

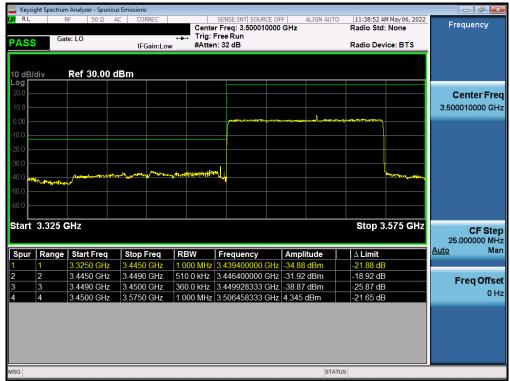
Plot 7-137. Lower ACP Plot (NR Band n77 - DoD Band - 100MHz DFT-s-OFDM QPSK - Full RB - SRS-2)



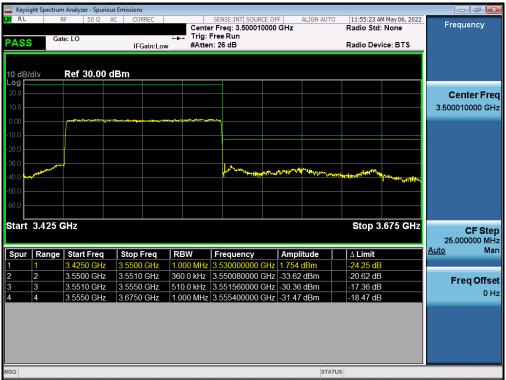
Plot 7-138. Upper ACP Plot (NR Band n77 - DoD Band - 100MHz CP-OFDM QPSK - Full RB - SRS-2)

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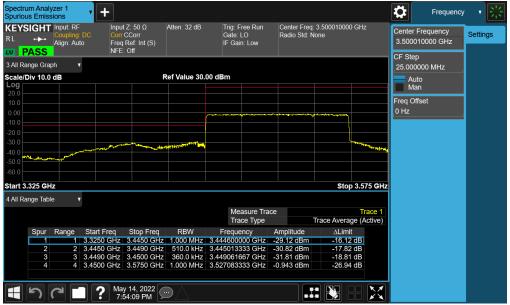
Plot 7-139. Lower ACP Plot (NR Band n77 - DoD Band - 100MHz DFT-s-OFDM QPSK - Full RB - SRS-3)



Plot 7-140. Upper ACP Plot (NR Band n77 - DoD Band - 100MHz DFT-s-OFDM QPSK - Full RB - SRS-3)

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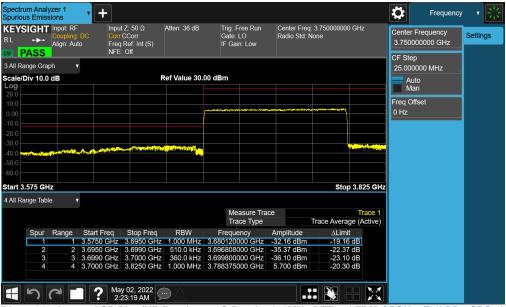
Plot 7-141. Lower ACP Plot (NR Band n77 - DoD Band - 100MHz DFT-s-OFDM QPSK - Full RB - SRS-4)



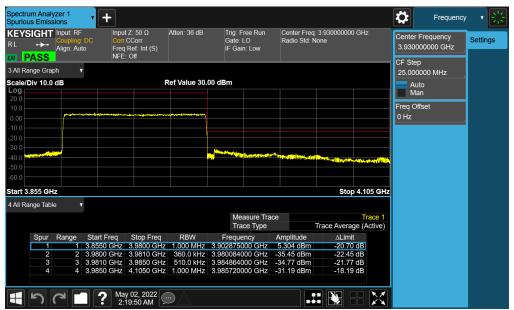
Plot 7-142. Upper ACP Plot (NR Band n77 - DoD Band - 100MHz DFT-s-OFDM QPSK - Full RB - SRS-4)

