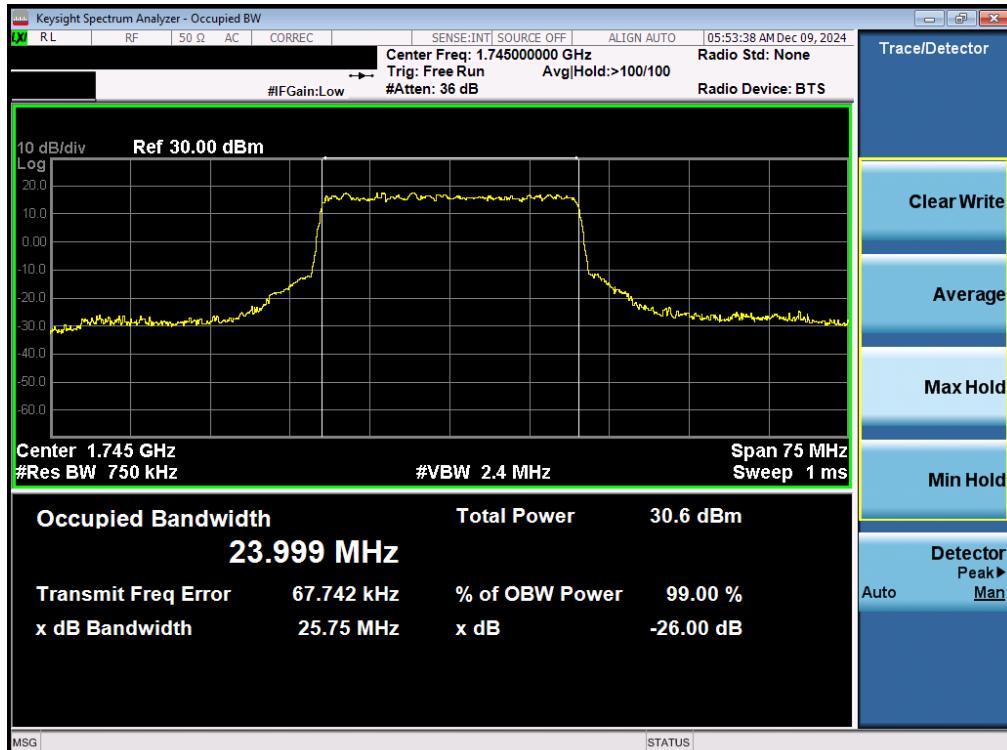
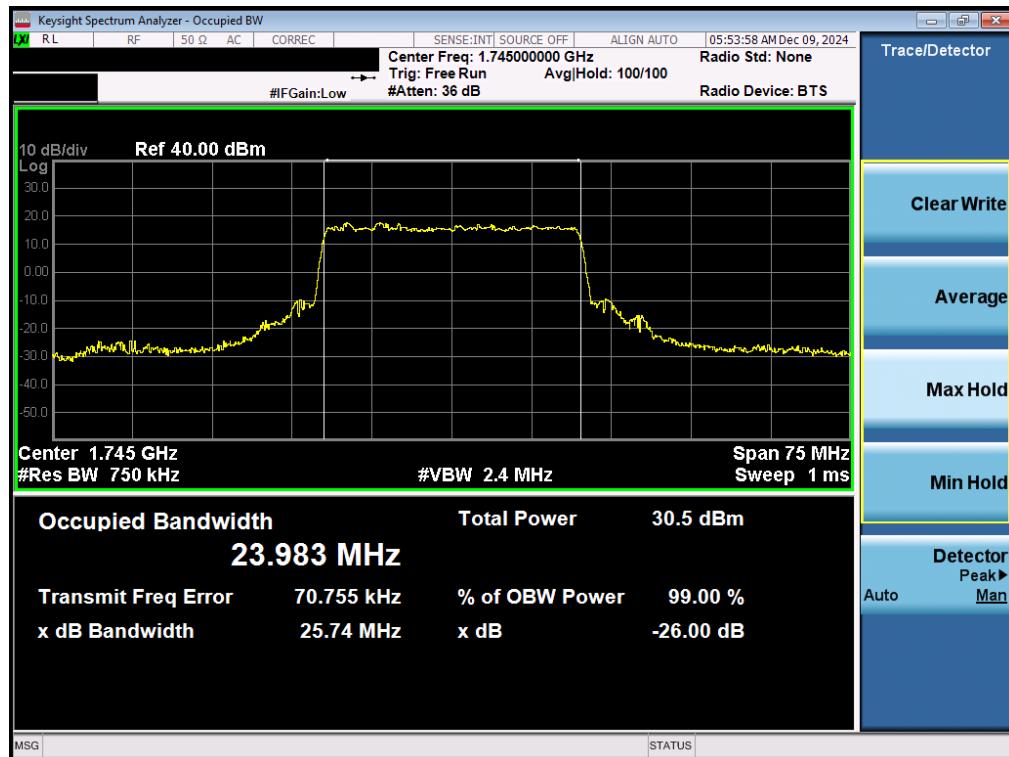


Plot 7-102. Occupied Bandwidth Plot (NR Band n66 - 25.0MHz DFT-s-OFDM BPSK - Full RB – Ant 1)

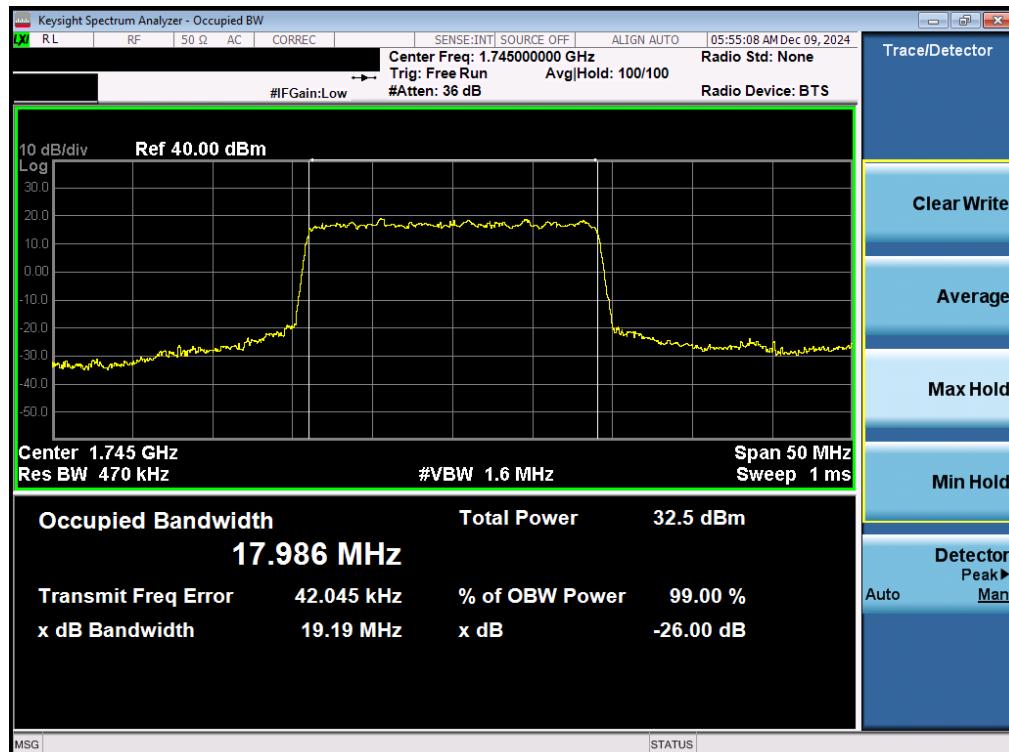


Plot 7-103. Occupied Bandwidth Plot (NR Band n66 - 25.0MHz CP-OFDM QPSK - Full RB – Ant 1)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-03-R3.C3K	Test Dates: 12/3/2024 - 2/14/2025	EUT Type: Full Modular	Page 79 of 205

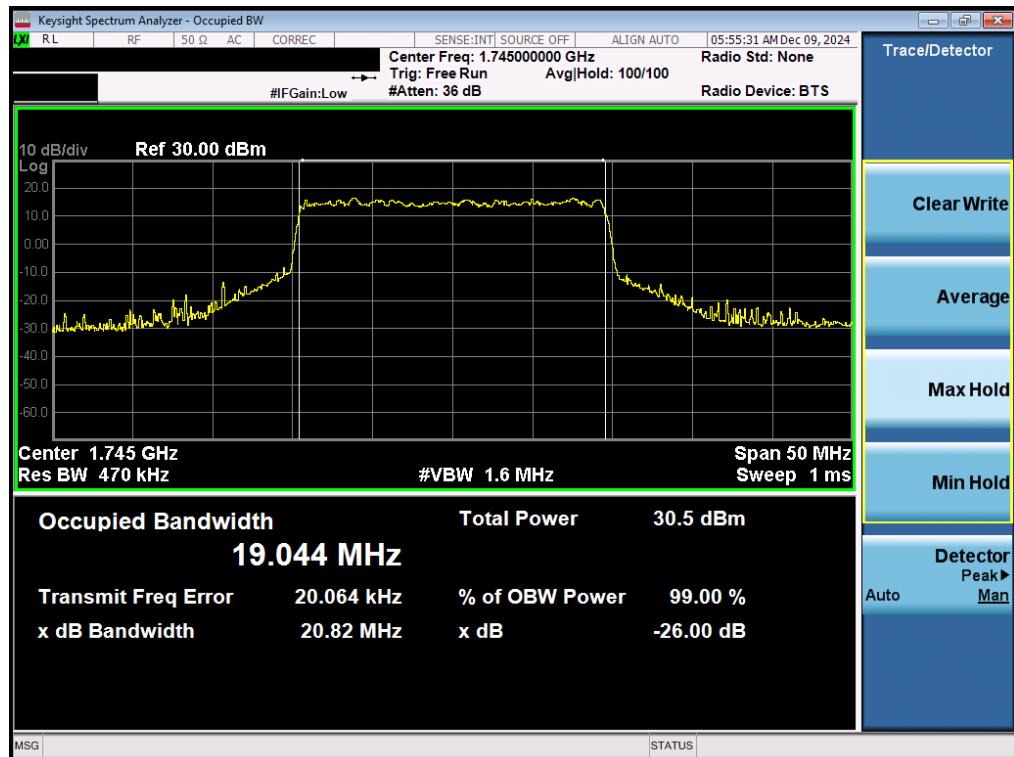


Plot 7-104. Occupied Bandwidth Plot (NR Band n66 - 25.0MHz CP-OFDM 16QAM - Full RB – Ant 1)

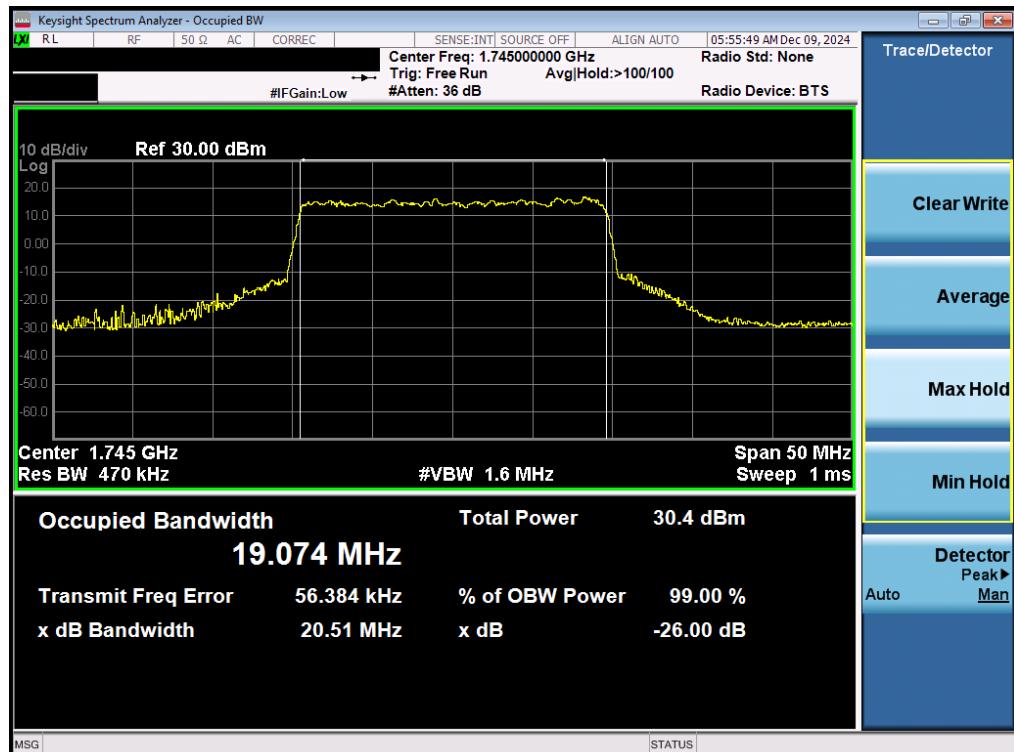


Plot 7-105. Occupied Bandwidth Plot (NR Band n66 - 20.0MHz DFT-s-OFDM BPSK - Full RB – Ant 1)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-03-R3.C3K	Test Dates: 12/3/2024 - 2/14/2025	EUT Type: Full Modular	Page 80 of 205

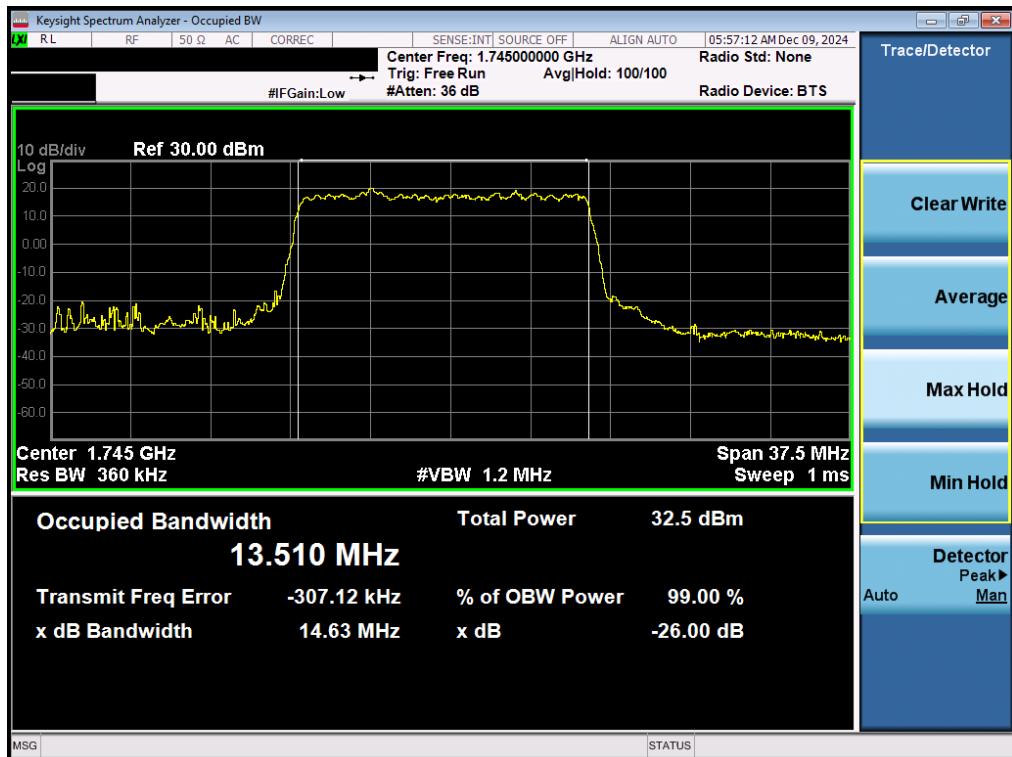


Plot 7-106. Occupied Bandwidth Plot (NR Band n66 - 20.0MHz CP-OFDM QPSK - Full RB – Ant 1)

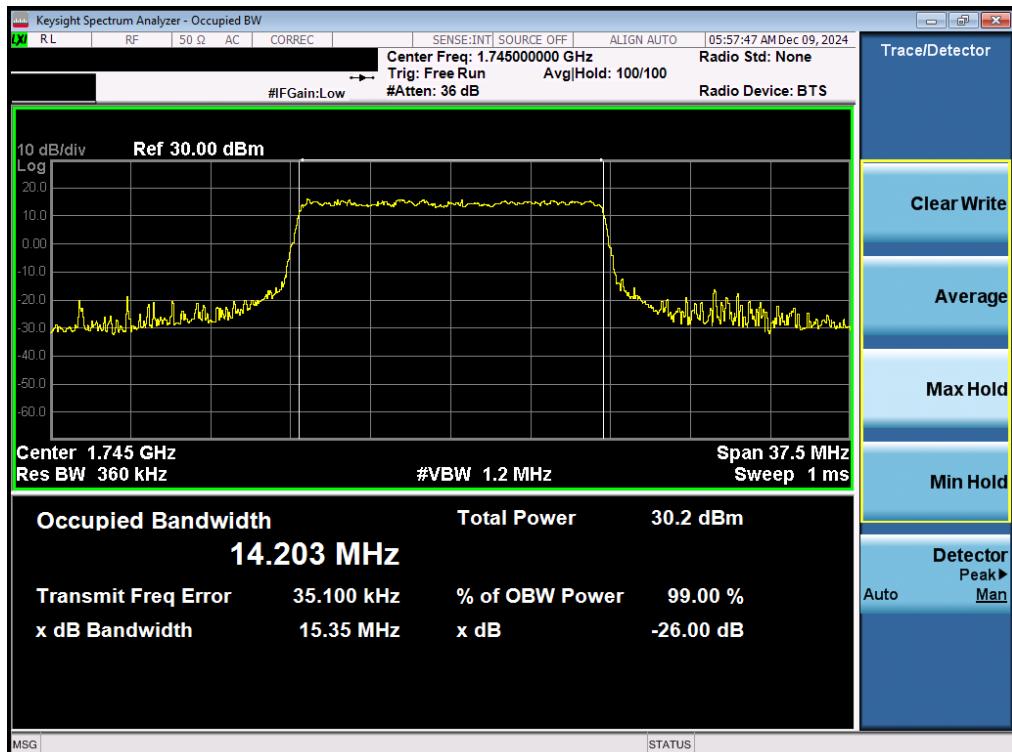


Plot 7-107. Occupied Bandwidth Plot (NR Band n66 - 20.0MHz CP-OFDM 16QAM - Full RB – Ant 1)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-03-R3.C3K	Test Dates: 12/3/2024 - 2/14/2025	EUT Type: Full Modular	Page 81 of 205

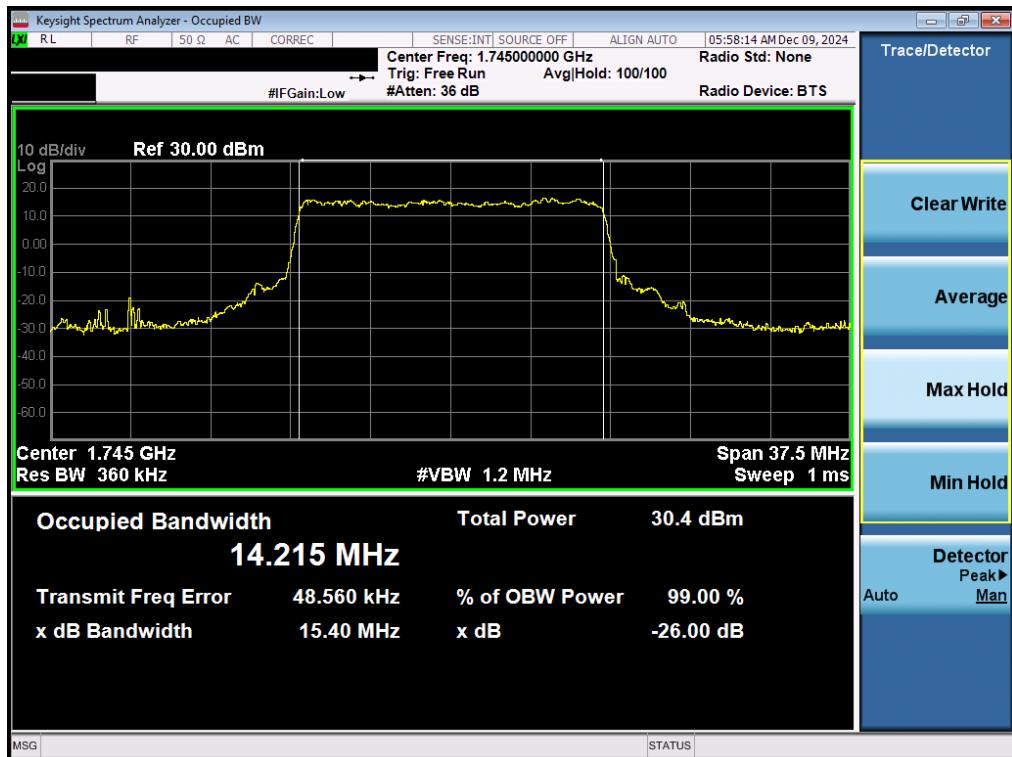


Plot 7-108. Occupied Bandwidth Plot (NR Band n66 - 15.0MHz DFT-s-OFDM BPSK - Full RB – Ant 1)

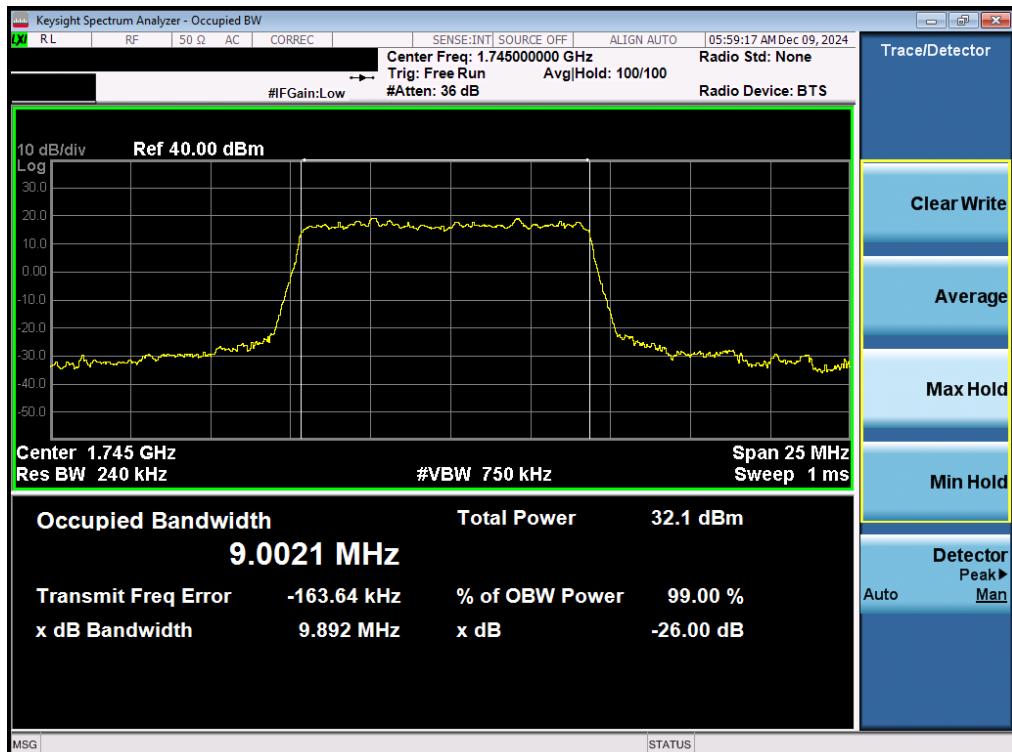


Plot 7-109. Occupied Bandwidth Plot (NR Band n66 - 15.0MHz CP-OFDM QPSK - Full RB – Ant 1)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-03-R3.C3K	Test Dates: 12/3/2024 - 2/14/2025	EUT Type: Full Modular	Page 82 of 205

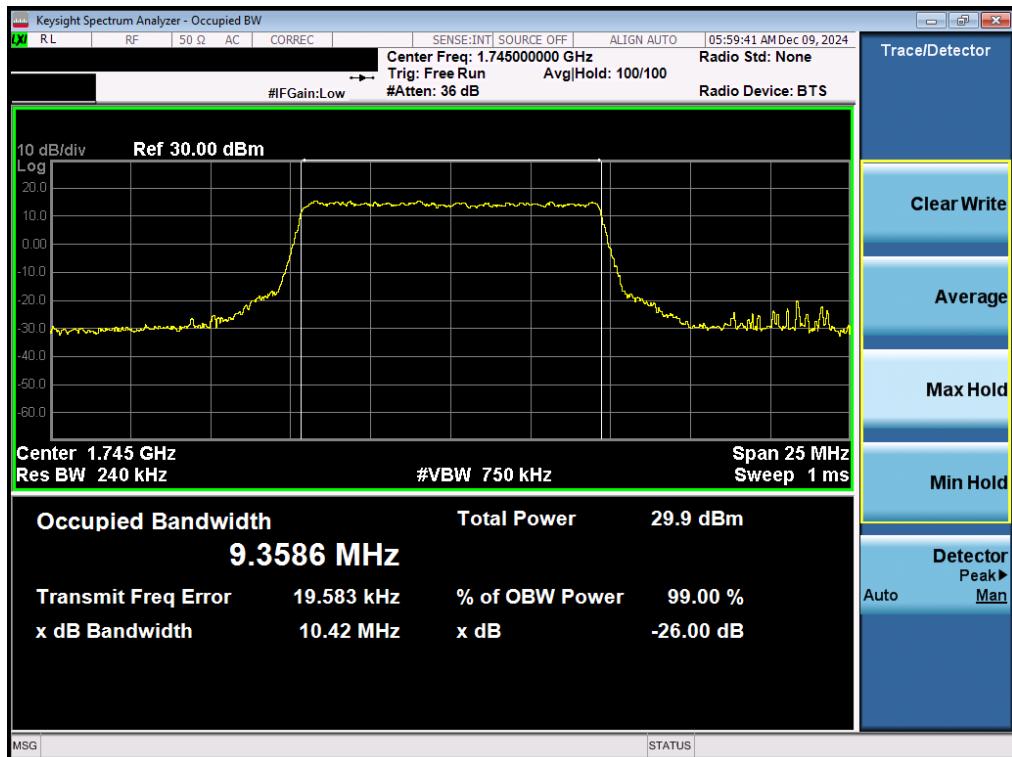


Plot 7-110. Occupied Bandwidth Plot (NR Band n66 - 15.0MHz CP-OFDM 16QAM - Full RB – Ant 1)

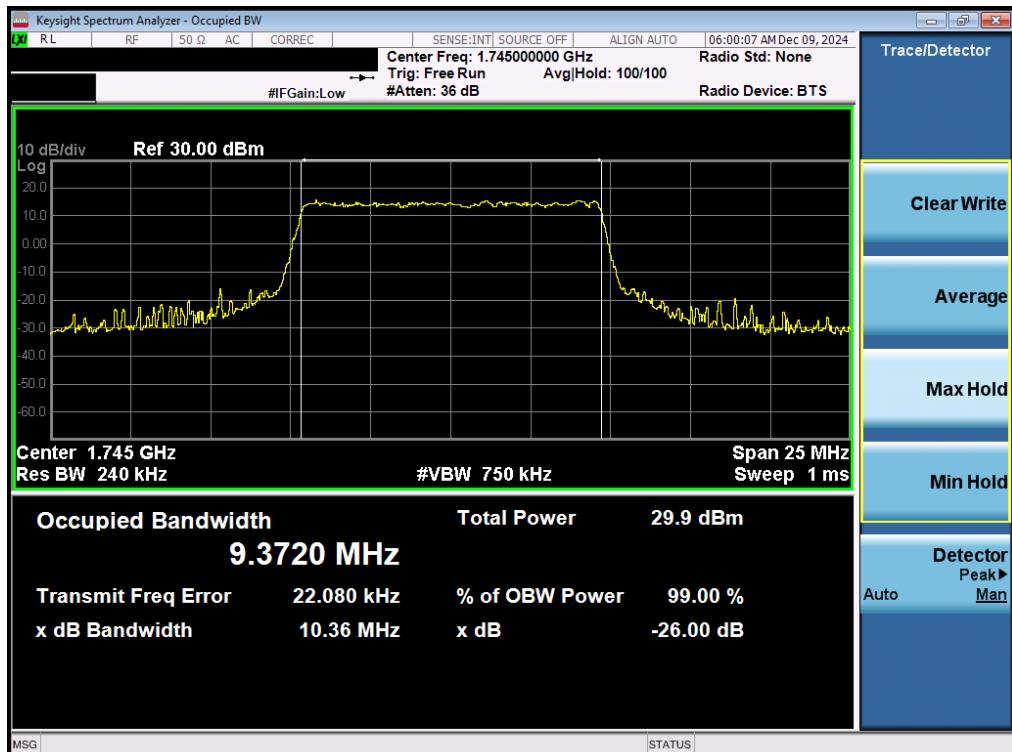


Plot 7-111. Occupied Bandwidth Plot (NR Band n66 - 10.0MHz DFT-s-OFDM BPSK - Full RB – Ant 1)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-03-R3.C3K	Test Dates: 12/3/2024 - 2/14/2025	EUT Type: Full Modular	Page 83 of 205

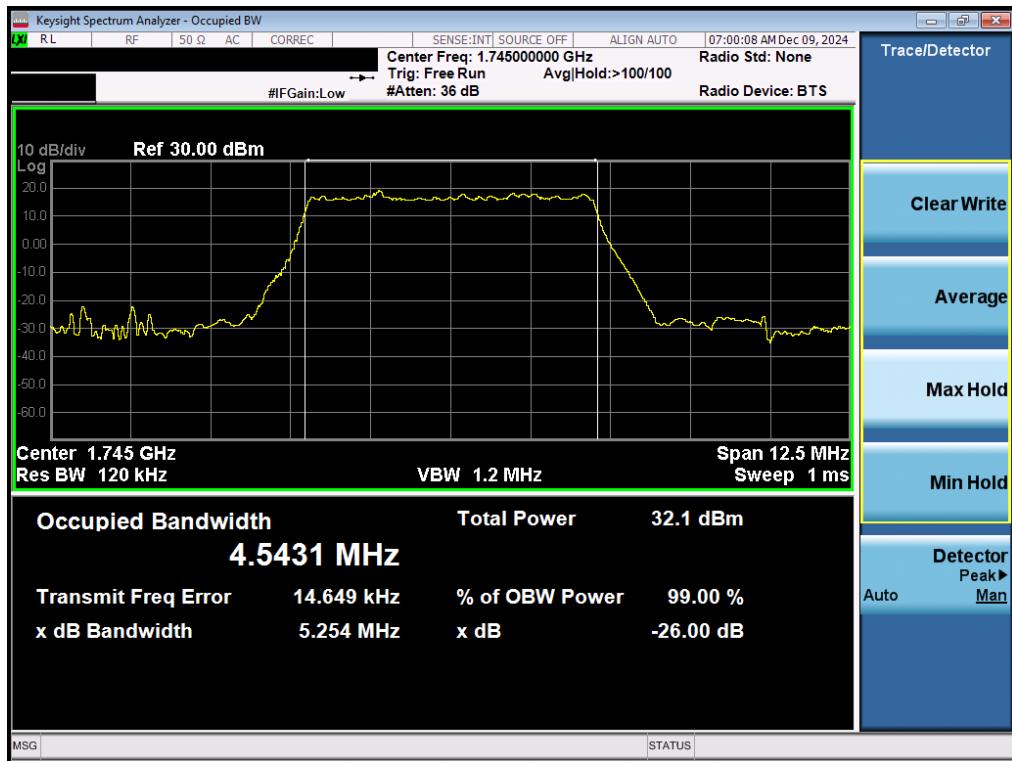


Plot 7-112. Occupied Bandwidth Plot (NR Band n66 - 10.0MHz CP-OFDM QPSK - Full RB – Ant 1)

