

FCC RF EXPOSURE REPORT

FCC ID: T58MW5230R

Project No. : 1505C274
Equipment : 3G/4G Wireless N 300Mbps Router
Model : MW5230
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	<i>RF link</i>	RF21C00806A	Dipole	N/A	4.73	TX/RX
2	<i>RF link</i>	RF21C00806A	Dipole	N/A	4.73	TX/RX
6	<i>RF link</i>	RF21C00806A	Dipole	N/A	4.73	RX

TEST RESULTS

EUT :	3G/4G Wireless N 300Mbps Router	Model Name :	MW5230
Temperature :	25 °C	Relative Humidity:	60 %
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
4.73	2.9717	16.61	45.8142	0.02709882	1	Complies
4.73	2.9717	16.5	44.6684	0.02642107	1	Complies
4.73	2.9717	16.33	42.9536	0.02540682	1	Complies

EUT :	3G/4G Wireless N 300Mbps Router	Model Name :	MW5230
Temperature :	25 °C	Relative Humidity:	60 %
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
4.73	2.9717	23.55	226.4644	0.13395236	1	Complies
4.73	2.9717	23.72	235.5049	0.13929976	1	Complies
4.73	2.9717	23.48	222.8435	0.13181061	1	Complies

EUT :	3G/4G Wireless N 300Mbps Router	Model Name :	MW5230
Temperature:	25 °C	Relative Humidity:	60 %
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 ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
4.73	2.9717	23.45	221.3095	0.13090323	1	Complies
4.73	2.9717	23.49	223.3572	0.13211446	1	Complies
4.73	2.9717	23.32	214.7830	0.12704289	1	Complies

EUT :	3G/4G Wireless N 300Mbps Router	Model Name :	MW5230
Temperature:	25 °C	Relative Humidity:	60 %
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 ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
4.73	2.9717	22.71	186.6380	0.11039525	1	Complies
4.73	2.9717	22.66	184.5015	0.10913156	1	Complies
4.73	2.9717	22.43	174.9847	0.10350239	1	Complies

Note: the calculated distance is 20 cm.