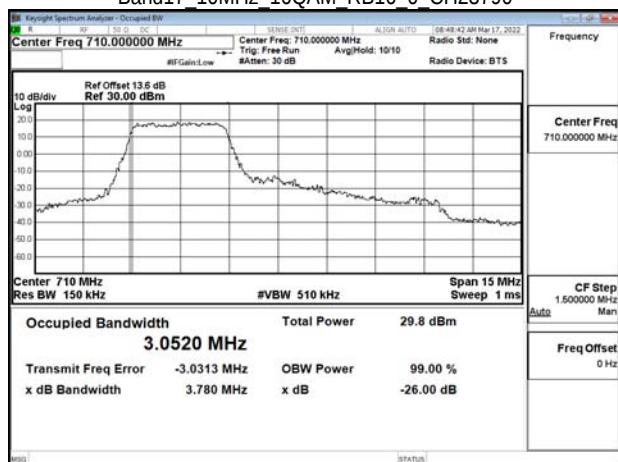
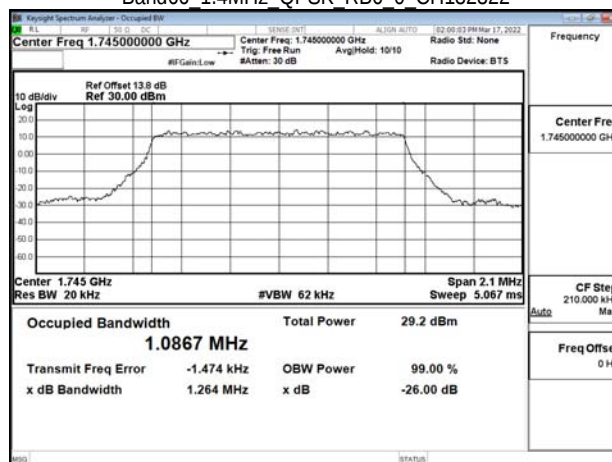


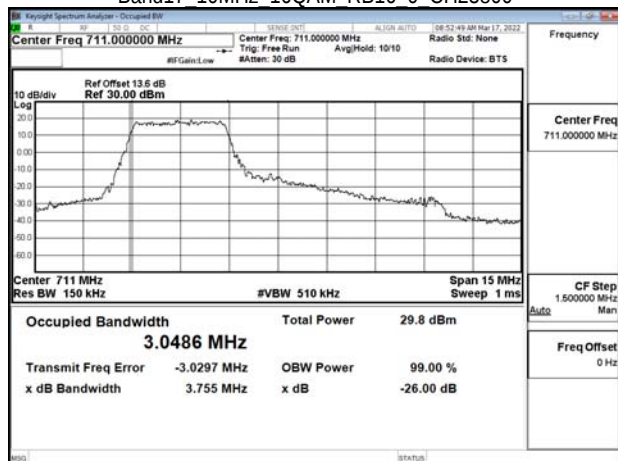
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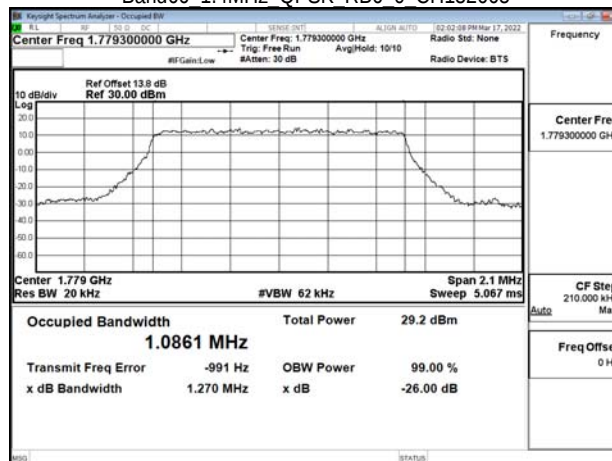
Band66 1.4MHz QPSK RB6 0 CH132322



Band17 10MHz 16QAM RB16 0 CH23800



Band66 1.4MHz QPSK RB6 0 CH132665



Band66 1.4MHz QPSK RB6 0 CH131979



Band66 1.4MHz 16QAM RB6 0 CH131979



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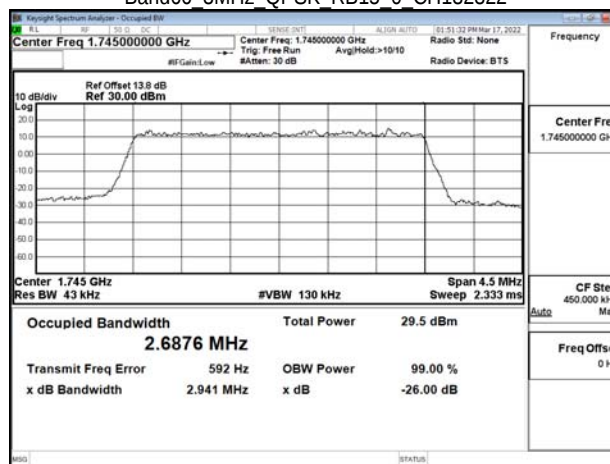
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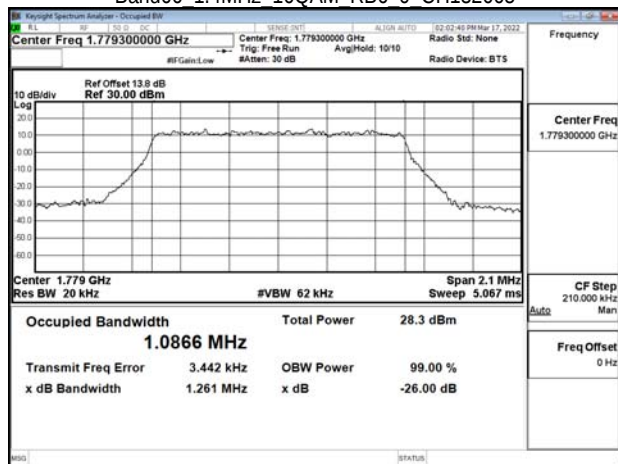
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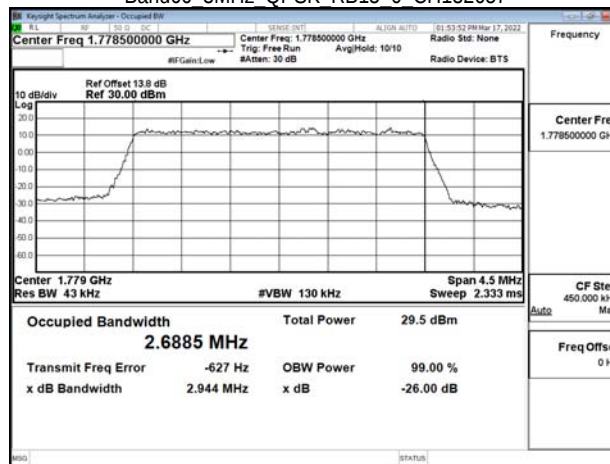
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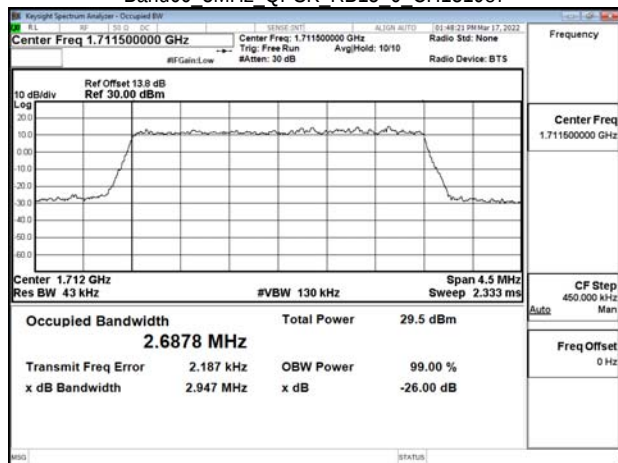
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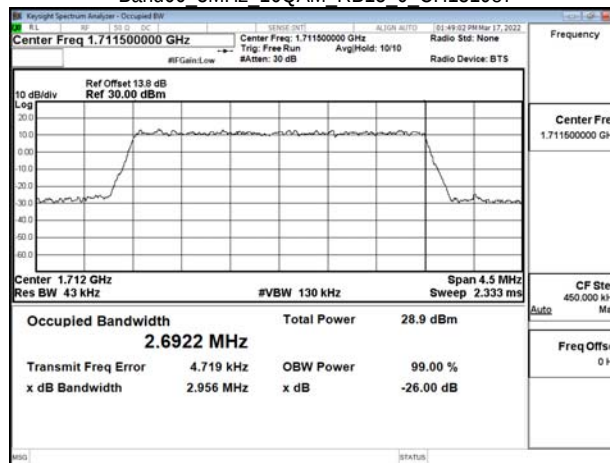
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Band66 3MHz QPSK RB15 0 CH131987



Band66 3MHz 16QAM RB15 0 CH131987

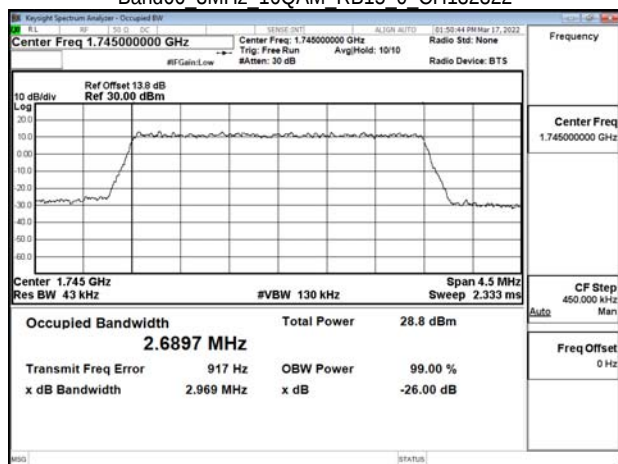


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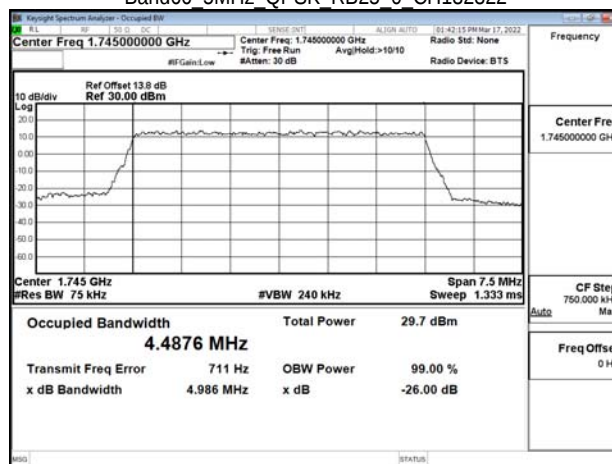
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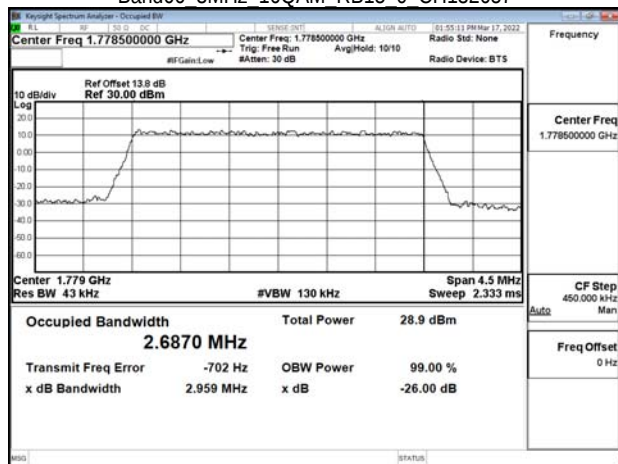
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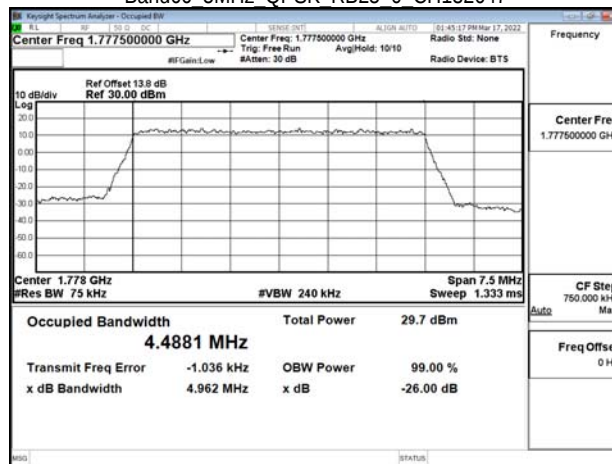
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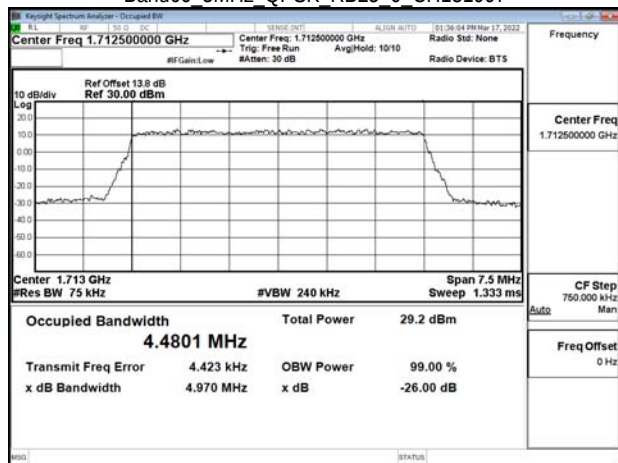
Band66 3MHz 16QAM RB15 0 CH132657



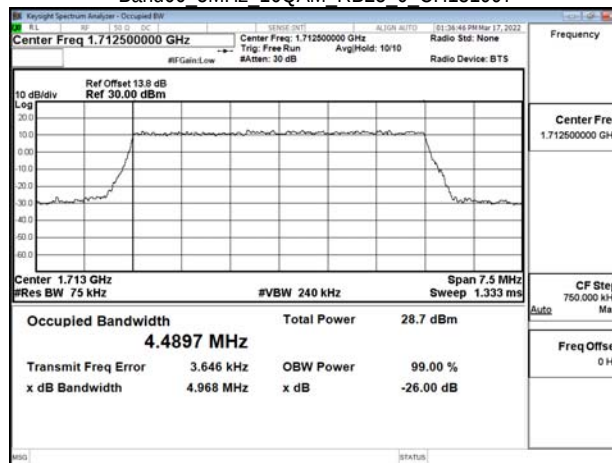
Band66 5MHz QPSK RB25 0 CH132647



Band66 5MHz QPSK RB25 0 CH131997



Band66 5MHz 16QAM RB25 0 CH131997

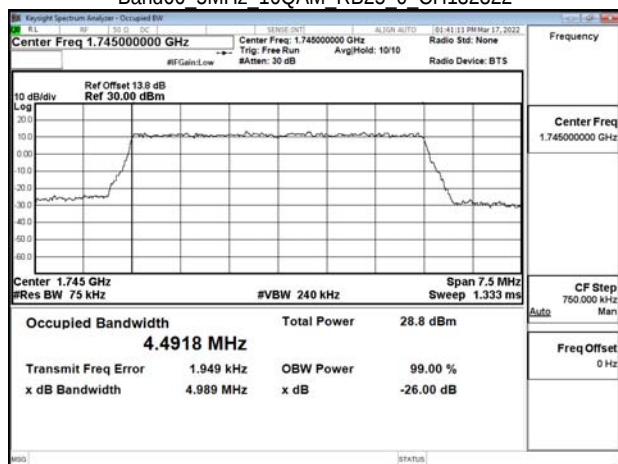


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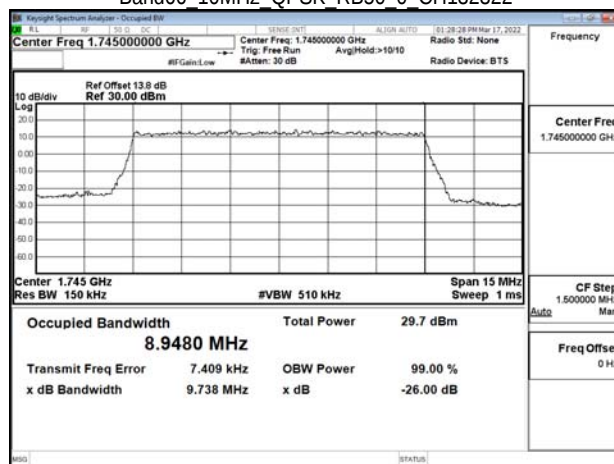
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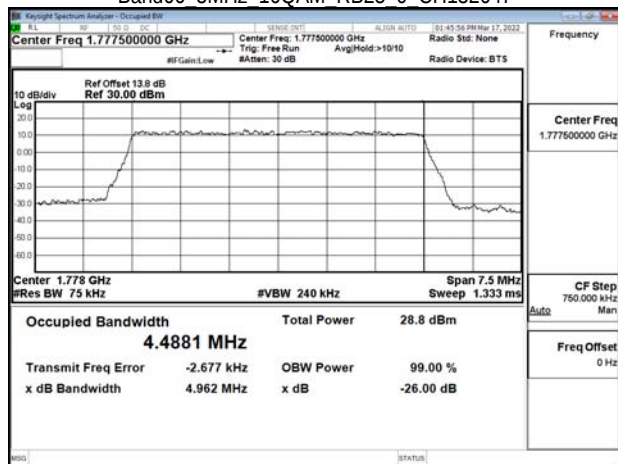
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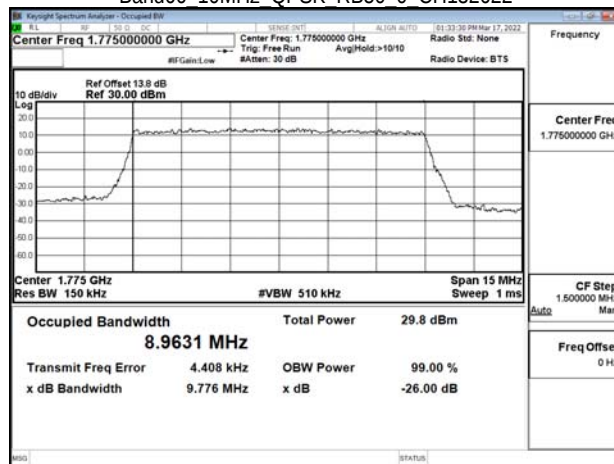
Band66 10MHz QPSK RB50 0 CH132322



