

TEST REPORT

Report Number: 15103618-E12V2

Applicant : Sony Corporation

1-7-1 Konan Minato-Ku Tokyo, 108-0075, Japan

FCC ID: PY7-46195Y

EUT Description: LTE/5G Portable Data Transmitter with BT,

DTS/UNII a/b/g/n/ac/ax and GPS

Test Standard(s): FCC PART 96.47

Date Of Issue:

2024-03-21

Prepared by:

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REPORT NO: 15103618-E12V2 DATE: 2024-03-21 FCC ID: PY7-46195Y

Revision History

Rev.	Issue Date	Revisions	Revised By
V1	2024-03-01	Initial Issue	Steven Tran
V2	2024-03-21	Update Section 8, Configuration 2	Dan Coronia

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1. ATTESTATION OF TEST RESULTS

Applicant Name and Address	Sony Corporation 1-7-1 Konan Minato-ku Tokyo, 108-0075, Japan
Brand	SONY
FCC ID	PY7-46195Y
EUT Description	LTE/5G Portable Data Transmitter with BT, DTS/UNII a/b/g/n/ac/ax and GPS
Serial Number	QV7700ZQLA
Sample Receipt Date	2023-12-01
Date Tested	2024-02-16
Applicable Standards	FCC Title 47 CFR PART 96.47
Test Results	COMPLIES

UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. All samples tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise.

This document may not be altered or revised in any way unless done so by UL Verification Services Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. will constitute fraud and shall nullify the document.

Approved & Released By:	Prepared By:
Hlowii	Steventum
Dan Coronia	Steven Tran
Operations Leader	Project Engineer
UL Verification Services Inc.	UL Verification Services Inc.

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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with FCC Part 96.47, KDB 940660 D01 Part 96 CBRS Eqpt v03 and WINNF-TS-0122-v1.0.2.

3. FACILITIES AND ACCREDITATION

UL Verification Services Inc. is accredited by A2LA, certification #0751.05, for all testing performed within the scope of this report. Testing was performed at the locations noted below.

	Address	ISED CABID	ISED Company Number	FCC Registration
	Building 1: 47173 Benicia Street, Fremont, CA 94538, USA			
\boxtimes	Building 2: 47266 Benicia Street, Fremont, CA 94538, USA	US0104	2324A	550739
	Building 3: 843 Auburn Court, Fremont, CA 94538 USA			
	Building 4: 47658 Kato Rd, Fremont, CA 94538 USA			
	Building 5: 47670 Kato Rd, Fremont, CA 94538 USA			

4. DECISION RULES AND MEASUREMENT UNCERTAINTY

METROLOGICAL TRACEABILITY 4.1.

All test and measuring equipment utilized to perform the tests documented in this report are calibrated on a regular basis, with a maximum time between calibrations of one year or the manufacturers' recommendation, whichever is less, and where applicable is traceable to recognized national standards.

4.2. **DECISION RULES**

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4:2012 Clause 8.2. (Measurement uncertainty is not taken into account when stating conformity with a specified requirement.)

4.3. **MEASUREMENT UNCERTAINTY**

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	U_Lab
Worst Case Conducted Disturbance, 9KHz to 0.15 MHz	3.78 dB
Worst Case Conducted Disturbance, 0.15 to 30 MHz	3.40 dB
Worst Case Radiated Disturbance, 9KHz to 30 MHz	2.87 dB
Worst Case Radiated Disturbance, 30 to 1000 MHz	6.01 dB
Worst Case Radiated Disturbance, 1000 to 18000 MHz	4.73 dB
Worst Case Radiated Disturbance, 18000 to 26000 MHz	4.51 dB
Worst Case Radiated Disturbance, 26000 to 40000 MHz	5.29 dB

Uncertainty figures are valid to a confidence level of 95%.

4.4. **MEASURING INSTRUMENT CALIBRATION**

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

LTE/5G Portable Data Transmitter with BT, DTS/UNII a/b/g/n/ac/ax and GPS

5.2. SOFTWARE AND FIRMWARE

The test utility software used during testing was 0.143.

