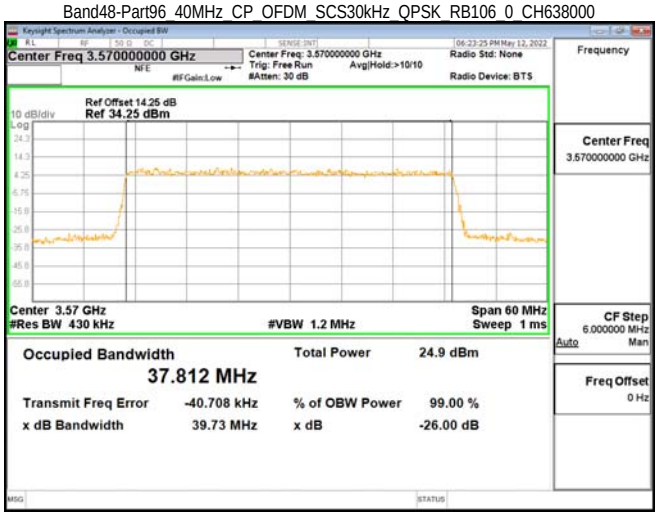
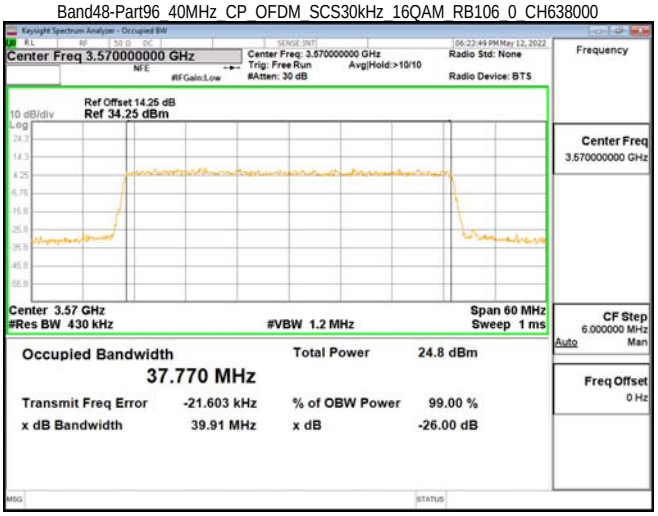
Band48-Part96_40MHz_CP_OFDM_SCS30kHz_QPSK_RB106_0_CH638000



Band48-Part96_40MHz_CP_OFDM_SCS30kHz_16QAM_RB106_0_CH638000



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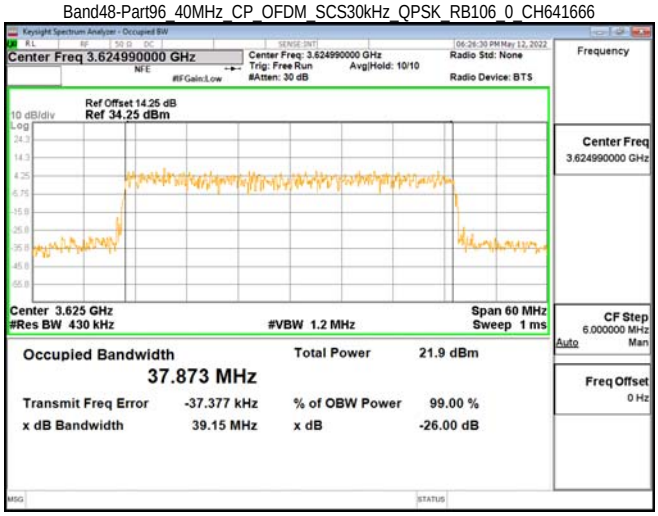

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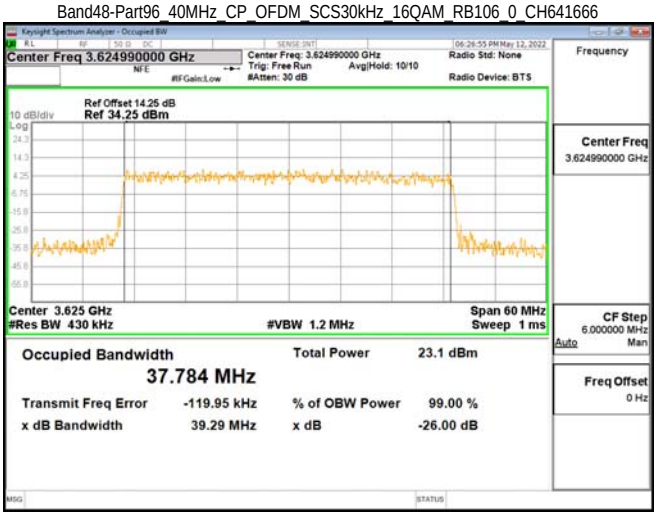

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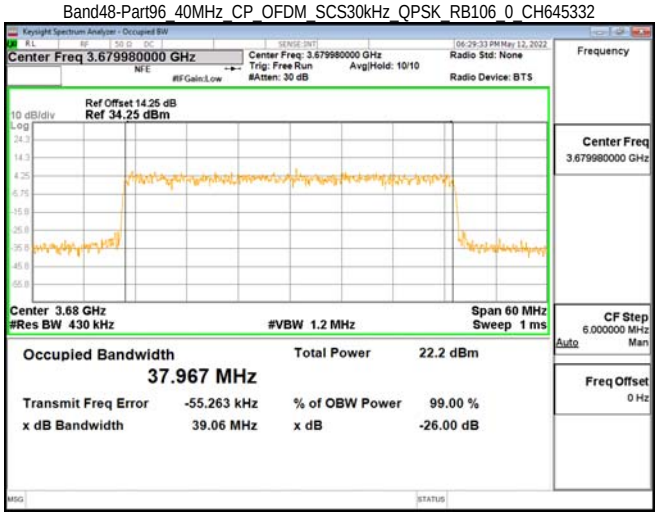

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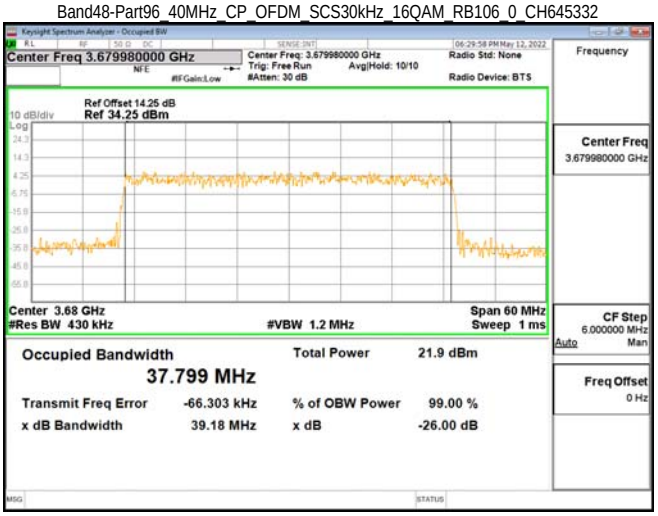

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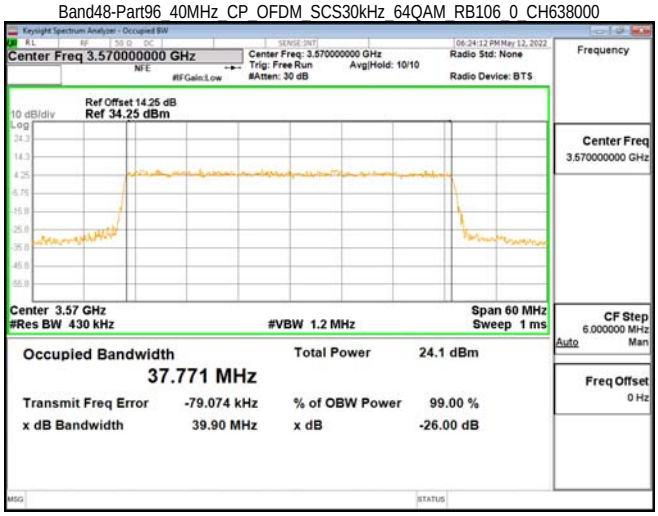
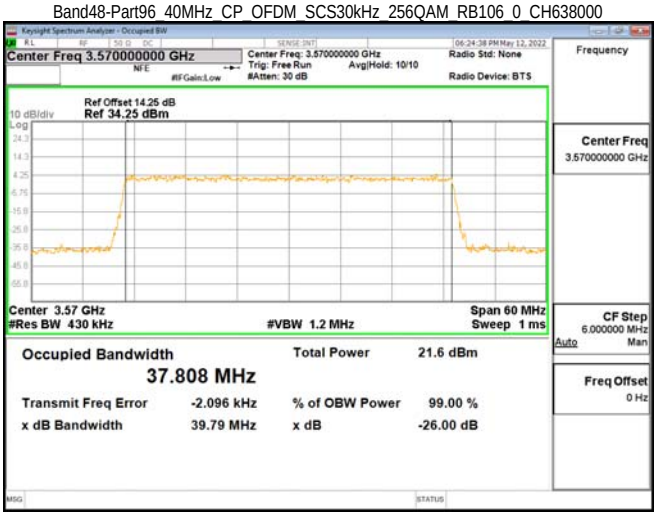
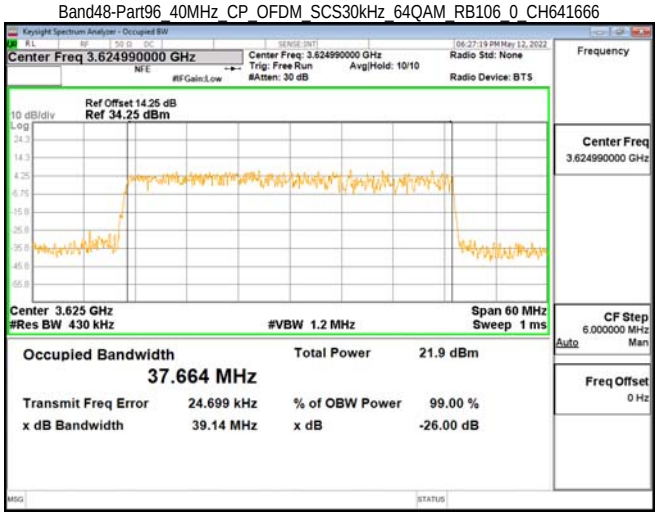
Band48-Part96_40MHz_CP_OFDM_SCS30kHz_64QAM_RB106_0_CH638000



Band48-Part96_40MHz_CP_OFDM_SCS30kHz_256QAM_RB106_0_CH638000

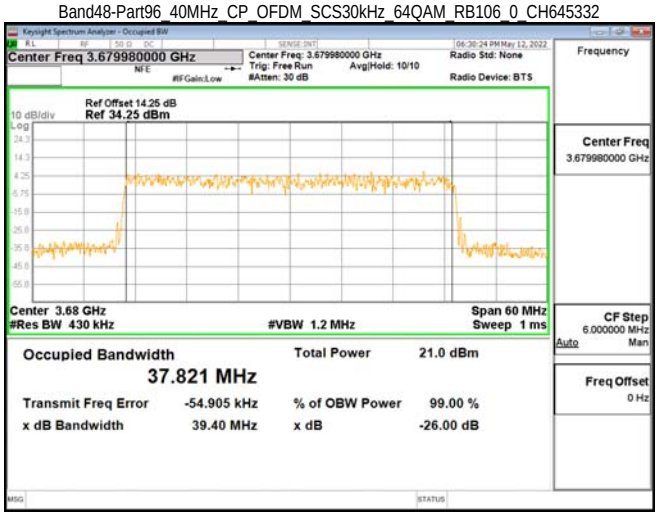


Band48-Part96_40MHz_CP_OFDM_SCS30kHz_64QAM_RB106_0_CH641666



Band48-Part96_40MHz_CP_OFDM_SCS30kHz_256QAM_RB106_0_CH641666

Band48-Part96_40MHz_CP_OFDM_SCS30kHz_64QAM_RB106_0_CH645332



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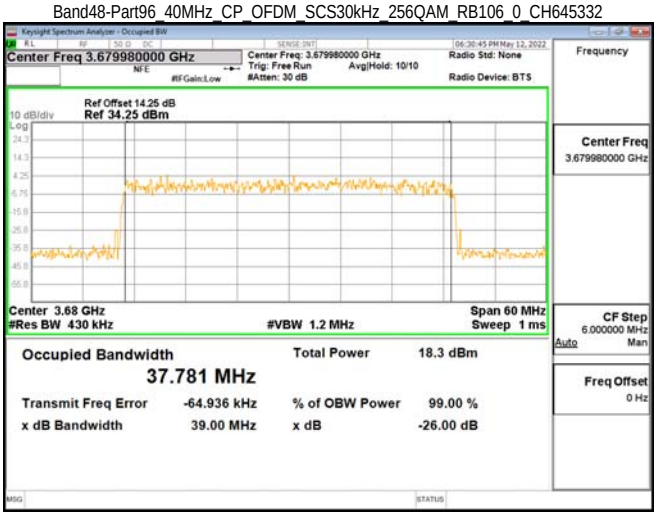

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10 OUT OF BAND EMISSION AT ANTENNA TERMINALS

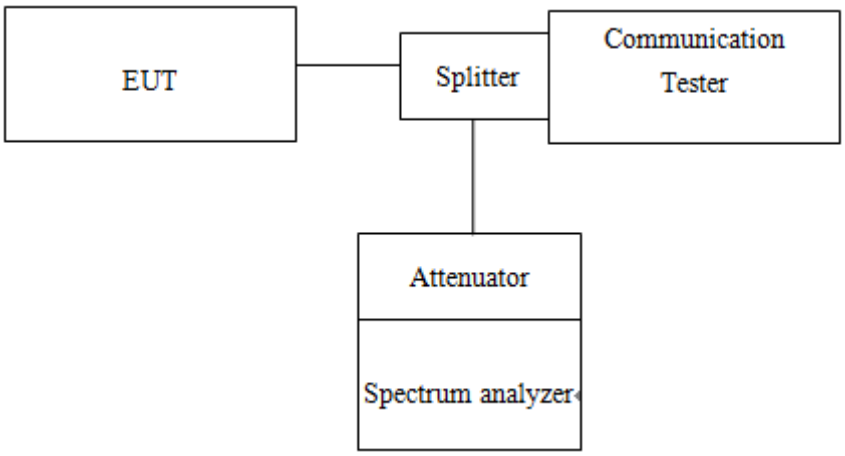
10.1 Standard Applicable

FCC Part 2.1051, Part 96.41 , C63.26 Clause 5.7.

For channel and frequency assignments made by the SAS to CBSDs, the conducted power of any CBSD emission outside the fundamental emission bandwidth as specified in paragraph (e)(3) of this section (whether the emission is inside or outside of the authorized band) shall not exceed −13 dBm/MHz within 0-10 megahertz above the upper SAS-assigned channel edge and within 0-10 megahertz below the lower SAS-assigned channel edge. At all frequencies greater than 10 megahertz above the upper SAS assigned channel edge and less than 10 MHz below the lower SAS assigned channel edge, the conducted power of any CBSD emission shall not exceed −25 dBm/MHz. The upper and lower SAS assigned channel edges are the upper and lower limits of any channel assigned to a CBSD by an SAS, or in the case of multiple contiguous channels, the upper and lower limits of the combined contiguous channels.

For CBSDs and End User Devices, the conducted power of emissions below 3540 MHz or above 3710 MHz shall not exceed −25 dBm/MHz, and the conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed −40dBm/MHz.

10.2 Test SET-UP



10.3 Measurement Procedure

10.3.1 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.

To connect Antenna Port of EUT to Spectrum.

Set RBW = 1MHz & VBW = 1MHz on Spectrum.

Allow trace to fully stabilize

Repeat above procedures until all default test channel measured were complete.

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10.3.2 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 ≥ 1% EBW.
3. Allow trace to fully stabilize
4. Repeat above procedures until all default test channel measured were complete.

