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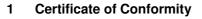


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| Release Control Record    |                                 |  |  |                              |
|---------------------------|---------------------------------|--|--|------------------------------|
| Issue No.                 | Description                     |  |  | Date Issued                  |
|                           |                                 |  |  |                              |
| Issue No.<br>SA140224C17L | Description<br>Original release |  |  | Date Issued<br>Apr. 19, 2016 |
|                           |                                 |  |  |                              |
|                           |                                 |  |  |                              |
|                           |                                 |  |  |                              |



| Product:       | Wireless a/b/g/n/AC Access Point        |  |  |
|----------------|---|--|--|
| Brand:         | riverbed                                |  |  |
| Test Model:    | : DTAFA                                 |  |  |
| Sample Status: | Engineering Sample                      |  |  |
| Applicant:     | Riverbed Technology Inc.                |  |  |
| Test Date:     | Mar. 13 ~ Mar. 20, 2016 (For 2.4G Band) |  |  |
|                | Jan. 19 ~ Feb. 02, 2016 (For 5G Band)   |  |  |
| Standards:     | FCC Part 2 (Section 2.1091)             |  |  |
|                | KDB 447498 D01 (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 : | Celine Chou<br>Celine Chou / Specialist | _, Date: | Apr. 19, 2016 |  |
|---------------|---|----------|---------------|--|
| Approved by : | Ken Liu / Senior Manager                | _, Date: | Apr. 19, 2016 |  |
|               |   |          |               |  |
|               |   |          |               |  |
|               |   |          |               |  |



## 2 RF Exposure

## 2.1 Limits for Maximum Permissible Exposure (MPE)

| Frequency Range<br>(MHz) | Electric Field<br>Strength (V/m)                      | Magnetic Field<br>Strength (A/m) | Power Density<br>(mW/cm <sup>2</sup> ) | Average Time<br>(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

 $Pd = power density in mW/cm^{2}$ 

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 30cm away from the body of the user. So, this device is classified as **Mobile Device**.

#### 3 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               | 28.69              | 8.77                  | 30               | 0.493                                  | 1                              |
| 5180-5240               | 27.35              | 9.77                  | 30               | 0.456                                  | 1                              |
| 5745-5825               | 24.94              | 9.77                  | 30               | 0.262                                  | 1                              |

Note:

2.4GHz Band: Directional gain = 4dBi + 10log(3) = 8.77dBi5.0GHz Band: Directional gain = 5dBi + 10log(3) = 9.77dBi

## CONCULSION:

Both of the WLAN 2.4G & WLAN 5G can transmit simultaneously, 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 = 0.493 + 0.456 = 0.949

Therefore, the maximum calculation of this situation is 0.949, which is less than the "1" limit.

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