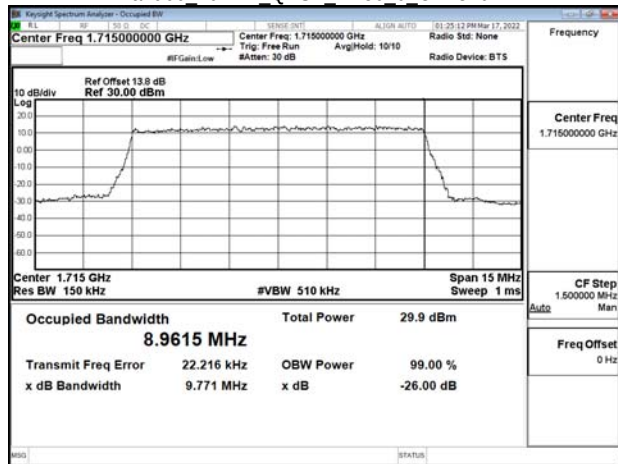
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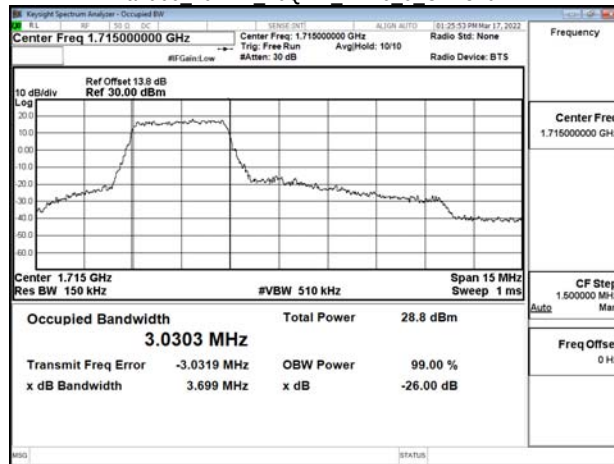
Band66 10MHz QPSK RB50 0 CH132622



Band66 10MHz QPSK RB50 0 CH132022



Band66 10MHz 16QAM RB16 0 CH132022



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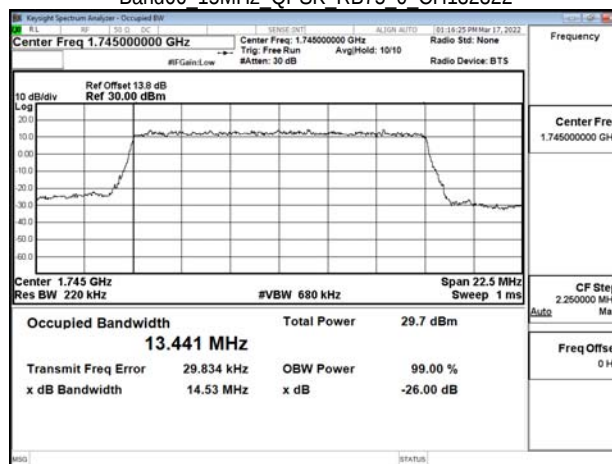
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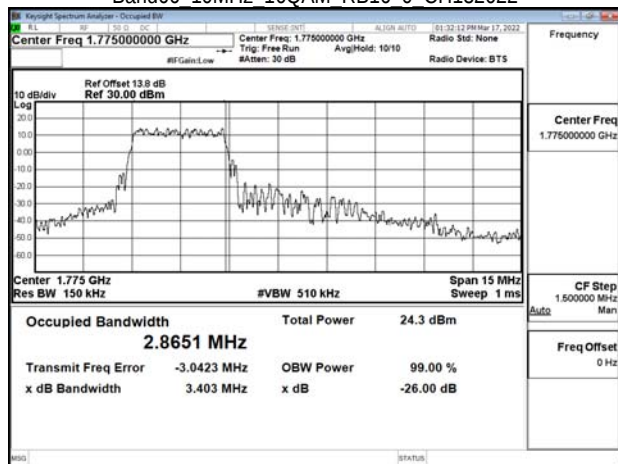
Band66 10MHz 16QAM RB16 0 CH132322



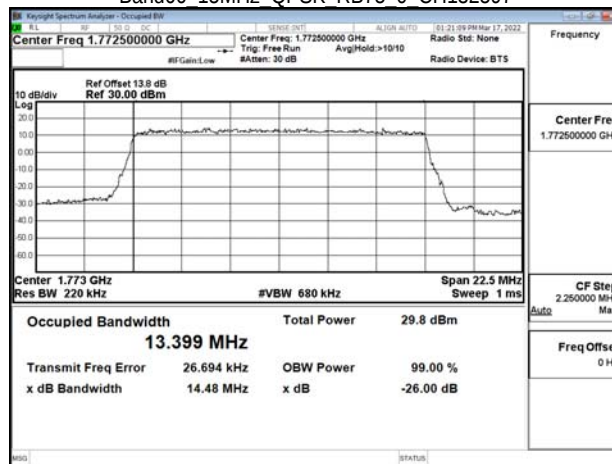
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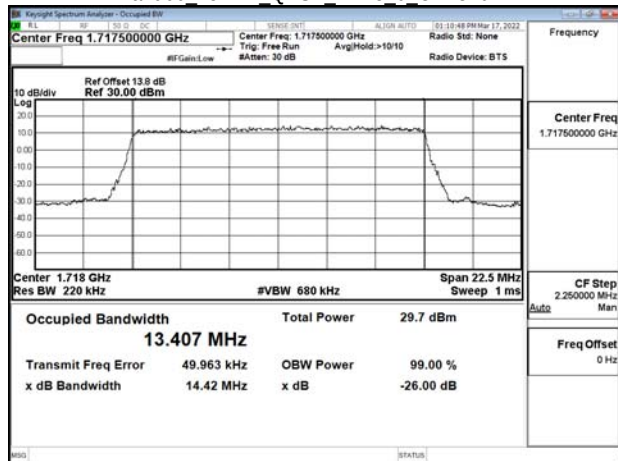
Band66 10MHz 16QAM RB16 0 CH132622



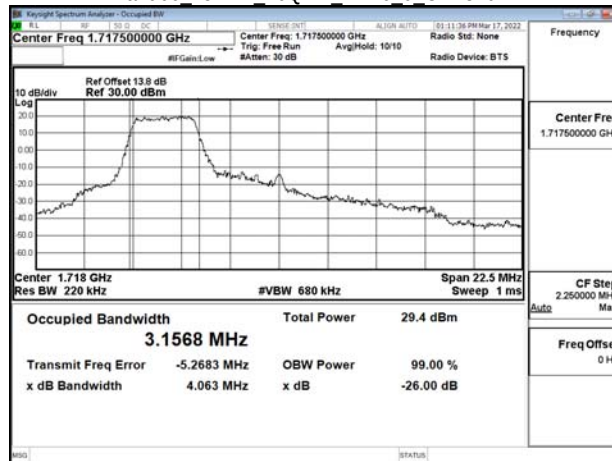
Band66 15MHz QPSK RB75 0 CH132597



Band66 15MHz QPSK RB75 0 CH132047



Band66 15MHz 16QAM RB16 0 CH132047

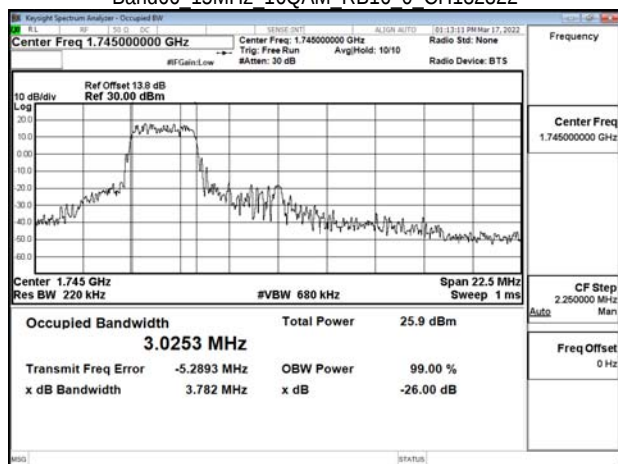


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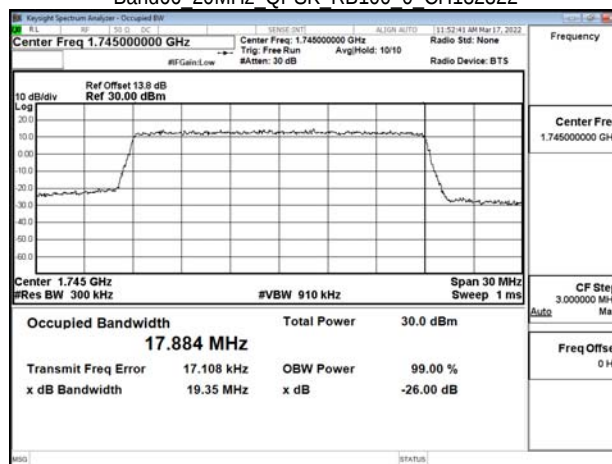
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Band66 15MHz 16QAM RB16_0 CH132322



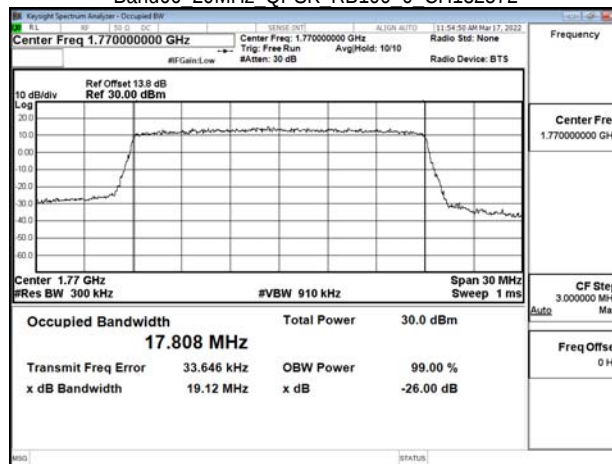
Band66 20MHz QPSK RB100_0 CH132322



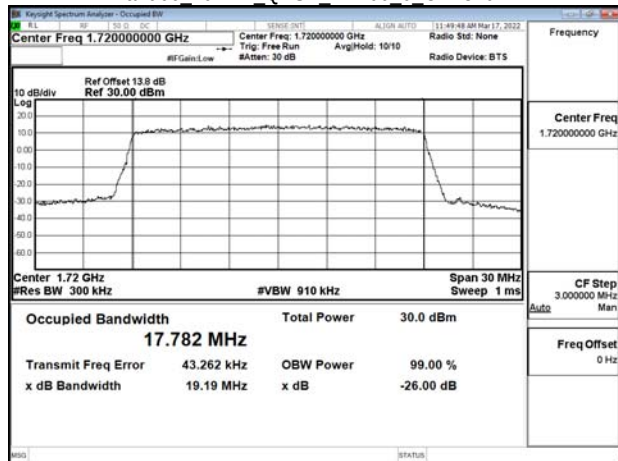
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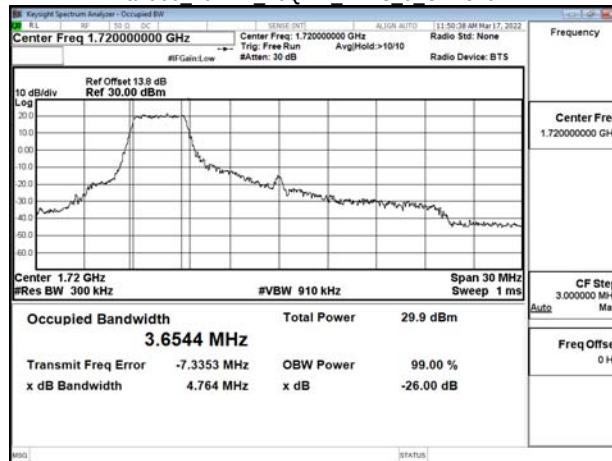
Band66 20MHz QPSK RB100_0 CH132572



Band66 20MHz QPSK RB100_0 CH132072



Band66 20MHz 16QAM RB18_0 CH132072



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Band66 20MHz 16QAM RB18_0 CH132322



Band66 20MHz 16QAM RB18_0 CH132572



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9 OUT OF BAND EMISSION AT ANTENNA TERMINALS

9.1 Standard Applicable

FCC §22.917(a), §24.238(a), §27.53(h)

RSS-130 §4.7, RSS-132 §5.5, RSS-133 §6.5.1, RSS-139 §6.6

Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

FCC §27.53(c)

For operations in the 746–758 MHz band and the 776–788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

(2) On any frequency outside the 776–788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB (-13dBm)

(4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $65 + 10 \log(P)$ dB in a 6.25 kHz band segment, for mobile and portable stations;

FCC §27.53(g)

Compliance for operations in the 600 MHz, 698-746 MHz, 746-758 MHz and the 776-788 MHz band with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

(2) On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB;

(3) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $76 + 10 \log(P)$ dB in a 6.25 kHz band segment, for base and fixed stations;

(4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $65 + 10 \log(P)$ dB in a 6.25 kHz band segment, for mobile and portable stations;

ISED RSS-130 §4.7.1

Compliance for operations in the 617-652 MHz, 663-698 MHz, 698-756 MHz and the 777-787 MHz band, the unwanted emissions in any 100 kHz bandwidth on any frequency outside the low frequency edge and the high frequency edge of each frequency block range(s), shall be attenuated below the transmitter power, P (dBW), by at least $43 + 10 \log_{10} p$ (watts), dB. However, in the 100 kHz band immediately outside of the equipment's frequency block range, a resolution bandwidth of 30 kHz may be employed.