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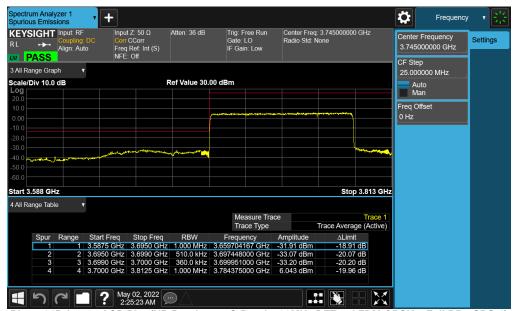
Plot 7-143. Lower ACP Plot (NR Band n77 - C-Band - 100MHz DFT-s-OFDM QPSK - Full RB - SRS-1)



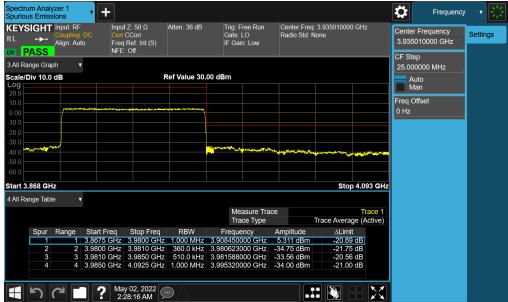
Plot 7-144. Upper ACP Plot (NR Band n77 - C-Band - 100MHz CP-OFDM QPSK - Full RB - SRS-1)

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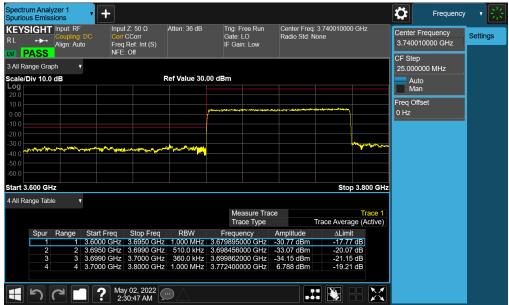
Plot 7-145. Lower ACP Plot (NR Band n77 - C-Band - 90MHz DFT-s-OFDM QPSK - Full RB - SRS-1)



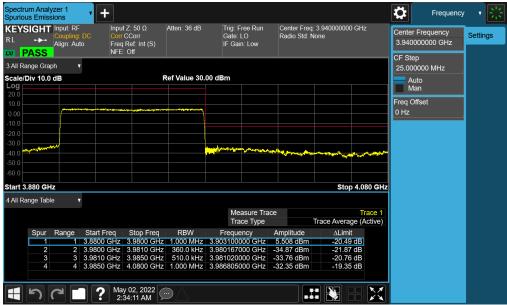
Plot 7-146. Upper ACP Plot (NR Band n77 - C-Band – 90MHz DFT-s-OFDM QPSK – Full RB - SRS-1)

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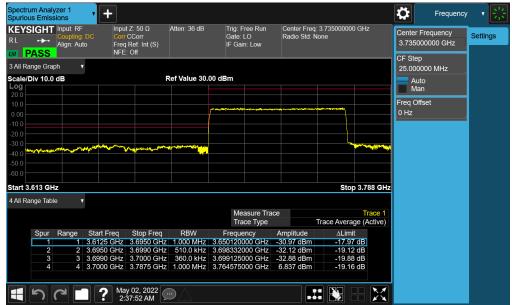
Plot 7-147. Lower ACP Plot (NR Band n77 - C-Band - 80MHz CP-OFDM QPSK - Full RB - SRS-1)



Plot 7-148. Upper ACP Plot (NR Band n77 - C-Band - 80MHz DFT-s-OFDM QPSK - Full RB - SRS-1)

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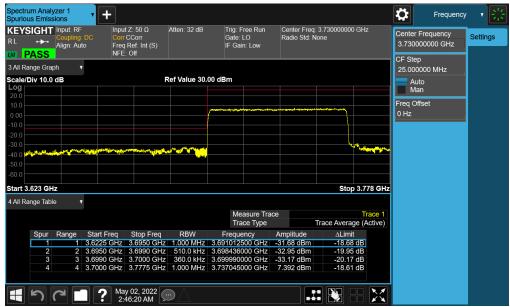
Plot 7-149. Lower ACP Plot (NR Band n77 - C-Band - 70MHz DFT-s-OFDM QPSK - Full RB - SRS-1)



