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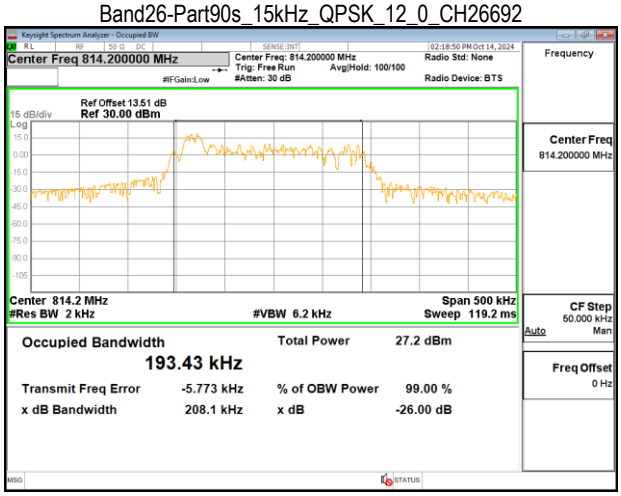

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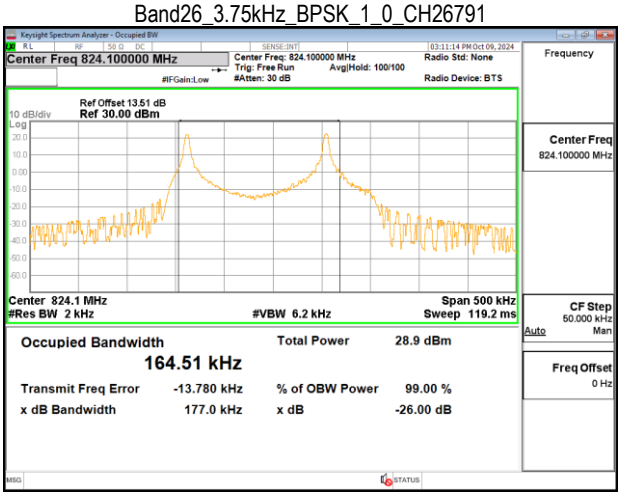

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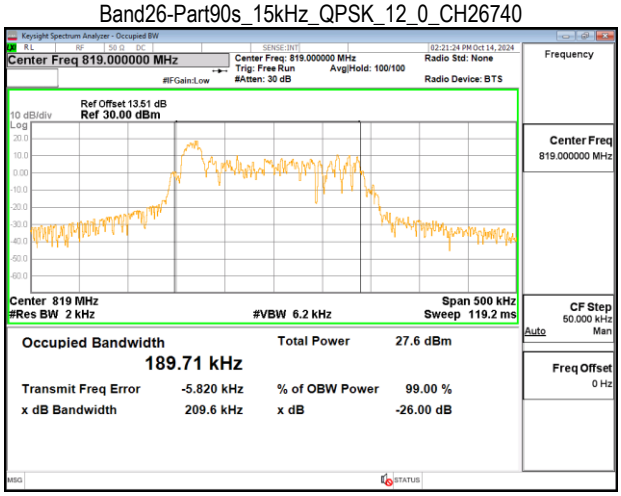

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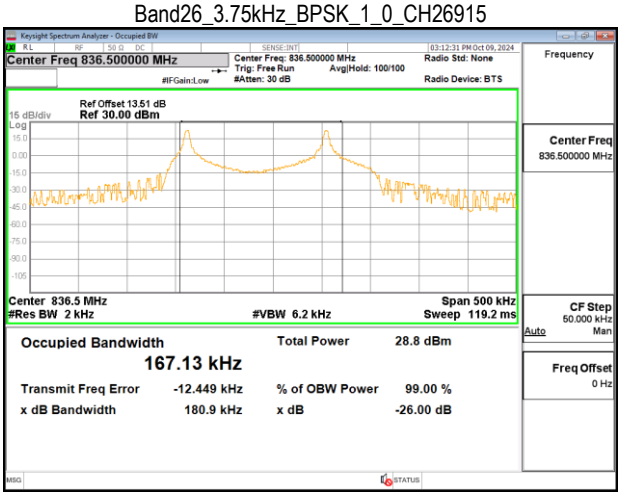

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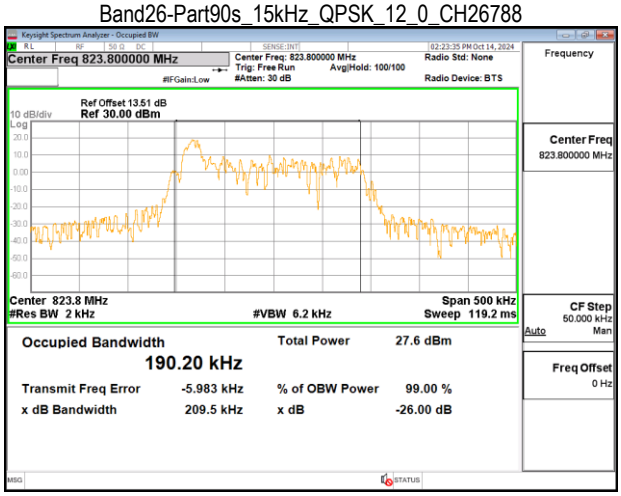

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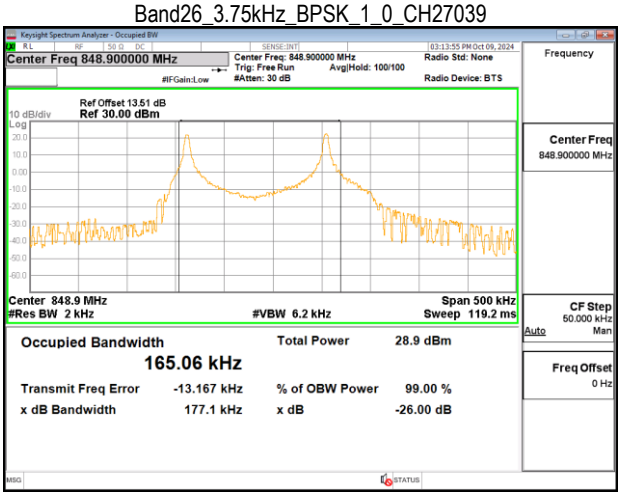

