



Neutron Engineering Inc.

FCC RF EXPOSURE REPORT

FCC ID: V7T4G301

Project No. : 1402C142
Equipment : Wireless N300 3G/4G Router
Model : 4G301; 4G304
Applicant : SHENZHEN TENDA TECHNOLOGY CO.,LTD.
Address : 6-8 Floor, Tower E3, No. 1001, Zhongshanyuan Road, Nanshan District, Shenzhen, China.

According: : FCC Guidelines for Human Exposure IEEE C95.1

Neutron Engineering Inc.

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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.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note	Length
1	N/A	NA	Internal	N/A	2.57	TX/RX	90mm
2	N/A	NA	Internal	N/A	2.58	TX/RX	70mm



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TEST RESULTS

EUT:	Wireless N300 3G/4G Router	Model Name :	4G301; 4G304
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)	Average Output Power (dBm)	Average Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
2.58	1.8113	9.93	9.8401	0.00354773	1	Complies
2.58	1.8113	9.76	9.4624	0.00341154	1	Complies
2.58	1.8113	9.84	9.6383	0.00347496	1	Complies

EUT:	Wireless N300 3G/4G Router	Model Name :	4G301; 4G304
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)	Average Output Power (dBm)	Average Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
2.58	1.8113	9.71	9.3541	0.00337249	1	Complies
2.58	1.8113	9.96	9.9083	0.00357232	1	Complies
2.58	1.8113	9.83	9.6161	0.00346697	1	Complies



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EUT:	Wireless N300 3G/4G Router	Model Name :	4G301; 4G304
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)	Average Output Power (dBm)	Average Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
2.58	1.8113	9.82	9.5940	0.00381022	1	Complies
2.58	1.8113	9.86	9.6828	0.00384548	1	Complies
2.58	1.8113	9.84	9.6383	0.00382781	1	Complies

EUT:	Wireless N300 3G/4G Router	Model Name :	4G301; 4G304
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)	Average Output Power (dBm)	Average Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
2.58	1.8113	9.92	9.8175	0.00389897	1	Complies
2.58	1.8113	9.91	9.7949	0.00389001	1	Complies
2.58	1.8113	9.85	9.6605	0.00383663	1	Complies

The calculated distance is 20 cm