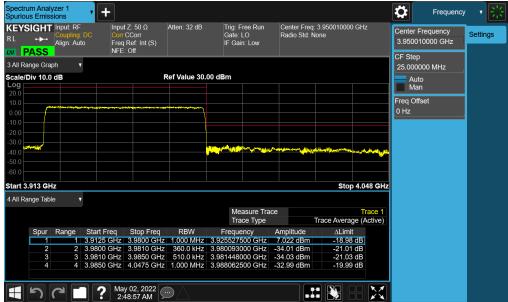
Plot 7-150. Upper ACP Plot (NR Band n77 - C-Band - 70MHz DFT-s-OFDM QPSK - Full RB - SRS-1)

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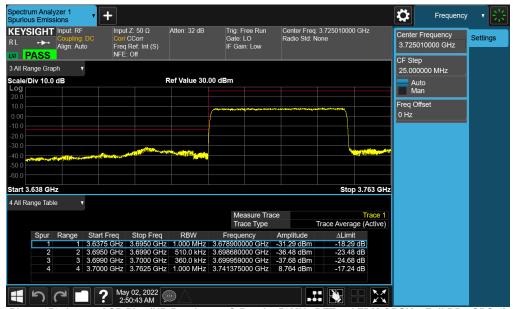
Plot 7-151. Lower ACP Plot (NR Band n77 - C-Band - 60MHz DFT-s-OFDM QPSK - Full RB - SRS-1)



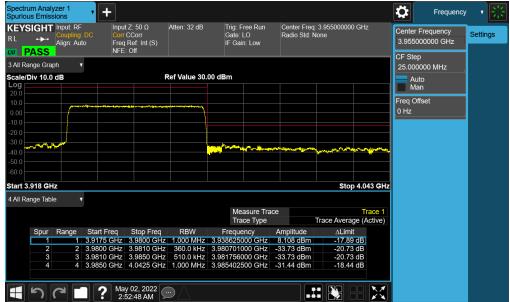
Plot 7-152. Upper ACP Plot (NR Band n77 - C-Band - 60MHz DFT-s-OFDM QPSK - Full RB - SRS-1)

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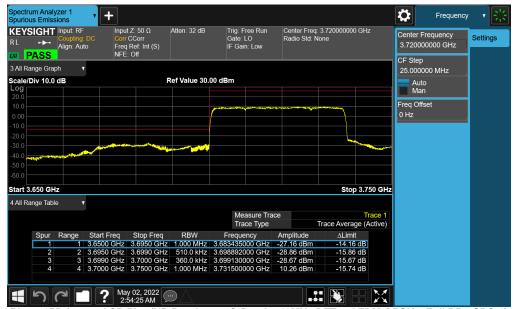
Plot 7-153. Lower ACP Plot (NR Band n77 - C-Band - 50MHz DFT-s-OFDM QPSK - Full RB - SRS-1)



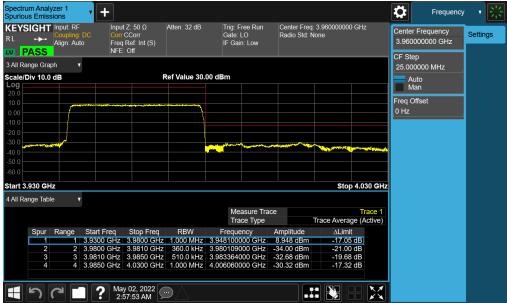
Plot 7-154. Upper ACP Plot (NR Band n77 - C-Band - 50MHz DFT-s-OFDM QPSK - Full RB - SRS-1)

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Plot 7-155. Lower ACP Plot (NR Band n77 - C-Band - 40MHz DFT-s-OFDM QPSK - Full RB - SRS-1)



