## FCC ID: H38UEM-8T

## 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 f/1500 mW/cm<sup>2</sup> for 300 -1500 MHz frequency range:

For operating frequency range 535 - 546 MHz, the limit for power density is (535/1500) mW/cm<sup>2</sup>.

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

**P (535/1500) = 0.357** mW/cm<sup>2</sup> for operating frequency range 535 - 546 MHz;

PT is the maximum equivalent isotropically radiated power (EIRP).

The peak output power of 16.213 dBm (ERP),

The equivalent isotropically radiated power (EIRP) = Power(ERP)+ 2.15 dB = 16.213 dBm +2.15 dB= 18.363 dBm (EIRP) = 68.6 mW (EIRP)

The minimum safe distance "r", where RF exposure does not exceed FCC permissible limit, is  $r = sqrt \{ PT / (Px4\Pi) \} = sqrt \{ 68.6 / (0.357x4\Pi) \} = 3.91 \text{ cm}.$