

**ELECTROMAGNETIC EMISSIONS
COMPLIANCE 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: TERF2502000675ER

FCC ID P27-CONNECT5GRC

Date of EUT Received: February 10, 2025

Date of Test: February 11, 2025 ~ February 27, 2025

Issue Date: March 14, 2025

Approved By

CHUN-CHIEH, CHEN

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.

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

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TERF2502000675ER	00	Original	March 7, 2025	Yuri Tsai	
TERF2502000675ER	01	Update section3 & 12.4	March 14, 2025	Yuri Tsai	*

Note:

- 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.:	2501DYT000006
Power Supply:	INPUT: AC100~240V OUTPUT: DC12V
Test Software (Name/Version)	Connect wih 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 47 CFR Part 2, Part 96E

ANSI C63.26-2015

ANSI/ITA C603-E.2016

KDB 971168 D01 Power Meas license Digital System v03r01

KDB 940660 D01 Part 96 CBRS Eqpt v02

KDB 412172 D01 Determining ERP and EIRP V01r01

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.

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1.7 Special Accessories

No special accessories were used during testing.

1.8 Equipment Modifications

There was no modifications incorporated into the EUT.

1.9 Radiated Emission Test Sites For Measurements From 9 kHz To 30 MHz

Radiated emission below 30MHz is measured in a 9m*9m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

The EUT (Transmitter) was operated in the continuous transmission mode employed with the simulator of the Base Station that fixates at test default channels to fix the Tx frequency which was for the purpose of the measurements.

2.3 Test Procedure

2.3.1 Conducted Measurement at Antenna Port

The EUT is placed on a table which is 0.8 m above ground plane. A low loss of RF cable was used to connect the antenna port of EUT to measurement equipment.

2.3.2 Radiated Emissions (ERP/EIRP)

The EUT is placed on a turn table, for emission measurements below 1 GHz is 0.8 m above ground plane, for emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both Horizontal and Vertical. In order to find out the max. emission, the relative positions of this transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

2.4 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.

Note:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

2.5 Final Amplifier Voltage and Current Information:

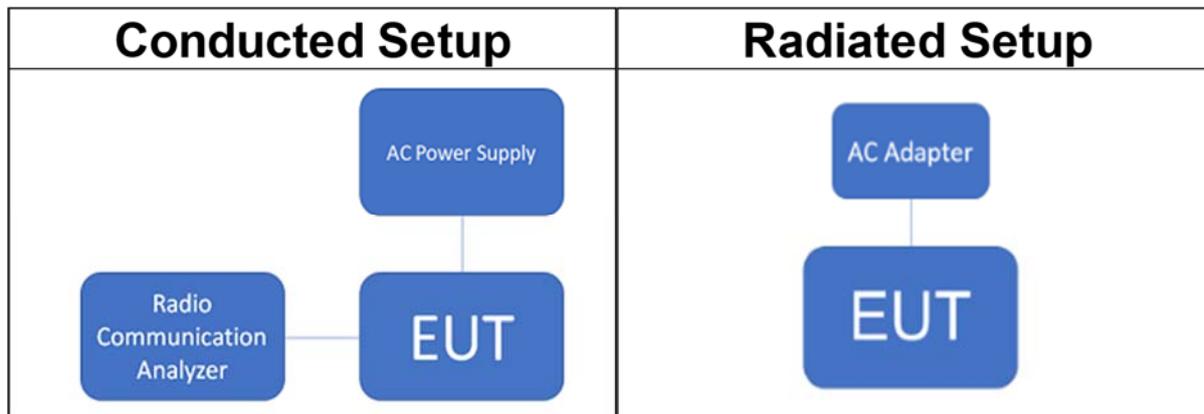
5G NR BAND n48		
CP-OFDM_SCS 30 kHz		
Test mode	AC voltage (V)	DC current (mA)
Bandwidth:10MHz Mod:256QAM	120	67
Bandwidth:15MHz Mod:256QAM	120	66
Bandwidth:20MHz Mod:256QAM	120	69

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2.6 Test Configuration



Note: Radio Communication Analyzer is placed in remote side for radiated test.

2.7 Control Unit(s)

Conducted Emission Test Site: Conducted 3					
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
Radiated Emission Test Site: SAC 3					
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

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3 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§2.1046(a) §96.41(b)	Maximum Power Output	Compliant
§2.1046, §96.41(b)	Maximum Power Density	Compliant
§2.1053, §96.41(e)	FIELD STRENGTH OF SPURIOUS RADIATION	Compliant
§2.1051 §96.41(e)	OUT OF BAND EMISSION AT ANTENNA	Compliant
§96.41(g)	PEAK TO AVERAGE RATIO	Compliant
§2.1049,(h)	OCCUPIED BANDWIDTH	Compliant
§2.1055(a)	Frequency Stability	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. Pre-Scan has been conducted to determine the worst-case scenario from all possible combinations among available modulations, data rates and antenna ports, the worst case configurations listed below for the final test.
3. The field strength of radiated emission was measured as the EUT positioned in different orthogonal planes (E1/E2/H) based on actual usage of the EUT to pre-scan the emissions for determining the worst case scenario.

4.2 Measurement Configuration

Test Items	Band	Test Channel			Bandwidth (MHz)																Modulation DFT-s-OFDM					Modulation CP-OFDM				RB #						
		L	M	H	5	10	15	20	25	30	40	45	50	60	70	80	90	100	BPSK	QPSK	16 OAM	64 OAM	256 OAM	GPSK	16 OAM	64 OAM	256 OAM	Edge 1RB_Left	Edge 1RB_Right	Inner 1RB_Left	Inner 1RB_Right	Inner Full	Outer Full			
Conducted Power	48 (par96)	v	v	v		v	v	v											v	v	v	v	v	v	v	v					v	v	v	v		
Frequency Stability		v	v																																	v
Occupied Bandwidth		v	v	v		v	v	v												v	v	v	v	v												v
Bandedge		v	v	v		v	v	v												v								v	v							v
Conducted Emission		v	v	v		v	v	v												v																v
CCDF		v	v	v		v	v	v																v												v
Radiated Emission		v	v	v		v														v																v

5G NR Band	SCS	Test Channel	Channel Bandwidth (MHz)	Modulation	Resource Block Allocation	
					RBs allocated	RB Offset
n48	30K	637168	15	DFT-s PI/2 BPSK	1	1
n48	30K	641668	15	DFT-s PI/2 BPSK	1	1
n48	30K	646166	15	DFT-s PI/2 BPSK	1	1

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
Power Density	+/- 0.61 dB
RF Power Output	+/- 0.97 dB
ERP/ EIRP measurement	+/- 2.15 dB
	+/- 2.15 dB
Emission Bandwidth	+/- 1.38 Hz
Out of Band Emissions at Antenna Terminals and Band Edge	+/- 0.77 dB
Peak to Average Ratio	+/- 0.97 dB
Frequency Stability vs. Temperature	+/- 1.48 Hz
Frequency Stability vs. Voltage	+/- 1.48 Hz
Temperature	+/- 0.6 °C
Humidity	+/- 3 %
DC / AC Power Source	+/- 1 %

Radiated Spurious Emission Measurement Uncertainty				
Polarization: Vertical	+/-	1.89	dB	9kHz~30MHz
	+/-	4.15	dB	30MHz - 1000MHz
	+/-	3.43	dB	1GHz - 18GHz
	+/-	3.86	dB	18GHz - 40GHz
Polarization: Horizontal	+/-	1.89	dB	9kHz~30MHz
	+/-	4.02	dB	30MHz - 1000MHz
	+/-	3.43	dB	1GHz - 18GHz
	+/-	3.86	dB	18GHz - 40GHz
Radiated Spurious Emission	+/-	2	dB	33GHz-50GHz
	+/-	1.59	dB	50GHz-60GHz
	+/-	1.7	dB	60GHz-90GHz
	+/-	1.64	dB	90GHz-140GHz
	+/-	3.83	dB	140GHz-220GHz

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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6 MEASUREMENT EQUIPMENT USED

6.1 Conducted Measurement

Conducted Emission Test Site: Conducted 3					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
AC Power Source	Gwinstek	APS-7050E	GEV171679	11/08/2024	11/07/2025
Attenuator	Mini-Circuits	BW-S10W2+	4	12/11/2024	12/10/2025
DC Block	Mini-Circuits	BLK-18-S+	11	12/11/2024	12/10/2025
PXA Spectrum Analyzer	Keysight	N9030B	MY61330494	03/22/2024	03/21/2025
Radio Communication Analyzer	KEYSIGHT	E7515B	MY60191250	02/17/2025	02/16/2026
Splitter	RF-LAMBAD	RFLT2W1G18G	11-JSPF412-017	12/11/2024	12/10/2025
Test Software	SGS	Radio Test Software	Ver. 21	N.C.R	N.C.R

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6.2 Radiated Measurement

Radiated Emission Test Site: SAC 3					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
4G High Pass Filter	WI	WHKX4.0	22	12/11/2024	12/10/2025
Attenuator	Mini-Circuits	BW-S10W2+	16	12/11/2024	12/10/2025
Band Reject Filter 3250-3750	Micro-Tronics	BRM15247	1	12/11/2024	12/10/2025
Bi-log Antenna	SCHWARZBECK	VULB9168	1208	07/17/2024	07/16/2025
Bi-log Antenna	SCHWARZBECK	VULB9168	378	08/09/2024	08/08/2025
Coaxial Cables	EMCI+Huber Suhner	EMC107-SM-SM- 1000 +SUCOFLEX 104PEA +EMC107-SM-SM- 1500 +SUCOFLEX 106	RX Cable 9K-18G (221110+MY4251/4 PEA+221106+76096 /6)	08/30/2024	08/29/2025
Coaxial Cables	Huber Suhner	SUCOFLEX 102	RX Cable 18G-40G MY2630/2+805062/ 2	08/30/2024	08/29/2025
Coaxial Cables	Huber Suhner	SUCOFLEX 102+SUCOFLEX 106	TX Cable 30M-40G 23051/2+76096/6+2 2962/2	08/30/2024	08/29/2025
EMI Test Receiver	R&S	ESCI 7	100759	08/28/2024	08/27/2025
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY63440386	02/05/2025	02/04/2026
Horn Antenna	RF SPIN	DRH0844	LE2D05A0844	07/10/2024	07/09/2025
Horn Antenna	SCHWARZBECK	BBHA9120D	1441	09/23/2024	09/22/2025
Horn Antenna	SCHWARZBECK	BBHA9120D	603	05/15/2024	05/14/2025
Horn Antenna	SCHWARZBECK	BBHA9170	184	12/20/2024	12/19/2025
Network Analyzer	R&S	ZNB 40	101842	05/16/2024	05/15/2025
Pre-Amplifier	EMCI	EMC118A45SEE	980868	08/30/2024	08/29/2025
Pre-Amplifier	EMCI	EMC184045SEE	9080939	08/30/2024	08/29/2025
Pre-Amplifier	HP	8447D	2944A07676	08/30/2024	08/29/2025
Radio Communication Analyzer	Anritsu	MT8820C	6201465317	03/26/2024	03/25/2025
Radio Communication Analyzer	Anritsu	MT8821C	6262044670	08/23/2024	08/22/2025
Radio Communication Analyzer	KEYSIGHT	E7515B	MY59321561	07/11/2024	07/10/2025
Site Cal	SGS	SAC 3	N/A	08/30/2024	08/29/2025
Test Software	Audix	e3	Ver. 9.210616	N.C.R	N.C.R

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7 MAXIMUM OUTPUT POWER MEASUREMENT

7.1 Standard Applicable

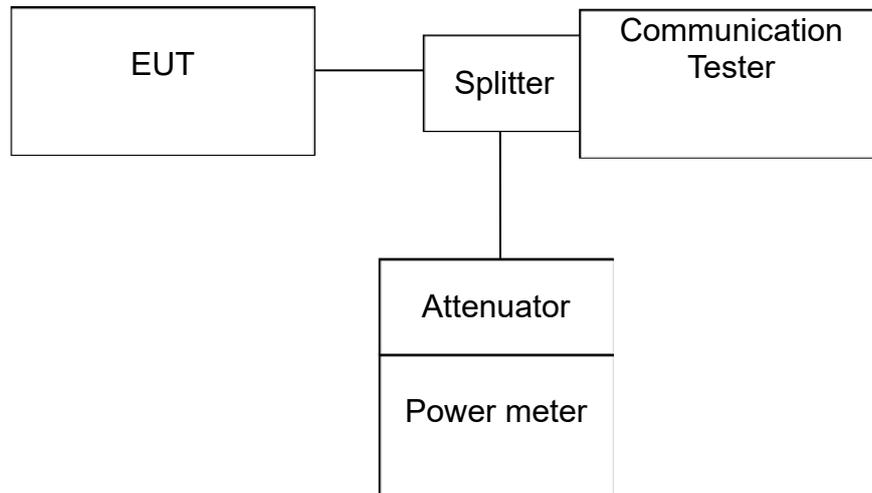
FCC §2.1046 & 96.41

- (a) FCC 96.41(a) Digital modulation. Systems operating in the Citizens Broadband Radio Service must use digital modulation techniques.
- (b) FCC 96.41(b) Power limits. Unless otherwise specified in this section, the maximum effective isotropic radiated power (EIRP) of any CBSD and End User Device must comply with the limits shown in the table in this paragraph (b):

Device	Maximum EIRP (dBm/10 MHz)
End User Device	23
Category A CBSD	30
Category B CBSD ¹	47

Category B CBSDs will only be authorized for use after an ESC is approved and commercially deployed consistent with §§96.15 and 96.67.

7.2 Test Set-up



Note: Measurement setup for testing on Antenna connector

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7.3 Measurement Procedure

The transmitter output was connected to a calibrated attenuator, the other end of which was connected to a power meter. Transmitter output was read off the power meter in dBm. The power output at the transmitter antenna port was determined by adding the value of the attenuator to the power meter reading.

Determining ERP and/or EIRP from conducted RF output power measurements

$$\text{ERP/EIRP} = \text{PMeas} + \text{GT-LC}$$

Where:

ERP/EIRP = effective or equivalent radiated power, respectively (expressed in the same units as PMeas, typically dBW or dBm);

PMeas = measured transmitter output power or PSD, in dBm or dBW;

GT = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP)

LC = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

For devices utilizing multiple antennas, KDB 662911 provides guidance for determining the effective array transmit antenna gain term to be used in the above equation.

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7.4 Measurement Result:

5G NR Band n48_part96: 3550 to 3700 MHz				Conducted Average (dBm)			EIRP (dBm)			
Antenna Gain(dBi)		3.5		Channel (ARFCH)/ Frequency(MHz)			Channel (ARFCH)/ Frequency(MHz)			
EIRP Limit (dBm)		23dBm/10MHz		Low	Mid	High	Low	Mid	High	
BW (MHz)	SCS (kHz)	Modulation	RB Allocation	RB Offset	637000	641668	646332	637000	641668	646332
					3555	3625.02	3694.98	3555	3625.02	3694.98
10	30	DFT-s PI/2 BPSK	1	1	18.48	18.21	18.28	21.98	21.71	21.78
			1	22	18.46	18.06	18.23	21.96	21.56	21.73
			12	6	18.32	18.14	18.03	21.82	21.64	21.53
			24	0	18.24	17.62	18.00	21.74	21.12	21.50
		DFT-s QPSK	1	1	18.10	17.88	18.25	21.60	21.38	21.75
			1	22	18.22	17.73	18.25	21.72	21.23	21.75
			12	6	18.21	17.64	18.02	21.71	21.14	21.52
		DFT-s 16QAM	24	0	18.29	17.62	17.98	21.79	21.12	21.48
			1	1	18.28	17.82	17.98	21.78	21.32	21.48
		DFT-s 64QAM	1	1	18.18	17.92	17.97	21.68	21.42	21.47
		DFT-s 256QAM	1	1	17.37	17.41	17.49	20.87	20.91	20.99
		CP QPSK	1	1	18.35	17.92	18.06	21.85	21.42	21.56
		CP 16QAM	1	1	18.18	17.82	18.02	21.68	21.32	21.52
CP 64QAM	1	1	17.99	17.65	17.89	21.49	21.15	21.39		
CP 256QAM	1	1	15.42	15.80	16.24	18.92	19.30	19.74		

5G NR Band n48_part96: 3550 to 3700 MHz				Conducted Average (dBm)			EIRP (dBm)			
Antenna Gain(dBi)		3.5		Channel (ARFCH)/ Frequency(MHz)			Channel (ARFCH)/ Frequency(MHz)			
EIRP Limit (dBm)		23dBm/10MHz		Low	Mid	High	Low	Mid	High	
BW (MHz)	SCS (kHz)	Modulation	RB Allocation	RB Offset	637168	641668	646166	637168	641668	646166
					3557.52	3625.02	3692.49	3557.52	3625.02	3692.49
15	30	DFT-s PI/2 BPSK	1	1	18.84	17.92	18.40	22.34	21.42	21.90
			1	36	18.80	17.60	17.99	22.30	21.10	21.49
			18	9	18.51	17.77	18.09	22.01	21.27	21.59
			36	0	18.44	17.68	18.05	21.94	21.18	21.55
		DFT-s QPSK	1	1	18.33	17.76	17.68	21.83	21.26	21.18
			1	36	18.53	17.51	17.83	22.03	21.01	21.33
			18	9	18.47	17.71	18.15	21.97	21.21	21.65
		DFT-s 16QAM	36	0	18.40	17.67	18.03	21.90	21.17	21.53
			1	1	18.43	17.69	17.72	21.93	21.19	21.22
		DFT-s 64QAM	1	1	18.77	17.56	17.79	22.27	21.06	21.29
		DFT-s 256QAM	1	1	18.13	17.05	17.21	21.63	20.55	20.71
		CP QPSK	1	1	18.33	17.54	18.04	21.83	21.04	21.54
		CP 16QAM	1	1	18.42	17.35	18.16	21.92	20.85	21.66
CP 64QAM	1	1	18.59	17.38	17.82	22.09	20.88	21.32		
CP 256QAM	1	1	15.89	14.76	15.80	19.39	18.26	19.30		

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5G NR Band n48_part96: 3550 to 3700 MHz					Conducted Average (dBm)			EIRP (dBm)			
Antenna Gain(dBi)		3.5			Channel (ARFCH)/ Frequency(MHz)			Channel (ARFCH)/ Frequency(MHz)			
EIRP Limit (dBm)		23dBm/10MHz			Low	Mid	High	Low	Mid	High	
BW (MHz)	SCS (kHz)	Modulation	RB Allocation	RB Offset	637334	641668	646000	637334	641668	646000	
					3560.01	3625.02	3690	3560.01	3625.02	3690	
20	30	DFT-s PI/2 BPSK	1	1	18.59	17.88	18.24	22.09	21.38	21.74	
			1	49	18.31	17.85	18.14	21.81	21.35	21.64	
			25	12	18.46	17.69	18.11	21.96	21.19	21.61	
			50	0	18.45	17.61	18.03	21.95	21.11	21.53	
		DFT-s QPSK	1	1	18.38	17.81	17.77	21.88	21.31	21.27	
			1	49	18.54	17.53	18.02	22.04	21.03	21.52	
			25	12	18.46	17.67	18.11	21.96	21.17	21.61	
		CP QAM	50	0	18.46	17.70	18.03	21.96	21.20	21.53	
			DFT-s 16QAM	1	1	18.05	17.76	18.18	21.55	21.26	21.68
			DFT-s 64QAM	1	1	18.46	17.55	18.03	21.96	21.05	21.53
			DFT-s 256QAM	1	1	18.17	17.34	17.50	21.67	20.84	21.00
			CP QPSK	1	1	18.40	17.66	17.53	21.90	21.16	21.03
			CP 16QAM	1	1	18.30	17.55	18.03	21.80	21.05	21.53
			CP 64QAM	1	1	18.46	17.77	17.94	21.96	21.27	21.44
CP 256QAM	1	1	15.45	15.47	14.96	18.95	18.97	18.46			

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8 MAXIMUM POWER DENSITY MEASUREMENT

8.1 Standard Applicable

FCC §2.1046 & 96.41

- (a) FCC 96.41(a) Digital modulation. Systems operating in the Citizens Broadband Radio Service must use digital modulation techniques.
- (b) FCC 96.41(b) Power limits. Unless otherwise specified in this section, the maximum effective isotropic radiated power (EIRP) of any CBSD and End User Device must comply with the limits shown in the table in this paragraph (b):

Device	Maximum PSD (dBm/MHz)
End User Device	n/a
Category A CBSD	20
Category B CBSD ¹	37

Category B CBSDs will only be authorized for use after an ESC is approved and commercially deployed consistent with §§96.15 and 96.67.

