Chongqing Academy of Information and Communcations

TEST REPORT

REPORT NUMBER: B19W50601-EMC_Rev1

ON

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

Type of Designation: SIM7600G-H/ SIM7600G-H miniPCIE

Manufacturer: SIMCom Wireless Solutions Limited

ACCORDING TO

Subpart B, PART 15, RADIO FREQUENCY DEVICES , Aguest 24, 2018
ICE-003, Issue 6 , April 2017

Chongqing Academy of Information and Communcations

Month date, year
December, 3, 2019

Signature

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.

FCC ID:	2AJYU-8PYA003
Report Date:	2019-12-03
Test Firm Name:	Chongqing Academy of Information and Communcations
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.

CONTENTS

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.

Chongqing Academy of Information and Communcations authorizes the applicant or manufacturer (see section 1.4) to reproduce this report provided, and the test report may only be reproduced or published in full. Reproduction or publication of extracts from the report requires the prior written approval of Chongqing Academy of Information and Communcations Mr. Zhang Yan.

Any use which a third party makes of this report, or any reliance on or decisions to be made based on it, are the responsibility of such third parties. Chongqing Institute of Telecommunications accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report.

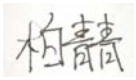
1.2 Testers

Name: Bai Qingqing

Position: Engineer

Department: Department of EMC test

Date: 2019-11-11-2019-11-22

Signature: 

Editor of this test report:

Name: Xiao Yu

Position: Engineer

Department: Department of EMC test

Date: 2019-12-03

Signature: 

Technical responsibility for area of testing:

Name: Zhang Yan

Position: Manager

Department: Department of EMC test

Date: 2019-12-03

Signature: 

1.3 Testing Laboratory information

1.3.1 Location

Name:	Chongqing Academy of Information and Communcations
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

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-H/ SIM7600G-H miniPCIE
IMEI:	868822040007567
Production Status:	Product
Receipt date of test item:	2019-11-11

2.2 Outline of EUT

The EUT, SIM7600G-H/ SIM7600G-H 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	Shanghai Simcom Wireless Solutions Limited.	SIM7600G-H/ SIM7600G-H miniPCIE	D10619352889C7B	V1.02	SIM7600M22_V2.0

2.5 Other Information

--

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	2020-03-01	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
5	AMN	R/S	ENV216	101128	2020-03-02	Normal
6	EMI Test Receiver	R/S	ESCI 9KHz-3GHZ	101214	2020-03-02	Normal

4 Test Results

4.1 Radiated Emission

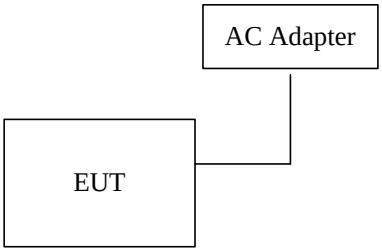
Specifications:	15.109(a)/ ICE-003 Issue 5 §6
Date of Tests	2019-11-11-2019-11-22
Test conditions:	Ambient Temperature:15℃-35℃ Relative Humidity:30%-60% Air pressure: 86-106kPa
Operation Mode	Normal
Test Results:	Pass

Limit Level Construction:

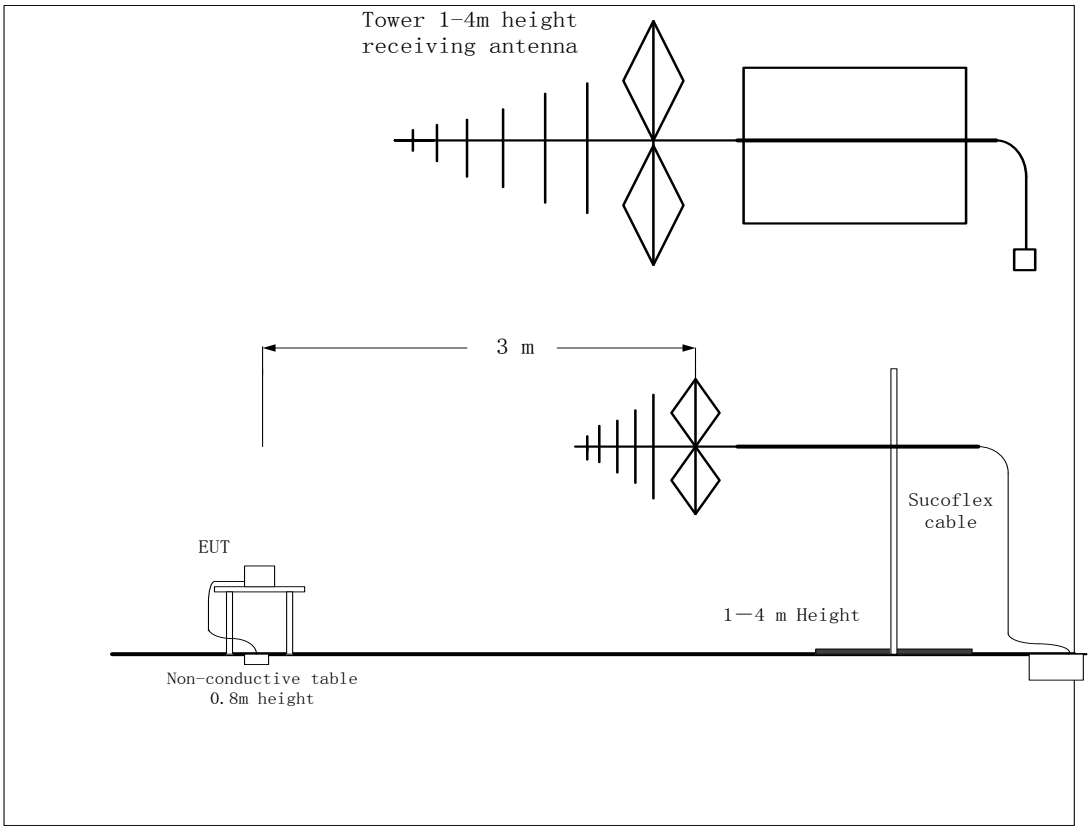
Frequency Range (MHz)	Quasi-Peak (dBuV/m)
30-88	40
88-216	43.5
216-960	46
Above 960	54

