

**PART 22 MEASUREMENT REPORT****Applicant Name:**

Apple Inc.
One Apple Park Way
Cupertino, CA 95014
United States

Date of Testing:

04/04/2025 - 7/17/2025

Test Report Issue Date:

8/15/2025

Test Site/Location:

Element Materials Technology Morgan Hill, CA, USA

Test Report Serial No.:

1C2503270036-01.BCG

FCC ID:

BCG-A3326

Applicant Name:

Apple Inc.

Application Type:

Certification

Model:

A3326, A3327

EUT Type:

Watch

FCC Classification:

PCS Licensed Transmitter Worn on Body (PCT)

FCC Rule Part:

22

Test Procedure(s):

ANSI C63.26-2015, TIA-603-E-2016, KDB 971168 D01
v03r01

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in §2.947. Test results reported herein relate only to the item(s) tested.


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.



RJ Ortanez

Executive Vice President




FCC ID: BCG-A3326	 PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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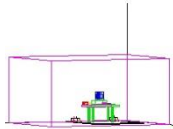
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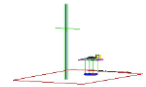
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Mode	Bandwidth	Modulation	Tx Frequency Range [MHz]	OBW [MHz]	ERP		Emission Designator
					Max. Power [mW]	Max. Power [dBm]	
Band 5	1.4 MHz	QPSK	824.7 - 848.3	1.0951	0.543	-2.65	1M10G7W
		16QAM	824.7 - 848.3	1.1084	0.430	-3.67	1M11D7W
	3 MHz	QPSK	825.5 - 847.5	2.7093	0.536	-2.71	2M71G7W
		16QAM	825.5 - 847.5	2.7099	0.415	-3.82	2M71D7W
	5 MHz	QPSK	826.5 - 846.5	4.5477	0.497	-3.04	4M55G7W
		16QAM	826.5 - 846.5	4.5211	0.416	-3.81	4M52D7W
	10 MHz	QPSK	829.0 - 844.0	9.0180	0.495	-3.05	9M02G7W
		16QAM	829.0 - 844.0	5.0973	0.406	-3.91	5M10D7W
Band 26	1.4 MHz	QPSK	824.7 - 848.3	1.0951	0.519	-2.85	1M10G7W
		16QAM	824.7 - 848.3	1.1084	0.404	-3.94	1M11D7W
	3 MHz	QPSK	825.5 - 847.5	2.7093	0.530	-2.76	2M71G7W
		16QAM	825.5 - 847.5	2.7099	0.422	-3.75	2M71D7W
	5 MHz	QPSK	826.5 - 846.5	4.5477	0.521	-2.83	4M55G7W
		16QAM	826.5 - 846.5	4.5211	0.398	-4.00	4M52D7W
	10 MHz	QPSK	829.0 - 844.0	9.0180	0.543	-2.65	9M02G7W
		16QAM	829.0 - 844.0	5.0973	0.421	-3.76	5M10D7W

EUT Overview


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Mode	Bandwidth	Modulation	Tx Frequency Range [MHz]	OBW [MHz]	ERP		Emission Designator
					Max. Power [mW]	Max. Power [dBm]	
NR Band n5	5 MHz	π/2 BPSK	826.5 - 846.5	4.4562	0.526	-2.79	4M46G7W
		QPSK	826.5 - 846.5	4.4861	0.543	-2.65	4M49G7W
		16QAM	826.5 - 846.5	4.4950	0.418	-3.79	4M50D7W
		64QAM	826.5 - 846.5	4.4965	0.342	-4.66	4M50D7W
	10 MHz	π/2 BPSK	829.0 - 844.0	8.8809	0.515	-2.88	8M88G7W
		QPSK	829.0 - 844.0	9.3071	0.543	-2.65	9M31G7W
		16QAM	829.0 - 844.0	9.2944	0.432	-3.65	9M29D7W
		64QAM	829.0 - 844.0	9.3013	0.344	-4.63	9M30D7W
	15 MHz	π/2 BPSK	831.5 - 841.5	13.4530	0.543	-2.65	13M5G7W
		QPSK	831.5 - 841.5	14.1500	0.540	-2.68	14M2G7W
		16QAM	831.5 - 841.5	14.1660	0.430	-3.67	14M2D7W
		64QAM	831.5 - 841.5	14.1310	0.337	-4.73	14M1D7W
	20 MHz	π/2 BPSK	834.0 - 839.0	17.8080	0.542	-2.66	17M8G7W
		QPSK	834.0 - 839.0	18.9330	0.543	-2.65	18M9G7W
		16QAM	834.0 - 839.0	18.9400	0.433	-3.64	18M9D7W
		64QAM	834.0 - 839.0	18.9160	0.344	-4.63	18M9D7W
NR Band n26	5 MHz	π/2 BPSK	826.5 - 846.5	4.4562	0.543	-2.65	4M46G7W
		QPSK	826.5 - 846.5	4.4861	0.542	-2.66	4M49G7W
		16QAM	826.5 - 846.5	4.4950	0.419	-3.78	4M50D7W
		64QAM	826.5 - 846.5	4.4965	0.337	-4.73	4M50D7W
	10 MHz	π/2 BPSK	829.0 - 844.0	8.8809	0.543	-2.65	8M88G7W
		QPSK	829.0 - 844.0	9.3071	0.542	-2.66	9M31G7W
		16QAM	829.0 - 844.0	9.2944	0.432	-3.65	9M29D7W
		64QAM	829.0 - 844.0	9.3013	0.340	-4.69	9M30D7W
	15 MHz	π/2 BPSK	831.5 - 841.5	13.4530	0.543	-2.65	13M5G7W
		QPSK	831.5 - 841.5	14.1500	0.536	-2.71	14M2G7W
		16QAM	831.5 - 841.5	14.1660	0.425	-3.72	14M2D7W
		64QAM	831.5 - 841.5	14.1310	0.345	-4.62	14M1D7W
	20 MHz	π/2 BPSK	834.0 - 839.0	17.8080	0.540	-2.68	17M8G7W
		QPSK	834.0 - 839.0	18.9330	0.543	-2.65	18M9G7W
		16QAM	834.0 - 839.0	18.9400	0.432	-3.65	18M9D7W
		64QAM	834.0 - 839.0	18.9160	0.342	-4.66	18M9D7W

EUT Overview

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1.0 INTRODUCTION

1.1 Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Innovation, Science and Economic Development Canada.


1.2 Element Materials Technology Test Location

These measurement tests were conducted at the Element Materials Technology facility located at 18855 Adams Court, Morgan Hill, CA 95037. The measurement facility is compliant with the test site requirements specified in ANSI C63.4-2014 and KDB 414788 D01 v01r01.

1.3 Test Facility / Accreditations

Measurements were performed at Element Materials Technology.

- Element Materials Technology is an ISO 17025-2017 accredited test facility under the American Association for Laboratory Accreditation (A2LA) with Certificate number 2041.02 for Specific Absorption Rate (SAR), Hearing Aid Compatibility (HAC) testing, where applicable, and Electromagnetic Compatibility (EMC) testing for FCC and Innovation, Science, and Economic Development Canada rules.
- Element Washington DC LLC TCB is a Telecommunication Certification Body (TCB) accredited to ISO/IEC 17065-2012 by A2LA (Certificate number 2041.03) in all scopes of FCC Rules and ISED Standards (RSS).
- Element Materials Technology facility is a registered (22831) test laboratory with the site description on file with ISED.
- Element Washington DC LLC is a Recognized U.S. Certification Assessment Body (CAB # US0110) for ISED Canada as designated by NIST under the U.S. and Canada Mutual Recognition Agreements (MRAs).

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2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **Apple Watch FCC ID: BCG-A3326**. The test data contained in this report pertains only to the emissions due to the EUT's licensed transmitters that operate under the provisions of Part 22.

Test Device Serial No.: MF7K9LJ6VK, M16N6GJ25G, CP2N1WXM76, MR2NY2MWRD, FN6HFV000XA0000Y2G

2.2 Device Capabilities

This device contains the following capabilities:

Multi-band LTE, 5G NR (FR1), 802.11b/g/n WLAN, Bluetooth (1x, EDR, HDR4, HDR8, LE1M, LE2M), NFC.

This device supports simultaneous transmission operations, which allows for multiple transmitters to transmit simultaneously on the same antenna. The table below shows all configurations possible.


Simultaneous Tx Config	Antenna FCM		
	WLAN	Bluetooth	LTE/FR1
	802.11b/g/n	BDR, EDR, HDR4/8, LE1/2M	Mid/High Band
Config 1	✓	✗	✓
Config 2	✗	✓	✓

Table 2-1. Simultaneous Transmission Configurations

✓ = Support; ✗ = Not Support

Note:

All the above simultaneous transmission configurations have been tested and the worst-case configuration was found to be Config 2 and reported in RF Bluetooth and RF FCC Part 27b test reports.

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2.3 Antenna Description

The following antenna gain provided by the manufacturer was used for testing.


Band	Antenna Gain [dBi]
	Antenna BCM
LTE Band 26/5	-26.20
NR Band n26/n5	

Table 2-2. Highest Antenna Gain

2.4 Test Support Equipment

1	Apple Macbook	Model:	A1398	S/N:	FVFDHG8TP3XY
	w/AC/DC Adapter	Model:	A1435	S/N:	N/A
2	Apple USB-C cable	Model:	N/A	S/N:	N/A
	w/ Charging Dock	Model:	N/A	S/N:	SAA24DEN24xP2444600752
	w/ Cradle	Model:	N/A	S/N:	SAA24ETN24xP1429700454
3	Apple Magnetic Charger	Model:	A2515	S/N:	DLC313306ZQ1NR1A7
	Apple Magnetic Charger	Model:	A2879	S/N:	DLCH5T0012A00000WB
4	Pathfinder Davenport	Model:	920-15901-01	S/N:	DLCH64000270000QA0
	SiP Socket	Model:	P1 N24X S PF 235	S/N:	DLCH6B000BY0000UR6
5	DC Power Supply	Model:	SPS3010	S/N:	N/A

Table 2-3. Test Support Equipment

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2.5 Test Configuration

The EUT was tested per the guidance of ANSI C63.26 2015, TIA-603-E-2016 and KDB 971168 D01 v03r01. See Section 7.0 of this test report for a description of the radiated and antenna port conducted emissions tests.

The worst case configuration was investigated for the various types of wristbands, metal and non-metal wristbands. The EUT was also investigated with and without wireless charger. The worst case configuration found was used for all testing.

For emissions from 1GHz – 18GHz, low, mid, and high channels were tested with highest power and worst case configuration. The emissions below 1GHz were tested with the highest transmitting power and the worst case channel.

The EUT was manipulated through three orthogonal planes of X-orientation (flatbed), Y-orientation (landscape), and Z-orientation (portrait) during the testing. Only the worst case emissions were reported in this test report.


This device only supports 27RBs or less for LTE 16-QAM uplink.

2.6 Software and Firmware

The test was conducted with firmware version watchOS 26 installed on the EUT.

2.7 EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and no modifications were made during testing.

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3.0 DESCRIPTION OF TESTS

3.1 Measurement Procedure

The measurement procedures described in the documents titled “American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services” (ANSI C63.26-2015 and TIA-603-E-2016) and “Procedures for Compliance Measurement of the Fundamental Emission Power of Licensed Wideband (> 1 MHz) Digital Transmission Systems” (KDB 971168 D01 v03r01) were used in the measurement of the EUT.

Deviation from Measurement Procedure.....None

3.2 Radiated Spurious Emissions

The radiated test facilities consisted of an indoor 3 meter semi-anechoic chamber used for final measurements and exploratory measurements, when necessary. The measurement area is contained within the semi-anechoic chamber which is shielded from any ambient interference. The test site inside the chamber is a 6m x 5.2m elliptical, obstruction-free area in accordance with Figure 5.7 of Clause 5 in ANSI C63.4-2014. Absorbers are arranged on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections for measurements above 1GHz. For measurements below 1GHz, the absorbers are removed. A raised turntable is used for radiated measurement. The turn table is a continuously rotatable, remote-controlled, metallic turntable and 2 meters (6.56 ft.) in diameter. The turn table is flush with the raised floor of the chamber in order to maintain its function as a ground plane. An 80cm tall test table made of Styrodur is placed on top of the turn table. A Styrodur pedestal is placed on top of the test table to bring the total table height to 1.5m.

The equipment under test was transmitting while connected to its integral antenna and is placed on a turntable 3 meters from the receive antenna. The receive antenna height is adjusted between 1 and 4 meter height, the turntable is rotated through 360 degrees, and the EUT is manipulated through all orthogonal planes representative of its typical use to achieve the highest reading on the receive spectrum analyzer.

For radiated spurious emissions measurements and calculations, conversion method is used per the formulas in KDB 971168 Section 5.8.4. Field Strength (EIRP) is calculated using the following formulas:

$$E_{[\text{dB}\mu\text{V/m}]} = \text{Measured amplitude level}_{[\text{dBm}]} + 107 + \text{Cable Loss}_{[\text{dB}]} + \text{Antenna Factor}_{[\text{dB/m}]}$$


And

$$\text{EIRP}_{[\text{dBm}]} = E_{[\text{dB}\mu\text{V/m}]} + 20\log D - 104.8; \text{ where } D \text{ is the measurement distance in meters.}$$

All radiated measurements are performed in a chamber that meets the site requirements per ANSI C63.4-2014.

Per KDB 414788 D01 v01r01, radiated emission test sites other than open-field test sites (e.g., shielded anechoic chambers), may be employed for emission measurements below 30MHz if characterized so that the measurements correspond to those obtained at an open-field test site. To determine test site equivalency, a reference sample transmitting at 149kHz was measured on an open field test site (asphalt with no ground plane) and then measured in the 3m semi-anechoic chamber. A calibrated 60cm loop antenna was used while the reference device was rotated through the X, Y and Z axis in order to capture the worst case level. A maximum deviation of 2.77dB at 149kHz was measured when comparing the 3 meter semi-anechoic chamber to the open field site.

Radiated spurious emission levels are investigated with the receive antenna horizontally and vertically polarized per ANSI C63.26-2015 and TIA-603-E-2016.

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4.0 MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.23-2012. All measurement uncertainty values are shown with a coverage factor of $k = 2$ to indicate a 95% level of confidence. The measurement uncertainty shown below meets or exceeds the U_{CISPR} measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

Contribution	Expanded Uncertainty (\pm dB)
Conducted Bench Top Measurements	2.07
Radiated Disturbance (<30MHz)	4.12
Radiated Disturbance (30MHz-1GHz)	4.85
Radiated Disturbance (1-18GHz)	5.08

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5.0 TEST EQUIPMENT CALIBRATION DATA


Test Equipment Calibration is traceable to the National Institute of Standards and Technology (NIST). Measurements antennas used during testing were calibrated in accordance to the requirements of ANSI C63.5-2017.

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent Technologies	N9030A	3Hz-26.5GHz PXA Signal Analyzer	10/31/2024	Annual	10/31/2025	MY55330128
ATM	180-442-KF	20dB Nominal Gain Horn Antenna	3/24/2025	Annual	3/24/2026	T058601-02
ESPEC	SU-241	Tabletop Temperature Chamber	10/24/2024	Annual	10/24/2025	92009574
ETS-Lindgren	3117	Double Ridged Guide Antenna (1-18 GHz)	9/25/2024	Annual	9/25/2025	240109
Fairview Microwave	FMCA1975-36	30MHz-40GHz Conducted Cable *	6/17/2025	Annual	6/17/2026	-
Fairview Microwave	M2CP1122-10	30MHz-40GHz Conducted Coupler *	6/17/2025	Annual	6/17/2026	1946
Keysight Technology	N9040B	UXA Signal Analyzer	6/9/2025	Annual	6/9/2026	MYS7212015
MCL	BW-K10-2W44+	Attenuator *	6/17/2025	Annual	6/17/2026	-
Rohde & Schwarz	ESW44	EMI Test Receiver	10/17/2024	Annual	10/17/2025	101668
Rohde & Schwarz	FSV40	Signal Analyzer (10Hz-40GHz)	5/20/2025	Annual	5/20/2026	101619
Rohde & Schwarz	FSW67	Signal and Spectrum Analyzer (2Hz-67GHz)	1/7/2025	Annual	1/7/2026	101366
Rohde & Schwarz	TS-PR18	Pre-Amplifier (1GHz - 18GHz)	8/14/2024	Annual	8/14/2025	101648
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	12/10/2024	Annual	12/10/2025	161616
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	3/4/2025	Annual	3/4/2026	164715
Rohde & Schwarz	HFH2-Z2	Loop Antenna	5/12/2025	Annual	5/12/2026	100546
Rohde & Schwarz	HFH2-Z2	Loop Antenna	6/26/2025	Annual	6/26/2026	100519
Rohde & Schwarz	TS-PR1840	Pre-Amplifier (18GHz - 40GHz)	6/3/2025	Annual	6/3/2026	100052
Rohde & Schwarz	TS-PR8	Pre-Amplifier (30MHz - 8GHz)	11/15/2024	Annual	11/15/2025	102326
Schwarzbeck	VULB 9162	Bilog Antenna (30MHz - 6GHz)	9/18/2024	Annual	9/18/2025	358

Table 5-1. Test Equipment

Notes:

- For equipment listed above that has a calibration date or calibration due date that falls within the test date range, care was taken to ensure that this equipment was used after the calibration date and before the calibration due date.
- * denotes passive equipment that have been internally verified/calibrated.

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6.0 SAMPLE CALCULATIONS

Emission Designator

$\pi/2$ BPSK / QPSK Modulation

Emission Designator = 8M62G7W

BW = 8.62 MHz

G = Phase Modulation

7 = Quantized/Digital Info

W = Combination of Any

QAM Modulation

Emission Designator = 8M45D7W

BW = 8.45 MHz

D = Amplitude/Angle Modulated


7 = Quantized/Digital Info

W = Combination of Any

Spurious Radiated Emission

Example: Spurious emission at 3700.40 MHz

The receive spectrum analyzer reading at 3 meters with the EUT on the turntable was -81.0 dBm. The gain of the substituted antenna is 8.1 dBi. The signal generator connected to the substituted antenna terminals is adjusted to produce a reading of -81.0 dBm on the spectrum analyzer. The loss of the cable between the signal generator and the terminals of the substituted antenna is 2.0 dB at 3700.40 MHz. So 6.1 dB is added to the signal generator reading of -30.9 dBm yielding -24.80 dBm. The fundamental EIRP was 25.50 dBm so this harmonic was 25.50 dBm $- (-24.80) = 50.3$ dBc.

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7.0 TEST RESULTS

7.1 Summary


Company Name: Apple Inc.
 FCC ID: BCG-A3326
 FCC Classification: PCS Licensed Transmitter Worn on Body (PCT)
 Mode(s): LTE/NR

Test Condition	Test Description	FCC Part Section(s)	Test Limit	Test Result	Reference
CONDUCTED	Occupied Bandwidth	2.1049	N/A	N/A	Section 7.2
	Conducted Band Edge / Spurious Emissions	2.1051, 22.917(a)	-13 dBm at Band Edge and for all out-of-band emissions	PASS	Sections 7.3, 7.4
	Transmitter Conducted Output Power	2.1046	N/A	N/A	See RF Exposure Report
	Effective Radiated Power / Equivalent Isotropic Radiated Power	22.913(a)(5)	< 7 Watts max. ERP	PASS	Section 7.5
	Frequency Stability	2.1055, 22.355	±2.5 ppm	PASS	Section 7.7
RADIATED	Radiated Spurious Emissions	2.1053, 22.917(a)	-13 dBm for all out-of-band emissions	PASS	Section 7.6

Table 7-1. Summary of Test Results

Notes:

1. All modes of operation and data rates were investigated. The test results shown in the following sections represent the worst case emissions.
2. The analyzer plots were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables, directional couplers, and attenuators used as part of the system to maintain a link between the call box and the EUT at all frequencies of interest.
3. All antenna port conducted emissions testing was performed on a test bench with the antenna port of the EUT connected to the spectrum analyzer through calibrated cables, attenuators, and couplers.
4. All conducted emissions measurements are performed with automated test software to capture the corresponding plots necessary to show compliance. The measurement software utilized is Element EMC Software Tool v1.1
5. For radiated spurious emissions, automated test software was used to measure emissions and capture the corresponding plots necessary to show compliance. The measurement software utilized is Element "Chamber Automation," Version 3.4.2.

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7.2 Occupied Bandwidth

§2.1049

Test Overview


The occupied bandwidth, that 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 radiated by a given emission shall be measured. All modes of operation were investigated and the worst case configuration results are reported in this section.

Test Procedure Used

KDB 971168 D01 v03r01 – Section 4.2

Test Settings

1. The signal analyzer's automatic bandwidth measurement capability was used to perform the 99% occupied bandwidth and the 26dB bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. RBW = 1 – 5% of the expected OBW
3. VBW $\geq 3 \times$ RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. The trace was allowed to stabilize
8. If necessary, steps 2 – 7 were repeated after changing the RBW such that it would be within 1 – 5% of the 99% occupied bandwidth observed in Step 7

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Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

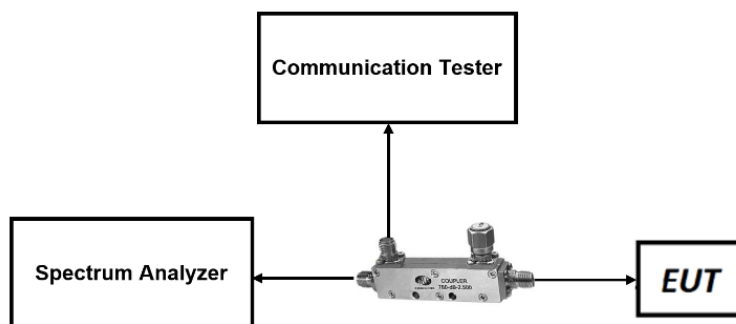


Figure 7-1. LTE Test Instrument & Measurement Setup

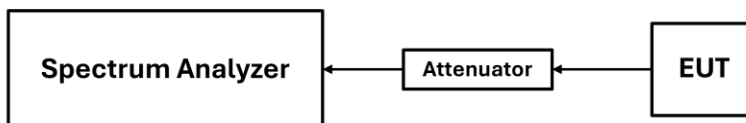



Figure 7-2. FR1 Test Instrument & Measurement Setup

Test Notes

None.

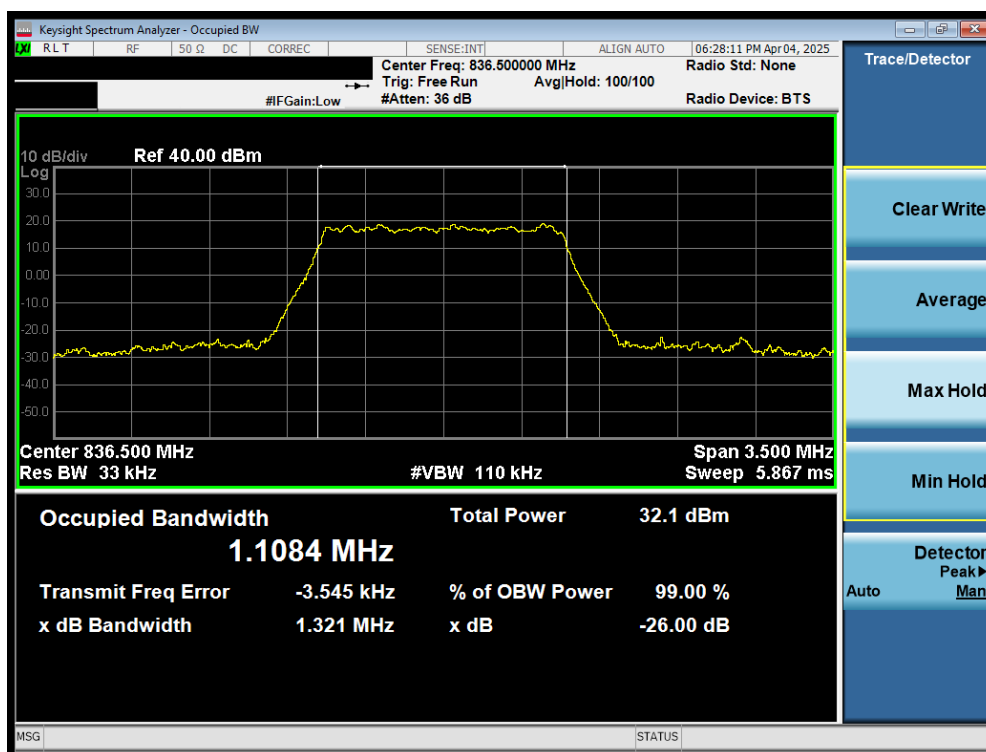
FCC ID: BCG-A3326	 PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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LTE Band 26/5



Plot 7-1. Occupied Bandwidth Plot (LTE Band 26/5 - 1.4MHz QPSK - Full RB Configuration)

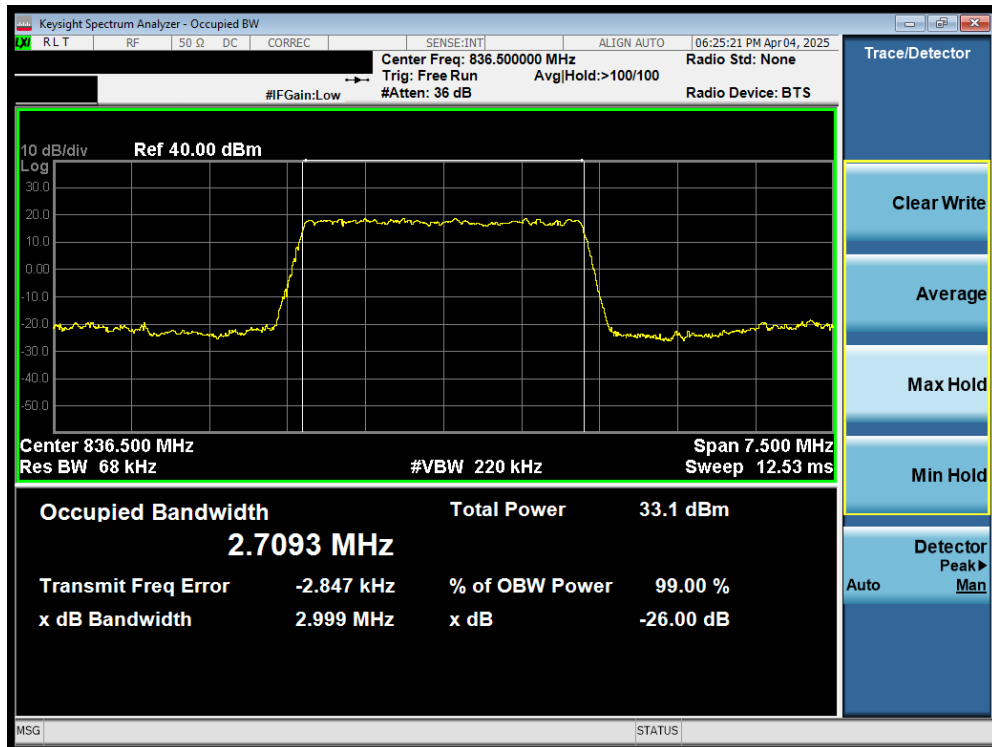


Plot 7-2. Occupied Bandwidth Plot (LTE Band 26/5 - 1.4MHz 16-QAM - Full RB Configuration)

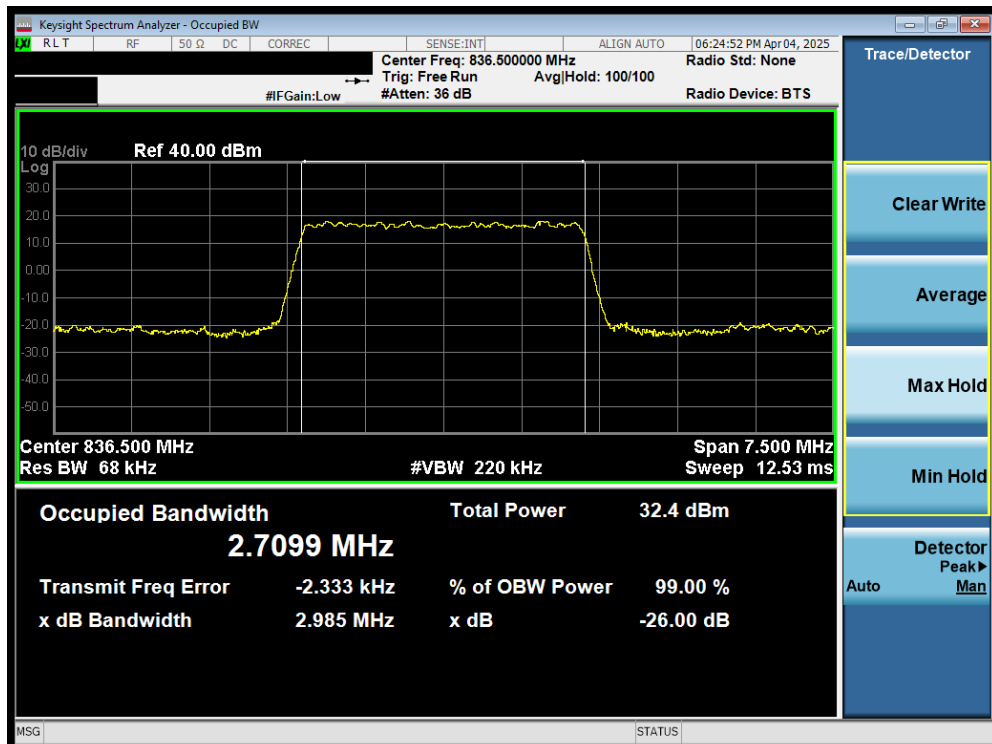
FCC ID: BCG-A3326		PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-3. Occupied Bandwidth Plot (LTE Band 26/5 - 3MHz QPSK - Full RB Configuration)

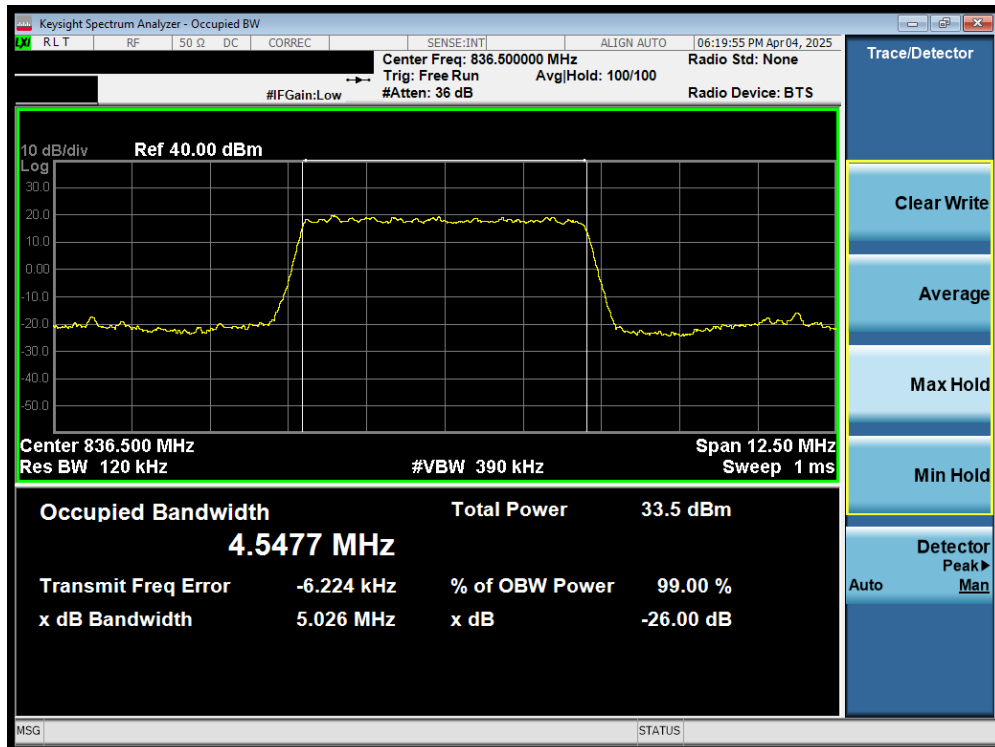


Plot 7-4. Occupied Bandwidth Plot (LTE Band 26/5 - 3MHz 16-QAM - Full RB Configuration)