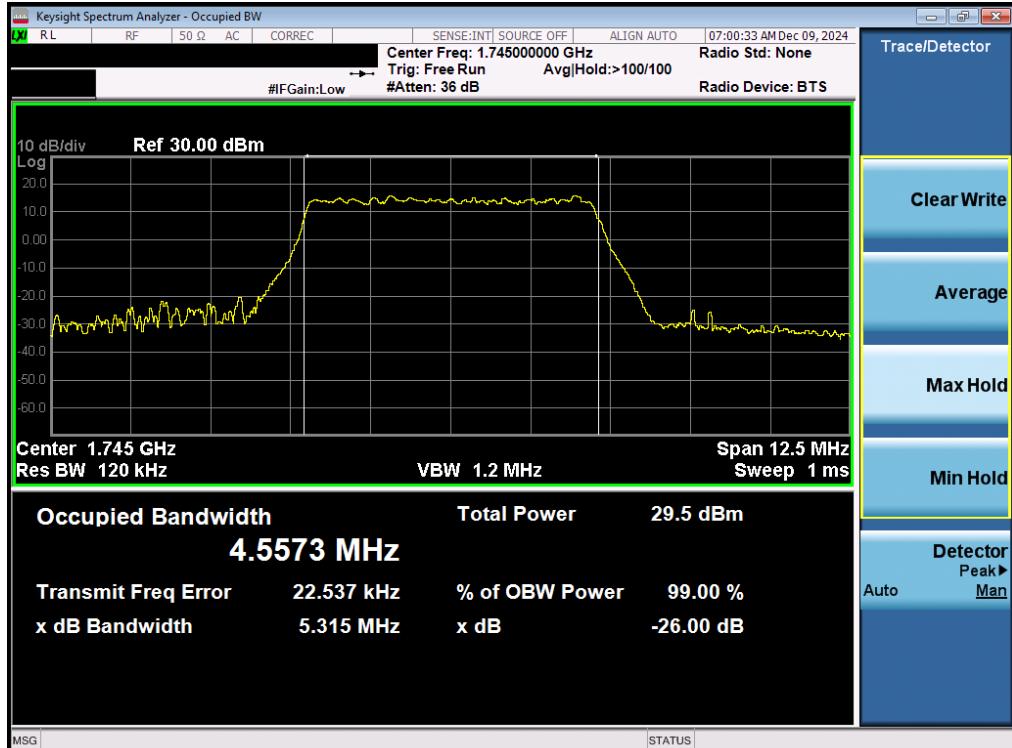


Plot 7-113. Occupied Bandwidth Plot (NR Band n66 - 10.0MHz CP-OFDM 16QAM - Full RB – Ant 1)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-03-R3.C3K	Test Dates: 12/3/2024 - 2/14/2025	EUT Type: Full Modular	Page 84 of 205

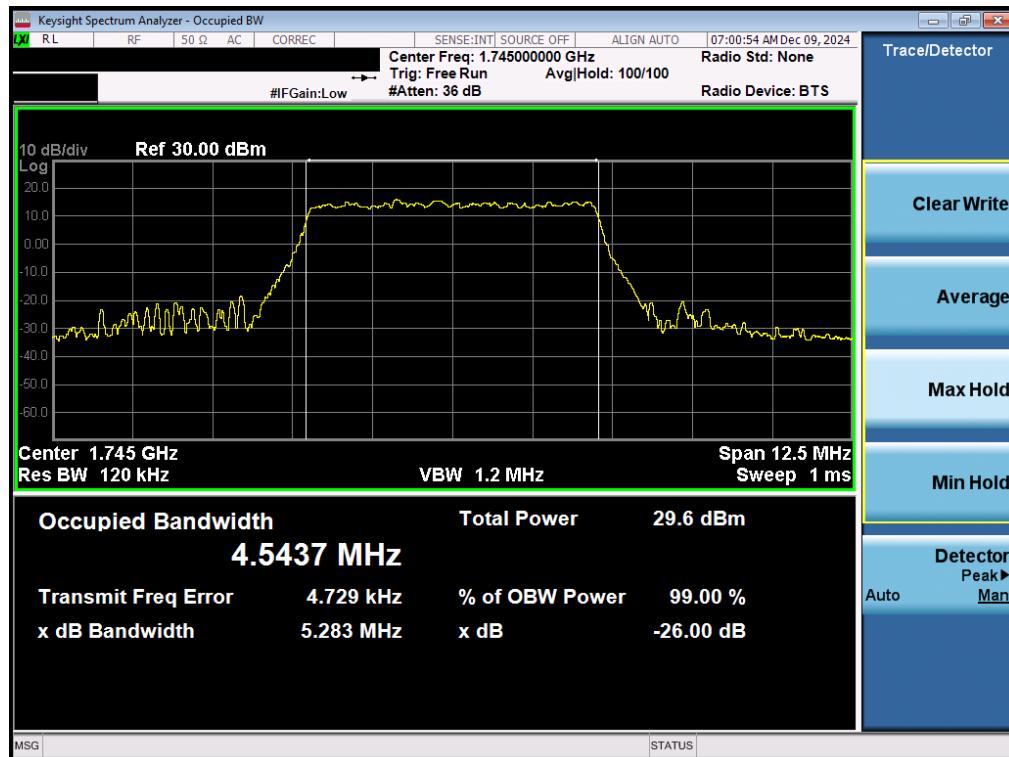


Plot 7-114. Occupied Bandwidth Plot (NR Band n66 - 5.0MHz DFT-s-OFDM BPSK - Full RB – Ant 1)



Plot 7-115. Occupied Bandwidth Plot (NR Band n66 - 5.0MHz CP-OFDM QPSK - Full RB – Ant 1)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-03-R3.C3K	Test Dates: 12/3/2024 - 2/14/2025	EUT Type: Full Modular	Page 85 of 205



Plot 7-116. Occupied Bandwidth Plot (NR Band n66 - 5.0MHz CP-OFDM 16QAM - Full RB – Ant 1)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2411190103-03-R3.C3K	Test Dates: 12/3/2024 - 2/14/2025	EUT Type: Full Modular		Page 86 of 205

7.4 Spurious and Harmonic Emissions at Antenna Terminal

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 10th harmonic. All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

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

Test Procedure Used

ANSI C63.26-2015 – Section 5.7.4

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 x 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.

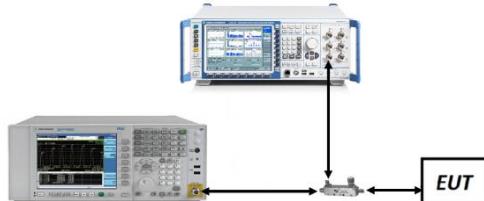


Figure 7-3. Test Instrument & Measurement Setup

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.
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.

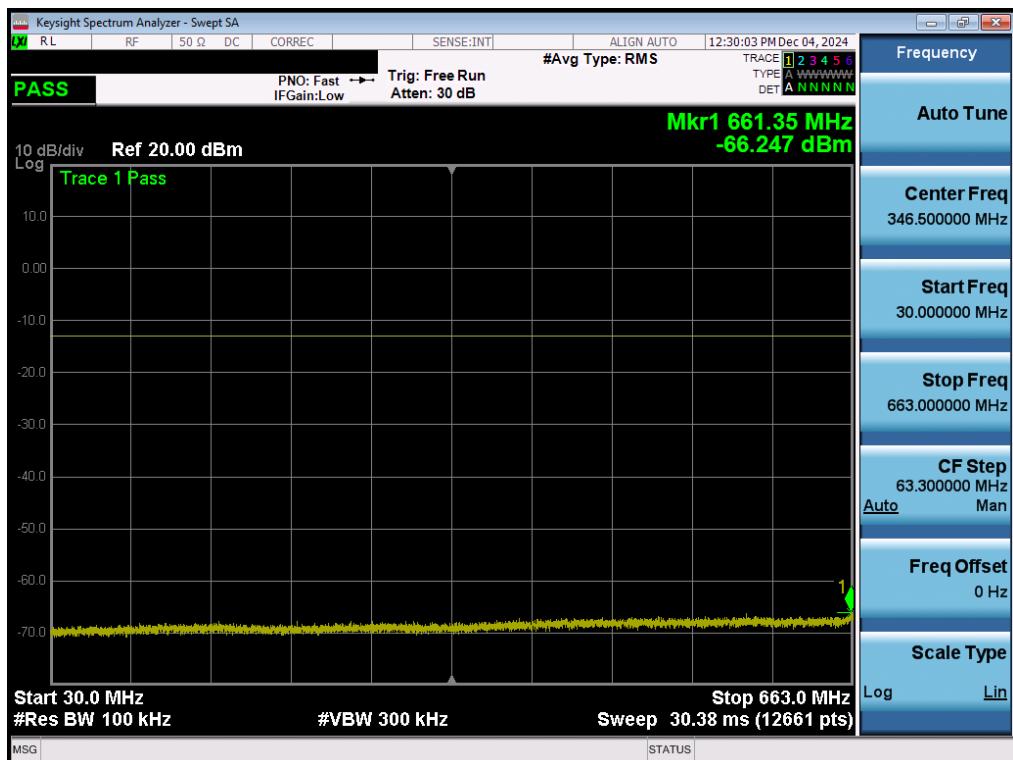
FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-03-R3.C3K	Test Dates: 12/3/2024 - 2/14/2025	EUT Type: Full Modular	Page 87 of 205

Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
LTE Band 71	20 MHz	Low	30.0 - 662.0	-61.83	-13	-48.83
		Low	698.0 - 1000.0	-65.44	-13	-52.44
		Low	1000.0 - 10000.0	-41.21	-13	-28.21
		Mid	30.0 - 663.0	-66.25	-13	-53.25
		Mid	698.0 - 1000.0	-65.70	-13	-52.70
		Mid	1000.0 - 10000.0	-41.31	-13	-28.31
		High	30.0 - 663.0	-65.89	-13	-52.89
		High	699.0 - 1000.0	-61.93	-13	-48.93
		High	1000.0 - 10000.0	-41.39	-13	-28.39
LTE Band 12	10 MHz	Low	30.0 - 697.9	-45.88	-13	-32.88
		Low	716.0 - 1000.0	-65.73	-13	-52.73
		Low	1000.0 - 10000.0	-41.00	-13	-28.00
		Mid	30.0 - 698.0	-57.22	-13	-44.22
		Mid	716.0 - 1000.0	-64.93	-13	-51.93
		Mid	1000.0 - 10000.0	-47.25	-13	-34.25
		High	30.0 - 697.9	-62.39	-13	-49.39
		High	716.1 - 1000.0	-57.43	-13	-44.43
		High	1000.0 - 10000.0	-41.23	-13	-28.23
LTE Band 13	10 MHz	Mid	30.0 - 777.0	-65.69	-35	-30.69
		Mid	787.0 - 1000.0	-66.46	-13	-53.46
		Mid	1000.0 - 20000.0	-41.09	-13	-28.09
NR Band n71	20 MHz	Low	30.0 - 663.0	-60.78	-13	-47.78
		Low	698.0 - 1000.0	-60.26	-13	-47.26
		Low	1000.0 - 10000.0	-39.48	-13	-26.48
		Mid	30.0 - 663.0	-61.39	-13	-48.39
		Mid	698.0 - 1000.0	-60.17	-13	-47.17
		Mid	1000.0 - 10000.0	-39.38	-13	-26.38
		High	30.0 - 663.0	-61.50	-13	-48.50
		High	698.0 - 1000.0	-60.23	-13	-47.23
		High	1000.0 - 10000.0	-39.28	-13	-26.28
NR Band n12	15 MHz	Low	30.0 - 698.0	-60.52	-13	-47.52
		Low	716.0 - 1000.0	-60.26	-13	-47.26
		Low	1000.0 - 10000.0	-39.26	-13	-26.26
		Mid	30.0 - 698.0	-60.81	-13	-47.81
		Mid	716.0 - 1000.0	-60.13	-13	-47.13
		Mid	1000.0 - 10000.0	-39.21	-13	-26.21
		High	30.0 - 698.0	-60.21	-13	-47.21
		High	716.0 - 1000.0	-59.54	-13	-46.54
		High	1000.0 - 10000.0	-39.42	-13	-26.42
LTE Band 12 ULCA	10 MHz	Low	30.0 - 697.9	-55.22	-13	-42.22
		Low	699.0 - 716.0	10.92	-	-
		Low	716.0 - 1000.0	-63.90	-13	-50.90
		Low	1000.0 - 10000.0	-43.86	-13	-30.86
		Mid	30.0 - 698.0	-63.57	-13	-50.57
		Mid	699.0 - 716.0	11.48	-	-
		Mid	716.0 - 1000.0	-50.17	-13	-37.17
		Mid	1000.0 - 10000.0	-45.25	-13	-32.25
		High	30.0 - 698.0	-62.39	-13	-49.39
		High	699.0 - 716.0	11.78	-	-
		High	716.1 - 1000.0	-46.15	-13	-33.15
		High	1000.0 - 10000.0	-44.44	-13	-31.44

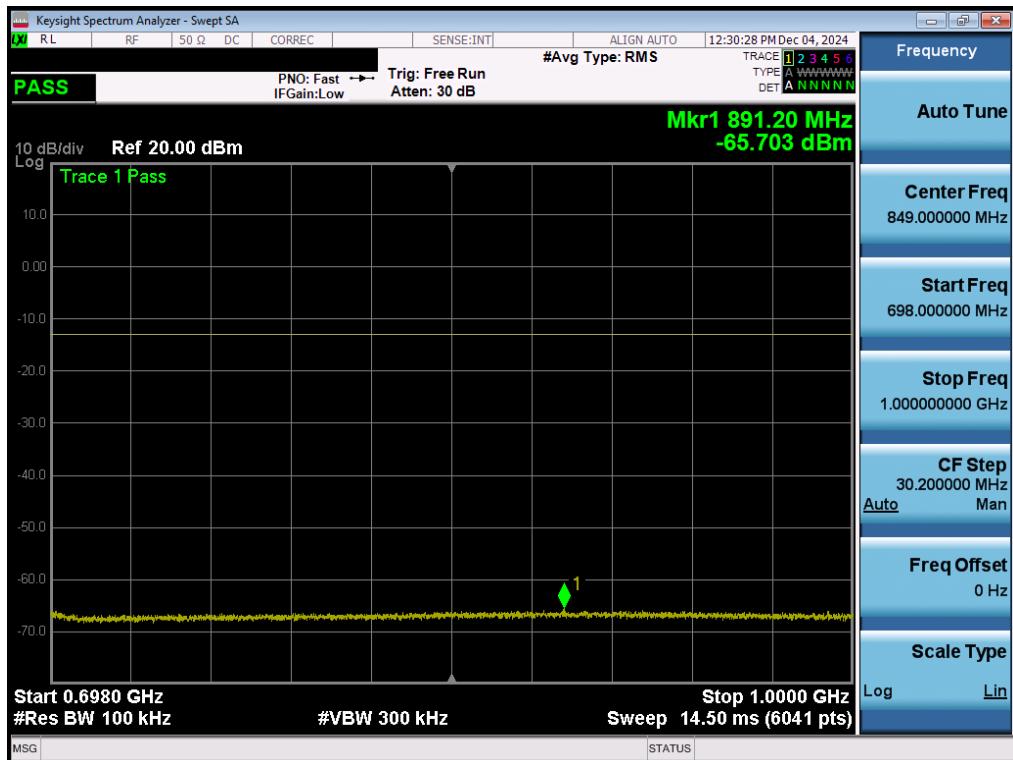
Table 7-23. Spurious Emission Test Results – Ant 5

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT				Approved by: Technical Manager
Test Report S/N: 1M2411190103-R3.C3K	Test Dates: 12/3/2024 - 2/14/2025	EUT Type: Full Modular			

LTE Band 71 – Ant 5

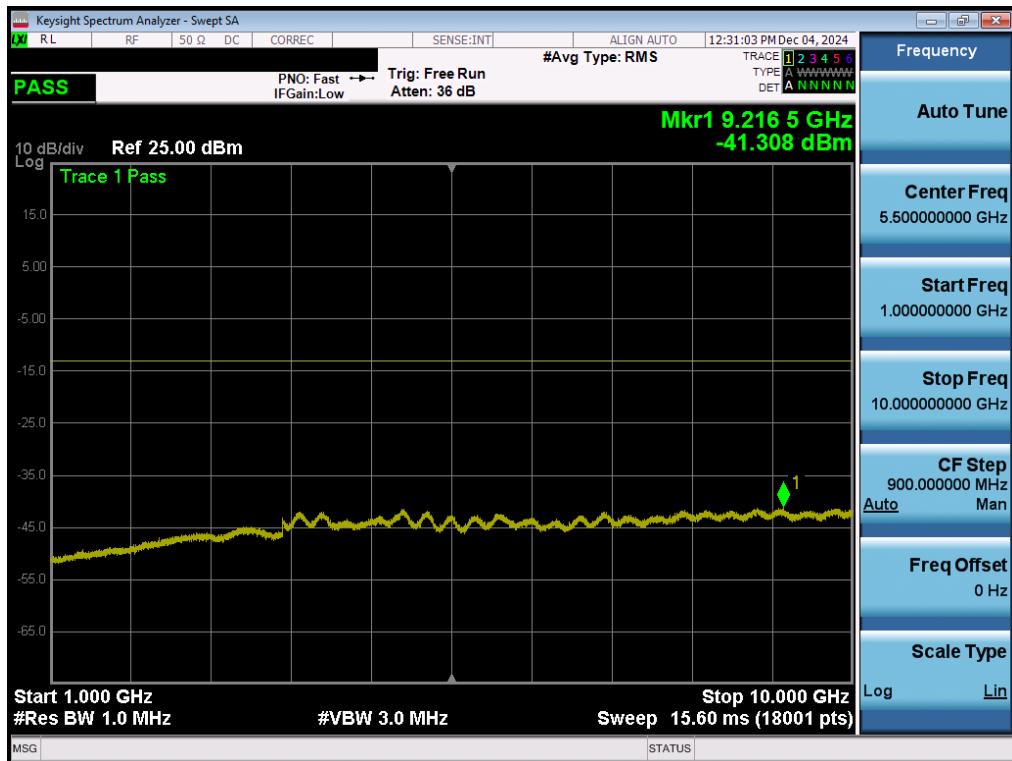


Plot 7-117. Conducted Spurious Plot (LTE Band 71 - 20MHz QPSK - 1 RB - Mid Channel - Ant 5)



Plot 7-118. Conducted Spurious Plot (LTE Band 71 - 20MHz QPSK - 1 RB - Mid Channel - Ant 5)

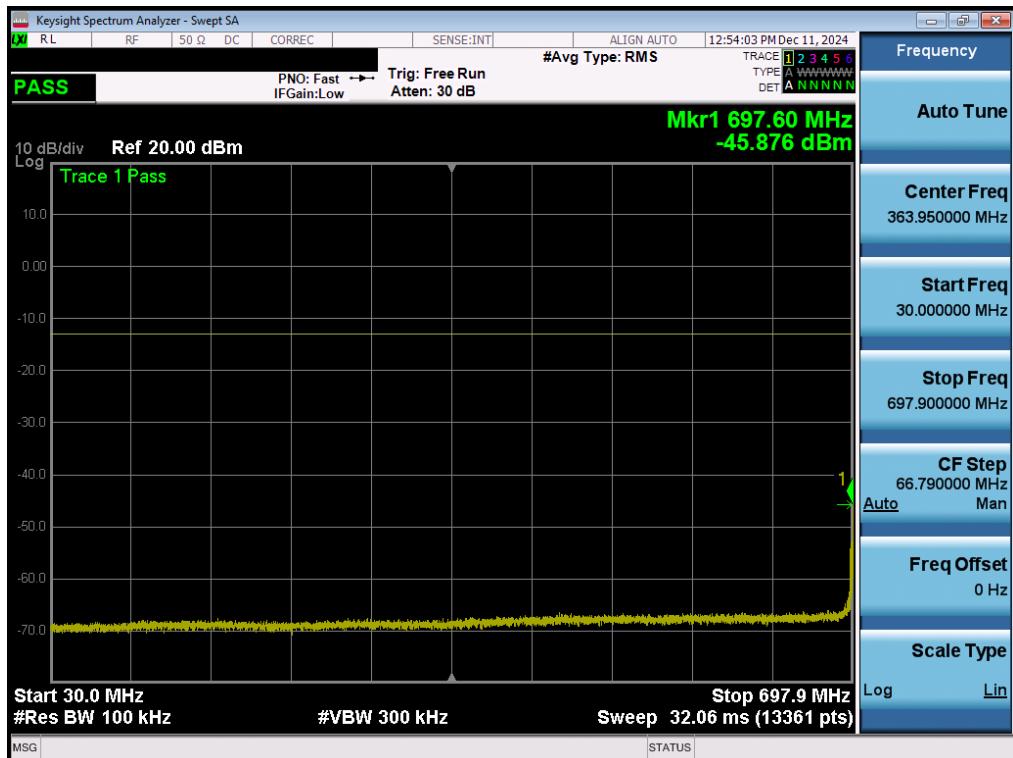
FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-03-R3.C3K	Test Dates: 12/3/2024 - 2/14/2025	EUT Type: Full Modular	Page 89 of 205



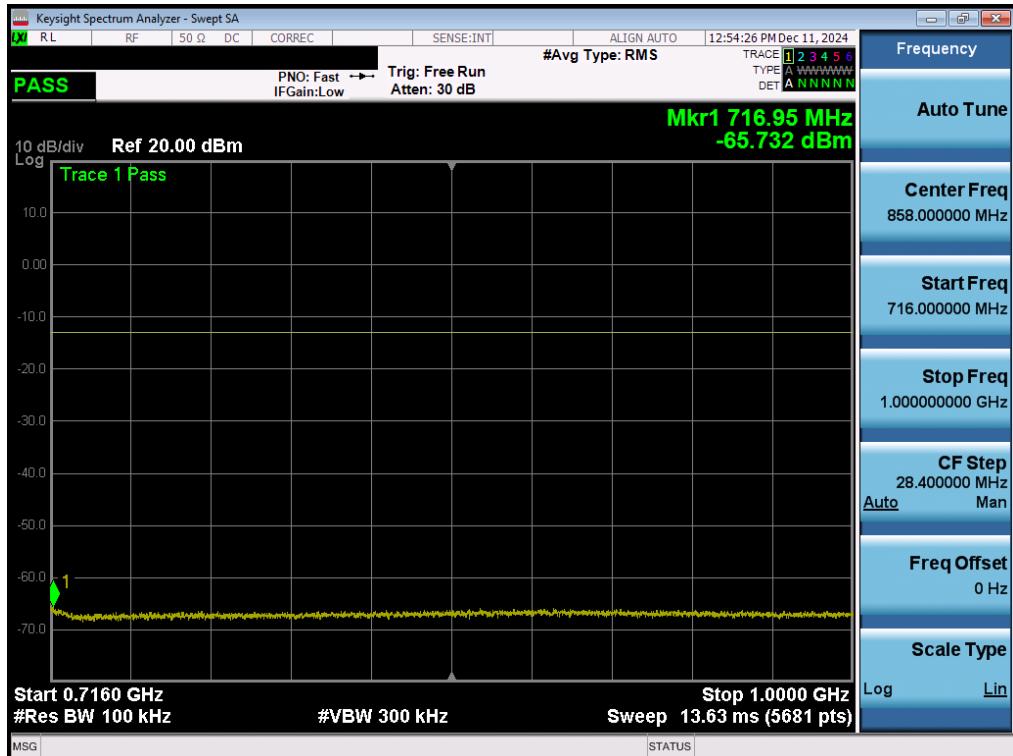
Plot 7-119. Conducted Spurious Plot (LTE Band 71 - 20MHz QPSK - 1 RB - Mid Channel - Ant 5)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-03-R3.C3K	Test Dates: 12/3/2024 - 2/14/2025	EUT Type: Full Modular	Page 90 of 205

LTE Band 12– Ant 5



Plot 7-120. Conducted Spurious Plot (LTE Band 12- 10MHz QPSK - 1 RB - Low Channel - Ant 5)



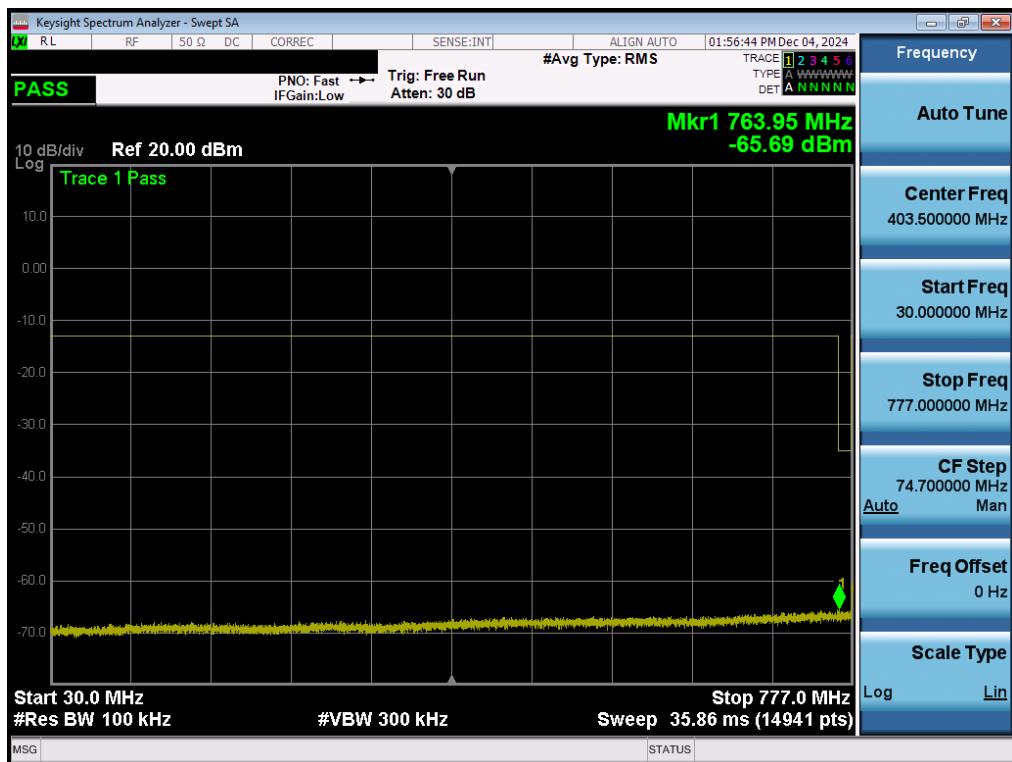
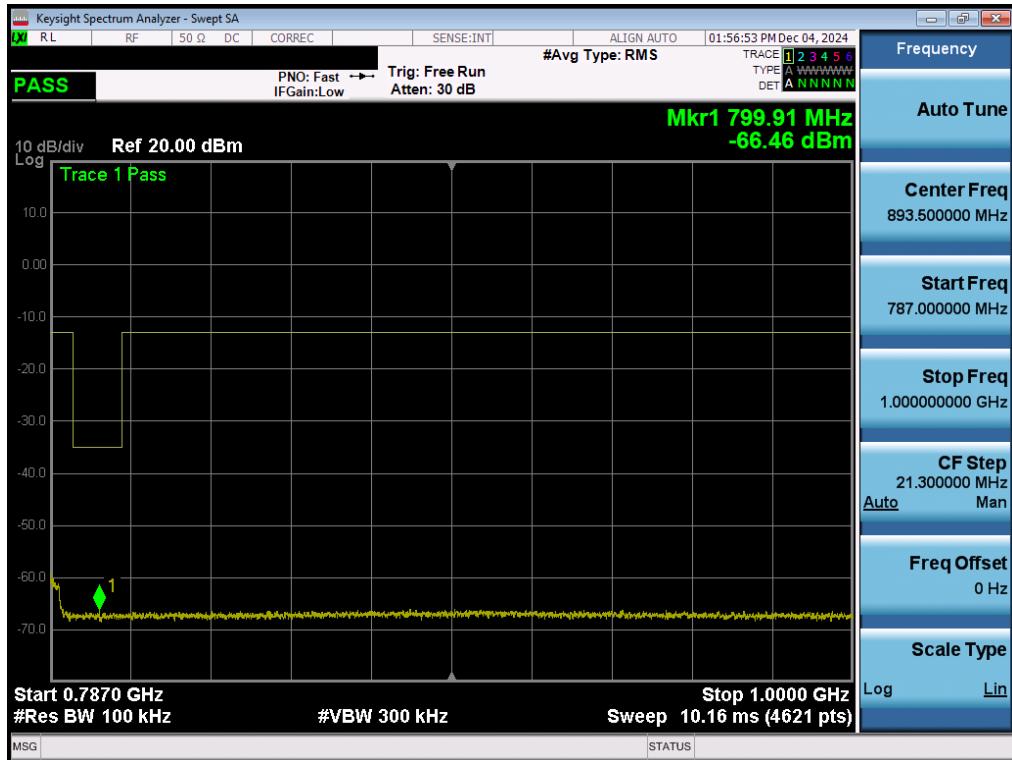
Plot 7-121. Conducted Spurious Plot (LTE Band 12- 10MHz QPSK - 1 RB - Low Channel - Ant 5)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-03-R3.C3K	Test Dates: 12/3/2024 - 2/14/2025	EUT Type: Full Modular	Page 91 of 205