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

EUT Setup:



Test Setup:



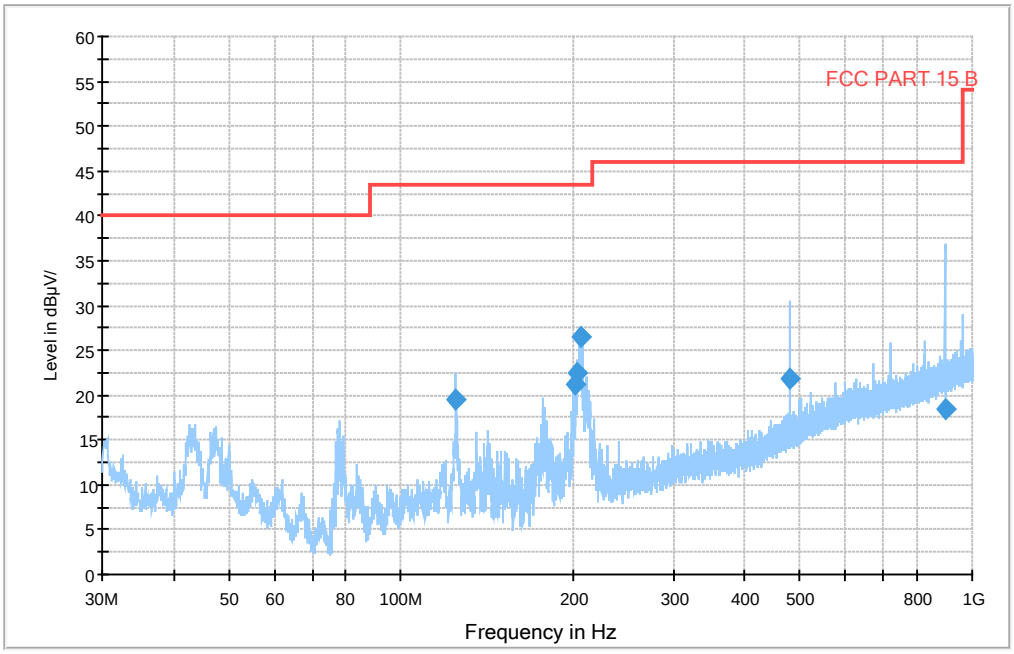
Test Method:

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.

