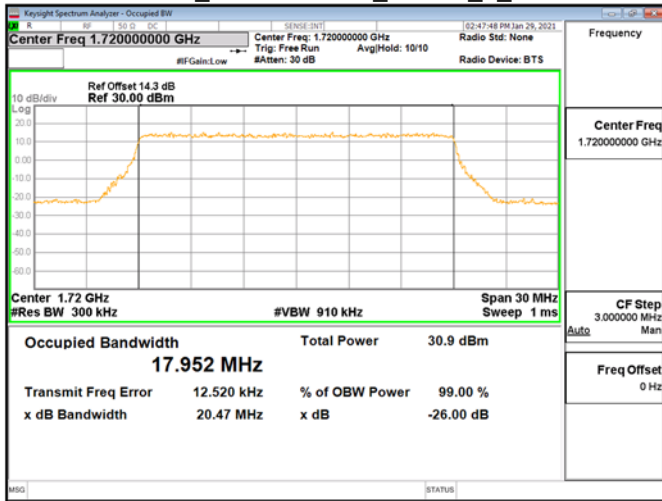
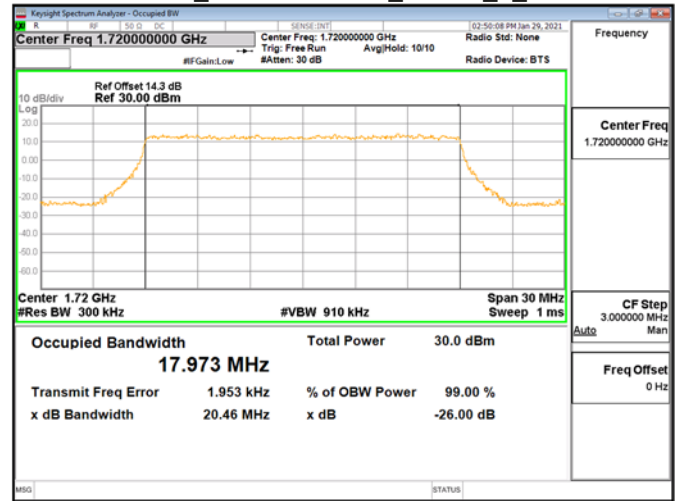


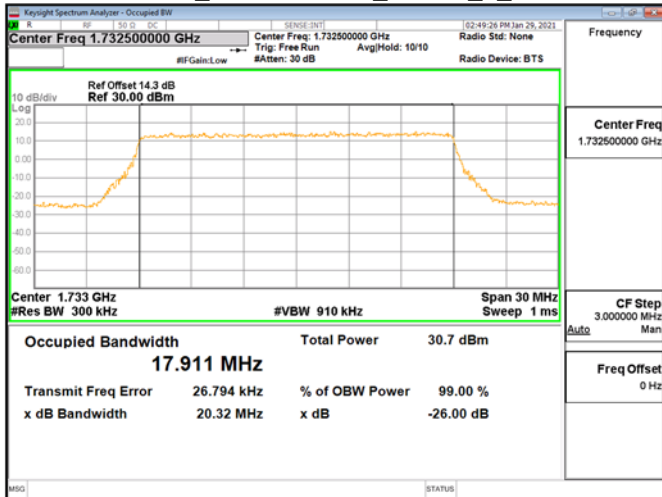
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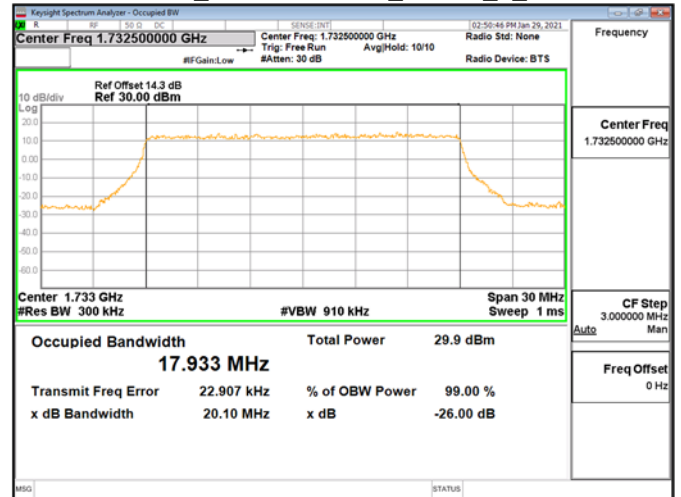
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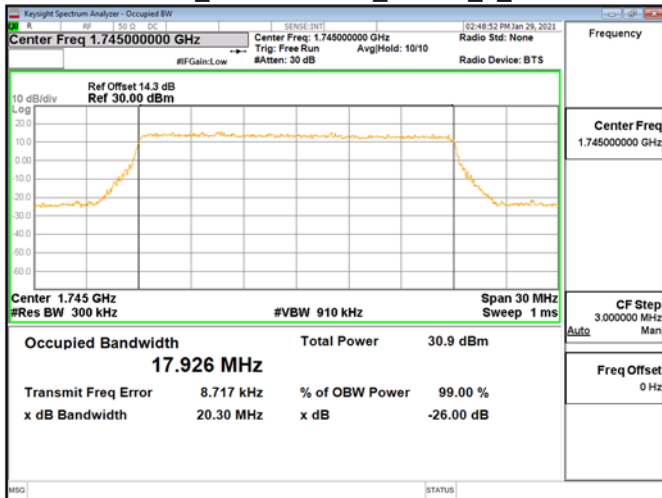
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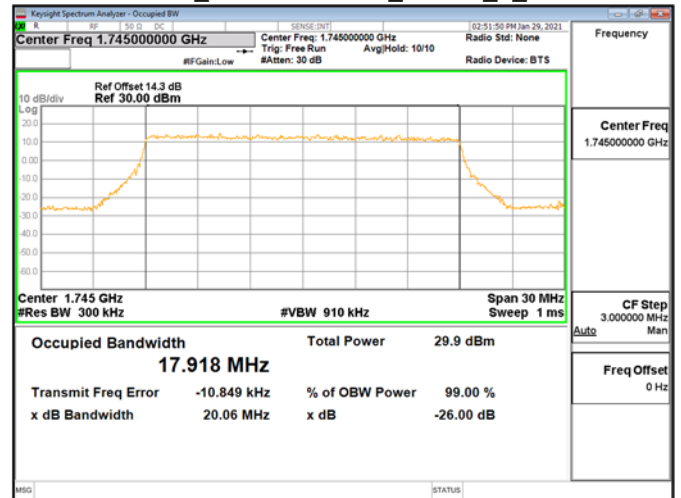
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OBWBand4_20MHz\QPSK_RB100_0_CH20300



