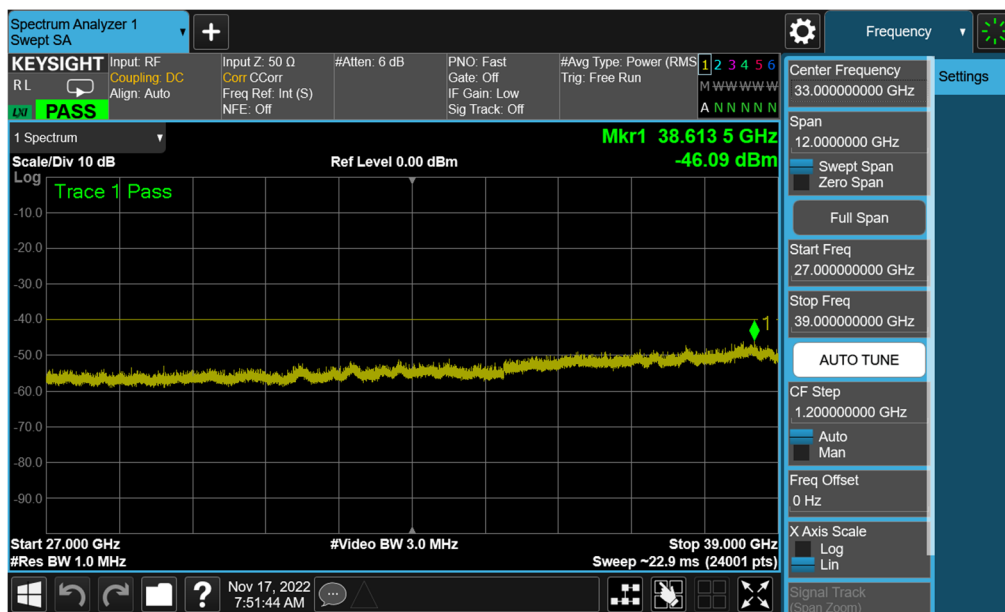
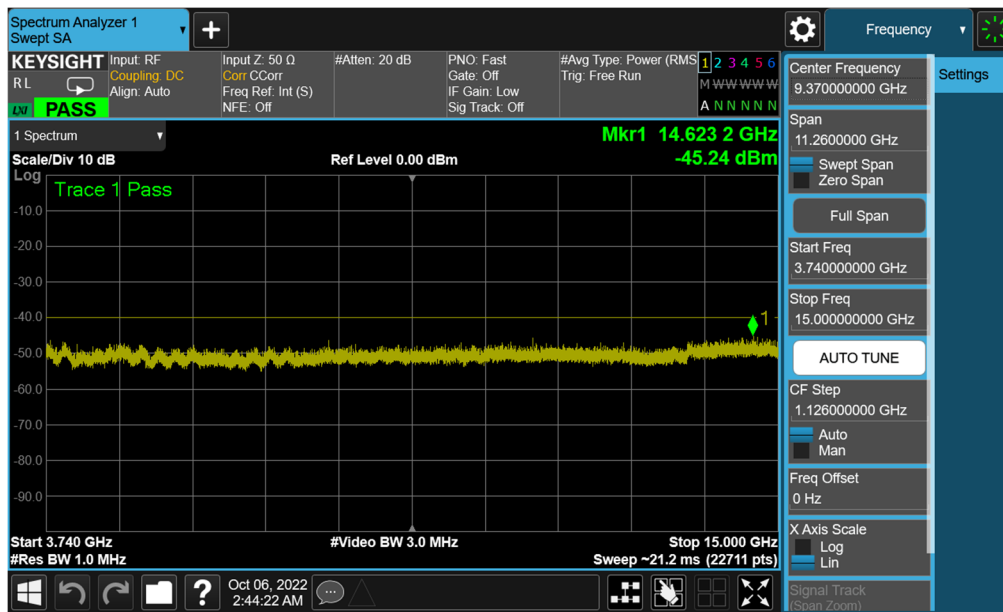
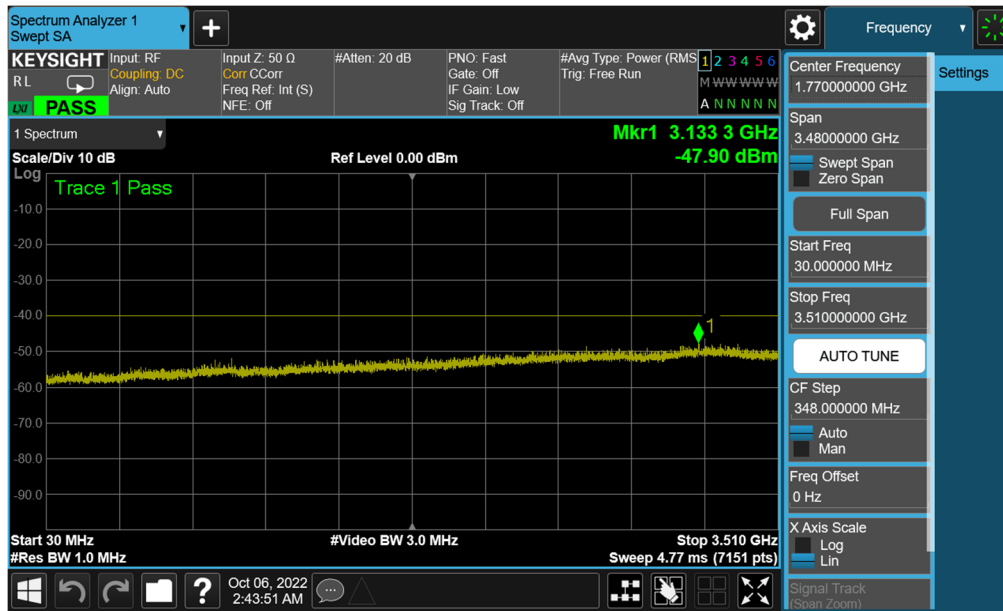


