

FCC PART 96.47 CBSD-EUD TEST
REPORT

Applicant: Sercomm Corporation
8F, No. 3-1, YuanQu St., NanKang, Taipei 115, Taiwan,
R.O.C.

Manufacturer: Sercomm Corporation
8F, No. 3-1, YuanQu St., NanKang, Taipei 115, Taiwan,
R.O.C.

Product Name: RedCap REL17 Mobile Adapter

Brand Name: MOSO networks

Model No.: Connect 5GRC

Report Number: TERF2502000676ER

FCC ID P27-CONNECT5GRC

Date of EUT Received: February 10, 2025

Date of Test: February 11, 2025 ~ February 25, 2025

Issue Date: March 14, 2025

CHUN, CHIEH, CHEN

Approved By

Chun Chieh Chen

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.26-2015 and the energy emitted by the sample EUT comply with FCC rule part 2 , 96.47.

The results of this report relate only to the sample identified in this report.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
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Revision History					
Report Number	Revision	Description	Issue Date	Revised By	Remark
TERF2502000676ER	00	Original	March 7, 2025	Yuri Tsai	
TERF2502000676ER	01	Update section3.2	March 14, 2025	Yuri Tsai	*

Note:

- 1、The remark "*" indicates modification of the report upon requests from certification body.

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1. GENERAL PRODUCT INFORMATION

1.1. Product Description

Product Name:	RedCap REL17 Mobile Adapter
Brand Name:	MOSO networks
Model No.:	Connect 5GRC
Hardware Version:	N/A
Firmware Version:	N/A
EUT Series No.:	2501DYT000028
Power Supply:	INPUT: AC100~240V OUTPUT: DC12V
Test Software (Name/Version)	Connctet with callbox

1.2. Antenna Designation

Antenna Type	Antenna Model No.
Monopole	6172200FSG
Note: Transmission frequencies in this test report are only available by the above antenna(s).	

Modulation	Frequency (MHz)	Peak Antenna Gain (dBi)
n48	3550 ~ 3700	3.5

Note: Antenna information is provided by the applicant.

1.3. Operation Frequencies

NR Band 48			
BW (MHz)	Operation Frequency (MHz)		
10	3555.0	-	3695.0
15	3557.5	-	3692.5
20	3560.0	-	3690.0

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1.4. Maximum ERP/EIRP

5G NR Band n48_Part96_Uplink frequency band : 3550 to 3700 MHz									
Bandwidth (MHz)	Low Frequency (MHz)	Upper Frequency (MHz)	Modulation	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (MHz)	99% BW (kHz)	Type of Emission
10	3555	3694.98	DFT-s PI/2 BPSK	18.48	21.98	0.158	8.6474	8647.4	8M65G7W
			DFT-s QPSK	18.29	21.79	0.151	8.6362	8636.2	8M64G7W
			DFT-s QAM	18.28	21.78	0.151	8.7173	8717.3	8M72D7W
			CP QPSK	18.35	21.85	0.153	8.6362	8636.2	8M64G7W
			CP QAM	18.18	21.68	0.147	8.7173	8717.3	8M72D7W
15	3557.52	3692.49	DFT-s PI/2 BPSK	18.84	22.34	0.171	12.903	12903.0	12M9G7W
			DFT-s QPSK	18.53	22.03	0.160	12.928	12928.0	12M9G7W
			DFT-s QAM	18.77	22.27	0.169	12.932	12932.0	12M9D7W
			CP QPSK	18.33	21.83	0.152	12.928	12928.0	12M9G7W
			CP QAM	18.59	22.09	0.162	12.932	12932.0	12M9D7W
20	3560.01	3690	DFT-s PI/2 BPSK	18.59	22.09	0.162	17.887	17887.0	17M9G7W
			DFT-s QPSK	18.54	22.04	0.160	17.994	17994.0	18M0G7W
			DFT-s QAM	18.46	21.96	0.157	17.939	17939.0	17M9D7W
			CP QPSK	18.40	21.90	0.155	17.994	17994.0	18M0G7W
			CP QAM	18.46	21.96	0.157	17.939	17939.0	17M9D7W