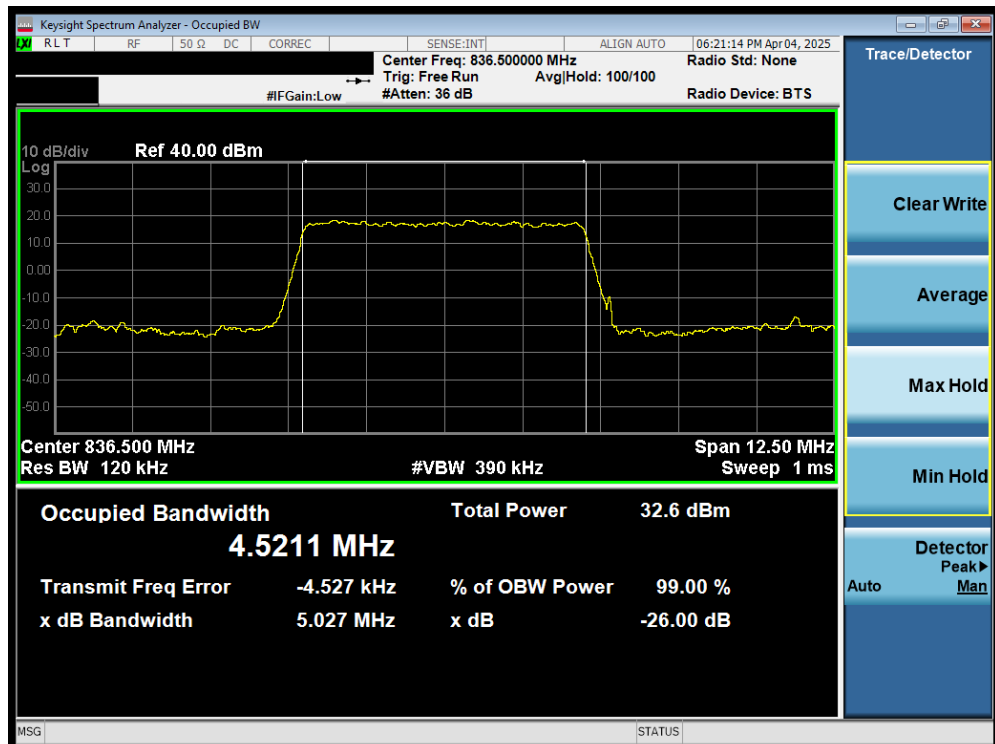
FCC ID: BCG-A3326	 PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-5. Occupied Bandwidth Plot (LTE Band 26/5 - 5MHz QPSK - Full RB Configuration)

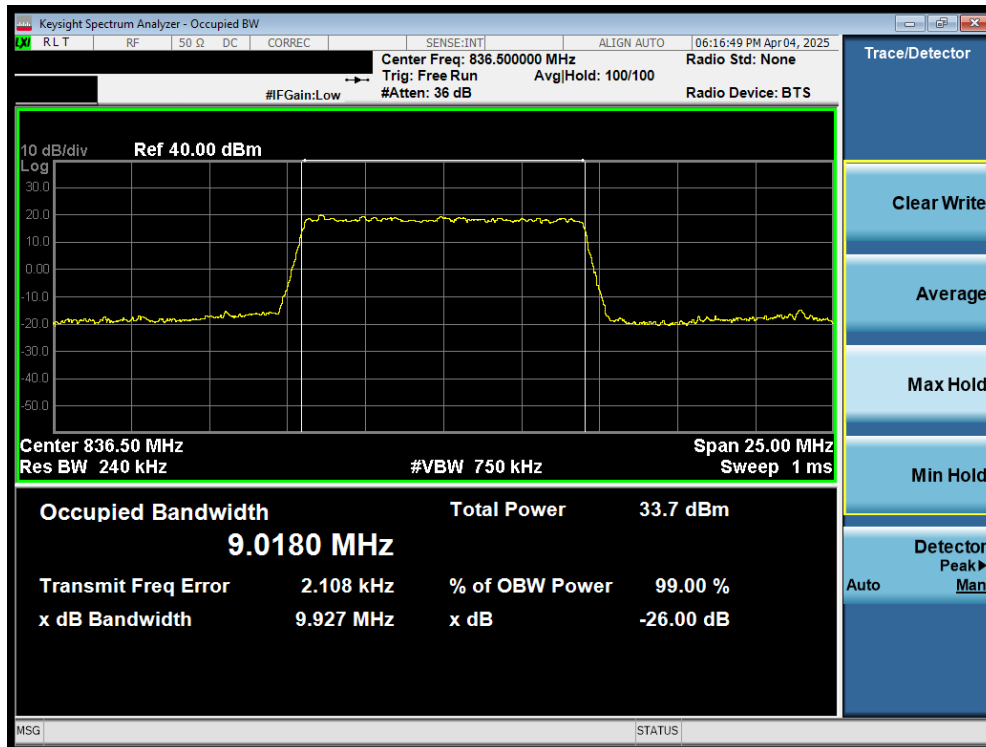


Plot 7-6. Occupied Bandwidth Plot (LTE Band 26/5 - 5MHz 16-QAM - Full RB Configuration)

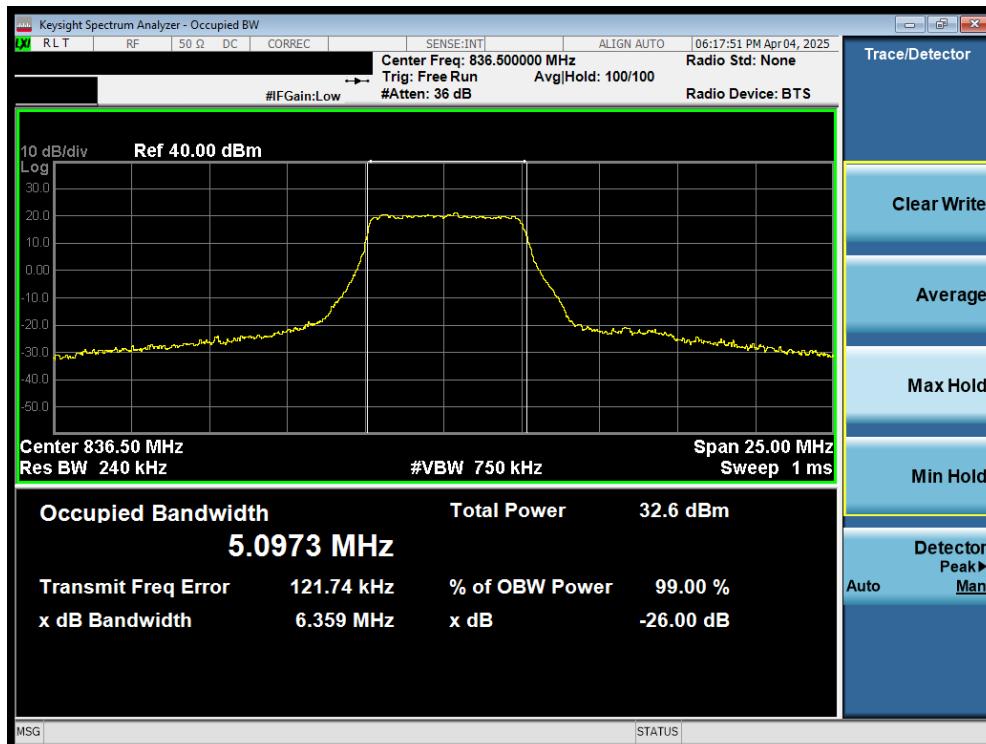
FCC ID: BCG-A3326		PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-7. Occupied Bandwidth Plot (LTE Band 26/5 - 10MHz QPSK - Full RB Configuration)



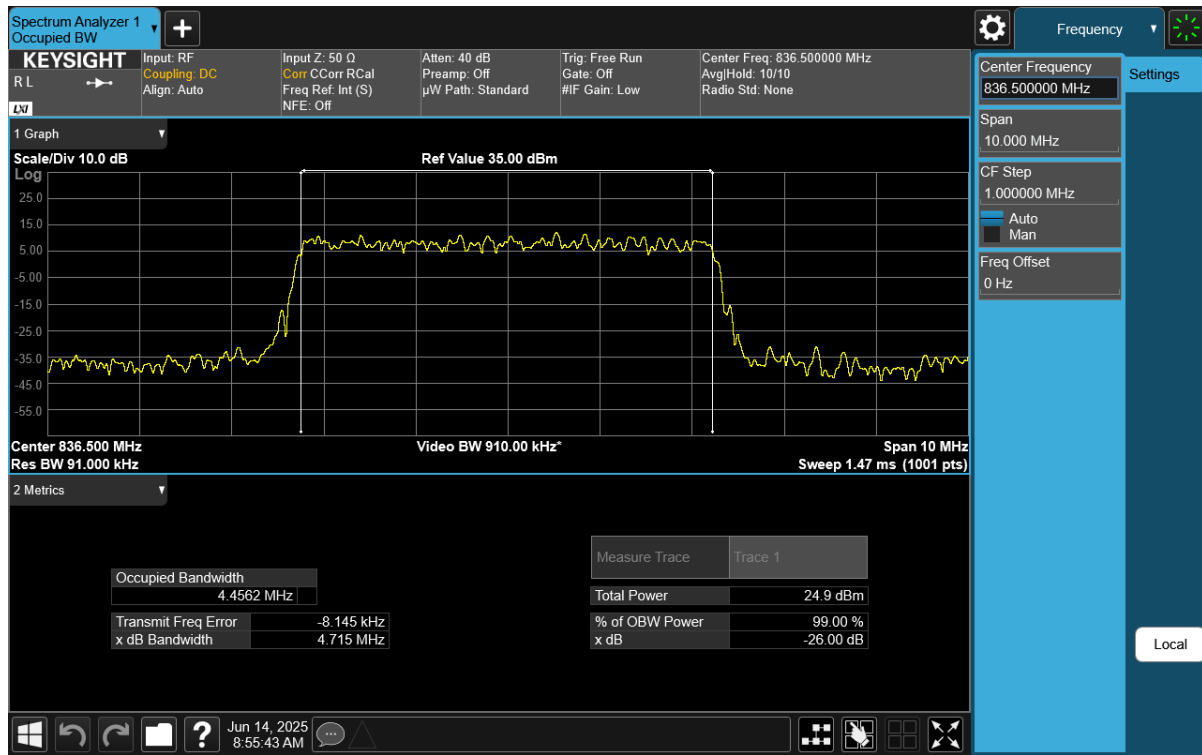
Plot 7-8. Occupied Bandwidth Plot (LTE Band 26/5 - 10MHz 16-QAM - Full RB Configuration)

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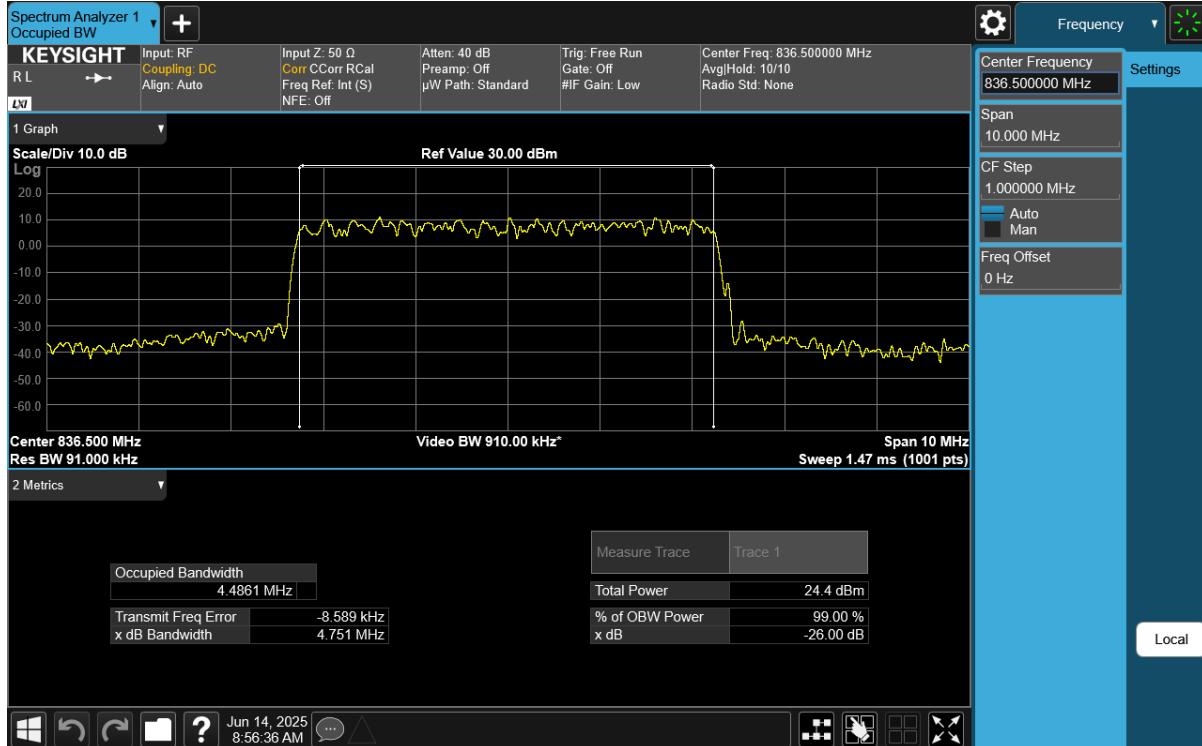
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NR Band n26/n5



Plot 7-9. Occupied Bandwidth Plot (NR Band n26/n5 - 5MHz n5 DFT-s-OFDM $\pi/2$ BPSK - Full RB Configuration)

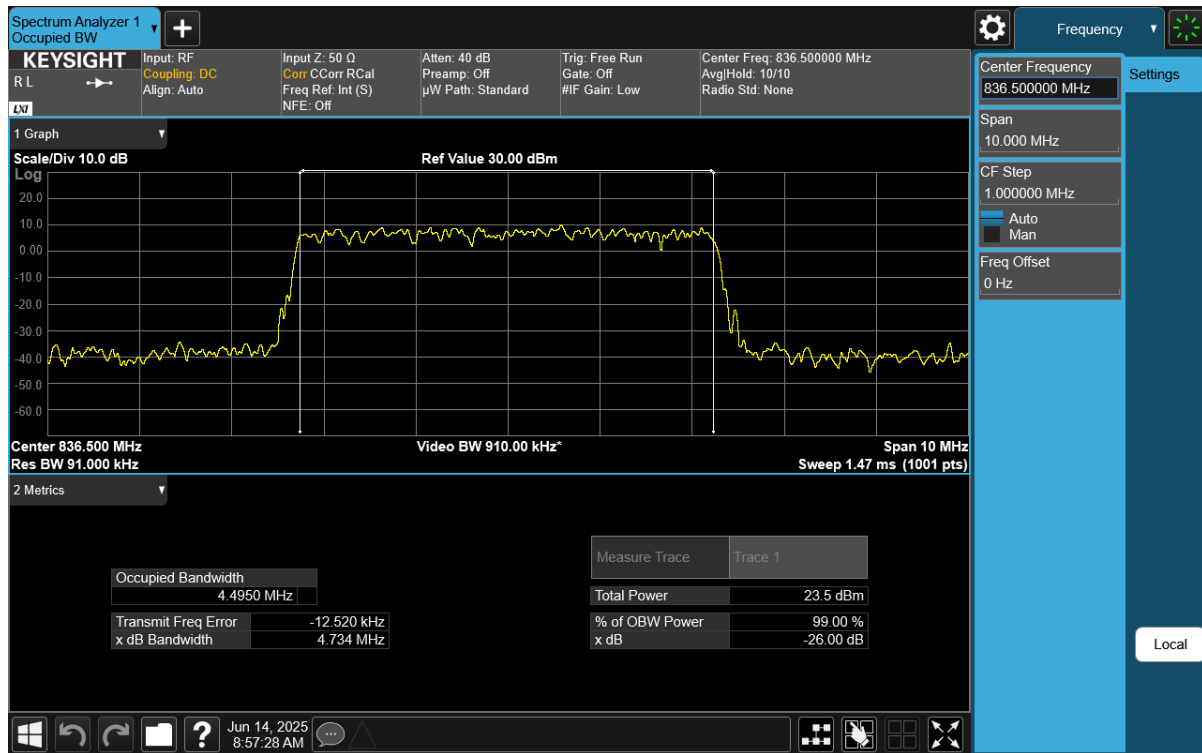


Plot 7-10. Occupied Bandwidth Plot (NR Band n26/n5 - 5MHz DFT-s-OFDM QPSK - Full RB Configuration)

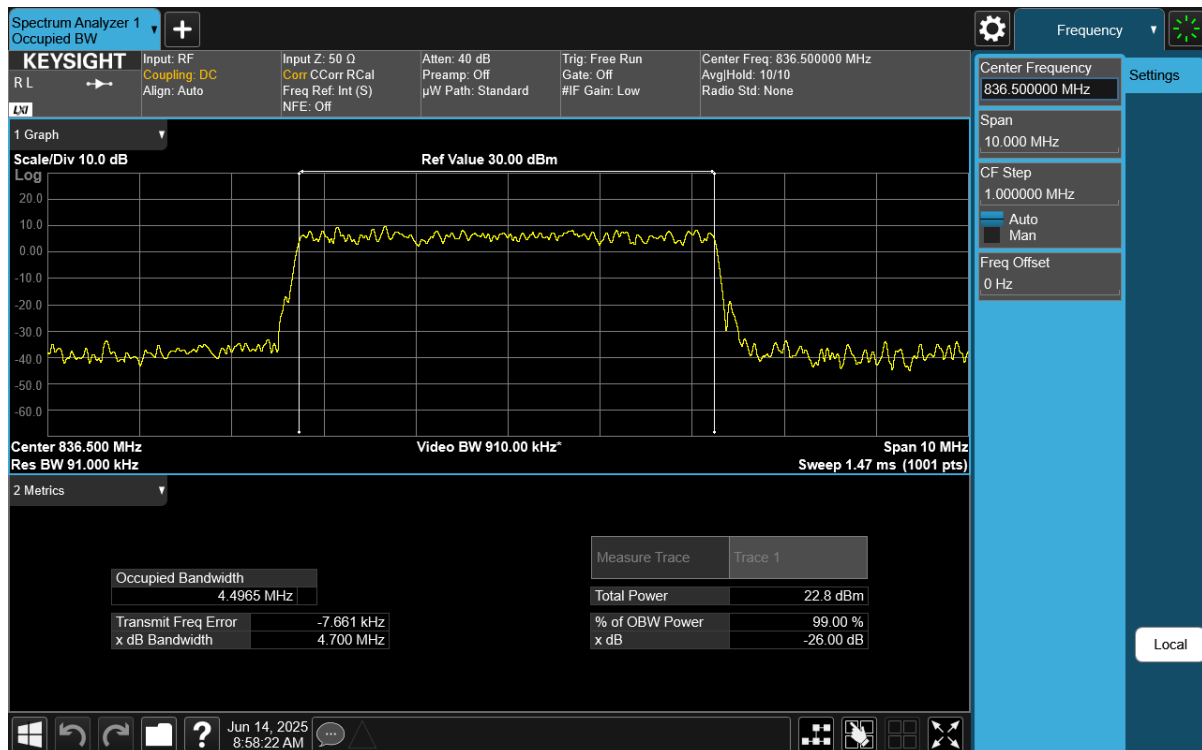
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Plot 7-11. Occupied Bandwidth Plot (NR Band n26/n5 - 5MHz DFT-s-OFDM 16-QAM - Full RB Configuration)

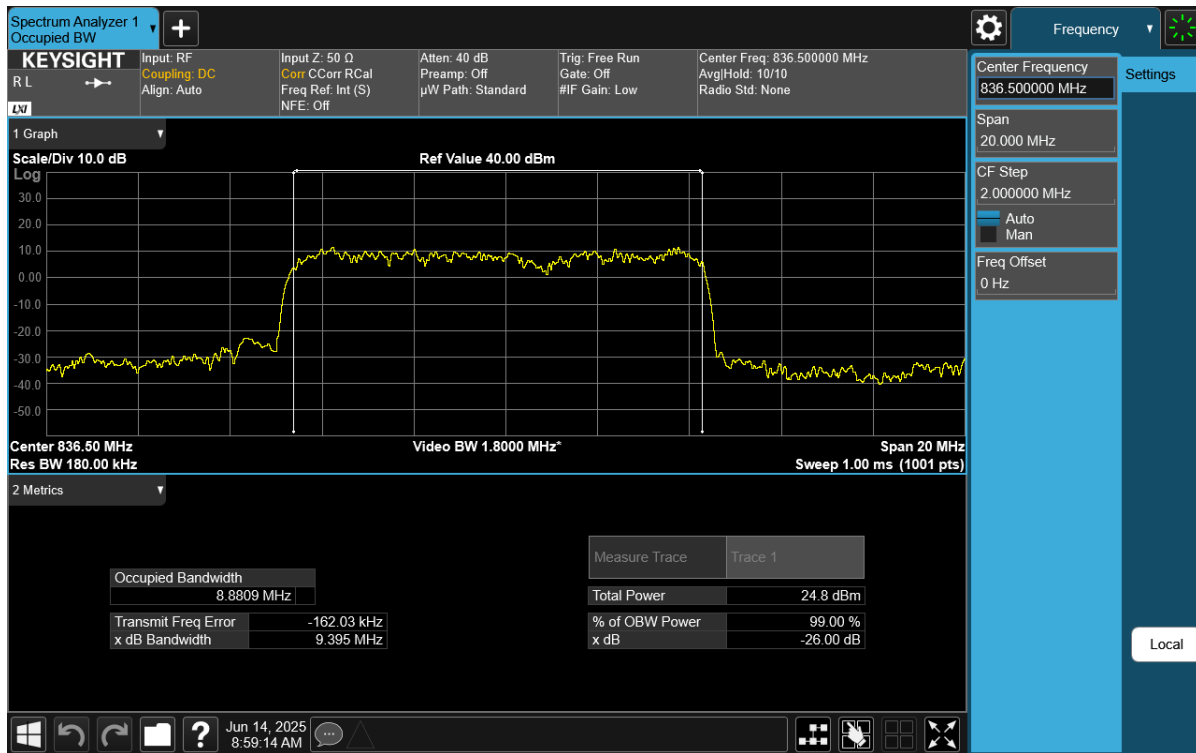


Plot 7-12. Occupied Bandwidth Plot (NR Band n26/n5 - 5MHz DFT-s-OFDM 64-QAM - Full RB Configuration)

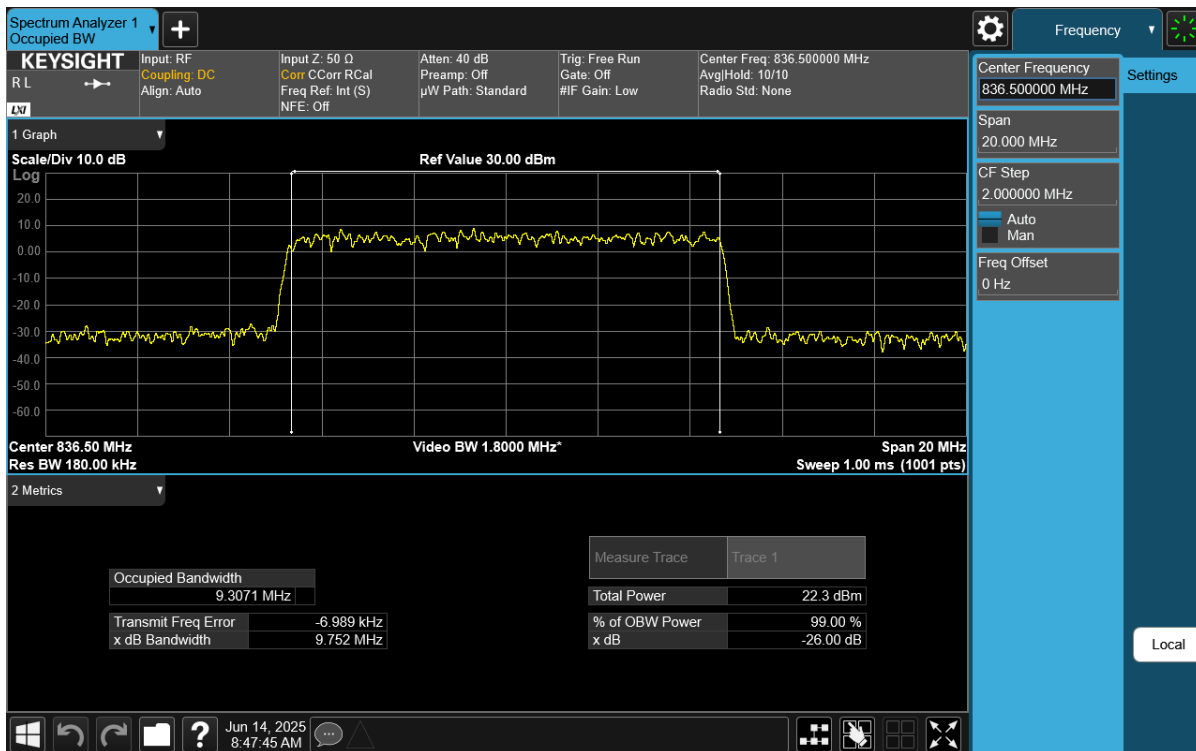
FCC ID: BCG-A3326	 PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-13. Occupied Bandwidth Plot (NR Band n26/n5 - 10MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB Configuration)

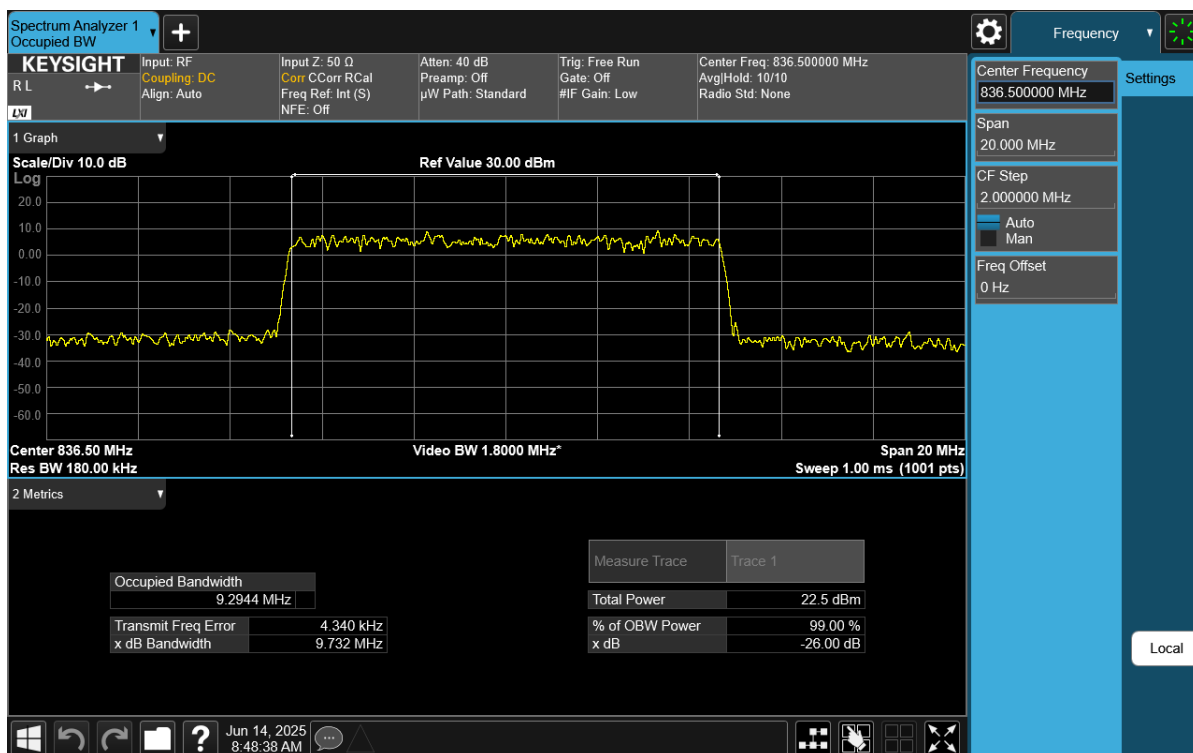


Plot 7-14. Occupied Bandwidth Plot (NR Band n26/n5 - 10MHz CP-OFDM QPSK - Full RB Configuration)

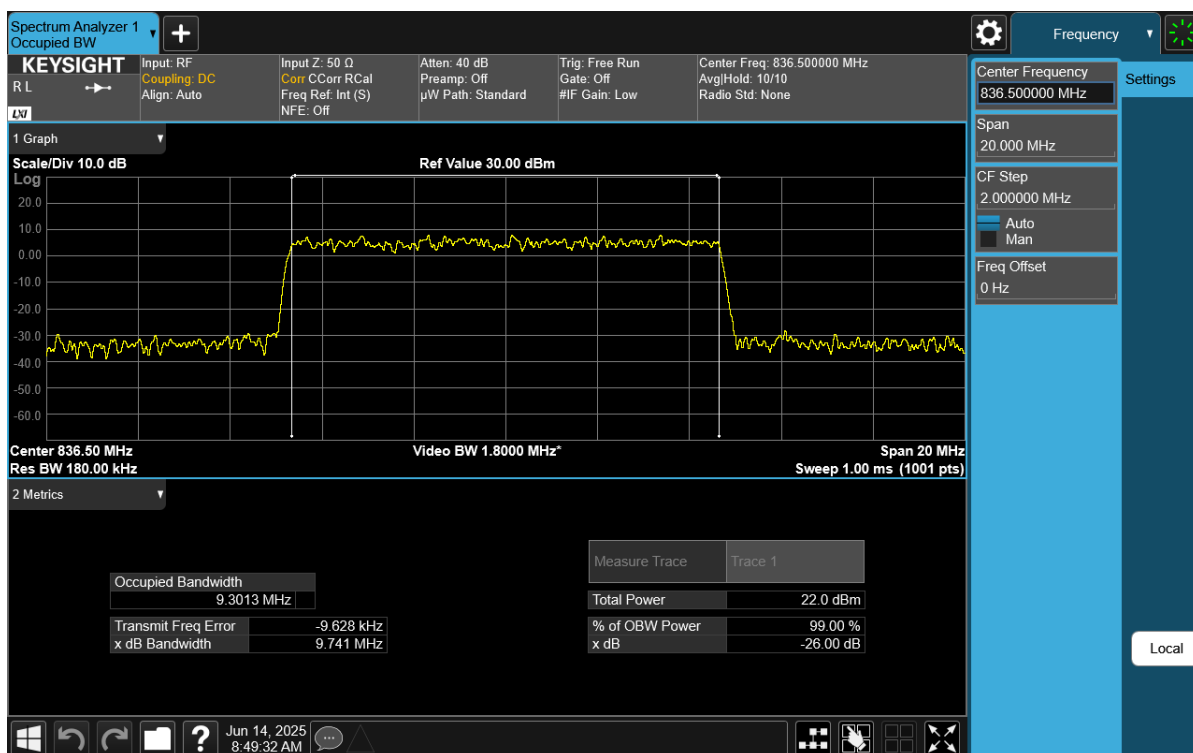
FCC ID: BCG-A3326	 PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-15. Occupied Bandwidth Plot (NR Band n26/n5 - 10MHz CP-OFDM 16-QAM - Full RB Configuration)

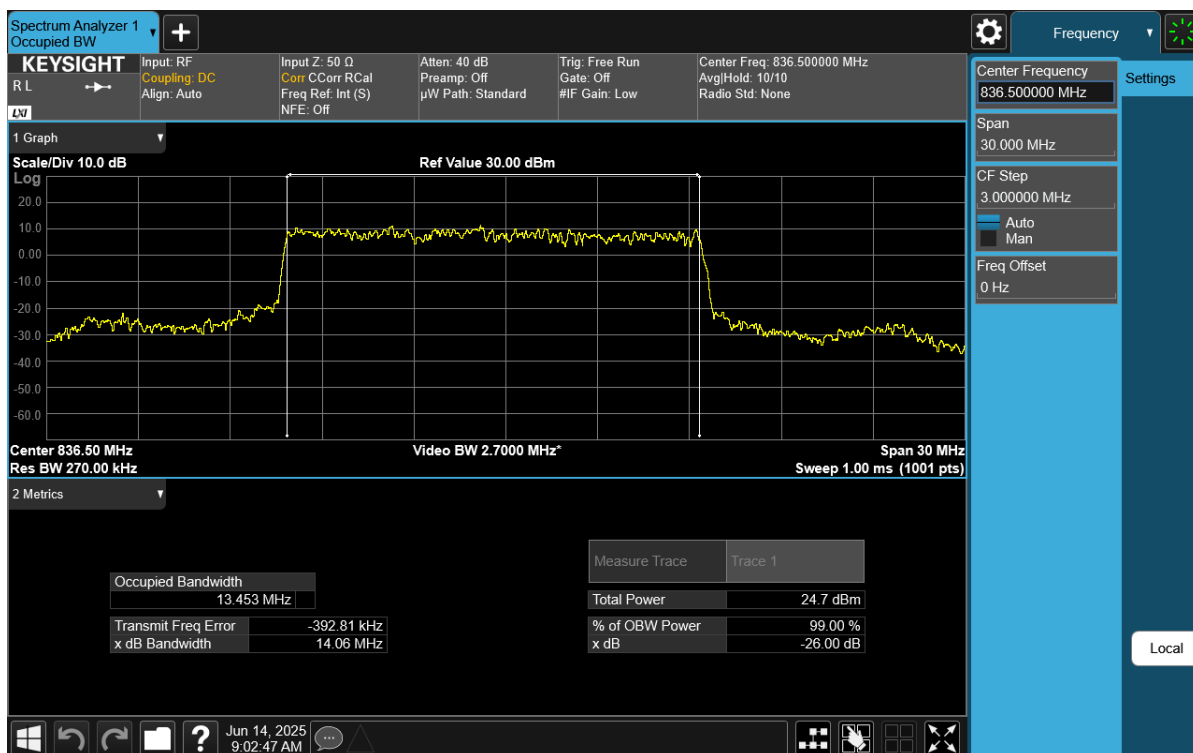


Plot 7-16. Occupied Bandwidth Plot (NR Band n26/n5 - 10MHz CP-OFDM 64-QAM - Full RB Configuration)

