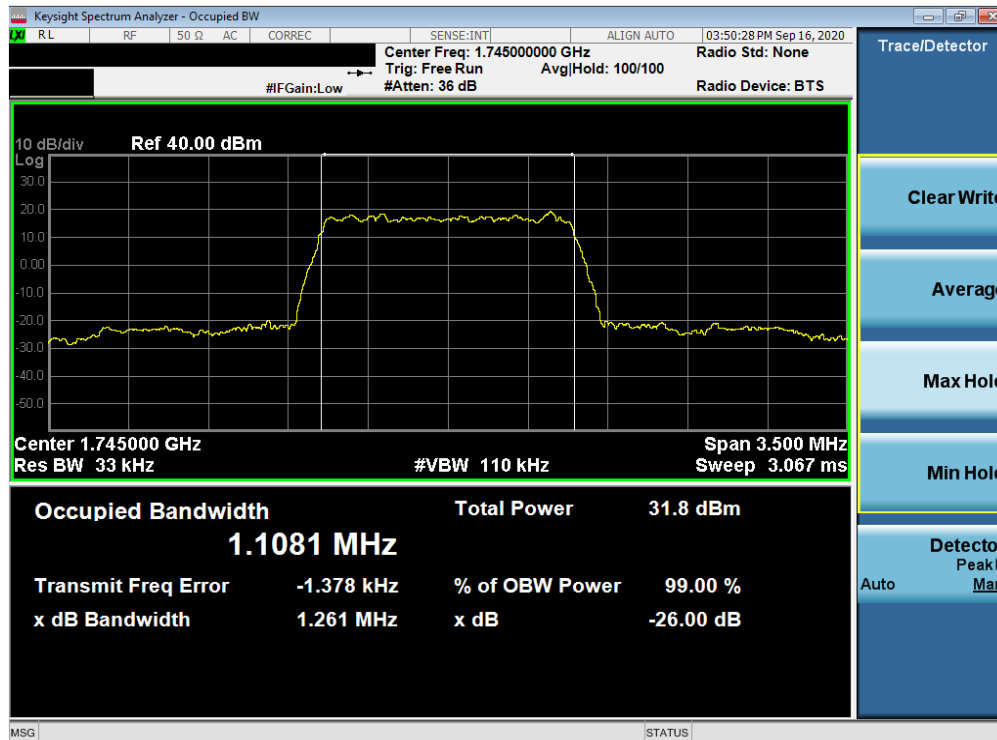
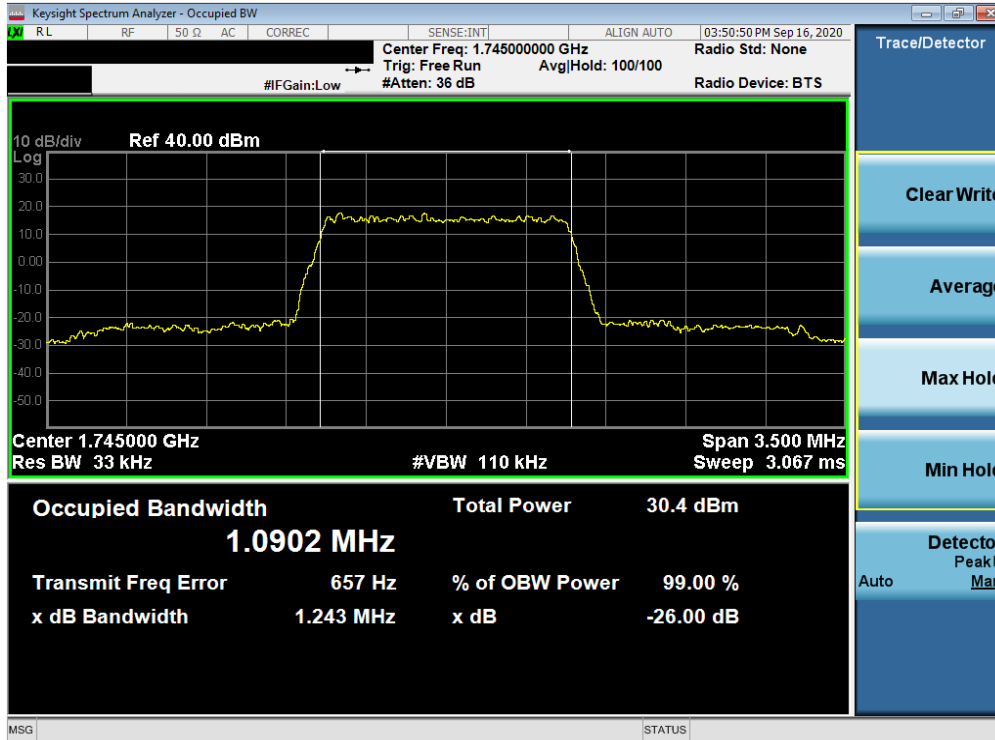


Plot 7-96. Occupied Bandwidth Plot (LTE Band 66/4 - 1.4MHz QPSK - Full RB Configuration)

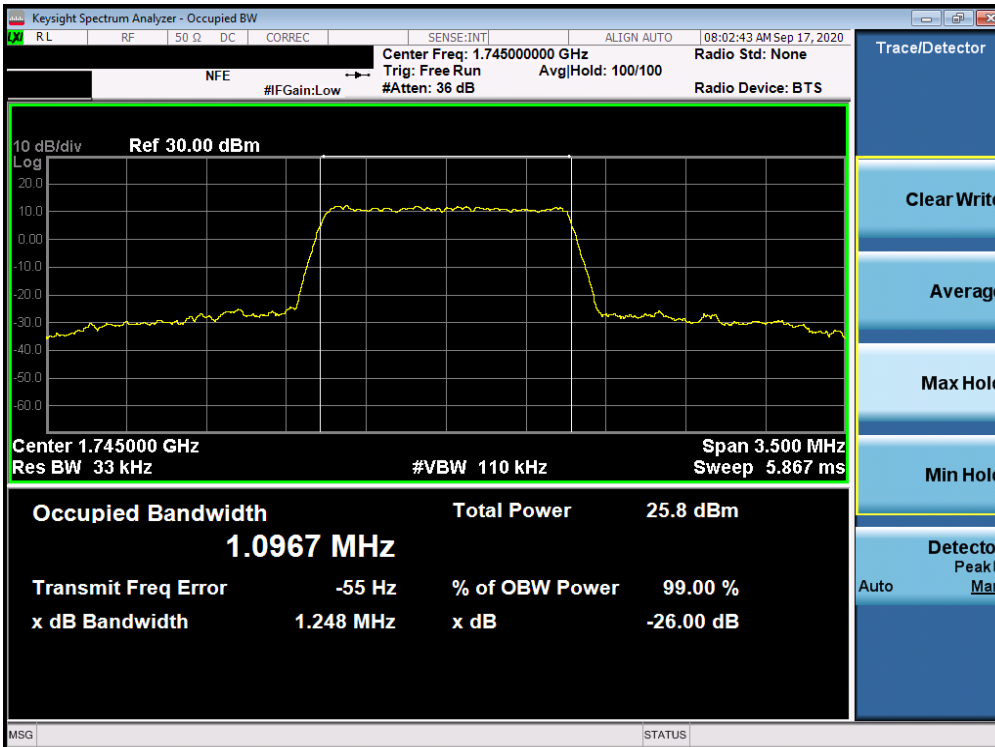


Plot 7-97. Occupied Bandwidth Plot (LTE Band 66/4 - 1.4MHz 16-QAM - Full RB Configuration)



FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
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Plot 7-98. Occupied Bandwidth Plot (LTE Band 66/4 - 1.4MHz 64-QAM - Full RB Configuration)



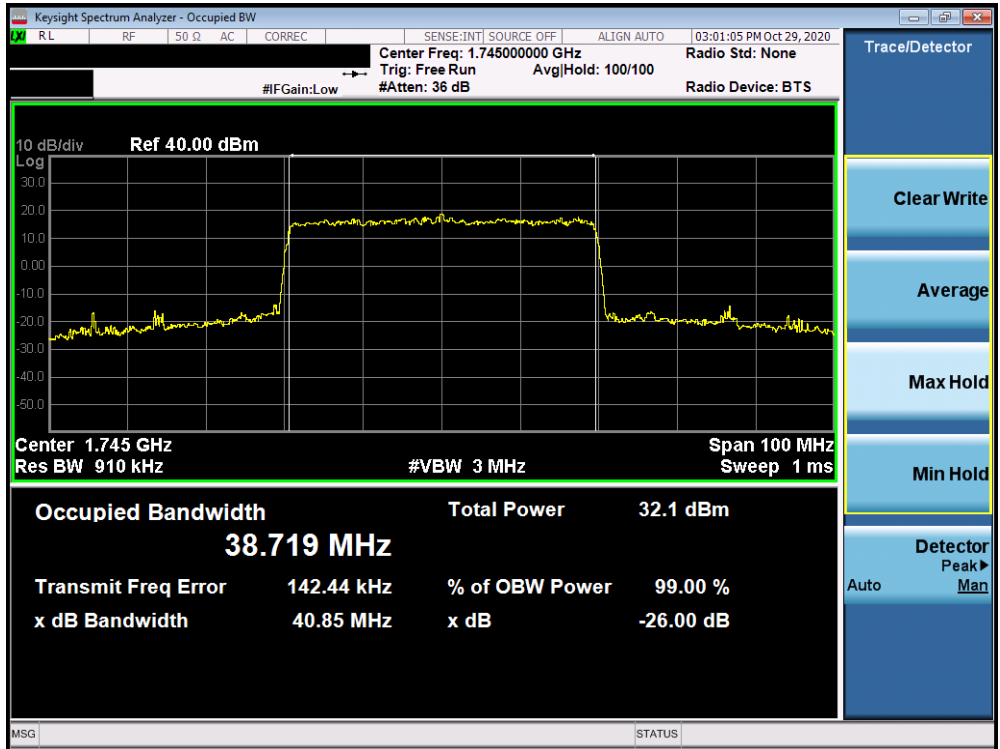
Plot 7-99. Occupied Bandwidth Plot (LTE Band 66/4 - 1.4MHz 256-QAM - Full RB Configuration)

FCC ID: A3LSMG996U		PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 – 12/05/2020	EUT Type: Portable Handset		Page 65 of 332

NR Band n66 – Antenna A



Plot 7-100. Occupied Bandwidth Plot (NR Band n66 - 40.0MHz DFT-s-OFDM BPSK - Full RB ANTENNA A)

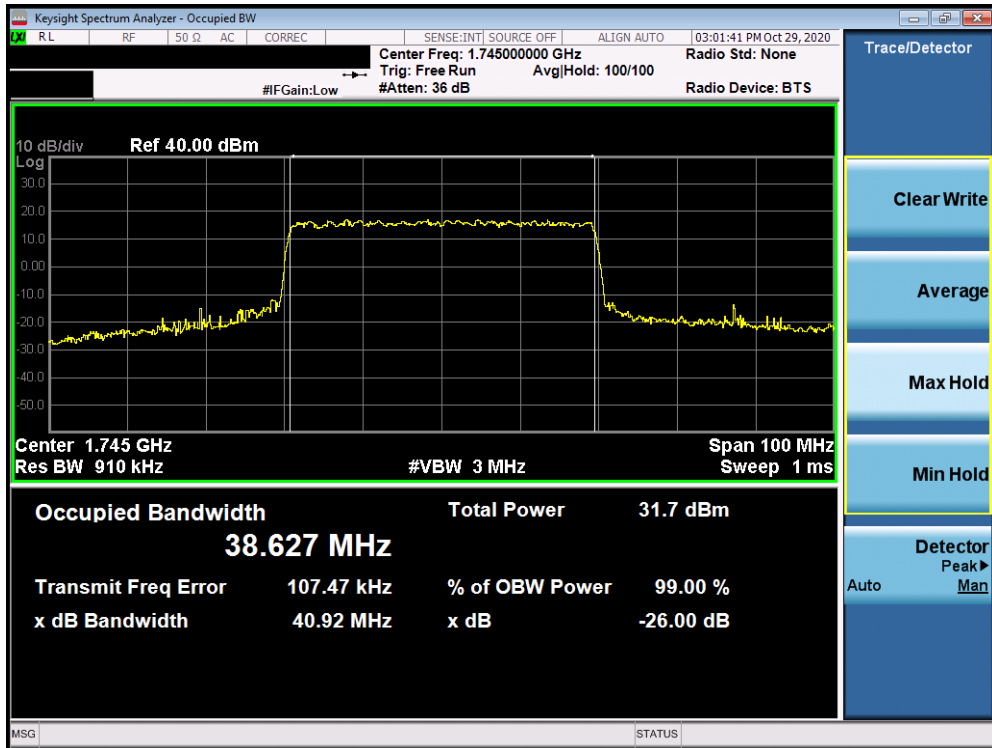


Plot 7-101. Occupied Bandwidth Plot (NR Band n66 - 40.0MHz CP-OFDM QPSK - Full RB ANTENNA A)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 – 12/05/2020	EUT Type: Portable Handset		Page 66 of 332

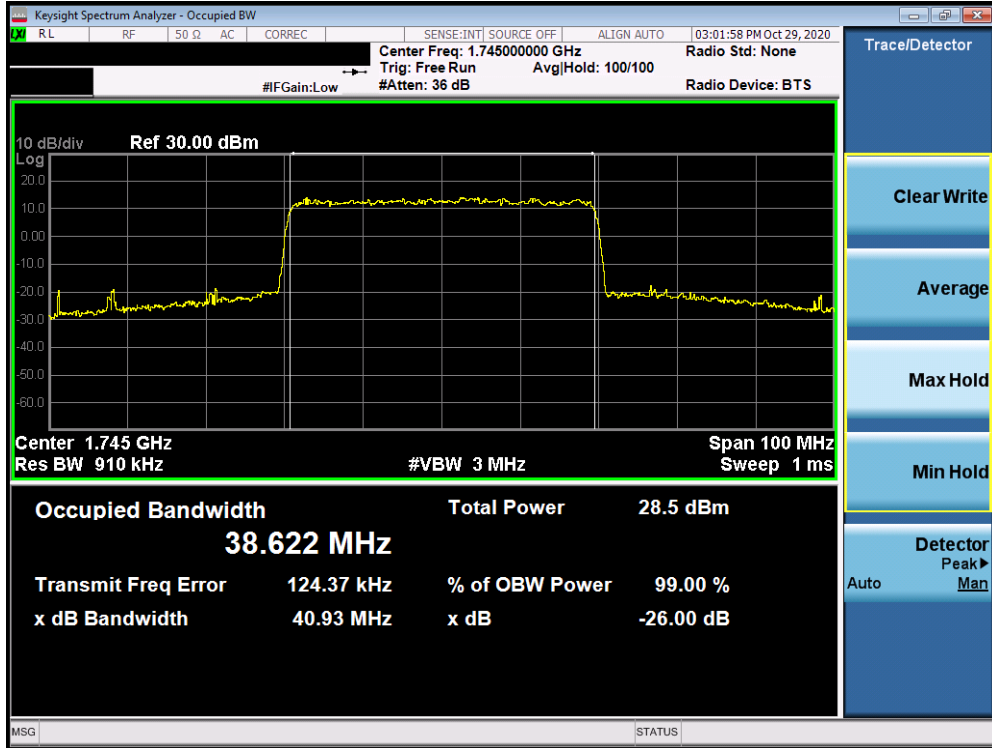


Plot 7-102. Occupied Bandwidth Plot (NR Band n66 - 40.0MHz CP-OFDM 16QAM - Full RB ANTENNA A)

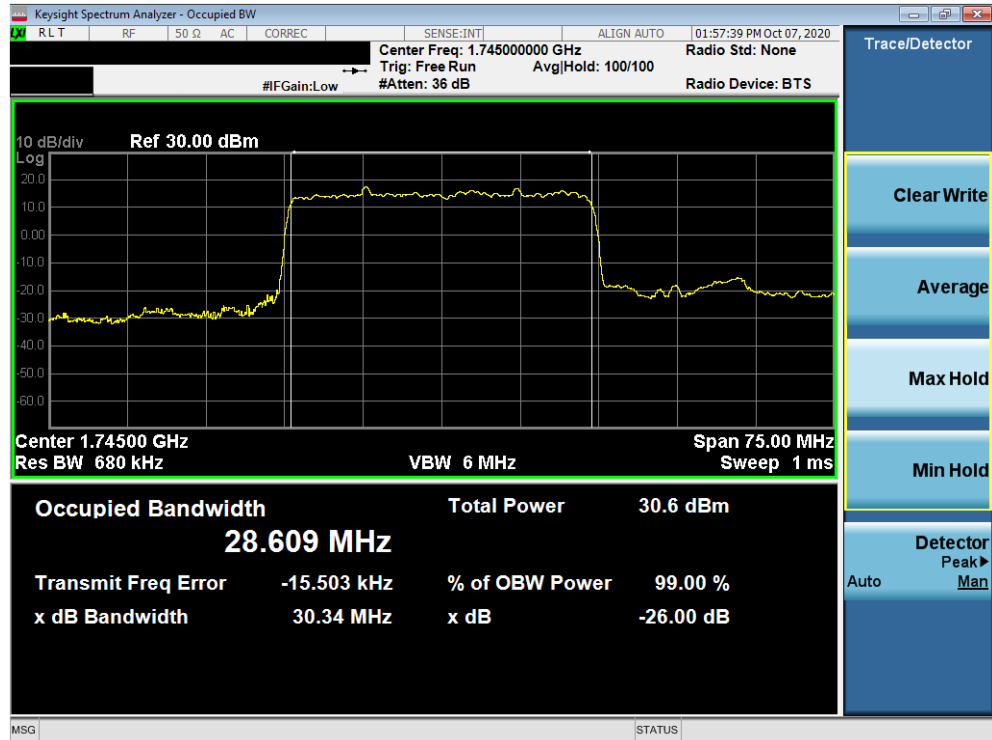


Plot 7-103. Occupied Bandwidth Plot (NR Band n66 - 40.0MHz CP-OFDM 64QAM - Full RB ANTENNA A)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 - 12/05/2020	EUT Type: Portable Handset		Page 67 of 332

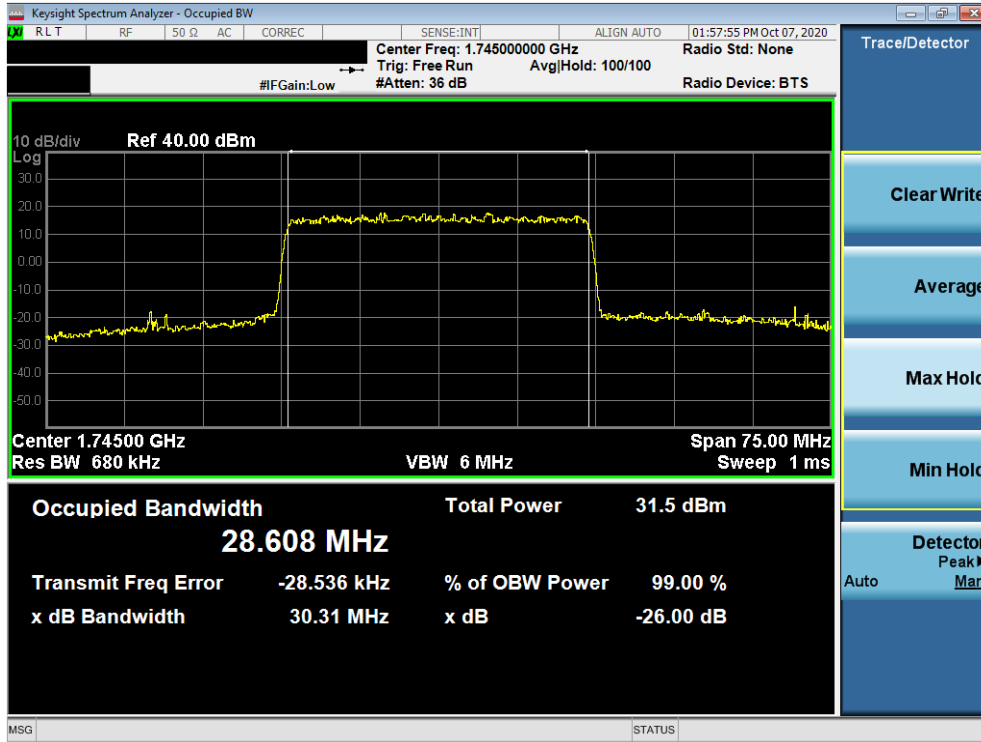


Plot 7-104. Occupied Bandwidth Plot (NR Band n66 - 40.0MHz CP-OFDM 256QAM - Full RB ANTENNA A)

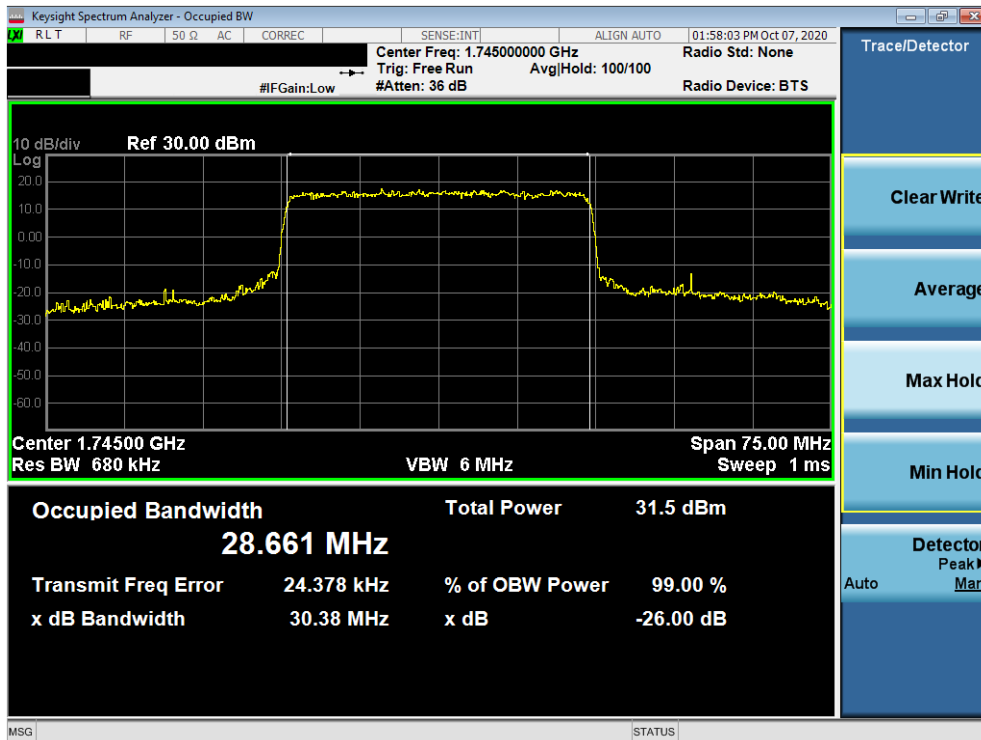


Plot 7-105. Occupied Bandwidth Plot (NR Band n66 - 30.0MHz DFT-s-OFDM BPSK - Full RB ANTENNA A)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 - 12/05/2020	EUT Type: Portable Handset		Page 68 of 332

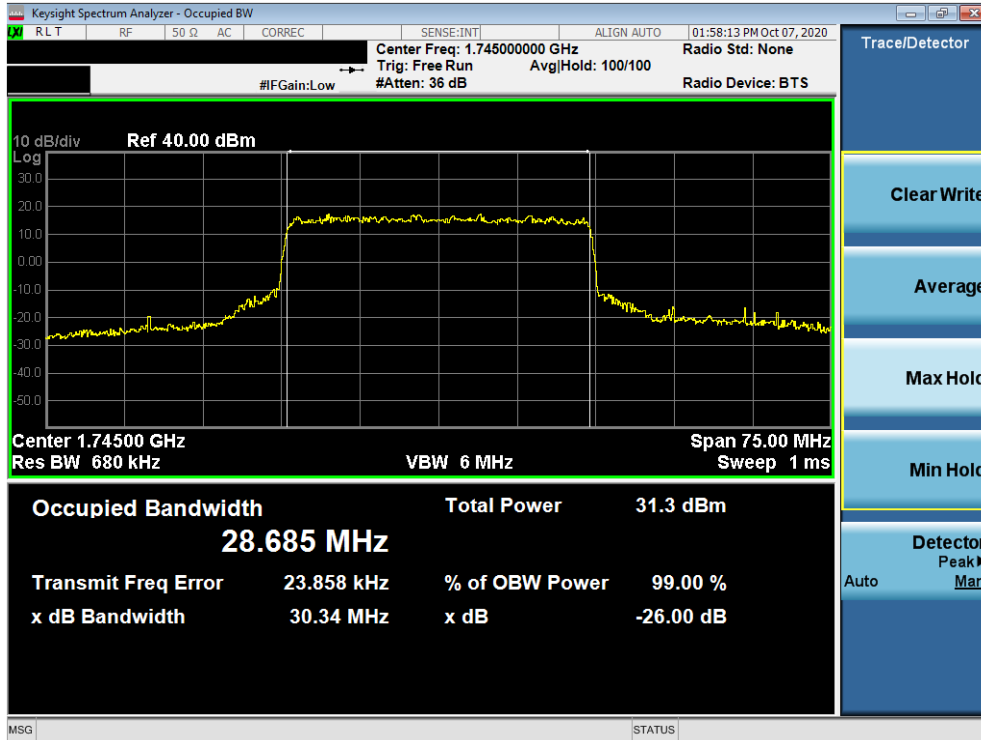


Plot 7-106. Occupied Bandwidth Plot (NR Band n66 - 30.0MHz CP-OFDM QPSK - Full RB ANTENNA A)



Plot 7-107. Occupied Bandwidth Plot (NR Band n66 - 30.0MHz CP-OFDM 16QAM - Full RB ANTENNA A)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 - 12/05/2020	EUT Type: Portable Handset		Page 69 of 332

