



Element Materials Technology

(formerly PCTEST)

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PART 24 MEASUREMENT REPORT

Applicant Name:

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

Date of Testing:

12/20/2024 - 7/25/2025

Test Report Issue Date:

8/4/2025

Test Site/Location:

Element Materials Technology Morgan Hill, CA, USA

Test Report Serial No.:

1C2503270037-02.BCG

FCC ID:	BCG-A3328
Applicant Name:	Apple Inc.

Application Type:

Certification

Model: A3328, A3329

EUT Type: Watch

FCC Classification: PCS Licensed Transmitter Worn on Body (PCT)

FCC Rule Part: 24

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 Ortiz
Executive Vice President



ACCREDITED
CERT #2041.02

FCC ID: BCG-A3328	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270037-02.BCG	Test Dates: 12/20/2024 - 7/25/2025	EUT Type: Watch	Page 1 of 130

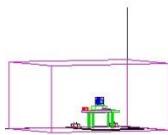
V2.2 09/07/2023

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T A B L E O F C O N T E N T S

1.0	INTRODUCTION	4
1.1	Scope	4
1.2	Element Materials Technology Test Location	4
1.3	Test Facility / Accreditations	4
2.0	PRODUCT INFORMATION	5
2.1	Equipment Description	5
2.2	Device Capabilities	5
2.3	Antenna Description	6
2.4	Test Support Equipment	6
2.5	Test Configuration	7
2.6	Software and Firmware	7
2.7	EMI Suppression Device(s)/Modifications	7
3.0	DESCRIPTION OF TESTS	8
3.1	Evaluation Procedure	8
3.2	Radiated Spurious Emissions	8
4.0	MEASUREMENT UNCERTAINTY	9
5.0	TEST EQUIPMENT CALIBRATION DATA	10
6.0	SAMPLE CALCULATIONS	11
7.0	TEST RESULTS	12
7.1	Summary	12
7.2	Occupied Bandwidth	13
7.3	Spurious and Harmonic Emissions at Antenna Terminal	29
7.4	Band Edge Emissions at Antenna Terminal	41
7.5	Peak-Average Ratio	83
7.6	Radiated Power (EIRP)	113
7.7	Radiated Spurious Emissions	119
7.8	Frequency Stability / Temperature Variation	126
8.0	CONCLUSION	130

FCC ID: BCG-A3328	 element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270037-02.BCG	Test Dates: 12/20/2024 - 7/25/2025	EUT Type: Watch	Page 2 of 130



PART 24 MEASUREMENT REPORT



Mode	Bandwidth	Modulation	Tx Frequency Range [MHz]	OBW [MHz]	PAR at 0.1% [dB]	EIRP		Emission Designator
						Max. Power [mW]	Max. Power [dBm]	
Band 2	1.4 MHz	QPSK	1850.7 - 1909.3	1.1051	5.10	17.783	12.50	1M11G7W
		16QAM	1850.7 - 1909.3	1.1009	6.11	15.205	11.82	1M10D7W
	3 MHz	QPSK	1851.5 - 1908.5	2.7066	5.18	17.458	12.42	2M71G7W
		16QAM	1851.5 - 1908.5	2.7117	5.93	14.997	11.76	2M71D7W
	5 MHz	QPSK	1852.5 - 1907.5	4.5565	5.27	17.620	12.46	4M56G7W
		16QAM	1852.5 - 1907.5	4.5236	5.89	15.488	11.90	4M52D7W
	10MHz	QPSK	1855 - 1905	9.0162	5.32	17.219	12.36	9M02G7W
		16QAM	1856 - 1905	5.0765	5.70	14.894	11.73	5M08D7W
	15 MHz	QPSK	1857.5 - 1902.5	13.5190	5.38	17.783	12.50	13M5G7W
		16QAM	1857.5 - 1902.5	5.3235	5.48	14.791	11.70	5M32D7W
Band 25	1.4 MHz	QPSK	1850.7 - 1914.3	1.1051	5.13	17.498	12.43	1M11G7W
		16QAM	1850.7 - 1914.3	1.1009	5.91	15.382	11.87	1M10D7W
	3 MHz	QPSK	1851.5 - 1913.5	2.7066	5.11	17.179	12.35	2M71G7W
		16QAM	1851.5 - 1913.5	2.7117	5.93	14.859	11.72	2M71D7W
	5 MHz	QPSK	1852.5 - 1912.5	4.5565	5.35	17.298	12.38	4M56G7W
		16QAM	1852.5 - 1912.5	4.5236	5.88	15.596	11.93	4M52D7W
	10 MHz	QPSK	1855 - 1910	9.0162	5.37	17.140	12.34	9M02G7W
		16QAM	1855 - 1910	5.0765	5.79	14.689	11.67	5M08D7W
	15 MHz	QPSK	1857.5 - 1907.5	13.5190	5.39	17.783	12.50	13M5G7W
		16QAM	1857.5 - 1907.5	5.3235	5.78	14.928	11.74	5M32D7W
NR Band n2	5 MHz	QPSK	1860 - 1905	18.0050	5.23	17.783	12.50	18M0G7W
		16QAM	1860 - 1905	5.3954	5.70	15.959	12.03	5M40D7W
		π/2 BPSK	1852.5 - 1907.5	4.4773	4.27	17.783	12.50	4M48G7W
		QPSK	1852.5 - 1907.5	4.4814	5.29	17.660	12.47	4M48G7W
	10 MHz	16QAM	1852.5 - 1907.5	4.4762	5.98	13.900	11.43	4M48D7W
		64QAM	1852.5 - 1907.5	4.4881	6.33	11.194	10.49	4M49D7W
		π/2 BPSK	1855 - 1905	8.9723	4.26	17.783	12.50	8M97G7W
		QPSK	1855 - 1905	9.2840	5.42	17.742	12.49	9M28G7W
	15 MHz	16QAM	1855 - 1905	9.3272	6.06	13.900	11.43	9M33D7W
		64QAM	1855 - 1905	9.3327	6.39	11.092	10.45	9M33D7W
		π/2 BPSK	1857.5 - 1902.5	13.4750	4.16	17.579	12.45	13M5G7W
		QPSK	1857.5 - 1902.5	14.0920	5.27	17.783	12.50	14M1G7W
NR Band n25	20 MHz	16QAM	1857.5 - 1902.5	14.1190	6.04	13.900	11.43	14M1D7W
		64QAM	1857.5 - 1902.5	14.1080	6.13	11.092	10.45	14M1D7W
		π/2 BPSK	1860 - 1900	17.8610	4.15	17.783	12.50	17M9G7W
		QPSK	1860 - 1900	19.0440	5.32	17.620	12.46	19M0G7W
	5 MHz	16QAM	1860 - 1900	18.9860	5.96	14.028	11.47	19M0D7W
		64QAM	1860 - 1900	18.9320	6.42	11.092	10.45	18M9D7W
		π/2 BPSK	1852.5 - 1912.5	4.4773	4.25	17.783	12.50	4M48G7W
		QPSK	1852.5 - 1912.5	4.4814	5.27	17.701	12.48	4M48G7W
	10 MHz	16QAM	1852.5 - 1912.5	4.4762	5.99	14.060	11.48	4M48D7W
		64QAM	1852.5 - 1912.5	4.4881	6.43	11.092	10.45	4M49D7W
		π/2 BPSK	1855 - 1910	8.9723	4.24	17.783	12.50	8M97G7W
		QPSK	1855 - 1910	9.2840	5.44	17.498	12.43	9M28G7W
NR Band n25	15 MHz	16QAM	1855 - 1910	9.3272	6.07	14.158	11.51	9M33D7W
		64QAM	1855 - 1910	9.3327	6.39	11.041	10.43	9M33D7W
		π/2 BPSK	1857.5 - 1907.5	13.4750	4.15	17.783	12.50	13M5G7W
		QPSK	1857.5 - 1907.5	14.0920	5.24	17.100	12.33	14M1G7W
	20 MHz	16QAM	1857.5 - 1907.5	14.1190	6.06	14.191	11.52	14M1D7W
		64QAM	1857.5 - 1907.5	14.1080	6.14	11.220	10.50	14M1D7W
		π/2 BPSK	1860 - 1905	17.8610	4.09	17.783	12.50	17M9G7W
		QPSK	1860 - 1905	19.0440	5.28	17.660	12.47	19M0G7W

EUT Overview

FCC ID: BCG-A3328	element			PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270037-02.BCG	Test Dates: 12/20/2024 - 7/25/2025	EUT Type: Watch			

V2.2 09/07/2023

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Page 3 of 130

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 Materials Technology 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 Agreements (MRAs).

FCC ID: BCG-A3328	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270037-02.BCG	Test Dates: 12/20/2024 - 7/25/2025	EUT Type: Watch	Page 4 of 130

2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **Apple Watch FCC ID:BCG-A3328**. 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 24.

Test Device Serial No.: L2F7HR6WJC, LDWD7GHHXW, MXT40JXY0C, FN6HFX0011W0000YCL, FN6HFX000390000YCL

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.

FCC ID: BCG-A3328	PART 24 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270037-02.BCG	Test Dates: 12/20/2024 - 7/25/2025	EUT Type: Watch		Page 5 of 130

2.3 Antenna Description

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

Band	Antenna Gain [dBi]
	Antenna FCM
LTE Band 2/25	-12.7
NR Band n2/n25	

Table 2-2. Highest Antenna Gain

2.4 Test Support Equipment

Test Support Equipment					
1	Apple Macbook w/AC/DC Adapter	Model: A1398 Model: A1435		S/N: FVFDHG8TP3XY S/N: N/A	
2	Apple USB-C cable w/ Charging Dock w/ Cradle	Model: N/A Model: N/A Model: N/A		S/N: N/A S/N: SAA24DEN24xP2444600777 S/N: SAA24FTN24xP1430200500	
3	Apple Magnetic Charger Apple Magnetic Charger	Model: A2515 Model: A2879		S/N: DLC313306ZQ1NR1A7 S/N: DLCH5T0012A00000WB	
4	Pathfinder Davenport SiP Socket	Model: 920-15901-01 Model: P1 N24X B PF 029		S/N: DLCH640006H0000QA0 S/N: DLCH9T0001J0000UR6	
5	DC Power Supply	Model: KPS3010D		S/N: N/A	

Table 2-3. Test Support Equipment

FCC ID: BCG-A3328	PART 24 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270037-02.BCG	Test Dates: 12/20/2024 - 7/25/2025	EUT Type: Watch		Page 6 of 130

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 and above 18GHz 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.

For LTE transmission, 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.

FCC ID: BCG-A3328	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270037-02.BCG	Test Dates: 12/20/2024 - 7/25/2025	EUT Type: Watch	Page 7 of 130

3.0 DESCRIPTION OF TESTS

3.1 Evaluation 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.

FCC ID: BCG-A3328	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270037-02.BCG	Test Dates: 12/20/2024 - 7/25/2025	EUT Type: Watch	Page 8 of 130

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
Radiated Disturbance (>18GHz)	5.22

FCC ID: BCG-A3328	 element		
Test Report S/N: 1C2503270037-02.BCG	Test Dates: 12/20/2024 - 7/25/2025	EUT Type: Watch	Approved by: Technical Manager

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	MY57212015
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-ZZ	Loop Antenna	5/12/2025	Annual	5/12/2026	100546
Rohde & Schwarz	HFH2-ZZ	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:

1. 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.
2. * denotes passive equipment that has been internally verified/calibrated.

FCC ID: BCG-A3328	PART 24 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270037-02.BCG	Test Dates: 12/20/2024 - 7/25/2025	EUT Type: Watch	Page 10 of 130	

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.

FCC ID: BCG-A3328	 element			PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270037-02.BCG	Test Dates: 12/20/2024 - 7/25/2025	EUT Type: Watch			Page 11 of 130

7.0 TEST RESULTS

7.1 Summary

Company Name: Apple Inc.
 FCC ID: BCG-A3328
 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, 24.238(a)	-13 dBm at Band Edge and for all out-of-band emissions	PASS	Sections 7.3, 7.4
	Peak-Average Ratio	24.232(d)	< 13 dB	PASS	Section 7.5
	Transmitter Conducted Output Power	2.1046	N/A	N/A	See RF Exposure Report
	Frequency Stability	2.1055, 24.235	Fundamental emissions stay within authorized frequency block over the temperature and voltage range as tested	PASS	Section 7.8
	Effective Radiated Power / Equivalent Isotropic Radiated Power	24.232(c)	< 2 Watts max. EIRP	PASS	Section 7.6
RADIATED	Radiated Spurious Emissions	2.1053, 24.238(a)	-13 dBm for all out-of-band emissions	PASS	Section 7.7

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 ports 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 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.

FCC ID: BCG-A3328	 element	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270037-02.BCG	Test Dates: 12/20/2024 - 7/25/2025	EUT Type: Watch		Page 12 of 130

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 x 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

FCC ID: BCG-A3328	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270037-02.BCG	Test Dates: 12/20/2024 - 7/25/2025	EUT Type: Watch	Page 13 of 130

Test Setup

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

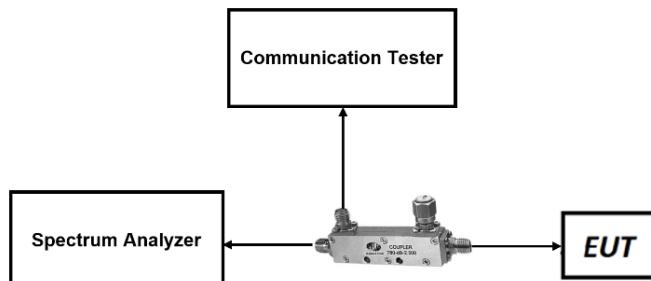


Figure 7-1. LTE Test Instrument & Measurement Setup

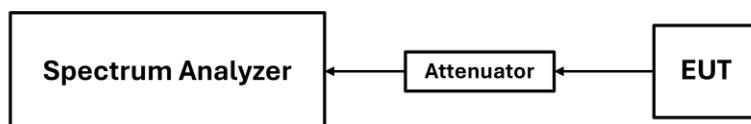


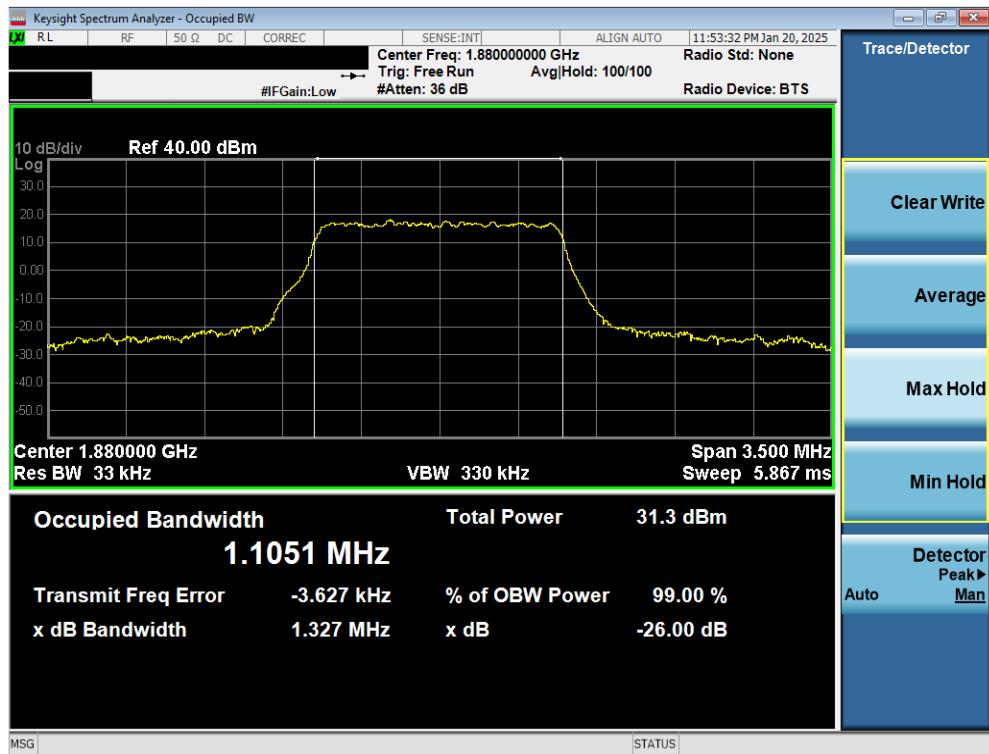
Figure 7-2. FR1 Test Instrument & Measurement Setup

Test Notes

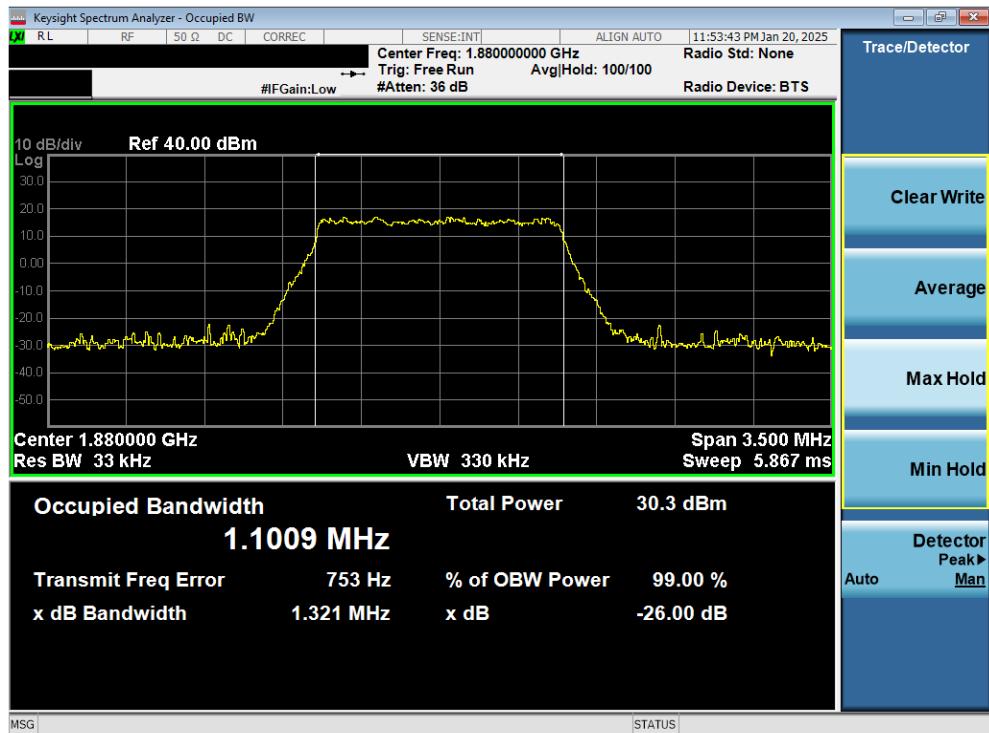
1. For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

FCC ID: BCG-A3328	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270037-02.BCG	Test Dates: 12/20/2024 - 7/25/2025	EUT Type: Watch	Page 14 of 130

LTE Band 25/2

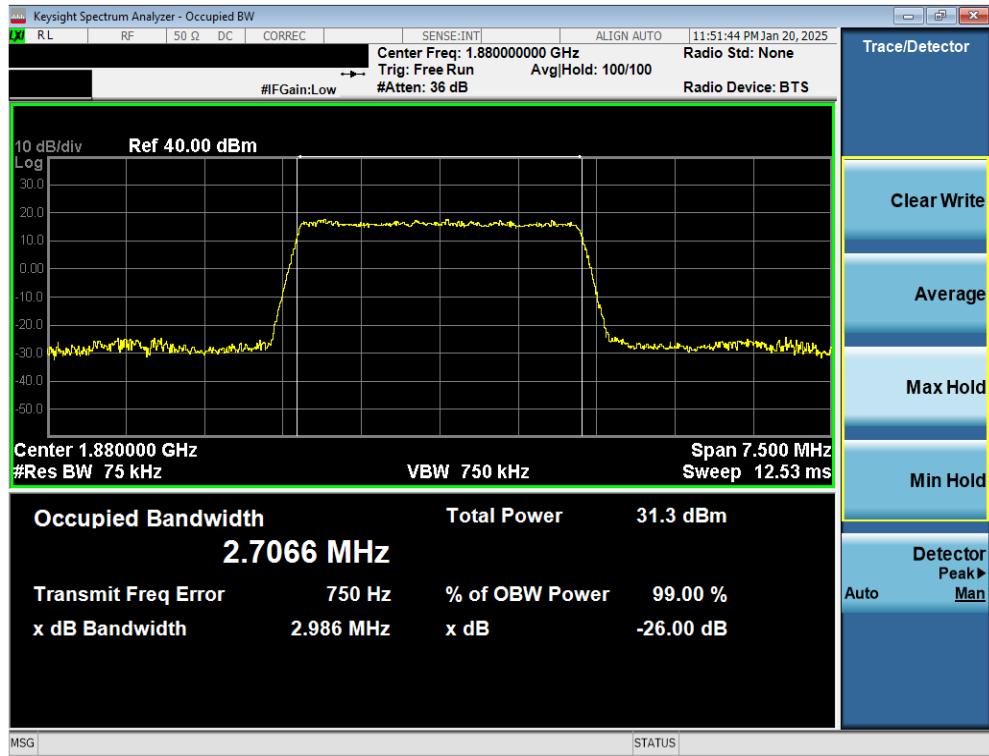


Plot 7-1. Occupied Bandwidth Plot (LTE Band 25/2 - 1.4MHz QPSK - Full RB Configuration)

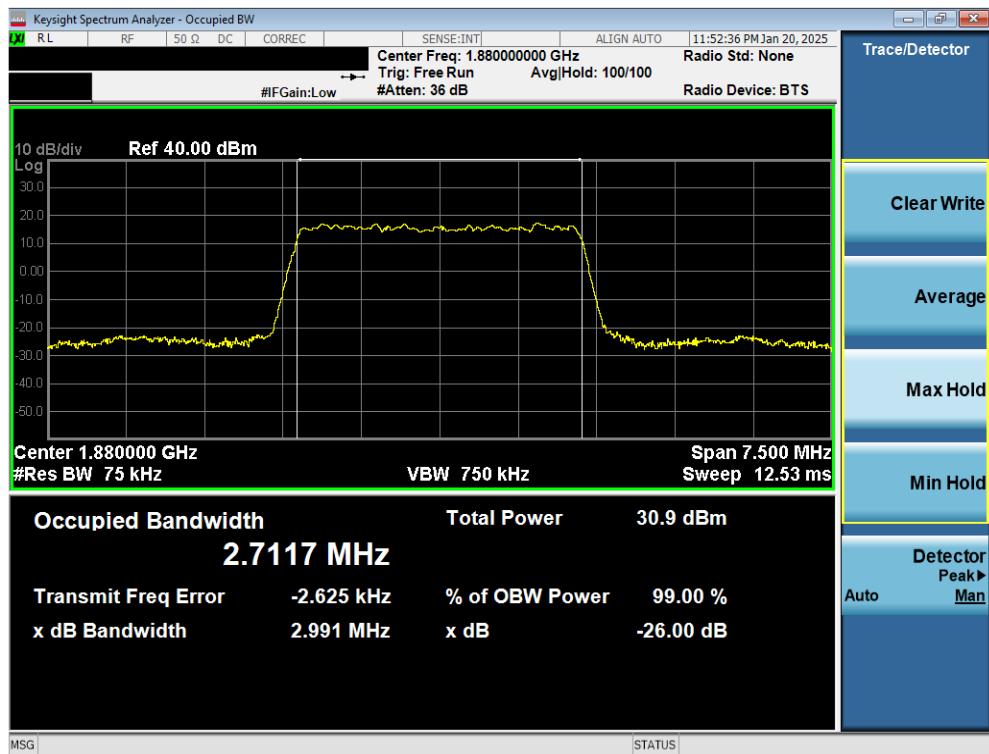


Plot 7-2. Occupied Bandwidth Plot (LTE Band 25/2 - 1.4MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A3328	 element PART 24 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270037-02.BCG	Test Dates: 12/20/2024 - 7/25/2025	EUT Type: Watch		Page 15 of 130

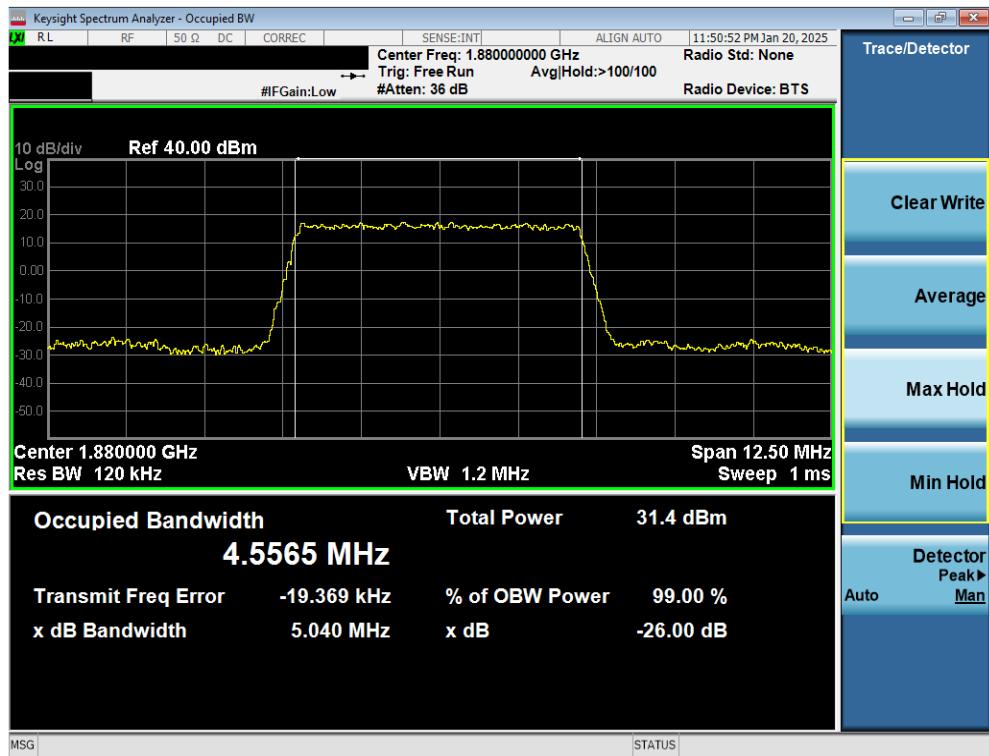


Plot 7-3. Occupied Bandwidth Plot (LTE Band 25/2 - 3MHz QPSK - Full RB Configuration)

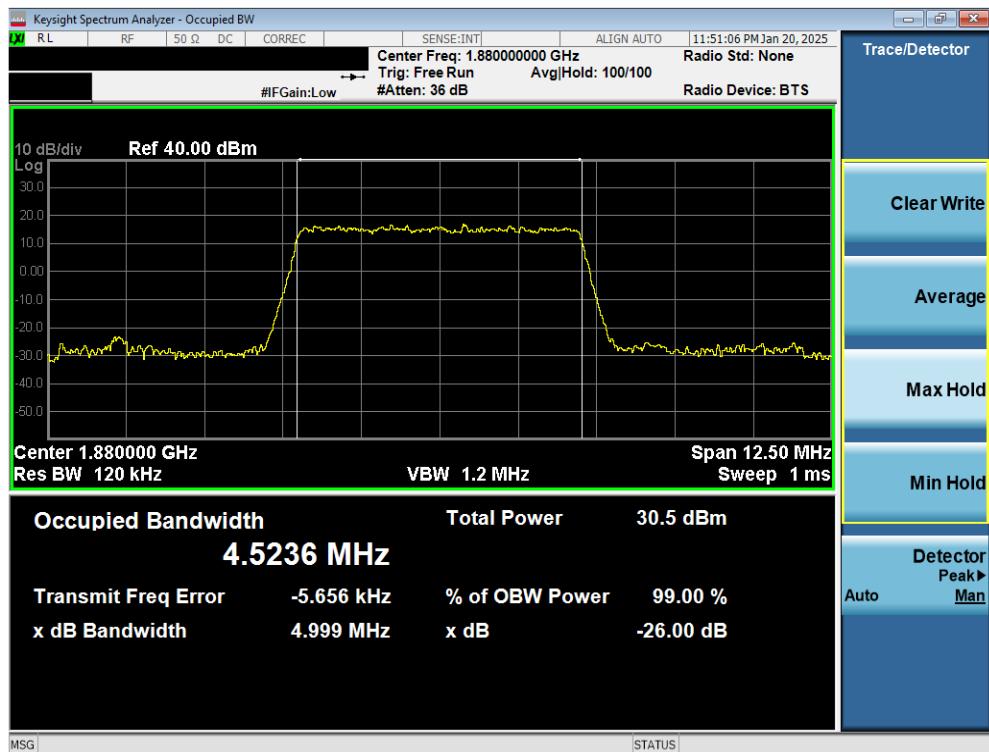


Plot 7-4. Occupied Bandwidth Plot (LTE Band 25/2 - 3MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A3328	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270037-02.BCG	Test Dates: 12/20/2024 - 7/25/2025	EUT Type: Watch	Page 16 of 130

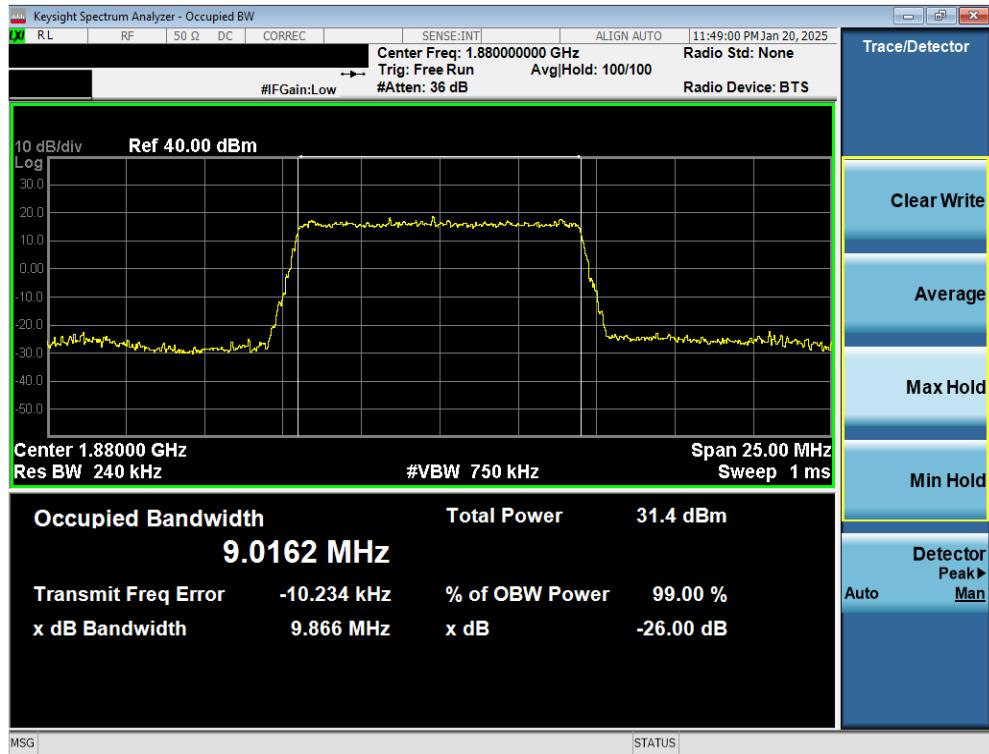


Plot 7-5. Occupied Bandwidth Plot (LTE Band 25/2 - 5MHz QPSK - Full RB Configuration)



