Compliance Testing, LLC
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Test Report

Prepared for: EMS Technologies Canada Ltd.

Model: A781-500

Description: Aeronautical Satcom Transceiver

Serial Number: N/A

FCC ID: K6KA781-MK4

To

FCC Part 1.1310

Date of Issue: May 9, 2016

On the behalf of the applicant:	**EMS Technologies Canada Ltd.** **400 Maple Grove Rd** **Ottawa, Ontario K2V 1B8** **Canada**
Attention of:	**Steven Mills** **(613)591-6040** **Steven.Mills2@Honeywell.com**

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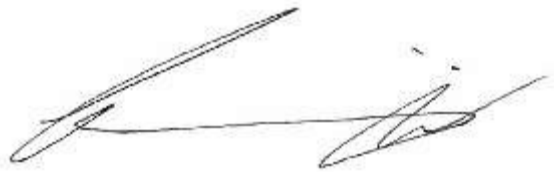

Alex Macon
Project Test Engineer

Test Report Revision History

Revision	Date	Revised By	Reason for Revision
1.0	March 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

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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: A781-500
Description: Aeronautical Satcom Transceiver
Firmware: N/A
Software: N/A
Serial Number: N/A

Source Based Time Averaged Power Calculation

Average Power calculations

Average Power = Peak Power * duty-cycle%

Tuned Frequency (MHz)	Conducted Peak Output Power (mW)	Duty Cycle (%)	Average Power (mW)
1643.5	46238	100	46238

Minimum Safe Distance Evaluation

This is a mobile device used in Uncontrolled Exposure environment.

Limits Controlled Exposure 47 CFR 1.1310 Table 1, (A)	0.3-3.0 MHz:	Limit [mW/cm²] = 100
	3.0-30 MHz:	Limit [mW/cm²] = (900/f²)
	30-300 MHz:	Limit [mW/cm²] = 1.0
	300-1500 MHz:	Limit [mW/cm²] = f/300
	1500-100,000 MHz	Limit [mW/cm²] = 5

Limits Uncontrolled Exposure 47 CFR 1.1310 Table 1, (B)	0.3-1.234 MHz:	Limit [mW/cm²] = 100
	1.34-30 MHz:	Limit [mW/cm²] = (180/f²)
	30-300 MHz:	Limit [mW/cm²] = 0.2
	300-1500 MHz:	Limit [mW/cm²] = f/1500
	1500-100,000 MHz	Limit [mW/cm²] = 1.0

Test Data

Test Frequency, MHz	1643.5
Power, Conducted, mW (P)	46238
Antenna Gain Isotropic	17 dBi
Antenna Gain Numeric (G)	50.11
Antenna Type	patch
Limit (L)	1.0

$R=\sqrt{(PG/4\pi L)}$	
Distance (R) cm	429.5cm

END OF TEST REPORT