

FCC RF EXPOSURE REPORT

FCC ID: V7TW6US

Project No. : 1608C151
Equipment : Wireless Access Point
Model : W6_US
Applicant : SHENZHEN TENDA TECHNOLOGY CO.,LTD
**Address : 6-8 Floor, Tower E3, No. 1001, Zhongshanyuan
Road, Nanshan District, Shenzhen, China. 518052**

According: : FCC Guidelines for Human Exposure IEEE C95.1

B T L I N C .

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MPE CALCULATION METHOD:

Calculation Method of RF Safety Distance:

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

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

Ant.	Brand	Model Name	Antenna Type	Connector	Gain(dBi)
1	Tenda	N/A	Internal	N/A	2
2	Tenda	N/A	Internal	N/A	2

Note:

- (1) The EUT incorporates a MIMO function. Physically, the EUT provides two completed two transmitters and two receivers (2T2R). All transmit signals are completely uncorrelated, then, Directional gain= G_{ANT} , that is Directional gain=2.

Operating Mode TX Mode	1TX	2TX
	802.11b	V (ANT 1)
802.11g	V (ANT 1)	-
802.11n(20MHz)	-	V (ANT 1 + ANT 2)
802.11n(40MHz)	-	V (ANT 1 + ANT 2)

TEST RESULTS

EUT :	Wireless Access Point	Model Name :	W6_US
Temperature :	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX B MODE / CH01, CH06, CH11		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
2	1.5849	20.21	104.9542	0.03310933	1	Complies
2	1.5849	15.37	34.4350	0.01086301	1	Complies
2	1.5849	16.82	48.0839	0.01516877	1	Complies

EUT :	Wireless Access Point	Model Name :	W6_US
Temperature :	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX G MODE / CH01, CH06, CH11		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
2	1.5849	18.16	65.4636	0.02065144	1	Complies
2	1.5849	25.34	341.9794	0.10788234	1	Complies
2	1.5849	17.65	58.2103	0.01836328	1	Complies

EUT :	Wireless Access Point	Model Name :	W6_US
Temperature:	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX N20 MODE_ Total (ANT1+ANT2) / CH01, CH06, CH11		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
2	1.5849	20.28	106.6596	0.03364731	1	Complies
2	1.5849	28.96	787.0458	0.24828494	1	Complies
2	1.5849	20.13	103.0386	0.03250501	1	Complies

EUT :	Wireless Access Point	Model Name :	W6_US
Temperature:	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX N40 MODE_ Total (ANT1+ANT2) / CH03, CH06, CH09		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
2	1.5849	18.25	66.8344	0.02108387	1	Complies
2	1.5849	22.86	193.1968	0.06094672	1	Complies
2	1.5849	18.54	71.4496	0.02253982	1	Complies

Note: the calculated distance is 20 cm.