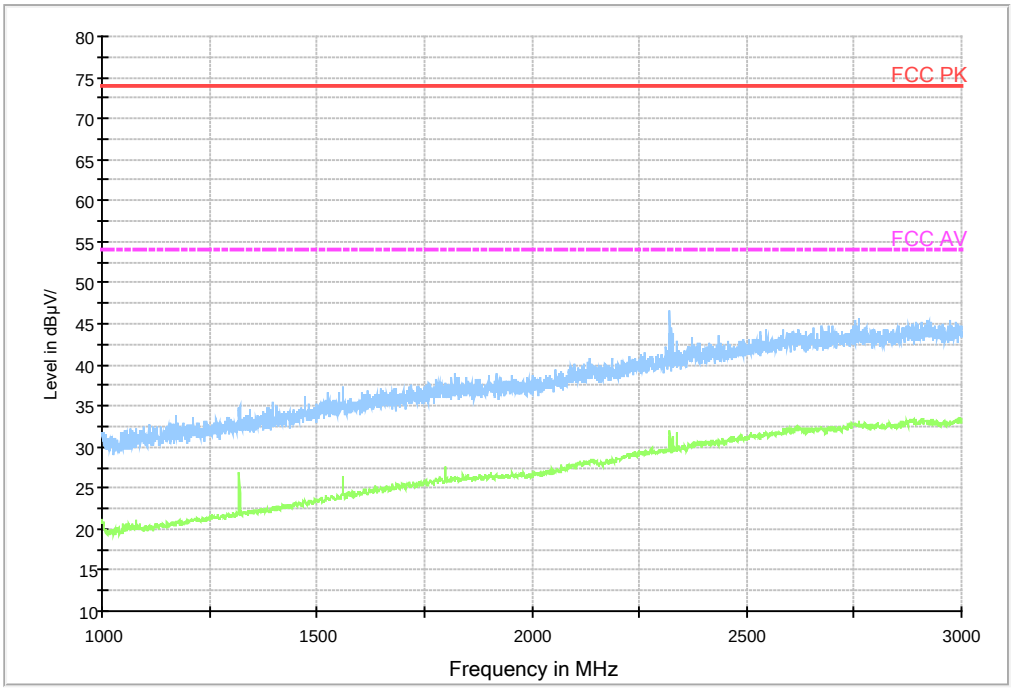
Test Data

RE 30MHz-1GHz

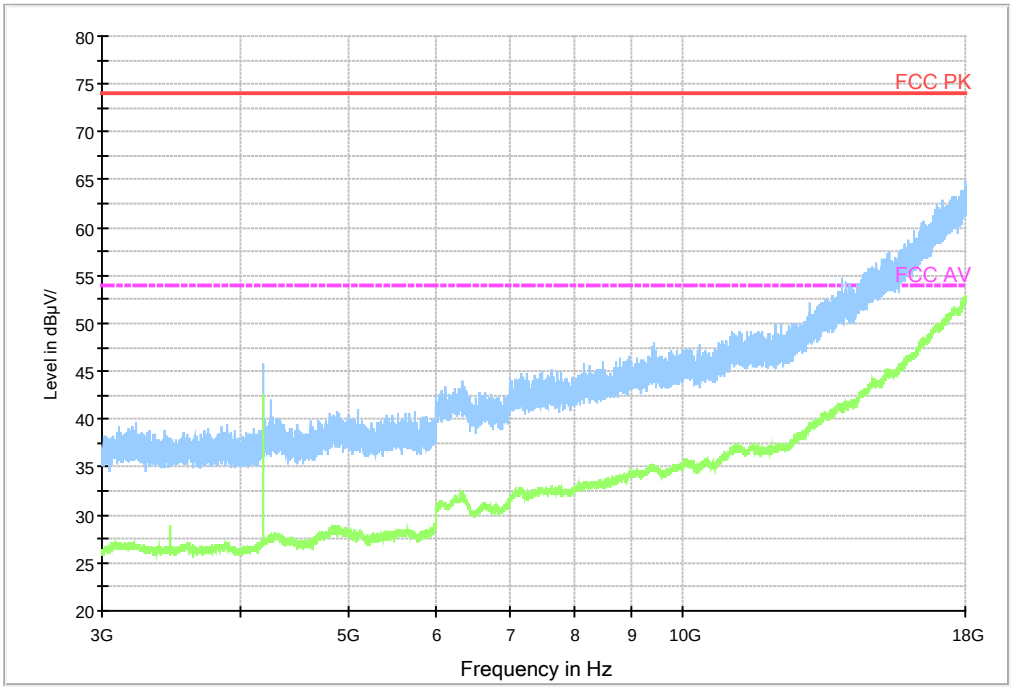


Frequency MHz	QP dBuV/m	Mea.Time ms	RBW KHz	Height cm	Polarity	Azimuth deg	Margin dB	Limit dBuV/m
124.963000	19.5	5000.0	120.000	215.0	H	90.0	24.0	43.5
201.208000	21.1	5000.0	120.000	115.0	H	90.0	22.4	43.5
203.387500	22.4	5000.0	120.000	115.0	H	90.0	21.1	43.5
206.646000	26.4	5000.0	120.000	200.0	H	90.0	17.1	43.5
480.031500	21.8	5000.0	120.000	215.0	H	90.0	24.2	46.0
895.249000	18.4	5000.0	120.000	185.0	H	180.0	27.6	46.0

RE 1GHz-3GHz



RE 3GHz-18GHz



Test photo

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

Annex A External Photos

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

Annex B Internal Photos

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

ANNEX C Deviations from Prescribed Test Methods

No deviation from Prescribed Test Methods.

The End of this Report