OBWBand4_20MHz\16QAM_RB100_0_CH20300

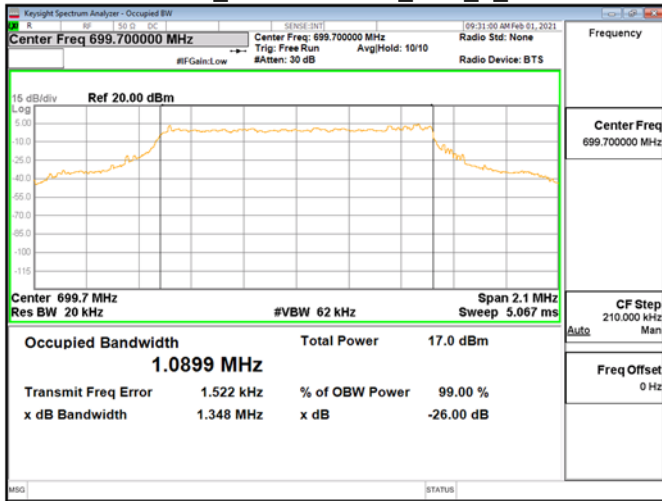


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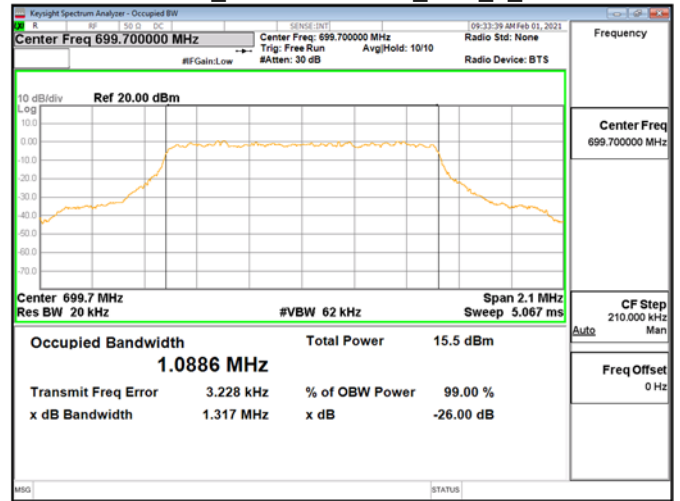
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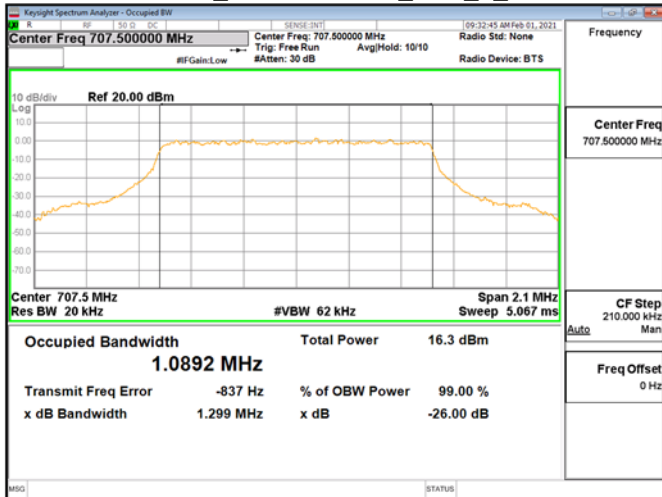
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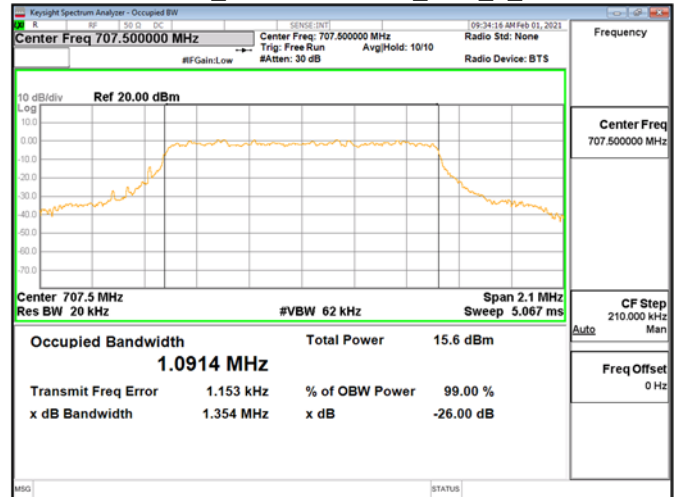
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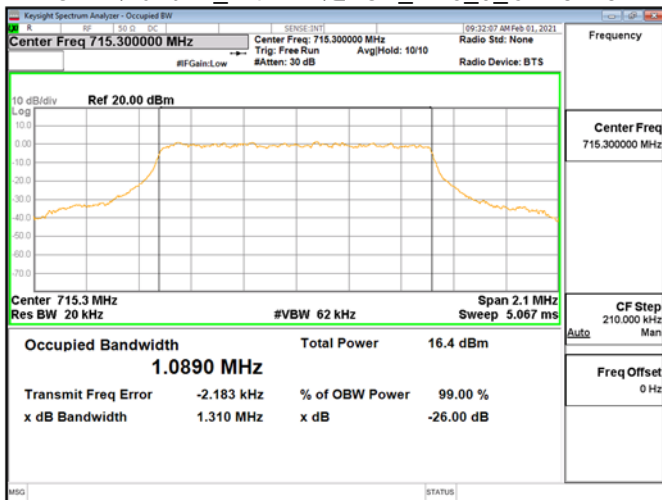
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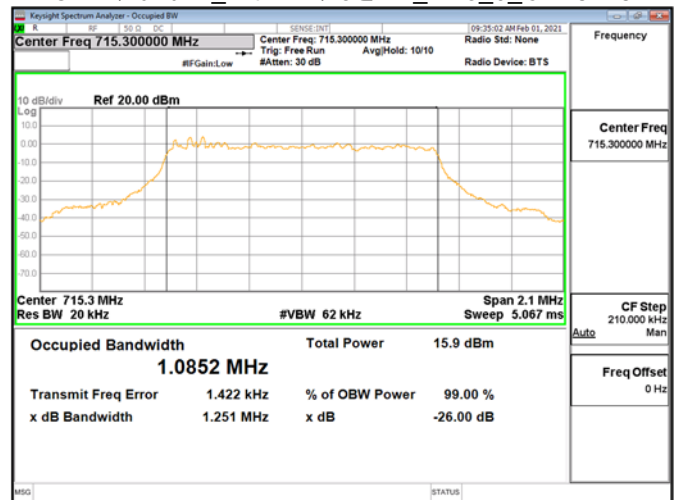
OBWBand12_1.4MHz\16QAM_RB6_0_CH23095



