



Compliance Testing, LLC

Previously Flom Test Lab

EMI, EMC, RF Testing Experts Since 1963

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Test Report

Prepared for: Ubiquiti Networks, Inc

Model: R5AC-Lite

Description: Rocket 5 AC Lite

FCC ID: SWX-R5ACL

To

FCC Part 1.1310

Date of Issue: April 7, 2015

On the behalf of the applicant:

Ubiquiti Networks, Inc
91 E. Tasman Drive
San Jose, CA 95134

Attention of:

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Project No: p14a0018

Alex Macon
Project Test Engineer

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Test Report Revision History

Revision	Date	Revised By	Reason for Revision
1.0	December 18, 2014	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: R5AC-Lite

Description: Rocket 5 AC Lite

Firmware: N/A

Software: N/A

S/N: N/A

Additional Information: None



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)
5200	346 mW	100%	346mW

MPE Evaluation

This is a fixed mobile device used in **Controlled** Exposure environment.

Limits Controlled Exposure 47 CFR 1.1310 Table 1, (A)

0.3-3.0 MHz	Limit [mW/cm ²] = 100
3.0-30 MHz	Limit [mW/cm ²] = (900/f ²)
30-300 MHz	Limit [mW/cm ²] = 1.0
300-1500 MHz	Limit [mW/cm ²] = f/300
1500-100,000 MHz	Limit [mW/cm ²] = 5

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	5200
Power, Conducted, mW (P)	346
Antenna Gain Isotropic	10dBi
Antenna Gain Numeric (G)	10
Antenna Type	Omni
Distance (R)	20 cm

$S = \frac{P * G}{4\pi r^2}$			
Power Density (S) mw/cm ²	Power mW (P)	Numeric Gain (G)	Distance (r ²) cm
	346	10	20

Power Density (S) =	0.688
Limit =(from above table) =	1.0

Note: For all antennas that exceed 10dBi the Power density remains the same since the output power must be reduced 1dB for every dB the antenna gain exceeds 10dBi.

END OF TEST REPORT