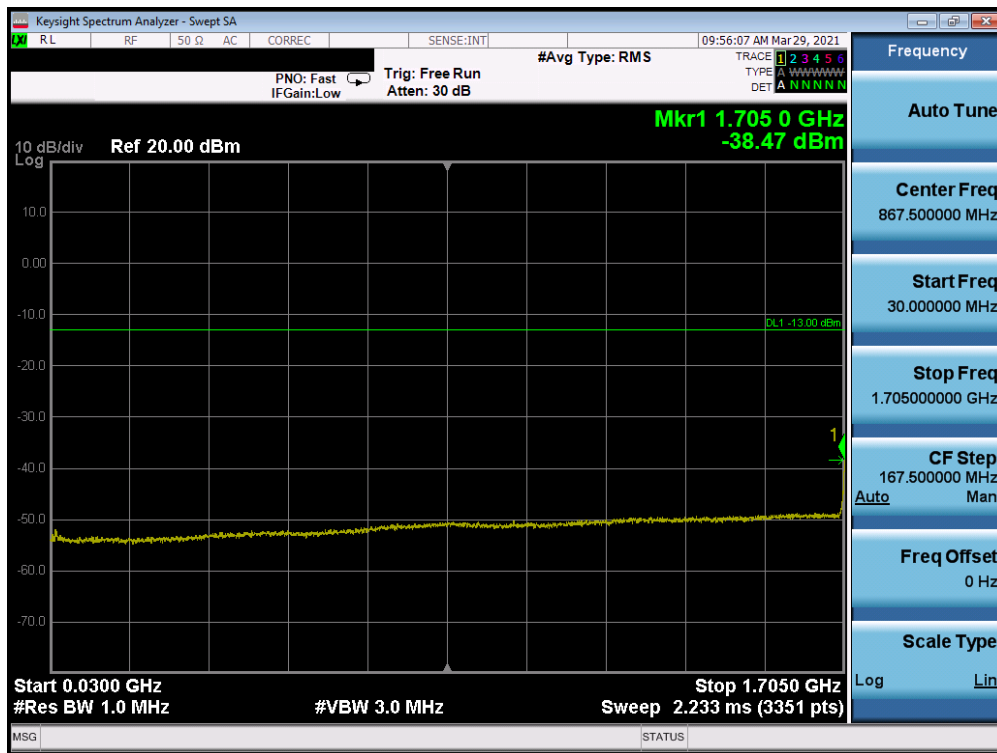
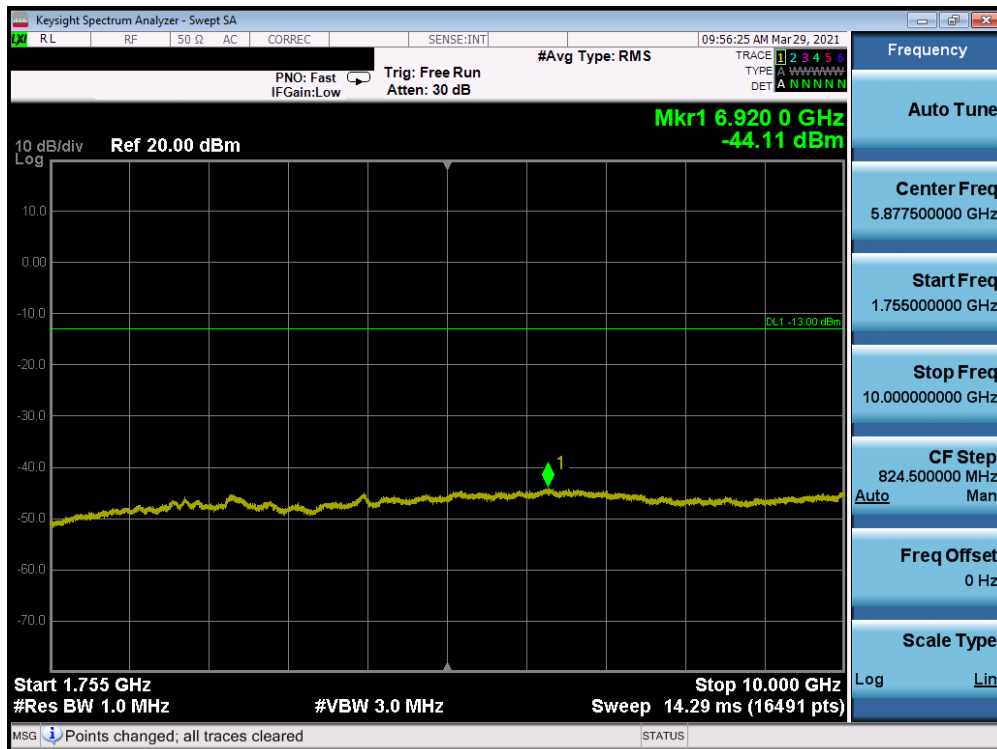


WCDMA AWS

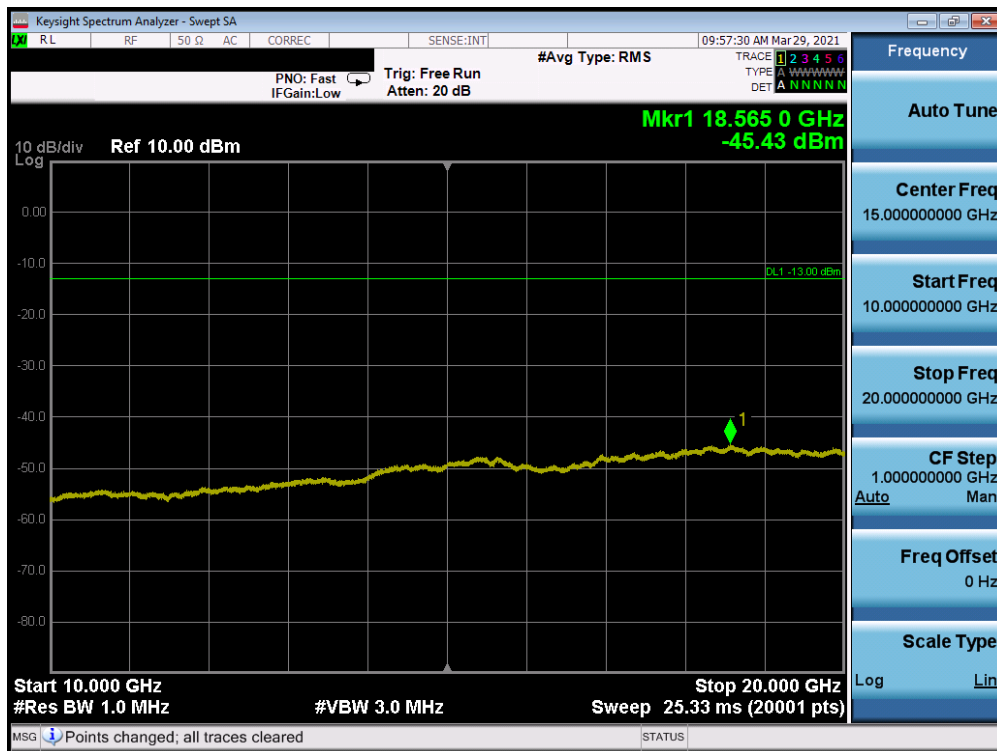


Plot 7-80. CSE (WCDMA Ch. 1312- Low Channel)

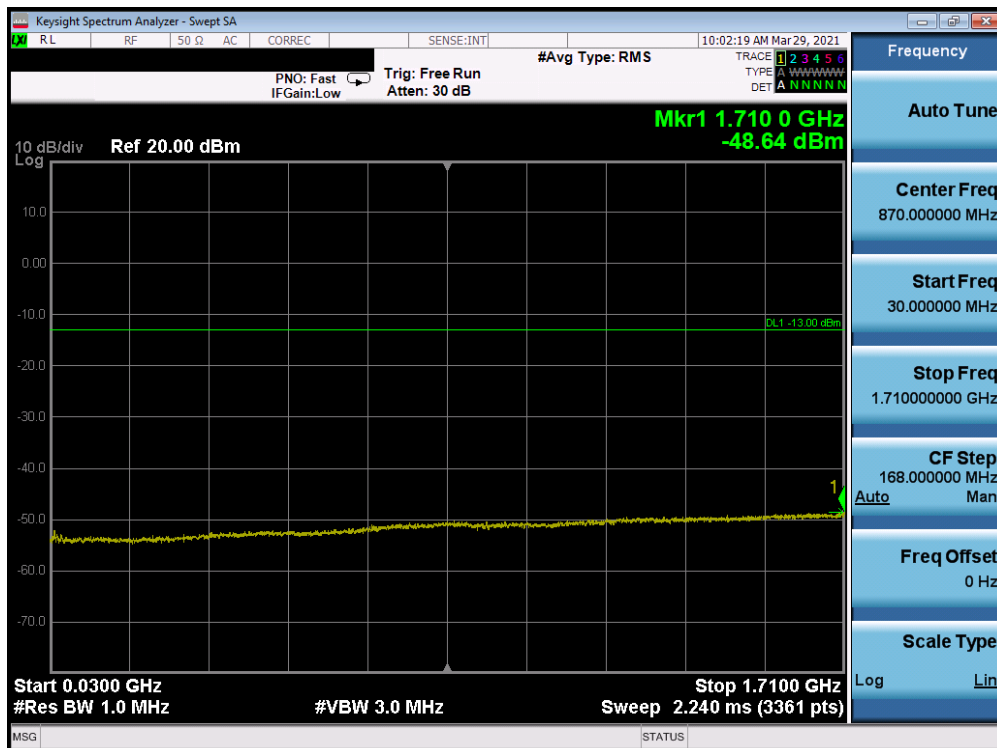


Plot 7-81. CSE (WCDMA Ch. 1312- Low Channel)


FCC ID: BCGA2603	PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080051-03.BCG	Test Dates: 6/7/2021 - 7/30/2021	EUT Type: Tablet Device	Page 59 of 158

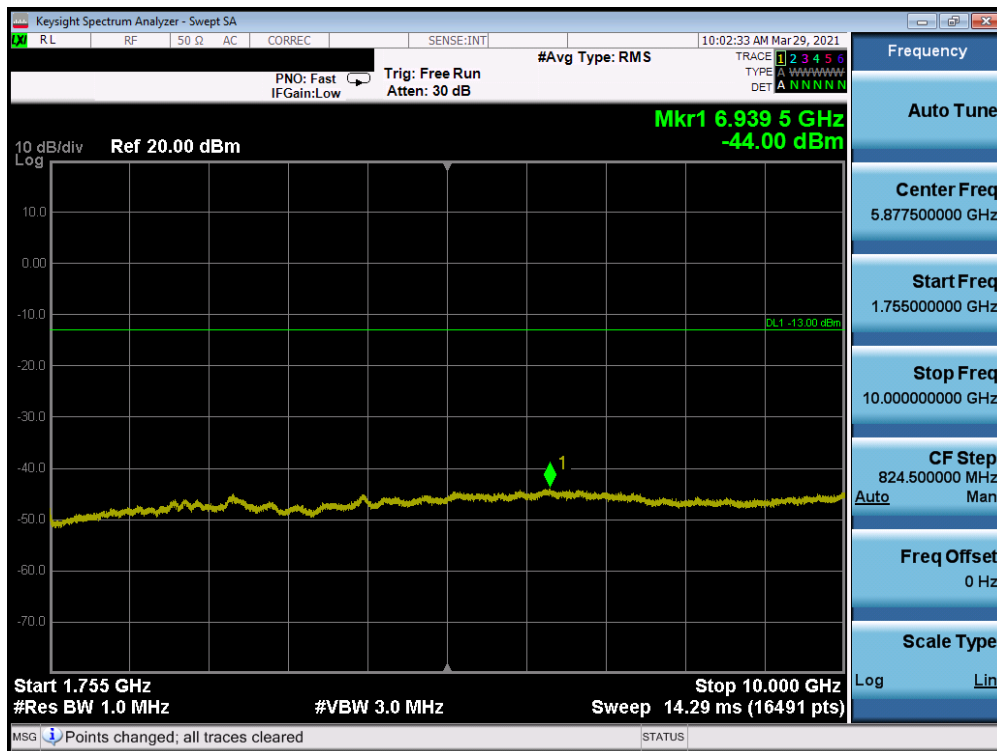


Plot 7-82. CSE (WCDMA Ch. 1312- Low Channel)

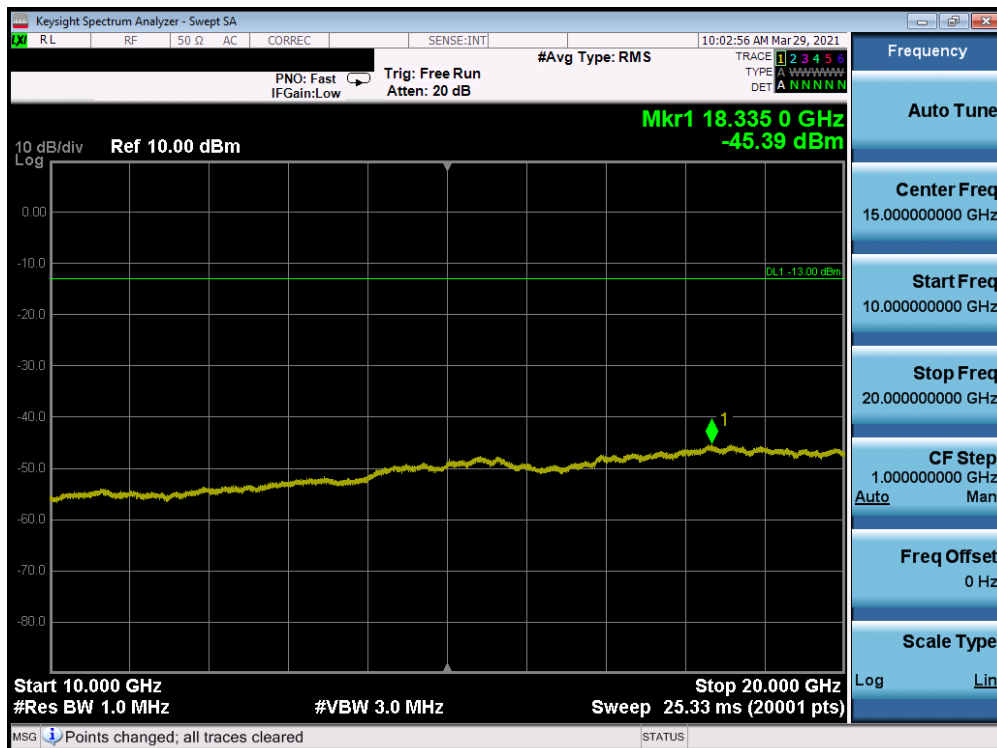


Plot 7-83. CSE (WCDMA Ch. 1413- Mid Channel)


FCC ID: BCGA2603	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080051-03.BCG	Test Dates: 6/7/2021 - 7/30/2021	EUT Type: Tablet Device	Page 60 of 158

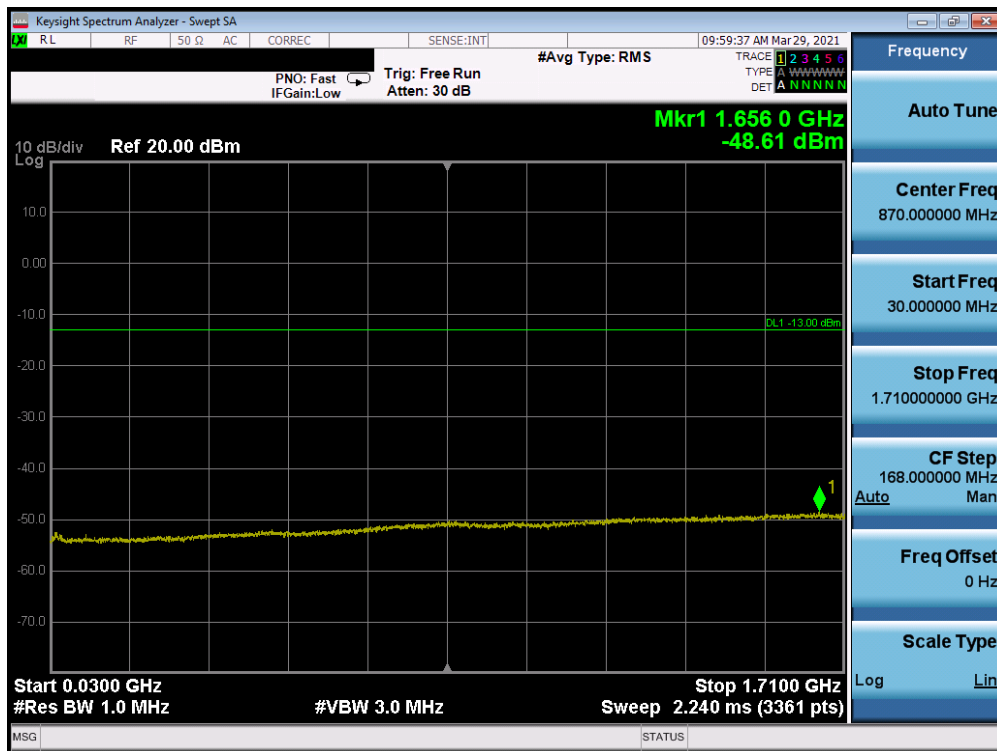


Plot 7-84. CSE (WCDMA Ch. 1413- Mid Channel)

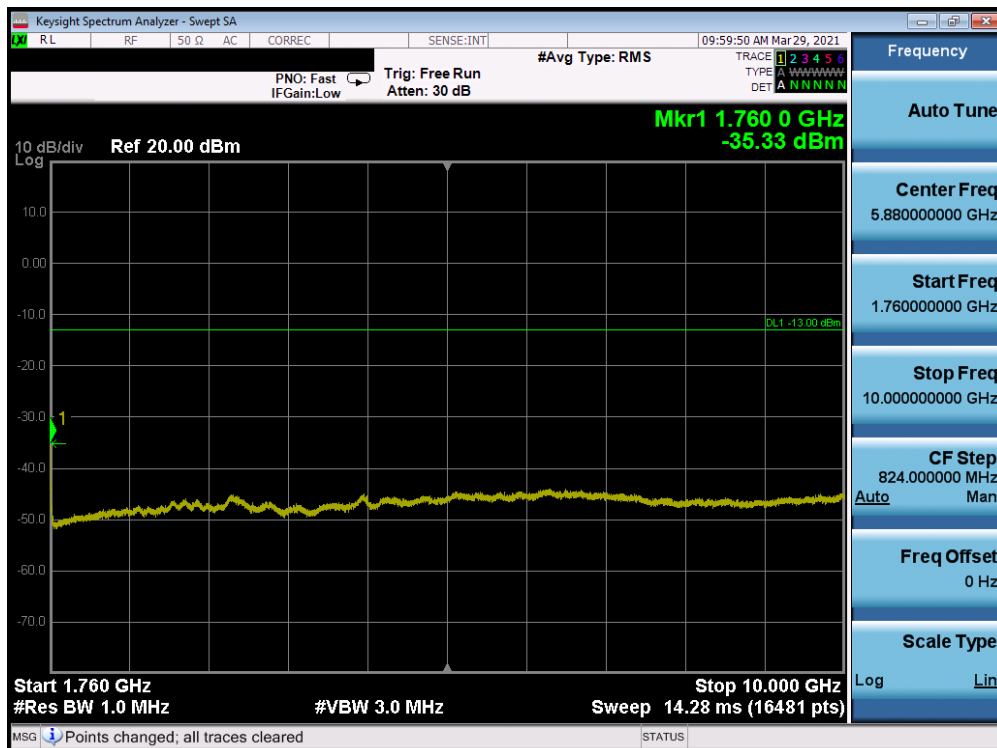


Plot 7-85. CSE (WCDMA Ch. 1413- Mid Channel)

FCC ID: BCGA2603	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080051-03.BCG	Test Dates: 6/7/2021 - 7/30/2021	EUT Type: Tablet Device	Page 61 of 158

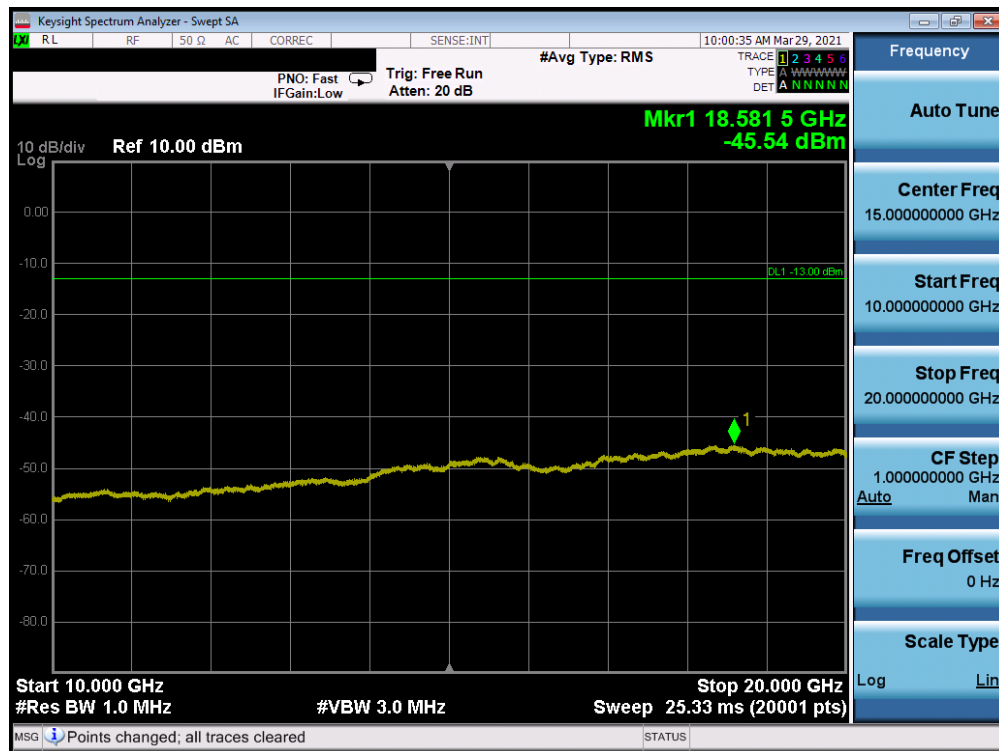


Plot 7-86. CSE (WCDMA Ch. 1513- High Channel)



Plot 7-87. CSE (WCDMA Ch. 1513- High Channel)

FCC ID: BCGA2603	PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080051-03.BCG	Test Dates: 6/7/2021 - 7/30/2021	EUT Type: Tablet Device	Page 62 of 158



Plot 7-88. CSE (WCDMA Ch. 1513- High Channel)

FCC ID: BCGA2603	PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080051-03.BCG	Test Dates: 6/7/2021 - 7/30/2021	EUT Type: Tablet Device	Page 63 of 158

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. All ports were tested and only the worst case data was reported.

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.

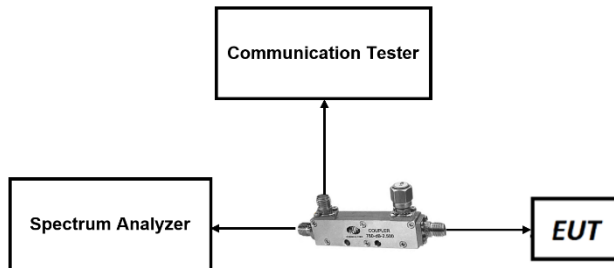




Figure 7-3. Test Instrument & Measurement Setup

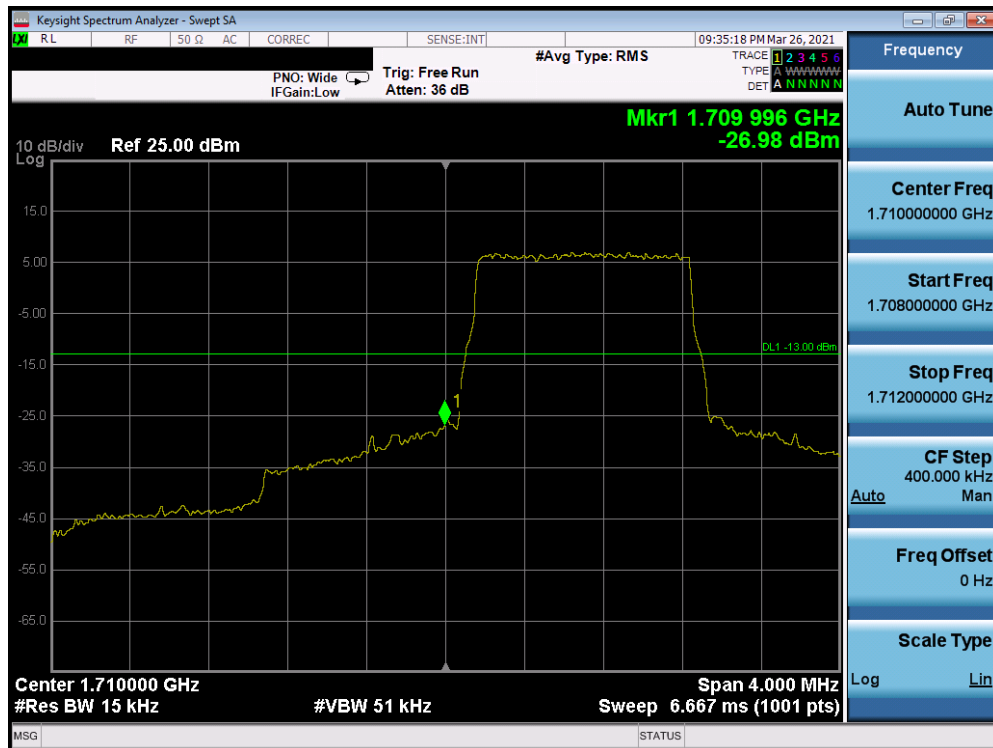
FCC ID: BCGA2603	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080051-03.BCG	Test Dates: 6/7/2021 - 7/30/2021	EUT Type: Tablet Device	Page 64 of 158

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.

