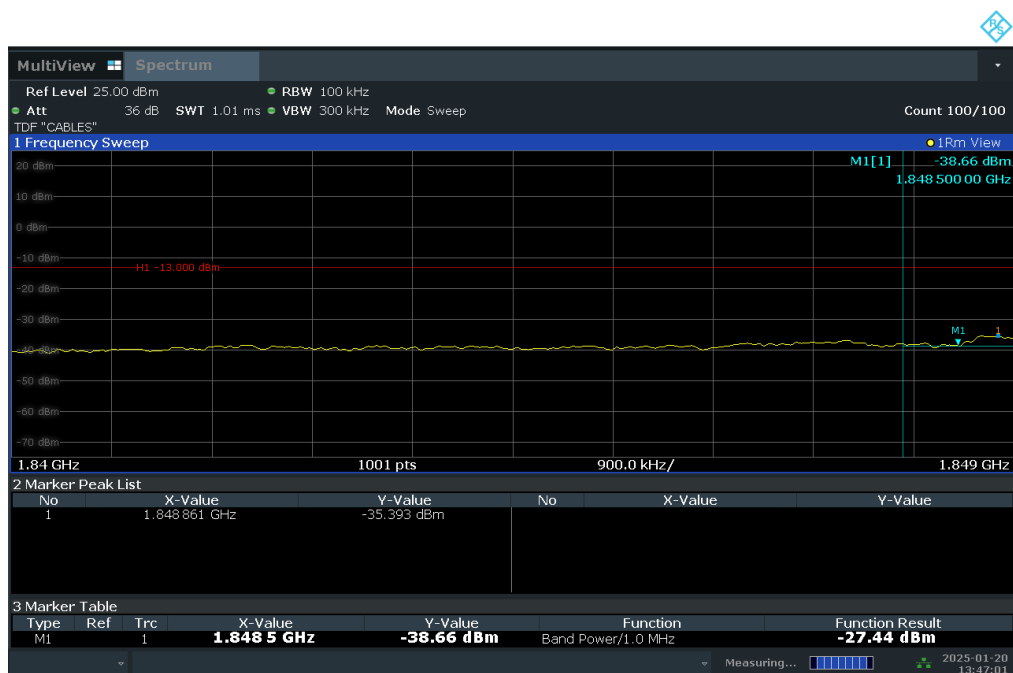



Plot 7-87. Lower Band Edge Plot (LTE Band 2 – 15MHz QPSK – Full RB Configuration)

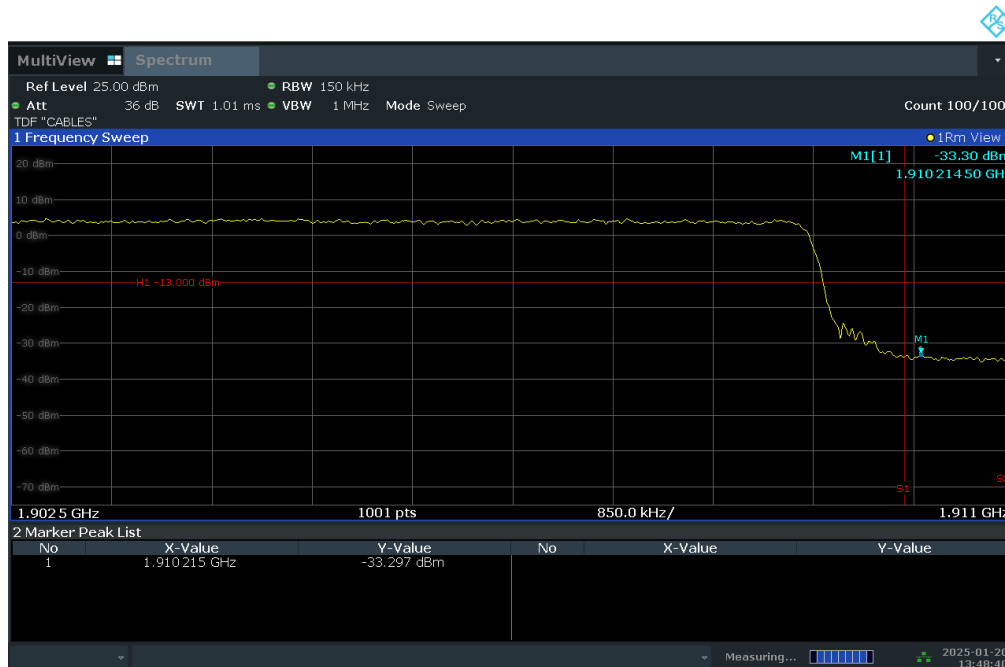


Plot 7-88. Extended Lower Band Edge Plot (LTE Band 2 – 15MHz QPSK – Full RB Configuration)

FCC ID: BCG-A3281	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270029-02.BCG	Test Dates: 01/17/2025 - 07/14/2025	EUT Type: Watch	Page 63 of 130

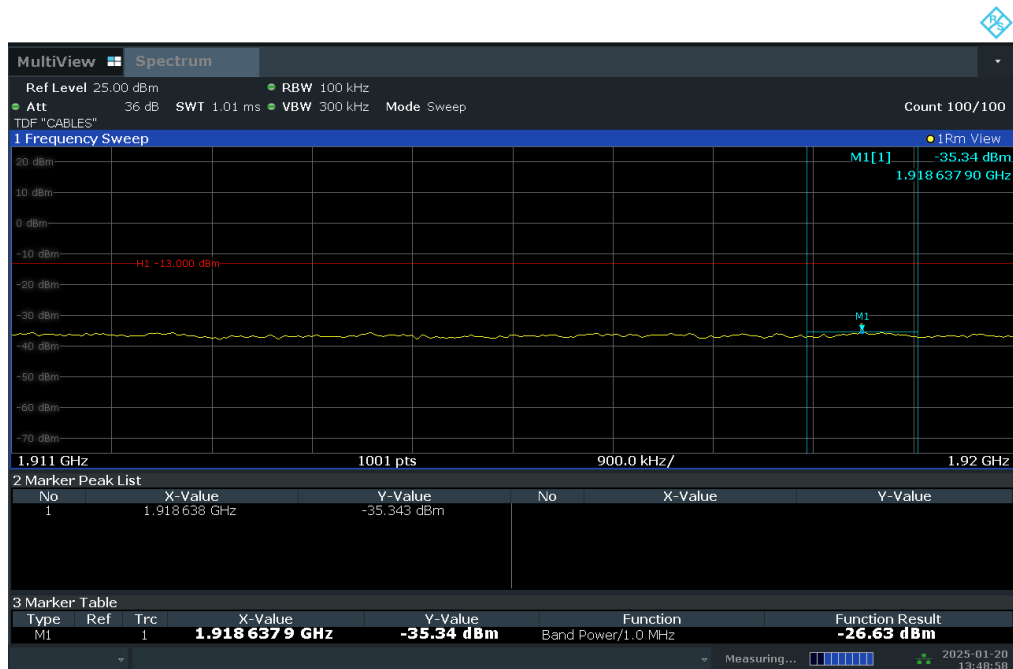
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01:48:41 PM 01/20/2025

Plot 7-89. Upper Band Edge Plot (LTE Band 2 – 15MHz QPSK – Full RB Configuration)



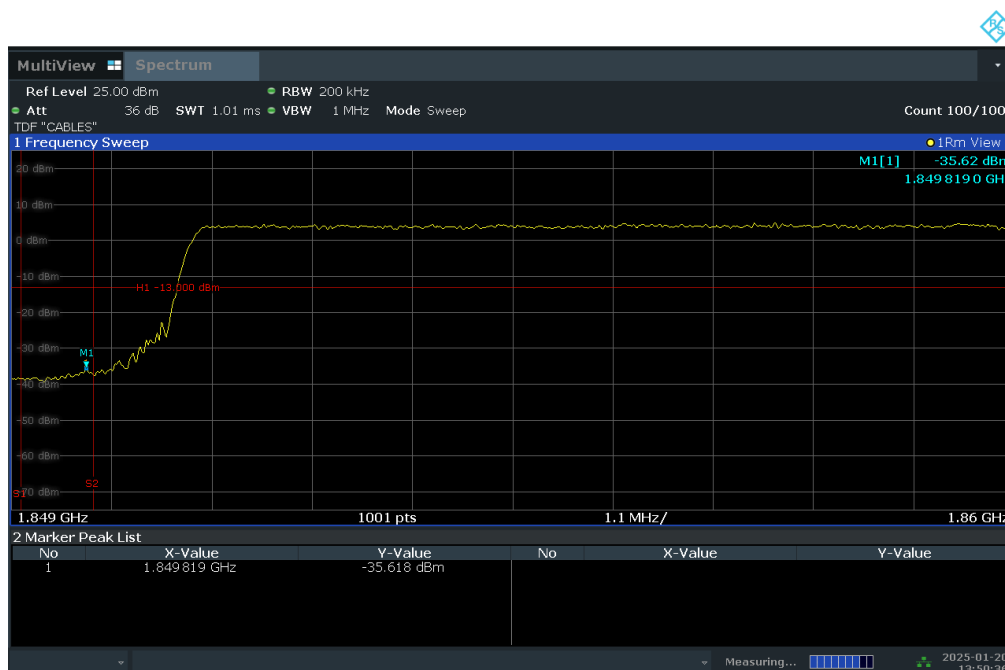
01:48:59 PM 01/20/2025

Plot 7-90. Extended Upper Band Edge Plot (LTE Band 2 – 15MHz QPSK – Full RB Configuration)

FCC ID: BCG-A3281	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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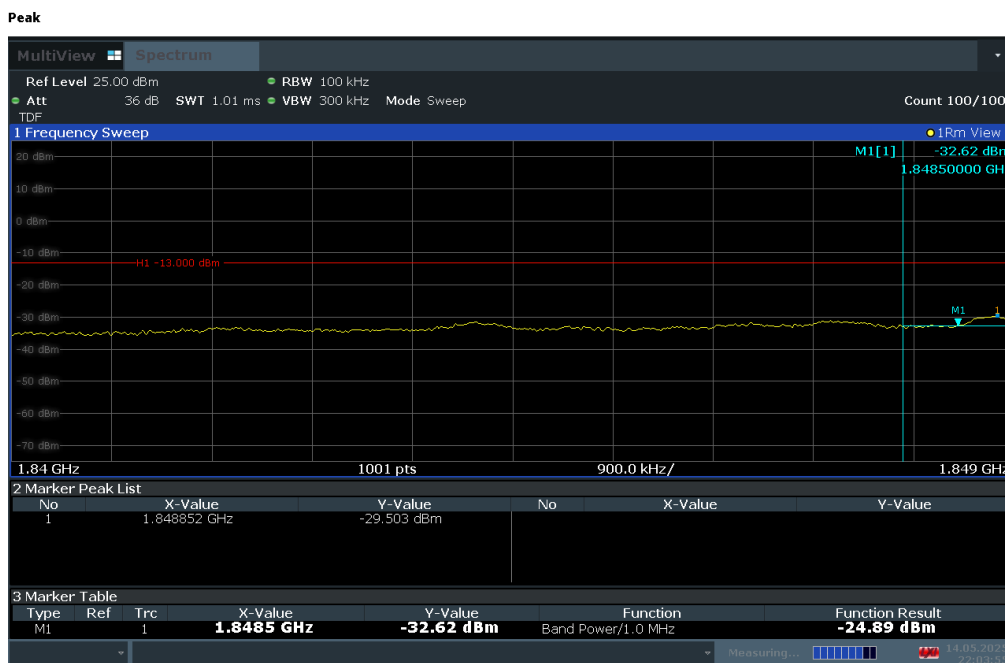
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01:50:37 PM 01/20/2025

Plot 7-91. Lower Band Edge Plot (LTE Band 2 – 20MHz QPSK – Full RB Configuration)



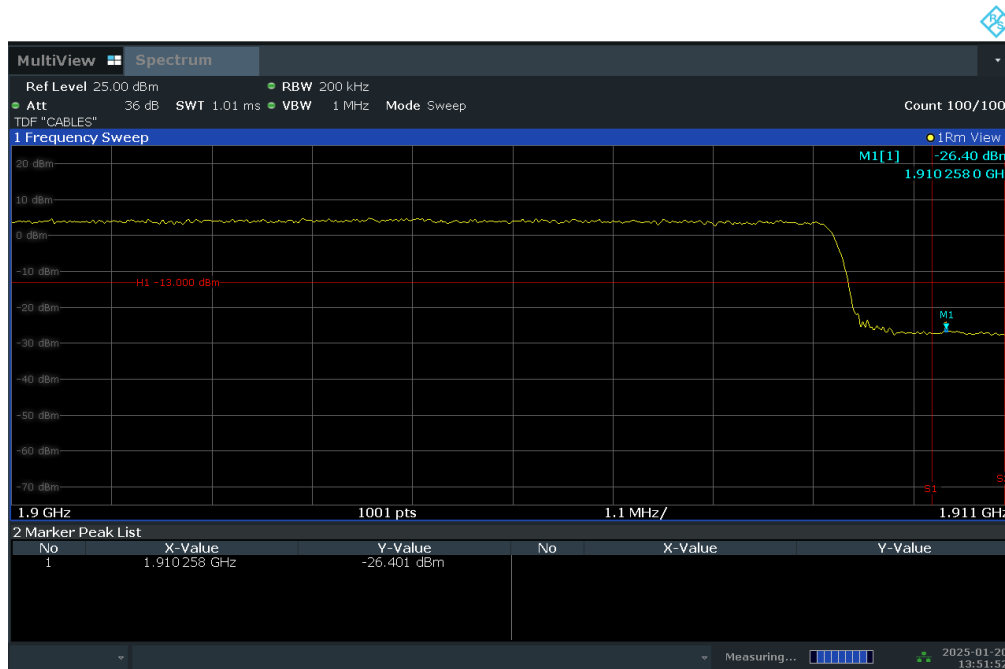
22:03:56 14.05.2025

Plot 7-92. Extended Lower Band Edge Plot (LTE Band 2 – 20MHz QPSK – Full RB Configuration)

FCC ID: BCG-A3281	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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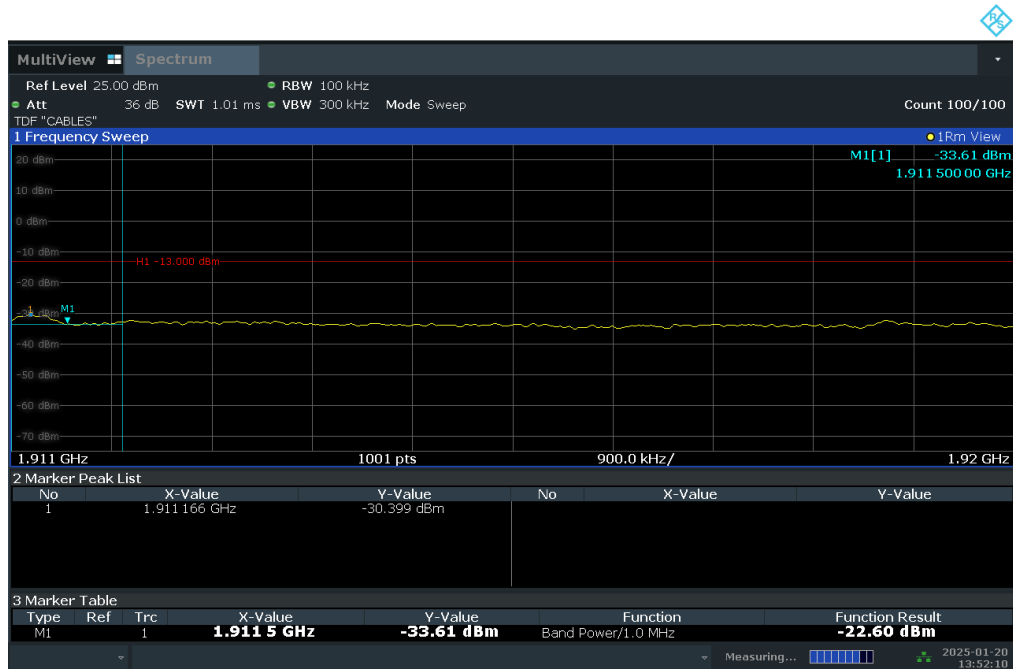
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01:51:53 PM 01/20/2025

Plot 7-93. Upper Band Edge Plot (LTE Band 2 – 20MHz QPSK – Full RB Configuration)



01:52:11 PM 01/20/2025

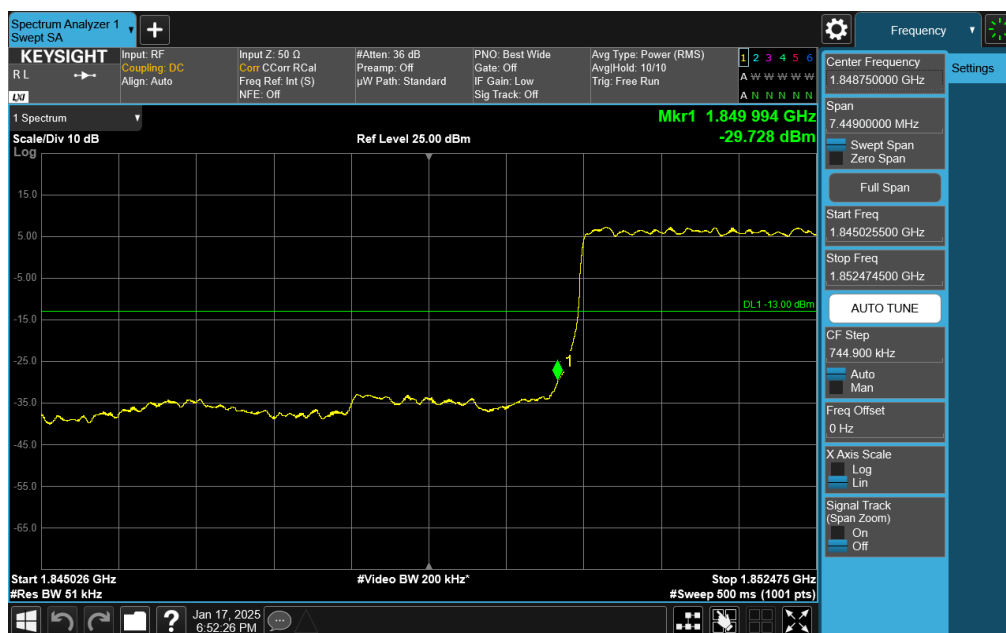
Plot 7-94. Extended Upper Band Edge Plot (LTE Band 2 – 20MHz QPSK – Full RB Configuration)

FCC ID: BCG-A3281	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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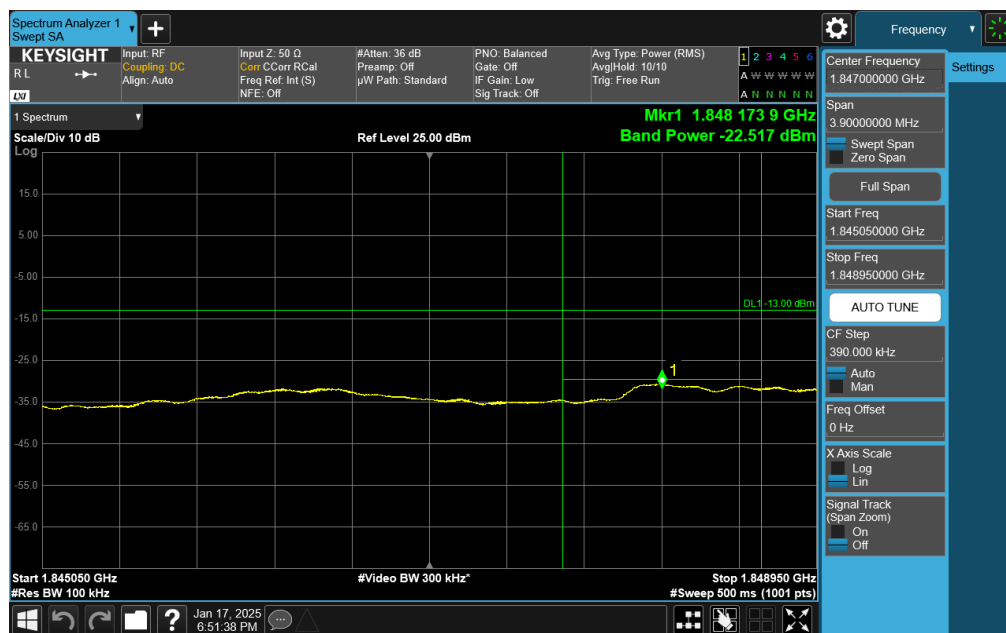
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NR Band n25



