Airspan Networks Inc. FCC ID:PIDMMAX25

## Environmental evaluation and exposure limit according to FCC CFR 47part 1, §1.1307, §1.1310

The transceiver is classified as fixed, the calculation was done to confirm a safe distance.

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<sup>2</sup>) = P<sub>T</sub> /  $4\pi$  r<sup>2</sup>, where

P<sub>T</sub> 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

 $P_T$  = 28.46 dBm +17 dBi = 45.46 dBm = 35156 mW, where

28.46 dBm is the EUT maximum output power,

17 dBi – antenna gain.

The minimum safe distance "r", where RF exposure does not exceed FCC permissible limit, is

$$r = sqrt \{ PT / (Px4\pi) \} = sqrt \{ 35156 / 12.56 \} = 53 cm << 2 m.$$

General public cannot be exposed to dangerous RF level.