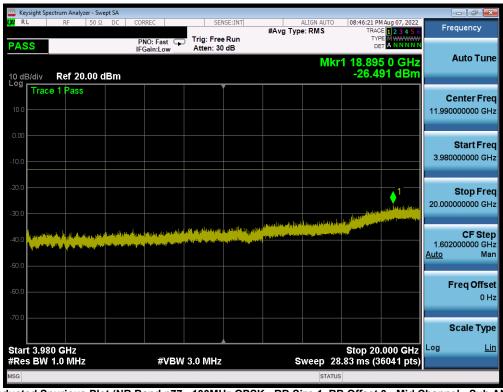


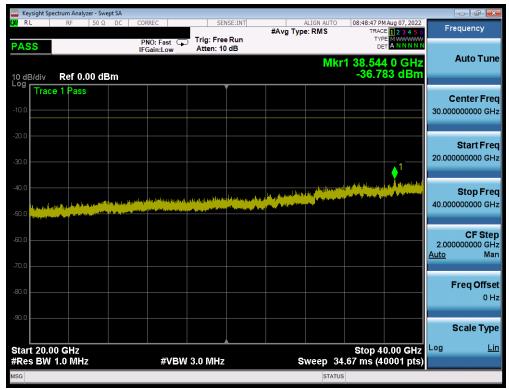
Plot 7-79. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Sub ANT (UL-MIMO))



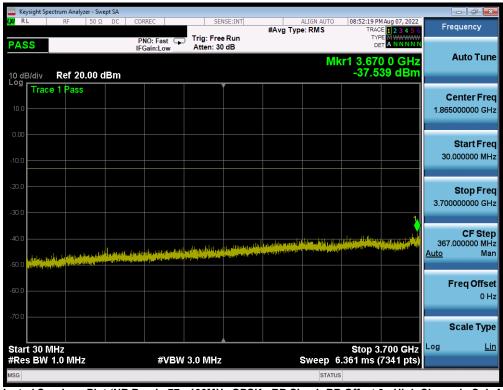
Plot 7-80. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Sub ANT (UL-MIMO))

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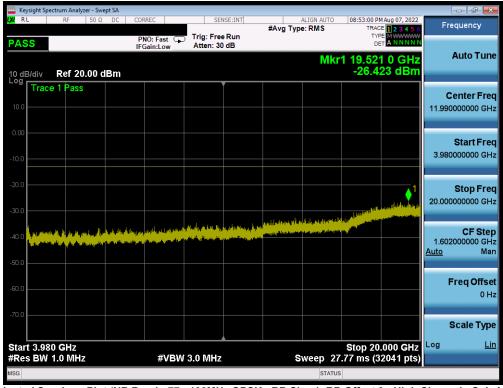
Plot 7-81. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Sub ANT (UL-MIMO))



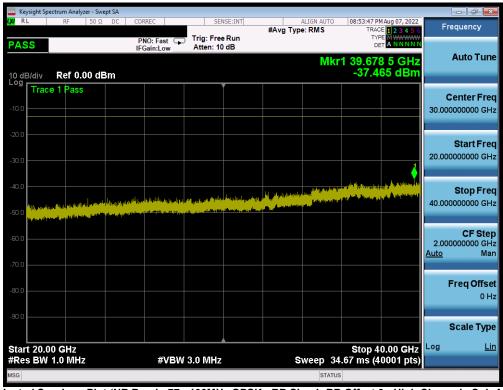
Plot 7-82. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Sub ANT (UL-MIMO))

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Plot 7-83. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Sub ANT (UL-MIMO))



Plot 7-84. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Sub ANT (UL-MIMO))

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7.5 Band Edge Emissions at Antenna Terminal

Test Overview

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at 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.

For operations in the 3700 – 3980MHz band, the maximum permissible conducted power level of any out-of-band emission is -13dBm/MHz.

Test Procedure Used

ANSI C63.26-2015 - Section 5.7.3

Test Settings

- 1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
- 2. Span was set large enough so as to capture all out of band emissions near the band edge
- 3. RBW \geq 1% of the emission bandwidth
- 4. VBW > 3 x RBW
- 5. Detector = RMS
- 6. Number of sweep points ≥ 2 x Span/RBW
- 7. Trace mode = trace average for continuous emissions, max hold for pulse emissions
- 8. Sweep time = auto couple

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9. The trace was allowed to stabilize

Test Setup

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

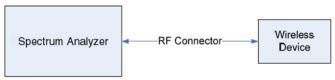


Figure 7-4. Test Instrument & Measurement Setup

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Test Notes

- 1. Per Part 27.53(I), compliance with the -13dBm/MHz conducted power limit for out-of-band emissions is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be either one percent of the emission bandwidth of the fundamental emission of the transmitter or 350 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz.
- 2. 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 emissions are attenuated at least 26 dB below the transmitter power.
- 3. 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.
- 4. In this section, the UL-MIMO NR band n77 (main and sub antennas) plots has a 3dB correction applied to the individual plots to address the MIMO requirements in ANSI C63.26.

