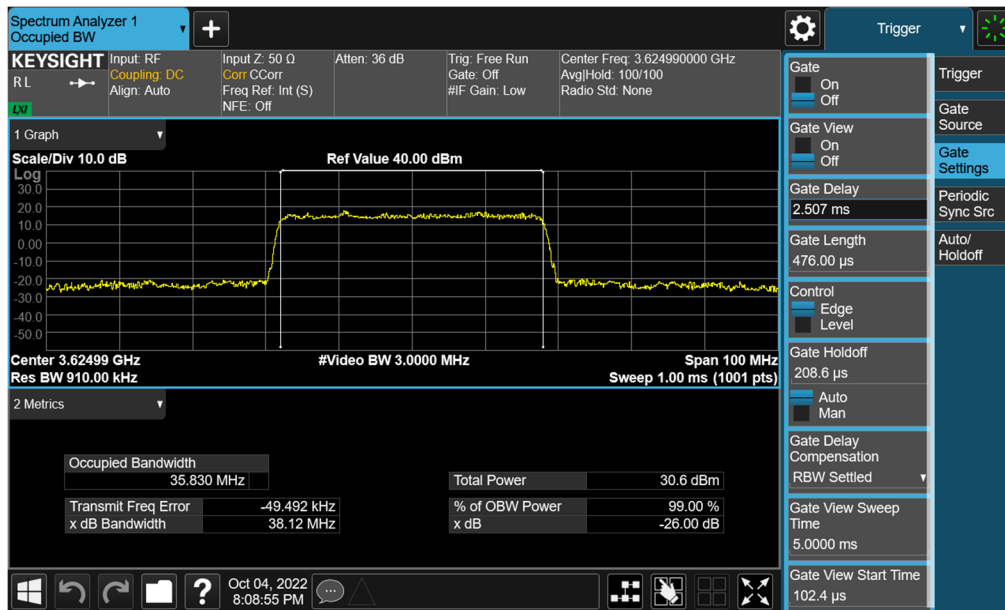
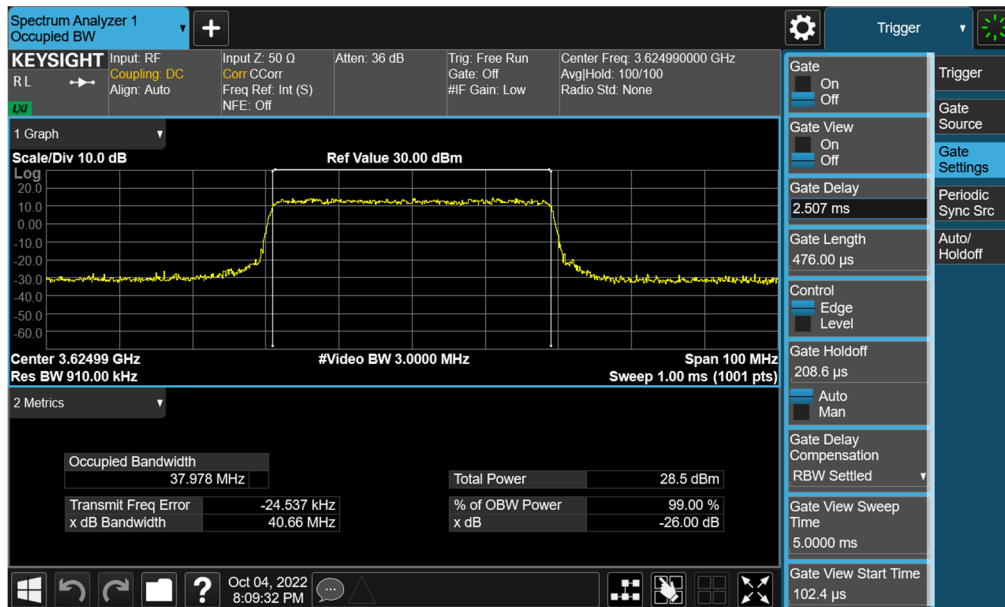


NR Band n48 – Ant G

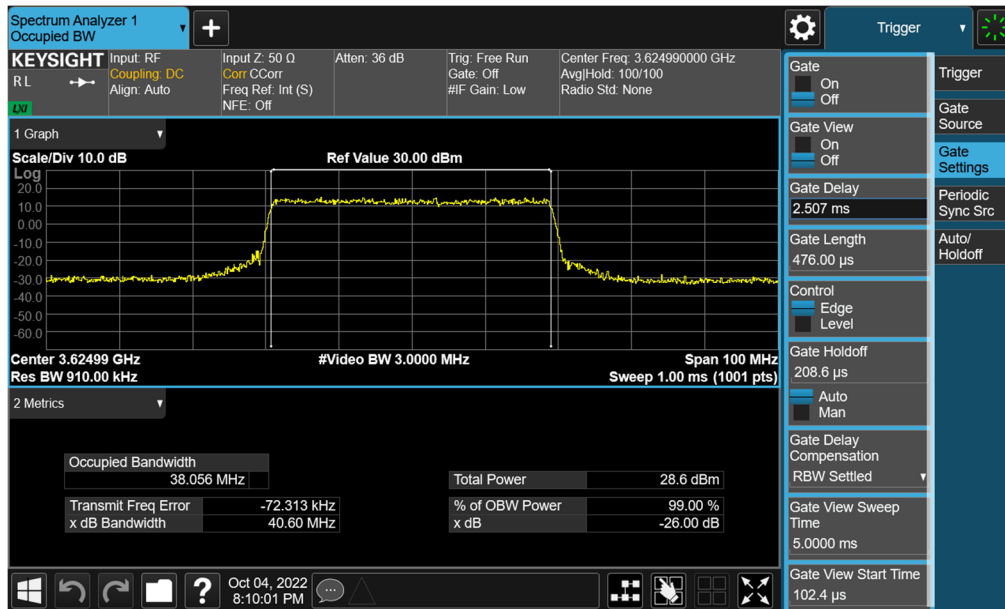


Plot 7-17. Occupied Bandwidth Plot (NR Band n48 - 40MHz $\pi/2$ BPSK - Full RB Configuration - Ant G)

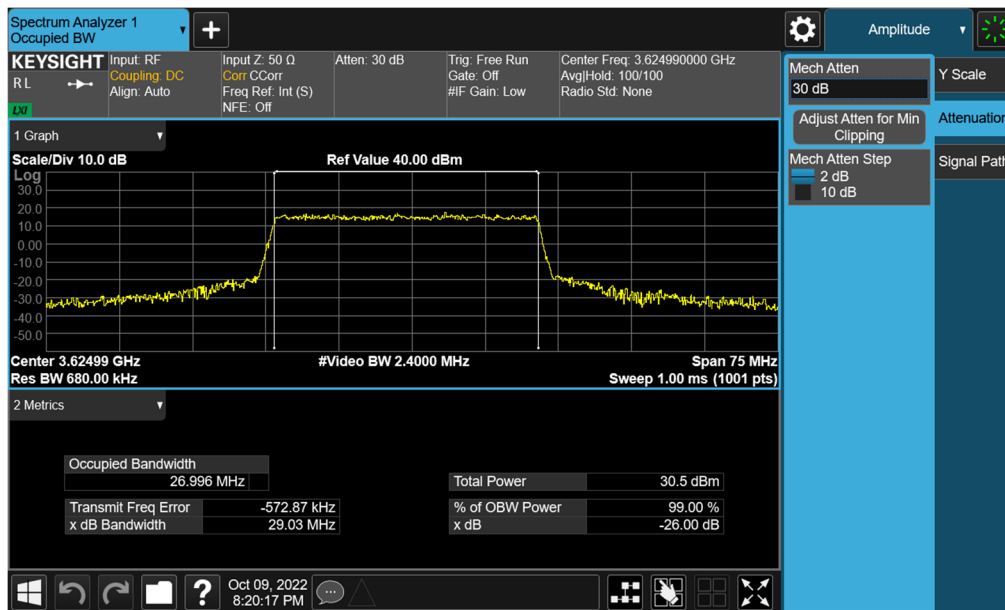


Plot 7-18. Occupied Bandwidth Plot (NR Band n48 - 40MHz QPSK - Full RB Configuration - Ant G)

