



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: MRD5

Description: Hand-held device that reads mag-stripe and contactless cards and operates as a peripheral device to a host such as a smart phone or tablet.

FCC ID: TMEBBMRD5X010

To

FCC Part 1.1310

Date of Issue: March 16, 2015

On the behalf of the applicant:

Blackboard, Inc.
22601 N 19th Ave
Suite 130
Phoenix, AZ 85027

Attention of:

Tim Mattson, Sr. Engineer
Ph: (623) 476-1141
E-Mail: Tim.Mattson@blackboard.com

Prepared By
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Project No: p1520011

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 | March 10, 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: MRD5

Description: Hand-held device that reads mag-stripe and contactless cards and operates as a peripheral device to a host such as a smart phone or tablet

S/N: N/A

Additional Information: The EUT was placed in a continuous transmit mode during testing.



Test Data:

| Tuned Frequency (MHz) | Radiated Peak Output Power (mW) | Duty Cycle |
|-----------------------|---------------------------------|------------|
| 13.56 | .000028 | 100% |

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 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 | 13.56 |
| Power, Radiated, mW (P) | .000028 |
| Antenna Type | Printed circuit |
| 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 |
| | .000028 | 1 | 20 |

| |
|---|
| Power Density (S) =0.0000000557 |
| Limit =(from above table) = 0.9789 mW/cm ² |

END OF TEST REPORT