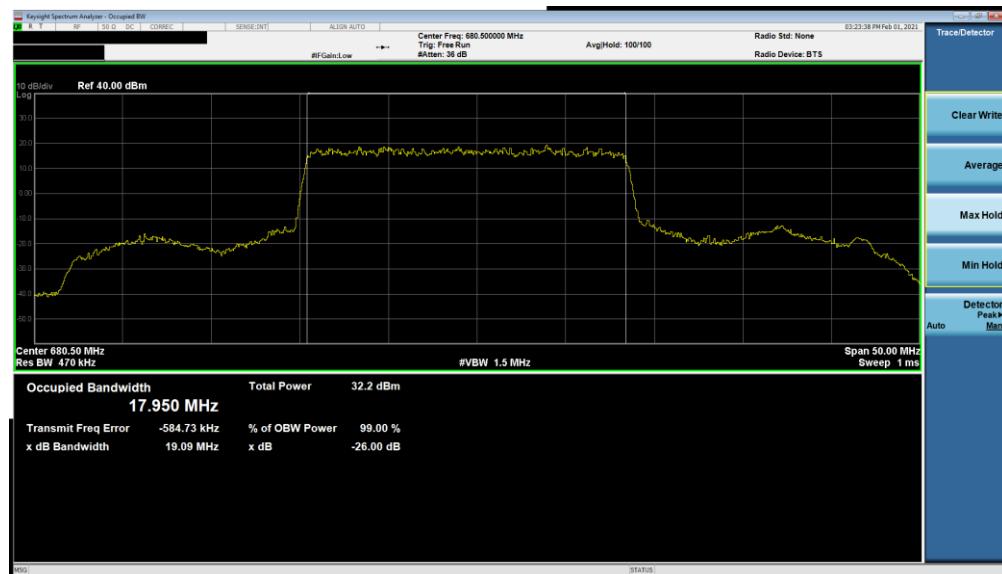
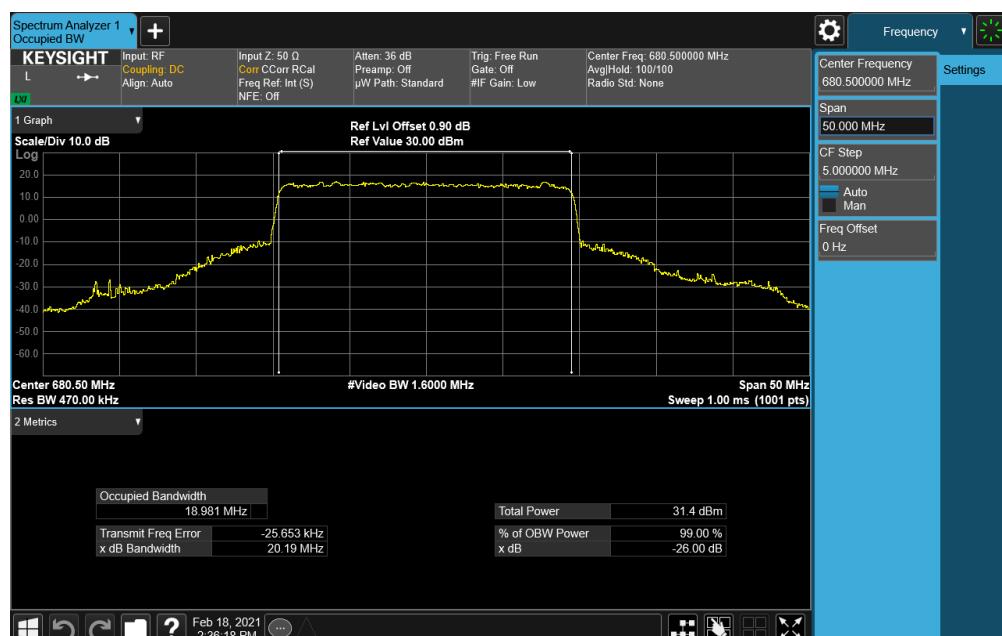


NR Band n71

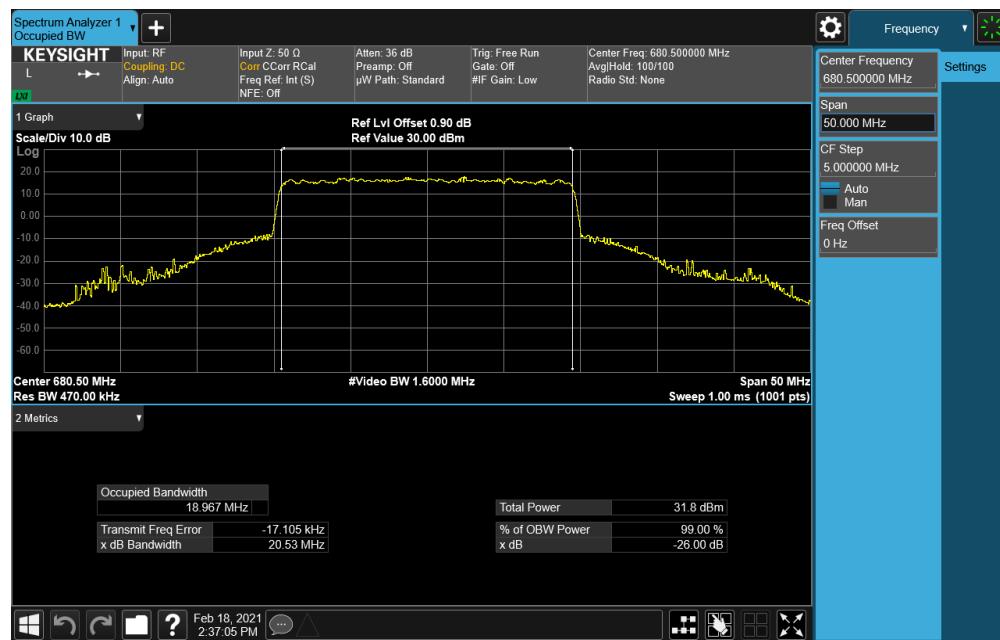


Plot 7-100. Occupied Bandwidth Plot (NR Band n71 - 20.0MHz DFT-s-OFDM π/2 BPSK - Full RB)

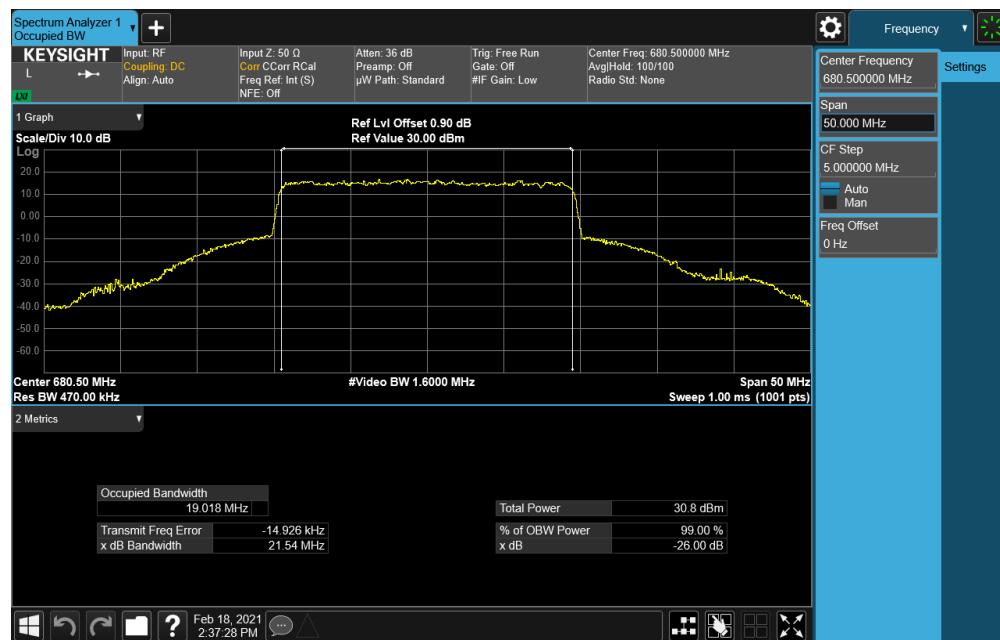


Plot 7-101. Occupied Bandwidth Plot (NR Band n71 - 20.0MHz CP-OFDM QPSK - Full RB)

FCC ID: BCGA2379	 PART 27 MEASUREMENT REPORT			Approved by: Quality Manager
Test Report S/N: 1C2101020005-04-R1.BCG	Test Dates: 12/15/2020 - 02/20/2021	EUT Type: Tablet Device		Page 66 of 267

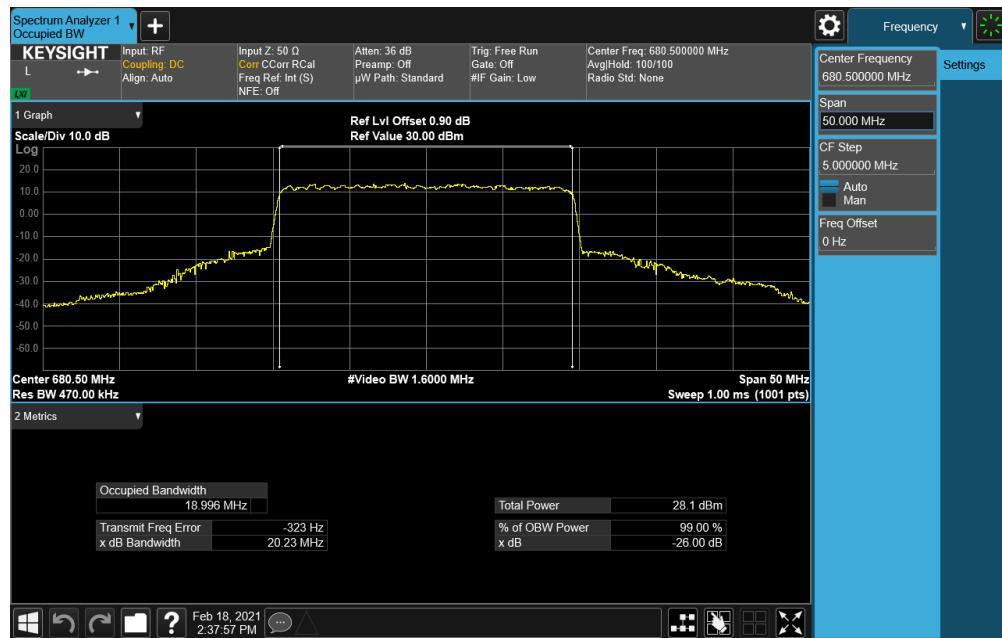


Plot 7-102. Occupied Bandwidth Plot (NR Band n71 - 20.0MHz CP-OFDM 16QAM - Full RB)

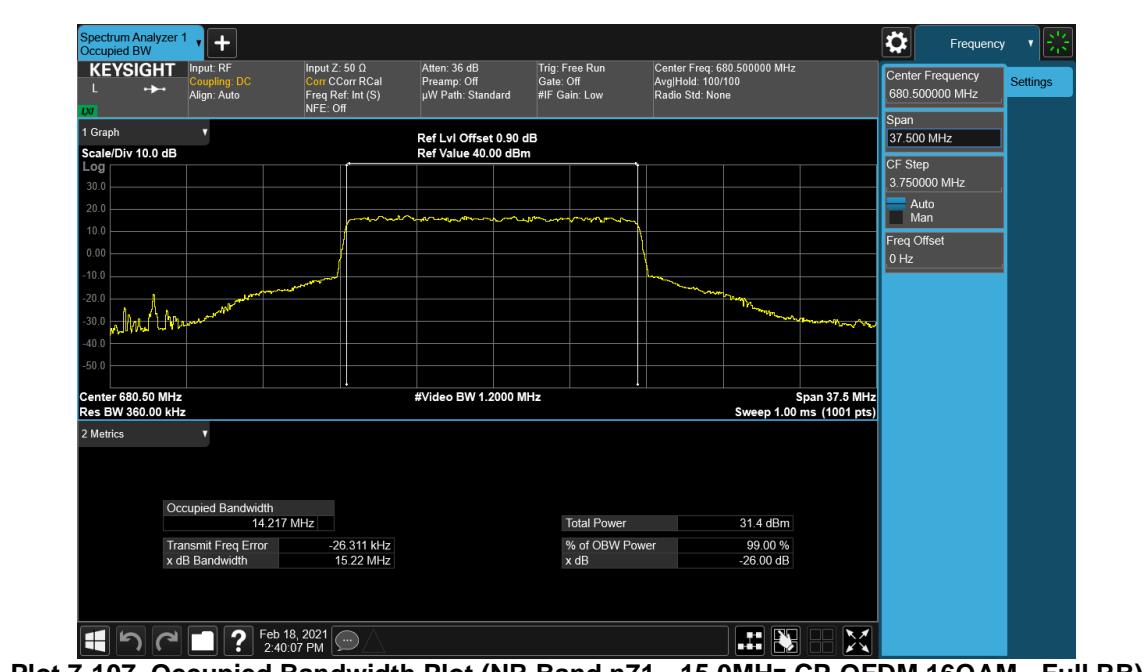
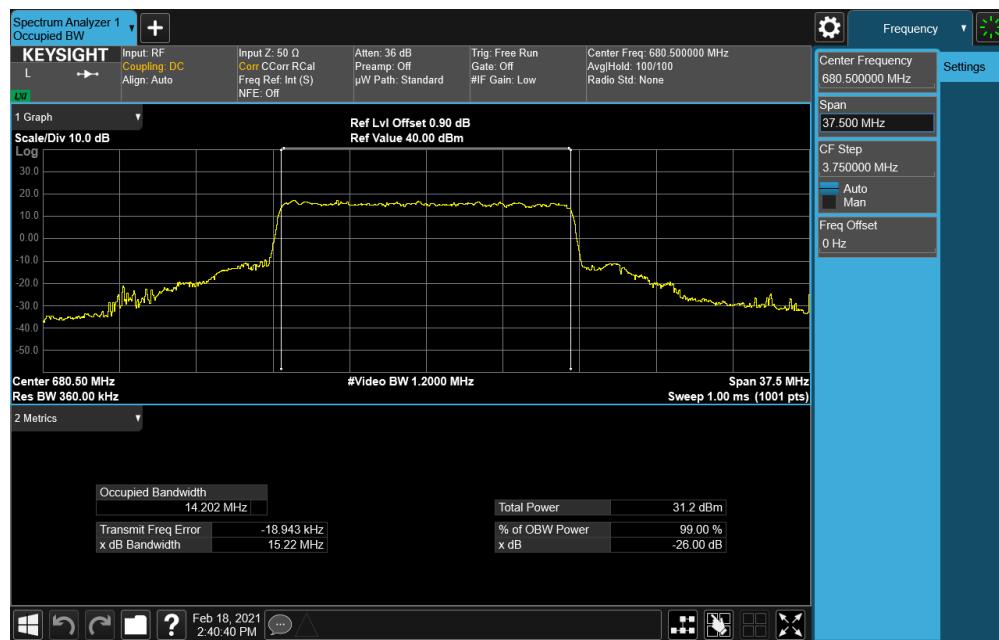


Plot 7-103. Occupied Bandwidth Plot (NR Band n71 - 20.0MHz CP-OFDM 64QAM - Full RB)

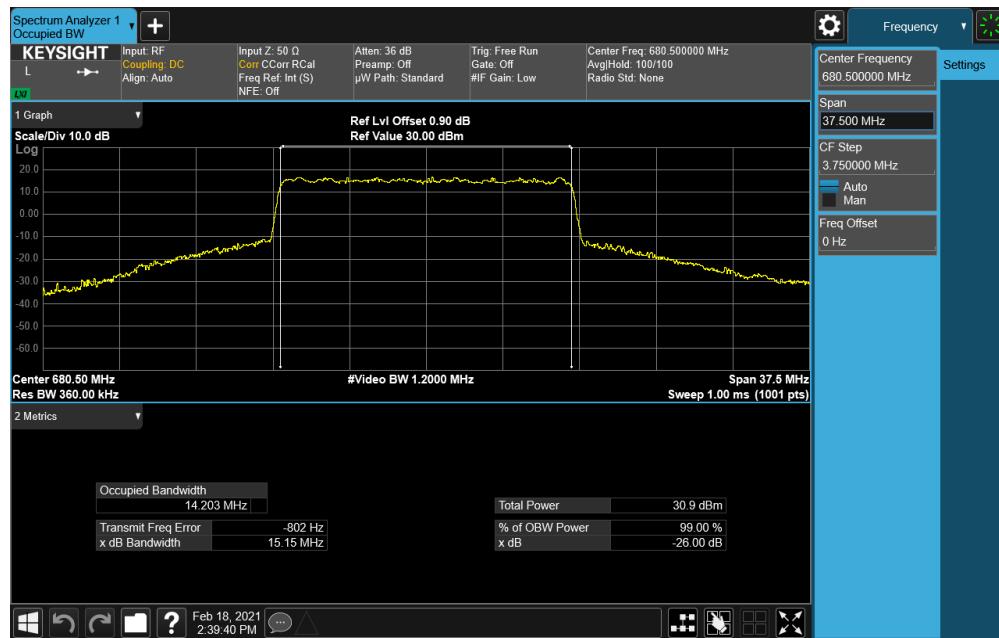
FCC ID: BCGA2379	PCTEST Proud to be part of 		PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020005-04-R1.BCG	Test Dates: 12/15/2020 - 02/20/2021	EUT Type: Tablet Device		Page 67 of 267



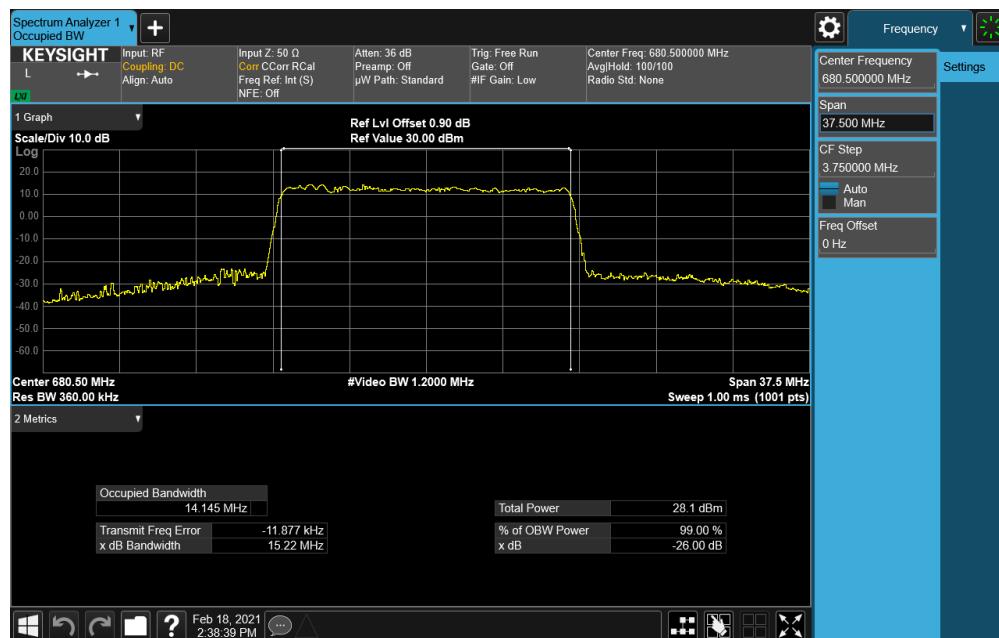
FCC ID: BCGA2379	PCTEST Proud to be part of 		PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020005-04-R1.BCG	Test Dates: 12/15/2020 - 02/20/2021	EUT Type: Tablet Device		Page 68 of 267



FCC ID: BCGA2379	PCTEST Proud to be part of 		PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
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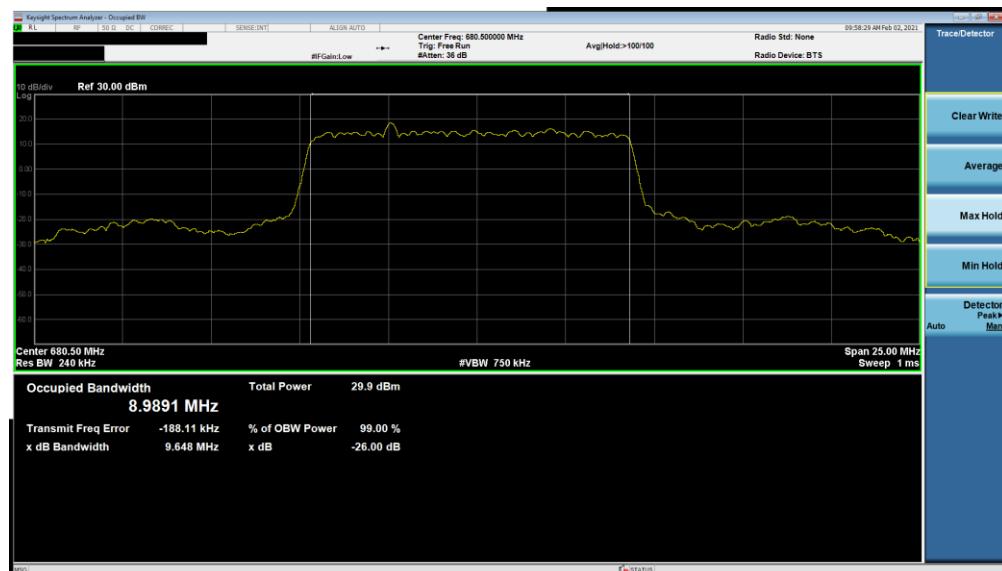


Plot 7-108. Occupied Bandwidth Plot (NR Band n71 - 15.0MHz CP-OFDM 64QAM - Full RB)

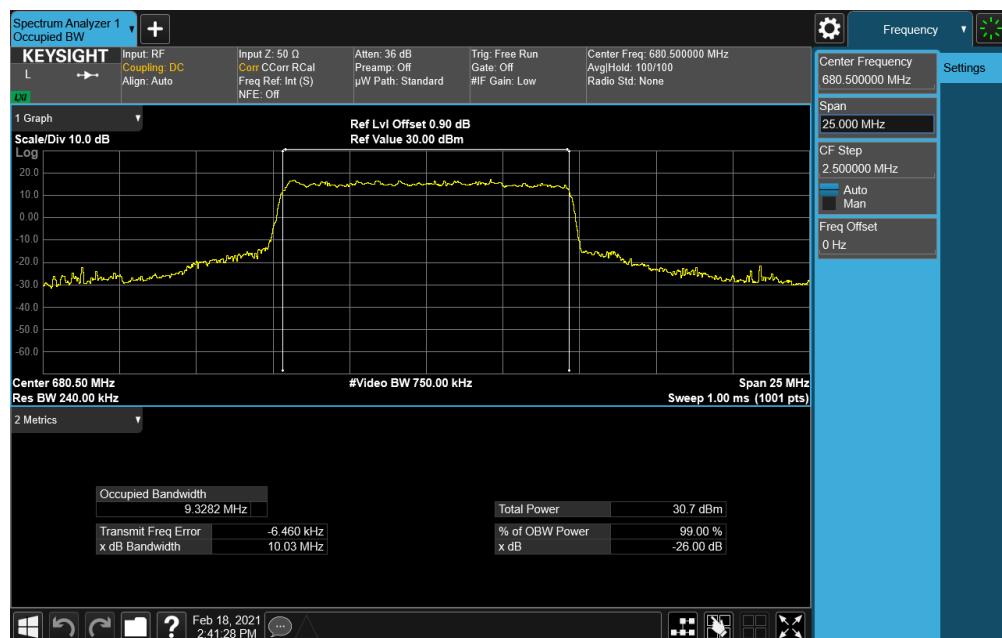


Plot 7-109. Occupied Bandwidth Plot (NR Band n71 - 15.0MHz CP-OFDM 256QAM - Full RB)

FCC ID: BCGA2379	PCTEST Proud to be part of 		PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020005-04-R1.BCG	Test Dates: 12/15/2020 - 02/20/2021	EUT Type: Tablet Device		Page 70 of 267

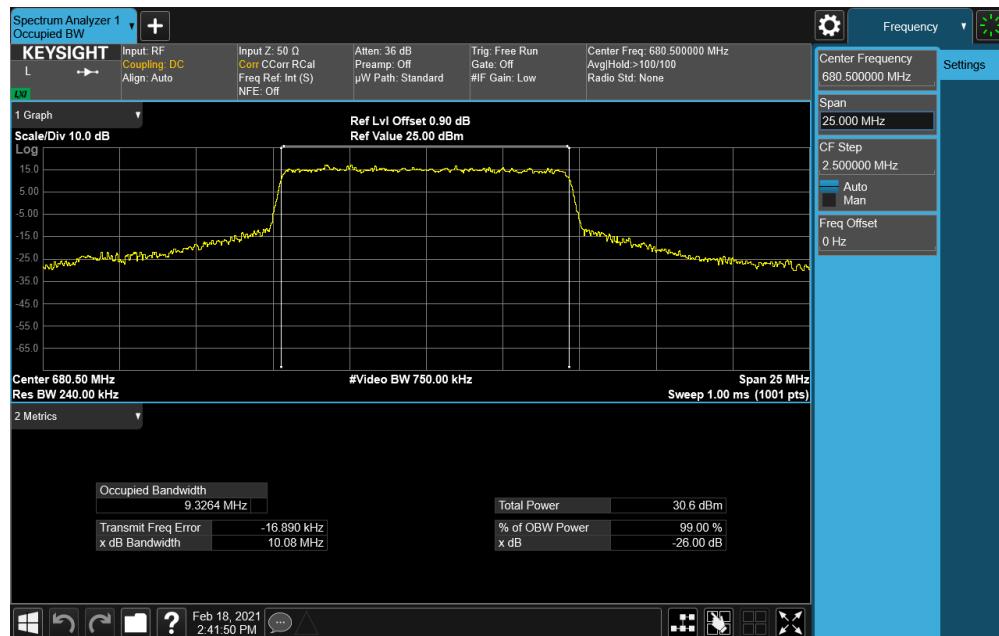


Plot 7-110. Occupied Bandwidth Plot (NR Band n71 - 10.0MHz DFT-s-OFDM π/2 BPSK - Full RB)