OBWBand12_1.4MHz\QPSK_RB6_0_CH23173



OBWBand12_1.4MHz\16QAM_RB6_0_CH23173

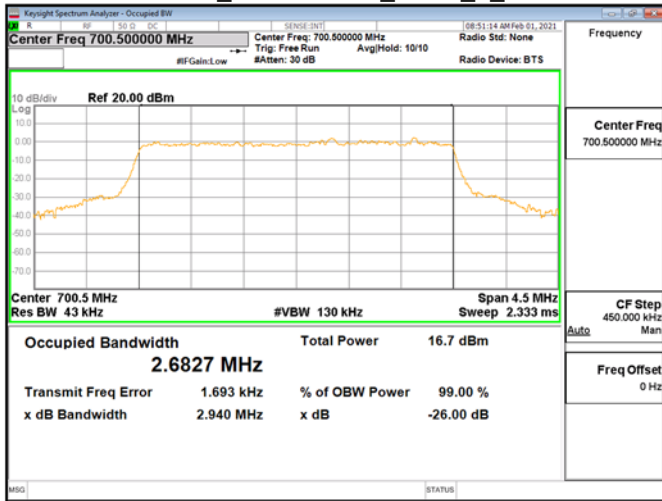


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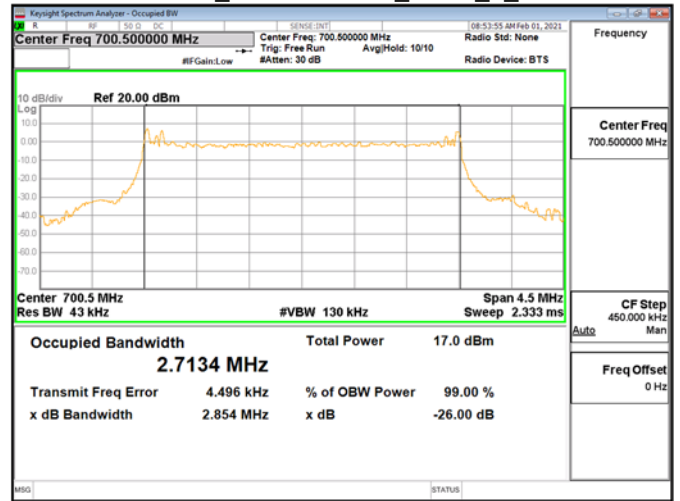
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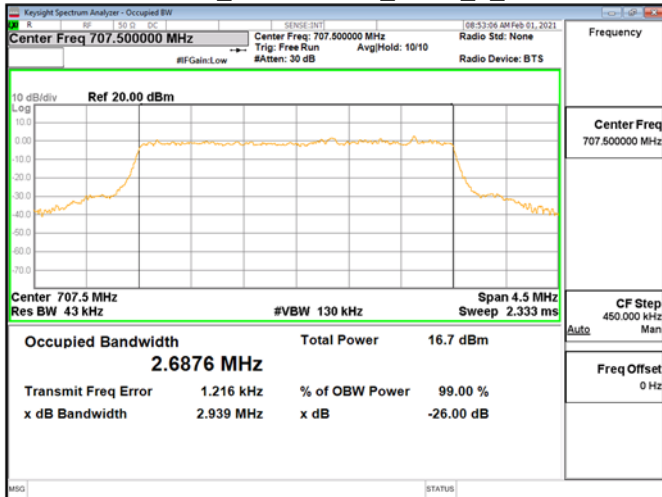
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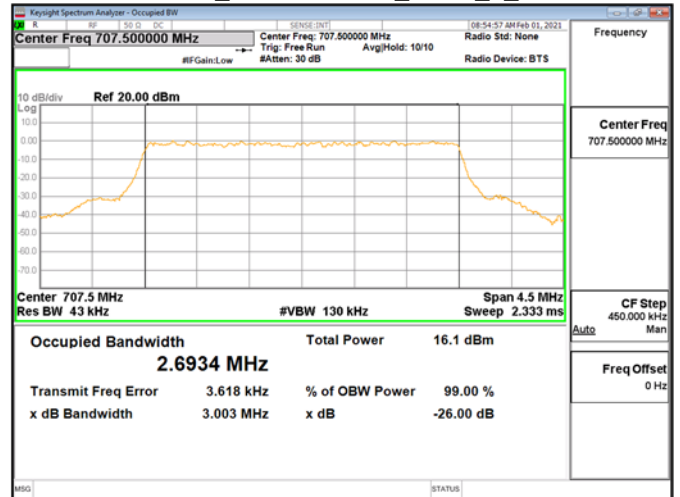
OBWBand12_3MHz\16QAM_RB15_0_CH23025



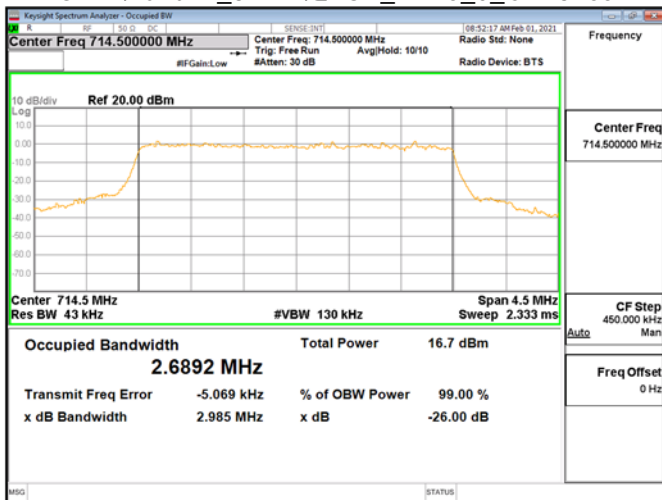
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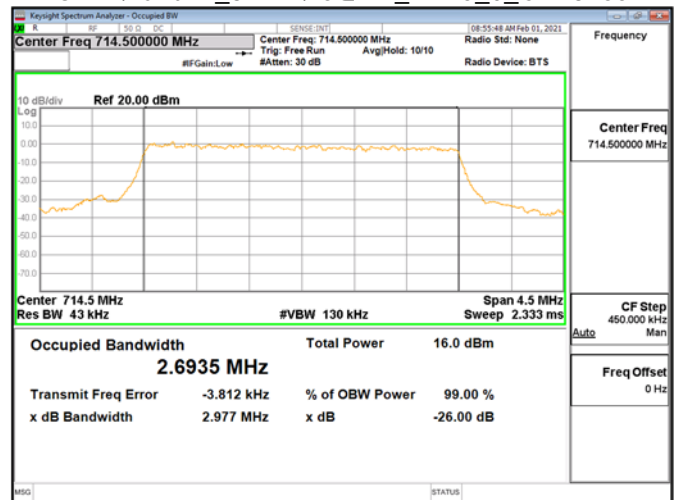
OBWBand12_3MHz\16QAM_RB15_0_CH23095