FCC ID: A3LSMS918U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010098-12.A3L	Test Dates: 09/06/2022 - 11/16/2022	EUT Type: Portable Handset	Page 29 of 143

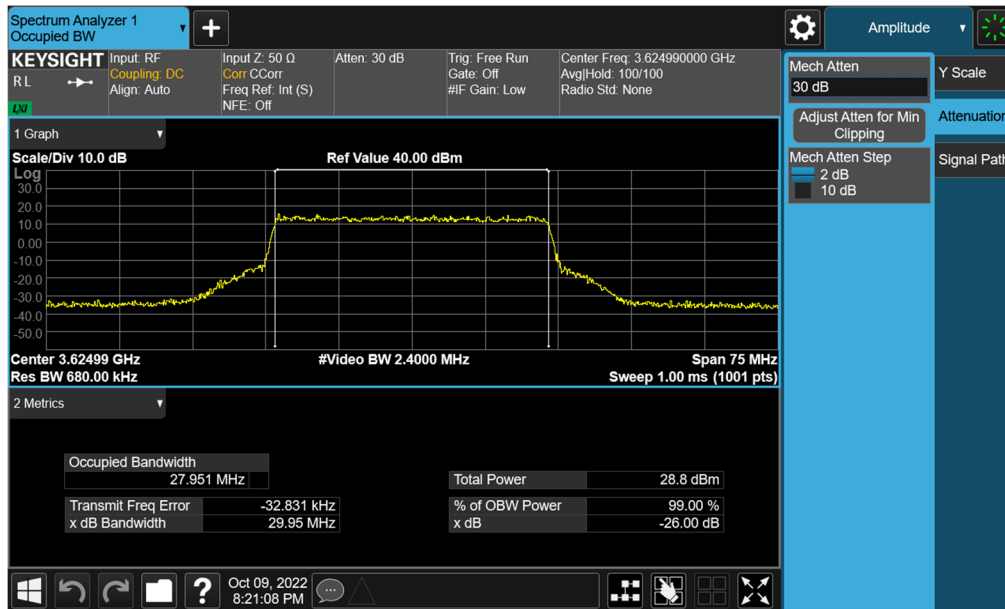


Plot 7-19. Occupied Bandwidth Plot (NR Band n48 - 40MHz 16-QAM - Full RB Configuration - Ant G)

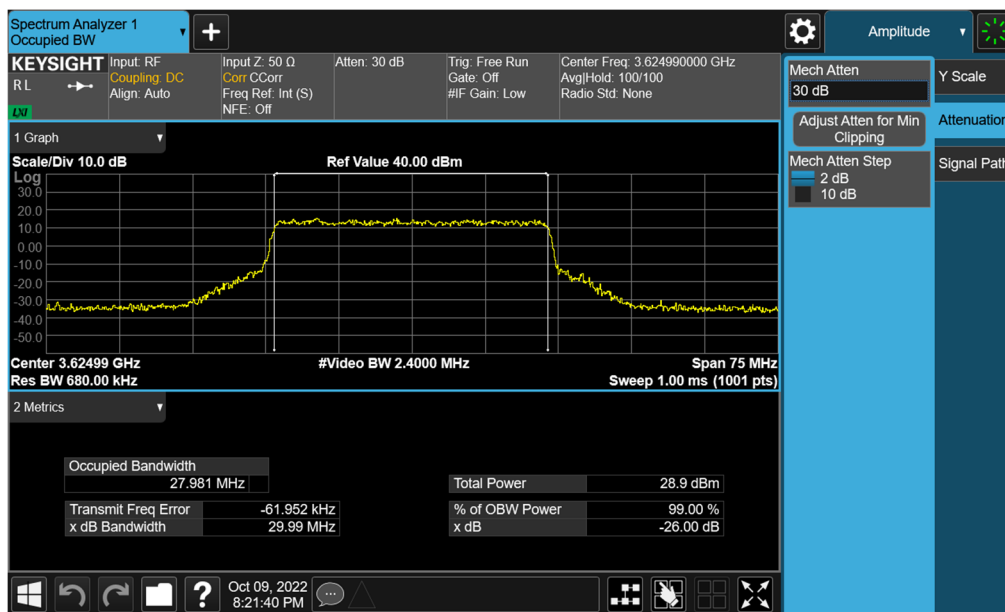


Plot 7-20. Occupied Bandwidth Plot (NR Band n48 - 30MHz $\pi/2$ BPSK - Full RB Configuration - Ant G)

FCC ID: A3LSMS918U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010098-12.A3L	Test Dates: 09/06/2022 - 11/16/2022	EUT Type: Portable Handset	Page 30 of 143

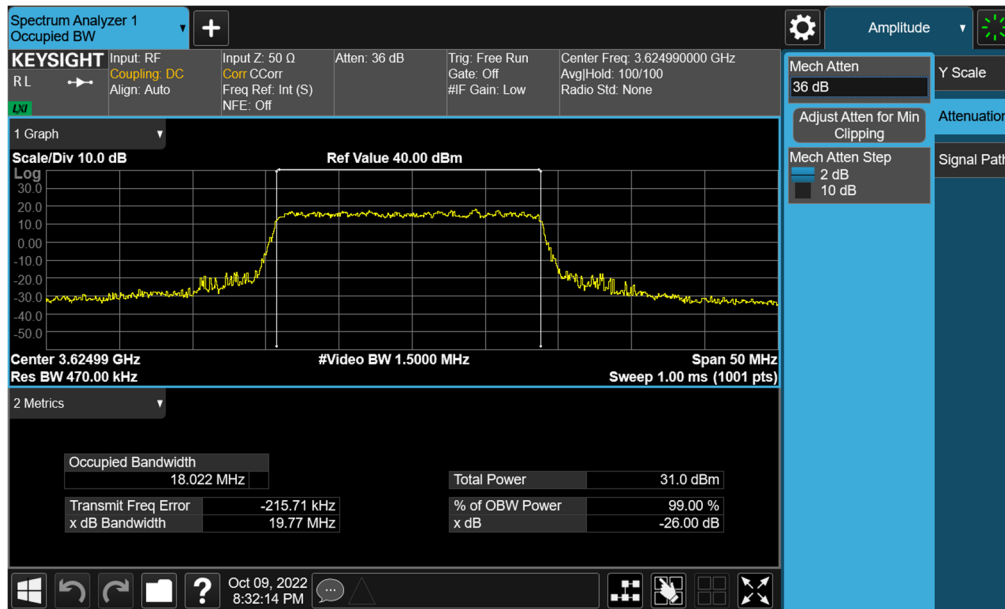


Plot 7-21. Occupied Bandwidth Plot (NR Band n48 - 30MHz QPSK - Full RB Configuration - Ant G)

