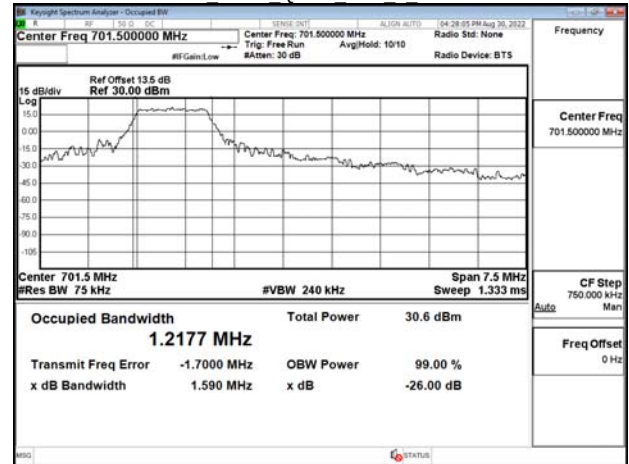


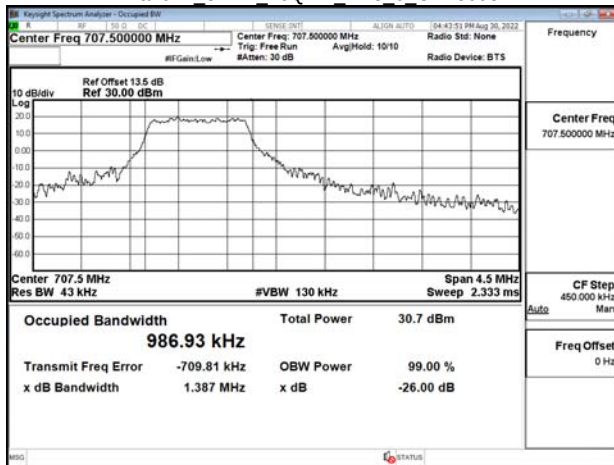
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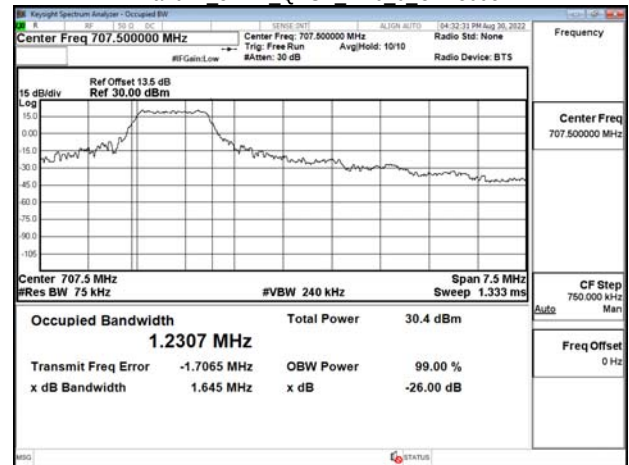
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Band12 3MHz 16QAM RB5 0 CH23095



Band12 5MHz QPSK RB6 0 CH23095



Band12 3MHz 16QAM RB5 0 CH23165



Band12 5MHz QPSK RB6 0 CH23155



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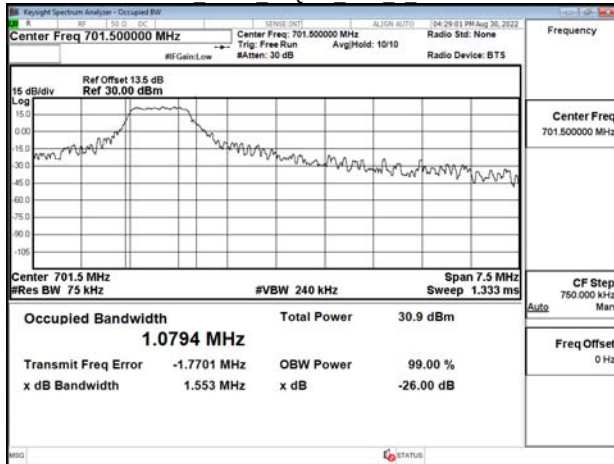
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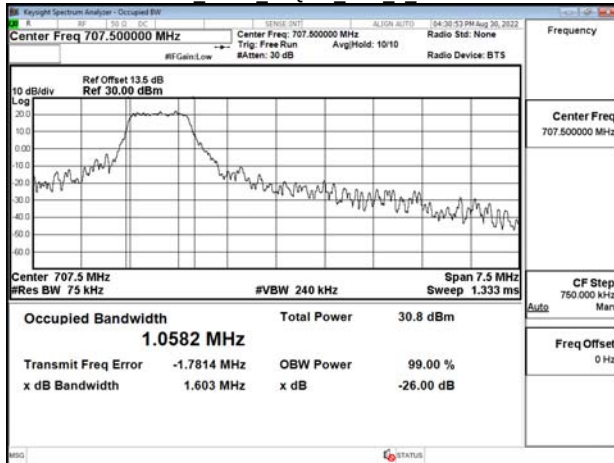
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Band12 10MHz QPSK RB6 0 CH23060



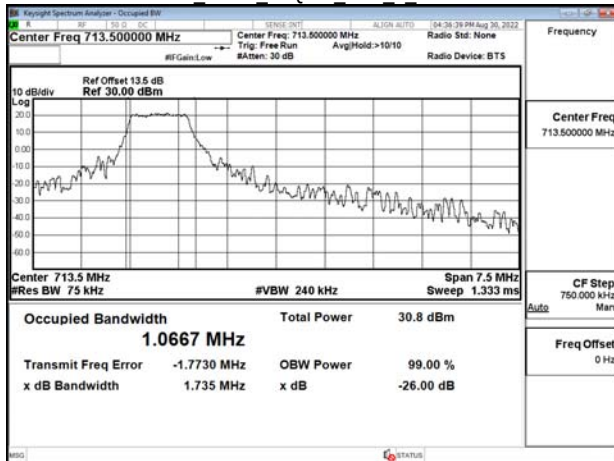
Band12 5MHz 16QAM RB5 0 CH23095



Band12 10MHz QPSK RB6 0 CH23095



Band12 5MHz 16QAM RB5 0 CH23155



Band12 10MHz QPSK RB6 0 CH23130



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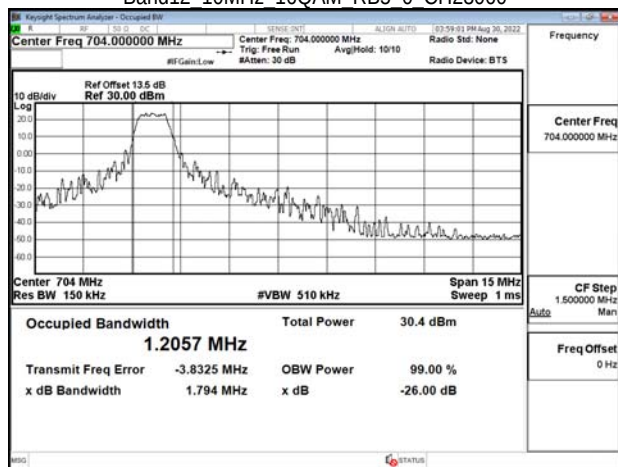
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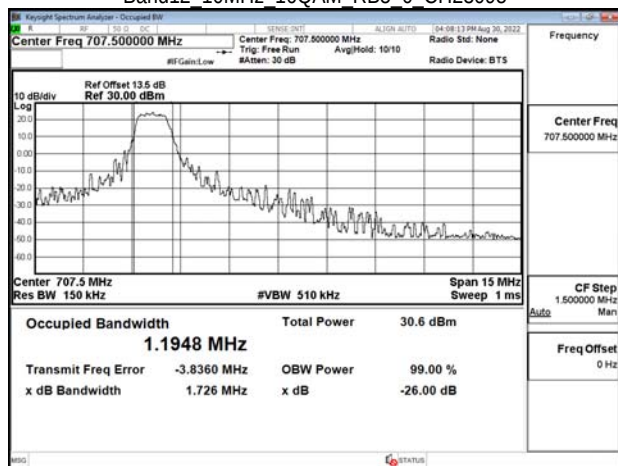
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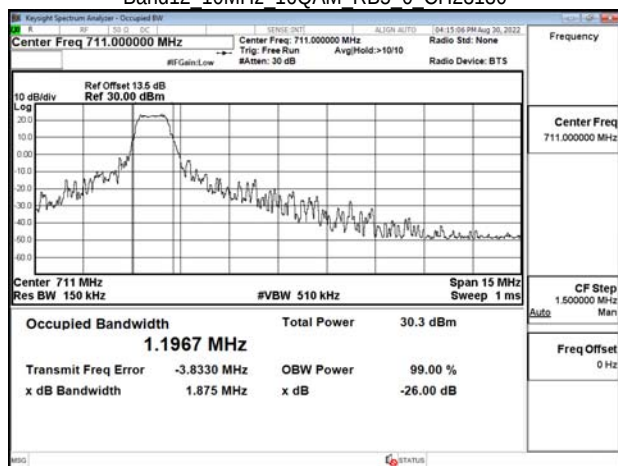
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Band12 10MHz 16QAM RB5 0 CH23095



Band12 10MHz 16QAM RB5 0 CH23130



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9 OUT OF BAND EMISSION AT ANTENNA TERMINALS

9.1 Standard Applicable

FCC §24.238(a), §27.53(h)

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;

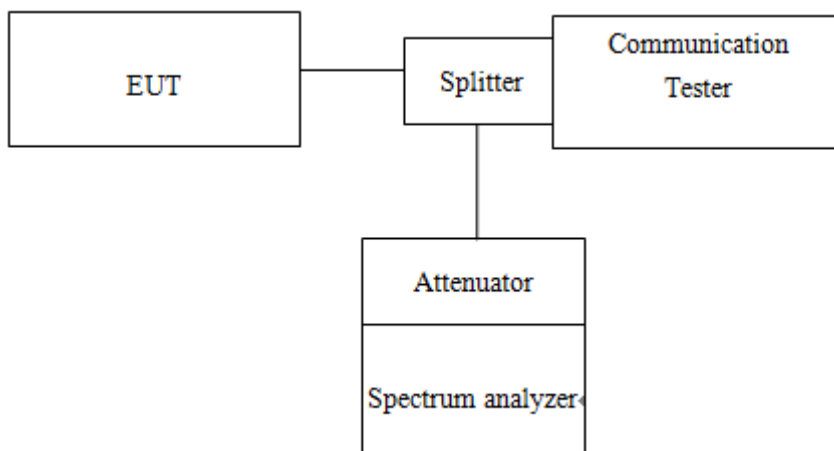
FCC §27.53(h)(1)

(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.

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9.2 Test SET-UP



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 Measurement Result:

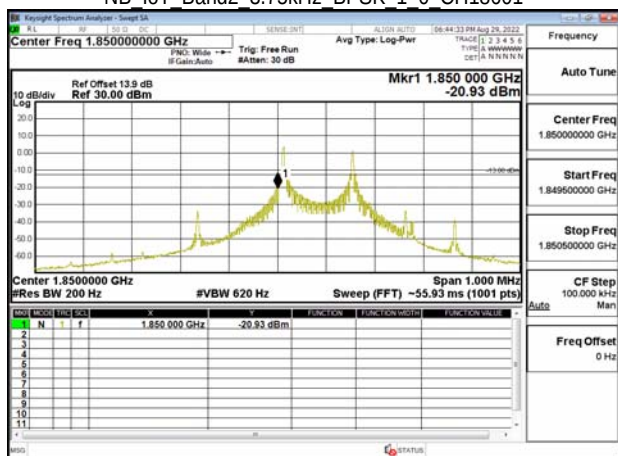
Refer to next pages.