FCC ID: BCGA2603	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080051-03.BCG	Test Dates: 6/7/2021 - 7/30/2021	EUT Type: Tablet Device	Page 65 of 158


LTE Band 66

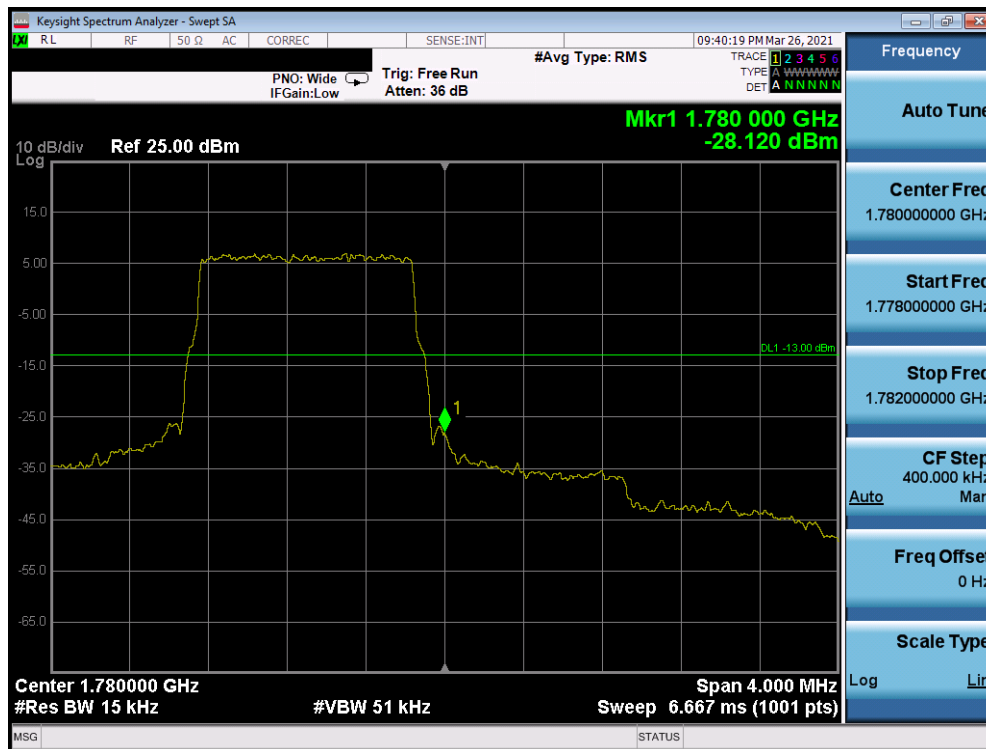


Plot 7-89. Lower Band Edge Plot (Band 66 - 1.4MHz QPSK - Full RB Configuration)

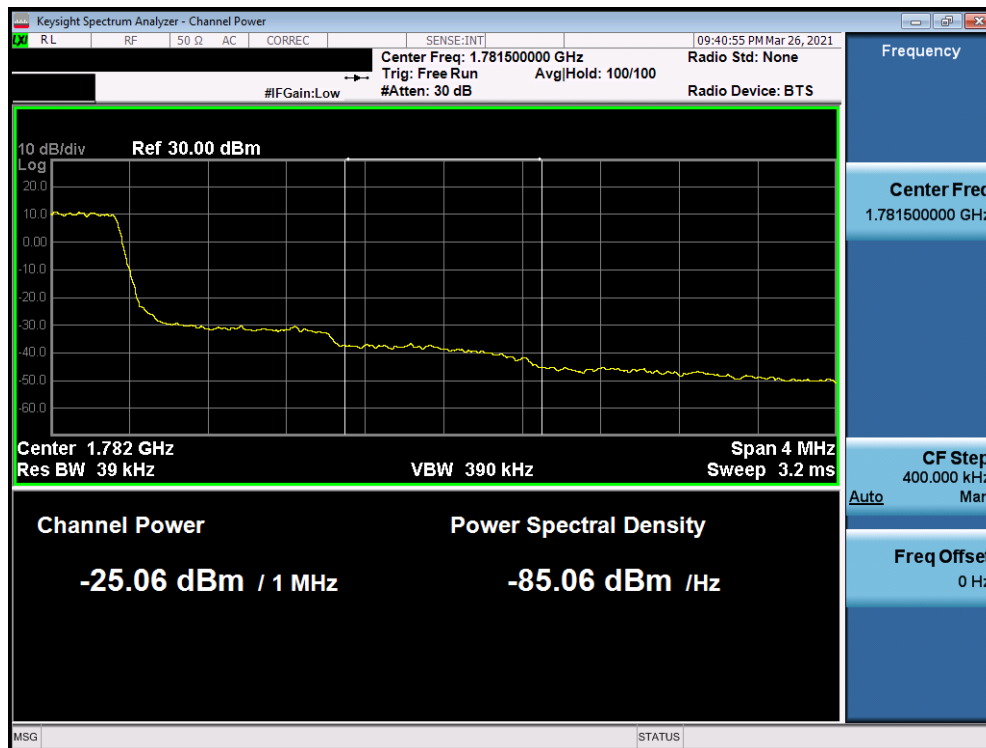


Plot 7-90. Lower Extended Band Edge Plot (Band 66 - 1.4MHz QPSK - Full RB Configuration)


FCC ID: BCGA2603	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080051-03.BCG	Test Dates: 6/7/2021 - 7/30/2021	EUT Type: Tablet Device	Page 66 of 158

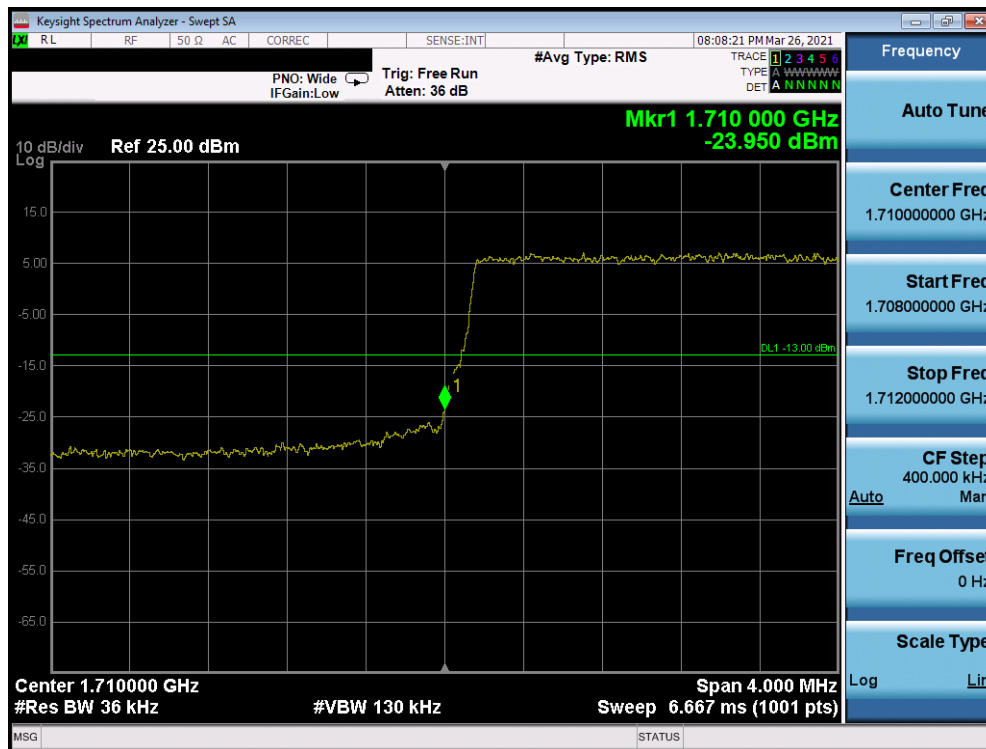


Plot 7-91. Upper Band Edge Plot (Band 66 - 1.4MHz QPSK - Full RB Configuration)

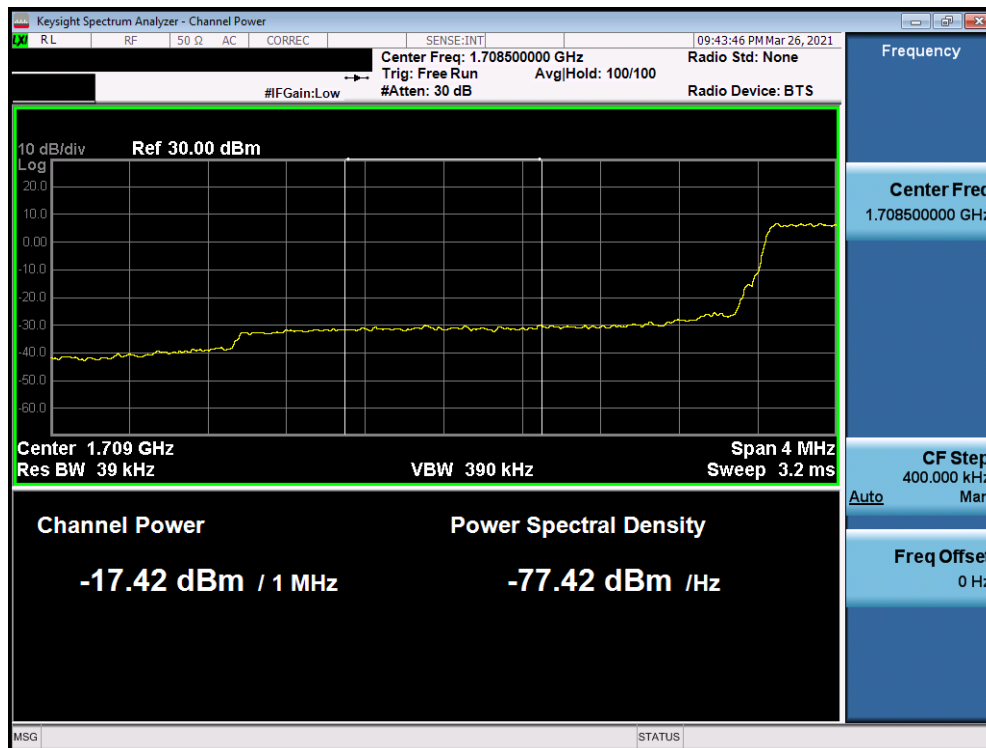


Plot 7-92. Upper Extended Band Edge Plot (Band 66 - 1.4MHz QPSK - Full RB Configuration)

FCC ID: BCGA2603	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080051-03.BCG	Test Dates: 6/7/2021 - 7/30/2021	EUT Type: Tablet Device	Page 67 of 158

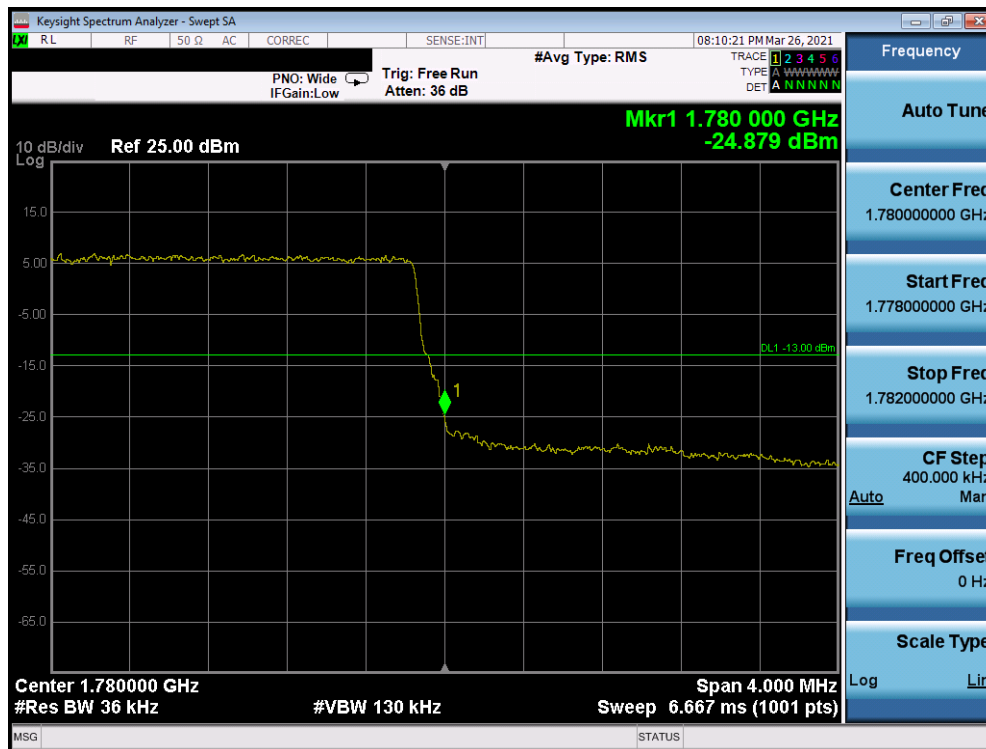


Plot 7-93. Lower Band Edge Plot (Band 66 - 3.0MHz QPSK - Full RB Configuration)

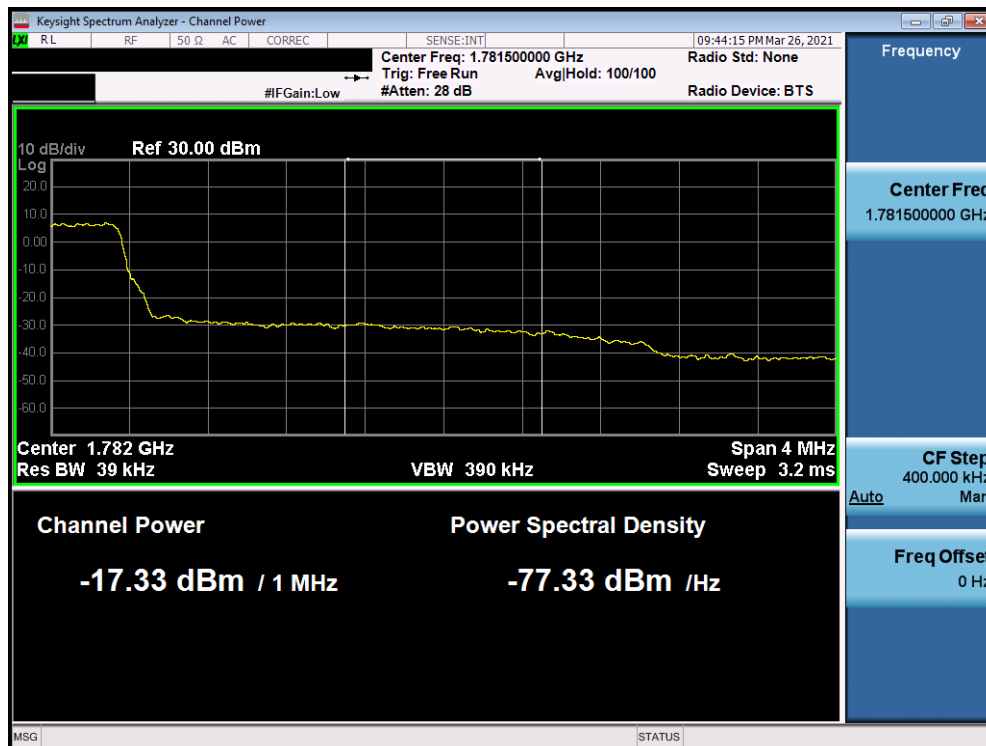


Plot 7-94. Lower Extended Band Edge Plot (Band 66 - 3.0MHz QPSK - Full RB Configuration)


FCC ID: BCGA2603	PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080051-03.BCG	Test Dates: 6/7/2021 - 7/30/2021	EUT Type: Tablet Device	Page 68 of 158

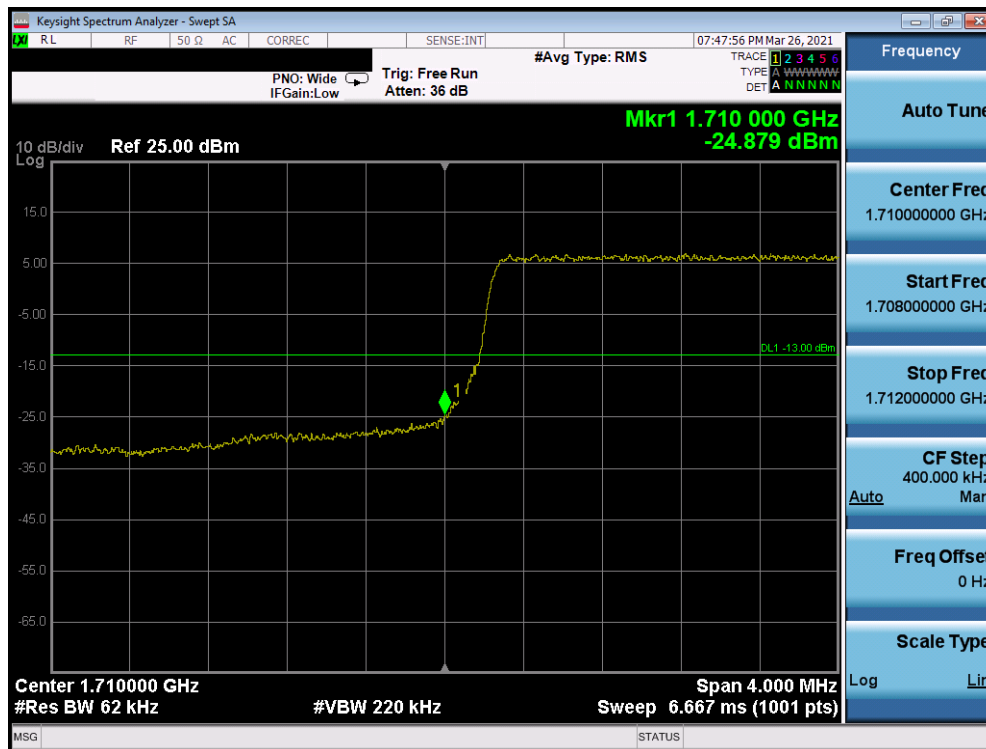


Plot 7-95. Upper Band Edge Plot (Band 66 - 3.0MHz QPSK - Full RB Configuration)

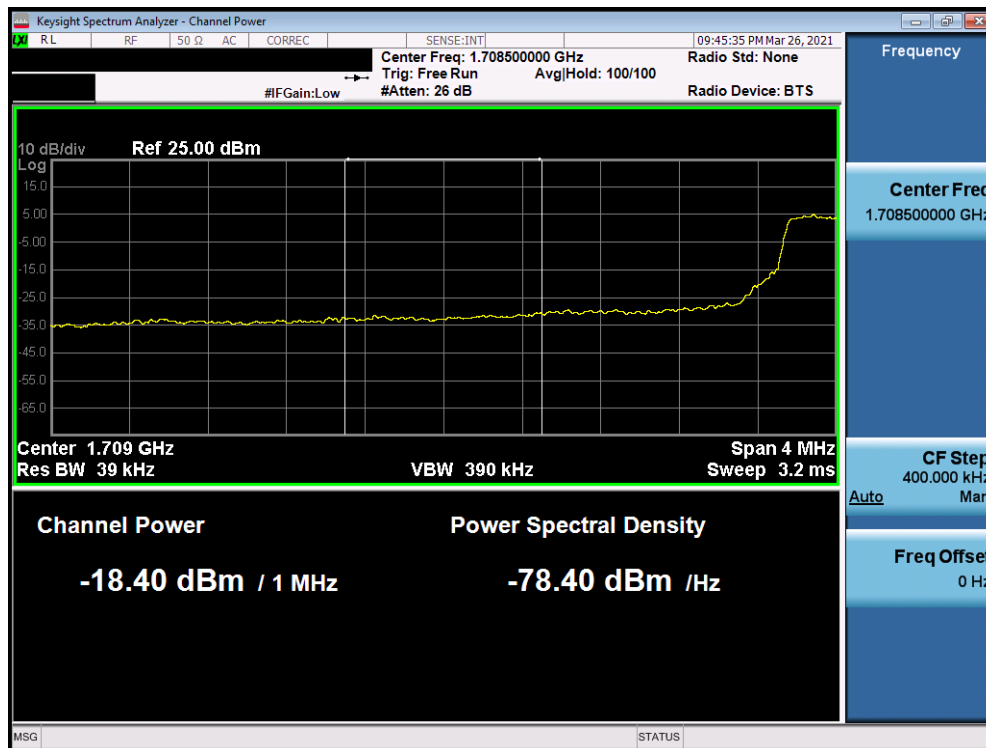


Plot 7-96. Upper Extended Band Edge Plot (Band 66 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2603	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080051-03.BCG	Test Dates: 6/7/2021 - 7/30/2021	EUT Type: Tablet Device	Page 69 of 158

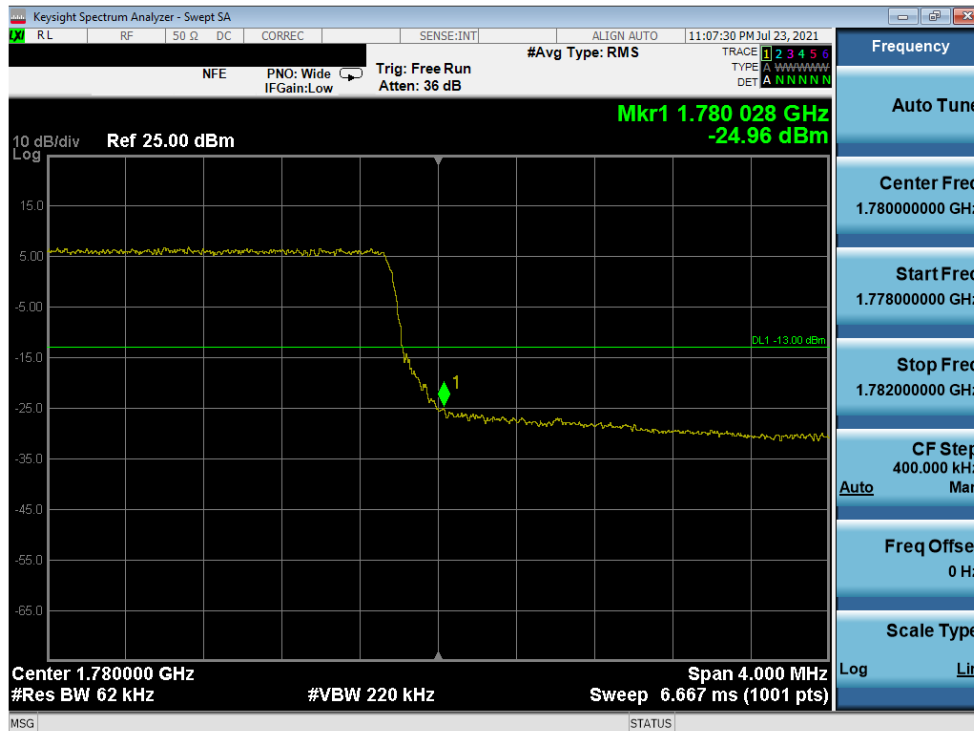


Plot 7-97. Lower Band Edge Plot (Band 66 - 5.0MHz QPSK - Full RB Configuration)

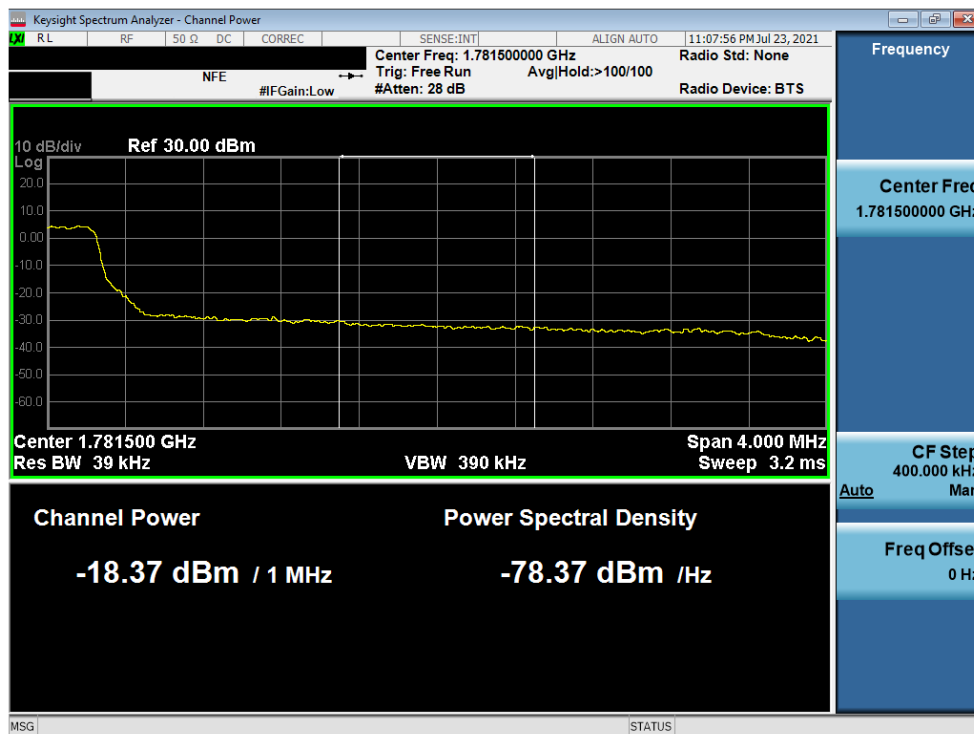


Plot 7-98. Lower Extended Band Edge Plot (Band 66 - 5.0MHz QPSK - Full RB Configuration)


