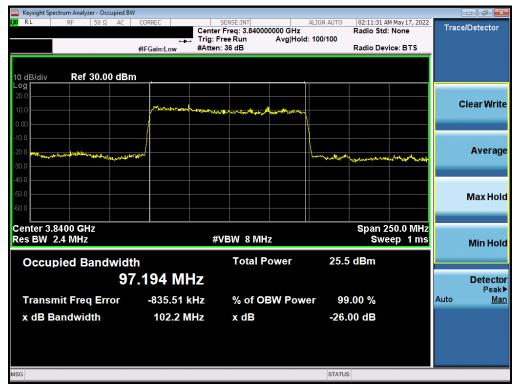


### NR Band n77 - C-Band - SRS-4 - Ant D



Plot 7-70. Occupied Bandwidth Plot (NR Band n77 (C-Band) - 100MHz π/2 BPSK - Full RB - Ant D)



Plot 7-71. Occupied Bandwidth Plot (NR Band n77 (C-Band) - 100MHz QPSK - Full RB - Ant D)

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Plot 7-72. Occupied Bandwidth Plot (NR Band n77 (C-Band) - 100MHz 16-QAM - Full RB - Ant D)

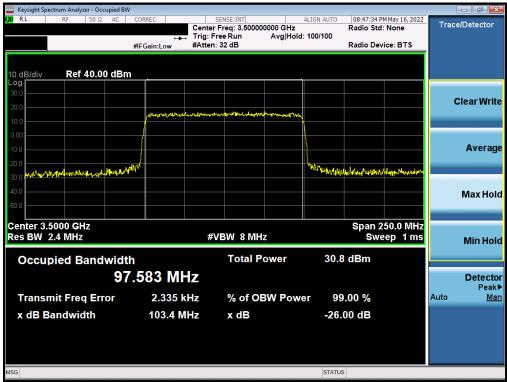
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### NR Band n77 - DoD Band - Ant F



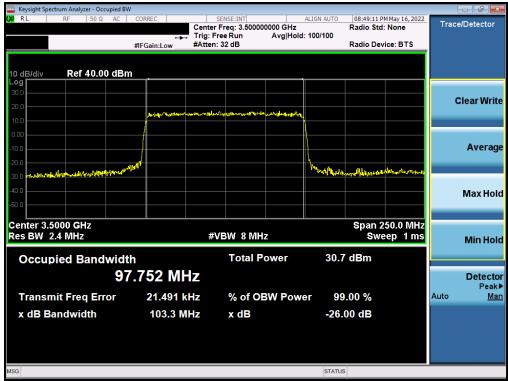
Plot 7-73. Occupied Bandwidth Plot (NR Band n77 (DoD) - 100MHz  $\pi$ /2 BPSK - Full RB - Ant F)



Plot 7-74. Occupied Bandwidth Plot (NR Band n77 (DoD) - 100MHz QPSK - Full RB - Ant F)

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Plot 7-75. Occupied Bandwidth Plot (NR Band n77 (DoD) - 100MHz 16-QAM - Full RB - Ant F)



Plot 7-76. Occupied Bandwidth Plot (NR Band n77 (DoD) - 90MHz π/2 BPSK - Full RB - Ant F)

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Plot 7-77. Occupied Bandwidth Plot (NR Band n77 (DoD) - 90MHz QPSK - Full RB - Ant F)



Plot 7-78. Occupied Bandwidth Plot (NR Band n77 (DoD) - 90MHz 16-QAM - Full RB - Ant F)

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Plot 7-79. Occupied Bandwidth Plot (NR Band n77 (DoD) - 80MHz π/2 BPSK - Full RB - Ant F)



Plot 7-80. Occupied Bandwidth Plot (NR Band n77 (DoD) - 80MHz QPSK - Full RB - Ant F)

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Plot 7-81. Occupied Bandwidth Plot (NR Band n77 (DoD) - 80MHz 16-QAM - Full RB - Ant F)



Plot 7-82. Occupied Bandwidth Plot (NR Band n77 (DoD) - 70MHz π/2 BPSK - Full RB - Ant F)

