



# Element Materials Technology

(formerly PCTEST)

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## PART 27 MEASUREMENT REPORT

**Applicant Name:**

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

**Date of Testing:**

4/3/2025 - 7/23/2025

**Test Report Issue Date:**

8/6/2025

**Test Site/Location:**

Element Materials Technology, Morgan Hill, CA, USA

**Test Report Serial No.:**

1C2503270032-03.BCG

**FCC ID:** BCG-A3335

**APPLICANT:** Apple Inc.

**Application Type:** Certification

**Model:** A3335, A3452

**EUT Type:** Watch

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

**FCC Rule Part:** 27

**Test Procedure(s):** ANSI C63.26-2015, ANSI/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



CERT #2041.02

FCC ID: BCG-A3335	element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270032-03.BCG	Test Dates: 4/3/2025 - 7/23/2025	EUT Type: Watch		Page 1 of 202

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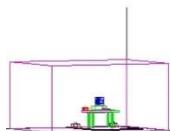
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## T A B L E   O F   C O N T E N T S

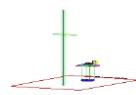
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Mode	Bandwidth	Modulation	Tx Frequency Range [MHz]	OBW [MHz]	ERP		Emission Designator
					Max. Power [mW]	Max. Power [dBm]	
LTE Band 71	5 MHz	QPSK	665.5 - 695.5	4.5475	0.237	-6.25	4M55G7W
		16QAM	665.5 - 695.5	4.5234	0.193	-7.15	4M52D7W
	10 MHz	QPSK	668.0 - 693.0	9.0232	0.237	-6.26	9M02G7W
		16QAM	668.0 - 693.0	5.1026	0.192	-7.16	5M10D7W
	15 MHz	QPSK	670.5 - 690.5	13.5230	0.242	-6.16	13M5G7W
		16QAM	670.5 - 690.5	5.3542	0.190	-7.22	5M35D7W
	20 MHz	QPSK	673.0 - 688.0	18.0184	0.243	-6.15	18M0G7W
		16QAM	673.0 - 688.0	5.5754	0.188	-7.25	5M58D7W
LTE Band 12	1.4 MHz	QPSK	699.7 - 715.3	1.0972	0.254	-5.95	1M10G7W
		16QAM	699.7 - 715.3	1.1095	0.201	-6.96	1M11D7W
	3 MHz	QPSK	700.5 - 714.5	2.7132	0.254	-5.95	2M71G7W
		16QAM	700.5 - 714.5	2.7078	0.194	-7.12	2M71D7W
	5 MHz	QPSK	701.5 - 713.5	4.5459	0.254	-5.95	4M55G7W
		16QAM	701.5 - 713.5	4.5190	0.203	-6.93	4M52D7W
	10 MHz	QPSK	704.0 - 711.0	9.0182	0.254	-5.95	9M02G7W
		16QAM	704.0 - 711.0	5.0928	0.202	-6.94	5M09D7W
LTE Band 17	5 MHz	QPSK	706.5 - 713.5	4.5459	0.242	-6.17	4M55G7W
		16QAM	706.5 - 713.5	4.5190	0.202	-6.95	4M52D7W
	10 MHz	QPSK	709.0 - 711.0	9.0182	0.254	-5.95	9M02G7W
		16QAM	709.0 - 711.0	5.0928	0.199	-7.01	5M09D7W
LTE Band 13	5 MHz	QPSK	779.5 - 784.5	4.5451	0.376	-4.25	4M55G7W
		16QAM	779.5 - 784.5	4.5205	0.291	-5.36	4M52D7W
	10 MHz	QPSK	782.0	9.0061	0.366	-4.37	9M01G7W
		16QAM	782.0	5.0840	0.301	-5.22	5M08D7W

Overview Table (<1GHz Band)

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Mode	Bandwidth	Modulation	Tx Frequency Range [MHz]	OBW [MHz]	ERP		Emission Designator
					Max. Power [mW]	Max. Power [dBm]	
NR Band n71	5 MHz	π/2 BPSK	665.5 - 695.5	4.4903	0.243	-6.15	4M49G7W
		QPSK	665.5 - 695.5	4.4870	0.242	-6.16	4M49G7W
		16QAM	665.5 - 695.5	4.4829	0.191	-7.20	4M48D7W
		64QAM	665.5 - 695.5	4.4554	0.154	-8.12	4M46D7W
	10 MHz	π/2 BPSK	668.0 - 693.0	8.9161	0.240	-6.19	8M92G7W
		QPSK	668.0 - 693.0	9.3076	0.243	-6.15	9M31G7W
		16QAM	668.0 - 693.0	9.2839	0.191	-7.18	9M28D7W
		64QAM	668.0 - 693.0	9.2755	0.153	-8.15	9M28D7W
	15 MHz	π/2 BPSK	670.5 - 690.5	13.3980	0.243	-6.15	13M4G7W
		QPSK	670.5 - 690.5	14.1670	0.237	-6.26	14M2G7W
		16QAM	670.5 - 690.5	14.0910	0.194	-7.13	14M1D7W
		64QAM	670.5 - 690.5	14.1190	0.149	-8.26	14M1D7W
	20 MHz	π/2 BPSK	673.0 - 688.0	17.8750	0.235	-6.29	17M9G7W
		QPSK	673.0 - 688.0	18.9520	0.243	-6.15	19M0G7W
		16QAM	673.0 - 688.0	18.8920	0.192	-7.17	18M9D7W
		64QAM	673.0 - 688.0	18.9360	0.154	-8.13	18M9D7W
NR Band n12	5 MHz	π/2 BPSK	701.5 - 713.5	4.4878	0.254	-5.95	4M49G7W
		QPSK	701.5 - 713.5	4.5042	0.252	-5.98	4M50G7W
		16QAM	701.5 - 713.5	4.4588	0.200	-6.98	4M46D7W
		64QAM	701.5 - 713.5	4.4868	0.161	-7.94	4M49D7W
	10 MHz	π/2 BPSK	704.0 - 711.0	8.9359	0.254	-5.95	8M94G7W
		QPSK	704.0 - 711.0	9.3098	0.253	-5.97	9M31G7W
		16QAM	704.0 - 711.0	9.3028	0.197	-7.05	9M30D7W
		64QAM	704.0 - 711.0	9.2624	0.160	-7.95	9M26D7W
	15 MHz	π/2 BPSK	706.5 - 708.5	13.4790	0.254	-5.95	13M5G7W
		QPSK	706.5 - 708.5	14.1430	0.253	-5.97	14M1G7W
		16QAM	706.5 - 708.5	14.1050	0.202	-6.95	14M1D7W
		64QAM	706.5 - 708.5	14.1050	0.160	-7.95	14M1D7W

Overview Table (<1GHz Band)

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Mode	Bandwidth	Modulation	Tx Frequency Range [MHz]	OBW [MHz]	PAR at 0.1% [dB]	EIRP		Emission Designator
						Max. Power [mW]	Max. Power [dBm]	
LTE Band 4	1.4 MHz	QPSK	1710.7 - 1754.3	1.0970	5.21	17.783	12.50	1M10G7W
		16QAM	1710.7 - 1754.3	1.1100	5.92	14.191	11.52	1M11D7W
	3 MHz	QPSK	1711.5 - 1753.5	2.7133	5.27	17.783	12.50	2M71G7W
		16QAM	1711.5 - 1753.5	2.7100	5.84	13.964	11.45	2M71D7W
	5 MHz	QPSK	1712.5 - 1752.5	4.5457	5.34	17.783	12.50	4M55G7W
		16QAM	1712.5 - 1752.5	4.5196	5.92	14.191	11.52	4M52D7W
	10MHz	QPSK	1715.0 - 1750.0	9.0267	5.37	17.783	12.50	9M03G7W
		16QAM	1715.0 - 1750.0	5.0739	5.83	14.125	11.50	5M07D7W
	15 MHz	QPSK	1717.5 - 1747.5	13.5209	5.47	17.783	12.50	13M5G7W
		16QAM	1717.5 - 1747.5	5.3522	5.82	13.836	11.41	5M35D7W
	20 MHz	QPSK	1720.0 - 1745.0	18.0491	5.30	17.579	12.45	18M0G7W
		16QAM	1720.0 - 1745.0	5.5266	5.76	14.093	11.49	5M53D7W
LTE Band 66	1.4 MHz	QPSK	1710.7 - 1779.3	1.0970	5.18	17.783	12.50	1M10G7W
		16QAM	1710.7 - 1779.3	1.1100	6.09	14.158	11.51	1M11D7W
	3 MHz	QPSK	1711.5 - 1778.5	2.7133	5.21	17.783	12.50	2M71G7W
		16QAM	1711.5 - 1778.5	2.7100	5.94	14.191	11.52	2M71D7W
	5 MHz	QPSK	1712.5 - 1777.5	4.5457	5.32	17.783	12.50	4M55G7W
		16QAM	1712.5 - 1777.5	4.5196	5.95	14.028	11.47	4M52D7W
	10 MHz	QPSK	1715.0 - 1775.0	9.0267	5.37	17.783	12.50	9M03G7W
		16QAM	1715.0 - 1775.0	5.0739	5.79	13.900	11.43	5M07D7W
	15 MHz	QPSK	1717.5 - 1772.5	13.5209	5.38	17.498	12.43	13M5G7W
		16QAM	1717.5 - 1772.5	5.3522	5.78	14.322	11.56	5M35D7W
	20 MHz	QPSK	1720.0 - 1770.0	18.0491	5.22	17.783	12.50	18M0G7W
		16QAM	1720.0 - 1770.0	5.5266	5.74	13.804	11.40	5M53D7W
NR Band n66	5 MHz	π/2 BPSK	1712.5 - 1777.5	4.4971	4.31	17.378	12.40	4M50G7W
		QPSK	1712.5 - 1777.5	4.4673	5.27	17.783	12.50	4M47G7W
		16QAM	1712.5 - 1777.5	4.4731	5.94	13.836	11.41	4M47D7W
		64QAM	1712.5 - 1777.5	4.4631	6.40	11.246	10.51	4M46D7W
	10 MHz	π/2 BPSK	1715.0 - 1775.0	8.9537	4.25	17.701	12.48	8M95G7W
		QPSK	1715.0 - 1775.0	9.2669	5.42	17.783	12.50	9M27G7W
		16QAM	1715.0 - 1775.0	9.3453	6.12	14.093	11.49	9M35D7W
		64QAM	1715.0 - 1775.0	9.2756	6.39	11.117	10.46	9M28D7W
	15 MHz	π/2 BPSK	1717.5 - 1772.5	13.4510	4.19	17.701	12.48	13M5G7W
		QPSK	1717.5 - 1772.5	14.1740	5.27	17.783	12.50	14M2G7W
		16QAM	1717.5 - 1772.5	14.1210	6.02	14.223	11.53	14M1D7W
		64QAM	1717.5 - 1772.5	14.1700	6.10	11.246	10.51	14M2D7W
	20 MHz	π/2 BPSK	1720.0 - 1770.0	17.8390	4.24	17.783	12.50	17M8G7W
		QPSK	1720.0 - 1770.0	18.9650	5.19	17.539	12.44	19M0G7W
		16QAM	1720.0 - 1770.0	18.9920	5.73	13.996	11.46	19M0D7W
		64QAM	1720.0 - 1770.0	18.9340	6.34	11.143	10.47	18M9D7W

**Overview Table**

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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 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-A3335**. 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 27.

**Test Device Serial No.:** MC7DP4YMFH, PTQKY2MRPK, MW77GPK6KL, DLCHFZ000GE0000Q4C

### 2.2 Device Capabilities

This device contains the following capabilities:

Multi-band LTE, 5G NR (FR1), 802.11b/g/n WLAN, 802.11a/n UNII, 802.15.4ab-NB, Bluetooth (1x, EDR, HDR4, HDR8, LE1M, LE2M), NFC, UWB, 60.5GHz Transmitter.

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	802.15.4ab - NB	LTE/FR1	UNII	UWB
	802.11 b/g/n	BDR, EDR, HDR4/8, LE1/2M	O-QPSK	Mid/High Band	802.11 a/n	Ch.5/Ch.9
Config 1	✓	✗	✗	✓	✗	✓
Config 2	✗	✓	✗	✓	✗	✓
Config 3	✗	✓	✓	✓	✗	✗
Config 4	✓	✗	✓	✓	✗	✗
Config 5	✗	✓	✗	✓	✓	✗
Config 6	✗	✓	✗	✓	✗	✓
Config 7	✓	✗	✗	✓	✗	✗
Config 8	✓	✗	✓	✗	✗	✗
Config 9	✓	✗	✗	✗	✗	✓
Config 10	✗	✓	✗	✗	✓	✗
Config 11	✗	✓	✗	✓	✗	✗
Config 12	✗	✓	✓	✗	✗	✗
Config 13	✗	✓	✗	✗	✗	✓
Config 14	✗	✗	✓	✓	✗	✗
Config 15	✗	✗	✗	✓	✓	✗
Config 16	✗	✗	✗	✓	✗	✓

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 5, reported in RF Bluetooth, RF UNII, and RF Part 27b test reports.

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## 2.3 Antenna Description

The following antenna gains provided by manufacturer were used for testing.

Band	Antenna Gain [dBi]	
	Antenna BCM	Antenna FCM
LTE Band 12/17	-29.5	-
NR Band n12		
LTE Band 13	-27.8	-
LTE Band 71	-29.7	-
NR Band n71		
LTE Band 66/4	-	-12.7
NR Band n66		

Table 2-2. Highest Antenna Gain

## 2.4 Test Support Equipment

1	Apple Macbook w/AC/DC Adapter	Model: A1398	S/N: FVFDHG8TP3XY	
		Model: A1435	S/N: N/A	
2	Apple USB-C cable w/ Charging Dock	Model: N/A A3276	S/N: N/A DQ84112013F08V22Z	
	w/ Cradle	Model: N/A	S/N: CYV4023011Y23SE01MP1F	
3	Apple Magnetic Charger Apple Magnetic Charger	Model: A2515 A2879	S/N: DLC313306ZQ1NR1A7 DLCH5T0012A00000WB	
4	Pathfinder Davenport SiP Socket	Model: 920-15901-01 P1 N22X S PF 159	S/N: DLCH64000270000QA0 DLCH8J000H50000WXE	
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 all combinations of the two materials, aluminum, and titanium, and 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.

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 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.

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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
Radiated Disturbance (>18GHz)	5.22

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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	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-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:**

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 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**

LTE 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-A3335

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	<span style="background-color: #00AEEF; border: 1px solid #00AEEF; color: white; padding: 2px 5px;">N/A</span>	Section 7.2
	Conducted Band Edge / Spurious Emissions	2.1051, 27.53	-13 dBm at Band Edge and for all out-of-band emissions	<span style="background-color: #00AEEF; border: 1px solid #00AEEF; color: white; padding: 2px 5px;">PASS</span>	Sections 7.3, 7.4
	Conducted Band Edge / Spurious Emissions (LTE Band 13)	2.1051, 27.53	-13 dBm for all out-of-band emissions < -70 dBW/MHz (for wideband signals) < -80 dBW (for discrete emissions less than 700Hz BW) For all emissions in the band 1559 - 1610 MHz	<span style="background-color: #00AEEF; border: 1px solid #00AEEF; color: white; padding: 2px 5px;">PASS</span>	Sections 7.3, 7.4
	Peak-Average Ratio	27.50(d)(5)	< 13 dB	<span style="background-color: #00AEEF; border: 1px solid #00AEEF; color: white; padding: 2px 5px;">PASS</span>	Section 7.5
	Transmitter Conducted Output Power	2.1046	N/A	<span style="background-color: #00AEEF; border: 1px solid #00AEEF; color: white; padding: 2px 5px;">N/A</span>	See RF Exposure Report
	Frequency Stability	2.1055, 27.54	Fundamental emissions stay within authorized frequency block over the temperature and voltage range as tested	<span style="background-color: #00AEEF; border: 1px solid #00AEEF; color: white; padding: 2px 5px;">PASS</span>	Section 7.8
	Effective Radiated Power / Equivalent Isotropic Radiated Power (LTE Band 71)	27.50(b)(10)	< 3 Watts max. ERP	<span style="background-color: #00AEEF; border: 1px solid #00AEEF; color: white; padding: 2px 5px;">PASS</span>	Section 7.6
	Effective Radiated Power / Equivalent Isotropic Radiated Power (NR Band n71)			<span style="background-color: #00AEEF; border: 1px solid #00AEEF; color: white; padding: 2px 5px;">PASS</span>	Section 7.6
	Effective Radiated Power / Equivalent Isotropic Radiated Power (LTE Band 12/17)			<span style="background-color: #00AEEF; border: 1px solid #00AEEF; color: white; padding: 2px 5px;">PASS</span>	Section 7.6
	Effective Radiated Power / Equivalent Isotropic Radiated Power (NR Band 12)			<span style="background-color: #00AEEF; border: 1px solid #00AEEF; color: white; padding: 2px 5px;">PASS</span>	Section 7.6
	Effective Radiated Power / Equivalent Isotropic Radiated Power (LTE Band 13)	27.50(c)(10)	< 3 Watts max. ERP	<span style="background-color: #00AEEF; border: 1px solid #00AEEF; color: white; padding: 2px 5px;">PASS</span>	Section 7.6
	Equivalent Isotropic Radiated Power (NR Band n66)	27.50(d)(4)	< 1 Watts max. EIRP	<span style="background-color: #00AEEF; border: 1px solid #00AEEF; color: white; padding: 2px 5px;">PASS</span>	Section 7.6
	Equivalent Isotropic Radiated Power (LTE Band 4/66)			<span style="background-color: #00AEEF; border: 1px solid #00AEEF; color: white; padding: 2px 5px;">PASS</span>	Section 7.6
RADIATED	Radiated Spurious Emissions (LTE Band 13)	2.1053, 27.53(f)	-13 dBm for all out-of-band emissions < -70 dBW/MHz (for wideband signals) < -80 dBW (for discrete emissions less than 700Hz BW) For all emissions in the band 1559 - 1610 MHz	<span style="background-color: #00AEEF; border: 1px solid #00AEEF; color: white; padding: 2px 5px;">PASS</span>	Section 7.7
	Radiated Spurious Emissions	2.1053, 27.53	-13 dBm for all out-of-band emissions	<span style="background-color: #00AEEF; border: 1px solid #00AEEF; color: white; padding: 2px 5px;">PASS</span>	Section 7.7

Table 7-1. Summary of Test Results

FCC ID: BCG-A3335	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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**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 EMC Software Tool v1.1.
5. For radiated emission, 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 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

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## Test Setup

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

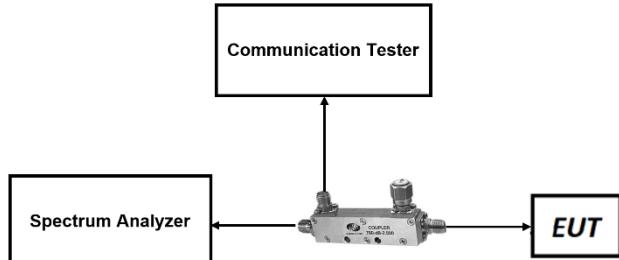


Figure 7-1. LTE Test Instrument & Measurement Setup

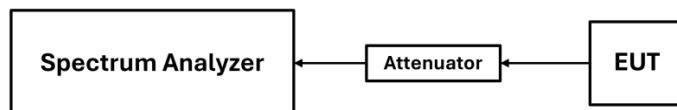


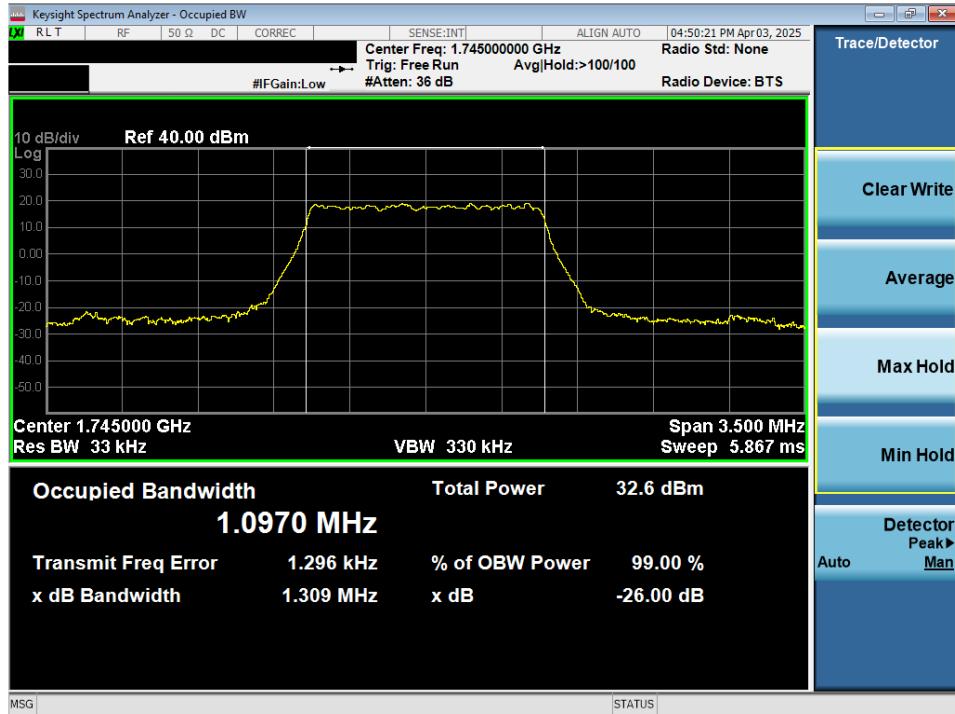
Figure 7-2. FR1 Test Instrument & Measurement Setup

## Test Notes

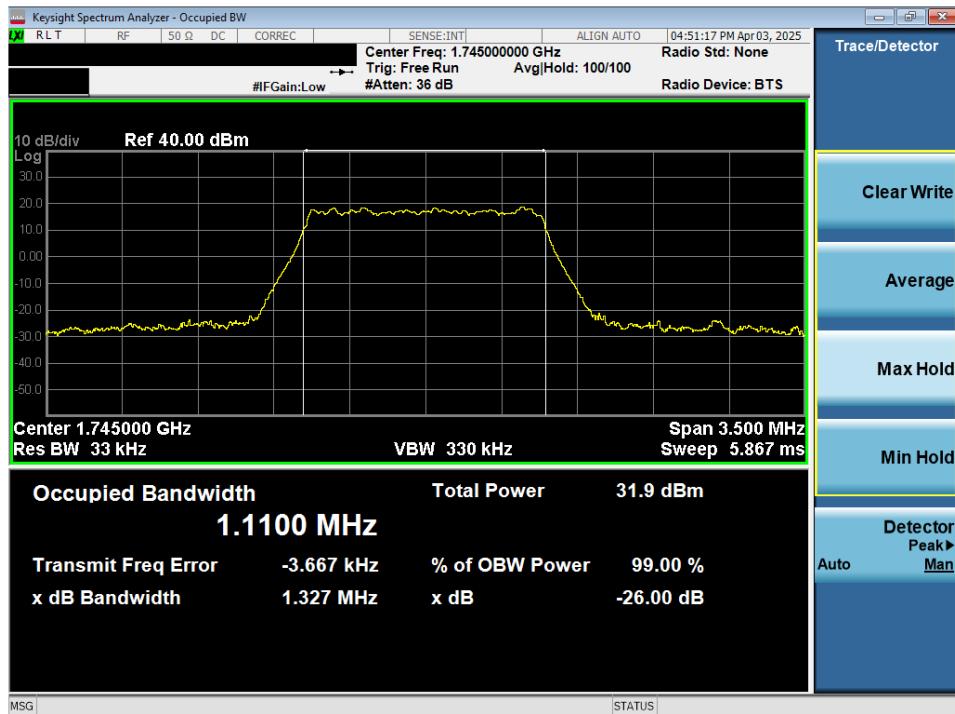
1. For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

FCC ID: BCG-A3335	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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## LTE Band 66/4

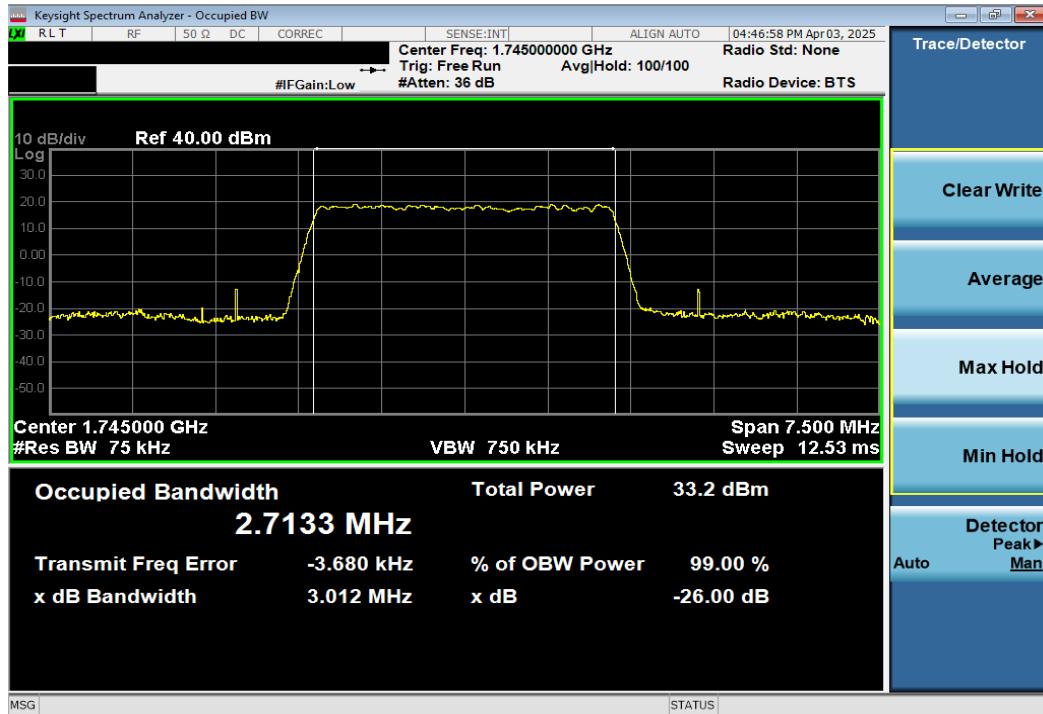


## Plot 7-1. Occupied Bandwidth Plot (LTE Band 66/4 - 1.4MHz QPSK - Full RB)

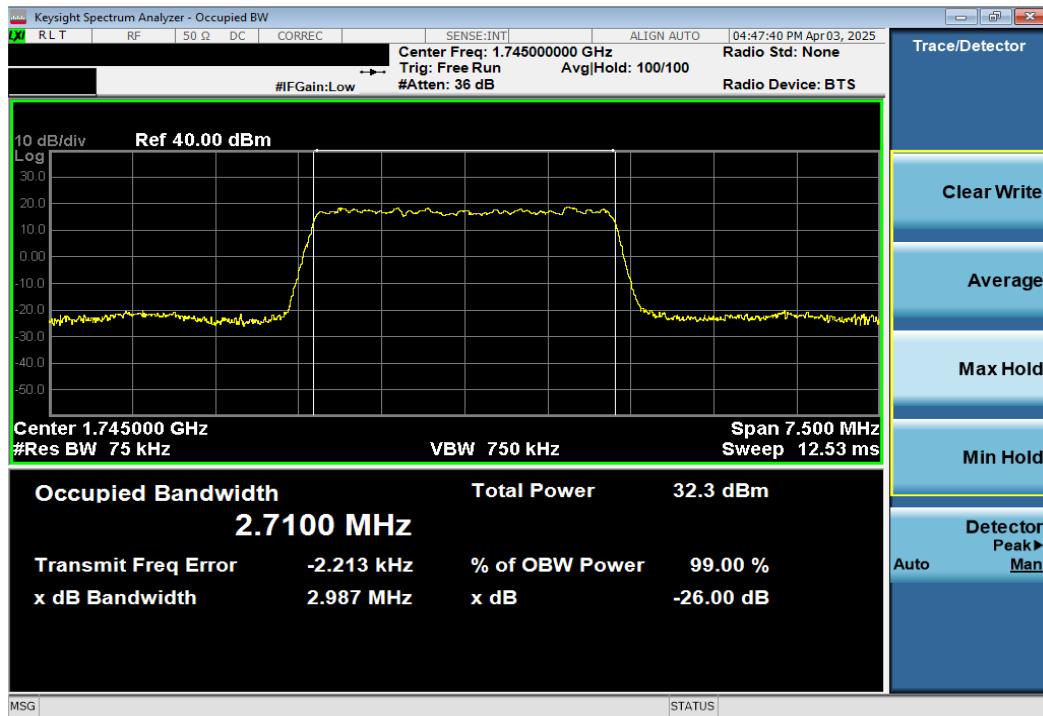


## Plot 7-2. Occupied Bandwidth Plot (LTE Band 66/4 - 1.4MHz 16-QAM - Full RB)

FCC ID: BCG-A3335	e element PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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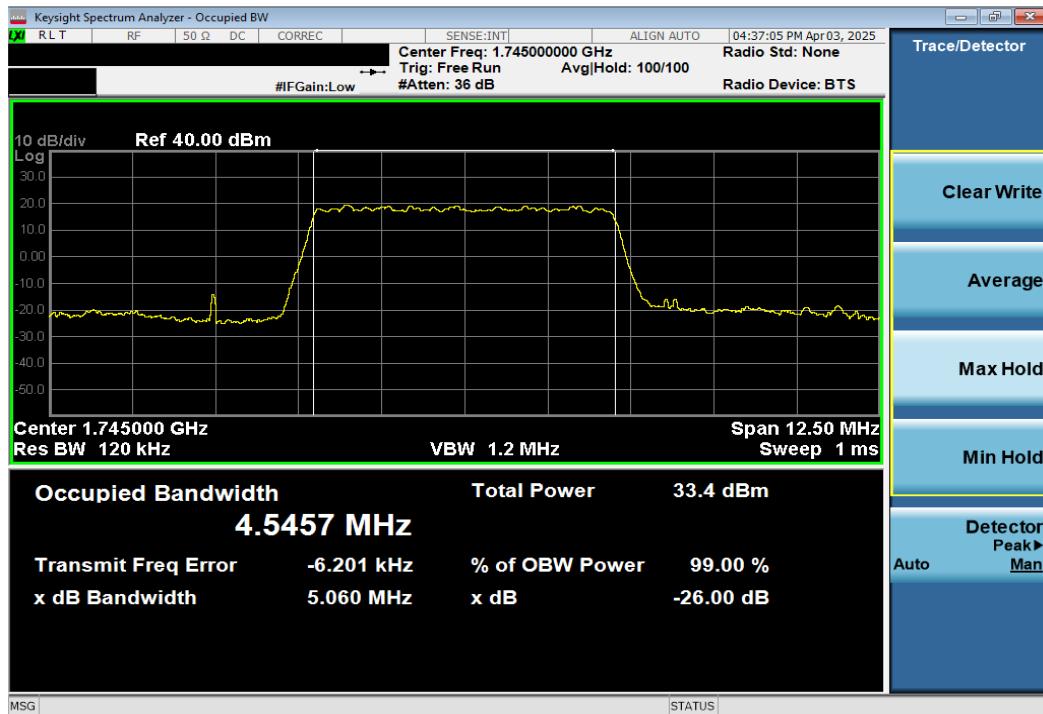