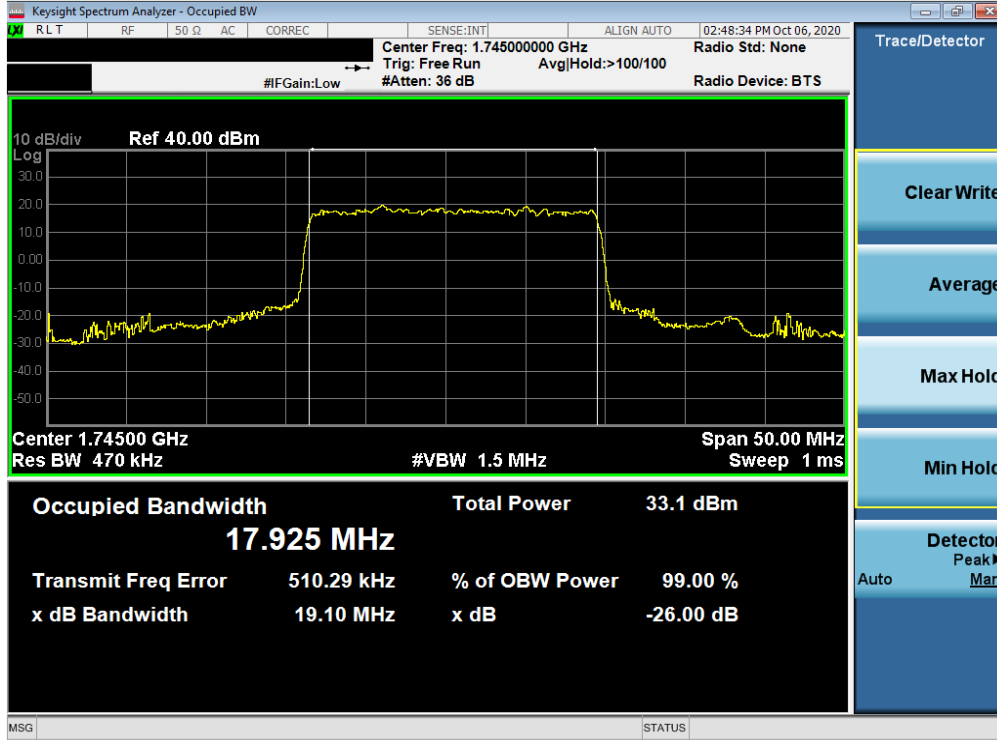


Plot 7-108. Occupied Bandwidth Plot (NR Band n66 - 30.0MHz CP-OFDM 64QAM - Full RB ANTENNA A)



Plot 7-109. Occupied Bandwidth Plot (NR Band n66 - 30.0MHz CP-OFDM 256QAM - Full RB ANTENNA A)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 - 12/05/2020	EUT Type: Portable Handset		Page 70 of 332

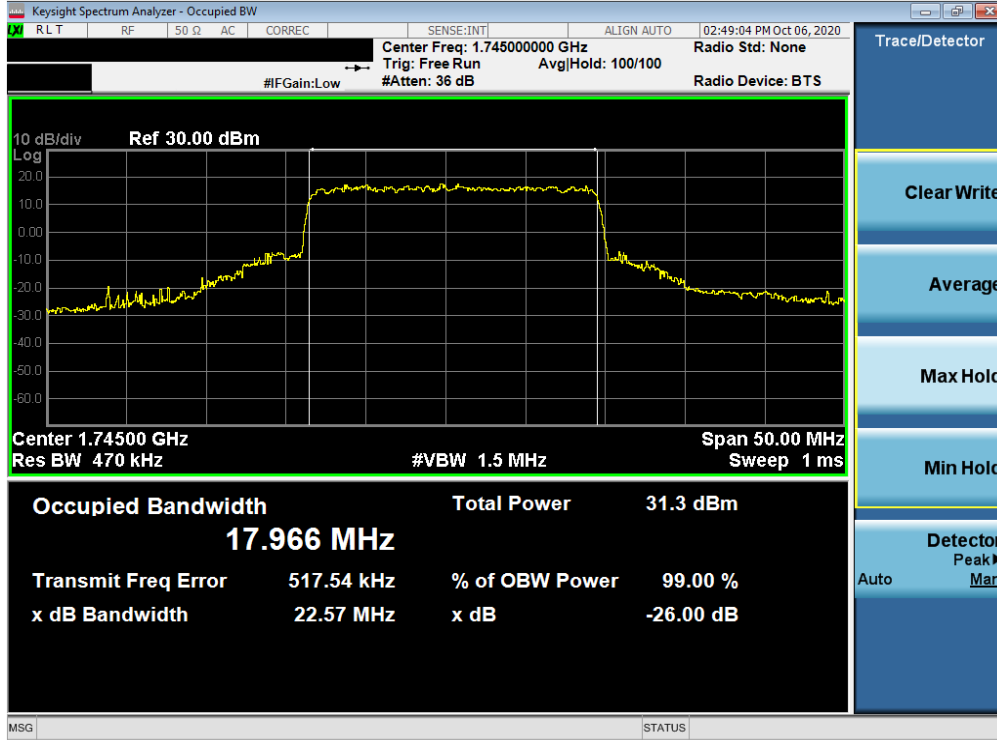


Plot 7-110. Occupied Bandwidth Plot (NR Band n66 - 20.0MHz DFT-s-OFDM BPSK - Full RB ANTENNA A)



Plot 7-111. Occupied Bandwidth Plot (NR Band n66 - 20.0MHz CP-OFDM QPSK - Full RB ANTENNA A)



FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 - 12/05/2020	EUT Type: Portable Handset		Page 71 of 332

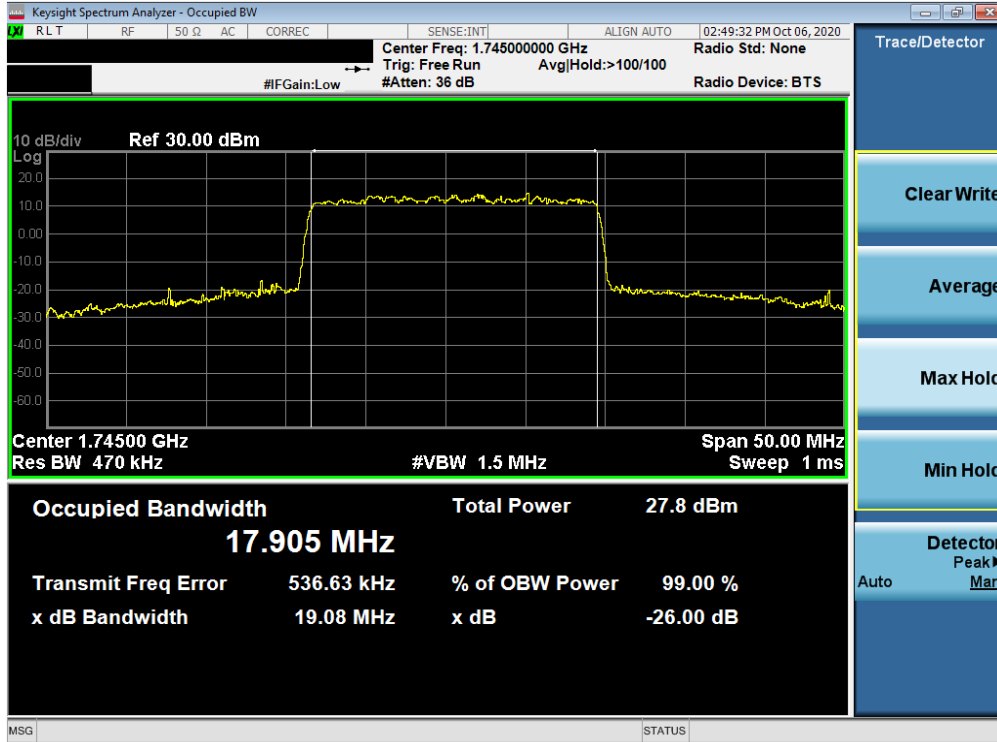


Plot 7-112. Occupied Bandwidth Plot (NR Band n66 - 20.0MHz CP-OFDM 16QAM - Full RB ANTENNA A)

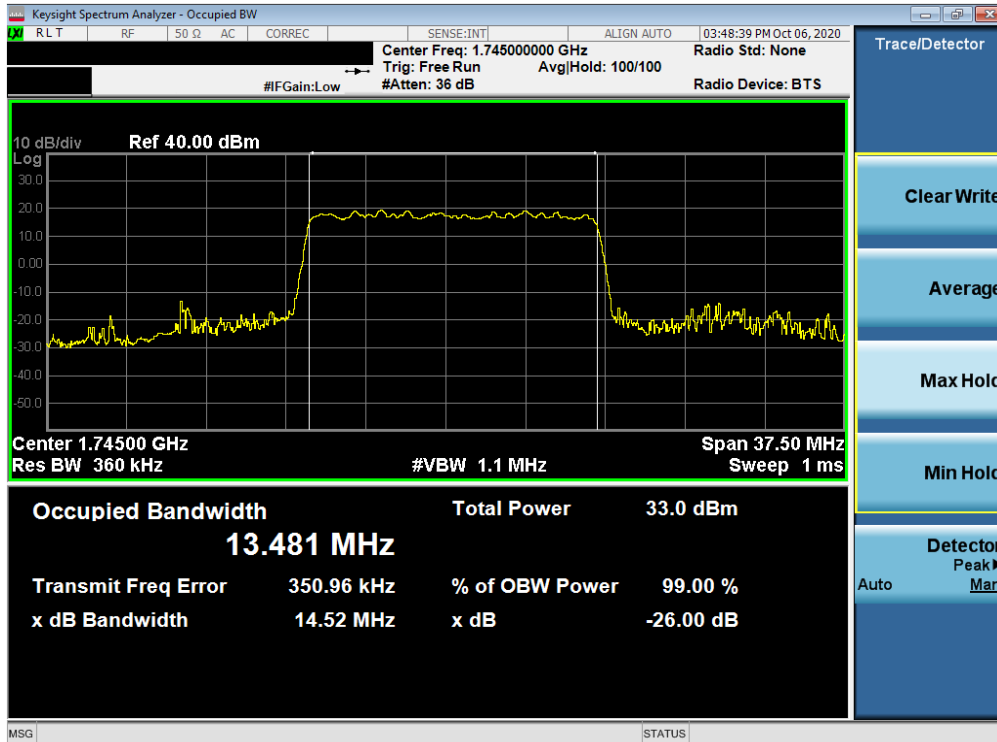


Plot 7-113. Occupied Bandwidth Plot (NR Band n66 - 20.0MHz CP-OFDM 64QAM - Full RB ANTENNA A)

FCC ID: A3LSMG996U		PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 – 12/05/2020	EUT Type: Portable Handset		Page 72 of 332

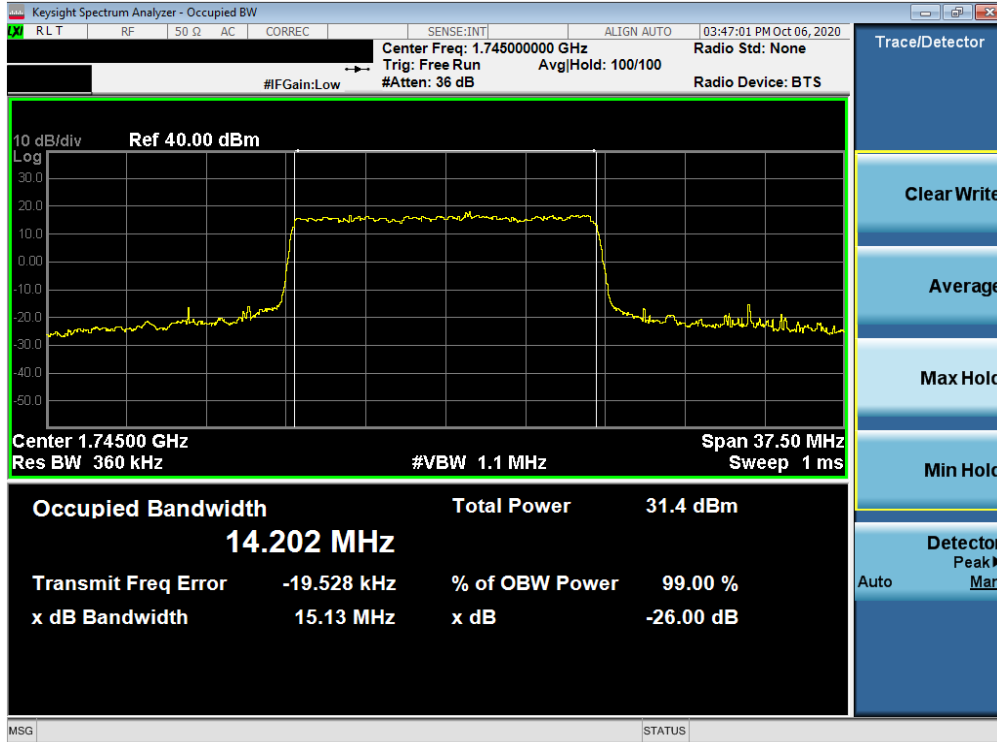


Plot 7-114. Occupied Bandwidth Plot (NR Band n66 - 20.0MHz CP-OFDM 256QAM - Full RB ANTENNA A)

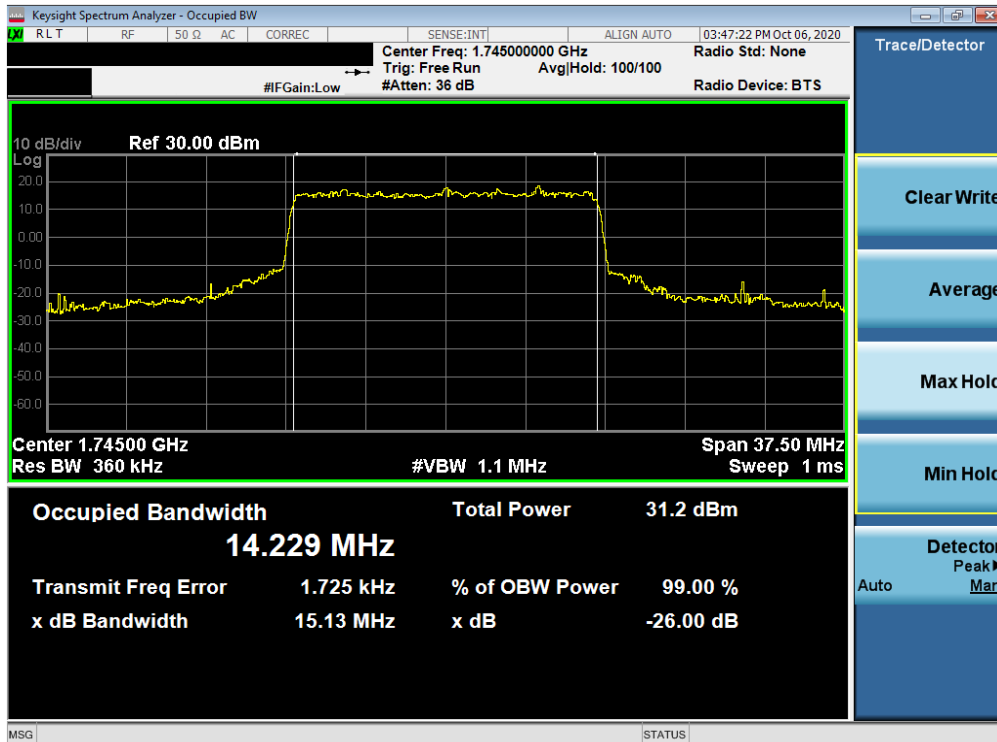


Plot 7-115. Occupied Bandwidth Plot (NR Band n66 - 15.0MHz DFT-s-OFDM BPSK - Full RB ANTENNA A)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 - 12/05/2020	EUT Type: Portable Handset		Page 73 of 332

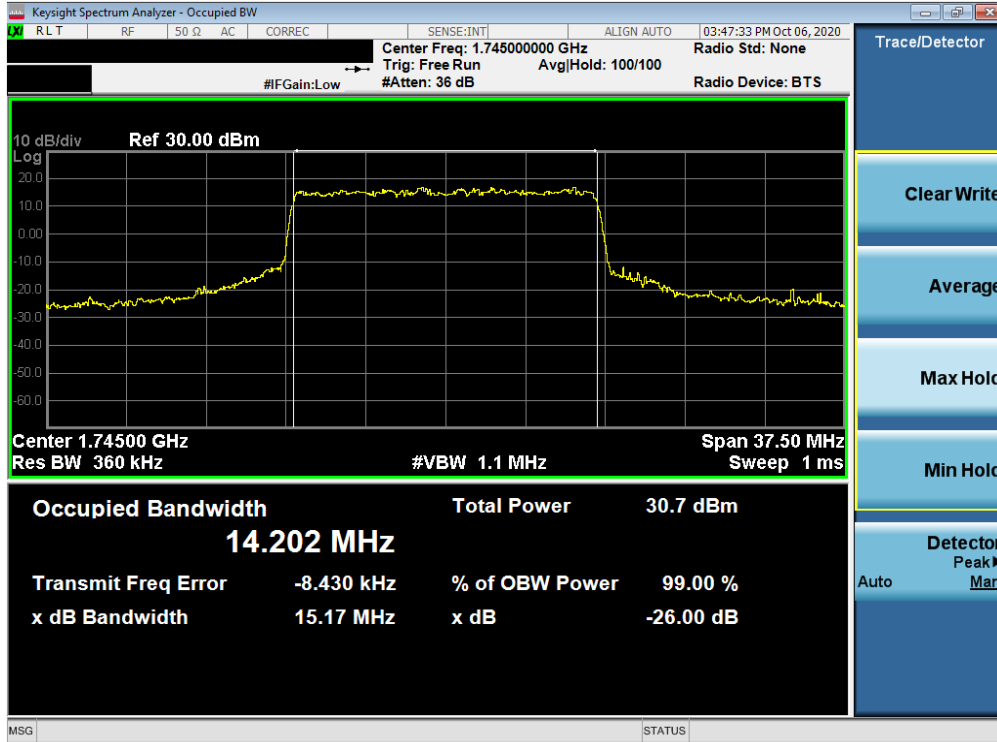


Plot 7-116. Occupied Bandwidth Plot (NR Band n66 - 15.0MHz CP-OFDM QPSK - Full RB ANTENNA A)

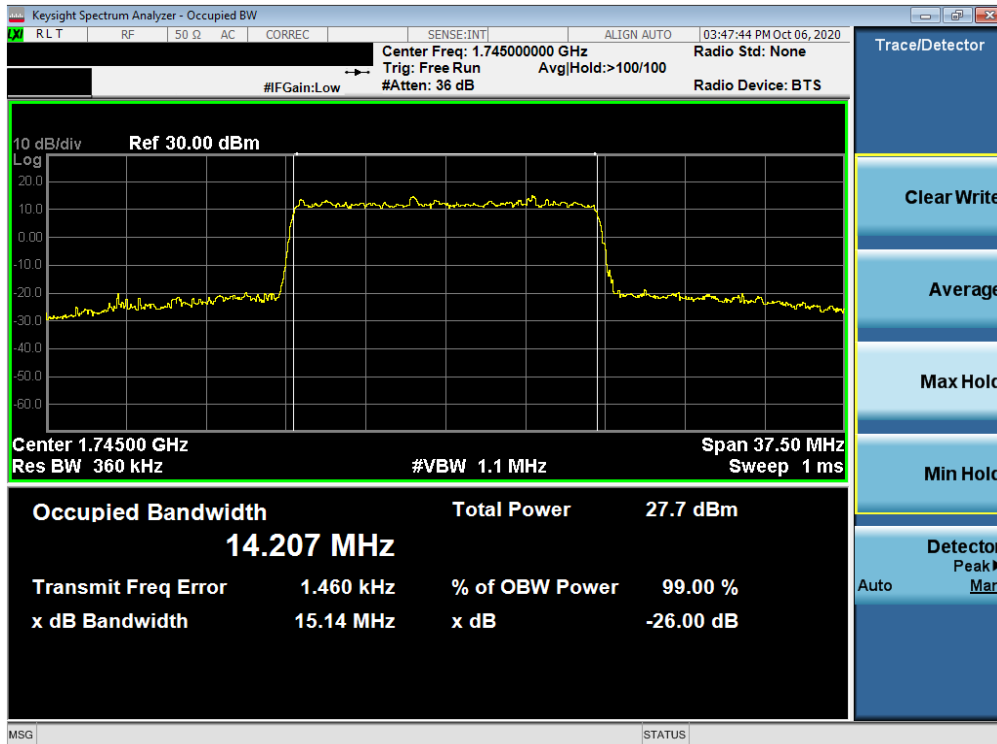


Plot 7-117. Occupied Bandwidth Plot (NR Band n66 - 15.0MHz CP-OFDM 16QAM - Full RB ANTENNA A)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 - 12/05/2020	EUT Type: Portable Handset		Page 74 of 332

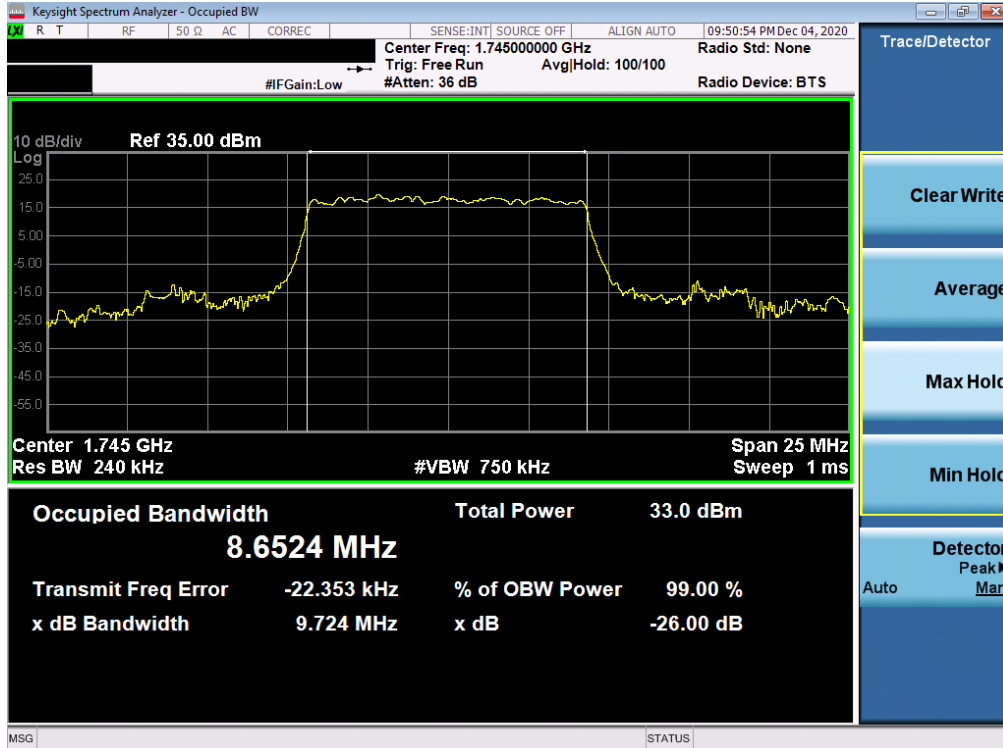


Plot 7-118. Occupied Bandwidth Plot (NR Band n66 - 15.0MHz CP-OFDM 64QAM - Full RB ANTENNA A)

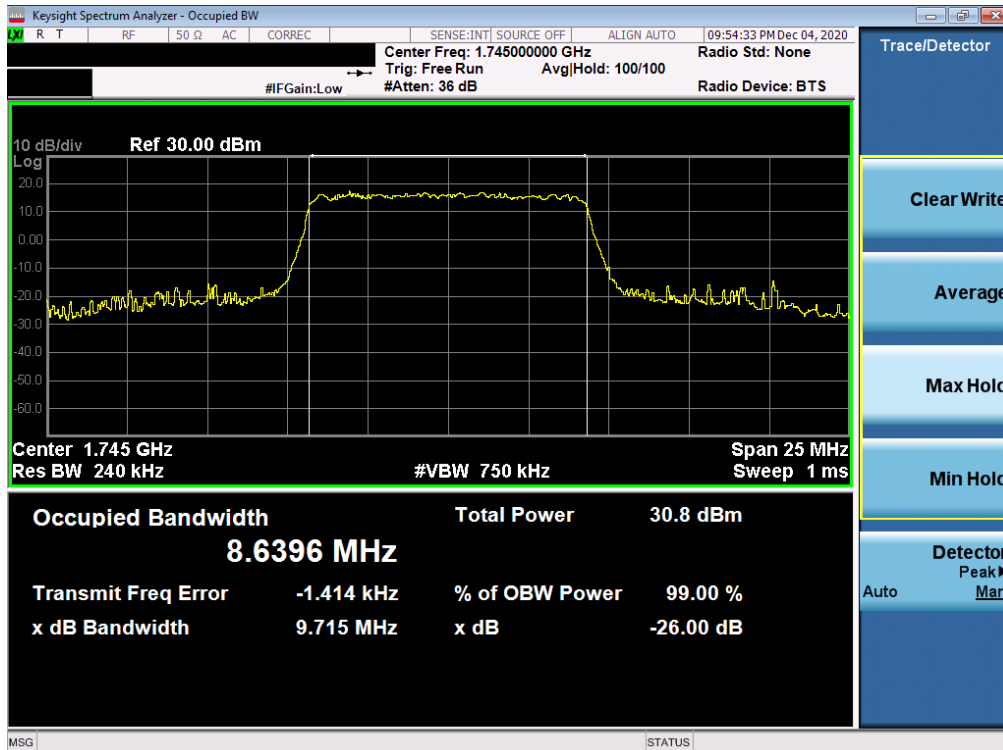


Plot 7-119. Occupied Bandwidth Plot (NR Band n66 - 15.0MHz CP-OFDM 256QAM - Full RB ANTENNA A)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 - 12/05/2020	EUT Type: Portable Handset		Page 75 of 332

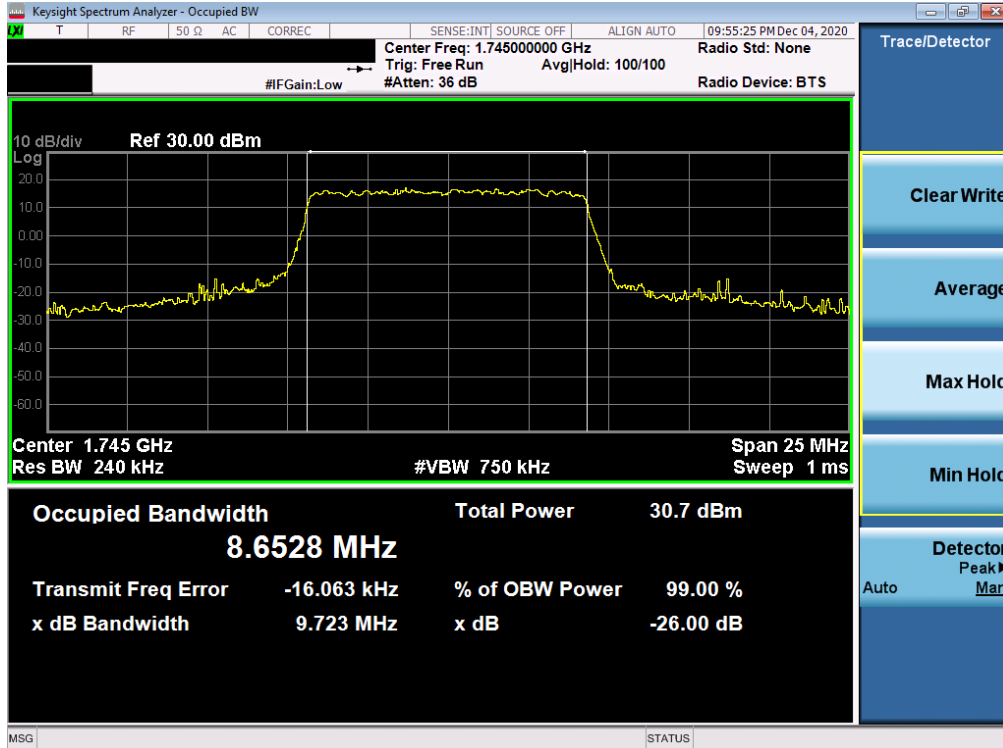


Plot 7-120. Occupied Bandwidth Plot (NR Band n66 - 10.0MHz DFT-s-OFDM BPSK - Full RB ANTENNA A)