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Plot 7-83. Occupied Bandwidth Plot (NR Band n77 (DoD) - 70MHz QPSK - Full RB - Ant F)



Plot 7-84. Occupied Bandwidth Plot (NR Band n77 (DoD) - 70MHz 16-QAM - Full RB - Ant F)

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Plot 7-85. Occupied Bandwidth Plot (NR Band n77 (DoD) - 60MHz  $\pi$ /2 BPSK - Full RB - Ant F)



Plot 7-86. Occupied Bandwidth Plot (NR Band n77 (DoD) - 60MHz QPSK - Full RB - Ant F)

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Plot 7-87. Occupied Bandwidth Plot (NR Band n77 (DoD) - 60MHz 16-QAM - Full RB - Ant F)



Plot 7-88. Occupied Bandwidth Plot (NR Band n77 (DoD) - 50MHz π/2 BPSK - Full RB - Ant F)

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Plot 7-89. Occupied Bandwidth Plot (NR Band n77 (DoD) - 50MHz QPSK - Full RB - Ant F)



Plot 7-90. Occupied Bandwidth Plot (NR Band n77 (DoD) - 50MHz 16-QAM - Full RB - Ant F)

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Plot 7-91. Occupied Bandwidth Plot (NR Band n77 (DoD) - 40MHz π/2 BPSK - Full RB - Ant F)



Plot 7-92. Occupied Bandwidth Plot (NR Band n77 (DoD) - 40MHz QPSK - Full RB - Ant F)

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Plot 7-93. Occupied Bandwidth Plot (NR Band n77 (DoD) - 40MHz 16-QAM - Full RB - Ant F)



Plot 7-94. Occupied Bandwidth Plot (NR Band n77 (DoD) - 30MHz π/2 BPSK - Full RB - Ant F)

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Plot 7-95. Occupied Bandwidth Plot (NR Band n77 (DoD) - 30MHz QPSK - Full RB - Ant F)



Plot 7-96. Occupied Bandwidth Plot (NR Band n77 (DoD) - 30MHz 16-QAM - Full RB - Ant F)

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Plot 7-97. Occupied Bandwidth Plot (NR Band n77 (DoD) - 20MHz π/2 BPSK - Full RB - Ant F)



Plot 7-98. Occupied Bandwidth Plot (NR Band n77 (DoD) - 20MHz QPSK - Full RB - Ant F)

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Plot 7-99. Occupied Bandwidth Plot (NR Band n77 (DoD) - 20MHz 16-QAM - Full RB - Ant F)



Plot 7-100. Occupied Bandwidth Plot (NR Band n77 (DoD) - 15MHz π/2 BPSK - Full RB - Ant F)

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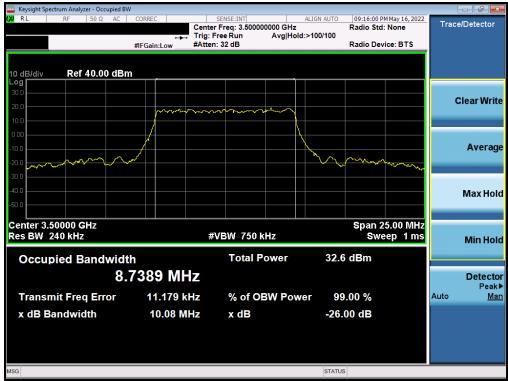
Plot 7-101. Occupied Bandwidth Plot (NR Band n77 (DoD) - 15MHz QPSK - Full RB - Ant F)



Plot 7-102. Occupied Bandwidth Plot (NR Band n77 (DoD) - 15MHz 16-QAM - Full RB - Ant F)

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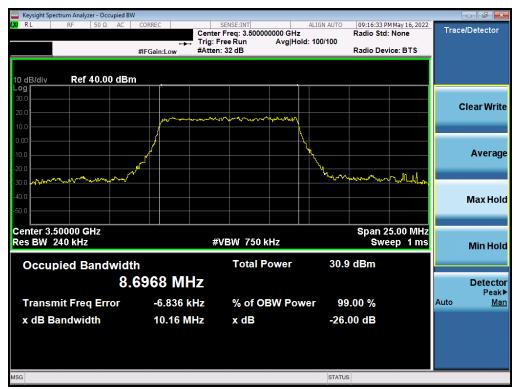
Plot 7-103. Occupied Bandwidth Plot (NR Band n77 (DoD) - 10MHz π/2 BPSK - Full RB - Ant F)



