

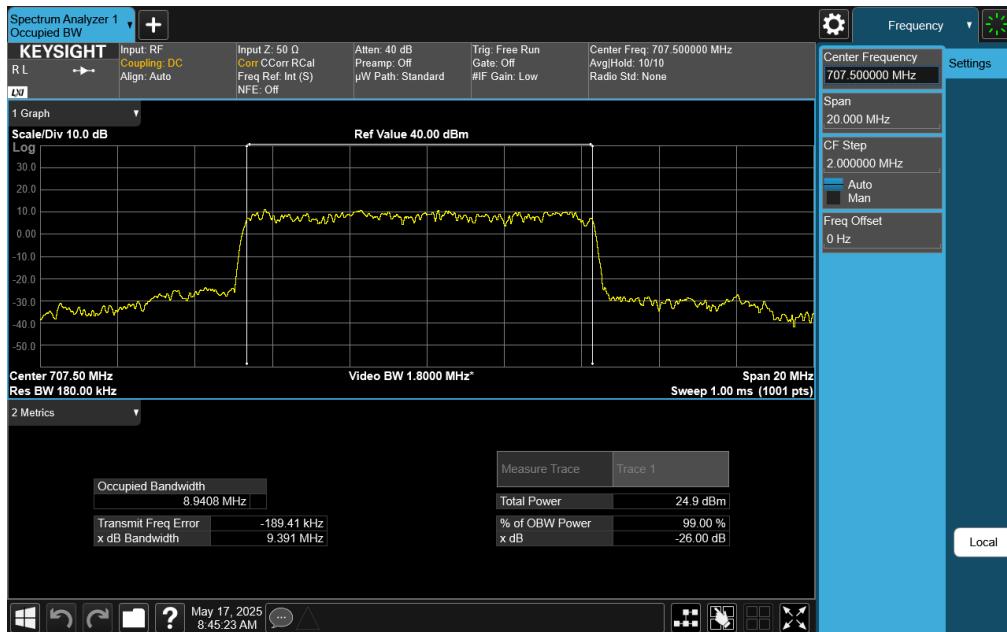


Plot 7-67. Occupied Bandwidth Plot (NR Band n12 - 5MHz CP-OFDM 16-QAM - Full RB)



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

FCC ID: BCG-A3328	e element		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270037-03.BCG	Test Dates: 12/20/2024 - 7/19/2025	EUT Type: Watch	Page 50 of 202	

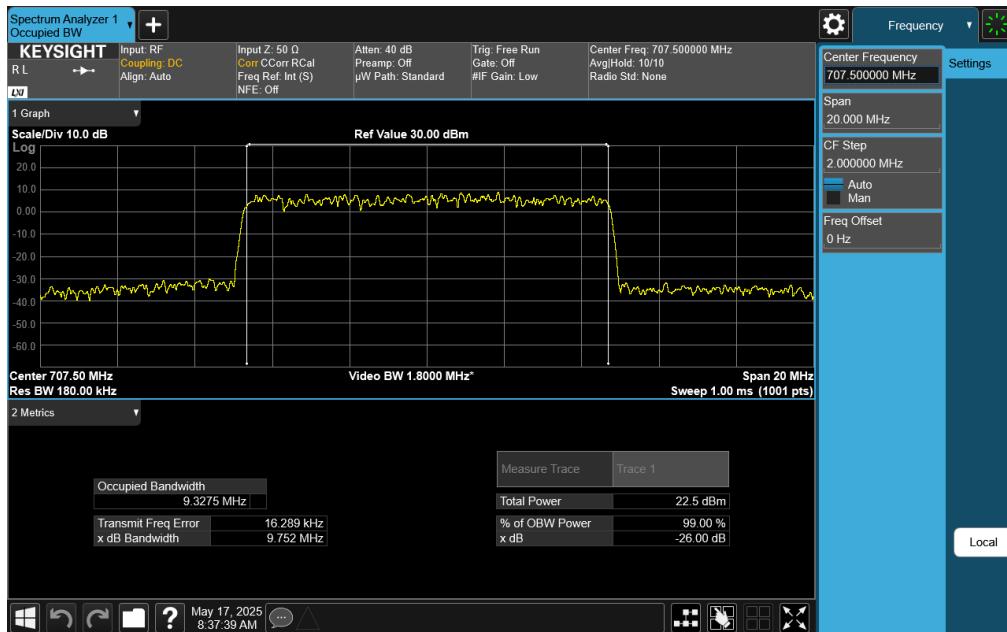


Plot 7-69. Occupied Bandwidth Plot (NR Band n12 - 10MHz DFT-s-OFDM  $\pi/2$  BPSK - Full RB)



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

FCC ID: BCG-A3328	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270037-03.BCG	Test Dates: 12/20/2024 - 7/19/2025	EUT Type: Watch		Page 51 of 202

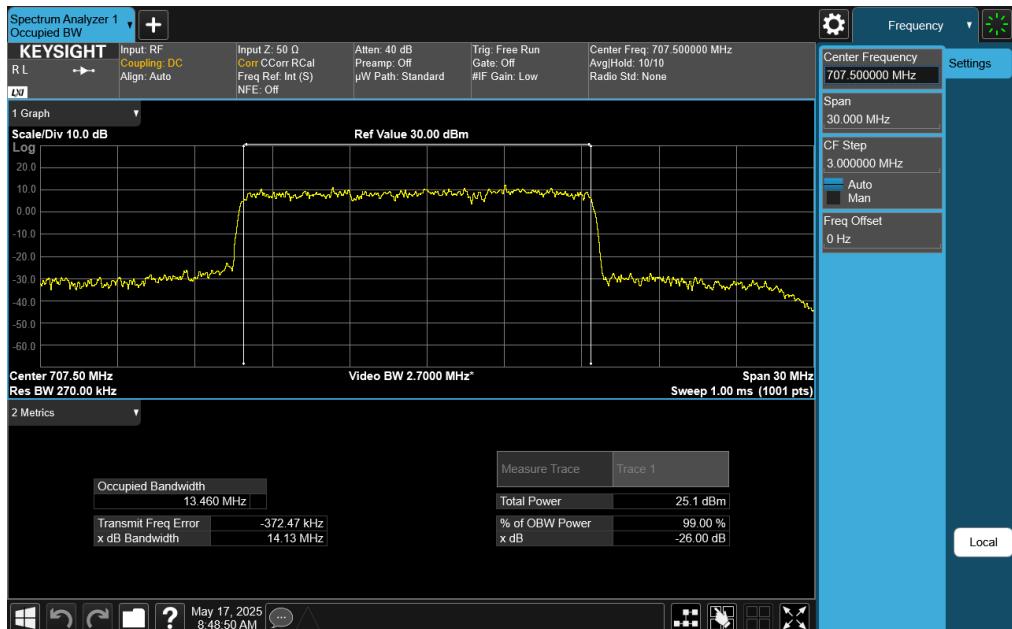


Plot 7-71. Occupied Bandwidth Plot (NR Band n12 - 10MHz CP-OFDM 16-QAM - Full RB)



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

FCC ID: BCG-A3328	element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270037-03.BCG	Test Dates: 12/20/2024 - 7/19/2025	EUT Type: Watch	Page 52 of 202	

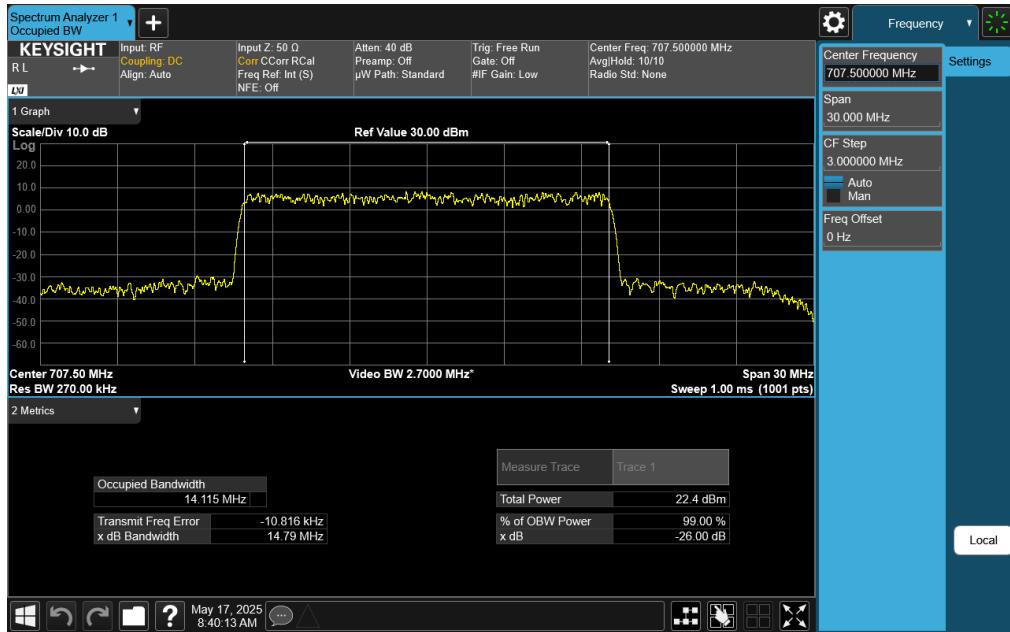


Plot 7-73. Occupied Bandwidth Plot (NR Band n12 - 15MHz DFT-s-OFDM  $\pi/2$  BPSK - Full RB)

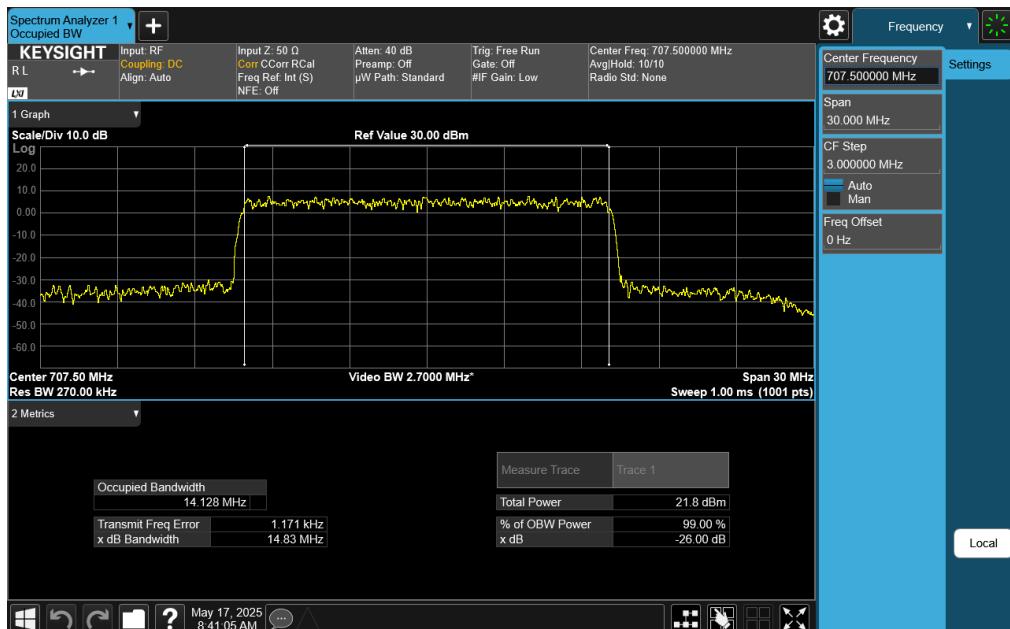


Plot 7-74. Occupied Bandwidth Plot (NR Band n12 - 15MHz CP-OFDM QPSK - Full RB)

FCC ID: BCG-A3328	 <b>PART 27 MEASUREMENT REPORT</b>	Approved by: Technical Manager
<b>Test Report S/N:</b> 1C2503270037-03.BCG	<b>Test Dates:</b> 12/20/2024 - 7/19/2025	<b>EUT Type:</b> Watch



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-A3328	element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270037-03.BCG	Test Dates: 12/20/2024 - 7/19/2025	EUT Type: Watch	Page 54 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.

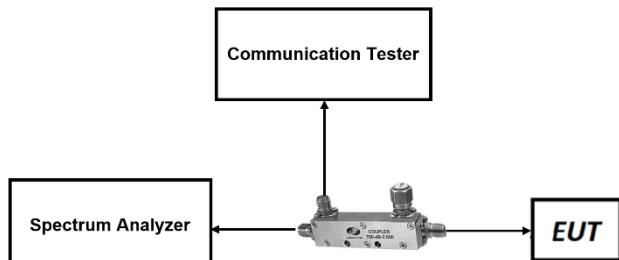


Figure 7-3. Test Instrument & Measurement Setup

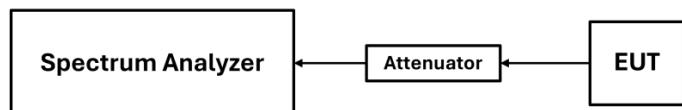


Figure 7-4. FR1 Test Instrument & Measurement Setup

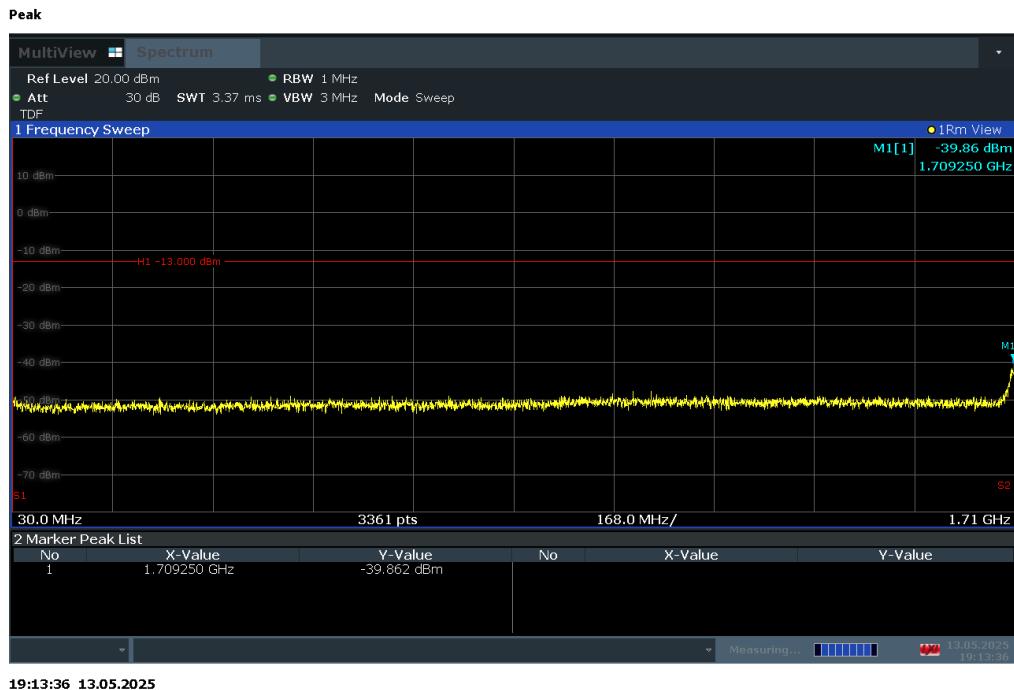
FCC ID: BCG-A3328	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270037-03.BCG	Test Dates: 12/20/2024 - 7/19/2025	EUT Type: Watch		Page 55 of 202

## Test Notes

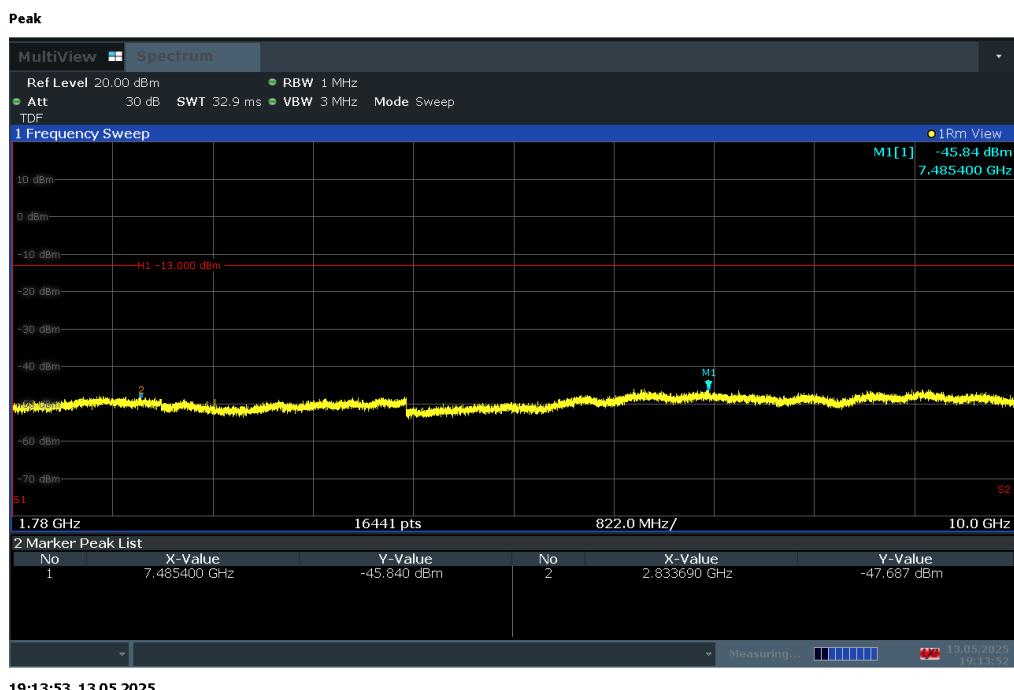
1. Per Part 27, compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth 100 kHz or greater for measurements below 1GHz. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least 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. 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	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270037-03.BCG	Test Dates: 12/20/2024 - 7/19/2025	EUT Type: Watch		Page 56 of 202

## LTE Band 66/4

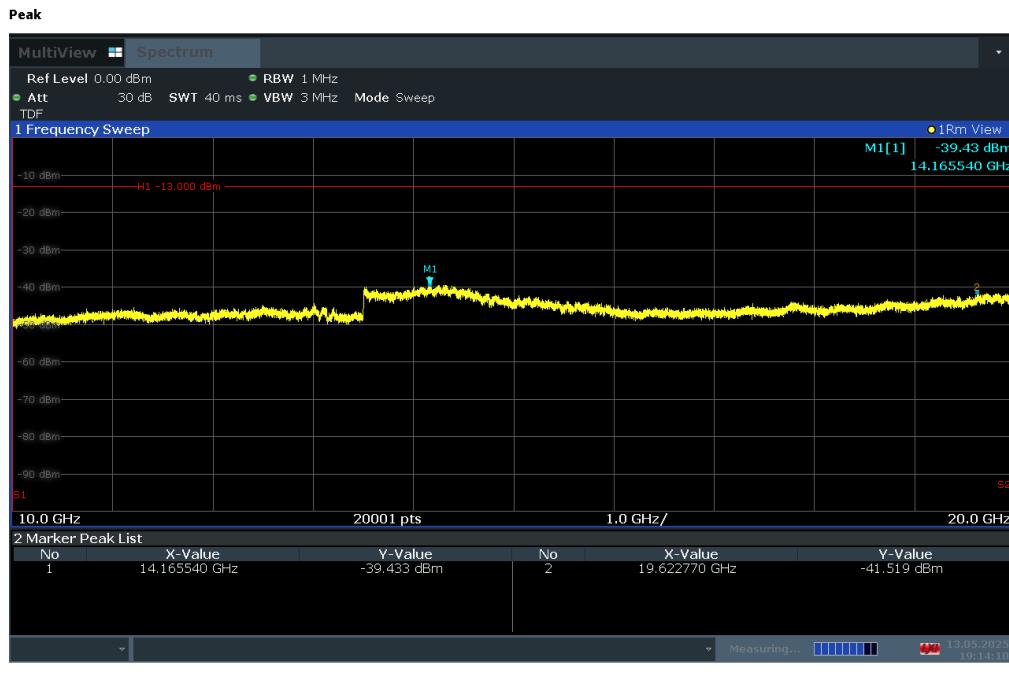


Plot 7-77. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - RB Size 1, RB Offset 50 - Low Channel)

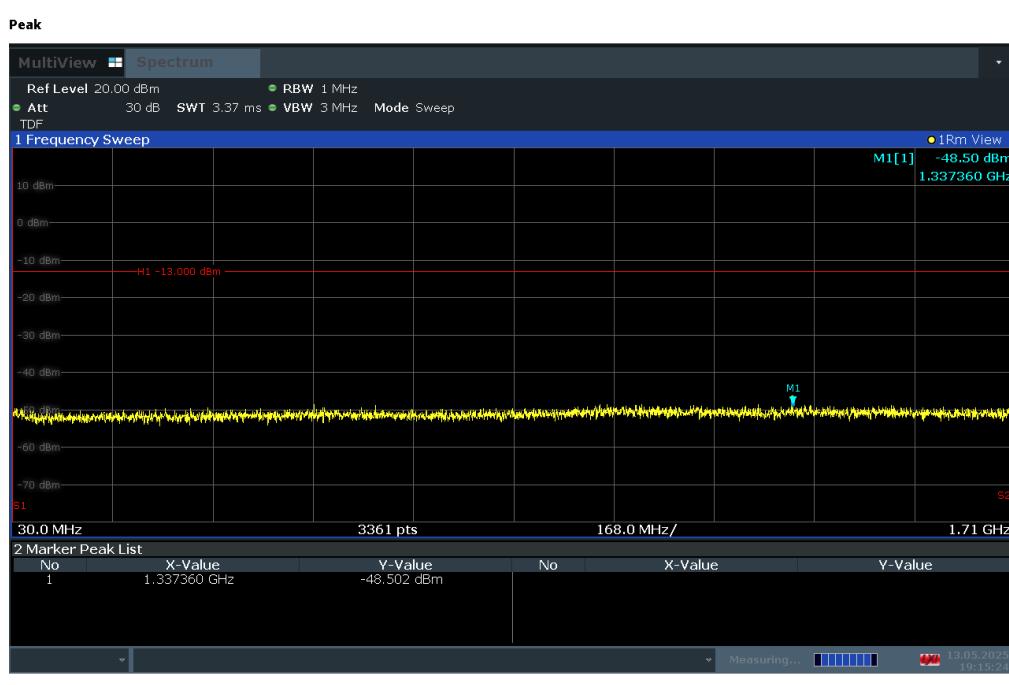


Plot 7-78. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - RB Size 1, RB Offset 50 - Low Channel)

FCC ID: BCG-A3328	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270037-03.BCG	Test Dates: 12/20/2024 - 7/19/2025	EUT Type: Watch	Page 57 of 202	

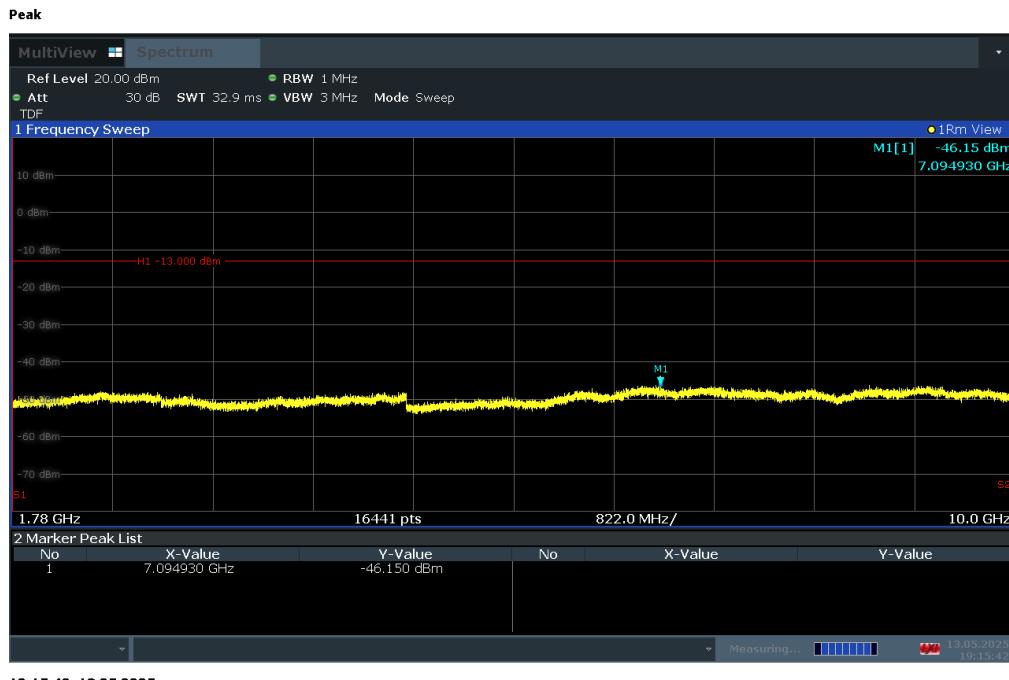


**Plot 7-79. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - RB Size 1, RB Offset 50 - Low Channel)**

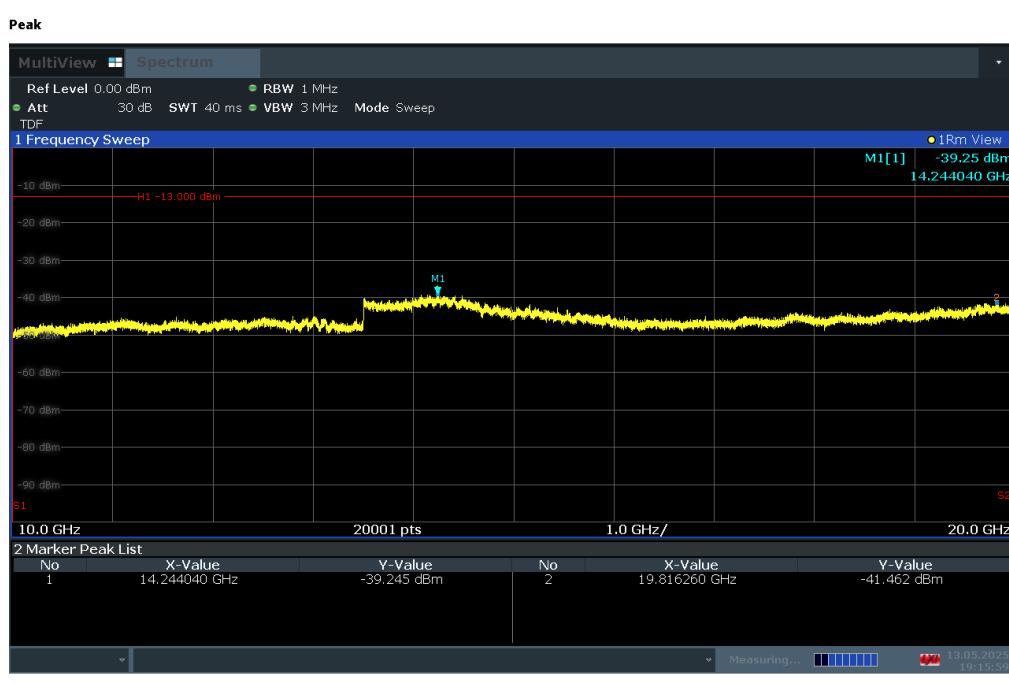


**Plot 7-80. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - RB Size 1, RB Offset 50 - Mid Channel)**

FCC ID: BCG-A3328	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270037-03.BCG	Test Dates: 12/20/2024 - 7/19/2025	EUT Type: Watch	Page 58 of 202	

