FCC Part 96.47 TEST REPORT

FCC ID : AZ489FT7123

Equipment : NITRO Two-Way Radio
Brand Name : Motorola Solutions

Applicant : Motorola Solutions, Inc.

8000 West Sunrise Blvd., Ft Lauderdale, Florida

Report No.: FG931101B

: 01

Report Version

33322, United States

Manufacturer : Motorola Solutions, Inc.

8000 West Sunrise Blvd., Ft Lauderdale, Florida

33322, United States

Standard : FCC Part 96.47

The product was received on Mar. 11, 2019 and testing was started from Mar. 26, 2019 and completed on Mar. 26, 2019. We, SPORTON INTERNATIONAL 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 report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERTIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Approved by: Jones Tsai

SPORTON INTERTIONAL INC. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)

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Report Template No.: BU5- CR247WL5G AC MA Version 2.1

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History of this test report

Report No.: FG931101B

Report No.	Version	Description	Issued Date
FG931101B	01	Initial issue of report	Apr. 29, 2019

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: William Chen
Report Producer: Wii Chang

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Summary of Test Result

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

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1 General Description

1.1 Product Feature of Equipment Under Test

LTE, Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n, Wi-Fi 5GHz 802.11a/n, and GNSS

,				
Product Specification subjective to this standard				
	WWAN: Internal FPC Antenna & Fixed External Antenna			
Antonno Typo	WLAN: Internal FPC Antenna			
Antenna Type	Bluetooth: Internal FPC Antenna			
	GPS / Glonass / BDS / Galileo : Internal FPC Antenna			

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1.2 Modification of EUT

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

1.3 Testing Location

Test Site	SPORTON INTERNATIONAL INC.		
	No.52, Huaya 1st Rd., Guishan Dist.,		
Test Site Location	Taoyuan City, Taiwan (R.O.C.)		
lest Site Location	TEL: +886-3-327-3456		
	FAX: +886-3-328-4978		
Test Site No.	Sporton Site No.		
rest site NO.	DFS02-HY		

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

FCC Designation No.: TW1190

1.4 Applicable Standards

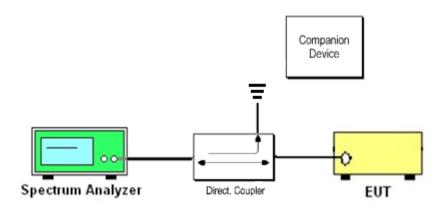
- FCC Part 96.47
- FCC KDB 940660 D01 Part 96 CBRS Eqpt v01
- WINNF-TS-0122-V1.0.0 CBRS CBSD Test Specification

Remark: All test items were verified and recorded according to the standards and without any deviation during the test.

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2 Test Configuration of Equipment Under Test

2.1 Connection Diagram of Test System



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The companion device is certified CBRS (FCC ID: S9GQ710US00)

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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.

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(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.

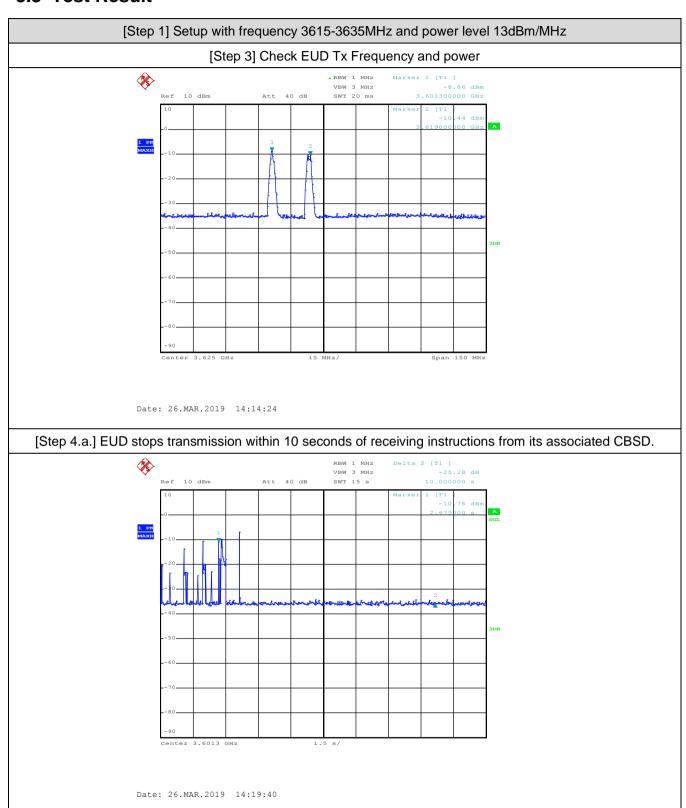
3.2 Test Procedure

Following procedure can be done by applying WINNF-TS-0122-V1.0.0 CBRS CBSD Test Specification, use the certified Ruckus CBSD (FCC ID: S9GQ910US00) as companion device to show compliance with Part 96.47 requirement for End User Device (EUD):

- 1. Setup with frequency 3600-3620MHz and power level 13dBm/MHz
- 2. Enable AP service from Ruckus Cloud management
- 3. Check EUD Tx Frequency and power
- 4. Disable AP service from Ruckus Cloud management
 - a. Check EUD stops transmission within 10seconds.
- 5. Setup with 3665-3685MHz & power level 8dBm/MHz
- 6. Enable AP service from Ruckus Cloud management
- 7. Check EUD Tx Frequency and power
- 8. Disable AP service from Ruckus Cloud management
 - a. Check EUD stops transmission within 10seconds.

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3.3 Test Result



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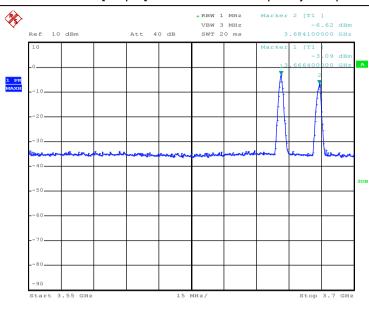
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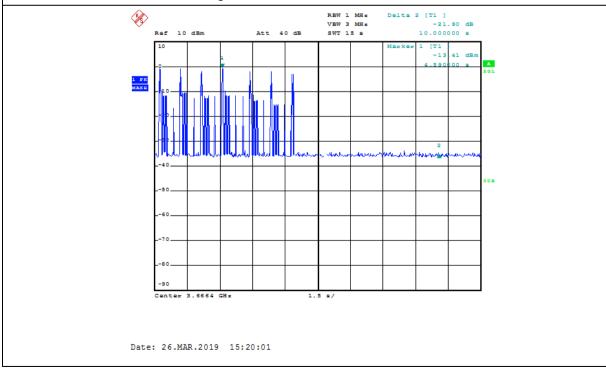
[Step 5] Setup with 3665-3685MHz & power level 8dBm/MHz [Step 7] Check EUD Tx Frequency and power



Date: 26.MAR.2019 15:17:33

[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.



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4 List of Measuring Equipment

Instrumen	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	Rohde & Schwarz	FSP30	101067	9kHz ~ 30Ghz	Nov. 15, 2018	Mar. 26, 2019	Nov. 14, 2019	DFS02-HY

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