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

Limit for power density for general population/uncontrolled exposure is 0.21 mW/cm^2.

The power density $P\ (mW/cm^2) = \frac{P_T}{4\pi r^2}$, where

P_T is the maximum equivalent isotropically radiated power (EIRP).
In our case P_T is –19.64 dBm = 0.01 mW.

$$0.21(mW/cm^2) = 0.01\ mW / 4\pi r^2$$

The minimum safe distance "r", where RF exposure does not exceed FCC permissible limit, is 0.06 cm.

$$r = sqrt(P_T / (Px4\pi)) = sqrt(0.01 / (0.21 \times 4 \times 3.14)) = 0.06\ (cm).$$

Hence, no safety hazard exists for human being.