Radio Impulsive Noise Measurements

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Abstract:

This study describes a procedure for measuring and evaluating radio impulsive noise from a specific source. A good knowledge of the noise caused by different sources is essential to plan radio services and to ensure a fair quality of service.
Moreover, it is necessary to harmonize the noise measurement methods in order to achieve results that can be mutually compared. This paper not only provides the steps that should be followed to make proper measurements, but also specifies the appropriate parameters to characterize the impulsive noise when it is generated by a principal source. As an example, some results of impulsive noise measurements in an indoor environment in the Med ium Wave band are presented.
This work gives answer to the request made in ITU-R 214- 4/3 question, which considers that it is essential to determine impulsive noise parameters and asks to obtain reference values.