

SZEMC-TRF-01 Rev. A/0 Aug01.2022

Report No.: SZCR240100038411

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TEST REPORT

SZCR2401000384AT **Application No.:**

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

Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin **Address of Applicant:**

Road, Minhang District, Shanghai 200233, China

Quectel Wireless Solutions Co., Ltd. Manufacturer:

Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Address of Manufacturer:

Road, Minhang District, Shanghai 200233, China

Equipment Under Test (EUT):

EUT Name: 5G Sub-6 GHz Smart Module with Wi-Fi 6E & Bluetooth

Model No.: SG560D-NA Trade Mark: **QUECTEL**

FCC ID: XMR2024SG560DNA

FCC Part 96.47 Standard(s):

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: 2024-01-29

2024-05-09 to 2024-05-10 Date of Test:

2024-05-10 Date of Issue:

Pass* **Test Result:**

EMC Laboratory Manager

Ceny. xu



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^{*} In the configuration tested, the EUT complied with the standards specified above.



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Revision Record					
Version	Chapter	Date	Modifier	Remark	
01		2024-05-10		Original	

Authorized for issue by:		
	Benson Wong	
	Benson Wang/Project Engineer	
	Exic Fu	
	Eric Fu/Reviewer	



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Test Summary

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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4 General Information

4.1 Details of E.U.T.

Power supply:	DC 4.0V
Sample Type:	Module
CBSD Class:	End User device
Hardware Version:	R1.0
Software Version:	SG560DNAPAR03A05
Transmitter Frequency Band:	LTE: Band 48
	5G NR: n48
Transmitter Frequency Range:	3550~3700MHz
Antenna Gain:	-3.6dBi (Provided by manufacturer)
Antenna Type:	External

4.2 Measurement Uncertainty

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

Remark:

The Ulab (lab Uncertainty) is less than Ucispr/ETSI (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

4.3 Description of Support Units

Description	Manufacturer	Model No.	Serial No.	
DP	Lanner Electronics Inc.	LICA-1513A	/	
EPC	Lanner Electronics Inc.	LICA-1513A	LR202002004052	
Router TP-LINK		TL-R860+	1175379002425	
LTE Base Station	Baicells	mBS31010 (FCC ID: 2AG32MBS31010)	120300010220B6B0002	



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FC ND Door		BSC7048A243	
5G NR Base station	Baicells	(FCC ID: 2AG32BSC7048A243)	1202000577233VB0002



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4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.5 Test Facility

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

A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

VCCI (Member No. 1937)

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

FCC –Designation Number: CN1336

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.



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5 Equipment List

Test Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Laptop (With SAS Test hamess)	Lenovo	T14	/	1	/
Spectrum Analyzer	Keysight	N9020B	SEM004-24	2024-03-20	2025-03-19
Shield Room	SAEMC	MSR433	SEM001-11	2024-03-13	2027-03-12
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-11	2024-07-10
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Splitter	MACOM	2090-6214-00	N/A	N/A	N/A
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2023-07-28	2024-07-27



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Test Method and Environment 6

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: 25deg. 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.

6.4 Test Procedure

For LTE:

Following procedure can be done by applying WINNF-TS-0122-V1.0.2 CBRS CBSD Test Specification, use the certified Base station CBSD (FCC ID: 2AG32MBS31010) as companion device to show compliance with Part 96.47 requirement for End User Device (EUD):

- 1. Setup with frequency 3590-3610MHz and power level 18dBm/MHz;
- Enable CBSD service ;
- 3. Check EUD Tx Frequency and power;
- 4. Disable CBSD service;
- Check EUD stops transmission within 10seconds;
- Setup with frequency 3630-3650MHz and power level 5dBm/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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For NR:

Following procedure can be done by applying WINNF-TS-0122-V1.0.2 CBRS CBSD Test Specification, use the certified Base station CBSD (FCC ID: 2AG32BSC7048A243) as companion device to show compliance with Part 96.47 requirement for End User Device (EUD):