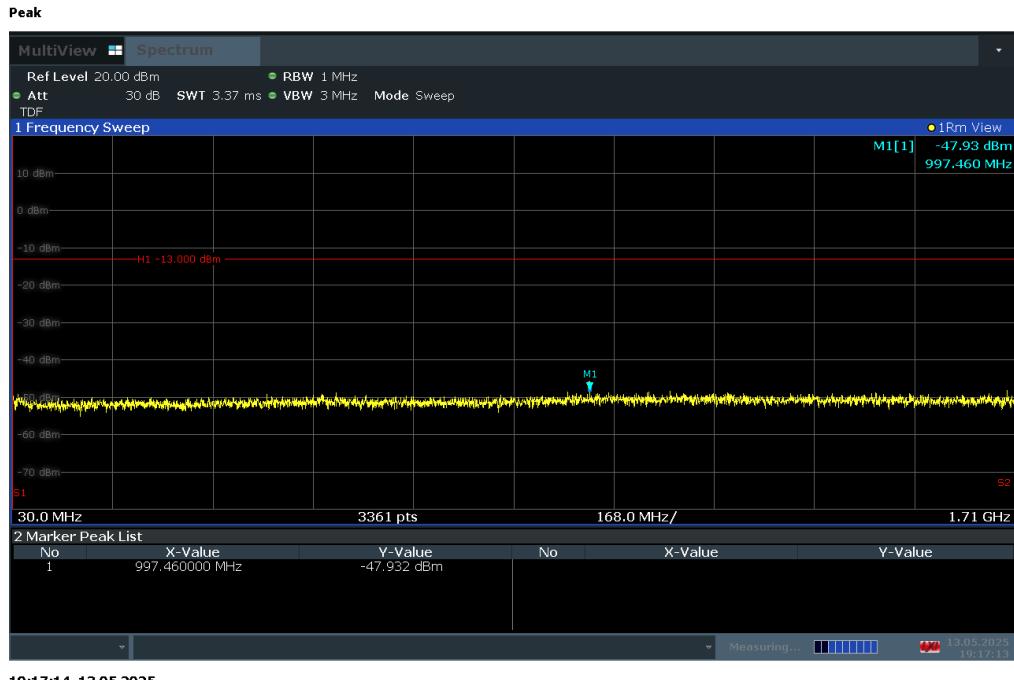


**Plot 7-81. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - RB Size 1, RB Offset 50 - Mid Channel)**

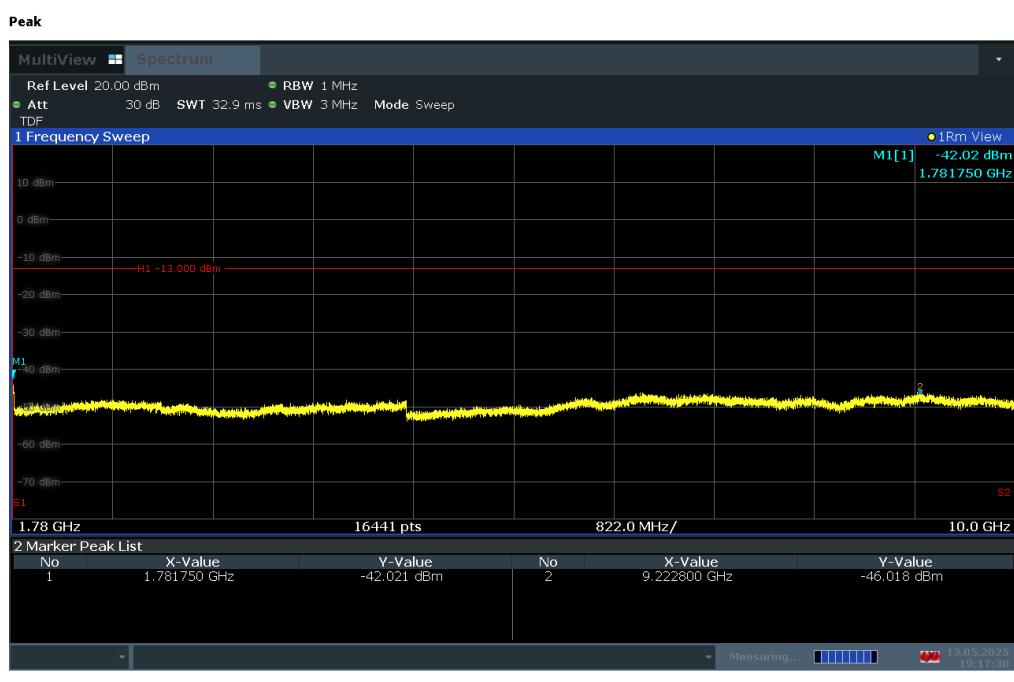


**Plot 7-82. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - RB Size 1, RB Offset 50 - Mid Channel)**

FCC ID: BCG-A3328	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270037-03.BCG	Test Dates: 12/20/2024 - 7/19/2025	EUT Type: Watch	Page 59 of 202	

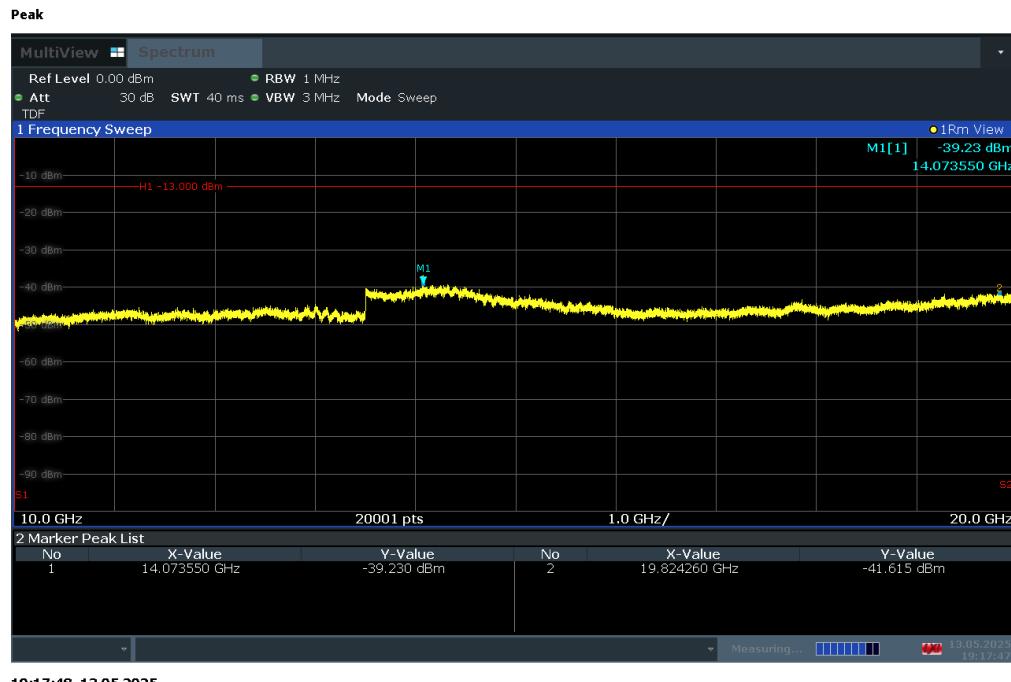


**Plot 7-83. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - RB Size 1, RB Offset 50 - High Channel)**



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

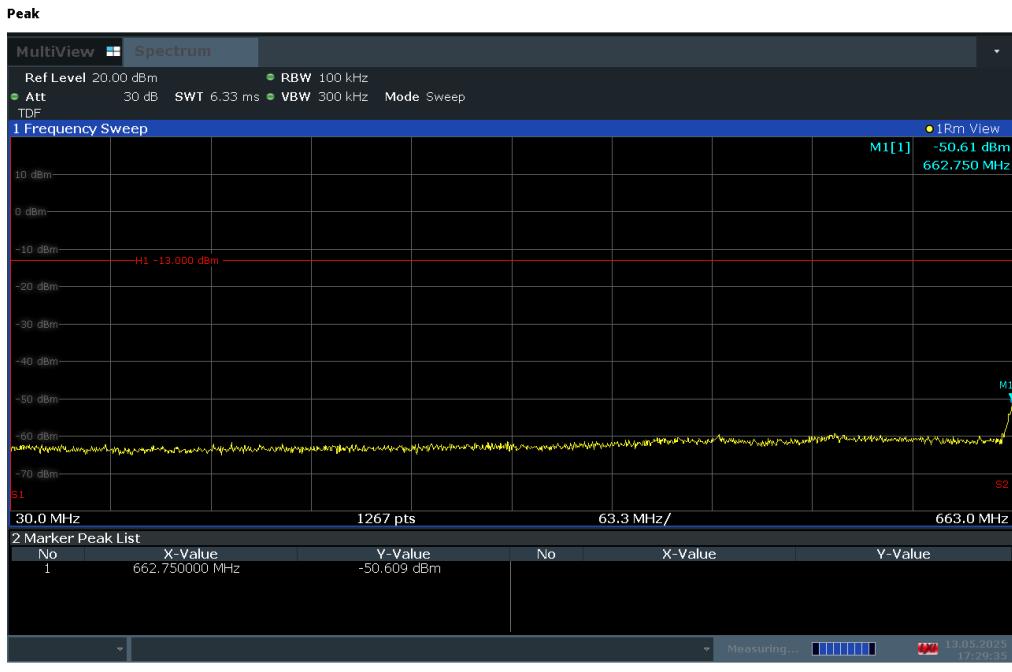
FCC ID: BCG-A3328	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270037-03.BCG	Test Dates: 12/20/2024 - 7/19/2025	EUT Type: Watch	Page 60 of 202	



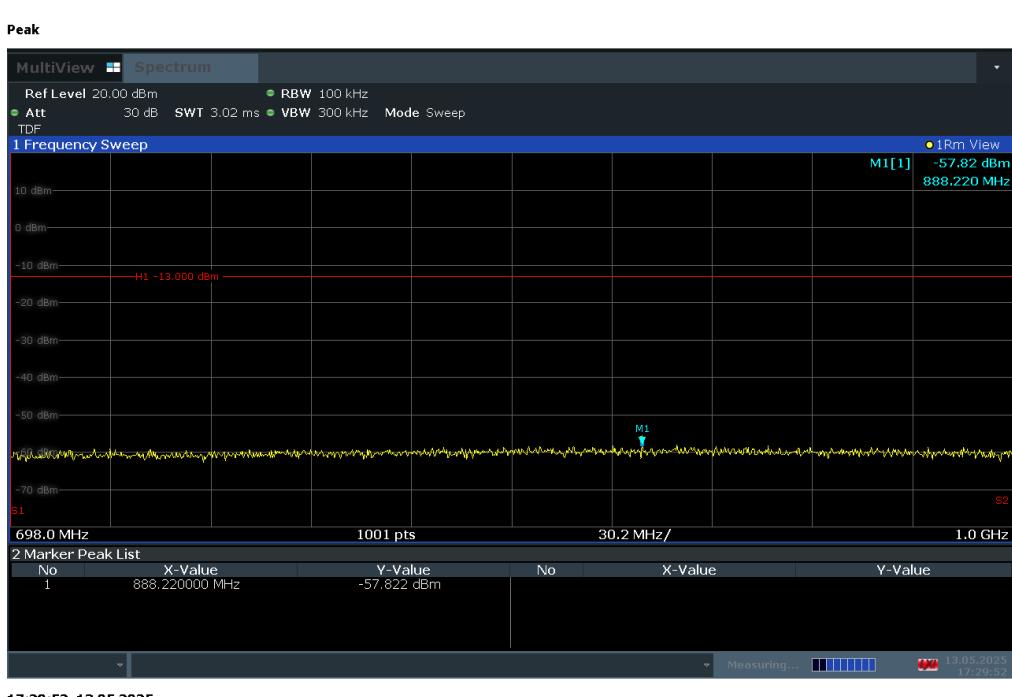
**Plot 7-85. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - RB Size 1, RB Offset 50 - High Channel)**

FCC ID: BCG-A3328	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270037-03.BCG	Test Dates: 12/20/2024 - 7/19/2025	EUT Type: Watch		Page 61 of 202

## LTE Band 71

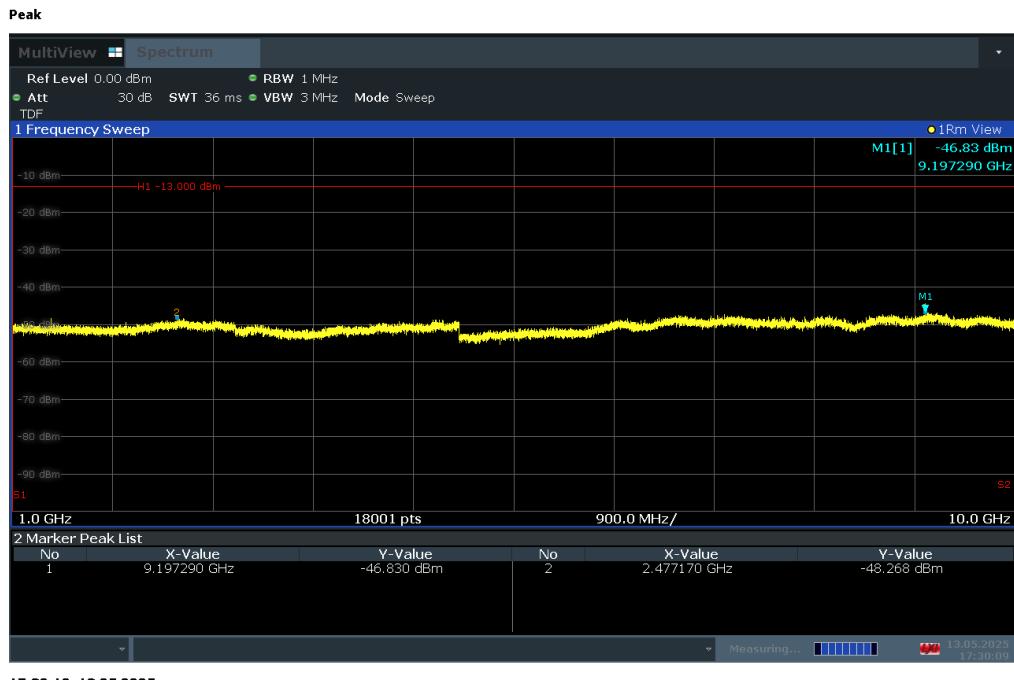


**Plot 7-86. Conducted Spurious Plot (LTE Band 71 - 20MHz QPSK - RB Size 1, RB Offset 50 - Low Channel)**

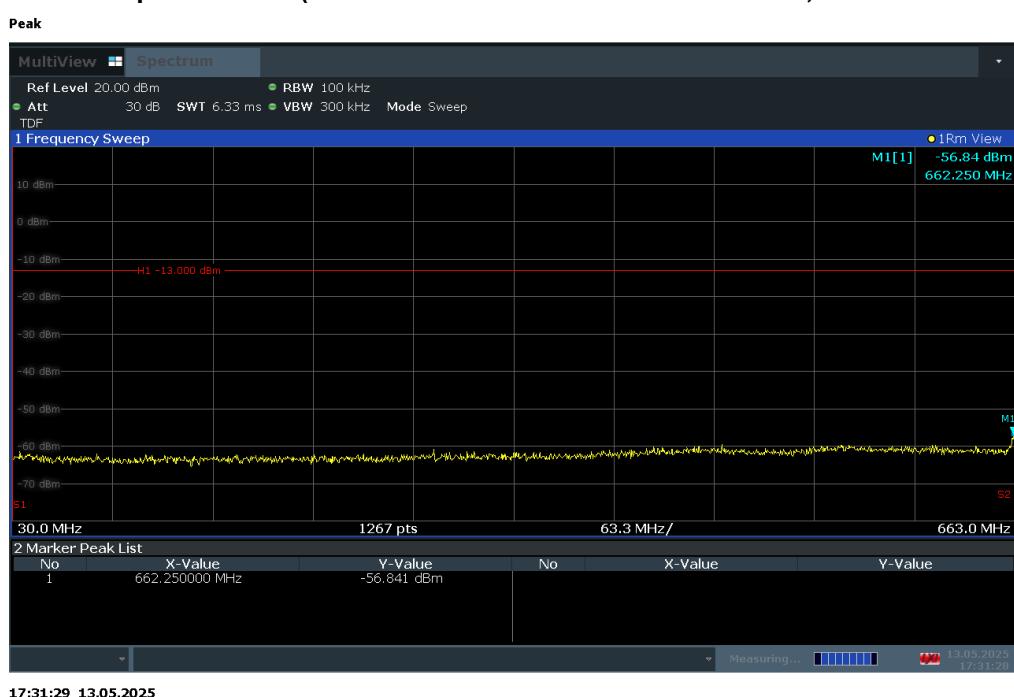


**Plot 7-87. Conducted Spurious Plot (LTE Band 71 - 20MHz QPSK - RB Size 1, RB Offset 50 - Low Channel)**

FCC ID: BCG-A3328	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270037-03.BCG	Test Dates: 12/20/2024 - 7/19/2025	EUT Type: Watch	Page 62 of 202	

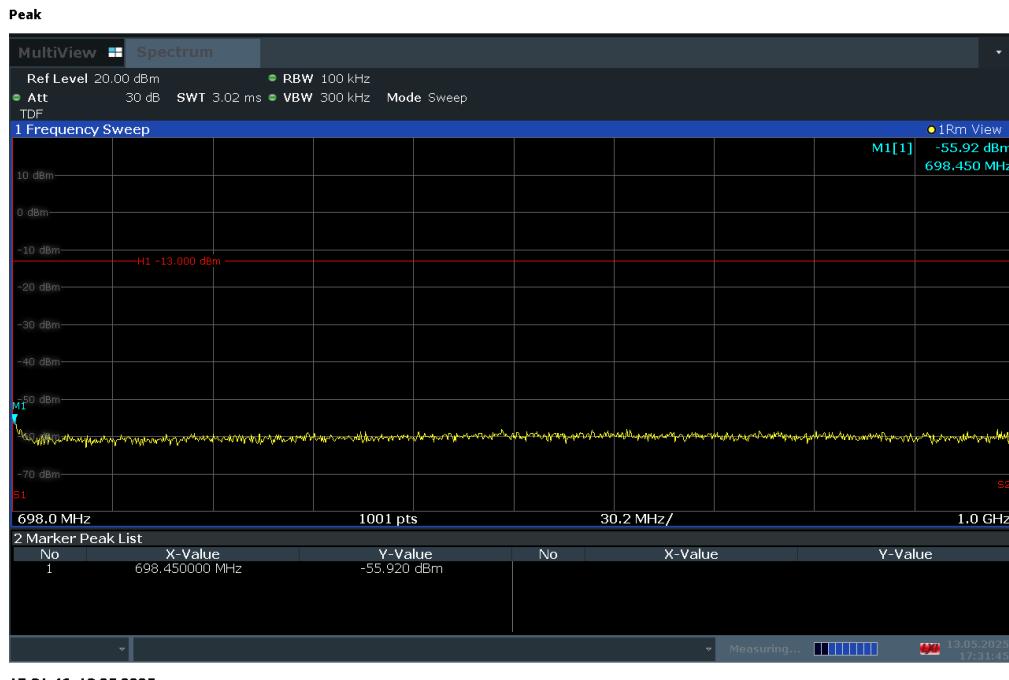


**Plot 7-88. Conducted Spurious Plot (LTE Band 71 - 20MHz QPSK - RB Size 1, RB Offset 50 - Low Channel)**

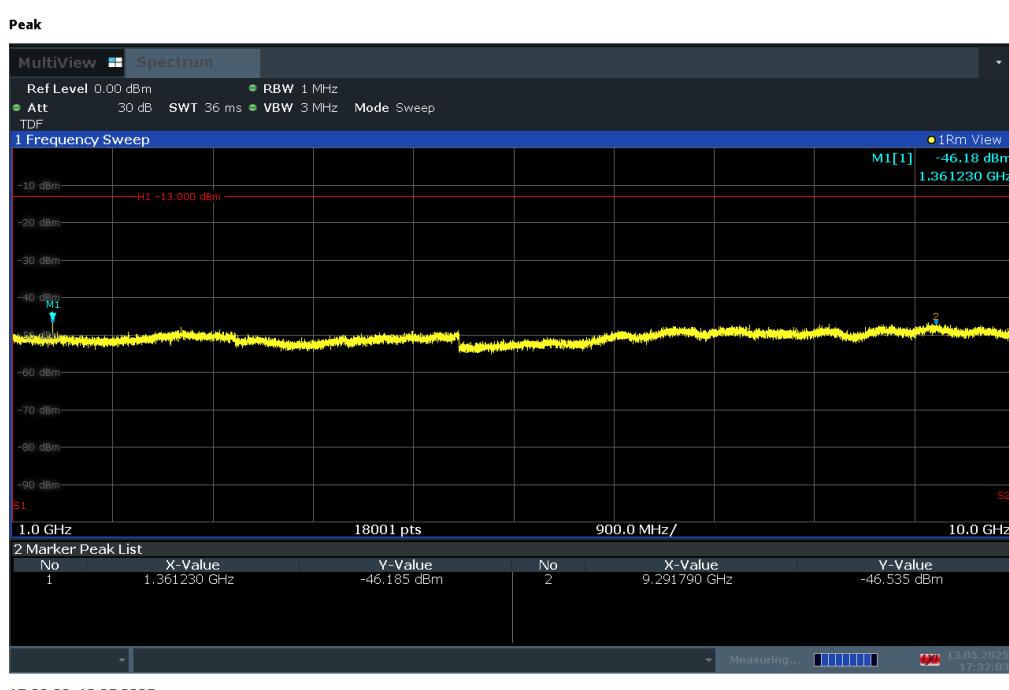


**Plot 7-89. Conducted Spurious Plot (LTE Band 71 - 20MHz QPSK - RB Size 1, RB Offset 50 - Mid Channel)**

FCC ID: BCG-A3328	element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270037-03.BCG	Test Dates: 12/20/2024 - 7/19/2025	EUT Type: Watch		Page 63 of 202

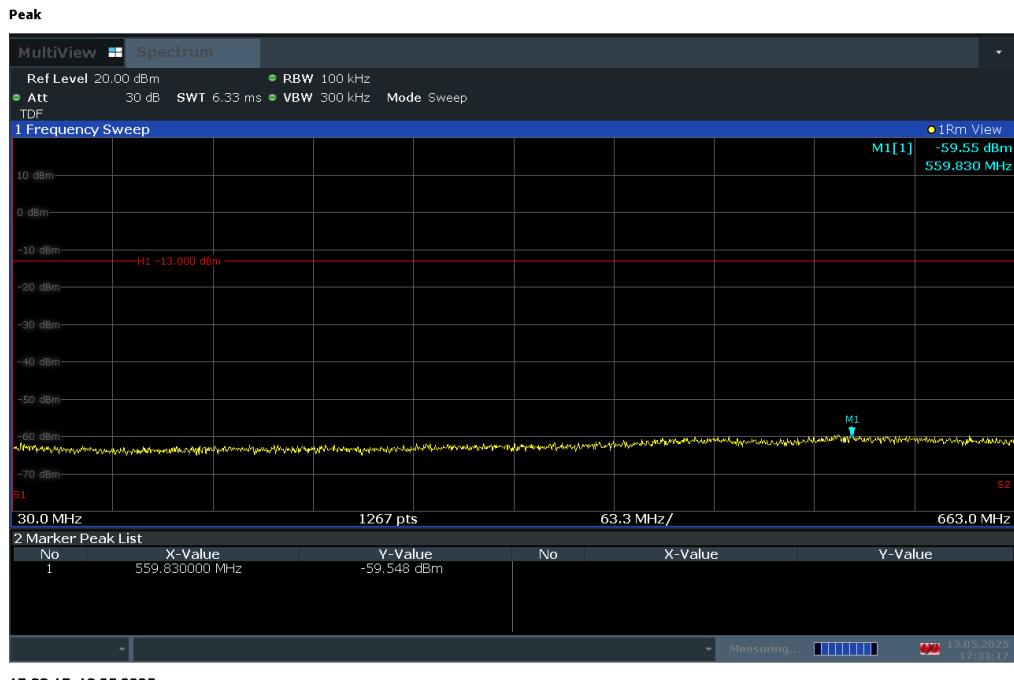


**Plot 7-90. Conducted Spurious Plot (LTE Band 71 - 20MHz QPSK - RB Size 1, RB Offset 50 - Mid Channel)**

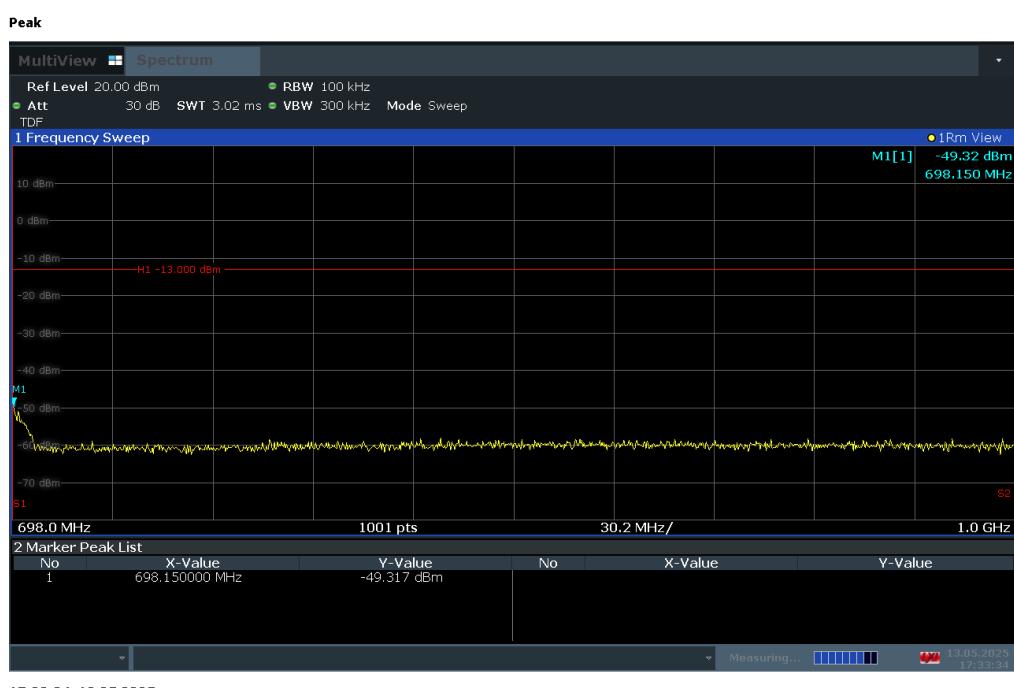


**Plot 7-91. Conducted Spurious Plot (LTE Band 71 - 20MHz QPSK - RB Size 1, RB Offset 50 - Mid Channel)**

FCC ID: BCG-A3328	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270037-03.BCG	Test Dates: 12/20/2024 - 7/19/2025	EUT Type: Watch	Page 64 of 202	