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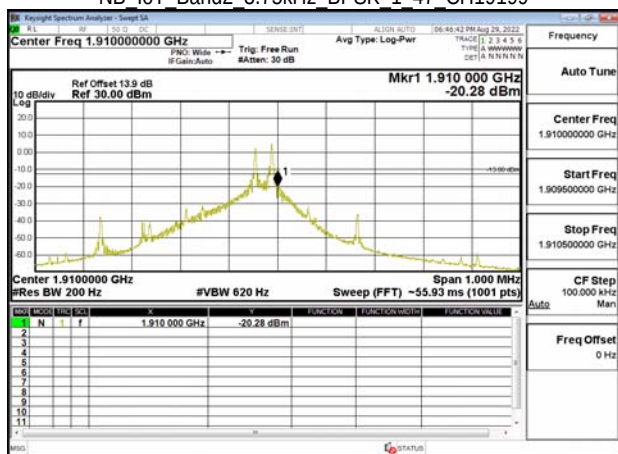
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9.4.1 Bandedge

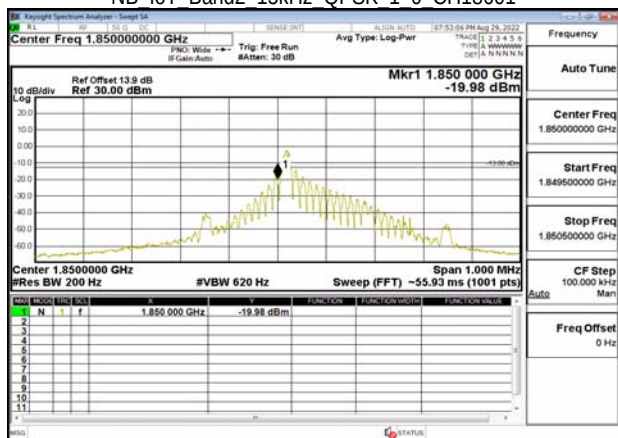
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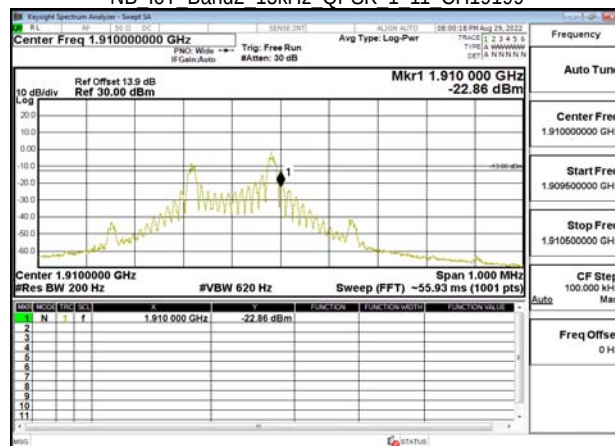
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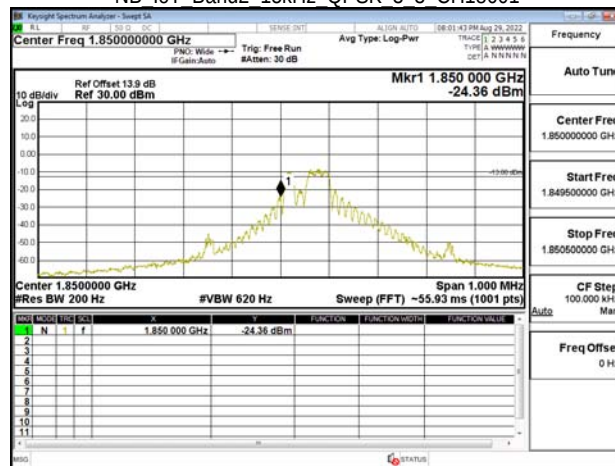
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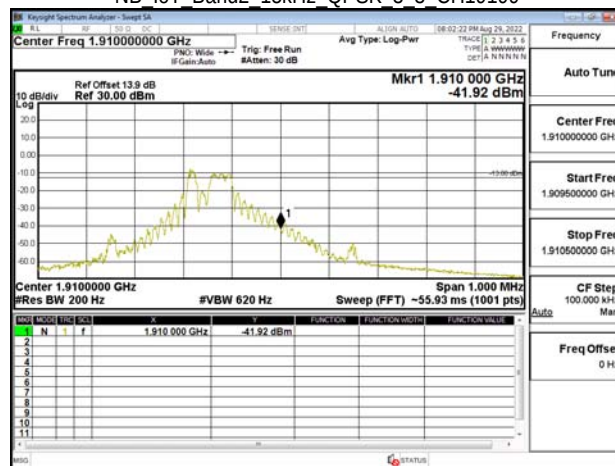
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NB IoT Band2 15kHz QPSK 3 3 CH18601



NB IoT Band2 15kHz QPSK 3 3 CH19199

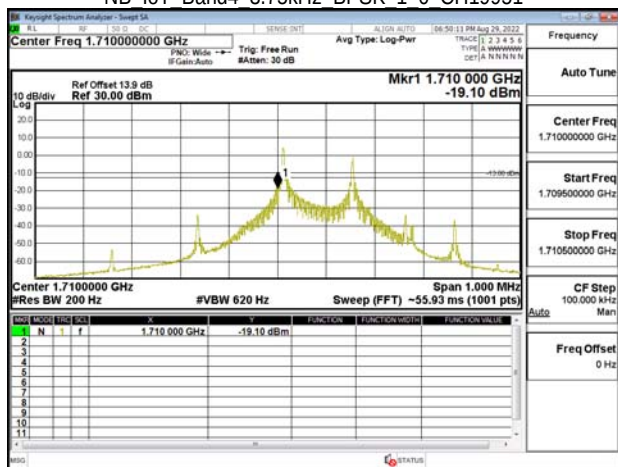


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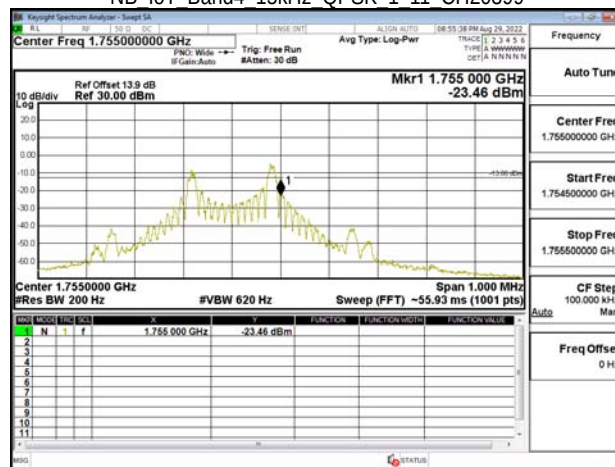
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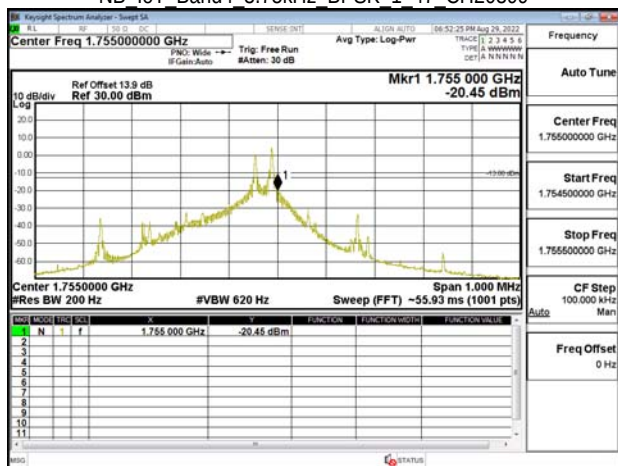
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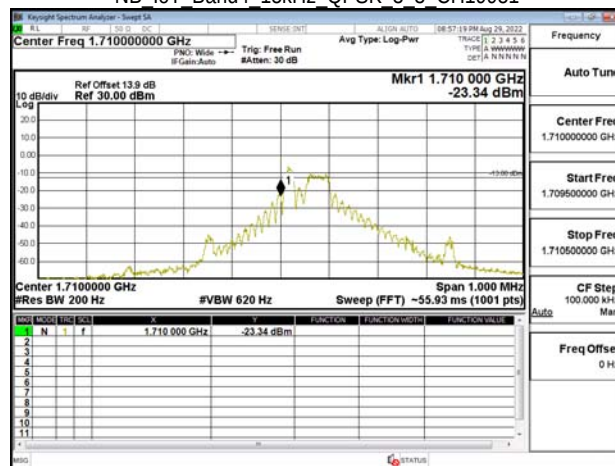
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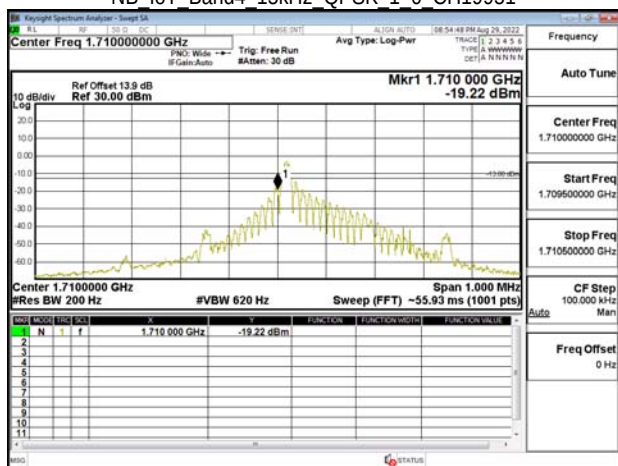
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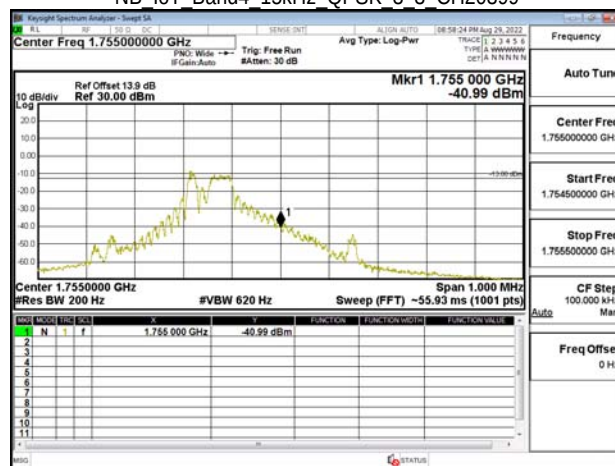
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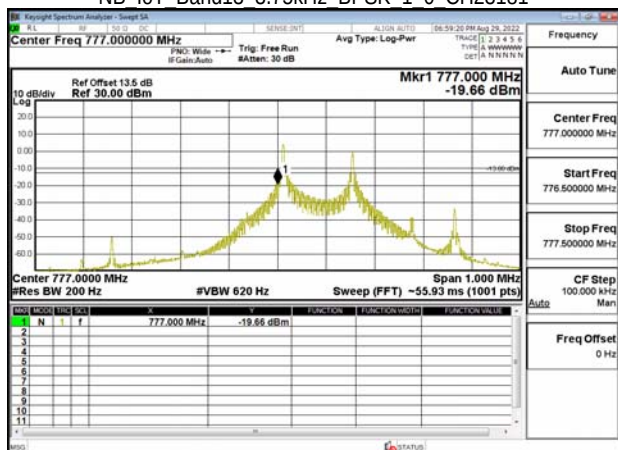