- 1. Setup with frequency 3590-3610MHz and power level 18dBm/MHz;
- 2. Enable CBSD service;
- 3. Check EUD Tx Frequency and power;
- 4. Disable CBSD service;
- 5. Check EUD stops transmission within 10seconds;
- 6. Setup with frequency 3610-3630MHz and power level 5dBm/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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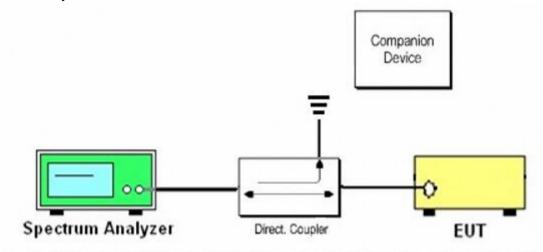


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6.5 Test Setup



End User Device as UUT, the companion device is certified CBSD



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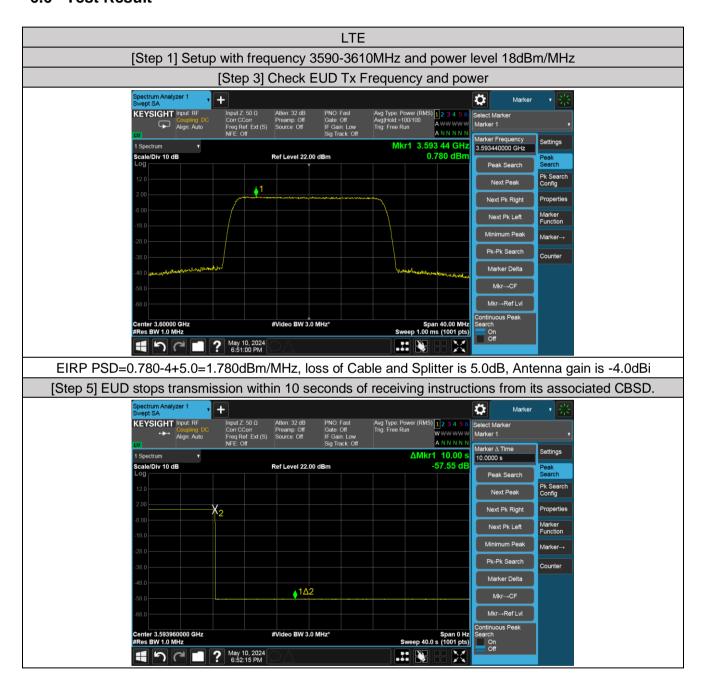


