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Report No.: 2306RSU023-U1 Report Version: V01 Issue Date: 2023-07-07

# RF MEASUREMENT REPORT

FCC ID: 2AJYU-8XN0005

**Application:** SIMCom Wireless Solutions Limited

**Product:** SIMCom Module

Model No.: SIM8260G-M2

Brand Name: SIMCom

FCC Rule Part(s): Part 96.47

**Result:** Complies

**Receved Date:** 2023-06-14

**Test Date:** 2023-06-16

Reviewed By:

Sunny Sun

Approved By:

Robin Wu





The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.26-2015. Test results reported herein relate only to the item(s) tested.

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Template Version:0.0 1 of 13



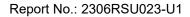
# **Revision History**

Report No.	Version	Description	Issue Date	Note
2306RSU023-U1	V01	Initial Report	2023-07-07	Valid



# CONTENTS

Des	cription		Page
1.	Genera	l Information	4
	1.1.	Applicant	4
	1.2.	Manufacturer	4
	1.3.	Testing Facility	4
	1.4.	Product Information	5
	1.5.	Test Methodology	5
2.	Test Co	onfiguration	6
	2.1.	Test System Connection Diagram	6
	2.2.	Test Environment Condition	6
3.	Measui	ring Instrument	7
4.	Decisio	on Rules and Measurement Uncertainty	8
	4.1.	Decision Rules	8
	4.2.	Measurement Uncertainty	8
5.	Test Re	esult	9
	5.1.	Summary	9
	5.2.	End User Device Additional Requirement (CBSD Protocol) Measurement	10
	5.2.1.	Test Limit	10
	5.2.2.	Test Procedure	10
	5.2.3.	Test Setting	10
	5.2.4.	Test Result	11
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## 1. General Information

# 1.1. Applicant

SIMCom Wireless Solutions Limited

SIMCom Headquarters Building, Building 3, No.289 Linhong Road, Changning District, Shanghai, China

## 1.2. Manufacturer

SIMCom Wireless Solutions Limited

SIMCom Headquarters Building, Building 3, No.289 Linhong Road, Changning District, Shanghai, China

# 1.3. Testing Facility

$\boxtimes$	Test Site - MRT S	Test Site - MRT Suzhou Laboratory						
	Laboratory Location (Suzhou - Wuzhong)  D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China							
	Laboratory Location (Suzhou - SIP)							
	4b Building, Liando U Valley, No.200 Xingpu Rd., Shengpu Town, Suzhou Industrial Park, China							
	Laboratory Accre	editations						
	A2LA: 3628.01		CNAS	S: L10551				
	FCC: CN1166		ISED:	CN0001				
	VCCI:	□R-20025	□G-20034	□C-20020	□T-20020			
	VCCI.	□R-20141	□G-20134	□C-20103	□T-20104			
	Test Site - MRT Shenzhen Laboratory							
	Laboratory Loca	tion (Shenzhen)						
	1G, Building A, Ju	ınxiangda Building,	Zhongshanyuan Roa	nd West, Nanshan Dis	strict, Shenzhen, China			
	Laboratory Accreditations							
	A2LA: 3628.02		CNAS	: L10551				
	FCC: CN1284		ISED:	CN0105				
	Test Site - MRT Taiwan Laboratory							
	Laboratory Location (Taiwan)							
	No. 38, Fuxing 2nd Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)							
	Laboratory Accre	editations						
	TAF: L3261-1907	25						
	FCC: 291082, TW	/3261	ISED:	TW3261				



### 1.4. Product Information

Product Name	SIMCom Module
Model No.	SIM8260G-M2
IMEI	860077060000004
Supply Voltage	3.135 ~ 4.4VDC, Nominal 3.8VDC
NR Band	n48
TDD Tx Frequency Range	NR n48: 3550 ~ 3700 MHz
TDD R <sub>x</sub> Frequency Range	NR n48: 3550 ~ 3700 MHz
Modulation Type	DL up to 256QAM, UL up to 64QAM

### Notes:

- 1. The information of EUT was provided by the manufacturer, and the accuracy of the information shall be the responsibility of the manufacturer.
- 2. Device category: End User Device.

### 1.5. Test Methodology

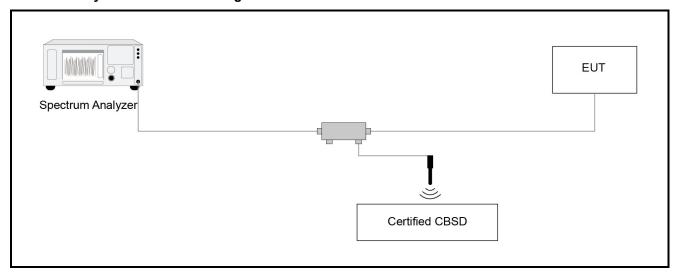
According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC 47 CFR Part 96.47
- FCC KDB 940660 D01 Part 96 CBRS v03
- WINNF-TS-0122 V1.0.2: Test and Certification for Citizens Broadband Radio Service (CBRS);
   Conformance and Performance Test Technical Specification; CBSD/DP as Unit Under Test (UUT)