10.4 Test Results:

Refer to next page for test plots.

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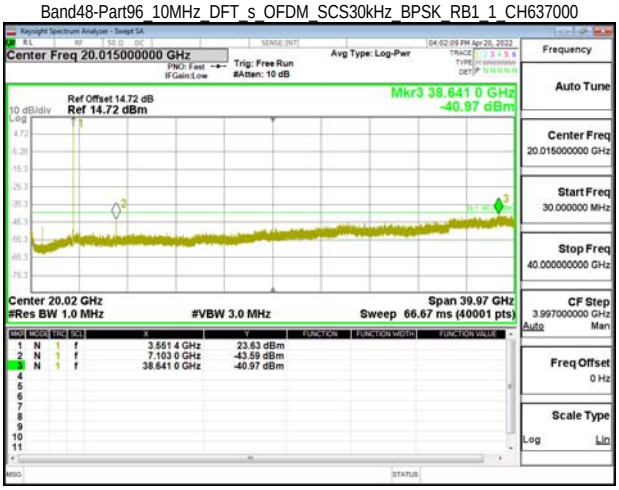
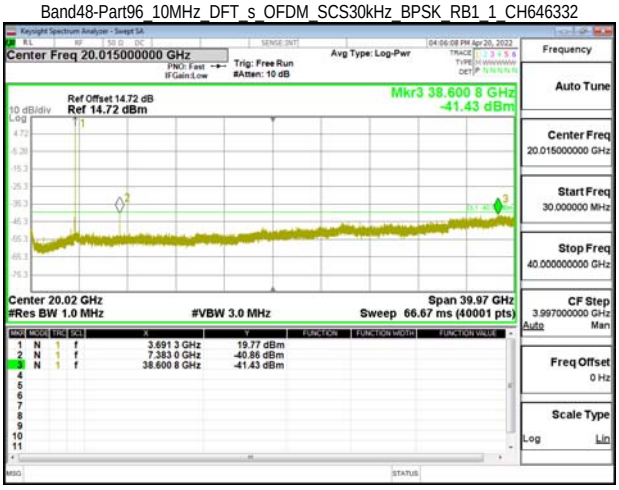
10.4.1 Unwanted Emission

Band48-Part96_10MHz_DFT_s_OFDM_SCS30kHz_BPSK_RB1_1_CH637000



Band48-Part96_10MHz_DFT_s_OFDM_SCS30kHz_BPSK_RB1_1_CH641666

Band48-Part96_10MHz_DFT_s_OFDM_SCS30kHz_BPSK_RB1_1_CH646332



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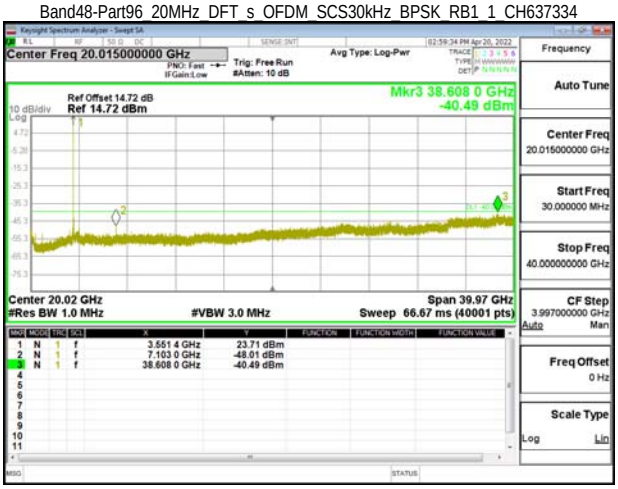

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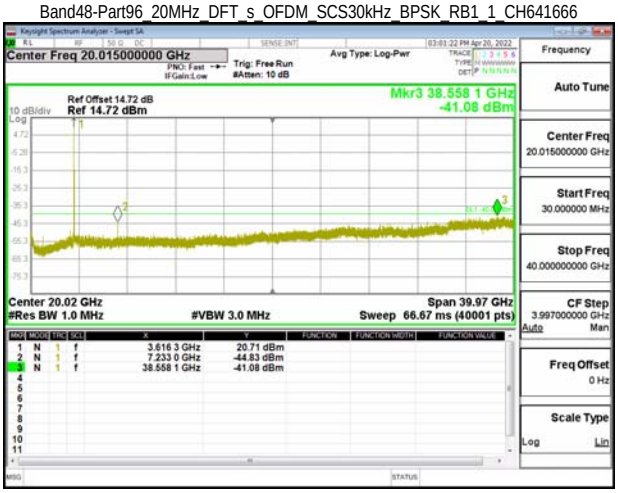
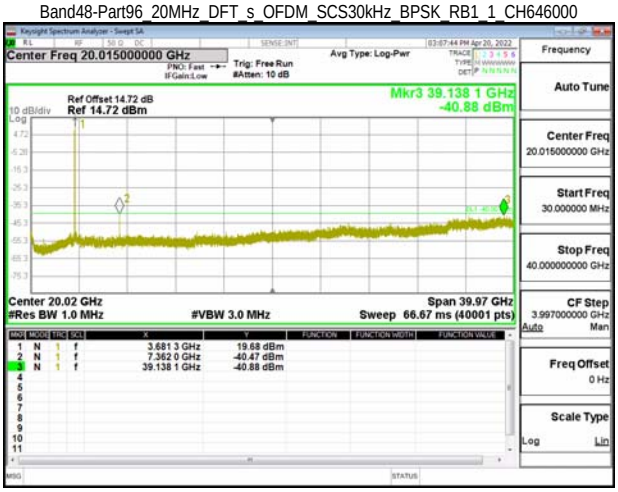


Band48-Part96_20MHz_DFT_s_OFDM_SCS30kHz_BPSK_RB1_1_CH646000



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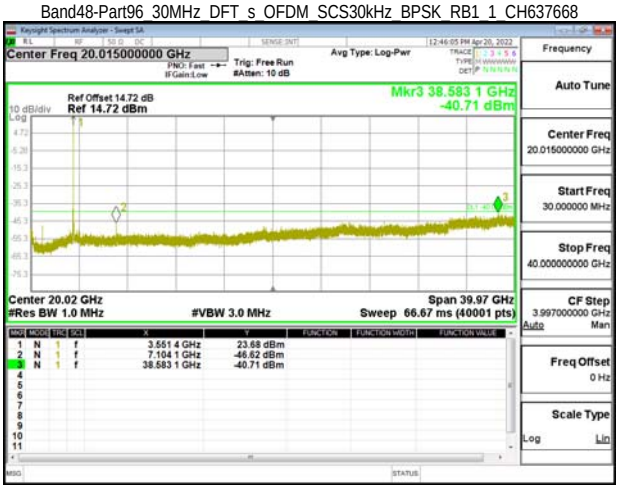
Band48-Part96_30MHz_DFT_s_OFDM_SCS30kHz_BPSK_RB1_1_CH637668



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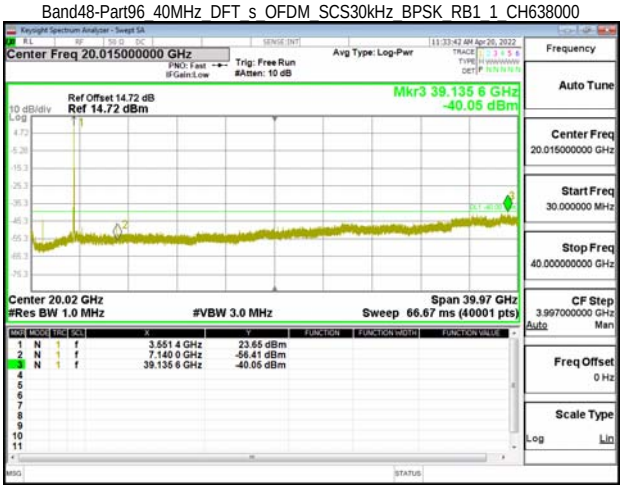

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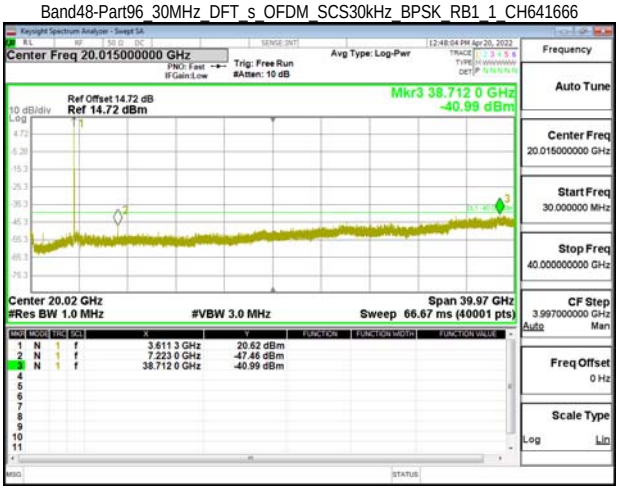
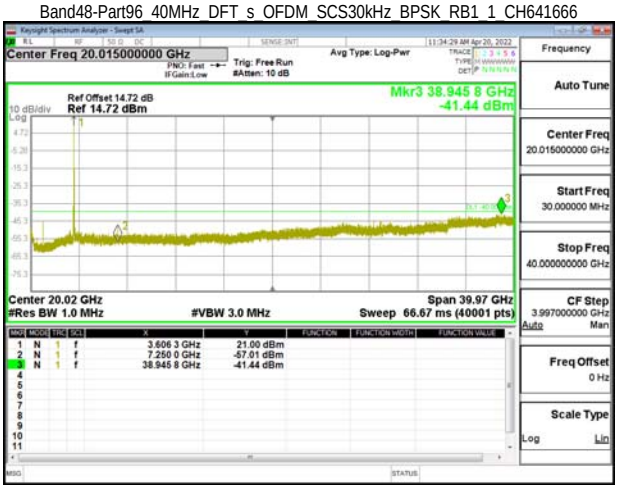


Band48-Part96_40MHz_DFT_s_OFDM_SCS30kHz_BPSK_RB1_1_CH641666



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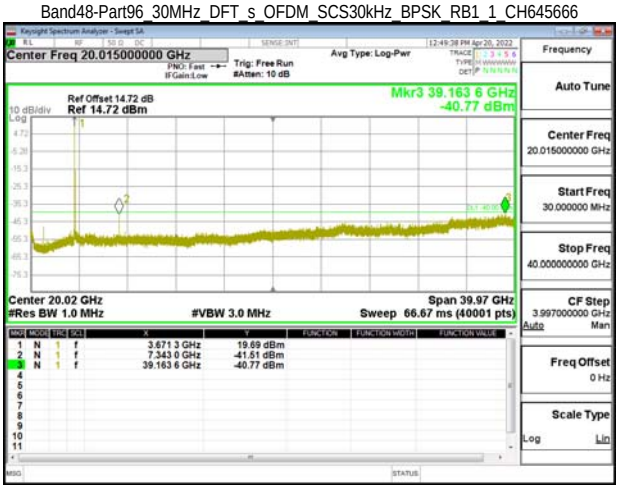
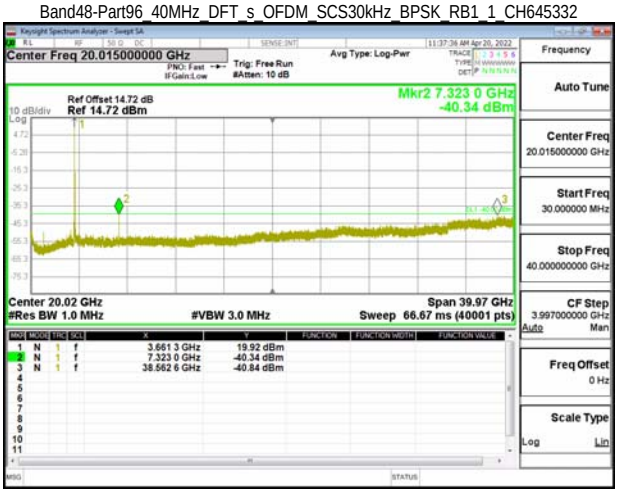


Band48-Part96_40MHz_DFT_s_OFDM_SCS30kHz_BPSK_RB1_1_CH645332



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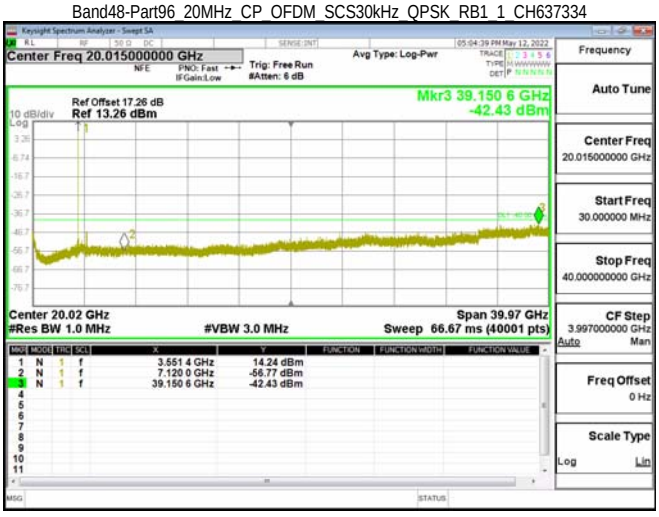
MIMO Band48-Part96_10MHz_CP_OFDM_SCS30kHz_QPSK_RB1_1_CH637000

Band48-Part96_20MHz_CP_OFDM_SCS30kHz_QPSK_RB1_1_CH637334



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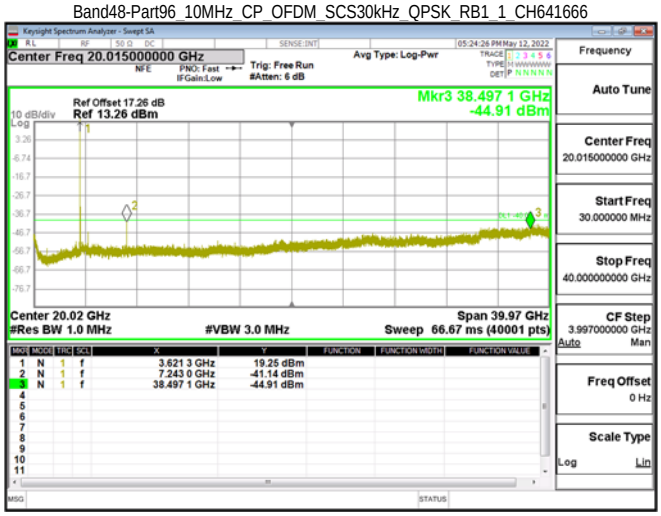