FCC ID: BCGA2603	PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080051-03.BCG	Test Dates: 6/7/2021 - 7/30/2021	EUT Type: Tablet Device	Page 70 of 158

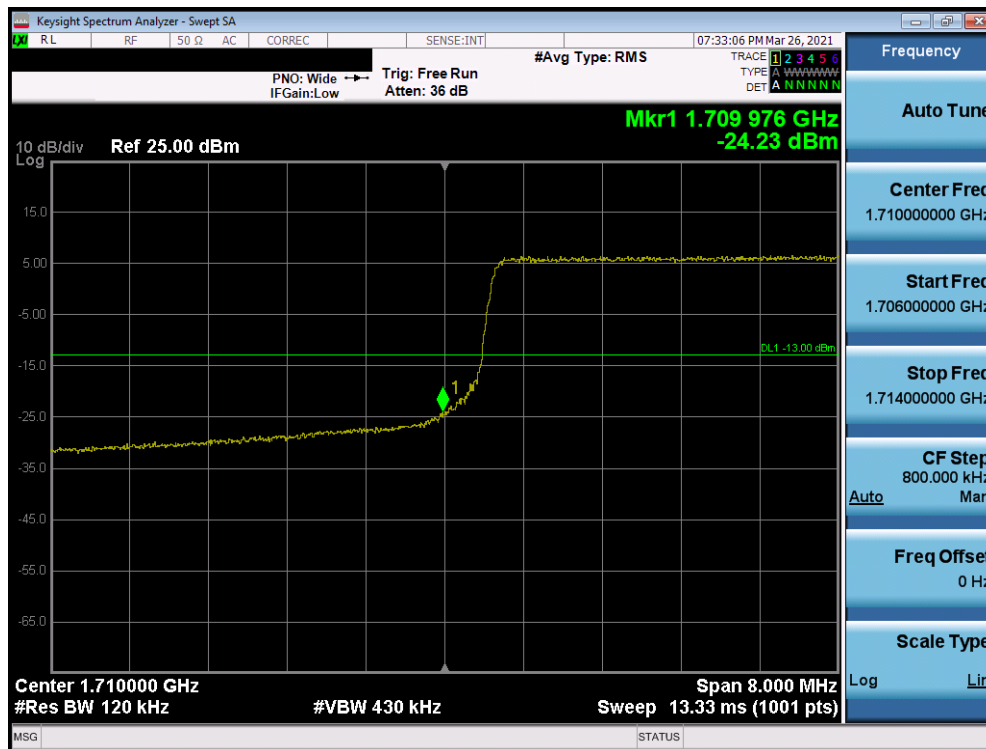


Plot 7-99. Upper Band Edge Plot (Band 66 - 5.0MHz QPSK - Full RB Configuration)

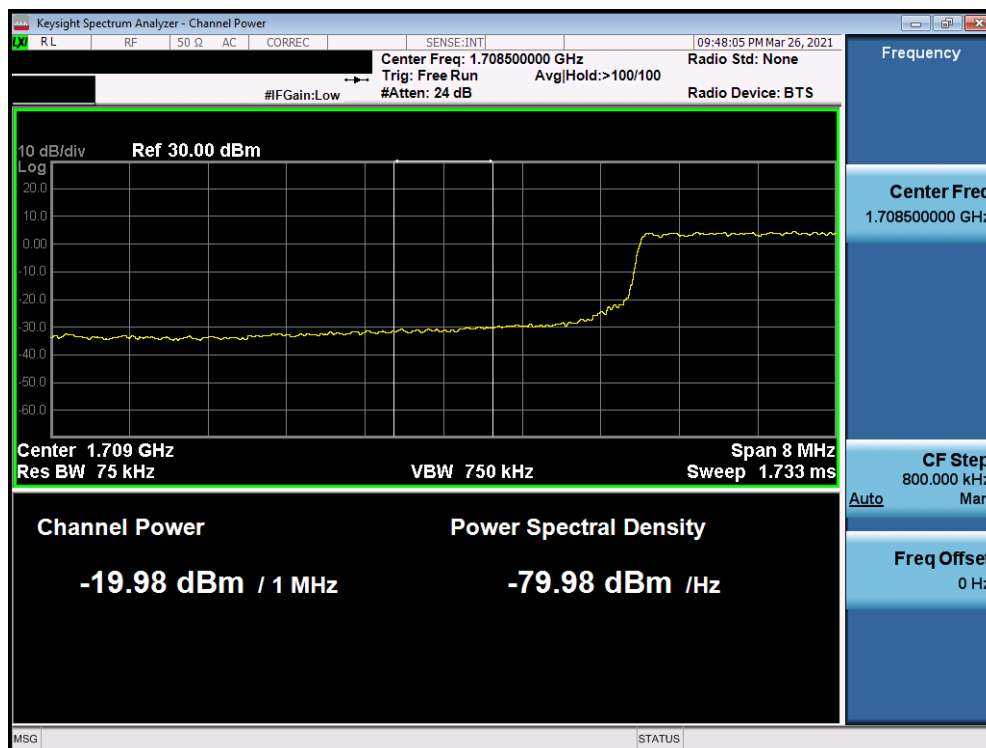


Plot 7-100. Upper Extended Band Edge Plot (Band 66 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2603	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080051-03.BCG	Test Dates: 6/7/2021 - 7/30/2021	EUT Type: Tablet Device	Page 71 of 158



Plot 7-101. Lower Band Edge Plot (Band 66 - 10.0MHz QPSK - Full RB Configuration)

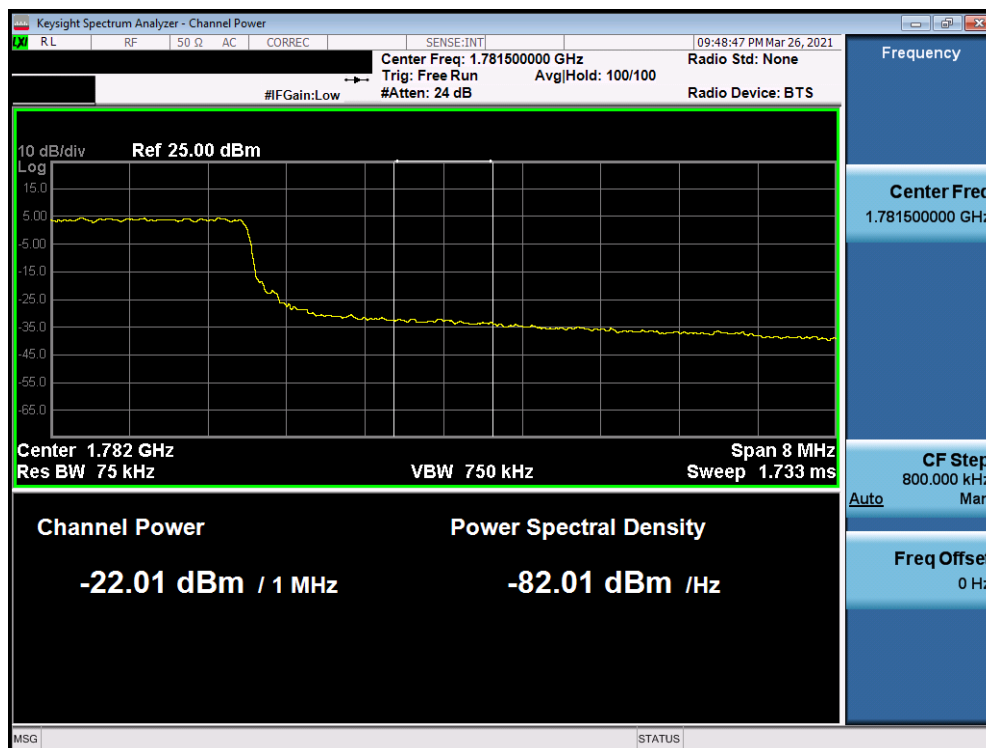


Plot 7-102. Lower Extended Band Edge Plot (Band 66 - 10.0MHz QPSK - Full RB Configuration)


FCC ID: BCGA2603	PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080051-03.BCG	Test Dates: 6/7/2021 - 7/30/2021	EUT Type: Tablet Device	Page 72 of 158

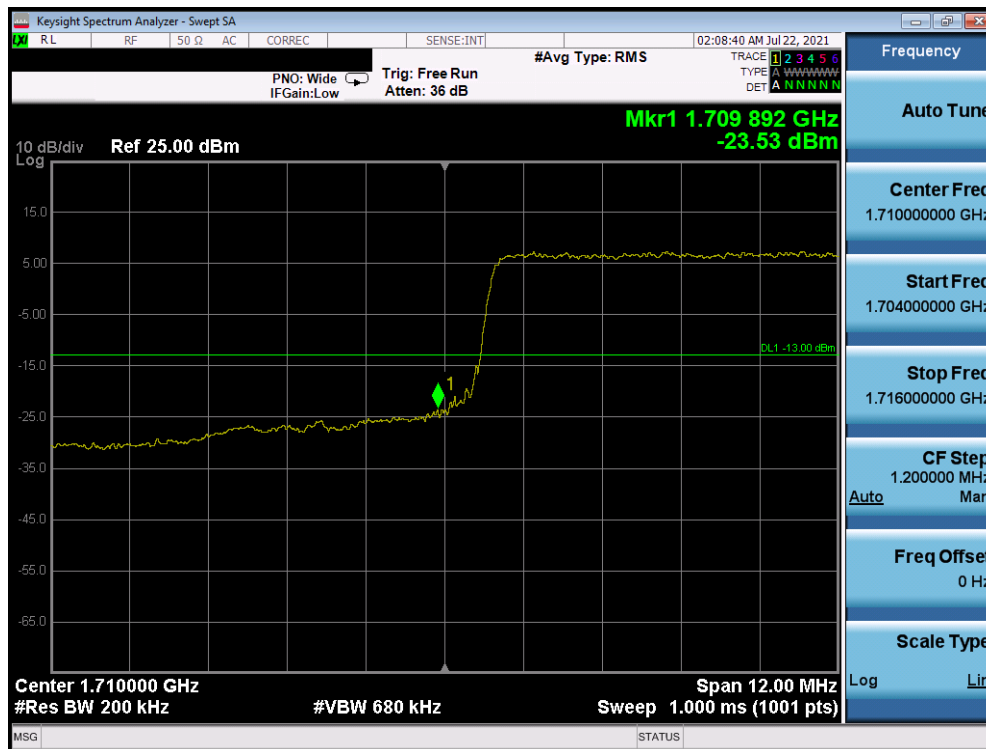


Plot 7-103. Upper Band Edge Plot (Band 66 - 10.0MHz QPSK - Full RB Configuration)

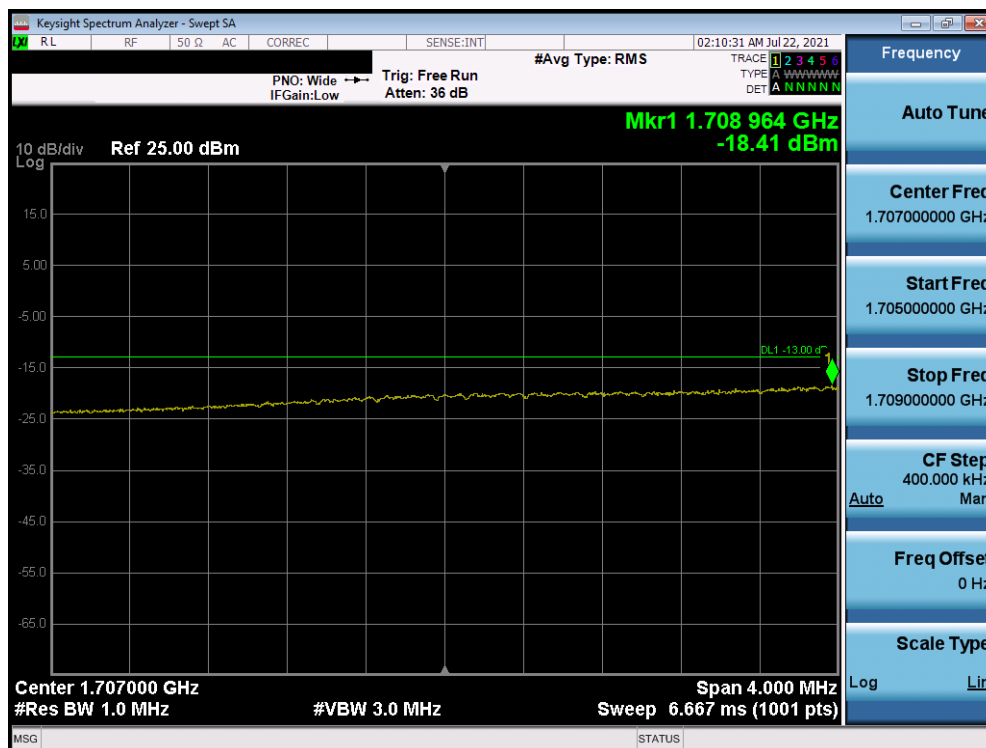


Plot 7-104. Upper Extended Band Edge Plot (Band 66 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2603	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080051-03.BCG	Test Dates: 6/7/2021 - 7/30/2021	EUT Type: Tablet Device	Page 73 of 158



Plot 7-105. Lower Band Edge Plot (Band 66 - 15.0MHz QPSK - Full RB Configuration)



Plot 7-106. Lower Extended Band Edge Plot (Band 66 - 15.0MHz QPSK - Full RB Configuration)


FCC ID: BCGA2603	PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080051-03.BCG	Test Dates: 6/7/2021 - 7/30/2021	EUT Type: Tablet Device	Page 74 of 158

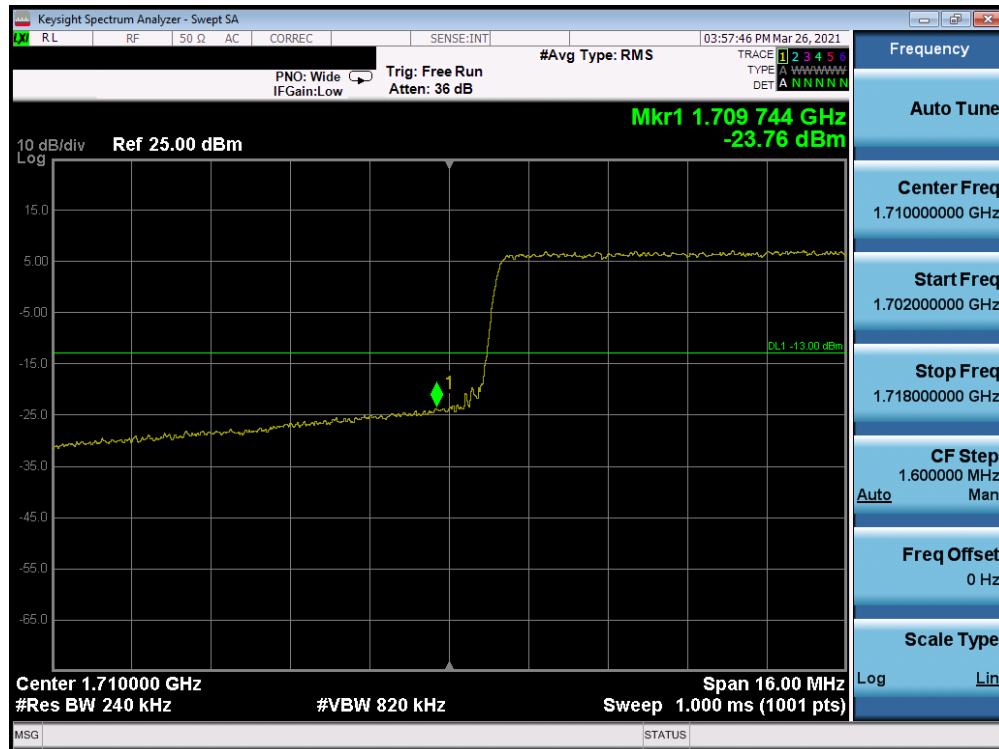


Plot 7-107. Upper Band Edge Plot (Band 66 - 15.0MHz QPSK - Full RB Configuration)

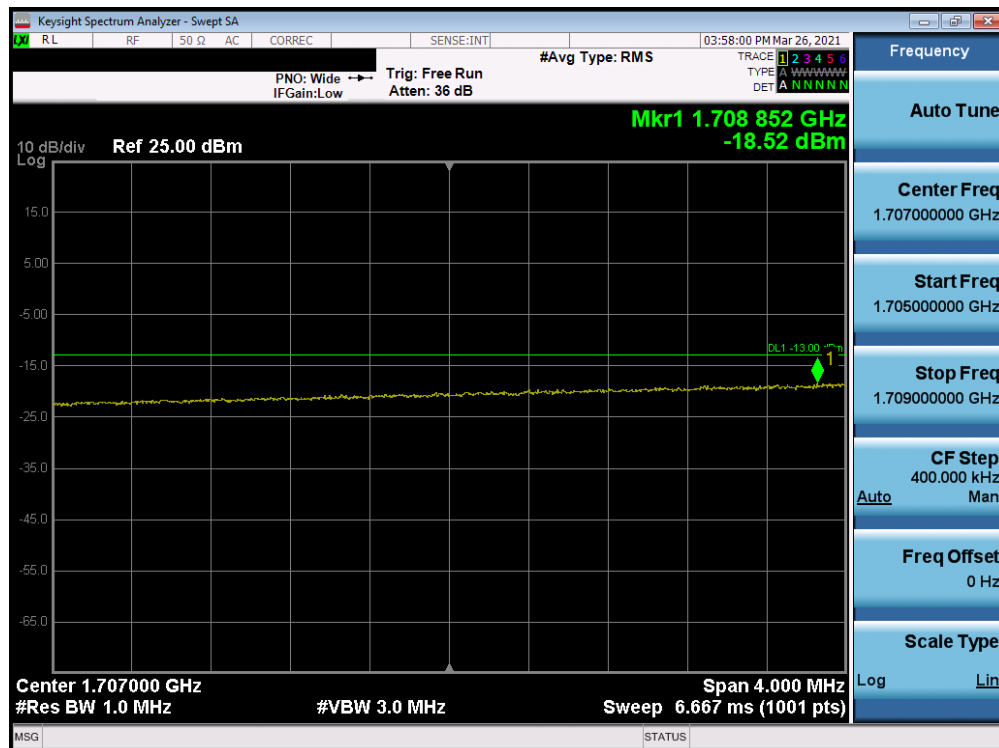


Plot 7-108. Upper Extended Band Edge Plot (Band 66 - 15.0MHz QPSK - Full RB Configuration)


FCC ID: BCGA2603	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080051-03.BCG	Test Dates: 6/7/2021 - 7/30/2021	EUT Type: Tablet Device	Page 75 of 158

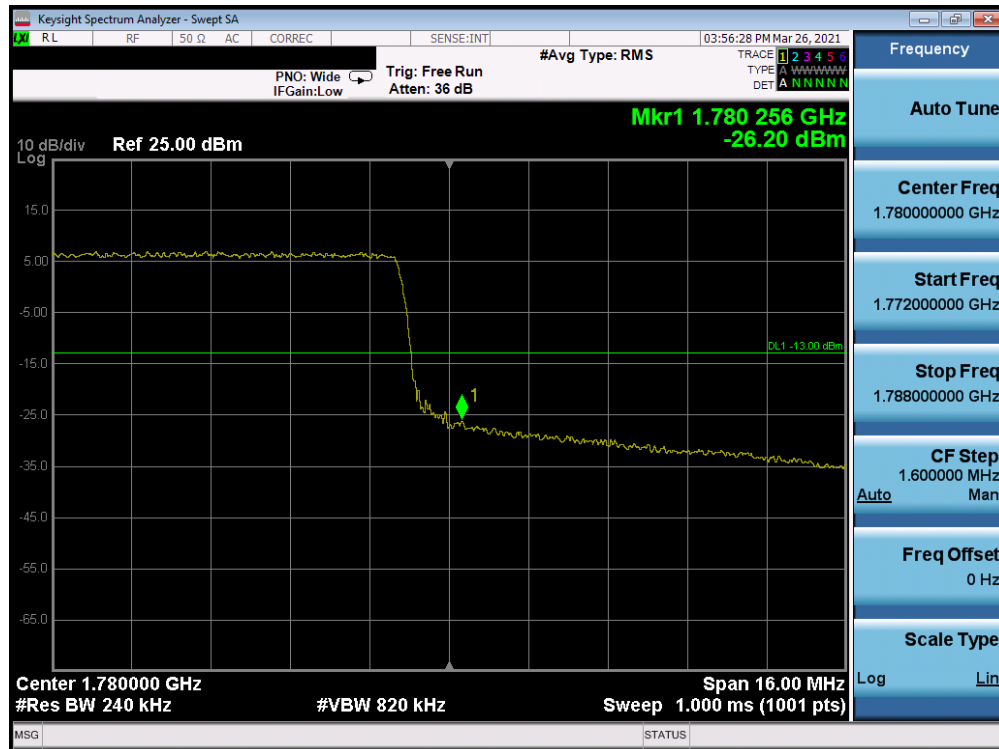


Plot 7-109. Lower Band Edge Plot (Band 66 - 20.0MHz QPSK - Full RB Configuration)

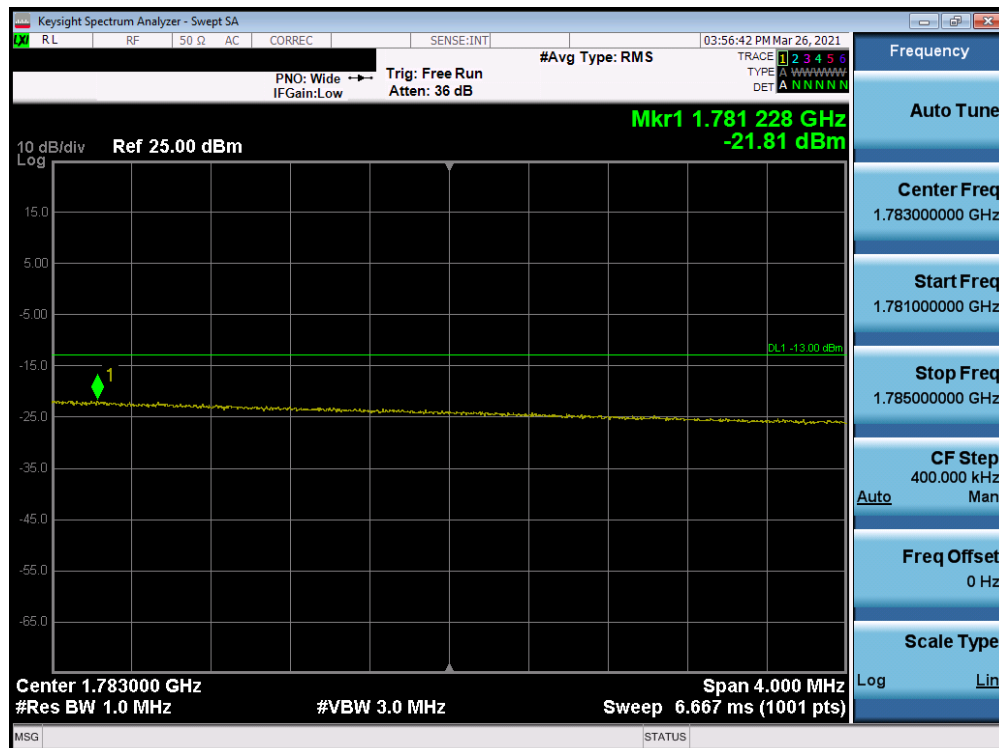


Plot 7-110. Lower Extended Band Edge Plot (Band 66 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2603	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080051-03.BCG	Test Dates: 6/7/2021 - 7/30/2021	EUT Type: Tablet Device	Page 76 of 158



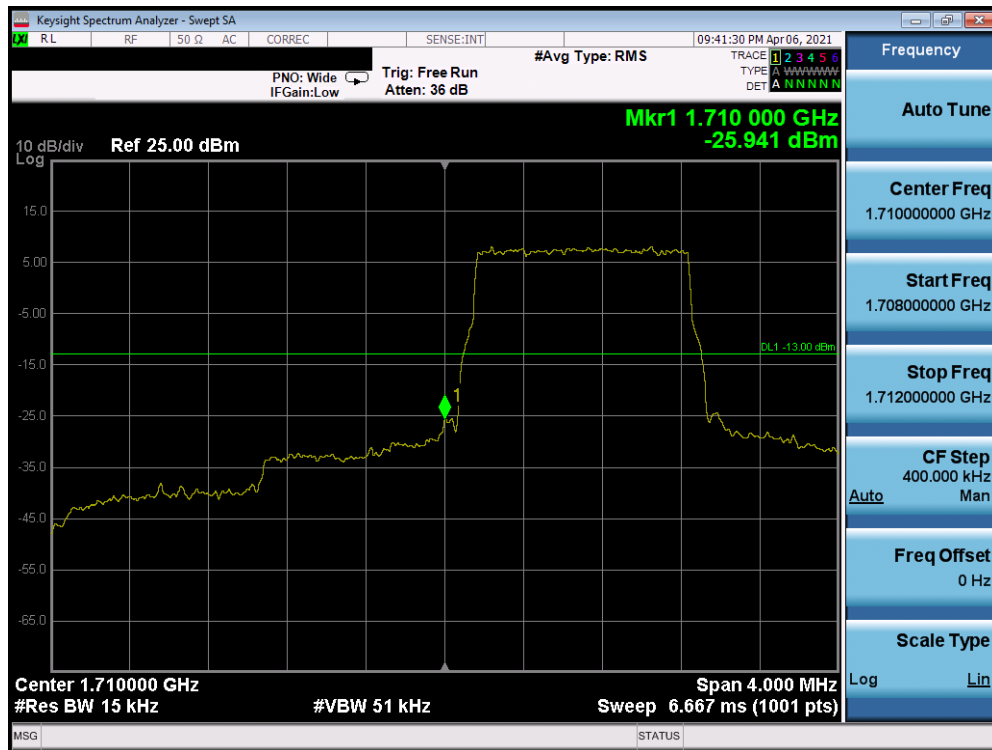
Plot 7-111. Upper Band Edge Plot (Band 66 - 20.0MHz QPSK - Full RB Configuration)



