



FCC RF EXPOSURE REPORT

FCC ID: V7TA300

Project No. : 1407C099
Equipment : Wireless N300 Universal Range Extender
Model : A300
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 Filed Antenna

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



TEST RESULTS

EUT :	Wireless N300 Universal Range Extender	Model Name :	A300
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	20.36	108.6426	0.03427286	1	Complies
2	1.5849	21.05	127.3503	0.04017449	1	Complies
2	1.5849	21.35	136.4583	0.04304774	1	Complies

EUT :	Wireless N300 Universal Range Extender	Model Name :	A300
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	22.26	168.2674	0.05308238	1	Complies
2	1.5849	23.45	221.3095	0.06981526	1	Complies
2	1.5849	22.28	169.0441	0.05332740	1	Complies

EUT :	Wireless N300 Universal Range Extender	Model Name :	A300
Temperature:	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX N-20M MODE_ Total /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	24.70	295.1209	0.09310015	1	Complies
2	1.5849	25.65	367.2823	0.11586449	1	Complies
2	1.5849	24.87	306.9022	0.09681672	1	Complies

EUT :	Wireless N300 Universal Range Extender	Model Name :	A300
Temperature:	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX N-40M MODE_ Total /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	22.93	196.3360	0.06193703	1	Complies
2	1.5849	25.52	356.4511	0.11244765	1	Complies
2	1.5849	23.92	246.6039	0.07779476	1	Complies

Note: the calculated distance is 20 cm.