Plot 7-6. Occupied Bandwidth Plot (LTE Band 25/2 - 5MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A3328	element PART 24 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270037-02.BCG	Test Dates: 12/20/2024 - 7/25/2025	EUT Type: Watch		Page 17 of 130

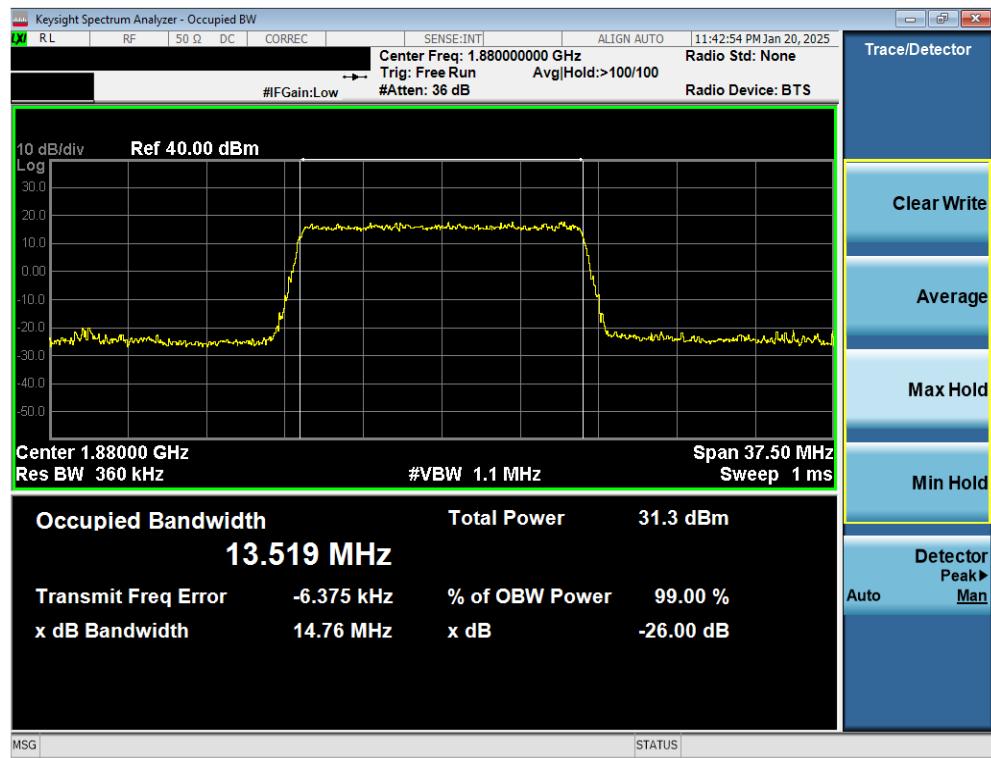


Plot 7-7. Occupied Bandwidth Plot (LTE Band 25/2 - 10MHz QPSK - Full RB Configuration)

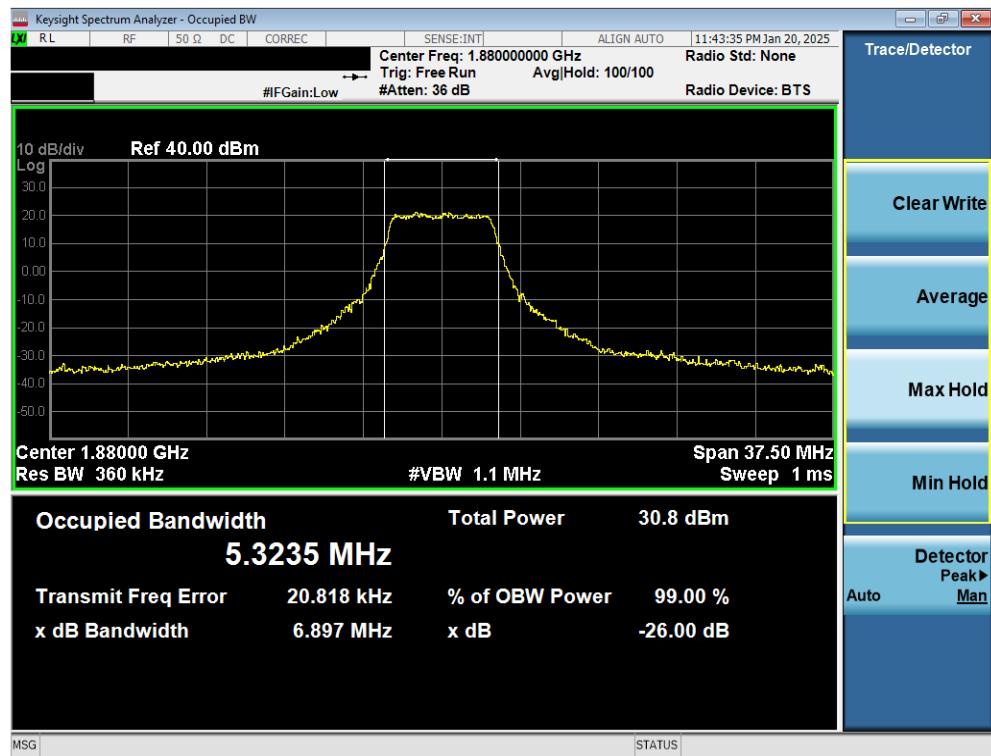


Plot 7-8. Occupied Bandwidth Plot (LTE Band 25/2 - 10MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A3328	PART 24 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270037-02.BCG	Test Dates: 12/20/2024 - 7/25/2025	EUT Type: Watch		Page 18 of 130



Plot 7-9. Occupied Bandwidth Plot (LTE Band 25/2 - 15MHz QPSK - Full RB Configuration)

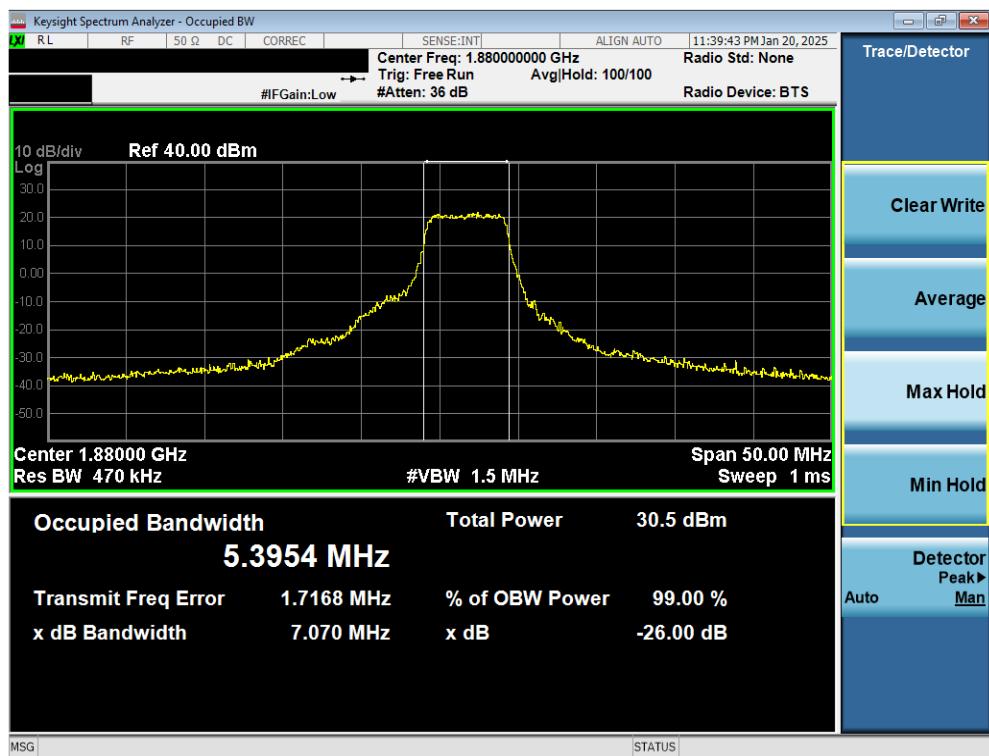


Plot 7-10. Occupied Bandwidth Plot (LTE Band 25/2 - 15MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A3328	 element		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270037-02.BCG	Test Dates: 12/20/2024 - 7/25/2025	EUT Type: Watch		Page 19 of 130



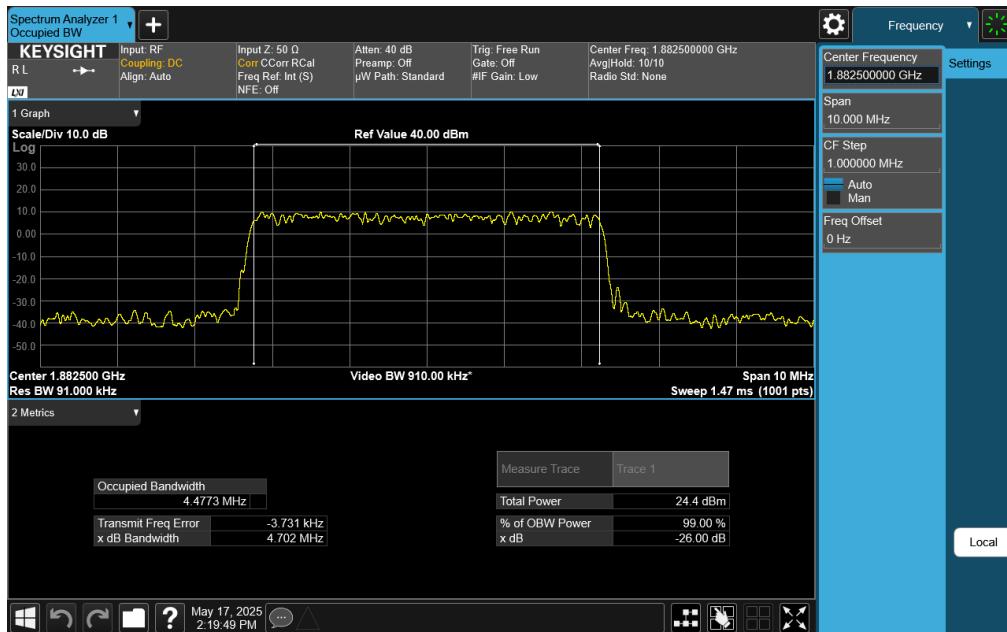
Plot 7-11. Occupied Bandwidth Plot (LTE Band 25/2 - 20MHz QPSK - Full RB Configuration)



Plot 7-12. Occupied Bandwidth Plot (LTE Band 25/2 - 20MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A3328	element		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270037-02.BCG	Test Dates: 12/20/2024 - 7/25/2025	EUT Type: Watch		Page 20 of 130

NR Band n25/n2

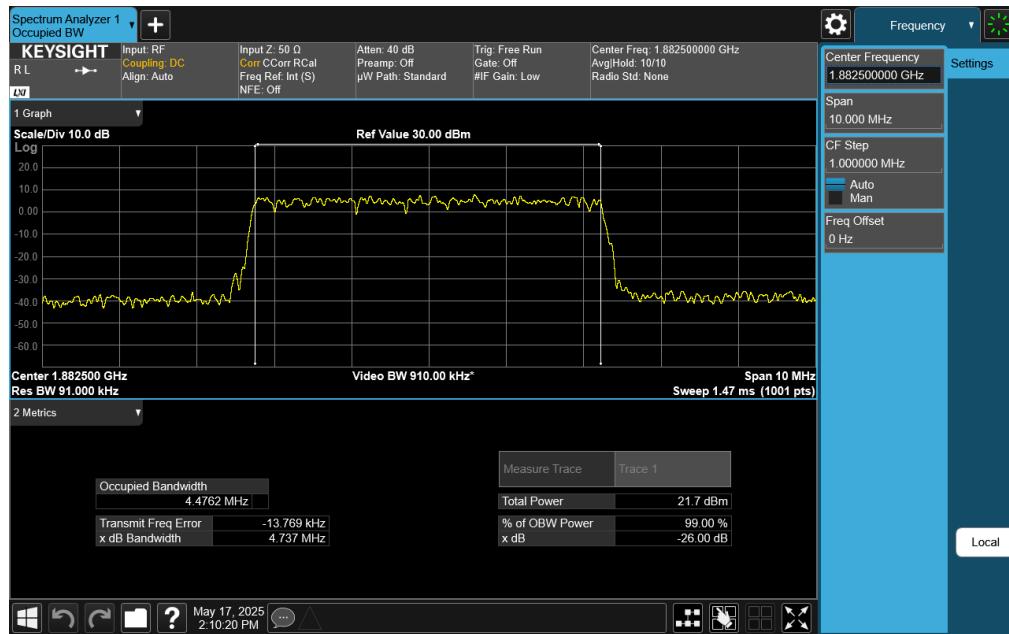


Plot 7-13. Occupied Bandwidth Plot (NR Band n25/n2 - 5.0MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)



Plot 7-14. Occupied Bandwidth Plot (NR Band n25/n2 - 5.0MHz CP-OFDM QPSK - Full RB)

FCC ID: BCG-A3328	 element	PART 24 MEASUREMENT REPORT	
Test Report S/N: 1C2503270037-02.BCG	Test Dates: 12/20/2024 - 7/25/2025	EUT Type: Watch	Approved by: Technical Manager

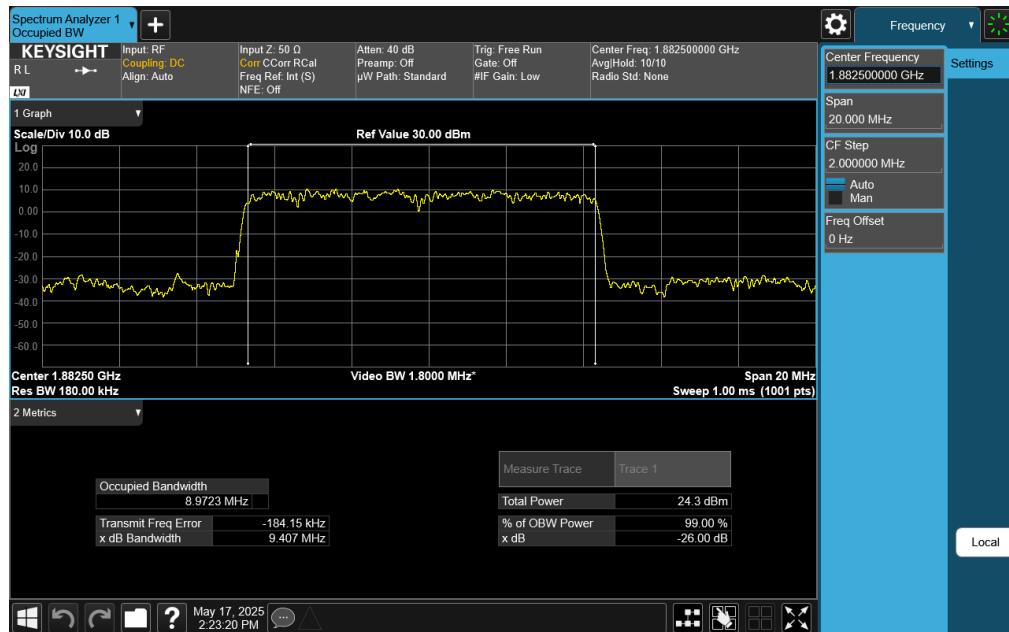


Plot 7-15. Occupied Bandwidth Plot (NR Band n25/n2 - 5.0MHz CP-OFDM 16QAM - Full RB)



Plot 7-16. Occupied Bandwidth Plot (NR Band n25/n2 - 5.0MHz CP-OFDM 64QAM - Full RB)

FCC ID: BCG-A3328	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270037-02.BCG	Test Dates: 12/20/2024 - 7/25/2025	EUT Type: Watch	Page 22 of 130

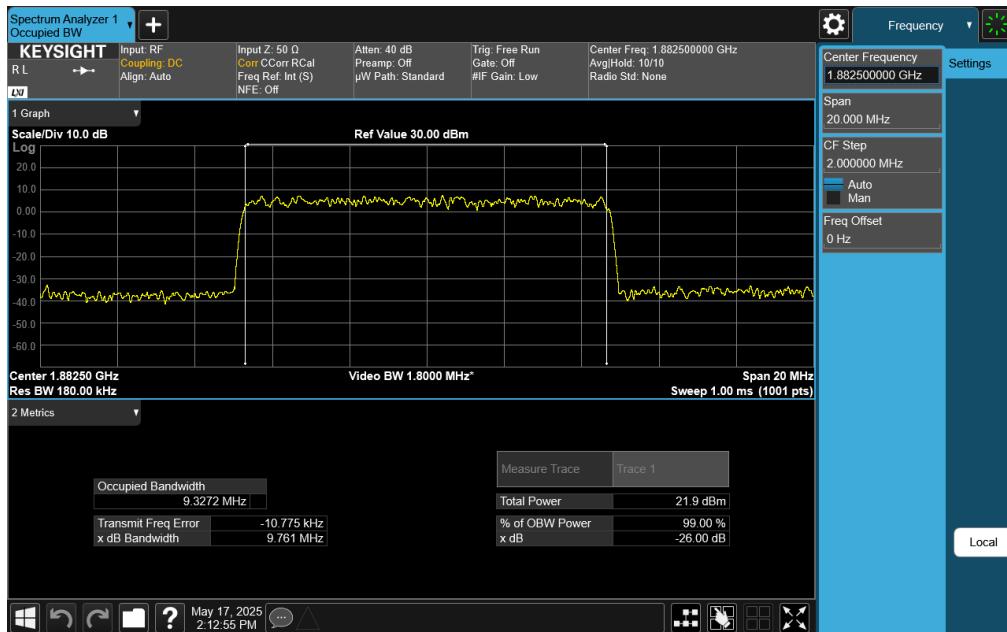


Plot 7-17. Occupied Bandwidth Plot (NR Band n25/n2 - 10.0MHz DFT-s-OFDM π/2 BPSK - Full RB)



Plot 7-18. Occupied Bandwidth Plot (NR Band n25/n2 - 10.0MHz CP-OFDM QPSK - Full RB)

FCC ID: BCG-A3328	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270037-02.BCG	Test Dates: 12/20/2024 - 7/25/2025	EUT Type: Watch	Page 23 of 130

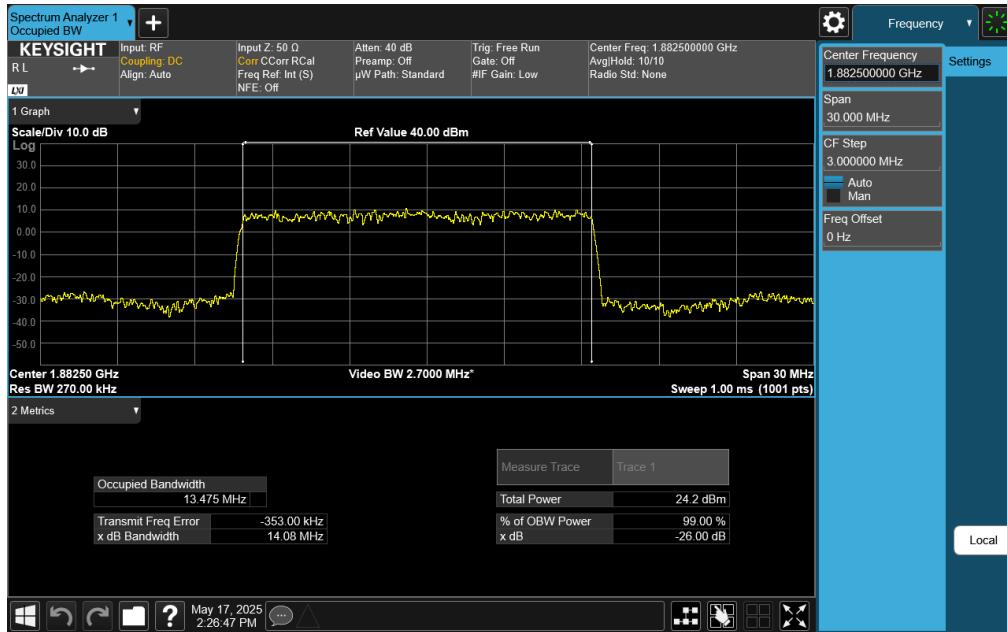


Plot 7-19. Occupied Bandwidth Plot (NR Band n25/n2 - 10.0MHz CP-OFDM 16QAM - Full RB)

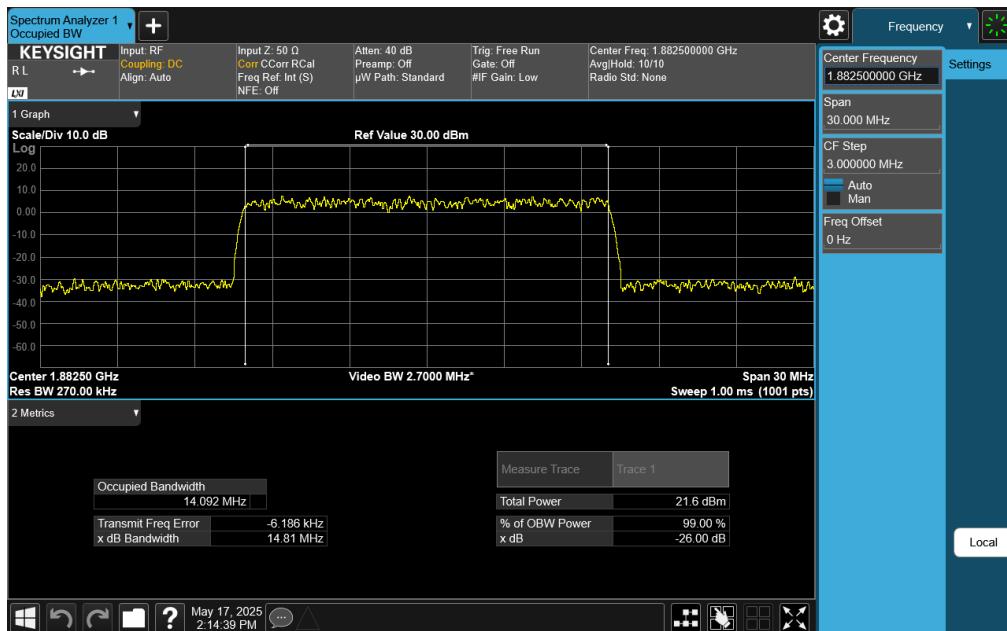


Plot 7-20. Occupied Bandwidth Plot (NR Band n25/n2 - 10.0MHz CP-OFDM 64QAM - Full RB)

FCC ID: BCG-A3328	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270037-02.BCG	Test Dates: 12/20/2024 - 7/25/2025	EUT Type: Watch	Page 24 of 130

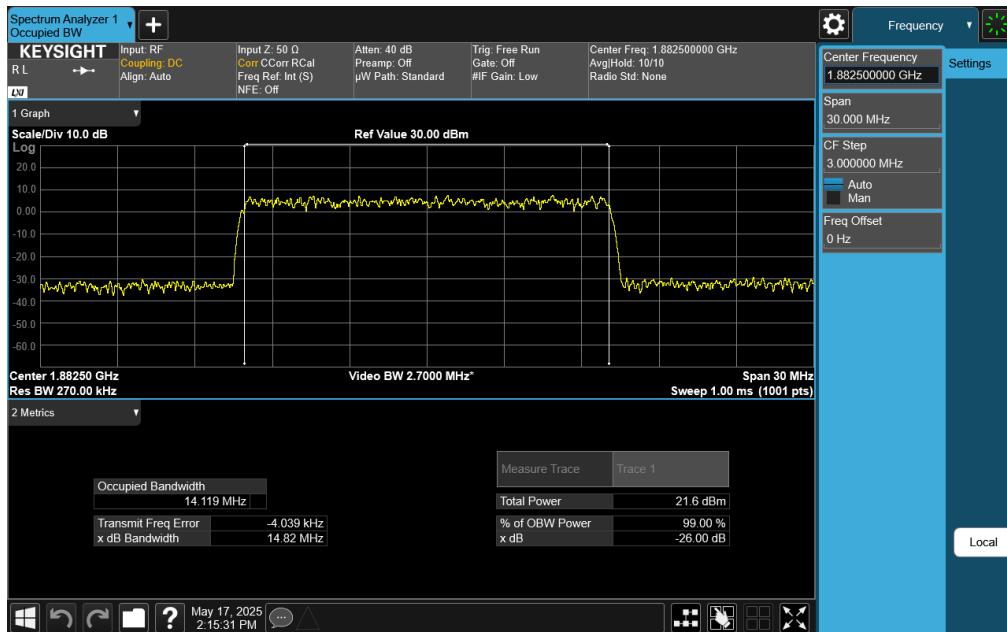


Plot 7-21. Occupied Bandwidth Plot (NR Band n25/n2 - 15.0MHz DFT-s-OFDM π/2 BPSK - Full RB)



Plot 7-22. Occupied Bandwidth Plot (NR Band n25/n2 - 15.0MHz CP-OFDM QPSK - Full RB)

FCC ID: BCG-A3328	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270037-02.BCG	Test Dates: 12/20/2024 - 7/25/2025	EUT Type: Watch	Page 25 of 130

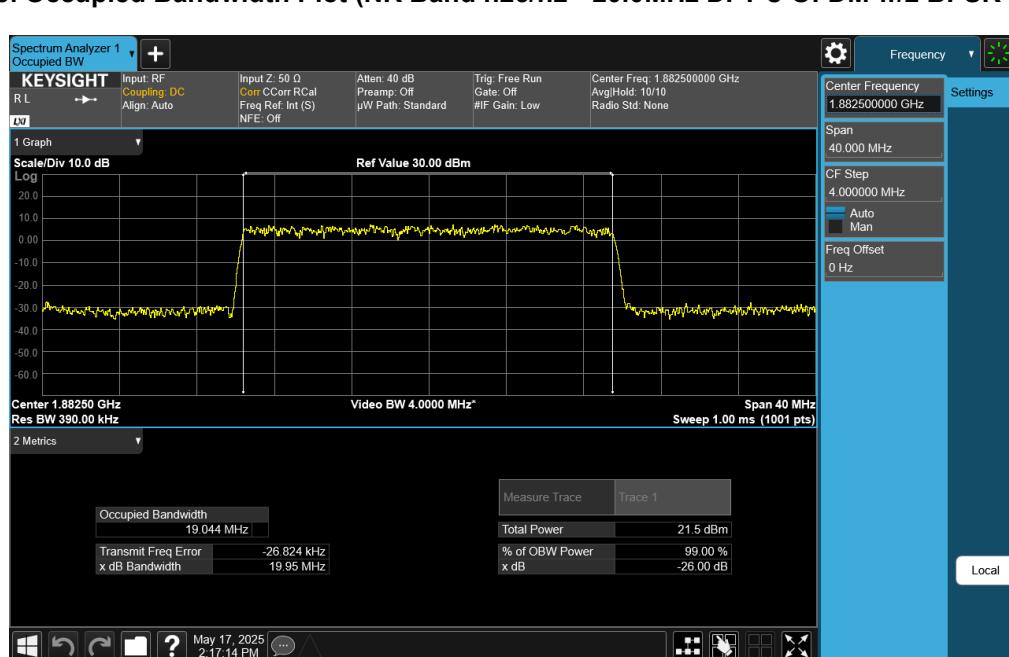
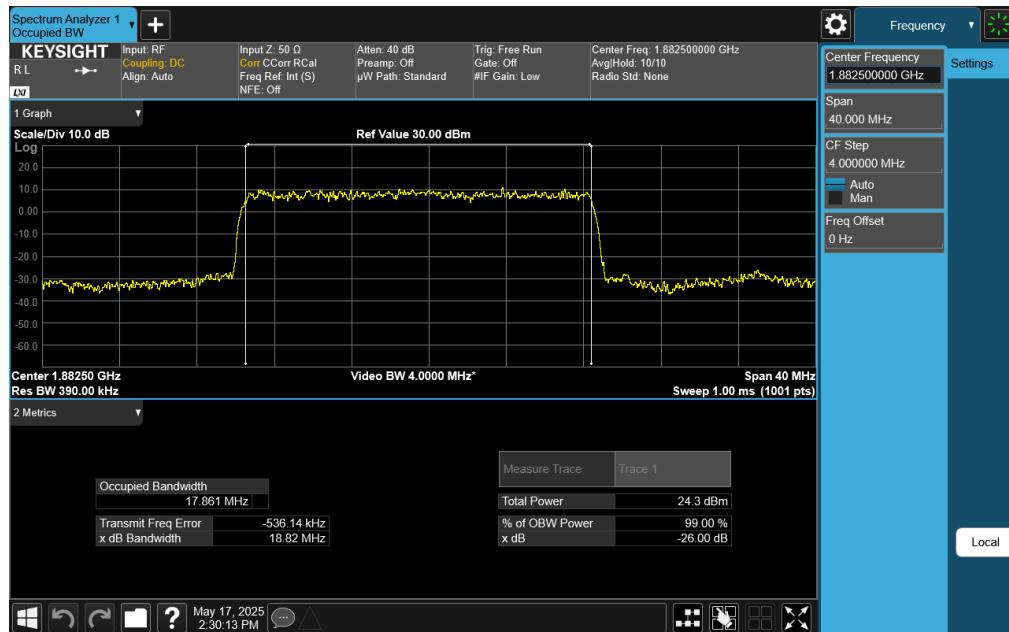


Plot 7-23. Occupied Bandwidth Plot (NR Band n25/n2 - 15.0MHz CP-OFDM 16QAM - Full RB)

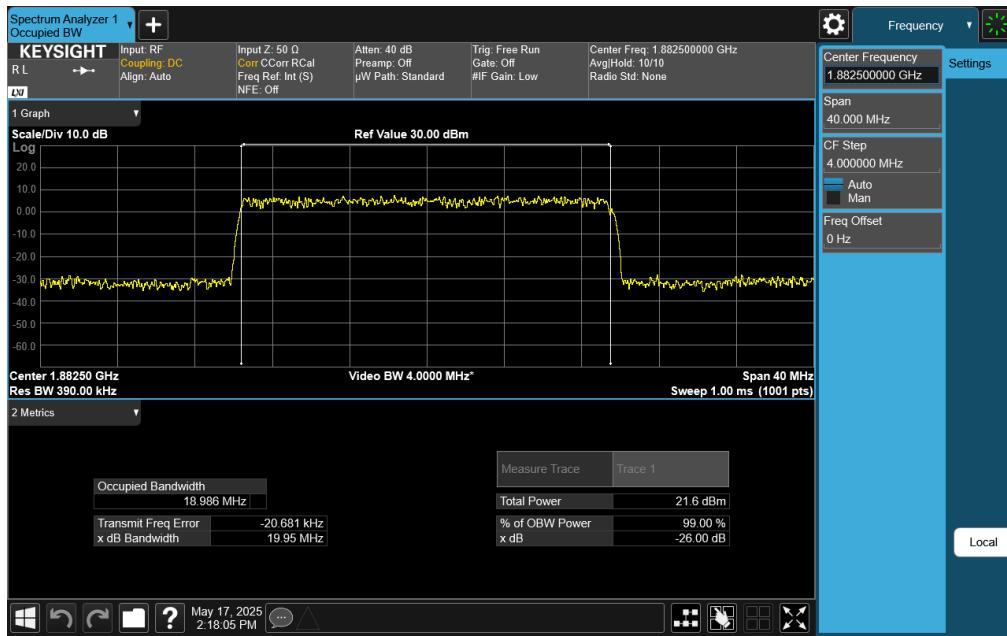


Plot 7-24. Occupied Bandwidth Plot (NR Band n25/n2 - 15.0MHz CP-OFDM 64QAM - Full RB)

FCC ID: BCG-A3328	PART 24 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270037-02.BCG	Test Dates: 12/20/2024 - 7/25/2025	EUT Type: Watch		Page 26 of 130



FCC ID: BCG-A3328	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270037-02.BCG	Test Dates: 12/20/2024 - 7/25/2025	EUT Type: Watch	Page 27 of 130



Plot 7-27. Occupied Bandwidth Plot (NR Band n25/n2 - 20.0MHz CP-OFDM 16QAM - Full RB)



Plot 7-28. Occupied Bandwidth Plot (NR Band n25/n2 - 20.0MHz CP-OFDM 64QAM - Full RB)

FCC ID: BCG-A3328	PART 24 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270037-02.BCG	Test Dates: 12/20/2024 - 7/25/2025	EUT Type: Watch		Page 28 of 130

7.3 Spurious and Harmonic Emissions at Antenna Terminal

§2.1051, §24.238(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 20GHz (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.