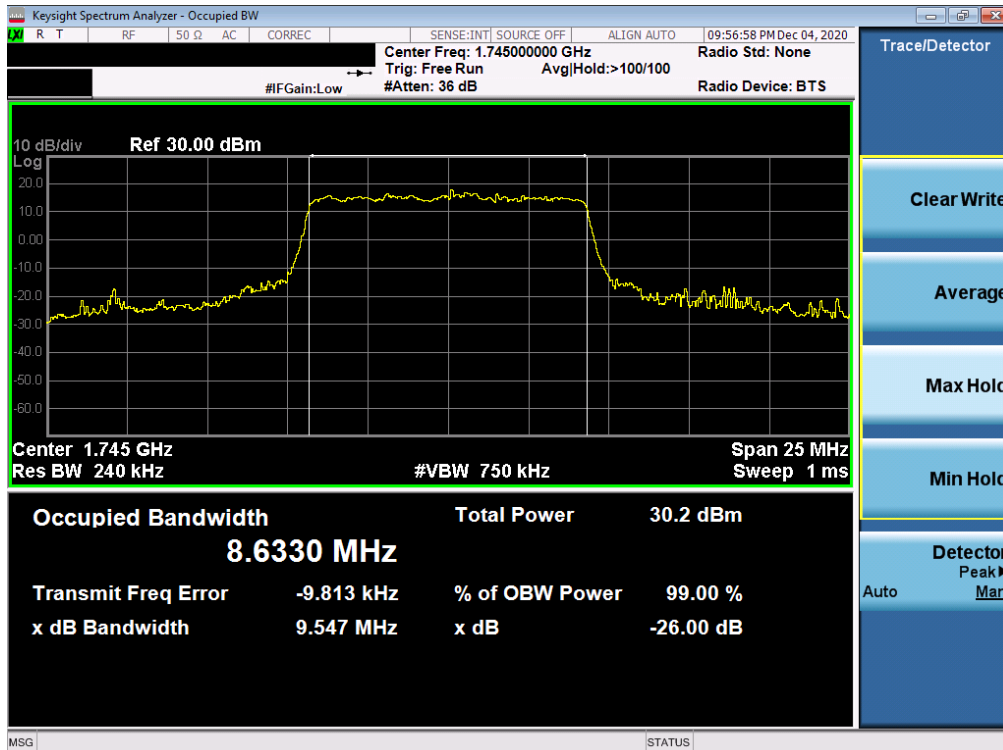


Plot 7-121. Occupied Bandwidth Plot (NR Band n66 - 10.0MHz CP-OFDM QPSK - Full RB ANTENNA A)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 - 12/05/2020	EUT Type: Portable Handset		Page 76 of 332

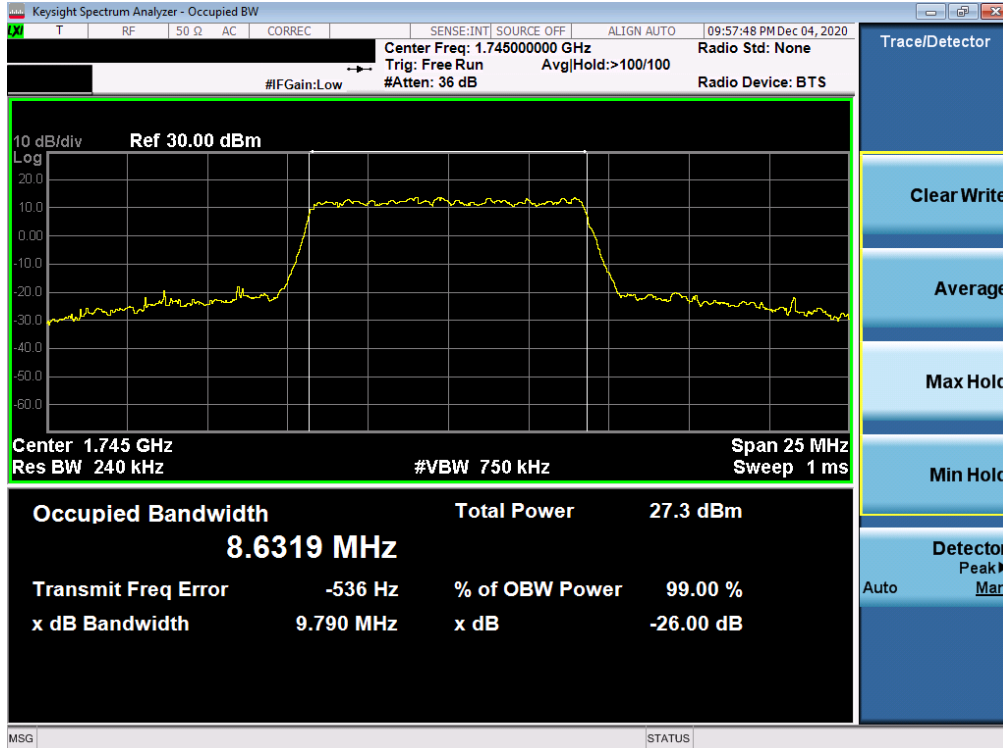


Plot 7-122. Occupied Bandwidth Plot (NR Band n66 - 10.0MHz CP-OFDM 16QAM - Full RB ANTENNA A)

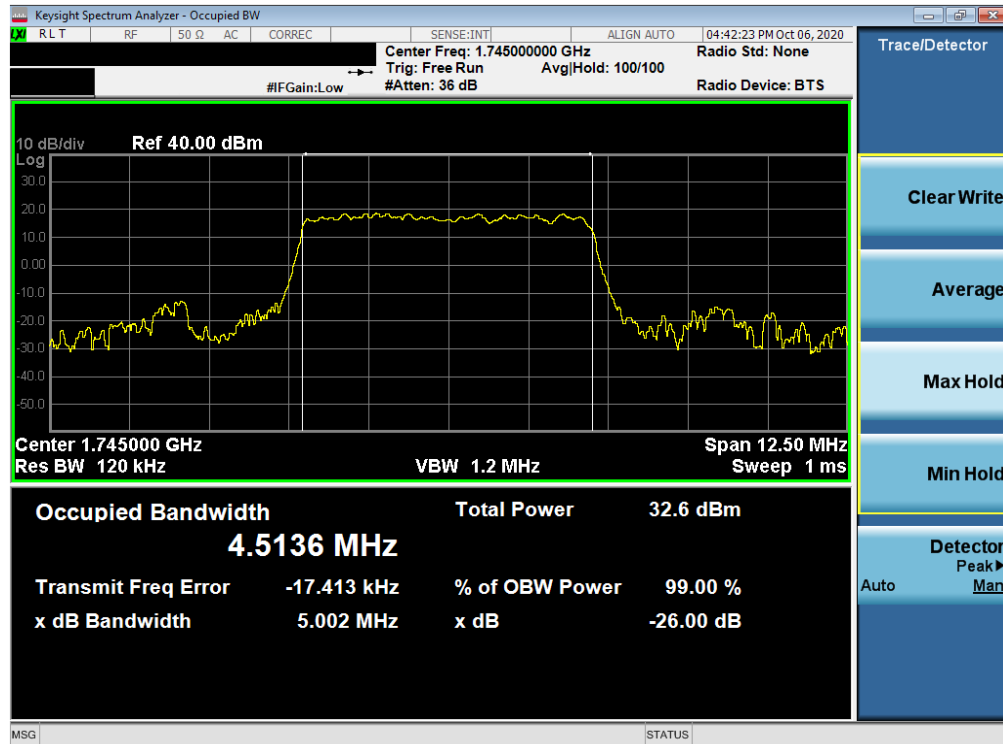


Plot 7-123. Occupied Bandwidth Plot (NR Band n66 - 10.0MHz CP-OFDM 64QAM - Full RB ANTENNA A)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 - 12/05/2020	EUT Type: Portable Handset		Page 77 of 332

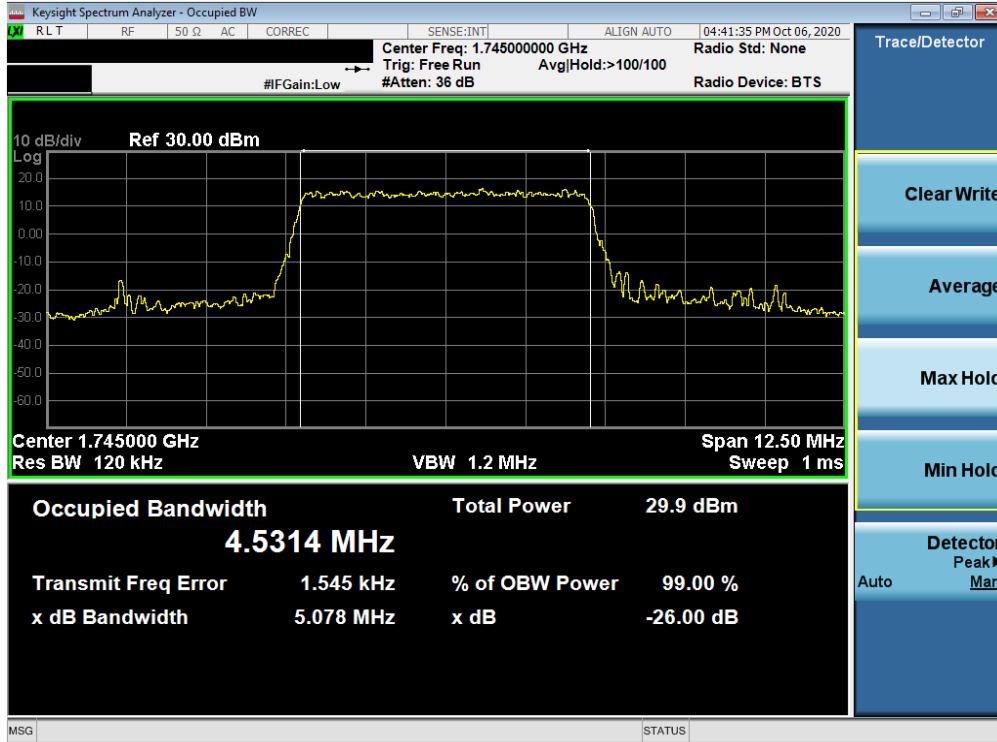


Plot 7-124. Occupied Bandwidth Plot (NR Band n66 - 10.0MHz CP-OFDM 256QAM - Full RB ANTENNA A)

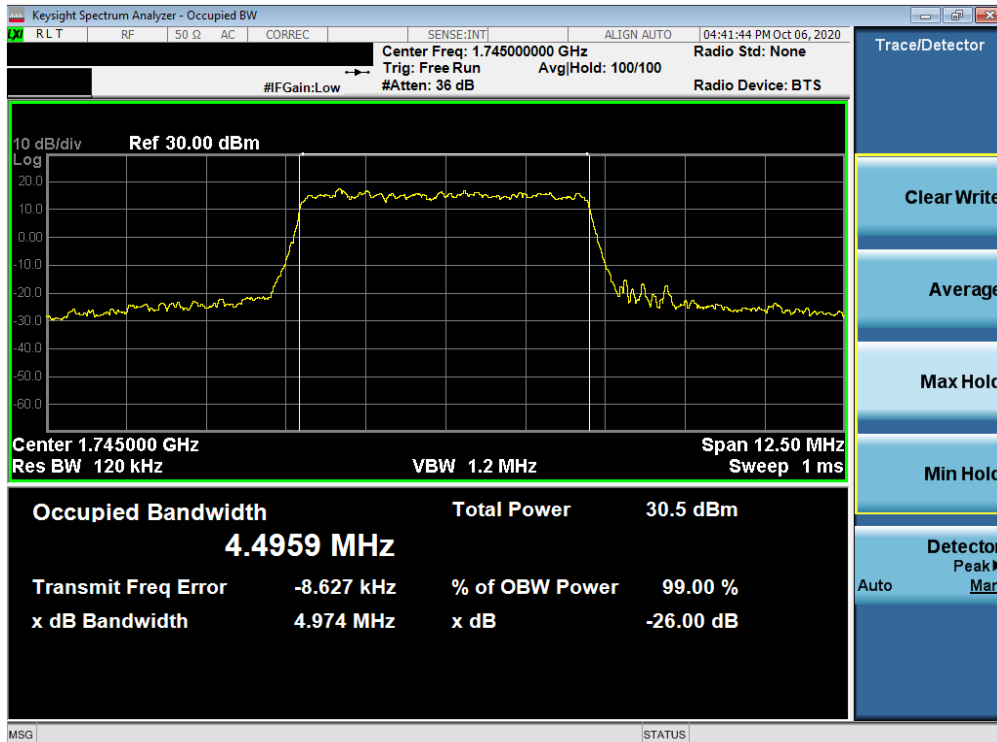


Plot 7-125. Occupied Bandwidth Plot (NR Band n66 - 5.0MHz DFT-s-OFDM BPSK - Full RB ANTENNA A)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 - 12/05/2020	EUT Type: Portable Handset		Page 78 of 332

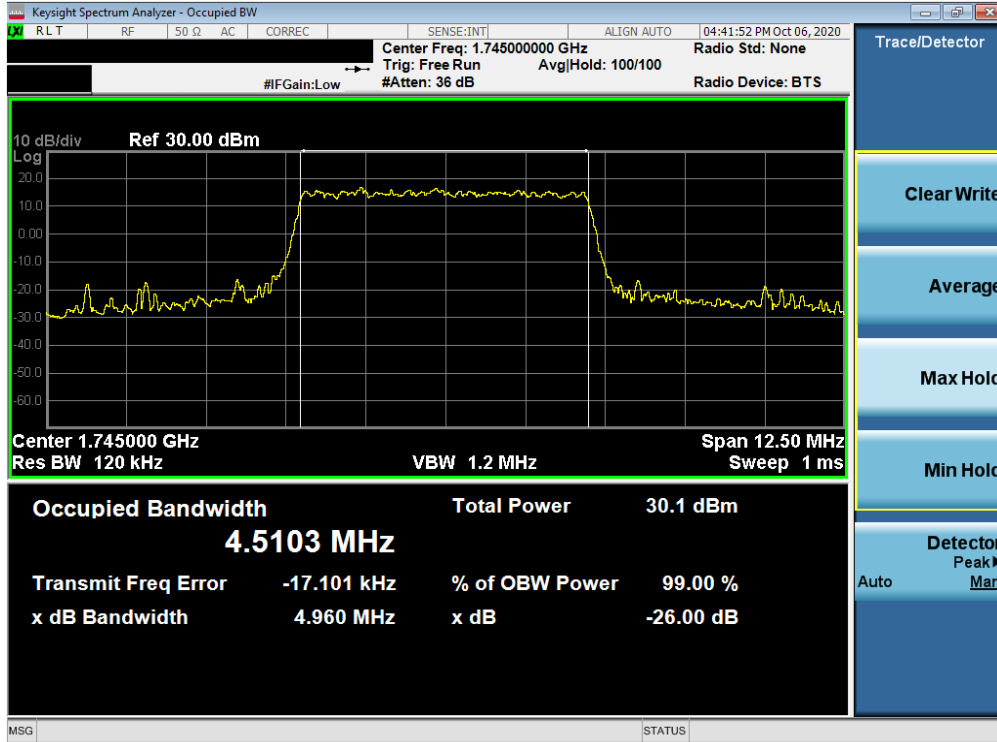


Plot 7-126. Occupied Bandwidth Plot (NR Band n66 - 5.0MHz CP-OFDM QPSK - Full RB ANTENNA A)

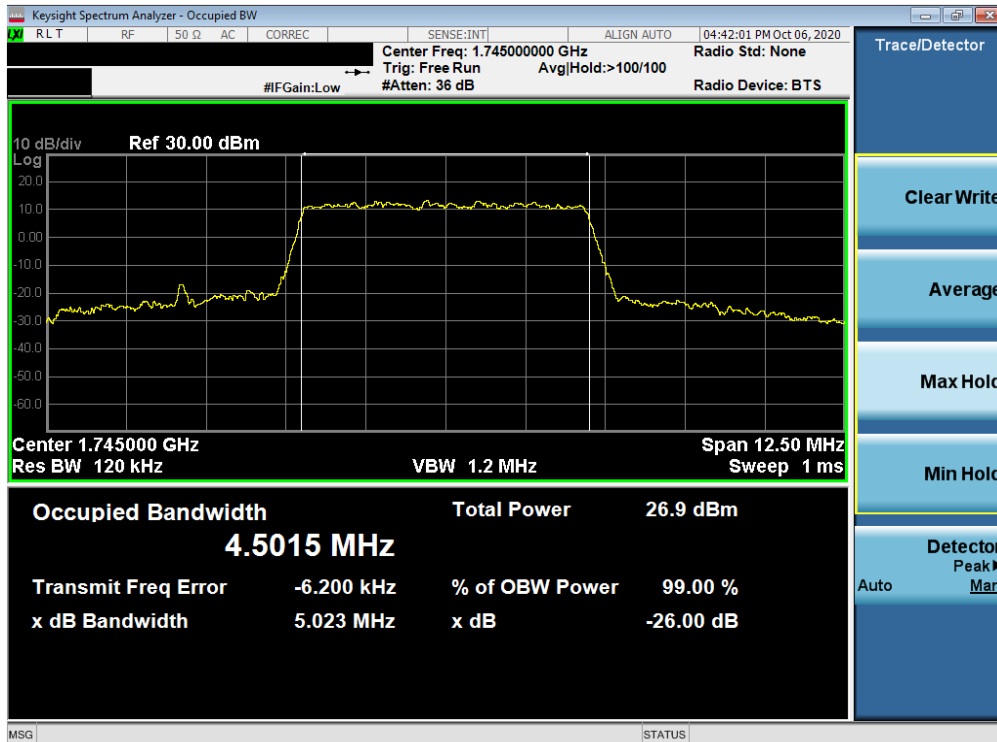


Plot 7-127. Occupied Bandwidth Plot (NR Band n66 - 5.0MHz CP-OFDM 16QAM - Full RB ANTENNA A)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 - 12/05/2020	EUT Type: Portable Handset		Page 79 of 332



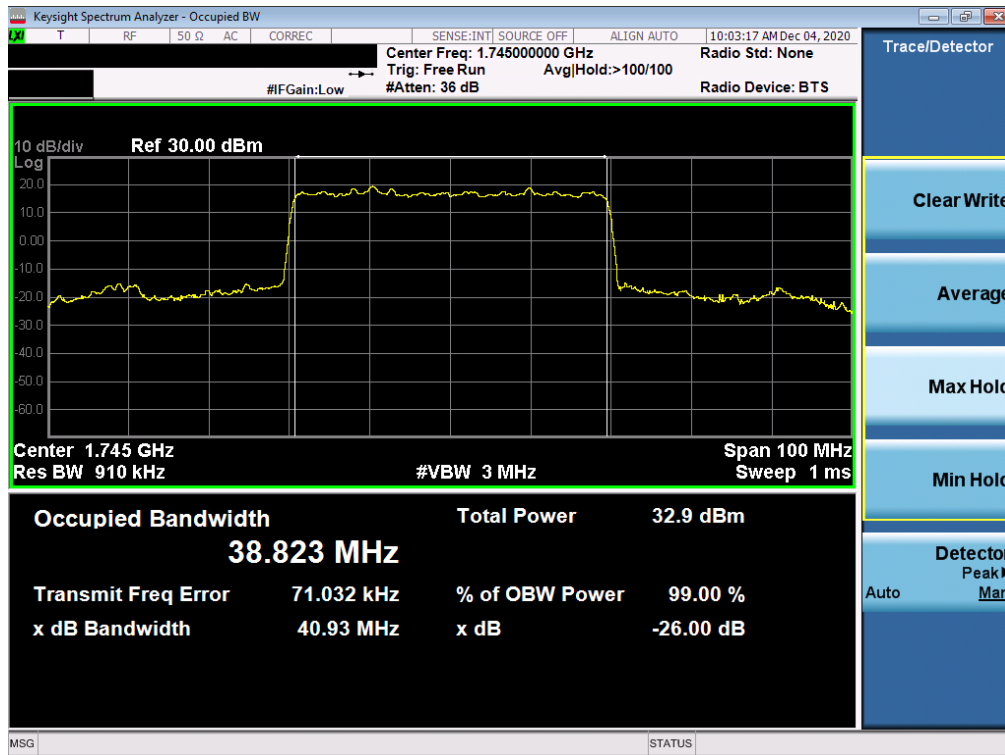
Plot 7-128. Occupied Bandwidth Plot (NR Band n66 - 5.0MHz CP-OFDM 64QAM - Full RB ANTENNA A)



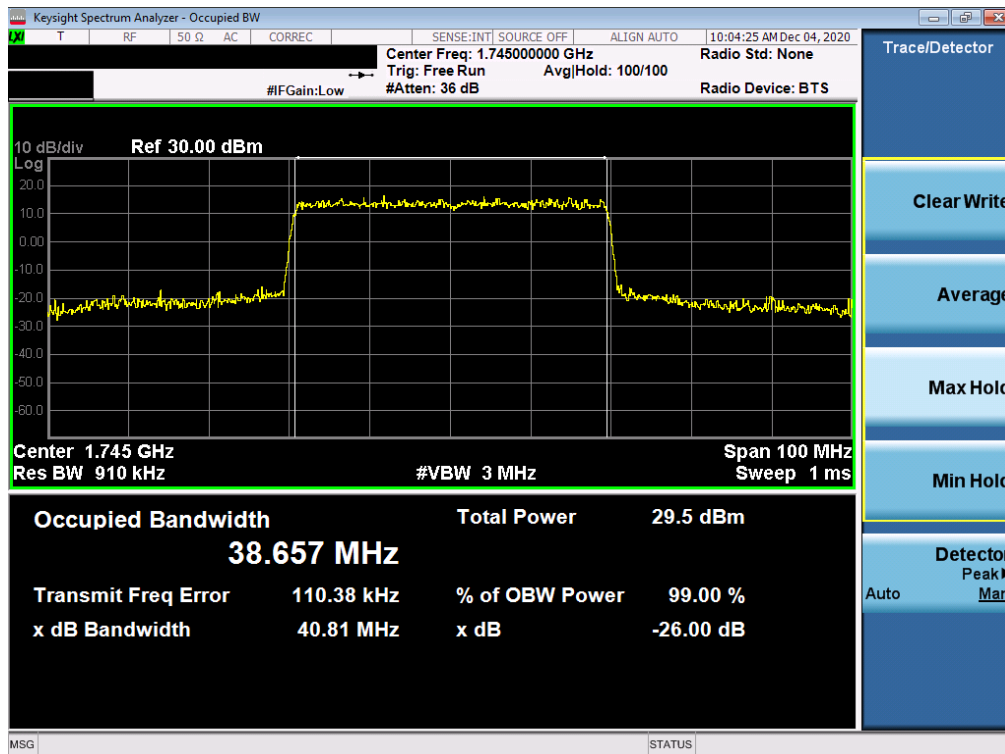
Plot 7-129. Occupied Bandwidth Plot (NR Band n66 - 5.0MHz CP-OFDM 256QAM - Full RB ANTENNA A)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 - 12/05/2020	EUT Type: Portable Handset		Page 80 of 332

NR Band n66 – Antenna I

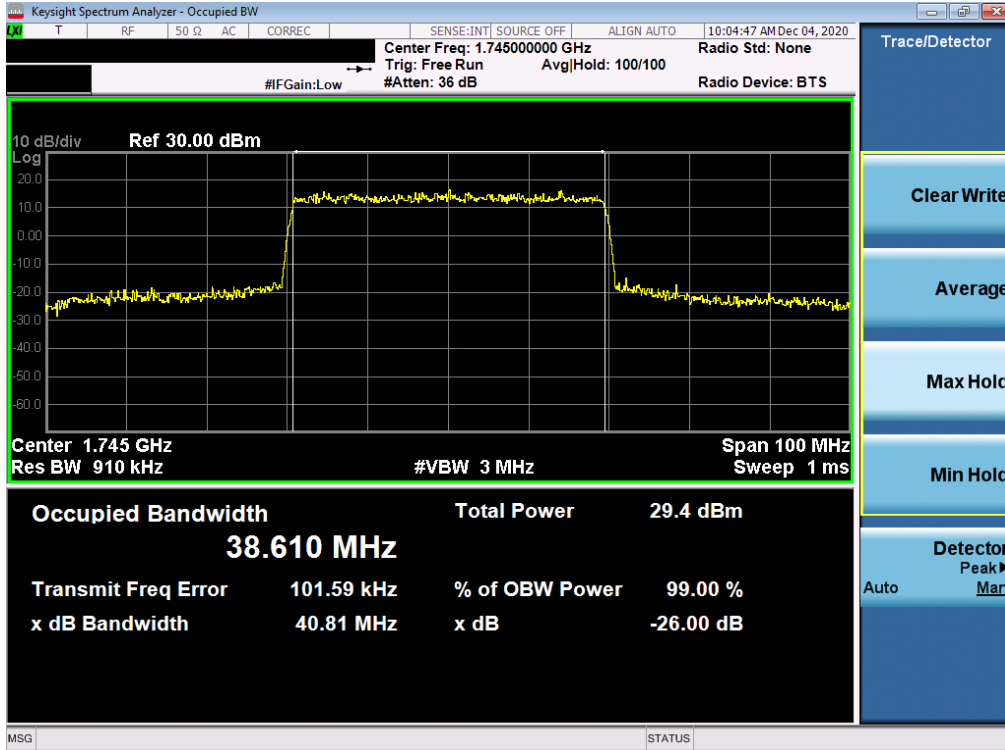


Plot 7-130. Occupied Bandwidth Plot (NR Band n66 - 40.0MHz DFT-s-OFDM BPSK - Full RB - ANTENNA I)