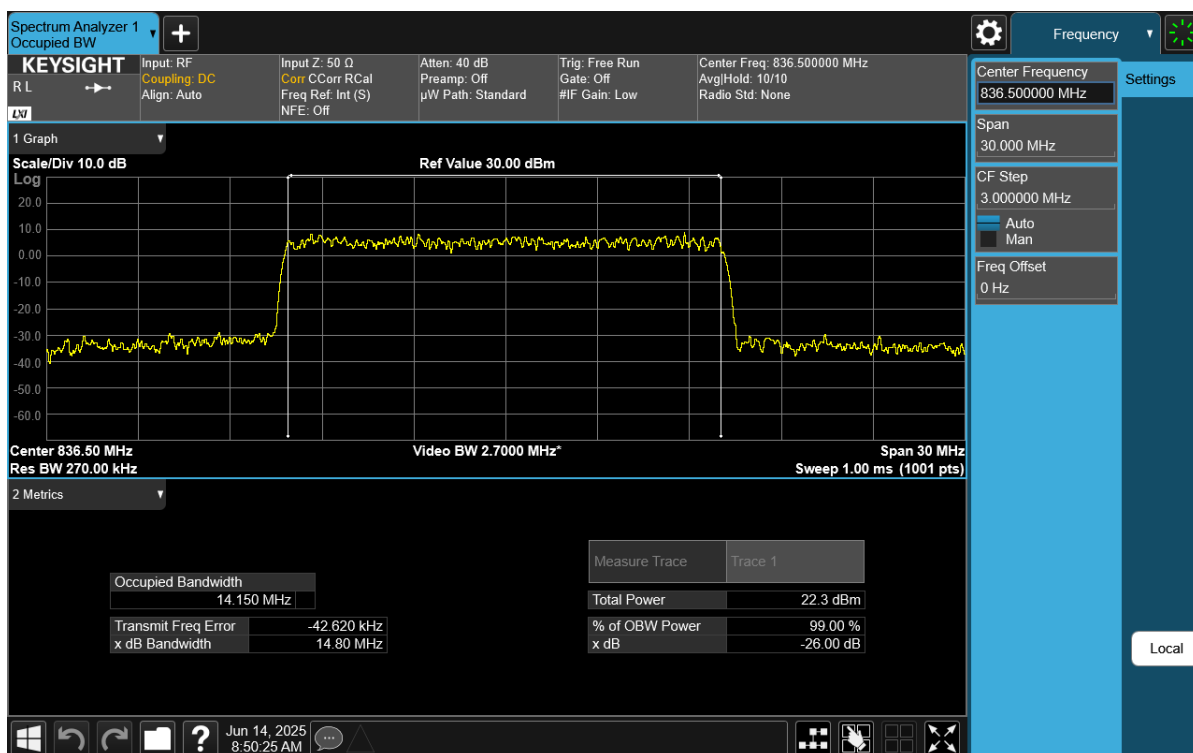
FCC ID: BCG-A3326	 PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-17. Occupied Bandwidth Plot (NR Band n26/n5 - 15MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB Configuration)

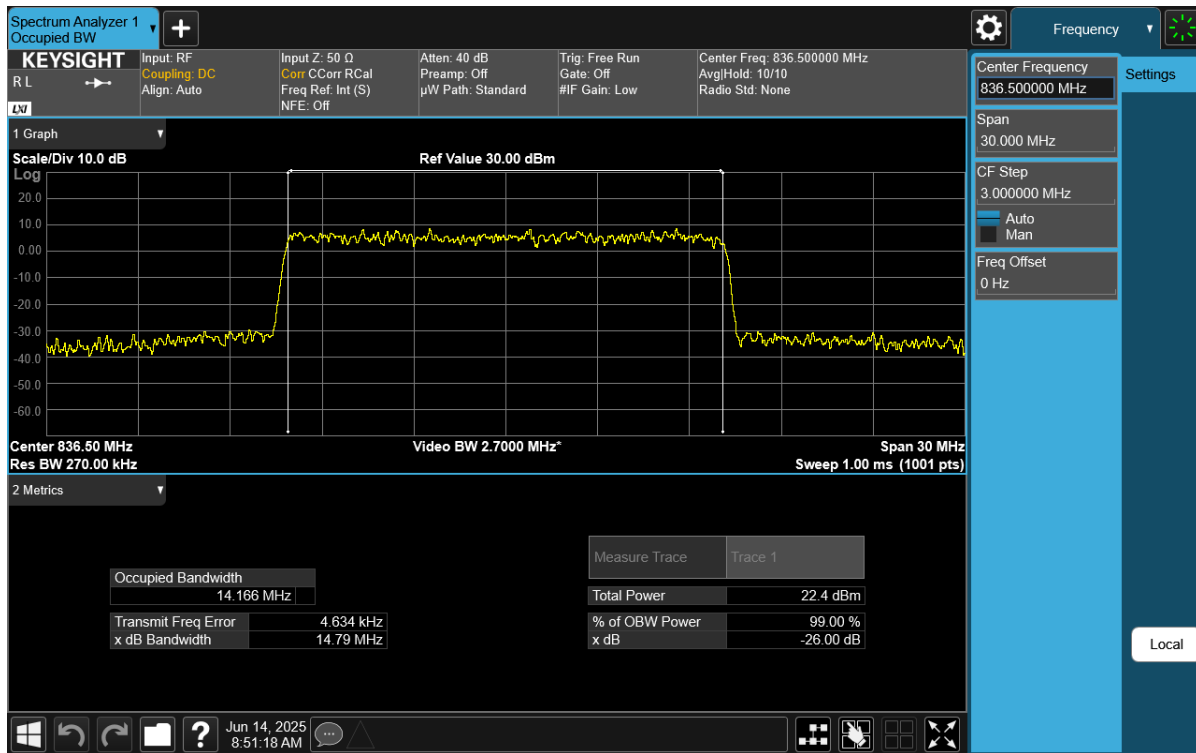


Plot 7-18. Occupied Bandwidth Plot (NR Band n26/n5 - 15MHz CP-OFDM QPSK - Full RB Configuration)

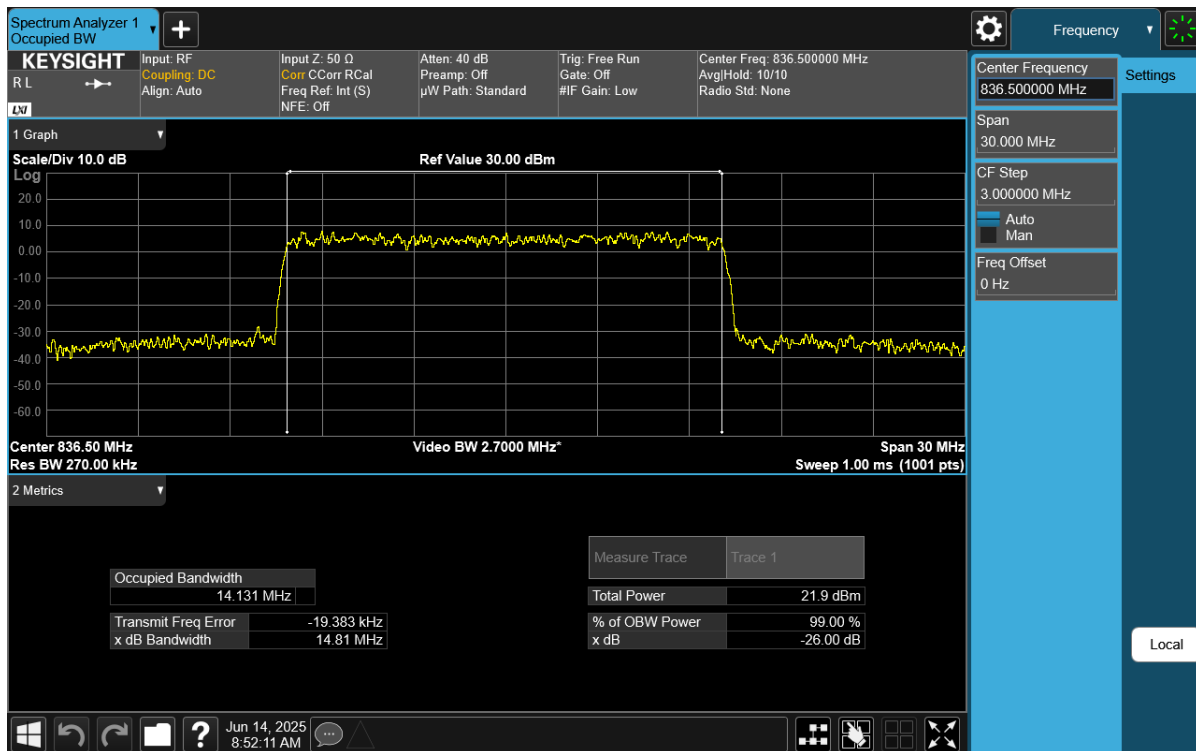
FCC ID: BCG-A3326	 PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-19. Occupied Bandwidth Plot (NR Band n26/n5 - 15MHz CP-OFDM 16-QAM - Full RB Configuration)



Plot 7-20. Occupied Bandwidth Plot (NR Band n26/n5 - 15MHz CP-OFDM 64-QAM - Full RB Configuration)

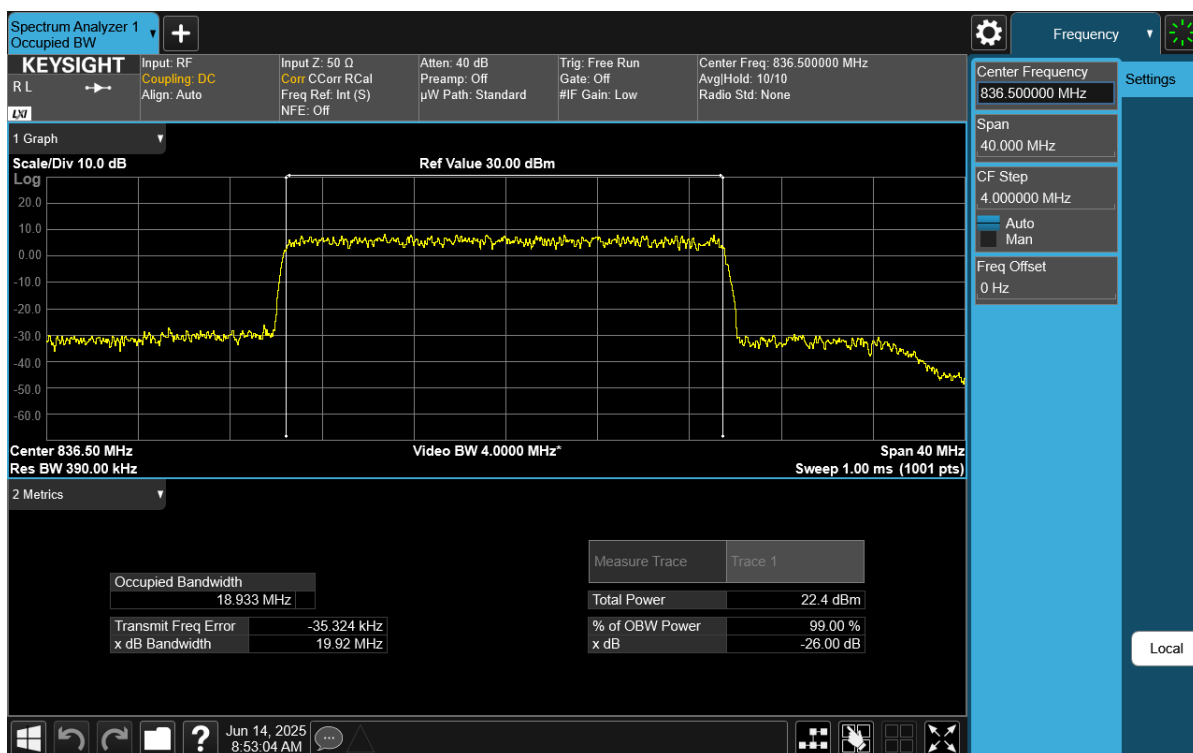
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Plot 7-21. Occupied Bandwidth Plot (NR Band n26/n5 - 20MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB Configuration)

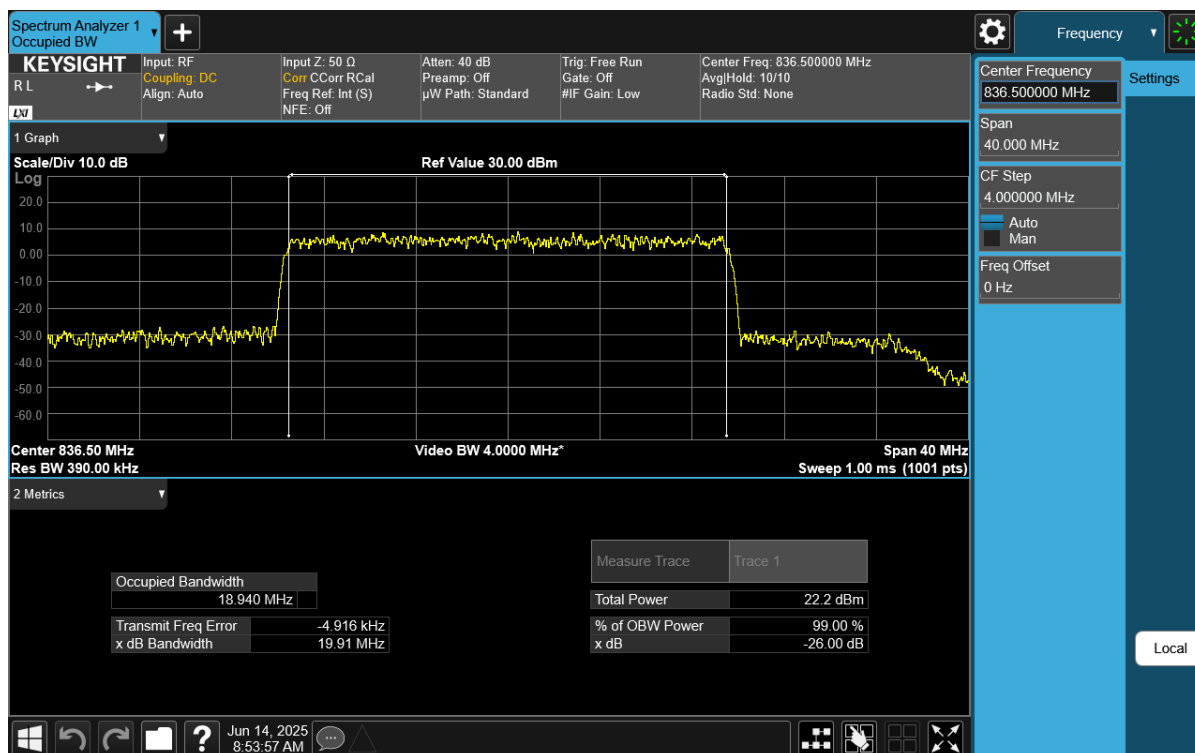


Plot 7-22. Occupied Bandwidth Plot (NR Band n26/n5 - 20MHz CP-OFDM QPSK - Full RB Configuration)

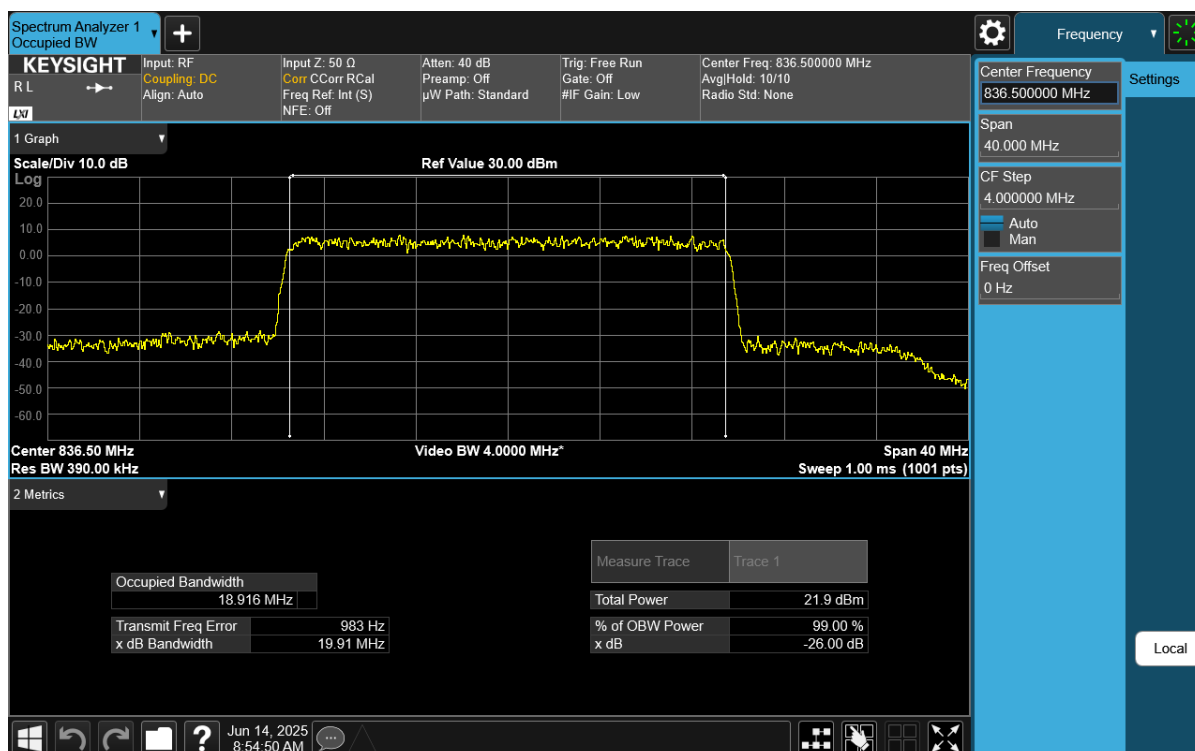
FCC ID: BCG-A3326	 PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-23. Occupied Bandwidth Plot (NR Band n26/n5 - 20MHz CP-OFDM 16-QAM - Full RB Configuration)



Plot 7-24. Occupied Bandwidth Plot (NR Band n26/n5 - 20MHz CP-OFDM 64-QAM - Full RB Configuration)

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7.3 Spurious and Harmonic Emissions at Antenna Terminal

§2.1051, 22.917(a)

Test Overview and Limit

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic. All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

The minimum permissible attenuation level of any spurious emission is $43 + 10 \log_{10}(P_{\text{Watts}})$, where P is the transmitter power in Watts.

Test Procedure Used

KDB 971168 D01 v03r01 – Section 6.0

Test Settings

1. Start frequency was set to 30MHz and stop frequency was set to 10GHz (separated into at least two plots per channel)
2. Detector = RMS
3. Trace mode = trace average for continuous emissions, max hold for pulse emissions
4. Sweep time = auto couple
5. The trace was allowed to stabilize
6. Please see test notes below for RBW and VBW settings

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

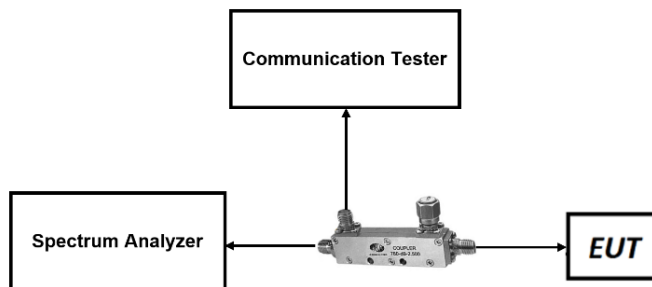


Figure 7-3. LTE Test Instrument & Measurement Setup

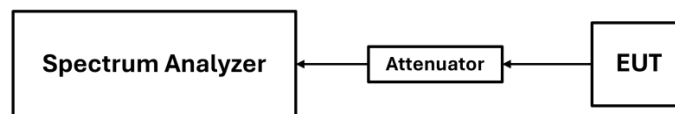




Figure 7-4. FR1 Test Instrument & Measurement Setup

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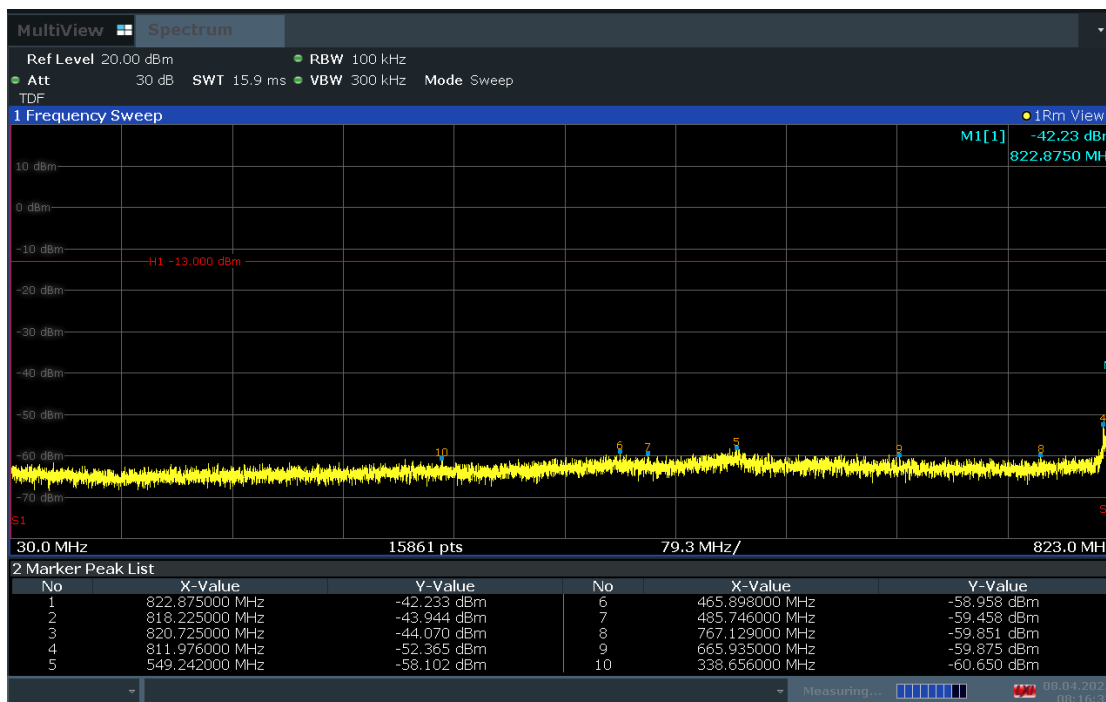
Test Notes

1. Per Part 22, compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth 100 kHz or greater for measurements below 1GHz. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emission are attenuated at least 26 dB below the transmitter power.
2. For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

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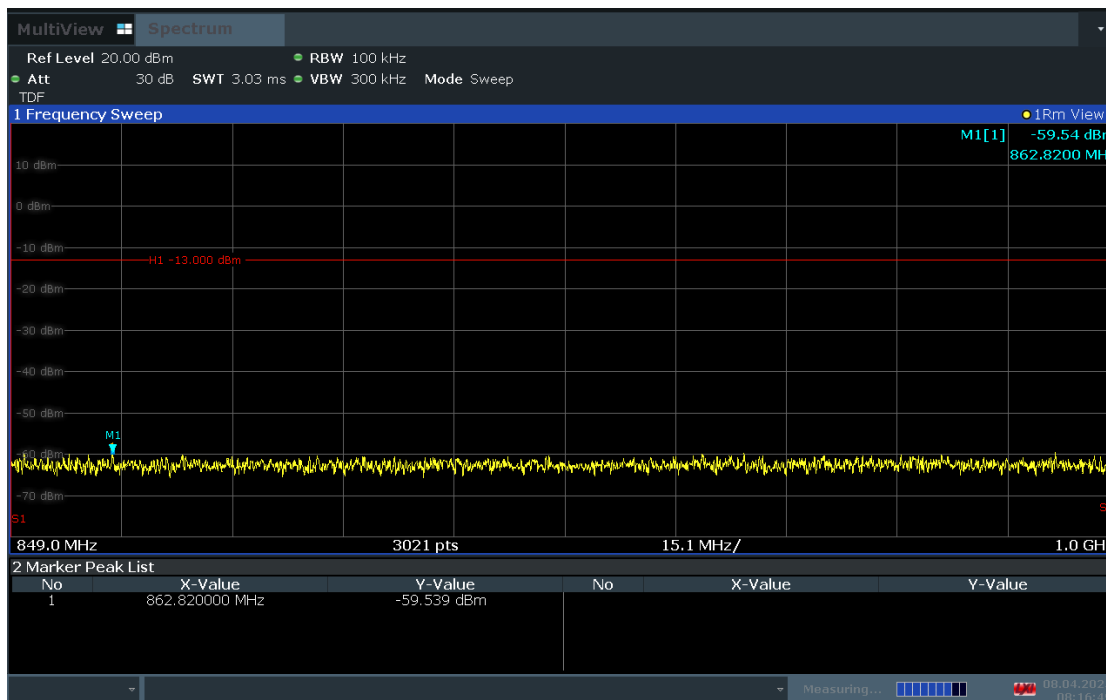
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LTE Band 26/5




08:16:33 08.04.2023

Plot 7-25. Conducted Spurious Plot (LTE Band 26/5 - 10MHz QPSK - RB Size 1, RB Offset 25 - Low Channel)



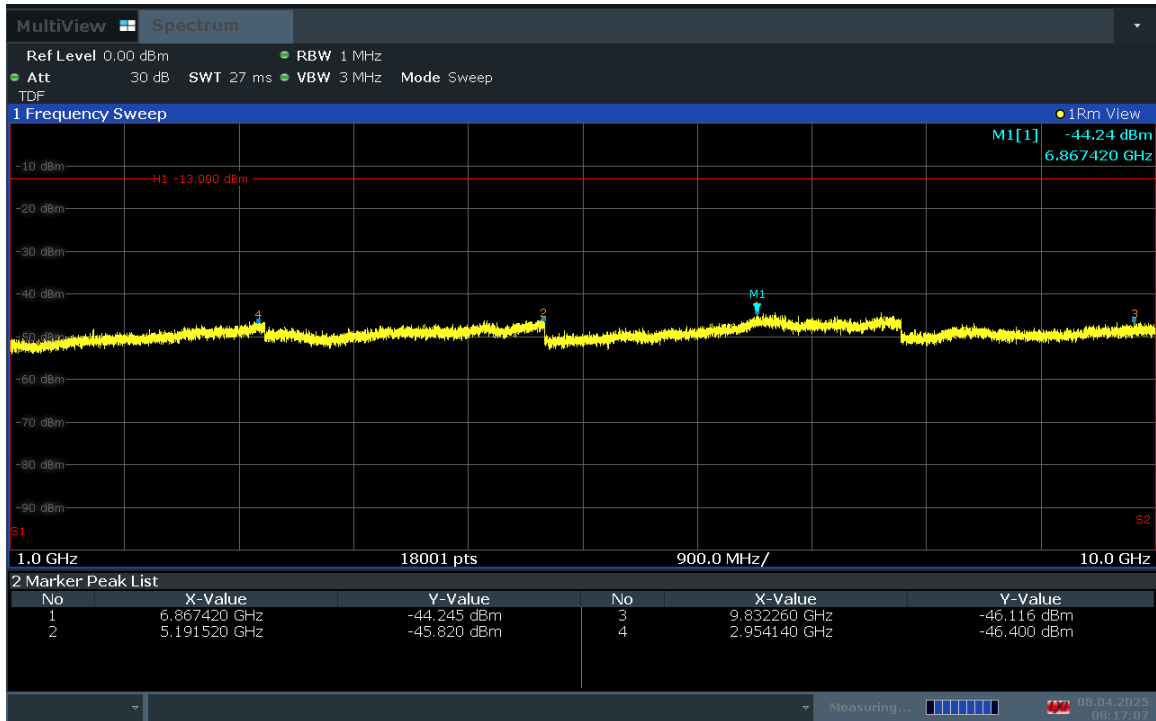
08:16:50 08.04.2023

Plot 7-26. Conducted Spurious Plot (LTE Band 26/5 - 10MHz QPSK - RB Size 1, RB Offset 25 - Low Channel)

FCC ID: BCG-A3326	 PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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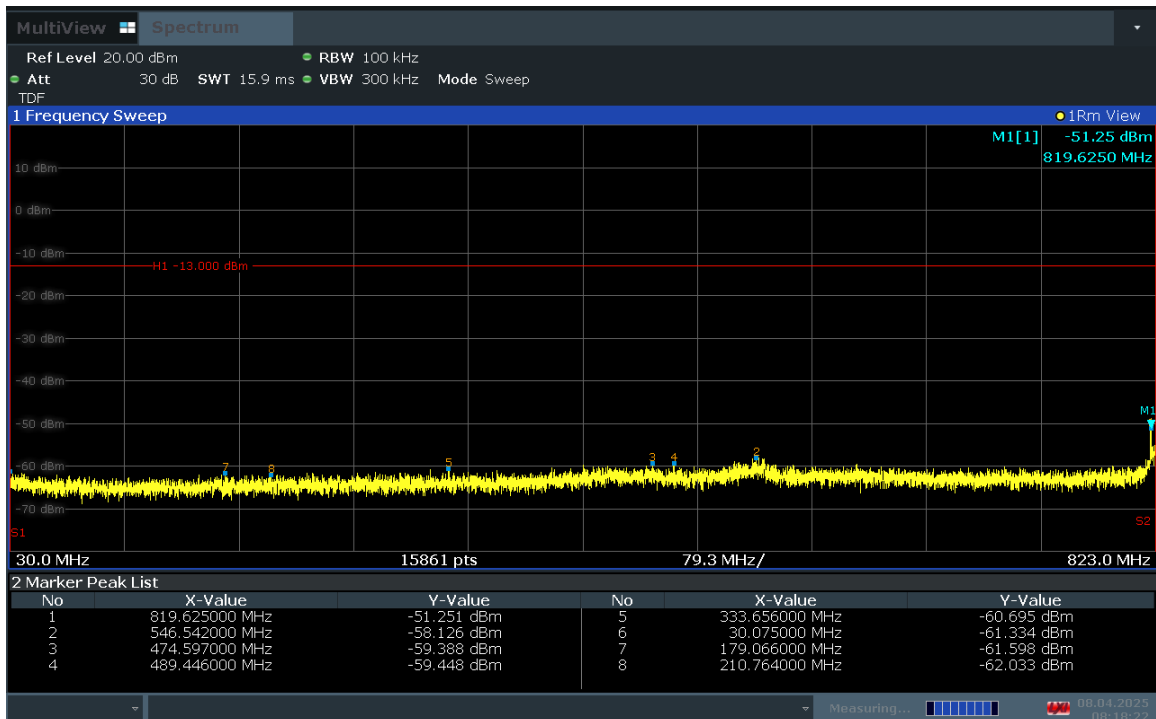
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08:17:07 08.04.2025

Plot 7-27. Conducted Spurious Plot (LTE Band 26/5 - 10MHz QPSK - RB Size 1, RB Offset 25 - Low Channel)



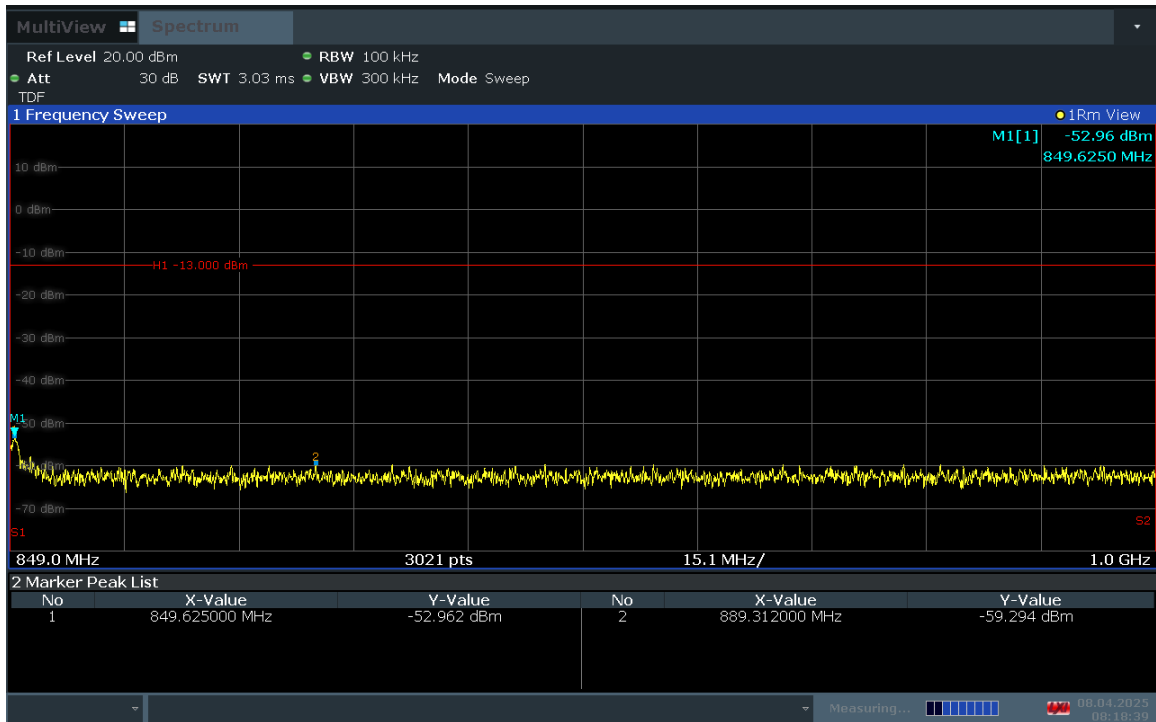
08:18:22 08.04.2025

Plot 7-28. Conducted Spurious Plot (LTE Band 26/5 - 10MHz QPSK - RB Size 1, RB Offset 25 - Mid Channel)