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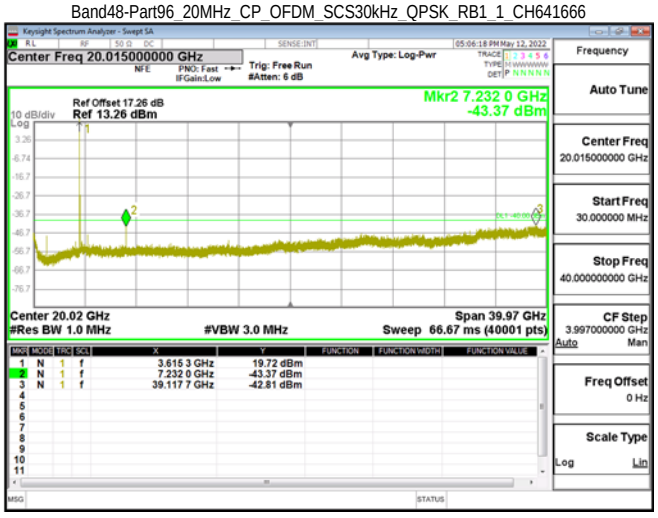
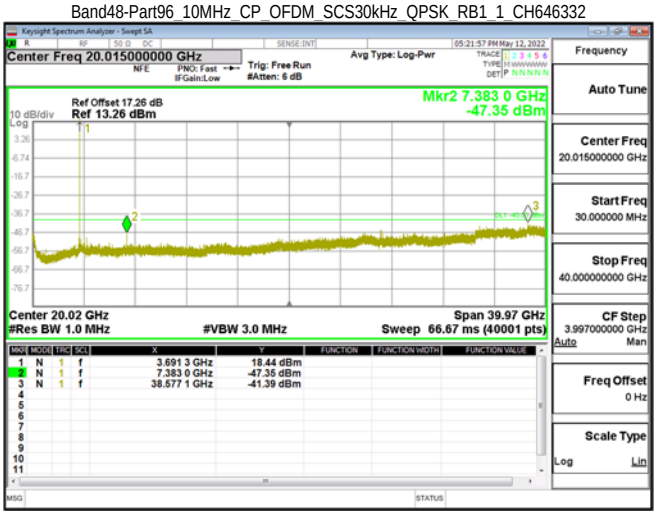
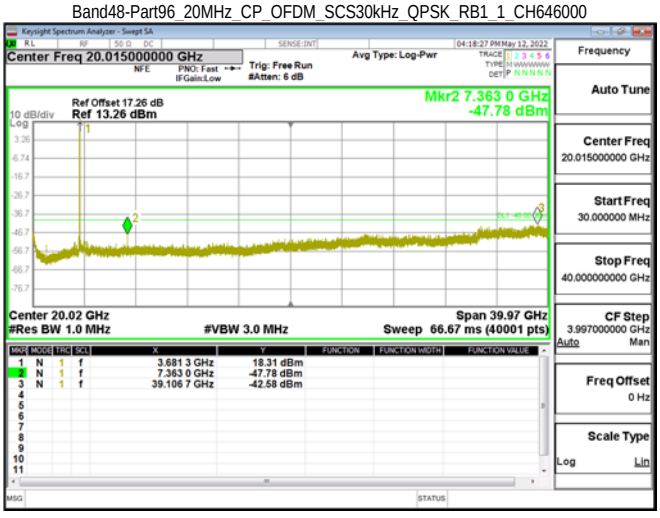


Band48-Part96_10MHz_CP_OFDM_SCS30kHz_QPSK_RB1_1_CH646332



Band48-Part96_20MHz_CP_OFDM_SCS30kHz_QPSK_RB1_1_CH646000



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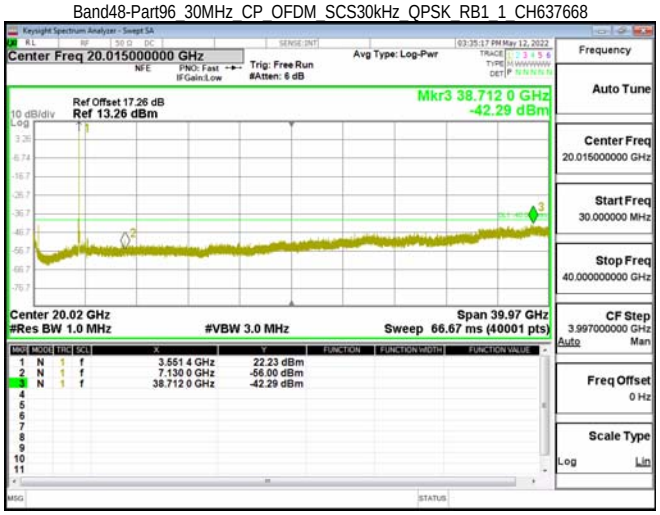
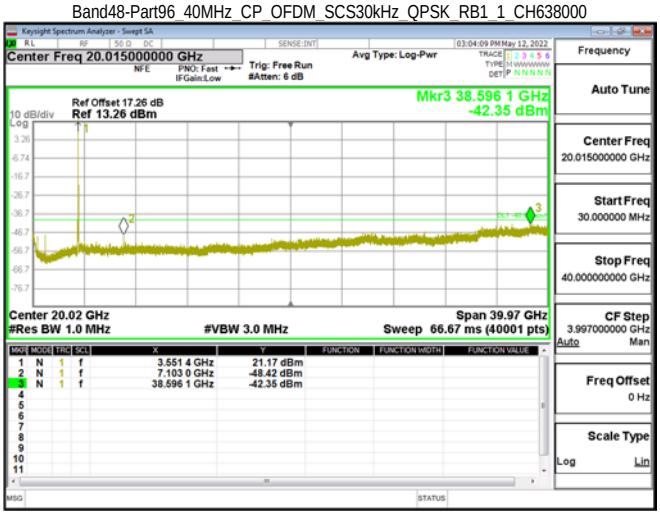
Band48-Part96_30MHz_CP_OFDM_SCS30kHz_QPSK_RB1_1_CH637668



Band48-Part96_40MHz_CP_OFDM_SCS30kHz_QPSK_RB1_1_CH638000



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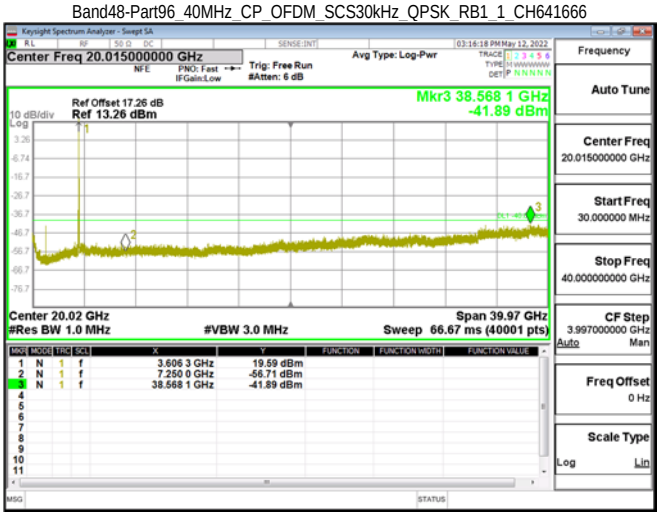
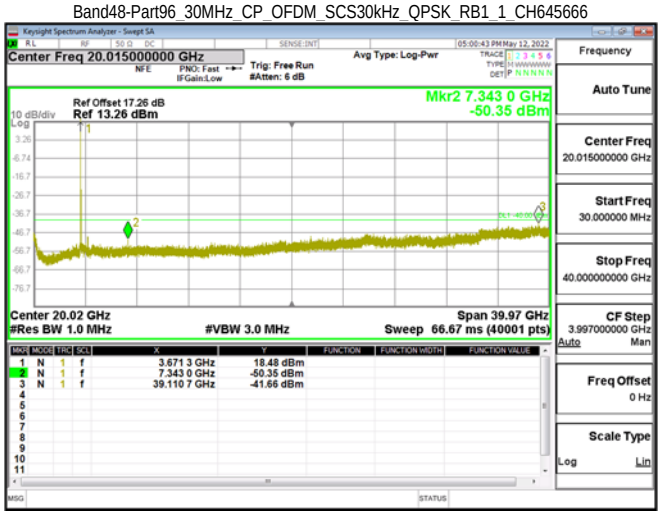


Band48-Part96_30MHz_CP_OFDM_SCS30kHz_QPSK_RB1_1_CH645666



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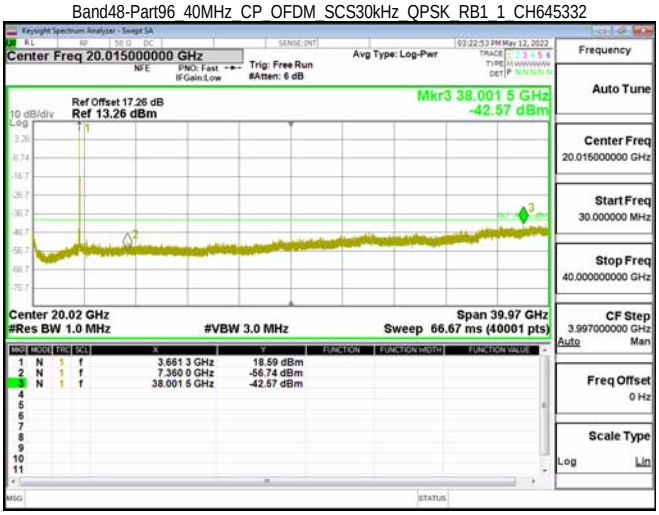

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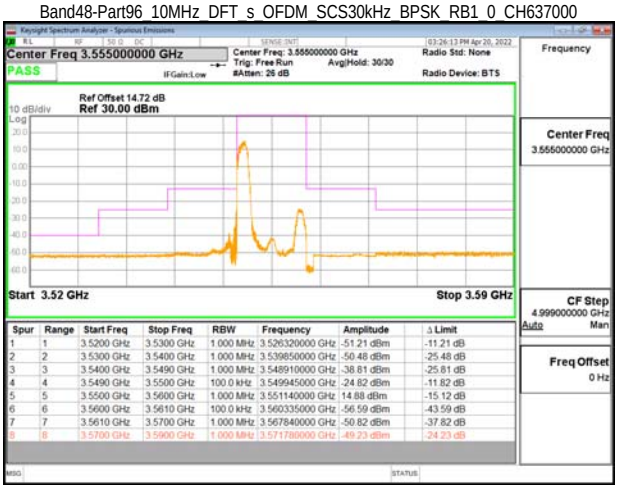
10.4.2 Band Edge:

Band48-Part96_10MHz_DFT_s_OFDM_SCS30kHz_BPSK_RB1_0_CH637000



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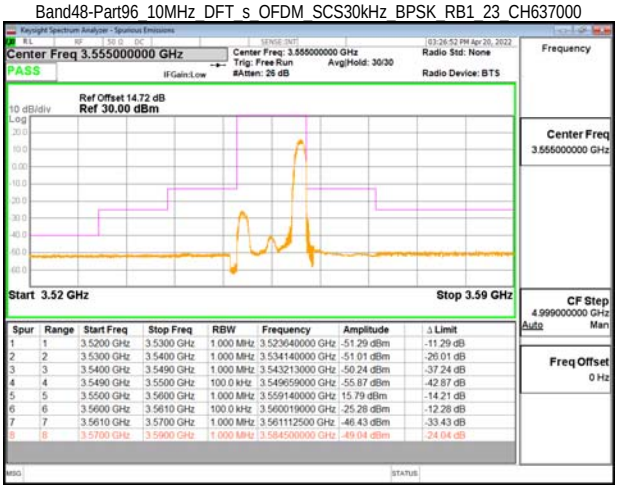

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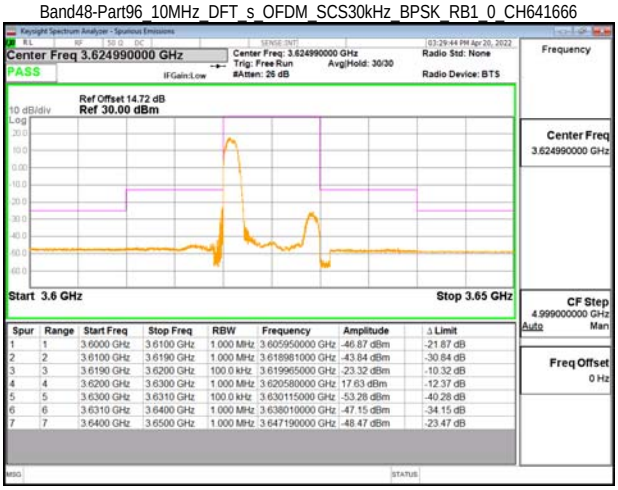

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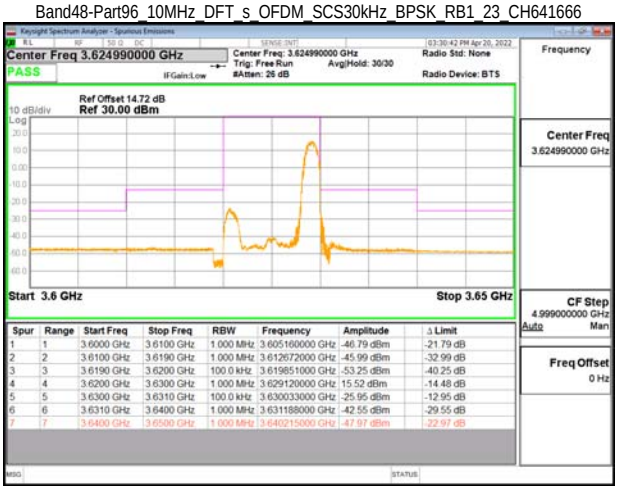

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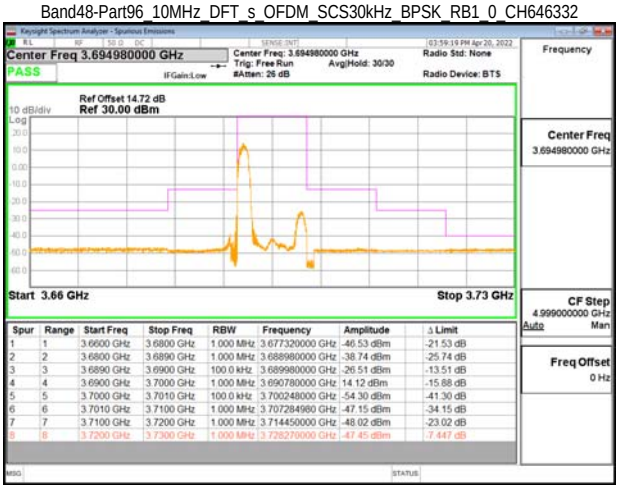

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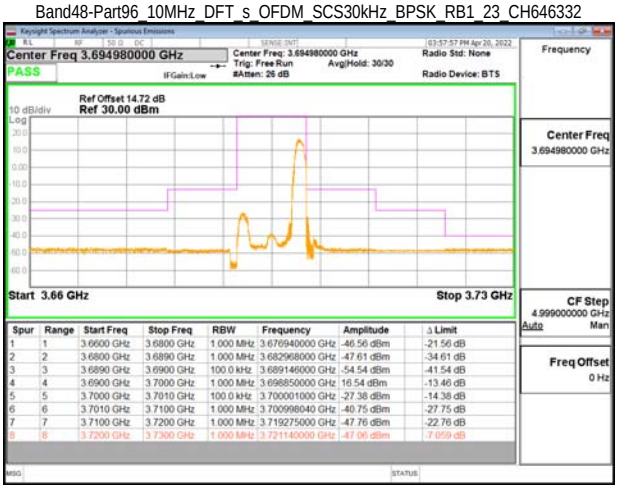

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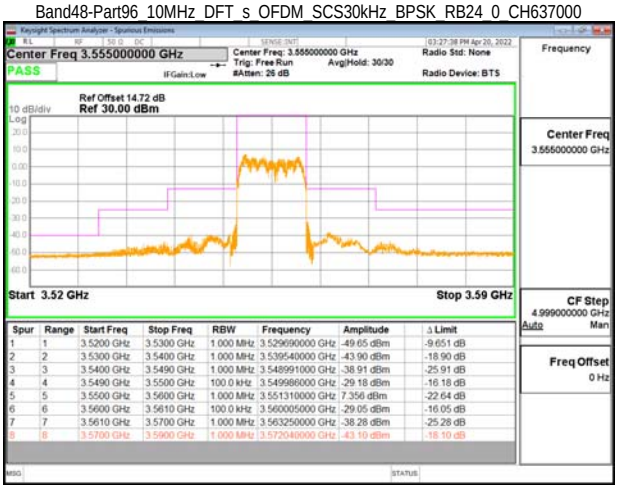
Band48-Part96_10MHz_DFT_s_OFDM_SCS30kHz_BPSK_RB24_0_CH637000