Plot 7-3. Occupied Bandwidth Plot (LTE Band 66/4 - 3MHz QPSK - Full RB)

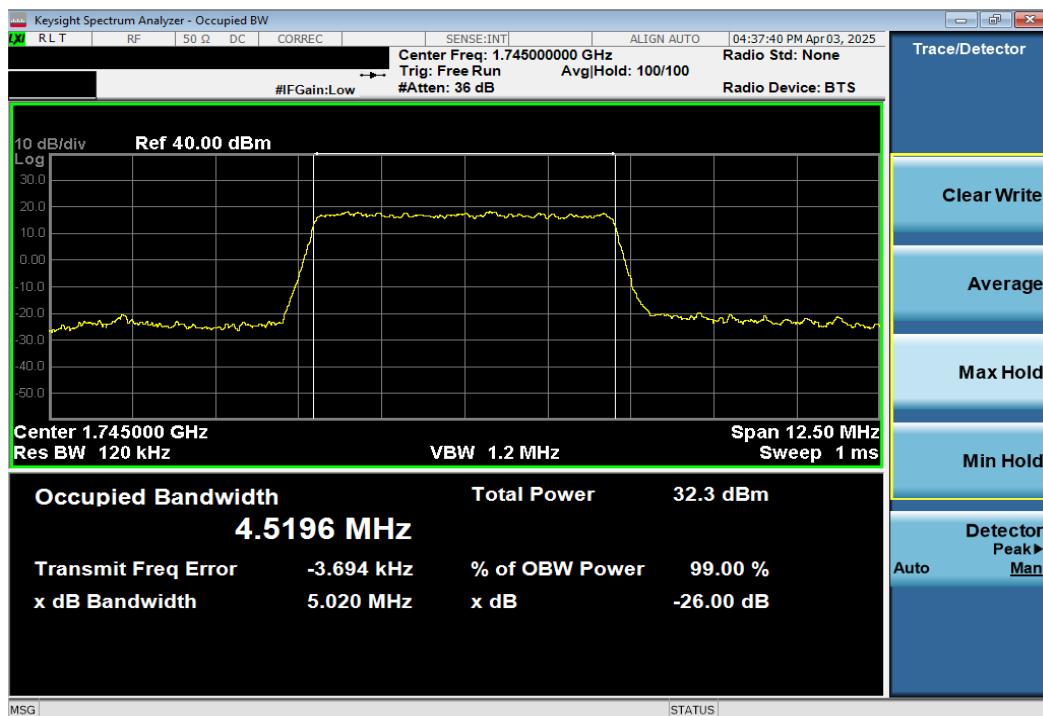


Plot 7-4. Occupied Bandwidth Plot (LTE Band 66/4 - 3MHz 16-QAM - Full RB)

FCC ID: BCG-A3335	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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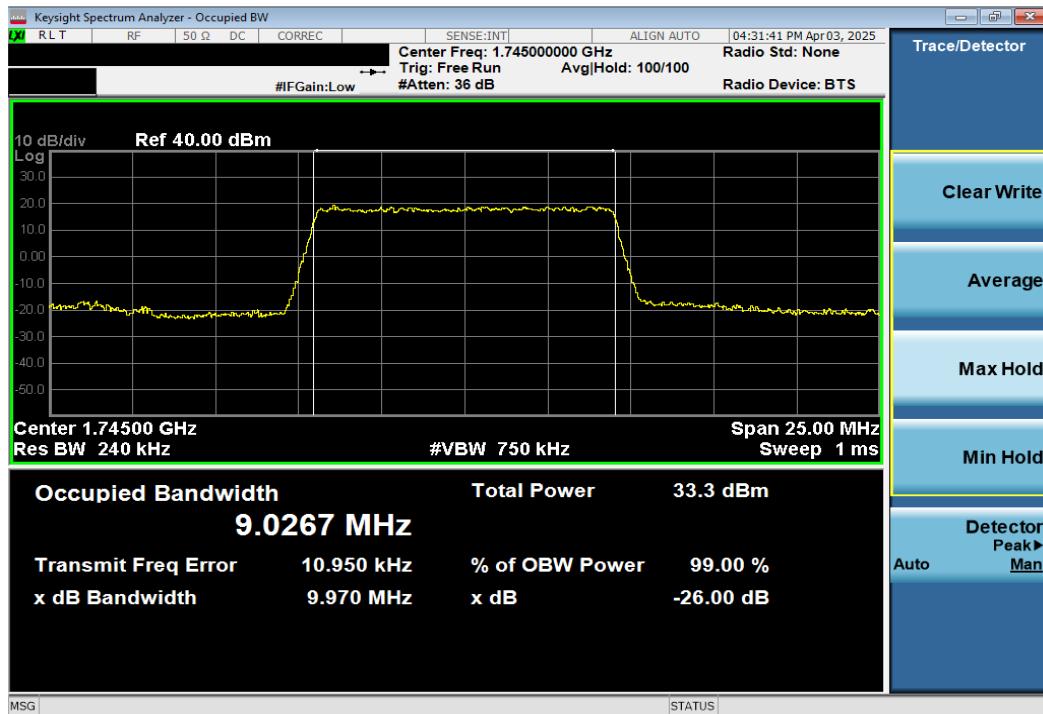


Plot 7-5. Occupied Bandwidth Plot (LTE Band 66/4 - 5MHz QPSK - Full RB)

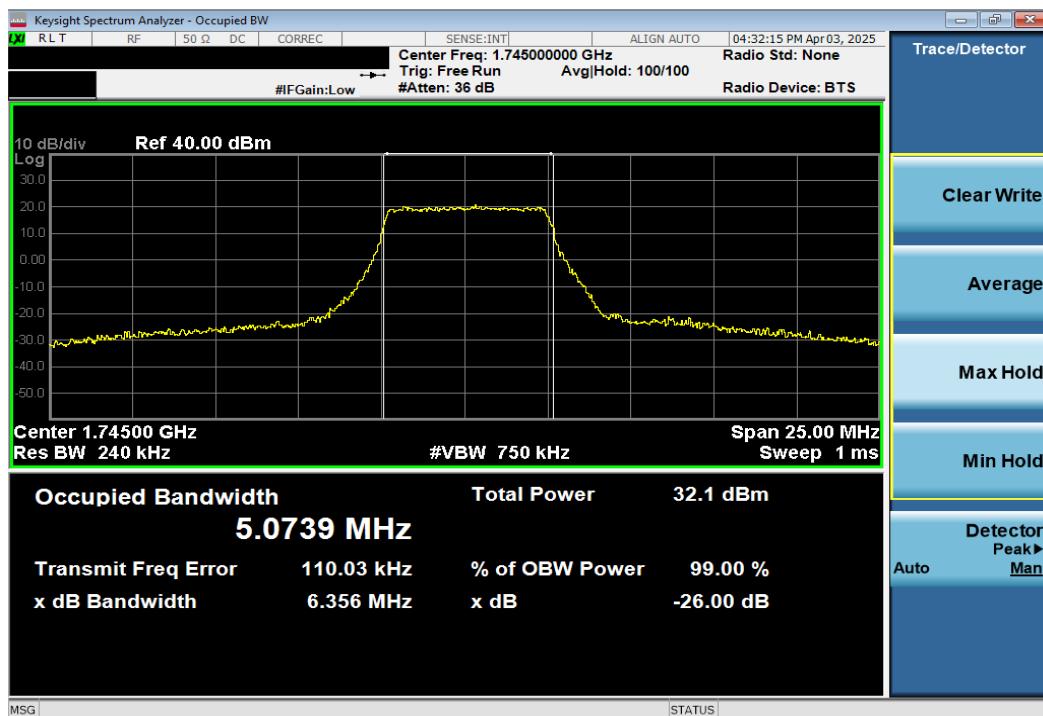


Plot 7-6. Occupied Bandwidth Plot (LTE Band 66/4 - 5MHz 16-QAM - Full RB)

FCC ID: BCG-A3335	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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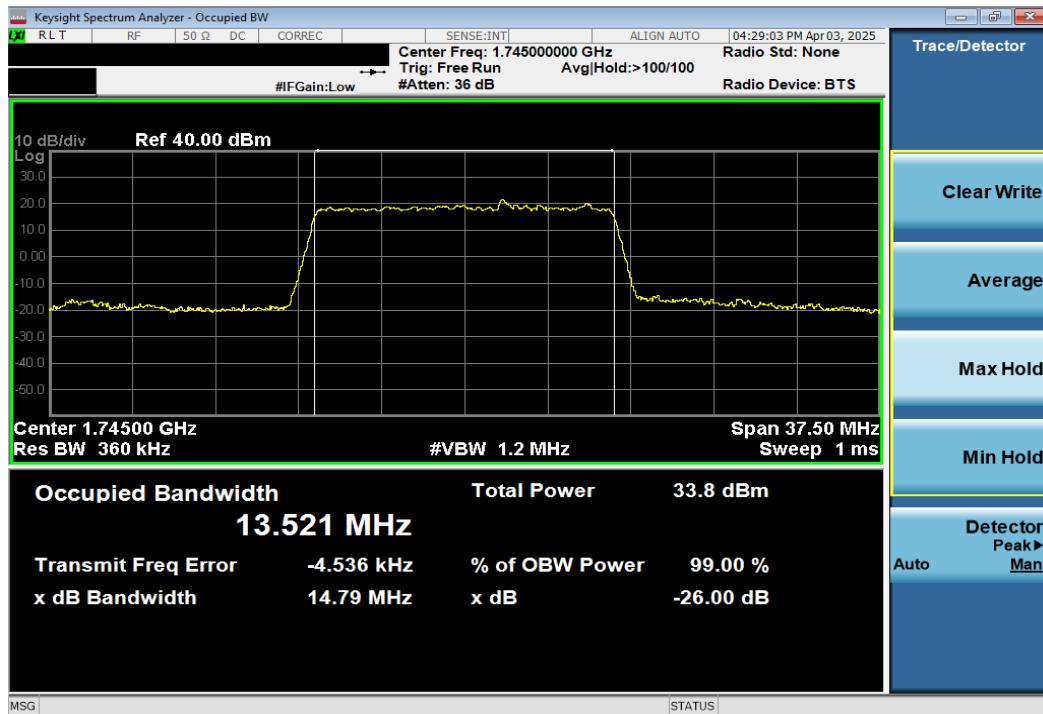


Plot 7-7. Occupied Bandwidth Plot (LTE Band 66/4 - 10MHz QPSK - Full RB)

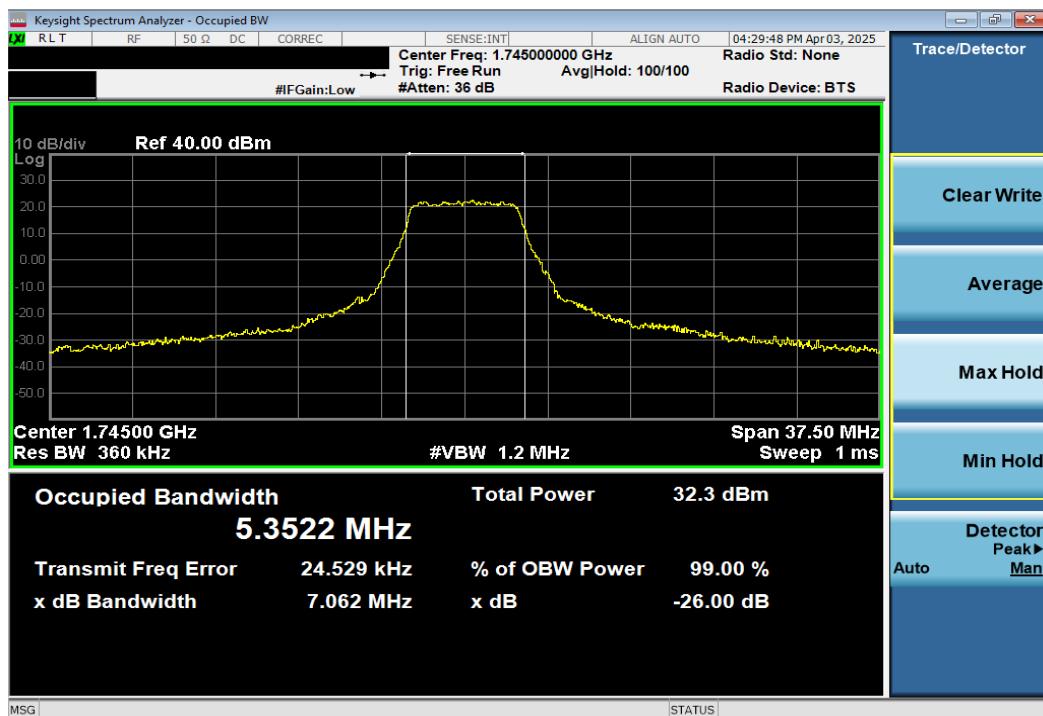


Plot 7-8. Occupied Bandwidth Plot (LTE Band 66/4 - 10MHz 16-QAM - Full RB)

FCC ID: BCG-A3335	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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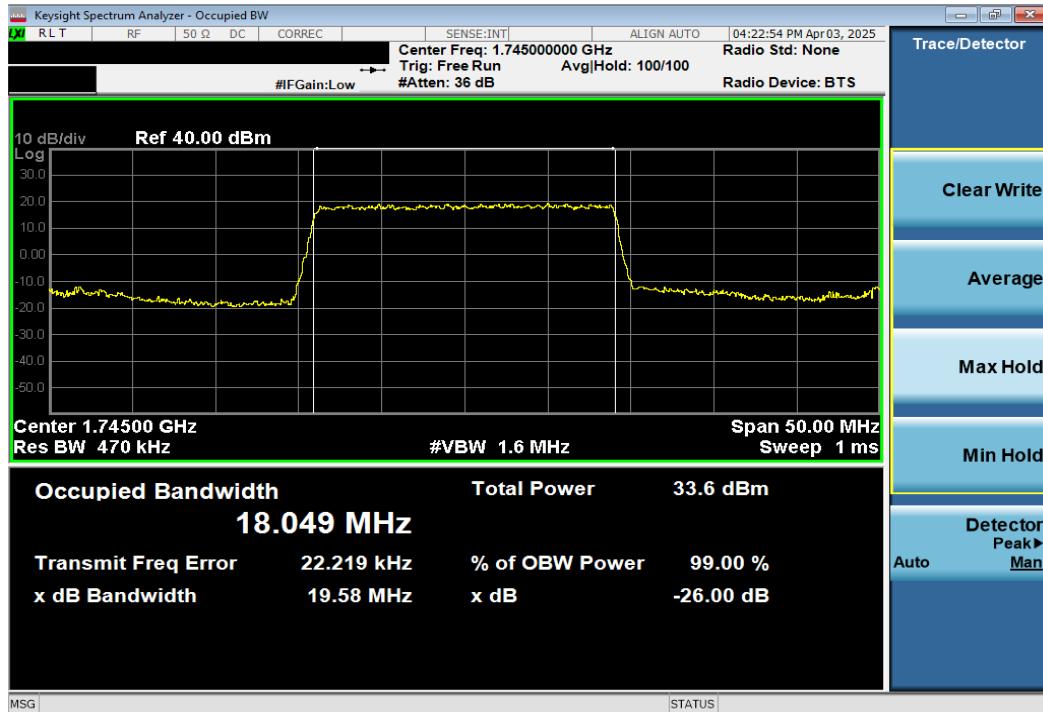


Plot 7-9. Occupied Bandwidth Plot (LTE Band 66/4 - 15MHz QPSK - Full RB)

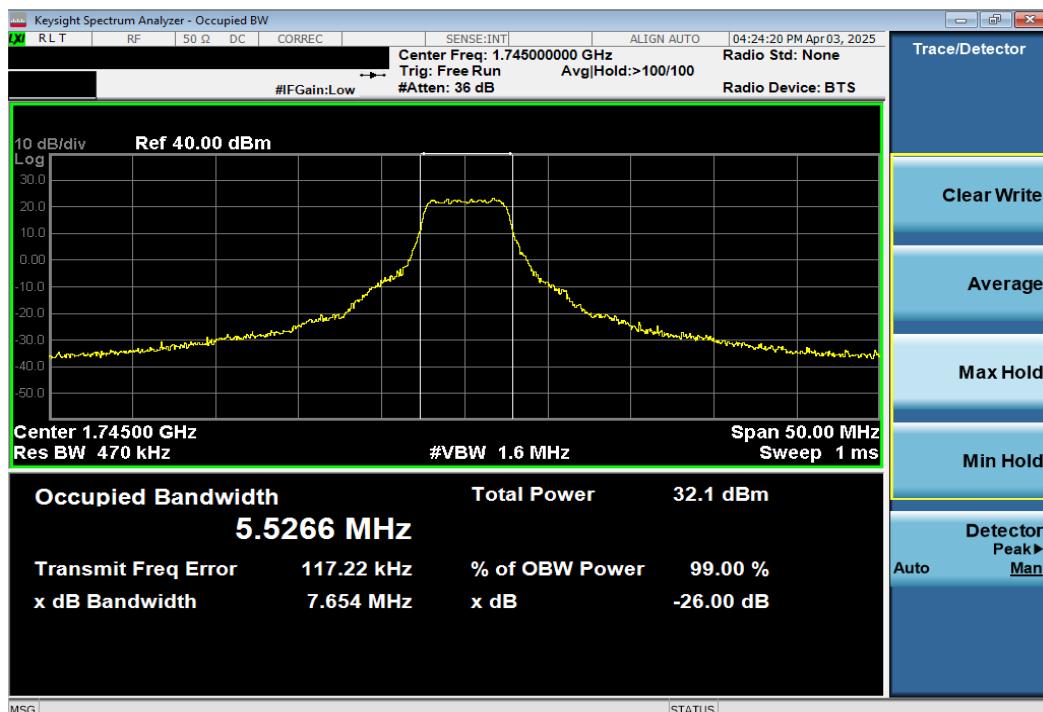


Plot 7-10. Occupied Bandwidth Plot (LTE Band 66/4 - 15MHz 16-QAM - Full RB)

FCC ID: BCG-A3335	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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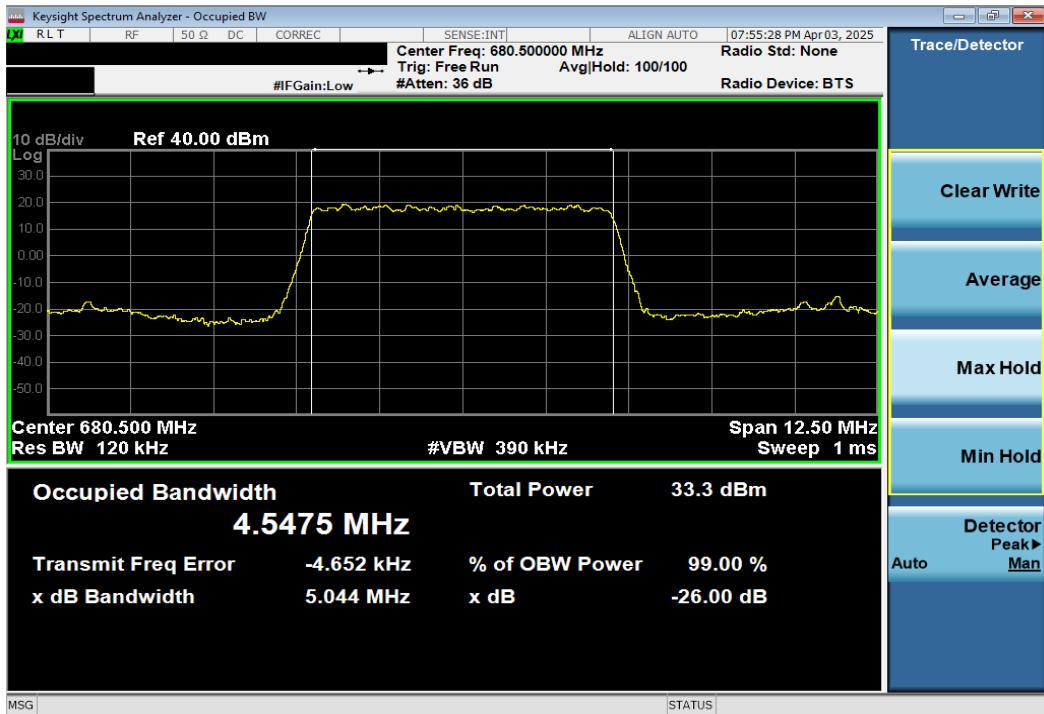
Plot 7-11. Occupied Bandwidth Plot (LTE Band 66/4 - 20MHz QPSK - Full RB)



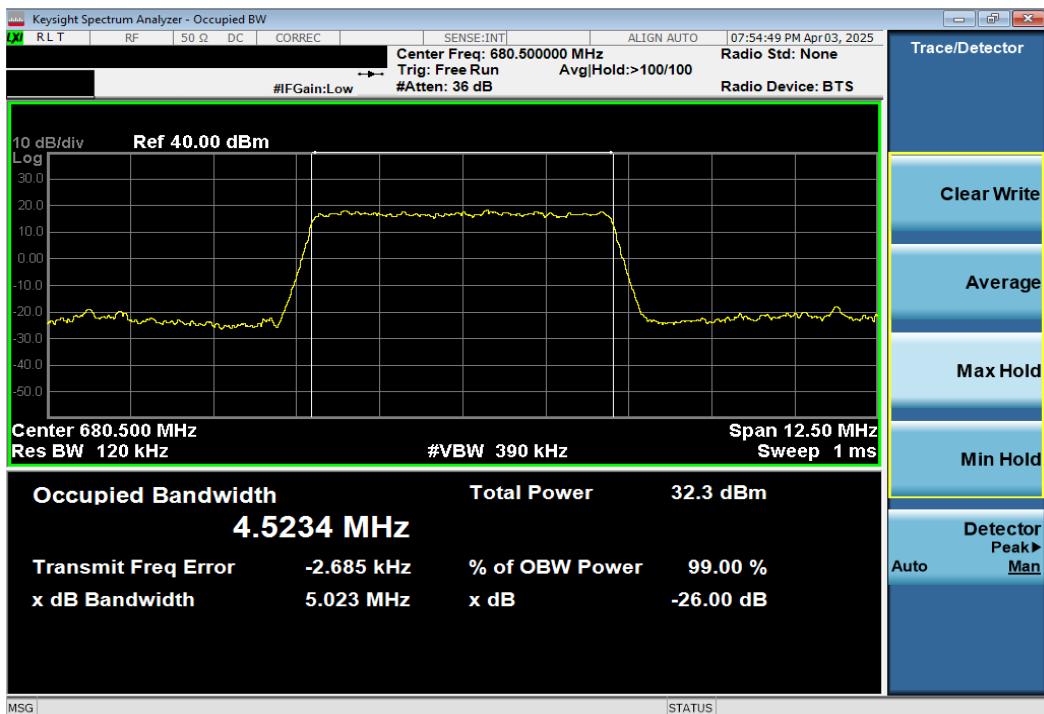
Plot 7-12. Occupied Bandwidth Plot (LTE Band 66/4 - 20MHz 16-QAM - Full RB)

FCC ID: BCG-A3335	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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## LTE Band 71

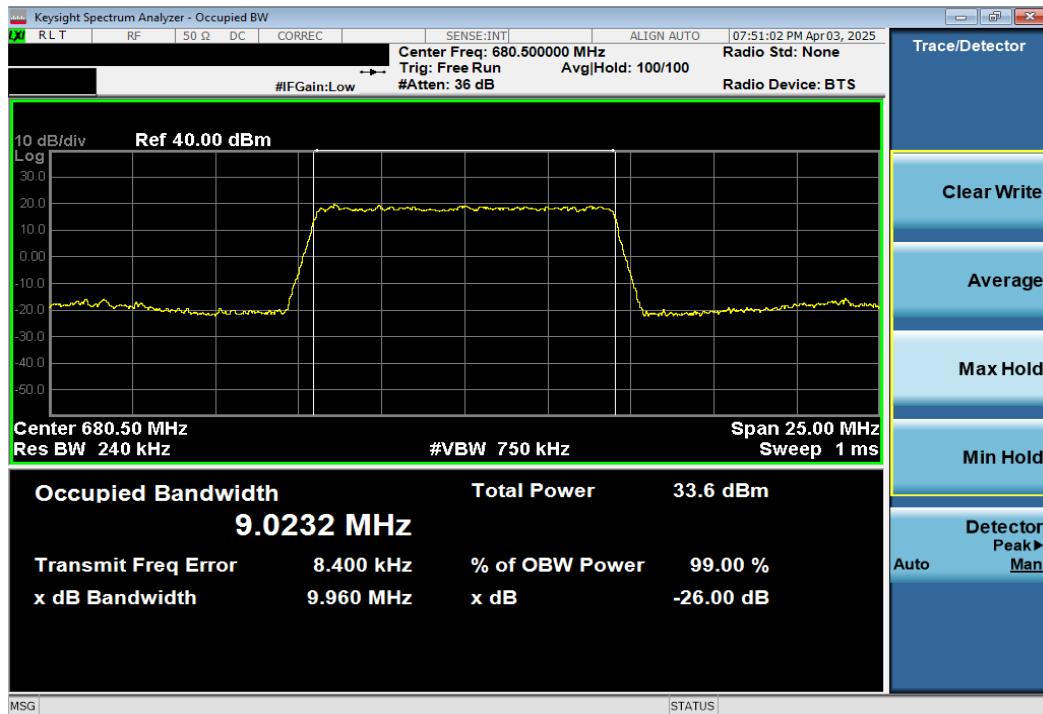


Plot 7-13. Occupied Bandwidth Plot (LTE Band 71 - 5MHz QPSK - Full RB)

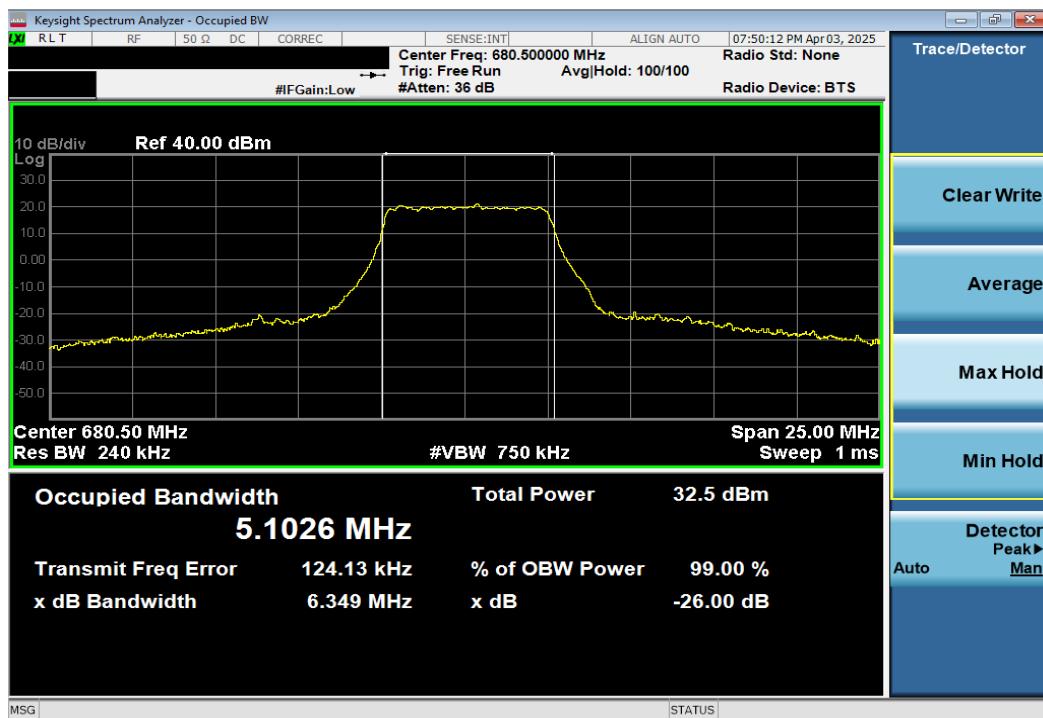


Plot 7-14. Occupied Bandwidth Plot (LTE Band 71 - 5MHz 16-QAM - Full RB)

