



# FCC RF EXPOSURE REPORT

FCC ID: V7TAC6-V2

**Project No. : 1711C143** 

**Equipment**: AC1200 Smart Dual-Band WiFi Router

Model : AC6
Applicant : SHENZHEN TENDA TECHNOLOGY CO., LTD. Address : 6-8 Floor, Tower E3, No. 1001, Zhongshanyuan

Road, Nanshan District, Shenzhen China

According: : FCC Guidelines for Human Exposure IEEE

C95.1 & FCC Part 2.1091

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## MPE CALCULATION METHOD:

Calculation Method of RF Safety Distance:

$$S = \frac{PG}{4\pi r^2} = \frac{EIRP}{4\pi r^2}$$

where:

S = power density

P = power input to the antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

### Table for Filed Antenna

### 2.4G WIFI

P	۹nt.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
	1	N/A	N/A	Dipole	N/A	5
	2	N/A	N/A	Dipole	N/A	5

#### Nota

The EUT incorporates a MIMO function. Physically, the EUT provides two completed transmitters and receivers (2T2R), all transmit signals are completely uncorrelated, then, **Direction gain = Gant**, that is Directional gain=5.

### 5G WIFI

Ant.	Manufacturer	Model Name	Antenna Type	Connector	Gain (dBi)
3	N/A	N/A	Dipole	N/A	5
4	N/A	N/A	Dipole	N/A	5

#### Note

The EUT incorporates a MIMO function. Physically, the EUT provides two completed transmitters and receivers (2T2R), all transmit signals are completely uncorrelated, then, **Direction gain = Gant**, that is Directional gain=5





# **TEST RESULTS**

EUT:	AC1200 Smart Dual-Band WiFi Router	Model Name :	AC6
Temperature:	<b>25</b> ℃	Relative Humidity:	55 %
Test Voltage:	AC 120V/60Hz		

## 2.4G WIFI

Antenna Gain (dBi)	Antenna Gain	Peak Output Power (dBm)	•	Power Density (S) (mW/cm²)	Limit of Power Density (S) (mW/cm²)	Test Result
5	3.1623	29.48	887.1560	0.55841	1	Complies

## 5G Band UNII-1

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm²)	Limit of Power Density (S) (mW/cm²)	Test Result
5	3.1623	26.61	458.1419	0.28837	1	Complies

## 5G Band UNII-3

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	•	Power Density (S) (mW/cm²)	Limit of Power Density (S) (mW/cm²)	Test Result
5	3.1623	23.53	225.4239	0.14189	1	Complies

## For 2.4G+5G simultaneous transmission MPE:

0.55841 /1+0.28837 /1=0.84678

Note: the calculated distance is 20 cm.