## FCC ID: 2AOH4WIT01CR

## **Maximum Permissible Exposure**

## Applicable Standard

According to §1.1307(b), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

Remark: 1) **For Band 1:** The maximum output power for antenna is 15.79dBm (35.56mW) at 5180MHz, 5.51dBi antenna gain(with 7.41 numeric antenna gain.)

**For Band 3:** The maximum output power for antenna is 15.86dBm (36.48mW) at 5825MHz, 5.51dBi antenna gain(with 7.41 numeric antenna gain.)

2) For mobile or fixed location transmitters, no SAR consideration applied. The minimum separation generally be used is at least 20cm, even if the calculation indicate that the MPE distance would be lesser.

Given 
$$E = \sqrt{\frac{30 \times P \times G}{d}}$$
 &  $S = \frac{E^2}{3770}$ 

Where  $E = Field$  Strength in Volts / meter  $P = Power$  in Watts  $G = Numeric$  antenna gain  $d = Distance$  in meters  $S = Power$  Density in milliwatts / square centimeter

Substituting the MPE safe distance using d=20cm into above equation.

Yields: S=0.000199\*P\*G

Maximum Emissions Level					
Mode	Power(mW)	numeric antenna gain	Power density (mW/cm²)	Limit (mW/cm²)	Result
Band 1	35.56	7.41	0.052436	1	PASS
Band 3	36.48	7.41	0.053793	l	FA33