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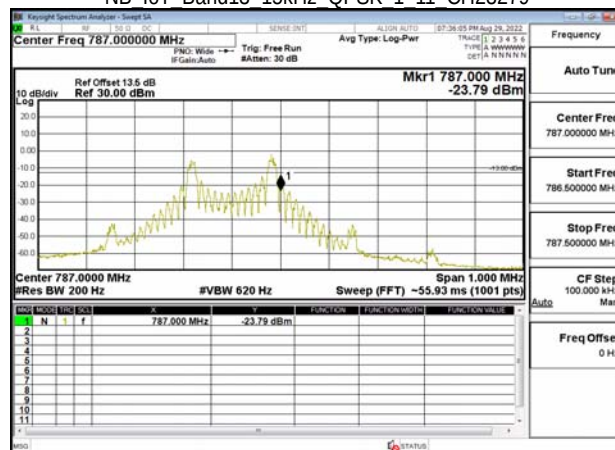
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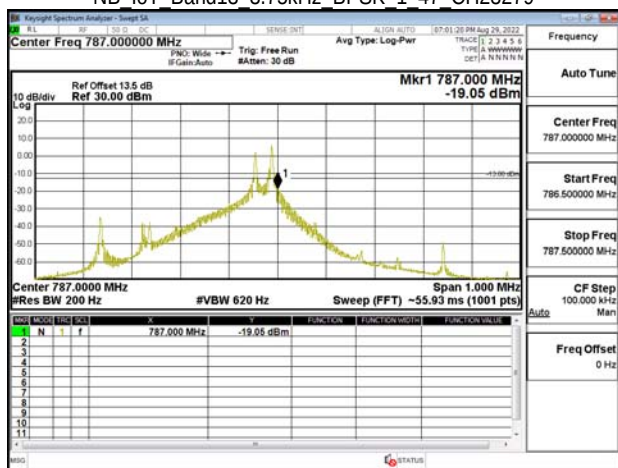
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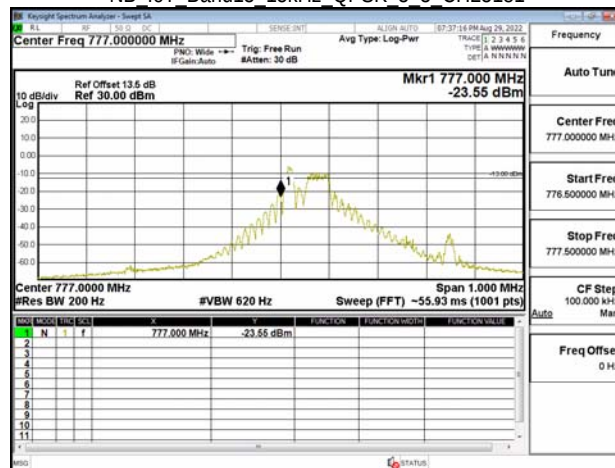
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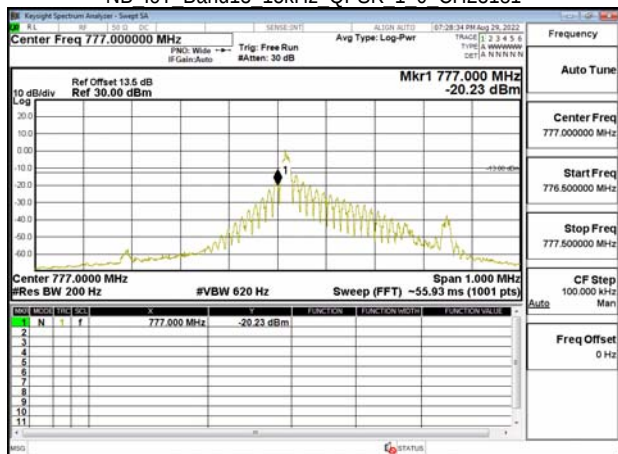
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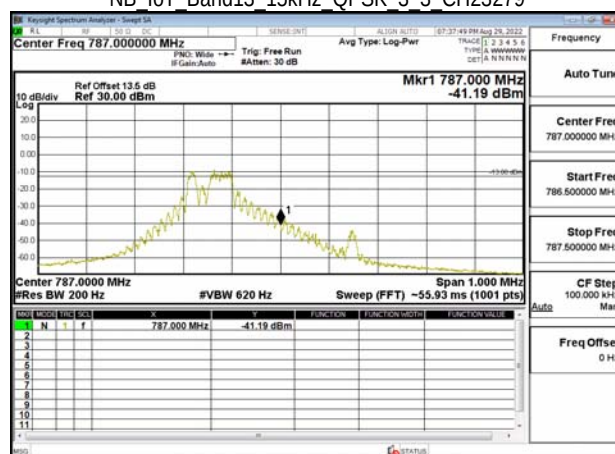
NB IoT Band13 15kHz QPSK 3 3 CH23181



NB IoT Band13 15kHz QPSK 1 0 CH23181



NB IoT Band13 15kHz QPSK 3 3 CH23279



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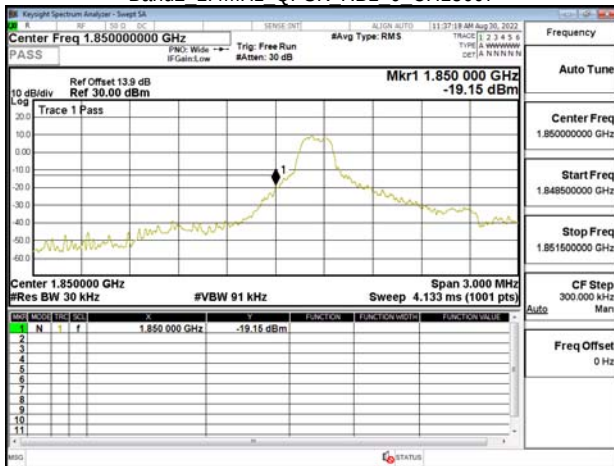
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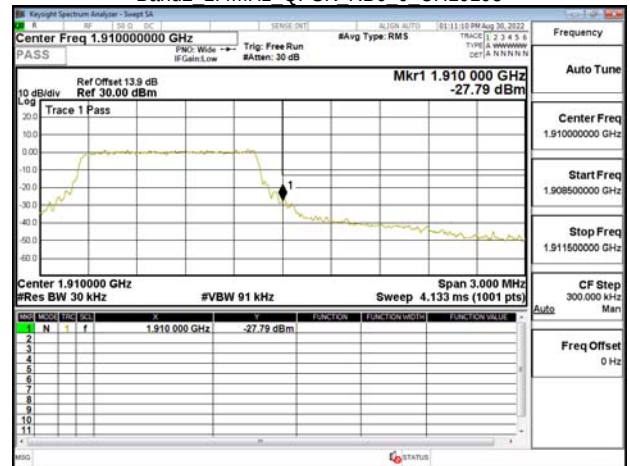
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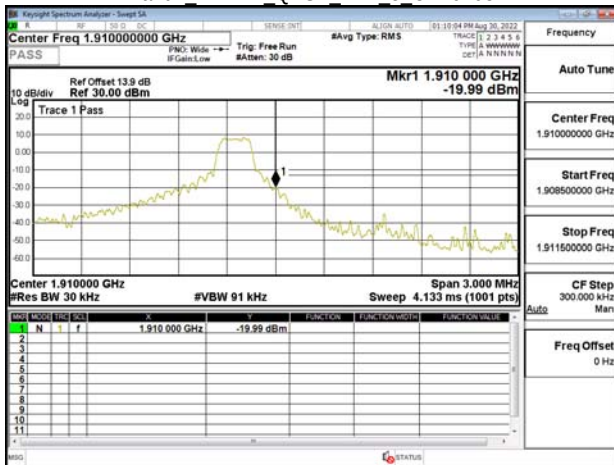
Band2 1.4MHz QPSK RB1 0 CH18607



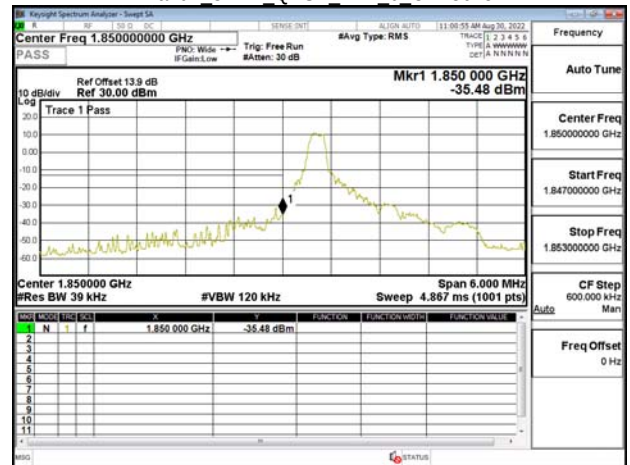
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Band2 1.4MHz QPSK RB1 5 CH19193



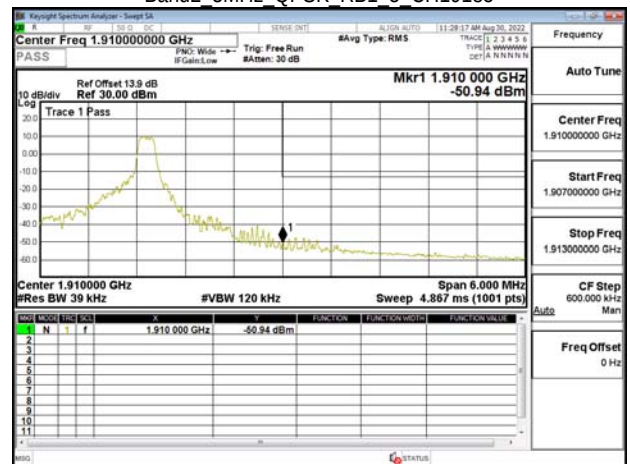
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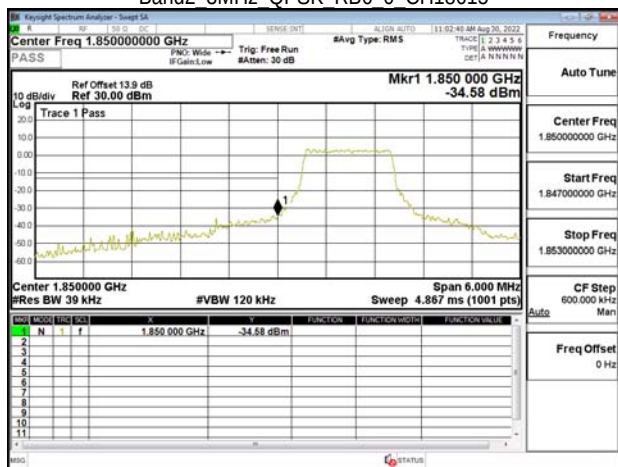


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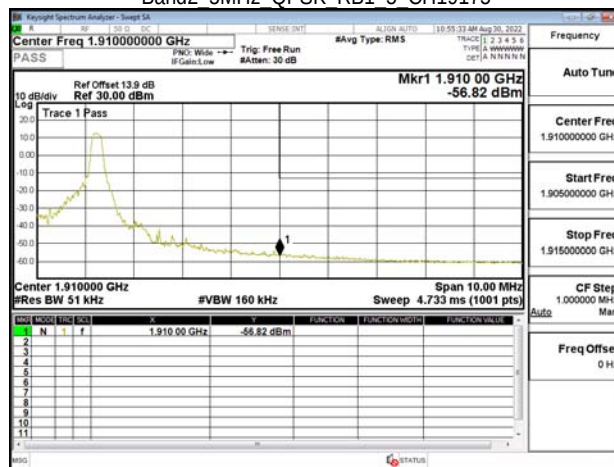
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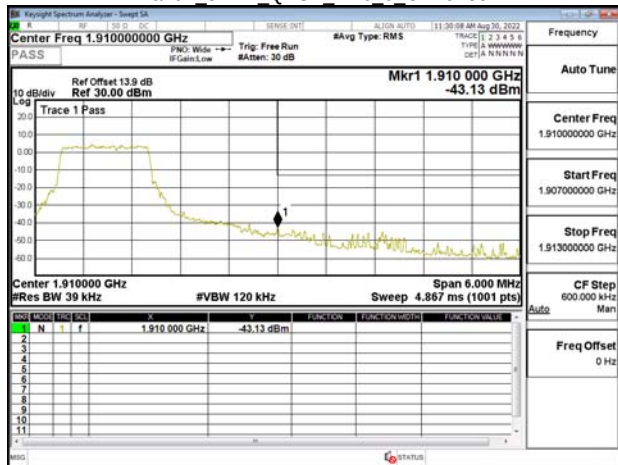
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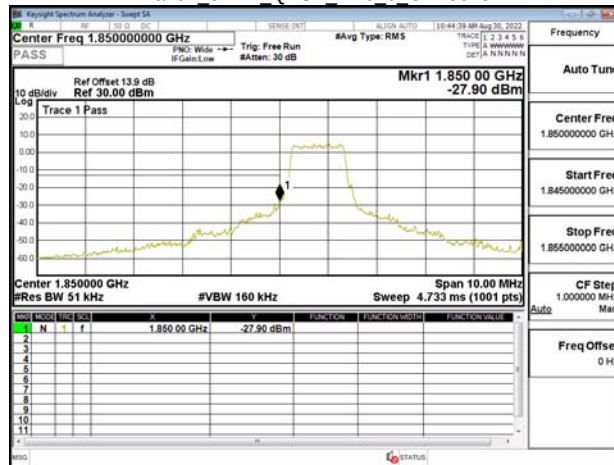
Band2 5MHz QPSK RB1 5 CH19175