5.3. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List					
Description	Manufacturer	Model Serial Number		FCC ID	
Laptop and AC/DC adapter	Lenovo	20NYS1GL00	MJ0C6F8E	-	

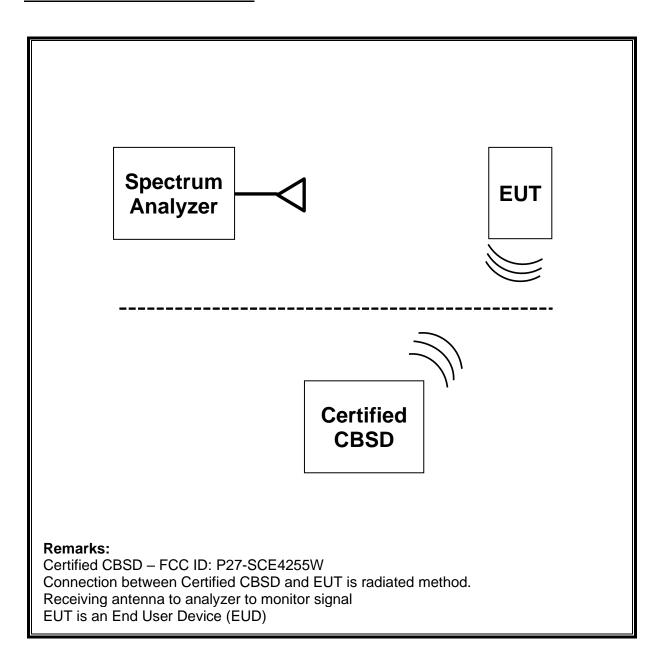
I/O CABLES

	I/O Cable List							
Cable	Port	# of identical	Connector	Cable Type	Cable	Remarks		
No		ports	Туре		Length (m)			
1	AC	1	AC	Un-Shielded	1	N/A		
3	RJ45	3	Ethernet	Un-Shielded	1	N/A		
2	RF Port	2	SMA	Shielded	0.5	N/A		

TEST SETUP

The standalone EUT connected to a certified CBSD and Spectrum Analyzer via air and an RF cable respectively.

SETUP DIAGRAM OF TEST SYSTEM



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6. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

Test Equipment List							
Description Manufacturer Model ID Num Cal Due							
Spectrum Analyzer, PXA, 3Hz to 44GHz	Agilent (Keysight) Technologies	N9030A	80400	02/25/2025			
Mount Antenna	Wilson Amplifiers	301126	-	-			
Mosolabs Englewood B48 LTE AP	Mosolabs	SCE4255W	2206CW6000010	-			

TEL: (510) 771-1000

7. END USER DEVICE ADDITIONAL REQUIREMENT

7.1. 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.

8. TEST PROCEDURE AND EUT CONFIGURATION

KDB 940660 D01 Part 96 CBRS v03, WINNF-TS-0122 V1.0.2

Additional requirements are required to End-User Device n48 device base on CBSD protocol. During the test, the EUT and its companion certified CBSD (FCC ID: P27-SCE4255W) device communicate with each other via air. Plots are captured and measurements are done over the air, in which the path loss is not accounted for the correction of the output power.

Configuration	Frequency (MHz)	Power (dBm/MHz)	Bandwidth (MHz)
1	3670	15	20
2	3690	10	20

Configuration 1

- a) Setup CBSD with 3670MHz and power level 15 dBm/MHz
- b) Enable B48 service from CBSD admin control panel
- c) Check EUT Transmitter Frequency and power
- d) Disable B48 service from CBSD admin control panel and check EUT stop transmission within 10s.

