



FCC RF EXPOSURE REPORT

FCC ID: V7TF1200

Project No. : 1406C099
Equipment : Wireless AC1200 Dual-band Router
Model : F1200
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

BTL Inc.

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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 Filled Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain(dBi)
0	Tenda	Q5115	Internal	N/A	3.25
1	Tenda	Q5115	Internal	N/A	3.25

TEST RESULTS

EUT :	Wireless AC1200 Dual-band Router	Model Name :	F1200
Temperature:	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX A MODE / CH36, CH40, CH48		

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
3.25	2.1135	10.1	10.2329	0.00430477	1	Complies
3.25	2.1135	9.8	9.5499	0.00401745	1	Complies
3.25	2.1135	12.7	18.6209	0.00783340	1	Complies

EUT :	Wireless AC1200 Dual-band Router	Model Name :	F1200
Temperature:	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX N20 MODE_Total / CH36, CH40, CH48		

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
3.25	2.1135	12.78	18.9671	0.00797903	1	Complies
3.25	2.1135	12.81	19.0985	0.00803434	1	Complies
3.25	2.1135	15.71	37.2392	0.01566572	1	Complies

EUT :	Wireless AC1200 Dual-band Router	Model Name :	F1200
Temperature:	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX N40 MODE_ Total /CH38, CH46		

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
3.25	2.1135	14.05	25.4097	0.01068933	1	Complies
3.25	2.1135	14.31	26.9774	0.01134881	1	Complies

EUT :	Wireless AC1200 Dual-band Router	Model Name :	F1200
Temperature:	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX AC N20 MODE_ Total /CH36, CH40, CH48		

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
3.25	2.1135	14.71	29.5801	0.01244372	1	Complies
3.25	2.1135	14.51	28.2488	0.01188366	1	Complies
3.25	2.1135	14.51	28.2488	0.01188366	1	Complies

EUT :	Wireless AC1200 Dual-band Router	Model Name :	F1200
Temperature:	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX AC N40 MODE_ Total /CH38, CH46		

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
3.25	2.1135	16.9	48.9779	0.02060394	1	Complies
3.25	2.1135	16.8	47.8630	0.02013494	1	Complies

EUT :	Wireless AC1200 Dual-band Router	Model Name :	F1200
Temperature:	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX AC N80 MODE_ Total /CH44		

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
3.25	2.1135	13.6	22.9087	0.00963719	1	Complies

Note: the calculated distance is 20 cm.