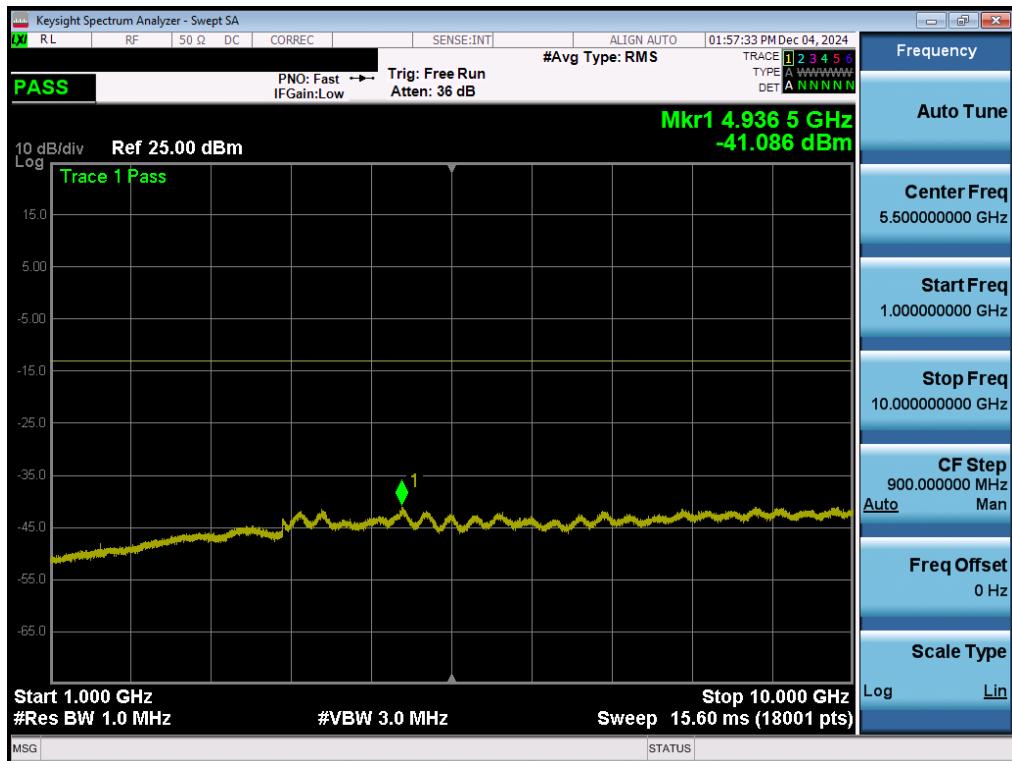


Plot 7-122. Conducted Spurious Plot (LTE Band 12- 10MHz QPSK - 1 RB - Low Channel - Ant 5)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-03-R3.C3K	Test Dates: 12/3/2024 - 2/14/2025	EUT Type: Full Modular	Page 92 of 205

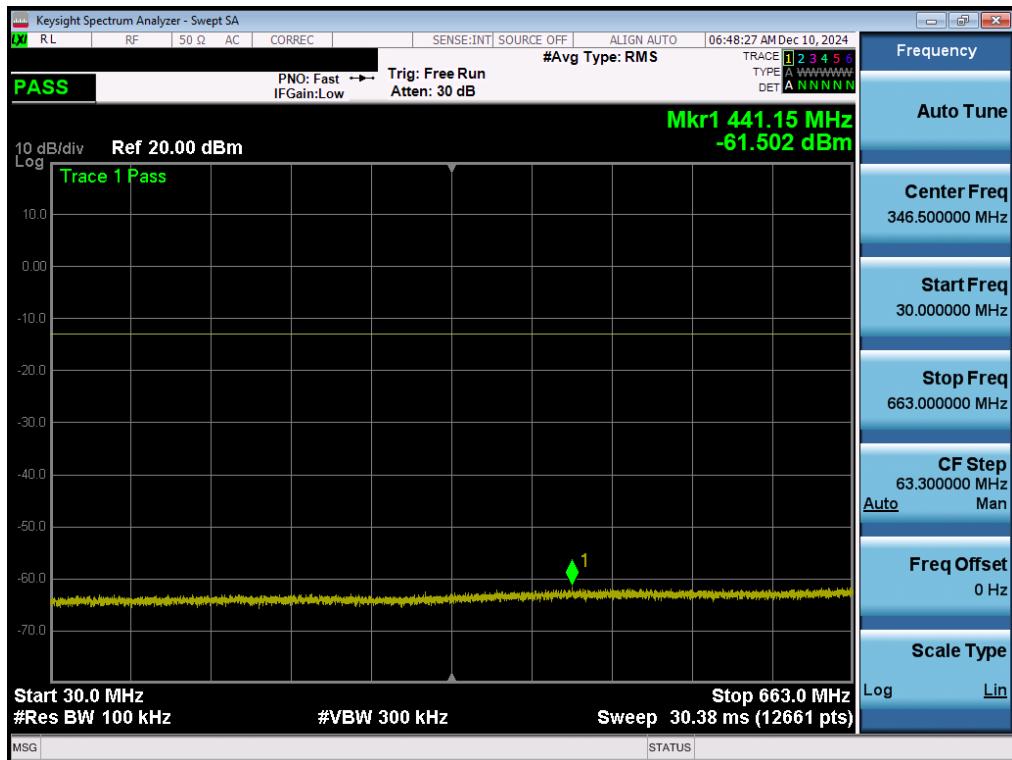
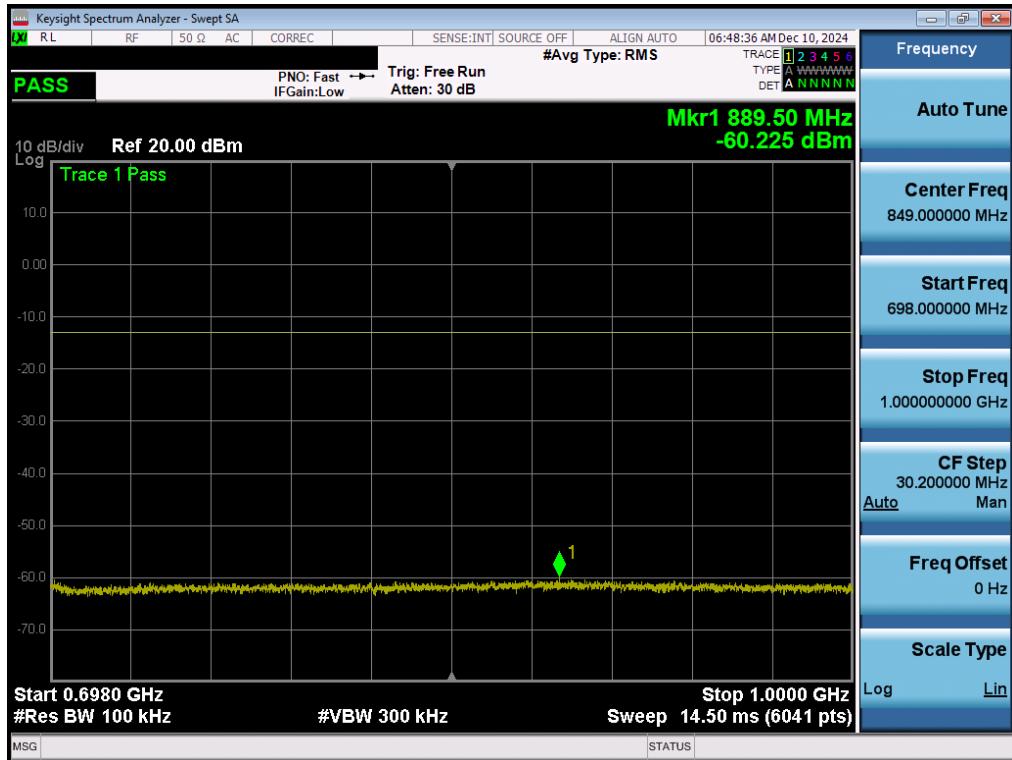
LTE Band 13 – Ant 5

Plot 7-123. Conducted Spurious Plot (LTE Band 13 - 10MHz QPSK - 1 RB)

Plot 7-124. Conducted Spurious Plot (LTE Band 13 - 10MHz QPSK - 1 RB)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2411190103-03-R3.C3K	Test Dates: 12/3/2024 - 2/14/2025	EUT Type: Full Modular		Page 93 of 205

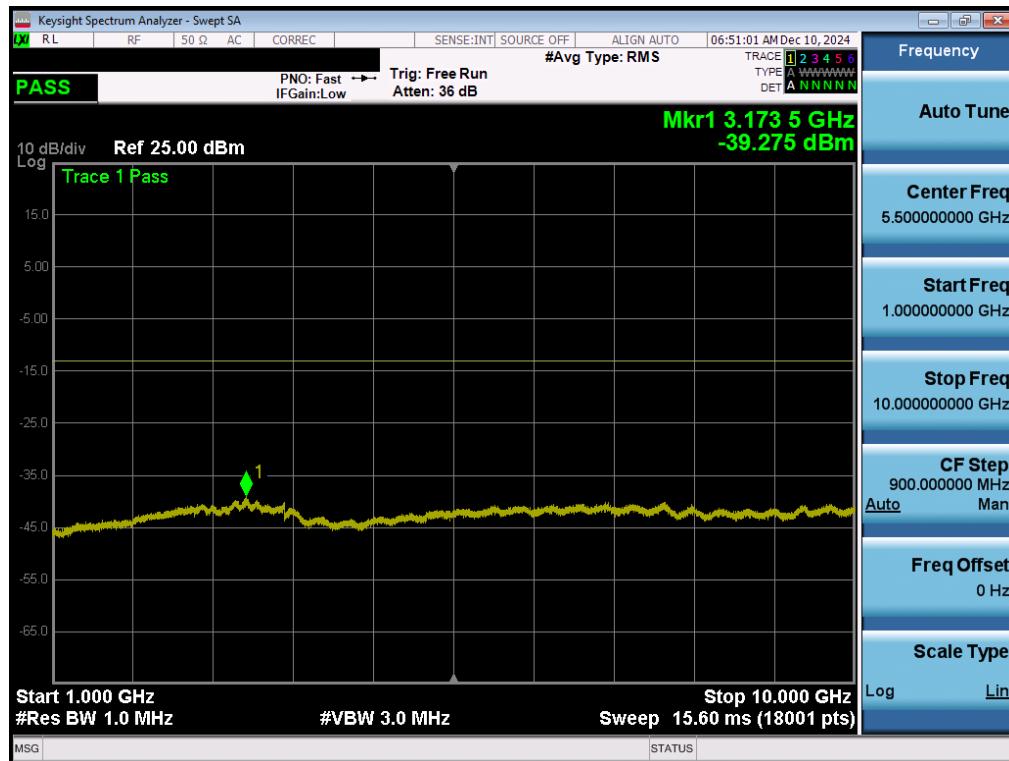


Plot 7-125. Conducted Spurious Plot (LTE Band 13 - 10MHz QPSK - 1 RB)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-03-R3.C3K	Test Dates: 12/3/2024 - 2/14/2025	EUT Type: Full Modular	Page 94 of 205

NR Band n71 – Ant 5

Plot 7-126. Conducted Spurious Plot (NR Band n71 - 20.0MHz - 1 RB - High Channel - Ant 5)

Plot 7-127. Conducted Spurious Plot (NR Band n71 - 20.0MHz - 1 RB - High Channel - Ant 5)

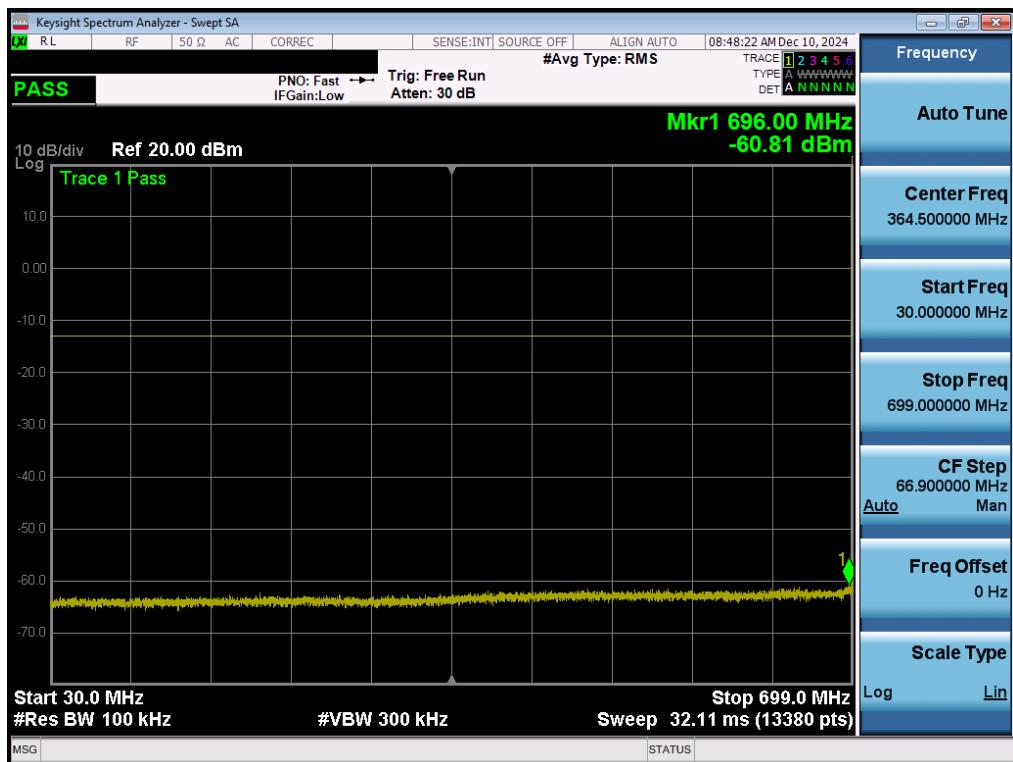
FCC ID: C3K2114	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2411190103-03-R3.C3K	Test Dates: 12/3/2024 - 2/14/2025	EUT Type: Full Modular		Page 95 of 205



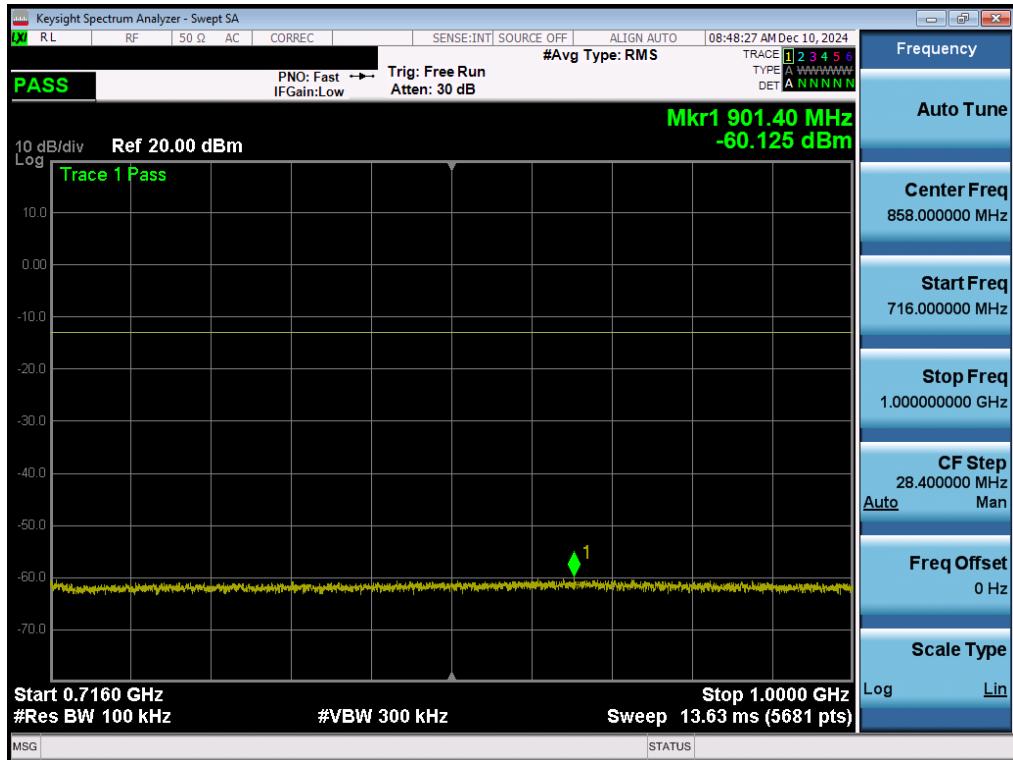
Plot 7-128. Conducted Spurious Plot (NR Band n71 - 20.0MHz - 1 RB - High Channel - Ant 5)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-03-R3.C3K	Test Dates: 12/3/2024 - 2/14/2025	EUT Type: Full Modular	Page 96 of 205

NR Band n12 – Ant 5

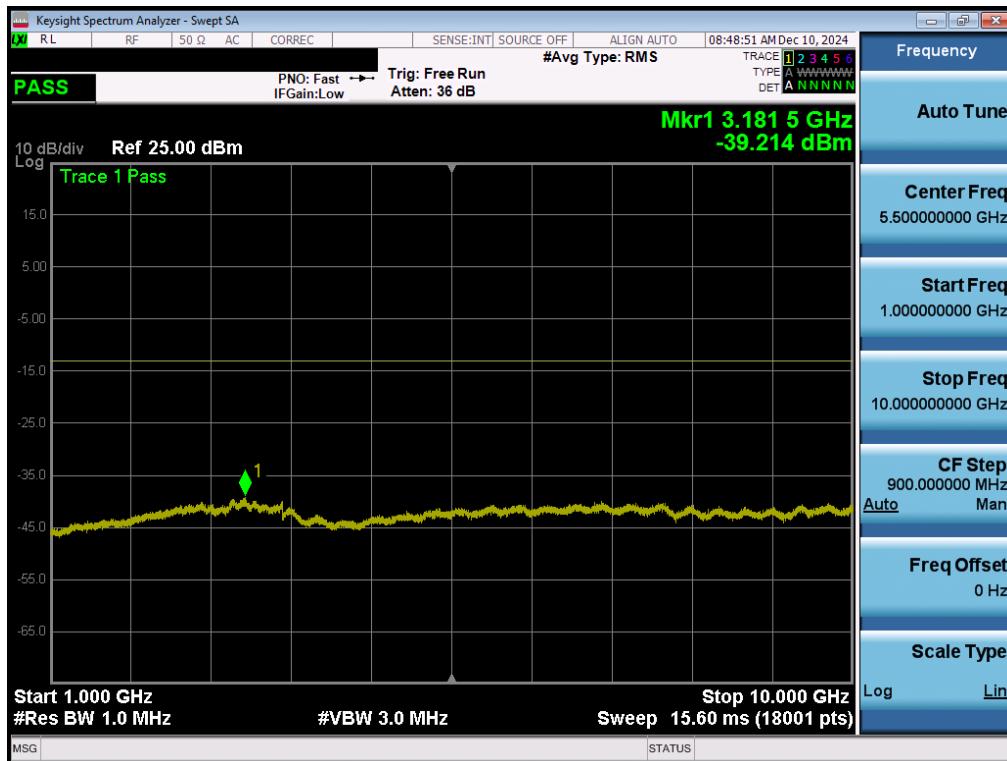


Plot 7-129. Conducted Spurious Plot (NR Band n12 - 15.0MHz - 1 RB - Mid Channel - Ant 5)



Plot 7-130. Conducted Spurious Plot (NR Band n12 - 15.0MHz - 1 RB - Mid Channel - Ant 5)

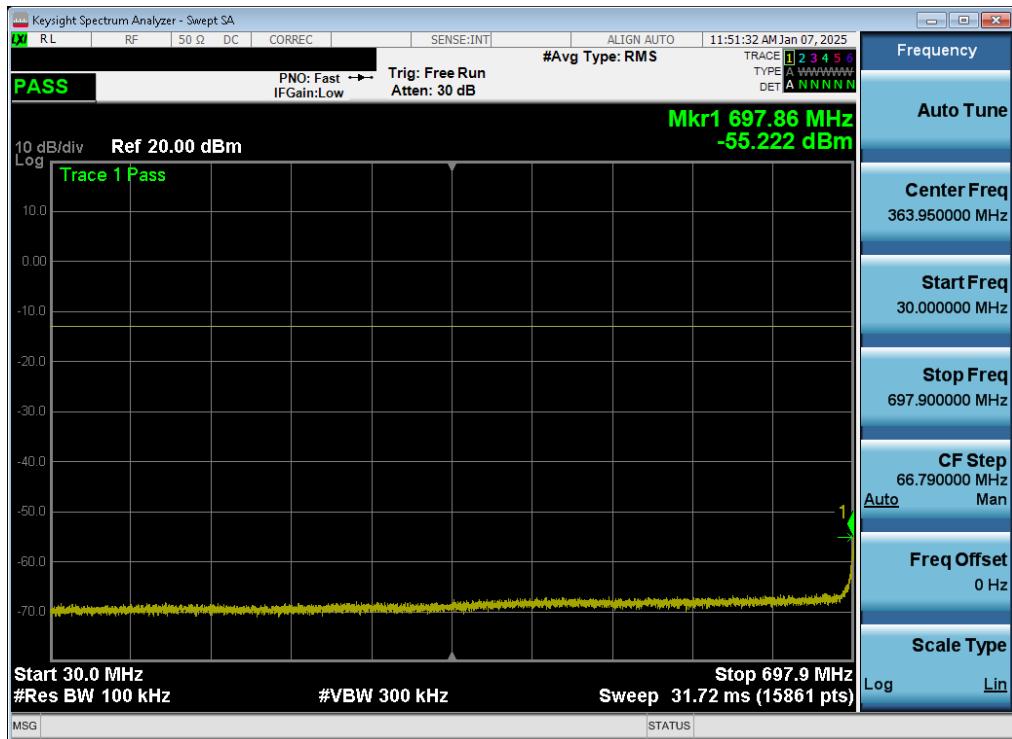
FCC ID: C3K2114	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2411190103-03-R3.C3K	Test Dates: 12/3/2024 - 2/14/2025	EUT Type: Full Modular		Page 97 of 205



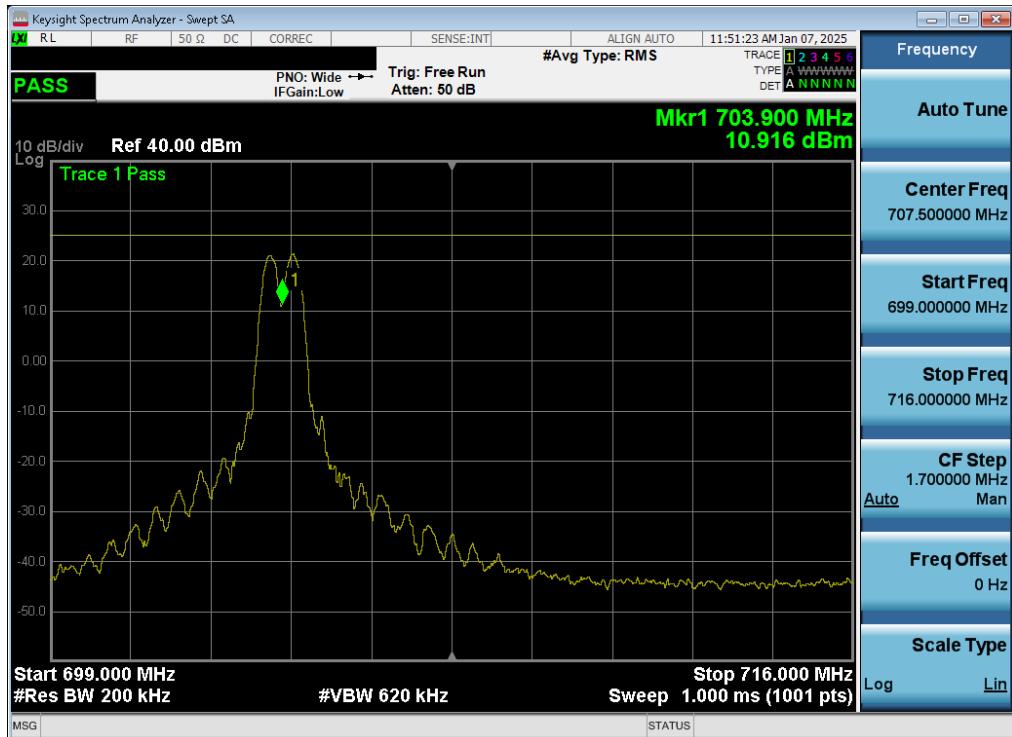
Plot 7-131. Conducted Spurious Plot (NR Band n12 - 15.0MHz - 1 RB - Mid Channel - Ant 5)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-03-R3.C3K	Test Dates: 12/3/2024 - 2/14/2025	EUT Type: Full Modular	Page 98 of 205

LTE Band 12 ULCA – Ant 5

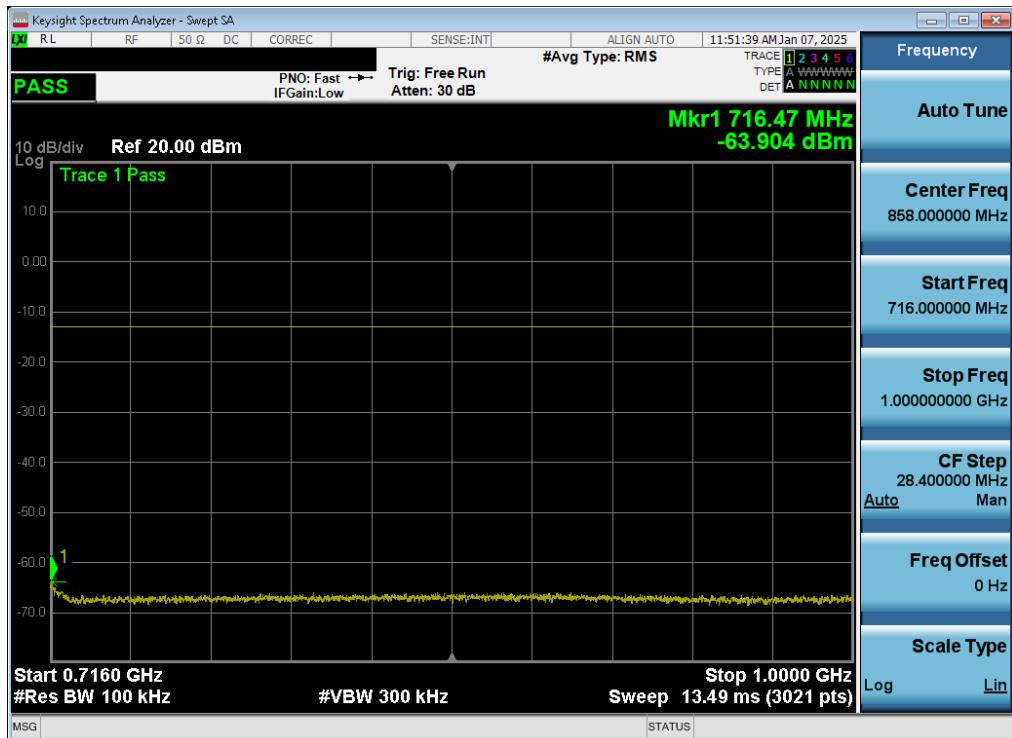


Plot 7-132. Conducted Spurious Plot (LTE Band 12- 5+5MHz QPSK - PCC 1/99 SCC 1/0 - Low Channel - Ant 5)

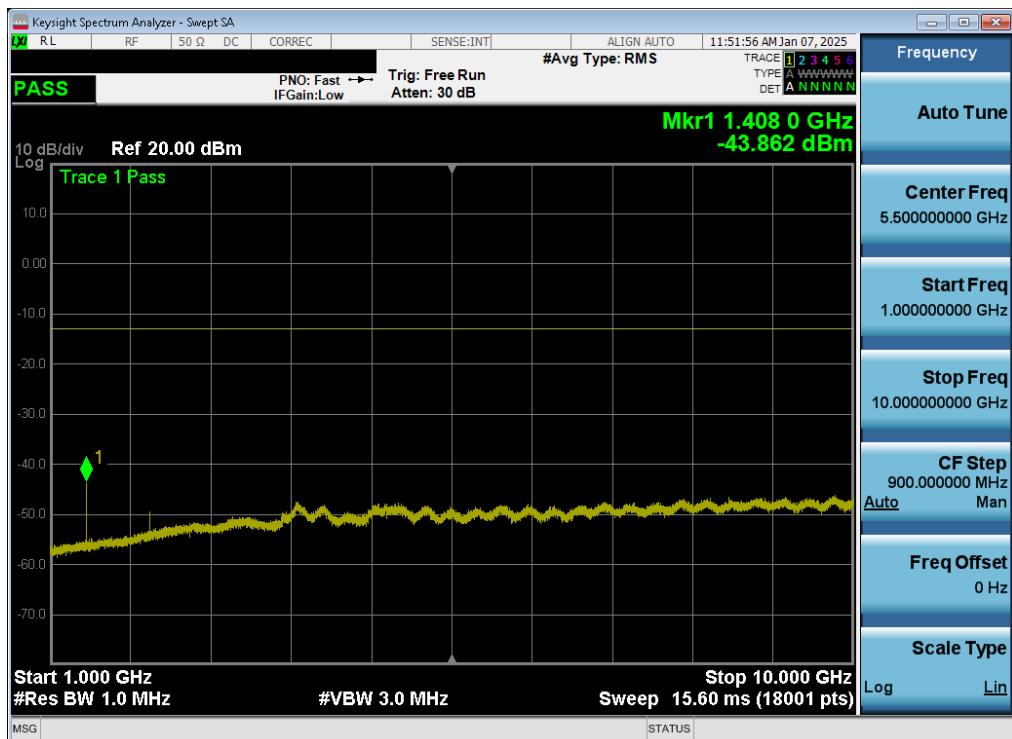


Plot 7-133. Conducted Spurious Plot (LTE Band 12- 5+5MHz QPSK - PCC 1/99 SCC 1/0 - Low Channel - Ant 5)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-03-R3.C3K	Test Dates: 12/3/2024 - 2/14/2025	EUT Type: Full Modular	Page 99 of 205



Plot 7-134. Conducted Spurious Plot (LTE Band 12- 5+5MHz QPSK - PCC 1/99 SCC 1/0 - Low Channel - Ant 5)



Plot 7-135. Conducted Spurious Plot (LTE Band 12- 5+5MHz QPSK - PCC 1/99 SCC 1/0 - Low Channel - Ant 5)