ISED RSS-130 §4.7.2

In addition to the limit outlined in section 4.7.1 above, equipment operating in the frequency bands 746-756 MHz and 777-787 MHz shall also comply with the following restrictions:

the power of any unwanted emissions in any 6.25 kHz bandwidth for all frequencies between 763-775 MHz and 793-806 MHz shall be attenuated below the transmitter power, P (dBW), by at least:

$76 + 10 \log_{10} p$ (watts), dB, for base and fixed equipment and

$65 + 10 \log_{10} p$ (watts), dB, for mobile and portable equipment

the e.i.r.p. in the band 1559-1610 MHz shall not exceed -70 dBW/MHz for wideband signal and -80 dBW for discrete emission with bandwidth less than 700 Hz.

ISED RSS-132 §5.5

Mobile and base station equipment shall comply with the limits in (i) and (ii) below.

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- i. In the first 1.0 MHz band immediately outside and adjacent to each of the sub-bands specified in Section 5.1, the power of emissions per any 1% of the occupied bandwidth shall be attenuated (in dB) below the transmitter output power P (dBW) by at least $43 + 10 \log_{10} p$ (watts).
- ii. After the first 1.0 MHz immediately outside and adjacent to each of the sub-bands, the power of emissions in any 100 kHz bandwidth shall be attenuated (in dB) below the transmitter output power P (dBW) by at least $43 + 10 \log_{10} p$ (watts). If the measurement is performed using 1% of the occupied bandwidth, power integration over 100 kHz is required.

ISED RSS-133 §6.5.1

Equipment shall comply with the limits in (i) and (ii) below.

- i. In the 1.0 MHz bands immediately outside and adjacent to the equipment's operating frequency block, the emission power per any 1% of the emission bandwidth shall be attenuated (in dB) below the transmitter output power P (dBW) by at least $43 + 10 \log_{10} p$ (watts).
- ii. After the first 1.0 MHz, the emission power in any 1 MHz bandwidth shall be attenuated (in dB) below the transmitter output power P (dBW) by at least $43 + 10 \log_{10} p$ (watts). If the measurement is performed using 1% of the emission bandwidth, power integration over 1.0 MHz is required.

FCC §27.53(h)(1)

(h) *AWS emission limits*—(1) *General protection levels*. Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10} (P)$ dB.

RSS-139 §6.6

In the first 1.0 MHz bands immediately outside and adjacent to the equipment's smallest operating frequency block, Footnote 2 which can contain the equipment's occupied bandwidth, the emission power per any 1% of the emission bandwidth shall be attenuated below the transmitter output power P (in dBW) by at least $43 + 10 \log_{10} p$ (watts) dB.

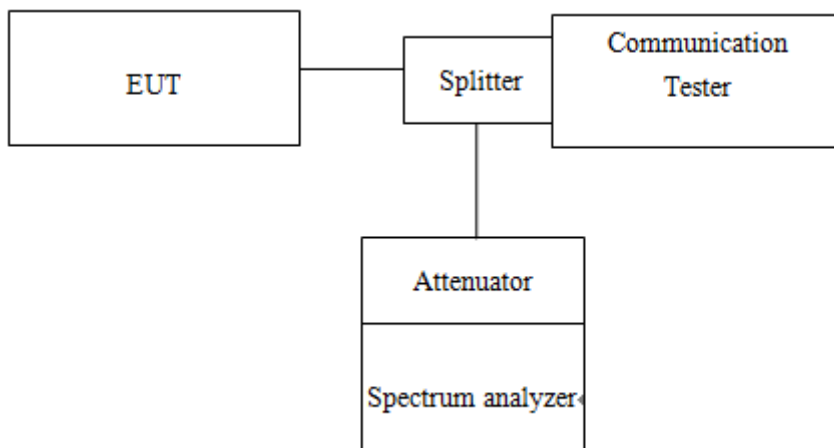
After the first 1.0 MHz outside the equipment's smallest operating frequency block, which can contain the equipment's occupied bandwidth, the emission power in any 1 MHz bandwidth shall be attenuated below the transmitter output power P (in dBW) by at least $43 + 10 \log_{10} p$ (watts) dB.

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9.2 Test SET-UP



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9.3 Measurement Procedure

9.3.1 Conducted Emission

The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation. The resolution bandwidth of the spectrum analyzer was set at 1MHz, sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic.

1. To connect Antenna Port of EUT to Spectrum.
2. Set RBW = 1MHz & VBW = 1MHz on Spectrum.
3. Allow trace to fully stabilize
4. Repeat above procedures until all default test channel measured were complete.

9.3.2 Band Edge

1. To connect Antenna Port of EUT to Spectrum.
2. The band edge of low and high channels for the highest RF powers was measured. Setting RBW $\geq$ 1% EBW.
3. Allow trace to fully stabilize
4. Repeat above procedures until all default test channel measured were complete.

9.4 Band Edge Measurement Result:

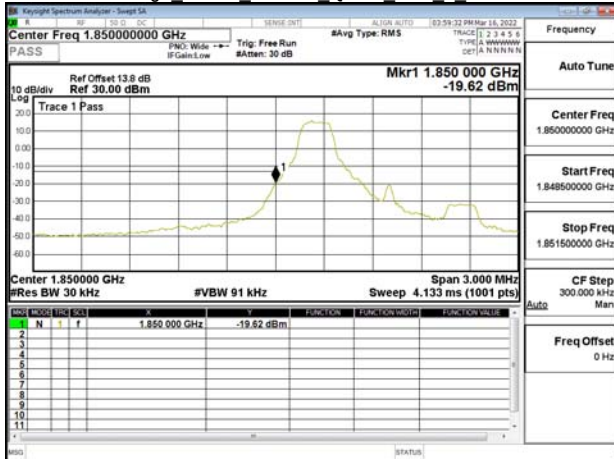
Refer to next pages.

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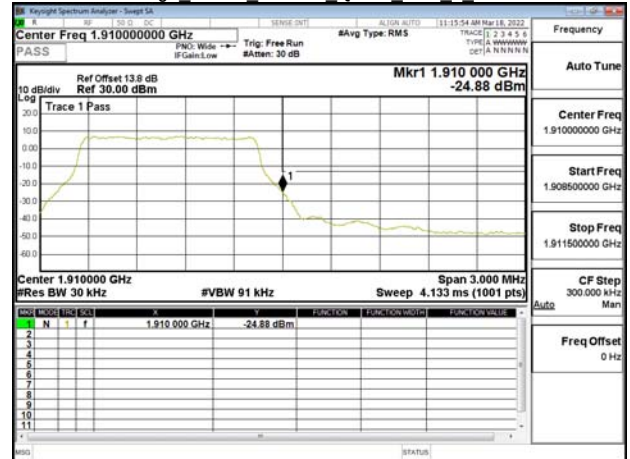
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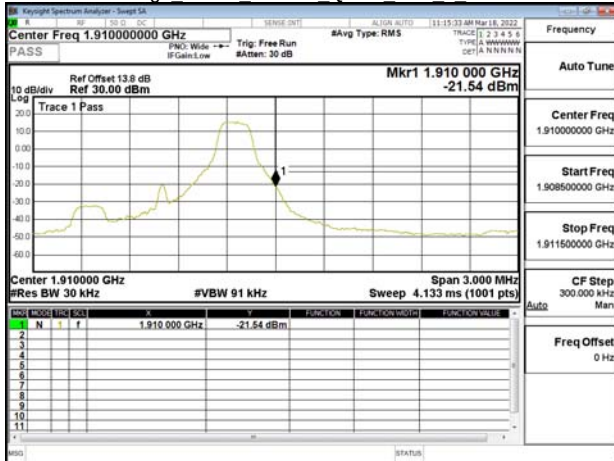
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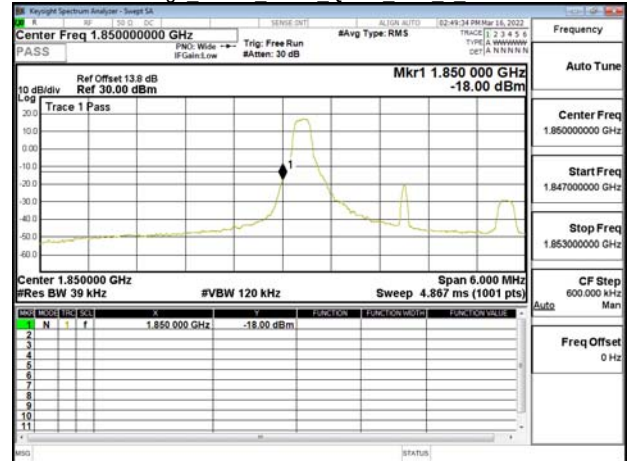
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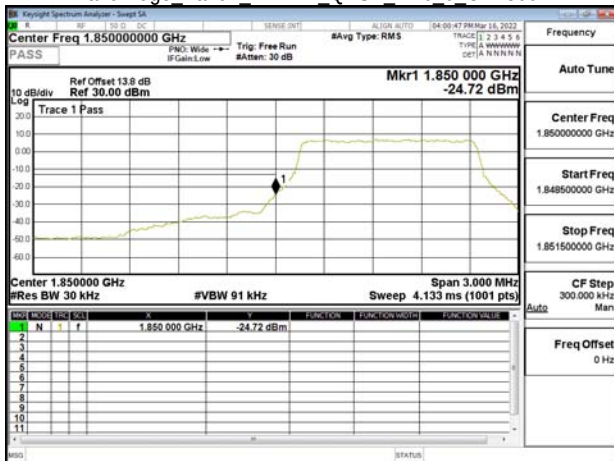
Band Edge Band2 1.4MHz QPSK RB1 5 CH19193



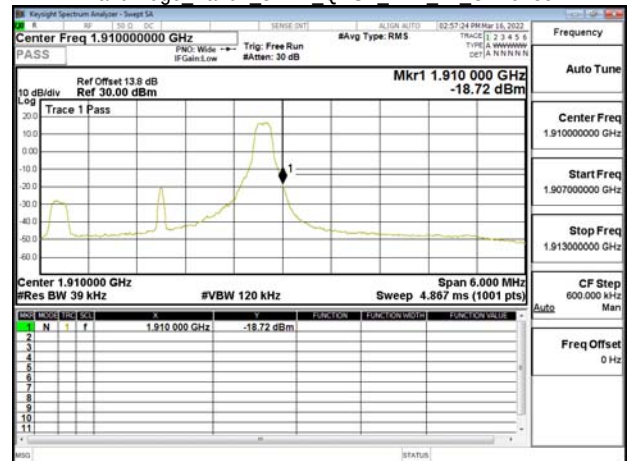
Band Edge Band2 3MHz QPSK RB1 0 CH18615



Band Edge Band2 1.4MHz QPSK RB6 0 CH18607



Band Edge Band2 3MHz QPSK RB1 14 CH19185

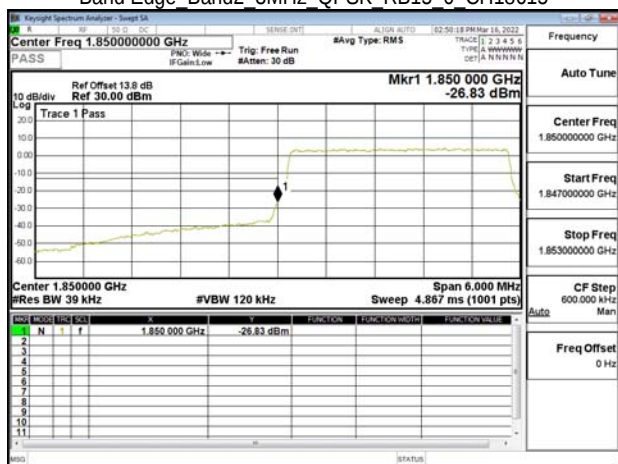


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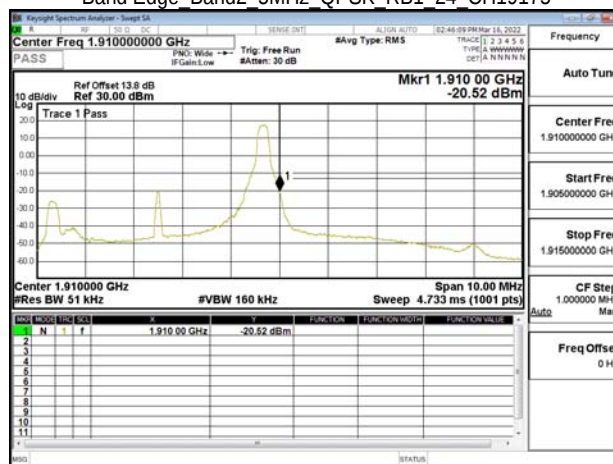
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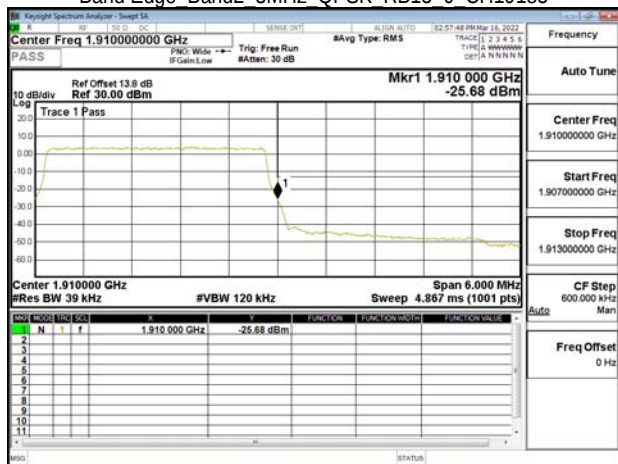
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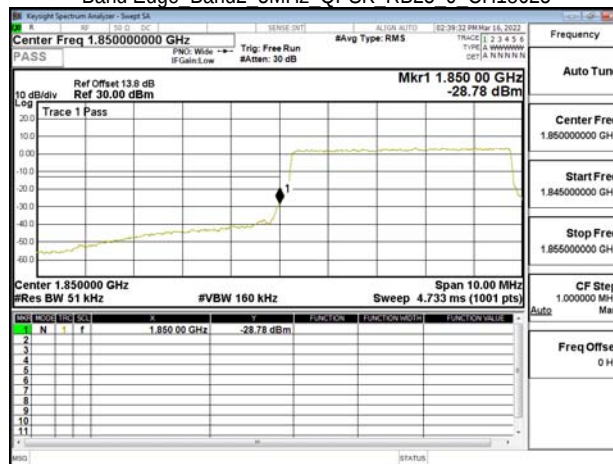
Band Edge Band2 5MHz QPSK RB1 24 CH19175



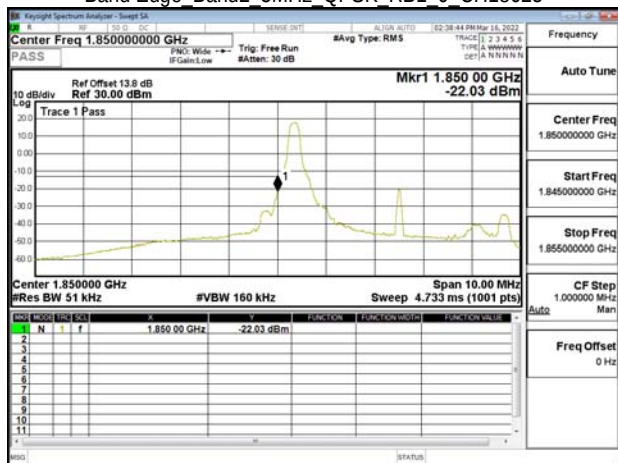
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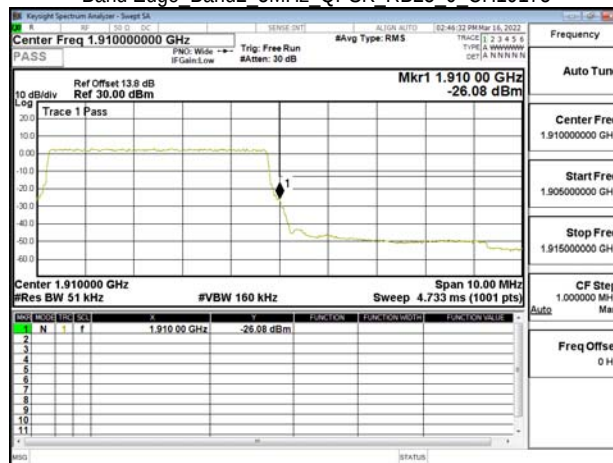
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Band Edge Band2 5MHz QPSK RB1 0 CH18625



