

**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 fixed device.

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

Limit for power density for occupational exposure is 5 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), measured value is 39.20 dBm. which is equal to 8318 mW.

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

$$r = \sqrt{P_T / (4\pi \cdot 12.56)} = \sqrt{8318 / 12.56} = 25.73 \text{ cm.}$$

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

$$r = \sqrt{P_T / (4\pi \cdot 5)} = \sqrt{11721 / 5 \times 12.56} = 11.51 \text{ cm.}$$

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