

## Kongres Container

# What are the EMSs for 5G communication base stations in Turkmenistan



## Overview

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What are 5G UE and BS measurements?

This page provides an overview of 5G measurements performed on User Equipment (UE) and Base Stations (BS) or Nodes B (NB). It details both 5G UE measurements and 5G BS measurements. The 5G measurements encompass both transmitter and receiver test scenarios. Introduction: The following tests are generally performed during 5G measurements:.

Does 5G signal exposure affect base station compliance?

This agrees with measurements done in other countries whose authors conclude that the exposure to 5G signals is limited , , , but this does not assure the base station compliance as full load situation should be considered for such assessment. It also shows that the increase in the EMF field is due to the induced data traffic.

What tests are performed during 5G measurements?

Introduction: The following tests are generally performed during 5G measurements: Figure 1: Equipments available from Keysight Technologies for 5G measurements. References: Explore 5G measurements for User Equipment (UE) and Base Stations (BS), covering transmitter and receiver test scenarios, conformance, and network stability.

Can SSB be used for 5G NR?

Before performing the power measurement of the SSB, its center frequency must be determined. According to 5G NR standard , its exact frequency location may vary from one base station to other. Fortunately, the SA can also be used for this scanning purpose.

Why is a 5G network a challenge?

5G networks deployment poses new challenges when evaluating human exposure to electromagnetic fields. Fast variation of the user load and

beamforming techniques may cause large fluctuations of 5G base stations field level. They may be underestimated, resulting in compliance of base stations not fitting the requirements.

Can broadband field probes be used for 5G exposure assessment?

The use of broadband field probes for 5G exposure assessment is still possible under certain considerations and correcting the results considering the base station load and beamforming effects. 5G networks deployment poses new challenges when evaluating human exposure to electromagnetic fields.

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