



Compliance Testing, LLC

Previously Flom Test Lab

EMI, EMC, RF Testing Experts Since 1963

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Test Report

Prepared for: Blackboard, Inc.

Model: WR5000

Description: Security Access systems and as an attendance wall reader

Serial Number: N/A

FCC ID: TMEWR5000X012

To

FCC Part 1.1310

Date of Issue: January 18, 2018

On the behalf of the applicant:

Blackboard, Inc.
22601 N 19th Ave
Phoenix, AZ 85027

Attention of:

Tim Mattson, Sr. Engineer
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Prepared By
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Project No: p1770014

Alex Macon
Project Test Engineer

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Test Report Revision History

Revision	Date	Revised By	Reason for Revision
1.0	January 18, 2018	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: WR5000

Description: Security Access systems and as an attendance wall reader

Firmware: N/A

Software: N/A

Serial Number: N/A

Additional Information: The device incorporated an NFC transmitter at 13.56MHz and a pre-certified 2.4GHz module.



Average Power calculations

Average Power = Peak Power * duty-cycle%

Tuned Frequency (MHz)	Radiated Field Strength (dBuV/m)
13.56	36.83

$\text{dBuV} - 107 = \text{dBm}$

$36.83 - 107 = -70.17 \text{ dBm}$

Tuned Frequency (MHz)	Conducted Peak Output Power (mW)
13.56	9.62×10^{-8}

KDB 447498 D01

4.3.1

3) At frequencies below 100 MHz, the following may be considered for SAR test exclusion, and as illustrated in Appendix C:²⁸

- The power threshold at the corresponding test separation distance at 100 MHz in step 2) is multiplied by $[1 + \log(100/f_{\text{(MHz)}})]$ for *test separation distances* $> 50 \text{ mm}$ and $< 200 \text{ mm}$
- The power threshold determined by the equation in a) for 50 mm and 100 MHz is multiplied by $\frac{1}{2}$ for *test separation distances* $\leq 50 \text{ mm}$

The exclusion found in the table for Annex C at 10 Mhz and $< 50 \text{ mm}$ is 474mW.

The EUT's output power is well below this threshold

END OF TEST REPORT