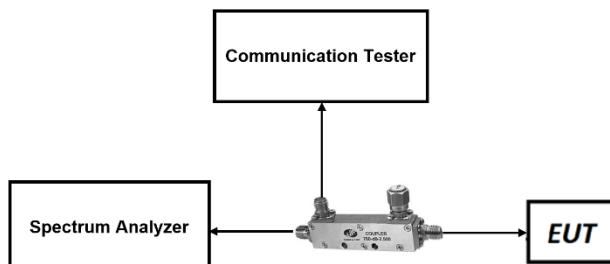


Figure 7-3. LTE Test Instrument & Measurement Setup

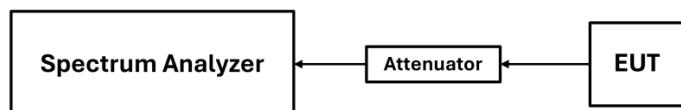


Figure 7-4. FR1 Test Instrument & Measurement Setup

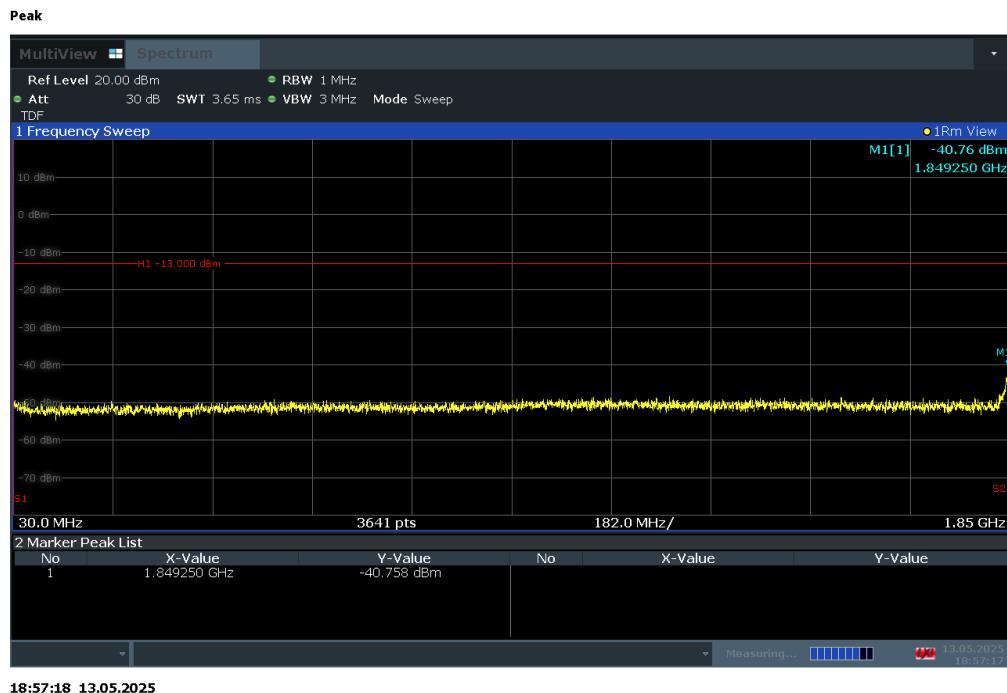
FCC ID: BCG-A3328	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270037-02.BCG	Test Dates: 12/20/2024 - 7/25/2025	EUT Type: Watch	Page 29 of 130

Test Notes

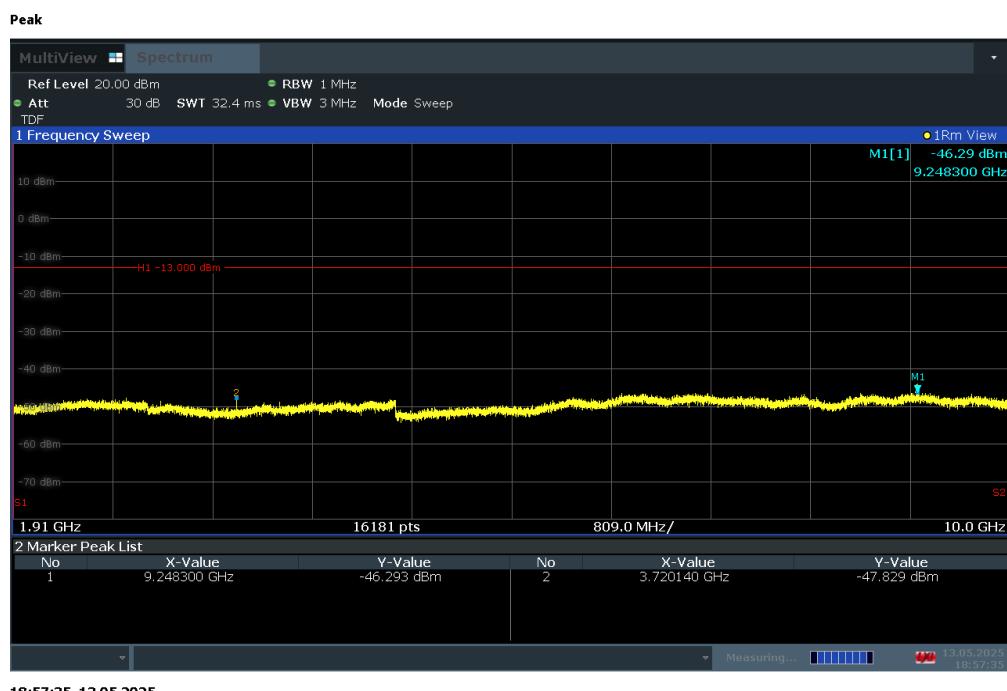
1. Per Part 24, compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth 100 kHz or greater for measurements below 1GHz. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least 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.
3. NR band n25 overlaps the entire frequency range of NR band 2. Therefore, the conducted emissions data of NR band n25 provided in this report covers NR band n2.

FCC ID: BCG-A3328	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270037-02.BCG	Test Dates: 12/20/2024 - 7/25/2025	EUT Type: Watch	Page 30 of 130

LTE Band 25/2

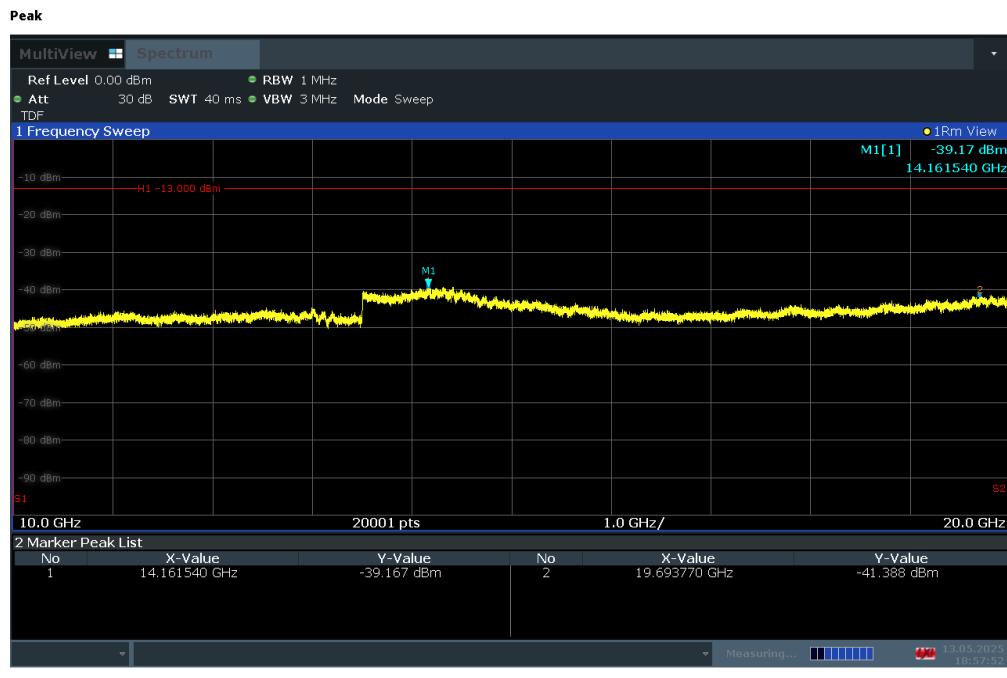


Plot 7-29. Conducted Spurious Plot (LTE Band 25/2 - 20MHz QPSK - RB Size 1, RB Offset 50 - Low Channel)

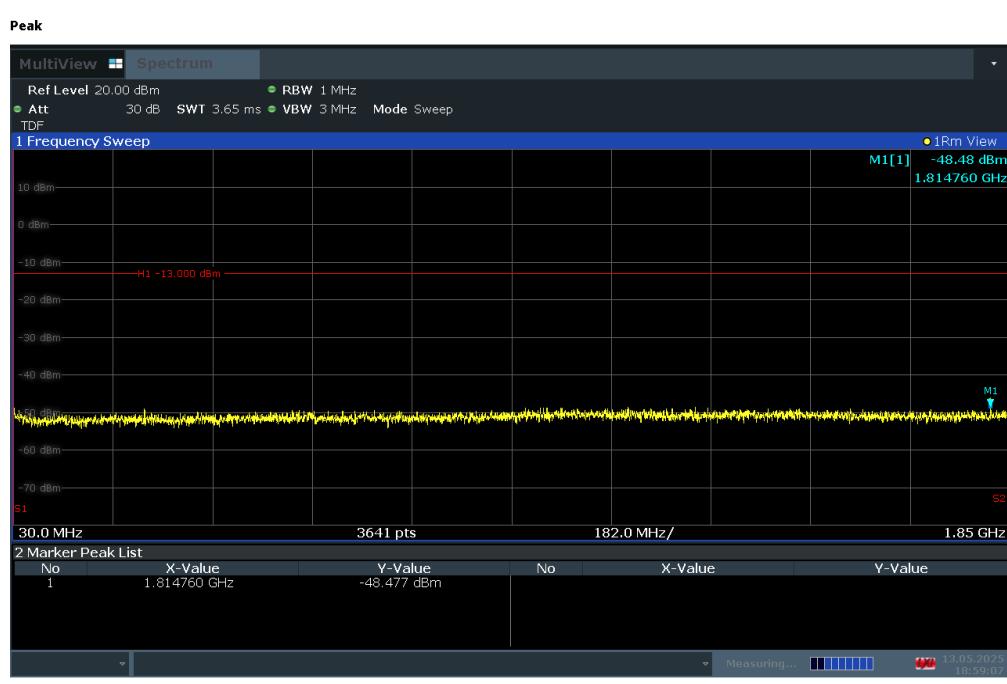


Plot 7-30. Conducted Spurious Plot (LTE Band 25/2 - 20MHz QPSK - RB Size 1, RB Offset 50 - Low Channel)

FCC ID: BCG-A3328	element		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270037-02.BCG	Test Dates: 12/20/2024 - 7/25/2025	EUT Type: Watch		Page 31 of 130

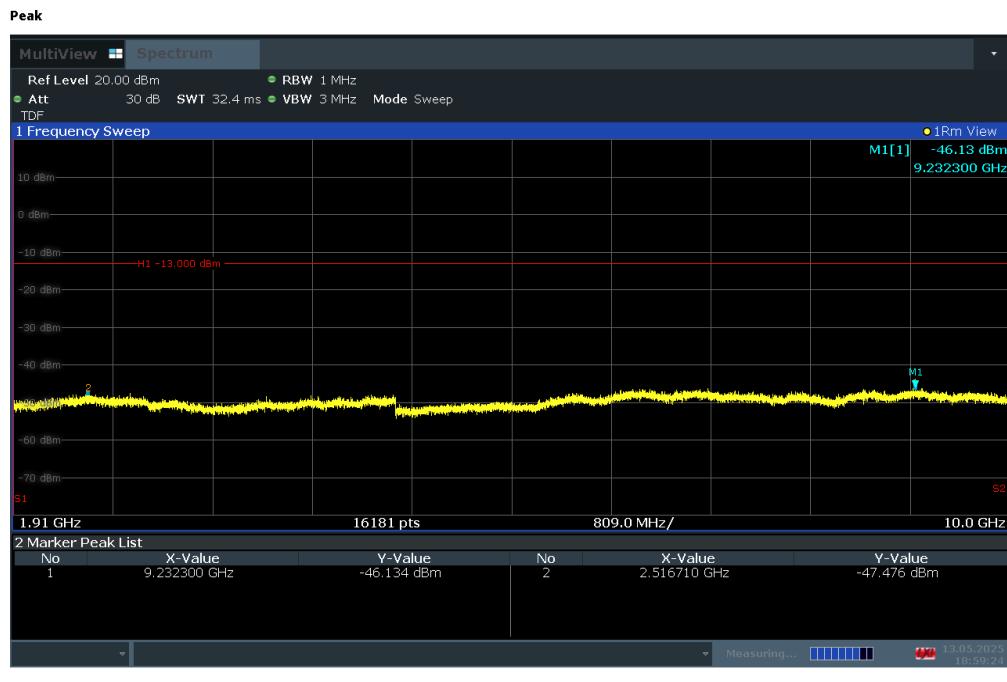


Plot 7-31. Conducted Spurious Plot (LTE Band 25/2 - 20MHz QPSK - RB Size 1, RB Offset 50 - Low Channel)

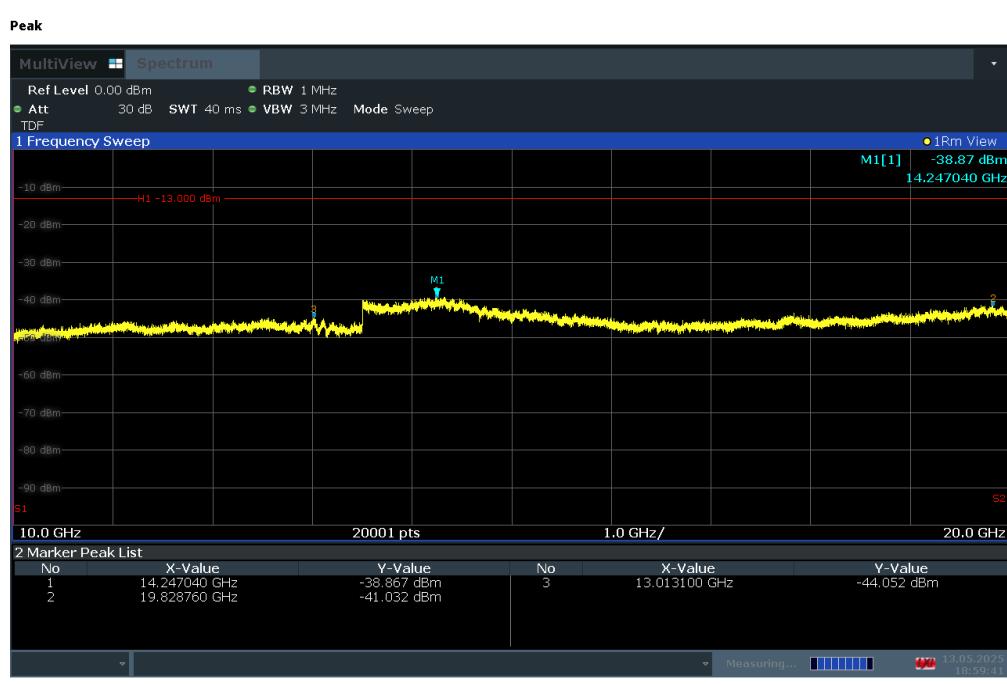


Plot 7-32. Conducted Spurious Plot (LTE Band 25/2 - 20MHz QPSK - RB Size 1, RB Offset 50 - Mid Channel)

FCC ID: BCG-A3328	 element PART 24 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270037-02.BCG	Test Dates: 12/20/2024 - 7/25/2025	EUT Type: Watch		Page 32 of 130

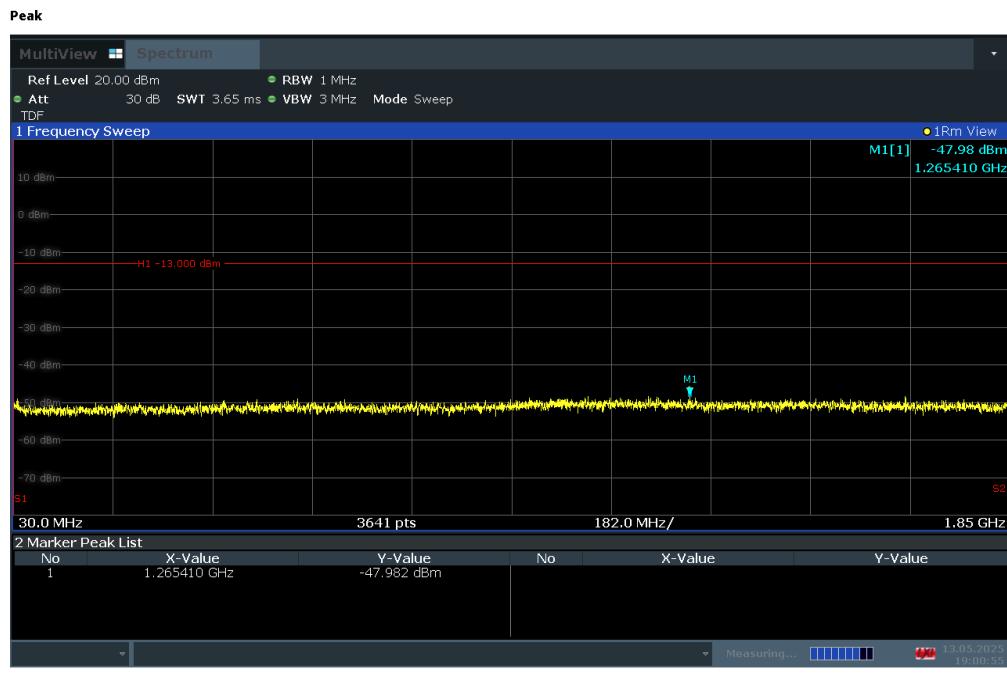


Plot 7-33. Conducted Spurious Plot (LTE Band 25/2 - 20MHz QPSK - RB Size 1, RB Offset 50 - Mid Channel)

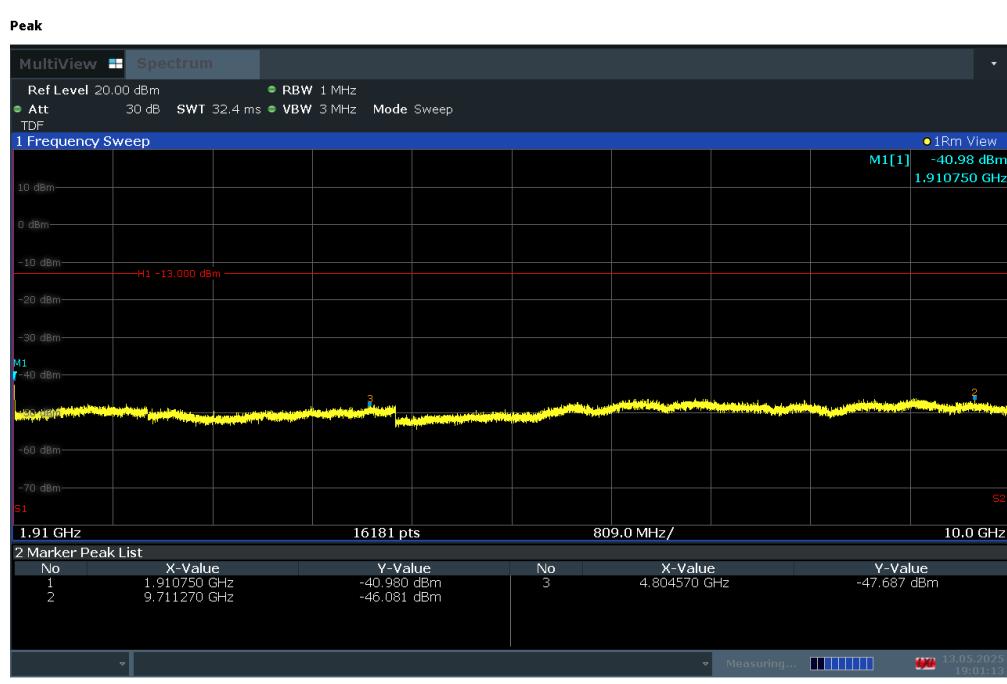


Plot 7-34. Conducted Spurious Plot (LTE Band 25/2 - 20MHz QPSK - RB Size 1, RB Offset 50 - Mid Channel)

FCC ID: BCG-A3328	element PART 24 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270037-02.BCG	Test Dates: 12/20/2024 - 7/25/2025	EUT Type: Watch		Page 33 of 130

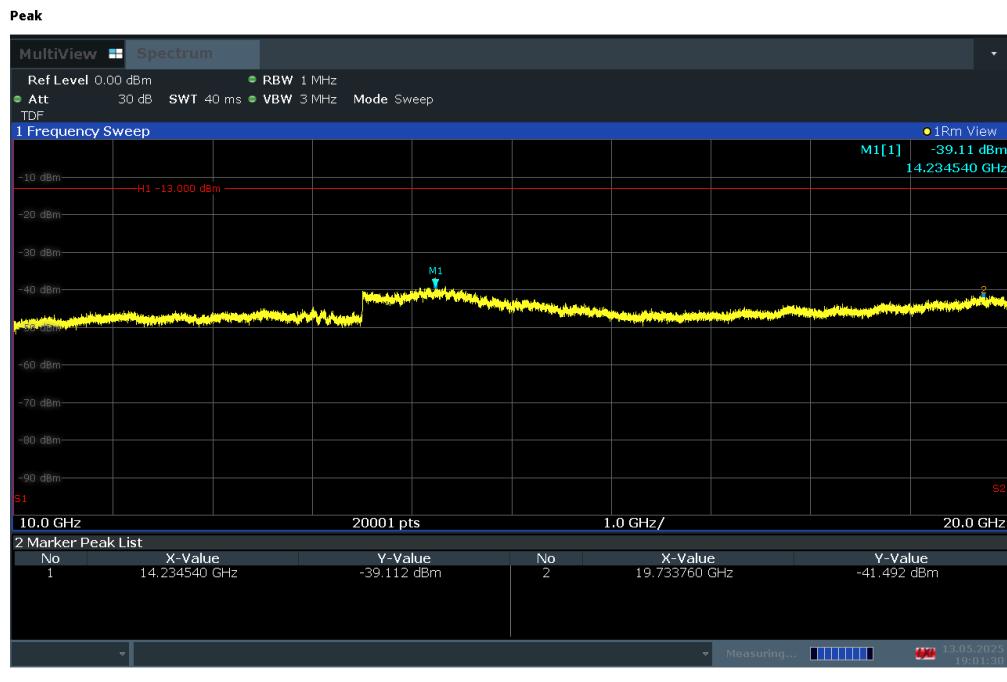


Plot 7-35. Conducted Spurious Plot (LTE Band 25/2 - 20MHz QPSK - RB Size 1, RB Offset 50 - High Channel)



Plot 7-36. Conducted Spurious Plot (LTE Band 25/2 - 20MHz QPSK - RB Size 1, RB Offset 50 - High Channel)

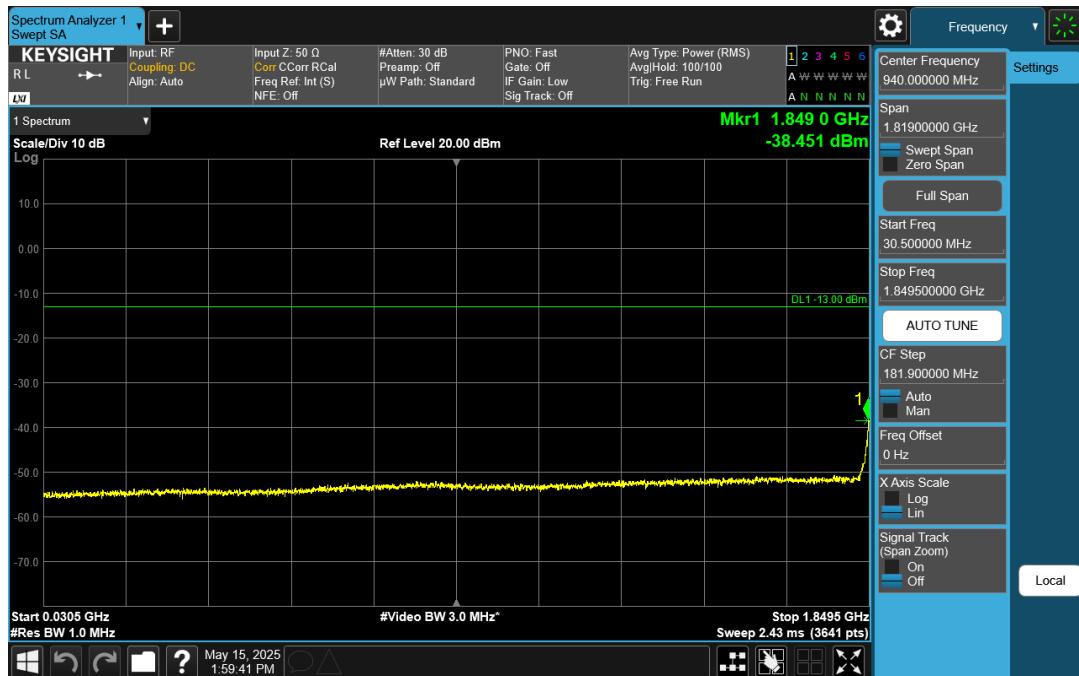
FCC ID: BCG-A3328	 element PART 24 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270037-02.BCG	Test Dates: 12/20/2024 - 7/25/2025	EUT Type: Watch	Page 34 of 130	



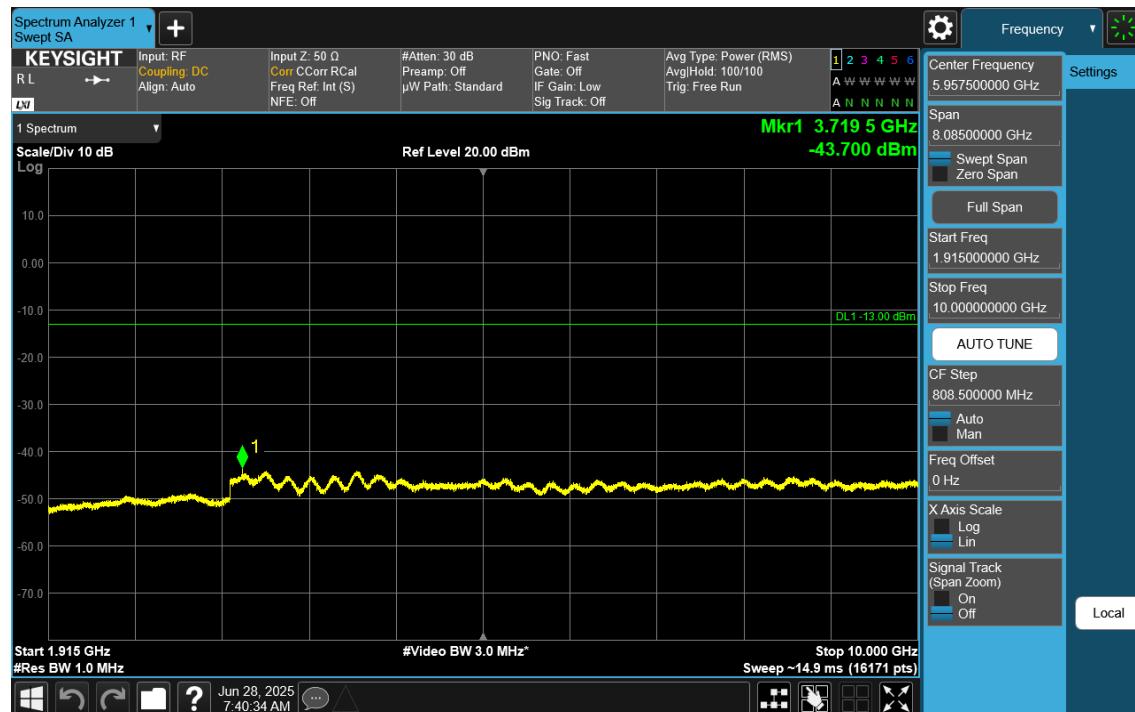
Plot 7-37. Conducted Spurious Plot (LTE Band 25/2 - 20MHz QPSK - RB Size 1, RB Offset 50 - High Channel)

