Airspan Networks Inc. FCC ID:PIDAHR2500

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 $\,\mathrm{mW/cm^2}$ for 1500 -100000 MHz frequency range.

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

P_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

$$P_T = 39.86 \text{ dBm} + 18 \text{ dBi} = 57.86 \text{ dBm} = 610942 \text{ mW}$$
, where

39.86 dBm is the EUT maximum output power, 18 dBi – antenna gain.

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

$$r = sqrt \{ PT / (Px4\pi) \} = sqrt \{ 610942 / 12.56 \} = 220.6 cm$$

A warning about a safe distance is contained in the user manual.