



# FCC Part 96.47 TEST REPORT

**FCC ID** : PKRISGFX31001  
**Equipment** : Indoor Router  
**Brand Name** : Inseego  
**Model Name** : FX3100-1  
**Marketing Name** : FX3100  
**Applicant** : Inseego Corp.  
9710 Scranton Road Suite 200, San Diego,,  
CA 92121  
**Manufacturer** : Inseego Corp.  
9710 Scranton Road Suite 200, San Diego,,  
CA 92121  
**Standard** : FCC Part 96.47  
**RF Interface** : 5G FR1 n48

The product was received on Mar. 17, 2023 and testing was performed from Mar. 20, 2023 to Mar. 21, 2023. We, Sporton International (USA) Inc., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International (USA) Inc., the test report shall not be reproduced except in full.

Approved by: Lance Tang

**Sporton International (USA) Inc.**  
1175 Montague Expressway, Milpitas, CA 95035



## Table of Contents

<b>History of this test report.....</b>	<b>3</b>
<b>Summary of Test Result.....</b>	<b>4</b>
<b>1 General Description .....</b>	<b>5</b>
1.1 Product Feature of Equipment Under Test.....	5
1.2 Modification of EUT .....	5
1.3 Testing Laboratory.....	5
1.4 Applicable Standards.....	5
<b>2 Test Configuration of Equipment Under Test .....</b>	<b>6</b>
2.1 Connection Diagram of Test System.....	6
<b>3 End User Device additional requirement .....</b>	<b>7</b>
3.1 Test Requirement .....	7
3.2 Test Procedure .....	7
3.3 Test Result.....	8
<b>4 Measuring Equipment List .....</b>	<b>12</b>
<b>Appendix A. Test Setup Photo</b>	



## History of this test report

Report No.	Version	Description	Issue Date
FG220902006A	01	Initial issue of report	Apr. 18, 2023

## Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3	96.47	End User Device additional requirement	Pass	-

**Conformity Assessment Condition:**

The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.

**Disclaimer:**

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.



# 1 General Description

## 1.1 Product Feature of Equipment Under Test

Product Feature
<b>Equipment Type</b> : Indoor Router
<b>General Specs</b> 4G-LTE, 5G-FR1, Wi-Fi 2.4GHz 802.11 b/g/n/ax, Wi-Fi 5GHz 802.11 a/n/ac/ax, and GNSS.
<b>Antenna Type</b> WWAN: Fixed Internal Antenna WLAN: Fixed Internal Antenna GPS / Glonass / BDS / Galileo: Fixed Internal Antenna

**Remark:** The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.

## 1.2 Modification of EUT

No modifications are made to the EUT during the entire test session.

## 1.3 Testing Laboratory

<b>Test Site</b>	Sporton International (USA) Inc.
<b>Test Site Location</b>	1175 Montague Expressway, Milpitas, CA 95035 TEL : 408 9043300
<b>Test Site No.</b>	<b>Sporton Site No.</b>
	TH01-CA
<b>Test Engineer</b>	Venkata Kondepudi
<b>Temperature</b>	21.8°C
<b>Relative Humidity</b>	43%

FCC Designation No.: US1250

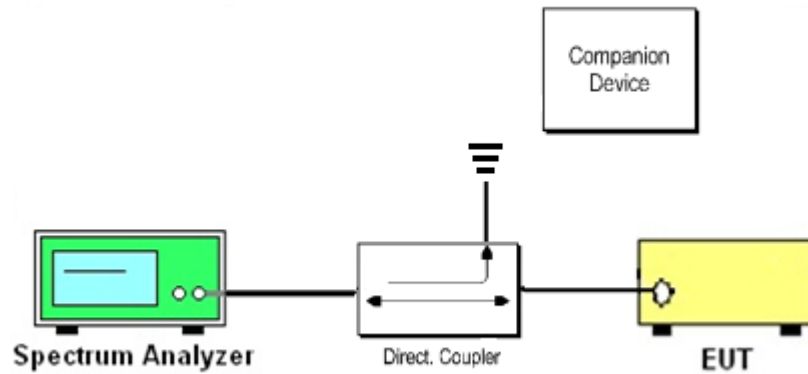
## 1.4 Applicable Standards

- ♦ FCC Part 96.47
- ♦ FCC KDB 940660 D01 Part 96 CBRS Eqpt v03
- ♦ WINNF-TS-0122-V1.0.2 CBRS CBSD Test Specification

**Remark:** All test items are verified and recorded according to the standards without deviation during the test.

## 2 Test Configuration of Equipment Under Test

### 2.1 Connection Diagram of Test System



The companion device is a certified NR CBSD (FCC ID: PIDAS2900)

### 3 End User Device additional requirement

#### 3.1 Test Requirement

FCC Part 96.47

(a) End User Devices may operate only if they can positively receive and decode an authorization signal transmitted by a CBSD, including the frequencies and power limits for their operation.

