



# DYNAMIC FREQUENCY SELECTION

## DFS Test Report

**APPLICANT** : Quectel Wireless Solutions Co., Ltd.  
**EQUIPMENT** : Smart Module  
**BRAND NAME** : Quectel  
**MODEL NAME** : SC20-W  
**FCC ID** : XMR201709SC20W  
**STANDARD** : FCC Part 15 Subpart E §15.407  
**CLASSIFICATION** : (NII) Unlicensed National Information Infrastructure

This is a data re-used report which is only valid together with the original test report. The product was received on Apr. 10, 2017. 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.

Approved by: James Huang / Manager



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### REVISION HISTORY

| REPORT NO.  | VERSION | DESCRIPTION             | ISSUED DATE   |
|-------------|---------|-------------------------|---------------|
| FZ741007-02 | Rev. 01 | Initial issue of report | Aug. 30, 2017 |
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# 1 General Description

## 1.1 Applicant

Quectel Wireless Solutions Co., Ltd.

7th Floor, Hongye Building, No.1801 Hongmei Road, Xuhui District, Shanghai 200233, China

## 1.2 Manufacturer

Quectel Wireless Solutions Co., Ltd.

7th Floor, Hongye Building, No.1801 Hongmei Road, Xuhui District, Shanghai 200233, China

## 1.3 Product Feature of Equipment Under Test

| Product Feature                 |  |
|---------------------------------|--|
| Equipment                       | Smart Module   |
| Brand Name                      | Quectel  |
| Model Name                      | SC20-W   |
| FCC ID                          | XMR201709SC20W   |
| EUT supports Radios application | WLAN 2.4GHz 802.11b/g/n HT20/HT40<br>WLAN 5GHz 802.11a/n HT20/HT40<br>Bluetooth v3.0 + EDR/Bluetooth v4.1 LE |
| HW Version                      | R1.0   |
| SW Version                      | SC20WSCR04A01H8G   |
| EUT Stage                       | Identical Prototype  |

**Remark:** The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.



### 1.4 Product Specification of Equipment Under Test

| Product Specification subjective to this standard |   |
|---|---|
| DFS Function                                      | Client without radar detection function   |
| Tx/Rx Channel Frequency Range                     | 5260 MHz ~ 5320 MHz<br>5500 MHz ~ 5700 MHz  |
| EUT support WLAN function                         | <b>&lt;5260 MHz ~ 5320 MHz&gt;</b><br>802.11a<br>802.11n HT20<br>802.11n HT40<br><b>&lt;5500 MHz ~ 5700 MHz &gt;</b><br>802.11a<br>802.11n HT20<br>802.11n HT40 |
| Type of Modulation                                | OFDM (BPSK / QPSK / 16QAM / 64QAM)  |

### 1.5 Modification of EUT

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



## 1.6 Re-use of Measured Data

### 1.6.1 Introduction Section

This application re-uses data collected on a similar device. The subject device of this application (Model: SC20-W, FCC ID: XMR201709SC20W) is electrically identical to the reference device (Model: SC20-A, FCC ID: XMR201706SC20A) for the portions of the circuitry corresponding to the data being re-used, as treated by KDB Publication 178919 D01.

### 1.6.2 Difference Section

For details concerning the similarity with respect to component placement, mechanical/electrical design etc., please refer to the Operational Description.

The re-used RF data includes the following bands provided in Appendix A (Sporton RF Report No. FZ741007 for the reference device Model: SC20-A, FCC ID: XMR201706SC20A):

### 1.6.3 Spot Check Verification Data Section

In order to confirm hardware similarity of the subject device with the reference device, spot check measurements were performed on the subject device for test result were consistent with FCC ID: XMR201706SC20A.

Assertions concerning the similarity of these devices are based on representations by the applicant. The applicant accepts full responsibility for the validity of the similarity claim, and for the determination that verification test data are sufficient to support it.

### 1.6.4 Reference detail Section:

| Equipment Class | Reference FCC ID | Folder Test/RF Exposure | Report Title/Section    |
|-----------------|------------------|-------------------------|-------------------------|
| NII (B1~B3)     | XMR201706SC20A   | Part15E(FR741007D)      | All sections applicable |
| NII (B4)        | XMR201706SC20A   | Part15E(FR741007E)      | All sections applicable |
| NII (DFS)       | XMR201706SC20A   | Part15E(FZ741007)       | All sections applicable |



## **Appendix A. Reference Report**

Please refer to Sporton report number FZ741007 which is issued separately.