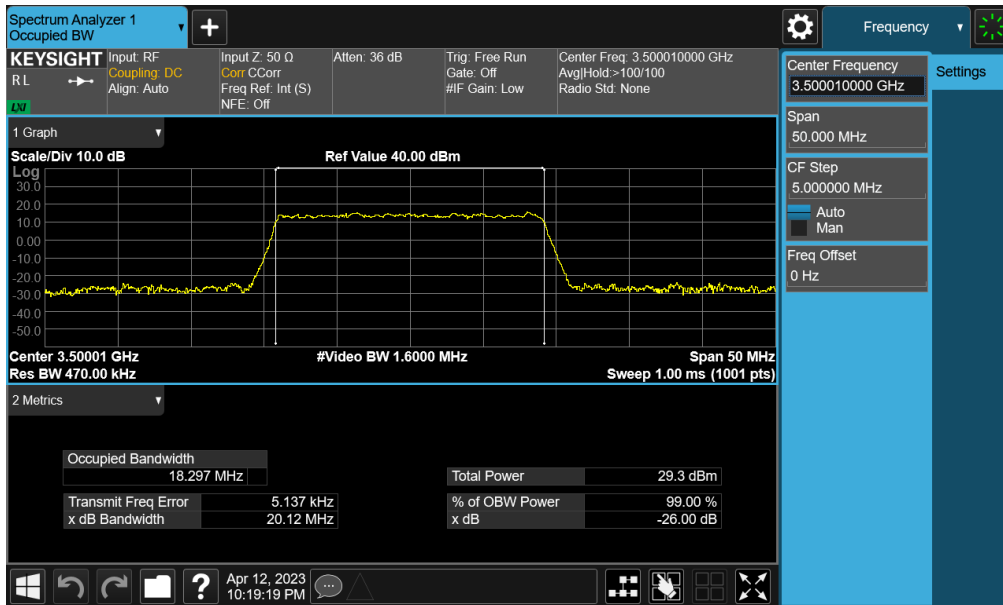


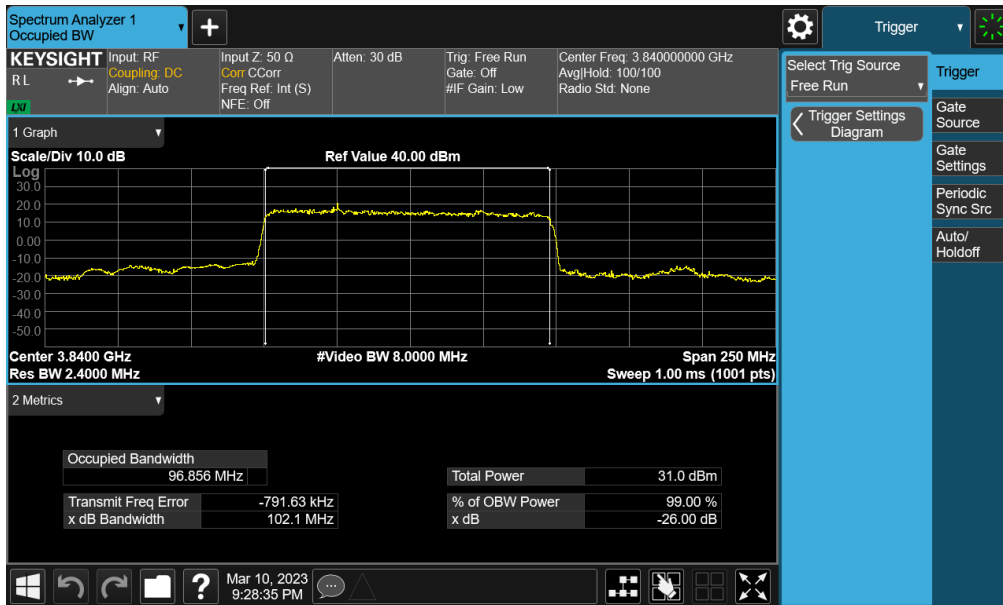
Plot 7-65. Occupied Bandwidth Plot (NR Band n77 PC2 (DoD) - 20MHz 64-QAM - Full RB - Sub-UHB)



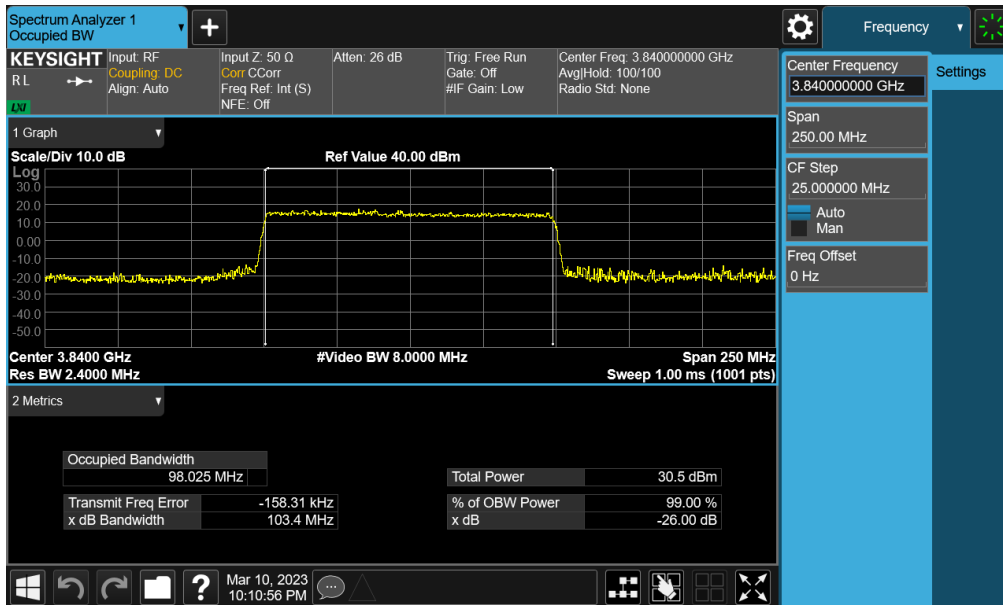
Plot 7-66. Occupied Bandwidth Plot (NR Band n77 PC2 (DoD) - 20MHz 256-QAM - Full RB - Sub-UHB)

FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n77 PC2 (C-band) – Sub-UHB

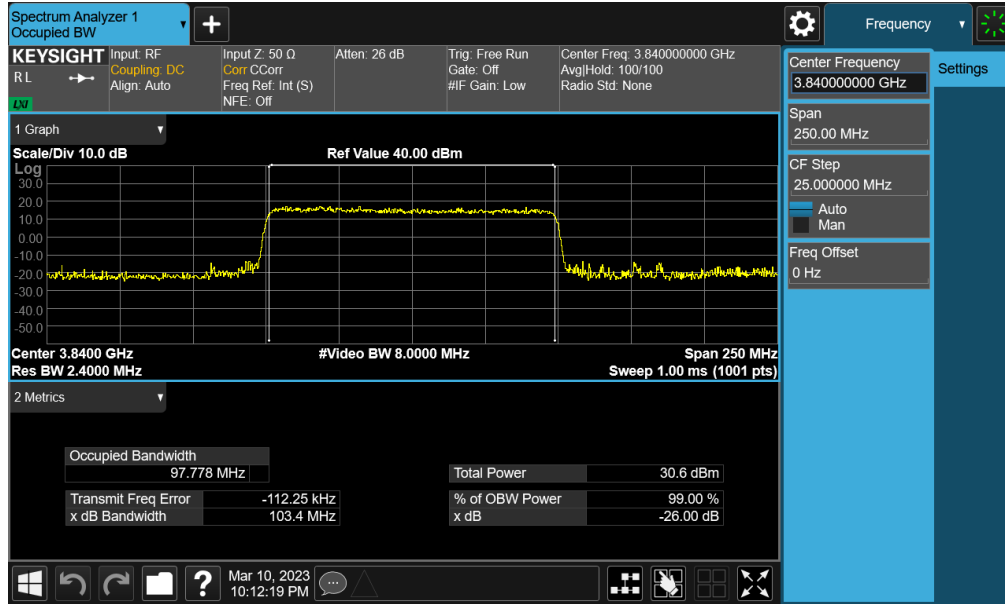


Plot 7-67. Occupied Bandwidth Plot (NR Band n77 PC2 (C-band) - 100MHz $\pi/2$ BPSK - Full RB – Sub-UHB)

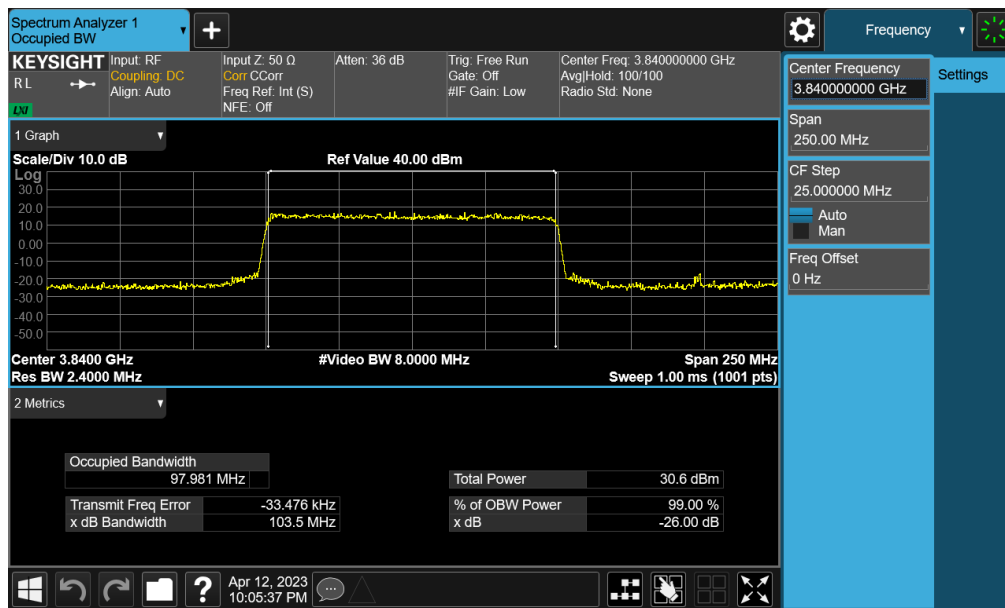


Plot 7-68. Occupied Bandwidth Plot (NR Band n77 PC2 (C-band) - 100MHz QPSK - Full RB - Sub-UHB)

FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-05-R1.PY7	Test Dates: 02/21/2023 - 4/12/2023	EUT Type: Portable Handset	Page 57 of 255

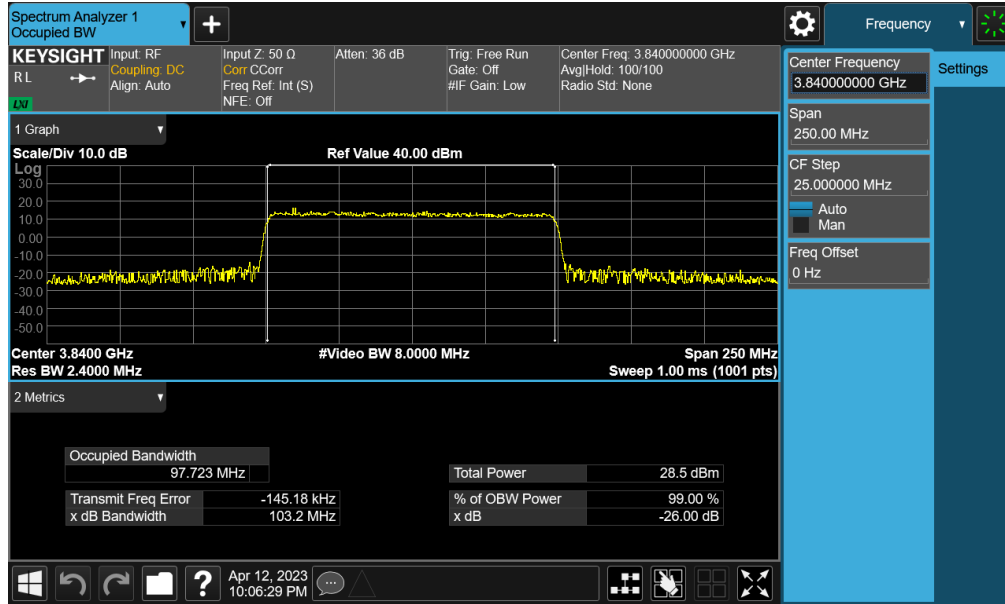


Plot 7-69. Occupied Bandwidth Plot (NR Band n77 PC2 (C-band) - 100MHz 16-QAM - Full RB - Sub-UHB)

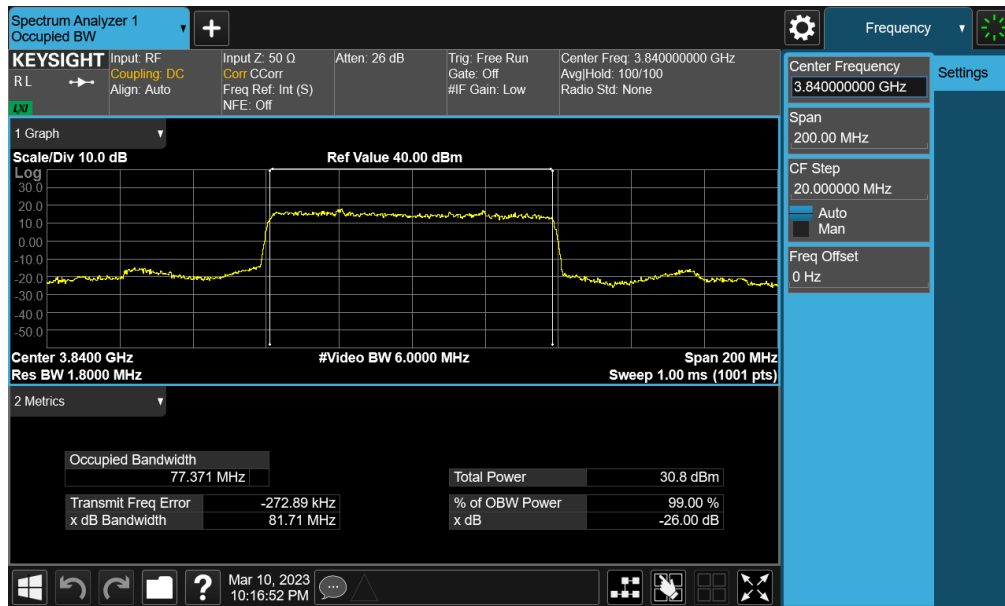


Plot 7-70. Occupied Bandwidth Plot (NR Band n77 PC2 (C-band) - 100MHz 64-QAM - Full RB - Sub-UHB)

FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-05-R1.PY7	Test Dates: 02/21/2023 - 4/12/2023	EUT Type: Portable Handset	Page 58 of 255

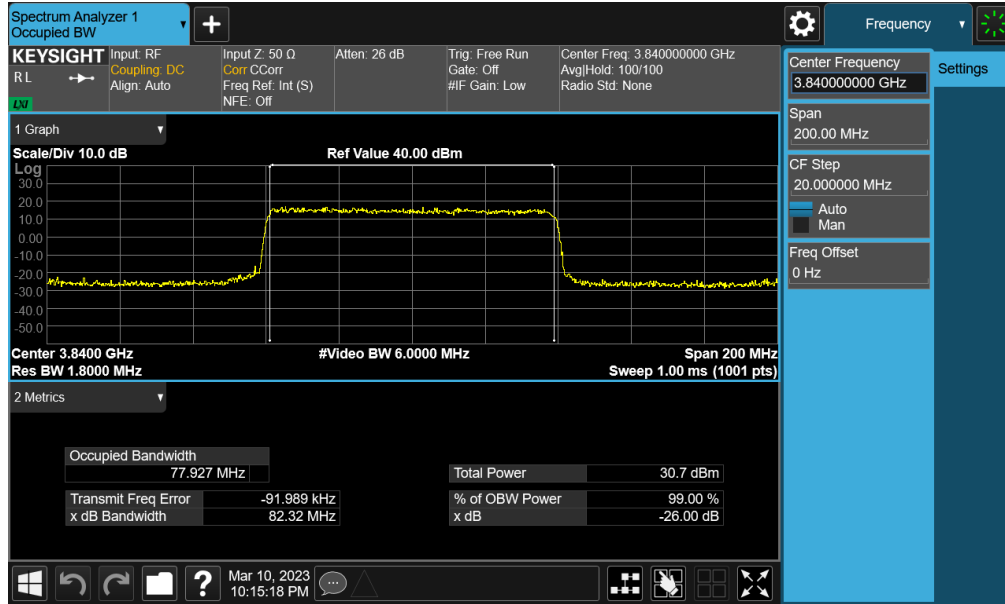


Plot 7-71. Occupied Bandwidth Plot (NR Band n77 PC2 (C-band) - 100MHz 256-QAM - Full RB - Sub-UHB)