Band Edge Band2 5MHz QPSK RB25 0 CH19175

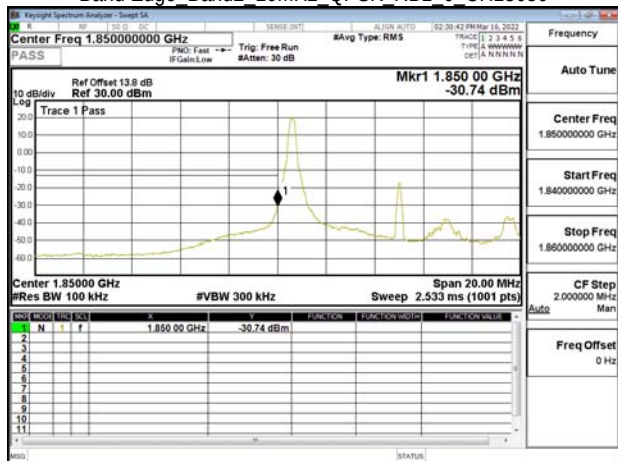


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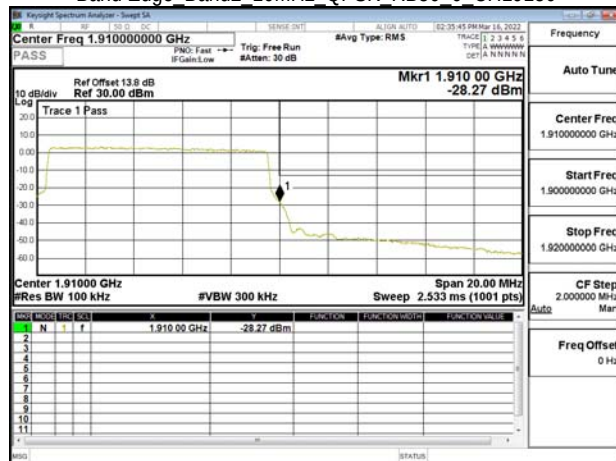
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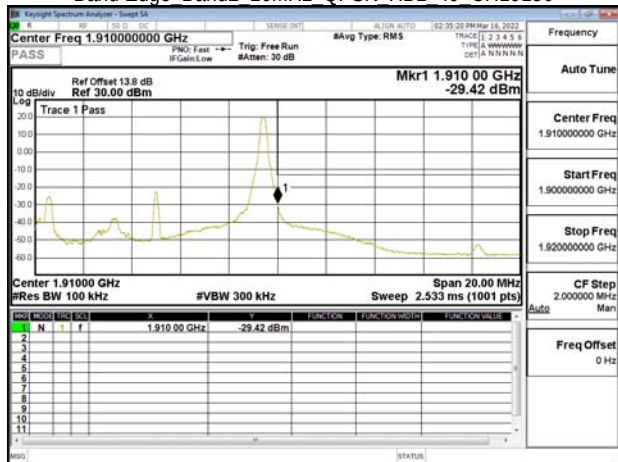
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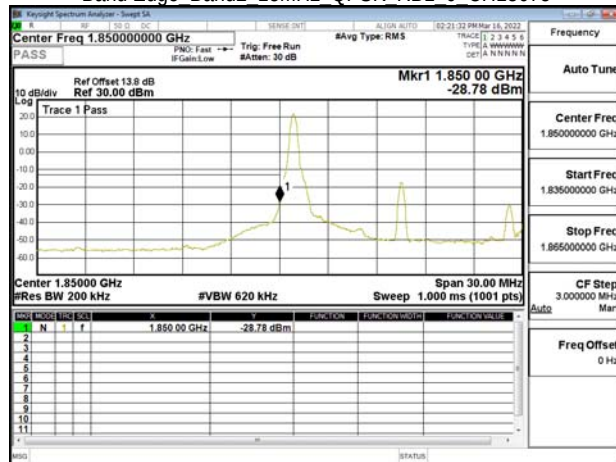
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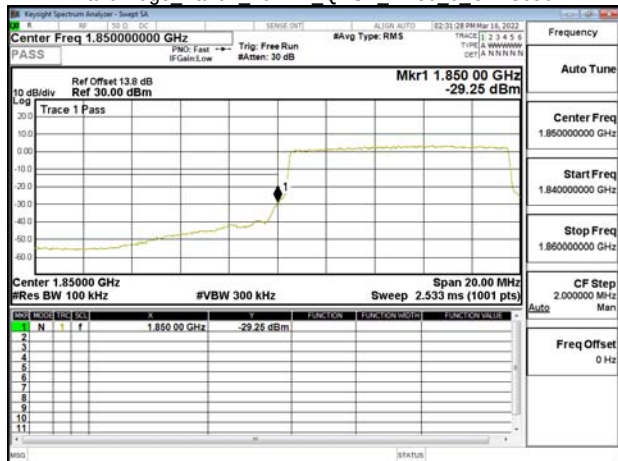
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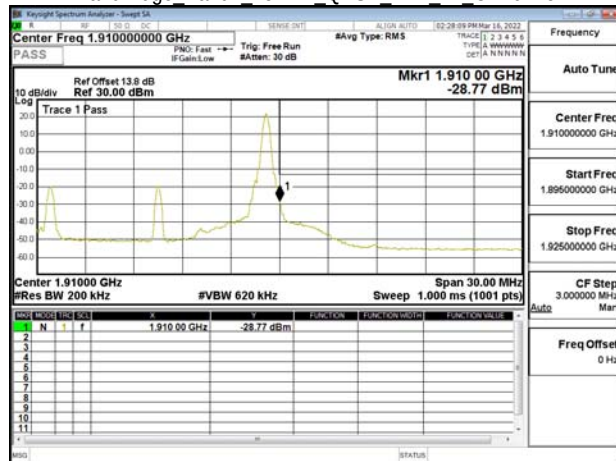
Band Edge Band2 15MHz QPSK RB1 0 CH18675



Band Edge Band2 10MHz QPSK RB50 0 CH18650



Band Edge Band2 15MHz QPSK RB1 74 CH19125

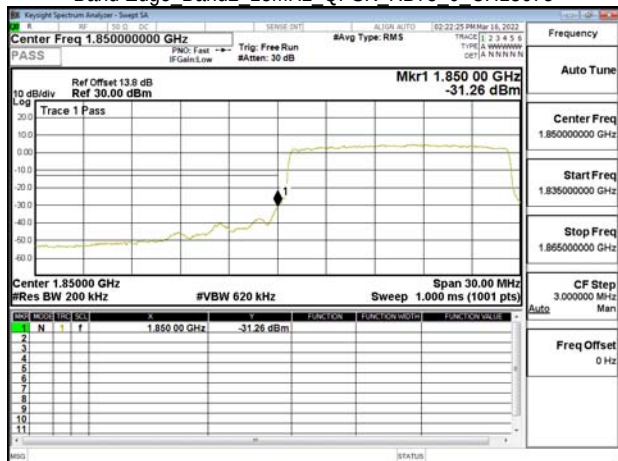


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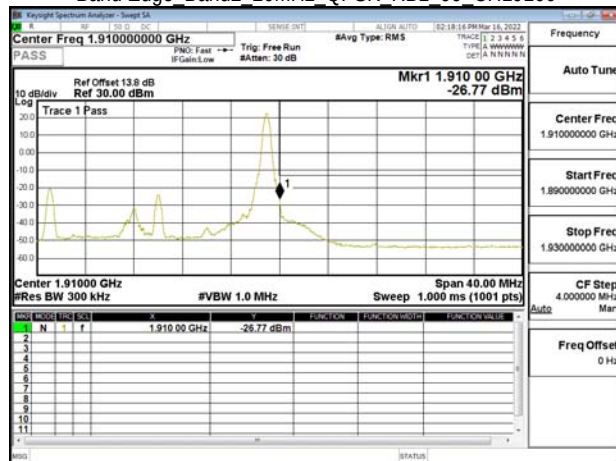
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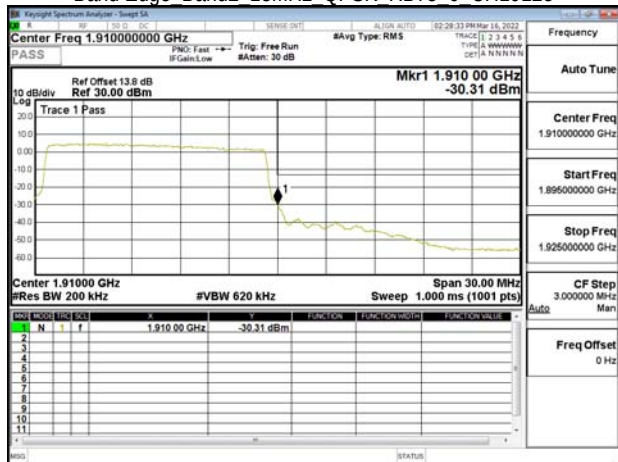
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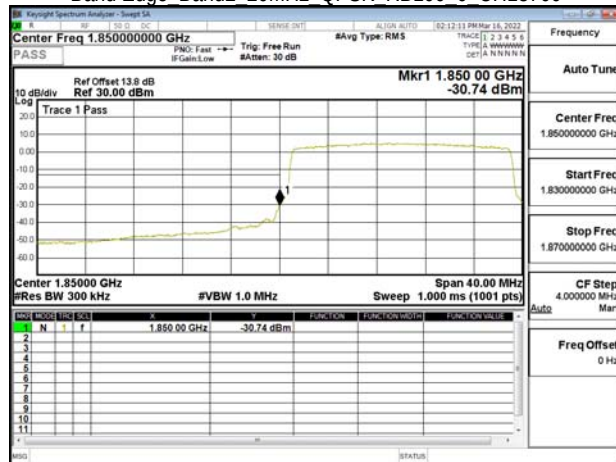
Band Edge Band2 20MHz QPSK RB1 99 CH19100



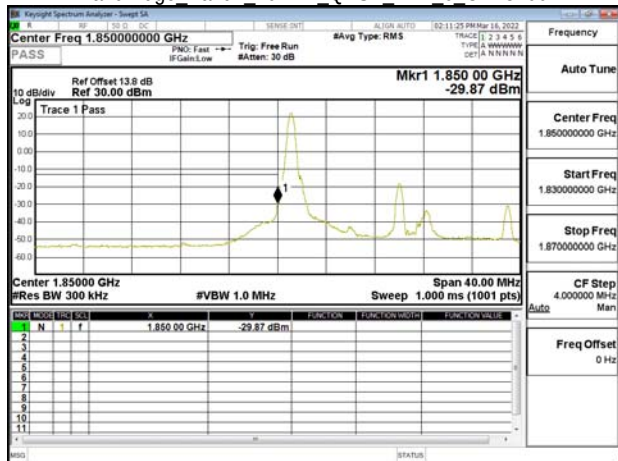
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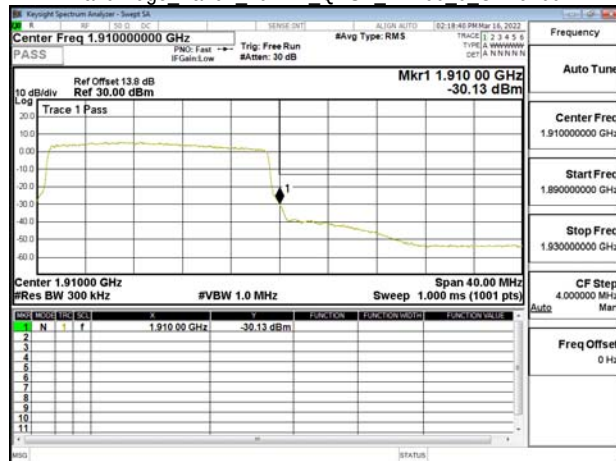
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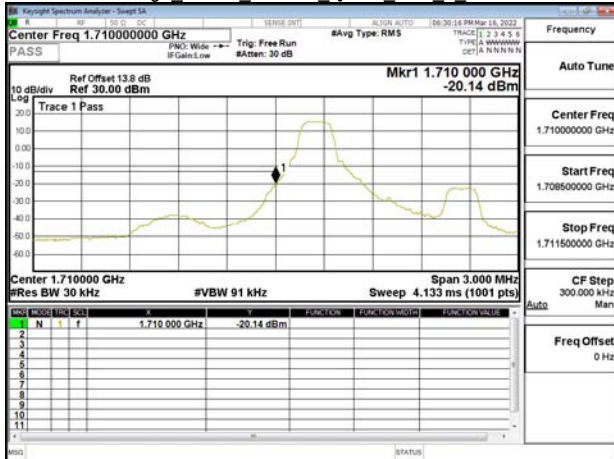


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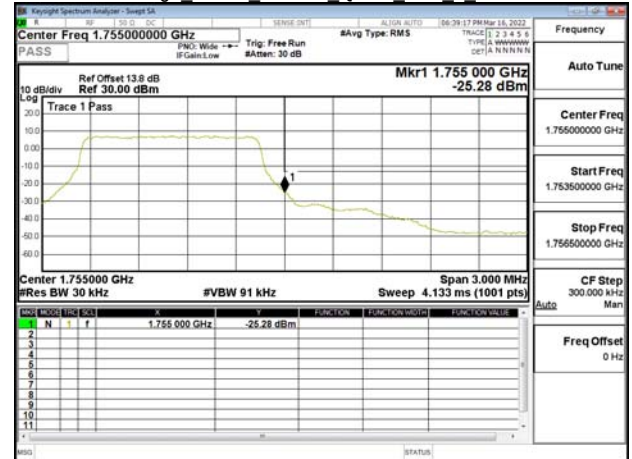
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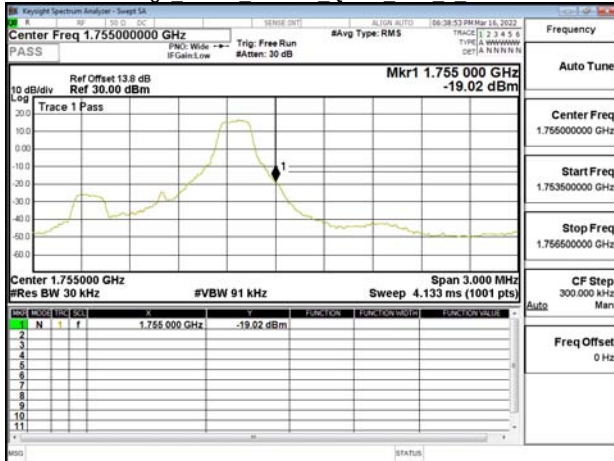
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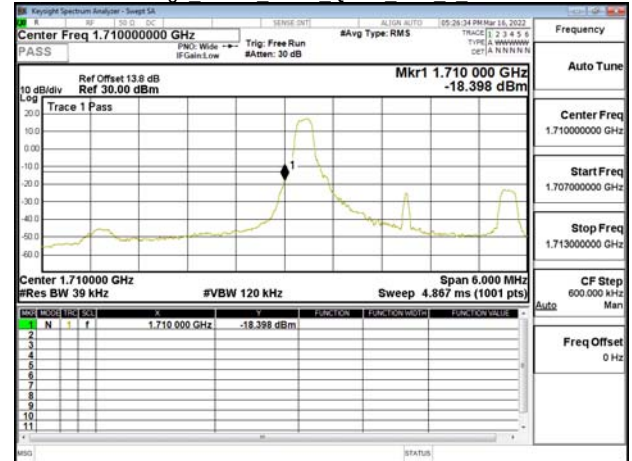
Band Edge Band4 1.4MHz QPSK RB6 0 CH20393