Plot 7-97. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - Low Channel – Ant D)

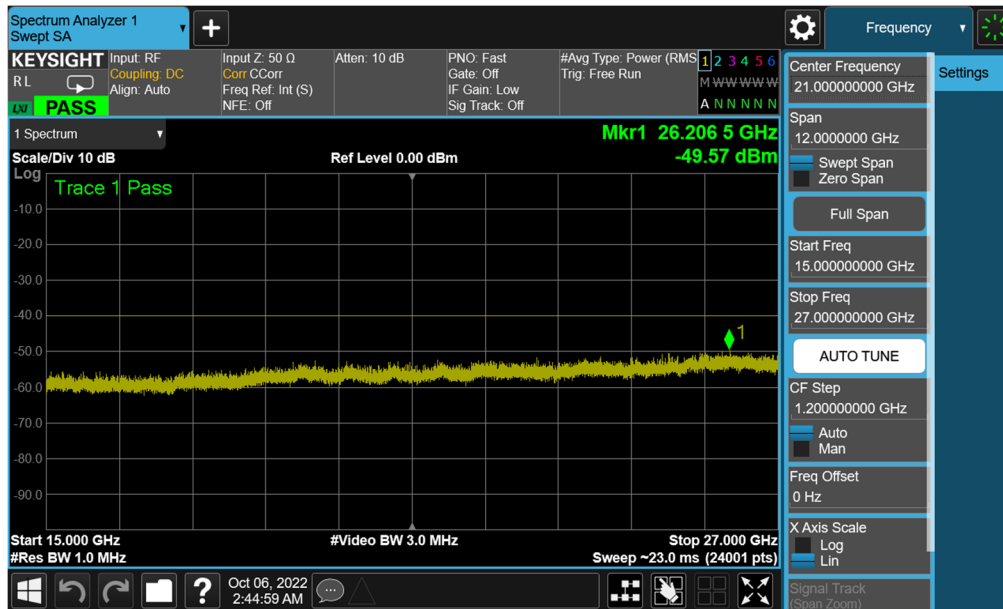


Plot 7-98. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - Low Channel – Ant D)

