

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

The calculation was done for required safe distance.

Limit for power density for general population/uncontrolled exposure is 1 mW/cm<sup>2</sup> for 1500 -100000 MHz frequency range:

The power density **P (mW/cm<sup>2</sup>) = P<sub>T</sub> / 4π r<sup>2</sup>**, where

P<sub>T</sub> is the maximum equivalent isotropically radiated power (EIRP).

The peak output power of 26.4 dBm with 14.5 dBi antenna gain corresponds to the equivalent isotropically radiated power (EIRP) of

$$26.4 \text{ dBm} + 14.5 \text{ dBi} = 40.9 \text{ dBm}, \text{ which is equal to } 12308 \text{ mW}.$$

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

$$r = \sqrt{P_T / (P \times 4\pi)} = \sqrt{12308 / 12.56} = 31 \text{ cm}$$

The warning in User Manual about transmitter installation at minimum safe distance from all persons is required.