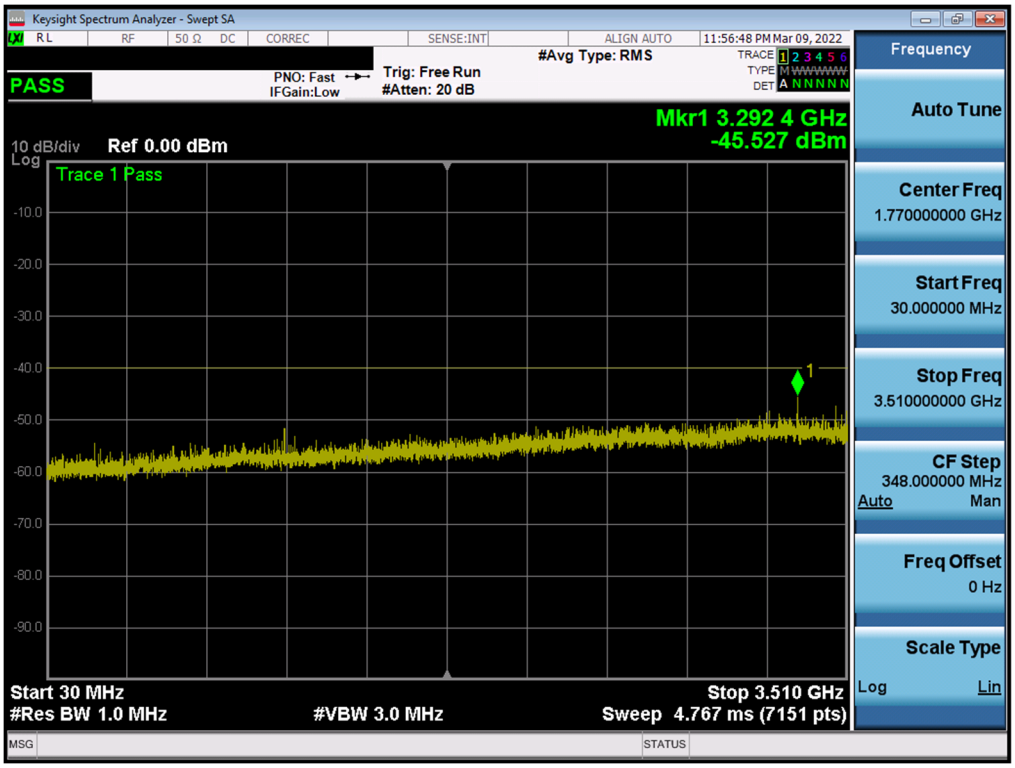
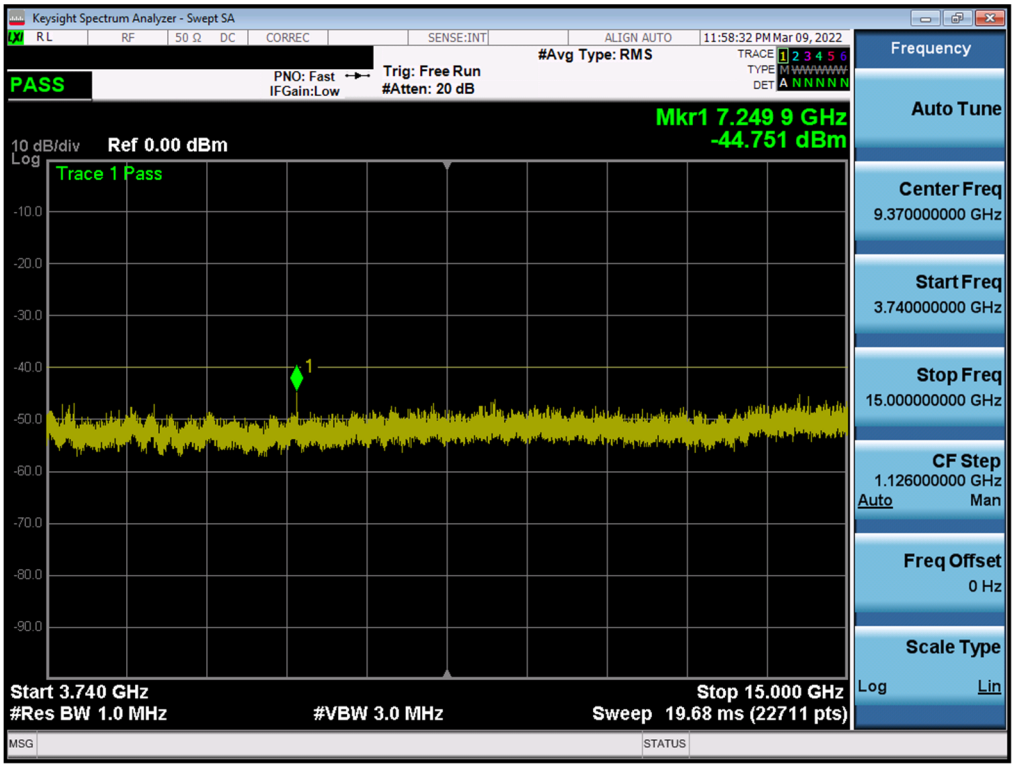
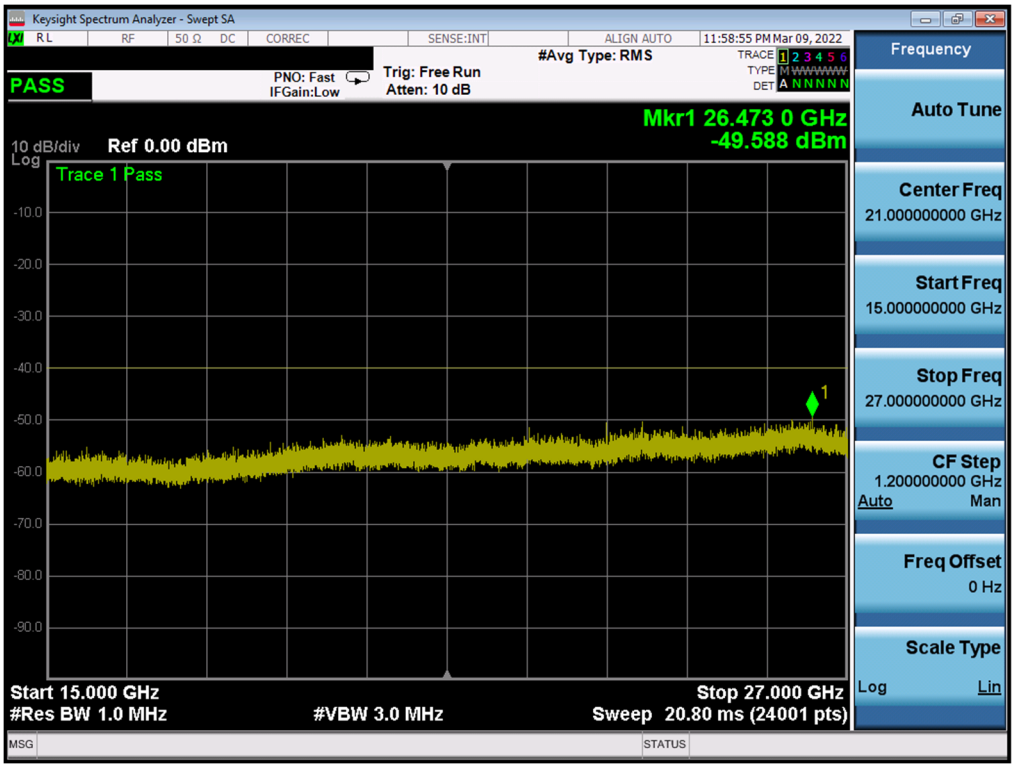