FCC ID: BCG-A3326	 PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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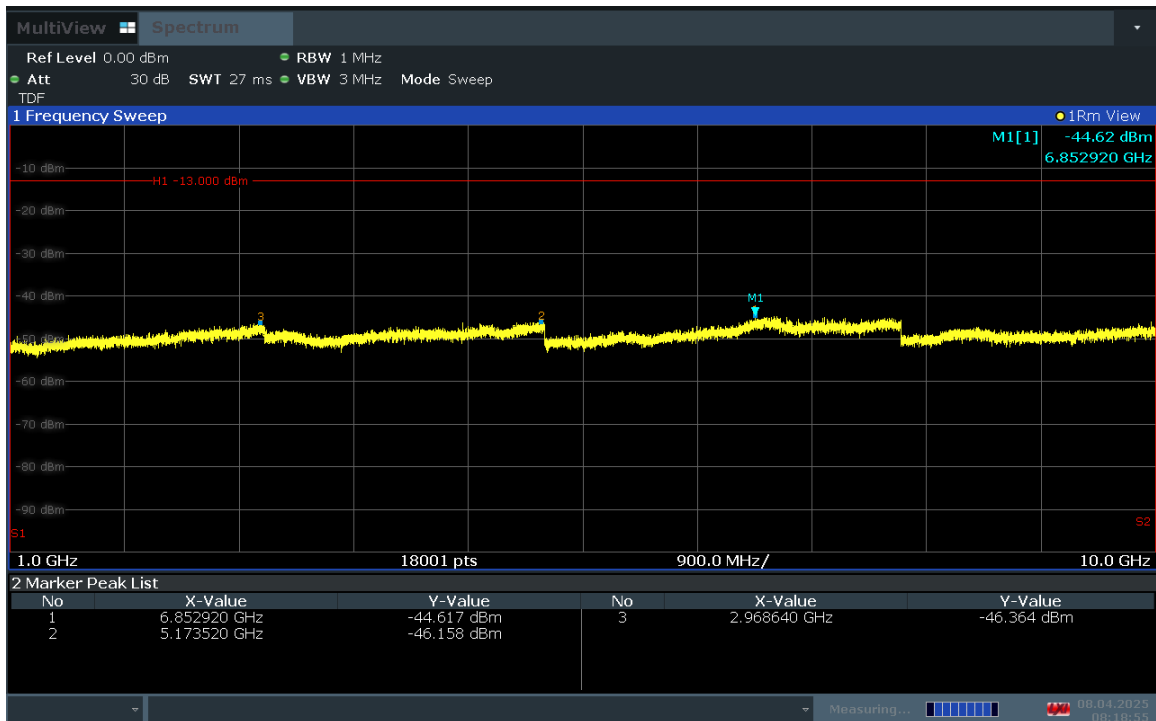
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08:18:39 08.04.2025

Plot 7-29. Conducted Spurious Plot (LTE Band 26/5 - 10MHz QPSK - RB Size 1, RB Offset 25 - Mid Channel)



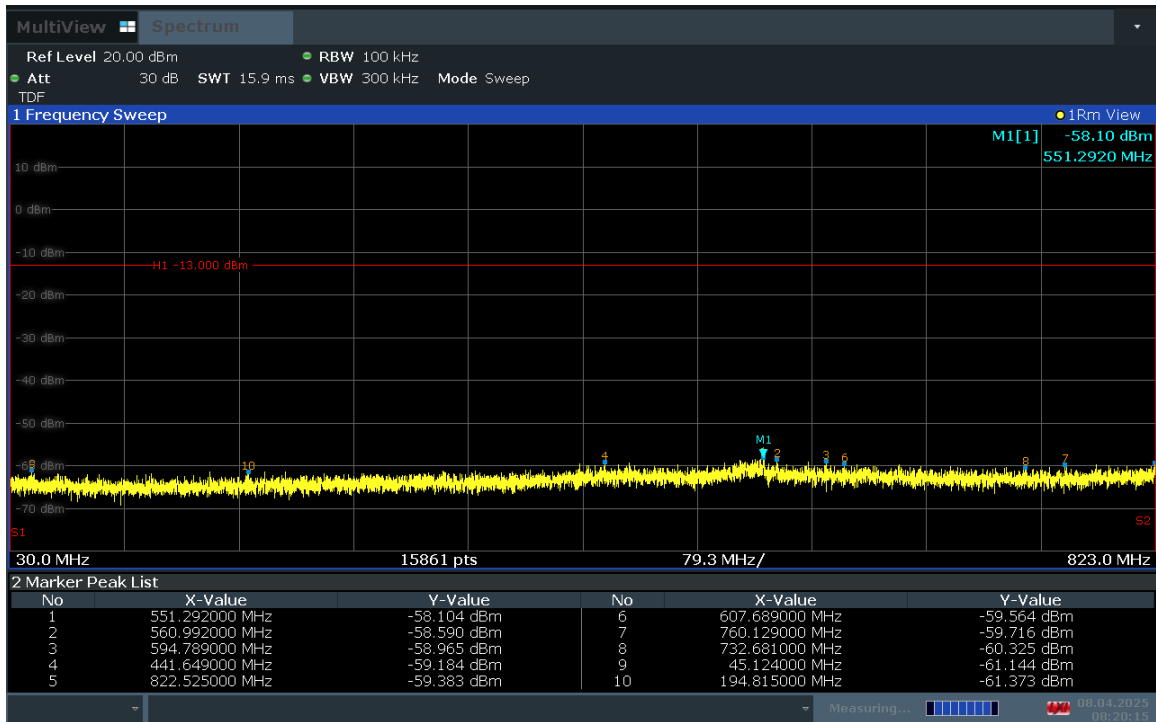
08:18:56 08.04.2025

Plot 7-30. Conducted Spurious Plot (LTE Band 26/5 - 10MHz QPSK - RB Size 1, RB Offset 25 - Mid Channel)

FCC ID: BCG-A3326	 PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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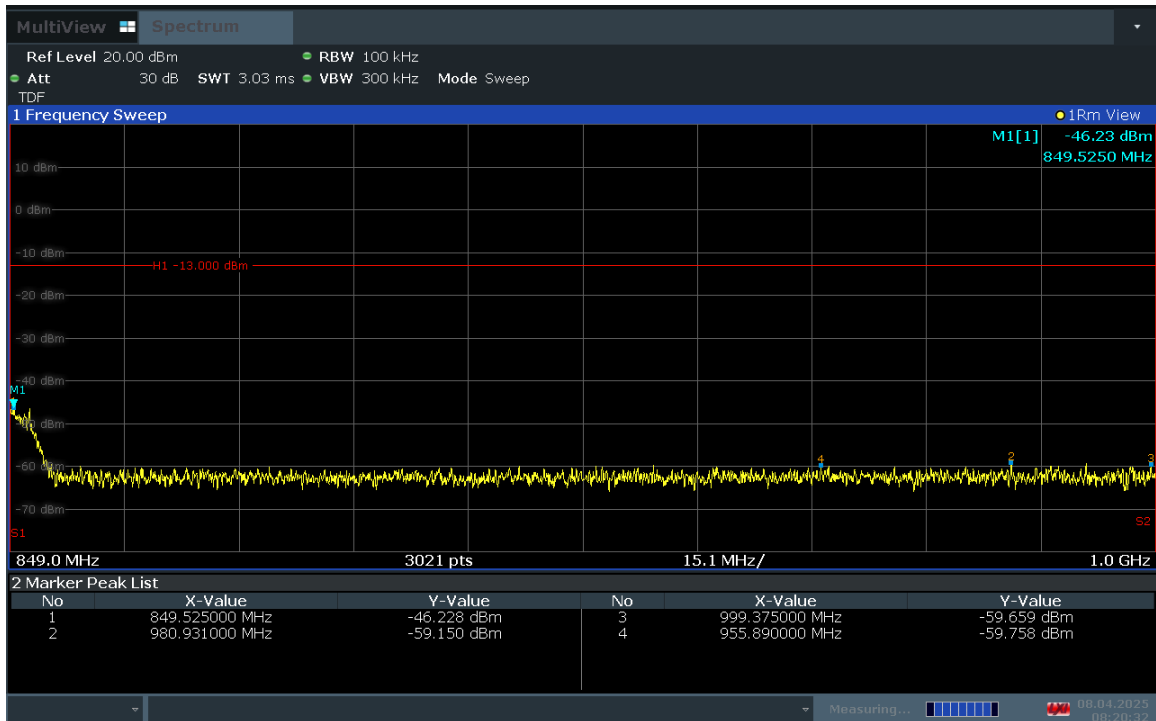
V2.2 08/24/2023

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08:20:16 08.04.2025

Plot 7-31. Conducted Spurious Plot (LTE Band 26/5 - 10MHz QPSK - RB Size 1, RB Offset 25 - High Channel)



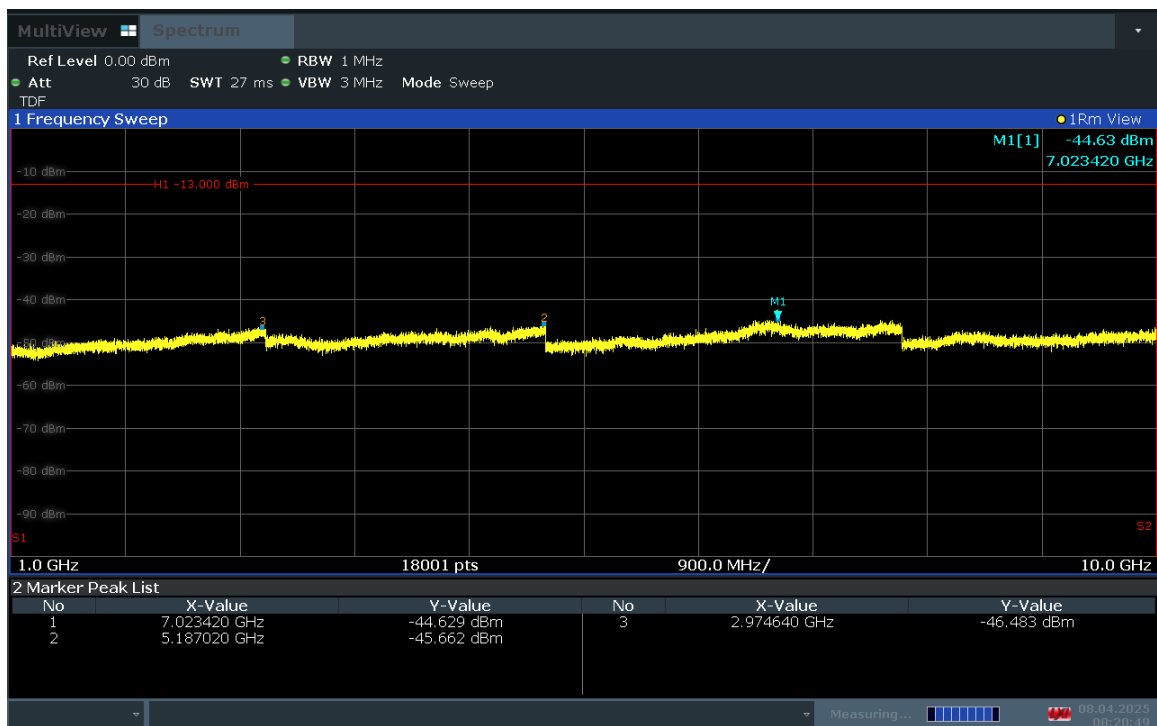
08:20:33 08.04.2025

Plot 7-32. Conducted Spurious Plot (LTE Band 26/5 - 10MHz QPSK - RB Size 1, RB Offset 25 - High Channel)

FCC ID: BCG-A3326	 PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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08:20:50 08.04.2025

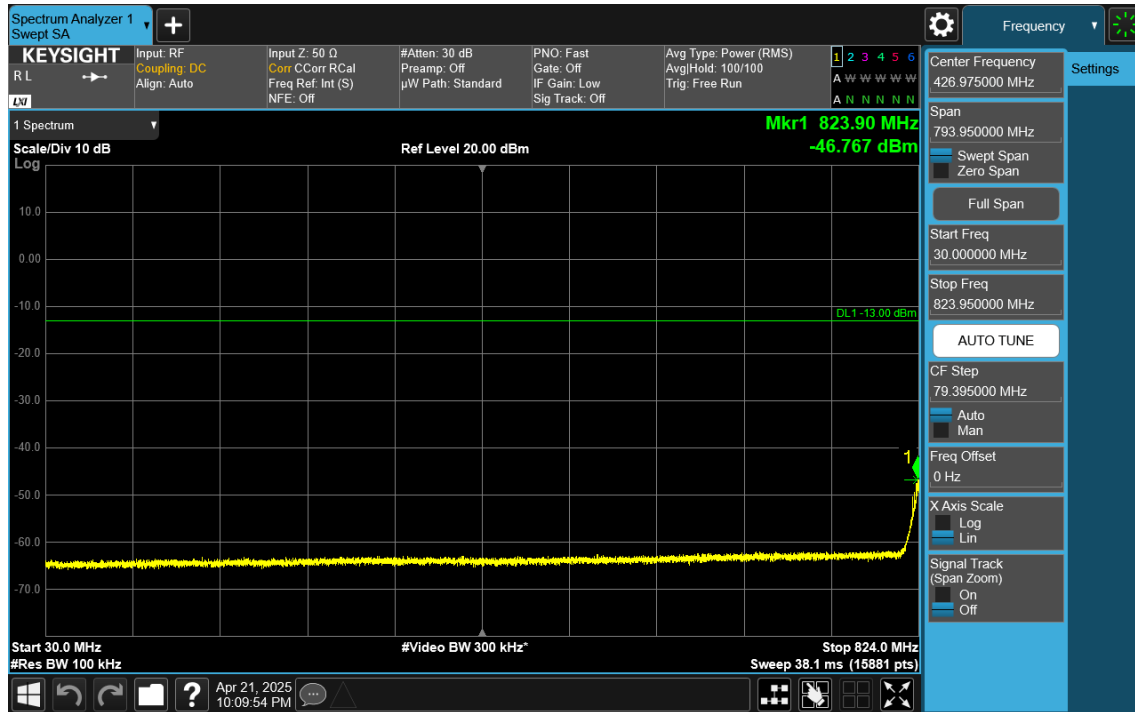
Plot 7-33. Conducted Spurious Plot (LTE Band 26/5 - 10MHz QPSK - RB Size 1, RB Offset 25 - High Channel)

FCC ID: BCG-A3326	 PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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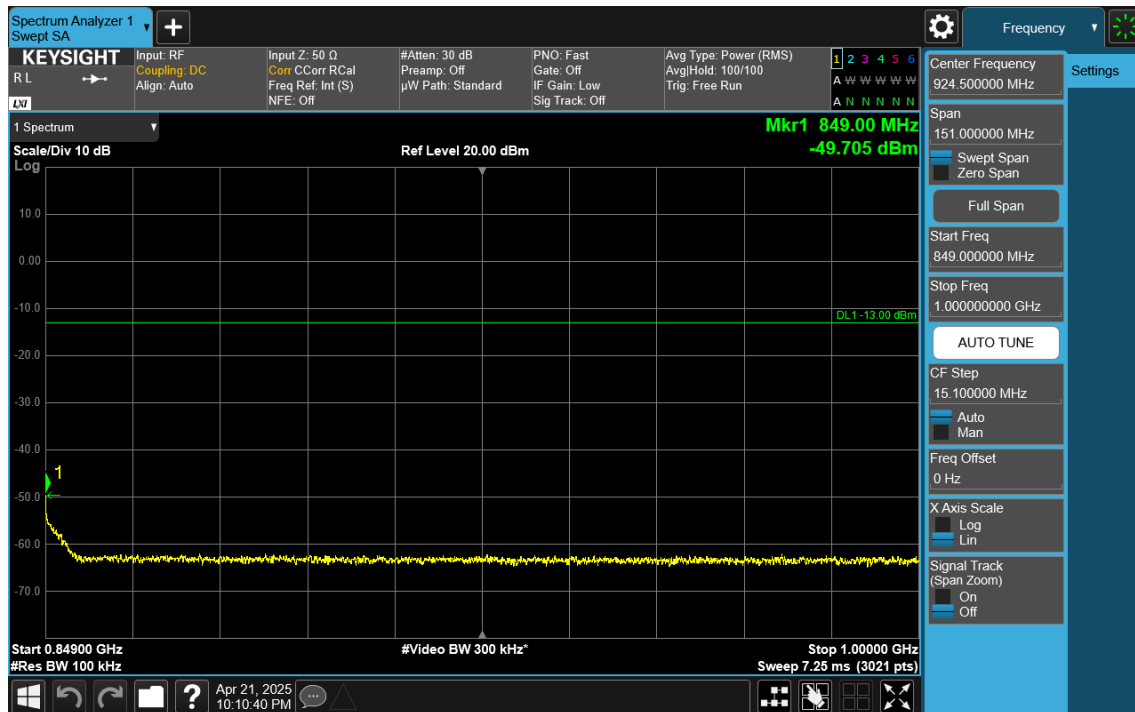
V2.2 08/24/2023

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NR Band n26/n5



Plot 7-34. Conducted Spurious Plot (NR Band n26/n5 - 20MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 50 - Low Channel)

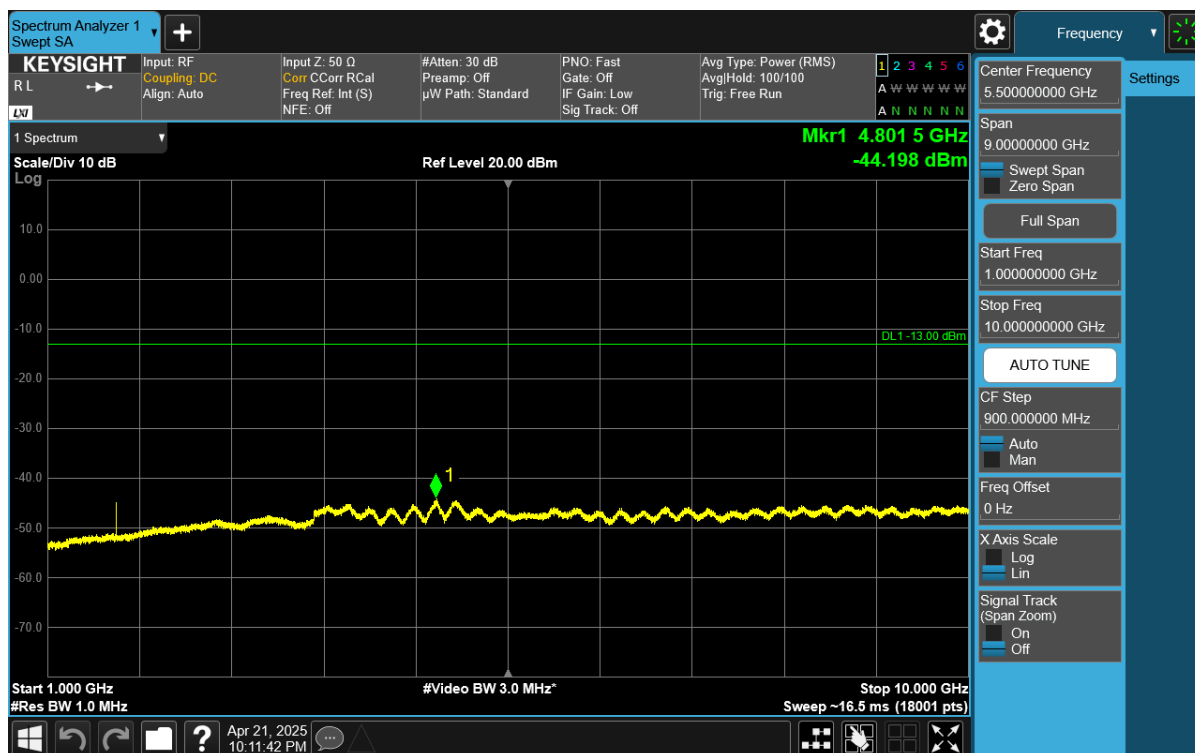


Plot 7-35. Conducted Spurious Plot (NR Band n26/n5 - 20MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 50 - Low Channel)

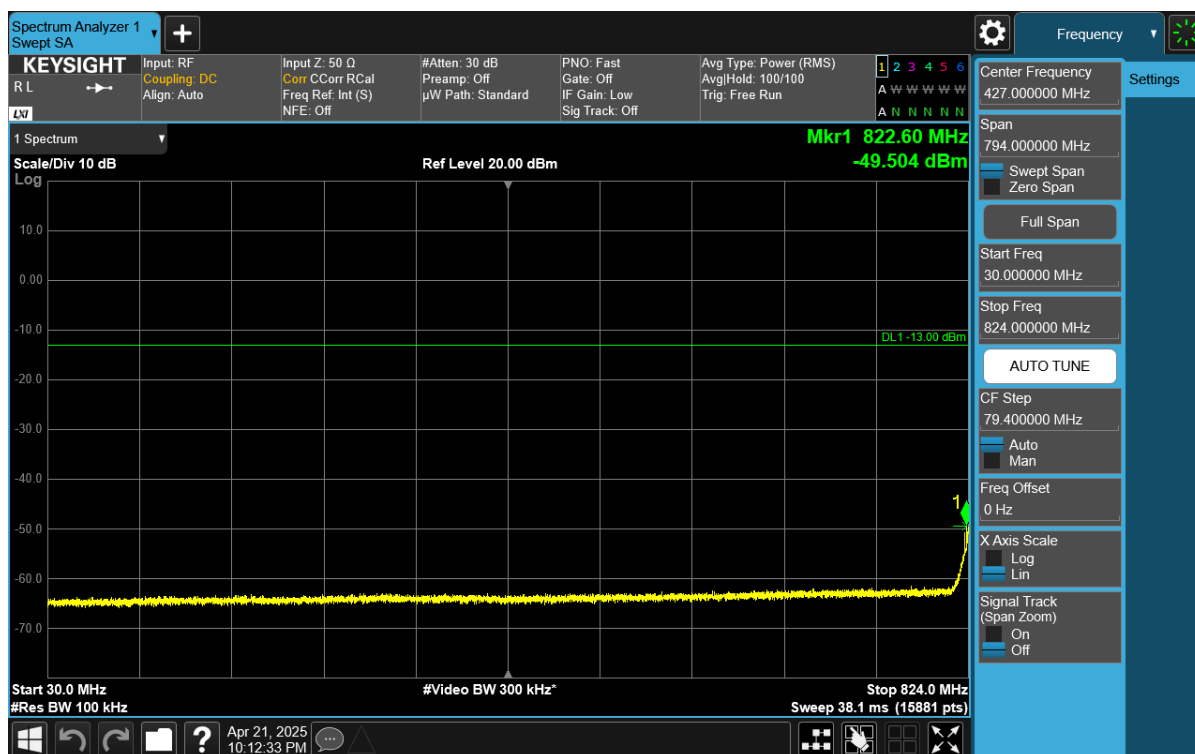
FCC ID: BCG-A3326	 PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270036-01.BCG	Test Dates: 04/04/2025 - 7/17/2025	EUT Type: Watch
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Plot 7-36. Conducted Spurious Plot (NR Band n26/n5 - 20MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 50 - Low Channel)

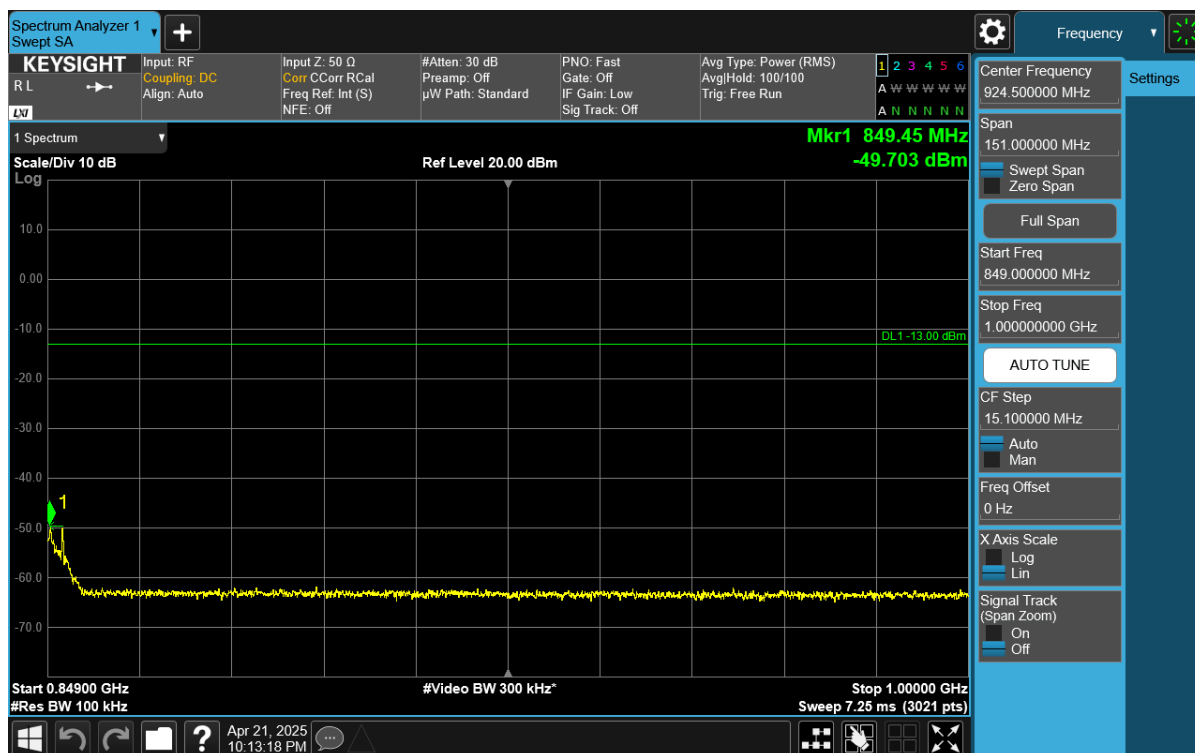


Plot 7-37. Conducted Spurious Plot (NR Band n26/n5 - 20MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 50 - Mid Channel)

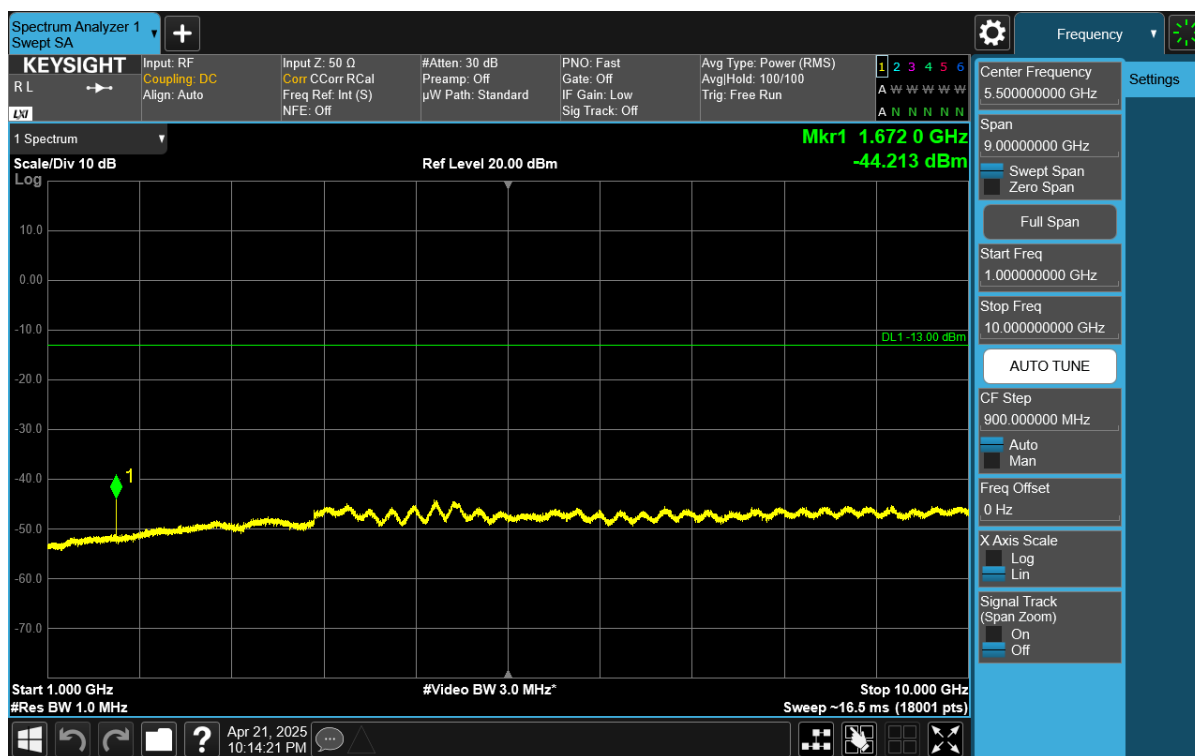
FCC ID: BCG-A3326	 PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-38. Conducted Spurious Plot (NR Band n26/n5 - 20MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 50 - Mid Channel)

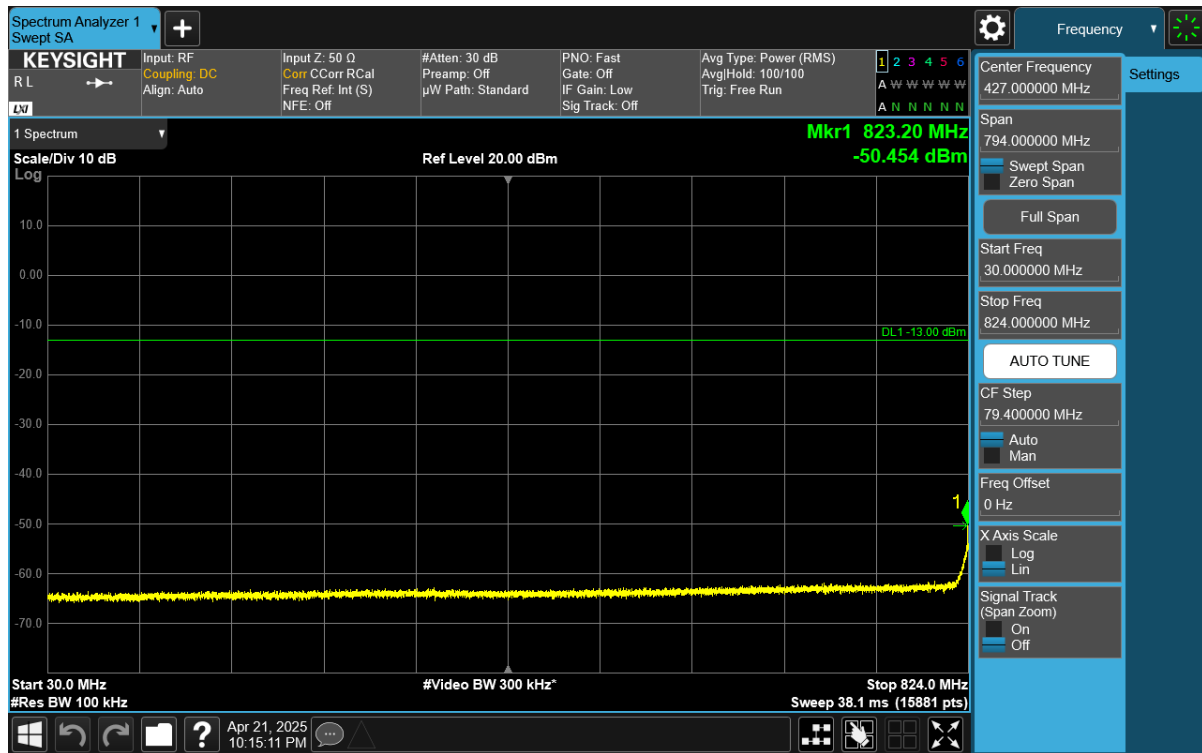


Plot 7-39. Conducted Spurious Plot (NR Band n26/n5 - 20MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 50 - Mid Channel)