FCC ID: BCG-A3328	PART 24 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270037-02.BCG	Test Dates: 12/20/2024 - 7/25/2025	EUT Type: Watch		Page 35 of 130

NR Band n25/n2

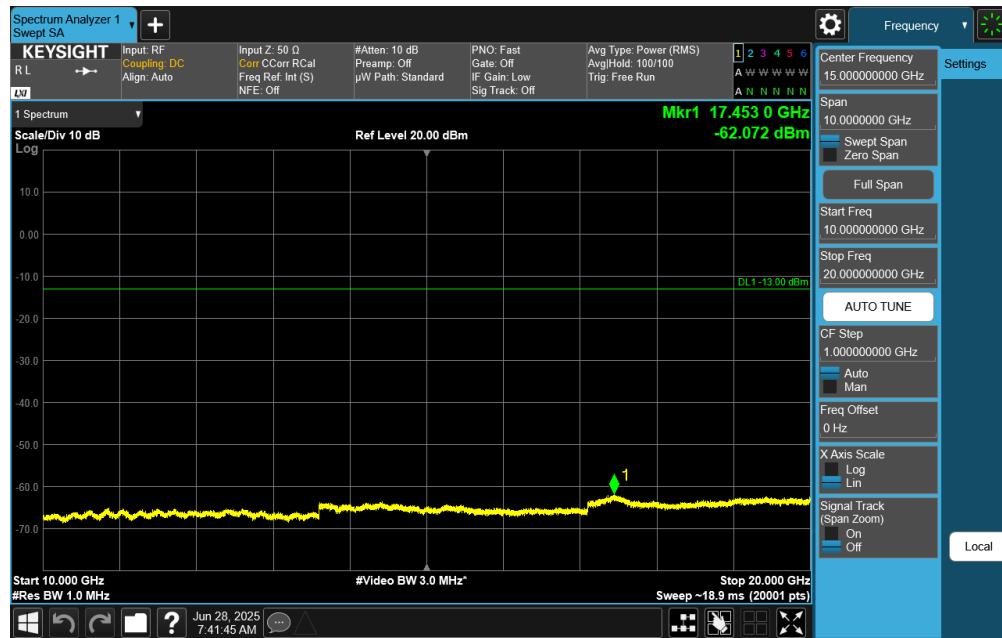


Plot 7-38. Conducted Spurious Plot (NR Band n25/n2 - 20.0MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 50 - Low Channel)

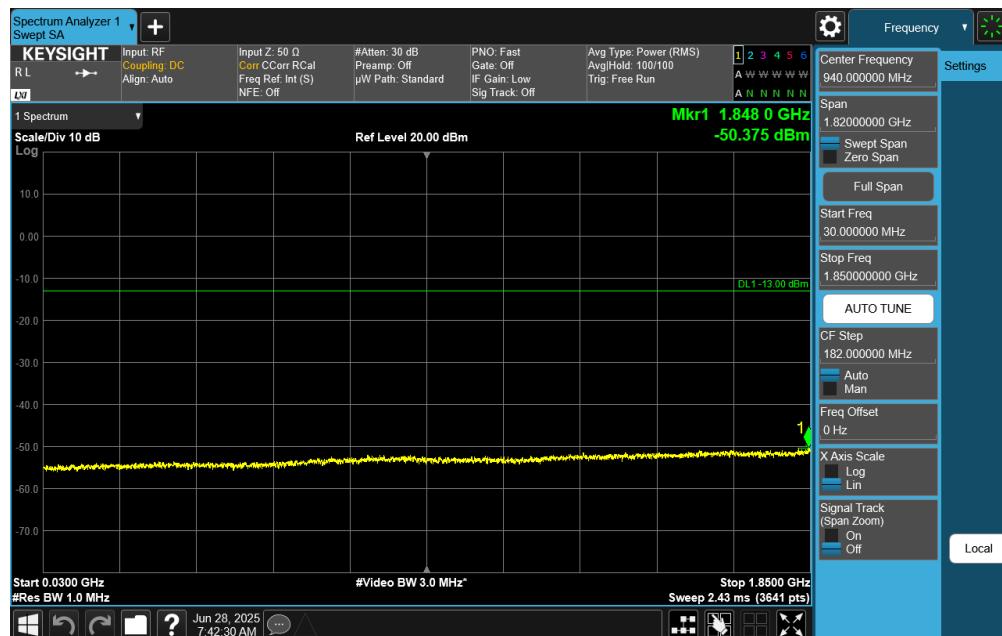


Plot 7-39. Conducted Spurious Plot (NR Band n25/n2 - 20.0MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 50 - Low Channel)

FCC ID: BCG-A3328	element PART 24 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270037-02.BCG	Test Dates: 12/20/2024 - 7/25/2025	EUT Type: Watch		Page 36 of 130



Plot 7-40. Conducted Spurious Plot (NR Band n25/n2 - 20.0MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 50 - Low Channel)



Plot 7-41. Conducted Spurious Plot (NR Band n25/n2 - 20.0MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 50 - Mid Channel)

FCC ID: BCG-A3328	PART 24 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270037-02.BCG	Test Dates: 12/20/2024 - 7/25/2025	EUT Type: Watch		Page 37 of 130

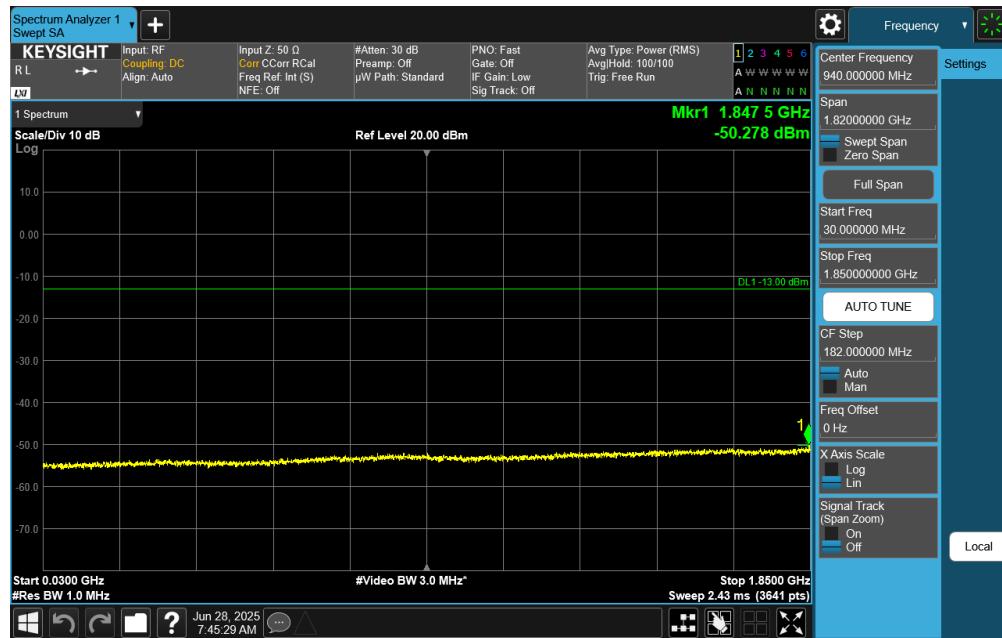


Plot 7-42. Conducted Spurious Plot (NR Band n25/n2 - 20.0MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 50 - Mid Channel)

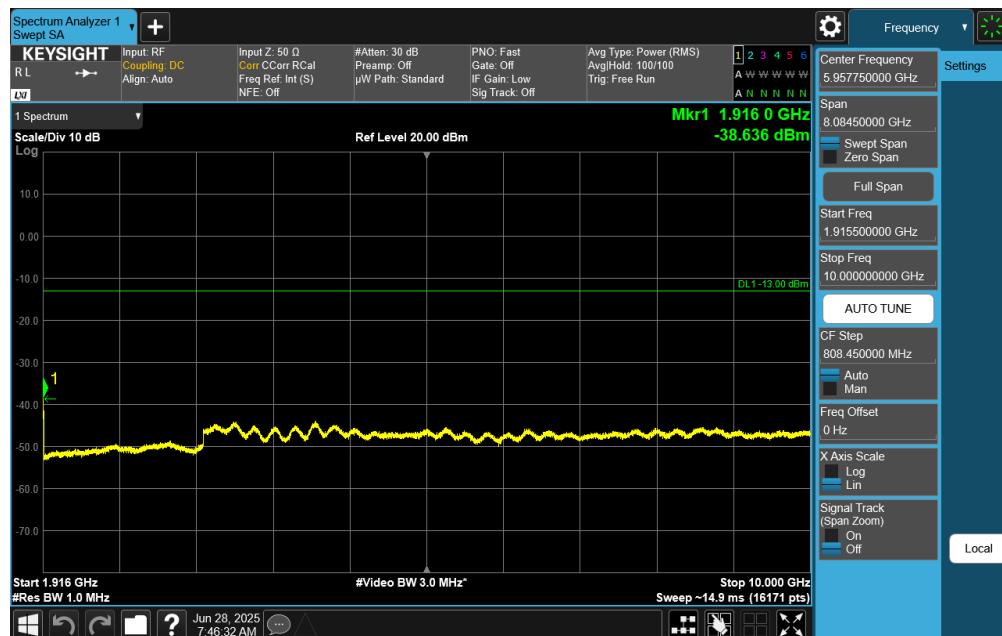


Plot 7-43. Conducted Spurious Plot (NR Band n25/n2 - 20.0MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 50 - Mid Channel)

FCC ID: BCG-A3328	PART 24 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270037-02.BCG	Test Dates: 12/20/2024 - 7/25/2025	EUT Type: Watch		Page 38 of 130

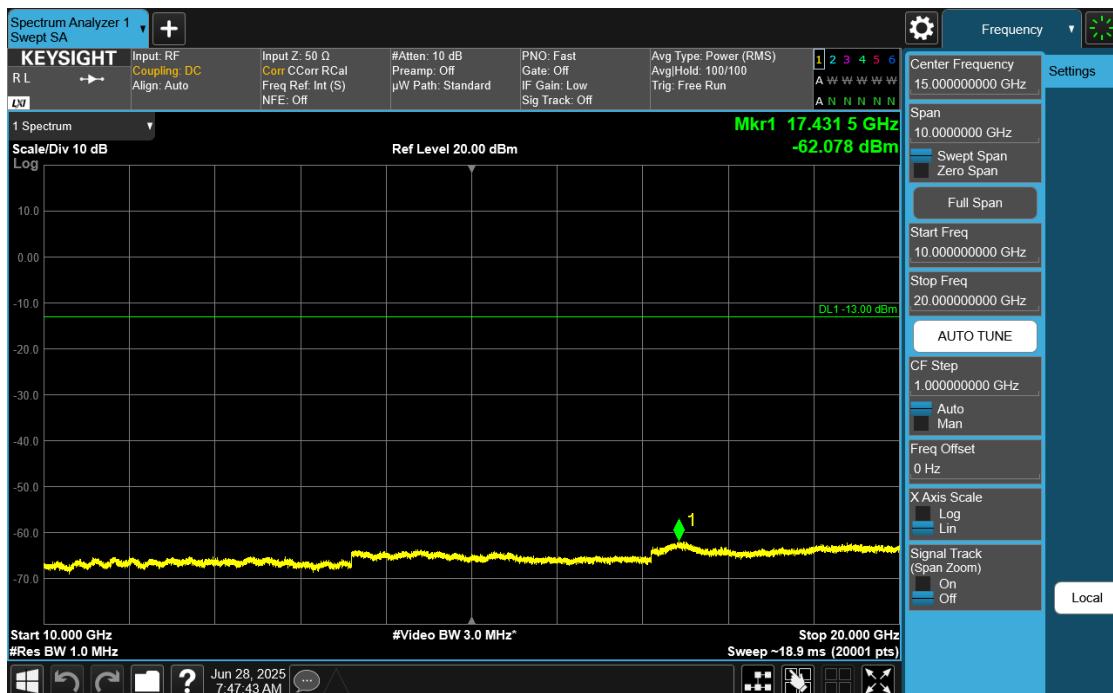


Plot 7-44. Conducted Spurious Plot (NR Band n25/n2 - 20.0MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 50 - High Channel)



Plot 7-45. Conducted Spurious Plot (NR Band n25/n2 - 20.0MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 50 - High Channel)

FCC ID: BCG-A3328	PART 24 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270037-02.BCG	Test Dates: 12/20/2024 - 7/25/2025	EUT Type: Watch		Page 39 of 130



Plot 7-46. Conducted Spurious Plot (NR Band n25/n2 - 20.0MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 50 - High Channel)

FCC ID: BCG-A3328	PART 24 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270037-02.BCG	Test Dates: 12/20/2024 - 7/25/2025	EUT Type: Watch		Page 40 of 130

7.4 Band Edge Emissions at Antenna Terminal

§2.1051, §24.238(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 $43 + 10 \log_{10}(P_{[Watts]})$, 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. RBW $\geq 1\%$ of the emission bandwidth
4. VBW $\geq 3 \times$ RBW
5. Detector = RMS
6. Number of sweep points $\geq 2 \times$ Span/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

FCC ID: BCG-A3328	PART 24 MEASUREMENT REPORT		
Test Report S/N: 1C2503270037-02.BCG	Test Dates: 12/20/2024 - 7/25/2025	EUT Type: Watch	Approved by: Technical Manager Page 41 of 130

Test Setup

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

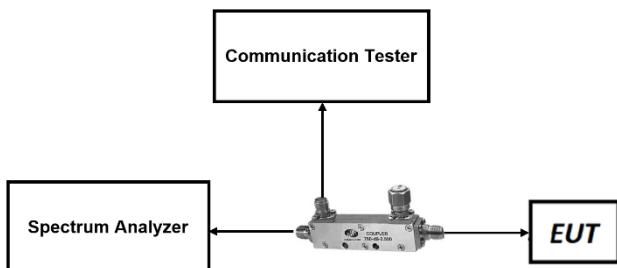


Figure 7-5. LTE Test Instrument & Measurement Setup

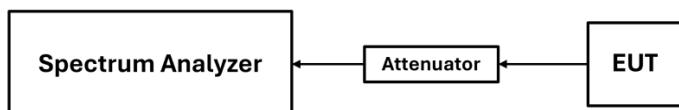


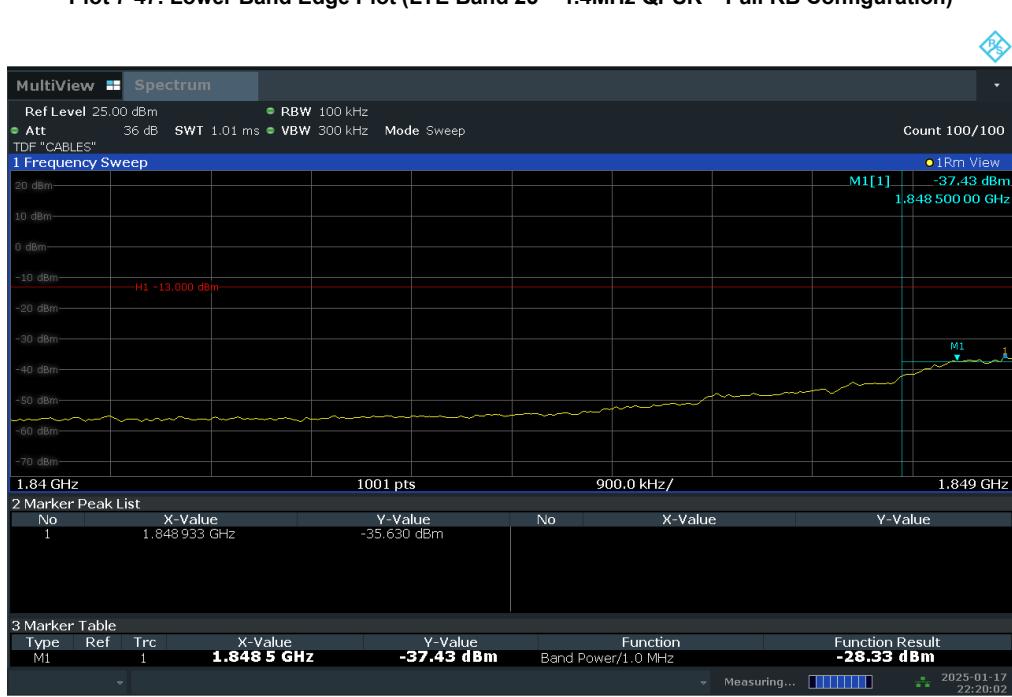
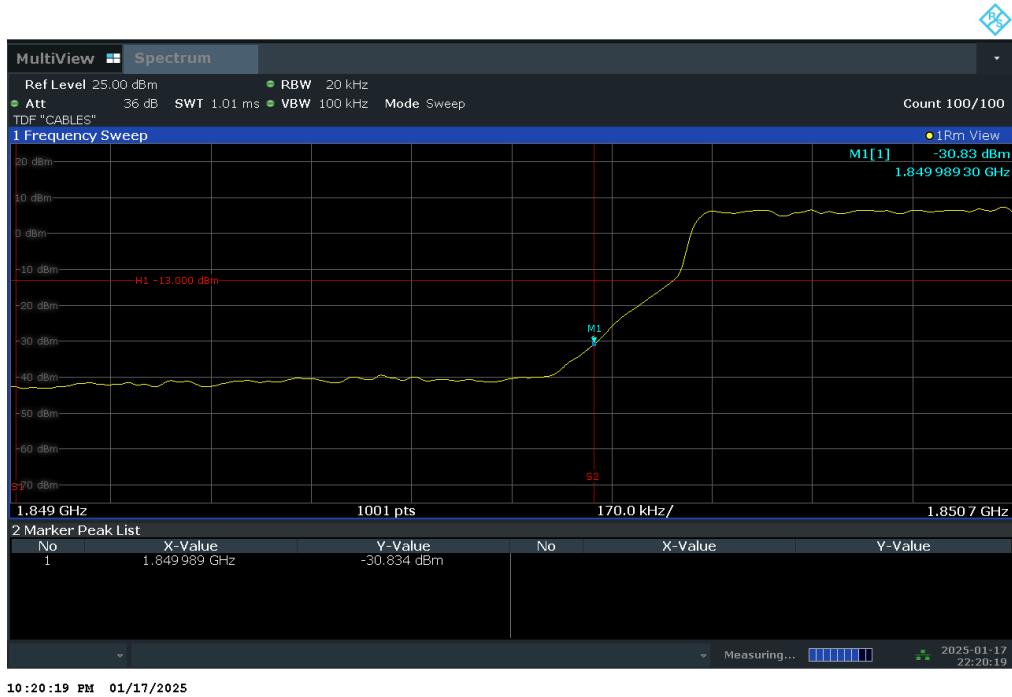
Figure 7-6. FR1 Test Instrument & Measurement Setup

Test Notes

1. Per 24.238(a), 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.

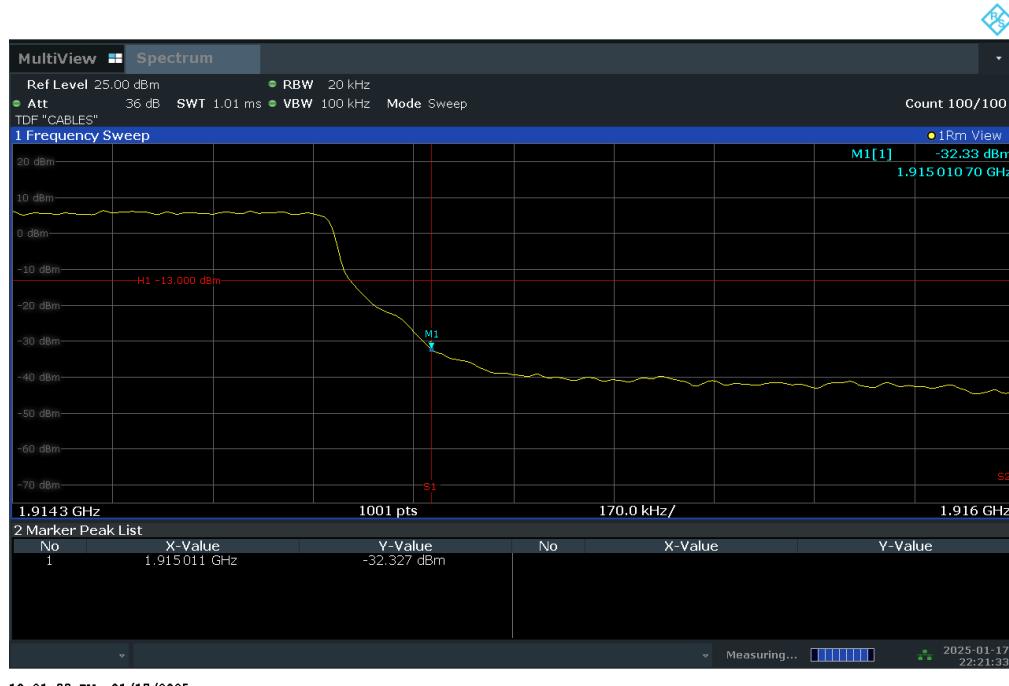
FCC ID: BCG-A3328	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270037-02.BCG	Test Dates: 12/20/2024 - 7/25/2025	EUT Type: Watch	Page 42 of 130

LTE Band 25

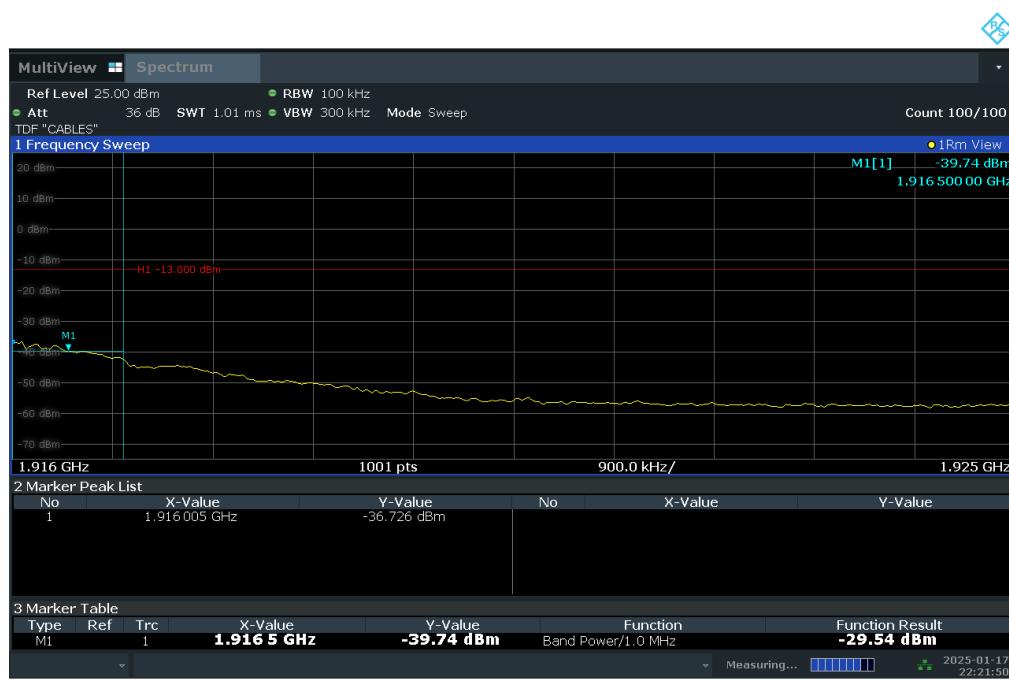


Plot 7-48. Extended Lower Band Edge Plot (LTE Band 25 – 1.4MHz QPSK – Full RB Configuration)

FCC ID: BCG-A3328	PART 24 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270037-02.BCG	Test Dates: 12/20/2024 - 7/25/2025	EUT Type: Watch		Page 43 of 130

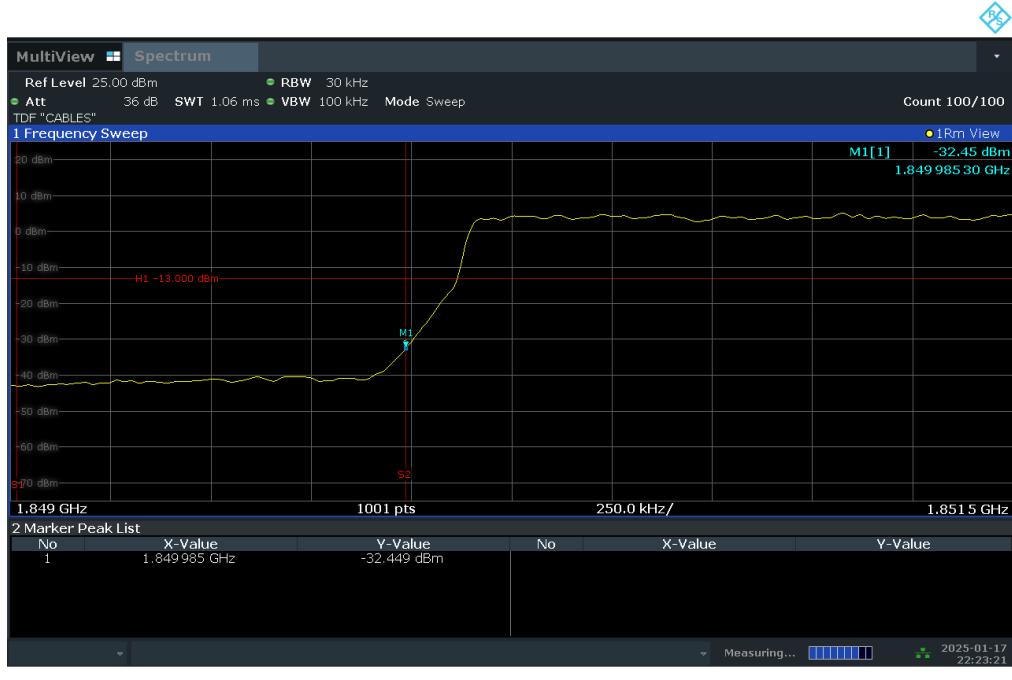


Plot 7-49. Upper Band Edge Plot (LTE Band 25 – 1.4MHz QPSK – Full RB Configuration)

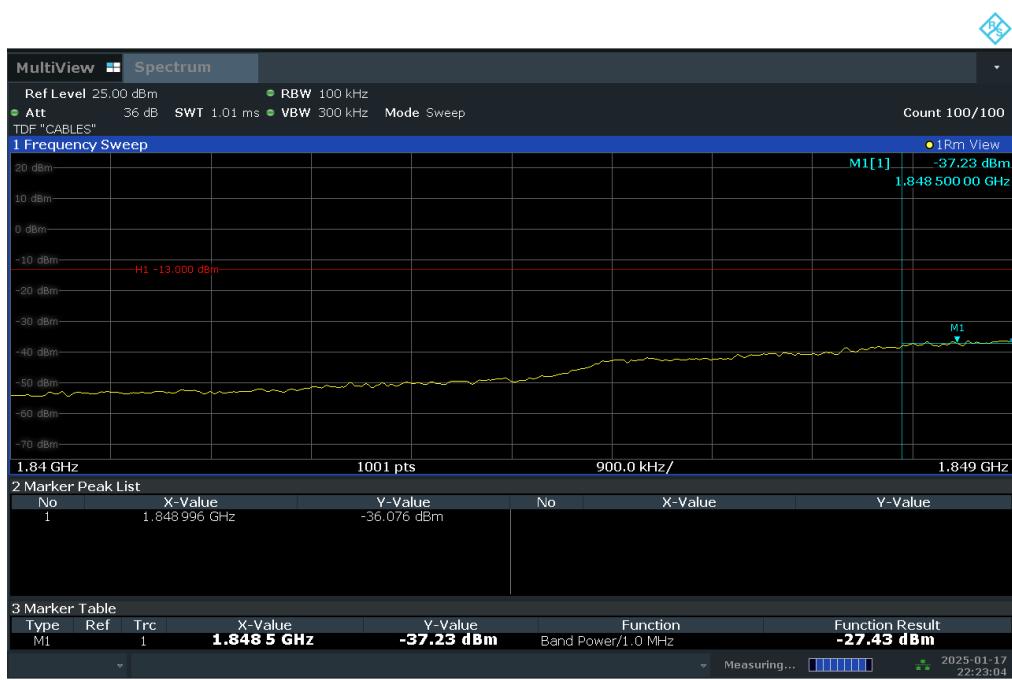


Plot 7-50. Extended Upper Band Edge Plot (LTE Band 25 – 1.4MHz QPSK – Full RB Configuration)

FCC ID: BCG-A3328	PART 24 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270037-02.BCG	Test Dates: 12/20/2024 - 7/25/2025	EUT Type: Watch		Page 44 of 130