Band2 3MHz QPSK RB6 0 CH19185



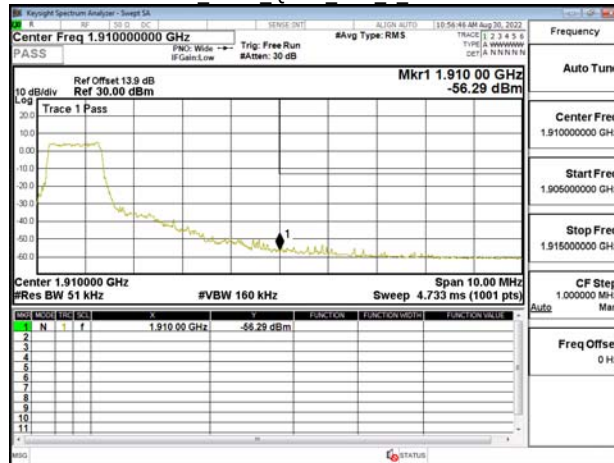
Band2 5MHz QPSK RB6 0 CH18625



Band2 5MHz QPSK RB1 0 CH18625



Band2 5MHz QPSK RB6 0 CH19175



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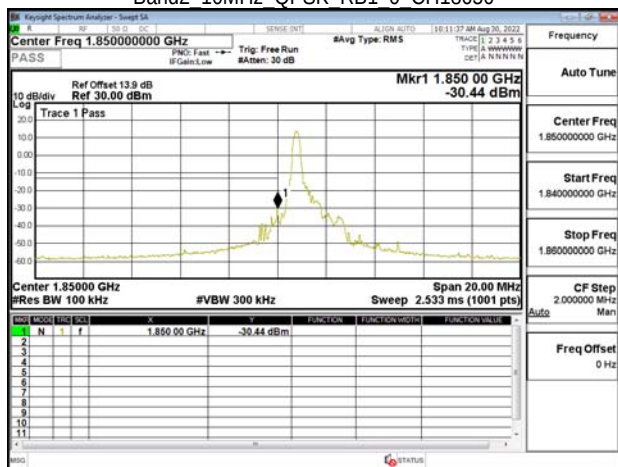
t (886-2) 2299-3279

f (886-2) 2298-0488

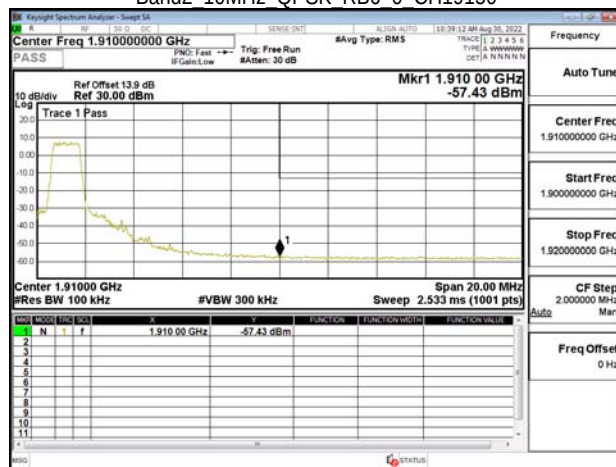
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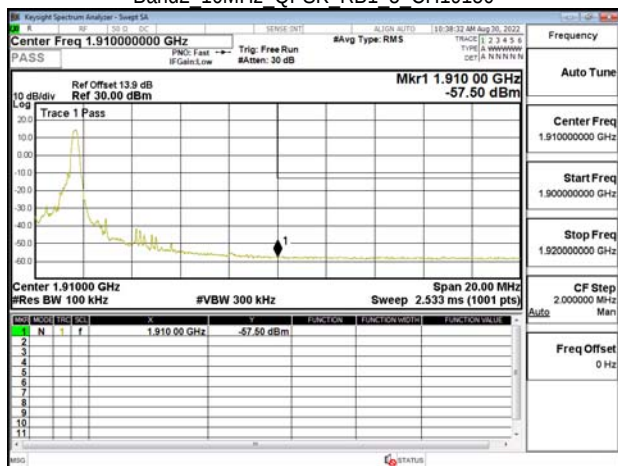
Band2 10MHz QPSK RB1 0 CH18650



Band2 10MHz QPSK RB6 0 CH19150



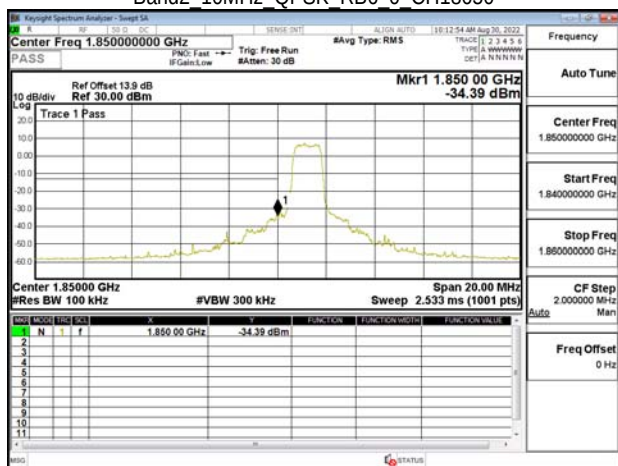
Band2 10MHz QPSK RB1 5 CH19150



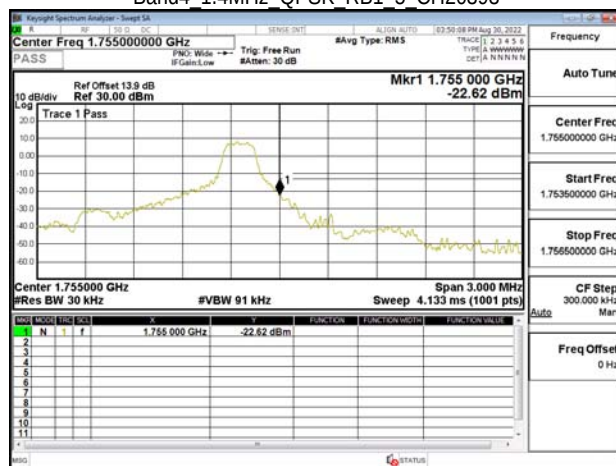
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Band2 10MHz QPSK RB6 0 CH18650



Band4 1.4MHz QPSK RB1 5 CH20393

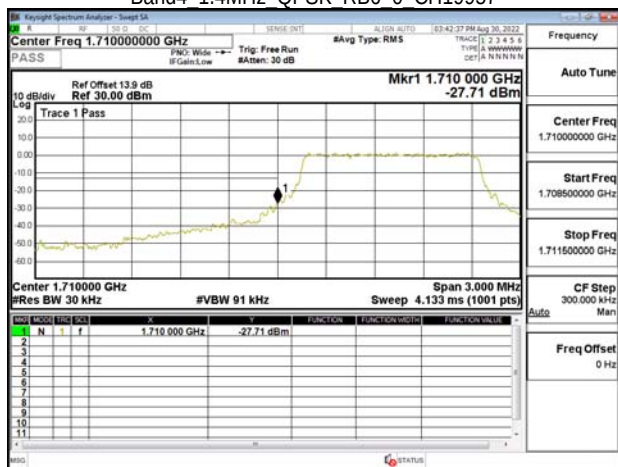


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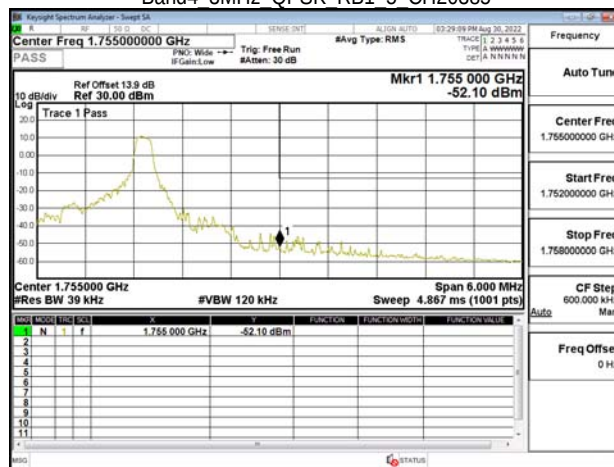
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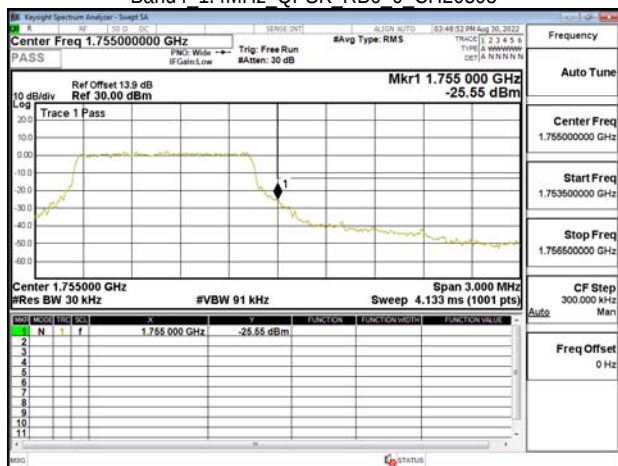
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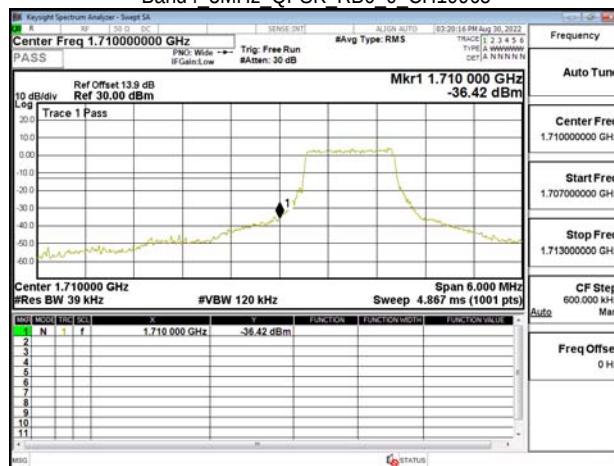
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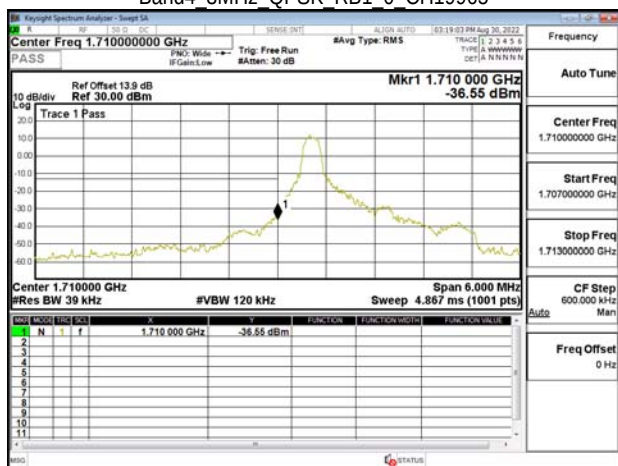
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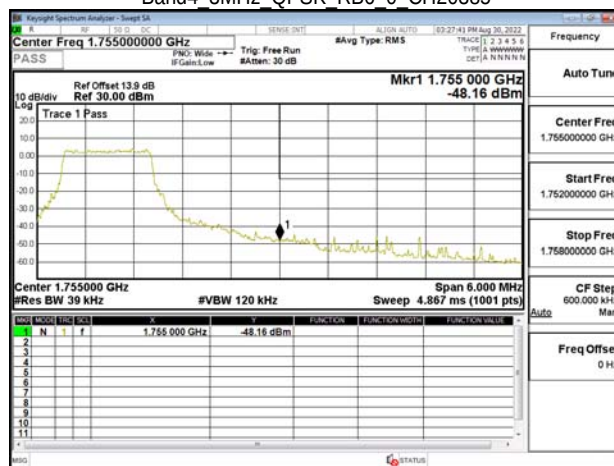
Band4 3MHz QPSK RB6 0 CH19965