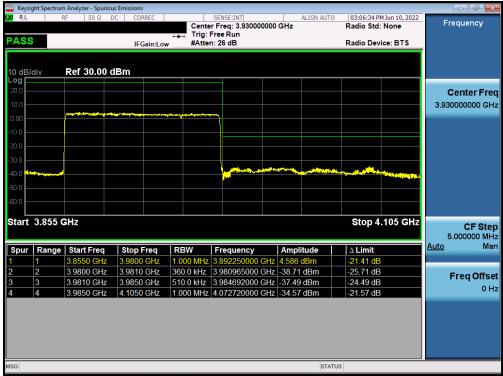
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NR Band n77 - Main ANT



Plot 7-85. Lower ACP Plot (NR Band n77 - 100MHz CP-OFDM-QPSK - Full RB - Main ANT)



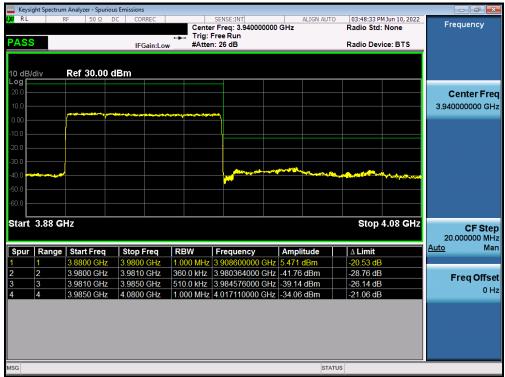
Plot 7-86. Upper ACP Plot (NR Band n77 - 100MHz CP-OFDM-QPSK - Full RB - Main ANT)

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Plot 7-87. Lower ACP Plot (NR Band n77 - 80MHz CP-OFDM-QPSK - Full RB - Main ANT)



Plot 7-88. Upper ACP Plot (NR Band n77 - 80MHz CP-OFDM-QPSK - Full RB - Main ANT)

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Plot 7-89. Lower ACP Plot (NR Band n77 - 60MHz CP-OFDM-QPSK - Full RB - Main ANT)



Plot 7-90. Upper ACP Plot (NR Band n77 - 60MHz CP-OFDM-QPSK - Full RB - Main ANT)

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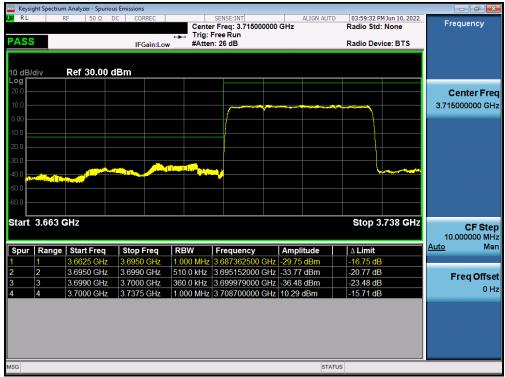
Plot 7-91. Lower ACP Plot (NR Band n77 - 40MHz CP-OFDM-QPSK - Full RB - Main ANT)



Plot 7-92. Upper ACP Plot (NR Band n77 - 40MHz CP-OFDM-QPSK - Full RB - Main ANT)

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Plot 7-93. Lower ACP Plot (NR Band n77 - 30MHz CP-OFDM-QPSK - Full RB - Main ANT)



Plot 7-94. Upper ACP Plot (NR Band n77 - 30MHz CP-OFDM-QPSK - Full RB - Main ANT)

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Plot 7-95. Lower ACP Plot (NR Band n77 - 20MHz CP-OFDM-QPSK - Full RB - Main ANT)

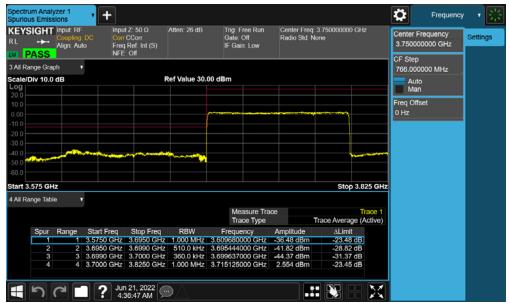


Plot 7-96. Upper ACP Plot (NR Band n77 - 20MHz CP-OFDM-QPSK - Full RB - Main ANT)

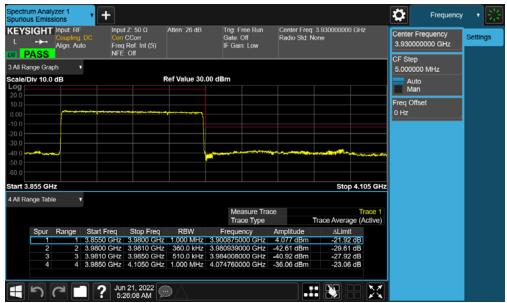
NR Band n77 - As-Div ANT

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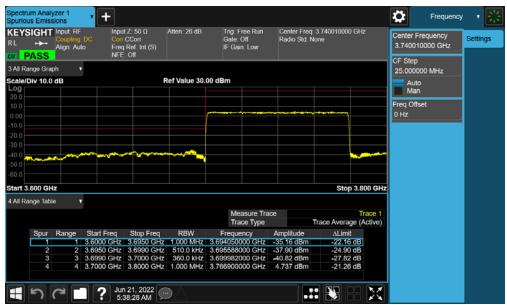
Plot 7-97. Lower ACP Plot (NR Band n77 - 100MHz CP-OFDM-QPSK - Full RB - As-Div ANT)