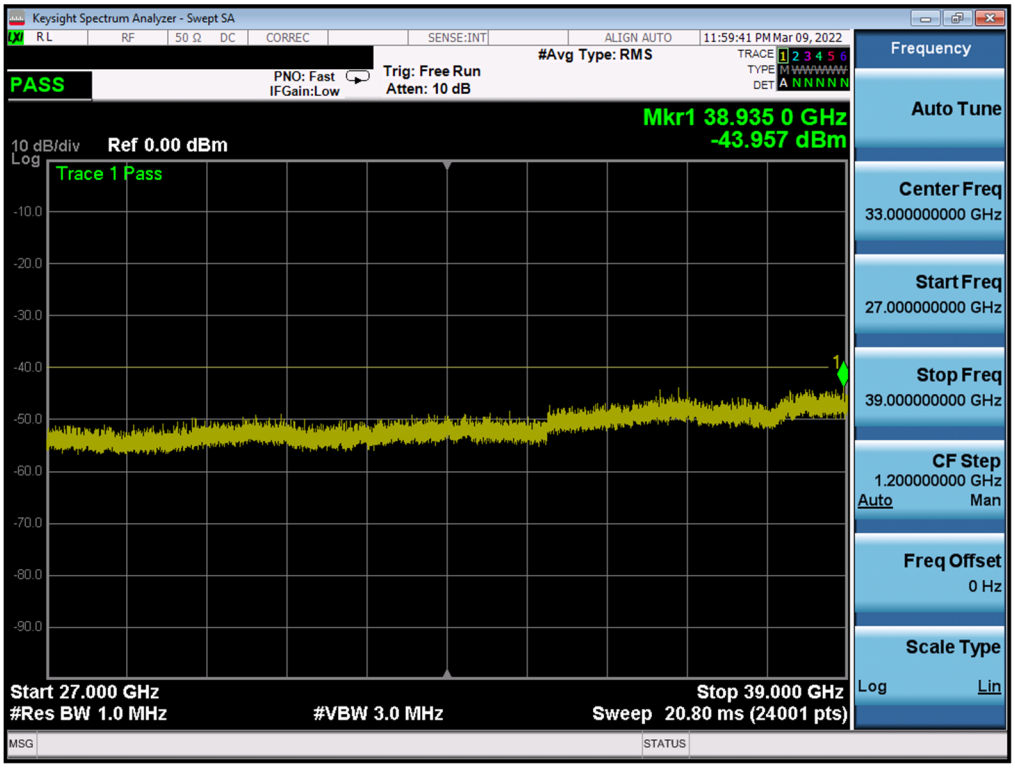
Plot 7-14. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - Mid Channel)



