



Compliance Testing, LLC

Previously Flom Test Lab

EMI, EMC, RF Testing Experts Since 1963

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Test Report

Prepared for: sci_Zone, Inc.

Model: LinkStar-STX3-ME

Description: Radio for Low Earth Orbit Communication

Serial Number: 0-2357850

FCC ID: 2ANKS-LINKSTAR-STX3

To

FCC Part 25

To

FCC Part 1.1310

Date of Issue: October 13, 2017

On the behalf of the applicant:

sci_Zone, Inc.
5108 Alberta Avenue
Rio Rancho, New Mexico 87144

Attention of:

Andrew Santangelo
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Prepared By
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Project No: p1780007

Poona Saber
Project Test Engineer

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Test Report Revision History

Revision	Date	Revised By	Reason for Revision
1.0	October 12, 2017	Poona Saber	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: LinkStar-STX3-ME

Description: LinkStar is a radio designed for use in space that interfaces with the GlobalStar Satellite network

Firmware: NA

Software: QuickSAT/VMS 4.0

Serial Number: 0-2357850



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)
1618.75	97.72	100	97.72



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	1618.75
Power, Conducted, mW (P)	97.72
Antenna Gain Isotropic	4.25 dBi
Antenna Gain Numeric (G)	2.66
Antenna Type	Patch
Distance (R)	20 cm

$S = \frac{P * G}{4\pi r^2}$
Power Density (S) mw/cm ²

Power Density (S) =0.051
Limit = (from above table) = 1