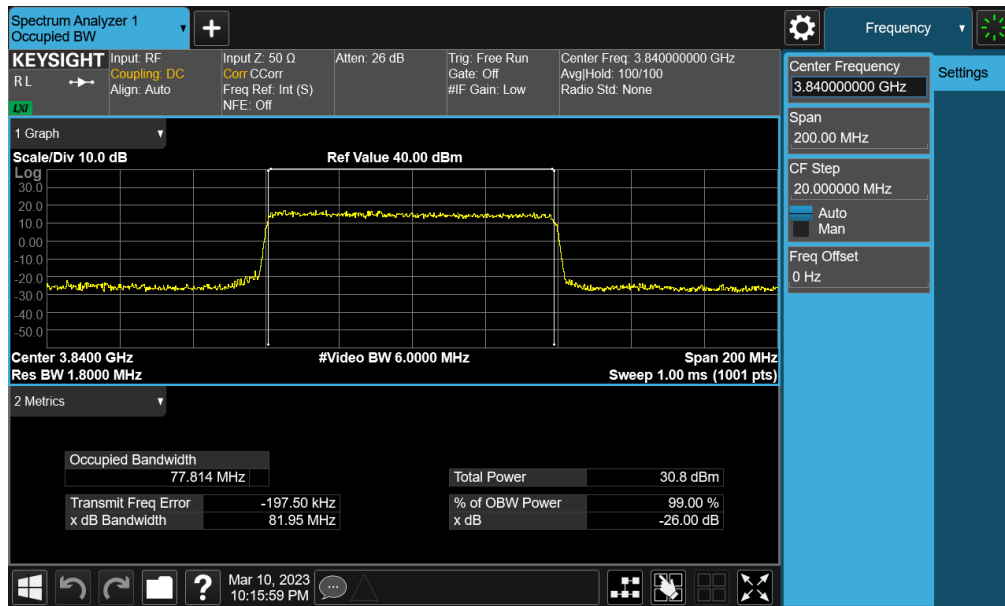


Plot 7-72. Occupied Bandwidth Plot (NR Band n77 PC2 (C-band) - 80MHz π/2 BPSK - Full RB - Sub-UHB)

FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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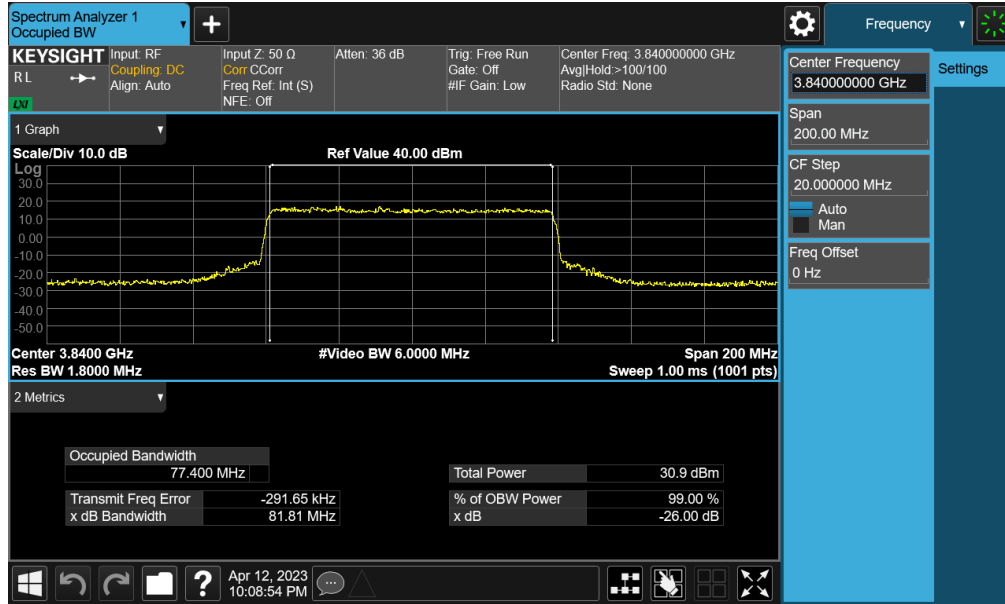


Plot 7-73. Occupied Bandwidth Plot (NR Band n77 PC2 (C-band) - 80MHz QPSK - Full RB - Sub-UHB)

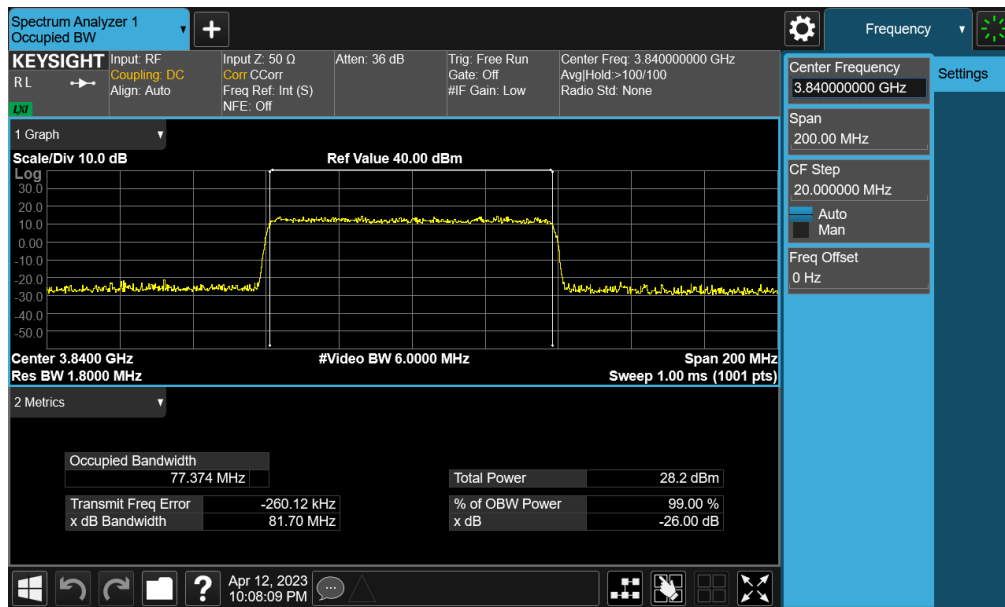


Plot 7-74. Occupied Bandwidth Plot (NR Band n77 PC2 (C-band) - 80MHz 16-QAM - Full RB - Sub-UHB)

FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-75. Occupied Bandwidth Plot (NR Band n77 PC2 (C-band) - 80MHz 64-QAM - Full RB - Sub-UHB)

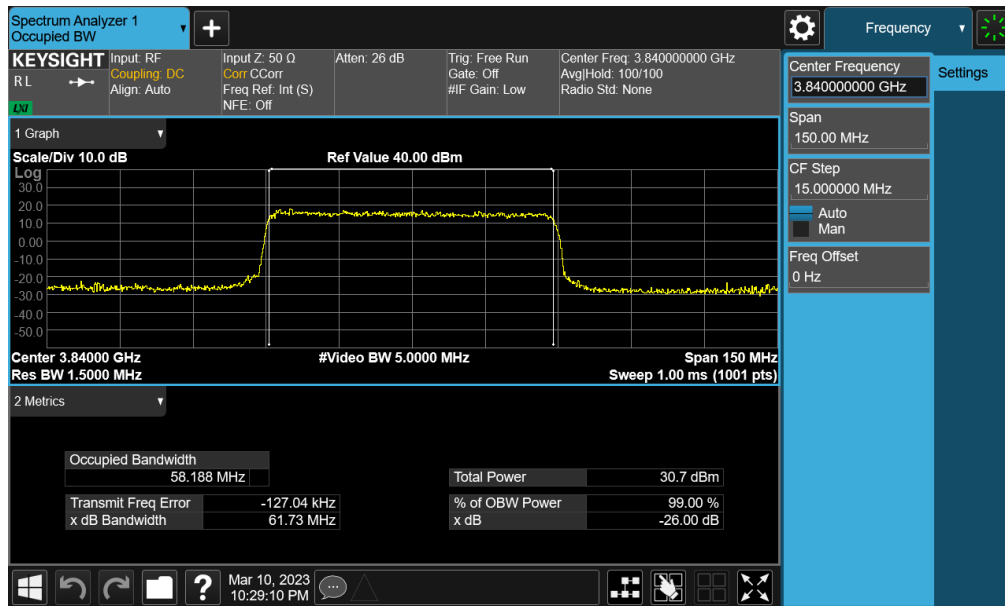


Plot 7-76. Occupied Bandwidth Plot (NR Band n77 PC2 (C-band) - 80MHz 256-QAM - Full RB - Sub-UHB)

FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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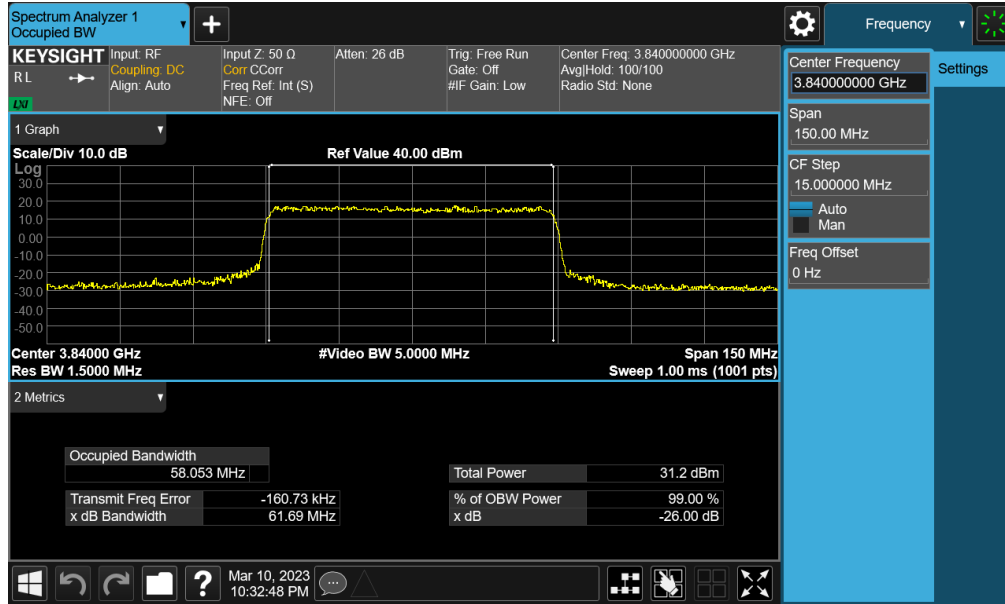


Plot 7-77. Occupied Bandwidth Plot (NR Band n77 PC2 (C-band) - 60MHz $\pi/2$ BPSK - Full RB - Sub-UHB)

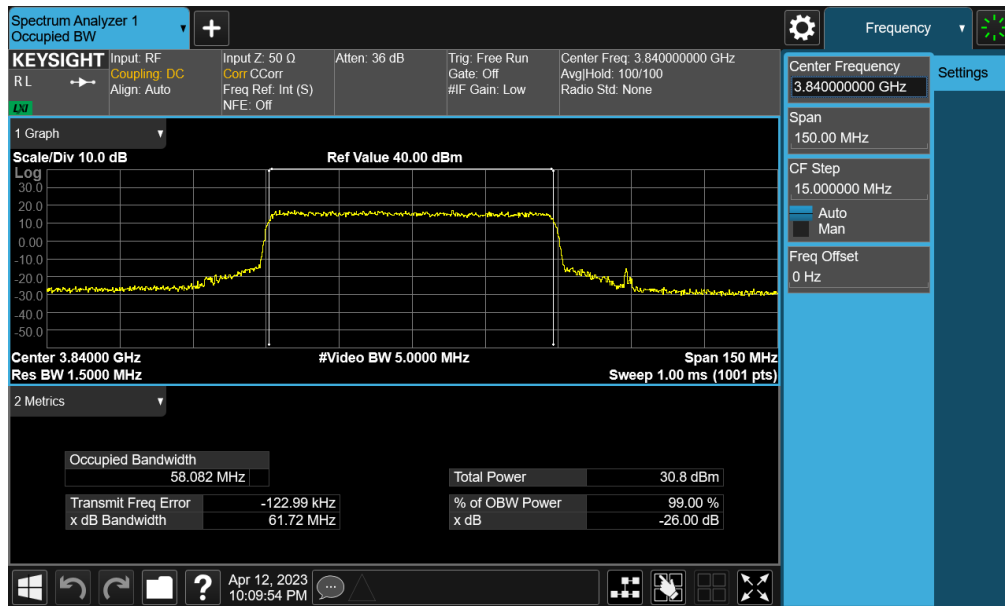


Plot 7-78. Occupied Bandwidth Plot (NR Band n77 PC2 (C-band) - 60MHz QPSK - Full RB - Sub-UHB)

FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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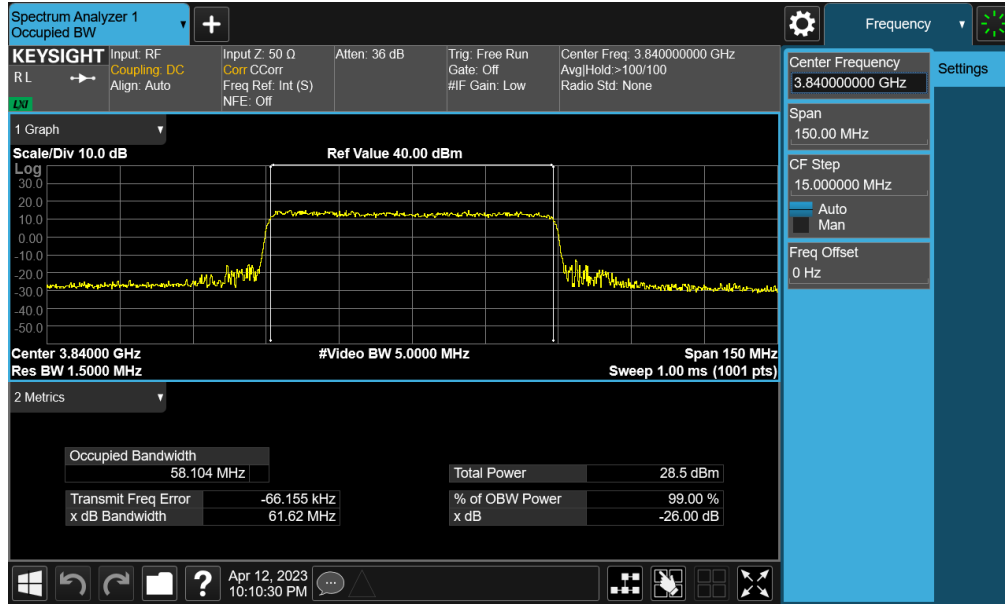


Plot 7-79. Occupied Bandwidth Plot (NR Band n77 PC2 (C-band) - 60MHz 16-QAM - Full RB - Sub-UHB)