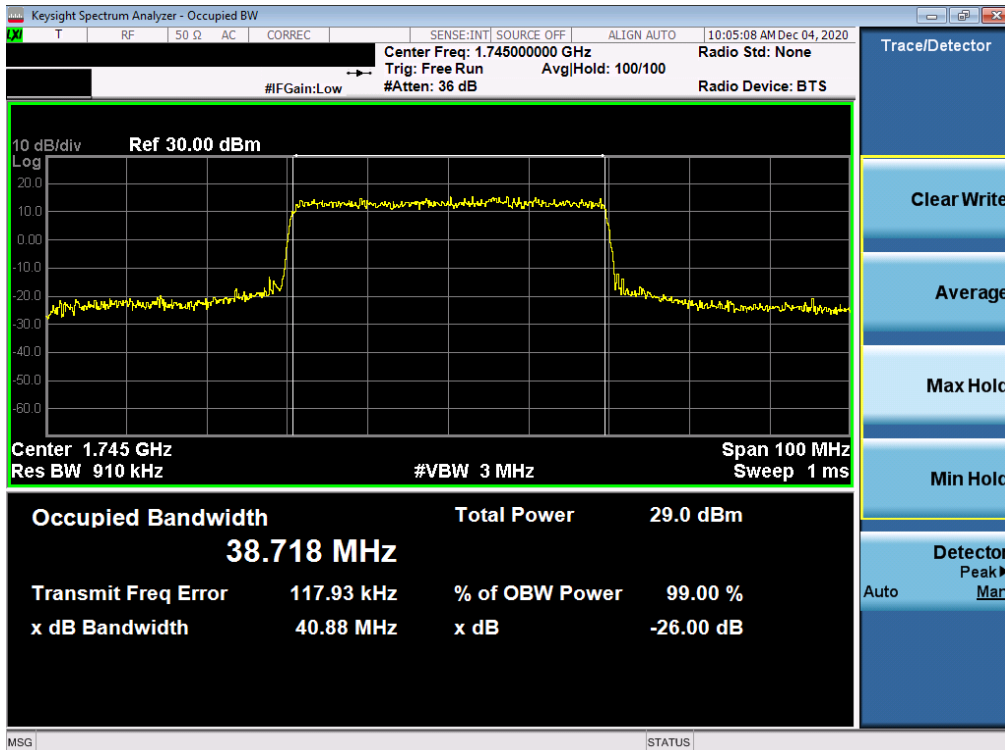


Plot 7-131. Occupied Bandwidth Plot (NR Band n66 - 40.0MHz CP-OFDM QPSK - Full RB - ANTENNA I)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 – 12/05/2020	EUT Type: Portable Handset		Page 81 of 332

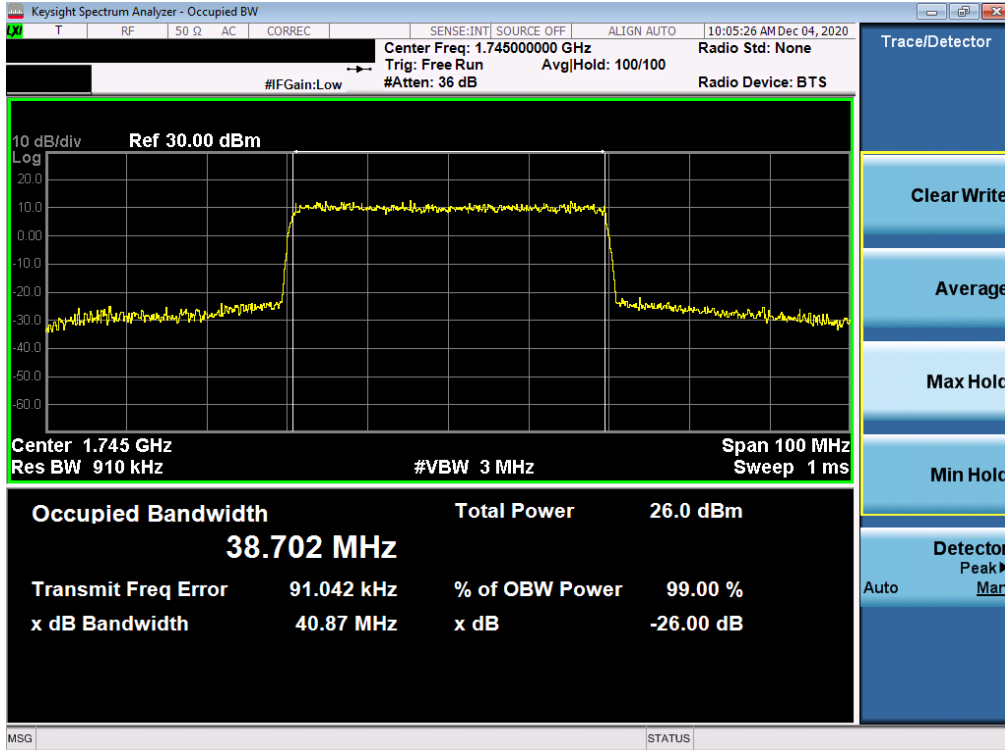


Plot 7-132. Occupied Bandwidth Plot (NR Band n66 - 40.0MHz CP-OFDM 16QAM - Full RB - ANTENNA I)

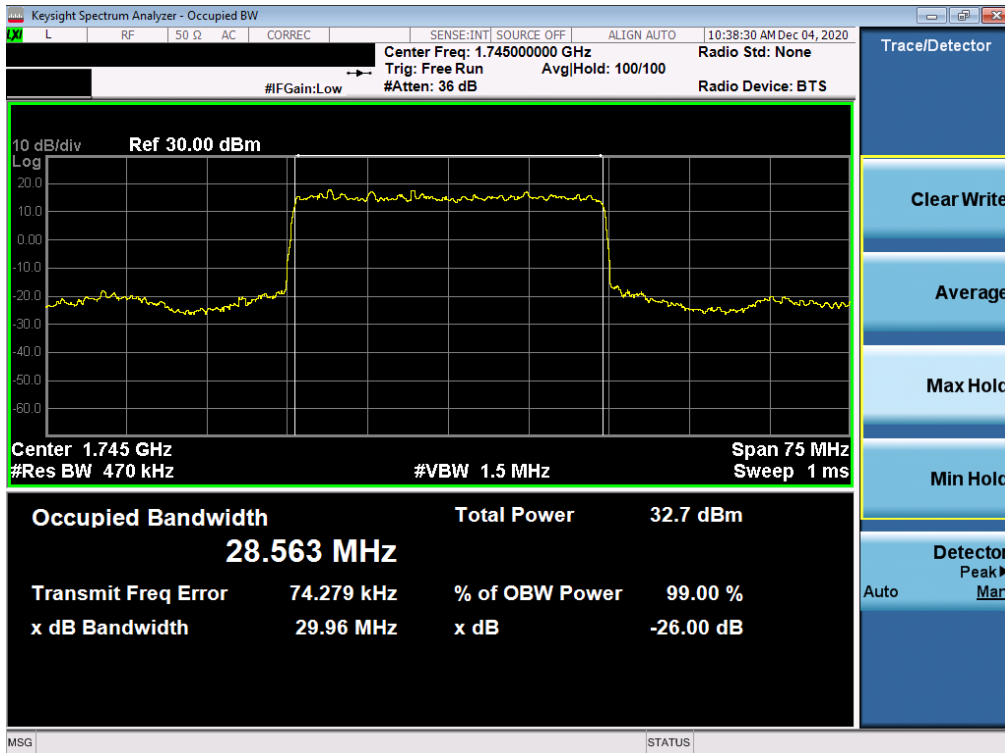


Plot 7-133. Occupied Bandwidth Plot (NR Band n66 - 40.0MHz CP-OFDM 64QAM - Full RB - ANTENNA I)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 – 12/05/2020	EUT Type: Portable Handset		Page 82 of 332

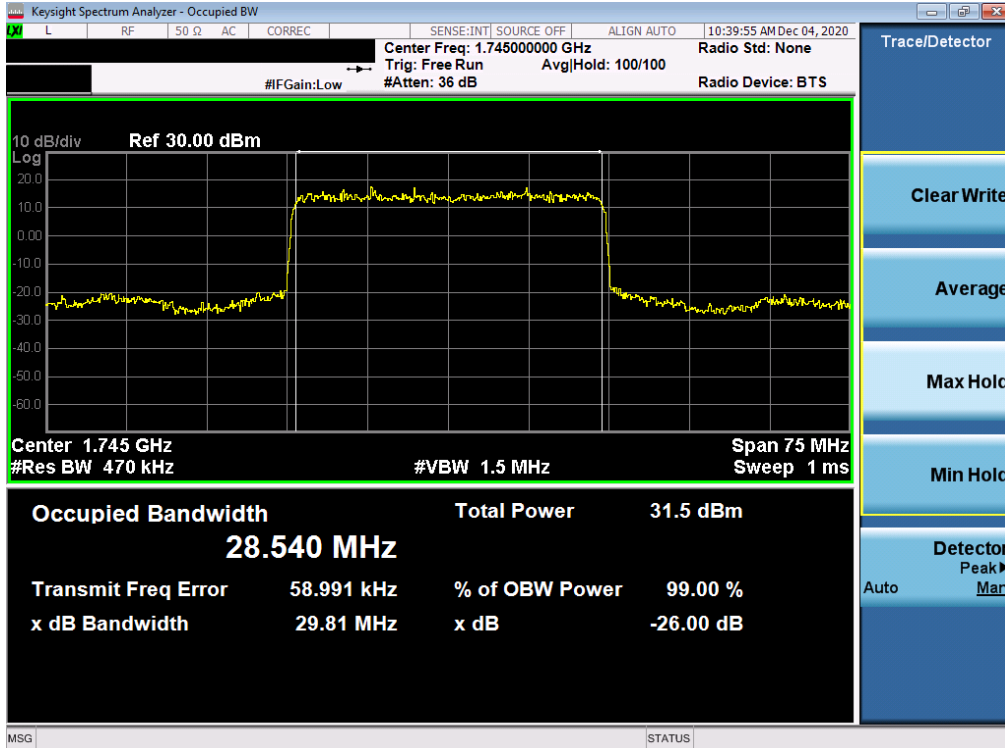


Plot 7-134. Occupied Bandwidth Plot (NR Band n66 - 40.0MHz CP-OFDM 256QAM - Full RB - ANTENNA I)

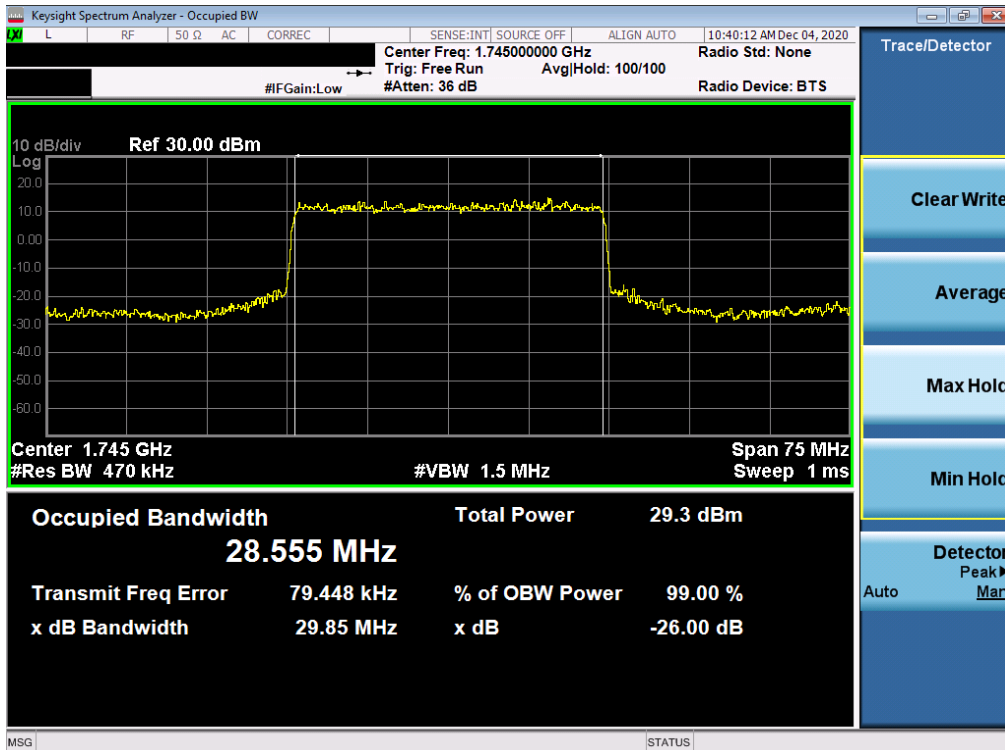


Plot 7-135. Occupied Bandwidth Plot (NR Band n66 - 30.0MHz DFT-s-OFDM BPSK - Full RB - ANTENNA I)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 - 12/05/2020	EUT Type: Portable Handset		Page 83 of 332

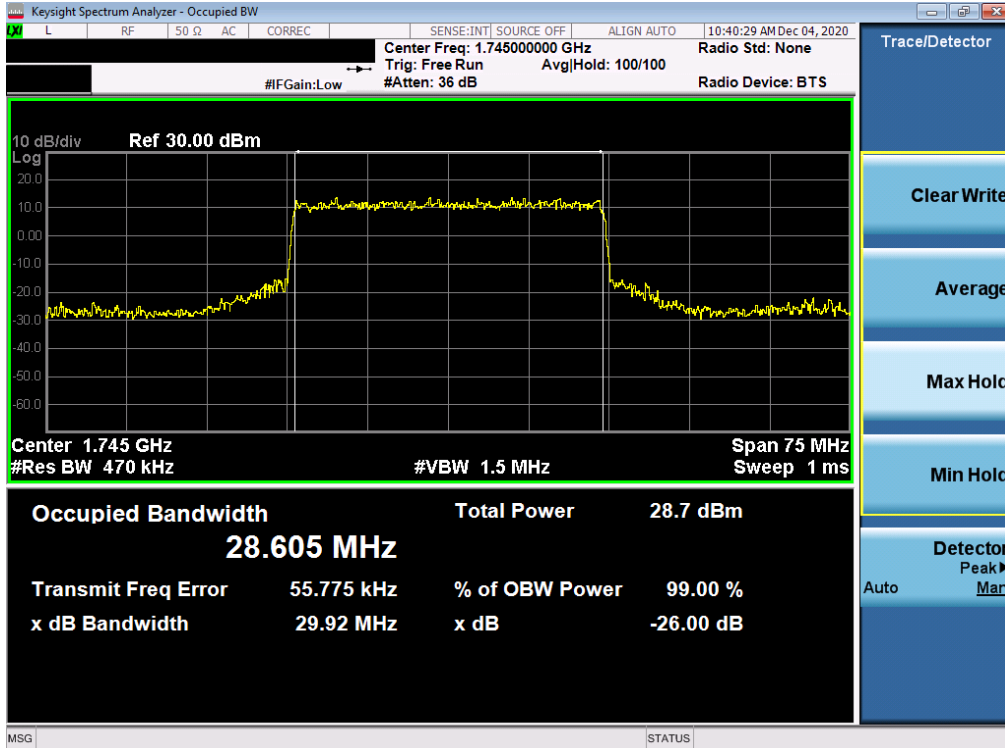


Plot 7-136. Occupied Bandwidth Plot (NR Band n66 - 30.0MHz CP-OFDM QPSK - Full RB - ANTENNA I)

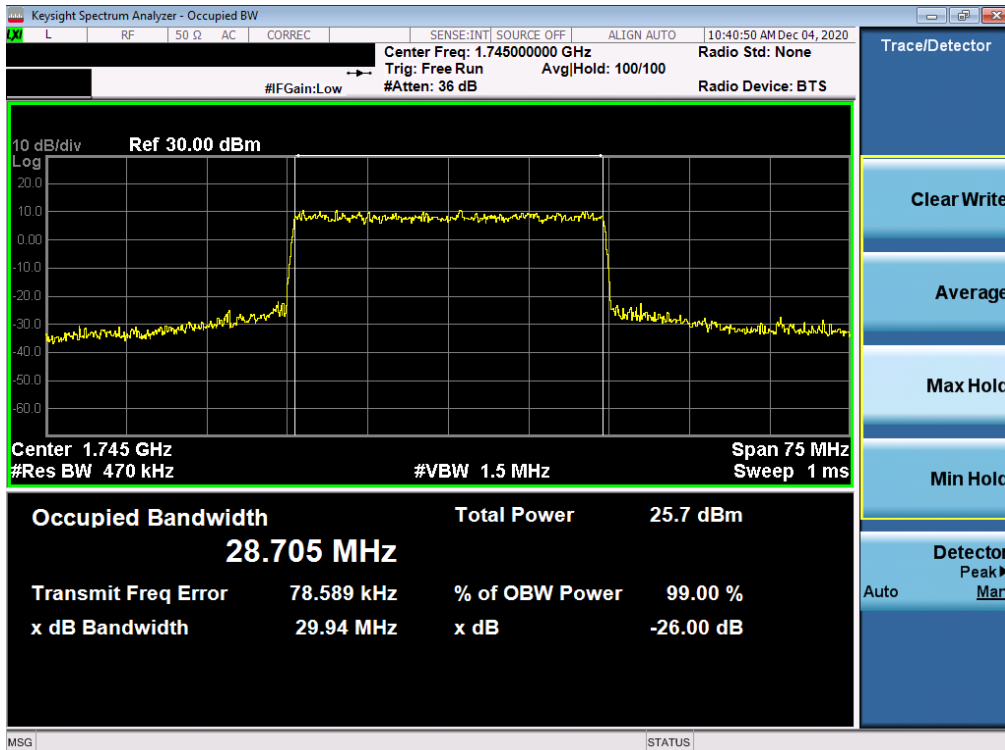


Plot 7-137. Occupied Bandwidth Plot (NR Band n66 - 30.0MHz CP-OFDM 16QAM - Full RB - ANTENNA I)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 – 12/05/2020	EUT Type: Portable Handset		Page 84 of 332

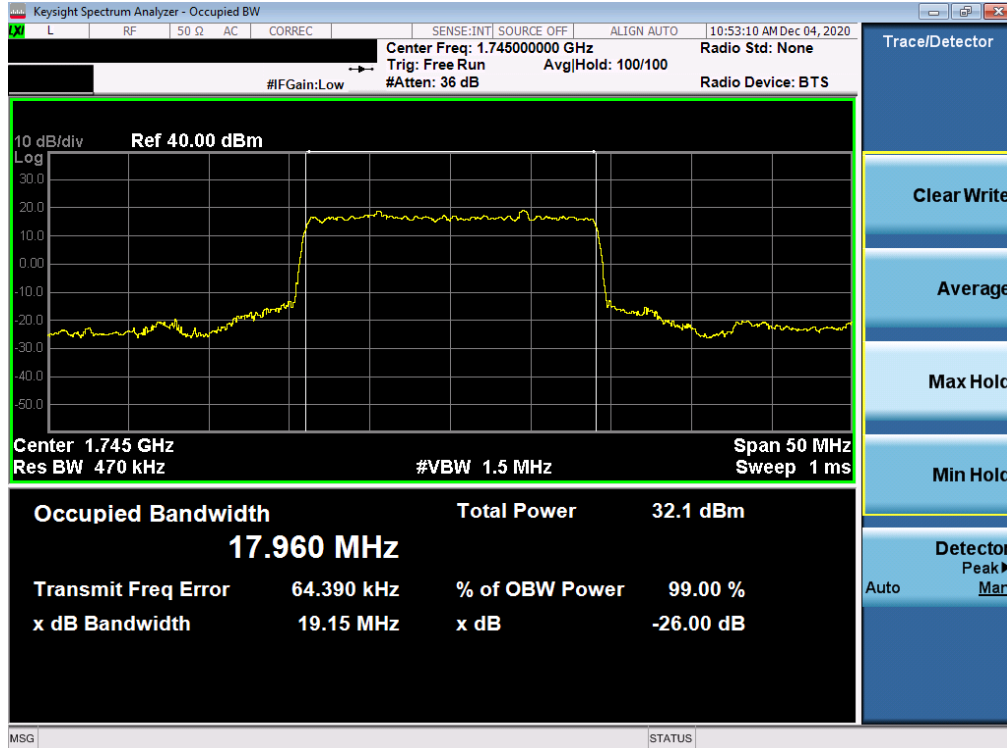


Plot 7-138. Occupied Bandwidth Plot (NR Band n66 - 30.0MHz CP-OFDM 64QAM - Full RB - ANTENNA I)

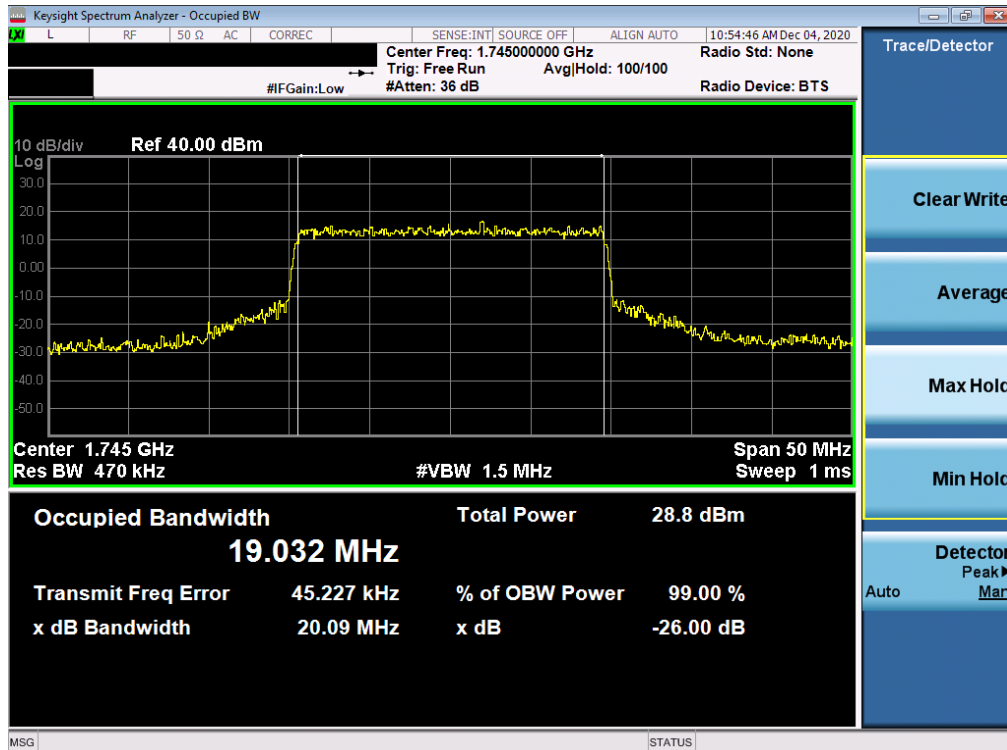


Plot 7-139. Occupied Bandwidth Plot (NR Band n66 - 30.0MHz CP-OFDM 256QAM - Full RB - ANTENNA I)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 – 12/05/2020	EUT Type: Portable Handset		Page 85 of 332

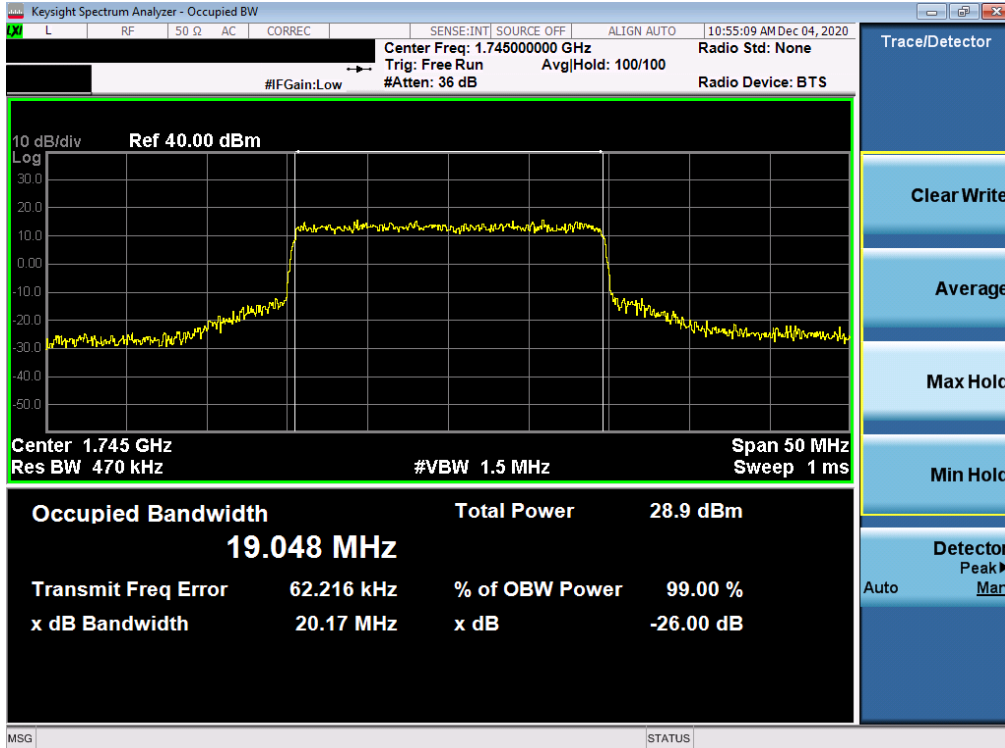


Plot 7-140. Occupied Bandwidth Plot (NR Band n66 - 20.0MHz DFT-s-OFDM BPSK - Full RB - ANTENNA I)

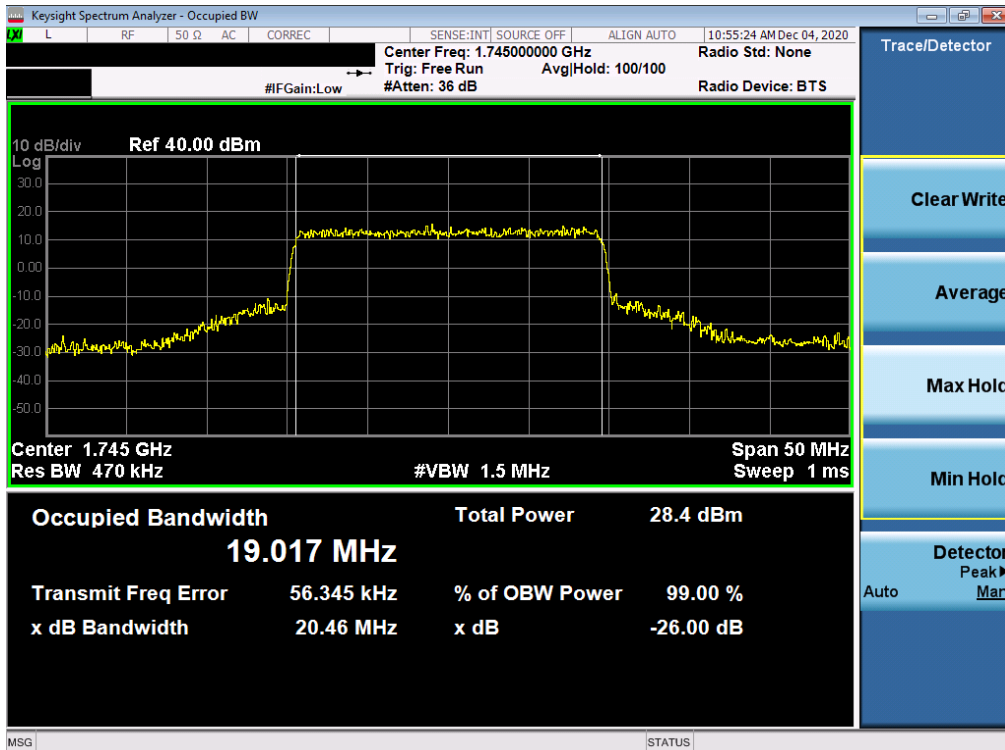


Plot 7-141. Occupied Bandwidth Plot (NR Band n66 - 20.0MHz CP-OFDM QPSK - Full RB - ANTENNA I)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 – 12/05/2020	EUT Type: Portable Handset		Page 86 of 332

