

TEST REPORT

REPORT NUMBER: B19W50598-EMC_Rev4

ON

Type of Equipment: LTE /HSPA/GSM/GNSS MODULE

Type of Designation: SIM7600G/ SIM7600G miniPCIE

Manufacturer: Simcom Wireless Solutions Limited

ACCORDING TO

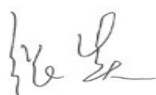
**Subpart B, PART 15, RADIO FREQUENCY DEVICES , January 8, 2020
ICE-003, Issue 6 , April 2017**

Chongqing Academy of Information and Communications

Month date, year

March, 12, 2020

Signature

A handwritten signature in black ink, appearing to be 'Zhang Yan', is written over a light gray grid background.

**Zhang Yan
Director**

Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of China Telecommunication Technology Labs.

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Revision Version

Report Number	Revision	Date	Memo
B19W50598	V1.0	2019-12-08	--
B19W50598	V2.0	2020-03-05	Modified the address of the applicant and updated the test data
B19W50598	V3.0	2020-03-10	updated the test data
B19W50598	V4.0	2020-03-12	updated the test data



FCC ID: 2AJYU-8PYA004

Report Date: 2020-03-12

Test Firm Name: Chongqing Academy of Information and Communications

FCC Registration Number CN1239

Statement

The measurements shown in this report were made in accordance with the procedures described on test pages. All reported tests were carried out on a sample equipment to demonstrate limited compliance with FCC CFR 47 Part 15 and ICE-003 Issue 5. The sample tested was found to comply with the requirements defined in the applied rules.

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1 General Information

1.1 Notes

All reported tests were carried out on a sample equipment to demonstrate limited compliance with FCC CFR 47 Part15 and ICES-003 Issue 6.

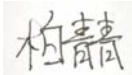
The test results of this test report relate exclusively to the item(s) tested as specified in section 2.

The following deviation from, additions to, or exclusions from the test specifications have been made. See Annex C.

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1.2 Testers

Name: Bai Qingqing
Position: Engineer
Department: Department of EMC test
Date: 2020-02-14
Signature: 

Editor of this test report:

Name: Xiao Yu
Position: Engineer
Department: Department of EMC test
Date: 2020-03-12
Signature: 

Technical responsibility for area of testing:

Name: Zhang Yan
Position: Manager
Department: Department of EMC test
Date: 2020-03-12
Signature: 

1.3 Testing Laboratory information

1.3.1 Location

Name: Chongqing Academy of Information and Communications

Address: Building B, Technology Innovation Center, No.8, Yuma Road, Chayuan New Area, Nan'an District, Chongqing, People's Republic of China, 401336

Tel: +86 23 88069965

Fax: +86 23 88608777

Email: liqiao@caict.ac.cn

1.3.2 Details of accreditation status

Accredited by: --

Registration number: --

Standard: --

1.3.3 Test location, where different from section 1.3.1

Name: -----

Address: -----

1.4 Details of applicant or manufacturer

1.4.1 Applicant

Name: Simcom Wireless Solutions Limited.
Address: No.633, Jinzhong Road, Shanghai, P.R.China
Country: China
Telephone: +021-32523020
Fax: +021-32523020
Contact: Yang.liang
Telephone: --
Email: --

1.4.2 Manufacturer (if different from applicant in section 1.4.1)

Name: --
Address: --
Country: --

2 Test Item

2.1 General Information

Manufacturer: Simcom Wireless Solutions Limited.
Name: LTE /HSPA/GSM/GNSS MODULE
Model Number: SIM7600G/ SIM7600G miniPCIE
IMEI: 868822040004135
Production Status: Product
Receipt date of test item: 2019-11-11

2.2 Outline of EUT

The EUT, SIM7600G/ SIM7600G miniPCIE is a Product supporting GSM 850, PCS 1900, WCDMA BAND 2, Band 3, Band 5, FDD-LTE Band 2, Band 4, Band 7, Band 12, Band 13, Band 25, Band 26, Band 66, TDD-LTE Band 41.

2.3 Modifications Incorporated in EUT

The EUT has not been modified from what is described by the brand name and unique type identification stated above.

2.4 Equipment Configuration

Equipment configuration list:

Item	Generic Description	Manufacturer	Type	Serial No.	HW Version	SW Version
A	Product	Simcom Wireless Solutions Limited.	SIM7600G/ SIM7600G miniPCIE	D10619352 889A45	V1.02	SIM760 0M21-A _V2.0

2.5 Other Information

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3 Summary of Test Results

A brief summary of the tests carried out is shown as following.