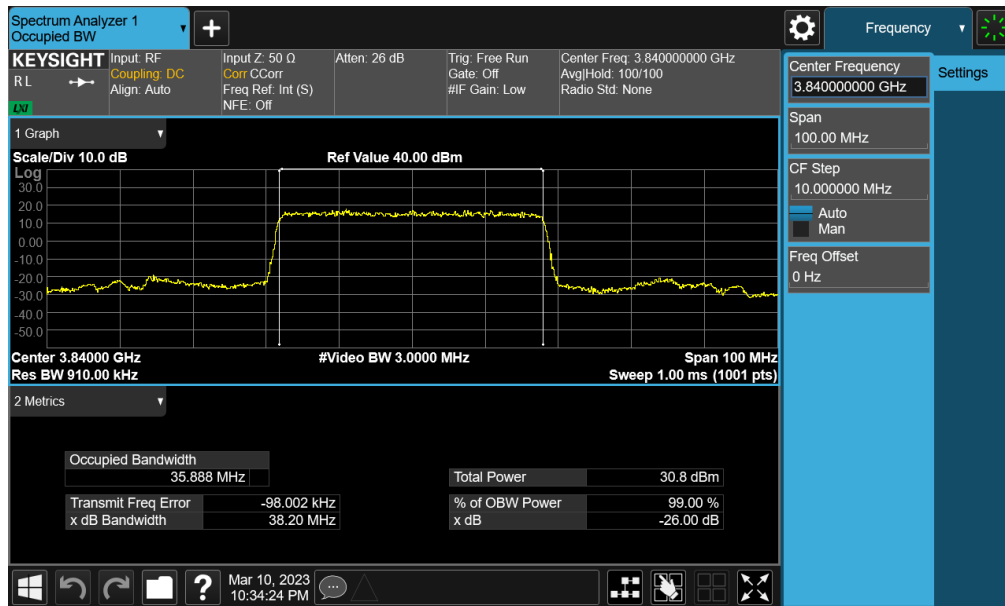


Plot 7-80. Occupied Bandwidth Plot (NR Band n77 PC2 (C-band) - 60MHz 64-QAM - Full RB - Sub-UHB)

FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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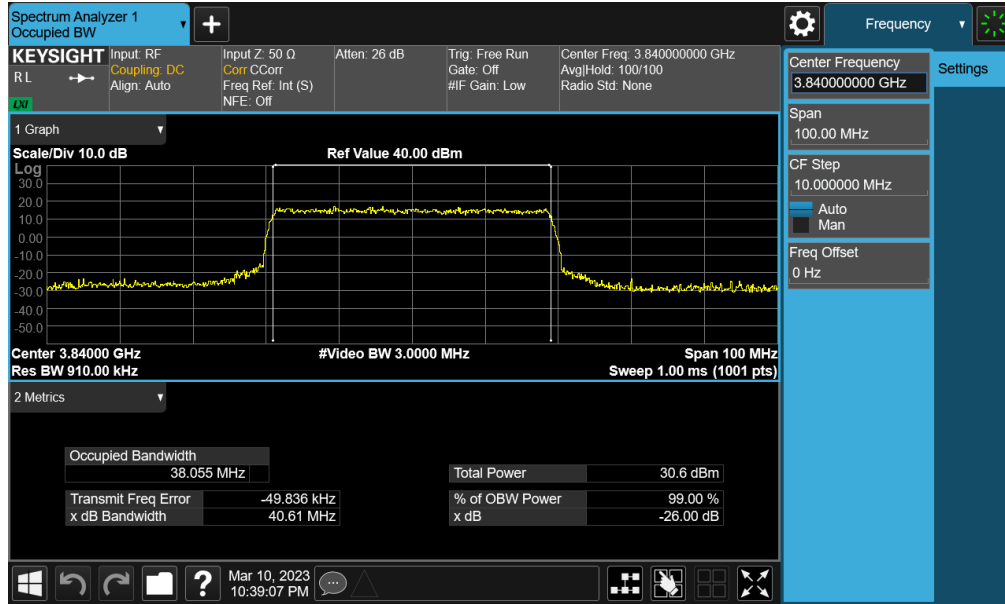


Plot 7-81. Occupied Bandwidth Plot (NR Band n77 PC2 (C-band) - 60MHz 256-QAM - Full RB - Sub-UHB)

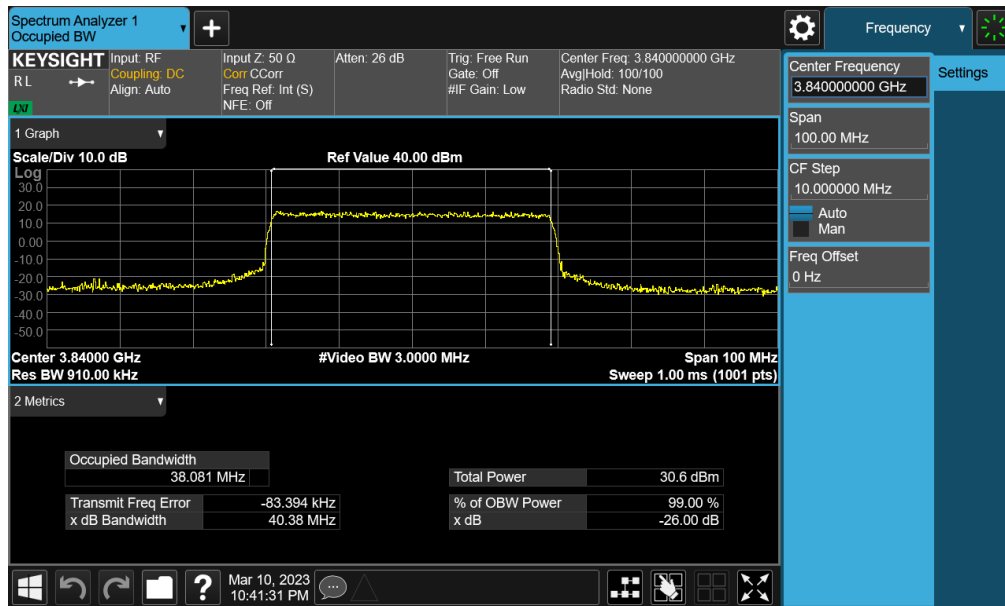


Plot 7-82. Occupied Bandwidth Plot (NR Band n77 PC2 (C-band) - 40MHz $\pi/2$ BPSK - Full RB - Sub-UHB)

FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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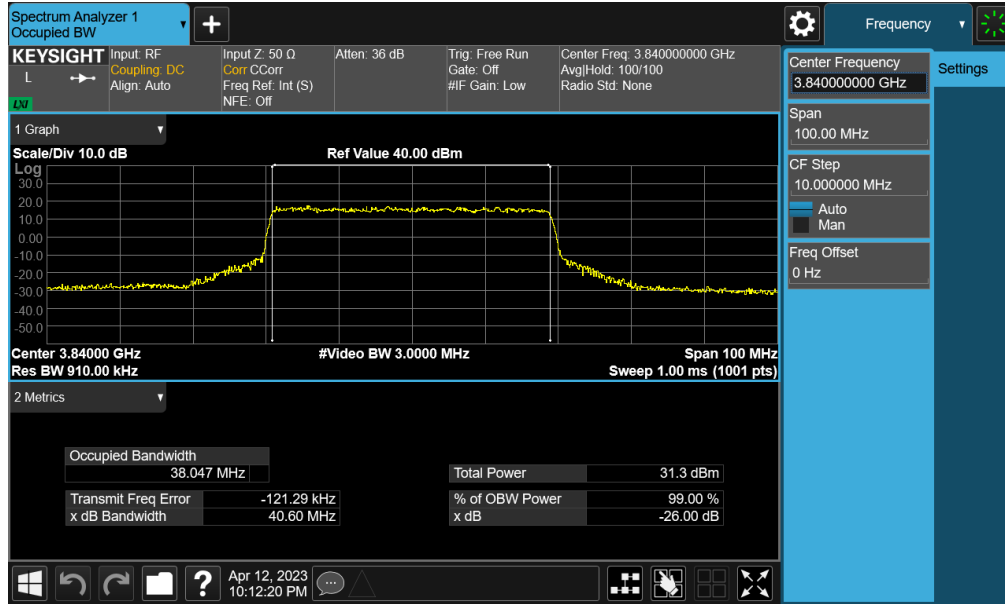


Plot 7-83. Occupied Bandwidth Plot (NR Band n77 PC2 (C-band) - 40MHz QPSK - Full RB - Sub-UHB)

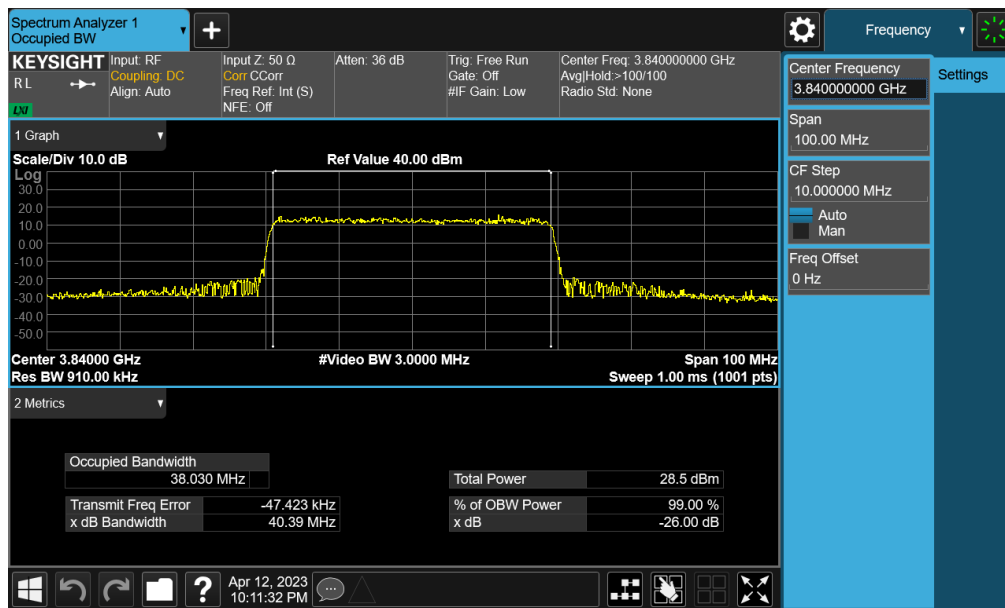


Plot 7-84. Occupied Bandwidth Plot (NR Band n77 PC2 (C-band) - 40MHz 16-QAM - Full RB - Sub-UHB)

FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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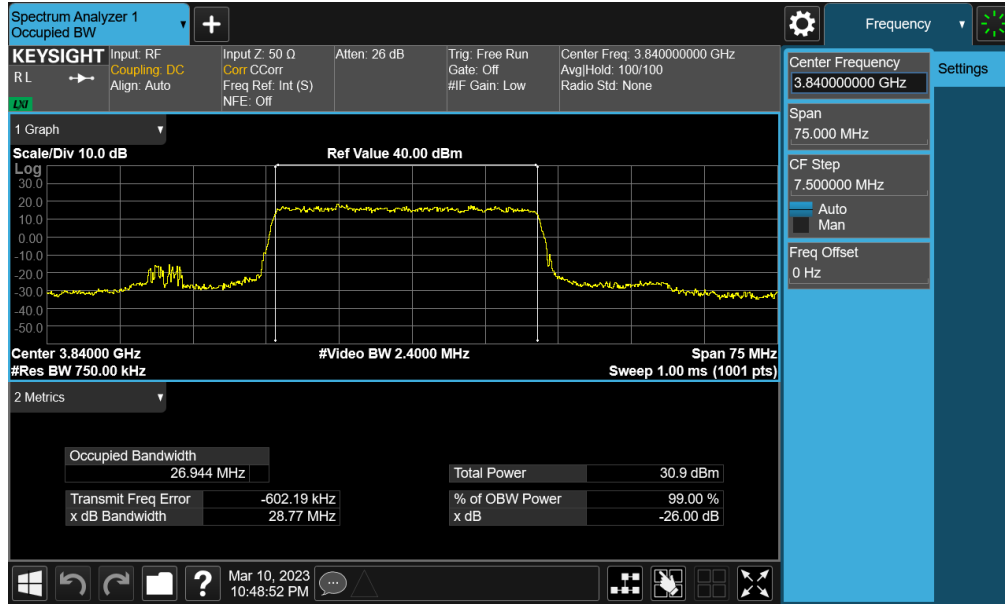


Plot 7-85. Occupied Bandwidth Plot (NR Band n77 PC2 (C-band) - 40MHz 64-QAM - Full RB - Sub-UHB)

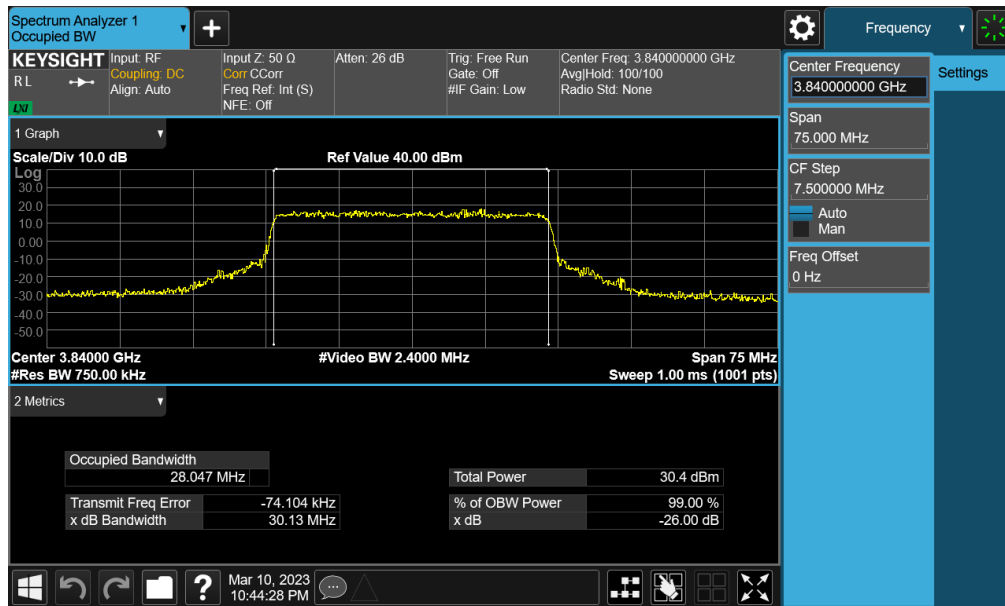


Plot 7-86. Occupied Bandwidth Plot (NR Band n77 PC2 (C-band) - 40MHz 256-QAM - Full RB - Sub-UHB)

FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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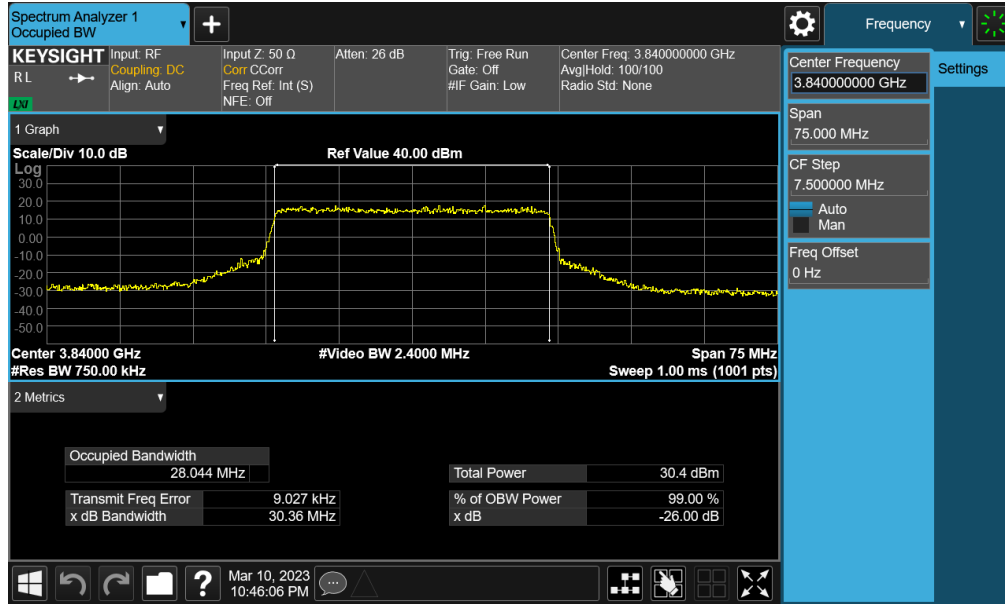