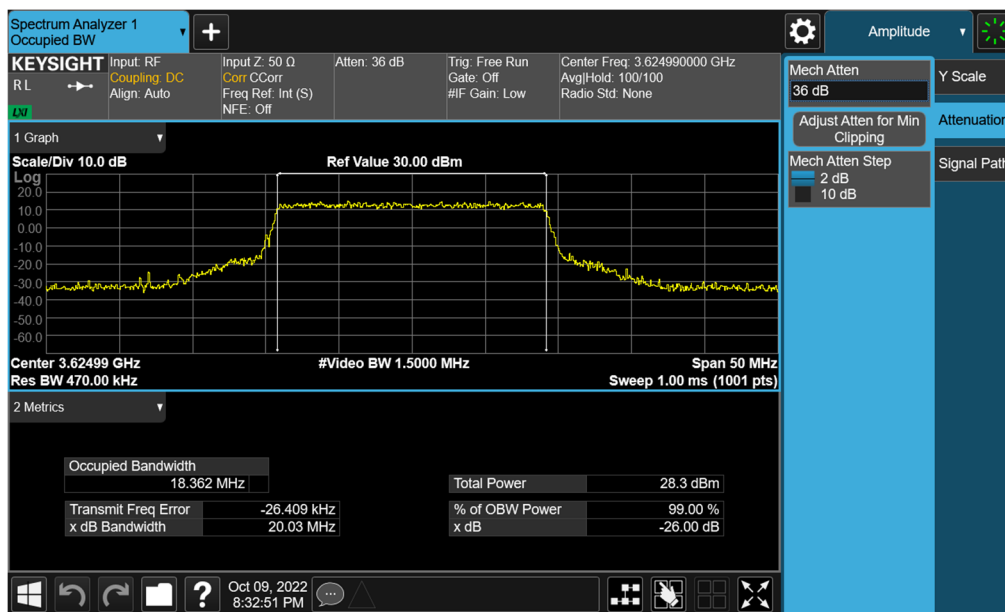


Plot 7-22. Occupied Bandwidth Plot (NR Band n48 - 30MHz 16-QAM - Full RB Configuration - Ant G)

FCC ID: A3LSMS918U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010098-12.A3L	Test Dates: 09/06/2022 - 11/16/2022	EUT Type: Portable Handset	Page 31 of 143

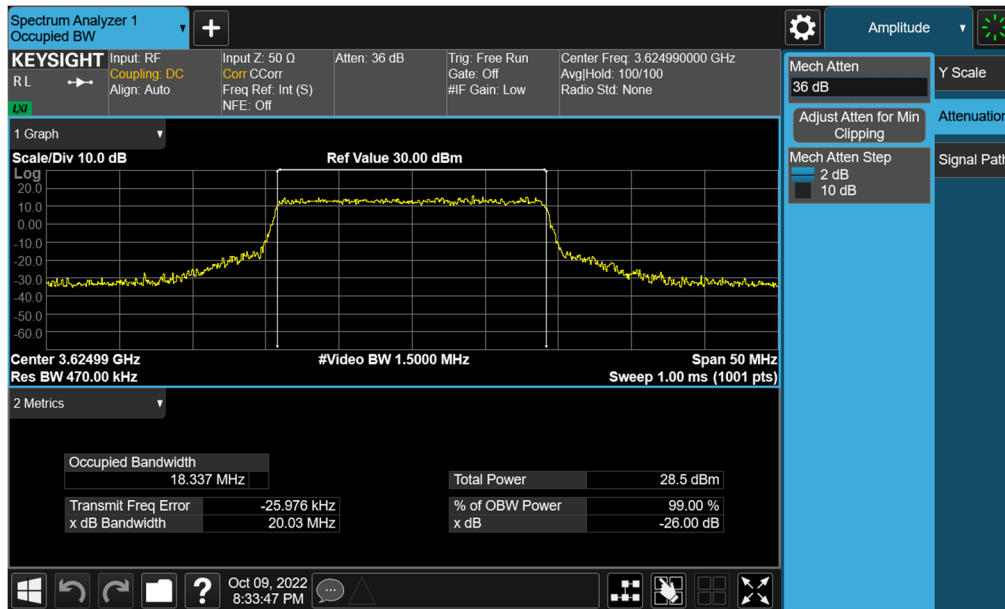


Plot 7-23. Occupied Bandwidth Plot (NR Band n48 - 20MHz $\pi/2$ BPSK - Full RB Configuration - Ant G)

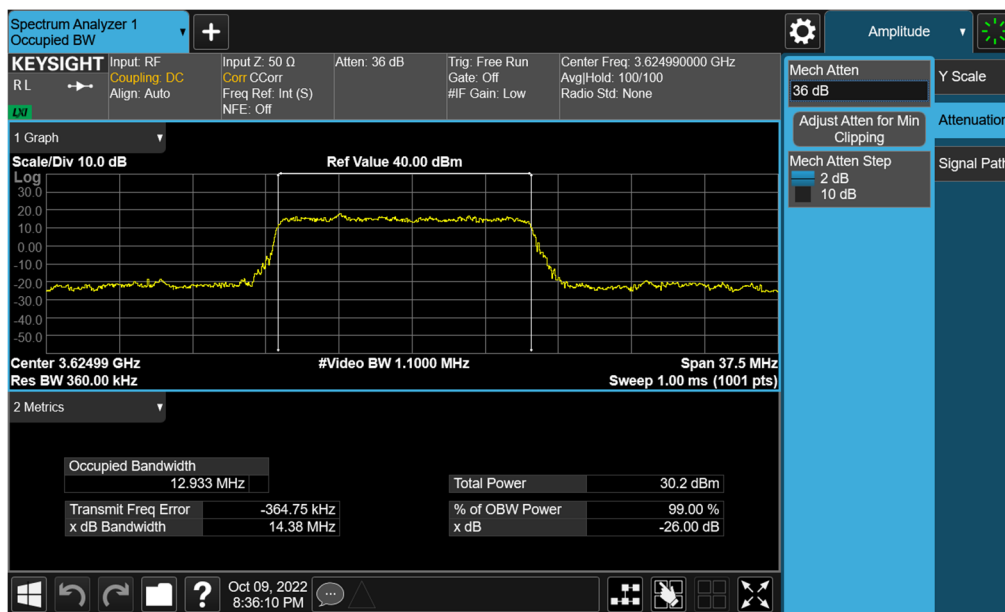


Plot 7-24. Occupied Bandwidth Plot (NR Band n48 - 20MHz QPSK - Full RB Configuration - Ant G)

FCC ID: A3LSMS918U		PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010098-12.A3L	Test Dates: 09/06/2022 - 11/16/2022	EUT Type: Portable Handset	Page 32 of 143	