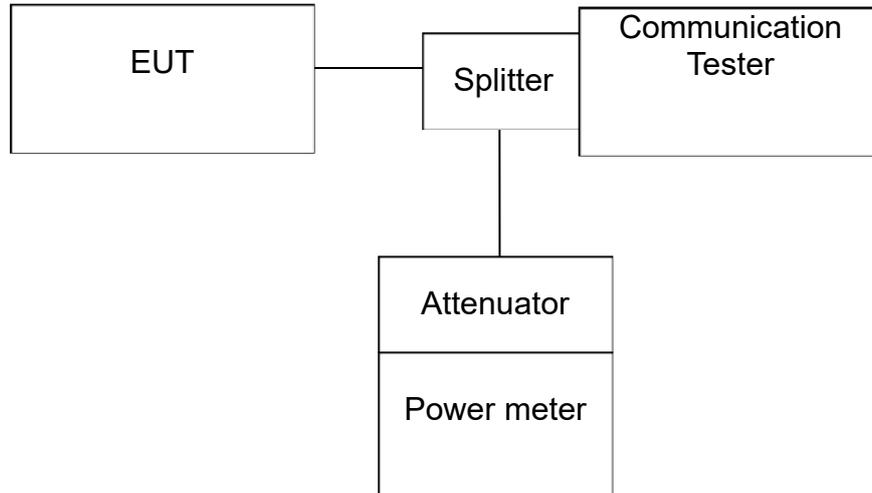
- (c) Power management. CBSDs and End User Devices shall limit their operating power to the minimum necessary for successful operations
 - (1) CBSDs must support transmit power control capability and the capability to limit their maximum EIRP and the maximum EIRP of associated End User Devices in response to instructions from an SAS.
 - (2) End User Devices shall include transmit power control capability and the capability to limit their maximum EIRP in response to instructions from their associated CBSDs.#

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8.2 Test Set-up



Note: Measurement setup for testing on Antenna connector

8.3 Measurement Procedure

1. Set instrument center frequency to OBW center frequency.
2. Set span to at least 1.5 times the OBW.
3. Set the RBW to the specified reference bandwidth (often 1 MHz).
4. Set VBW $\geq 3 \times$ RBW.
5. Detector = RMS (power averaging).
6. Ensure that the number of measurement points in the sweep $\geq 2 \times$ span/RBW.
7. Sweep time = auto couple.
8. Employ trace averaging (RMS) mode over a minimum of 100 traces.
9. Use the peak marker function to determine the maximum amplitude level within the reference bandwidth (PSD).
10. Determine the EIRP by adding the effective antenna gain to the adjusted power level.

8.4 Measurement Result

Peak Power Density Results:

N/A, this is an End user device.

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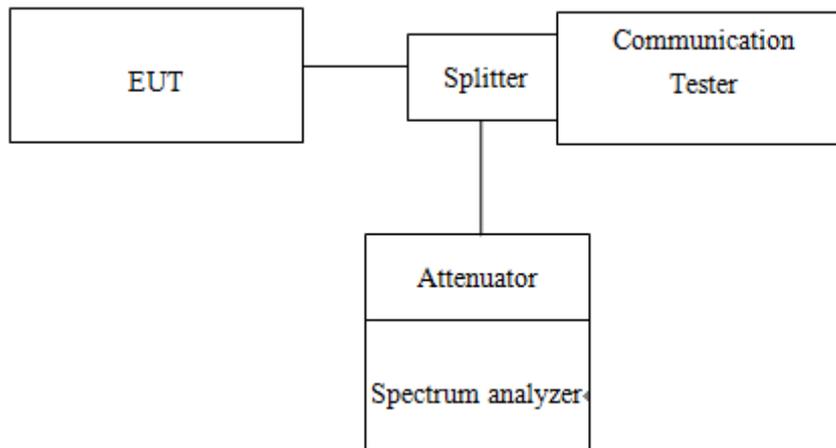
9 OCCUPIED BANDWIDTH MEASUREMENT

9.1 Standard Applicable

FCC Part 2.1049(h)

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power.

9.2 Test Set-up



9.3 Measurement Procedure

99% & 26dB Bandwidth with detector peak

The EUT's output RF connector was connected with a short cable to the spectrum analyzer, RBW was set to about 1% of emission BW, VBW= 3 times RBW, -26dBc display line was placed on the screen (or 26dB bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace. Then set RBW to 99% bandwidth, RBW= 1% ~ 5%, VBW ≥ 3 RBW, with span > 2 * Signal BW, set % Power = 99%.

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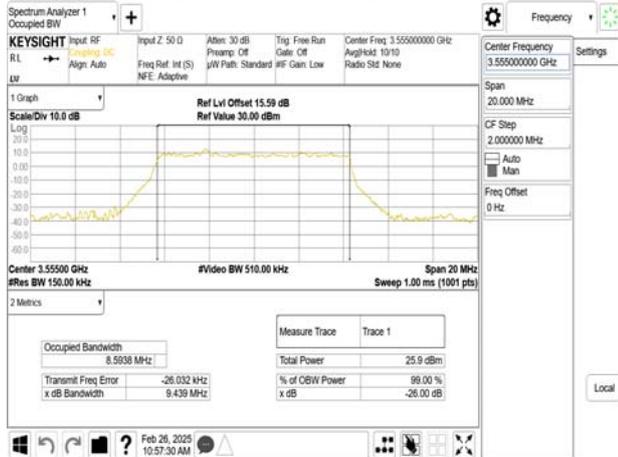
9.4 Measurement Result

5G NR BAND n48_Part96 Channel bandwidth: 10MHz(3550 to 3700 MHz)											
DFT-S-OFDM_SCS 30 kHz											
Freq. (MHz)	CH	99% BW (MHz)					26 dB BW (MHz)				
		BPSK	QPSK	16QAM	64QAM	256QAM	BPSK	QPSK	16QAM	64QAM	256QAM
3555	637000	8.5938	8.6362	8.6076	8.6036	8.7173	9.4390	9.8440	9.5810	9.9360	10.0000
3625.02	641668	8.5855	8.5703	8.6275	8.5942	8.5443	9.1150	9.5910	9.3920	9.5850	9.6930
3694.98	646332	8.6474	8.5474	8.6076	8.6413	8.5838	9.3340	9.5310	9.3990	9.2480	9.6820
5G NR BAND n48_Part96 Channel bandwidth: 15MHz(3550 to 3700 MHz)											
DFT-S-OFDM_SCS 30 kHz											
Freq. (MHz)	CH	99% BW (MHz)					26 dB BW (MHz)				
		BPSK	QPSK	16QAM	64QAM	256QAM	BPSK	QPSK	16QAM	64QAM	256QAM
3557.52	637168	12.8760	12.9280	12.9320	12.9120	12.8710	14.2500	14.2700	14.4300	14.3300	14.1300
3625.02	641668	12.9030	12.8120	12.9080	12.8220	12.8930	13.7600	13.7300	14.3800	13.8200	13.8300
3692.49	646166	12.8760	12.8570	12.8270	12.8610	12.8490	13.8100	13.6600	13.7000	14.1400	14.1300
5G NR BAND n48_Part96 Channel bandwidth: 20MHz(3550 to 3700 MHz)											
DFT-S-OFDM_SCS 30 kHz											
Freq. (MHz)	CH	99% BW (MHz)					26 dB BW (MHz)				
		BPSK	QPSK	16QAM	64QAM	256QAM	BPSK	QPSK	16QAM	64QAM	256QAM
3560.01	637334	17.8690	17.8960	17.9390	17.8300	17.9080	19.4800	19.4600	19.5500	19.5000	19.7900
3625.02	641668	17.8870	17.8430	17.9180	17.9170	17.8580	18.9300	18.7900	19.0300	19.1500	18.6400
3690	646000	17.8660	17.9940	17.9230	17.8210	17.9310	18.7800	19.0900	18.7200	18.9700	19.0100

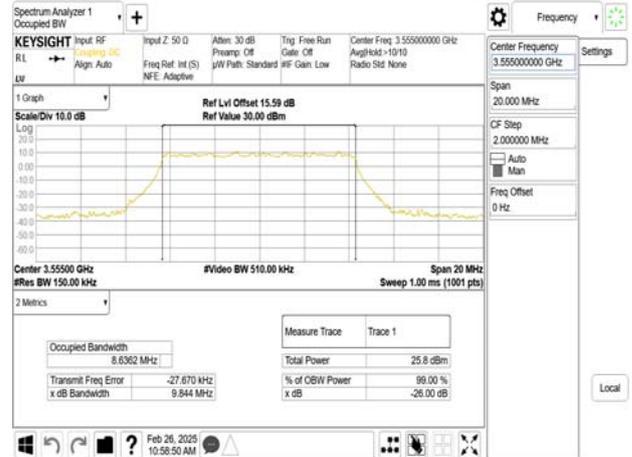
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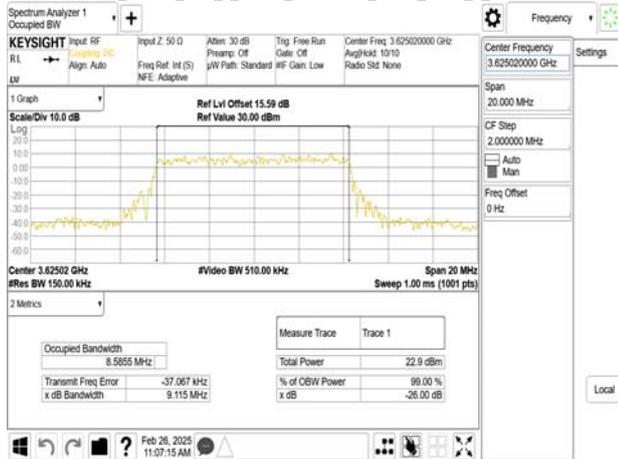
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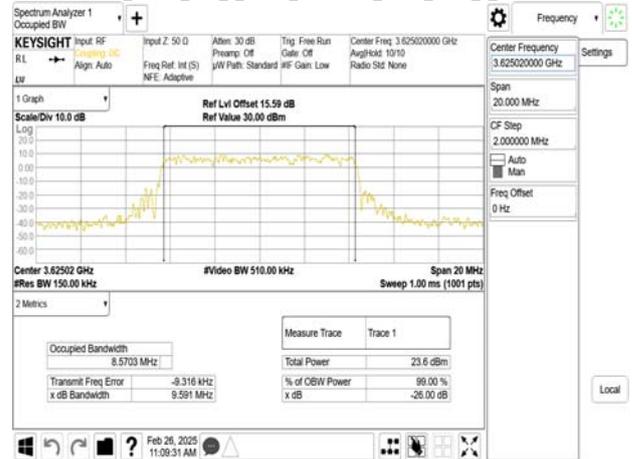
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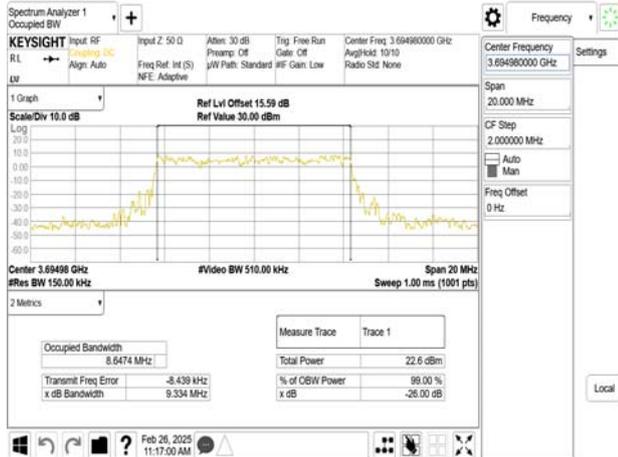
Band48_10MHz_DFT_s_OFDM_SCS30kHz_BPSK_RB24_0_CH641668



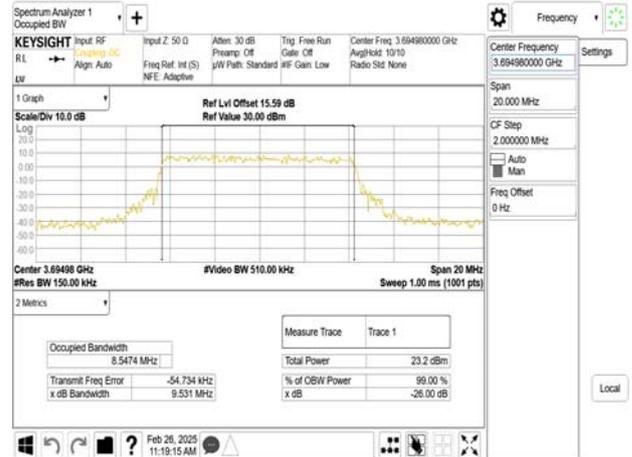
Band48_10MHz_DFT_s_OFDM_SCS30kHz_QPSK_RB24_0_CH641668



Band48_10MHz_DFT_s_OFDM_SCS30kHz_BPSK_RB24_0_CH646332



Band48_10MHz_DFT_s_OFDM_SCS30kHz_QPSK_RB24_0_CH646332

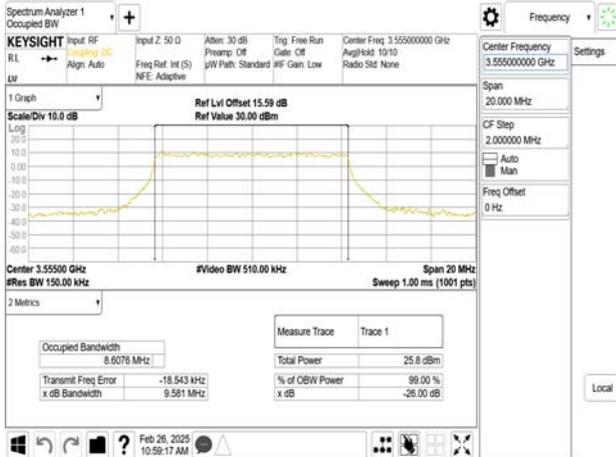


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Band48_10MHz_DFT_s_OFDM_SCS30kHz_16QAM_RB24_0_CH637000



Band48_10MHz_DFT_s_OFDM_SCS30kHz_64QAM_RB24_0_CH637000



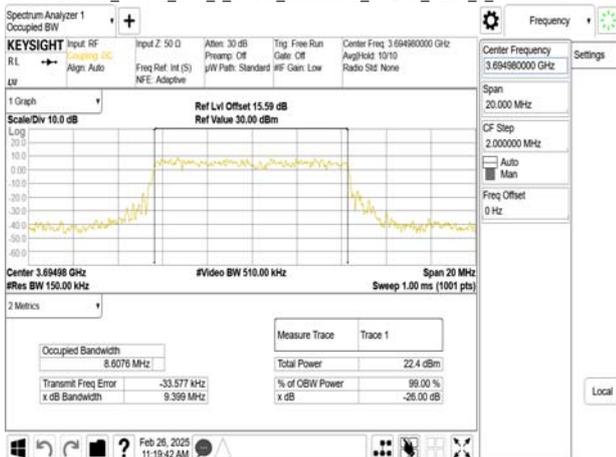
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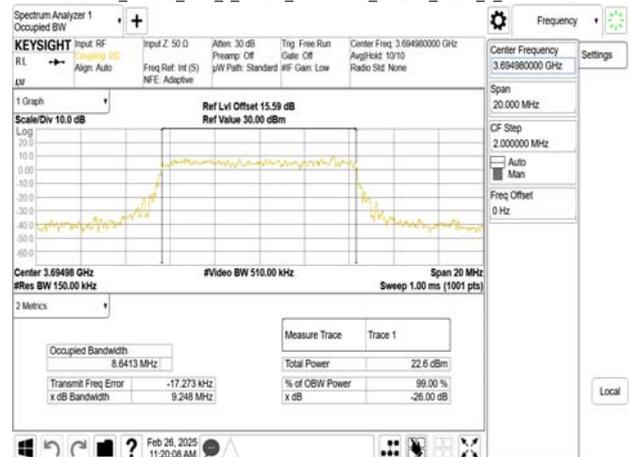
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Band48_10MHz_DFT_s_OFDM_SCS30kHz_16QAM_RB24_0_CH646332



Band48_10MHz_DFT_s_OFDM_SCS30kHz_64QAM_RB24_0_CH646332

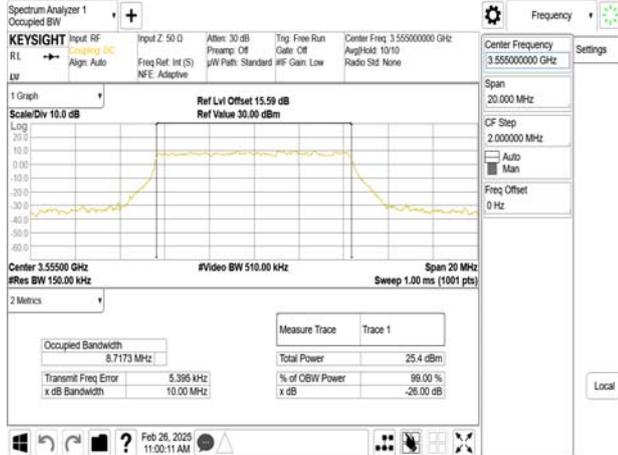


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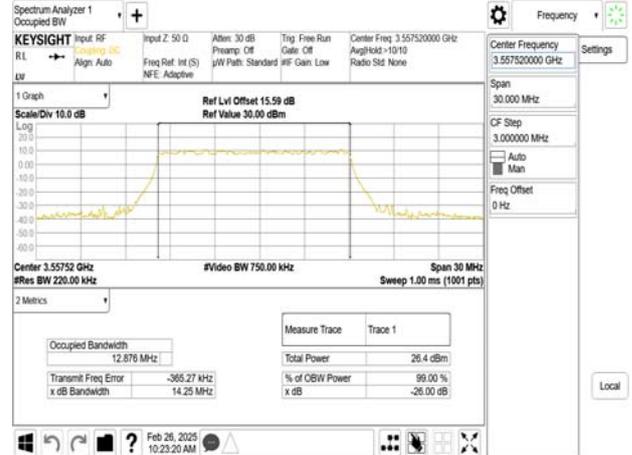
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Band48_10MHz_DFT_s_OFDM_SCS30kHz_256QAM_RB24_0_CH637000