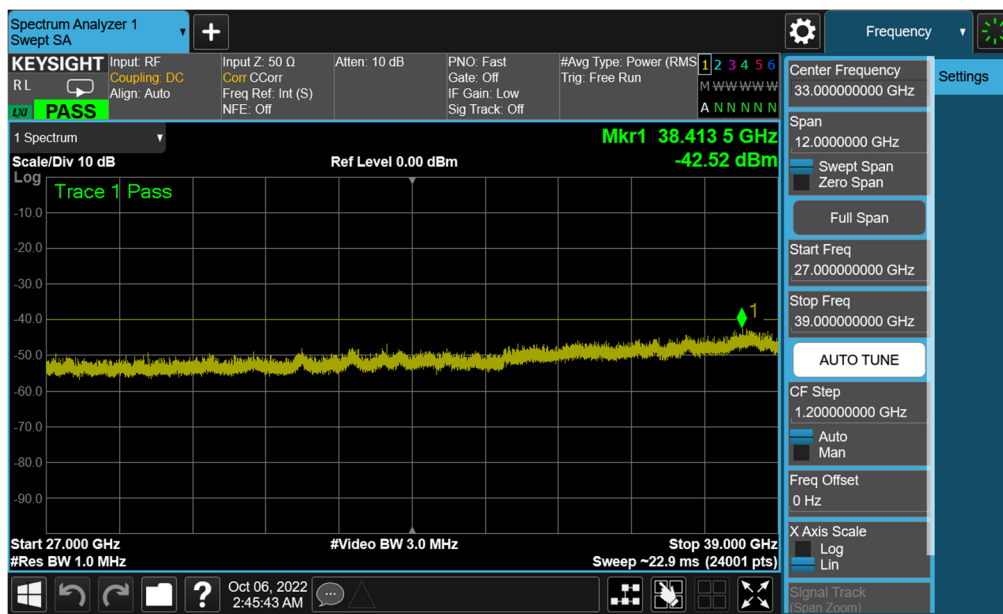
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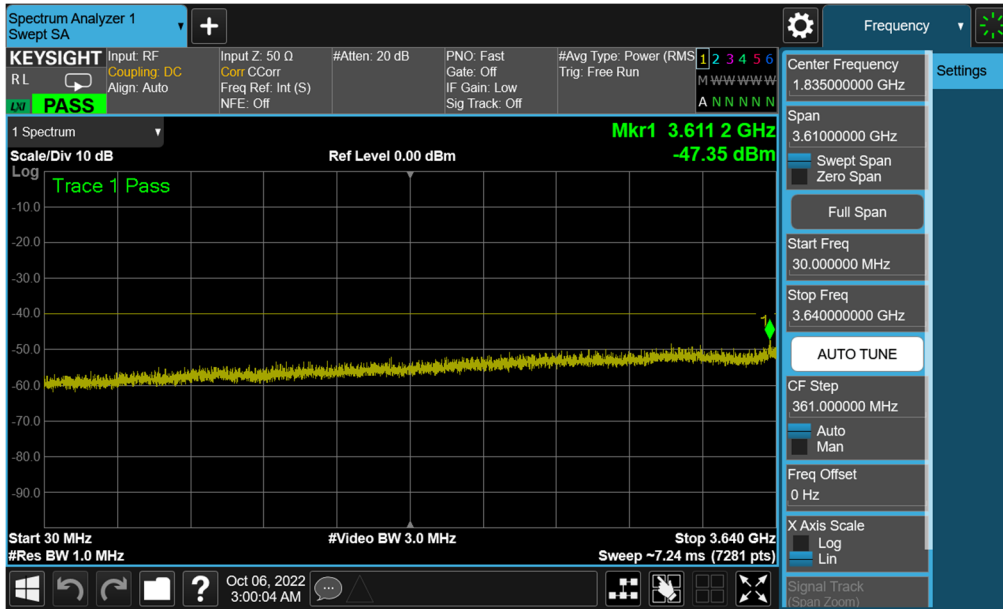


Plot 7-101. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - Mid Channel – Ant D)