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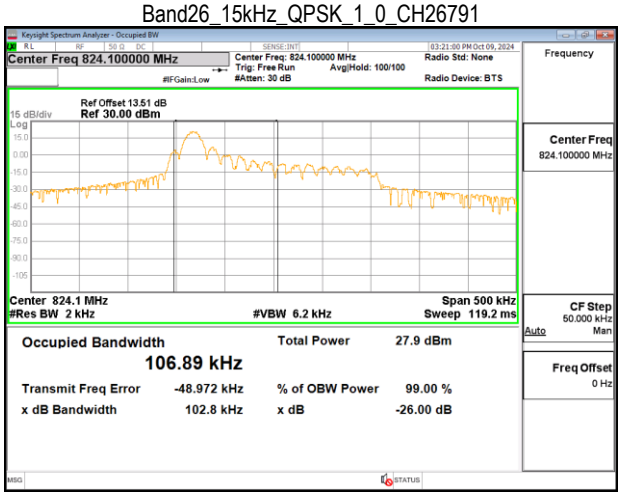
Band26_15kHz_QPSK_1_0_CH26791



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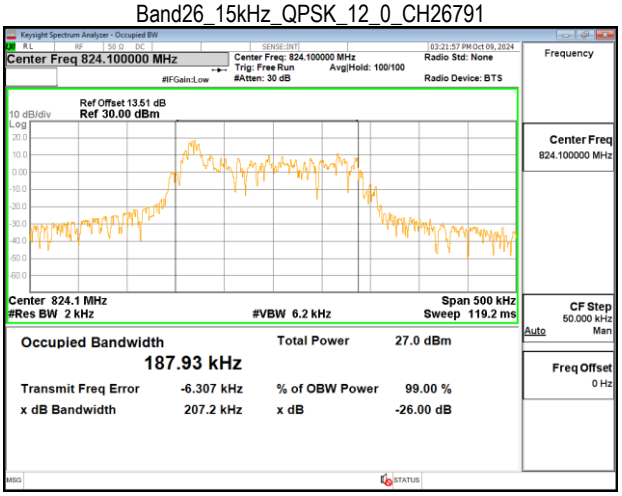

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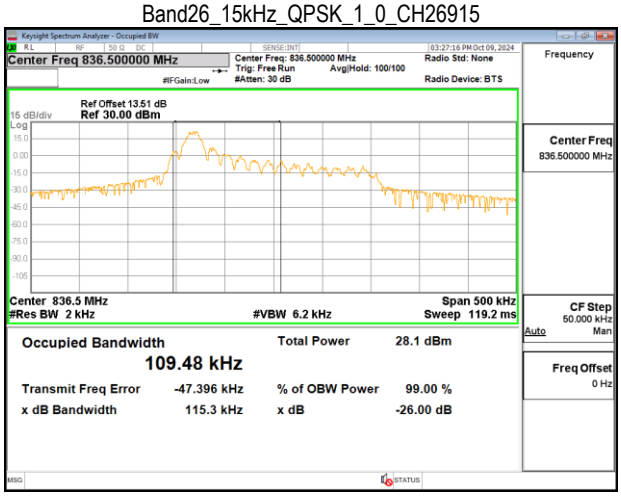

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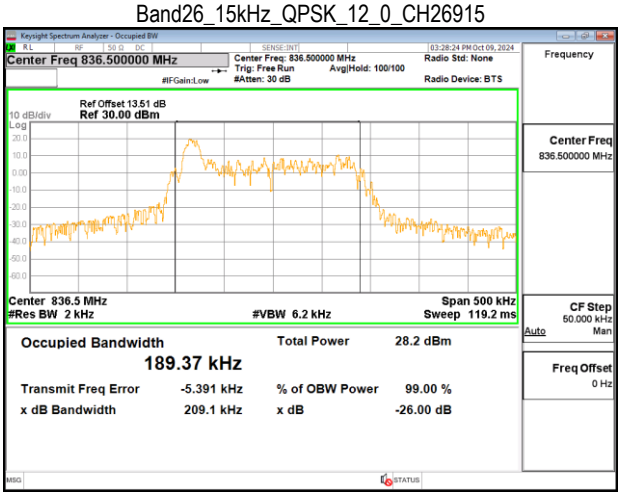

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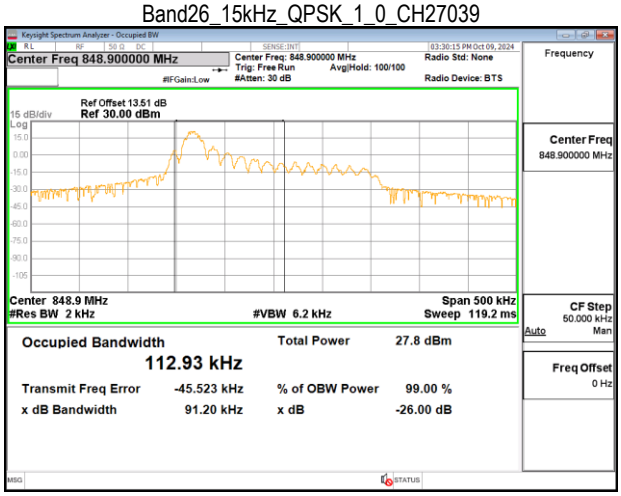

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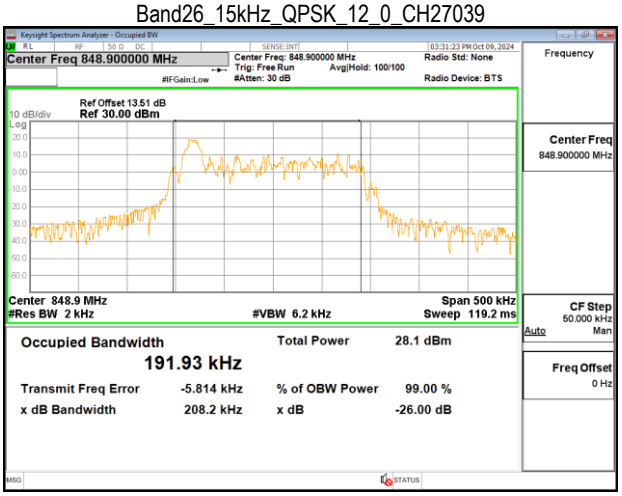

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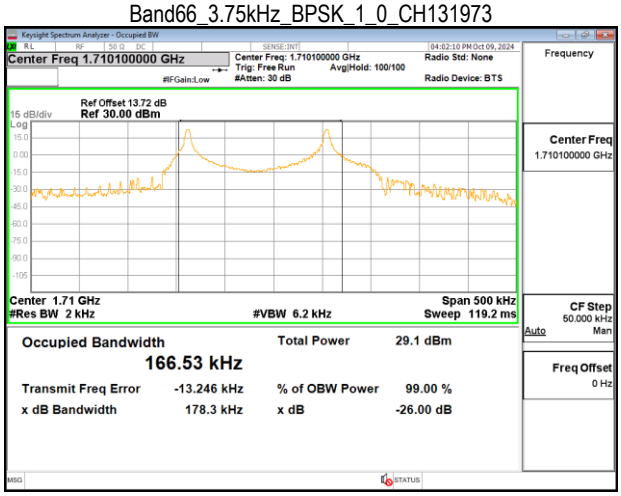
Band66_3.75kHz_BPSK_1_0_CH131973