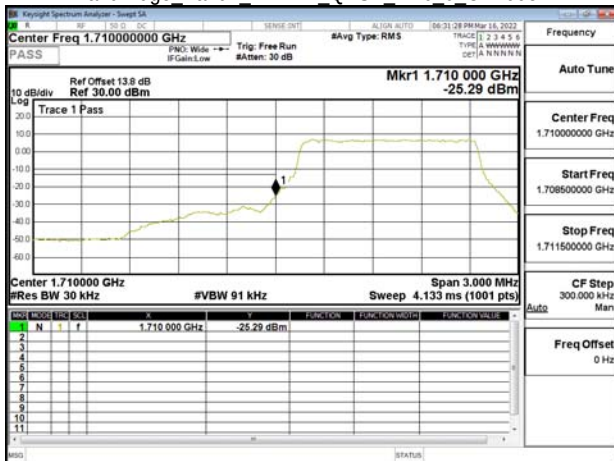
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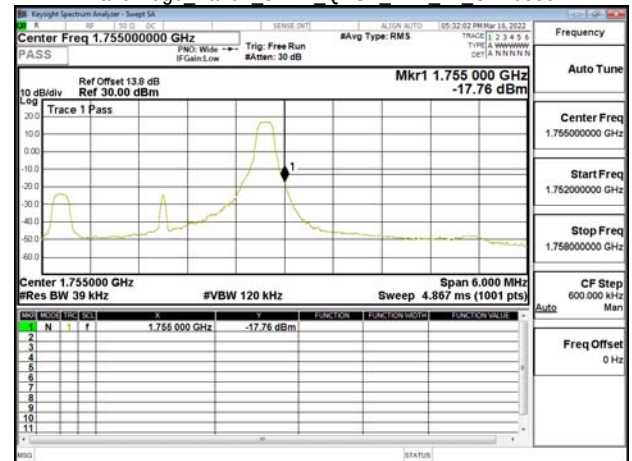
Band Edge Band4 3MHz QPSK RB1 0 CH19965



Band Edge Band4 1.4MHz QPSK RB6 0 CH19957



Band Edge Band4 3MHz QPSK RB1 14 CH20385

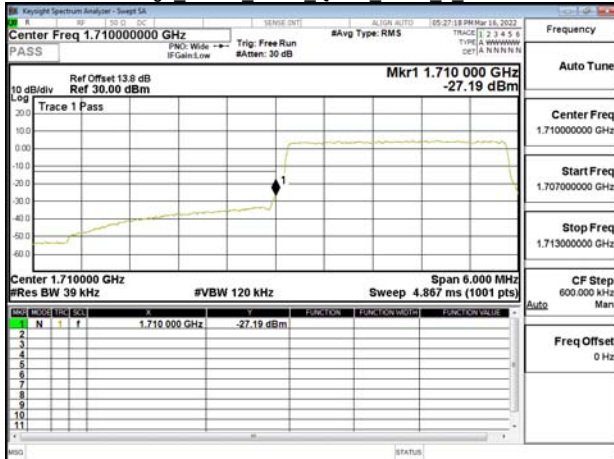


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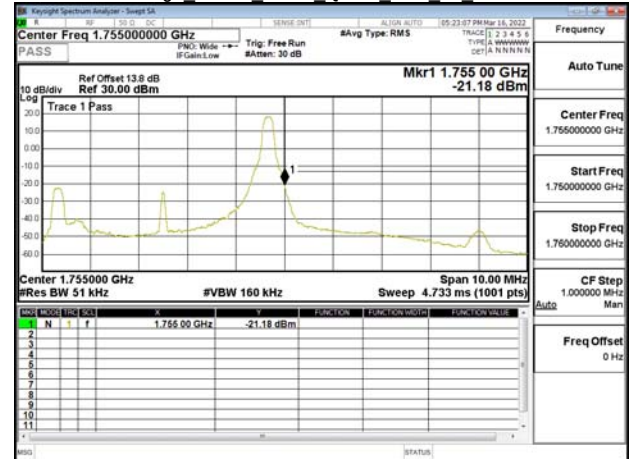
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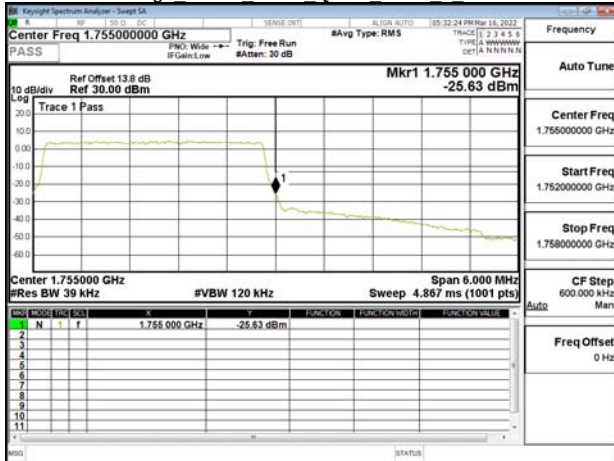
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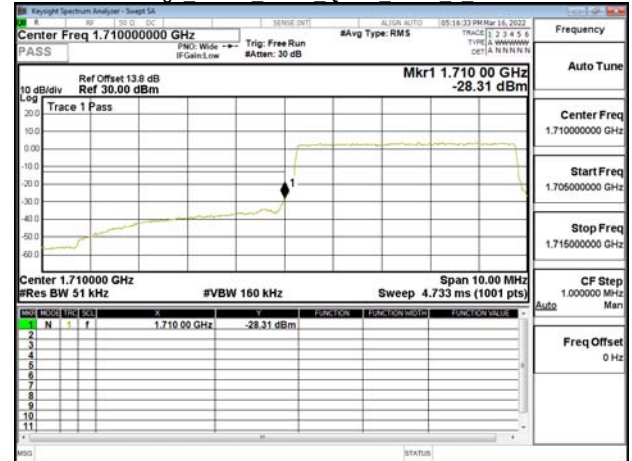
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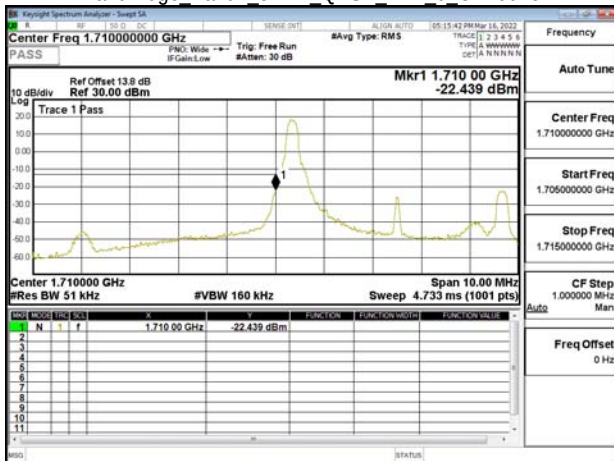
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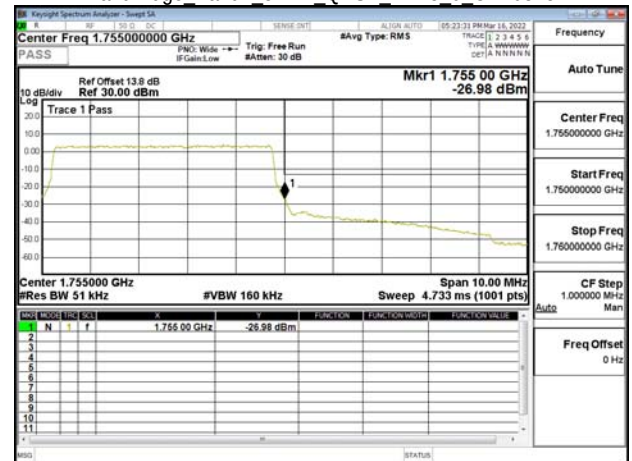
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Band Edge Band4 5MHz QPSK RB1 0 CH19975



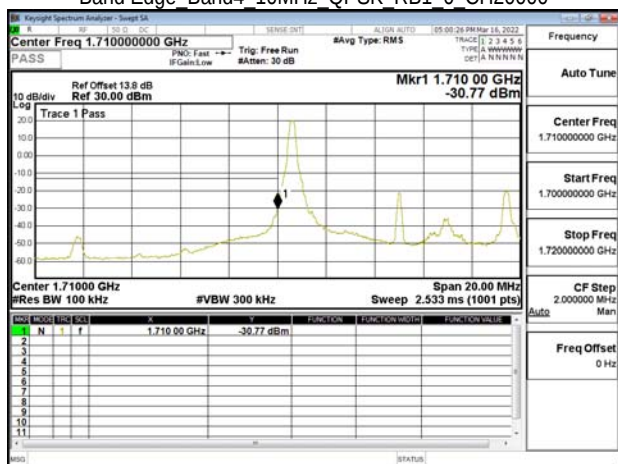
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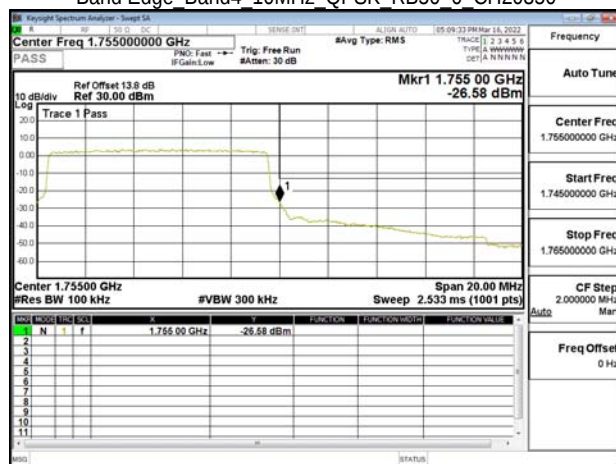
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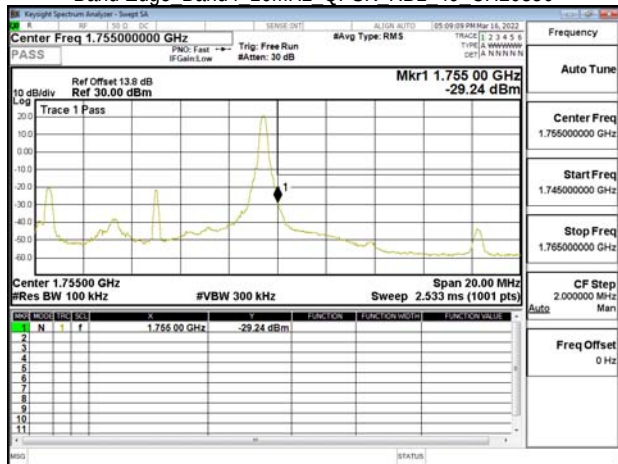
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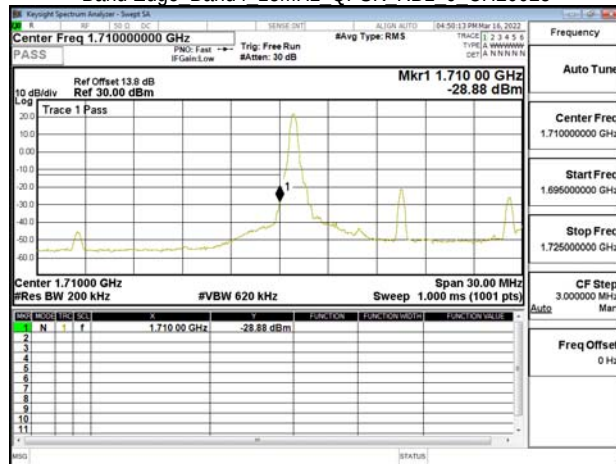
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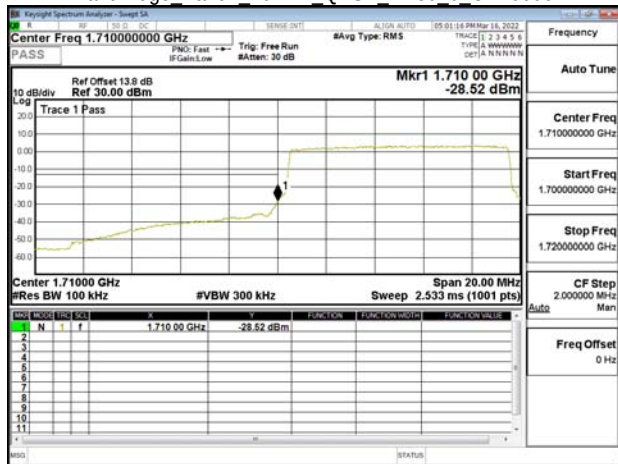
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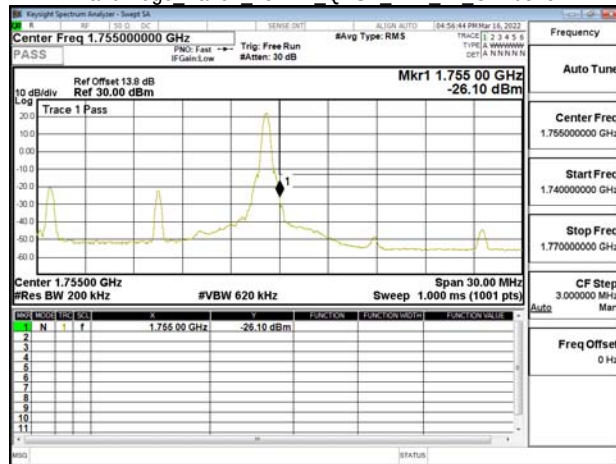
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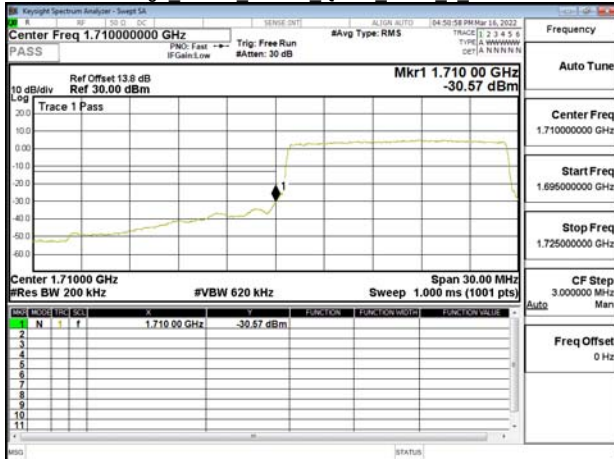


