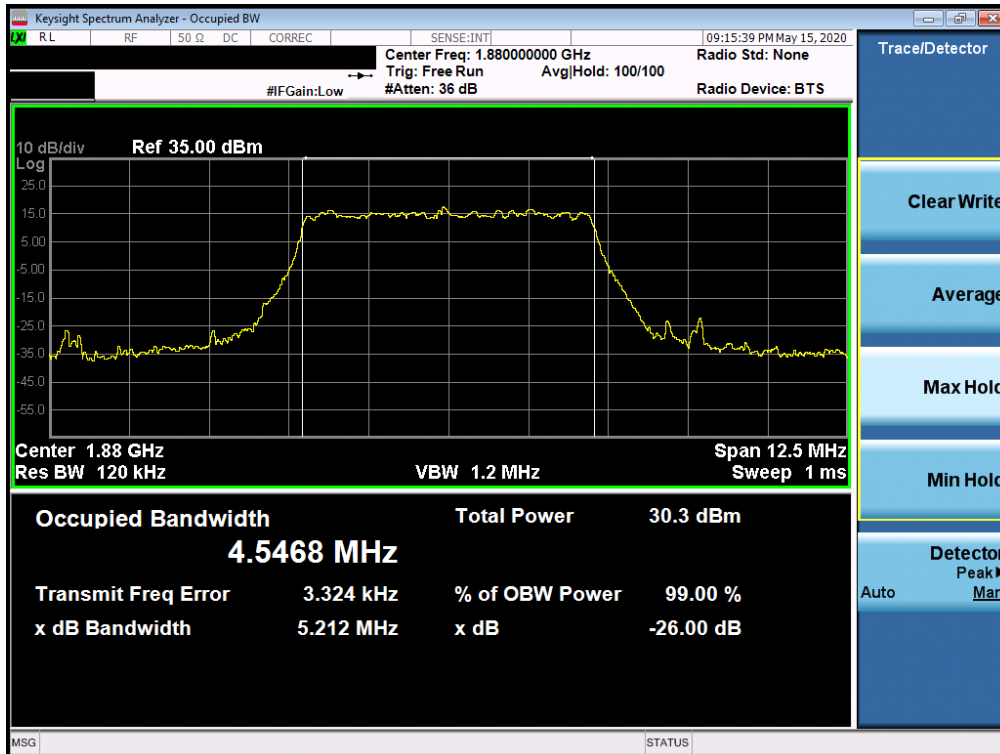
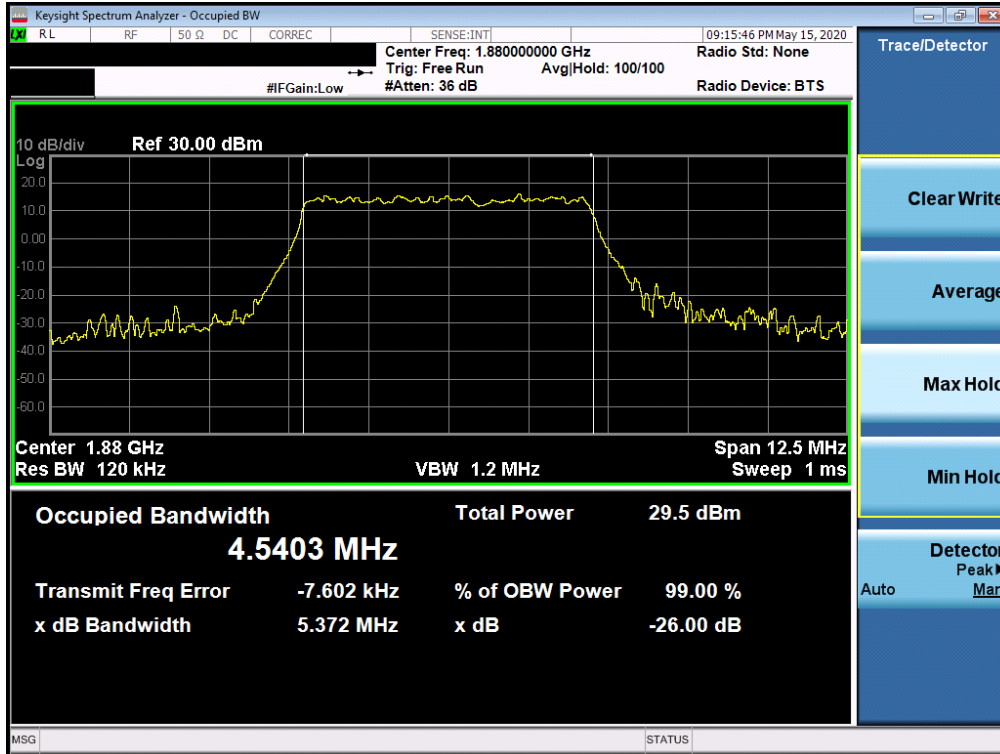


Plot 7-111. Occupied Bandwidth Plot (NR Band n2 - 5MHz CP-OFDM QPSK - Full RB Configuration)

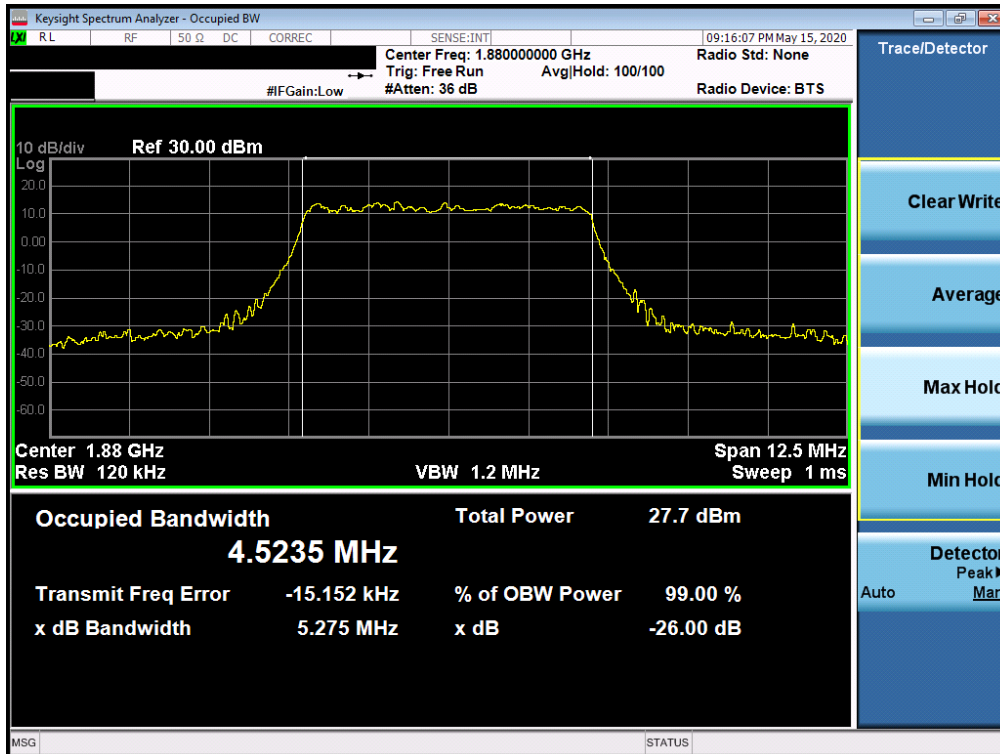


Plot 7-112. Occupied Bandwidth Plot (NR Band n2 - 5MHz CP-OFDM 16-QAM - Full RB Configuration)

FCC ID: A3LSMH303V	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2007010102-02-R1.A3L	Test Dates: 8/22 - 9/12/2020	EUT Type: Outdoor Customer Premises Equipment (CPE)		Page 73 of 284



Plot 7-113. Occupied Bandwidth Plot (NR Band n2 - 5MHz CP-OFDM 64-QAM - Full RB Configuration)



Plot 7-114. Occupied Bandwidth Plot (NR Band n2 - 5MHz CP-OFDM 256-QAM - Full RB Configuration)

FCC ID: A3LSMH303V	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2007010102-02-R1.A3L	Test Dates: 8/22 - 9/12/2020	EUT Type: Outdoor Customer Premises Equipment (CPE)		Page 74 of 284

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

The minimum permissible attenuation level of any spurious emission is $43 + 10 \log_{10}(P_{[Watts]})$, 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 at least 10 * the fundamental frequency (separated into at least two plots per channel)
2. Detector = RMS
3. Trace mode = trace average
4. Sweep time = auto couple
5. The trace was allowed to stabilize
6. Please see test notes below for RBW and VBW settings

Test Setup

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



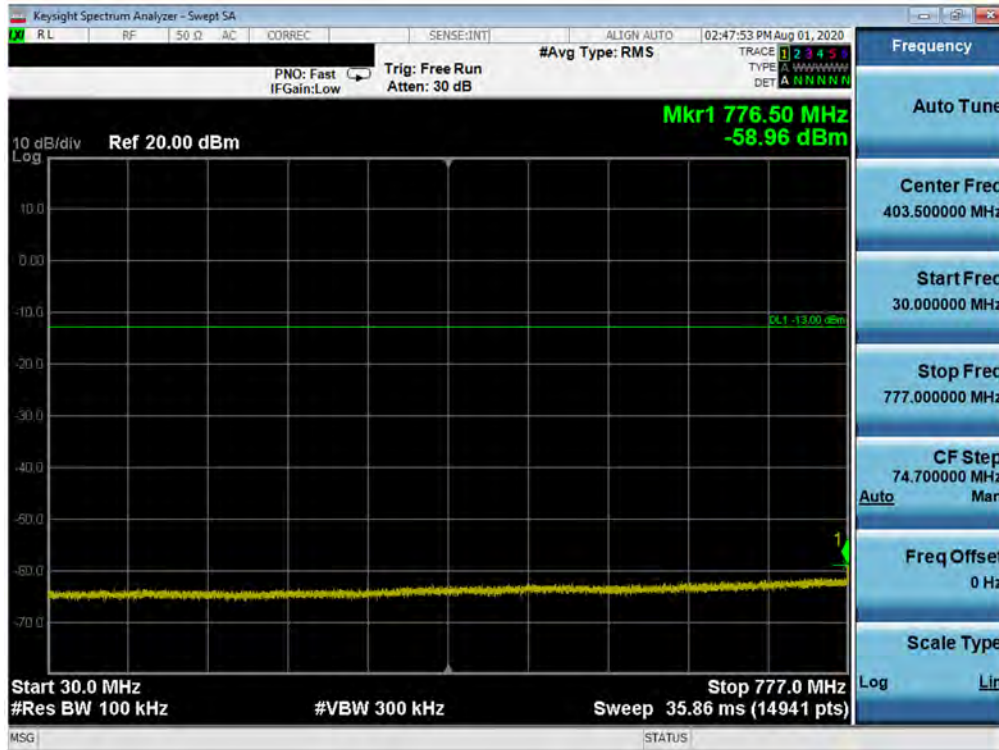
Figure 7-2. Test Instrument & Measurement Setup

Test Notes

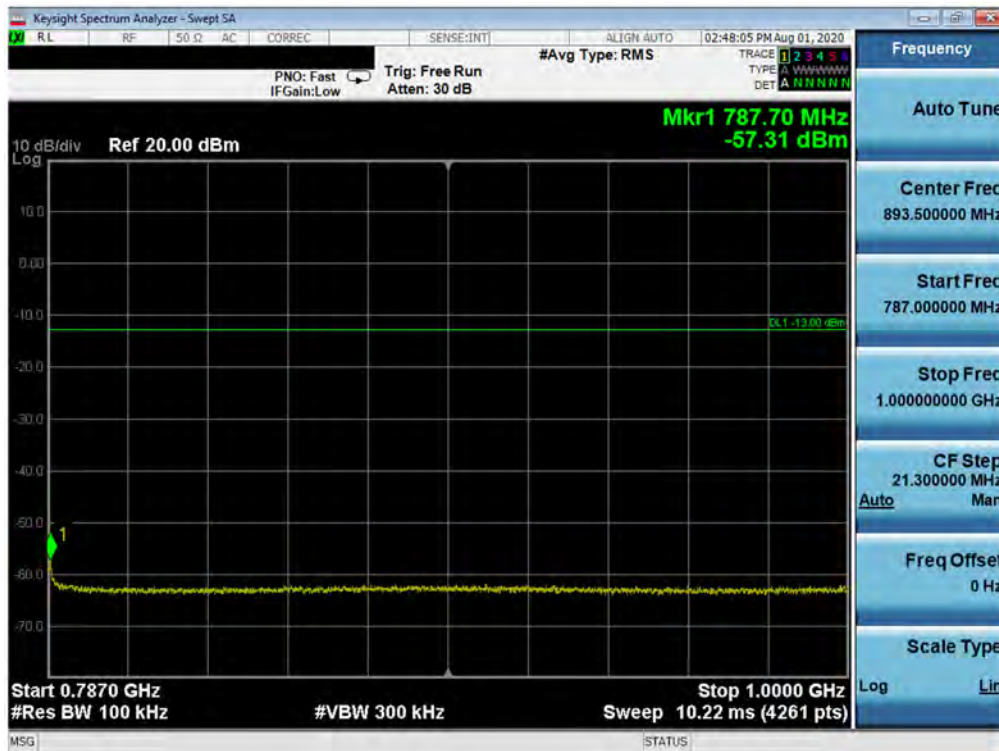
Compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater for frequencies less than 1 GHz and 1 MHz or greater for frequencies greater than 1 GHz. However, in the 1 MHz bands immediately outside and adjacent to the 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.

FCC ID: A3LSMH303V		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2007010102-02-R1.A3L	Test Dates: 8/22 - 9/12/2020	EUT Type: Outdoor Customer Premises Equipment (CPE)	Page 75 of 284	

Band 13

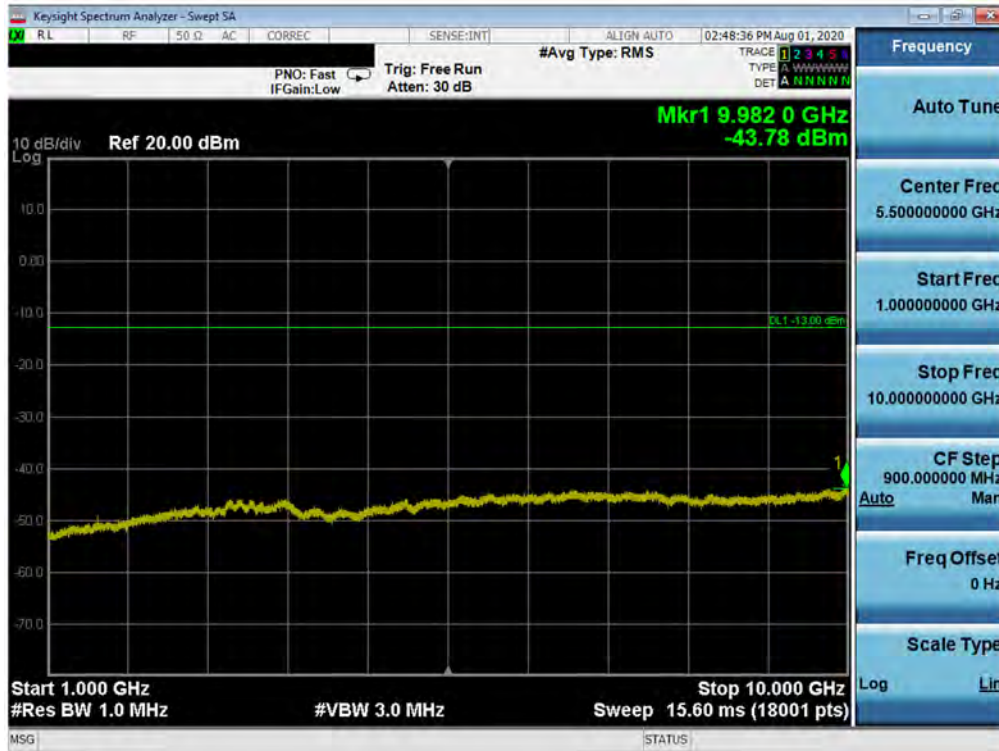


Plot 7-115. Conducted Spurious Plot (Band 13 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)



Plot 7-116. Conducted Spurious Plot (Band 13 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

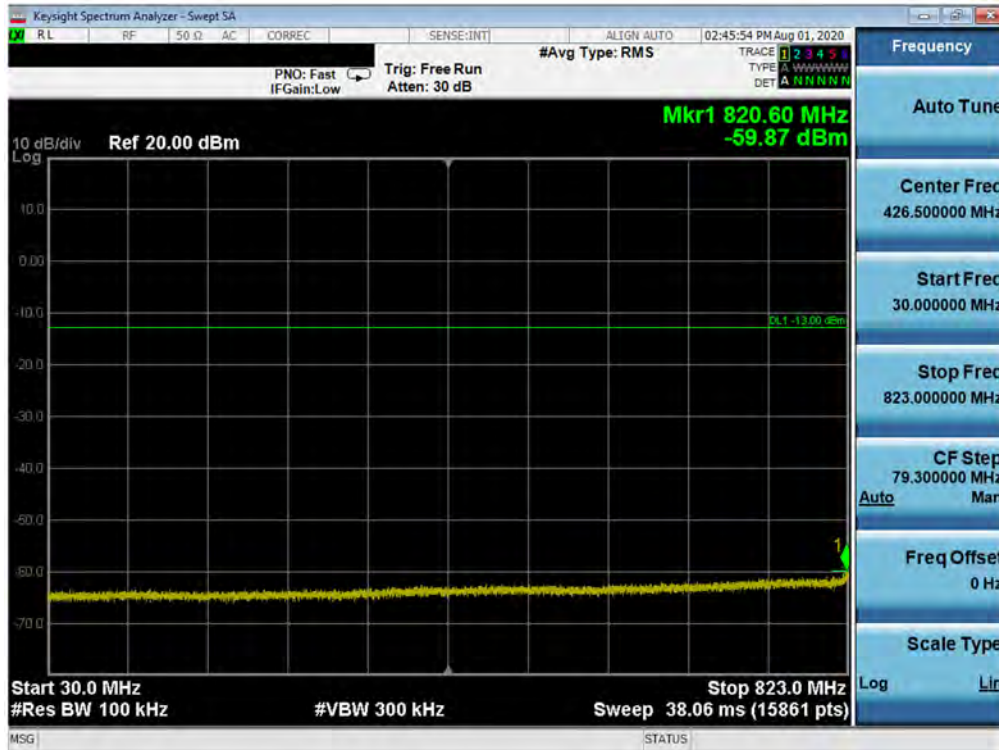
FCC ID: A3LSMH303V		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2007010102-02-R1.A3L	Test Dates: 8/22 - 9/12/2020	EUT Type: Outdoor Customer Premises Equipment (CPE)	Page 76 of 284	



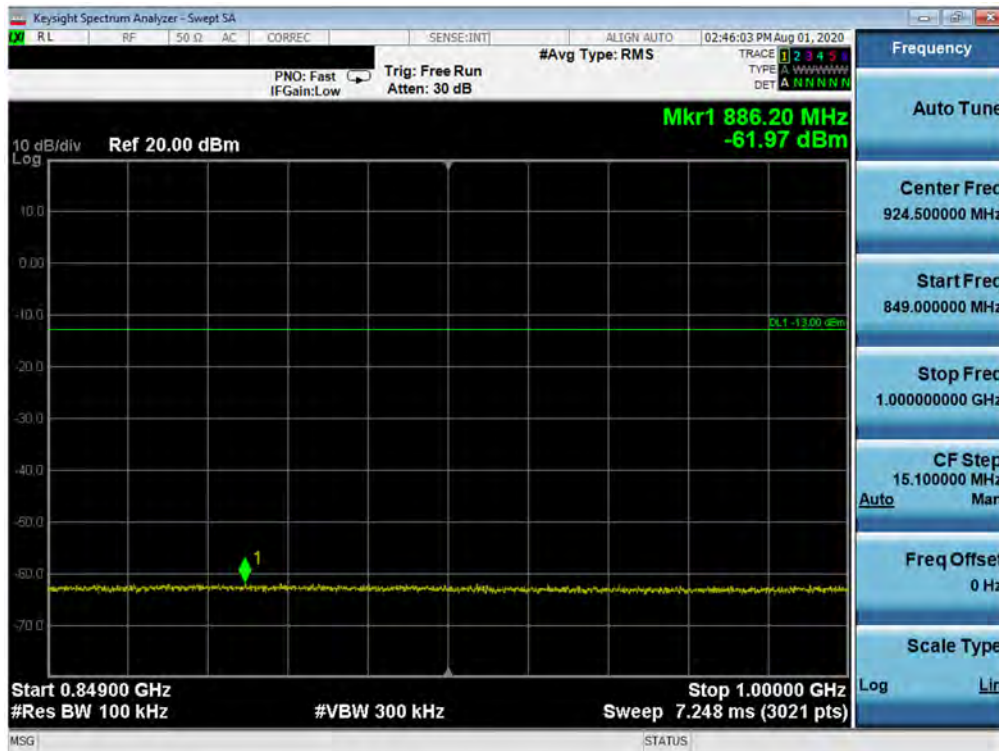
Plot 7-117. Conducted Spurious Plot (Band 13 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: A3LSMH303V	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2007010102-02-R1.A3L	Test Dates: 8/22 - 9/12/2020	EUT Type: Outdoor Customer Premises Equipment (CPE)		Page 77 of 284

Band 5

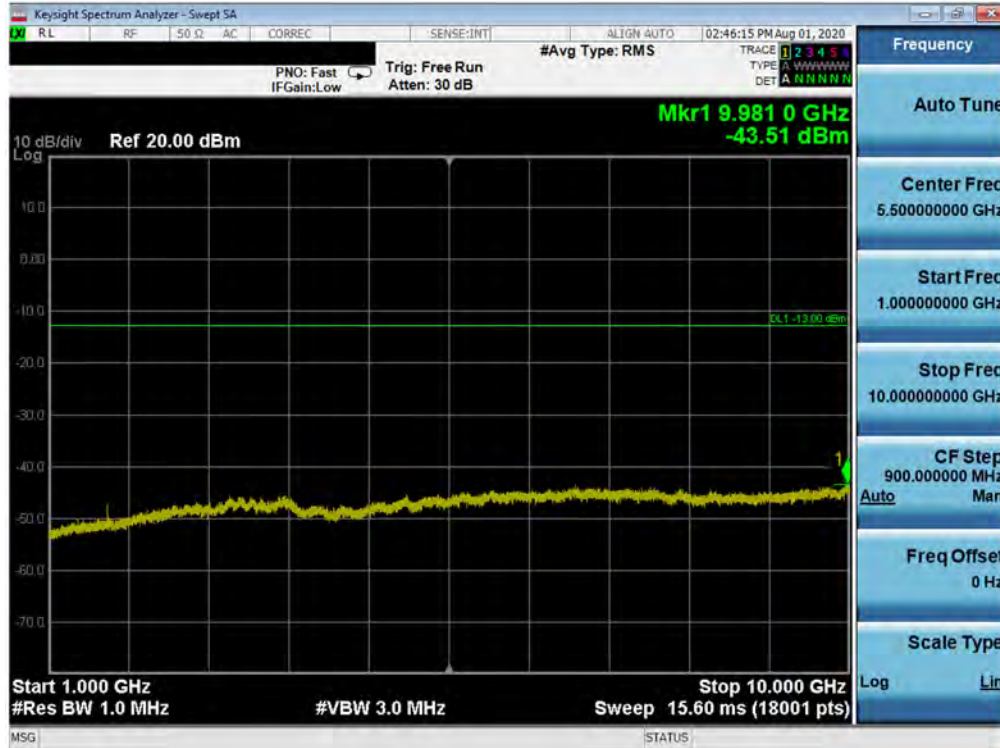


Plot 7-118. Conducted Spurious Plot (Band 5 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)



Plot 7-119. Conducted Spurious Plot (Band 5 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

FCC ID: A3LSMH303V	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2007010102-02-R1.A3L	Test Dates: 8/22 - 9/12/2020	EUT Type: Outdoor Customer Premises Equipment (CPE)		Page 78 of 284

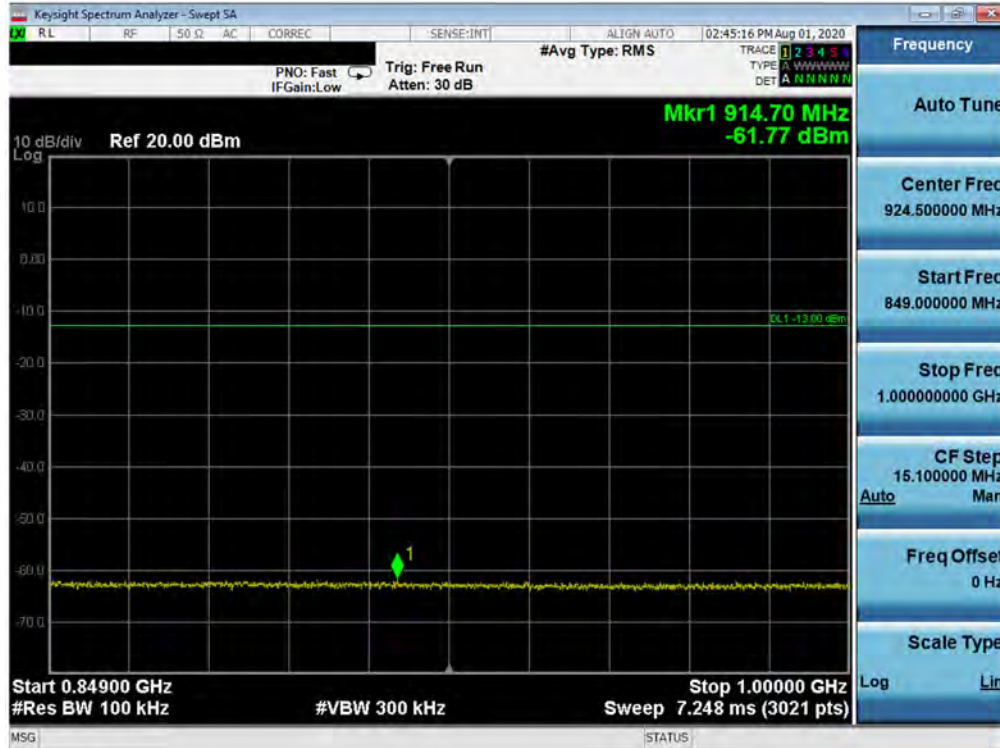


Plot 7-120. Conducted Spurious Plot (Band 5 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

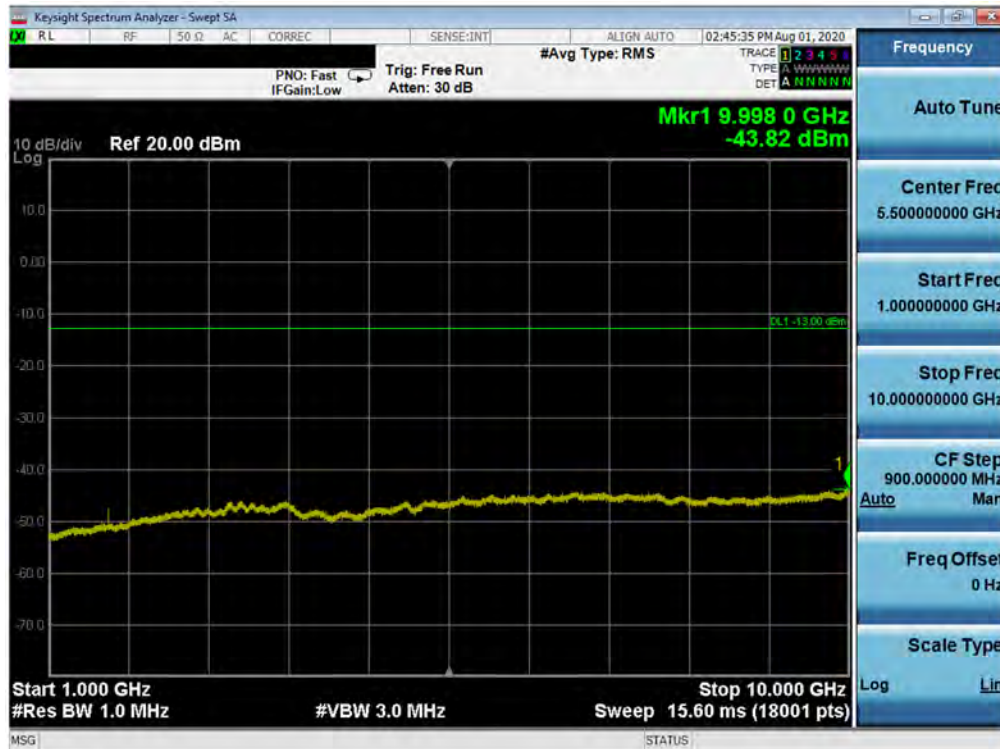


Plot 7-121. Conducted Spurious Plot (Band 5 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: A3LSMH303V	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2007010102-02-R1.A3L	Test Dates: 8/22 - 9/12/2020	EUT Type: Outdoor Customer Premises Equipment (CPE)		Page 79 of 284

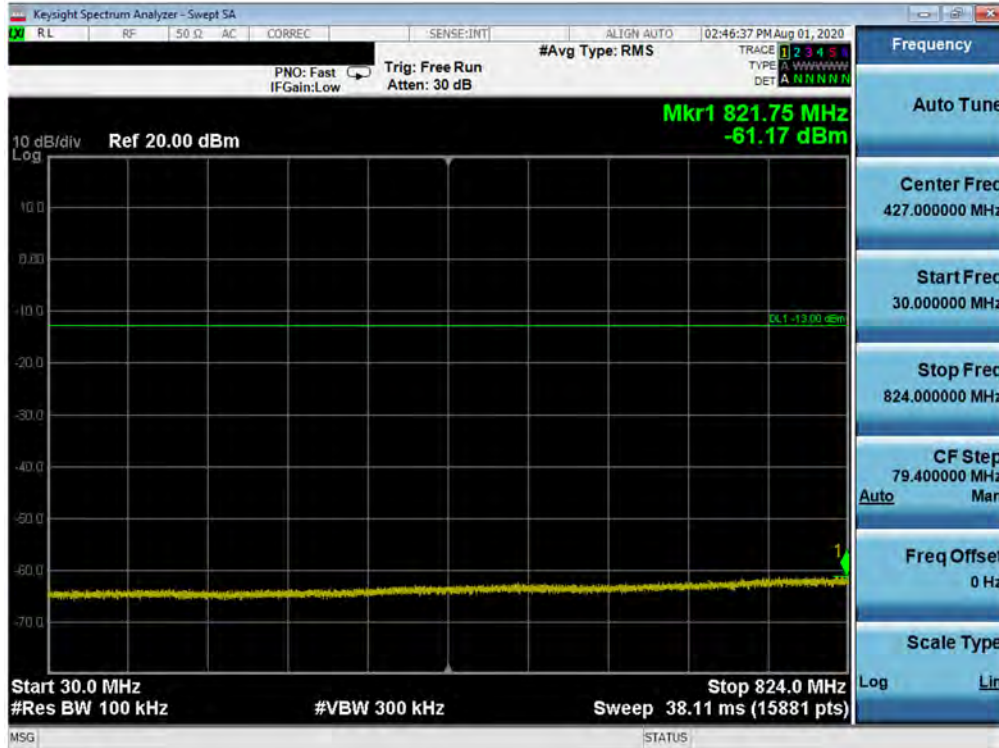


Plot 7-122. Conducted Spurious Plot (Band 5 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

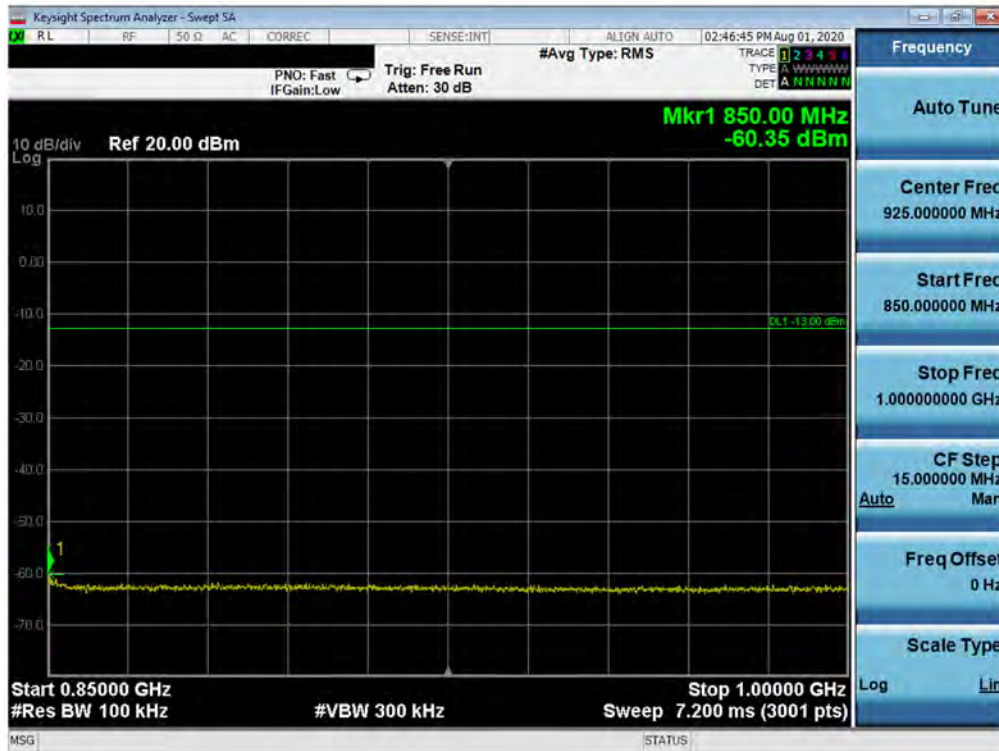


Plot 7-123. Conducted Spurious Plot (Band 5 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: A3LSMH303V	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2007010102-02-R1.A3L	Test Dates: 8/22 - 9/12/2020	EUT Type: Outdoor Customer Premises Equipment (CPE)		Page 80 of 284

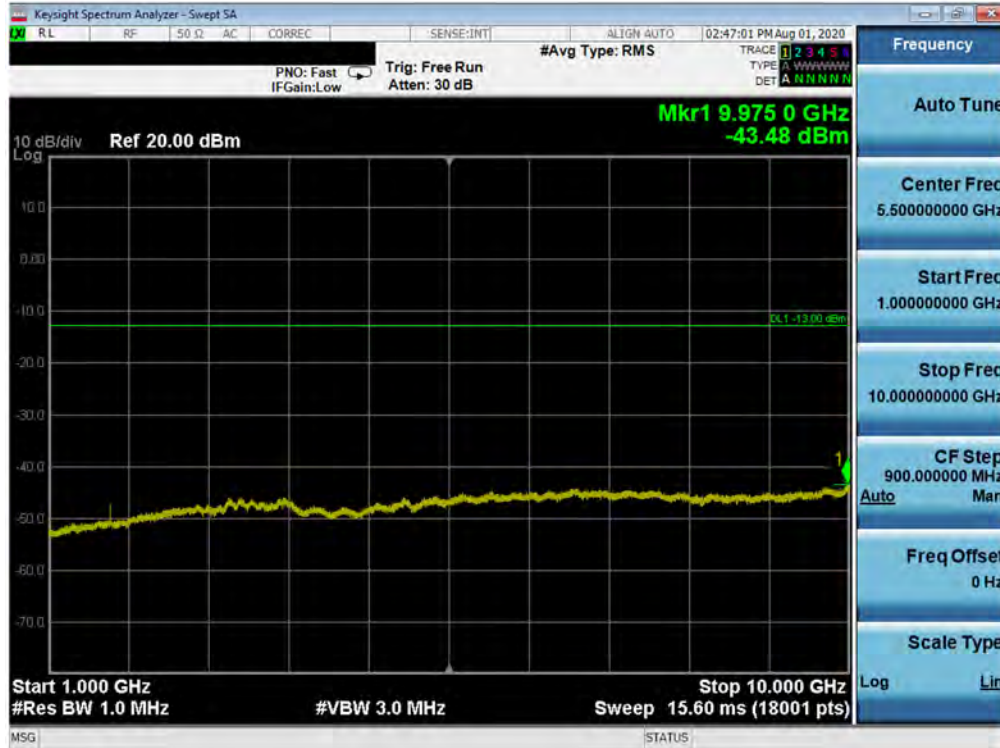


Plot 7-124. Conducted Spurious Plot (Band 5 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)