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1.5. Test Methodology of Applied Standards

FCC Part 96.47

FCC KDB 940660 D01 Part 96 CBRS Eqpt V03

1.6. Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designation number	IC CAB identifier
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan.	SAC 1	TW0027	TW3702
		SAC 2		
		SAC 3		
		Conduction 1		
		Conducted 1		
		Conducted 2		
		Conducted 3		
		Conducted 4		
		Conducted 5		
		Conducted 6		
	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conduction C	TW0028	
		SAC C		
		SAC D		
		SAC G		
		Conducted A		
		Conducted B		
		Conducted C		
		Conducted D		
		Conducted E		
		Conducted F		
Conducted G				
Note: Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.				

1.7. Special Accessories

No special accessories were used during testing.

1.8. Equipment Modifications

There was no modifications incorporated into the EUT.

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2. SUMMARY OF TEST RESULTS

2.1. Summary of test results

FCC Rules	Description Of Test	Result
§96.47(a) (1)	End User Device additional requirements	Compliant

2.2. Reporting statements of conformity

The conformity statement in this report is based solely on the test results, measurement uncertainty is excluded.

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3. MEASUREMENT

3.1. End User Device additional requirements

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. Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

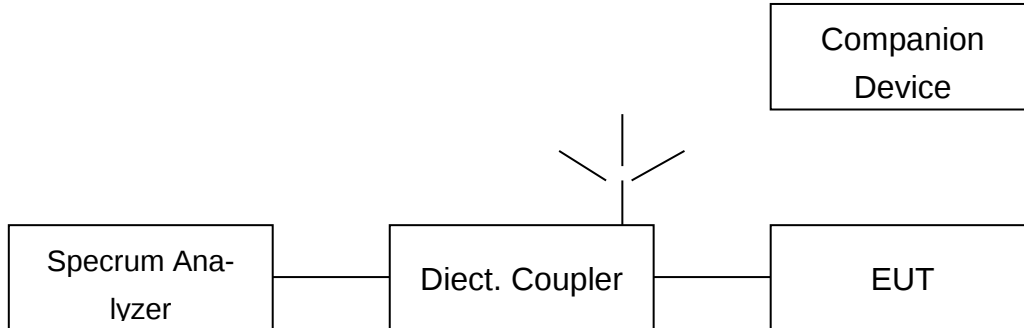
1. Setup with frequency 3625MHz and power level 20dBm/MHz
2. Enable AP service from EPC management
3. Check EUD Tx Frequency and power
4. Disable AP service from EPC management
 - a. Check EUD stops transmission within 10seconds.
5. Setup with 3670MHz & power level 13dBm/MHz
6. Enable AP service from EPC management
7. Check EUD Tx Frequency and power
8. Disable AP service from EPC management
 - a. Check EUD stops transmission within 10seconds.

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3.3. Test Configuration of Equipment Under Test:

Connection Diagram of Test System



The EUT is an End User Device (EUD) which was connected to a certified mosolabs CBSD (FCC ID: P27-SCE5164-B48 and qualified by WinnForum) as the companion device to show compliance with Part 96.47 requirement.