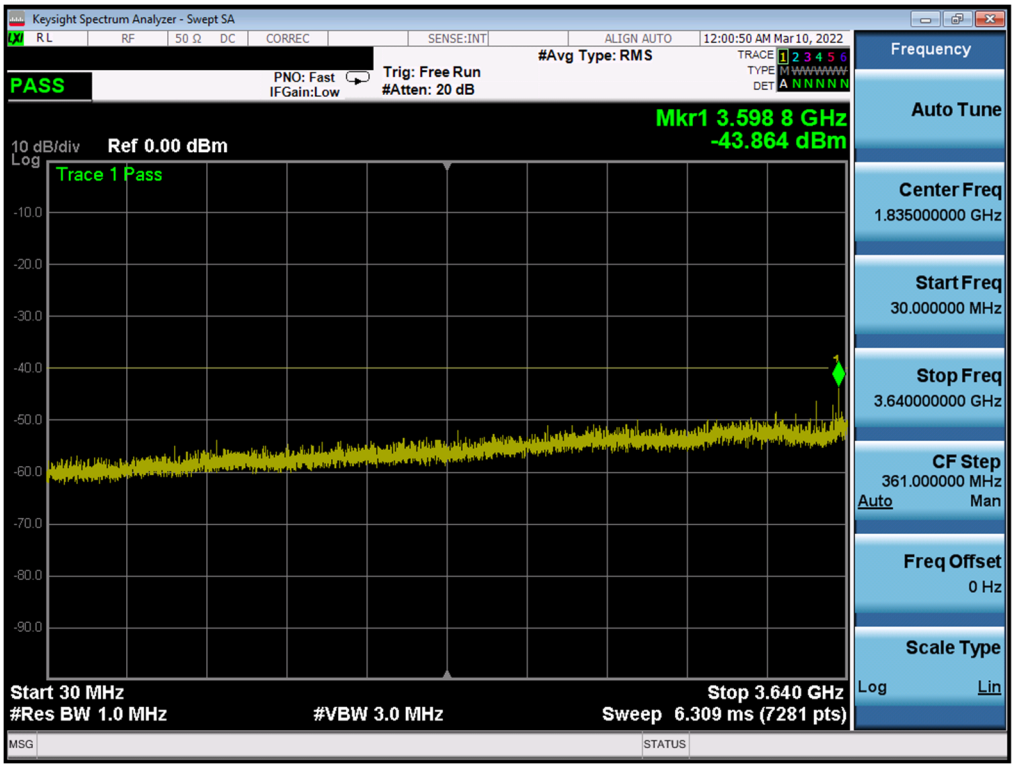
Plot 7-15. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - Mid Channel)



