

Exposure limit according to §15.247(i)

The device is classified as mobile.

Limit for power density for general population/uncontrolled exposure is 1 mW/cm^2 for 1500 -100000 MHz frequency range.

The power density $P \text{ (mW/cm}^2\text{)} = P_T / 4\pi r^2$

P_T is the transmitted power, which is equal to the peak transmitter output power 19.1 dBm plus maximum antenna gain -2 dBi, the maximum equivalent isotropically radiated power EIRP is

$$P_T = 19.1 \text{ dBm} - 2 \text{ dBi} = 17.1 \text{ dBm} = 51.3 \text{ mW}.$$

The power density at 20 cm (minimum safe distance, required for mobile devices), calculated as follows:

$$51.3 \text{ mW} / 4\pi (20 \text{ cm})^2 = 0.1 \text{ mW/cm}^2$$

General public cannot be exposed to dangerous RF level.