

## RF Exposure Report

**Report No.:** SA170302D10

**FCC ID:** PD5-VCB5001LNW

**Test Model:** VCB-5001LN-W

**Received Date:** Mar. 27, 2016

**Test Date:** Apr. 17 ~ 25, 2017

**Issued Date:** Apr. 28, 2017

**Applicant:** Delta Networks, Inc.

**Address:** No.252, Shan 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
SA170302D10	Original release.	Apr. 28, 2017

## 1 Certificate of Conformity

**Product:** 2.4G WiFi Module

**Brand:** Delta, VidaGrid

**Test Model:** VCB-5001LN-W

**Sample Status:** Engineering sample

**Applicant:** Delta Networks, Inc.

**Test Date:** Apr. 17 ~ 25, 2017

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

KDB 447498 D01 General RF Exposure Guidance v06

IEEE C95.1-1992

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 :** Annie Chang , **Date:** Apr. 28, 2017  
Annie Chang / Senior Specialist

**Approved by :** Rex Lai , **Date:** Apr. 28, 2017  
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 20cm away from the body of the user.

So, this device is classified as **Mobile Device**.

### 2.4 Calculation Result Of Maximum Conducted Power

Max Tune Up Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )
17.15	4.2	20	0.0271	1

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