



Compliance Testing, LLC

Previously Flom Test Lab

EMI, EMC, RF Testing Experts Since 1963

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Test Report

Prepared for: L-3 Communications

Model: 228E5733-00

Description: AFIRS228S Satellite Data Unit

FCC ID: IB2AFIRS228S

Serial Number: 000904810

To

FCC Part 1.1310

Date of Issue: October 1, 2015

On the behalf of the applicant:

**L-3 Communications
P. O. Box 3041
Sarasota, FL 34232**

Attention of:

**Suzi Schulz, Program Manager
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**Prepared By
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Project No: p1580015**

**Alex Macon
Project Test Engineer**

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Test Report Revision History

Revision	Date	Revised By	Reason for Revision
1.0	September 3, 2015	Alex Macon	Original Document
2.0	October 1, 2015	Alex Macon	Updated limits to Uncontrolled use



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



Description

Dual channel Iridium satcom system used in aircrafts that incorporates Iridium 9523 and 9602.

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
1.34-30 MHz
30-300 MHz
300-1500 MHz
1500-100,000 MHz

Limit [mW/cm²] = 100
Limit [mW/cm²] = (180/f²)
Limit [mW/cm²] = 0.2
Limit [mW/cm²] = f/1500
Limit [mW/cm²] = 1.0

Test Frequencies, MHz	1618.725 – 1625.979
Power, Conducted, mW (P)	2070
Antenna Gain Isotropic	3dBi
Antenna Gain Numeric (G)	2.0
Antenna Type	
Distance (R)	20 cm

Power Density Calculations

Formula =
Power Density (S) =
Limit =

$S = PG / 4\pi R^2$
0.823
1.0

The Power Density is below the Limit.

The SAR measurement is not necessary.