

Report No.: KSCR230300042001

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# TEST REPORT

Application No.: KSCR2303000420AT FCC ID: XMR2023RG620TNA

Applicant: Quectel Wireless Solutions Co., Ltd.

Address of Applicant: Building 5, Shanghai Business Park Phase III (Area B),

No.1016 Tianlin Road, Minhang District, Shanghai, China 200233

Manufacturer: Quectel Wireless Solutions Co., Ltd.

Address of Manufacturer: Building 5, Shanghai Business Park Phase III (Area B),

No.1016 Tianlin Road, Minhang District, Shanghai, China 200233

**Equipment Under Test (EUT):** 

**EUT Name**: 5G Sub-6 GHz LGA Module

Model No.: RG620T-NA Trade Mark: Quectel

Standard(s): FCC Part 96.47

FCC KDB 940660 D01 Part 96 CBRS Eqpt v03

WINNF-TS-0122-V1.0.2 CBRS CBSD Test Specification

WINNF-18-IN-00178 CBRS End User Device as UUT Test Guidelines

**Date of Receipt:** 2023-03-09

**Date of Test:** 2023-03-12 to 2023-04-13

**Date of Issue:** 2023-04-13

Test Result: Pass\*

Eric Lin Laboratory Manager

Jose fri



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<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.



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Revision Record					
Version Description Date Remark					
00	Original	2023-04-13	1		

Authorized for issue by:			
		Damon zhou	
		Damon Zhou / Project Engineer	
		Eni fri	
	E	Eric Lin / Reviewer	



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#### **Test Summary** 2

Item	Standard	Test Case ID	Result
End User Device additional requirement	96.47	/	Pass

The UUT is an End User Device. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

### Test standards:

FCC Part 96.47 FCC KDB 940660 D01 Part 96 CBRS Eqpt v03 WINNF-TS-0122-V1.0.2 CBRS CBSD Test Specification WINNF-18-IN-00178 CBRS End User Device as UUT Test Guidelines



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## **General Information**

## 4.1 Details of E.U.T.

Power supply:	DC3.8V		
Sample Type:	End User device		
Transmitter Frequency Band:	LTE: Band 48/Band 42/Band 43		
Transmitter Frequency Band.	5GNR: n48/n77/n78		
	Band 42:3550-3600MHz		
Transmitter Frequency Range:	Band 43:3600-3700MHz		
	Band 48/n48/n77/n78:3550~3700MHz		
Antenna Type:	External Antenna		
Antenna information:	Band 48(SISO): Ant0		
Antenna information.	N48(UL MIMO): Ant0&Ant6		
Hardware Version:	R1.0		
Software Version:	RG620TNAAAR01A04G55_OCPU		
Antenna Gain:	Ant0: -4.29dBi (Provided by the manufacturer)		
Antenna Gain:	Ant6: -4.29dBi (Provided by the manufacturer)		

## 4.2 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	± 7.25 x 10 <sup>-8</sup>
2	RF conducted power	± 0.75dB
3	Temperature test	± 1°C
4	Humidity test	± 3%
5	Supply voltages	± 1.5%
6	Time	± 3%



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## 4.3 Description of Support Units

## For LTE test:

Description	Manufacturer	Model No.	Serial No.
EPC	Lanner Electronics Inc.	LICA-1513A	LR202002004052
Router	TP-LINK	TL-R860+	1175379002425
Base station	Baicells	pBS31010 (FCC ID: 2AG32PBS31010)	12020002912122B0001

### For 5GNR test:

Description	Manufacturer	Model No.	Serial No.	
5GC	astir	astir_5GC	A372768X0507398	
Router	TP-Link	TL-R860+	1175379002425	
Base Band Unit	BTI	sCELL- G52091NAX	L603JESE1I	
Remote Radio	BTI	RU4370	C0214921000004S	
Unit	DII	(FCC ID: WBK-RU4370)	C02149210000043	



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### 4.4 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.

Tel: +86 512 5735 5888 Fax: +86 512 5737 0818

No tests were sub-contracted.

Note:

1.SGS is not responsible for wrong test results due to incorrect information (e.g., max. internal working frequency, antenna gain, cable loss, etc) is provided by the applicant. (If applicable).

2.SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (If applicable).

### 4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

#### A2LA

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

#### • FCC

Compliance Certification Services (Kunshan) Inc. has been recognized as an accredited testing laboratory. Designation Number: CN1172.

### ISED

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory. Company Number: 2324E

### VCCI

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-20134, R-11600, C-11707, T-11499, G-10216 respectively.

### 4.6 Deviation from Standards

None

### 4.7 Abnormalities from Standard Conditions

None



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#### **Equipment List** 5

Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
Laptop	Lenovo	Y510P	HFL000026	N/A	N/A
Spectrum Analyzer	KEYSIGHT	N9020A	KUS2001M00 1-2	2022/8/22	2023/8/21
Shield Room	YanChuang	N/A	KS301115-2	N/A	N/A
Coaxial Cable	Thermax	N/A	13	2022/9/16	2023/9/15
Attenuator	Mini-Circuits	NAT-6-2W	15542-1	N.C.R.	N.C.R.
Humidity / Temperature Indicator	Renke	RS-WS-N01- 6J	1032844	2022/4/1	2023/3/31



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#### 6 Test Method and Environment

6.1 **End User Device Conformance and Performance** 

> FCC Part 96.47 Test Requirement:

WINNF-18-IN-00178 CBRS End User Device as UUT Test Guidelines Test Method:

**6.2** Test Environment

**Environmental Conditions:** 25°C, 65%RH

6.3 Test Requirement

FCC Part 96.47

- a). End User Devices may operate only if they can positively receive and decode an authorization signal transmitted by a CBSD, including the frequencies and power limits for their operation.
- b). An End User Device must discontinue operations, change frequencies, or change its operational power level within 10 seconds of receiving instructions from its associated CBSD.