Band4 3MHz QPSK RB1 0 CH19965



Band4 3MHz QPSK RB6 0 CH20385



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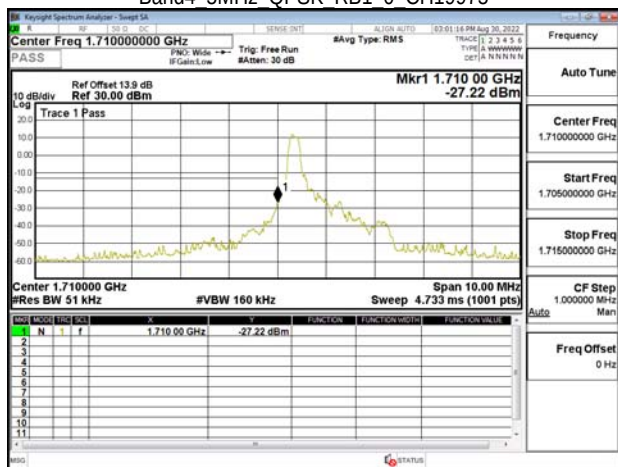
t (886-2) 2299-3279

f (886-2) 2298-0488

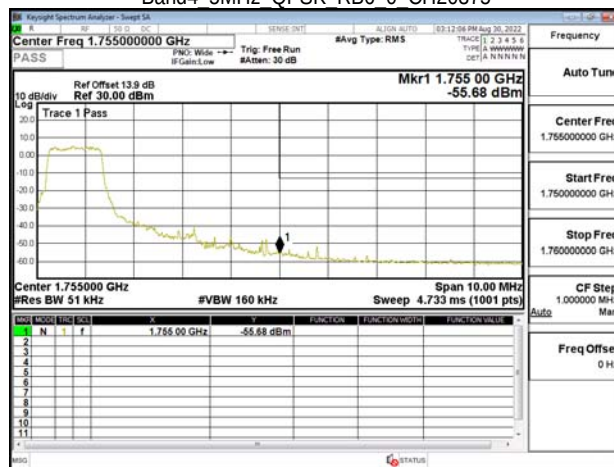
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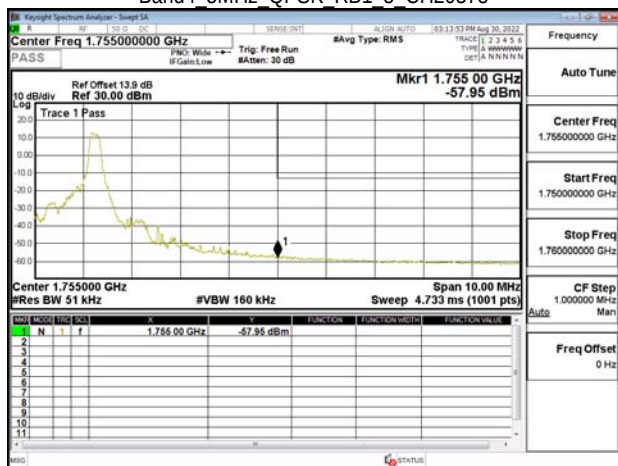
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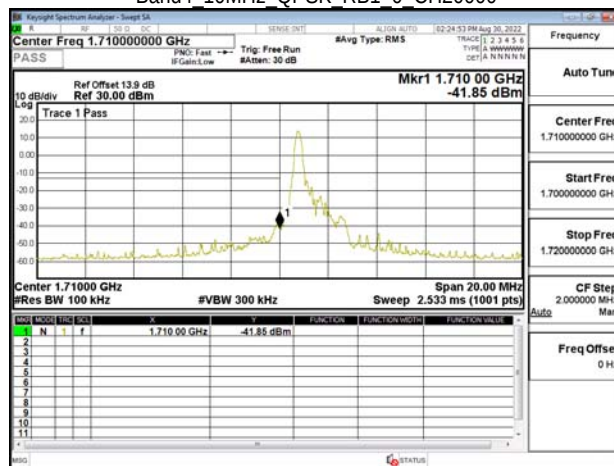
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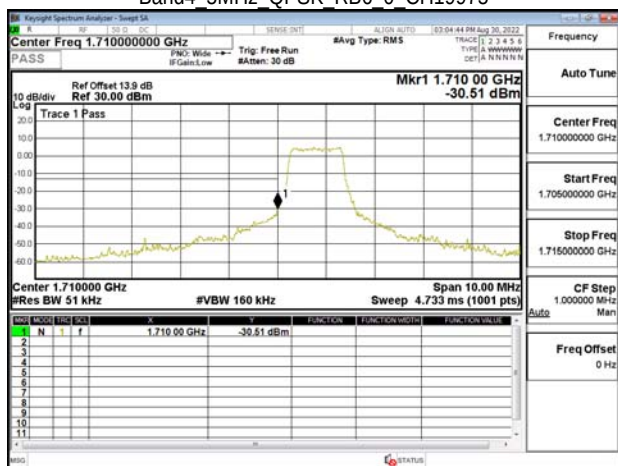
Band4 5MHz QPSK RB1 5 CH20375



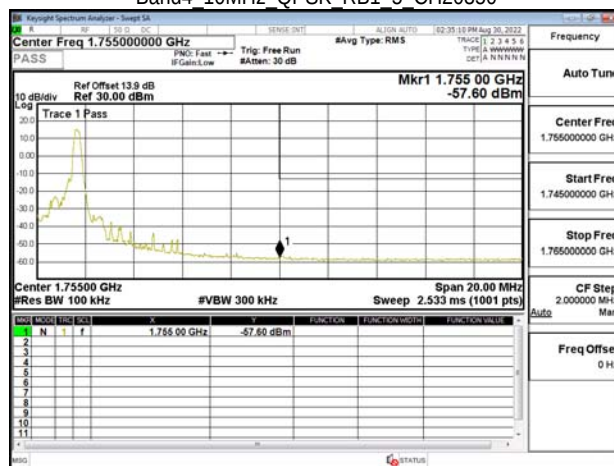
Band4 10MHz QPSK RB1 0 CH20000



Band4 5MHz QPSK RB6 0 CH19975



Band4 10MHz QPSK RB1 5 CH20350



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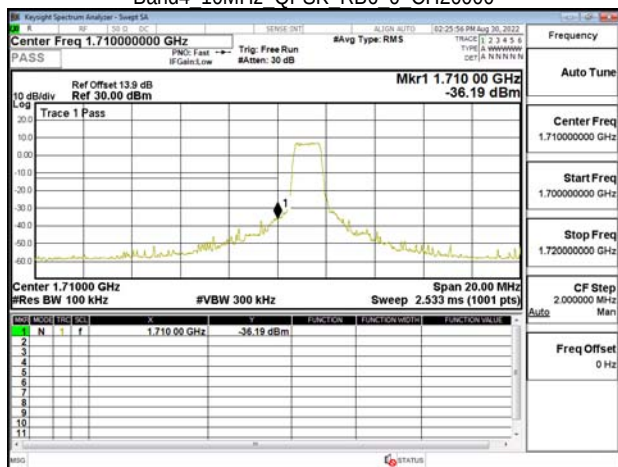
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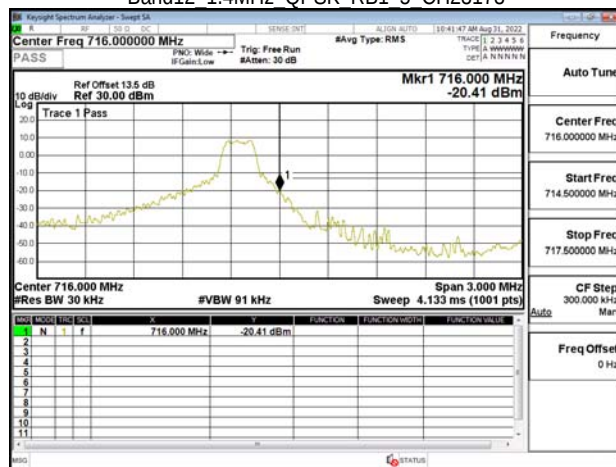
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Band4 10MHz QPSK RB6 0 CH20000



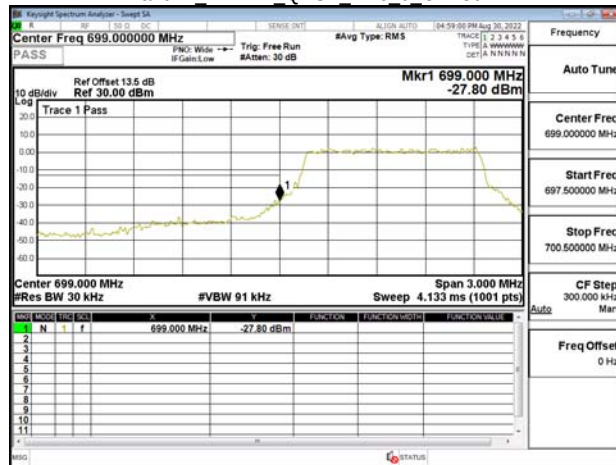
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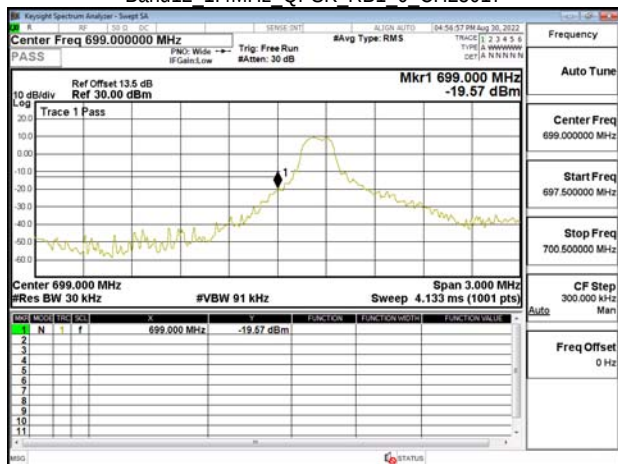
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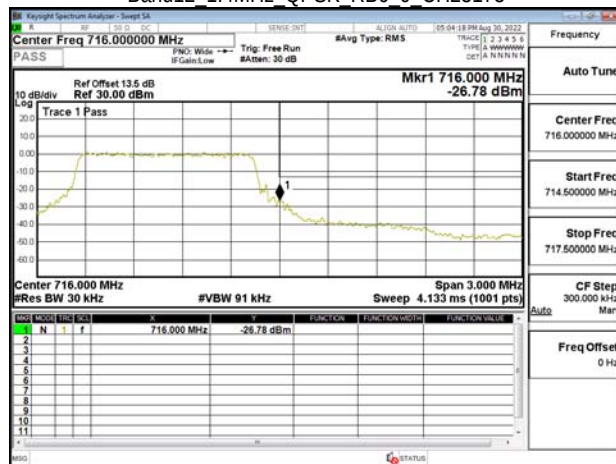
Band12 1.4MHz QPSK RB6 0 CH23017



Band12 1.4MHz QPSK RB1 0 CH23017



Band12 1.4MHz QPSK RB6 0 CH23173



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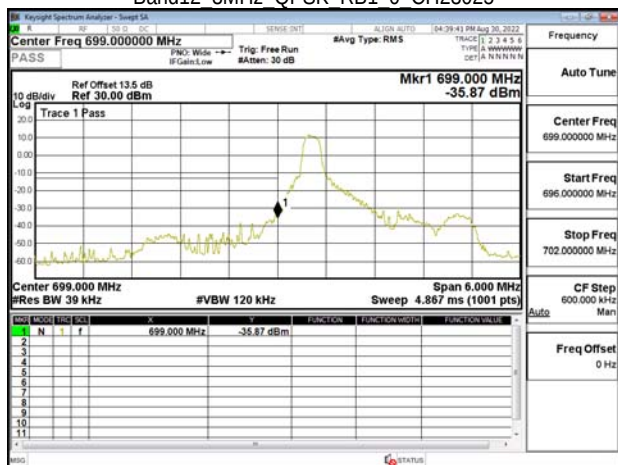
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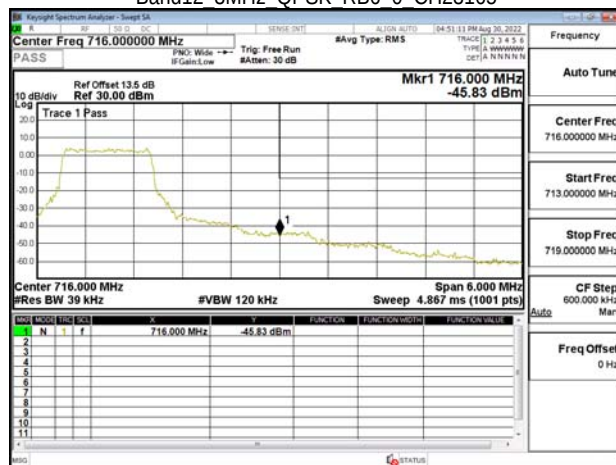
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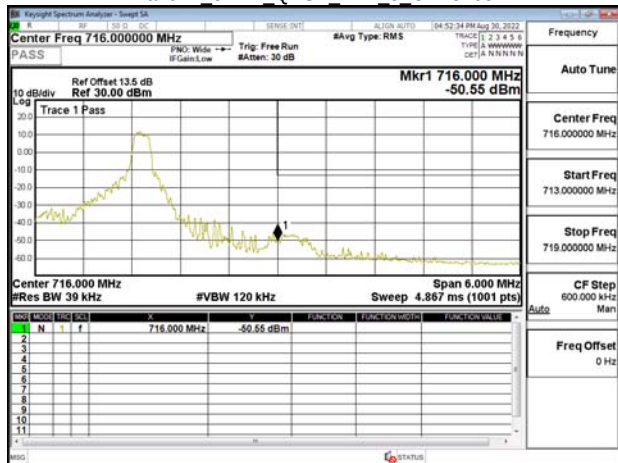
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Band12 3MHz QPSK RB6 0 CH23165