Plot 7-104. Occupied Bandwidth Plot (NR Band n77 (DoD) - 10MHz QPSK - Full RB - Ant F)

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Plot 7-105. Occupied Bandwidth Plot (NR Band n77 (DoD) - 10MHz 16-QAM - Full RB - Ant F)

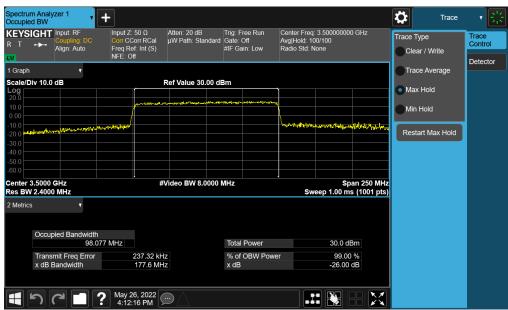
FCC ID: A3LSMF936B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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# NR Band n77 - DoD Band - SRS-2 - Ant E



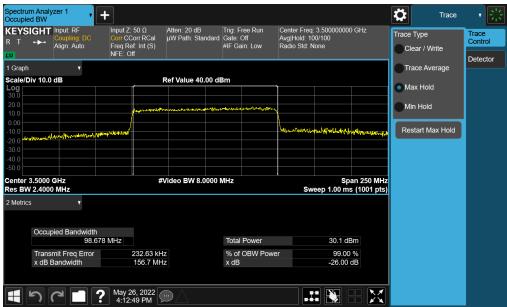
Plot 7-106. Occupied Bandwidth Plot (NR Band n77 (DoD) - 100MHz π/2 BPSK - Full RB - Ant E)



Plot 7-107. Occupied Bandwidth Plot (NR Band n77 (DoD) - 100MHz QPSK - Full RB - Ant E)

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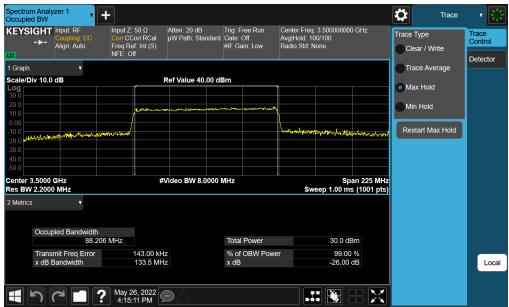
Plot 7-108. Occupied Bandwidth Plot (NR Band n77 (DoD) - 100MHz 16-QAM - Full RB - Ant E)



Plot 7-109. Occupied Bandwidth Plot (NR Band n77 (DoD) - 90MHz π/2 BPSK - Full RB - Ant E)

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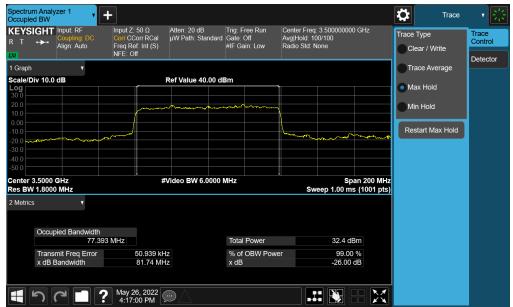
Plot 7-110. Occupied Bandwidth Plot (NR Band n77 (DoD) - 90MHz QPSK - Full RB - Ant E)



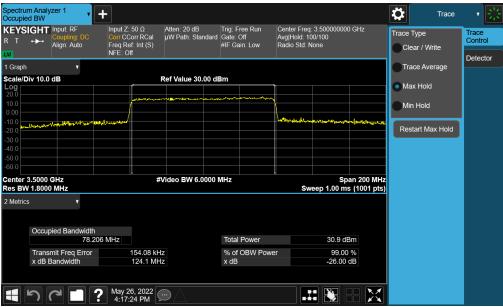
Plot 7-111. Occupied Bandwidth Plot (NR Band n77 (DoD) - 90MHz 16-QAM - Full RB - Ant E)