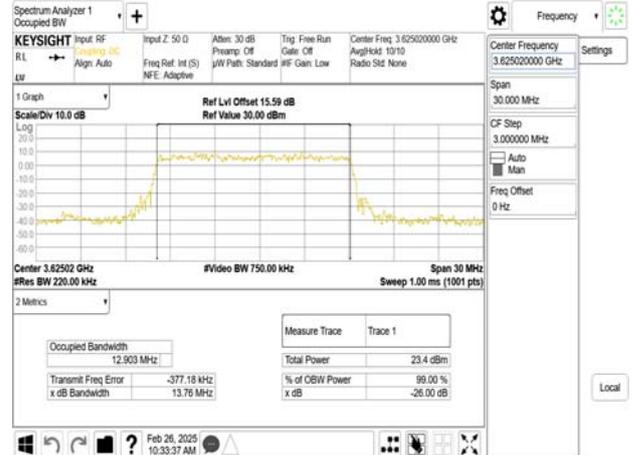
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Band48_10MHz_DFT_s_OFDM_SCS30kHz_256QAM_RB24_0_CH641668



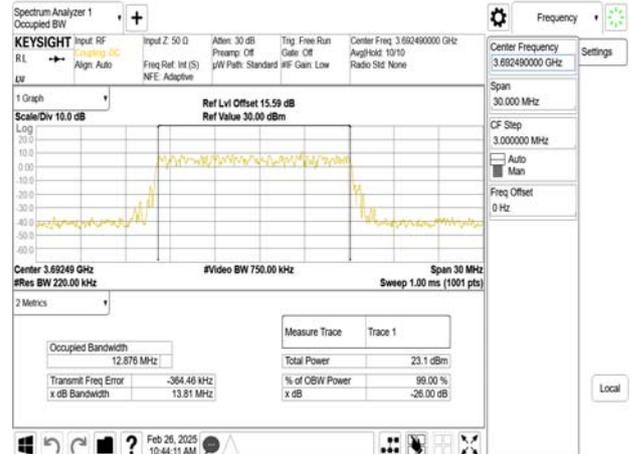
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Band48_10MHz_DFT_s_OFDM_SCS30kHz_256QAM_RB24_0_CH646332



Band48_15MHz_DFT_s_OFDM_SCS30kHz_BPSK_RB36_0_CH646166

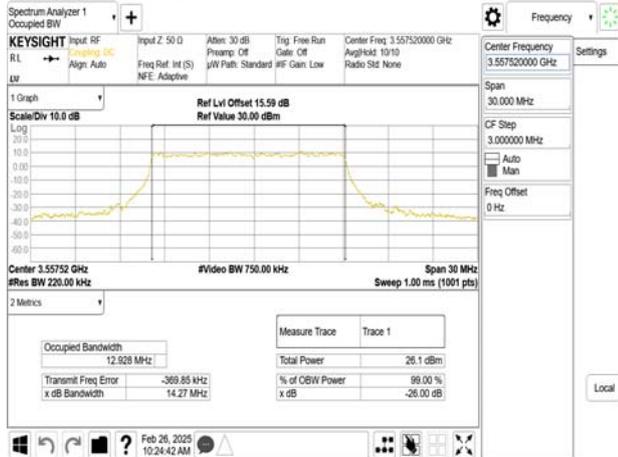


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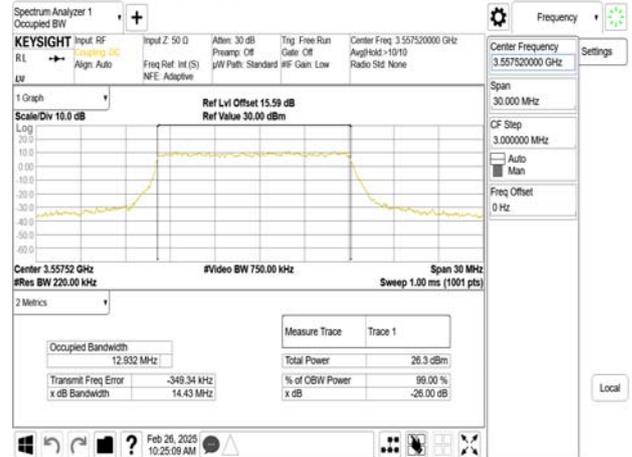
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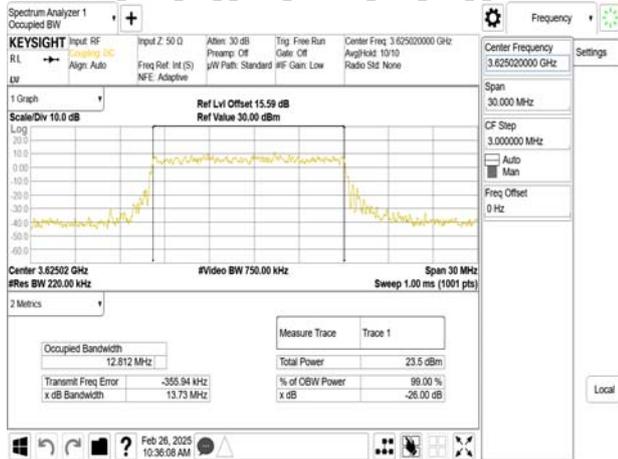
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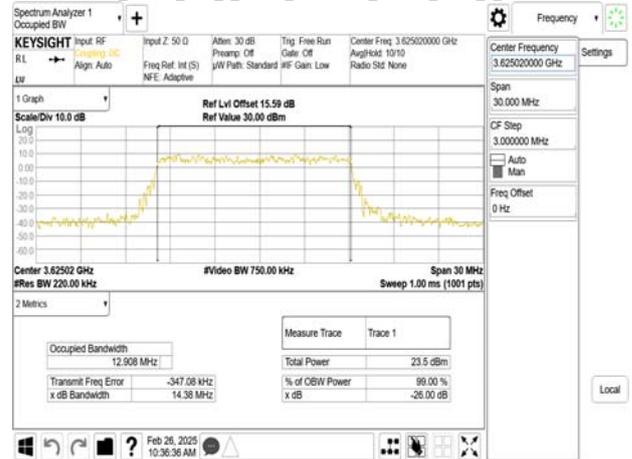
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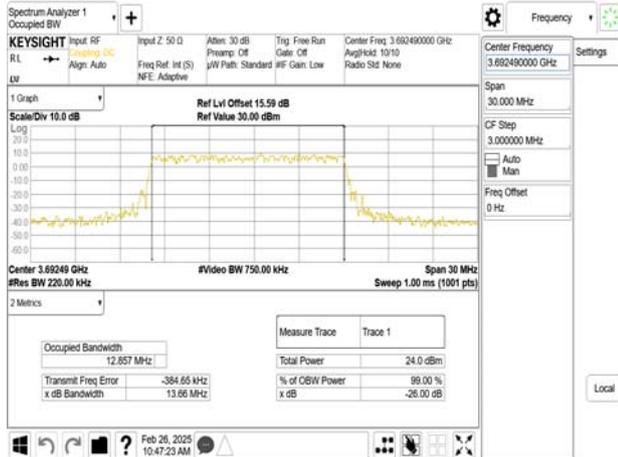
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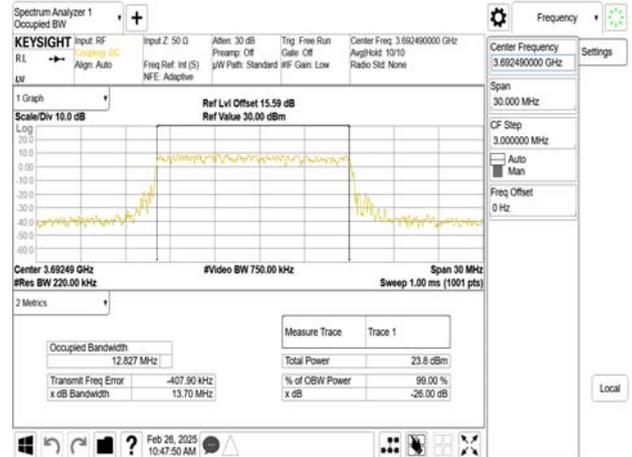
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Band48_15MHz_DFT_s_OFDM_SCS30kHz_QPSK_RB36_0_CH646166



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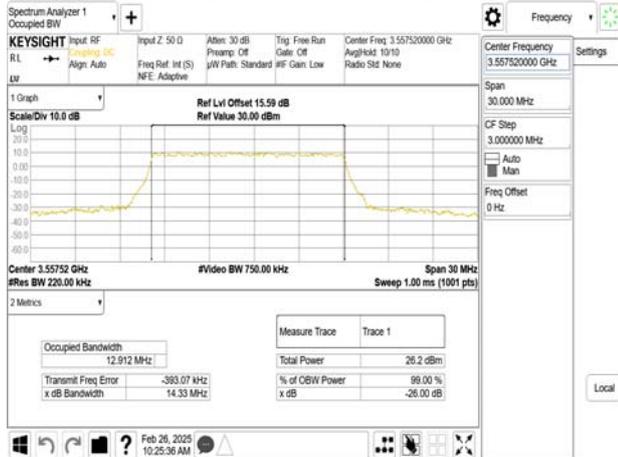


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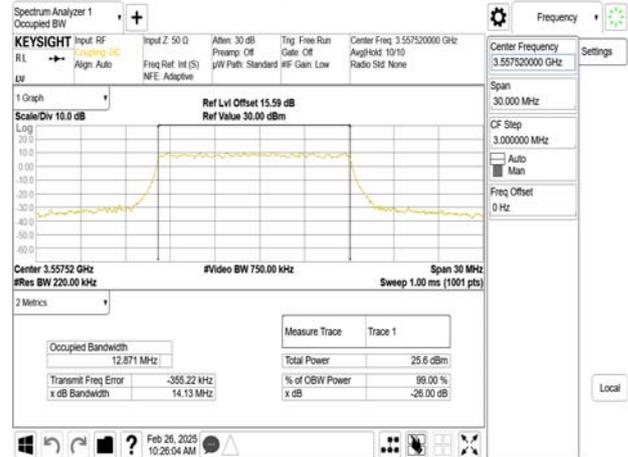
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Band48_15MHz_DFT_s_OFDM_SCS30kHz_64QAM_RB36_0_CH637168



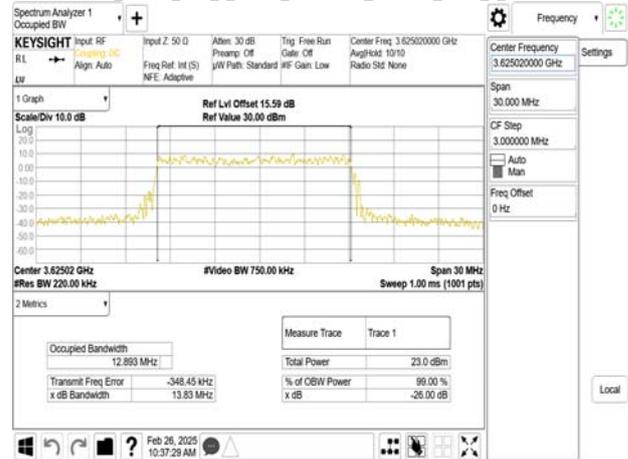
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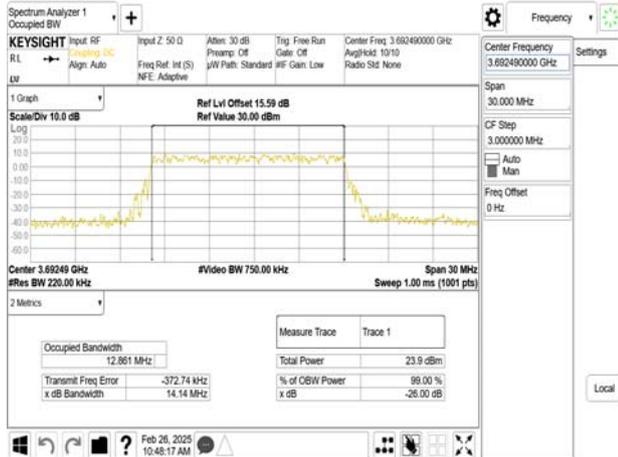
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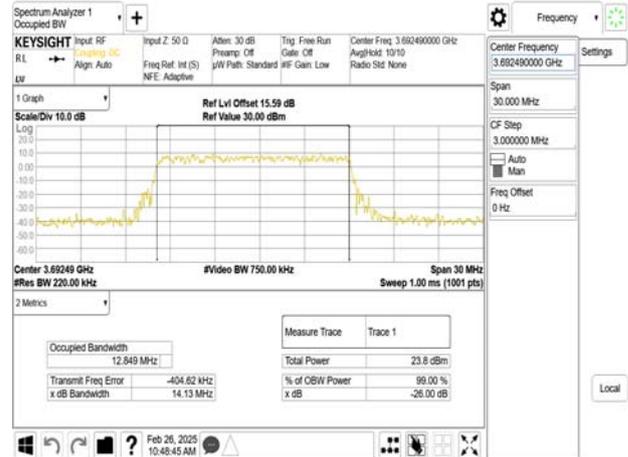
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Band48_15MHz_DFT_s_OFDM_SCS30kHz_64QAM_RB36_0_CH646166



Band48_15MHz_DFT_s_OFDM_SCS30kHz_256QAM_RB36_0_CH646166

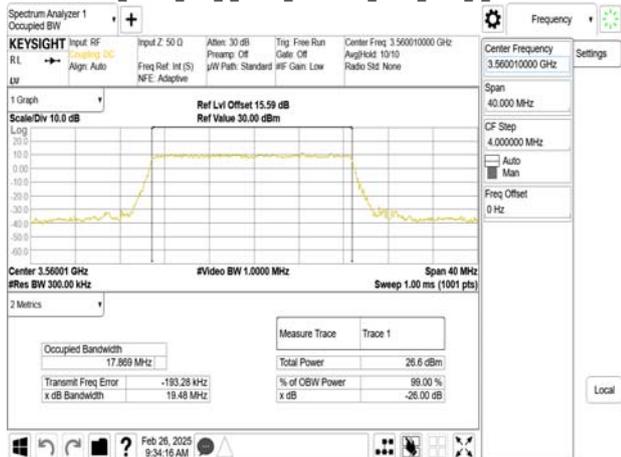


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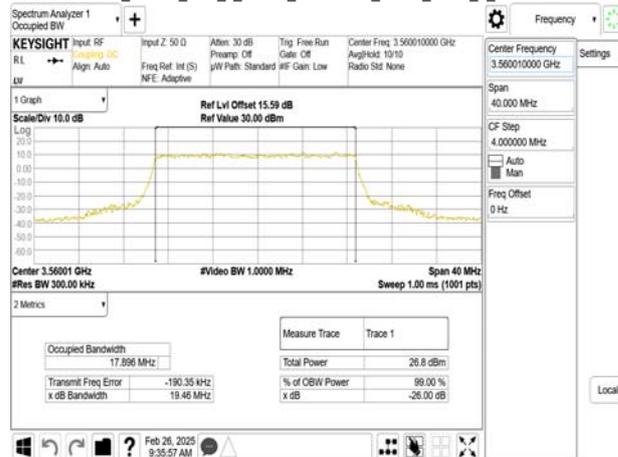
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Band48_20MHz_DFT_s_OFDM_SCS30kHz_QPSK_RB50_0_CH637334



Band48_20MHz_DFT_s_OFDM_SCS30kHz_BPSK_RB50_0_CH641668



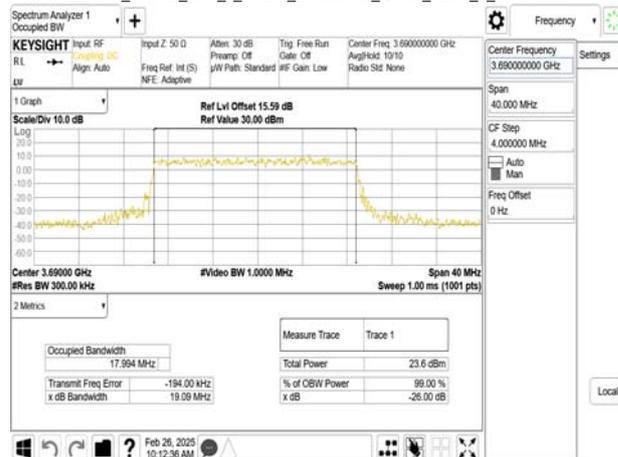
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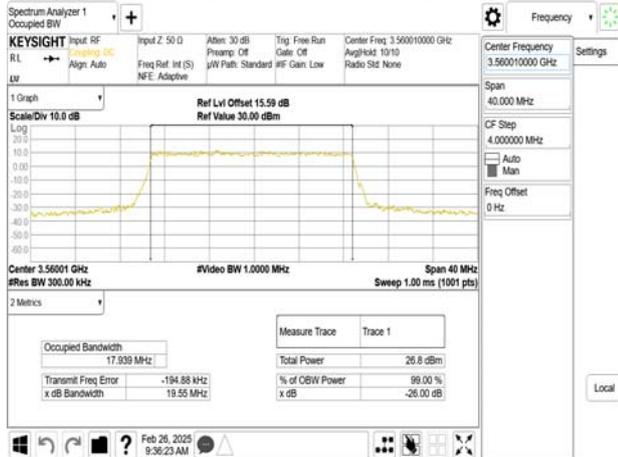