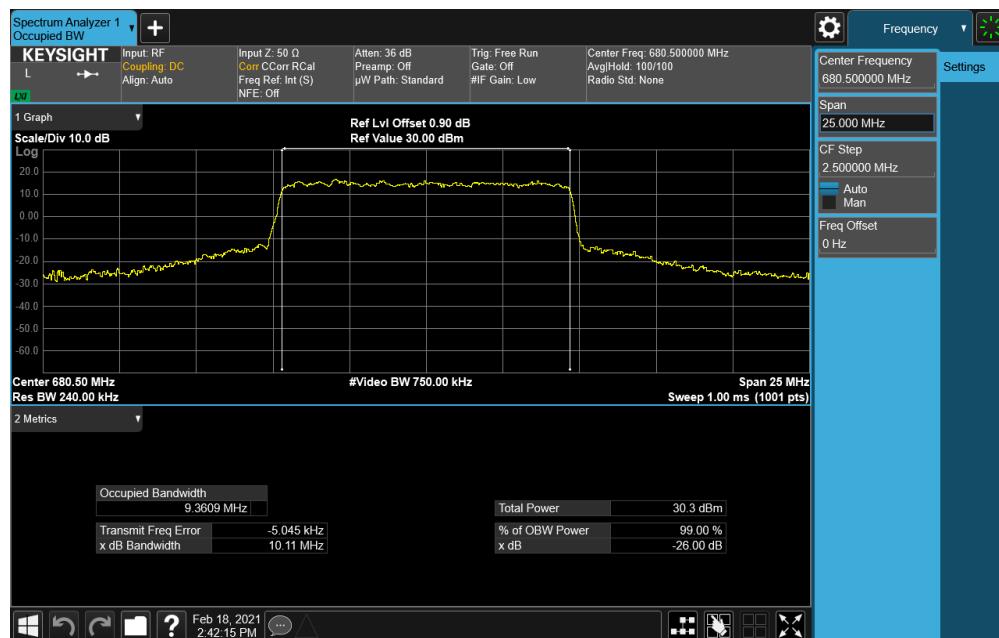


Plot 7-111. Occupied Bandwidth Plot (NR Band n71 - 10.0MHz CP-OFDM QPSK - Full RB)

FCC ID: BCGA2379	PCTEST Proud to be part of 		PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020005-04-R1.BCG	Test Dates: 12/15/2020 - 02/20/2021	EUT Type: Tablet Device		Page 71 of 267



Plot 7-112. Occupied Bandwidth Plot (NR Band n71 - 10.0MHz CP-OFDM 16QAM - Full RB)

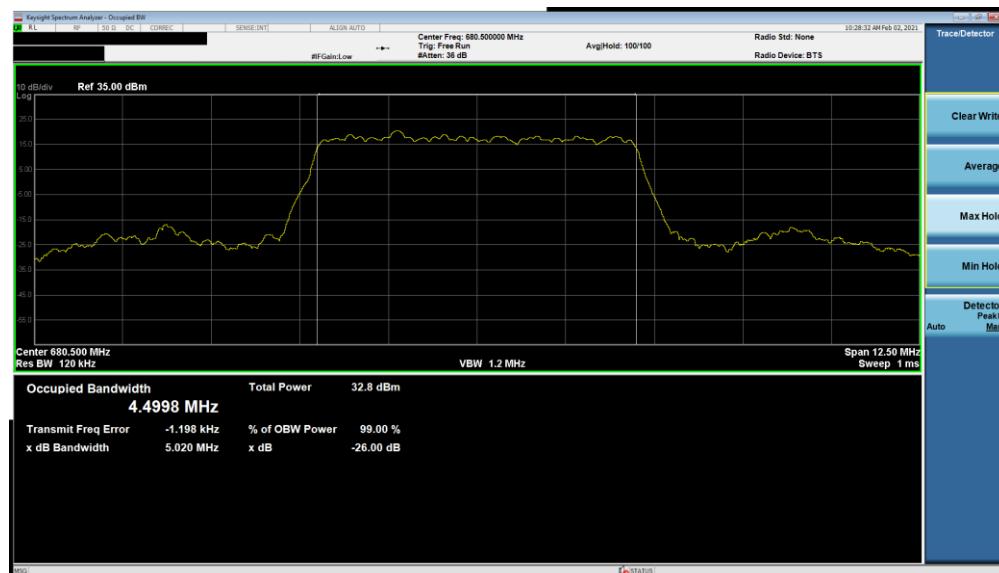


Plot 7-113. Occupied Bandwidth Plot (NR Band n71 - 10.0MHz CP-OFDM 64QAM - Full RB)

FCC ID: BCGA2379	PCTEST Proud to be part of 		PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020005-04-R1.BCG	Test Dates: 12/15/2020 - 02/20/2021	EUT Type: Tablet Device		Page 72 of 267

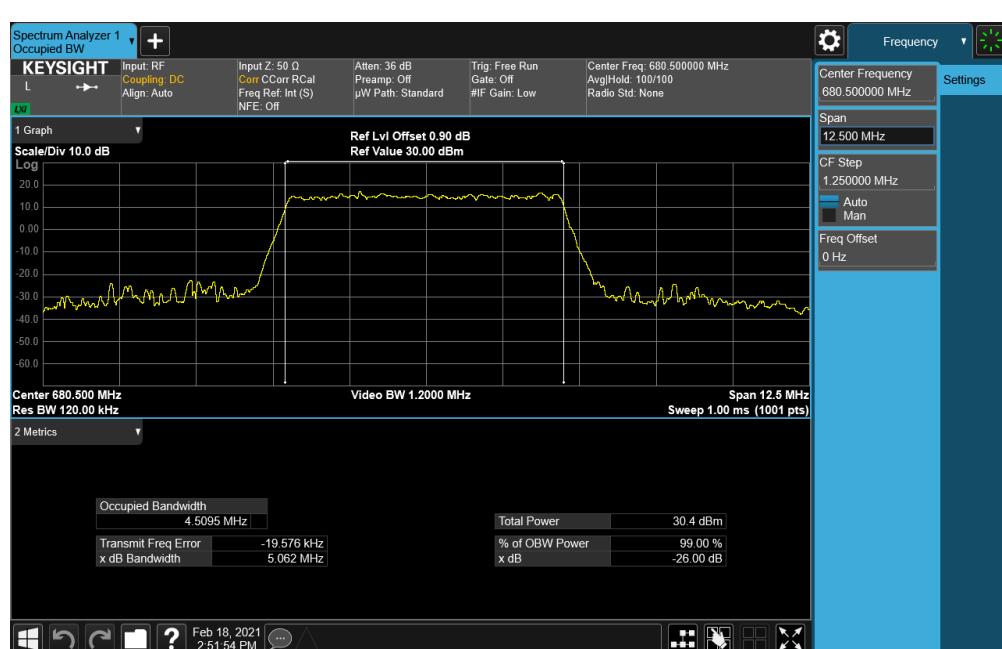
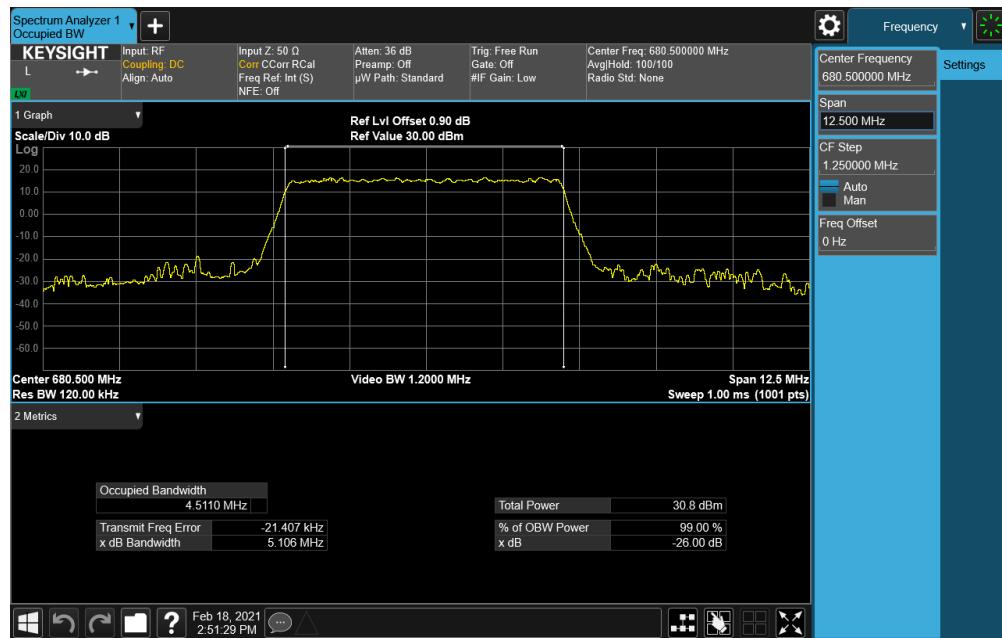


Plot 7-114. Occupied Bandwidth Plot (NR Band n71 - 10.0MHz CP-OFDM 256QAM - Full RB)

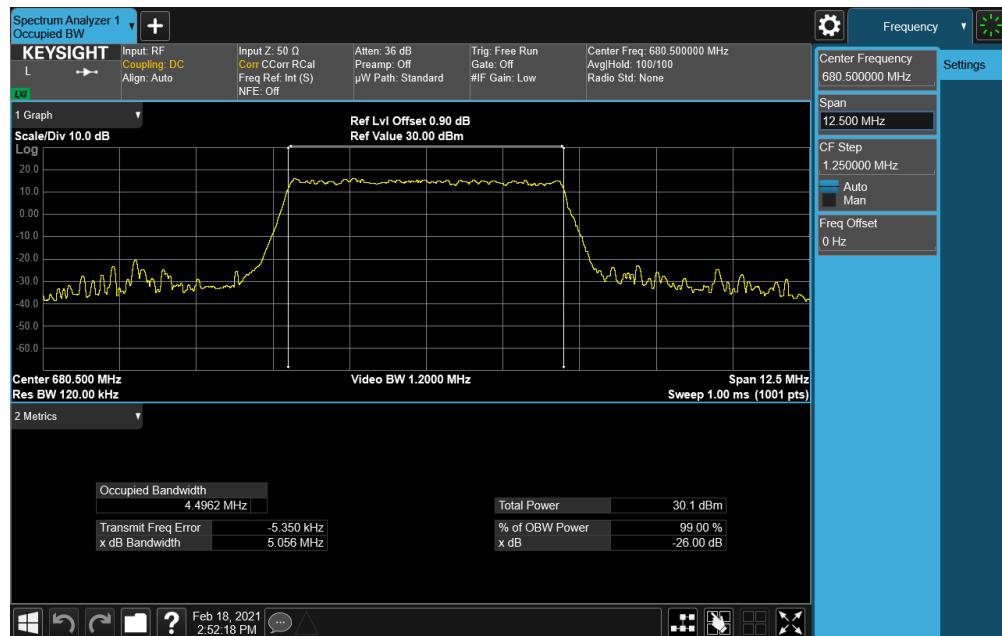


Plot 7-115. Occupied Bandwidth Plot (NR Band n71 - 5.0MHz DFT-s-OFDM π/2 BPSK - Full RB)

FCC ID: BCGA2379	PCTEST Proud to be part of 		PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020005-04-R1.BCG	Test Dates: 12/15/2020 - 02/20/2021	EUT Type: Tablet Device		Page 73 of 267



FCC ID: BCGA2379	PCTEST Proud to be part of 		PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020005-04-R1.BCG	Test Dates: 12/15/2020 - 02/20/2021	EUT Type: Tablet Device		Page 74 of 267



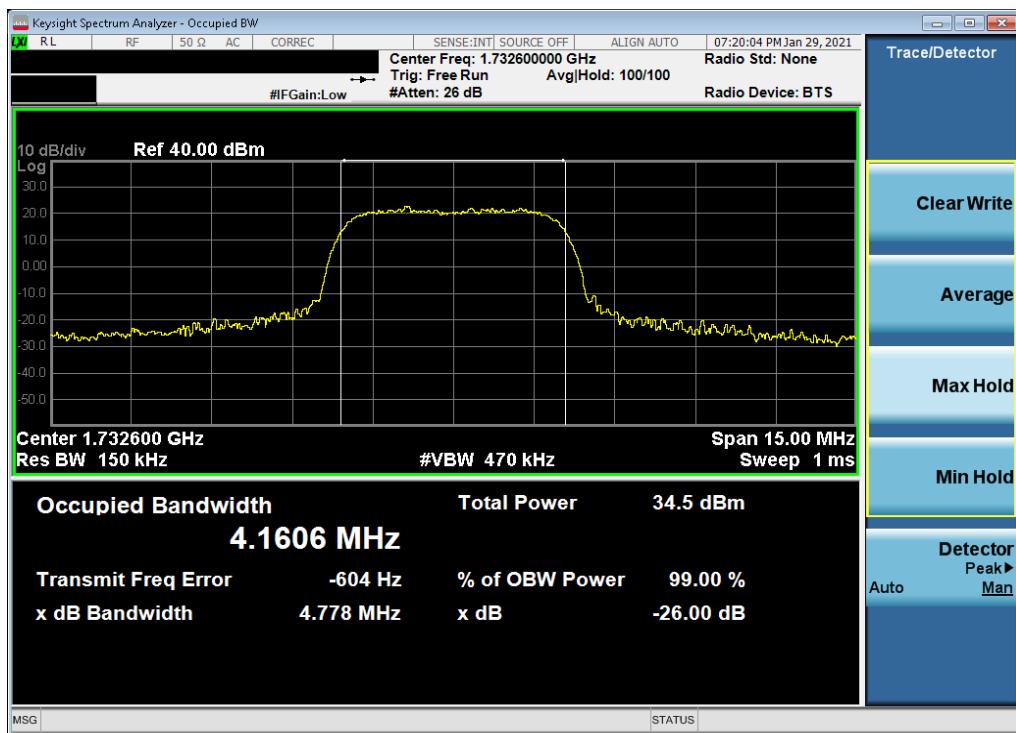
Plot 7-118. Occupied Bandwidth Plot (NR Band n71 - 5.0MHz CP-OFDM 64QAM - Full RB)



Plot 7-119. Occupied Bandwidth Plot (NR Band n71 - 5.0MHz CP-OFDM 256QAM - Full RB)

FCC ID: BCGA2379	PCTEST Proud to be part of 		PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020005-04-R1.BCG	Test Dates: 12/15/2020 - 02/20/2021	EUT Type: Tablet Device		Page 75 of 267

WCDMA AWS



Plot 7-120. Occupied Bandwidth Plot (WCDMA, Ch. 1413)

FCC ID: BCGA2379	PCTEST® Proud to be part of element		PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020005-04-R1.BCG	Test Dates: 12/15/2020 - 02/20/2021	EUT Type: Tablet Device		Page 76 of 267

7.3 Spurious and Harmonic Emissions at Antenna Terminal

§2.1051, §27.53

Test Overview

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 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. All ports were tested and only the worst case data were 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 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.

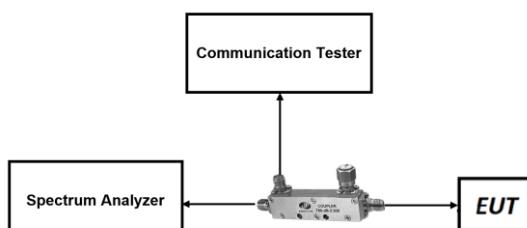


Figure 7-2. Test Instrument & Measurement Setup

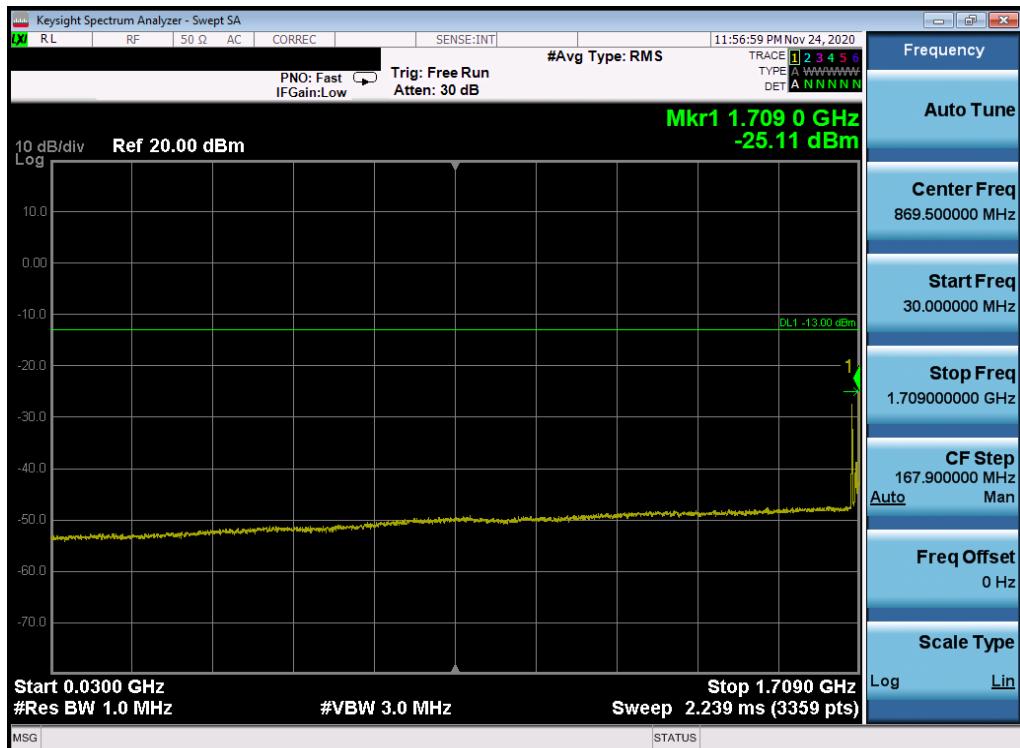
FCC ID: BCGA2379	 PCTEST <small>Proud to be part of element</small>		PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020005-04-R1.BCG	Test Dates: 12/15/2020 - 02/20/2021	EUT Type: Tablet Device		Page 77 of 267

Test Notes

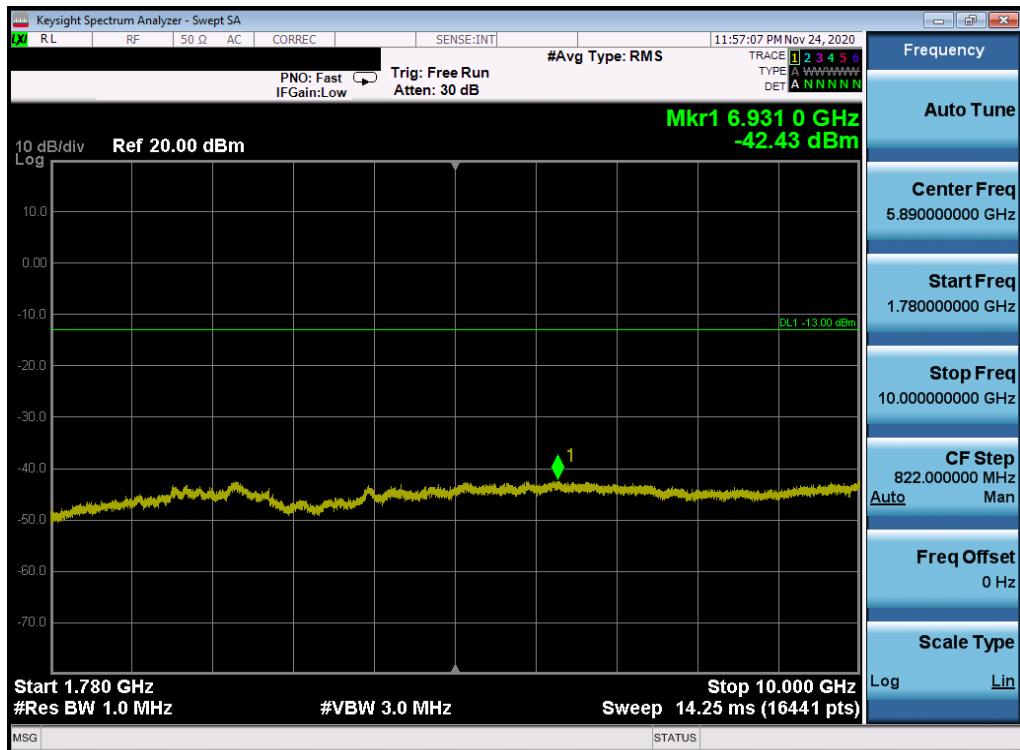
1. Per Part 27, compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth 100 kHz or greater for measurements below 1GHz. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least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

FCC ID: BCGA2379	PCTEST [®] Proud to be part of element			PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
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LTE Band 66/4

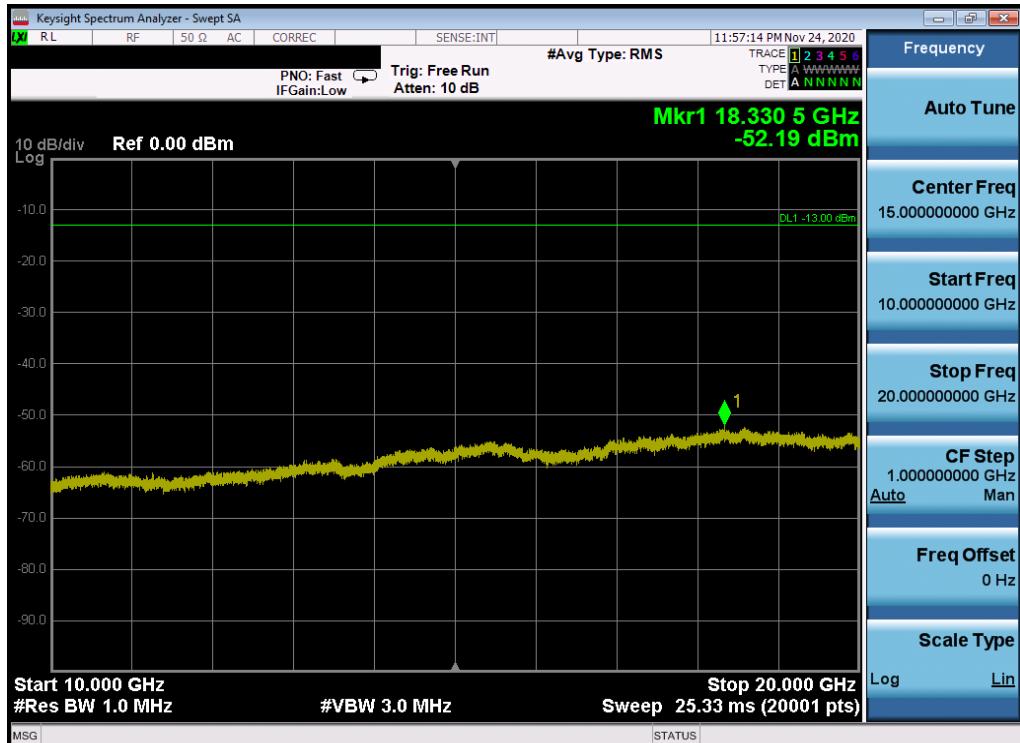


Plot 7-121. CSE (LTE Band 66/4 - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

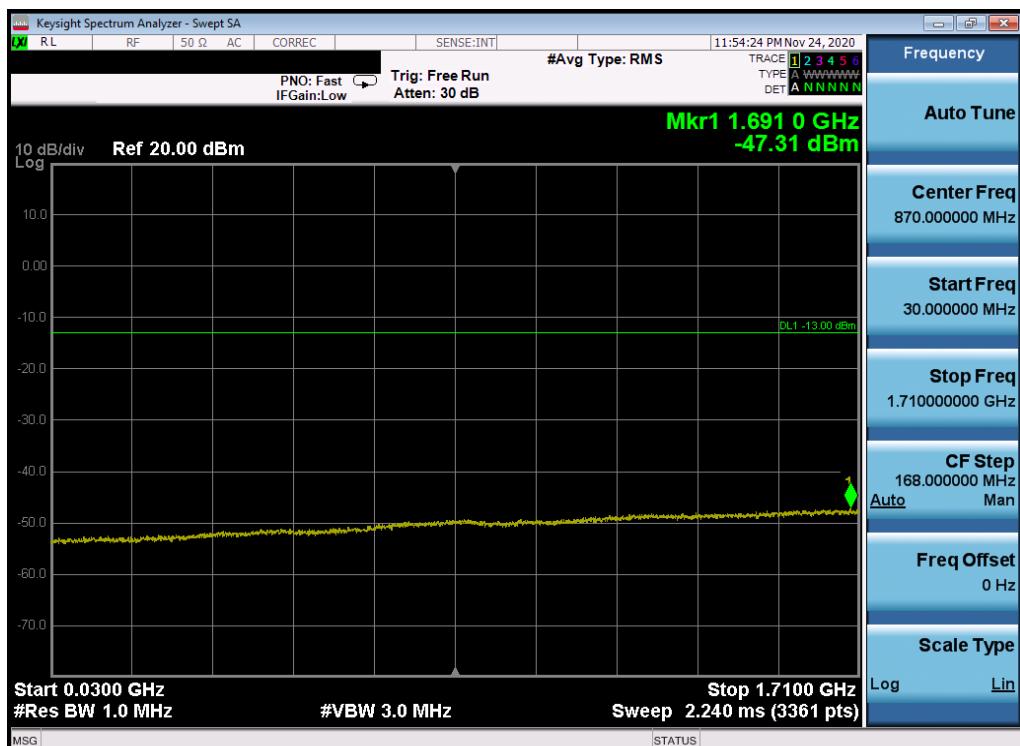


Plot 7-122. CSE (LTE Band 66/4 - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