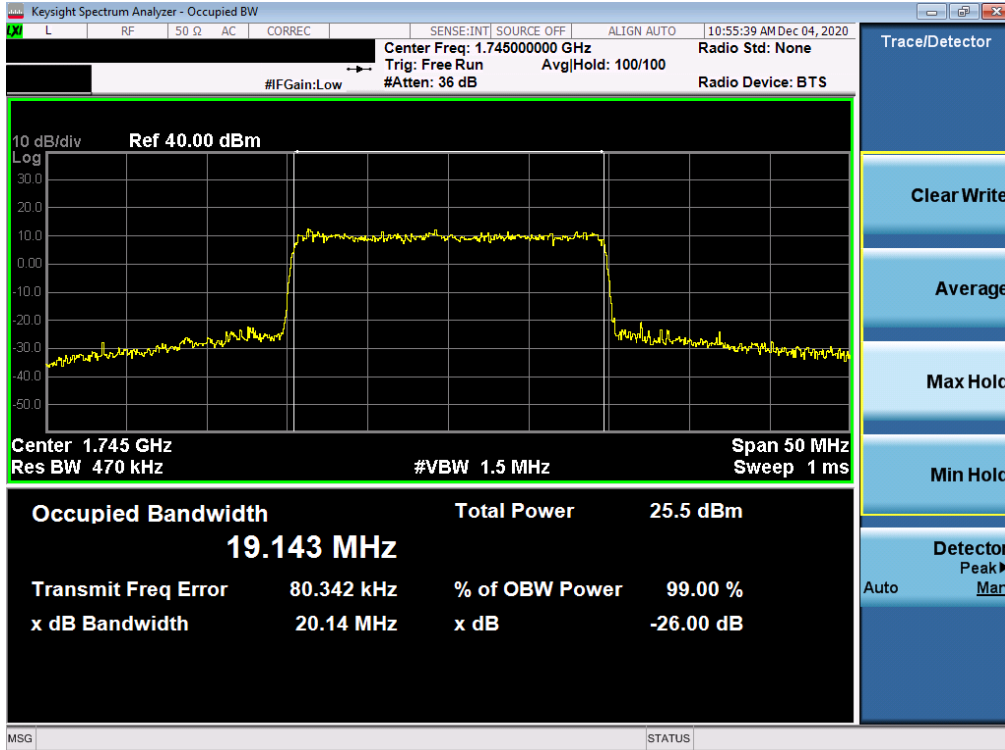


Plot 7-142. Occupied Bandwidth Plot (NR Band n66 - 20.0MHz CP-OFDM 16QAM - Full RB - ANTENNA I)

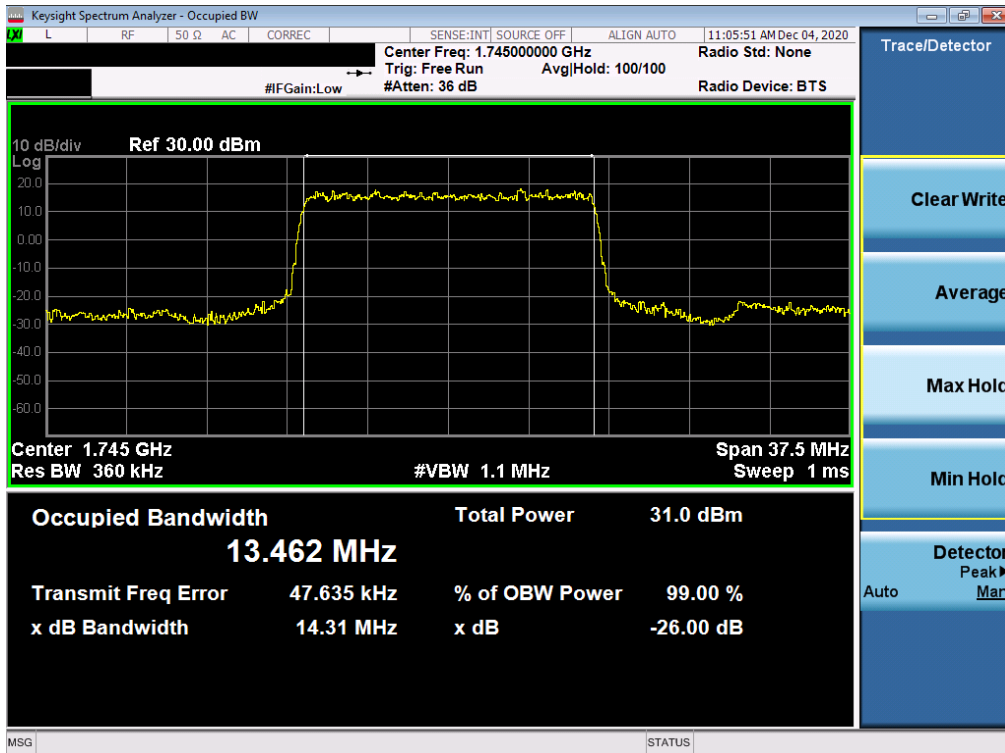


Plot 7-143. Occupied Bandwidth Plot (NR Band n66 - 20.0MHz CP-OFDM 64QAM - Full RB - ANTENNA I)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 – 12/05/2020	EUT Type: Portable Handset		Page 87 of 332

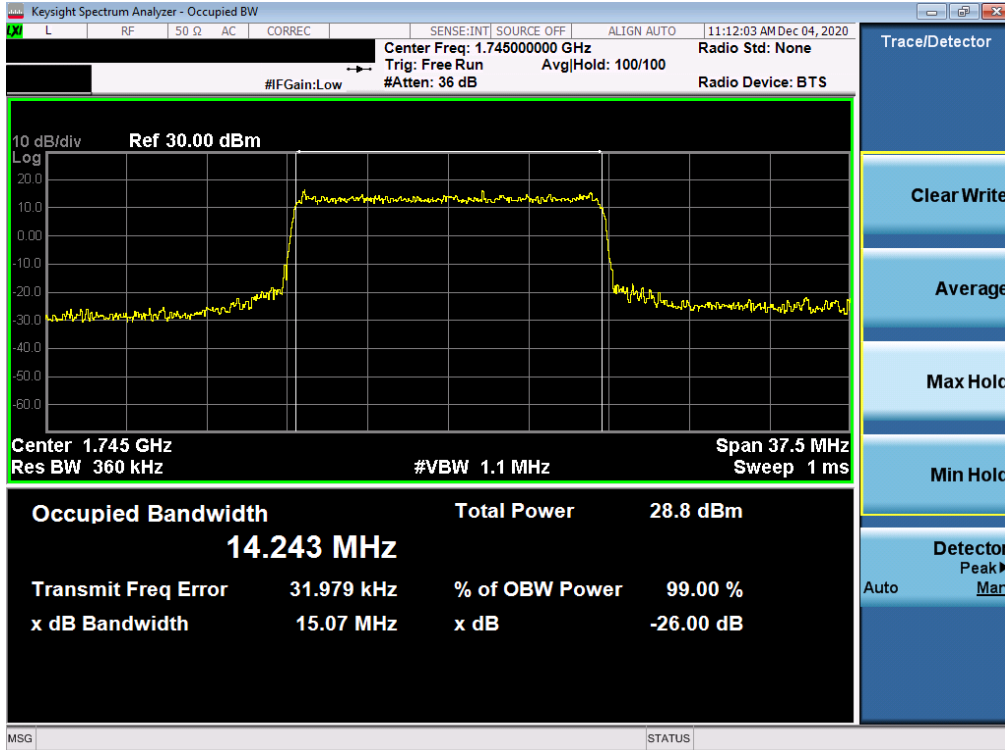


Plot 7-144. Occupied Bandwidth Plot (NR Band n66 - 20.0MHz CP-OFDM 256QAM - Full RB - ANTENNA I)

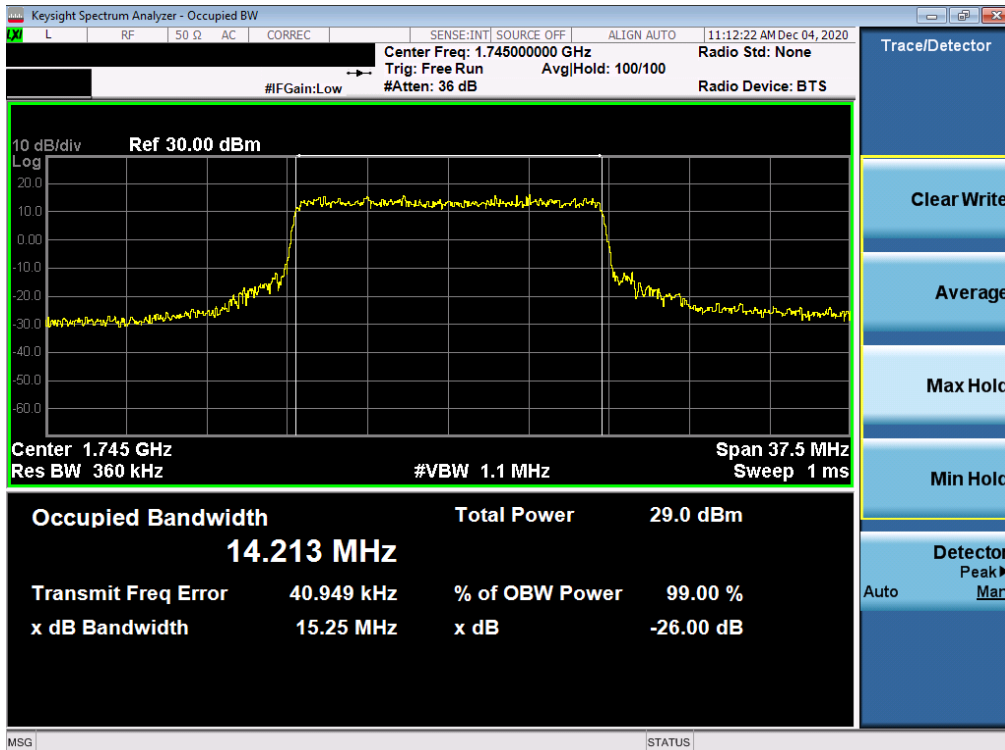


Plot 7-145. Occupied Bandwidth Plot (NR Band n66 - 15.0MHz DFT-s-OFDM BPSK - Full RB - ANTENNA I)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 - 12/05/2020	EUT Type: Portable Handset		Page 88 of 332

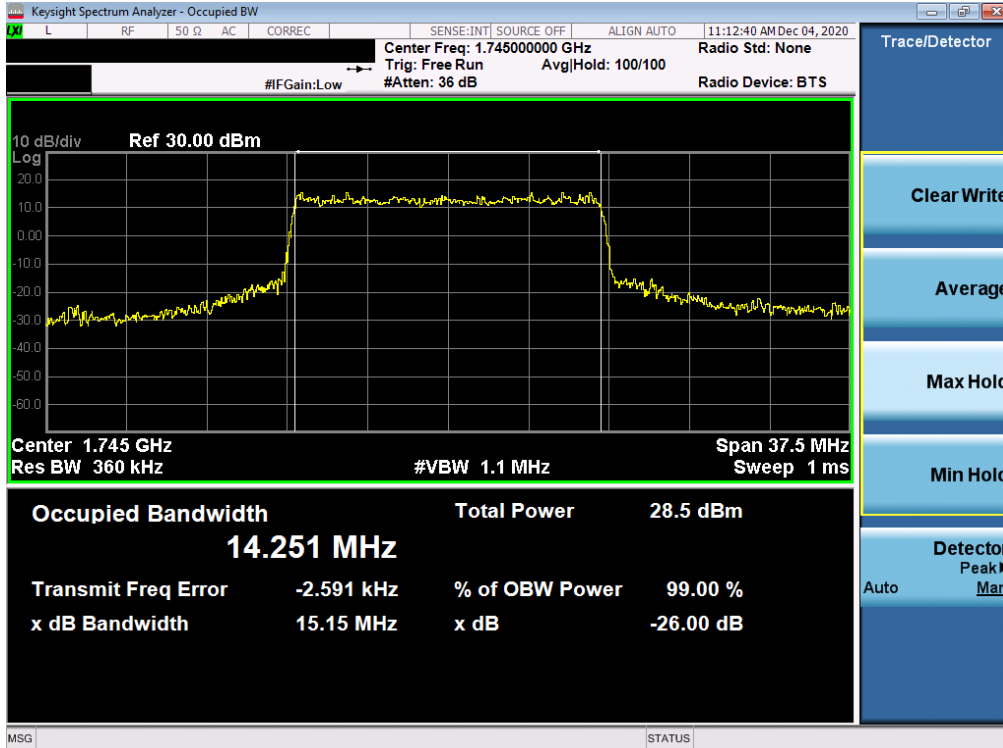


Plot 7-146. Occupied Bandwidth Plot (NR Band n66 - 15.0MHz CP-OFDM QPSK - Full RB - ANTENNA I)

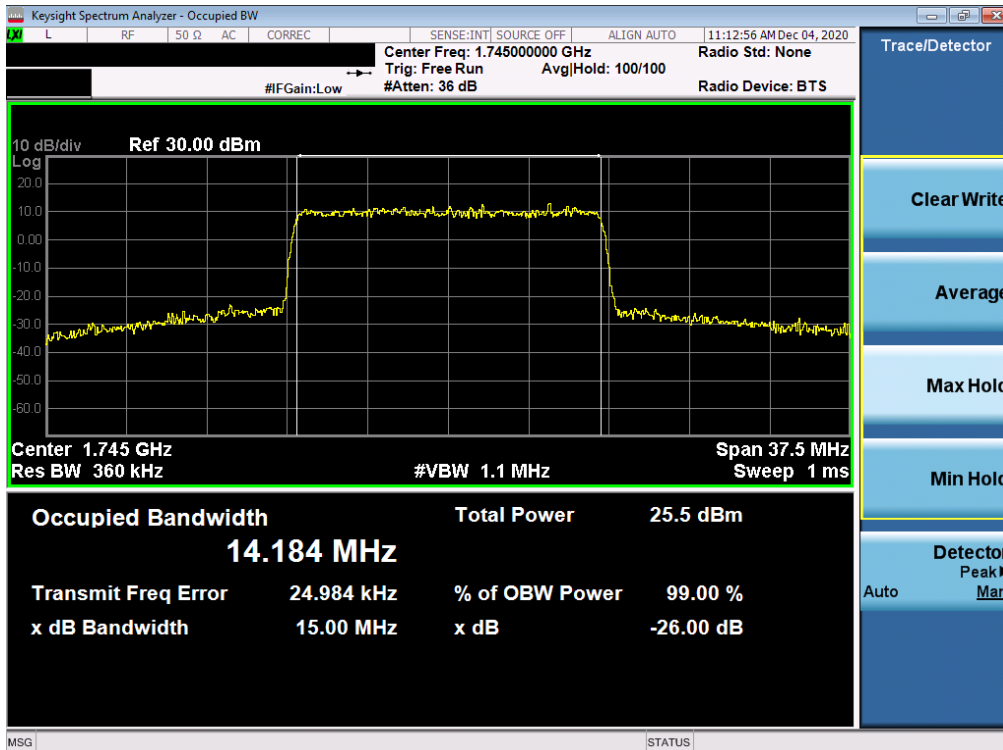


Plot 7-147. Occupied Bandwidth Plot (NR Band n66 - 15.0MHz CP-OFDM 16QAM - Full RB - ANTENNA I)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 - 12/05/2020	EUT Type: Portable Handset		Page 89 of 332

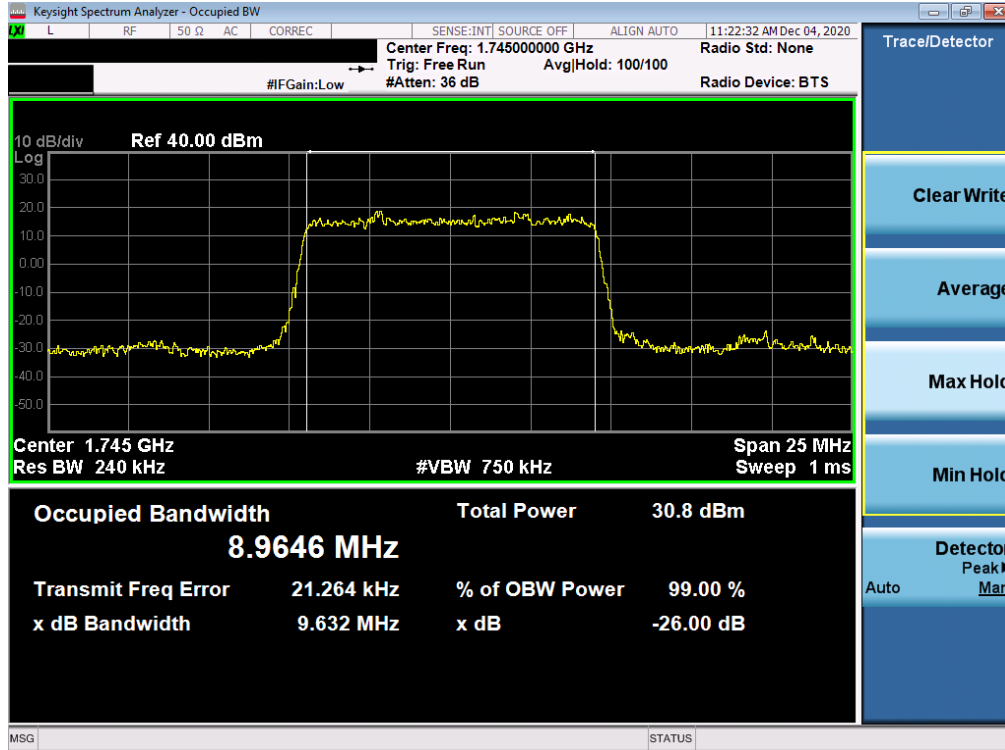


Plot 7-148. Occupied Bandwidth Plot (NR Band n66 - 15.0MHz CP-OFDM 64QAM - Full RB - ANTENNA I)

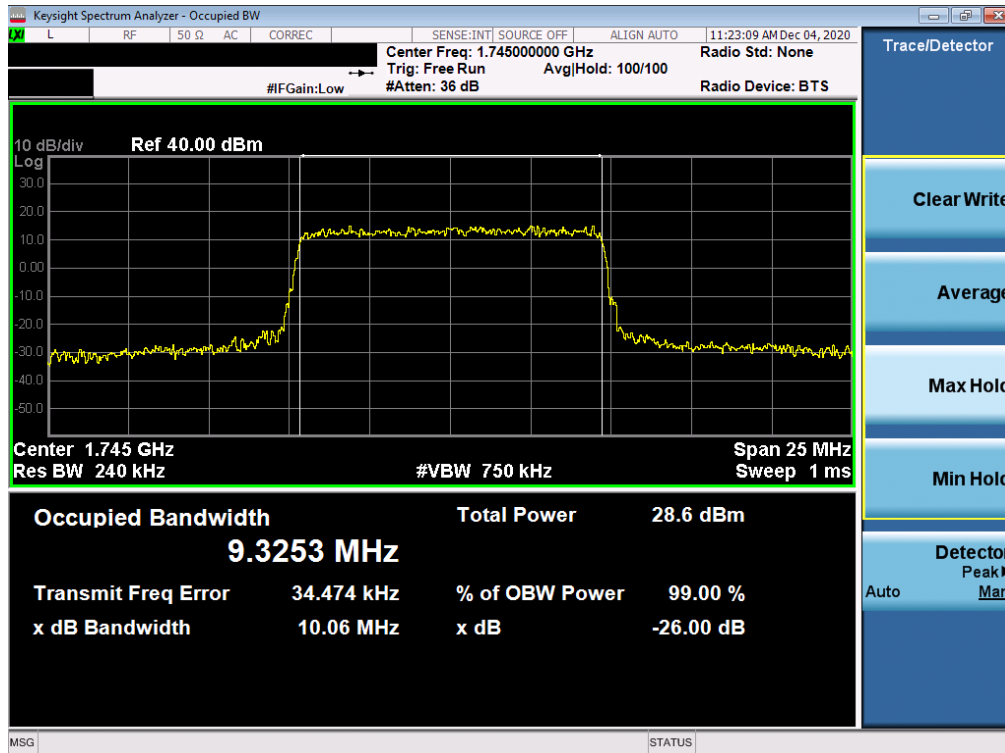


Plot 7-149. Occupied Bandwidth Plot (NR Band n66 - 15.0MHz CP-OFDM 256QAM - Full RB - ANTENNA I)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 - 12/05/2020	EUT Type: Portable Handset		Page 90 of 332

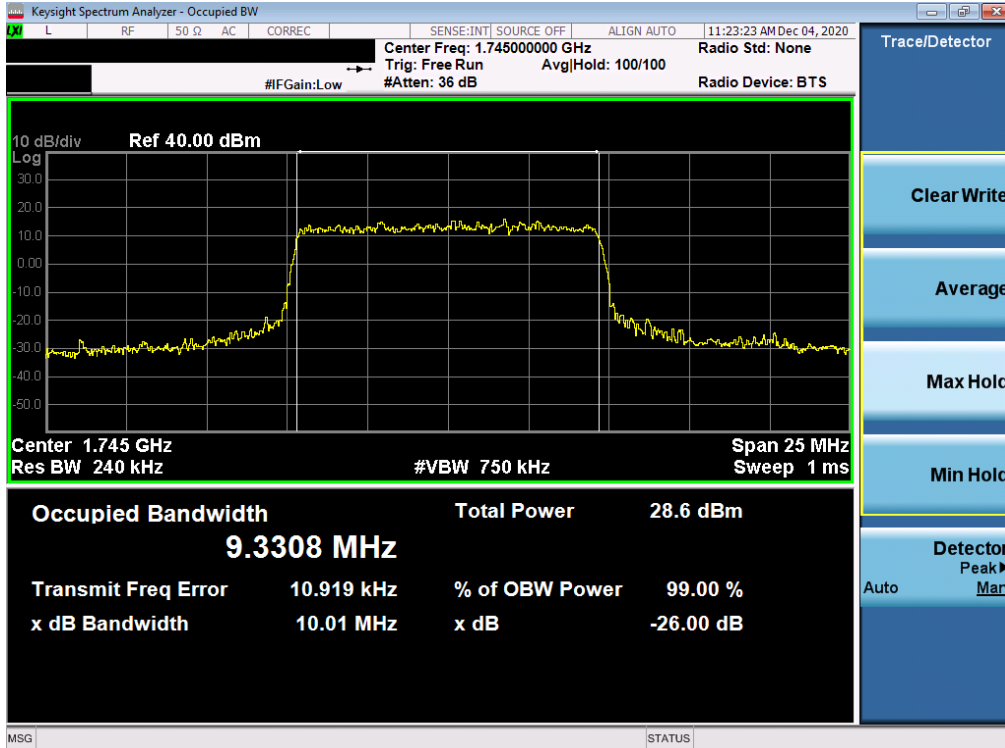


Plot 7-150. Occupied Bandwidth Plot (NR Band n66 - 10.0MHz DFT-s-OFDM BPSK - Full RB - ANTENNA I)

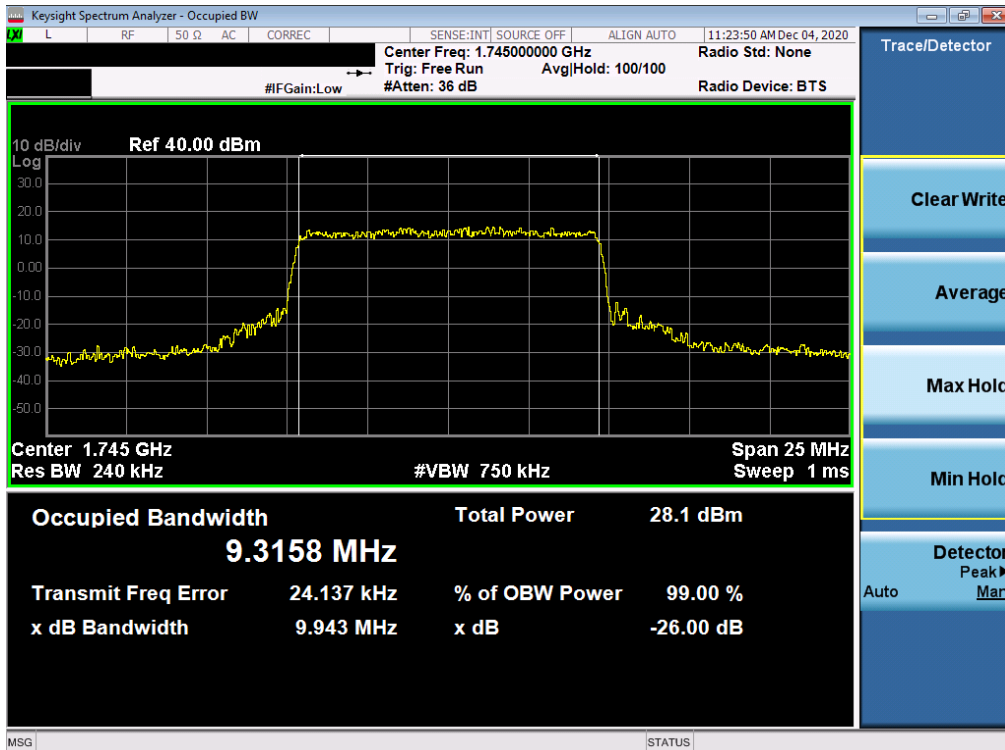


Plot 7-151. Occupied Bandwidth Plot (NR Band n66 - 10.0MHz CP-OFDM QPSK - Full RB - ANTENNA I)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 – 12/05/2020	EUT Type: Portable Handset		Page 91 of 332

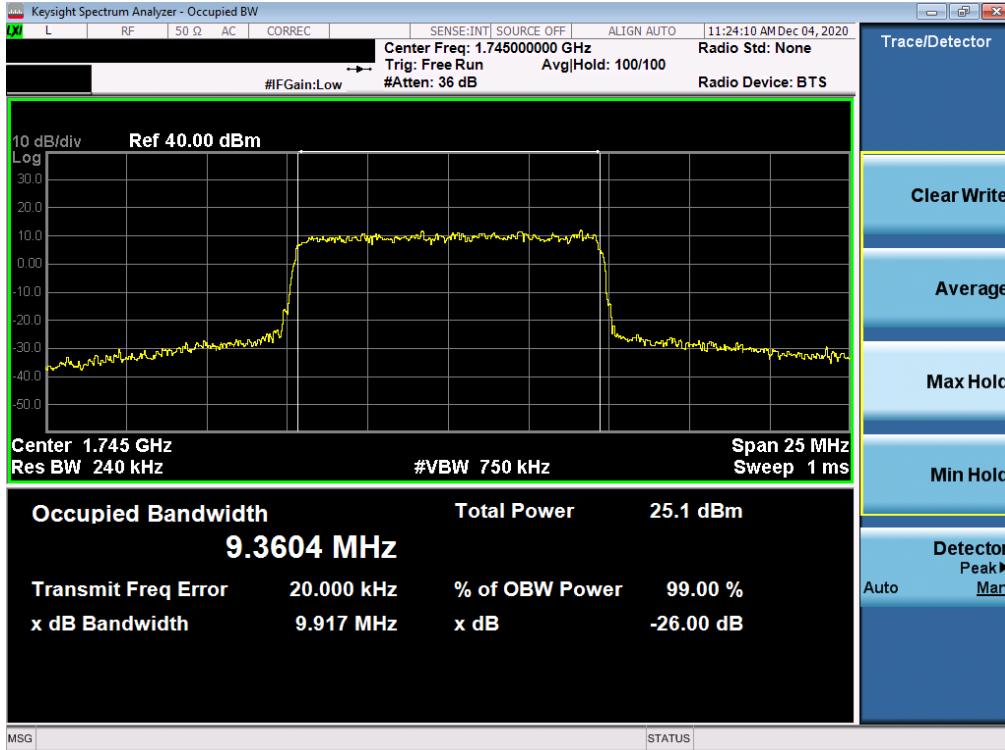


Plot 7-152. Occupied Bandwidth Plot (NR Band n66 - 10.0MHz CP-OFDM 16QAM - Full RB - ANTENNA I)