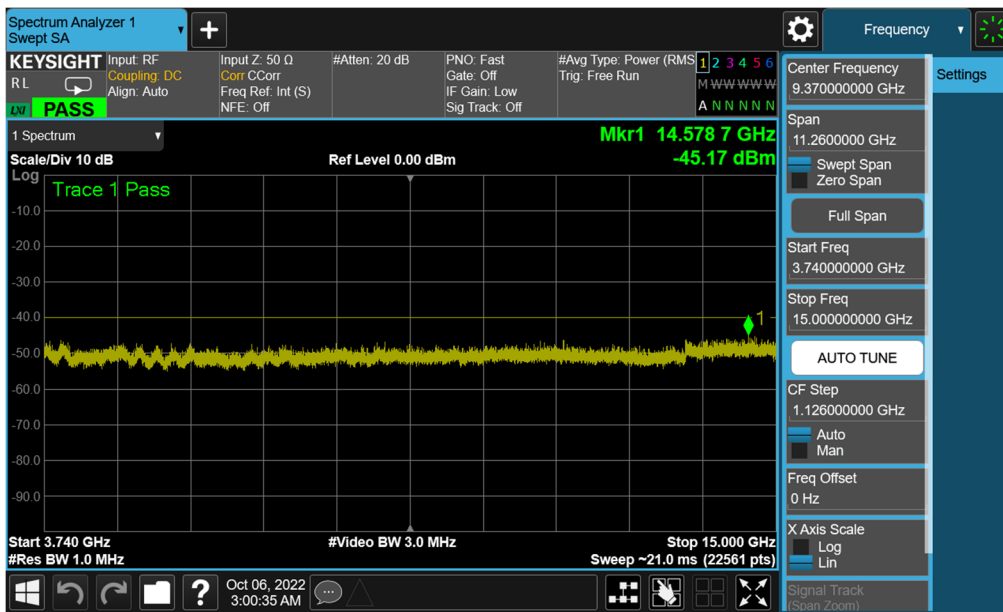


Plot 7-102. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - Mid Channel – Ant D)

FCC ID: A3LSMS918U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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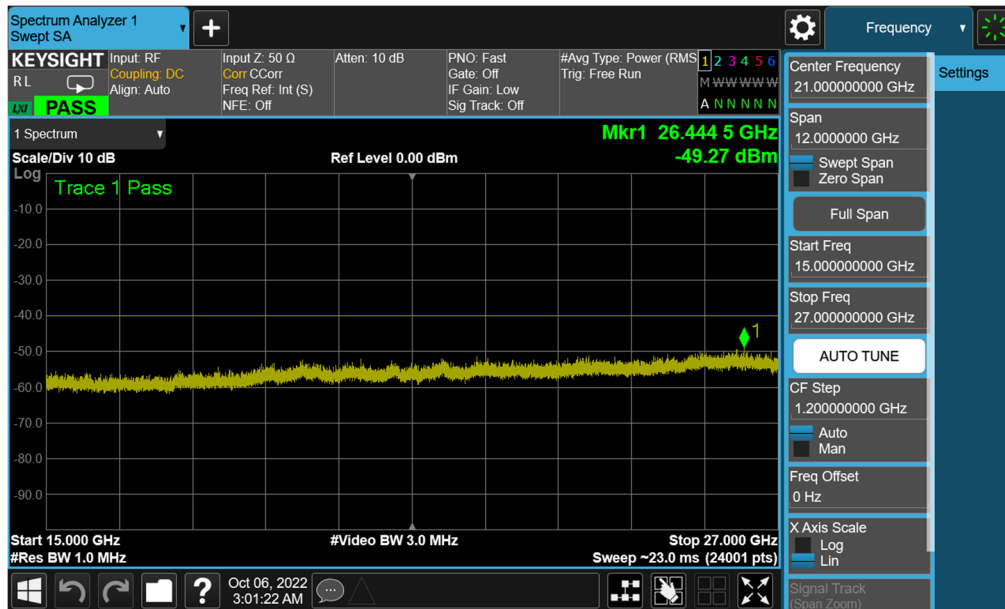