FCC ID: BCGA2379	PCTEST Proud to be part of element		PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020005-04-R1.BCG	Test Dates: 12/15/2020 - 02/20/2021	EUT Type: Tablet Device		

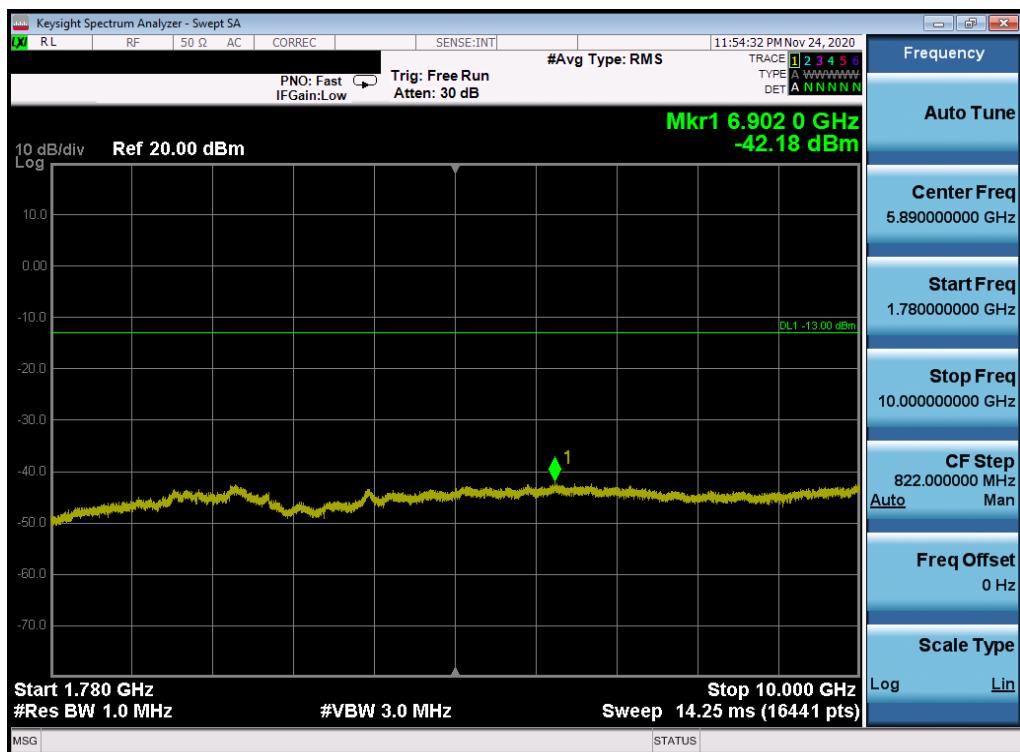


Plot 7-123. CSE (LTE Band 66/4 - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

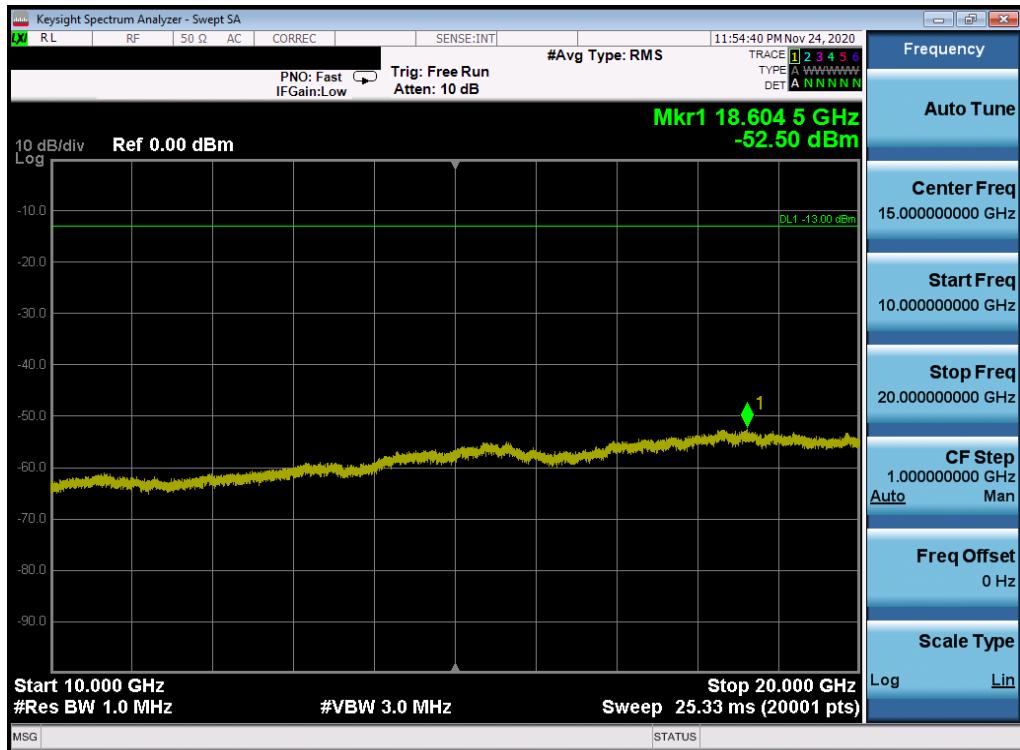


Plot 7-124. CSE (LTE Band 66/4 - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: BCGA2379	PCTEST Proud to be part of 			PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020005-04-R1.BCG	Test Dates: 12/15/2020 - 02/20/2021	EUT Type: Tablet Device			Page 80 of 267

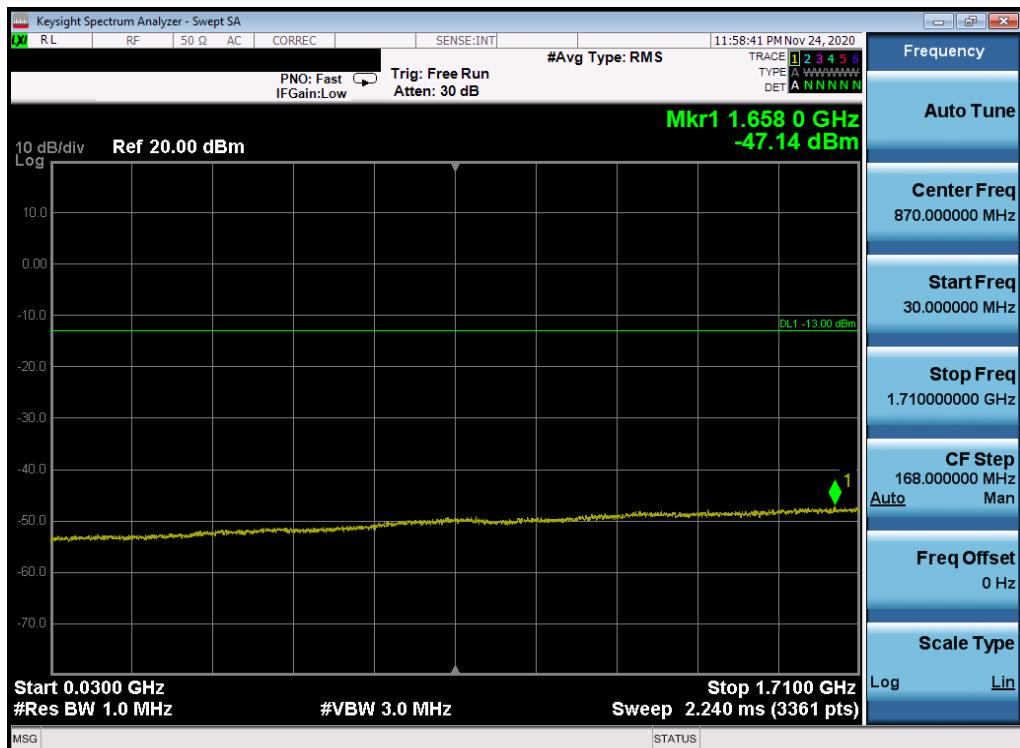


Plot 7-125. CSE (LTE Band 66/4 - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

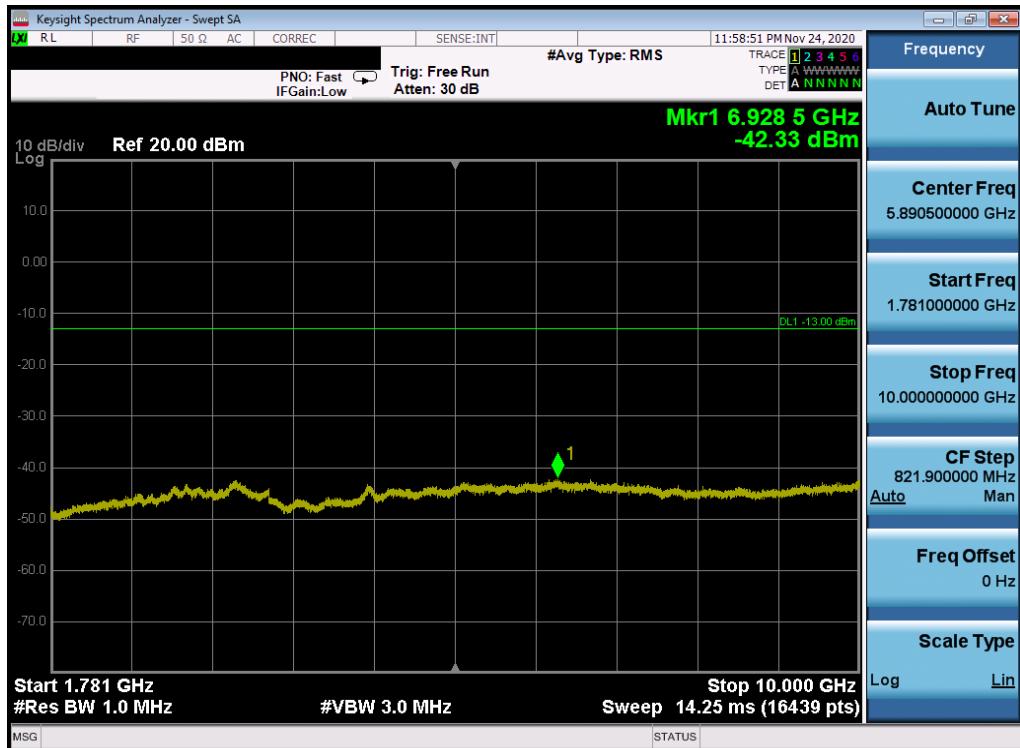


Plot 7-126. CSE (LTE Band 66/4 - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: BCGA2379	PCTEST Proud to be part of 			PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020005-04-R1.BCG	Test Dates: 12/15/2020 - 02/20/2021	EUT Type: Tablet Device			Page 81 of 267

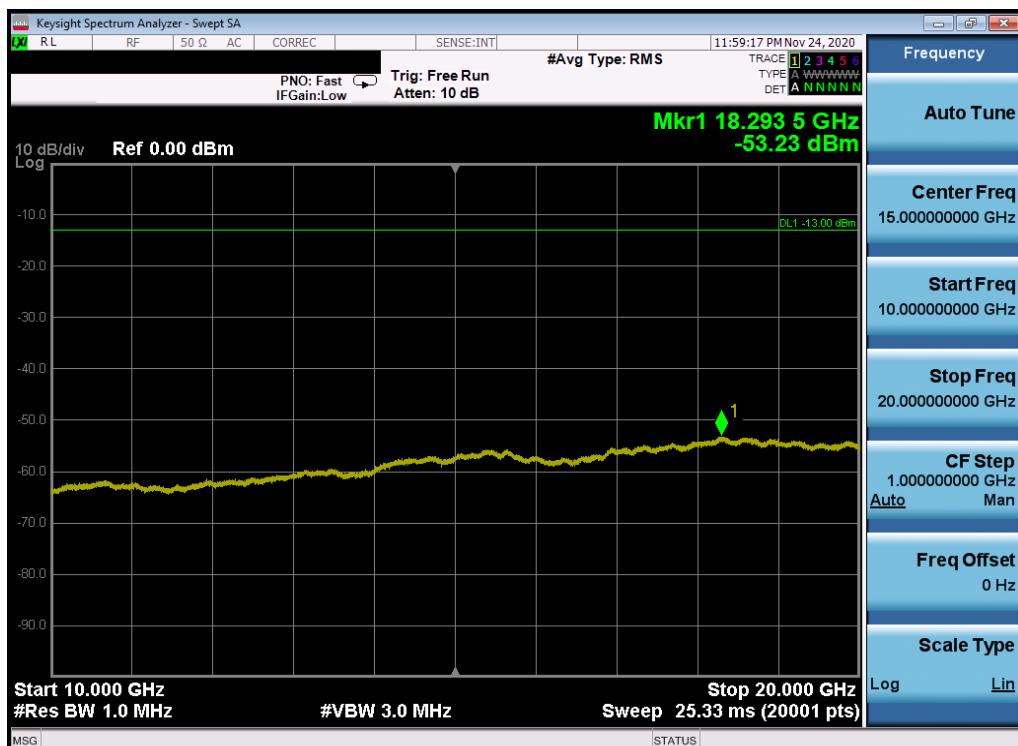


Plot 7-127. CSE (LTE Band 66/4 - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel)



Plot 7-128. CSE (LTE Band 66/4 - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

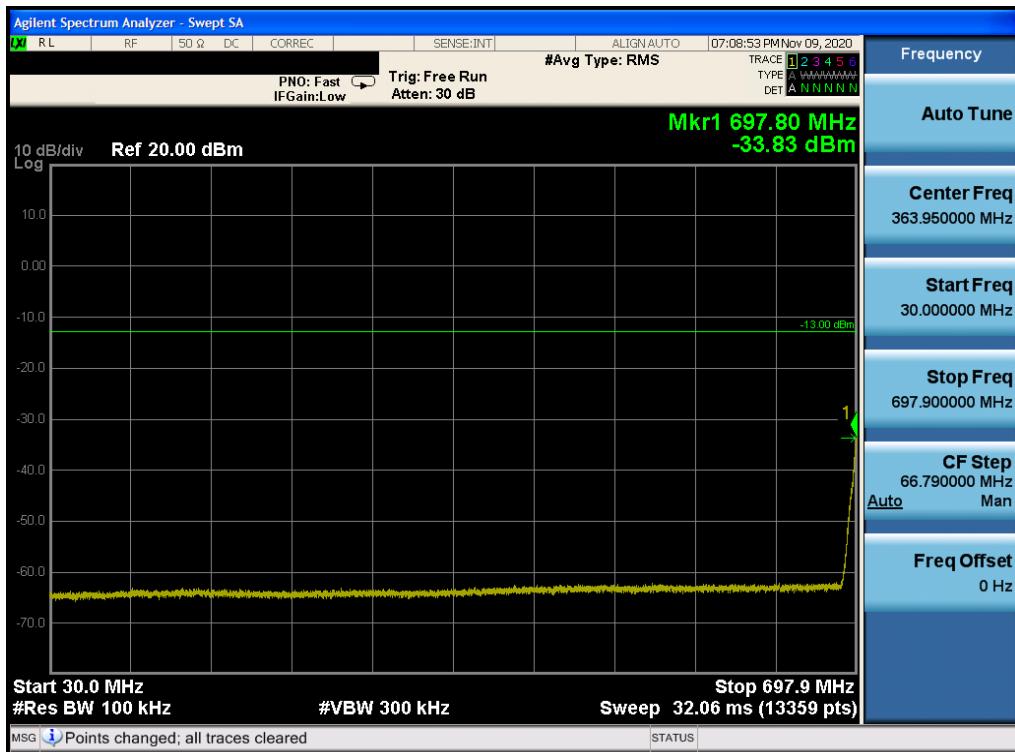
FCC ID: BCGA2379	PCTEST Proud to be part of 		PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020005-04-R1.BCG	Test Dates: 12/15/2020 - 02/20/2021	EUT Type: Tablet Device		Page 82 of 267



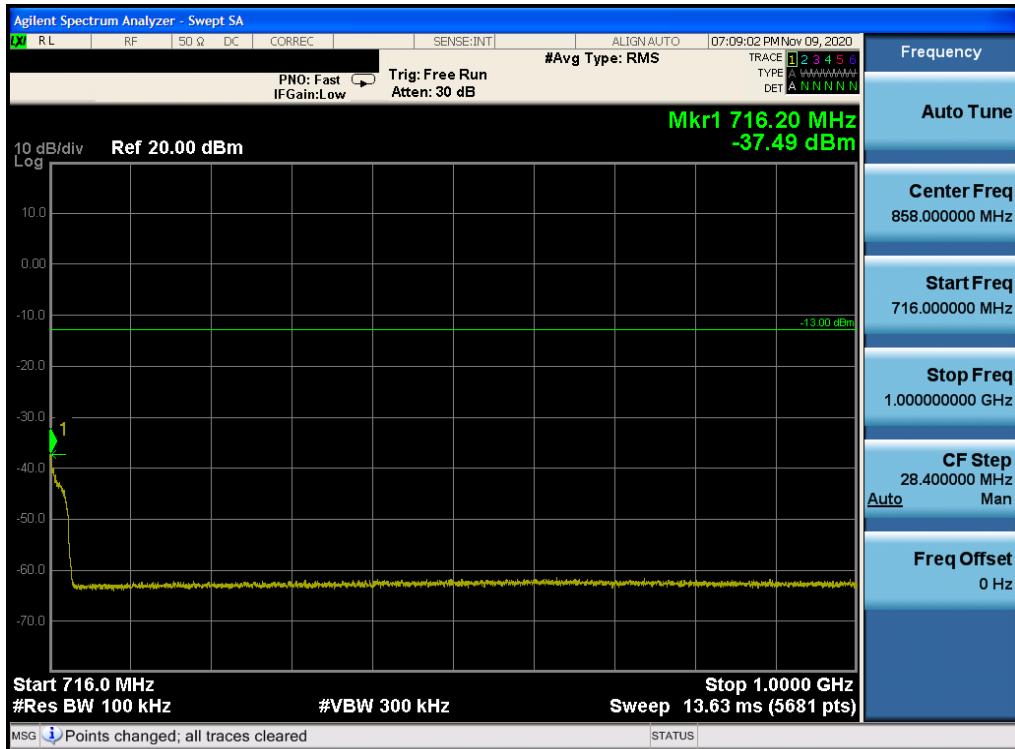
Plot 7-129. CSE (LTE Band 66/4 - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: BCGA2379	PCTEST Proud to be part of 		PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020005-04-R1.BCG	Test Dates: 12/15/2020 - 02/20/2021	EUT Type: Tablet Device		Page 83 of 267

LTE Band 12/17

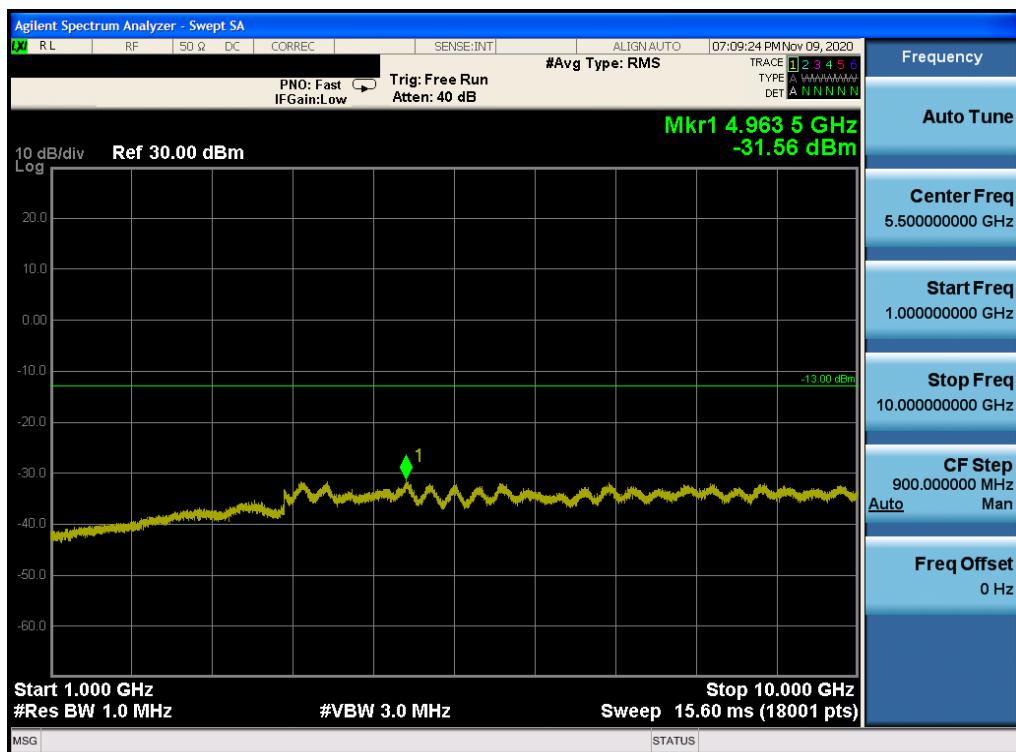


Plot 7-130. CSE (LTE Band 12/17 - 10MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

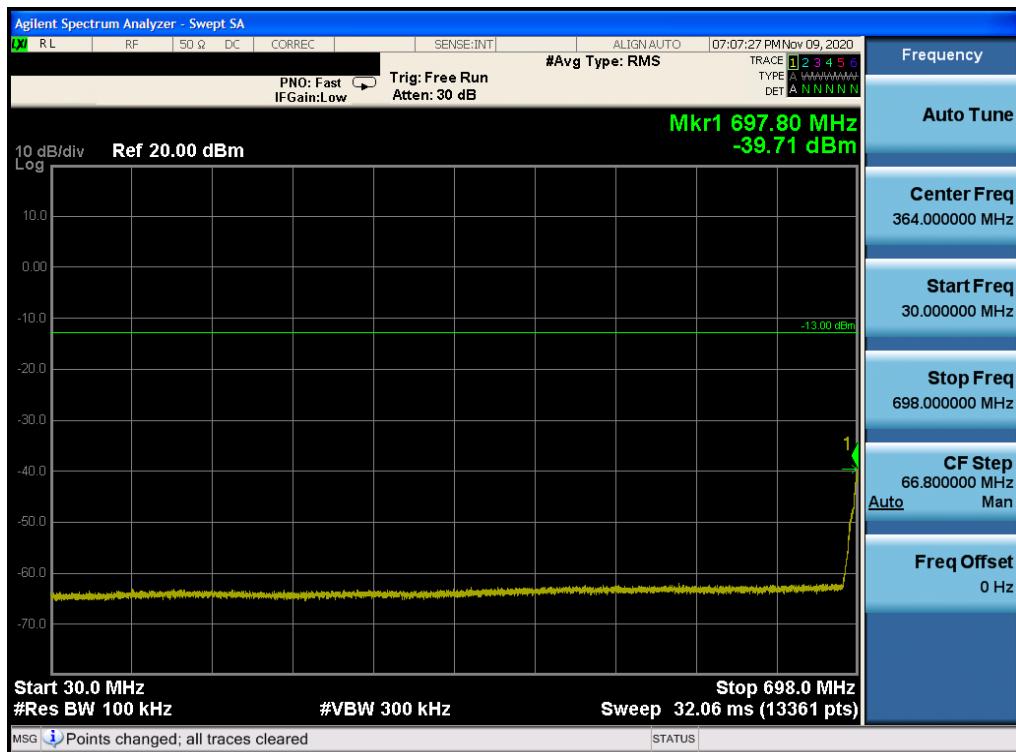


Plot 7-131. CSE (LTE Band 12/17 - 10MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

FCC ID: BCGA2379	 PCTEST Proud to be part of 		PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020005-04-R1.BCG	Test Dates: 12/15/2020 - 02/20/2021	EUT Type: Tablet Device		Page 84 of 267

