

RF TEST REPORT

FCC Part 96.47

APPLICANT

SAMSUNG Electronics Co., Ltd.

MODEL NAME

SM-G736U

FCC ID

A3LSMG736U

REPORT NUMBER

HA220720-SSE-001-R05





TEST REPORT

Date of Issue

July 28, 2022

Test Site

Hyundai C-Tech, Inc. dba HCT America, Inc. 1726 Ringwood Ave, San Jose, CA 95131, USA

Applicant SAMSUNG Electronics Co., Ltd.

Applicant Address 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16777,

Rep. of Korea

FCC ID A3LSMG736U

Model Name SM-G736U

> Mobile phone **EUT Type**

FCC Classification Citizens Band End User Devices (CBE)

FCC Rule Part(s) §96.47

Test Procedure KDB 940660 D01 v01

WINNF-18-IN-00178 v1.0.0.00

The device bearing the trade name and model specified above, has been shown to comply with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures required. The results of testing in this report apply only to the product which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

Hyundai C-Tech, Inc. dba HCT America, Inc. certifies that no party to application has been denied the FCC benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C 862

> **Tested By Reviewed By** Sunwoo Kim Yongsoo Park

> > **Technical Manager**

Report No.: HA220720-SSE-001-R05

Test Engineer





REVISION HISTORY

The revision history for this document is shown in table.

TEST REPORT NO.	DATE	DESCRIPTION
HA220720-SSE-001-R05	07/24/2022	Initial Issue
HA220720-SSE-001-R05	07/28/2022	Revised test condition in summary of test results on page 8.





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1. GENERAL INFORMATION

RF SPECIFICATION SUBJECT TO THE REPORT

FCC ID:	A3LSMG736U			
RF Specification:	5G Sub6 n48			
Operating Frequency Range	5G Sub6 n48 3550 – 3700 MHz (UL/ DL)			
Tx Frequency:	3555.00 – 3694.98 : (Sub6 n48(10 MHz)) 3560.01 – 3690.00 : (Sub6 n48(20 MHz)) 3570.00 – 3679.98 : (Sub6 n48(40 MHz))			
Equipment Category:	Citizens Band End User Devices (CBE)			
Applicable Standard(s):	§96.47			
EUT Type:	Mobile Phone			
Model(s):	SM-G736U			
Additional Model(s):	SM-G736U1			
SCS(kHz):	30			
Bandwidth:	10 MHz / 20 MHz / 40 MHz			
Waveform:	CP-OFDM, DFT-S-OFDM			
Modulation Type:	DFT-S-OFDM: PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM CP-OFDM: QPSK, 16QAM, 64QAM, 256QAM			
Date(s) of Tests:	July 18, 2022 ~ July 22, 2022			
Serial number:	R3CT307YGRJ			





2. INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment's, which is traceable to recognized national standards. Especially, all antenna for measurement is calibrated in accordance with the requirements of C63.5 (Version : 2017).





3. FACILITIES AND ACCREDITATIONS

FACILITIES

The SAC (Semi-Anechoic Chamber) and conducted measurement facility used to collect the radiated data are located at 1726 Ringwood Avenue, San Jose, California 95131, USA.

The site is constructed in conformance with the requirements of ANSI C63.4. (Version :2014) and CISPR Publication 22.



EQUIPMENT

Radiated emissions are measured with one or more of the following types of Linearly polarized antennas: tuned dipole, bi-conical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with pre-selectors and quasi-peak detectors are used to perform radiated measurements.

Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers. Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

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4. SUMMARY OF TEST RESULTS

Test Description	FCC Part Section(s)	Test Limit	Test Condition	Test Result
End User Device Additional Requirements (CBSD Protocol)	§96.47	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. 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.	Radiated	PASS





5. DESCRIPTION OF TESTS

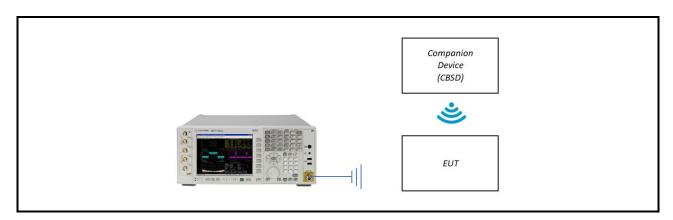
LIMIT

§96.47

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.

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.

TEST SETUP



TEST OVERVIEW

End user device additional requirements (CBSD Protocol) are tested per the test procedures listed below. During testing, the EUT is connected to a certified CBSD as a companion device to show compliance with Part 96.47. 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.

