

FCC RF EXPOSURE REPORT

FCC ID: V7TA301V2

Project No. : 1509C314
Equipment : Wireless N300 Universal Range Extender
Model : A301
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.	Manufacturer	Model Name	Antenna Type	Connector	Gain(dBi)
1	Tenda	N/A	Dipole	N/A	2.25
2	Tenda	N/A	Dipole	N/A	2.25

TEST RESULTS

EUT :	Wireless N300 Universal Range Extender	Model Name :	A301
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
2.25	1.6788	22.79	190.1078	0.06352583	1	Complies
2.25	1.6788	22.59	181.5516	0.06066670	1	Complies
2.25	1.6788	21.61	144.8772	0.04841170	1	Complies

EUT :	Wireless N300 Universal Range Extender	Model Name :	A301
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
2.25	1.6788	22.03	159.5879	0.05332740	1	Complies
2.25	1.6788	24.43	277.3320	0.09267239	1	Complies
2.25	1.6788	21.15	130.3167	0.04354621	1	Complies

EUT :	Wireless N300 Universal Range Extender	Model Name :	A301
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
2.25	1.6788	23.90	245.4709	0.08202578	1	Complies
2.25	1.6788	26.26	422.6686	0.14123761	1	Complies
2.25	1.6788	23.72	235.5049	0.07869559	1	Complies

EUT :	Wireless N300 Universal Range Extender	Model Name :	A301
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
2.25	1.6788	22.09	161.8080	0.05406925	1	Complies
2.25	1.6788	26.15	412.0975	0.13770521	1	Complies
2.25	1.6788	22.34	171.3957	0.05727306	1	Complies

Note: the calculated distance is 20 cm.