Plot 7-95. Lower Band Edge Plot (NR Band n25 – 5MHz DFT-s-OFDM $\pi/2$ BPSK – Full RB Configuration)

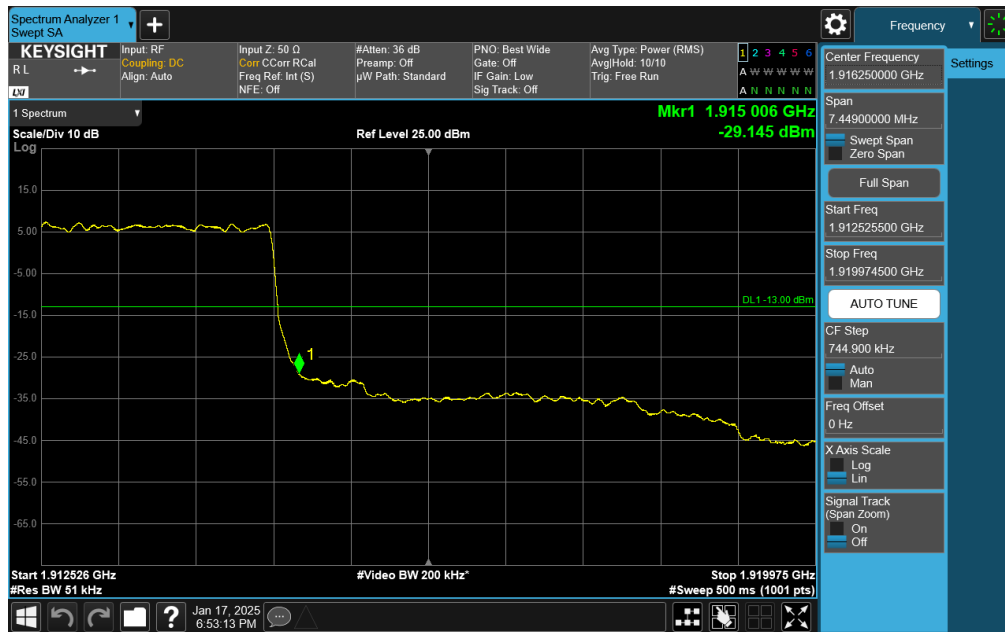


Plot 7-96. Extended Lower Band Edge Plot (NR Band n25 – 5MHz DFT-s-OFDM $\pi/2$ BPSK – Full RB Configuration)

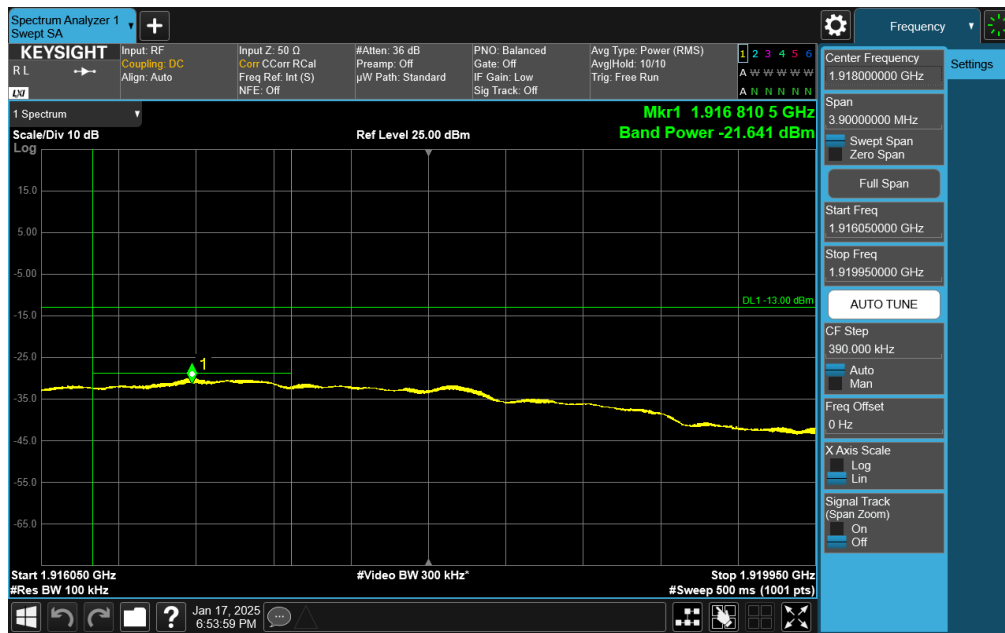
FCC ID: BCG-A3281	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-97. Upper Band Edge Plot (NR Band n25 – 5MHz DFT-s-OFDM $\pi/2$ BPSK – Full RB Configuration)

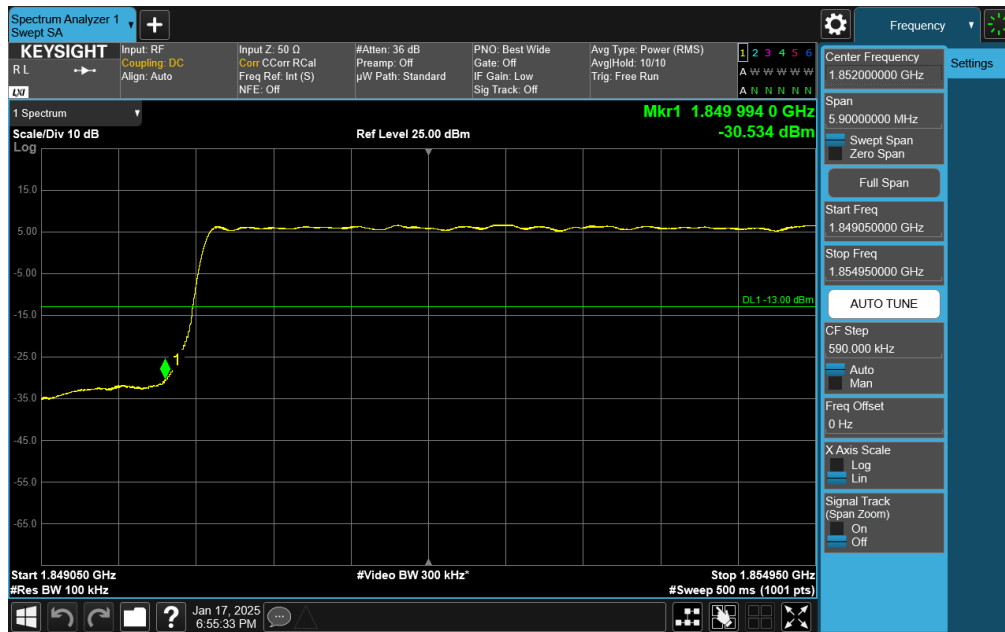


Plot 7-98. Extended Upper Band Edge Plot (NR Band n25 – 5MHz DFT-s-OFDM $\pi/2$ BPSK – Full RB Configuration)

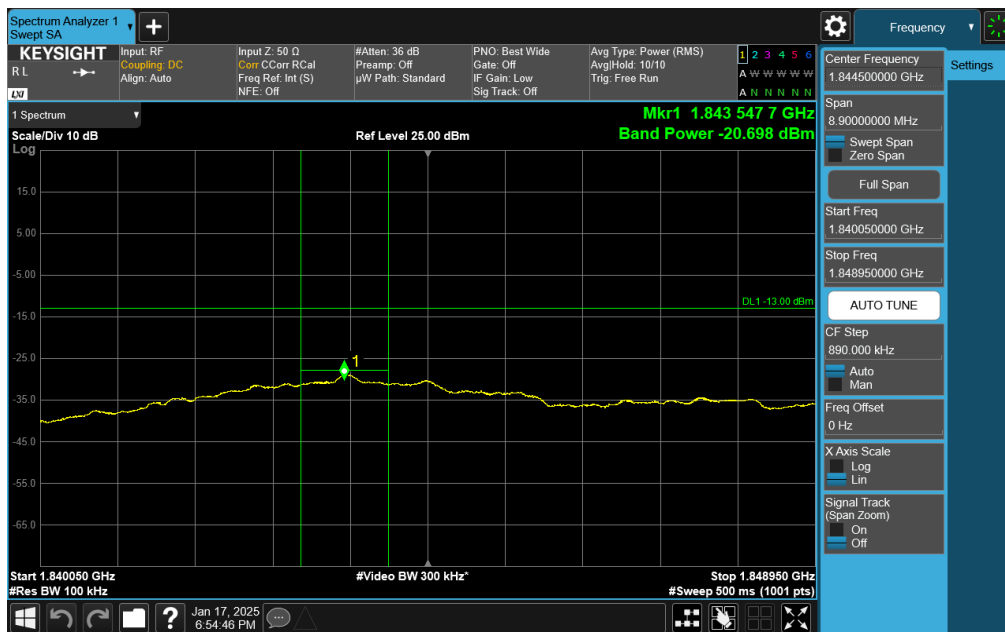
FCC ID: BCG-A3281	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-99. Lower Band Edge Plot (NR Band n25 – 10MHz DFT-s-OFDM $\pi/2$ BPSK – Full RB Configuration)

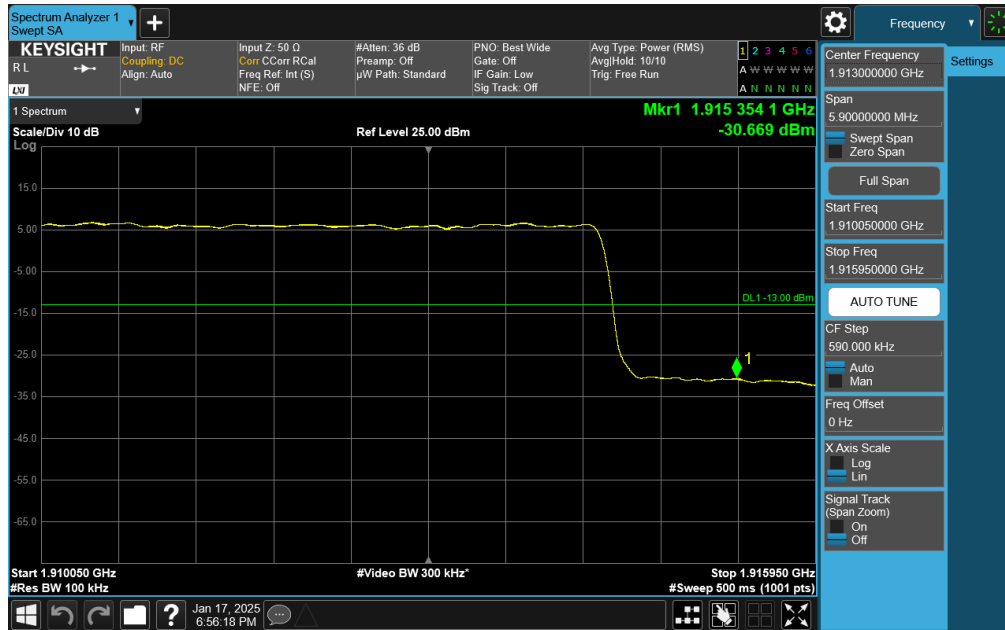


Plot 7-100. Extended Lower Band Edge Plot (NR Band n25 – 10MHz DFT-s-OFDM $\pi/2$ BPSK – Full RB Configuration)

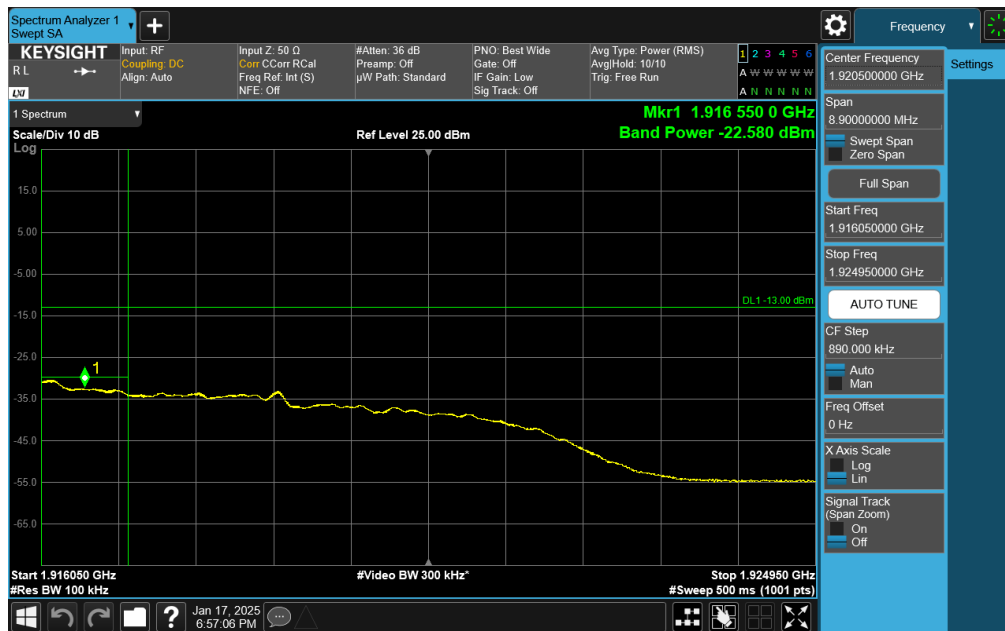
FCC ID: BCG-A3281	element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
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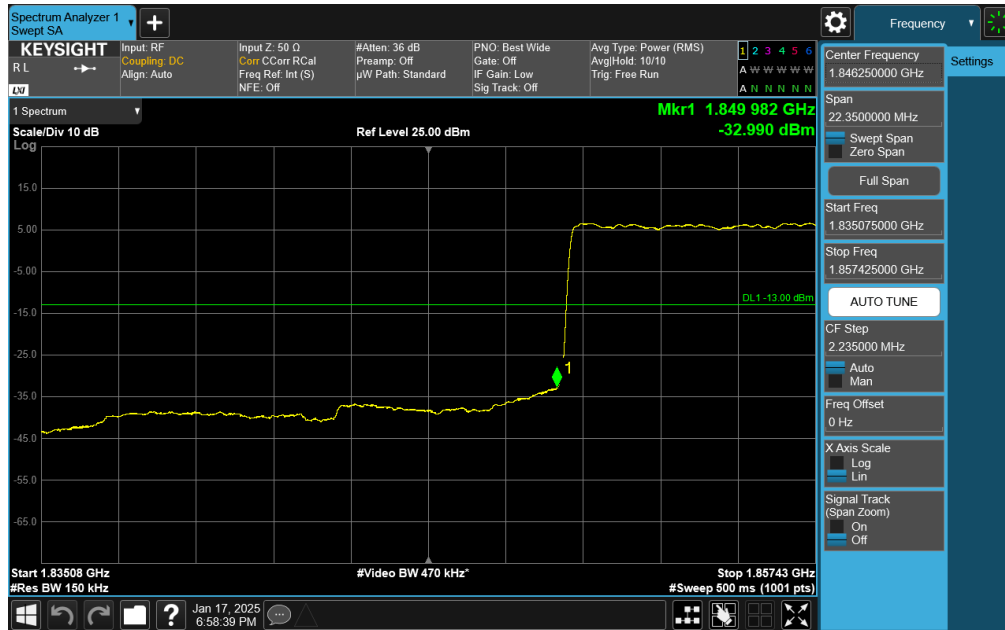
Plot 7-101. Upper Band Edge Plot (NR Band n25 – 10MHz DFT-s-OFDM $\pi/2$ BPSK – Full RB Configuration)



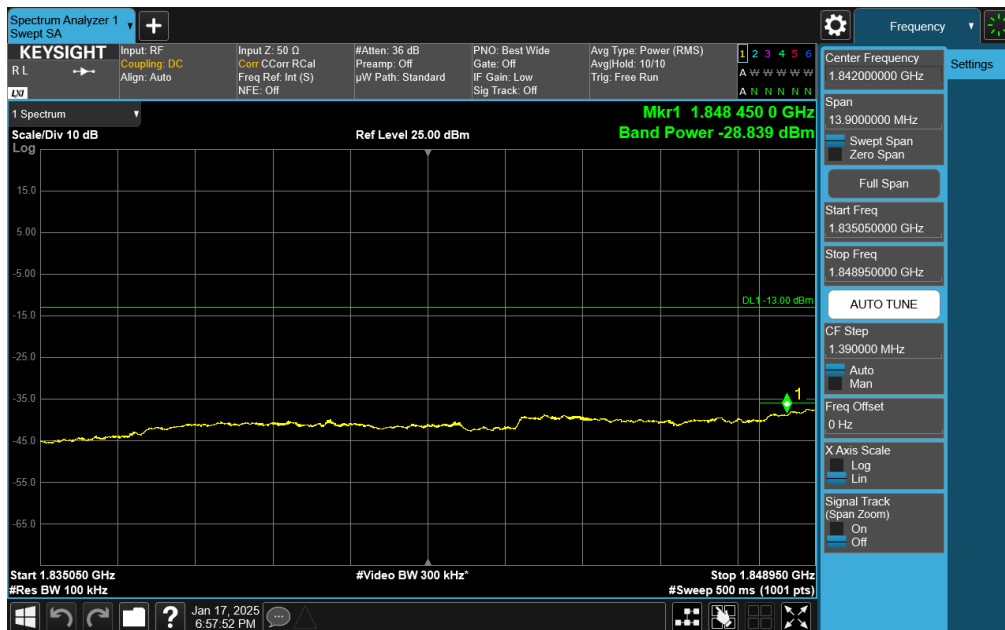
Plot 7-102. Extended Upper Band Edge Plot (NR Band n25 – 10MHz DFT-s-OFDM $\pi/2$ BPSK – Full RB Configuration)

FCC ID: BCG-A3281	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-103. Extended Lower Band Edge Plot (NR Band n25 – 15MHz DFT-s-OFDM $\pi/2$ BPSK – Full RB Configuration)

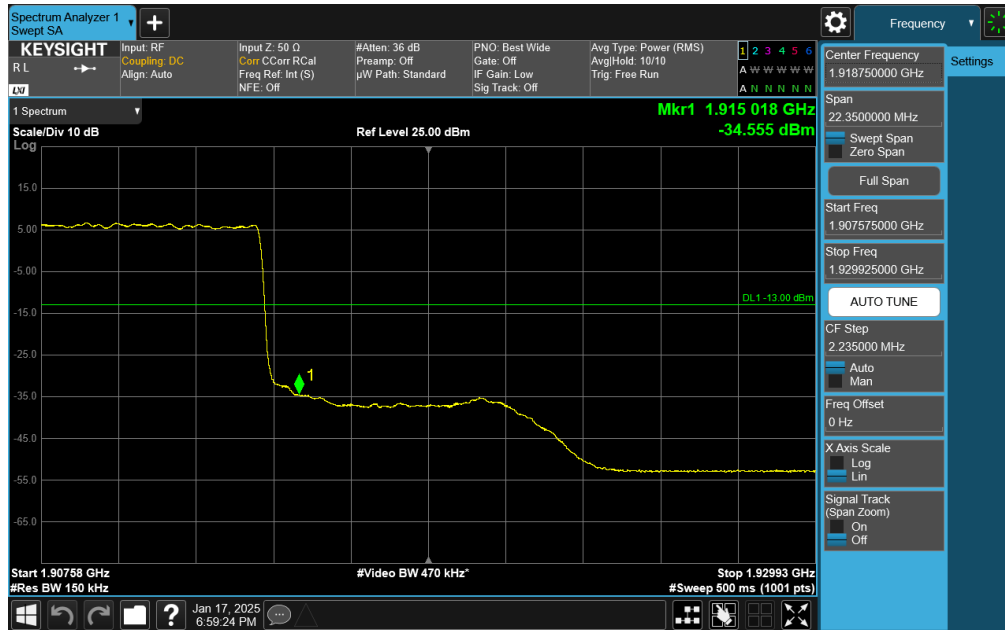


Plot 7-104. Lower Band Edge Plot (NR Band n25 – 15MHz DFT-s-OFDM $\pi/2$ BPSK – Full RB Configuration)

