to 240.70): E  
1500000  
Ion 120.00 (119.70 to 120.70): E  
Ion 236.00 (235.70 to 236.70): E



#29

Terphenyl-d14

Concen: 5.38 ng

RT: 19.76 min Scan# 1180

Delta R.T. 0.00 min

Lab File: BE091642.D

Acq: 11 Apr 2016 23:37

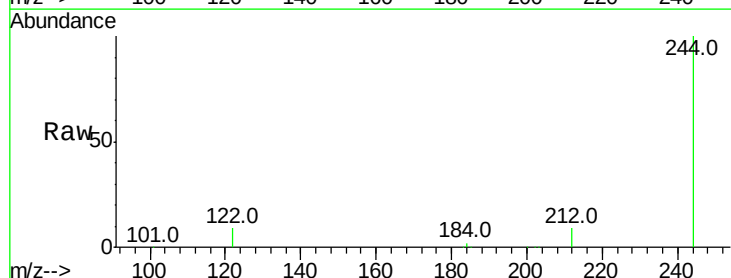
Tgt Ion:244 Resp: 1119531

Ion Ratio Lower Upper

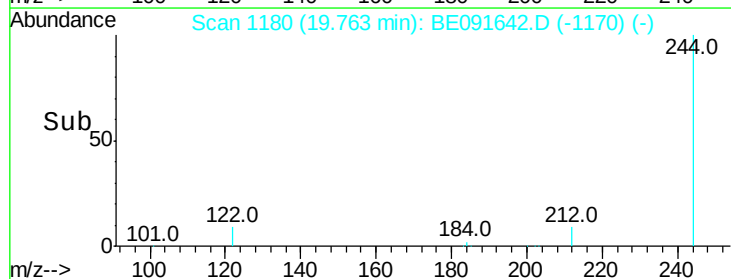
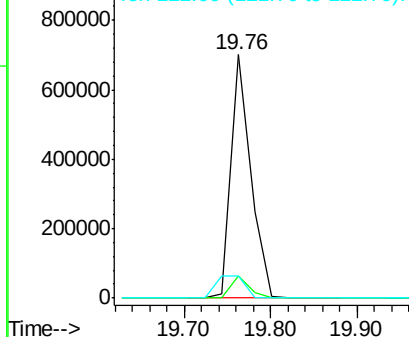
244 100

212 9.3 6.9 10.3

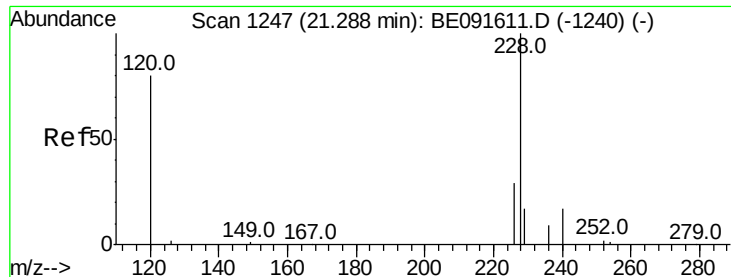
122 9.0 11.0 16.4#



Abundance Ion 244.00 (243.70 to 244.70): E  
800000  
Ion 212.00 (211.70 to 212.70): E  
Ion 122.00 (121.70 to 122.70): E