Plot 7-125. Conducted Spurious Plot (Band 5 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: A3LSMH303V	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2007010102-02-R1.A3L	Test Dates: 8/22 - 9/12/2020	EUT Type: Outdoor Customer Premises Equipment (CPE)		Page 81 of 284



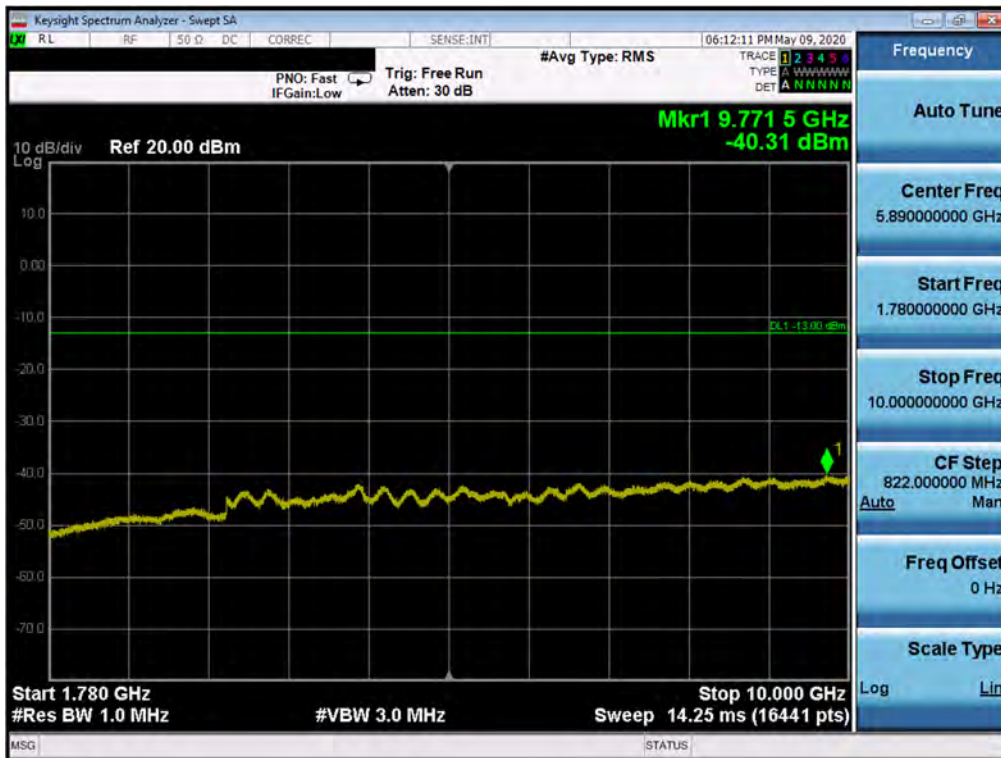
Plot 7-126. Conducted Spurious Plot (Band 5 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: A3LSMH303V		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2007010102-02-R1.A3L	Test Dates: 8/22 - 9/12/2020	EUT Type: Outdoor Customer Premises Equipment (CPE)		Page 82 of 284

Band 66/4

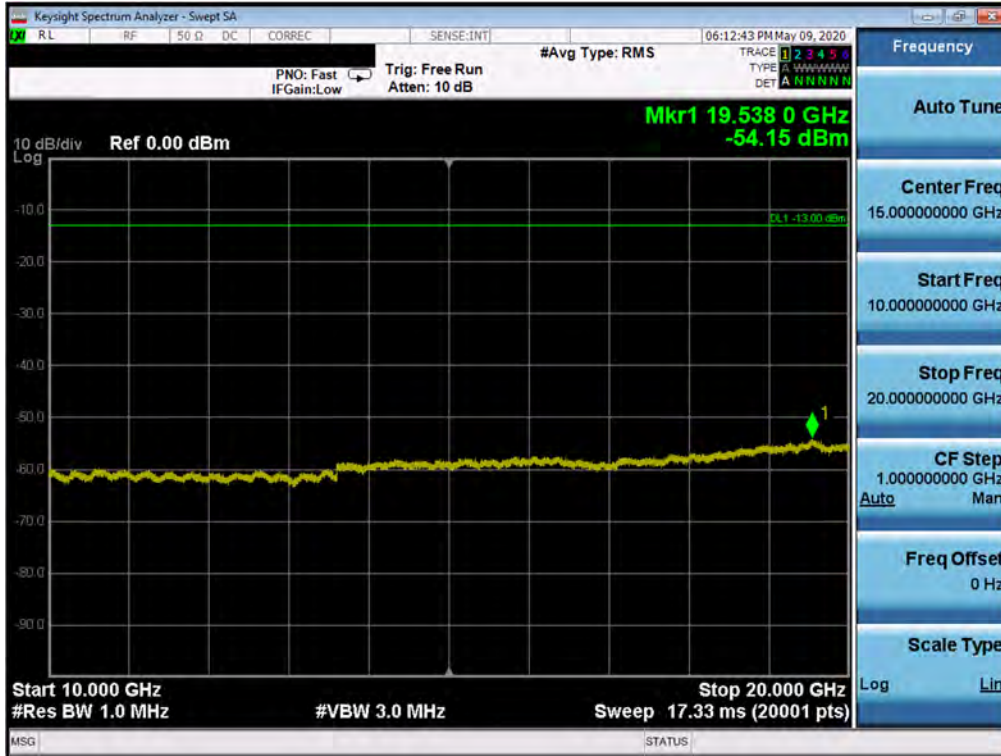


Plot 7-127. Conducted Spurious Plot (Band 66/4 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)



Plot 7-128. Conducted Spurious Plot (Band 66/4 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

FCC ID: A3LSMH303V		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2007010102-02-R1.A3L	Test Dates: 8/22 - 9/12/2020	EUT Type: Outdoor Customer Premises Equipment (CPE)		Page 83 of 284

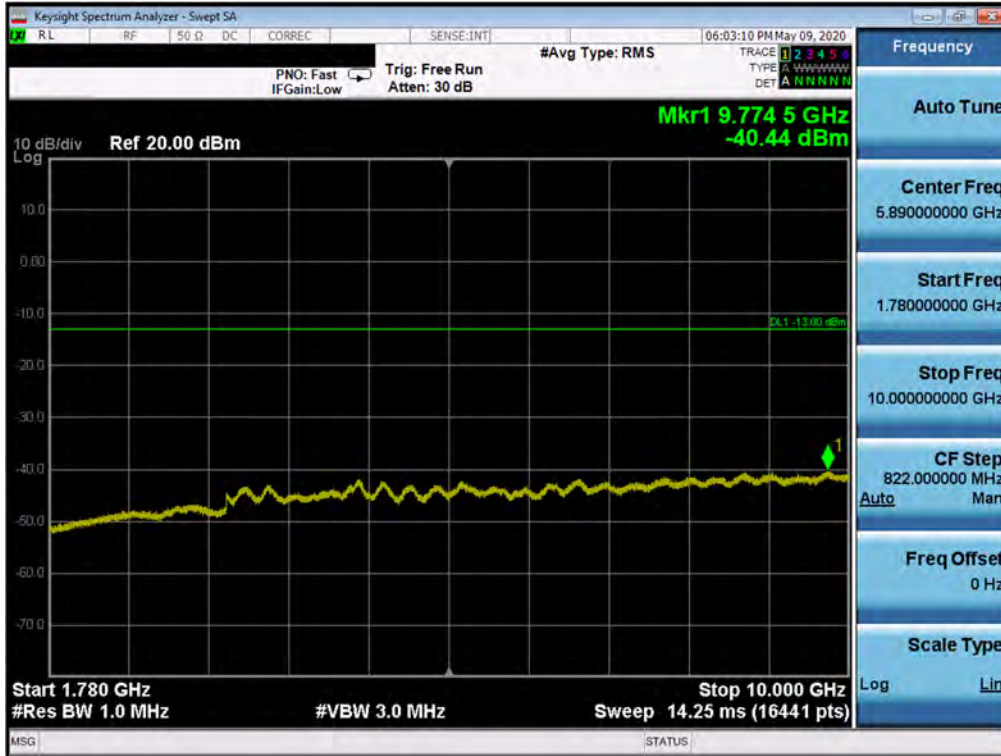


Plot 7-129. Conducted Spurious Plot (Band 66/4 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

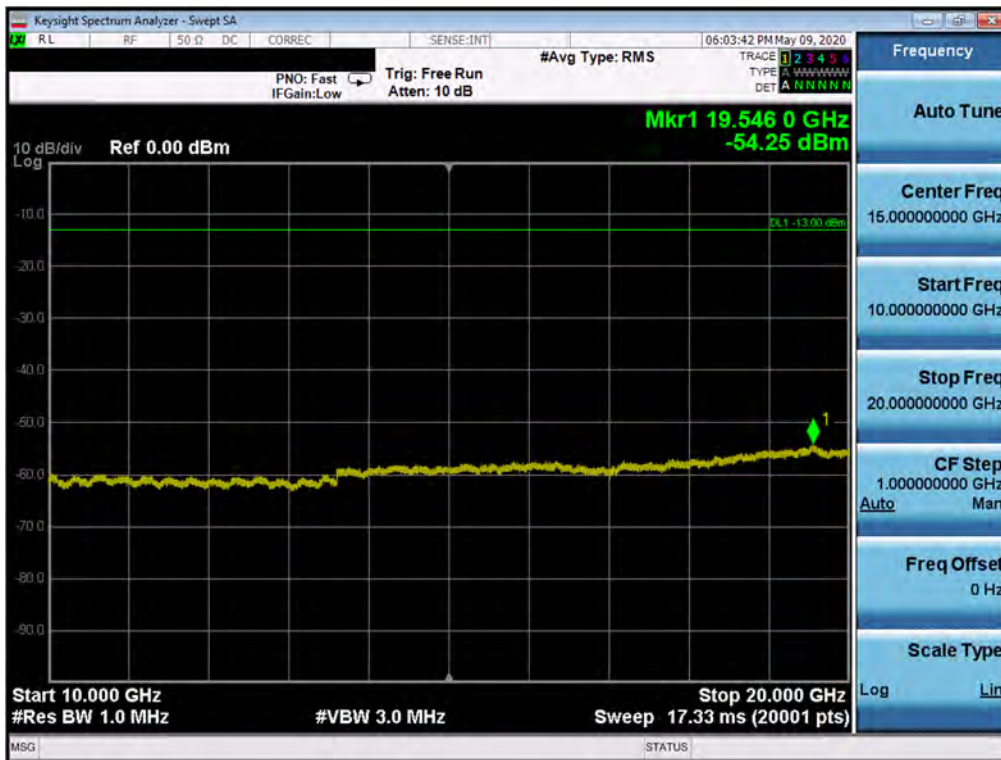


Plot 7-130. Conducted Spurious Plot (Band 66/4 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: A3LSMH303V	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2007010102-02-R1.A3L	Test Dates: 8/22 - 9/12/2020	EUT Type: Outdoor Customer Premises Equipment (CPE)		Page 84 of 284



Plot 7-131. Conducted Spurious Plot (Band 66/4 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

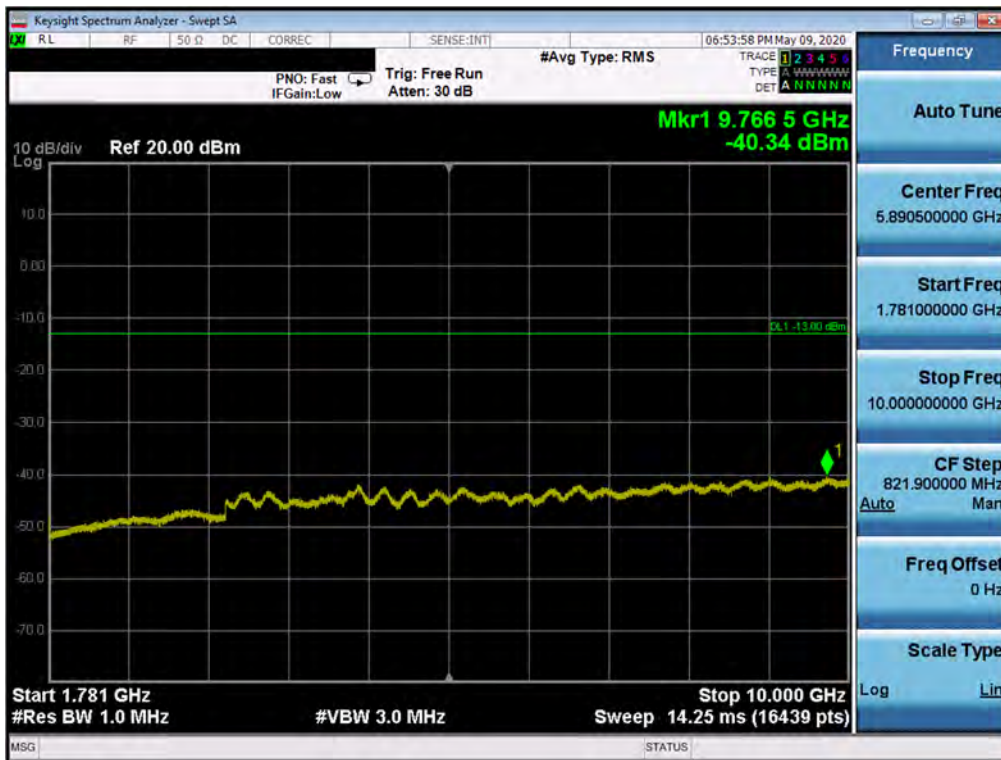


Plot 7-132. Conducted Spurious Plot (Band 66/4 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: A3LSMH303V	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2007010102-02-R1.A3L	Test Dates: 8/22 - 9/12/2020	EUT Type: Outdoor Customer Premises Equipment (CPE)		Page 85 of 284

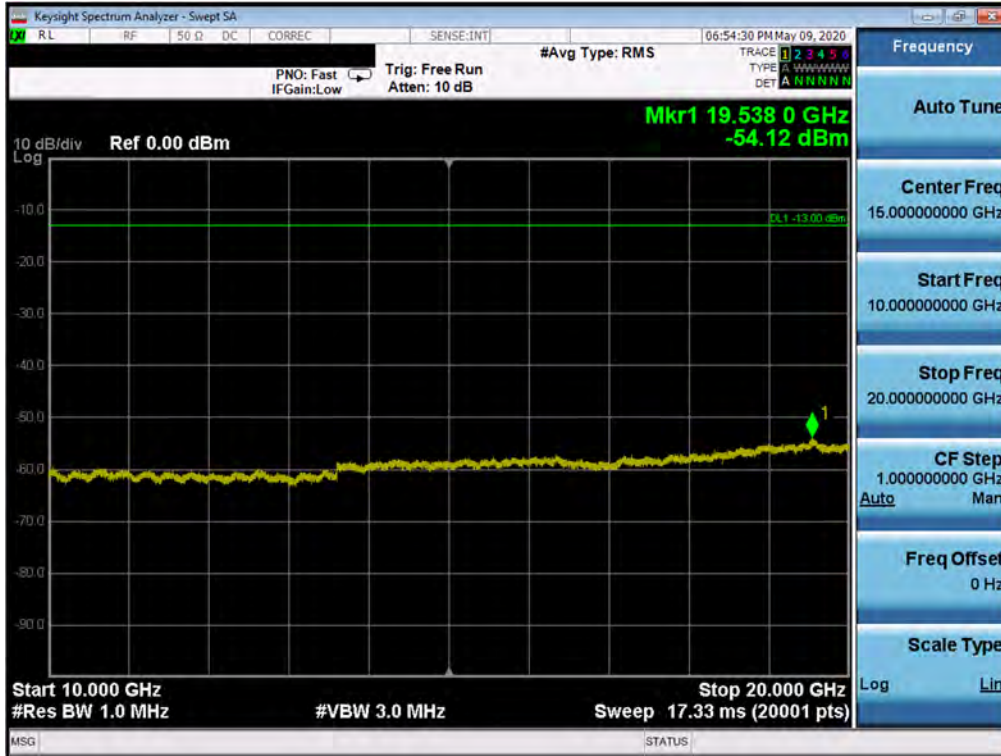


Plot 7-133. Conducted Spurious Plot (Band 66/4 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)



Plot 7-134. Conducted Spurious Plot (Band 66/4 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

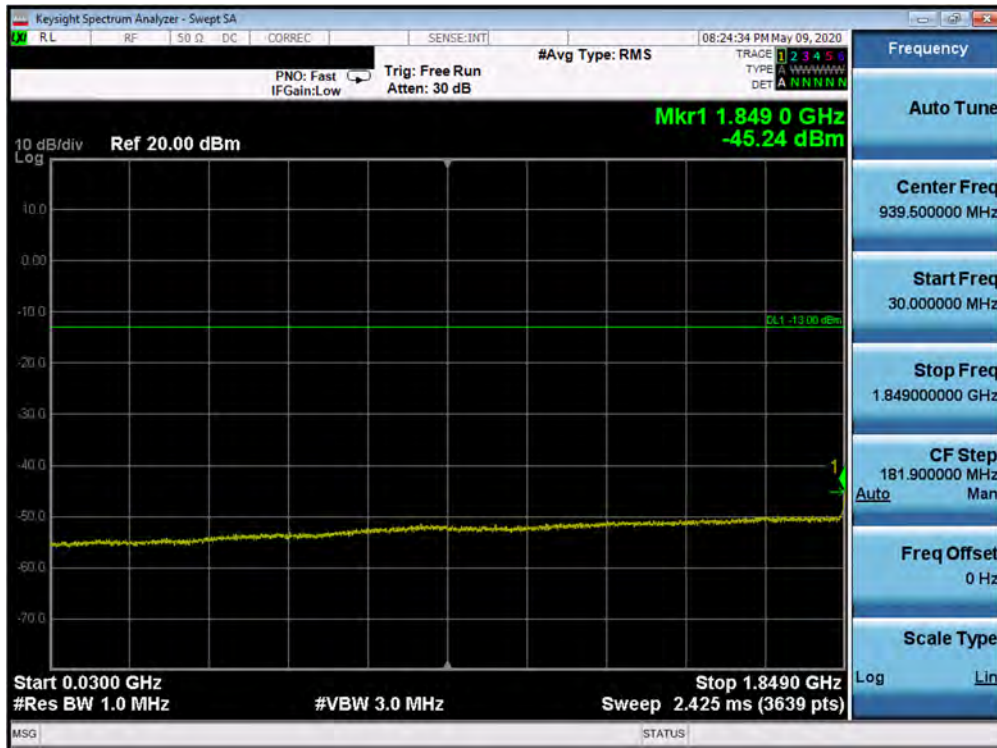
FCC ID: A3LSMH303V	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2007010102-02-R1.A3L	Test Dates: 8/22 - 9/12/2020	EUT Type: Outdoor Customer Premises Equipment (CPE)		Page 86 of 284



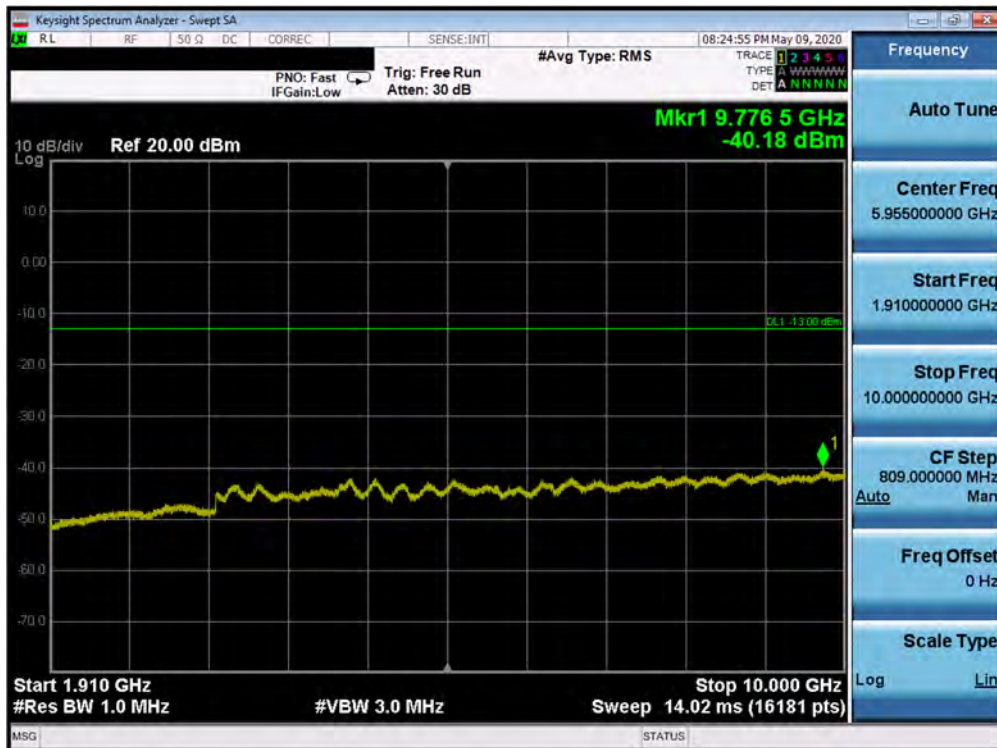
Plot 7-135. Conducted Spurious Plot (Band 66/4 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: A3LSMH303V	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2007010102-02-R1.A3L	Test Dates: 8/22 - 9/12/2020	EUT Type: Outdoor Customer Premises Equipment (CPE)		Page 87 of 284

Band 2

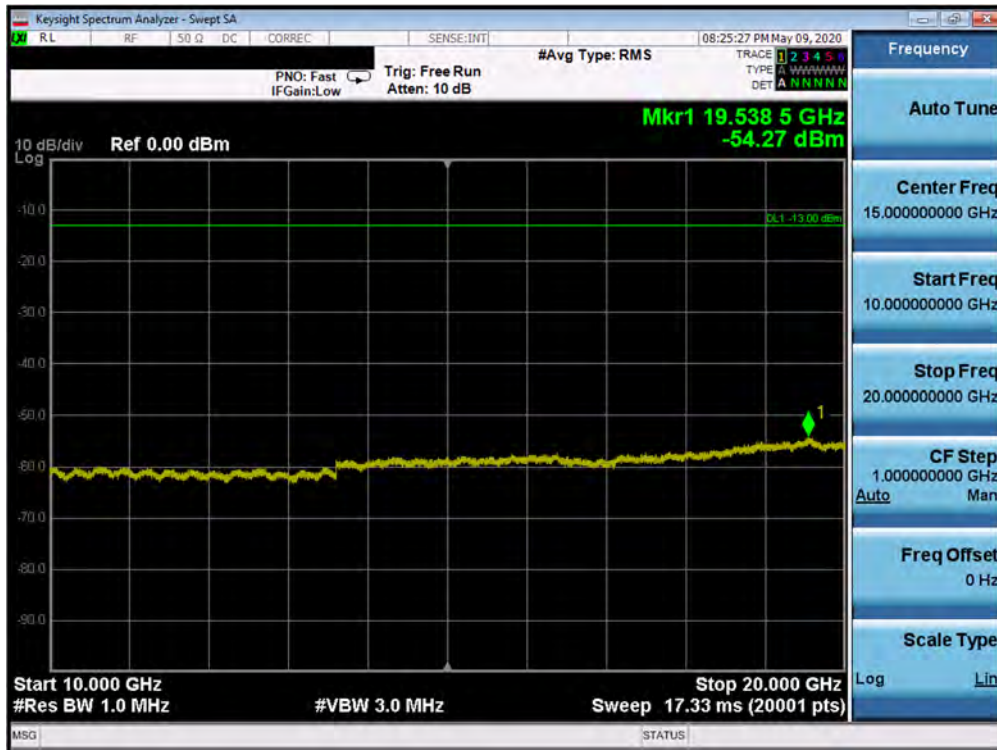


Plot 7-136. Conducted Spurious Plot (Band 2 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

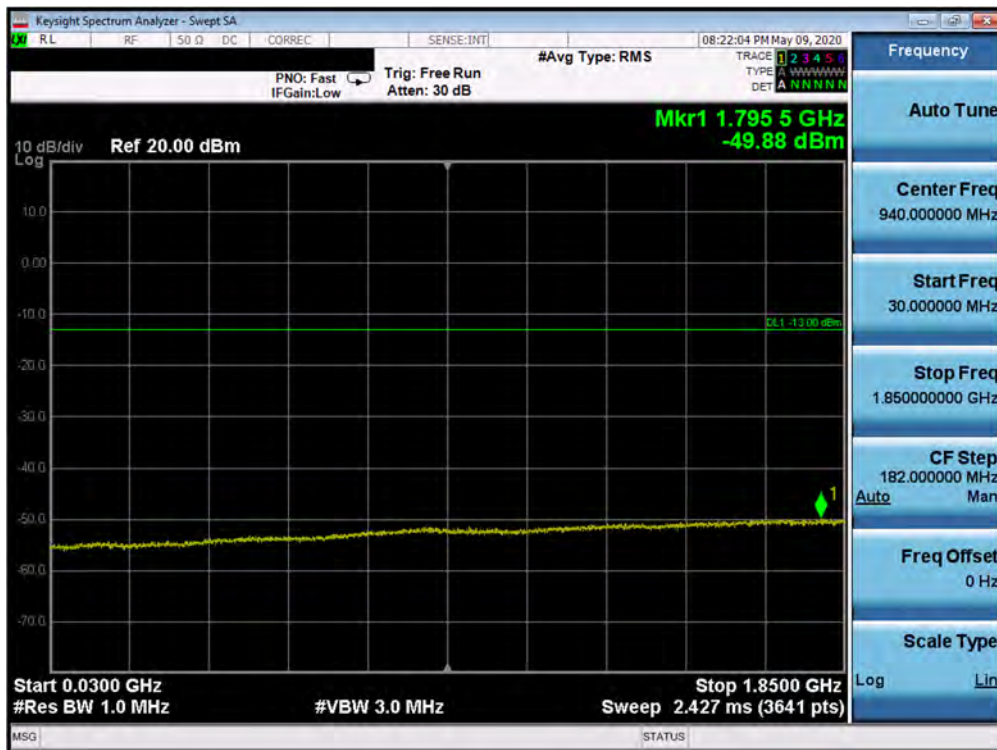


Plot 7-137. Conducted Spurious Plot (Band 2 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

FCC ID: A3LSMH303V	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2007010102-02-R1.A3L	Test Dates: 8/22 - 9/12/2020	EUT Type: Outdoor Customer Premises Equipment (CPE)		Page 88 of 284

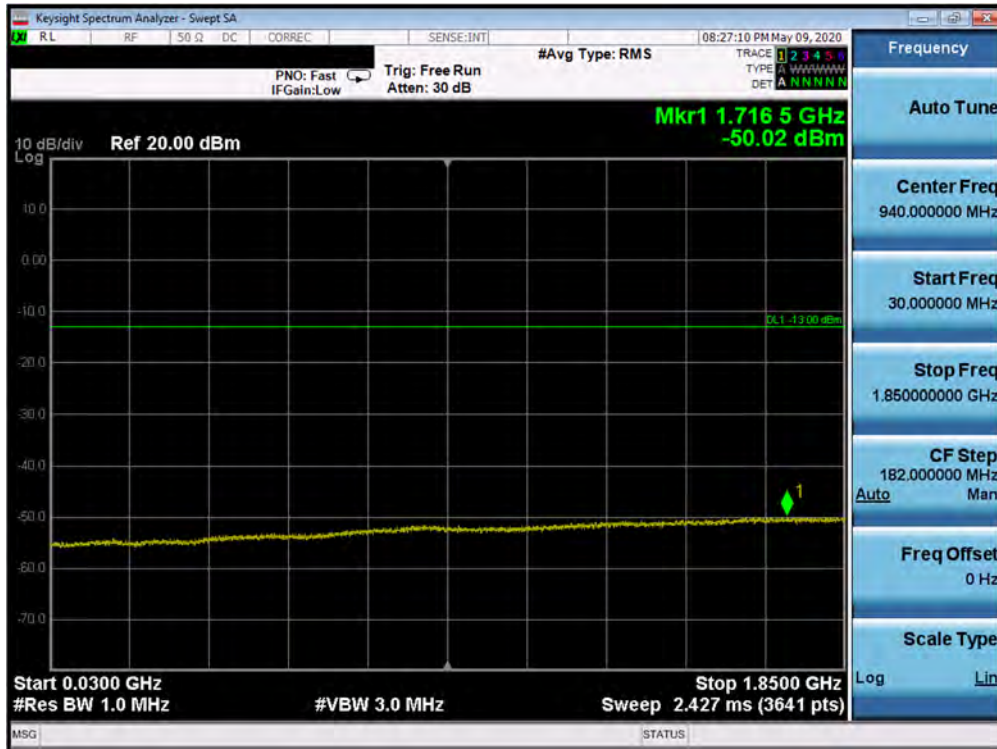


Plot 7-138. Conducted Spurious Plot (Band 2 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

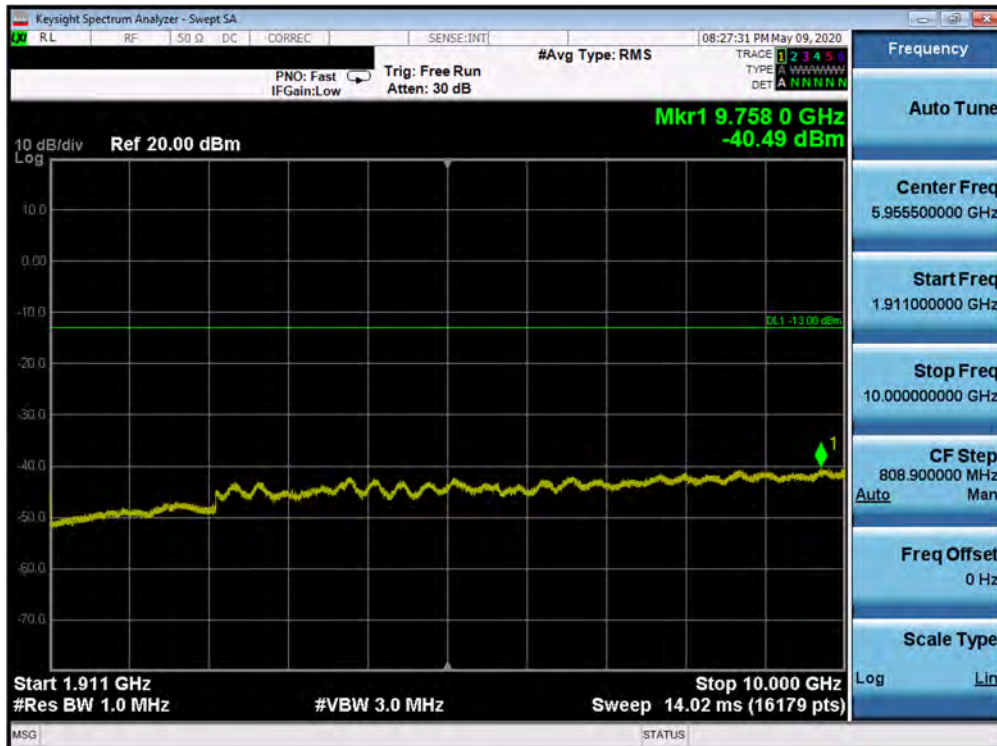


Plot 7-139. Conducted Spurious Plot (Band 2 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: A3LSMH303V	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2007010102-02-R1.A3L	Test Dates: 8/22 - 9/12/2020	EUT Type: Outdoor Customer Premises Equipment (CPE)		Page 89 of 284

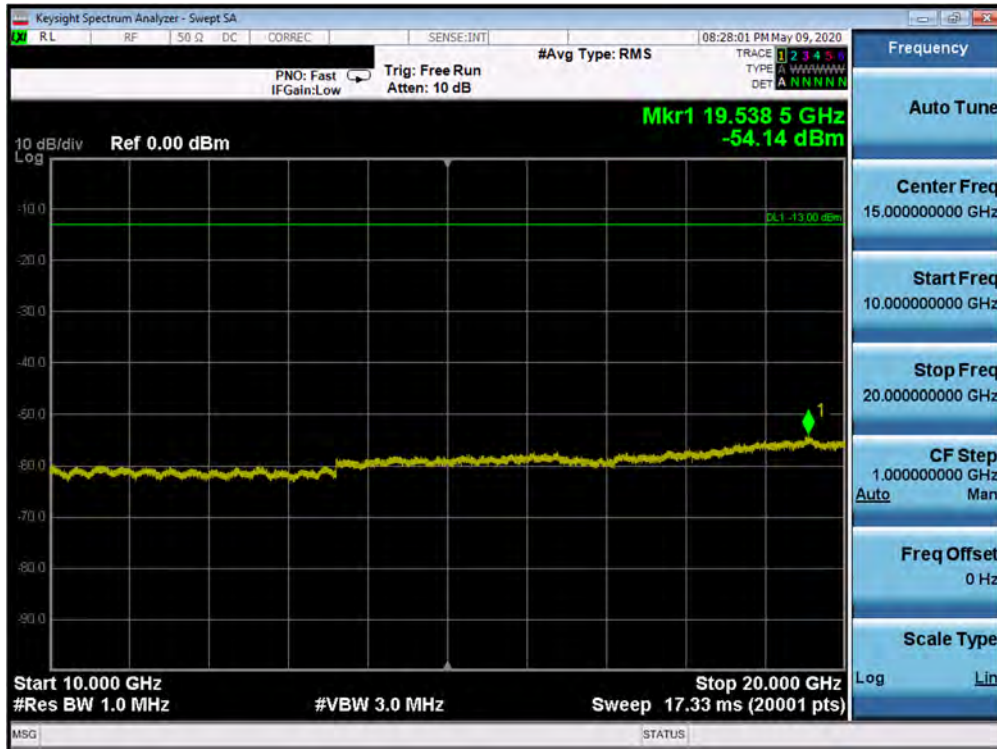


Plot 7-142. Conducted Spurious Plot (Band 2 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)



Plot 7-143. Conducted Spurious Plot (Band 2 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