FCC ID: BCG-A3335	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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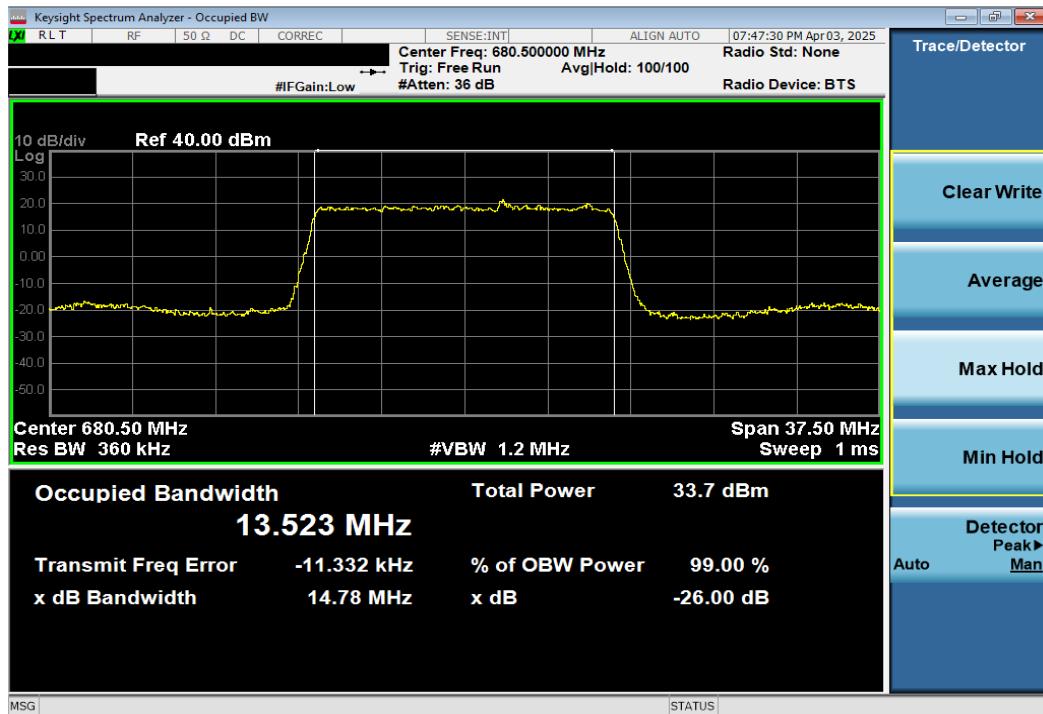


**Plot 7-15. Occupied Bandwidth Plot (LTE Band 71 - 10MHz QPSK - Full RB)**

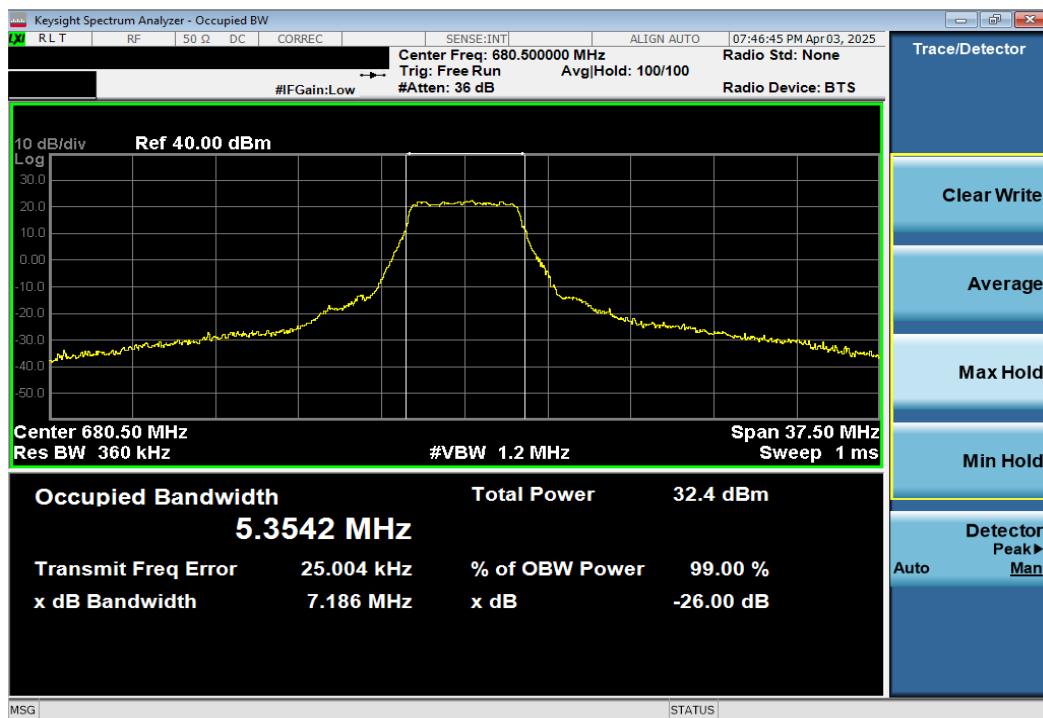


**Plot 7-16. Occupied Bandwidth Plot (LTE Band 71 - 10MHz 16-QAM - Full RB)**

FCC ID: BCG-A3335	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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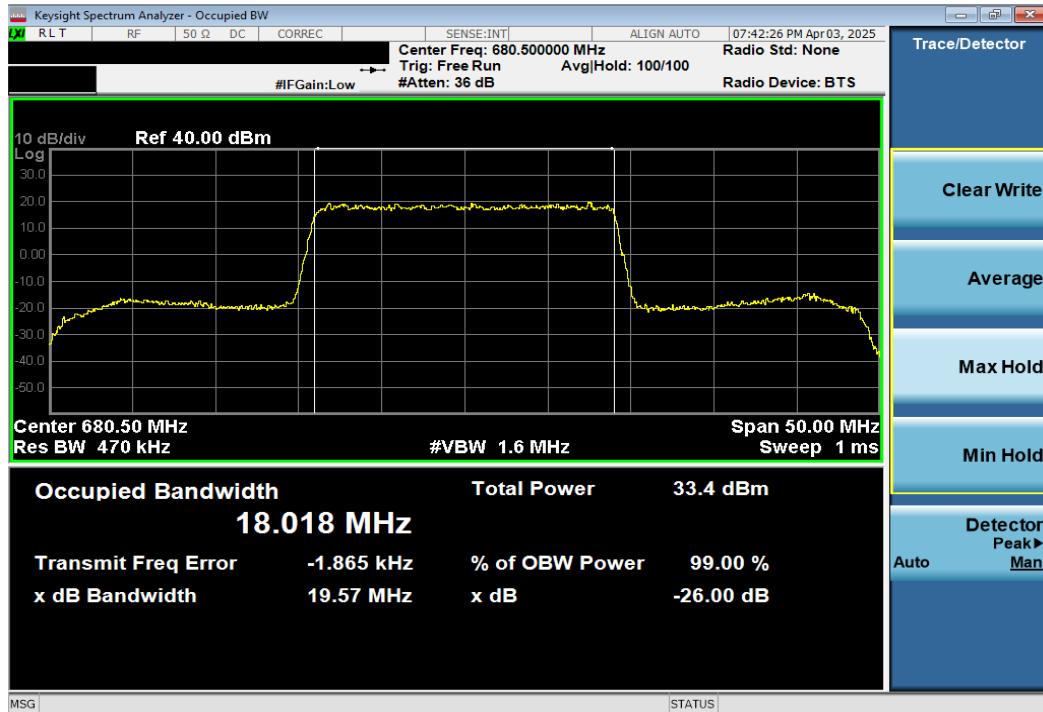


**Plot 7-17. Occupied Bandwidth Plot (LTE Band 71 - 15MHz QPSK - Full RB)**

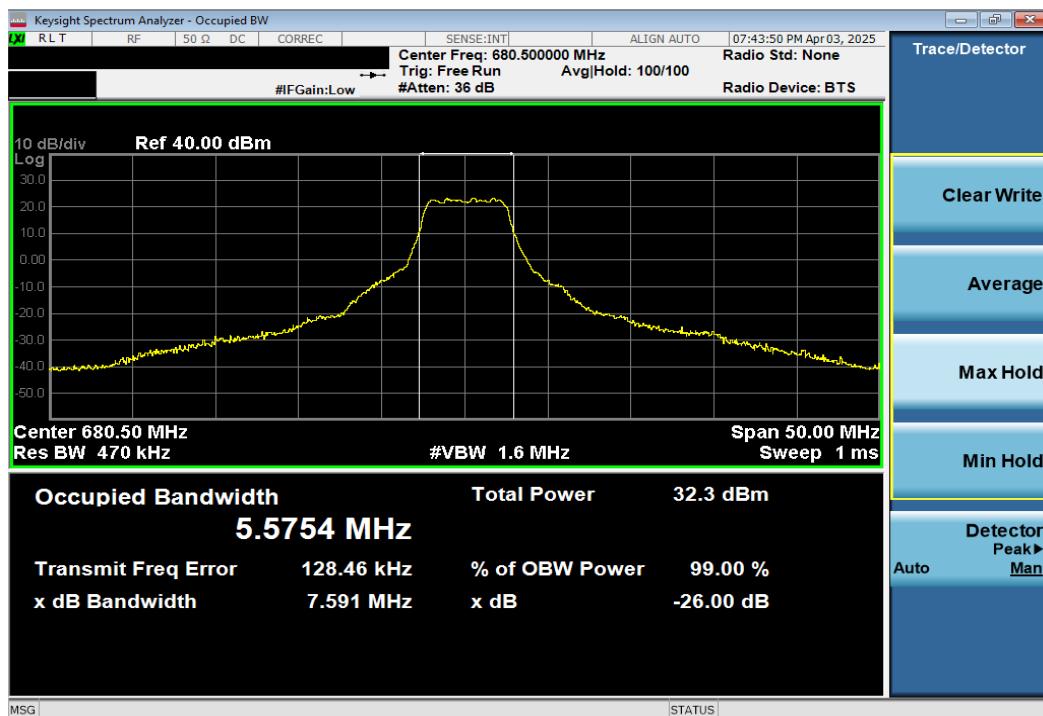


**Plot 7-18. Occupied Bandwidth Plot (LTE Band 71 - 15MHz 16-QAM - Full RB)**

FCC ID: BCG-A3335	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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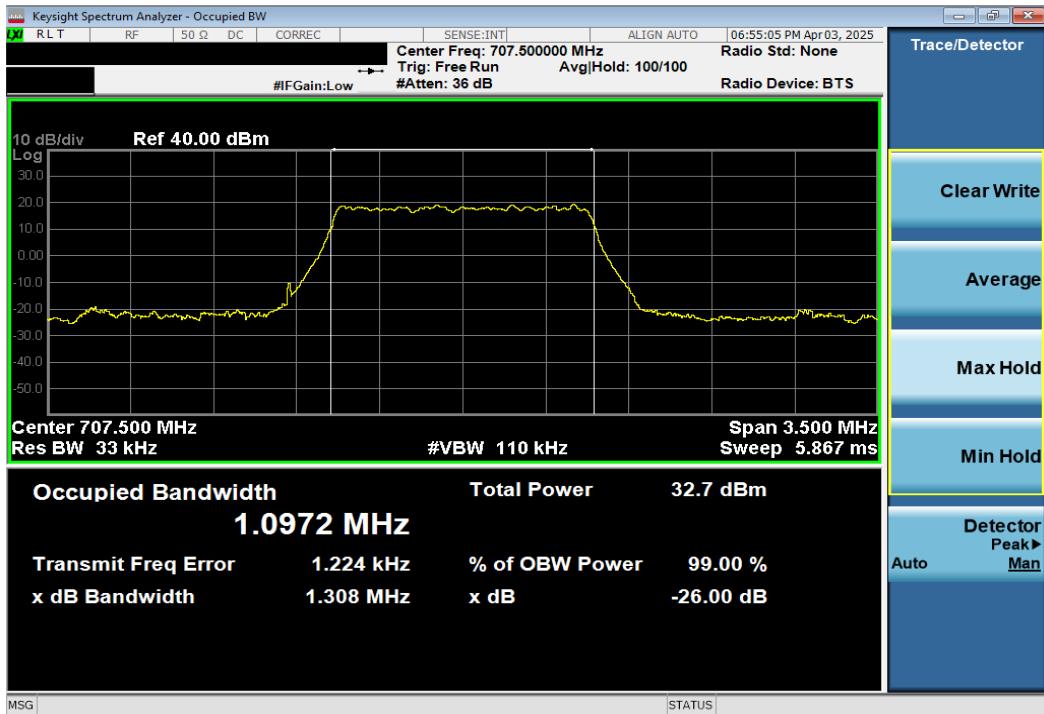
Plot 7-19. Occupied Bandwidth Plot (LTE Band 71 - 20MHz QPSK - Full RB)



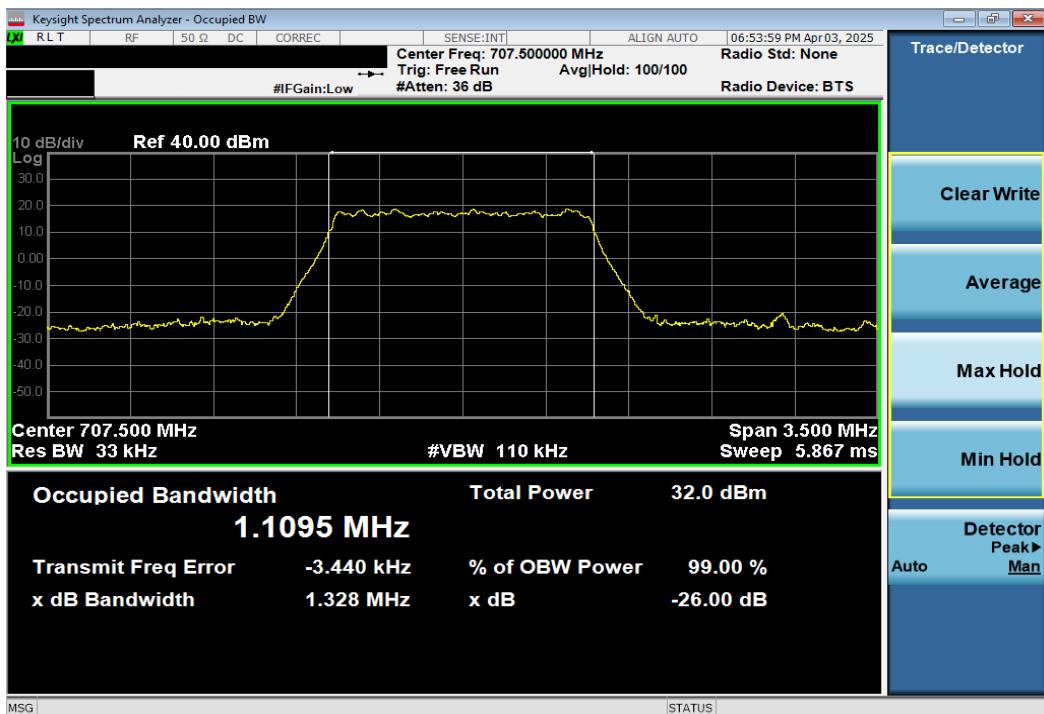
Plot 7-20. Occupied Bandwidth Plot (LTE Band 71 - 20MHz 16-QAM - Full RB)

FCC ID: BCG-A3335	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270032-03.BCG	Test Dates: 4/3/2025 - 7/23/2025	EUT Type: Watch	Page 27 of 202	

## LTE Band 12/17

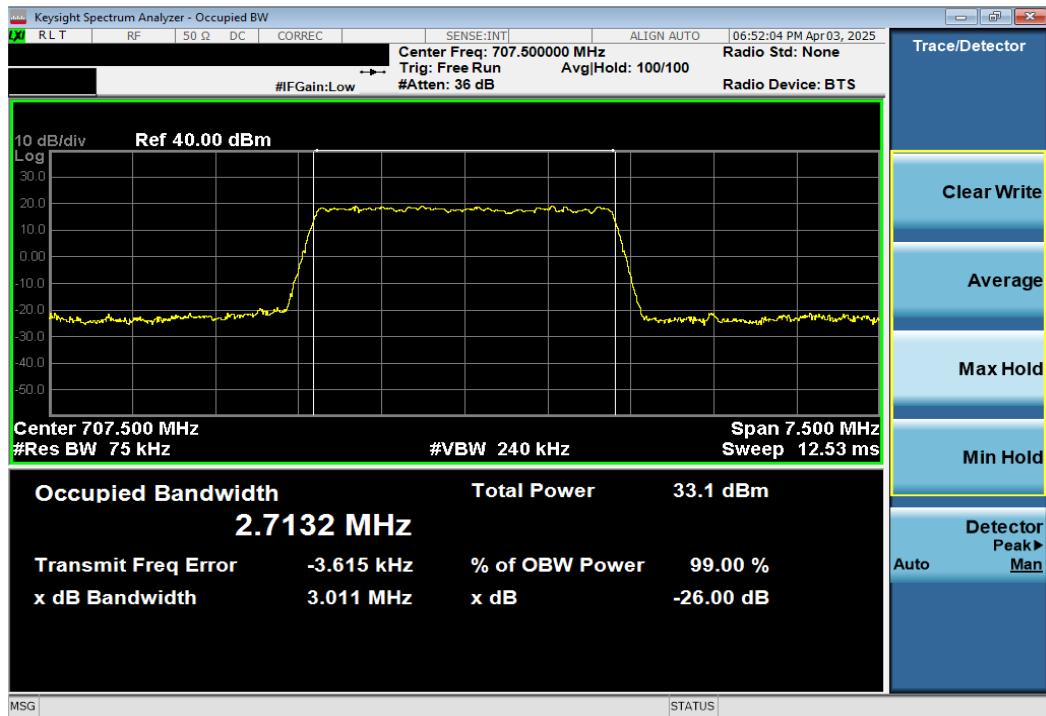


Plot 7-21. Occupied Bandwidth Plot (LTE Band 12 – 1.4MHz QPSK - Full RB)

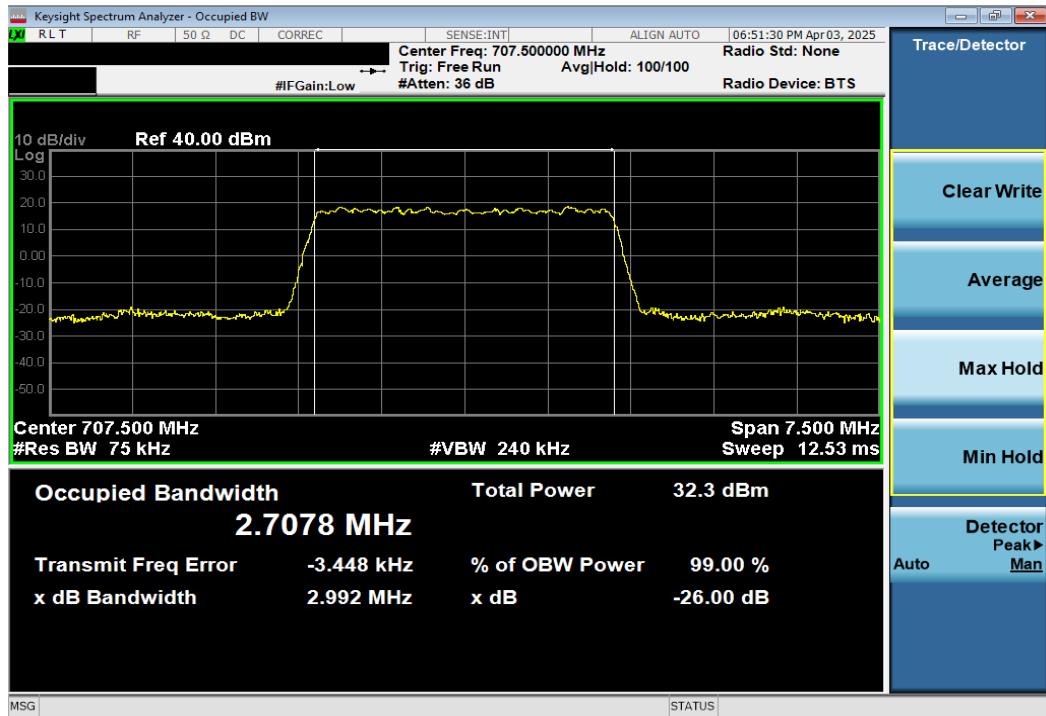


Plot 7-22. Occupied Bandwidth Plot (LTE Band 12 – 1.4MHz 16-QAM - Full RB)

FCC ID: BCG-A3335	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270032-03.BCG	Test Dates: 4/3/2025 - 7/23/2025	EUT Type: Watch	Page 28 of 202	

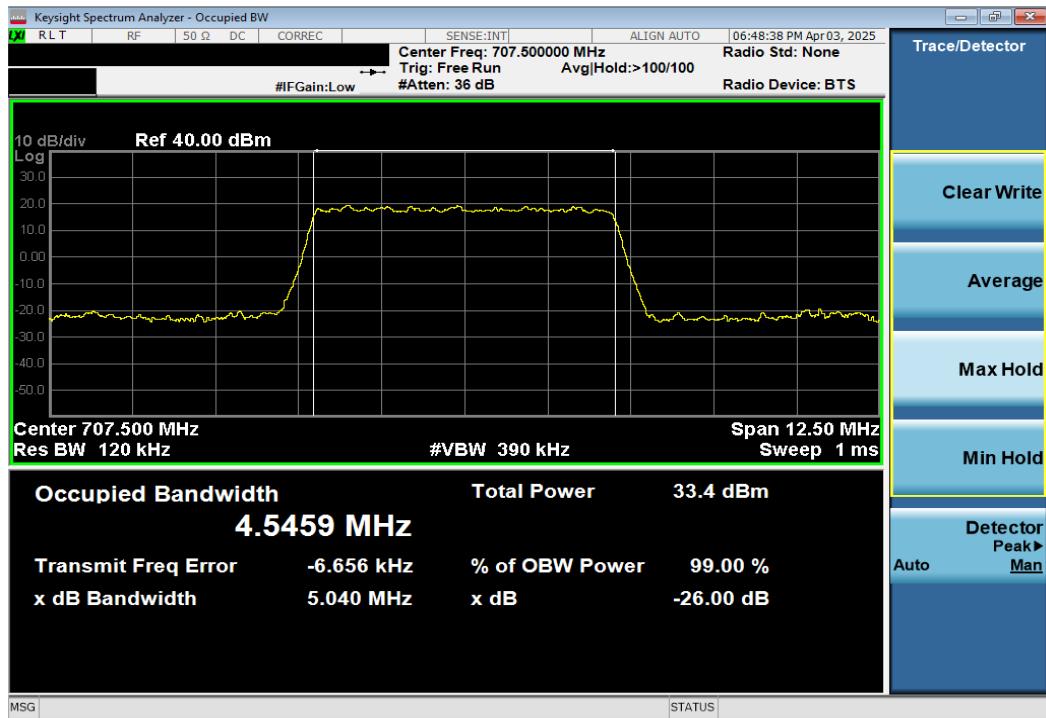


Plot 7-23. Occupied Bandwidth Plot (LTE Band 12 - 3MHz QPSK - Full RB)

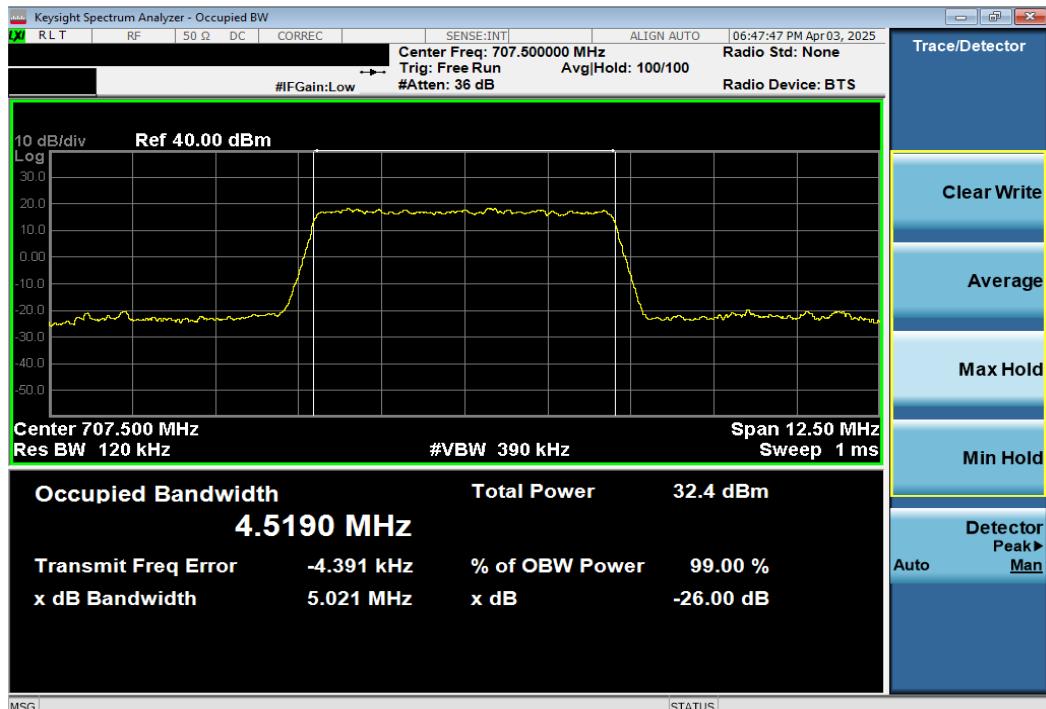


Plot 7-24. Occupied Bandwidth Plot (LTE Band 12 - 3MHz 16-QAM - Full RB)

FCC ID: BCG-A3335	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270032-03.BCG	Test Dates: 4/3/2025 - 7/23/2025	EUT Type: Watch	Page 29 of 202	

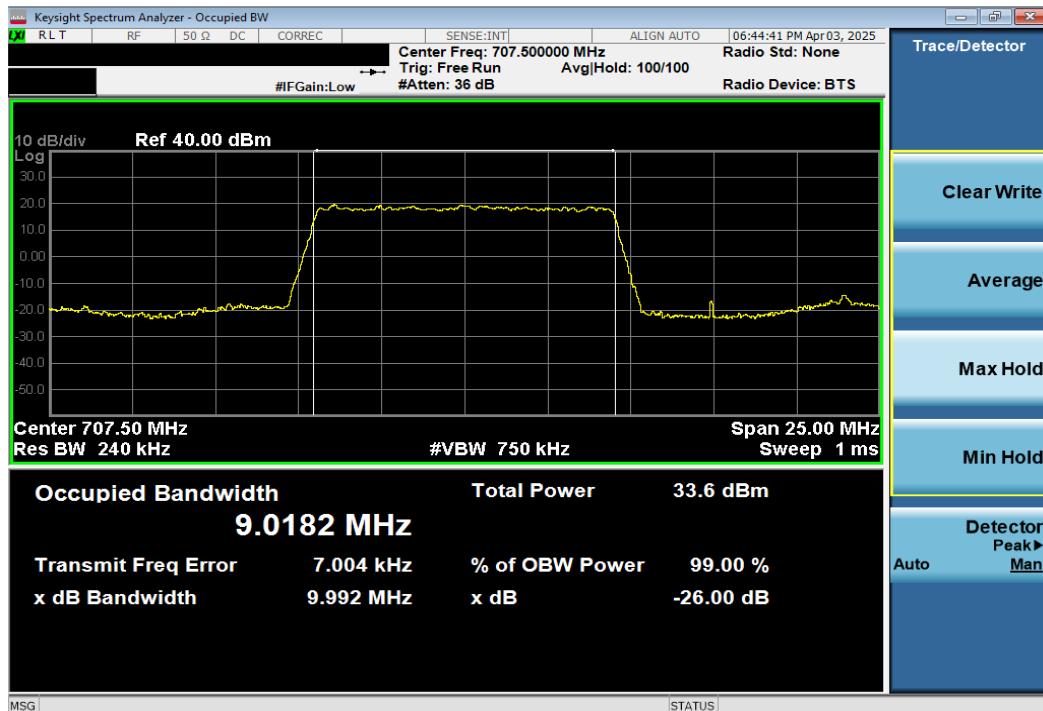


Plot 7-25. Occupied Bandwidth Plot (LTE Band 12/17 - 5MHz QPSK - Full RB)