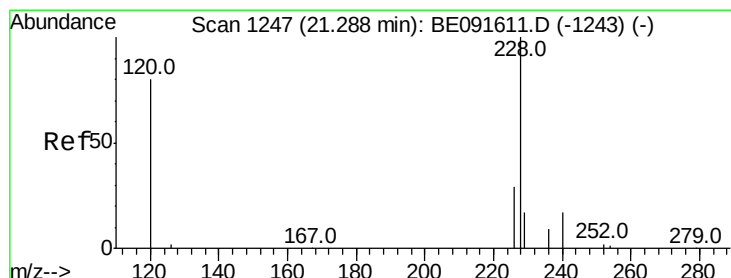
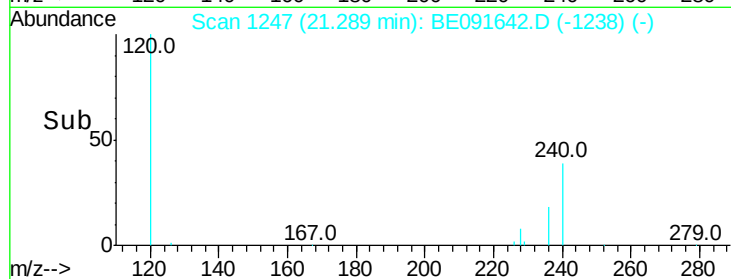
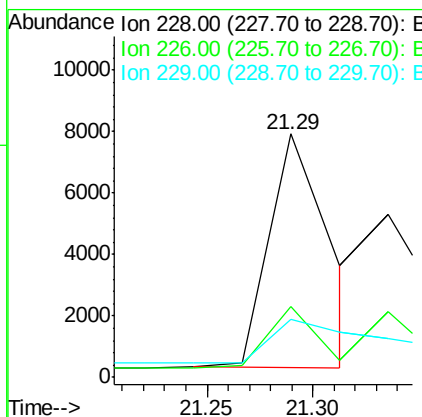
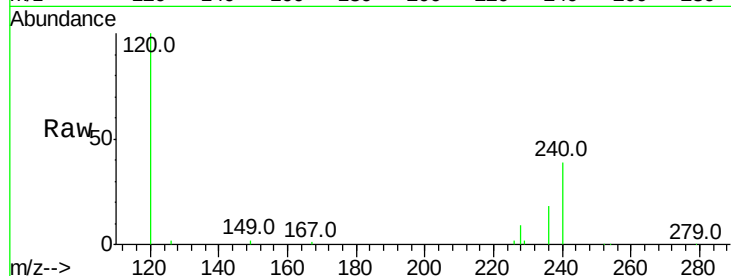
#30  
Benzo(a)anthracene  
Concen: 0.04 ng m  
RT: 21.29 min Scan# 1247  
Delta R.T. 0.00 min  
Lab File: BE091642.D  
Acq: 11 Apr 2016 23:37

Instrument :  
BNA\_E  
ClientSampleId :  
KY038PS027-160330

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.0  | 21.0  | 31.4  |
| 229     | 23.7  | 15.7  | 23.5  |

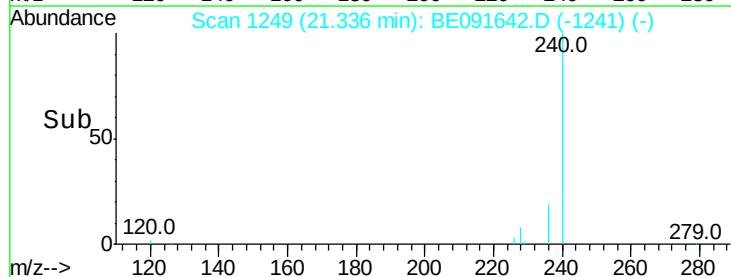
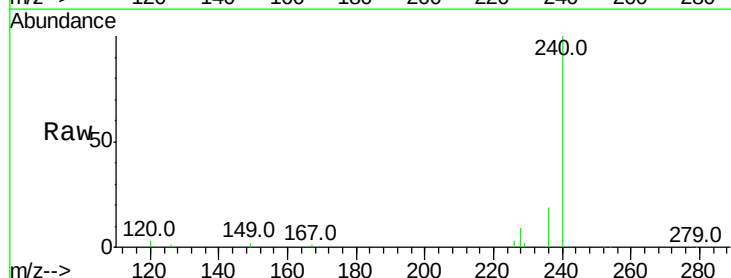
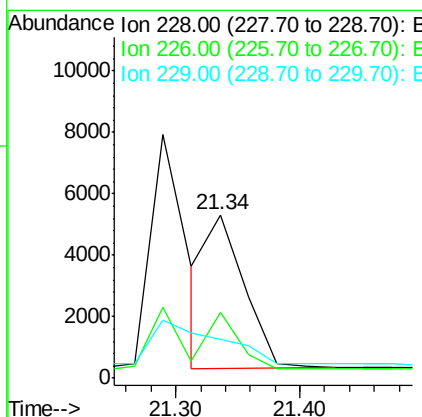
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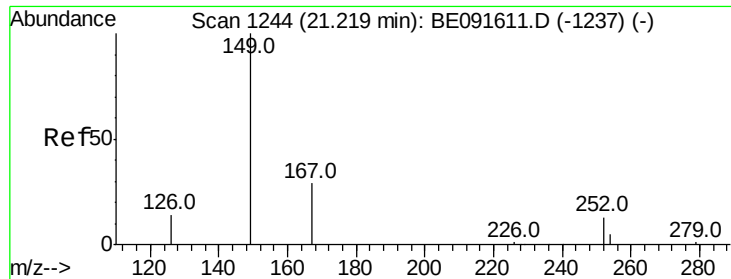
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#32  
Chrysene  
Concen: 0.03 ng m  
RT: 21.34 min Scan# 1249  
Delta R.T. -0.02 min  
Lab File: BE091642.D  
Acq: 11 Apr 2016 23:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 40.1  | 24.0  | 36.0  |
| 229     | 23.4  | 15.9  | 23.9  |