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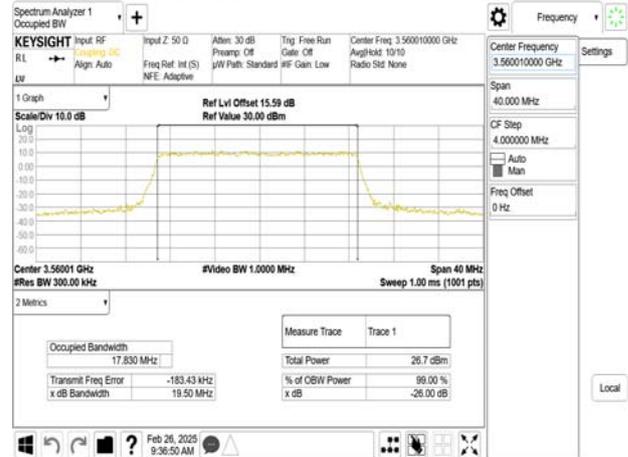
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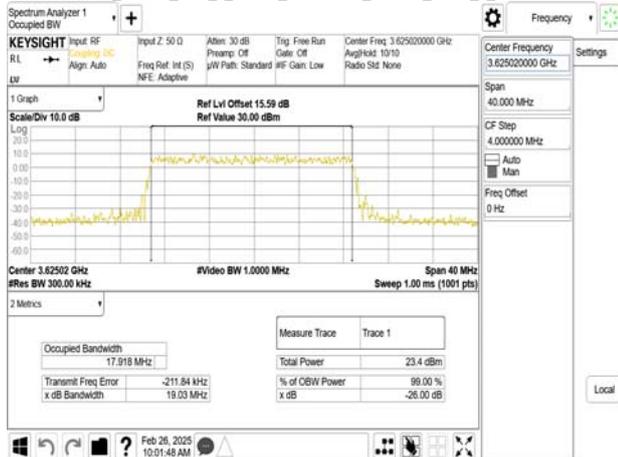
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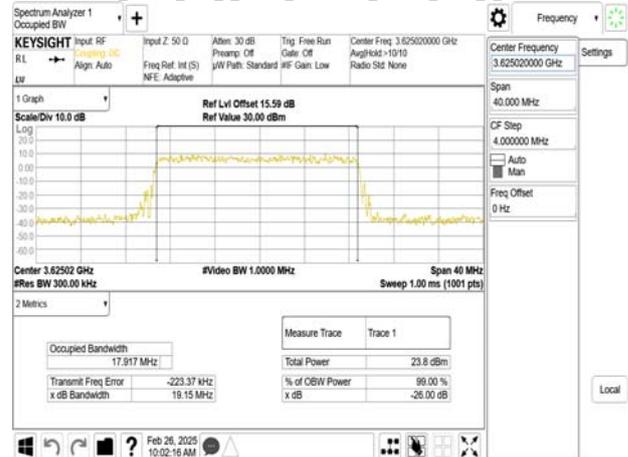
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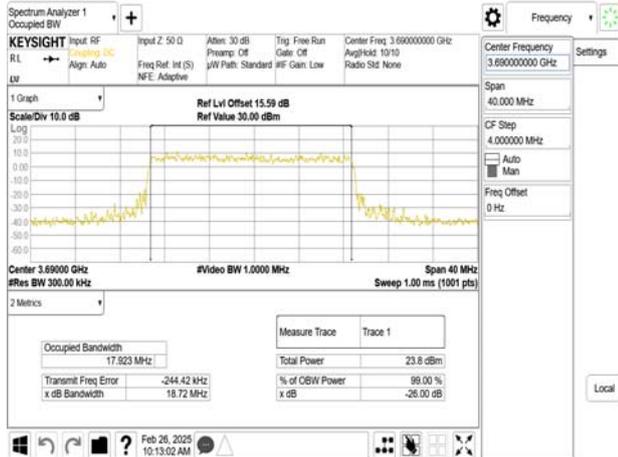
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Band48_20MHz_DFT_s_OFDM_SCS30kHz_64QAM_RB50_0_CH641668



Band48_20MHz_DFT_s_OFDM_SCS30kHz_16QAM_RB50_0_CH646000



Band48_20MHz_DFT_s_OFDM_SCS30kHz_64QAM_RB50_0_CH646000

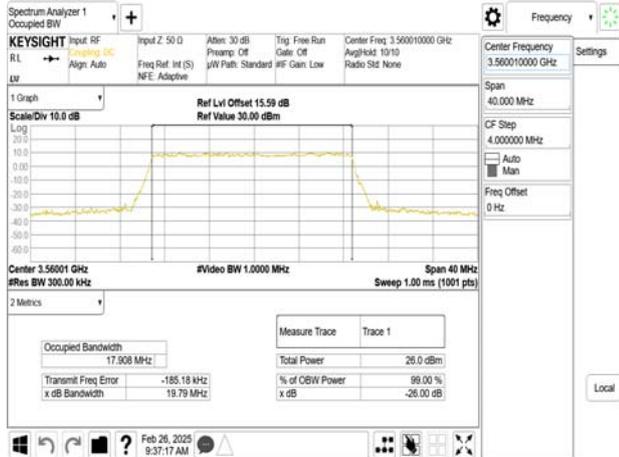


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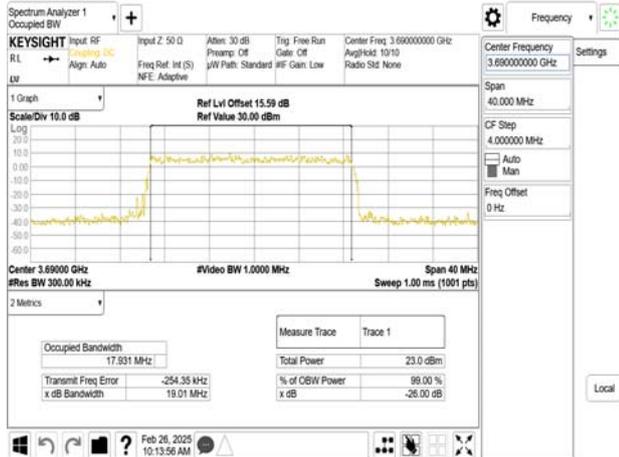
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Band48_20MHz_DFT_s_OFDM_SCS30kHz_256QAM_RB50_0_CH641668



Band48_20MHz_DFT_s_OFDM_SCS30kHz_256QAM_RB50_0_CH646000



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10 OUT OF BAND EMISSION AT ANTENNA TERMINALS

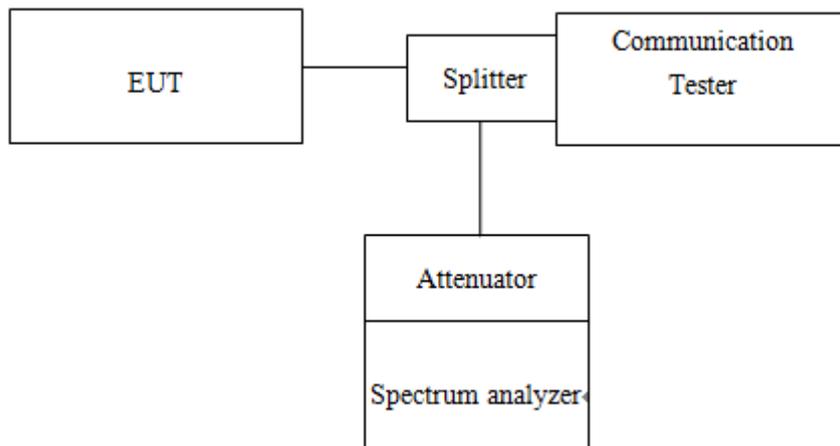
10.1 Standard Applicable

FCC Part 2.1051, Part 96.41, C63.26 Clause 5.7.

For channel and frequency assignments made by the SAS to CBSDs, the conducted power of any CBSD emission outside the fundamental emission bandwidth as specified in paragraph (e)(3) of this section (whether the emission is inside or outside of the authorized band) shall not exceed -13 dBm/MHz within 0-10 megahertz above the upper SAS-assigned channel edge and within 0-10 megahertz below the lower SAS-assigned channel edge. At all frequencies greater than 10 megahertz above the upper SAS assigned channel edge and less than 10 MHz below the lower SAS assigned channel edge, the conducted power of any CBSD emission shall not exceed -25 dBm/MHz. The upper and lower SAS assigned channel edges are the upper and lower limits of any channel assigned to a CBSD by an SAS, or in the case of multiple contiguous channels, the upper and lower limits of the combined contiguous channels.

For CBSDs and End User Devices, the conducted power of emissions below 3540 MHz or above 3710 MHz shall not exceed -25 dBm/MHz, and the conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed -40 dBm/MHz.

10.2 Test SET-UP



10.3 Measurement Procedure

10.3.1 Conducted Emission

The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation. The resolution bandwidth of the spectrum analyzer was set at 1MHz, sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic.

To connect Antenna Port of EUT to Spectrum.

Set RBW = 1MHz & VBW = 1MHz on Spectrum.

Allow trace to fully stabilize

Repeat above procedures until all default test channel measured were complete.

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10.3.2 Band Edge

1. To connect Antenna Port of EUT to Spectrum.
2. The band edge of low and high channels for the highest RF powers was measured.
Setting RBW \geq 1% EBW.
3. Allow trace to fully stabilize
4. Repeat above procedures until all default test channel measured were complete.

10.4 Test Results:

Refer to next page for test plots.

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10.4.1 Unwanted Emission

Band48_10MHz_DFT_s_OFDM_SCS30kHz_BPSK_RB1_1_CH637000



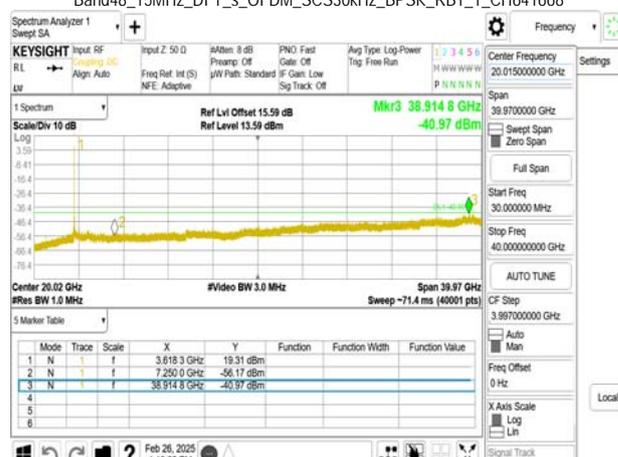
Band48_15MHz_DFT_s_OFDM_SCS30kHz_BPSK_RB1_1_CH637168



Band48_10MHz_DFT_s_OFDM_SCS30kHz_BPSK_RB1_1_CH641668



Band48_15MHz_DFT_s_OFDM_SCS30kHz_BPSK_RB1_1_CH641668



Band48_10MHz_DFT_s_OFDM_SCS30kHz_BPSK_RB1_1_CH646332



Band48_15MHz_DFT_s_OFDM_SCS30kHz_BPSK_RB1_1_CH646166



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Band48_20MHz_DFT_s_OFDM_SCS30kHz_BPSK_RB1_1_CH637334



Band48_20MHz_DFT_s_OFDM_SCS30kHz_BPSK_RB1_1_CH641668



Band48_20MHz_DFT_s_OFDM_SCS30kHz_BPSK_RB1_1_CH646000

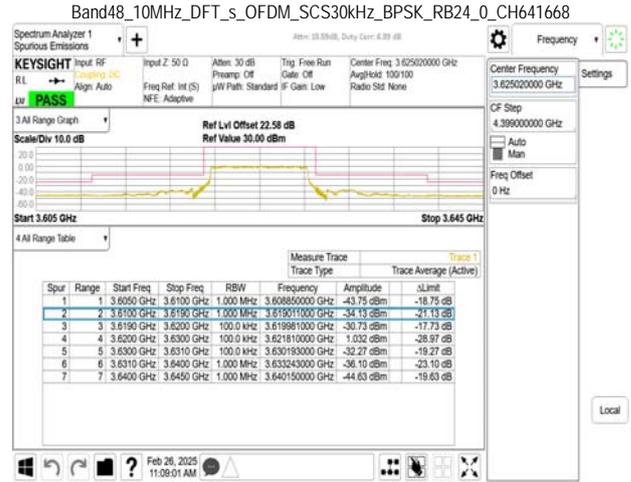
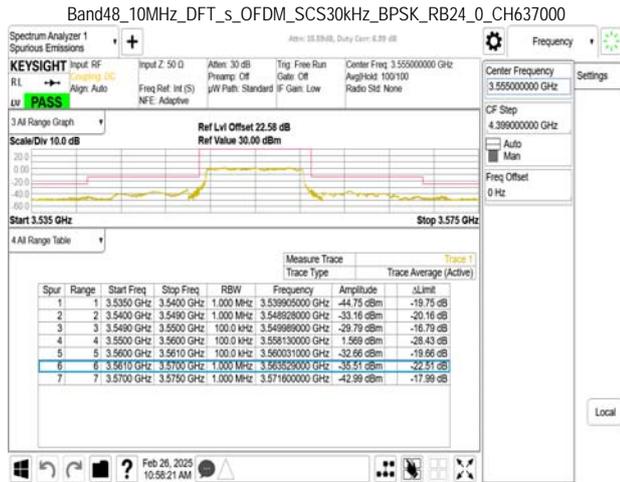
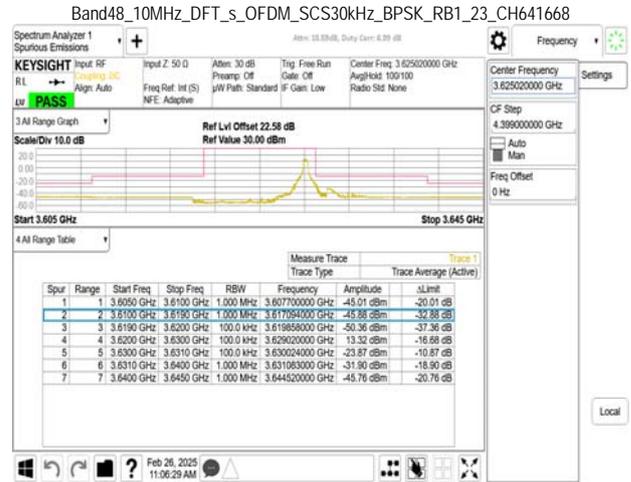
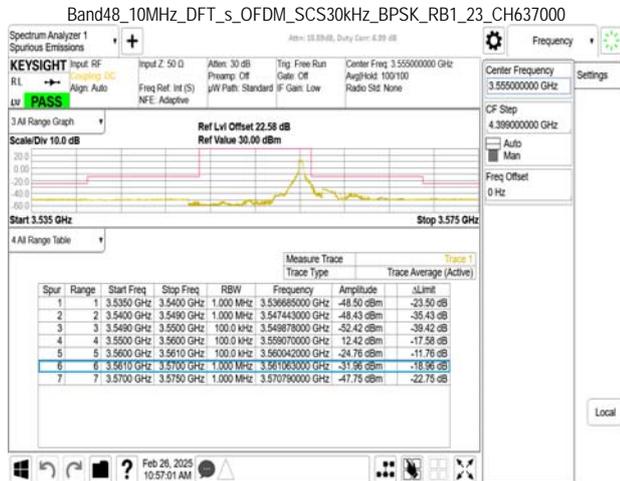
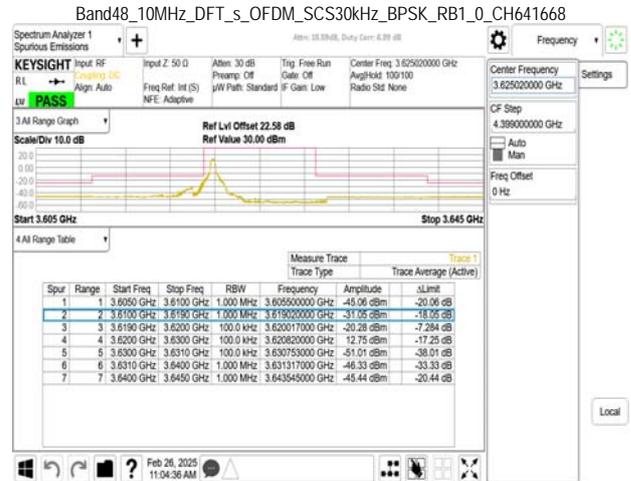
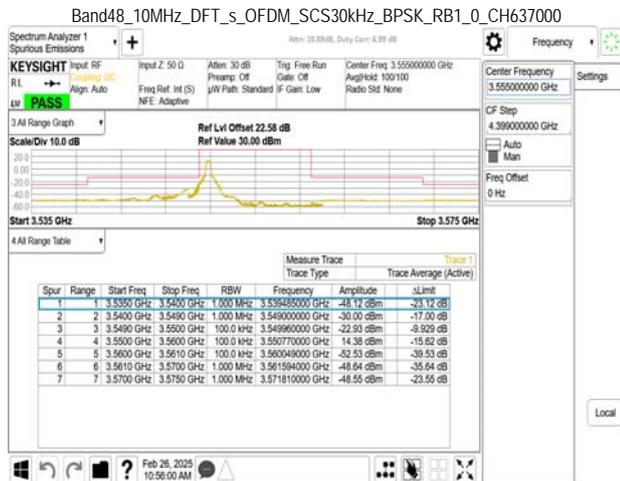


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10.4.2 Band Edge:

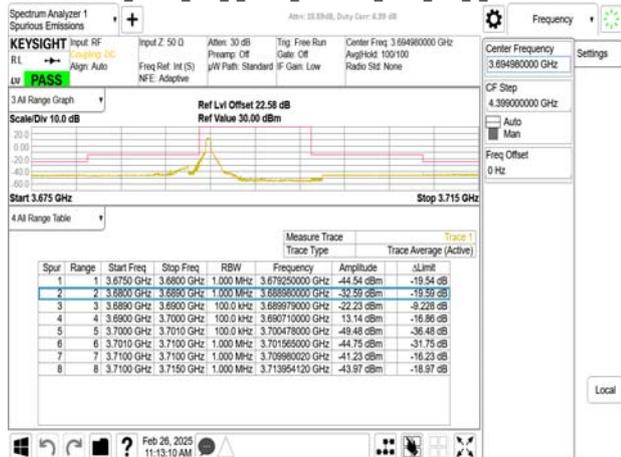


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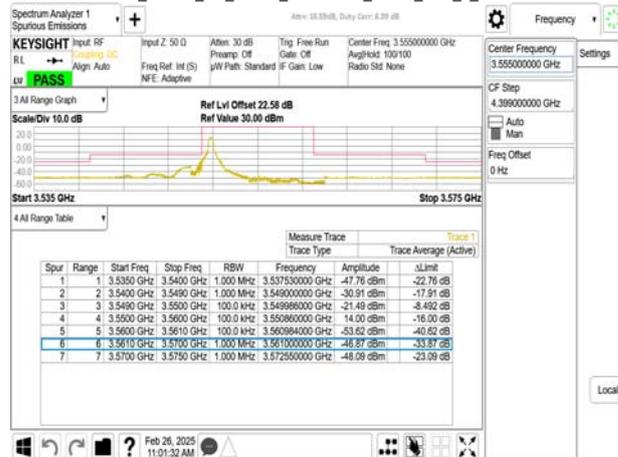
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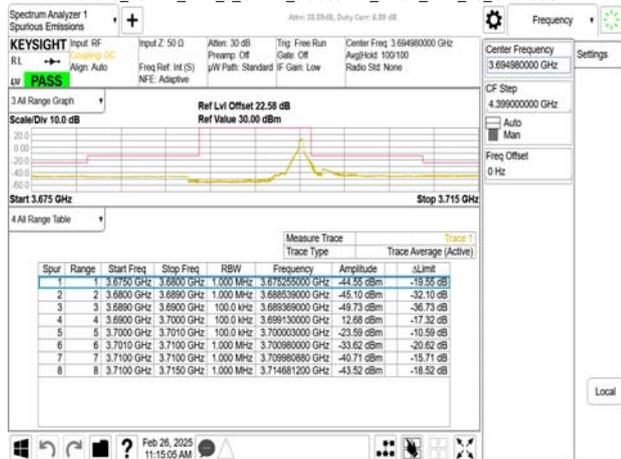
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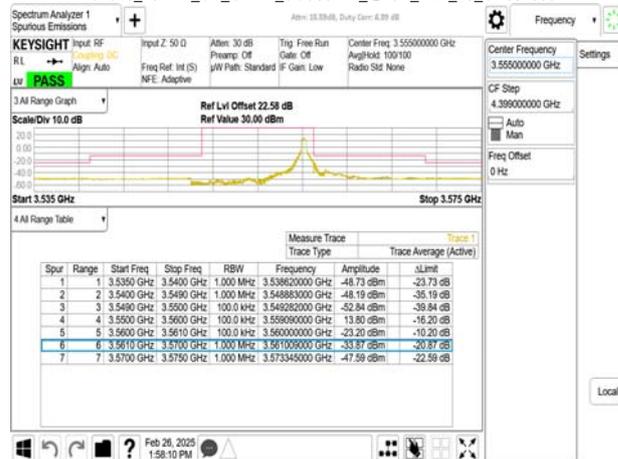
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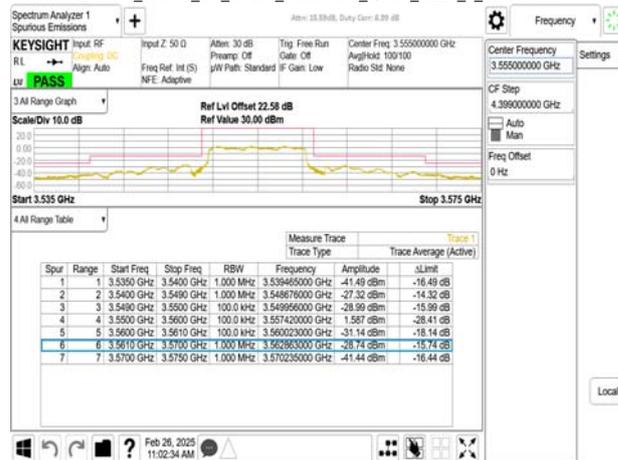
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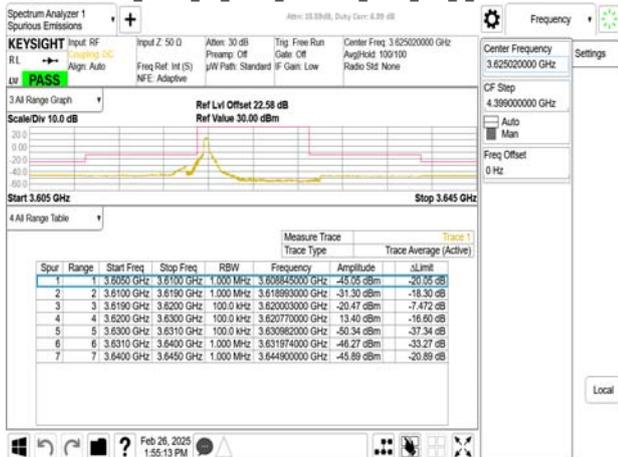


