

Report No.: FG220629001

FCC Part 96.47 TEST REPORT

FCC ID : XHG-M2500 Equipment : 5G RF module

Model Name : RG2500

Applicant : Franklin Technology Inc.

906 JEI Platz, 186, Gasan digital 1-ro,

Gumcheon-Gu, Seoul, South Korea, 08502

Manufacturer : Franklin Technology Inc.

906 JEI Platz, 186, Gasan digital 1-ro,

Gumcheon-Gu, Seoul, South Korea, 08502

Standard : FCC Part 96.47

RF Interface : NR n48

The product was received on Jun. 27, 2022, and testing was performed from Jun. 28, 2022 to Jun. 29, 2022. We, Sporton International (USA) 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 (USA) Inc., the test report shall not be reproduced except in full.

Approved by: Neil Kao

Mil Kao

Sporton International (USA) Inc.

1175 Montague Expressway, Milpitas, CA 95035

TEL: 408 9043300 Page Number : 1 of 10

Report Template No.: BU5-FGLTE96.47 Version 2.0 Issued Date : Jul. 05, 2022

Report Version : 01

Table of Contents

Report No. : FG220629001

| His | story o | of this test report | 3 |
|-----|---------|---|----|
| Su | mmar | ry of Test Result | 4 |
| 1 | Gene | eral Description | 5 |
| | | Product Feature of Equipment Under Test | |
| | 1.2 | Modification of EUT | 5 |
| | 1.3 | Testing Location | 5 |
| | | Applicable Standards | |
| 2 | Test | Configuration of Equipment Under Test | 6 |
| | 2.1 | Connection Diagram of Test System | 6 |
| 3 | End | User Device additional requirement | 7 |
| | 3.1 | Test Requirement | 7 |
| | 3.2 | Test Procedure | 7 |
| | 3.3 | Test Result | 8 |
| 4 | List | of Measuring Equipment | 10 |
| Αp | pendi | ix A. Setup Photographs | |

Report Version

: 01

History of this test report

Report No.: FG220629001

| Report No. | Version | Description | Issue Date | |
|----------------|---------|-------------------------|---------------|--|
| FG220629001 01 | | Initial issue of report | Jul. 05, 2022 | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

TEL: 408 9043300 Page Number: 3 of 10
Report Template No.: BU5-FGLTE96.47 Version 2.0 Issued Date: Jul. 05, 2022

Report Version : 01

Summary of Test Result

Report No.: FG220629001

| 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.

Comments and Explanations:

The product specifications of the EUT presented in the report are declared by the manufacturer who shall take full responsibility for the authenticity.

TEL: 408 9043300 Page Number : 4 of 10

Report Template No.: BU5-FGLTE96.47 Version 2.0 Issued Date : Jul. 05, 2022

Report Version : 01

1 General Description

1.1 Product Feature of Equipment Under Test

WCDMA/LTE/5G NR

| Product Feature | | | | |
|-----------------|--------------|--|--|--|
| Antenna Type | PIFA Antenna | | | |

Remark: The above EUT's information was declared by manufacturer. Please refer to Comments and Explanations in report summary.

1.2 Modification of EUT

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

1.3 Testing Laboratory

| Test Site | Sporton International (USA) Inc. | | |
|--------------------|--|--|--|
| Test Site Location | 1175 Montague Expressway, Milpitas, CA 95035 TEL: 408 9043300 | | |
| Test Site No. | Sporton Site No. | | |
| rest Site No. | TH01-CA | | |
| Test Engineer | David Hung | | |
| Temperature | 26 °C | | |
| Relative Humidity | 46 % | | |

1.4 Applicable Standards

- FCC Part 96.47
- FCC KDB 940660 D01 Part 96 CBRS Eqpt v02
- 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 A2LA code is not including all the FCC KDB listed without accreditation.

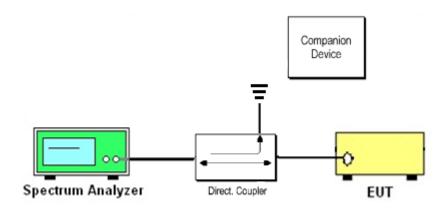
TEL: 408 9043300 Page Number : 5 of 10

Report Template No.: BU5-FGLTE96.47 Version 2.0 Issued Date : Jul. 05, 2022

Report Version : 01

2 Test Configuration of Equipment Under Test

2.1 Connection Diagram of Test System



The companion device is certified NR CBSD (FCC ID: PIDAS2900)

 TEL: 408 9043300
 Page Number
 : 6 of 10

 Report Template No.: BU5-FGLTE96.47 Version 2.0
 Issued Date
 : Jul. 05, 2022

Report Version : 01

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

Following procedure can be done by applying WINNF-TS-0122-V1.0.2 CBRS CBSD Test Specification, use the certified Airspan NR CBSD (FCC ID: PIDAS2900) as companion device to show compliance with Part 96.47 requirement for End User Device (EUD):