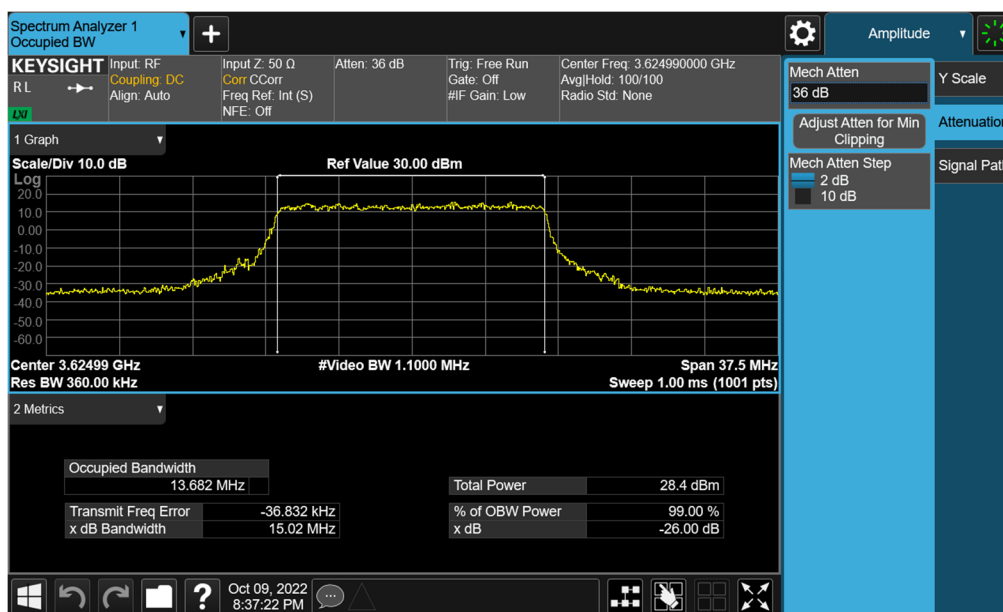
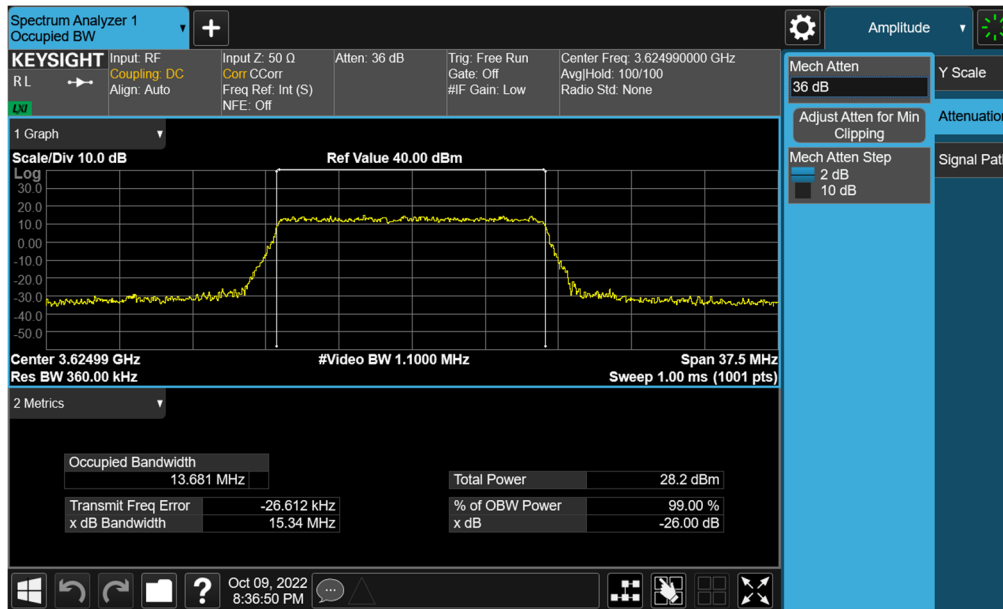


Plot 7-25. Occupied Bandwidth Plot (NR Band n48 - 20MHz 16-QAM - Full RB Configuration - Ant G)

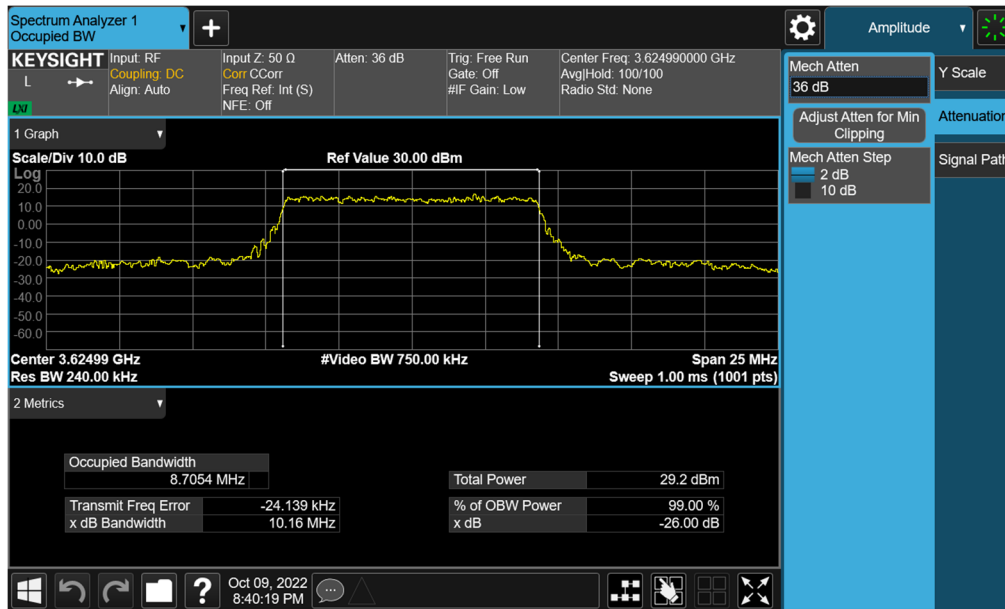


Plot 7-26. Occupied Bandwidth Plot (NR Band n48 - 15MHz $\pi/2$ BPSK - Full RB Configuration - Ant G)

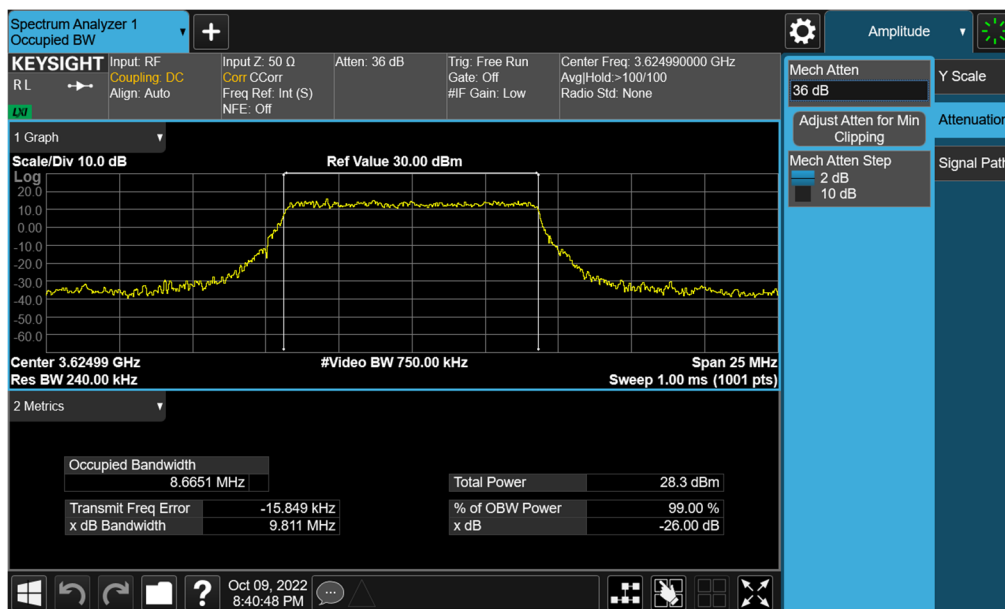
FCC ID: A3LSMS918U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010098-12.A3L	Test Dates: 09/06/2022 - 11/16/2022	EUT Type: Portable Handset	Page 33 of 143



FCC ID: A3LSMS918U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010098-12.A3L	Test Dates: 09/06/2022 - 11/16/2022	EUT Type: Portable Handset	Page 34 of 143