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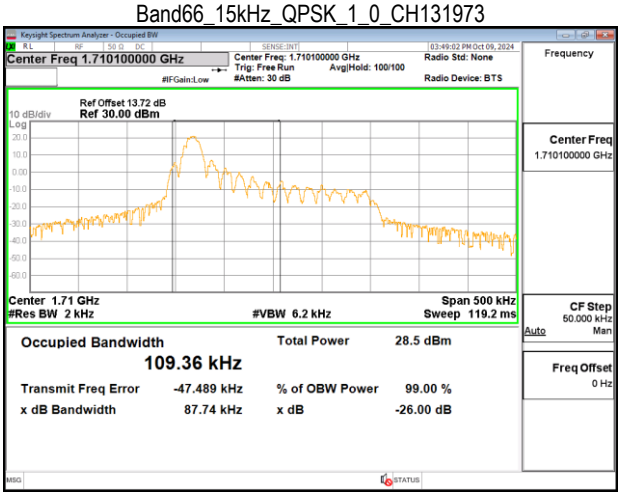

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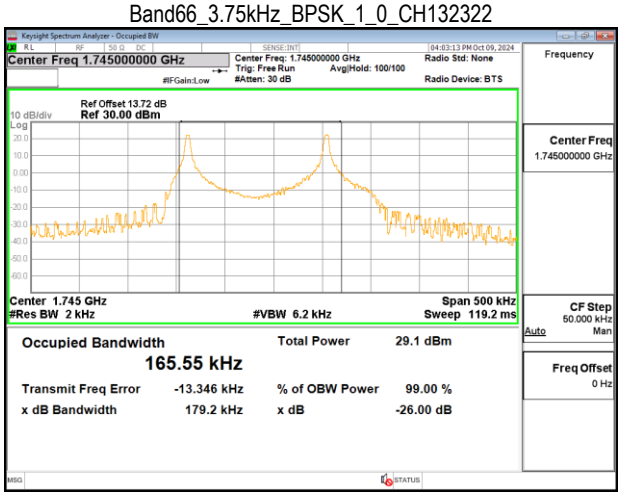

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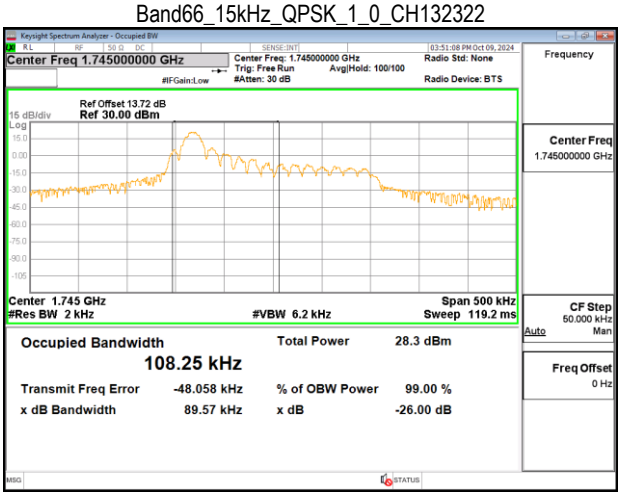

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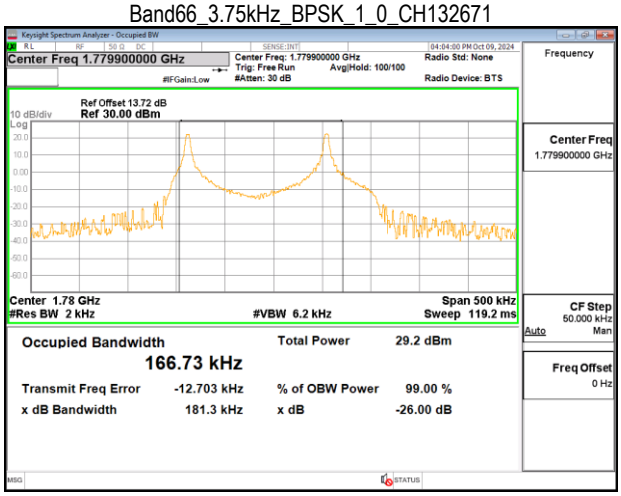

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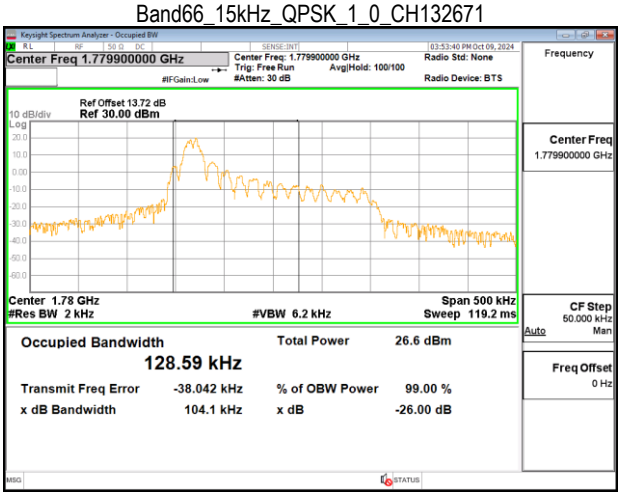

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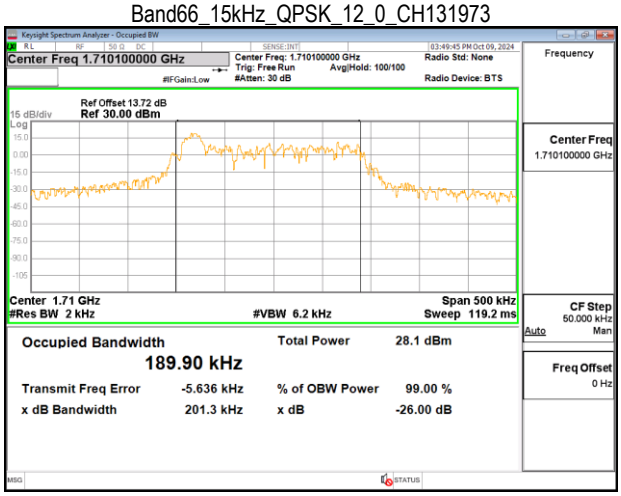
Band66_15kHz_QPSK_12_0_CH131973