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6.6 Test Result





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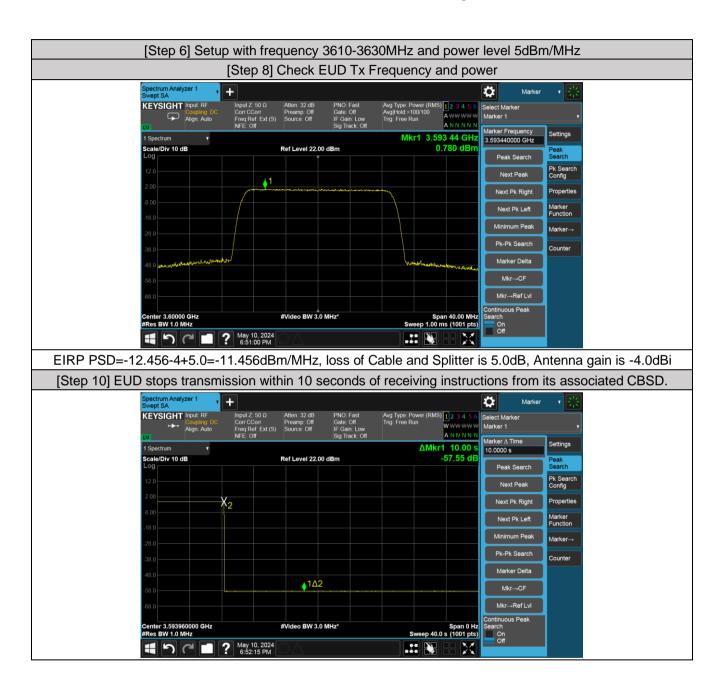
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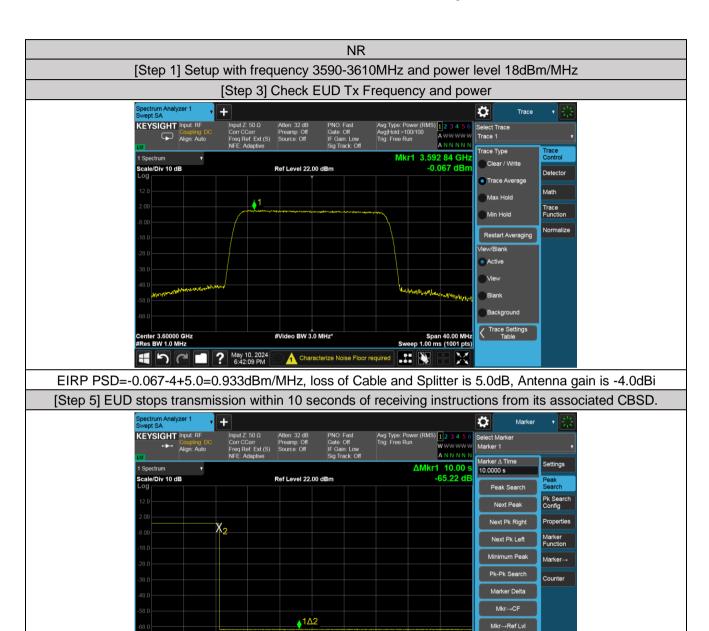
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#Video BW 3.0 MHz*



Center 3.592880000 GHz #Res BW 1.0 MHz

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Span 0 Hz Sweep 40.0 s (1001 pts)

On

Sample(s) are retained for 30 days only.

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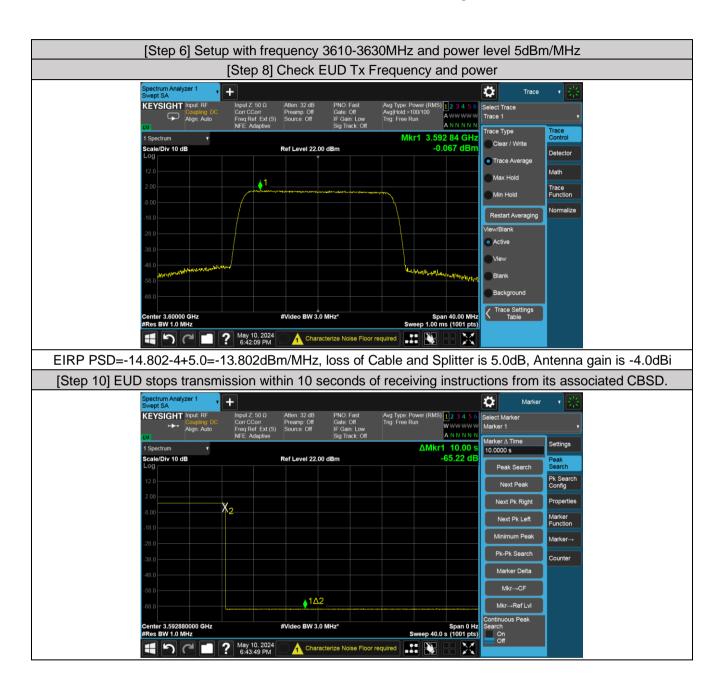
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7 **Photographs**

7.1 EUT Constructional Details (EUT Photos)

Please Refer to external and internal photos for details.

- End of the Report -



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