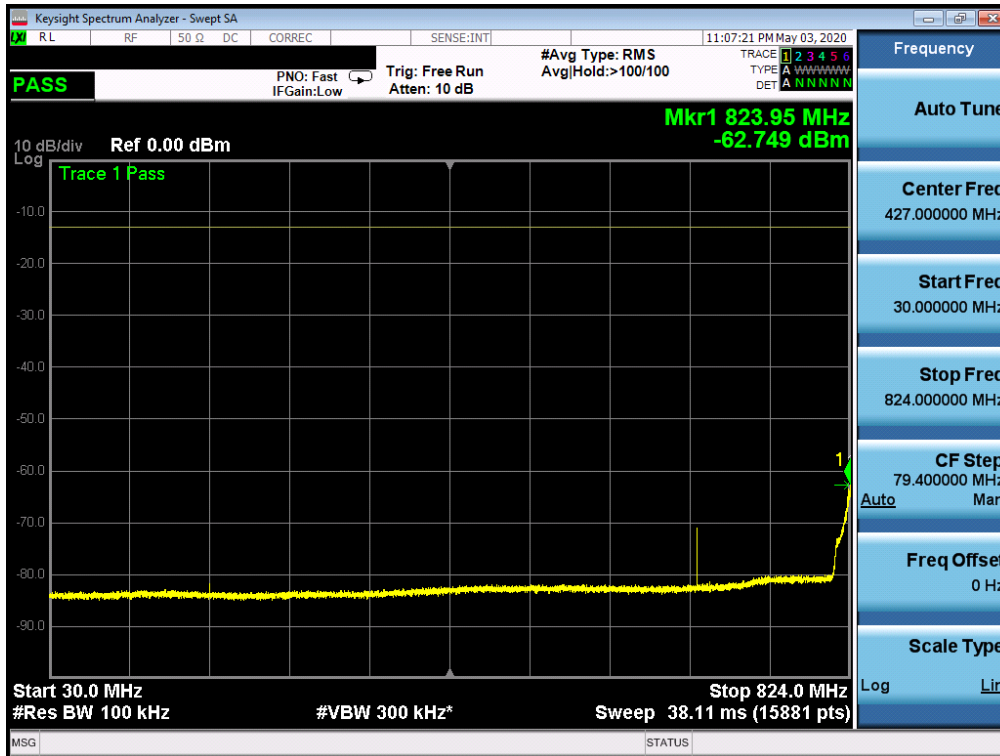
FCC ID: A3LSMH303V		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2007010102-02-R1.A3L	Test Dates: 8/22 - 9/12/2020	EUT Type: Outdoor Customer Premises Equipment (CPE)		Page 91 of 284



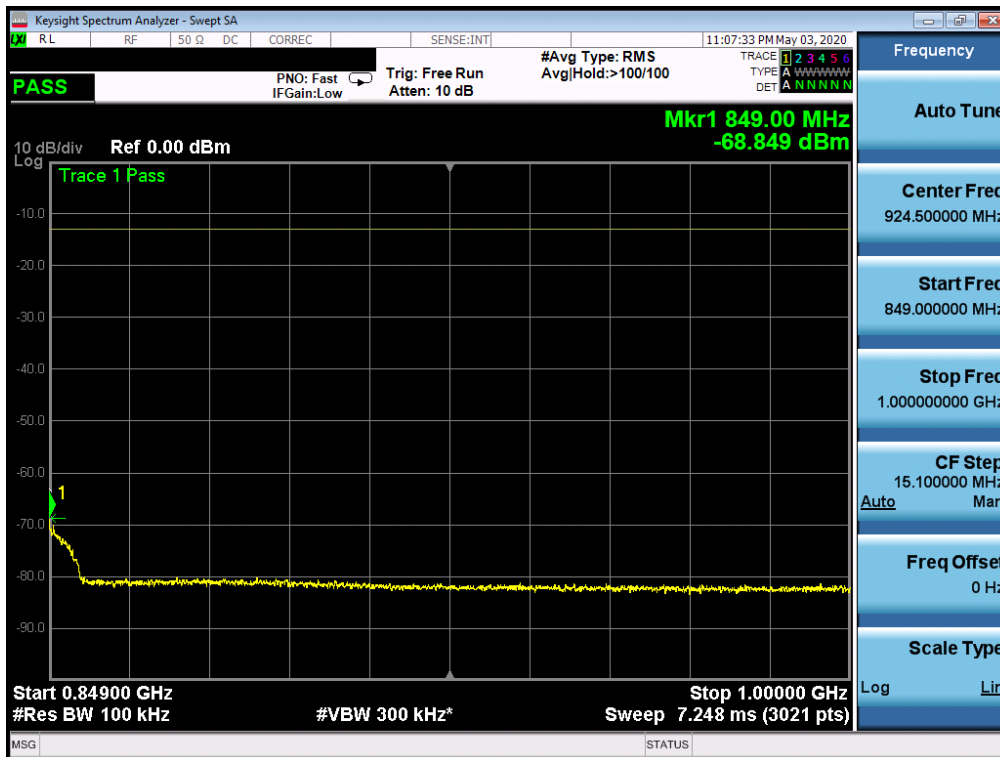
Plot 7-144. Conducted Spurious Plot (Band 2 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: A3LSMH303V	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2007010102-02-R1.A3L	Test Dates: 8/22 - 9/12/2020	EUT Type: Outdoor Customer Premises Equipment (CPE)		Page 92 of 284

NR Band n5

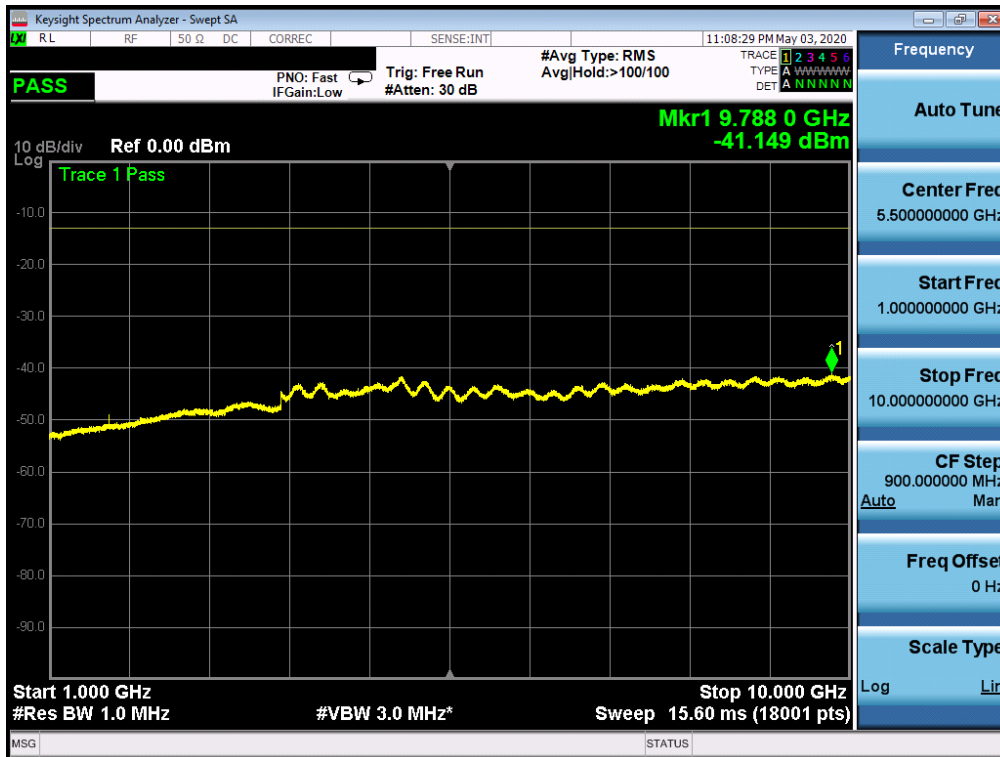


Plot 7-145. Conducted Spurious Plot (NR Band n5 -20.0MHz - RB Size 1, RB Offset 0 - Low Channel)

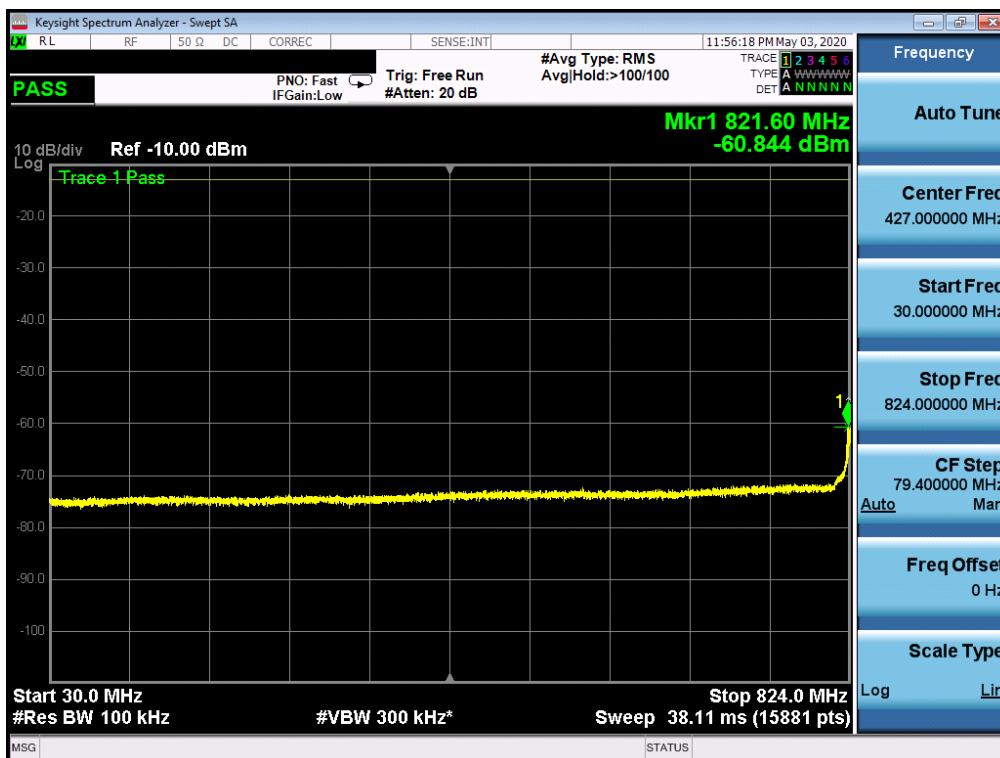


Plot 7-146. Conducted Spurious Plot (NR Band n5 - 20.0MHz - RB Size 1, RB Offset 0 - Low Channel)

FCC ID: A3LSMH303V		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2007010102-02-R1.A3L	Test Dates: 8/22 - 9/12/2020	EUT Type: Outdoor Customer Premises Equipment (CPE)		Page 93 of 284

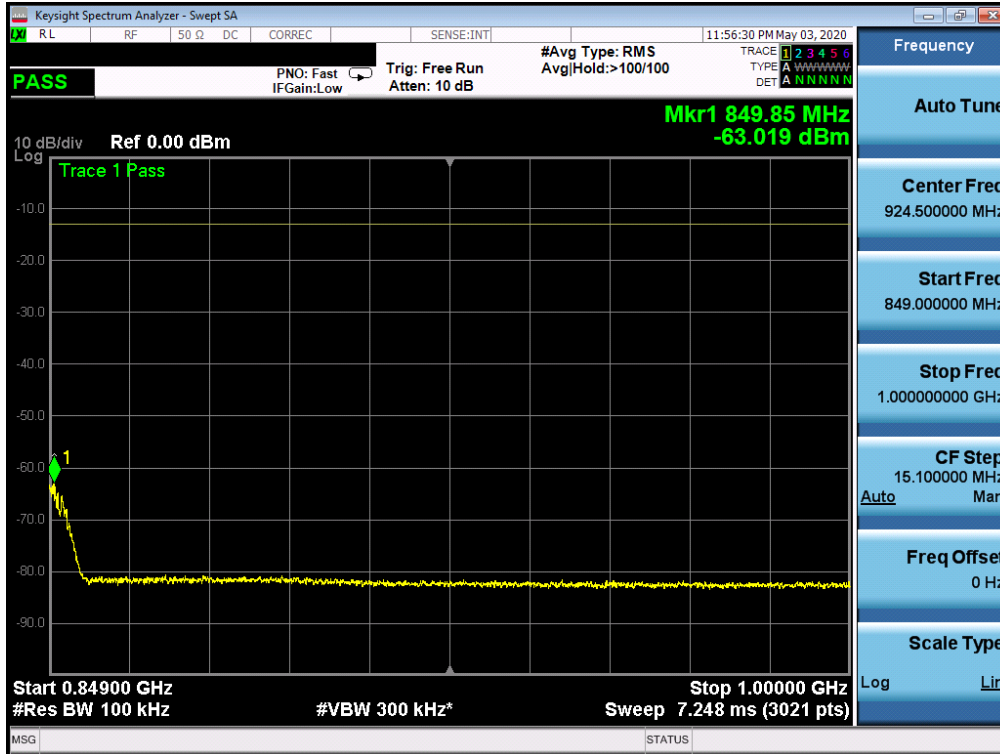


Plot 7-147. Conducted Spurious Plot (NR Band n5 - 20.0MHz - RB Size 1, RB Offset 0 - Low Channel)

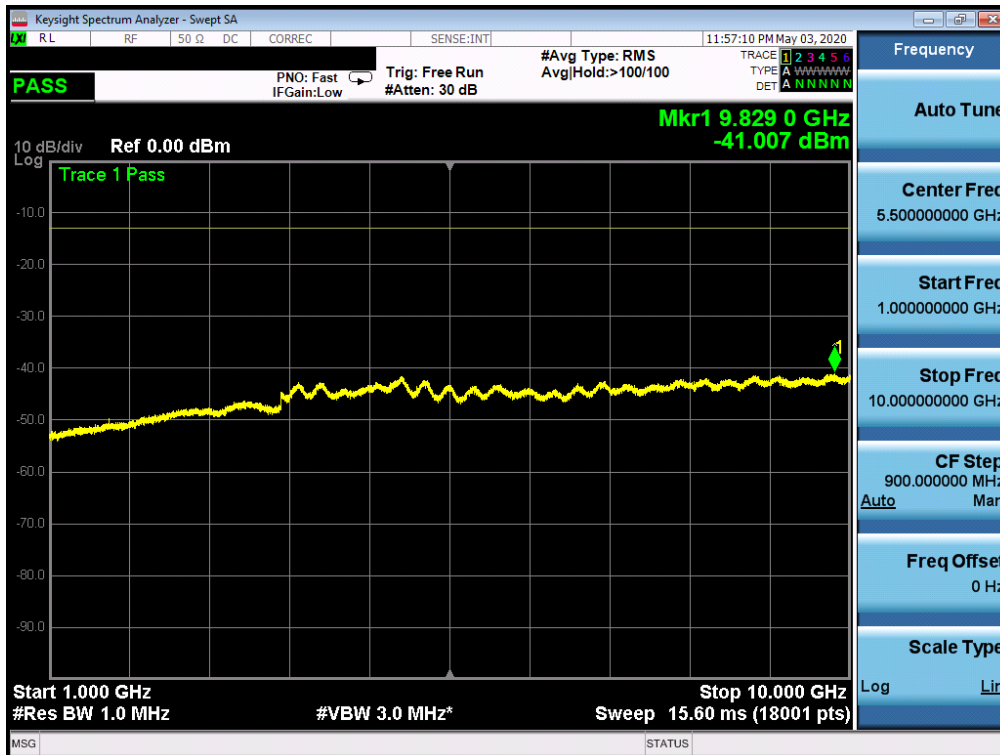


Plot 7-148. Conducted Spurious Plot (NR Band n5 - 20.0MHz - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: A3LSMH303V		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2007010102-02-R1.A3L	Test Dates: 8/22 - 9/12/2020	EUT Type: Outdoor Customer Premises Equipment (CPE)		Page 94 of 284

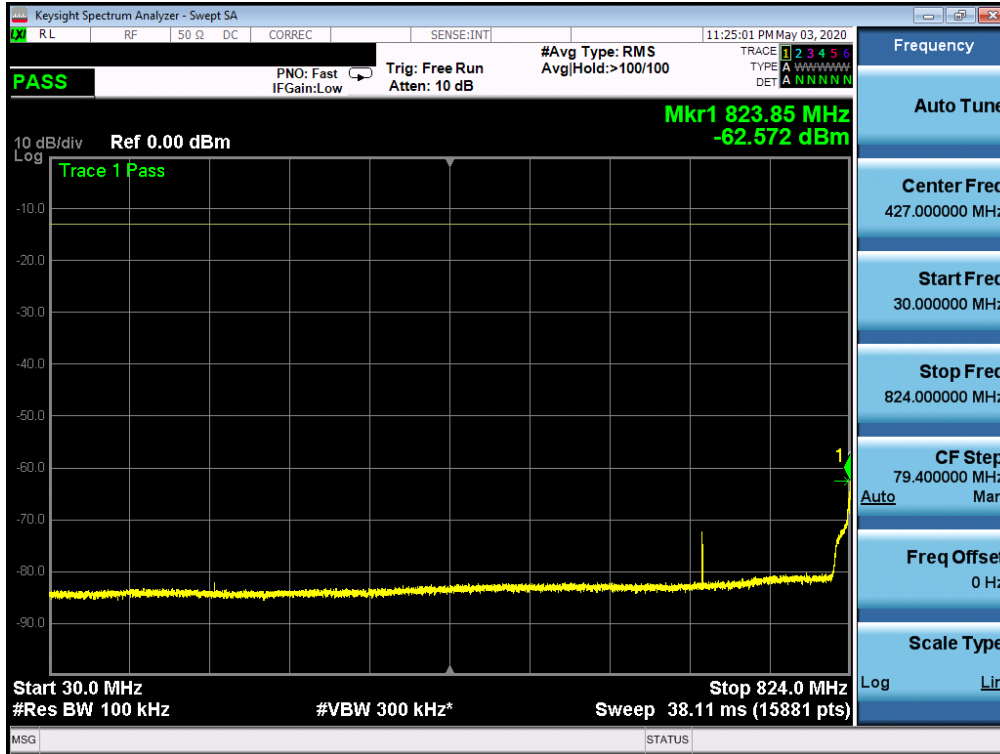


Plot 7-149. Conducted Spurious Plot (NR Band n5 - 20.0MHz - RB Size 1, RB Offset 0 - Mid Channel)

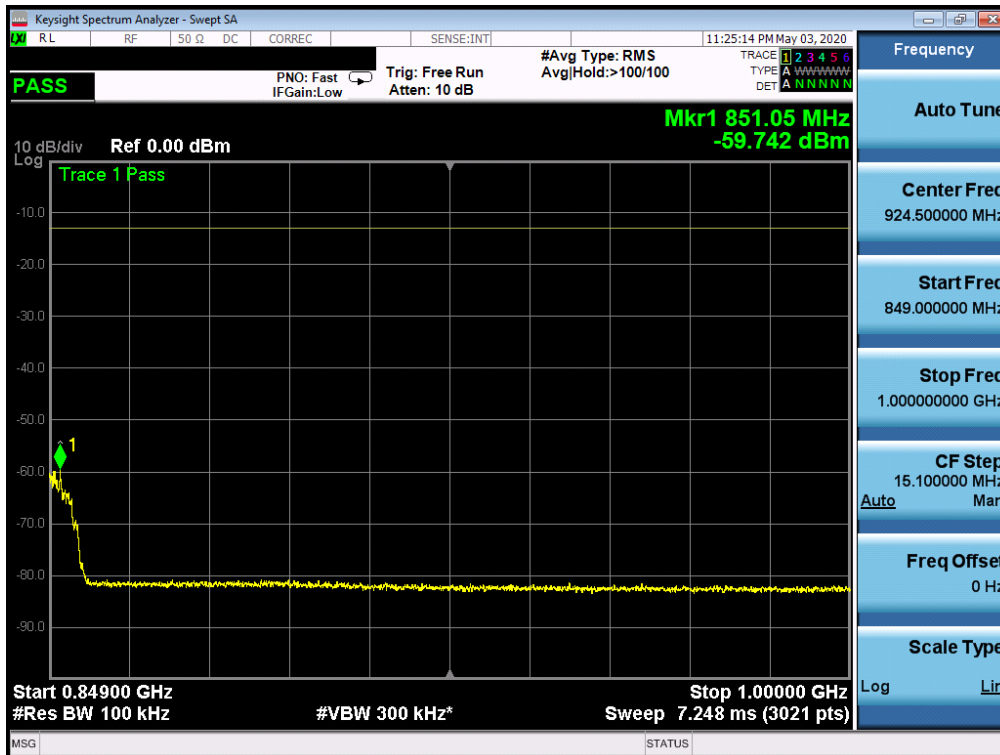


Plot 7-150. Conducted Spurious Plot (NR Band n5 - 20.0MHz - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: A3LSMH303V	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2007010102-02-R1.A3L	Test Dates: 8/22 - 9/12/2020	EUT Type: Outdoor Customer Premises Equipment (CPE)		Page 95 of 284



Plot 7-151. Conducted Spurious Plot (NR Band n5 - 20.0MHz - RB Size 1, RB Offset 0 - High Channel)



Plot 7-152. Conducted Spurious Plot (NR Band n5 - 20.0MHz - RB Size 1, RB Offset 0 - High Channel)

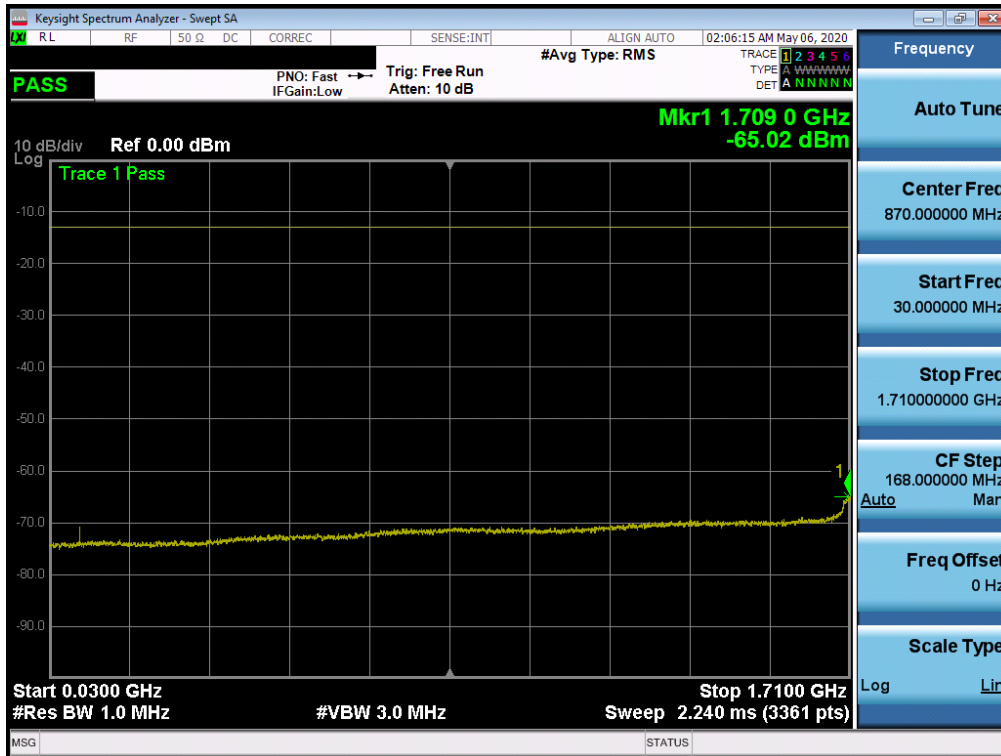
FCC ID: A3LSMH303V	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2007010102-02-R1.A3L	Test Dates: 8/22 - 9/12/2020	EUT Type: Outdoor Customer Premises Equipment (CPE)		Page 96 of 284



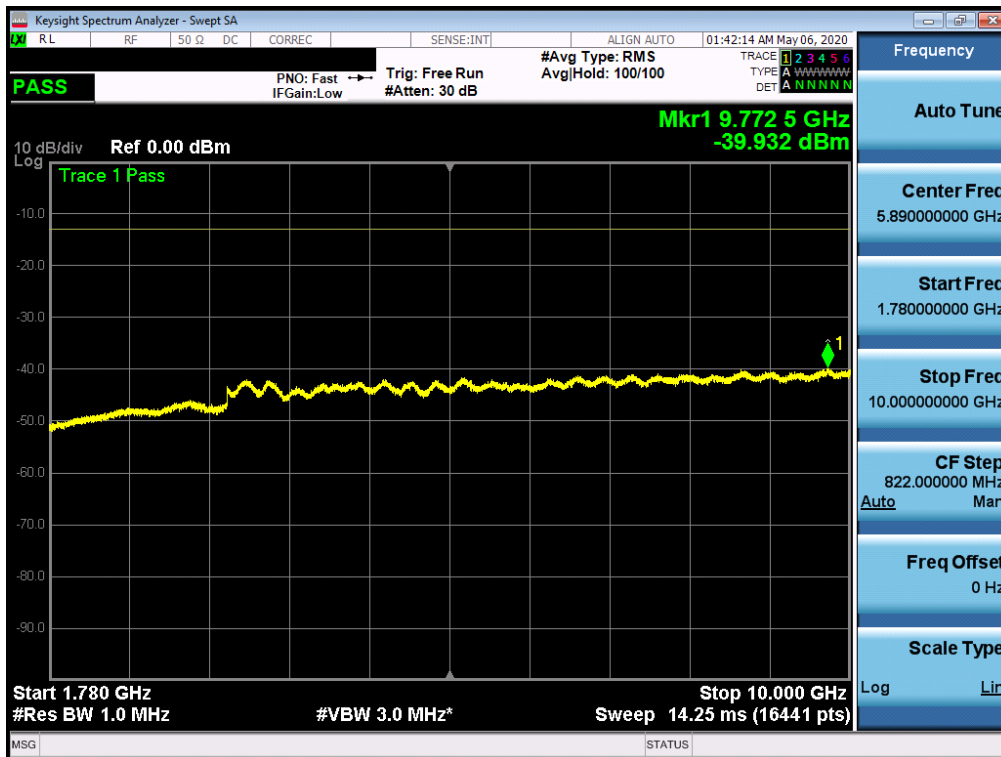
Plot 7-153. Conducted Spurious Plot (NR Band n5 - 20.0MHz - RB Size 1, RB Offset 0 - High Channel)

FCC ID: A3LSMH303V	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2007010102-02-R1.A3L	Test Dates: 8/22 - 9/12/2020	EUT Type: Outdoor Customer Premises Equipment (CPE)		Page 97 of 284

NR Band n66

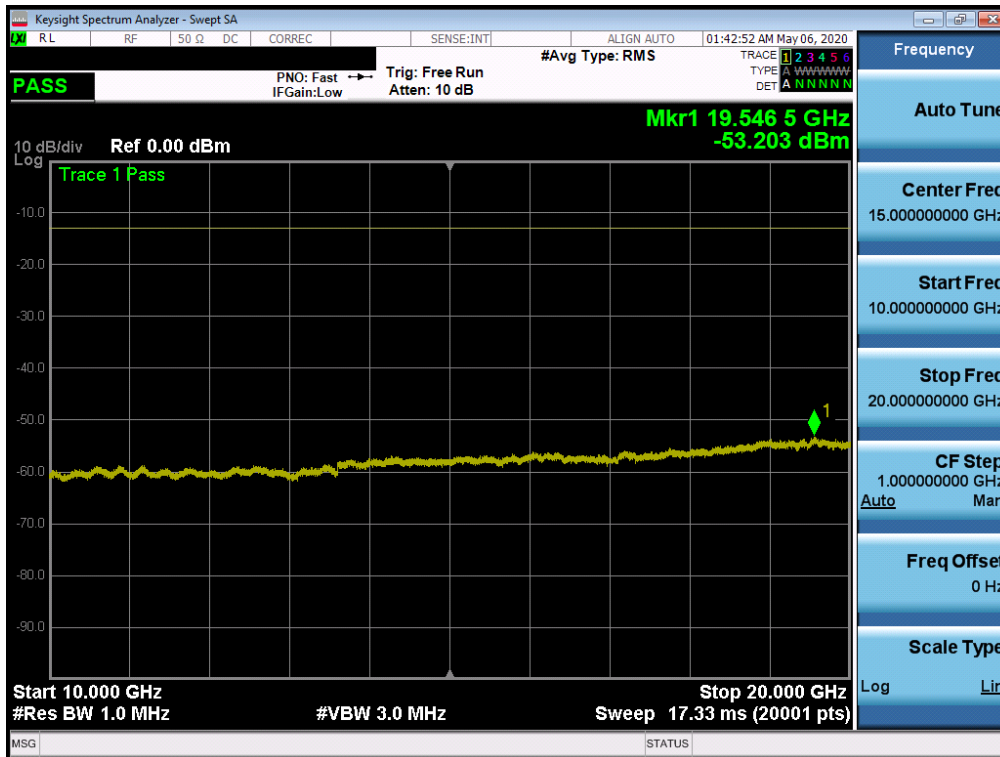


Plot 7-154. Conducted Spurious Plot (NR Band n66 -20.0MHz - RB Size 1, RB Offset 0 - Low Channel)

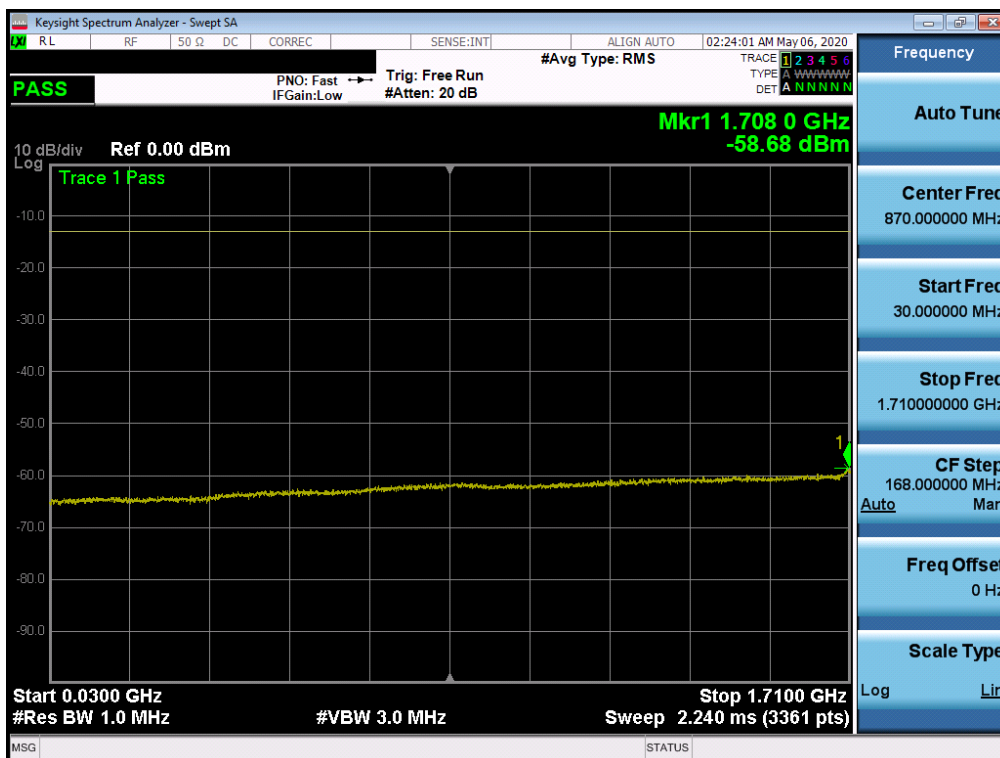


Plot 7-155. Conducted Spurious Plot (NR Band n66 - 20.0MHz - RB Size 1, RB Offset 0 - Low Channel)

FCC ID: A3LSMH303V		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2007010102-02-R1.A3L	Test Dates: 8/22 - 9/12/2020	EUT Type: Outdoor Customer Premises Equipment (CPE)		Page 98 of 284



Plot 7-156. Conducted Spurious Plot (NR Band n66 - 20.0MHz - RB Size 1, RB Offset 0 - Low Channel)

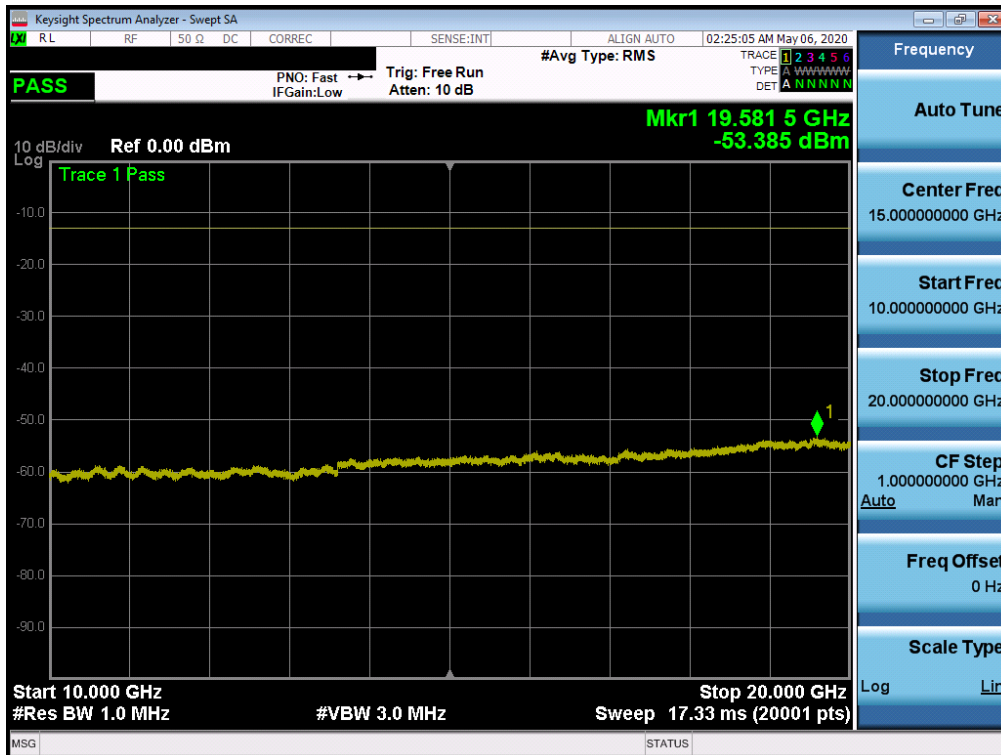


Plot 7-157. Conducted Spurious Plot (NR Band n66 - 20.0MHz - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: A3LSMH303V		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2007010102-02-R1.A3L	Test Dates: 8/22 - 9/12/2020	EUT Type: Outdoor Customer Premises Equipment (CPE)		Page 99 of 284