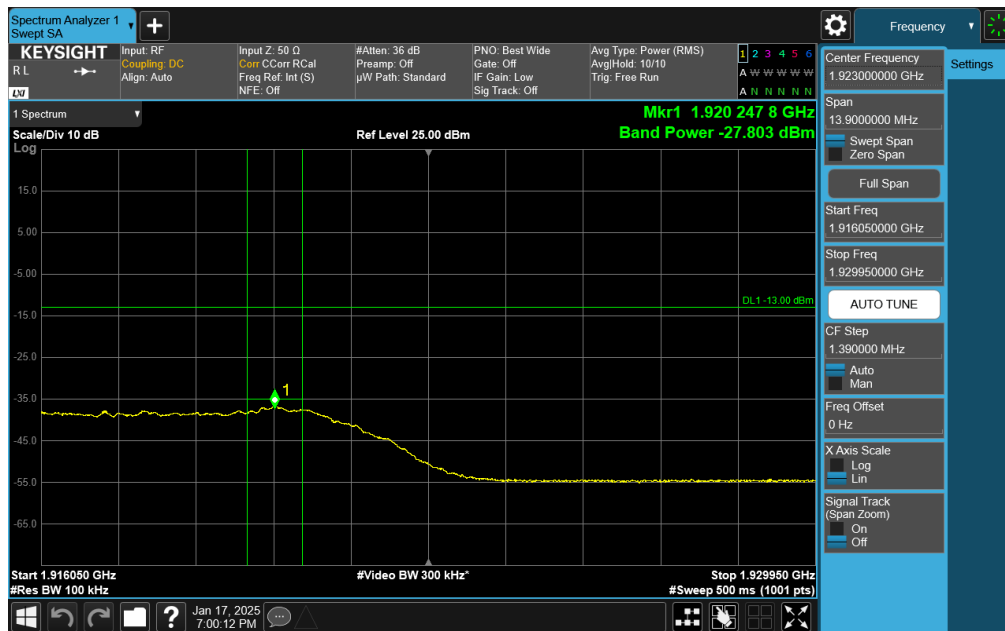
FCC ID: BCG-A3281	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-105. Upper Band Edge Plot (NR Band n25 – 15MHz DFT-s-OFDM $\pi/2$ BPSK – Full RB Configuration)

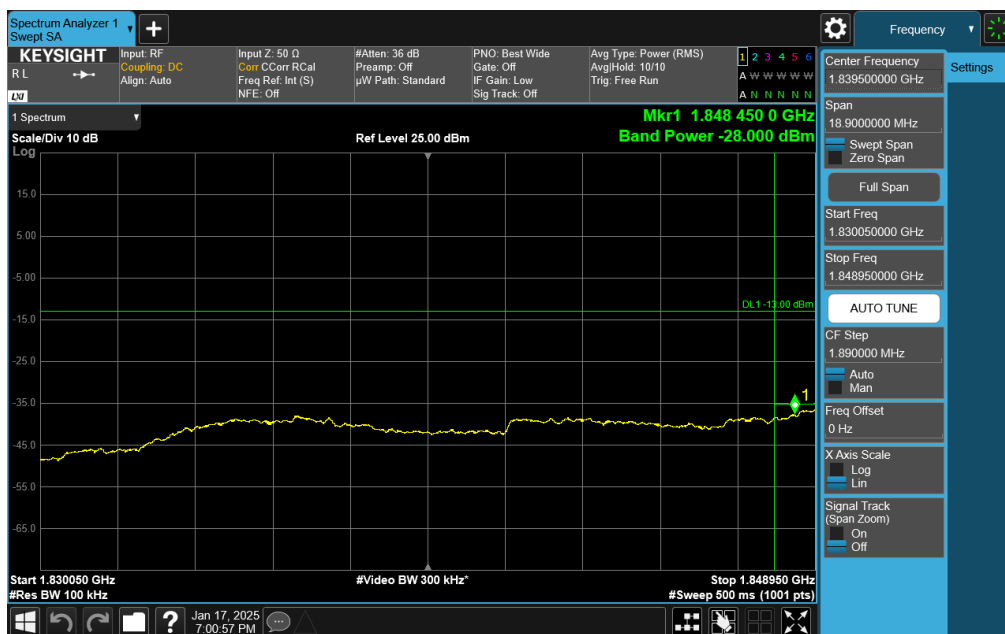
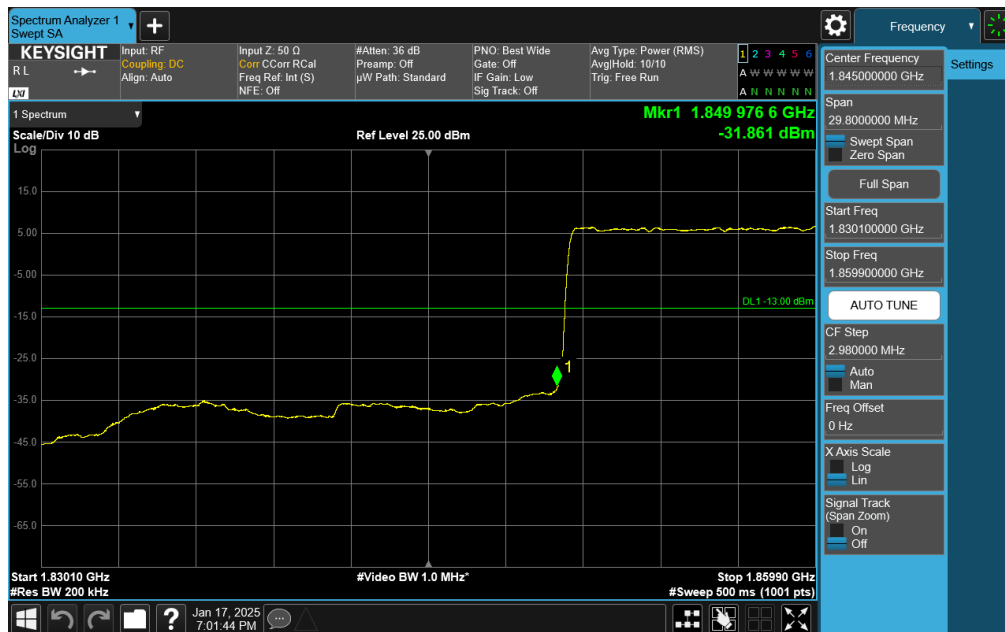


Plot 7-106. Extended Upper Band Edge Plot (NR Band n25 – 15MHz DFT-s-OFDM $\pi/2$ BPSK – Full RB Configuration)

FCC ID: BCG-A3281	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
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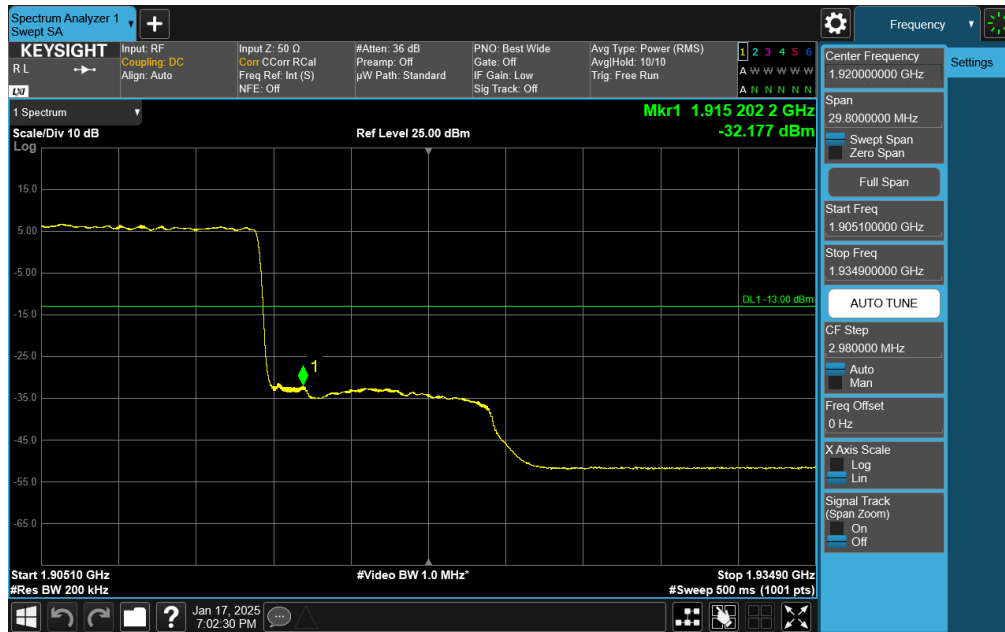
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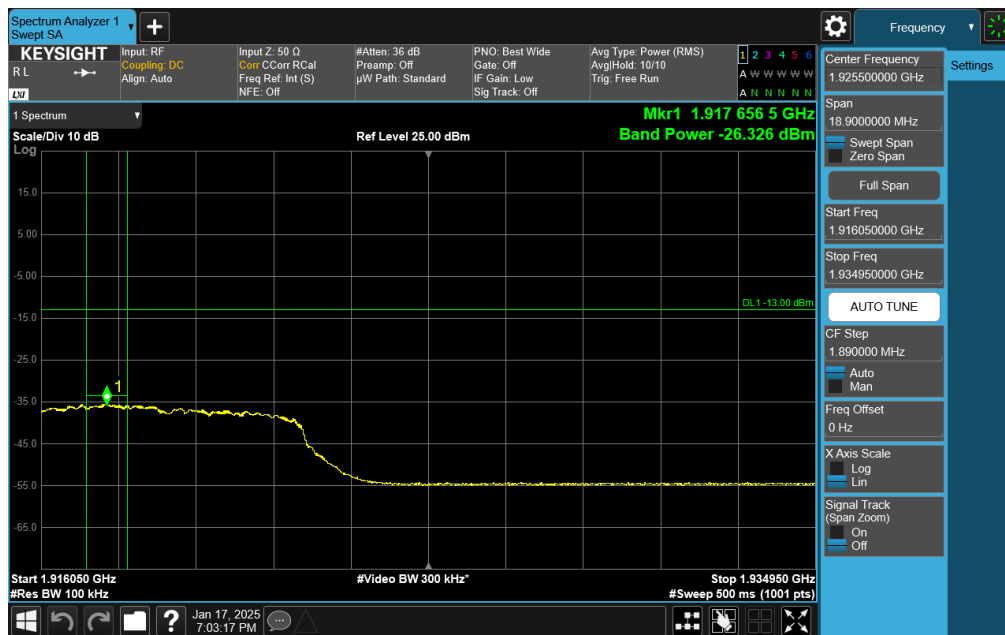
FCC ID: BCG-A3281	element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
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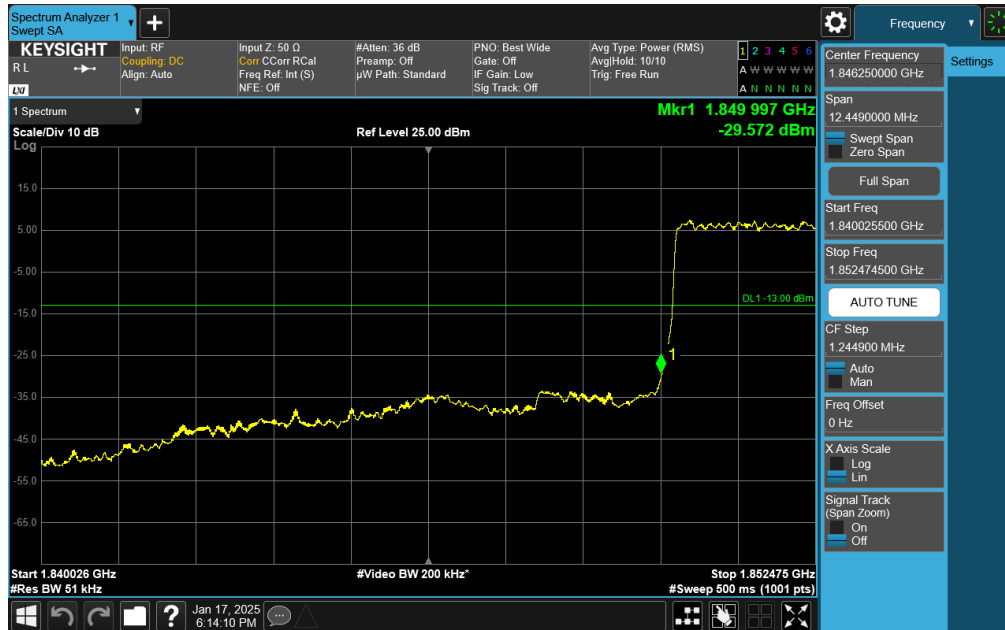
Plot 7-109. Upper Band Edge Plot (NR Band n25 – 20MHz DFT-s-OFDM $\pi/2$ BPSK – Full RB Configuration)



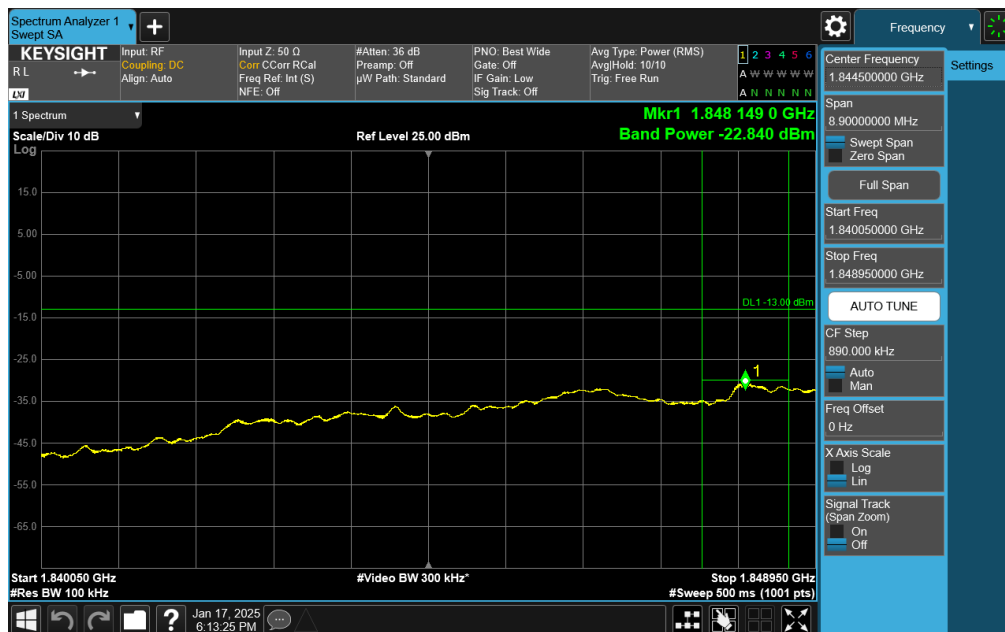
Plot 7-110. Extended Upper Band Edge Plot (NR Band n25 – 20MHz DFT-s-OFDM $\pi/2$ BPSK – Full RB Configuration)

FCC ID: BCG-A3281	element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
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NR Band n2



Plot 7-111. Lower Band Edge Plot (NR Band n2 – 5MHz DFT-s-OFDM $\pi/2$ BPSK – Full RB Configuration)



Plot 7-112. Extended Lower Band Edge Plot (NR Band n2 – 5MHz DFT-s-OFDM $\pi/2$ BPSK – Full RB Configuration)

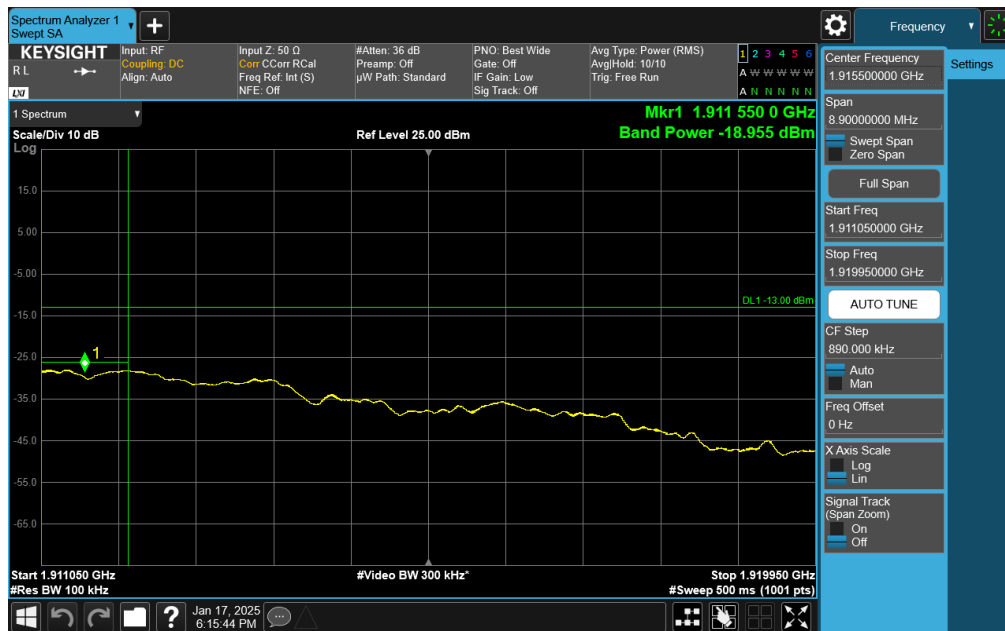
FCC ID: BCG-A3281	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-113. Upper Band Edge Plot (NR Band n2 – 5MHz DFT-s-OFDM $\pi/2$ BPSK – Full RB Configuration)

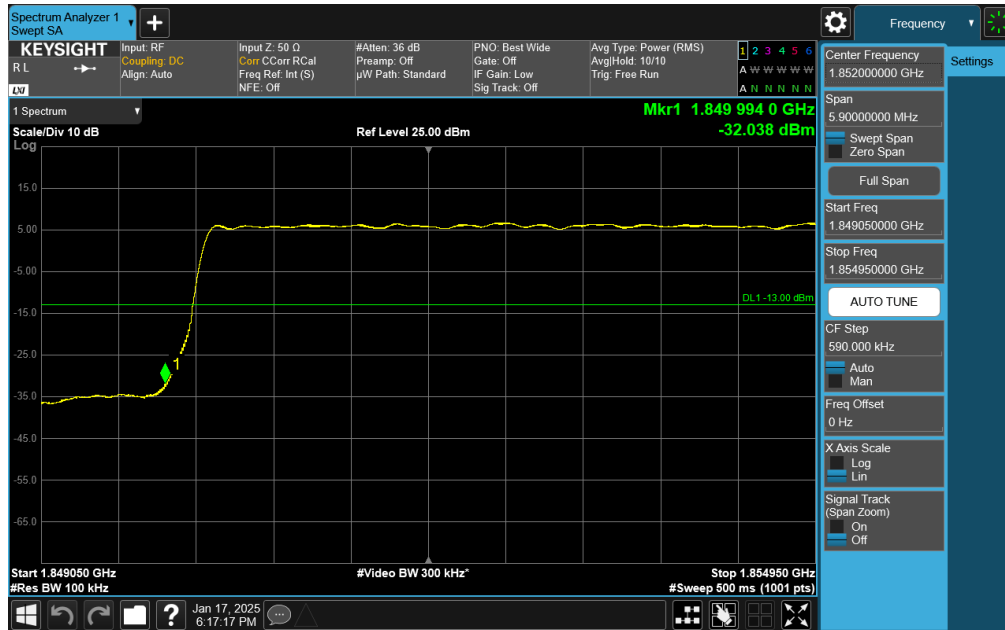


Plot 7-114. Extended Upper Band Edge Plot (NR Band n2 – 5MHz DFT-s-OFDM $\pi/2$ BPSK – Full RB Configuration)

