

# P10

## “BULK analysis of trace elements in pure Au and Ag by Profiler HR”



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The Moscow Mint represents results of the first year of Spectrometer GD-Profilier HR.

After installation Profiler has been used for routine BULK analysis of trace elements in pure metals - gold and silver by method 100% – SUM imp

You can see results on poster

Calibration was done with certified standard samples produced and certified by Ekaterinburg non-ferrous metals processing plant

Results is confirmed by ICP-OE and Spark-OE parallel analysis

Method features:

big power; fast pollution of lamp, primary lens and anode gap

Now Moscow Mint starts to use Profiler HR  
for the surface analysis.

- Analysis of protective ceramic coatings on coins
- Analysis of stamps
- Analysis of chemical pollutions on coins
- Research of coin surface defects