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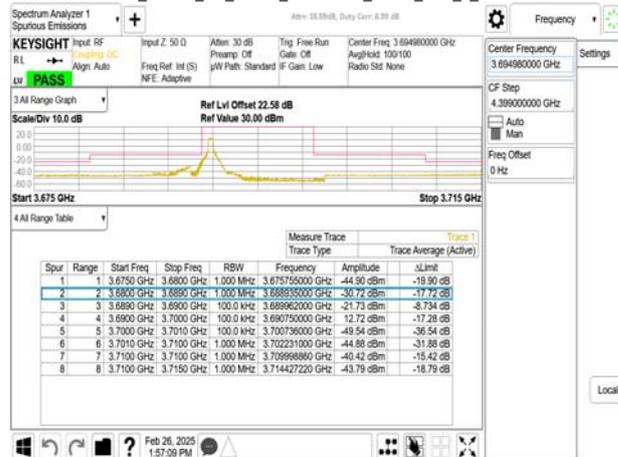
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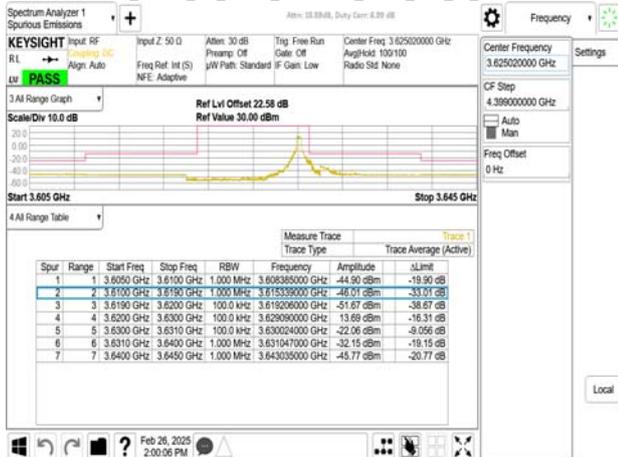
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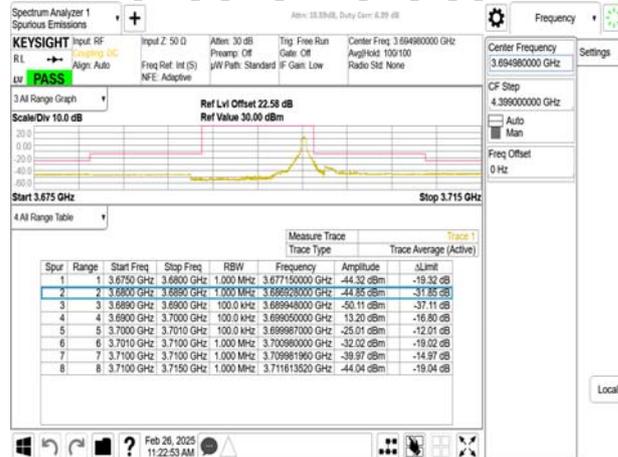
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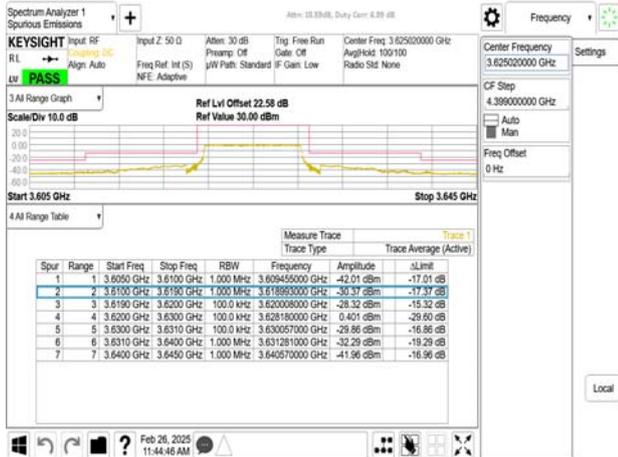
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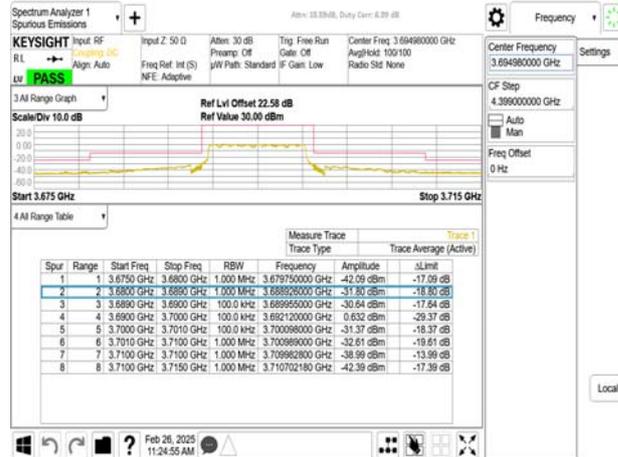
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Band48_10MHz_CP_OFDM_SCS30kHz_QPSK_RB24_0_CH641668



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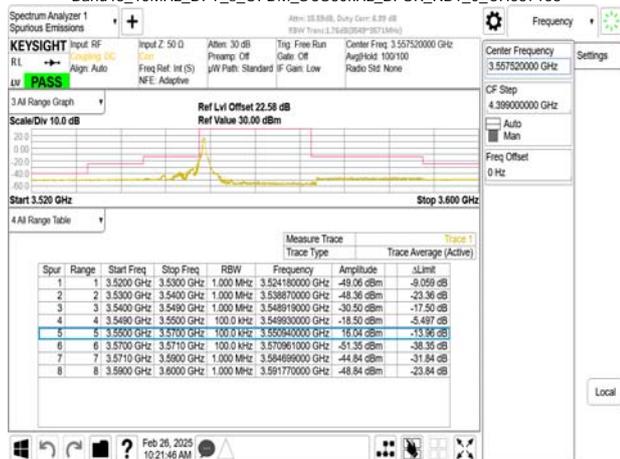


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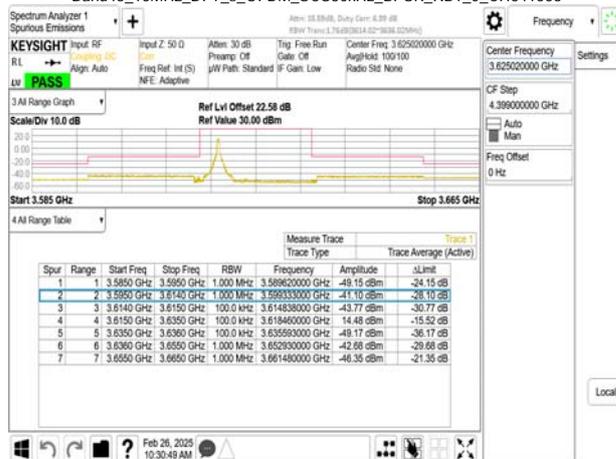
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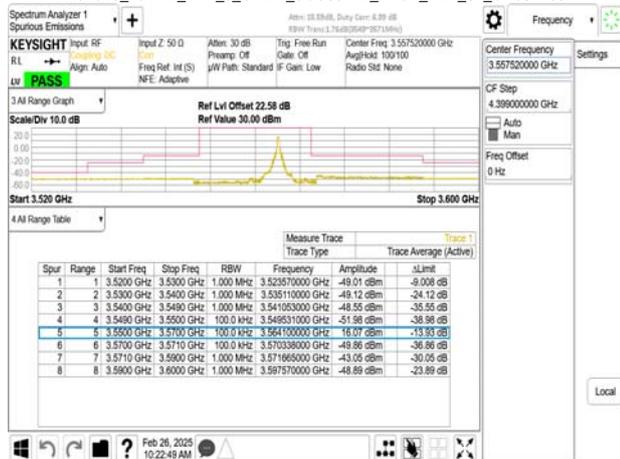
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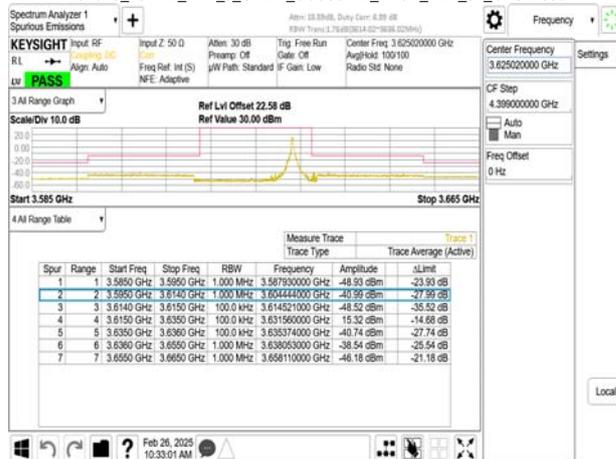
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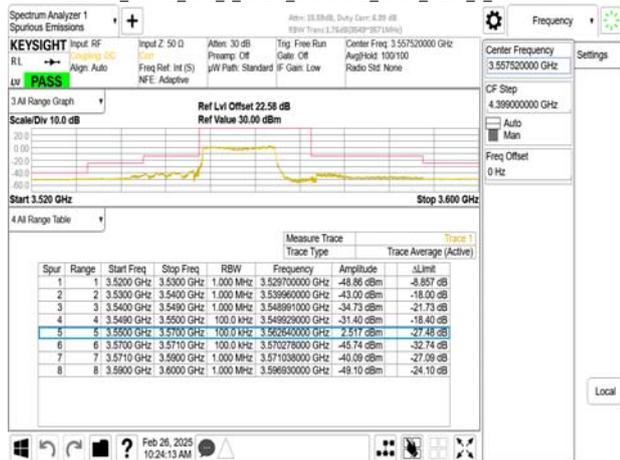
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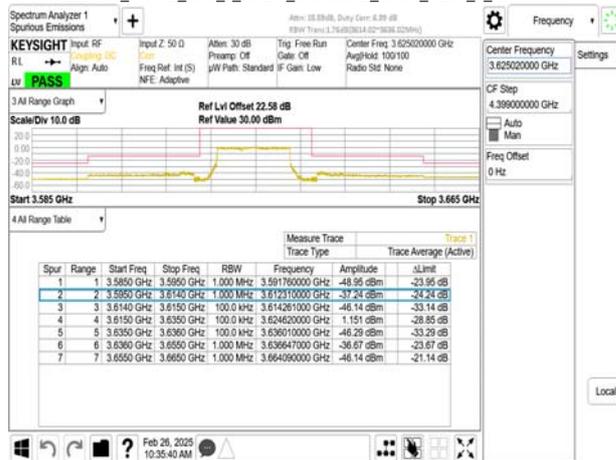
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Band48_15MHz_DFT_s_OFDM_SCS30kHz_BPSK_RB36_0_CH637168



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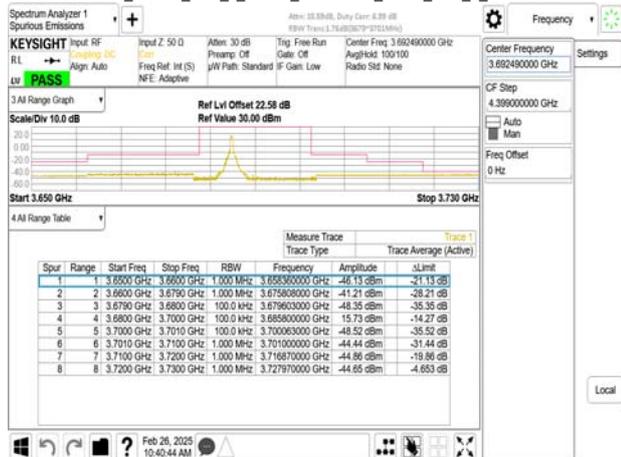


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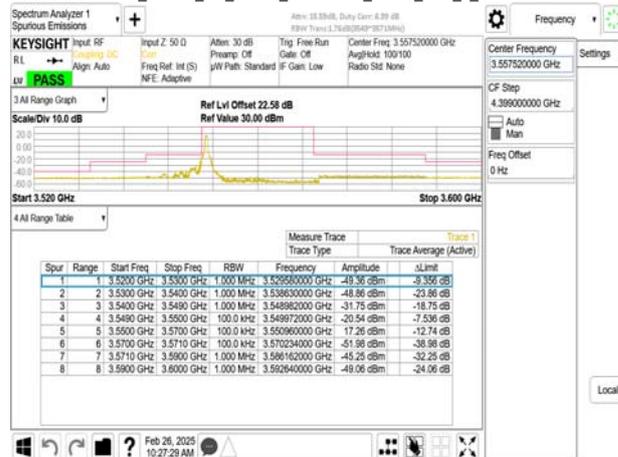
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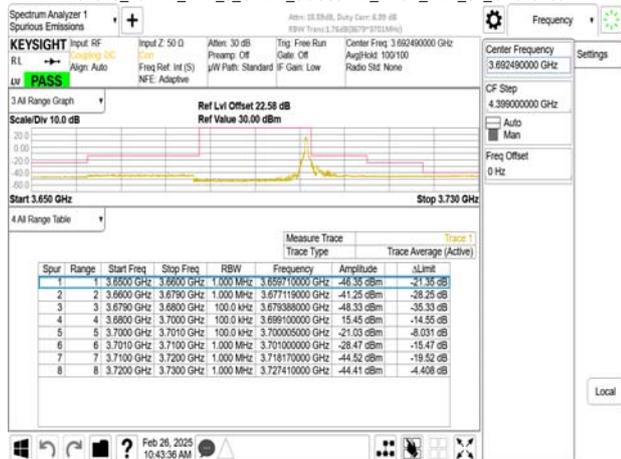
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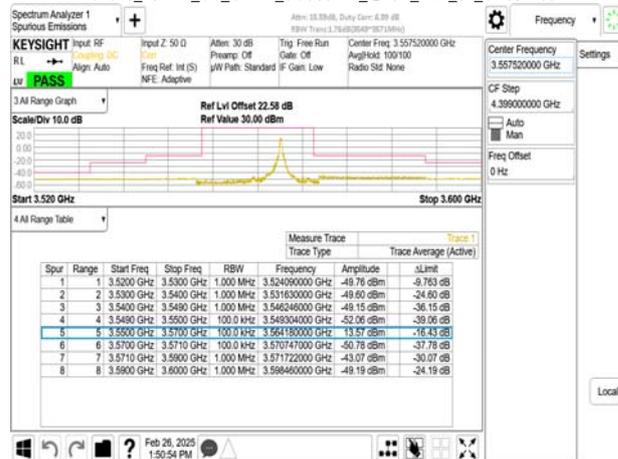
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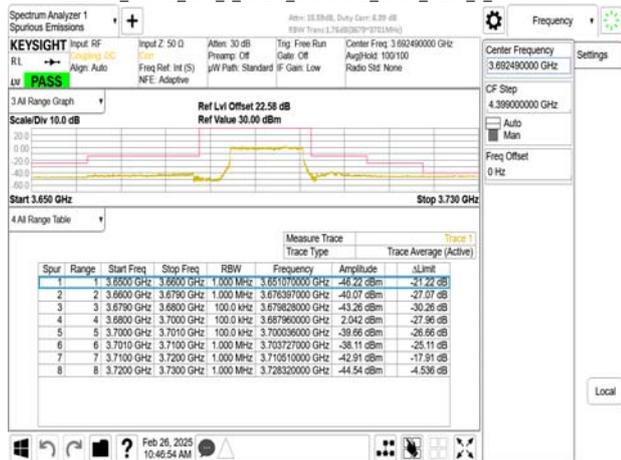
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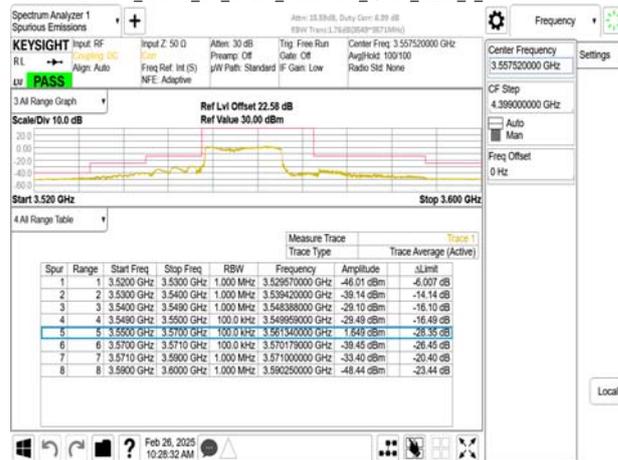
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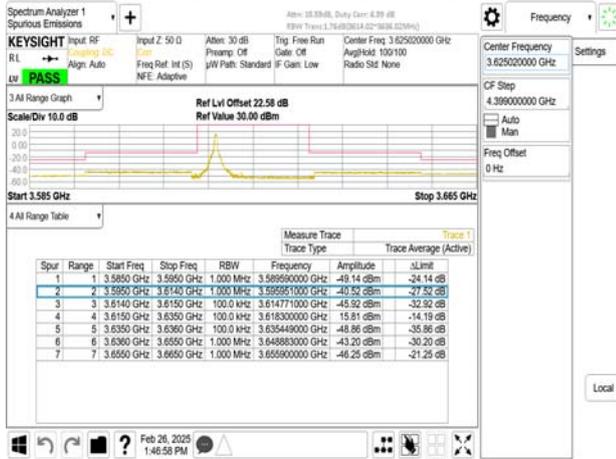


