



Neutron Engineering Inc.

FCC RF EXPOSURE REPORT

FCC ID: YJYWR2030A

Project No. : 1108C062B
Equipment : 300Mbps Wireless N Router
Model : FWR-714N; FWR-734N
Applicant : Shanghai Feixun Communication Co., Ltd
**Address : No.90, HQ Business Park, 4855 Guangfulin Road,
Songjiang District, Shanghai, 201616, China**
According: : FCC Guidelines for Human Exposure IEEE C95.1

Neutron Engineering Inc.

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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-714N	WDK	K601-240012-A	Dipole Antenna	N/A	3.52
FWR-734N	WDK	K601-360019-A	Integral PCB Antenna	N/A	3.88

TEST RESULTS

EUT:	300Mbps Wireless N Router	Model Name :	FWR-734N
Temperature:	24 °C	Relative Humidity:	60 %
Pressure:	1016 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	18.46	70.1455	0.034115	1	Complies
3.88	2.4434	18.51	70.9578	0.034510	1	Complies
3.88	2.4434	18.56	71.7794	0.034910	1	Complies



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EUT:	300Mbps Wireless N Router	Model Name :	FWR-734N
Temperature:	24 °C	Relative Humidity:	60 %
Pressure:	1016 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	19.96	99.0832	0.048189	1	Complies
3.88	2.4434	20.35	108.3927	0.052717	1	Complies
3.88	2.4434	20.03	100.6932	0.048972	1	Complies

EUT:	300Mbps Wireless N Router	Model Name :	FWR-734N
Temperature:	24 °C	Relative Humidity:	60 %
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-20M MODE /CH01, CH06, CH11 - ANT 1+ ANT 2		

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	19.30	85.1138	0.041395	1	Complies
3.88	2.4434	19.46	88.3080	0.042949	1	Complies
3.88	2.4434	19.36	86.2979	0.041971	1	Complies

EUT:	300Mbps Wireless N Router	Model Name :	FWR-734N
Temperature:	24 °C	Relative Humidity:	60 %
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-40M MODE /CH03, CH06, CH09 - ANT 1+ ANT 2		

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	19.25	84.1395	0.040921	1	Complies
3.88	2.4434	19.14	82.0352	0.039898	1	Complies
3.88	2.4434	19.14	82.0352	0.039898	1	Complies

Note:
All test result is complies.