Plot 7-87. Occupied Bandwidth Plot (NR Band n77 PC2 (C-band) - 30MHz $\pi/2$ BPSK - Full RB - Sub-UHB)

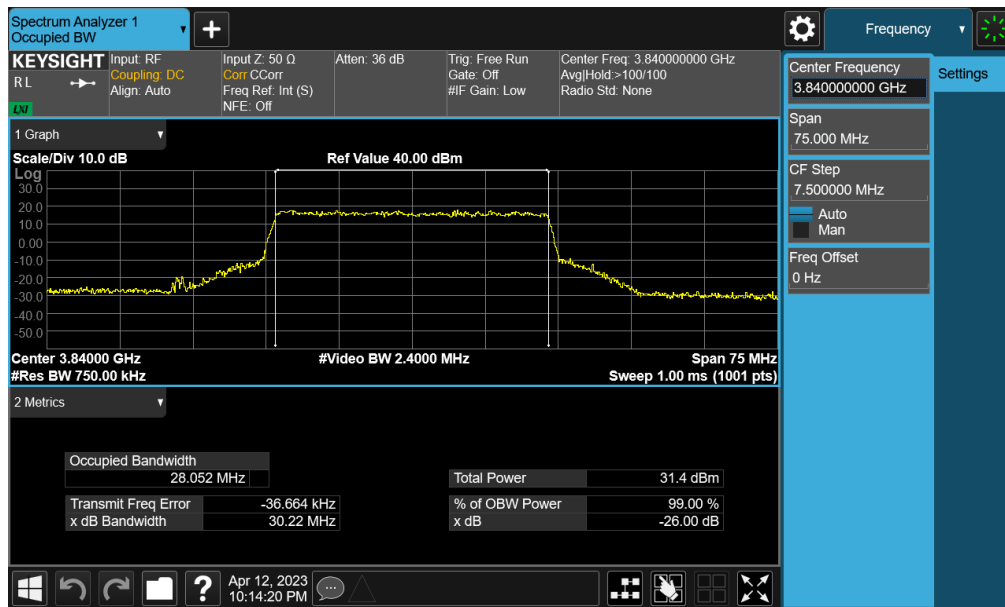


Plot 7-88. Occupied Bandwidth Plot (NR Band n77 PC2 (C-band) - 30MHz QPSK - Full RB - Sub-UHB)

FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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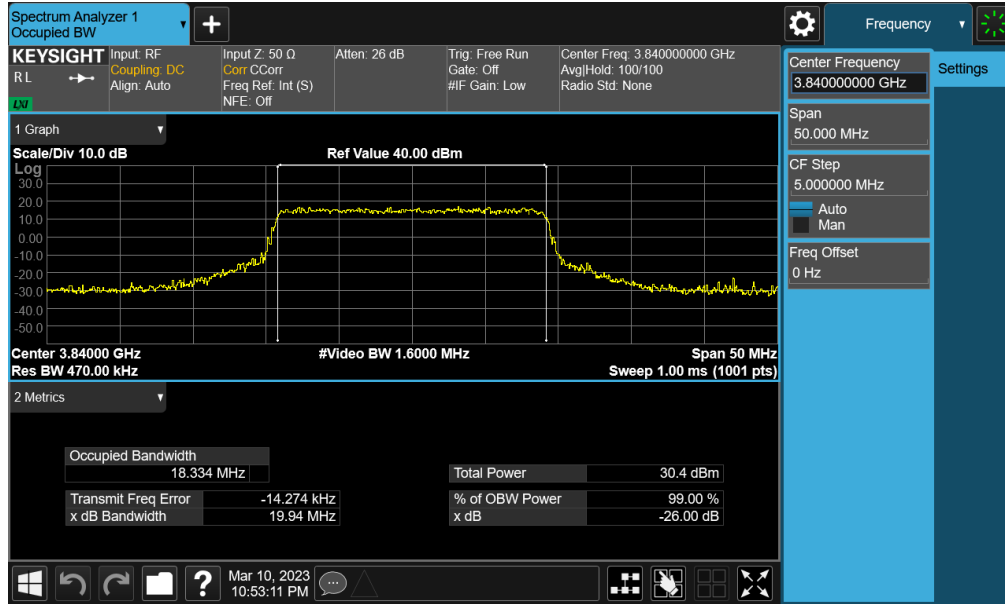


Plot 7-89. Occupied Bandwidth Plot (NR Band n77 PC2 (C-band) - 30MHz 16-QAM - Full RB - Sub-UHB)

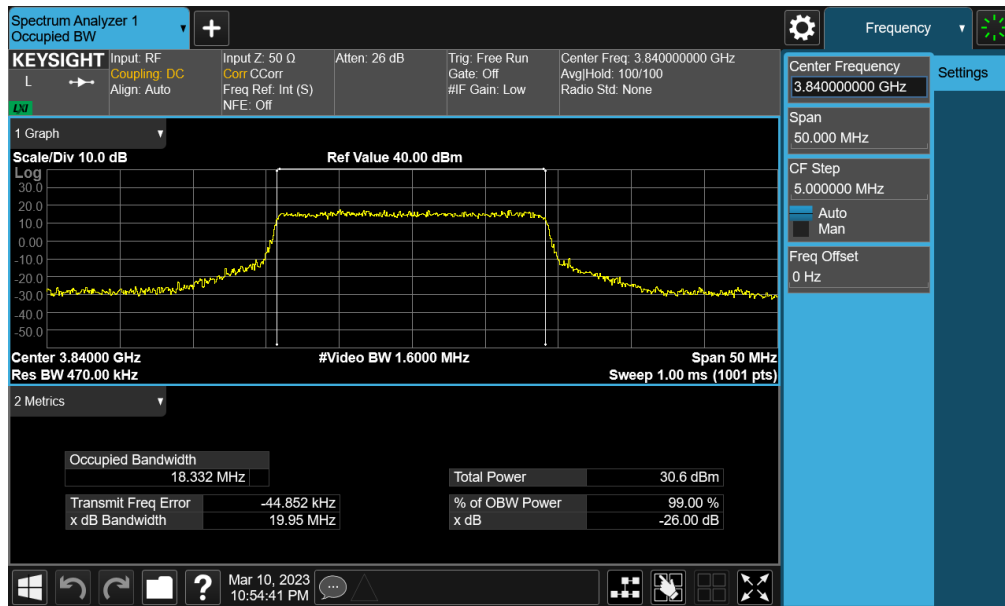


Plot 7-90. Occupied Bandwidth Plot (NR Band n77 PC2 (C-band) - 30MHz 64-QAM - Full RB - Sub-UHB)

FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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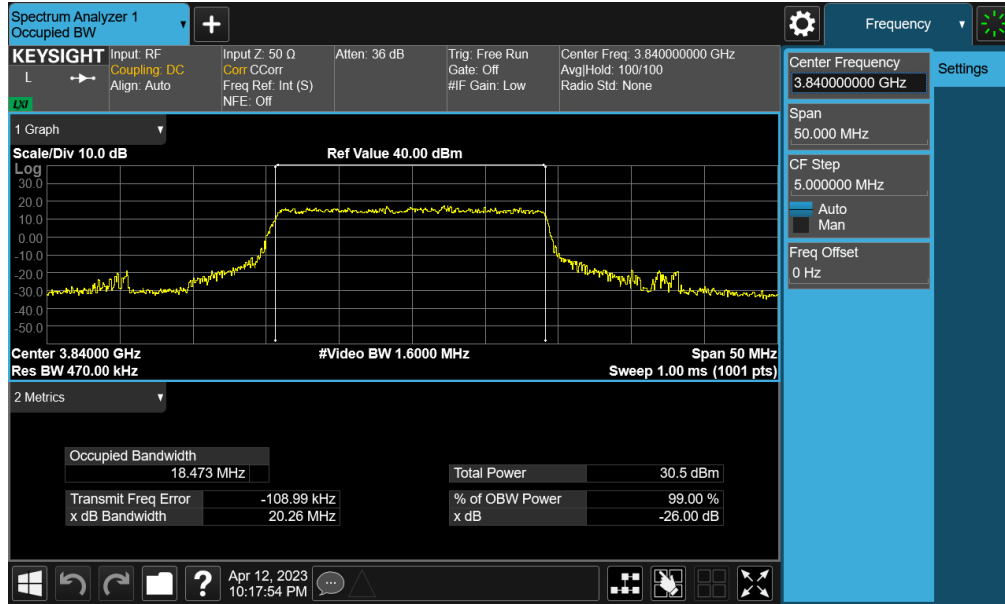


Plot 7-93. Occupied Bandwidth Plot (NR Band n77 PC2 (C-band) - 20MHz QPSK - Full RB - Sub-UHB)

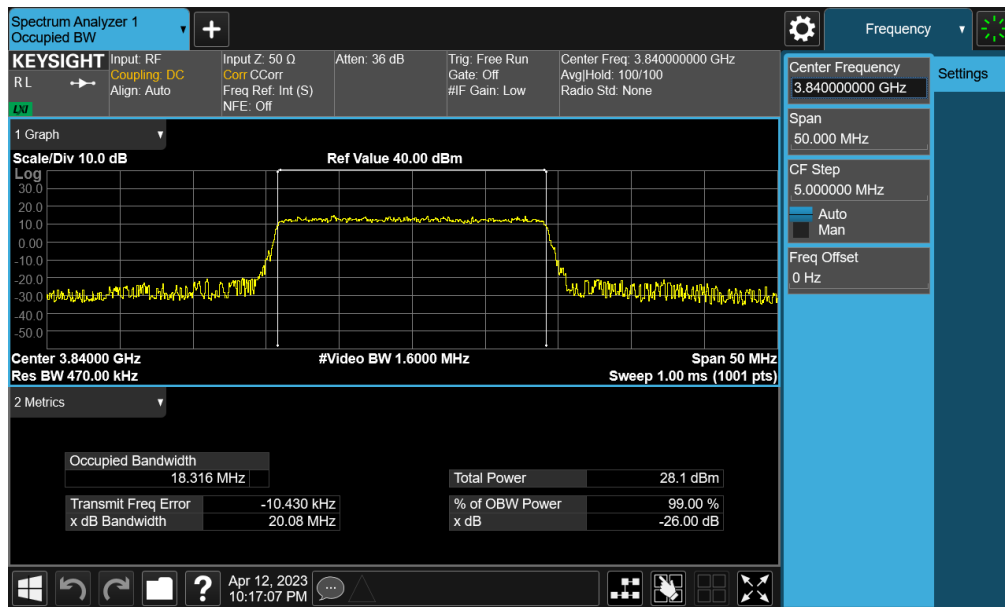


Plot 7-94. Occupied Bandwidth Plot (NR Band n77 PC2 (C-band) - 20MHz 16-QAM - Full RB - Sub-UHB)

FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-95. Occupied Bandwidth Plot (NR Band n77 PC2 (C-band) - 20MHz 64-QAM - Full RB - Sub-UHB)



Plot 7-96. Occupied Bandwidth Plot (NR Band n77 PC2 (C-band) - 20MHz 256-QAM - Full RB - Sub-UHB)

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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 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 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.

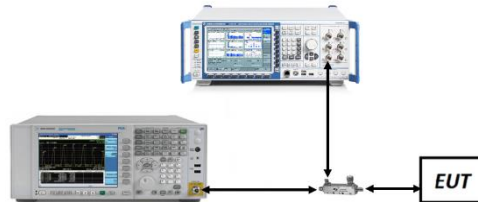


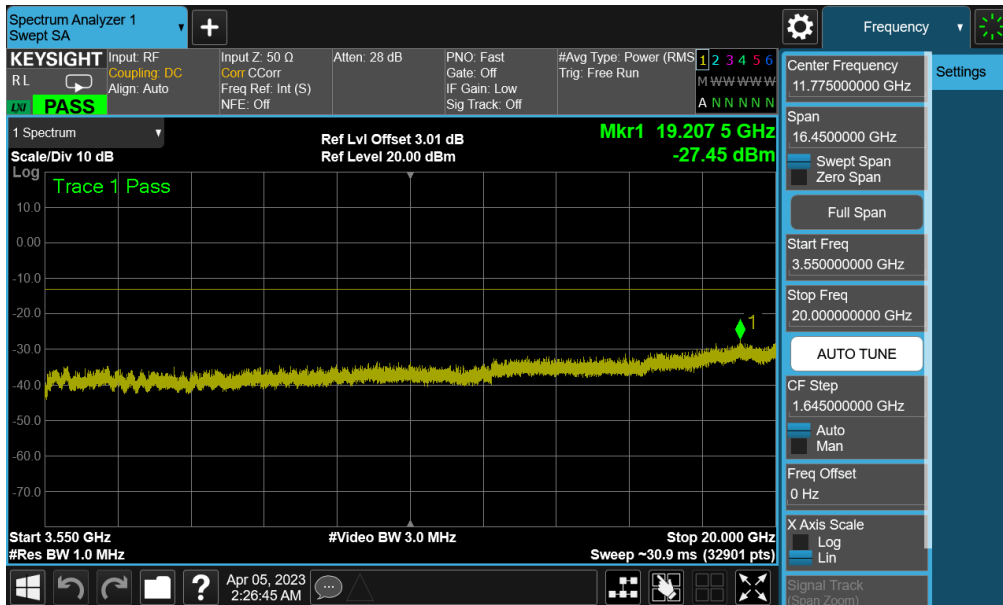
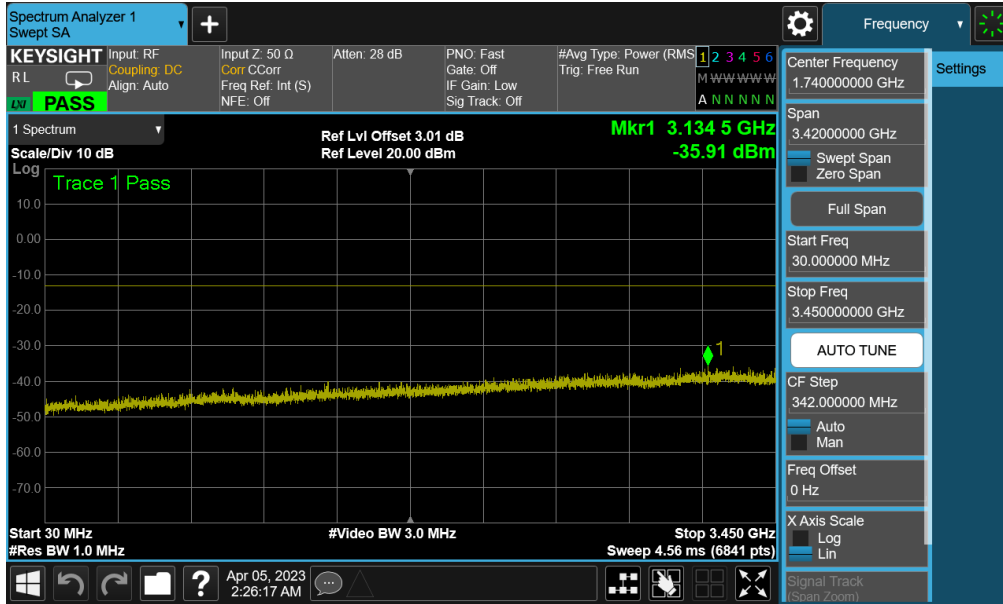
Figure 7-3. Test Instrument & Measurement Setup

Test Notes

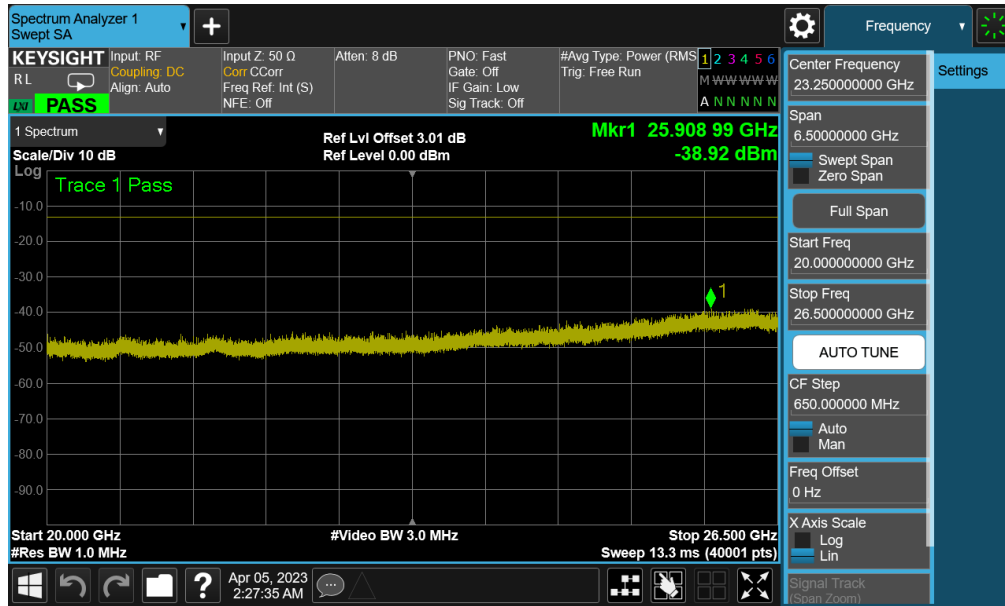
1. Per Part 27.53(l) and Part 27.53(n), compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz.
2. For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g., CP-OFDM and DFT-s-OFDM) were investigated to determine the worst-case configuration. All modes of operation were investigated, and the worst-case configuration results are reported in this section.
3. In this section, the UL-MIMO NR band n77 (Main1+Sub-UHB) and SRS 2T4R NR band n77 (3rd-LMHB+4th-MHB) plots have a 3dB correction applied to the individual plots to address the MIMO requirements in ANSI C63.26.
4. Conducted spurious emissions above 26.5GHz for Main1 are covered by the radiated spurious emissions measurements.