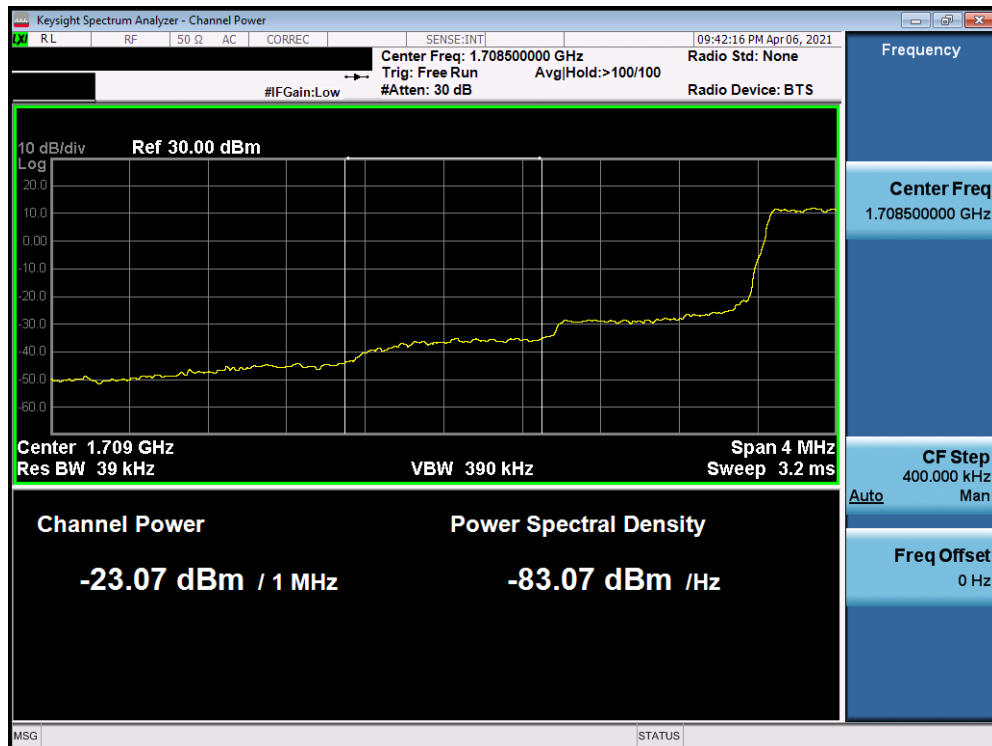
Plot 7-112. Upper Extended Band Edge Plot (Band 66 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2603	PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080051-03.BCG	Test Dates: 6/7/2021 - 7/30/2021	EUT Type: Tablet Device	Page 77 of 158


LTE Band 4



Plot 7-113. Lower Band Edge Plot (Band 4 - 1.4MHz QPSK - Full RB Configuration)

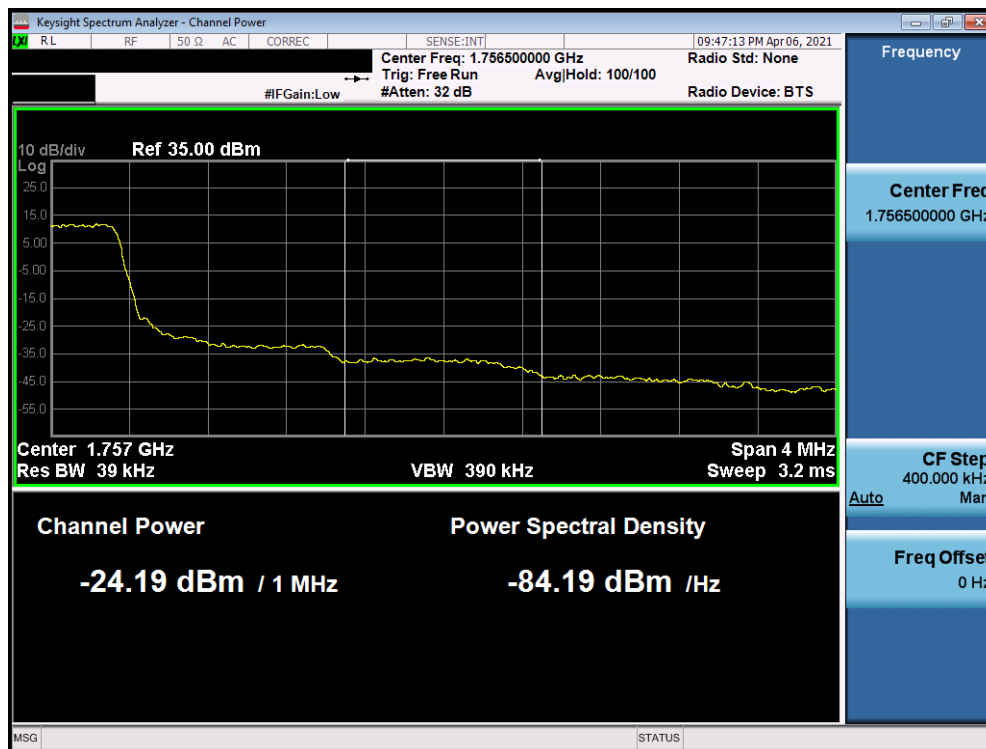


Plot 7-114. Lower Extended Band Edge Plot (Band 4 - 1.4MHz QPSK - Full RB Configuration)


FCC ID: BCGA2603	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080051-03.BCG	Test Dates: 6/7/2021 - 7/30/2021	EUT Type: Tablet Device	Page 78 of 158

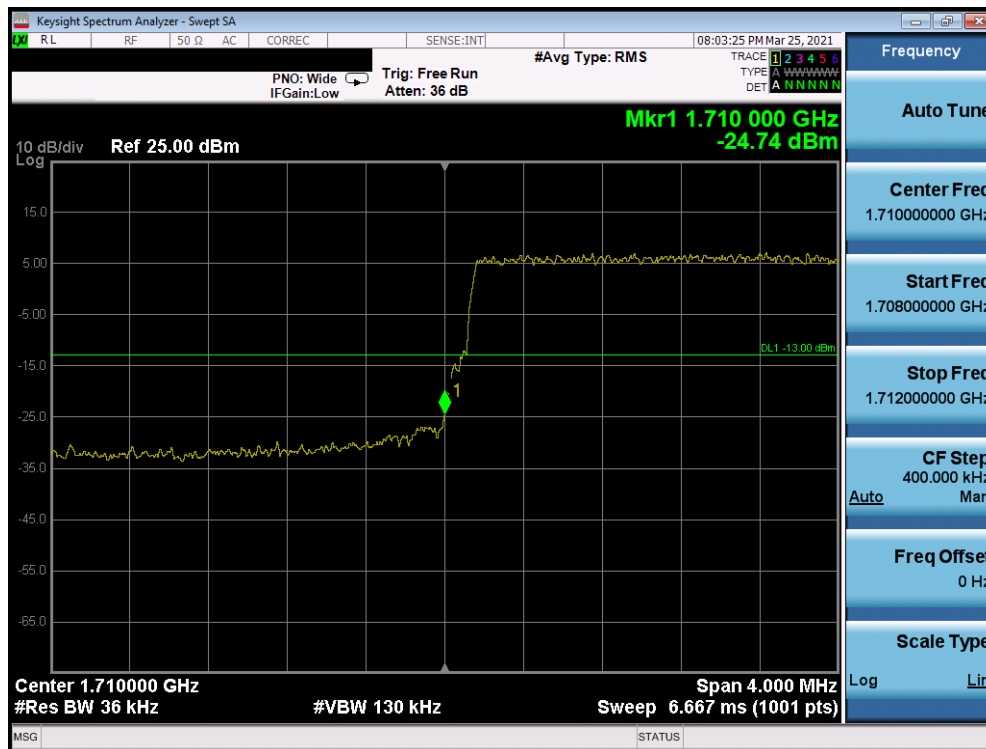


Plot 7-115. Upper Band Edge Plot (Band 4 - 1.4MHz QPSK - Full RB Configuration)

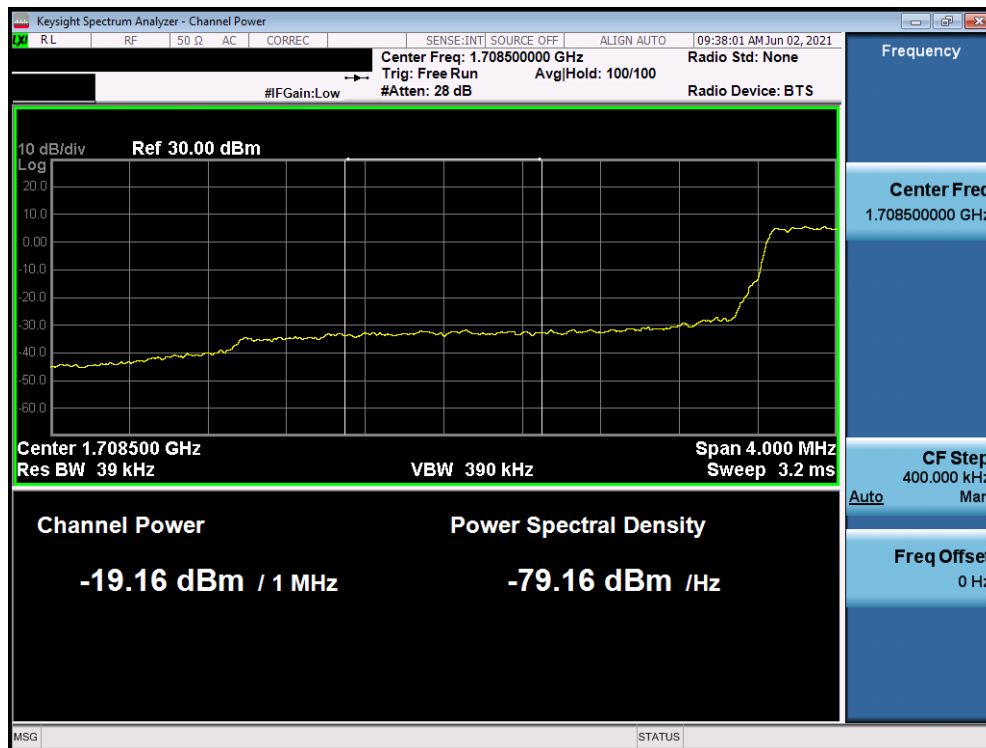


Plot 7-116. Upper Extended Band Edge Plot (Band 4 - 1.4MHz QPSK - Full RB Configuration)

FCC ID: BCGA2603	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080051-03.BCG	Test Dates: 6/7/2021 - 7/30/2021	EUT Type: Tablet Device	Page 79 of 158

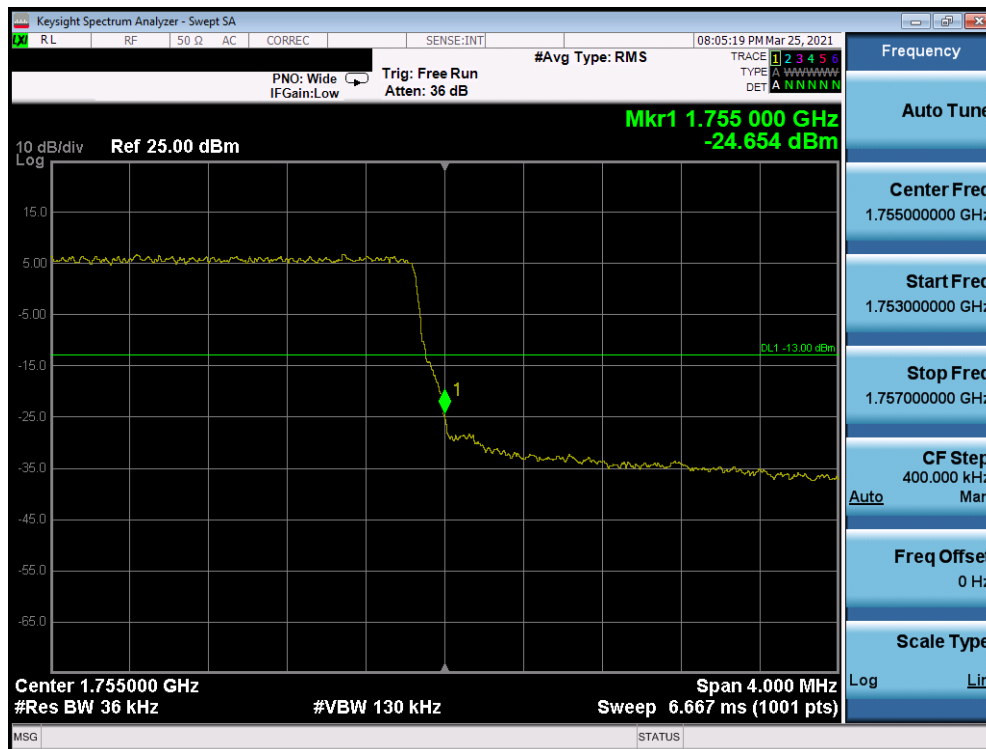


Plot 7-117. Lower Band Edge Plot (Band 4 - 3.0MHz QPSK - Full RB Configuration)

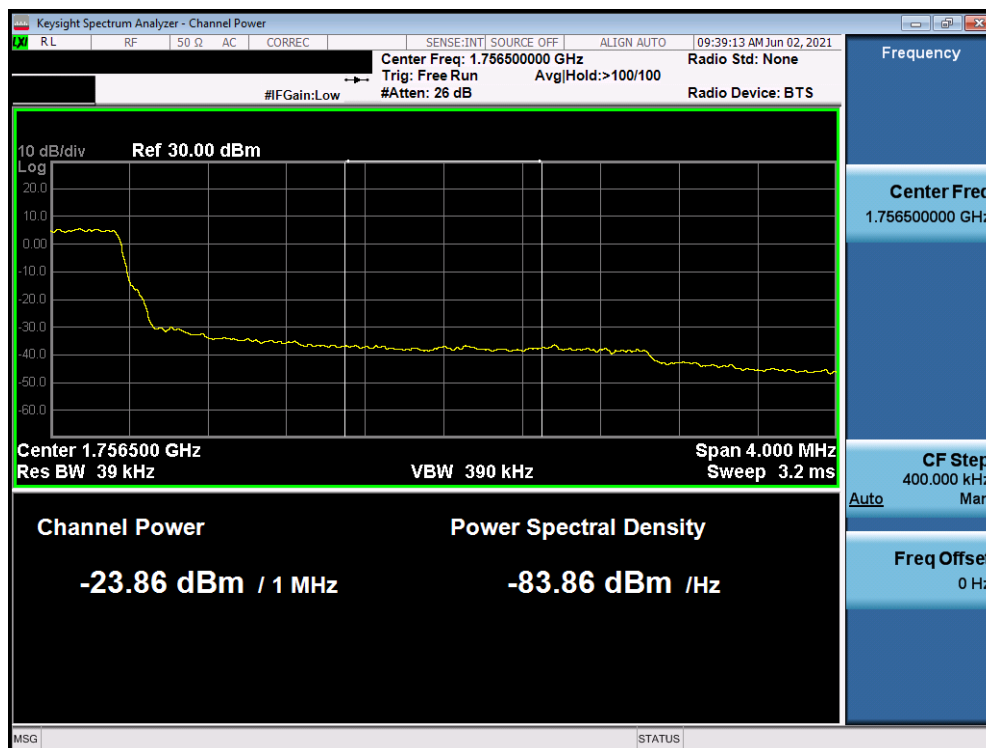


Plot 7-118. Lower Extended Band Edge Plot (Band 4 - 3.0MHz QPSK - Full RB Configuration)


FCC ID: BCGA2603	PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080051-03.BCG	Test Dates: 6/7/2021 - 7/30/2021	EUT Type: Tablet Device	Page 80 of 158

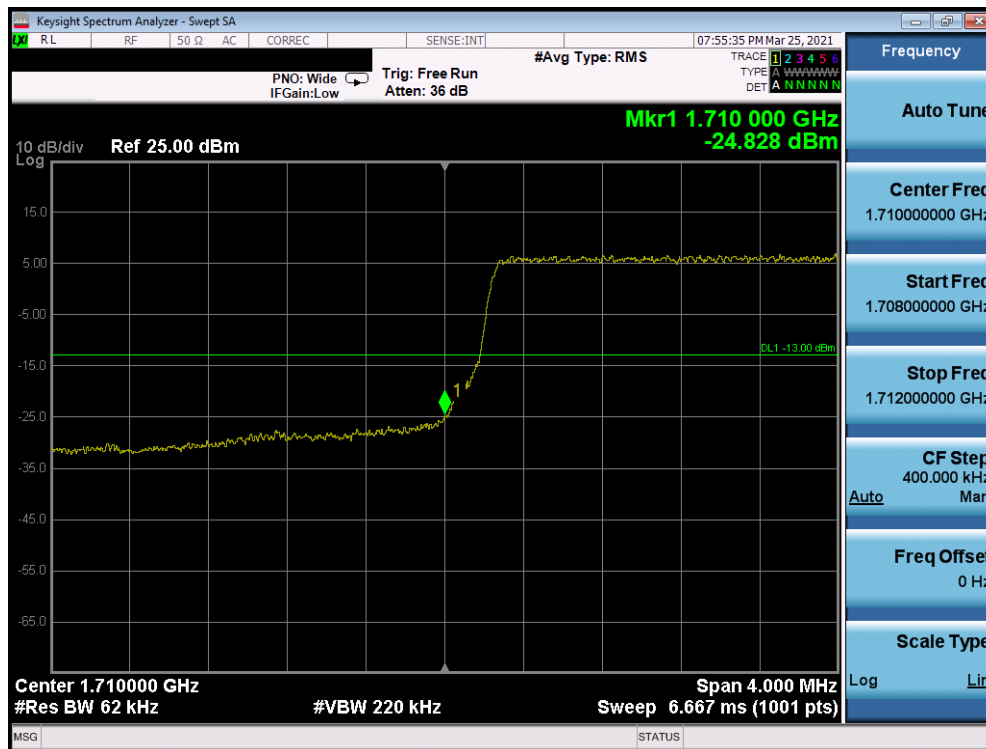


Plot 7-119. Upper Band Edge Plot (Band 4 - 3.0MHz QPSK - Full RB Configuration)

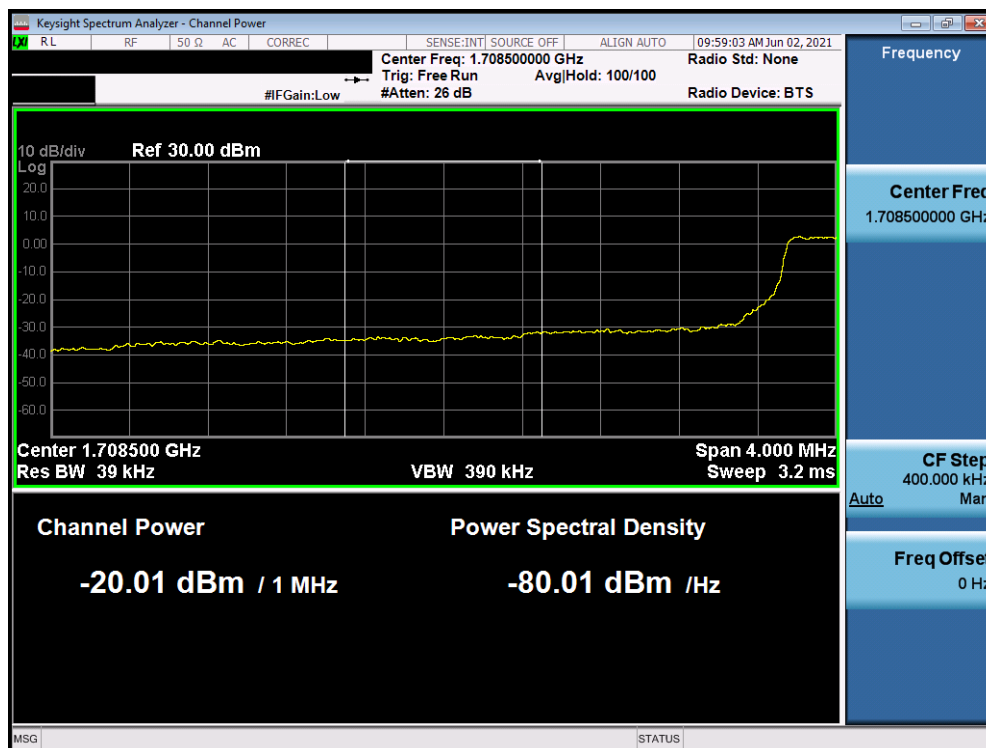


Plot 7-120. Upper Extended Band Edge Plot (Band 4 - 3.0MHz QPSK - Full RB Configuration)


FCC ID: BCGA2603	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080051-03.BCG	Test Dates: 6/7/2021 - 7/30/2021	EUT Type: Tablet Device	Page 81 of 158



Plot 7-121. Lower Band Edge Plot (Band 4 - 5.0MHz QPSK - Full RB Configuration)

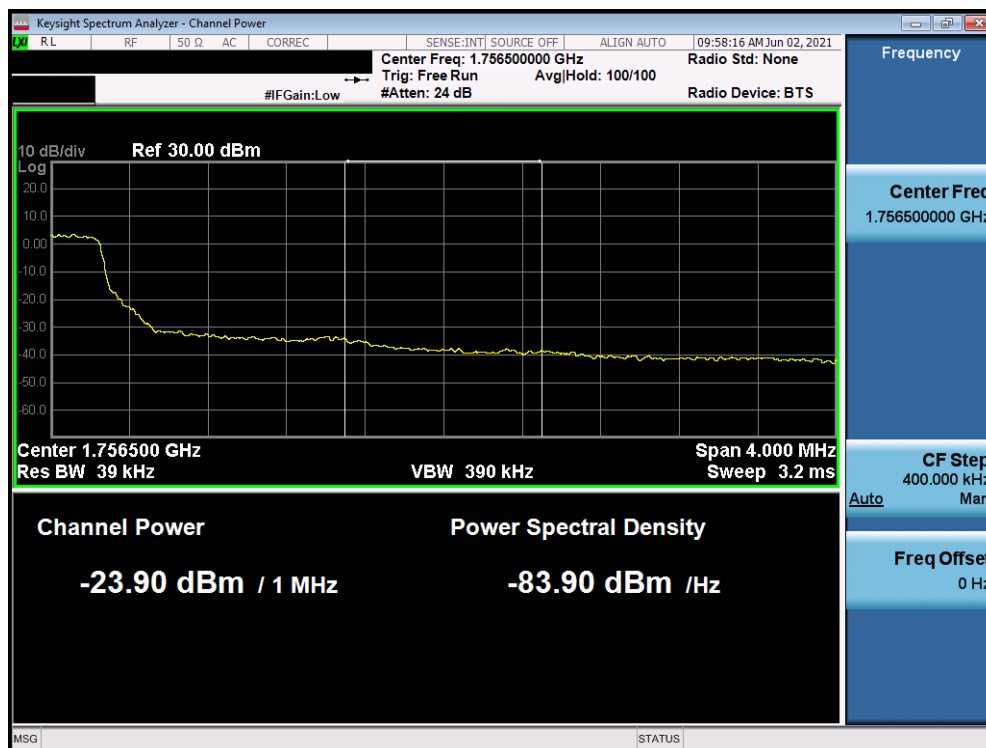


Plot 7-122. Lower Extended Band Edge Plot (Band 4 - 5.0MHz QPSK - Full RB Configuration)


FCC ID: BCGA2603	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080051-03.BCG	Test Dates: 6/7/2021 - 7/30/2021	EUT Type: Tablet Device	Page 82 of 158