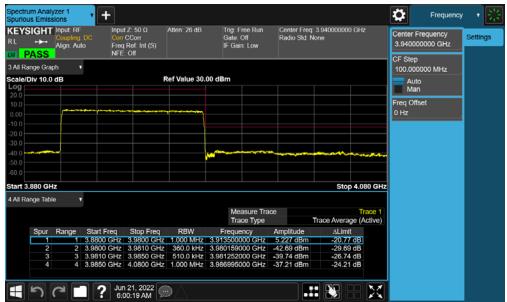
Plot 7-98. Upper ACP Plot (NR Band n77 - 100MHz CP-OFDM-QPSK - Full RB - As-Div ANT)

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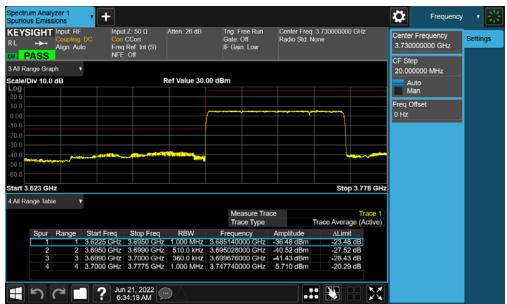
Plot 7-99. Lower ACP Plot (NR Band n77 - 80MHz CP-OFDM-QPSK - Full RB - As-Div ANT)



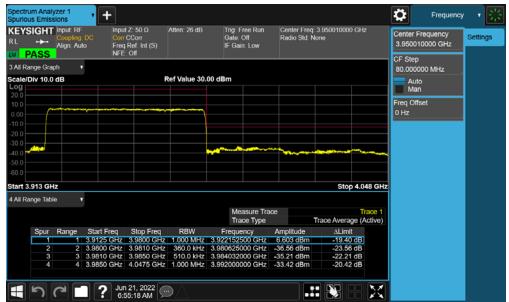
Plot 7-100. Upper ACP Plot (NR Band n77 - 80MHz CP-OFDM-QPSK - Full RB - As-Div ANT)

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Plot 7-101. Lower ACP Plot (NR Band n77 - 60MHz CP-OFDM-QPSK - Full RB - As-Div ANT)



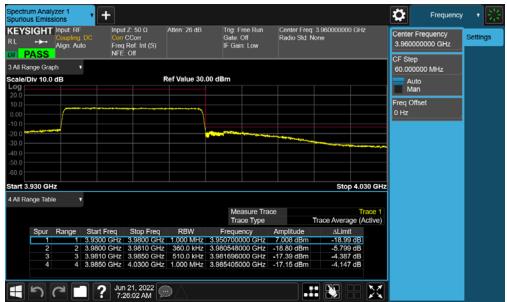
Plot 7-102. Upper ACP Plot (NR Band n77 - 60MHz CP-OFDM-QPSK - Full RB - As-Div ANT)

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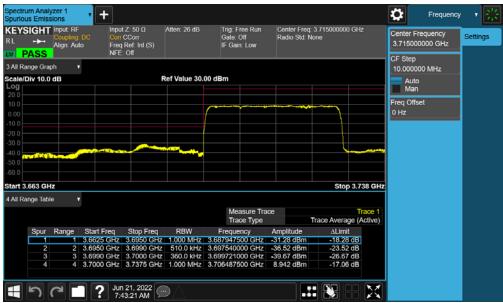
Plot 7-103. Lower ACP Plot (NR Band n77 - 40MHz CP-OFDM-QPSK - Full RB - As-Div ANT)



Plot 7-104. Upper ACP Plot (NR Band n77 - 40MHz CP-OFDM-QPSK - Full RB - As-Div ANT)

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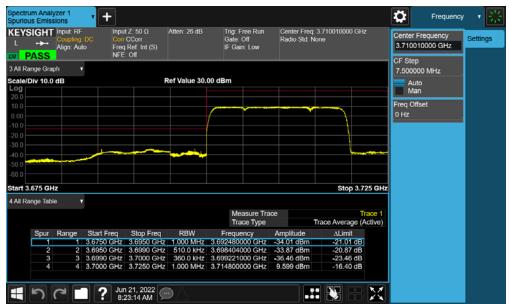
Plot 7-105. Lower ACP Plot (NR Band n77 - 30MHz CP-OFDM-QPSK - Full RB - As-Div ANT)



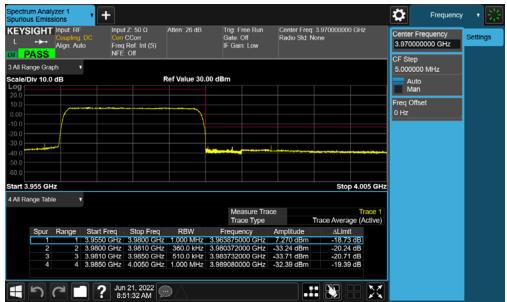
Plot 7-106. Upper ACP Plot (NR Band n77 - 30MHz CP-OFDM-QPSK - Full RB - As-Div ANT)