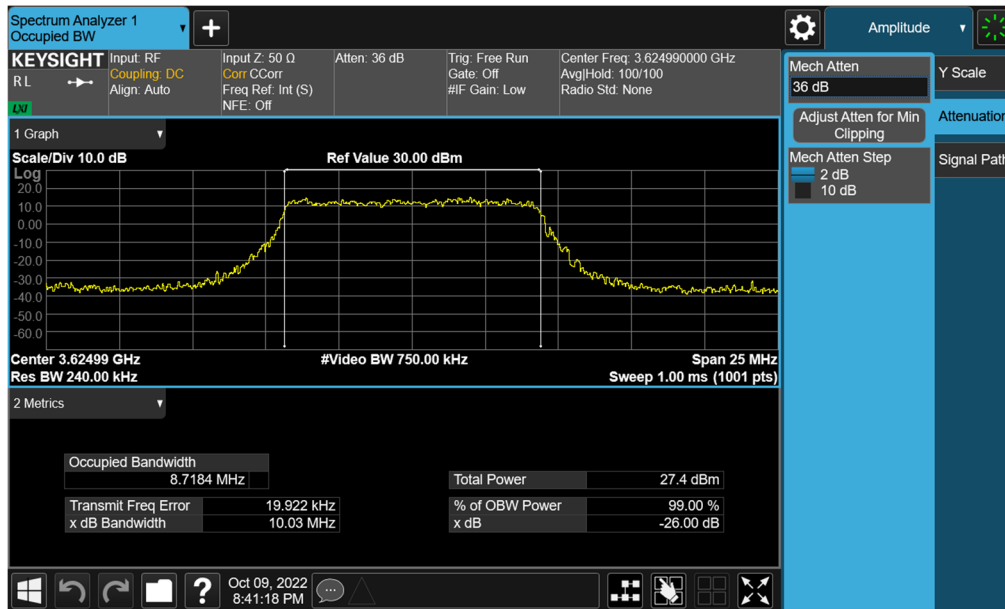


Plot 7-29. Occupied Bandwidth Plot (NR Band n48 - 10MHz $\pi/2$ BPSK - Full RB Configuration - Ant G)



Plot 7-30. Occupied Bandwidth Plot (NR Band n48 - 10MHz QPSK - Full RB Configuration - Ant G)

FCC ID: A3LSMS918U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010098-12.A3L	Test Dates: 09/06/2022 - 11/16/2022	EUT Type: Portable Handset	Page 35 of 143



FCC ID: A3LSMS918U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010098-12.A3L	Test Dates: 09/06/2022 - 11/16/2022	EUT Type: Portable Handset	Page 36 of 143

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 its maximum duty cycle, 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.

The conducted power of any emissions below 3530 MHz or above 3720 MHz shall not exceed -40 dBm/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 at least 10 * the fundamental frequency (separated into at least two plots per channel)
2. Detector = RMS
3. Trace mode = Max Hold
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.

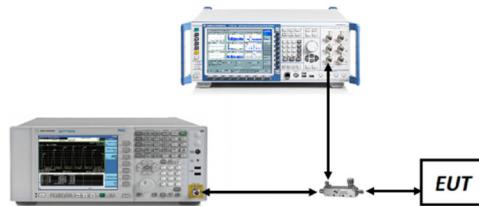


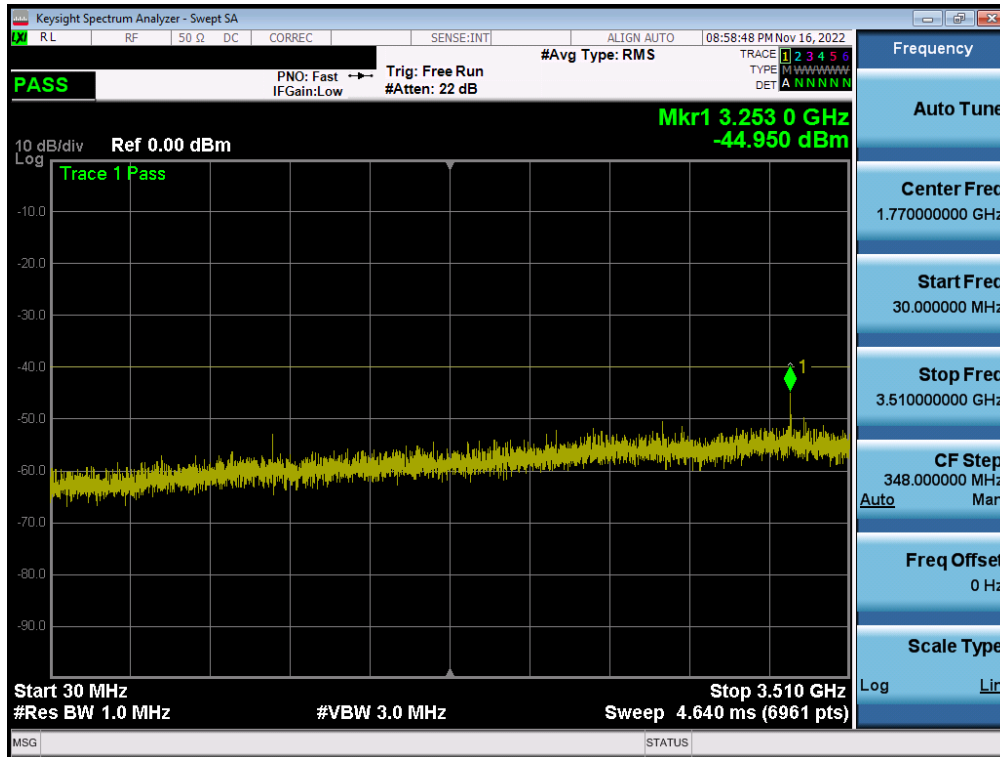
Figure 7-3. Test Instrument & Measurement Setup

Test Notes

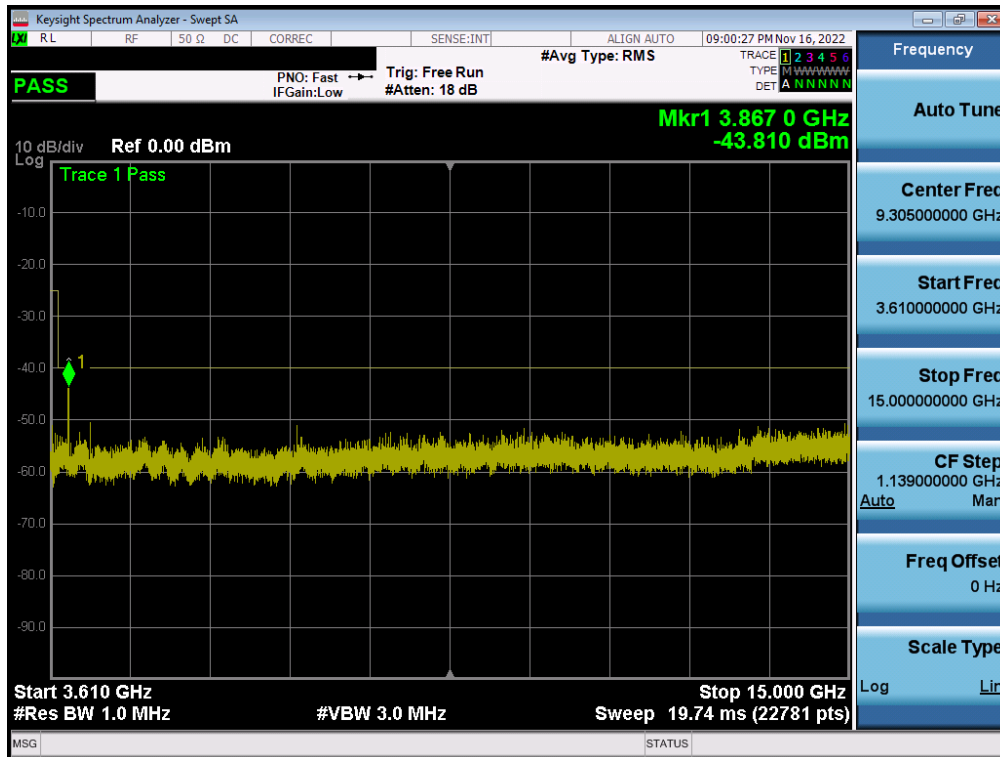
1. Compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz.
2. For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst-case configuration.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

FCC ID: A3LSMS918U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010098-12.A3L	Test Dates: 09/06/2022 - 11/16/2022	EUT Type: Portable Handset	Page 37 of 143