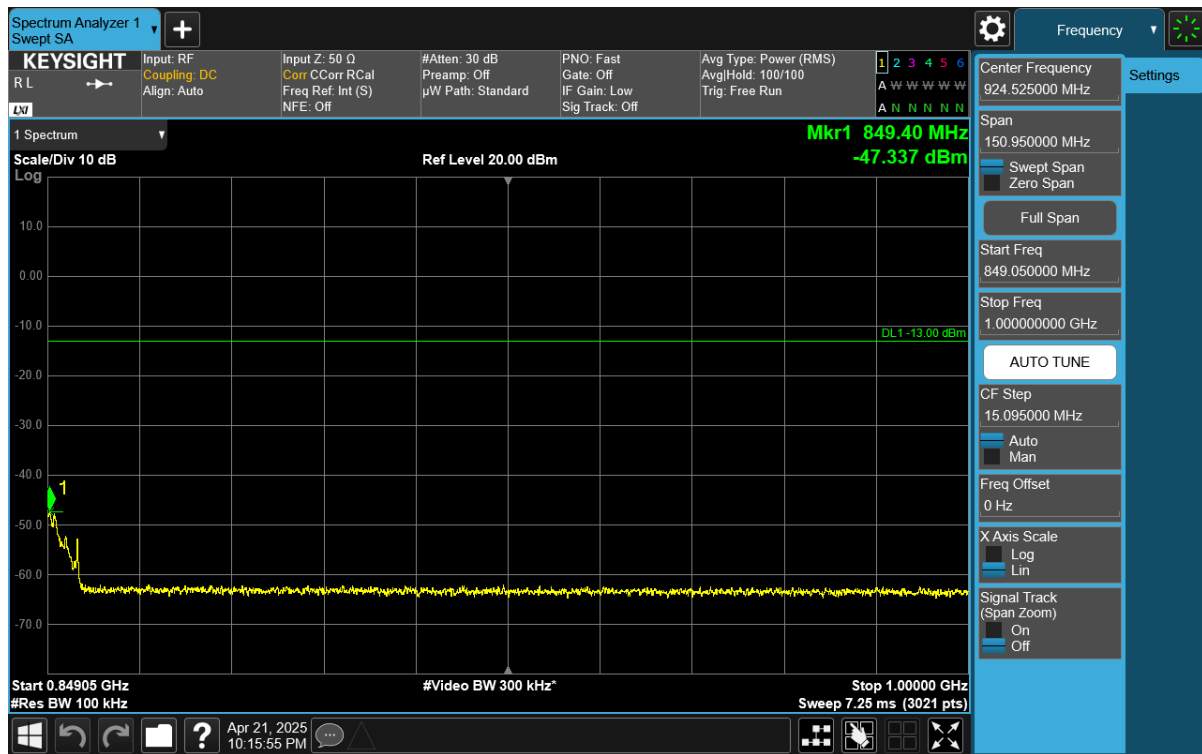
FCC ID: BCG-A3326	 PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270036-01.BCG	Test Dates: 04/04/2025 - 7/17/2025	EUT Type: Watch
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Plot 7-40. Conducted Spurious Plot (NR Band n26/n5 - 20MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 50 - High Channel)

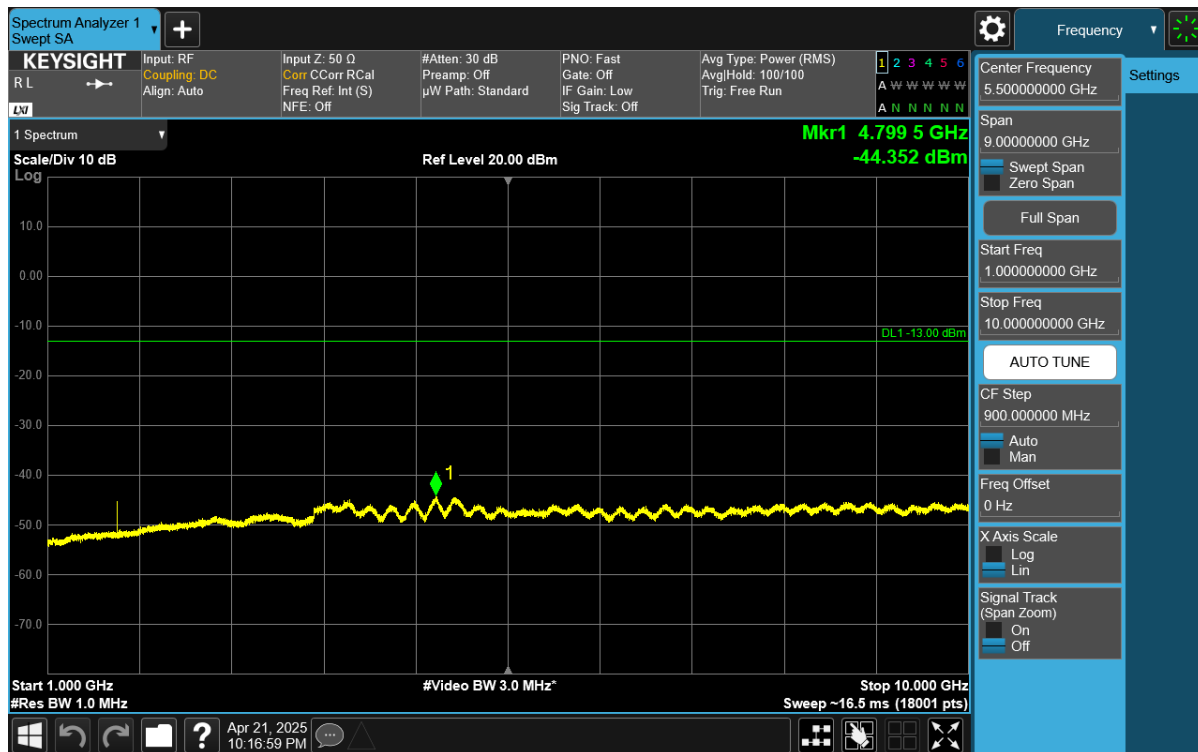


Plot 7-41. Conducted Spurious Plot (NR Band n26/n5 - 20MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 50 - High Channel)

FCC ID: BCG-A3326	 PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-42. Conducted Spurious Plot (NR Band n26/n5 - 20MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 50 - High Channel)

FCC ID: BCG-A3326	element	PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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7.4 Band Edge Emissions at Antenna Terminal

§2.1051, 22.917(a)

Test Overview and limit

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

The minimum permissible attenuation level of any spurious emission is $43 + 10 \log_{10}(P_{\text{Watts}})$, where P is the transmitter power in Watts.

Test Procedure Used

KDB 971168 D01 v03r01 – Section 6.0

Test Settings

1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. $\text{RBW} \geq 1\%$ of the emission bandwidth
4. $\text{VBW} \geq 3 \times \text{RBW}$
5. Detector = RMS
6. Number of sweep points $\geq 2 \times \text{Span}/\text{RBW}$
7. Trace mode = trace average for continuous emissions, max hold for pulse emissions
8. Sweep time = auto couple
9. The trace was allowed to stabilize

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

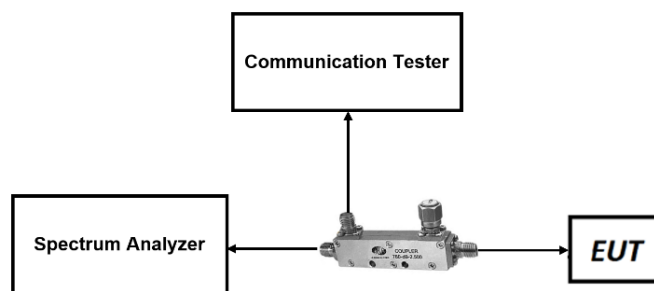


Figure 7-5. LTE Test Instrument & Measurement Setup

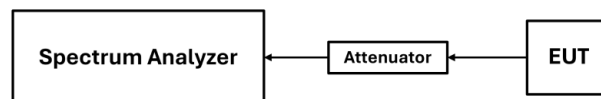




Figure 7-6. FR1 Test Instrument & Measurement Setup

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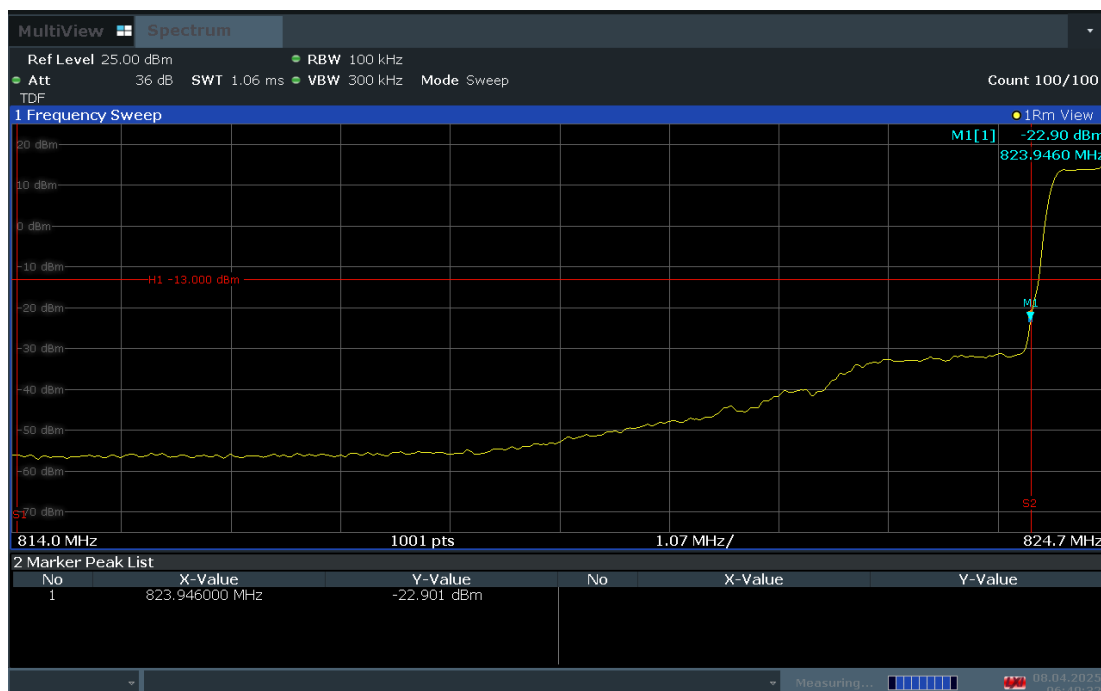
Test Notes

1. Per 22.917(b), in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to demonstrate compliance with the out-of-band emissions limit. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emission are attenuated at least 26 dB below the transmitter power.
2. For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

FCC ID: BCG-A3326	 PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270036-01.BCG	Test Dates: 04/04/2025 - 7/17/2025	EUT Type: Watch
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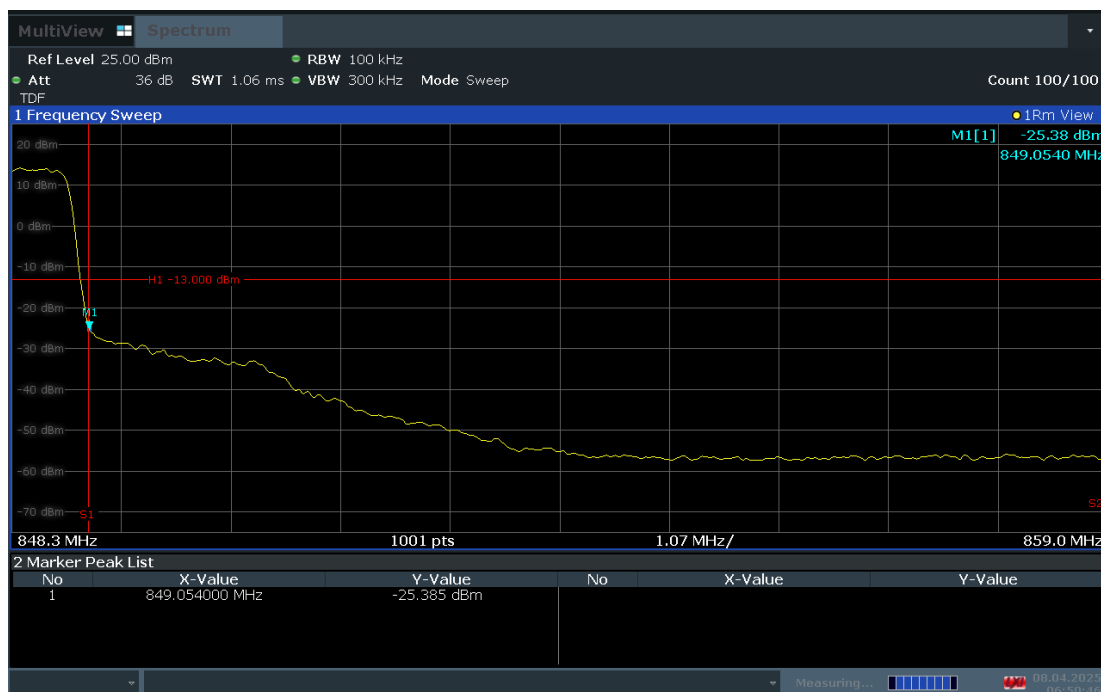
V2.2 08/24/2023

LTE Band 26




06:49:32 08.04.2025

Plot 7-43. Lower BE Plot (LTE Band 26 – 1.4MHz QPSK – Full RB Configuration)



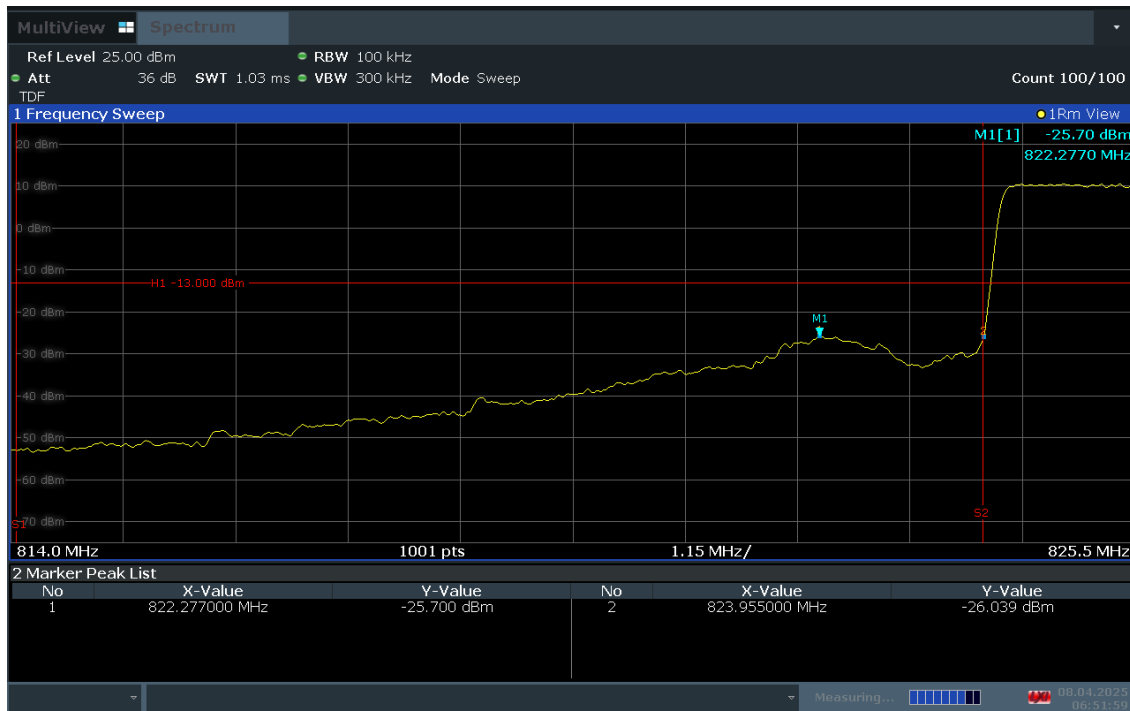
06:50:46 08.04.2025

Plot 7-44. Upper BE Plot (LTE Band 26 – 1.4MHz QPSK – Full RB Configuration)

FCC ID: BCG-A3326	 PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270036-01.BCG	Test Dates: 04/04/2025 - 7/17/2025	EUT Type: Watch
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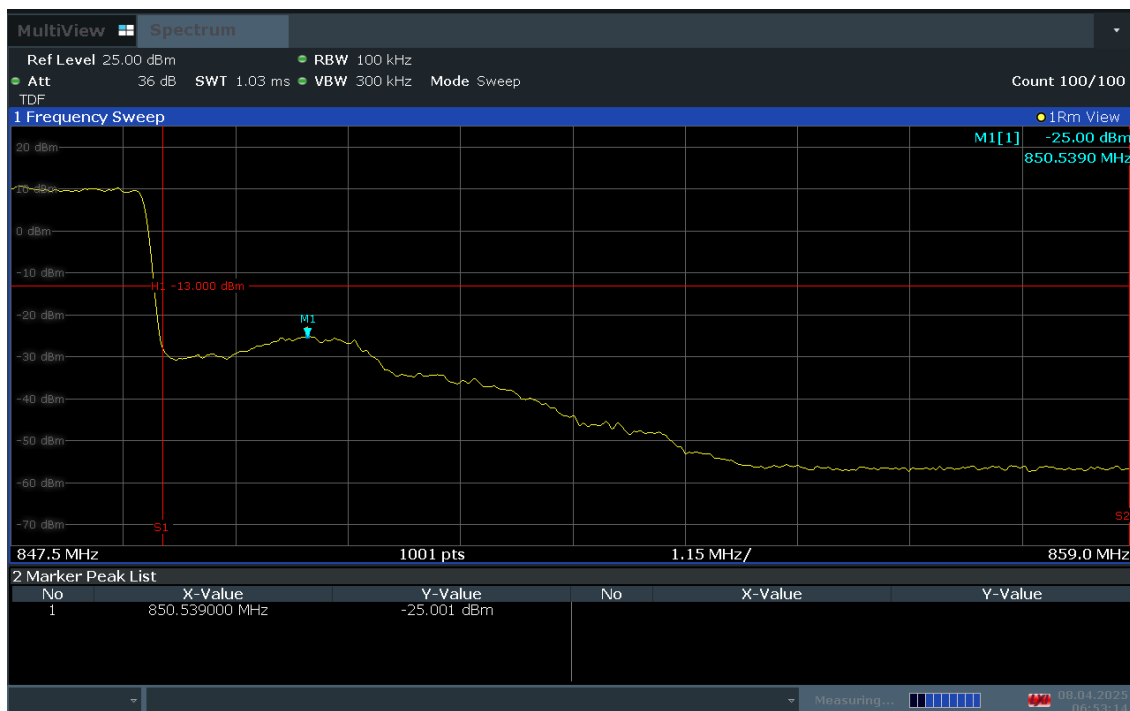
V2.2 08/24/2023

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06:52:00 08.04.2025

Plot 7-45. Lower BE Plot (LTE Band 26 - 3MHz QPSK – Full RB Configuration)



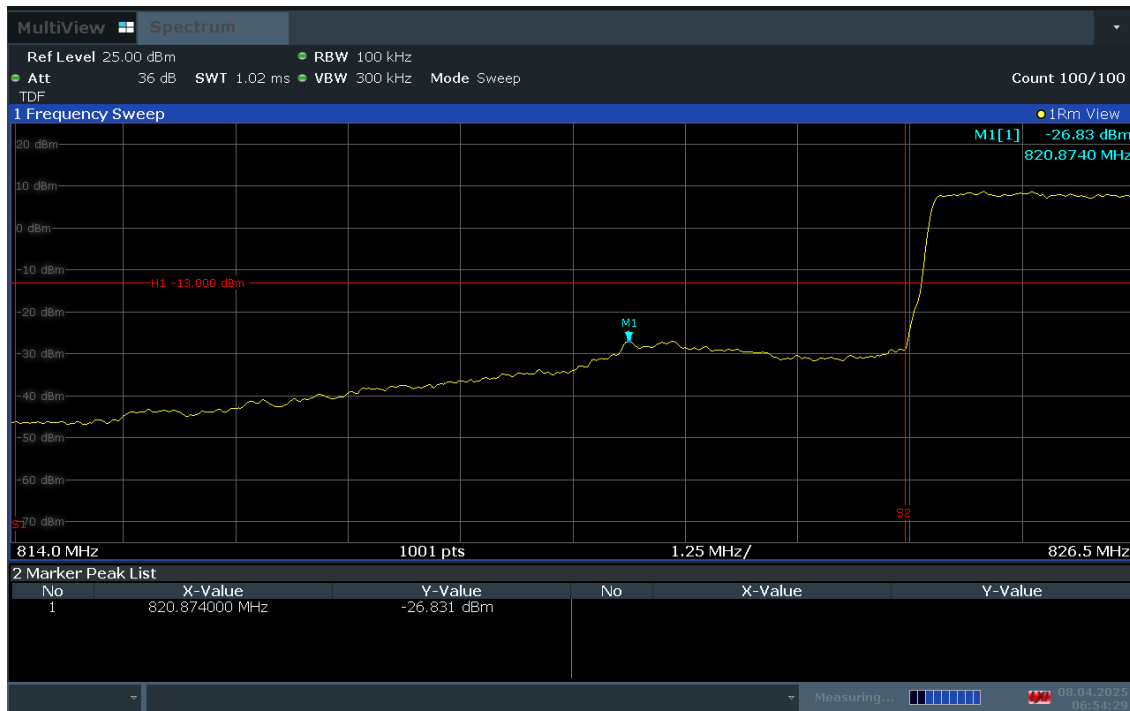
06:53:15 08.04.2025

Plot 7-46. Upper BE Plot (LTE Band 26 - 3MHz QPSK – Full RB Configuration)

FCC ID: BCG-A3326	 PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270036-01.BCG	Test Dates: 04/04/2025 - 7/17/2025	EUT Type: Watch	Page 43 of 75

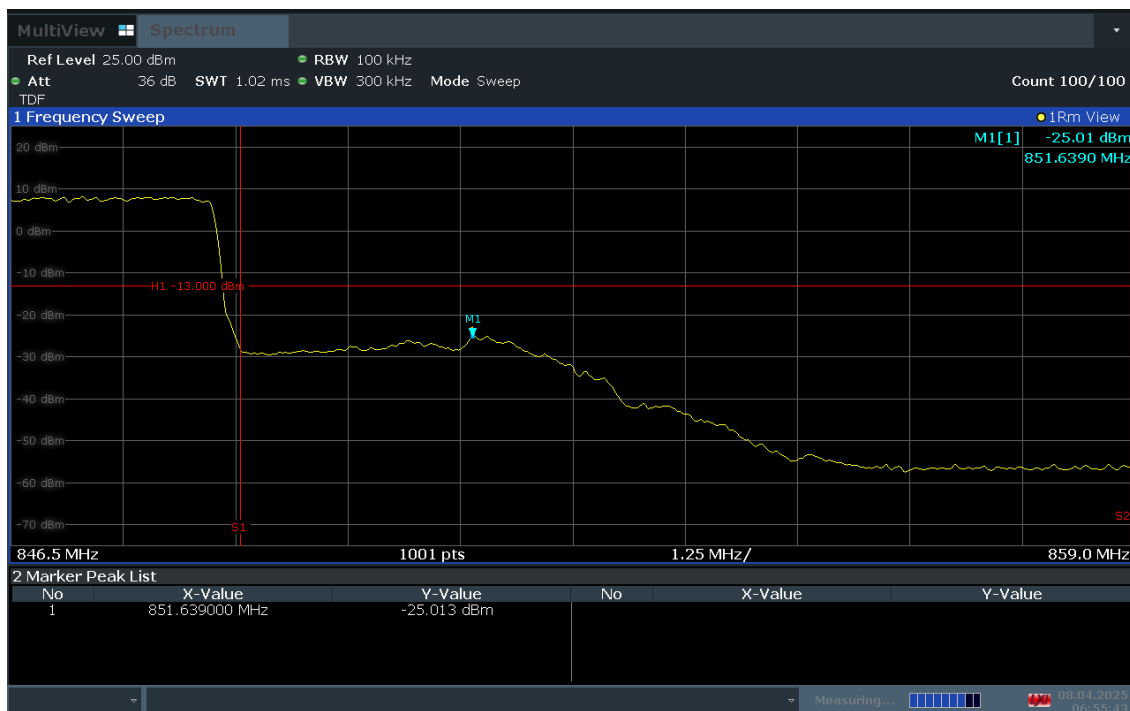
V2.2 08/24/2023

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06:54:29 08.04.2025

Plot 7-47. Lower BE Plot (LTE Band 26 - 5MHz QPSK – Full RB Configuration)



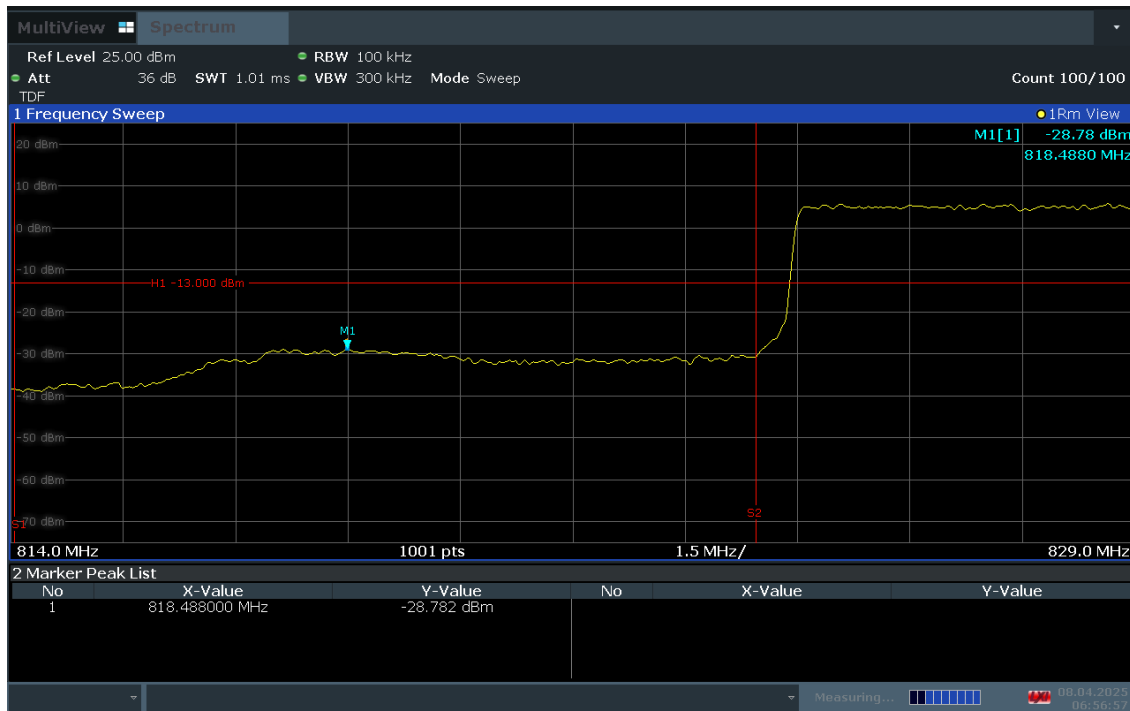
06:55:44 08.04.2025

Plot 7-48. Upper BE Plot (LTE Band 26 - 5MHz QPSK – Full RB Configuration)

FCC ID: BCG-A3326	 PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270036-01.BCG	Test Dates: 04/04/2025 - 7/17/2025	EUT Type: Watch	Page 44 of 75

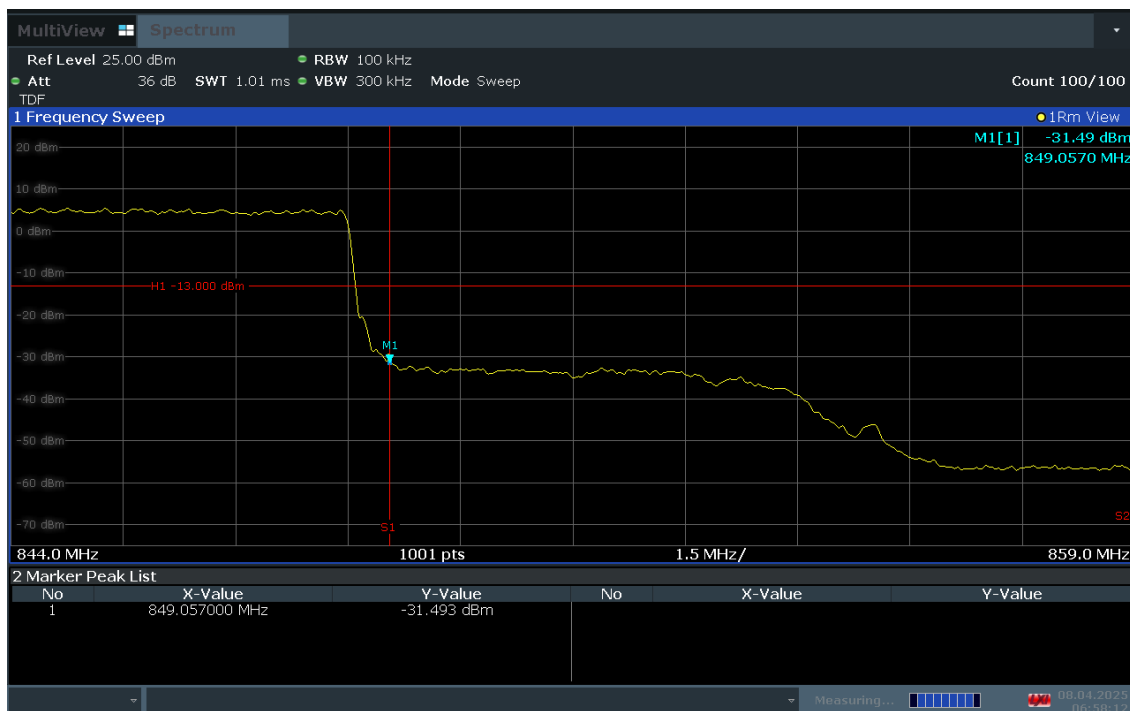
V2.2 08/24/2023

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06:56:58 08.04.2025

Plot 7-49. Lower BE Plot (LTE Band 26 - 10MHz QPSK – Full RB Configuration)



06:58:13 08.04.2025

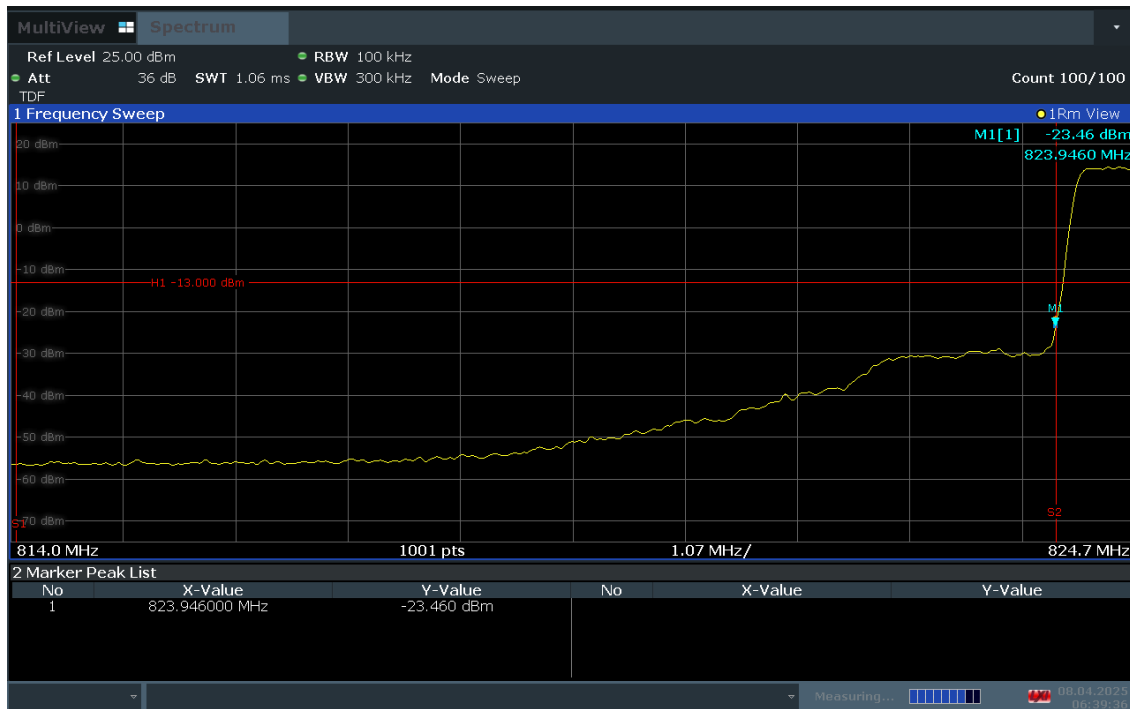
Plot 7-50. Upper BE Plot (LTE Band 26 - 10MHz QPSK – Full RB Configuration)

FCC ID: BCG-A3326		PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270036-01.BCG	Test Dates: 04/04/2025 - 7/17/2025	EUT Type: Watch	Page 45 of 75