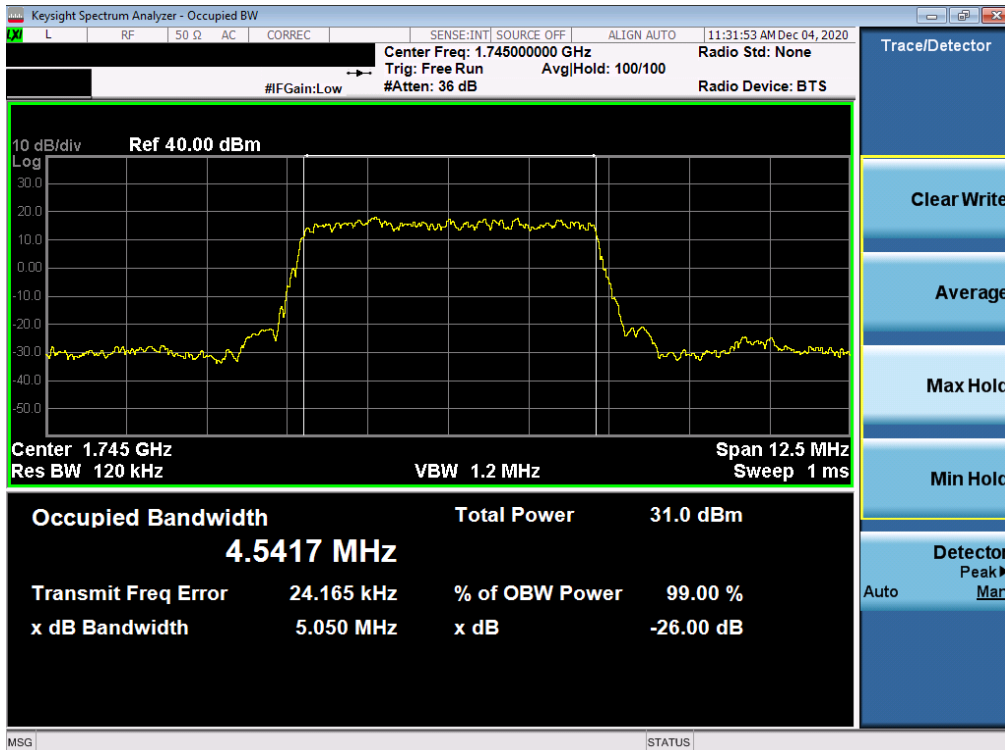


Plot 7-153. Occupied Bandwidth Plot (NR Band n66 - 10.0MHz CP-OFDM 64QAM - Full RB - ANTENNA I)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 – 12/05/2020	EUT Type: Portable Handset		Page 92 of 332

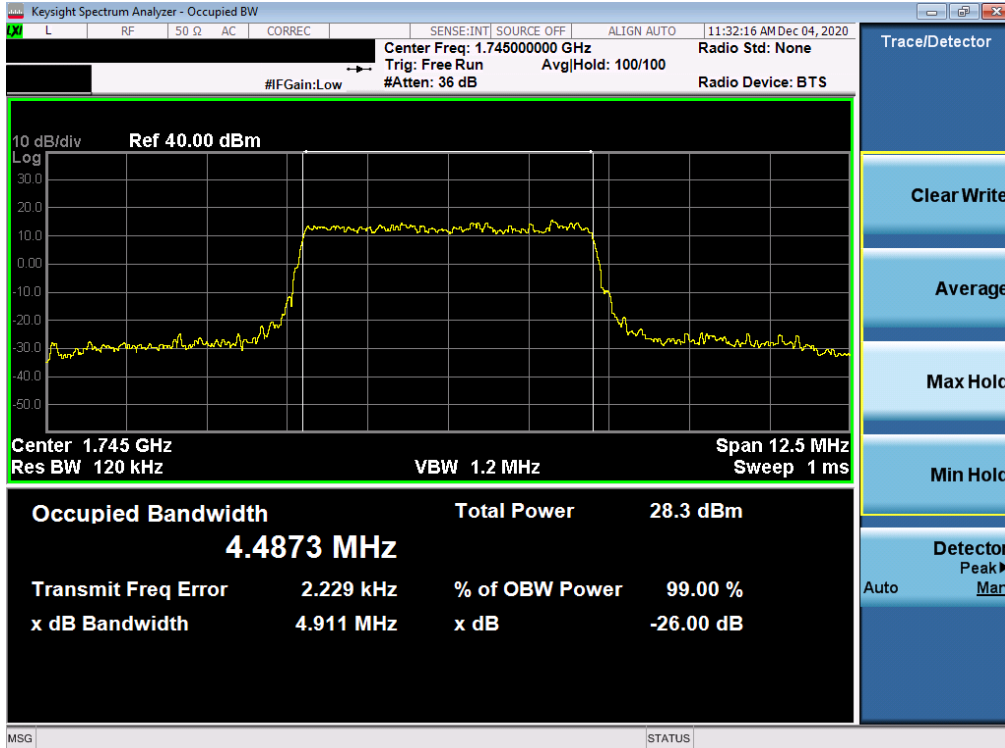


Plot 7-154. Occupied Bandwidth Plot (NR Band n66 - 10.0MHz CP-OFDM 256QAM - Full RB - ANTENNA I)

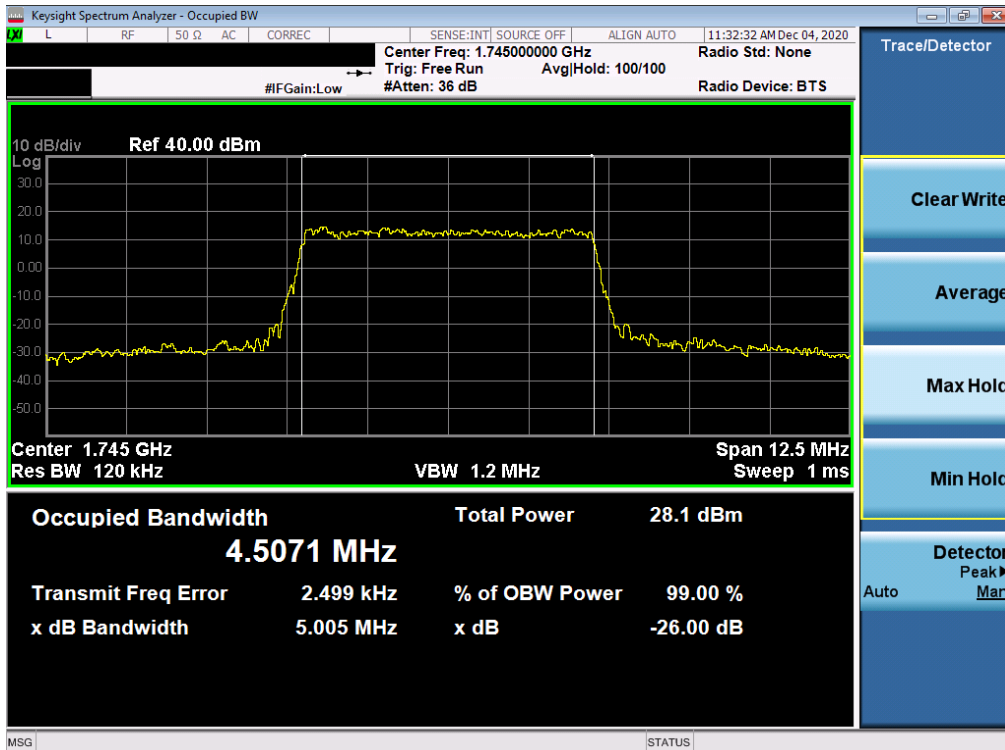


Plot 7-155. Occupied Bandwidth Plot (NR Band n66 - 5.0MHz DFT-s-OFDM BPSK - Full RB - ANTENNA I)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 - 12/05/2020	EUT Type: Portable Handset		Page 93 of 332

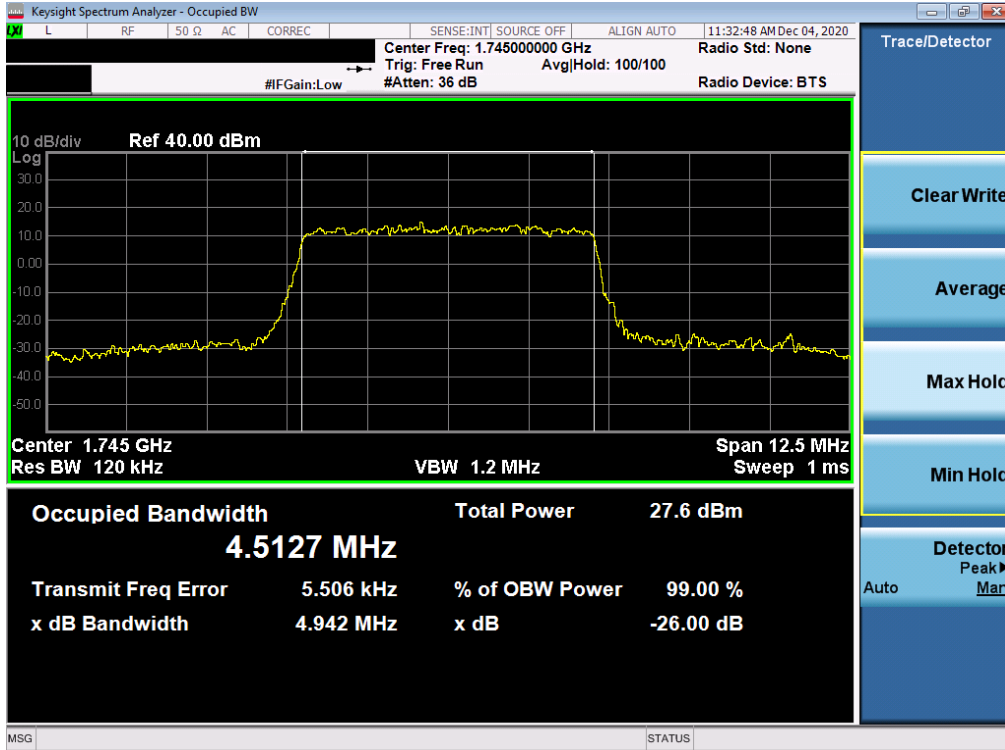


Plot 7-156. Occupied Bandwidth Plot (NR Band n66 - 5.0MHz CP-OFDM QPSK - Full RB - ANTENNA I)

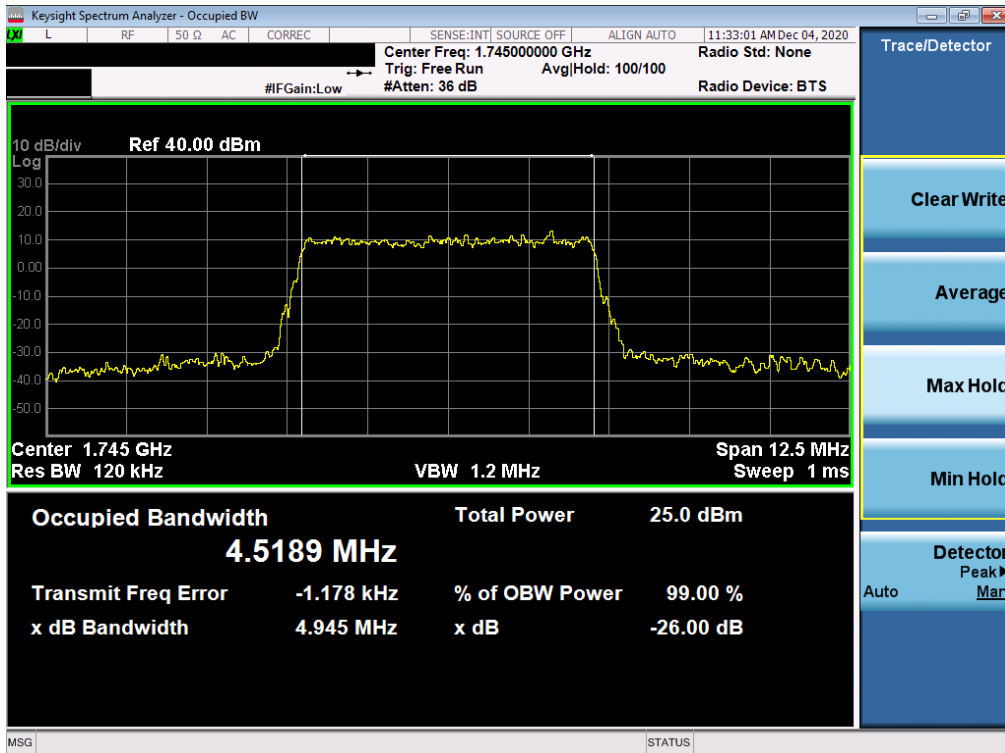


Plot 7-157. Occupied Bandwidth Plot (NR Band n66 - 5.0MHz CP-OFDM 16QAM - Full RB - ANTENNA I)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 - 12/05/2020	EUT Type: Portable Handset		Page 94 of 332



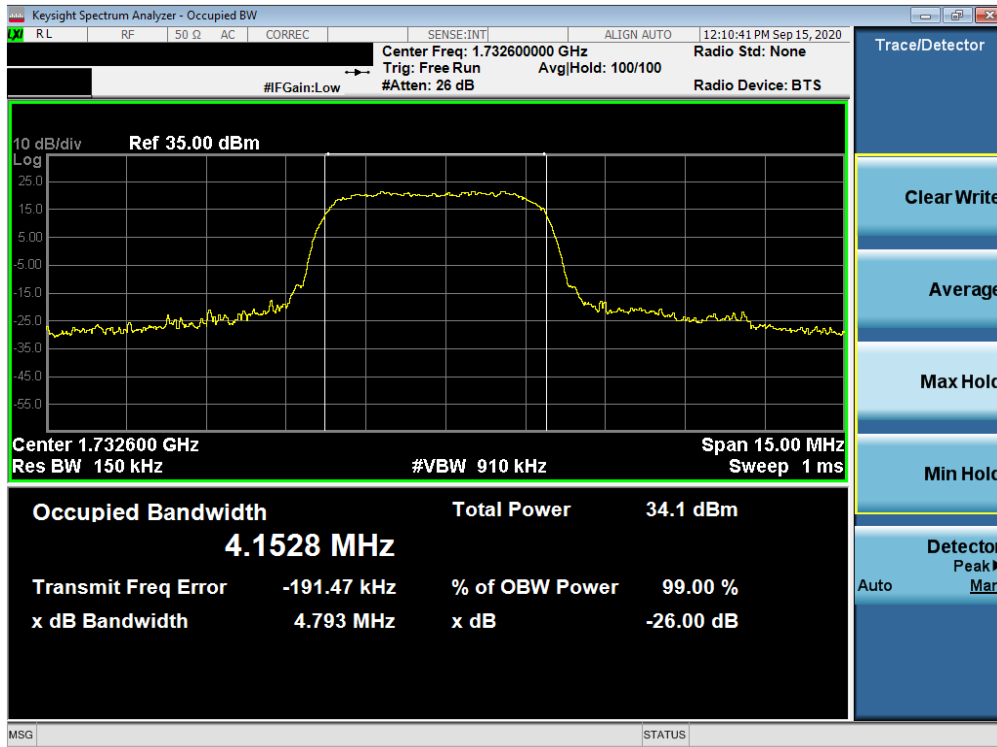
Plot 7-158. Occupied Bandwidth Plot (NR Band n66 - 5.0MHz CP-OFDM 64QAM - Full RB - ANTENNA I)



Plot 7-159. Occupied Bandwidth Plot (NR Band n66 - 5.0MHz CP-OFDM 256QAM - Full RB - ANTENNA I)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 – 12/05/2020	EUT Type: Portable Handset		Page 95 of 332

WCDMA AWS



Plot 7-160. Occupied Bandwidth Plot (WCDMA, Ch. 1413)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 – 12/05/2020	EUT Type: Portable Handset		Page 96 of 332

7.3 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

KDB 971168 D01 v03r01 – Section 6.0

Test Settings

1. Start frequency was set to 30MHz and stop frequency was set to 18GHz (separated into at least two plots per channel)
2. RBW \geq 100kHz
3. VBW \geq 3 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.

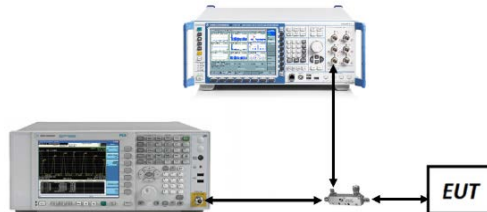




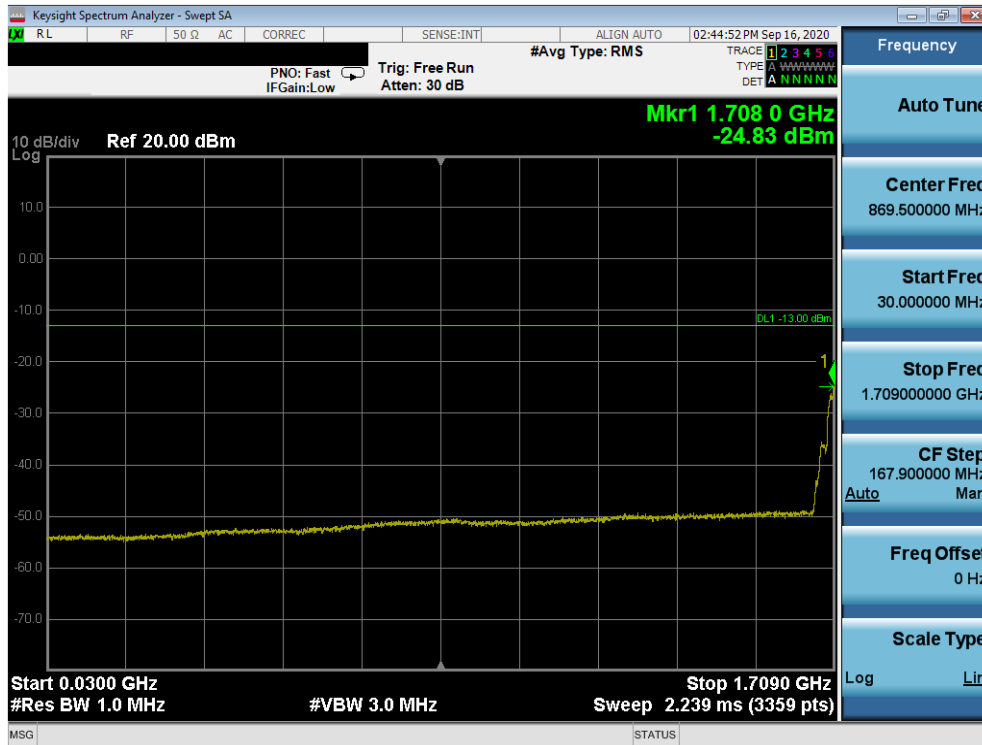
Figure 7-2. Test Instrument & Measurement Setup

Test Notes

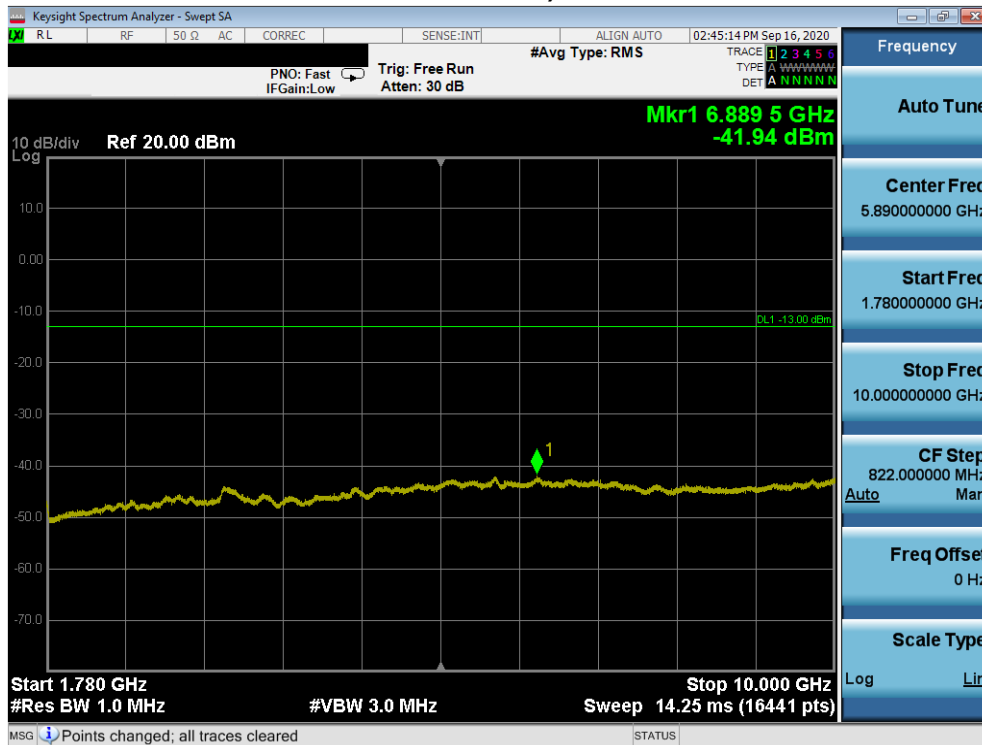
1. Per Part 27 and RSS-139, compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth 100 kHz or greater for measurements below 1GHz. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emission are attenuated at least 26 dB below the transmitter power.
2. For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

FCC ID: A3LSMG996U		PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 – 12/05/2020	EUT Type: Portable Handset	Page 97 of 332	

LTE Band 66/4

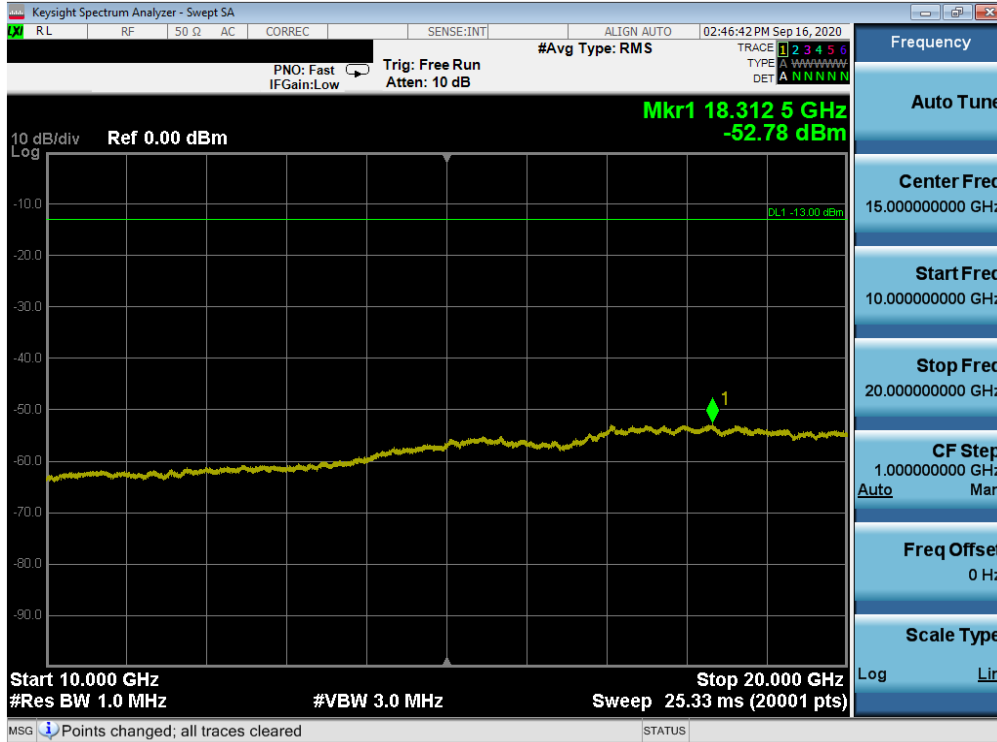


Plot 7-161. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

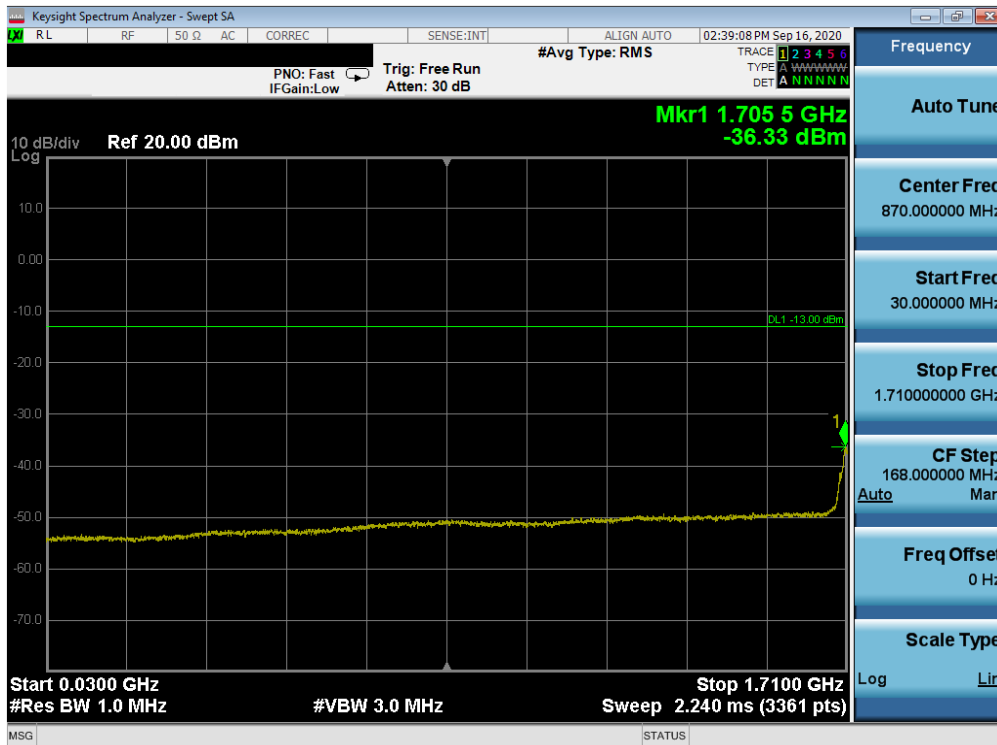


Plot 7-162. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 – 12/05/2020	EUT Type: Portable Handset		Page 98 of 332