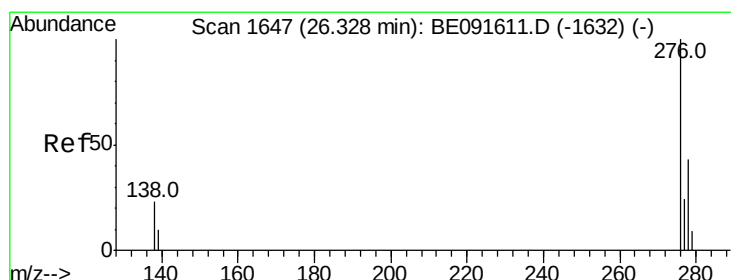
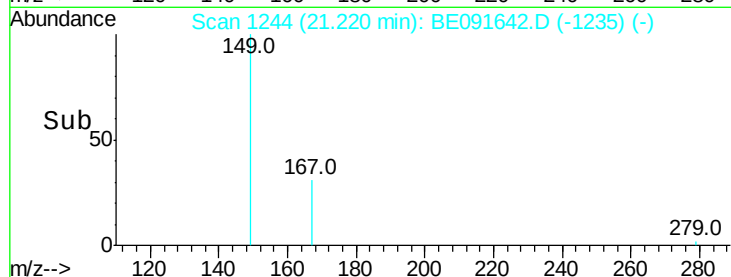
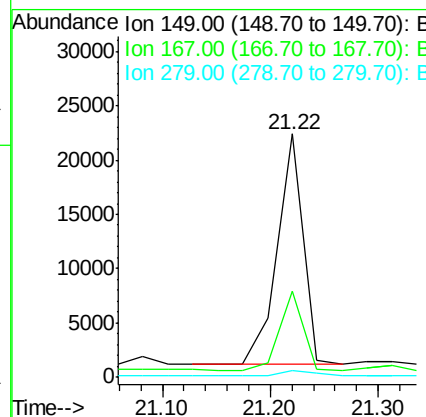
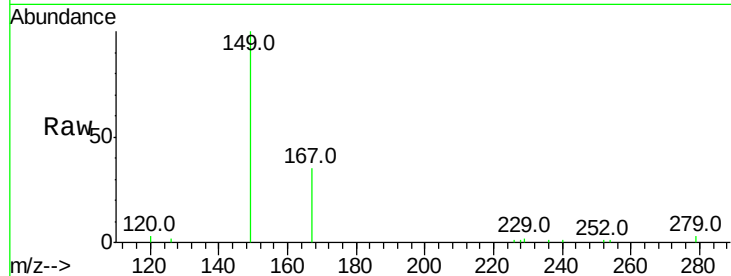
#33  
 Bis(2-ethylhexyl)phthalate  
 Concen: 0.39 ng  
 RT: 21.22 min Scan# 1244  
 Delta R.T. 0.00 min  
 Lab File: BE091642.D  
 Acq: 11 Apr 2016 23:37

Instrument :  
 BNA\_E  
 ClientSampleId :  
 KY038PS027-160330

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 31.0  | 19.5  | 29.3# |
| 279     | 3.1   | 10.0  | 15.0# |