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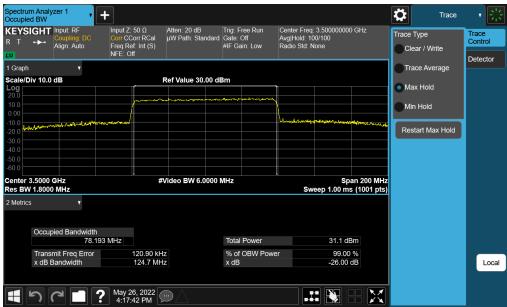
Plot 7-112. Occupied Bandwidth Plot (NR Band n77 (DoD) - 80MHz π/2 BPSK - Full RB - Ant E)



Plot 7-113. Occupied Bandwidth Plot (NR Band n77 (DoD) - 80MHz QPSK - Full RB - Ant E)

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Plot 7-114. Occupied Bandwidth Plot (NR Band n77 (DoD) - 80MHz 16-QAM - Full RB - Ant E)



Plot 7-115. Occupied Bandwidth Plot (NR Band n77 (DoD) - 70MHz π/2 BPSK - Full RB - Ant E)

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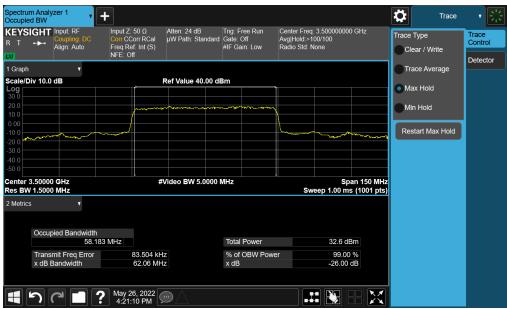
Plot 7-116. Occupied Bandwidth Plot (NR Band n77 (DoD) - 70MHz QPSK - Full RB - Ant E)



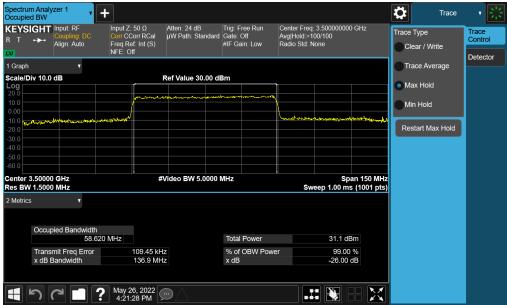
Plot 7-117. Occupied Bandwidth Plot (NR Band n77 (DoD) - 70MHz 16-QAM - Full RB - Ant E)

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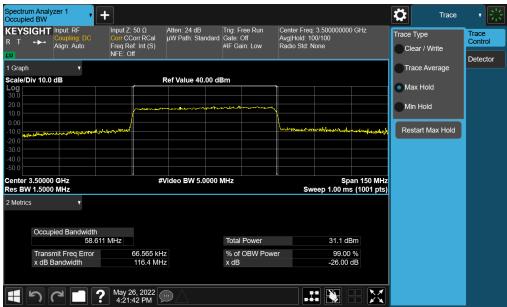
Plot 7-118. Occupied Bandwidth Plot (NR Band n77 (DoD) - 60MHz π/2 BPSK - Full RB - Ant E)



Plot 7-119. Occupied Bandwidth Plot (NR Band n77 (DoD) - 60MHz QPSK - Full RB - Ant E)

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Plot 7-120. Occupied Bandwidth Plot (NR Band n77 (DoD) - 60MHz 16-QAM - Full RB - Ant E)



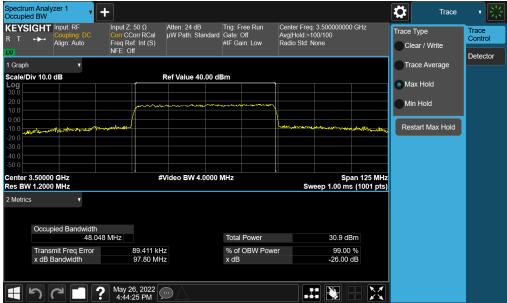
Plot 7-121. Occupied Bandwidth Plot (NR Band n77 (DoD) - 50MHz π/2 BPSK - Full RB - Ant E)

