



# FCC RF Test Report

**APPLICANT** : Quectel Wireless Solutions Co., Ltd.  
**EQUIPMENT** : Smart Module  
**BRAND NAME** : Quectel  
**MODEL NAME** : SC20-AL  
**FCC ID** : XMR201911SC20AL  
**STANDARD** : FCC Part 15 Subpart E §15.407  
**CLASSIFICATION** : (NII) Unlicensed National Information Infrastructure

The product was received on Nov. 14, 2019. We, Sporton International (KunShan) 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 (KunShan) Inc., the test report shall not be reproduced except in full.

Jason Jia

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Reviewed by: Jason Jia / Supervisor

James Huang

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Approved by: James Huang / Manager



***Sporton International (Kunshan) Inc.***

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People's Republic of China***



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### **APPENDIX A. ORIGINAL REPORT**



## REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR9N1435D	Rev. 01	Initial issue of report	Dec. 24, 2019



# 1 General Description

## 1.1 Applicant

**Quectel Wireless Solutions Co., Ltd.**

Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai 200233, China

## 1.2 Manufacturer

**Quectel Wireless Solutions Co., Ltd.**

Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai 200233, China

## 1.3 Product Feature of Equipment Under Test

Product Feature	
<b>Equipment</b>	Smart Module
<b>Brand Name</b>	Quectel
<b>Model Name</b>	SC20-AL
<b>FCC ID</b>	XMR201911SC20AL
<b>EUT supports Radios application</b>	GSM/GPRS/EGPRS/WCDMA/HSPA/DC-HSDPA/ HSPA+(16QAM uplink is not supported)/LTE/ WLAN 2.4GHz 802.11b/g/n HT20/HT40 WLAN 5GHz 802.11a/n HT20/HT40/ Bluetooth v3.0 + EDR/ v4.2 LE
<b>HW Version</b>	R1.0
<b>SW Version</b>	SC20ALSAR09A01
<b>EUT Stage</b>	Identical Prototype

### Remark:

1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
2. The standards updated the latest version. This project is FCC change ID application (original report FCC ID: XMR201706SC20A) and changed items are as followed. Since the test result is not affected by the changes, so all the test results release from original report FR741007D (FCC ID: XMR201706SC20A) which can be referred to Appendix A.

Change item	Original	Present
<b>Operating System</b>	Android	Linux
<b>model name</b>	SC20-A	SC20-AL
<b>SW Version</b>	SC20ASAR04A03H8G	SC20ALSAR09A01
<b>Company Addr.</b>	7th Floor, Hongye Building, No.1801 Hongmei Road, Xuhui District, Shanghai 200233, China	Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai 200233, China

## 1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Frequency Range	5180 MHz ~ 5240 MHz 5260 MHz ~ 5320 MHz 5500 MHz ~ 5700 MHz
Antenna Type / Gain	<5180 MHz ~ 5240 MHz > Dipole Antenna with gain 4.00 dBi <5260 MHz ~ 5320 MHz > Dipole Antenna with gain 4.00 dBi <5500 MHz ~ 5700 MHz > Dipole Antenna with gain 4.00 dBi
Type of Modulation	802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM)

**Note:** WLAN operation in 5600 MHz ~ 5650 MHz is notched.

## 1.5 Modification of EUT

No modifications are made to the EUT during all test items.

## 1.6 Applicable Standards

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

- 47 CFR Part 15 Subpart E
- FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- ANSI C63.10-2013



## **Appendix A. Original Report**

Please refer to original report FR741007D which is issued separately.