



# 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-PTMP

Description: Rocket 5AC PTMP

FCC ID: SWX-R5ACPTMP

To

FCC Part 1.1310

Date of Issue: April 29, 2015

On the behalf of the applicant:

Ubiquiti Networks, Inc  
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Attention of:

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Project No: p14c0010

**Alex Macon**  
Project Test Engineer

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All results contained herein relate only to the sample tested



### Test Report Revision History

Revision	Date	Revised By	Reason for Revision
1.0	April 29, 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:** R5AC-PTMP

**Description:** Rocket 5AC PTMP

**Firmware:** N/A

**Software:** N/A

**Serial Number:** N/A

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



**Average Power calculations**

Average Power = Peak Power \* duty-cycle%

<b>Tuned Frequency (MHz)</b>	<b>Conducted Peak Output Power (mW)</b>	<b>Duty Cycle (%)</b>	<b>Average Power (mW)</b>
5800	132	100	132



**MPE Evaluation**

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

<b>Limits Uncontrolled Exposure 47 CFR 1.1310 Table 1, (B)</b>	0.3-1.234 MHz	Limit [mW/cm <sup>2</sup> ] = 100
	1.34-30 MHz	Limit [mW/cm <sup>2</sup> ] = (180/f <sup>2</sup> )
	30-300 MHz	Limit [mW/cm <sup>2</sup> ] = 0.2
	300-1500 MHz	Limit [mW/cm <sup>2</sup> ] = f/1500
	1500-100,000 MHz	Limit [mW/cm <sup>2</sup> ] = 1.0

**Test Data**

Test Frequency, MHz	5800
Power, Conducted, mW (P)	132
Antenna Gain Isotropic	10
Antenna Gain Numeric (G)	10
Antenna Type	Omni
Distance (R)	20

$S = \frac{P * G}{4\pi r^2}$			
Power Density (S) mw/cm <sup>2</sup>	Power mW (P)	Numeric Gain (G)	Distance (r <sup>2</sup> ) cm
	132	10	20

Power Density (S) =	0.262
Limit =(from above table) =	1.0

**Note: Due to out of band emission limitations the highest EIRP occurs with the 10dBi Omni antenna. Therefore the power density cannot exceed 0.262mW/cm<sup>2</sup>**

END OF TEST REPORT