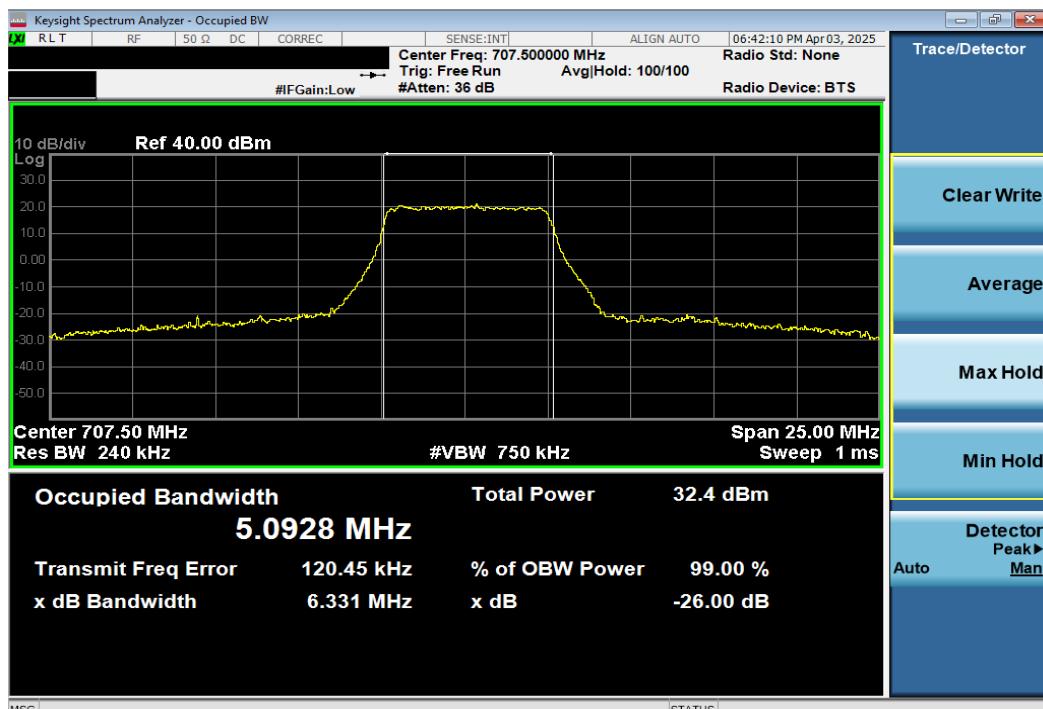


Plot 7-26. Occupied Bandwidth Plot (LTE Band 12/17 - 5MHz 16-QAM - Full RB)

FCC ID: BCG-A3335	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270032-03.BCG	Test Dates: 4/3/2025 - 7/23/2025	EUT Type: Watch		Page 30 of 202



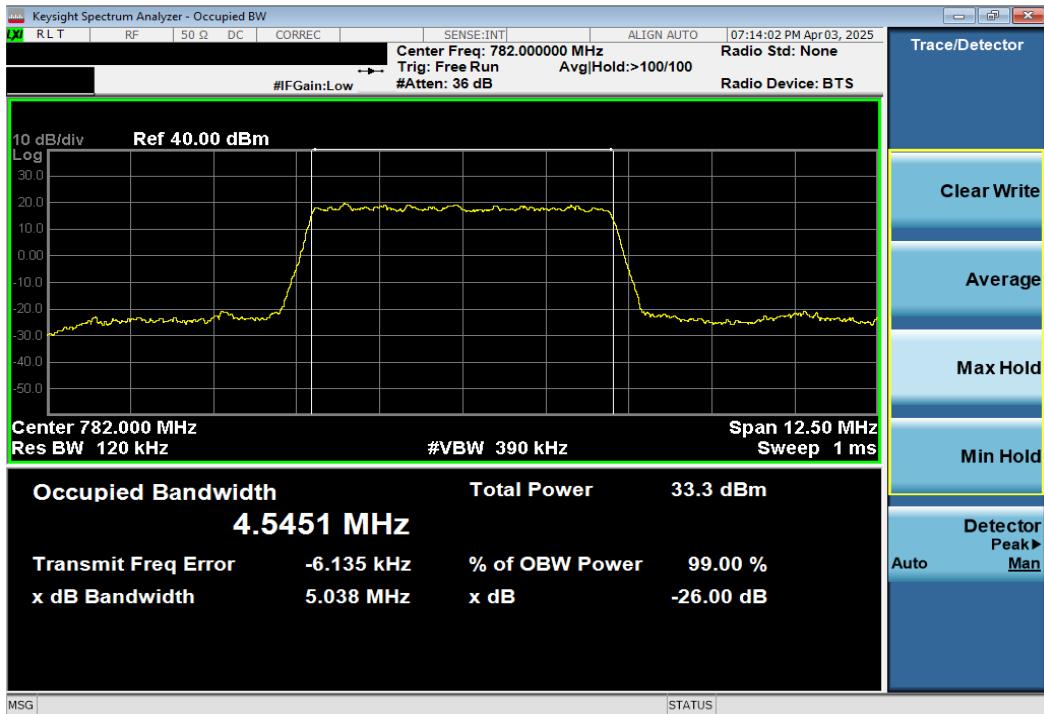
Plot 7-27. Occupied Bandwidth Plot (LTE Band 12/17 - 10MHz QPSK - Full RB)



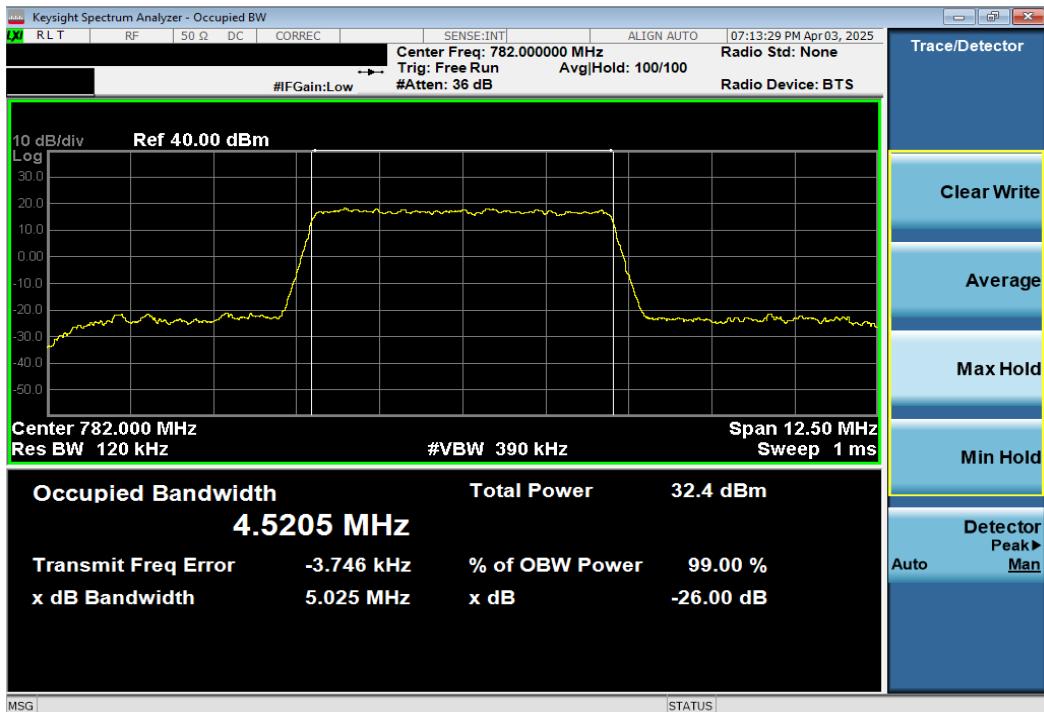
Plot 7-28. Occupied Bandwidth Plot (LTE Band 12/17 - 10MHz 16-QAM - Full RB)

FCC ID: BCG-A3335	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270032-03.BCG	Test Dates: 4/3/2025 - 7/23/2025	EUT Type: Watch	Page 31 of 202	

## LTE Band 13

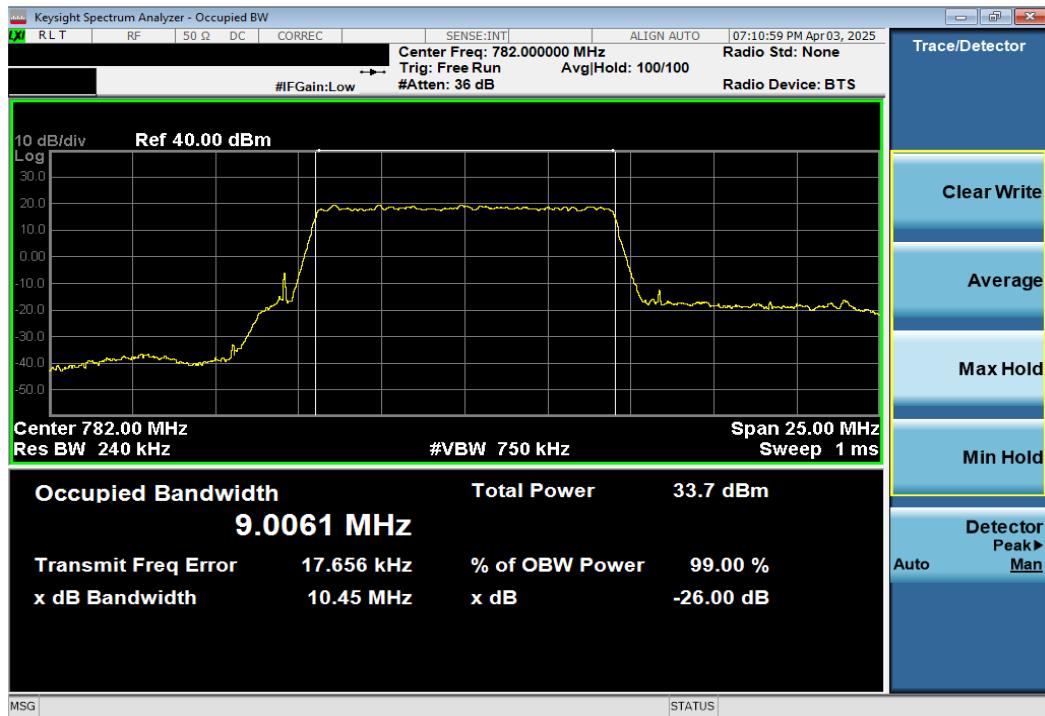


Plot 7-29. Occupied Bandwidth Plot (LTE Band 13 - 5MHz QPSK - Full RB)

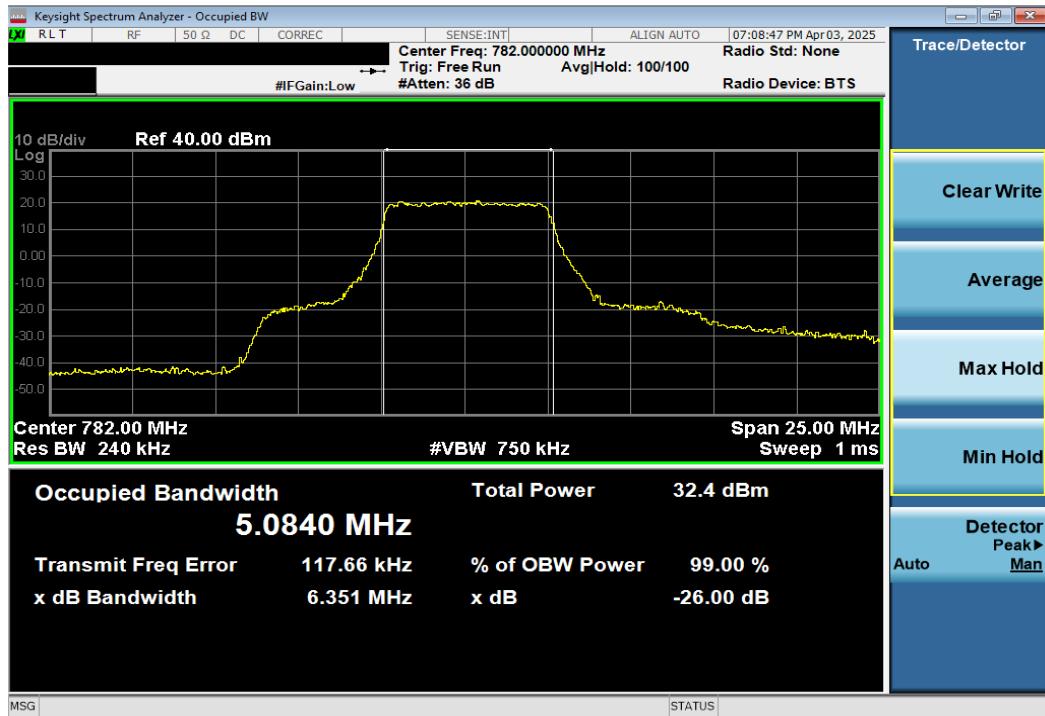


Plot 7-30. Occupied Bandwidth Plot (LTE Band 13 - 5MHz 16-QAM - Full RB)

FCC ID: BCG-A3335	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270032-03.BCG	Test Dates: 4/3/2025 - 7/23/2025	EUT Type: Watch		Page 32 of 202



Plot 7-31. Occupied Bandwidth Plot (LTE Band 13 - 10MHz QPSK - Full RB)



Plot 7-32. Occupied Bandwidth Plot (LTE Band 13 - 10MHz 16-QAM - Full RB)

FCC ID: BCG-A3335	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270032-03.BCG	Test Dates: 4/3/2025 - 7/23/2025	EUT Type: Watch	Page 33 of 202	

## NR Band n66



Plot 7-33. Occupied Bandwidth Plot (NR Band n66 - 5MHz DFT-s-OFDM  $\pi/2$  BPSK - Full RB)



Plot 7-34. Occupied Bandwidth Plot (NR Band n66 - 5MHz DFT-s-OFDM QPSK - Full RB)

FCC ID: BCG-A3335	element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270032-03.BCG	Test Dates: 4/3/2025 - 7/23/2025	EUT Type: Watch		Page 34 of 202

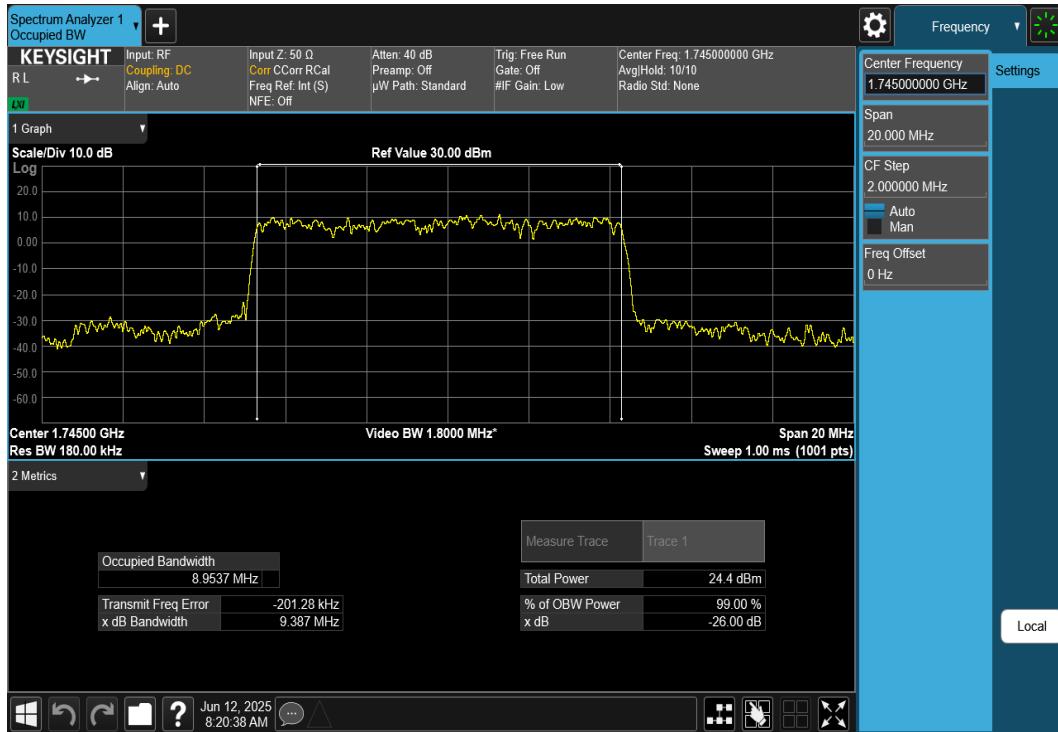


Plot 7-35. Occupied Bandwidth Plot (NR Band n66 - 5MHz DFT-s-OFDM 16QAM - Full RB)



Plot 7-36. Occupied Bandwidth Plot (NR Band n66 - 5MHz DFT-s-OFDM 64QAM - Full RB)

FCC ID: BCG-A3335	element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270032-03.BCG	Test Dates: 4/3/2025 - 7/23/2025	EUT Type: Watch	Page 35 of 202	

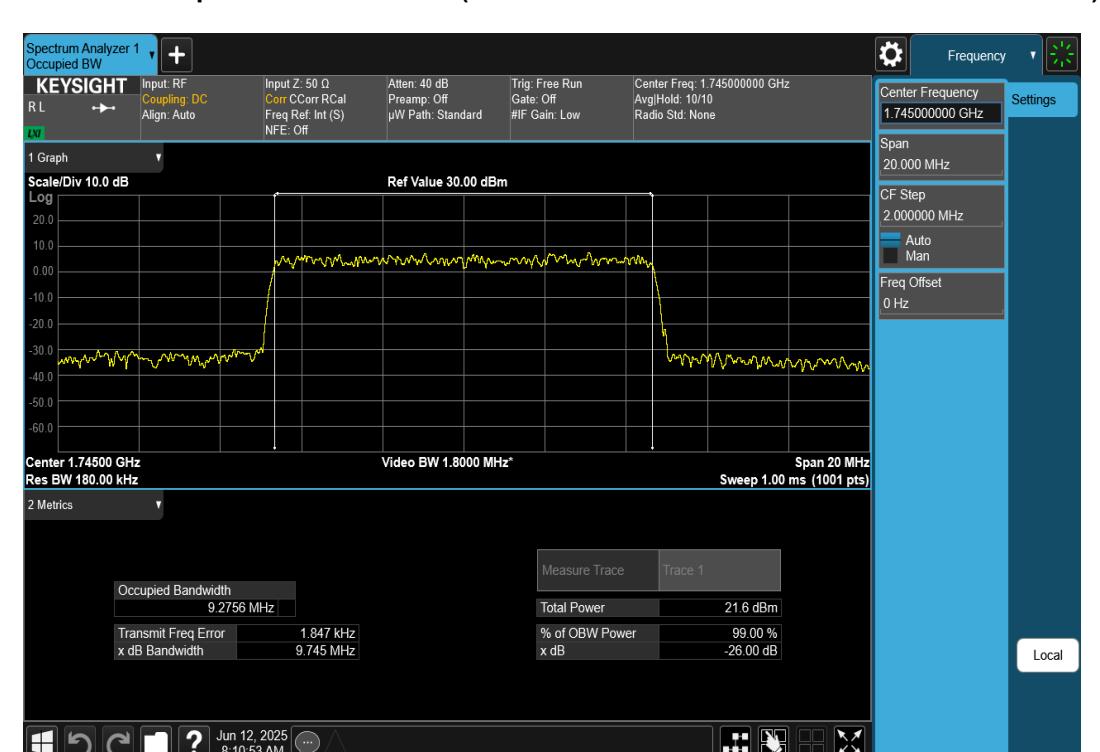
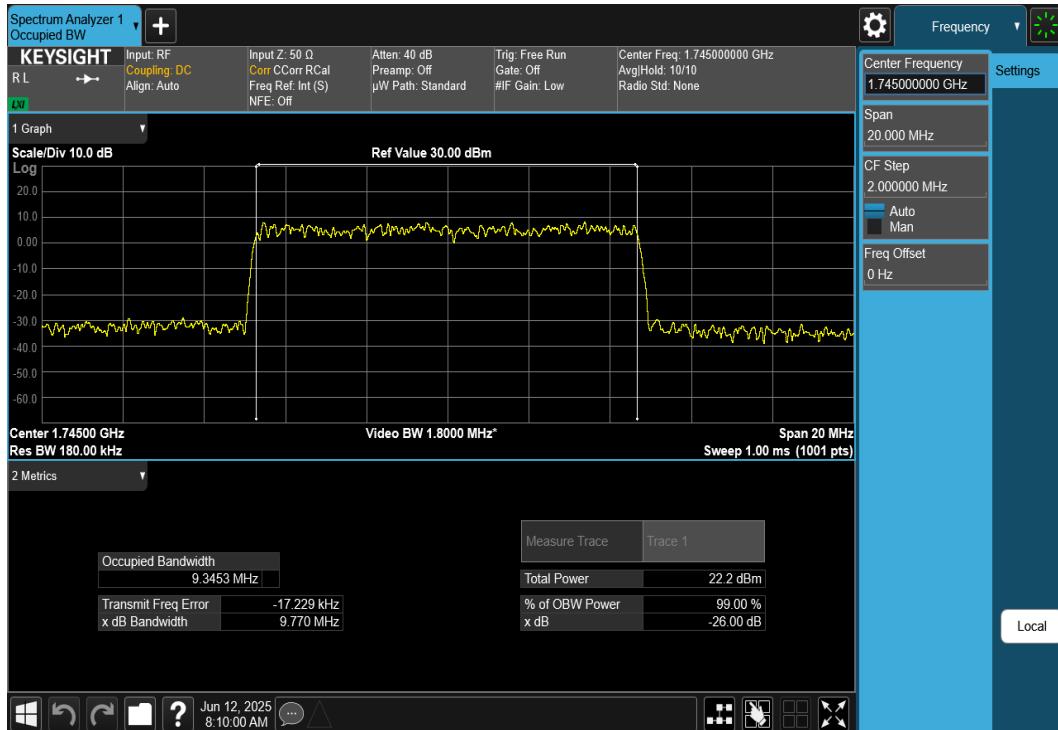


Plot 7-37. Occupied Bandwidth Plot (NR Band n66 - 10MHz DFT-s-OFDM  $\pi/2$  BPSK - Full RB)



Plot 7-38. Occupied Bandwidth Plot (NR Band n66 - 10MHz CP-OFDM QPSK - Full RB)

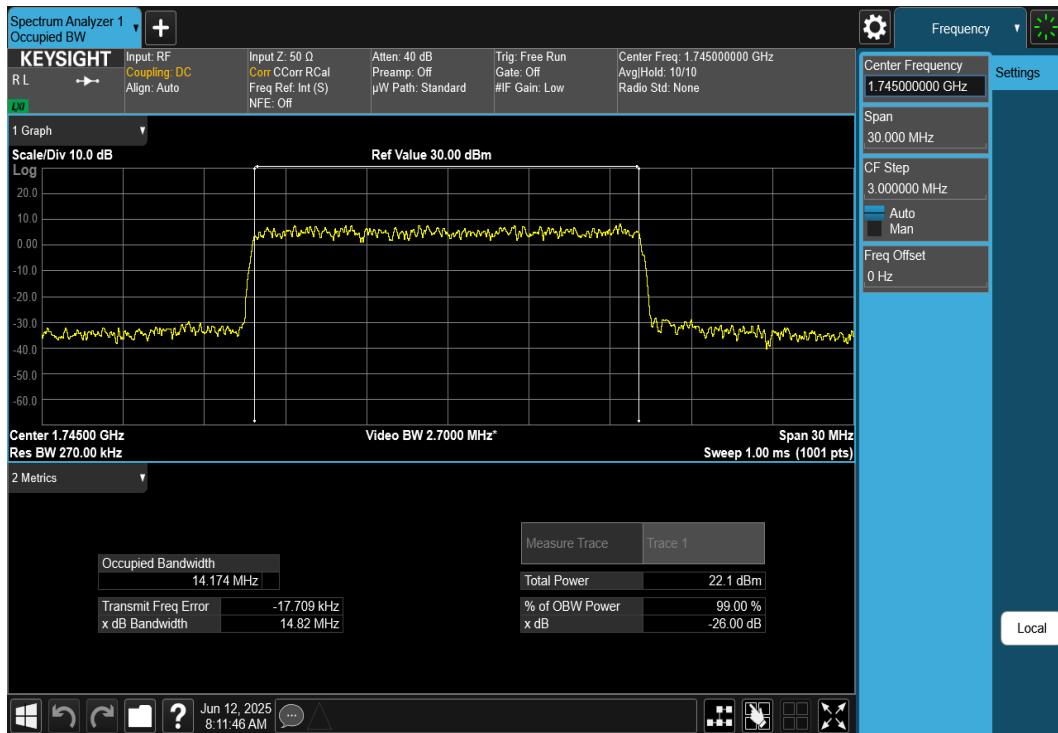
FCC ID: BCG-A3335	element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270032-03.BCG	Test Dates: 4/3/2025 - 7/23/2025	EUT Type: Watch	Page 36 of 202	



FCC ID: BCG-A3335	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270032-03.BCG	Test Dates: 4/3/2025 - 7/23/2025	EUT Type: Watch	Page 37 of 202

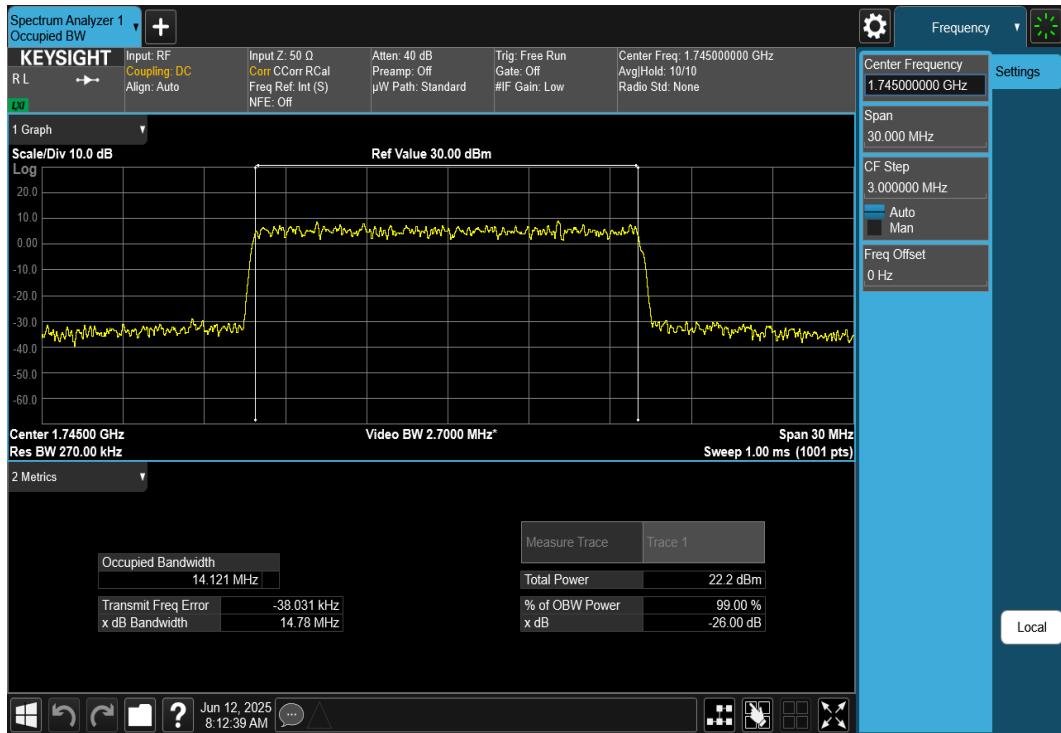


Plot 7-41. Occupied Bandwidth Plot (NR Band n66 - 15MHz DFT-s-OFDM  $\pi/2$  BPSK - Full RB)

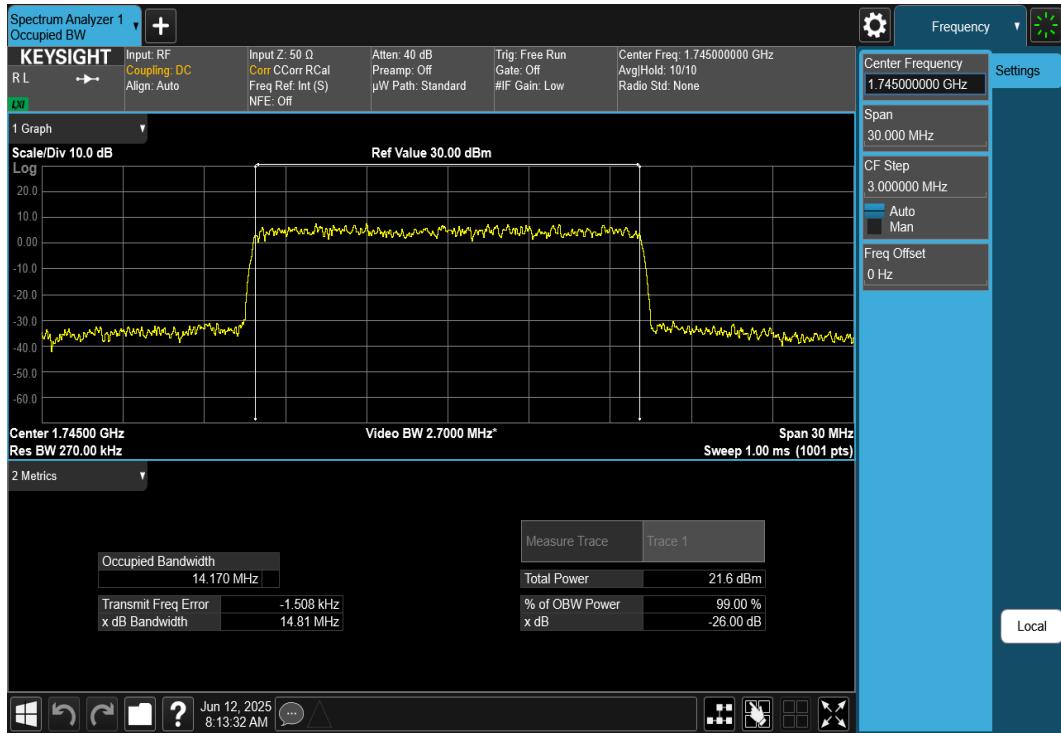


Plot 7-42. Occupied Bandwidth Plot (NR Band n66 - 15MHz CP-OFDM QPSK - Full RB)