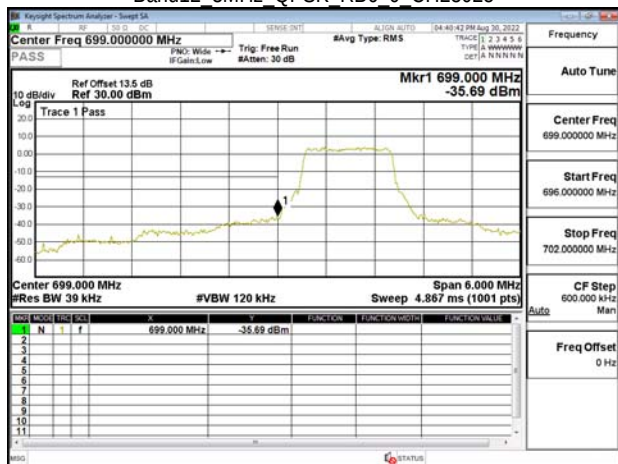
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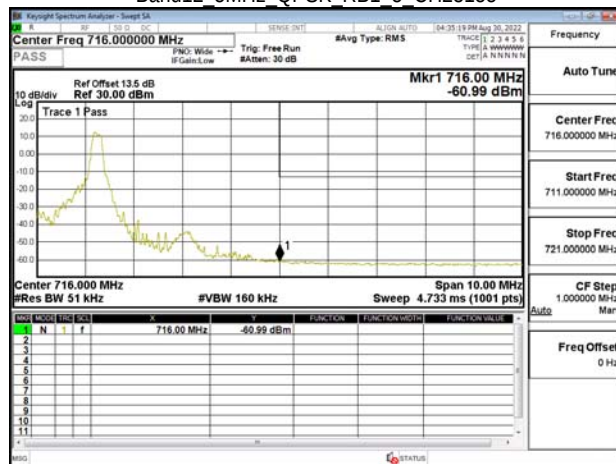
Band12 5MHz QPSK RB1 0 CH23035



Band12 3MHz QPSK RB6 0 CH23025



Band12 5MHz QPSK RB1 5 CH23155



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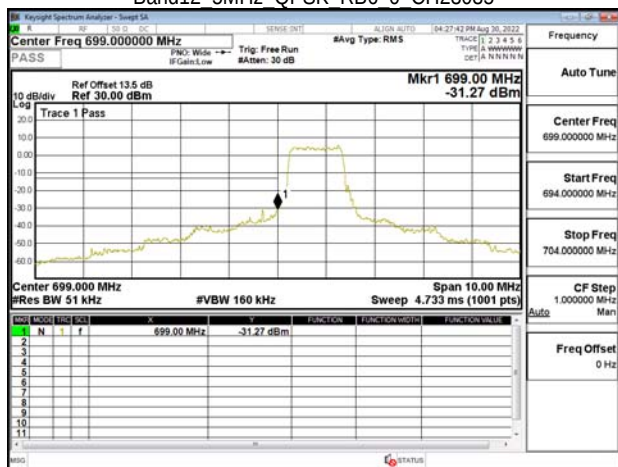
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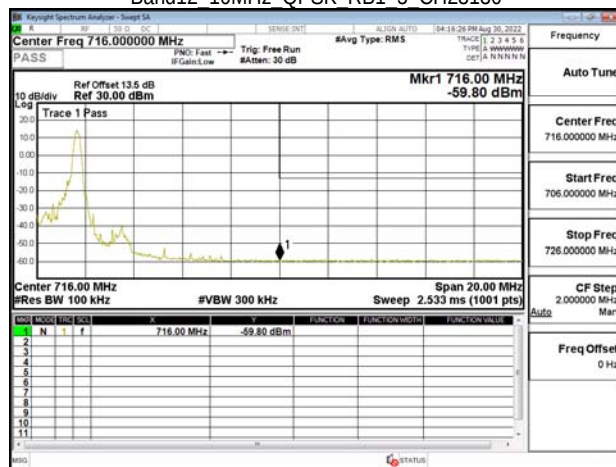
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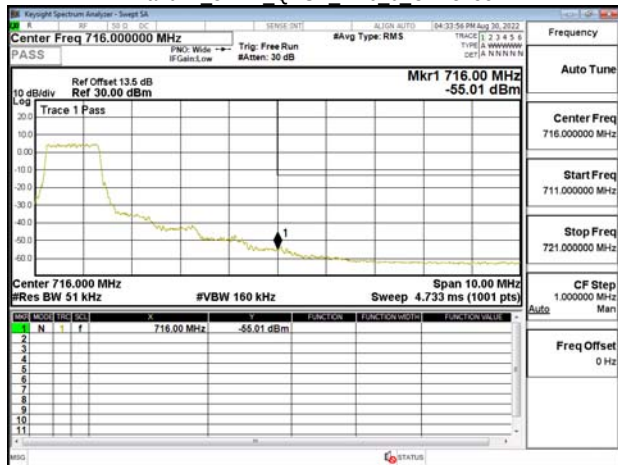
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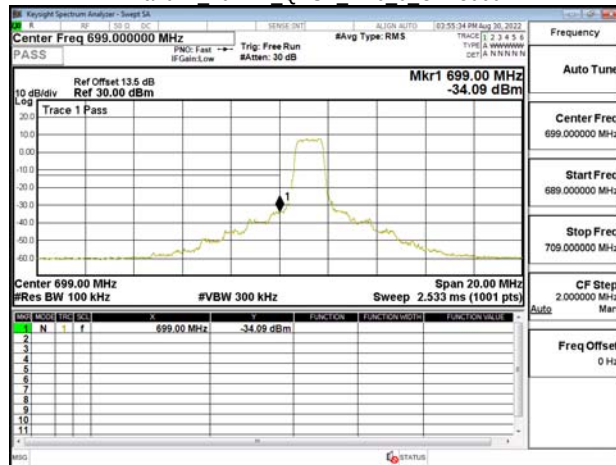
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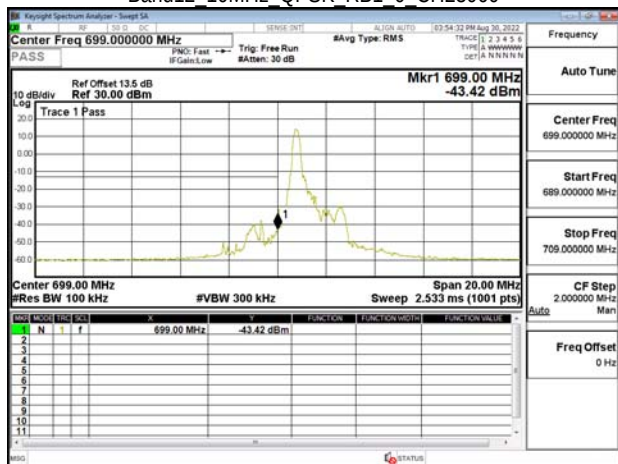
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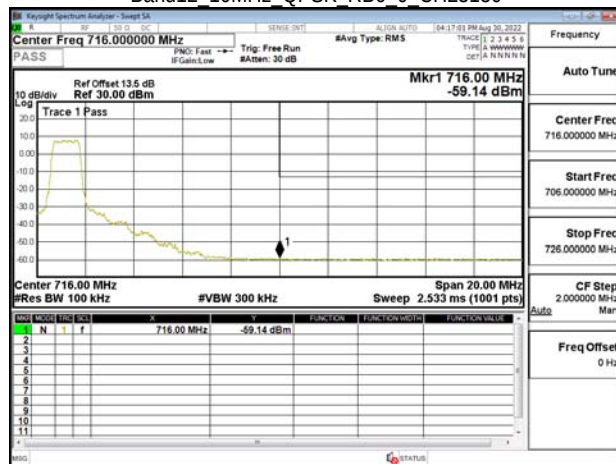
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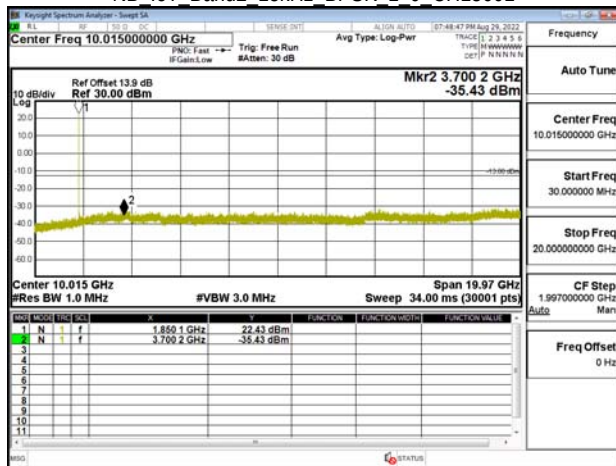
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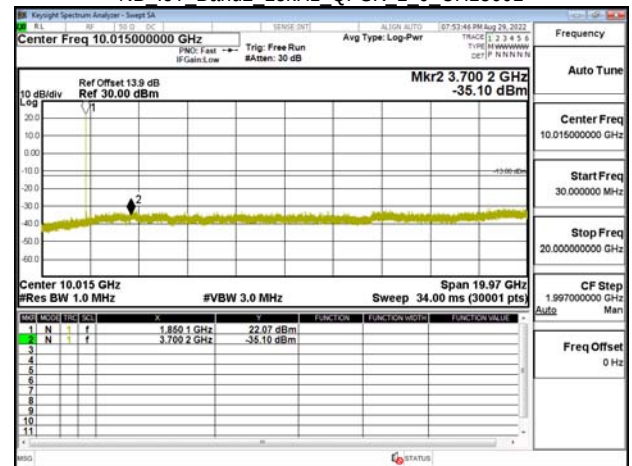
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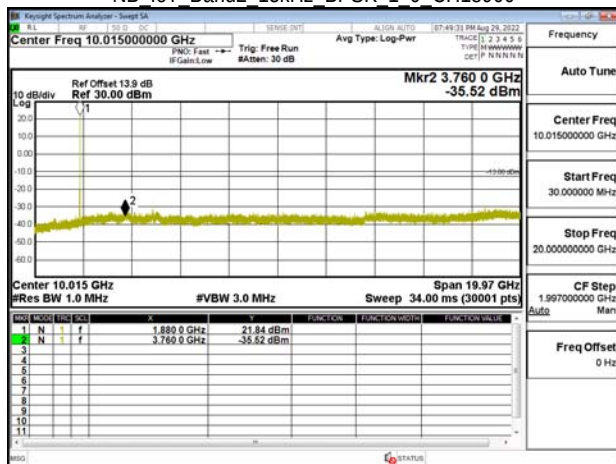
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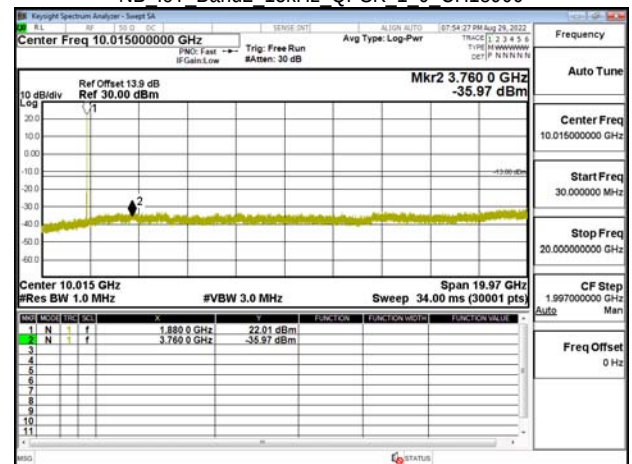
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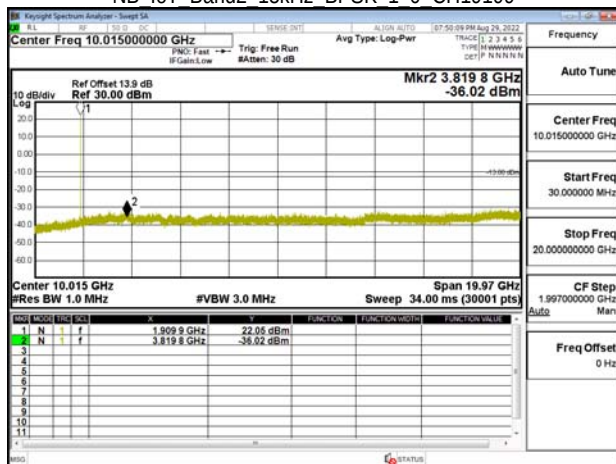
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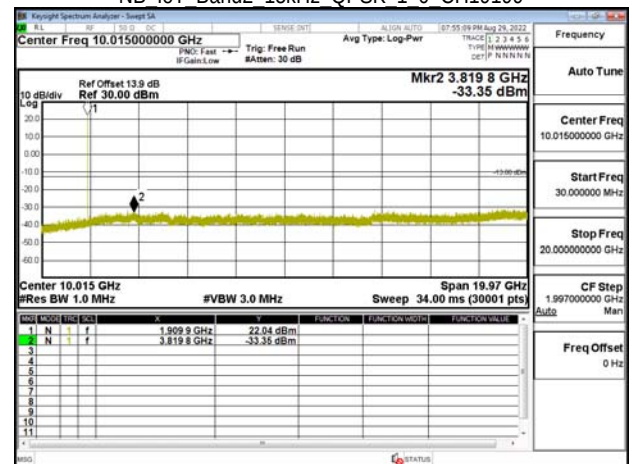
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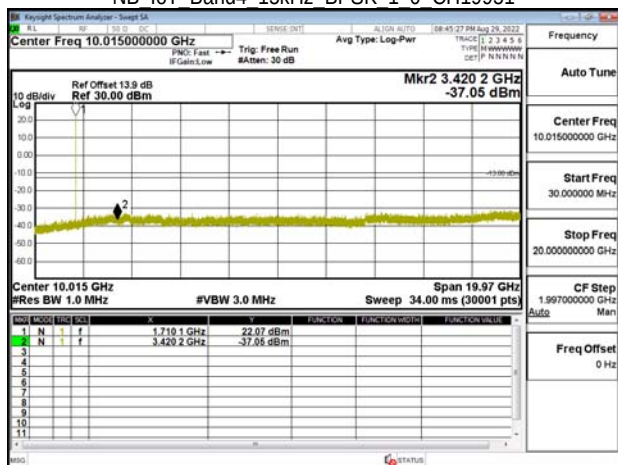