Plot 7-103. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - High Channel – Ant D)

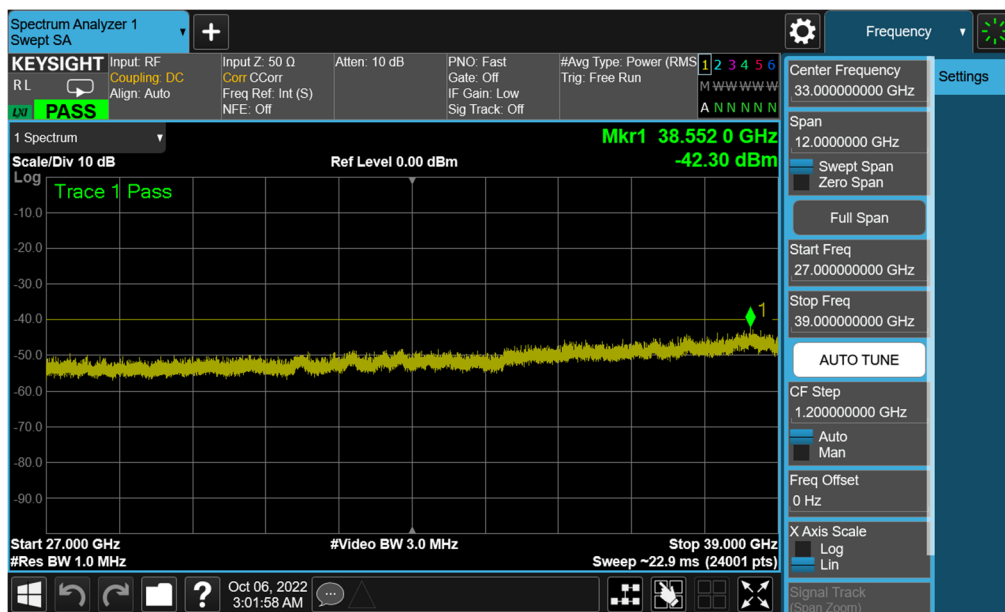


Plot 7-104. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - High Channel – Ant D)

FCC ID: A3LSMS918U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-105. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - High Channel – Ant D)



Plot 7-106. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - High Channel – Ant D)

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7.5 Band Edge Emissions at Antenna Terminal

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.

For an End User Device, 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 -40 dBm/MHz.

Test Procedure Used

ANSI C63.26-2015 – Section 5.7.3

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 \geq 1% of the emission bandwidth
4. VBW \geq 3 x RBW
5. Detector = RMS
6. Number of sweep points \geq 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.