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NR Band n77 PC3 (DoD) – Main1 (UL-MIMO)



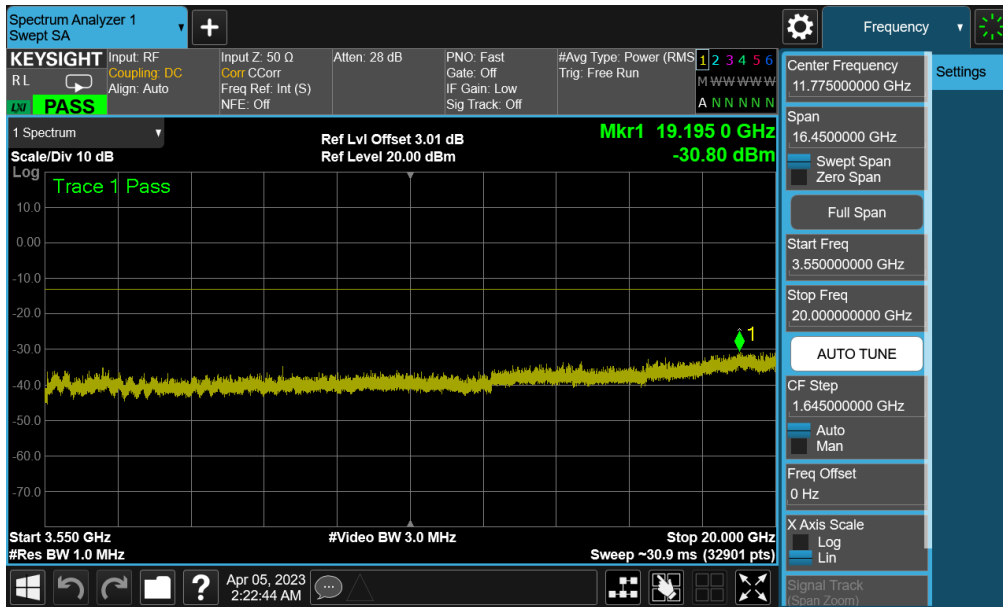
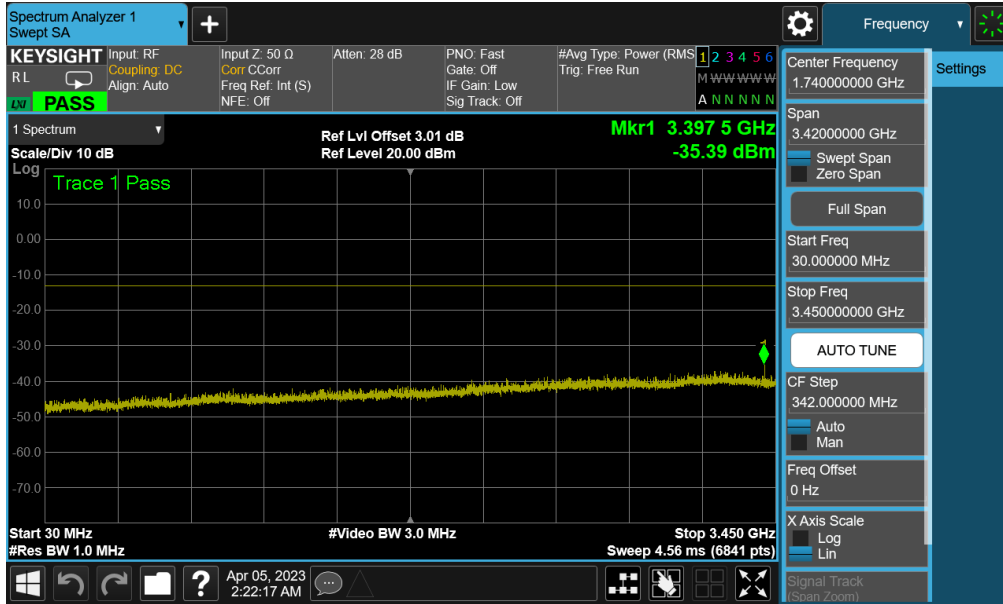
FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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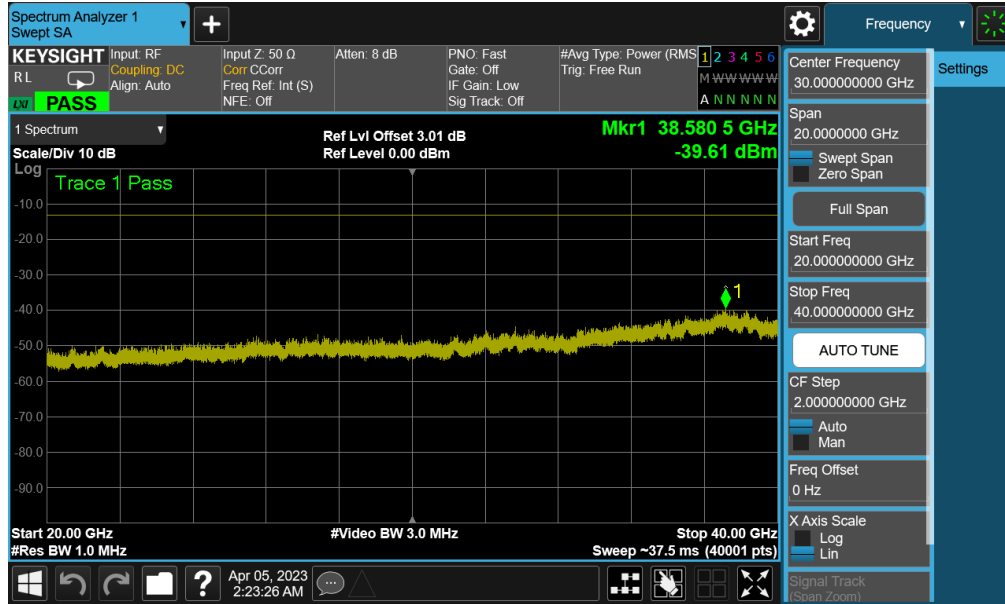
Plot 7-99. Conducted Spurious Plot (NR Band n77 PC3 (DoD) - 100MHz QPSK - 1RB - Mid Channel - Main1 (UL-MIMO))

FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n77 PC3 (DoD) – Sub-UHB (UL-MIMO)



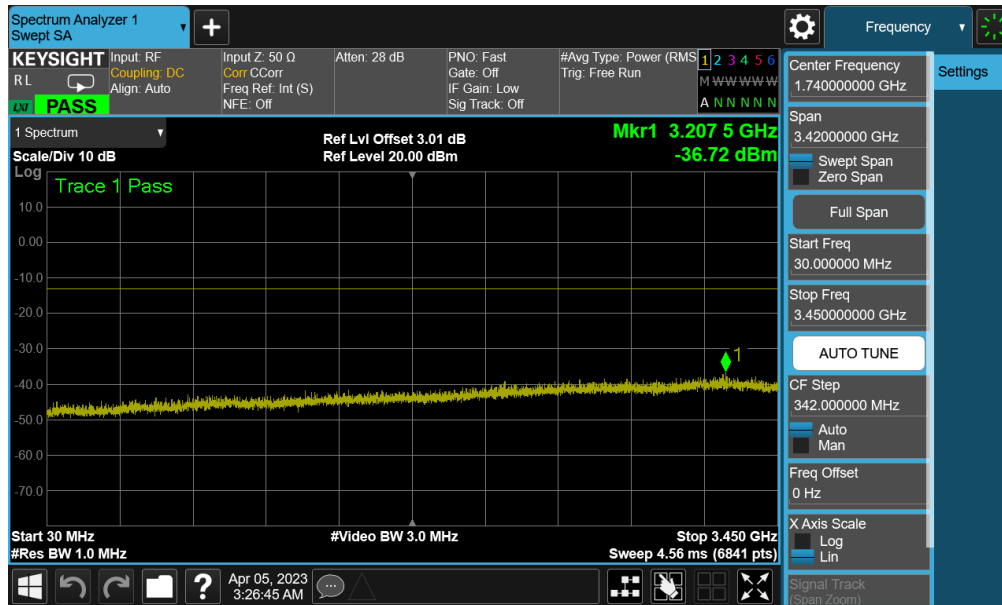
FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-05-R1.PY7	Test Dates: 02/21/2023 - 4/12/2023	EUT Type: Portable Handset	Page 75 of 255



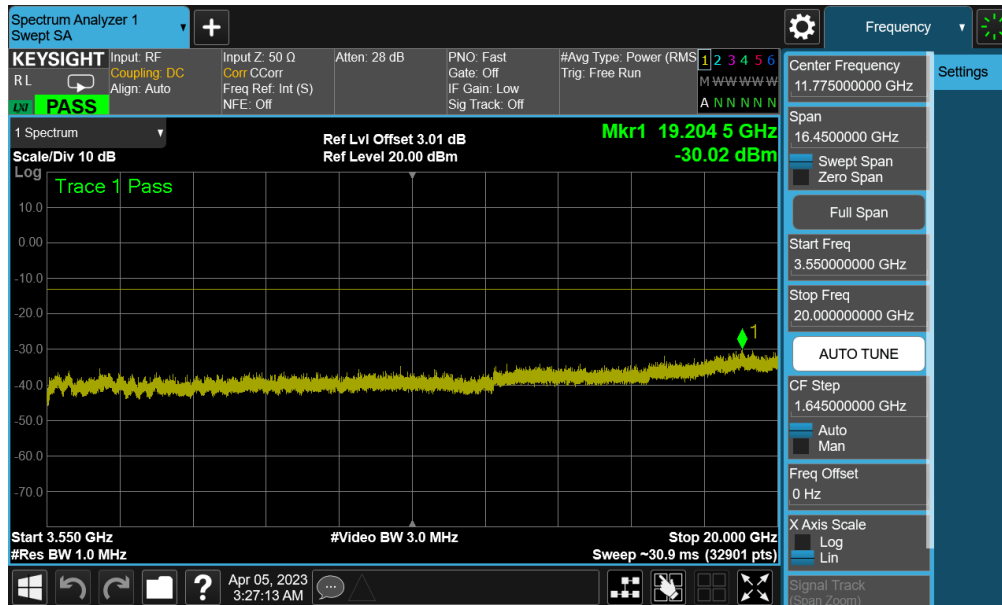
Plot 7-102. Conducted Spurious Plot (NR Band n77 PC3 (DoD) - 100MHz QPSK - 1RB - Mid Channel - Sub-UHB (UL-MIMO))

FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n77 PC3 (DoD) – 3rd-LMHB (SRS 2T4R)

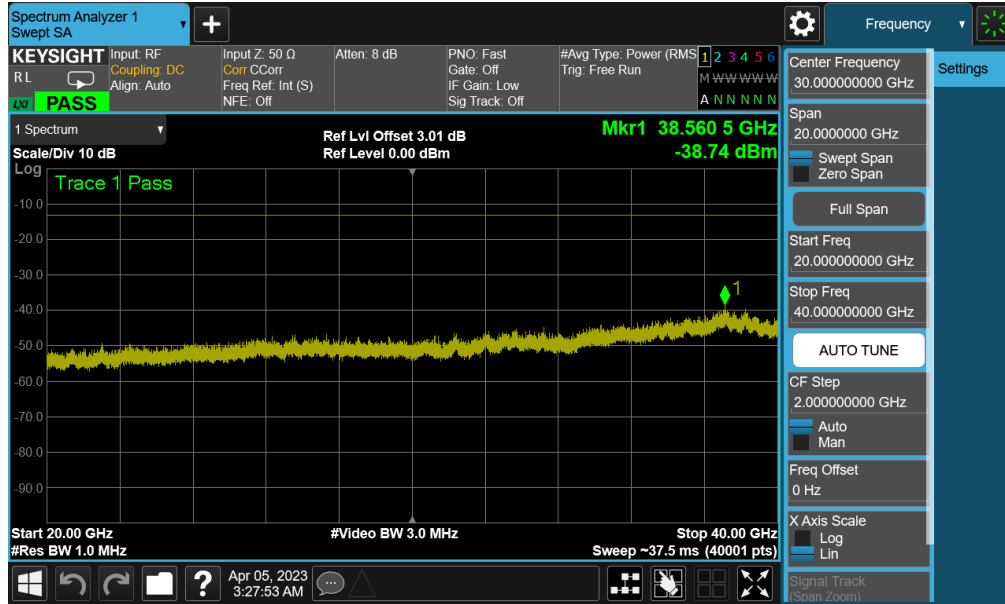


Plot 7-103. Conducted Spurious Plot (NR Band n77 (DoD) - 100MHz QPSK - 1RB - Mid Channel - 3rd-LMHB (SRS 2T4R))



Plot 7-104. Conducted Spurious Plot (NR Band n77 (DoD) - 100MHz QPSK - 1RB - Mid Channel - 3rd-LMHB (SRS 2T4R))