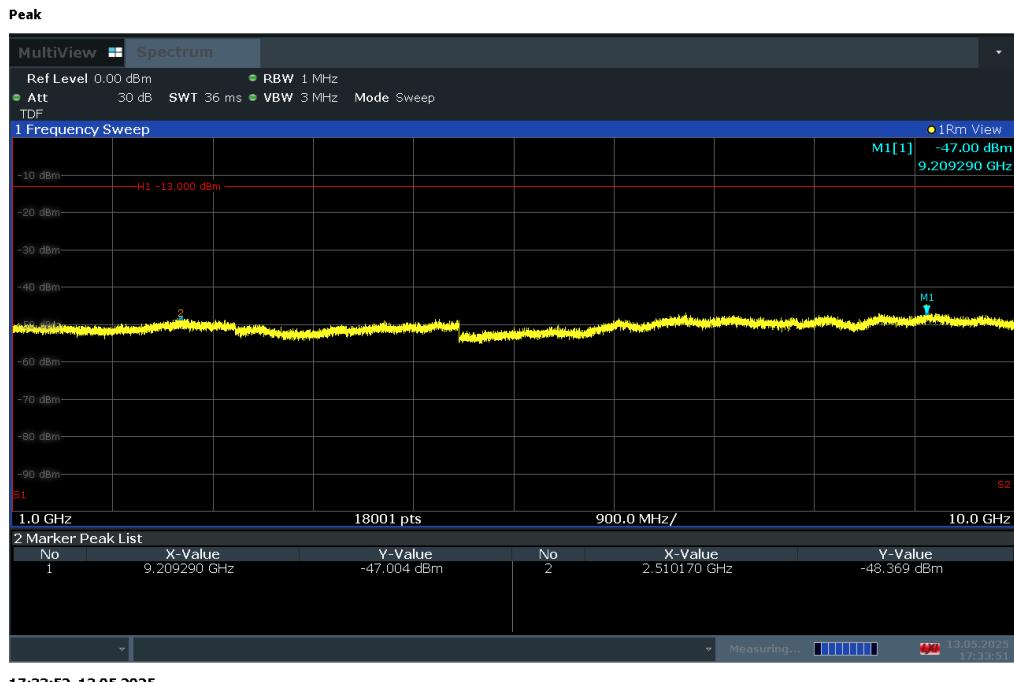


**Plot 7-92. Conducted Spurious Plot (LTE Band 71 - 20MHz QPSK - RB Size 1, RB Offset 50 - High Channel)**



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

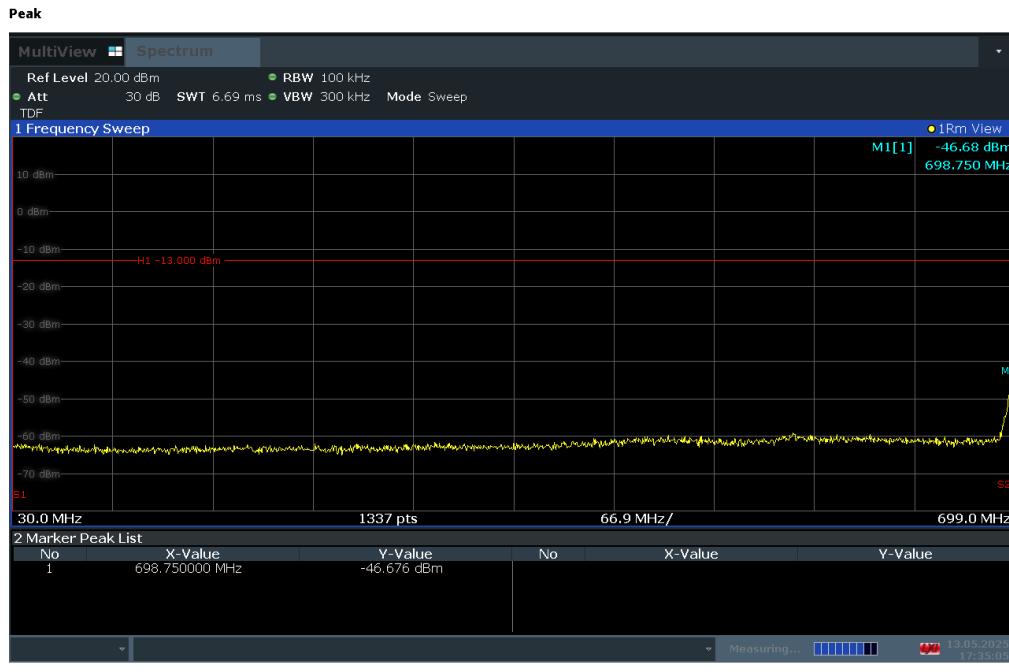
FCC ID: BCG-A3328	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270037-03.BCG	Test Dates: 12/20/2024 - 7/19/2025	EUT Type: Watch	Page 65 of 202	



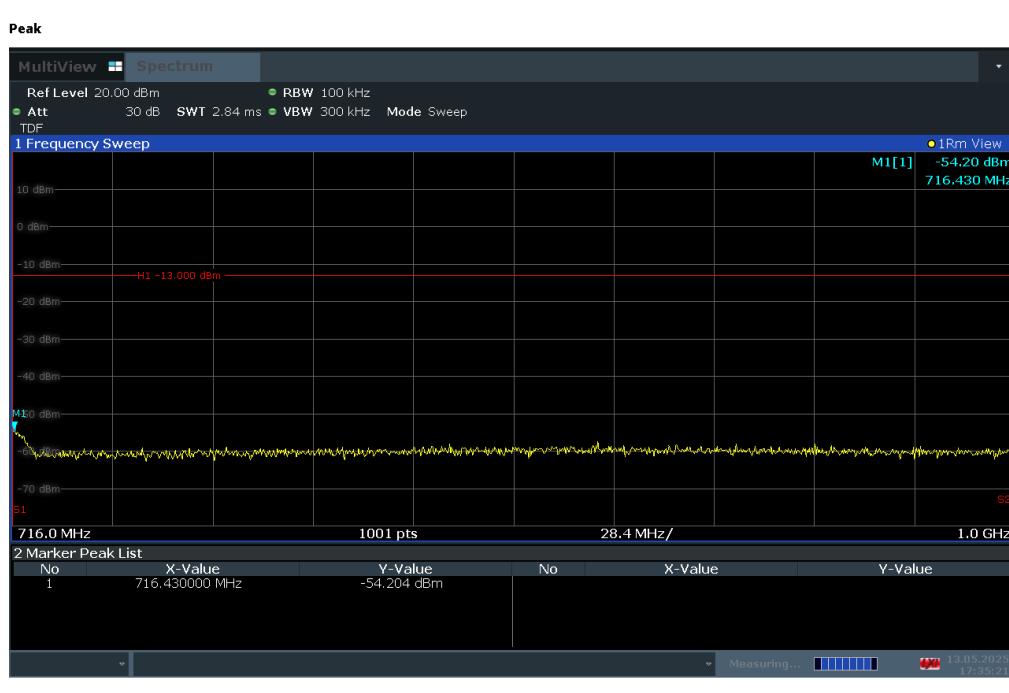
**Plot 7-94. Conducted Spurious Plot (LTE Band 71 - 20MHz QPSK - RB Size 1, RB Offset 50 - High Channel)**

FCC ID: BCG-A3328	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270037-03.BCG	Test Dates: 12/20/2024 - 7/19/2025	EUT Type: Watch		Page 66 of 202

## LTE Band 12/17

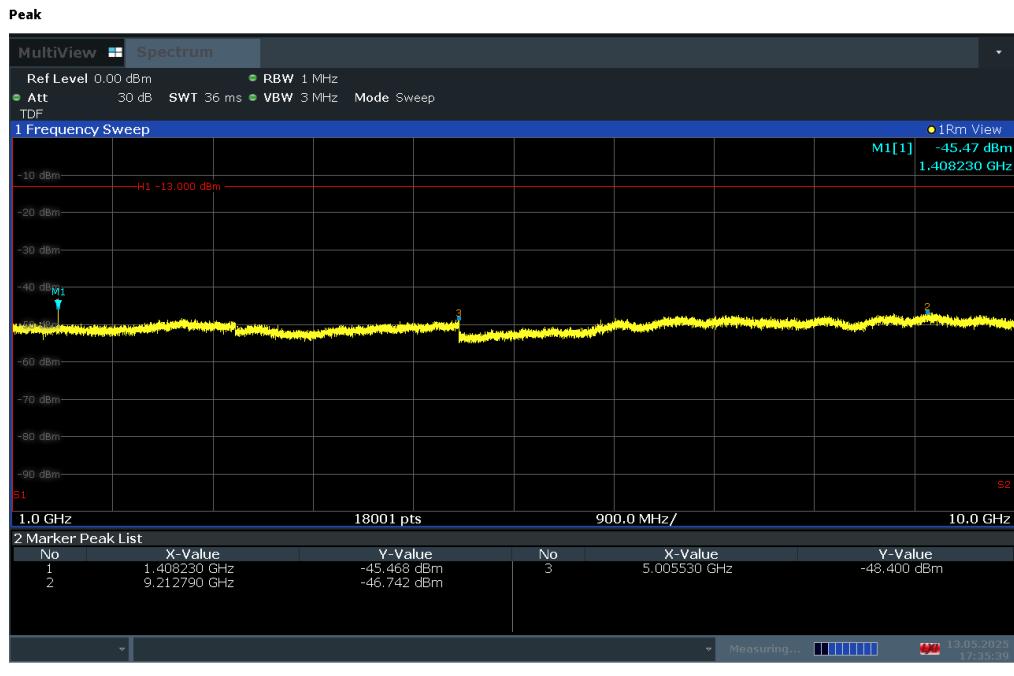


**Plot 7-95. Conducted Spurious Plot (LTE Band 12/17 - 10MHz QPSK - RB Size 1, RB Offset 25 - Low Channel)**

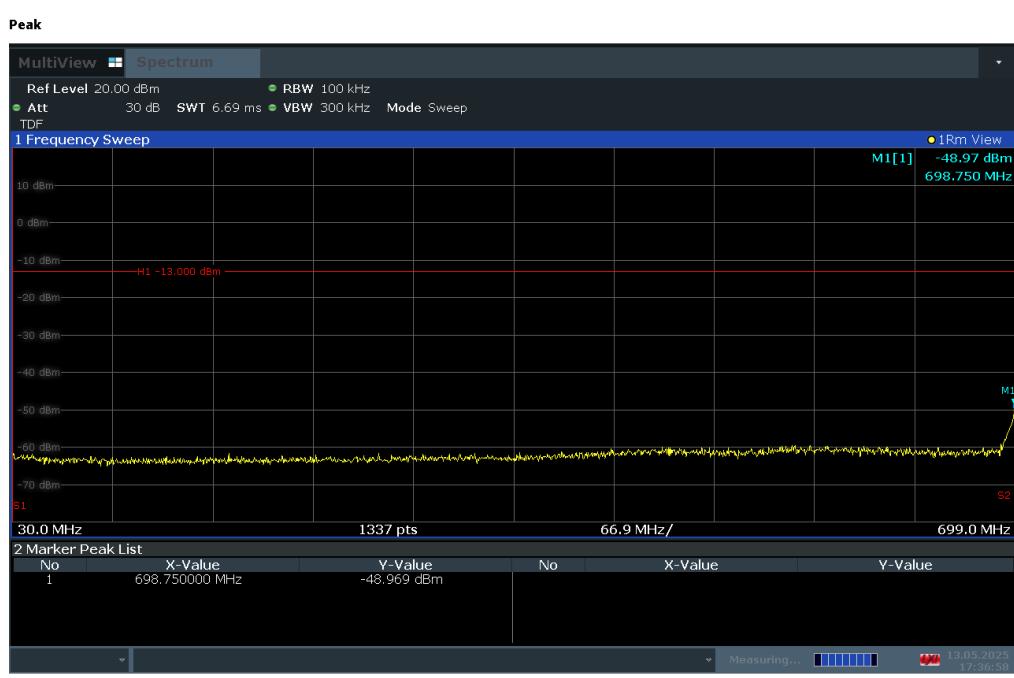


**Plot 7-96. Conducted Spurious Plot (LTE Band 12/17 - 10MHz QPSK - RB Size 1, RB Offset 25 - Low Channel)**

FCC ID: BCG-A3328	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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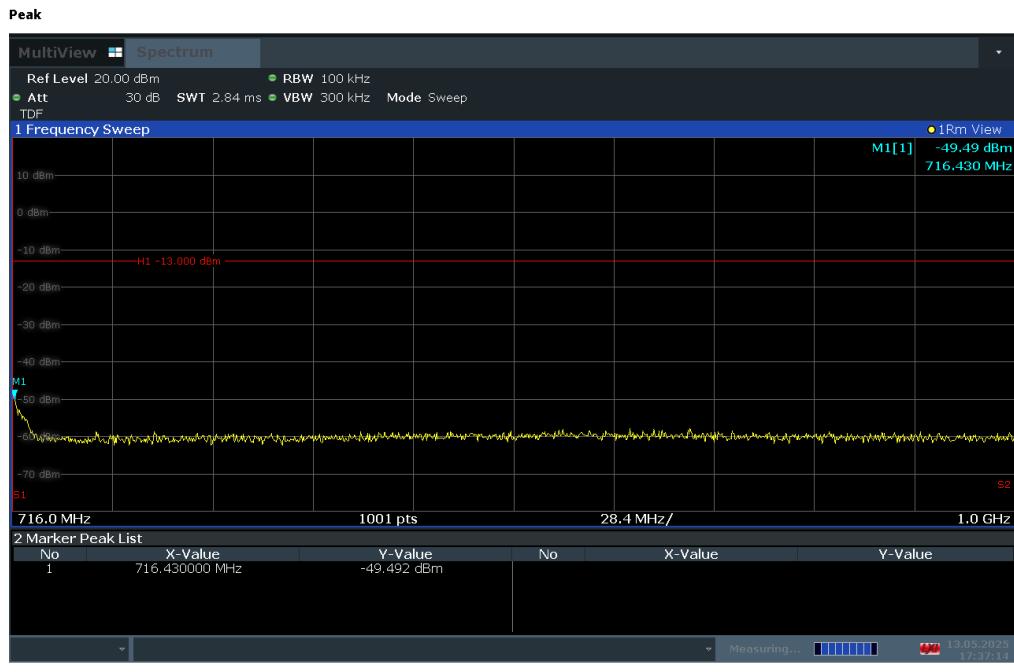


**Plot 7-97. Conducted Spurious Plot (LTE Band 12/17 - 10MHz QPSK - RB Size 1, RB Offset 25 - Low Channel)**

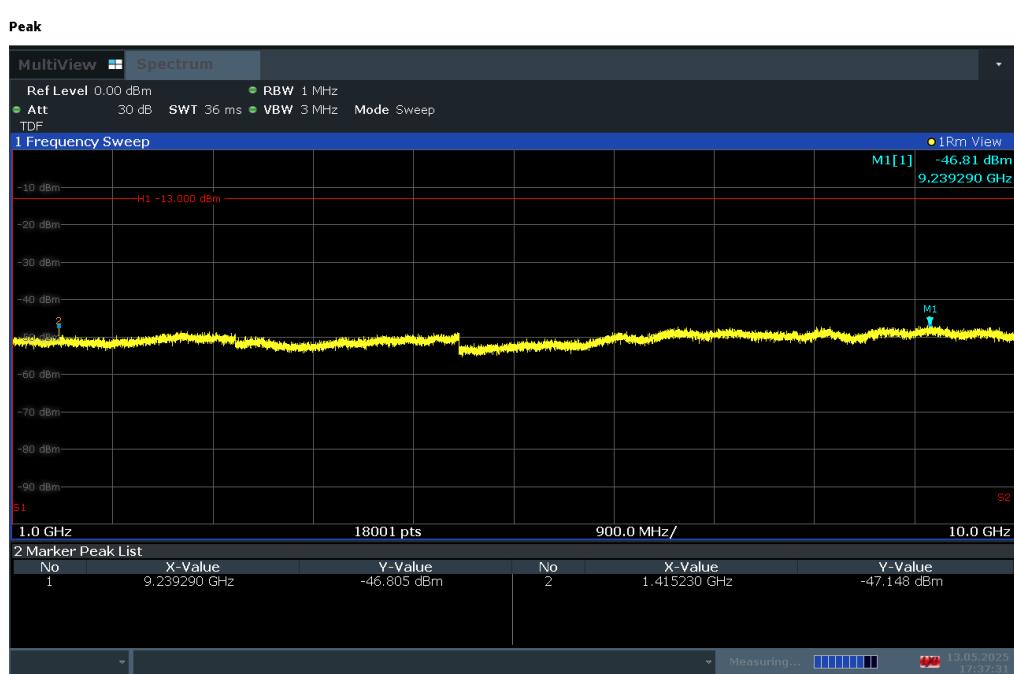


**Plot 7-98. Conducted Spurious Plot (LTE Band 12/17 - 10MHz QPSK - RB Size 1, RB Offset 25 - Mid Channel)**

FCC ID: BCG-A3328	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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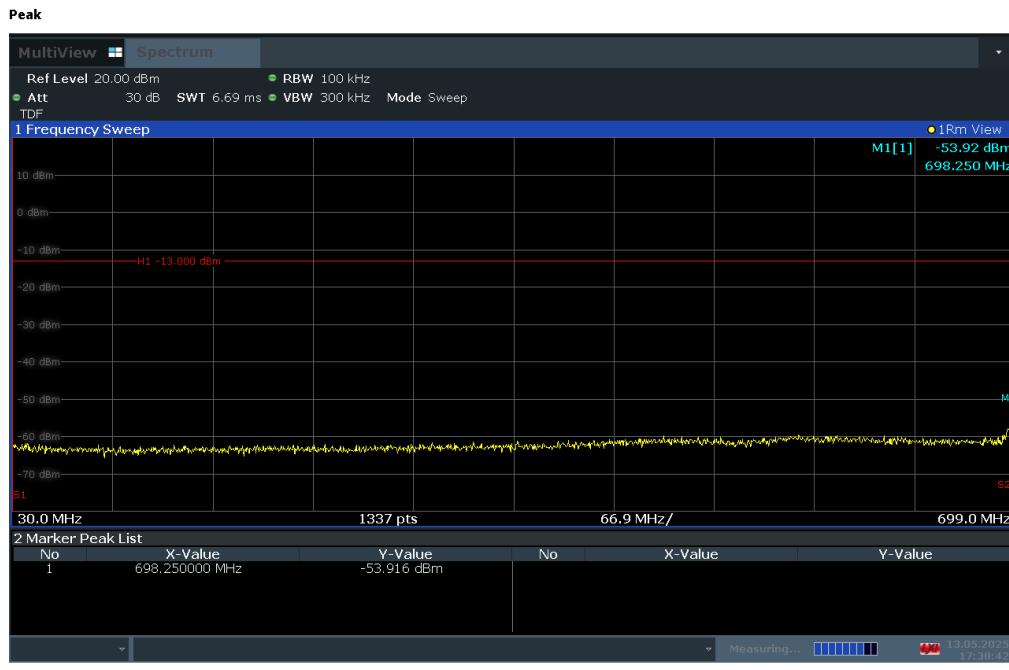


**Plot 7-99. Conducted Spurious Plot (LTE Band 12/17 - 10MHz QPSK - RB Size 1, RB Offset 25 - Mid Channel)**

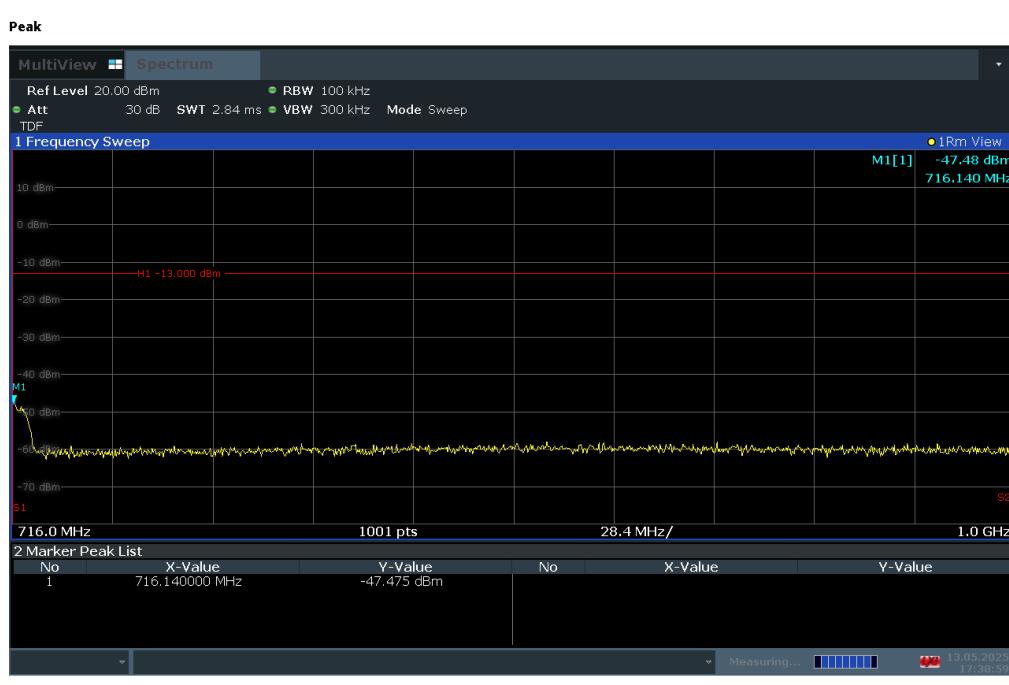


**Plot 7-100. Conducted Spurious Plot (LTE Band 12/17 - 10MHz QPSK - RB Size 1, RB Offset 25 - Mid Channel)**

FCC ID: BCG-A3328	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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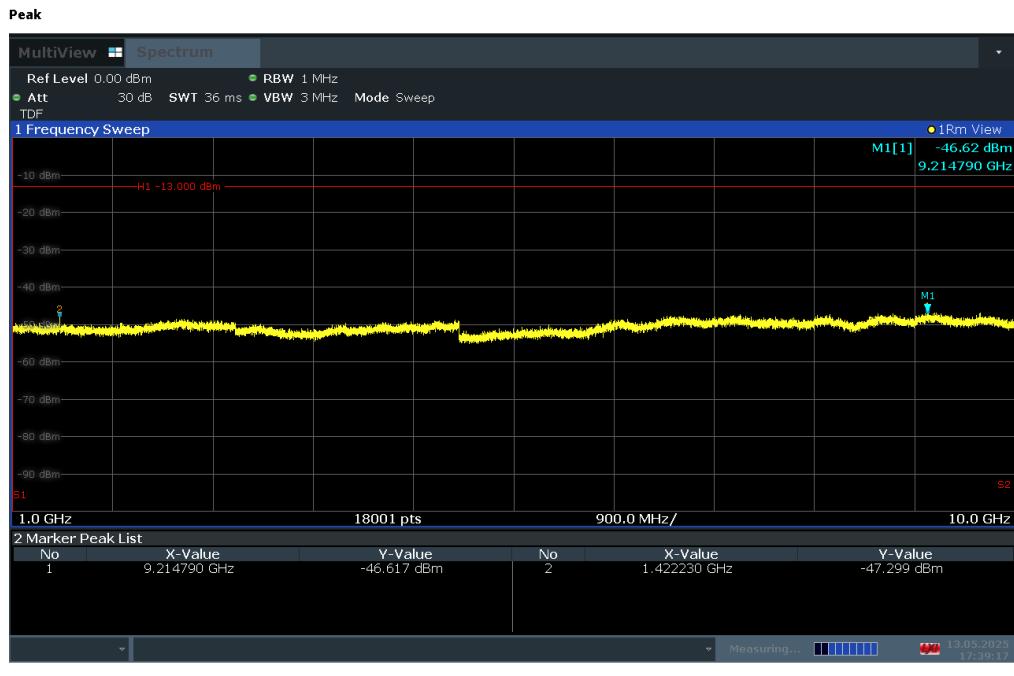


**Plot 7-101. Conducted Spurious Plot (LTE Band 12/17 - 10MHz QPSK - RB Size 1, RB Offset 25 - High Channel)**



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

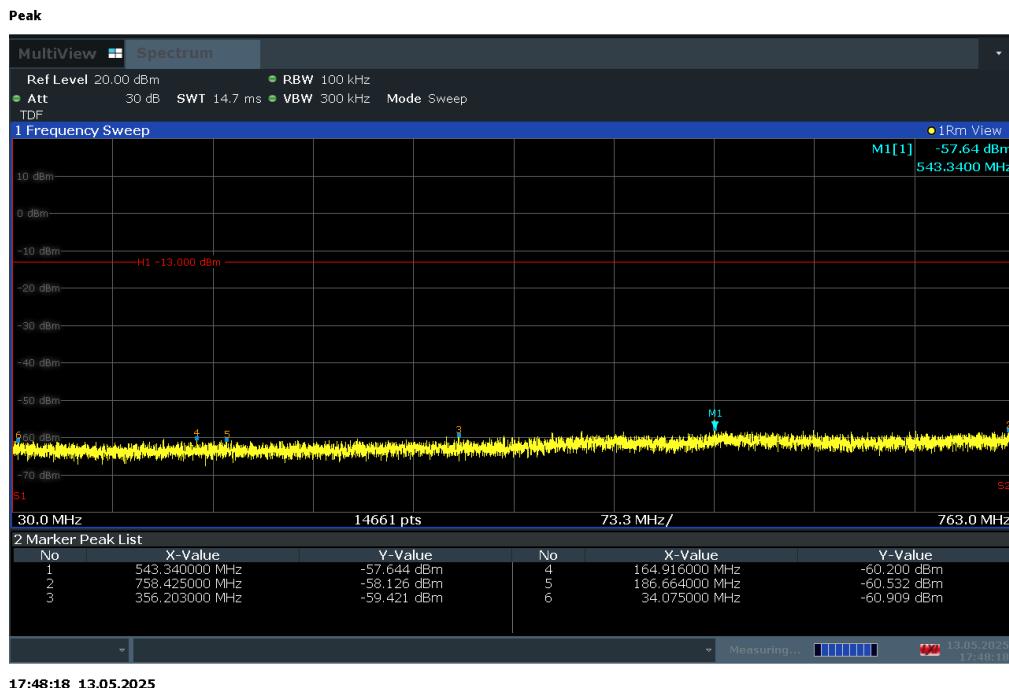
FCC ID: BCG-A3328	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270037-03.BCG	Test Dates: 12/20/2024 - 7/19/2025	EUT Type: Watch		Page 70 of 202



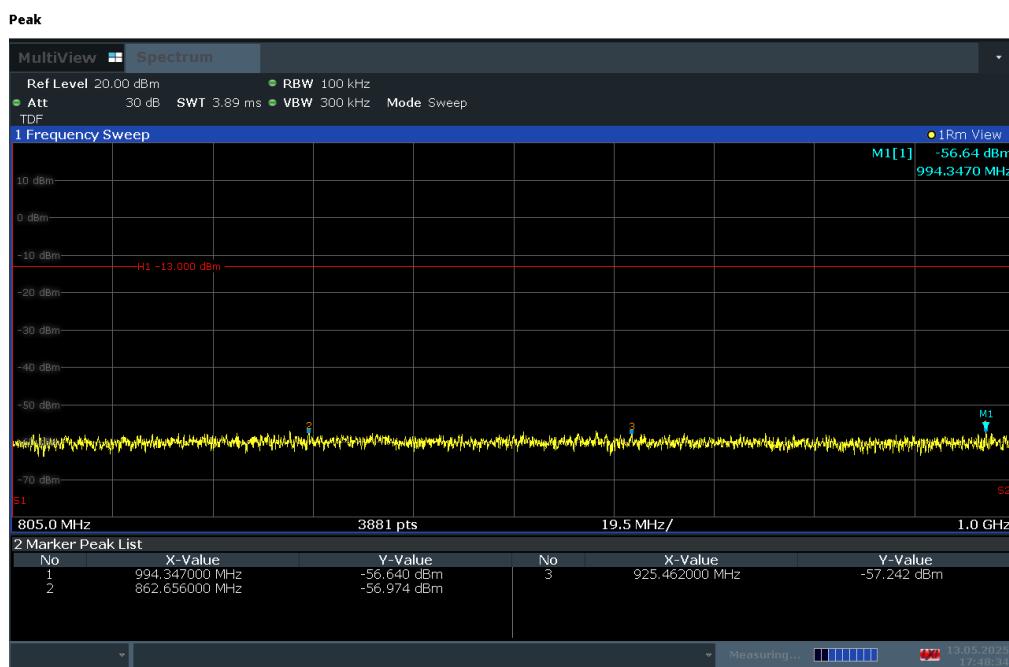
**Plot 7-103. Conducted Spurious Plot (LTE Band 12/17 - 10MHz QPSK - RB Size 1, RB Offset 25 - High Channel)**

