FCC RF 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 C §15.247

CLASSIFICATION: (DSS) Spread Spectrum Transmitter

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 and testing was completed on Aug. 17, 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

Sporton International (Kunshan) Inc.

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Report Version : Rev. 01

Report No.: FR741007-02A

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR741007-02A	Rev. 01	Initial issue of report	Aug. 30, 2017

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SUMMARY OF TEST RESULT

Report Section	FCC Rule Description		Limit	Result	Remark
		Radiated Band Edges			Under limit
2.1	15.247(d)	and Radiated Spurious	15.209(a) & 15.247(d)	Pass	10.71 dB at
		Emission			36.790 MHz
2.2	15.203 & 15.247(b)	Antenna Requirement	N/A	Pass	-

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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 WLAN 5GHz 802.11a/n HT20/HT40 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.

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1.4 Product Specification of Equipment Under Test

Standards-related Product Specification		
Tx/Rx Frequency Range	2402 MHz ~ 2480 MHz	
Number of Channels	79	
Carrier Frequency of Each Channel	2402+n*1 MHz; n=0~78	
Antenna Type	Dipole Antenna with gain 3.00 dBi	
	Bluetooth BR (1Mbps) : GFSK	
Type of Modulation	Bluetooth EDR (2Mbps) : π /4-DQPSK	
	Bluetooth EDR (3Mbps) : 8-DPSK	

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1.5 Modification of EUT

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

1.6 Testing Location

Sporton Lab is accredited to ISO 17025 by National Voluntary Laboratory Accreditation Program (NVLAP code: 600155-0) and the FCC designation No is CN5013.

((· · = :: - · · · · · · · · · · · · · · · · ·						
Test Site	Sporton International (Kunshan) Inc.					
Test Site Location	No.3-2 Ping-Xiang Rd, Kunshan Development Zone Kunshan City Jiangsu Province 215335 China TEL: +86-512-57900158 FAX: +86-512-57900958					
Test Site No.	Sporton Site No.	FCC Test Firm Registration No.				
	03CH03-KS	630927				

Note: The test site complies with ANSI C63.4 2014 requirement.

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1.7 Re-use of Measured Data

1.7.1 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.

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1.7.2 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 B (Sporton RF Report No. FR741007A for the reference device Model: SC20-A, FCC ID: XMR201706SC20A):

1.7.3 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 the worst of radiated spurious emission.

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.

1.7.4 Reference detail Section:

Equipment Class	Reference FCC ID	Folder Test/RF Exposure	Report Title/Section
DSS	XMR201706SC20A	Part15C(FR741007A)	All sections applicable
DTS (BLE)	XMR201706SC20A	Part15C(FR741007B)	All sections applicable
DTS (WLAN)	XMR201706SC20A	Part15C(FR741007C)	All sections applicable

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2 Test Result

2.1 Radiated Band Edges and Spurious Emission Measurement

2.1.1 Limit of Radiated Band Edges and Spurious Emission

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. In addition, radiated emissions which fall in the restricted bands must also comply with the limits as below.

Frequency	Field Strength	Measurement Distance
(MHz)	(microvolts/meter)	(meters)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

2.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

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2.1.3 Test Procedures

- The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
- 1. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 2. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
- 3. Set to the maximum power setting and enable the EUT transmit continuously.
- 4. Use the following spectrum analyzer settings:
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Set RBW=100 kHz for f < 1 GHz, RBW=1MHz for f>1GHz; VBW ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold for peak
 - (3) For average measurement: use duty cycle correction factor method per 15.35(c).

Duty cycle = On time/100 milliseconds

On time = $N_1*L_1+N_2*L_2+...+N_{n-1}*LN_{n-1}+N_n*L_n$

Where N_1 is number of type 1 pulses, L_1 is length of type 1 pulses, etc.

Average Emission Level = Peak Emission Level + 20*log(Duty cycle)

5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level

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2.1.4 Test Setup

For radiated emissions below 30MHz

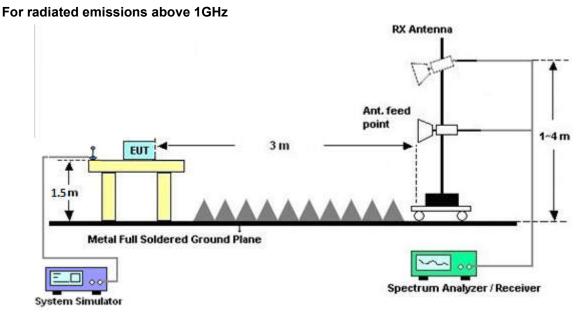


For radiated emissions from 30MHz to 1GHz



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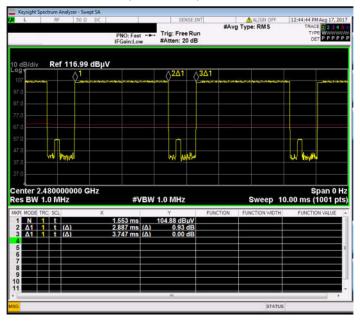