(1) An End User Device must discontinue operations, change frequencies, or change its operational power level within 10 seconds of receiving instructions from its associated CBSD.

#### 3.2 Test Procedure

The following procedure is following in accordance with WINNF-TS-0122-V1.0.2 CBRS CBSD Test Specification, using the certified Ruckus CBSD (FCC ID: PIDAS2900) as a companion device to present compliance with Part 96.47 requirements for End User Device (EUD):

1. Setup with frequency 3570-3590MHz and power level 34dBm/MHz
2. Enable CBSD service from Airspan ACP management
3. Check EUD Tx Frequency and power
4. Disable CBSD service from Airspan ACP management
  - a. Check if EUD stops transmitting within 10 seconds.
5. Setup with frequency 3670-3690MHz and power level 24dBm/MHz
6. Enable CBSD service from Airspan ACP management
7. Check EUD Tx Frequency and power
8. Disable CBSD service from Airspan ACP management
  - a. Check if EUD stops transmitting within 10 seconds.

### 3.3 Test Result

[Step 1] Setup at frequency 3570-3590MHz and power level 34dBm/MHz

[Step 3] Check EUD Tx Frequency and power



Date: 21.MAR.2023 14:33:27



[Step 4.a.] EUD stops transmission within 10 seconds after receiving instructions from its associated CBSD.



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[Step 5] Setup at 3670-3690MHz &amp; power level 24dBm/MHz