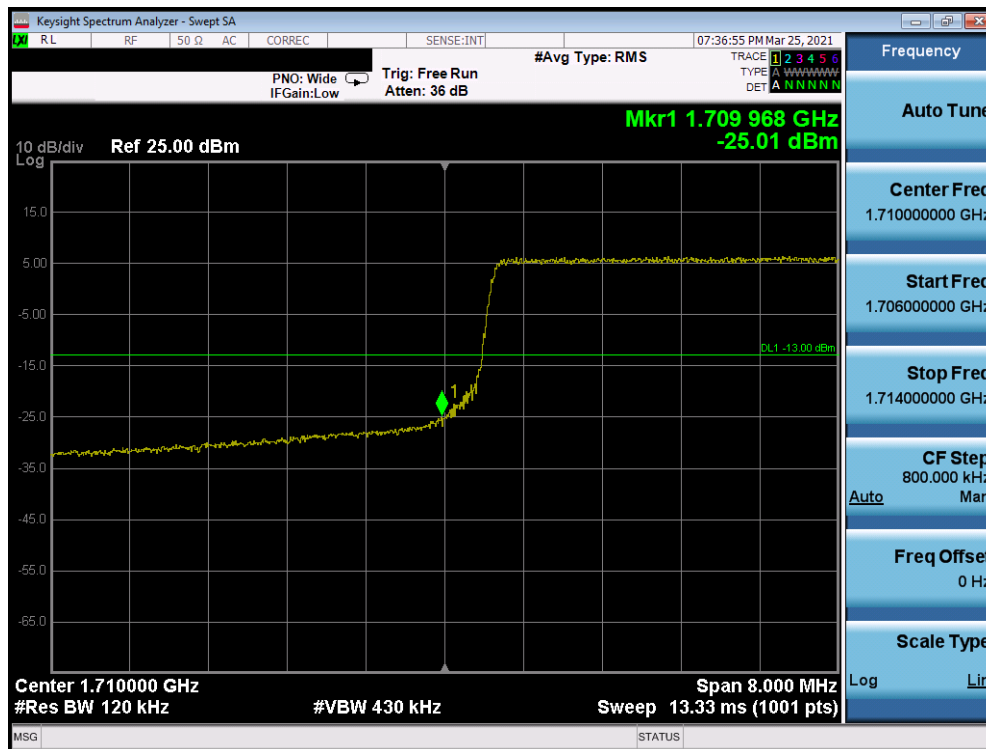


Plot 7-123. Upper Band Edge Plot (Band 4 - 5.0MHz QPSK - Full RB Configuration)

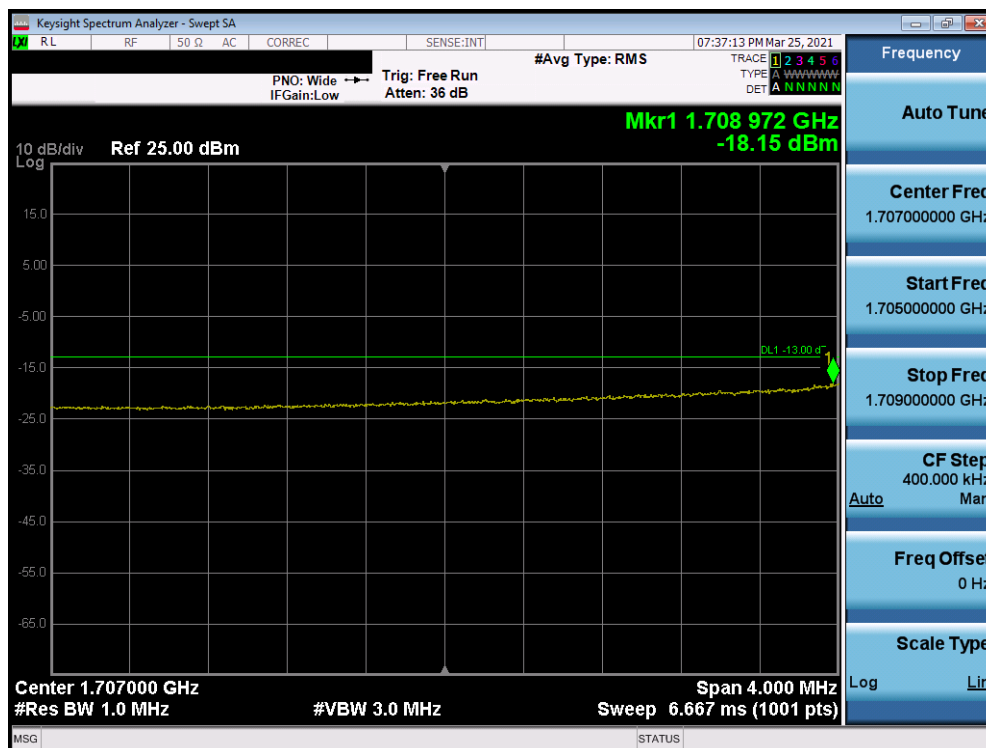


Plot 7-124. Upper Extended Band Edge Plot (Band 4 - 5.0MHz QPSK - Full RB Configuration)


FCC ID: BCGA2603	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080051-03.BCG	Test Dates: 6/7/2021 - 7/30/2021	EUT Type: Tablet Device	Page 83 of 158

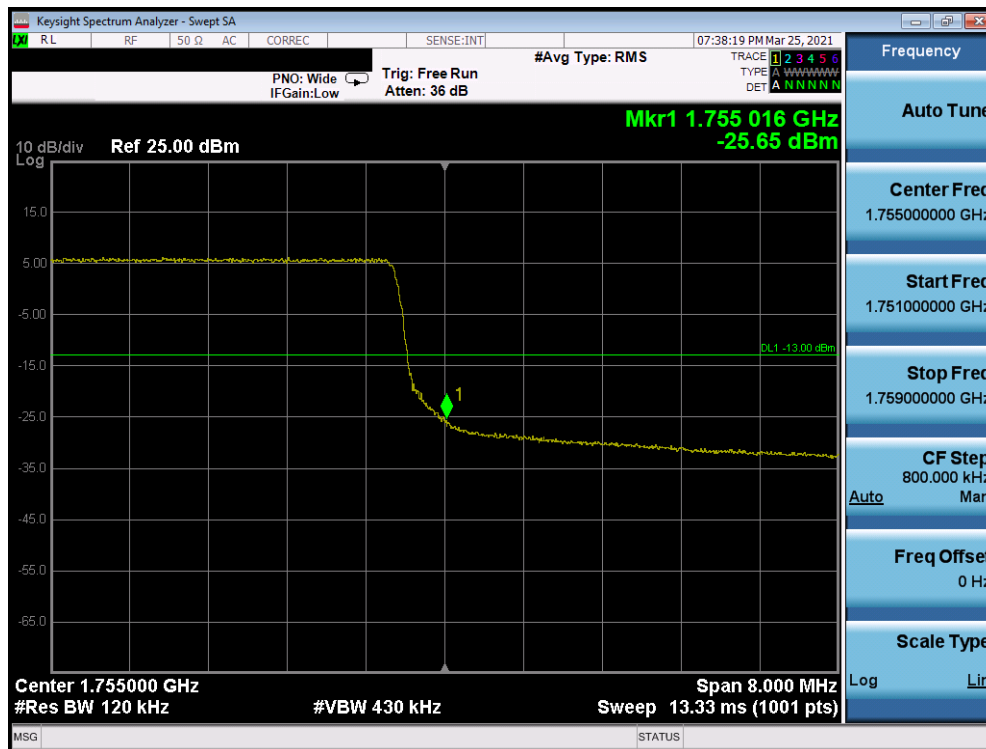


Plot 7-125. Lower Band Edge Plot (Band 4 - 10.0MHz QPSK - Full RB Configuration)

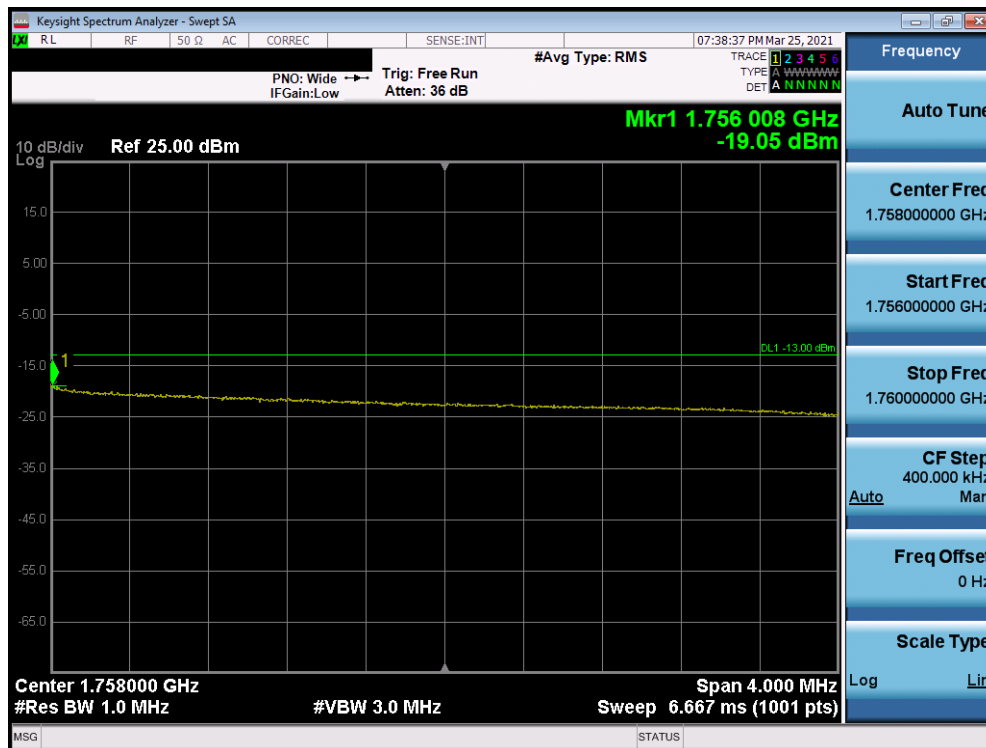


Plot 7-126. Lower Extended Band Edge Plot (Band 4 - 10.0MHz QPSK - Full RB Configuration)


FCC ID: BCGA2603	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080051-03.BCG	Test Dates: 6/7/2021 - 7/30/2021	EUT Type: Tablet Device	Page 84 of 158

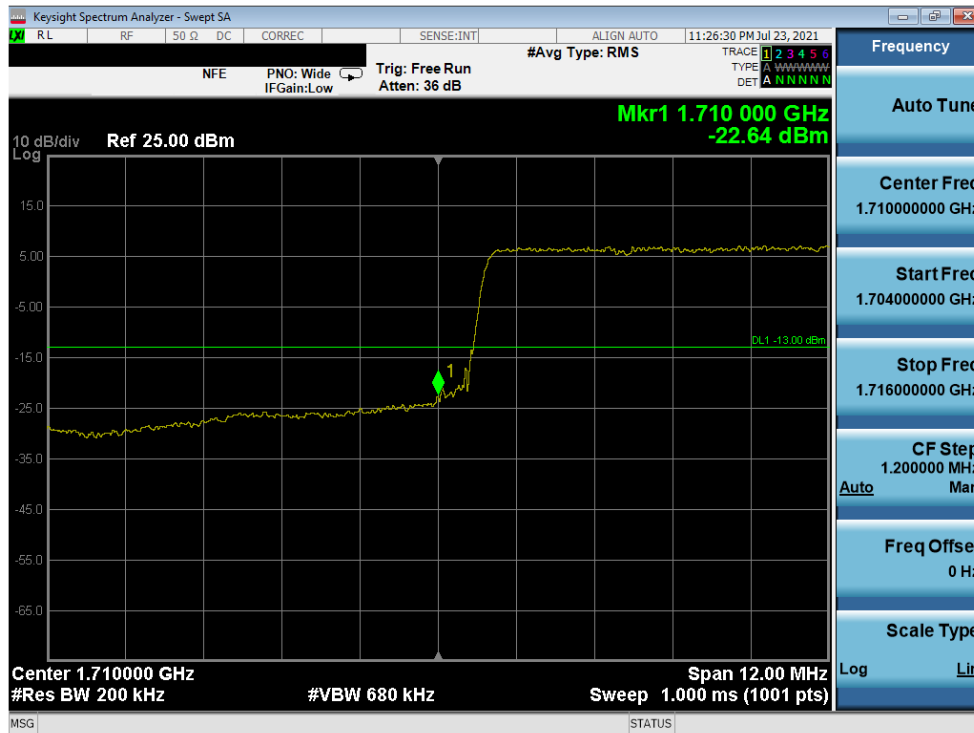


Plot 7-127. Upper Band Edge Plot (Band 4 - 10.0MHz QPSK - Full RB Configuration)

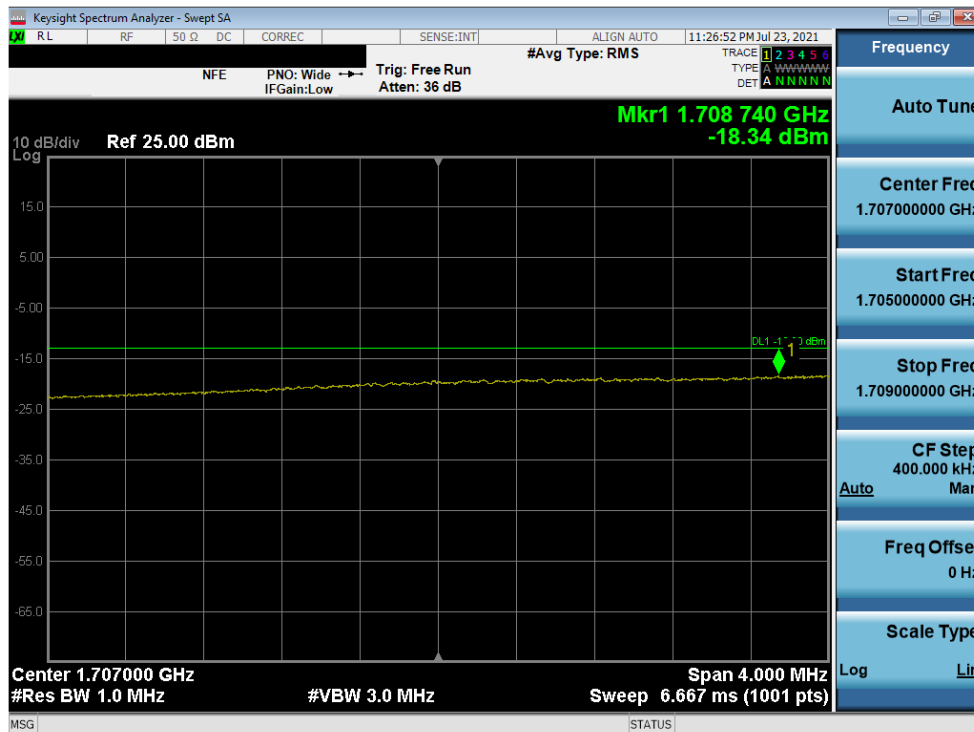


Plot 7-128. Upper Extended Band Edge Plot (Band 4 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2603	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080051-03.BCG	Test Dates: 6/7/2021 - 7/30/2021	EUT Type: Tablet Device	Page 85 of 158

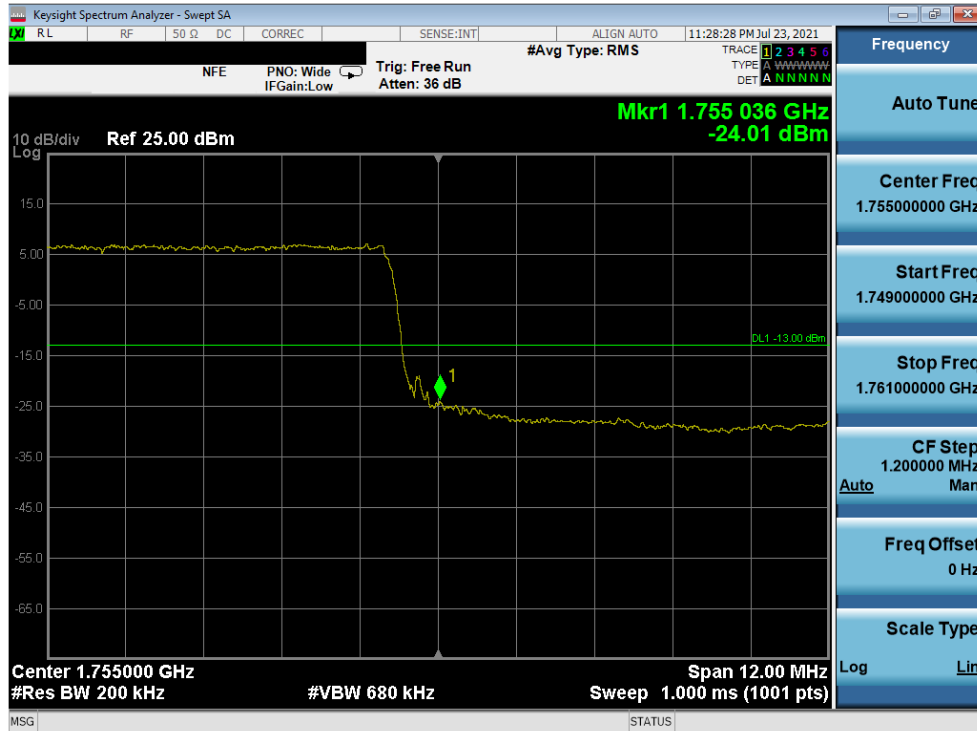


Plot 7-129. Lower Band Edge Plot (Band 4 - 15.0MHz QPSK - Full RB Configuration)

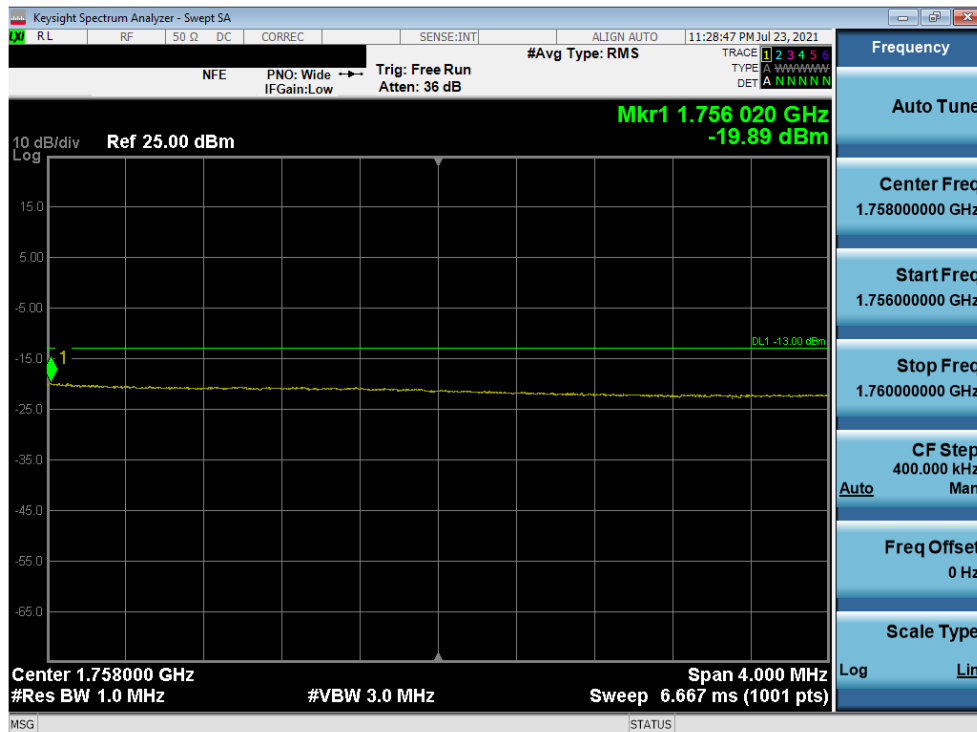


Plot 7-130. Lower Extended Band Edge Plot (Band 4 - 15.0MHz QPSK - Full RB Configuration)


FCC ID: BCGA2603	PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080051-03.BCG	Test Dates: 6/7/2021 - 7/30/2021	EUT Type: Tablet Device	Page 86 of 158

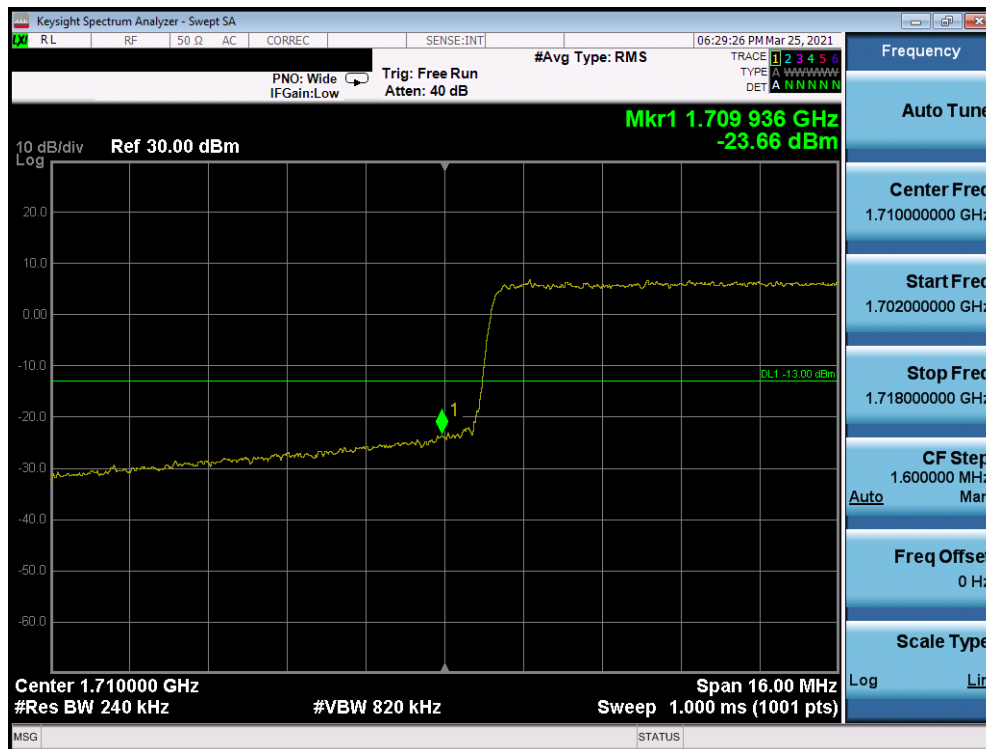


Plot 7-131. Upper Band Edge Plot (Band 4 - 15.0MHz QPSK - Full RB Configuration)

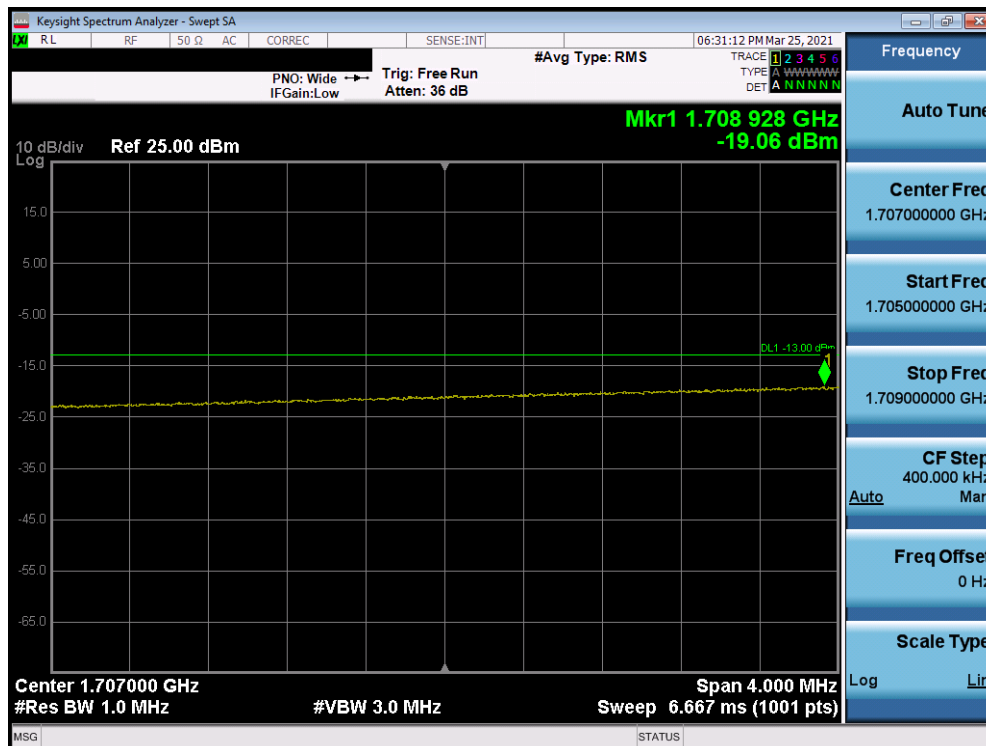


Plot 7-132. Upper Extended Band Edge Plot (Band 4 - 15.0MHz QPSK - Full RB Configuration)


FCC ID: BCGA2603	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080051-03.BCG	Test Dates: 6/7/2021 - 7/30/2021	EUT Type: Tablet Device	Page 87 of 158



Plot 7-133. Lower Band Edge Plot (Band 4 - 20.0MHz QPSK - Full RB Configuration)

