



RF Exposure

The purpose of the letter: Environmental evaluation and exposure limit according to FCC CFR 47 part 1, §1.1307, §1.1310.

Belongs to the Test report No: 9312320320
Broadband Wireless Access UTRA FDD Base Station
Model: RADWIN-6000
FCC ID: Q3KRW6000-B5

Power density limit in 869- 894 MHz frequency band for general population/uncontrolled exposure is 0.6 (mW/cm²) or 6 (W/m²).

The power density calculation $S = [Pt / (4\pi r 0.6)^2]$.

Where:

Pt - The transmitted power (EIRP) (mW)

r - The distance from the unit. (cm)

The 0.6 (mW/cm²) limit can be calculated from the above based on the following data:

Pt- the transmitted power which calculated for antenna 15 dBi gain is equal to the maximum EIRP = 51.8 dBm = 151356 mW.

Minimum allowed distance r from the antenna main lobe were RF exposure limit may not be exceeded = $\text{SQRT}(151356/4\pi 0.6) > 1.42 \text{ m}$.

Pt- the transmitted power which calculated for antenna 11 dBi is equal to the maximum EIRP = 47.8 dBm = 60256 mW.

Minimum allowed distance r from the antenna main lobe were RF exposure limit may not be exceeded = $\text{SQRT}(60256/(4\pi 0.6)) > 0.9 \text{ m}$.