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Band48_15MHz_CP_OFDM_SCS30kHz_QPSK_RB1_0_CH641668



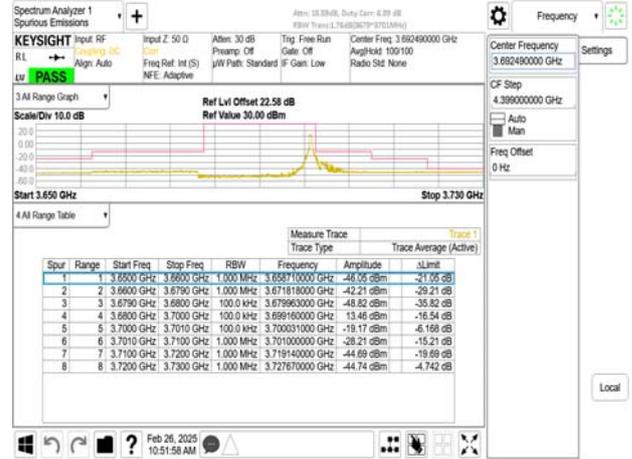
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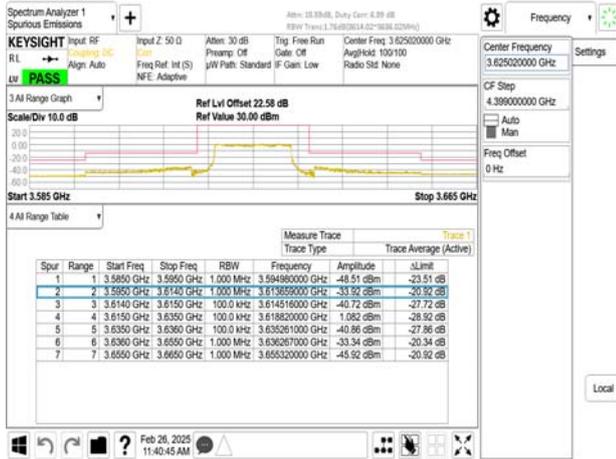
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Band48_15MHz_CP_OFDM_SCS30kHz_QPSK_RB1_37_CH641666



Band48_15MHz_CP_OFDM_SCS30kHz_QPSK_RB38_0_CH641668



Band48_15MHz_CP_OFDM_SCS30kHz_QPSK_RB38_0_CH641666

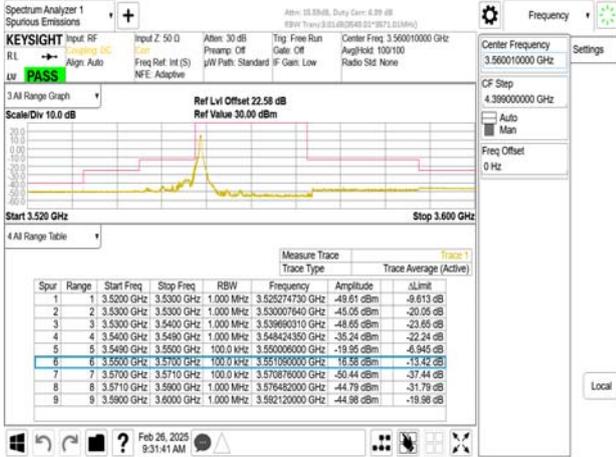


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Band48_20MHz_DFT_s_OFDM_SCS30kHz_BPSK_RB1_0_CH637334



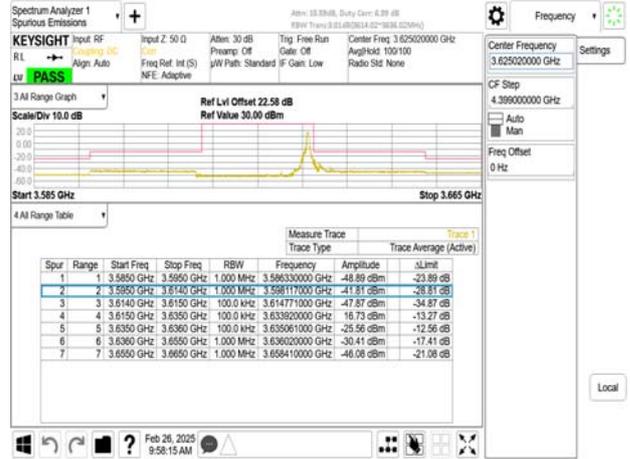
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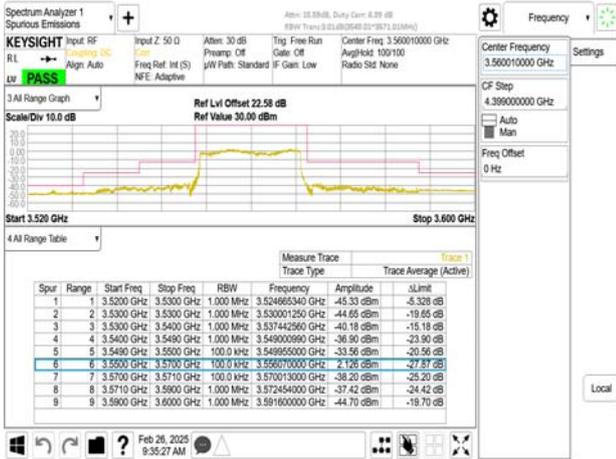
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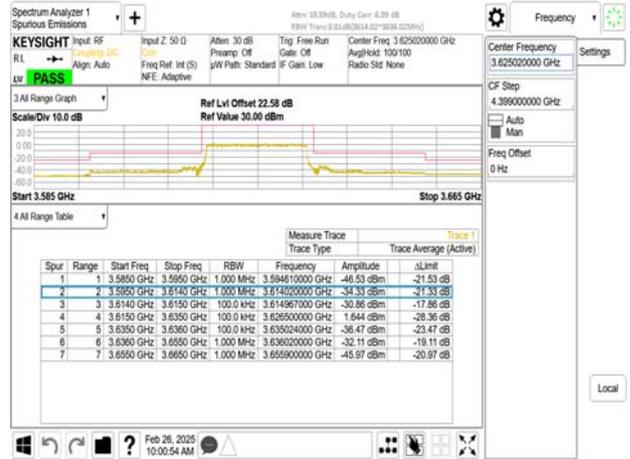
Band48_20MHz_DFT_s_OFDM_SCS30kHz_BPSK_RB1_50_CH641668



Band48_20MHz_DFT_s_OFDM_SCS30kHz_BPSK_RB50_0_CH637334



Band48_20MHz_DFT_s_OFDM_SCS30kHz_BPSK_RB50_0_CH641668



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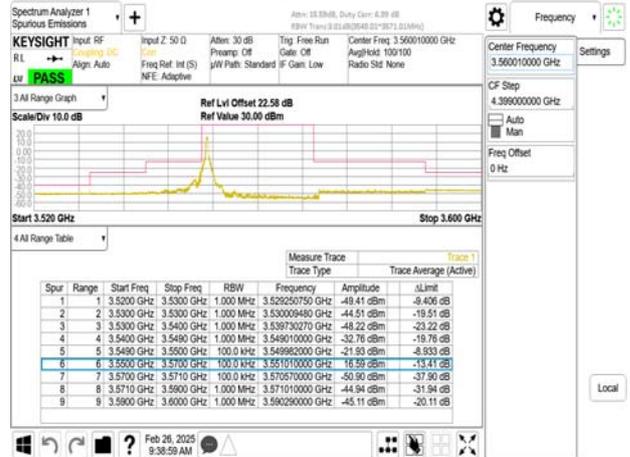
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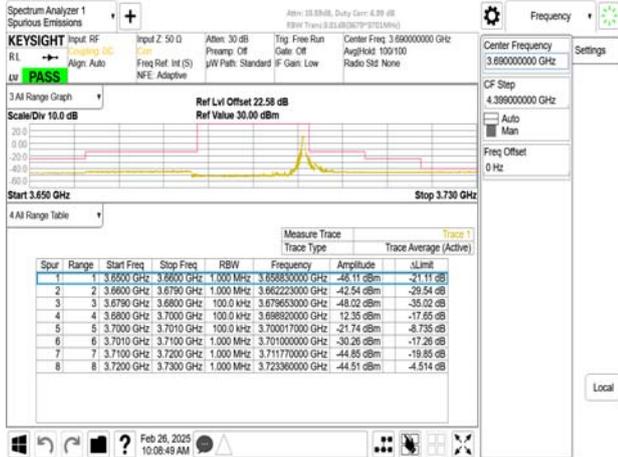
Band48_20MHz_DFT_s_OFDM_SCS30kHz_BPSK_RB1_0_CH646000



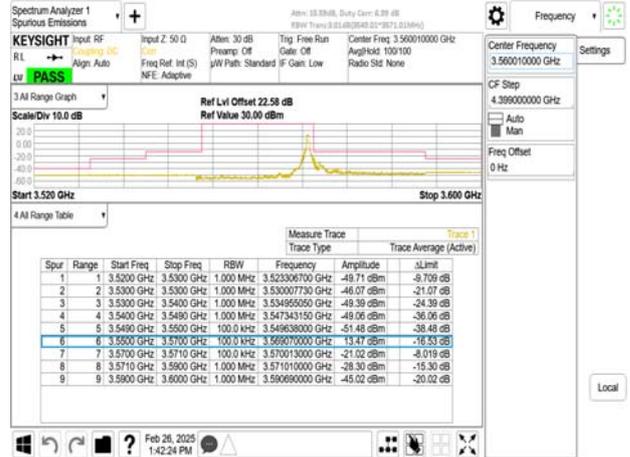
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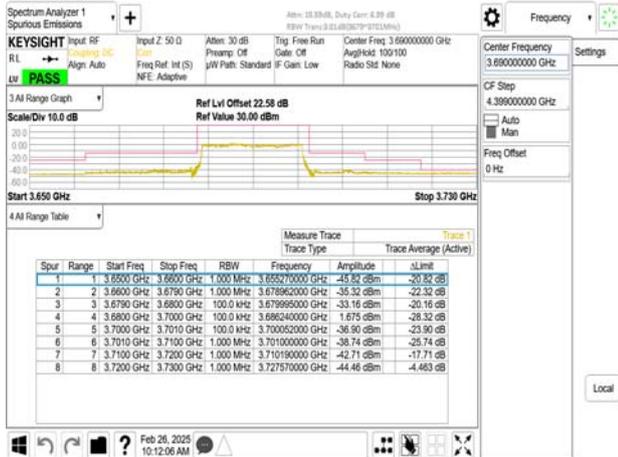
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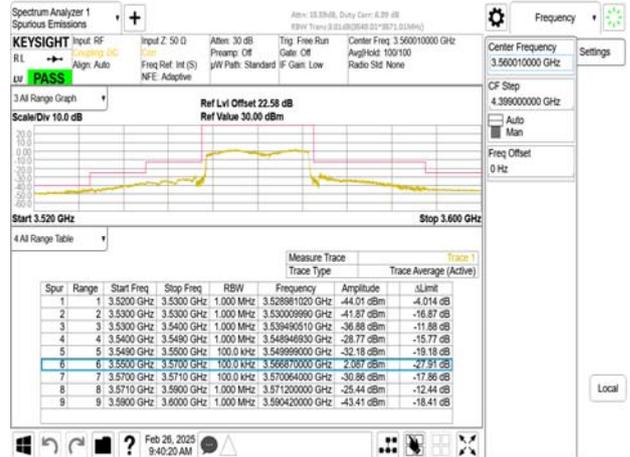
Band48_20MHz_CP_OFDM_SCS30kHz_QPSK_RB1_50_CH637334



Band48_20MHz_DFT_s_OFDM_SCS30kHz_BPSK_RB50_0_CH646000



Band48_20MHz_CP_OFDM_SCS30kHz_QPSK_RB50_0_CH637334

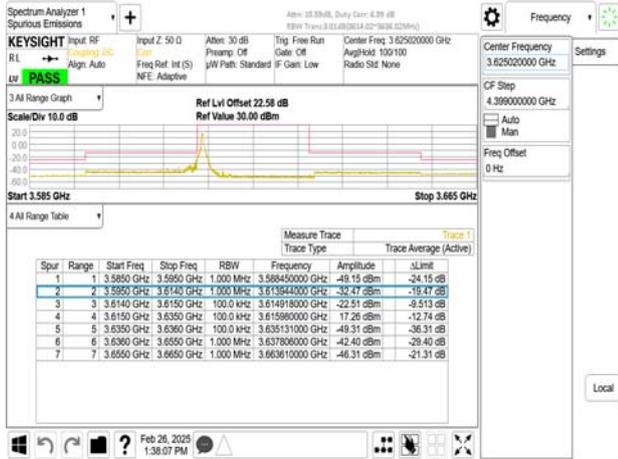


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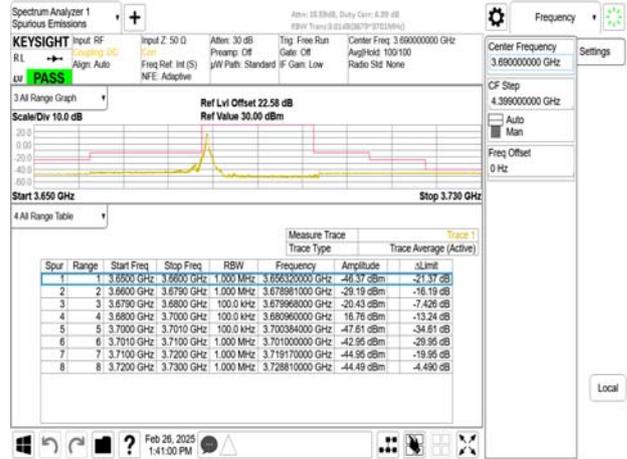
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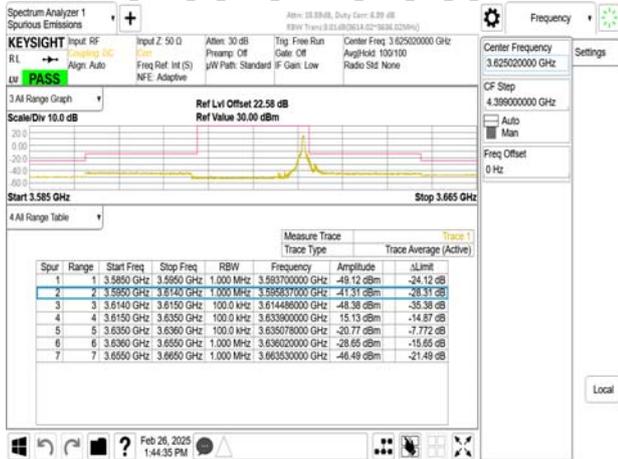
Band48_20MHz_CP_OFDM_SCS30kHz_QPSK_RB1_0_CH641668



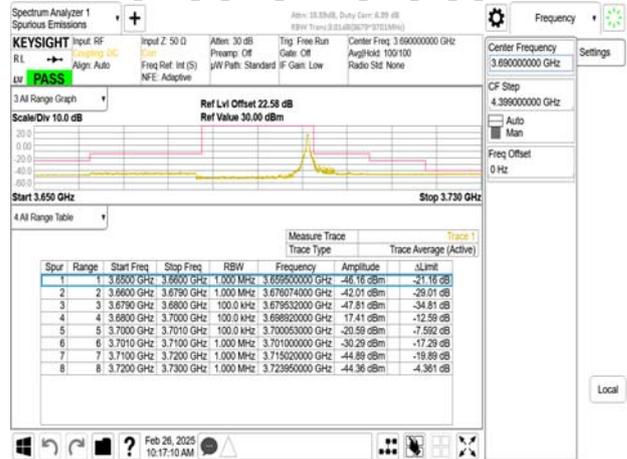
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Band48_20MHz_CP_OFDM_SCS30kHz_QPSK_RB1_50_CH641668



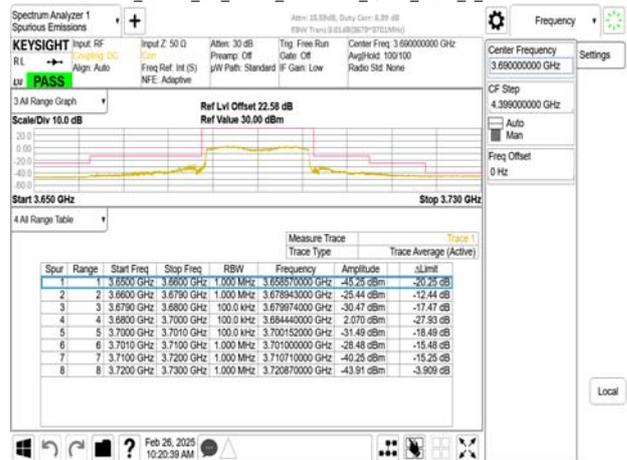
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Band48_20MHz_CP_OFDM_SCS30kHz_QPSK_RB51_0_CH641668



Band48_20MHz_CP_OFDM_SCS30kHz_QPSK_RB51_0_CH646000



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11 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

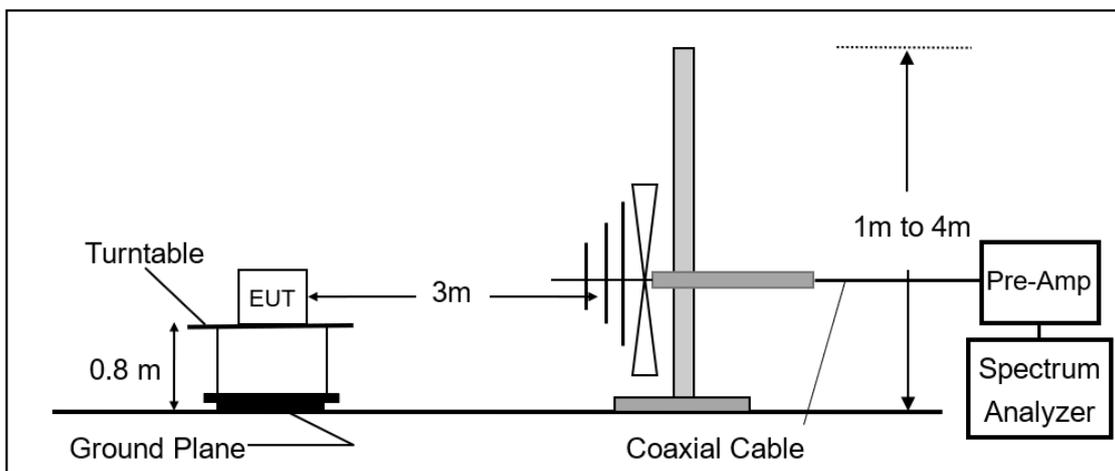
11.1 Standard Applicable

FCC Part 2.1053, Part 96.41 , C63.26 Clause 5.7

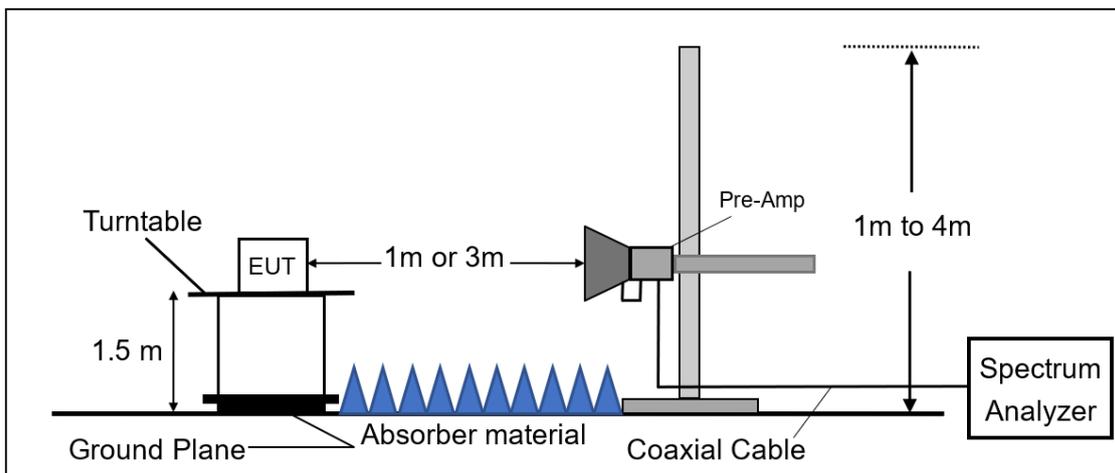
1. within 0 MHz to 10 MHz above and below the **assigned channel** ≤ -13 dBm/MHz
2. greater than 10 MHz above and below the **assigned channel** ≤ -25 dBm/MHz
3. any emission below 3530 MHz and above 3720 MHz ≤ -40 dBm/MHz

11.2 EUT Setup

Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz.