OBWBand12_3MHzQPSK_RB15_0_CH23165



OBWBand12_3MHz\16QAM_RB15_0_CH23165

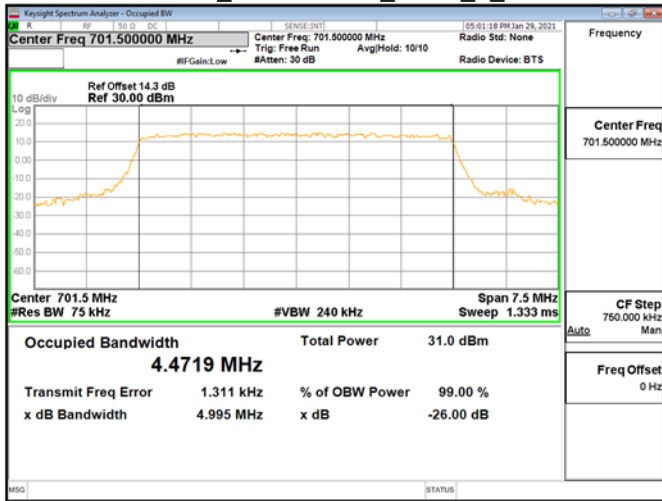


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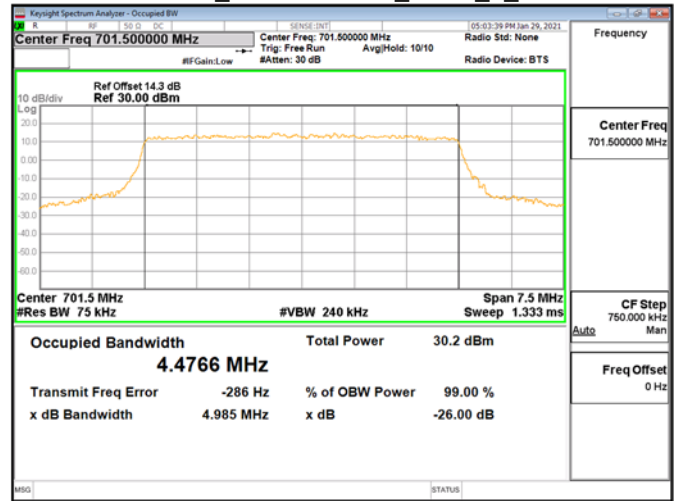
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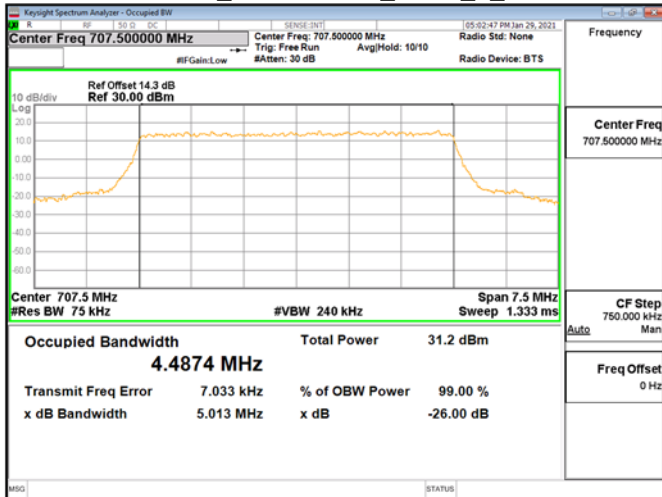
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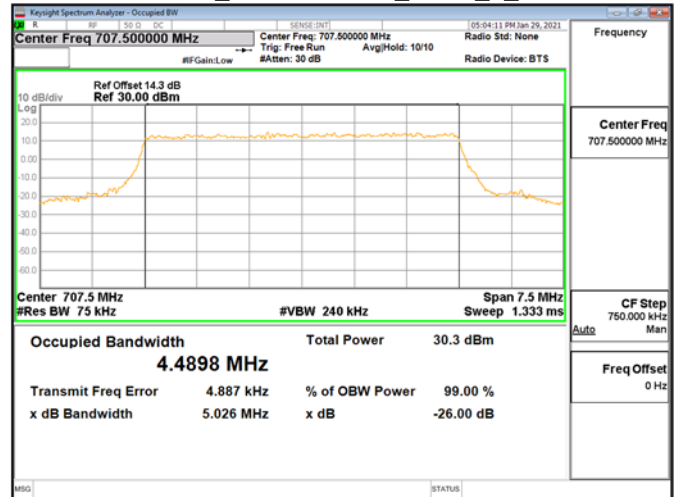
OBWBand12_5MHz\16QAM_RB25_0_CH23035



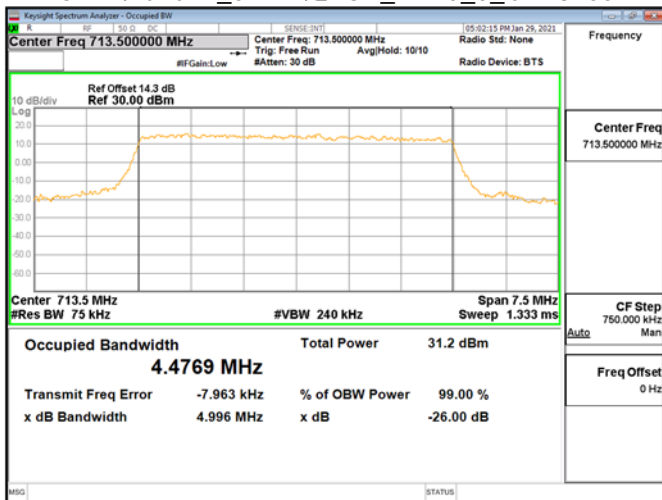
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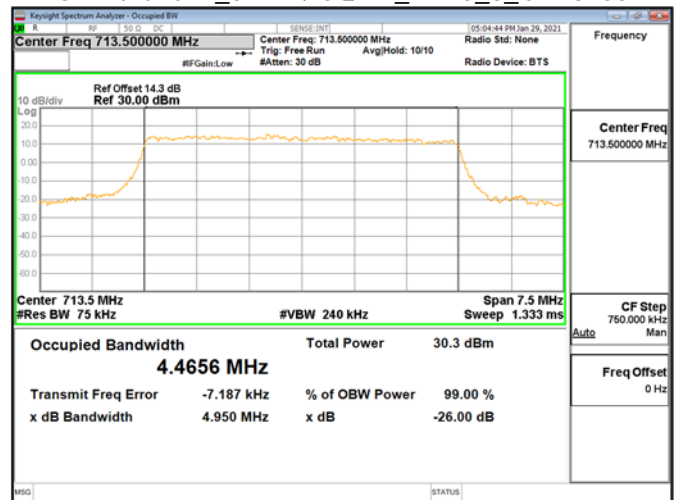
OBWBand12_5MHz\16QAM_RB25_0_CH23095