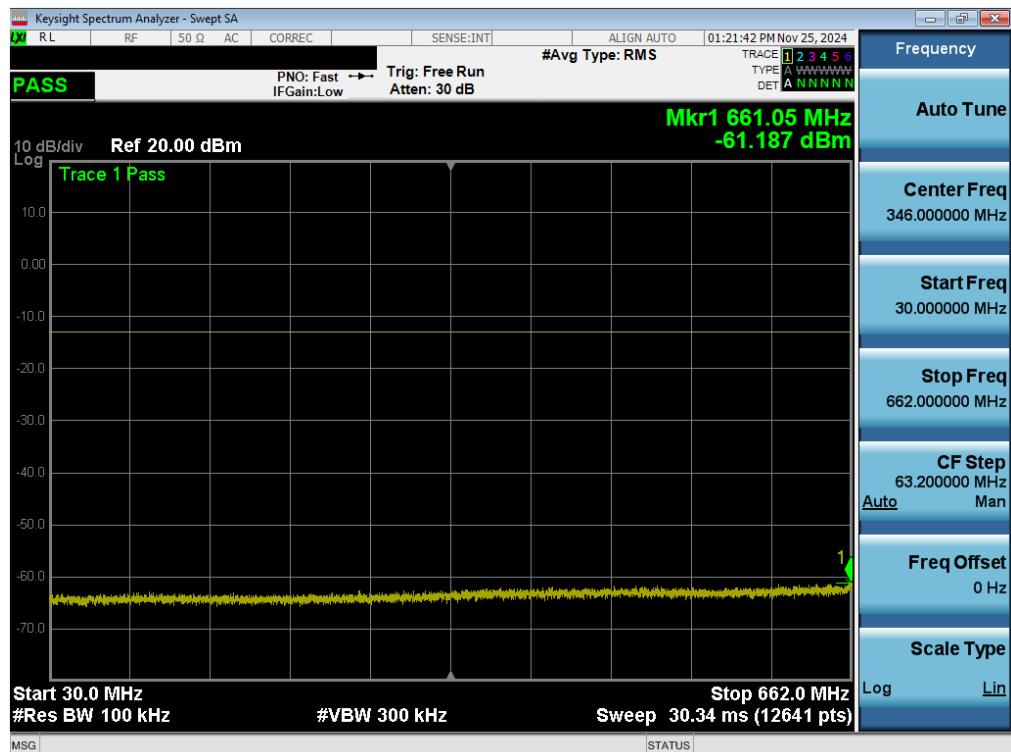
FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-03-R3.C3K	Test Dates: 12/3/2024 - 2/14/2025	EUT Type: Full Modular	Page 100 of 205

Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
LTE Band 71	20 MHz	Low	30.0 - 662.0	-61.19	-13	-48.19
		Low	698.0 - 1000.0	-60.73	-13	-47.73
		Low	1000.0 - 10000.0	-38.52	-13	-25.52
		Mid	30.0 - 663.0	-61.50	-13	-48.50
		Mid	698.0 - 1000.0	-60.57	-13	-47.57
		Mid	1000.0 - 10000.0	-38.63	-13	-25.63
		High	30.0 - 663.0	-55.86	-13	-42.86
		High	699.0 - 1000.0	-60.67	-13	-47.67
		High	1000.0 - 10000.0	-38.64	-13	-25.64
		Low	30.0 - 697.9	-59.85	-13	-46.85
LTE Band 12	10 MHz	Low	716.0 - 1000.0	-61.35	-13	-48.35
		Low	1000.0 - 10000.0	-37.96	-13	-24.96
		Mid	30.0 - 698.0	-61.23	-13	-48.23
		Mid	716.0 - 1000.0	-61.19	-13	-48.19
		Mid	1000.0 - 10000.0	-38.14	-13	-25.14
		High	30.0 - 697.9	-61.55	-13	-48.55
		High	716.1 - 1000.0	-58.65	-13	-45.65
		High	1000.0 - 10000.0	-37.76	-13	-24.76
LTE Band 13	10 MHz	Mid	30.0 - 777.0	-60.98	-35	-25.98
		Mid	787.0 - 10000.0	-62.11	-13	-49.11
		Mid	1000.0 - 20000.0	-37.78	-13	-24.78
NR Band n71	20 MHz	Low	30.0 - 663.0	-60.00	-13	-47.00
		Low	698.0 - 1000.0	-60.52	-13	-47.52
		Low	1000.0 - 10000.0	-39.64	-13	-26.64
		Mid	30.0 - 663.0	-61.48	-13	-48.48
		Mid	698.0 - 1000.0	-60.26	-13	-47.26
		Mid	1000.0 - 10000.0	-39.46	-13	-26.46
		High	30.0 - 663.0	-61.61	-13	-48.61
		High	698.0 - 1000.0	-60.17	-13	-47.17
		High	1000.0 - 10000.0	-39.55	-13	-26.55
NR Band n12	15 MHz	Low	30.0 - 698.0	-60.48	-13	-47.48
		Low	716.0 - 1000.0	-60.33	-13	-47.33
		Low	1000.0 - 10000.0	-39.55	-13	-26.55
		Mid	30.0 - 698.0	-60.75	-13	-47.75
		Mid	716.0 - 1000.0	-60.31	-13	-47.31
		Mid	1000.0 - 10000.0	-39.55	-13	-26.55
		High	30.0 - 698.0	-60.71	-13	-47.71
		High	716.0 - 1000.0	-60.15	-13	-47.15
		High	1000.0 - 10000.0	-39.52	-13	-26.52
LTE Band 12 ULCA	10 MHz	Low	30.0 - 697.9	-54.84	-13	-41.84
		Low	699.0 - 716.0	11.29	-	-
		Low	716.0 - 1000.0	-64.30	-13	-51.30
		Low	1000.0 - 10000.0	-43.93	-13	-30.93
		Mid	30.0 - 698.0	-63.41	-13	-50.41
		Mid	699.0 - 716.0	10.88	-	-
		Mid	716.0 - 1000.0	-52.03	-13	-39.03
		Mid	1000.0 - 10000.0	-45.46	-13	-32.46
		High	30.0 - 698.0	-64.46	-13	-51.46
		High	699.0 - 716.0	11.56	-	-
		High	716.1 - 1000.0	-46.61	-13	-33.61
		High	1000.0 - 10000.0	-45.88	-13	-32.88

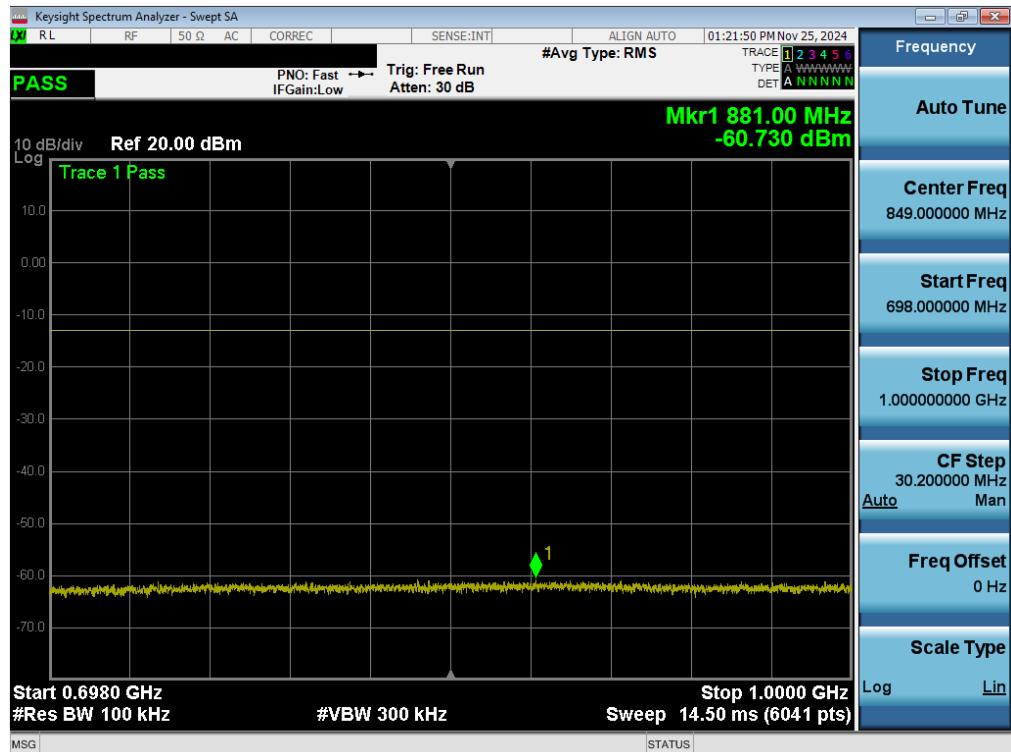
Table 7-24. Spurious Emission Test Results – Ant 2

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT				Approved by: Technical Manager
Test Report S/N: 1M2411190103-R3.C3K	Test Dates: 12/3/2024 - 2/14/2025	EUT Type: Full Modular			

LTE Band 71 – Ant 2



Plot 7-136. Conducted Spurious Plot (LTE Band 71 - 20MHz QPSK - 1 RB - Low Channel - Ant 2)



Plot 7-137. Conducted Spurious Plot (LTE Band 71 - 20MHz QPSK - 1 RB - Low Channel - Ant 2)

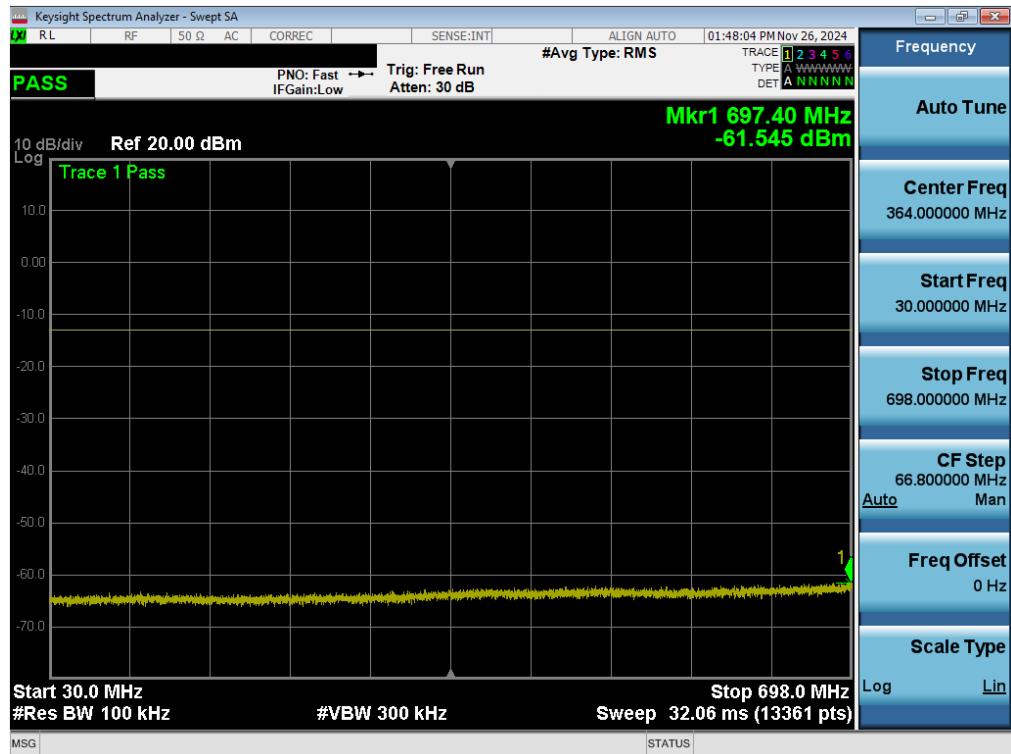
FCC ID: C3K2114	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2411190103-03-R3.C3K	Test Dates: 12/3/2024 - 2/14/2025	EUT Type: Full Modular		Page 102 of 205



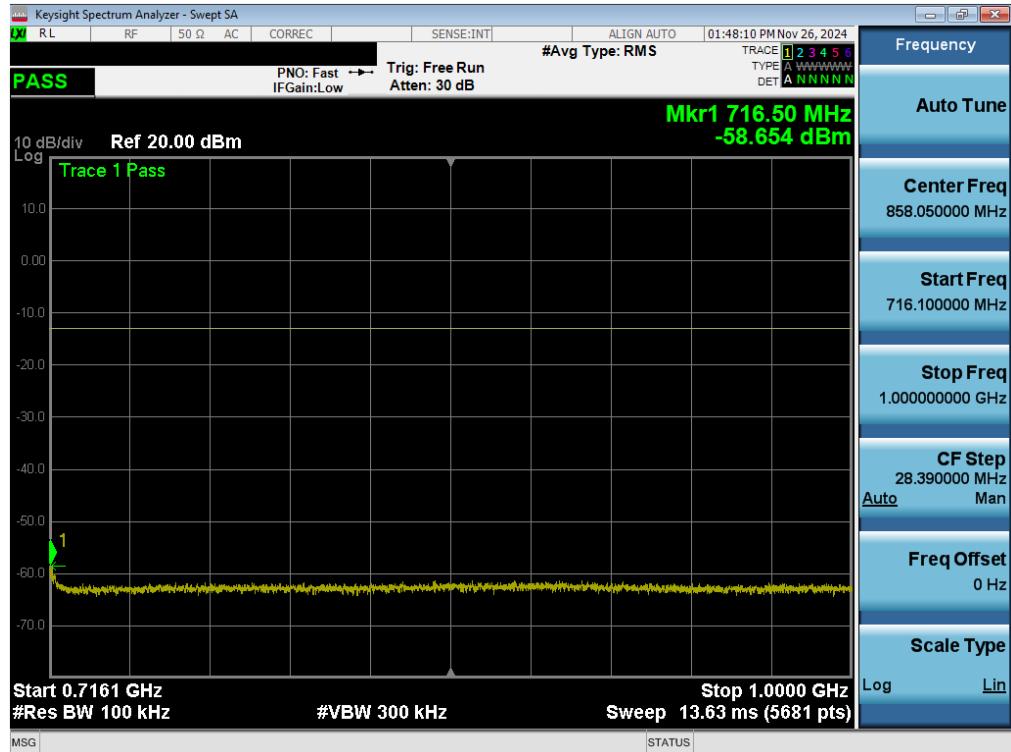
Plot 7-138. Conducted Spurious Plot (LTE Band 71 - 20MHz QPSK - 1 RB - Low Channel - Ant 2)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-03-R3.C3K	Test Dates: 12/3/2024 - 2/14/2025	EUT Type: Full Modular	Page 103 of 205

LTE Band 12 – Ant 2



Plot 7-139. Conducted Spurious Plot (LTE Band 12- 10MHz QPSK - 1 RB - High Channel - Ant 2)



Plot 7-140. Conducted Spurious Plot (LTE Band 12- 10MHz QPSK - 1 RB - High Channel - Ant 2)

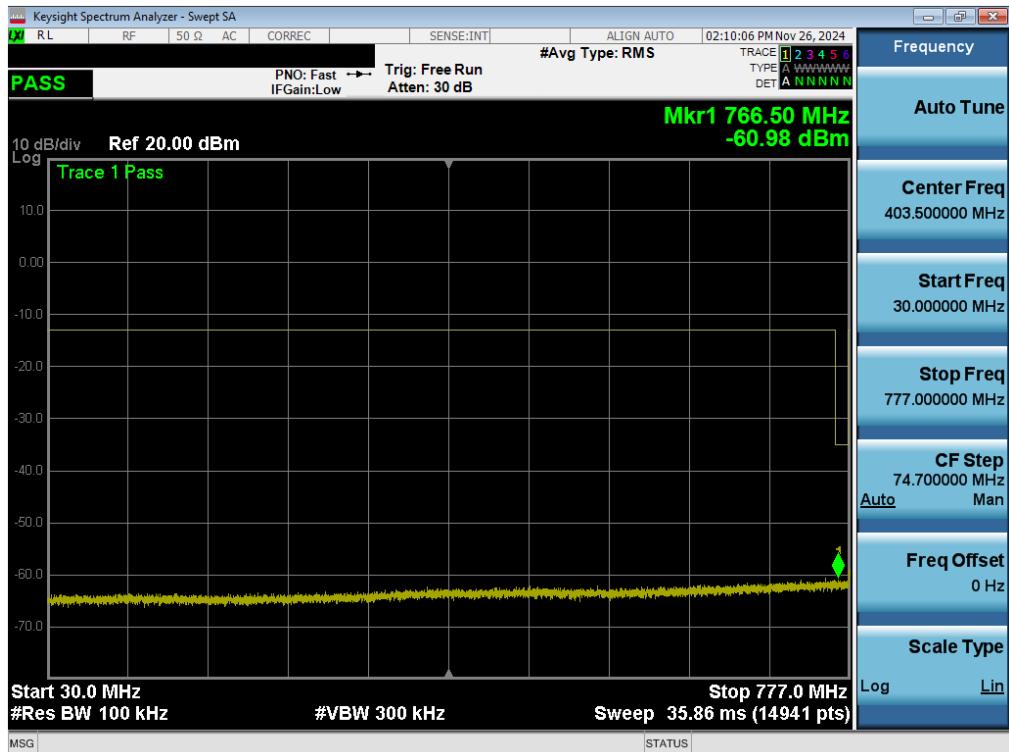
FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-03-R3.C3K	Test Dates: 12/3/2024 - 2/14/2025	EUT Type: Full Modular	Page 104 of 205



Plot 7-141. Conducted Spurious Plot (LTE Band 12- 10MHz QPSK - 1 RB - High Channel - Ant 2)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-03-R3.C3K	Test Dates: 12/3/2024 - 2/14/2025	EUT Type: Full Modular	Page 105 of 205

LTE Band 13 – Ant 2

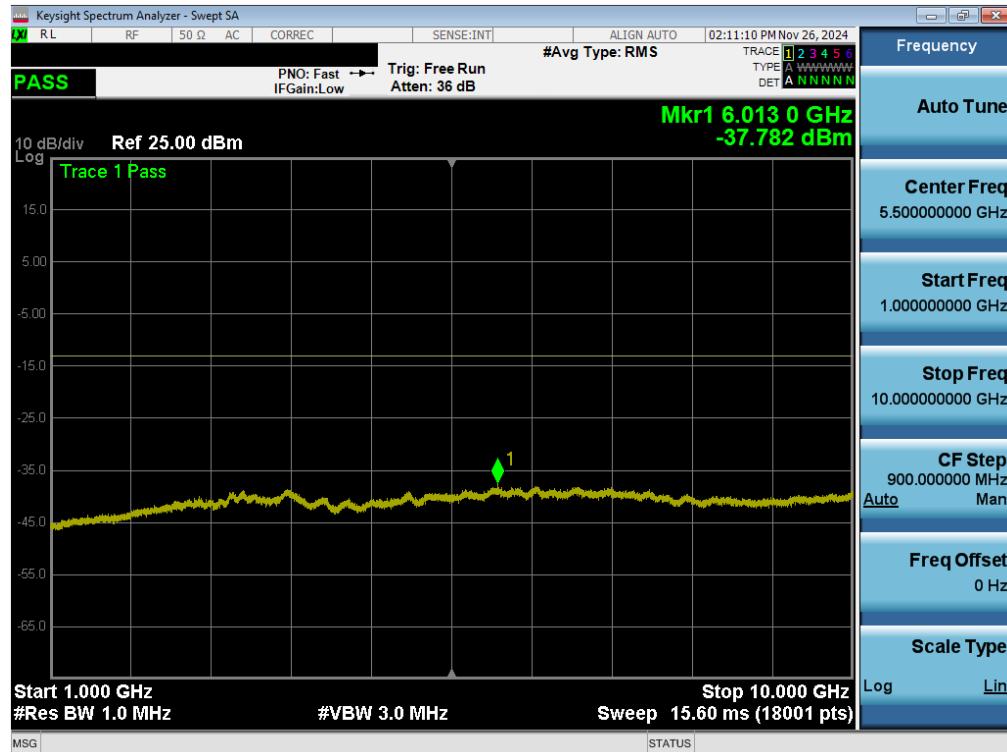


Plot 7-142. Conducted Spurious Plot (LTE Band 13 - 10MHz QPSK - 1 RB - Mid Channel - Ant 2)



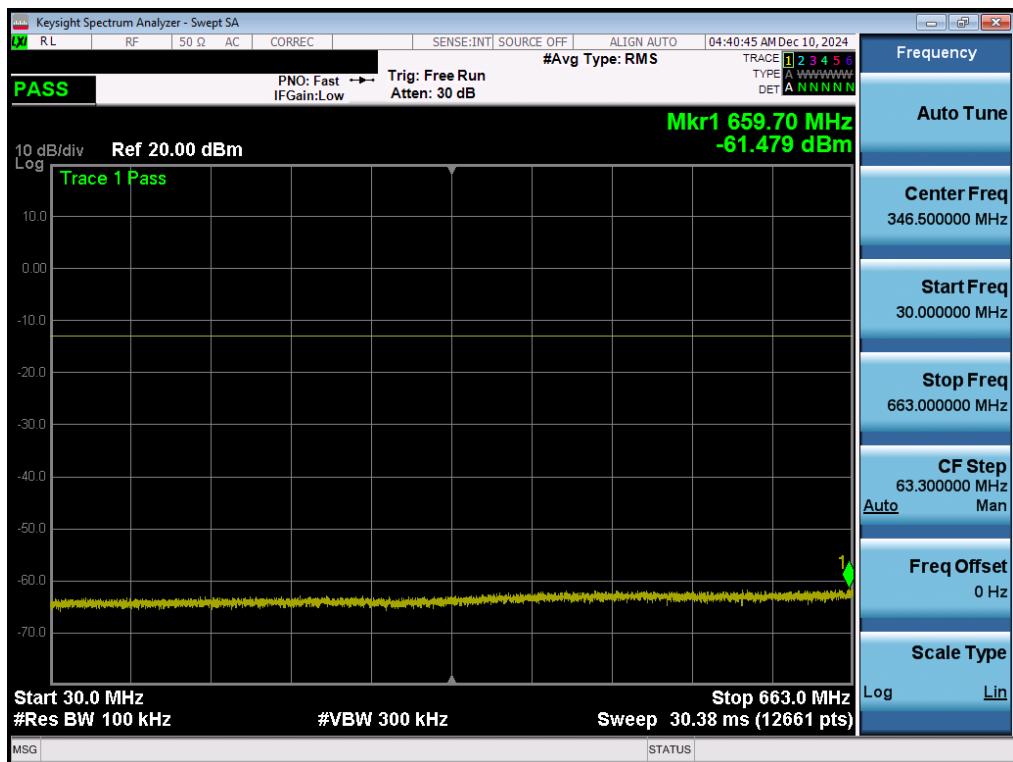
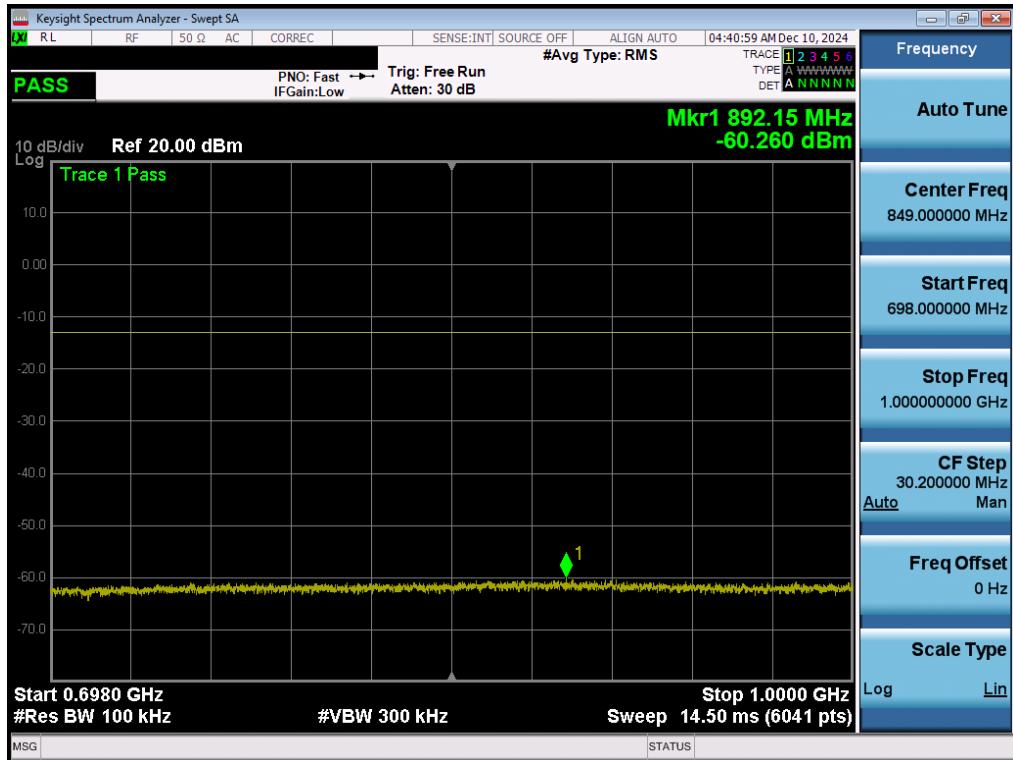
Plot 7-143. Conducted Spurious Plot (LTE Band 13 - 10MHz QPSK - 1 RB - Mid Channel - Ant 2)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-03-R3.C3K	Test Dates: 12/3/2024 - 2/14/2025	EUT Type: Full Modular	Page 106 of 205

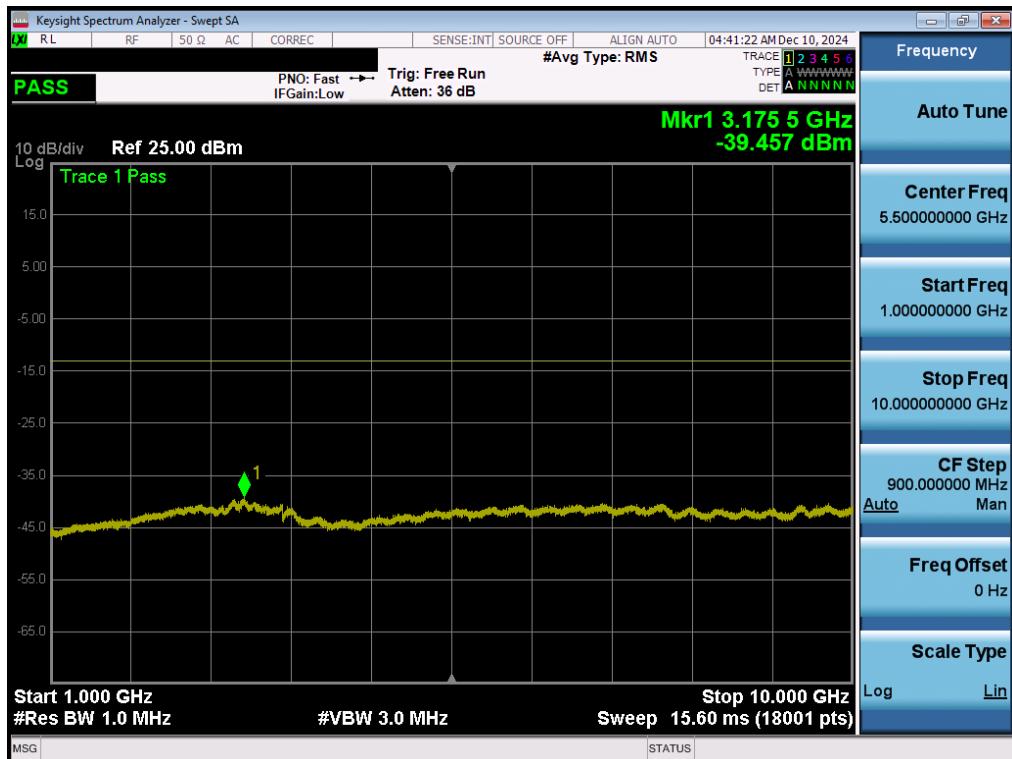


Plot 7-144. Conducted Spurious Plot (LTE Band 13 - 10MHz QPSK - 1 RB - Mid Channel - Ant 2)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-03-R3.C3K	Test Dates: 12/3/2024 - 2/14/2025	EUT Type: Full Modular	Page 107 of 205

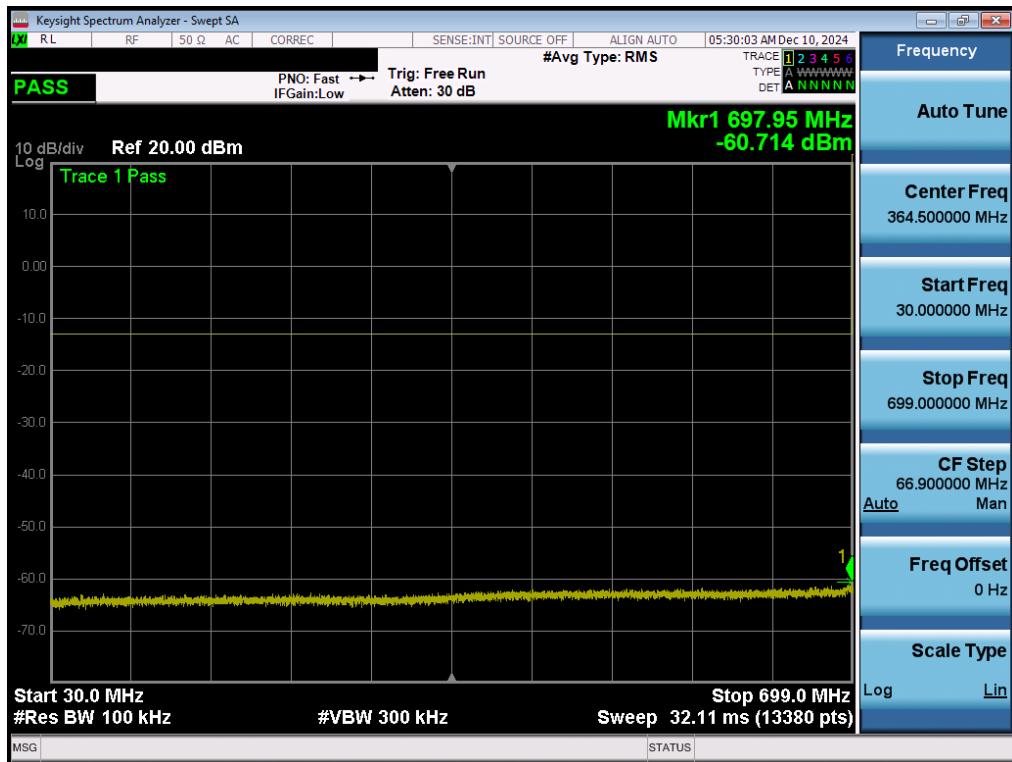
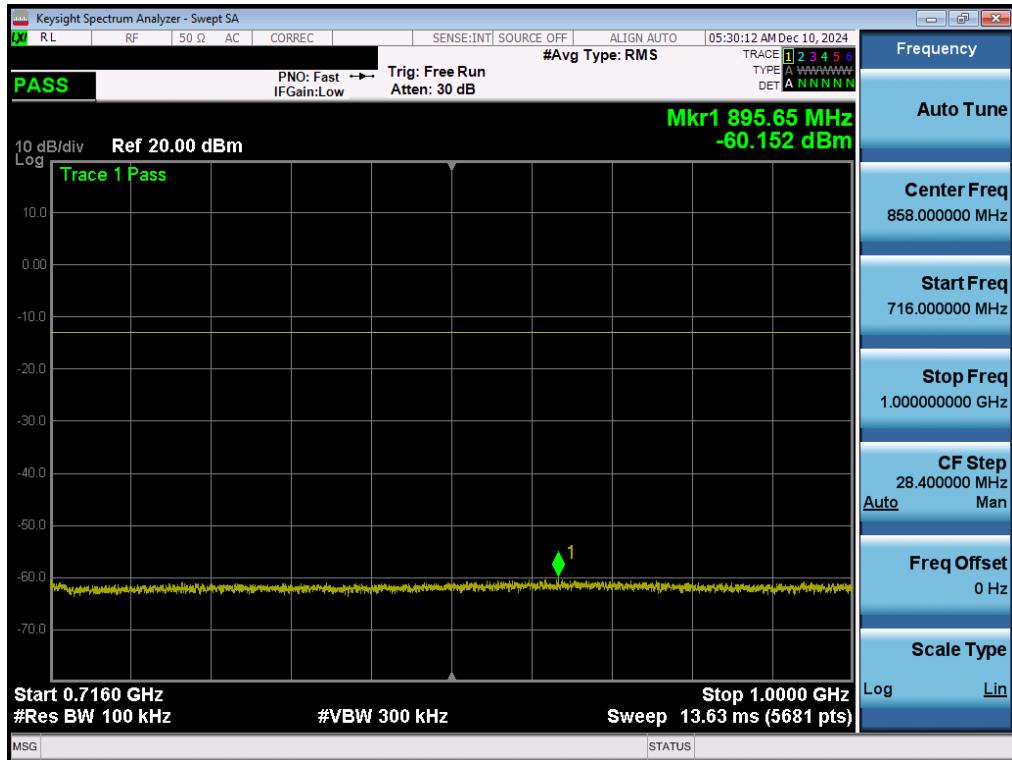
NR Band n71 – Ant 2

