



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:

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Test Report Revision History

Revision	Date	Revised By	Reason for Revision
1.0	March 22, 2016	Alex Macon	Original Document



ILAC / A2LA

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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/cm ²] = 100
3.0-30 MHz:	Limit [mW/cm ²] = (900/f ²)
30-300 MHz:	Limit [mW/cm ²] = 1.0
300-1500 MHz:	Limit [mW/cm ²] = f/300
1500-100,000 MHz	Limit [mW/cm ²] = 5

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	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=√(PG/4πL)
Distance (R) cm

END OF TEST REPORT