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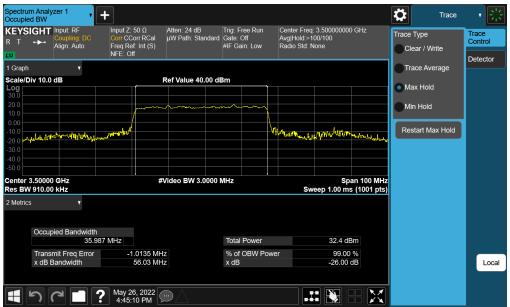
Plot 7-122. Occupied Bandwidth Plot (NR Band n77 (DoD) - 50MHz QPSK - Full RB - Ant E)



Plot 7-123. Occupied Bandwidth Plot (NR Band n77 (DoD) - 50MHz 16-QAM - Full RB - Ant E)

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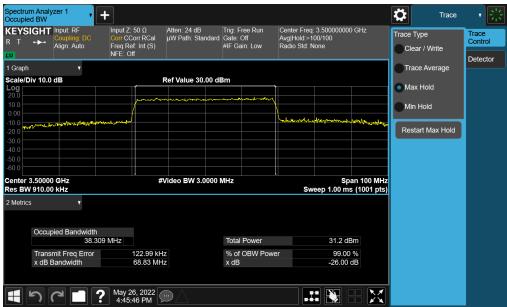
Plot 7-124. Occupied Bandwidth Plot (NR Band n77 (DoD) - 40MHz π/2 BPSK - Full RB - Ant E)



Plot 7-125. Occupied Bandwidth Plot (NR Band n77 (DoD) - 40MHz QPSK - Full RB - Ant E)

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Plot 7-126. Occupied Bandwidth Plot (NR Band n77 (DoD) - 40MHz 16-QAM - Full RB - Ant E)



Plot 7-127. Occupied Bandwidth Plot (NR Band n77 (DoD) - 30MHz π/2 BPSK - Full RB - Ant E)

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Plot 7-128. Occupied Bandwidth Plot (NR Band n77 (DoD) - 30MHz QPSK - Full RB - Ant E)



Plot 7-129. Occupied Bandwidth Plot (NR Band n77 (DoD) - 30MHz 16-QAM - Full RB - Ant E)

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Plot 7-130. Occupied Bandwidth Plot (NR Band n77 (DoD) - 20MHz π/2 BPSK - Full RB - Ant E)



Plot 7-131. Occupied Bandwidth Plot (NR Band n77 (DoD) - 20MHz QPSK - Full RB - Ant E)

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Plot 7-132. Occupied Bandwidth Plot (NR Band n77 (DoD) - 20MHz 16-QAM - Full RB - Ant E)



Plot 7-133. Occupied Bandwidth Plot (NR Band n77 (DoD) - 15MHz π/2 BPSK - Full RB - Ant E)

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Plot 7-134. Occupied Bandwidth Plot (NR Band n77 (DoD) - 15MHz QPSK - Full RB - Ant E)



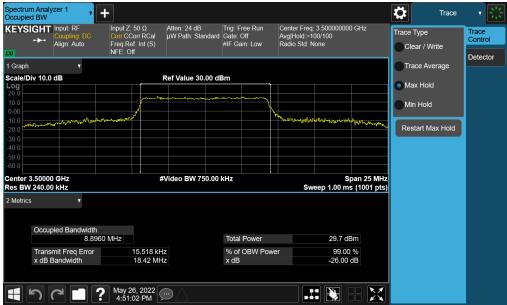
Plot 7-135. Occupied Bandwidth Plot (NR Band n77 (DoD) - 15MHz 16-QAM - Full RB - Ant E)