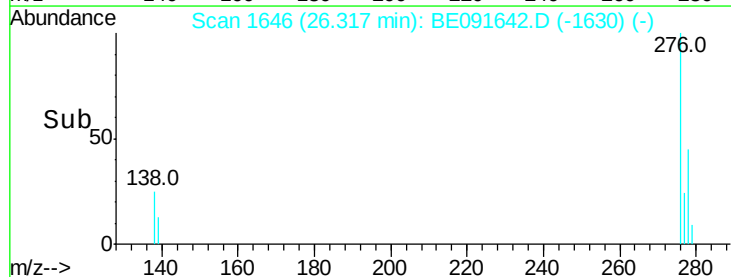
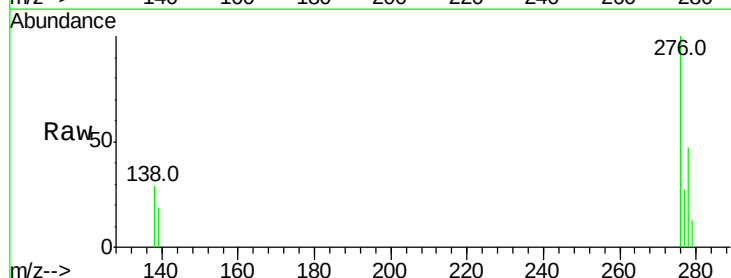
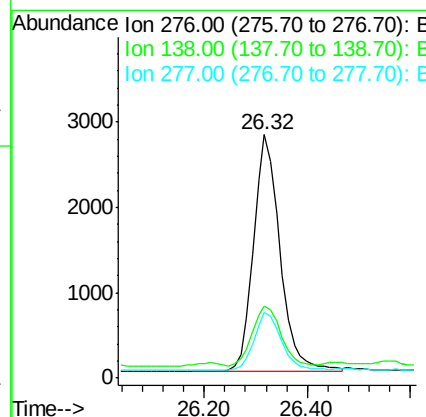
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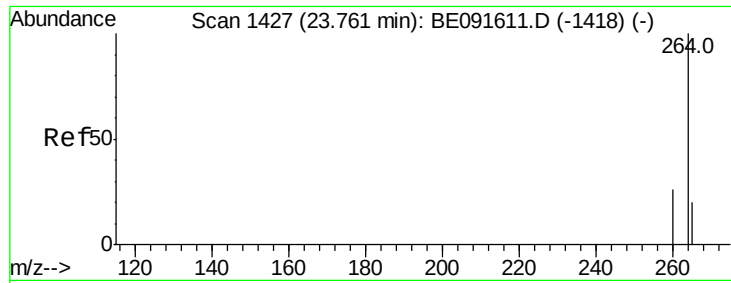
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#34  
 Indeno(1,2,3-cd)pyrene  
 Concen: 0.03 ng  
 RT: 26.32 min Scan# 1646  
 Delta R.T. -0.01 min  
 Lab File: BE091642.D  
 Acq: 11 Apr 2016 23:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 26.6  | 23.4  | 35.2  |
| 277     | 25.4  | 19.8  | 29.8  |





