



Compliance Testing, LLC

Previously Flom Test Lab

EMI, EMC, RF Testing Experts Since 1963

toll-free: (866) 311-3268

fax: (480) 926-3598

<http://www.ComplianceTesting.com>

info@ComplianceTesting.com

Test Report

Prepared for: Ubiquiti Networks, Inc

Models: PBE-5AC-Gen2

PBE-5AC-Omni-Gen2

Description: PowerBeam 5AC (G2)

PowerBeam 5AC Omni (G2)

Serial Number: NA

FCC ID: SWX-PBE5ACG2

To

FCC Part 1.1310

Date of Issue: February 16, 2017

On the behalf of the applicant:

Ubiquiti Networks, Inc

2580 Orchard Parkway

San Jose, CA 95131

Attention of:

Michael Taylor, Compliance Manager

Ph: (408) 942-3085

Email: compliance@ubnt.com

Prepared By

Compliance Testing, LLC

1724 S. Nevada Way

Mesa, AZ 85204

(480) 926-3100 phone / (480) 926-3598 fax

www.compliancetesting.com

Project No: p1710009

Poona Saber

Project Test Engineer

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Test Report Revision History

Revision	Date	Revised By	Reason for Revision
1.0	February 8, 2017	Poona Saber	Original Document

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

Please refer to <http://www.compliancetesting.com/labscope.html> for current scope of accreditation.

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: PBE-5AC-Gen2, PBE-5AC-Omni-Gen2

Description: PowerBeam 5AC (G2), PowerBeam 5AC Omni (G2)

Firmware: AirOS 8.0.1

Software: AirOS 8.0.1

Serial Number: N/A

Additional Information: The EUT has shown compliance to 15.407 in the 5 GHz band. This report is adding the capability of 2.4 GHz for installation uses.



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/cm ²] = 100
1.34-30 MHz:	Limit [mW/cm ²] = (180/f ²)
30-300 MHz:	Limit [mW/cm ²] = 0.2
300-1500 MHz:	Limit [mW/cm ²] = f/1500
1500-100,000 MHz	Limit [mW/cm ²] = 1.0

Test Data

Test Frequency, MHz	2412
Power, Conducted, mW (P)	37.41
Antenna Gain Isotropic	-1 dBi
Antenna Gain Numeric (G)	0.79
Antenna Type	PIFA
Distance (R)	20 cm

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

Power Density (S) =0.0058
Limit =(from above table) = 1

END OF TEST REPORT