



WH Technology Corp.

Maximum Permissible Exposure (MPE)

EUT INFORMATION

EUT	Verizon Global Router
Frequency band (Operating)	2.402 GHz ~ 2.480 GHz
Antenna diversity	<input type="checkbox"/> Single antenna <input checked="" type="checkbox"/> Multiple antennas <input type="checkbox"/> Tx diversity <input type="checkbox"/> Rx diversity <input checked="" type="checkbox"/> Tx/Rx diversity
Max. output power	-2.59 dBm (0.551 mW)
Antenna gain (Max)	-0.46 dBi

TEST RESULT

The modular use shall be at least 20cm distance away from human body.

MPE Calculation Method

$$E \text{ (V/m)} = \frac{\sqrt{30 \cdot P \cdot G}}{d}$$

$$\text{Power Density} = P_d \text{ (mW/cm}^2\text{)} = E^2 / 3770$$

Combine these two formulas can be changed to

$$P_d = (30 \cdot P \cdot G) / (3770 \cdot d^2)$$

Note:

1. "E" means Electric field (V/m).
2. "P" means Peak RF output power (W).
3. "G" means EUT Antenna numeric gain (numeric).
4. "d" means the minimum mobile separation distance is 0.2m between radiator and human body.



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Modulation Type	Channel	Frequency (MHz)	Output Power to Antenna (dBm)	Power Density (mW/cm ²)	Limit of Power Density (mW/cm ²)
GFSK	0	2402	-3.26	0.0000845	<1
	19	2440	-2.59	0.0000986	<1
	39	2480	-3.61	0.0000780	<1