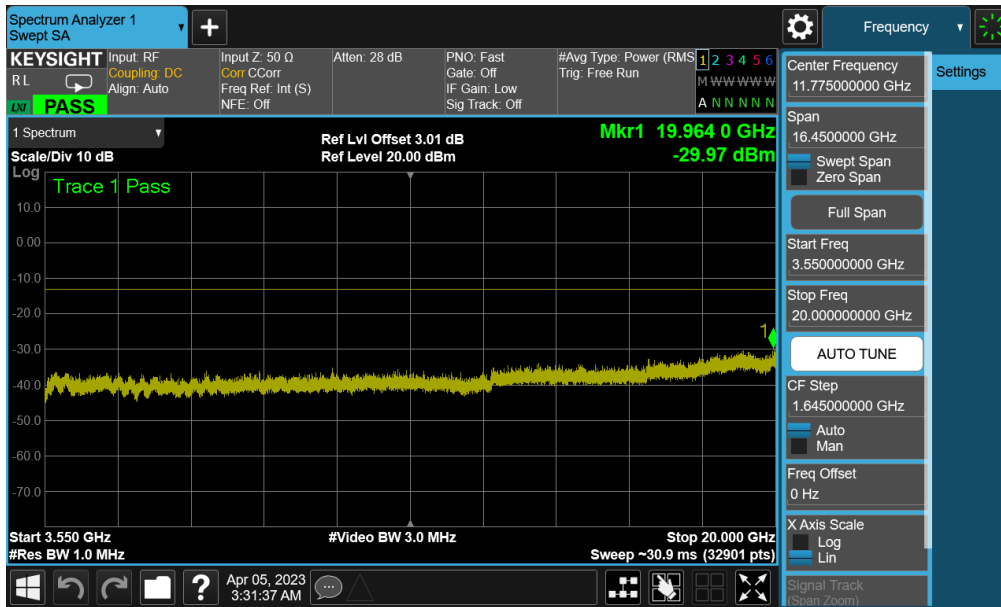
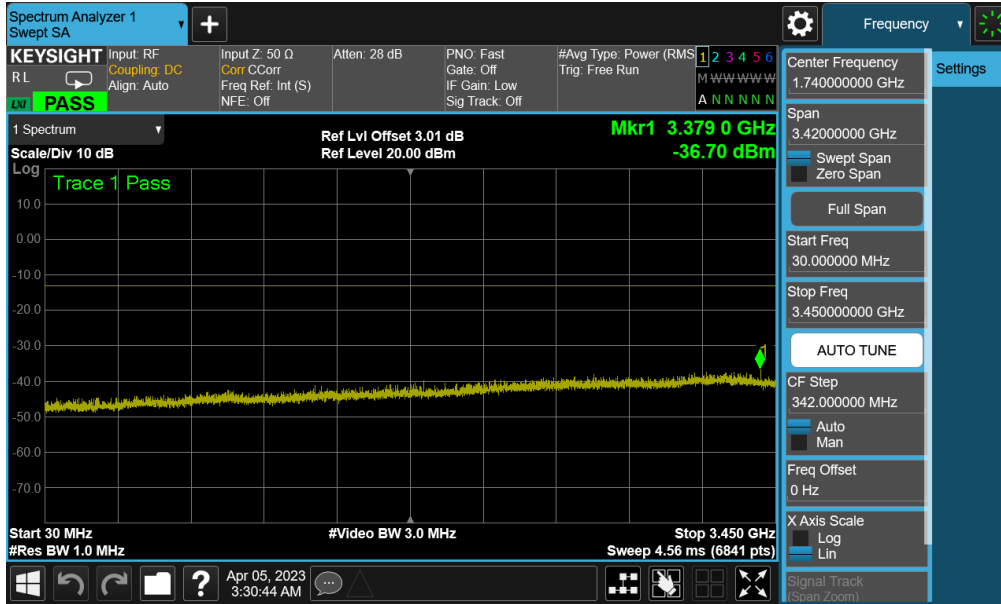
FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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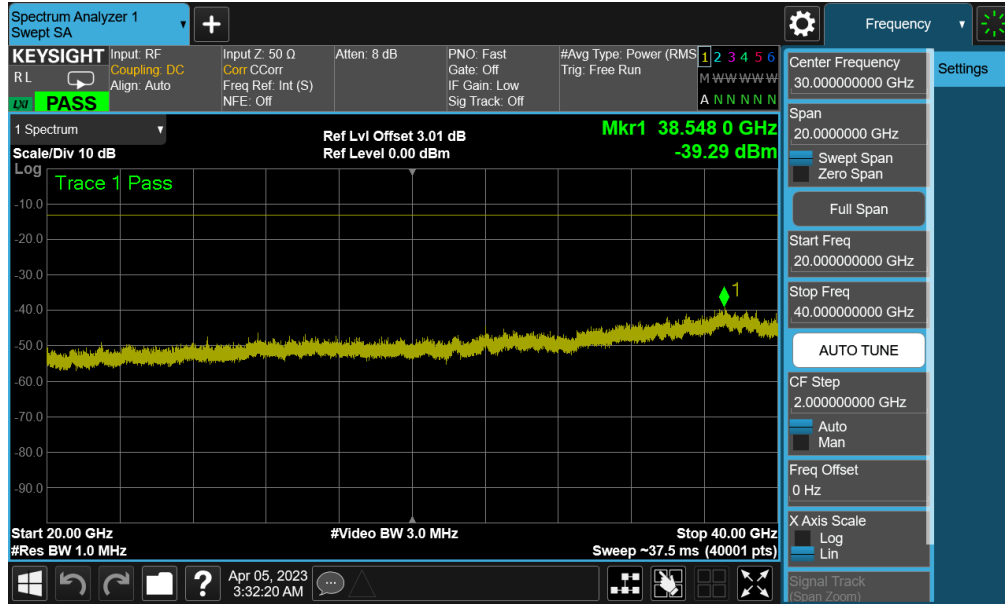
Plot 7-105. Conducted Spurious Plot (NR Band n77 (DoD) - 100MHz QPSK - 1RB - Mid Channel - 3rd-LMHB (SRS 2T4R))

FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n77 PC3 (DoD) – 4th-MHB (SRS 2T4R)



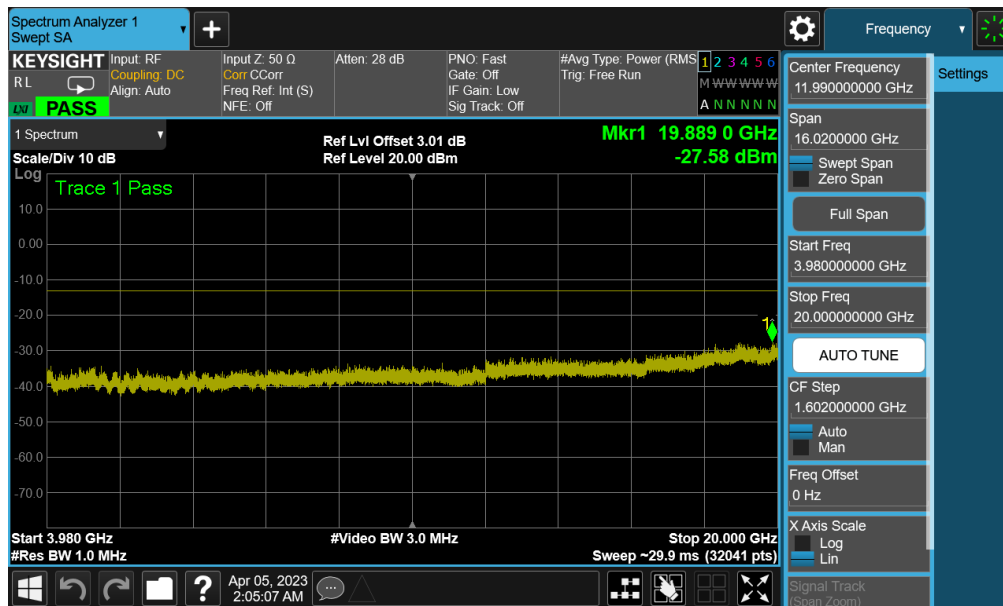
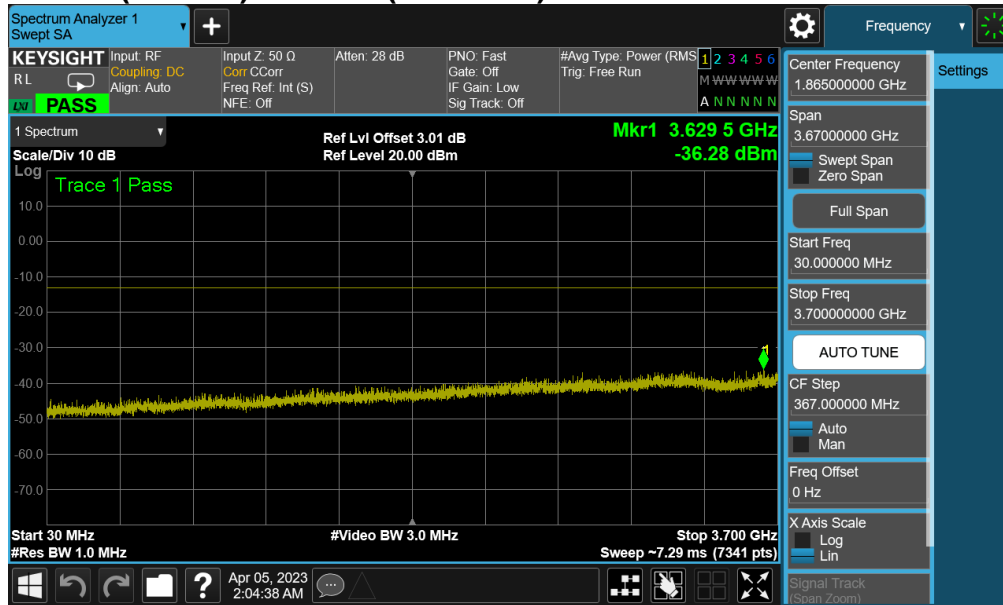
FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-108. Conducted Spurious Plot (NR Band n77 PC3 (DoD) - 100MHz QPSK - 1RB - Mid Channel - 4th-MHB (SRS 2T4R))

FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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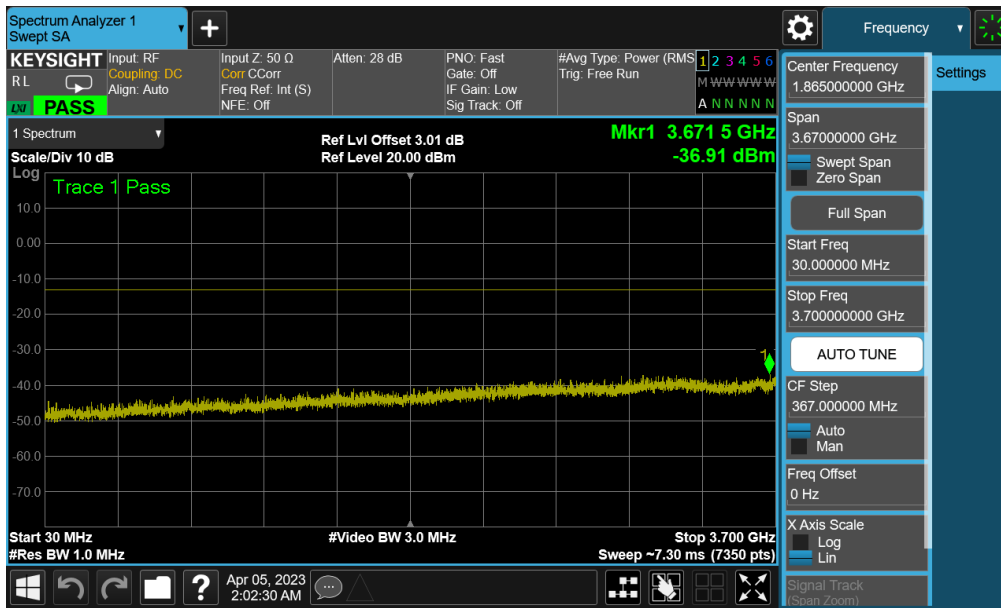
NR Band n77 PC3 (C-band) – Main1 (UL-MIMO)



FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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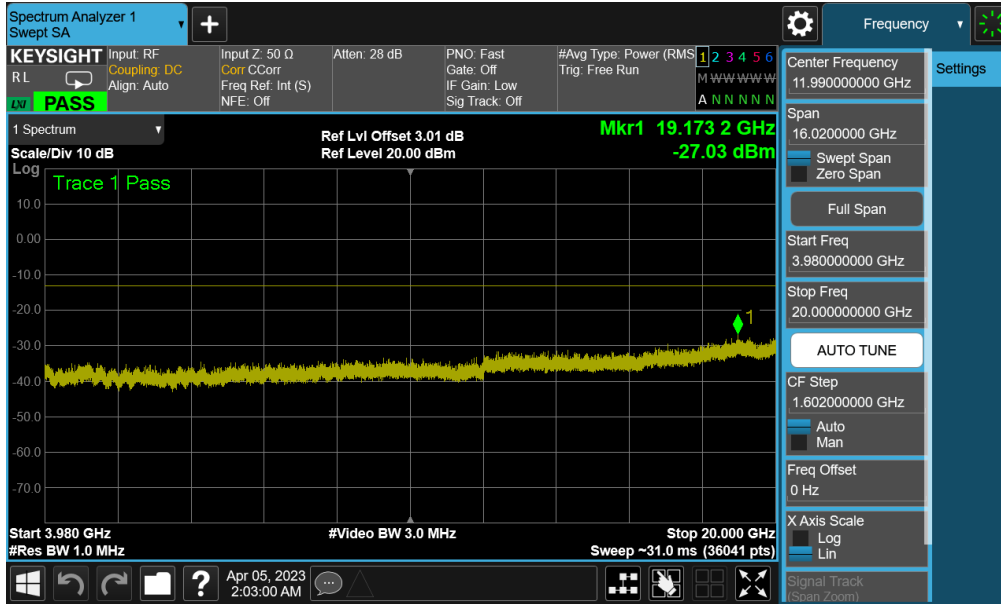


Plot 7-111. Conducted Spurious Plot (NR Band n77 PC3 (C-band) - 100MHz QPSK - 1RB - Low Channel - Main1 (UL-MIMO))

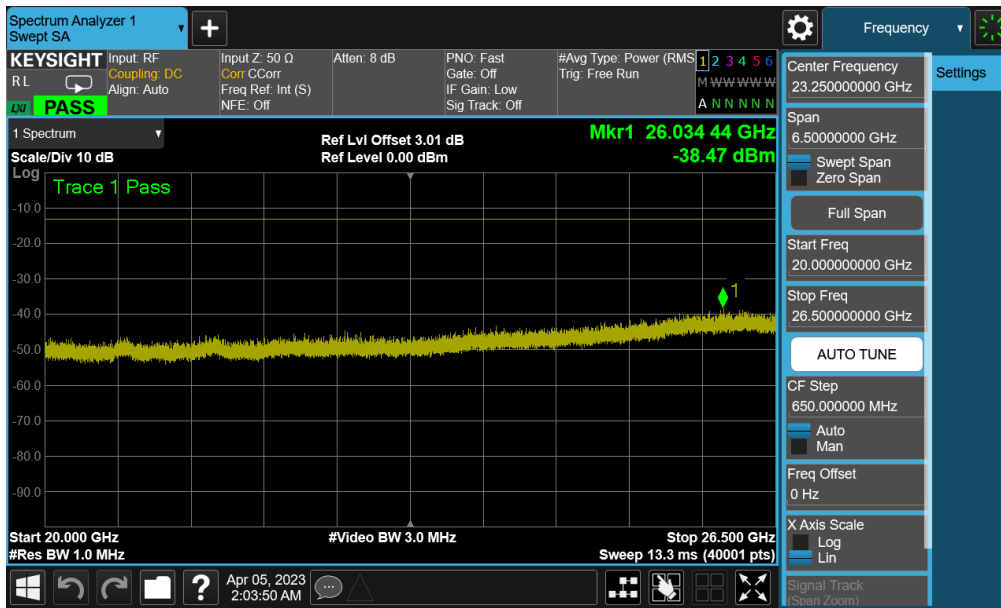


Plot 7-112. Conducted Spurious Plot (NR Band n77 PC3 (C-band) - 100MHz QPSK - 1RB - Mid Channel - Main1 (UL-MIMO))

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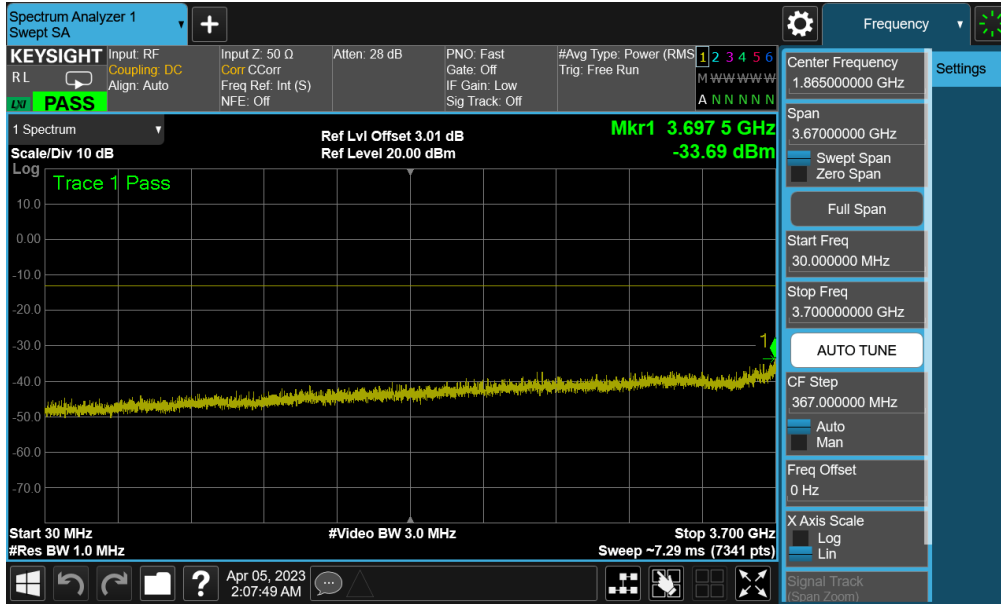