FCC ID: BCG-A3328	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270037-03.BCG	Test Dates: 12/20/2024 - 7/19/2025	EUT Type: Watch		Page 71 of 202

## LTE Band 13

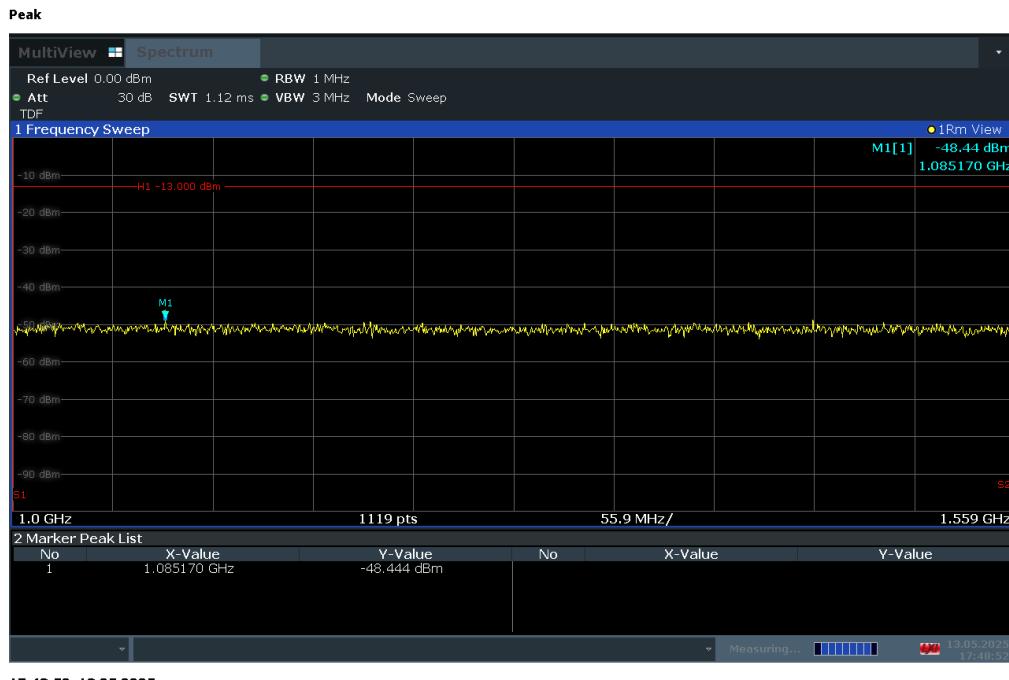


**Plot 7-104. Conducted Spurious Plot (LTE Band 13 - 10MHz QPSK - RB Size 1, RB Offset 25)**

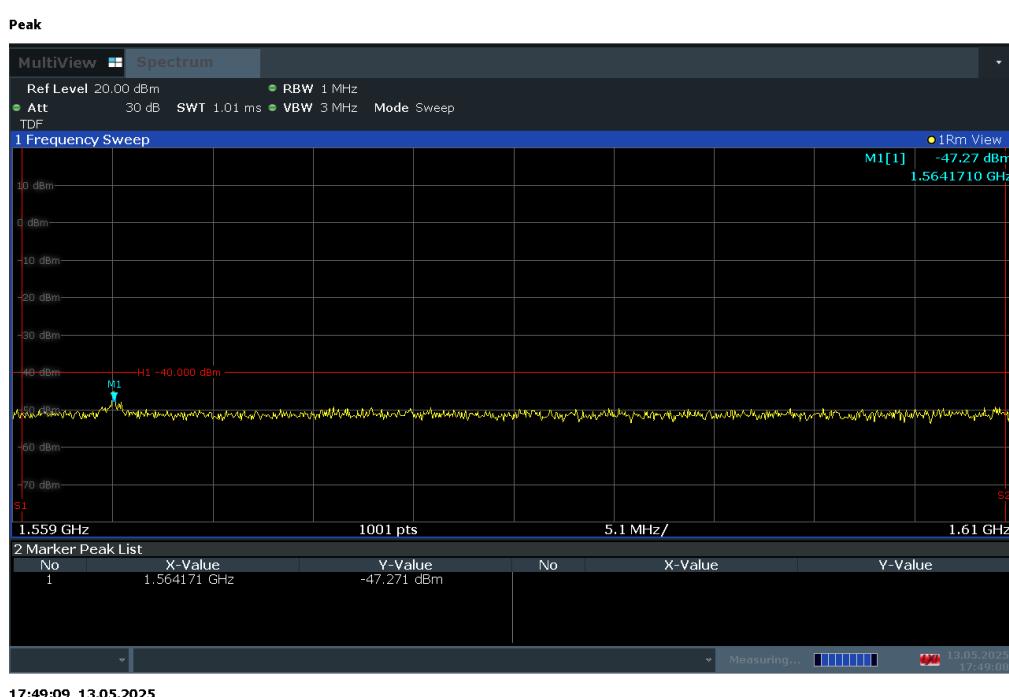


**Plot 7-105. Conducted Spurious Plot (LTE Band 13 - 10MHz QPSK - RB Size 1, RB Offset 25)**

FCC ID: BCG-A3328	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270037-03.BCG	Test Dates: 12/20/2024 - 7/19/2025	EUT Type: Watch	Page 72 of 202	

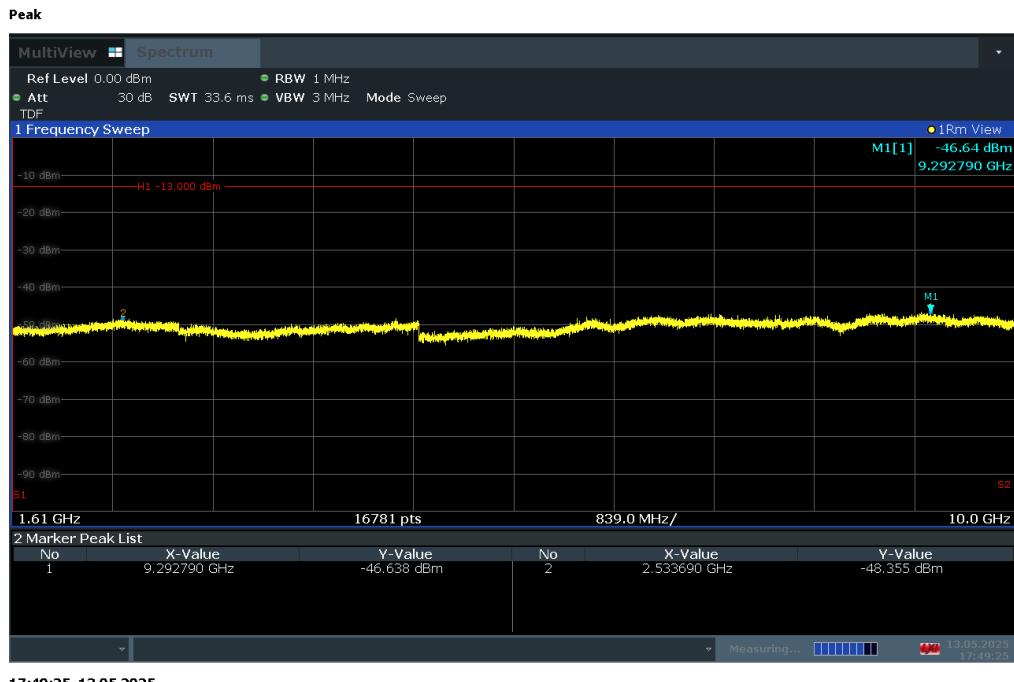


**Plot 7-106. Conducted Spurious Plot (LTE Band 13 - 10MHz QPSK - RB Size 1, RB Offset 25)**



**Plot 7-107. Conducted Spurious Plot (LTE Band 13 - 10MHz QPSK - RB Size 1, RB Offset 25)**

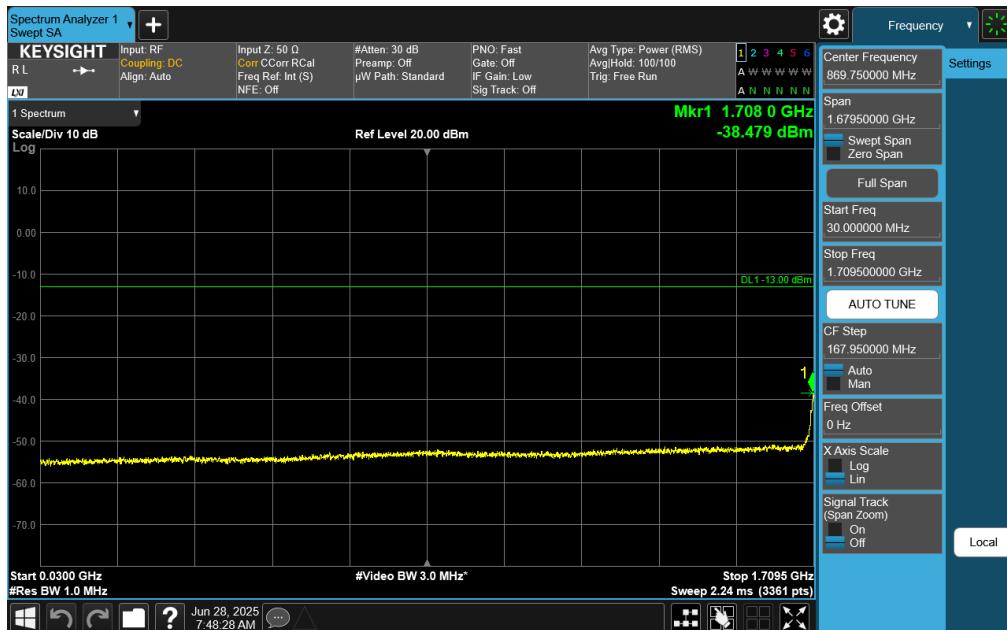
FCC ID: BCG-A3328	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270037-03.BCG	Test Dates: 12/20/2024 - 7/19/2025	EUT Type: Watch	Page 73 of 202	



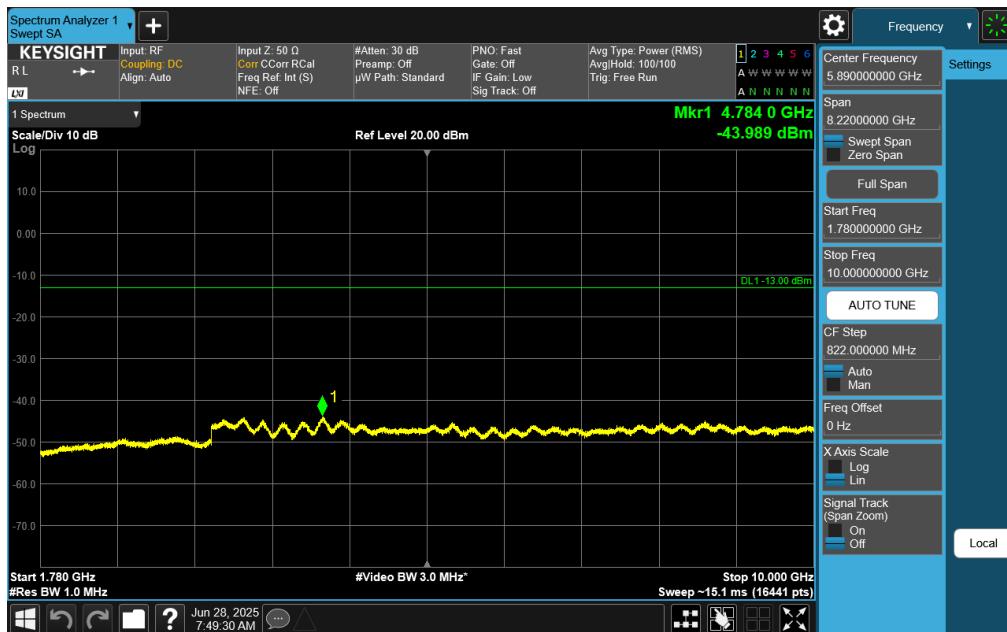
**Plot 7-108. Conducted Spurious Plot (LTE Band 13 - 10MHz QPSK - RB Size 1, RB Offset 25)**

FCC ID: BCG-A3328	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270037-03.BCG	Test Dates: 12/20/2024 - 7/19/2025	EUT Type: Watch		Page 74 of 202

## NR Band n66

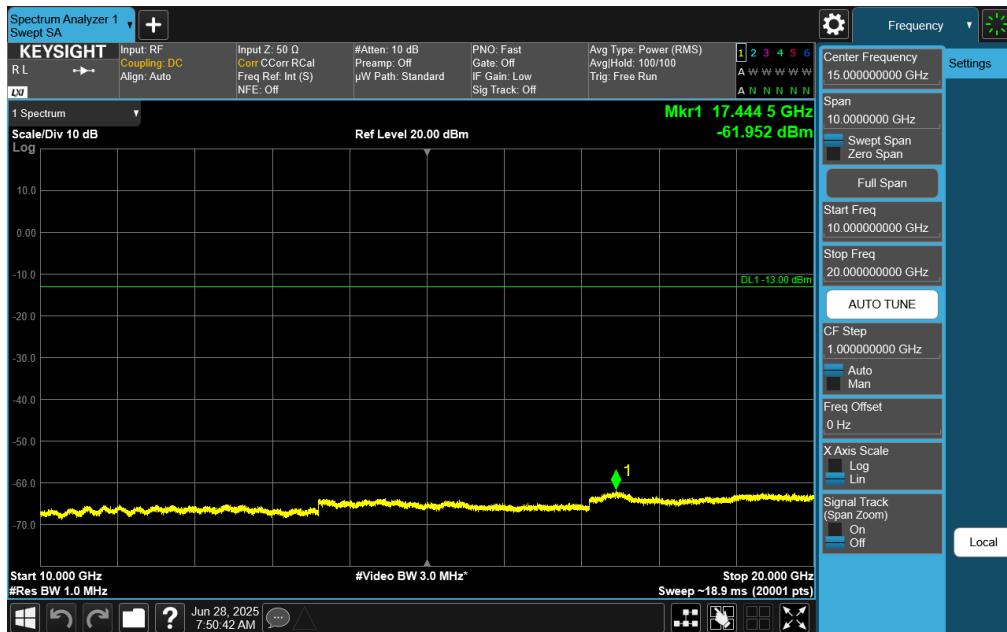


Plot 7-109. Conducted Spurious Plot (NR Band n66 - 20.0MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 50 - Low Channel)

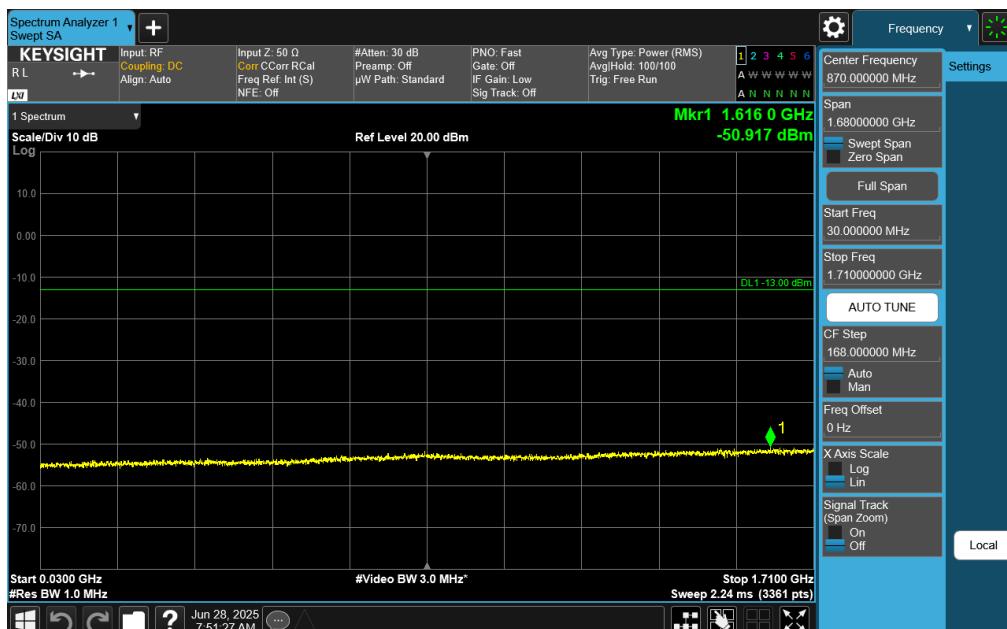


Plot 7-110. Conducted Spurious Plot (NR Band n66 - 20.0MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 50 - Low Channel)

FCC ID: BCG-A3328	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270037-03.BCG	Test Dates: 12/20/2024 - 7/19/2025	EUT Type: Watch	Page 75 of 202	

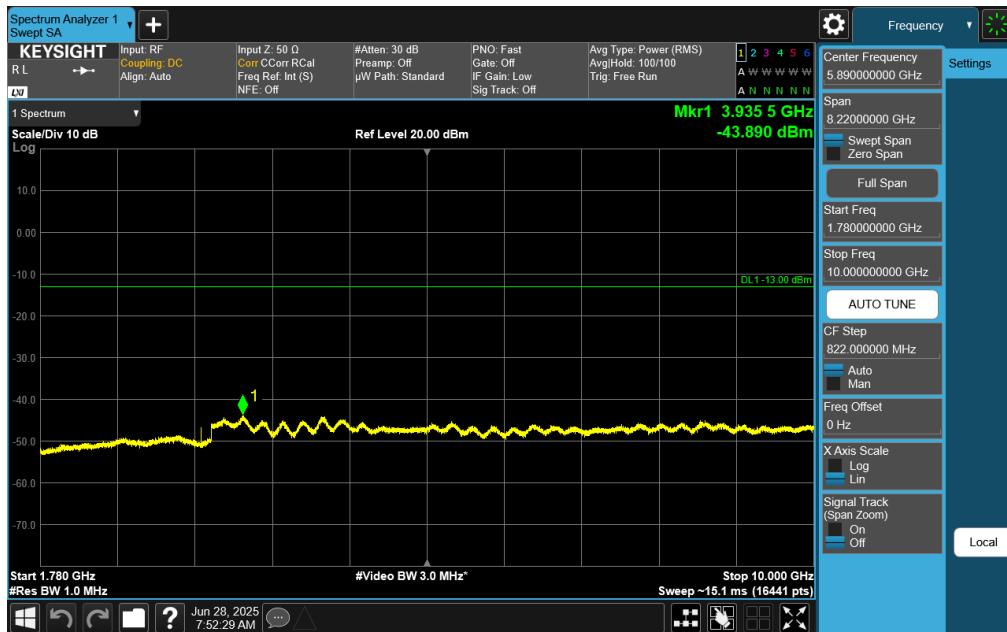


Plot 7-111. Conducted Spurious Plot (NR Band n66 - 20.0MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 50 - Low Channel)



Plot 7-112. Conducted Spurious Plot (NR Band n66 - 20.0MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 50 - Mid Channel)

FCC ID: BCG-A3328	element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270037-03.BCG	Test Dates: 12/20/2024 - 7/19/2025	EUT Type: Watch		Page 76 of 202

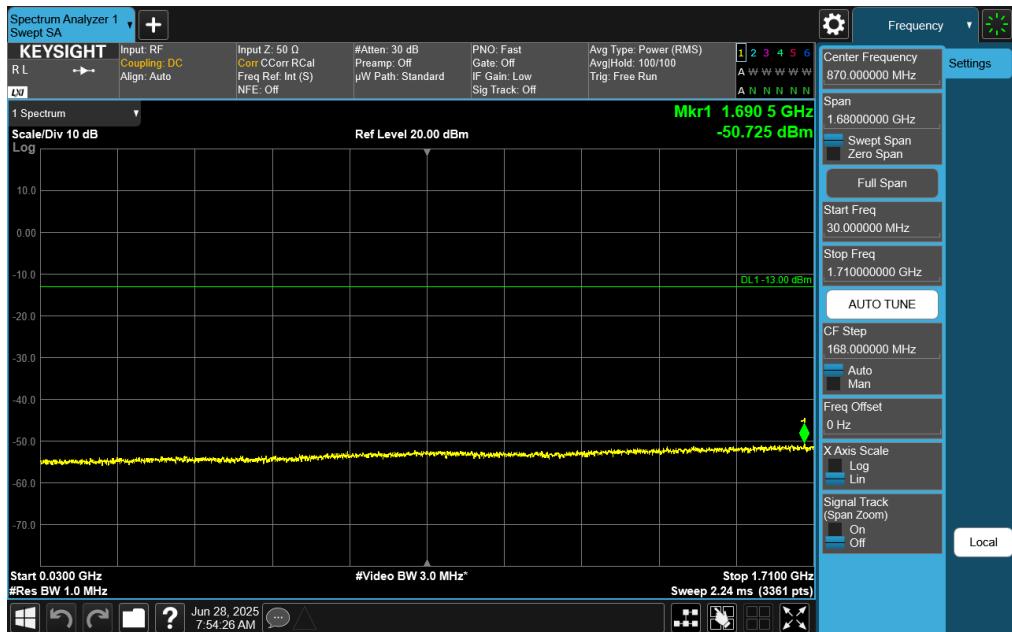


Plot 7-113. Conducted Spurious Plot (NR Band n66 - 20.0MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 50 - Mid Channel)

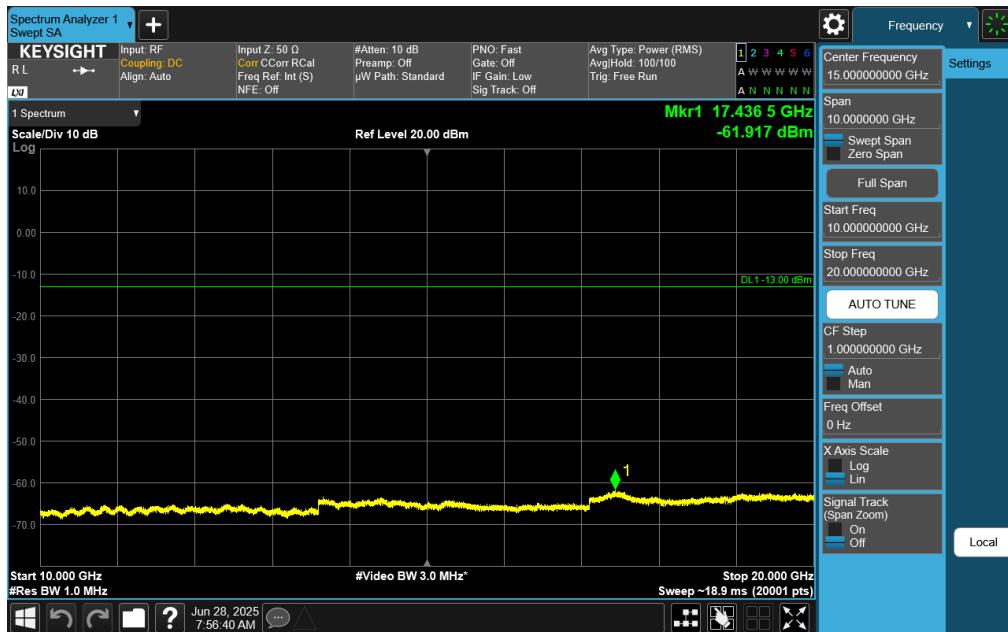


Plot 7-114. Conducted Spurious Plot (NR Band n66 - 20.0MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 50 - Mid Channel)

FCC ID: BCG-A3328	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270037-03.BCG	Test Dates: 12/20/2024 - 7/19/2025	EUT Type: Watch		Page 77 of 202



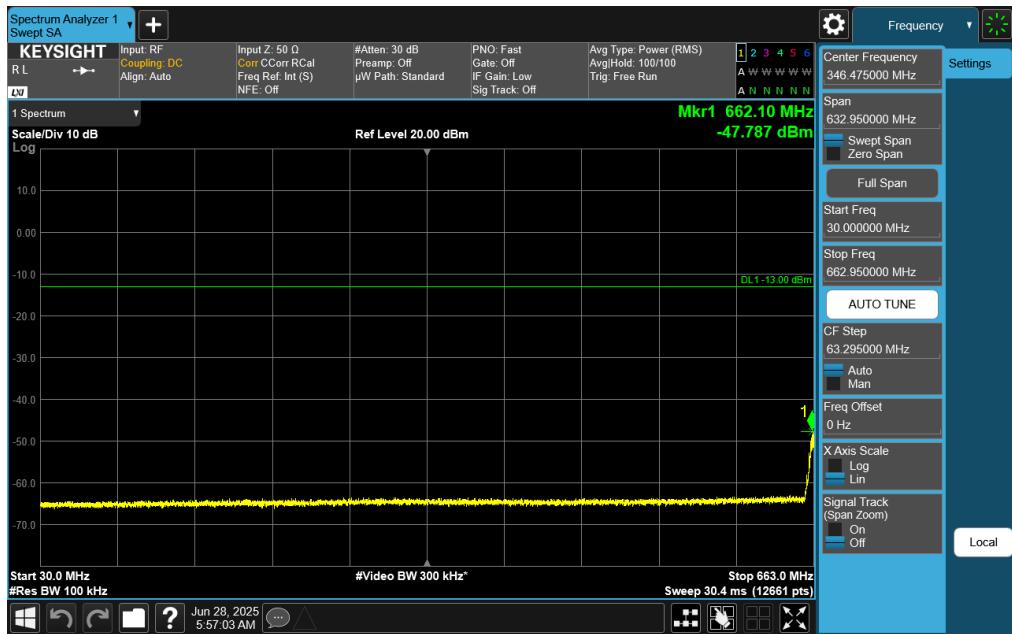
FCC ID: BCG-A3328	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270037-03.BCG	Test Dates: 12/20/2024 - 7/19/2025	EUT Type: Watch	Page 78 of 202



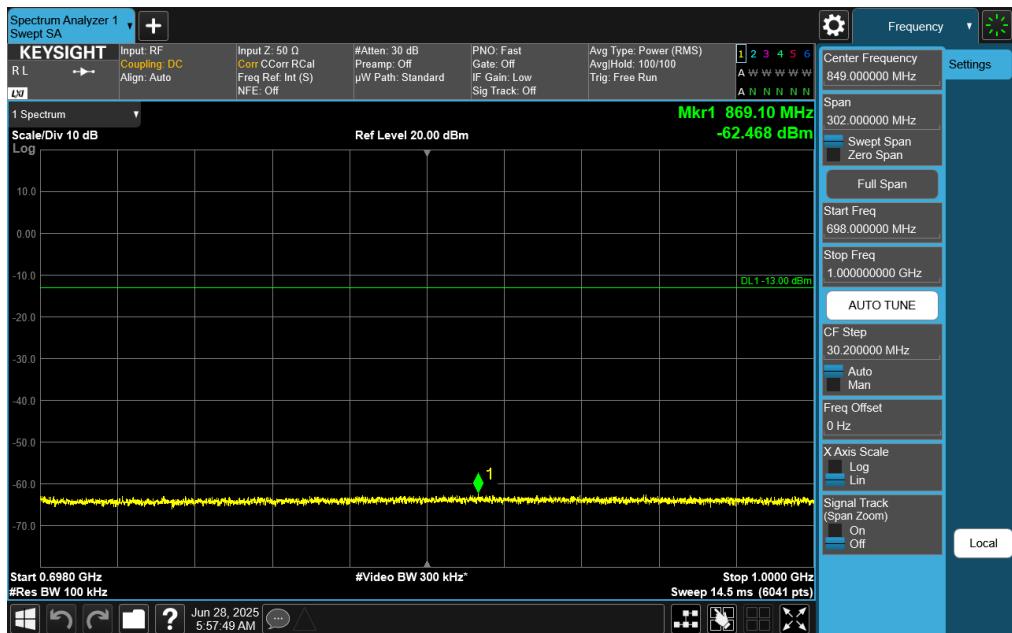
Plot 7-117. Conducted Spurious Plot (NR Band n66 - 20.0MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 50 - High Channel)

