

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.

No.3, Jinshagang 1st Road, ShiXia, Dalang Town, Dong Guan, China.

TEL: (0769) 8318-3000 FAX: (0769) 8319-6000



MPE CALCULATION METHOD:

Calculation Method of RF Safety Distance:

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

where:

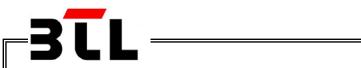
S = power density

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

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

IFUI:	Wireless AC1200 Dual-band Router	Model Name :	F1200		
Temperature:	25 ℃	Relative Humidity:	55 %		
Test Voltage:	AC 120V/60Hz				
Test Mode :	TX A MODE / CH149, CH157, CH165				

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
3.25	2.1135	23.4	218.7762	0.09203444	1	Complies
3.25	2.1135	23.2	208.9296	0.08789221	1	Complies
3.25	2.1135	23	199.5262	0.08393641	1	Complies

IFUT:	Wireless AC1200 Dual-band Router	Model Name :	F1200		
Temperature:	25 ℃	Relative Humidity:	55 %		
Test Voltage:	AC 120V/60Hz				
Test Mode :	TX N20 MODE_Total / CH149, CH157, CH165				

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
3.25	2.1135	25.51	355.6313	0.14960647	1	Complies
3.25	2.1135	25.56	359.7493	0.15133883	1	Complies
3.25	2.1135	25.56	359.7493	0.15133883	1	Complies



IFUT:	Wireless AC1200 Dual-band Router	Model Name :	F1200		
Temperature:	25 ℃	Relative Humidity:	55 %		
Test Voltage:	AC 120V/60Hz				
Test Mode :	de: TX N40 MODE_ Total /CH151, CH159				

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	•	Power Density (S) (mW/cm²)	Limit of Power Density (S) (mW/cm²)	Test Result
3.25	2.1135	25.56	359.7493	0.15133883	1	Complies
3.25	2.1135	25.66	368.1290	0.15486396	1	Complies

HUI:	Wireless AC1200 Dual-band Router	Model Name :	F1200		
Temperature:	25 ℃	Relative Humidity:	55 %		
Test Voltage:	AC 120V/60Hz				
Test Mode :	TX AC N20 MODE_Total /CH149, CH157, CH165				

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
3.25	2.1135	25.76	376.7038	0.15847121	1	Complies
3.25	2.1135	25.56	359.7493	0.15133883	1	Complies
3.25	2.1135	25.56	359.7493	0.15133883	1	Complies



IFUI :	Wireless AC1200 Dual-band Router	Model Name :	F1200		
Temperature:	25 ℃	Relative Humidity:	55 %		
Test Voltage :	AC 120V/60Hz				
Test Mode :	TX AC N40 MODE_ Total /CH151, CH159				

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
3.25	2.1135	25.91	389.9420	0.16404023	1	Complies
3.25	2.1135	25.71	372.3917	0.15665720	1	Complies

IFUT:	Wireless AC1200 Dual-band Router	Model Name :	F1200		
Temperature:	25 ℃	Relative Humidity:	55 %		
Test Voltage :	AC 120V/60Hz				
Test Mode :	TX AC N80 MODE_Total /CH155				

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
3.25	2.1135	26.16	413.0475	0.17376022	1	Complies

Note: the calculated distance is 20 cm.