

## RF Exposure Report

**Report No.:** SA180130D06

**FCC ID:** PANRCO330

**Test Model:** WL-8211-V1

**Received Date:** Jan. 30, 2018

**Test Date:** Feb. 6 ~ 27, 2018

**Issued Date:** Mar. 13, 2018

**Applicant:** CC&C Technologies, Inc.

**Address:** 8F., No.150, Jian 1st Rd., Zhonghe Dist., New Taipei City 235, Taiwan  
(R.O.C.)

**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   |
|-------------|-------------------|---------------|
| SA180130D06 | Original release. | Mar. 13, 2018 |

## 1 Certificate of Conformity

**Product:** WLAN 11ac/11n 1x1 USB Adapter

**Brand:** CC&C

**Test Model:** WL-8211-V1

**Sample Status:** Engineering sample

**Applicant:** CC&C Technologies, Inc.

**Test Date:** Feb. 6 ~ 27, 2018

**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 RF characteristics under the conditions specified in this report.

**Prepared by :**



**Date:** Mar. 13, 2018

Annie Chang / Senior Specialist

**Approved by :**



**Date:** Mar. 13, 2018

Rex Lai / Associate Technical 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 |                               |                               |                                     |                        |
| 0.3-1.34                                              | 614                           | 1.63                          | (100)*                              | 30                     |
| 1.34-30                                               | 824/f                         | 2.19/f                        | (180/f <sup>2</sup> )*              | 30                     |
| 30-300                                                | 27.5                          | 0.073                         | 0.2                                 | 30                     |
| 300-1500                                              | ...                           | ...                           | f/1500                              | 30                     |
| 1500-100,000                                          | ...                           | ...                           | 1.0                                 | 30                     |

f = Frequency in MHz ; \*Plane-wave equivalent power density

### 2.2 MPE Calculation Formula

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

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**.

## 2.4 Calculation Result Of Maximum Conducted Power

| Frequency Band<br>(MHz) | Max Power<br>(dBm) | Antenna Gain<br>(dBi) | Distance<br>(cm) | Power Density<br>(mW/cm <sup>2</sup> ) | Limit<br>(mW/cm <sup>2</sup> ) |
|-------------------------|--------------------|-----------------------|------------------|----------------------------------------|--------------------------------|
| 2412-2462               | 22.96              | 0.1                   | 20               | 0.0402                                 | 1                              |
| 5180-5320               | 14.04              | 4.7                   | 20               | 0.0149                                 | 1                              |

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