

**Exposure limit according to §15.247(i)**

The device is classified as mobile.

Limit for power density for general population/uncontrolled exposure is  $f/1500$  mW/cm<sup>2</sup> for 300 – 1500 MHz frequency range:

$$P = 902/1500 = 0.6 \text{ mW/cm}^2$$

The power density **P (mW/cm<sup>2</sup>)** =  $P_T / 4\pi r^2$

$P_T$  is the transmitted power, which is equal to the peak transmitter output power 18.24 dBm plus maximum antenna gain 2 dBi, the maximum equivalent isotropically radiated power EIRP is

$$P_T = 18.24 \text{ dBm} + 2 \text{ dBi} = 20.24 \text{ dBm} = 105.68 \text{ mW}.$$

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

$$105.68 \text{ mW} / 4\pi (20 \text{ cm})^2 \approx 0.021 \text{ mW/cm}^2 < 0.6 \text{ mW/cm}^2$$

General public cannot be exposed to dangerous RF level.