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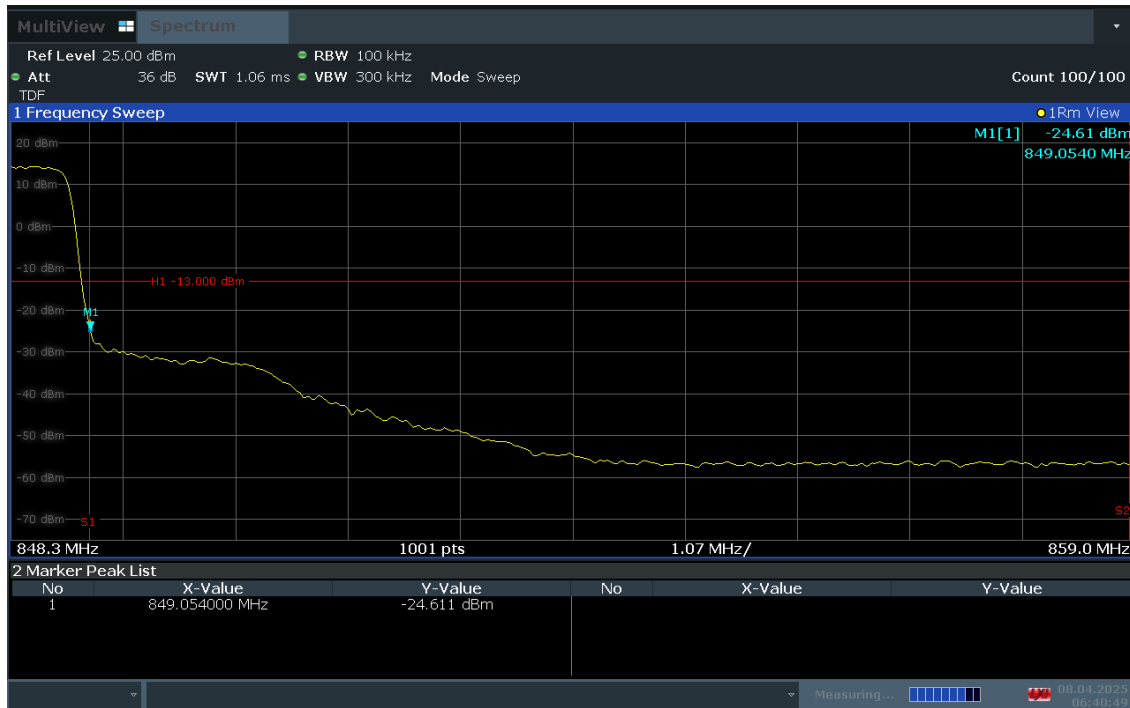
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LTE Band 5




06:39:37 08.04.2025

Plot 7-51. Lower BE Plot (LTE Band 5 – 1.4MHz QPSK – Full RB Configuration)



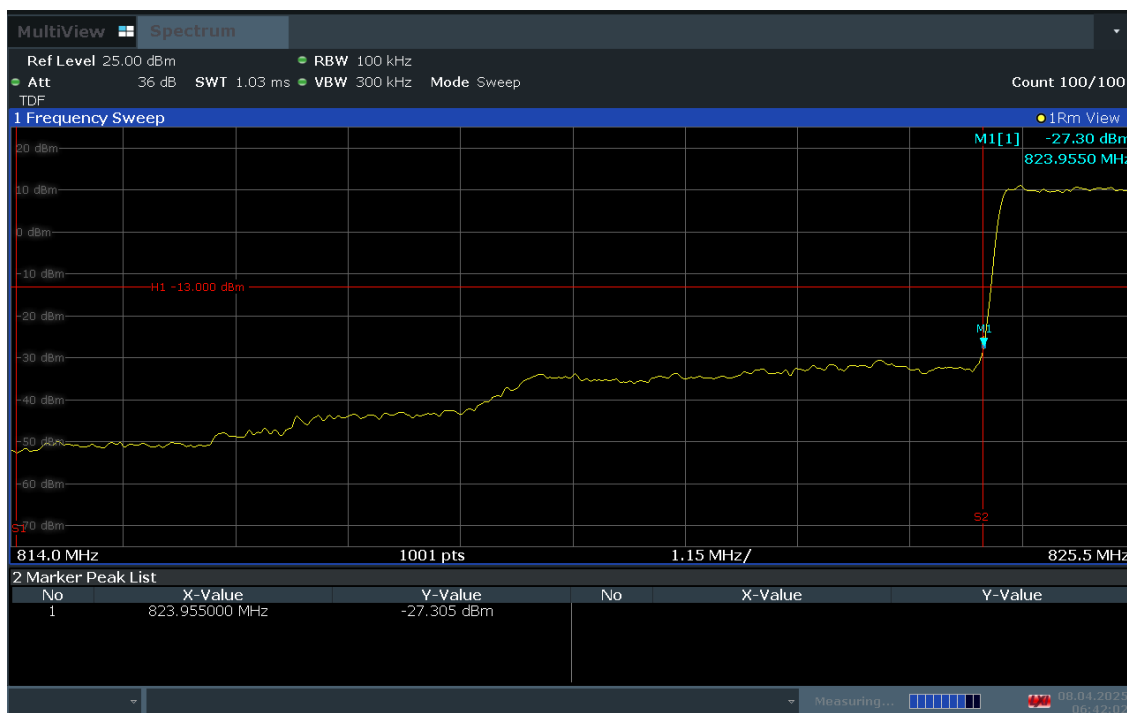
06:40:50 08.04.2025

Plot 7-52. Upper BE Plot (LTE Band 5 – 1.4MHz QPSK – Full RB Configuration)

FCC ID: BCG-A3326		PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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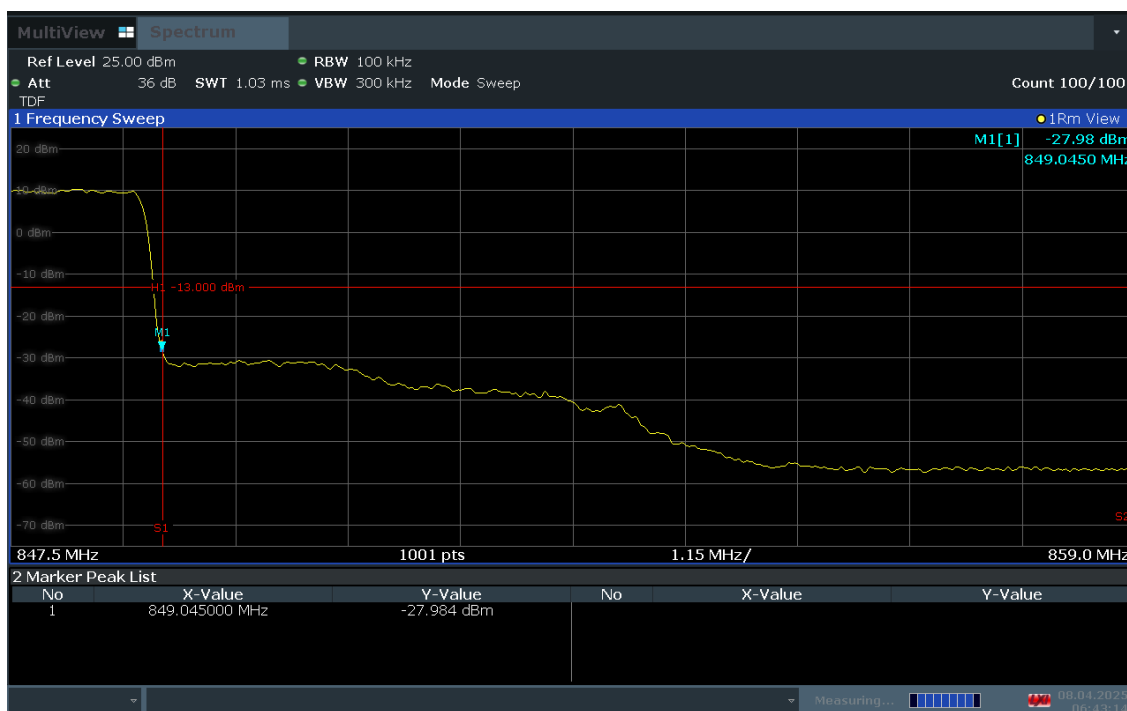
V2.2 08/24/2023

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06:42:02 08.04.2025

Plot 7-53. Lower BE Plot (LTE Band 5 - 3MHz QPSK – Full RB Configuration)



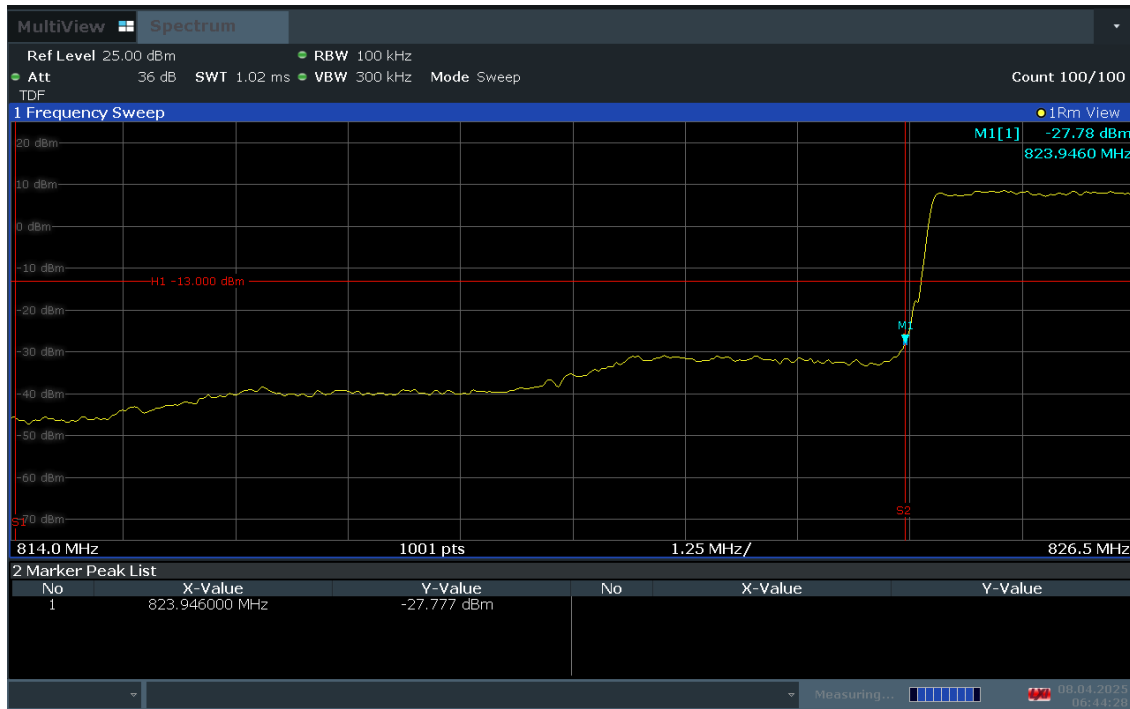
06:43:14 08.04.2025

Plot 7-54. Upper BE Plot (LTE Band 5 - 3MHz QPSK – Full RB Configuration)

FCC ID: BCG-A3326	 PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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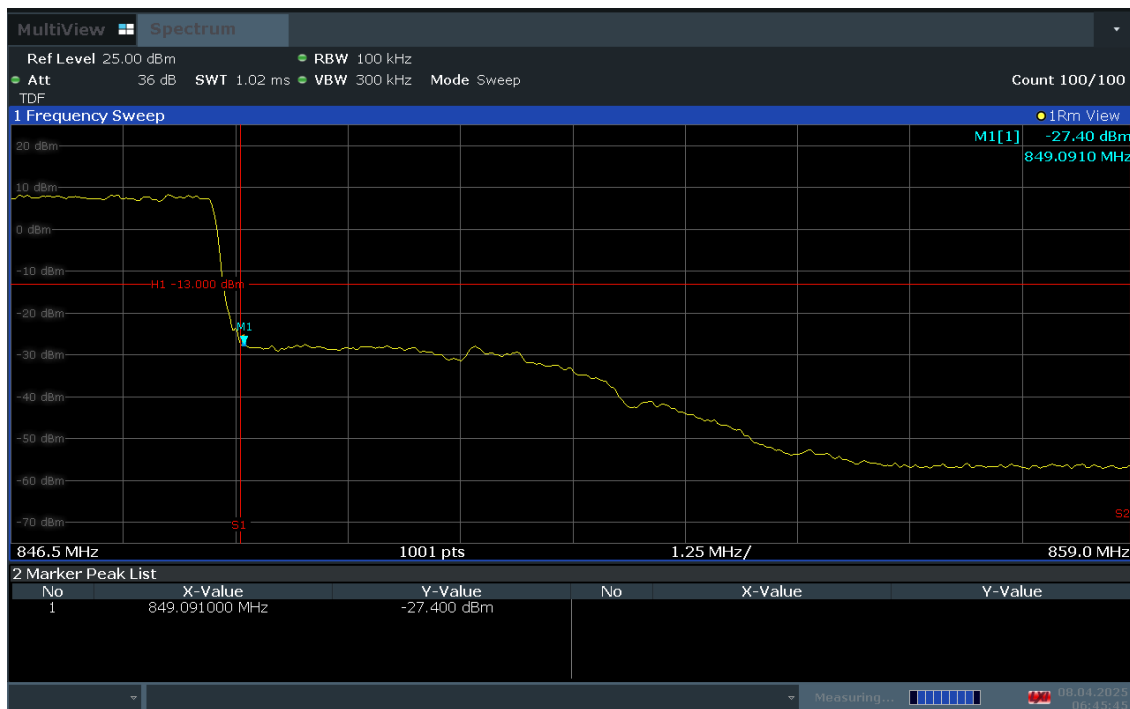
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06:44:28 08.04.2025

Plot 7-55. Lower BE Plot (LTE Band 5 - 5MHz QPSK – Full RB Configuration)



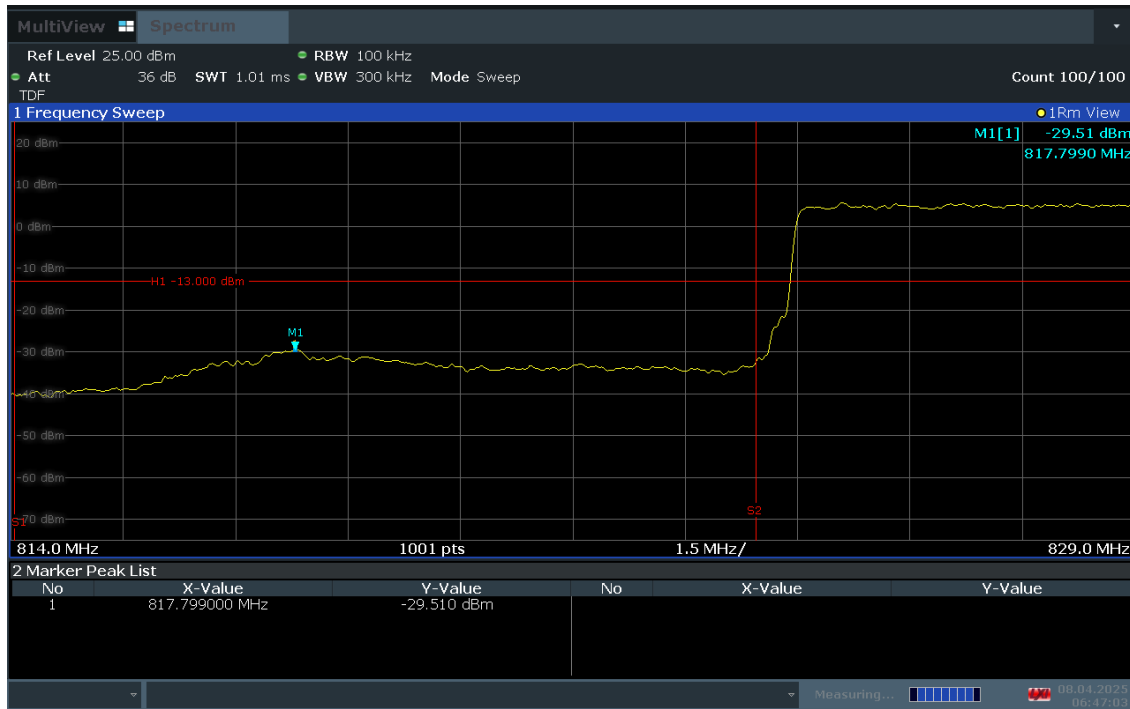
06:45:46 08.04.2025

Plot 7-56. Upper BE Plot (LTE Band 5 - 5MHz QPSK – Full RB Configuration)

FCC ID: BCG-A3326		PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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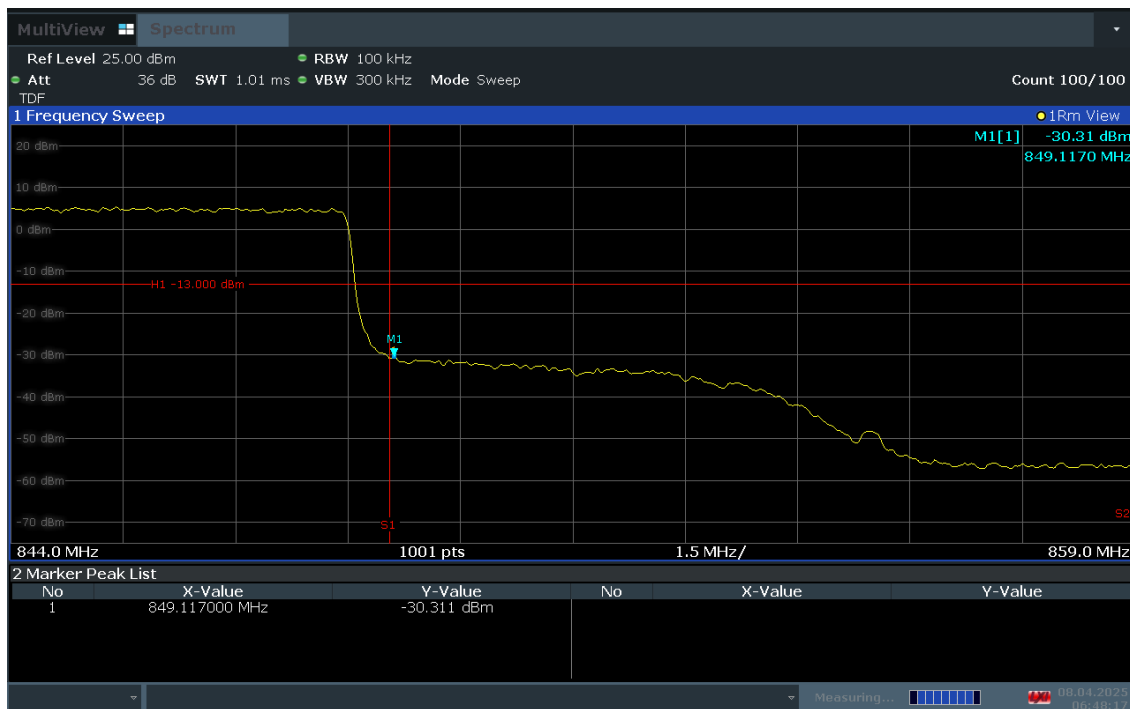
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06:47:04 08.04.2025

Plot 7-57. Lower BE Plot (LTE Band 5 - 10MHz QPSK – Full RB Configuration)



06:48:18 08.04.2025

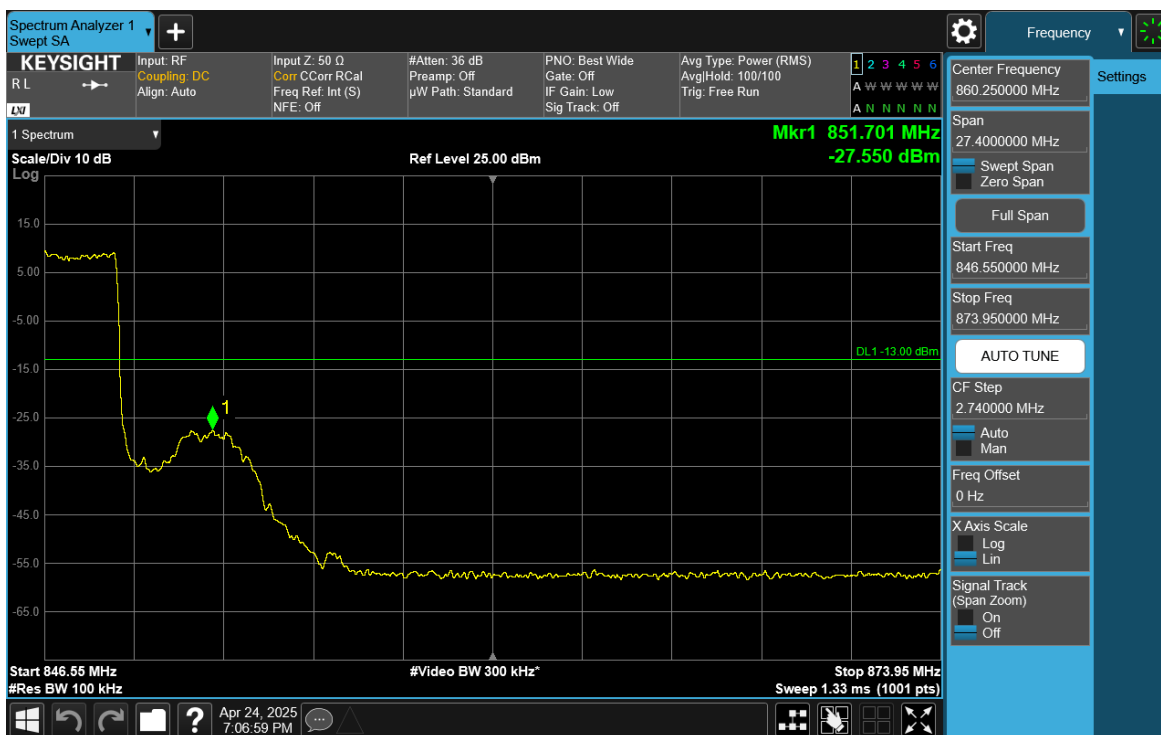
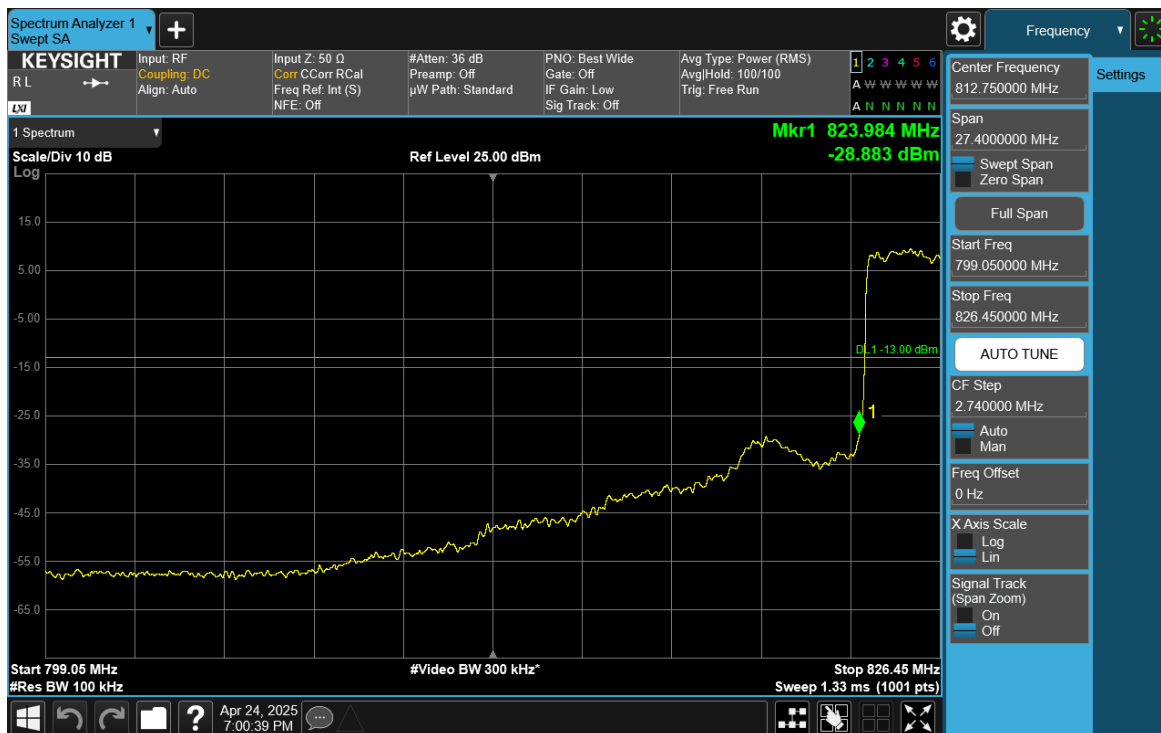
Plot 7-58. Upper BE Plot (LTE Band 5 - 10MHz QPSK – Full RB Configuration)


FCC ID: BCG-A3326		PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270036-01.BCG	Test Dates: 04/04/2025 - 7/17/2025	EUT Type: Watch	Page 49 of 75

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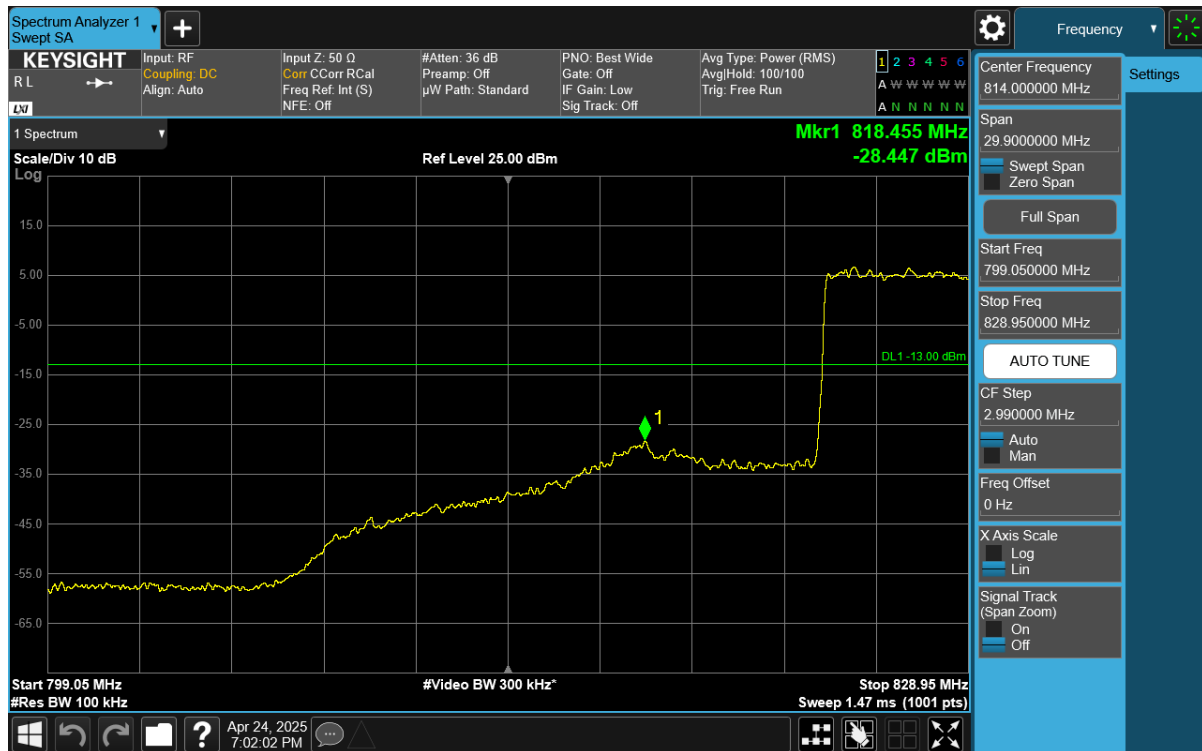
NR Band n26



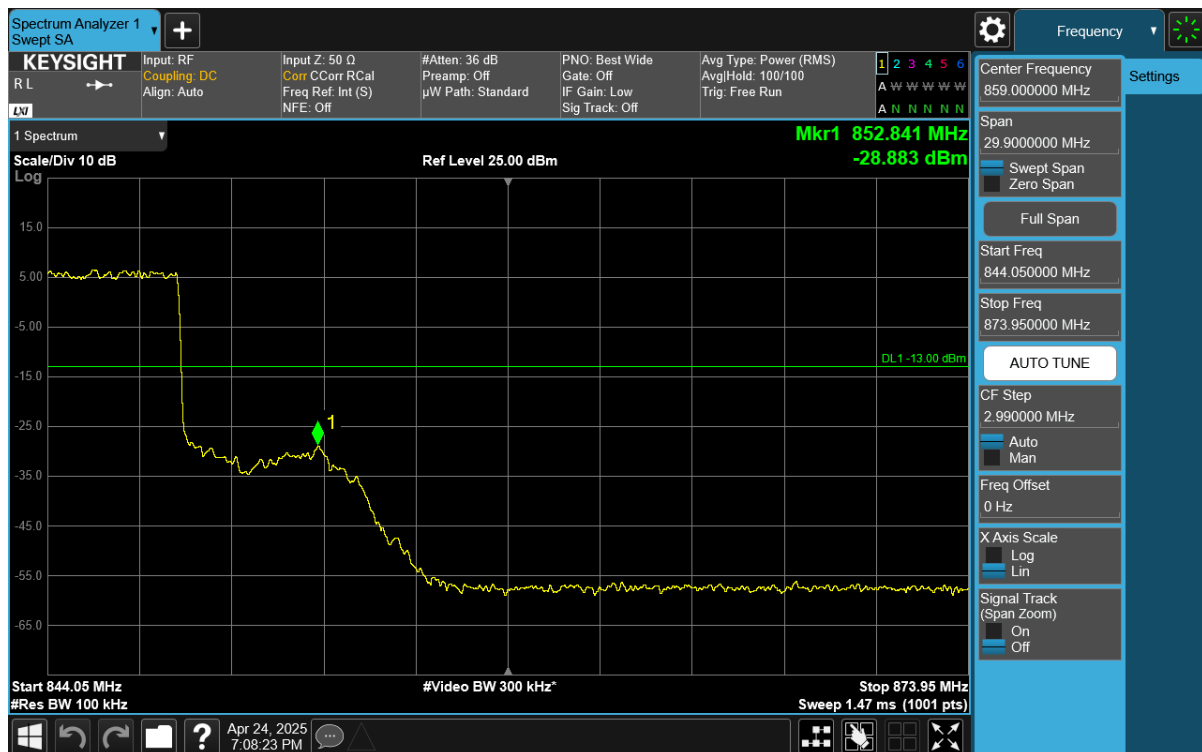
FCC ID: BCG-A3326	 PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270036-01.BCG	Test Dates: 04/04/2025 - 7/17/2025	EUT Type: Watch
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Plot 7-61. Lower BE Plot (NR Band n26 DFT-s-OFDM QPSK – 10MHz - Full RB)