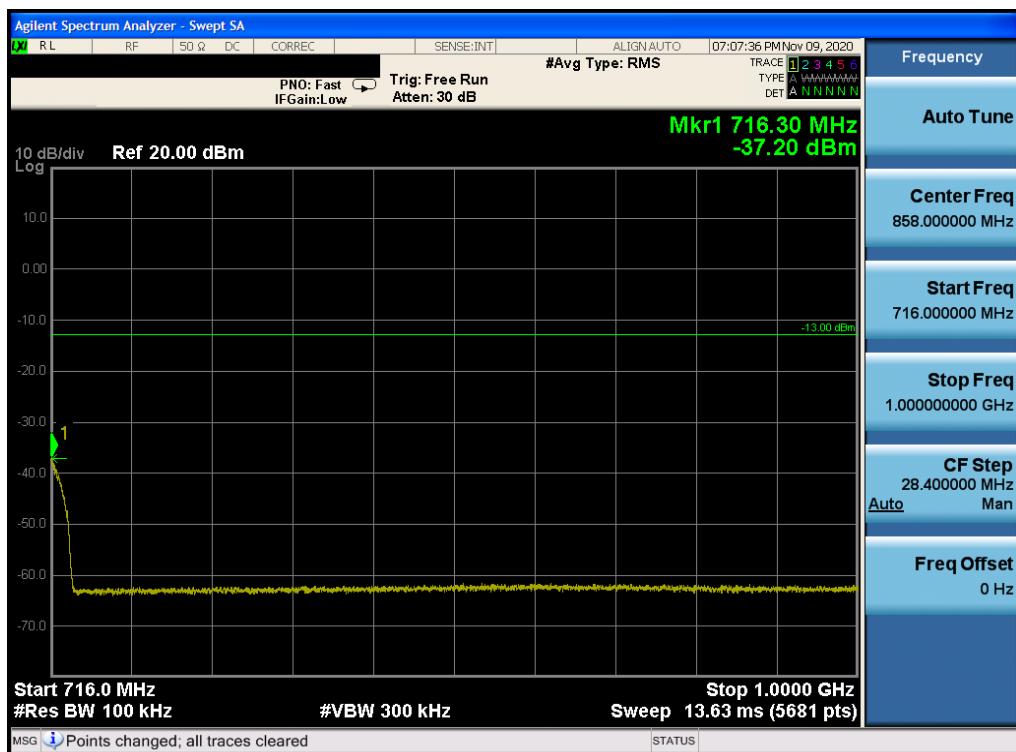


Plot 7-132. CSE (LTE Band 12/17 - 10MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

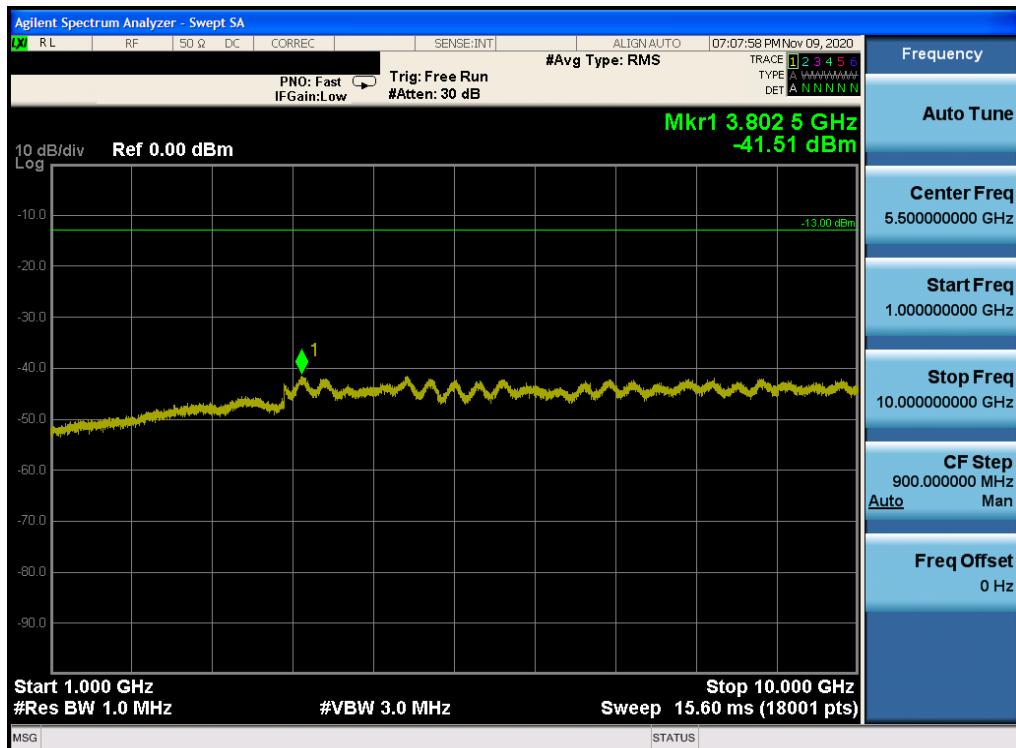


Plot 7-133. CSE (LTE Band 12/17 - 10MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: BCGA2379	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2101020005-04-R1.BCG	Test Dates: 12/15/2020 - 02/20/2021	EUT Type: Tablet Device	Page 85 of 267

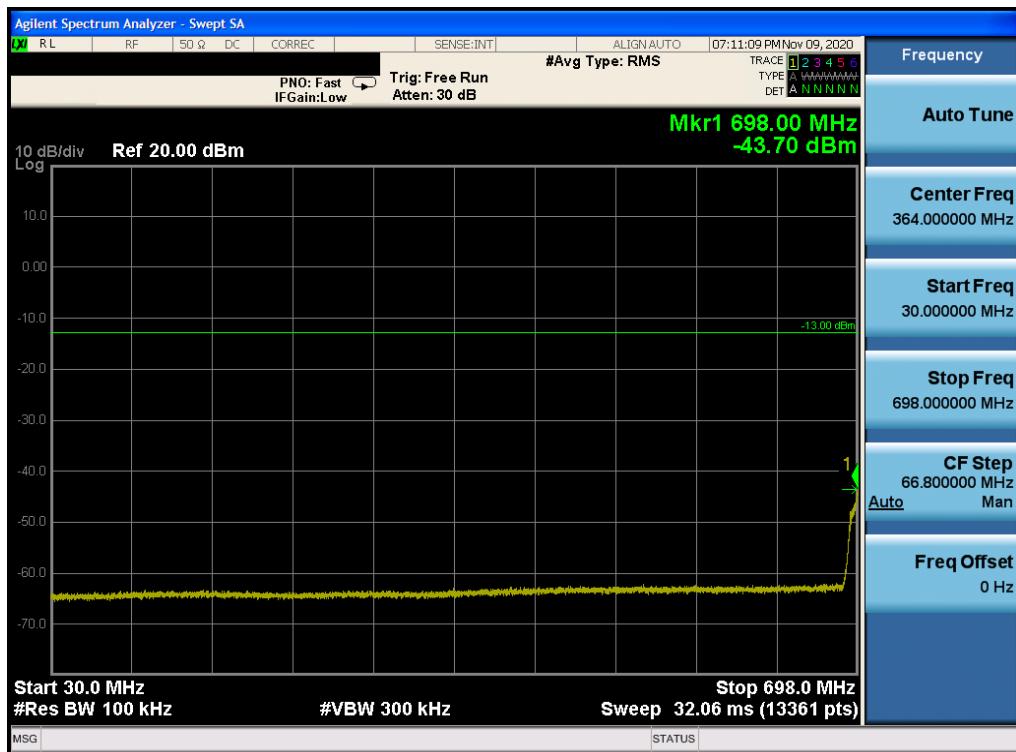


Plot 7-134. CSE (LTE Band 12/17 - 10MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

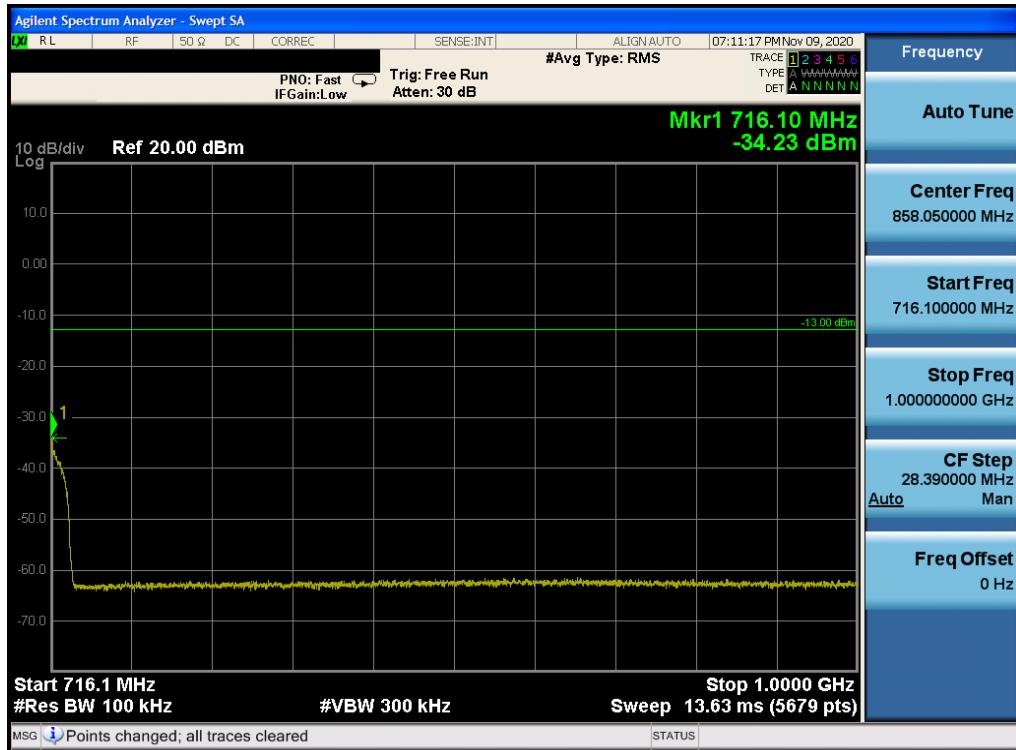


Plot 7-135. CSE (LTE Band 12/17 - 10MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: BCGA2379	PCTEST Proud to be part of 			PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020005-04-R1.BCG	Test Dates: 12/15/2020 - 02/20/2021	EUT Type: Tablet Device			Page 86 of 267

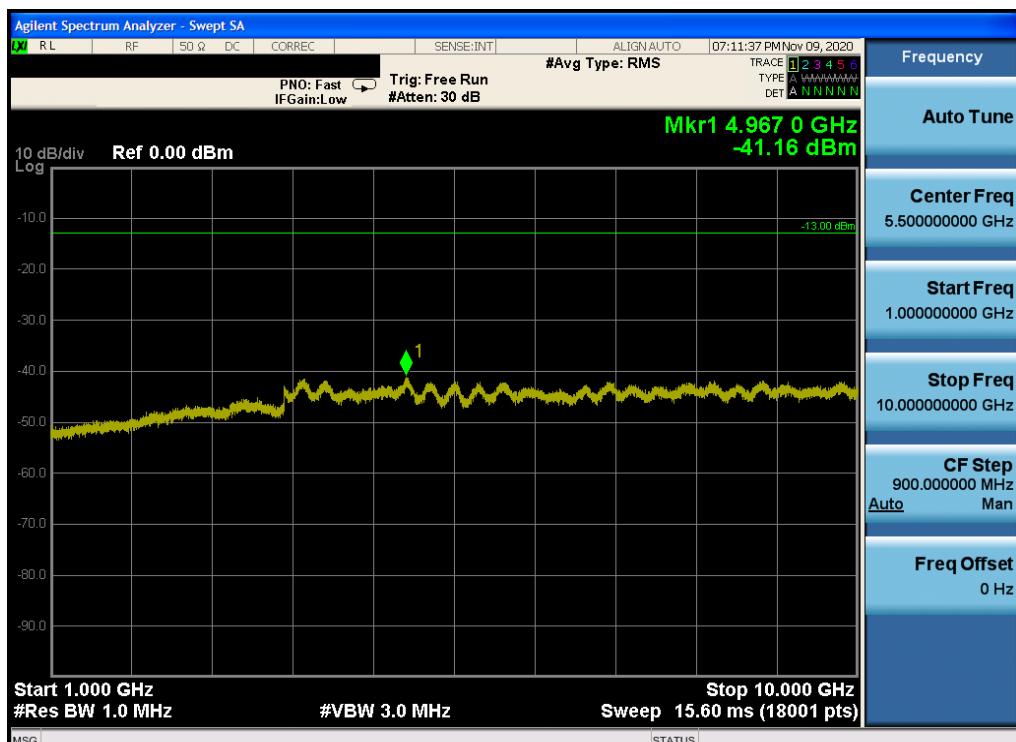


Plot 7-136. CSE (LTE Band 12/17 - 10MHz QPSK - RB Size 1, RB Offset 0 - High Channel)



Plot 7-137. CSE (LTE Band 12/17 - 10MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

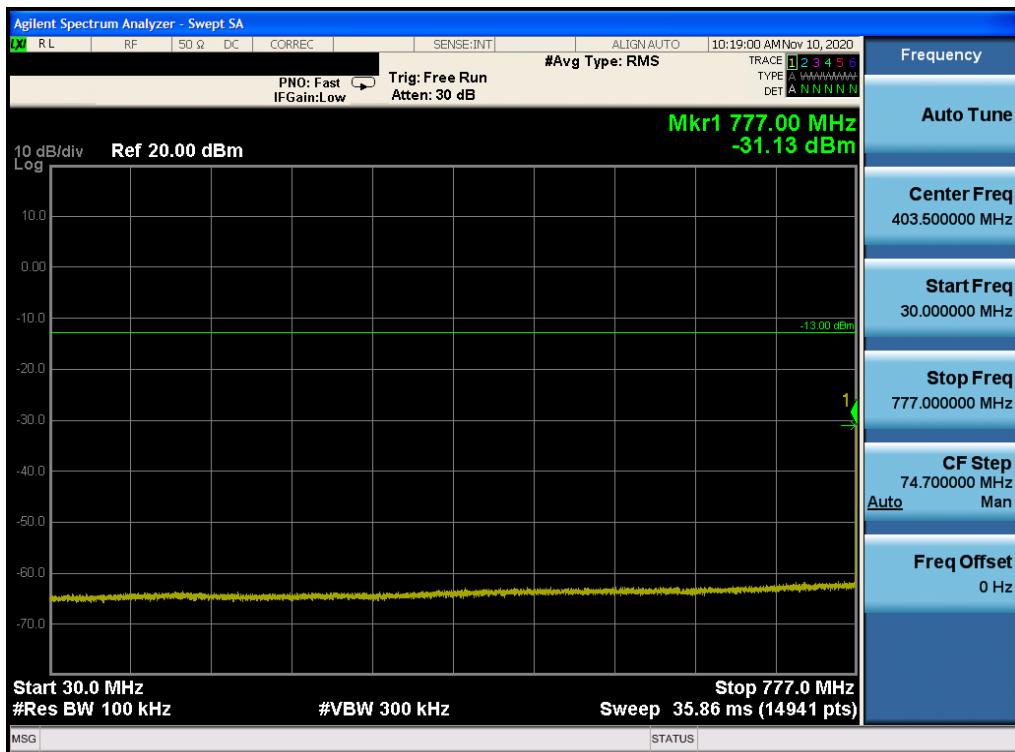
FCC ID: BCGA2379	PCTEST Proud to be part of 		PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020005-04-R1.BCG	Test Dates: 12/15/2020 - 02/20/2021	EUT Type: Tablet Device		Page 87 of 267



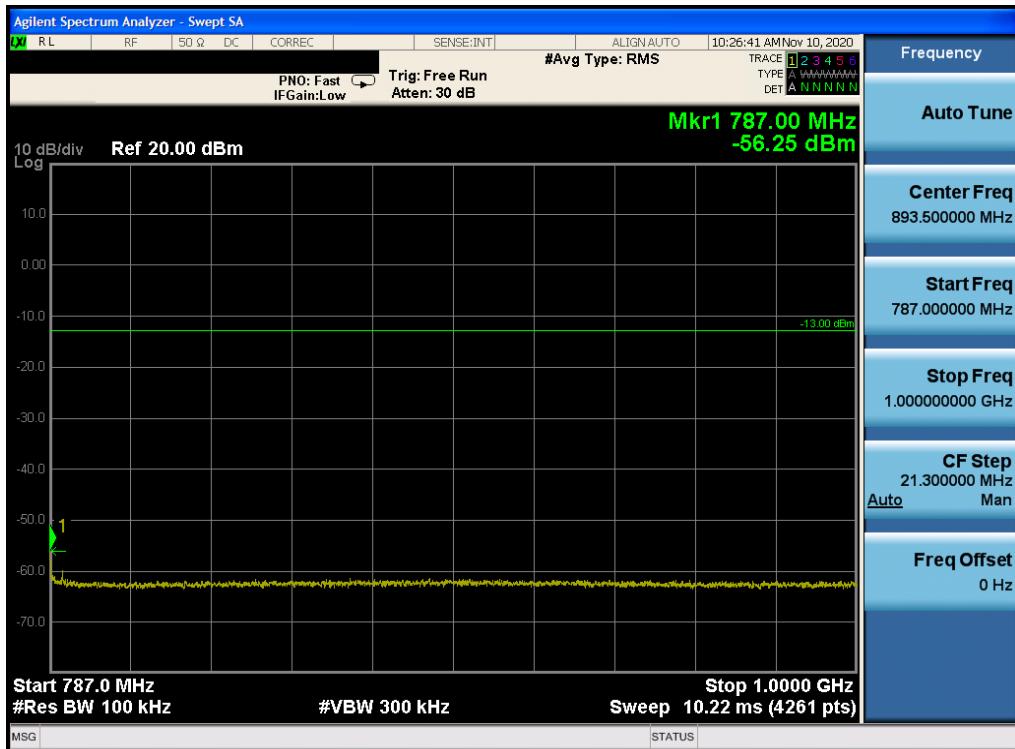
Plot 7-138. CSE (LTE Band 12/17 - 10MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: BCGA2379	PCTEST Proud to be part of 			PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020005-04-R1.BCG	Test Dates: 12/15/2020 - 02/20/2021	EUT Type: Tablet Device			Page 88 of 267

LTE Band 13

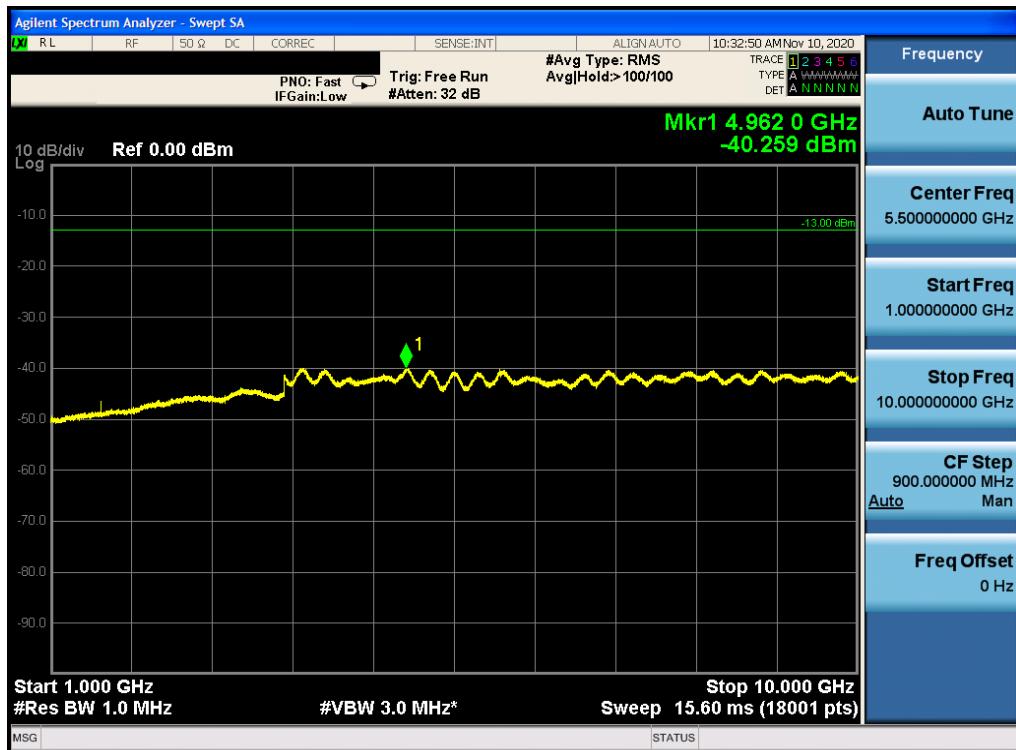


Plot 7-139. CSE (LTE Band 13 - 10MHz QPSK - RB Size 1, RB Offset 0)



Plot 7-140. CSE (LTE Band 13 - 10MHz QPSK - RB Size 1, RB Offset 0)

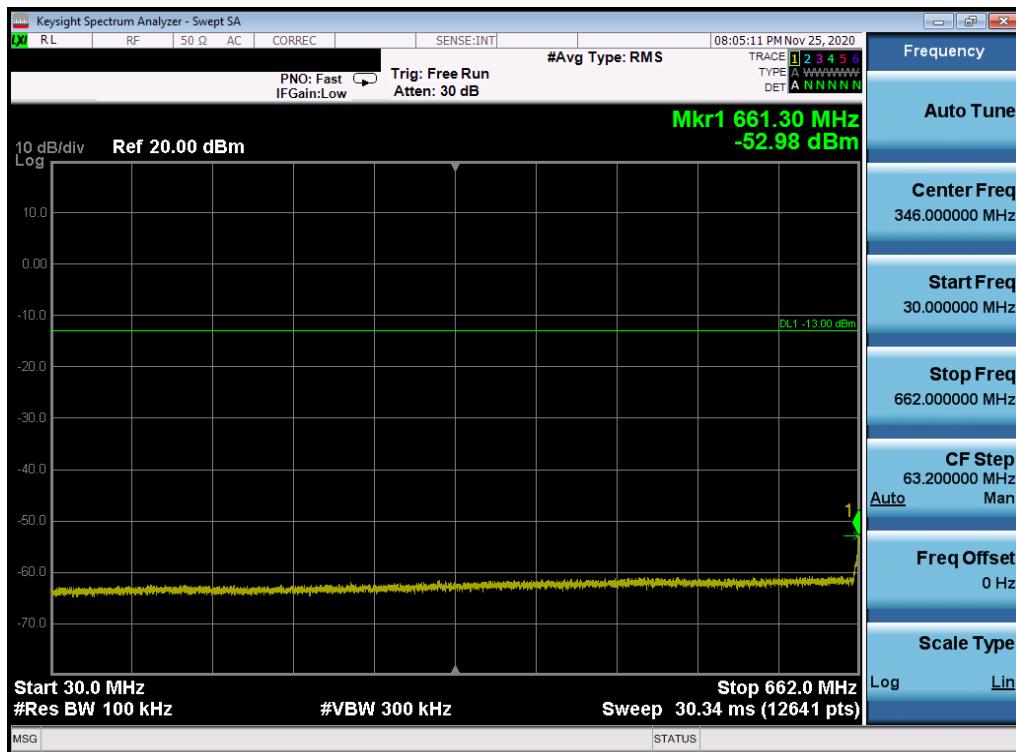
FCC ID: BCGA2379	 PCTEST Proud to be part of 		PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020005-04-R1.BCG	Test Dates: 12/15/2020 - 02/20/2021	EUT Type: Tablet Device		Page 89 of 267



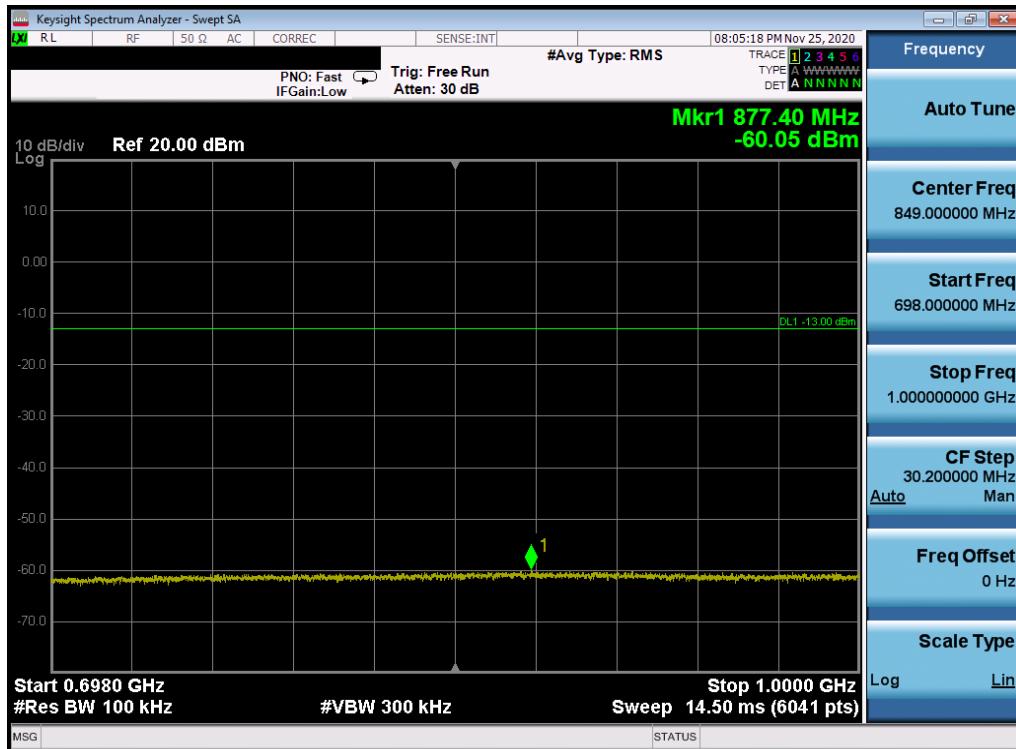
Plot 7-141. CSE (LTE Band 13 - 10MHz QPSK - RB Size 1, RB Offset 0)

FCC ID: BCGA2379	PCTEST Proud to be part of 		PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020005-04-R1.BCG	Test Dates: 12/15/2020 - 02/20/2021	EUT Type: Tablet Device		Page 90 of 267