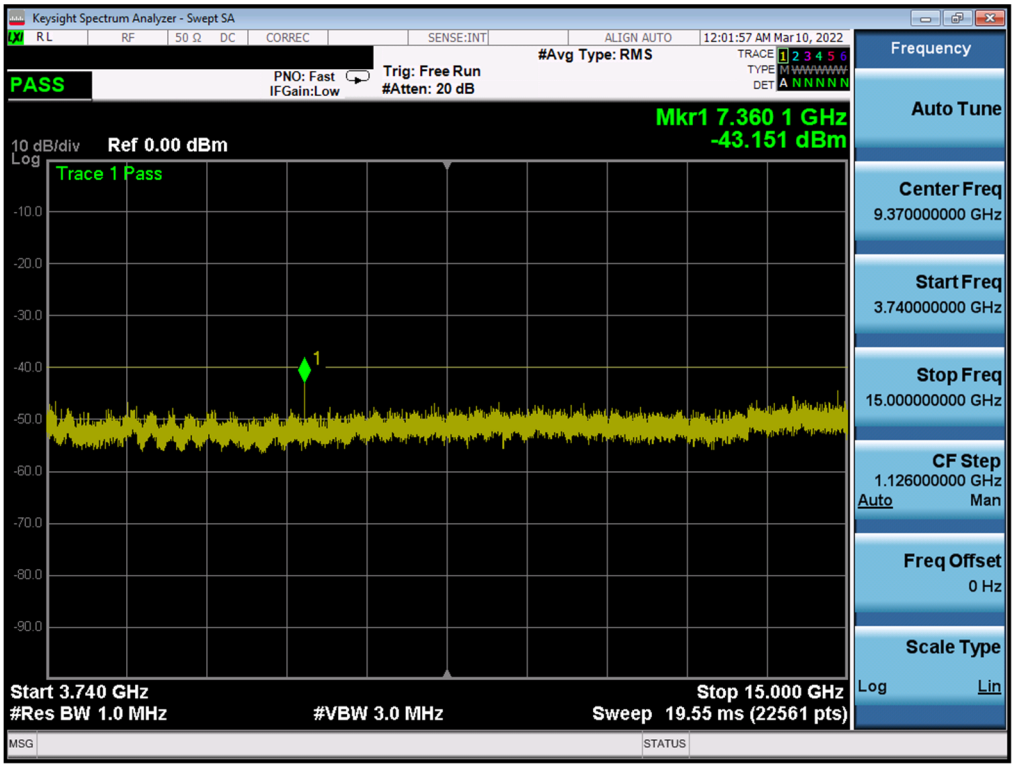
Plot 7-16. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - Mid Channel)



