



# **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: NS-5ACL**

**Description: NanoStation 5AC Loco**

**Serial Number: NA**

**FCC ID: SWX-NS5ACL**

**To**

**FCC Part 1.1310**

**Date of Issue: March 1, 2017**

**On the behalf of the applicant:**

**Ubiquiti Networks, Inc  
2580 Orchard Parkway  
San Jose, CA 95131**

**Attention of:**

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Project No: p1710012**

**Poona Saber  
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      | 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:** NS-5AC-G2

**Description:** NanoStation 5AC (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 <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      | 2412   |
| Power, Conducted, mW (P) | 37.41  |
| Antenna Gain Isotropic   | -2 dBi |
| Antenna Gain Numeric (G) | 0.63   |
| Antenna Type             | Dish   |
| Distance (R)             | 20 cm  |

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

|                               |
|-------------------------------|
| Power Density (S) =0.0046     |
| Limit =(from above table) = 1 |

END OF TEST REPORT