LTE Band 48

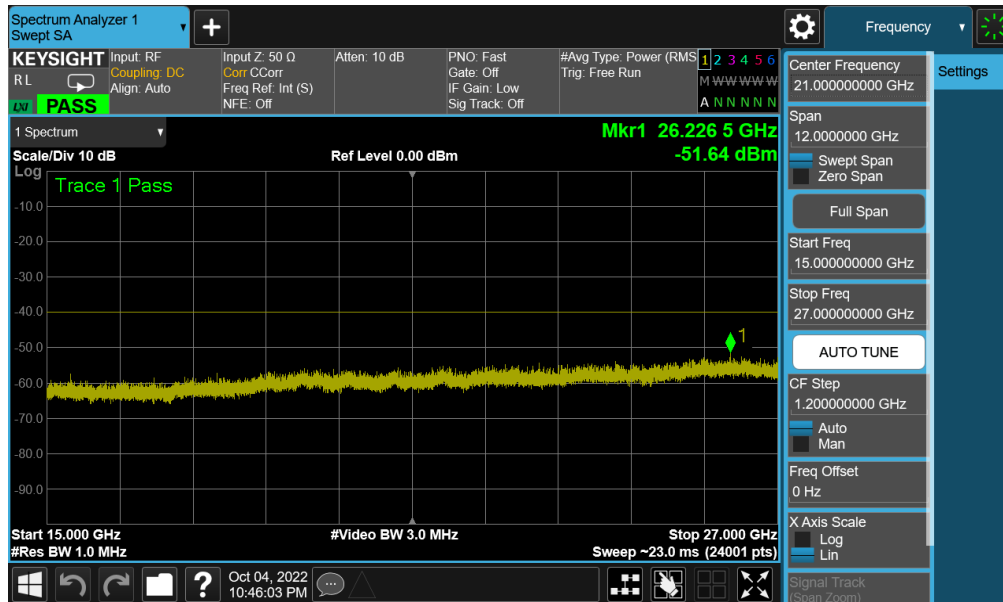


Plot 7-32. Conducted Spurious Plot (LTE Band 48 - 20MHz QPSK - Low Channel)

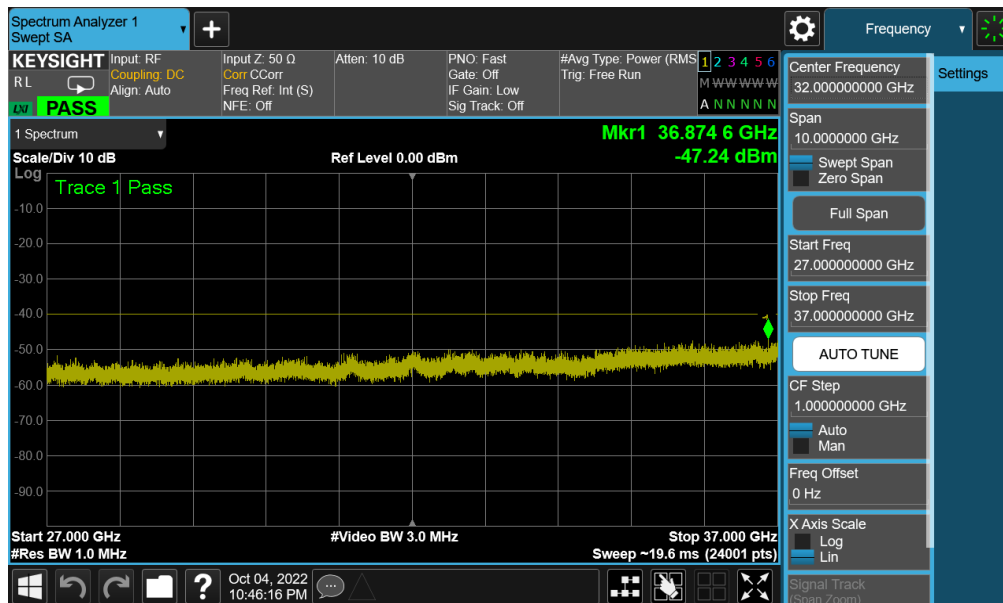


FCC ID: A3LSMS918U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010098-12.A3L	Test Dates: 09/06/2022 - 11/16/2022	EUT Type: Portable Handset	Page 38 of 143

Plot 7-33. Conducted Spurious Plot (LTE Band 48 - 20MHz QPSK - Low Channel)

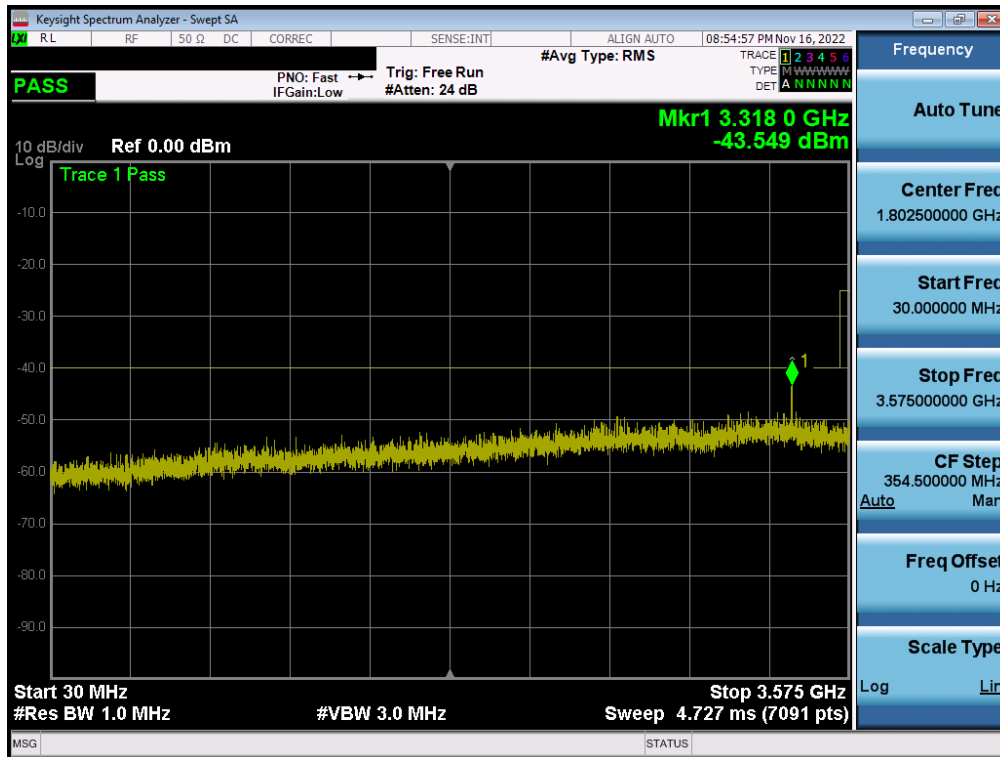


Plot 7-34. Conducted Spurious Plot (LTE Band 48 - 20MHz QPSK - Low Channel)

