RF Exposure letter

The purpose of the letter: Environmental evaluation and exposure limit according to FCC CFR 47 part 1, §1.1307, §1.1310.

Belongs to the Test report No: 9312320318
Broadband Wireless Access UTRA FDD Base Station
Model: RADWIN-6000
FCC ID: Q3KRW6000-B2

Limit for power density for general population/uncontrolled exposure is 1(mW/cm^2) or 10 (W/m^2).

The power density calculation $S = (Pt / 4\pi r^2)$.

Where:

Pt - The transmitted power (EIRP) (mW)

r - The distance from the unit. (cm)

The 1(mW/cm^2) limit can be calculated from the above based on the following data:

Pt- the transmitted power which calculated for antenna 15 dBi gain is equal to the maximum EIRP = 58.7 dBm = 741310.2 mW.

Minimum allowed distance r from the antenna main lobe were RF exposure limit may not be exceeded = SQRT(741310.2/4π) > 2.43 m.

Pt- the transmitted power which calculated for antenna 11 dBi gain is equal to the maximum EIRP = 54.7 dBm = 295120.9 mW.

Minimum allowed distance r from the antenna main lobe were RF exposure limit may not be exceeded = SQRT(295120.9/4π) > 1.54 m.