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Plot 7-107. Lower ACP Plot (NR Band n77 - 20MHz CP-OFDM-QPSK - Full RB - As-Div ANT)



Plot 7-108. Upper ACP Plot (NR Band n77 - 20MHz CP-OFDM-QPSK - Full RB - As-Div ANT)

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NR Band n77 - Sub ANT (UL-MIMO)



Plot 7-109. Lower ACP Plot (NR Band n77 - 100MHz CP-OFDM-QPSK - Full RB - Sub ANT (UL-MIMO))



Plot 7-110. Upper ACP Plot (NR Band n77 - 100MHz CP-OFDM-QPSK - Full RB - Sub ANT (UL-MIMO))

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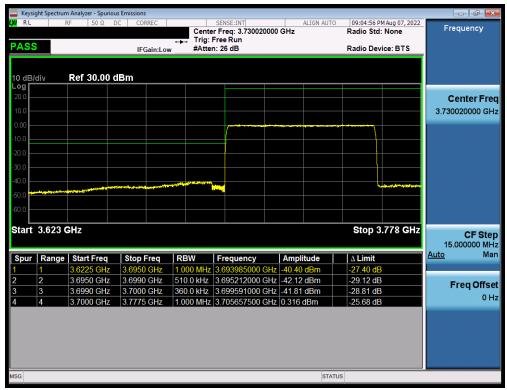
Plot 7-111. Lower ACP Plot (NR Band n77 - 80MHz CP-OFDM-QPSK - Full RB - Sub ANT (UL-MIMO))



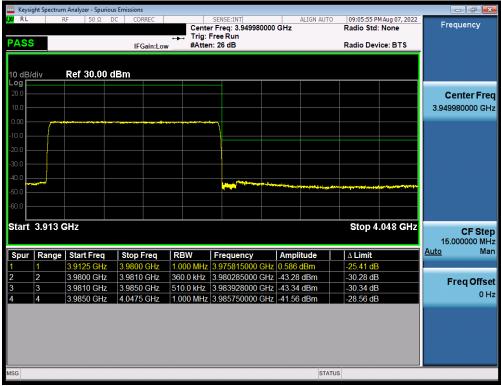
Plot 7-112. Upper ACP Plot (NR Band n77 - 80MHz CP-OFDM-QPSK - Full RB - Sub ANT (UL-MIMO))

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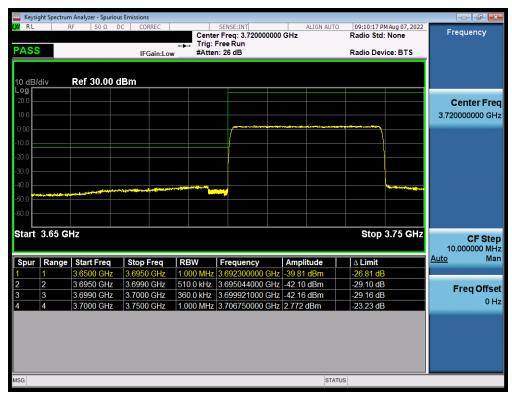
Plot 7-113. Lower ACP Plot (NR Band n77 - 60MHz CP-OFDM-QPSK - Full RB - Sub ANT (UL-MIMO))



Plot 7-114. Upper ACP Plot (NR Band n77 - 60MHz CP-OFDM-QPSK - Full RB - Sub ANT (UL-MIMO))

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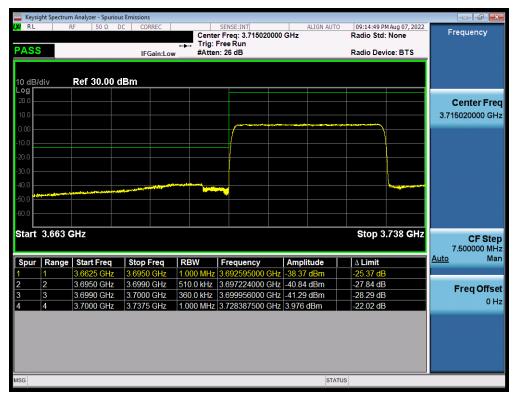
Plot 7-115. Lower ACP Plot (NR Band n77 - 40MHz CP-OFDM-QPSK - Full RB - Sub ANT (UL-MIMO))



Plot 7-116. Upper ACP Plot (NR Band n77 - 40MHz CP-OFDM-QPSK - Full RB - Sub ANT (UL-MIMO))

