

FCC RF EXPOSURE REPORT

FCC ID:X4YNOVA3

Project No. : 1509C271
Equipment : ADSL Modem Wireless-N Router
Model : AML02304U1
Applicant : NEXXT SOLUTIONS
Address : 3505 N.W 107TH AVE,MIAMI,FL,33178, United States

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

B T L I N C .

No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, China.
TEL: +86-769-8318-3000 FAX: +86-769-8319-6000

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
1	N/A	Q5150	Dipole	N/A	4.74	TX/RX
2	N/A	Q5149	Dipole	N/A	4.92	TX/RX

TEST RESULTS

EUT :	ADSL Modem Wireless-N Router	Model Name :	AML02304U1
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
4.92	3.1046	12.27	16.8655	0.01042198	1	Complies
4.92	3.1046	12.94	19.6789	0.01216047	1	Complies
4.92	3.1046	11.71	14.8252	0.00916116	1	Complies

EUT :	ADSL Modem Wireless-N Router	Model Name :	AML02304U1
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
4.92	3.1046	17.68	58.6138	0.03622016	1	Complies
4.92	3.1046	20.51	112.4605	0.06949449	1	Complies
4.92	3.1046	17.14	51.7607	0.03198530	1	Complies

EUT :	ADSL Modem Wireless-N Router	Model Name :	AML02304U1
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
4.92	3.1046	18.70	74.1310	0.04580895	1	Complies
4.92	3.1046	24.59	287.7398	0.17780762	1	Complies
4.92	3.1046	15.66	36.8129	0.02274837	1	Complies

EUT :	ADSL Modem Wireless-N Router	Model Name :	AML02304U1
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
4.92	3.1046	17.47	55.8470	0.03451043	1	Complies
4.92	3.1046	22.19	165.5770	0.10231761	1	Complies
4.92	3.1046	16.17	41.4000	0.02558294	1	Complies

Note: the calculated distance is 20 cm.