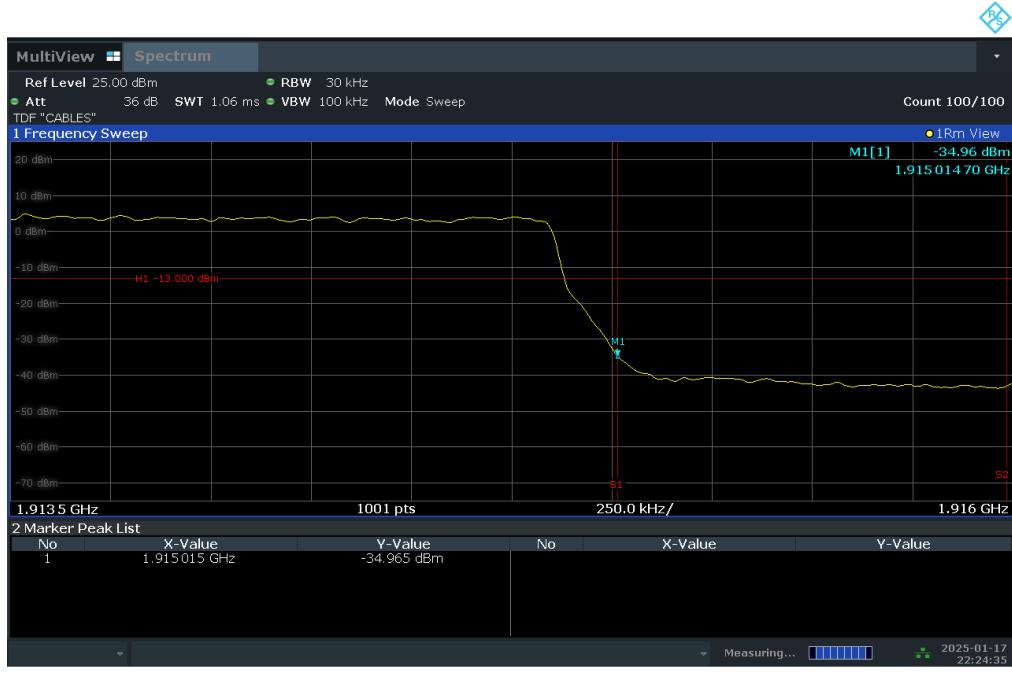


Plot 7-51. Lower Band Edge Plot (LTE Band 25 – 3MHz QPSK – Full RB Configuration)

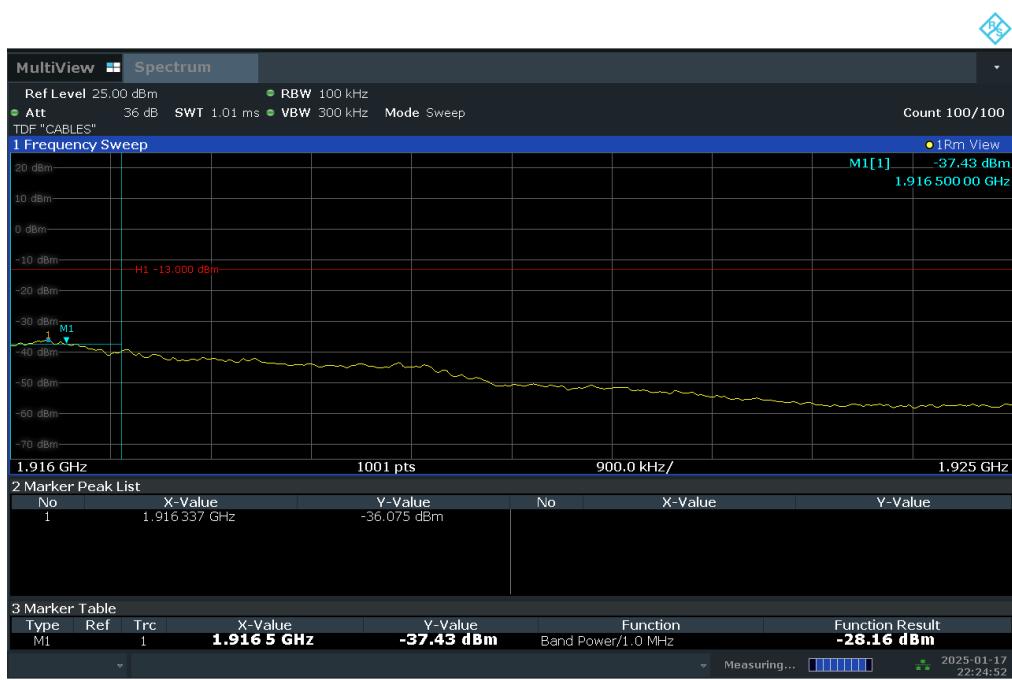


Plot 7-52. Extended Lower Band Edge Plot (LTE Band 25 – 3MHz QPSK – Full RB Configuration)

FCC ID: BCG-A3328	PART 24 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270037-02.BCG	Test Dates: 12/20/2024 - 7/25/2025	EUT Type: Watch		Page 45 of 130

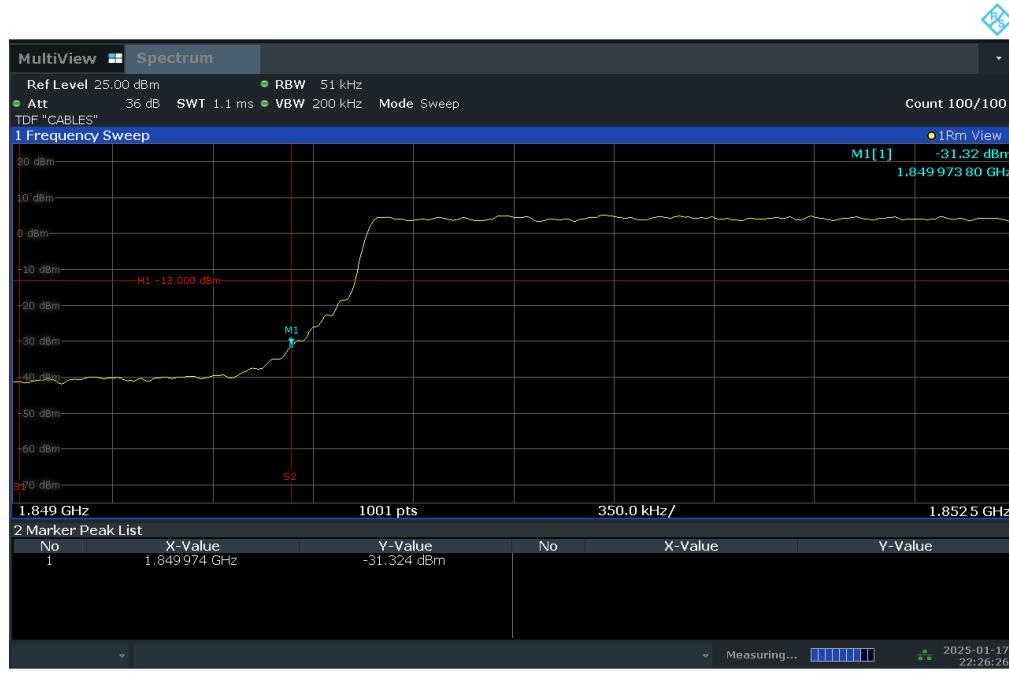


Plot 7-53. Upper Band Edge Plot (LTE Band 25 – 3MHz QPSK – Full RB Configuration)

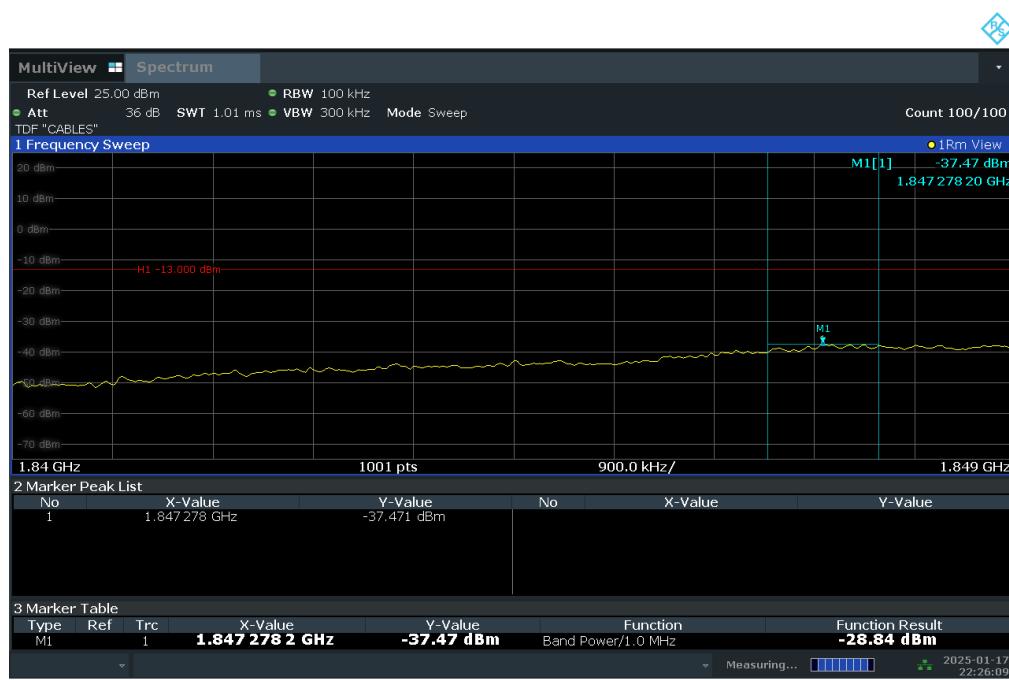


Plot 7-54. Extended Upper Band Edge Plot (LTE Band 25 – 3MHz QPSK – Full RB Configuration)

FCC ID: BCG-A3328	PART 24 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270037-02.BCG	Test Dates: 12/20/2024 - 7/25/2025	EUT Type: Watch		Page 46 of 130

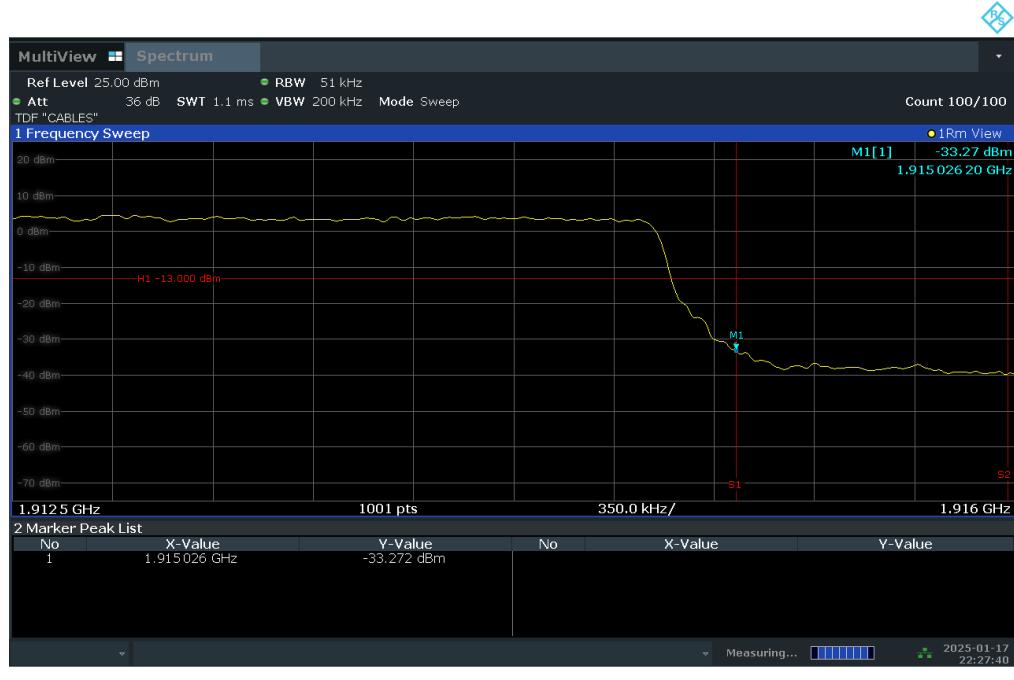


Plot 7-55. Lower Band Edge Plot (LTE Band 25 – 5MHz QPSK – Full RB Configuration)

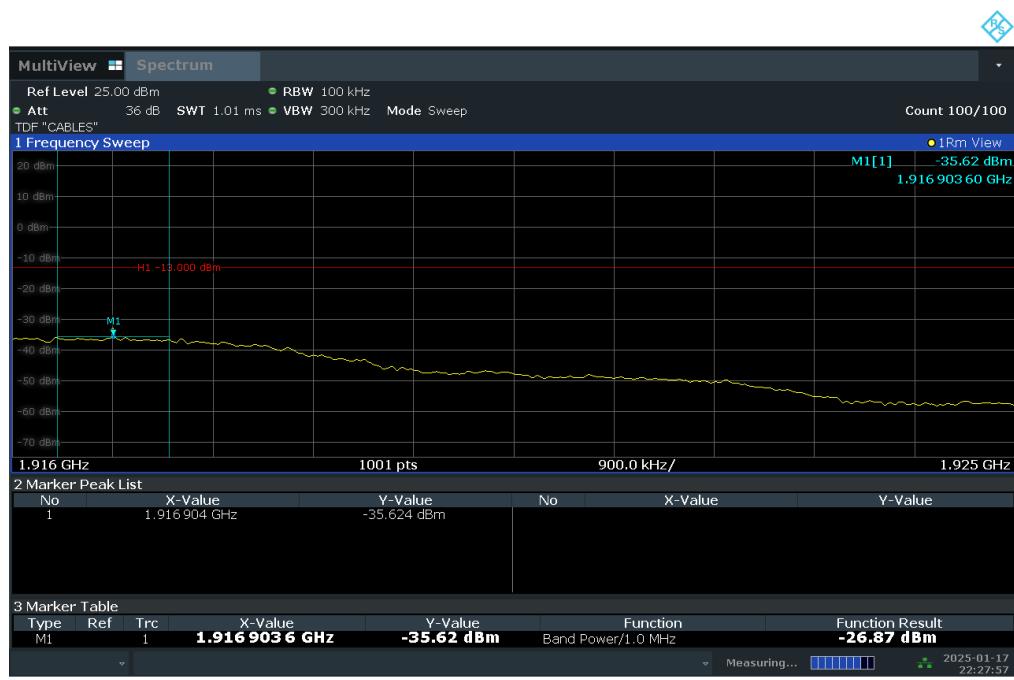


Plot 7-56. Extended Lower Band Edge Plot (LTE Band 25 – 5MHz QPSK – Full RB Configuration)

FCC ID: BCG-A3328	PART 24 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270037-02.BCG	Test Dates: 12/20/2024 - 7/25/2025	EUT Type: Watch		Page 47 of 130

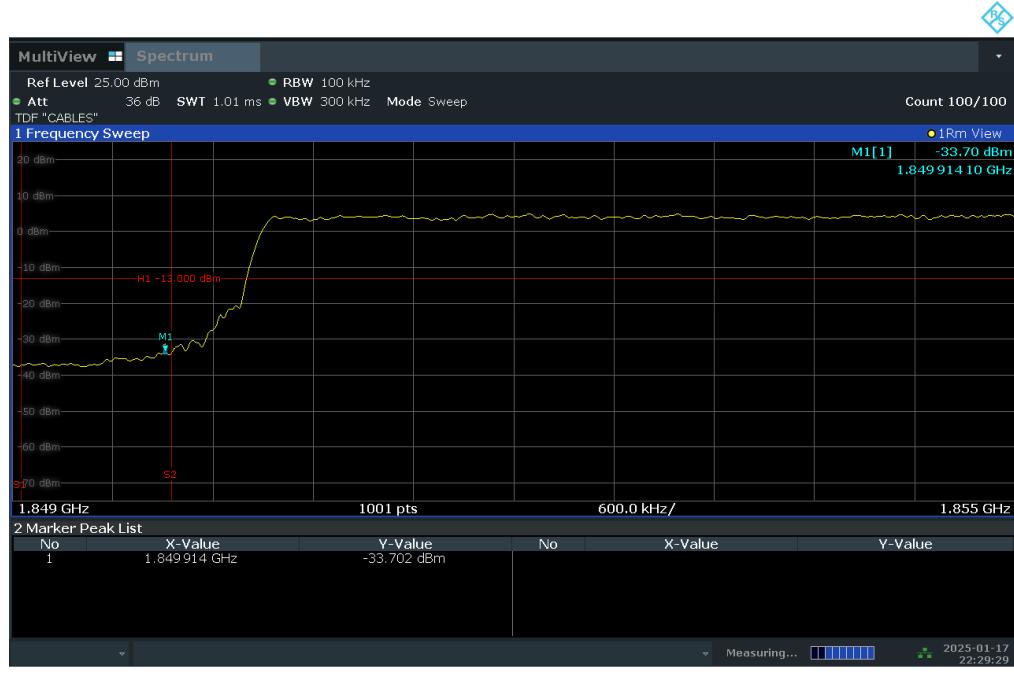


Plot 7-57. Upper Band Edge Plot (LTE Band 25 – 5MHz QPSK – Full RB Configuration)

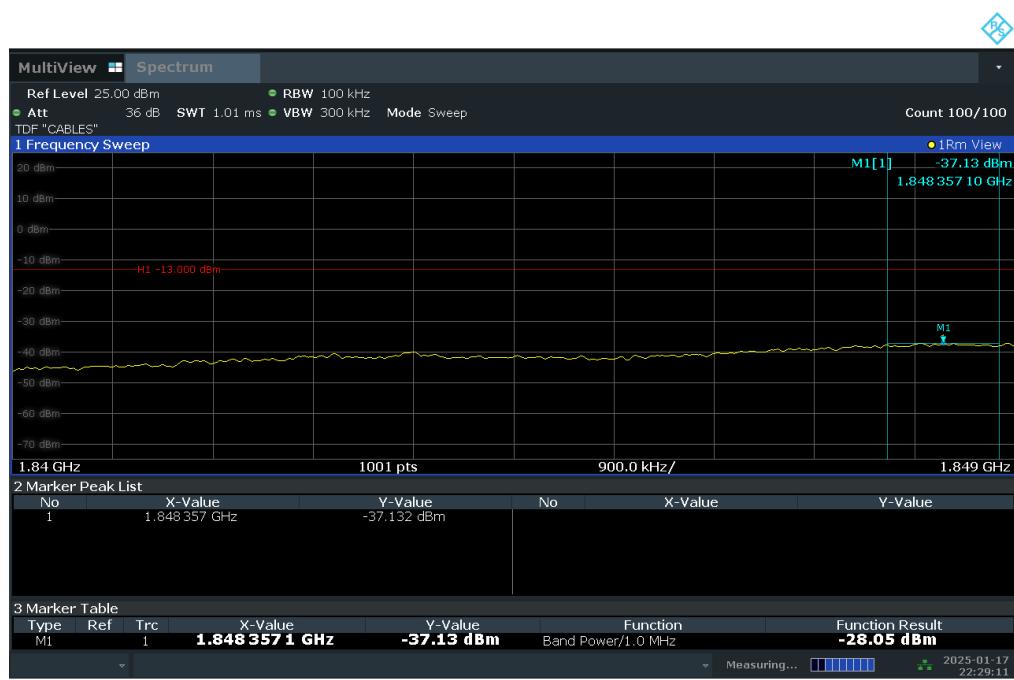


Plot 7-58. Extended Upper Band Edge Plot (LTE Band 25 – 5MHz QPSK – Full RB Configuration)

FCC ID: BCG-A3328	PART 24 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270037-02.BCG	Test Dates: 12/20/2024 - 7/25/2025	EUT Type: Watch		Page 48 of 130

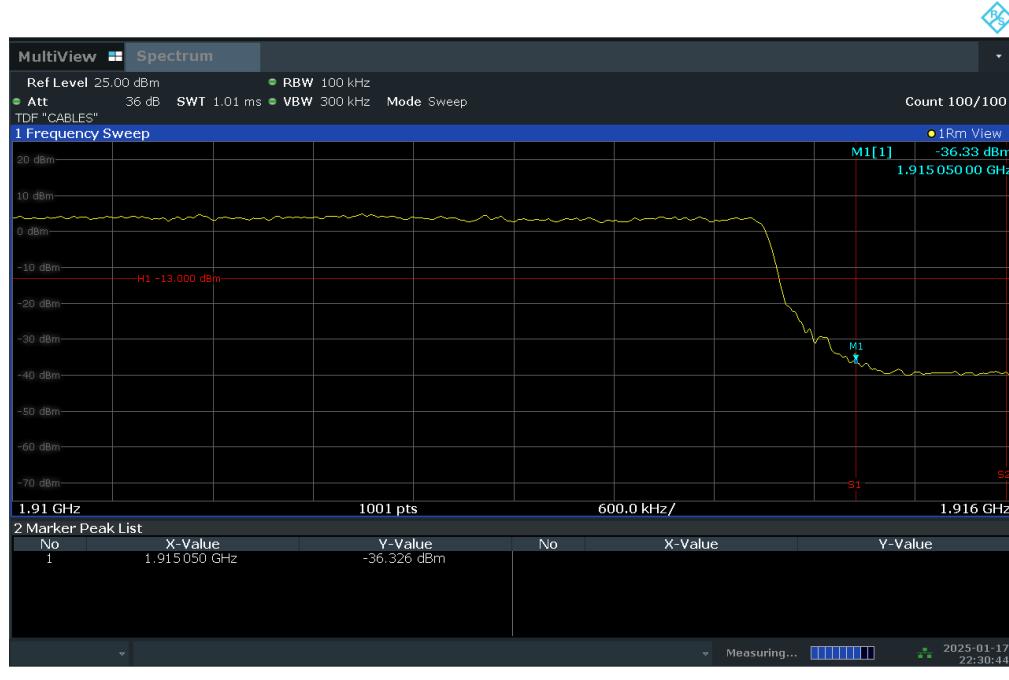


Plot 7-59. Lower Band Edge Plot (LTE Band 25 – 10MHz QPSK – Full RB Configuration)

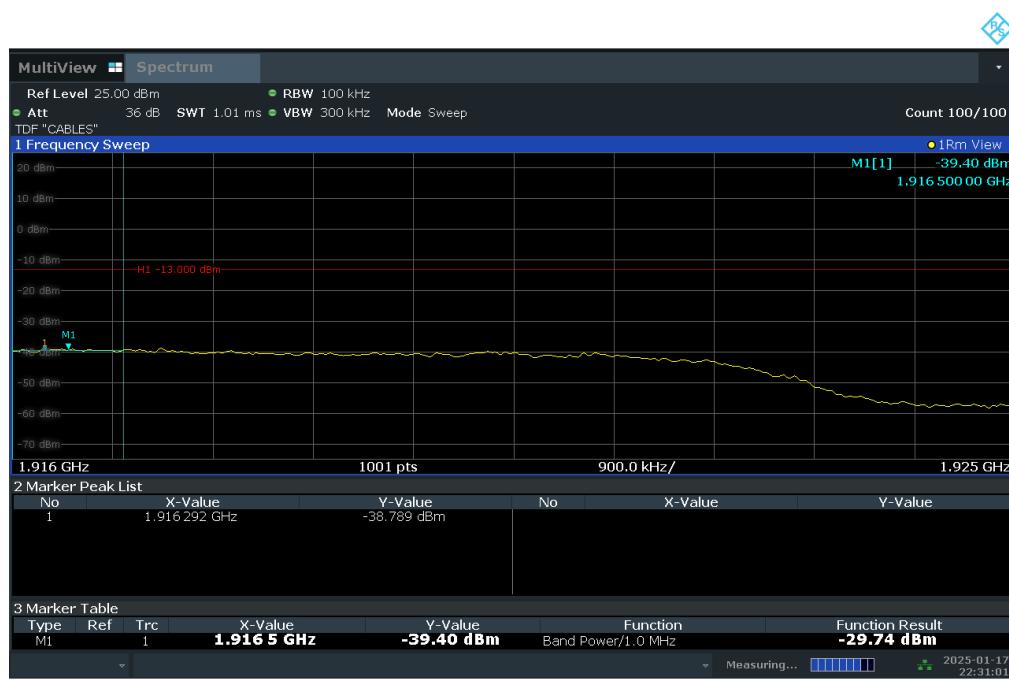


Plot 7-60. Extended Lower Band Edge Plot (LTE Band 25 – 10MHz QPSK – Full RB Configuration)

FCC ID: BCG-A3328	PART 24 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270037-02.BCG	Test Dates: 12/20/2024 - 7/25/2025	EUT Type: Watch		Page 49 of 130

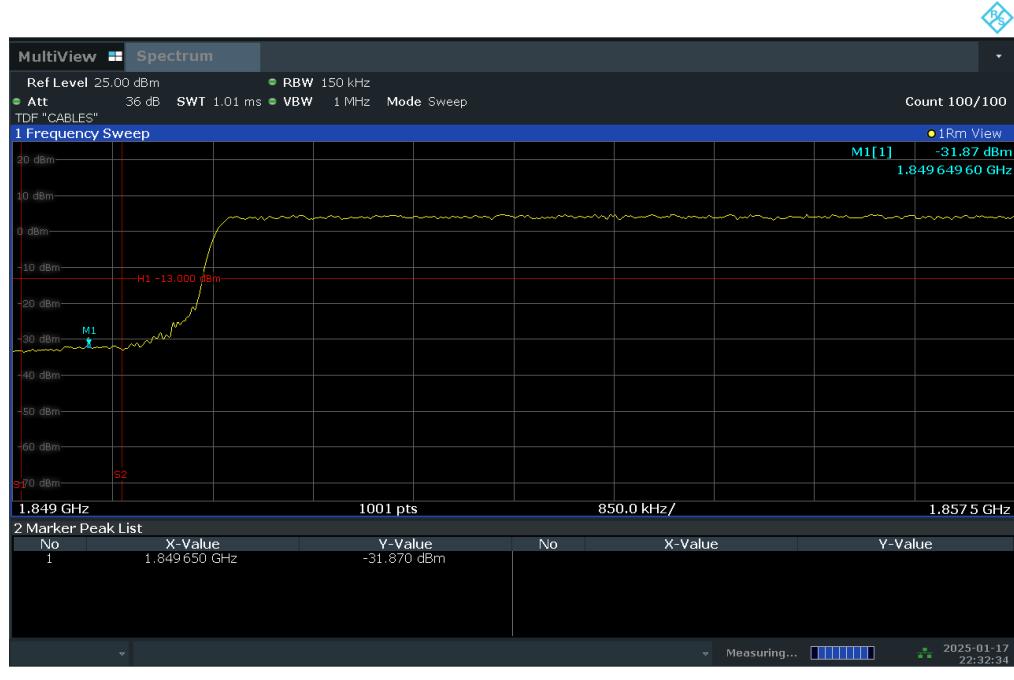


Plot 7-61. Upper Band Edge Plot (LTE Band 25 – 10MHz QPSK – Full RB Configuration)

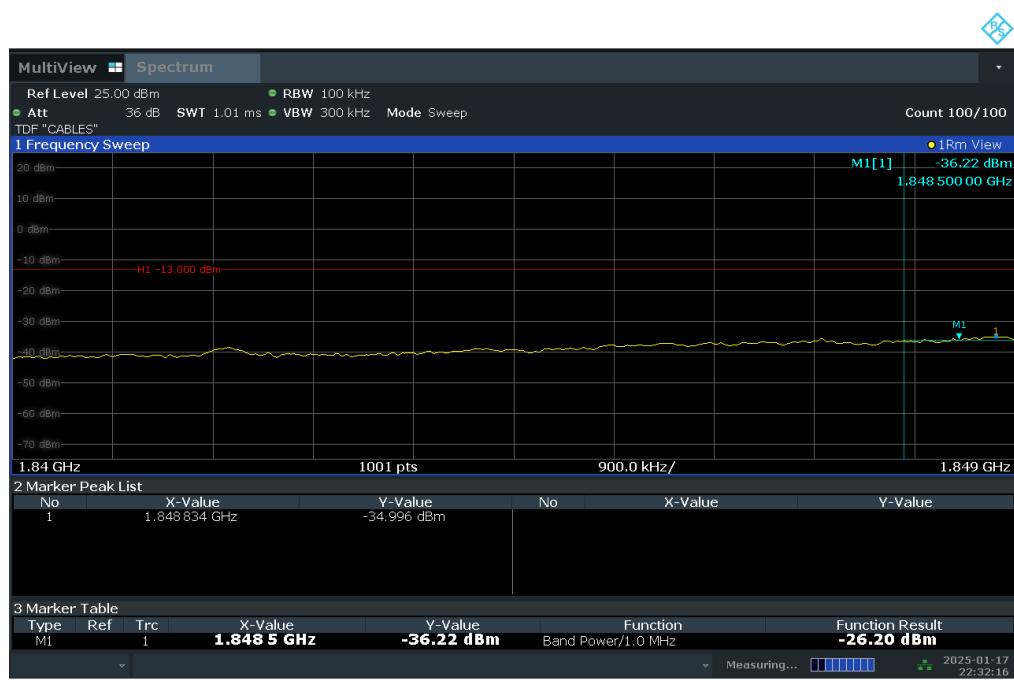


Plot 7-62. Extended Upper Band Edge Plot (LTE Band 25 – 10MHz QPSK – Full RB Configuration)

FCC ID: BCG-A3328	PART 24 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270037-02.BCG	Test Dates: 12/20/2024 - 7/25/2025	EUT Type: Watch		Page 50 of 130

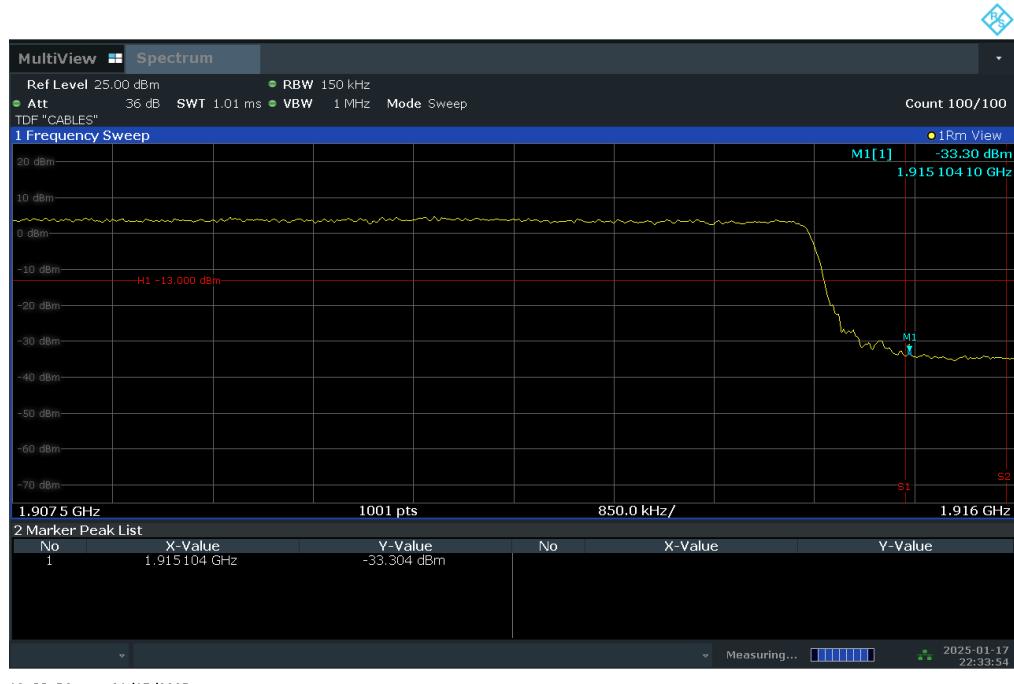


Plot 7-63. Lower Band Edge Plot (LTE Band 25 – 15MHz QPSK – Full RB Configuration)

