To the Guest Editors and Anonymous Reviewers

of the special issue of ACTA IMEKO.

Manuscript title

*Utilizing arbitrary waveform generators to produce noise with imposed spectral characteristics*

Authors:

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This is the updated and extended version of the paper “Programmable power spectral density noise source” by L. Angrisani, M. D’Arco, E. Napoli, presented in the XIX IMEKO TC-4 Symposium in Barcelona, and recommended by the TC4 Board for publication in the Special Issue of ACTA IMEKO.

In particular, the manuscript now includes the contributions of two other authors: Proff. M. D’Apuzzo and A. Strollo.

The original title has been changed in ‘Utilizing arbitrary waveform generators to produce noise with imposed spectral characteristics’.

The Section Introduction has been fully rewritten, and several items related to the typical applications of noise sources, noise metrics, and noise models, have been inserted in this Section.

The notation adopted to illustrate the proposed approach has been partially changed in order to make clearer the presentation of the ideas.

New experiments have been performed and the obtained results have been reported and commented: the manuscript now includes 10 Figures, i.e. 8 more than the paper discussed at the Symposium.

Finally, the paper presented at the Symposium held in Barcelona has been included in the references (ref. [19]) together with other three papers (ref. [24]-[27]).