



FCC RF EXPOSURE REPORT

FCC ID: V7TWH302A

Project No. : 1406C040
Equipment : Wireless N300 High Power Access Point
Model : WH302A
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:

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

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)	Note
1	N/A	N/A	Printed Antenna	N/A	2	
2	N/A	N/A	Printed Antenna	N/A	2	



TEST RESULTS

EUT :	Wireless N300 High Power Access Point	Model Name :	WH302A
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	23.3	213.7962	0.06744509	1	Complies
2	1.5849	23.3	213.7962	0.06744509	1	Complies
2	1.5849	23.5	223.8721	0.07062368	1	Complies

EUT :	Wireless N300 High Power Access Point	Model Name :	WH302A
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	25.1	323.5937	0.10208228	1	Complies
2	1.5849	25.1	323.5937	0.10208228	1	Complies
2	1.5849	25	316.2278	0.09975861	1	Complies

EUT :	Wireless N300 High Power Access Point	Model Name :	WH302A
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	26.07	404.5759	0.12762929	1	Complies
2	1.5849	26	398.1072	0.12558864	1	Complies
2	1.5849	26.21	417.8304	0.13181061	1	Complies

EUT :	Wireless N300 High Power Access Point	Model Name :	WH302A
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	26.77	475.3352	0.14995135	1	Complies
2	1.5849	26.81	479.7334	0.15133883	1	Complies
2	1.5849	26.76	474.2420	0.14960647	1	Complies

Note: the calculated distance is 20 cm.