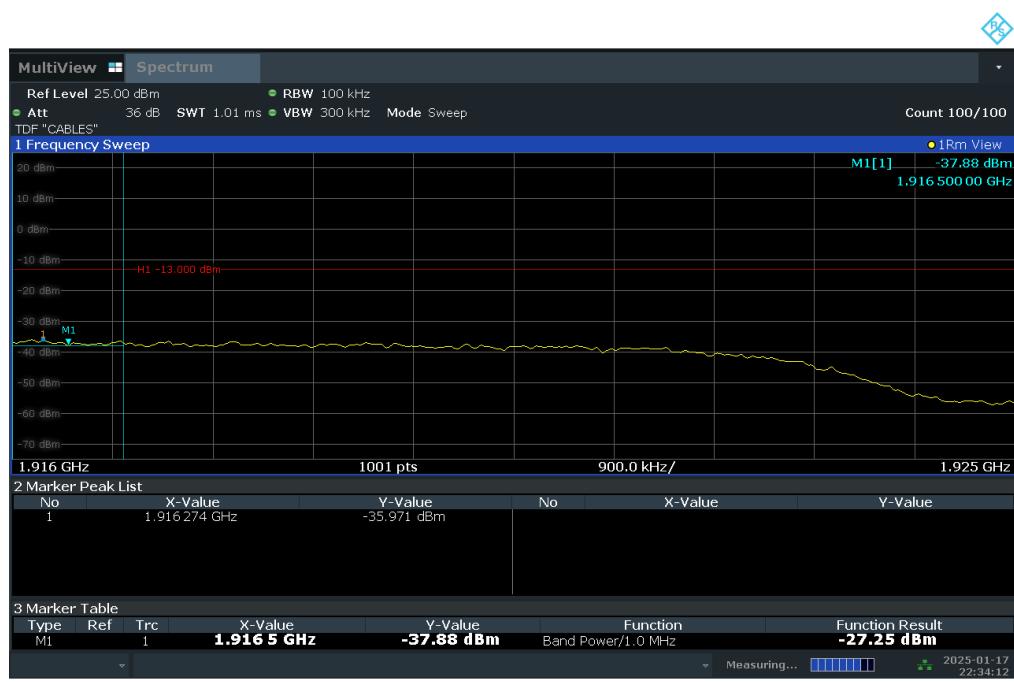


Plot 7-64. Extended Lower Band Edge Plot (LTE Band 25 – 15MHz QPSK – Full RB Configuration)

FCC ID: BCG-A3328	PART 24 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270037-02.BCG	Test Dates: 12/20/2024 - 7/25/2025	EUT Type: Watch		Page 51 of 130

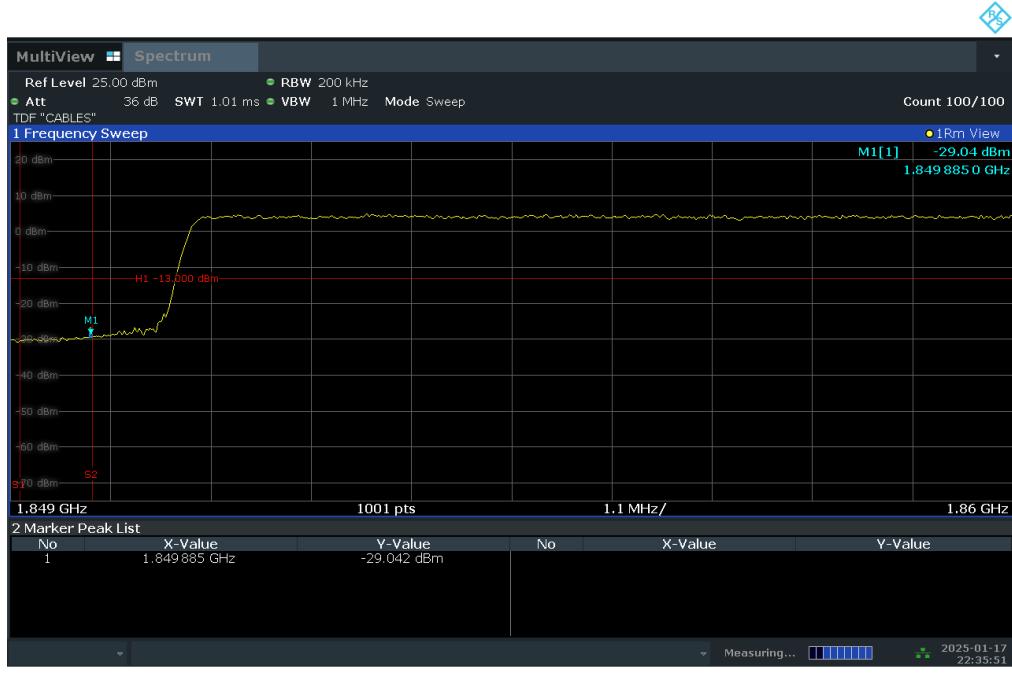


Plot 7-65. Upper Band Edge Plot (LTE Band 25 – 15MHz QPSK – Full RB Configuration)

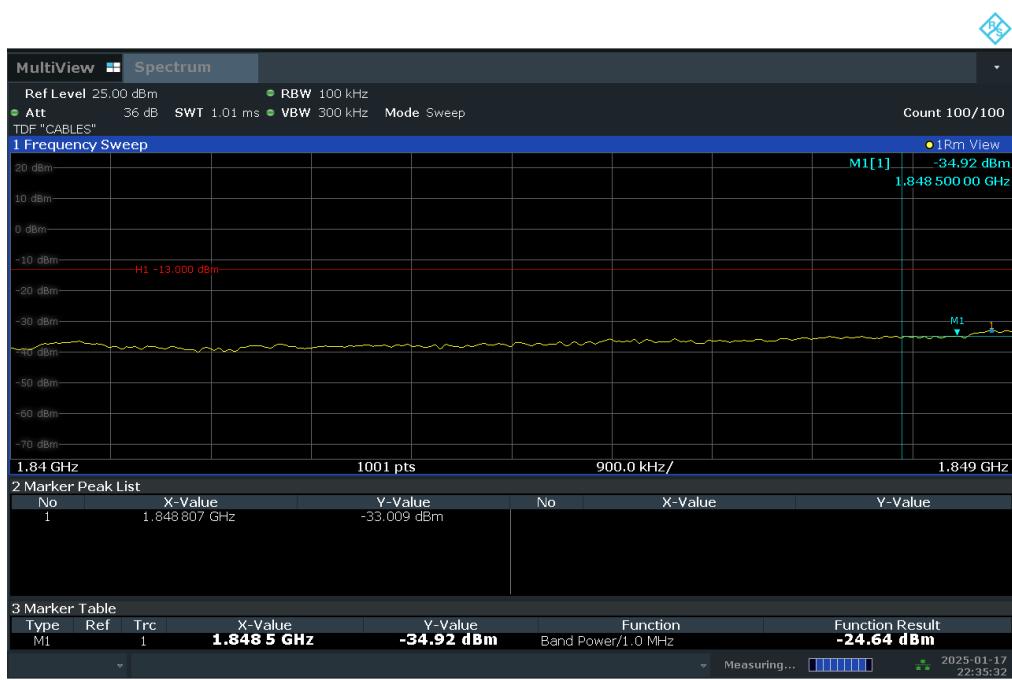


Plot 7-66. Extended Upper Band Edge Plot (LTE Band 25 – 15MHz QPSK – Full RB Configuration)

FCC ID: BCG-A3328	PART 24 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270037-02.BCG	Test Dates: 12/20/2024 - 7/25/2025	EUT Type: Watch		Page 52 of 130

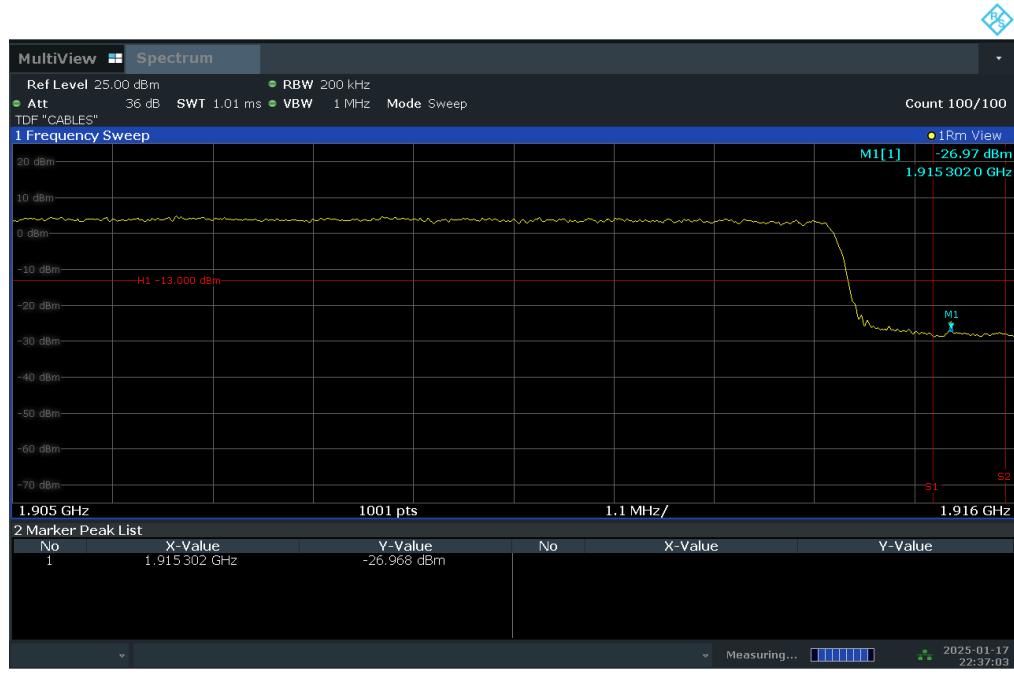


Plot 7-67. Lower Band Edge Plot (LTE Band 25 – 20MHz QPSK – Full RB Configuration)

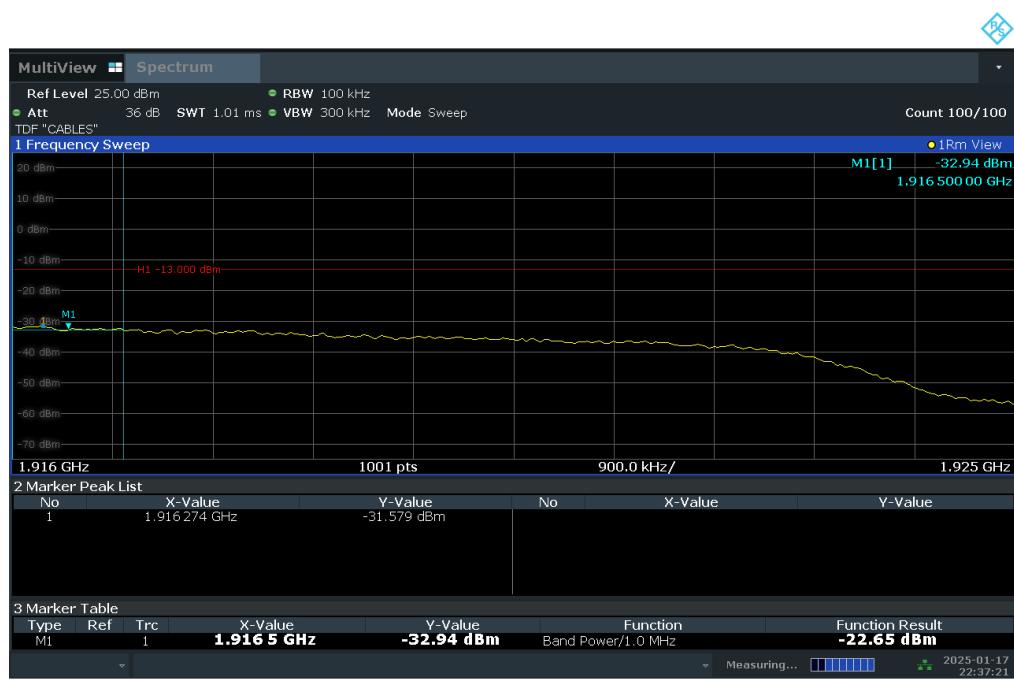


Plot 7-68. Extended Lower Band Edge Plot (LTE Band 25 – 20MHz QPSK – Full RB Configuration)

FCC ID: BCG-A3328	PART 24 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270037-02.BCG	Test Dates: 12/20/2024 - 7/25/2025	EUT Type: Watch		Page 53 of 130



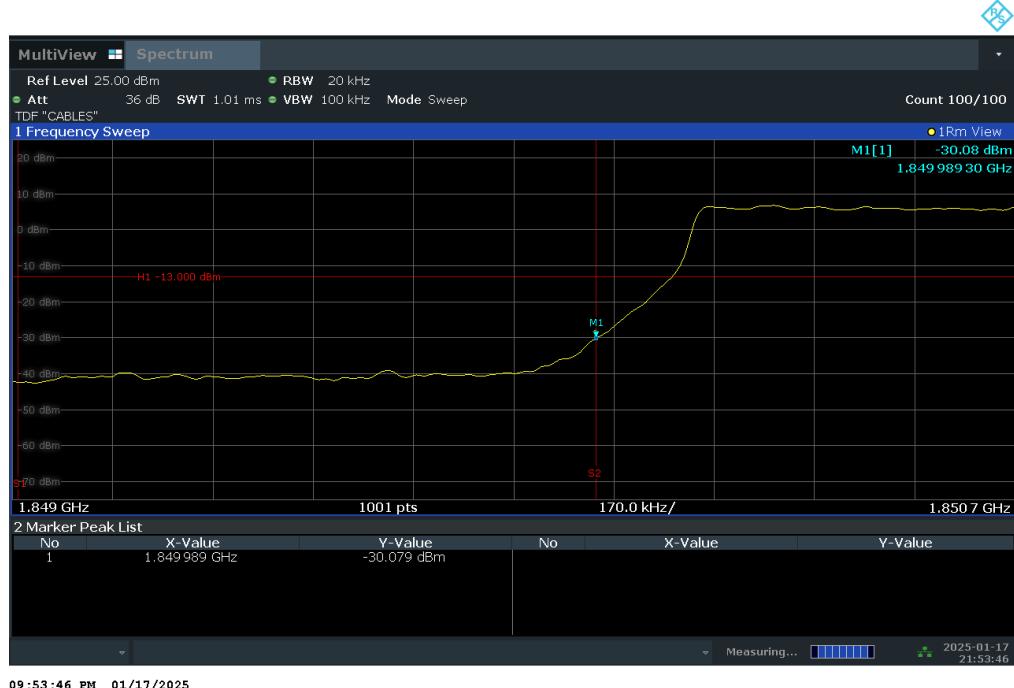
Plot 7-69. Upper Band Edge Plot (LTE Band 25 – 20MHz QPSK – Full RB Configuration)



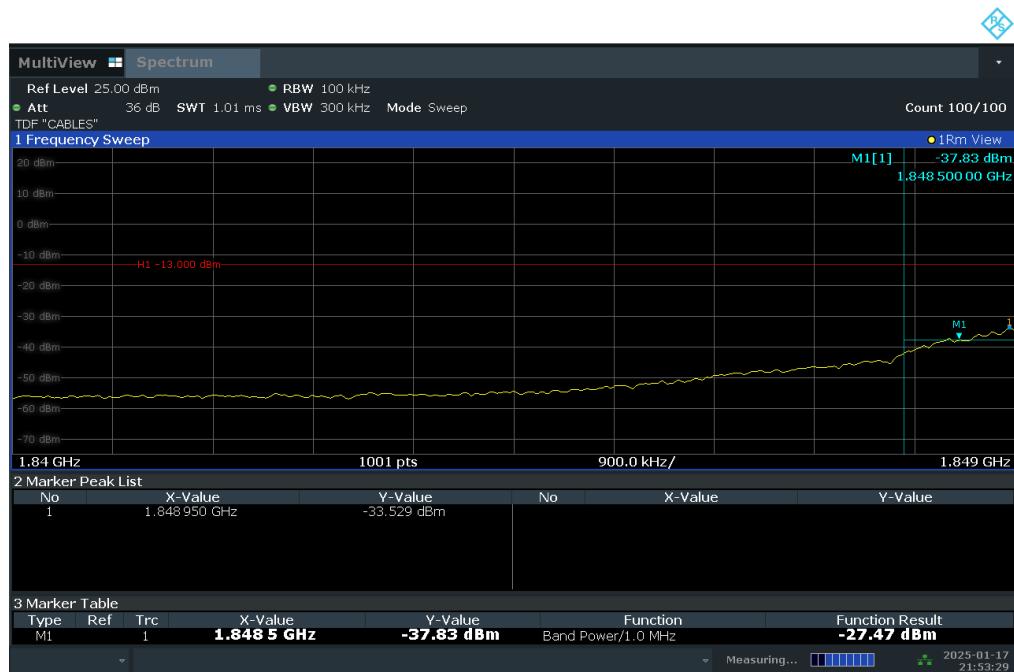
Plot 7-70. Extended Upper Band Edge Plot (LTE Band 25 – 20MHz QPSK – Full RB Configuration)

FCC ID: BCG-A3328	PART 24 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270037-02.BCG	Test Dates: 12/20/2024 - 7/25/2025	EUT Type: Watch		Page 54 of 130

LTE Band 2

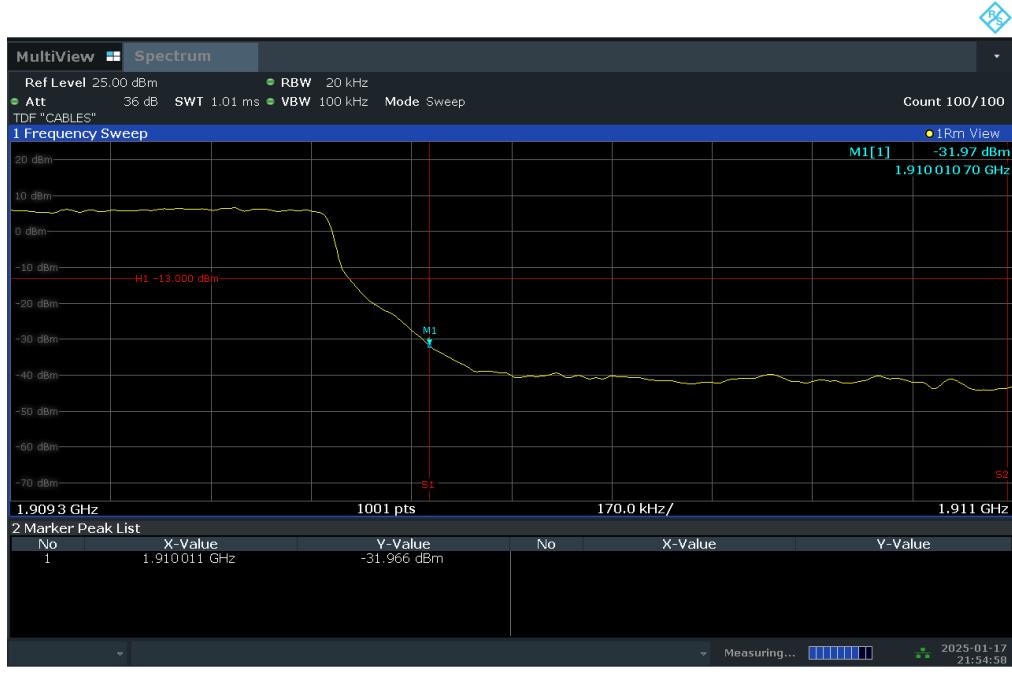


Plot 7-71. Lower Band Edge Plot (LTE Band 2 – 1.4MHz QPSK – Full RB Configuration)

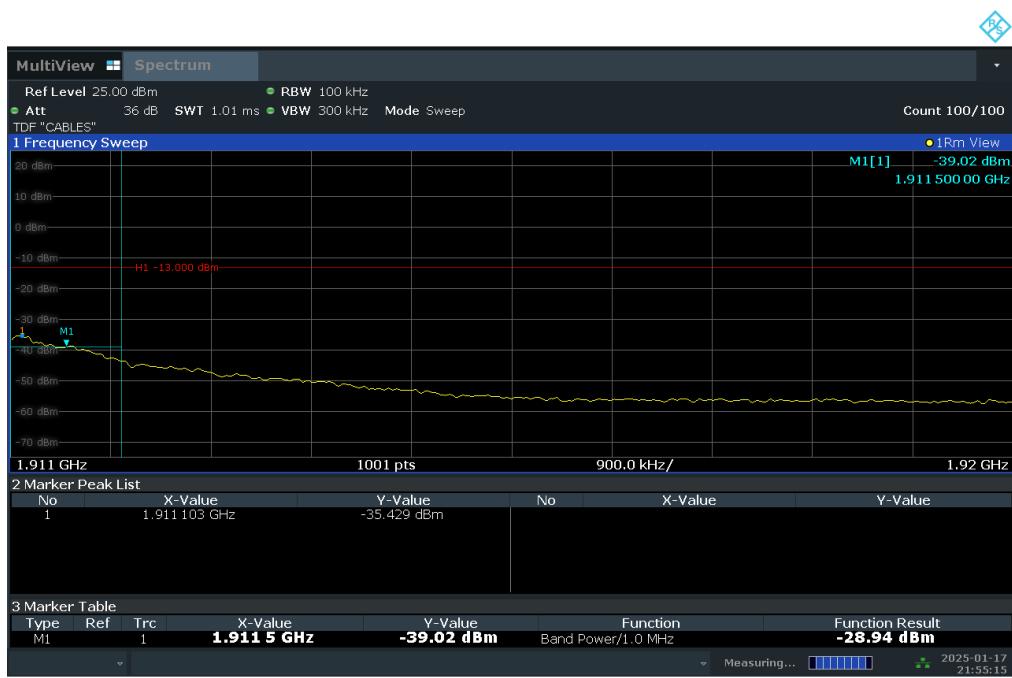


Plot 7-72. Extended Lower Band Edge Plot (LTE Band 2 – 1.4MHz QPSK – Full RB Configuration)

FCC ID: BCG-A3328	 element PART 24 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270037-02.BCG	Test Dates: 12/20/2024 - 7/25/2025	EUT Type: Watch	Page 55 of 130	

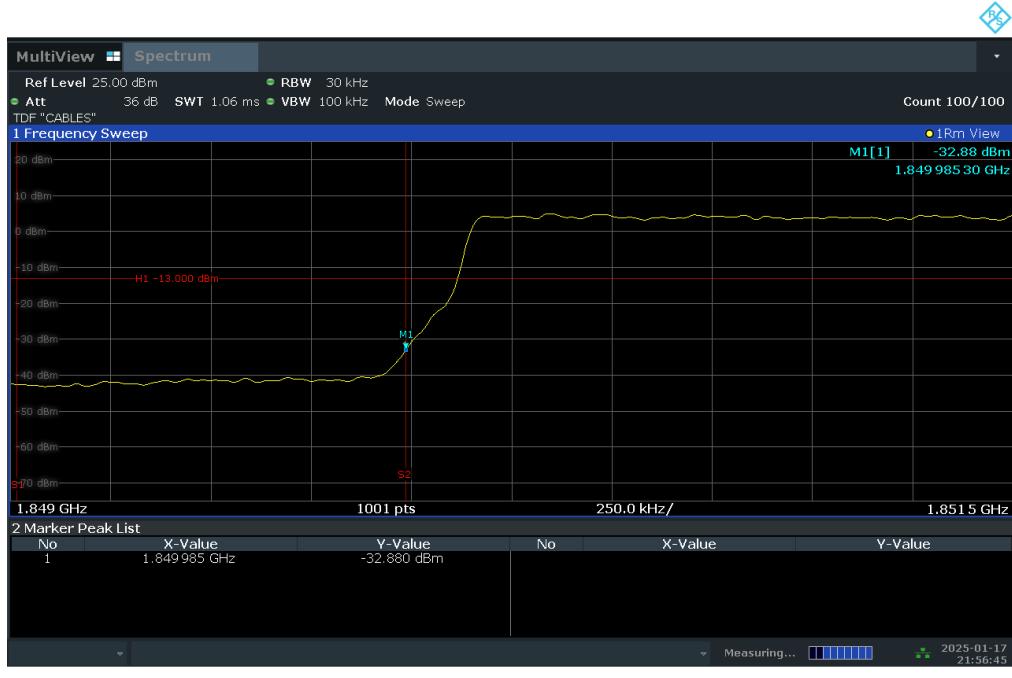


Plot 7-73. Upper Band Edge Plot (LTE Band 2 – 1.4MHz QPSK – Full RB Configuration)

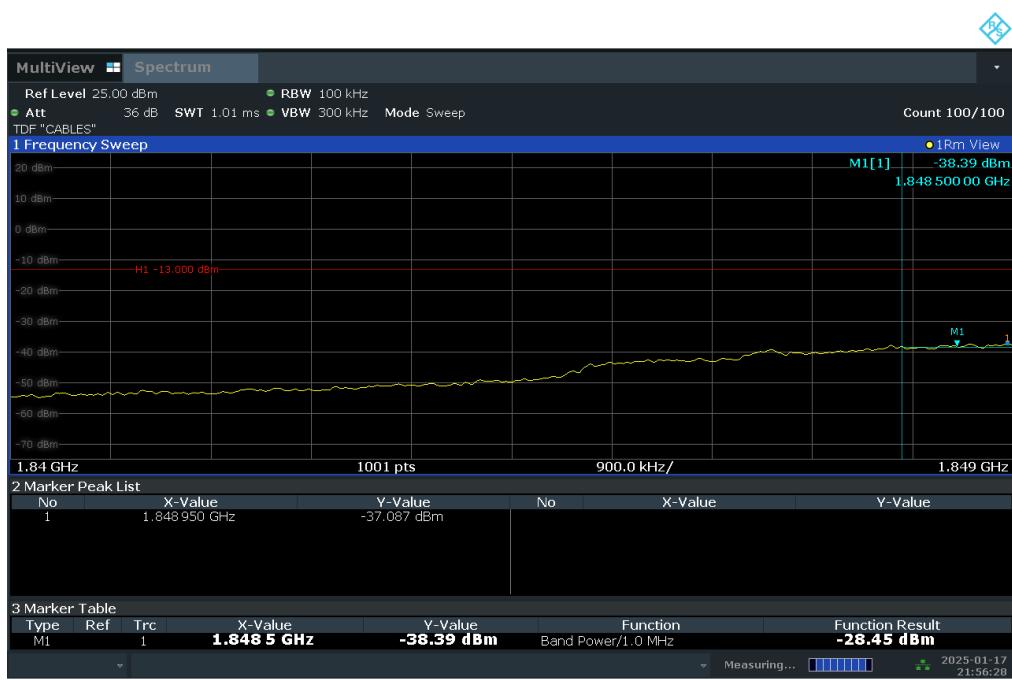


Plot 7-74. Extended Upper Band Edge Plot (LTE Band 2 – 1.4MHz QPSK – Full RB Configuration)

FCC ID: BCG-A3328	PART 24 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270037-02.BCG	Test Dates: 12/20/2024 - 7/25/2025	EUT Type: Watch		Page 56 of 130

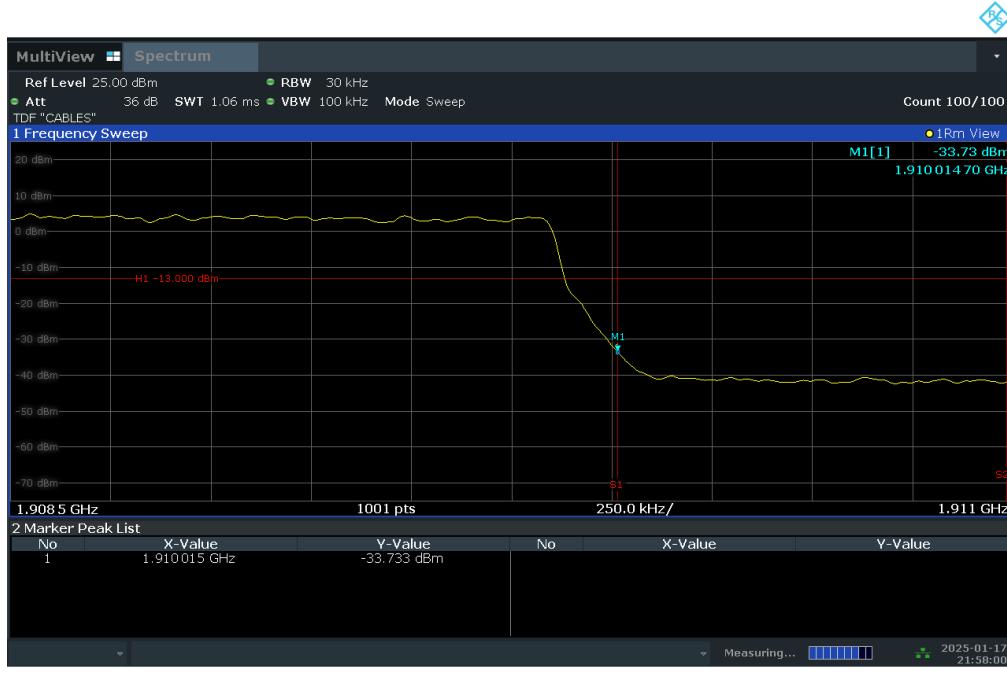


Plot 7-75. Lower Band Edge Plot (LTE Band 2 – 3MHz QPSK – Full RB Configuration)