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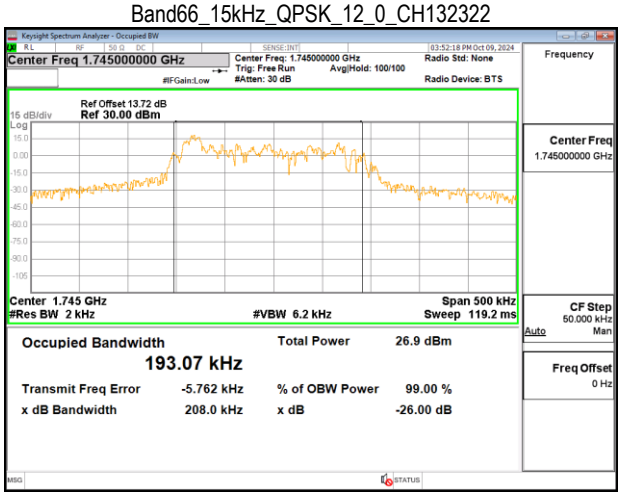

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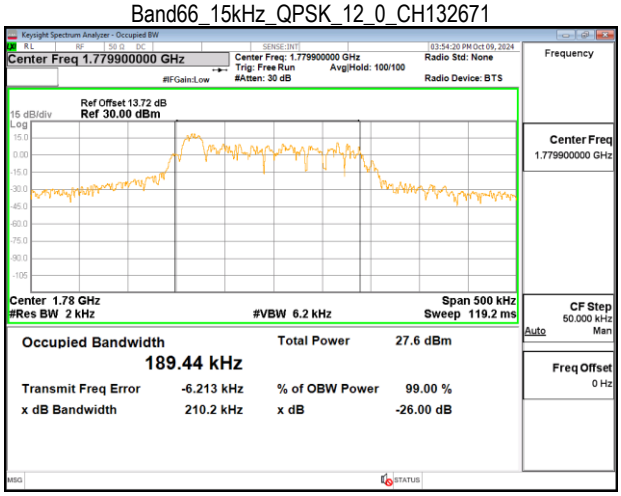

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9 OUT OF BAND EMISSION AT ANTENNA TERMINALS

9.1 Standard Applicable

FCC §22.917(a), §24.238(a), §27.53(h), §90.543(e)(3)
RSS-130 §4.7, RSS-132 §5.5, RSS-133 §5.6, RSS-139 §5.6
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;

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 log10 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.

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 log10 p (watts), dB, for base and fixed equipment and
65 + 10 log10 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.

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RSS-132 §5.5

i. Equipment shall meet the unwanted emission limits specified below:
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 below the transmitter output power P (dBW) by at least 43 + 10 log(p) dB.

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 below the transmitter output power P (dBW) by at least 43 + 10 log(p) dB. If the measurement is performed using 1% of the occupied bandwidth, power integration over 100 kHz is required.

p is the output power specified in watts.

RSS-133 §5.6

Unwanted emissions shall be measured in terms of average values while the transmitter is operating at the manufacturer's rated power and modulated as specified in RSS-Gen. Equipment shall meet the unwanted emission limits, specified in table 3, outside each frequency block group. For each channel bandwidth supported by the equipment under test, the unwanted emissions shall be measured and reported for two channel frequencies: one located as close as possible to the low end and one located as close as possible to the high end of the equipment's operating frequency range. For the unwanted emission limits, in the 1 MHz bands immediately outside and adjacent to the frequency block group, the power shall be measured with a resolution bandwidth of at least 1% of the occupied bandwidth (OBW). Beyond these 1 MHz bands, a resolution bandwidth of 1 MHz shall be used. A narrower resolution bandwidth may be used, provided that the Personal Communications Service Equipment Operating in the Bands 1850-1915 MHz and 1930-1995 MHz RSS-133 6 measured power is integrated over the full required measurement bandwidth of 1 MHz, or 1% of the OBW, as applicable. For all equipment, the TRP or total conducted power (sum of conducted power across all antenna connectors), where applicable, of the unwanted emissions outside the frequency block or frequency block group shall not exceed the limits shown in the table 3.

Table 3: Unwanted emission limits for all equipment

Offset frequency from the edge of the frequency block group (MHz)	Unwanted emission limits
≤1	-13 dBm/(1% of OB*)
>1 MHz	-13 dBm/MHz

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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RSS-139 §5.6

Unwanted emissions shall be measured in terms of average values.

For all equipment, the TRP or total conducted power (sum of conducted power across all antenna connectors) of the unwanted emissions outside the frequency block or frequency block group shall not exceed the limits shown in table 6.

Table 6: Table 6: Unwanted emission limits	
Offset from the edge of the frequency block or frequency block group	**Unwanted emission limits**
1 MHz	-13 dBm/(1% of OB*)
>1 MHz	-13 dBm/MHz
Subscriber equipment	30 dBm e.i.r.p./channel bandwidth

*OB is the occupied bandwidth.

In addition to complying with the above limits, equipment operating in the band 2180-2200 MHz may require additional filtering (see SRSP-519).

FCC §90.691 Emission mask requirements for EA-based systems

(a) Out-of-band emission requirement shall apply only to the “outer” channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:

(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 116 Log10(f/6.1) decibels or 50 + 10 Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 43 + 10Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

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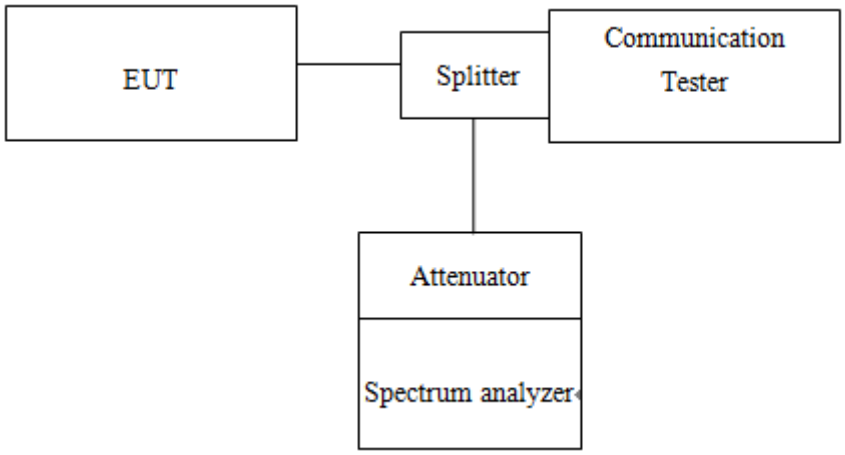
9.2 Test Set-up



