



Neutron Engineering Inc.

FCC RF EXPOSURE REPORT

FCC ID: YJYWR401NA

Project No. : 1202C179
Equipment : Wireless Nano Router
Model : M1
Applicant : Shanghai Feixun Communication Co., Ltd
Address : Wing B, 15/F, GDC Building, NO.9
Gaoxinzhong 3rd Ave., Nanshan, Shenzhen,
Guangdong , China

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



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

Ant.	Brand name	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	Printed antenna	N/A	1.97

TEST RESULTS

EUT:	Wireless Nano Router	Model Name :	M1
Temperature:	25 °C	Relative Humidity:	60 %
Pressure:	1012 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
1.97	1.5740	20.90	123.0269	0.03854343	1	Complies
1.97	1.5740	20.76	119.1242	0.03732075	1	Complies
1.97	1.5740	20.58	114.2878	0.03580555	1	Complies



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EUT:	Wireless Nano Router	Model Name :	M1
Temperature:	25 °C	Relative Humidity:	60 %
Pressure:	1012 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
1.97	1.5740	23.67	232.8091	0.07293742	1	Complies
1.97	1.5740	23.52	224.9055	0.07046125	1	Complies
1.97	1.5740	23.62	230.1442	0.07210251	1	Complies

EUT:	Wireless Nano Router	Model Name :	M1
Temperature:	25 °C	Relative Humidity:	60 %
Pressure:	1012 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
1.97	1.5740	22.96	197.6970	0.06193703	1	Complies
1.97	1.5740	22.35	171.7908	0.05382083	1	Complies
1.97	1.5740	21.97	157.3983	0.04931174	1	Complies

EUT:	Wireless Nano Router	Model Name :	M1
Temperature:	25 °C	Relative Humidity:	60 %
Pressure:	1012 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-40 MODE /CH03, CH06, CH9		

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
1.97	1.5740	23.98	250.0345	0.07833401	1	Complies
1.97	1.5740	23.60	229.0868	0.07177123	1	Complies
1.97	1.5740	23.21	209.4112	0.06560703	1	Complies