

Exposure limit according to §15.247(e)(i) and §1.1307

The device is classified as mobile.

Limit for power density for general population/uncontrolled exposure is $f/1500$ mW/cm² for 300 – 1500 MHz frequency range:

$$P = 916/1500 = 0.61 \text{ mW/cm}^2$$

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

P_T is the transmitted power, which is equal to the peak transmitter output power 9.0 dBm plus maximum antenna gain 4 dBi, the maximum equivalent isotropically radiated power EIRP is

$$P_T = 9.0 \text{ dBm} + 4 \text{ dBi} = 13.0 \text{ dBm} = 20 \text{ mW}.$$

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

$$20 \text{ mW} / 4\pi (20 \text{ cm})^2 = 0.004 \text{ mW/cm}^2 \ll 0.61 \text{ mW/cm}^2$$

General public cannot be exposed to dangerous RF level.