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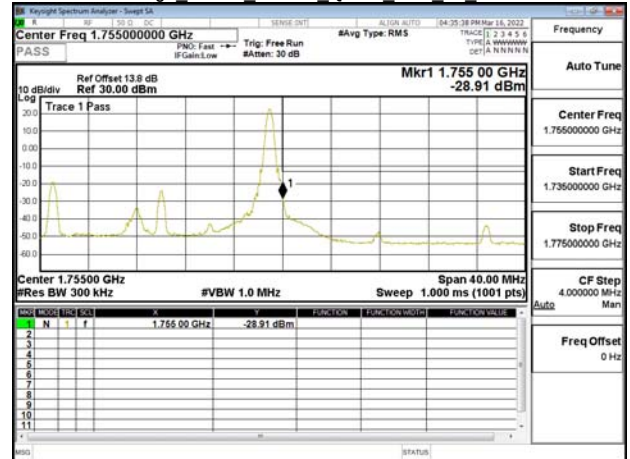
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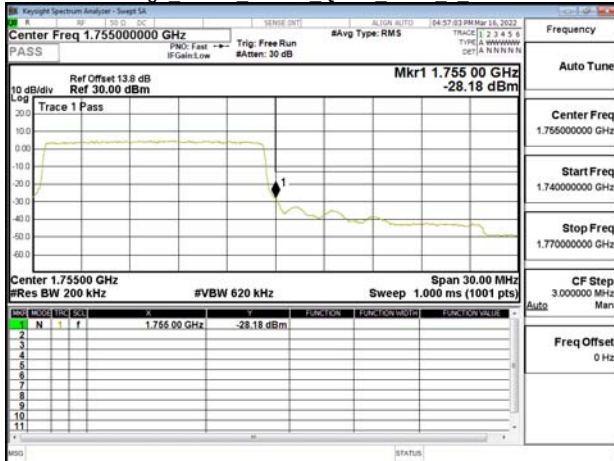
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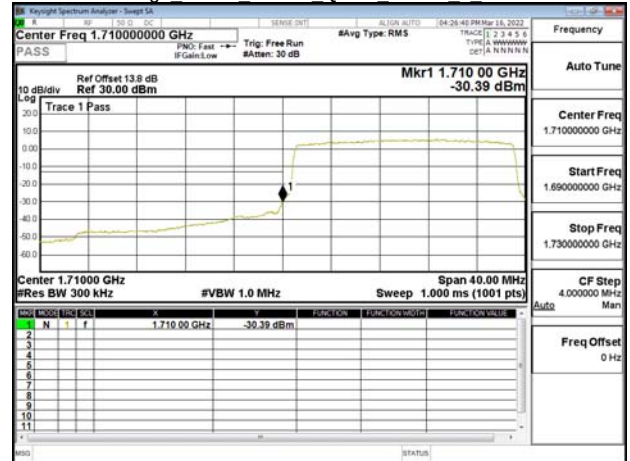
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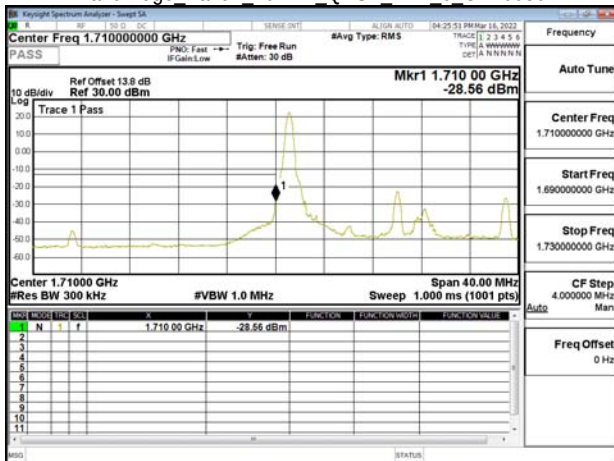
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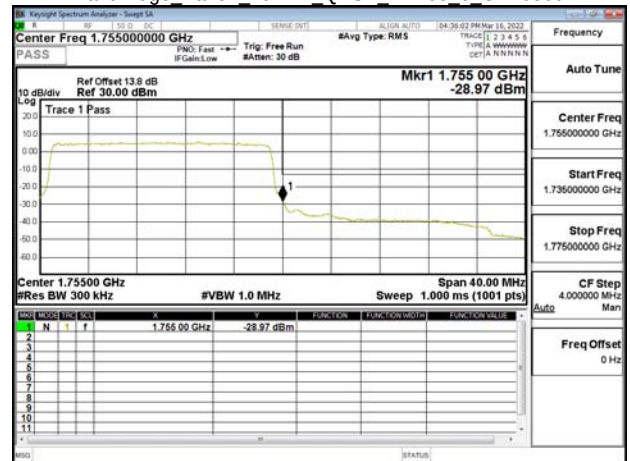
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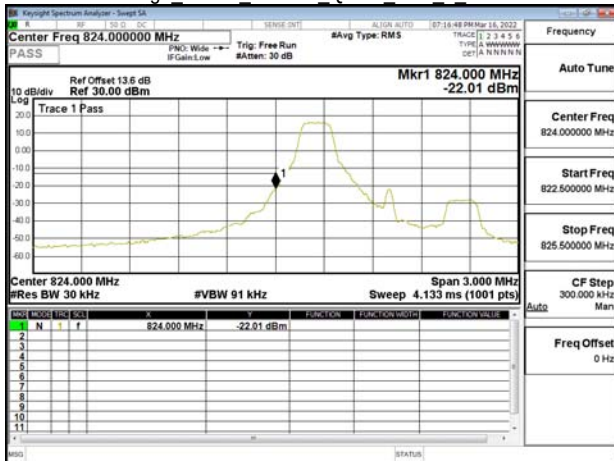


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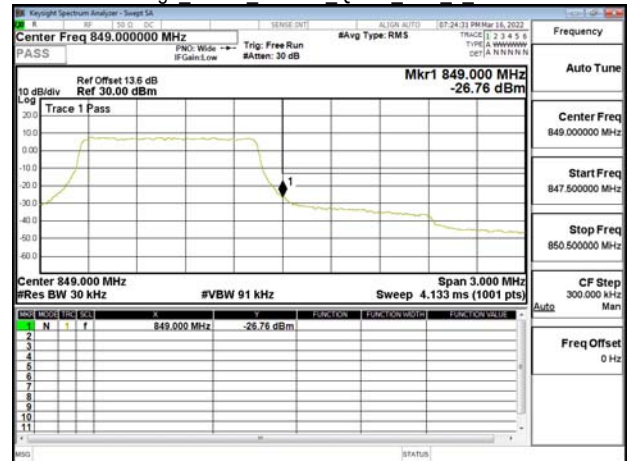
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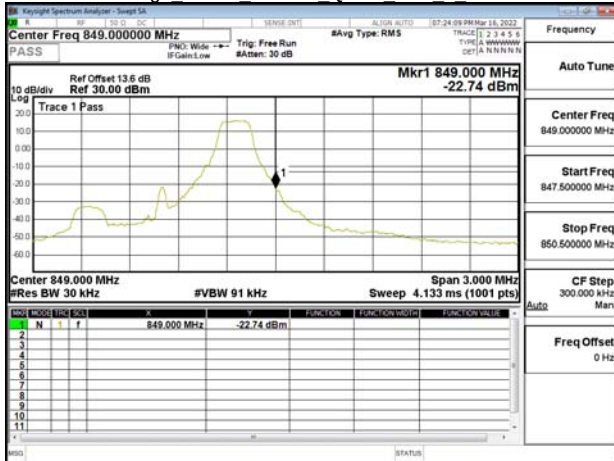
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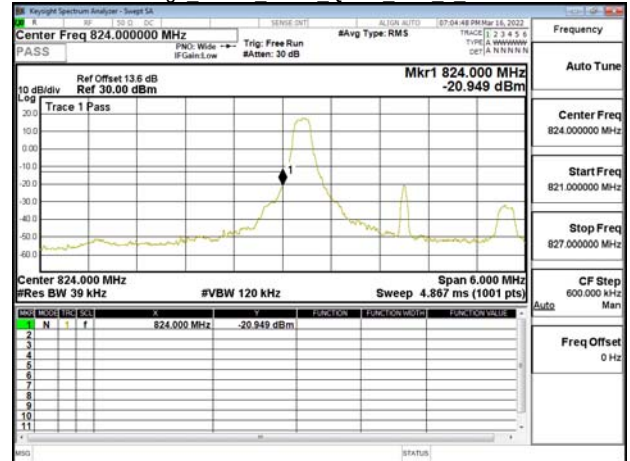
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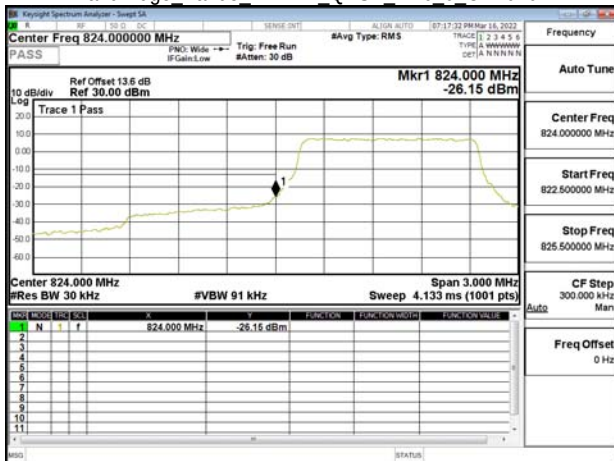
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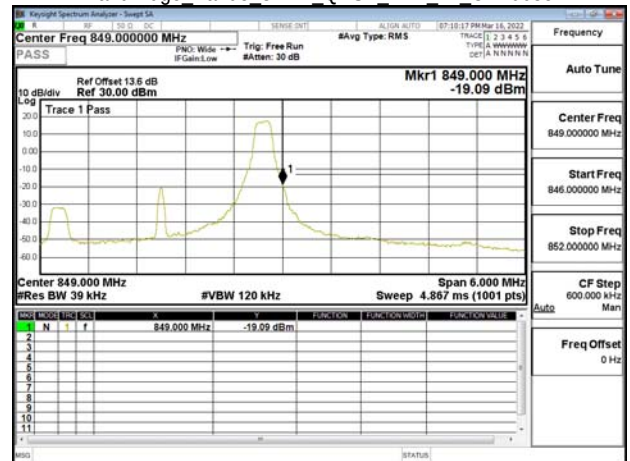
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Band Edge Band5 3MHz QPSK RB1 14 CH20635

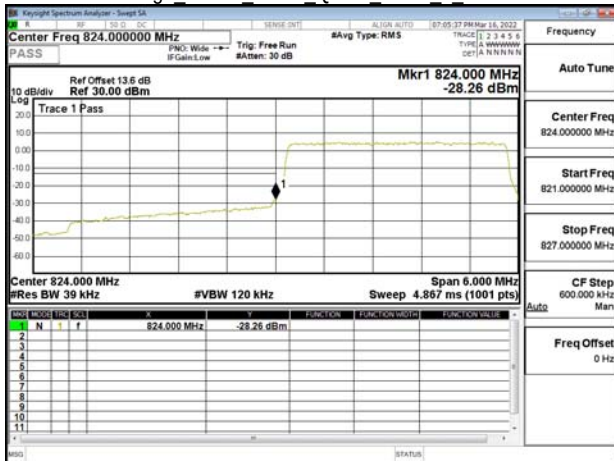


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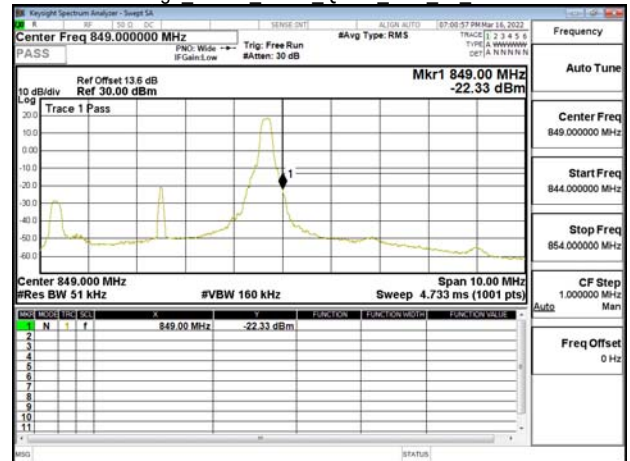
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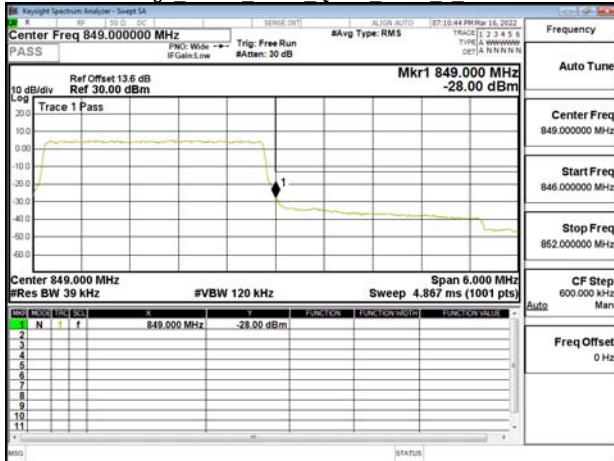
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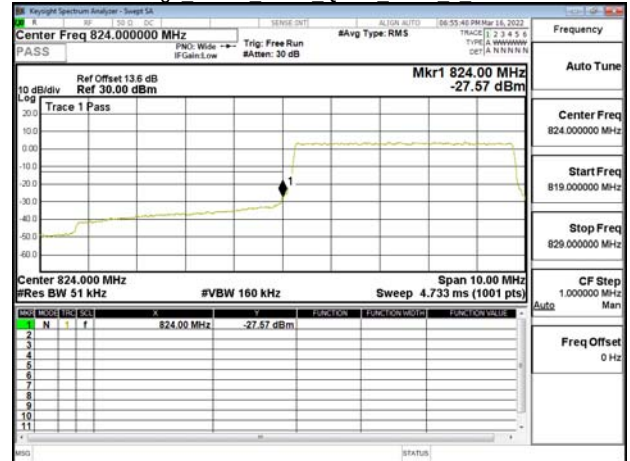
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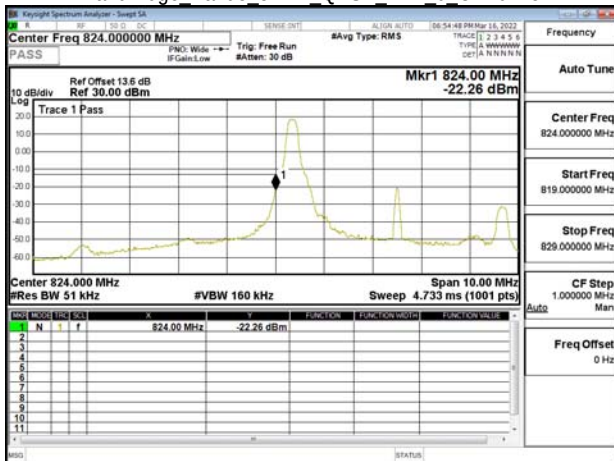
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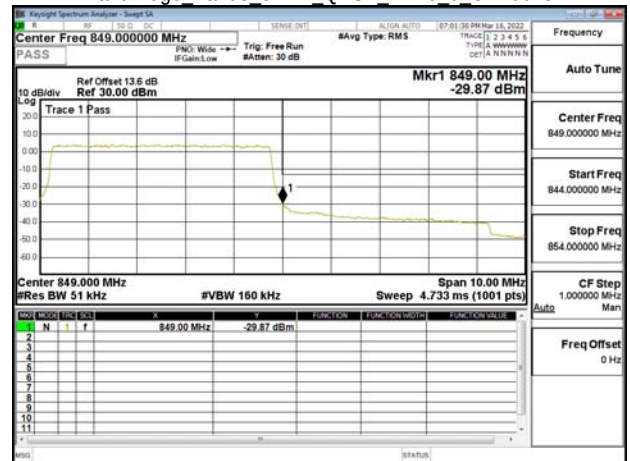
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Band Edge Band5 5MHz QPSK RB1 0 CH20425