FCC ID: BCG-A3328	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270037-03.BCG	Test Dates: 12/20/2024 - 7/19/2025	EUT Type: Watch	Page 79 of 202

## NR Band n71

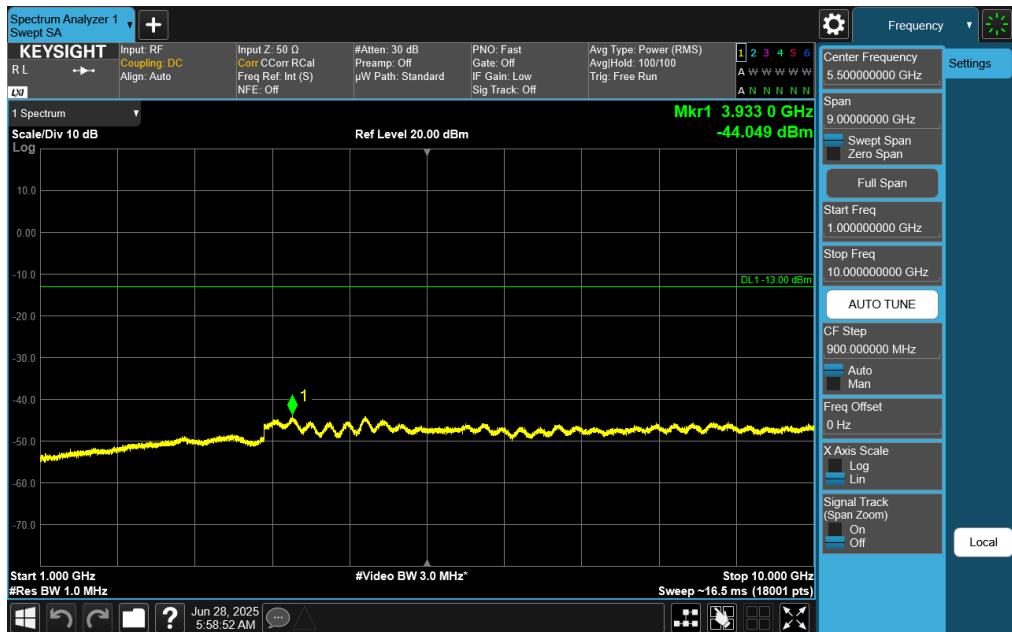


Plot 7-118. Conducted Spurious Plot (NR Band n71 -20.0MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 50 - Low Channel)

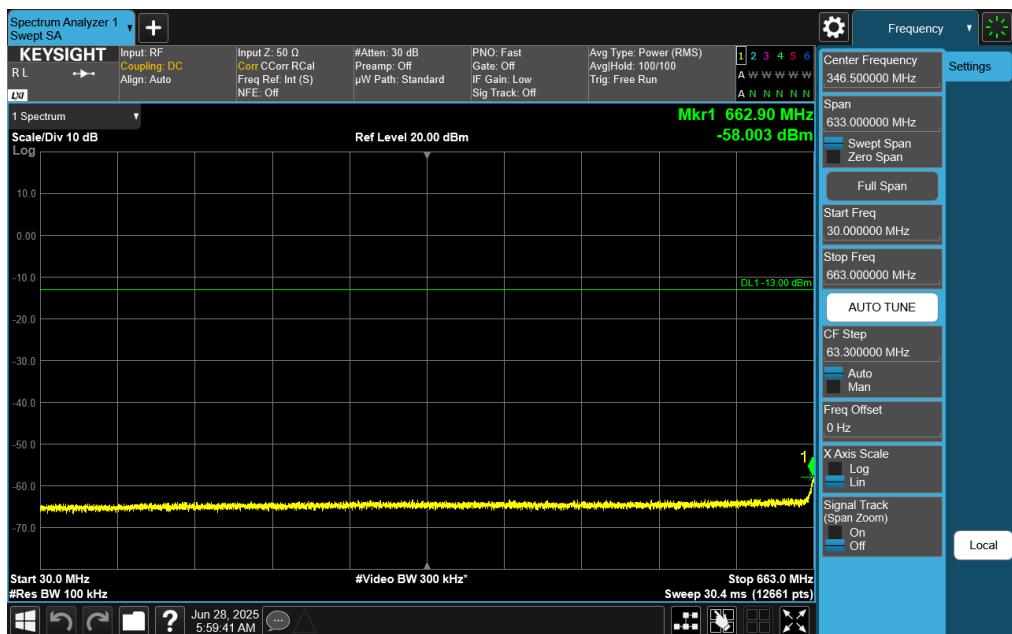


Plot 7-119. Conducted Spurious Plot (NR Band n71 - 20.0MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 50 - Low Channel)

FCC ID: BCG-A3328	element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270037-03.BCG	Test Dates: 12/20/2024 - 7/19/2025	EUT Type: Watch		Page 80 of 202

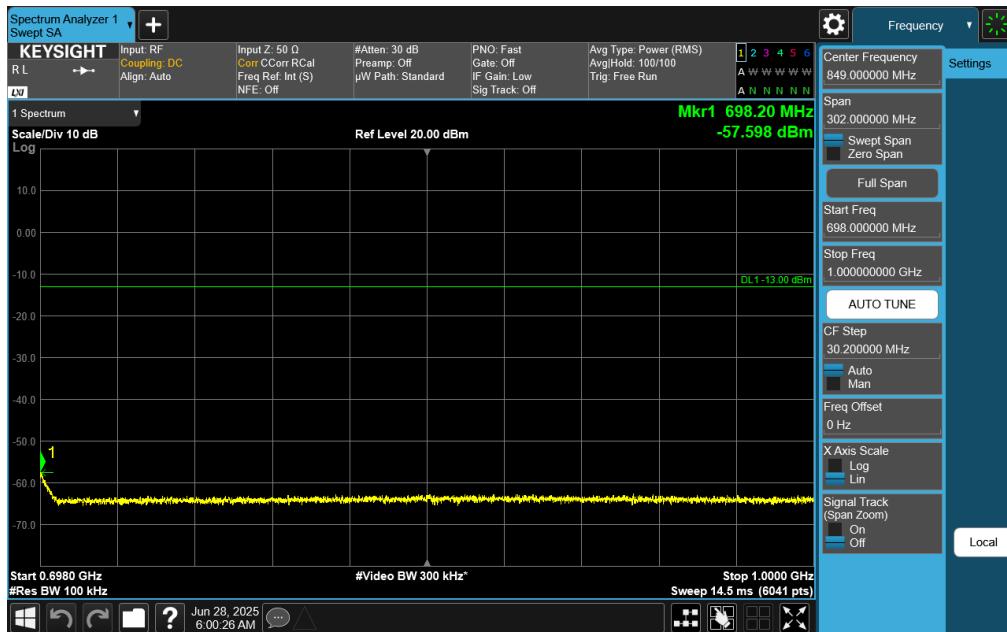


Plot 7-120. Conducted Spurious Plot (NR Band n71 - 20.0MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 50 - Low Channel)

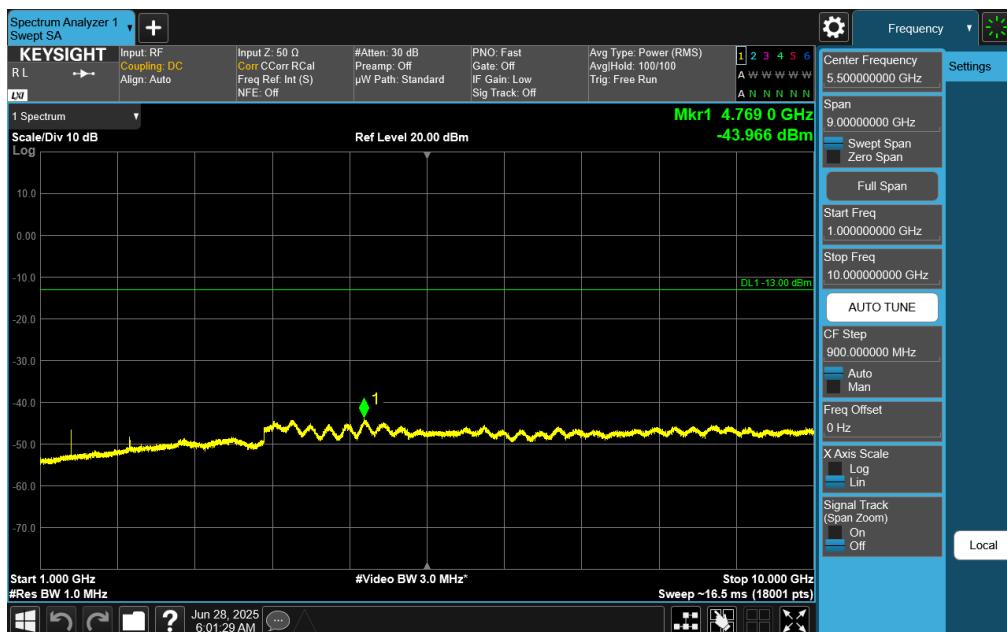


Plot 7-121. Conducted Spurious Plot (NR Band n71 - 20.0MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 50 - Mid Channel)

FCC ID: BCG-A3328	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270037-03.BCG	Test Dates: 12/20/2024 - 7/19/2025	EUT Type: Watch		Page 81 of 202

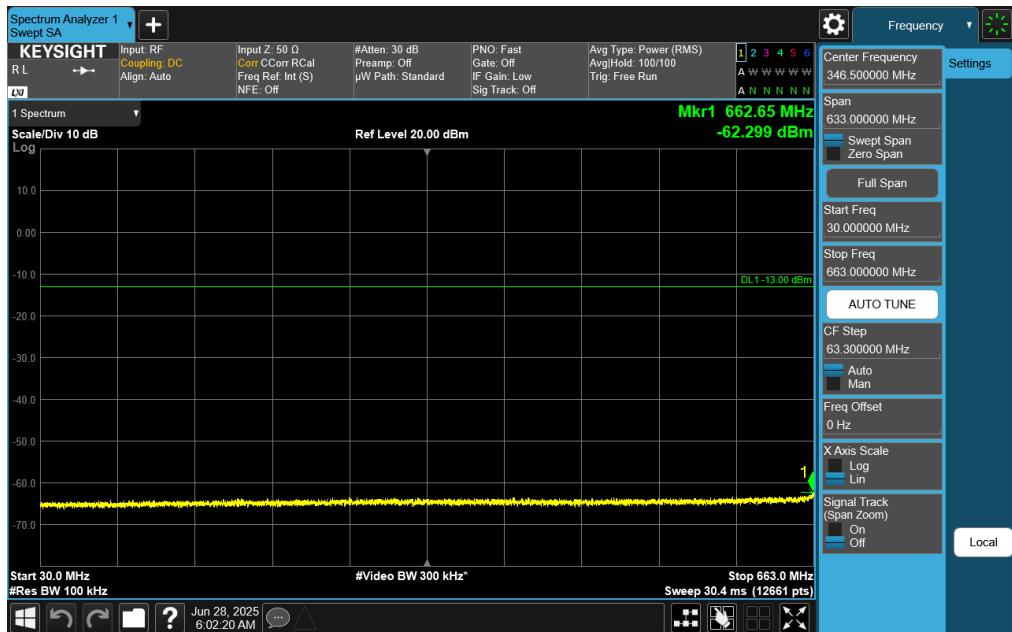


Plot 7-122. Conducted Spurious Plot (NR Band n71 - 20.0MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 50 - Mid Channel)

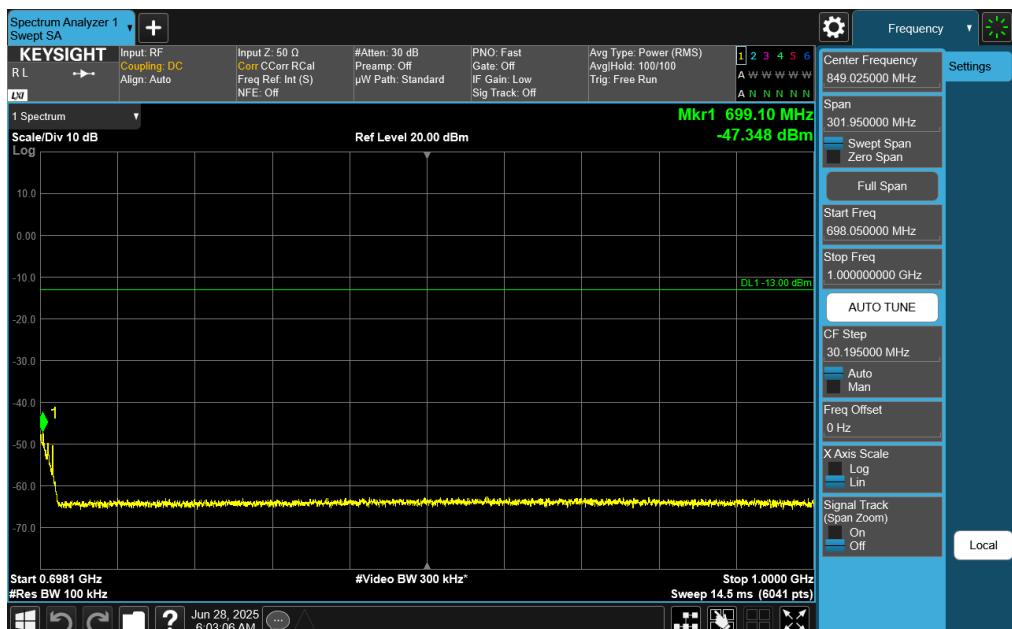


Plot 7-123. Conducted Spurious Plot (NR Band n71 - 20.0MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 50 - Mid Channel)

FCC ID: BCG-A3328	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270037-03.BCG	Test Dates: 12/20/2024 - 7/19/2025	EUT Type: Watch	Page 82 of 202

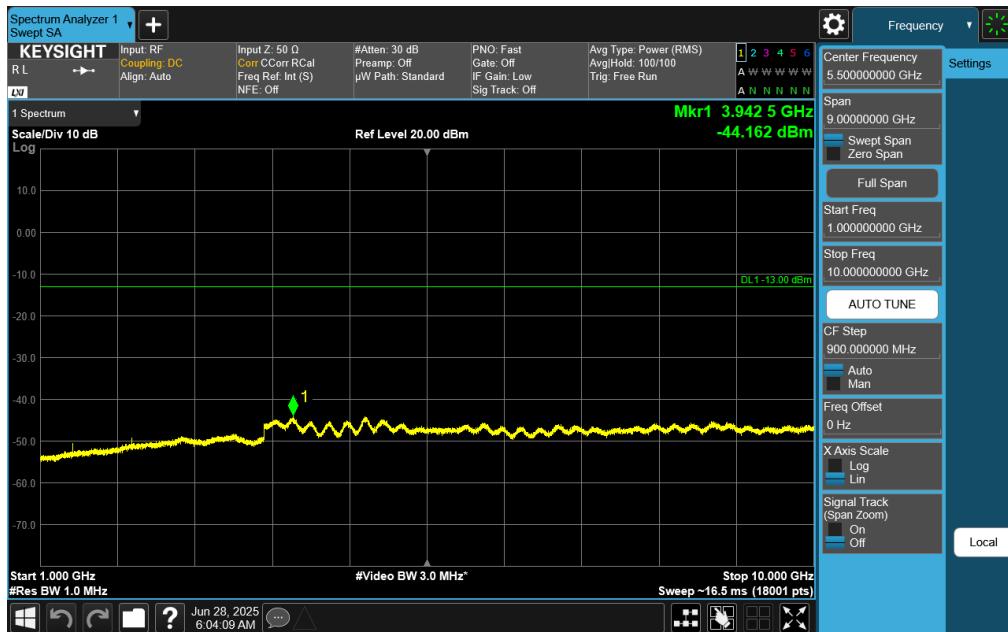


Plot 7-124. Conducted Spurious Plot (NR Band n71 - 20.0MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 50 - High Channel)



Plot 7-125. Conducted Spurious Plot (NR Band n71 - 20.0MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 3.7 - High Channel)

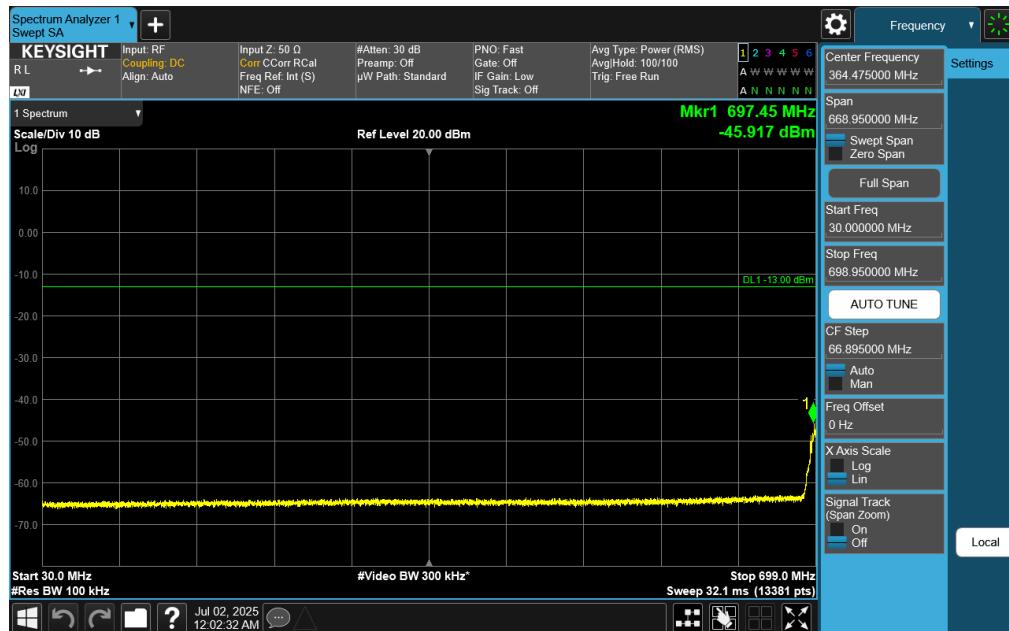
FCC ID: BCG-A3328	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270037-03.BCG	Test Dates: 12/20/2024 - 7/19/2025	EUT Type: Watch		Page 83 of 202



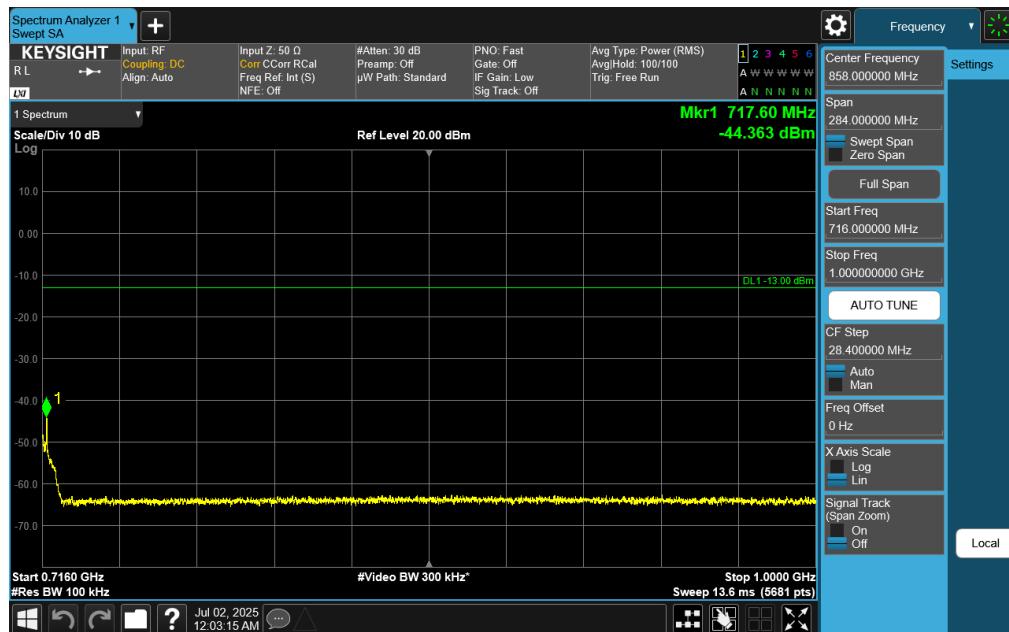
Plot 7-126. Conducted Spurious Plot (NR Band n71 - 20.0MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 50 - High Channel)

FCC ID: BCG-A3328	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270037-03.BCG	Test Dates: 12/20/2024 - 7/19/2025	EUT Type: Watch		Page 84 of 202

## NR Band n12

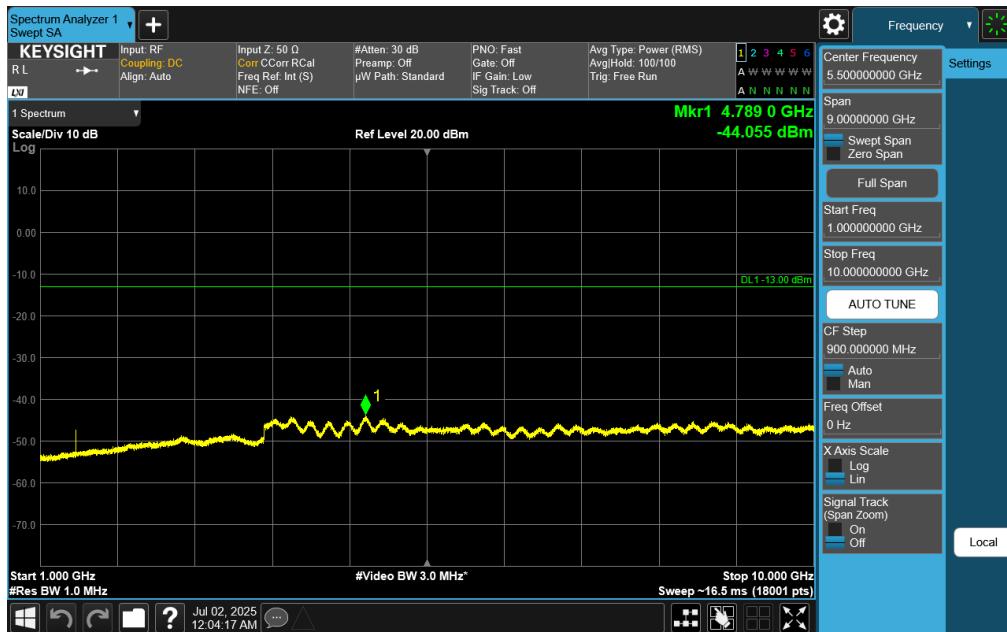


Plot 7-127. Conducted Spurious Plot (NR Band n12 -15.0MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 36 - Low Channel)

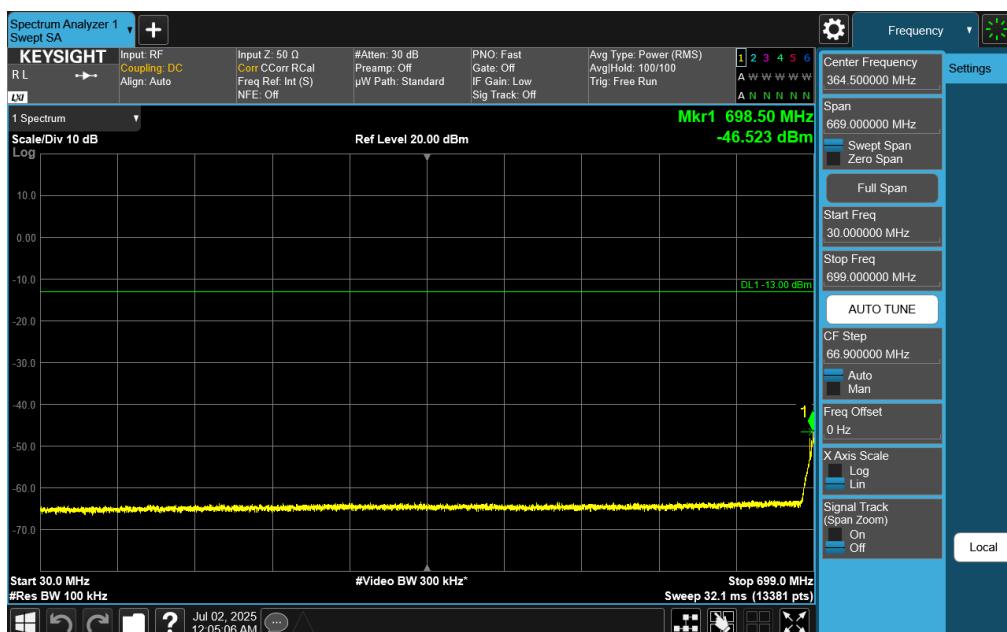


Plot 7-128. Conducted Spurious Plot (NR Band n12 - 15.0MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 36 - Low Channel)

FCC ID: BCG-A3328	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270037-03.BCG	Test Dates: 12/20/2024 - 7/19/2025	EUT Type: Watch		Page 85 of 202

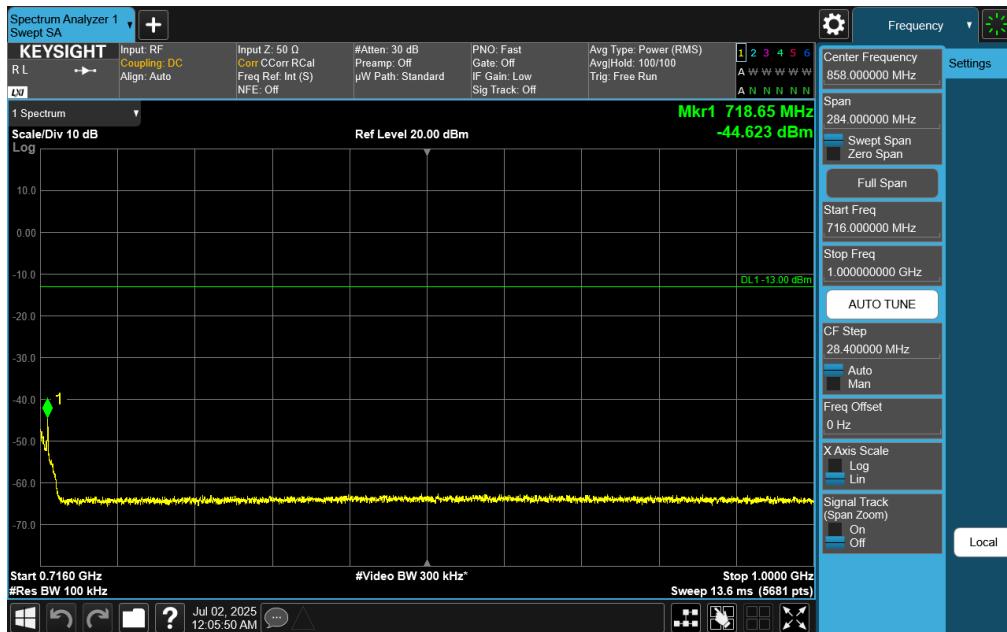


**Plot 7-129. Conducted Spurious Plot (NR Band n12 - 15.0MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 36 - Low Channel)**