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

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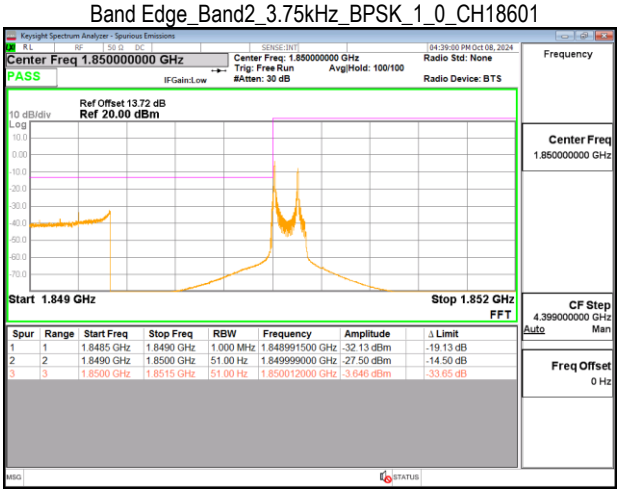
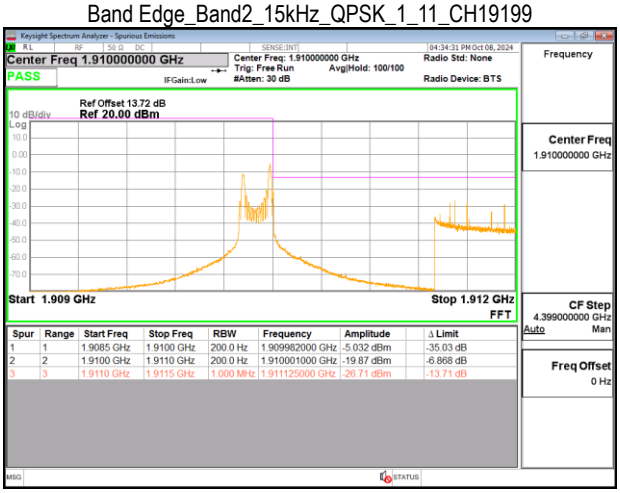
9.4 Measurement Result:

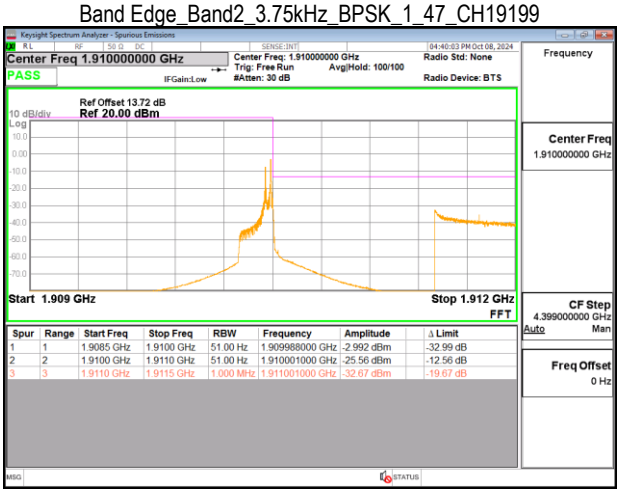
Band Edge_Band2_3.75kHz_BPSK_1_0_CH18601



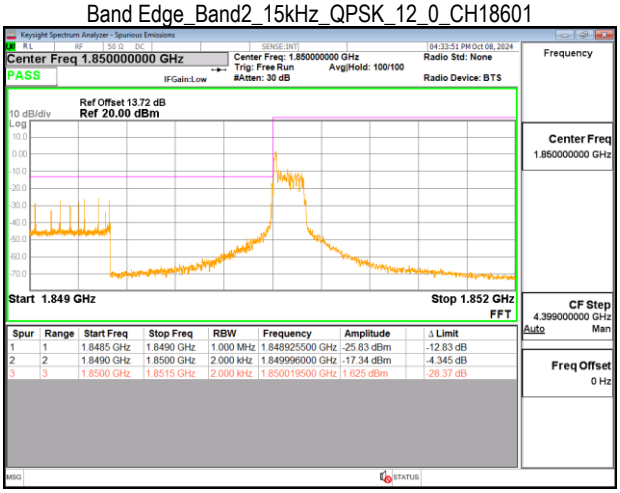
Band Edge_Band2_15kHz_QPSK_1_11_CH19199



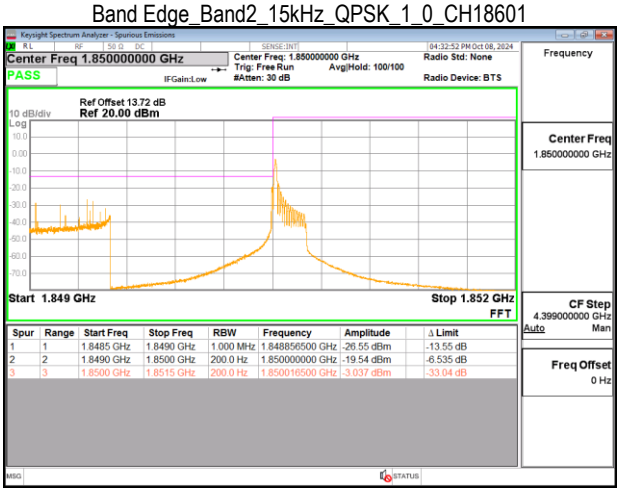
Band Edge_Band2_3.75kHz_BPSK_1_47_CH19199