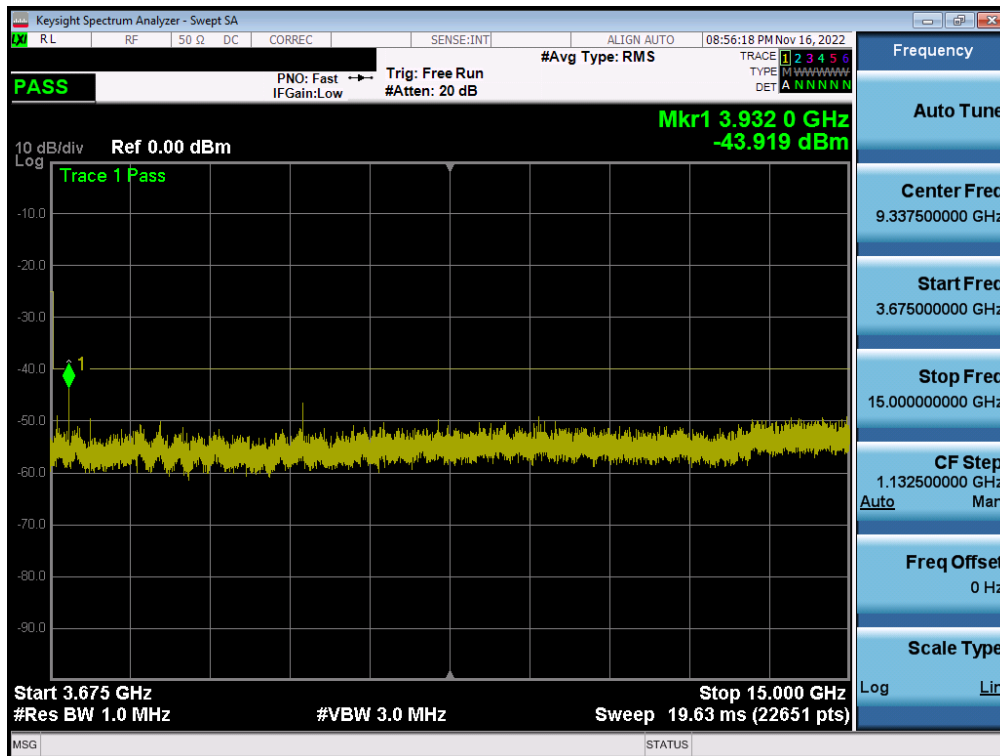


Plot 7-35. Conducted Spurious Plot (LTE Band 48 - 20MHz QPSK - Low Channel)

FCC ID: A3LSMS918U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010098-12.A3L	Test Dates: 09/06/2022 - 11/16/2022	EUT Type: Portable Handset	Page 39 of 143

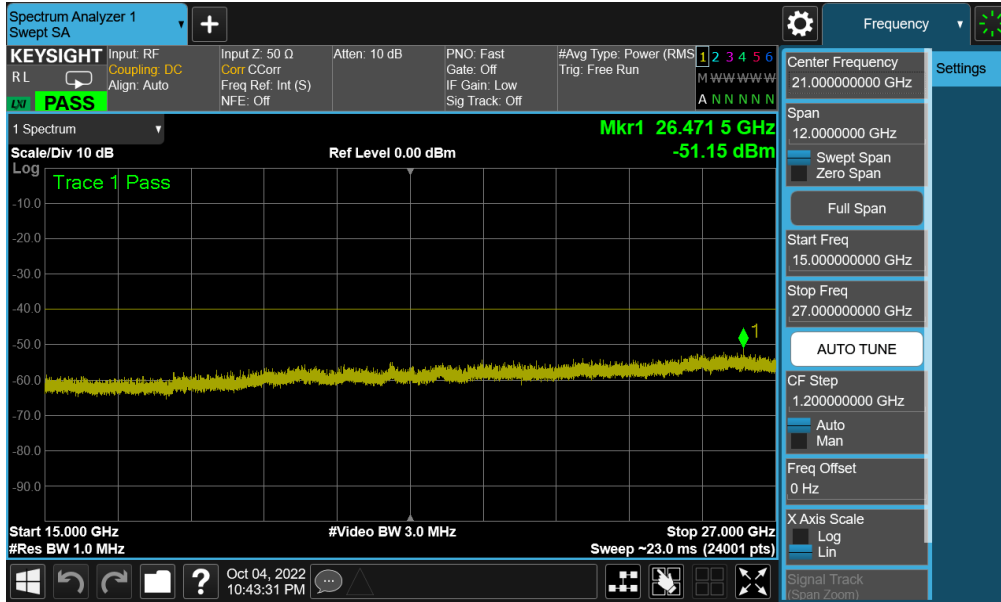


Plot 7-36. Conducted Spurious Plot (LTE Band 48 - 20MHz QPSK - Mid Channel)

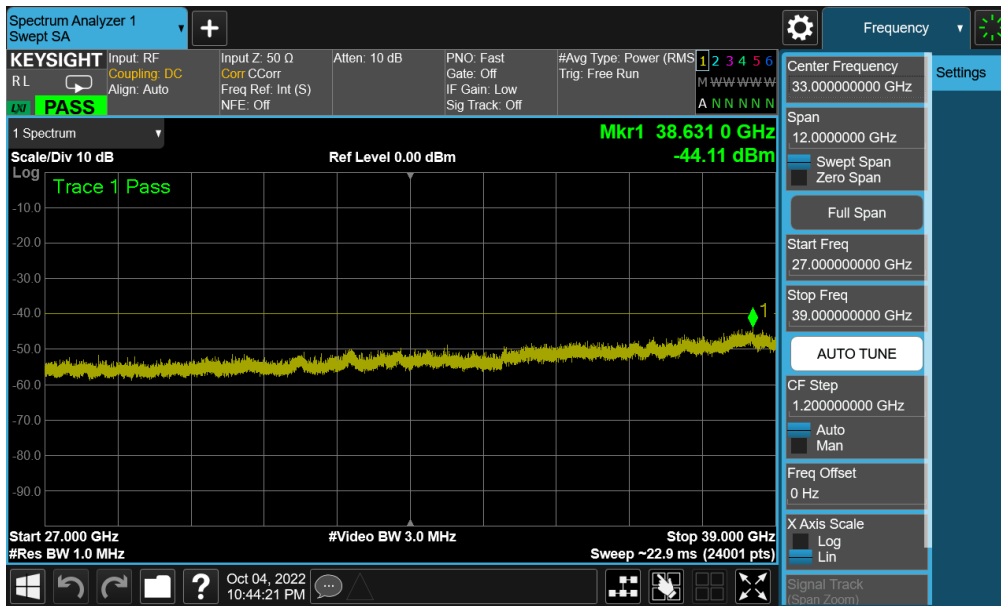


Plot 7-37. Conducted Spurious Plot (LTE Band 48 - 20MHz QPSK - Mid Channel)

FCC ID: A3LSMS918U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010098-12.A3L	Test Dates: 09/06/2022 - 11/16/2022	EUT Type: Portable Handset	Page 40 of 143

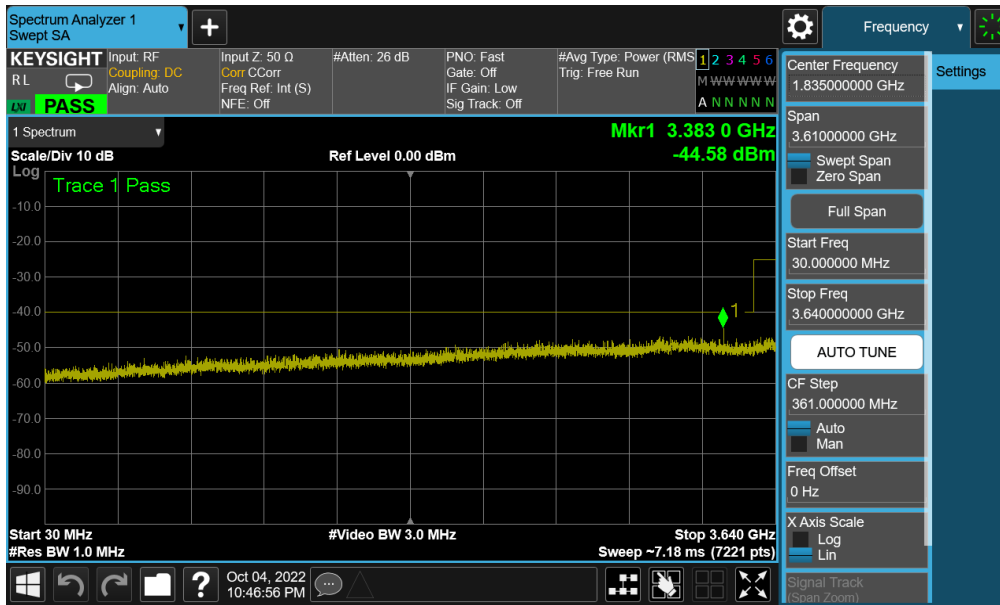


Plot 7-38. Conducted Spurious Plot (LTE Band 48 - 20MHz QPSK - Mid Channel)