2.1.5 Test Results of Radiated Spurious Emissions (9 kHz ~ 30 MHz)

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

2.1.6 Duty cycle correction factor for average measurement

3DH5 on time (One Pulse) Plot on Channel 39

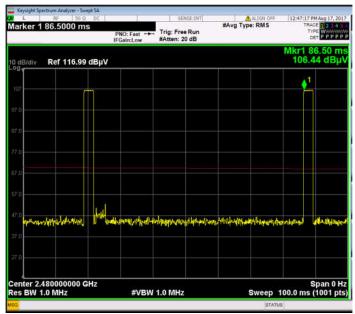


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3DH5 on time (Count Pulses) Plot on Channel 39



Note:

- 1. Worst case Duty cycle = on time/100 milliseconds = 2 * 2.887 / 100 = 5.77 %
- 2. Worst case Duty cycle correction factor = 20*log(Duty cycle) = -24.77 dB
- 3. 3DH5 has the highest duty cycle worst case and is reported.

2.1.7 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix A.

2.1.8 Test Result of Radiated Spurious Emission (30MHz ~ 10th Harmonic)

Please refer to Appendix A.

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2.2 Antenna Requirements

2.2.1 Standard Applicable

If directional gain of transmitting antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the rule.

2.2.2 Antenna Anti-Replacement Construction

Non-standard antenna connector is used.

2.2.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.

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3 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver	Keysight	N9038A	MY564000 04	3Hz~8.5GHz;M ax 30dBm	Oct. 22.2016	Aug. 17, 2017	Oct. 21.2017	Radiation (03CH03-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY551502 44	10Hz-44GHz	Apr. 18, 2017	Aug. 17, 2017	Apr.17, 2018	Radiation (03CH03-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Nov. 23, 2016	Aug. 17, 2017	Nov.22, 2017	Radiation (03CH03-KS)
Bilog Antenna	TeseQ	CBL6112D	35406	25MHz-2GHz	Apr. 22, 2017	Aug. 17, 2017	Apr. 21, 2018	Radiation (03CH03-KS)
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-135 6	1GHz~18GHz	Apr. 22, 2017	Aug. 17, 2017	Apr. 21, 2018	Radiation (03CH03-KS)
SHF-EHF Horn	com-power	AH-840	101070	18GHz ~40GHz	Oct. 19, 2016	Aug. 17, 2017	Oct. 18, 2017	Radiation (03CH03-KS)
Amplifier	com-power	PA-103A	161069	1MHz ~1000MHz / 32 dB	Apr. 18, 2017	Aug. 17, 2017	Apr. 17, 2018	Radiation (03CH03-KS)
Amplifier	Agilent	8449B	3008A023 70	1GHz~26.5GHz	Oct. 13, 2016	Aug. 17, 2017	Oct. 12, 2017	Radiation (03CH03-KS)
AC Power Source	Chroma	61601	F1040900 04	N/A	NCR	Aug. 17, 2017	NCR	Radiation (03CH03-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Aug. 17, 2017	NCR	Radiation (03CH03-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Aug. 17, 2017	NCR	Radiation (03CH03-KS)

NCR: No Calibration Required

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4 Uncertainty of Evaluation

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence	4.6dB
of 95% (U = 2Uc(y))	4.000

<u>Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)</u>

Measuring Uncertainty for a Level of Confidence	4.5dB
of 95% (U = 2Uc(y))	4.506

<u>Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)</u>

Measuring Uncertainty for a Level of Confidence	4.7dB
of 95% (U = 2Uc(y))	4.705

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Appendix A. Radiated Spurious Emission

2.4GHz 2400~2483.5MHz

BT (Band Edge @ 3m)

ВТ	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBµV/m)	(dB)	($dB\mu V/m$)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		2483.55	52.16	-21.84	74	53.56	26.11	4.86	32.37	112	39	Р	Н
		2483.55	27.39	-26.61	54	-	-	-	-	-	-	Α	Н
	*	2480	105.24	-	1	106.64	26.11	4.86	32.37	112	39	Р	Н
BT CU 79	*	2480	80.47	-	-	-	-	-	-	-	-	Α	Н
CH 78 2480MHz		2483.51	50.78	-23.22	74	52.18	26.11	4.86	32.37	327	360	Р	٧
2400MHZ		2483.51	26.01	-27.99	54	-	-	-	-	-	-	Α	V
	*	2480	102.53	-	1	103.93	26.11	4.86	32.37	327	360	Р	V
	*	2480	77.76	-	-	_	-	_	_	-	-	Α	٧

Remark

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^{1.} No other spurious found.