Band Edge Band5 5MHz QPSK RB25 0 CH20625

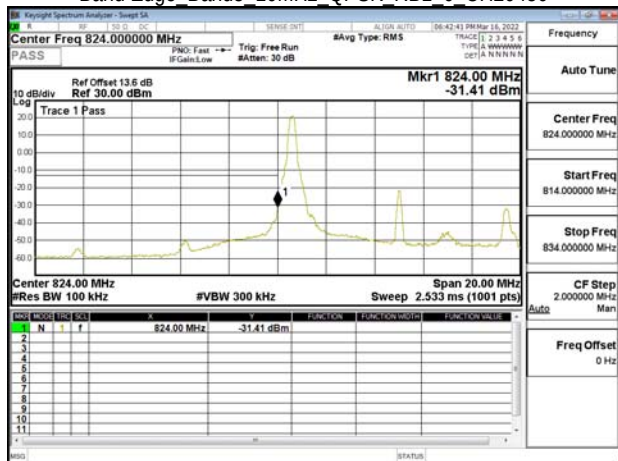


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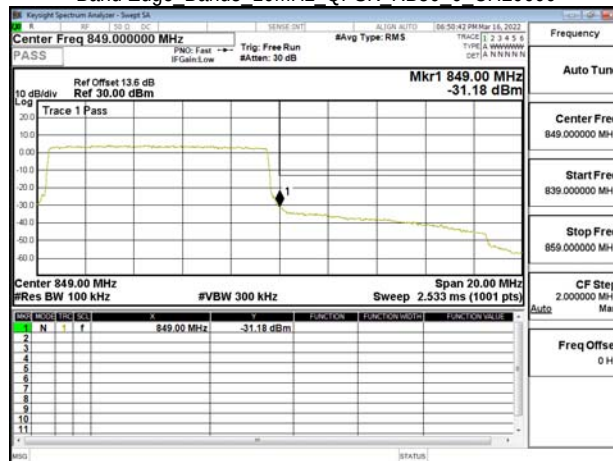
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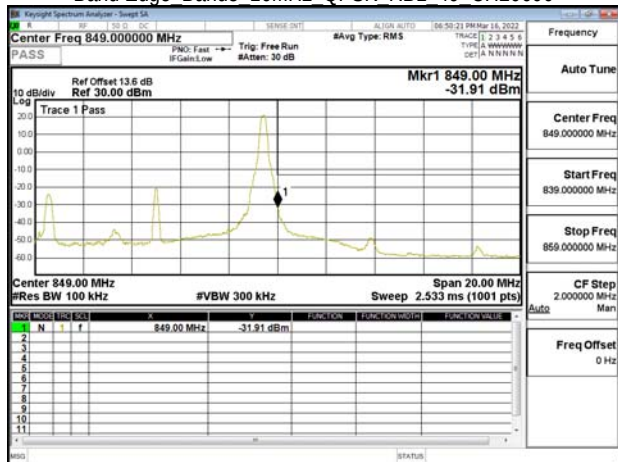
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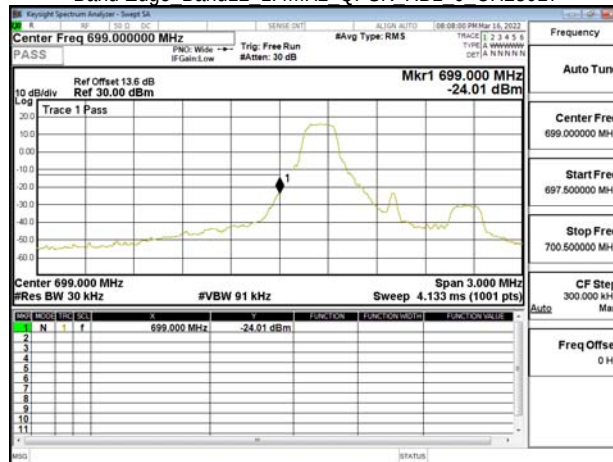
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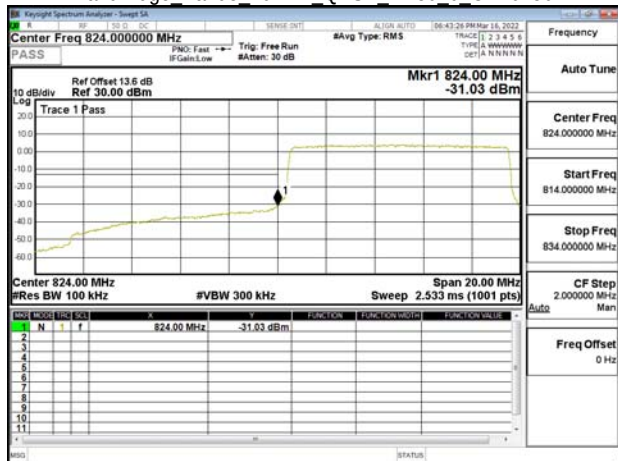
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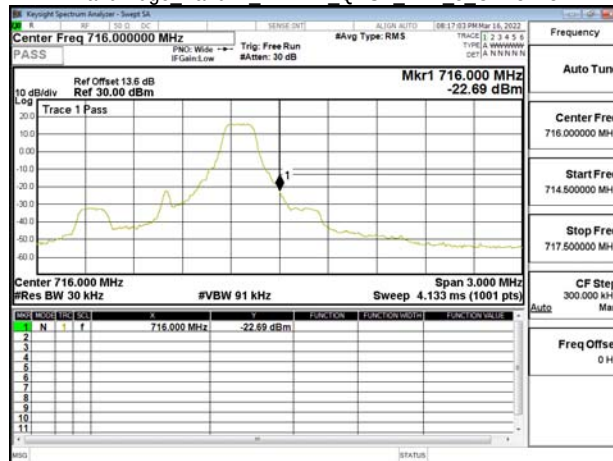
Band Edge Band12 1.4MHz QPSK RB1 0 CH23017



Band Edge Band5 10MHz QPSK RB50 0 CH20450



Band Edge Band12 1.4MHz QPSK RB1 5 CH23173

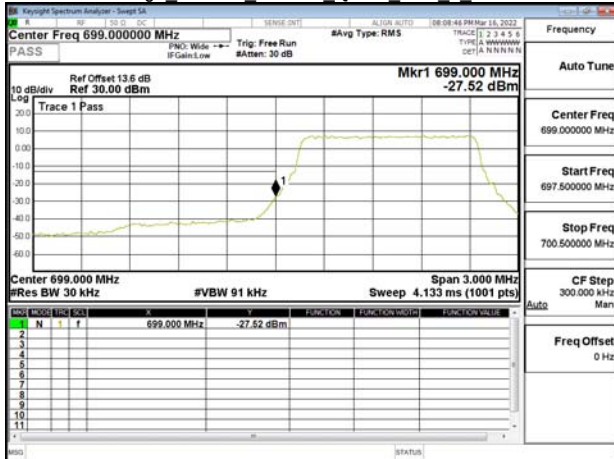


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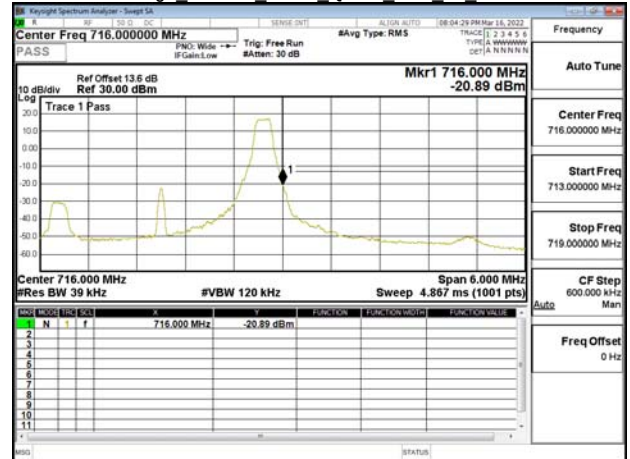
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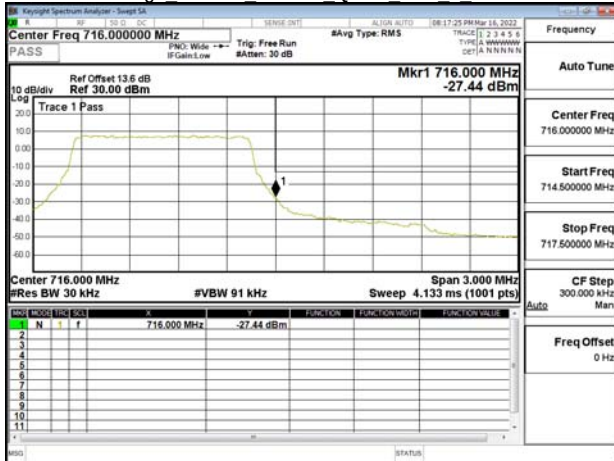
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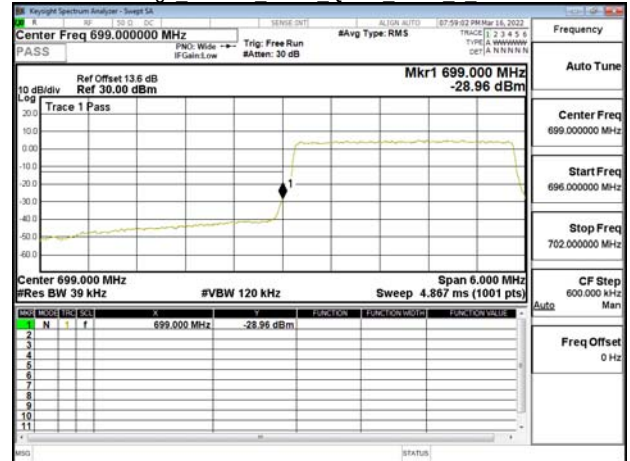
Band Edge Band12 3MHz QPSK RB1 14 CH23165



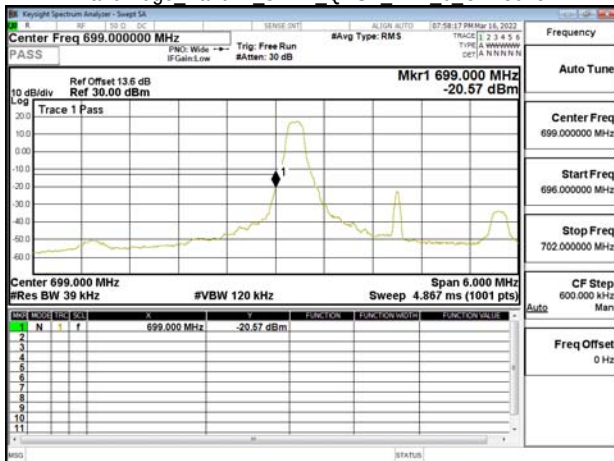
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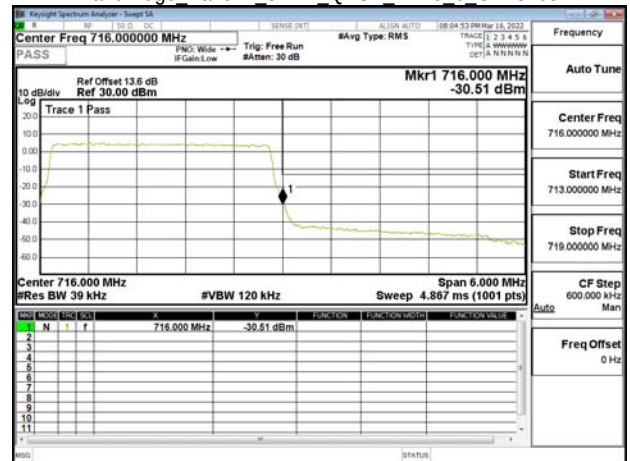
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Band Edge Band12 3MHz QPSK RB1 0 CH23025



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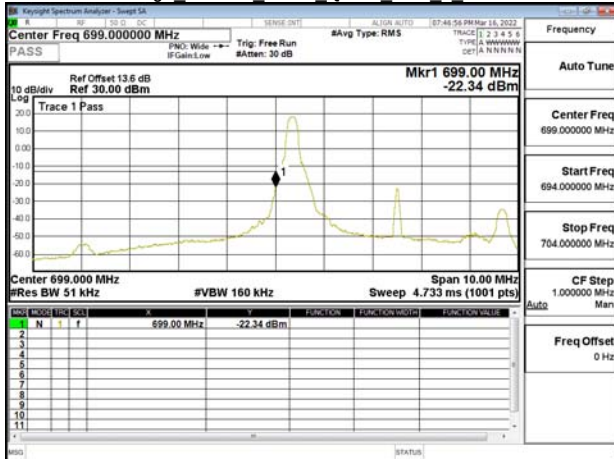


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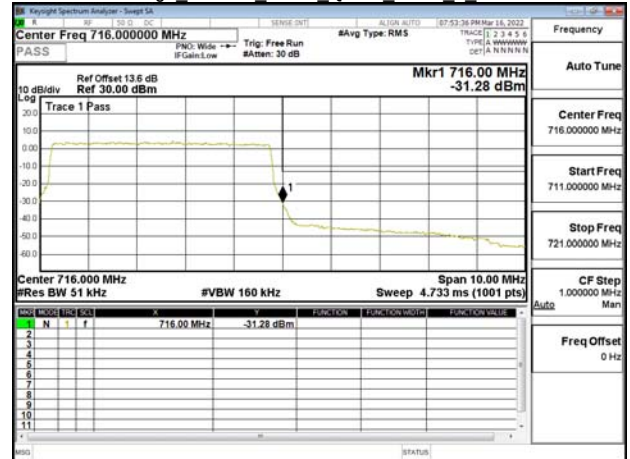
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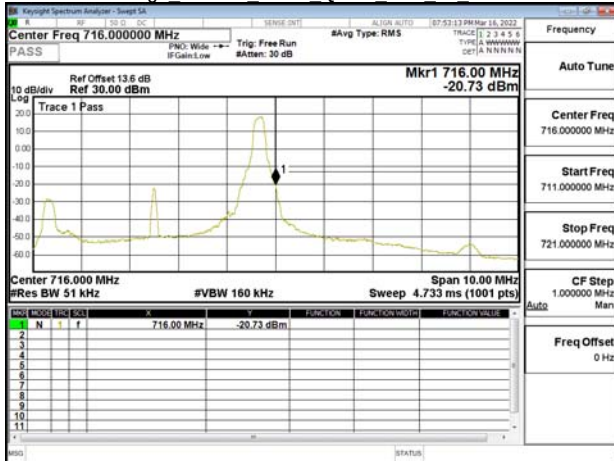
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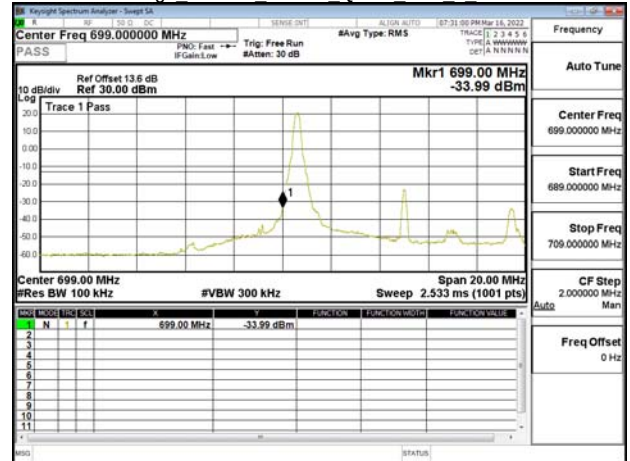
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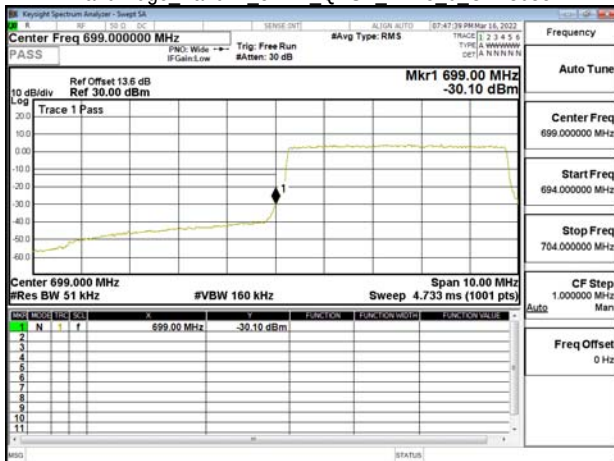
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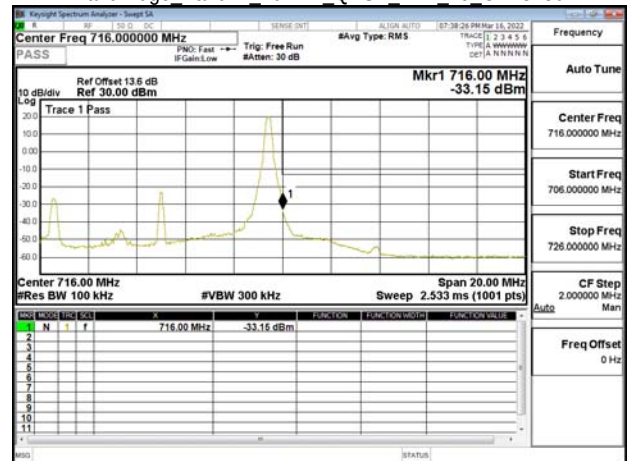
Band Edge Band12 10MHz QPSK RB1 0 CH23060