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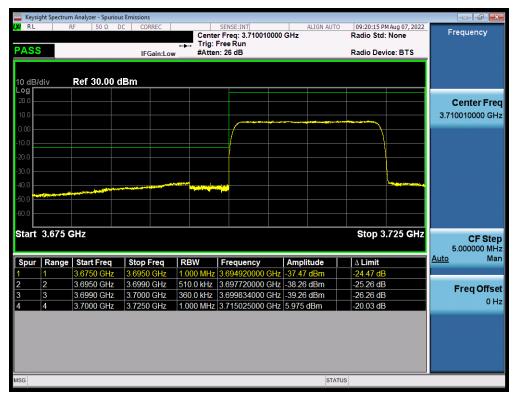
Plot 7-117. Lower ACP Plot (NR Band n77 - 30MHz CP-OFDM-QPSK - Full RB - Sub ANT (UL-MIMO))



Plot 7-118. Upper ACP Plot (NR Band n77 - 30MHz CP-OFDM-QPSK - Full RB - Sub ANT (UL-MIMO))

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Plot 7-119. Lower ACP Plot (NR Band n77 - 20MHz CP-OFDM-QPSK - Full RB - Sub ANT (UL-MIMO))



Plot 7-120. Upper ACP Plot (NR Band n77 - 20MHz CP-OFDM-QPSK - Full RB - Sub ANT (UL-MIMO))

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7.6 Peak-Average Ratio

Test Overview

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

The peak-to-average power ratio (PAPR) of the transmitter output power must not exceed 13 dB.

Test Procedure Used

ANSI C63,26-2015 - Section 5,2,3,4

Test Settings

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

Test Setup

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



Figure 7-5. Test Instrument & Measurement Setup

Test Notes

None.

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NR Band n77 - Main ANT



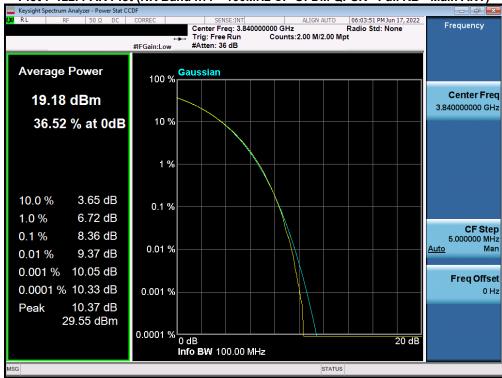
Plot 7-121. PAR Plot (NR Band n77 - 100MHz DFT-s-OFDM BPSK - Full RB - Main ANT)



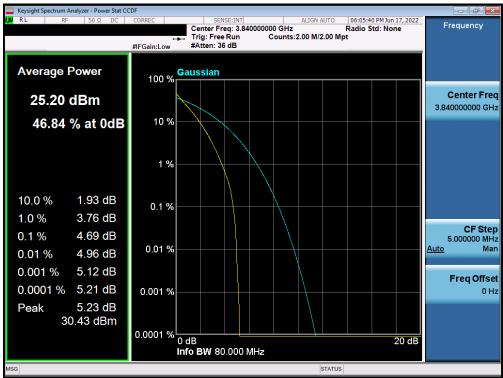
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Plot 7-122. PAR Plot (NR Band n77 - 100MHz CP-OFDM QPSK - Full RB - Main ANT)



Plot 7-123. PAR Plot (NR Band n77 - 100MHz CP-OFDM 256-QAM - Full RB - Main ANT)



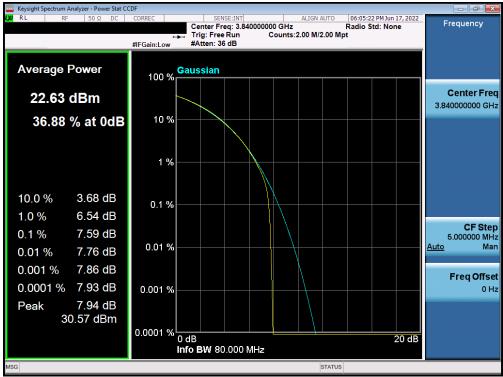
Plot 7-124. PAR Plot (NR Band n77 - 80MHz DFT-s-OFDM BPSK - Full RB - Main ANT)

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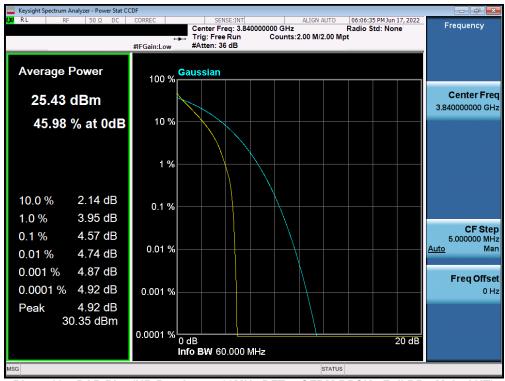
Plot 7-125. PAR Plot (NR Band n77 - 80MHz CP-OFDM QPSK - Full RB - Main ANT)



Plot 7-126. PAR Plot (NR Band n77 - 80MHz CP-OFDM 256-QAM - Full RB - Main ANT)