# 2. Test Configuration

# 2.1. Test System Connection Diagram



### 2.2. Test Environment Condition

Ambient Temperature	15 ~ 35°C	
Relative Humidity	20 ~ 75%RH	



# 3. Measuring Instrument

RF measurement equipment

Instrument Name	Manufacturer	Model No.	Asset No.	Cali. Interval	Cal. Due Date	Test Site
Thermohygrometer	testo	608-H1	MRTSUE06362	1 year	2024-02-14	WZ-SR6
Shielding Room	HUAMING	WZ-SR6	MRTSUE06443	N/A	N/A	WZ-SR6
Signal Analyzer	Keysight	N9020B	MRTSUE06583	1 year	2023-10-08	WZ-SR6
Attenuator	MVE	MVE2213	MRTSUE11077	1 year	2024-06-08	WZ
Directional Coupler	narda	4226-10	MRTSUE06562	1 year	2023-10-27	WZ

### Certified CBSD Information

Instrument	Manufacturer	Type No.	FCC ID
n48 Base Station	Nokia	AZQC	2AD8UAZQCRH1



# 4. Decision Rules and Measurement Uncertainty

### 4.1. Decision Rules

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4: 2012 Clause 8.2. (Measurement uncertainty is not taken into account when stating conformity with a specified requirement.)

### 4.2. Measurement Uncertainty

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k = 2.

### **Conducted Test**

Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)):

0.78dB



## 5. Test Result

# 5.1. Summary

FCC Part Section(s)	Test Description	Test Condition	Test Result
06.47	End User Device Additional	Conducted	Dage
96.47	Requirements (CBSD Protocol)	Conducted	Pass

**Note:** The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.



### 5.2. End User Device Additional Requirement (CBSD Protocol) Measurement

#### 5.2.1. Test Limit

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

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

#### 5.2.2. Test Procedure

KDB 940660 D01 v03, WINNF-TS-0122 V1.0.2

#### 5.2.3. Test Setting

The EUT was connected via an RF cable to a certified CBSD (Nokia solutions and Networks, OY. FCC ID:2AD8UAZQCRH1) and spectrum analyzer. The following procedure is performed by applying WINNF-TS-0122 CBRS CBSD Test Specification.

#### Step 1:

- a. Setup WINNF.PT.C.HBT.1 with 3570 ~ 3590MHz and power level at 24 dBm/MHz.
- b. Enable Smallcell service from EPC Manage Tool.
- c. Check EUT Tx frequency and power.
- d. Disable Smallcell service from EPC Manage Tool and check EUT stop transmission within 10s.

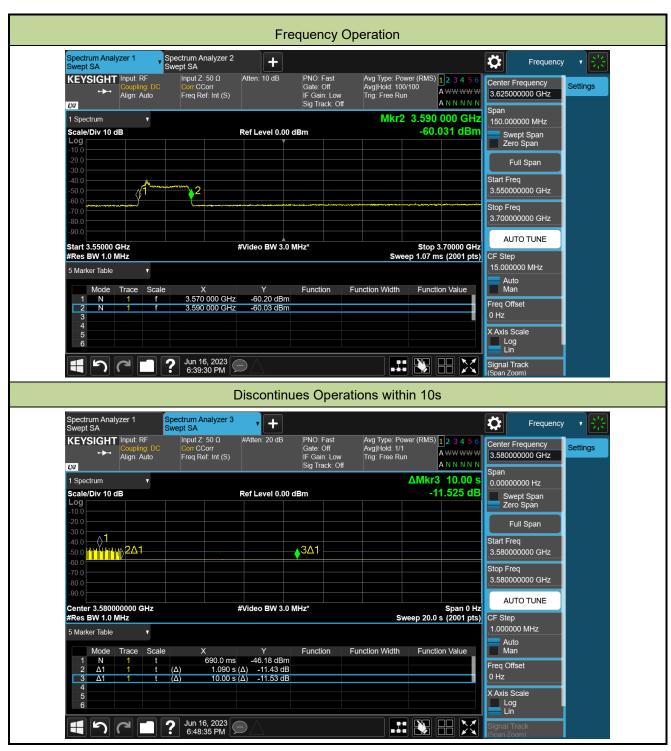
### Step 2:

- a. Setup WINNF.PT.C.HBT.1 with 3670 ~ 3690MHz and power level at 17 dBm/MHz.
- b. Enable Smallcell service from EPC Manage Tool.
- c. Check EUT Tx frequency and power.
- d. Disable Smallcell service from EPC Manage Tool and check EUT stop transmission within 10s.

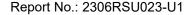


#### 5.2.4. Test Result

Test Site	WZ-SR6	Test Engineer	Jonezhang
Test Date	2023-06-16	Test Band	CBSD transmit at 3580MHz
			(20MHz BW), 24 dBm/MHz



- Marker 1: CBSD sends instructions to discontinue NR operations.
- Marker 2: Elapsed time from CBSD sending instructions to EUT stopped.
- Marker 3: 10 seconds elapsed time from CBSD sending instructions.





Test Site	WZ-SR6	Test Engineer	Jonezhang
Test Date	2023-06-16	Test Band	CBSD transmit at 3680MHz
			(20MHz BW), 17 dBm/MHz



Marker 1: CBSD sends instructions to discontinue NR operations.

Marker 2: Elapsed time from CBSD sending instructions to EUT stopped.

Marker 3: 10 seconds elapsed time from CBSD sending instructions.



# Appendix A - Test Setup Photograph

Refer to "2306RSU023-UT" file.