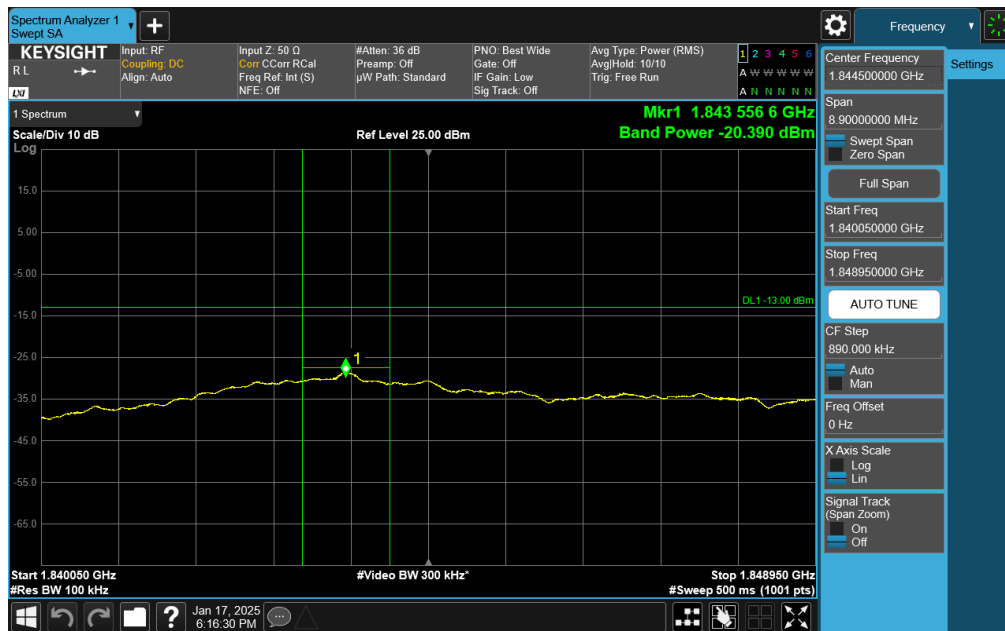
FCC ID: BCG-A3281	element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-115. Lower Band Edge Plot (NR Band n2 – 10MHz DFT-s-OFDM $\pi/2$ BPSK – Full RB Configuration)

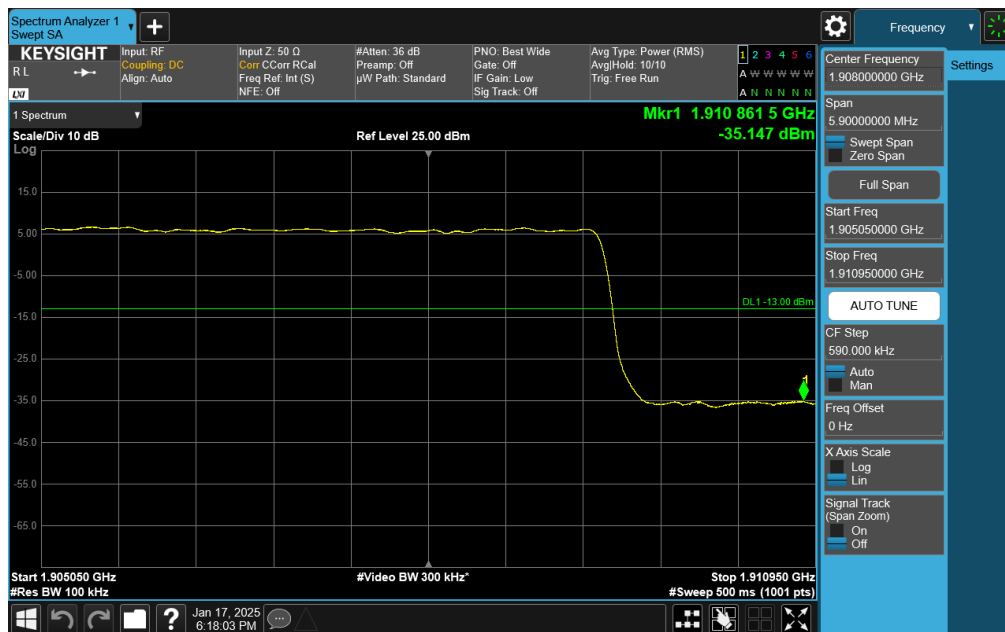


Plot 7-116. Extended Lower Band Edge Plot (NR Band n2 – 10MHz DFT-s-OFDM $\pi/2$ BPSK – Full RB Configuration)

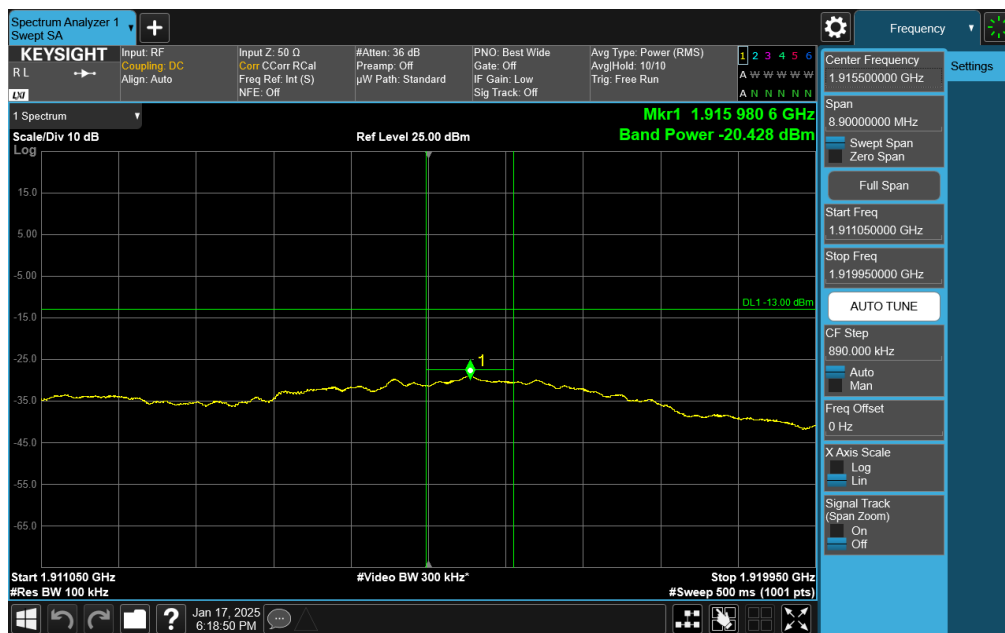
FCC ID: BCG-A3281	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-117. Upper Band Edge Plot (NR Band n2 – 10MHz DFT-s-OFDM $\pi/2$ BPSK – Full RB Configuration)

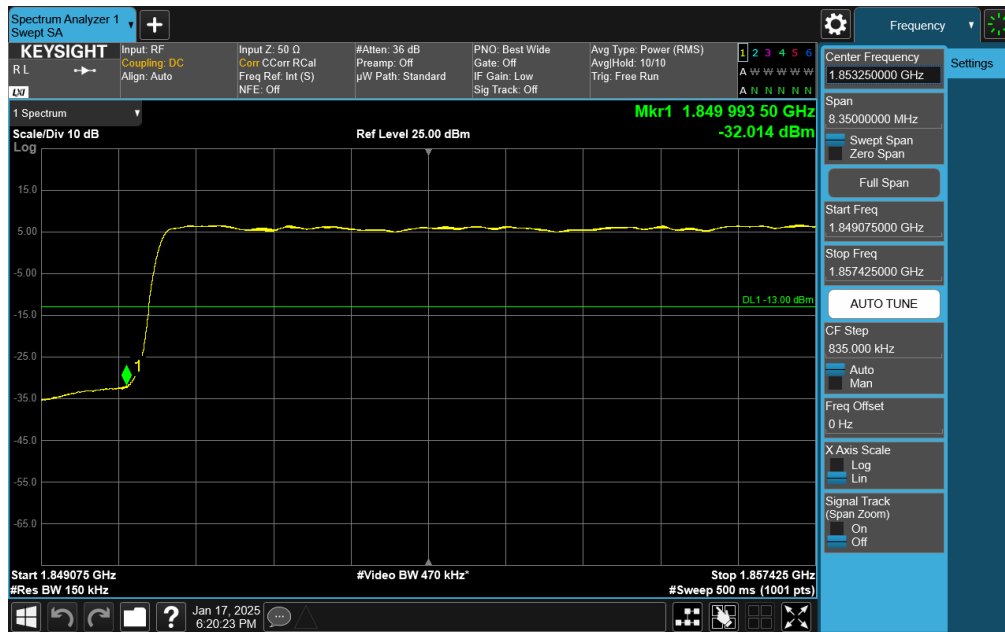


Plot 7-118. Extended Upper Band Edge Plot (NR Band n2 – 10MHz DFT-s-OFDM $\pi/2$ BPSK – Full RB Configuration)

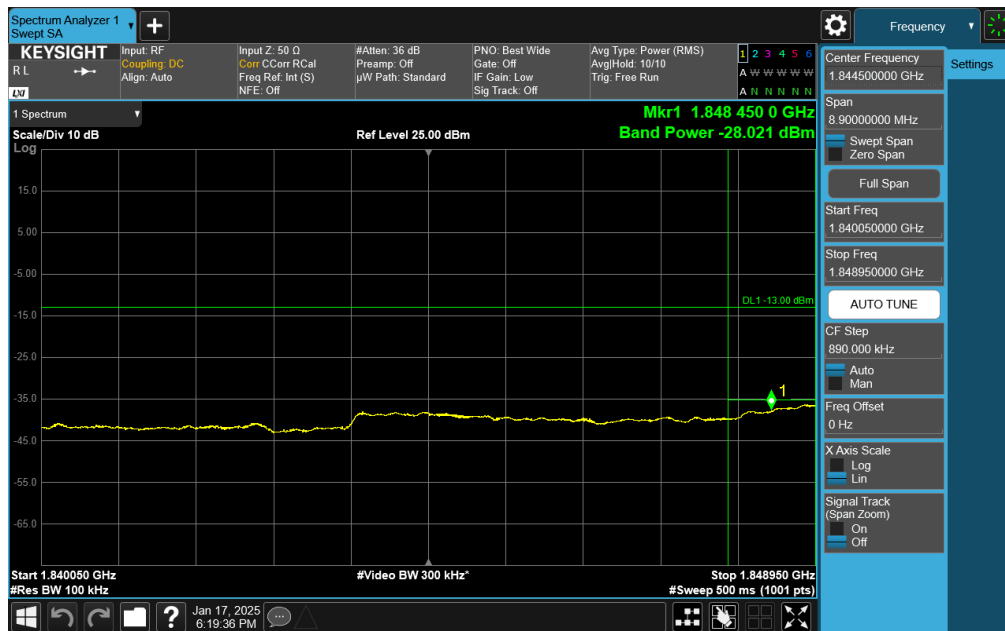
FCC ID: BCG-A3281	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-119. Lower Band Edge Plot (NR Band n2 – 15MHz DFT-s-OFDM $\pi/2$ BPSK – Full RB Configuration)

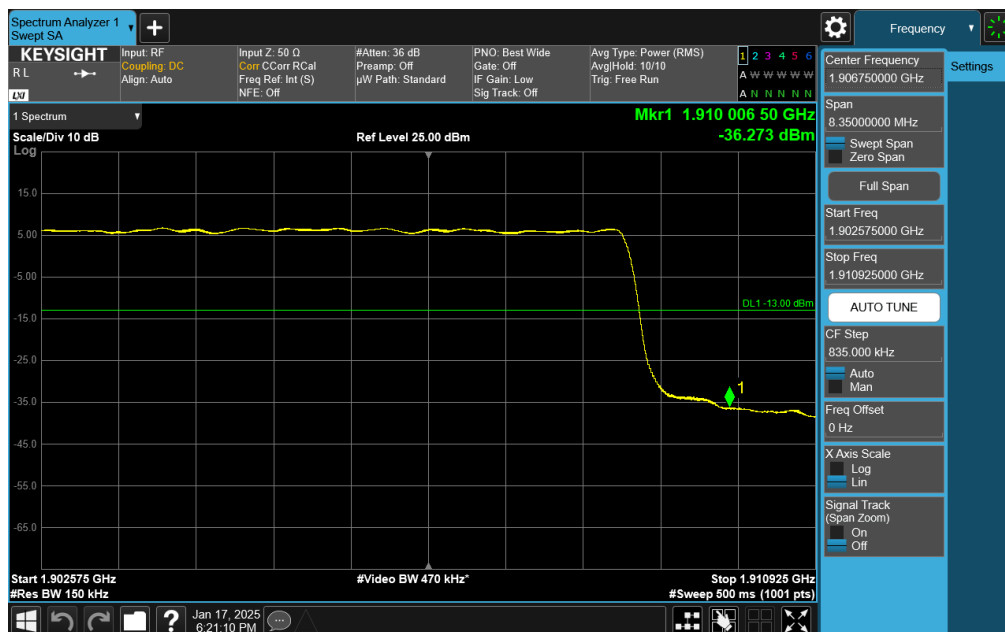


Plot 7-120. Extended Lower Band Edge Plot (NR Band n2 – 15MHz DFT-s-OFDM $\pi/2$ BPSK – Full RB Configuration)

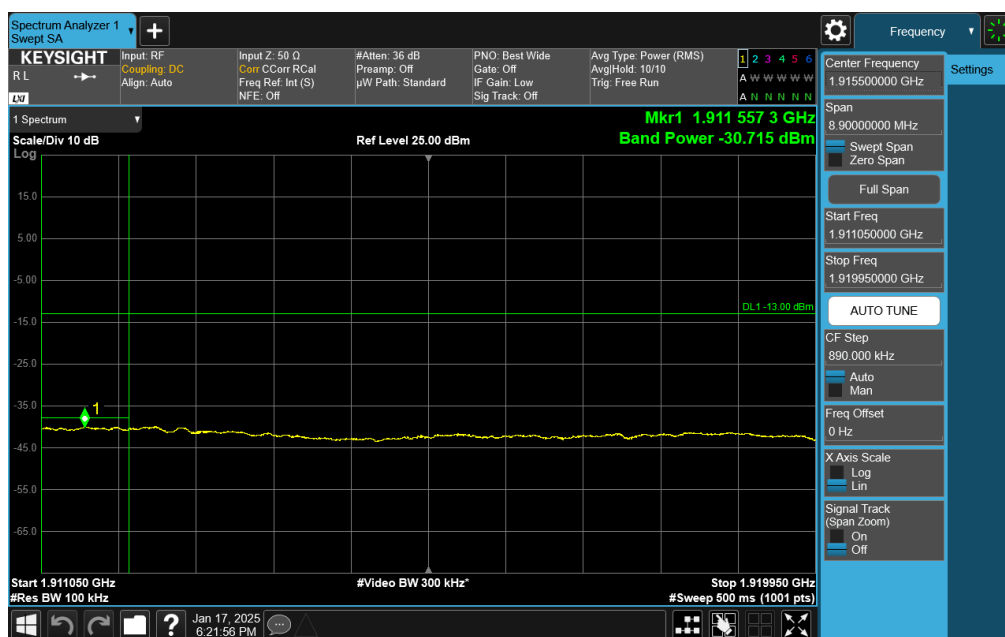
FCC ID: BCG-A3281	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-121. Upper Band Edge Plot (NR Band n2 – 15MHz DFT-s-OFDM $\pi/2$ BPSK – Full RB Configuration)

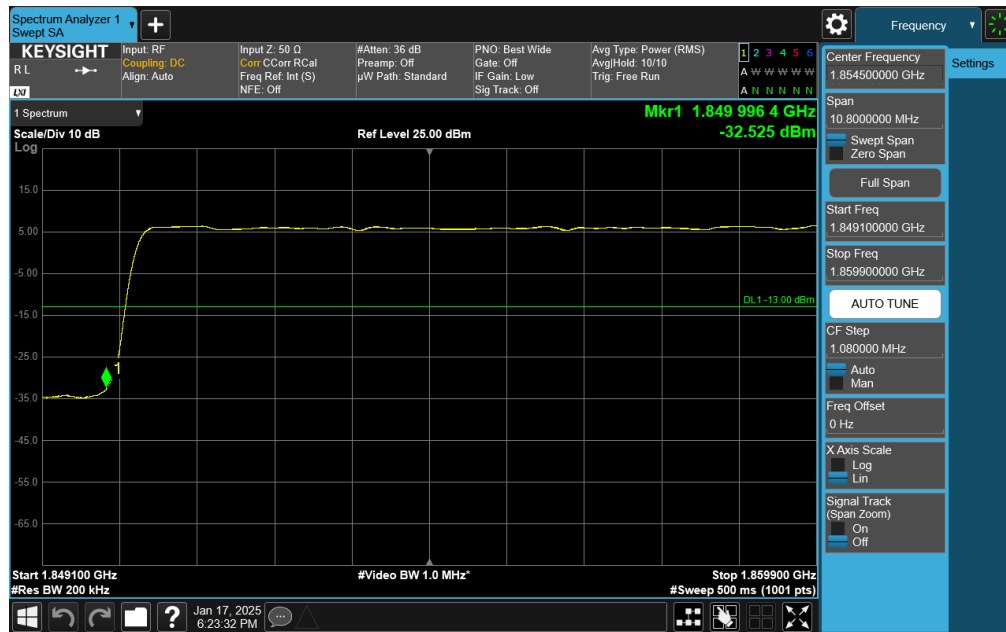


Plot 7-122. Extended Upper Band Edge Plot (NR Band n2 – 15MHz DFT-s-OFDM $\pi/2$ BPSK – Full RB Configuration)

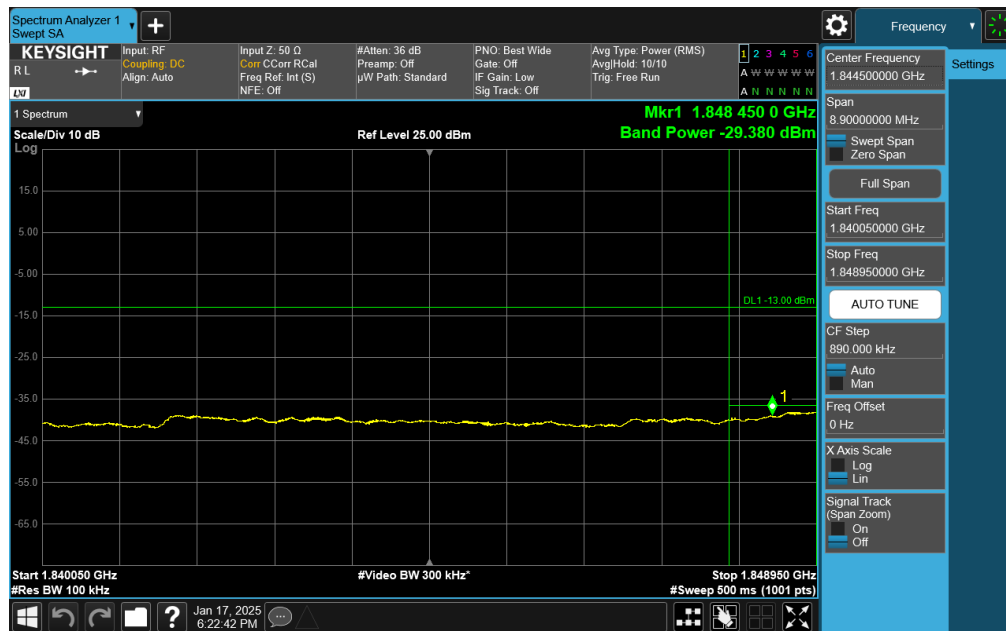
FCC ID: BCG-A3281	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-123. Lower Band Edge Plot (NR Band n2 – 20MHz DFT-s-OFDM $\pi/2$ BPSK – Full RB Configuration)

