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 check a safe distance.

Limit for power density for general population/uncontrolled exposure is 1 mW/cm² for 1500 -100000 MHz frequency range.

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

$$P_T = 33.0 \text{ dBm} + 17.0 \text{ dBi} = 50.0 \text{ dBm} = 100000 \text{ mW}$$
, where

33.0 dBm is the EUT maximum output power (per port), 17.0 dBi – antenna gain.

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

$$r = sqrt \{ PT / (Px4\pi) \} = sqrt \{ 100000 / 12.56 \} = 89.22 \approx 90 cm.$$

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