Plot 7-163. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

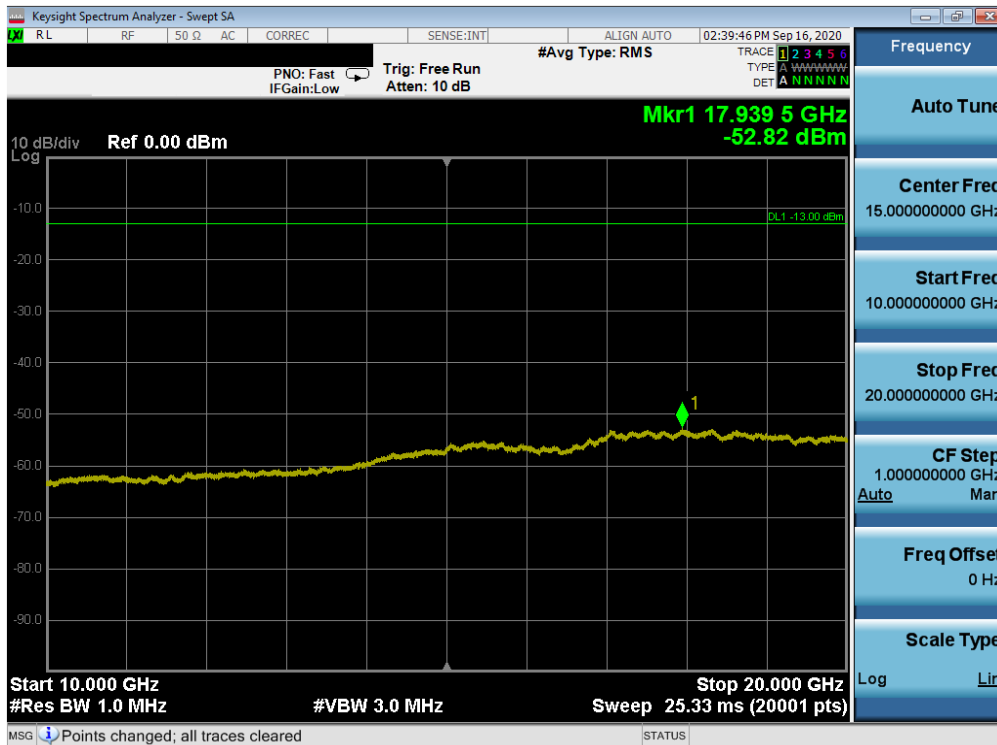


Plot 7-164. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 – 12/05/2020	EUT Type: Portable Handset		Page 99 of 332

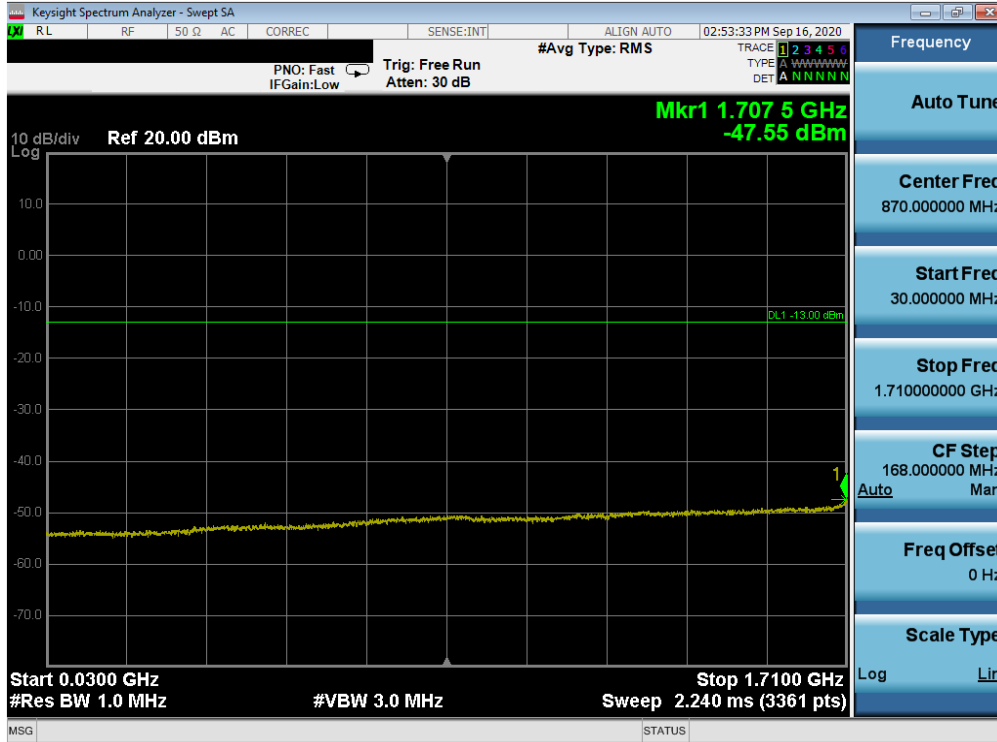


Plot 7-165. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

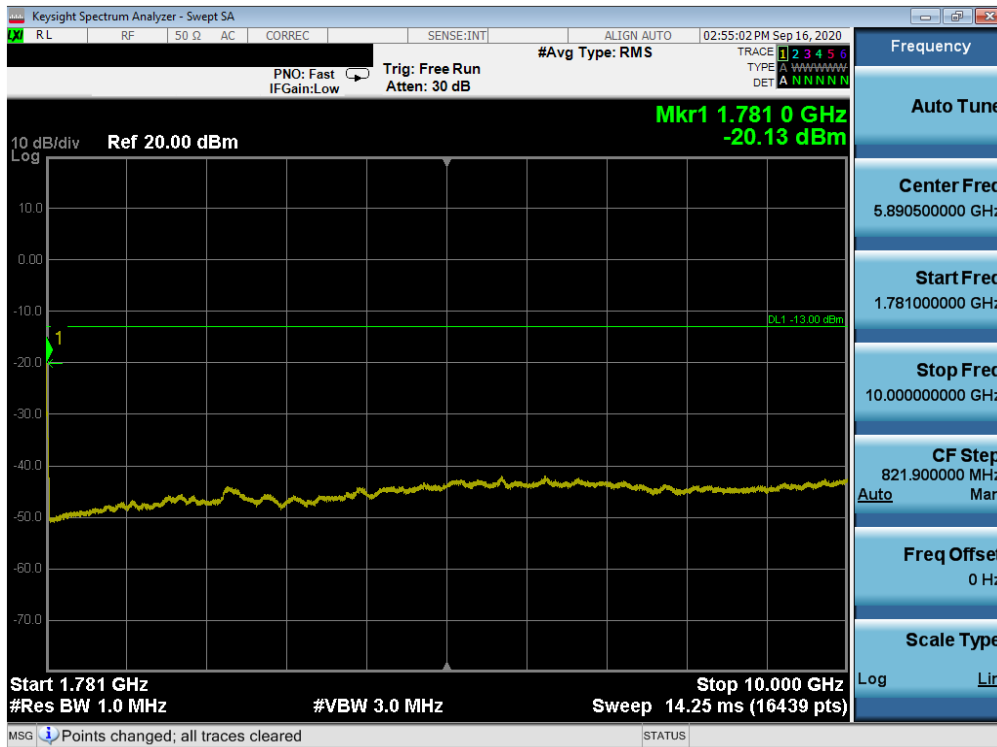


Plot 7-166. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 – 12/05/2020	EUT Type: Portable Handset		Page 100 of 332

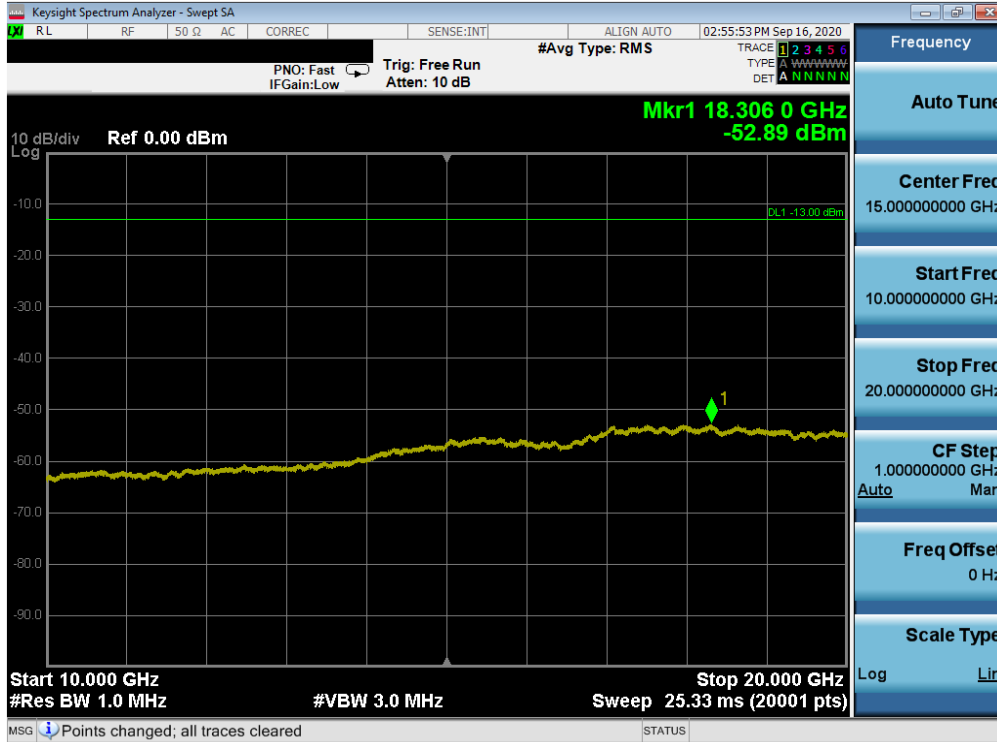


Plot 7-167. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel)






Plot 7-168. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 – 12/05/2020	EUT Type: Portable Handset		Page 101 of 332



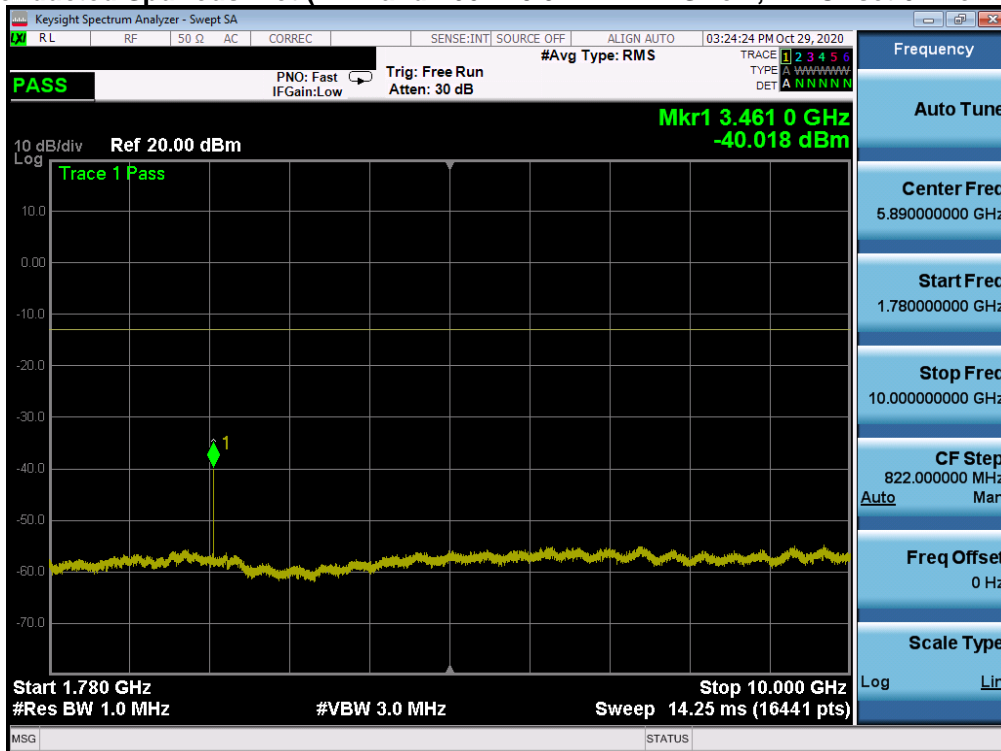
Plot 7-169. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: A3LSMG996U	 PCTEST Proud to be part of 	PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 – 12/05/2020	EUT Type: Portable Handset		Page 102 of 332

NR Band n66

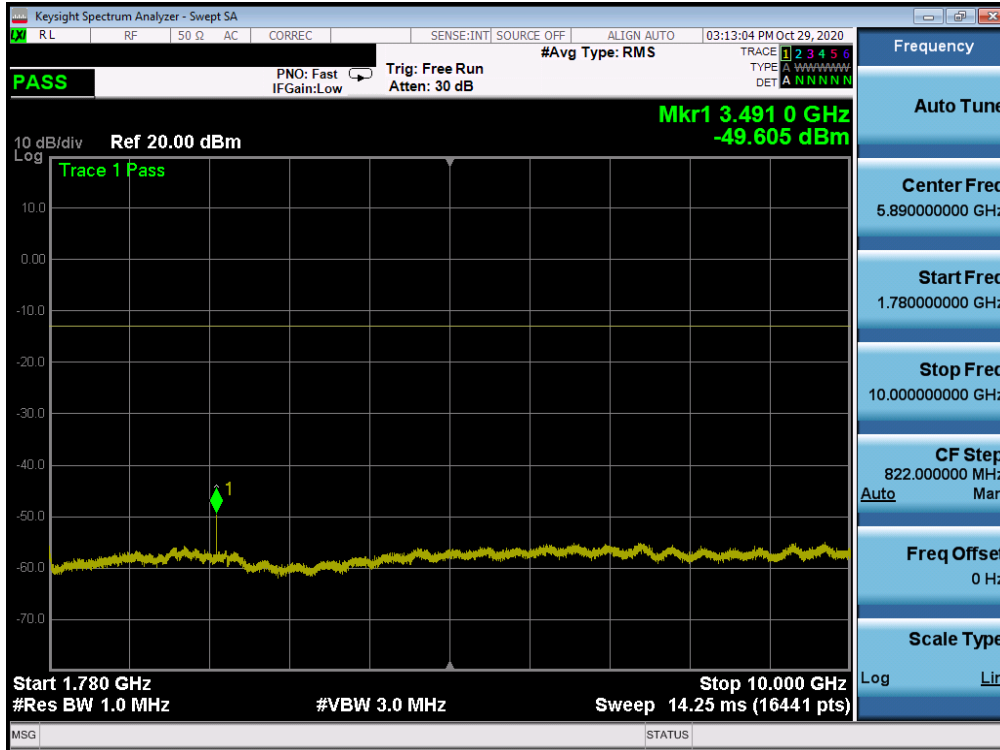


Plot 7-170. Conducted Spurious Plot (NR Band n66 - 40.0MHz - RB Size 1, RB Offset 0 - Low Channel)



Plot 7-171. Conducted Spurious Plot (NR Band n66 - 40.0MHz - RB Size 1, RB Offset 0 - Low Channel)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 – 12/05/2020	EUT Type: Portable Handset		Page 103 of 332



Plot 7-174. Conducted Spurious Plot (NR Band n66 - 40.0MHz - RB Size 1, RB Offset 0 - Mid Channel)

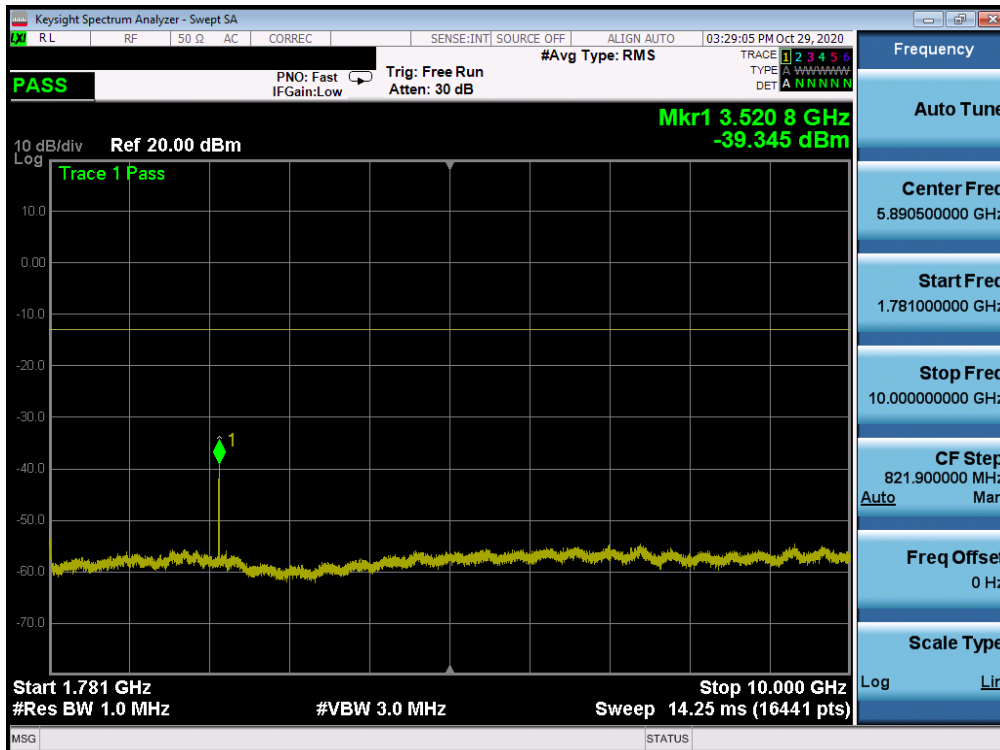


Plot 7-175. Conducted Spurious Plot (NR Band n66 - 40.0MHz - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 - 12/05/2020	EUT Type: Portable Handset		Page 105 of 332



Plot 7-176. Conducted Spurious Plot (NR Band n66 - 40.0MHz - RB Size 1, RB Offset 0 - High Channel)





Plot 7-177. Conducted Spurious Plot (NR Band n66 - 40.0MHz - RB Size 1, RB Offset 0 - High Channel)

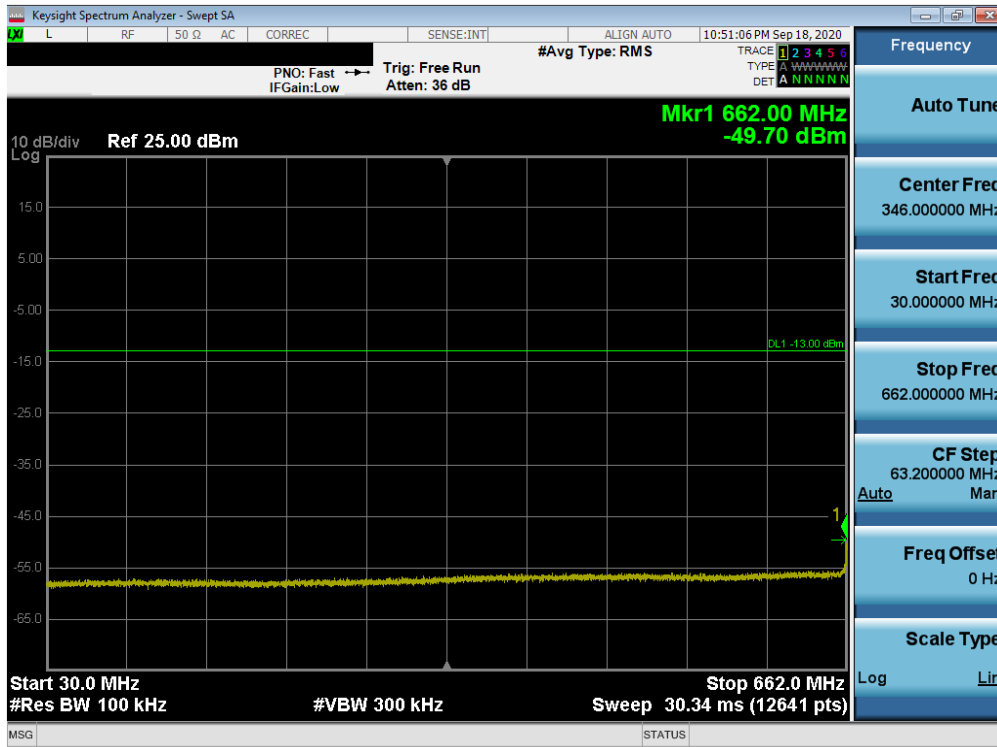
FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 - 12/05/2020	EUT Type: Portable Handset		Page 106 of 332



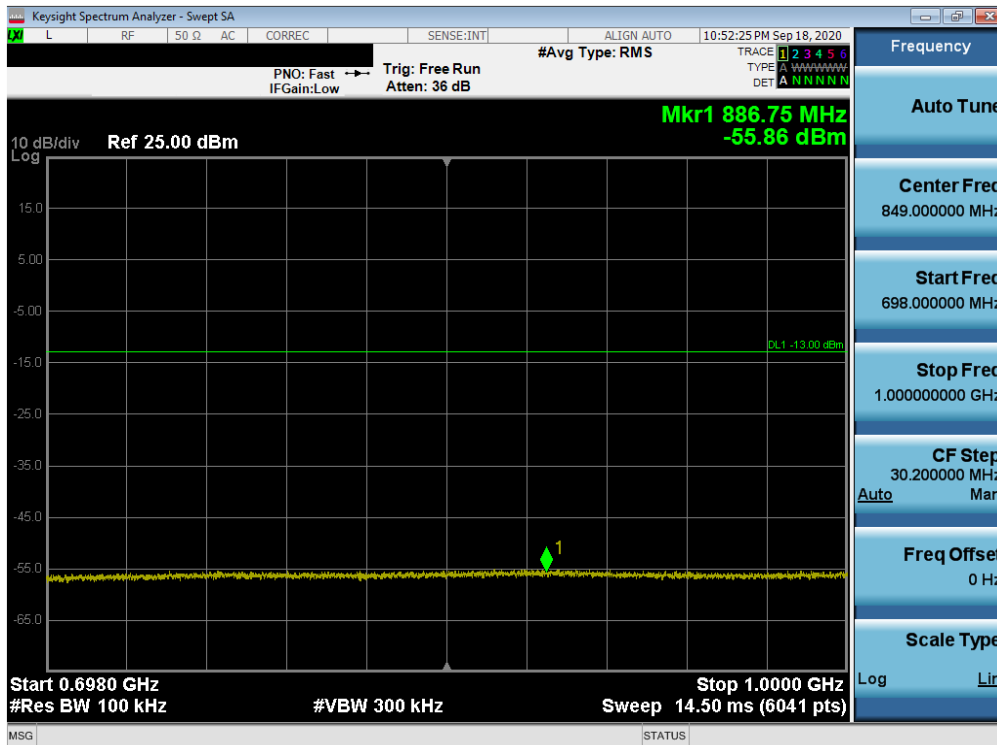
Plot 7-178. Conducted Spurious Plot (NR Band n66 - 40.0MHz - RB Size 1, RB Offset 0 - High Channel)

FCC ID: A3LSMG996U		PART 27 MEASUREMENT REPORT	 Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 – 12/05/2020	EUT Type: Portable Handset	Page 107 of 332

LTE Band 71



Plot 7-179. Conducted Spurious Plot (LTE Band 71 - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

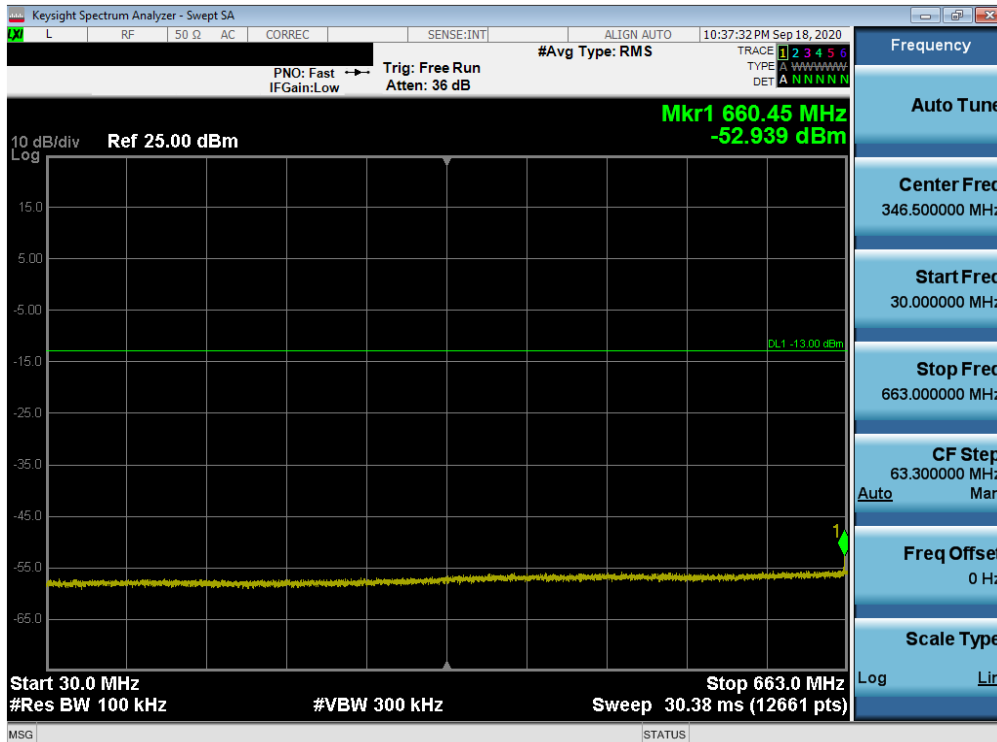


Plot 7-180. Conducted Spurious Plot (LTE Band 71 - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 – 12/05/2020	EUT Type: Portable Handset		Page 108 of 332

