

# **FCC RF EXPOSURE REPORT**

**FCC ID: T58WF2409ER**

**Equipment : 300Mbps Wireless N Router**  
**Model : WF2409E**  
**Applicant : NETIS SYSTEMS CO., LTD**  
**Address : 4F&5F R&D Building › Oriental Cyberport,**  
**High-Tech Industrial Park, Nanshan,**  
**Shenzhen, China**  
**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)	Note
1		RF21C00283A	Dipole	N/A	5.00	TX/RX
2		RF21C00283A	Dipole	N/A	5.00	TX/RX
3		RF21C00283A	Dipole	N/A	5.00	RX

## TEST RESULTS

EUT :	300Mbps Wireless N Router	Model Name :	WF2409E
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 <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
5	3.1623	18.60	72.4436	0.04559848	1	Complies
5	3.1623	18.80	75.8578	0.04774747	1	Complies
5	3.1623	18.75	74.9894	0.04720091	1	Complies

EUT :	300Mbps Wireless N Router	Model Name :	WF2409E
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 <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
5	3.1623	22.25	167.8804	0.10566967	1	Complies
5	3.1623	22.40	173.7801	0.10938314	1	Complies
5	3.1623	22.06	160.6941	0.10114639	1	Complies

EUT :	300Mbps Wireless N Router	Model Name :	WF2409E
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 <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
5	3.1623	24.29	268.5344	0.16902478	1	Complies
5	3.1623	24.24	265.4606	0.16708997	1	Complies
5	3.1623	24.83	304.0885	0.19140372	1	Complies

EUT :	300Mbps Wireless N Router	Model Name :	WF2409E
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 <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
5	3.1623	23.19	208.4491	0.13120500	1	Complies
5	3.1623	23.26	211.8361	0.13333690	1	Complies
5	3.1623	23.12	205.1162	0.12910717	1	Complies

Note: the calculated distance is 20 cm.