FCC ID: BCG-A3335	element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270032-03.BCG	Test Dates: 4/3/2025 - 7/23/2025	EUT Type: Watch	Page 38 of 202	

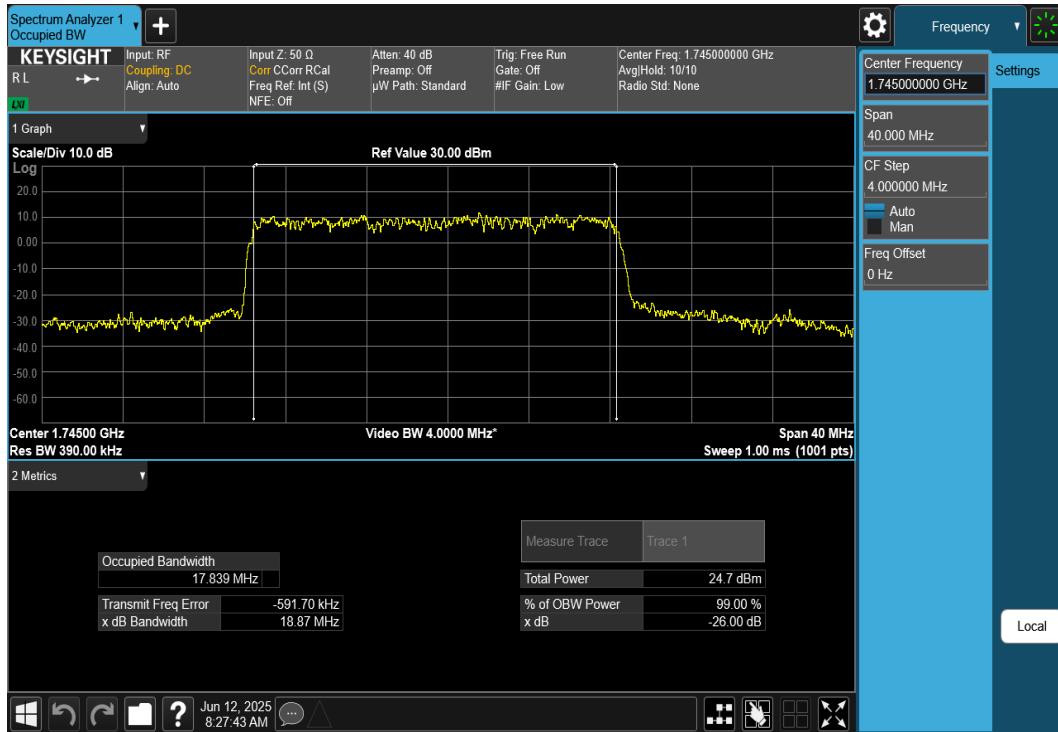


Plot 7-43. Occupied Bandwidth Plot (NR Band n66 - 15MHz CP-OFDM 16QAM - Full RB)

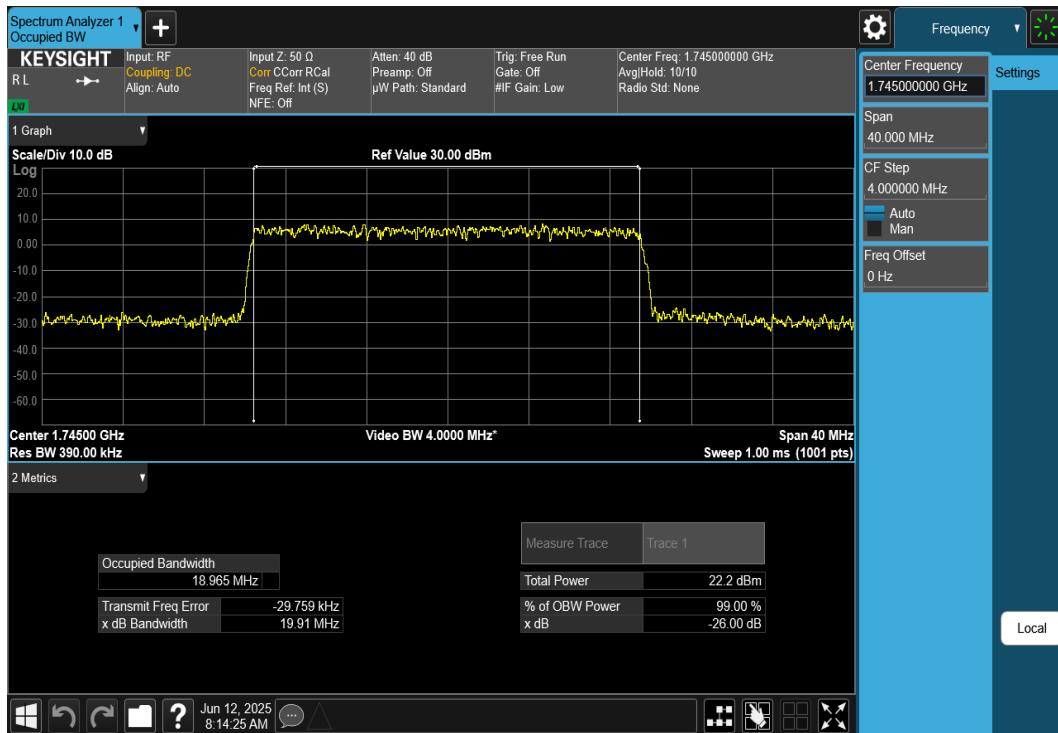


Plot 7-44. Occupied Bandwidth Plot (NR Band n66 - 15MHz CP-OFDM 64QAM - Full RB)

FCC ID: BCG-A3335	element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270032-03.BCG	Test Dates: 4/3/2025 - 7/23/2025	EUT Type: Watch	Page 39 of 202	

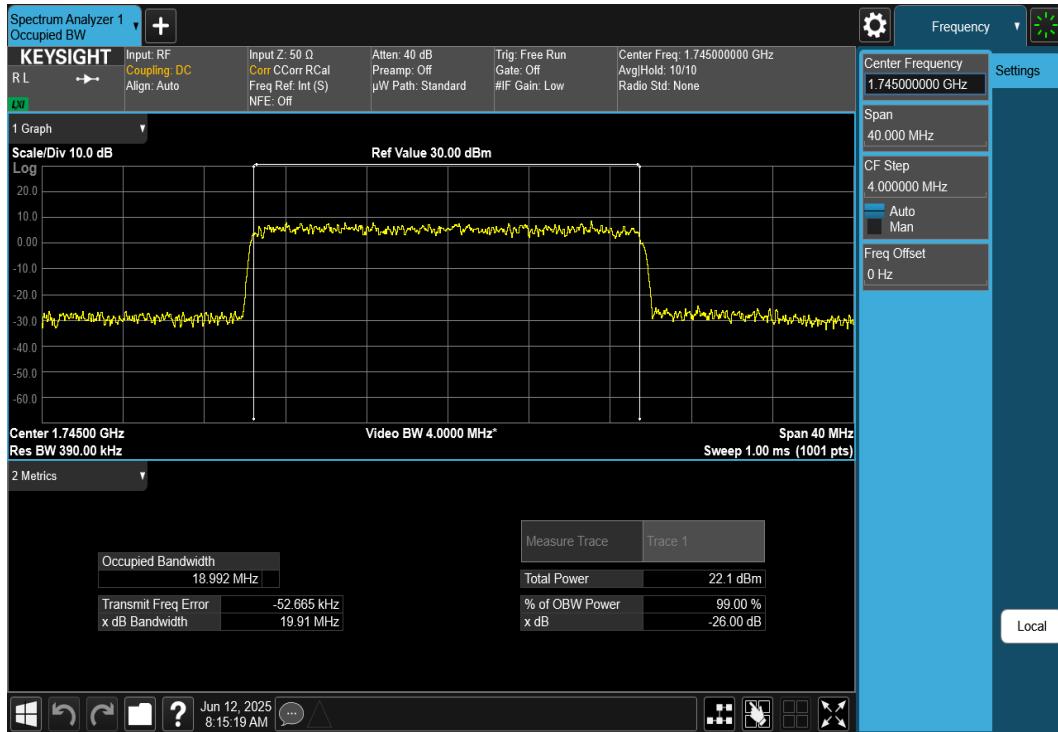


Plot 7-45. Occupied Bandwidth Plot (NR Band n66 - 20MHz DFT-s-OFDM π/2 BPSK - Full RB)



Plot 7-46. Occupied Bandwidth Plot (NR Band n66 - 20MHz CP-OFDM QPSK - Full RB)

FCC ID: BCG-A3335	element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270032-03.BCG	Test Dates: 4/3/2025 - 7/23/2025	EUT Type: Watch	Page 40 of 202	



Plot 7-47. Occupied Bandwidth Plot (NR Band n66 - 20MHz CP-OFDM 16QAM - Full RB)



Plot 7-48. Occupied Bandwidth Plot (NR Band n66 - 20MHz CP-OFDM 64QAM - Full RB)

FCC ID: BCG-A3335	element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270032-03.BCG	Test Dates: 4/3/2025 - 7/23/2025	EUT Type: Watch	Page 41 of 202	

## NR Band n71



Plot 7-49. Occupied Bandwidth Plot (NR Band n71 - 5MHz DFT-s-OFDM  $\pi/2$  BPSK - Full RB)

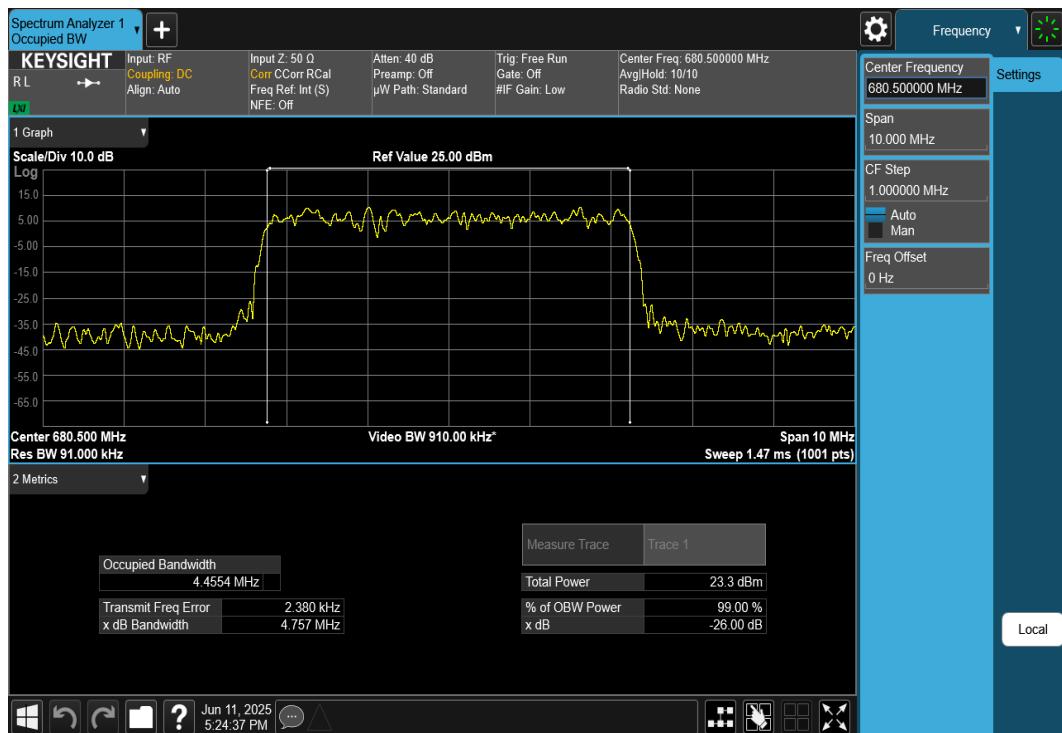


Plot 7-50. Occupied Bandwidth Plot (NR Band n71 - 5MHz DFT-s-OFDM QPSK - Full RB)

FCC ID: BCG-A3335	element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270032-03.BCG	Test Dates: 4/3/2025 - 7/23/2025	EUT Type: Watch		Page 42 of 202

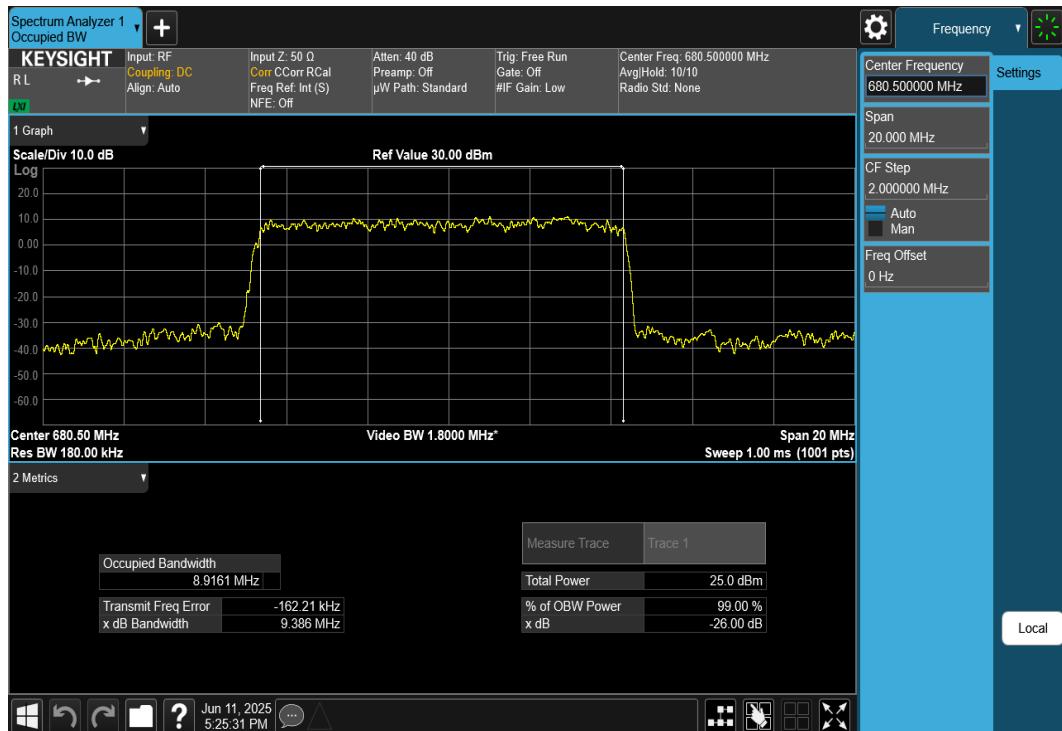


Plot 7-51. Occupied Bandwidth Plot (NR Band n71 - 5MHz DFT-s-OFDM 16-QAM - Full RB)

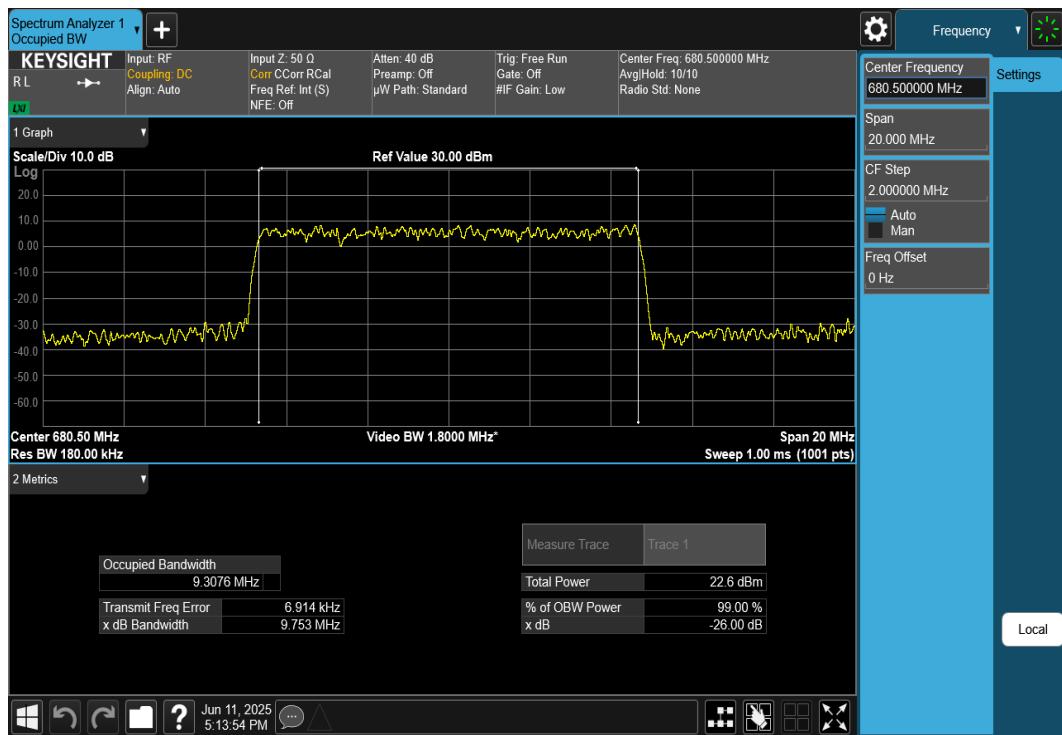


Plot 7-52. Occupied Bandwidth Plot (NR Band n71 - 5MHz DFT-s-OFDM 64-QAM - Full RB)

FCC ID: BCG-A3335	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270032-03.BCG	Test Dates: 4/3/2025 - 7/23/2025	EUT Type: Watch	Page 43 of 202	



Plot 7-53. Occupied Bandwidth Plot (NR Band n71 - 10MHz DFT-s-OFDM  $\pi/2$  BPSK - Full RB)



Plot 7-54. Occupied Bandwidth Plot (NR Band n71 - 10MHz CP-OFDM QPSK - Full RB)

FCC ID: BCG-A3335	element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270032-03.BCG	Test Dates: 4/3/2025 - 7/23/2025	EUT Type: Watch	Page 44 of 202	



Plot 7-55. Occupied Bandwidth Plot (NR Band n71 - 10MHz CP-OFDM 16-QAM - Full RB)

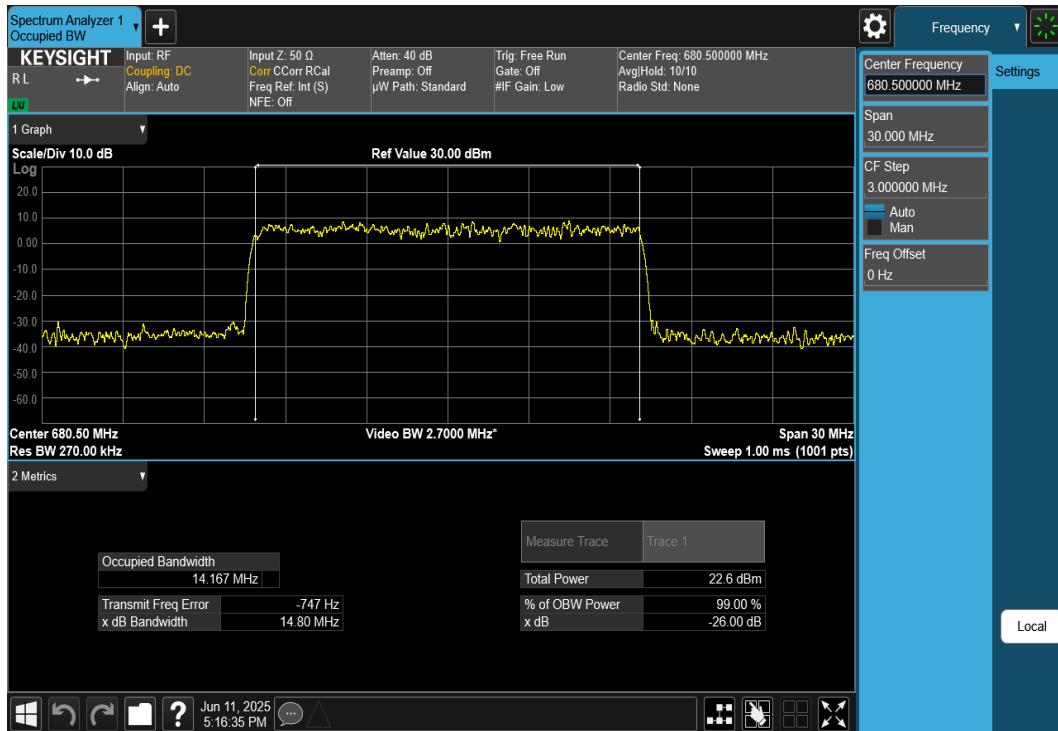


Plot 7-56. Occupied Bandwidth Plot (NR Band n71 - 10MHz CP-OFDM 64-QAM - Full RB)

FCC ID: BCG-A3335	element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270032-03.BCG	Test Dates: 4/3/2025 - 7/23/2025	EUT Type: Watch		Page 45 of 202

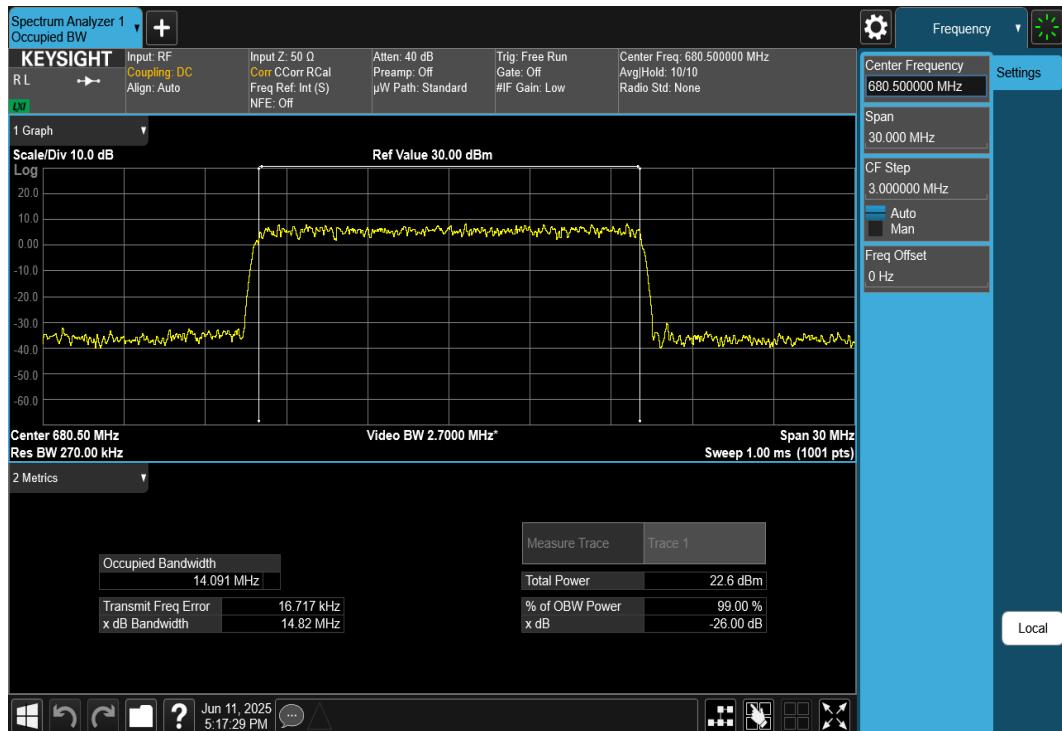


Plot 7-57. Occupied Bandwidth Plot (NR Band n71 - 15MHz DFT-s-OFDM  $\pi/2$  BPSK - Full RB)



Plot 7-58. Occupied Bandwidth Plot (NR Band n71 - 15MHz CP-OFDM QPSK - Full RB)

FCC ID: BCG-A3335	element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270032-03.BCG	Test Dates: 4/3/2025 - 7/23/2025	EUT Type: Watch	Page 46 of 202	



Plot 7-59. Occupied Bandwidth Plot (NR Band n71 - 15MHz CP-OFDM 16-QAM - Full RB)

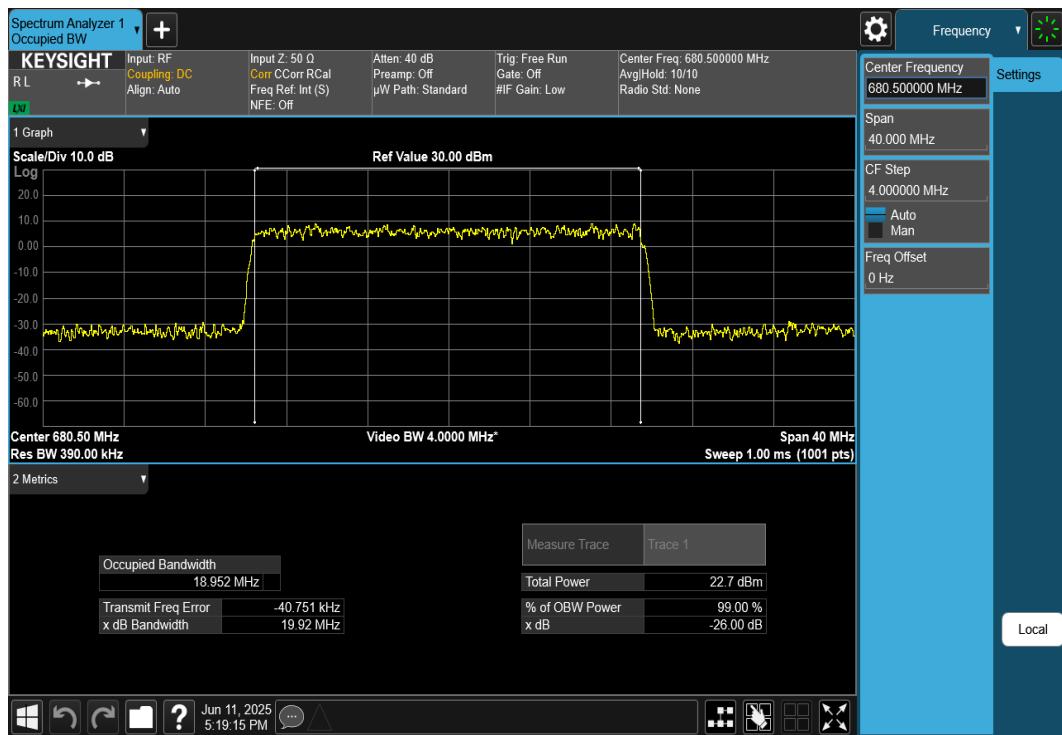


Plot 7-60. Occupied Bandwidth Plot (NR Band n71 - 15MHz CP-OFDM 64-QAM - Full RB)

FCC ID: BCG-A3335	element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270032-03.BCG	Test Dates: 4/3/2025 - 7/23/2025	EUT Type: Watch	Page 47 of 202	



Plot 7-61. Occupied Bandwidth Plot (NR Band n71 - 20MHz DFT-s-OFDM  $\pi/2$  BPSK - Full RB)