Plot 7-113. Conducted Spurious Plot (NR Band n77 PC3 (C-band) - 100MHz QPSK - 1RB - Mid Channel - Main1 (UL-MIMO))

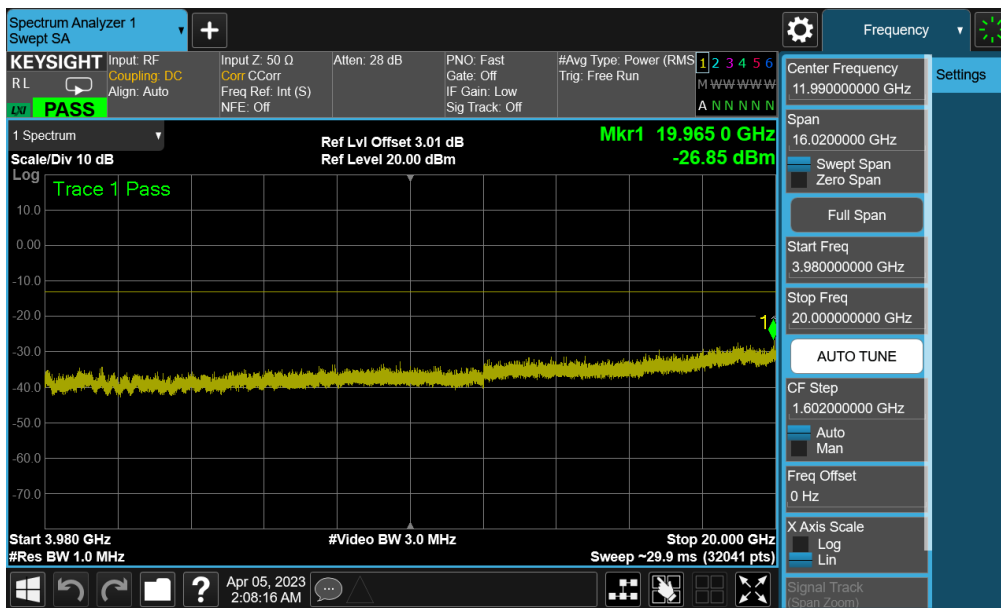


Plot 7-114. Conducted Spurious Plot (NR Band n77 PC3 (C-band) - 100MHz QPSK - 1RB - Mid Channel - Main1 (UL-MIMO))

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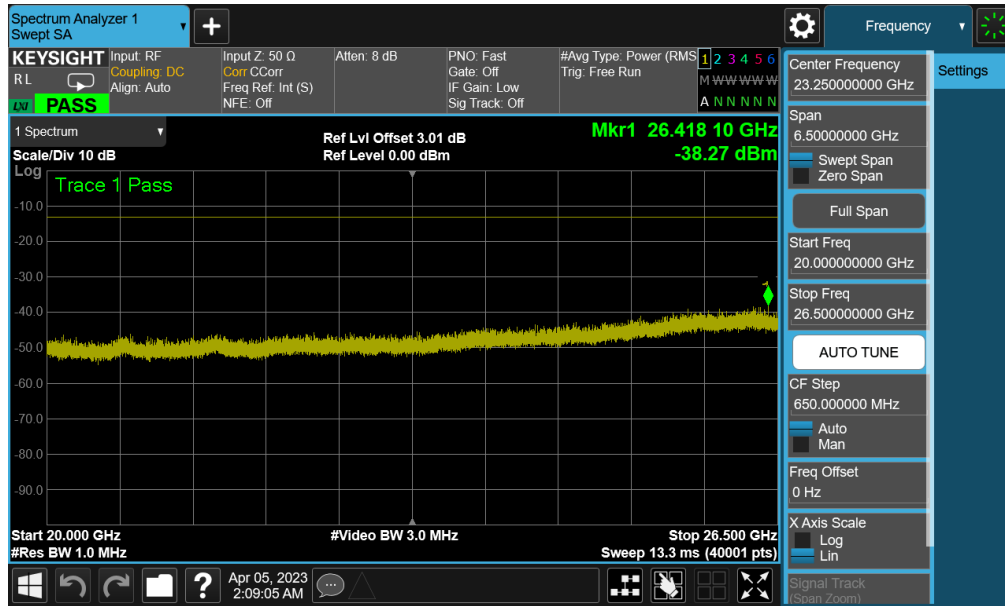


Plot 7-115. Conducted Spurious Plot (NR Band n77 PC3 (C-band) - 100MHz QPSK - 1RB - High Channel - Main1 (UL-MIMO))



Plot 7-116. Conducted Spurious Plot (NR Band n77 PC3 (C-band) - 100MHz QPSK - 1RB - High Channel - Main1 (UL-MIMO))

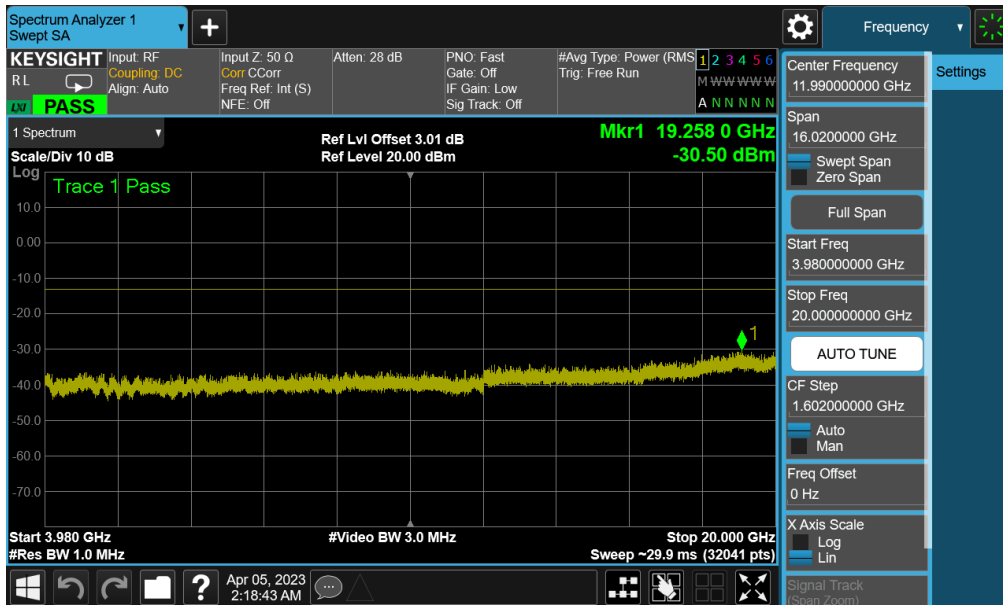
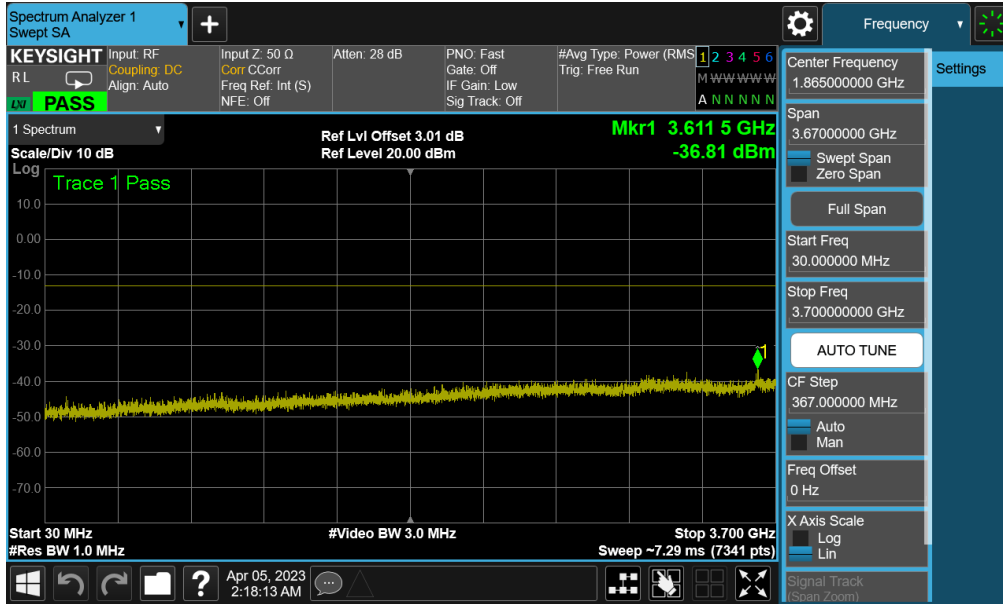
FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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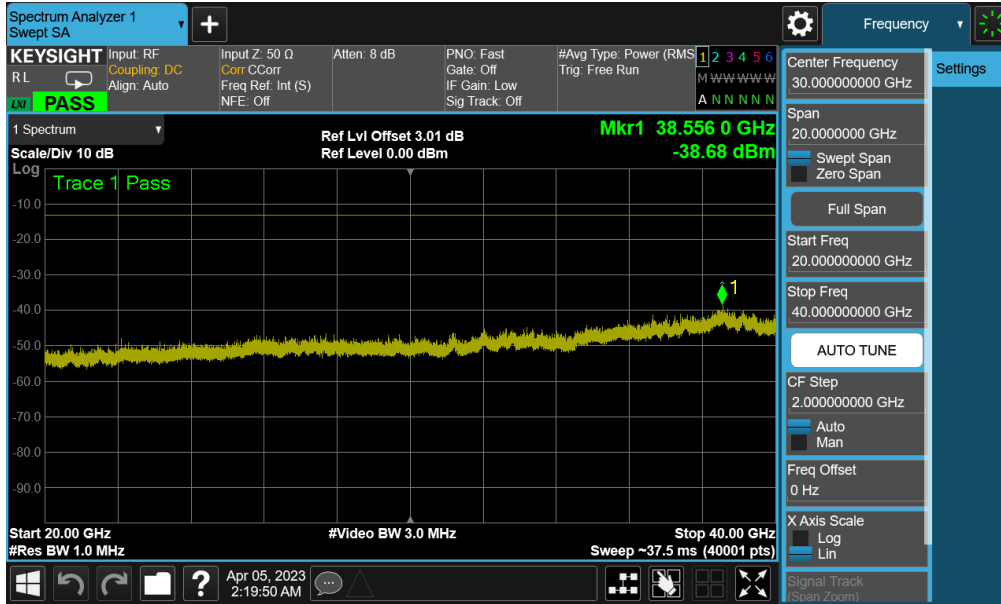
Plot 7-117. Conducted Spurious Plot (NR Band n77 PC3 (C-band) - 100MHz QPSK - 1RB - High Channel - Main1 (UL-MIMO))

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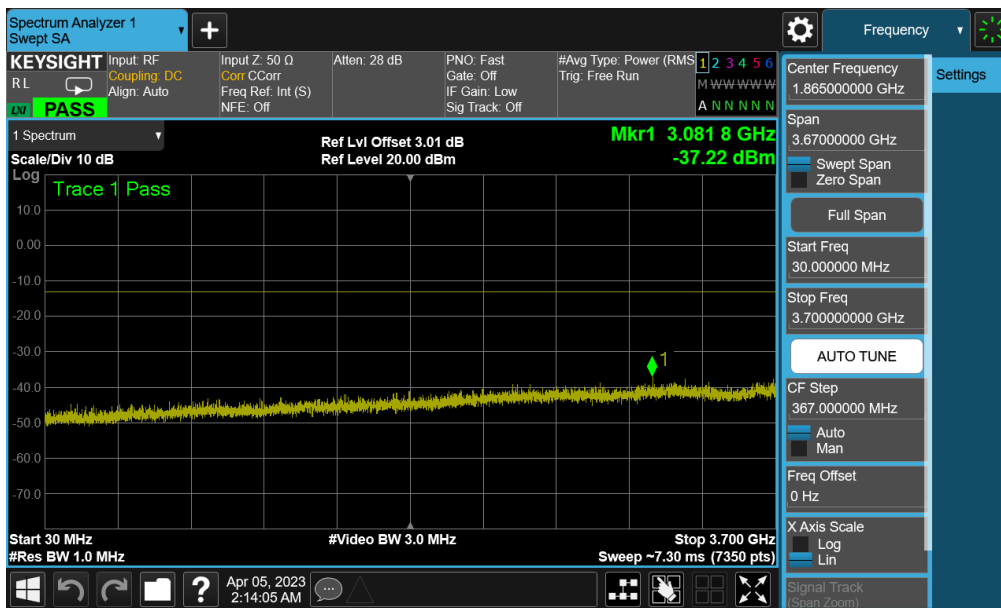
NR Band n77 PC3 (C-band) – Sub-UHB (UL-MIMO)



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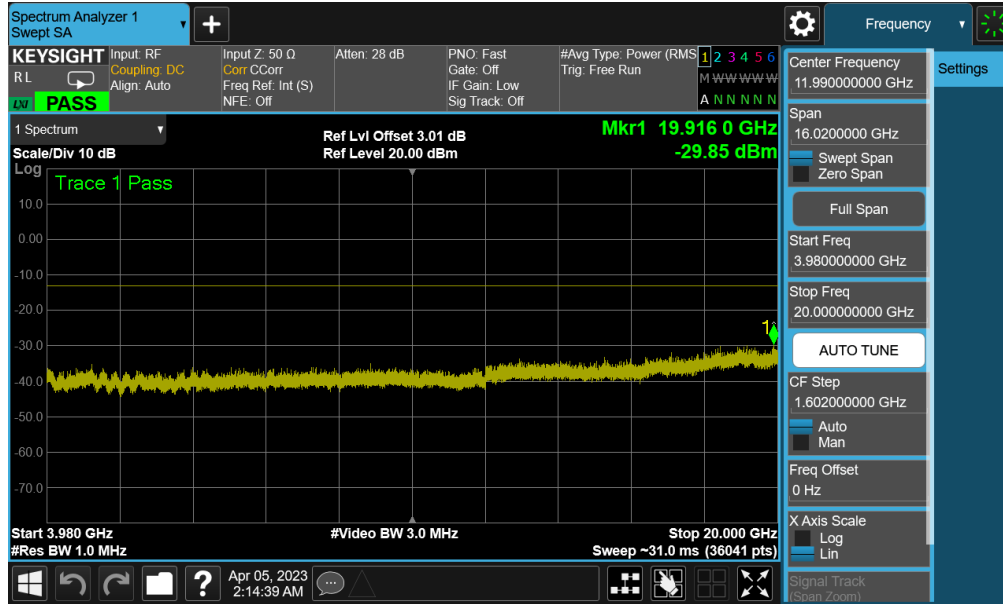


Plot 7-120. Conducted Spurious Plot (NR Band n77 PC3 (C-band) - 100MHz QPSK - 1RB - Low Channel - Sub-UHB (UL-MIMO))