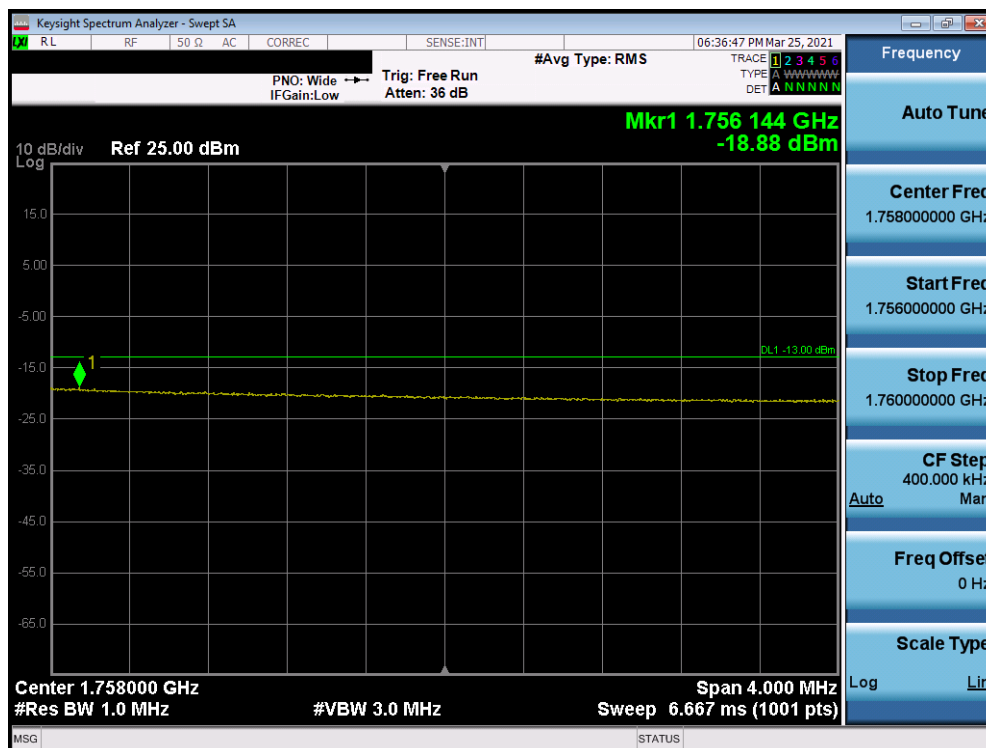


Plot 7-134. Lower Extended Band Edge Plot (Band 4 - 20.0MHz QPSK - Full RB Configuration)


FCC ID: BCGA2603	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080051-03.BCG	Test Dates: 6/7/2021 - 7/30/2021	EUT Type: Tablet Device	Page 88 of 158



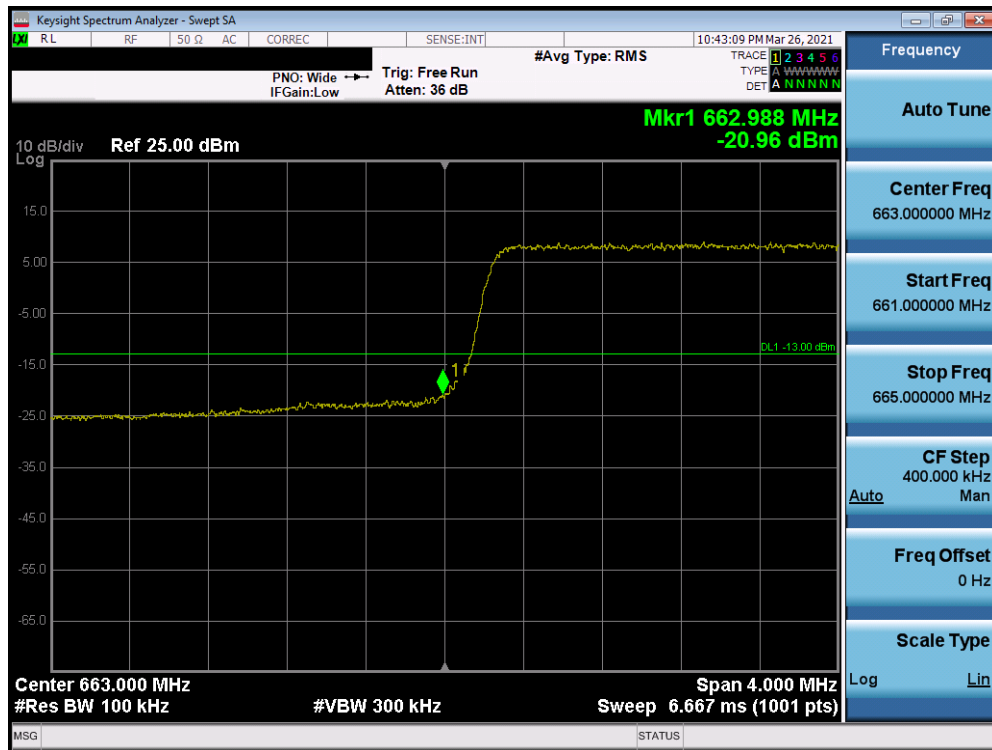
Plot 7-135. Upper Band Edge Plot (Band 4 - 20.0MHz QPSK - Full RB Configuration)



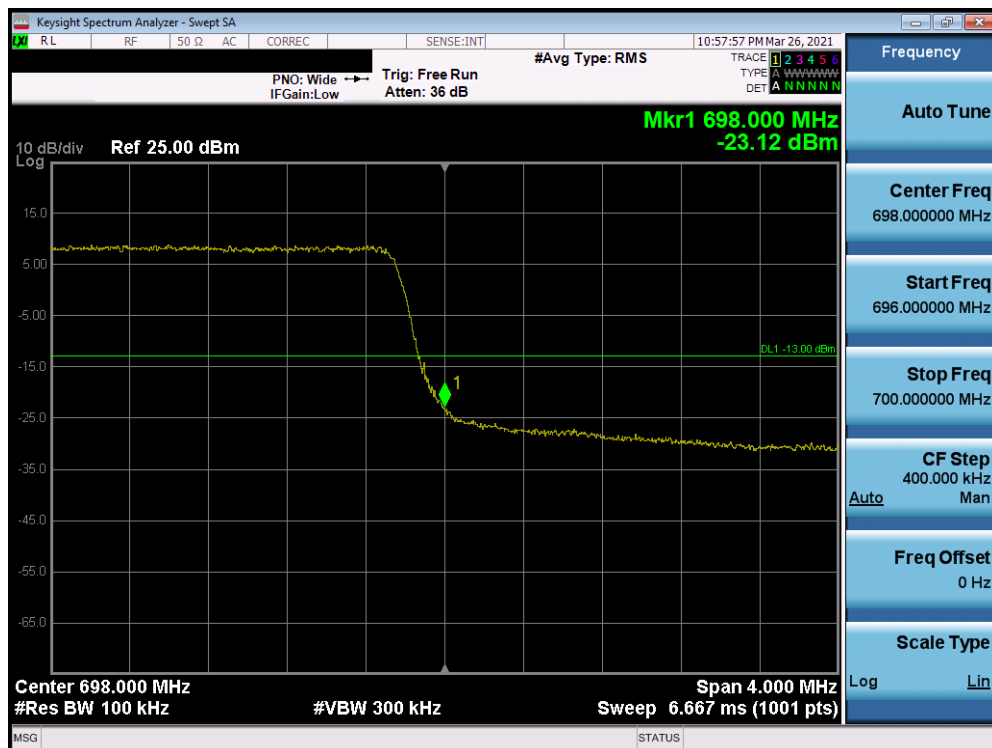
Plot 7-136. Upper Extended Band Edge Plot (Band 4 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2603	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080051-03.BCG	Test Dates: 6/7/2021 - 7/30/2021	EUT Type: Tablet Device	Page 89 of 158

LTE Band 71

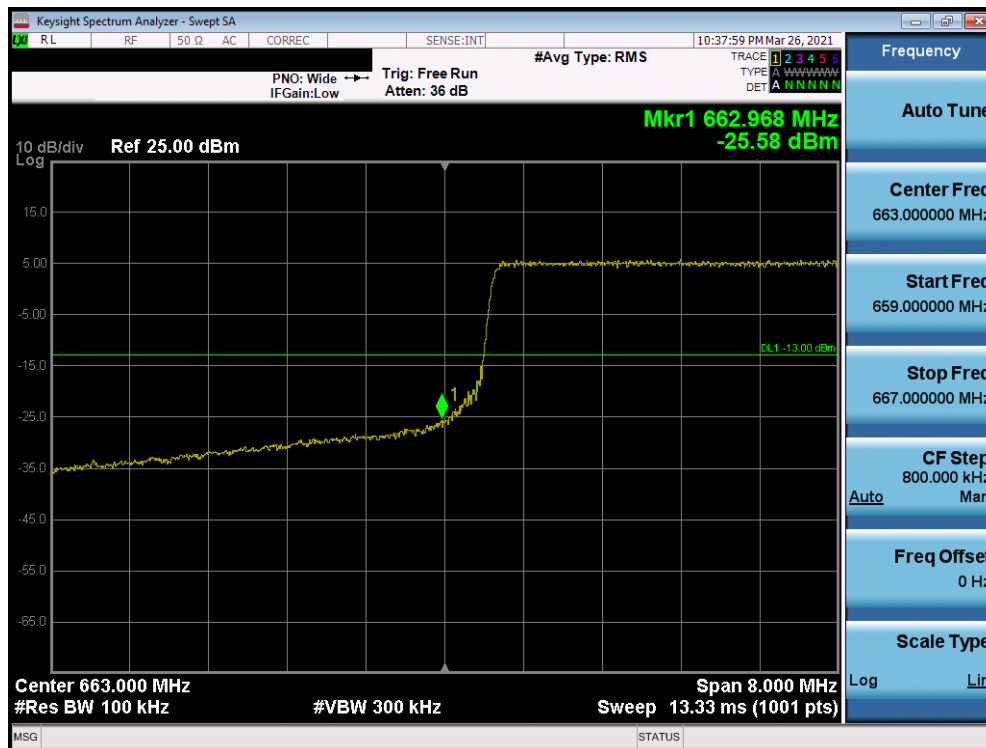


Plot 7-137. Lower Band Edge Plot (Band 71 - 5.0MHz QPSK - Full RB Configuration)

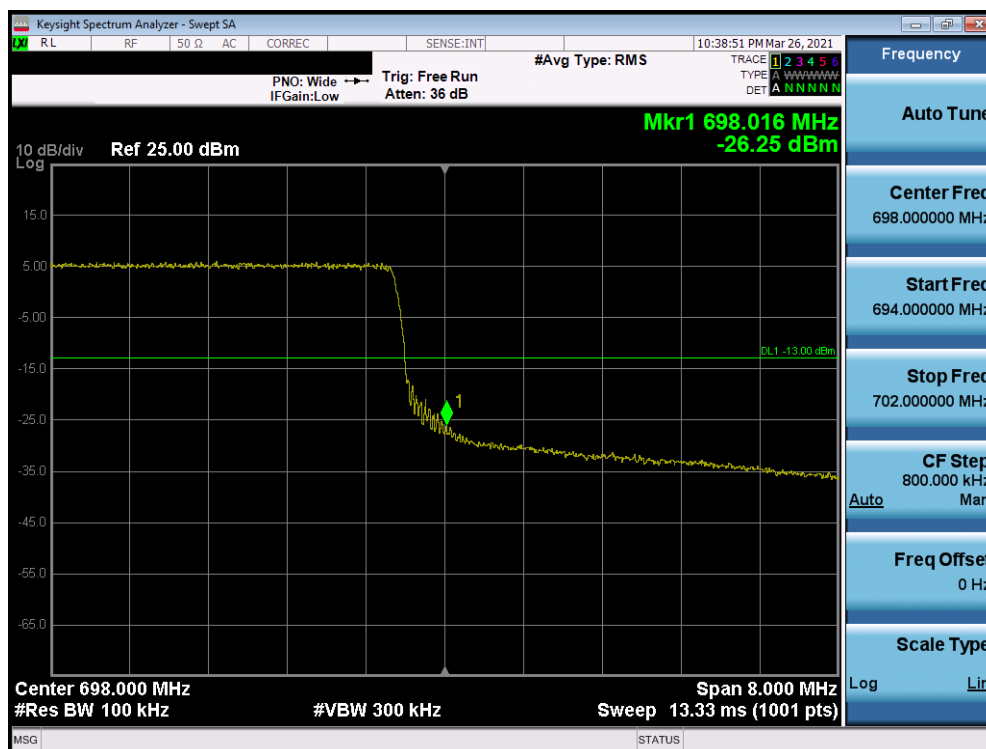


Plot 7-138. Upper Band Edge Plot (Band 71 - 5.0MHz QPSK - Full RB Configuration)


FCC ID: BCGA2603	PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080051-03.BCG	Test Dates: 6/7/2021 - 7/30/2021	EUT Type: Tablet Device	Page 90 of 158

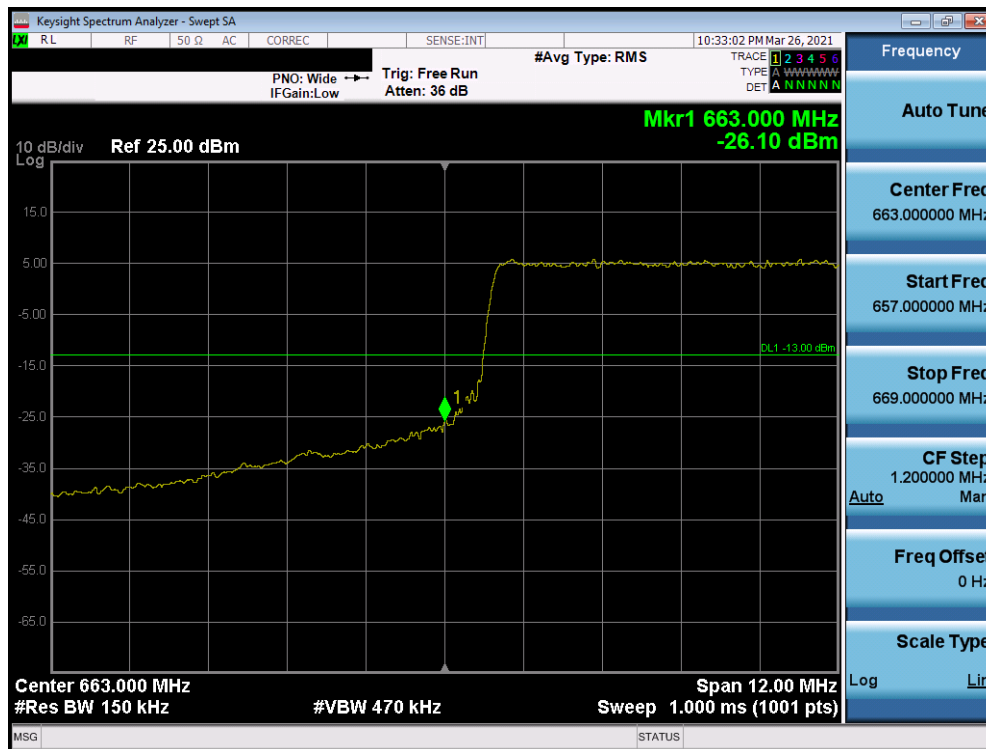


Plot 7-139. Lower Band Edge Plot (Band 71 - 10.0MHz QPSK - Full RB Configuration)

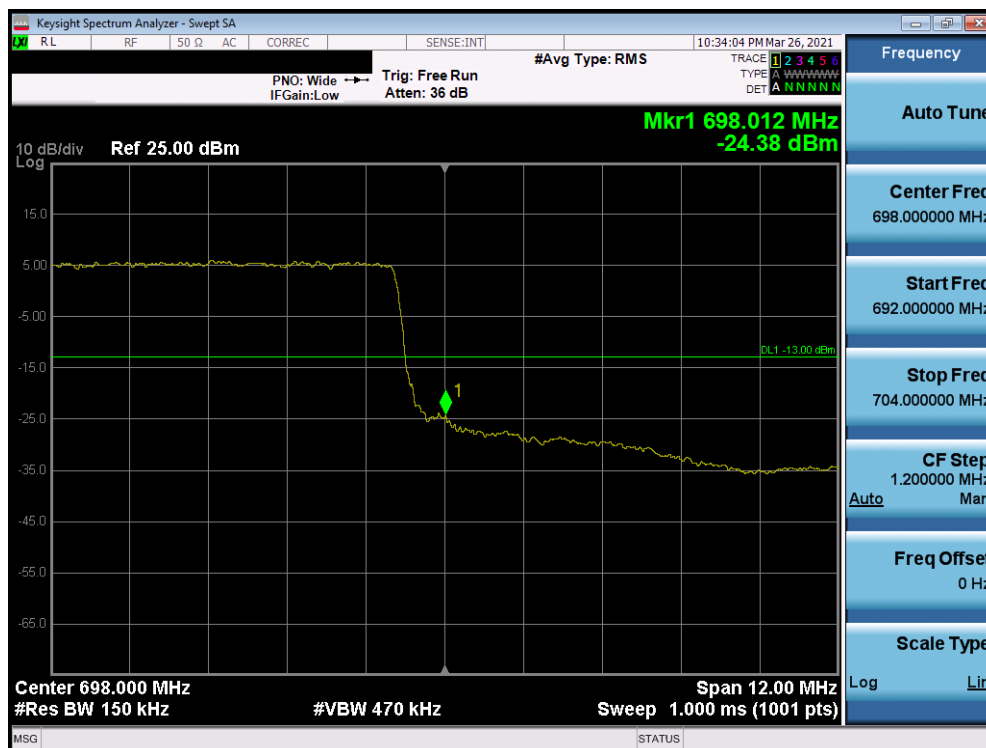


Plot 7-140. Upper Band Edge Plot (Band 71 - 10.0MHz QPSK - Full RB Configuration)


FCC ID: BCGA2603	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080051-03.BCG	Test Dates: 6/7/2021 - 7/30/2021	EUT Type: Tablet Device	Page 91 of 158

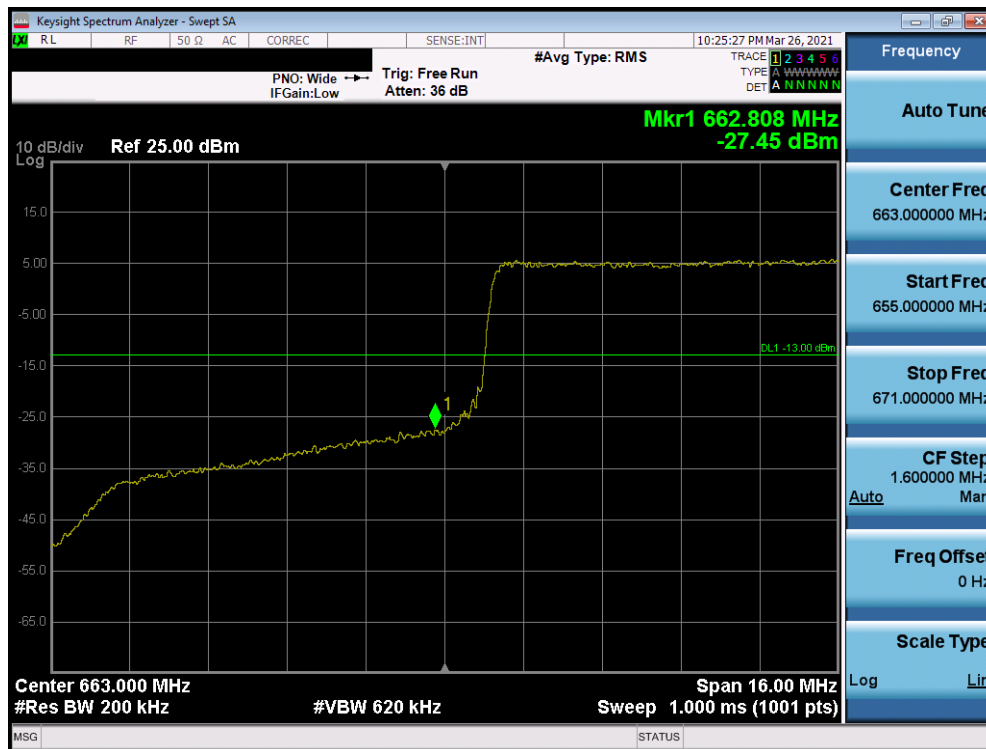


Plot 7-141. Lower Band Edge Plot (Band 71 - 15.0MHz QPSK - Full RB Configuration)



Plot 7-142. Upper Band Edge Plot (Band 71 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2603	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080051-03.BCG	Test Dates: 6/7/2021 - 7/30/2021	EUT Type: Tablet Device	Page 92 of 158



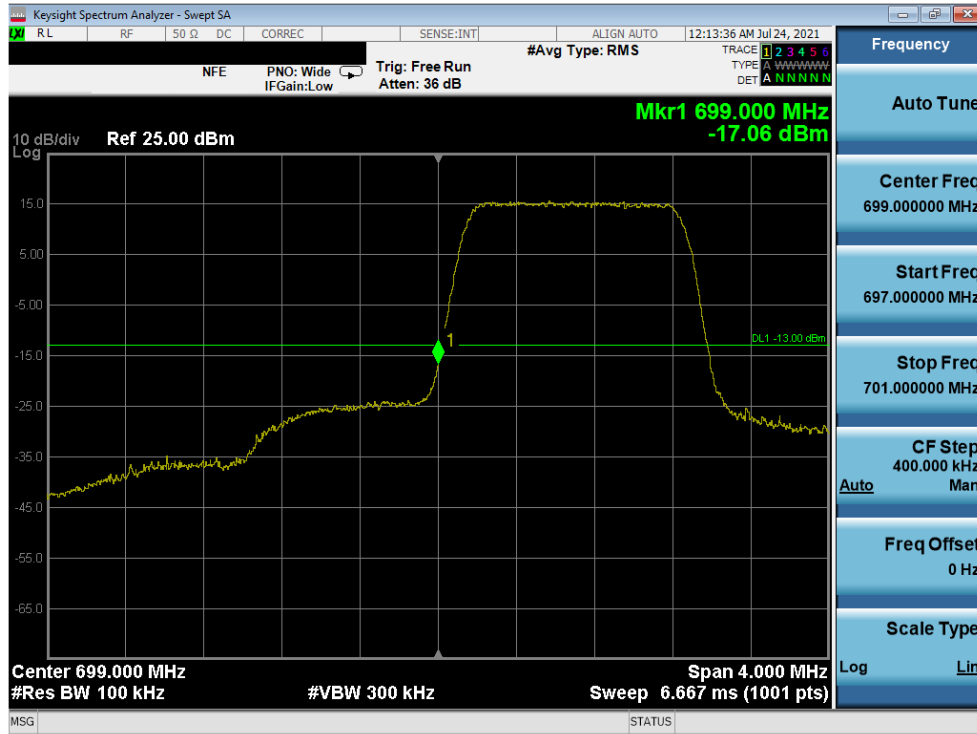
Plot 7-143. Lower Band Edge Plot (Band 71 - 20.0MHz QPSK - Full RB Configuration)



Plot 7-144. Upper Band Edge Plot (Band 71 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2603	PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080051-03.BCG	Test Dates: 6/7/2021 - 7/30/2021	EUT Type: Tablet Device	Page 93 of 158


LTE Band 12

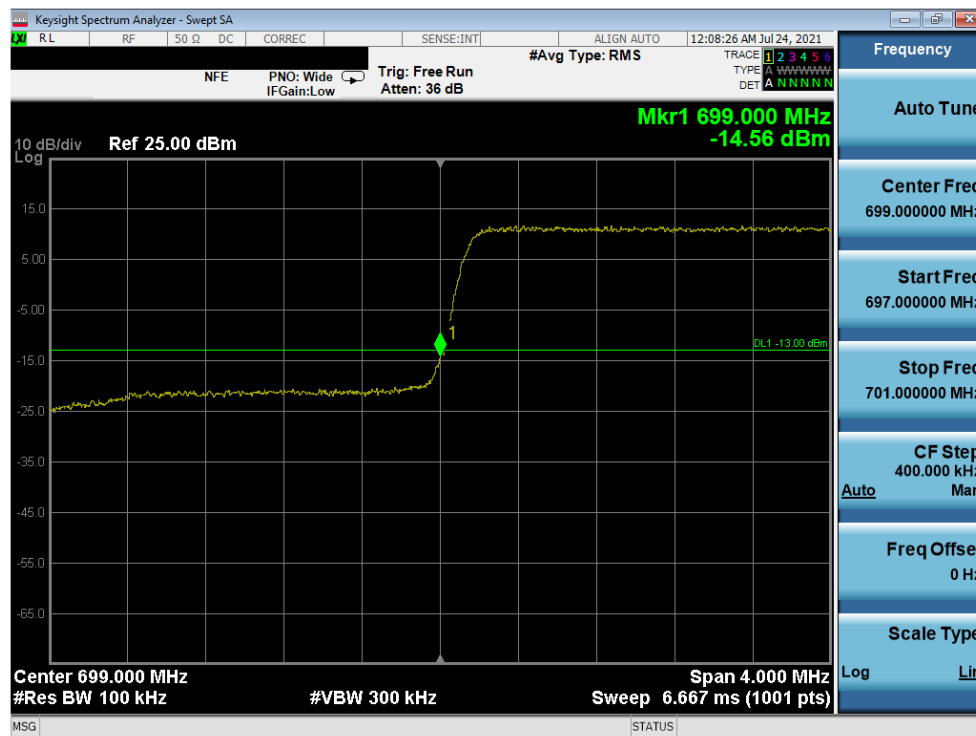


Plot 7-145. Lower Band Edge Plot (Band 12 - 1.4MHz QPSK - Full RB Configuration)