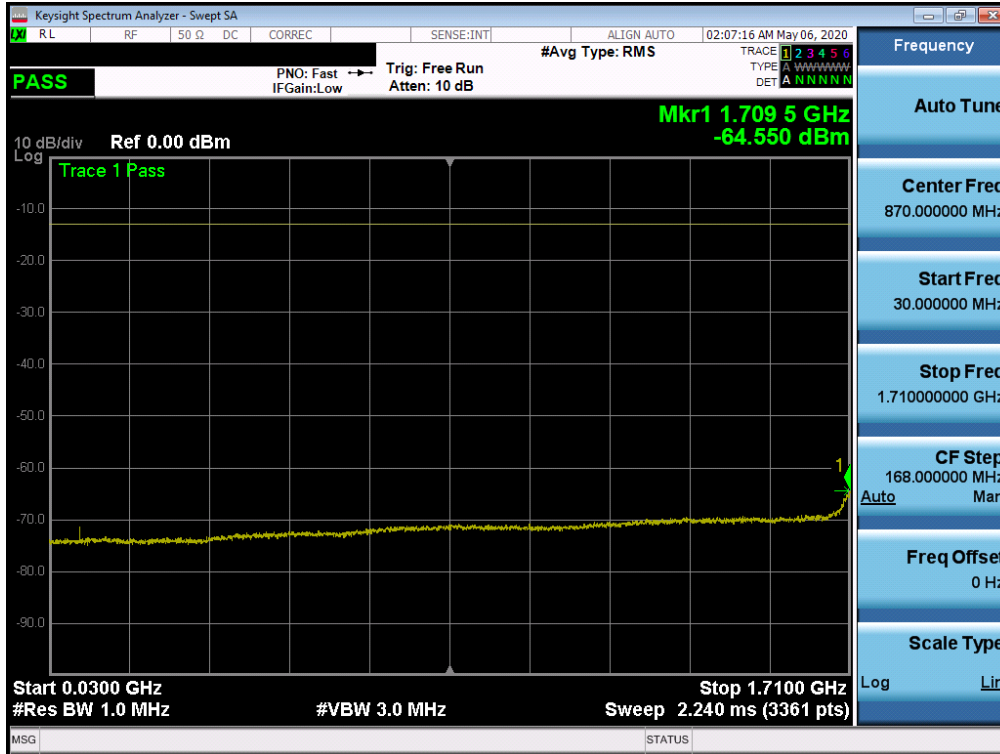


Plot 7-158. Conducted Spurious Plot (NR Band n66 - 20.0MHz - RB Size 1, RB Offset 0 - Mid Channel)

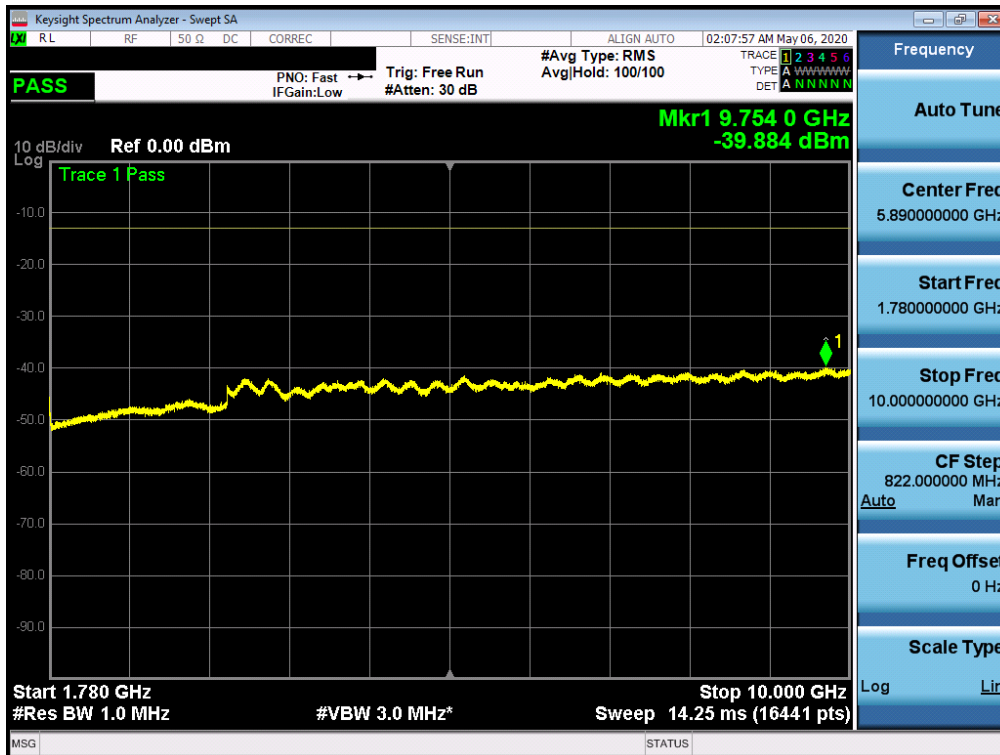


Plot 7-159. Conducted Spurious Plot (NR Band n66 - 20.0MHz - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: A3LSMH303V	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2007010102-02-R1.A3L	Test Dates: 8/22 - 9/12/2020	EUT Type: Outdoor Customer Premises Equipment (CPE)		Page 100 of 284

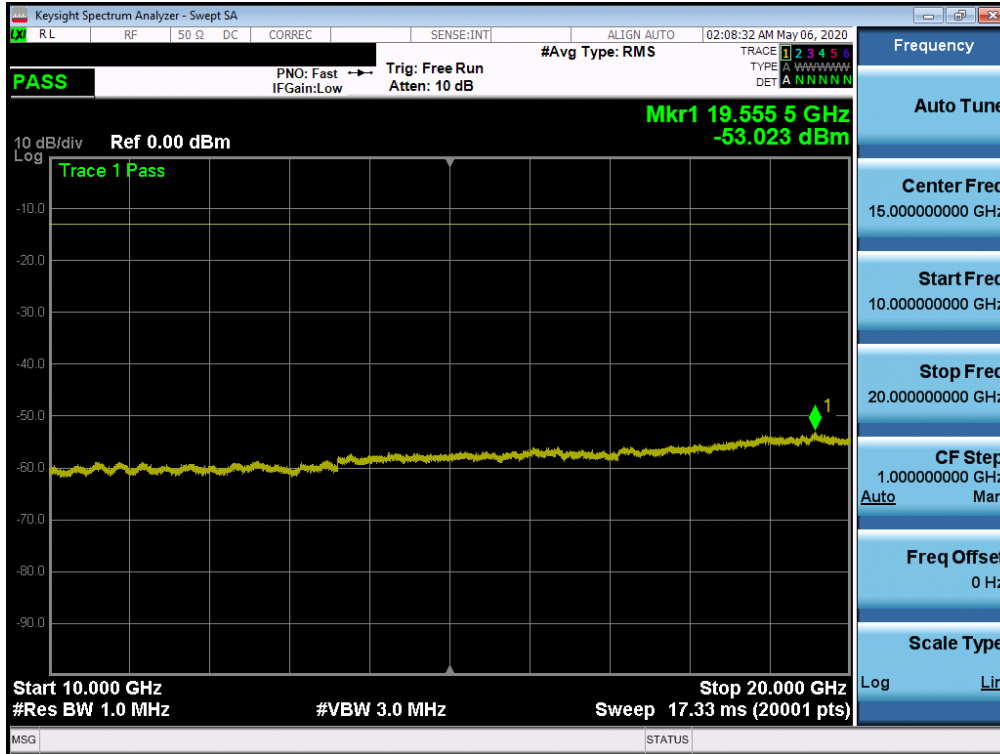


Plot 7-160. Conducted Spurious Plot (NR Band n66 - 20.0MHz - RB Size 1, RB Offset 0 - High Channel)



Plot 7-161. Conducted Spurious Plot (NR Band n66 - 20.0MHz - RB Size 1, RB Offset 0 - High Channel)

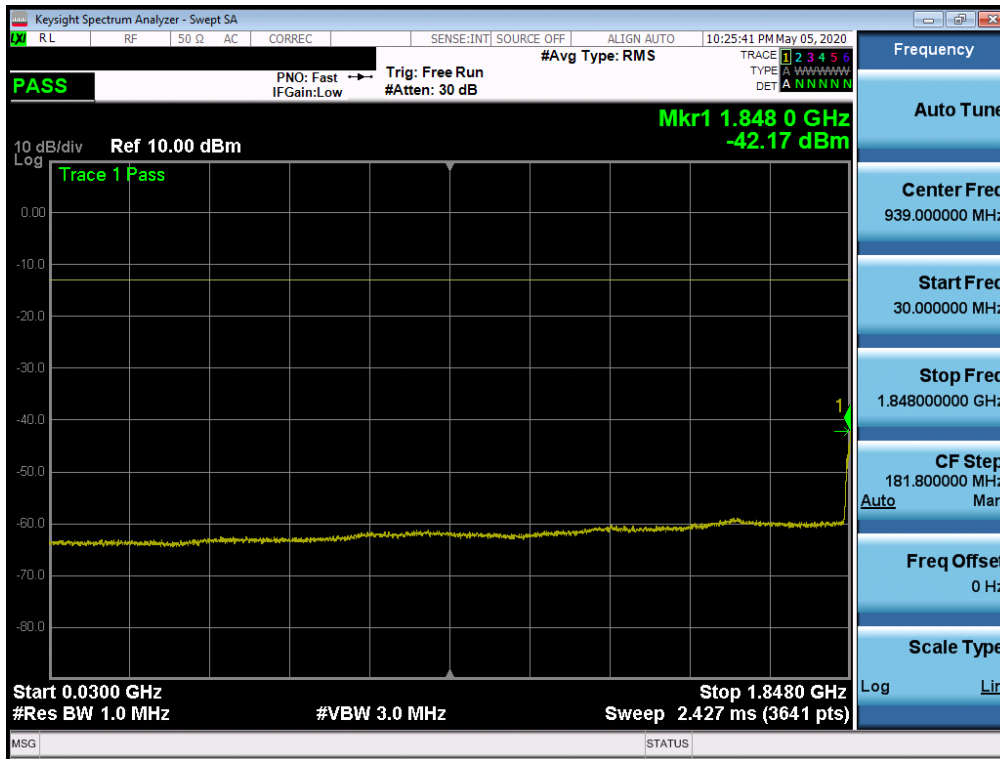
FCC ID: A3LSMH303V		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2007010102-02-R1.A3L	Test Dates: 8/22 - 9/12/2020	EUT Type: Outdoor Customer Premises Equipment (CPE)		Page 101 of 284



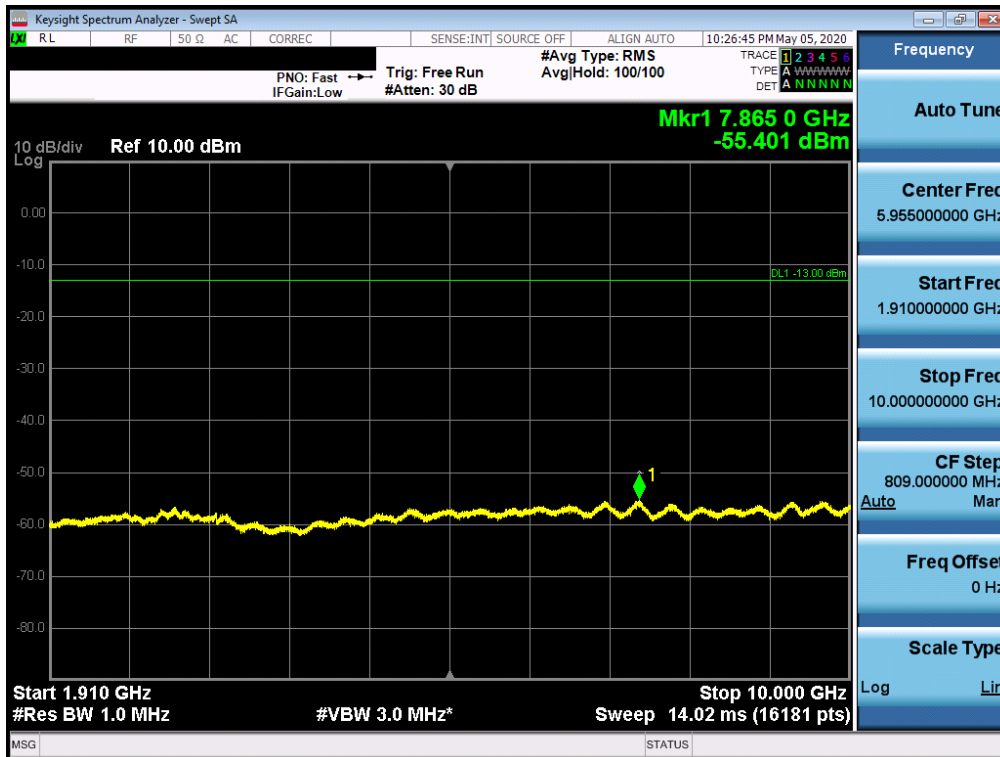
Plot 7-162. Conducted Spurious Plot (NR Band n66 - 20.0MHz - RB Size 1, RB Offset 0 - High Channel)

FCC ID: A3LSMH303V	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2007010102-02-R1.A3L	Test Dates: 8/22 - 9/12/2020	EUT Type: Outdoor Customer Premises Equipment (CPE)		Page 102 of 284

NR Band n2

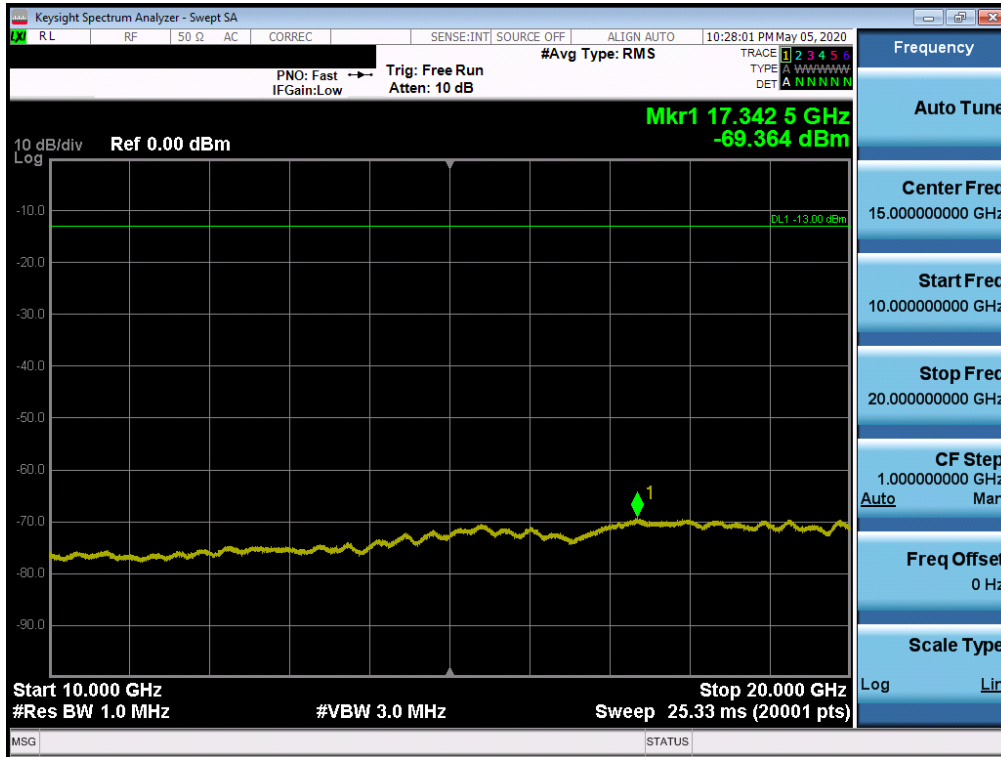


Plot 7-163. Conducted Spurious Plot (NR Band n2 -20.0MHz - RB Size 1, RB Offset 0 - Low Channel)

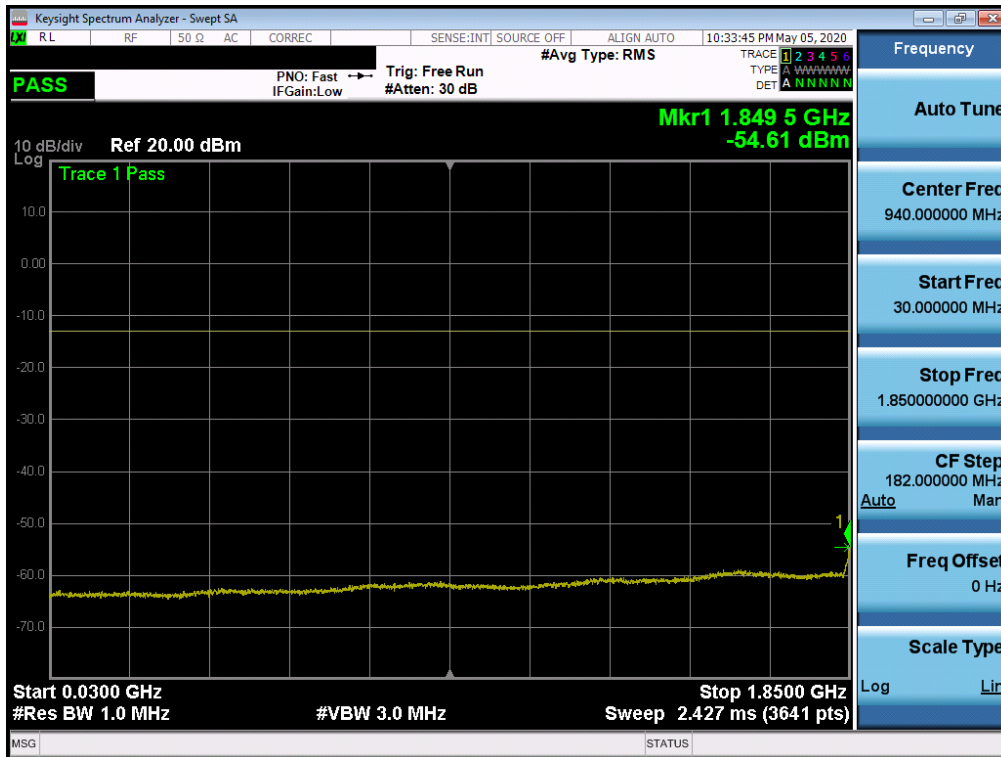


Plot 7-164. Conducted Spurious Plot (NR Band n2 - 20.0MHz - RB Size 1, RB Offset 0 - Low Channel)

FCC ID: A3LSMH303V		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2007010102-02-R1.A3L	Test Dates: 8/22 - 9/12/2020	EUT Type: Outdoor Customer Premises Equipment (CPE)	Page 103 of 284	

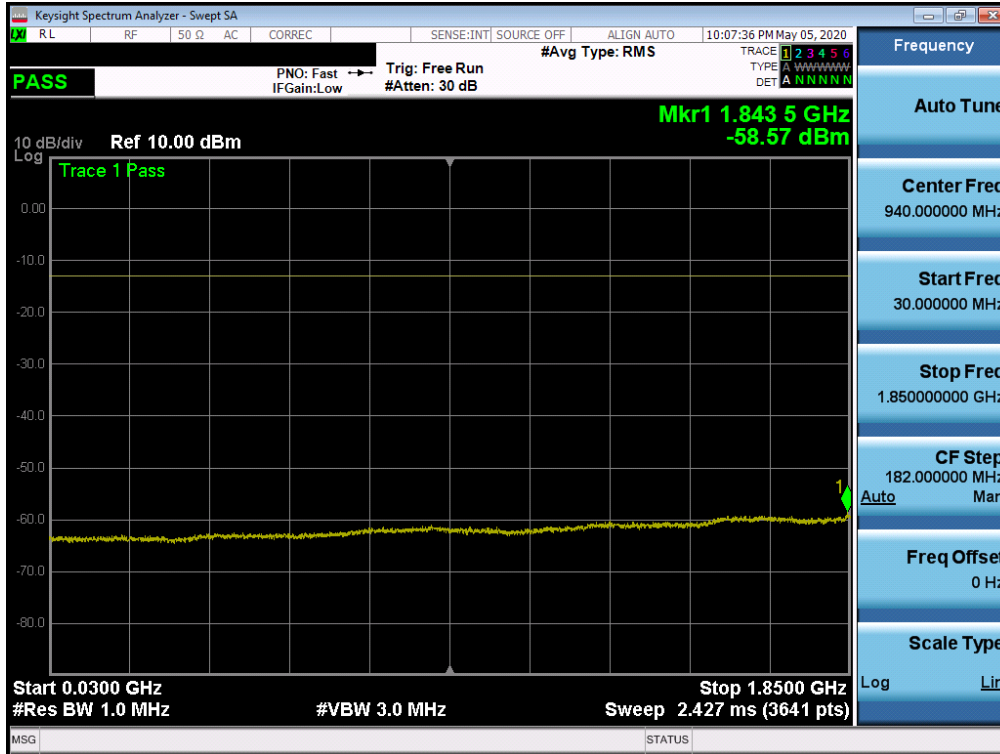


Plot 7-165. Conducted Spurious Plot (NR Band n2 - 20.0MHz - RB Size 1, RB Offset 0 - Low Channel)

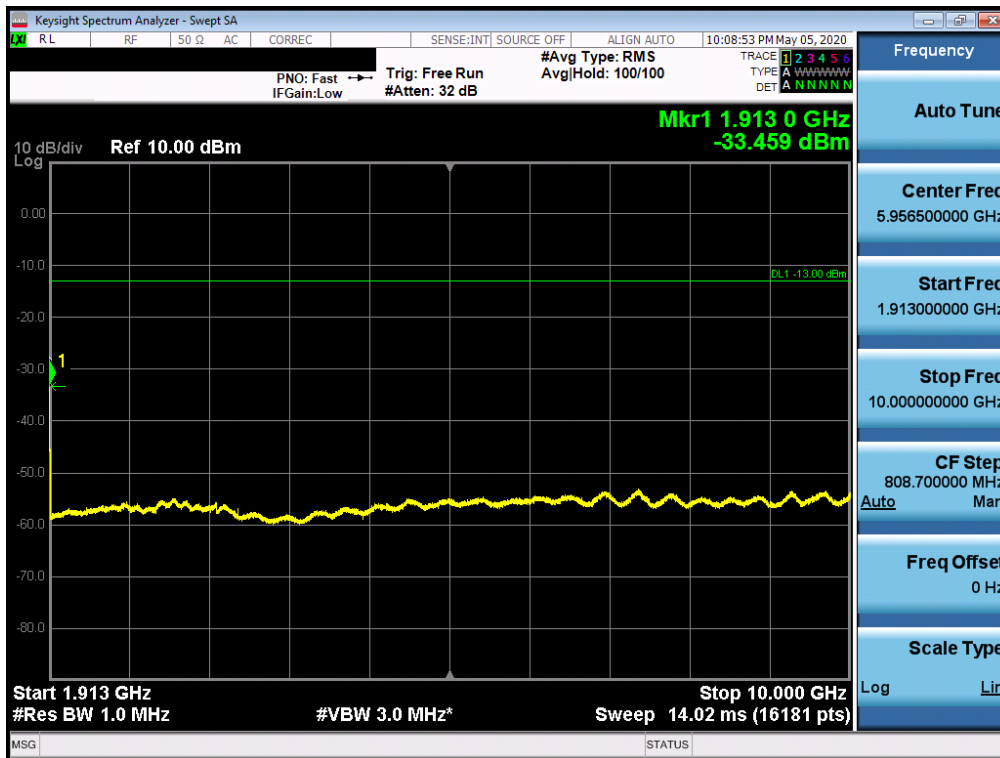


Plot 7-166. Conducted Spurious Plot (NR Band n2 - 20.0MHz - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: A3LSMH303V	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2007010102-02-R1.A3L	Test Dates: 8/22 - 9/12/2020	EUT Type: Outdoor Customer Premises Equipment (CPE)		Page 104 of 284

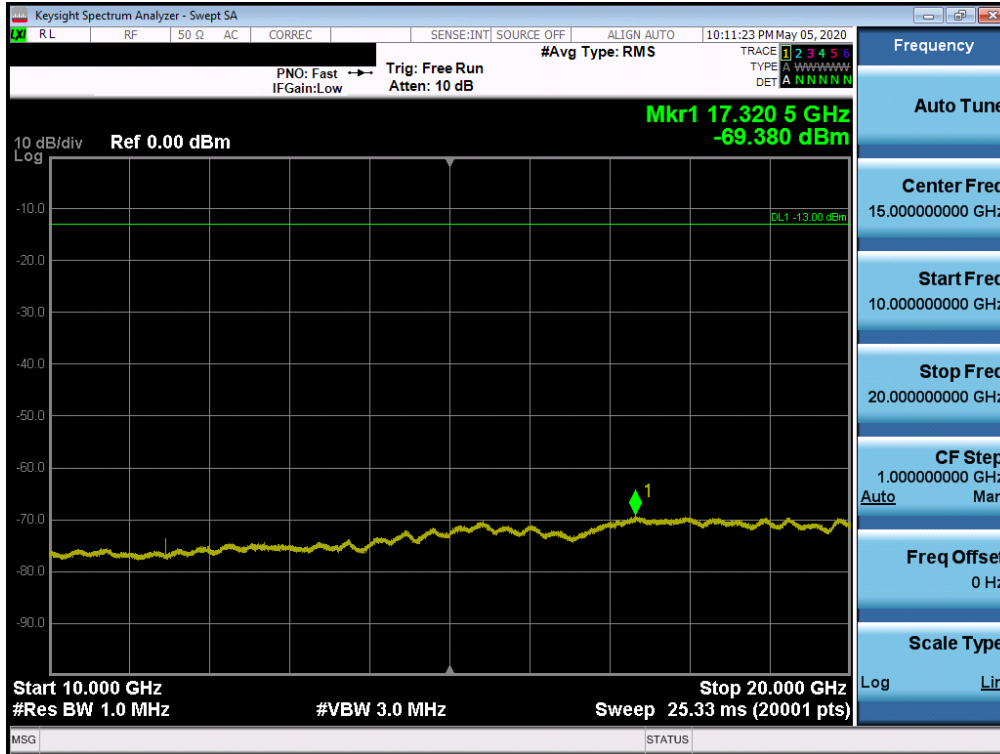


Plot 7-169. Conducted Spurious Plot (NR Band n2 - 20.0MHz - RB Size 1, RB Offset 0 - High Channel)



Plot 7-170. Conducted Spurious Plot (NR Band n2 - 20.0MHz - RB Size 1, RB Offset 0 - High Channel)

FCC ID: A3LSMH303V		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2007010102-02-R1.A3L	Test Dates: 8/22 - 9/12/2020	EUT Type: Outdoor Customer Premises Equipment (CPE)		Page 106 of 284



Plot 7-171. Conducted Spurious Plot (NR Band n2 - 20.0MHz - RB Size 1, RB Offset 0 - High Channel)

FCC ID: A3LSMH303V	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2007010102-02-R1.A3L	Test Dates: 8/22 - 9/12/2020	EUT Type: Outdoor Customer Premises Equipment (CPE)		Page 107 of 284

7.4 Band Edge Emissions at Antenna Terminal

Test Overview

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

The minimum permissible attenuation level of any spurious emission is $43 + 10 \log_{10}(P_{[Watts]})$, 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
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: A3LSMH303V		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2007010102-02-R1.A3L	Test Dates: 8/22 - 9/12/2020	EUT Type: Outdoor Customer Premises Equipment (CPE)		Page 108 of 284

Test Notes

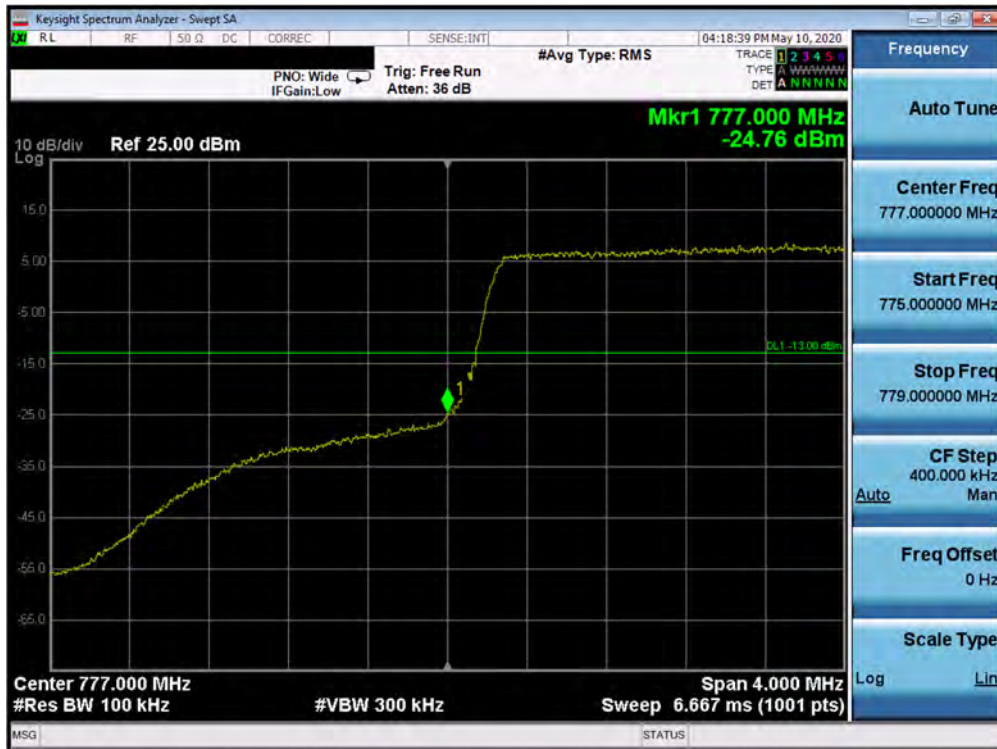
Per 22.917(b), 24.238(a), and 27.53(h), in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to demonstrate compliance with the out-of-band emissions 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(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.

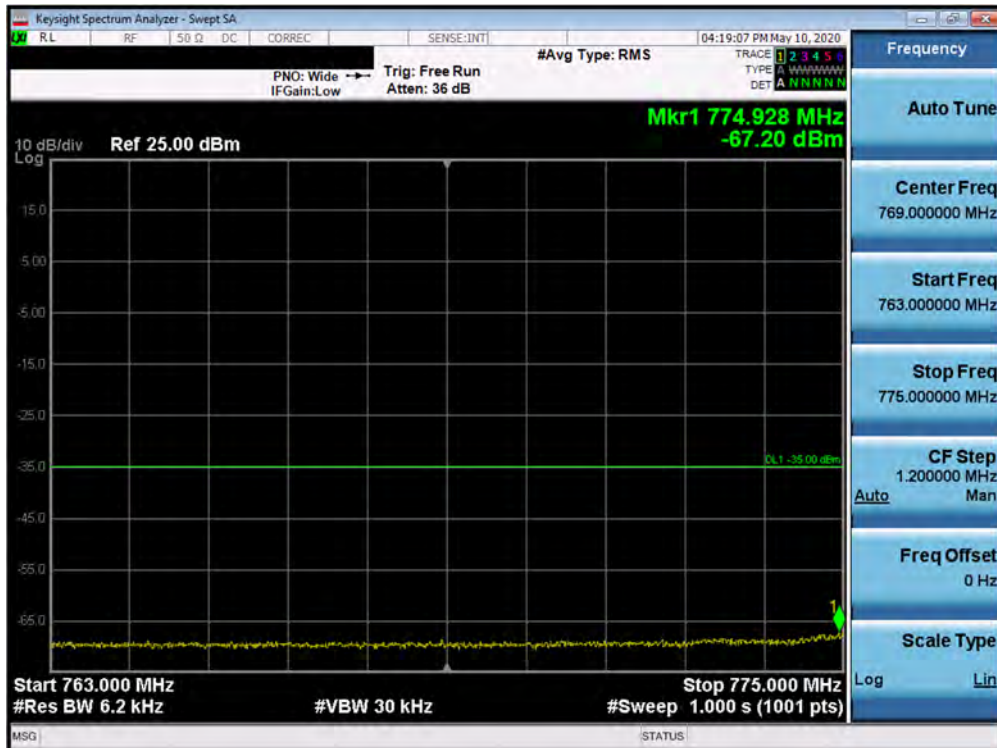
For all plots showing emissions in the 763 – 775MHz and 793 – 805MHz band, the FCC limit per 27.53(c)(4) is $65 + 10 \log_{10}(P) = -35\text{dBm}$ in a 6.25kHz bandwidth.

