

Compliance Testing, LLC

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Test Report

Prepared for: Ubiquiti Networks, Inc

Model: NBE-M5-16

Description: NanoBeam M5 16

Serial Number: N/A

FCC ID: SWX-NBE5M16

To

FCC Part 1.1310

Date of Issue: August 4, 2015

On the behalf of the applicant: Ubiquiti Networks, Inc

91 E. Tasman Drive San Jose, CA 95134

Attention of: Michael Taylor, Compliance Manager

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Prepared By
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Project No: p14a0021

Alex Macon

Project Test Engineer

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Test Report Revision History

Revision	Date	Revised By	Reason for Revision
1.0	June 26, 2015	Alex Macon	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: NBE-M5-16

Description: NanoBeam M5 16

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

Additional Information: The EUT is a 2x2 MIMO 802.11n radio

MPE Limit Calculations

Exposure Limit 1mW/cm²

Source Based Time Averaged Power Calculation

Average Power Calculations

Average Power = Peak Power * duty-cycle%

Tuned Frequency (MHz)	Conducted Peak Output Power (mW)	Duty Cycle (%)	Average Power (mW)
5265	24.0	100	24.0

MPE Evaluation

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

Test Data

Test Frequency, MHz	5265
Power, Conducted, mW (P)	24.0
Antenna Gain Isotropic	16
Antenna Gain Numeric (G)	39.81
Antenna Type	Point to point
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
	0.1900843546	24	39.81	20

Power Density (S) =	0.19
Limit =(from above table) =	1.0

MPE Limit Calculations

Exposure Limit 1mW/cm²

Source Based Time Averaged Power Calculation

Average Power Calculations

Average Power = Peak Power * duty-cycle%

Tuned Frequency (MHz)	Conducted Peak Output Power (mW)	Duty Cycle (%)	Average Power (mW)
5600	25.1	100	25.1

MPE Evaluation

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

Test Data

Test Frequency, MHz	5600
Power, Conducted, mW (P)	25.1
Antenna Gain Isotropic	16
Antenna Gain Numeric (G)	39.81
Antenna Type	Point to point
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
	0.1987965542	25.1	39.81	20

Power Density (S) =	0.2
Limit =(from above table) =	1.0

END OF TEST REPORT