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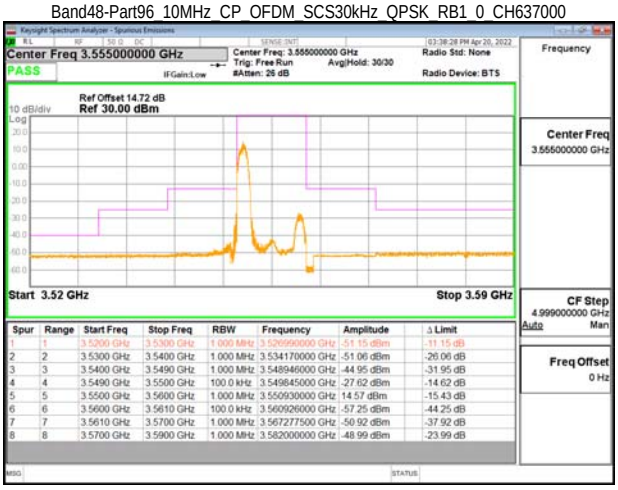

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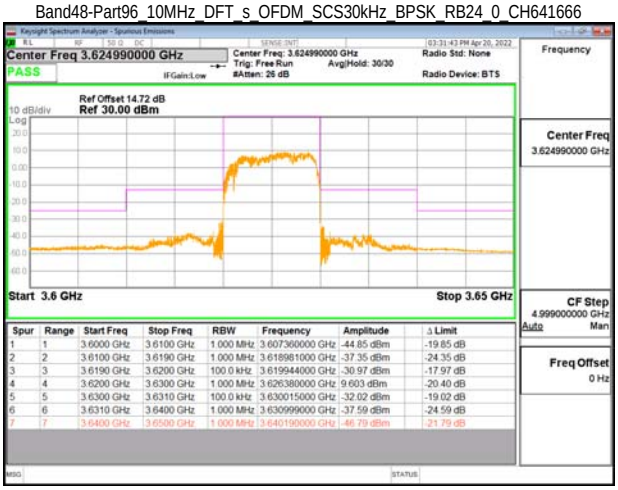

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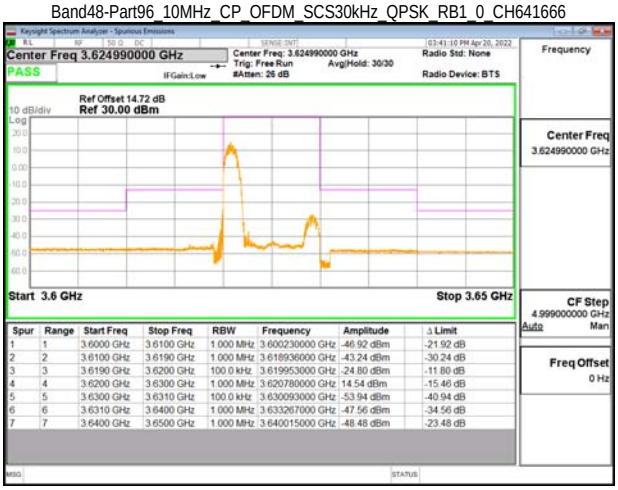

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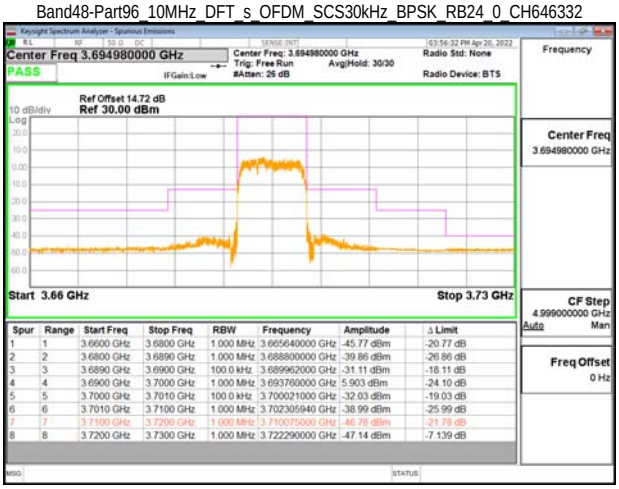

Band48-Part96_10MHz_CP_OFDM_SCS30kHz_QPSK_RB1_0_CH646332

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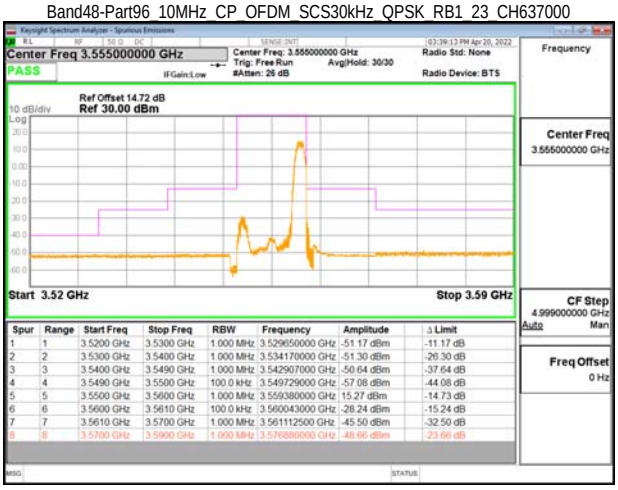
Band48-Part96_10MHz_CP_OFDM_SCS30kHz_QPSK_RB1_23_CH637000



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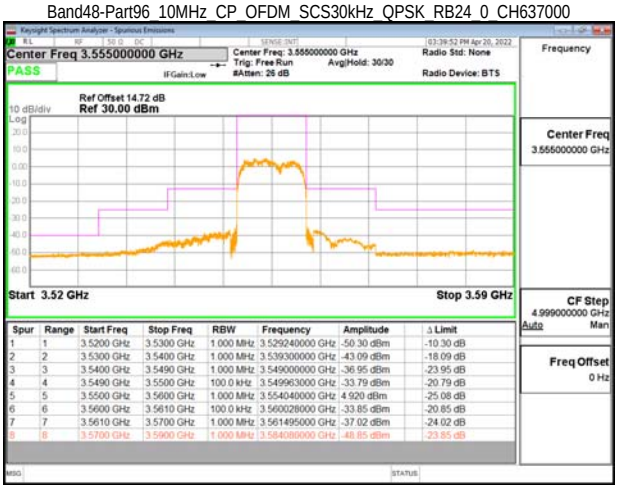

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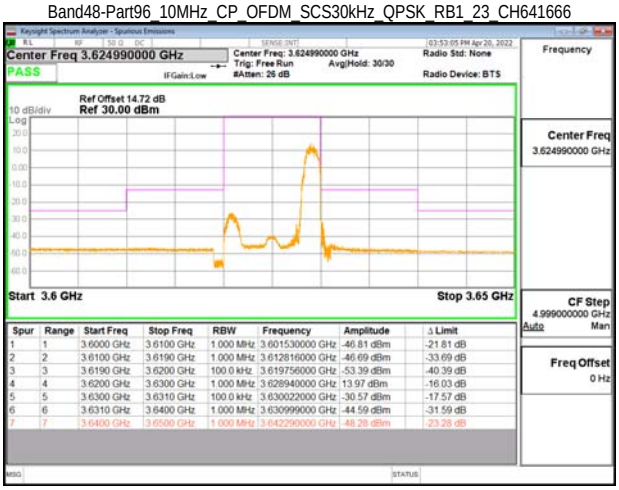

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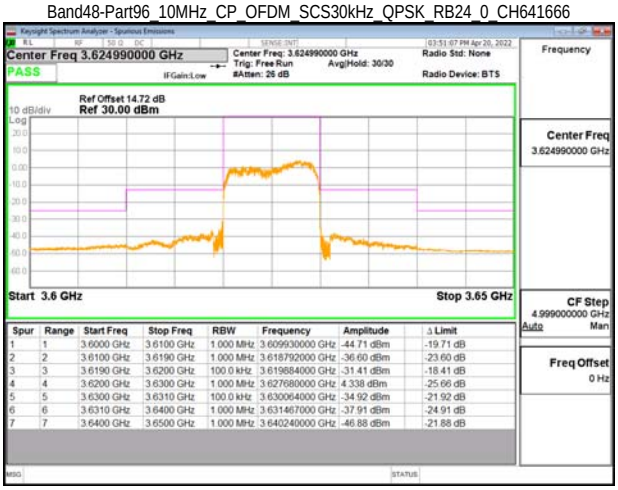

Band48-Part96_10MHz_CP_OFDM_SCS30kHz_QPSK_RB1_23_CH646332

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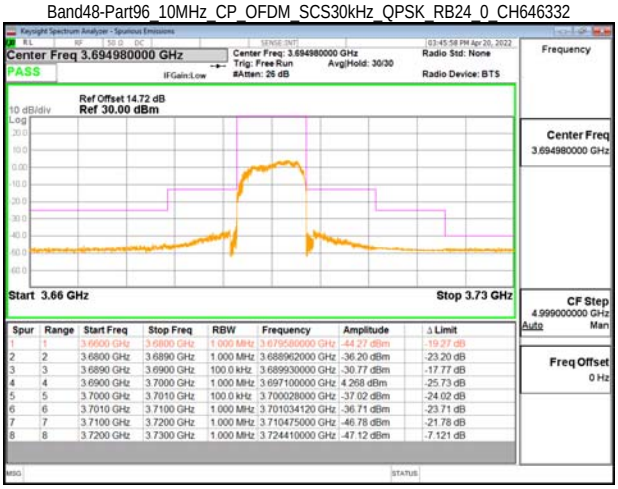

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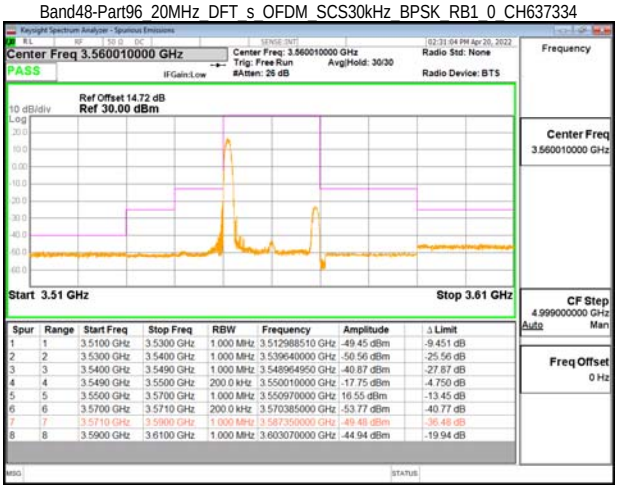
Band48-Part96_20MHz_DFT_s_OFDM_SCS30kHz_BPSK_RB1_0_CH637334



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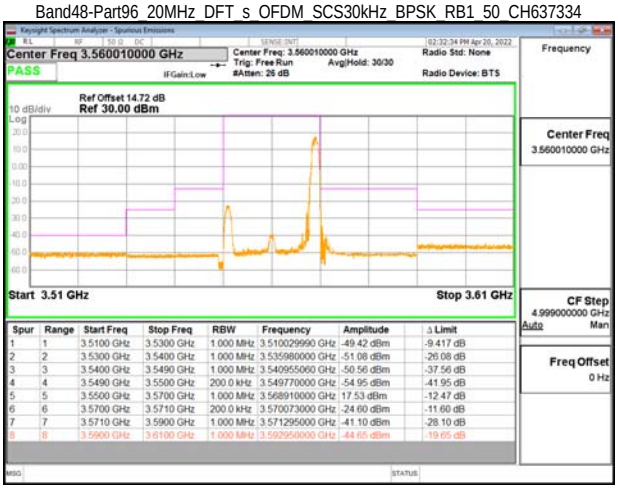

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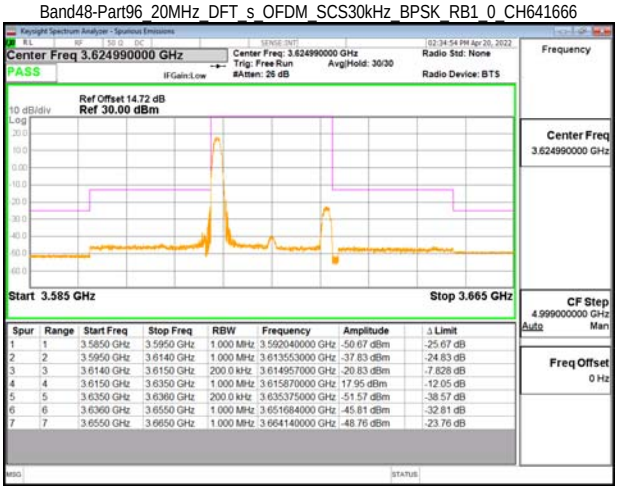

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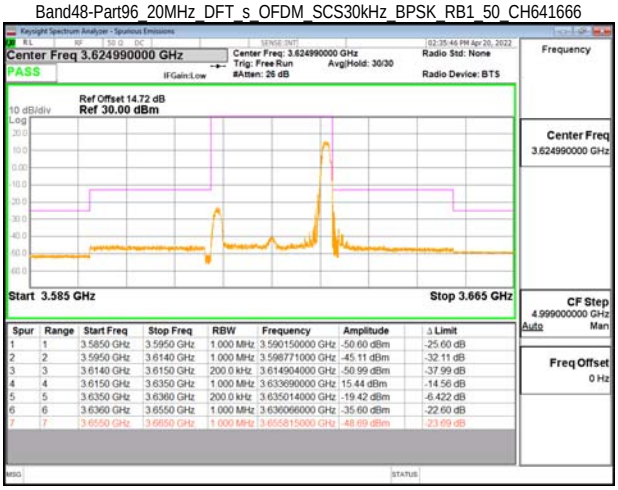

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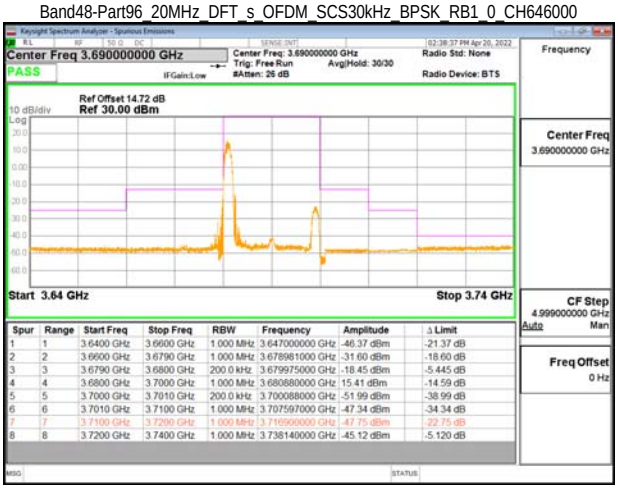

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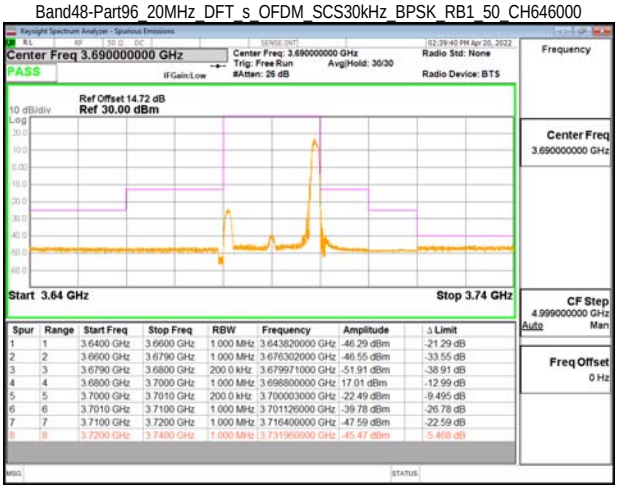

