

## RF Exposure Report

**Report No.:** SA150507D03

**FCC ID:** PD5-RV134W

**Test Model:** RV134W

**Received Date:** May 7, 2015

**Test Date:** May 21 ~ Jun. 9, 2015

**Issued Date:** Jul. 8, 2015

**Applicant:** Delta Networks, Inc.

**Address:** No. 252, Shang Ying Rd., Kuei San District, Taoyuan City 33341 Taiwan

**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.)



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### Release Control Record

Issue No.	Description	Date Issued
SA150507D03	Original release.	Jul. 8, 2015

## 1 Certificate of Conformity

**Product:** Wireless-AC VPN Router

**Brand:** CISCO

**Test Model:** RV134W

**Sample Status:** Engineering sample

**Applicant:** Delta Networks, Inc.

**Test Date:** May 21 ~ Jun. 9, 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:**

Jul. 8, 2015

Jessica Cheng / Senior Specialist

**Approved by :**



**Date:**

Jul. 8, 2015

Rex Lai / Assistant 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

$$P_d = (P_{out} * G) / (4 * \pi * r^2)$$

where

$P_d$  = power density in mW/cm<sup>2</sup>

$P_{out}$  = 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 26cm 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	29.69	6.74	26	0.5174	1
5180-5240	16.98	6.92	26	0.0289	1
5260-5320	23.98	6.92	26	0.1448	1
5500-5700	23.56	6.92	26	0.1315	1
5745-5825	23.58	6.92	26	0.1321	1

NOTE:

2.4GHz: Directional gain = 3.73dBi + 10log(2) = 6.74dBi

5.0GHz: Directional gain = 3.91dBi + 10log(2) = 6.92dBi

#### Conclusion:

The formula of calculated the MPE is:

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

CPD = Calculation power density

LPD = Limit of power density

WLAN 2.4GHz + WLAN 5GHz = 0.5174 + 0.1448 = 0.6622

Therefore the maximum calculation of this situation is 0.6622, which is less than the "1" limit.

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