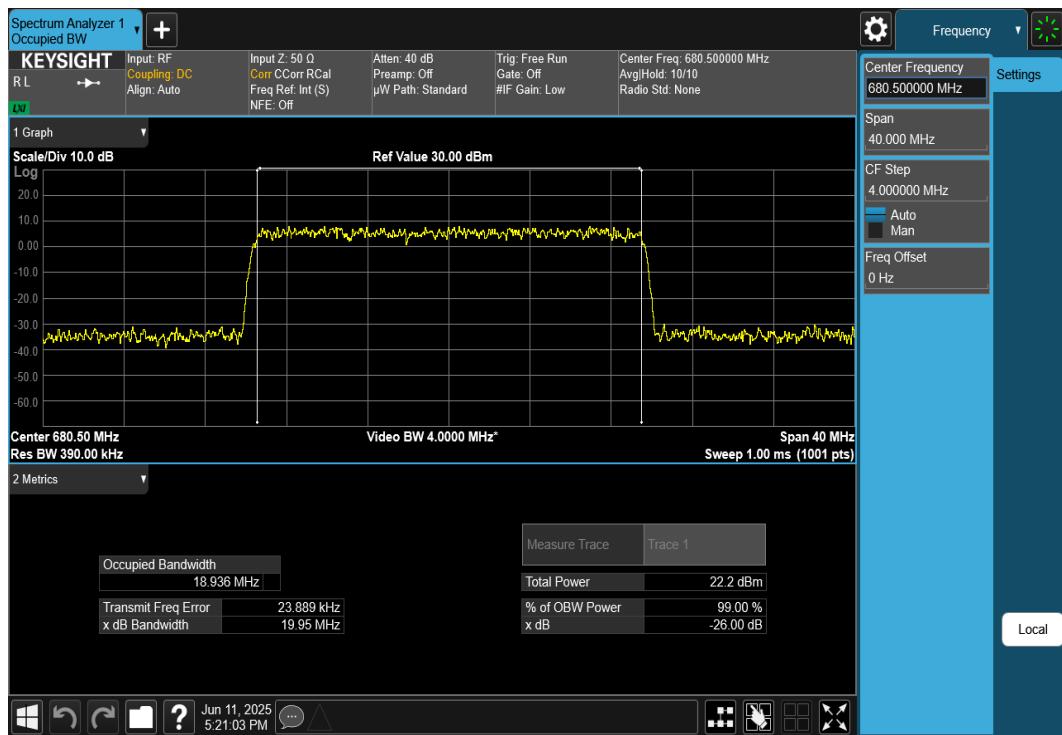


Plot 7-62. Occupied Bandwidth Plot (NR Band n71 - 20MHz CP-OFDM QPSK - Full RB)

FCC ID: BCG-A3335	element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270032-03.BCG	Test Dates: 4/3/2025 - 7/23/2025	EUT Type: Watch	Page 48 of 202	



Plot 7-63. Occupied Bandwidth Plot (NR Band n71 - 20MHz CP-OFDM 16-QAM - Full RB)



Plot 7-64. Occupied Bandwidth Plot (NR Band n71 - 20MHz CP-OFDM 64-QAM - Full RB)

FCC ID: BCG-A3335	element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270032-03.BCG	Test Dates: 4/3/2025 - 7/23/2025	EUT Type: Watch	Page 49 of 202	

## NR Band n12



Plot 7-65. Occupied Bandwidth Plot (NR Band n12 - 5MHz DFT-s-OFDM  $\pi/2$  BPSK - Full RB)

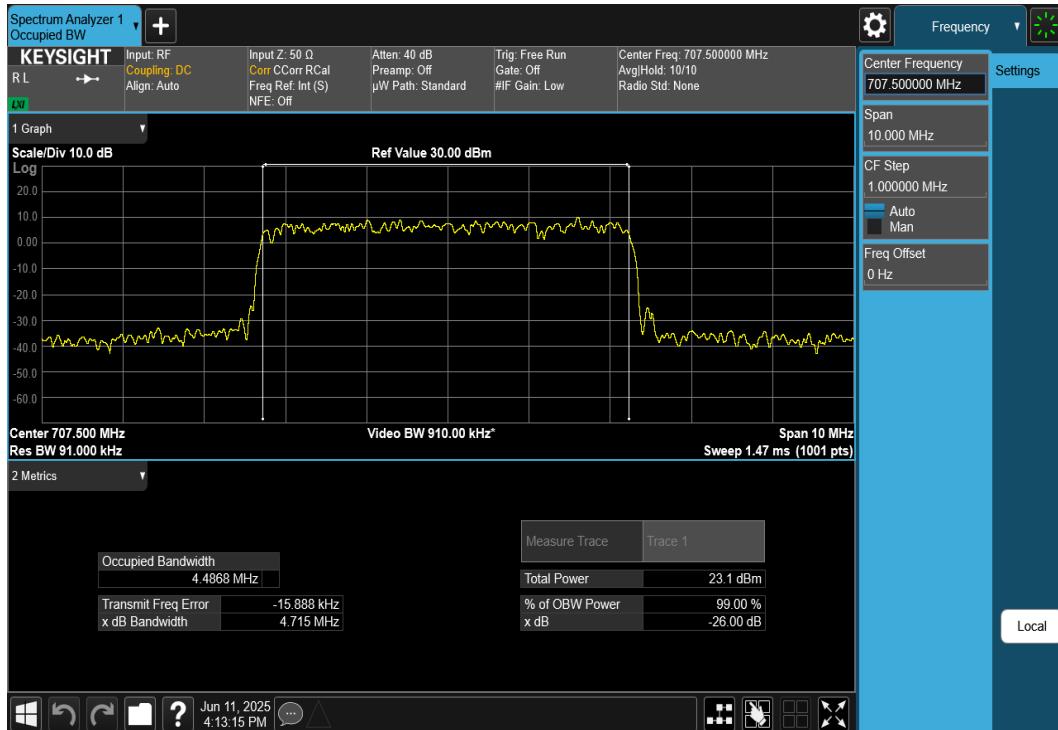


Plot 7-66. Occupied Bandwidth Plot (NR Band n12 - 5MHz DFT-s-OFDM QPSK - Full RB)

FCC ID: BCG-A3335	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270032-03.BCG	Test Dates: 4/3/2025 - 7/23/2025	EUT Type: Watch	Page 50 of 202	



Plot 7-67. Occupied Bandwidth Plot (NR Band n12 - 5MHz DFT-s-OFDM 16-QAM - Full RB)

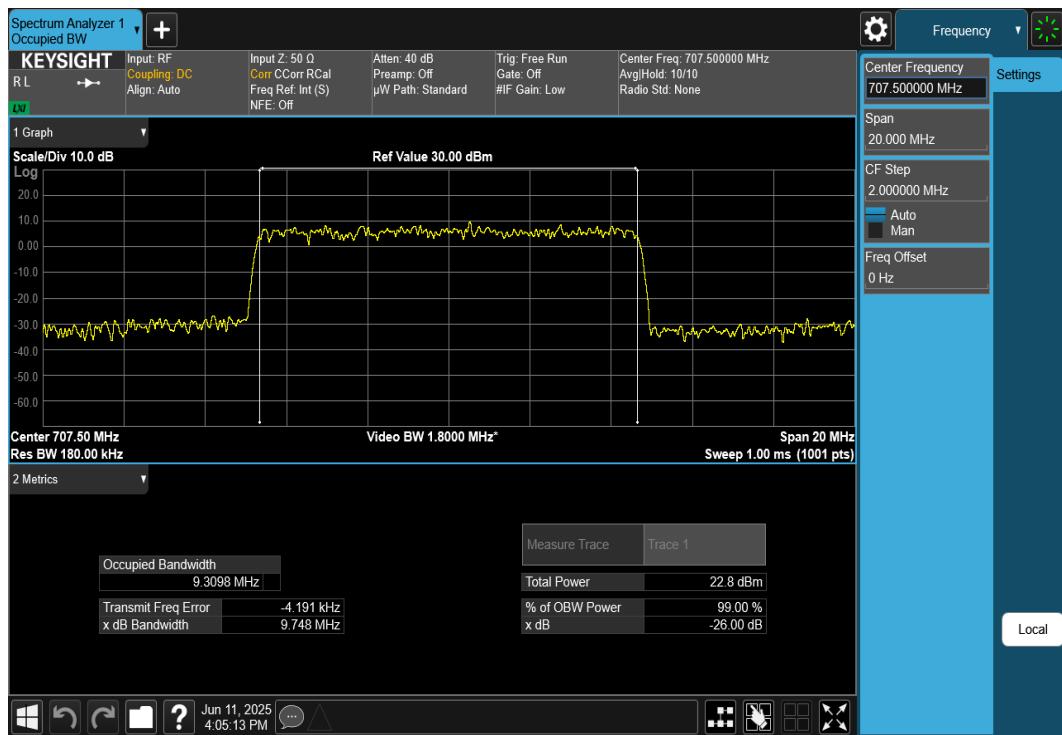


Plot 7-68. Occupied Bandwidth Plot (NR Band n12 - 5MHz DFT-s-OFDM 64-QAM - Full RB)

FCC ID: BCG-A3335	element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270032-03.BCG	Test Dates: 4/3/2025 - 7/23/2025	EUT Type: Watch	Page 51 of 202	

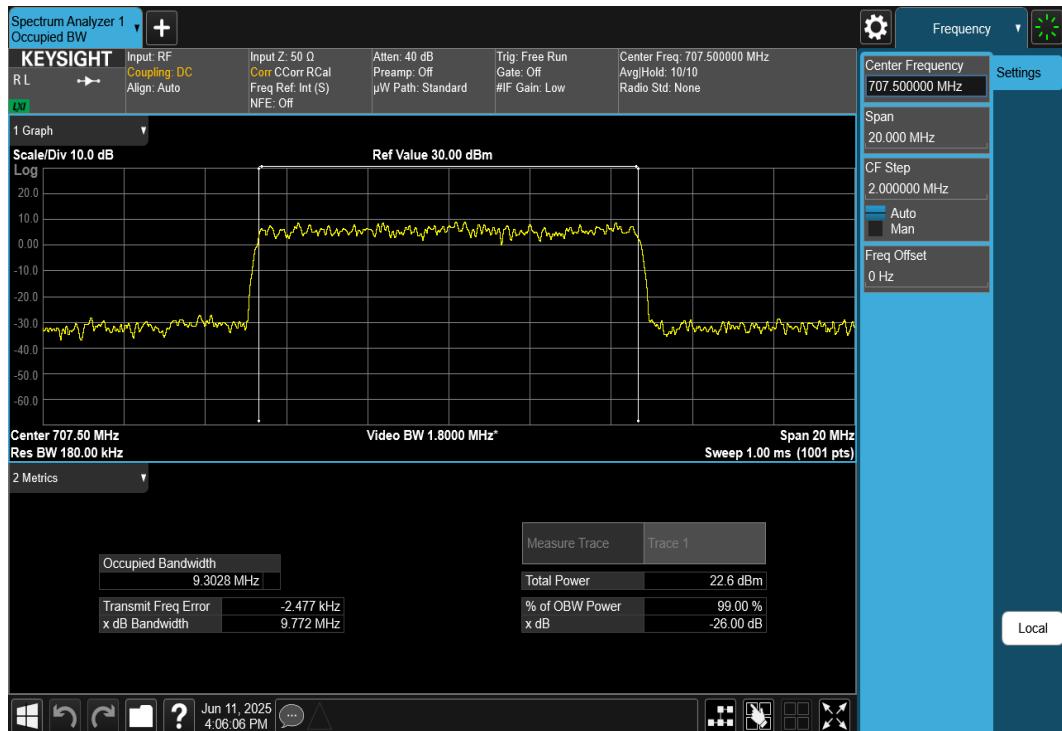


Plot 7-69. Occupied Bandwidth Plot (NR Band n12 - 10MHz DFT-s-OFDM π/2 BPSK - Full RB)



Plot 7-70. Occupied Bandwidth Plot (NR Band n12 - 10MHz CP-OFDM QPSK - Full RB)

FCC ID: BCG-A3335	element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270032-03.BCG	Test Dates: 4/3/2025 - 7/23/2025	EUT Type: Watch	Page 52 of 202	

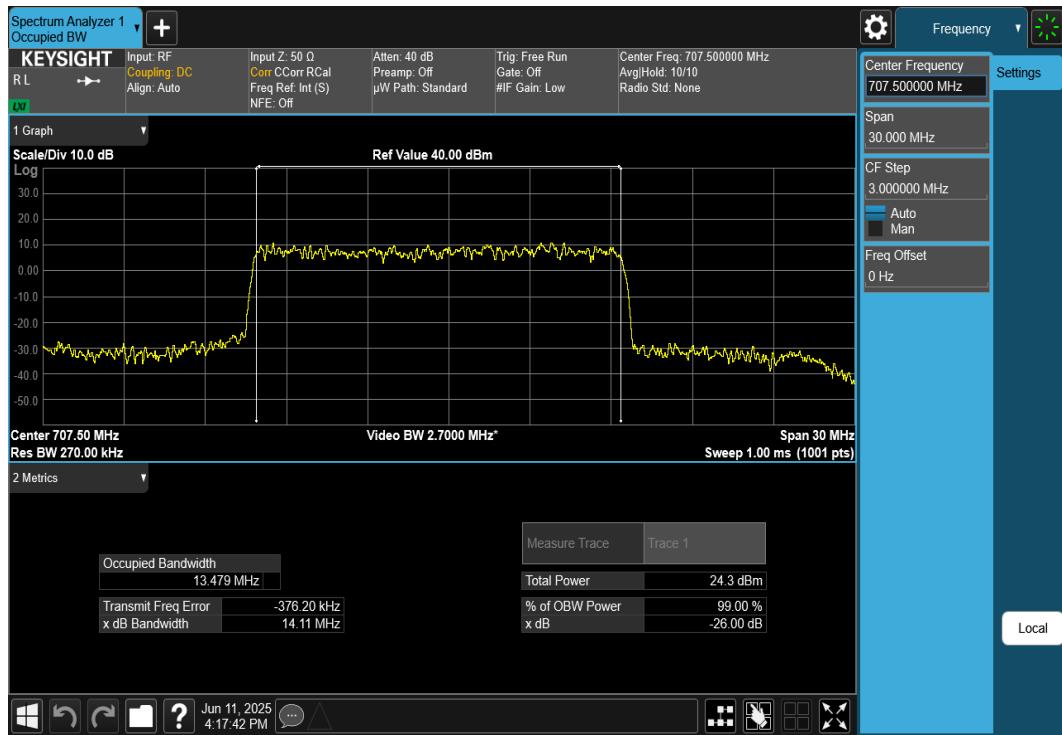


**Plot 7-71. Occupied Bandwidth Plot (NR Band n12 - 10MHz CP-OFDM 16-QAM - Full RB)**



**Plot 7-72. Occupied Bandwidth Plot (NR Band n12 - 10MHz CP-OFDM 64-QAM - Full RB)**

FCC ID: BCG-A3335	element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270032-03.BCG	Test Dates: 4/3/2025 - 7/23/2025	EUT Type: Watch	Page 53 of 202	

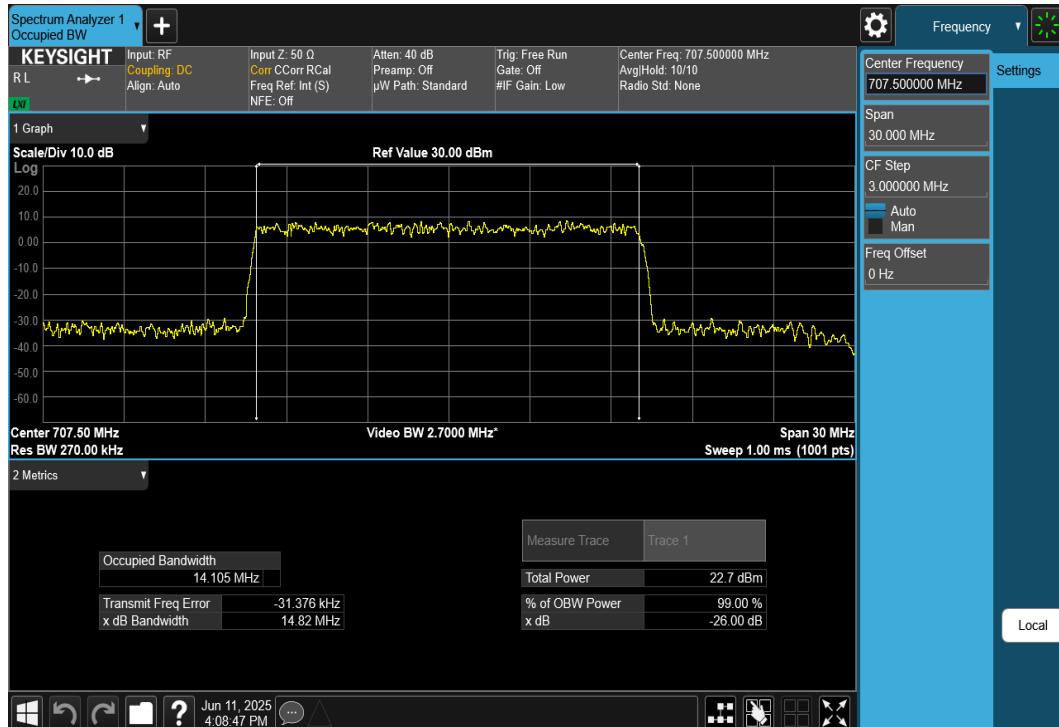


Plot 7-73. Occupied Bandwidth Plot (NR Band n12 - 15MHz DFT-s-OFDM  $\pi/2$  BPSK - Full RB)



Plot 7-74. Occupied Bandwidth Plot (NR Band n12 - 15MHz CP-OFDM QPSK - Full RB)

FCC ID: BCG-A3335	element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270032-03.BCG	Test Dates: 4/3/2025 - 7/23/2025	EUT Type: Watch	Page 54 of 202	



Plot 7-75. Occupied Bandwidth Plot (NR Band n12 - 15MHz CP-OFDM 16-QAM - Full RB)



Plot 7-76. Occupied Bandwidth Plot (NR Band n12 - 15MHz CP-OFDM 64-QAM - Full RB)

FCC ID: BCG-A3335	element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270032-03.BCG	Test Dates: 4/3/2025 - 7/23/2025	EUT Type: Watch	Page 55 of 202	

## 7.3 Spurious and Harmonic Emissions at Antenna Terminal

§2.1051, §27.53

### Test Overview

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 10<sup>th</sup> 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 18GHz (separated into at least two plots per channel)
2. RBW  $\geq$  100kHz
3. VBW  $\geq 3 \times$  RBW
4. Detector = RMS
5. Trace mode = max hold
6. Sweep time = auto couple
7. The trace was allowed to stabilize

### Test Setup

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

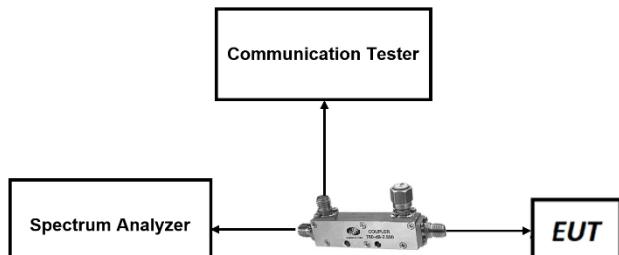


Figure 7-3. Test Instrument & Measurement Setup

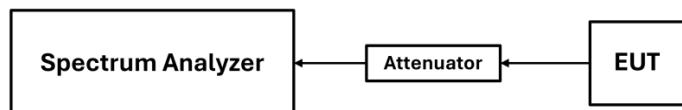


Figure 7-4. FR1 Test Instrument & Measurement Setup

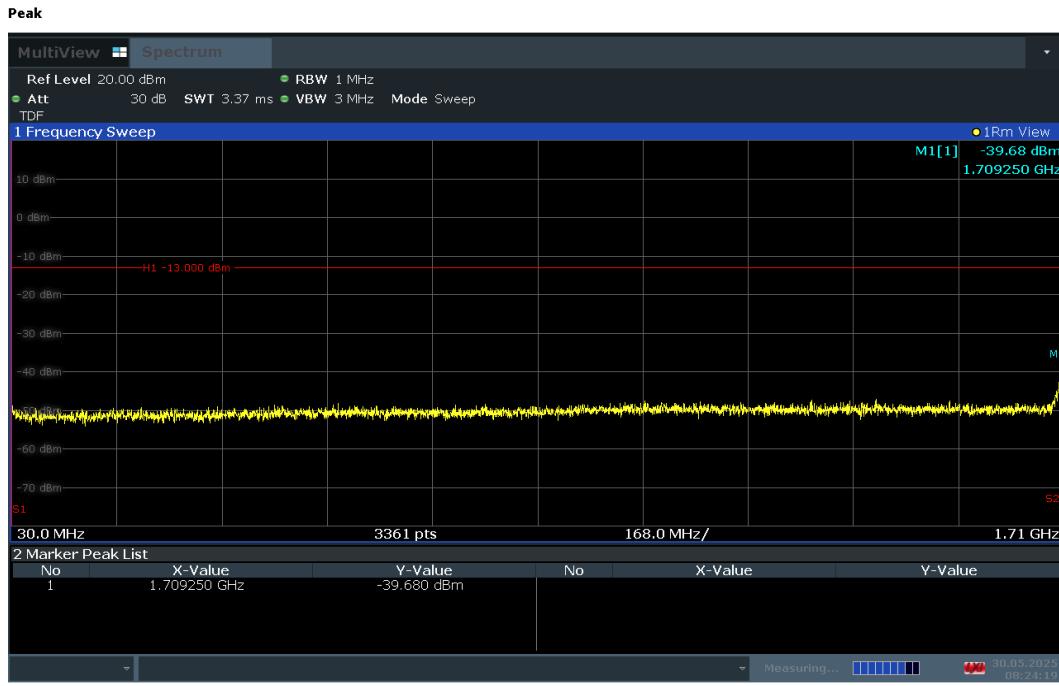
FCC ID: BCG-A3335	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270032-03.BCG	Test Dates: 4/3/2025 - 7/23/2025	EUT Type: Watch		Page 56 of 202

## Test Notes

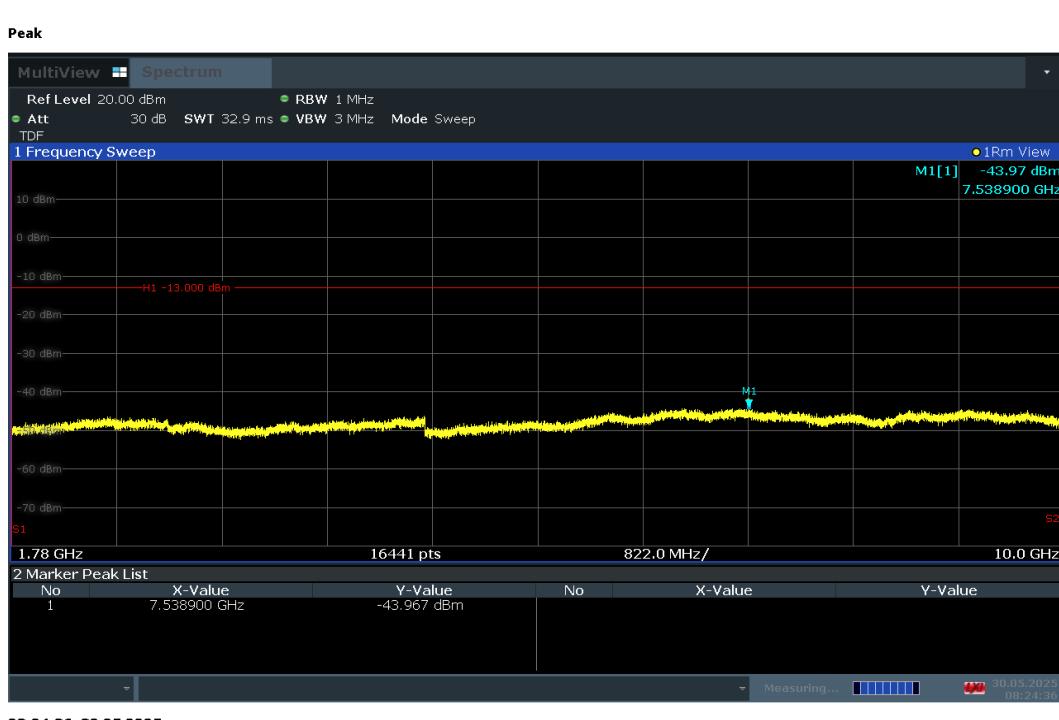
1. Per Part 27, compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth 100 kHz or greater for measurements below 1GHz. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least 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. Per Part 27.53(f), for operations in the 775-788 MHz band, emissions in the band 1559-1610 MHz shall be limited to -70dBW/MHz EIRP = -40dBm for wideband signals.
3. 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-A3335	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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## LTE Band 66/4

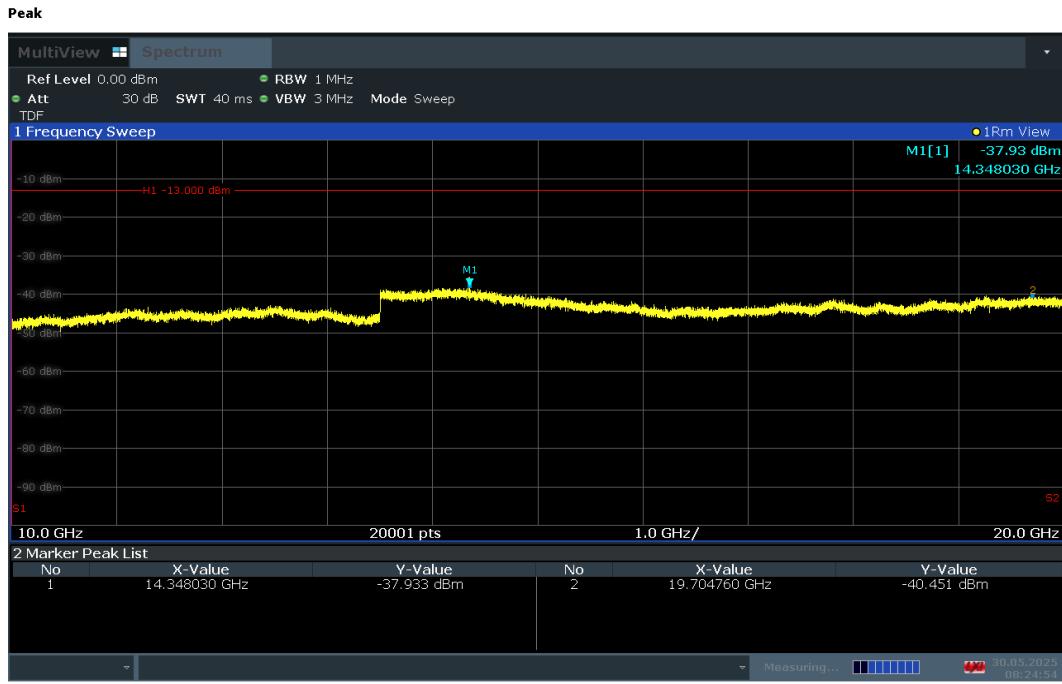


Plot 7-77. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - RB Size 1, RB Offset 50 - Low Channel)



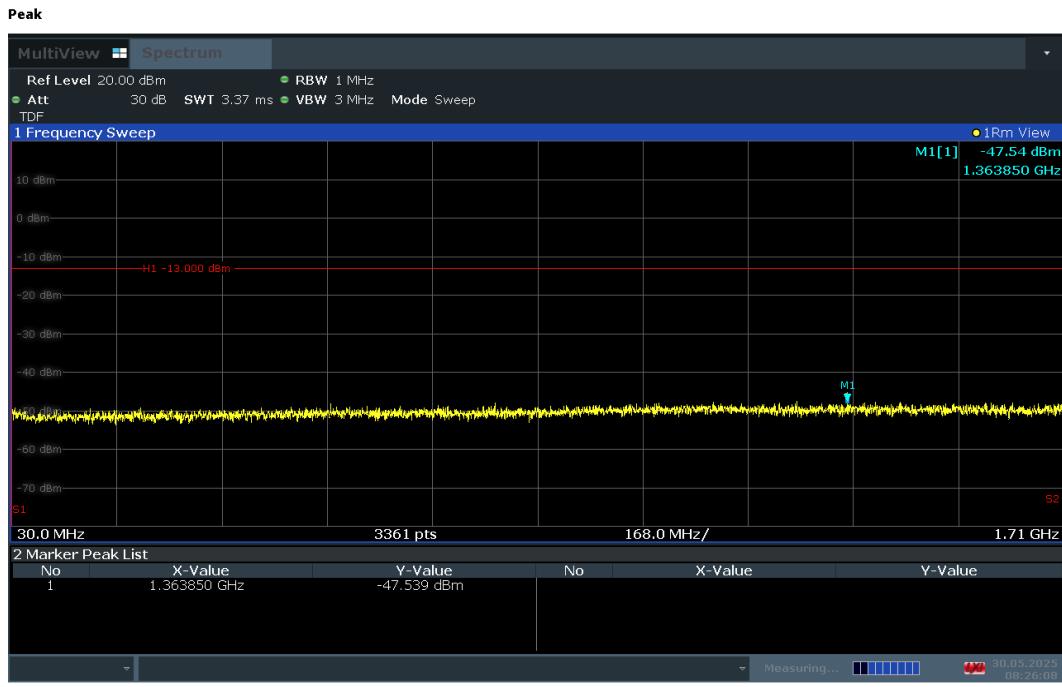
Plot 7-78. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - RB Size 1, RB Offset 50 - Low Channel)

FCC ID: BCG-A3335	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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08:24:54 30.05.2025