^{2.} All results are PASS against Peak and Average limit line.

2.4GHz 2400~2483.5MHz

BT (Harmonic @ 3m)

ВТ	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dB _µ V)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		4962	42.21	-31.79	74	61.01	31.19	6.83	56.82	100	360	Р	Н
BT		7440	38.62	-35.38	74	59.3	35.68	8.51	64.87	100	360	Р	Н
CH 78 2480MHz		4962	42.74	-31.26	74	61.54	31.19	6.83	56.82	100	360	Р	V
240UNITZ		7440	37.56	-36.44	74	58.24	35.68	8.51	64.87	100	360	Р	٧

Remark

1. No other spurious found.

2. All results are PASS against Peak and Average limit line.

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Emission below 1GHz 2.4GHz BT (LF)

вт	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
		(MHz)	(dBµV/m)	Limit (dB)	Line (dBµV/m)	Level (dBµV)	Factor (dB/m)	Loss (dB)	Factor (dB)	Pos (cm)	Pos (deg)	Avg. (P/A)	(H/V)
		30	24.79	-15.21	40	29.5	26.3	0.09	31.1	100	269	Р	Н
		148.34	20.8	-22.7	43.5	33.38	17.32	0.99	30.89	-	-	Р	Н
		223.03	30.43	-15.57	46	43.21	16.72	1.65	31.15	-	-	Р	Н
		455.83	25.66	-20.34	46	31.18	23.39	2.69	31.6	-	-	Р	Н
		707.06	30.49	-15.51	46	32.11	26.87	2.4	30.89	-	-	Р	Н
2.4GHz		796.3	30.71	-15.29	46	30.96	27.76	2.7	30.71	-	-	Р	Н
BT LF		36.79	29.29	-10.71	40	38.11	22.14	0.12	31.08	100	269	Р	V
LF		56.19	22.05	-17.95	40	39.25	13.52	0.8	31.52	-	-	Р	V
		148.34	23.17	-20.33	43.5	35.75	17.32	0.99	30.89	-	-	Р	V
		369.5	28.4	-17.6	46	35.84	21.75	2.31	31.5	-	-	Р	V
		639.16	26.51	-19.49	46	28.16	26.13	3.01	30.79	-	-	Р	V
		704.15	27.97	-18.03	46	29.65	26.84	2.37	30.89	-	-	Р	V

Remark

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^{1.} No other spurious found.

^{2.} All results are PASS against limit line.

Note symbol

*	Fundamental Frequency which can be ignored. However, the level of any
	unwanted emissions shall not exceed the level of the fundamental frequency.
!	Test result is over limit line.
P/A	Peak or Average
H/V	Horizontal or Vertical

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A calculation example for radiated spurious emission is shown as below:

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WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dB _µ V)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	Р	Н
CH 01													
2412MHz		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	Α	Н

1. Level($dB\mu V/m$) =

Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBµV) - Preamp Factor(dB)

2. Over Limit(dB) = Level(dB μ V/m) – Limit Line(dB μ V/m)

For Peak Limit @ 2390MHz:

- Level(dBµV/m)
- = Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBµV) Preamp Factor(dB)
- $= 32.22(dB/m) + 4.58(dB) + 54.51(dB\mu V) 35.86 (dB)$
- $= 55.45 (dB\mu V/m)$
- 2. Over Limit(dB)
- = Level(dBµV/m) Limit Line(dBµV/m)
- $= 55.45(dB\mu V/m) 74(dB\mu V/m)$
- = -18.55(dB)

For Average Limit @ 2390MHz:

- Level(dBµV/m)
- = Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBµV) Preamp Factor(dB)
- $= 32.22(dB/m) + 4.58(dB) + 42.6(dB\mu V) 35.86 (dB)$
- $= 43.54 (dB\mu V/m)$
- 2. Over Limit(dB)
- = Level($dB\mu V/m$) Limit Line($dB\mu V/m$)
- $= 43.54(dB\mu V/m) 54(dB\mu V/m)$
- = -10.46(dB)

Both peak and average measured complies with the limit line, so test result is "PASS".

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Appendix C. Reference Report

Please refer to Sporton report number FR741007A which is issued separately.

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