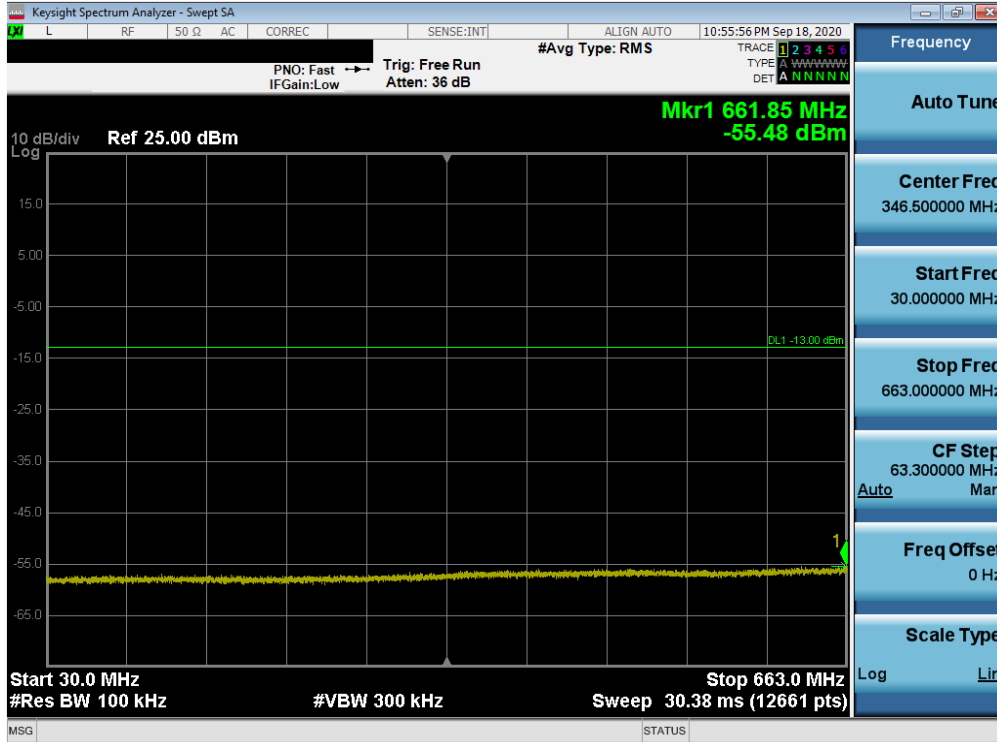


Plot 7-181. Conducted Spurious Plot (LTE Band 71 - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

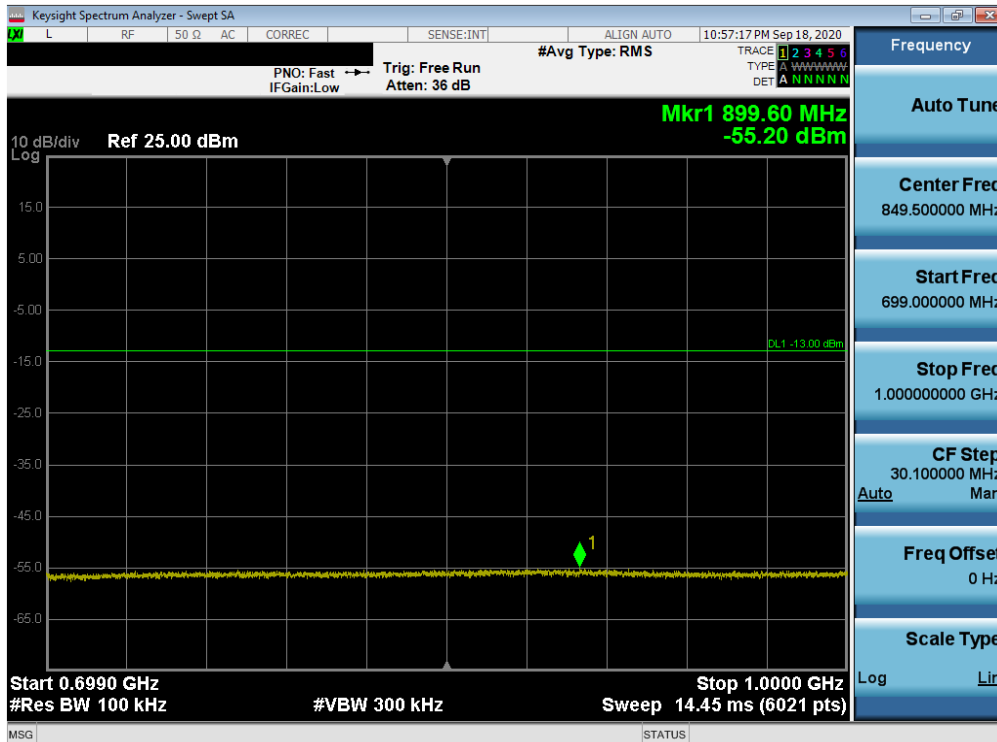


Plot 7-182. Conducted Spurious Plot (LTE Band 71 - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 – 12/05/2020	EUT Type: Portable Handset		Page 109 of 332

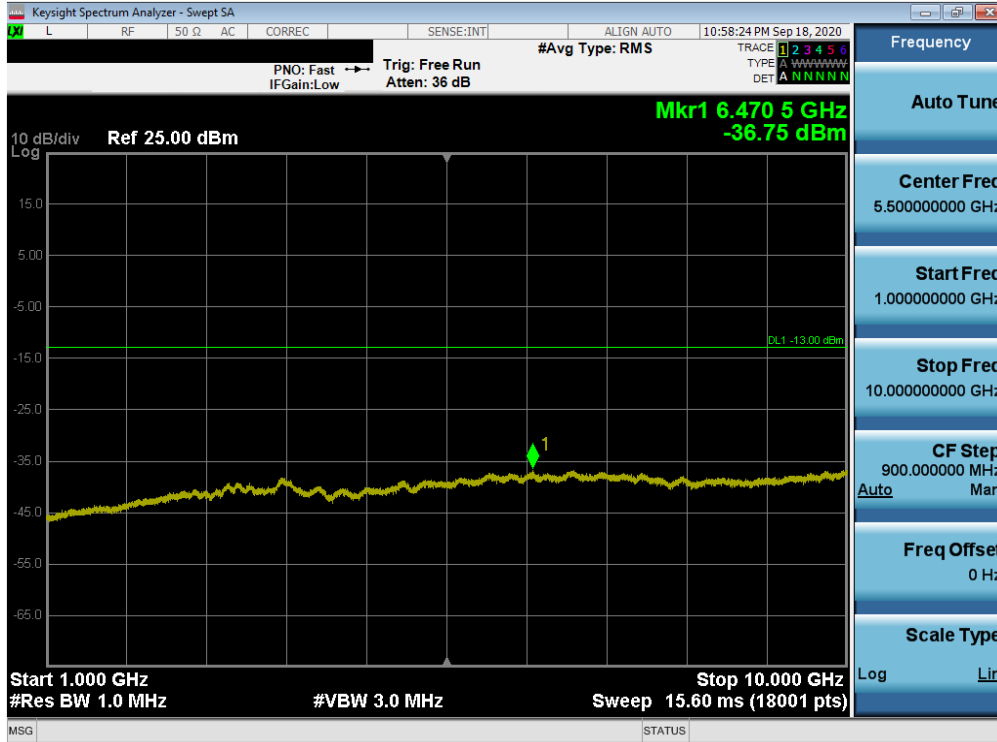


Plot 7-185. Conducted Spurious Plot (LTE Band 71 - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel)





Plot 7-186. Conducted Spurious Plot (LTE Band 71 - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

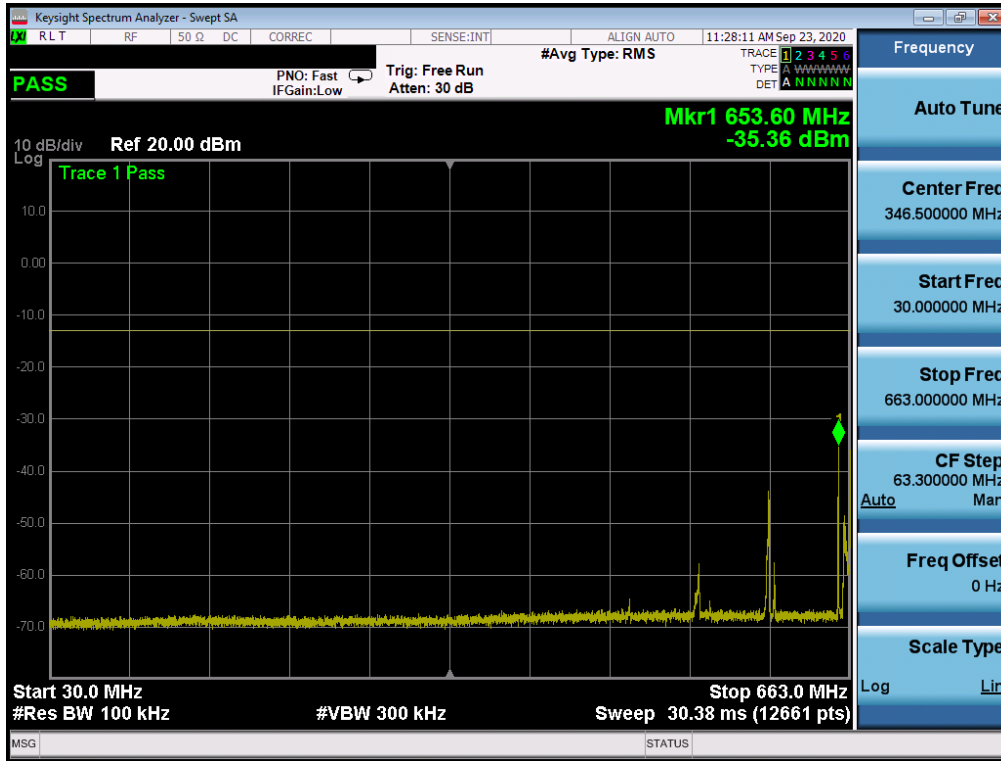
FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 – 12/05/2020	EUT Type: Portable Handset		Page 111 of 332



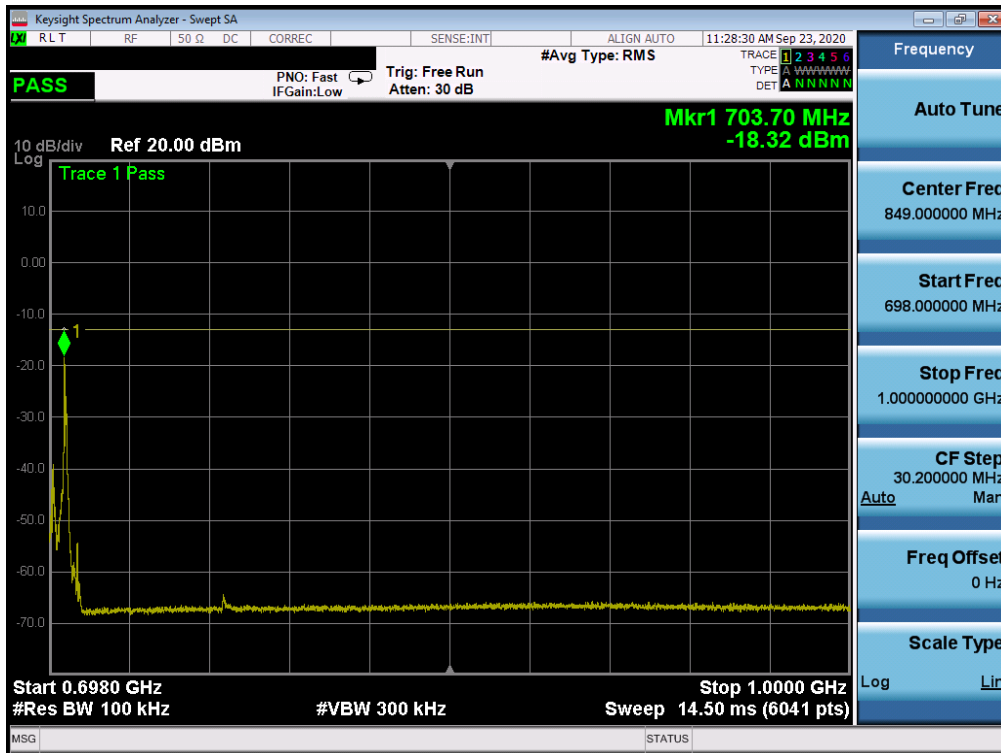
Plot 7-187. Conducted Spurious Plot (LTE Band 71 - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: A3LSMG996U		PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 – 12/05/2020	EUT Type: Portable Handset		Page 112 of 332

NR Band n71

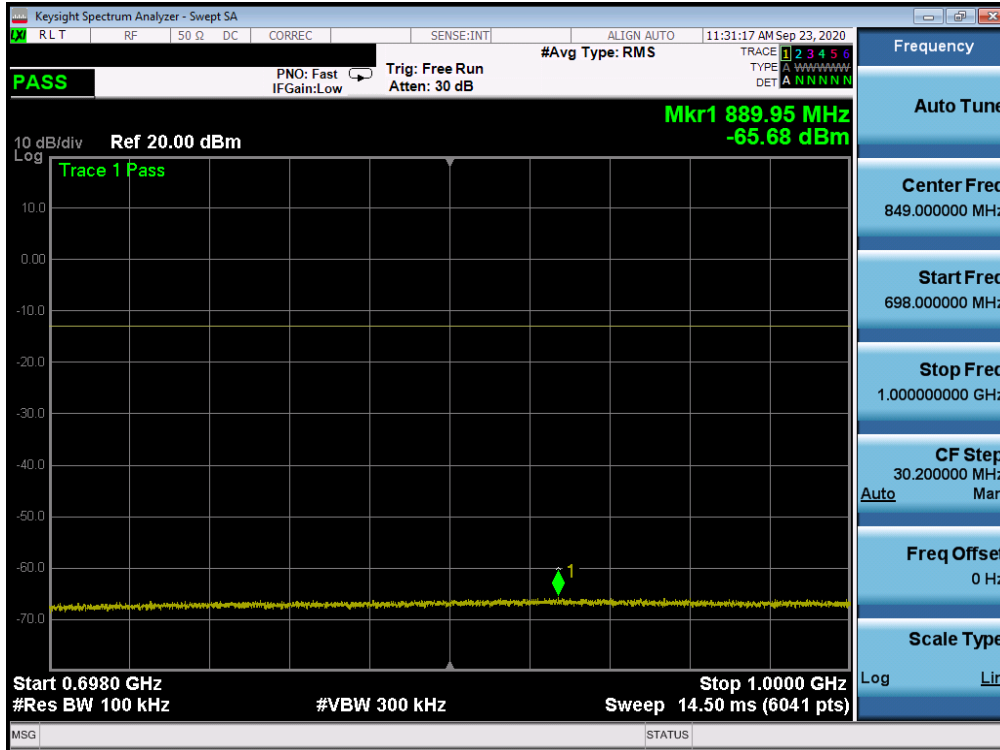


Plot 7-188. Conducted Spurious Plot (NR Band n71 -20.0MHz - RB Size 1, RB Offset 0 - Low Channel)

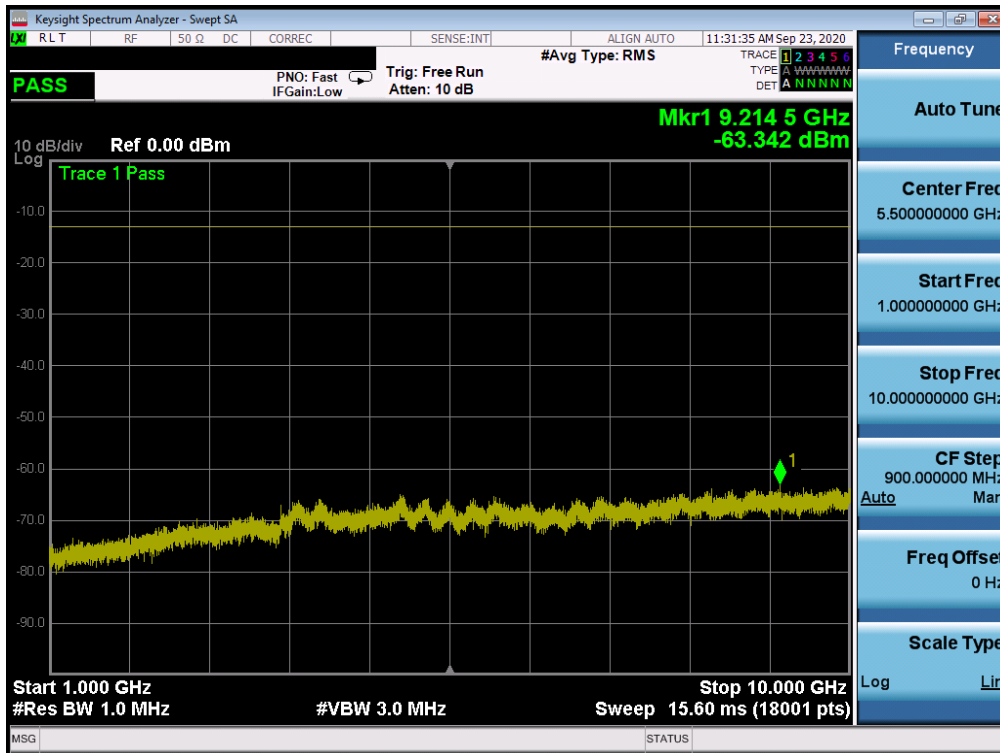


Plot 7-189. Conducted Spurious Plot (NR Band n71 - 20.0MHz - RB Size 1, RB Offset 0 - Low Channel)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 – 12/05/2020	EUT Type: Portable Handset		Page 113 of 332

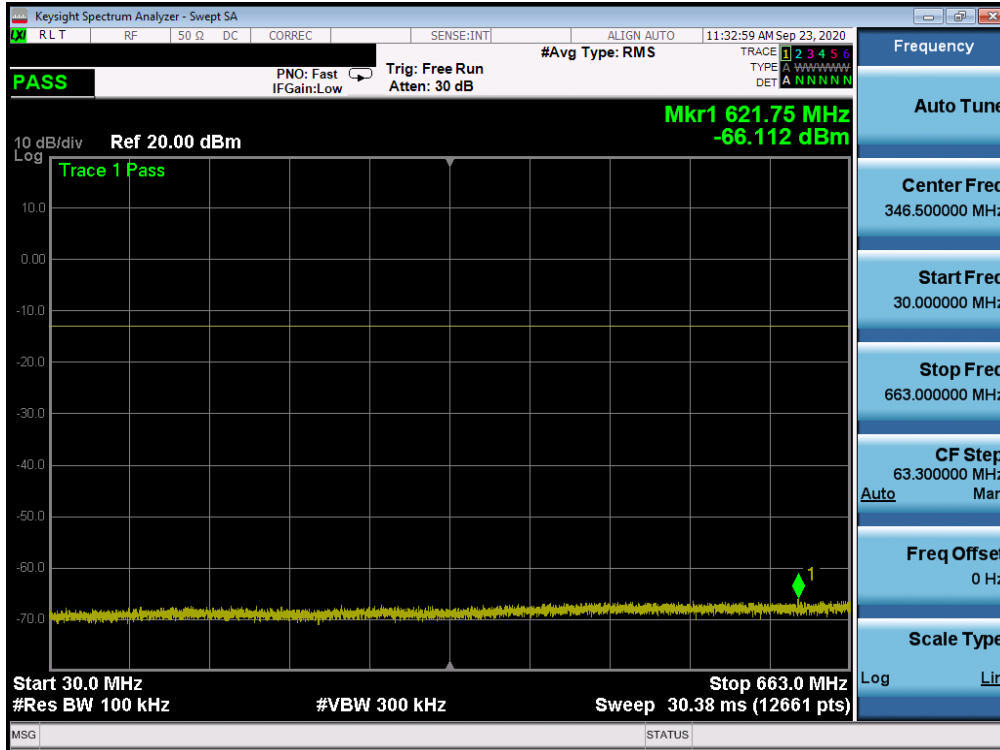


Plot 7-192. Conducted Spurious Plot (NR Band n71 - 20.0MHz - RB Size 1, RB Offset 0 - Mid Channel)

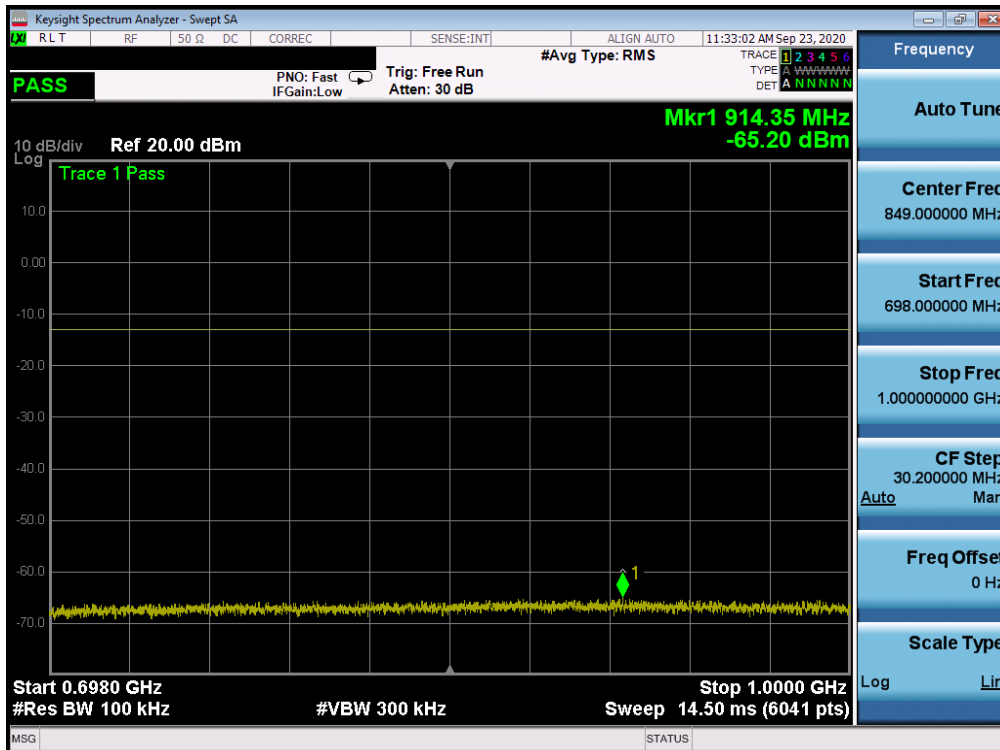


Plot 7-193. Conducted Spurious Plot (NR Band n71 - 20.0MHz - RB Size 1, RB Offset 0 - Mid Channel)



FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 - 12/05/2020	EUT Type: Portable Handset		Page 115 of 332



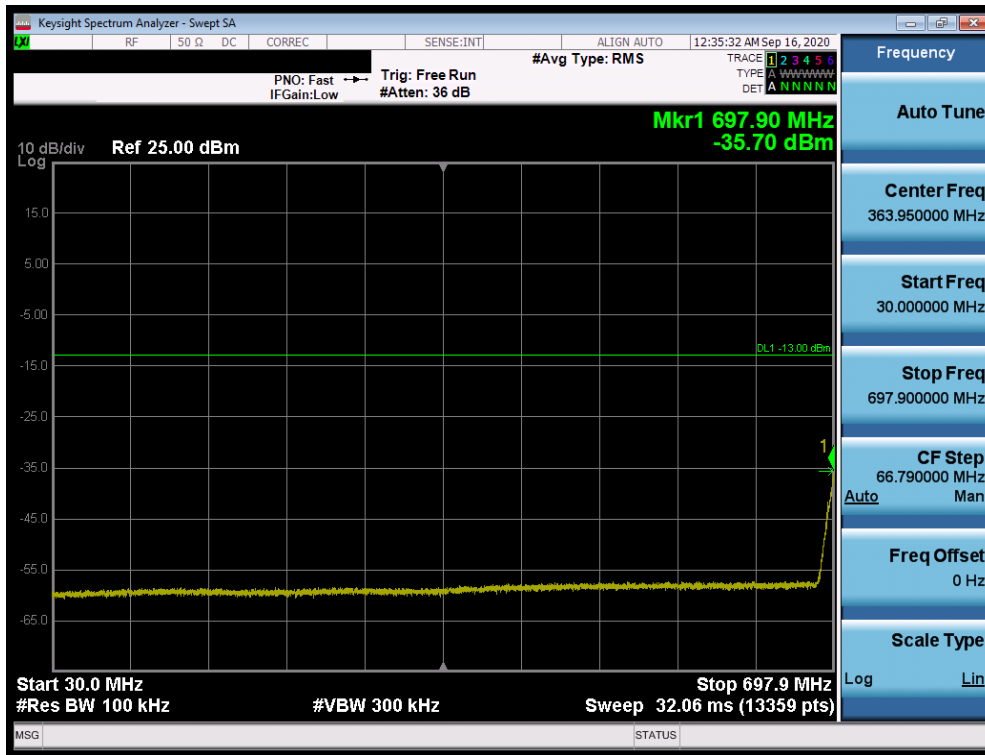
Plot 7-194. Conducted Spurious Plot (NR Band n71 - 20.0MHz - RB Size 1, RB Offset 0 - High Channel)



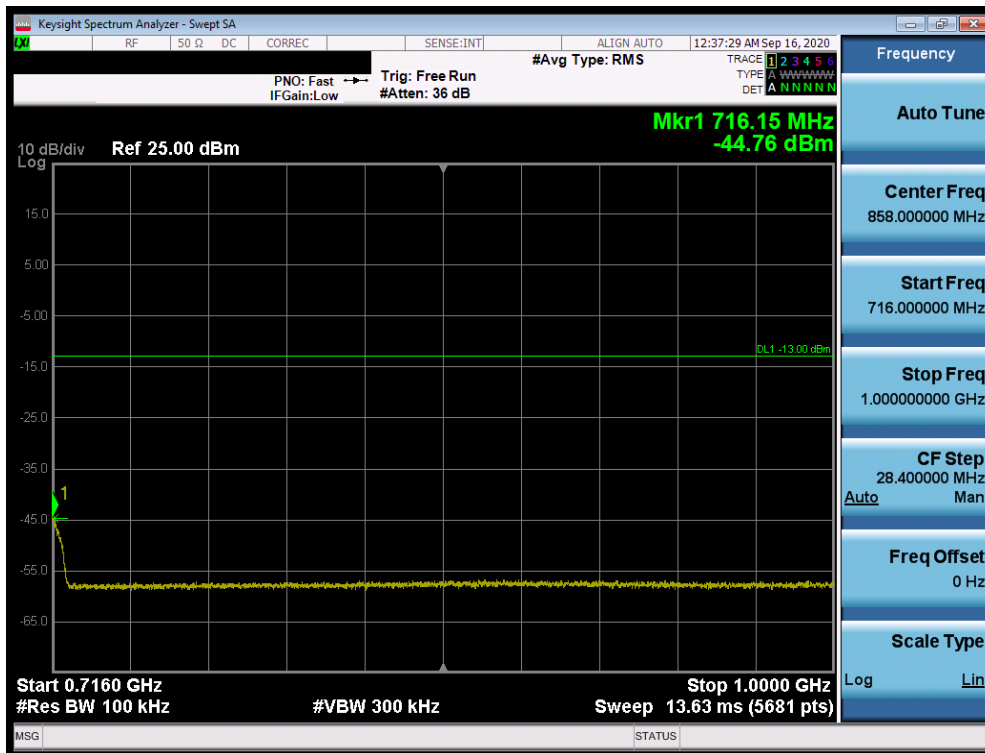
Plot 7-195. Conducted Spurious Plot (NR Band n71 - 20.0MHz - RB Size 1, RB Offset 0 - High Channel)

FCC ID: A3LSMG996U		PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
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Band 12/17



Plot 7-197. Conducted Spurious Plot (Band 12/17 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)



Plot 7-198. Conducted Spurious Plot (Band 12/17 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 – 12/05/2020	EUT Type: Portable Handset		Page 118 of 332