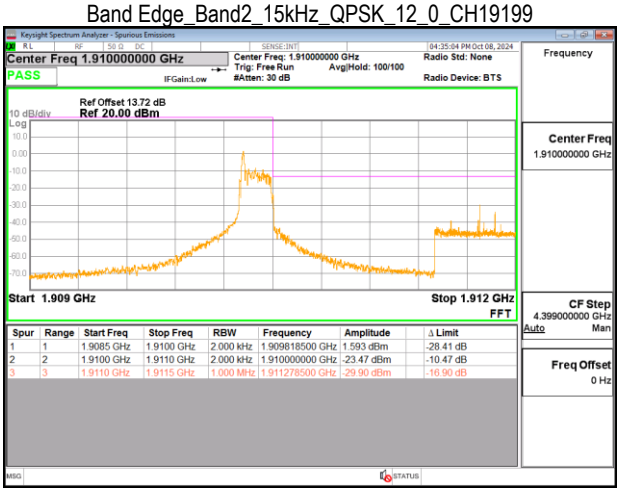
Band Edge_Band2_15kHz_QPSK_12_0_CH18601



Band Edge_Band2_15kHz_QPSK_1_0_CH18601



Band Edge_Band2_15kHz_QPSK_12_0_CH19199



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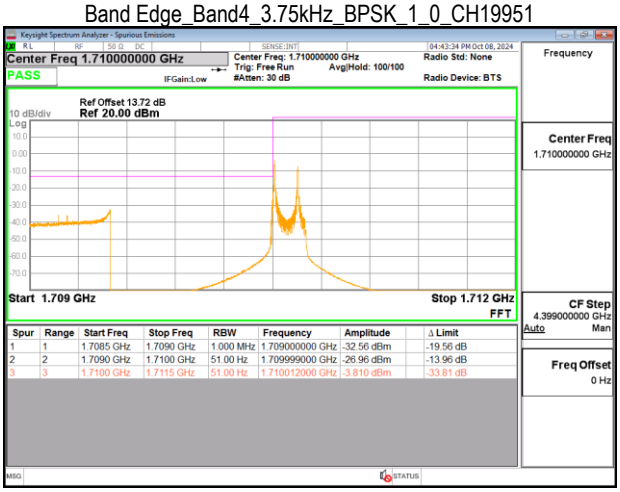
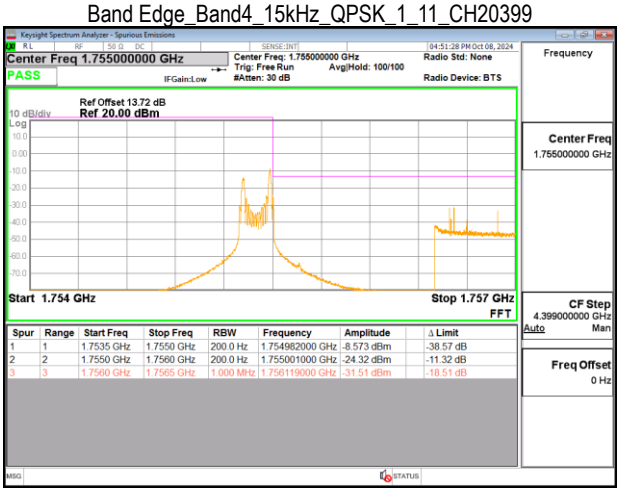
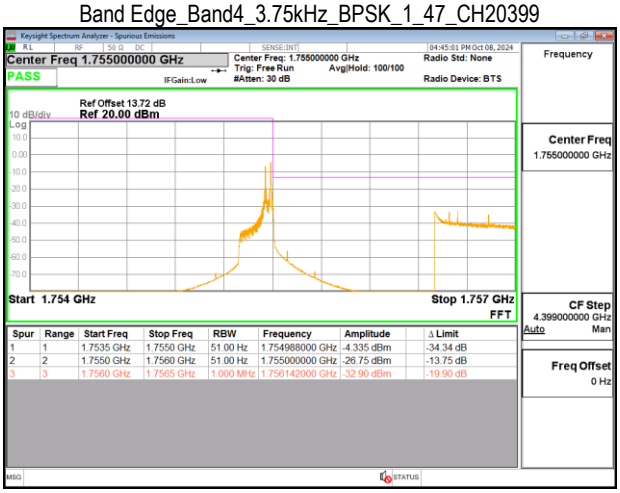
Band Edge_Band4_3.75kHz_BPSK_1_0_CH19951



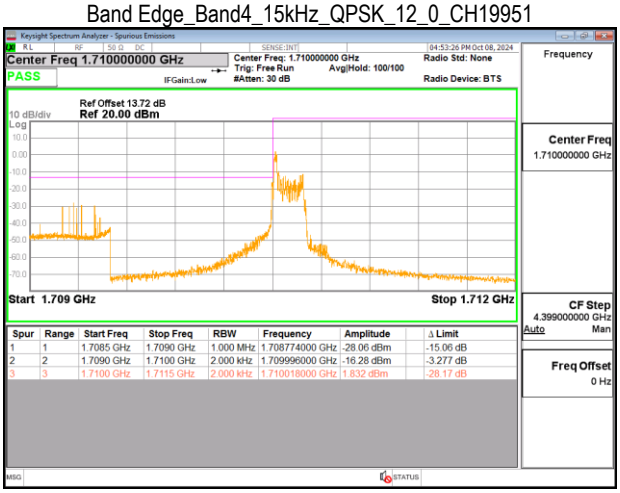
Band Edge_Band4_15kHz_QPSK_1_11_CH20399



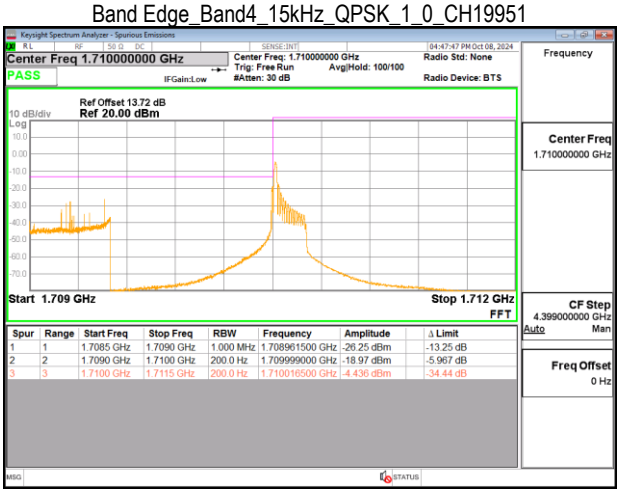
Band Edge_Band4_3.75kHz_BPSK_1_47_CH20399



