



# Compliance Testing, LLC

Previously Flom Test Lab

EMI, EMC, RF Testing Experts Since 1963

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## Test Report

Prepared for: EMS Technologies Honeywell Satcom

Model: HSD-MK2

Description: Aeronautical Satcom Transceiver

Serial Number: N/A

FCC ID: K6KHSD-MK2

To

FCC Part 1.1310

Date of Issue: July 6, 2016

On the behalf of the applicant:

EMS Technologies Honeywell Satcom  
400 Maple Grove Rd  
Ottawa, Ontario K2V 1B8

Attention of:

Steven Mills, Director  
Ph: (613)591-6040  
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Project No: p1640029

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	June 22, 2016	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:** HSD-MK2

**Description:** Aeronautical Satcom Transceiver

**Firmware:** N/A

**Software:** N/A

**Serial Number:** N/A



**Minimum Safe Distance Evaluation**

This is a mobile 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	1643.5
Power, Conducted, mW (P)	60000
Antenna Gain Isotropic	17 dBi
Antenna Gain Numeric (G)	50.12
Antenna Type	patch
Limit (L)	1.0

$R = \sqrt{(PG/4\pi L)}$	
Distance (R) cm	489.3cm

**The minimum safe distance is 489.3 cm**

END OF TEST REPORT