Alvarion Ltd. FCC ID:LKT-EXTR-36

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 1 mW/cm² for 1500 -100000 MHz frequency range:

The power density P (mW/cm²) = P_T / 4π r², where

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

The peak output power of 28.68 dBm with 16.5 dBi antenna gain corresponds to the equivalent isotropically radiated power (EIRP) of

28.68 dBm + 16.5 dBi = 45.18 dBm, which is equal to 32961 mW.

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

 $r = sqrt \{ PT / (Px4\pi) \} = sqrt \{ 32961 / 12.56 \} = 51.2 cm << 2 m$.