Radiated Emission Test Set-Up, Frequency Above 1GHz.



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11.3 Measurement Procedure:

The EUT was placed on a non-conductive; the measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

The frequency range up to tenth harmonic was investigated for each of three fundamental frequencies (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.

The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

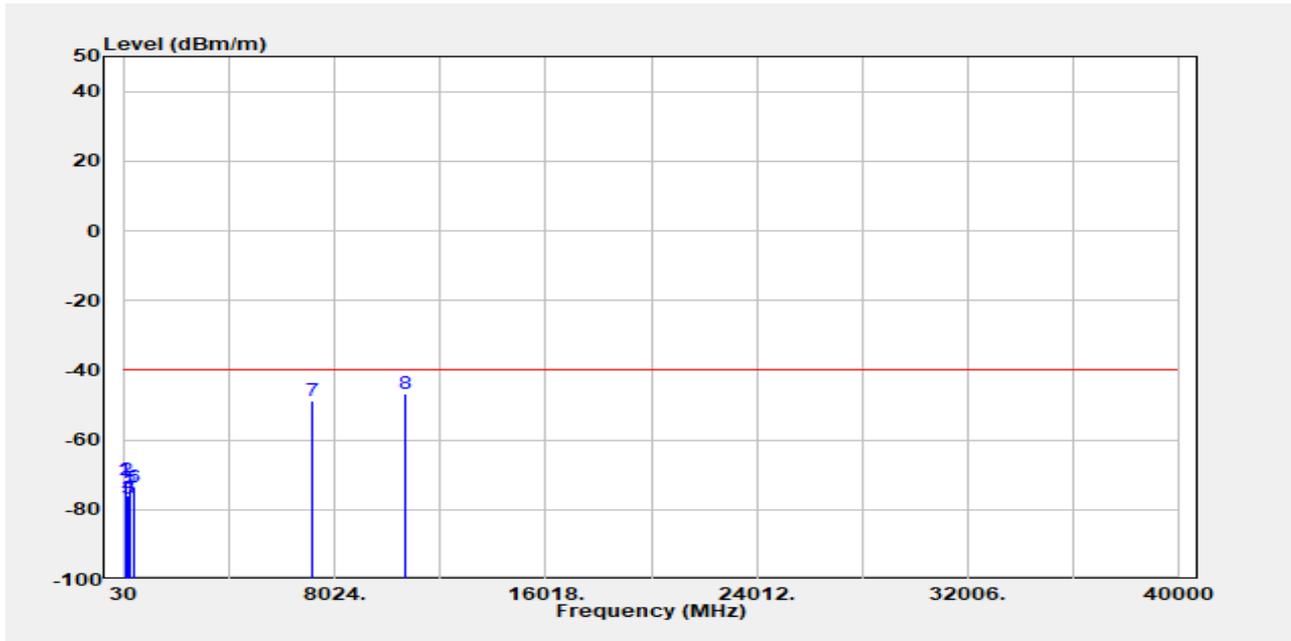
EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

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11.4 Measurement Result:

Report Number	:TERF2502000675ER	Test Site	:SAC 3
Operation Mode	:NR_n48	Test Date	:2025-02-25
Test Mode	:Tx	Temp./Humi.	:19.2°C/56%
EUT Pol	:H Plane	Antenna Pol.	:Vertical
Test Frequency	:3557.52 MHz	Engineer	:Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit @3m dBm	Margin dB
40.681	-71.35	-57.15	-13.03	-1.17	-40.00	-31.35
71.752	-71.35	-63.57	-6.22	-1.55	-40.00	-31.35
145.546	-76.84	-72.93	-1.70	-2.20	-40.00	-36.84
180.501	-76.03	-74.88	1.31	-2.45	-40.00	-36.03
229.049	-73.80	-75.81	4.77	-2.76	-40.00	-33.80
374.695	-73.45	-73.98	4.06	-3.53	-40.00	-33.45
7115.040	-48.88	-43.84	10.97	-16.01	-40.00	-8.88
10672.560	-46.73	-38.46	11.45	-19.71	-40.00	-6.73

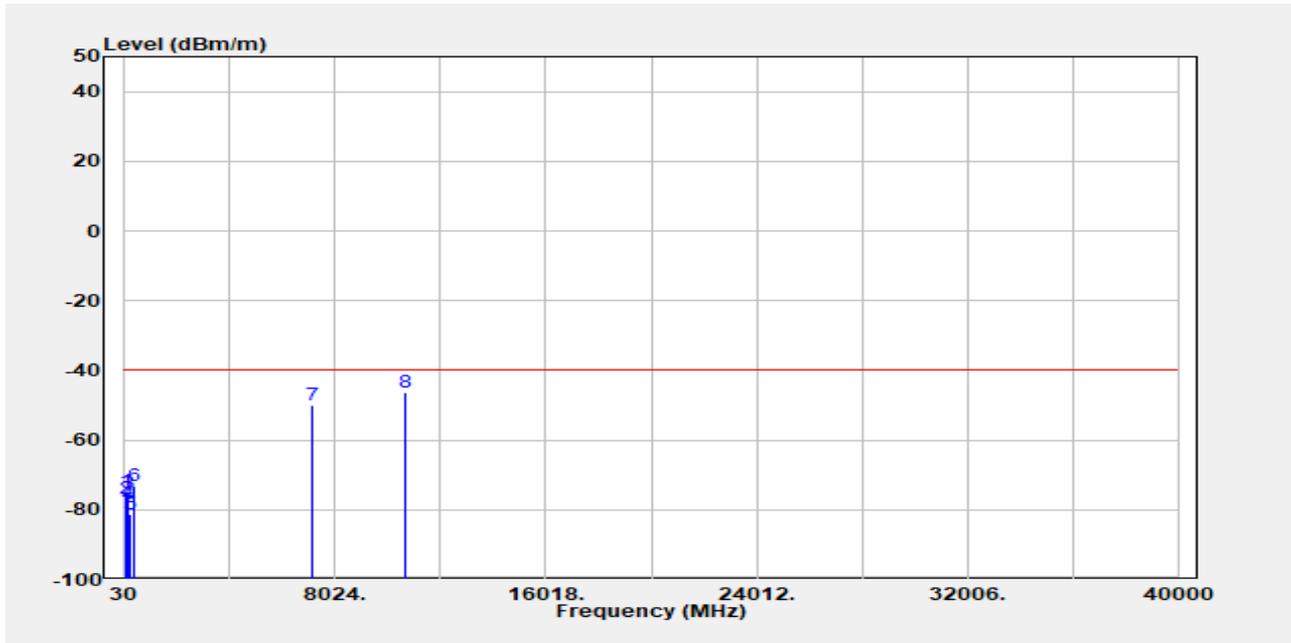
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Report Number :TERF2502000675ER
 Operation Mode :NR_n48
 Test Mode :Tx
 EUT Pol :H Plane
 Test Frequency :3557.52 MHz

Test Site :SAC 3
 Test Date :2025-02-25
 Temp./Humi. :19.2°C/56%
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit @3m dBm	Margin dB
70.781	-74.82	-66.84	-6.44	-1.54	-40.00	-34.82
88.258	-76.79	-73.96	-1.10	-1.72	-40.00	-36.79
148.459	-75.27	-71.40	-1.64	-2.23	-40.00	-35.27
181.472	-78.29	-77.33	1.50	-2.46	-40.00	-38.29
250.410	-81.19	-81.94	3.65	-2.89	-40.00	-41.19
374.695	-73.24	-73.77	4.06	-3.53	-40.00	-33.24
7115.040	-50.03	-45.00	10.97	-16.01	-40.00	-10.03
10672.560	-46.19	-37.93	11.45	-19.71	-40.00	-6.19

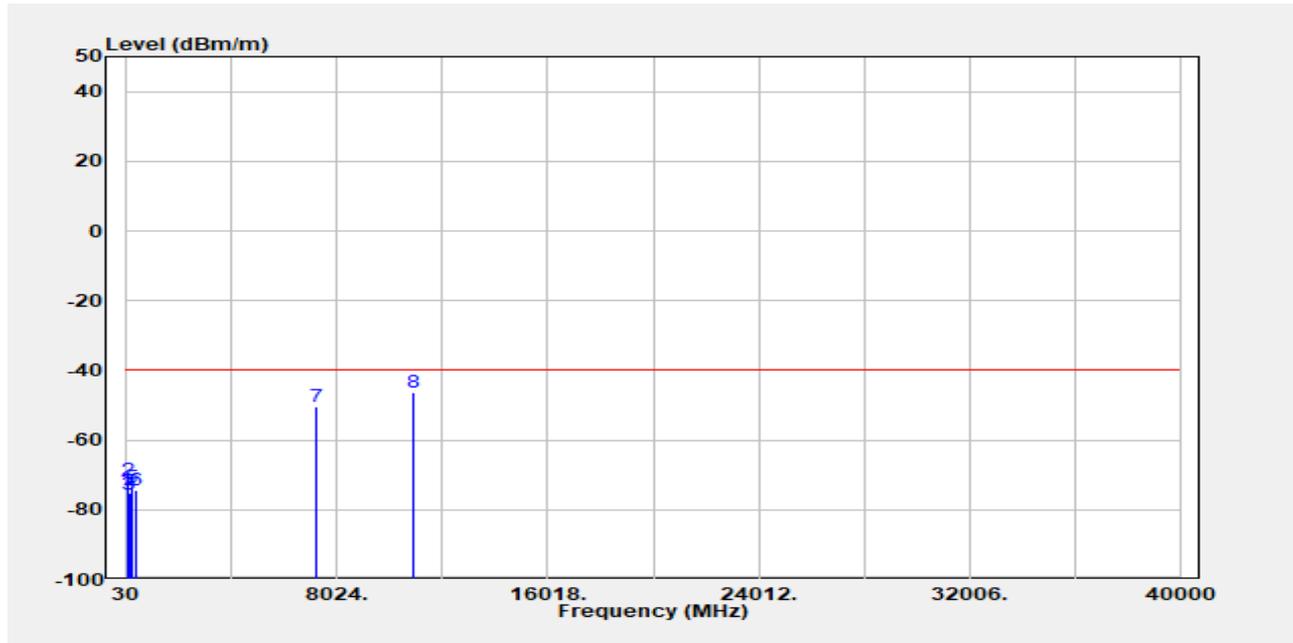
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Report Number :TERF2502000675ER
 Operation Mode :NR_n48
 Test Mode :Tx
 EUT Pol :H Plane
 Test Frequency :3625.02 MHz

Test Site :SAC 3
 Test Date :2025-02-25
 Temp./Humi. :19.2°C/56%
 Antenna Pol. :Vertical
 Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit @3m dBm	Margin dB
40.681	-74.49	-60.29	-13.03	-1.17	-40.00	-34.49
68.839	-71.34	-62.79	-7.04	-1.52	-40.00	-31.34
90.200	-75.46	-72.80	-0.92	-1.74	-40.00	-35.46
184.384	-75.13	-74.59	1.93	-2.48	-40.00	-35.13
230.020	-73.44	-75.37	4.71	-2.77	-40.00	-33.44
374.695	-74.26	-74.79	4.06	-3.53	-40.00	-34.26
7250.040	-50.28	-44.93	10.80	-16.15	-40.00	-10.28
10875.060	-46.23	-37.45	11.15	-19.94	-40.00	-6.23

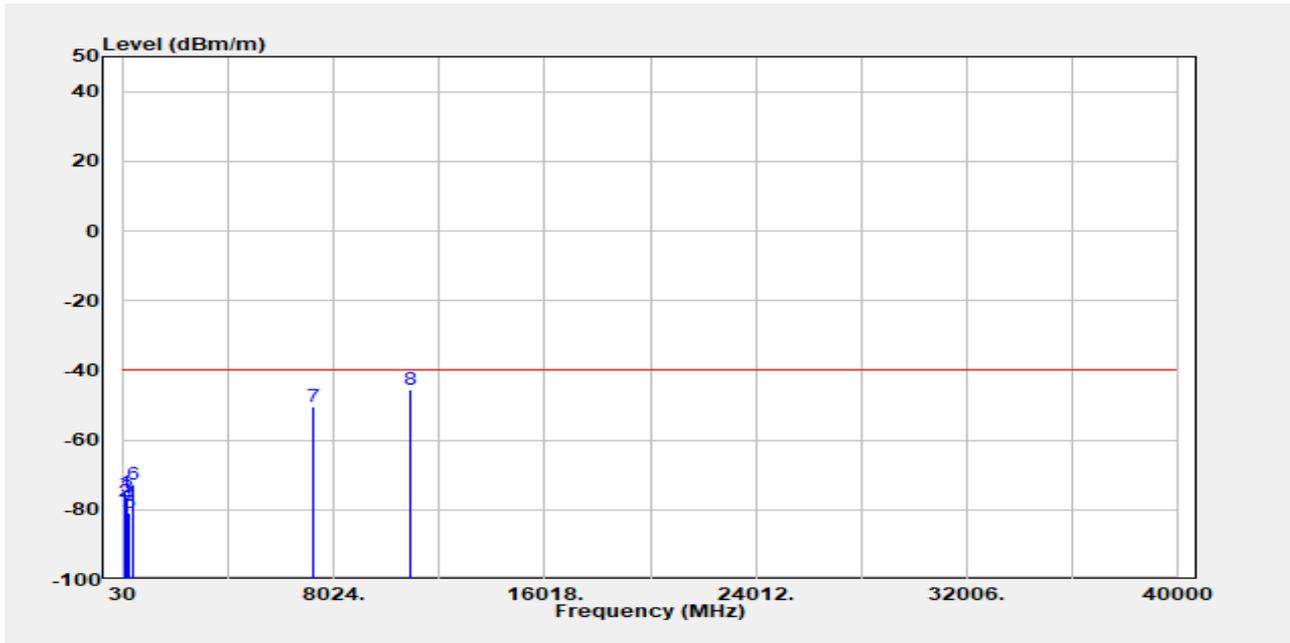
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Report Number :TERF2502000675ER
 Operation Mode :NR_n48
 Test Mode :Tx
 EUT Pol :H Plane
 Test Frequency :3625.02 MHz

Test Site :SAC 3
 Test Date :2025-02-25
 Temp./Humi. :19.2°C/56%
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit @3m dBm	Margin dB
70.781	-75.14	-67.16	-6.44	-1.54	-40.00	-35.14
88.258	-77.64	-74.81	-1.10	-1.72	-40.00	-37.64
148.459	-76.25	-72.38	-1.64	-2.23	-40.00	-36.25
180.501	-78.44	-77.29	1.31	-2.45	-40.00	-38.44
227.107	-80.70	-82.84	4.89	-2.75	-40.00	-40.70
374.695	-72.80	-73.33	4.06	-3.53	-40.00	-32.80
7250.040	-50.57	-45.22	10.80	-16.15	-40.00	-10.57
10875.060	-45.55	-36.76	11.15	-19.94	-40.00	-5.55

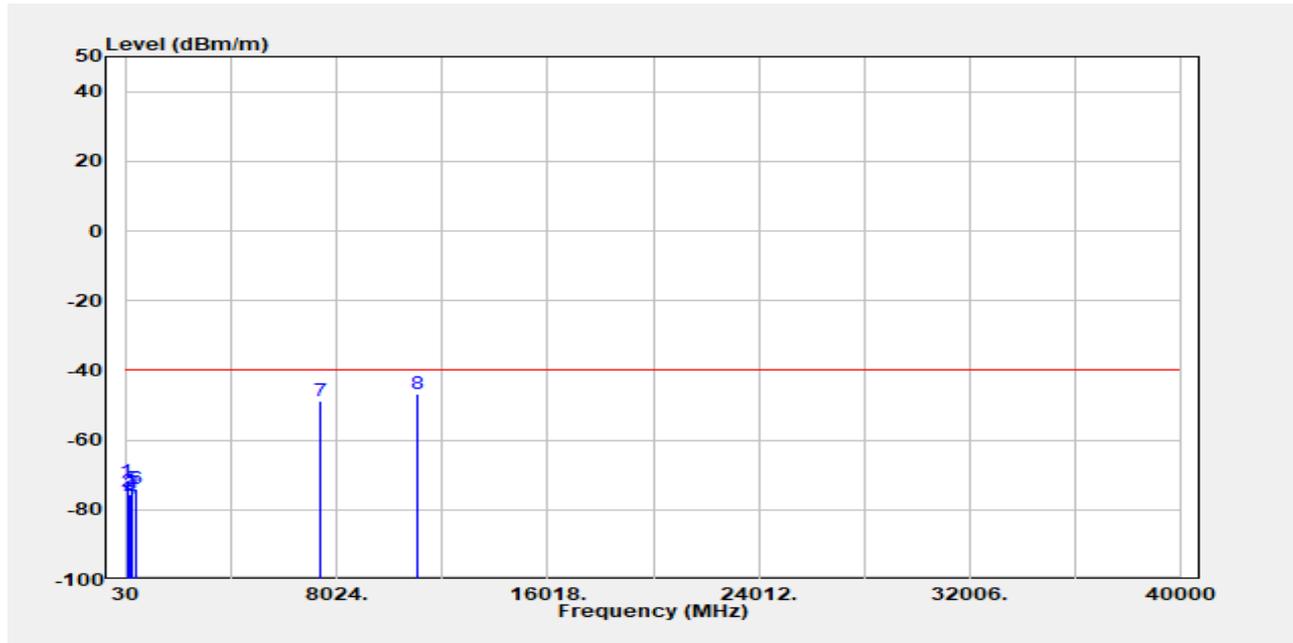
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Report Number :TERF2502000675ER
Operation Mode :NR_n48
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :3692.49 MHz