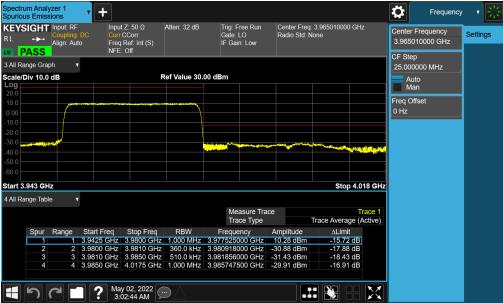
Plot 7-156. Upper ACP Plot (NR Band n77 - C-Band - 40MHz DFT-s-OFDM QPSK - Full RB - SRS-1)

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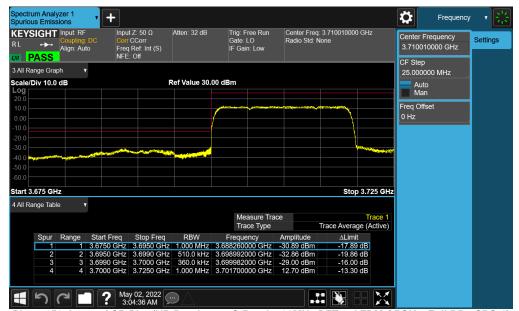
Plot 7-157. Lower ACP Plot (NR Band n77 - C-Band - 30MHz DFT-s-OFDM QPSK - Full RB - SRS-1)



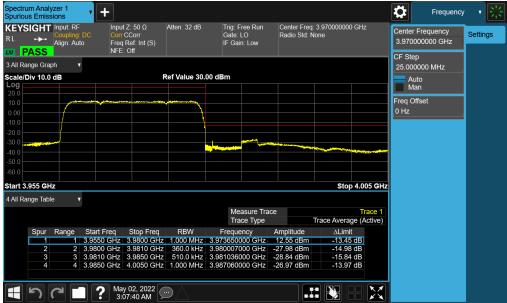
Plot 7-158. Upper ACP Plot (NR Band n77 - C-Band - 30MHz DFT-s-OFDM QPSK - Full RB - SRS-1)

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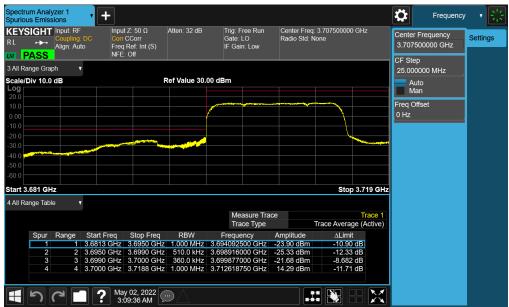
Plot 7-159. Lower ACP Plot (NR Band n77 - C-Band - 20MHz DFT-s-OFDM QPSK - Full RB - SRS-1)



Plot 7-160. Upper ACP Plot (NR Band n77 - C-Band - 20MHz DFT-s-OFDM QPSK - Full RB - SRS-1)

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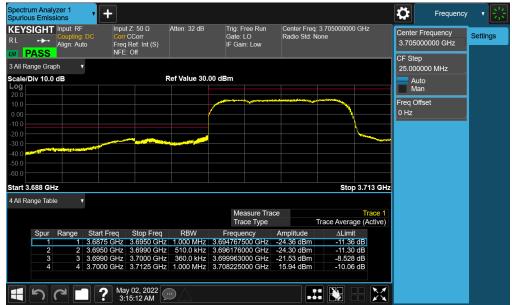
Plot 7-161. Lower ACP Plot (NR Band n77 - C-Band - 15MHz DFT-s-QPSK - Full RB - SRS-1)



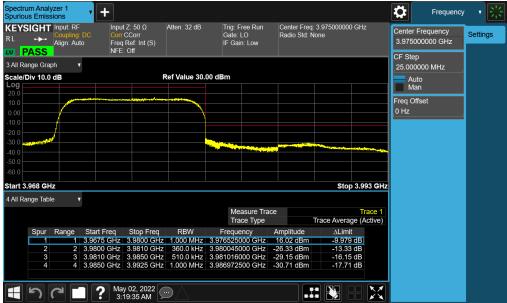
Plot 7-162. Upper ACP Plot (NR Band n77 - C-Band – 15MHz DFT-s-OFDM QPSK – Full RB - SRS-1)