Plot 7-145. Conducted Spurious Plot (NR Band n71 - 20.0MHz - 1 RB - Mid Channel - Ant 2)

Plot 7-146. Conducted Spurious Plot (NR Band n71 - 20.0MHz - 1 RB - Mid Channel - Ant 2)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2411190103-03-R3.C3K	Test Dates: 12/3/2024 - 2/14/2025	EUT Type: Full Modular		Page 108 of 205

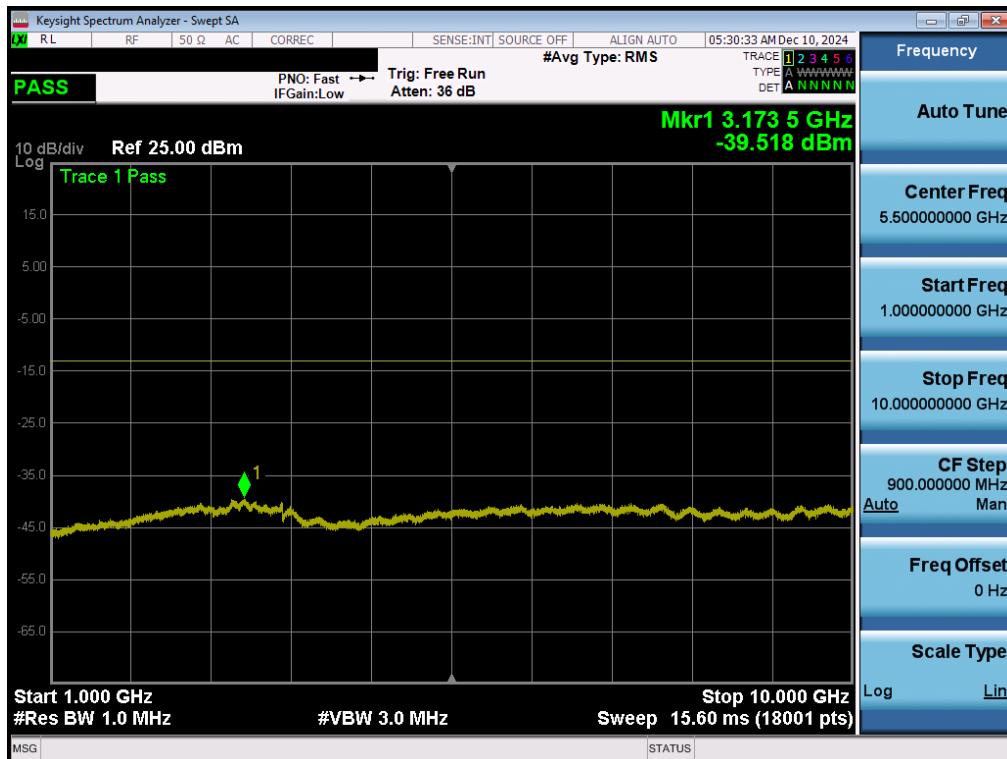


Plot 7-147. Conducted Spurious Plot (NR Band n71 - 20.0MHz - 1 RB - Mid Channel - Ant 2)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-03-R3.C3K	Test Dates: 12/3/2024 - 2/14/2025	EUT Type: Full Modular	Page 109 of 205

NR Band n12 – Ant 2

Plot 7-148. Conducted Spurious Plot (NR Band n12 - 15.0MHz - 1 RB - High Channel - Ant 2)

Plot 7-149. Conducted Spurious Plot (NR Band n12 - 15.0MHz - 1 RB - High Channel - Ant 2)

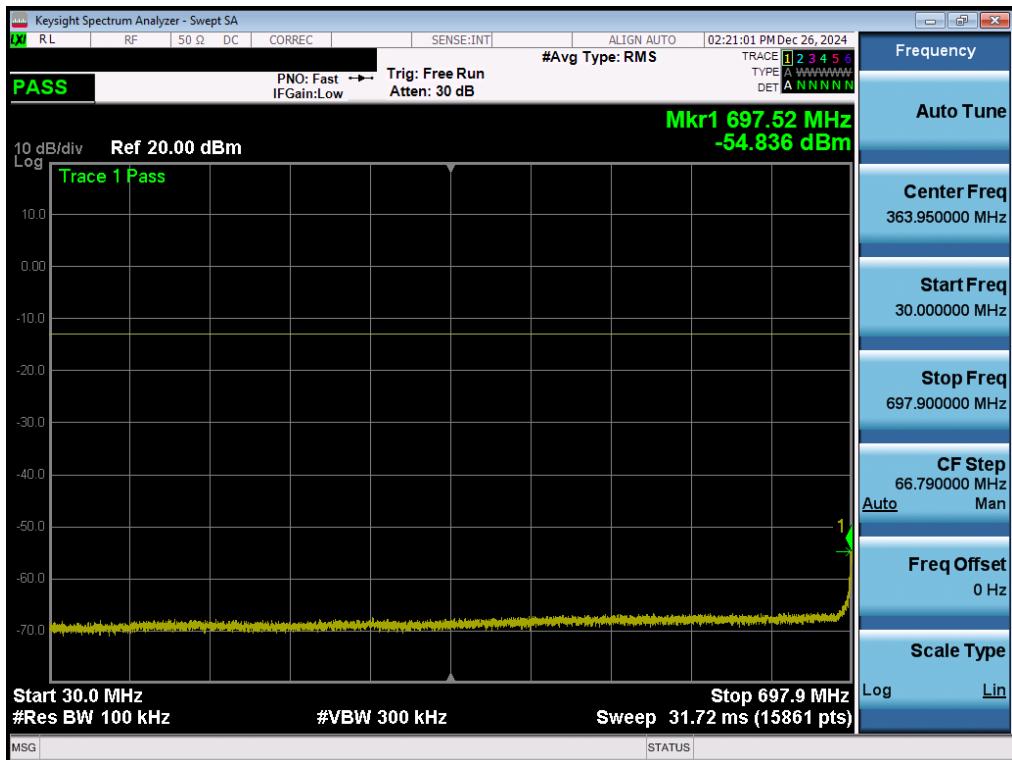
FCC ID: C3K2114	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2411190103-03-R3.C3K	Test Dates: 12/3/2024 - 2/14/2025	EUT Type: Full Modular		Page 110 of 205



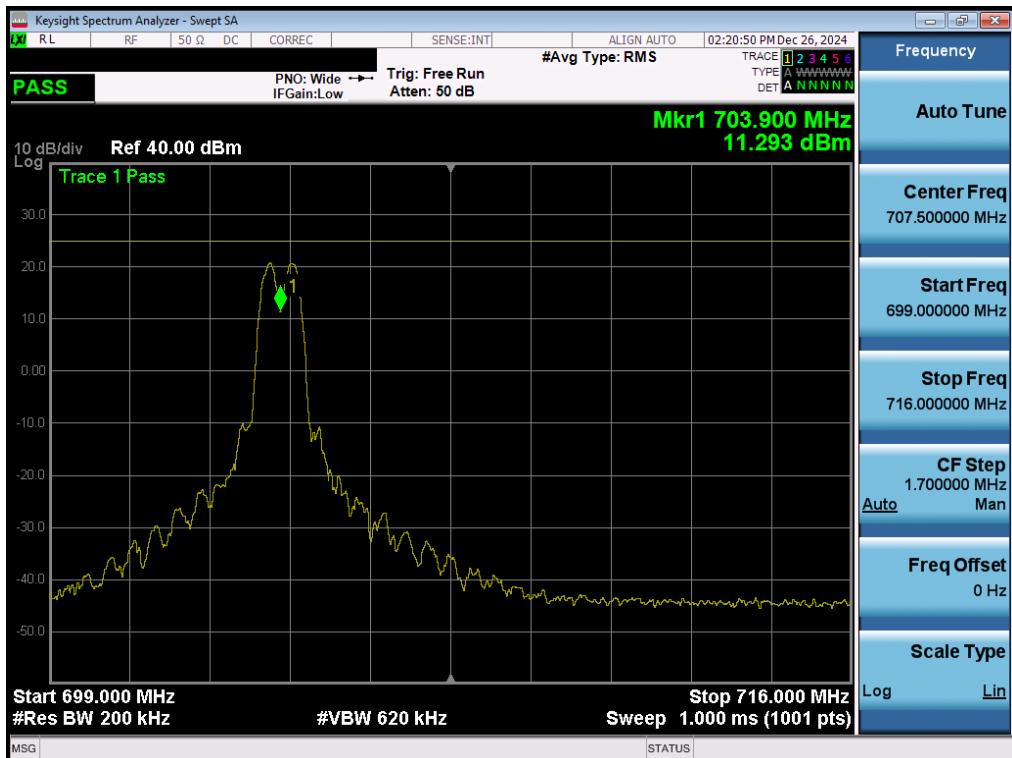
Plot 7-150. Conducted Spurious Plot (NR Band n12 - 15.0MHz - 1 RB - High Channel - Ant 2)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-03-R3.C3K	Test Dates: 12/3/2024 - 2/14/2025	EUT Type: Full Modular	Page 111 of 205

LTE Band 12 ULCA – Ant 2

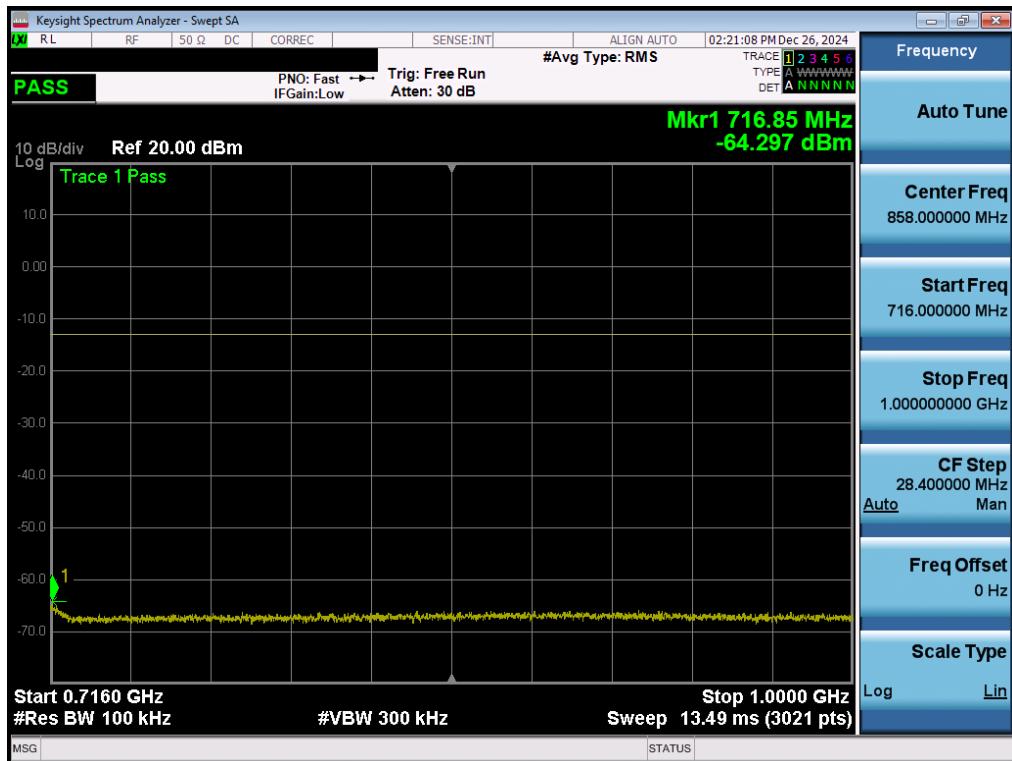


Plot 7-151. Conducted Spurious Plot (LTE Band 12- 5+5MHz QPSK - PCC 1/99 SCC 1/0 - Low Channel - Ant 2)

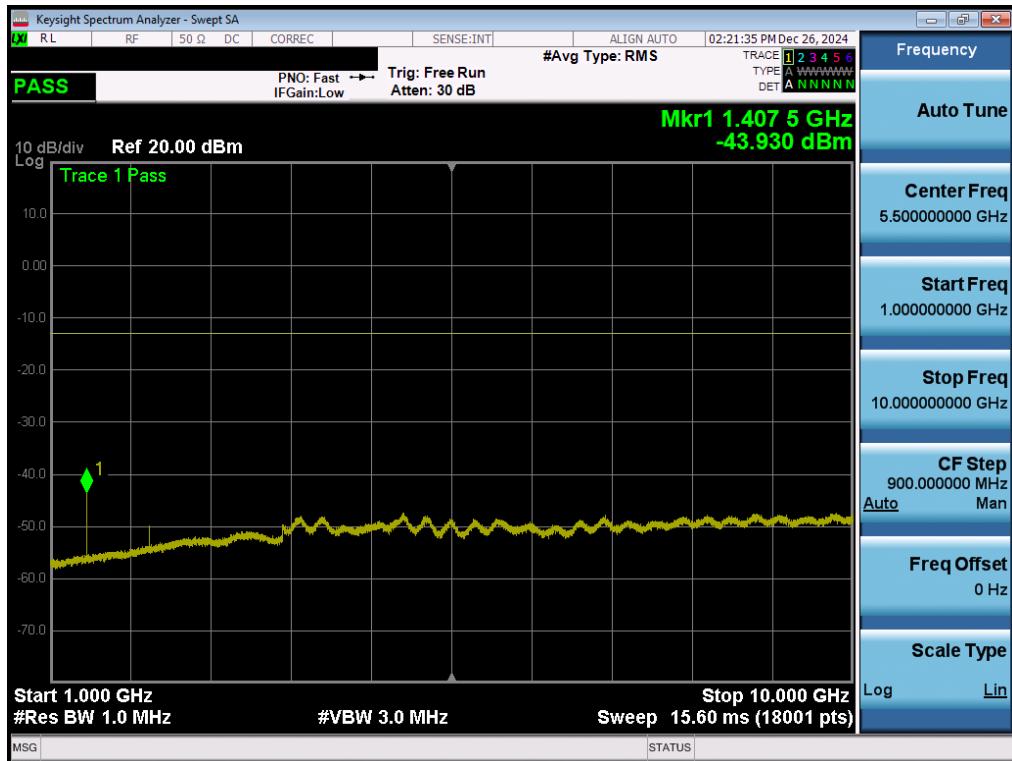


Plot 7-152. Conducted Spurious Plot (LTE Band 12- 5+5MHz QPSK - PCC 1/99 SCC 1/0 - Low Channel - Ant 2)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-03-R3.C3K	Test Dates: 12/3/2024 - 2/14/2025	EUT Type: Full Modular	Page 112 of 205



Plot 7-153. Conducted Spurious Plot (LTE Band 12- 5+5MHz QPSK - PCC 1/99 SCC 1/0 - Low Channel – Ant 2)



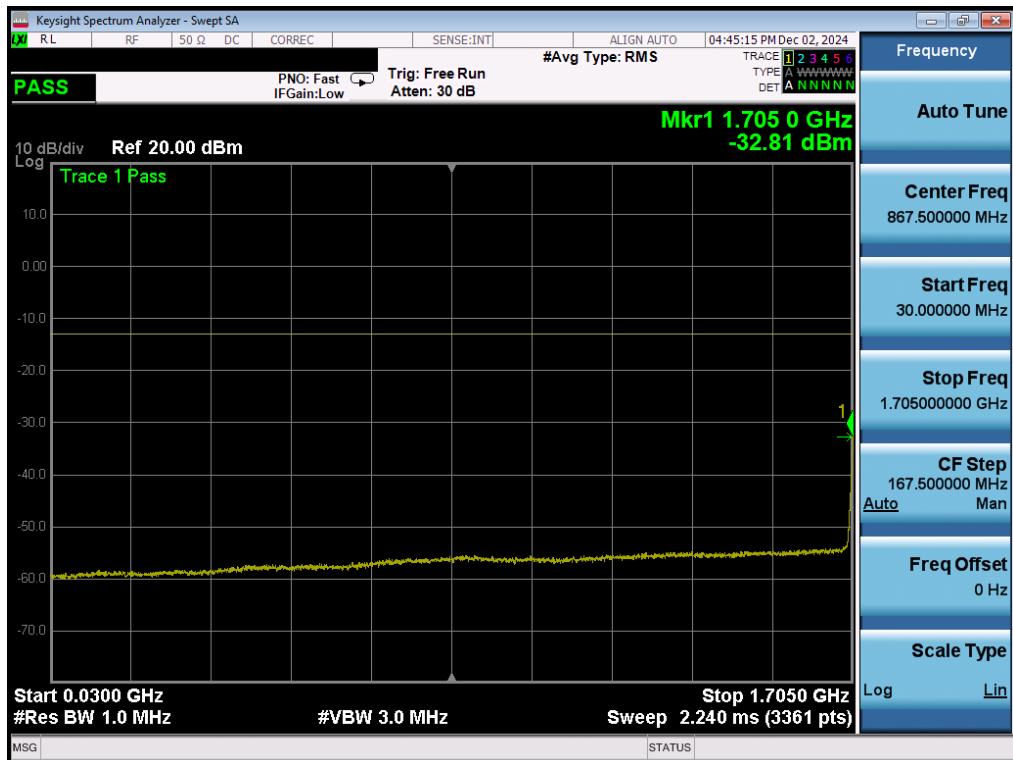
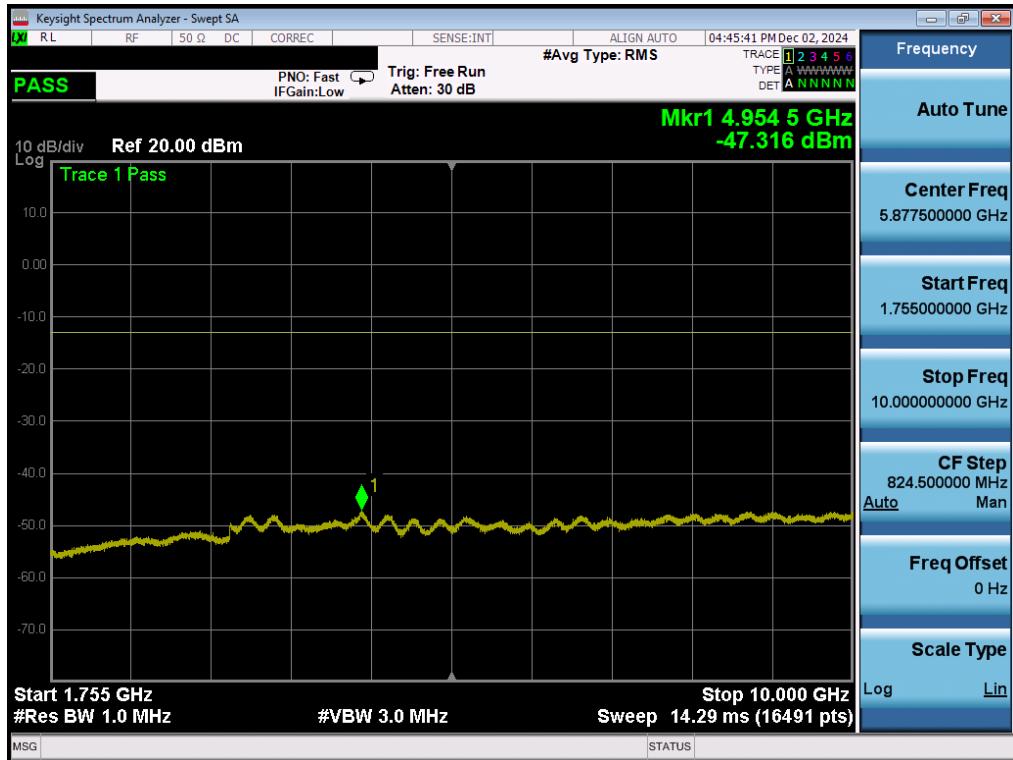
Plot 7-154. Conducted Spurious Plot (LTE Band 12- 5+5MHz QPSK - PCC 1/99 SCC 1/0 - Low Channel – Ant 2)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-03-R3.C3K	Test Dates: 12/3/2024 - 2/14/2025	EUT Type: Full Modular	Page 113 of 205

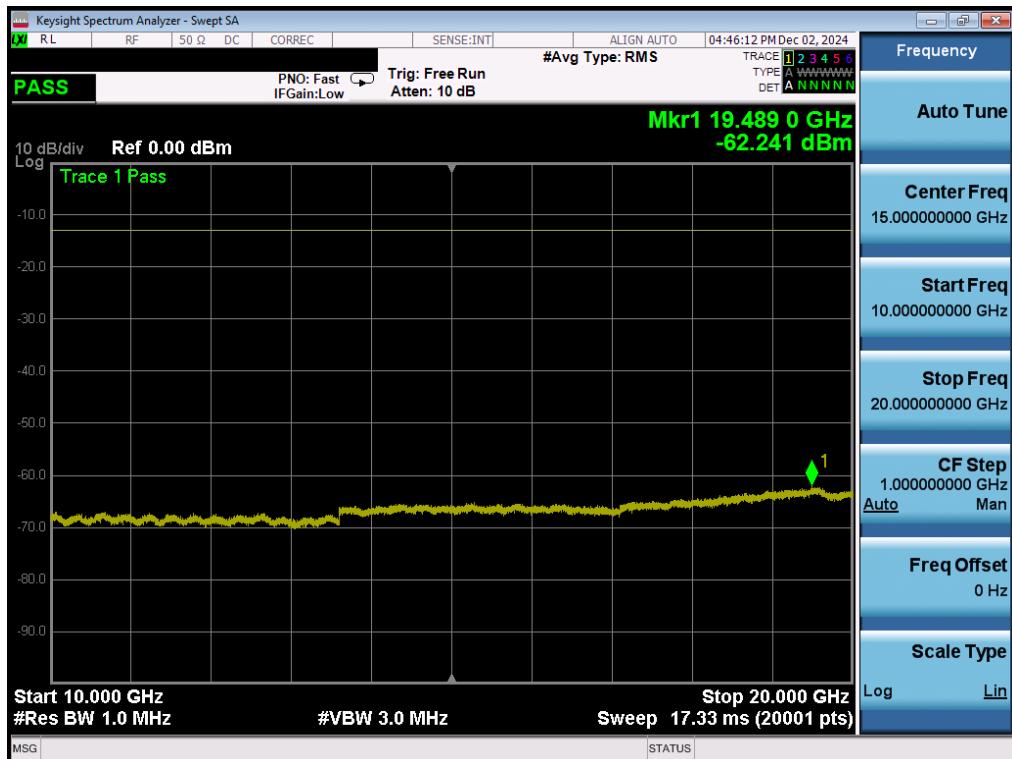
Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
WCDMA1700	N/A	Low	30.0 - 1705.0	-32.81	-13	-19.81
		Low	1755.0 - 10000.0	-47.32	-13	-34.32
		Low	10000.0 - 20000.0	-62.24	-13	-49.24
		Mid	30.0 - 1710.0	-52.65	-13	-39.65
		Mid	1755.0 - 10000.0	-47.29	-13	-34.29
		Mid	10000.0 - 20000.0	-62.26	-13	-49.26
		High	30.0 - 1710.0	-53.87	-13	-40.87
		High	1760.0 - 10000.0	-33.12	-13	-20.12
		High	10000.0 - 20000.0	-62.34	-13	-49.34
LTE-B66-4	20 MHz	Low	30.0 - 663.0	-47.49	-13	-34.49
		Low	698.0 - 1000.0	-44.65	-13	-31.65
		Low	1000.0 - 10000.0	-56.65	-13	-43.65
		Mid	30.0 - 663.0	-49.23	-13	-36.23
		Mid	698.0 - 1000.0	-44.49	-13	-31.49
		Mid	1000.0 - 10000.0	-56.45	-13	-43.45
		High	30.0 - 663.0	-49.23	-13	-36.23
		High	698.0 - 1000.0	-44.59	-13	-31.59
		High	1000.0 - 10000.0	-56.53	-13	-43.53
NR Band n66	40 MHz	Low	30.0 - 1710.0	-51.29	-13	-38.29
		Low	1780.0 - 10000.0	-46.25	-13	-33.25
		Low	10000.0 - 20000.0	-60.18	-13	-47.18
		Mid	30.0 - 1710.0	-53.74	-13	-40.74
		Mid	1780.0 - 10000.0	-46.27	-13	-33.27
		Mid	10000.0 - 20000.0	-60.70	-13	-47.70
		High	30.0 - 1710.0	-54.20	-13	-41.20
		High	1780.0 - 10000.0	-45.96	-13	-32.96
		High	10000.0 - 20000.0	-60.69	-13	-47.69
LTE Band 66B/C ULCA	40 MHz	Low	30.0 - 1709.0	-45.65	-13	-32.65
		Low	1710.0 - 1780.0	14.04	-	-
		Low	1780.0 - 10000.0	-46.82	-13	-33.82
		Low	10000.0 - 20000.0	-61.96	-13	-48.96
		Mid	30.0 - 1710.0	-52.81	-13	-39.81
		Mid	1710.0 - 1780.0	14.05	-	-
		Mid	1780.0 - 10000.0	-46.28	-13	-33.28
		Mid	10000.0 - 20000.0	-61.63	-13	-48.63
		High	30.0 - 1710.0	-52.81	-13	-39.81
		High	1710.0 - 1780.0	13.94	-	-
		High	1781.0 - 10000.0	-42.32	-13	-29.32
		High	10000.0 - 20000.0	-61.58	-13	-48.58

Table 7-25. Spurious Emission Test Results – Ant 1

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT				Approved by: Technical Manager
Test Report S/N: 1M2411190103-03-R3.C3K	Test Dates: 12/3/2024 - 2/14/2025	EUT Type: Full Modular			Page 114 of 205

WCDMA AWS – Ant 1

Plot 7-155. Conducted Spurious Plot (WCDMA Ch. 1312- Low Channel - Ant 1)

Plot 7-156. Conducted Spurious Plot (WCDMA Ch. 1312- Low Channel - Ant 1)

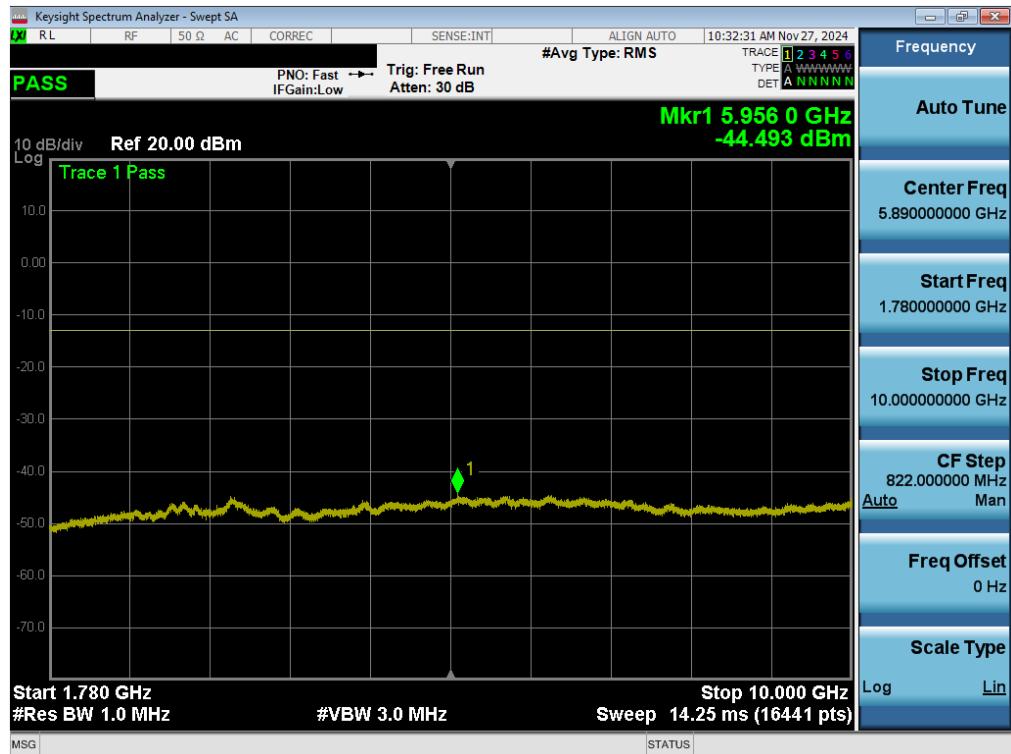
FCC ID: C3K2114	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2411190103-03-R3.C3K	Test Dates: 12/3/2024 - 2/14/2025	EUT Type: Full Modular		Page 115 of 205



Plot 7-157. Conducted Spurious Plot (WCDMA Ch. 1312- Low Channel - Ant 1)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-03-R3.C3K	Test Dates: 12/3/2024 - 2/14/2025	EUT Type: Full Modular	Page 116 of 205

