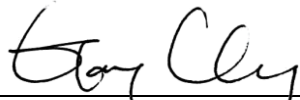


# FCC RF Exposure Report

**FCC ID** : PY314200269  
**Equipment** : N150 Wireless Router  
**Model No.** : WNR1000v4, JNR1010v2  
(please refer to section 1.1.1 for more details.)  
**Brand Name** : NETGEAR  
**Applicant** : NETGEAR, Inc.  
**Address** : 350 East Plumeria Drive, San Jose, California  
95134, USA  
**Standard** : 47 CFR FCC Part 2.1091  
**Received Date** : May 23, 2014  
**Tested Date** : May 23 ~ Jun. 04, 2014

We, International Certification Corp., would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It may be duplicated completely for legal use with the approval of the applicant. It shall not be reproduced except in full without the written approval of our laboratory.

Approved & Reviewed by:



Gary Chang / Manager



Testing Laboratory  
2732

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## Release Record

Report No.	Version	Description	Issued Date
FA460603	Rev. 01	Initial issue	Jul. 15, 2014

# 1 General Description

## 1.1 Information

### 1.1.1 Product Details

The following models are provided to this EUT.

Brand Name	Model Name	Product Name	Description	
			Ant.	Housing
NETGEAR	WNR1000v4	N150 Wireless Router	1x 2dBi	black color
	JNR1010v2		1x 5dBi	white color
<ul style="list-style-type: none"> <li>✦ Difference between each model is only antenna and housing. PCB board of each model is identical.</li> <li>✦ The above models, model <b>JNR1010v2</b> were selected as a representatives for the final test and only its data was recorded in this report.</li> </ul>				

### 1.1.2 Antenna Details

Ant. No.	Ant. brand	Ant. Model	EUT Model	Type	Gain (dBi)	Connector	Remarks
1	Unilink	MCS-017-02	WNR1000v4	Dipole	2	---	1 <sup>st</sup> source Ant.
2	Unilink	MCS-042-02	JNR1010v2	Dipole	5	---	
3	Masterwave	98242MYF021	WNR1000v4	Dipole	2	---	2 <sup>nd</sup> source Ant.
4	Masterwave	98158MYF006	JNR1010v2	Dipole	5	---	
5	WNC	08.22400.003	WNR1000v4	Dipole	2	---	3 <sup>rd</sup> source Ant.
6	WNC	08.22400.009	JNR1010v2	Dipole	5	---	

#### NOTE:

1. 1<sup>st</sup> source (Unilink), 2<sup>nd</sup> source (Masterwave) and 3<sup>rd</sup> source (WNC) antenna had been covered during the pretest and found that the worst antenna is **2<sup>nd</sup> source (Masterwave)**; and the antenna with highest gain (**5dBi**) was selected for final testing.

## 2 MPE EVALUATION OF MOBILE DEVICES

Human exposure to RF emissions from mobile devices (47 CFR §2.1091) may be evaluated based on the MPE limits adopted by the FCC for electric and magnetic field strength and/or power density, as appropriate, since exposures are assumed to occur at distances of 20 cm or more from persons.

### 2.1 LIMITS FOR GENERAL POPULATION/UNCONTROLLED EXPOSURE

Frequency Range (MHz)	Power Density (mW /cm <sup>2</sup> )	Averaging Time (minutes)
300~1500	F/1500	30
1500~100000	1.0	30

### 2.2 MPE EVALUATION FORMULA

$$Pd = \frac{Pt}{4 * Pi * R^2}$$

Where

Pd= Power density in mW/cm<sup>2</sup>

Pt= EIRP in mW

Pi= 3.1416

R= Measurement distance

### 2.3 MPE EVALUATION RESULTS

Frequency Range (MHz)	Maximum Conducted Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )
2412~2462	19.58	5	20	0.057	1

### 3 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corp, it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan Hsiang. Location map can be found on our website <http://www.icertifi.com.tw>.

#### **Linkou**

Tel: 886-2-2601-1640

No. 30-2, Ding Fwu Tsuen, Lin Kou District, New Taipei City, Taiwan, R.O.C.

#### **Kwei Shan**

Tel: 886-3-271-8666

No. 3-1, Lane 6, Wen San 3rd St., Kwei Shan Hsiang, Tao Yuan Hsien 333, Taiwan, R.O.C.

If you have any suggestion, please feel free to contact us as below information

Tel: 886-3-271-8666

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Email: ICC\_Service@icertifi.com.tw

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