[Step 7] Check EUD Tx Frequency and power

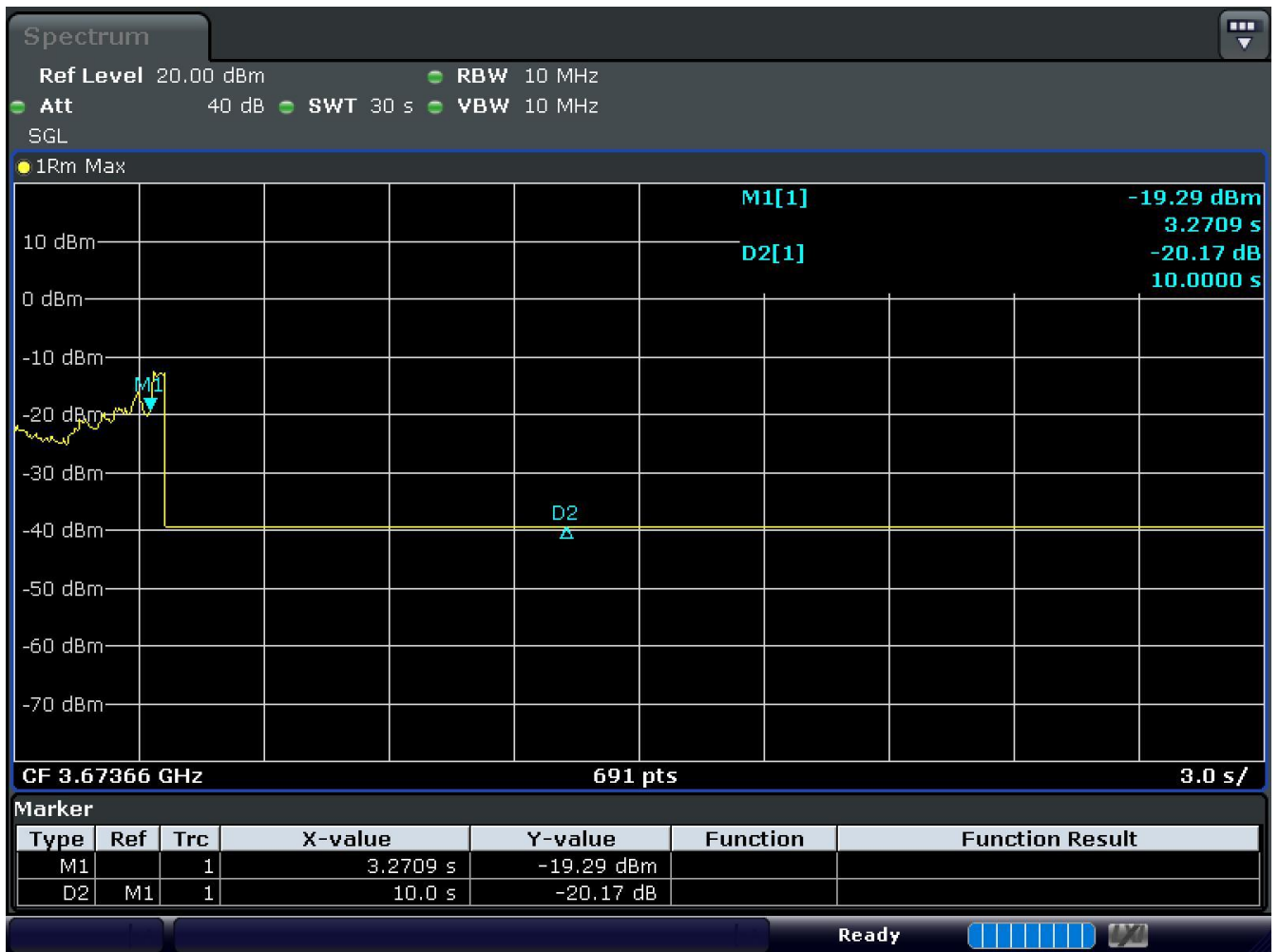


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[Step 8.a.] After changing the frequency and power level, the EUT discontinues operation, changes frequencies, or changes its operational power level within 10 seconds after receiving instructions from its associated CBSD.

Test result is a PASS.



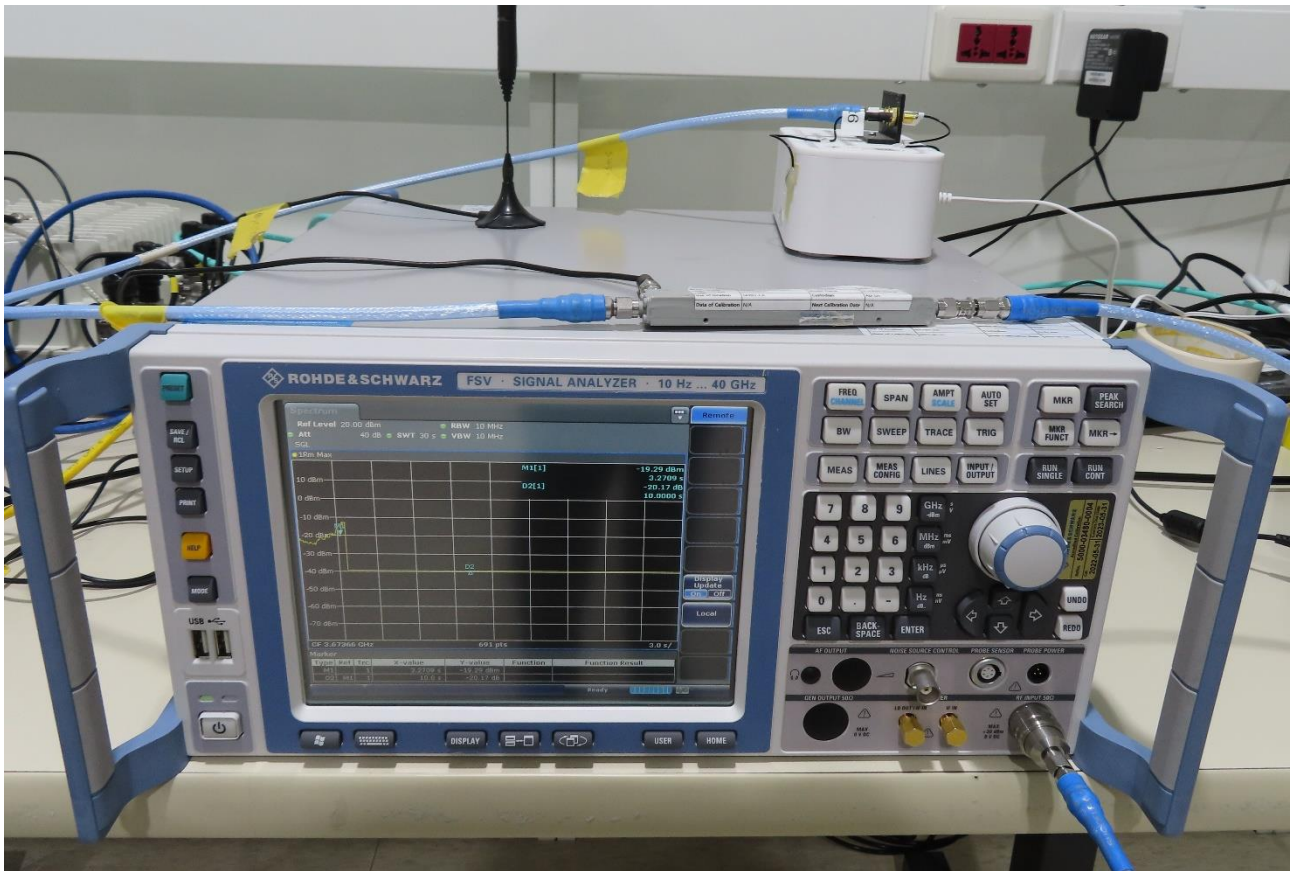
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## 4 Measuring Equipment List

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101545	10Hz~40GHz	May 31, 2022	Mar. 20, 2023~ Mar. 21, 2023	May 30, 2023	Conducted (TH01-CA)

## Appendix A Test Setup Photo



————THE END————