Configuration 2

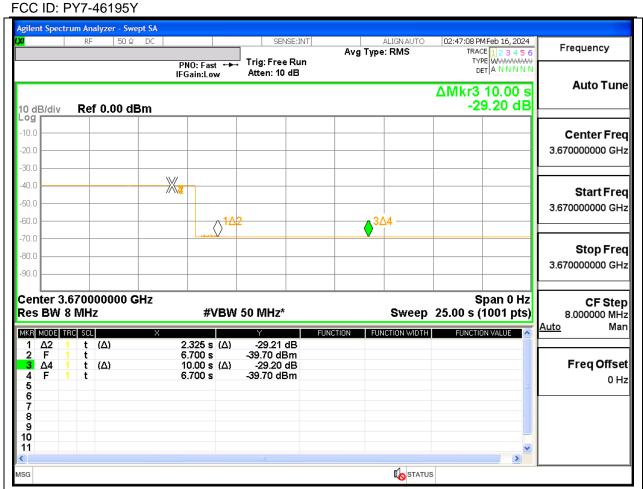
- a) Enable B48 service from Airspan admin control panel, then the frequency 3690MHz and power level 10 dBm/MHz come up automatically.
- b) Check EUT Transmitter Frequency and power
- c) Disable B48 service from CBSD admin control panel and check EUT stop transmission within 10s.

TEST RESULTS

Test Engineer ID: 39317 **Test Date:** 2024-02-16

8.1. END USER DEVICE CONFIGURATION 1 (3670MHz; MaxEIRP: 15 dBm/MHz)





Stop Operation Within 10 second Mode

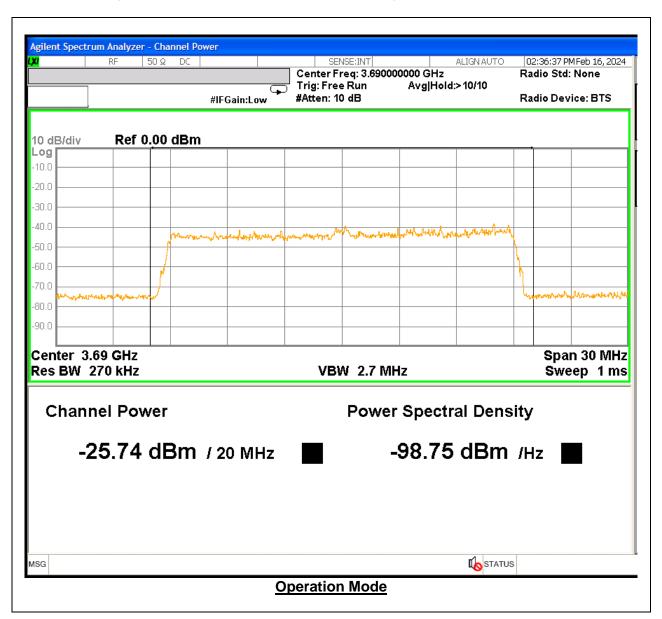
NOTE:

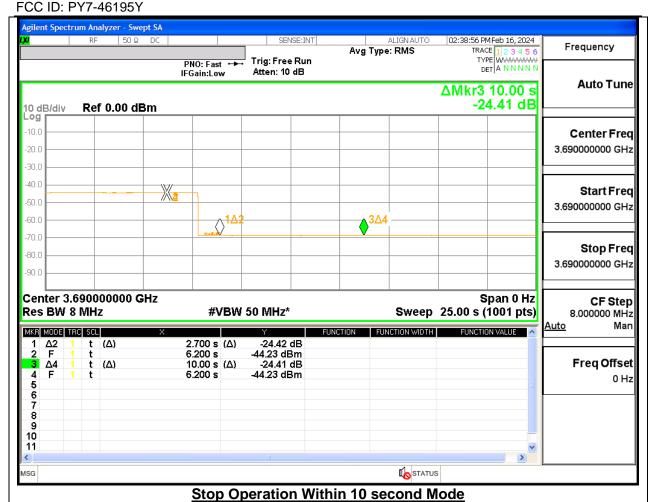
Marker 1: Authorized CBSD sends a signal to stop B48 transmission.

Marker 2: Time elapsed since signal to stop B48 transmission. EUD has stopped transmission.

Marker 3-4 Delta: 10 seconds has elapsed since CBSD has sent a signal to stop B48 transmission to EUT.

8.2. END USER DEVICE CONFIGURATION 2 (3690MHz; MaxEIRP: 10 dBm/MHz)





NOTE:

Marker 1: Authorized CBSD sends a signal to stop B48 transmission.

Marker 2: Time elapsed since signal to stop B48 transmission. EUD has stopped transmission.

Marker 3-4 Delta: 10 seconds has elapsed since CBSD has sent a signal to stop B48 transmission to EUT.