FCC Part 96.47 TEST REPORT

FCC ID	:	**HFS-QTAWUA**
Equipment	:	**5G USB Modem**
Model Name	:	**QTAWUA**
Applicant	:	**Quanta Computer Inc.** **NO.188, Wenhua 2nd Rd., Guishan Dist., Taoyuan City 33377, Taiwan**
Manufacturer	:	**Quanta Computer Inc.** **NO.188, Wenhua 2nd Rd., Guishan Dist., Taoyuan City 33377, Taiwan**
Standard	:	**FCC Part 96.47**
RF Interface	:	**LTE B48**

The product was received on May 31, 2024, and testing was performed from Jul. 05, 2024 to Jul. 05, 2024. We, Sporton International Inc. Wensan Laboratory, 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 from Sporton International Inc. Wensan Laboratory, the test report shall not be reproduced except in full.

Approved by: Jones Tsai

Sporton International Inc. Wensan Laboratory
No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C)

TEL : 886-3-327-0868
FAX : 886-3-327-0855

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History of this test report

Report No.	Version	Description	Issue Date
FG451315E	01	Initial issue of report	Dec. 24, 2024

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3	96.47	End User Device additional requirement	Pass	-

Conformity Assessment Condition:
The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
Disclaimer:
The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Keven Cheng

Report Producer: Lucy Wu

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature
General Specs LTE and 5G NR. **Antenna Type** WWAN: PIFA Antenna

Remark: The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.

1.2 Modification of EUT

No modifications are made to the EUT during the entire test sessions.

1.3 Testing Location

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	**Sporton Site No.**
	TH05-HY
Test Engineer	Thomas Chen
Temperature	23 ~ 26 ℃
Relative Humidity	46 ~ 49 %

FCC designation No.: TW3786

1.4 Applicable Standards

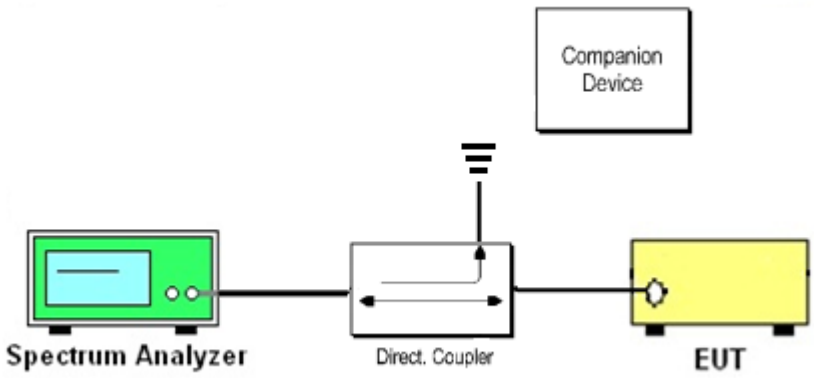
- FCC Part 96.47
- FCC KDB 940660 D01 Part 96 CBRS Eqpt v03
- WINNF-TS-0122-V1.0.2 CBRS CBSD Test Specification

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. The TAF code is not including all the FCC KDB listed without accreditation.

2 Test Configuration of Equipment Under Test

2.1 Connection Diagram of Test System



The companion device is a certified CBSD (FCC ID: S9GQ710US02)

3 End User Device additional requirement

3.1 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.

(1) 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.