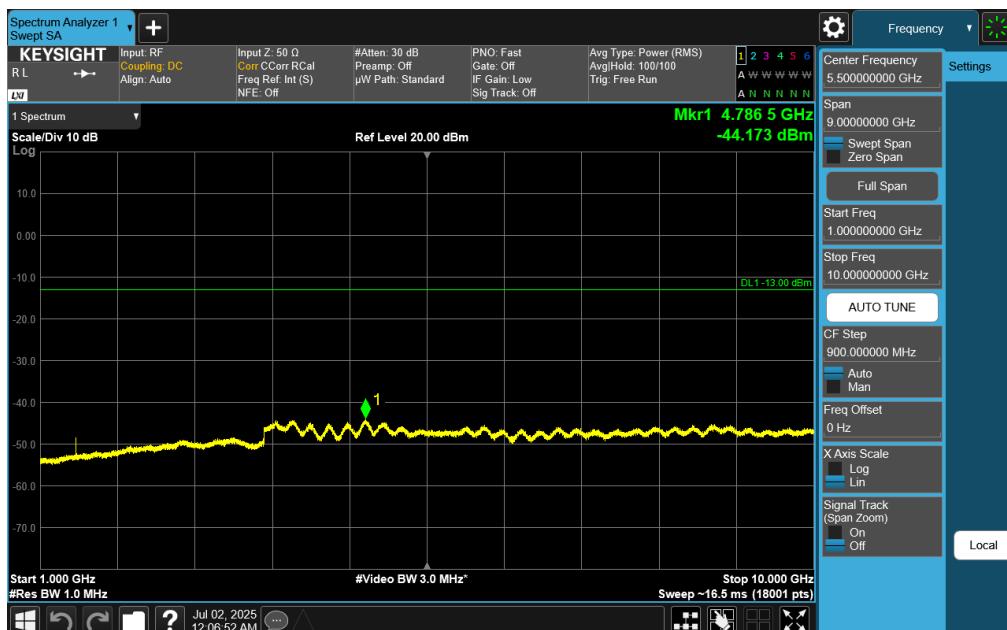


**Plot 7-130. Conducted Spurious Plot (NR Band n12 - 15.0MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 36 - Mid Channel)**

FCC ID: BCG-A3328	element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270037-03.BCG	Test Dates: 12/20/2024 - 7/19/2025	EUT Type: Watch		Page 86 of 202

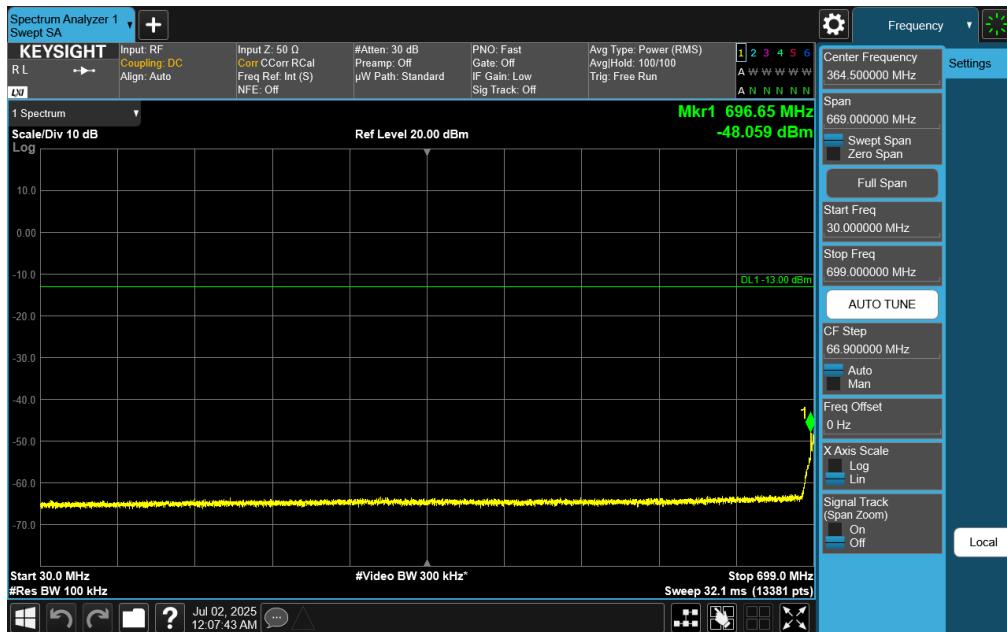


**Plot 7-131. Conducted Spurious Plot (NR Band n12 - 15.0MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 36 - Mid Channel)**

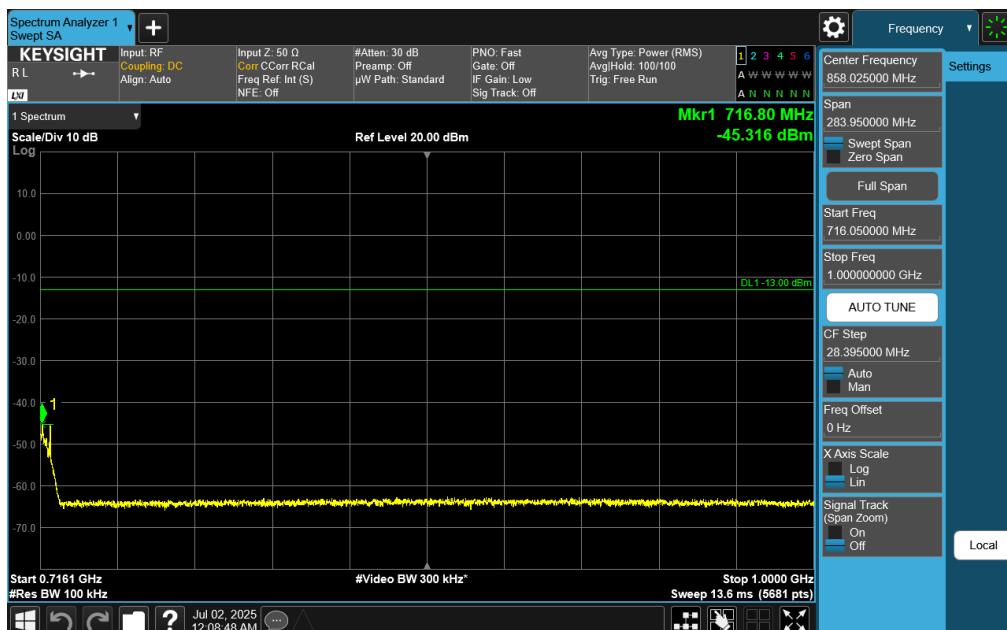


**Plot 7-132. Conducted Spurious Plot (NR Band n12 - 15.0MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 36 - Mid Channel)**

FCC ID: BCG-A3328	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270037-03.BCG	Test Dates: 12/20/2024 - 7/19/2025	EUT Type: Watch		Page 87 of 202

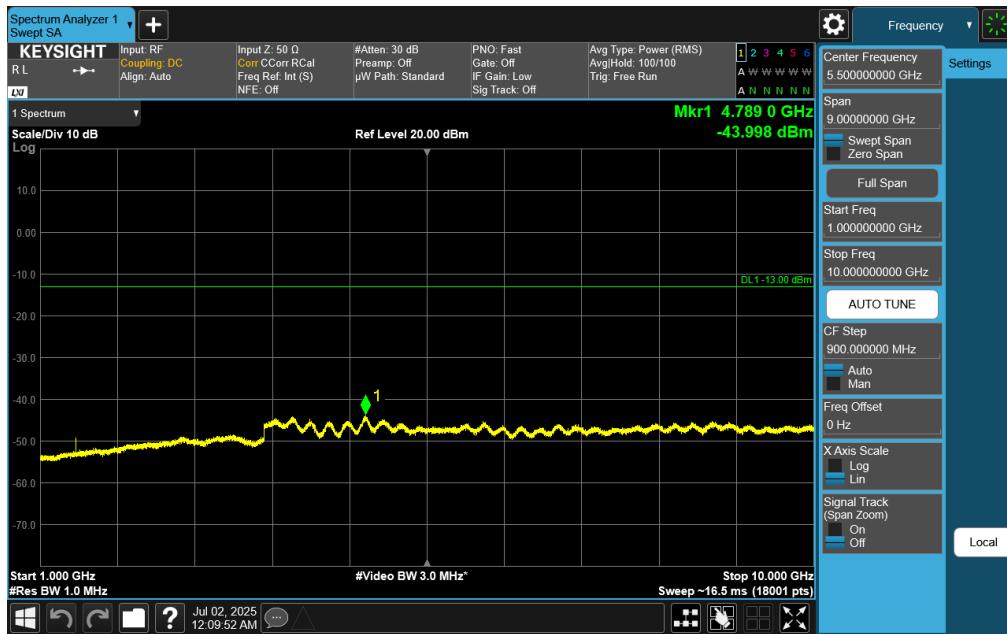


**Plot 7-133. Conducted Spurious Plot (NR Band n12 - 15.0MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 36 - High Channel)**



**Plot 7-134. Conducted Spurious Plot (NR Band n12 - 15.0MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 36 - High Channel)**

FCC ID: BCG-A3328	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270037-03.BCG	Test Dates: 12/20/2024 - 7/19/2025	EUT Type: Watch	Page 88 of 202



**Plot 7-135. Conducted Spurious Plot (NR Band n12 - 15.0MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 36 - High Channel)**

FCC ID: BCG-A3328	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270037-03.BCG	Test Dates: 12/20/2024 - 7/19/2025	EUT Type: Watch		Page 89 of 202

## 7.4 Band Edge Emissions at Antenna Terminal

§2.1051, §27.53

### Test Overview

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 its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

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

### Test Procedure Used

KDB 971168 D01 v03r01 – Section 6.0

### Test Settings

1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. 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

### Test Setup

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

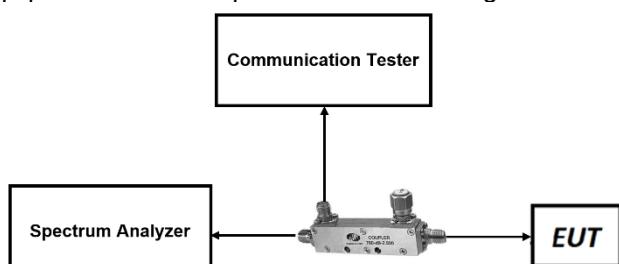


Figure 7-5. LTE Test Instrument & Measurement Setup

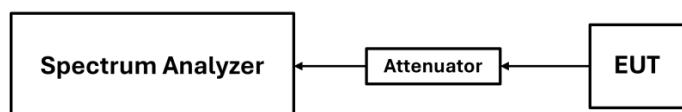


Figure 7-6. FR1 Test Instrument & Measurement Setup

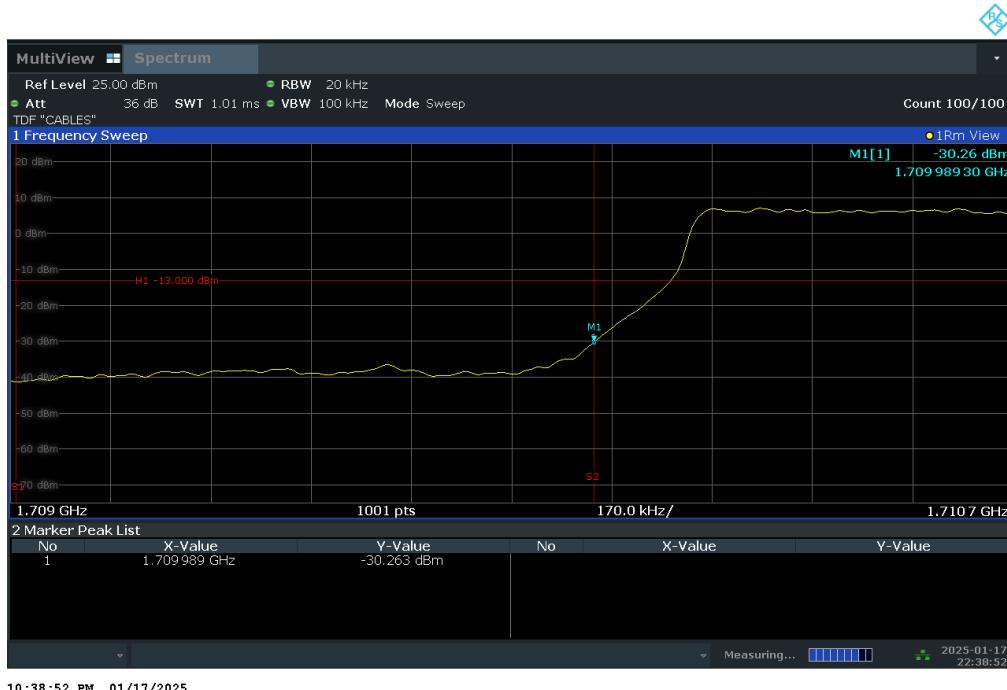
FCC ID: BCG-A3328	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270037-03.BCG	Test Dates: 12/20/2024 - 7/19/2025	EUT Type: Watch		Page 90 of 202

**Test Notes**

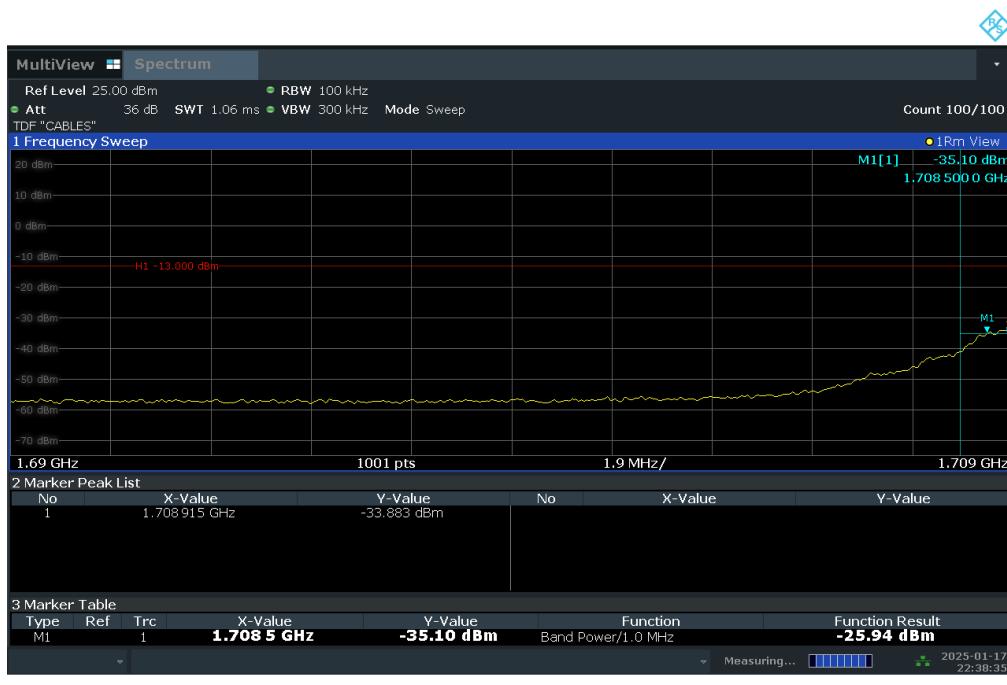
1. Per 27.53(h) in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to demonstrate compliance with the out-of-band emissions limit. The emission 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. Per 27.53(g) for operations in the 663 - 698 MHz and 698 – 746MHz bands, in the 100 kHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least 30 kHz may be employed to demonstrate compliance with the out-of-band emissions limit.
3. Per 27.53(c)(5) for operations in the 776-788 MHz band, in the 100 kHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least 30 kHz may be employed to demonstrate compliance with the out-of-band emissions limit.
4. For all plots showing emissions in the 763 – 775MHz and 793 – 805MHz band, the FCC limit per 27.53(c)(4) is  $65 + 10 \log_{10}(P) = -35\text{dBm}$  in a 6.25kHz bandwidth.
5. 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	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270037-03.BCG	Test Dates: 12/20/2024 - 7/19/2025	EUT Type: Watch		Page 91 of 202

## LTE Band 66

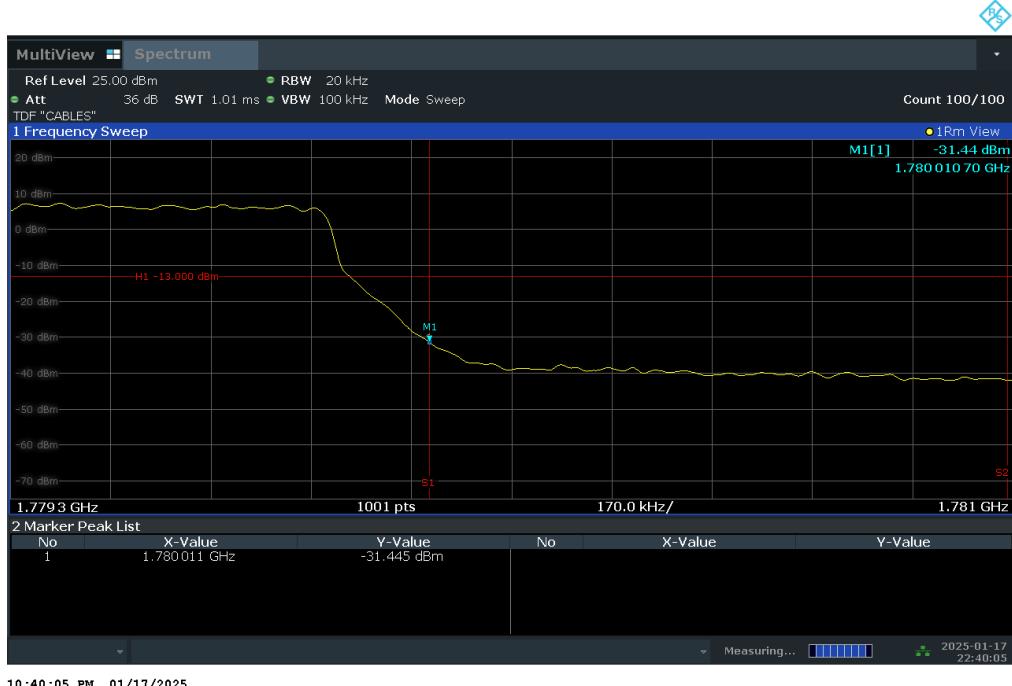


**Plot 7-136. Lower Band Edge Plot (LTE Band 66 – 1.4MHz QPSK – Full RB)**

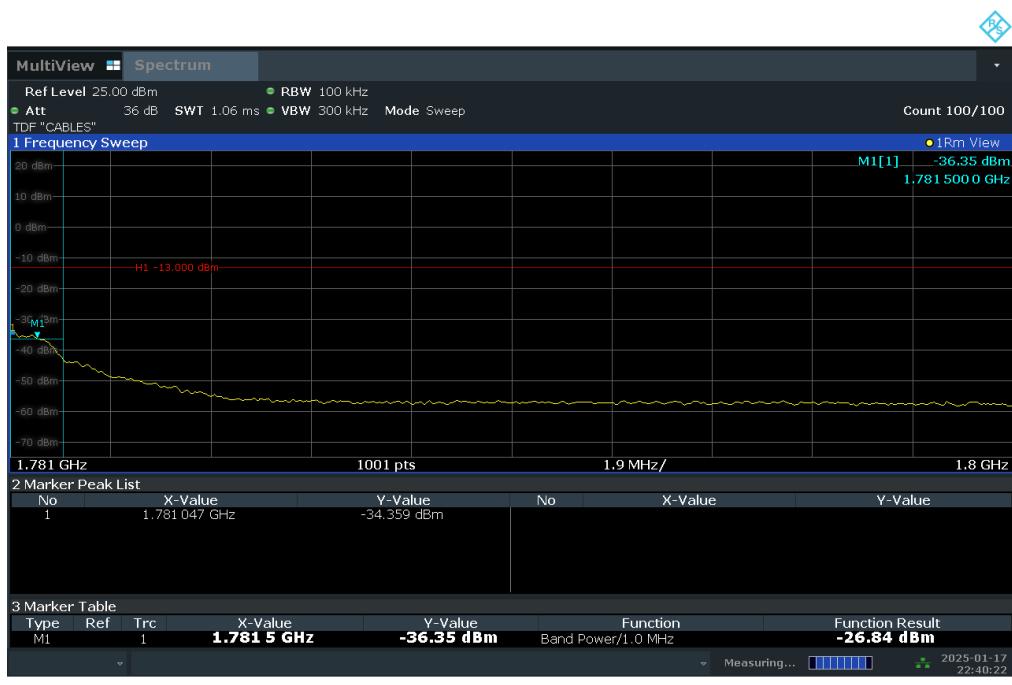


**Plot 7-137. Lower Extended Band Edge Plot (LTE Band 66 – 1.4MHz QPSK – Full RB)**

FCC ID: BCG-A3328	 element	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270037-03.BCG	Test Dates: 12/20/2024 - 7/19/2025	EUT Type: Watch			

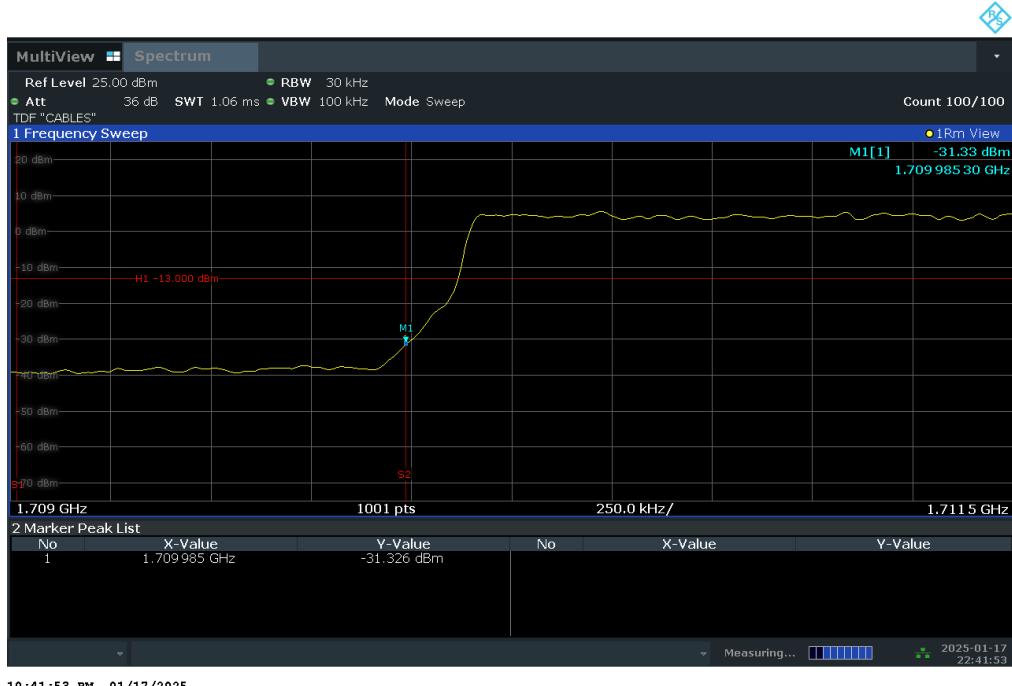


**Plot 7-138. Upper Band Edge Plot (LTE Band 66 – 1.4MHz QPSK – Full RB)**

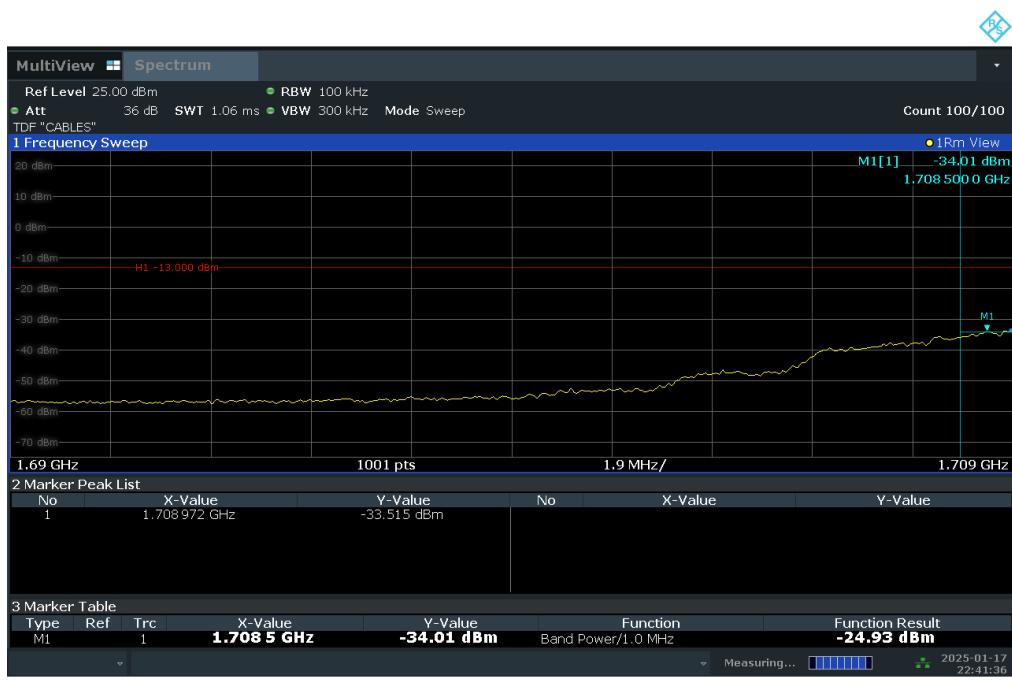


**Plot 7-139. Upper Extended Band Edge Plot (LTE Band 66 – 1.4MHz QPSK – Full RB)**

FCC ID: BCG-A3328	 element	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270037-03.BCG	Test Dates: 12/20/2024 - 7/19/2025	EUT Type: Watch			

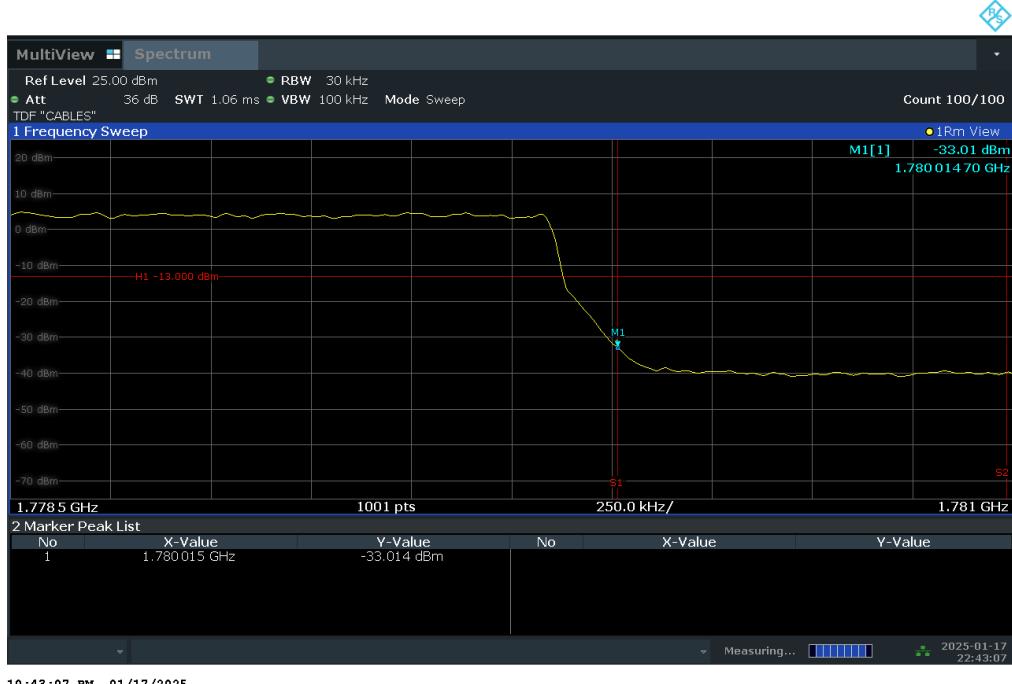


Plot 7-140. Lower Band Edge Plot (LTE Band 66 - 3MHz QPSK – Full RB)