Test Site :SAC 3
Test Date :2025-02-25
Temp./Humi. :19.2°C/56%
Antenna Pol. :Vertical
Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit @3m dBm	Margin dB
40.681	-72.04	-57.84	-13.03	-1.17	-40.00	-32.04
68.839	-74.85	-66.29	-7.04	-1.52	-40.00	-34.85
146.517	-75.76	-71.80	-1.75	-2.21	-40.00	-35.76
180.501	-76.67	-75.53	1.31	-2.45	-40.00	-36.67
230.991	-74.02	-75.81	4.57	-2.78	-40.00	-34.02
374.695	-74.18	-74.71	4.06	-3.53	-40.00	-34.18
7384.980	-48.97	-43.55	10.90	-16.32	-40.00	-8.97
11077.470	-46.74	-37.93	11.31	-20.12	-40.00	-6.74

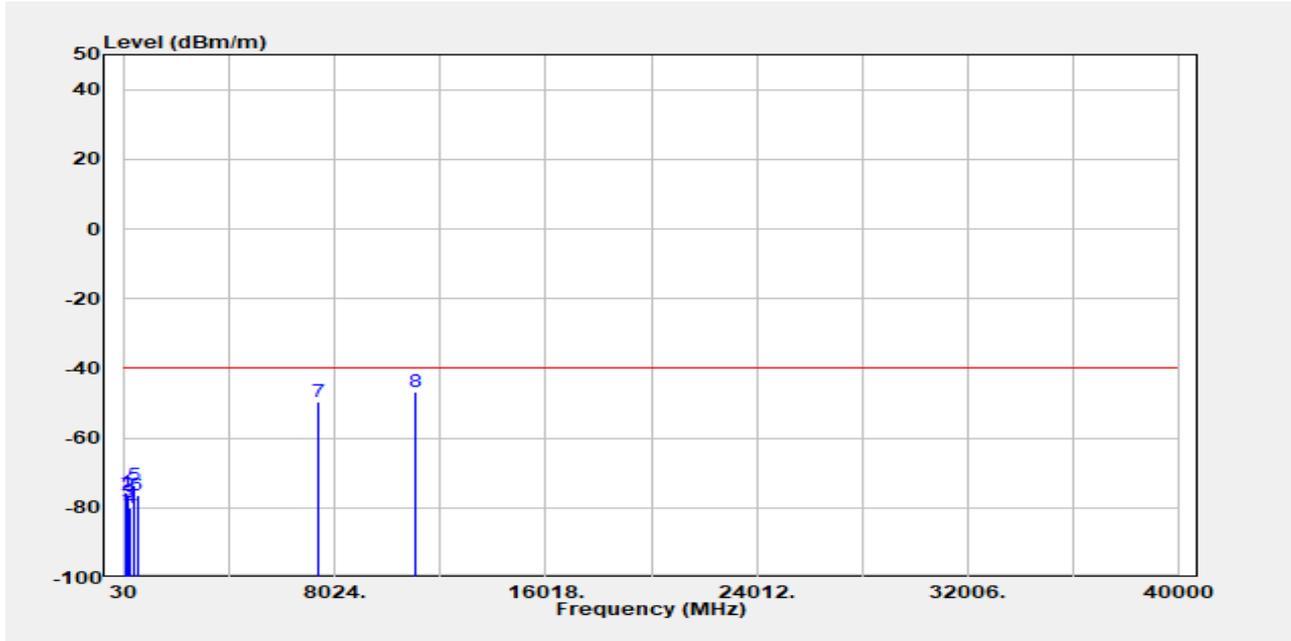
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Report Number :TERF2502000675ER
Operation Mode :NR_n48
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :3692.49 MHz

Test Site :SAC 3
Test Date :2025-02-25
Temp./Humi. :19.2°C/56%
Antenna Pol. :Horizontal
Engineer :Nick Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit @3m dBm	Margin dB
69.810	-75.41	-67.21	-6.68	-1.53	-40.00	-35.41
147.488	-76.45	-72.44	-1.79	-2.22	-40.00	-36.45
177.588	-78.46	-76.95	0.93	-2.44	-40.00	-38.46
227.107	-80.13	-82.26	4.89	-2.75	-40.00	-40.13
380.521	-73.46	-73.87	3.97	-3.56	-40.00	-33.46
499.950	-76.40	-76.37	4.06	-4.08	-40.00	-36.40
7384.980	-49.64	-44.22	10.90	-16.32	-40.00	-9.64
11077.470	-46.60	-37.79	11.31	-20.12	-40.00	-6.60

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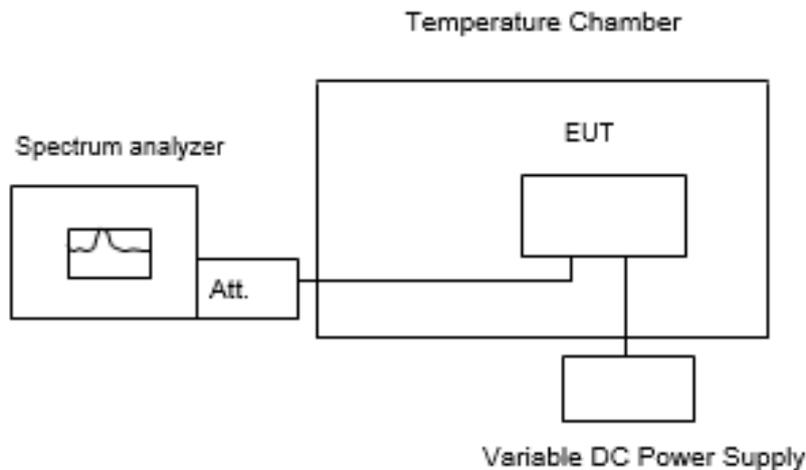
12 FREQUENCY STABILITY MEASUREMENT

12.1 Standard Applicabl

FCC §2.1055(a)

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency band. The frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ (± 2.5 ppm) of the center frequency.

12.2 Test Set-up



Note: Measurement setup for testing on Antenna connector

12.3 Measurement Procedure

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30°C . After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of $+50^{\circ}\text{C}$ reached.

Set chamber temperature to 25°C . Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation ($\pm 15\%$) and endpoint as declared by the manufacturer, record the maximum frequency change.

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12.4 Measurement Result

Note: The power is rated 120V ac.

Reference Freq.:	5G NR BAND n48		Modulation.:	CP-OFDM QPSK
SCS.:	30	kHz	Bandwidth:	20MHz
CH	641668		Frequency(MHz):	3625.02
Freq. ERROR vs. VOLTAGE				
Power Supply Vac	Temp. (°C)	Freq. (MHz)	(ppm)	Limit
138	20	3625.020003	0.000744823	+/- 2.5 ppm
120	20	3625.019999	-0.000220688	
102	20	3625.020003	0.000855168	
74 (End Point)	20	3625.020003	0.000689651	
Freq. ERROR vs. Temp.				
Power Supply Vac	Temp. (°C)	Freq. (MHz)	(ppm)	Limit
120	-30	3625.019997	-0.000717237	+/- 2.5 ppm
120	-20	3625.019998	-0.000524135	
120	-10	3625.019999	-0.000165516	
120	0	3625.020003	0.000799996	
120	10	3625.019996	-0.001020684	
120	20	3625.019997	-0.000827582	
120	30	3625.019998	-0.000524135	
120	40	3625.020001	0.000248274	
120	50	3625.019996	-0.001241372	

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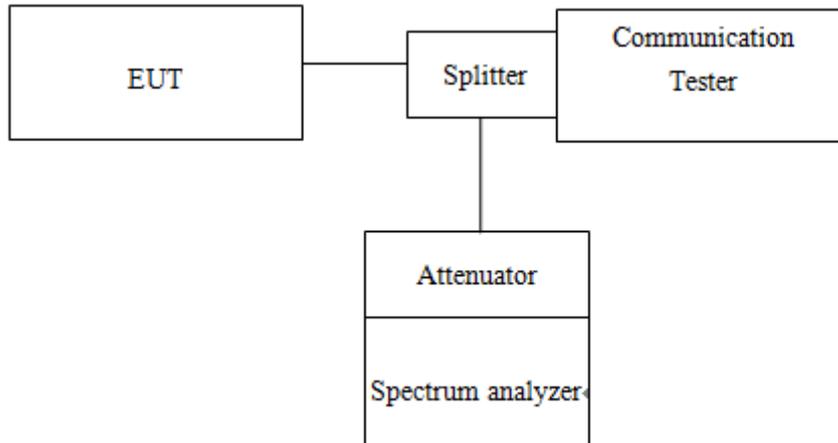
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13 PEAK TO AVERAGE RATIO

13.1 Standard Applicable

The peak-to-average ratio (PAR) of the transmission may not exceed 13dB.

13.2 Test SET-UP



13.3 Measurement Procedure

1. KDB 971168 D01 is employed as the following procedure is proper adjusted accordingly:
2. Set resolution/measurement bandwidth \geq signal's occupied bandwidth; & internal =1ms
3. Set the number of counts to a value that stabilizes the measured CCDF curve.

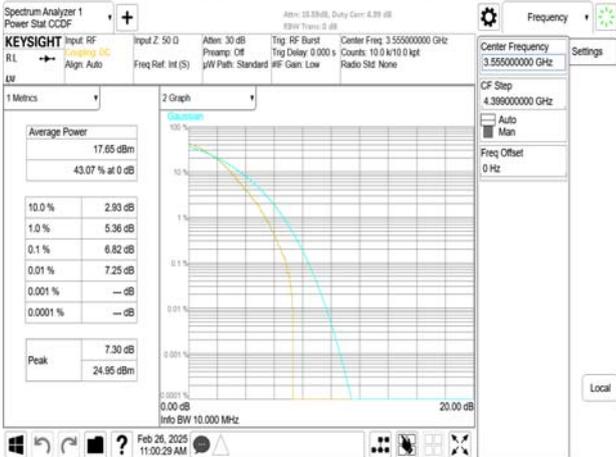
13.4 Measurement Result

5G NR BAND n48 Part96(3550 to 3700 MHz)			
DFT-S-OFDM_SCS 30 kHz			
Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit
3555.00	637000	6.82	13
3625.02	641668	6.65	13
3694.98	646332	6.44	13
Channel bandwidth: 15MHz			
Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit
3557.52	637168	6.93	13
3625.02	641668	6.95	13
3692.49	646166	6.65	13
Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit
3560.01	637334	6.88	13
3625.02	641668	6.61	13
3690.00	646000	6.61	13

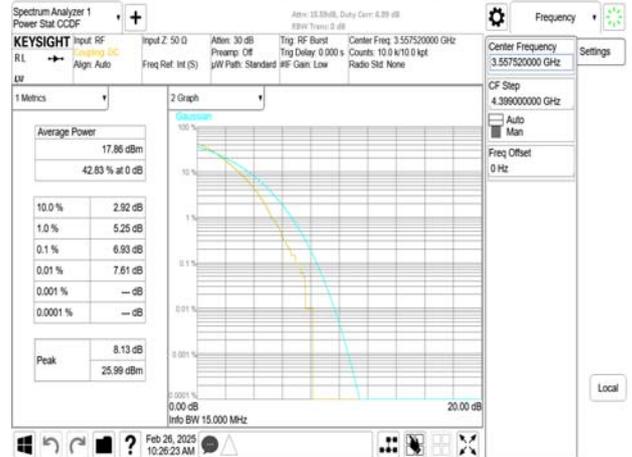
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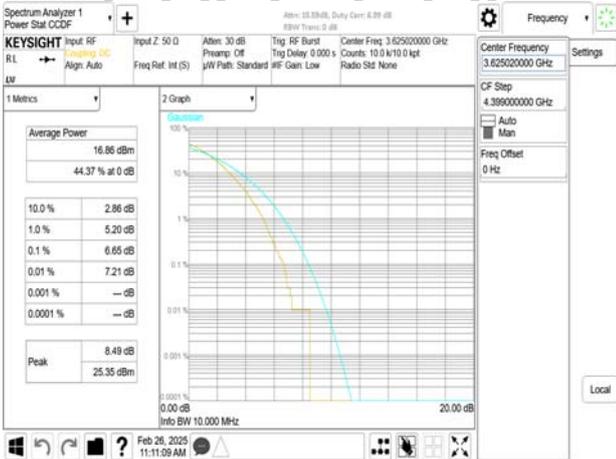
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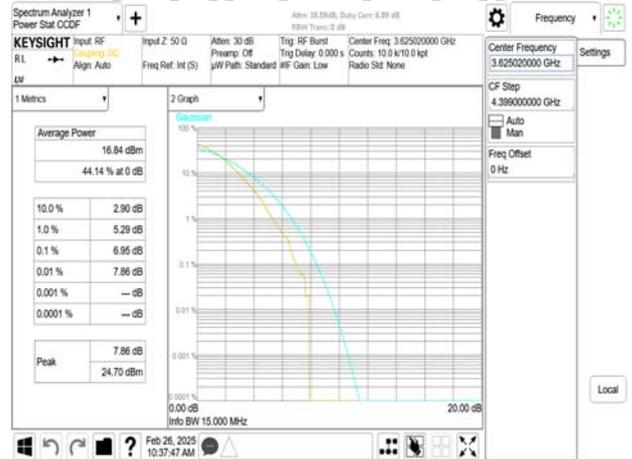
Band48_15MHz_DFT_s_OFDM_SCS30kHz_256QAM_RB36_0_CH637168



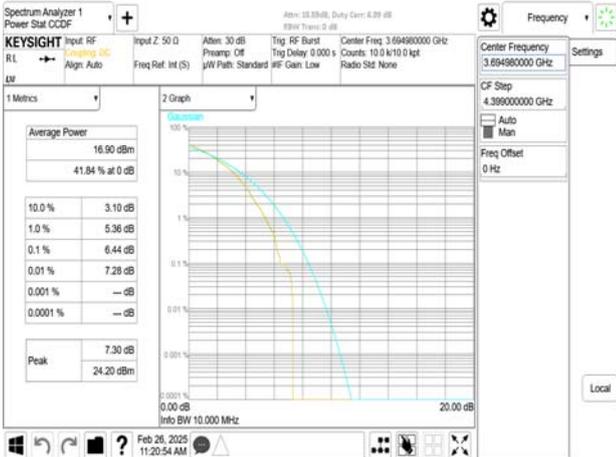
Band48_10MHz_DFT_s_OFDM_SCS30kHz_256QAM_RB24_0_CH641668



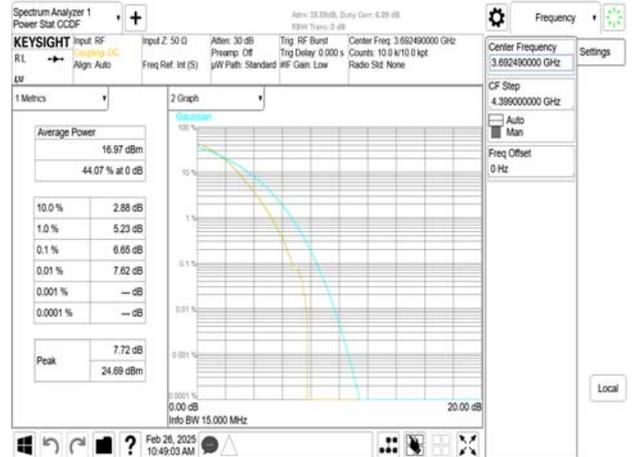
Band48_15MHz_DFT_s_OFDM_SCS30kHz_256QAM_RB36_0_CH641668



Band48_10MHz_DFT_s_OFDM_SCS30kHz_256QAM_RB24_0_CH646332



Band48_15MHz_DFT_s_OFDM_SCS30kHz_256QAM_RB36_0_CH646166

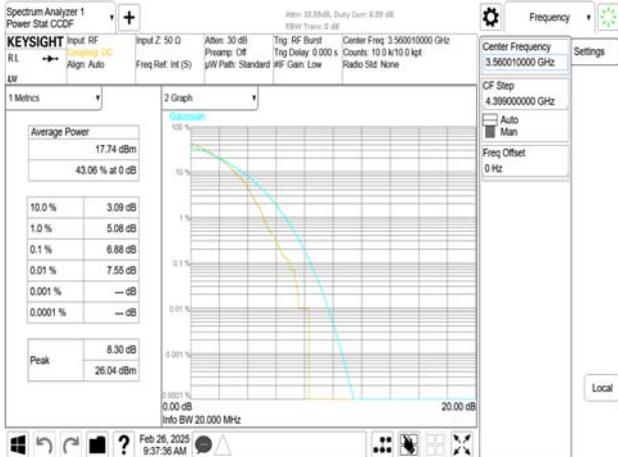


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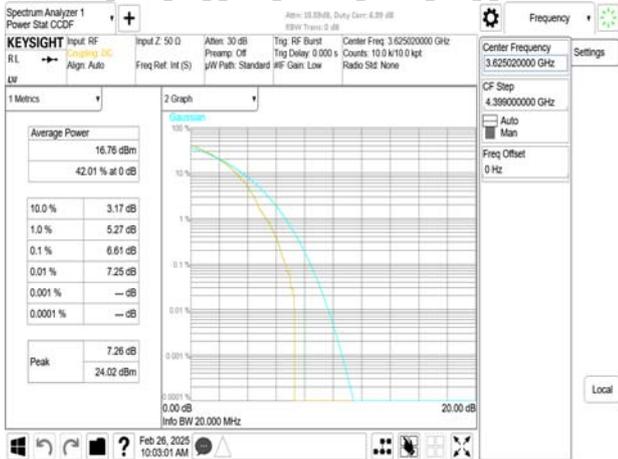
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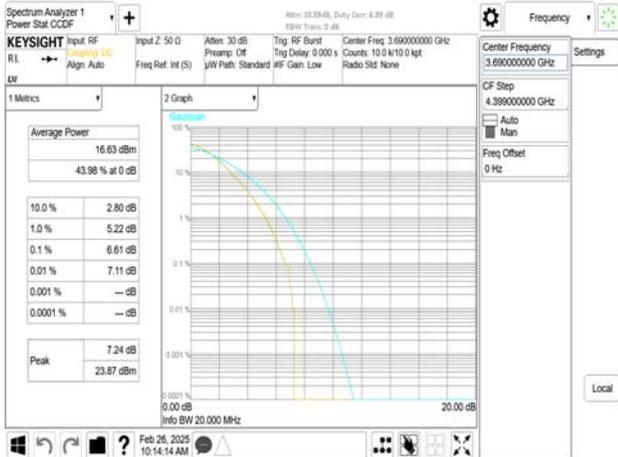
Band48_20MHz_DFT_s_OFDM_SCS30kHz_256QAM_RB50_0_CH673334



Band48_20MHz_DFT_s_OFDM_SCS30kHz_256QAM_RB50_0_CH641668



Band48_20MHz_DFT_s_OFDM_SCS30kHz_256QAM_RB50_0_CH646000



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14 PHOTOGRAPHS OF SET UP

Please refer to the attached file (Setup Photo)

15 PHOTOGRAPHS OF EUT

Please refer to the attached file (EUT Photo)

~ End of Report ~

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