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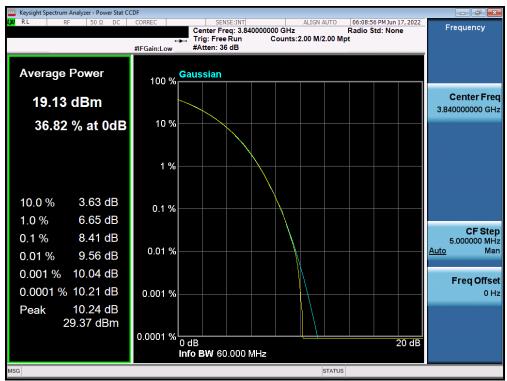
Plot 7-127. PAR Plot (NR Band n77 - 60MHz DFT-s-OFDM BPSK - Full RB - Main ANT)



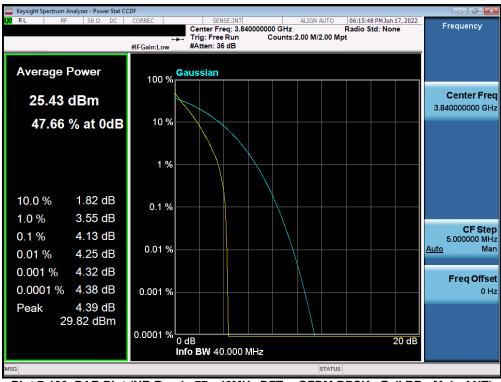
Plot 7-128. PAR Plot (NR Band n77 - 60MHz CP-OFDM QPSK - Full RB - Main ANT)

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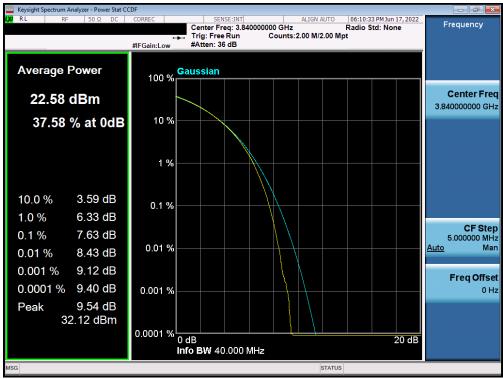
Plot 7-129. PAR Plot (NR Band n77 - 60MHz CP-OFDM 256-QAM - Full RB - Main ANT)



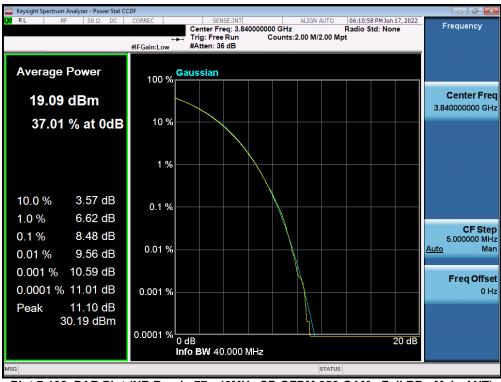
Plot 7-130. PAR Plot (NR Band n77 - 40MHz DFT-s-OFDM BPSK - Full RB - Main ANT)

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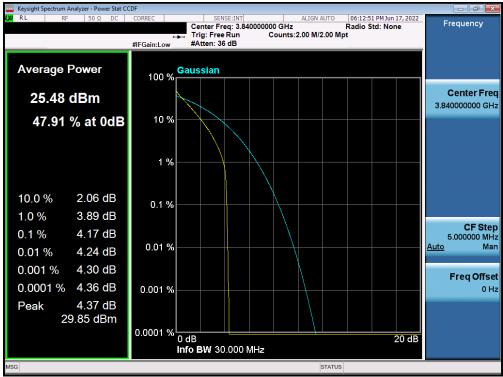
Plot 7-131. PAR Plot (NR Band n77 - 40MHz CP-OFDM QPSK - Full RB - Main ANT)



Plot 7-132. PAR Plot (NR Band n77 - 40MHz CP-OFDM 256-QAM - Full RB - Main ANT)

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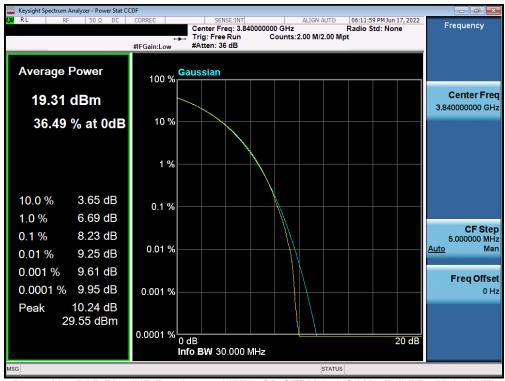
Plot 7-133. PAR Plot (NR Band n77 - 30MHz DFT-s-OFDM BPSK - Full RB - Main ANT)



Plot 7-134. PAR Plot (NR Band n77 - 30MHz CP-OFDM QPSK - Full RB - Main ANT)