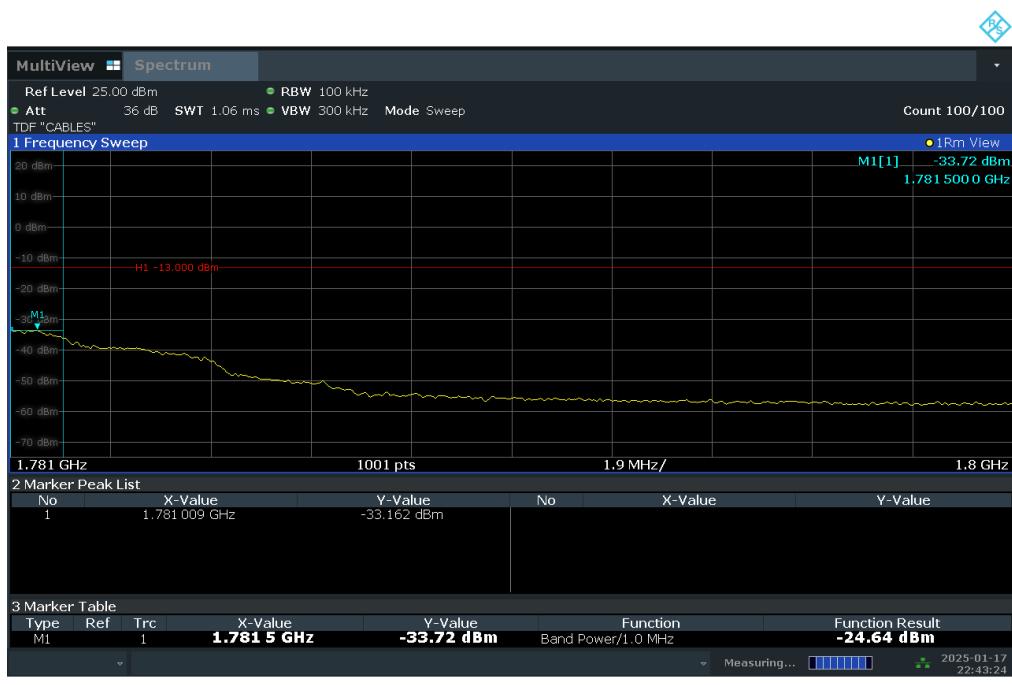


Plot 7-141. Lower Extended Band Edge Plot (LTE Band 66 - 3MHz QPSK – Full RB)

FCC ID: BCG-A3328	 element	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270037-03.BCG	Test Dates: 12/20/2024 - 7/19/2025	EUT Type: Watch			

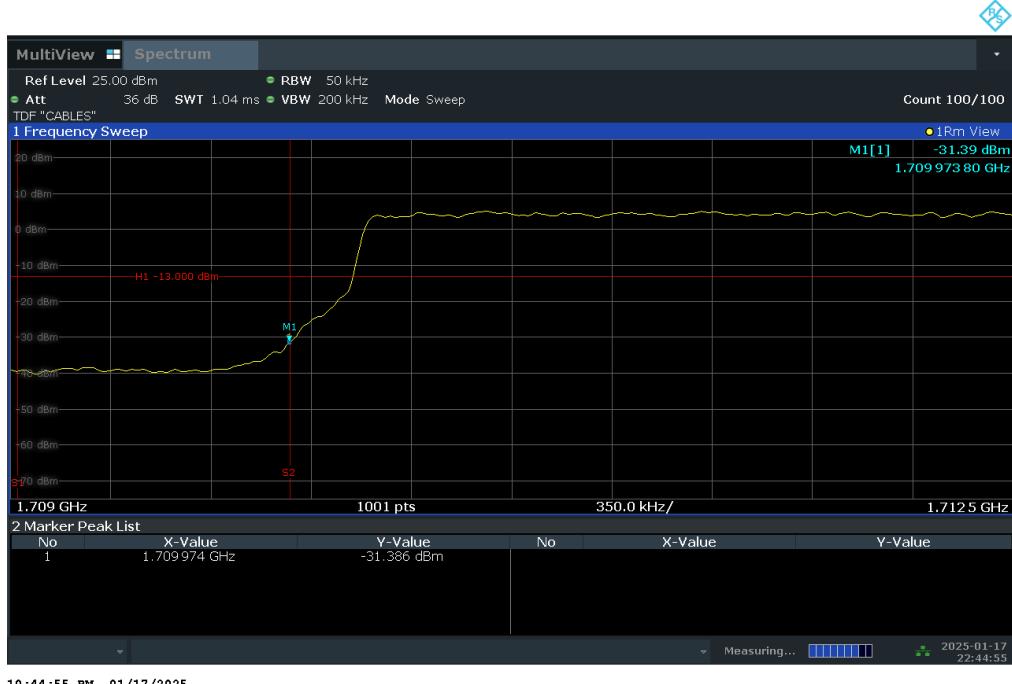


Plot 7-142. Upper Band Edge Plot (LTE Band 66 - 3MHz QPSK – Full RB)

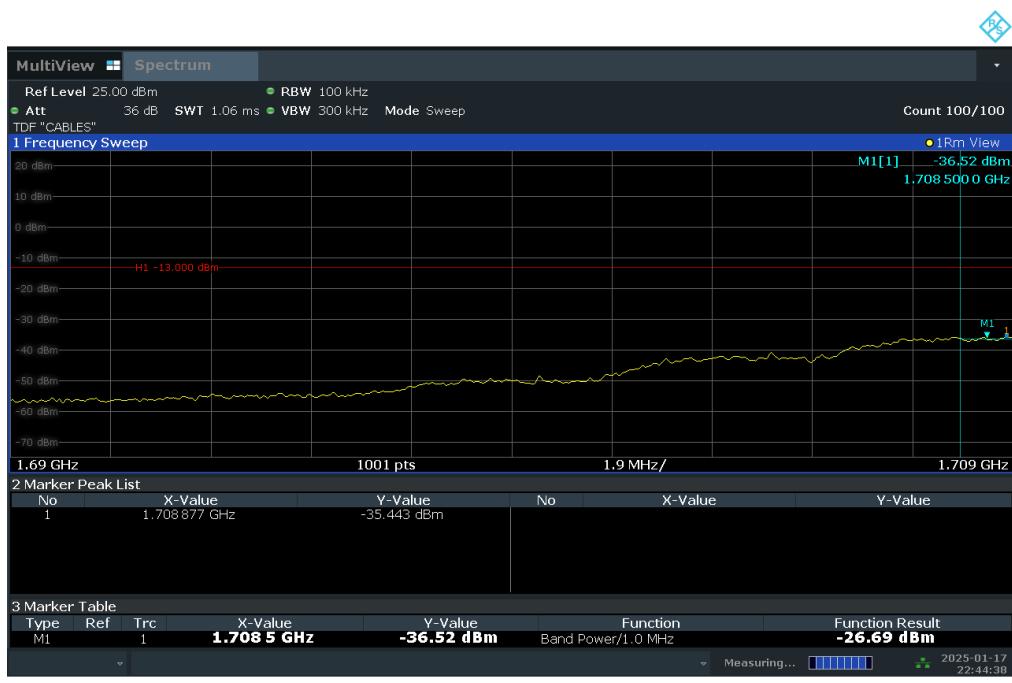


Plot 7-143. Upper Extended Band Edge Plot (LTE Band 66 - 3MHz QPSK – Full RB)

FCC ID: BCG-A3328	 element	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270037-03.BCG	Test Dates: 12/20/2024 - 7/19/2025	EUT Type: Watch			

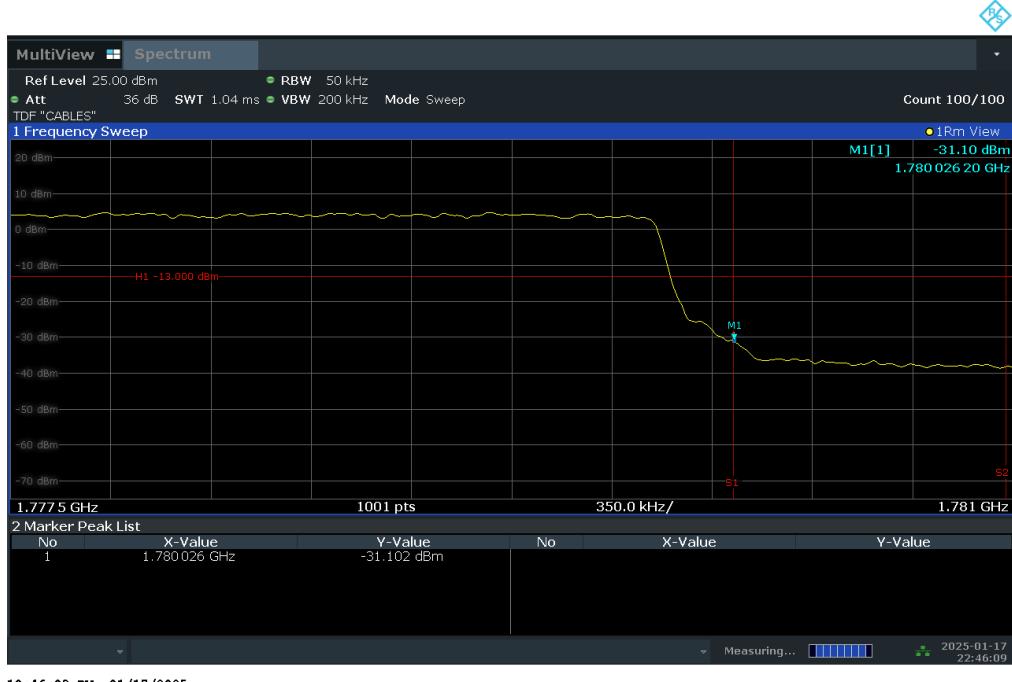


Plot 7-144. Lower Band Edge Plot (LTE Band 66 - 5MHz QPSK – Full RB)

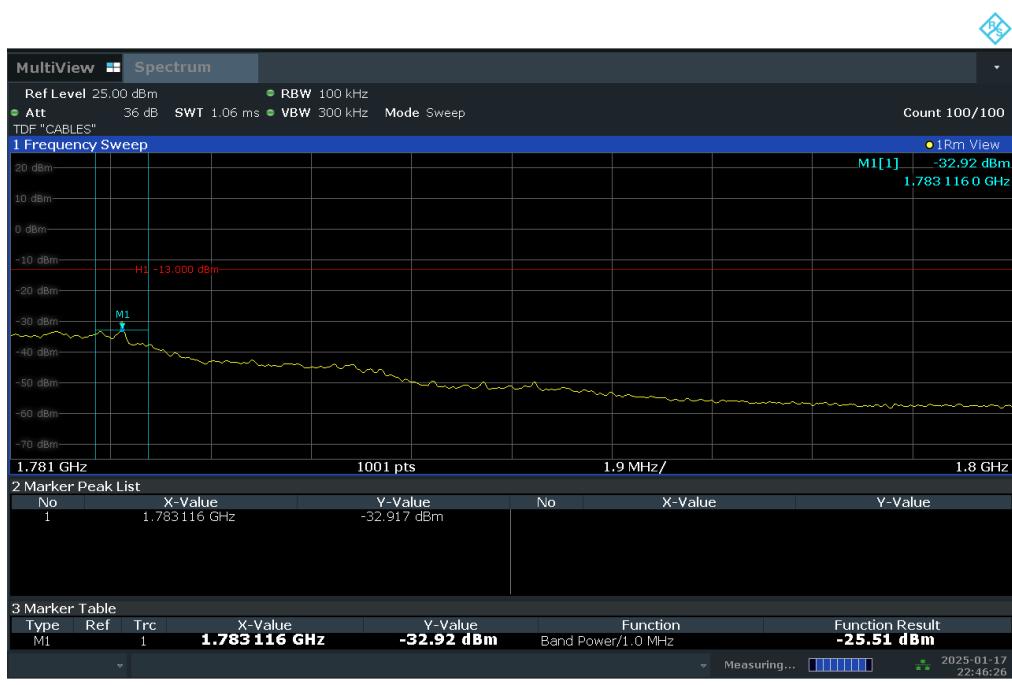


Plot 7-145. Lower Extended Band Edge Plot (LTE Band 66 - 5MHz QPSK – Full RB)

FCC ID: BCG-A3328	 element	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270037-03.BCG	Test Dates: 12/20/2024 - 7/19/2025	EUT Type: Watch			

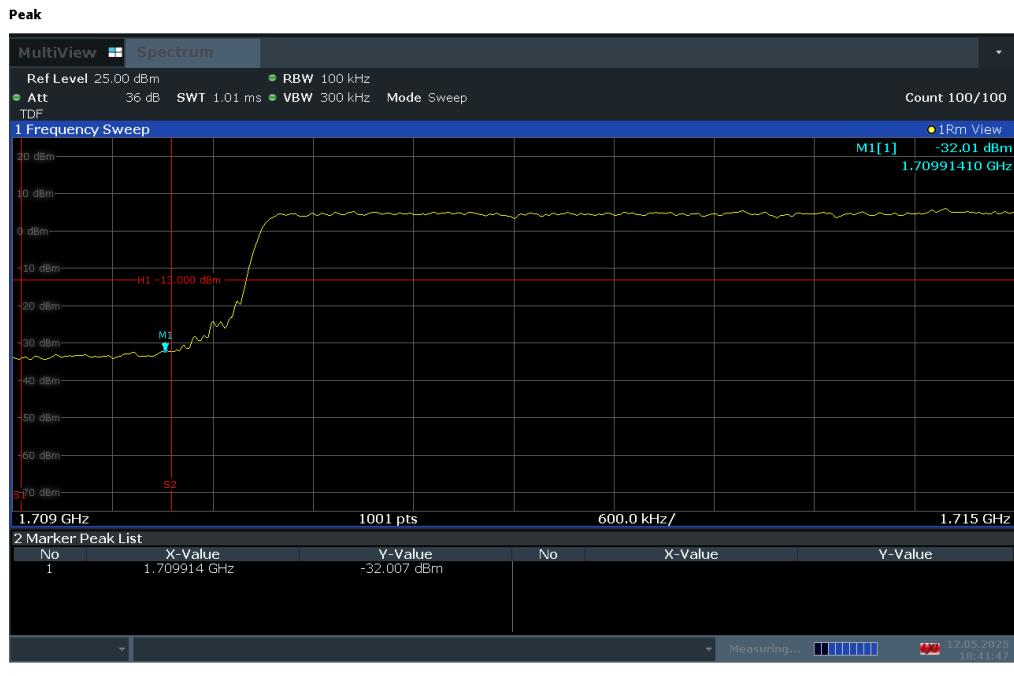


**Plot 7-146. Upper Band Edge Plot (LTE Band 66 - 5MHz QPSK – Full RB)**

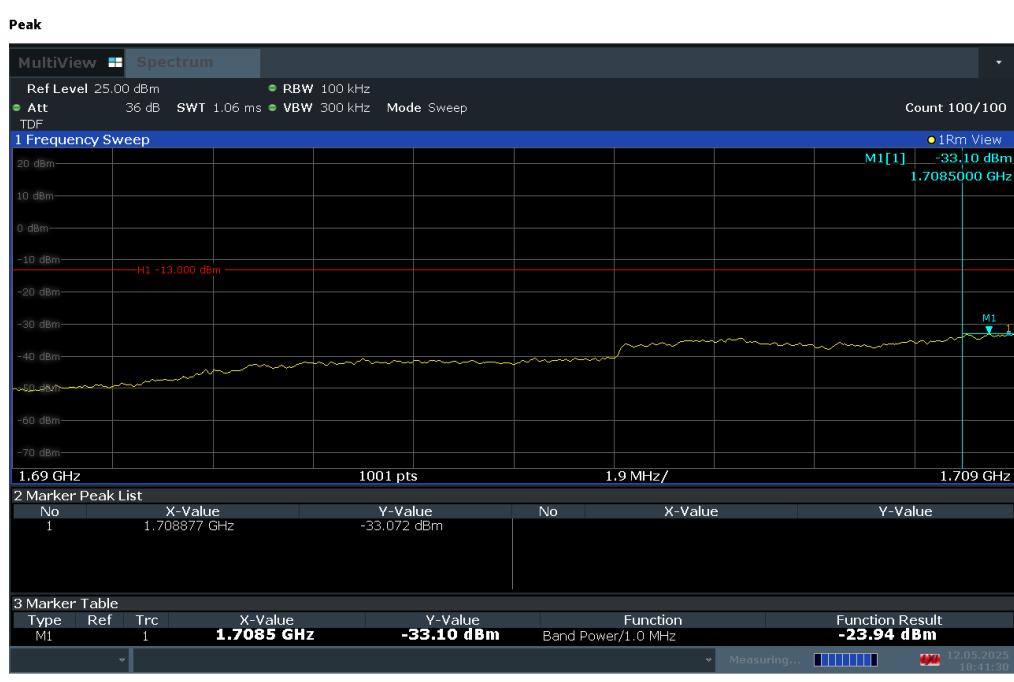


**Plot 7-147. Upper Extended Band Edge Plot (LTE Band 66 - 5MHz QPSK – Full RB)**

FCC ID: BCG-A3328	 element	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270037-03.BCG	Test Dates: 12/20/2024 - 7/19/2025	EUT Type: Watch			

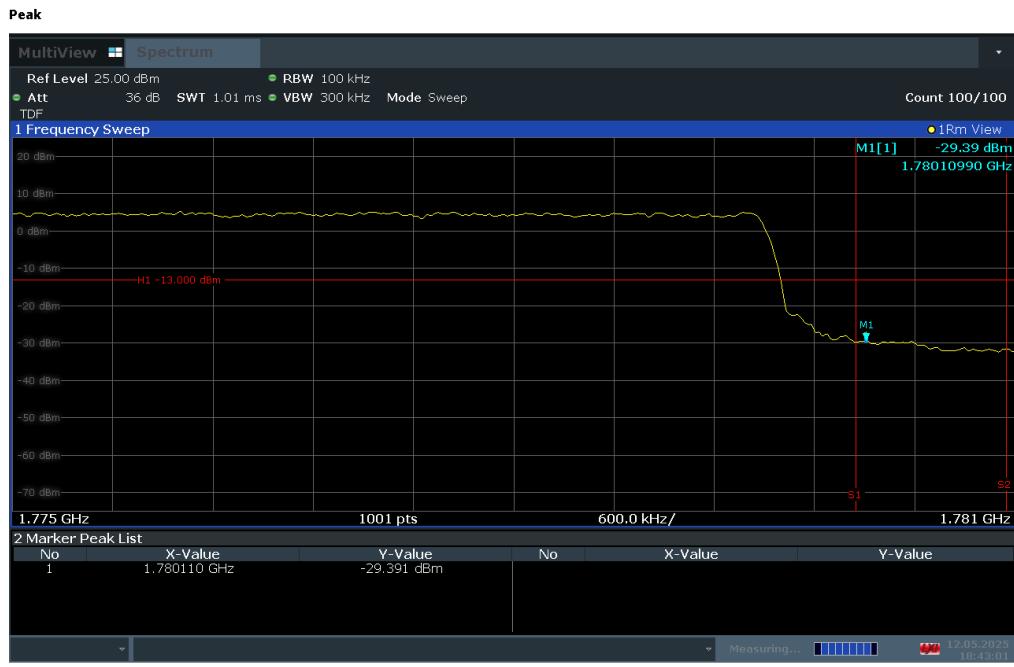


**Plot 7-148. Lower Band Edge Plot (LTE Band 66 - 10MHz QPSK – Full RB)**

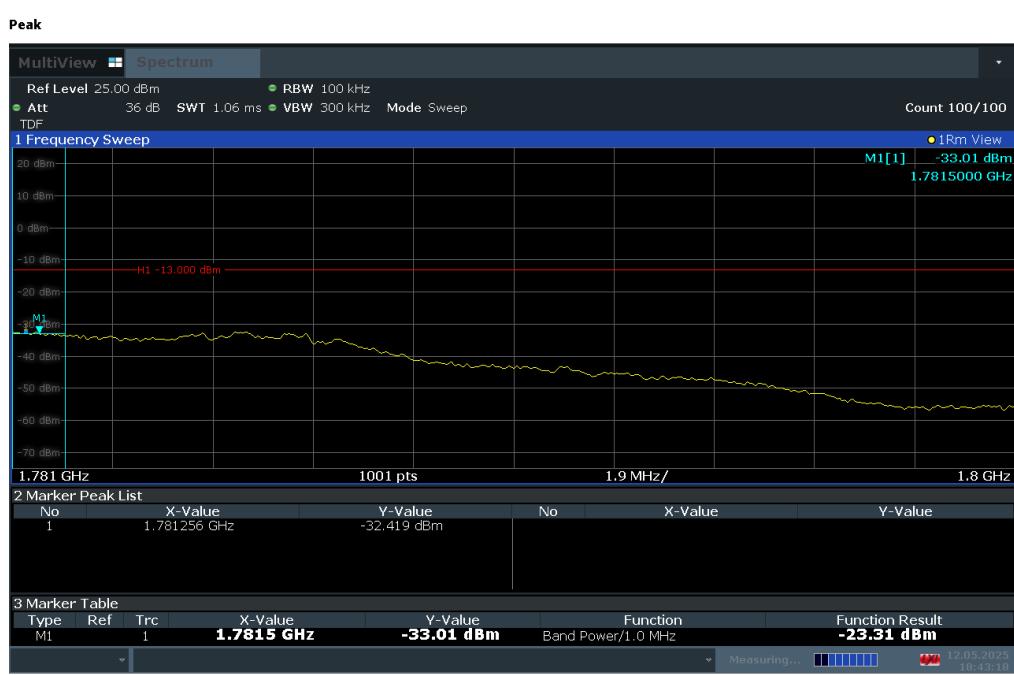


**Plot 7-149. Lower Extended Band Edge Plot (LTE Band 66 - 10MHz QPSK – Full RB)**

FCC ID: BCG-A3328	 element	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270037-03.BCG	Test Dates: 12/20/2024 - 7/19/2025	EUT Type: Watch			

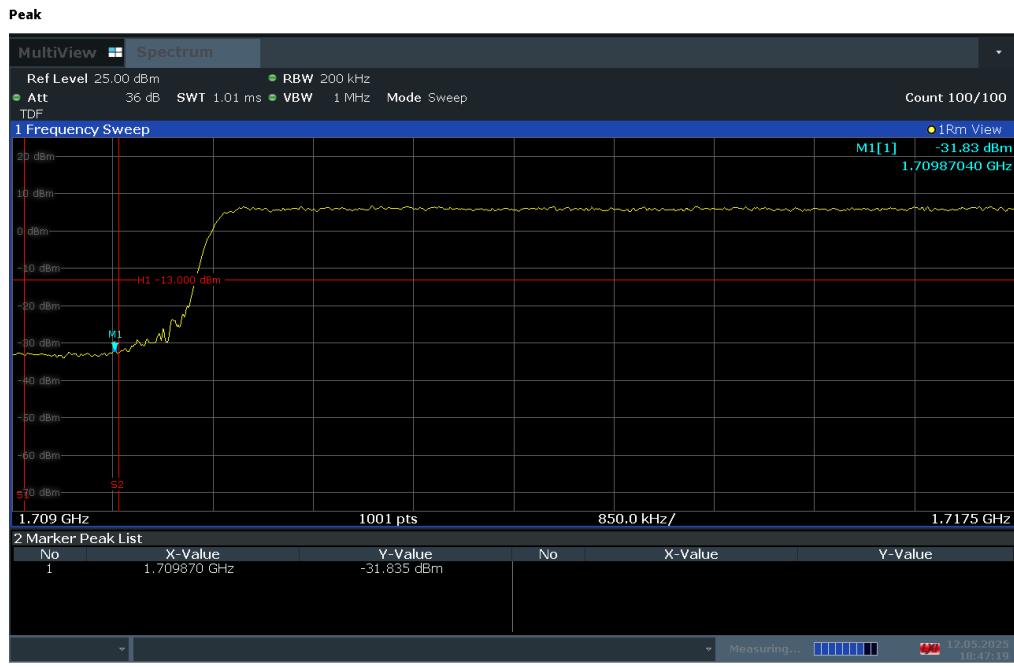


**Plot 7-150. Upper Band Edge Plot (LTE Band 66 - 10MHz QPSK – Full RB)**

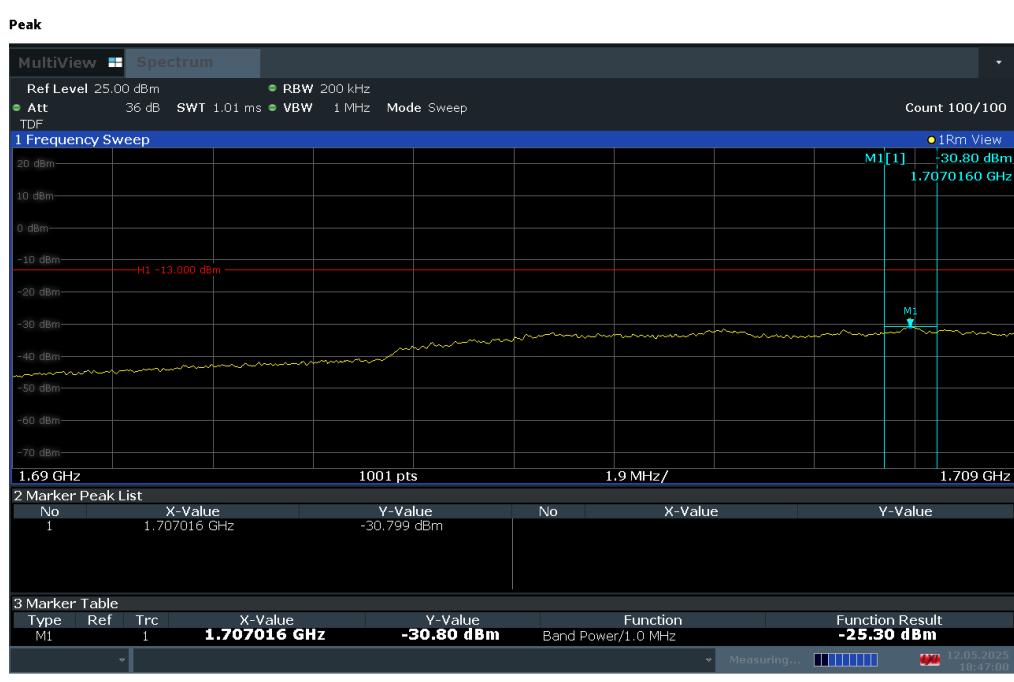


**Plot 7-151. Upper Extended Band Edge Plot (LTE Band 66 - 10MHz QPSK – Full RB)**

FCC ID: BCG-A3328	 element	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270037-03.BCG	Test Dates: 12/20/2024 - 7/19/2025	EUT Type: Watch			