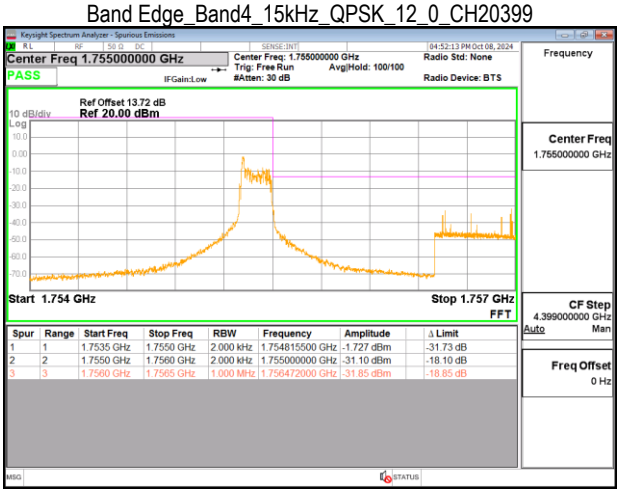
Band Edge_Band4_15kHz_QPSK_12_0_CH19951



Band Edge_Band4_15kHz_QPSK_1_0_CH19951



Band Edge_Band4_15kHz_QPSK_12_0_CH20399



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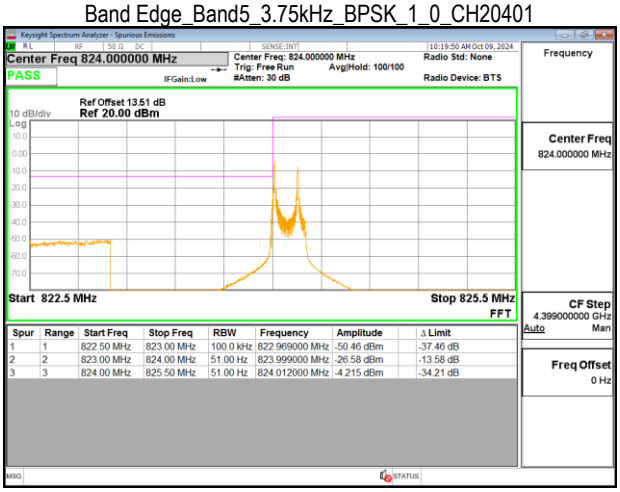
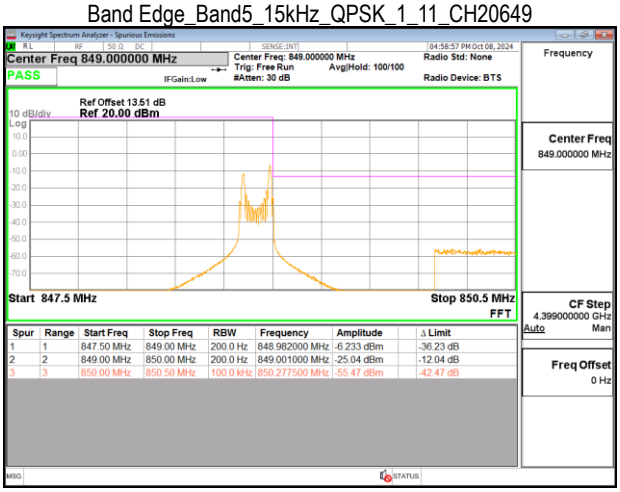
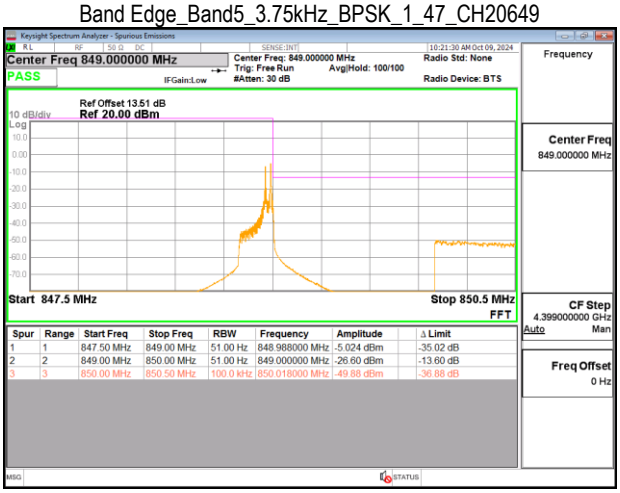
Band Edge_Band5_3.75kHz_BPSK_1_0_CH20401



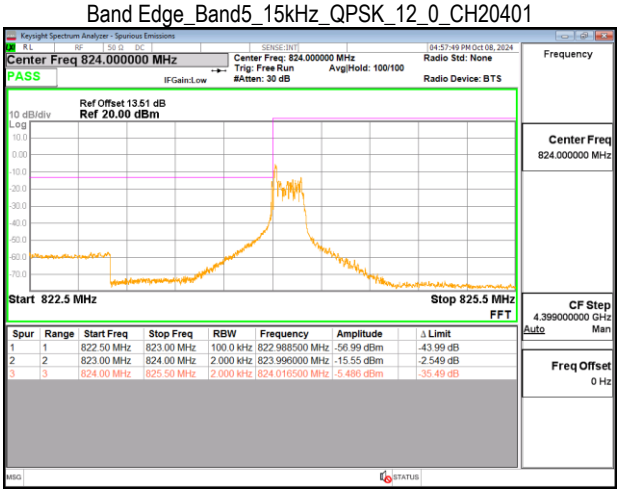
Band Edge_Band5_15kHz_QPSK_1_11_CH20649



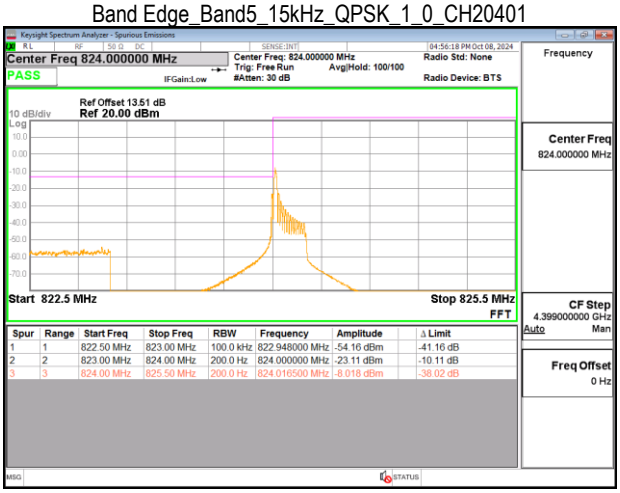
Band Edge_Band5_3.75kHz_BPSK_1_47_CH20649