3.2 Test Procedure

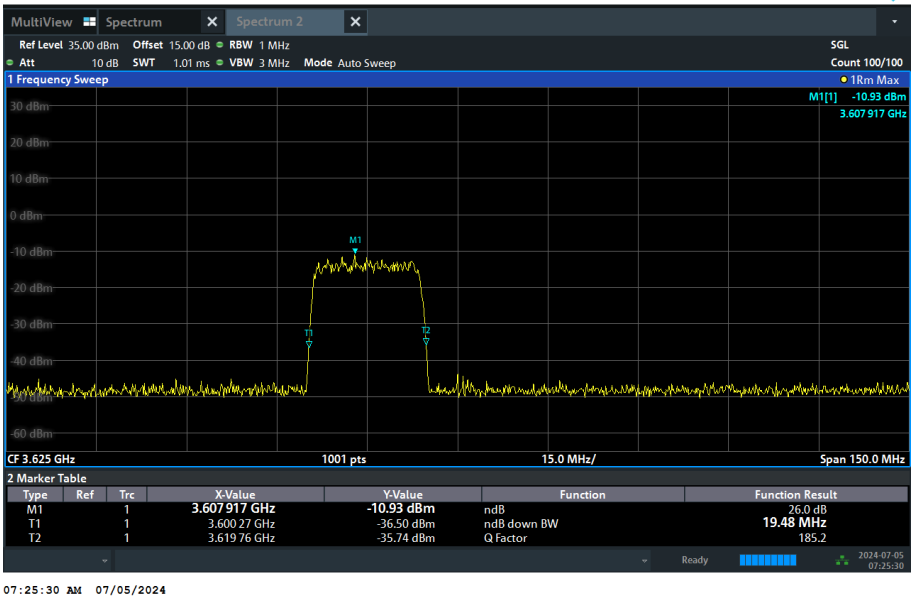
The following procedure is following in accordance with WINNF-TS-0122-V1.0.2 CBRS CBSD Test Specification, using the certified Ruckus CBSD (FCC ID: S9GQ710US02) as a companion device to present compliance with Part 96.47 requirement for End User Device (EUD):

1. Configure SAS granted CBSD to operate at frequency 3600-3620 MHz and power level 20 dBm/MHz
2. Enable CBSD service
3. Check EUD Tx Frequency and power
4. Disable CBSD service
    a. Check if EUD stops transmission within 10 seconds.

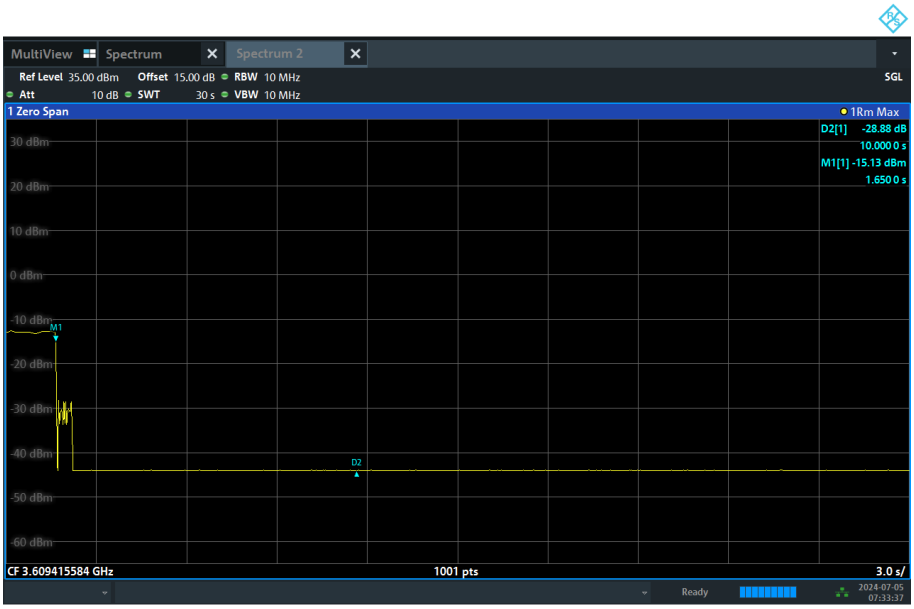
5. Configure SAS granted CBSD to operate at frequency 3670-3690 MHz & power level 10 dBm/MHz
6. Enable CBSD service
7. Check EUD Tx Frequency and power
8. Disable CBSD service
    a. Check if EUD stops transmission within 10 seconds.

