

FCC RF EXPOSURE REPORT

FCC ID: X4Y23062

Equipment : Wireless-N 300Mbps router

Model : ARN02304U4

Applicant : NEXXT SOLUTIONS

Address : 3505 N.W MIAMI, FL, 33178

**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:

$$S = \frac{PG}{4\pi r^2} = \frac{EIRP}{4\pi r^2}$$

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		50000933	Dipole	N/A	4.94
2		50000933	Dipole	N/A	4.94

TEST RESULTS

EUT :	Wireless-N 300Mbps router	Model Name :	ARN02304U4
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
4.94	3.1189	20.84	121.3389	0.07532695	1	Complies
4.94	3.1189	19.55	90.1571	0.05596936	1	Complies
4.94	3.1189	17.98	62.8058	0.03898974	1	Complies

EUT :	Wireless-N 300Mbps router	Model Name :	ARN02304U4
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
4.94	3.1189	21.89	154.5254	0.09592910	1	Complies
4.94	3.1189	21.05	127.3503	0.07905883	1	Complies
4.94	3.1189	20.23	105.4387	0.06545614	1	Complies

EUT :	Wireless-N 300Mbps router	Model Name :	ARN02304U4
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
4.94	3.1189	23.98	250.0345	0.15522096	1	Complies
4.94	3.1189	23.14	206.0630	0.12792351	1	Complies
4.94	3.1189	22.33	171.0015	0.10615742	1	Complies

EUT :	Wireless-N 300Mbps router	Model Name :	ARN02304U4
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
4.94	3.1189	20.19	104.4720	0.06485603	1	Complies
4.94	3.1189	19.81	95.7194	0.05942242	1	Complies
4.94	3.1189	20.19	104.4720	0.06485603	1	Complies

Note: the calculated distance is 20 cm.