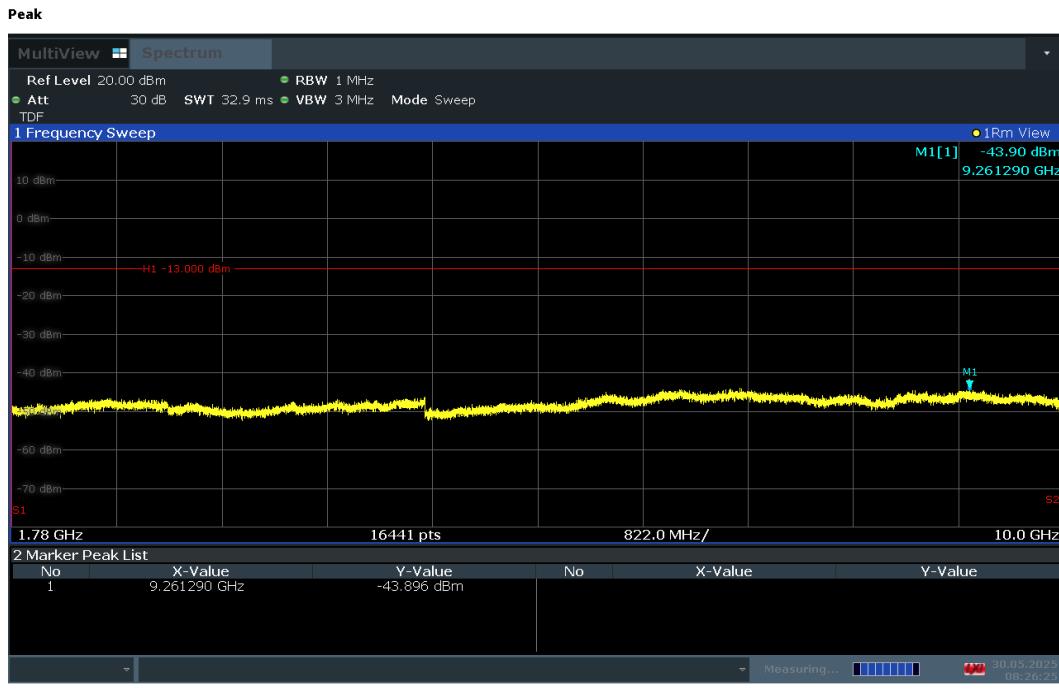
**Plot 7-79. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - RB Size 1, RB Offset 50 - Low Channel)**



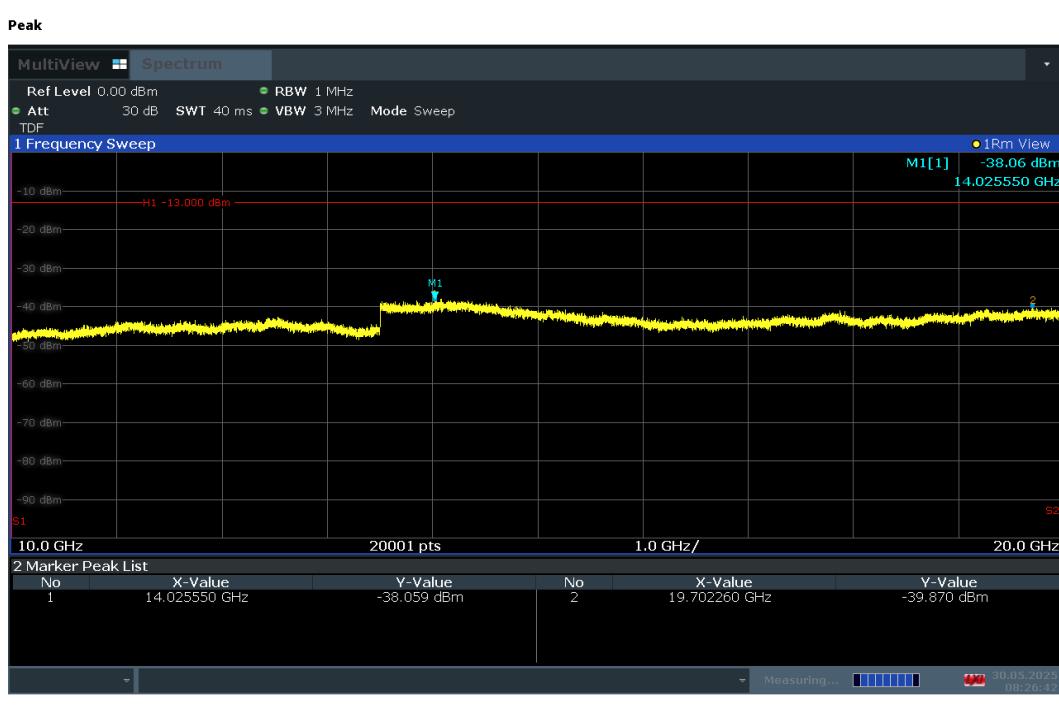
08:26:08 30.05.2025

**Plot 7-80. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - RB Size 1, RB Offset 50 - Mid Channel)**

FCC ID: BCG-A3335	element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270032-03.BCG	Test Dates: 4/3/2025 - 7/23/2025	EUT Type: Watch		Page 59 of 202

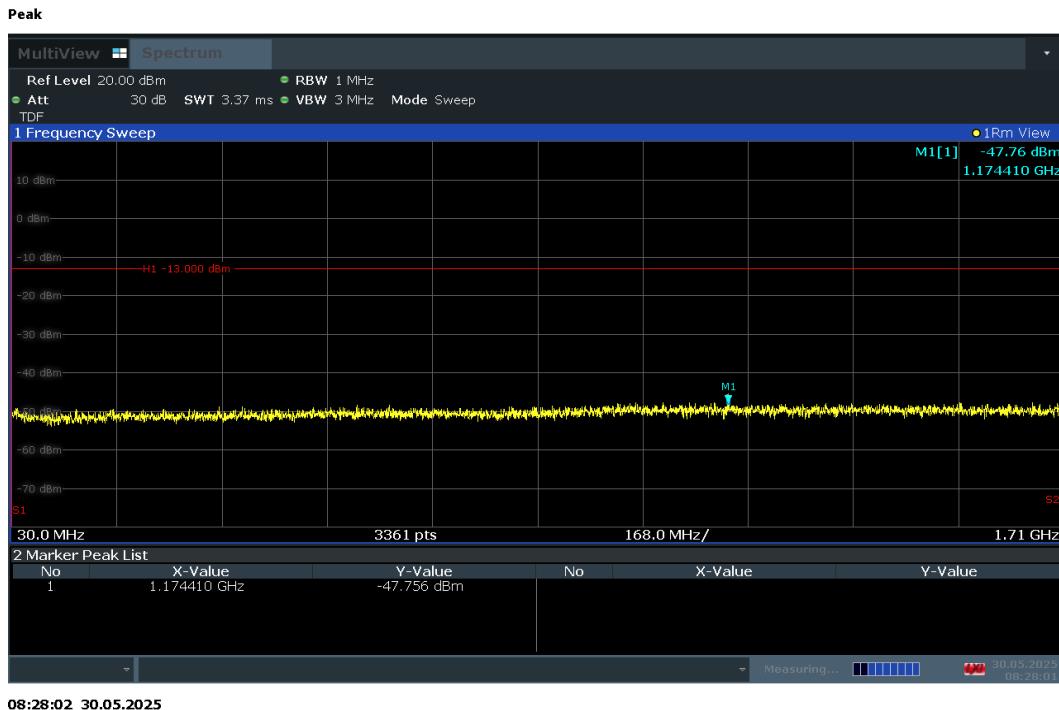


**Plot 7-81. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - RB Size 1, RB Offset 50 - Mid Channel)**

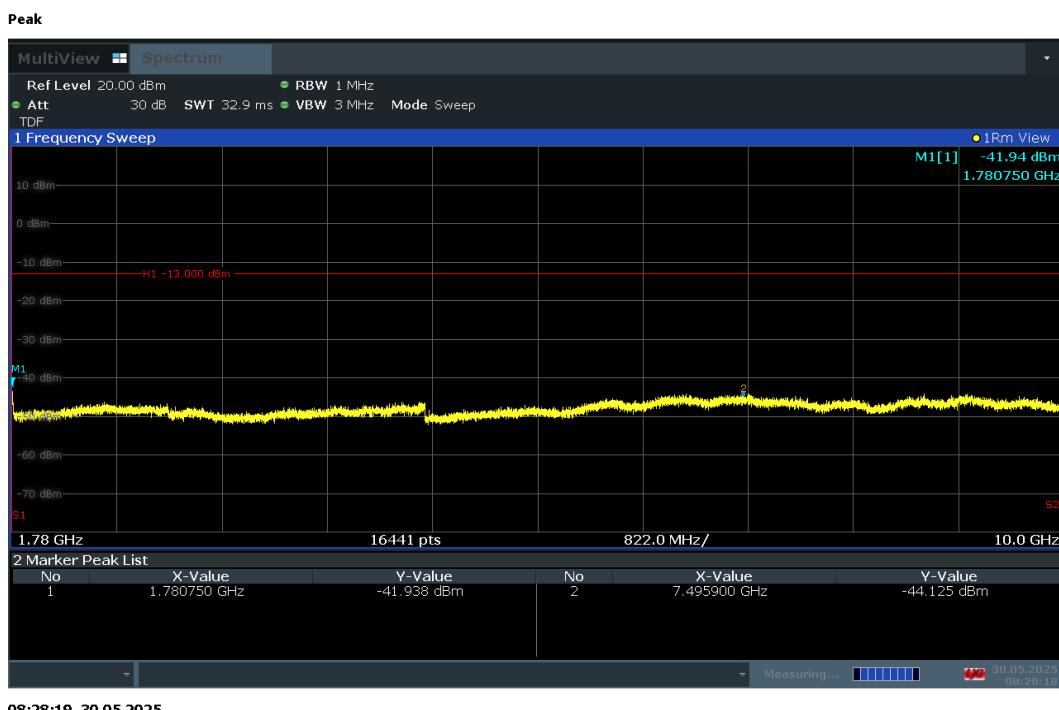


**Plot 7-82. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - RB Size 1, RB Offset 50 - Mid Channel)**

FCC ID: BCG-A3335	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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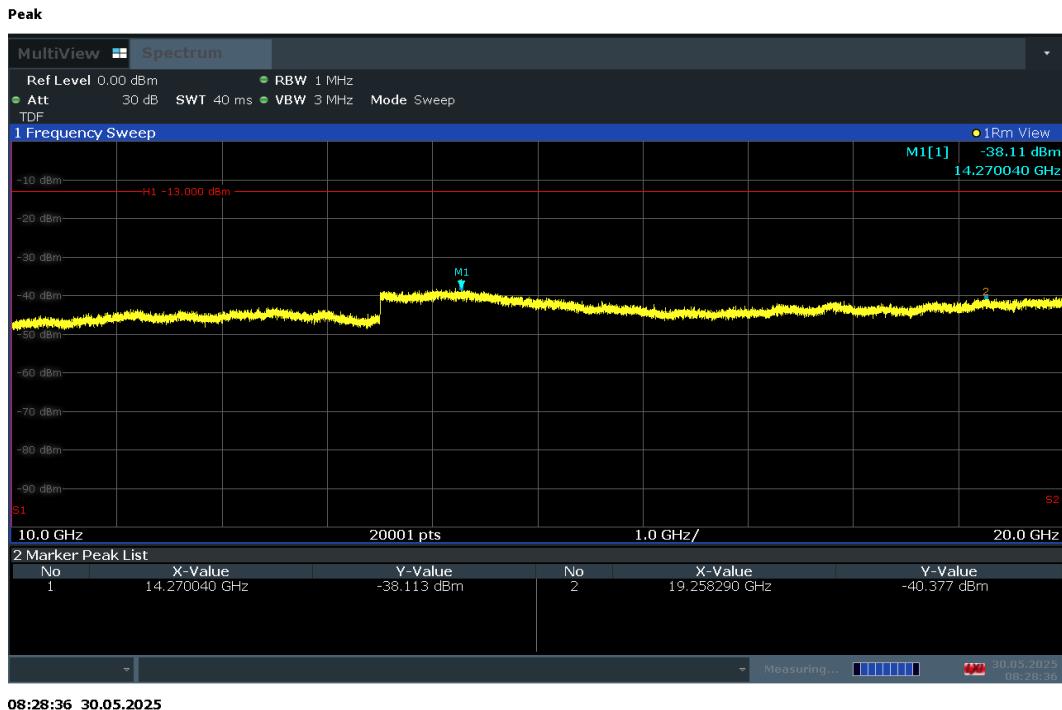


**Plot 7-83. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - RB Size 1, RB Offset 50 - High Channel)**



**Plot 7-84. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - RB Size 1, RB Offset 50 - High Channel)**

FCC ID: BCG-A3335	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270032-03.BCG	Test Dates: 4/3/2025 - 7/23/2025	EUT Type: Watch	Page 61 of 202	



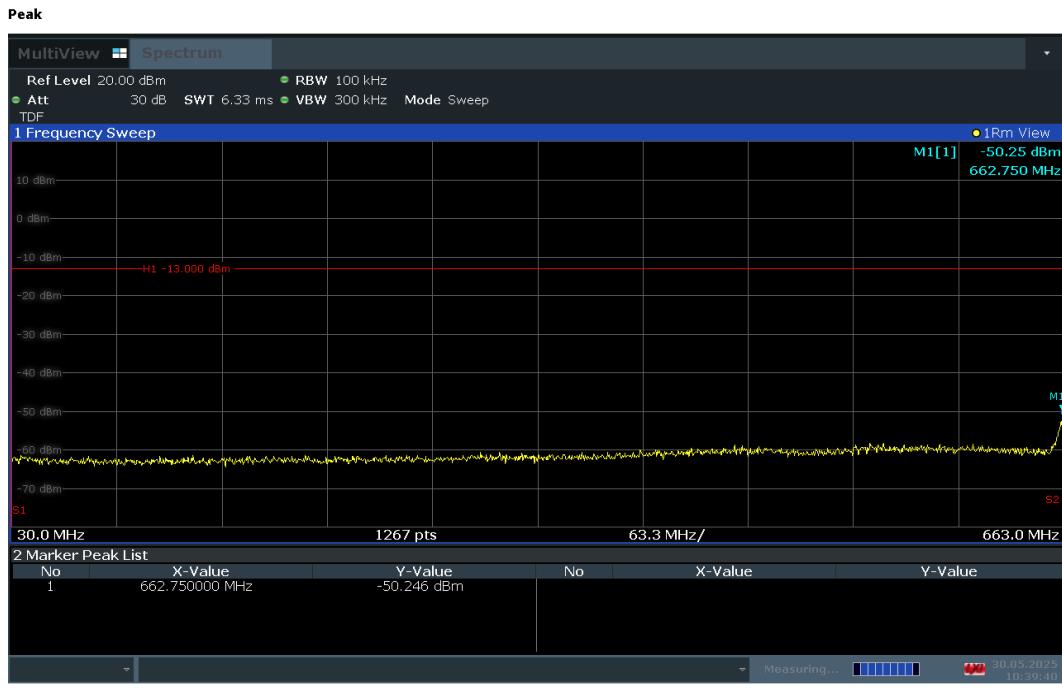
Plot 7-85. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - RB Size 1, RB Offset 50 - High Channel)

FCC ID: BCG-A3335	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
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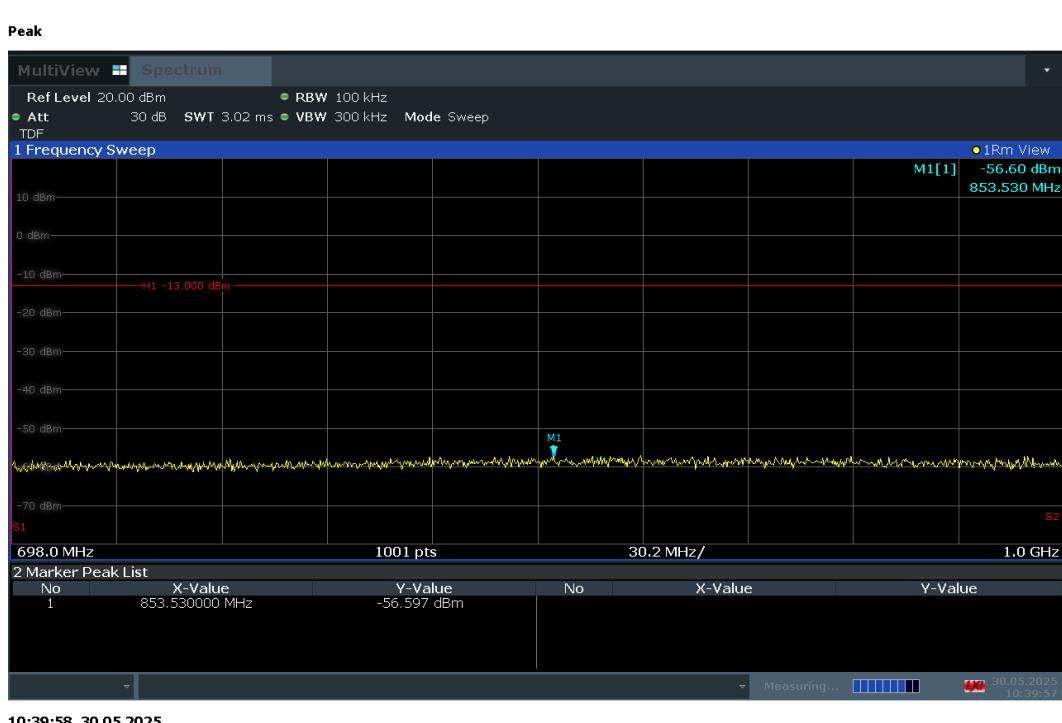
V2.2 09/07/2023

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## LTE Band 71

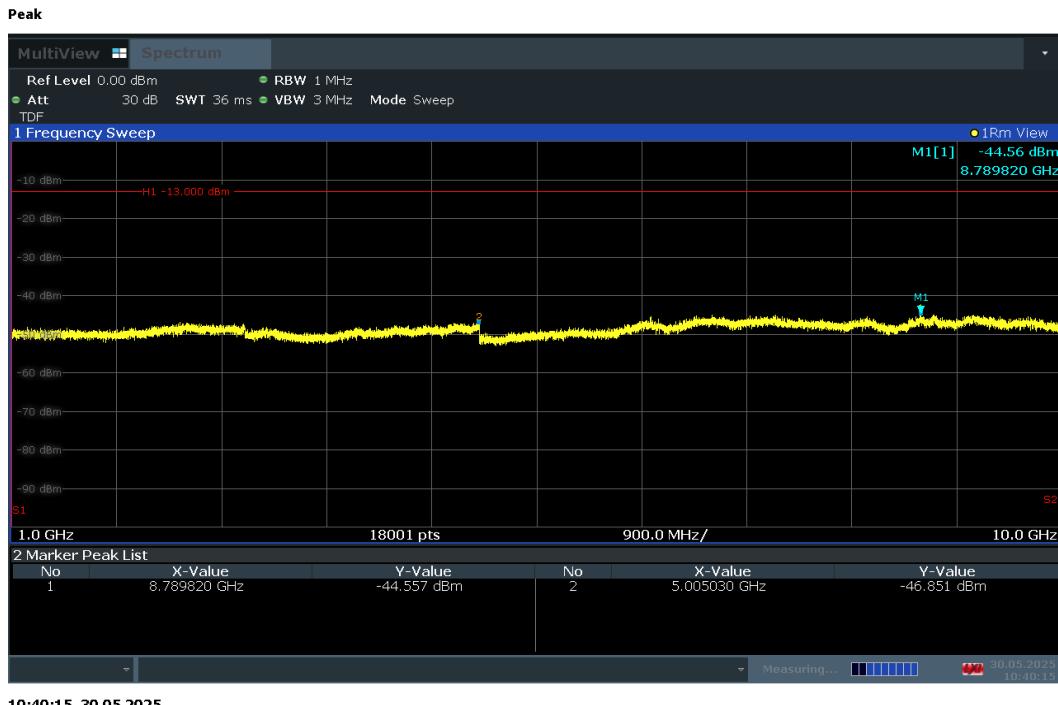


Plot 7-86. Conducted Spurious Plot (LTE Band 71 - 20MHz QPSK - RB Size 1, RB Offset 50 - Low Channel)

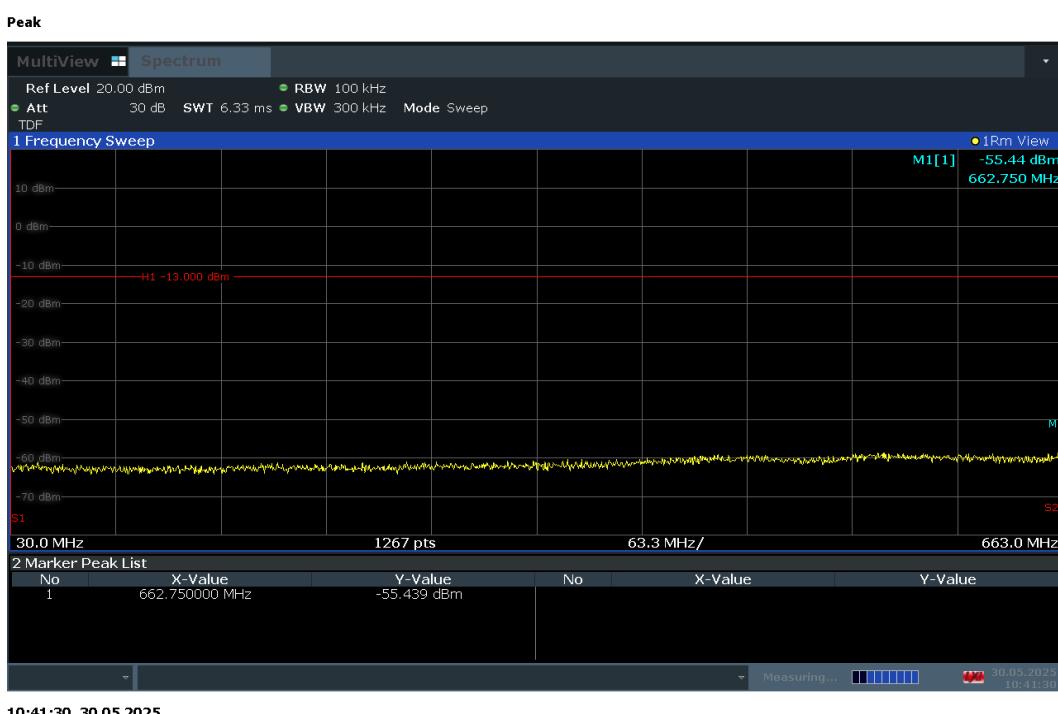


Plot 7-87. Conducted Spurious Plot (LTE Band 71 - 20MHz QPSK - RB Size 1, RB Offset 50 - Low Channel)

FCC ID: BCG-A3335	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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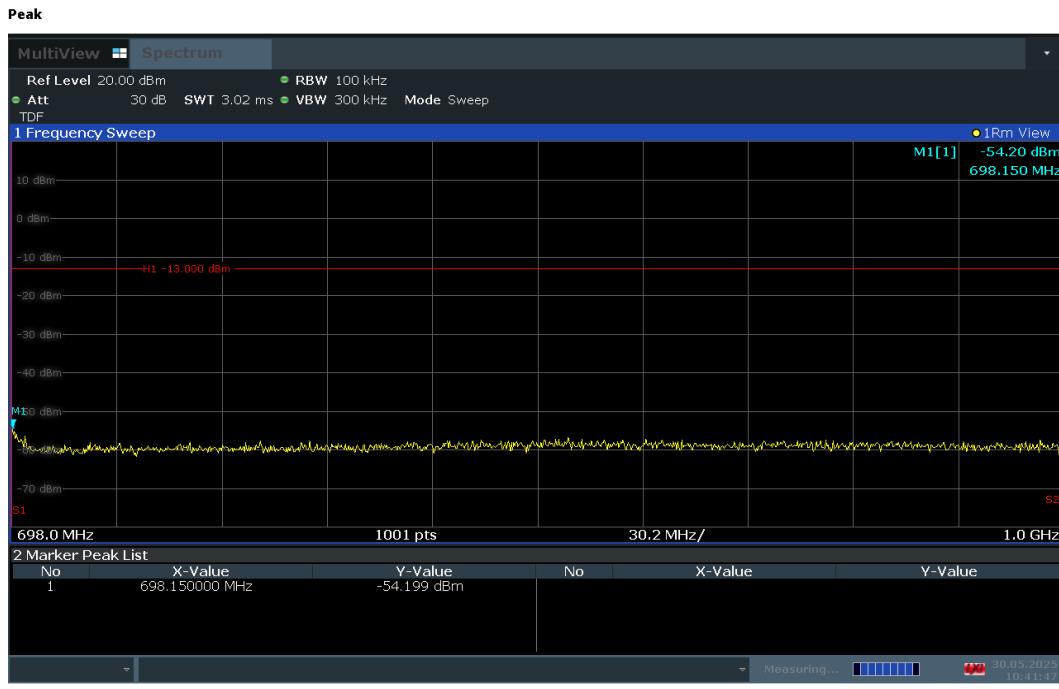


**Plot 7-88. Conducted Spurious Plot (LTE Band 71 - 20MHz QPSK - RB Size 1, RB Offset 50 - Low Channel)**



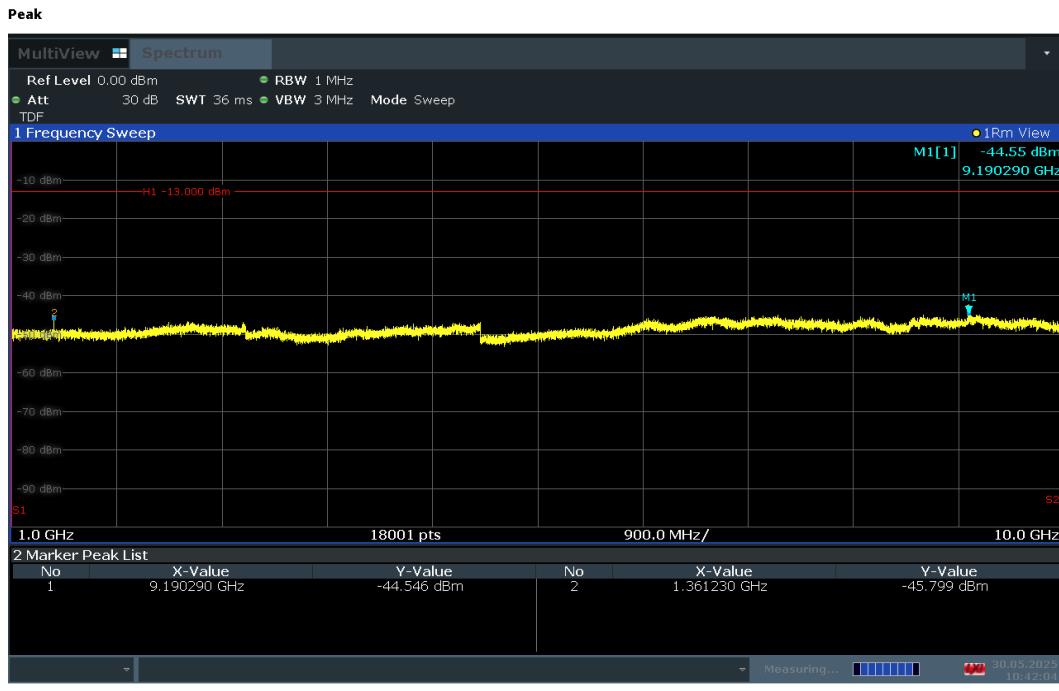
**Plot 7-89. Conducted Spurious Plot (LTE Band 71 - 20MHz QPSK - RB Size 1, RB Offset 50 - Mid Channel)**

FCC ID: BCG-A3335	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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10:41:48 30.05.2025

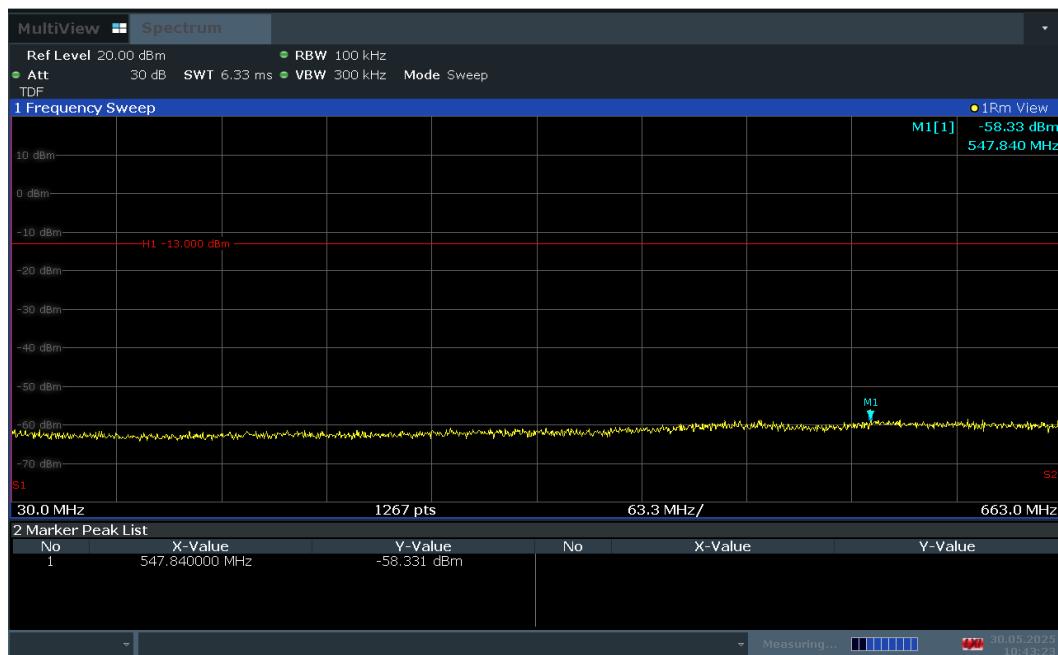
**Plot 7-90. Conducted Spurious Plot (LTE Band 71 - 20MHz QPSK - RB Size 1, RB Offset 50 - Mid Channel)**