Configuration1		
Specification Clause	Name of Test	Result
15.109(a)/ ICE-003 Issue 5 §6	Radiated Emission	Pass

Test equipment Used:						
Number	Description	Manufacturer	Model Number	Serial Number	Cal Due	State
1	EMI Test Receiver	R/S	ESU	100367	2021-03-01	Normal
2	Ultra Broadband Antenna	R/S	VULB 9163	vulb9163—544	2020-11-24	Normal
3	Double-Ridged Horn Antenna	R/S	HF907	100357	2021-06-22	Normal
4	Fully-Anechoic Chamber	ETS	11.8m×6.5m×6.3m	--	2020-08-20	Normal

4 Test Results

4.1 Radiated Emission

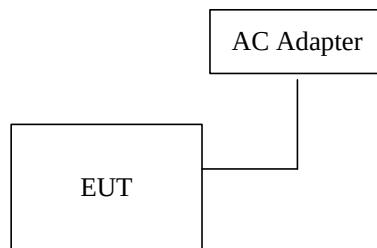
Specifications:	15.109(a)/ ICE-003 Issue 5 §6
Date of Tests	2020-02-14
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa
Operation Mode	Normal
Test Results:	Pass

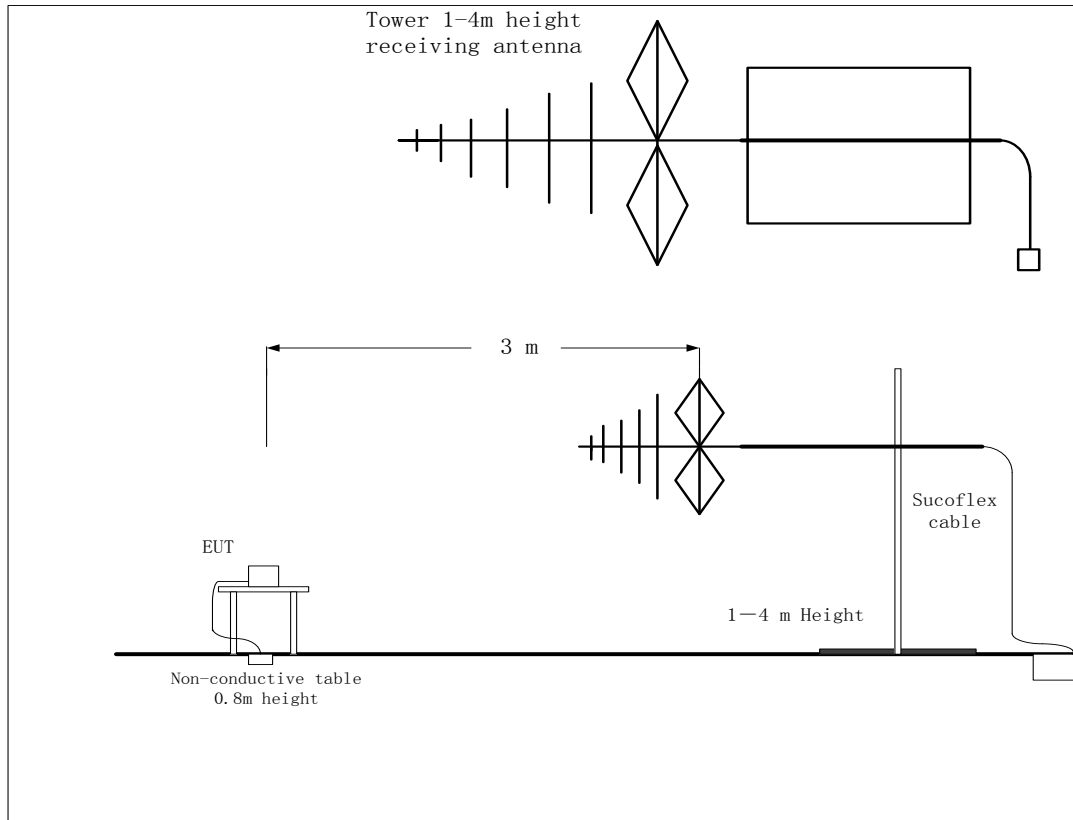
Limit Level Construction:

