

Compliance Testing, LLC

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http://www.ComplianceTesting.com info@ComplianceTesting.com

Test Report

Prepared for: Ubiquiti Networks, Inc

Model: LBE-5AC

Description: LightBeam AC 5

FCC ID: SWX-LBE5AC

Serial Number: N/A

To

FCC Part 1.1310

Date of Issue: September 9, 2015

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

E-mail: 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: p14a0031

Alex Macon

Project Test Engineer

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Test Report Revision History

Revision	Date	Revised By	Reason for Revision
1.0	August 17, 2015	Alex Macon	Original Document
2.0	September 9, 2015	Amanda Reed	Updated FCC ID

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: LBE-5AC

Description: LightBeam AC 5

Firmware: N/A Software: N/A Serial Number: N/A

Average Power calculations

Average Power = Peak Power * duty-cycle%

Tuned Frequency (MHz)	Conducted Peak Output Power (mW)	Duty Cycle (%)	Average Power (mW)
5800	275	100	275



MPE Evaluation

This is a **fixed/mobile** device used in uncontrolled /general population exposure environment.

Test Data

Test Frequency, MHz	5800
Power, Conducted, mW (P)	275
Antenna Gain Isotropic	23
Antenna Gain Numeric (G)	199.53
Antenna Type	Dish
Distance (R)	20

$S = \frac{P * G}{4\pi r^2}$			
Power Density (S) mw/cm ²	Power mW (P)	Numeric Gain (G)	Distance (r ²) cm
10.9165108229	275	199.53	20

Power Density (S) =	10.92	
Limit =(from above table) =	1.0	

The Power Density of 10.916 mw/cm² is over the limit of 1.0 mw/cm² for the uncontrolled /general population exposure environment so Minimum Safe Distance was calculated.

R=√(PG/4πL)			
Distance (R) cm	Power mW (P)	Numeric Gain (G)	Limit (L)
66.1	275	199.53	1.0

The minimum safe distance is 66.1 cm.

END OF TEST REPORT