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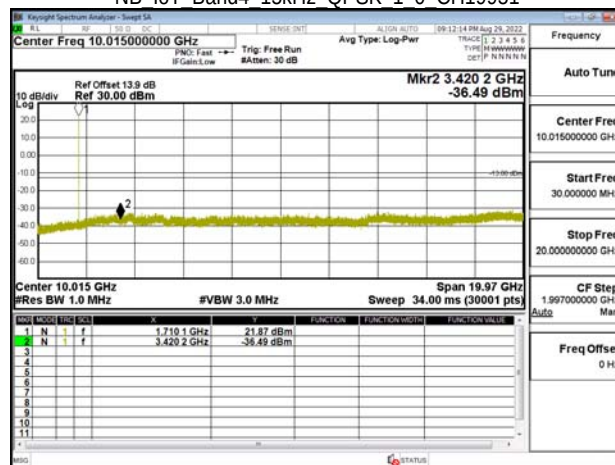
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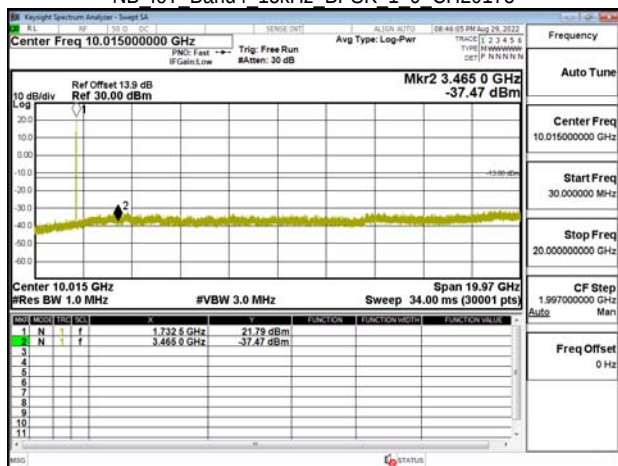
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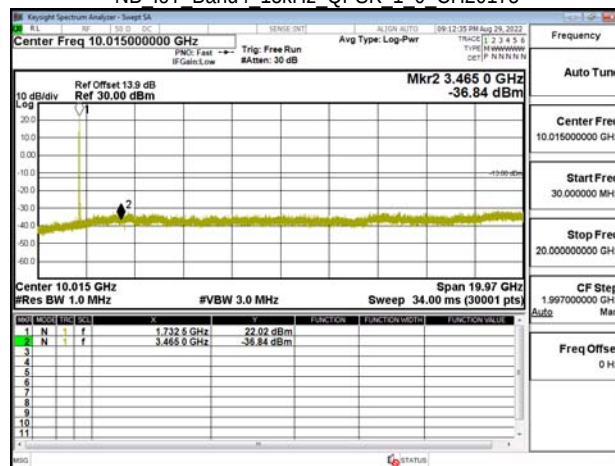
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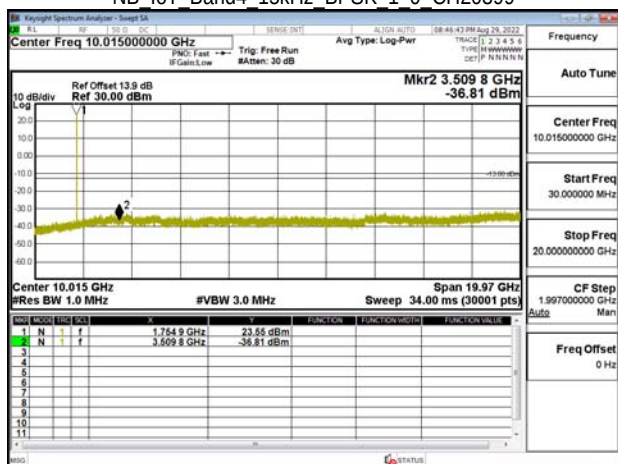
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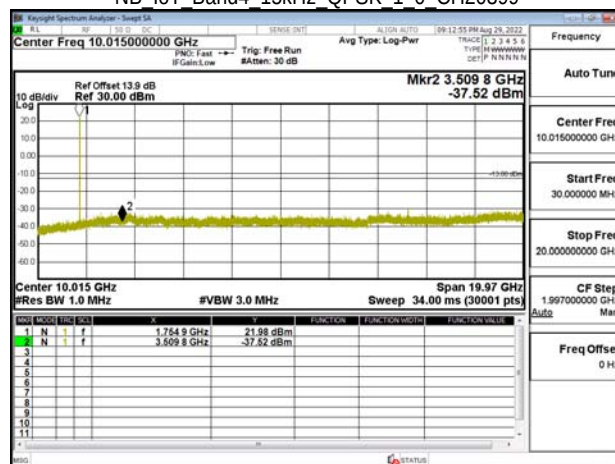
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NB IoT Band4 15kHz BPSK 1 0 CH20399



NB IoT Band4 15kHz QPSK 1 0 CH20399



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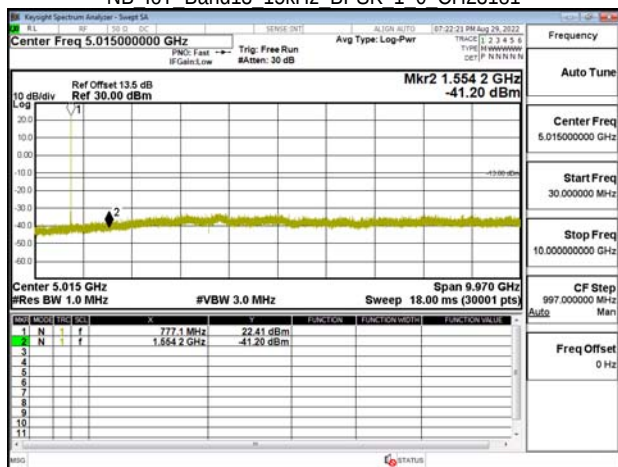
t (886-2) 2299-3279