Test Channel & Power

- 1. Setup companion device with 3560 MHz 3580 MHz and power level 20 dBm
- 2. Setup companion device with 3600 MHz 3620 MHz and power level 10 dBm

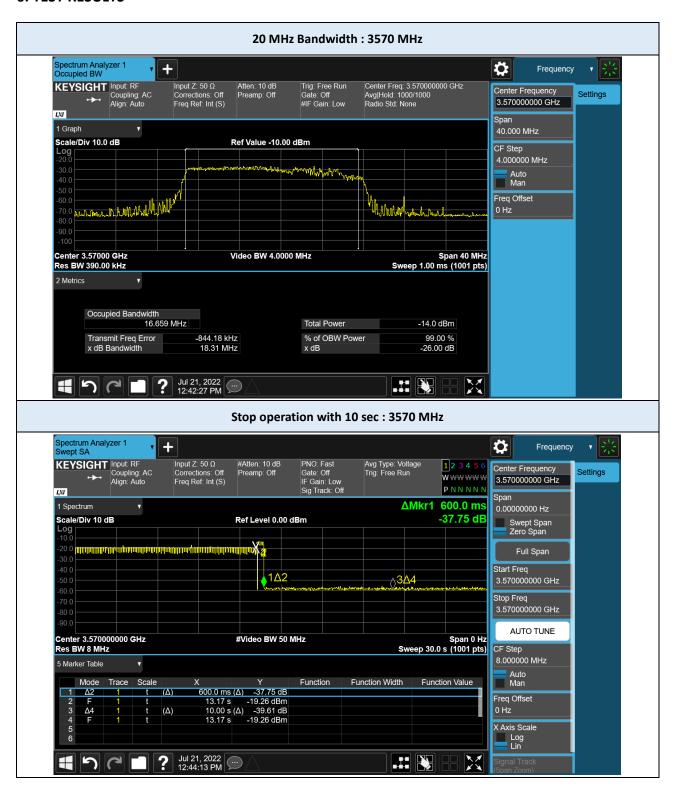
TEST PROCEDURE

- 1. Enable AP service from companion device.
- 2. EUT is connected to a companion device.
- 3. Check EUT Tx frequency and power.
- 4. Disable AP service from companion device and check EUT stop transmission within 10 s.





6. TEST RESULTS



Note:

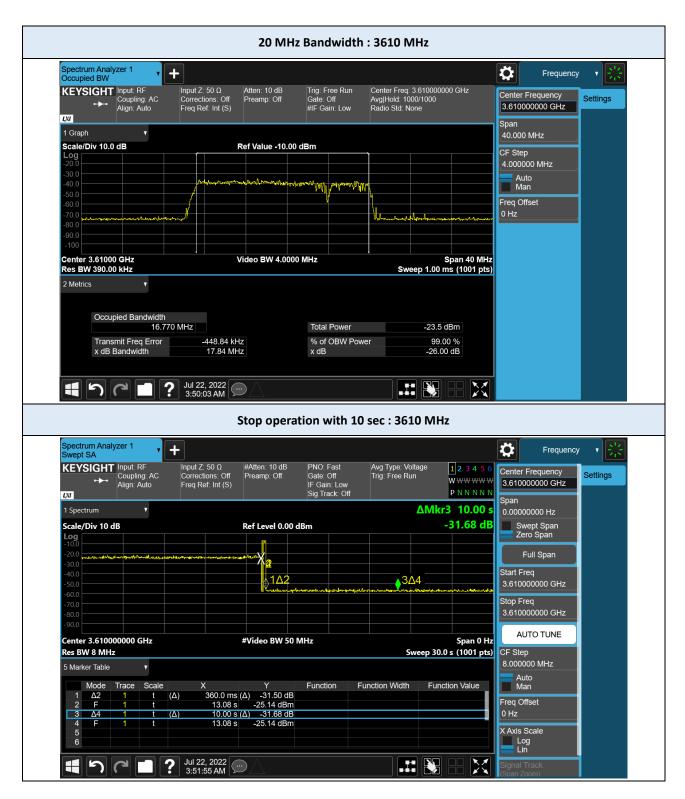
Marker 2: CBSD sends instructions to discontinue NR n48 operations.

Marker $1\triangle 2$: EUT discontinues operation. (600 ms)

Marker 3△4: 10 seconds elapsed time from CBSD sending instructions to EUT.(10.0 s)







Note:

Marker 2: CBSD sends instructions to discontinue NR n48 operations.

Marker 1△2: EUT discontinues operation. (360 ms)

Marker 3△4: 10 seconds elapsed time from CBSD sending instructions to EUT.(10.0 s)





7. LIST OF TEST EQUIPMENT

No.	Instrument	Model No.	Calibration Due (mm/dd/yy)	Manufacture	Serial No.
\boxtimes	Signal Analyzer (10 Hz ~ 26.5 GHz)	N9020B	07/14/2023	Keysight	MY57431494
\boxtimes	Horn Antenna (1 GHz ~ 18 GHz)	DRH-118	01/28/2023	Sunol Sciences	A061616
\boxtimes	Companion device (FCC ID: PIDAS2900)	AirSpeed 2900	-	Airspan Networks Inc	-

Note:

- 1. Equipment listed above that calibrated during the testing period was set for test after the calibration.
- 2. Equipment listed above that has a calibration due date during the testing period, the testing is completed before equipment expiration date





END OF TEST REPORT