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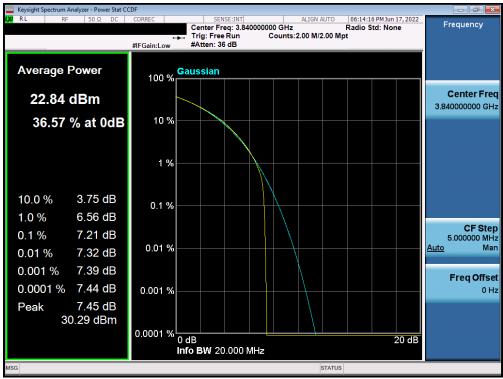
Plot 7-135. PAR Plot (NR Band n77 - 30MHz CP-OFDM 256-QAM - Full RB - Main ANT)



Plot 7-136. PAR Plot (NR Band n77 - 20MHz DFT-s-OFDM BPSK - Full RB - Main ANT)

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Plot 7-137. PAR Plot (NR Band n77 - 20MHz CP-OFDM QPSK - Full RB - Main ANT)

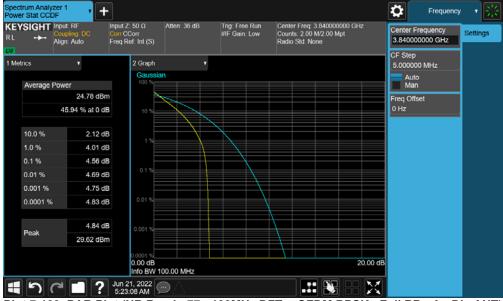


Plot 7-138. PAR Plot (NR Band n77 - 20MHz CP-OFDM 256-QAM - Full RB - Main ANT)

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NR Band n77 - As-Div ANT



Plot 7-139. PAR Plot (NR Band n77 - 100MHz DFT-s-OFDM BPSK - Full RB - As-Div ANT)



Plot 7-140. PAR Plot (NR Band n77 - 100MHz CP-OFDM QPSK - Full RB - As-Div ANT)

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Plot 7-141. PAR Plot (NR Band n77 - 100MHz CP-OFDM 256-QAM - Full RB - As-Div ANT)



Plot 7-142. PAR Plot (NR Band n77 - 80MHz DFT-s-OFDM BPSK - Full RB - As-Div ANT)

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Plot 7-143. PAR Plot (NR Band n77 - 80MHz CP-OFDM QPSK - Full RB - As-Div ANT)



Plot 7-144. PAR Plot (NR Band n77 - 80MHz CP-OFDM 256-QAM - Full RB - As-Div ANT)

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Plot 7-145. PAR Plot (NR Band n77 - 60MHz DFT-s-OFDM BPSK - Full RB - As-Div ANT)



Plot 7-146. PAR Plot (NR Band n77 - 60MHz CP-OFDM QPSK - Full RB - As-Div ANT)

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Plot 7-147. PAR Plot (NR Band n77 - 60MHz CP-OFDM 256-QAM - Full RB - As-Div ANT)



Plot 7-148. PAR Plot (NR Band n77 - 40MHz DFT-s-OFDM BPSK - Full RB - As-Div ANT)

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Plot 7-149. PAR Plot (NR Band n77 - 40MHz CP-OFDM QPSK - Full RB - As-Div ANT)



Plot 7-150. PAR Plot (NR Band n77 - 40MHz CP-OFDM 256-QAM - Full RB - As-Div ANT)

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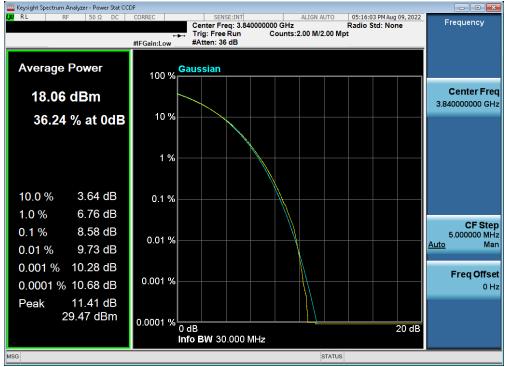
Plot 7-151. PAR Plot (NR Band n77 - 30MHz DFT-s-OFDM BPSK - Full RB - As-Div ANT)



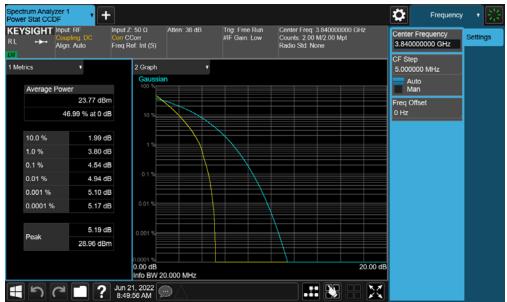
Plot 7-152. PAR Plot (NR Band n77 - 30MHz CP-OFDM QPSK - Full RB - As-Div ANT)

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Plot 7-153. PAR Plot (NR Band n77 - 30MHz CP-OFDM 256-QAM - Full RB - As-Div ANT)



Plot 7-154. PAR Plot (NR Band n77 - 20MHz DFT-s-OFDM BPSK - Full RB - As-Div ANT)

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Plot 7-155. PAR Plot (NR Band n77 - 20MHz CP-OFDM QPSK - Full RB - As-Div ANT)



Plot 7-156. PAR Plot (NR Band n77 - 20MHz CP-OFDM 256-QAM - Full RB - As-Div ANT)