f (886-2) 2298-0488

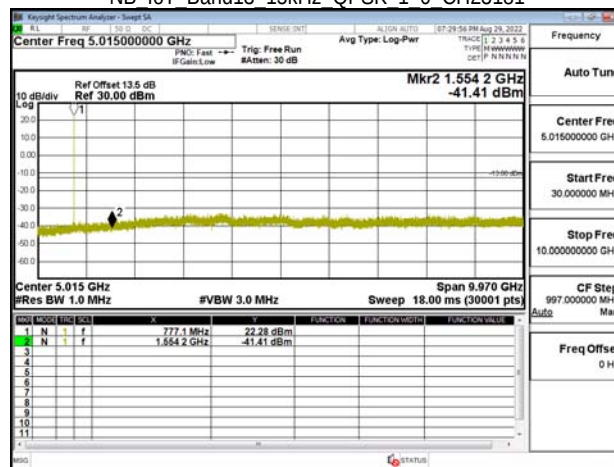
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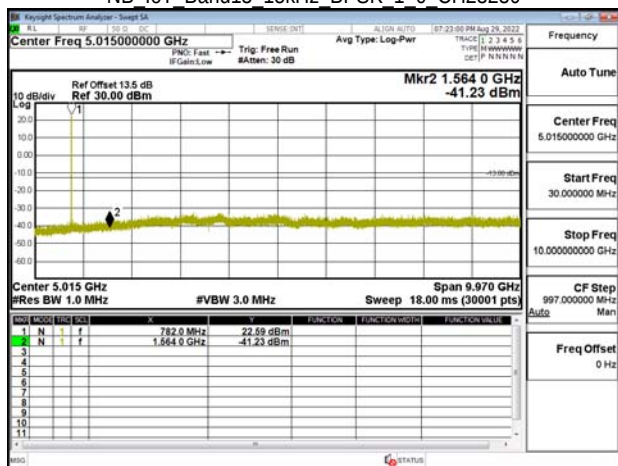
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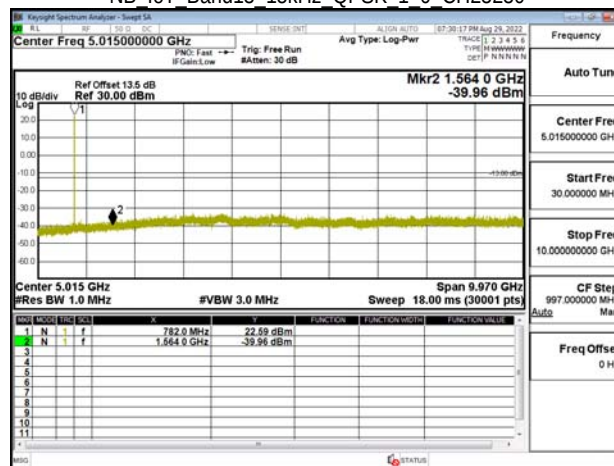
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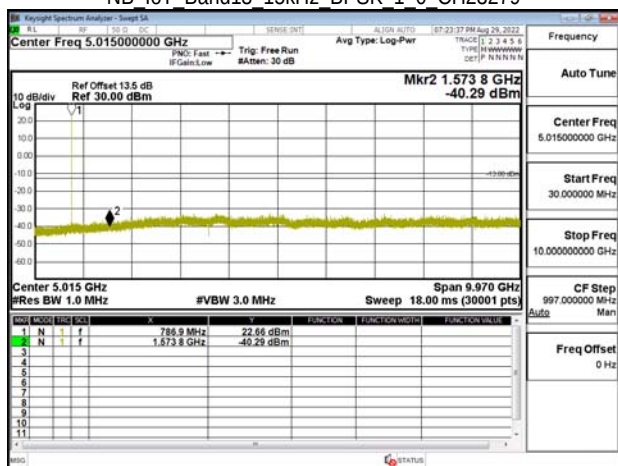
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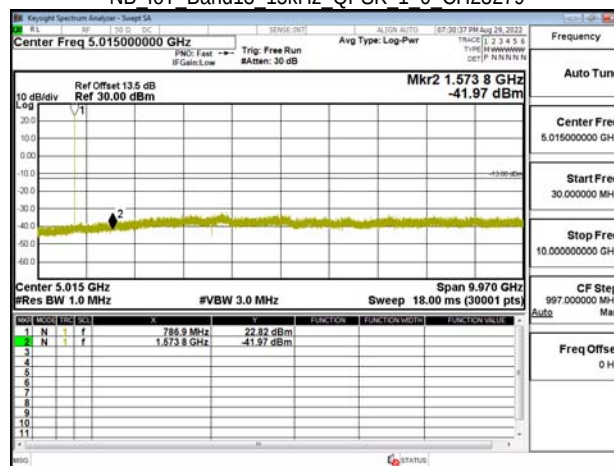
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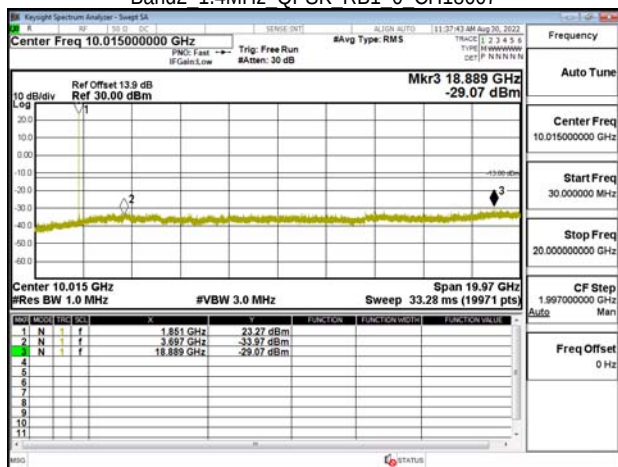
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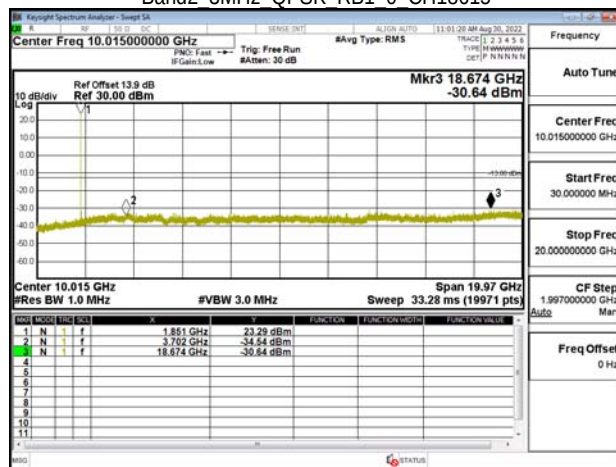
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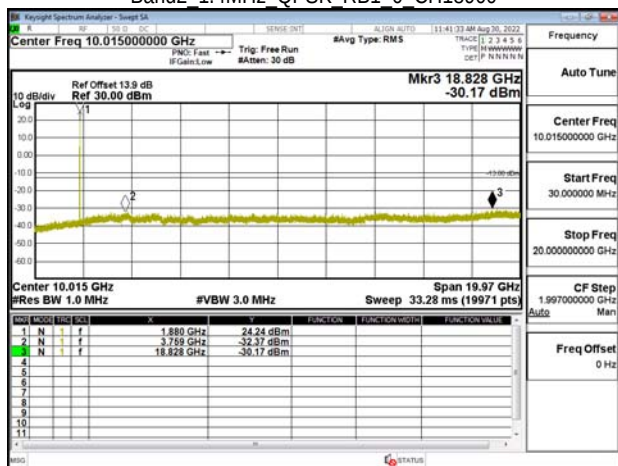
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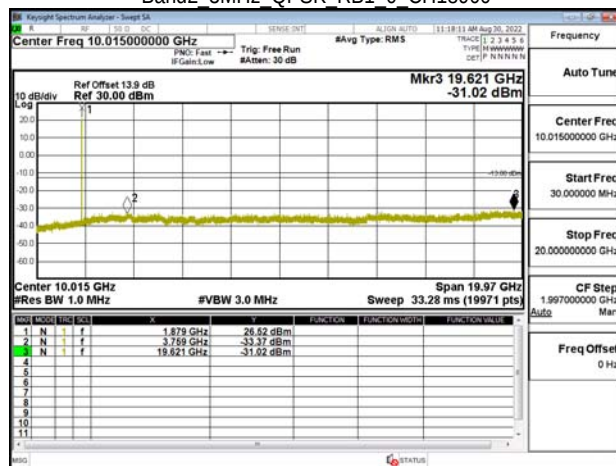
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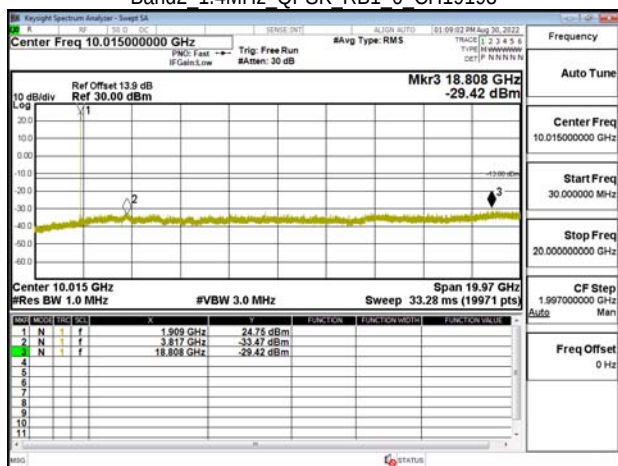
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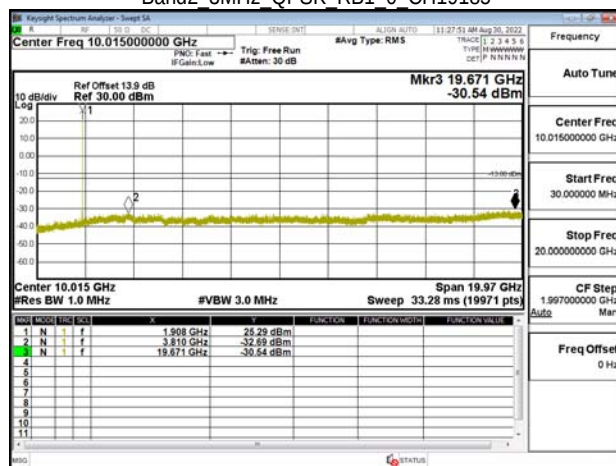
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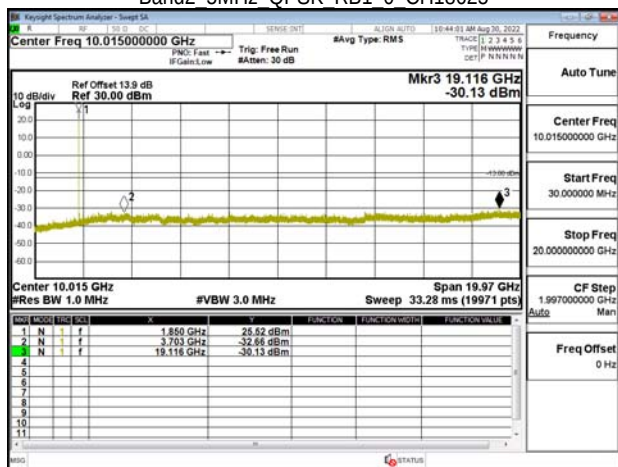


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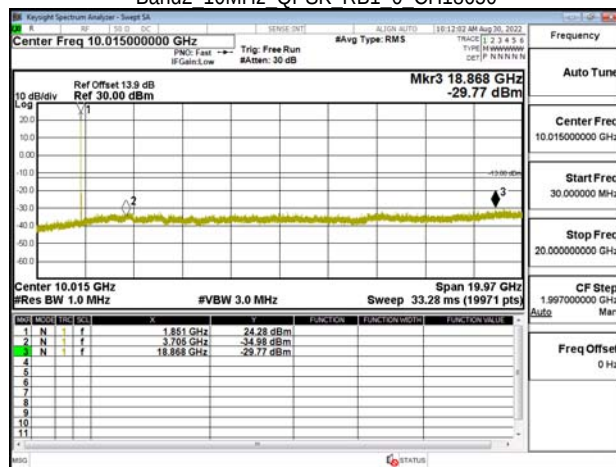
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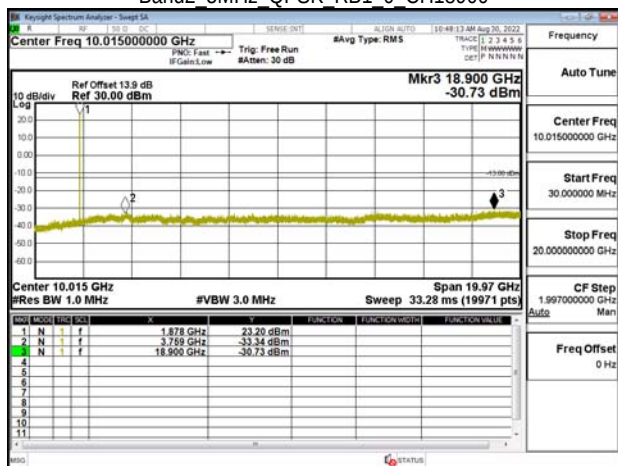
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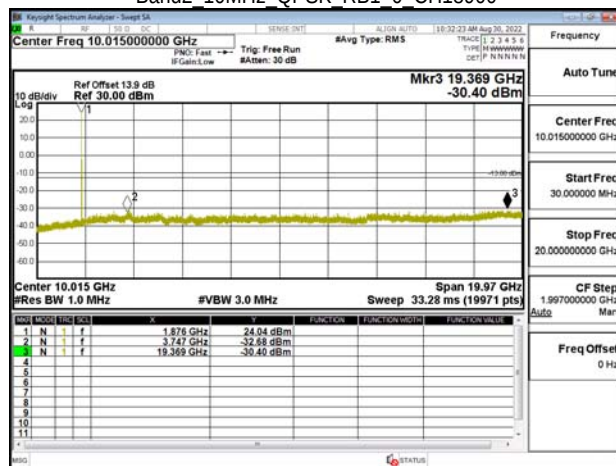
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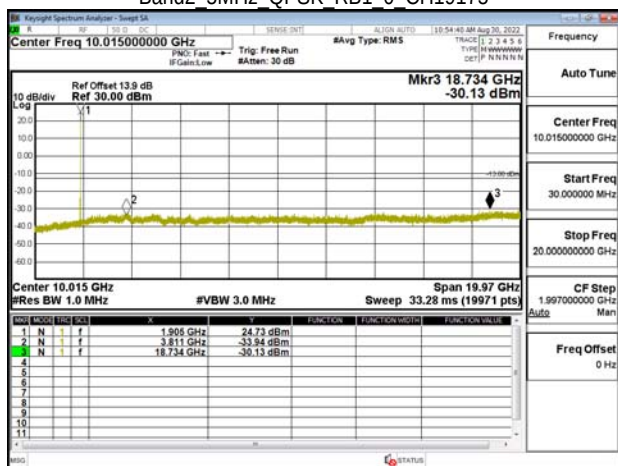
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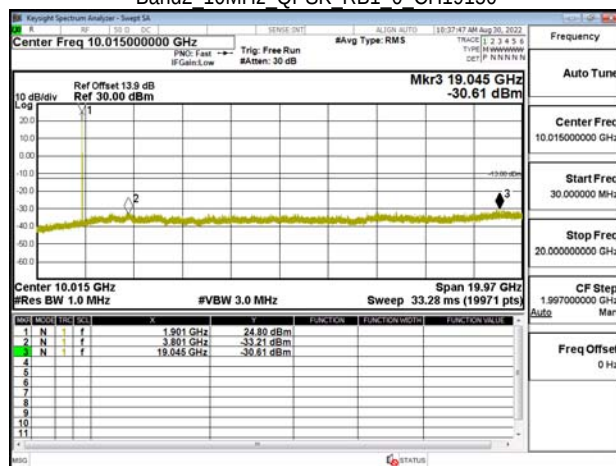
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