Environmental evaluation and exposure limit according to FCC CFR 47part 1, §1.1307, §1.1310

Limit for power density for general population/uncontrolled exposure is 1 mW/cm² for 1500 -100000 MHz frequency range:

The power density **P** (mW/cm²) = $P_T / 4\pi r^2$, where

P_T is the maximum equivalent isotropically radiated power (EIRP).

To confirm compliance with a safe distance for base station fixed unit the following calculation was done:

The peak output power of 26.3 dBm with 16 dBi antenna gain corresponds to the equivalent isotropically radiated power (EIRP) of

26.3 dBm + 16 dBi = 42.3 dBm, which is equal to 16982 mW.

The minimum safe distance "r", where RF exposure does not exceed FCC permissible limit, is

r = sqrt { P⊤ / (Px4π)} = sqrt {16982 / 12.56} ≈ 37 cm << 2 m .

General public cannot be exposed to dangerous RF level.