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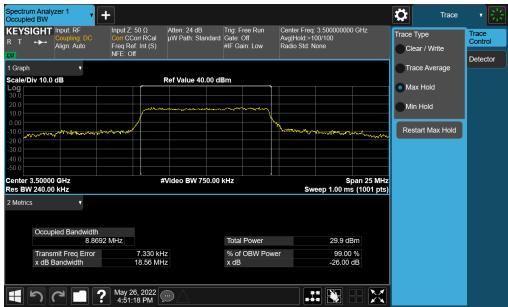
Plot 7-136. Occupied Bandwidth Plot (NR Band n77 (DoD) - 10MHz π/2 BPSK - Full RB - Ant E)



Plot 7-137. Occupied Bandwidth Plot (NR Band n77 (DoD) - 10MHz QPSK - Full RB - Ant E)

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Plot 7-138. Occupied Bandwidth Plot (NR Band n77 (DoD) - 10MHz 16-QAM - Full RB - Ant E)

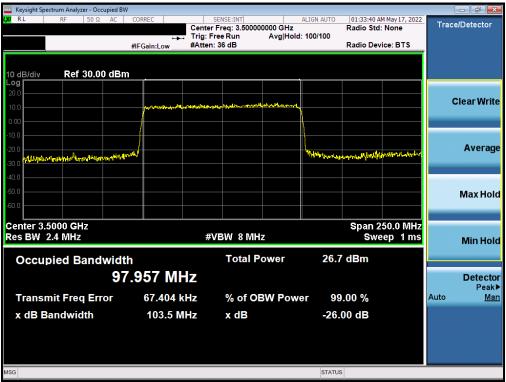
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## NR Band n77 - DoD Band - SRS-3 - Ant G



Plot 7-139. Occupied Bandwidth Plot (NR Band n77 (DoD) - 100MHz π/2 BPSK - Full RB - Ant G)



Plot 7-140. Occupied Bandwidth Plot (NR Band n77 (DoD) - 100MHz QPSK - Full RB - Ant G)

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Plot 7-141. Occupied Bandwidth Plot (NR Band n77 (DoD) - 100MHz 16-QAM - Full RB - Ant G)

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## NR Band n77 - DoD Band - SRS-4 - Ant D



Plot 7-142. Occupied Bandwidth Plot (NR Band n77 (DoD) - 100MHz  $\pi$ /2 BPSK - Full RB - Ant D)



Plot 7-143. Occupied Bandwidth Plot (NR Band n77 (DoD) - 100MHz QPSK - Full RB - Ant D)

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Plot 7-144. Occupied Bandwidth Plot (NR Band n77 (DoD) - 100MHz 16-QAM - Full RB - Ant D)

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# 7.4 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 10<sup>th</sup> harmonic. All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

For operations in the 3700 – 3980MHz band and the 3450 – 3550MHz band, the maximum permissible conducted power level of any spurious emission is -13dBm/MHz.

#### **Test Procedure Used**

ANSI C63.26-2015 - Section 5.7.4

#### **Test Settings**

- 1. Start frequency was set to 30MHz and stop frequency was set to the tenth harmonic of the highest transmit frequency (separated into at least two plots per channel)
- 2. Detector = RMS
- 3. Trace mode = trace average for continuous emissions, max hold for pulse emissions
- 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 7-3. Test Instrument & Measurement Setup

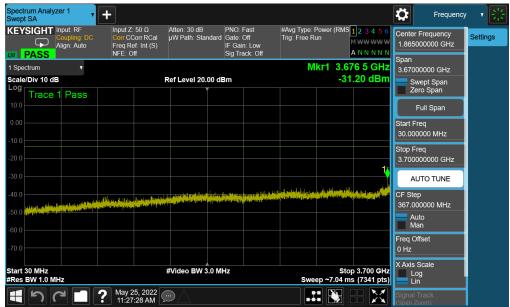
### **Test Notes**

- 1. Per Part 27.53(k), Part 27.53(l), and RSS-199, compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz.
- 2. For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst-case configuration results are reported in this section.

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## NR Band n77 - C-Band - Ant F



Plot 7-145. Conducted Spurious Plot (NR Band n77 - C-Band - 100MHz QPSK - RB Size 1, RB Offset 0 - Low Channel - Ant F)



Plot 7-146. Conducted Spurious Plot (NR Band n77 - C-Band - 100MHz QPSK - RB Size 1, RB Offset 0 - Low Channel - Ant F)

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