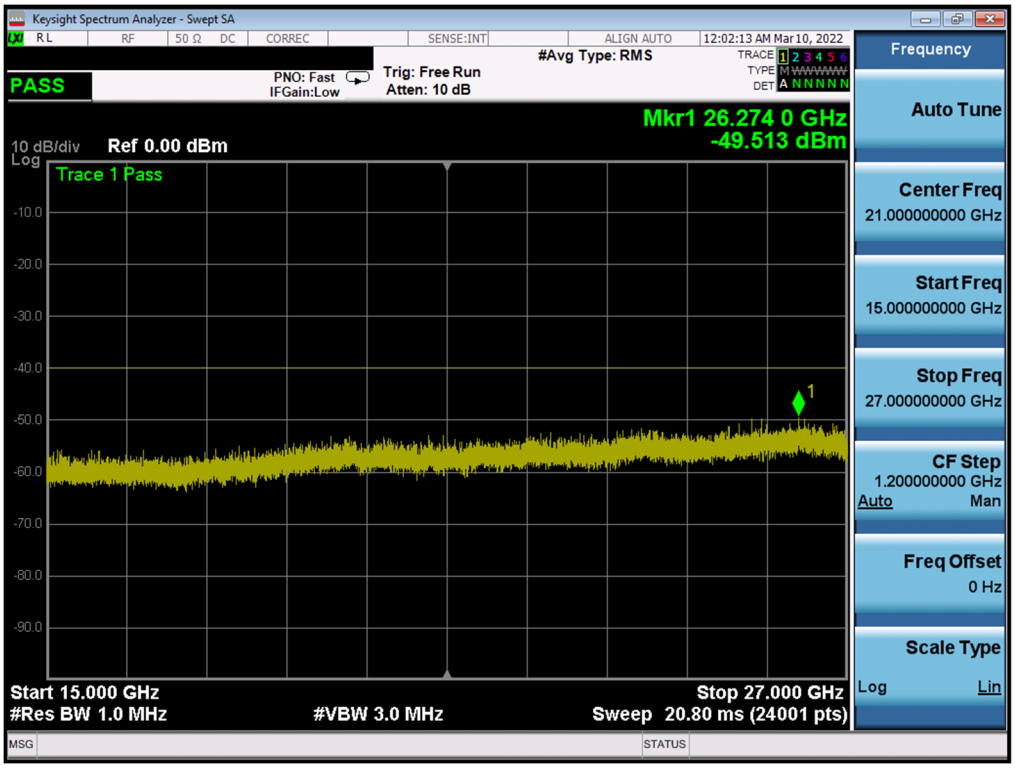
Plot 7-17. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - Mid Channel)