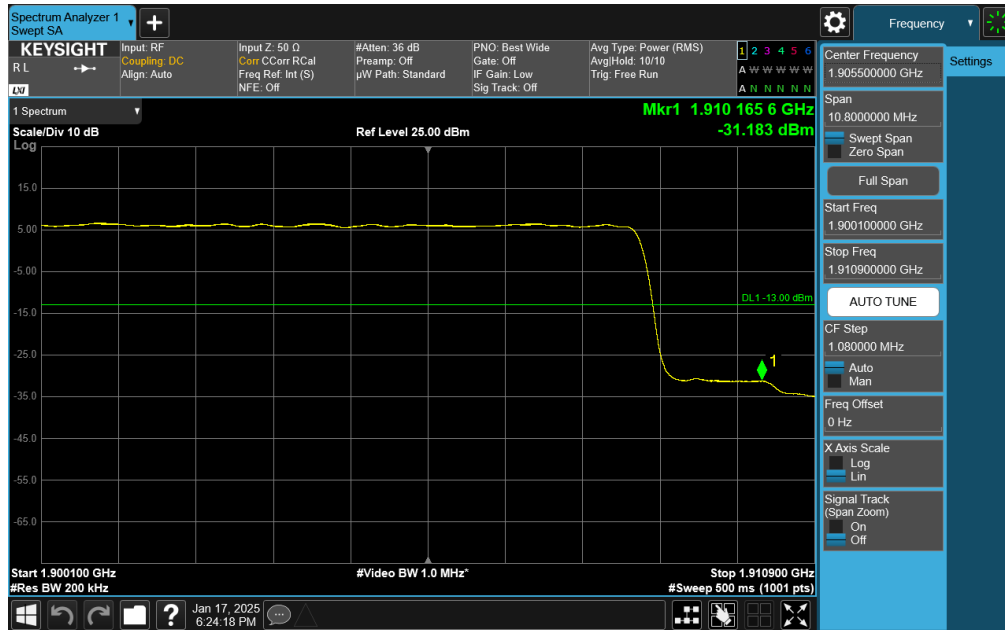


Plot 7-124. Extended Lower Band Edge Plot (NR Band n2 – 20MHz DFT-s-OFDM $\pi/2$ BPSK – Full RB Configuration)

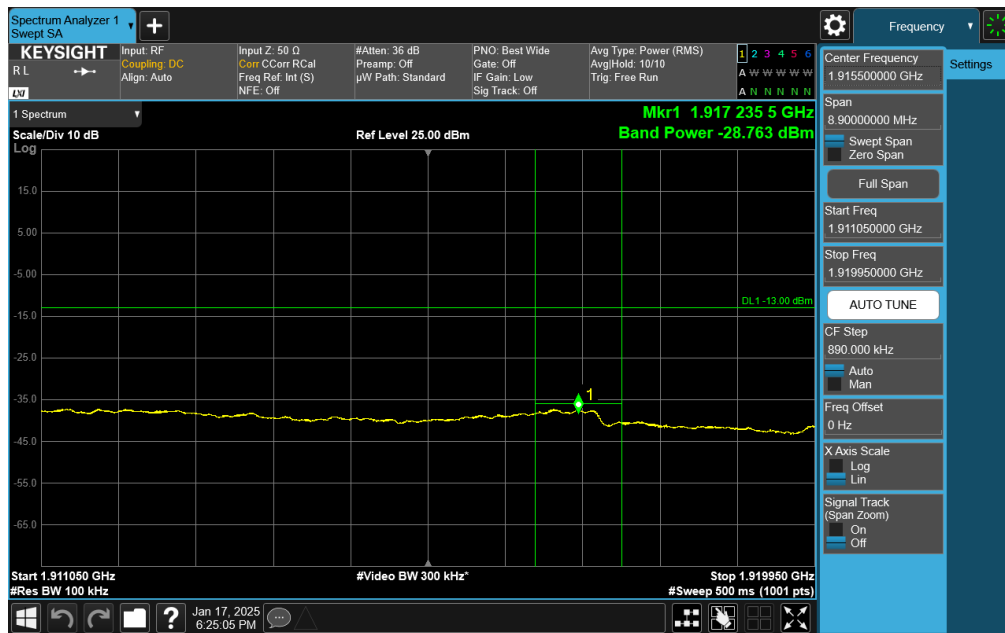
FCC ID: BCG-A3281	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-125. Upper Band Edge Plot (NR Band n2 – 20MHz DFT-s-OFDM $\pi/2$ BPSK – Full RB Configuration)



Plot 7-126. Extended Upper Band Edge Plot (NR Band n2 – 20MHz DFT-s-OFDM $\pi/2$ BPSK – Full RB Configuration)

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7.5 Peak-Average Ratio

§24.232(d)

Test Overview and Limit

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 equipment shall not exceed 13 dB for more than 0.1% of the time.

Test Procedure Used

KDB 971168 D01 v03r01 – Section 5.7.1

Test Settings

1. The signal analyzer's CCDF measurement profile is enabled
2. Frequency = carrier center frequency
3. Measurement BW \geq 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

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Test Setup

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

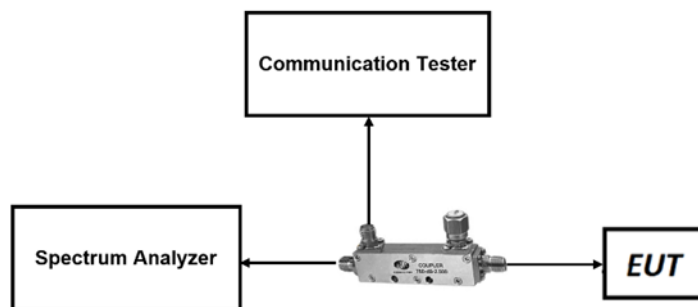


Figure 7-7. LTE Test Instrument & Measurement Setup

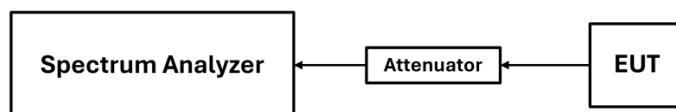



Figure 7-8. FR1 Test Instrument & Measurement Setup

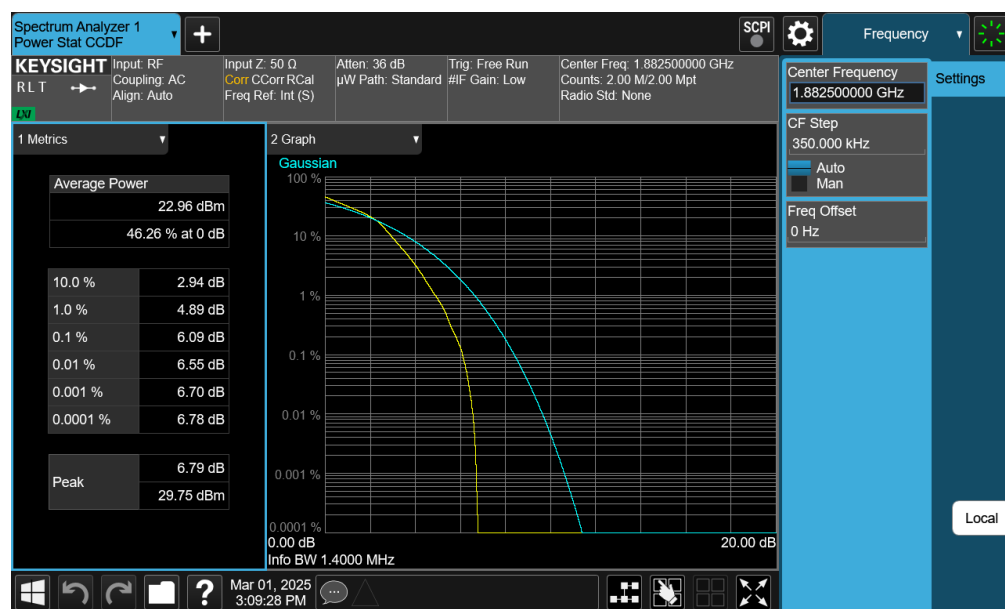
Test Notes


1. 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.

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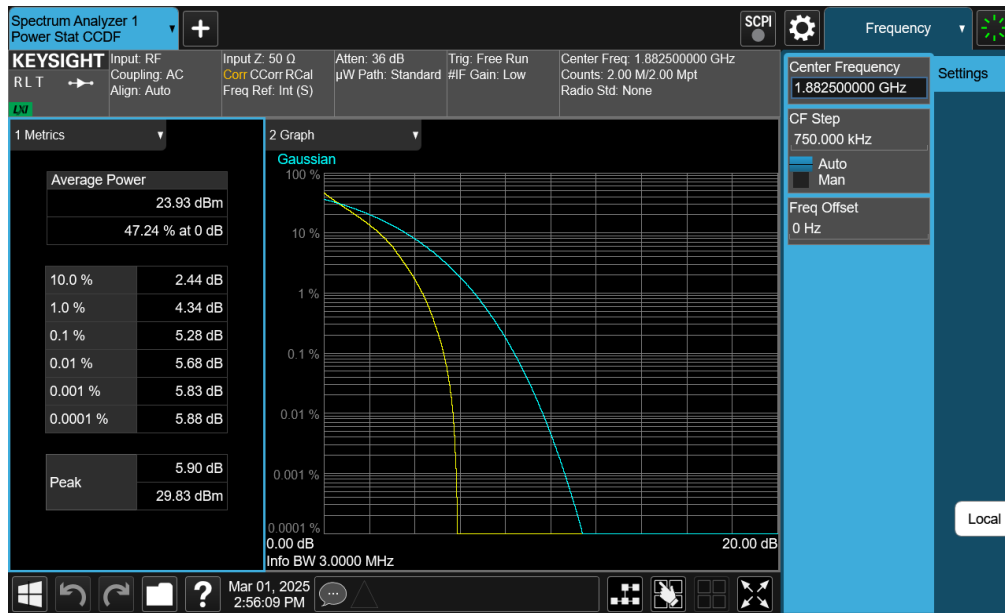
LTE Band 25



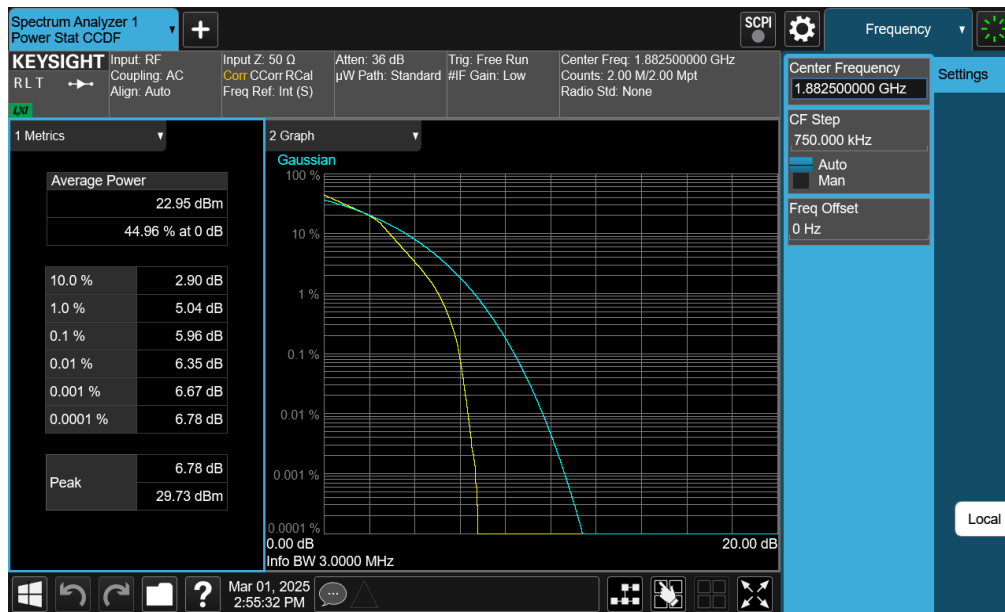
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Plot 7-129. PAR Plot (LTE Band 25 - 3MHz QPSK - Full RB Configuration)

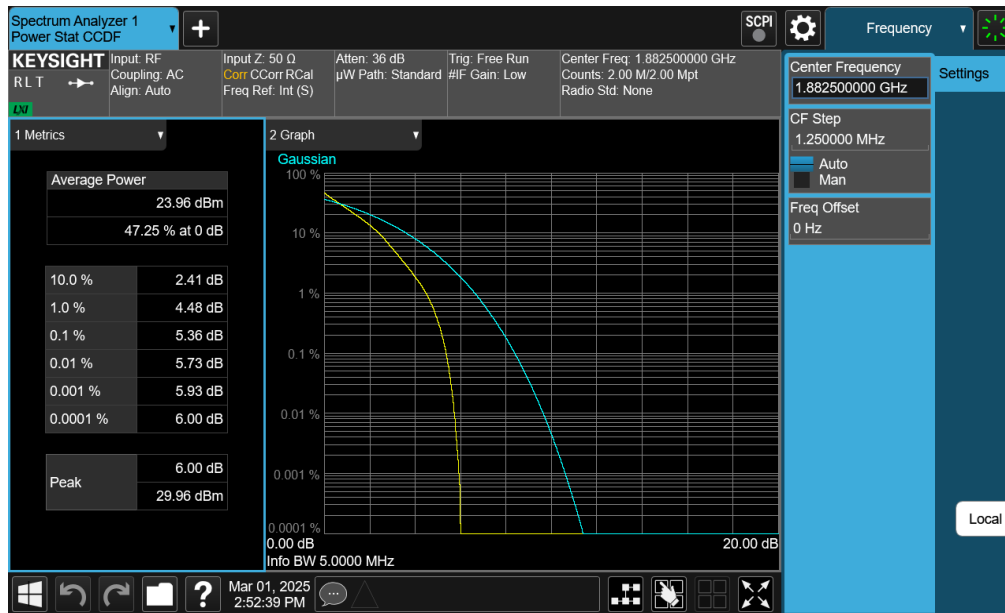


Plot 7-130. PAR Plot (LTE Band 25 - 3MHz 16-QAM - Full RB Configuration)

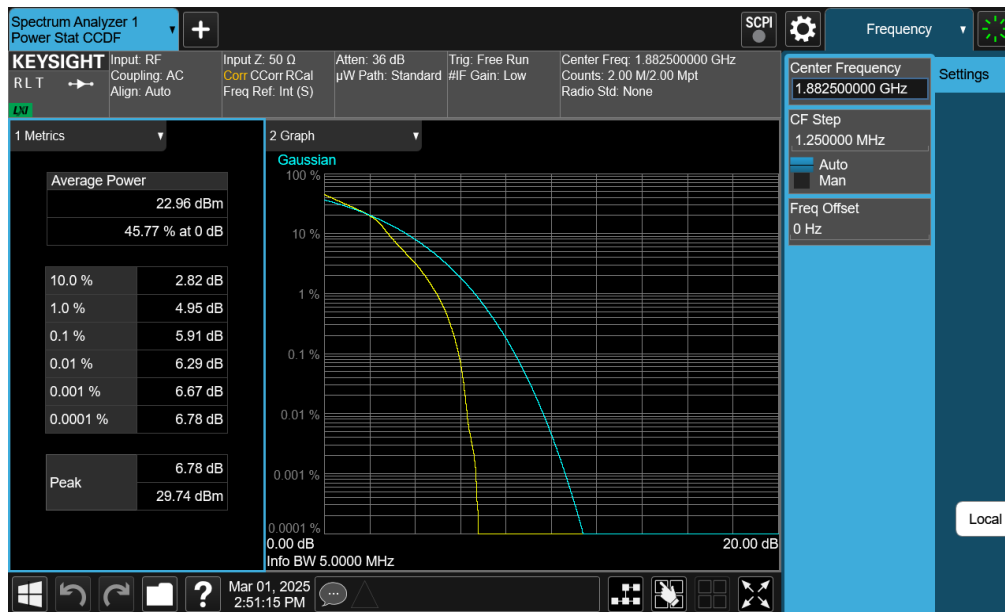
FCC ID: BCG-A3281	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-131. PAR Plot (LTE Band 25 - 5MHz QPSK - Full RB Configuration)

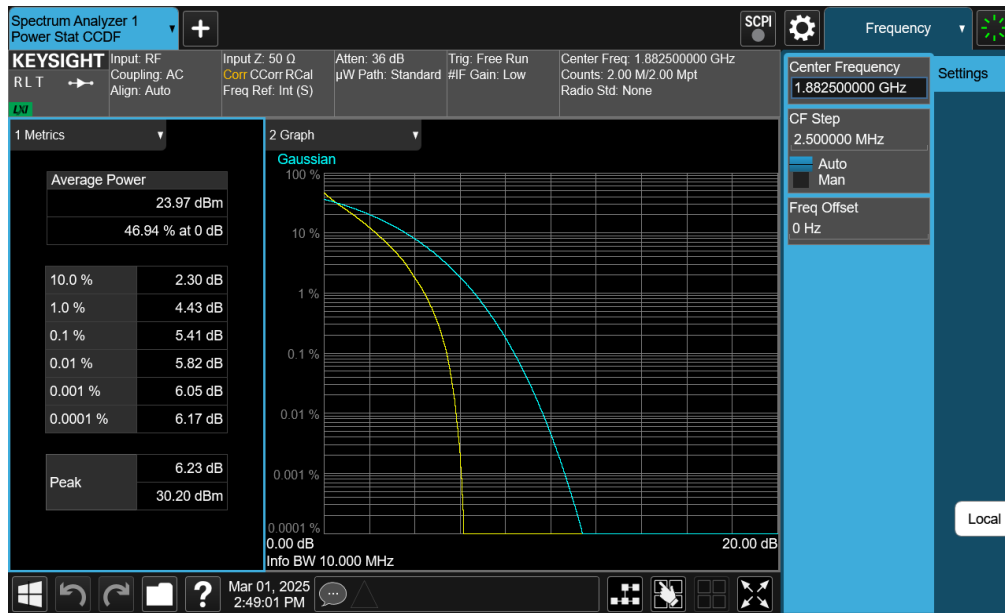


Plot 7-132. PAR Plot (LTE Band 25 - 5MHz 16-QAM - Full RB Configuration)

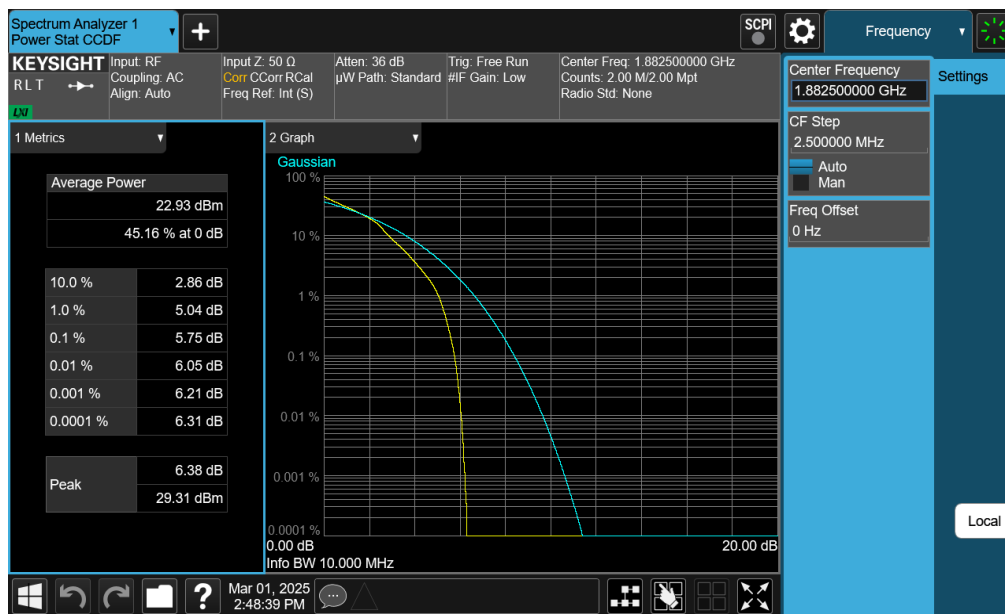
FCC ID: BCG-A3281	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-133. PAR Plot (LTE Band 25 - 10MHz QPSK - Full RB Configuration)

