



Neutron Engineering Inc.

FCC RF EXPOSURE REPORT

FCC ID: V7TW1500A

Project No. : 1304C204
Equipment : Wireless N150 Outdoor Long Range AP/Router
Model : W1500A
Applicant : SHENZHEN TENDA TECHNOLOGY CO.,LTD.
**Address : Tenda Industrial Park, No.34-1, Shilong Rd.,
Shiyan Town, Bao'an District, Shenzhen, P.R.
China 518108**

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)
1	N/A	N/A	Integral	N/A	10



TEST RESULTS

EUT:	Wireless N150 Outdoor Long Range AP/Router	Model Name :	W1500A
Temperature:	25 °C	Relative Humidity :	58 %
Pressure:	1010 hPa	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
10	10.0000	12.77	18.9234	0.03766608	1	Complies
10	10.0000	12.94	19.6789	0.03916971	1	Complies
10	10.0000	12.87	19.3642	0.03854343	1	Complies

EUT:	Wireless N150 Outdoor Long Range AP/Router	Model Name :	W1500A
Temperature:	25 °C	Relative Humidity :	58 %
Pressure:	1010 hPa	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
10	10.0000	19.15	82.2243	0.16366295	1	Complies
10	10.0000	19.04	80.1678	0.15956968	1	Complies
10	10.0000	19.57	90.5733	0.18028117	1	Complies



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EUT:	Wireless N150 Outdoor Long Range AP/Router	Model Name :	W1500A
Temperature:	25 °C	Relative Humidity :	58 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-20M 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
10	10.0000	19.21	83.3681	0.16593973	1	Complies
10	10.0000	19.16	82.4138	0.16404023	1	Complies
10	10.0000	19.56	90.3649	0.17986654	1	Complies

EUT:	Wireless N150 Outdoor Long Range AP/Router	Model Name :	W1500A
Temperature:	25 °C	Relative Humidity :	58 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-40M MODE /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
10	10.0000	19.37	86.4968	0.17216718	1	Complies
10	10.0000	19.67	92.6830	0.18448046	1	Complies
10	10.0000	19.64	92.0450	0.18321050	1	Complies