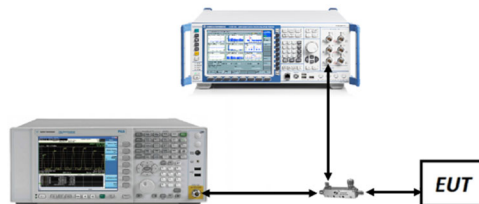


Figure 7-4. Test Instrument & Measurement Setup

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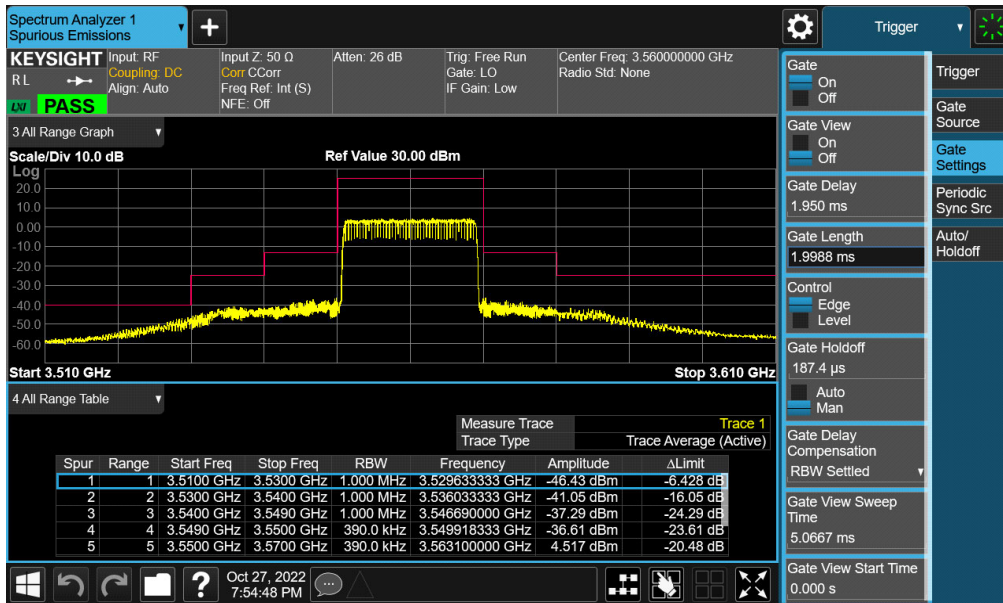
Test Notes

1. Per 96.41(e)(3)(i), compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's authorized frequency channel, a resolution bandwidth of no less than one percent of the fundamental emission bandwidth may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full reference bandwidth (i.e., 1 MHz or 1 percent of emission bandwidth, as specified). The fundamental emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

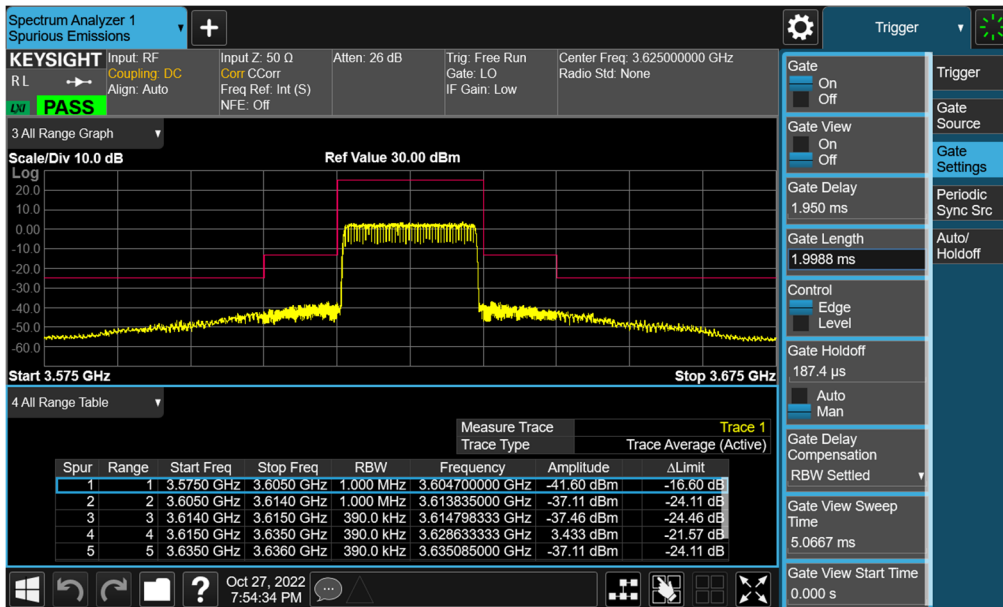
2. For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst-case configuration. All modes of operation were investigated and the worst-case configuration results are reported in this section.