FCC ID: A3LSMH303V		MEASUREMENT REPORT (CERTIFICATION)	 Approved by: Quality Manager
Test Report S/N: 1M2007010102-02-R1.A3L	Test Dates: 8/22 - 9/12/2020	EUT Type: Outdoor Customer Premises Equipment (CPE)	Page 109 of 284

Band 13

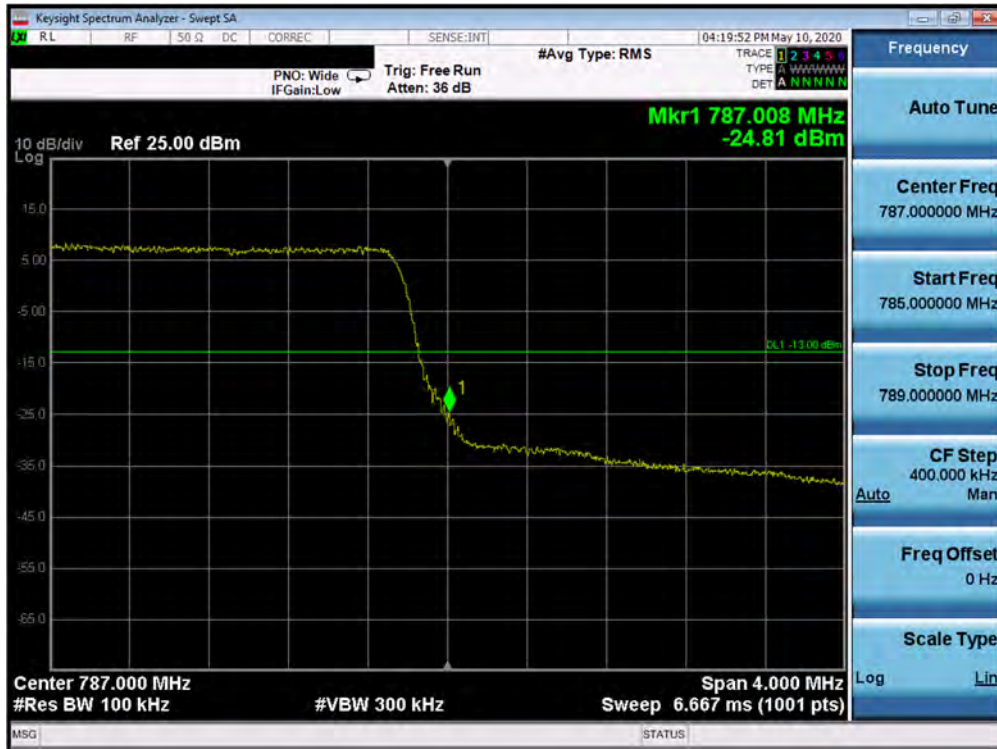


Plot 7-172. Lower Band Edge Plot (Band 13 - 5.0MHz QPSK - Full RB Configuration)

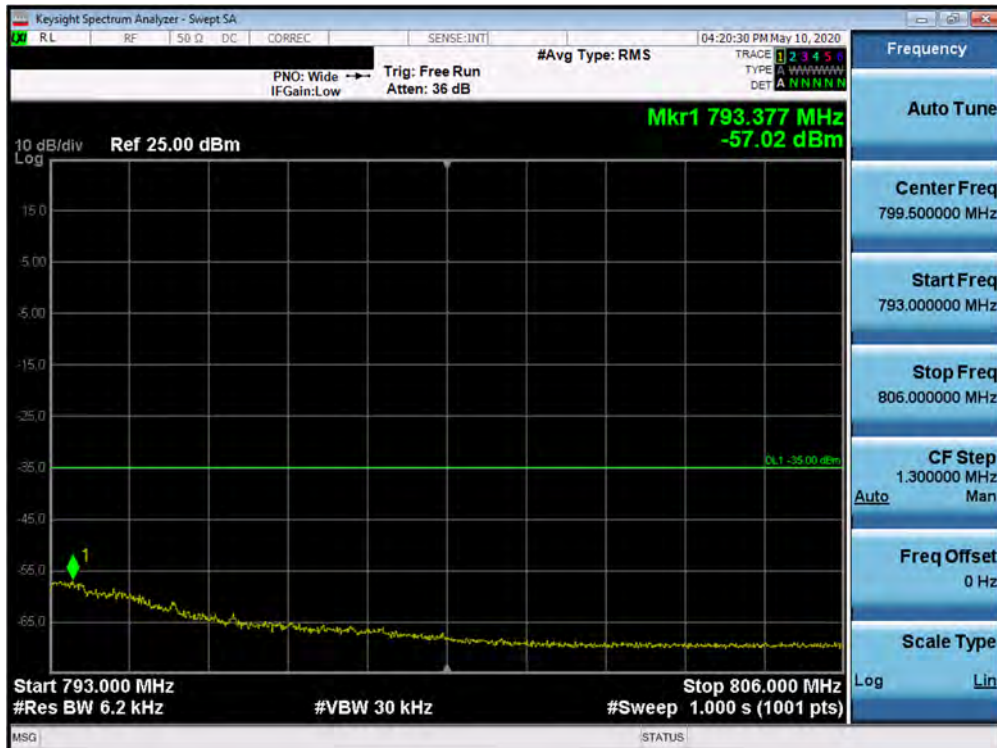


Plot 7-173. Lower Emission Mask Plot (Band 13 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMH303V		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2007010102-02-R1.A3L	Test Dates: 8/22 - 9/12/2020	EUT Type: Outdoor Customer Premises Equipment (CPE)		Page 110 of 284

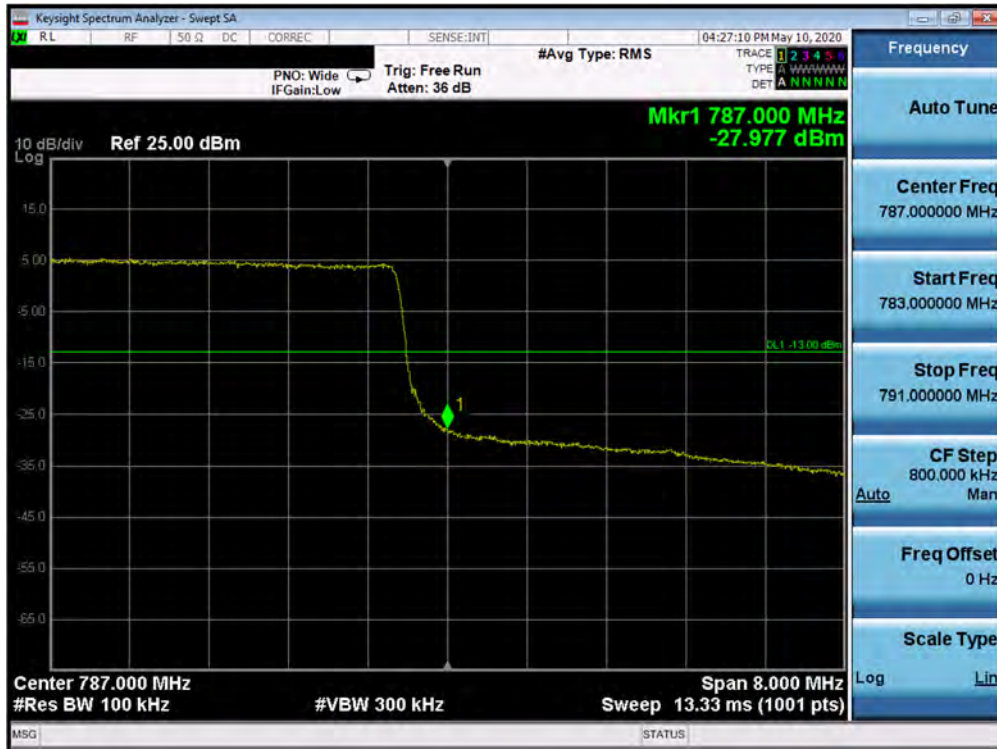


Plot 7-174. Upper Band Edge Plot (Band 13 - 5.0MHz QPSK - Full RB Configuration)



Plot 7-175. Upper Emission Mask Plot (Band 13 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMH303V	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2007010102-02-R1.A3L	Test Dates: 8/22 - 9/12/2020	EUT Type: Outdoor Customer Premises Equipment (CPE)		Page 111 of 284



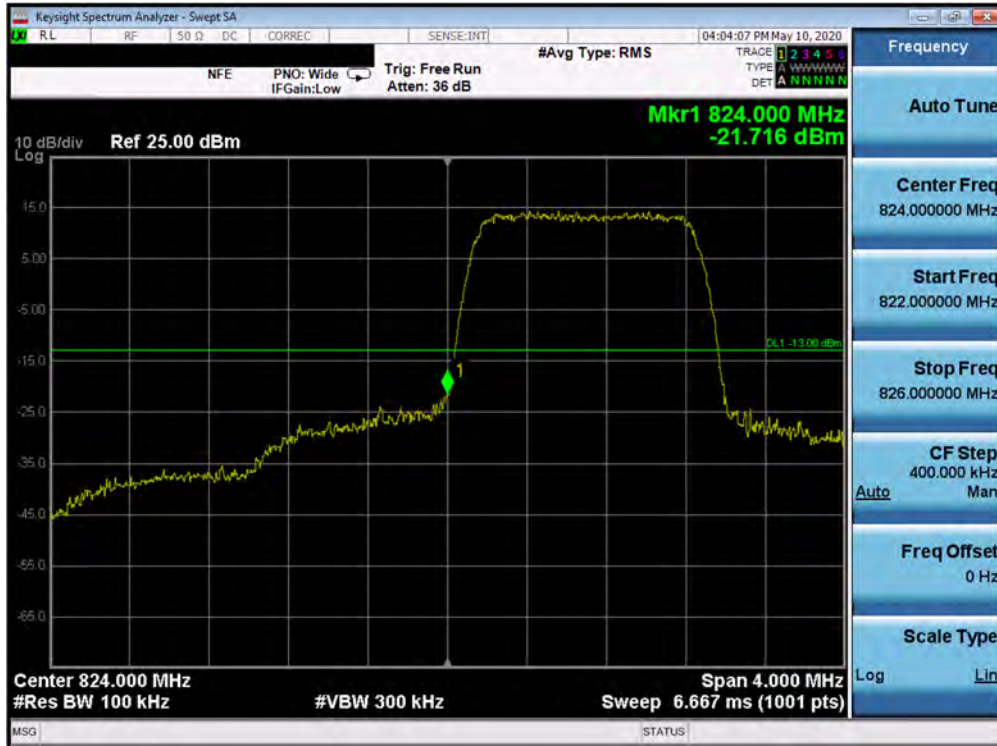
Plot 7-178. Upper Band Edge Plot (Band 13 - 10.0MHz QPSK - Full RB Configuration)



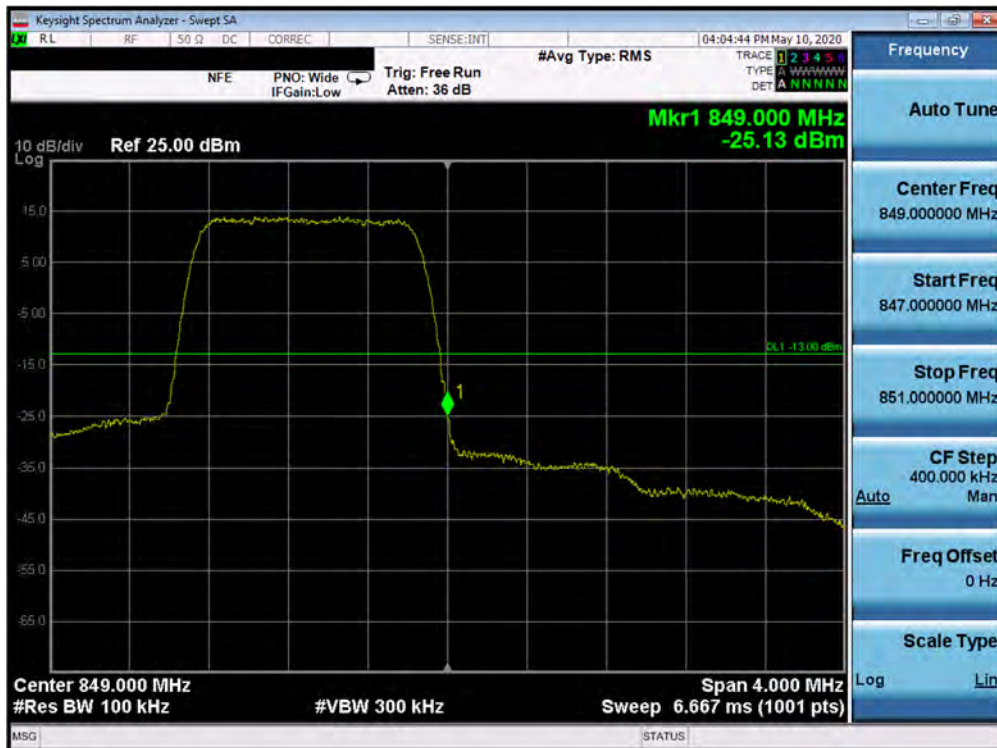
Plot 7-179. Upper Emission Mask Plot (Band 13 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMH303V	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2007010102-02-R1.A3L	Test Dates: 8/22 - 9/12/2020	EUT Type: Outdoor Customer Premises Equipment (CPE)		Page 113 of 284

Band 5

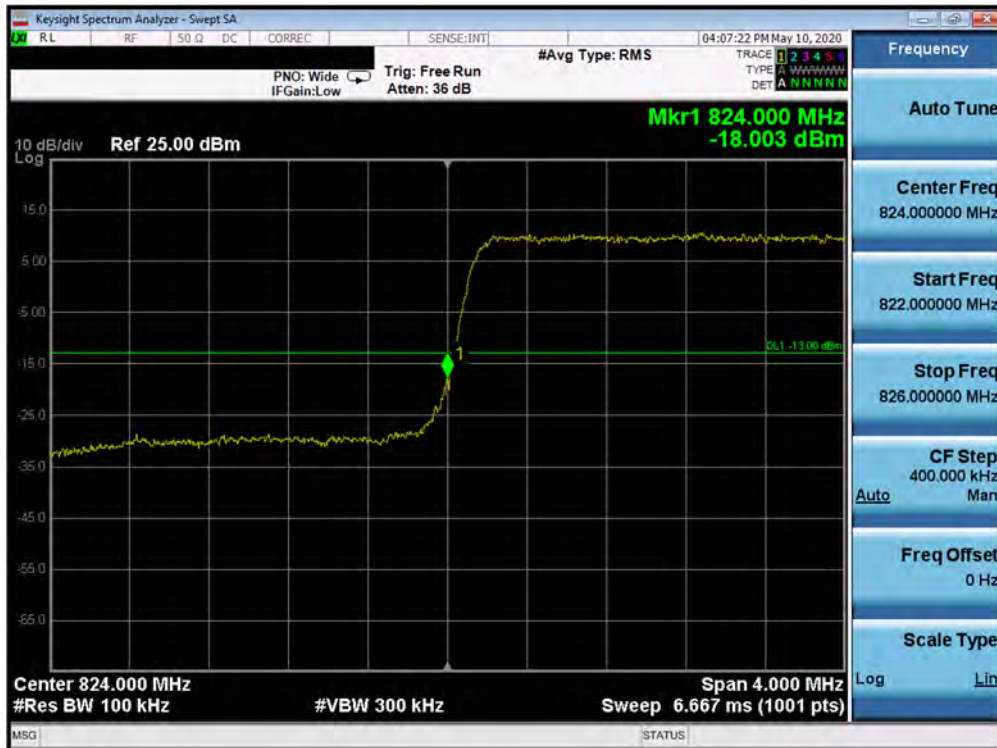


Plot 7-180. Lower Band Edge Plot (Band 5 - 1.4MHz QPSK - Full RB Configuration)

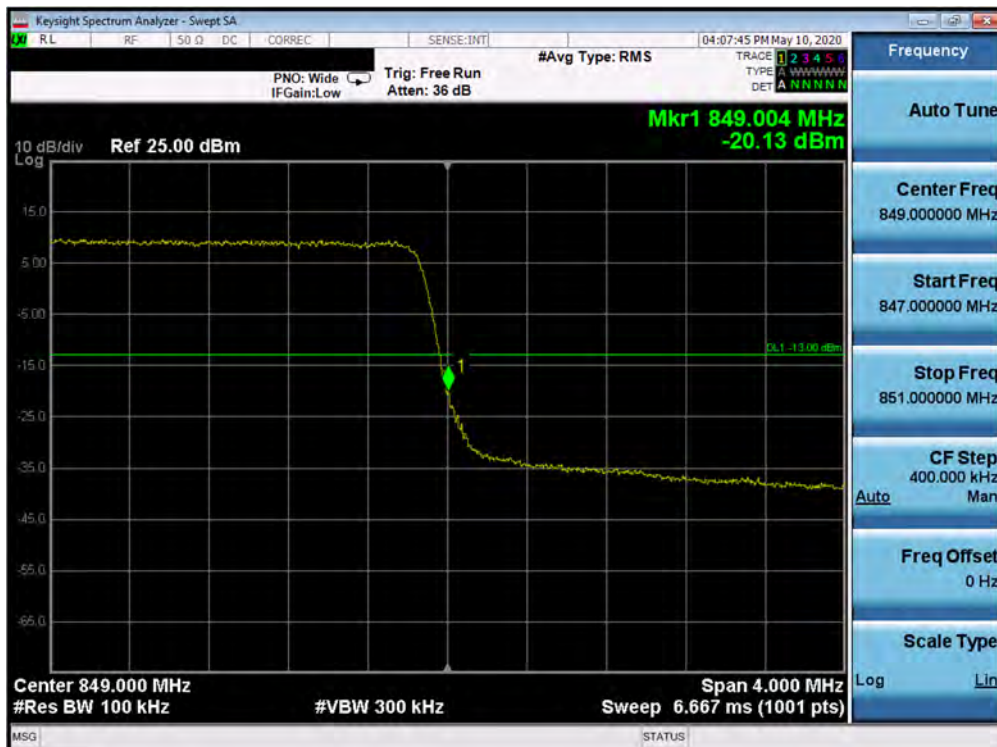


Plot 7-181. Upper Band Edge Plot (Band 5 - 1.4MHz QPSK - Full RB Configuration)

FCC ID: A3LSMH303V	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2007010102-02-R1.A3L	Test Dates: 8/22 - 9/12/2020	EUT Type: Outdoor Customer Premises Equipment (CPE)		Page 114 of 284

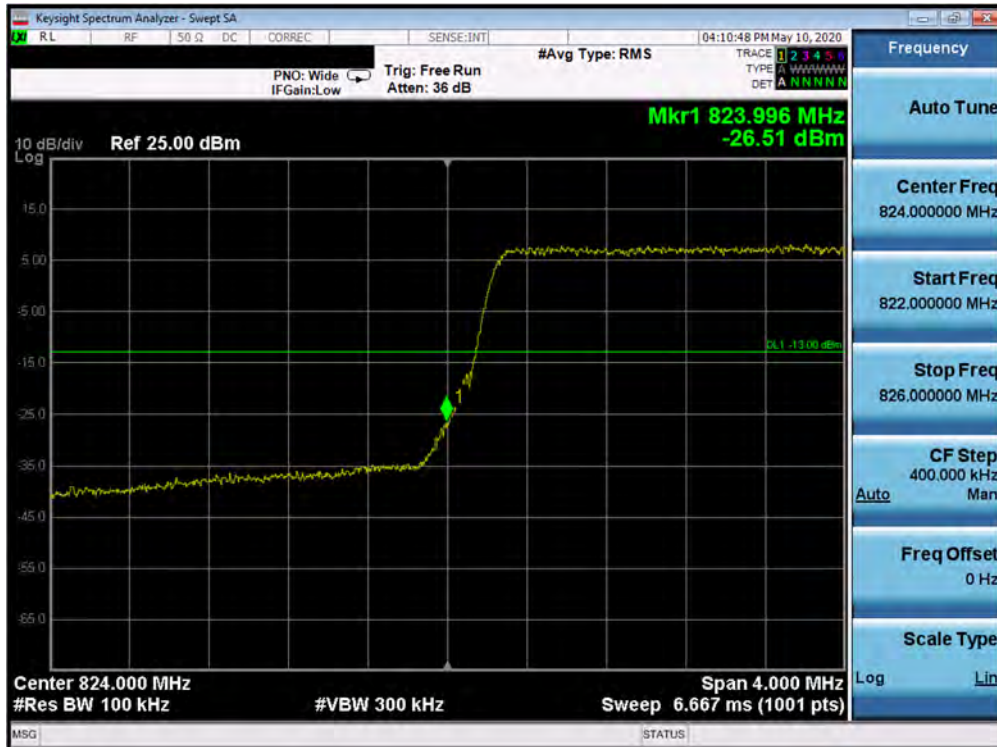


Plot 7-182. Lower Band Edge Plot (Band 5 - 3.0MHz QPSK - Full RB Configuration)



Plot 7-183. Upper Band Edge Plot (Band 5 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMH303V		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2007010102-02-R1.A3L	Test Dates: 8/22 - 9/12/2020	EUT Type: Outdoor Customer Premises Equipment (CPE)		Page 115 of 284

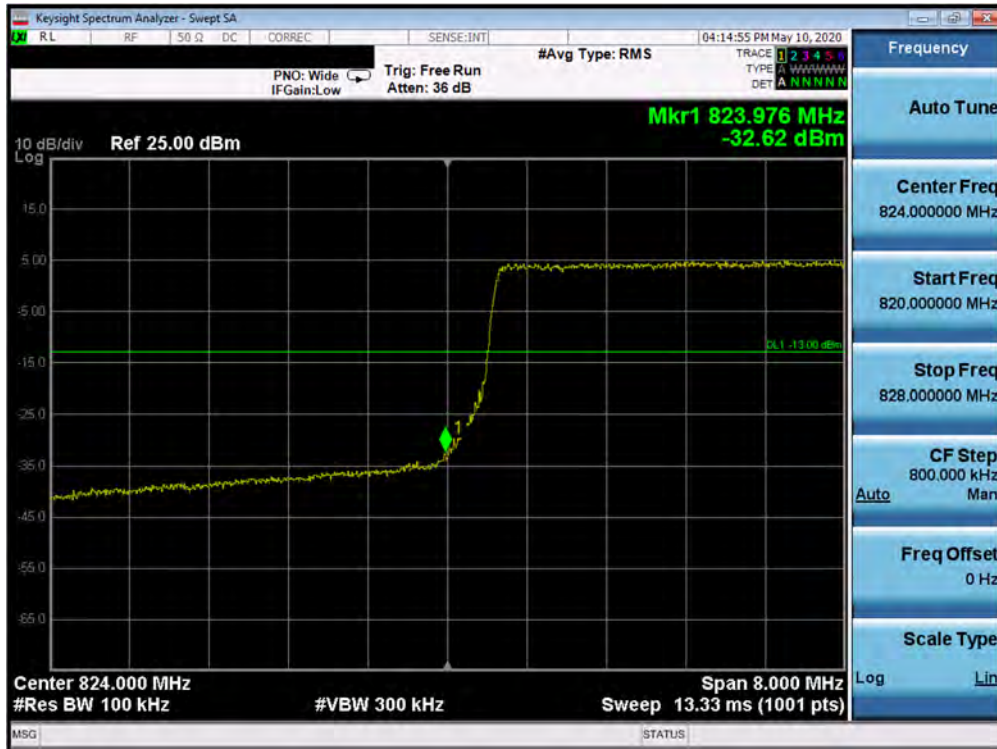


Plot 7-184. Lower Band Edge Plot (Band 5 - 5.0MHz QPSK - Full RB Configuration)

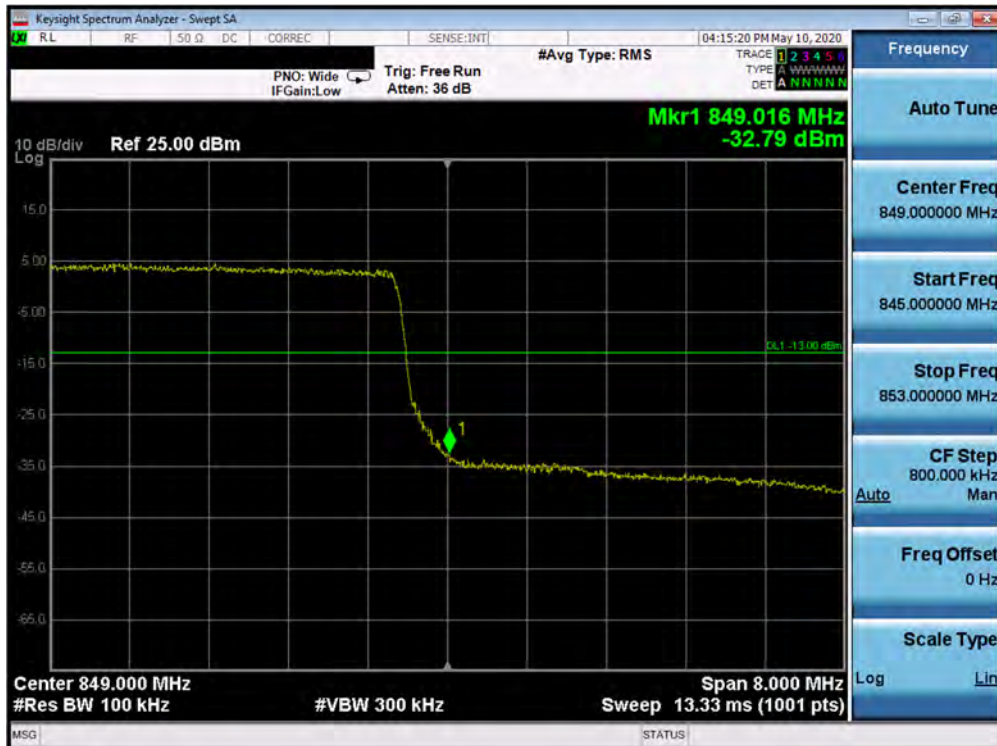


Plot 7-185. Upper Band Edge Plot (Band 5 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMH303V	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2007010102-02-R1.A3L	Test Dates: 8/22 - 9/12/2020	EUT Type: Outdoor Customer Premises Equipment (CPE)		Page 116 of 284



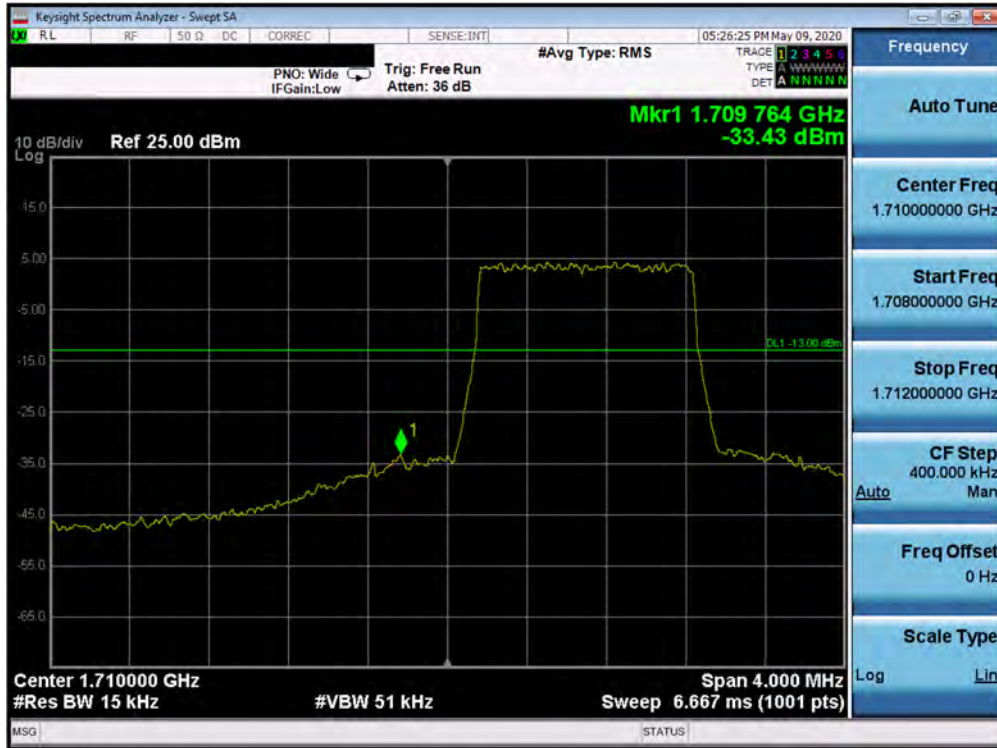
Plot 7-186. Lower Band Edge Plot (Band 5 - 10.0MHz QPSK - Full RB Configuration)



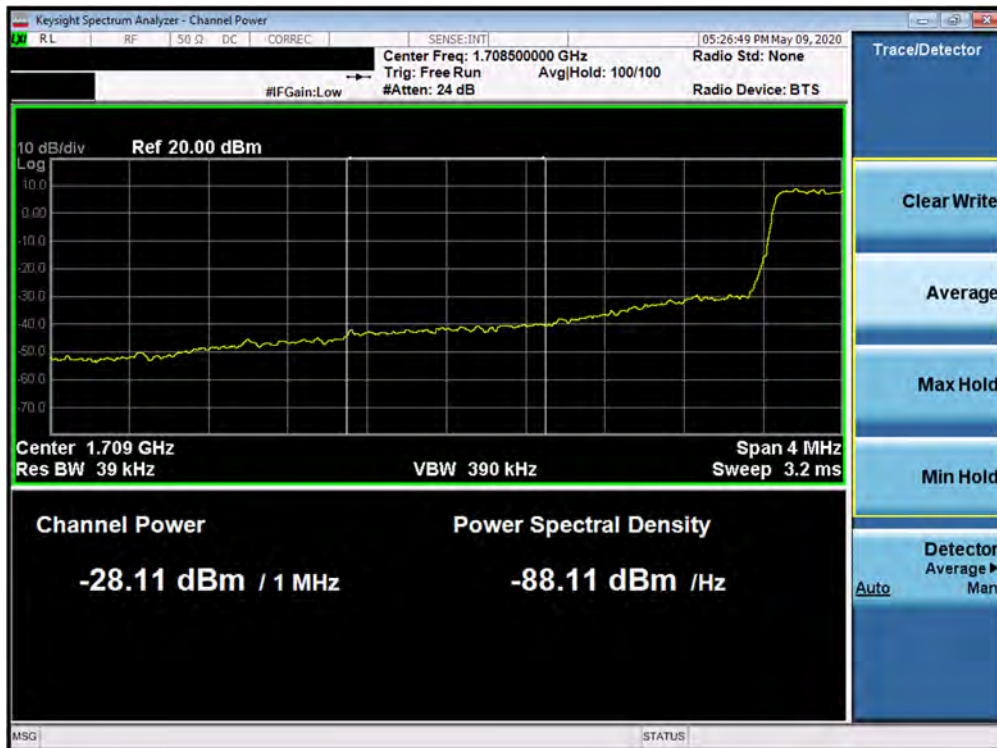
Plot 7-187. Upper Band Edge Plot (Band 5 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMH303V	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2007010102-02-R1.A3L	Test Dates: 8/22 - 9/12/2020	EUT Type: Outdoor Customer Premises Equipment (CPE)		Page 117 of 284

Band 66/4

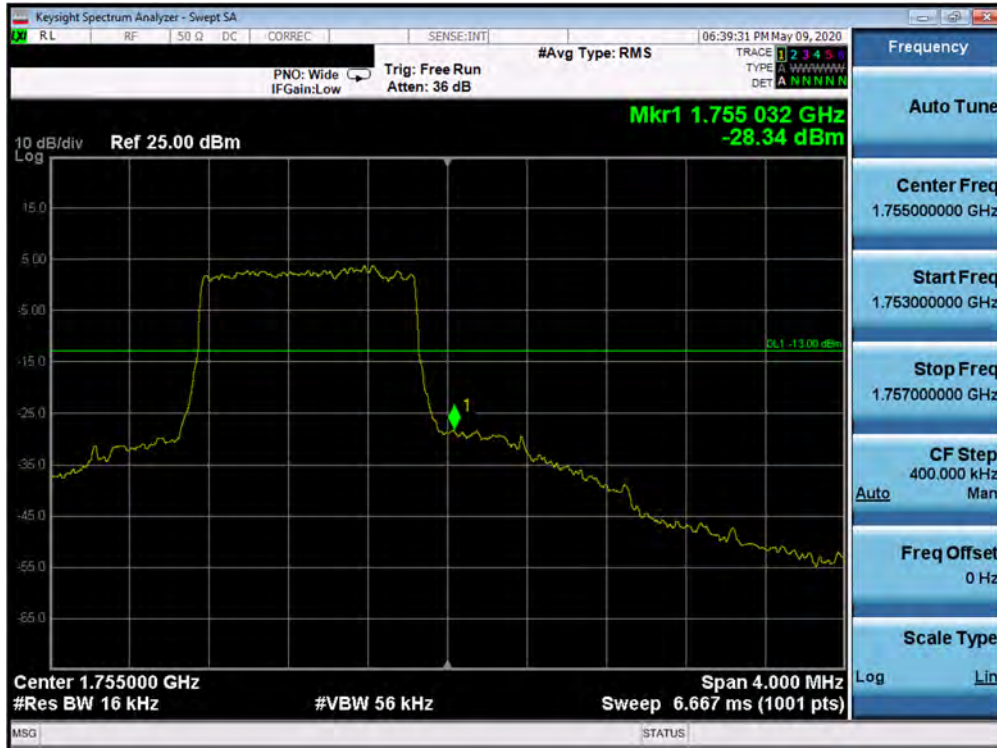


Plot 7-188. Lower Band Edge Plot (Band 66/4 - 1.4MHz QPSK - Full RB Configuration)

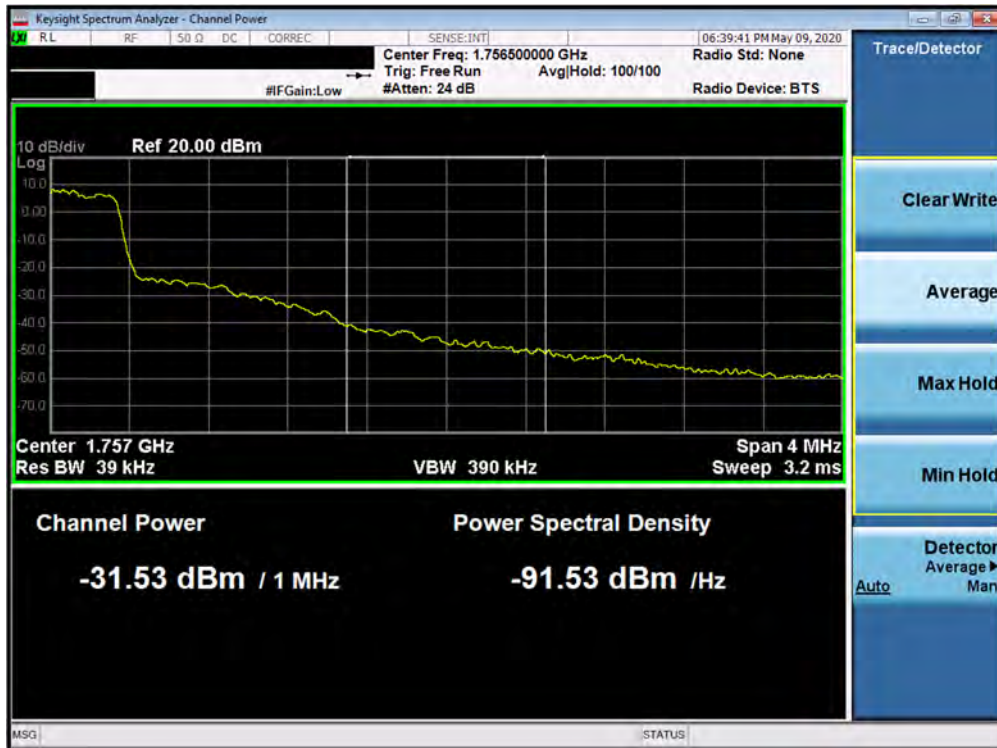


Plot 7-189. Lower Extended Band Edge Plot (Band 66/4 - 1.4MHz QPSK - Full RB Configuration)

FCC ID: A3LSMH303V	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2007010102-02-R1.A3L	Test Dates: 8/22 - 9/12/2020	EUT Type: Outdoor Customer Premises Equipment (CPE)		Page 118 of 284



Plot 7-190. Upper Band Edge Plot (Band 4 - 1.4MHz QPSK - Full RB Configuration)

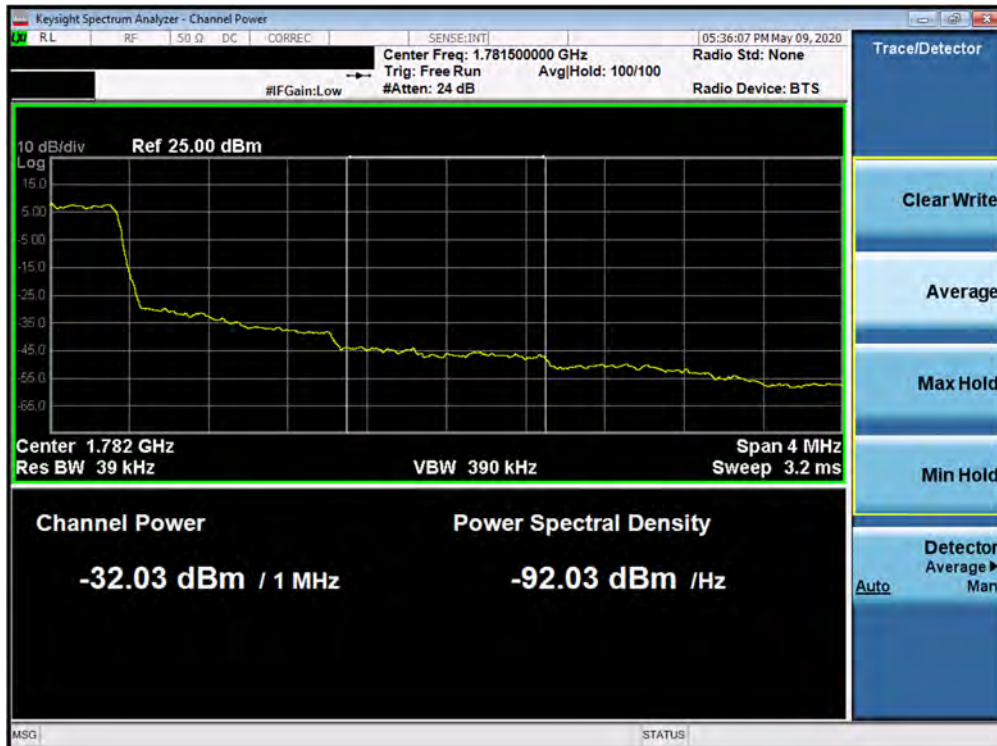


Plot 7-191. Upper Extended Band Edge Plot (Band 4 - 1.4MHz QPSK - Full RB Configuration)