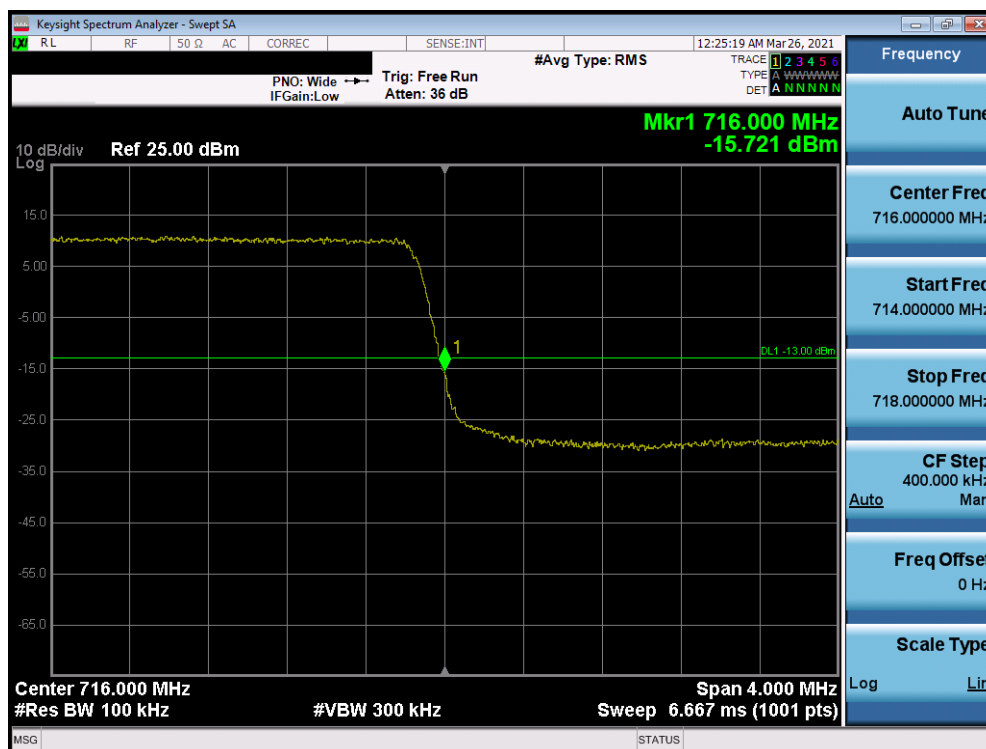


Plot 7-146. Upper Band Edge Plot (Band 12 - 1.4MHz QPSK - Full RB Configuration)

FCC ID: BCGA2603	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080051-03.BCG	Test Dates: 6/7/2021 - 7/30/2021	EUT Type: Tablet Device	Page 94 of 158

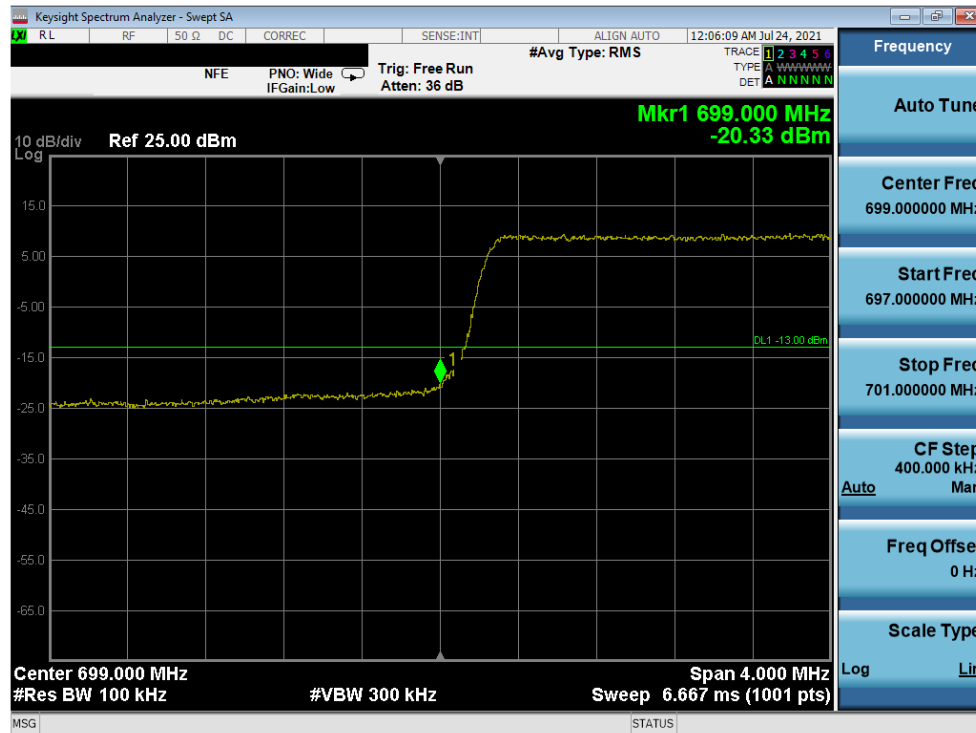


Plot 7-147. Lower Band Edge Plot (Band 12 - 3.0MHz QPSK - Full RB Configuration)



Plot 7-148. Upper Band Edge Plot (Band 12 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2603	PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080051-03.BCG	Test Dates: 6/7/2021 - 7/30/2021	EUT Type: Tablet Device	Page 95 of 158

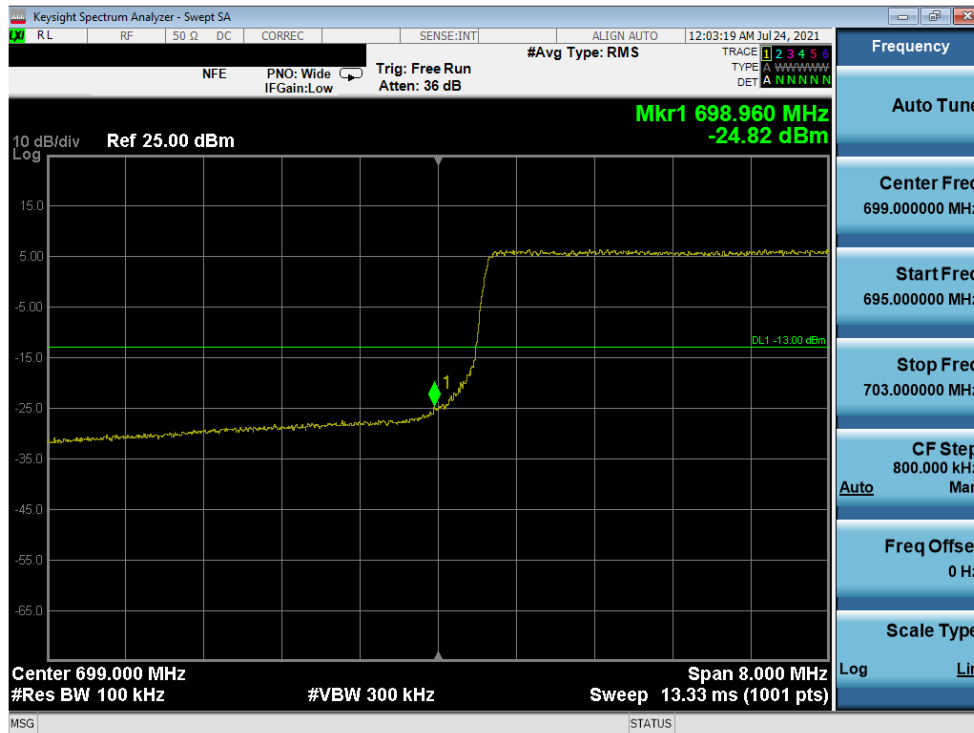


Plot 7-149. Lower Band Edge Plot (Band 12 - 5.0MHz QPSK - Full RB Configuration)

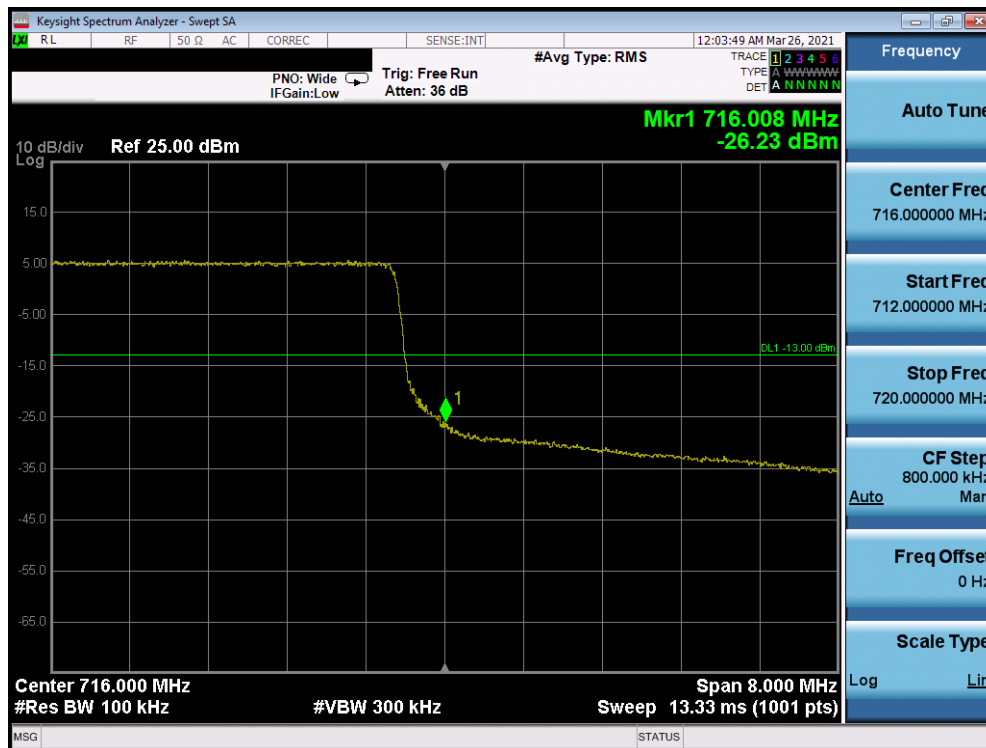


Plot 7-150. Upper Band Edge Plot (Band 12 - 5.0MHz QPSK - Full RB Configuration)


FCC ID: BCGA2603	PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080051-03.BCG	Test Dates: 6/7/2021 - 7/30/2021	EUT Type: Tablet Device	Page 96 of 158



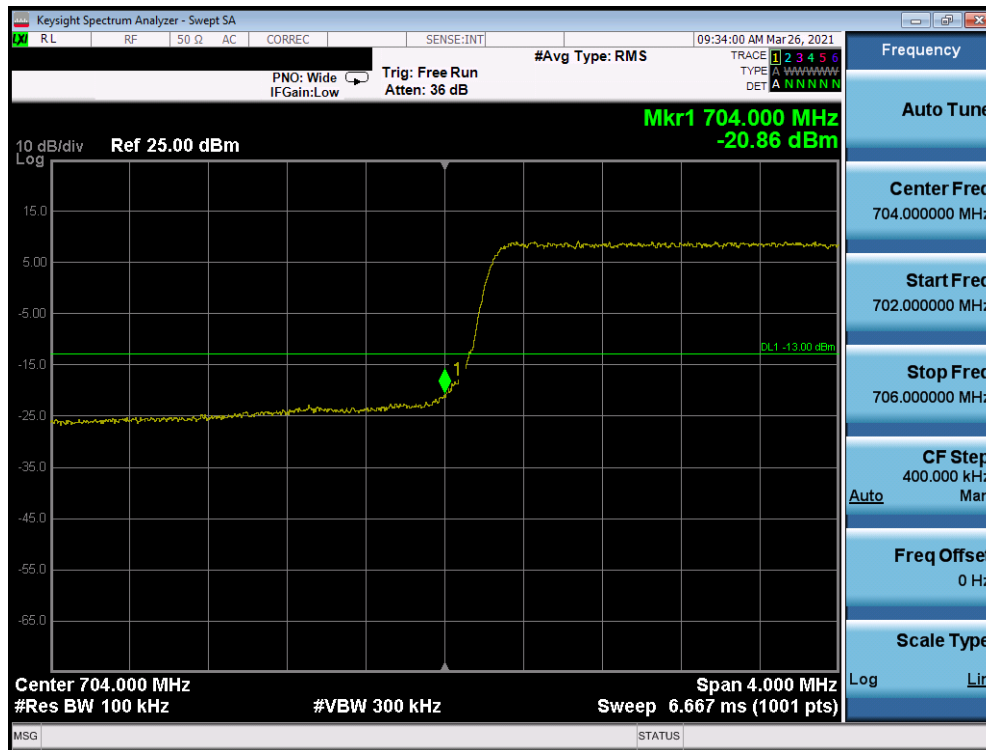
Plot 7-151. Lower Band Edge Plot (Band 12 - 10.0MHz QPSK - Full RB Configuration)



Plot 7-152. Upper Band Edge Plot (Band 12 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2603	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080051-03.BCG	Test Dates: 6/7/2021 - 7/30/2021	EUT Type: Tablet Device	Page 97 of 158

LTE Band 17

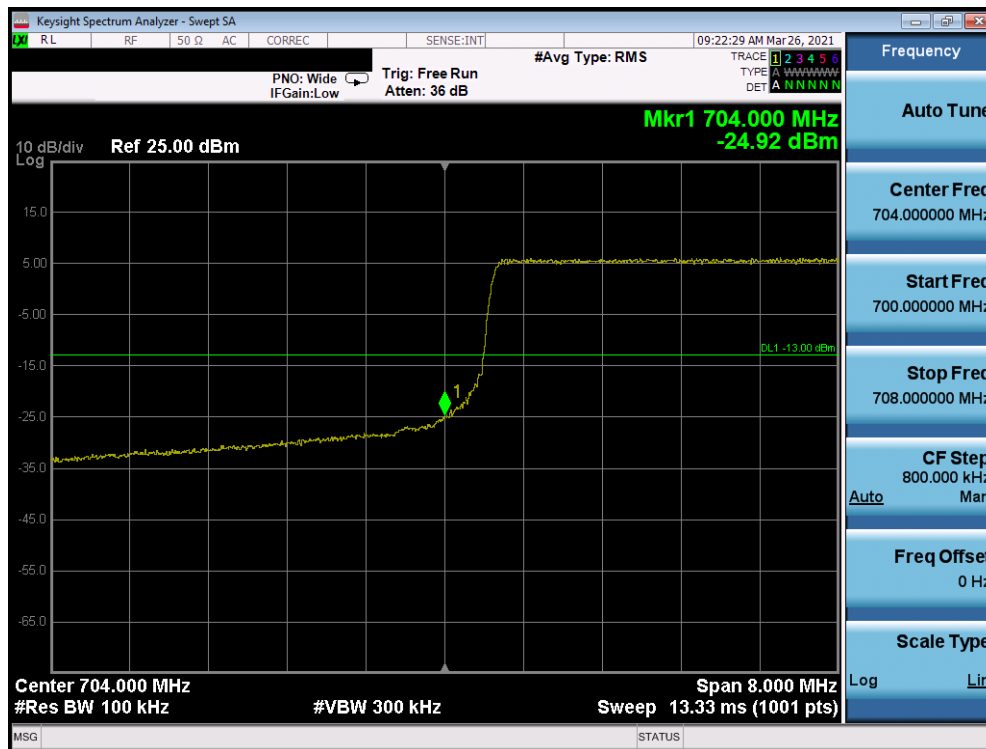


Plot 7-153. Lower Band Edge Plot (Band 17 - 5.0MHz QPSK - Full RB Configuration)

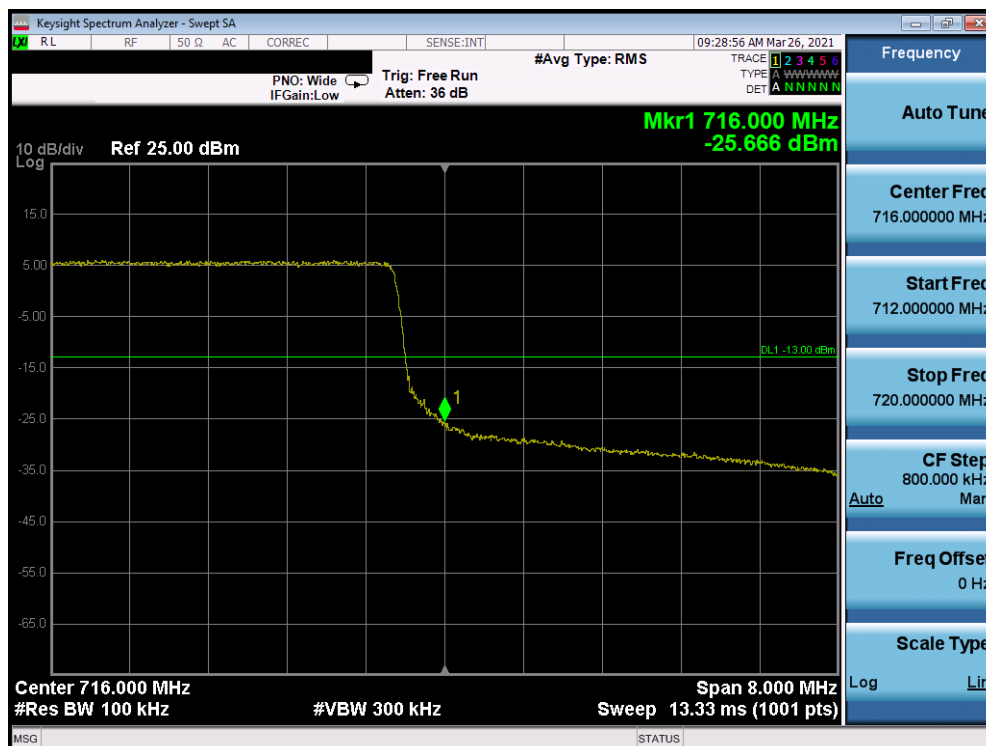


Plot 7-154. Upper Band Edge Plot (Band 17 - 5.0MHz QPSK - Full RB Configuration)


FCC ID: BCGA2603	PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080051-03.BCG	Test Dates: 6/7/2021 - 7/30/2021	EUT Type: Tablet Device	Page 98 of 158



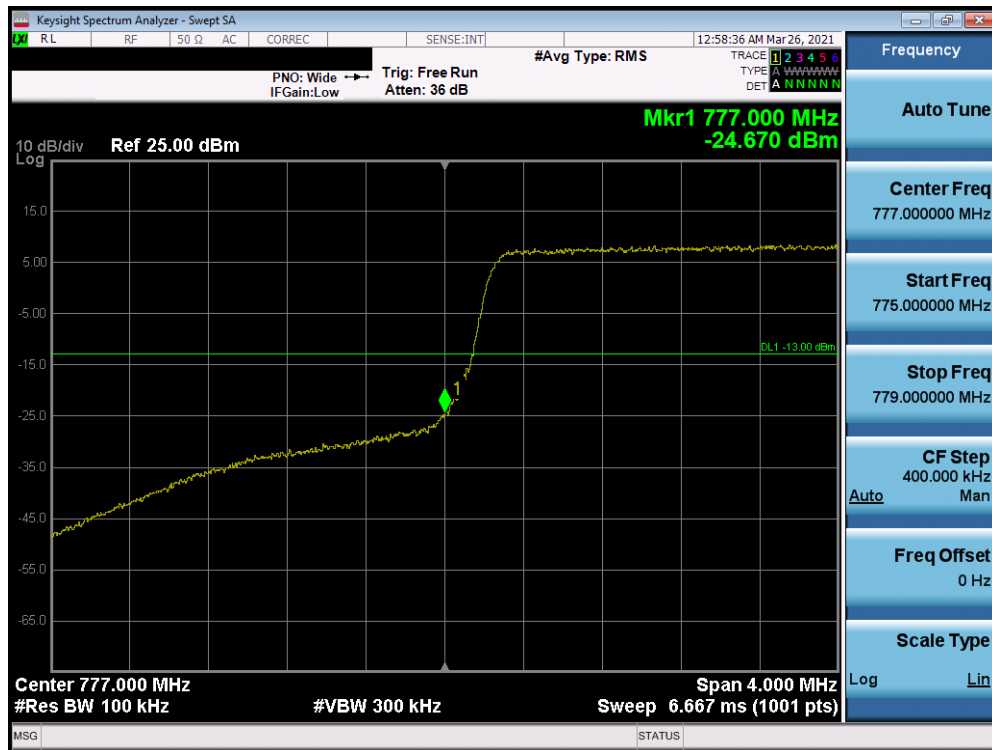
Plot 7-155. Lower Band Edge Plot (Band 17 - 10.0MHz QPSK - Full RB Configuration)



Plot 7-156. Upper Band Edge Plot (Band 17 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2603	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080051-03.BCG	Test Dates: 6/7/2021 - 7/30/2021	EUT Type: Tablet Device	Page 99 of 158

LTE Band 13



Plot 7-157. Lower Band Edge Plot (Band 13 - 5.0MHz QPSK - Full RB Configuration)

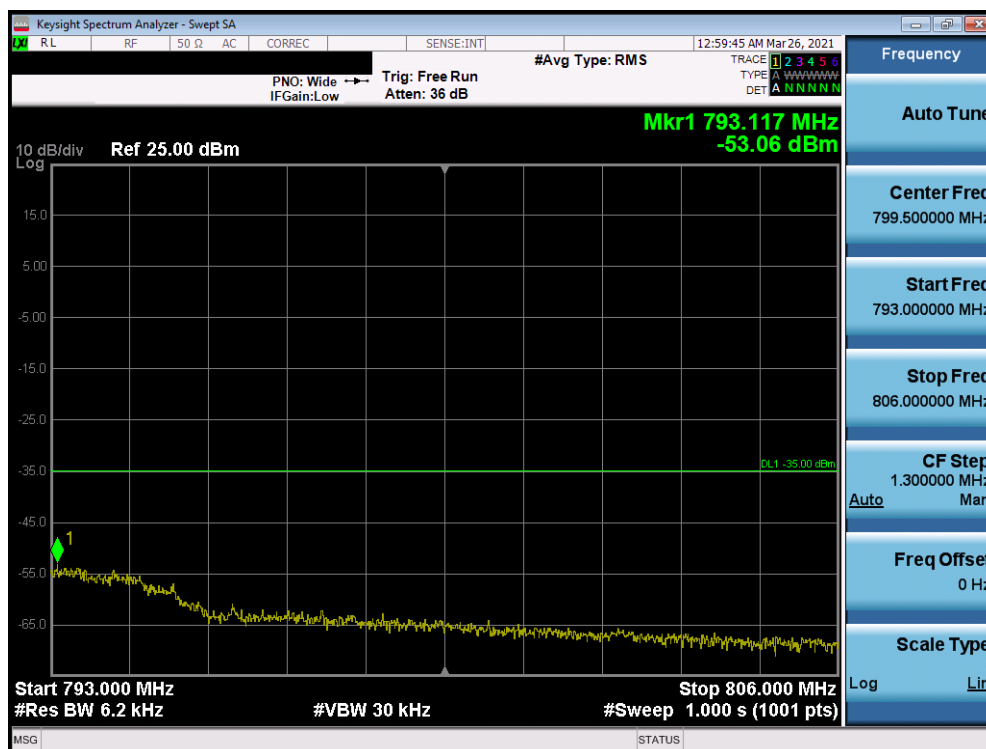


Plot 7-158. Lower Emission Mask Edge Plot (Band 13 - 5.0MHz QPSK - Full RB Configuration)


FCC ID: BCGA2603	PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080051-03.BCG	Test Dates: 6/7/2021 - 7/30/2021	EUT Type: Tablet Device	Page 100 of 158

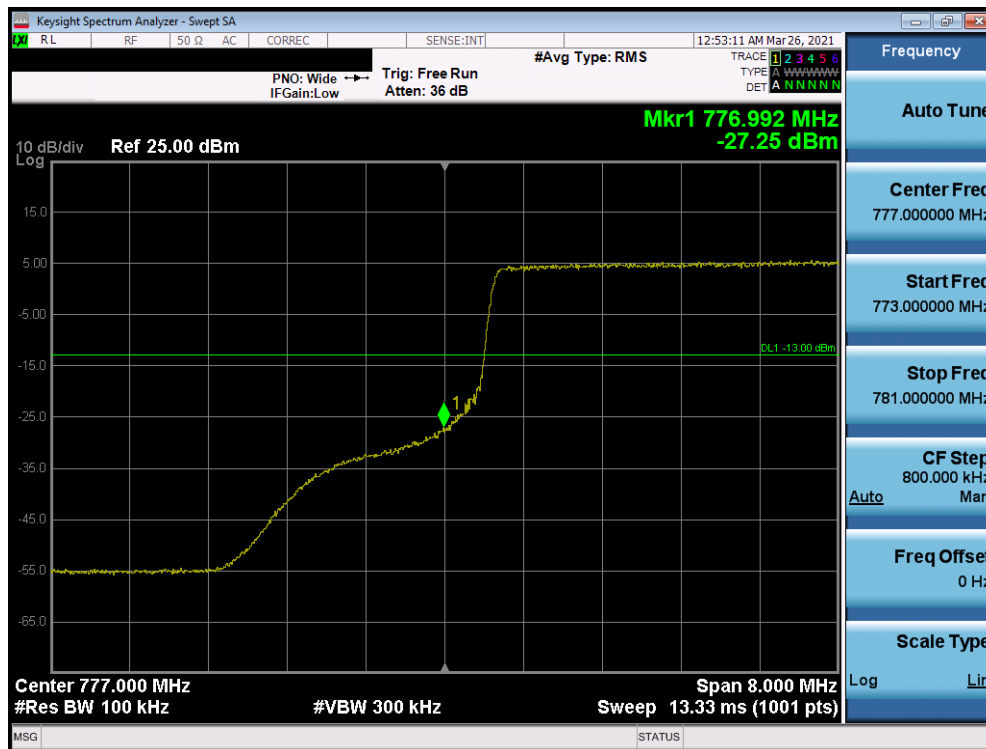


Plot 7-159. Upper Band Edge Plot (Band 13 - 5.0MHz QPSK - Full RB Configuration)