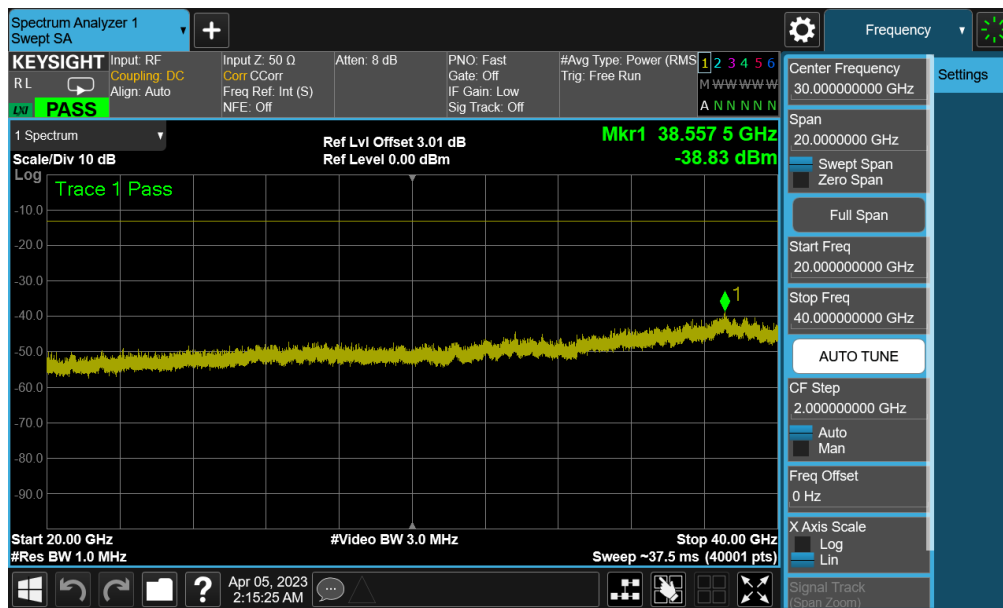


Plot 7-121. Conducted Spurious Plot (NR Band n77 PC3 (C-band) - 100MHz QPSK - 1RB - Mid Channel - Sub-UHB (UL-MIMO))

FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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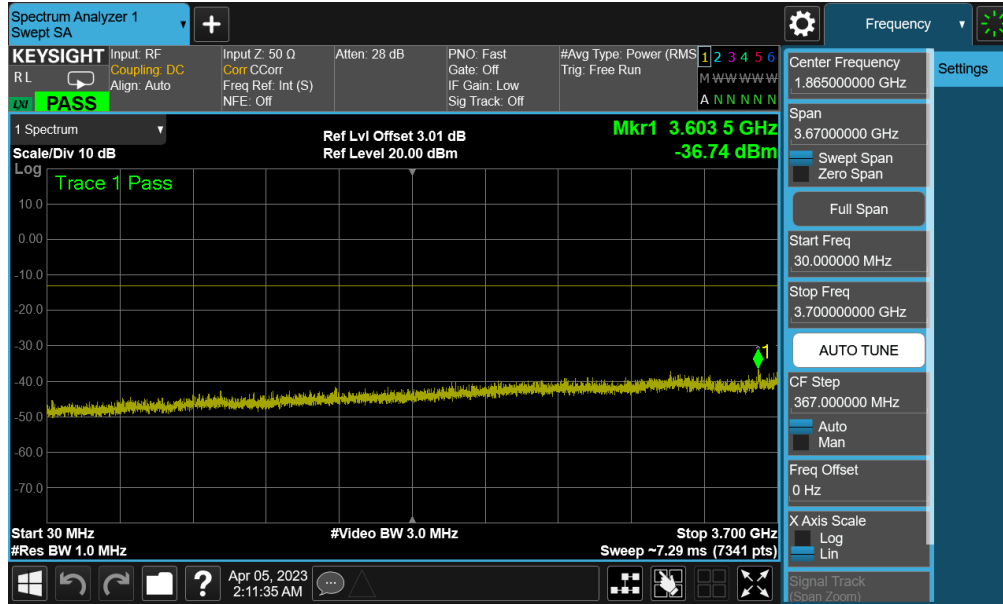


Plot 7-122. Conducted Spurious Plot (NR Band n77 PC3 (C-band) - 100MHz QPSK - 1RB - Mid Channel - Sub-UHB (UL-MIMO))

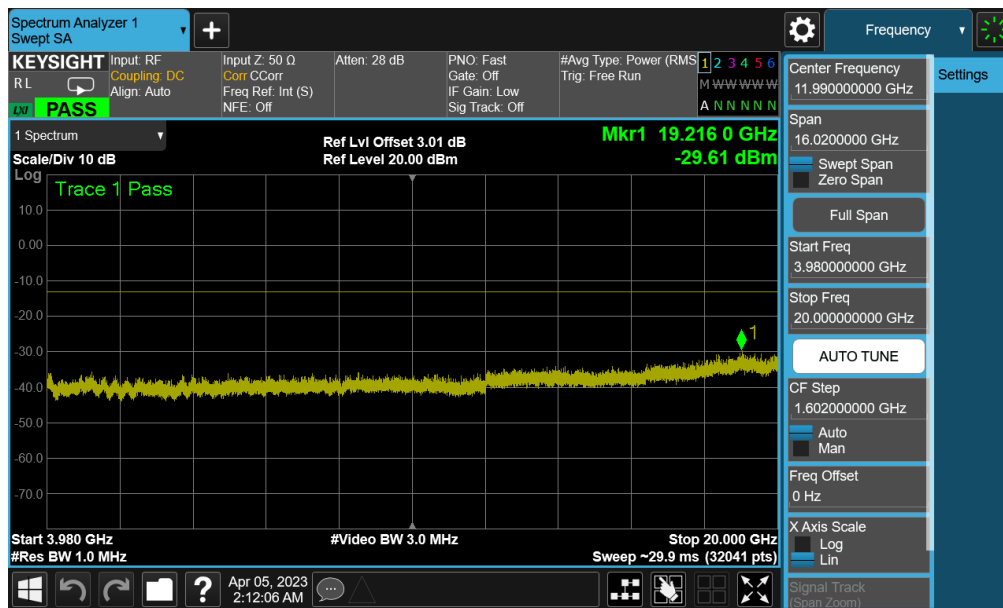


Plot 7-123. Conducted Spurious Plot (NR Band n77 PC3 (C-band) - 100MHz QPSK - 1RB - Mid Channel - Sub-UHB (UL-MIMO))

FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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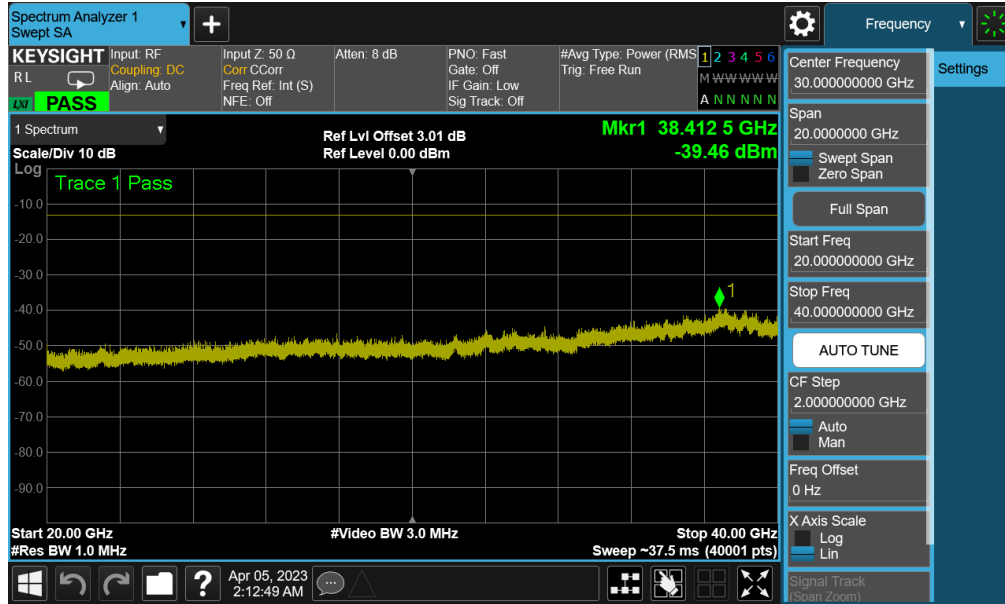


Plot 7-124. Conducted Spurious Plot (NR Band n77 PC3 (C-band) - 100MHz QPSK - 1RB - High Channel - Sub-UHB (UL-MIMO))



Plot 7-125. Conducted Spurious Plot (NR Band n77 PC3 (C-band) - 100MHz QPSK - 1RB - High Channel - Sub-UHB (UL-MIMO))

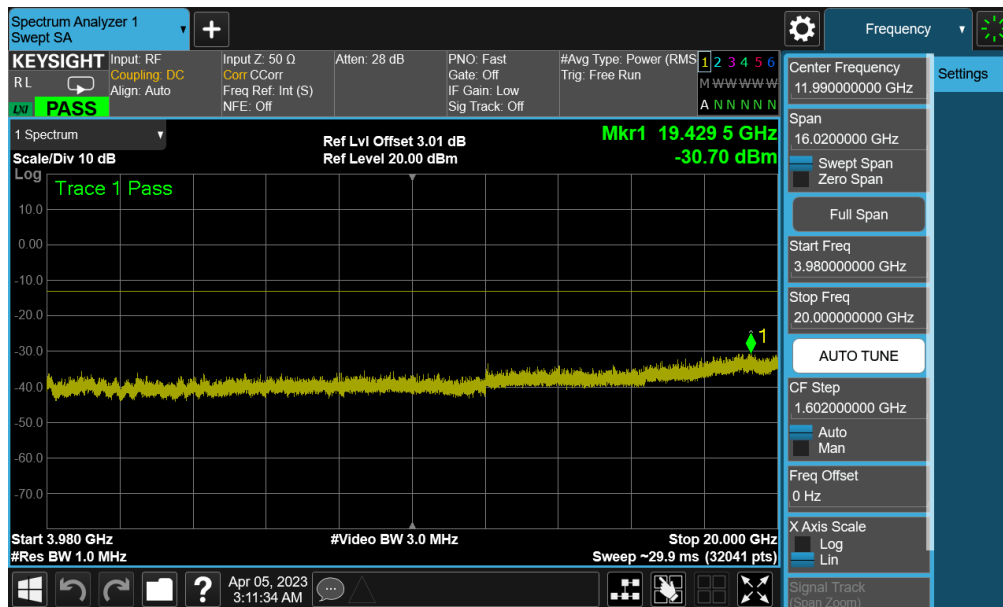
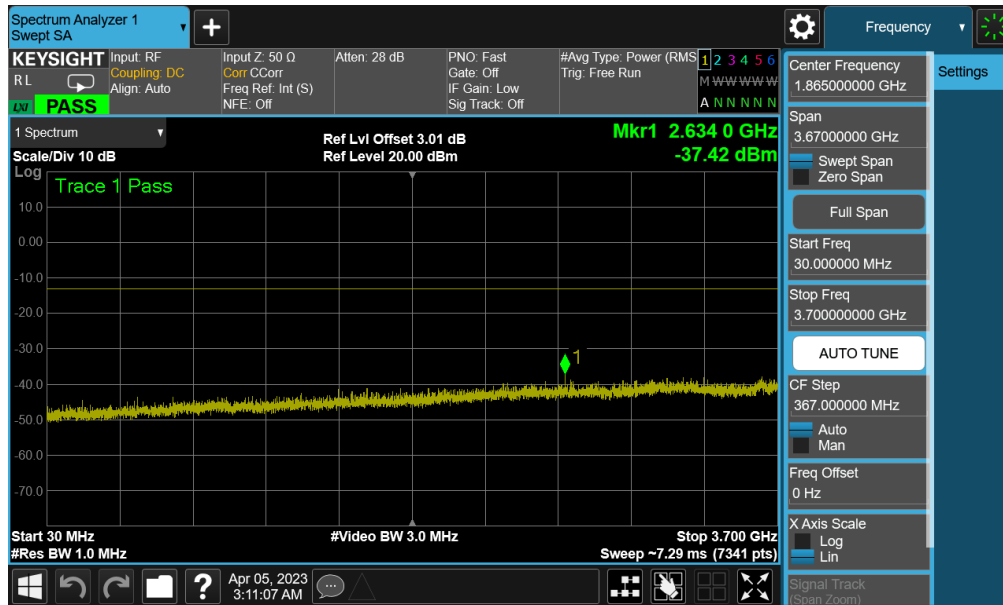
FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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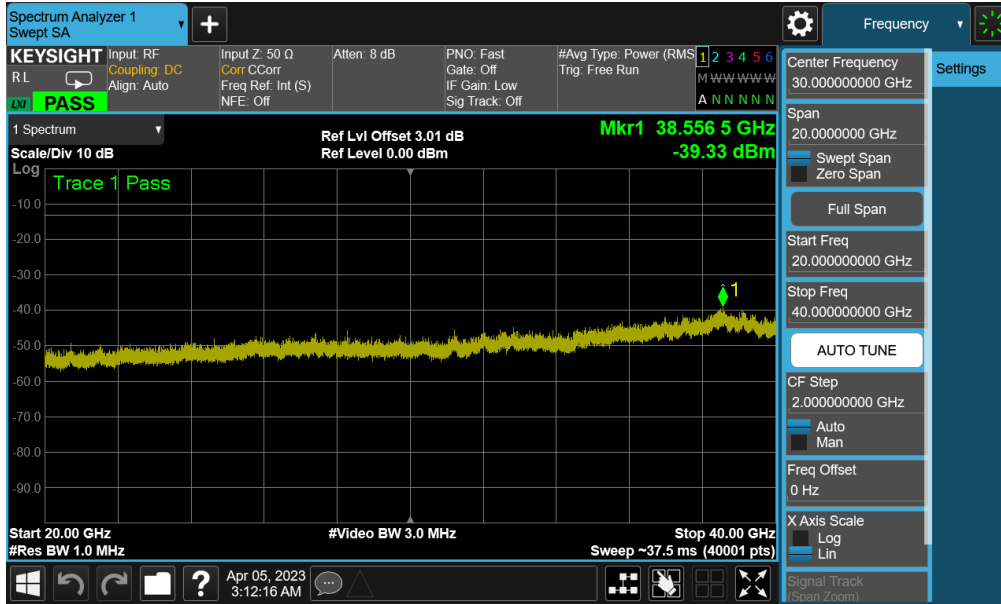
Plot 7-126. Conducted Spurious Plot (NR Band n77 PC3 (C-band) - 100MHz QPSK - 1RB - High Channel - Sub-UHB (UL-MIMO))

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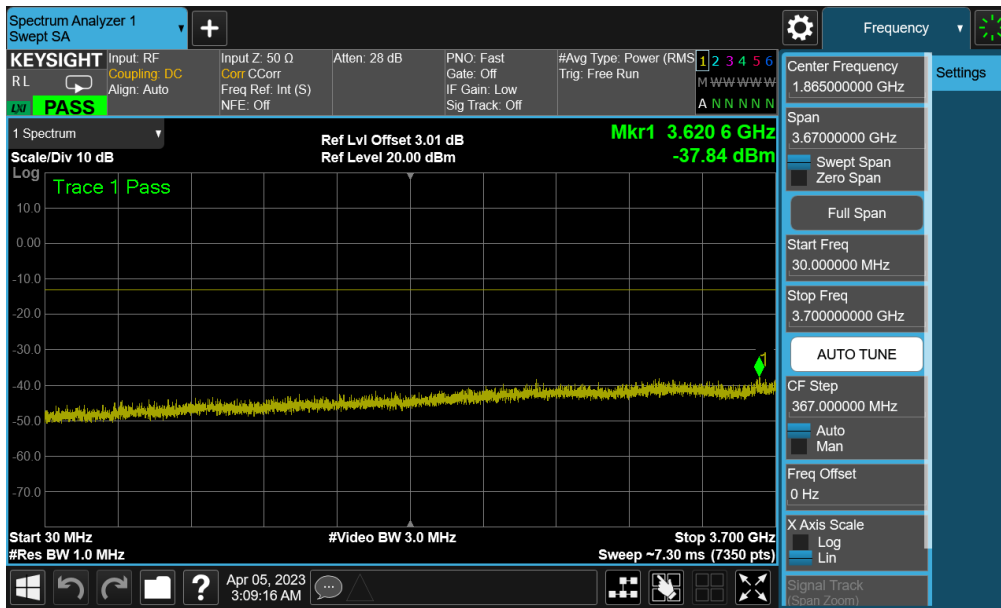
NR Band n77 PC3 (C-band) – 3rd-LMHB (SRS 2T4R)



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Plot 7-129. Conducted Spurious Plot (NR Band n77 PC3 (C-band) - 100MHz QPSK - 1RB - Low Channel - 3rd-LMHB (SRS 2T4R))



Plot 7-130. Conducted Spurious Plot (NR Band n77 PC3 (C-band) - 100MHz QPSK - 1RB - Mid Channel - 3rd-LMHB (SRS 2T4R))

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