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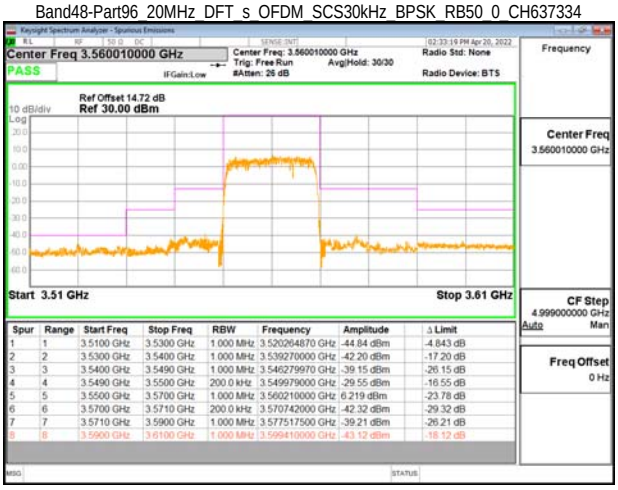
Band48-Part96_20MHz_DFT_s_OFDM_SCS30kHz_BPSK_RB50_0_CH637334



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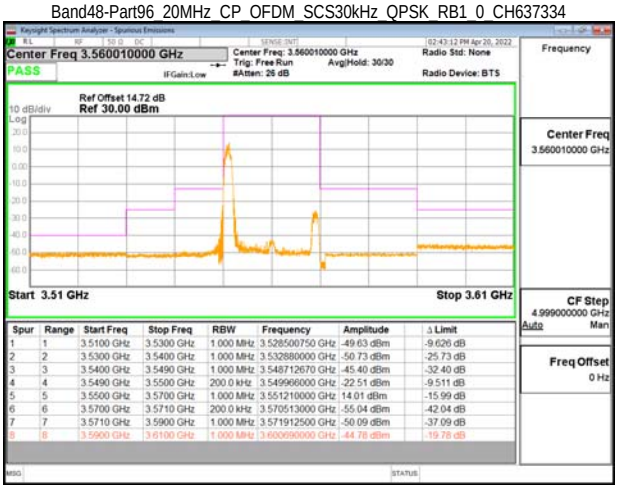

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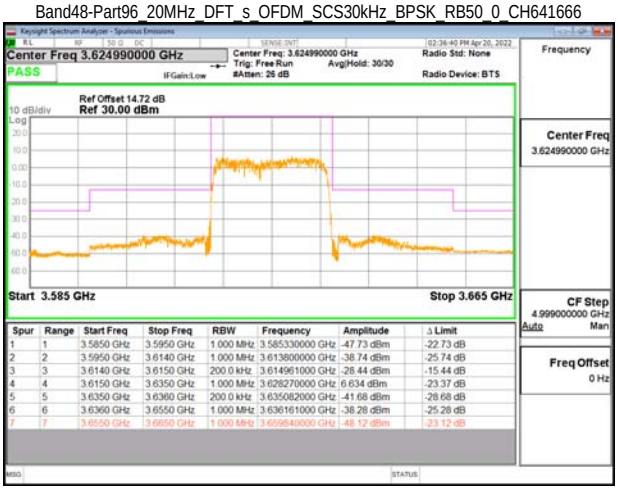

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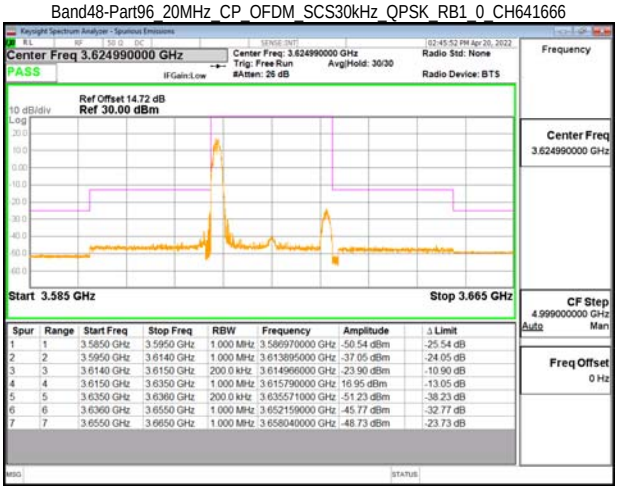

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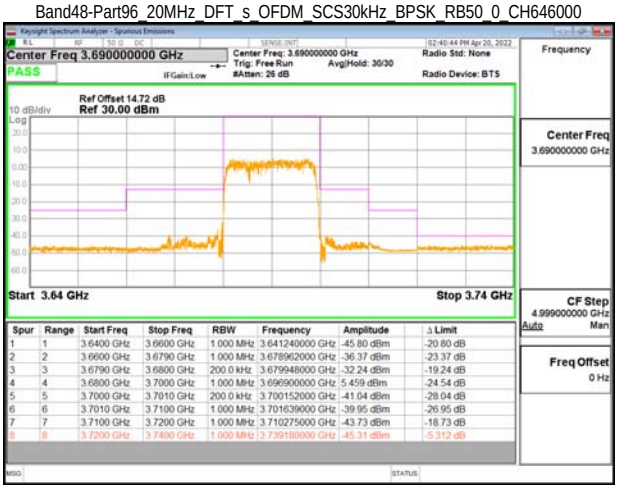
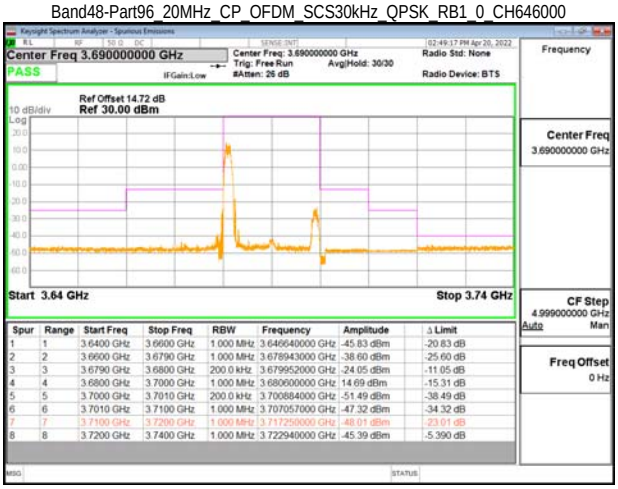


Band48-Part96_20MHz_CP_OFDM_SCS30kHz_QPSK_RB1_0_CH646000



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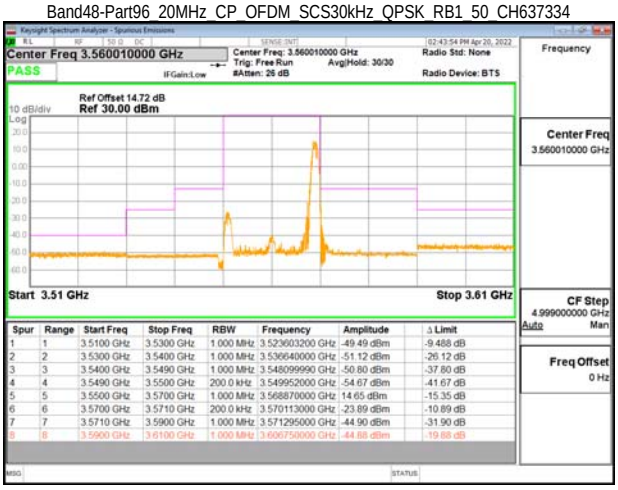
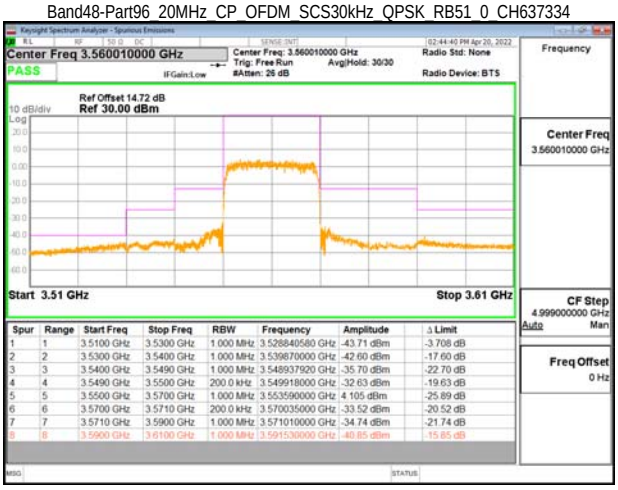
Band48-Part96_20MHz_CP_OFDM_SCS30kHz_QPSK_RB1_50_CH637334



Band48-Part96_20MHz_CP_OFDM_SCS30kHz_QPSK_RB51_0_CH637334



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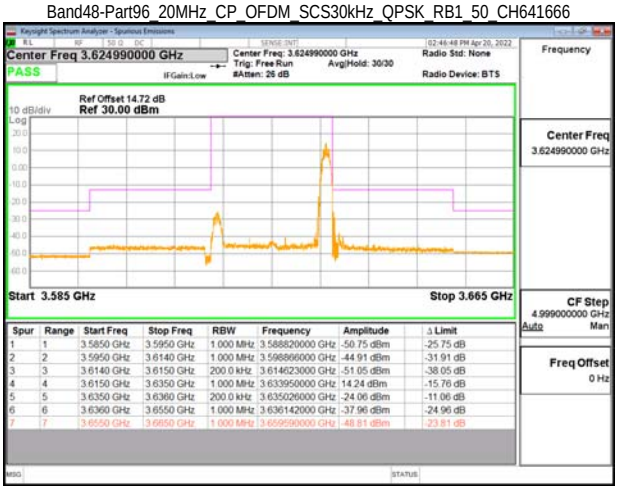

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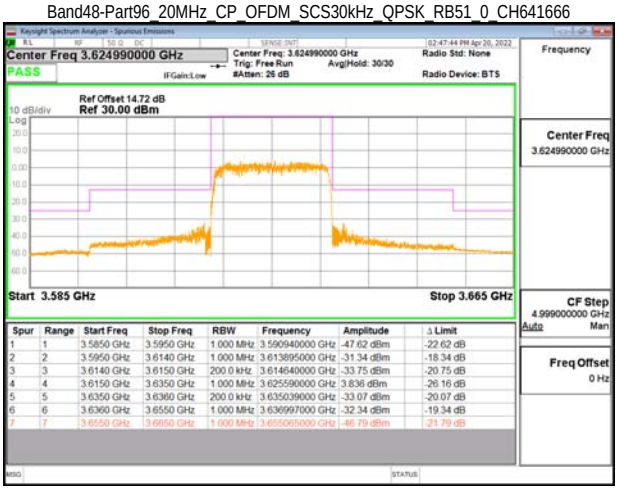

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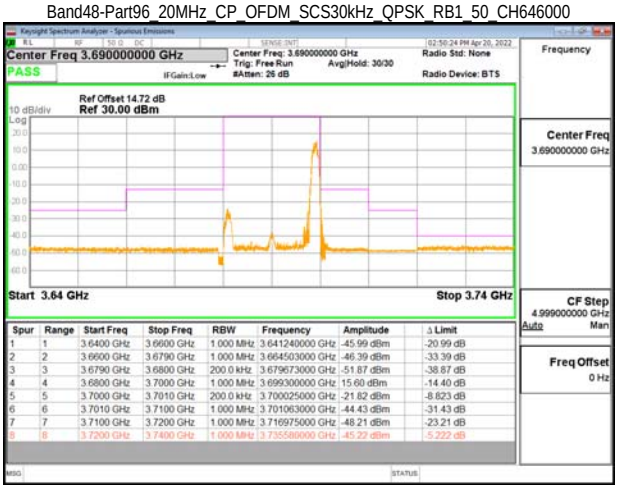

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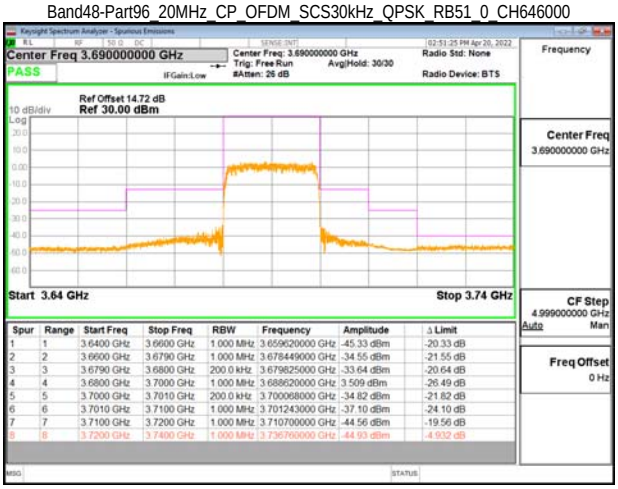

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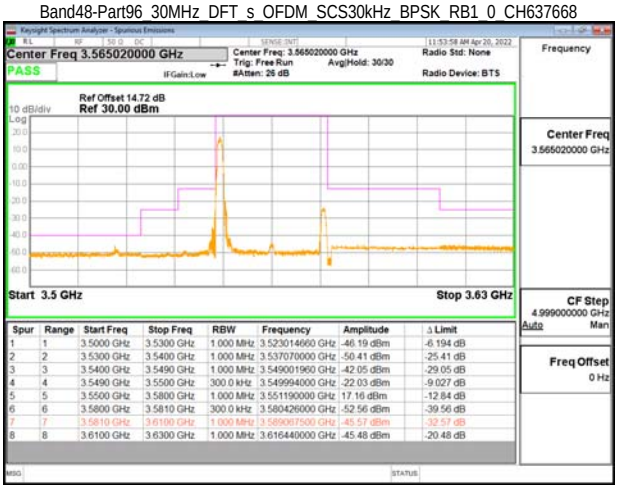
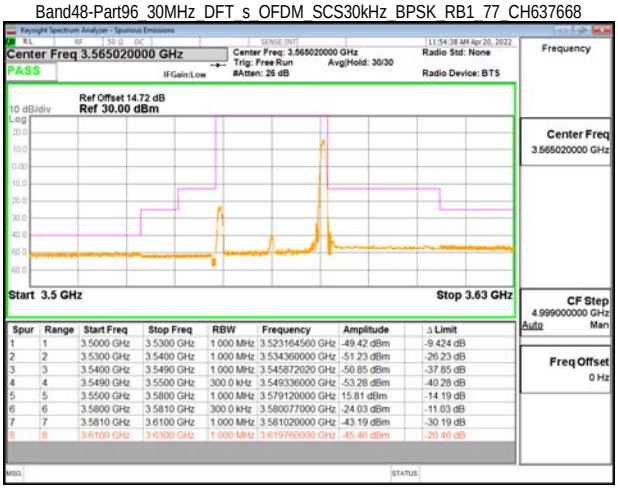
Band48-Part96_30MHz_DFT_s_OFDM_SCS30kHz_BPSK_RB1_0_CH637668



Band48-Part96_30MHz_DFT_s_OFDM_SCS30kHz_BPSK_RB1_77_CH637668



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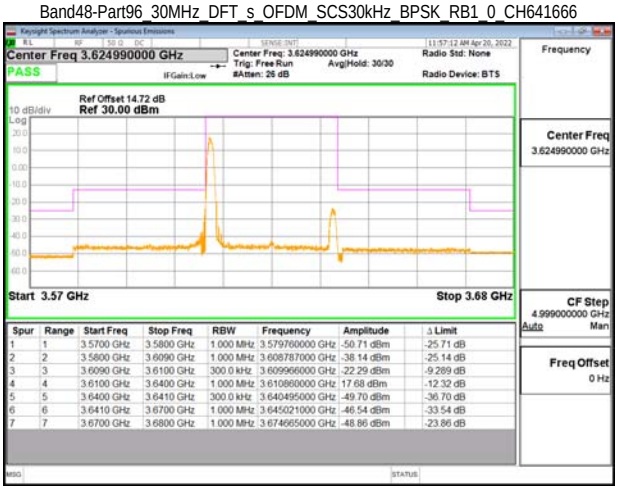

