

RF Exposure Report

Report No.: SA141001C39G

FCC ID: PY314200276

Test Model: WNDR4300v2

Received Date: Jun. 25, 2015

Test Date: Jul. 01 ~ Sep. 18, 2015

Issued Date: Sep. 23, 2015

Applicant: NETGEAR INC.

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

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33383, TAIWAN (R.O.C.)





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Release Control Record

Issue No.	Description	Date Issued
SA141001C39G	Original release.	Sep. 23, 2015

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Report No.: SA141001C39G Reference No.: 150625C01



1 Certificate of Conformity

Product: N750 Wireless Dual Band Gigabit Router

Brand: NETGEAR

Test Model: WNDR4300v2

Sample Status: Engineering sample

Applicant: NETGEAR INC.

Test Date: Jul. 01 ~ Sep. 18, 2015

Standards: FCC Part 2 (Section 2.1091)

KDB 447498 D03

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: Sep. 23, 2015

Pettie Chen / Senior Specialist

Approved by: Sep. 23, 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 ²)	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/cm²

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 ²)	Limit (mW/cm²)
2412-2462	25.68	6.38	20	0.320	1
5180-5240	25.78	7.90	20	0.464	1
5745-5825	25.82	7.90	20	0.469	1

Note:

2.4GHz Band: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/2] = 6.38$ dBi 5GHz Band: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/3] = 7.9$ dBi

Conclusion:

The formula of calculated the MPE is:

CPD1 / LPD1 + CPD2 / LPD2 +etc. < 1

CPD = Calculation power density

LPD = Limit of power density

WLAN 2.4G + WLAN 5.0G = 0.320 + 0.469 = 0.789

Therefore, the maximum calculation of this situation is 0.789, which is less than the "1" limit.

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