3.4. Measurement Equipment Used

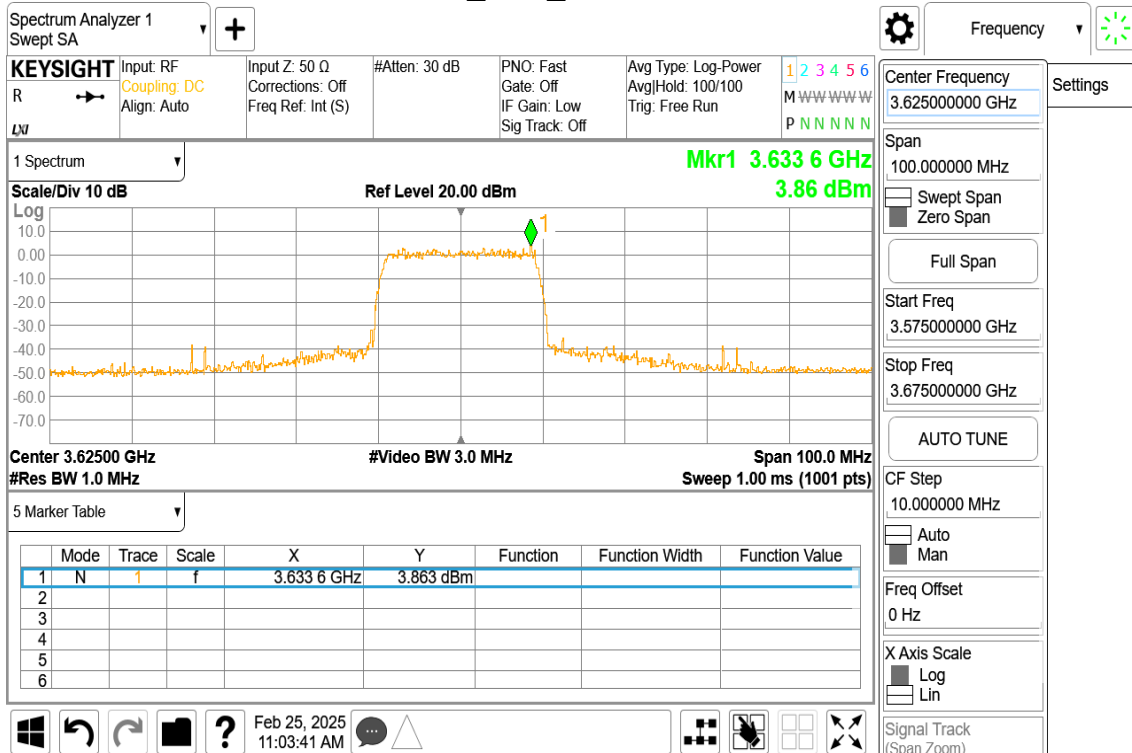
Conducted Emission Test Site: Conducted 5					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
DC Block	Mini-Circuits	BLK-18-S+	4	12/11/2024	12/10/2025
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY59071406	06/25/2024	06/24/2025
Splitter	RF-LAMBAD	RFLT2W1G18G	11-JSPF412-020	12/11/2024	12/10/2025
Splitter	RF-LAMBAD	RFLT2W1G18G	18112200202	12/11/2024	12/10/2025
Conducted Emission Test Site: Conducted 5					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
AC Adapter	MASS POWER	S065-1B120400VU-V	N/A	N/A	N/A
CBSD	mosolabs	SCE5164-B48	SN:DR600C0000139 FCC ID:P27-SCE5164-B48	N/A	N/A
Notebook	DELL	P137G	GQL1WT3	N/A	N/A
Notebook	Lenovo	L480	PF-1D07MD 19/08	N/A	N/A
Notebook	Lenovo	T14	PF-2Z8BWW	N/A	N/A
Switch	NETGEAR	GS324v2	6XR126D551239	N/A	N/A