LTE Band 71

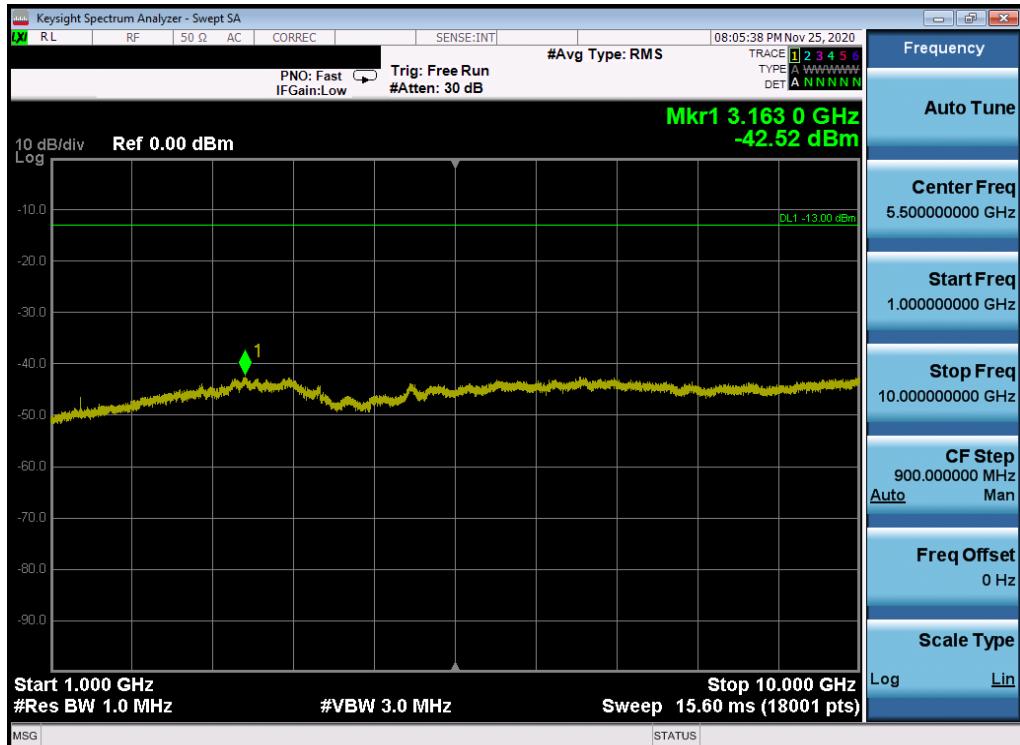


Plot 7-142. CSE (LTE Band 71 - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

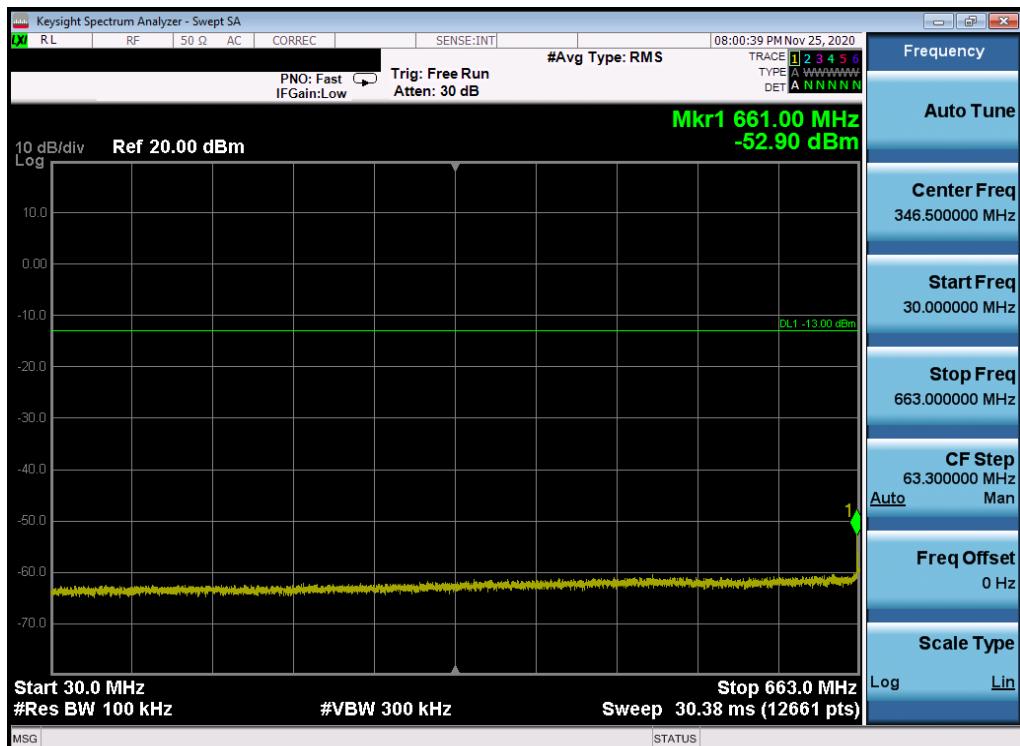


Plot 7-143. CSE (LTE Band 71 - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

FCC ID: BCGA2379	 PCTEST [®] Proud to be part of 		PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020005-04-R1.BCG	Test Dates: 12/15/2020 - 02/20/2021	EUT Type: Tablet Device		Page 91 of 267

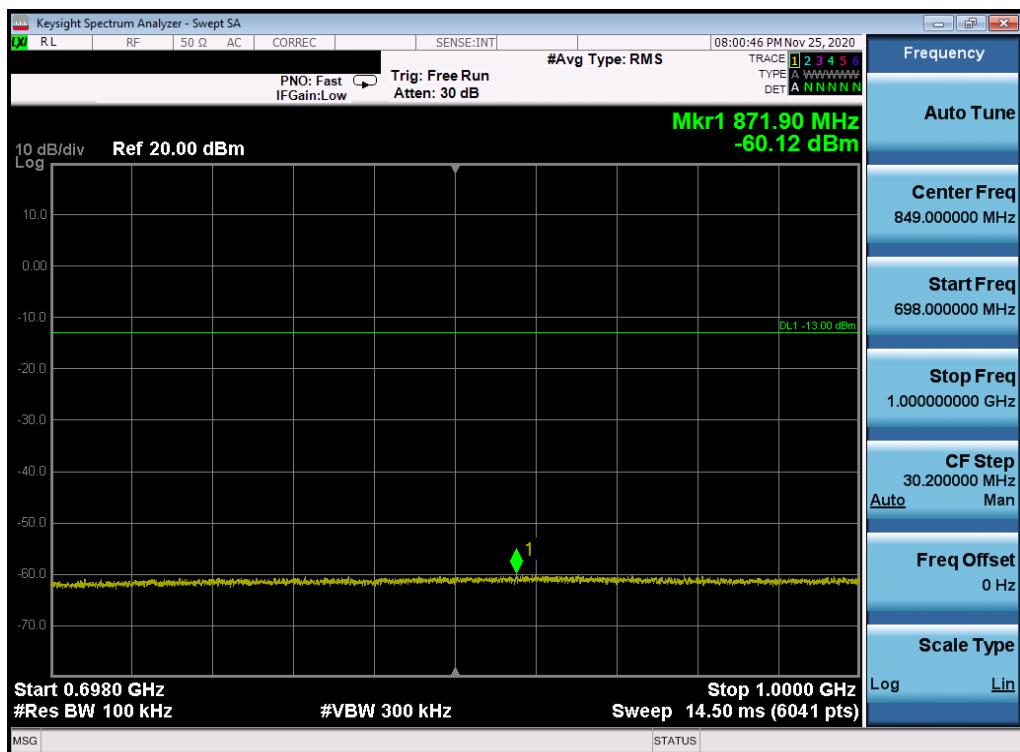


Plot 7-144. CSE (LTE Band 71 - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

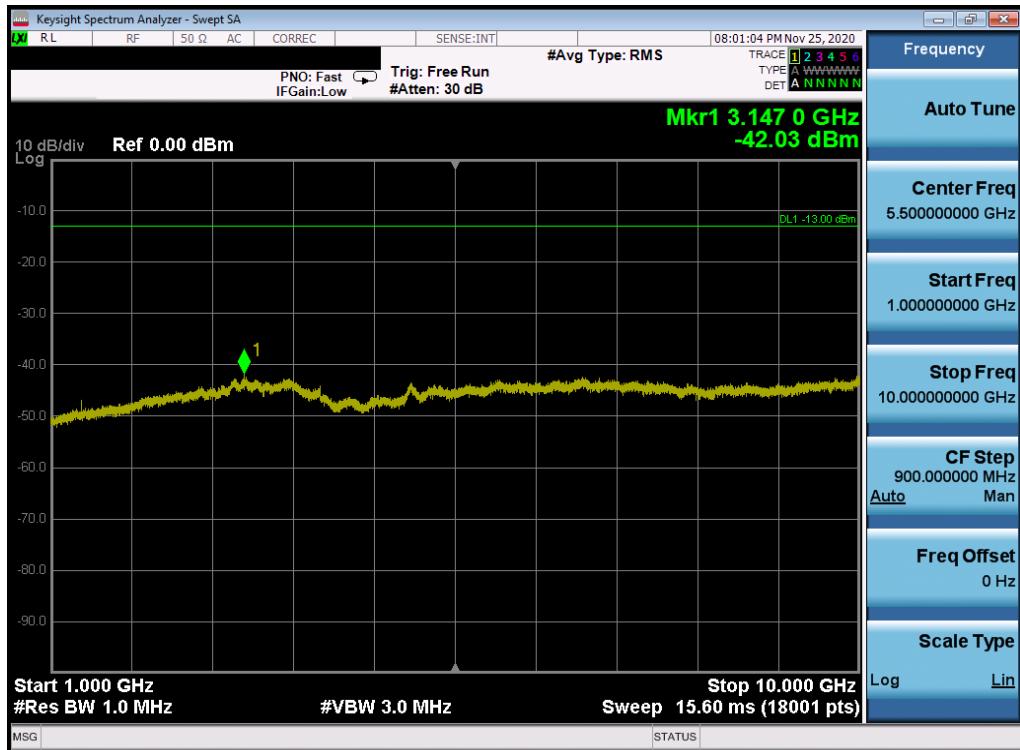


Plot 7-145. CSE (LTE Band 71 - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: BCGA2379	PCTEST Proud to be part of 			PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020005-04-R1.BCG	Test Dates: 12/15/2020 - 02/20/2021	EUT Type: Tablet Device			Page 92 of 267

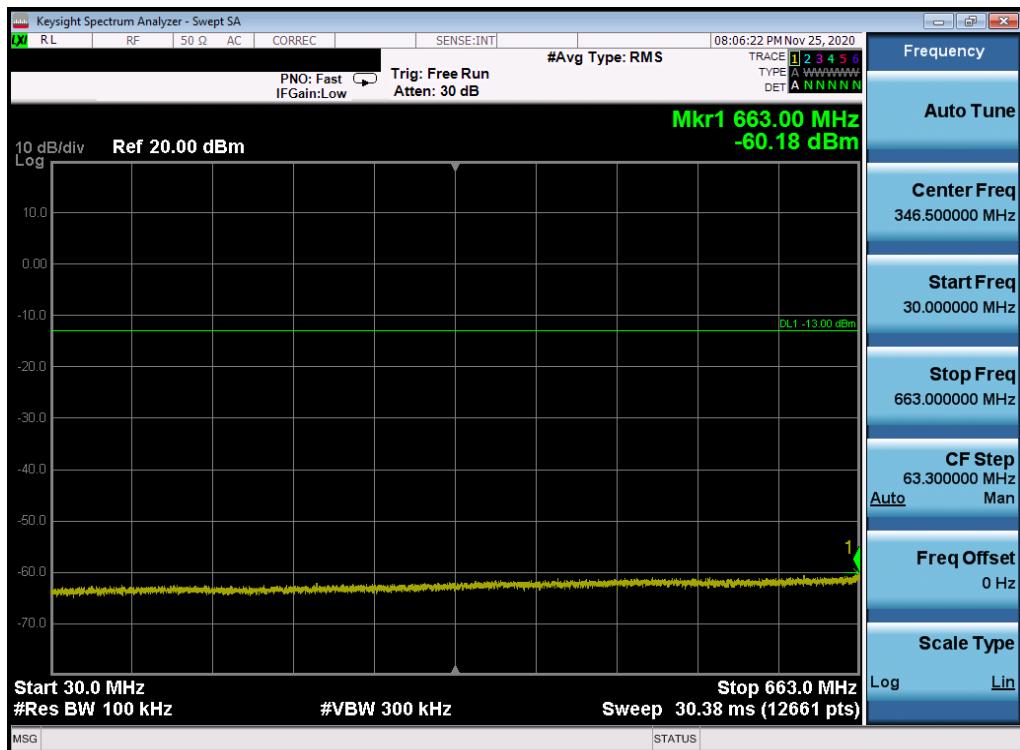


Plot 7-146. CSE (LTE Band 71 - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

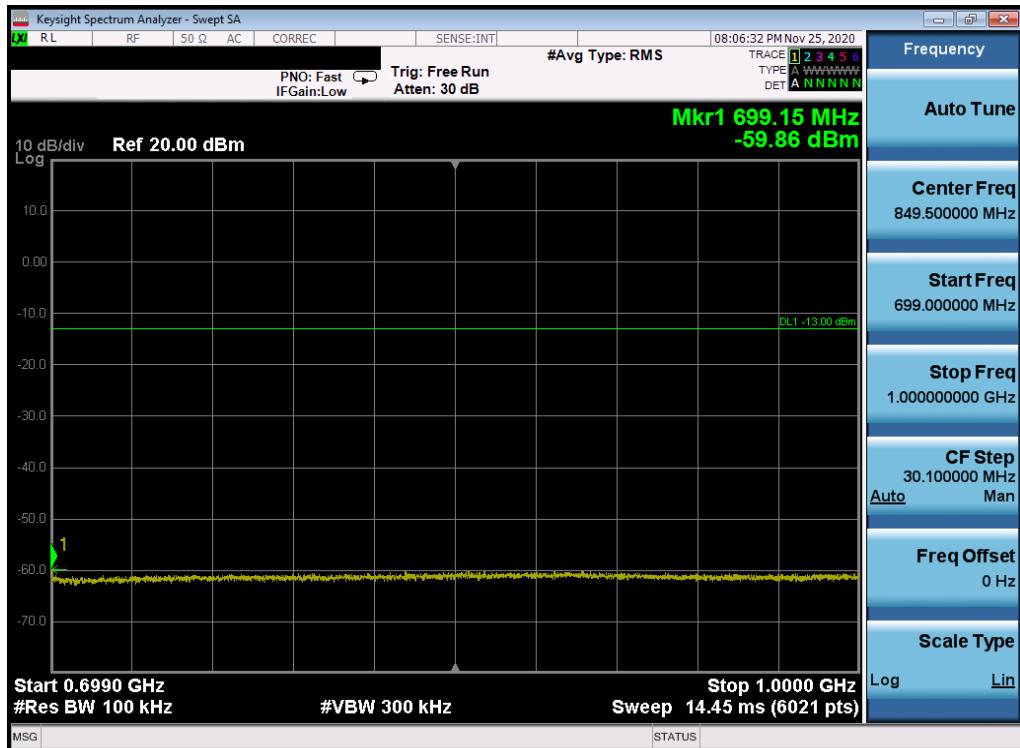


Plot 7-147. CSE (LTE Band 71 - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: BCGA2379	 PCTEST Proud to be part of 	PART 27 MEASUREMENT REPORT	
Test Report S/N: 1C2101020005-04-R1.BCG	Test Dates: 12/15/2020 - 02/20/2021	EUT Type: Tablet Device	Approved by: Quality Manager Page 93 of 267

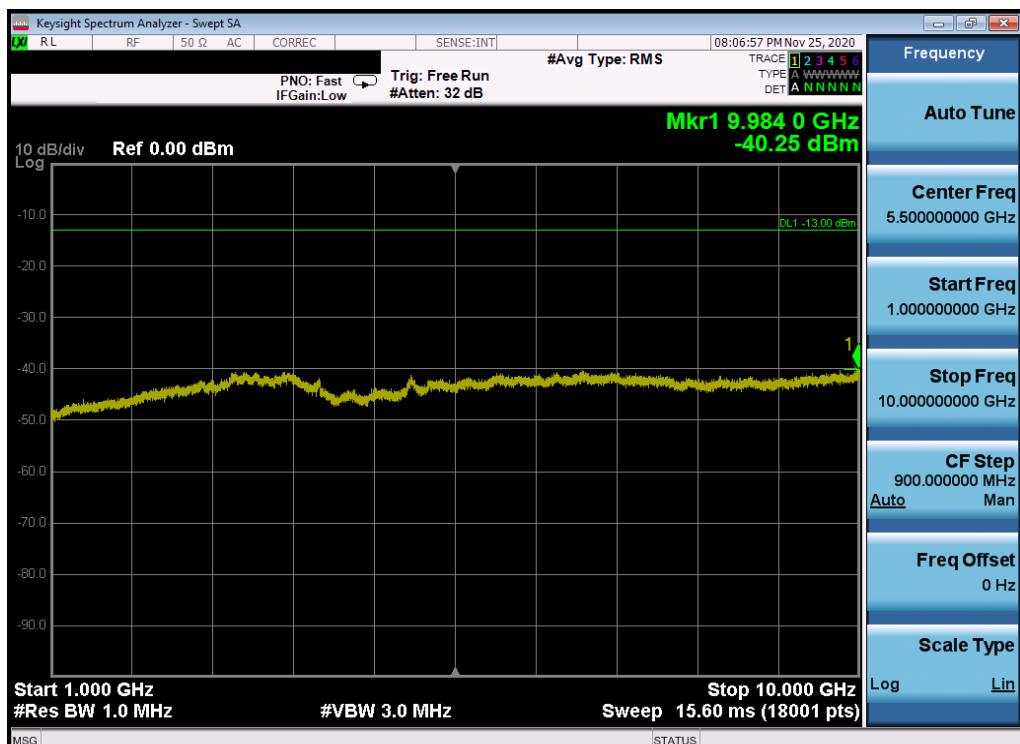


Plot 7-148. CSE (LTE Band 71 - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel)



Plot 7-149. CSE (LTE Band 71 - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

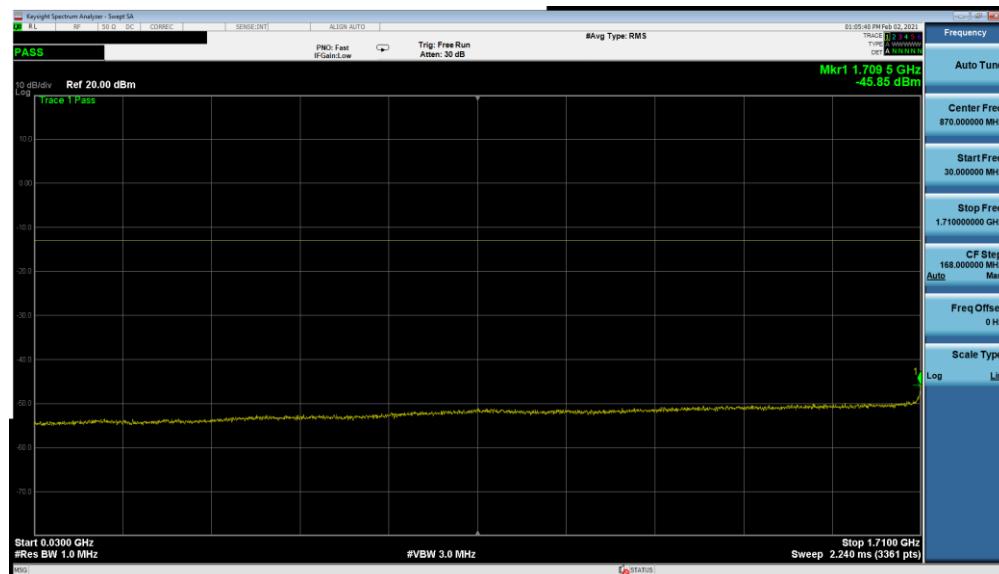
FCC ID: BCGA2379	PCTEST Proud to be part of 			PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020005-04-R1.BCG	Test Dates: 12/15/2020 - 02/20/2021	EUT Type: Tablet Device			Page 94 of 267



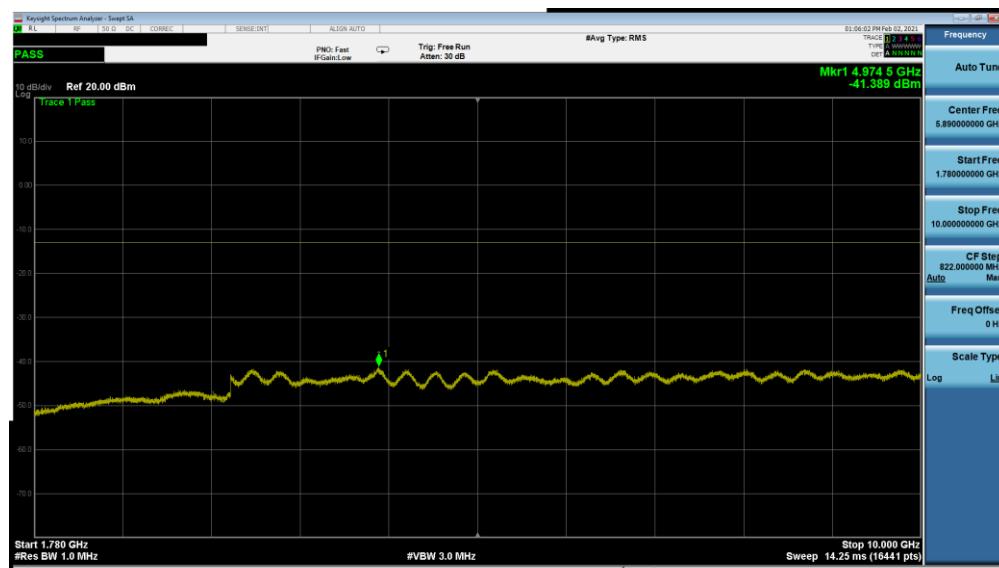
Plot 7-150. CSE (LTE Band 71 - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: BCGA2379	PCTEST Proud to be part of 		PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020005-04-R1.BCG	Test Dates: 12/15/2020 - 02/20/2021	EUT Type: Tablet Device		Page 95 of 267

NR Band n66

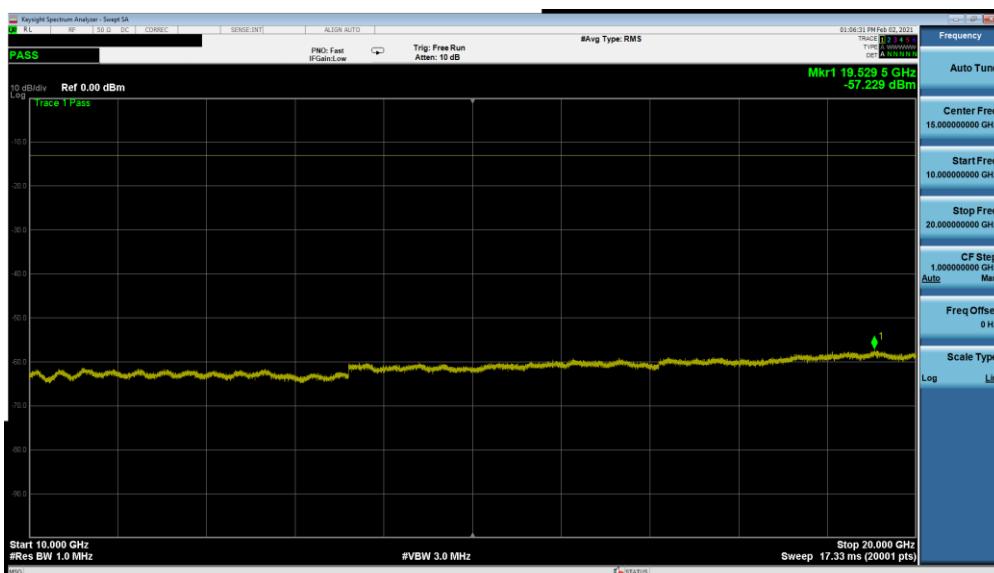


Plot 7-151. CSE (NR Band n66 -20.0MHz DFT-s OFDM $\pi/2$ BPSK - RB Size 1, RB Offset 0 - Low Channel)