OBWBand12_5MHzQPSK_RB25_0_CH23155



OBWBand12_5MHz\16QAM_RB25_0_CH23155

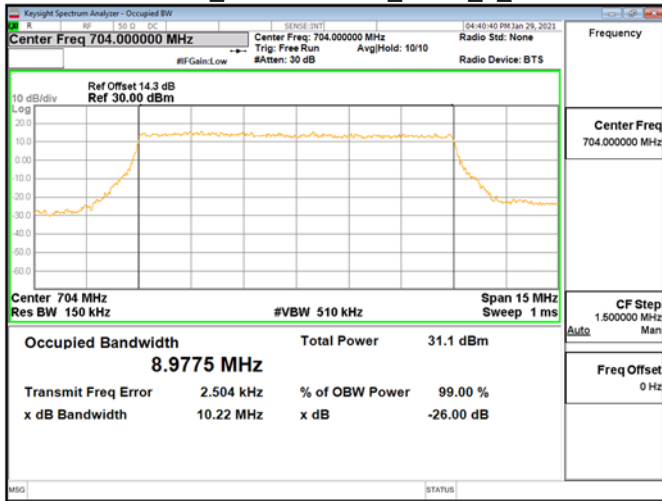


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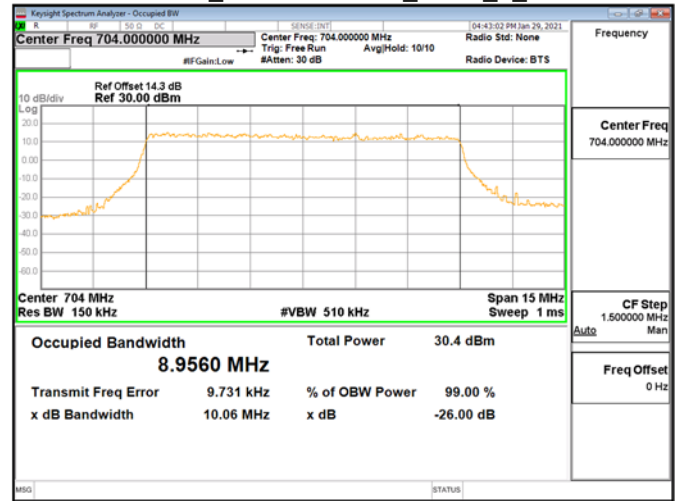
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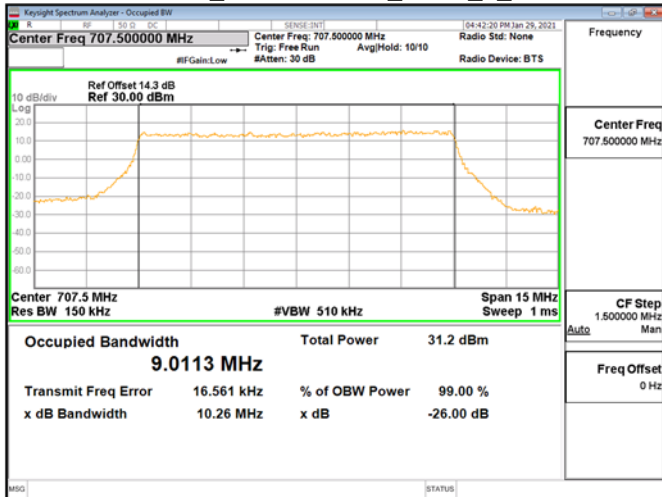
OBWBand12_10MHz\QPSK_RB50_0_CH23060



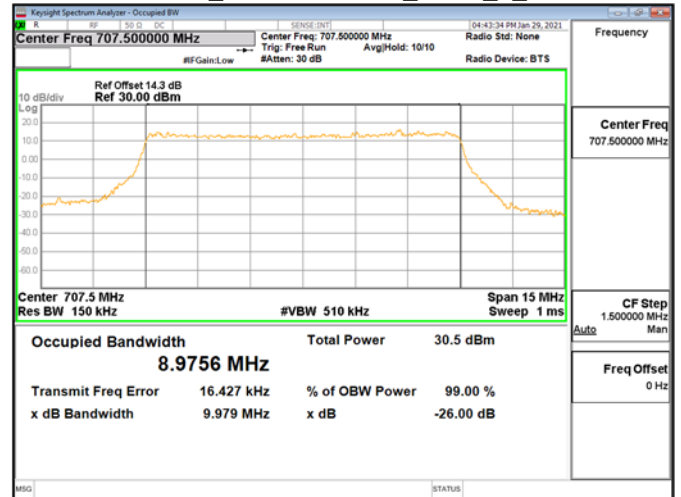
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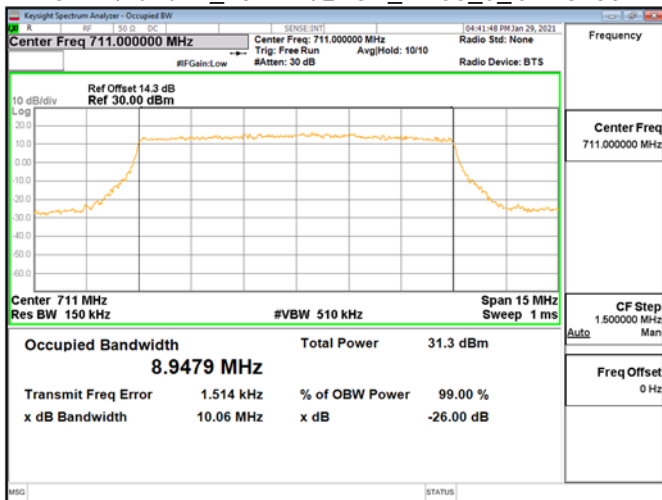
OBWBand12_10MHz\QPSK_RB50_0_CH23095



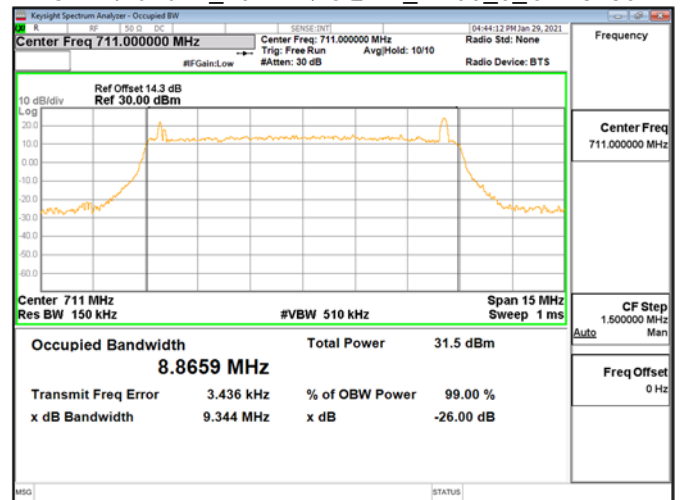
OBWBand12_10MHz\16QAM_RB50_0_CH23095



OBWBand12_10MHz\QPSK_RB50_0_CH23130



OBWBand12_10MHz\16QAM_RB50_0_CH23130



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8 OUT OF BAND EMISSION AT ANTENNA TERMINALS

8.1 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.

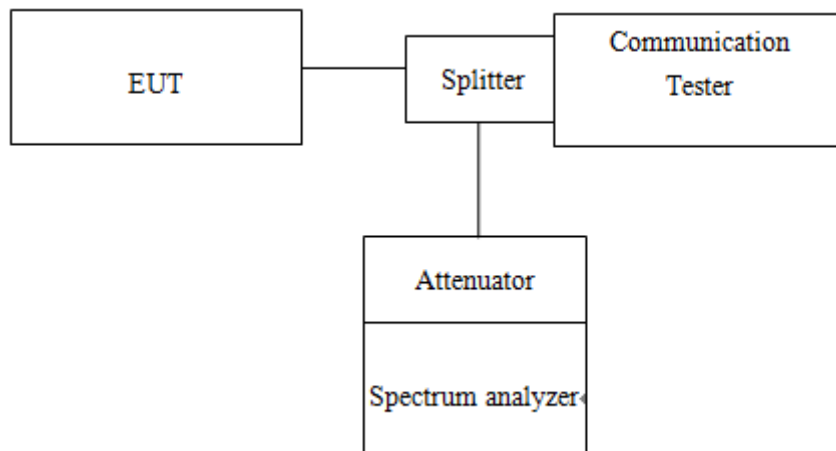
FCC §27.53(g) for LTE B12

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.

FCC §27.53(h)(1) for LTE B4

(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.

8.2 Test SET-UP



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8.3 Measurement Procedure

8.3.1 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.

8.3.2 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.

