

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

The calculation was done to confirm required safe distance for mobile device.

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) with the tune up tolerance, measured value is 31.83 dBm which is equal to 1524 mW.

The power density at 20 cm (minimum safe distance, required for mobile devices), calculated as follows:
 $1524 \text{ mW} / 4\pi (20 \text{ cm})^2 = 0.303 \text{ mW/cm}^2 \ll 1 \text{ mW/cm}^2$

The minimum safe distance “r” for general population/uncontrolled exposure, where RF exposure does not exceed FCC permissible limit, is

$$r = \sqrt{P_T / (P \times 4\pi)} = \sqrt{1524 / 12.56} = 11.02 \text{ cm.}$$

The information note about safe distance shall be provided in the User Manual.