Band Edge Band12 5MHz QPSK RB25 0 CH23035



Band Edge Band12 10MHz QPSK RB1 49 CH23130

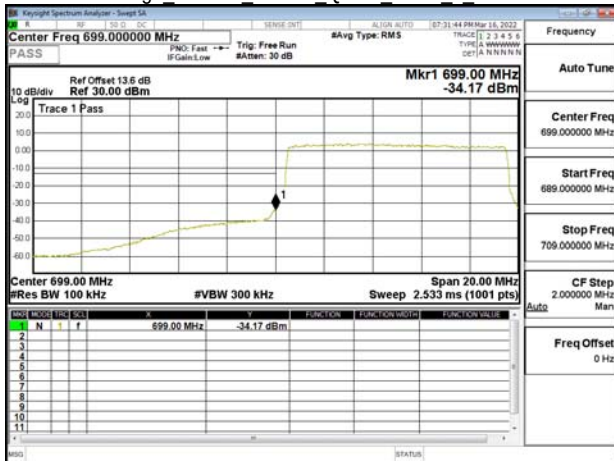


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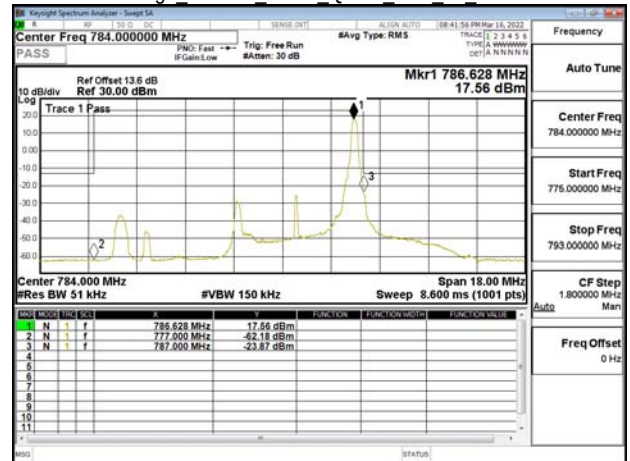
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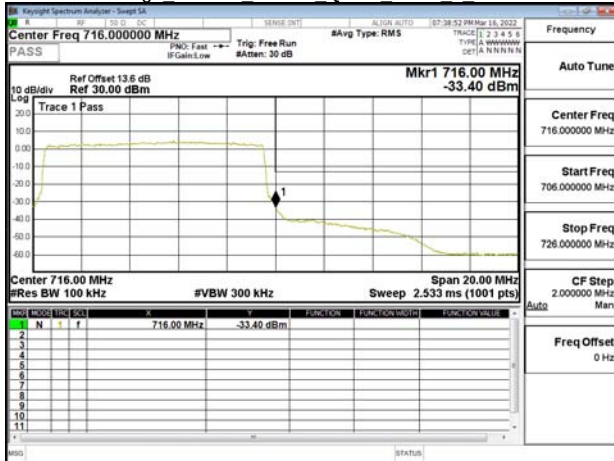
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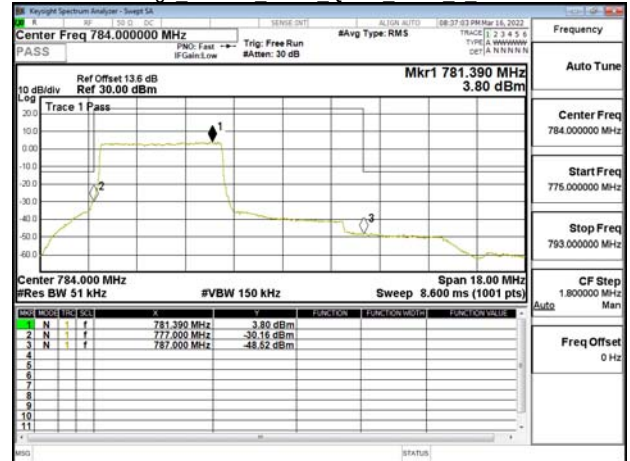
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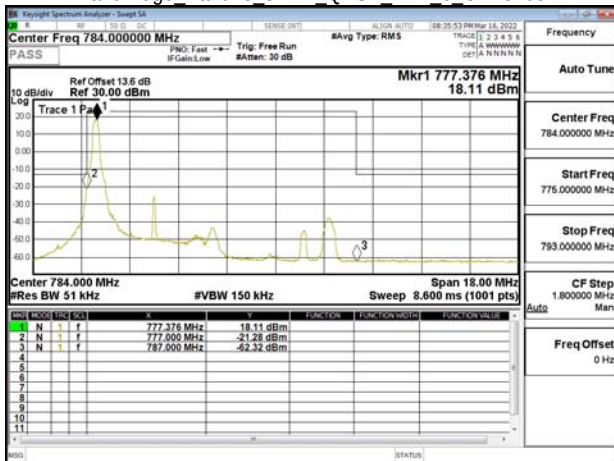
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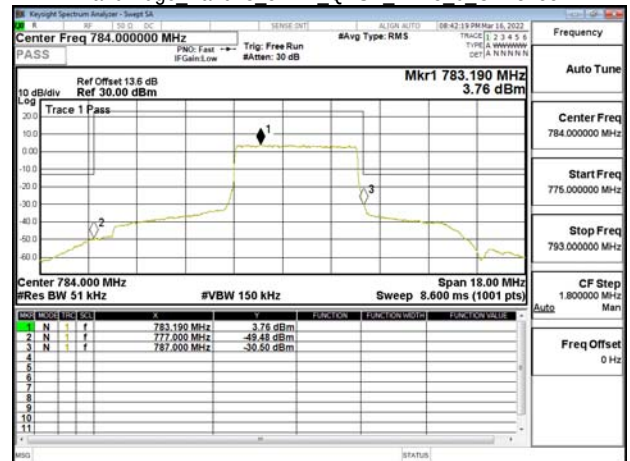
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Band Edge Band13 5MHz QPSK RB1 0 CH23205



Band Edge Band13 5MHz QPSK RB25 0 CH23255

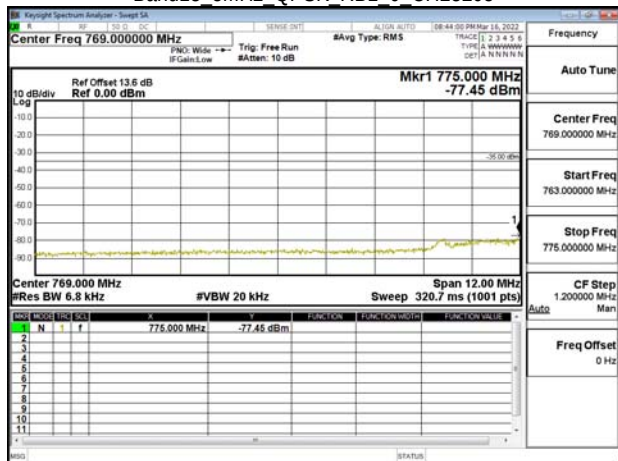


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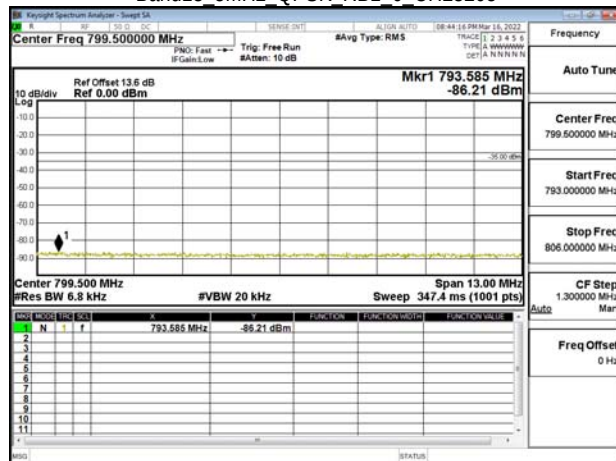
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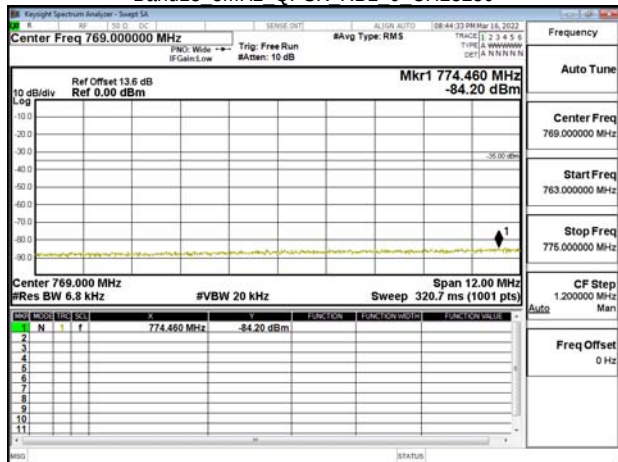
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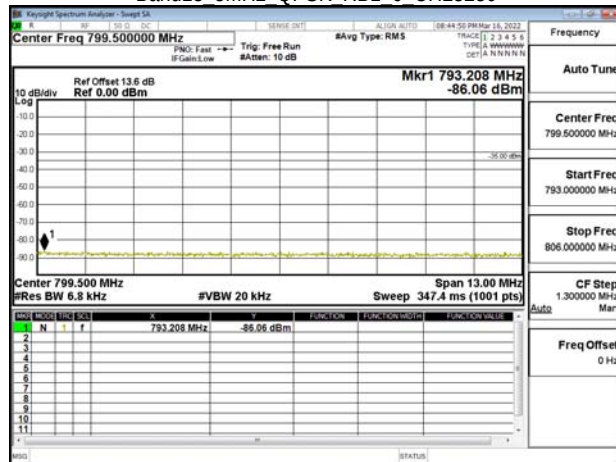
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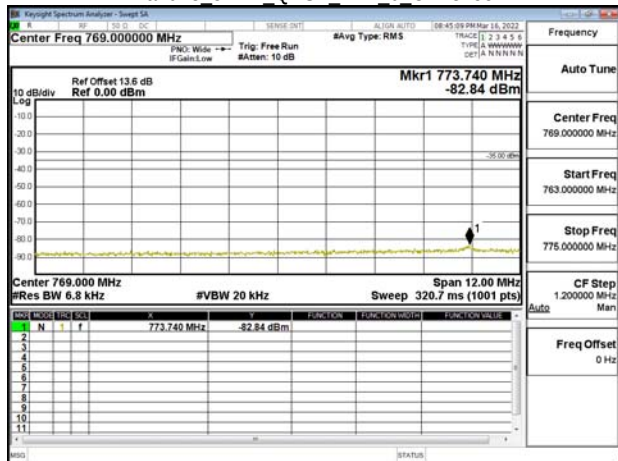
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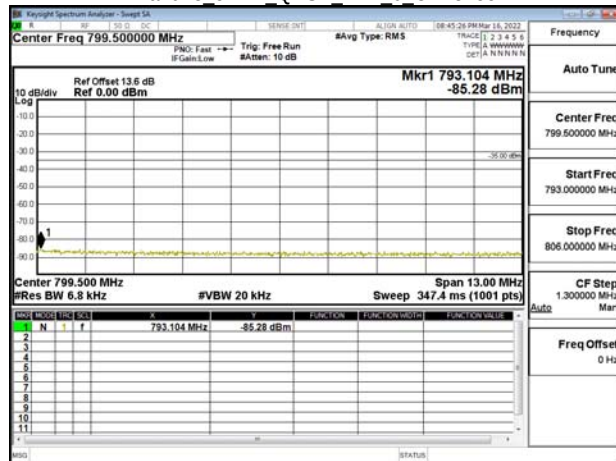
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Band13 5MHz QPSK RB1 0 CH23255



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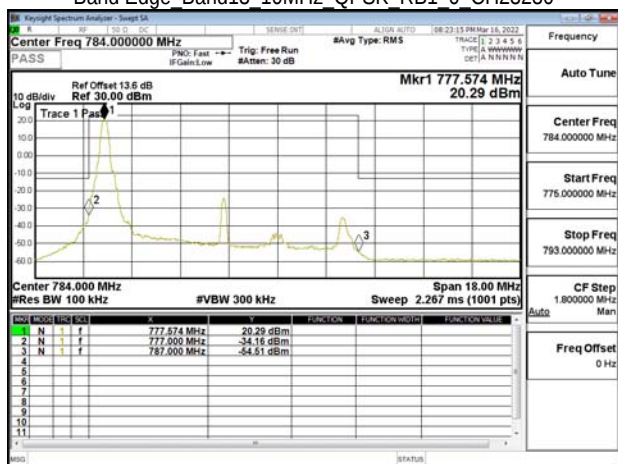


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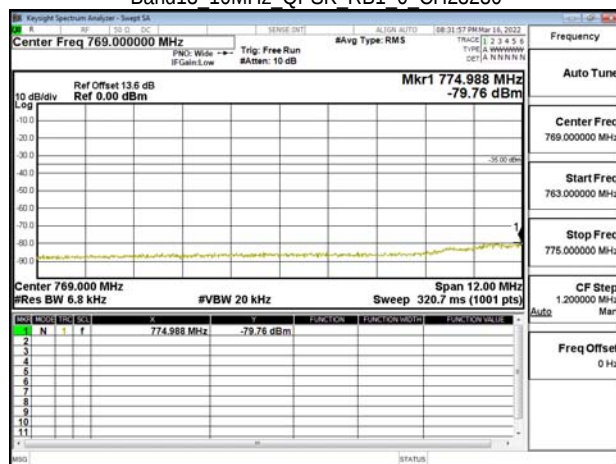
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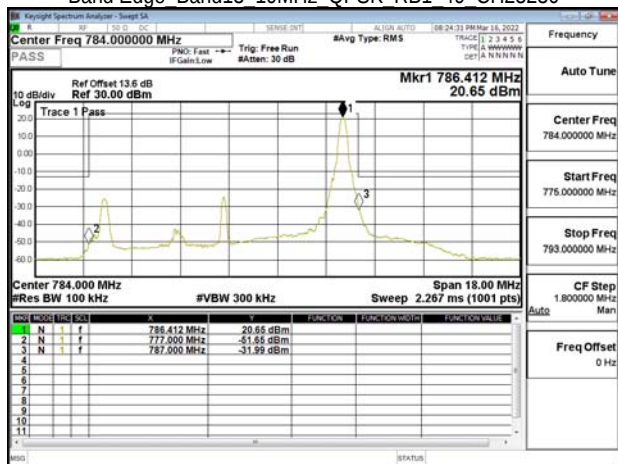
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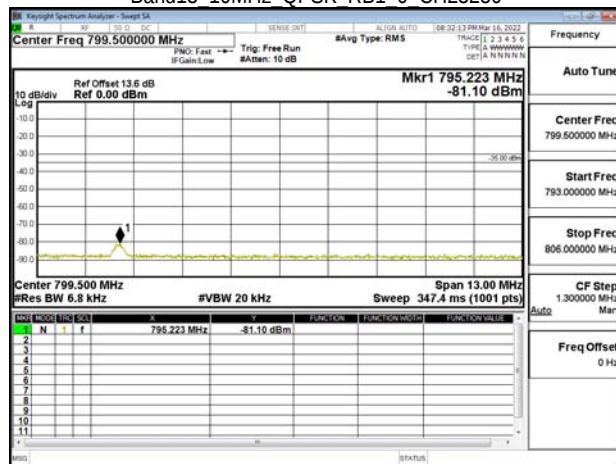
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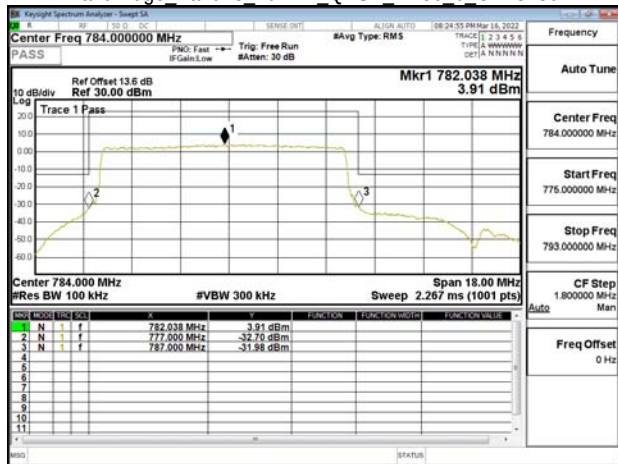
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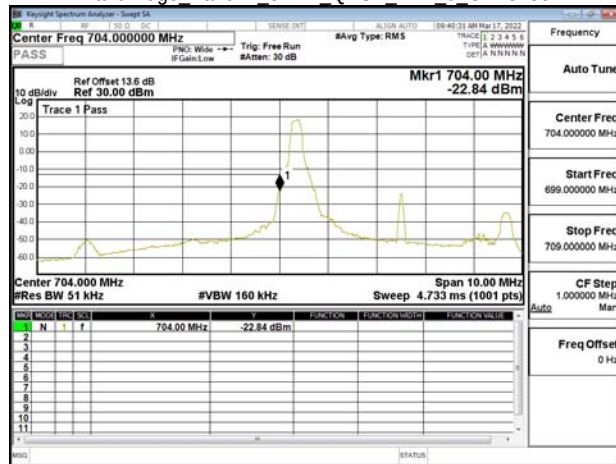
Band13 10MHz QPSK RB1 0 CH23230



Band Edge Band13 10MHz QPSK RB50 0 CH23230



Band Edge Band17 5MHz QPSK RB1 0 CH23755



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