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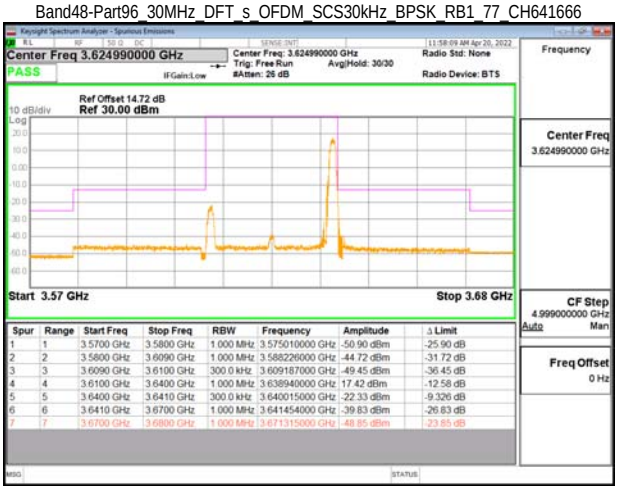

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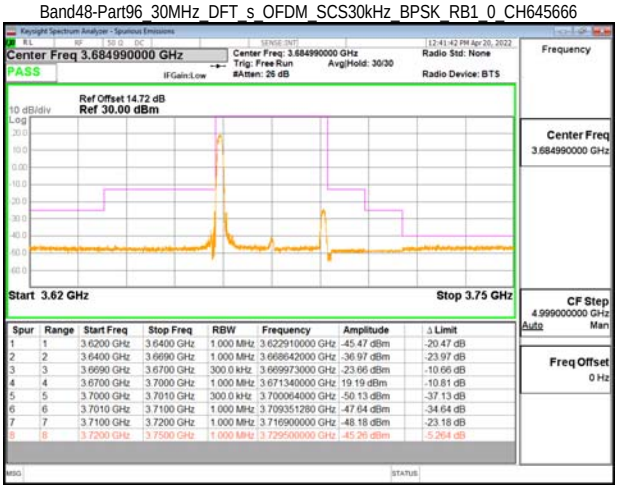

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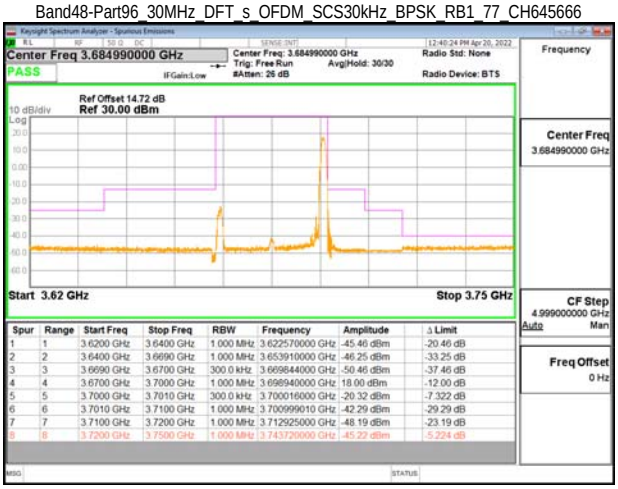

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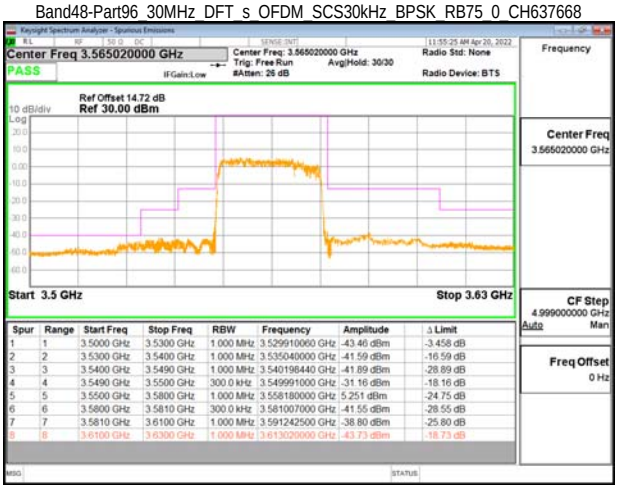
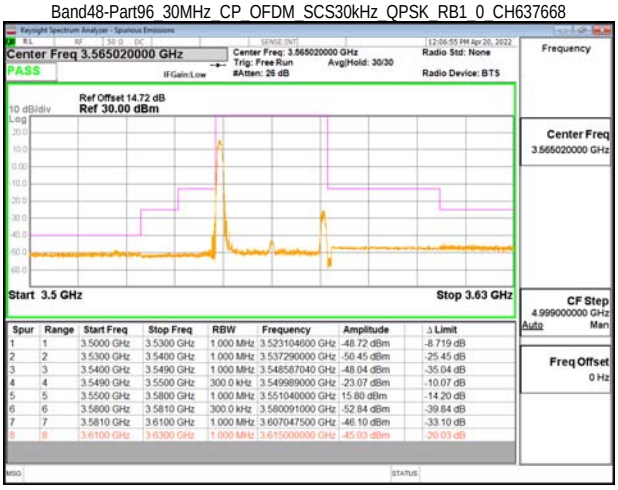
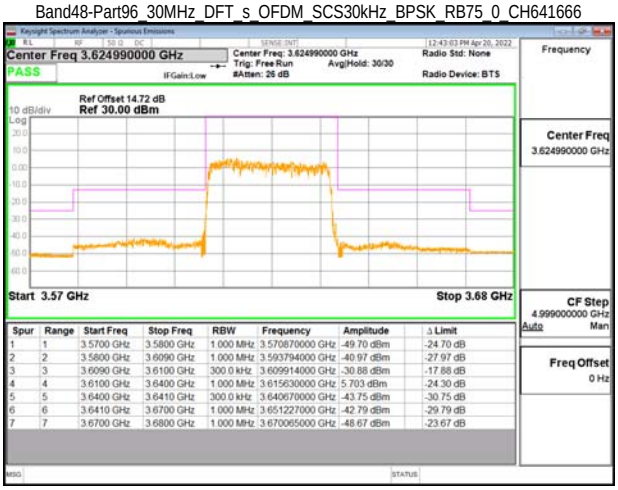
Band48-Part96_30MHz_DFT_s_OFDM_SCS30kHz_BPSK_RB75_0_CH637668



Band48-Part96_30MHz_CP_OFDM_SCS30kHz_QPSK_RB1_0_CH637668



Band48-Part96_30MHz_DFT_s_OFDM_SCS30kHz_BPSK_RB75_0_CH641666



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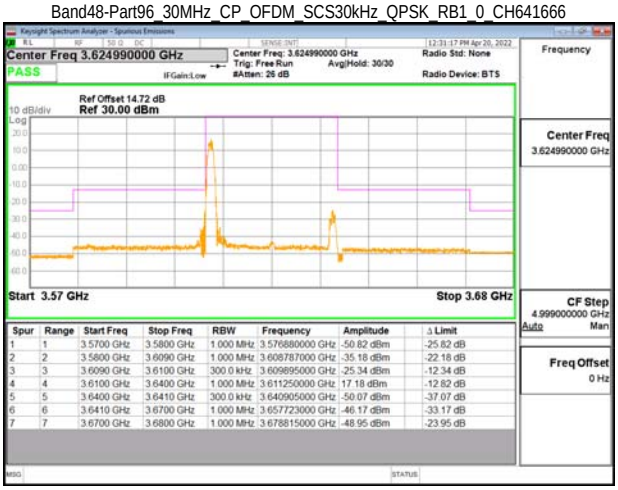
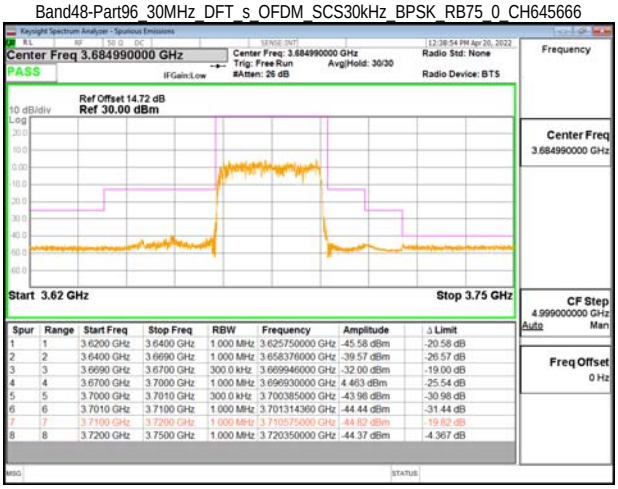


Band48-Part96_30MHz_DFT_s_OFDM_SCS30kHz_BPSK_RB75_0_CH645666



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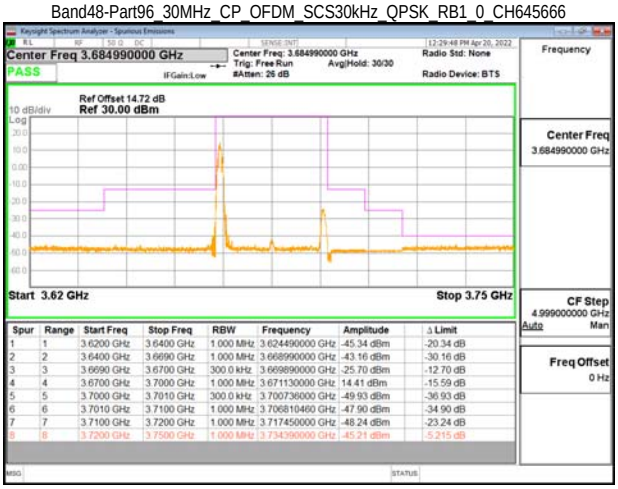

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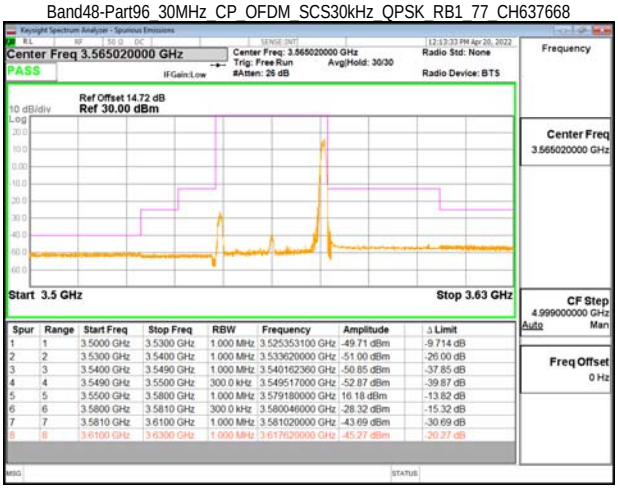
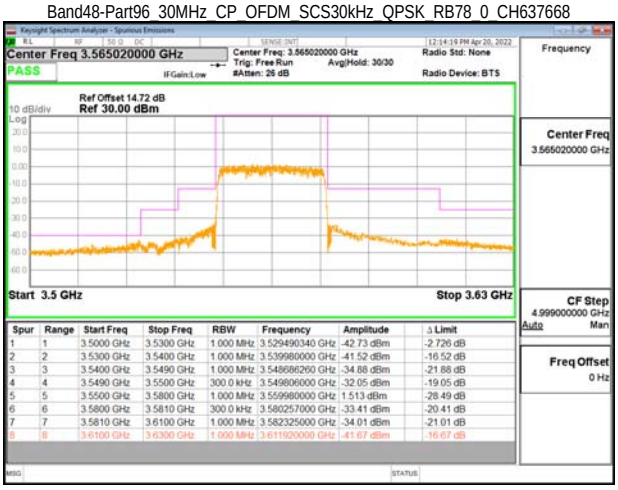
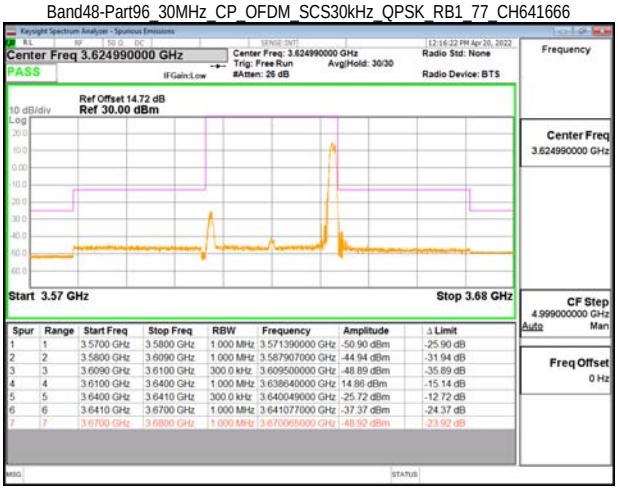
Band48-Part96_30MHz_CP_OFDM_SCS30kHz_QPSK_RB1_77_CH637668



Band48-Part96_30MHz_CP_OFDM_SCS30kHz_QPSK_RB78_0_CH637668



Band48-Part96_30MHz_CP_OFDM_SCS30kHz_QPSK_RB1_77_CH641666



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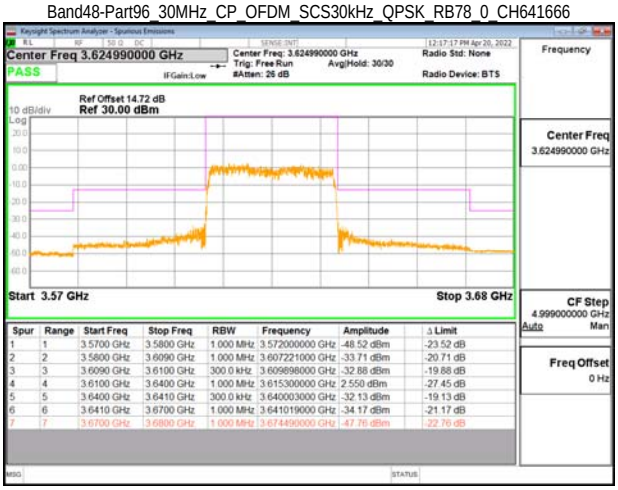

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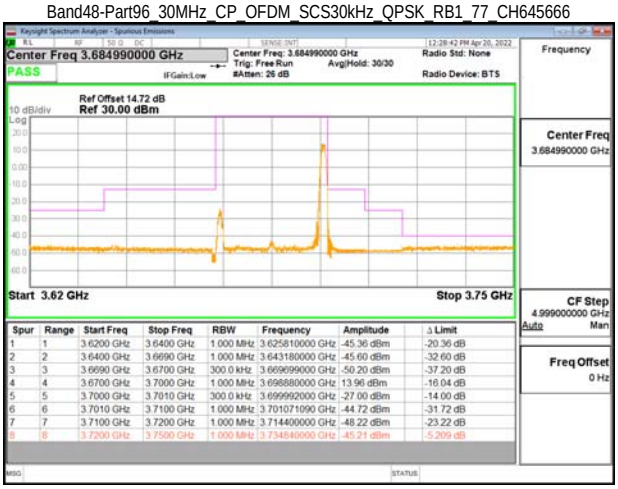

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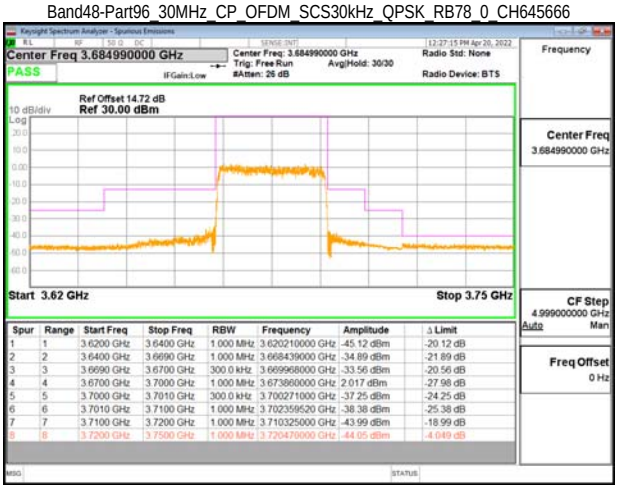