FCC ID: A3LSMH303V	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2007010102-02-R1.A3L	Test Dates: 8/22 - 9/12/2020	EUT Type: Outdoor Customer Premises Equipment (CPE)		Page 119 of 284

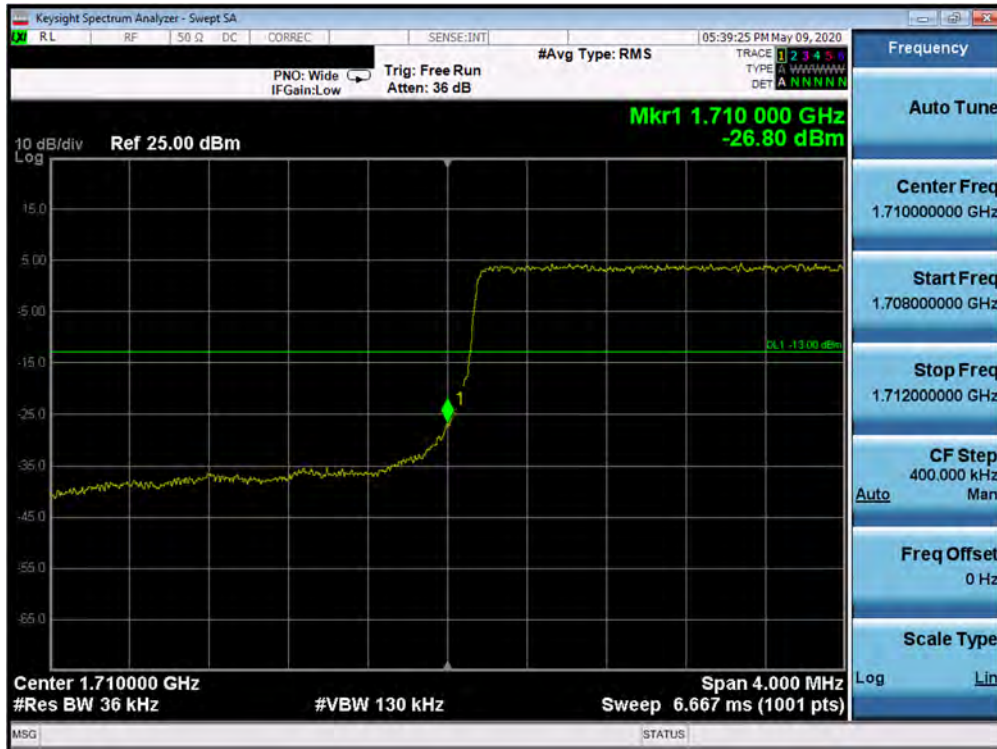


Plot 7-192. Upper Band Edge Plot (Band 66 - 1.4MHz QPSK - Full RB Configuration)

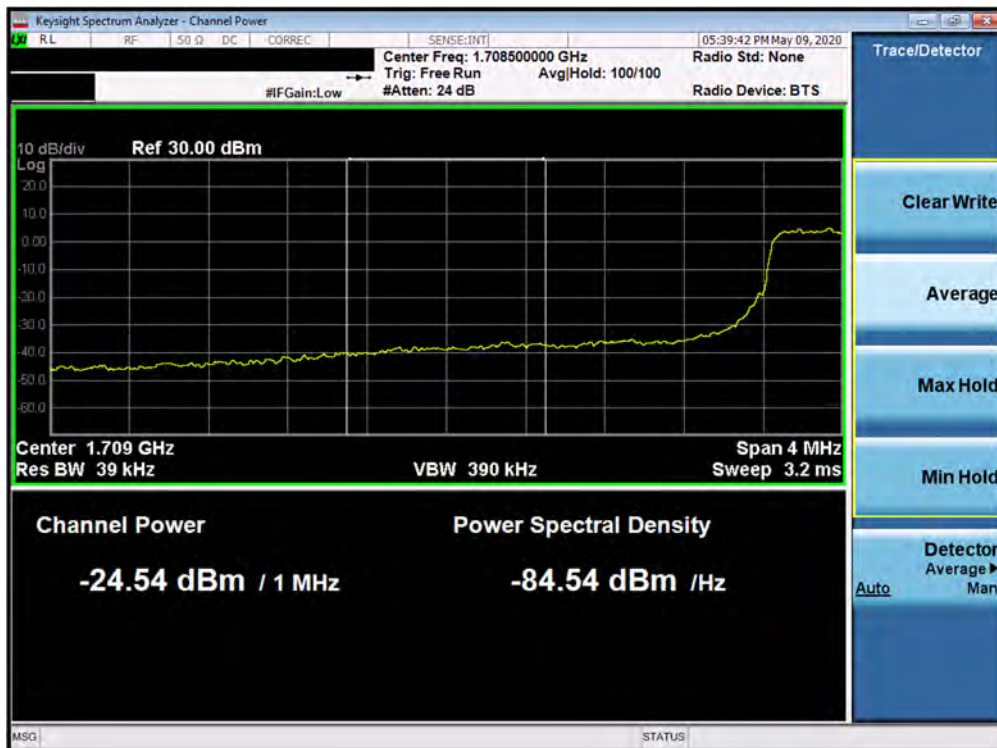


Plot 7-193. Upper Extended Band Edge Plot (Band 66 - 1.4MHz QPSK - Full RB Configuration)

FCC ID: A3LSMH303V	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2007010102-02-R1.A3L	Test Dates: 8/22 - 9/12/2020	EUT Type: Outdoor Customer Premises Equipment (CPE)		Page 120 of 284



Plot 7-194. Lower Band Edge Plot (Band 66/4 - 3.0MHz QPSK - Full RB Configuration)

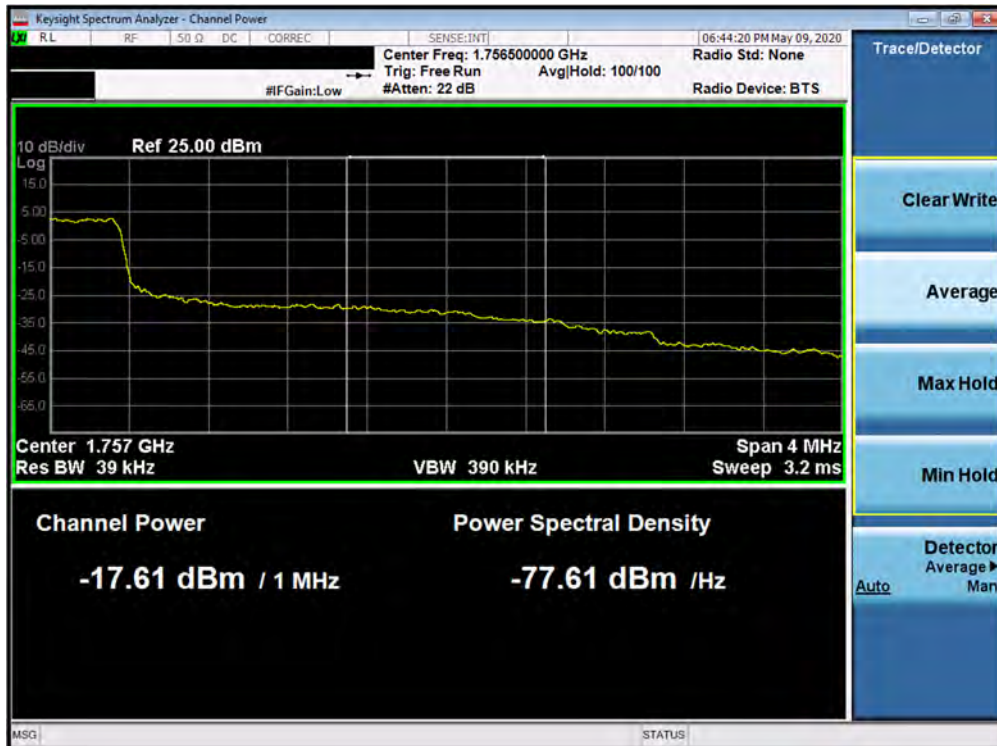


Plot 7-195. Lower Extended Band Edge Plot (Band 66/4 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMH303V	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2007010102-02-R1.A3L	Test Dates: 8/22 - 9/12/2020	EUT Type: Outdoor Customer Premises Equipment (CPE)		Page 121 of 284

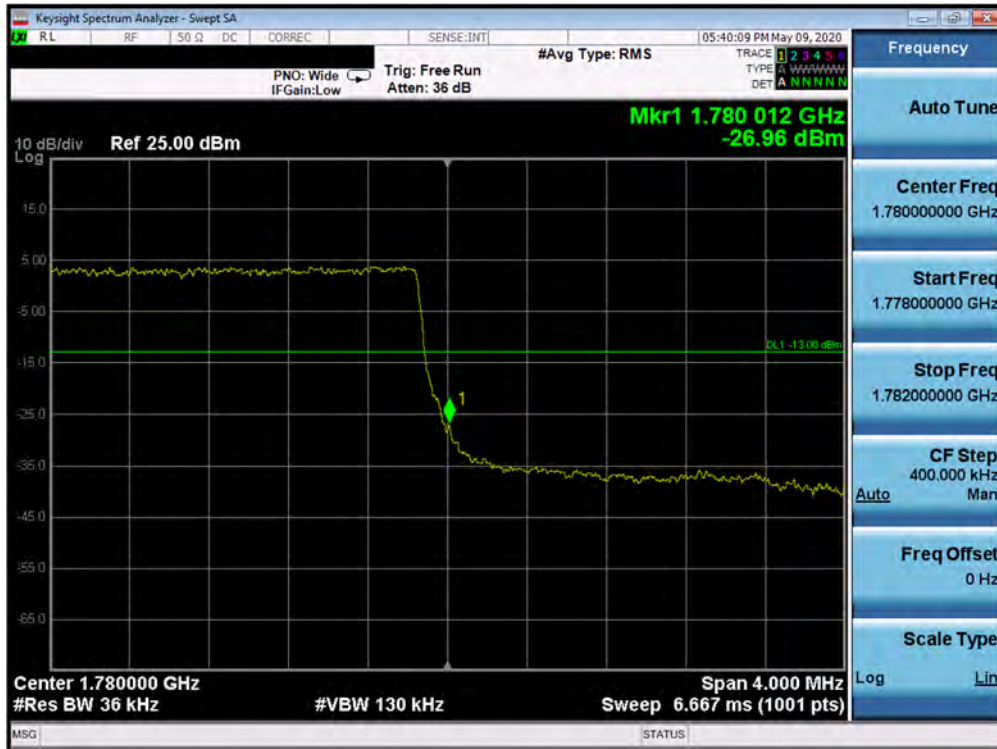


Plot 7-196. Upper Band Edge Plot (Band 4 - 3.0MHz QPSK - Full RB Configuration)

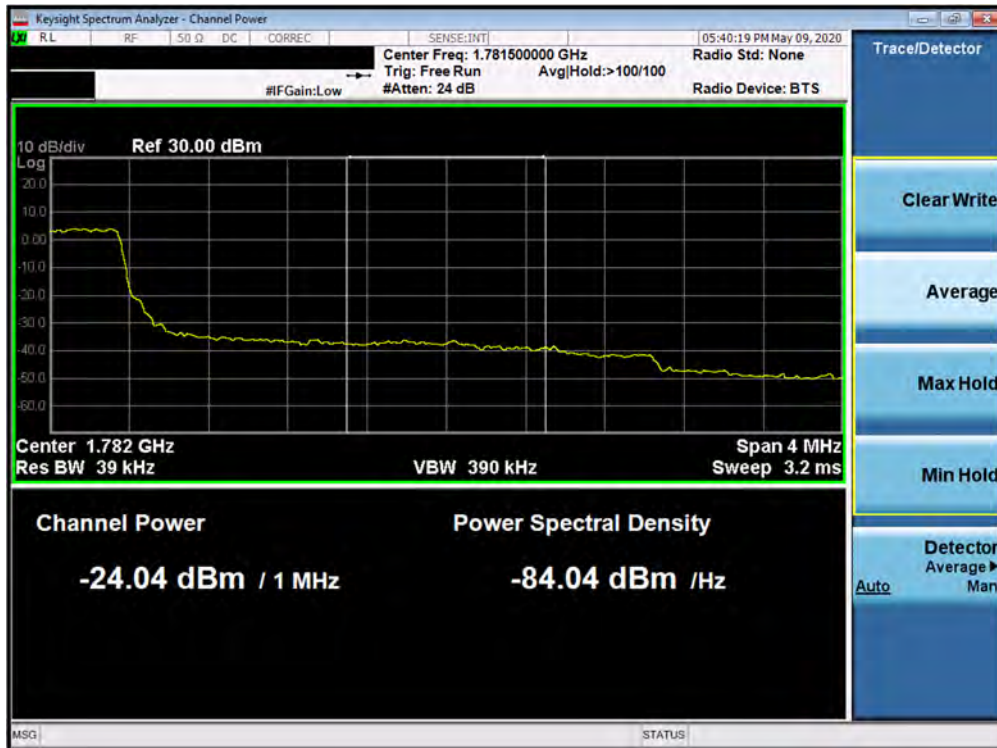


Plot 7-197. Upper Extended Band Edge Plot (Band 4 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMH303V	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2007010102-02-R1.A3L	Test Dates: 8/22 - 9/12/2020	EUT Type: Outdoor Customer Premises Equipment (CPE)		Page 122 of 284

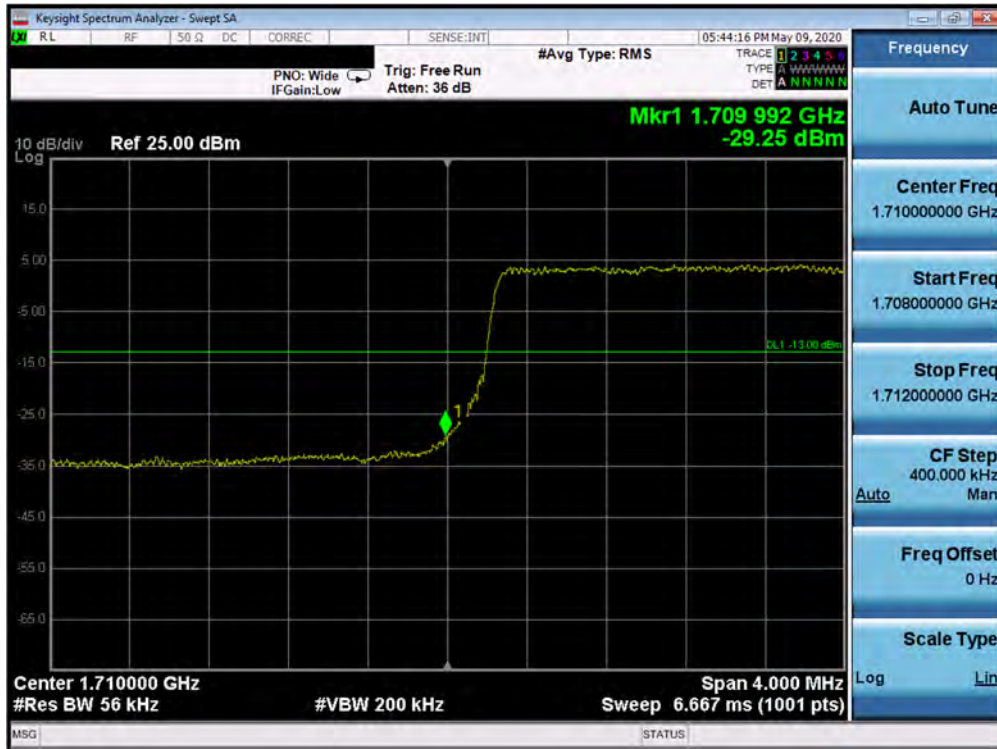


Plot 7-198. Upper Band Edge Plot (Band 66 - 3.0MHz QPSK - Full RB Configuration)

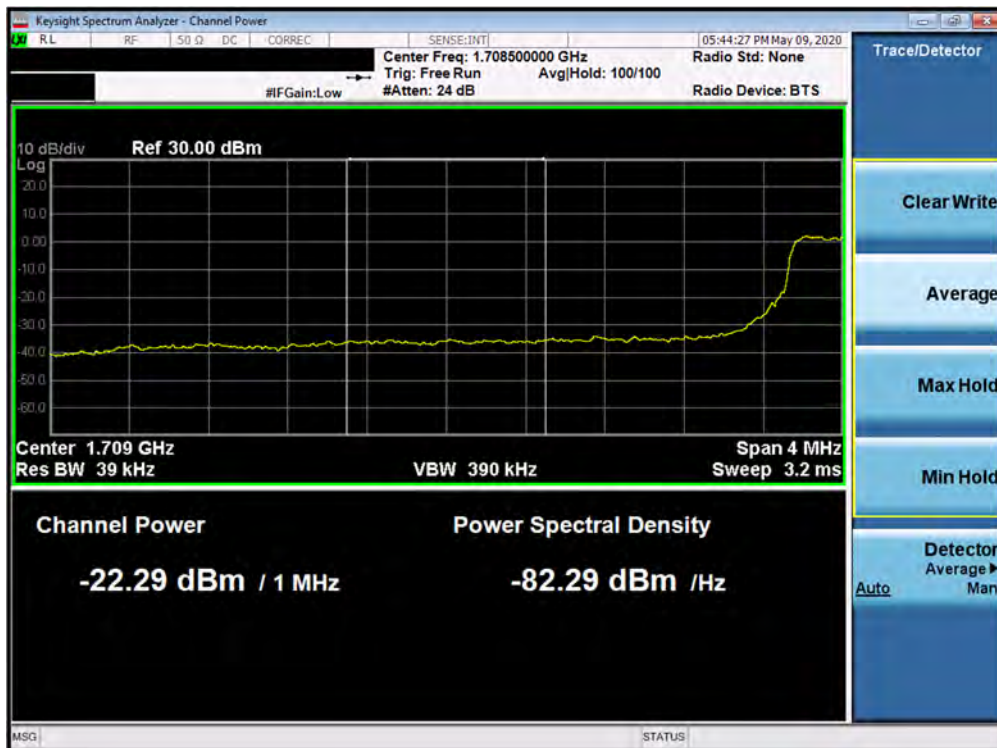


Plot 7-199. Upper Extended Band Edge Plot (Band 66 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMH303V	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2007010102-02-R1.A3L	Test Dates: 8/22 - 9/12/2020	EUT Type: Outdoor Customer Premises Equipment (CPE)		Page 123 of 284

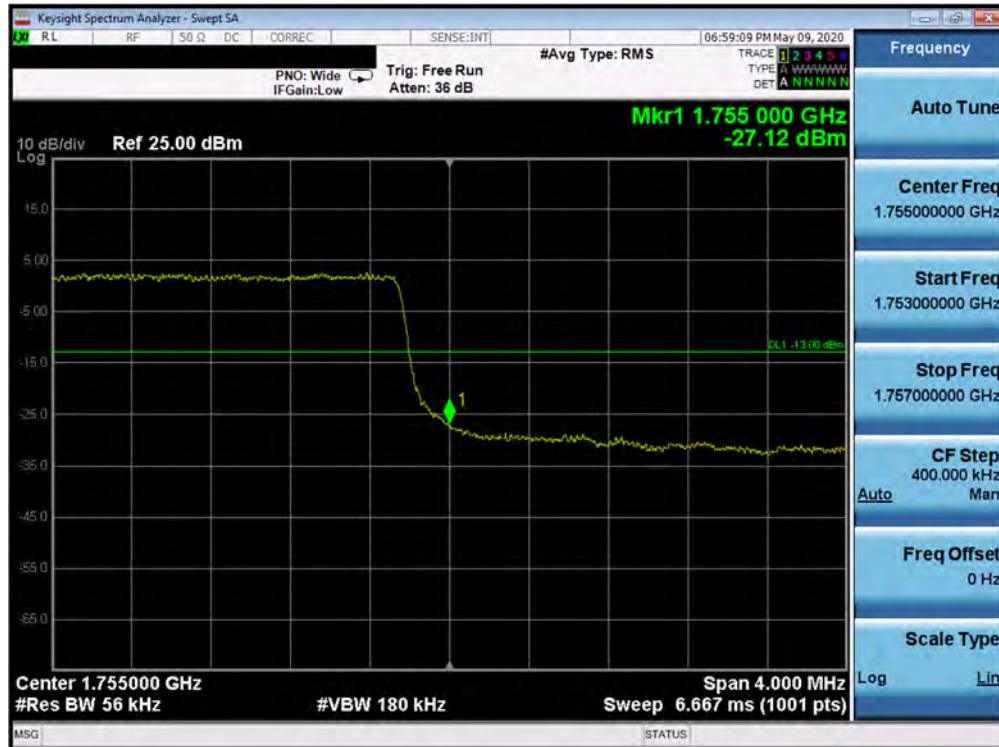


Plot 7-200. Lower Band Edge Plot (Band 66/4 - 5.0MHz QPSK - Full RB Configuration)

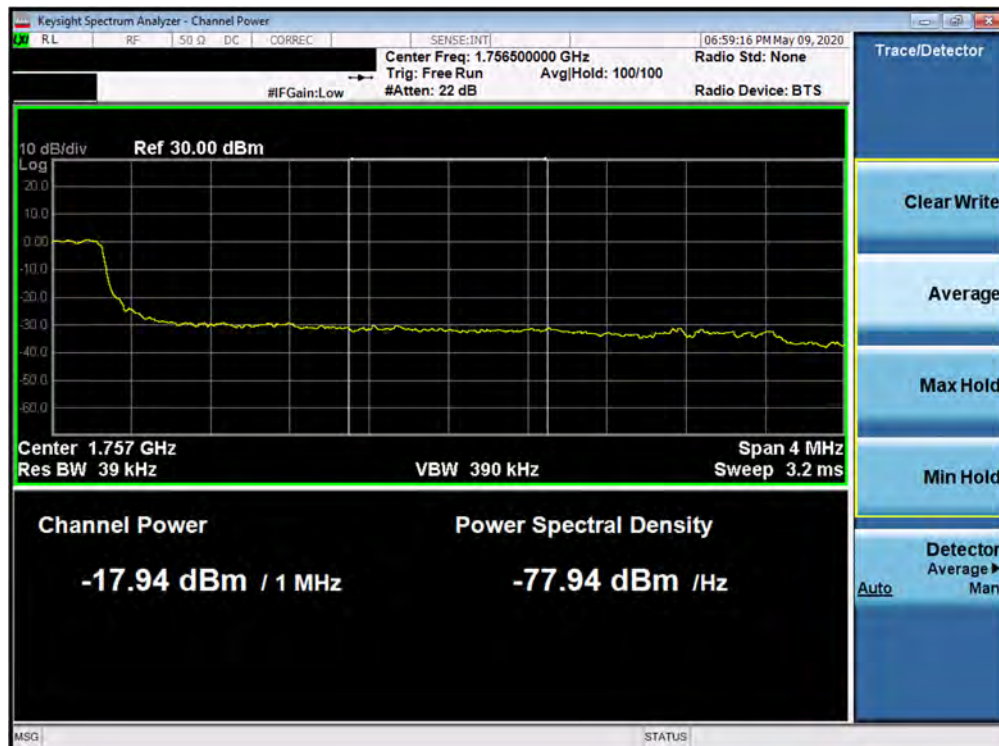


Plot 7-201. Lower Extended Band Edge Plot (Band 66/4 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMH303V	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2007010102-02-R1.A3L	Test Dates: 8/22 - 9/12/2020	EUT Type: Outdoor Customer Premises Equipment (CPE)		Page 124 of 284

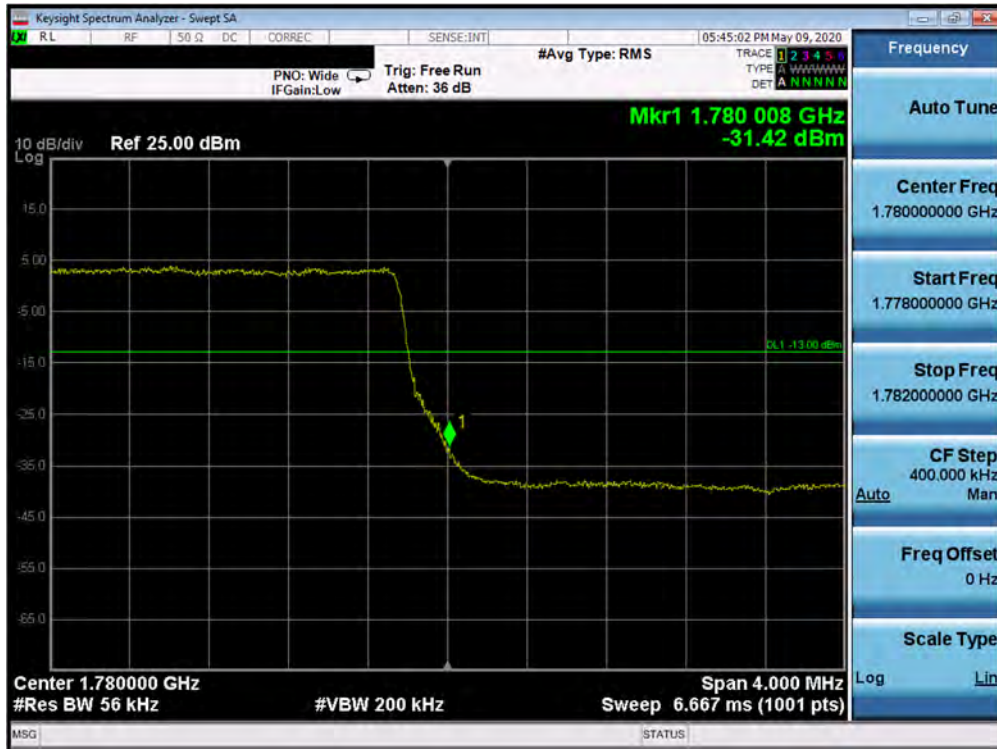


Plot 7-202. Upper Band Edge Plot (Band 4 - 5.0MHz QPSK - Full RB Configuration)

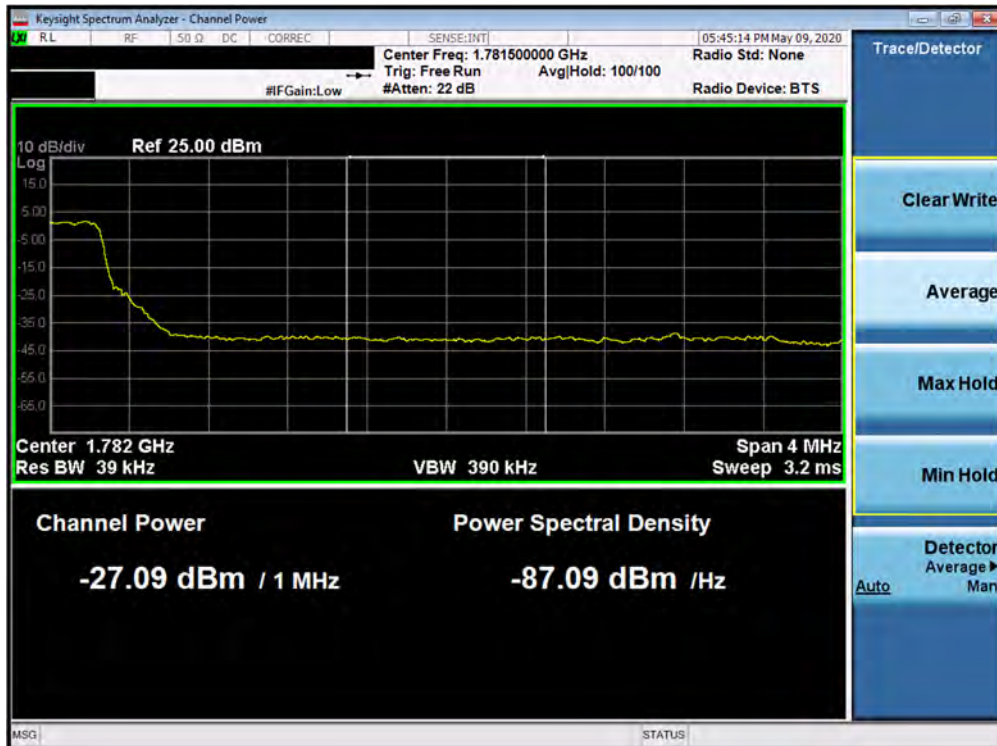


Plot 7-203. Upper Extended Band Edge Plot (Band 4 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMH303V	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2007010102-02-R1.A3L	Test Dates: 8/22 - 9/12/2020	EUT Type: Outdoor Customer Premises Equipment (CPE)		Page 125 of 284

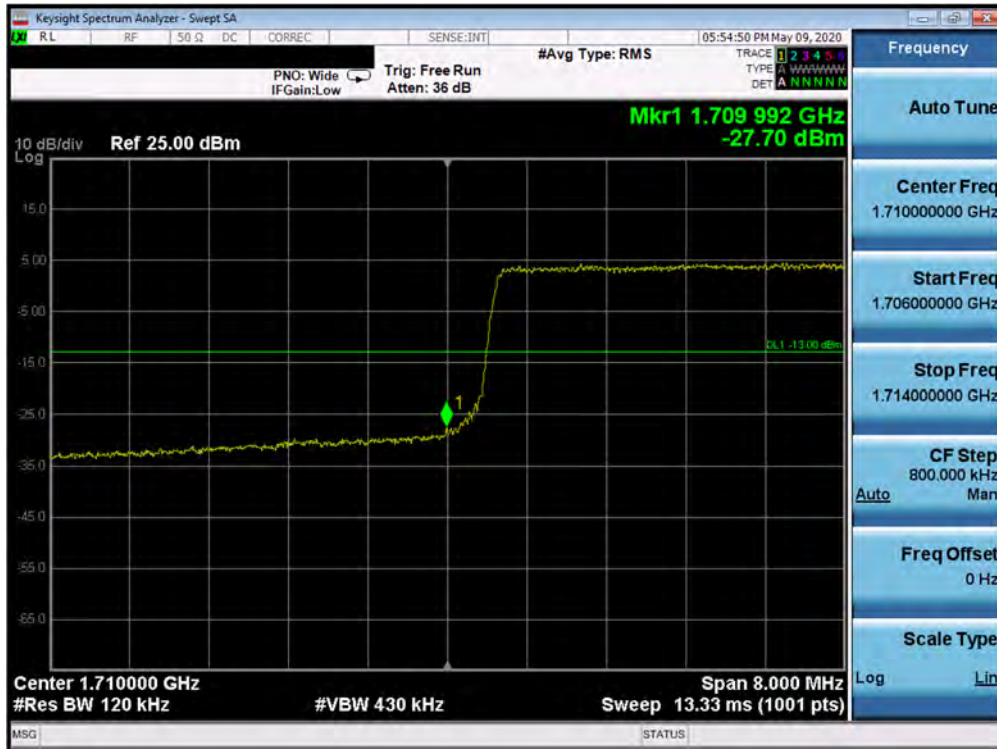


Plot 7-204. Upper Band Edge Plot (Band 66 - 5.0MHz QPSK - Full RB Configuration)

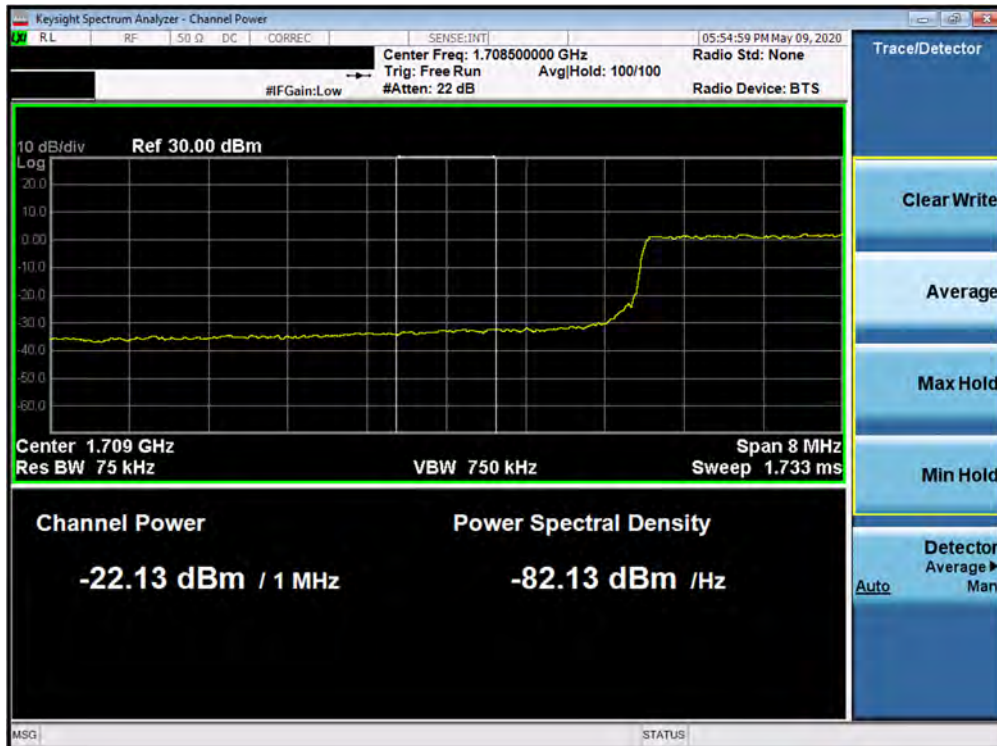


Plot 7-205. Upper Extended Band Edge Plot (Band 66 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMH303V	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2007010102-02-R1.A3L	Test Dates: 8/22 - 9/12/2020	EUT Type: Outdoor Customer Premises Equipment (CPE)		Page 126 of 284

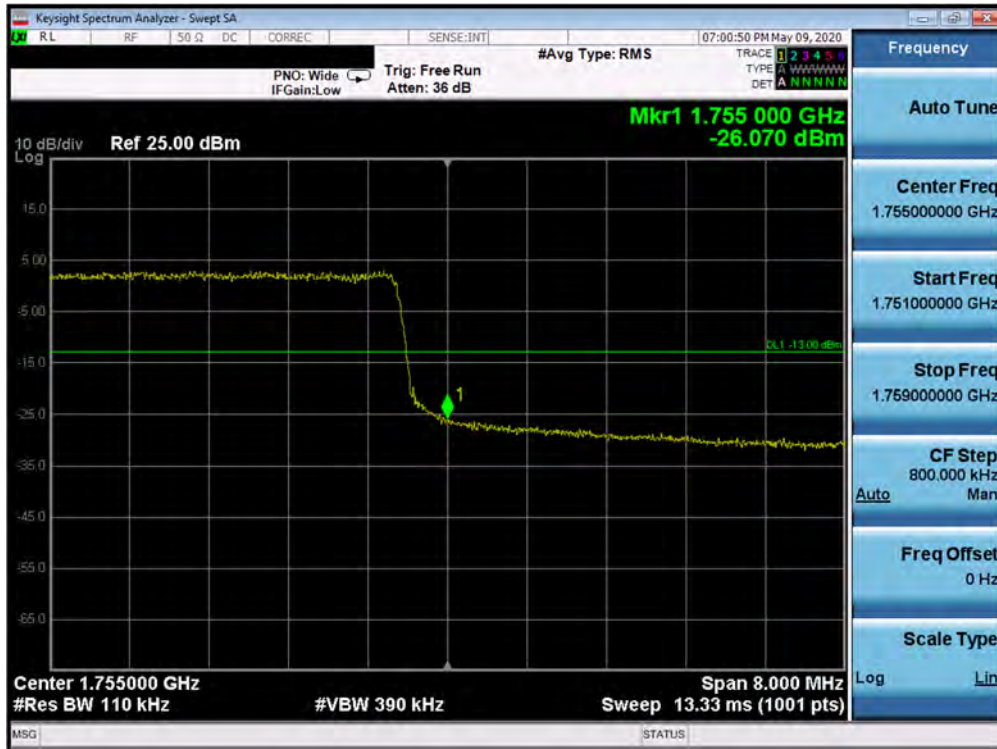


Plot 7-206. Lower Band Edge Plot (Band 66/4 - 10.0MHz QPSK - Full RB Configuration)