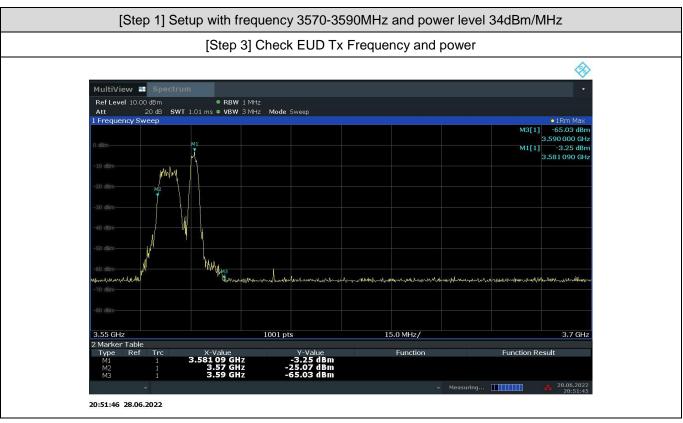
- 1. Setup with frequency 3570-3590MHz and power level 34dBm/MHz
- 2. Enable CBSD service from Airspan ACP management
- 3. Check EUD Tx Frequency and power
- 4. Disable CBSD service from Airspan ACP management
 - a. Check EUD stops transmission within 10seconds.
- 5. Setup with frequency 3670-3690MHz and power level 34dBm/MHz
- 6. Enable CBSD service from Airspan ACP management
- 7. Check EUD Tx Frequency and power
- 8. Disable CBSD service from Airspan ACP management
 - a. Check EUD stops transmission within 10seconds.

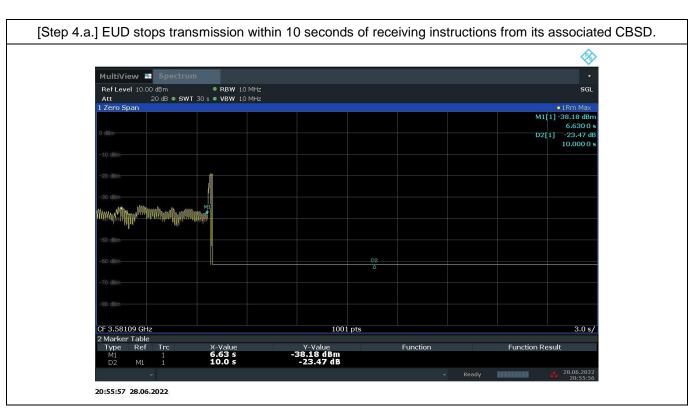
TEL: 408 9043300 Page Number : 7 of 10

Report Template No.: BU5-FGLTE96.47 Version 2.0 Issued Date : Jul. 05, 2022

Report Version : 01

3.3 Test Result





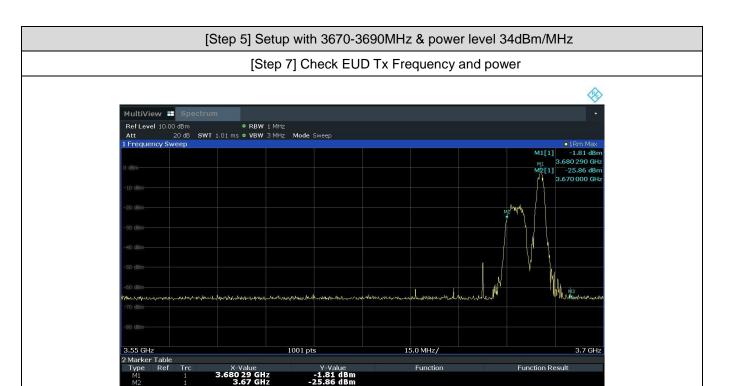
TEL: 408 9043300 Page Number : 8 of 10

Report Template No.: BU5-FGLTE96.47 Version 2.0 Issued Date : Jul. 05, 2022

Report Version : 01

SPORTON LAB. FCC RADIO TEST REPORT

21:06:53 28.06.2022



[Step 8.a.] After changing the frequency and power level,

The module (EUT) discontinues operations, change frequencies, or change its operational power level within 10 seconds of receiving instructions from its associated CBSD. Test result is PASS.



TEL: 408 9043300 Page Number : 9 of 10

Report Template No.: BU5-FGLTE96.47 Version 2.0 Issued Date : Jul. 05, 2022

Report Version : 01

4 List of Measuring Equipment

| Instrument | Brand Name | Model No. | Serial No. | Characteristics | Calibration Date | Test Date | Due Date | Remark |
|----------------------|------------|-----------|------------|-----------------|---------------------|---------------------------------|---------------|---------|
| Spectrum Analyzer | R&S | FSW43 | 104042 | 2Hz~43GHz | Nov. 18, 2021 | Jun. 28, 2022~ Jun. 29, 2022 | Nov. 17, 2022 | TH01-CA |

 TEL: 408 9043300
 Page Number
 : 10 of 10

 Report Template No.: BU5-FGLTE96.47 Version 2.0
 Issued Date
 : Jul. 05, 2022

Report Version : 01