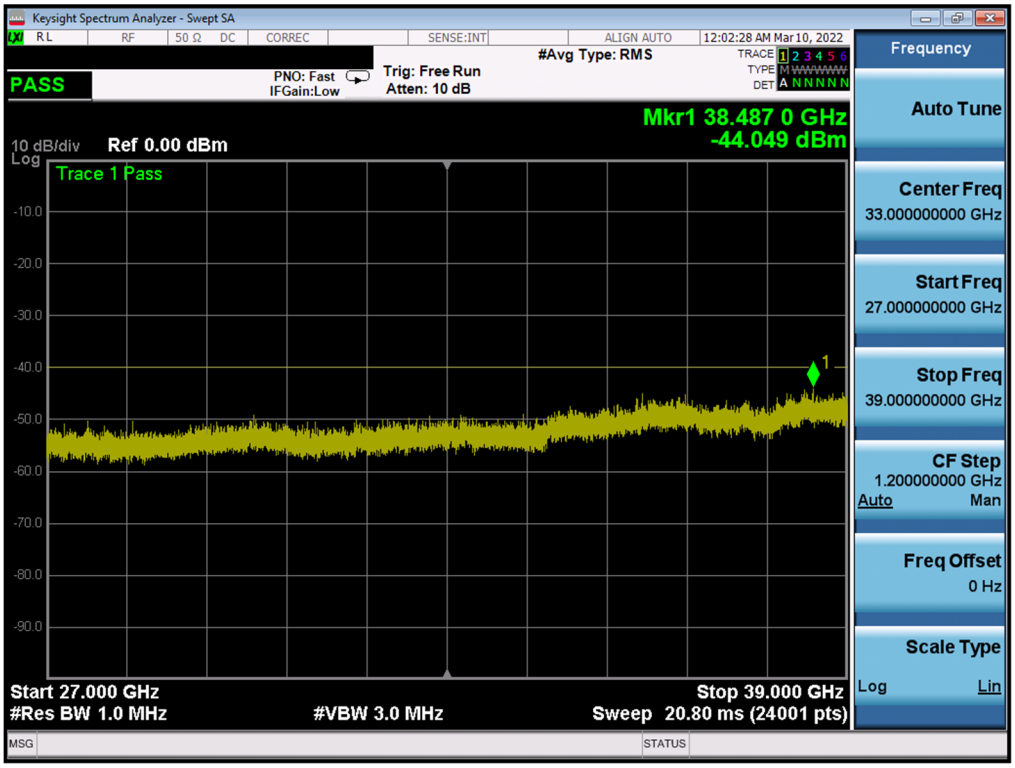
Plot 7-18. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - High Channel)



Plot 7-19. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - High Channel)



Plot 7-20. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - High Channel)



Plot 7-21. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - High Channel)

7.5 Band Edge Emissions at Antenna Terminal

§2.1051 §96.41(e)(ii)

Test Overview

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 emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed −13 dBm/MHz within 0 to B MHz (where B is the bandwidth in MHz of the assigned channel or multiple contiguous channels of the End User Device) above the upper CBSD-assigned channel edge and within 0 to B MHz below the lower CBSD-assigned channel edge. At all frequencies greater than B MHz above the upper CBSD assigned channel edge and less than B MHz below the lower CBSD-assigned channel edge, the conducted power of any end user device emission shall not exceed −25 dBm/MHz. The conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed −40dBm/MHz.

Test Procedure Used

KDB 971168 D01 v03r01 – Section 6.0

Test Settings

1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. RBW ≥ 1% of the emission bandwidth
4. VBW ≥ 3 x RBW
5. Detector = RMS
6. Number of sweep points ≥ 2 x Span/RBW
7. Trace mode = trace average
8. Sweep time = auto couple
9. The trace was allowed to stabilize