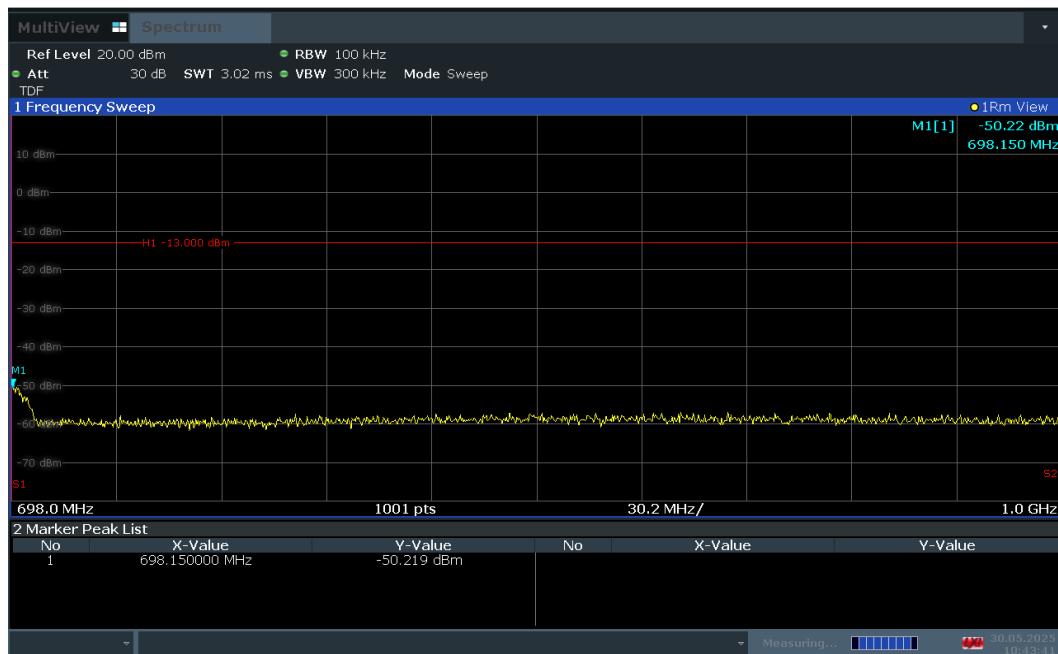
10:42:05 30.05.2025

**Plot 7-91. Conducted Spurious Plot (LTE Band 71 - 20MHz QPSK - RB Size 1, RB Offset 50 - Mid Channel)**

FCC ID: BCG-A3335	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270032-03.BCG	Test Dates: 4/3/2025 - 7/23/2025	EUT Type: Watch	Page 65 of 202	

**Peak**


10:43:24 30.05.2025

**Plot 7-92. Conducted Spurious Plot (LTE Band 71 - 20MHz QPSK - RB Size 1, RB Offset 50 - High Channel)**
**Peak**


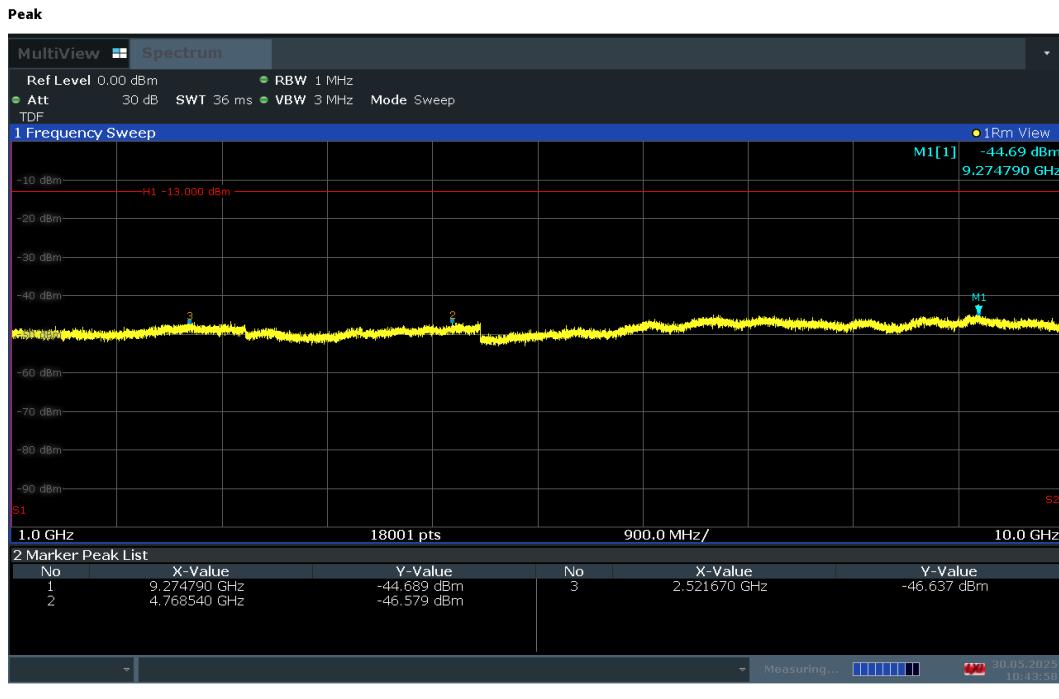
10:43:41 30.05.2025

**Plot 7-93. Conducted Spurious Plot (LTE Band 71 - 20MHz QPSK - RB Size 1, RB Offset 50 - High Channel)**

FCC ID: BCG-A3335	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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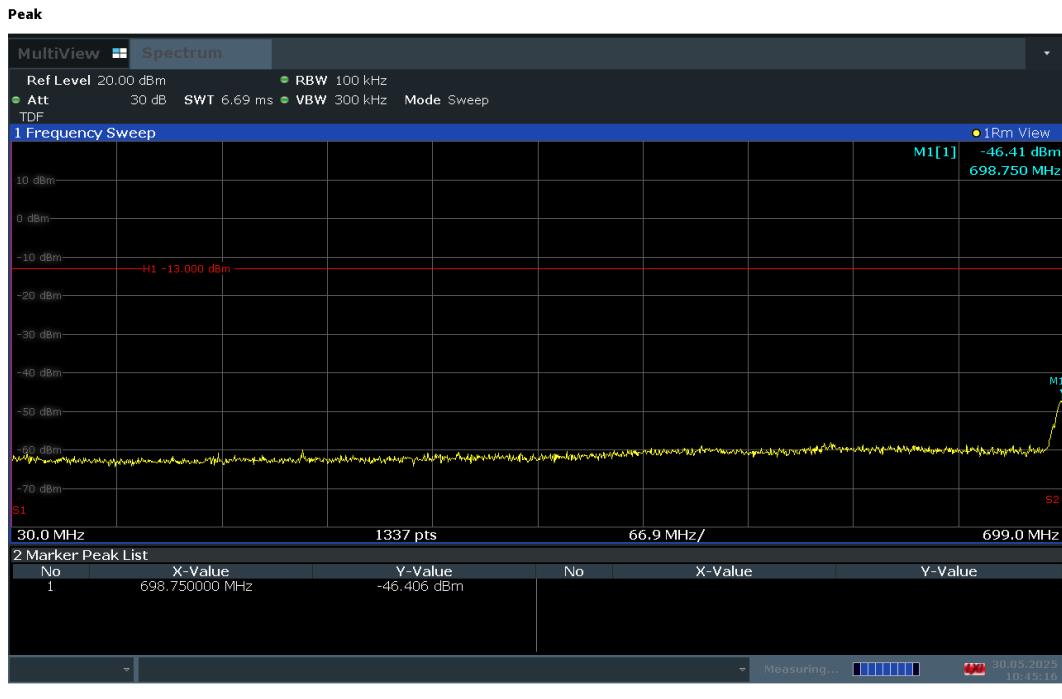
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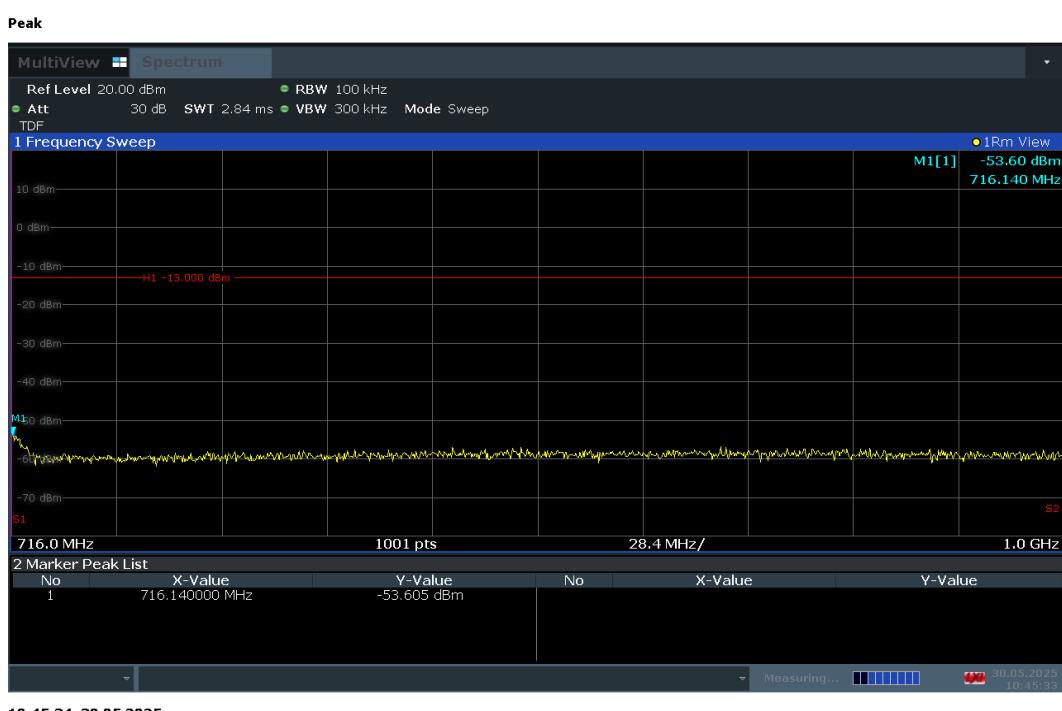
**Plot 7-94. Conducted Spurious Plot (LTE Band 71 - 20MHz QPSK - RB Size 1, RB Offset 50 - High Channel)**

FCC ID: BCG-A3335	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270032-03.BCG	Test Dates: 4/3/2025 - 7/23/2025	EUT Type: Watch		Page 67 of 202

## LTE Band 12/17

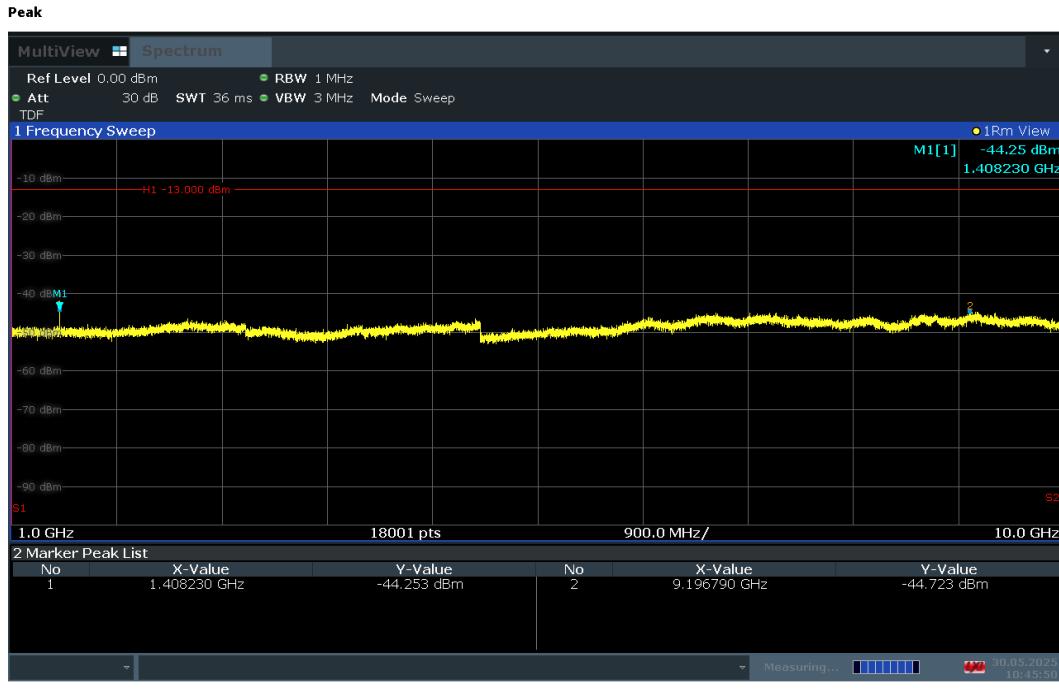


Plot 7-95. Conducted Spurious Plot (LTE Band 12/17 - 10MHz QPSK - RB Size 1, RB Offset 25 - Low Channel)

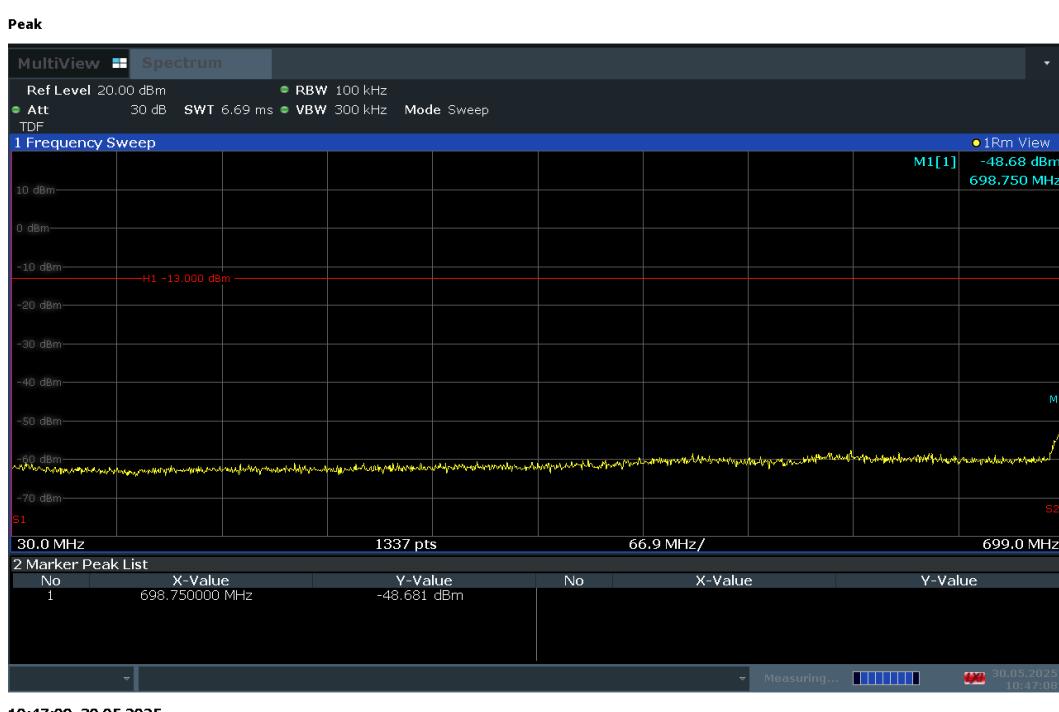


Plot 7-96. Conducted Spurious Plot (LTE Band 12/17 - 10MHz QPSK - RB Size 1, RB Offset 25 - Low Channel)

FCC ID: BCG-A3335	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270032-03.BCG	Test Dates: 4/3/2025 - 7/23/2025	EUT Type: Watch	Page 68 of 202	

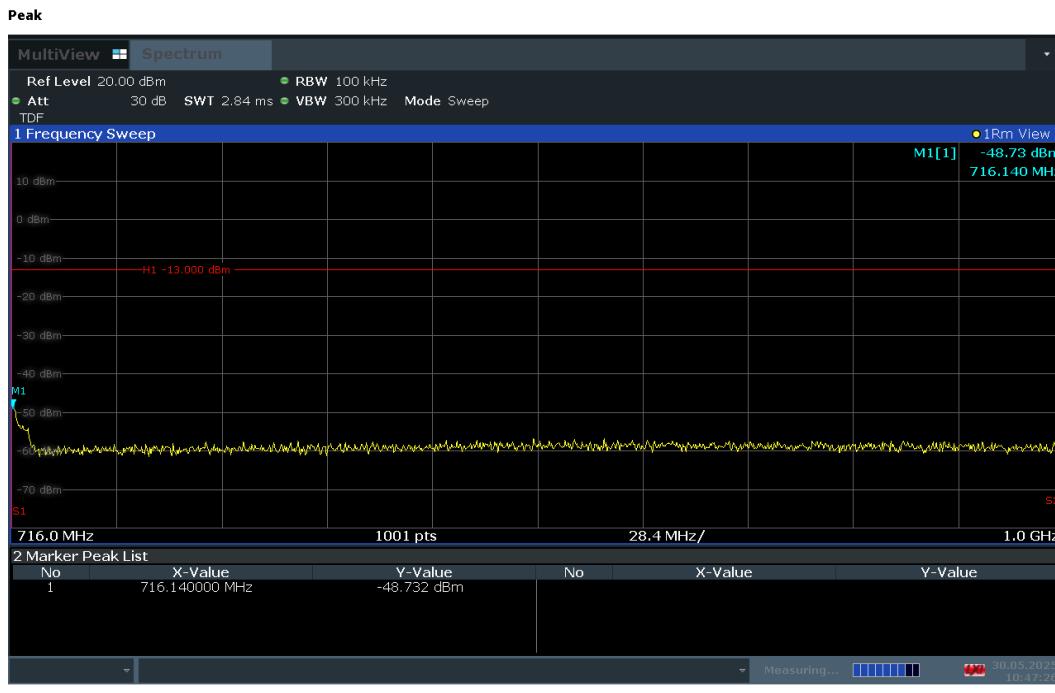


**Plot 7-97. Conducted Spurious Plot (LTE Band 12/17 - 10MHz QPSK - RB Size 1, RB Offset 25 - Low Channel)**

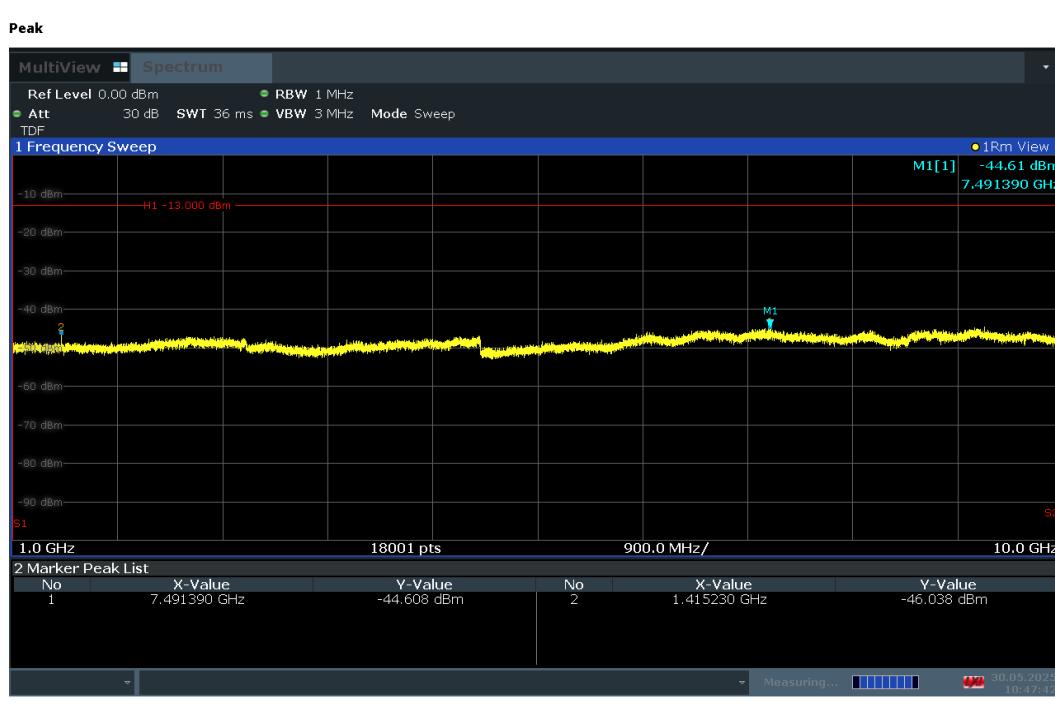


**Plot 7-98. Conducted Spurious Plot (LTE Band 12/17 - 10MHz QPSK - RB Size 1, RB Offset 25 - Mid Channel)**

FCC ID: BCG-A3335	element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270032-03.BCG	Test Dates: 4/3/2025 - 7/23/2025	EUT Type: Watch		Page 69 of 202

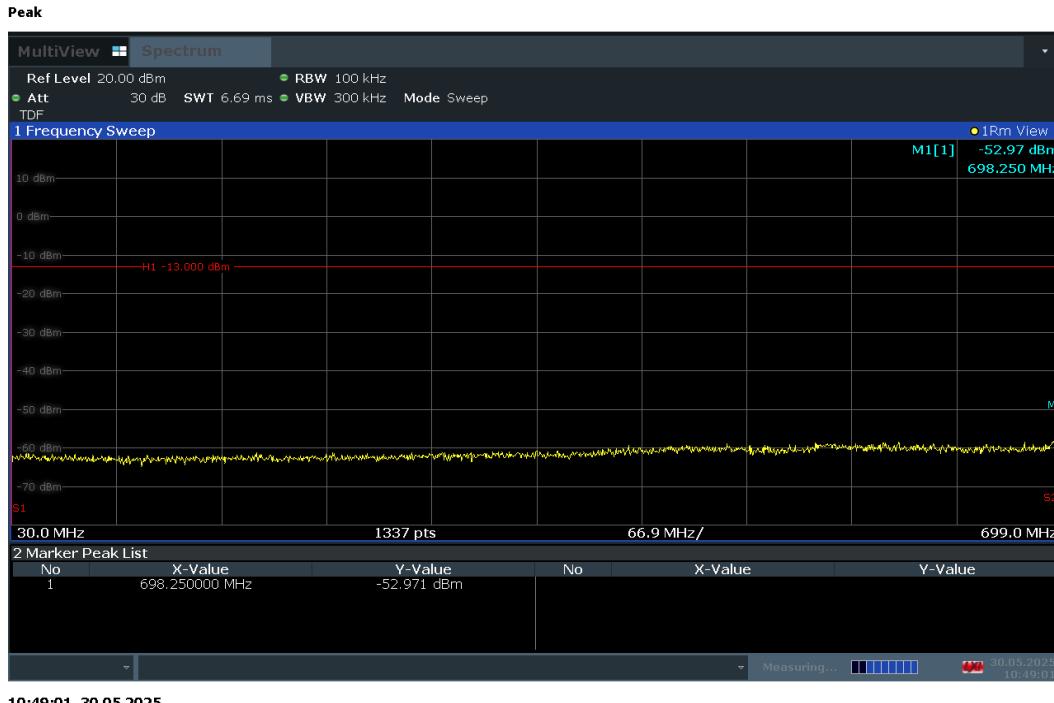


**Plot 7-99. Conducted Spurious Plot (LTE Band 12/17 - 10MHz QPSK - RB Size 1, RB Offset 25 - Mid Channel)**

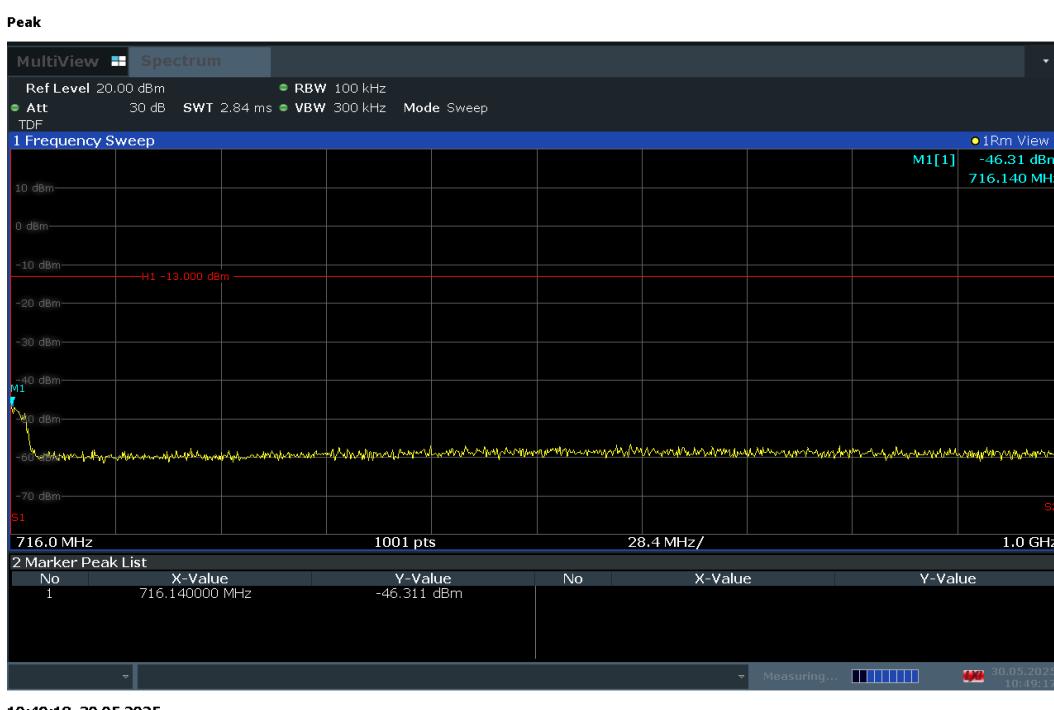


**Plot 7-100. Conducted Spurious Plot (LTE Band 12/17 - 10MHz QPSK - RB Size 1, RB Offset 25 - Mid Channel)**

FCC ID: BCG-A3335	element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270032-03.BCG	Test Dates: 4/3/2025 - 7/23/2025	EUT Type: Watch	Page 70 of 202	

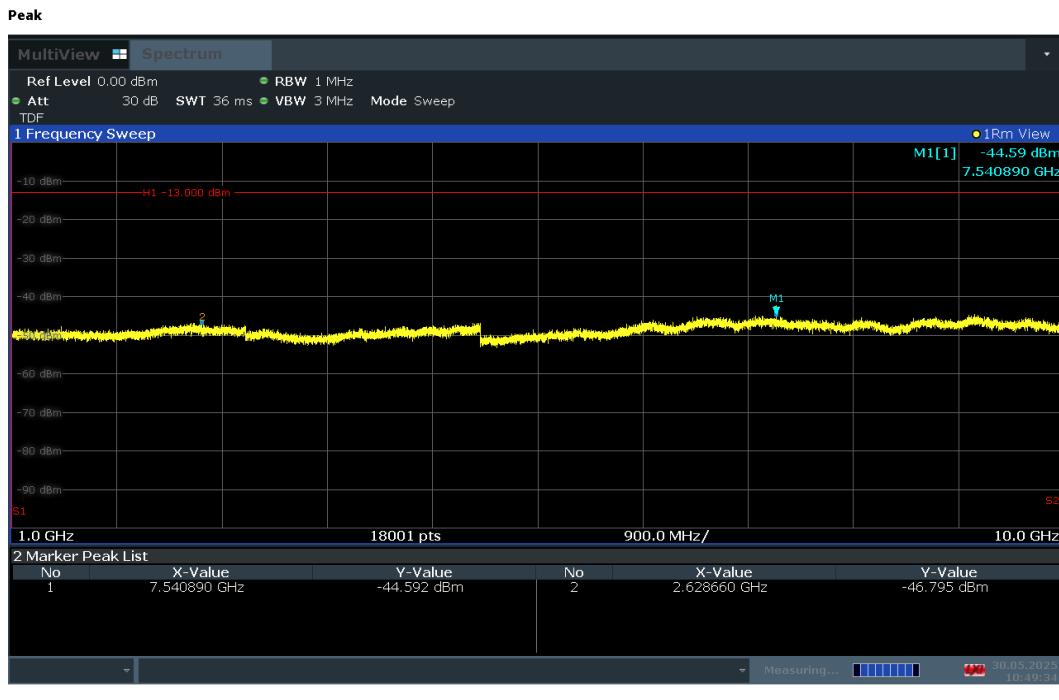


**Plot 7-101. Conducted Spurious Plot (LTE Band 12/17 - 10MHz QPSK - RB Size 1, RB Offset 25 - High Channel)**



**Plot 7-102. Conducted Spurious Plot (LTE Band 12/17 - 10MHz QPSK - RB Size 1, RB Offset 25 - High Channel)**

FCC ID: BCG-A3335	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270032-03.BCG	Test Dates: 4/3/2025 - 7/23/2025	EUT Type: Watch	Page 71 of 202	



Plot 7-103. Conducted Spurious Plot (LTE Band 12/17 - 10MHz QPSK - RB Size 1, RB Offset 25 - High Channel)

FCC ID: BCG-A3335	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270032-03.BCG	Test Dates: 4/3/2025 - 7/23/2025	EUT Type: Watch		Page 72 of 202