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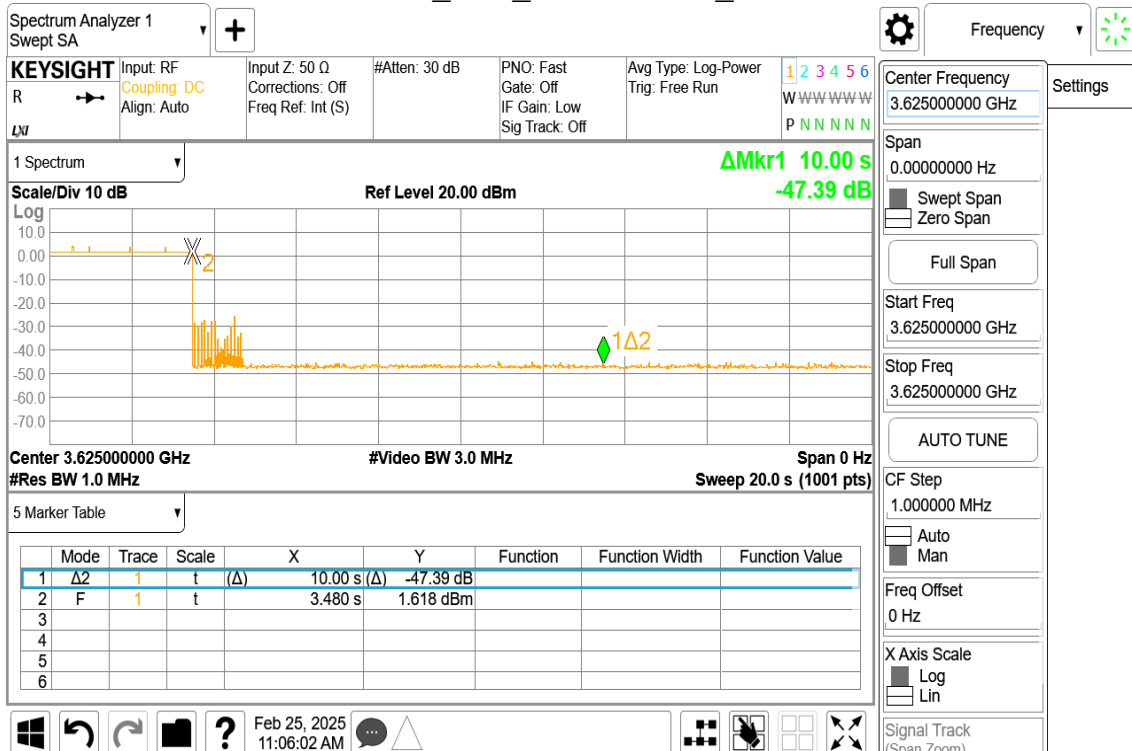
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3.5. Measurement Result