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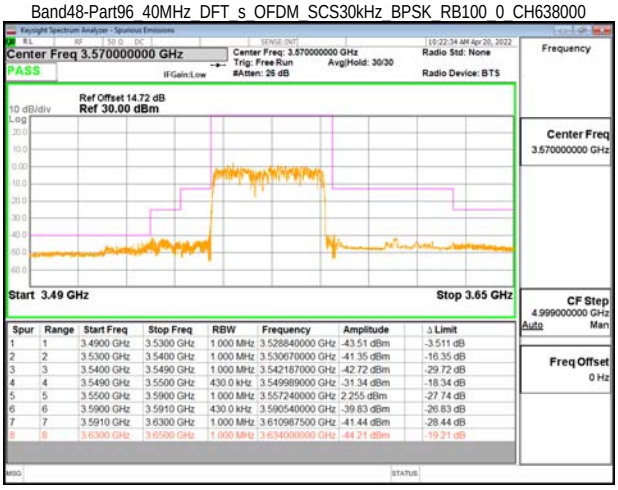
Band48-Part96_40MHz_DFT_s_OFDM_SCS30kHz_BPSK_RB100_0_CH638000



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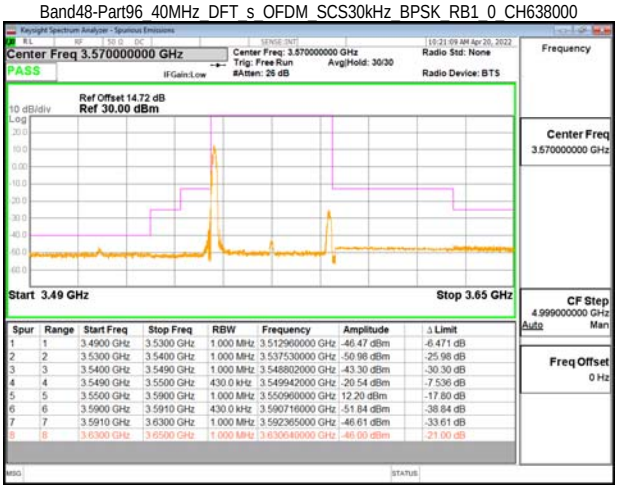

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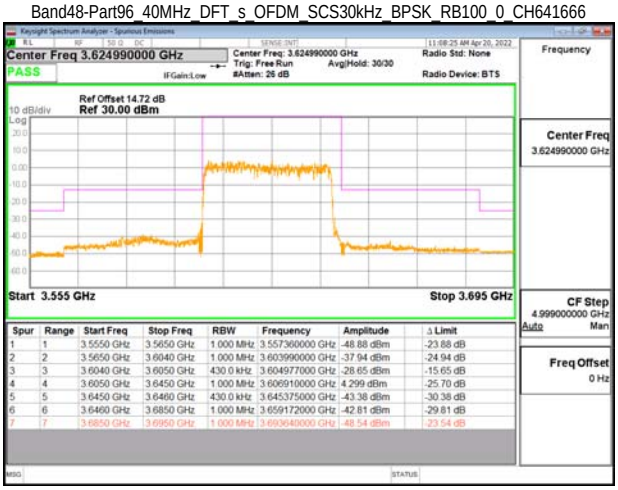

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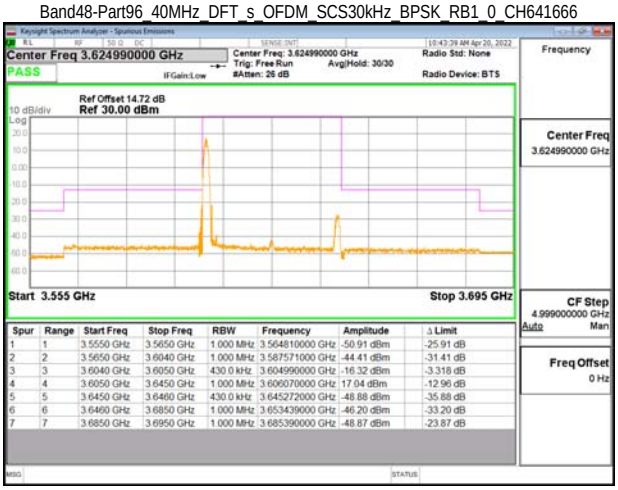
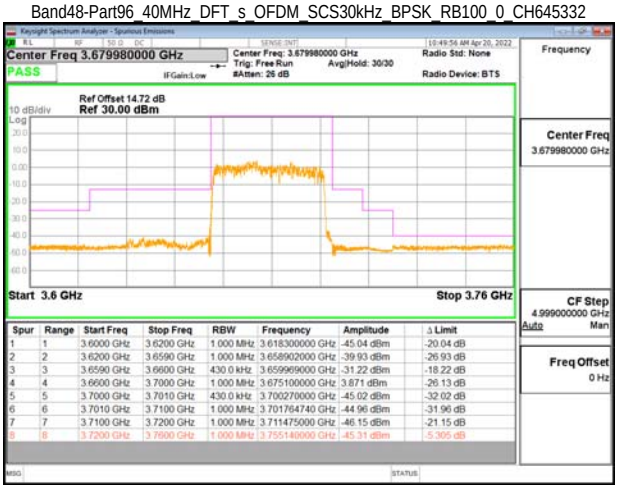
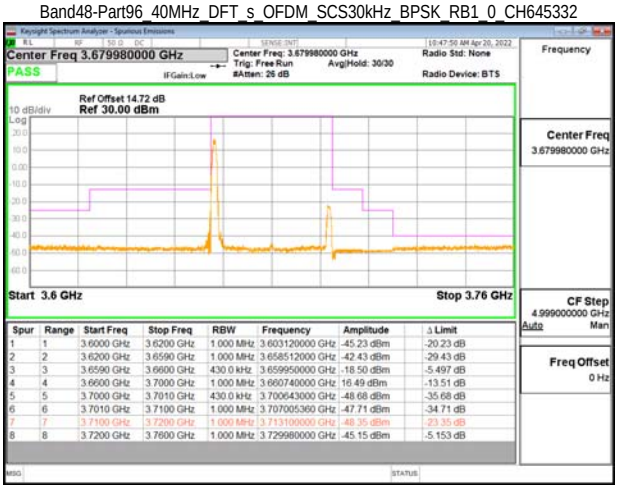


Band48-Part96_40MHz_DFT_s_OFDM_SCS30kHz_BPSK_RB100_0_CH645332



Band48-Part96_40MHz_DFT_s_OFDM_SCS30kHz_BPSK_RB1_0_CH645332



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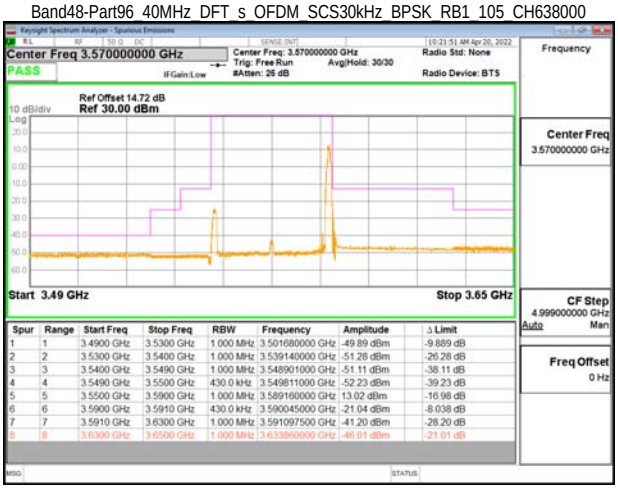
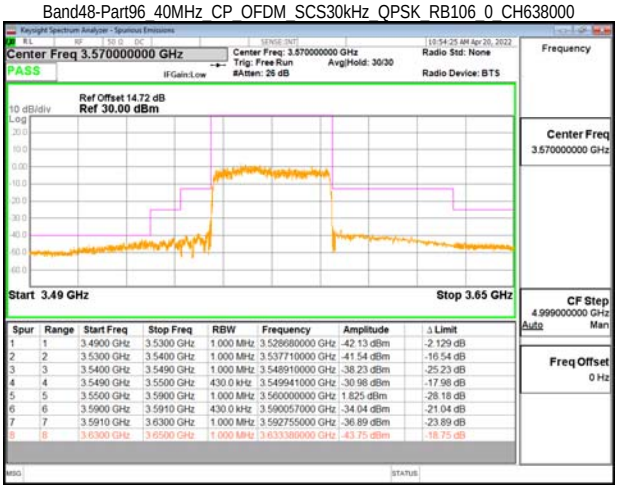
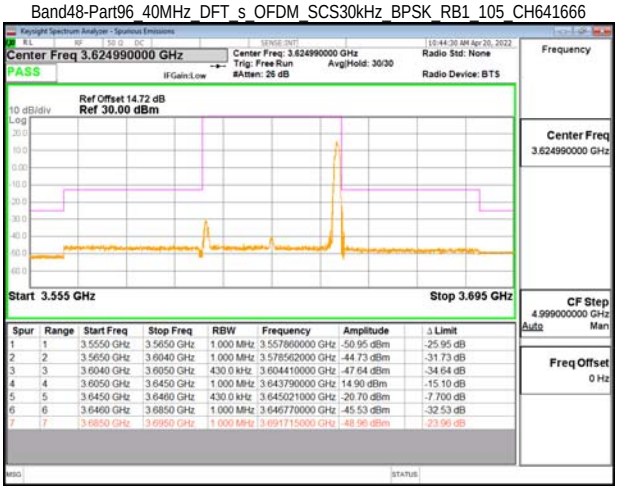
Band48-Part96_40MHz_DFT_s_OFDM_SCS30kHz_BPSK_RB1_105_CH638000



Band48-Part96_40MHz_CP_OFDM_SCS30kHz_QPSK_RB106_0_CH638000



Band48-Part96_40MHz_DFT_s_OFDM_SCS30kHz_BPSK_RB1_105_CH641666



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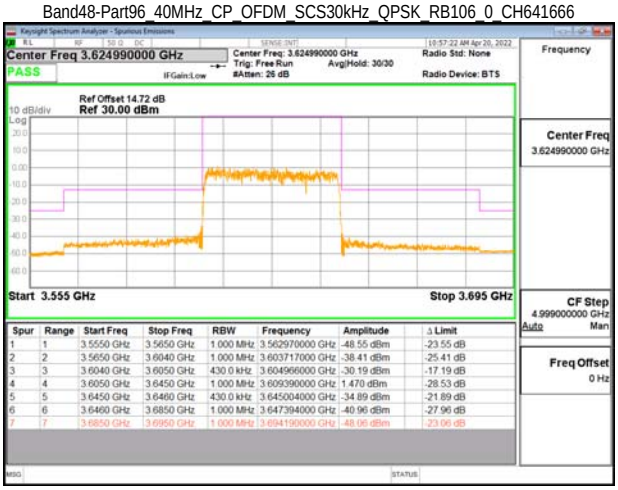
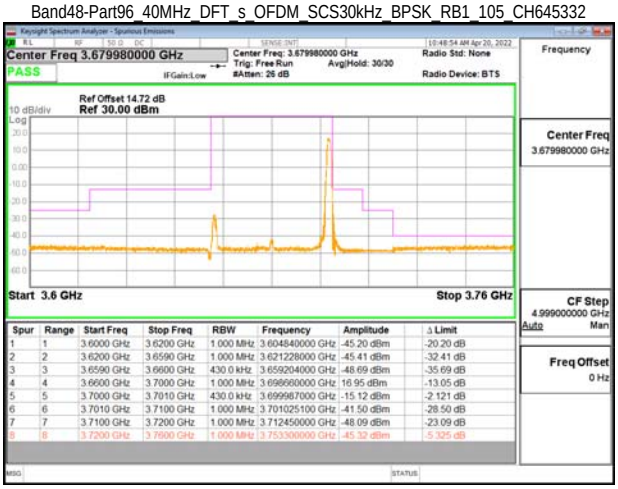
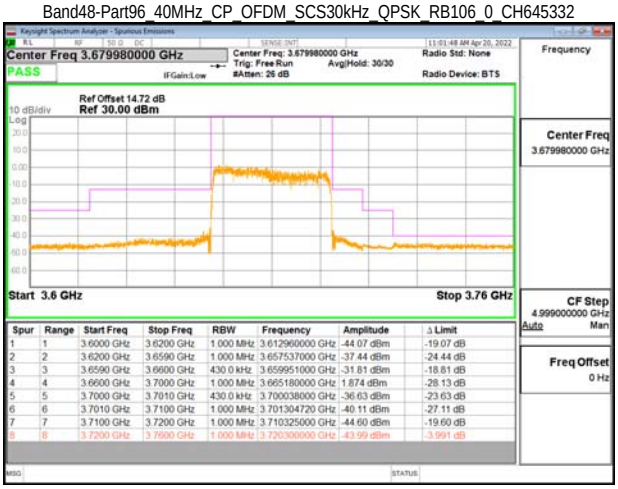


Band48-Part96_40MHz_DFT_s_OFDM_SCS30kHz_BPSK_RB1_105_CH645332



Band48-Part96_40MHz_CP_OFDM_SCS30kHz_QPSK_RB106_0_CH645332



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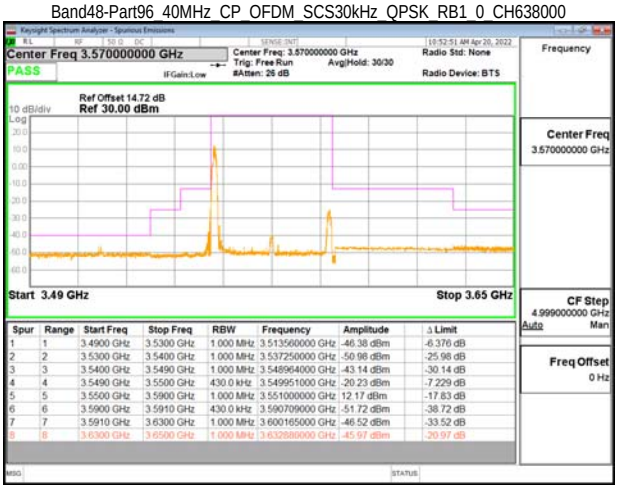
Band48-Part96_40MHz_CP_OFDM_SCS30kHz_QPSK_RB1_0_CH638000



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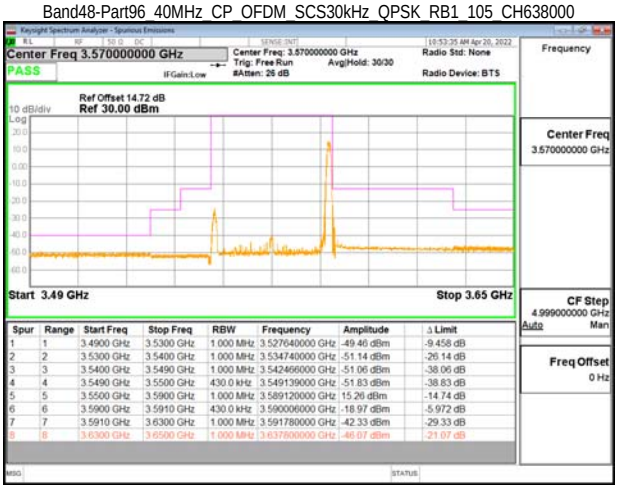

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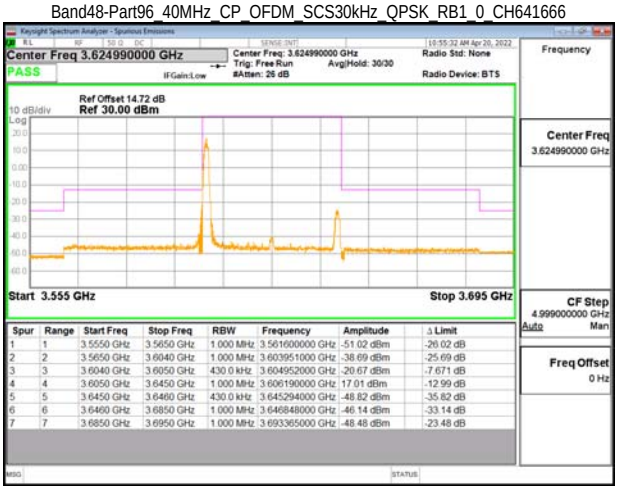