8.4 Measurement Equipment Used

Conducted Emission Test Site: Conducted A					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY57120290	02/20/2020	02/19/2021
Radio Communication Analyzer	Anritsu	MT8820C	6201465316	06/18/2020	06/17/2021
DC Power Supply	DHA	DPS-3003	9411005787	08/19/2020	08/18/2021
Attenuator	Marvelous	MVE2213-10	RF06	11/19/2020	11/18/2021
DC Block	PASTERNAK	PE8210	RF152	11/19/2020	11/18/2021
Splitter	Marvelous Microwave	MVE8586	RF259	11/19/2020	11/18/2021
Coaxial Cables	Woken	00100A1F1A185 C	RF55	11/19/2020	11/18/2021

8.5 Measurement Result:

Refer to next pages.

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Band Edge\Band2_1.4MHz\QPSK_RB1_0_CH18607



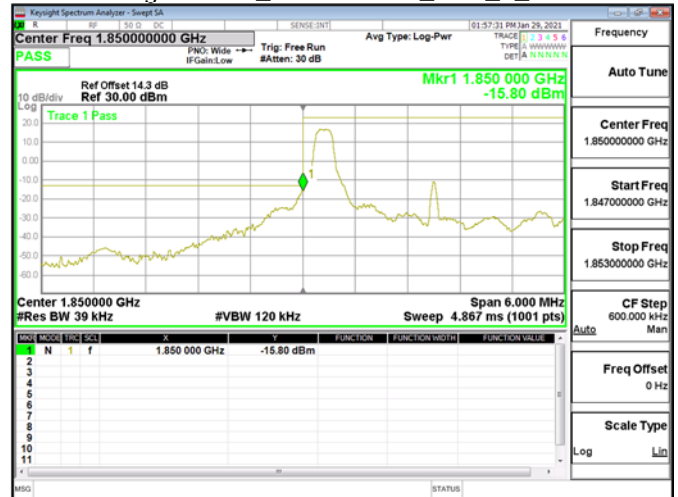
Band Edge\Band2_1.4MHz\QPSK_RB6_0_CH19193



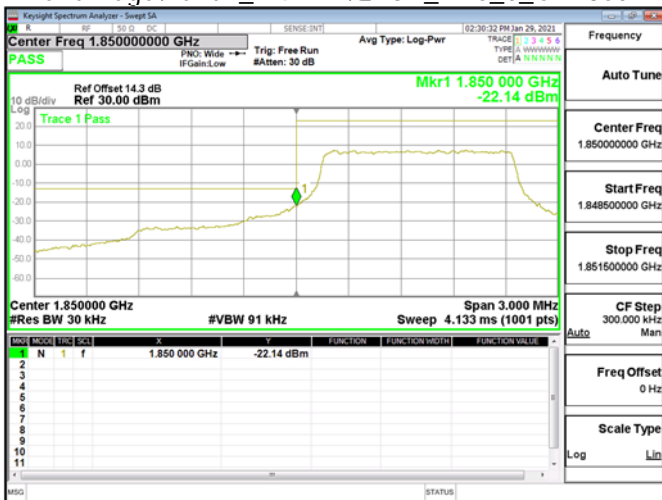
Band Edge\Band2_1.4MHz\QPSK_RB1_5_CH19193



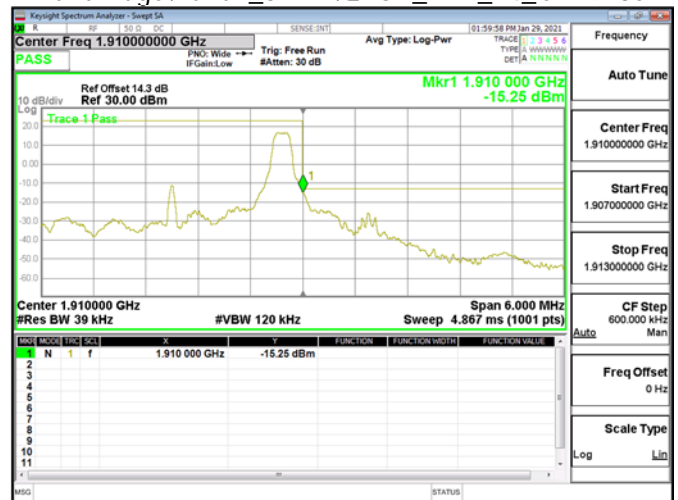
Band Edge\Band2_3MHz\QPSK_RB1_0_CH18615



Band Edge\Band2_1.4MHz\QPSK_RB6_0_CH18607



Band Edge\Band2_3MHz\QPSK_RB1_14_CH19185



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Band Edge\Band2_3MHz\QPSK_RB15_0_CH18615



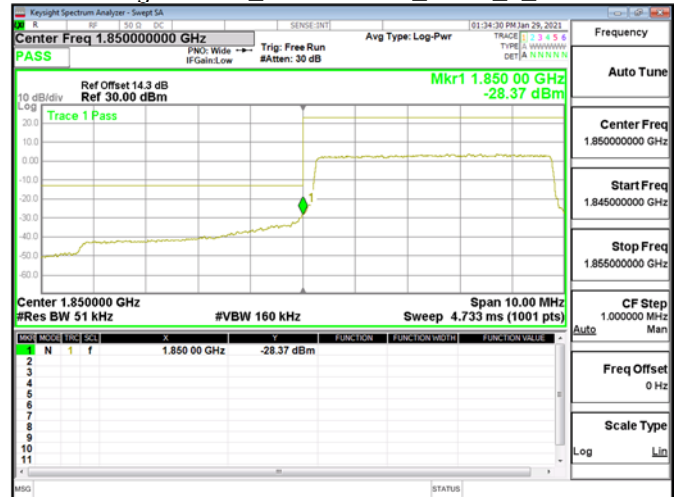
Band Edge\Band2_5MHz\QPSK_RB1_24_CH19175



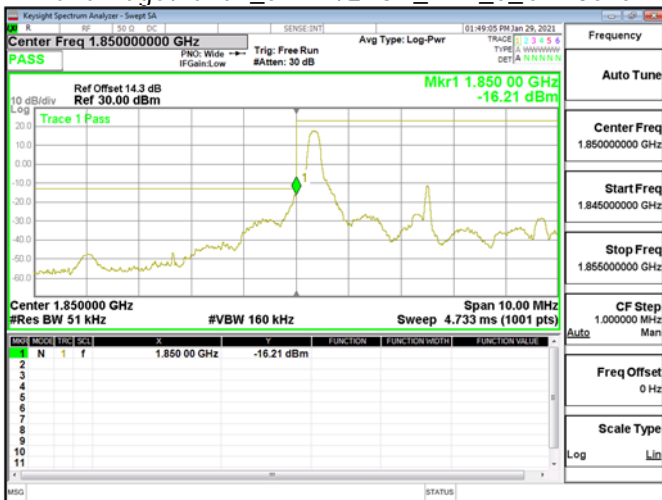
Band Edge\Band2_3MHz\QPSK_RB15_0_CH19185