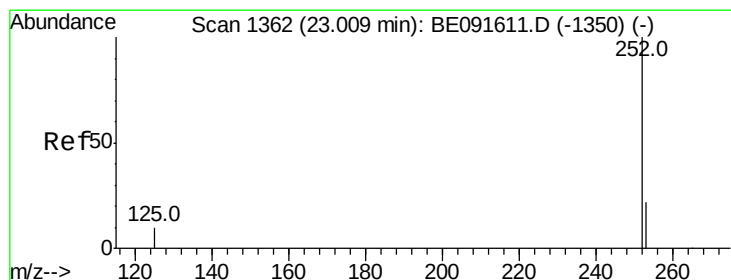
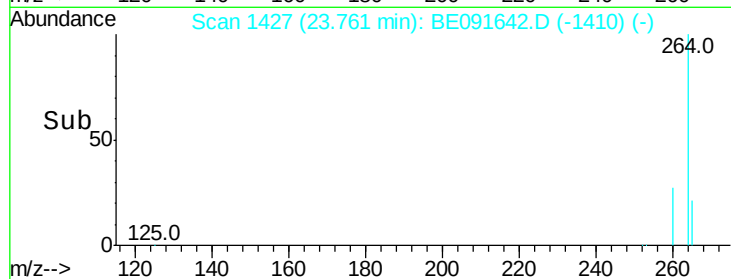
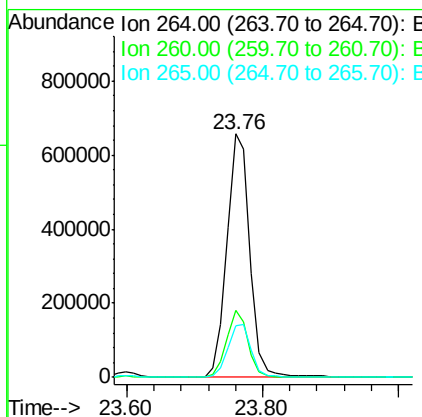
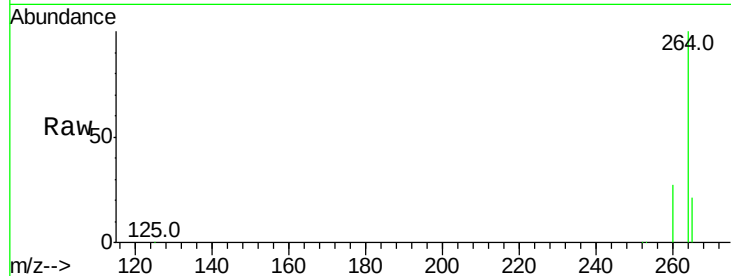
#35  
 Pervlene-d12  
 Concen: 5.00 ng  
 RT: 23.76 min Scan# 1427  
 Delta R.T. 0.00 min  
 Lab File: BE091642.D  
 Acq: 11 Apr 2016 23:37

Instrument :  
 BNA\_E  
 ClientSampleId :  
 KY038PS027-160330

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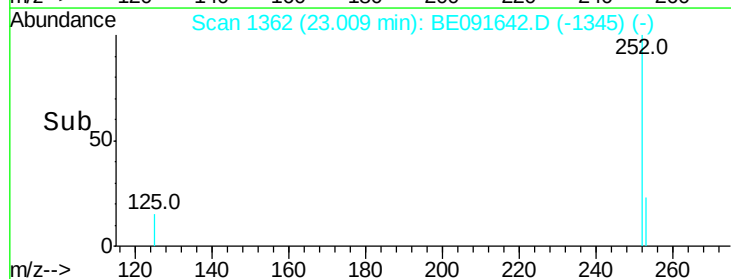
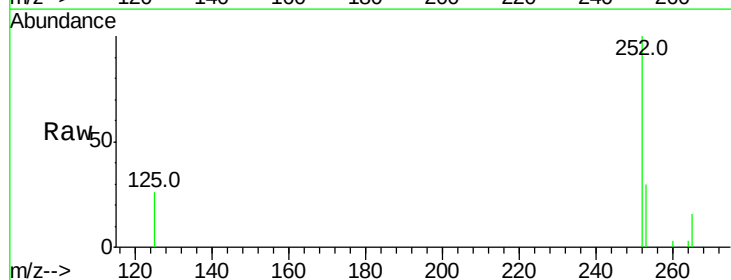
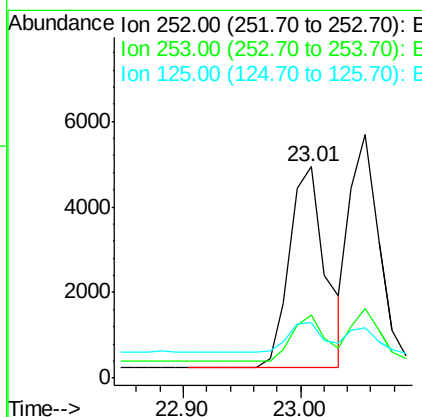
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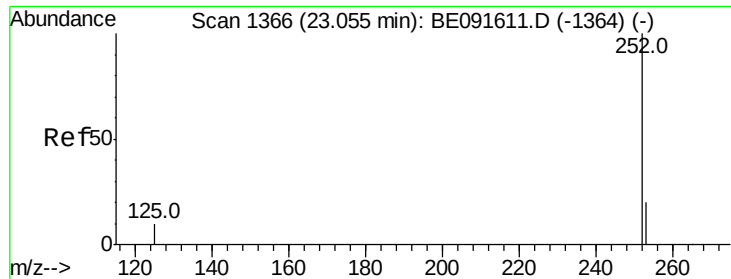
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 27.4  | 20.0  | 30.0  |
| 265     | 21.3  | 17.5  | 26.3  |