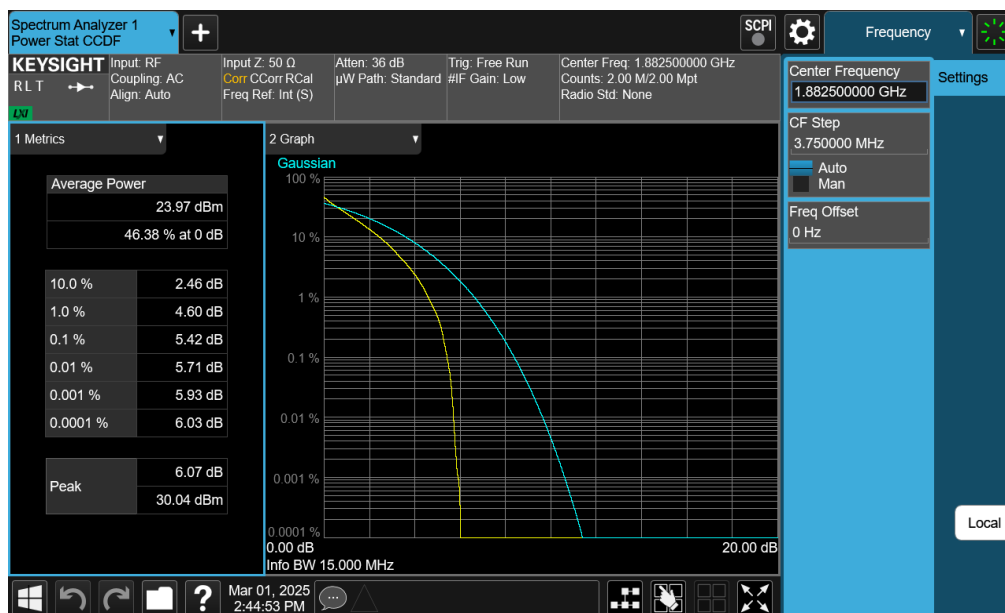


Plot 7-134. PAR Plot (LTE Band 25 - 10MHz 16-QAM - Full RB Configuration)

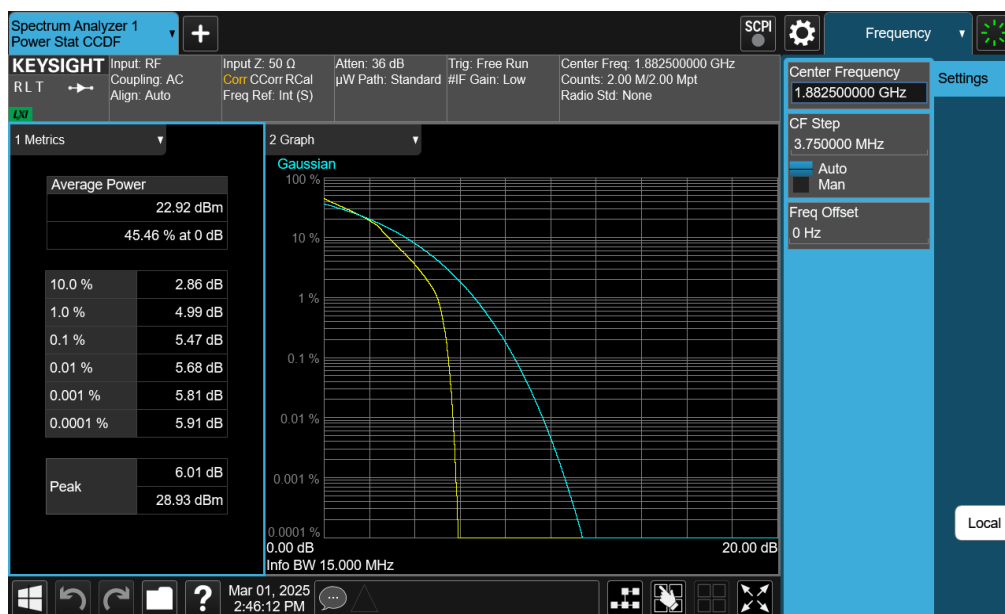
FCC ID: BCG-A3281	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-135. PAR Plot (LTE Band 25 - 15MHz QPSK - Full RB Configuration)

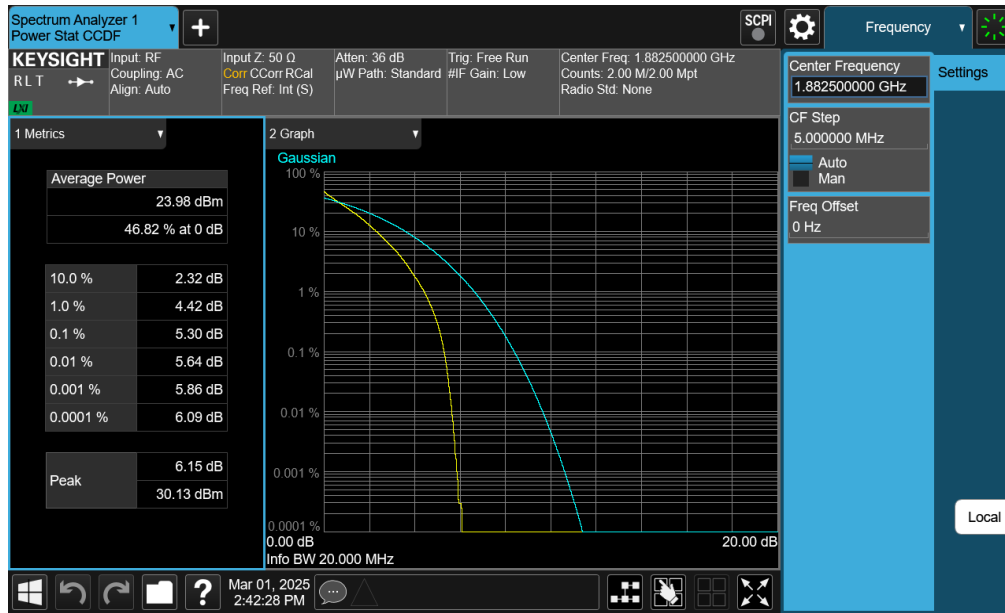


Plot 7-136. PAR Plot (LTE Band 25 - 15MHz 16-QAM - Full RB Configuration)

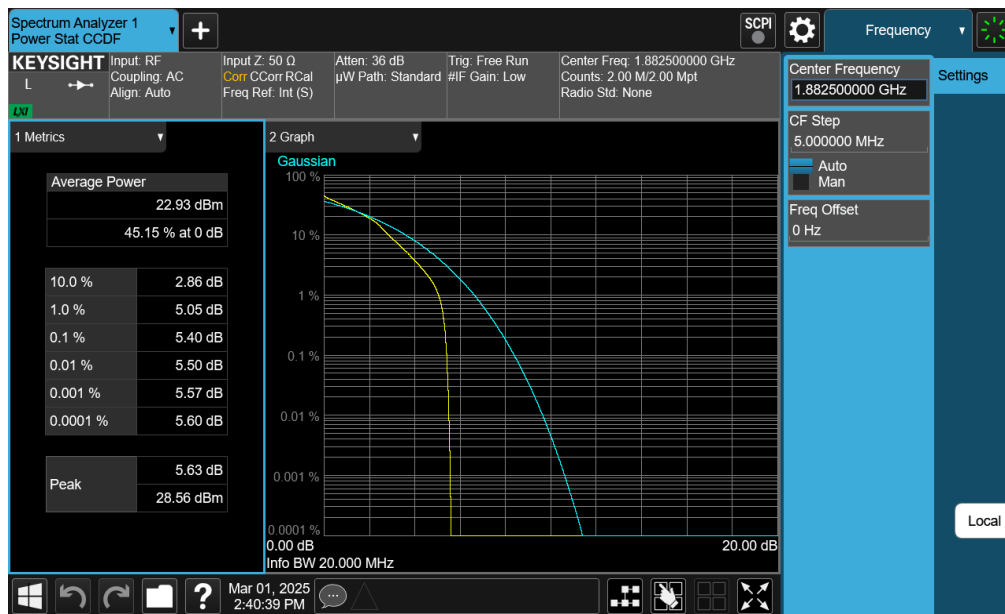
FCC ID: BCG-A3281	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-137. PAR Plot (LTE Band 25 - 20MHz QPSK - Full RB Configuration)



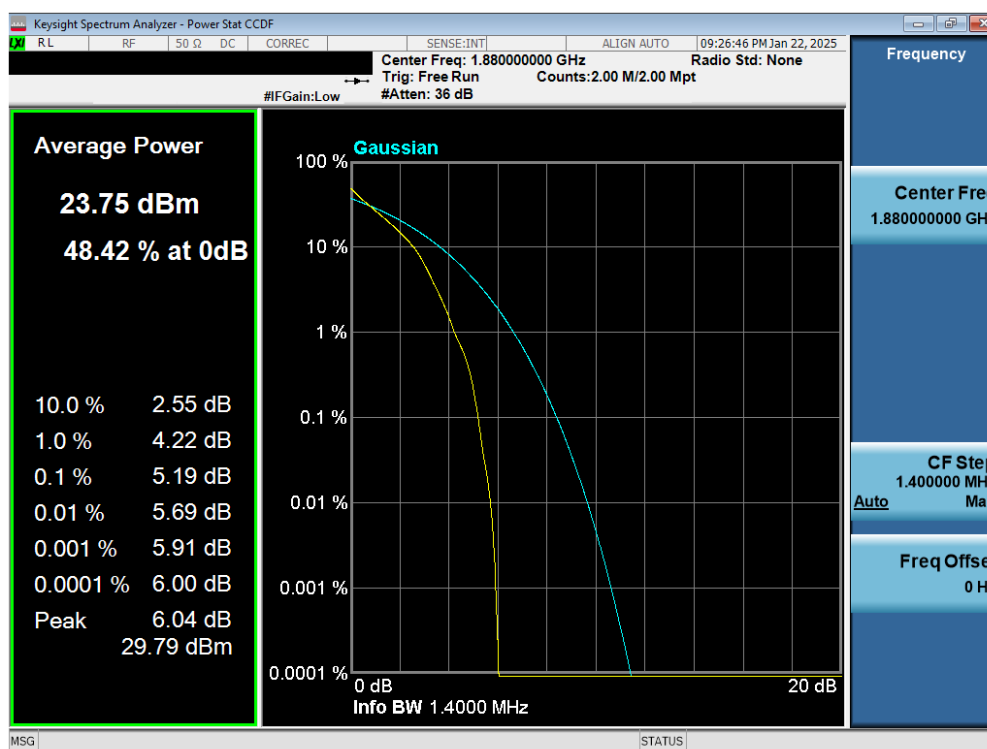
Plot 7-138. PAR Plot (LTE Band 25 - 20MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A3281	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
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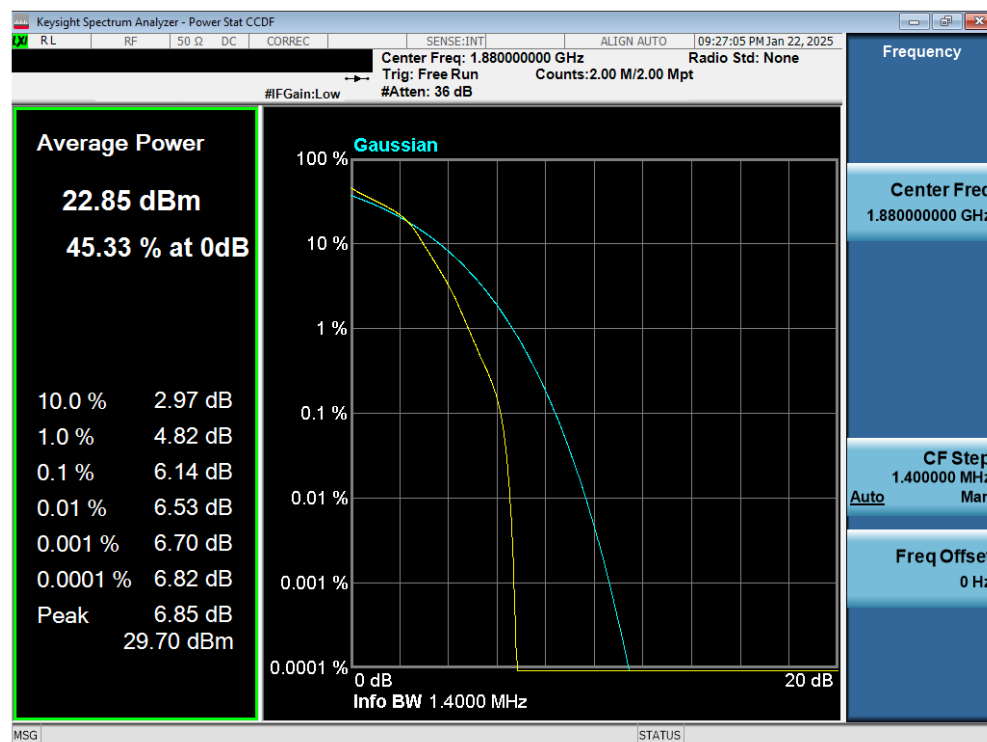
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LTE Band 2



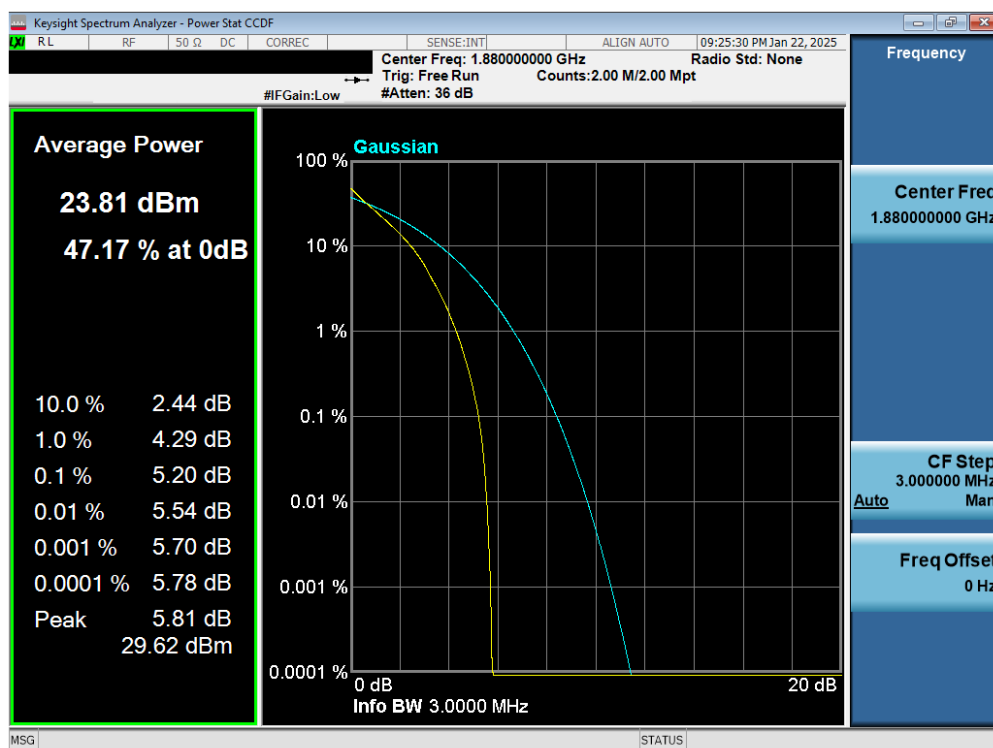
Plot 7-139. PAR Plot (LTE Band 2 - 1.4MHz QPSK - Full RB Configuration)



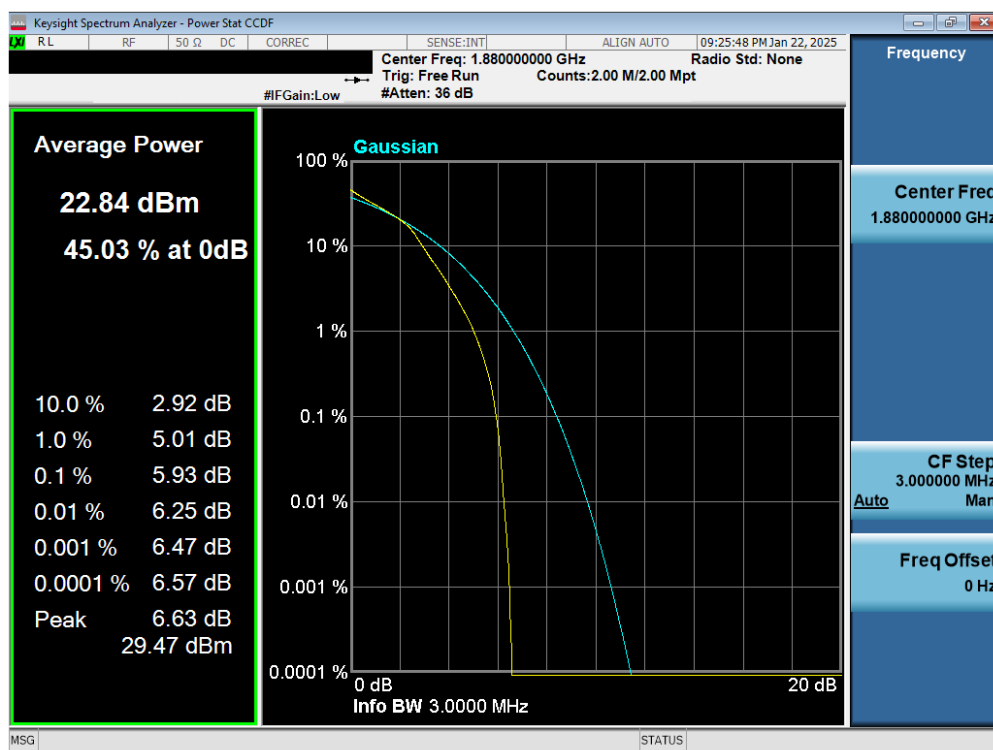
Plot 7-140. PAR Plot (LTE Band 2 - 1.4MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A3281	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
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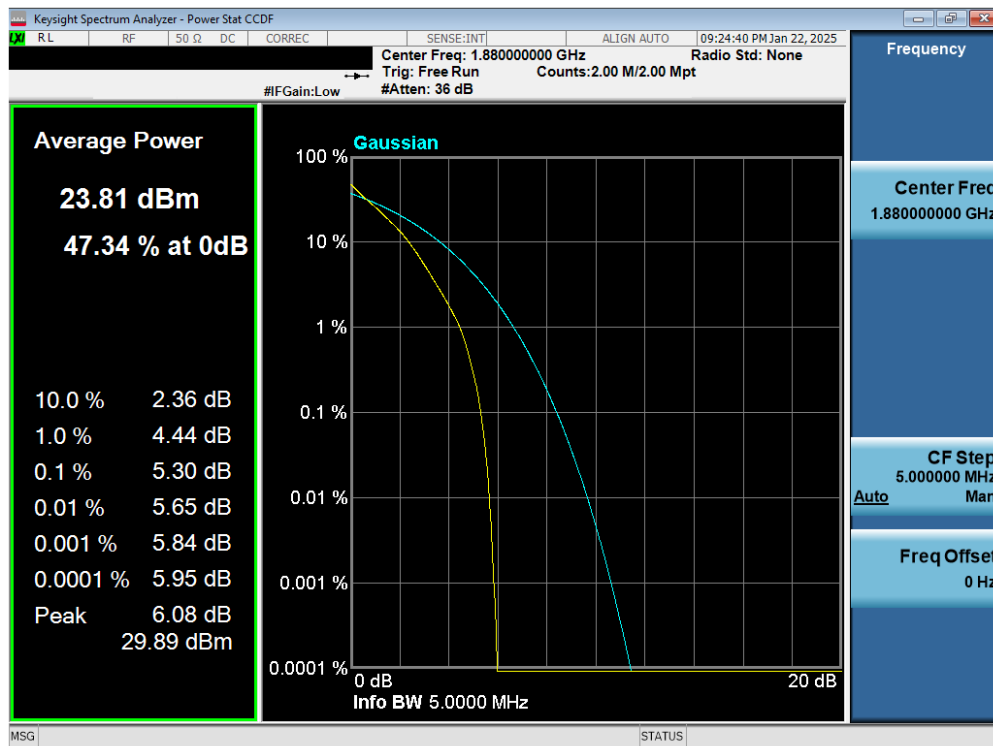
Plot 7-141. PAR Plot (LTE Band 2 - 3MHz QPSK - Full RB Configuration)