LTE Band 66/4 – Ant 1

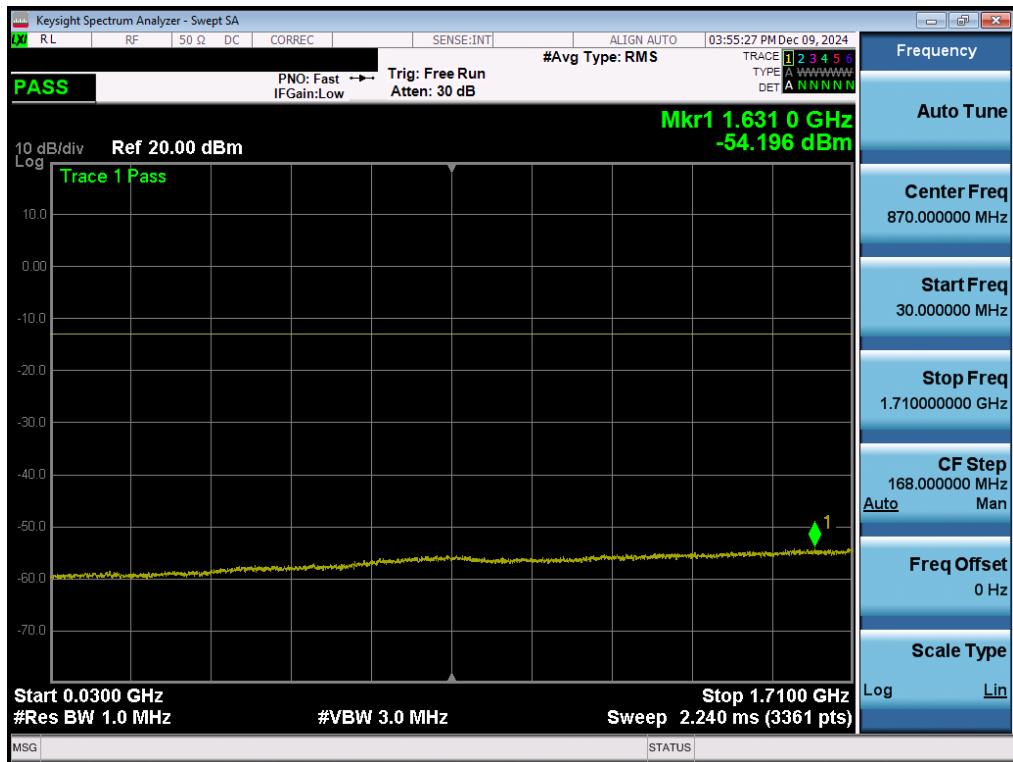
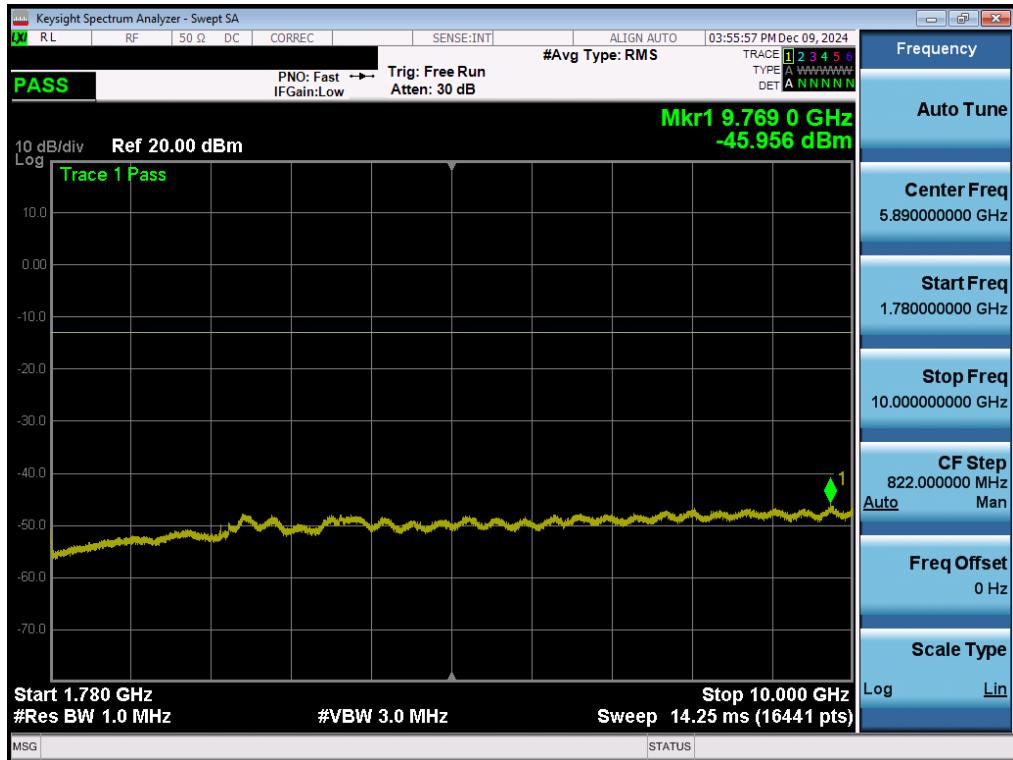
Plot 7-158. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - 1 RB - Mid Channel – Ant 1)

Plot 7-159. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - 1 RB - Mid Channel – Ant 1)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-03-R3.C3K	Test Dates: 12/3/2024 - 2/14/2025	EUT Type: Full Modular	Page 117 of 205

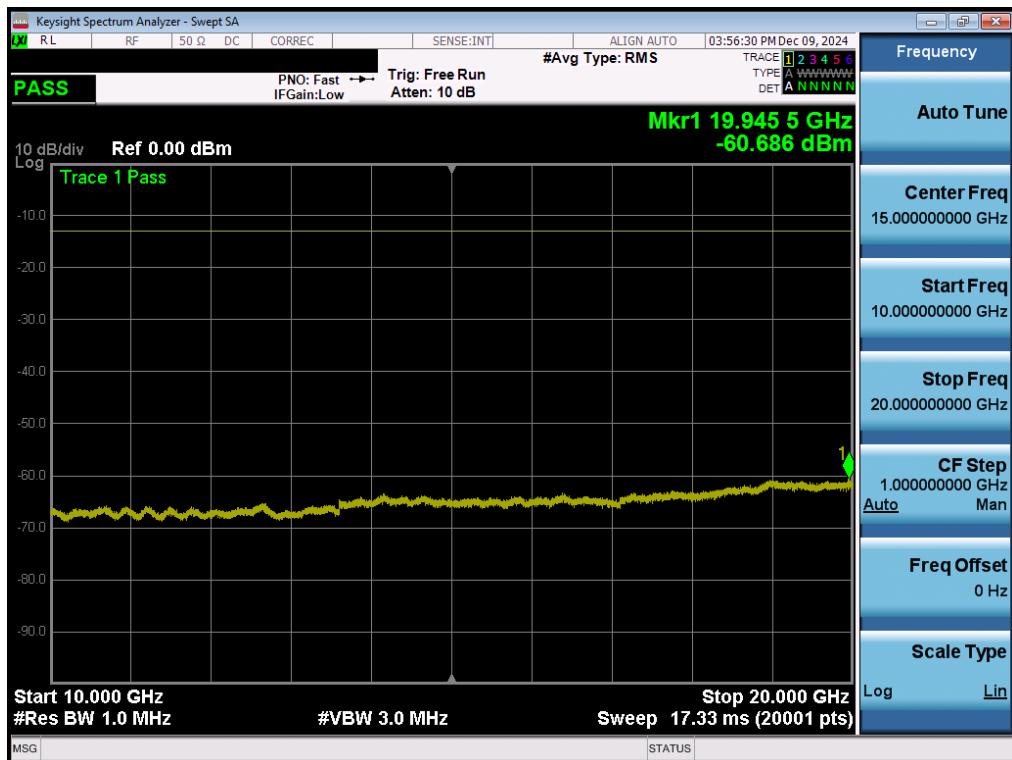


Plot 7-160. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - 1 RB - Mid Channel – Ant 1)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-03-R3.C3K	Test Dates: 12/3/2024 - 2/14/2025	EUT Type: Full Modular	Page 118 of 205

NR Band n66 – Ant 1

Plot 7-161. Conducted Spurious Plot (NR Band n66 - 40.0MHz - 1 RB - High Channel - Ant 1)

Plot 7-162. Conducted Spurious Plot (NR Band n66 - 40.0MHz - 1 RB - High Channel - Ant 1)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2411190103-03-R3.C3K	Test Dates: 12/3/2024 - 2/14/2025	EUT Type: Full Modular		Page 119 of 205



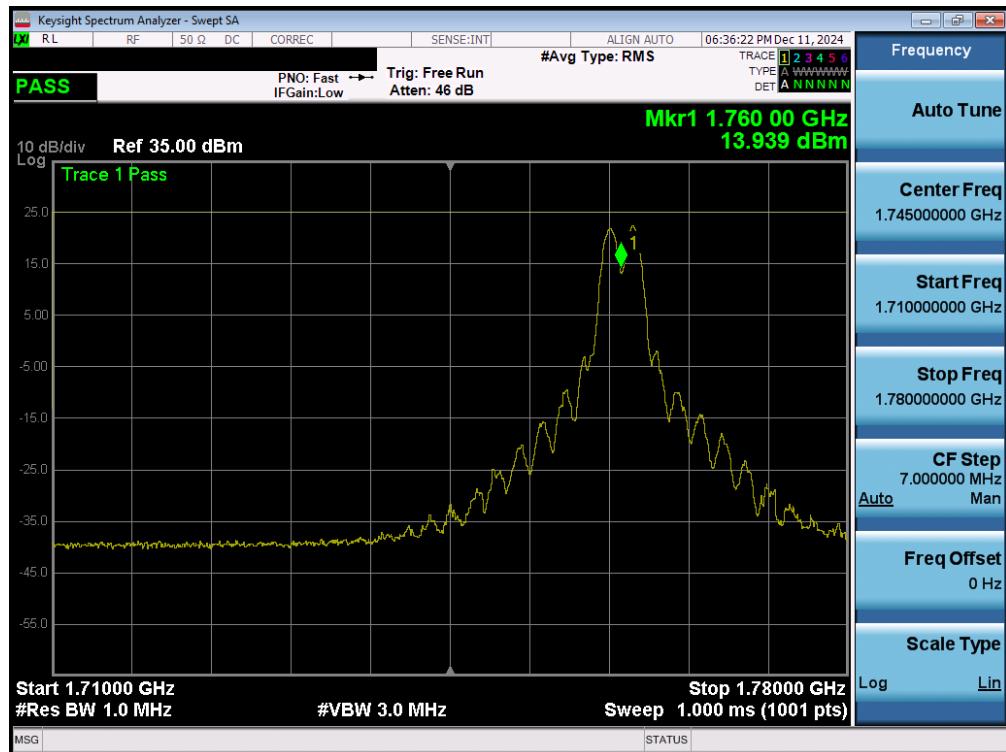
Plot 7-163. Conducted Spurious Plot (NR Band n66 - 40.0MHz - 1 RB - High Channel - Ant 1)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-03-R3.C3K	Test Dates: 12/3/2024 - 2/14/2025	EUT Type: Full Modular	Page 120 of 205

Uplink CA LTE Band 66B/C – Ant 1

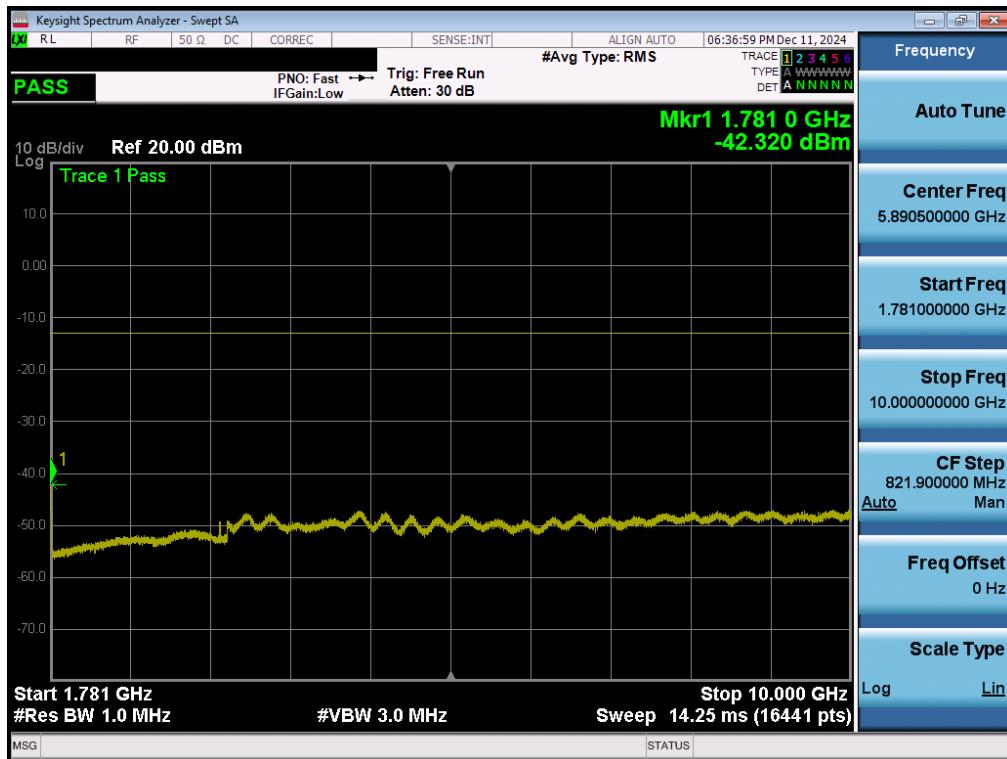


Plot 7-164. Conducted Spurious Plot (ULCA LTE Band 66 - 20+20MHz - PCC 1/0 SCC 1/99 - High Channel - Ant 1)

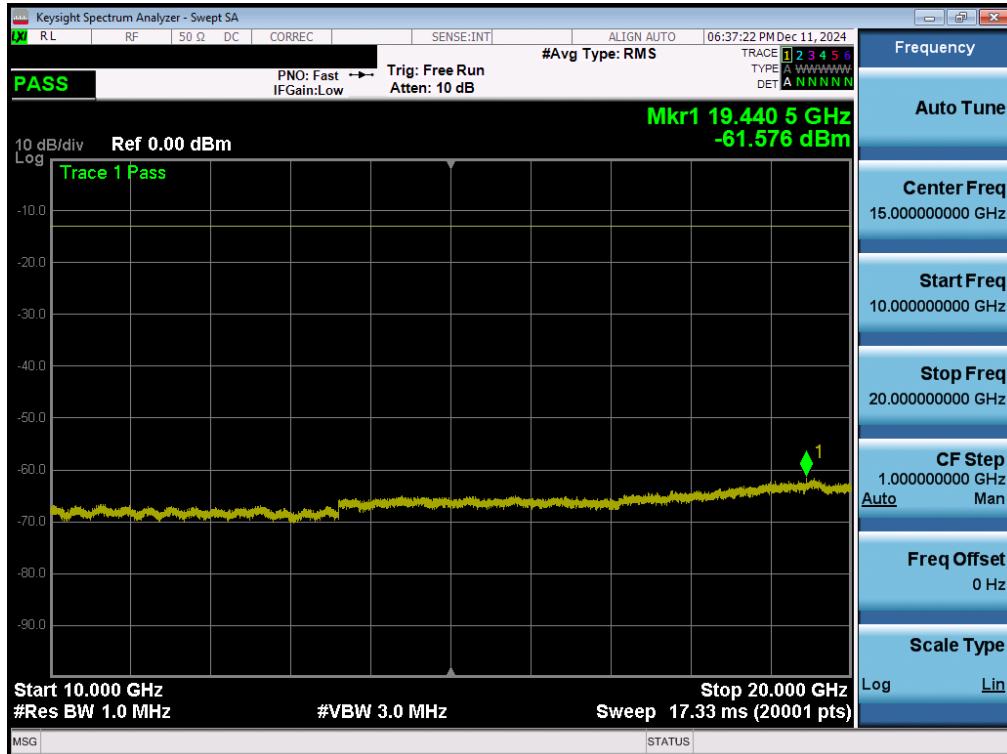


Plot 7-165. Conducted Spurious Plot (ULCA LTE Band 66 - 20+20MHz - PCC 1/0 SCC 1/99 - High Channel - Ant 1)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-03-R3.C3K	Test Dates: 12/3/2024 - 2/14/2025	EUT Type: Full Modular	Page 121 of 205



Plot 7-166. Conducted Spurious Plot (ULCA LTE Band 66 - 20+20MHz - PCC 1/0 SCC 1/99 - High Channel - Ant 1)



Plot 7-167. Conducted Spurious Plot (ULCA LTE Band 66 - 20+20MHz - PCC 1/0 SCC 1/99 - High Channel - Ant 1)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2411190103-03-R3.C3K	Test Dates: 12/3/2024 - 2/14/2025	EUT Type: Full Modular		Page 122 of 205

7.5 Band Edge Emissions at Antenna Terminal

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

ANSI C63.26-2015 – Section 5.7.3

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.

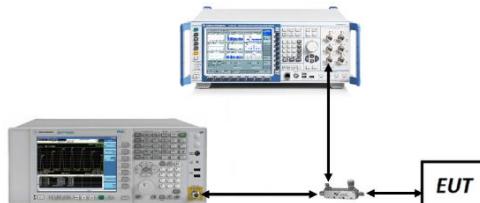


Figure 7-4. Test Instrument & Measurement Setup

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Test Notes

1. Per 27.53(h) for AWS band operation, 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.

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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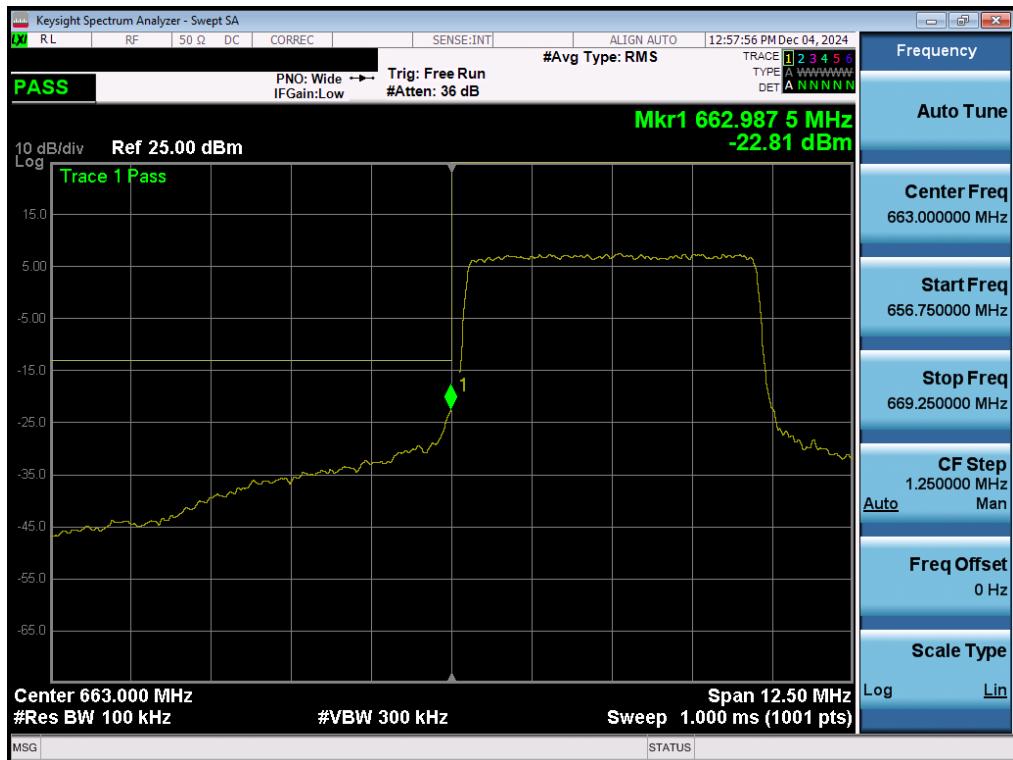
Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
LTE Band 71	20 MHz	Low	Band Edge	-28.29	-13	-15.29
		High	Band Edge	-28.44	-13	-15.44
	15 MHz	Low	Band Edge	-30.91	-13	-17.91
		High	Band Edge	-30.50	-13	-17.50
	10 MHz	Low	Band Edge	-31.75	-13	-18.75
		High	Band Edge	-30.23	-13	-17.23
	5 MHz	Low	Band Edge	-22.81	-13	-9.81
		High	Band Edge	-20.38	-13	-7.38
	LTE Band 12	Low	Band Edge	-27.34	-13	-14.34
		High	Band Edge	-29.44	-13	-16.44
		Low	Band Edge	-22.72	-13	-9.72
		High	Band Edge	-23.34	-13	-10.34
LTE Band 13	3 MHz	Low	Band Edge	-15.61	-13	-2.61
		High	Band Edge	-20.26	-13	-7.26
		Low	Band Edge	-25.95	-13	-12.95
		High	Band Edge	-26.19	-13	-13.19
	10 MHz	Low	Band Edge	-26.30	-13	-13.30
		Low	Emission Mask	-61.46	-13	-48.46
		High	Band Edge	-24.65	-13	-11.65
		High	Emission Mask	-61.56	-13	-48.56
	5 MHz	Low	Band Edge	-22.33	-13	-9.33
		Low	Emission Mask	-60.19	-13	-47.19
		High	Band Edge	-22.21	-13	-9.21
		High	EmMask	-69.63	-13	-56.63
LTE Band 12 ULCA	10 MHz	Low	Band Edge	-27.67	-13	-14.67
		High	Band Edge	-25.94	-13	-12.94

Table 7-26. Conducted Band Edge Test Results – Ant 5

Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
NR Band n71	20 MHz	Low	Band Edge	-30.29	-13	-17.29
		High	Band Edge	-28.95	-13	-15.95
	15 MHz	Low	Band Edge	-29.47	-13	-16.47
		High	Band Edge	-27.92	-13	-14.92
	10 MHz	Low	Band Edge	-25.88	-13	-12.88
		High	Band Edge	-26.56	-13	-13.56
	5 MHz	Low	Band Edge	-21.64	-13	-8.64
		High	Band Edge	-21.97	-13	-8.97
	NR Band n12	Low	Band Edge	-28.22	-13	-15.22
		High	Band Edge	-25.32	-13	-12.32
		Low	Band Edge	-28.09	-13	-15.09
		High	Band Edge	-23.41	-13	-10.41
	5 MHz	Low	Band Edge	-25.23	-13	-12.23
		High	Band Edge	-19.29	-13	-6.29

Table 7-27. Conducted Band Edge Test Results – Ant 5

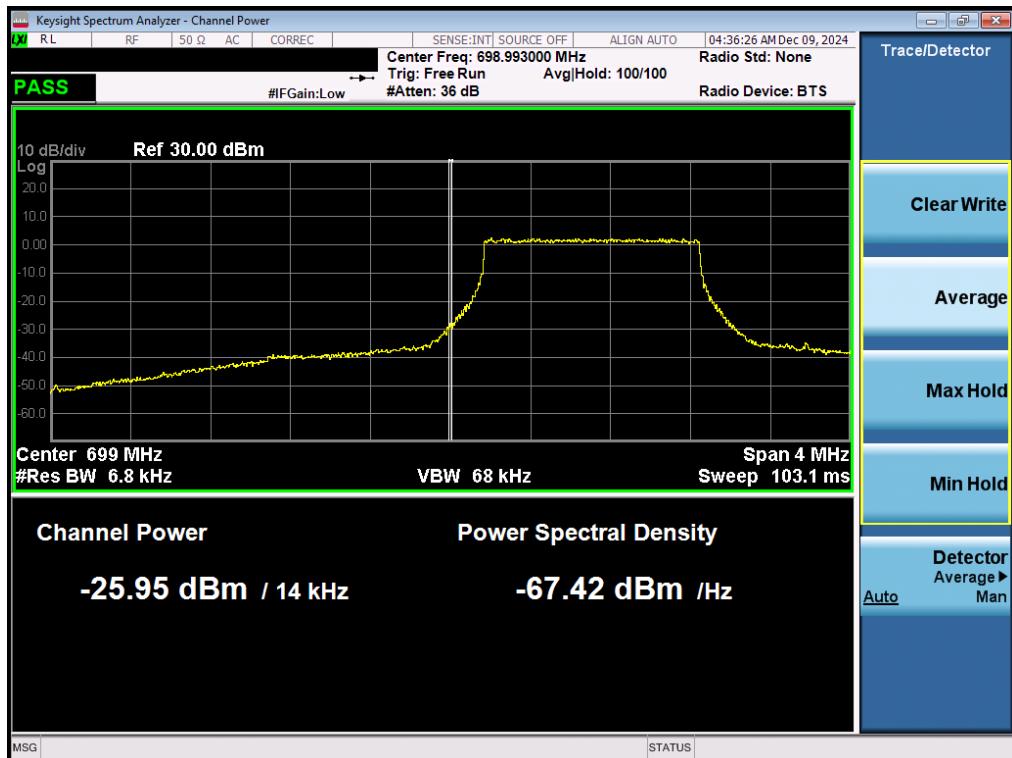
FCC ID: C3K2114	PART 27 MEASUREMENT REPORT				Approved by: Technical Manager
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LTE Band 71 – Ant 5

Plot 7-168. Lower Band Edge Plot (LTE Band 71 - 5MHz QPSK – Full RB - Ant 5)

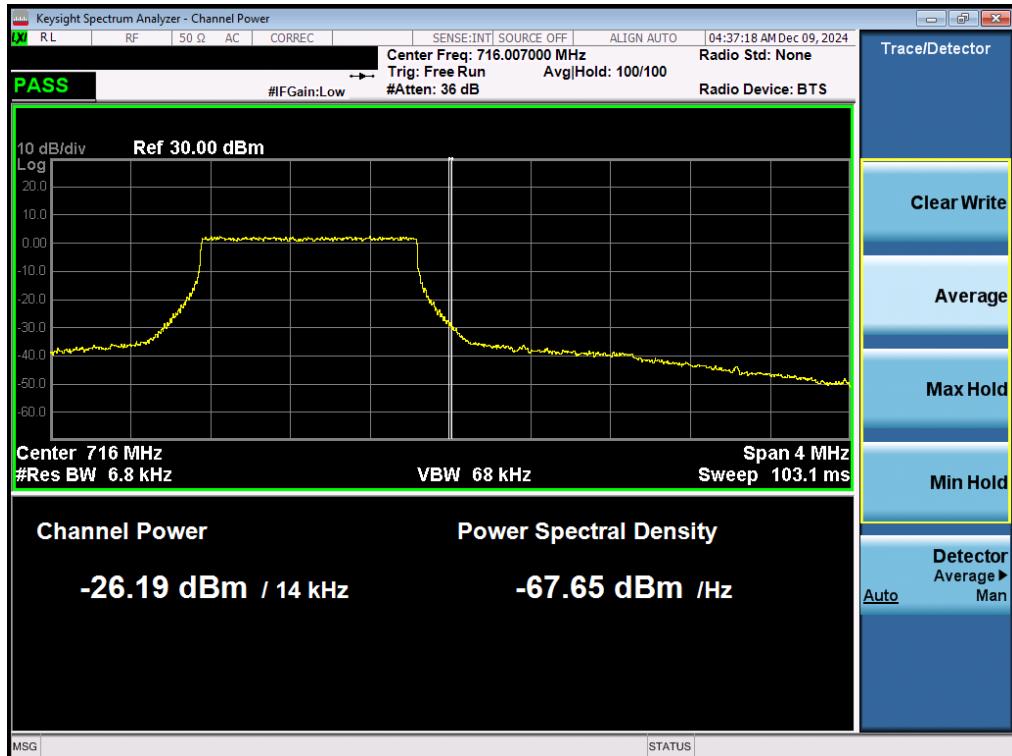
Plot 7-169. Upper Band Edge Plot (LTE Band 71 - 5MHz QPSK – Full RB - Ant 5)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2411190103-03-R3.C3K	Test Dates: 12/3/2024 - 2/14/2025	EUT Type: Full Modular		Page 126 of 205

LTE Band 12– Ant 5



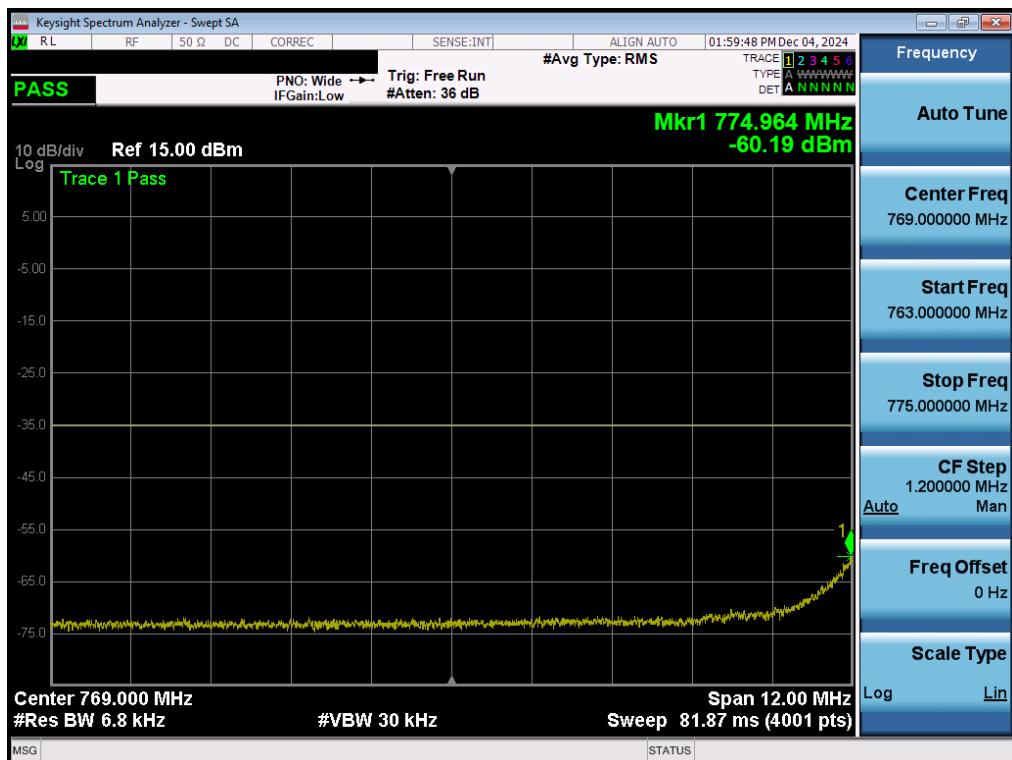
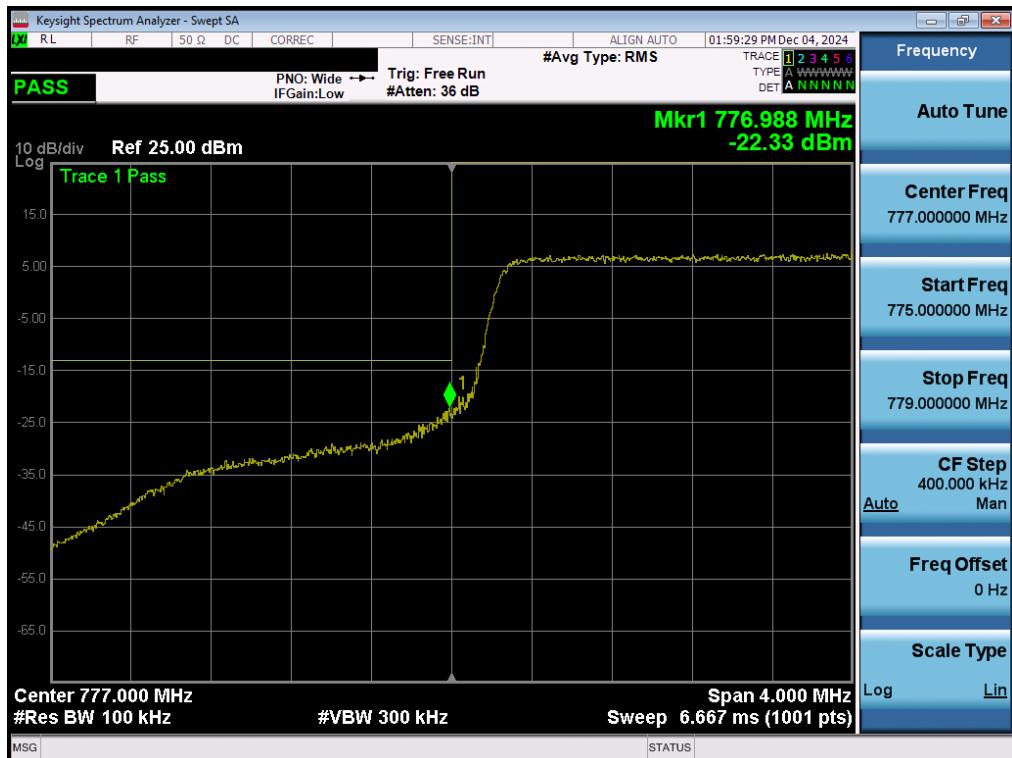
Plot 7-170. Lower Band Edge Plot (LTE Band 12 – 1.4MHz QPSK – Full RB - Ant 5)