Band Edge\Band2_5MHz\QPSK_RB25_0_CH18625



Band Edge\Band2_5MHz\QPSK_RB1_0_CH18625



Band Edge\Band2_5MHz\QPSK_RB25_0_CH19175



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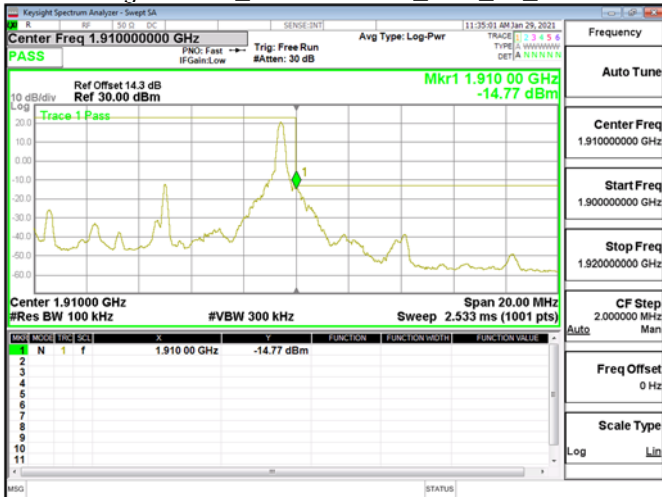
Band Edge\Band2_10MHz\QPSK_RB1_0_CH18650



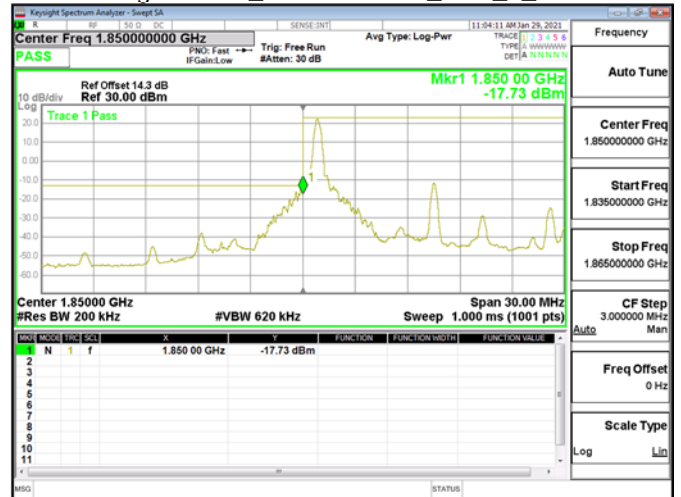
Band Edge\Band2_10MHz\QPSK_RB50_0_CH19150



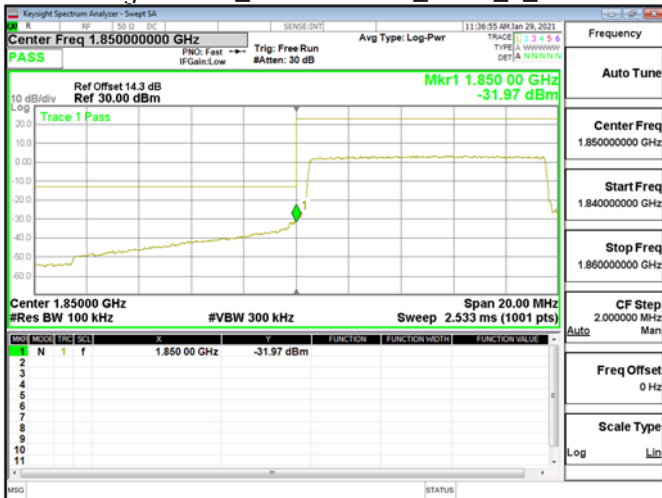
Band Edge\Band2_10MHz\QPSK_RB1_49_CH19150



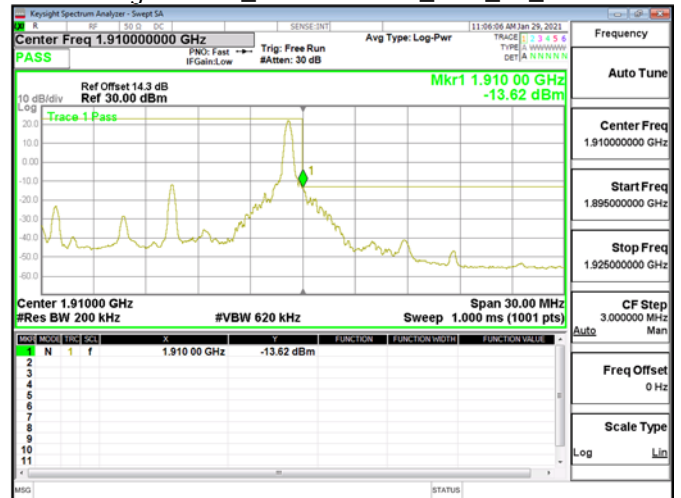
Band Edge\Band2_15MHz\QPSK_RB1_0_CH18675



Band Edge\Band2_10MHz\QPSK_RB50_0_CH18650



Band Edge\Band2_15MHz\QPSK_RB1_74_CH19125

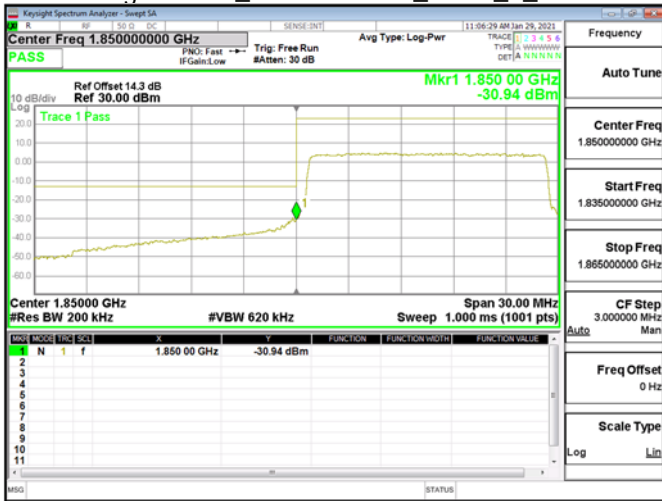


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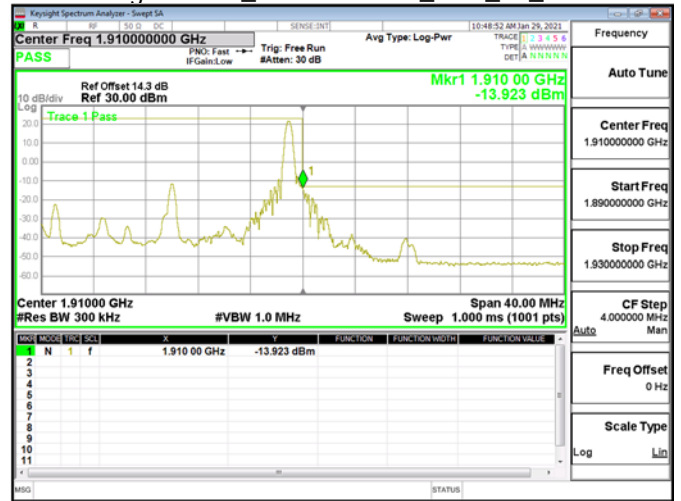
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Band Edge\Band2_15MHz\QPSK_RB75_0_CH18675



