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

The calculation was completed to confirm the required safe distance for fixed device.

Based on the calculated r in 2) below, General public cannot be exposed to harmful RF level in the case of a fixed device is located at least 2 m safe distance from the persons.

Limit for Maximum Permissible Exposure (MPE) to radiofrequency electromagnetic fields for general population/uncontrolled exposure is 1.0 mW/cm^2 (**P**) for 1,500 - 100,000 MHz frequency range:

The power density **P (mW/cm^2) = PT / 4πr^2**, where PT is the maximum equivalent isotropically radiated power (EIRP).

1) In the transmit mode of 2 carriers with all 4 ports in transmission, the peak output power of 35.83 dBm with 9 dBi total antenna gain (please refer to Test A.1/A.2 of the test report 2477ERM.001)

    PT = 35.83 dBm + 9.00 dBi = 44.83 dBm, which is equal to 30,409 mW

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

    r = sqrt {PT / (Px4π)} = sqrt {30,409 / 12.56} = 49.2 cm