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#### 6.4 Test Procedure

Following procedure can be done by applying WINNF-TS-0122-V1.0.2 CBRS CBSD Test Specification, use the certified LTE Base station CBSD (FCC ID: 2AG32PBS31010) and 5GNR Base station CBSD (FCC ID: WBK-RU4370) as companion device to show compliance with Part 96.47 requirement for End User Device (EUD):

### For LTE:

- 1. Setup with frequency 3550-3570MHz and power level 20dBm/MHz;
- 2. Enable CBSD service;
- 3. Check EUD Tx Frequency and power;
- 4. Disable AP service;
- 5. Check EUD stops transmission within 10seconds;
- 6. Setup with 3640-3660MHz & power level 8dBm/MHz;
- 7. Enable CBSD service;
- 8. Check EUD Tx Frequency and power;
- 9. Disable CBSD service;
- 10. Check EUD stops transmission within 10seconds.

#### For 5G NR:

- 1. Setup with frequency 3550-3650MHz and power level 20dBm/MHz;
- 2. Enable CBSD service;
- 3. Check EUD Tx Frequency and power;
- 4. Disable AP service;
- 5. Check EUD stops transmission within 10seconds;
- 6. Setup with 3600-3700MHz & power level 8dBm/MHz;
- 7. Enable CBSD service;
- 8. Check EUD Tx Frequency and power;
- 9. Disable CBSD service;
- 10. Check EUD stops transmission within 10seconds.



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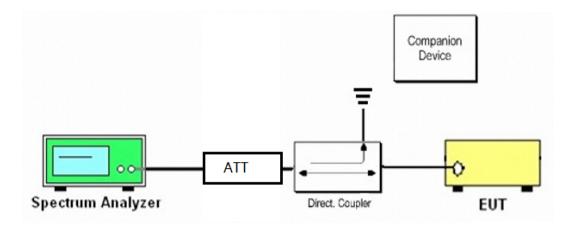
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## 6.5 Test Setup



For LTE:

End User Device as UUT, the companion device is certified CBRS (FCC ID: 2AG32PBS31010)

For 5G NR:

End User Device as UUT, the companion device is certified CBRS (FCC ID: WBKRU4370)



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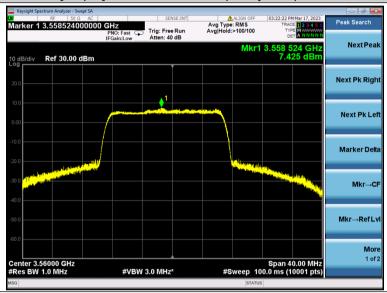
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### 6.6 Test Result

For LTE

## [Step 1] Setup with frequency 3550-3570MHz and power level 20dBm/MHz

[Step 3] Check EUD Tx Frequency and power



EIRP PSD=7.425-4.29+4.5=7.635dBm/MHz, Antenna gain is -4.29dBi, the path loss is 4.5dB

[Step 5] EUD stops transmission within 10 seconds of receiving instructions from its associated CBSD.





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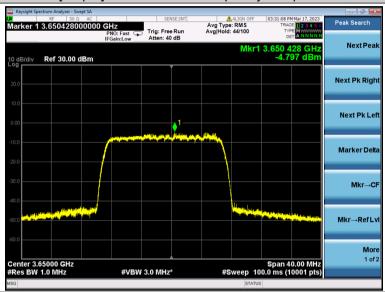


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## [Step 6] Setup with frequency 3640-3660MHz and power level 8dBm/MHz

[Step 8] Check EUD Tx Frequency and power



EIRP PSD=-4.797-4.29+4.5=-4.587dBm/MHz, Antenna gain is -4.29dBi, the path loss is 4.5dB

[Step 10] EUD stops transmission within 10 seconds of receiving instructions from its associated CBSD.





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### For 5GNR

# [Step 1] Setup with frequency 3550-3650MHz and power level 20dBm/MHz

[Step 3] Check EUD Tx Frequency and power



EIRP PSD=-3.788-4.29+4.5+3=-0.578dBm/MHz, Antenna gain is -4.29dBi, the path loss is 4.5dB, the MIMO Factor is 3dB

[Step 5] EUD stops transmission within 10 seconds of receiving instructions from its associated CBSD.





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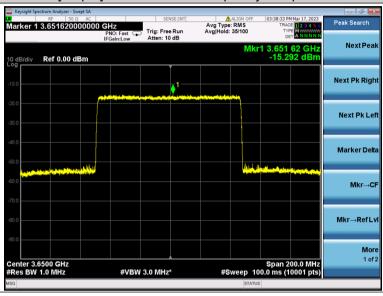


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## [Step 6] Setup with frequency 3600-3700MHz and power level 8dBm/MHz

[Step 8] Check EUD Tx Frequency and power



EIRP PSD=-15.292-4.29+4.5+3=-12.082dBm/MHz, Antenna gain is -4.29dBi, the path loss is 4.5dB, the MIMO Factor is 3dB

[Step 10] EUD stops transmission within 10 seconds of receiving instructions from its associated CBSD.





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#### **Test Setup Photographs** 7

Refer to Appendix - Test Setup Photo for KSCR2303000420AT.

- End of the Report -



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