3.3 Test Result

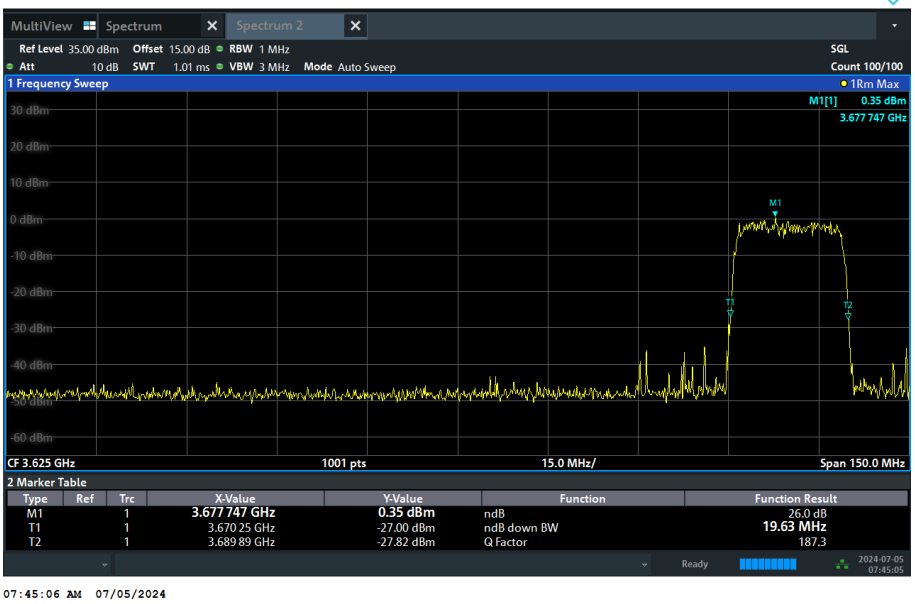
[Step 1] Configure SAS granted CBSD to operate at frequency 3600-3620 MHz and power level 20 dBm/MHz
[Step 3] Check EUD Tx Frequency and power



[Step 4.a.] EUD stops transmission within 10 seconds right after receiving instructions from its associated CBSD.



[Step 5] Configure SAS granted CBSD to operate at frequency 3670-3690 MHz & power level 10 dBm/MHz
[Step 7] Check EUD Tx Frequency and power



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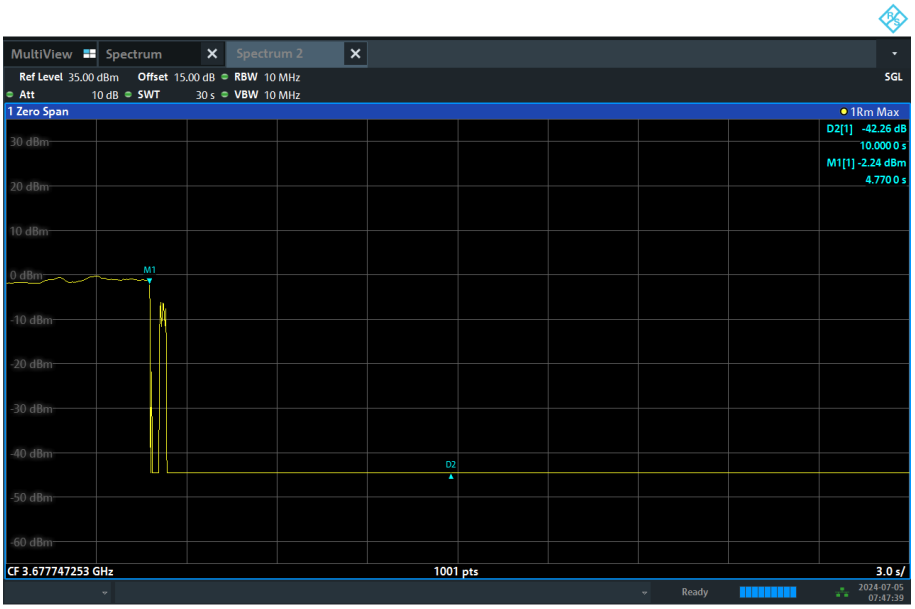
[Step 8.a.] After changing the frequency and power level, The EUD discontinues operating, changes frequencies, or changes its operational power level within 10 seconds right after receiving instructions from its associated CBSD. Test result is a PASS.



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4 Measuring Equipment List

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV3044	101435	10Hz~44GHz	Nov. 01, 2023	Jul. 05, 2024	Oct. 31, 2024	Conducted (TH05-HY)