

# **FCC RF EXPOSURE REPORT**

**FCC ID: T58WF2220R**

**Equipment : 300Mbps Wireless N Access Point**  
**Model : WF2220**  
**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:

$$S = \frac{PG}{4\pi^2} = \frac{EIRP}{4\pi^2}$$

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	Dongguan RF Electronic Technology	RF21S00001 A	Dipole	N/A	5.24	TX/RX
2	Dongguan RF Electronic Technology	RF21S00001 A	Dipole	N/A	5.24	TX/RX

## TEST RESULTS

EUT :	300Mbps Wireless N Access Point	Model Name :	WF2220
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
5.24	3.3420	18.40	69.1831	0.04602040	1	Complies
5.24	3.3420	17.80	60.2560	0.04008209	1	Complies
5.24	3.3420	17.96	62.5173	0.04158631	1	Complies

EUT :	300Mbps Wireless N Access Point	Model Name :	WF2220
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
5.24	3.3420	25.01	316.9567	0.21083872	1	Complies
5.24	3.3420	24.76	299.2265	0.19904459	1	Complies
5.24	3.3420	24.95	312.6079	0.20794590	1	Complies

EUT :	300Mbps Wireless N Access Point	Model Name :	WF2220
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
5.24	3.3420	22.20	165.9587	0.11039525	1	Complies
5.24	3.3420	22.28	169.0441	0.11244765	1	Complies
5.24	3.3420	22.73	187.4995	0.12472410	1	Complies

EUT :	300Mbps Wireless N Access Point	Model Name :	WF2220
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
5.24	3.3420	22.71	186.6380	0.12415104	1	Complies
5.24	3.3420	22.53	179.0606	0.11911059	1	Complies
5.24	3.3420	22.44	175.3881	0.11666763	1	Complies

Note: the calculated distance is 20 cm.