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Plot 7-163. Lower ACP Plot (NR Band n77 - C-Band - 10MHz DFT-s-OFDM QPSK - Full RB - SRS-1)



Plot 7-164. Upper ACP Plot (NR Band n77 - C-Band – 10MHz DFT-s-OFDM QPSK – Full RB - SRS-1)

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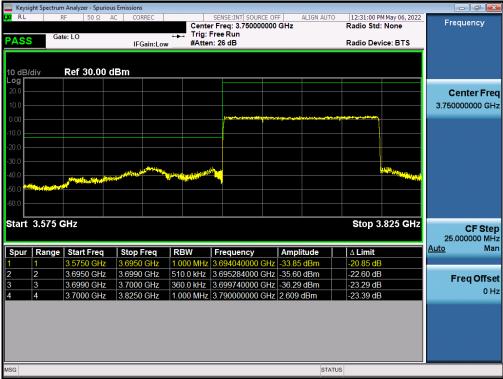
Plot 7-165. Lower ACP Plot (NR Band n77 - C-Band - 100MHz CP-OFDM QPSK - Full RB - SRS-2)



Plot 7-166. Upper ACP Plot (NR Band n77 - C-Band - 100MHz DFT-s-OFDM QPSK - Full RB - SRS-2)

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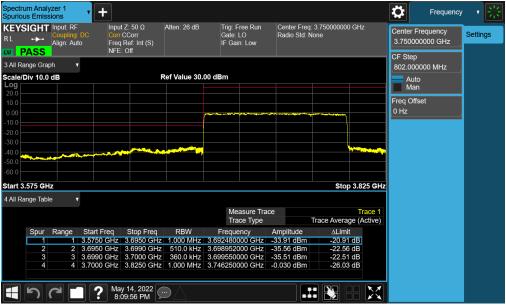
Plot 7-167. Lower ACP Plot (NR Band n77 - C-Band - 100MHz DFT-s-OFDM QPSK - Full RB - SRS-3)



Plot 7-168. Upper ACP Plot (NR Band n77 - C-Band - 100MHz DFT-s-OFDM QPSK - Full RB - SRS-3)

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Plot 7-169. Lower ACP Plot (NR Band n77 - C-Band - 100MHz DFT-s-OFDM QPSK - Full RB - SRS-4)



Plot 7-170. Upper ACP Plot (NR Band n77 - C-Band - 100MHz DFT-s-OFDM QPSK - Full RB - SRS-4)

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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

The Peak to Average Ratio was only measured on the antenna (SRS-1) with the highest power for each band.

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NR Band n77 (PC2) - DoD Band



Plot 7-171. PAR Plot (NR Band n77 - DoD Band - 100MHz DFT-s-OFDM π/2 BPSK - Full RB)



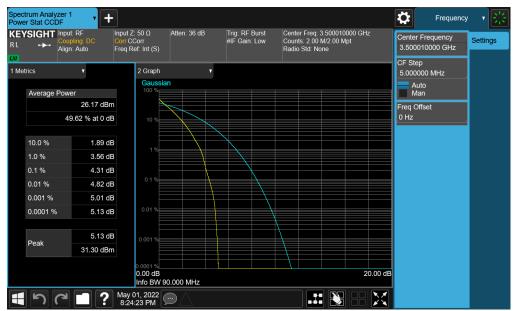
Plot 7-172. PAR Plot (NR Band n77 - DoD Band - 100MHz CP-OFDM QPSK - Full RB)

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Plot 7-173. PAR Plot (NR Band n77 - DoD Band - 100MHz CP-OFDM 256-QAM - Full RB)



Plot 7-174. PAR Plot (NR Band n77 - DoD Band – 90MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

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Plot 7-175. PAR Plot (NR Band n77 - DoD Band - 90MHz CP-OFDM QPSK - Full RB)



Plot 7-176. PAR Plot (NR Band n77 - DoD Band - 90MHz CP-OFDM 256-QAM - Full RB)

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Plot 7-177. PAR Plot (NR Band n77 - DoD Band – 80MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)