#36  
 Benzo(b)fluoranthene  
 Concen: 0.03 ng  
 RT: 23.01 min Scan# 1362  
 Delta R.T. 0.00 min  
 Lab File: BE091642.D  
 Acq: 11 Apr 2016 23:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 29.8  | 17.4  | 26.0# |
| 125     | 26.3  | 10.2  | 15.2# |





#37

Benzo(k)fluoranthene

Concen: 0.03 ng

RT: 23.06 min Scan# 1366

Delta R.T. 0.00 min

Lab File: BE091642.D

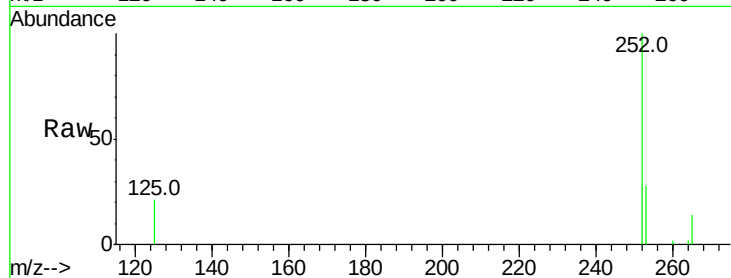
Acq: 11 Apr 2016 23:37

Instrument :

BNA\_E

ClientSampleId :

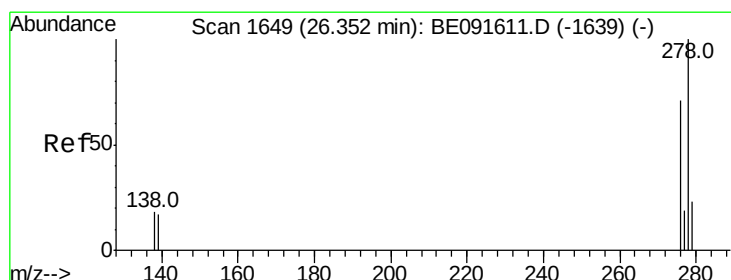
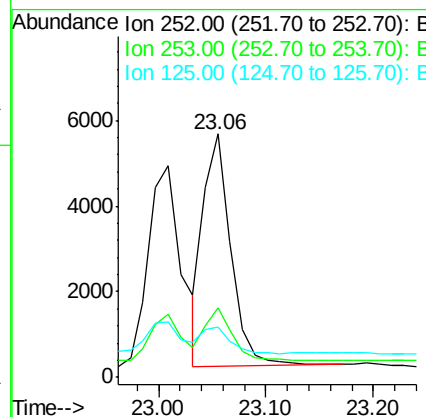
KY038PS027-160330



|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 9635  |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 28.3  | 17.6  | 26.4# |
| 125       | 20.9  | 9.9   | 14.9# |

