



Neutron Engineering Inc.

FCC RF EXPOSURE REPORT

FCC ID: YJYWR207NA

Project No. : 1108C007B
Equipment : 150Mbps Wireless N Router
Model Name : FWR-614N;FWR-634N
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**

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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

Model	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
FWR-614N	WDK	K601-240012-A	Dipole Antenna	N/A	3.53
FWR-634N	WDK	K601-360019-A	Integral PCB Antenna	N/A	3.88

TEST RESULTS

EUT:	150Mbps Wireless N Router	Model Name :	FWR-614N
Temperature:	28 °C	Relative Humidity:	58 %
Pressure:	1010 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
3.88	2.4434	21.91	155.2387	0.075501	1	Complies
3.88	2.4434	21.01	126.1828	0.061369	1	Complies
3.88	2.4434	21.30	134.8963	0.065607	1	Complies



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EUT:	150Mbps Wireless N Router	Model Name :	FWR-614N
Temperature:	28 °C	Relative Humidity:	58 %
Pressure:	1010 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
3.88	2.4434	21.88	154.1700	0.074981	1	Complies
3.88	2.4434	20.79	119.9499	0.058338	1	Complies
3.88	2.4434	20.24	105.6818	0.051398	1	Complies

EUT:	150Mbps Wireless N Router	Model Name :	FWR-614N
Temperature:	28 °C	Relative Humidity:	58 %
Pressure:	1010 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
3.88	2.4434	21.78	150.6607	0.073274	1	Complies
3.88	2.4434	20.84	121.3389	0.059013	1	Complies
3.88	2.4434	20.12	102.8016	0.049998	1	Complies

EUT:	150Mbps Wireless N Router	Model Name :	FWR-614N
Temperature:	28 °C	Relative Humidity:	58 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-40M MODE /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
3.88	2.4434	19.16	82.4138	0.040082	1	Complies
3.88	2.4434	19.98	99.5405	0.048412	1	Complies
3.88	2.4434	19.26	84.3335	0.041016	1	Complies

Note* All result complies.