3625_20M_EIRP 20dBm



3625_20M_EIRP 20dBm_10s

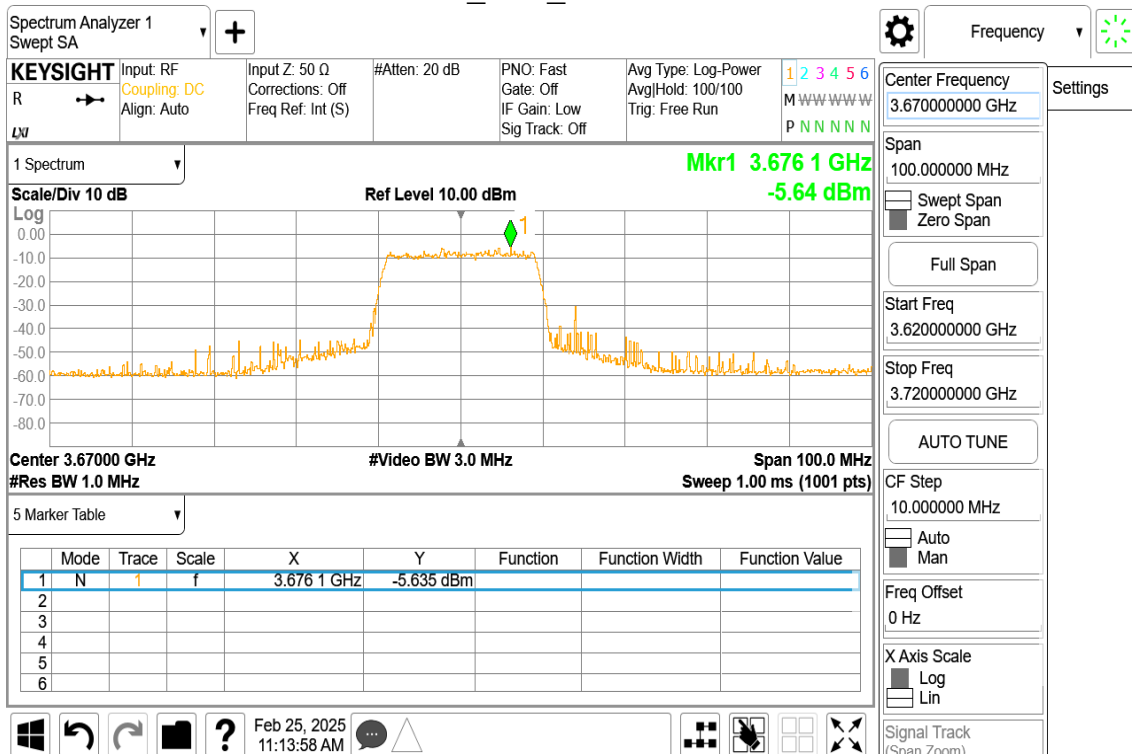


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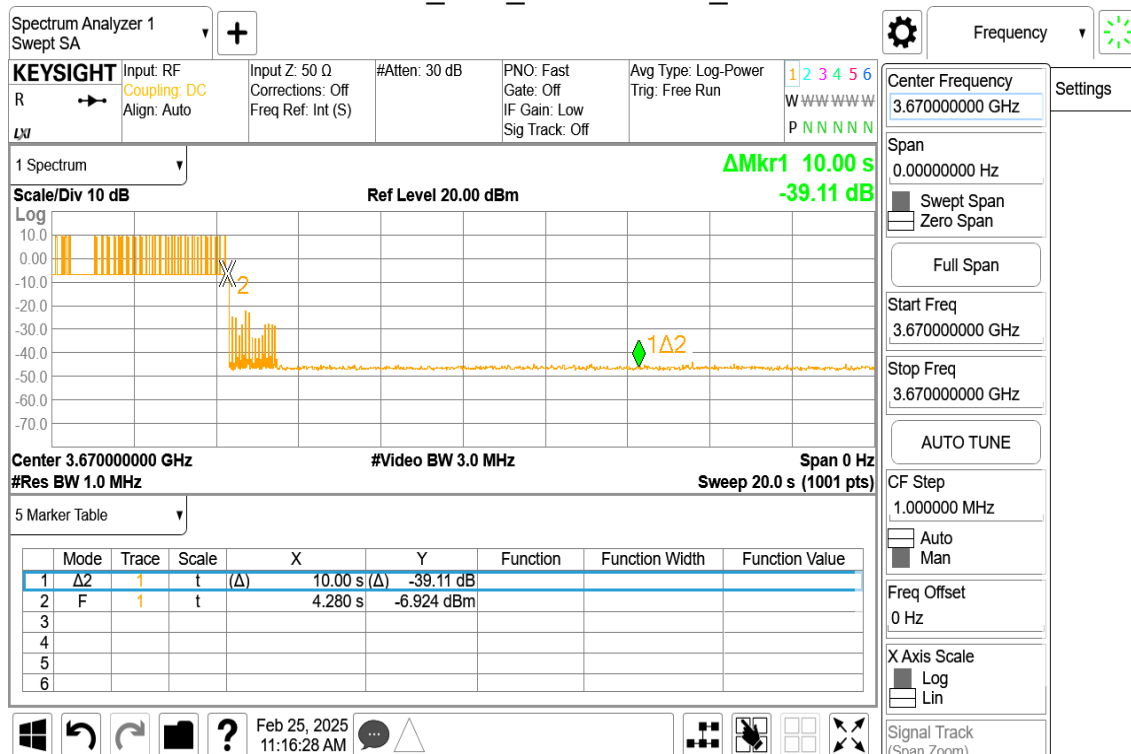
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3670_20M_EIRP 13dBm



3670_20M_EIRP 13dBm_10s



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4. PHOTOGRAPHS OF SET UP

Please refer to the attached file (Setup Photo)

5. PHOTOGRAPHS OF EUT

Please refer to the attached file(EUT Photo)

~ End of Report ~

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