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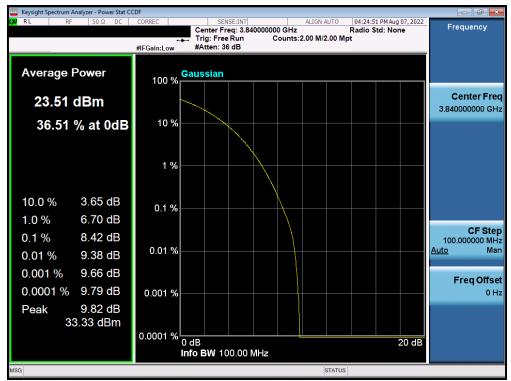
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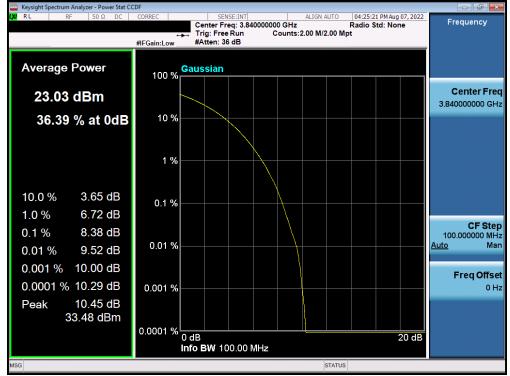
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NR Band n77 - Sub ANT (UL-MIMO)



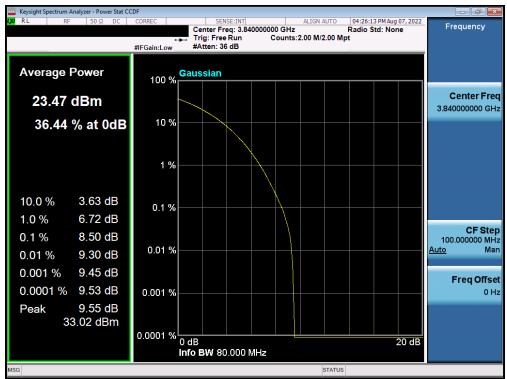
Plot 7-157. PAR Plot (NR Band n77 - 100MHz CP-OFDM QPSK - Full RB - Sub ANT (UL-MIMO))



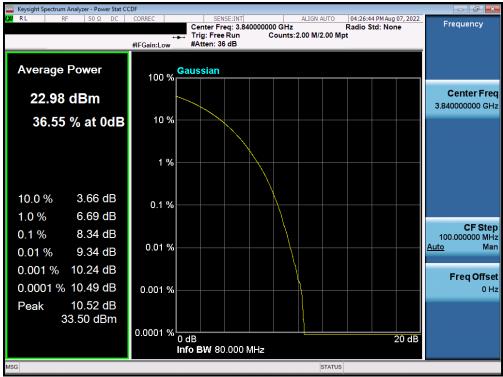
Plot 7-158. PAR Plot (NR Band n77 - 100MHz CP-OFDM 256-QAM - Full RB - Sub ANT (UL-MIMO))

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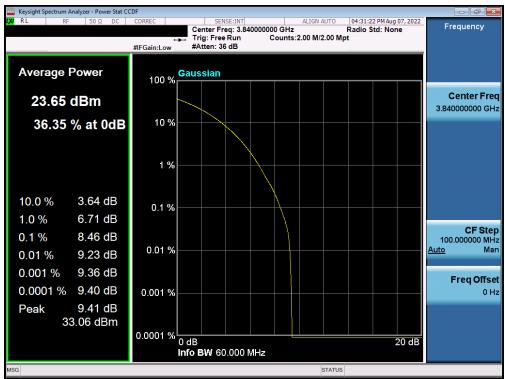
Plot 7-159. PAR Plot (NR Band n77 - 80MHz CP-OFDM QPSK - Full RB - Sub ANT (UL-MIMO))



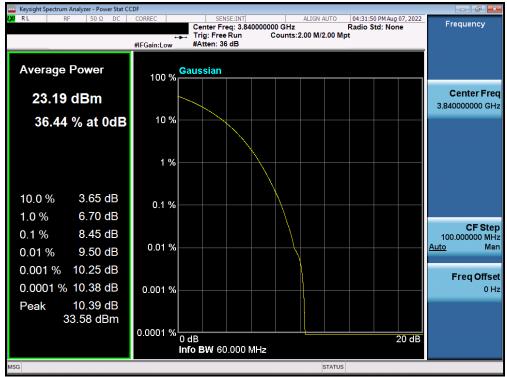
Plot 7-160. PAR Plot (NR Band n77 - 80MHz CP-OFDM 256-QAM - Full RB - Sub ANT (UL-MIMO))

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Plot 7-161. PAR Plot (NR Band n77 - 60MHz CP-OFDM QPSK - Full RB - Sub ANT (UL-MIMO))



Plot 7-162. PAR Plot (NR Band n77 - 60MHz CP-OFDM 256-QAM - Full RB - Sub ANT (UL-MIMO))

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