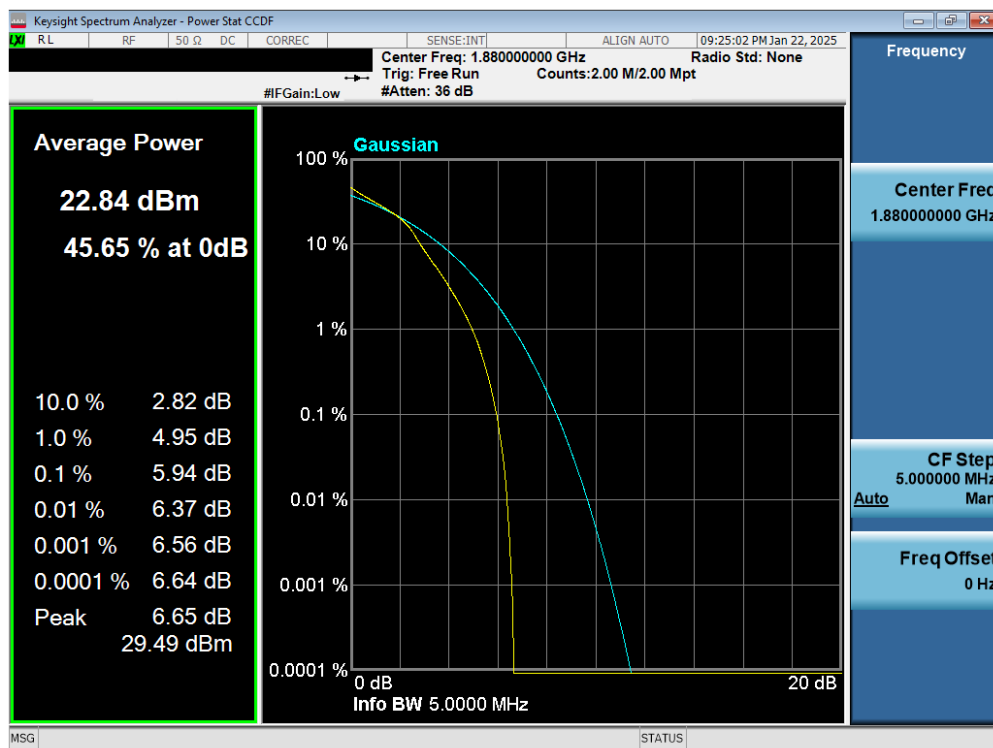
Plot 7-142. PAR Plot (LTE Band 2 - 3MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A3281	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
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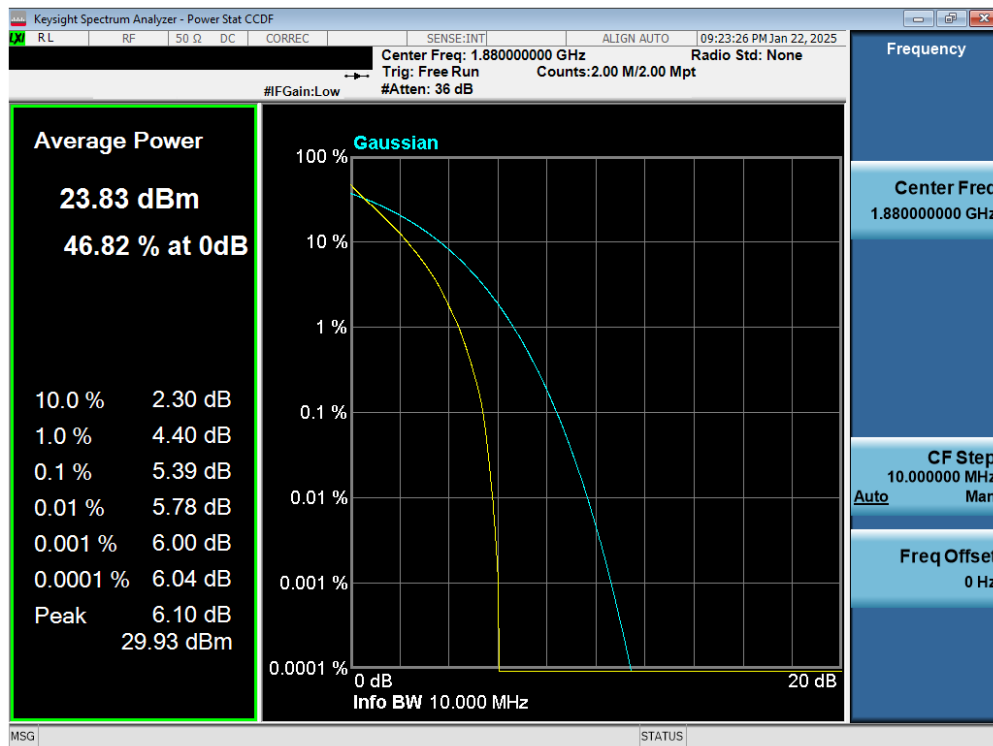
Plot 7-143. PAR Plot (LTE Band 2 - 5MHz QPSK - Full RB Configuration)



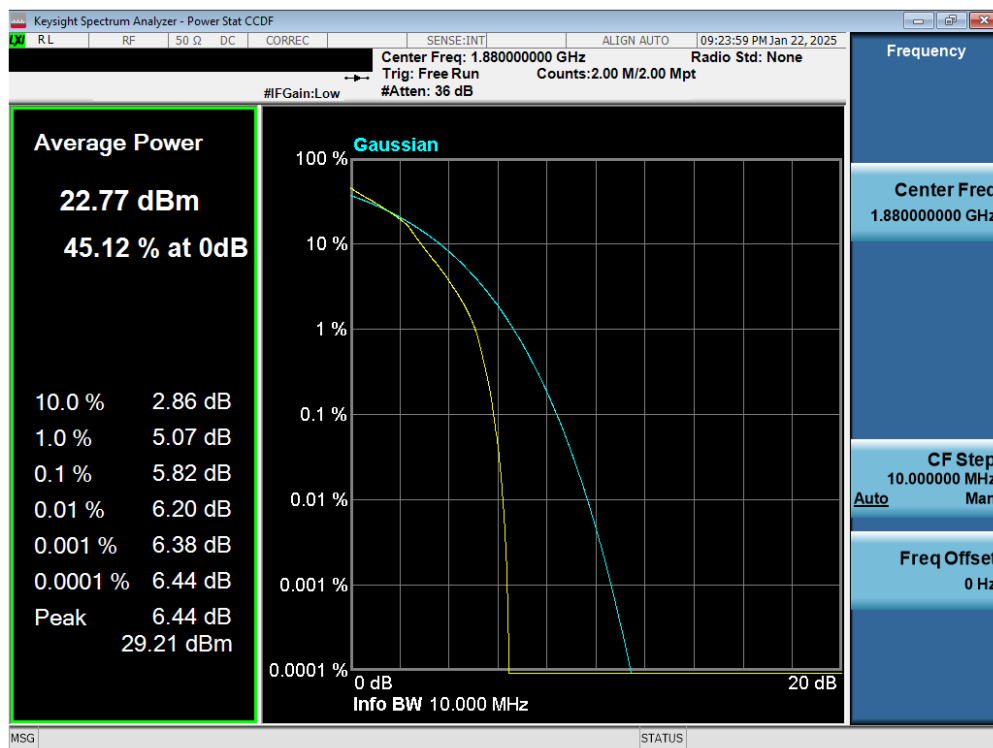
Plot 7-144. PAR Plot (LTE Band 2 - 5MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A3281	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
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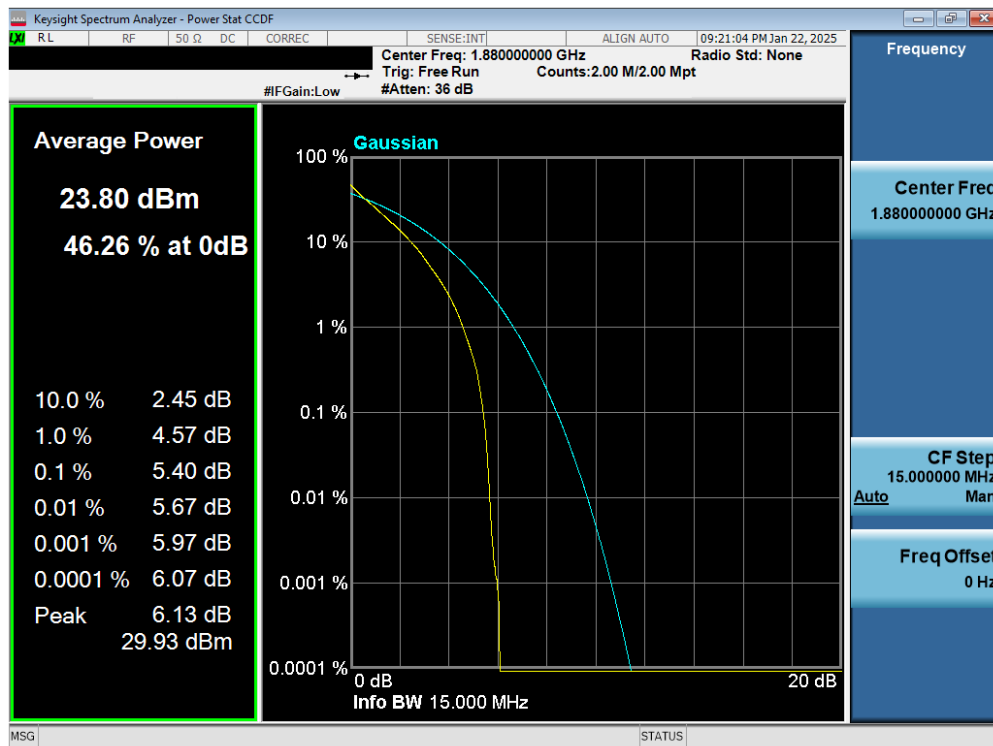
Plot 7-145. PAR Plot (LTE Band 2 - 10MHz QPSK - Full RB Configuration)



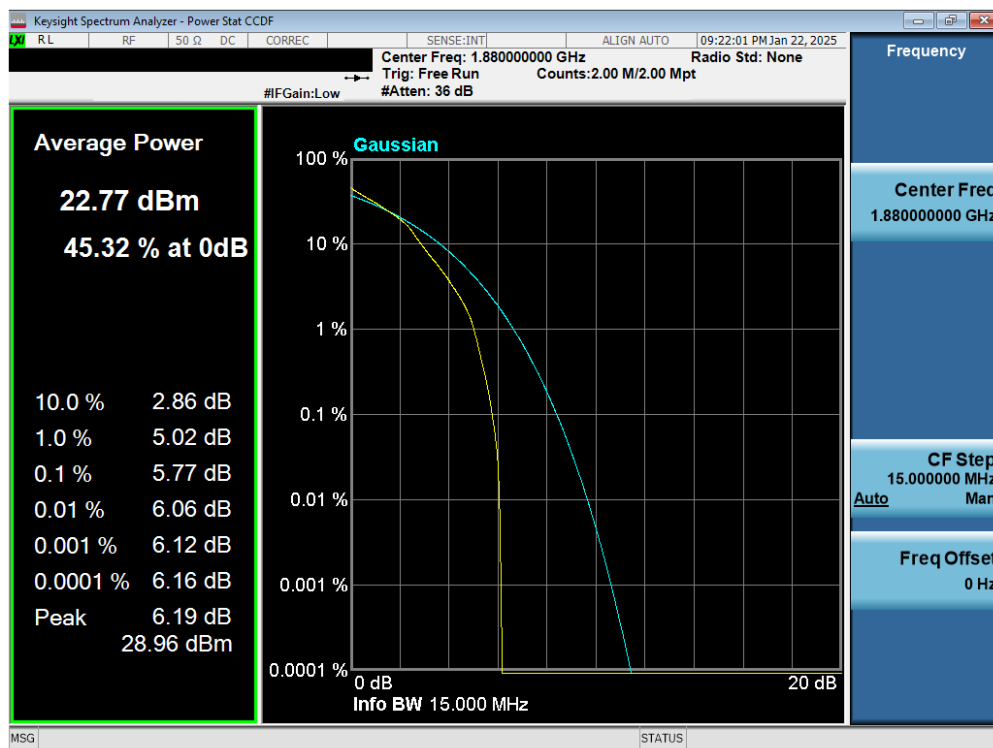
Plot 7-146. PAR Plot (LTE Band 2 - 10MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A3281	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
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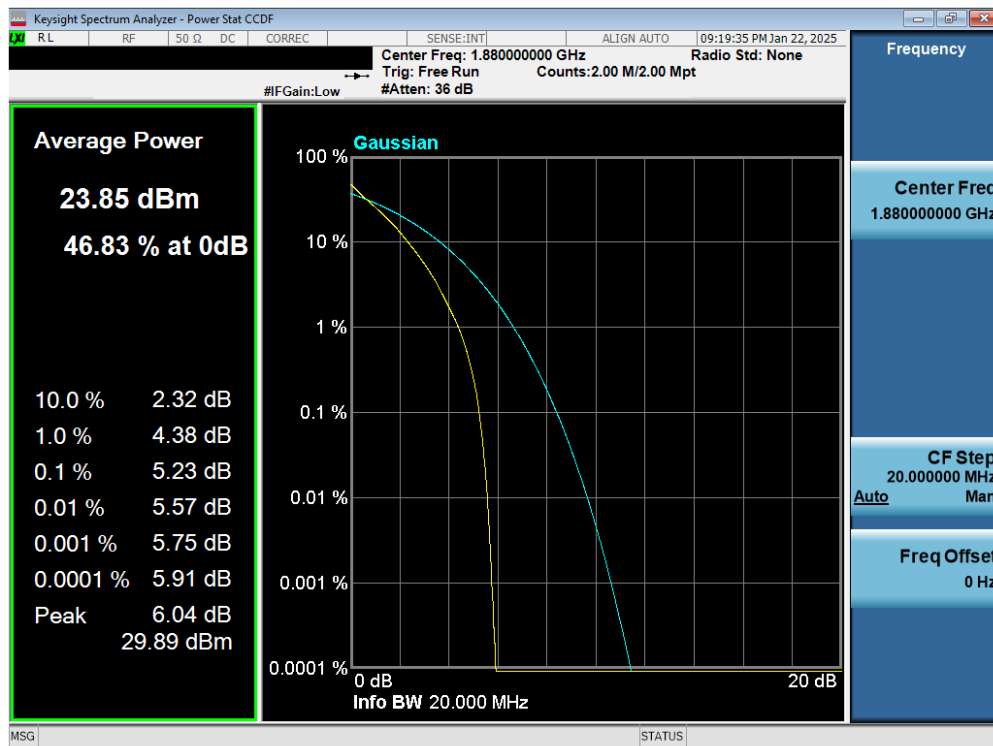
Plot 7-147. PAR Plot (LTE Band 2 - 15MHz QPSK - Full RB Configuration)



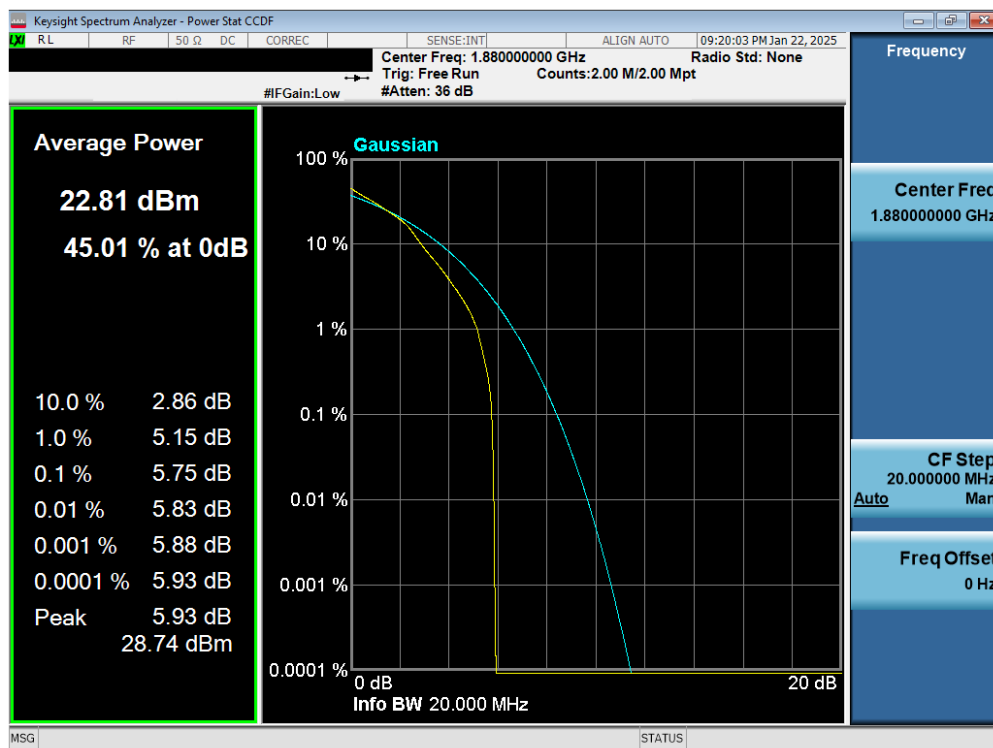
Plot 7-148. PAR Plot (LTE Band 2 - 15MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A3281	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-149. PAR Plot (LTE Band 2 - 20MHz QPSK - Full RB Configuration)