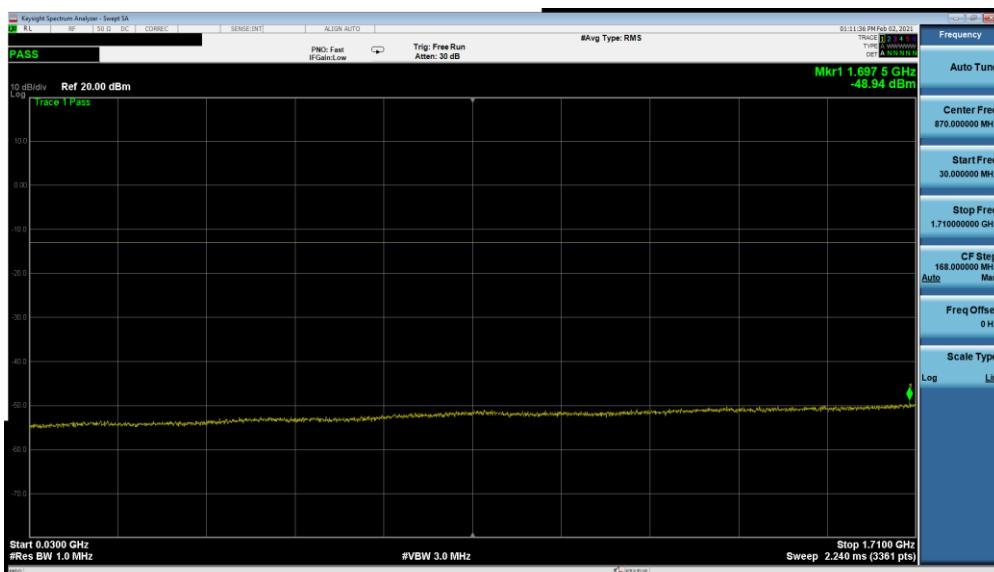


Plot 7-152. CSE (NR Band n66 - 20.0MHz DFT-s OFDM $\pi/2$ BPSK - RB Size 1, RB Offset 0 - Low Channel)

FCC ID: BCGA2379	 PART 27 MEASUREMENT REPORT			Approved by: Quality Manager
Test Report S/N: 1C2101020005-04-R1.BCG	Test Dates: 12/15/2020 - 02/20/2021	EUT Type: Tablet Device		Page 96 of 267

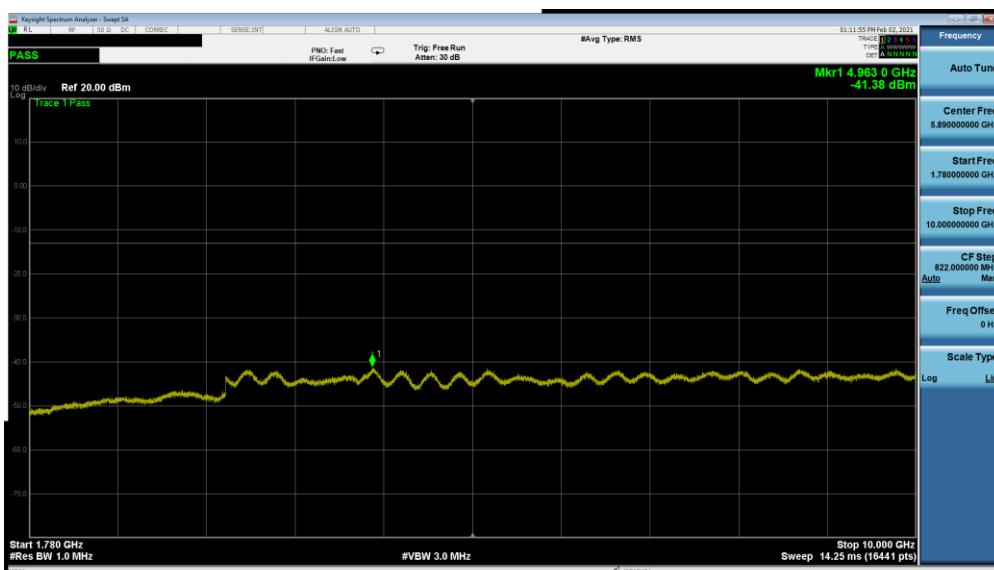


Plot 7-153. CSE (NR Band n66 - 20.0MHz DFT-s OFDM $\pi/2$ BPSK - RB Size 1, RB Offset 0 - Low Channel)

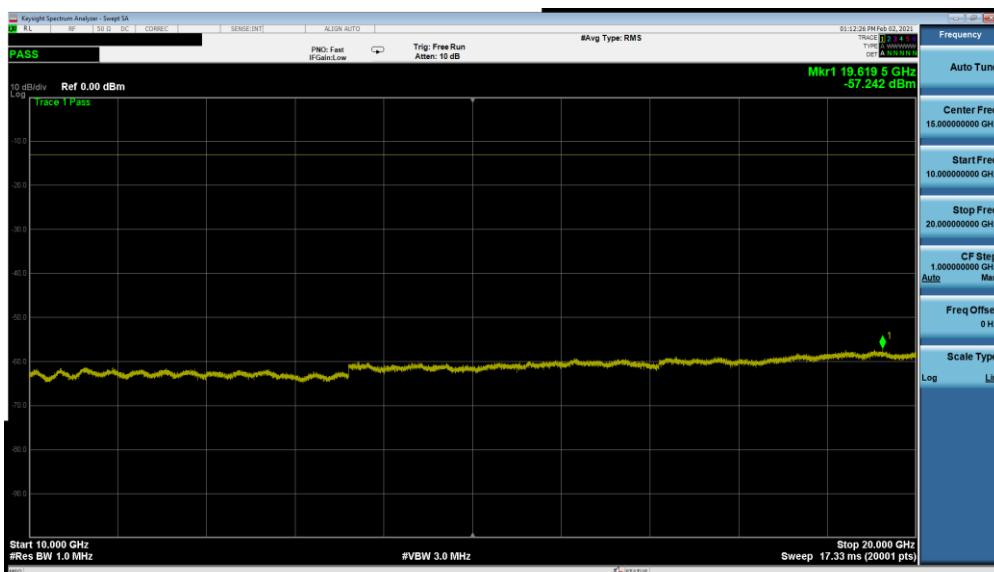


Plot 7-154. CSE (NR Band n66 - 20.0MHz DFT-s OFDM $\pi/2$ BPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: BCGA2379	 PCTEST Proud to be part of 	PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2101020005-04-R1.BCG	Test Dates: 12/15/2020 - 02/20/2021	EUT Type: Tablet Device		Page 97 of 267

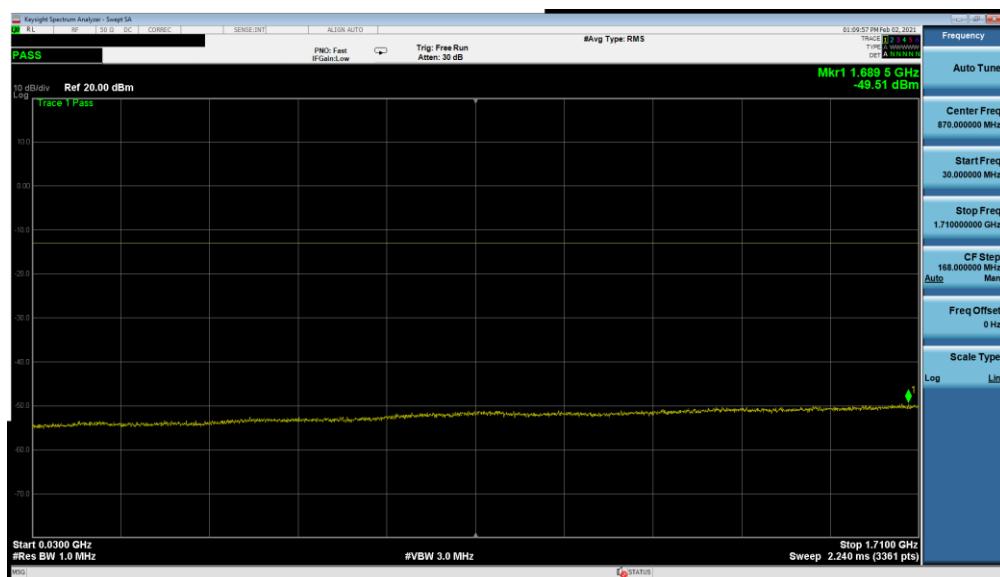


Plot 7-155. CSE (NR Band n66 - 20.0MHz DFT-s OFDM $\pi/2$ BPSK - RB Size 1, RB Offset 0 - Mid Channel)

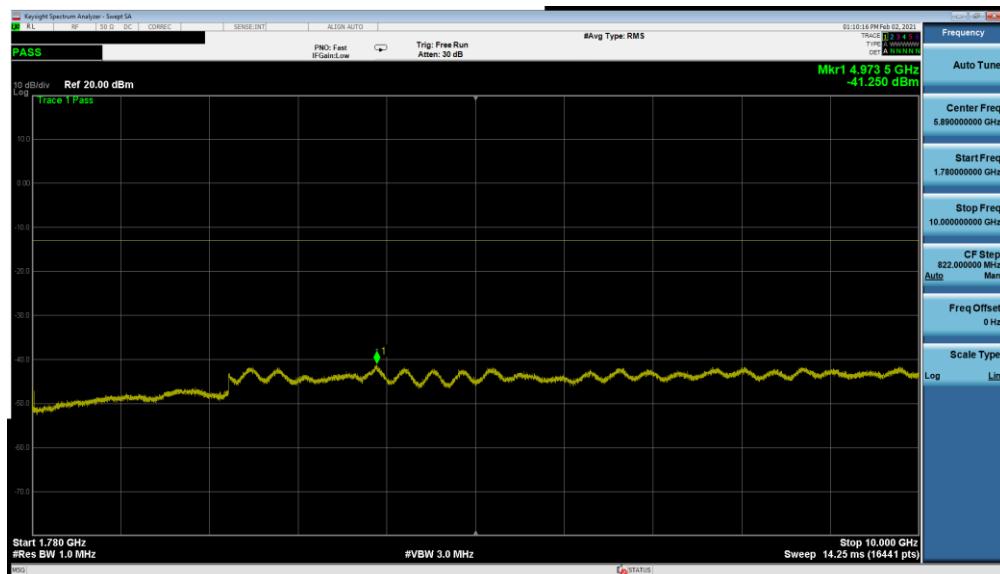


Plot 7-156. CSE (NR Band n66 - 20.0MHz DFT-s OFDM $\pi/2$ BPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: BCGA2379	PCTEST Proud to be part of 			PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2101020005-04-R1.BCG	Test Dates: 12/15/2020 - 02/20/2021	EUT Type: Tablet Device				Page 98 of 267

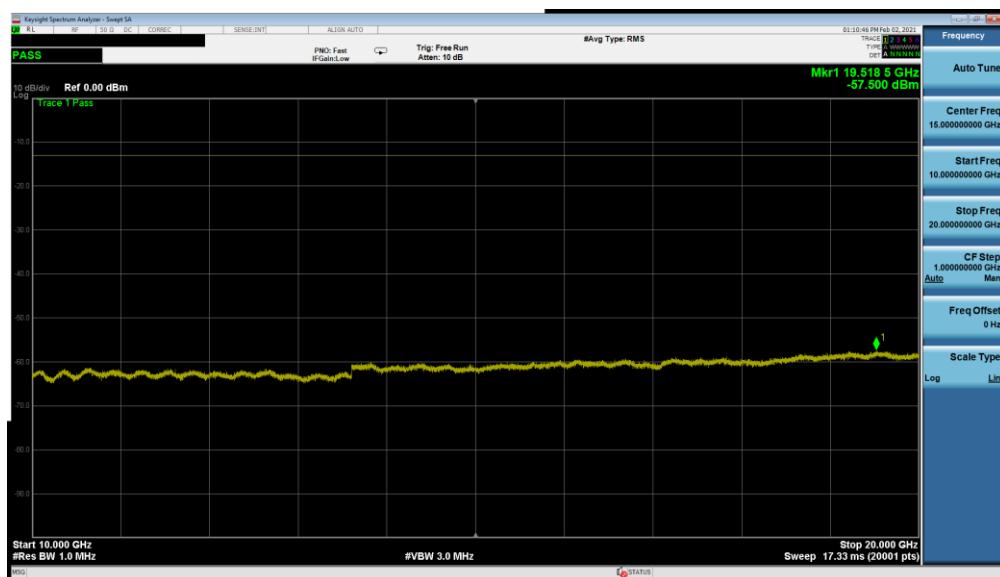


Plot 7-157. CSE (NR Band n66 - 20.0MHz DFT-s OFDM $\pi/2$ BPSK - RB Size 1, RB Offset 0 - High Channel)

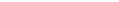


Plot 7-158. CSE (NR Band n66 - 20.0MHz DFT-s OFDM $\pi/2$ BPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: BCGA2379	 PCTEST <small>Proud to be part of element</small>	PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2101020005-04-R1.BCG	Test Dates: 12/15/2020 - 02/20/2021	EUT Type: Tablet Device		Page 99 of 267



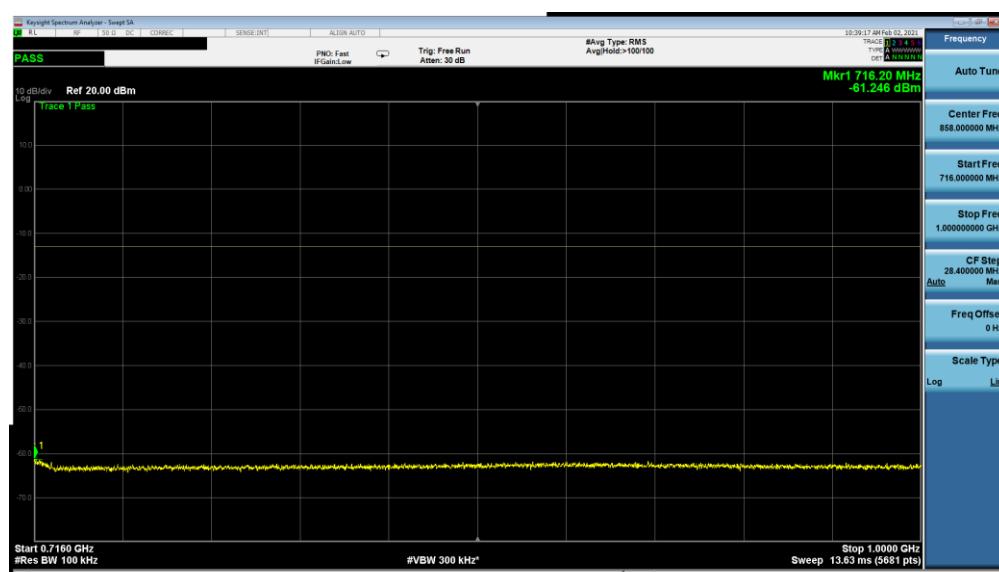
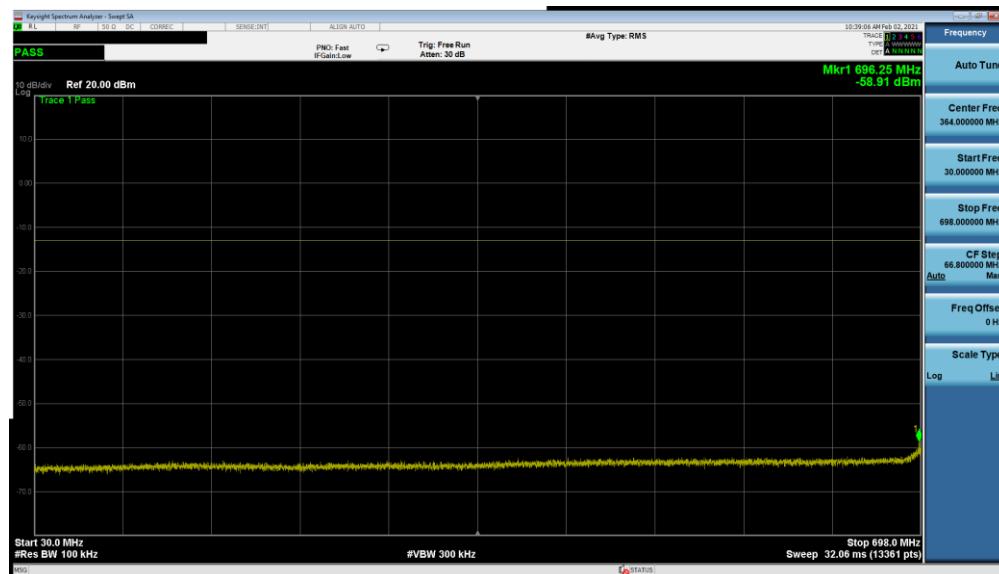
Plot 7-159. CSE (NR Band n66 - 20.0MHz DFT-s OFDM $\pi/2$ BPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: BCGA2379	 Proud to be part of 	PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2101020005-04-R1.BCG	Test Dates: 12/15/2020 - 02/20/2021	EUT Type: Tablet Device	Page 100 of 267	

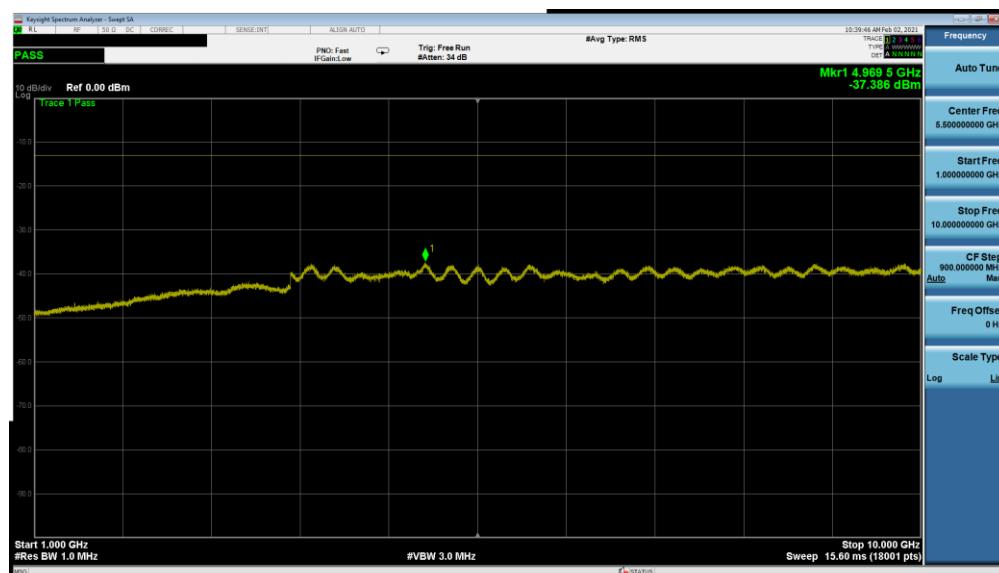
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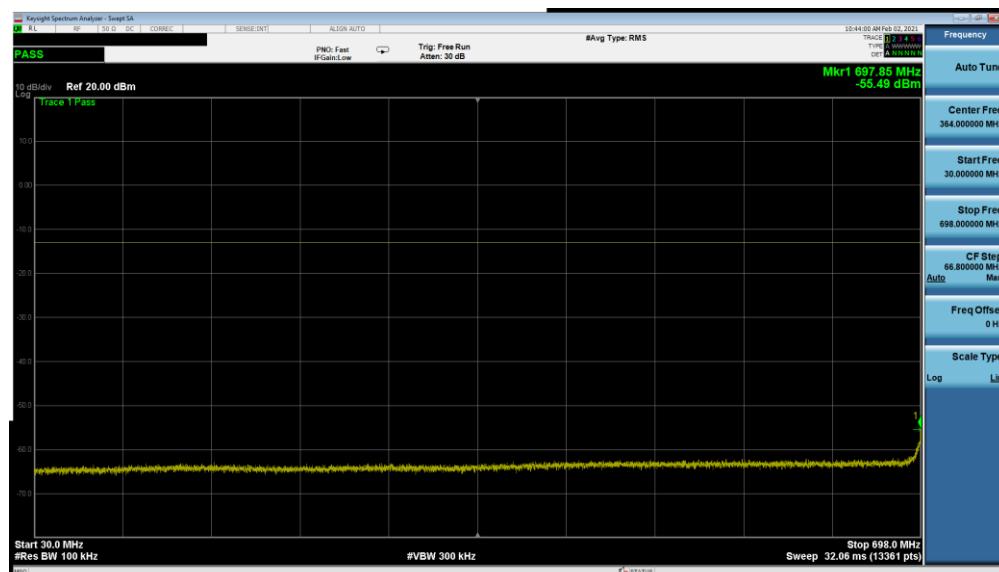
Version 1.2, 11/02/2020

NR Band n12


FCC ID: BCGA2379	 PCTEST Proud to be part of 		PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020005-04-R1.BCG	Test Dates: 12/15/2020 - 02/20/2021	EUT Type: Tablet Device		Page 101 of 267

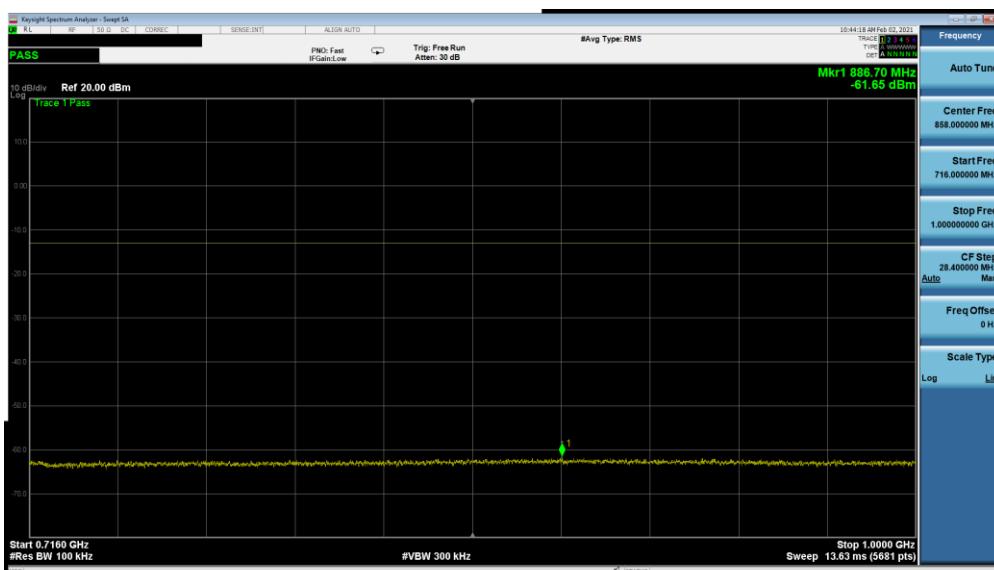


Plot 7-162. CSE (NR Band n12 - 15.0MHz DFT-s OFDM $\pi/2$ BPSK - RB Size 1, RB Offset 0 - Low Channel)

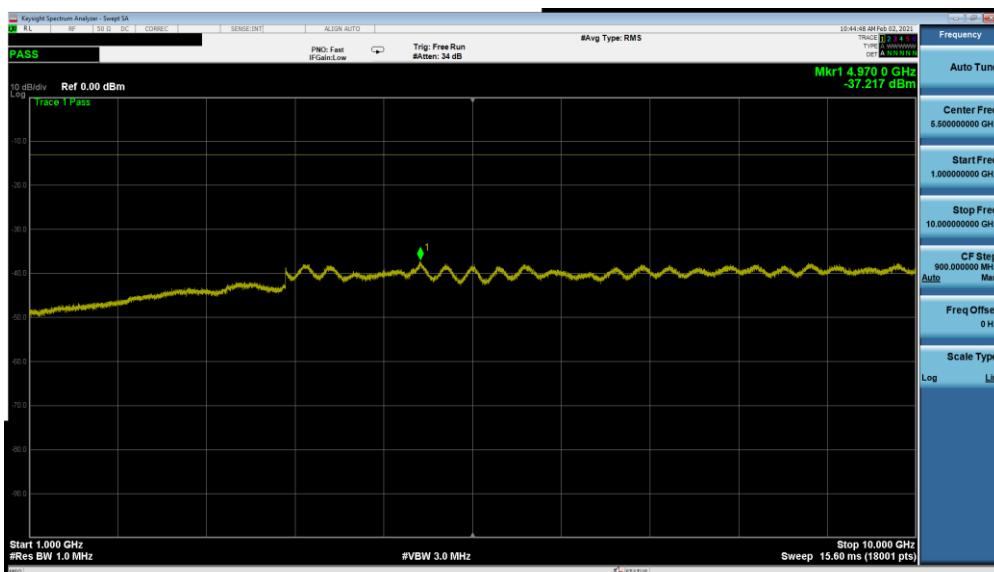


Plot 7-163. CSE (NR Band n12 - 15.0MHz DFT-s OFDM $\pi/2$ BPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: BCGA2379	 PART 27 MEASUREMENT REPORT			Approved by: Quality Manager
Test Report S/N: 1C2101020005-04-R1.BCG	Test Dates: 12/15/2020 - 02/20/2021	EUT Type: Tablet Device		Page 102 of 267

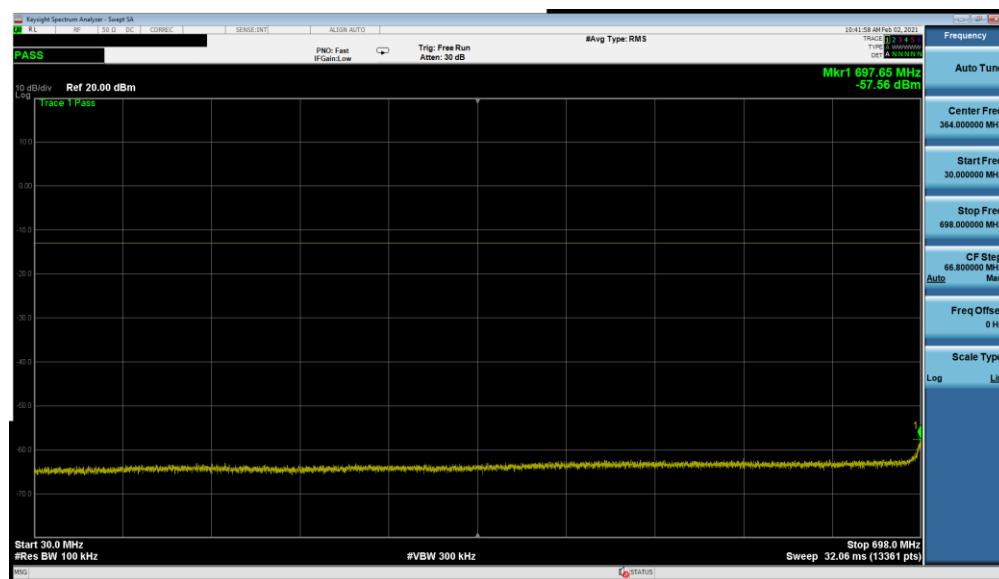


Plot 7-164. CSE (NR Band n12 - 15.0MHz DFT-s OFDM $\pi/2$ BPSK - RB Size 1, RB Offset 0 - Mid Channel)