Test Setup

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

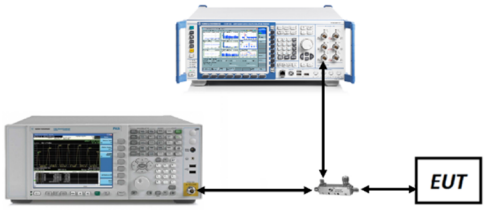
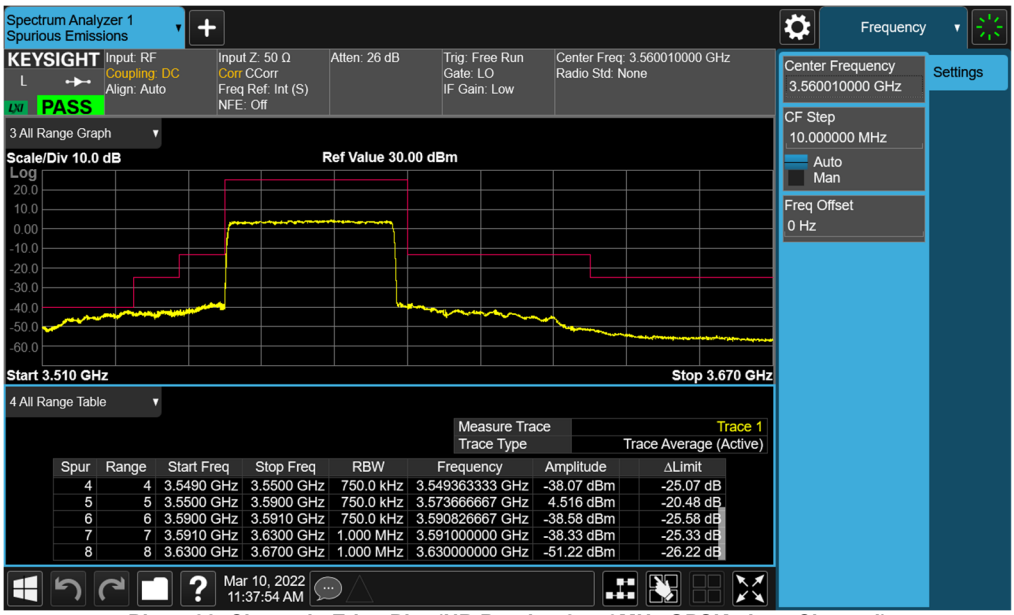
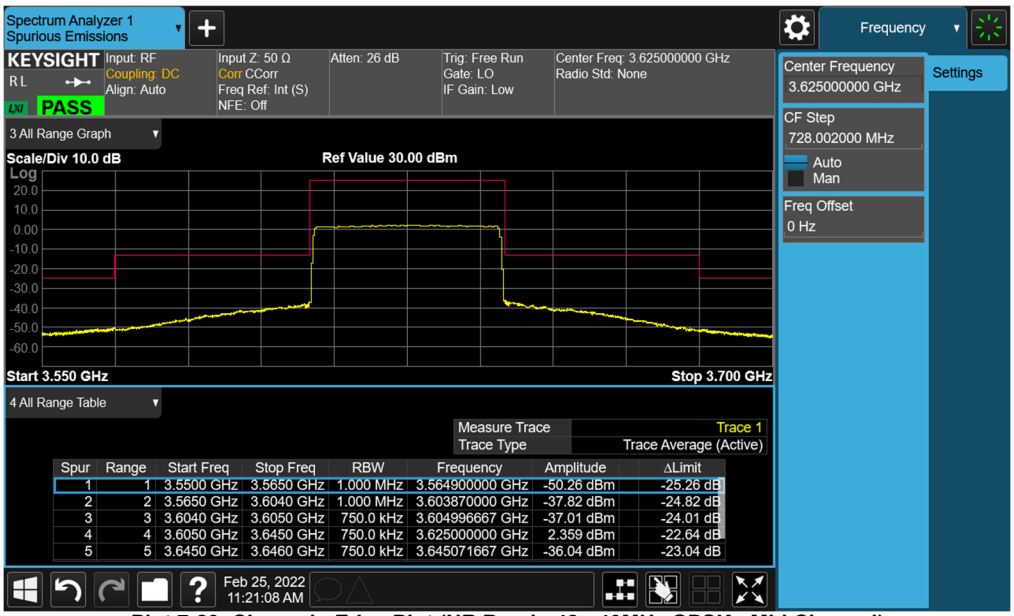


Figure 7-4. Test Instrument & Measurement Setup

NR Band n48



Plot 7-22. Channel - Edge Plot (NR Band n48 - 40MHz QPSK - Low Channel)



Plot 7-23. Channel - Edge Plot (NR Band n48 - 40MHz QPSK - Mid Channel)