Plot 7-178. PAR Plot (NR Band n77 - DoD Band - 80MHz CP-OFDM QPSK - Full RB)

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Plot 7-179. PAR Plot (NR Band n77 - DoD Band - 80MHz CP-OFDM 256-QAM - Full RB)



Plot 7-180. PAR Plot (NR Band n77 - DoD Band – 70MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

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Plot 7-181. PAR Plot (NR Band n77 - DoD Band - 70MHz CP-OFDM QPSK - Full RB)



Plot 7-182. PAR Plot (NR Band n77 - DoD Band - 70MHz CP-OFDM 256-QAM - Full RB)

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Plot 7-183. PAR Plot (NR Band n77 - DoD Band – 60MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)



Plot 7-184. PAR Plot (NR Band n77 - DoD Band - 60MHz CP-OFDM QPSK - Full RB)

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Plot 7-185. PAR Plot (NR Band n77 - DoD Band - 60MHz CP-OFDM 256-QAM - Full RB)



Plot 7-186. PAR Plot (NR Band n77 - DoD Band – 50MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

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Plot 7-187. PAR Plot (NR Band n77 - DoD Band - 50MHz CP-OFDM QPSK - Full RB)



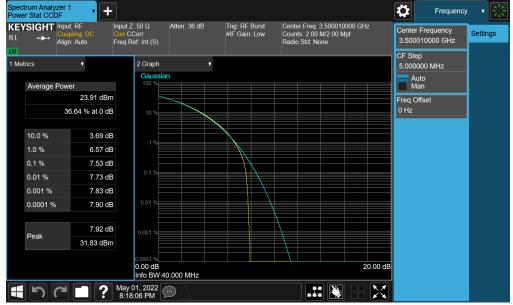
Plot 7-188. PAR Plot (NR Band n77 - DoD Band - 50MHz CP-OFDM 256-QAM - Full RB)

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Plot 7-189. PAR Plot (NR Band n77 - DoD Band – 40MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)



Plot 7-190. PAR Plot (NR Band n77 - DoD Band - 40MHz CP-OFDM QPSK - Full RB)

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Plot 7-191. PAR Plot (NR Band n77 - DoD Band - 40MHz CP-OFDM 256-QAM - Full RB)



Plot 7-192. PAR Plot (NR Band n77 - DoD Band – 30MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

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Plot 7-193. PAR Plot (NR Band n77 - DoD Band - 30MHz CP-OFDM QPSK - Full RB)



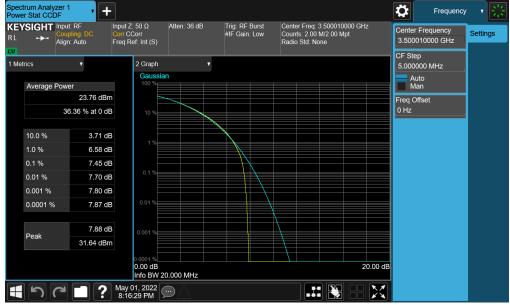
Plot 7-194. PAR Plot (NR Band n77 - DoD Band - 30MHz CP-OFDM 256-QAM - Full RB)

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Plot 7-195. PAR Plot (NR Band n77 - DoD Band – 20MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)



Plot 7-196. PAR Plot (NR Band n77 - DoD Band - 20MHz CP-OFDM QPSK - Full RB)

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Plot 7-197. PAR Plot (NR Band n77 - DoD Band - 20MHz CP-OFDM 256-QAM - Full RB)



Plot 7-198. PAR Plot (NR Band n77 - DoD Band – 15MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

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Plot 7-199. PAR Plot (NR Band n77 - DoD Band - 15MHz CP-OFDM QPSK - Full RB)



Plot 7-200. PAR Plot (NR Band n77 - DoD Band - 15MHz CP-OFDM 256-QAM - Full RB)

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Plot 7-201. PAR Plot (NR Band n77 - DoD Band – 10MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)



Plot 7-202. PAR Plot (NR Band n77 - DoD Band - 10MHz CP-OFDM QPSK - Full RB)

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