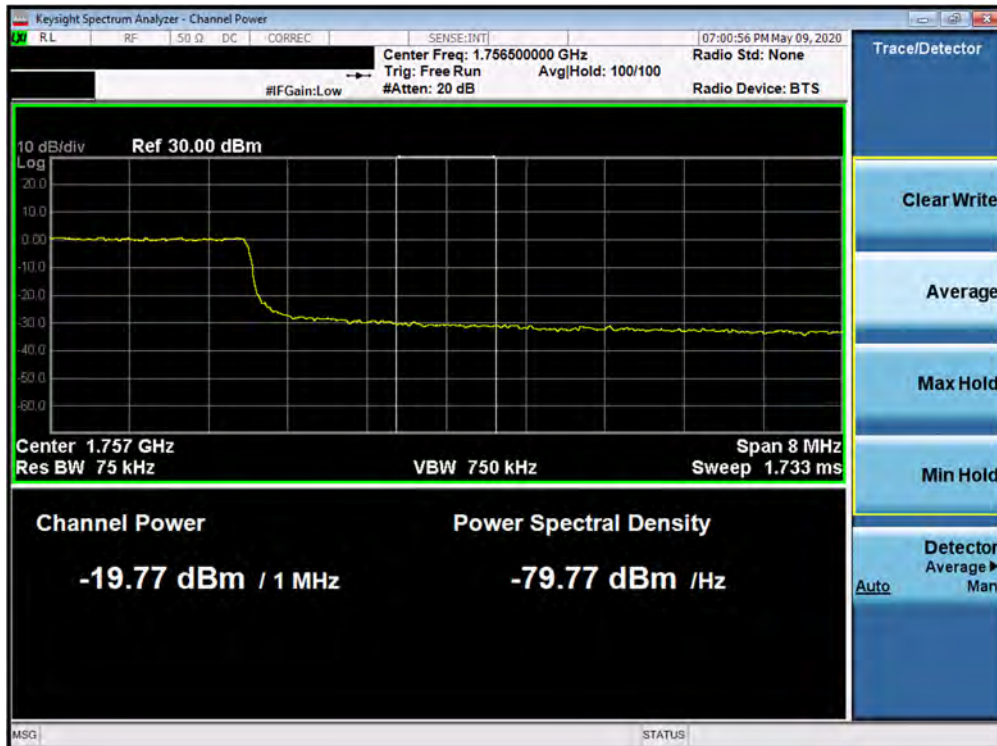


Plot 7-207. Lower Extended Band Edge Plot (Band 66/4 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMH303V	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2007010102-02-R1.A3L	Test Dates: 8/22 - 9/12/2020	EUT Type: Outdoor Customer Premises Equipment (CPE)		Page 127 of 284



Plot 7-208. Upper Band Edge Plot (Band 4 - 10.0MHz QPSK - Full RB Configuration)

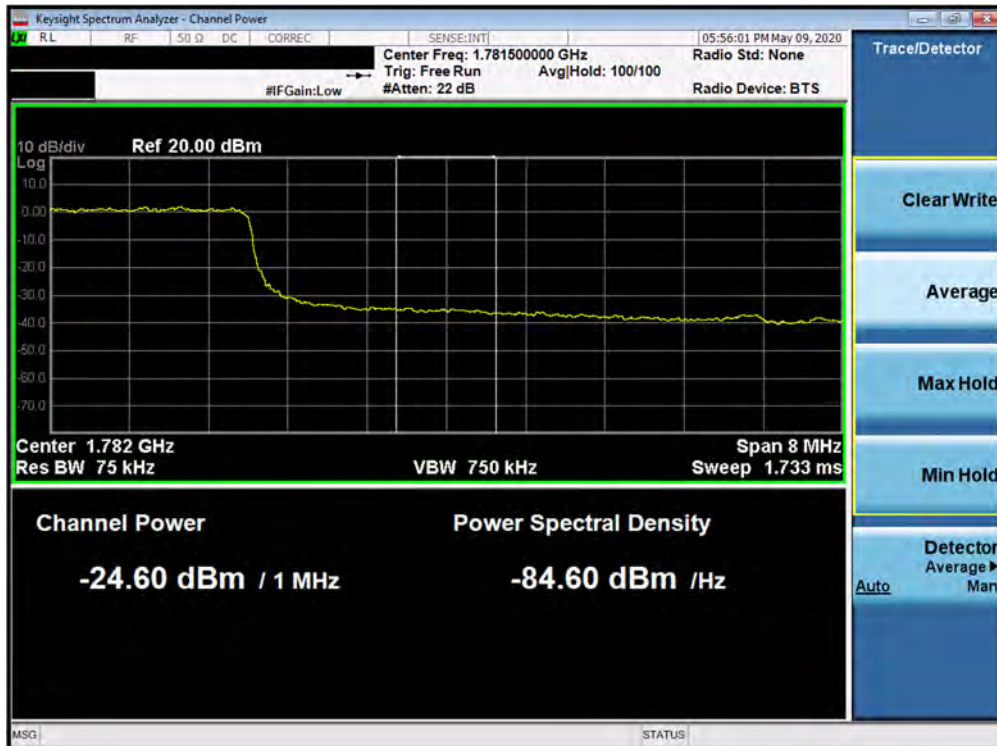


Plot 7-209. Upper Extended Band Edge Plot (Band 4 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMH303V	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2007010102-02-R1.A3L	Test Dates: 8/22 - 9/12/2020	EUT Type: Outdoor Customer Premises Equipment (CPE)		Page 128 of 284

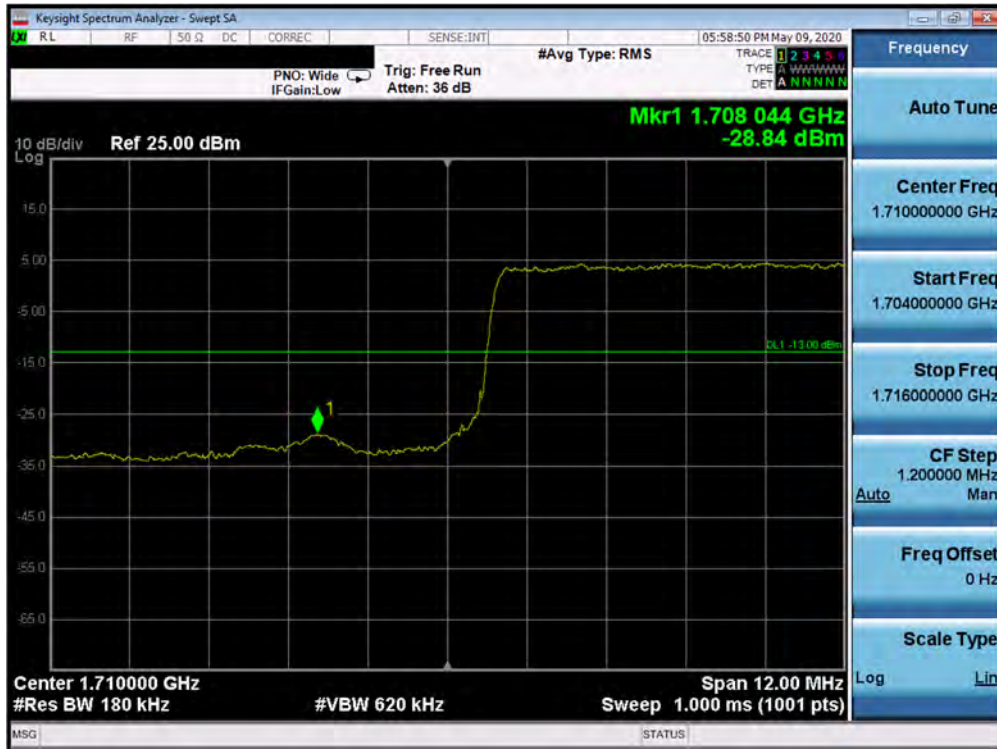


Plot 7-210. Upper Band Edge Plot (Band 66 - 10.0MHz QPSK - Full RB Configuration)

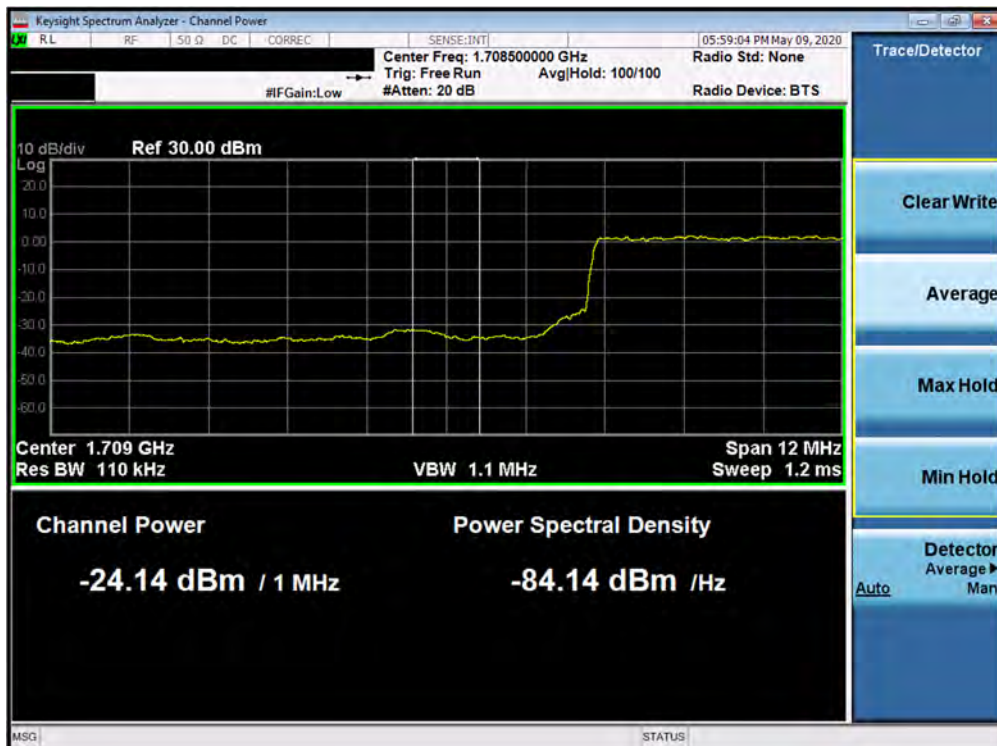


Plot 7-211. Upper Extended Band Edge Plot (Band 66 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMH303V	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2007010102-02-R1.A3L	Test Dates: 8/22 - 9/12/2020	EUT Type: Outdoor Customer Premises Equipment (CPE)		Page 129 of 284



Plot 7-212. Lower Band Edge Plot (Band 66/4 - 15.0MHz QPSK - Full RB Configuration)

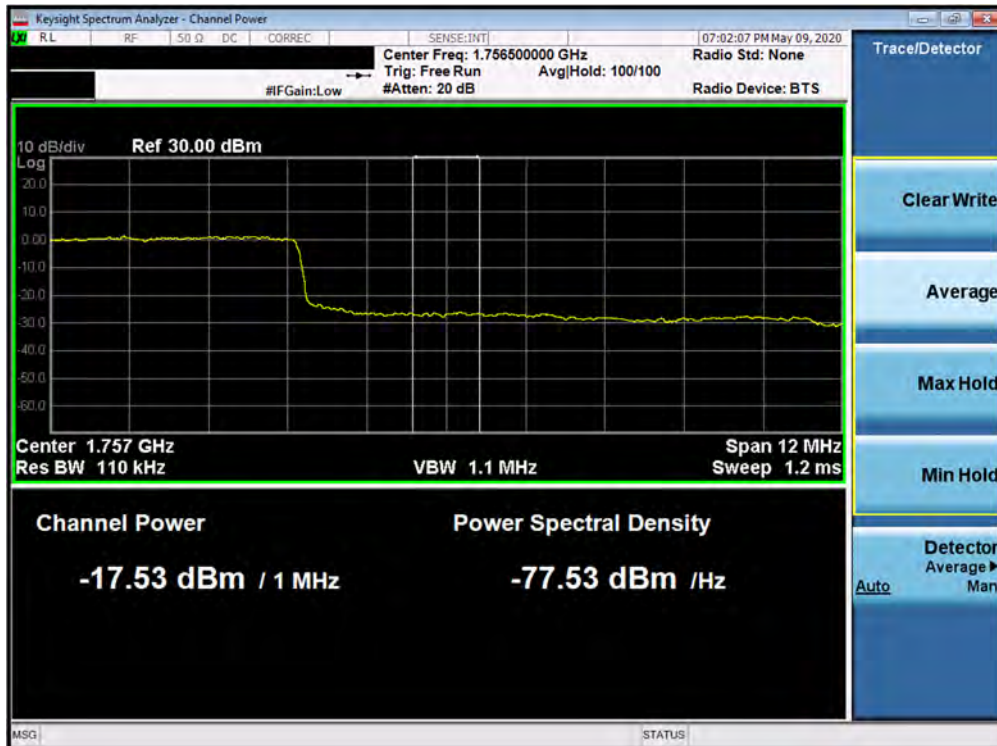


Plot 7-213. Lower Extended Band Edge Plot (Band 66/4 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMH303V	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2007010102-02-R1.A3L	Test Dates: 8/22 - 9/12/2020	EUT Type: Outdoor Customer Premises Equipment (CPE)		Page 130 of 284



Plot 7-214. Upper Band Edge Plot (Band 4 - 15.0MHz QPSK - Full RB Configuration)

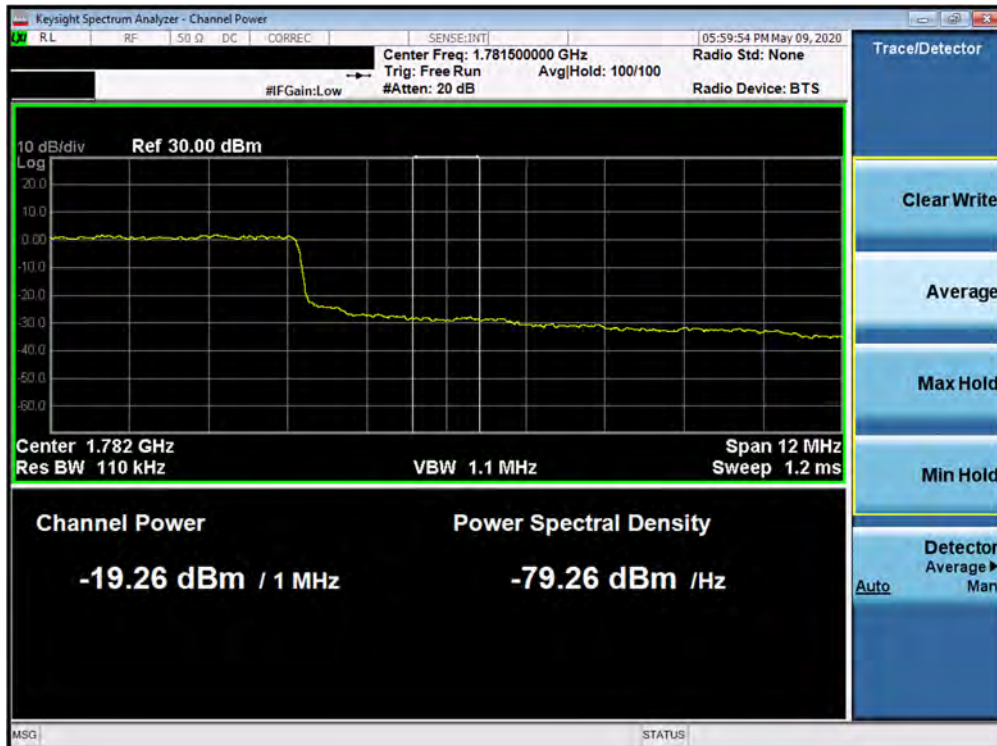


Plot 7-215. Upper Extended Band Edge Plot (Band 4 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMH303V	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2007010102-02-R1.A3L	Test Dates: 8/22 - 9/12/2020	EUT Type: Outdoor Customer Premises Equipment (CPE)		Page 131 of 284

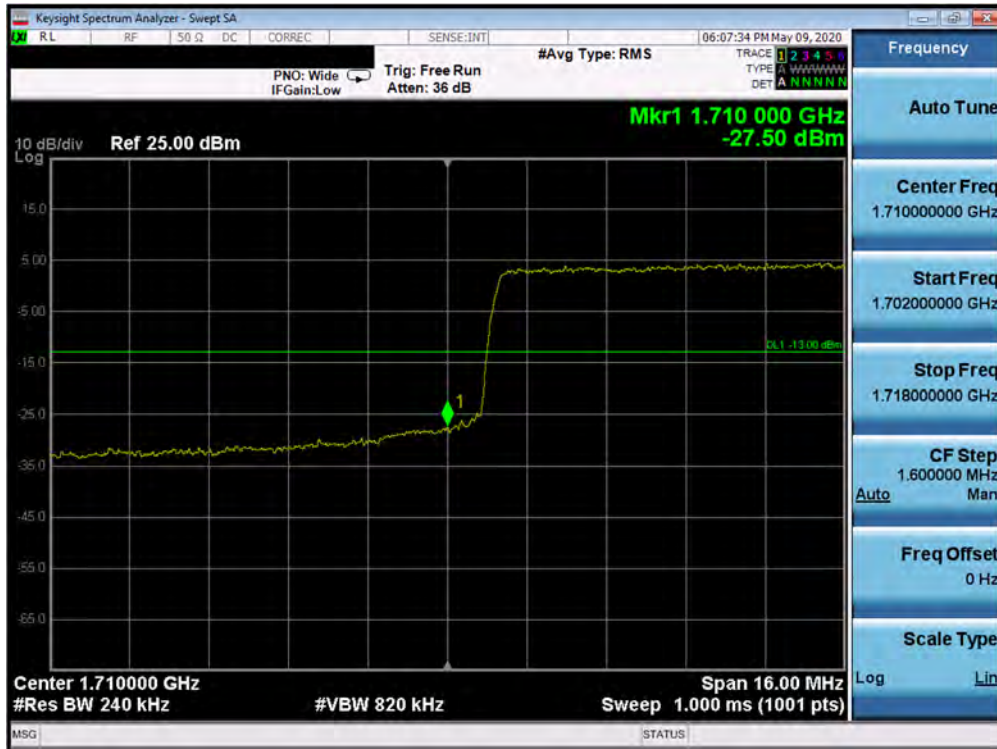


Plot 7-216. Upper Band Edge Plot (Band 66 - 15.0MHz QPSK - Full RB Configuration)

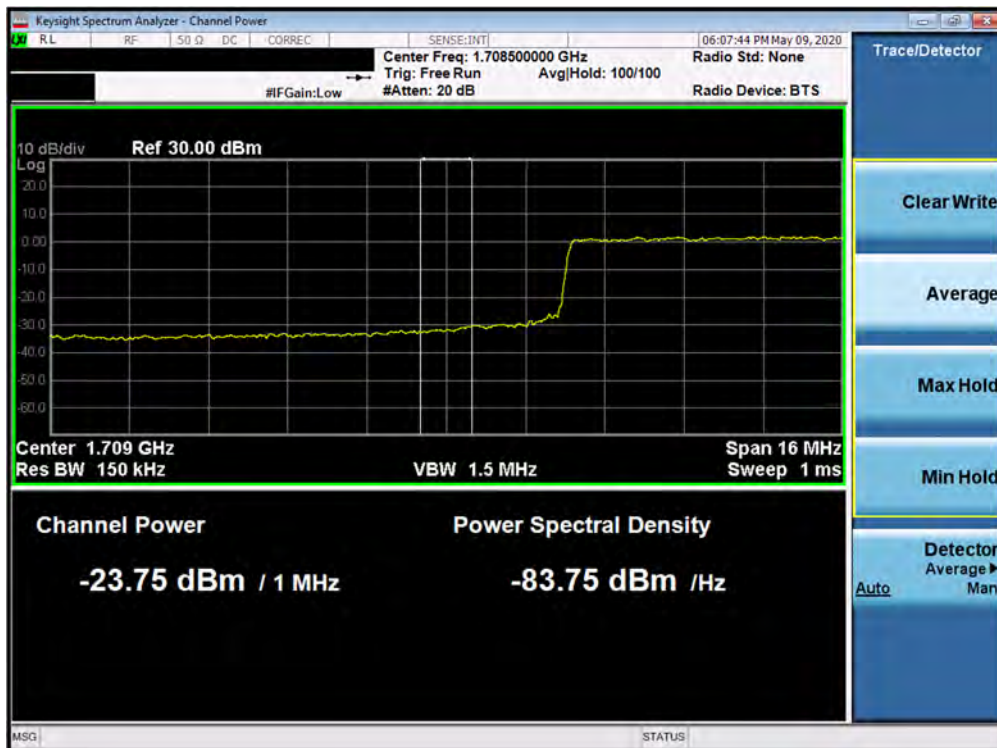


Plot 7-217. Upper Extended Band Edge Plot (Band 66 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMH303V	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2007010102-02-R1.A3L	Test Dates: 8/22 - 9/12/2020	EUT Type: Outdoor Customer Premises Equipment (CPE)		Page 132 of 284



Plot 7-218. Lower Band Edge Plot (Band 66/4 - 20.0MHz QPSK - Full RB Configuration)

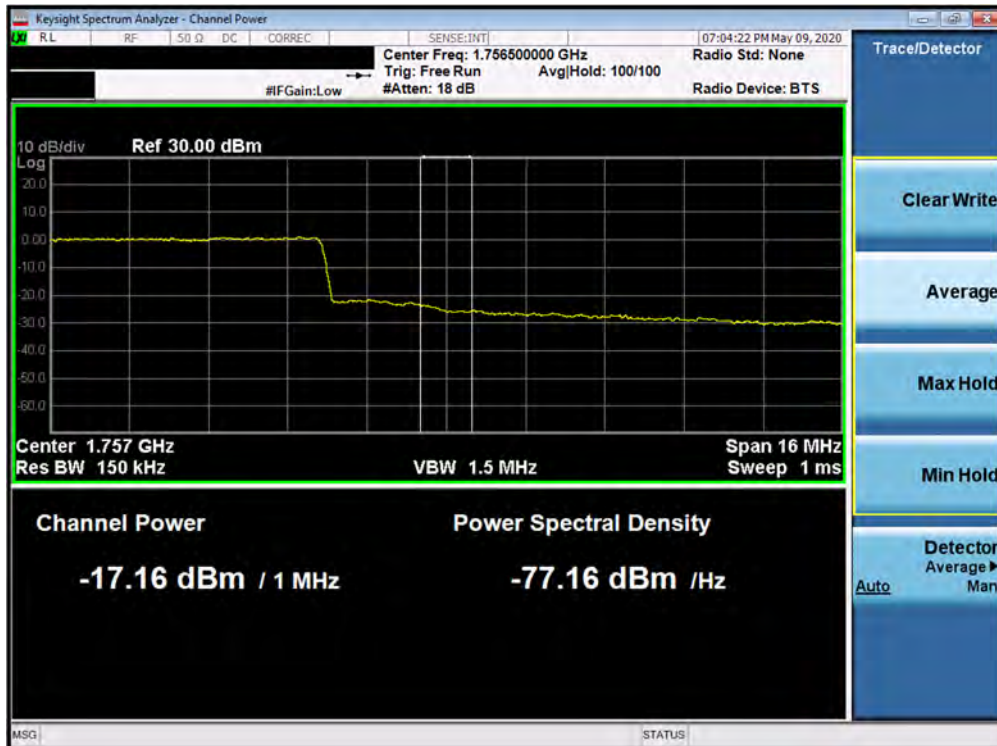


Plot 7-219. Lower Extended Band Edge Plot (Band 66/4 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMH303V	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2007010102-02-R1.A3L	Test Dates: 8/22 - 9/12/2020	EUT Type: Outdoor Customer Premises Equipment (CPE)		Page 133 of 284

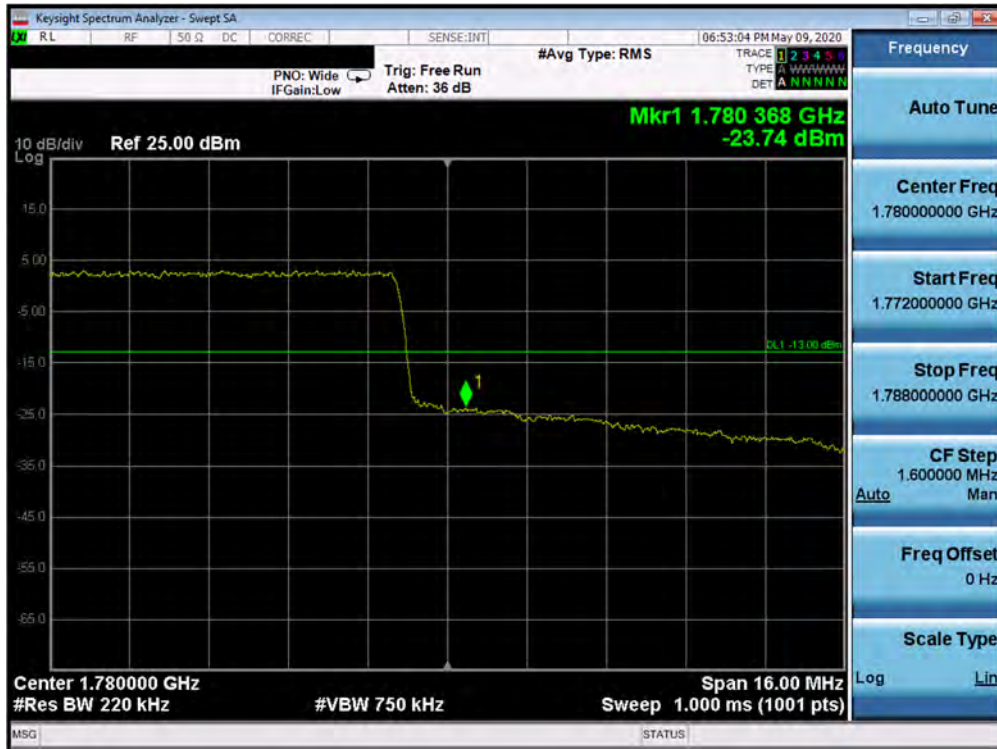


Plot 7-220. Upper Band Edge Plot (Band 4 - 20.0MHz QPSK - Full RB Configuration)

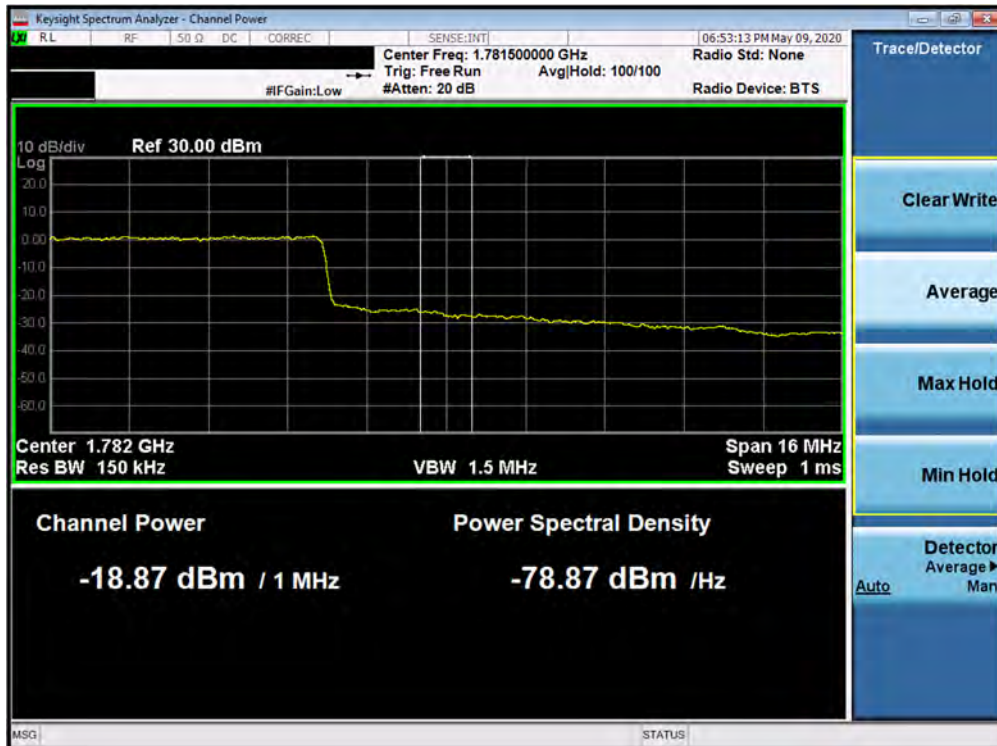


Plot 7-221. Upper Extended Band Edge Plot (Band 4 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMH303V	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2007010102-02-R1.A3L	Test Dates: 8/22 - 9/12/2020	EUT Type: Outdoor Customer Premises Equipment (CPE)		Page 134 of 284



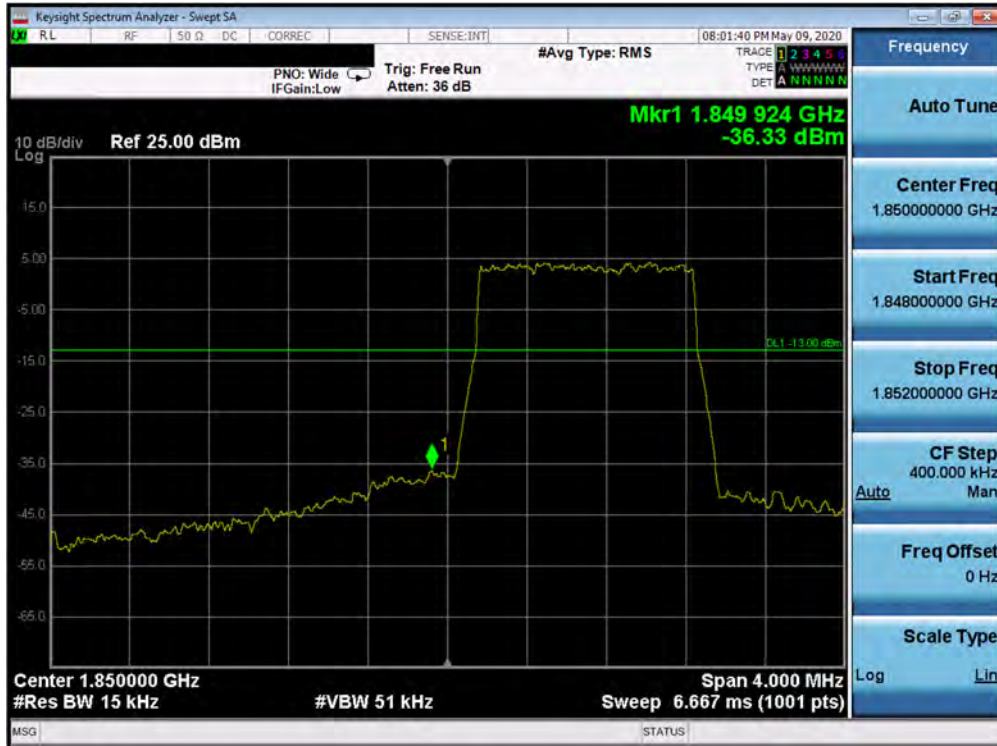
Plot 7-222. Upper Band Edge Plot (Band 66 - 20.0MHz QPSK - Full RB Configuration)



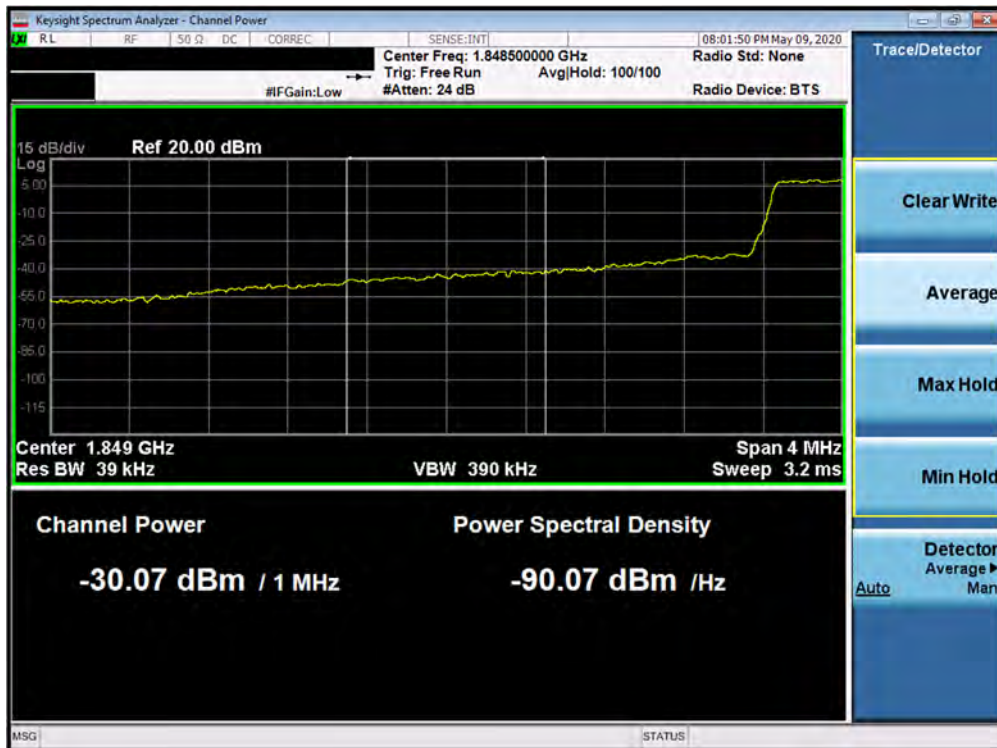
Plot 7-223. Upper Extended Band Edge Plot (Band 66 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMH303V	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2007010102-02-R1.A3L	Test Dates: 8/22 - 9/12/2020	EUT Type: Outdoor Customer Premises Equipment (CPE)		Page 135 of 284