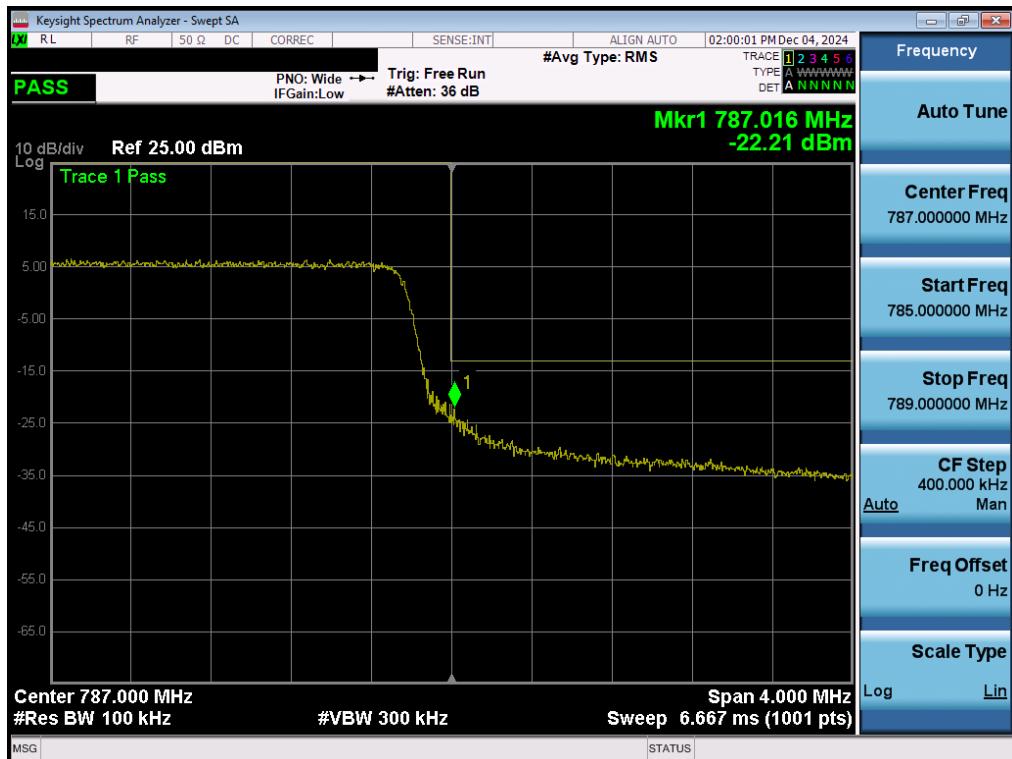
Plot 7-171. Upper Band Edge Plot (LTE Band 12 – 1.4MHz QPSK – Full RB - Ant 5)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-03-R3.C3K	Test Dates: 12/3/2024 - 2/14/2025	EUT Type: Full Modular	Page 127 of 205

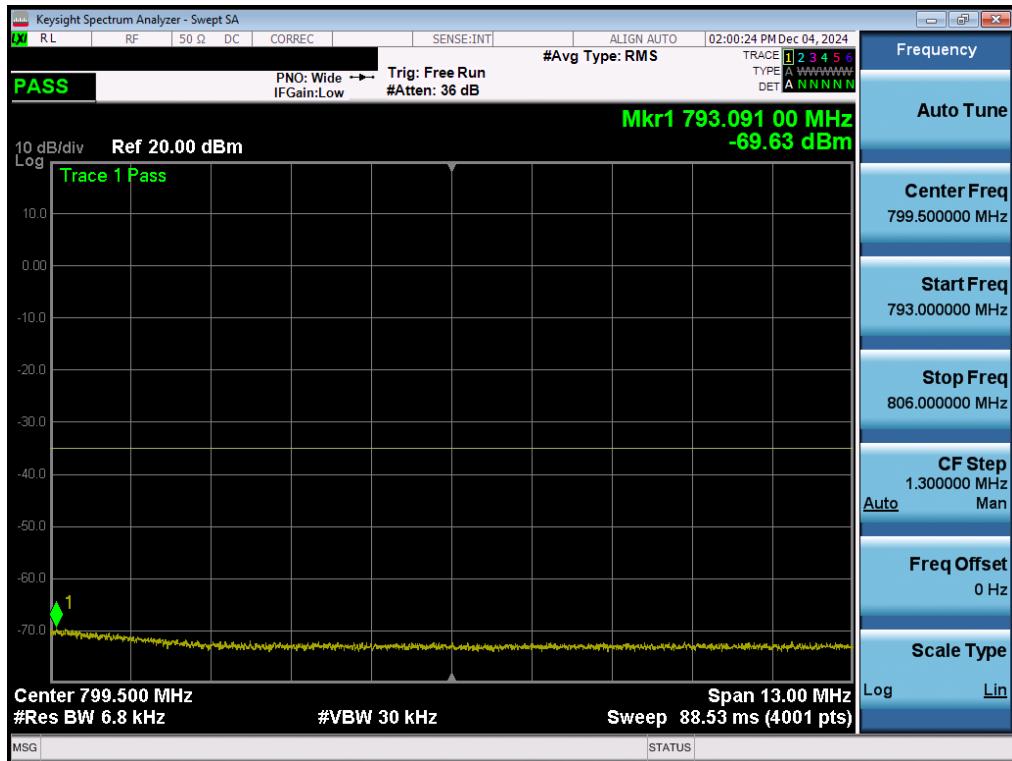
LTE Band 13 – Ant 5



FCC ID: C3K2114	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2411190103-03-R3.C3K	Test Dates: 12/3/2024 - 2/14/2025	EUT Type: Full Modular		Page 128 of 205



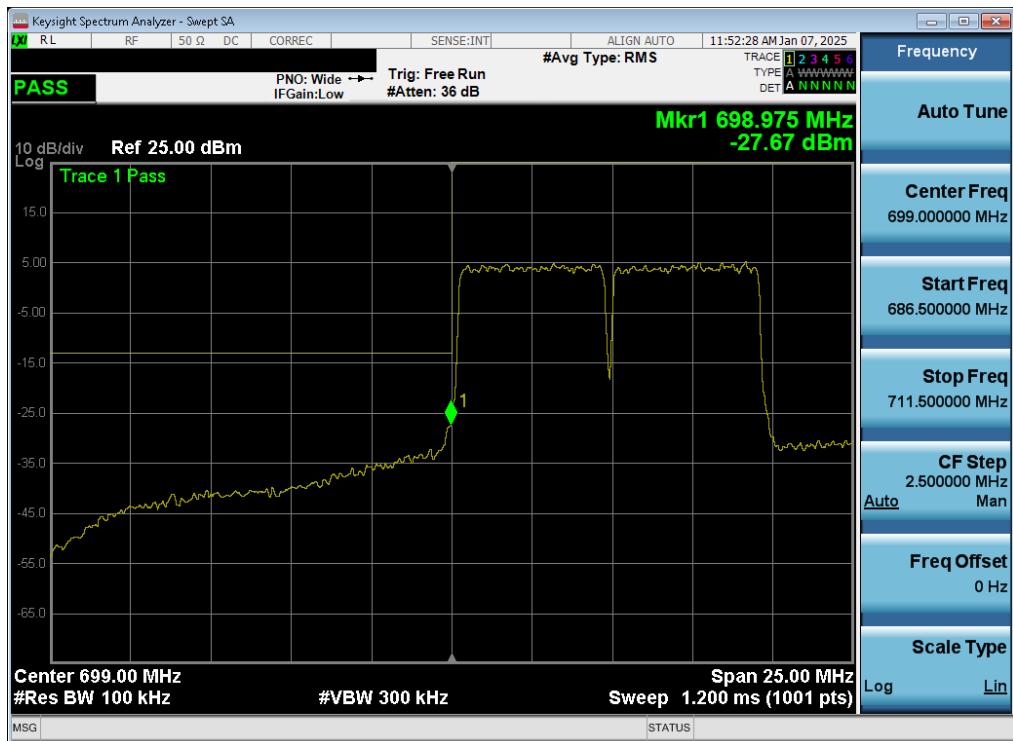
Plot 7-174. Upper Band Edge Plot (LTE Band 13 - 5MHz QPSK – Full RB - Ant 5)



Plot 7-175. Upper Emission Mask Plot (LTE Band 13 - 5MHz QPSK – Full RB - Ant 5)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-03-R3.C3K	Test Dates: 12/3/2024 - 2/14/2025	EUT Type: Full Modular	Page 129 of 205

Uplink CA LTE Band 12 – Ant 5

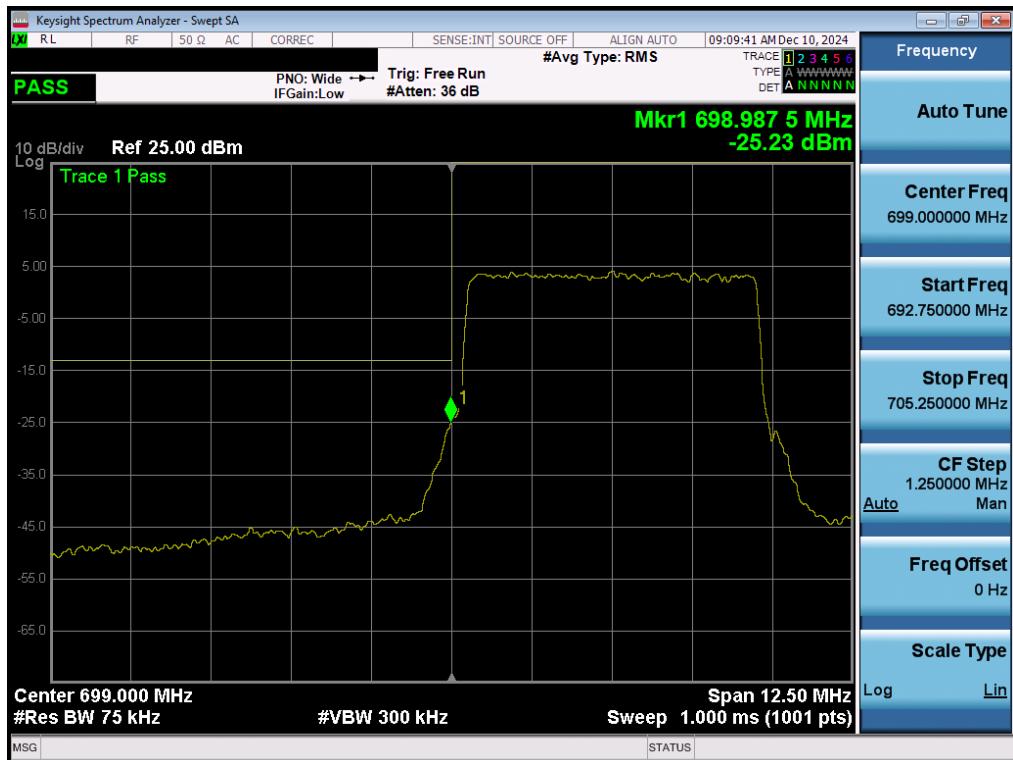


FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-03-R3.C3K	Test Dates: 12/3/2024 - 2/14/2025	EUT Type: Full Modular	Page 130 of 205

NR Band n71 – Ant 5


Plot 7-179. Upper Band Edge Plot (NR Band n71 – 5.0MHz - Full RB - Ant 5)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-03-R3.C3K	Test Dates: 12/3/2024 - 2/14/2025	EUT Type: Full Modular	Page 131 of 205

NR Band n12 – Ant 5

Plot 7-180. Lower Band Edge Plot (NR Band n12 – 5.0MHz - Full RB - Ant 5)

Plot 7-181. Upper Band Edge Plot (NR Band n12 – 5.0MHz - Full RB - Ant 5)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-03-R3.C3K	Test Dates: 12/3/2024 - 2/14/2025	EUT Type: Full Modular	Page 132 of 205

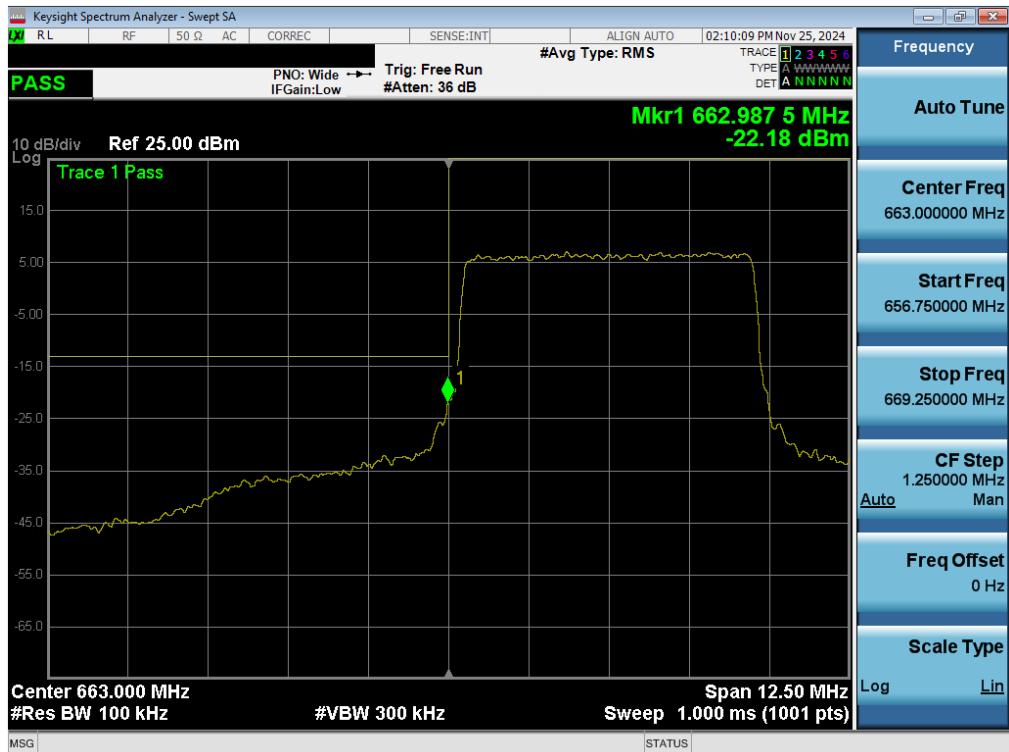
Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]	
LTE Band 71	20 MHz	Low	Band Edge	-30.85	-13	-17.85	
		High	Band Edge	-29.82	-13	-16.82	
	15 MHz	Low	Band Edge	-31.31	-13	-18.31	
		High	Band Edge	-29.60	-13	-16.60	
	10 MHz	Low	Band Edge	-31.69	-13	-18.69	
		High	Band Edge	-31.91	-13	-18.91	
	5 MHz	Low	Band Edge	-22.18	-13	-9.18	
		High	Band Edge	-24.47	-13	-11.47	
	LTE Band 12	Low	Band Edge	-28.18	-13	-15.18	
		High	Band Edge	-28.72	-13	-15.72	
		Low	Band Edge	-21.69	-13	-8.69	
		High	Band Edge	-23.37	-13	-10.37	
	3 MHz	Low	Band Edge	-16.64	-13	-3.64	
		High	Band Edge	-17.74	-13	-4.74	
		Low	Band Edge	-17.05	-13	-4.05	
		High	Band Edge	-25.74	-13	-12.74	
	LTE Band 13	Low	Band Edge	-26.41	-13	-13.41	
		Low	Emission Mask	-60.59	-13	-47.59	
		High	Band Edge	-25.62	-13	-12.62	
		High	Emission Mask	-61.97	-13	-48.97	
		Low	Band Edge	-22.17	-13	-9.17	
		Low	Emission Mask	-58.81	-13	-45.81	
		High	Band Edge	-22.52	-13	-9.52	
		High	EmMask	-65.87	-13	-52.87	
	LTE Band 12 ULCA	10 MHz	Low	Band Edge	-25.86	-13	-12.86
		High	Band Edge	-26.78	-13	-13.78	

Table 7-28. Conducted Band Edge Test Results – Ant 2

Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
NR Band n71	20 MHz	Low	Band Edge	-29.95	-13	-16.95
		High	Band Edge	-30.07	-13	-17.07
	15 MHz	Low	Band Edge	-29.97	-13	-16.97
		High	Band Edge	-27.54	-13	-14.54
	10 MHz	Low	Band Edge	-25.39	-13	-12.39
		High	Band Edge	-28.05	-13	-15.05
	5 MHz	Low	Band Edge	-22.03	-13	-9.03
		High	Band Edge	-21.94	-13	-8.94
	NR Band n12	Low	Band Edge	-27.67	-13	-14.67
		High	Band Edge	-27.59	-13	-14.59
		Low	Band Edge	-24.79	-13	-11.79
		High	Band Edge	-26.96	-13	-13.96
	5 MHz	Low	Band Edge	-26.86	-13	-13.86
		High	Band Edge	-22.19	-13	-9.19

Table 7-29. Conducted Band Edge Test Results – Ant 2

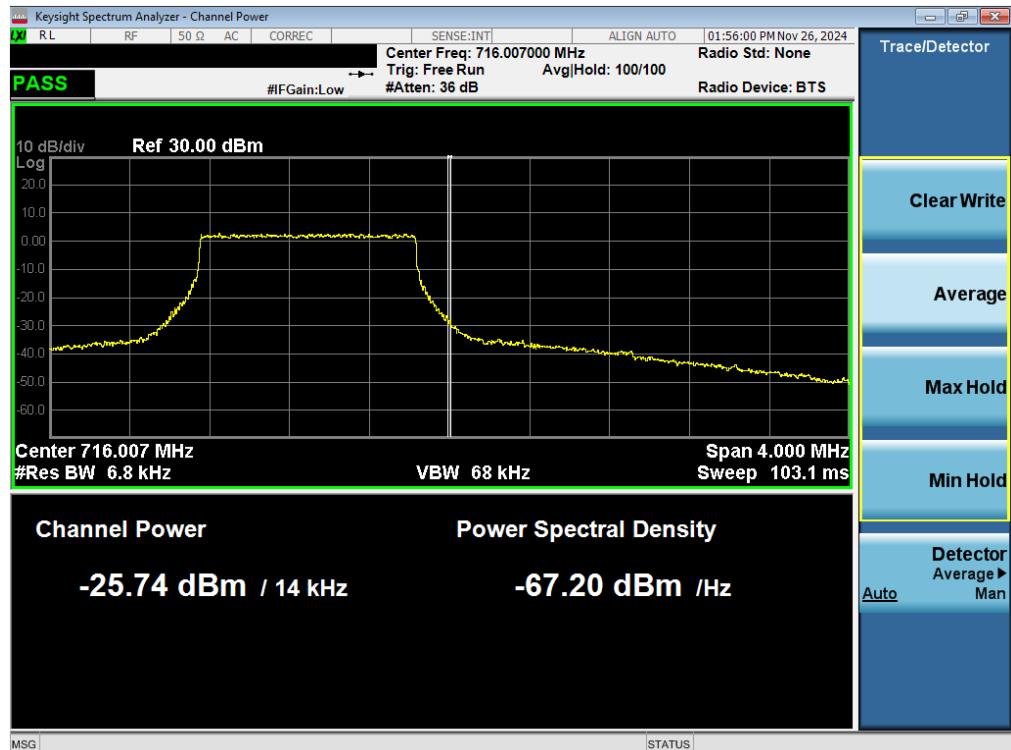
FCC ID: C3K2114	PART 27 MEASUREMENT REPORT				Approved by: Technical Manager
Test Report S/N: 1M2411190103-03-R3.C3K	Test Dates: 12/3/2024 - 2/14/2025	EUT Type: Full Modular			Page 133 of 205

LTE Band 71 – Ant 2

Plot 7-182. Lower Band Edge Plot (LTE Band 71 - 5MHz QPSK – Full RB - Ant 2)

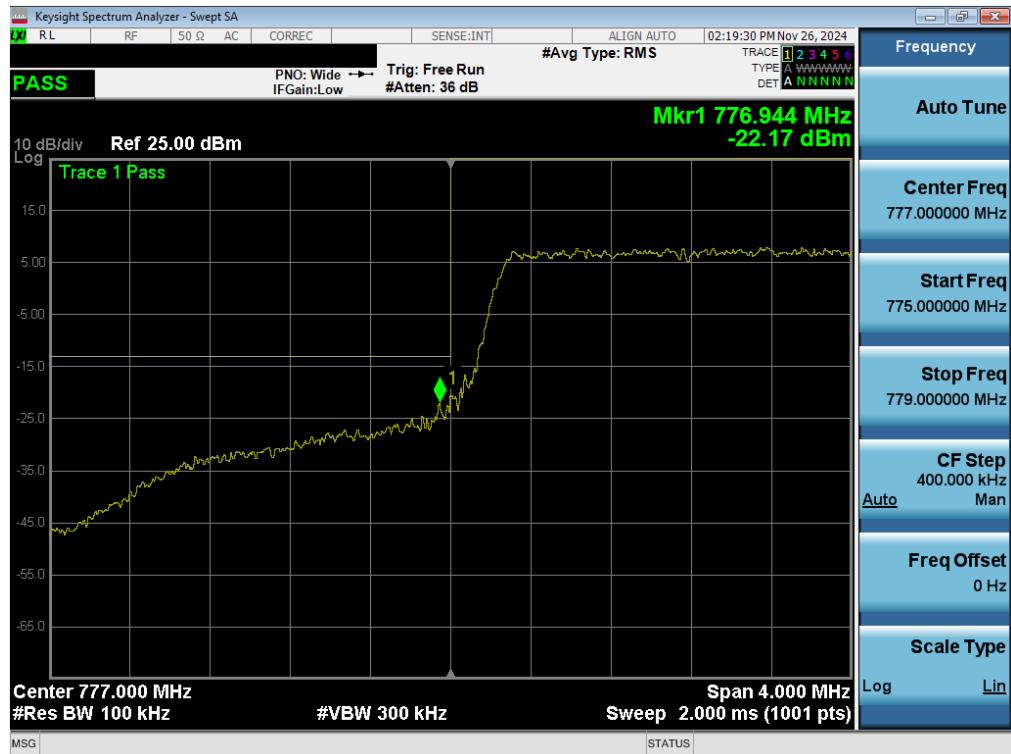
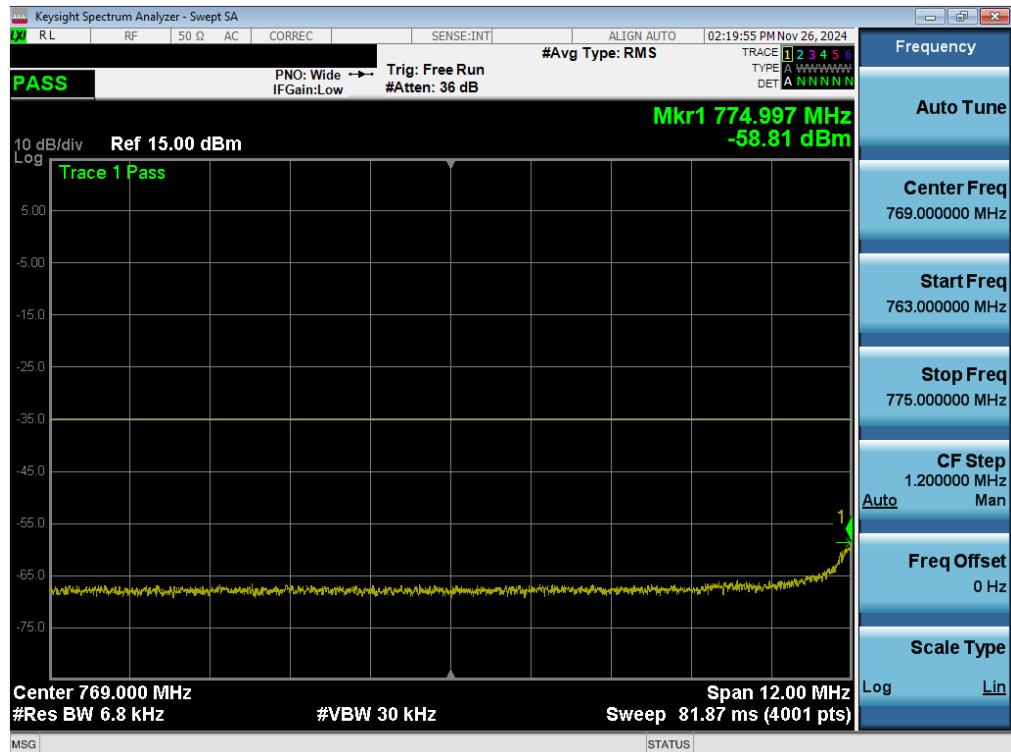
Plot 7-183. Upper Band Edge Plot (LTE Band 71 - 5MHz QPSK – Full RB - Ant 2)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2411190103-03-R3.C3K	Test Dates: 12/3/2024 - 2/14/2025	EUT Type: Full Modular		Page 134 of 205

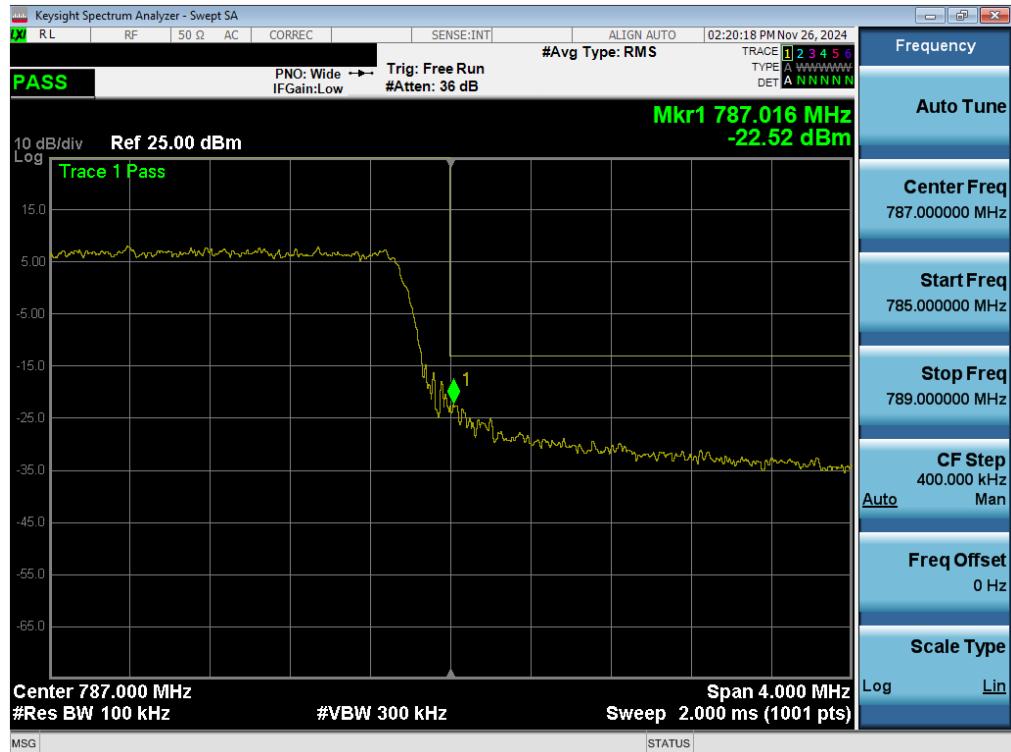
LTE Band 12– Ant 2

Plot 7-184. Lower Band Edge Plot (LTE Band 12 – 1.4MHz QPSK – Full RB - Ant 2)

Plot 7-185. Upper Band Edge Plot (LTE Band 12 – 1.4MHz QPSK – Full RB - Ant 2)

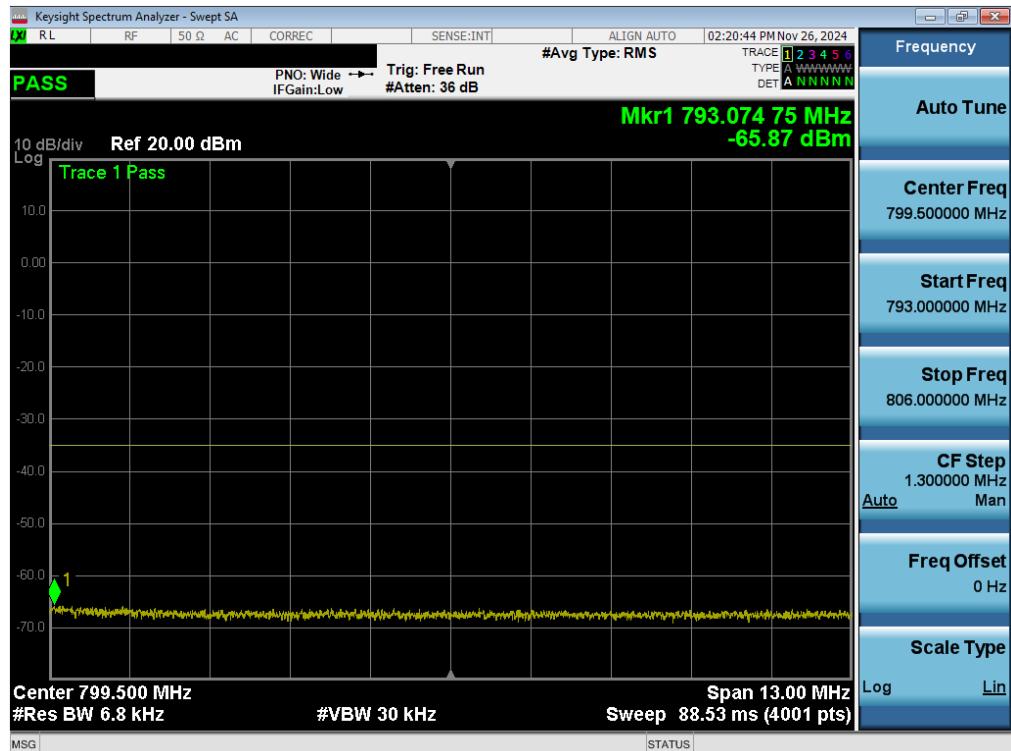
FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-03-R3.C3K	Test Dates: 12/3/2024 - 2/14/2025	EUT Type: Full Modular	Page 135 of 205