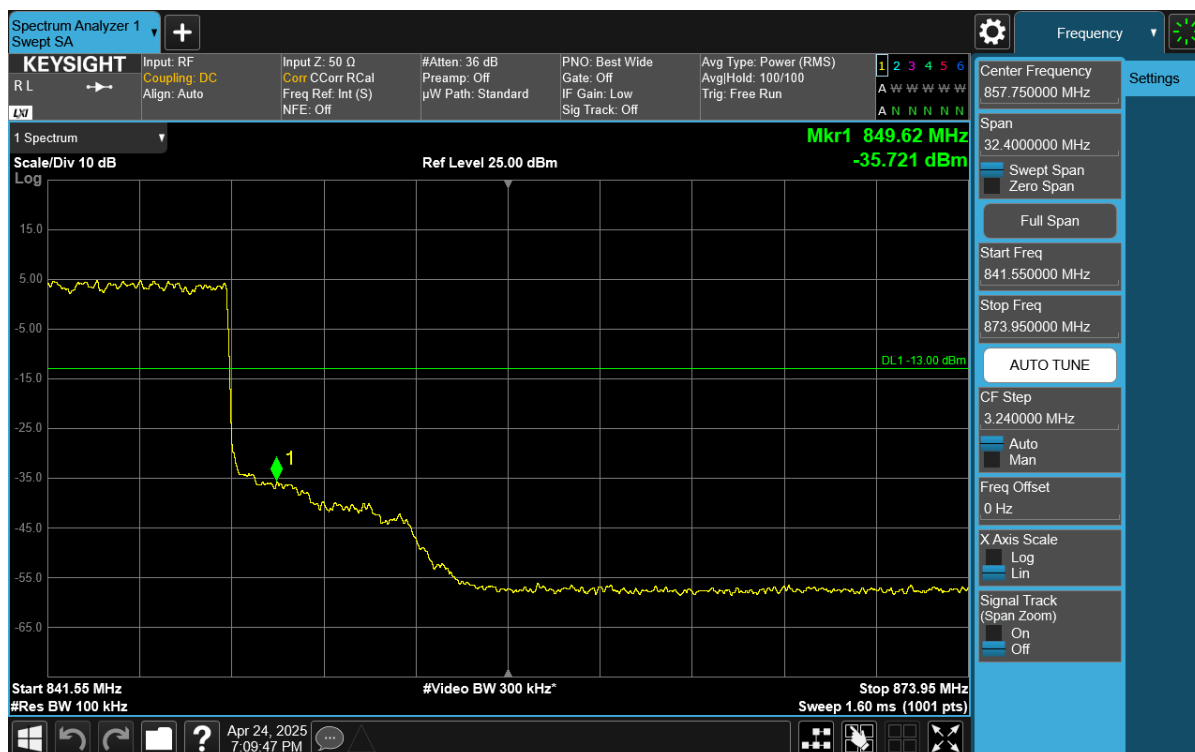
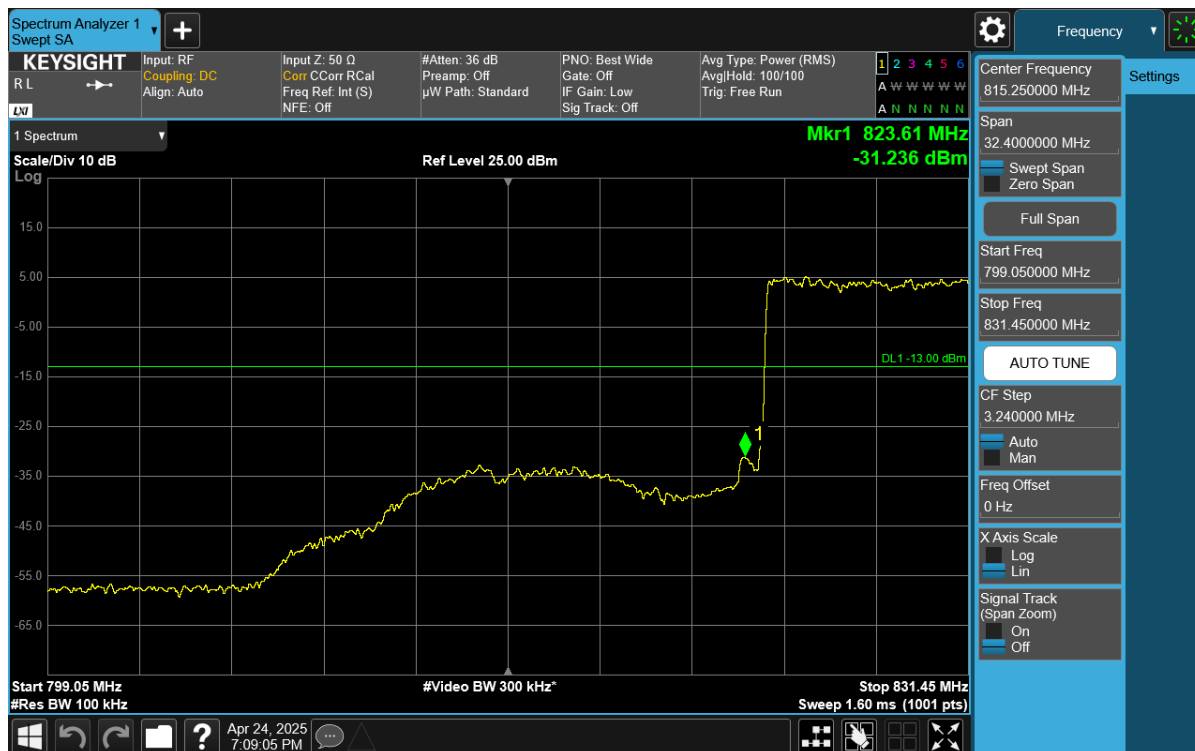



Plot 7-62. Upper BE Plot (NR Band n26 DFT-s-OFDM $\pi/2$ BPSK – 10MHz - Full RB)

FCC ID: BCG-A3326	 PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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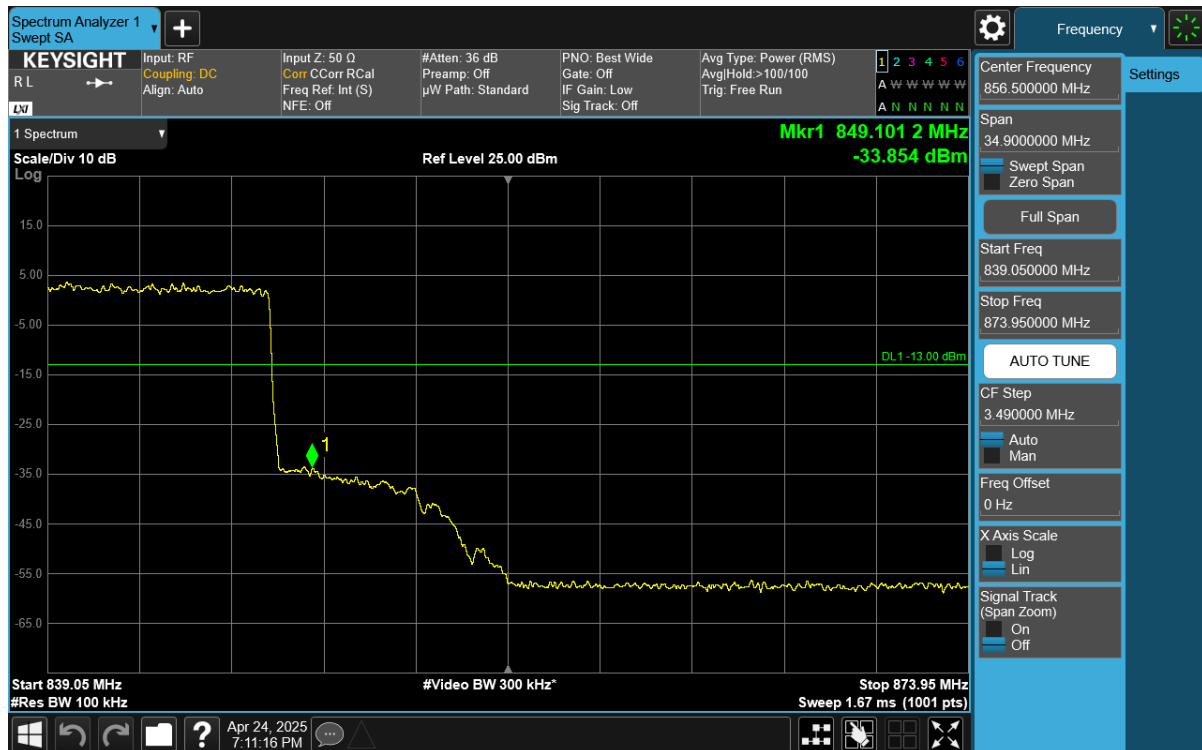
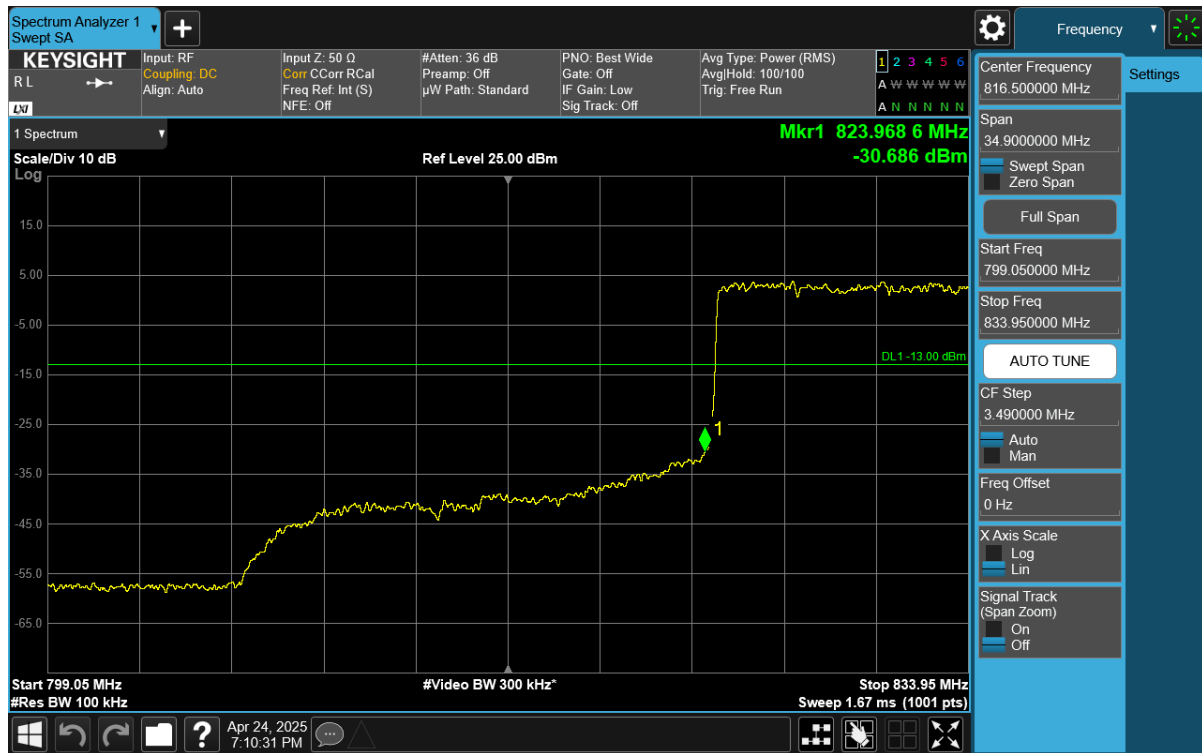
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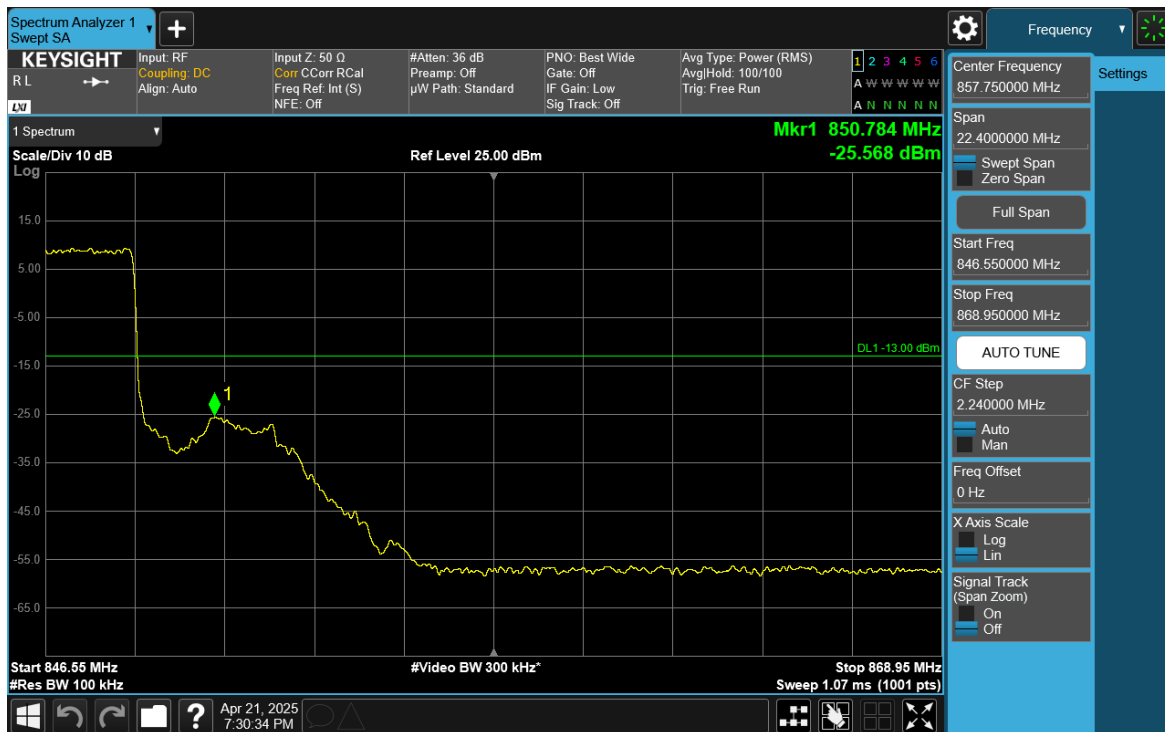
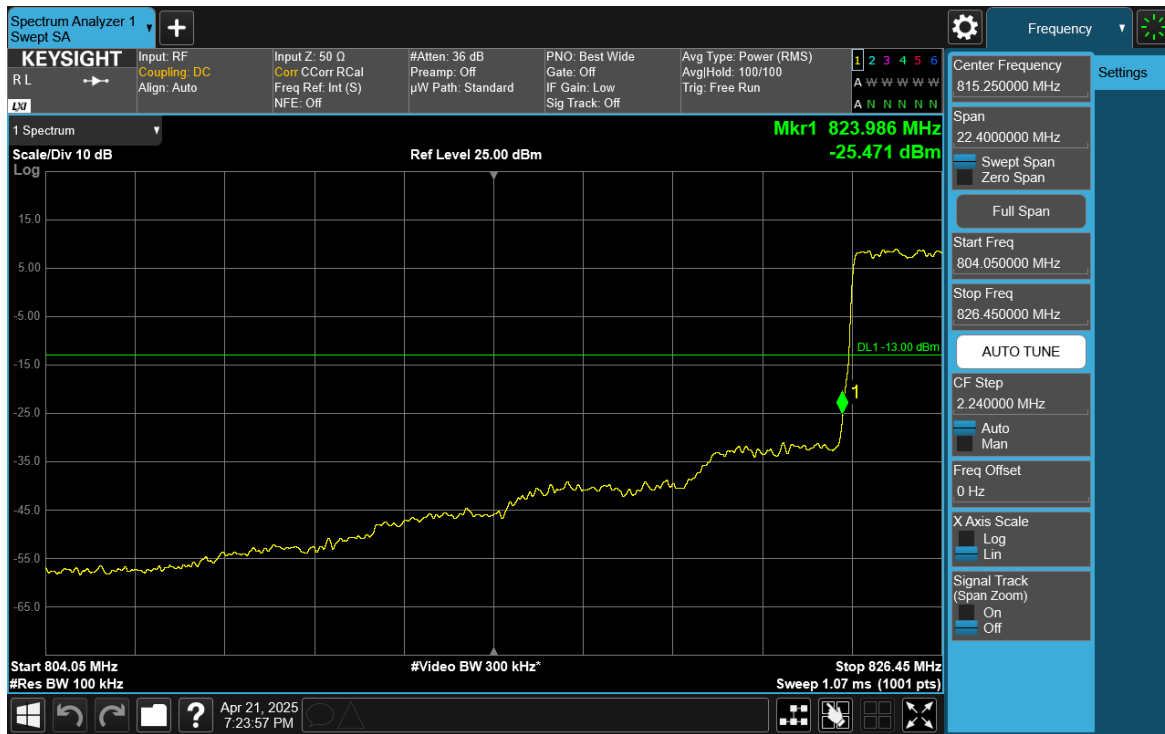



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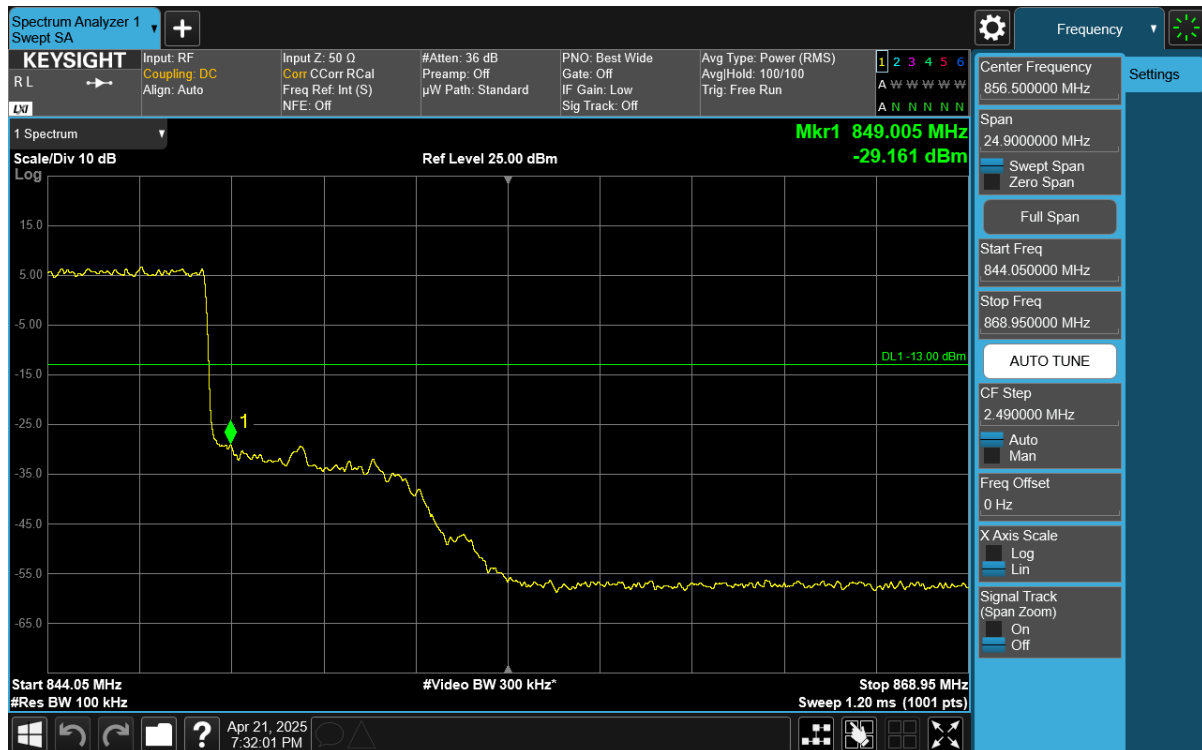
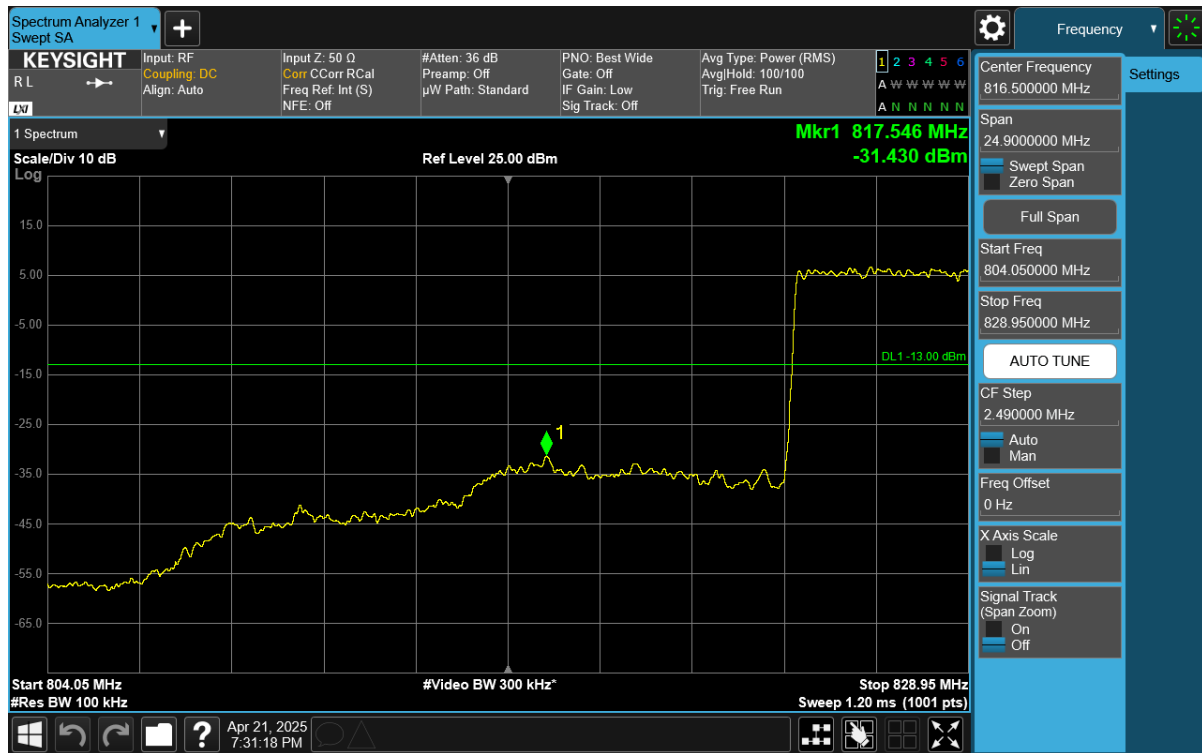
NR Band n5




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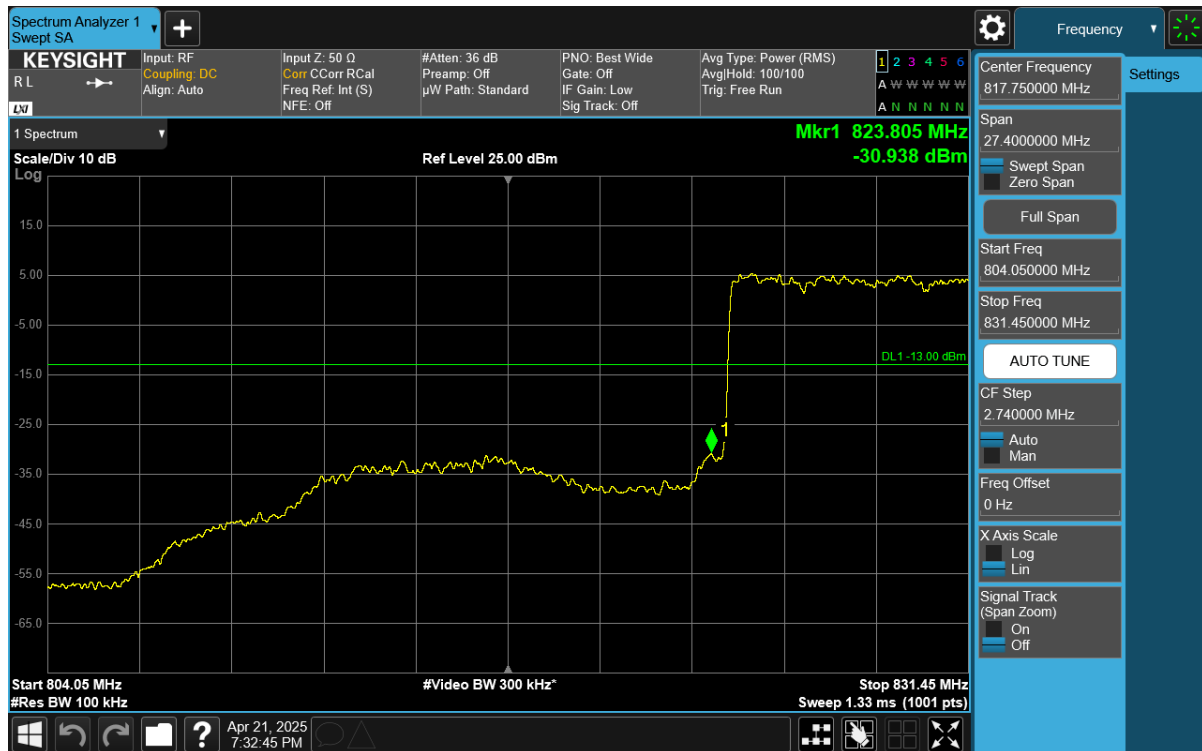
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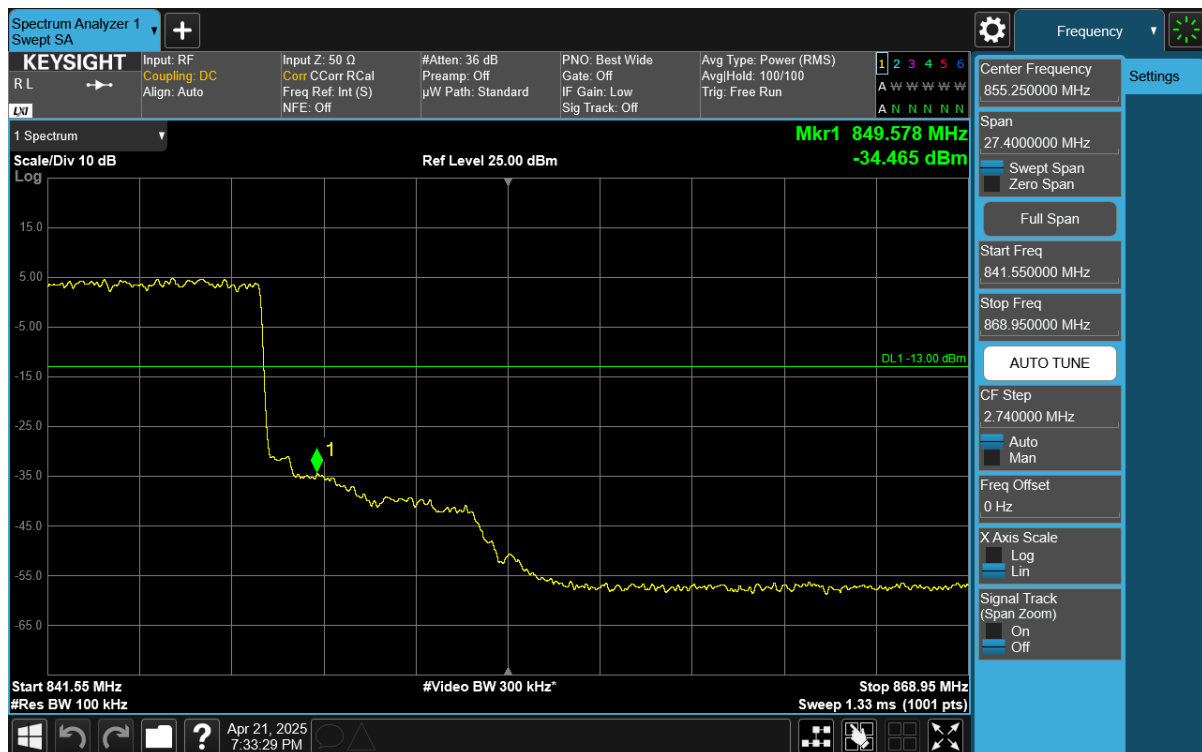
FCC ID: BCG-A3326	 PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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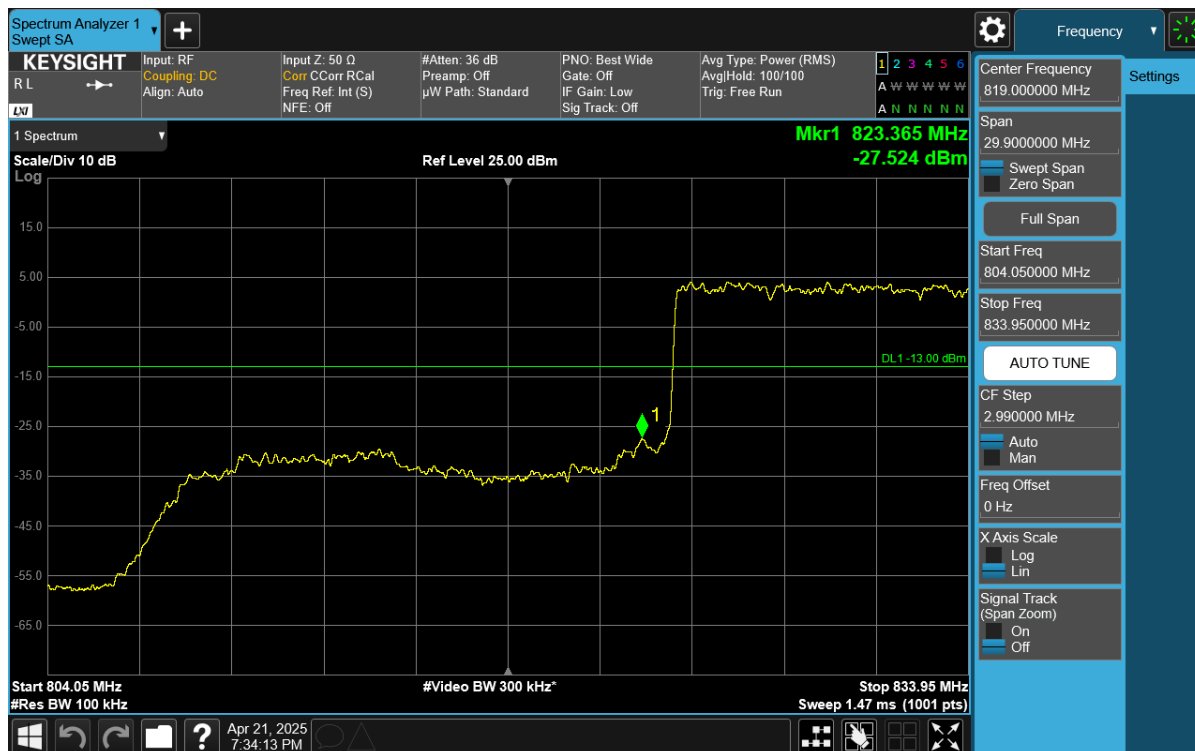


Plot 7-71. Lower BE Plot (NR Band n5 DFT-s-OFDM $\pi/2$ BPSK – 15MHz - Full RB)

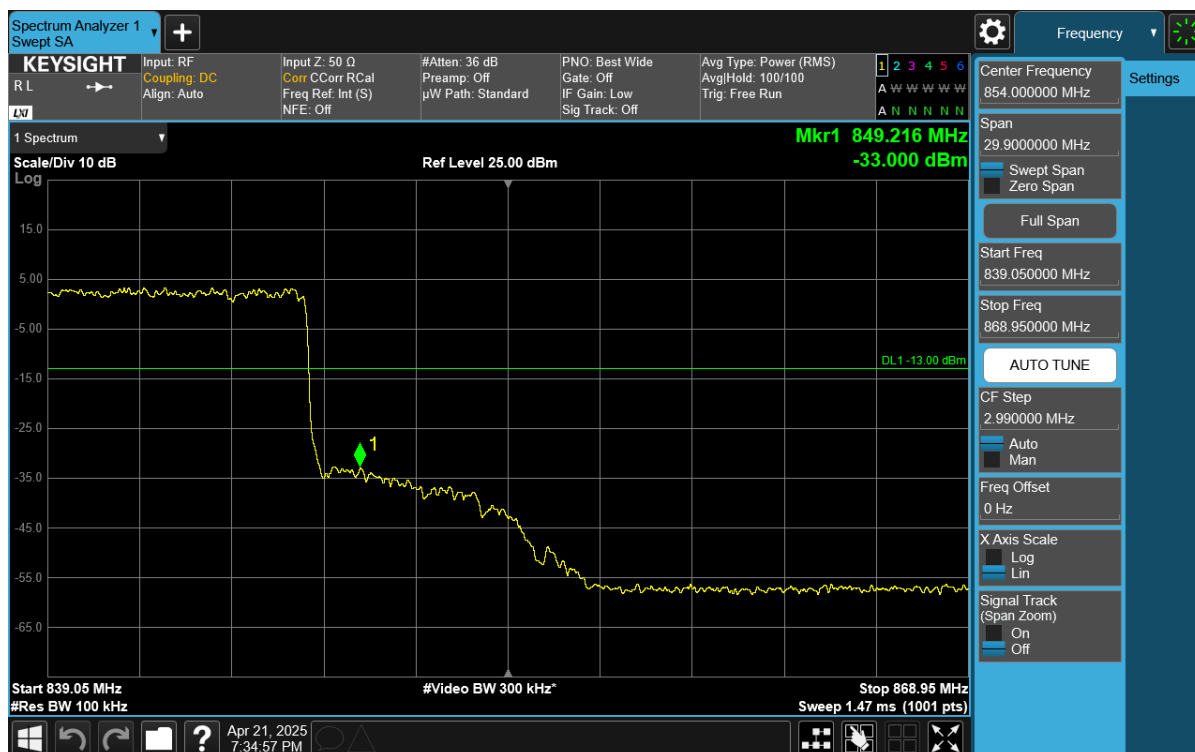


Plot 7-72. Upper BE Plot (NR Band n5 DFT-s-OFDM $\pi/2$ BPSK – 15MHz - Full RB)

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Plot 7-73. Lower BE Plot (NR Band n5 DFT-s-OFDM $\pi/2$ BPSK – 20MHz - Full RB)



Plot 7-74. Upper BE Plot (NR Band n5 DFT-s-OFDM $\pi/2$ BPSK – 20MHz - Full RB)

FCC ID: BCG-A3326	element	PART 22 MEASUREMENT REPORT	Approved by: Technical Manager
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7.5 Radiated Power (ERP)

§22.913(a)(5)

Test Overview

Effective Radiated Power (ERP) measurements are calculated by adding highest antenna gain to maximum measured conducted output power. All measurements are performed as RMS average measurements while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies.