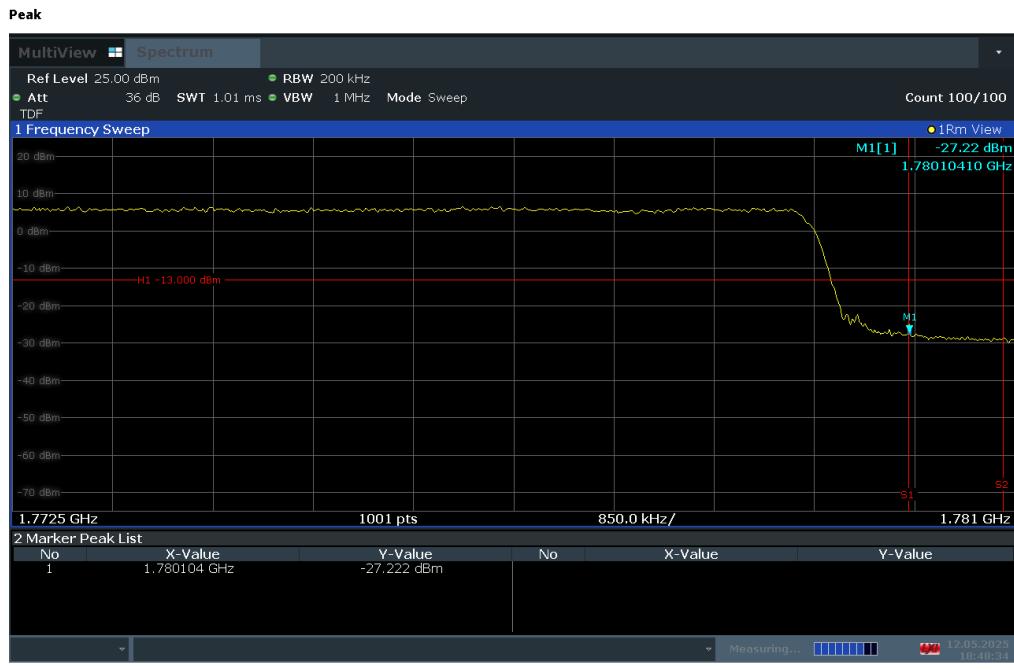


**Plot 7-152. Lower Band Edge Plot (LTE Band 66 - 15MHz QPSK – Full RB)**



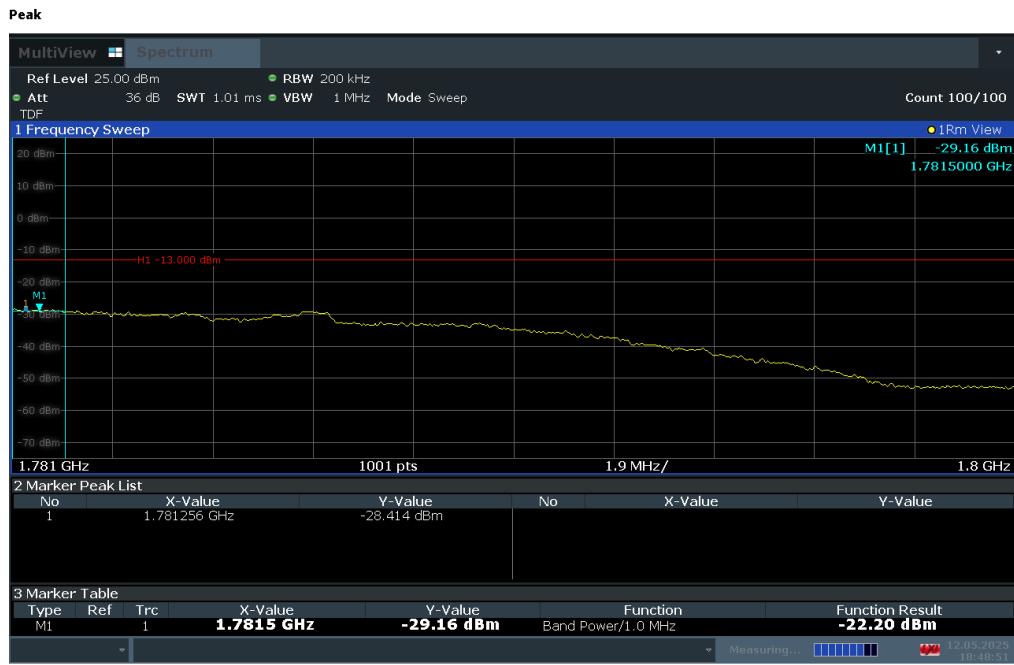
**Plot 7-153. Lower Extended Band Edge Plot (LTE Band 66 - 15MHz QPSK – Full RB)**

FCC ID: BCG-A3328	 element	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270037-03.BCG	Test Dates: 12/20/2024 - 7/19/2025	EUT Type: Watch			



18:48:34 12.05.2025

**Plot 7-154. Upper Band Edge Plot (LTE Band 66 - 15MHz QPSK – Full RB)**



18:48:52 12.05.2025

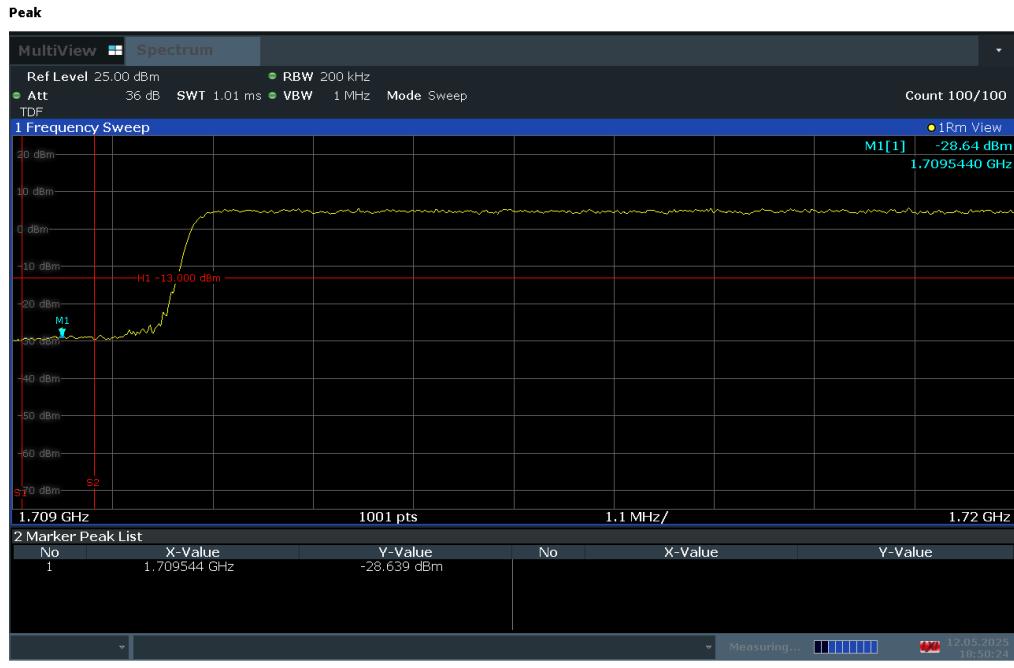
**Plot 7-155. Upper Extended Band Edge Plot (LTE Band 66 - 15MHz QPSK – Full RB)**

FCC ID: BCG-A3328	 element	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270037-03.BCG	Test Dates: 12/20/2024 - 7/19/2025	EUT Type: Watch			

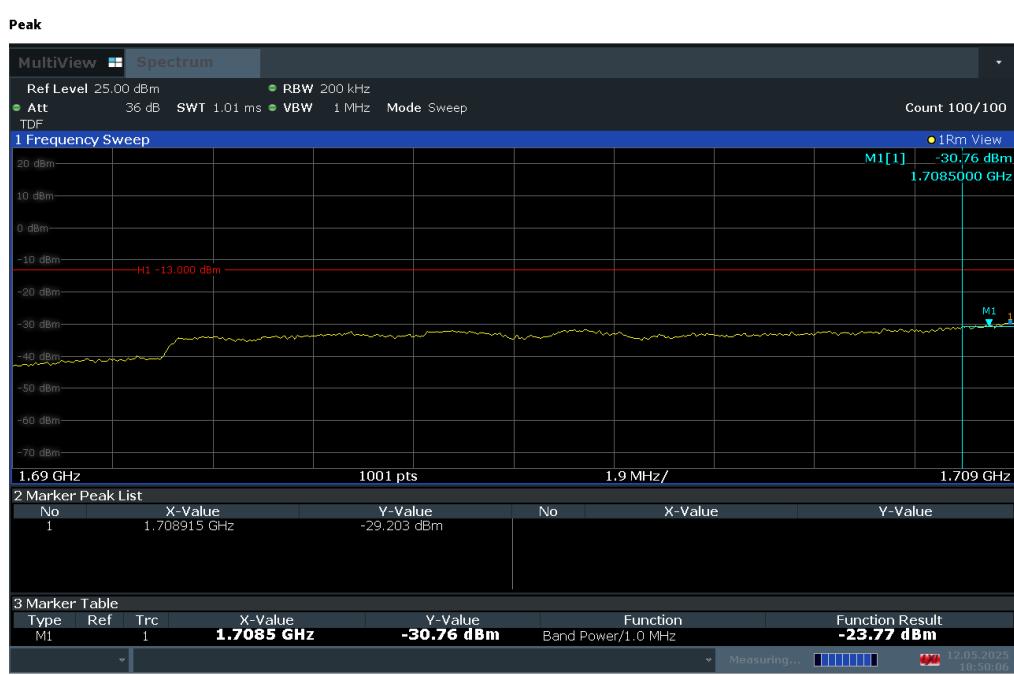
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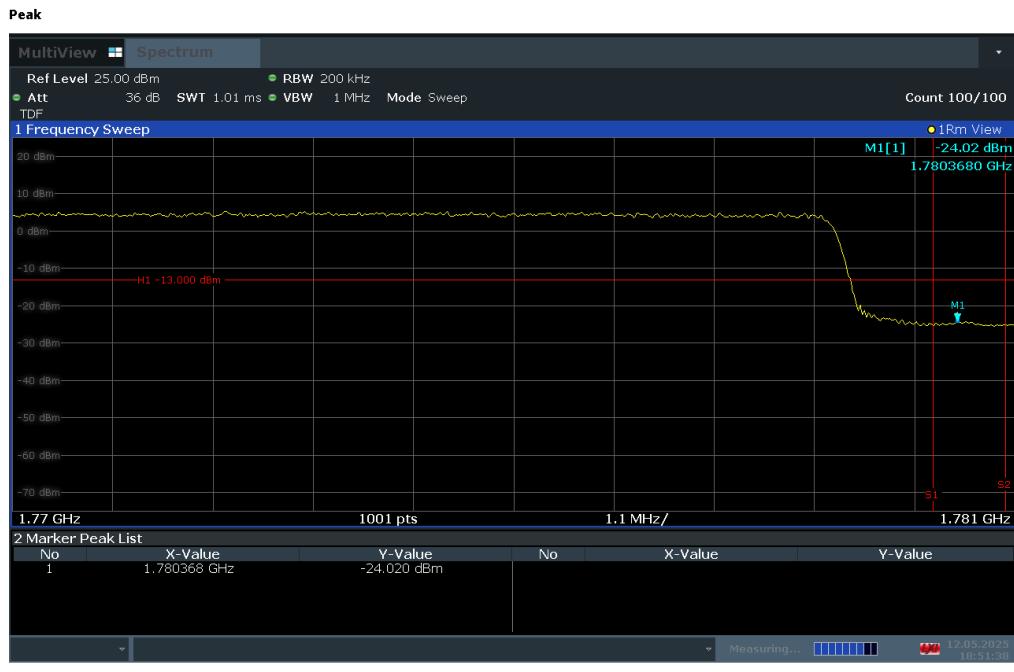


**Plot 7-156. Lower Band Edge Plot (LTE Band 66 - 20MHz QPSK – Full RB)**

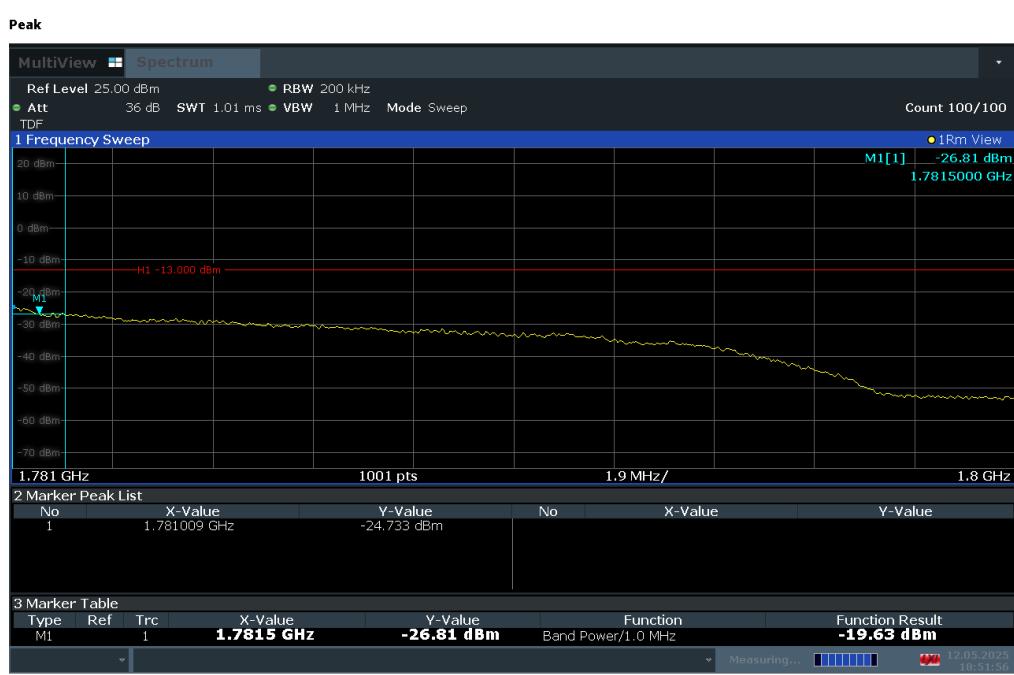


**Plot 7-157. Lower Extended Band Edge Plot (LTE Band 66 - 20MHz QPSK – Full RB)**

FCC ID: BCG-A3328	element	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270037-03.BCG	Test Dates: 12/20/2024 - 7/19/2025	EUT Type: Watch			



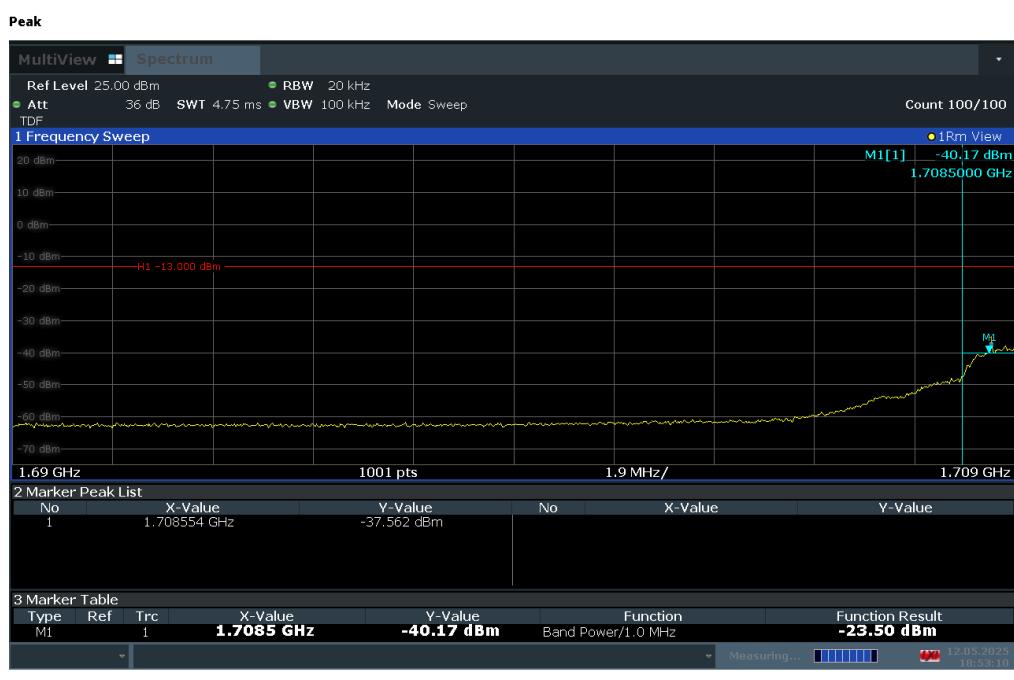
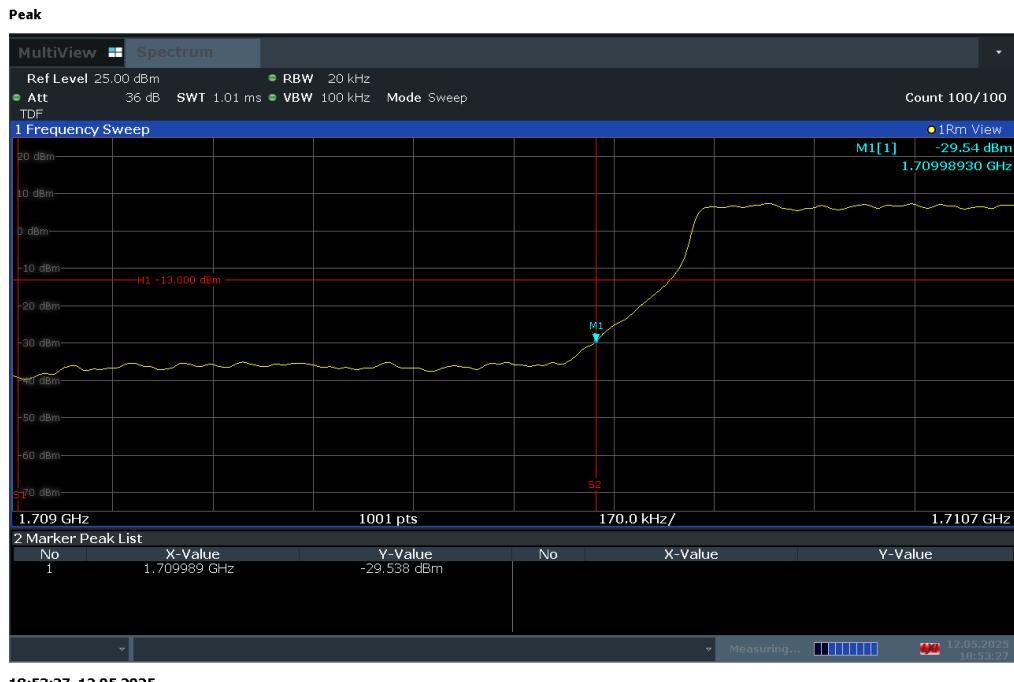
**Plot 7-158. Upper Band Edge Plot (LTE Band 66 - 20MHz QPSK – Full RB)**



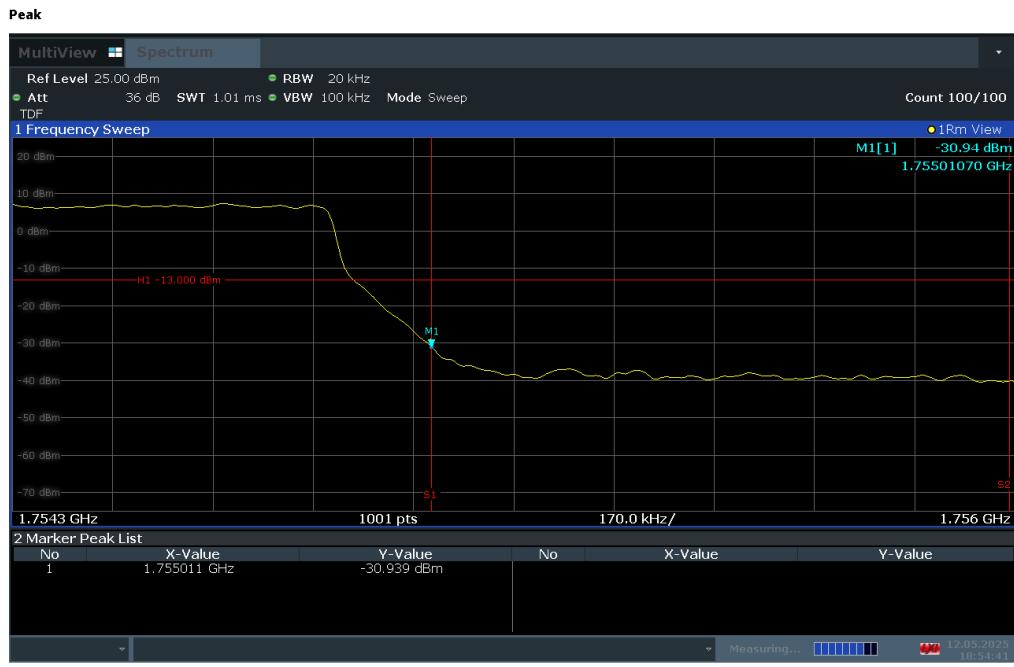
**Plot 7-159. Upper Extended Band Edge Plot (LTE Band 66 - 20MHz QPSK – Full RB)**

FCC ID: BCG-A3328	 element	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270037-03.BCG	Test Dates: 12/20/2024 - 7/19/2025	EUT Type: Watch			

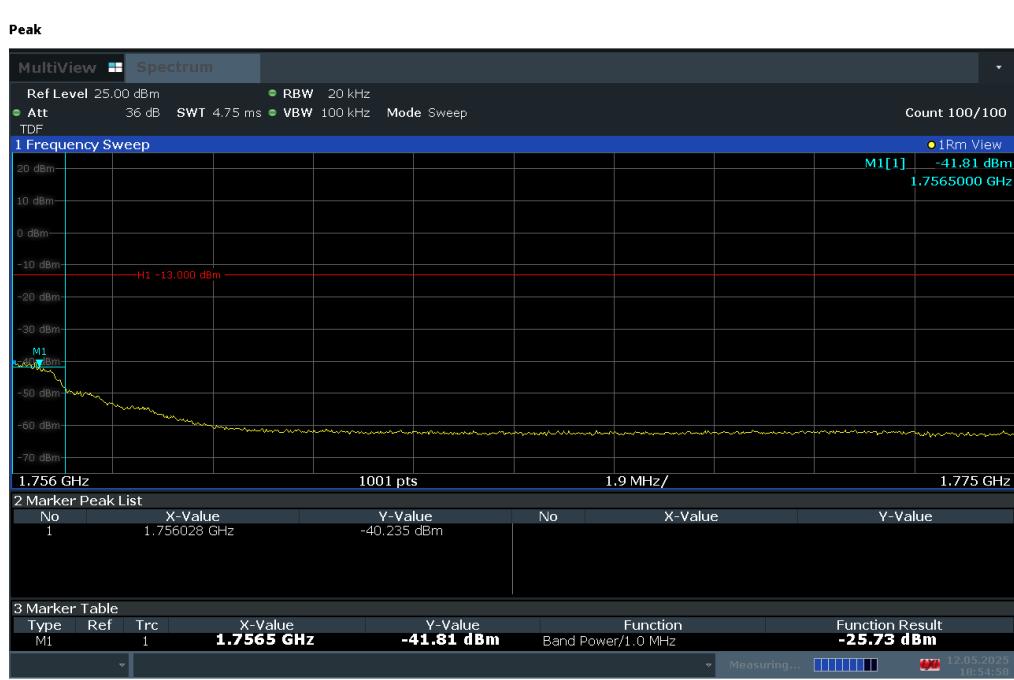
## LTE Band 4



FCC ID: BCG-A3328	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270037-03.BCG	Test Dates: 12/20/2024 - 7/19/2025	EUT Type: Watch		Page 104 of 202

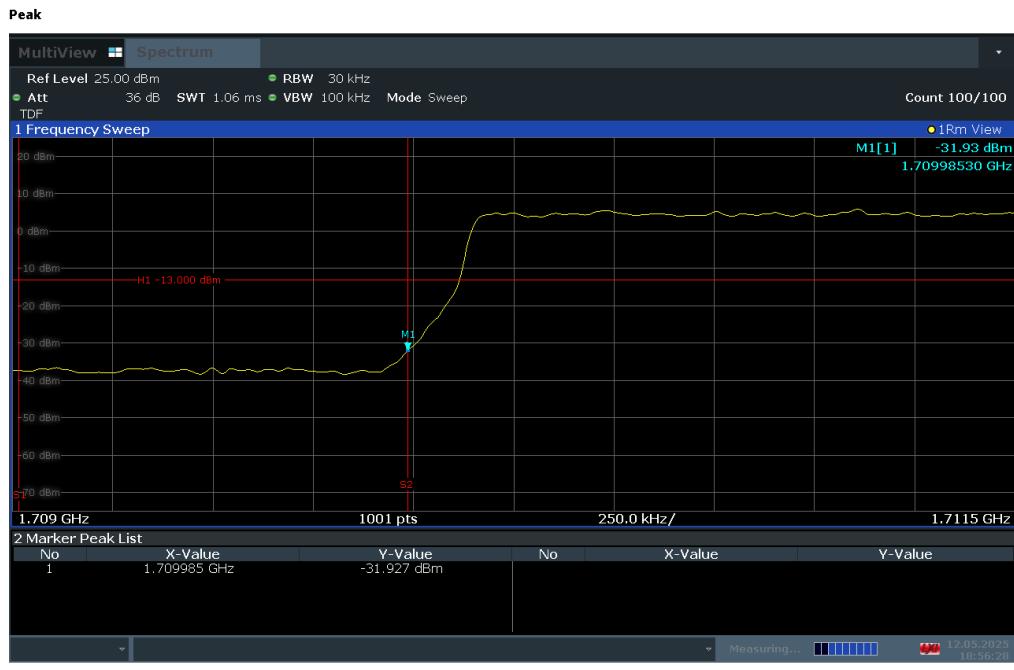


**Plot 7-162. Upper Band Edge Plot (LTE Band 4 – 1.4MHz QPSK – Full RB)**

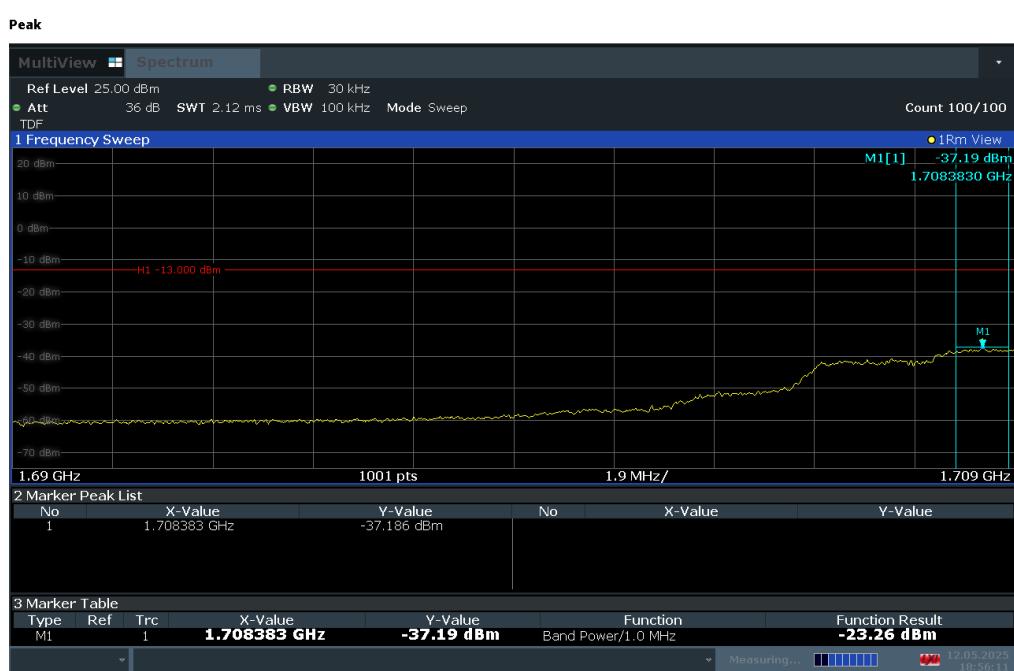


**Plot 7-163. Upper Extended Band Edge Plot (LTE Band 4 – 1.4MHz QPSK – Full RB)**

FCC ID: BCG-A3328	 element	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270037-03.BCG	Test Dates: 12/20/2024 - 7/19/2025	EUT Type: Watch			



**Plot 7-164. Lower Band Edge Plot (LTE Band 4 - 3MHz QPSK – Full RB)**



**Plot 7-165. Lower Extended Band Edge Plot (LTE Band 4 - 3MHz QPSK – Full RB)**

FCC ID: BCG-A3328	 element	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270037-03.BCG	Test Dates: 12/20/2024 - 7/19/2025	EUT Type: Watch			

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