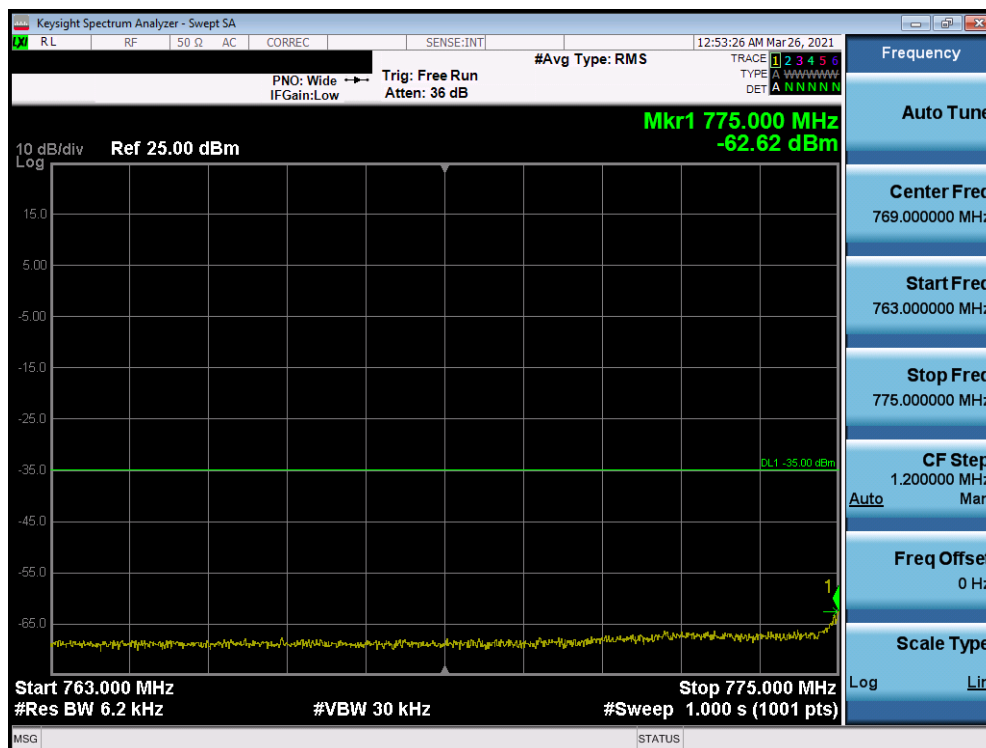


Plot 7-160. Higher Emission Mask Edge Plot (Band 13 - 5.0MHz QPSK - Full RB Configuration)


FCC ID: BCGA2603	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080051-03.BCG	Test Dates: 6/7/2021 - 7/30/2021	EUT Type: Tablet Device	Page 101 of 158

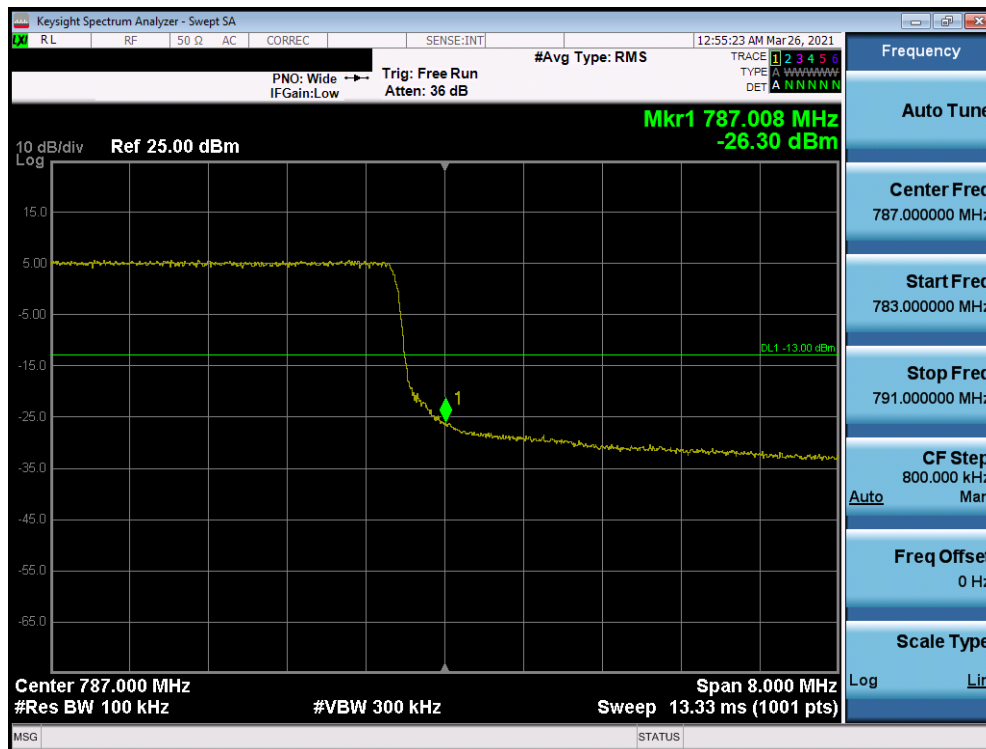


Plot 7-161. Lower Band Edge Plot (Band 13 - 10.0MHz QPSK - Full RB Configuration)



Plot 7-162. Lower Emission Mask Edge Plot (Band 13 - 10.0MHz QPSK - Full RB Configuration)


FCC ID: BCGA2603	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080051-03.BCG	Test Dates: 6/7/2021 - 7/30/2021	EUT Type: Tablet Device	Page 102 of 158



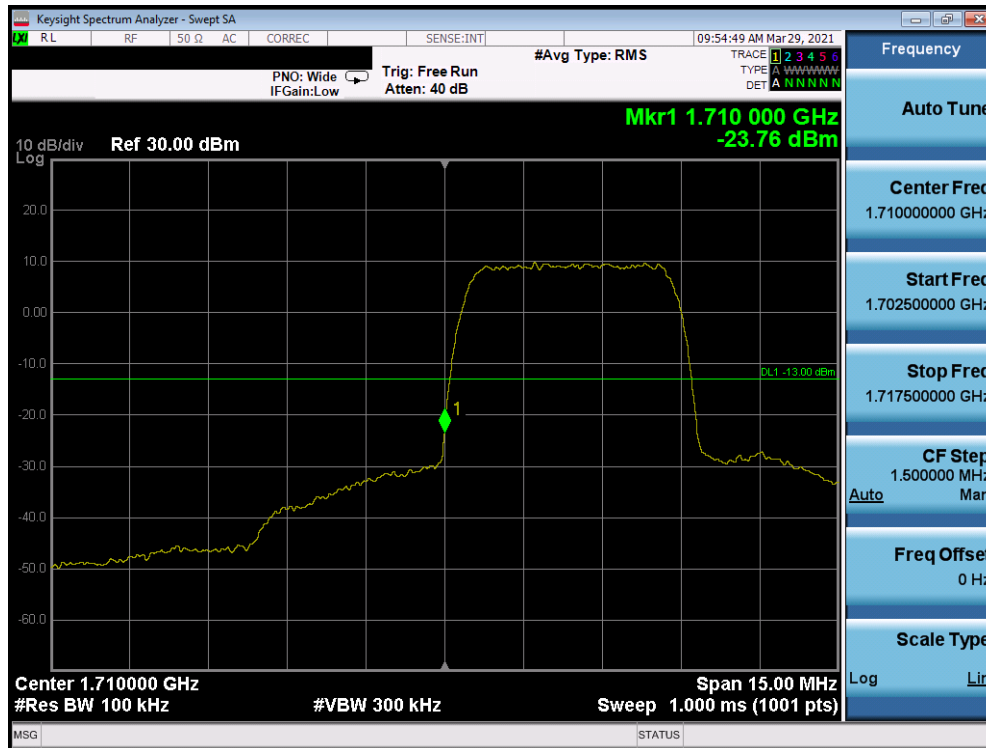
Plot 7-163. Upper Band Edge Plot (Band 13 - 10.0MHz QPSK - Full RB Configuration)



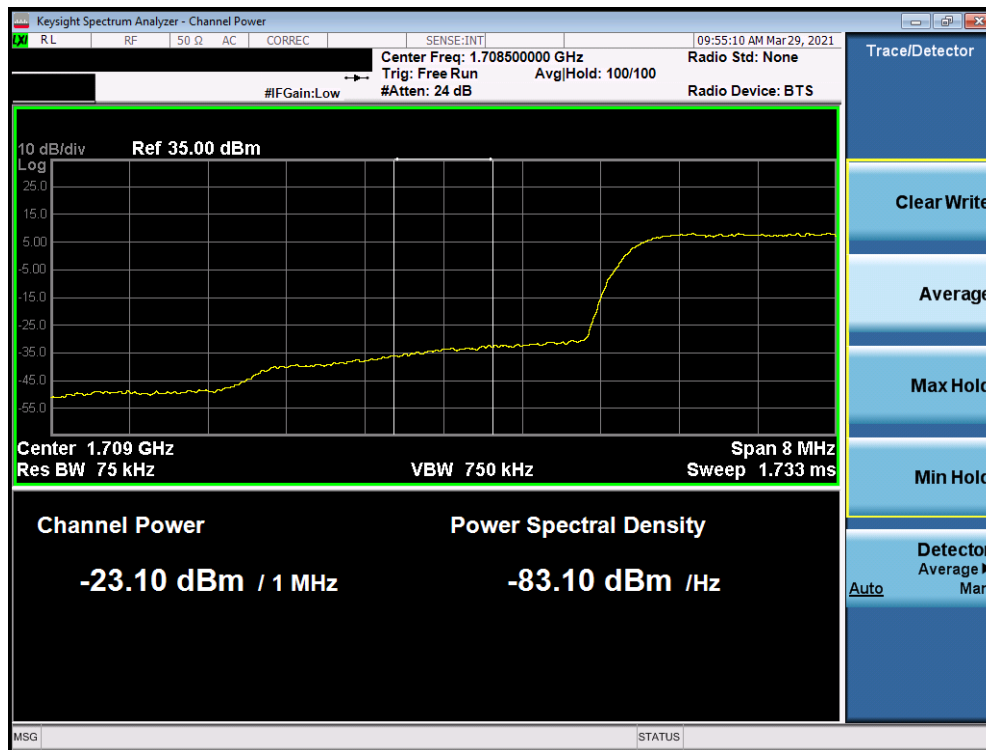
Plot 7-164. Higher Emission Mask Edge Plot (Band 13 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2603	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080051-03.BCG	Test Dates: 6/7/2021 - 7/30/2021	EUT Type: Tablet Device	Page 103 of 158

WCDMA AWS



Plot 7-165. Band Edge Plot (AWS WCDMA Mode - Low Channel)

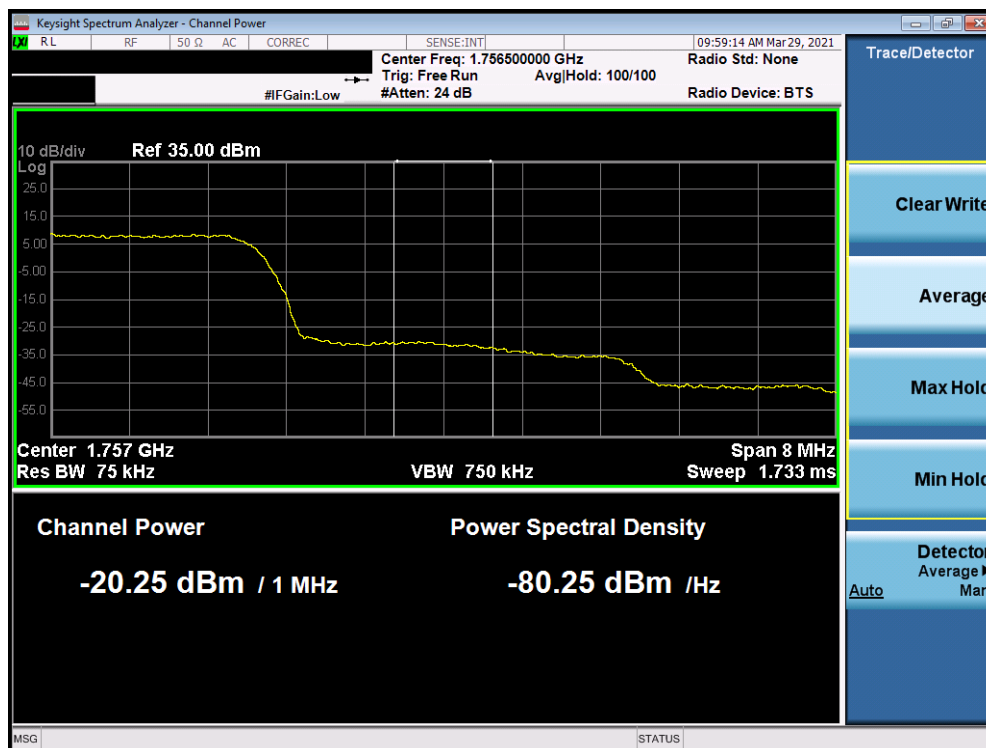


Plot 7-166. Extended Band Edge Plot (AWS WCDMA Mode - Low Channel)


FCC ID: BCGA2603	PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080051-03.BCG	Test Dates: 6/7/2021 - 7/30/2021	EUT Type: Tablet Device	Page 104 of 158



Plot 7-167. Band Edge Plot (AWS WCDMA Mode - High Channel)



Plot 7-168. Extended Band Edge Plot (AWS WCDMA Mode - High Channel)

FCC ID: BCGA2603	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080051-03.BCG	Test Dates: 6/7/2021 - 7/30/2021	EUT Type: Tablet Device	Page 105 of 158

7.5 Peak-Average Ratio §27.50(d)(5)

Test Overview

A peak to average ratio measurement is performed at the conducted port of the EUT. The spectrum analyzers Complementary Cumulative Distribution Function (CCDF) measurement profile is used to determine the largest deviation between the average and the peak power of the EUT in a given bandwidth. The CCDF curve shows how much time the peak waveform spends at or above a given average power level. The percent of time the signal spends at or above the level defines the probability for that particular power level. All ports were tested and only the worst case data were reported.

Test Procedure Used

KDB 971168 D01 v03r01 – Section 5.7.1

Test Settings

1. The signal analyzer's CCDF measurement profile is enabled
2. Frequency = carrier center frequency
3. Measurement BW \geq OBW or specified reference bandwidth
4. The signal analyzer was set to collect one million samples to generate the CCDF curve
5. The measurement interval was set depending on the type of signal analyzed. For continuous signals (>98% duty cycle), the measurement interval was set to 1ms. For burst transmissions, the spectrum analyzer is set to use an internal "RF Burst" trigger that is synced with an incoming pulse and the measurement interval is set to less than the duration of the "on time" of one burst to ensure that energy is only captured during a time in which the transmitter is operating at maximum power

Test Setup

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

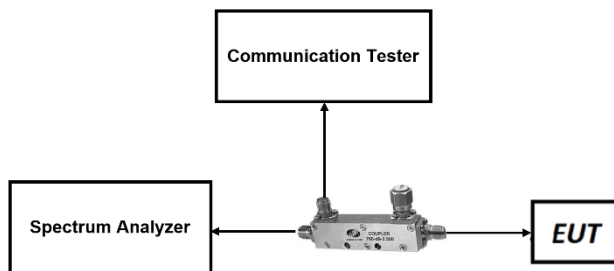



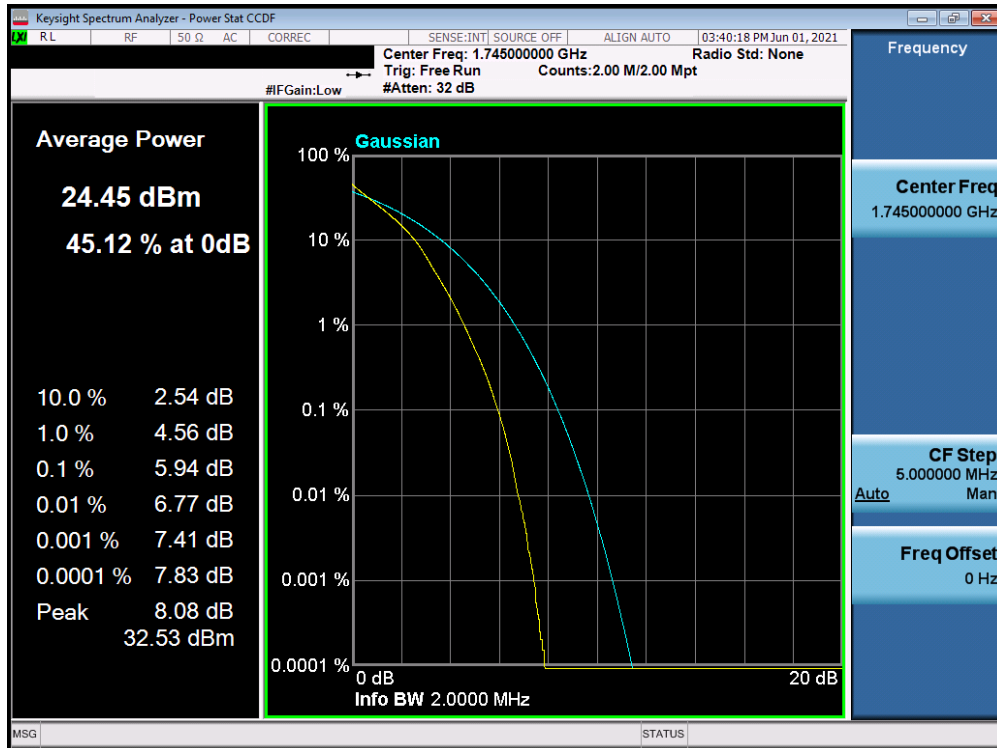
Figure 7-4. Test Instrument & Measurement Setup

Test Notes

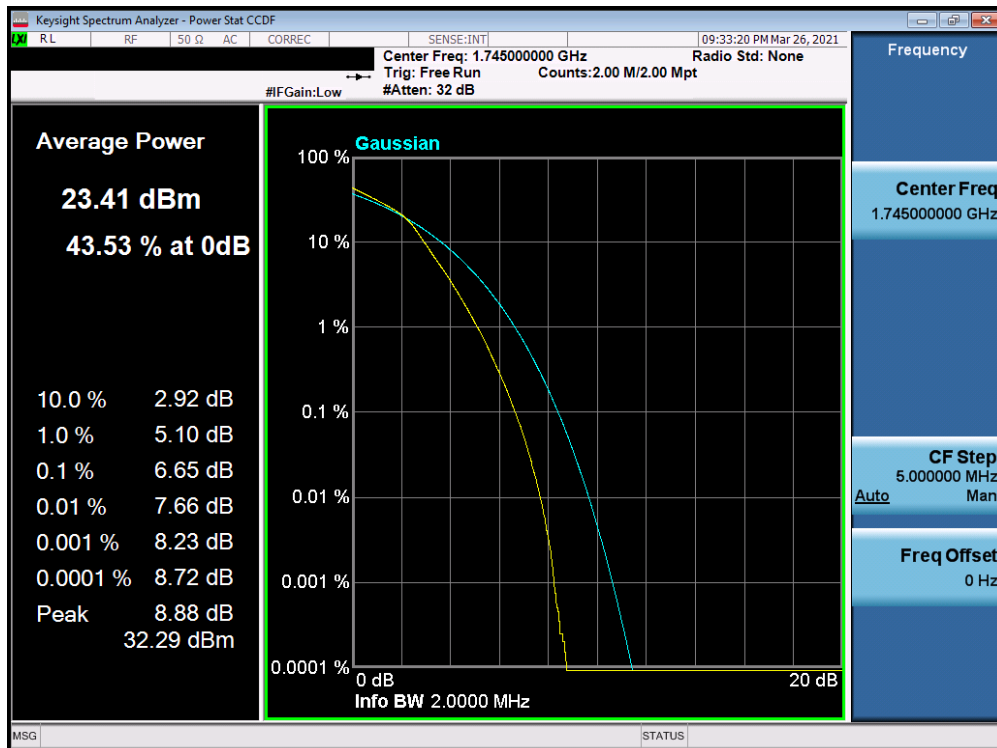
None.

FCC ID: BCGA2603	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080051-03.BCG	Test Dates: 6/7/2021 - 7/30/2021	EUT Type: Tablet Device	Page 106 of 158

LTE Band 66

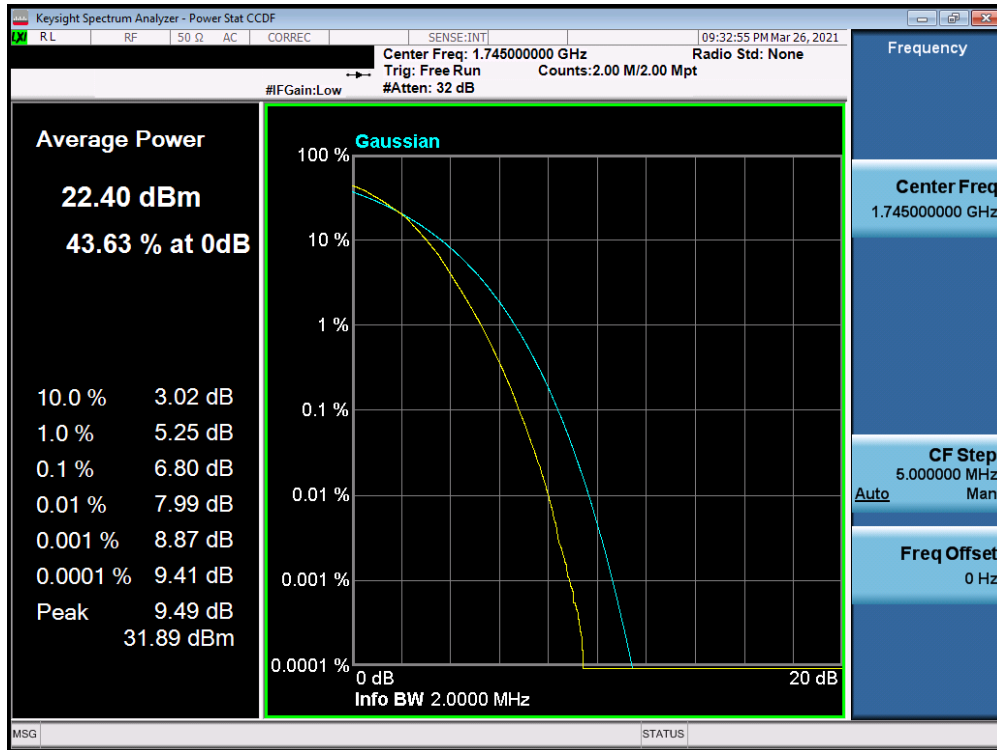


Plot 7-169. PAR Plot (LTE Band 66 - 1.4MHz QPSK - Full RB Configuration)

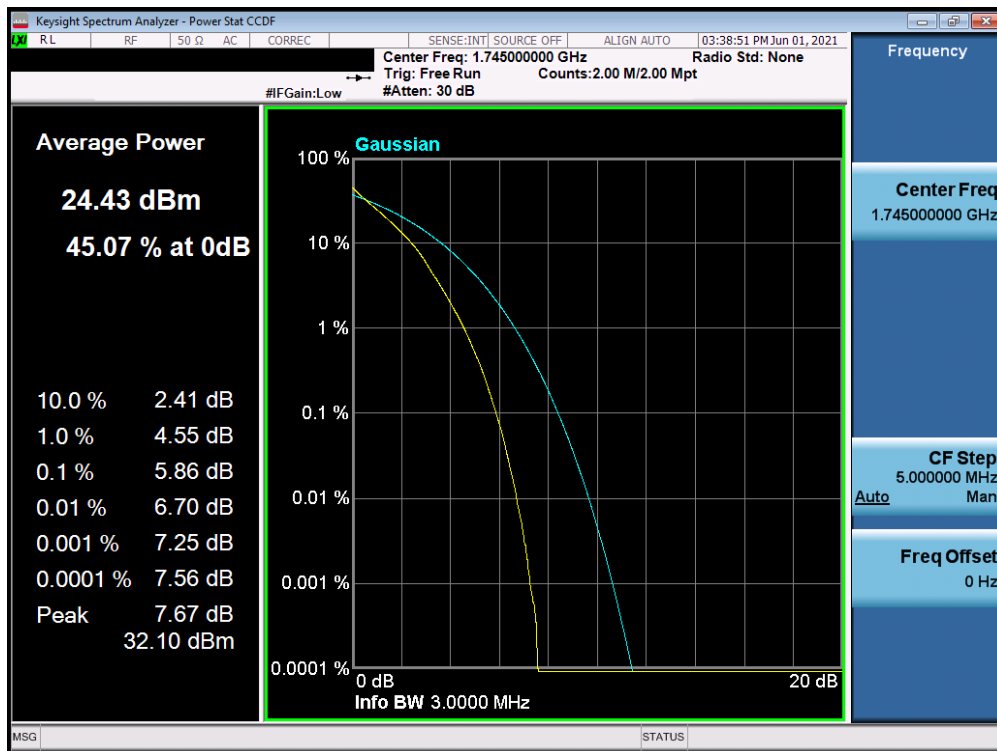


Plot 7-170. PAR Plot (LTE Band 66 - 1.4MHz 16-QAM - Full RB Configuration)

FCC ID: BCGA2603	PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080051-03.BCG	Test Dates: 6/7/2021 - 7/30/2021	EUT Type: Tablet Device	Page 107 of 158



Plot 7-171. PAR Plot (LTE Band 66 - 1.4MHz 64-QAM - Full RB Configuration)



Plot 7-172. PAR Plot (LTE Band 66 - 3MHz QPSK - Full RB Configuration)

FCC ID: BCGA2603	PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080051-03.BCG	Test Dates: 6/7/2021 - 7/30/2021	EUT Type: Tablet Device	Page 108 of 158