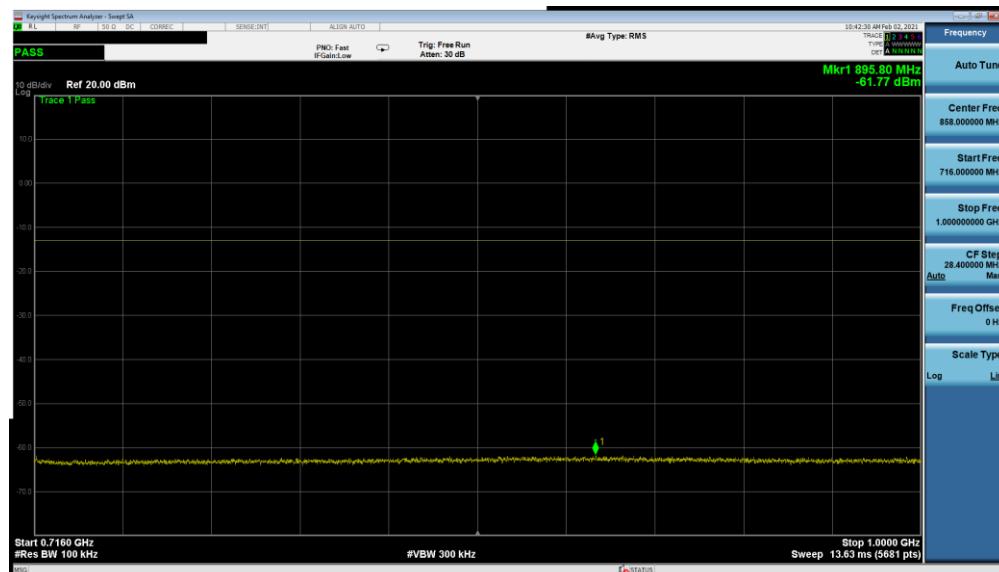


Plot 7-165. CSE (NR Band n12 - 15.0MHz DFT-s OFDM $\pi/2$ BPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: BCGA2379	PCTEST Proud to be part of 			PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2101020005-04-R1.BCG	Test Dates: 12/15/2020 - 02/20/2021	EUT Type: Tablet Device				Page 103 of 267

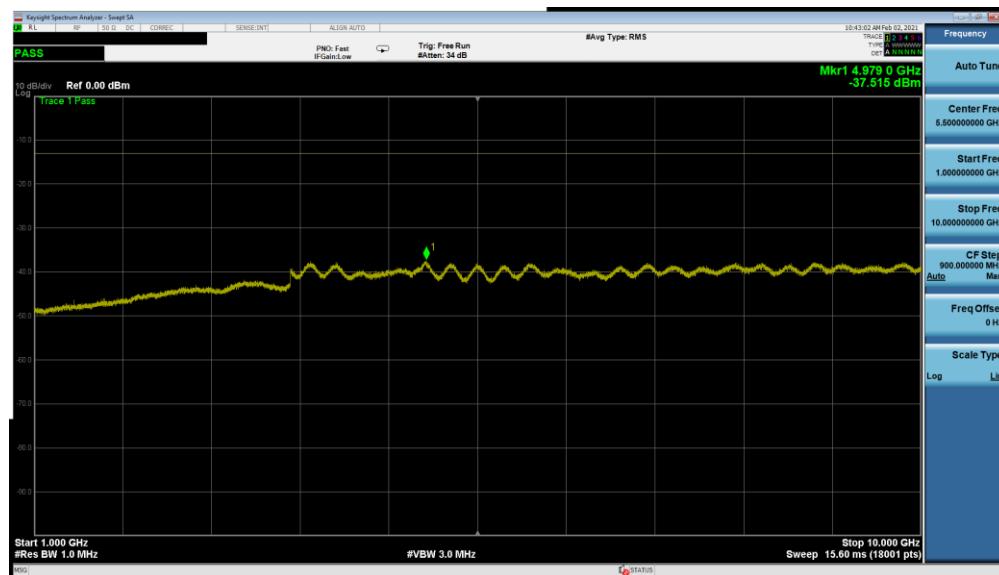


Plot 7-166. CSE (NR Band n12 - 15.0MHz DFT-s OFDM $\pi/2$ BPSK - RB Size 1, RB Offset 0 - High Channel)



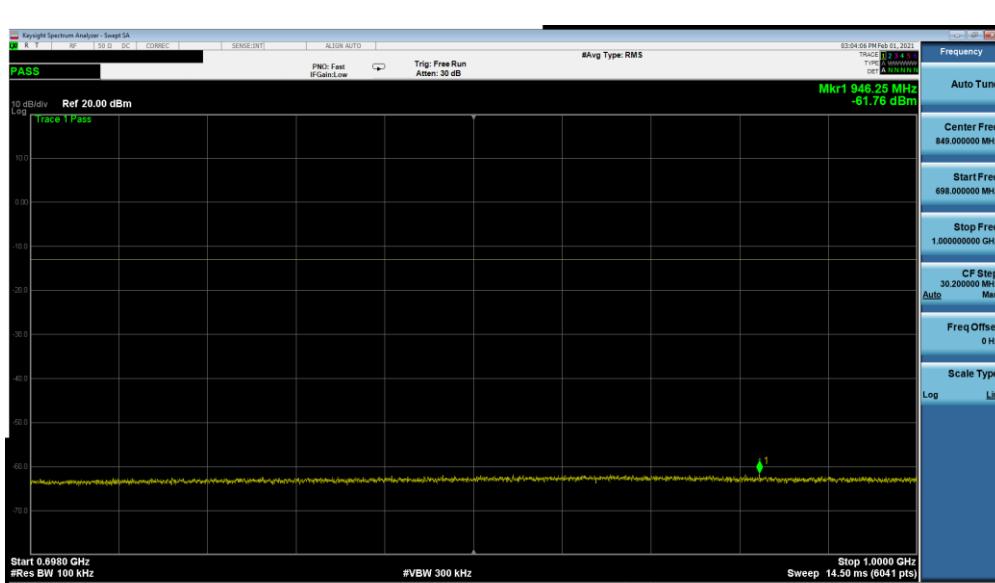
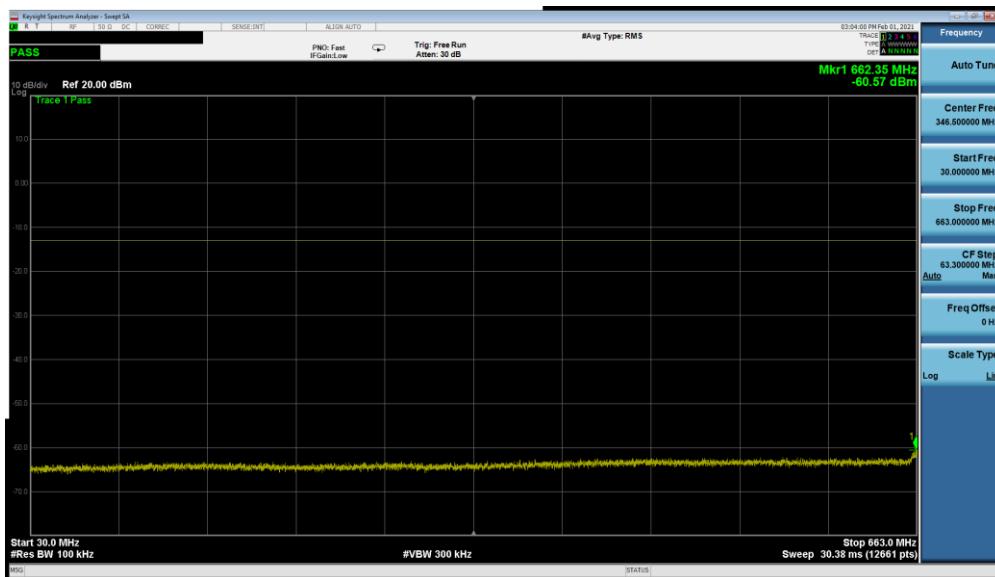
Plot 7-167. CSE (NR Band n12 - 15.0MHz DFT-s OFDM $\pi/2$ BPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: BCGA2379	PCTEST Proud to be part of 			PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020005-04-R1.BCG	Test Dates: 12/15/2020 - 02/20/2021	EUT Type: Tablet Device			Page 104 of 267

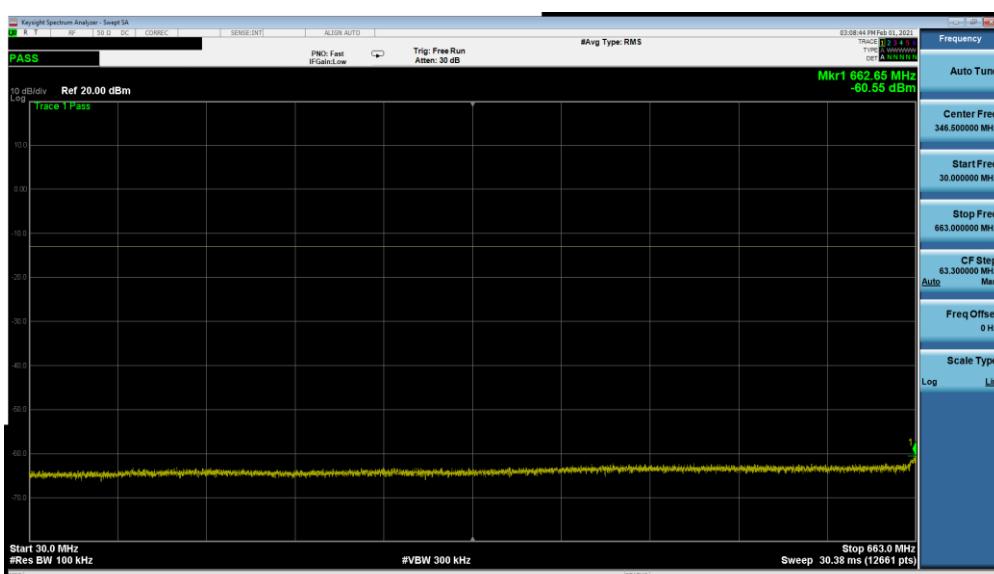
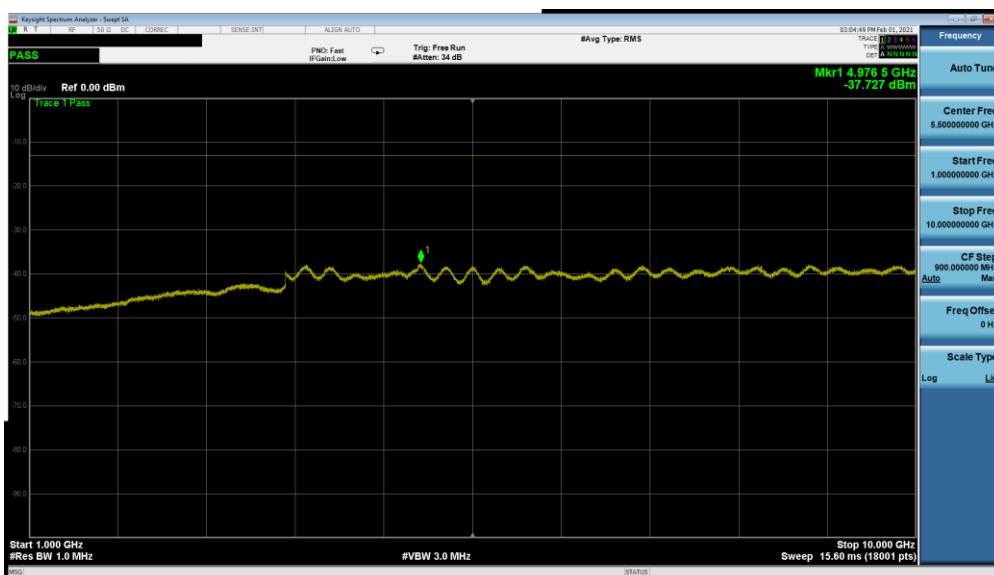


FCC ID: BCGA2379	PCTEST Proud to be part of 			PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
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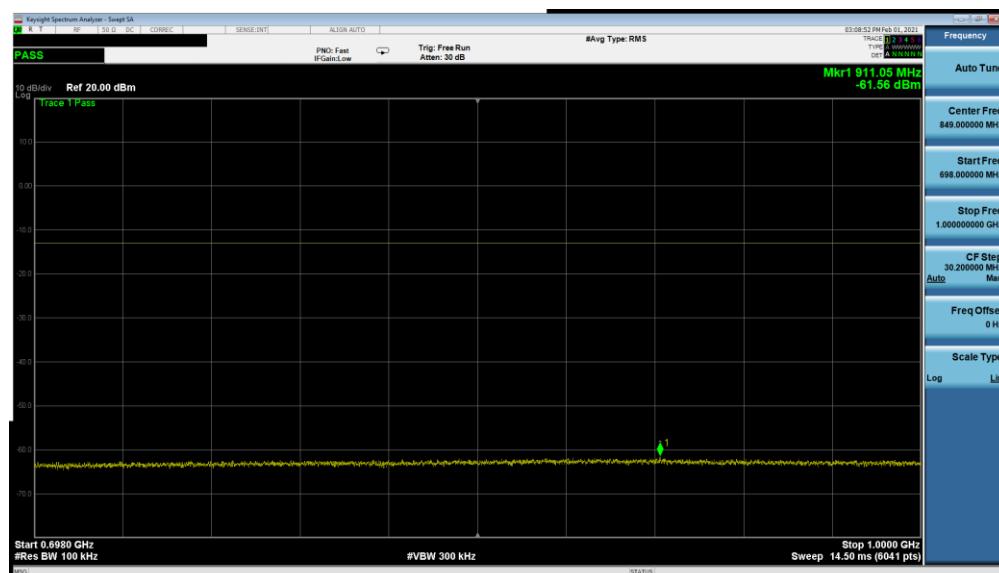
NR Band n71



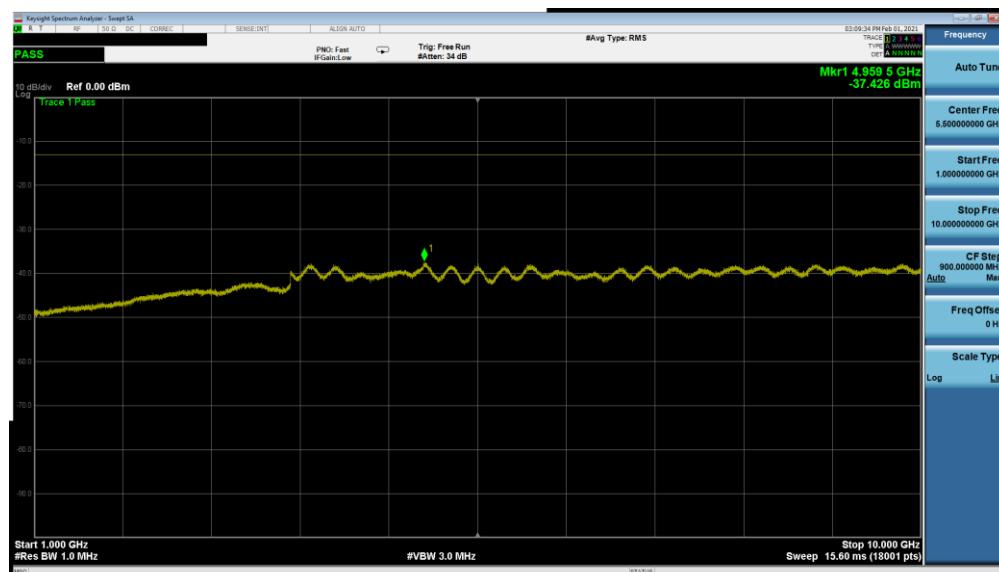
FCC ID: BCGA2379	 PART 27 MEASUREMENT REPORT			Approved by: Quality Manager
Test Report S/N: 1C2101020005-04-R1.BCG	Test Dates: 12/15/2020 - 02/20/2021	EUT Type: Tablet Device		Page 106 of 267



FCC ID: BCGA2379	 PART 27 MEASUREMENT REPORT			Approved by: Quality Manager
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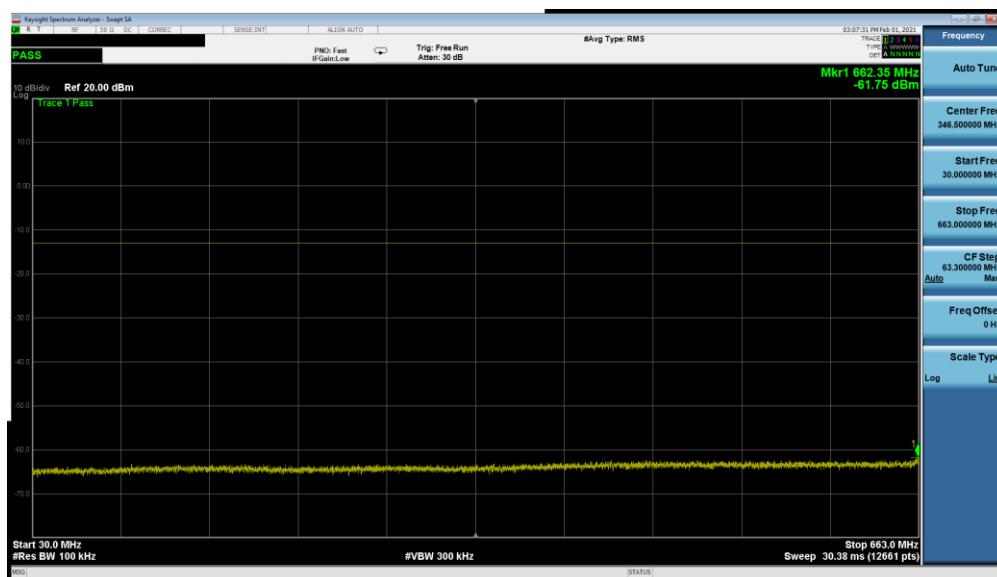


Plot 7-173. CSE (NR Band n71 - 20.0MHz DFT-s OFDM π/2 BPSK - RB Size 1, RB Offset 0 - Mid Channel)

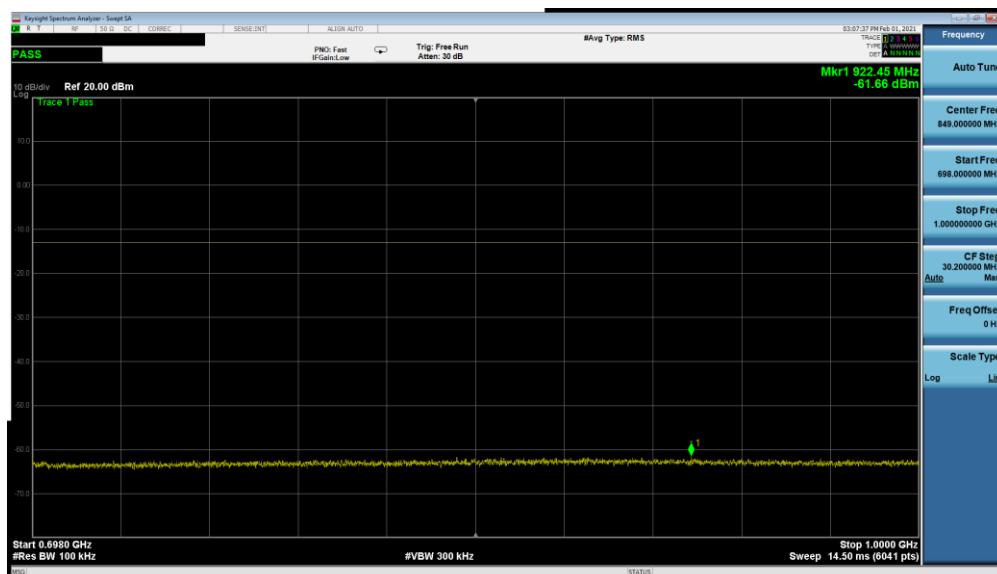


Plot 7-174. CSE (NR Band n71 - 20.0MHz DFT-s OFDM π/2 BPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: BCGA2379	 PART 27 MEASUREMENT REPORT			Approved by: Quality Manager
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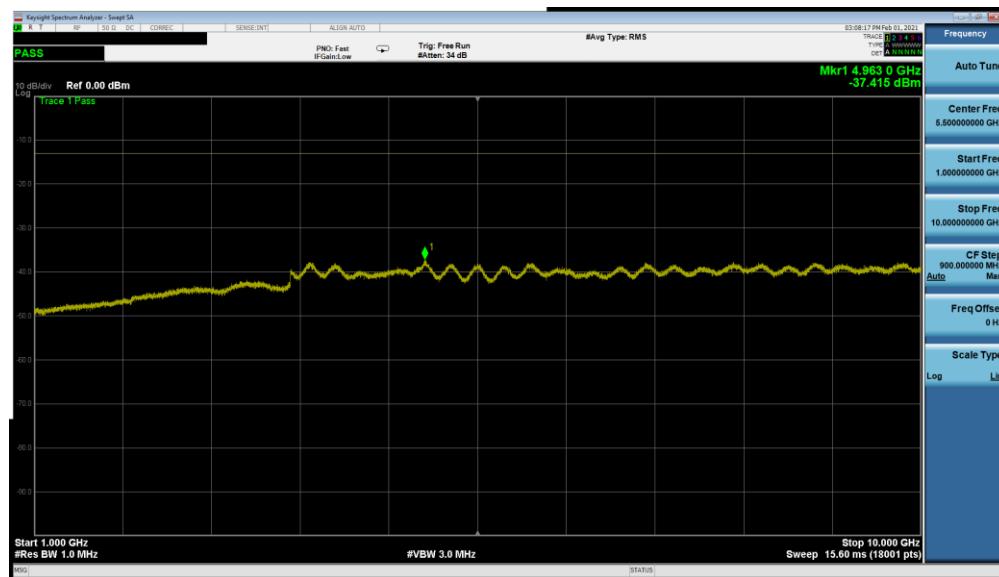


Plot 7-175. CSE (NR Band n71 - 20.0MHz DFT-s OFDM $\pi/2$ BPSK - RB Size 1, RB Offset 0 - High Channel)



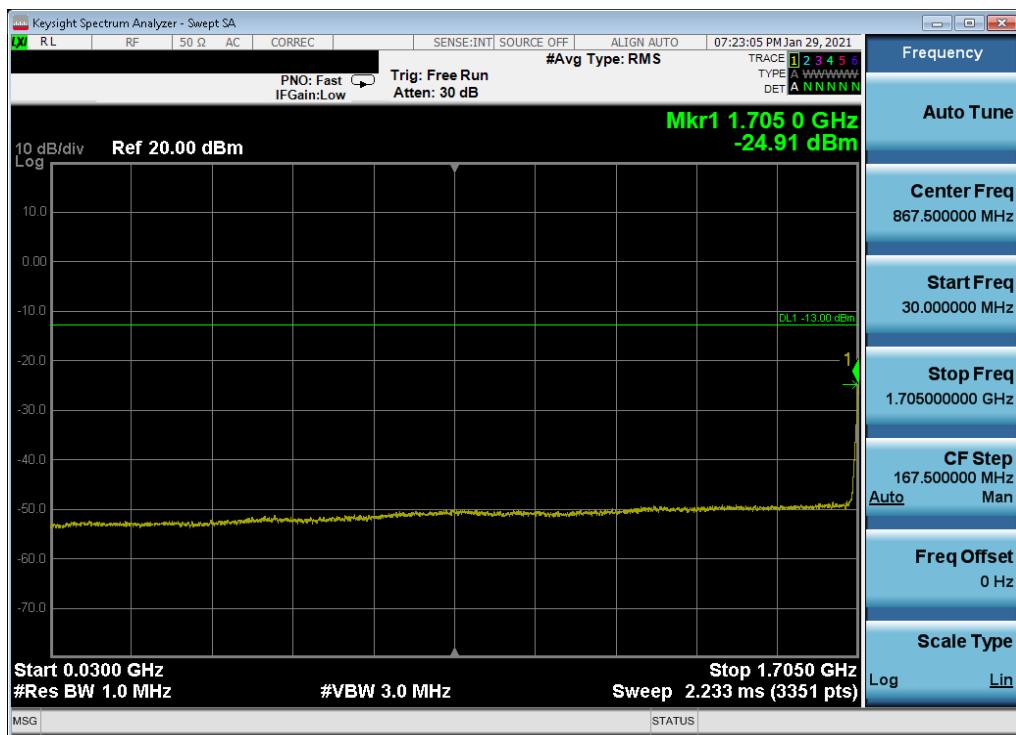
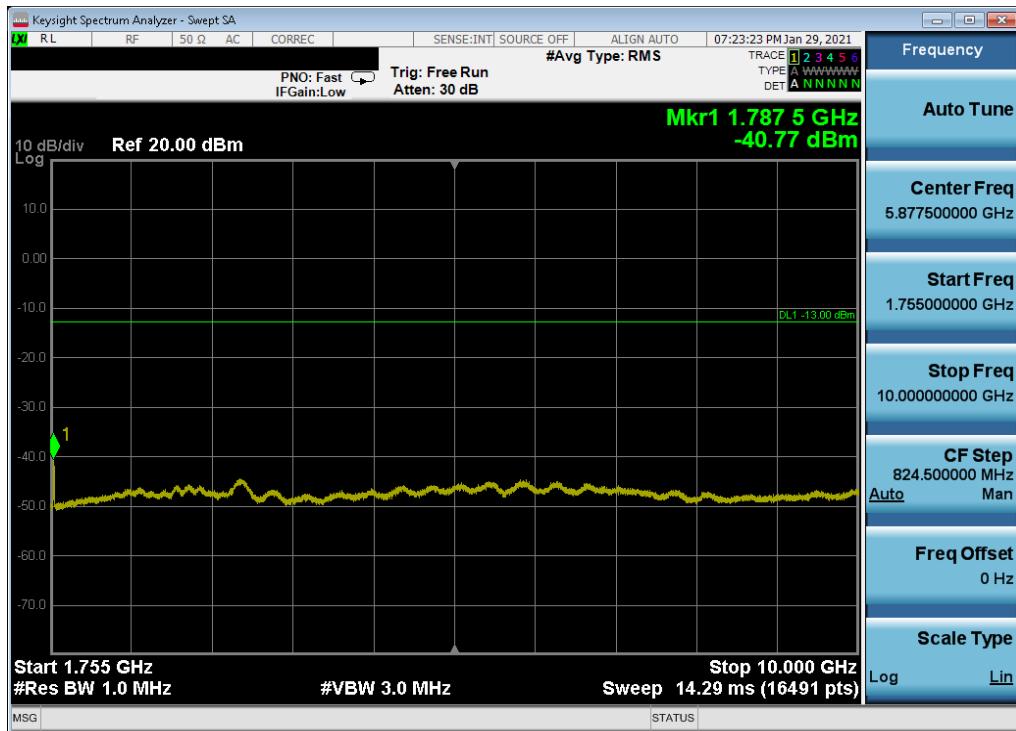
Plot 7-176. CSE (NR Band n71 - 20.0MHz DFT-s OFDM $\pi/2$ BPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: BCGA2379	 PCTEST <small>Proud to be part of element</small>		PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020005-04-R1.BCG	Test Dates: 12/15/2020 - 02/20/2021	EUT Type: Tablet Device		Page 109 of 267

