

# Communication Base Station EMS Evaluation



LIQUID/AIR COOLING

ON GRID/HYBRID

PROTECTION IP54/IP55

BATTERY /6000 CYCLES

## Overview

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Can broadband equipment be used to measure EMF field level?

Thus, broadband equipment can still be used for assessing the EMF field level when measurements are done by forcing an extra load of the station, as it uses to overestimate the field levels. The largest differences in the values measured by the different methods happen at location 7, and especially at location 4.

Can a broadband sounder evaluate human exposure to EMF?

An example of estimation of uncertainty in the process of evaluating human exposure to EMF using a broadband sounder is presented in . However, this research was made before the 5G deployment, and most of the specific characteristics of 5G New Radio schemes are not still considered. 5.2. Broadband field meter results.

What are EMF field values at each location in V/M?

EMF field values at each location in V/m (worst-case of exposure). Fig. 13. E-field extrapolated measurement results from the different methodologies. As happened with the broadband instrument measurements, those performed with the SA and DTS are well below reference level, which is 61 V/m .

How long should a broadband probe be able to measure EMF levels?

As stated in the safety recommendation of the ICNIRP , the measurement of the EMF level with a broadband probe should be 6 min long, at a sampling rate of 1 sample/s, to get an accurate estimate of the exposure. However, it is unlikely that the base station would radiate at its maximum power during this period, which is a source of uncertainty.

How to measure EMF levels?

When talking about measuring EMF levels, field strength meters with broadband probes have been the equipment most widely used. They allow to

measure the total field value of all signals within the frequency range of the probe without any frequency-related information , .

Which equipment is used to measure EMF levels?

This analysis should consider both the measurement equipment limitations and other sources as the applied postprocessing, the mechanical constraints and the own definition of the physical parameters . When talking about measuring EMF levels, field strength meters with broadband probes have been the equipment most widely used.

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