

## RF Exposure Report

**Report No.:** SA120420C08M

**FCC ID:** PY312100187

**Test Model:** WNDR4300

**Received Date:** Apr. 20, 2012

**Issued Date:** Dec. 24, 2015

**Applicant:** NETGEAR, INC.

**Address:** 350 East Plumeria Drive San Jose, CA 95134

**Issued By:** Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

**Lab Address:** No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan, R.O.C.

**Test Location:** No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City 33383, TAIWAN (R.O.C.)



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### Release Control Record

Issue No.	Description	Date Issued
SA120420C08M	Original release	Dec. 24, 2015

## 1 Certificate of Conformity

**Product:** N750 Wireless Dual Band Gigabit Router

**Brand:** Netgear

**Test Model:** WNDR4300

**Sample Status:** ENGINEERING SAMPLE

**Applicant:** NETGEAR, INC.

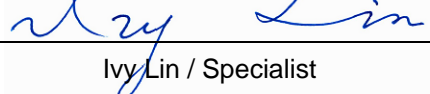
**Standards:** FCC Part 2 (Section 2.1091)


KDB 447498 D01 (October 23, 2015)

KDB 865664 D02 (October 23, 2015)

IEEE C95.1

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

**Prepared by :**  , **Date:** Dec. 24, 2015  
Ivy Lin / Specialist

**Approved by :**  , **Date:** Dec. 24, 2015  
Ken Liu / Senior Manager

## 2 RF Exposure

### 2.1 Limits For Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm <sup>2</sup> )	Average Time (minutes)
Limits For General Population / Uncontrolled Exposure				
300-1500	...	...	F/1500	30
1500-100,000	...	...	1.0	30

F = Frequency in MHz

### 2.2 MPE Calculation Formula

$$Pd = (Pout * G) / (4 * \pi * r^2)$$

where

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

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

### 2.3 Classification

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as **Mobile Device**.

## 3 Calculation Result Of Maximum Conducted Power

Frequency Band (MHz)	Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )
2412-2462	25.90	6.03	20	0.310	1
5180-5240	15.60	7.27	20	0.039	1
5745-5825	26.54	7.27	20	0.478	1

Note:

2.4GHz: Directional gain = 3.02dBi + 10log(2) = 6.03dBi

5.0GHz: Directional gain = 2.50dBi + 10log(3) = 7.27dBi

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