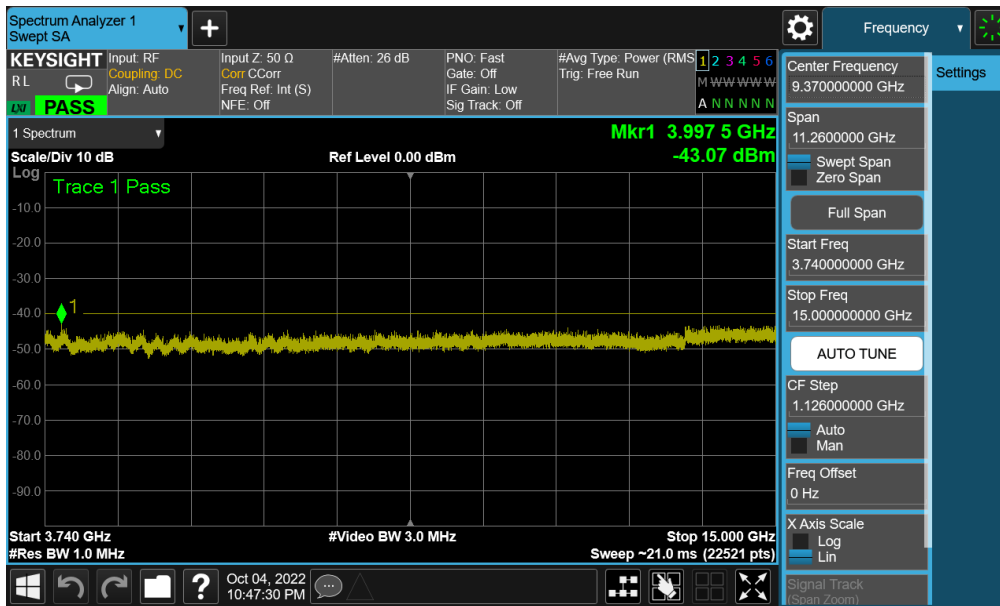


Plot 7-39. Conducted Spurious Plot (LTE Band 48 - 20MHz QPSK - Mid Channel)

FCC ID: A3LSMS918U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010098-12.A3L	Test Dates: 09/06/2022 - 11/16/2022	EUT Type: Portable Handset	Page 41 of 143

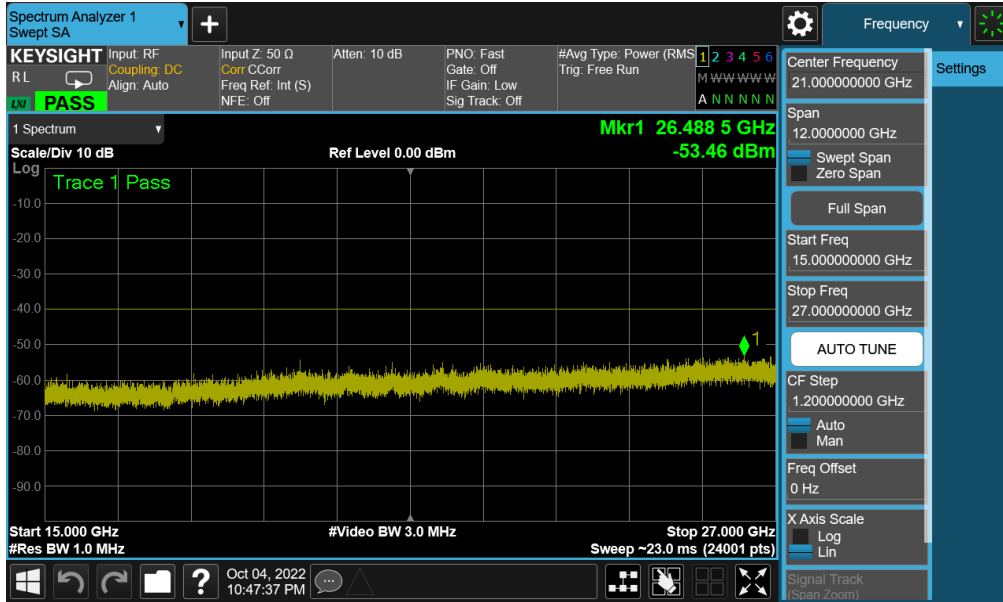


Plot 7-40. Conducted Spurious Plot (LTE Band 48 - 20MHz QPSK - High Channel)

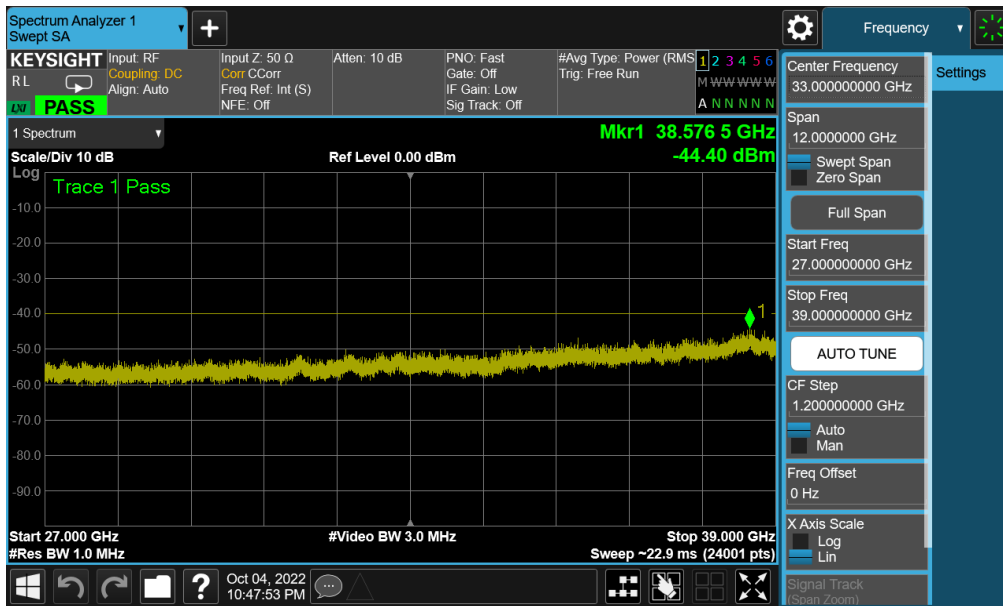


Plot 7-41. Conducted Spurious Plot (LTE Band 48 - 20MHz QPSK - High Channel)

FCC ID: A3LSMS918U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010098-12.A3L	Test Dates: 09/06/2022 - 11/16/2022	EUT Type: Portable Handset	Page 42 of 143



Plot 7-42. Conducted Spurious Plot (LTE Band 48 - 20MHz QPSK - High Channel)



Plot 7-43. Conducted Spurious Plot (LTE Band 48 - 20MHz QPSK - High Channel)

FCC ID: A3LSMS918U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010098-12.A3L	Test Dates: 09/06/2022 - 11/16/2022	EUT Type: Portable Handset	Page 43 of 143