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LTE Band 48

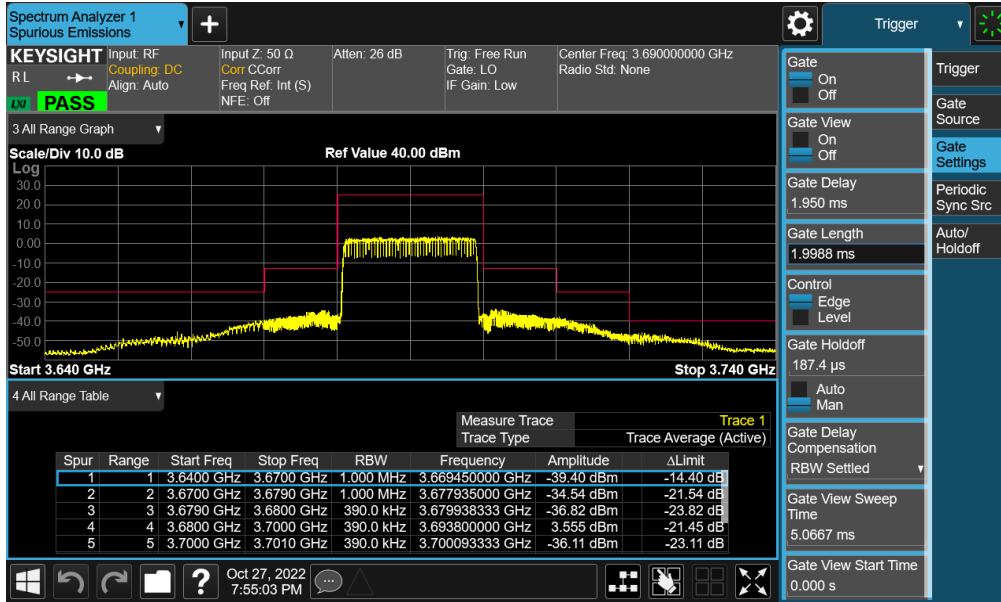


Plot 7-107. Channel Edge Plot (LTE Band 48 - 20MHz QPSK - Low Channel)

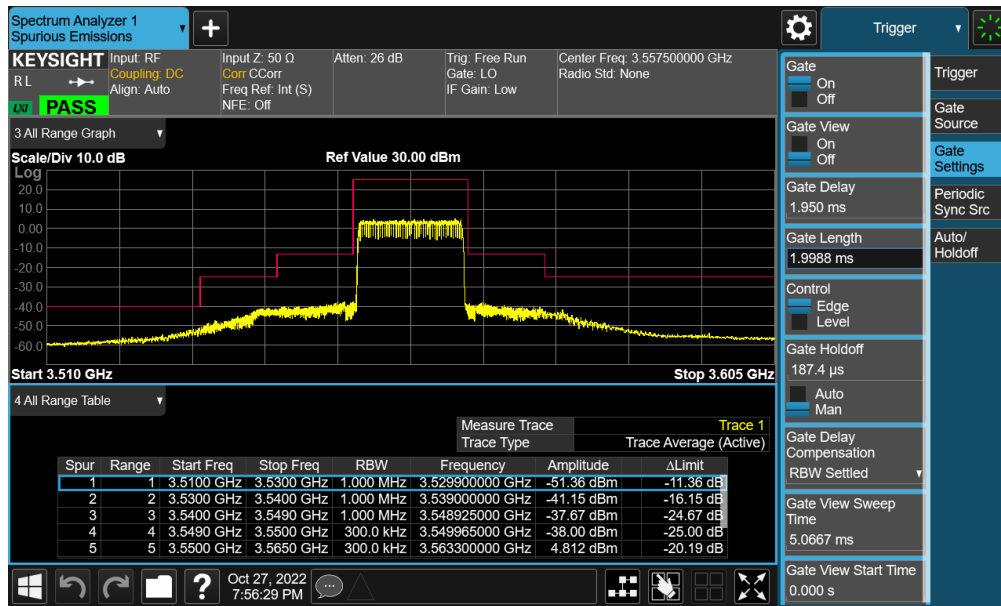


Plot 7-108. Channel Edge Plot (LTE Band 48 - 20MHz QPSK - Mid Channel)