Frequency Range (MHz)	Quasi-Peak (dBuV/m)
30-88	40
88-216	43.5
216-960	46
Above 960	54

Frequency Range (MHz)	Peak (dBuV/m)	Average (dBuV/m)
Above 1000	74	54

EUT Setup:



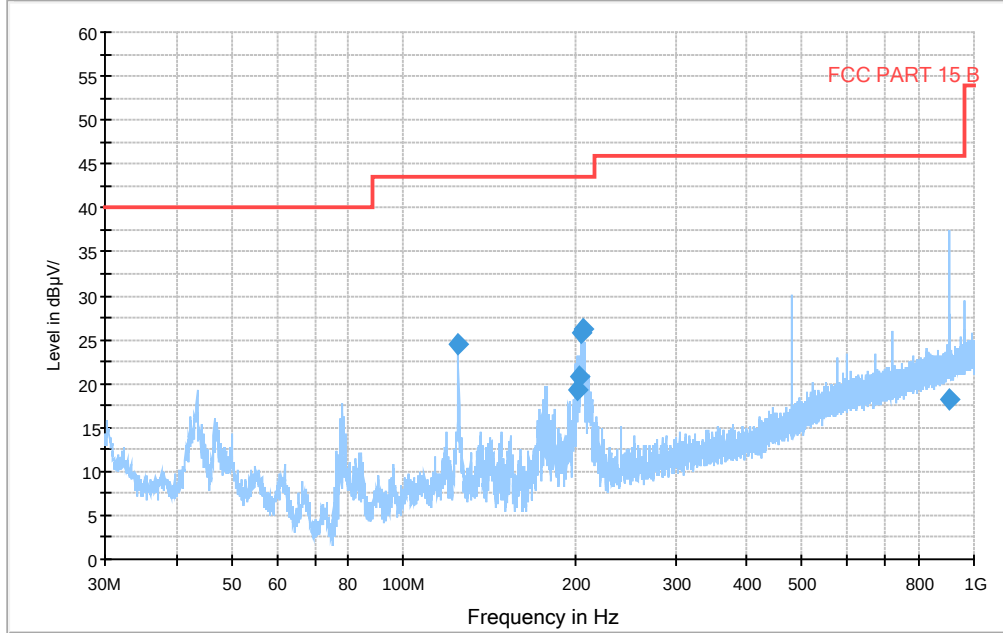
Test Setup:**Test Method:**

For 30-1000MHz, the EUT was placed on the top of a rotating 0.8-m table above the ground at a semi-anechoic chamber. The distance between the EUT and the received antenna was 3 meters. The table was rotated 360 degree and the received antenna mounted on a variable-height antenna tower was varied from 1m to 4m to find the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna were set during the measurement. Tested in accordance with the procedures of ANSI C63.4-2014, section 8.3.

For 1000-18000MHz, the maximal emission value was acquired by adjusting the antenna height, and the table was rotated 360 degree to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna were set during the measurement.