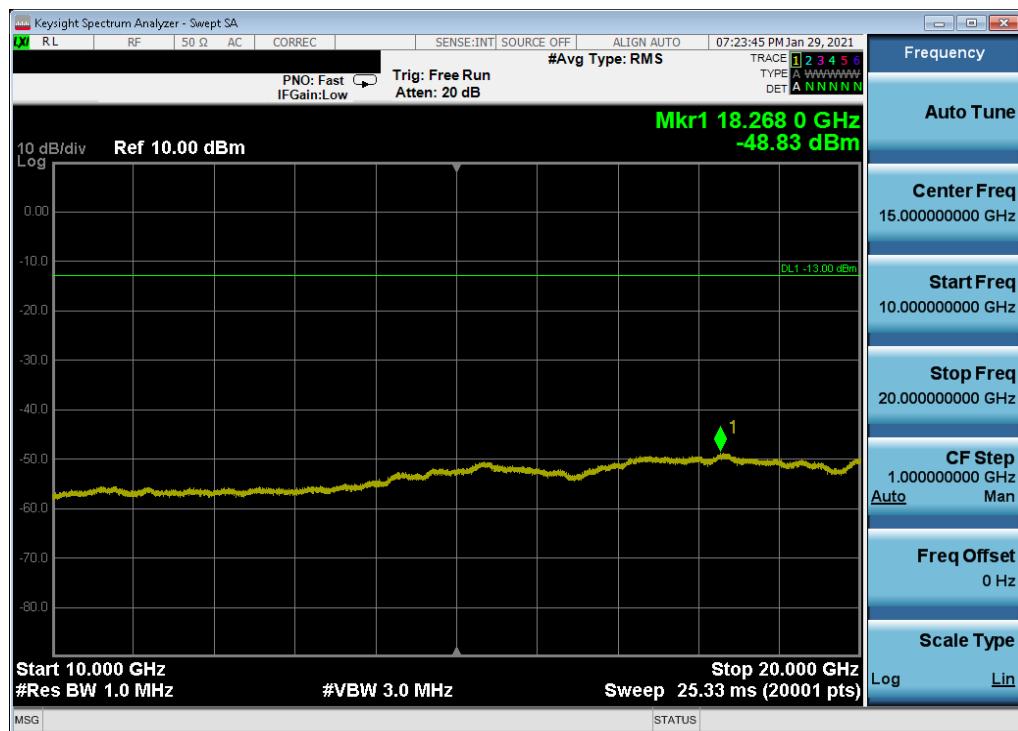


Plot 7-177. CSE (NR Band n71 - 20.0MHz DFT-s OFDM $\pi/2$ BPSK - RB Size 1, RB Offset 0 - High Channel)

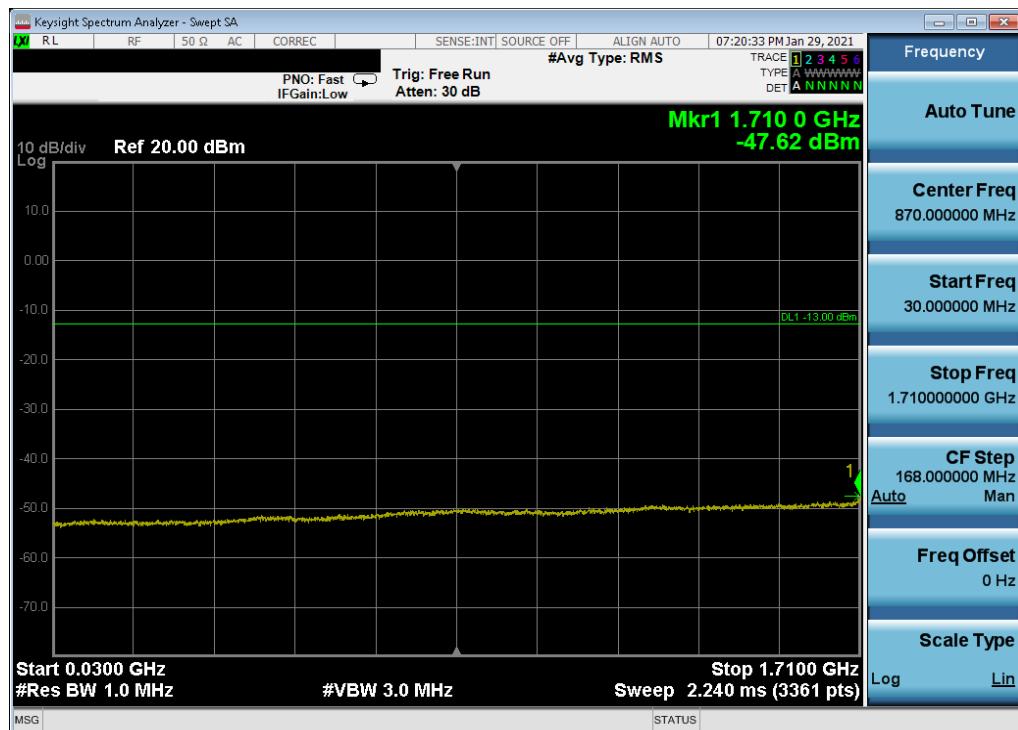
FCC ID: BCGA2379	PCTEST Proud to be part of 			PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
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WCDMA AWS

Plot 7-178. CSE (WCDMA Ch. 1312- Low Channel)

Plot 7-179. CSE (WCDMA Ch. 1312- Low Channel)

FCC ID: BCGA2379	 PART 27 MEASUREMENT REPORT			Approved by: Quality Manager
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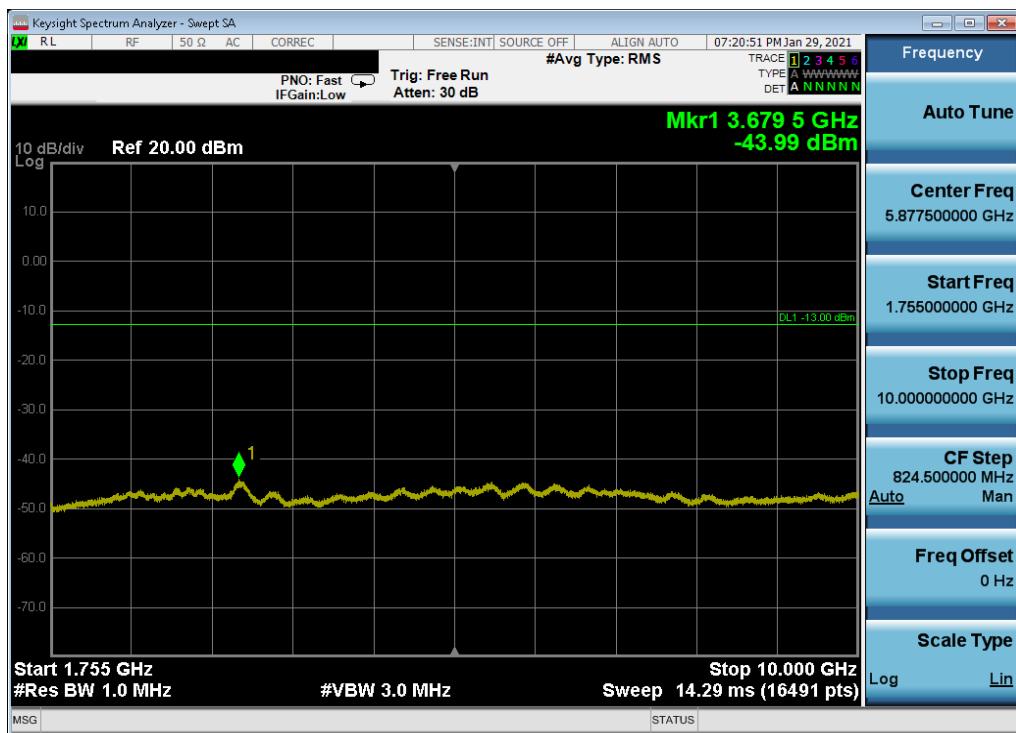


Plot 7-180. CSE (WCDMA Ch. 1312- Low Channel)

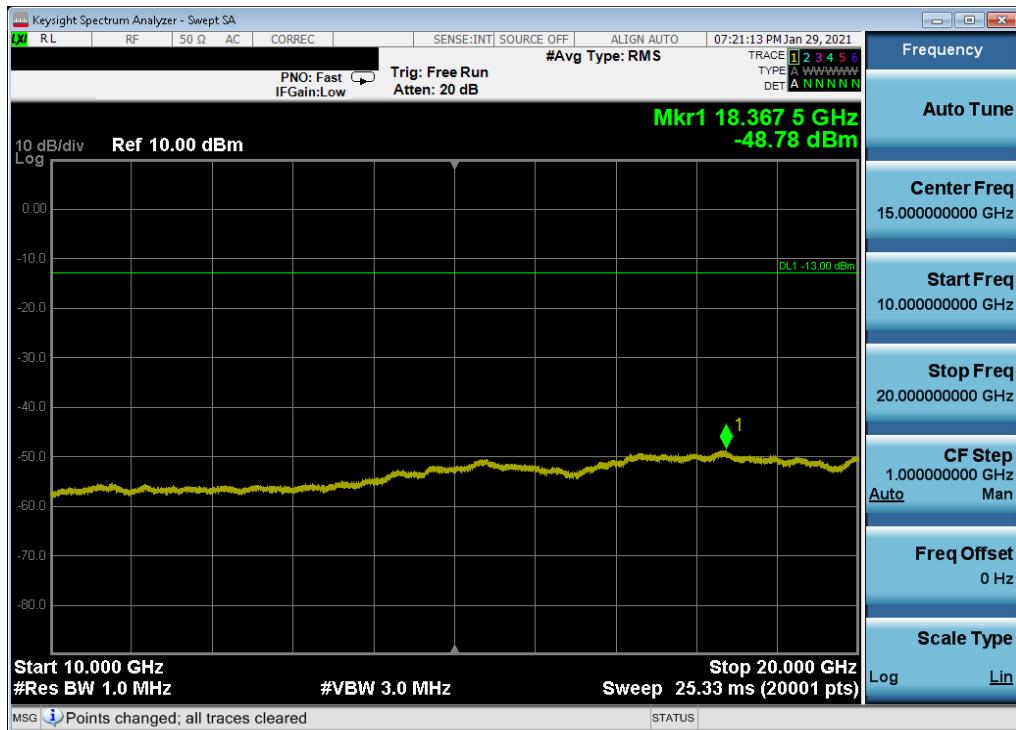


Plot 7-181. CSE (WCDMA Ch. 1413- Mid Channel)

FCC ID: BCGA2379	PCTEST Proud to be part of 			PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020005-04-R1.BCG	Test Dates: 12/15/2020 - 02/20/2021	EUT Type: Tablet Device			Page 112 of 267

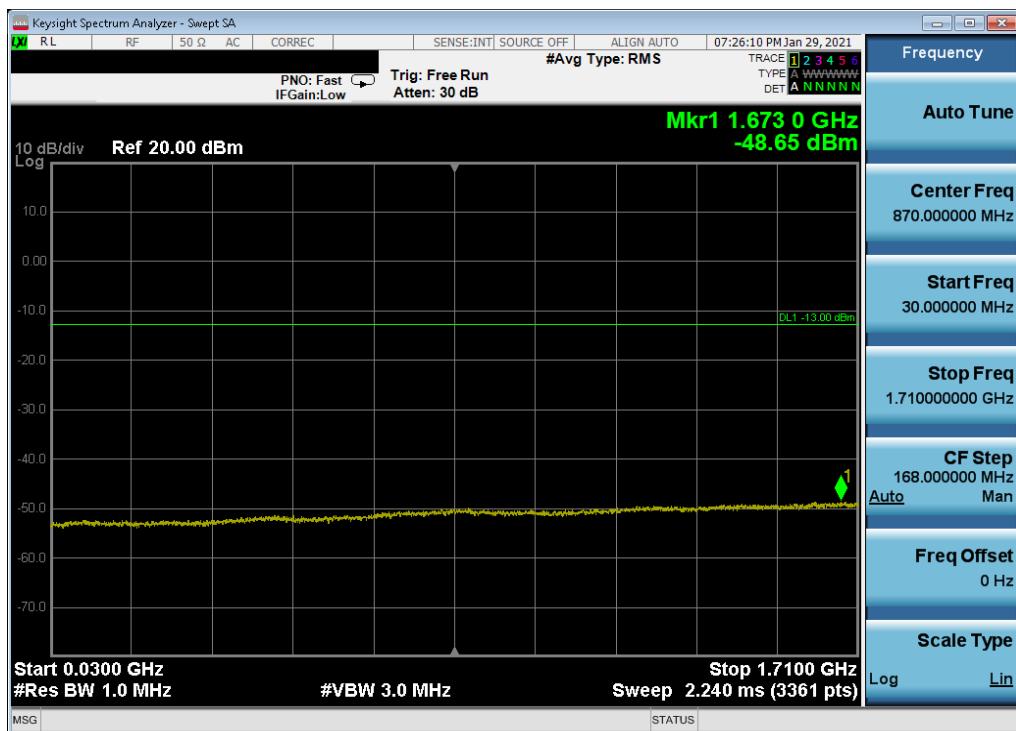


Plot 7-182. CSE (WCDMA Ch. 1413- Mid Channel)

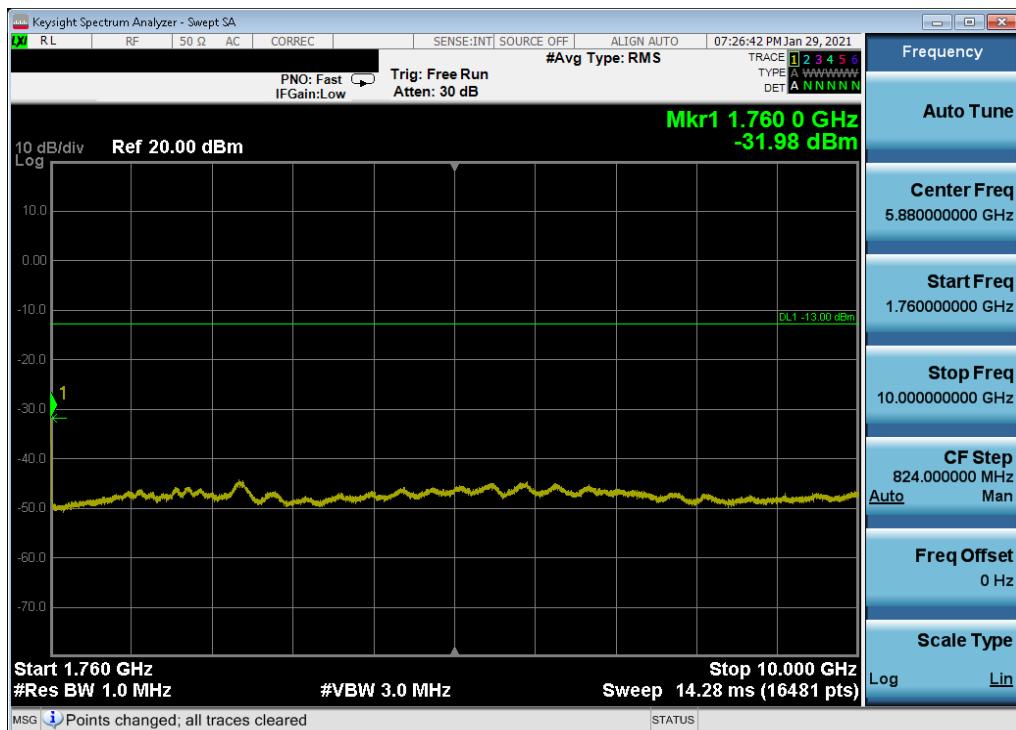


Plot 7-183. CSE (WCDMA Ch. 1413- Mid Channel)

FCC ID: BCGA2379	PCTEST Proud to be part of 			PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
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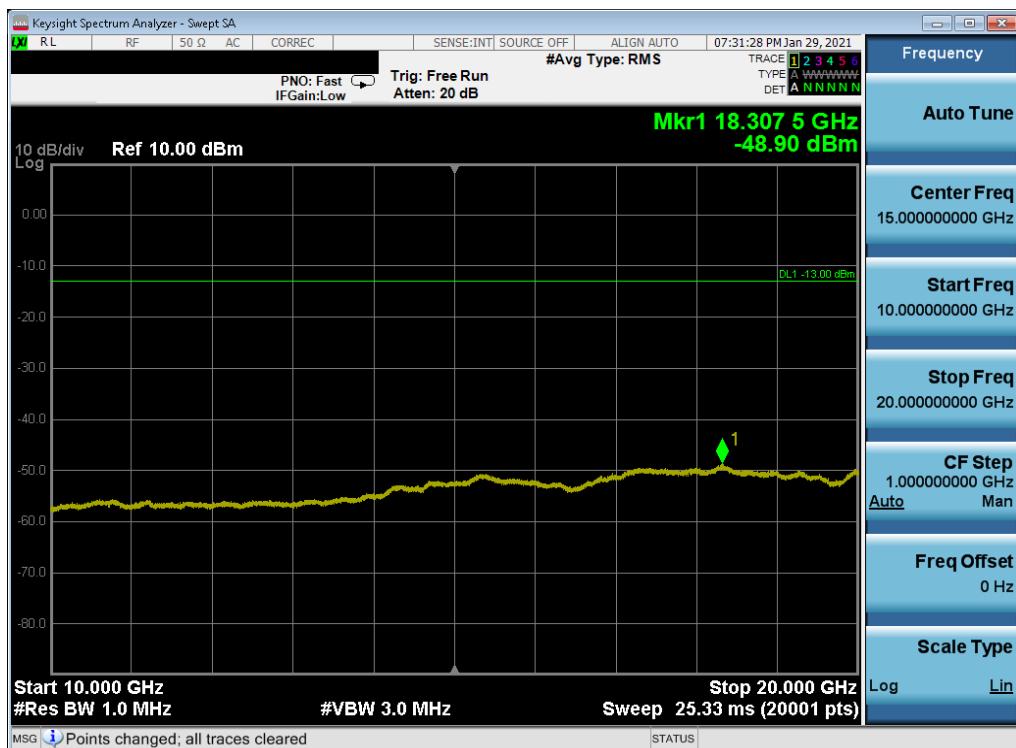


Plot 7-184. CSE (WCDMA Ch. 1513- High Channel)



Plot 7-185. CSE (WCDMA Ch. 1513- High Channel)

FCC ID: BCGA2379	PCTEST Proud to be part of 			PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
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Plot 7-186. Conducted Spurious Plot (WCDMA Ch. 1513- High Channel)

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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 x RBW
5. Detector = RMS
6. Number of sweep points \geq 2 x 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.

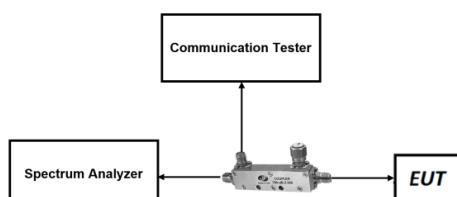


Figure 7-3. Test Instrument & Measurement Setup

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Test Notes

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.

Per 27.53(g) for operations in the 698-746 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.

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.

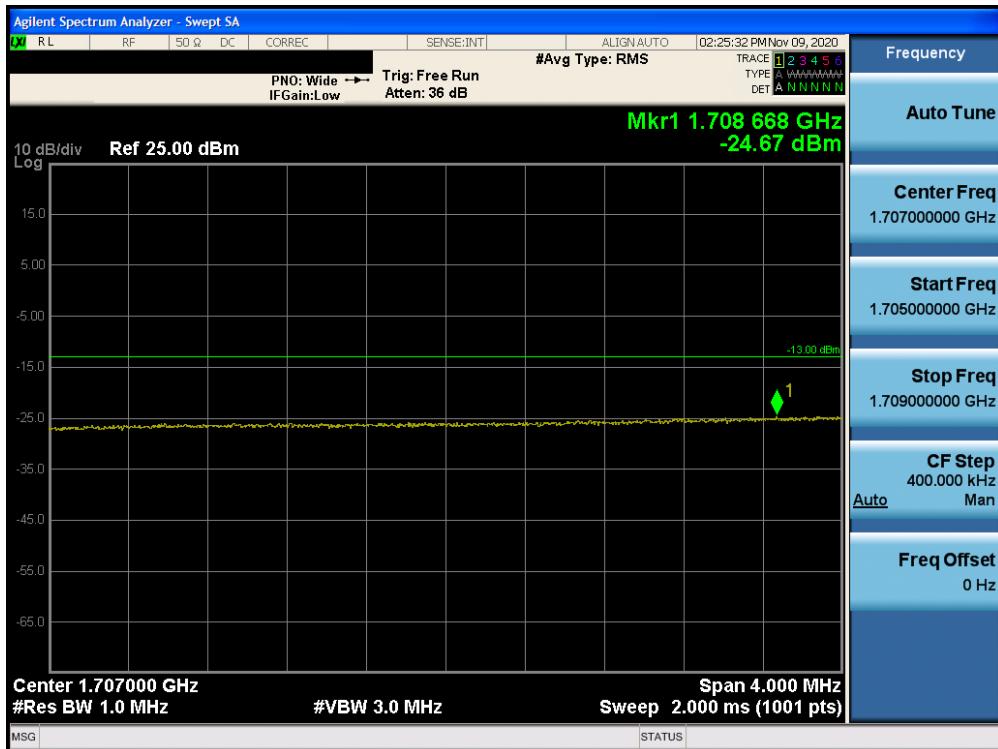
For all plots showing emissions in the 763 – 775MHz and 793 – 805MHz band, the FCC limit per 27.53(c)(4) is $65 + 10 \log_{10}(P) = -35 \text{dBm}$ in a 6.25kHz bandwidth.

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Band 4



Plot 7-187. Lower Band Edge Plot (Band 4 - 20.0MHz DFT-s OFDM π/2 BPSK QPSK - Full RB Configuration)



Plot 7-188. Lower Extended Band Edge Plot (Band 4 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2379	 PCTEST Proud to be part of 		PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
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Plot 7-189. Upper Band Edge Plot (Band 4 - 20.0MHz QPSK - Full RB Configuration)



Plot 7-190. Upper Extended Band Edge Plot (Band 4 - 20.0MHz QPSK - Full RB Configuration)

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Plot 7-191. Lower Band Edge Plot (Band 4 - 15.0MHz QPSK - Full RB Configuration)



Plot 7-192. Lower Extended Band Edge Plot (Band 4 - 15.0MHz QPSK - Full RB Configuration)

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Plot 7-193. Upper Band Edge Plot (Band 4 - 15.0MHz QPSK - Full RB Configuration)



Plot 7-194. Upper Extended Band Edge Plot (Band 4 - 15.0MHz QPSK - Full RB Configuration)

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Plot 7-195. Lower Band Edge Plot (Band 4 - 10.0MHz QPSK - Full RB Configuration)



Plot 7-196. Lower Extended Band Edge Plot (Band 4 - 10.0MHz QPSK - Full RB Configuration)

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