FCC ID: A3LSMS918U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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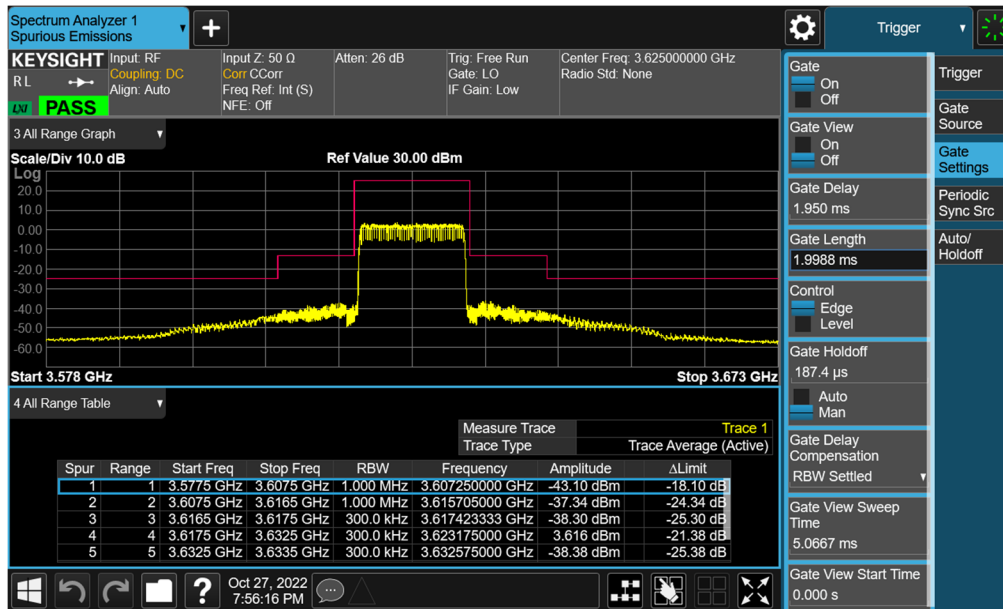


Plot 7-109. Channel Edge Plot (LTE Band 48 - 20MHz QPSK - High Channel)

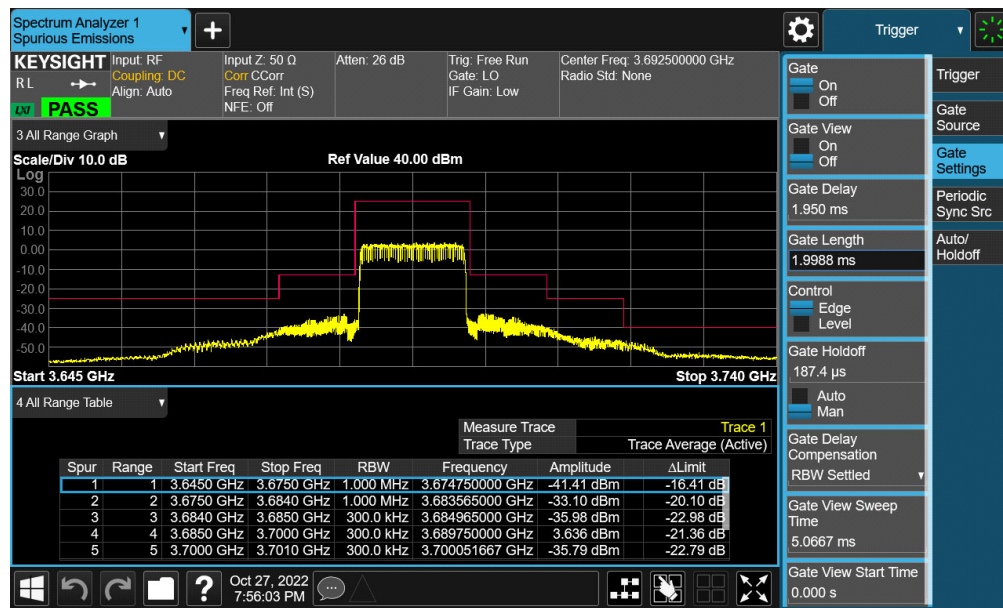


Plot 7-110. Channel Edge Plot (LTE Band 48 - 15MHz QPSK - Low Channel)

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Plot 7-111. Channel Edge Plot (LTE Band 48 - 15MHz QPSK - Mid Channel)



Plot 7-112. Channel Edge Plot (LTE Band 48 - 15MHz QPSK - High Channel)

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