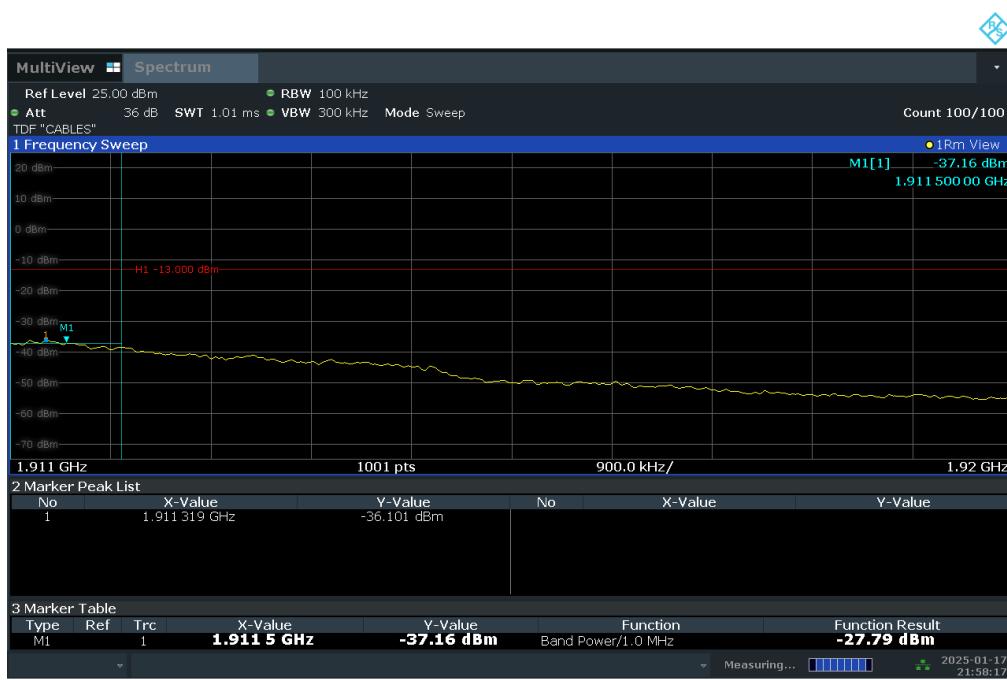


Plot 7-76. Extended Lower Band Edge Plot (LTE Band 2 – 3MHz QPSK – Full RB Configuration)

FCC ID: BCG-A3328	 PART 24 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270037-02.BCG	Test Dates: 12/20/2024 - 7/25/2025	EUT Type: Watch		Page 57 of 130

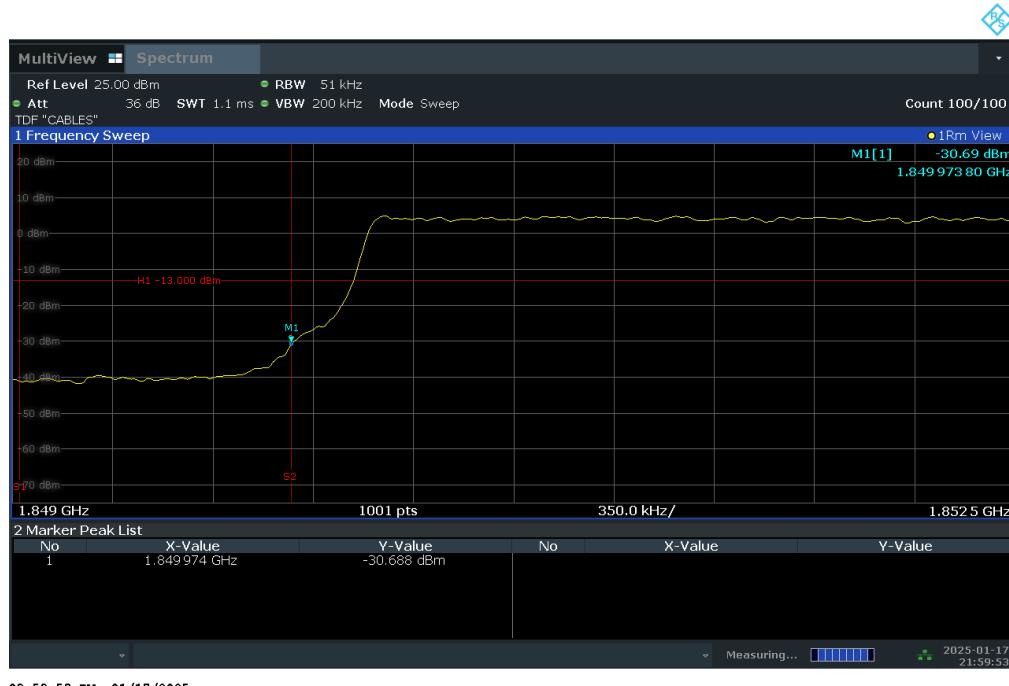


Plot 7-77. Upper Band Edge Plot (LTE Band 2 – 3MHz QPSK – Full RB Configuration)

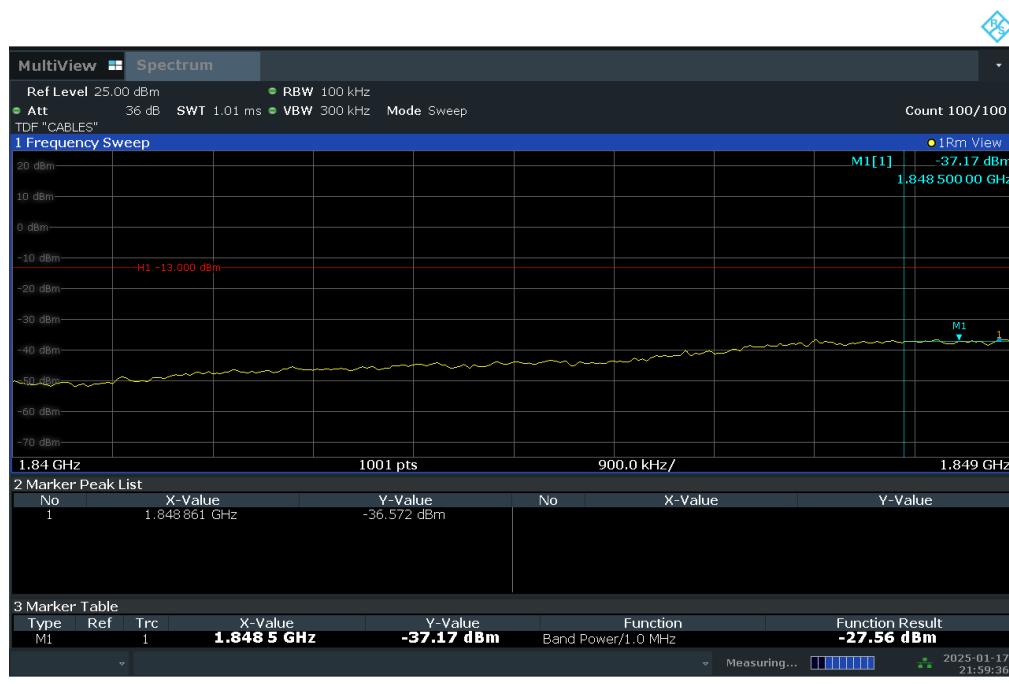


Plot 7-78. Extended Upper Band Edge Plot (LTE Band 2 – 3MHz QPSK – Full RB Configuration)

FCC ID: BCG-A3328	PART 24 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270037-02.BCG	Test Dates: 12/20/2024 - 7/25/2025	EUT Type: Watch		Page 58 of 130

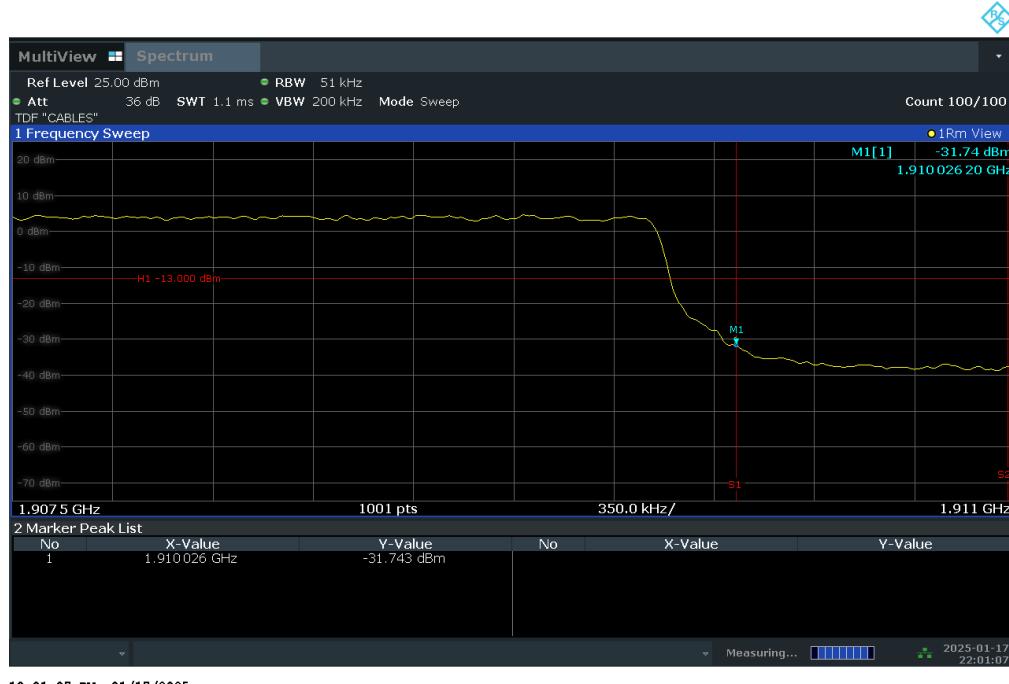


Plot 7-79. Lower Band Edge Plot (LTE Band 2 – 5MHz QPSK – Full RB Configuration)

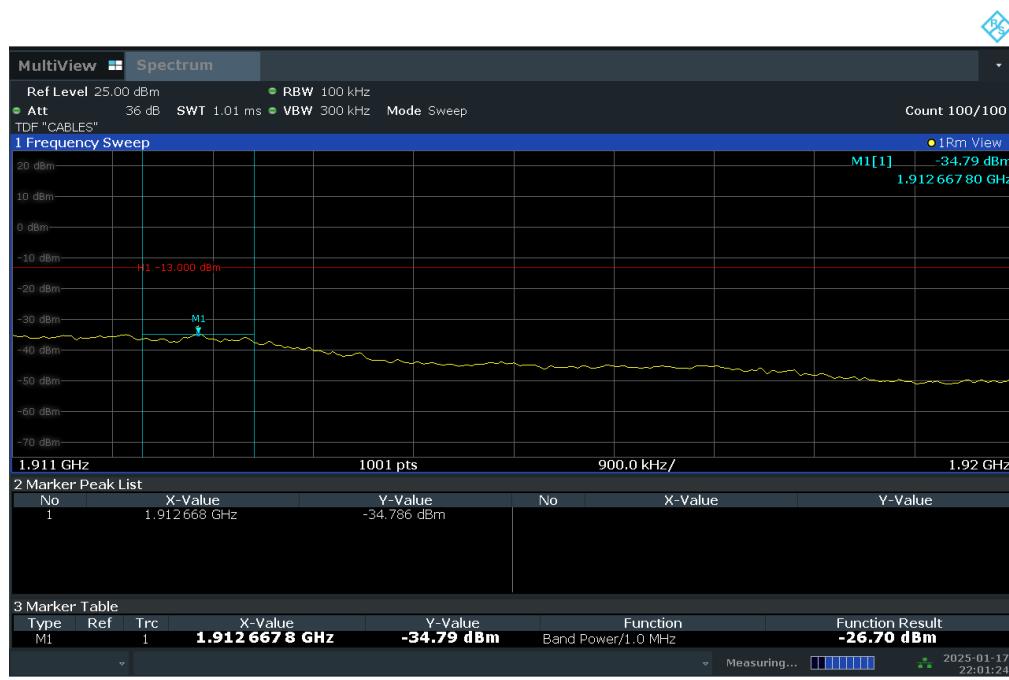


Plot 7-80. Extended Lower Band Edge Plot (LTE Band 2 – 5MHz QPSK – Full RB Configuration)

FCC ID: BCG-A3328	PART 24 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270037-02.BCG	Test Dates: 12/20/2024 - 7/25/2025	EUT Type: Watch		Page 59 of 130

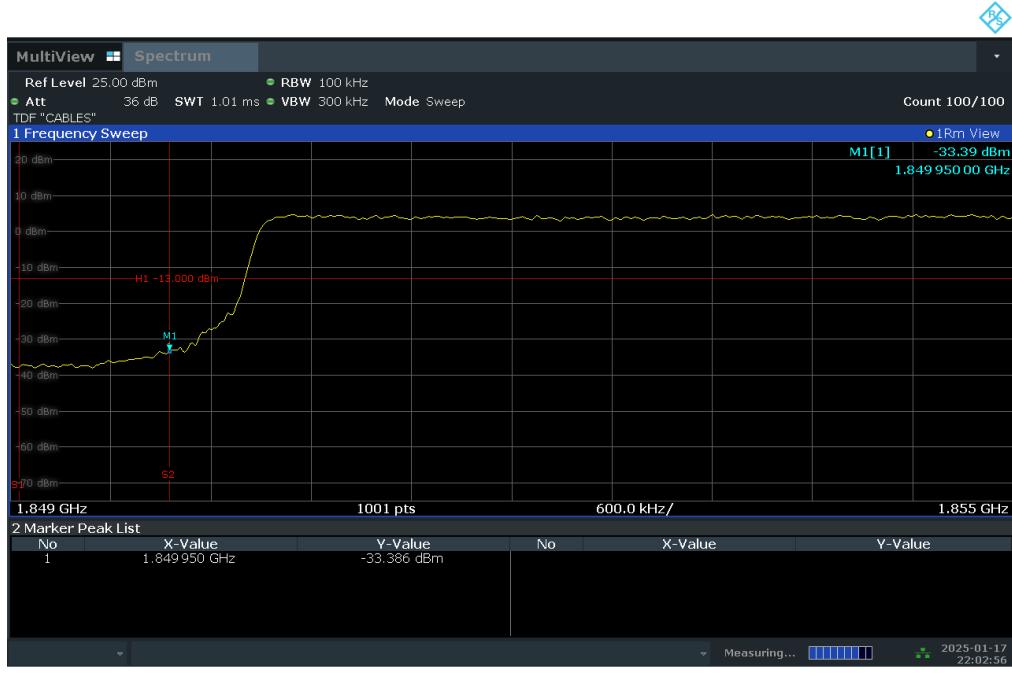


Plot 7-81. Upper Band Edge Plot (LTE Band 2 – 5MHz QPSK – Full RB Configuration)



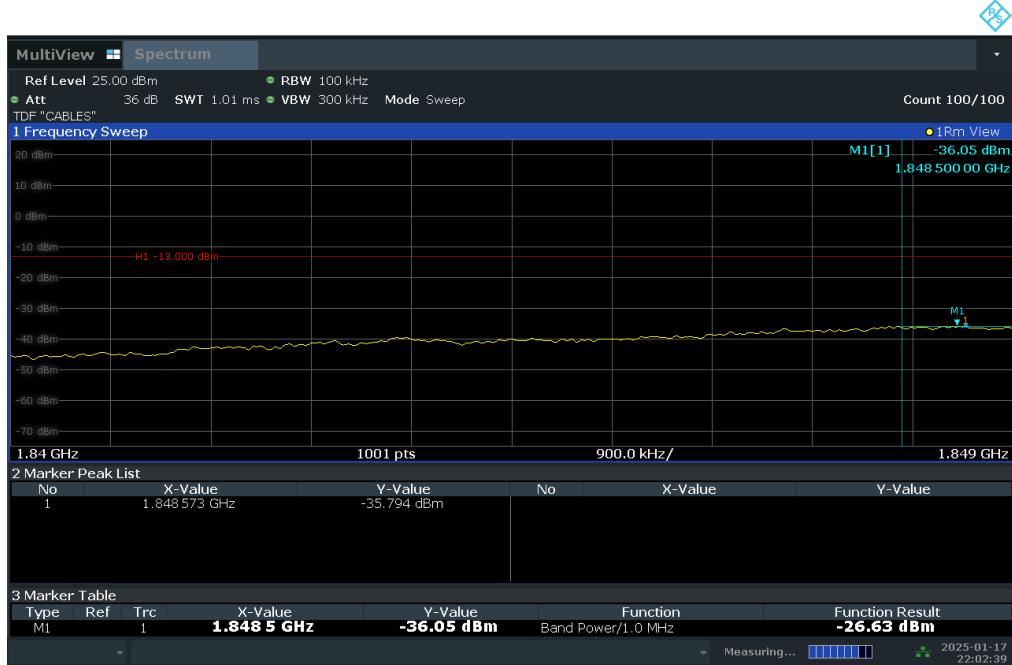
Plot 7-82. Extended Upper Band Edge Plot (LTE Band 2 – 5MHz QPSK – Full RB Configuration)

FCC ID: BCG-A3328	PART 24 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270037-02.BCG	Test Dates: 12/20/2024 - 7/25/2025	EUT Type: Watch		Page 60 of 130



10:02:56 PM 01/17/2025

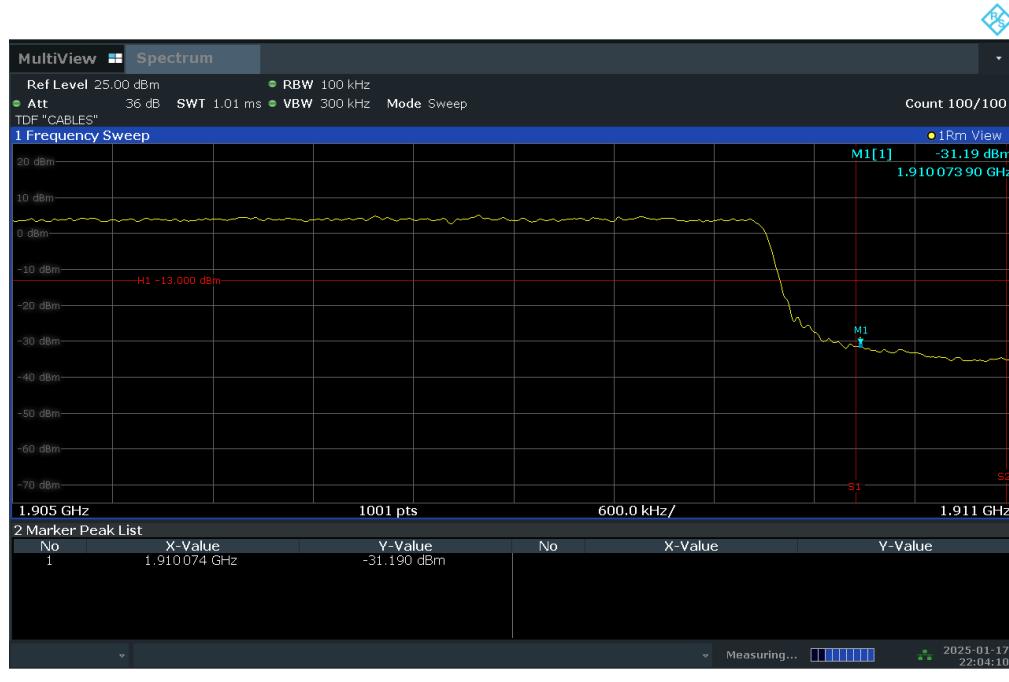
Plot 7-83. Lower Band Edge Plot (LTE Band 2 – 10MHz QPSK – Full RB Configuration)



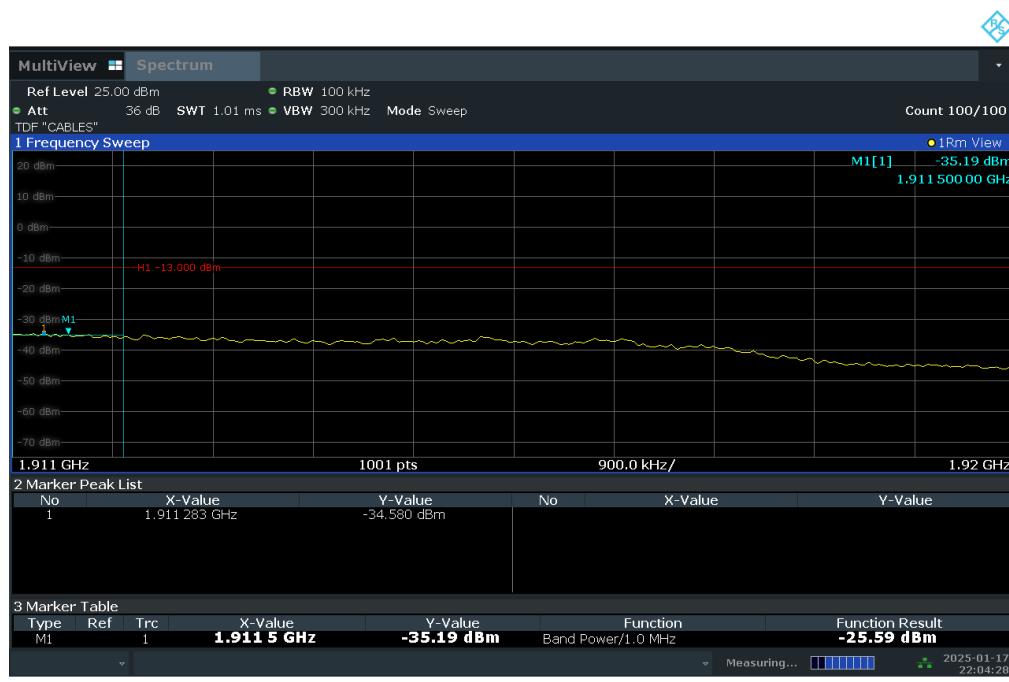
10:02:39 PM 01/17/2025

Plot 7-84. Extended Lower Band Edge Plot (LTE Band 2 – 10MHz QPSK – Full RB Configuration)

FCC ID: BCG-A3328	PART 24 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270037-02.BCG	Test Dates: 12/20/2024 - 7/25/2025	EUT Type: Watch		Page 61 of 130

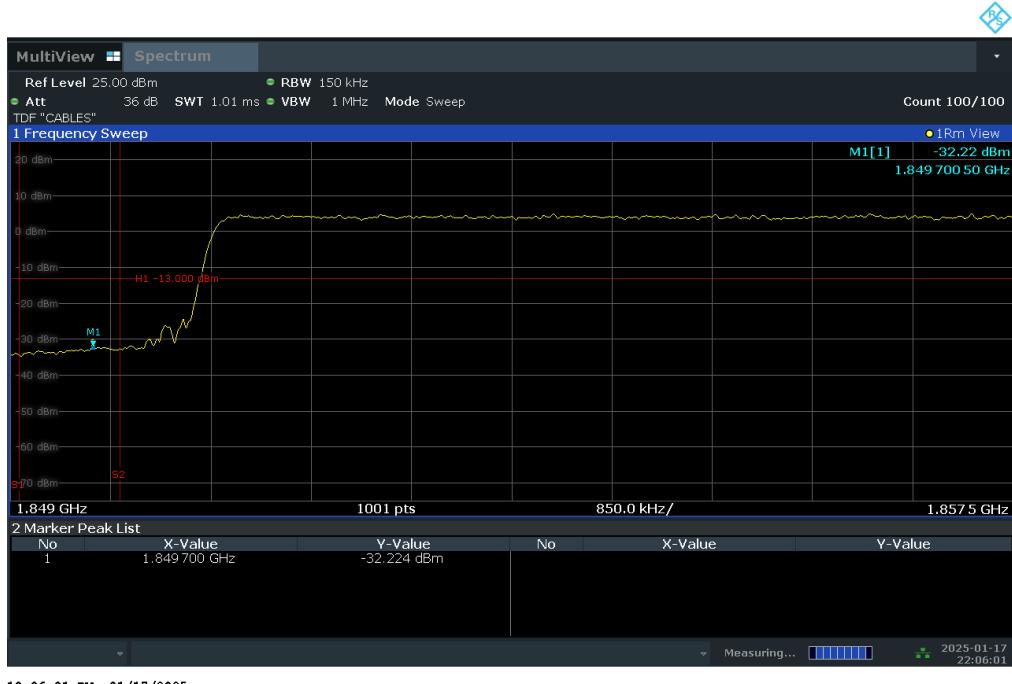


Plot 7-85. Upper Band Edge Plot (LTE Band 2 – 10MHz QPSK – Full RB Configuration)

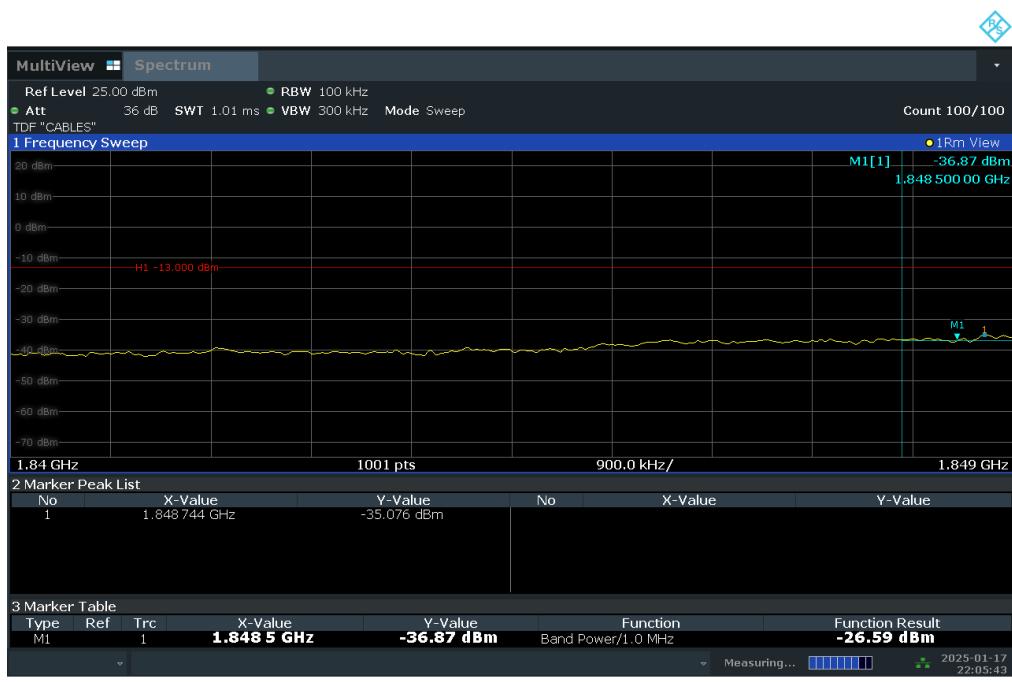


Plot 7-86. Extended Upper Band Edge Plot (LTE Band 2 – 10MHz QPSK – Full RB Configuration)

FCC ID: BCG-A3328	PART 24 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270037-02.BCG	Test Dates: 12/20/2024 - 7/25/2025	EUT Type: Watch		Page 62 of 130

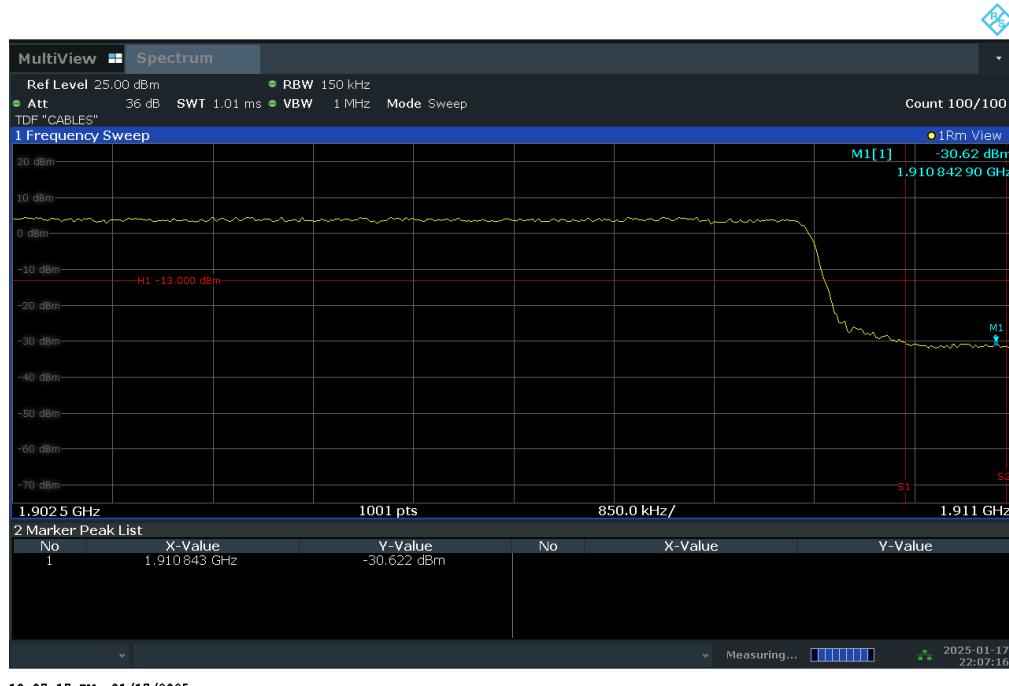


Plot 7-87. Lower Band Edge Plot (LTE Band 2 – 15MHz QPSK – Full RB Configuration)