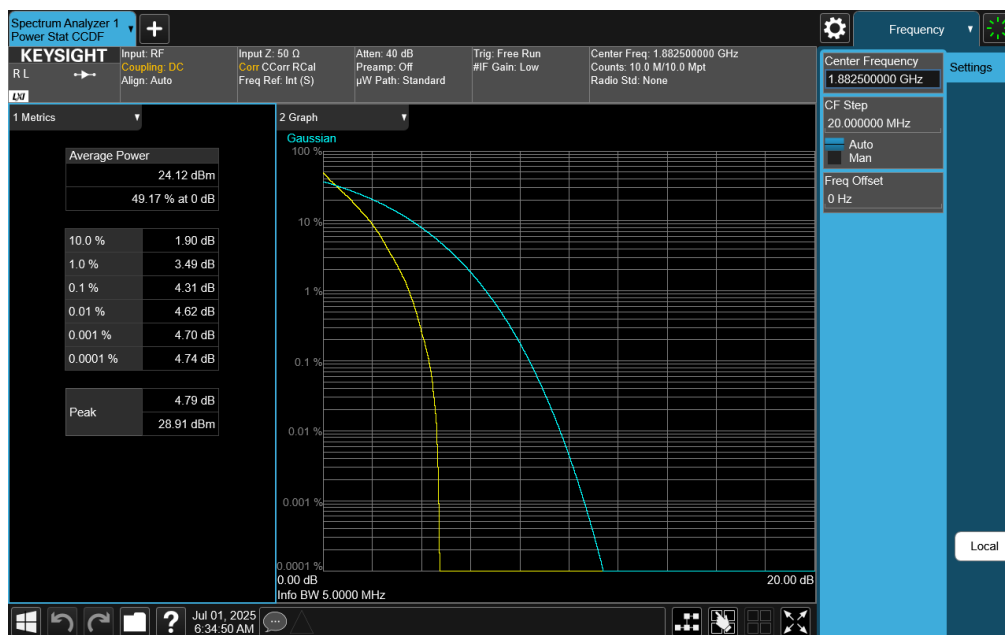
Plot 7-150. PAR Plot (LTE Band 2 - 20MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A3281	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
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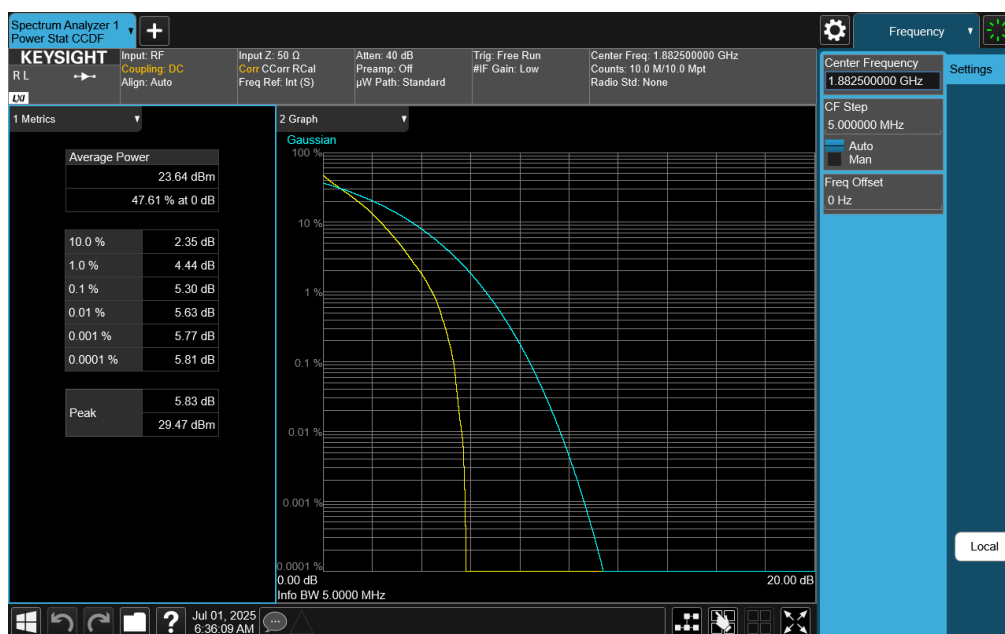
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NR Band n25



Plot 7-151. PAR Plot (NR Band n25 - 5.0MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

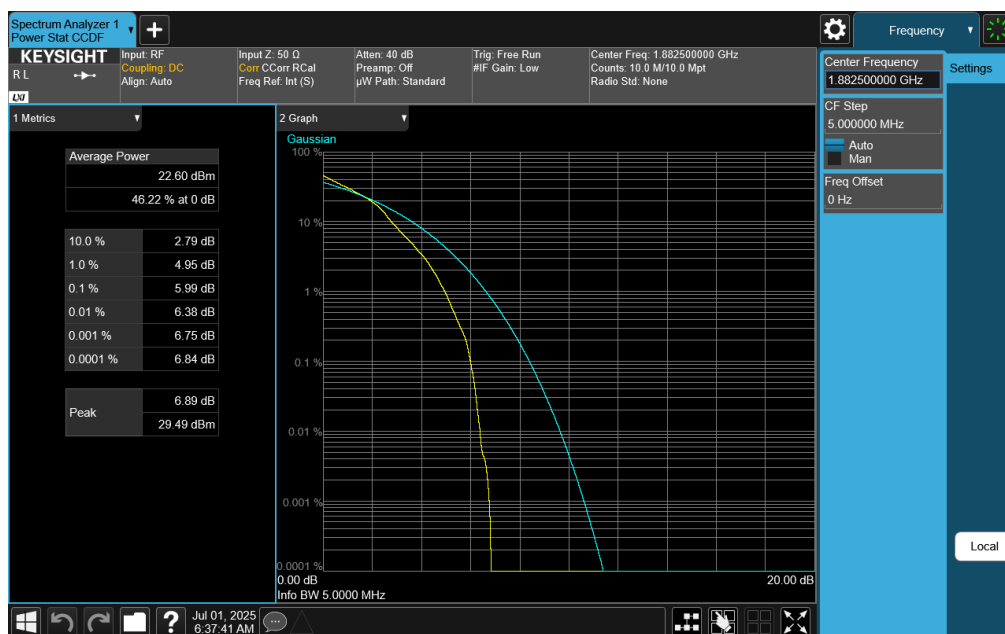


Plot 7-152. PAR Plot (NR Band n25 - 5.0MHz DFT-s-OFDM QPSK - Full RB)

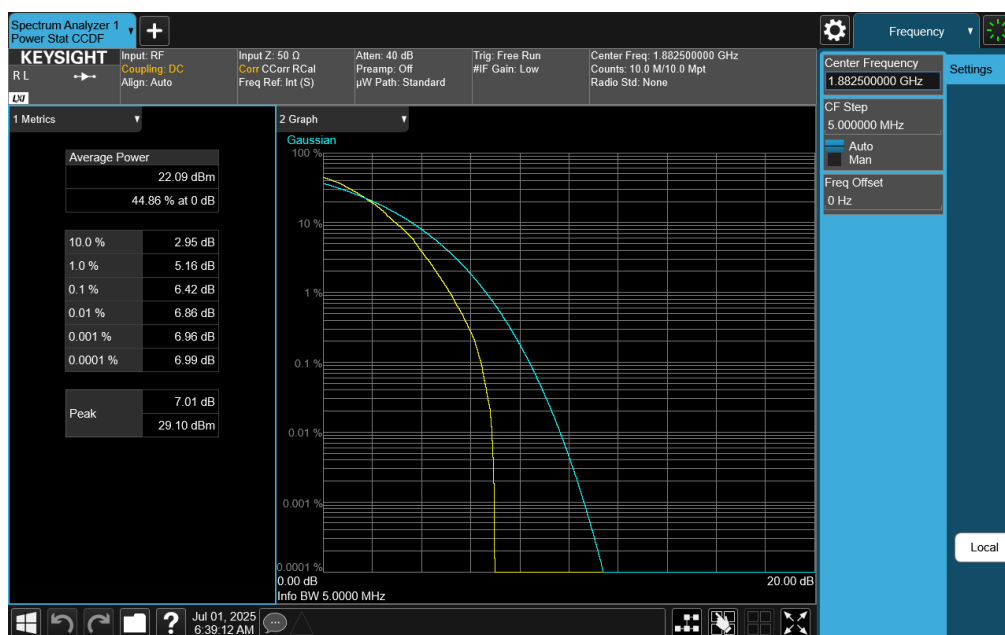
FCC ID: BCG-A3281	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-153. PAR Plot (NR Band n25 - 5.0MHz DFT-s-OFDM 16-QAM - Full RB)

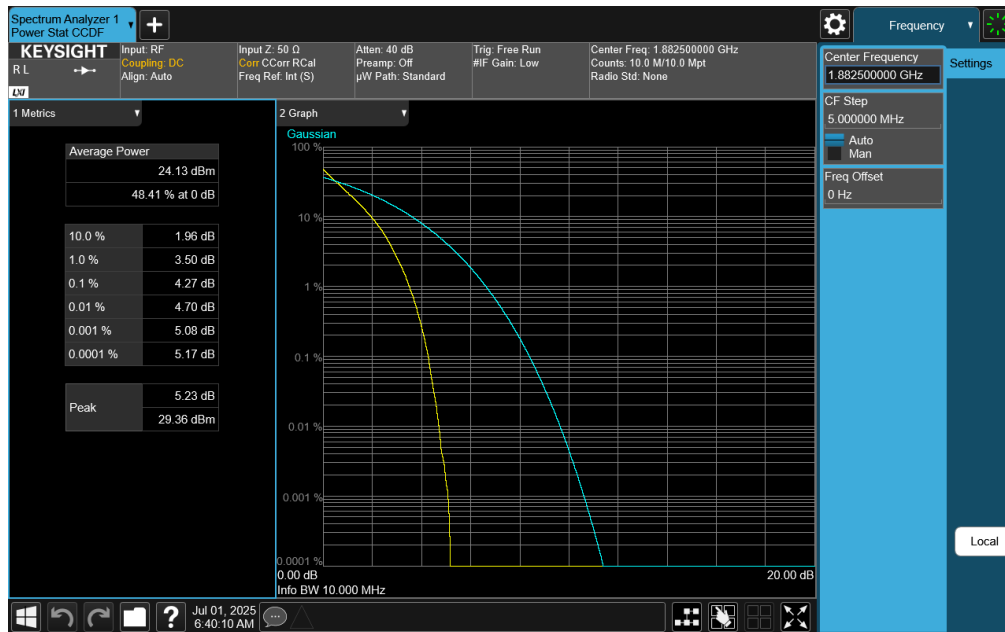


Plot 7-154. PAR Plot (NR Band n25 - 5.0MHz DFT-s-OFDM 64-QAM - Full RB)

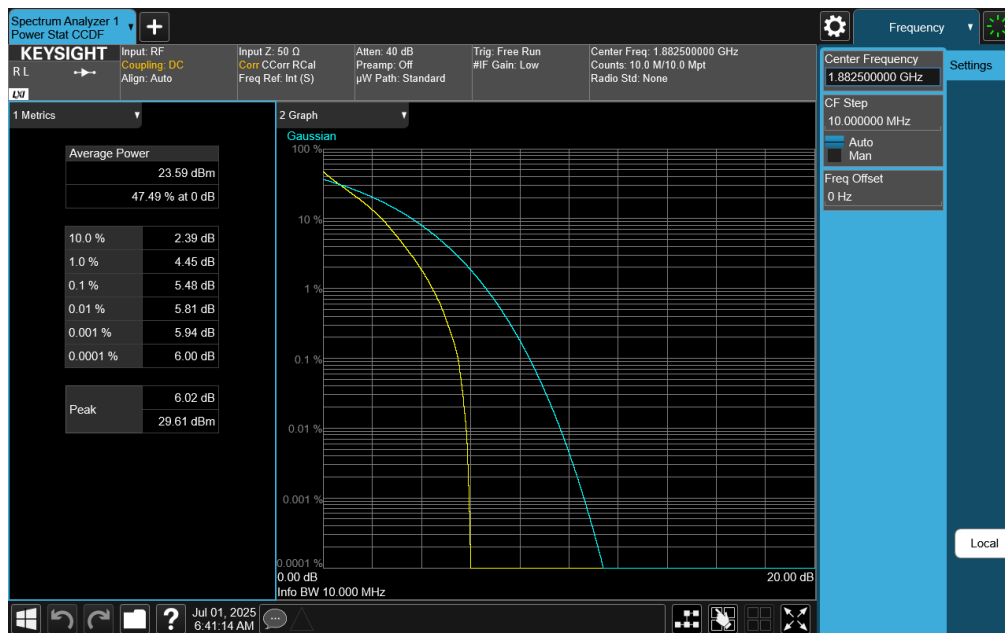
FCC ID: BCG-A3281	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-155. PAR Plot (NR Band n25 - 10.0MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

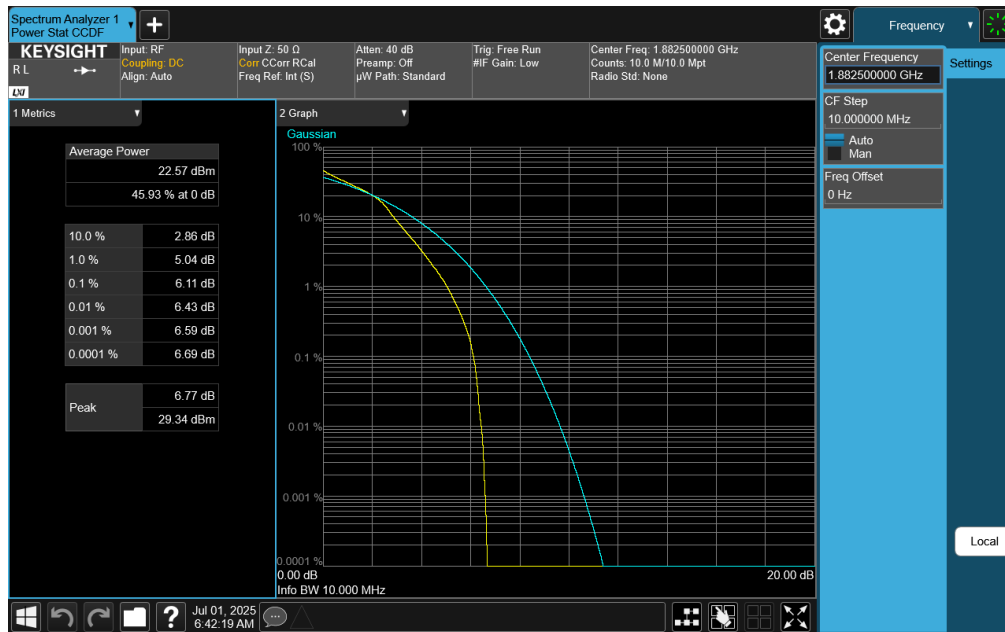


Plot 7-156. PAR Plot (NR Band n25 - 10.0MHz DFT-s-OFDM QPSK - Full RB)

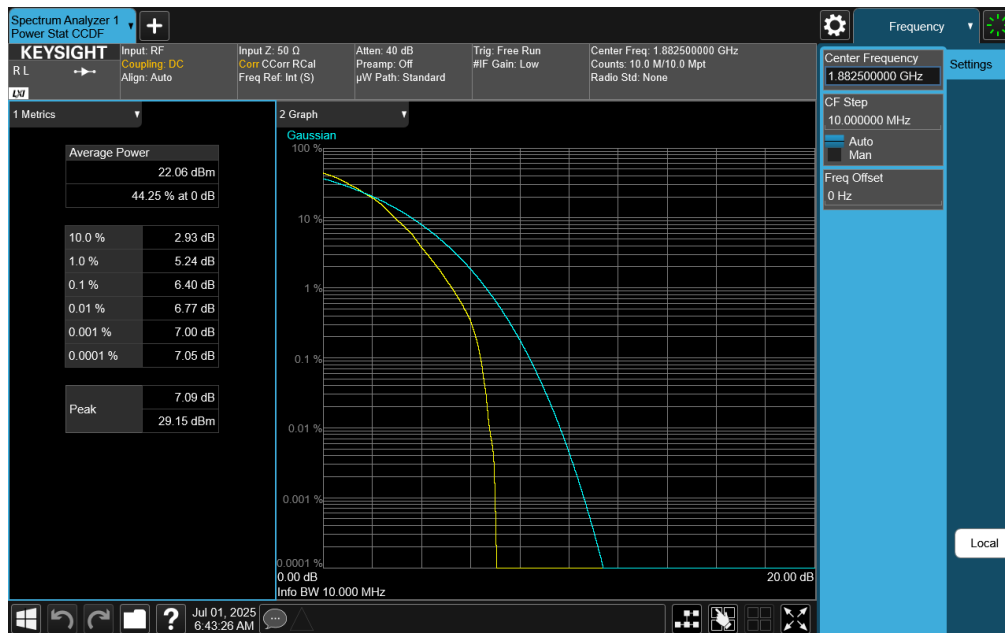
FCC ID: BCG-A3281	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-157. PAR Plot (NR Band n25 - 10.0MHz DFT-s-OFDM 16-QAM - Full RB)

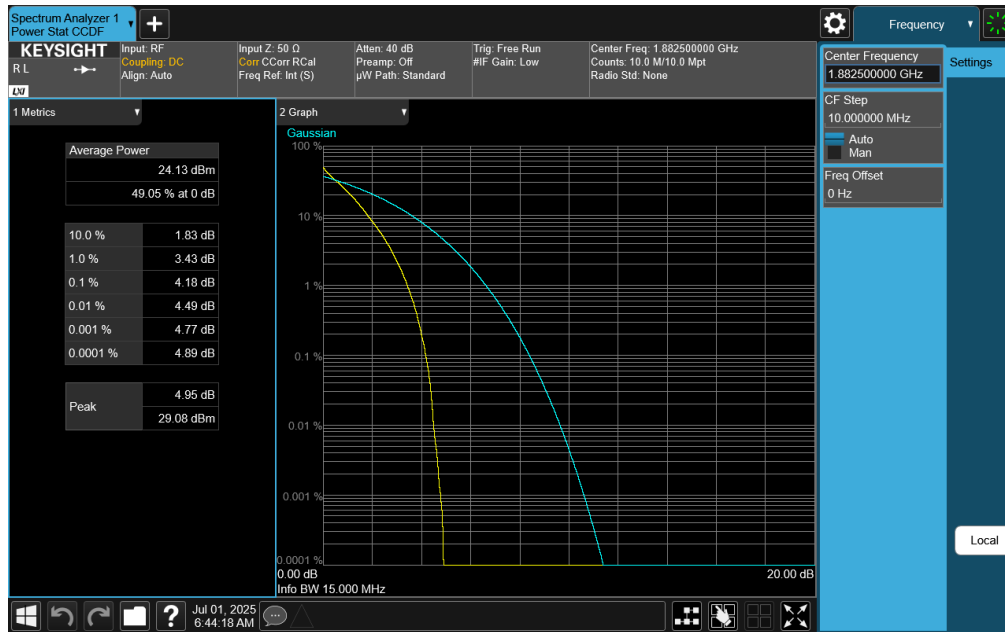


Plot 7-158. PAR Plot (NR Band n25 - 10.0MHz DFT-s-OFDM 64-QAM - Full RB)

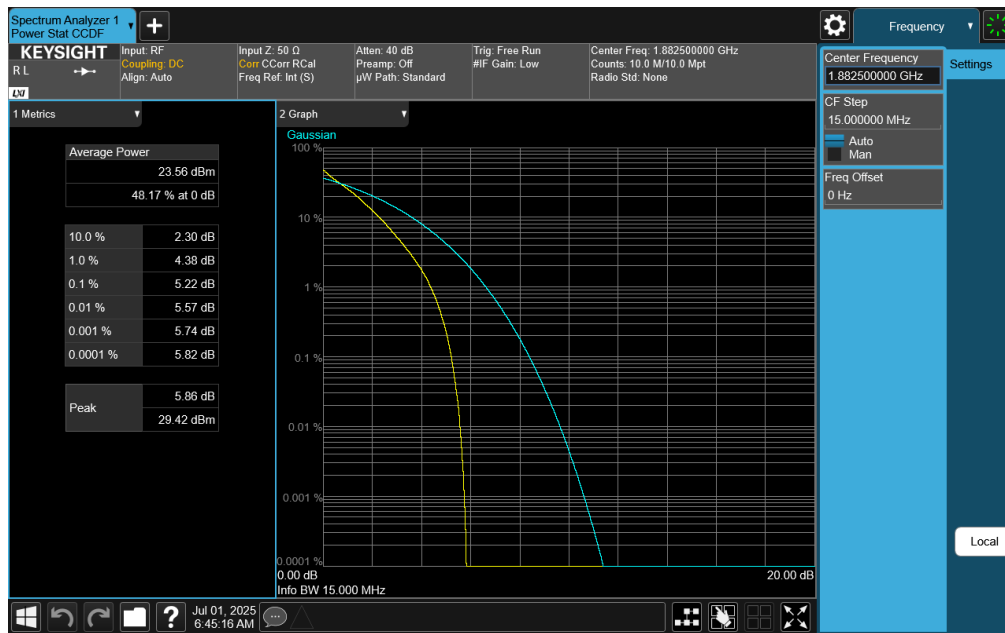
FCC ID: BCG-A3281	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-159. PAR Plot (NR Band n25 - 15.0MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)



Plot 7-160. PAR Plot (NR Band n25 - 15.0MHz DFT-s-OFDM QPSK - Full RB)

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