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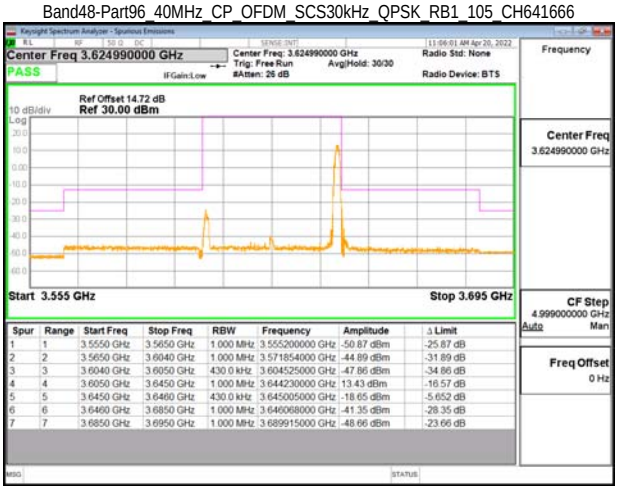

Band48-Part96_40MHz_CP_OFDM_SCS30kHz_QPSK_RB1_0_CH645332

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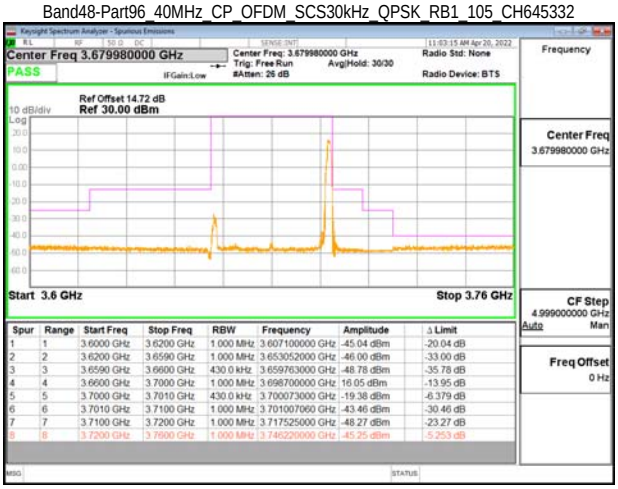

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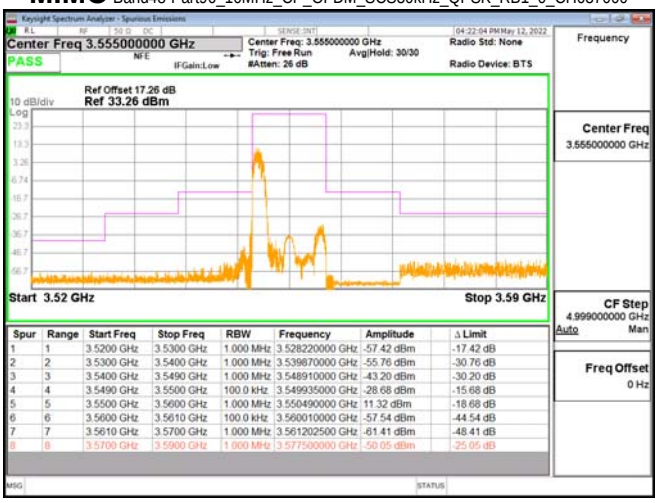
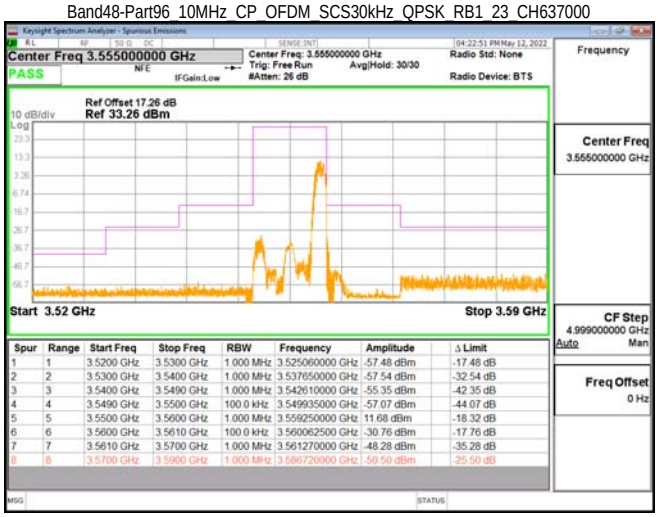
MIMO Band48-Part96_10MHz_CP_OFDM_SCS30kHz_QPSK_RB1_0_CH637000



Band48-Part96_10MHz_CP_OFDM_SCS30kHz_QPSK_RB1_23_CH637000



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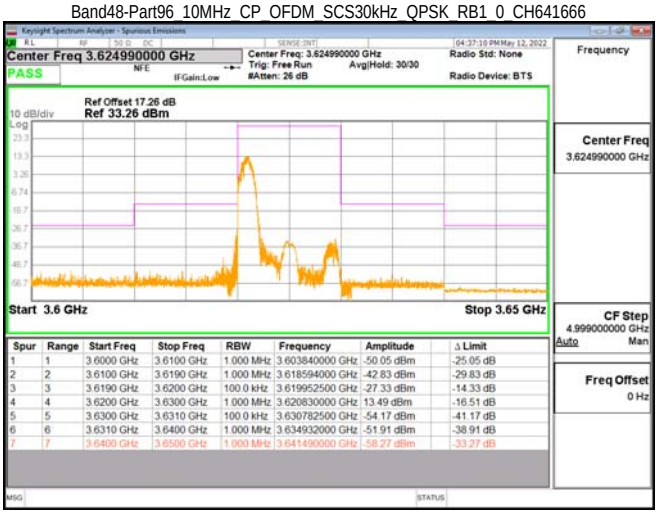

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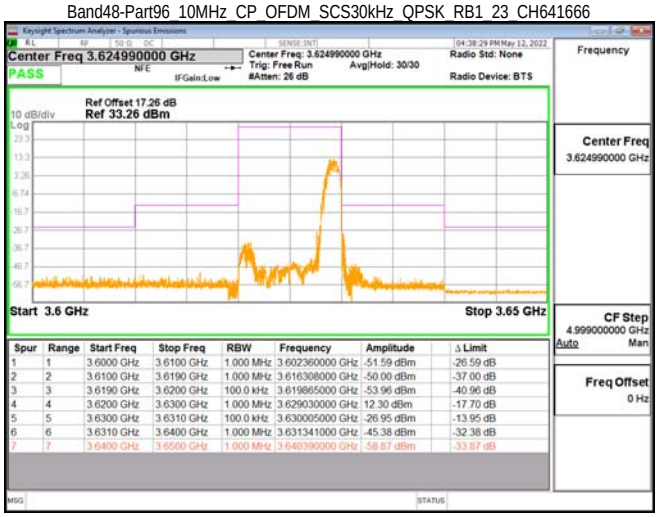

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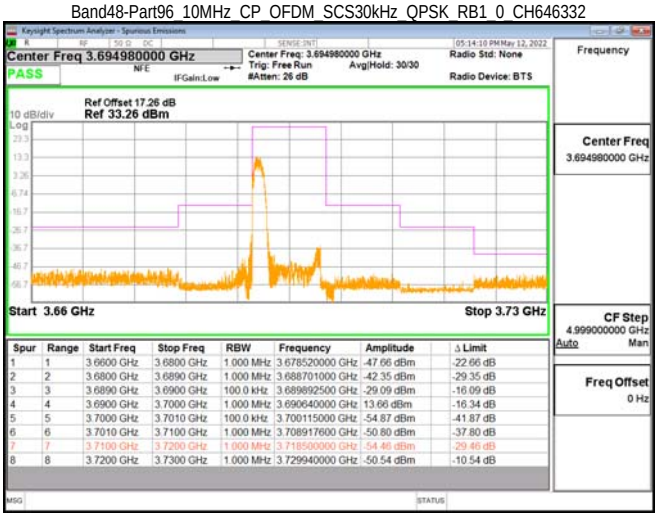

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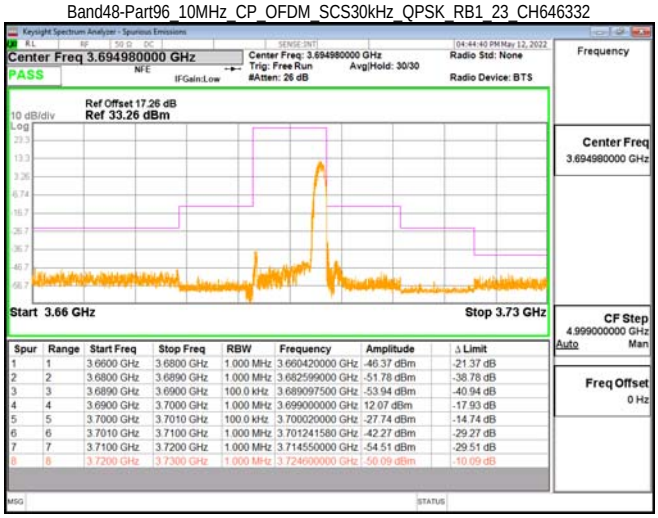

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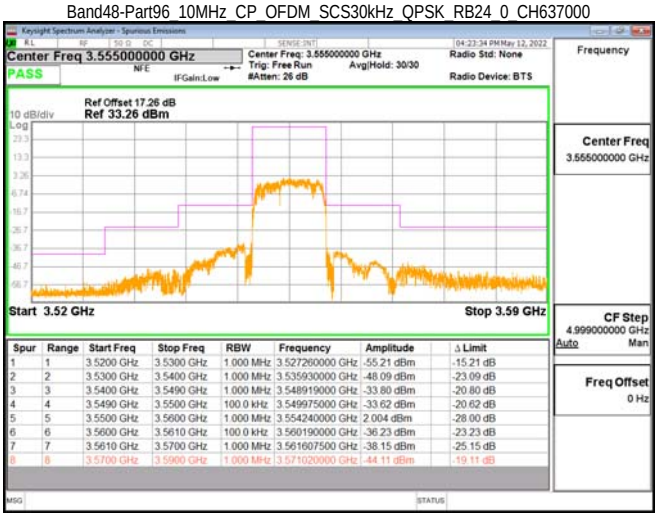
Band48-Part96_10MHz_CP_OFDM_SCS30kHz_QPSK_RB24_0_CH637000



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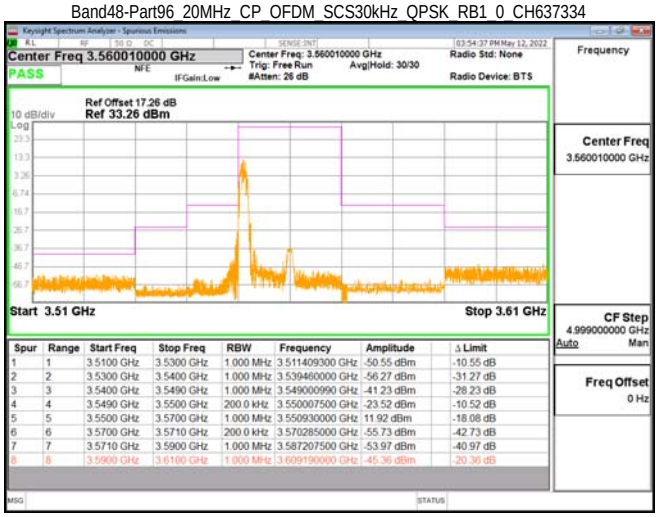

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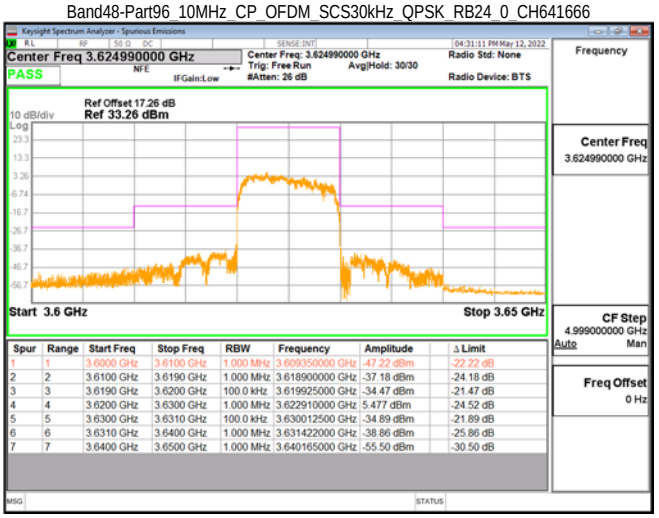

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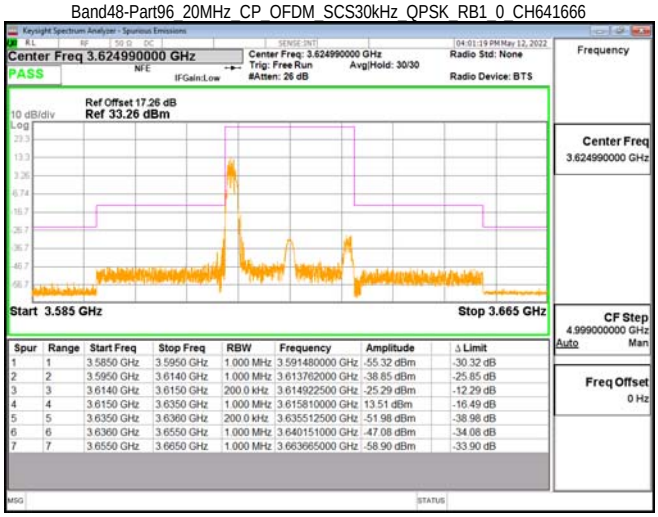

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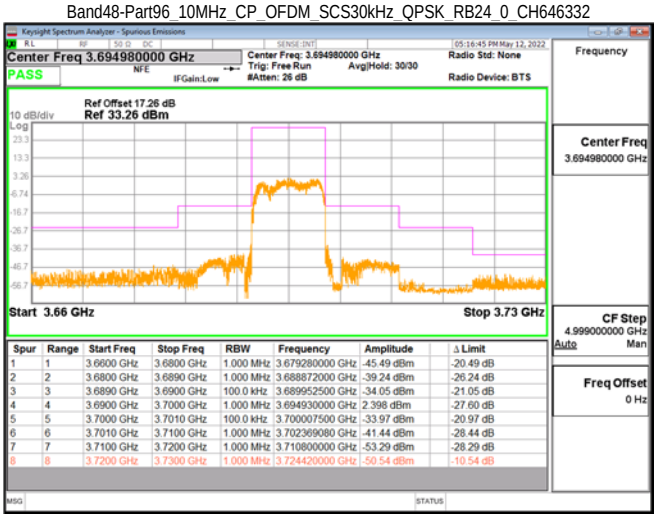

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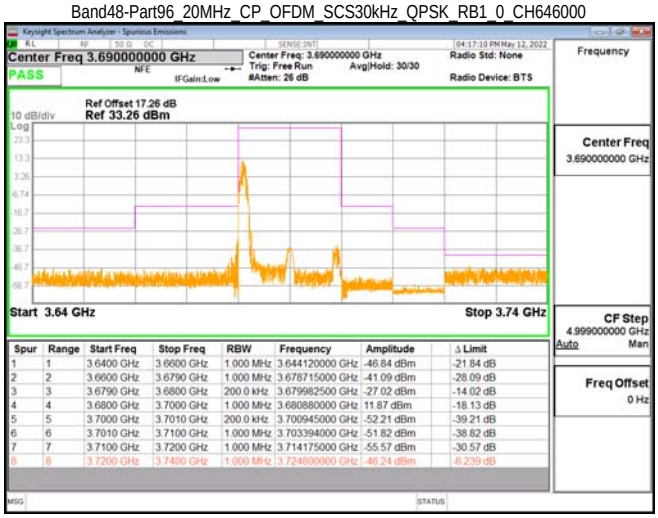

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