Test Procedures Used

KDB 971168 D01 v03r01 – Section 5.2.1

ANSI C63.26-2015 – Section 5.2.5.5

Test Settings

The relevant equation for determining the ERP or EIRP from the conducted RF output power measured is:

$$ERP = P_{Meas} - LC + GT$$

Where:

ERP = Effective Radiated Power, respectively (expressed in the same units as P_{Meas} , typically dBW or dBm)

P_{Meas} = measured transmitter output power or PSD, in dBW or dBm

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

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

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

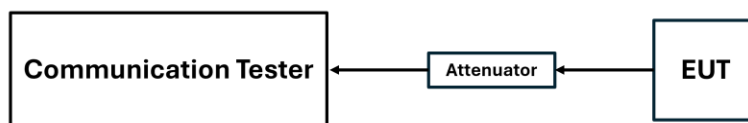


Figure 7-7. LTE Test Instrument & Measurement Setup

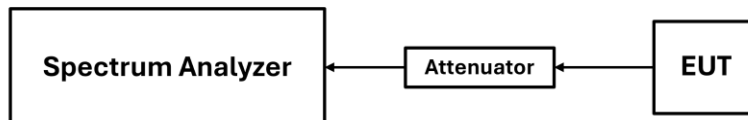




Figure 7-8. FR1 Test Instrument & Measurement Setup

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Test Notes:

1. The EUT was tested in all possible test configurations. The worst case emissions are reported with the EUT modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
2. This unit was tested with its standard battery.
3. The Level (dBm) readings in the table were taken with a correction table loaded into the base station simulator. The correction table was used to account for the signal attenuation in the connecting cable between the transmitter and antenna.
4. The Ant. Gains (GT) are listed in dBi.

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7.5.1 Antenna BCM – ERP

LTE Band 26

Bandwidth	Modulation	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [mW]	ERP Limit [dBm]	Margin [dB]
1.4 MHz	QPSK	824.7	-26.20	1 / 5	25.47	-2.88	0.515	38.45	-41.33
		836.5	-26.20	1 / 0	25.50	-2.85	0.519	38.45	-41.30
		848.3	-26.20	1 / 0	25.41	-2.94	0.508	38.45	-41.39
	16-QAM	848.3	-26.20	1 / 0	24.41	-3.94	0.404	38.45	-42.39
3 MHz	QPSK	825.5	-26.20	1 / 7	25.59	-2.76	0.530	38.45	-41.21
		836.5	-26.20	1 / 0	25.55	-2.80	0.525	38.45	-41.25
		847.5	-26.20	1 / 0	25.37	-2.98	0.504	38.45	-41.43
	16-QAM	825.5	-26.20	1 / 14	24.60	-3.75	0.422	38.45	-42.20
5 MHz	QPSK	826.5	-26.20	1 / 12	25.49	-2.86	0.518	38.45	-41.31
		836.5	-26.20	1 / 24	25.52	-2.83	0.521	38.45	-41.28
		846.5	-26.20	1 / 24	25.38	-2.97	0.505	38.45	-41.42
	16-QAM	826.5	-26.20	1 / 12	24.35	-4.00	0.398	38.45	-42.45
10 MHz	QPSK	829.0	-26.20	1 / 49	25.70	-2.65	0.543	38.45	-41.10
		836.5	-26.20	1 / 49	25.57	-2.78	0.527	38.45	-41.23
		844.0	-26.20	1 / 25	25.51	-2.84	0.520	38.45	-41.29
	16-QAM	829.0	-26.20	1 / 49	24.59	-3.76	0.421	38.45	-42.21

Table 7-2. Antenna BCM ERP Data (LTE Band 26)


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LTE Band 5

Bandwidth	Modulation	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [mW]	ERP Limit [dBm]	Margin [dB]
1.4 MHz	QPSK	824.7	-26.20	1 / 5	25.70	-2.65	0.543	38.45	-41.10
		836.5	-26.20	1 / 0	25.66	-2.69	0.538	38.45	-41.14
		848.3	-26.20	1 / 0	25.47	-2.88	0.515	38.45	-41.33
	16-QAM	829.0	-26.20	1 / 5	24.68	-3.67	0.430	38.45	-42.12
3 MHz	QPSK	825.5	-26.20	1 / 7	25.58	-2.77	0.528	38.45	-41.22
		836.5	-26.20	1 / 0	25.64	-2.71	0.536	38.45	-41.16
		847.5	-26.20	1 / 0	25.56	-2.79	0.526	38.45	-41.24
	16-QAM	844.0	-26.20	1 / 0	24.53	-3.82	0.415	38.45	-42.27
5 MHz	QPSK	826.5	-26.20	1 / 12	25.31	-3.04	0.497	38.45	-41.49
		836.5	-26.20	1 / 24	25.18	-3.17	0.482	38.45	-41.62
		825.5	-26.20	1 / 24	25.14	-3.21	0.478	38.45	-41.66
	16-QAM	836.5	-26.20	1 / 24	24.54	-3.81	0.416	38.45	-42.26
10 MHz	QPSK	829.0	-26.20	1 / 49	25.30	-3.05	0.495	38.45	-41.50
		836.5	-26.20	1 / 49	25.01	-3.34	0.463	38.45	-41.79
		844.0	-26.20	1 / 25	25.25	-3.10	0.490	38.45	-41.55
	16-QAM	844.0	-26.20	1 / 25	24.44	-3.91	0.406	38.45	-42.36

Table 7-3. Antenna BCM ERP Data (LTE Band 5)

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NR Band n26

Bandwidth	Modulation	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [mW]	ERP Limit [dBm]	Margin [dB]
5 MHz	$\pi/2$ BPSK	829.0	-26.20	1 / 23	25.66	-2.69	0.538	38.45	-41.14
		836.5	-26.20	1 / 23	25.70	-2.65	0.543	38.45	-41.10
		844.0	-26.20	1 / 12	25.63	-2.72	0.535	38.45	-41.17
	QPSK	829.0	-26.20	1 / 23	25.69	-2.66	0.542	38.45	-41.11
		836.5	-26.20	1 / 23	25.64	-2.71	0.536	38.45	-41.16
		844.0	-26.20	1 / 23	25.66	-2.69	0.538	38.45	-41.14
	16-QAM	836.5	-26.20	1 / 1	24.57	-3.78	0.419	38.45	-42.23
	64-QAM	829.0	-26.20	1 / 1	23.62	-4.73	0.337	38.45	-43.18
10 MHz	$\pi/2$ BPSK	829.0	-26.20	1 / 50	25.62	-2.73	0.533	38.45	-41.18
		836.5	-26.20	1 / 1	25.70	-2.65	0.543	38.45	-41.10
		844.0	-26.20	1 / 50	25.39	-2.96	0.506	38.45	-41.41
	QPSK	829.0	-26.20	1 / 50	25.60	-2.75	0.531	38.45	-41.20
		836.5	-26.20	1 / 25	25.69	-2.66	0.542	38.45	-41.11
		844.0	-26.20	1 / 1	25.26	-3.09	0.491	38.45	-41.54
	16-QAM	836.5	-26.20	1 / 25	24.70	-3.65	0.432	38.45	-42.10
	64-QAM	844.0	-26.20	1 / 50	23.66	-4.69	0.340	38.45	-43.14
15 MHz	$\pi/2$ BPSK	831.5	-26.20	1 / 1	25.32	-3.03	0.498	38.45	-41.48
		836.5	-26.20	1 / 36	25.50	-2.85	0.519	38.45	-41.30
		841.5	-26.20	1 / 36	25.70	-2.65	0.543	38.45	-41.10
	QPSK	831.5	-26.20	1 / 36	25.54	-2.81	0.524	38.45	-41.26
		841.5	-26.20	1 / 1	25.64	-2.71	0.536	38.45	-41.16
	16-QAM	841.5	-26.20	1 / 1	24.63	-3.72	0.425	38.45	-42.17
	64-QAM	831.5	-26.20	1 / 1	23.73	-4.62	0.345	38.45	-43.07
20 MHz	$\pi/2$ BPSK	834.0	-26.20	1 / 50	25.66	-2.69	0.538	38.45	-41.14
		836.5	-26.20	1 / 104	25.46	-2.89	0.514	38.45	-41.34
		839.0	-26.20	1 / 1	25.67	-2.68	0.540	38.45	-41.13
	QPSK	834.0	-26.20	1 / 1	25.53	-2.82	0.522	38.45	-41.27
		836.5	-26.20	1 / 1	25.70	-2.65	0.543	38.45	-41.10
		839.0	-26.20	1 / 50	25.68	-2.67	0.541	38.45	-41.12
	16-QAM	836.5	-26.20	1 / 104	24.70	-3.65	0.432	38.45	-42.10
	64-QAM	834.0	-26.20	1 / 1	23.69	-4.66	0.342	38.45	-43.11

Table 7-4. Antenna BCM ERP Data (NR Band n26)

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NR Band n5

Bandwidth	Modulation	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [mW]	ERP Limit [dBm]	Margin [dB]
5 MHz	π/2 BPSK	829.0	-26.20	1 / 1	25.56	-2.79	0.526	38.45	-41.24
		836.5	-26.20	1 / 12	25.41	-2.94	0.508	38.45	-41.39
		844.0	-26.20	1 / 23	25.36	-2.99	0.502	38.45	-41.44
	QPSK	829.0	-26.20	1 / 23	25.55	-2.80	0.525	38.45	-41.25
		836.5	-26.20	1 / 12	25.46	-2.89	0.514	38.45	-41.34
		844.0	-26.20	1 / 12	25.70	-2.65	0.543	38.45	-41.10
	16-QAM	836.5	-26.20	1 / 23	24.56	-3.79	0.418	38.45	-42.24
64-QAM	829.0	-26.20	1 / 23	23.69	-4.66	0.342	38.45	-43.11	
10 MHz	π/2 BPSK	829.0	-26.20	1 / 25	25.41	-2.94	0.508	38.45	-41.39
		836.5	-26.20	1 / 1	25.42	-2.93	0.509	38.45	-41.38
		844.0	-26.20	1 / 25	25.47	-2.88	0.515	38.45	-41.33
	QPSK	829.0	-26.20	1 / 50	25.68	-2.67	0.541	38.45	-41.12
		836.5	-26.20	1 / 25	25.66	-2.69	0.538	38.45	-41.14
		844.0	-26.20	1 / 25	25.70	-2.65	0.543	38.45	-41.10
	16-QAM	836.5	-26.20	1 / 25	24.70	-3.65	0.432	38.45	-42.10
64-QAM	844.0	-26.20	1 / 50	23.72	-4.63	0.344	38.45	-43.08	
15 MHz	π/2 BPSK	831.5	-26.20	1 / 36	25.66	-2.69	0.538	38.45	-41.14
		836.5	-26.20	1 / 36	25.37	-2.98	0.504	38.45	-41.43
		841.5	-26.20	1 / 77	25.70	-2.65	0.543	38.45	-41.10
	QPSK	831.5	-26.20	1 / 1	25.67	-2.68	0.540	38.45	-41.13
		836.5	-26.20	1 / 36	25.58	-2.77	0.528	38.45	-41.22
		841.5	-26.20	1 / 1	25.58	-2.77	0.528	38.45	-41.22
	16-QAM	831.5	-26.20	1 / 1	24.68	-3.67	0.430	38.45	-42.12
64-QAM	841.5	-26.20	1 / 36	23.62	-4.73	0.337	38.45	-43.18	
20 MHz	π/2 BPSK	834.0	-26.20	1 / 50	25.69	-2.66	0.542	38.45	-41.11
		836.5	-26.20	1 / 50	25.44	-2.91	0.512	38.45	-41.36
		839.0	-26.20	1 / 104	25.45	-2.90	0.513	38.45	-41.35
	QPSK	834.0	-26.20	1 / 50	25.53	-2.82	0.522	38.45	-41.27
		836.5	-26.20	1 / 1	25.70	-2.65	0.543	38.45	-41.10
		839.0	-26.20	1 / 104	25.68	-2.67	0.541	38.45	-41.12
	16-QAM	836.5	-26.20	1 / 1	24.71	-3.64	0.433	38.45	-42.09
64-QAM	839.0	-26.20	1 / 1	23.72	-4.63	0.344	38.45	-43.08	

Table 7-5. Antenna BCM ERP Data (NR Band n5)

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7.6 Radiated Spurious Emissions

§2.1053, 22.917(a)

Test Overview


Radiated spurious emissions measurements are performed using the field strength conversion method described in KDB 971168 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using horizontally and vertically polarized tuned dipole antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed as peak measurements while the EUT is operating at maximum power, and at the appropriate frequencies.

Test Procedures Used

KDB 971168 D01 v03r01 – Section 5.8

Test Settings

1. RBW = 100kHz for emissions below 1GHz and 1MHz for emissions above 1GHz
2. VBW $\geq 3 \times$ RBW
3. Span = 1.5 times the OBW
4. No. of sweep points $\geq 2 \times$ span / RBW
5. Detector = RMS
6. Trace mode = Average (Max Hold for pulsed emissions)
7. The trace was allowed to stabilize

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Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

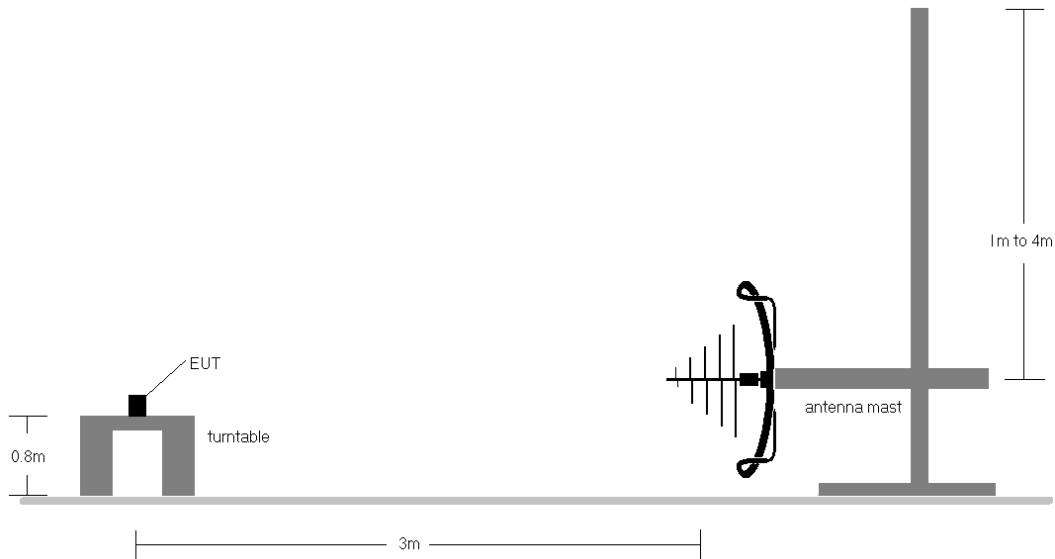


Figure 7-9. Test Instrument & Measurement Setup < 1GHz

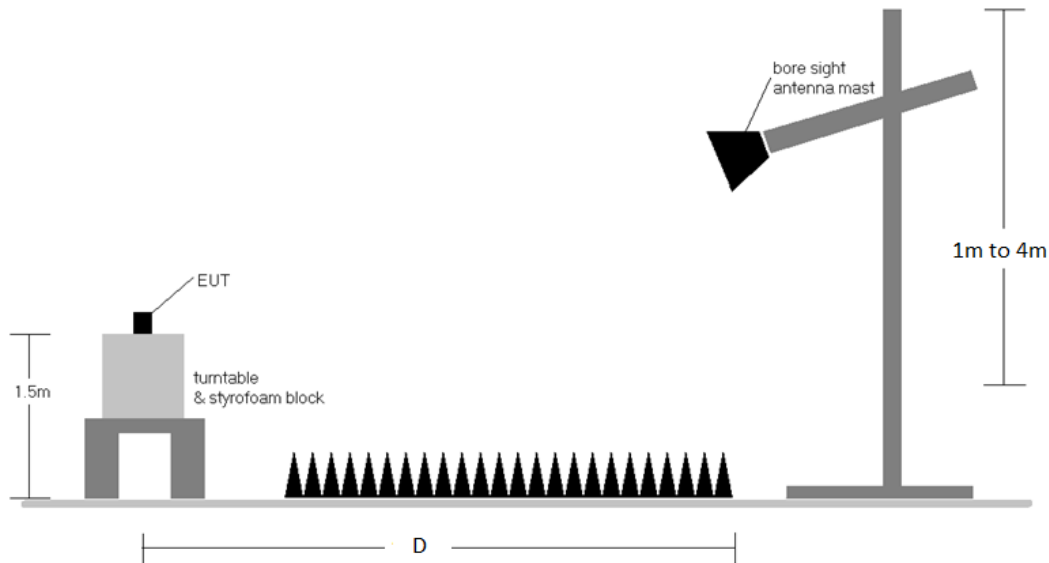




Figure 7-10. Test Instrument & Measurement Setup >1 GHz

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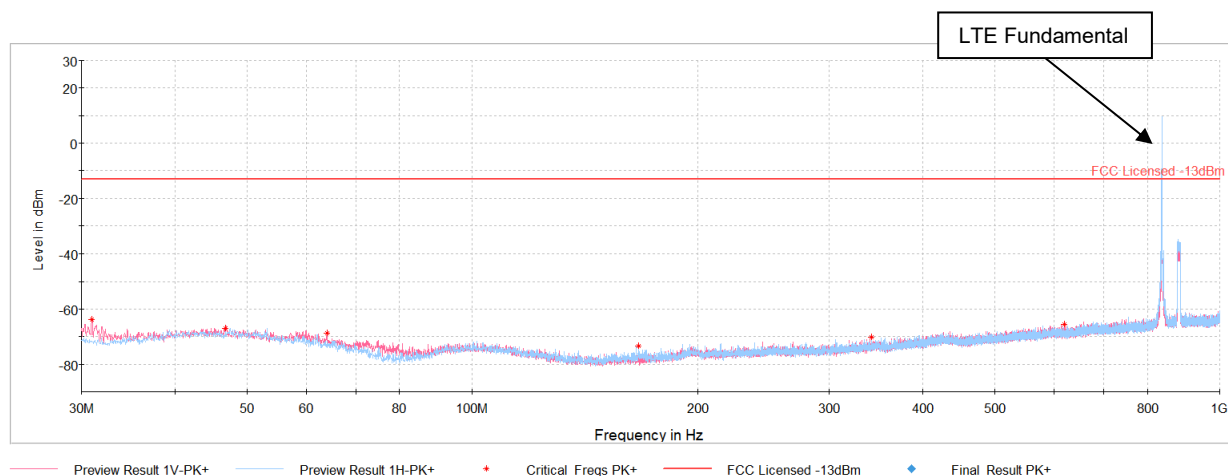
1. Field strengths are calculated using the Measurement quantity conversions in KDB 971168 D01 v03r01 Section 5.8.4.
 - a. $E(\text{dB}\mu\text{V}/\text{m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
 - b. $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V}/\text{m}) + 20\log D - 104.8$; where D is the measurement distance in meters.
2. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
3. This unit was tested with its standard battery.
4. The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
5. D is the measurement test distance and emissions 1-18GHz were measured at a 3 meters test distance.
6. The "-" shown in the following RSE tables are used to denote a noise floor measurement.
7. For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

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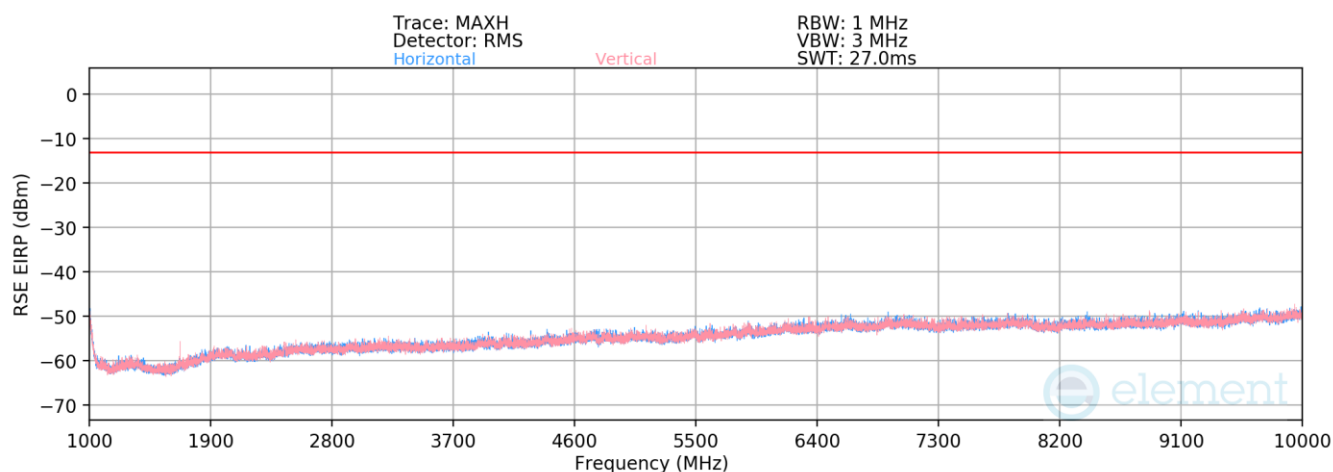
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7.6.1 Antenna BCM – Radiated Spurious Emission Measurements


LTE Band 26/5



Plot 7-75. Antenna BCM Radiated Spurious Plot below 1GHz (LTE Band 26/5)



Plot 7-76. Antenna BCM Radiated Spurious Plot above 1GHz (LTE Band 26/5)

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Bandwidth (MHz):	10
Frequency (MHz):	829.0
RB / Offset:	1 / 25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1658.0	V	379	18	-68.20	-1.62	37.18	-58.08	-13.00	-45.08
2487.0	-	-	-	-77.79	2.47	31.69	-63.57	-13.00	-50.57
3316.0	-	-	-	-79.02	4.52	32.50	-62.75	-13.00	-49.75
4145.0	-	-	-	-79.78	6.24	33.46	-61.80	-13.00	-48.80

Table 7-6. Antenna BCM Radiated Spurious Data (LTE Band 26/5 – Low Channel)

Bandwidth (MHz):	10
Frequency (MHz):	836.5
RB / Offset:	1 / 25


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1673.3	V	370	0	-72.09	-1.54	33.37	-61.89	-13.00	-48.89
2530.4	-	-	-	-77.97	2.94	31.97	-63.29	-13.00	-50.29
3330.4	-	-	-	-79.18	4.64	32.46	-62.79	-13.00	-49.79
4171.6	-	-	-	-80.09	6.62	33.53	-61.73	-13.00	-48.73

Table 7-7. Antenna BCM Radiated Spurious Data (LTE Band 26/5 – Mid Channel)

Bandwidth (MHz):	10
Frequency (MHz):	844.0
RB / Offset:	1 / 25

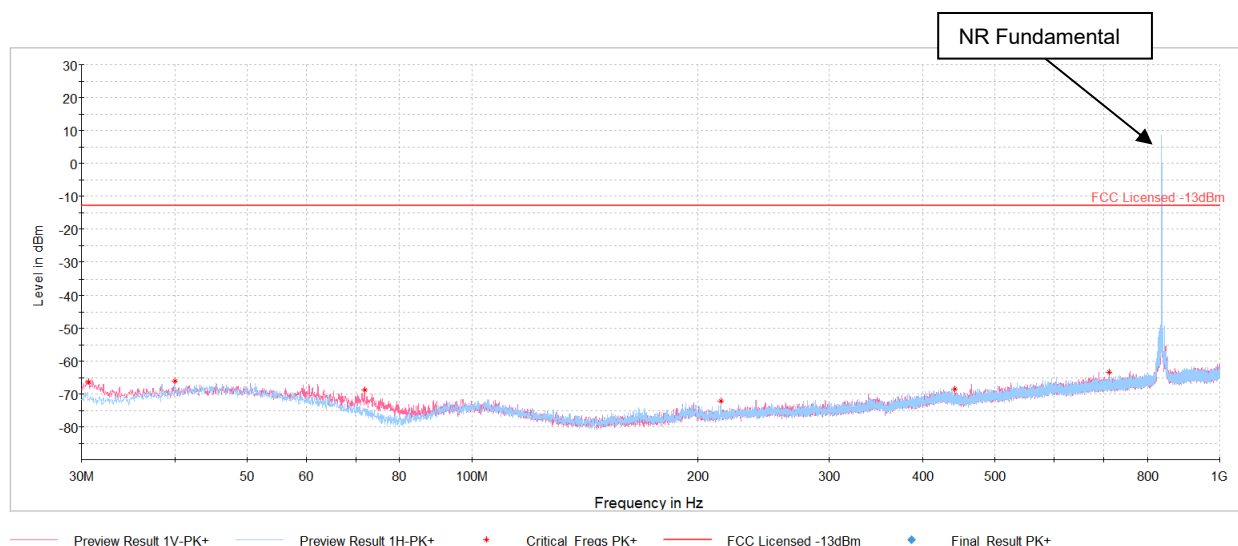
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1688.0	V	348	18	-75.19	-1.60	30.20	-65.05	-13.00	-52.05
2532.0	-	-	-	-77.99	2.94	31.94	-63.31	-13.00	-50.31
3376.0	-	-	-	-79.32	4.61	32.30	-62.96	-13.00	-49.96
4220.0	-	-	-	-80.39	6.58	33.19	-62.07	-13.00	-49.07

Table 7-8. Antenna BCM Radiated Spurious Data (LTE Band 26/5 – High Channel)

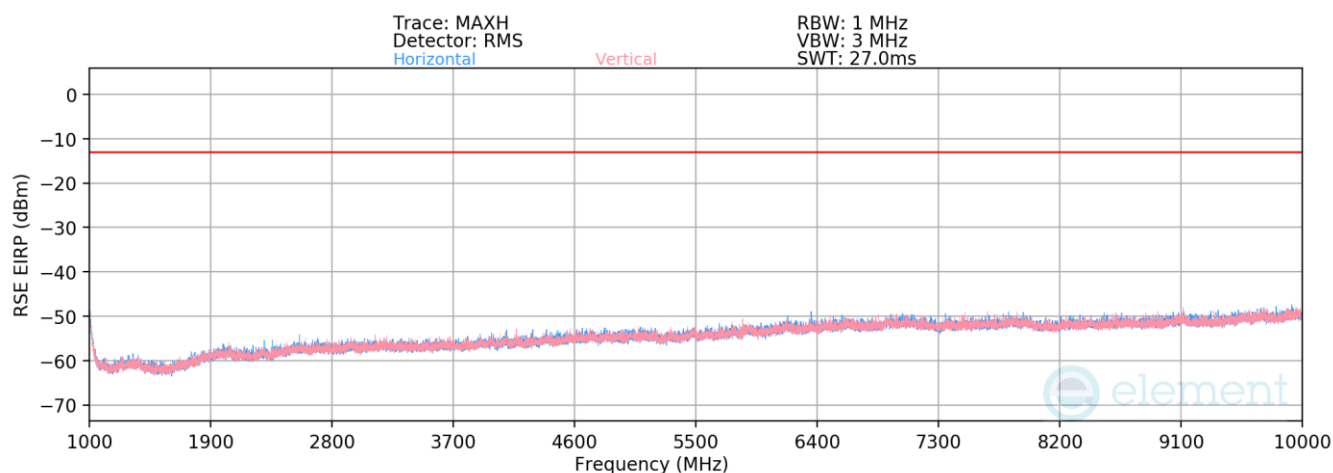
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NR Band n26/5



Plot 7-77. Antenna BCM Radiated Spurious Plot below 1GHz (NR Band n26/n5)



Plot 7-78. Antenna BCM Radiated Spurious Plot above 1GHz (NR Band n26/n5)

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Bandwidth (MHz):	20
Frequency (MHz):	834.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1668.0	V	139	342	-76.97	-1.54	28.49	-66.76	-13.00	-53.76
2502.0	-	-	-	-78.19	3.10	31.91	-63.35	-13.00	-50.35
3336.0	-	-	-	-79.08	4.52	32.44	-62.82	-13.00	-49.82
4170.0	-	-	-	-80.13	6.62	33.49	-61.77	-13.00	-48.77

Table 7-9. Antenna BCM Radiated Spurious Data (NR Band n26/n5 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	836.5
RB / Offset:	1 / 50


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1673.0	-	-	-	-76.82	-2.36	27.82	-67.44	-13.00	-54.44
2509.5	-	-	-	-77.72	1.94	31.23	-64.03	-13.00	-51.03
3346.0	-	-	-	-79.10	4.62	32.52	-62.74	-13.00	-49.74

Table 7-10. Antenna BCM Radiated Spurious Data (NR Band n26/n5 – Mid Channel)

Bandwidth (MHz):	20
Frequency (MHz):	839.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1678.0	V	179	334	-77.17	-1.54	28.29	-66.97	-13.00	-53.97
2517.0	-	-	-	-78.19	3.10	31.91	-63.35	-13.00	-50.35
3356.0	-	-	-	-79.16	4.64	32.49	-62.77	-13.00	-49.77
4195.0	-	-	-	-80.09	6.62	33.53	-61.72	-13.00	-48.72

Table 7-11. Antenna BCM Radiated Spurious Data (NR Band n26/n5 – High Channel)

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7.7 Frequency Stability / Temperature Variation

§2.1055, 22.355

Test Overview and Limit

Frequency Tolerance testing is performed in accordance with the guidelines of ANSI C63.26-2015 and TIA-603-E-2016. All port were tested and only the worst case data were reported. The Frequency Tolerance of the transmitter is measured by:

- a.) **Temperature:** The temperature is varied from -30°C to +50°C in 10°C increments using an environmental chamber.
- b.) **Primary Supply Voltage:** The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

For Part 22, the Frequency Tolerance of the transmitter shall be maintained within $\pm 0.00025\%$ (± 2.5 ppm) of the center frequency.


Test Procedure Used

ANSI C63.26-2015

TIA-603-E-2016

Test Settings

1. The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
2. The equipment is turned on in a “standby” condition for fifteen minutes before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
3. Frequency measurements are made at 10°C intervals ranging from -30°C to +50°C. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

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Test Setup

The EUT was connected via an RF cable to a spectrum analyzer with the EUT placed inside an environmental chamber. For LTE testing, in addition, the EUT was connected to a communication tester via an attenuated RF coupler.

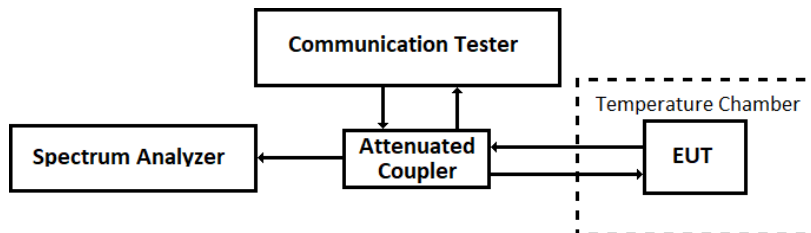


Figure 7-11. LTE Test Instrument & Measurement Setup

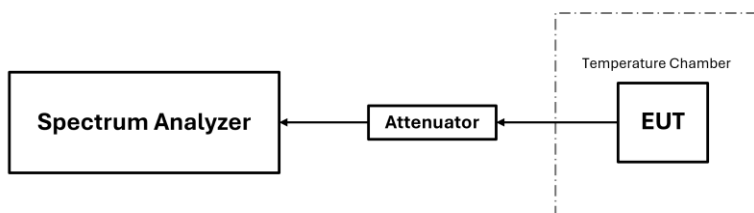



Figure 7-12. FR1 Test Instrument & Measurement Setup

Test Notes

None

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Frequency Tolerance / Temperature Variation

LTE Band 26/5					
		Operating Frequency (Hz):		836,500,000	
		Ref. Voltage (VDC):		3.80	
		Deviation Limit:		± 0.00025% or 2.5 ppm	
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	836,499,918	-432.1589999	-0.0000517
		- 20	836,500,625	274.6018999	0.0000328
		- 10	836,501,050	699.8230000	0.0000837
		0	836,500,223	-127.3400000	-0.0000152
		+ 10	836,500,934	583.9120000	0.0000698
		+ 20 (Ref)	836,500,350	350.2070000	0.0000419
		+ 30	836,499,662	-688.4750000	-0.0000823
		+ 40	836,500,049	-301.6899999	-0.0000361
		+ 50	836,500,549	198.3460000	0.0000237
Battery Endpoint	3.40	+ 20	836,499,839	-511.3040000	-0.0000611

Table 7-12. LTE Band 26/5 Frequency Tolerance Data


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Frequency Tolerance / Temperature Variation

NR Band n26/n5					
		Operating Frequency (Hz):		836,500,000	
		Ref. Voltage (VDC):		3.80	
		Deviation Limit:		± 0.00025% or 2.5 ppm	
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	836,500,519	412.8360000	0.0000494
		- 20	836,499,869	-237.1949999	-0.0000284
		- 10	836,500,764	658.3029999	0.0000787
		0	836,499,416	-689.7730000	-0.0000825
		+ 10	836,499,584	-521.6080000	-0.0000624
		+ 20 (Ref)	836,500,106	105.9845000	0.0000127
		+ 30	836,500,455	349.1270000	0.0000417
		+ 40	836,499,962	-143.9160000	-0.0000172
		+ 50	836,500,389	283.4019999	0.0000339
Battery Endpoint	3.40	+ 20	836,499,493	-612.7250000	-0.0000732


Table 7-13. NR Band n26/n5 Frequency Tolerance Data

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8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the Apple **Watch** **FCC ID: BCG-A3326** complies with all the requirements of Part 22 of the FCC rules.

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