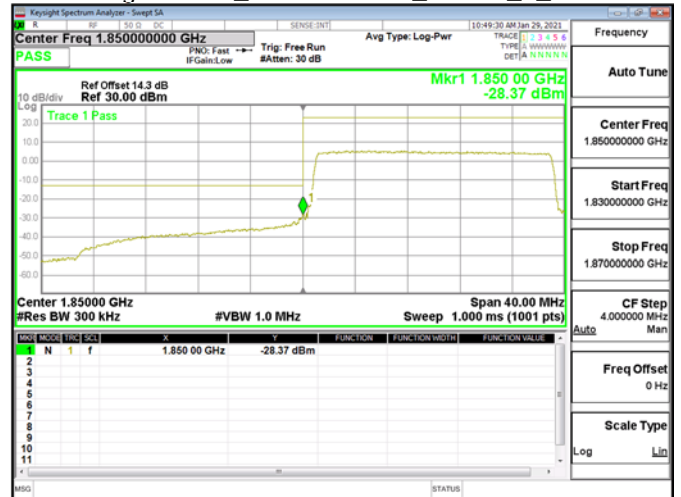
Band Edge\Band2_20MHz\QPSK_RB1_99_CH19100



Band Edge\Band2_15MHz\QPSK_RB75_0_CH19125



Band Edge\Band2_20MHz\QPSK_RB100_0_CH18700



Band Edge\Band2_20MHz\QPSK_RB1_0_CH18700



Band Edge\Band2_20MHz\QPSK_RB100_0_CH19100



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Band Edge\Band4_1.4MHz\QPSK_RB1_0_CH19957



Band Edge\Band4_1.4MHz\QPSK_RB6_0_CH20393



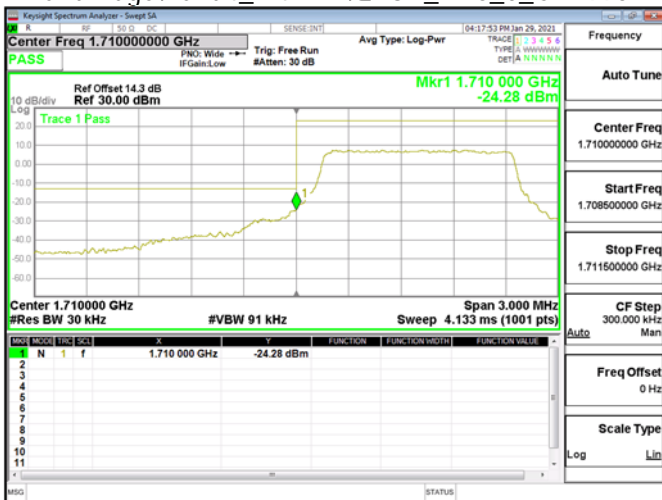
Band Edge\Band4_1.4MHz\QPSK_RB1_5_CH20393



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

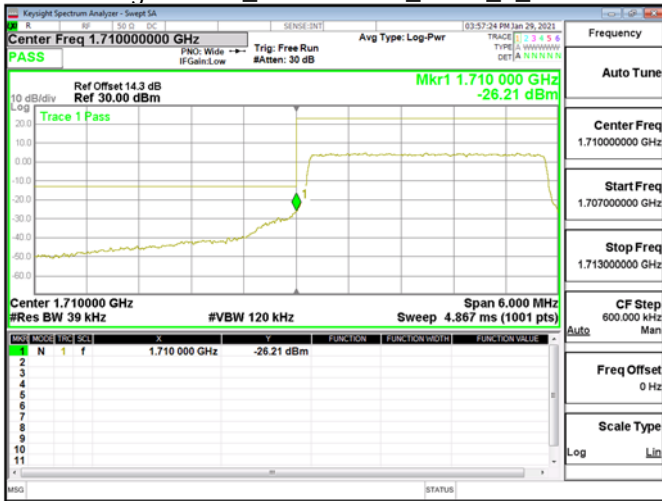


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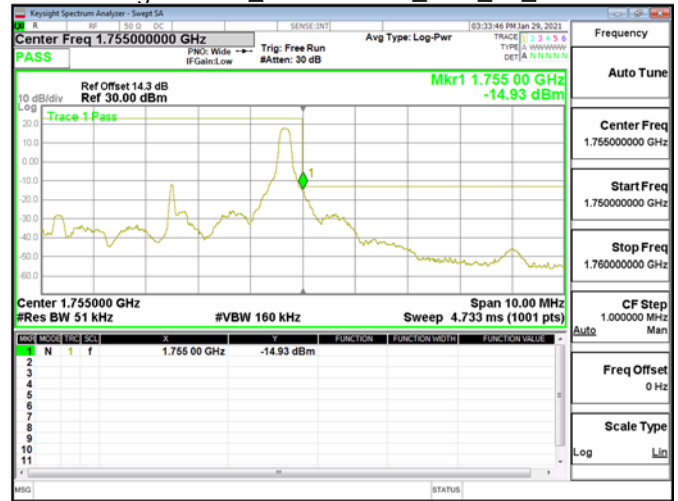
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Band Edge\Band4_3MHz\QPSK_RB15_0_CH19965



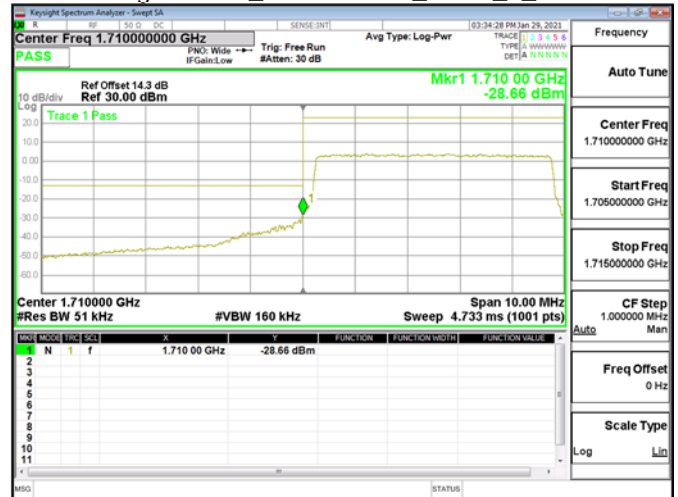
Band Edge\Band4_5MHz\QPSK_RB1_24_CH20375



Band Edge\Band4_3MHz\QPSK_RB15_0_CH20385



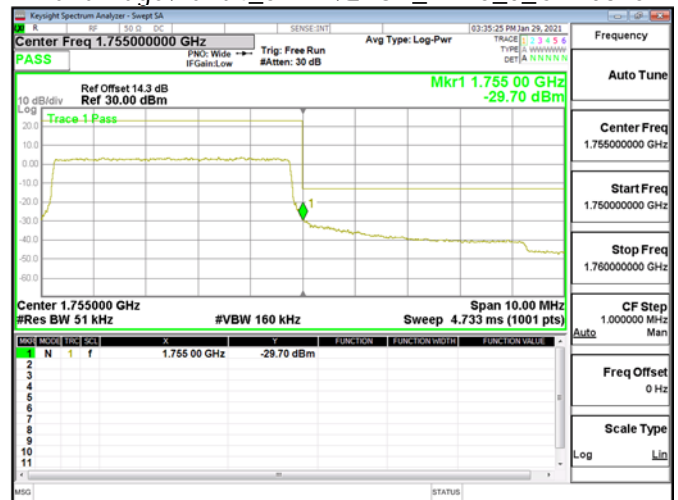
Band Edge\Band4_5MHz\QPSK_RB25_0_CH19975



Band Edge\Band4_5MHz\QPSK_RB1_0_CH19975



Band Edge\Band4_5MHz\QPSK_RB25_0_CH20375



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