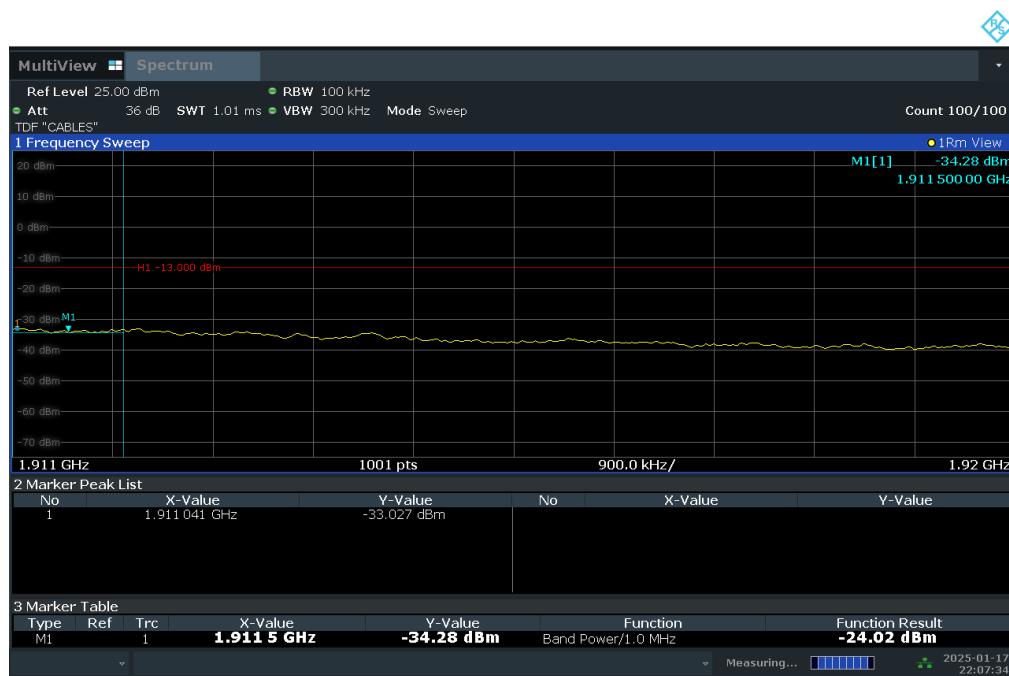


Plot 7-88. Extended Lower Band Edge Plot (LTE Band 2 – 15MHz QPSK – Full RB Configuration)

FCC ID: BCG-A3328	PART 24 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270037-02.BCG	Test Dates: 12/20/2024 - 7/25/2025	EUT Type: Watch		Page 63 of 130

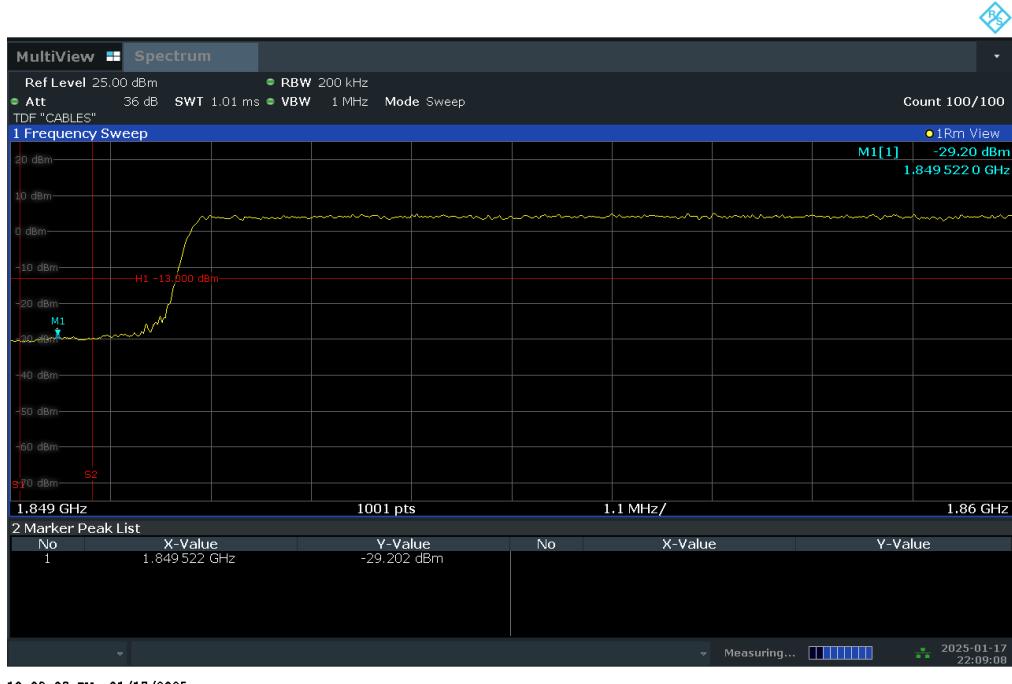


Plot 7-89. Upper Band Edge Plot (LTE Band 2 – 15MHz QPSK – Full RB Configuration)

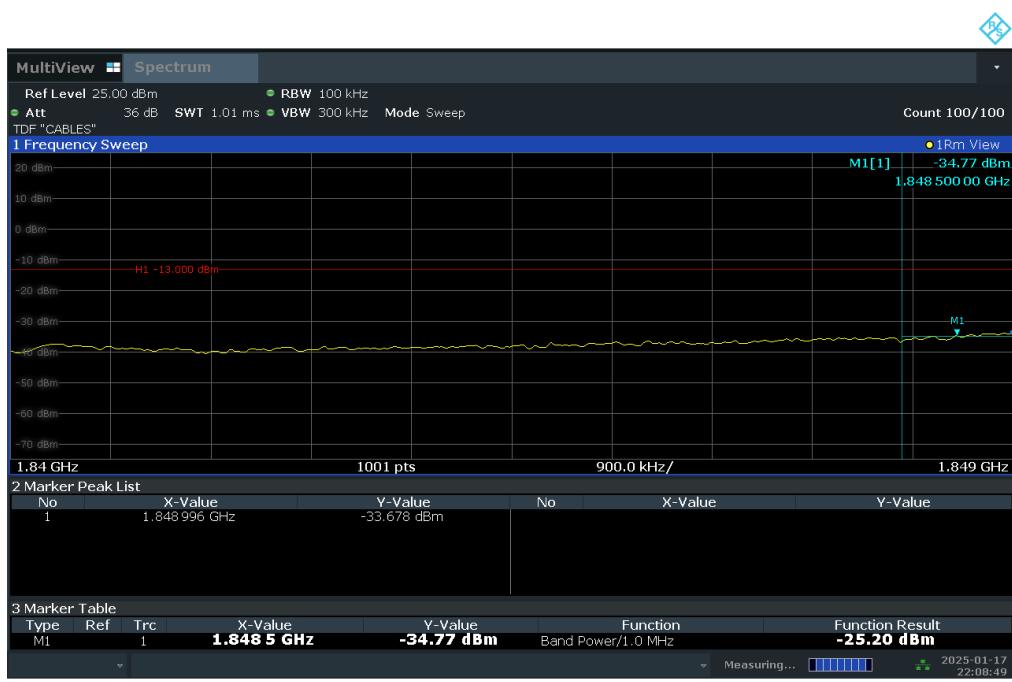


Plot 7-90. Extended Upper Band Edge Plot (LTE Band 2 – 15MHz QPSK – Full RB Configuration)

FCC ID: BCG-A3328	PART 24 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270037-02.BCG	Test Dates: 12/20/2024 - 7/25/2025	EUT Type: Watch		Page 64 of 130

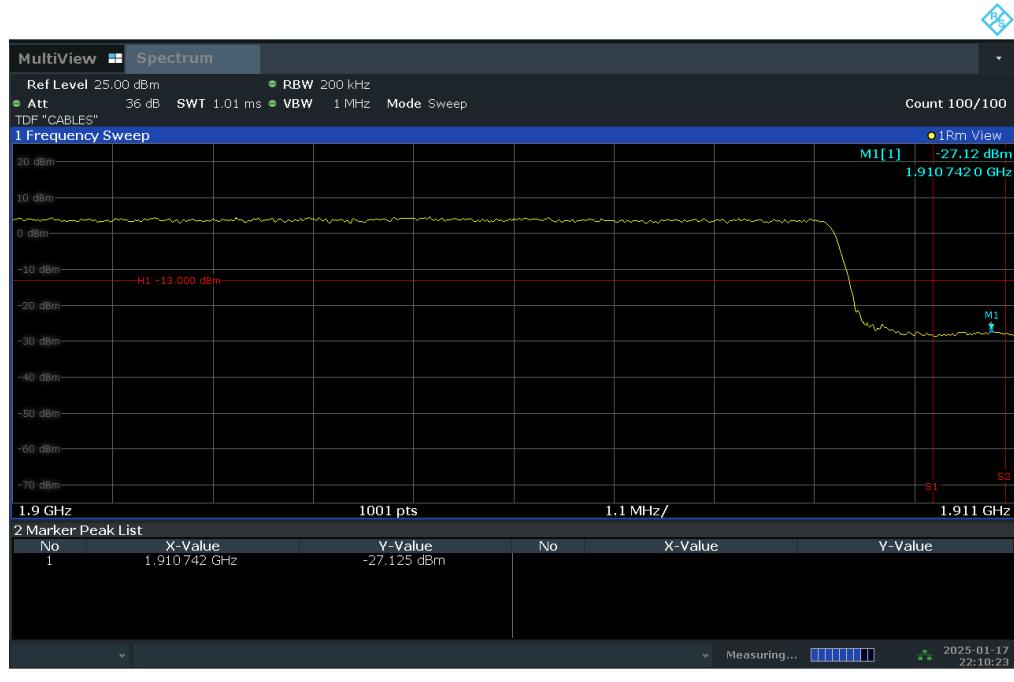


Plot 7-91. Lower Band Edge Plot (LTE Band 2 – 20MHz QPSK – Full RB Configuration)

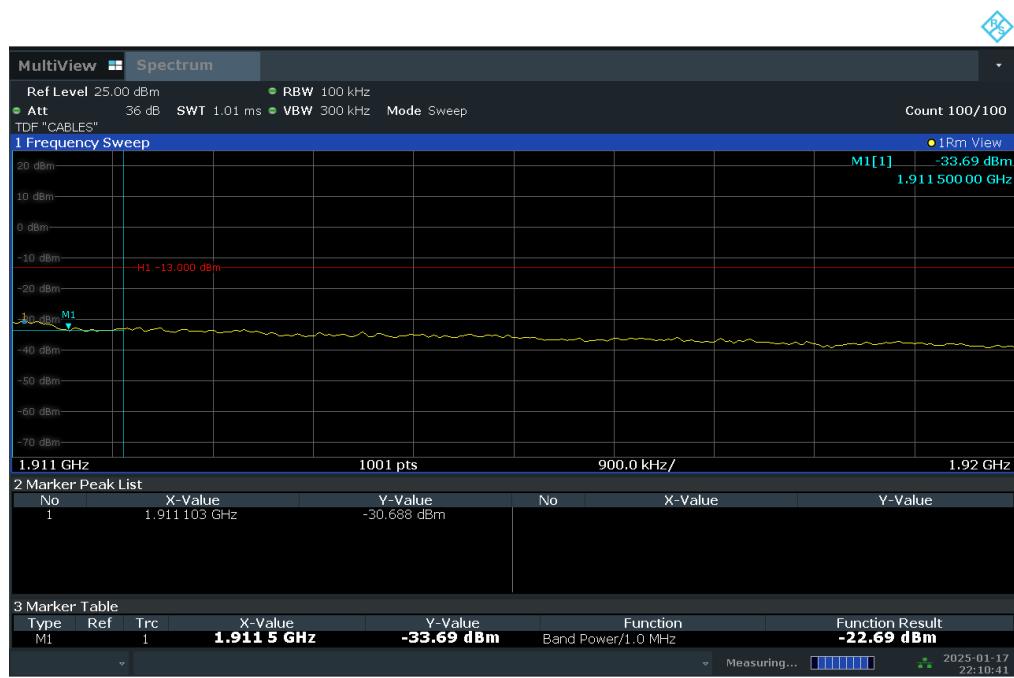


Plot 7-92. Extended Lower Band Edge Plot (LTE Band 2 – 20MHz QPSK – Full RB Configuration)

FCC ID: BCG-A3328	PART 24 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270037-02.BCG	Test Dates: 12/20/2024 - 7/25/2025	EUT Type: Watch		Page 65 of 130



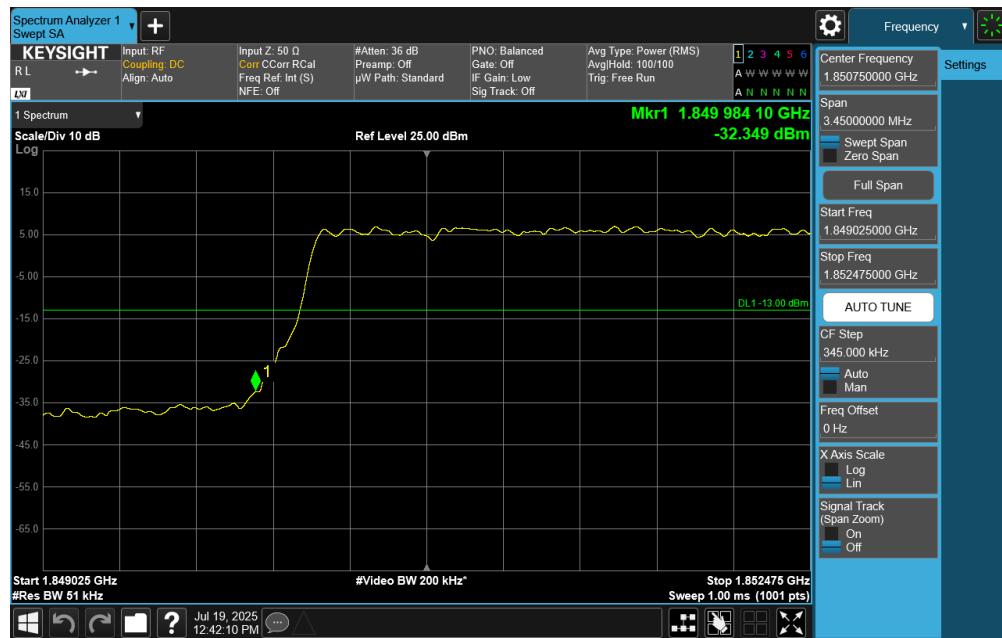
Plot 7-93. Upper Band Edge Plot (LTE Band 2 – 20MHz QPSK – Full RB Configuration)



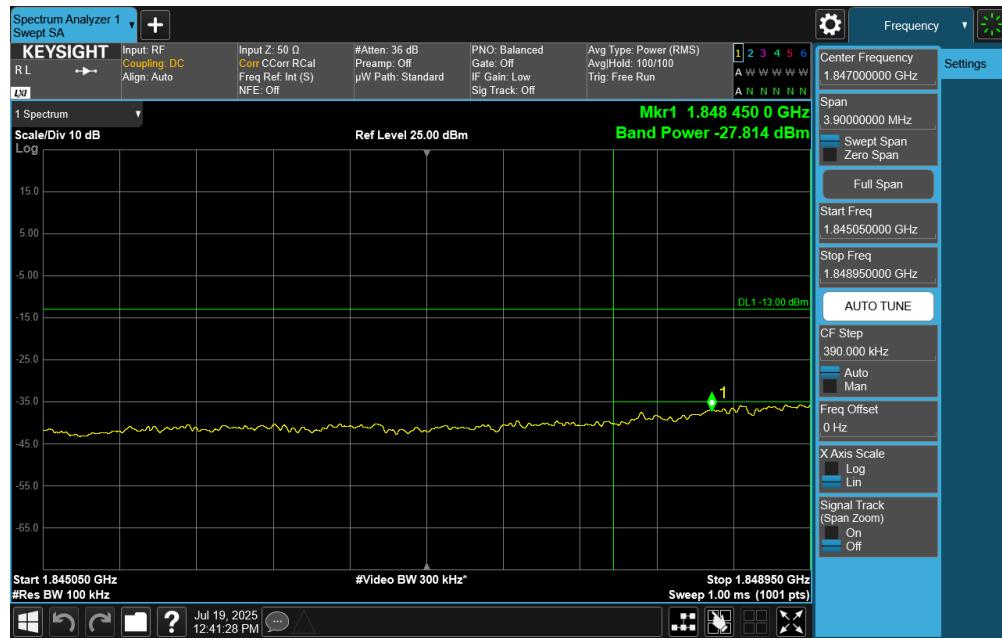
Plot 7-94. Extended Upper Band Edge Plot (LTE Band 2 – 20MHz QPSK – Full RB Configuration)

FCC ID: BCG-A3328	PART 24 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270037-02.BCG	Test Dates: 12/20/2024 - 7/25/2025	EUT Type: Watch		Page 66 of 130

NR Band n25

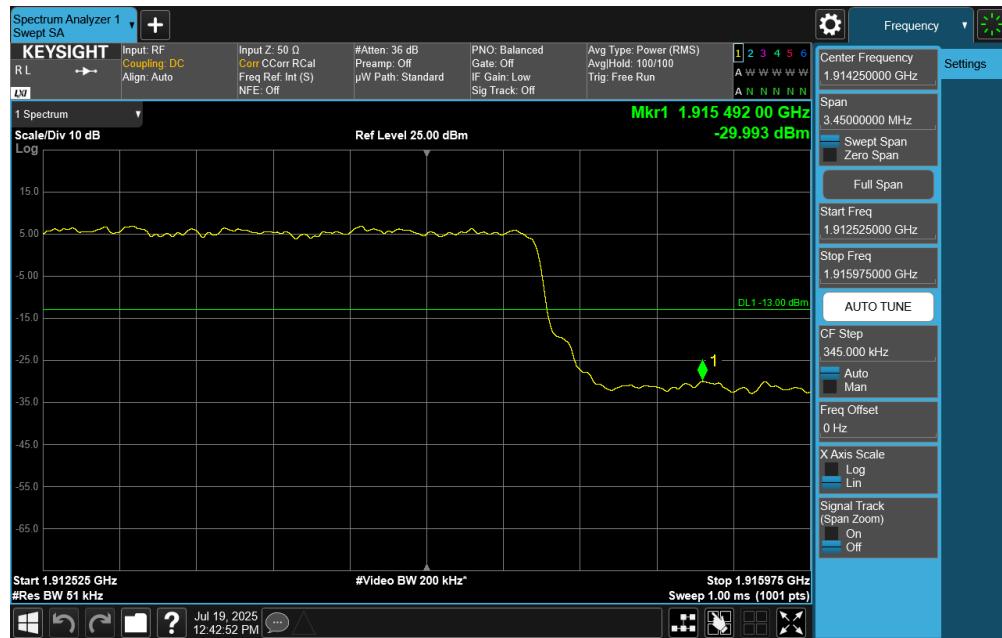


Plot 7-95. Lower Band Edge Plot (NR Band n25 – 5MHz DFT-s-OFDM $\pi/2$ QPSK – Full RB Configuration)

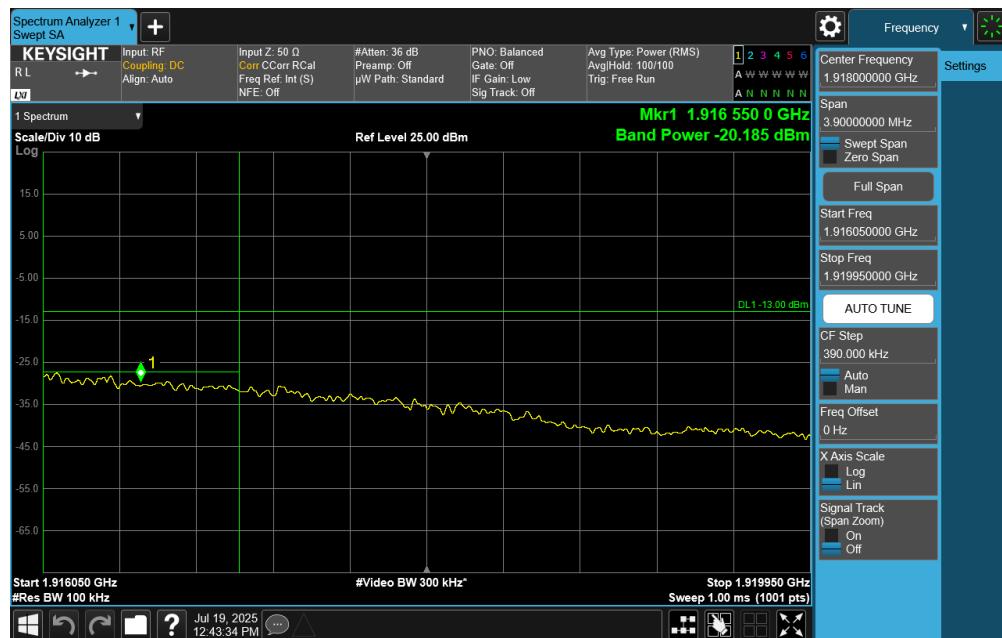


Plot 7-96. Extended Lower Band Edge Plot (NR Band n25 – 5MHz DFT-s-OFDM $\pi/2$ QPSK – Full RB Configuration)

FCC ID: BCG-A3328	 element		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270037-02.BCG	Test Dates: 12/20/2024 - 7/25/2025	EUT Type: Watch		Page 67 of 130

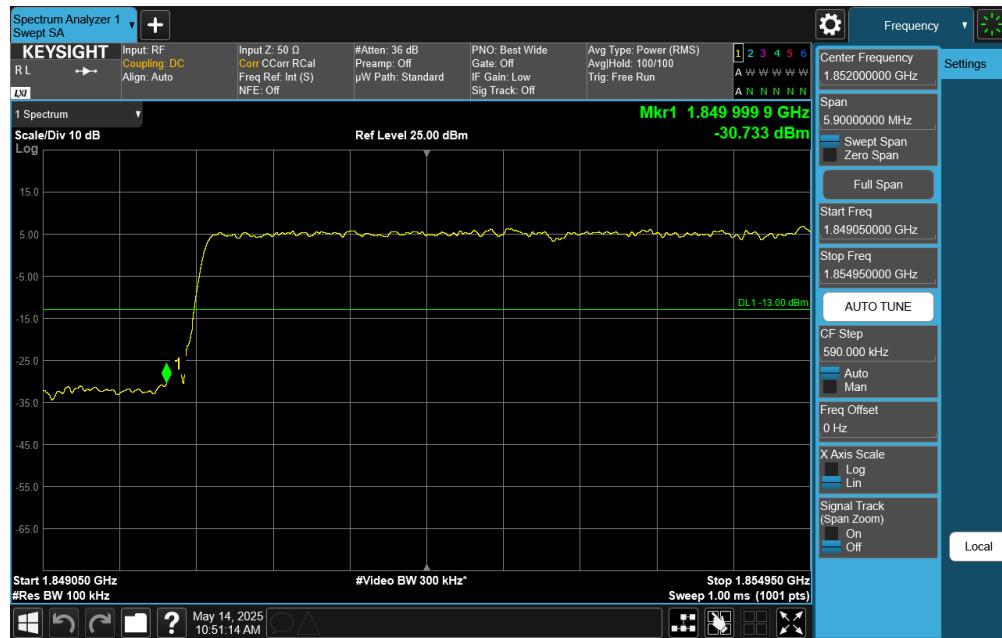


Plot 7-97. Upper Band Edge Plot (NR Band n25 – 5MHz DFT-s-OFDM $\pi/2$ QPSK – Full RB Configuration)



Plot 7-98. Extended Upper Band Edge Plot (NR Band n25 – 5MHz DFT-s- QPSK $\pi/2$ QPSK – Full RB Configuration)

FCC ID: BCG-A3328	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270037-02.BCG	Test Dates: 12/20/2024 - 7/25/2025	EUT Type: Watch	Page 68 of 130

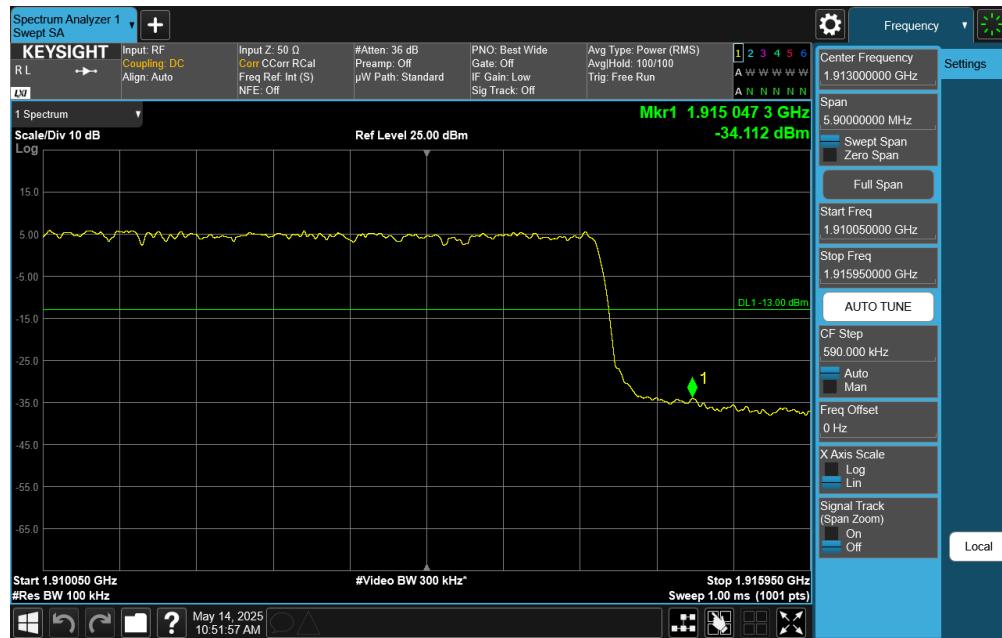


Plot 7-99. Lower Band Edge Plot (NR Band n25 – 10MHz DFT-s-OFDM $\pi/2$ BPSK – Full RB Configuration)



Plot 7-100. Extended Lower Band Edge Plot (NR Band n25 – 10MHz DFT-s-OFDM $\pi/2$ BPSK – Full RB Configuration)

FCC ID: BCG-A3328	PART 24 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270037-02.BCG	Test Dates: 12/20/2024 - 7/25/2025	EUT Type: Watch		Page 69 of 130

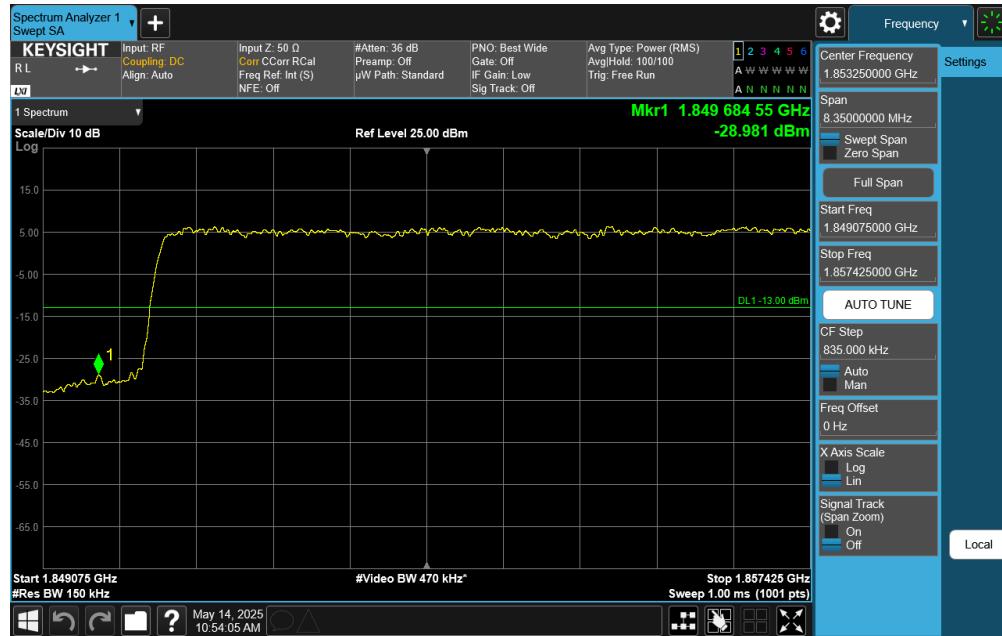


Plot 7-101. Upper Band Edge Plot (NR Band n25 – 10MHz DFT-s-OFDM π/2 BPSK – Full RB Configuration)

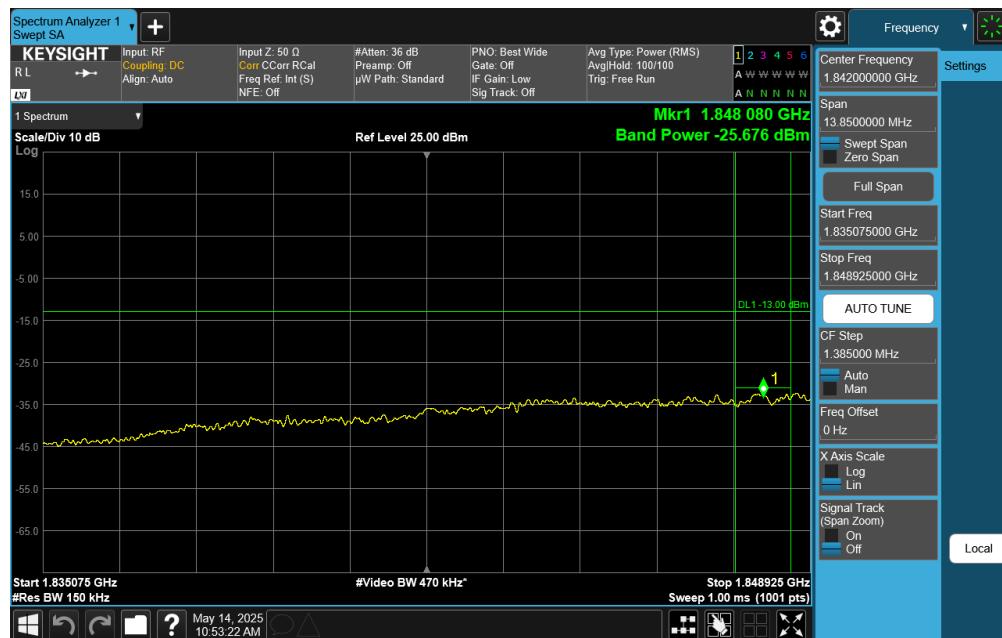


Plot 7-102. Extended Upper Band Edge Plot (NR Band n25 – 10MHz DFT-s-OFDM π/2 BPSK – Full RB Configuration)

FCC ID: BCG-A3328	element PART 24 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270037-02.BCG	Test Dates: 12/20/2024 - 7/25/2025	EUT Type: Watch		Page 70 of 130



Plot 7-103. Lower Band Edge Plot (NR Band n25 – 15MHz DFT-s-OFDM π/2 BPSK – Full RB Configuration)



Plot 7-104. Extended Lower Band Edge Plot (NR Band n25 – 15MHz DFT-s-OFDM π/2 BPSK – Full RB Configuration)

FCC ID: BCG-A3328	PART 24 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270037-02.BCG	Test Dates: 12/20/2024 - 7/25/2025	EUT Type: Watch		Page 71 of 130