## Exposure limit according to §15.247(i)

The transceiver is classified as mobile.

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  $P(mW/cm^2) = P_T / 4\pi r^2$ , where

 $P_{\mathsf{T}}$  is the transmitted power, which is equal to the peak transmitter output power plus maximum antenna gain. The maximum equivalent isotropically radiated power EIRP is

$$P_T = 14.55 \text{ dBm} + 3 \text{ dBi} = 17.55 \text{ dBm} = 56.9 \text{ mW}$$
, where

14.55 dBm is the EUT maximum output power, 3 dBi – antenna gain.

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

$$56.9 \text{ mW} / 4\pi (20 \text{ cm})^2 = 0.011 \text{ mW/cm}^2 << 1 \text{ mW/cm}^2$$

General public cannot be exposed to dangerous RF level.