Band 2

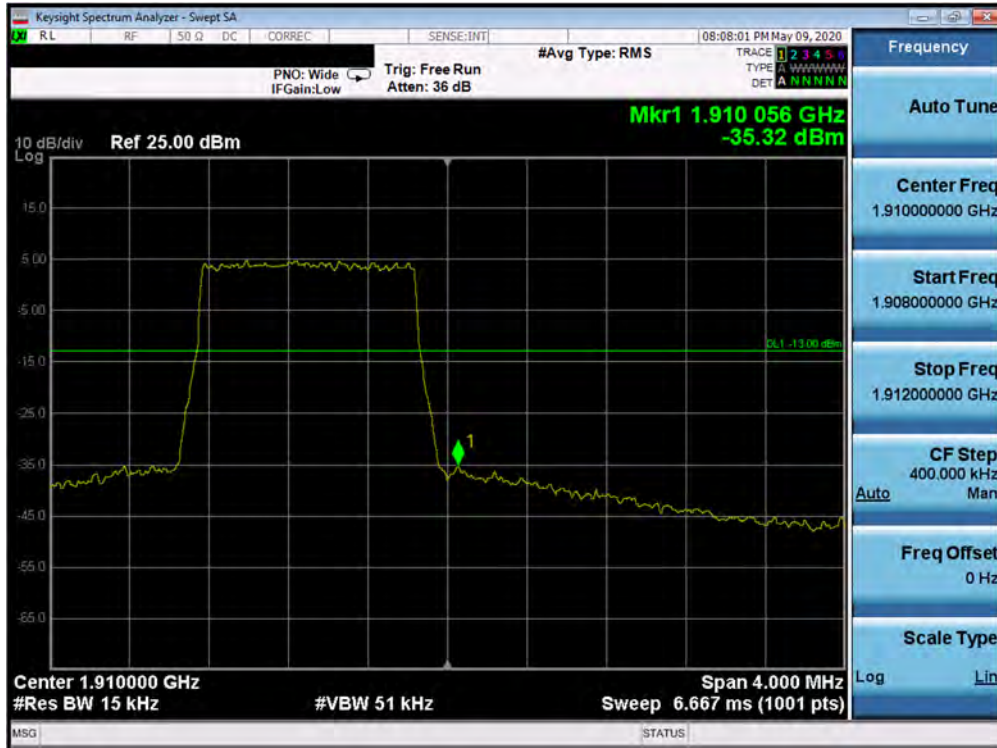


Plot 7-224. Lower Band Edge Plot (Band 2 - 1.4MHz QPSK - Full RB Configuration)

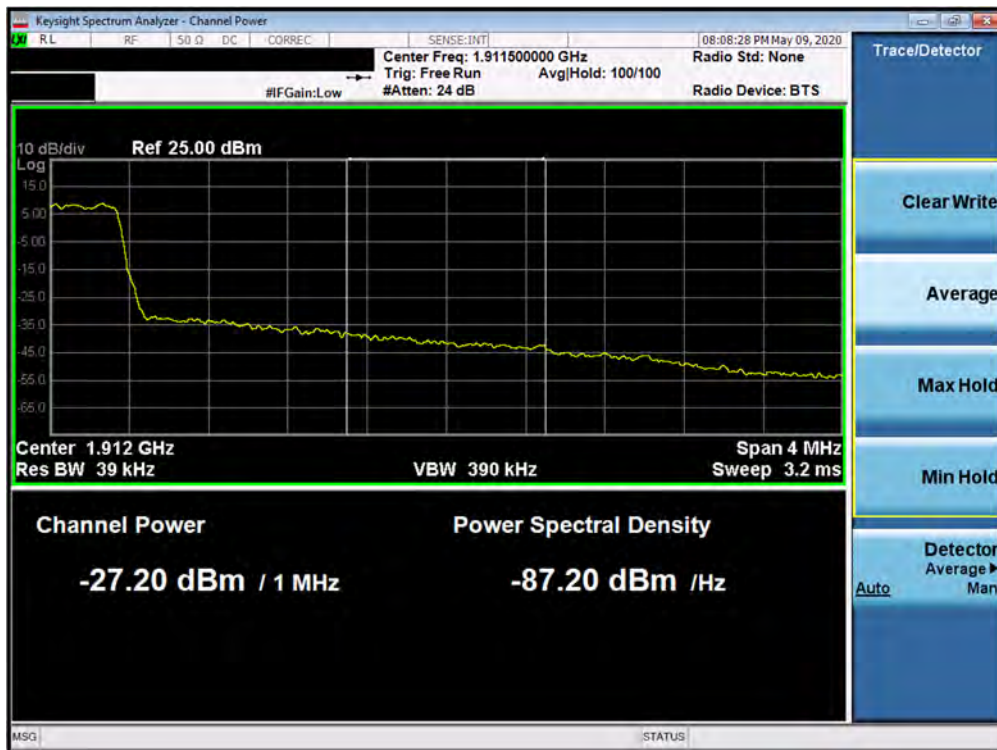


Plot 7-225. Lower Extended Band Edge Plot (Band 2 - 1.4MHz QPSK - Full RB Configuration)

FCC ID: A3LSMH303V	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2007010102-02-R1.A3L	Test Dates: 8/22 - 9/12/2020	EUT Type: Outdoor Customer Premises Equipment (CPE)		Page 136 of 284

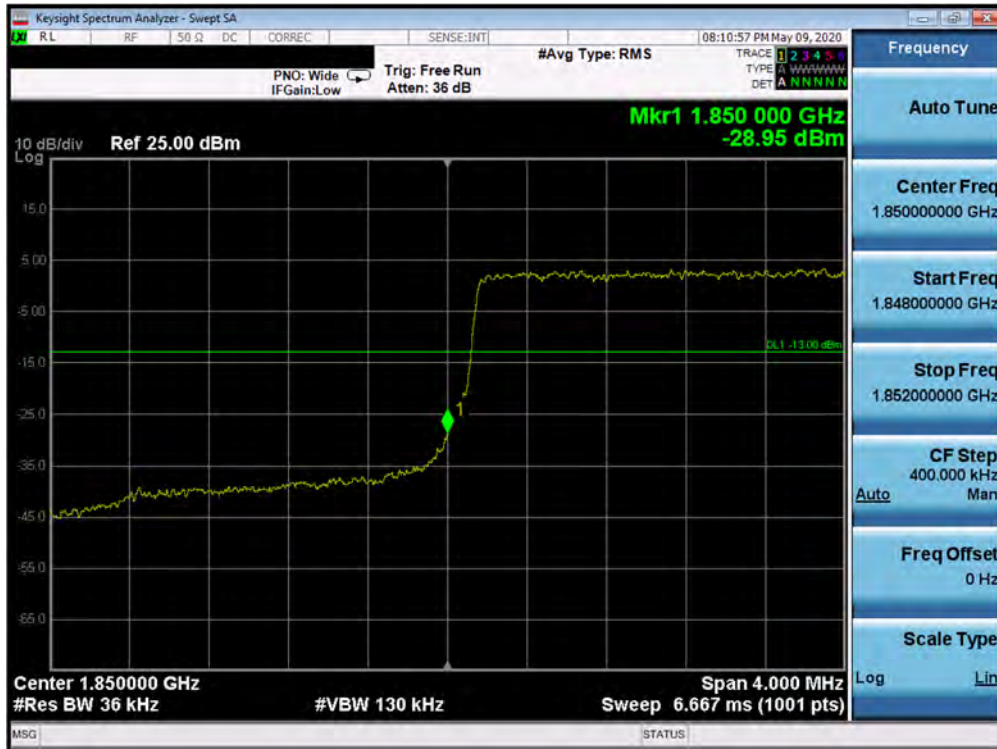


Plot 7-226. Upper Band Edge Plot (Band 2 - 1.4MHz QPSK - Full RB Configuration)

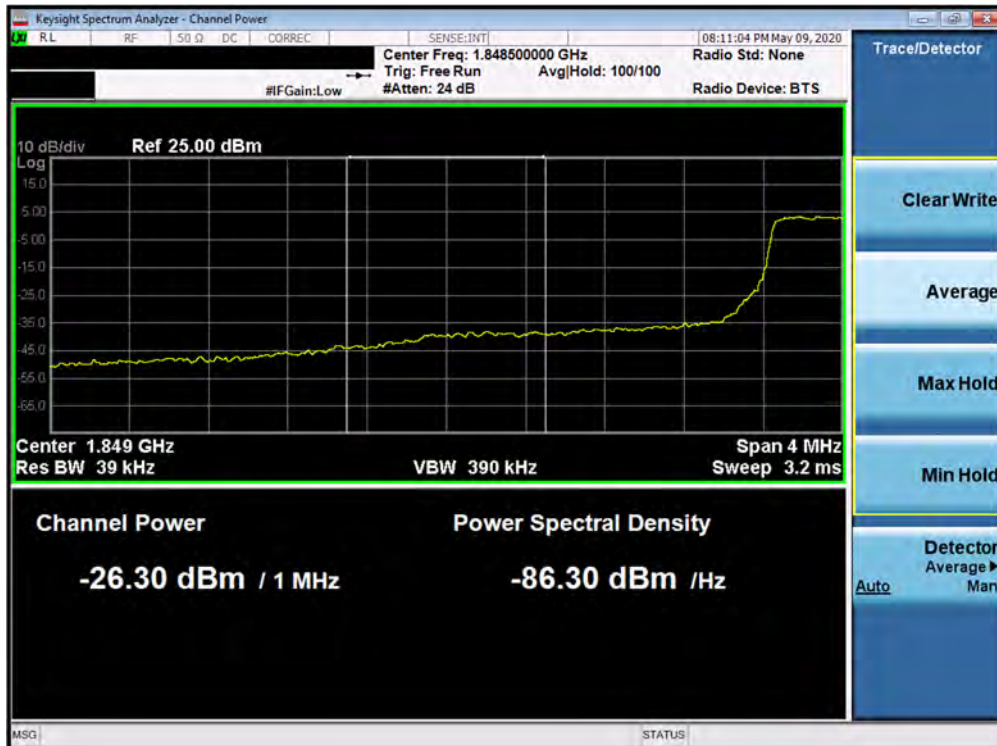


Plot 7-227. Upper Extended Band Edge Plot (Band 2 - 1.4MHz QPSK - Full RB Configuration)

FCC ID: A3LSMH303V	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2007010102-02-R1.A3L	Test Dates: 8/22 - 9/12/2020	EUT Type: Outdoor Customer Premises Equipment (CPE)		Page 137 of 284

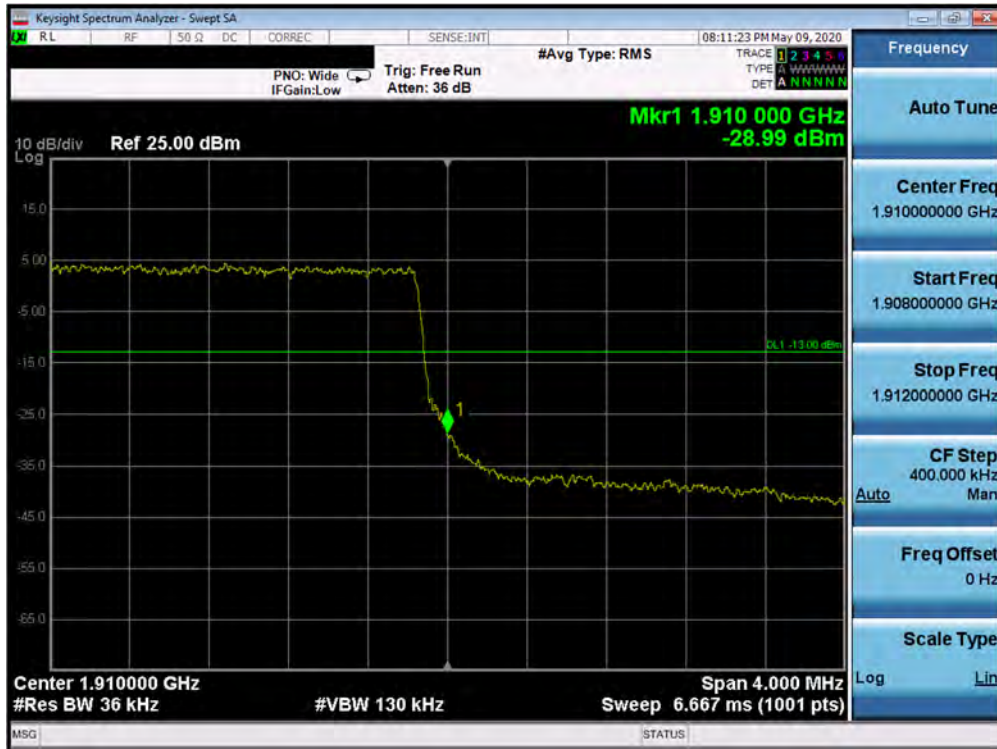


Plot 7-228. Lower Band Edge Plot (Band 2 - 3.0MHz QPSK - Full RB Configuration)

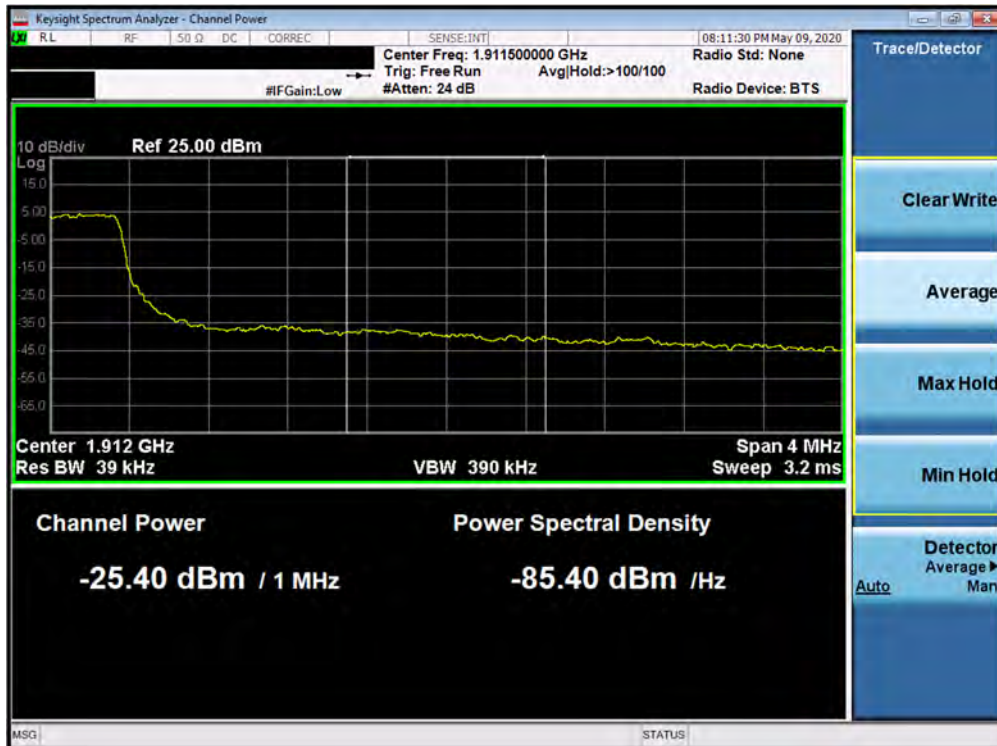


Plot 7-229. Lower Extended Band Edge Plot (Band 2 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMH303V	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2007010102-02-R1.A3L	Test Dates: 8/22 - 9/12/2020	EUT Type: Outdoor Customer Premises Equipment (CPE)		Page 138 of 284

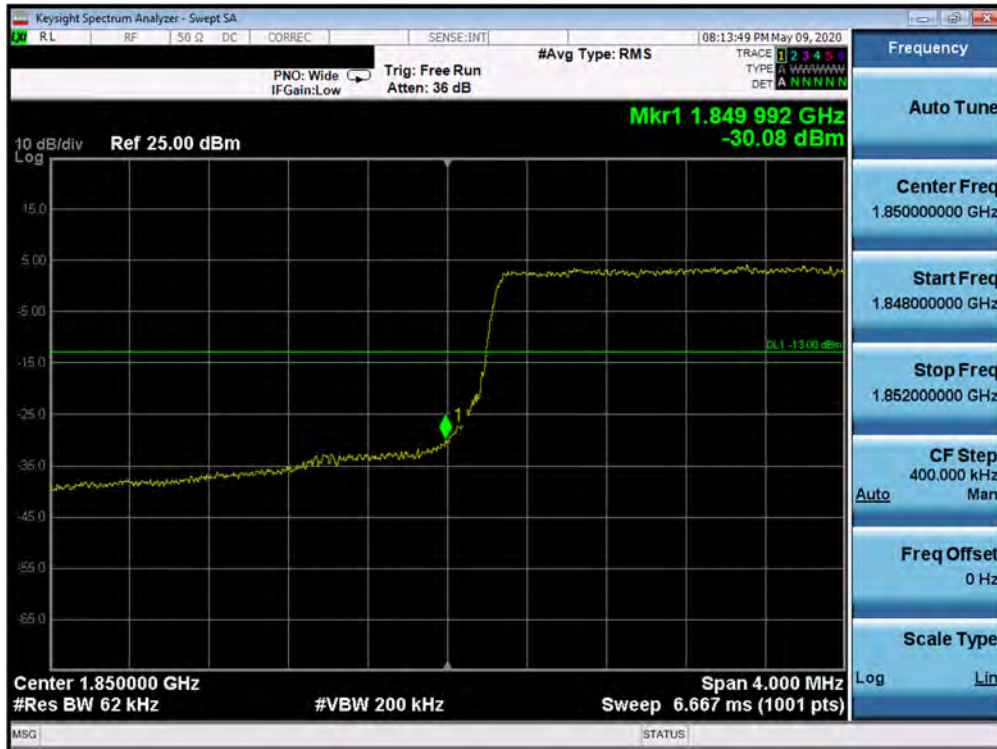


Plot 7-230. Upper Band Edge Plot (Band 2 - 3.0MHz QPSK - Full RB Configuration)

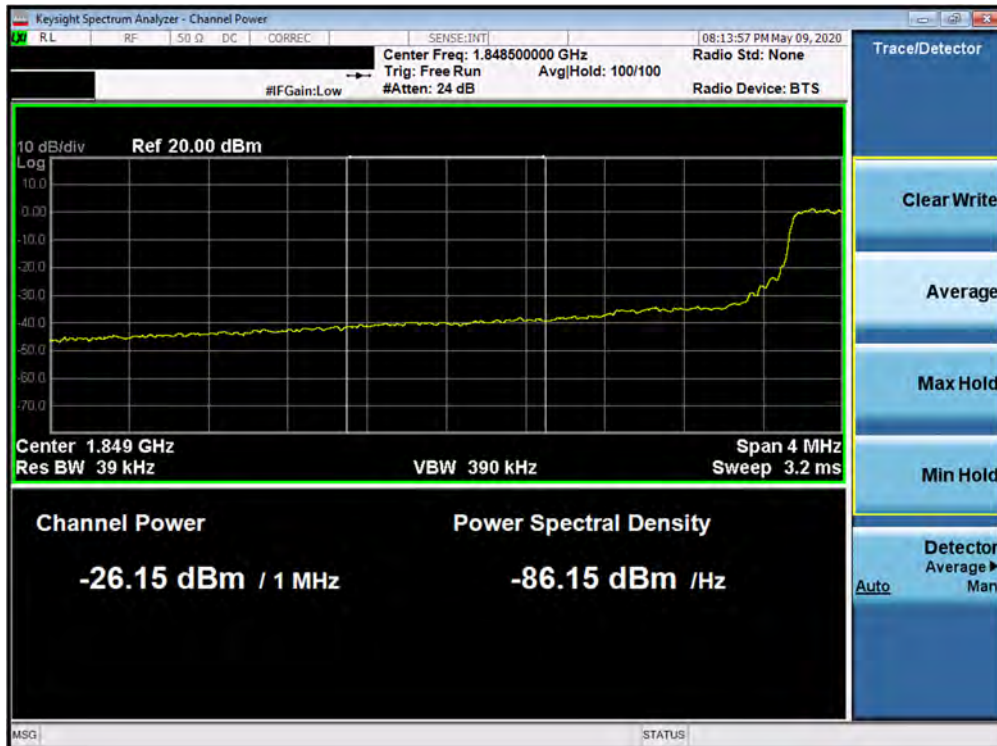


Plot 7-231. Upper Extended Band Edge Plot (Band 2 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMH303V	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2007010102-02-R1.A3L	Test Dates: 8/22 - 9/12/2020	EUT Type: Outdoor Customer Premises Equipment (CPE)		Page 139 of 284

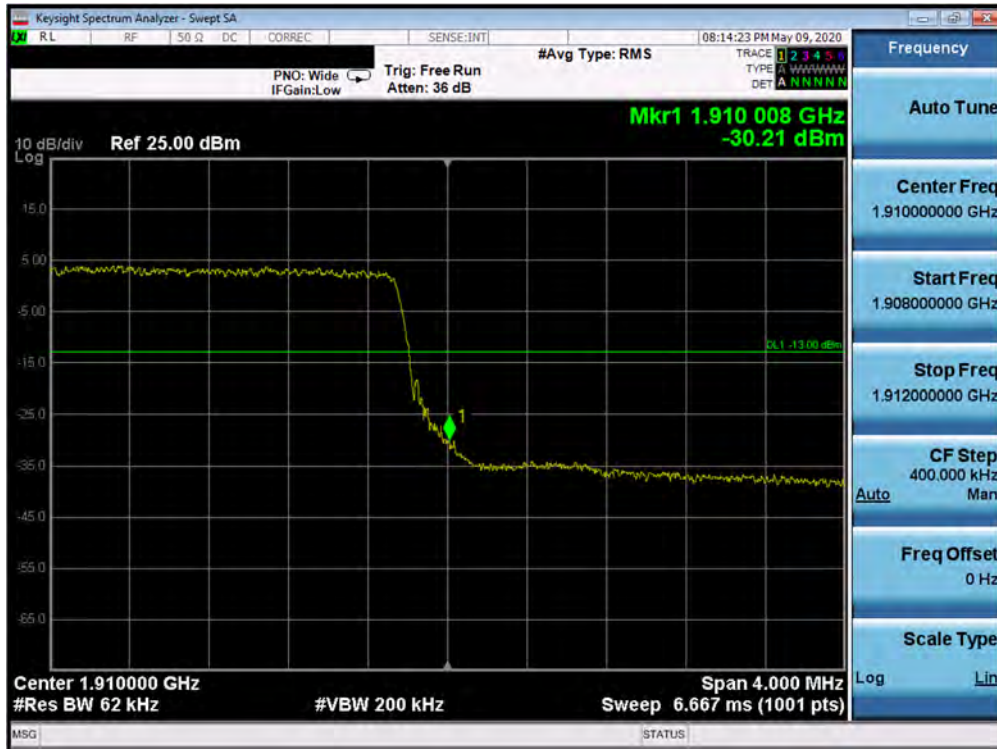


Plot 7-232. Lower Band Edge Plot (Band 2 - 5.0MHz QPSK - Full RB Configuration)

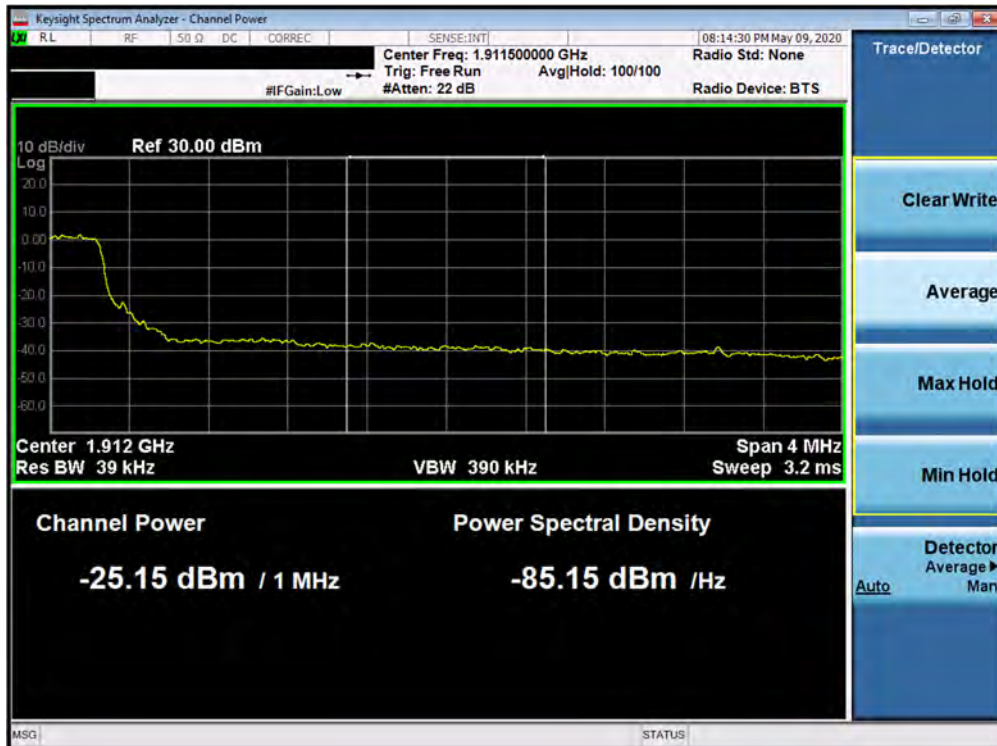


Plot 7-233. Lower Extended Band Edge Plot (Band 2 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMH303V	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2007010102-02-R1.A3L	Test Dates: 8/22 - 9/12/2020	EUT Type: Outdoor Customer Premises Equipment (CPE)		Page 140 of 284

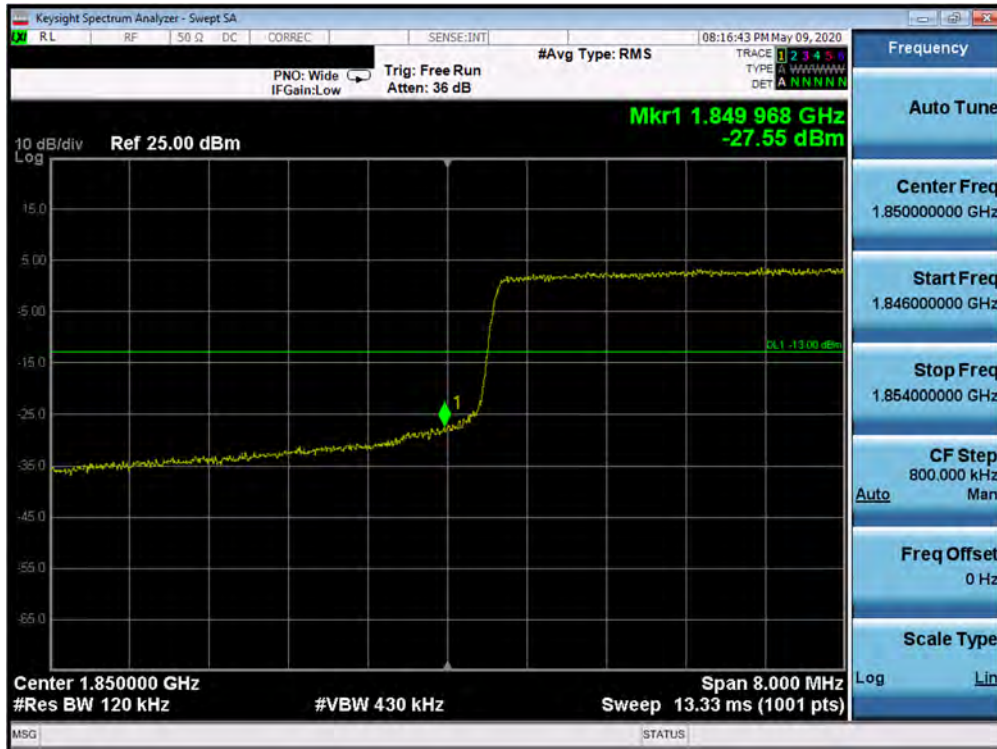


Plot 7-234. Upper Band Edge Plot (Band 2 - 5.0MHz QPSK - Full RB Configuration)

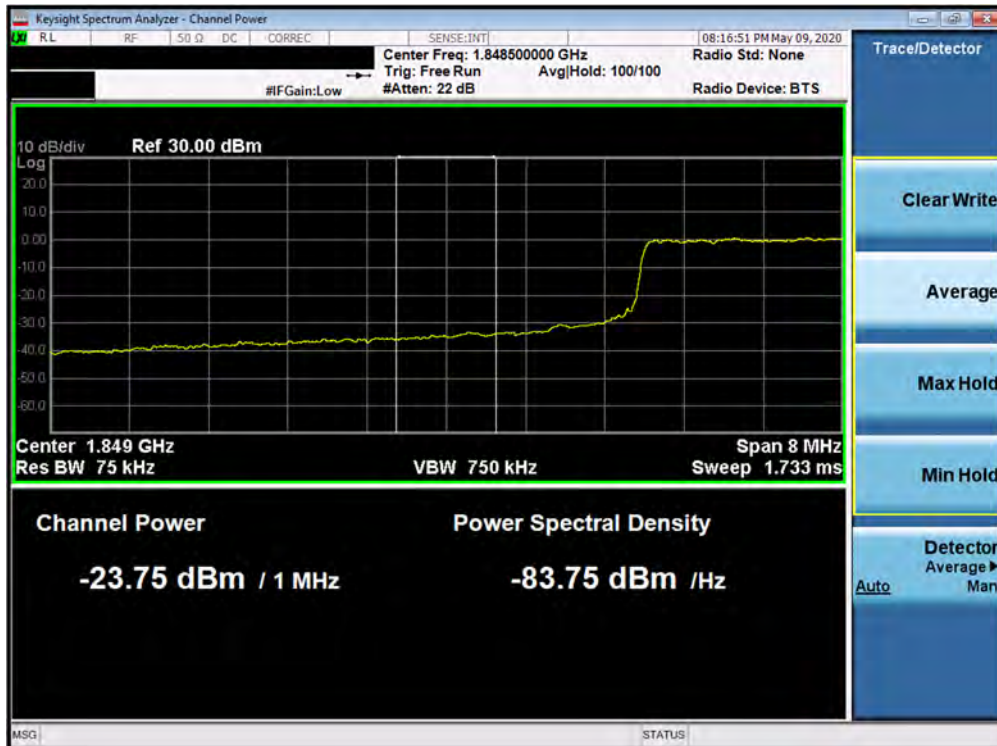


Plot 7-235. Upper Extended Band Edge Plot (Band 2 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMH303V	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2007010102-02-R1.A3L	Test Dates: 8/22 - 9/12/2020	EUT Type: Outdoor Customer Premises Equipment (CPE)		Page 141 of 284

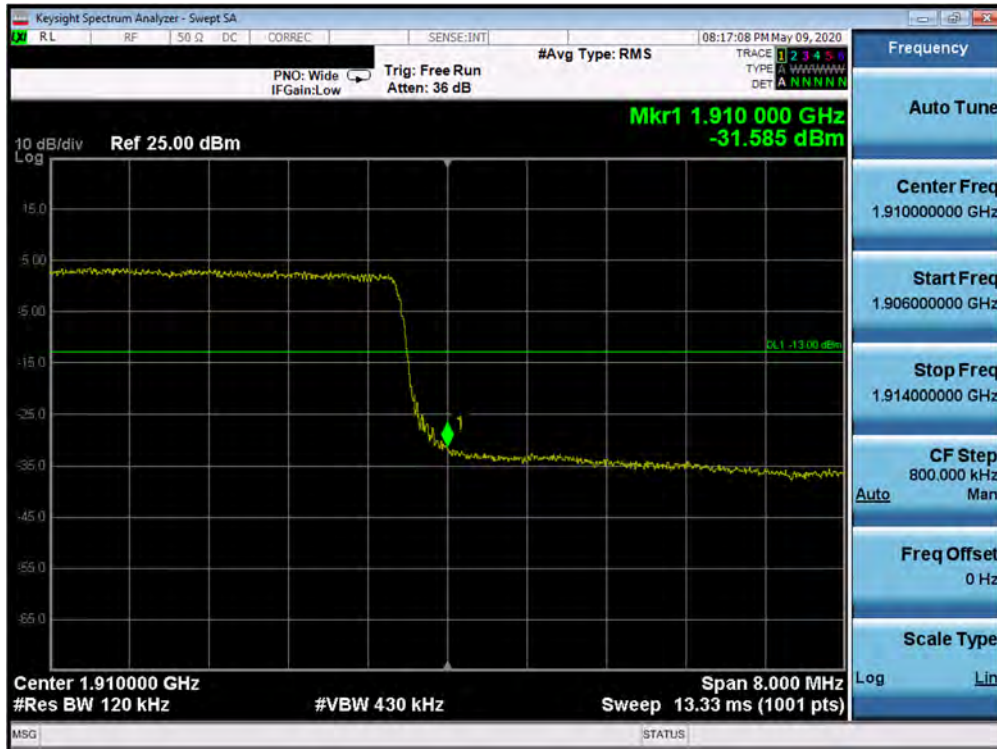


Plot 7-236. Lower Band Edge Plot (Band 2 - 10.0MHz QPSK - Full RB Configuration)

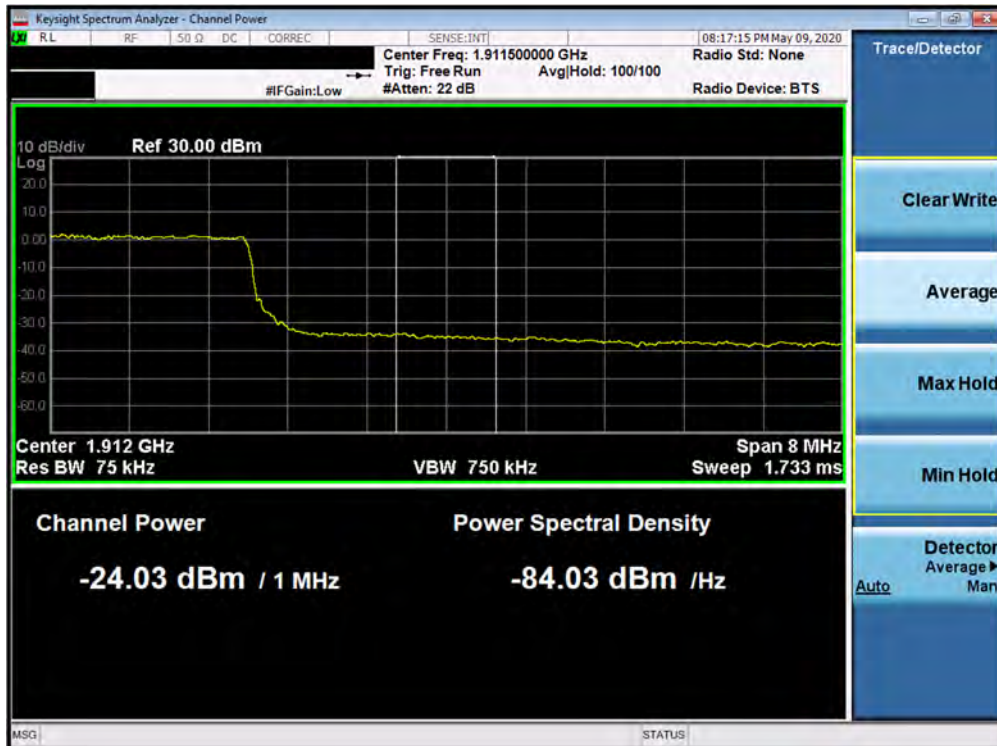


Plot 7-237. Lower Extended Band Edge Plot (Band 2 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMH303V	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2007010102-02-R1.A3L	Test Dates: 8/22 - 9/12/2020	EUT Type: Outdoor Customer Premises Equipment (CPE)		Page 142 of 284



Plot 7-238. Upper Band Edge Plot (Band 2 - 10.0MHz QPSK - Full RB Configuration)



Plot 7-239. Upper Extended Band Edge Plot (Band 2 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMH303V	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2007010102-02-R1.A3L	Test Dates: 8/22 - 9/12/2020	EUT Type: Outdoor Customer Premises Equipment (CPE)		Page 143 of 284