Compliance Testing, LLC
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Test Report

Prepared for: Ubiquiti Networks, Inc

Model: B-DB-AC, Bullet

Description: Dual Band Networking Device

Serial Number: N/A

FCC ID: SWX-BDBAC

To

FCC Part 1.1310

Date of Issue: February 1, 2018

On the behalf of the applicant: **Ubiquiti Networks, Inc**
2580 Orchard Parkway
San Jose, CA 95131

Attention of: **Mark Feil**
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Project No: p1790008

Poona Saber
Project Test Engineer

Test Report Revision History

Revision	Date	Revised By	Reason for Revision
1.0	January 23, 2018	Poona Saber	Original Document
2.0	January 31, 2018	Poona Saber	Added a note on page 3

ILAC / A2LA

Compliance Testing, LLC, has been accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer joint ISO-ILAC-IAF Communiqué dated January 2009)

The tests results contained within this test report all fall within our scope of accreditation, unless below

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Testing Certificate Number: **2152.01**

FCC Site Reg. #349717

IC Site Reg. #2044A-2

Non-accredited tests contained in this report:

N/A

EUT Description
Model: B-DB-AC, Bullet
Description: Dual Band Networking Device
Firmware: N/A
Software: N/A
Serial Number: N/A
Additional Information: The Bullet AC (Model: B-DB-AC) is a dual band networking device that is powered over ethernet (passive POE, 24V) and provides an N-type antenna connection. It features dual-band AC mode operation in 5GHz and 2.4GHz bands, and a dedicated 2.4 GHz WiFi management radio for convenient device setup.

EUT Operation during Tests
Radio testing has been done conducted and radiated with controlling the device for continuous modulation transmission on low, middle and high channels with client's provided commands through telnet.

Note: Power is brought down one by one for other antennas mathematically so the highest EIRP for 4dBi antenna would be the same for other antennas as well.

Source Based Time Averaged Power Calculation

Average Power calculations

Average Power = Peak Power * duty-cycle%

Tuned Frequency (MHz)	Conducted Peak Output Power (dBm)	Duty Cycle (%)	Average Power (mW)
5740	22.9	100	195

MPE Evaluation

This is a portable device used in Uncontrolled Exposure environment.

Limits Uncontrolled Exposure 47 CFR 1.1310 Table 1, (B)	0.3-1.234 MHz:	Limit [mW/cm²] = 100
	1.34-30 MHz:	Limit [mW/cm²] = (180/f²)
	30-300 MHz:	Limit [mW/cm²] = 0.2
	300-1500 MHz:	Limit [mW/cm²] = f/1500
	1500-100,000 MHz	Limit [mW/cm²] = 1.0

Test Data

Test Frequency, MHz	5740
Power, Conducted, mW (P)	195
Antenna Gain Isotropic	4 dBi
Antenna Gain Numeric (G)	2.5
Antenna Type	Omni
Distance (R)	20 cm

$$S = \frac{P * G}{4\pi r^2}$$
Power Density (S) mw/cm²

Power Density (S) =0.096
Limit = (from above table) = 1

END OF TEST REPORT