Test Data

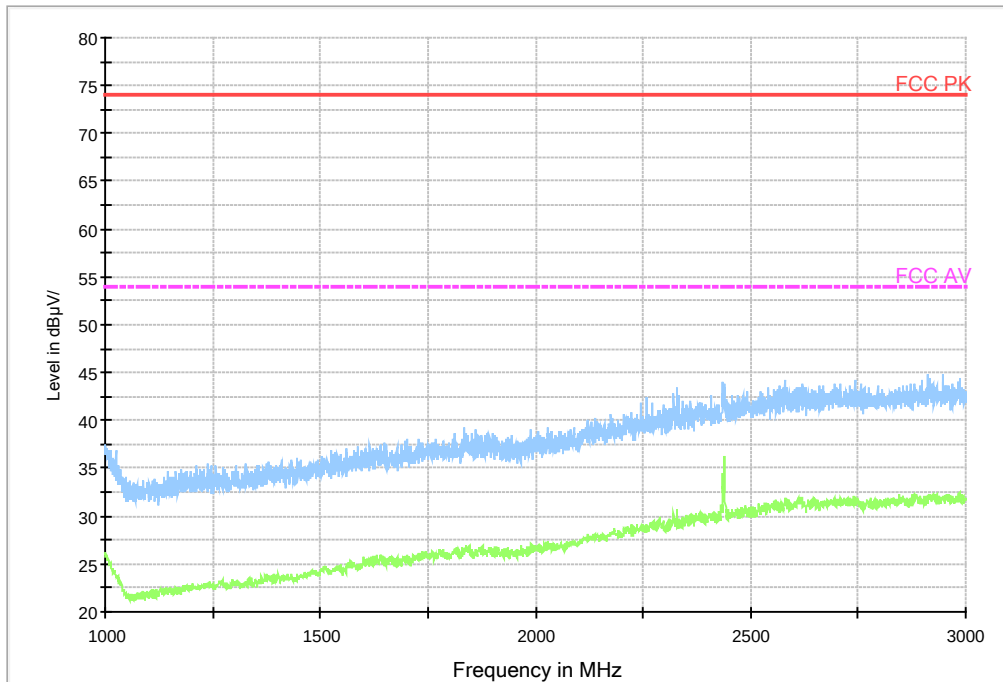
RE 30MHz-1GHz



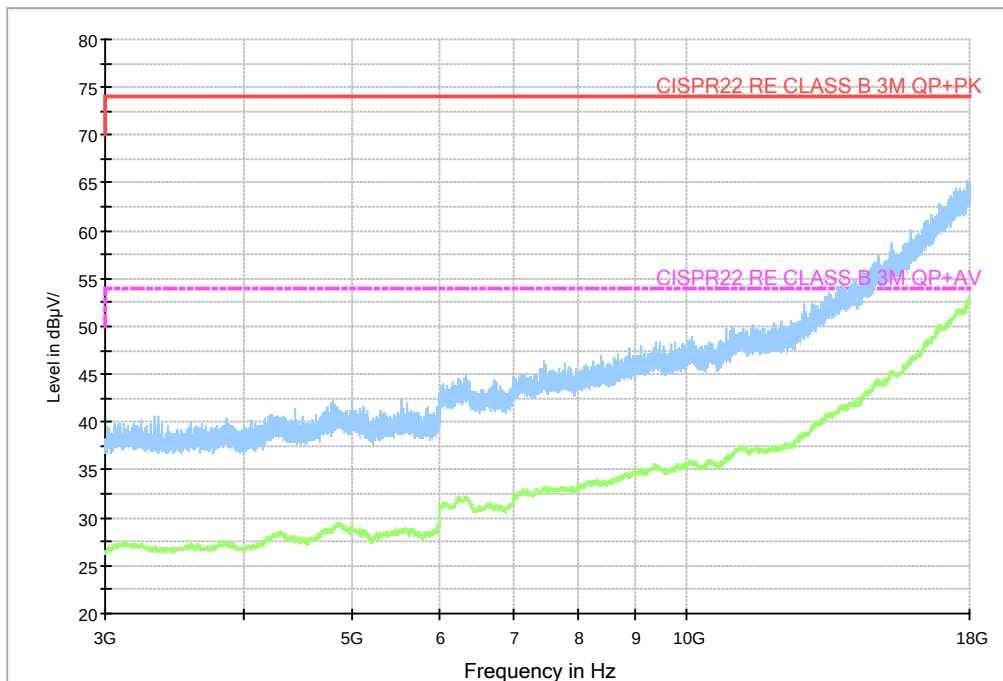
— FCC PART 15 B
 — Preview Result 1-PK+
 ◆ Final Result 1-QPK

Frequency MHz	QP dBuV/m	Mea.Time ms	RBW KHz	Height cm	Polarity	Azimuth deg	Margin dB	Limit dBuV/m
125.011500	24.4	5000.0	120.000	115.0	H	270.0	19.1	43.5
201.353500	19.4	5000.0	120.000	200.0	H	90.0	24.1	43.5
203.384500	20.7	5000.0	120.000	200.0	H	90.0	22.8	43.5
205.521500	25.8	5000.0	120.000	115.0	H	90.0	17.7	43.5
206.785500	26.2	5000.0	120.000	115.0	H	90.0	17.3	43.5
905.525000	18.2	5000.0	120.000	115.0	H	180.0	27.8	46.0

RE 1GHz-3GHz



RE 3GHz-18GHz



Test photo

See the Pic1~2 in document" SIM7600G/ SIM7600G miniPCIE _EMC Test Setup Photos".

Annex A External Photos

See the document" SIM7600G/ SIM7600G miniPCIE -External Photos".

Annex B Internal Photos

See the document" SIM7600G/ SIM7600G miniPCIE -Internal Photos".

ANNEX C Deviations from Prescribed Test Methods

No deviation from Prescribed Test Methods.

_____ **The End of this Report** _____