



Neutron Engineering Inc.

FCC RF EXPOSURE REPORT

FCC ID: V7T4G630

Project No. : 1403C127
Equipment : 3G/4G Wireless N300 Router
Model : 4G630
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

Neutron Engineering 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)	Note	Length
1	Tenda	Q5138	Dipole	N/A	5	TX/RX	80mm
1	Tenda	Q5142	Dipole	N/A	5	TX/RX	165mm



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TEST RESULTS

EUT:	3G/4G Wireless N300 Router	Model Name :	4G630
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
5	3.1623	17.82	60.5341	0.03810223	1	Complies
5	3.1623	17.74	59.4292	0.03740678	1	Complies
5	3.1623	17.87	61.2350	0.03854343	1	Complies

EUT:	3G/4G Wireless N300 Router	Model Name :	4G630
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
5	3.1623	20.22	105.1962	0.06621408	1	Complies
5	3.1623	20.32	107.6465	0.06775641	1	Complies
5	3.1623	20.2	104.7129	0.06590986	1	Complies



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EUT:	3G/4G Wireless N300 Router	Model Name :	4G630
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
5	3.1623	21.52	141.9058	0.08932034	1	Complies
5	3.1623	21.74	149.2794	0.09396159	1	Complies
5	3.1623	21.71	148.2518	0.09331477	1	Complies

EUT:	3G/4G Wireless N300 Router	Model Name :	4G630
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
5	3.1623	21.58	143.8799	0.09056291	1	Complies
5	3.1623	21.51	141.5794	0.08911491	1	Complies
5	3.1623	21.56	143.2188	0.09014681	1	Complies

The calculated distance is 20 cm