Total isotropic sensitivity (TIS) and Throughput Measurements For MIMO-LTE Terminals in Reverberant Cell

Author(s) - Institution(s):
Nabil, Arsalane, XLIM-OSA
Moctar, Mouhamadou, XLIM-OSA
Cyril, Decroze, XLIM-OSA
David, Carsenat, XLIM-OSA
Stephanie, Liebus, XLIM-OSA

Corresponding author email: nabil.arsalane@xlim.fr

Corresponding WG group: TWGO

Abstract:

Real time Over The Air (OTA) measurement test bed for evaluating wireless communication terminals performance is investigated. This measurement test bed has been associated along with a channel emulation platform. It consists of assessing the throughput and the total isotropic sensitivity (TIS) level of the 4G MIMO-LTE terminals by establishing a real communication between the base station (R&S CMW500) and the user equipment (mobile terminals). The performances evaluation is performed for different emulated channel models in reverberation chamber. T his emulation must be accompanied by a strict control of delay spread. The obtained TIS results were compared to the results obtained in anechoic chamber.