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#39

Dibenzo(a,h)anthracene

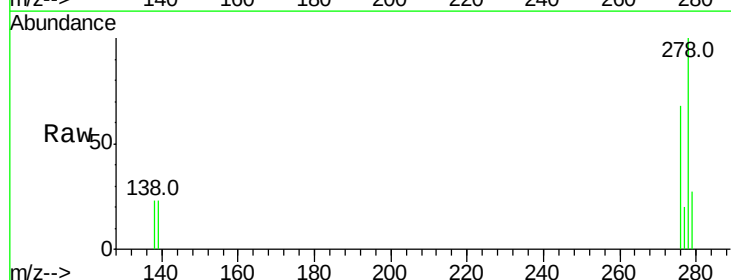
Concen: 0.03 ng

RT: 26.34 min Scan# 1648

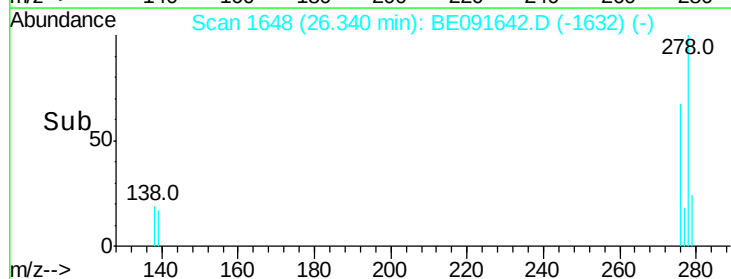
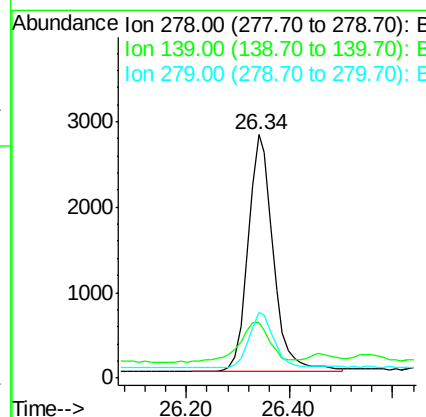
Delta R.T. -0.01 min

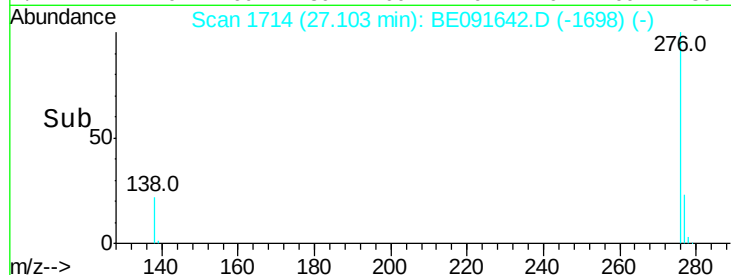
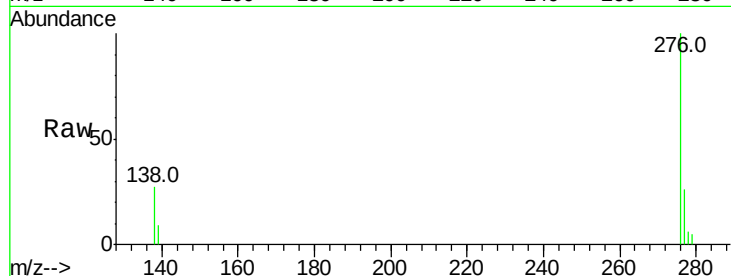
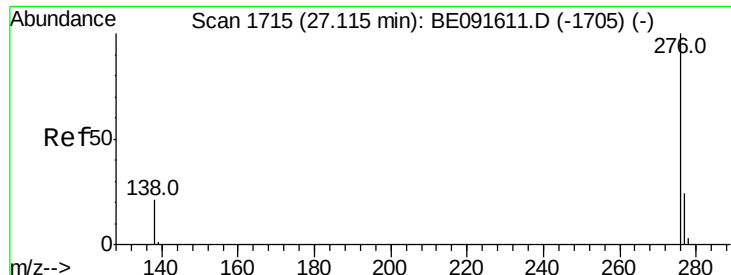
Lab File: BE091642.D

Acq: 11 Apr 2016 23:37



|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 278   | Resp: | 9358 |
| Ion Ratio | Lower | Upper |      |
| 278       | 100   |       |      |
| 139       | 22.9  | 16.0  | 24.0 |
| 279       | 27.1  | 19.4  | 29.2 |





#40  
 Benzo(a,h,i)perylene  
 Concen: 0.03 ng  
 RT: 27.10 min Scan# 1714  
 Delta R.T. -0.01 min  
 Lab File: BE091642.D  
 Acq: 11 Apr 2016 23:37

Instrument :  
 BNA\_E  
 ClientSampleId :  
 KY038PS027-160330

|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 276   | Resp: | 8931 |
| Ion Ratio | Lower | Upper |      |
| 276       | 100   |       |      |
| 277       | 25.6  | 18.6  | 28.0 |
| 138       | 26.9  | 20.4  | 30.6 |

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