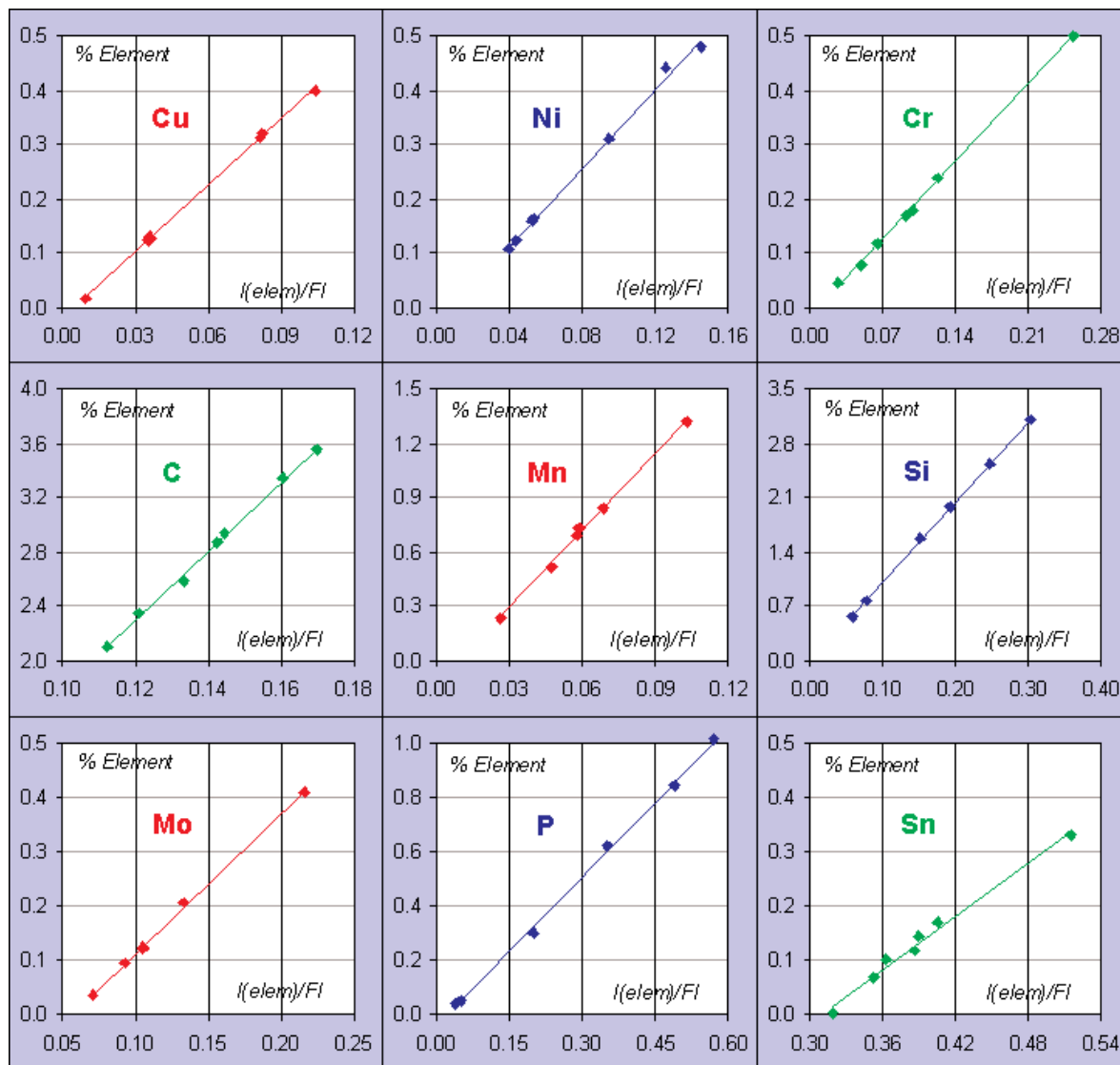


Bulk analysis: example of cast iron

As RF glow discharge is a very stable emission source, it can be used to achieve accurate bulk analysis. Here is an example concerning cast iron analysis. 9 elements are analysed with F.I. (incident beam) as internal standard. Source operating conditions: power 40 W, pressure 9 mbar, pre-integration time: 20 sec, integration time: 10 sec.

The calibration curves (concentration % vs ratio intensities) are obtained from a series of 7 standards. For every element, each point is computed from 3 measurements done on 2 different places of each standard (namely 6 measurements per point). In all cases, the RSD is near by 0.5 %.



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