LTE Band 13 – Ant 2

Plot 7-186. Lower Band Edge Plot (LTE Band 13 - 5MHz QPSK – Full RB - Ant 2)

Plot 7-187. Lower Emission Mask Plot (LTE Band 13 - 5MHz QPSK – Full RB - Ant 2)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2411190103-03-R3.C3K	Test Dates: 12/3/2024 - 2/14/2025	EUT Type: Full Modular		Page 136 of 205



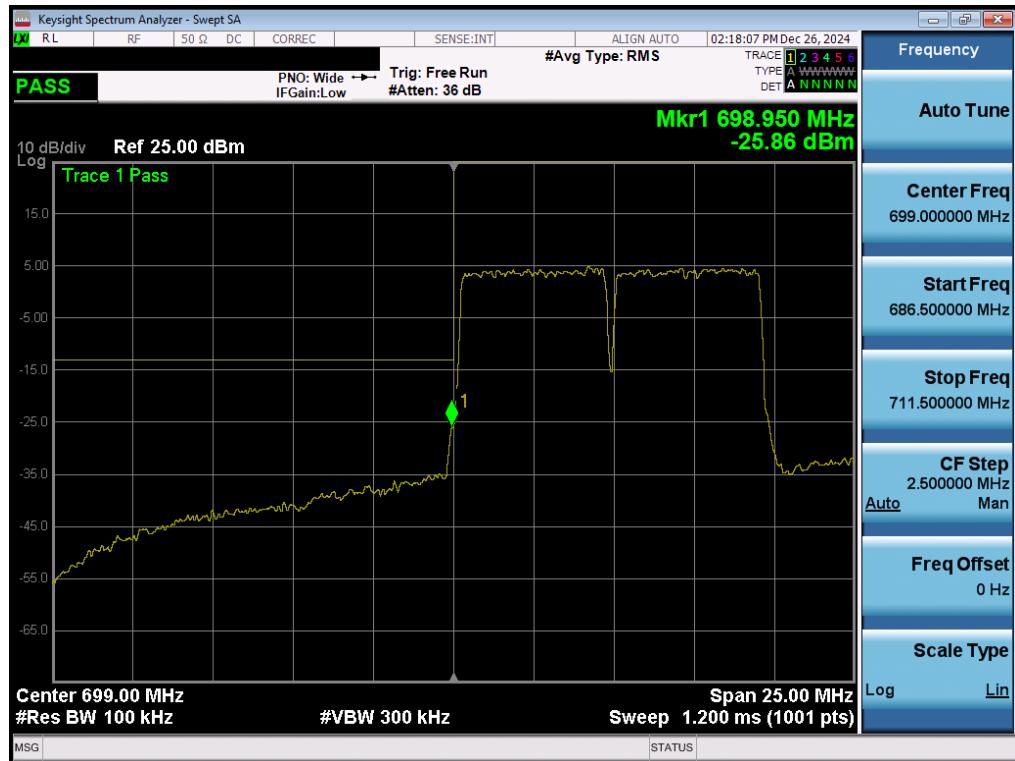
Plot 7-188. Upper Band Edge Plot (LTE Band 13 - 5MHz QPSK – Full RB - Ant 2)



Plot 7-189. Upper Emission Mask Plot (LTE Band 13 - 5MHz QPSK – Full RB - Ant 2)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Uplink CA LTE Band 12 – Ant 2

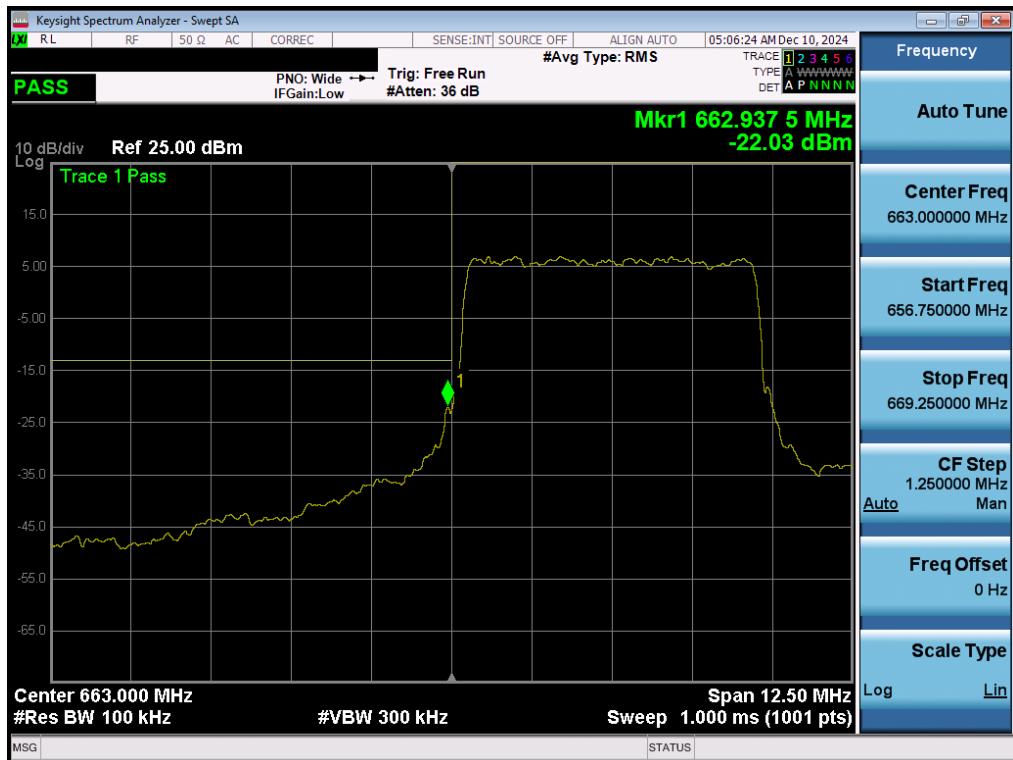


Plot 7-190. Lower Band Edge Plot (ULCA LTE Band 12 - 5+5MHz - Full RB – Ant 2)



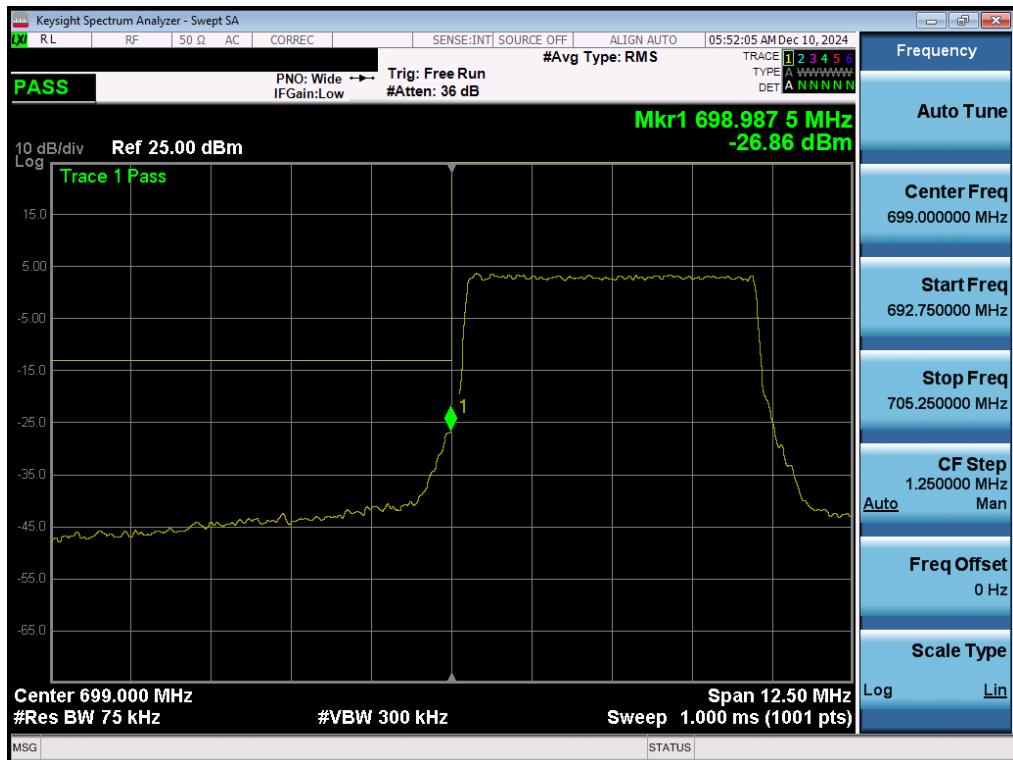
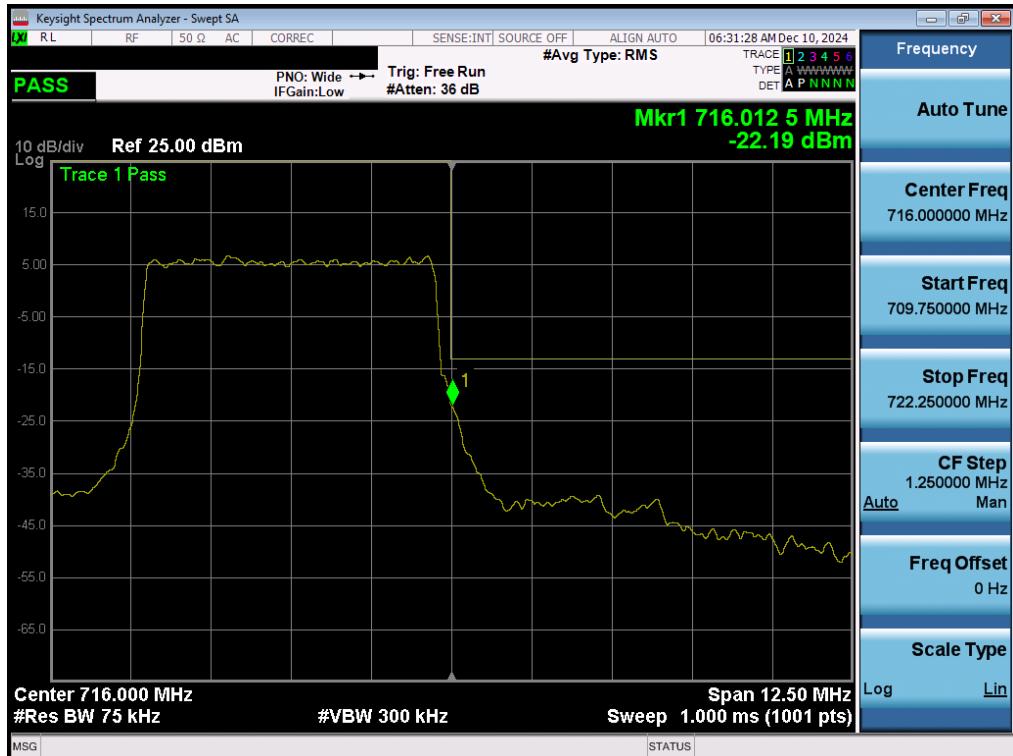
Plot 7-191. Upper Band Edge Plot (ULCA LTE Band 12 - 5+5MHz - Full RB – Ant 2)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-03-R3.C3K	Test Dates: 12/3/2024 - 2/14/2025	EUT Type: Full Modular	Page 138 of 205

NR Band n71 – Ant 2

Plot 7-192. Lower Band Edge Plot (NR Band n71 – 5.0MHz - Full RB - Ant 2)

Plot 7-193. Upper Band Edge Plot (NR Band n71 – 5.0MHz - Full RB - Ant 2)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2411190103-03-R3.C3K	Test Dates: 12/3/2024 - 2/14/2025	EUT Type: Full Modular		Page 139 of 205

NR Band n12 – Ant 2

Plot 7-194. Lower Band Edge Plot (NR Band n12 – 5.0MHz - Full RB - Ant 2)

Plot 7-195. Upper Band Edge Plot (NR Band n12 – 5.0MHz - Full RB - Ant 2)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2411190103-03-R3.C3K	Test Dates: 12/3/2024 - 2/14/2025	EUT Type: Full Modular		Page 140 of 205

Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
WCDMA1700	N/A	Low	Band Edge	-21.95	-13	-8.95
		Low	Extended	-14.98	-13	-1.98
		High	Band Edge	-25.56	-13	-12.56
		High	Extended	-18.12	-13	-5.12
LTE Band 66/4	20MHz	Low	Band Edge	-25.63	-13	-12.63
		Low	Extended	-23.60	-13	-10.60
		High (B4)	Band Edge	-26.46	-13	-13.46
		High (B4)	Extended	-24.16	-13	-11.16
		High (B66)	Band Edge	-25.06	-13	-12.06
		High (B66)	Extended	-23.04	-13	-10.04
	15MHz	Low	Band Edge	-25.29	-13	-12.29
		Low	Extended	-22.58	-13	-9.58
		High (B4)	Band Edge	-26.89	-13	-13.89
		High (B4)	Extended	-23.30	-13	-10.30
		High (B66)	Band Edge	-25.87	-13	-12.87
		High (B66)	Extended	-22.75	-13	-9.75
	10MHz	Low	Band Edge	-24.63	-13	-11.63
		Low	Extended	-20.62	-13	-7.62
		High (B4)	Band Edge	-23.72	-13	-10.72
		High (B4)	Extended	-20.98	-13	-7.98
		High (B66)	Band Edge	-24.59	-13	-11.59
		High (B66)	Extended	-21.73	-13	-8.73
	5MHz	Low	Band Edge	-22.17	-13	-9.17
		Low	Extended	-22.87	-13	-9.87
		High (B4)	Band Edge	-22.74	-13	-9.74
		High (B4)	Extended	-23.48	-13	-10.48
		High (B66)	Band Edge	-21.84	-13	-8.84
		High (B66)	Extended	-23.07	-13	-10.07
	3MHz	Low	Band Edge	-18.71	-13	-5.71
		Low	Extended	-25.33	-13	-12.33
		High (B4)	Band Edge	-19.85	-13	-6.85
		High (B4)	Extended	-27.11	-13	-14.11
		High (B66)	Band Edge	-19.37	-13	-6.37
		High (B66)	Extended	-24.45	-13	-11.45
	1.4MHz	Low	Band Edge	-22.49	-13	-9.49
		Low	Extended	-21.74	-13	-8.74
		High (B4)	Band Edge	-22.25	-13	-9.25
		High (B4)	Extended	-22.81	-13	-9.81
		High (B66)	Band Edge	-21.40	-13	-8.40
		High (B66)	Extended	-21.06	-13	-8.06

Table 7-30. Conducted Band Edge Test Results – Ant 1

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT				Approved by: Technical Manager
Test Report S/N: 1M2411190103-03-R3.C3K	Test Dates: 12/3/2024 - 2/14/2025	EUT Type: Full Modular			Page 141 of 205

Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
NR Band n66	40 MHz	Low	Band Edge	-25.70	-13	-12.70
		Low	Extended	-29.75	-13	-16.75
	30 MHz	High	Band Edge	-22.72	-13	-9.72
		High	Extended	-32.99	-13	-19.99
	25 MHz	Low	Band Edge	-26.22	-13	-13.22
		Low	Extended	-27.88	-13	-14.88
		High	Band Edge	-22.14	-13	-9.14
		High	Extended	-26.34	-13	-13.34
	20 MHz	Low	Band Edge	-29.01	-13	-16.01
		Low	Extended	-29.01	-13	-16.01
		High	Band Edge	-20.73	-13	-7.73
		High	Extended	-20.73	-13	-7.73
	15 MHz	Low	Band Edge	-27.21	-13	-14.21
		Low	Extended	-22.37	-13	-9.37
		High	Band Edge	-26.77	-13	-13.77
		High	Extended	-26.08	-13	-13.08
	10 MHz	Low	Band Edge	-27.63	-13	-14.63
		Low	Extended	-22.10	-13	-9.10
		High	Band Edge	-27.42	-13	-14.42
		High	Extended	-21.83	-13	-8.83
	5 MHz	Low	Band Edge	-24.97	-13	-11.97
		Low	Extended	-18.93	-13	-5.93
		High	Band Edge	-27.34	-13	-14.34
		High	Extended	-18.30	-13	-5.30
LTE Band 66B/C ULCA	40 MHz	Low	Band Edge	-23.27	-13	-10.27
		Low	Extended	-33.29	-13	-20.29
		High	Band Edge	-22.16	-13	-9.16
		High	Extended	-29.85	-13	-16.85
		Low	Band Edge	-15.78	-13	-2.78
		Low	Extended	-24.61	-13	-11.61
		High	Band Edge	-15.86	-13	-2.86
		High	Extended	-27.36	-13	-14.36

Table 7-31. Conducted Band Edge Test Results – Ant 1

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT				Approved by: Technical Manager
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WCDMA AWS – Ant 1


FCC ID: C3K2114	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
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Plot 7-198. Upper Band Edge Plot (WCDMA AWS – Ch. 1513 – Ant 1)



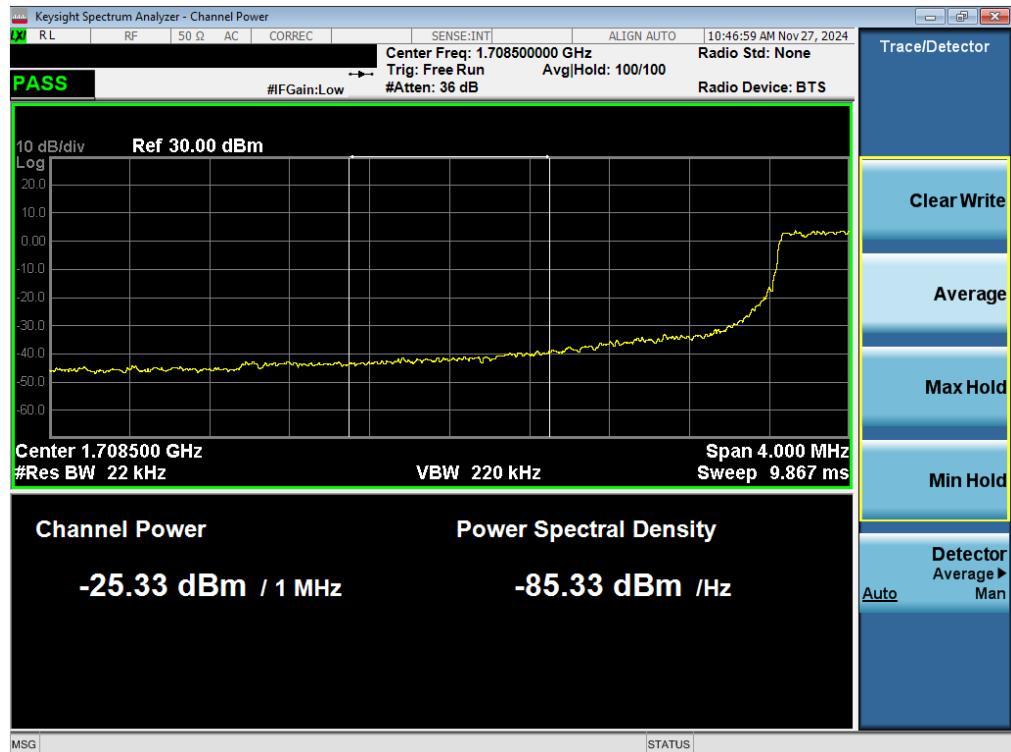
Plot 7-199. Upper Extended Band Edge Plot (WCDMA AWS – Ch. 1513 – Ant 1)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 66/4 – Ant 1



Plot 7-200. Lower Band Edge Plot (LTE Band 66/4 - 3MHz QPSK – Full RB - Ant 1)

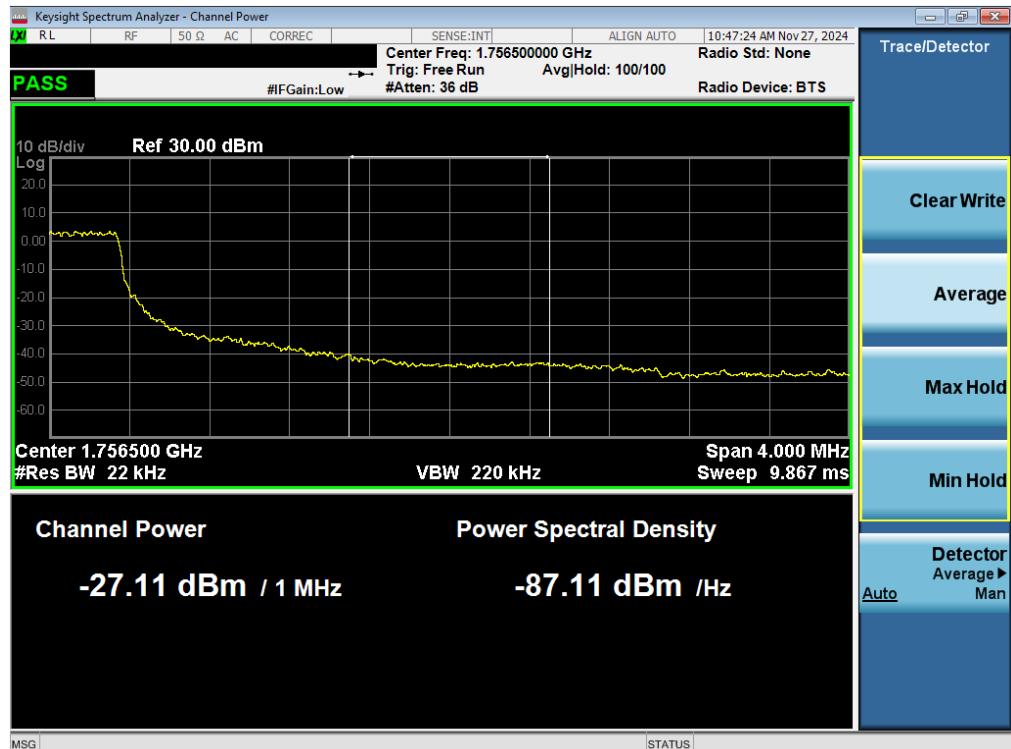


Plot 7-201. Lower Extended Band Edge Plot (LTE Band 66/4 - 3MHz QPSK – Full RB - Ant 1)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-202. Upper Band Edge Plot (LTE Band 4 - 3MHz QPSK – Full RB - Ant 1)

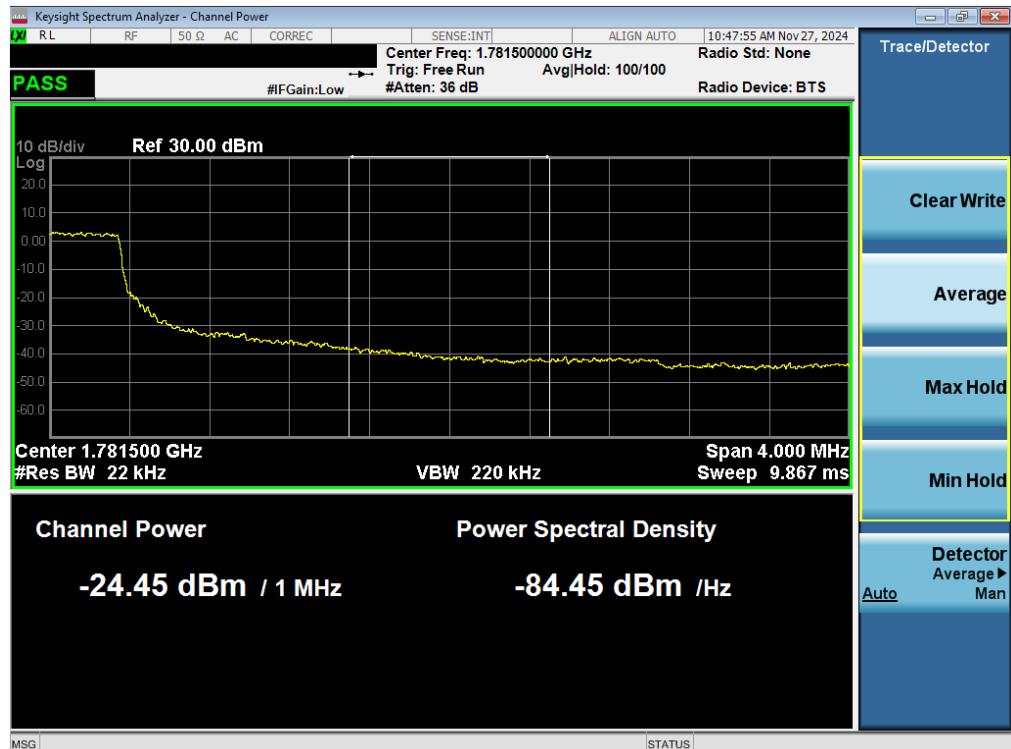


Plot 7-203. Upper Extended Band Edge Plot (LTE Band 4 - 3MHz QPSK – Full RB - Ant 1)

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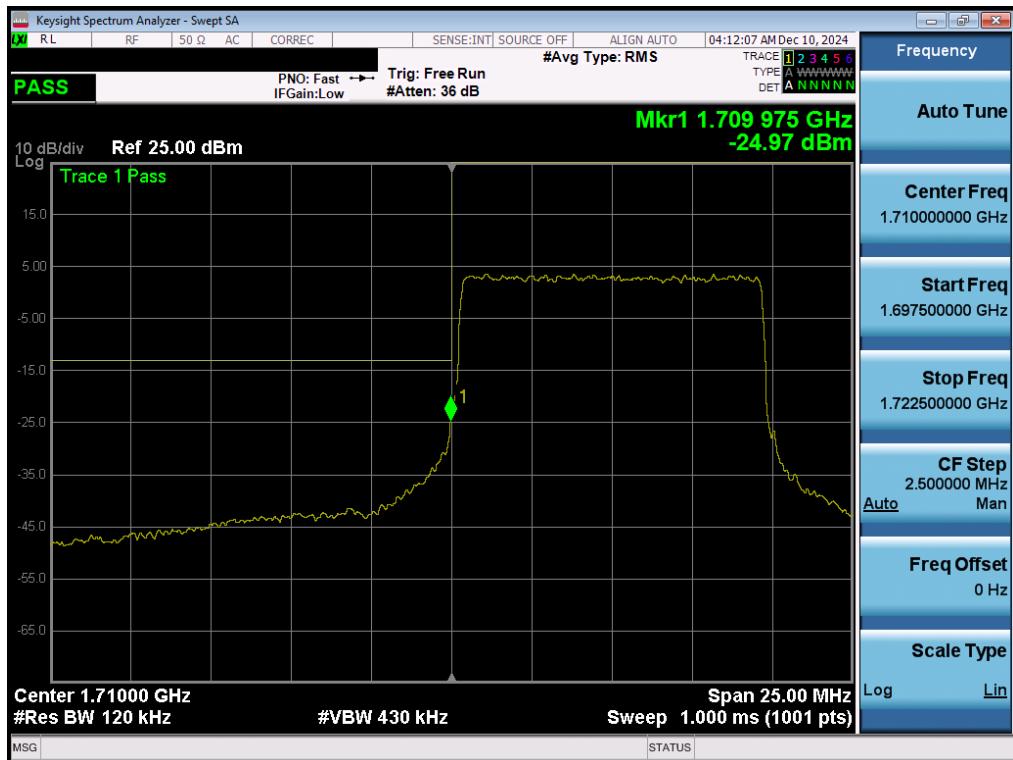
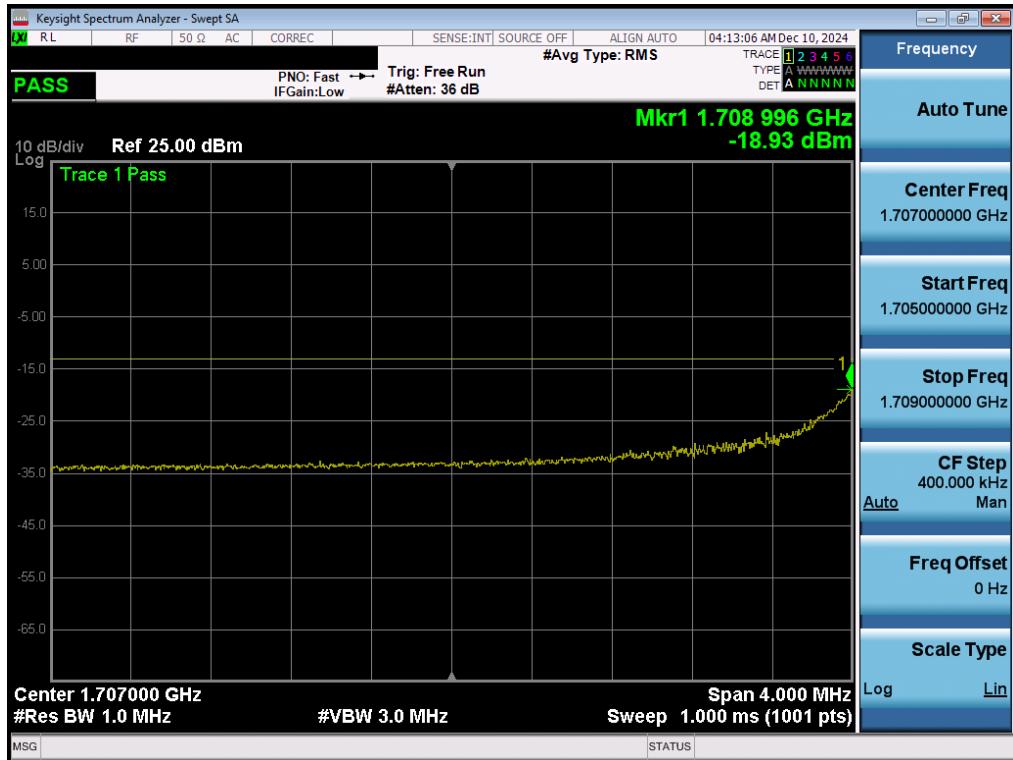


Plot 7-204. Upper Band Edge Plot (LTE Band 66 - 3MHz QPSK – Full RB - Ant 1)



Plot 7-205. Upper Extended Band Edge Plot (LTE Band 66 - 3MHz QPSK – Full RB - Ant 1)

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NR Band n66 – Ant 1

Plot 7-206. Lower Band Edge Plot (NR Band n66 – 10.0MHz - Full RB - Ant 1)

Plot 7-207. Lower Extended Band Edge Plot (NR Band n66 – 10.0MHz - Full RB - Ant 1)

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