



Neutron Engineering Inc.

FCC RF EXPOSURE REPORT

FCC ID: QGH-47611-WG4

Project No. : 1401C081
Equipment : 300Mbps Dual Band 802.11n Wireless Gigabit Router
Model : 47611-WG4
Applicant : Leviton Manufacturing Co., Inc..
Address : 201 North Service Road Melville, NY 11747

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

Neutron Engineering Inc.

No.3, Jinshagang 1st Road, ShiXia, Dalang Town, Dong Guan, China.

TEL : (0769) 8318-3000 FAX : (0769) 8319-6000



Neutron Engineering Inc.

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)
1	N/A	Q5062	Dipole Antenna	N/A	3.8
2	N/A	Q5063	Dipole Antenna	N/A	3.72



TEST RESULTS

EUT:	300Mbps Dual Band 802.11n Wireless Gigabit Router	Model Name :	47611-WG4
Temperature:	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX A MODE /CH36, CH40, CH48		

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
3.8	2.3988	15.48	35.3183	0.01686360	1	Complies
3.8	2.3988	15.56	35.9749	0.01717712	1	Complies
3.8	2.3988	15.58	36.1410	0.01725641	1	Complies

EUT:	300Mbps Dual Band 802.11n Wireless Gigabit Router	Model Name :	47611-WG4
Temperature:	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX N-20M MODE /CH36, CH40, CH48		

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
3.8	2.3988	14.50	28.1838	0.01345707	1	Complies
3.8	2.3988	14.47	27.9898	0.01336443	1	Complies
3.8	2.3988	14.49	28.1190	0.01342612	1	Complies



Neutron Engineering Inc.

EUT:	300Mbps Dual Band 802.11n Wireless Gigabit Router	Model Name :	47611-WG4
Temperature:	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX N-40M MODE /CH38, CH46		

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
3.8	2.3988	13.59	22.8560	0.00872872	1	Complies
3.8	2.3988	14.46	27.9254	0.01066474	1	Complies

The calculated distance is 20 cm