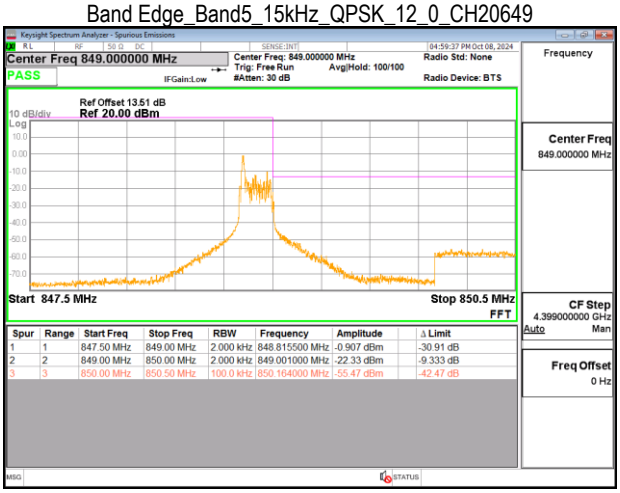
Band Edge_Band5_15kHz_QPSK_12_0_CH20401



Band Edge_Band5_15kHz_QPSK_1_0_CH20401



Band Edge_Band5_15kHz_QPSK_12_0_CH20649



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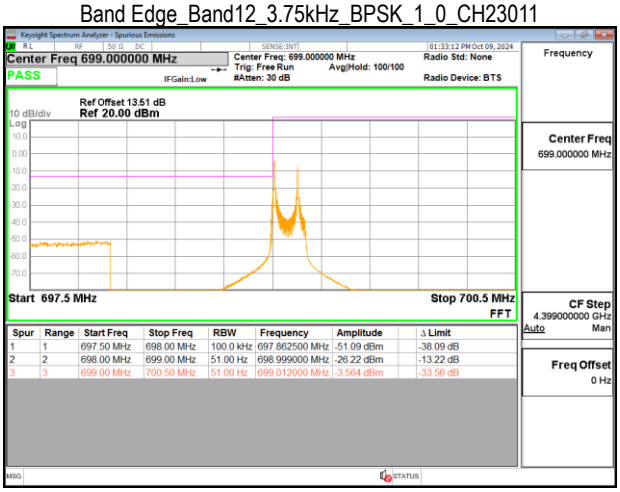
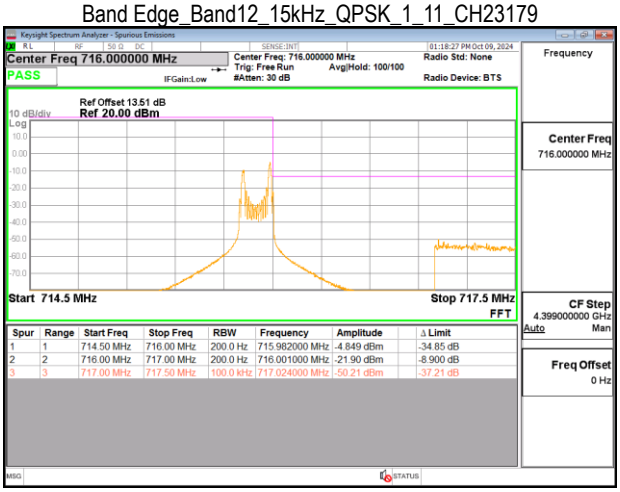
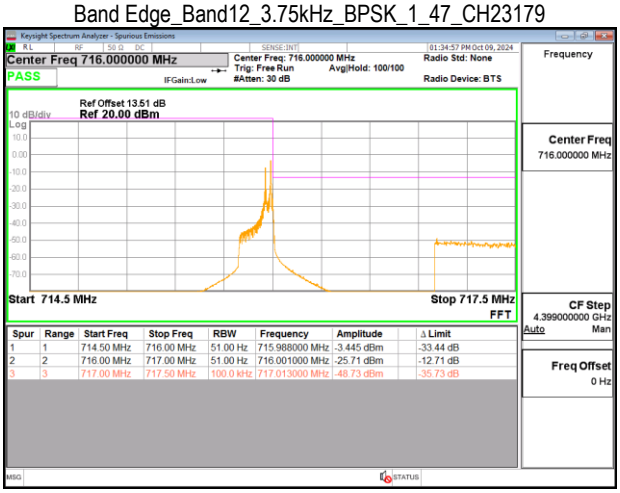
Band Edge_Band12_3.75kHz_BPSK_1_0_CH23011



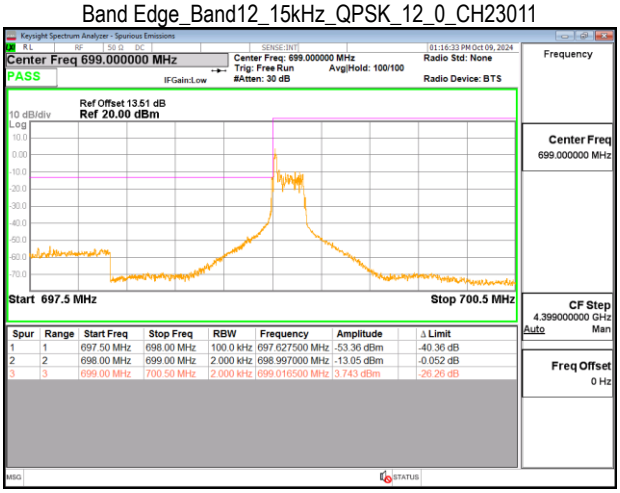
Band Edge_Band12_15kHz_QPSK_1_11_CH23179



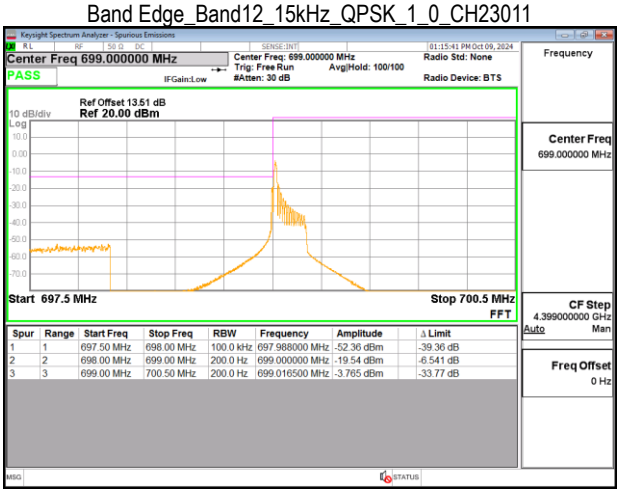
Band Edge_Band12_3.75kHz_BPSK_1_47_CH23179



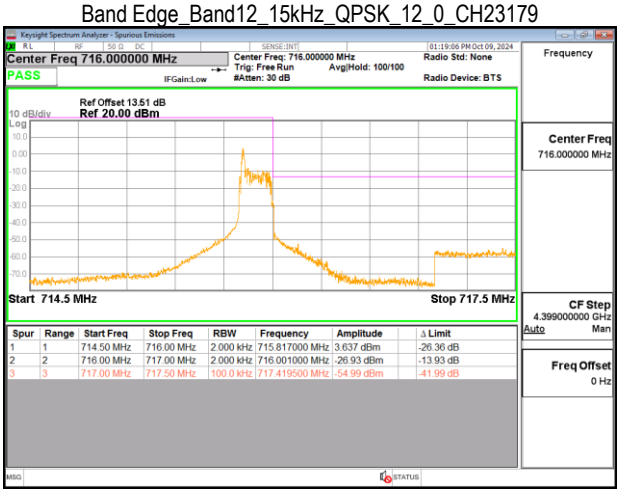
Band Edge_Band12_15kHz_QPSK_12_0_CH23011



Band Edge_Band12_15kHz_QPSK_1_0_CH23011



Band Edge_Band12_15kHz_QPSK_12_0_CH23179



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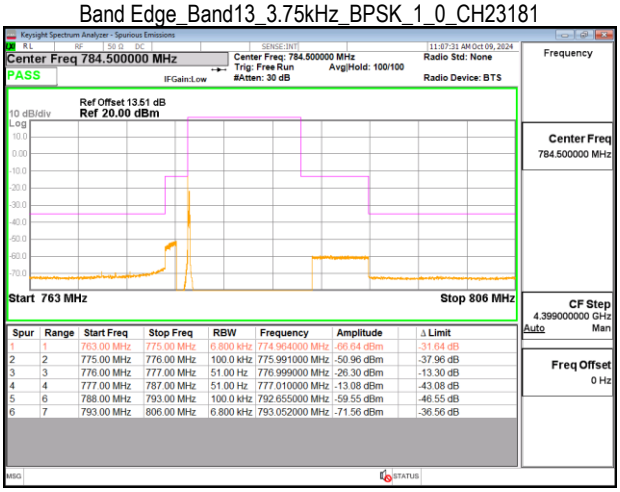
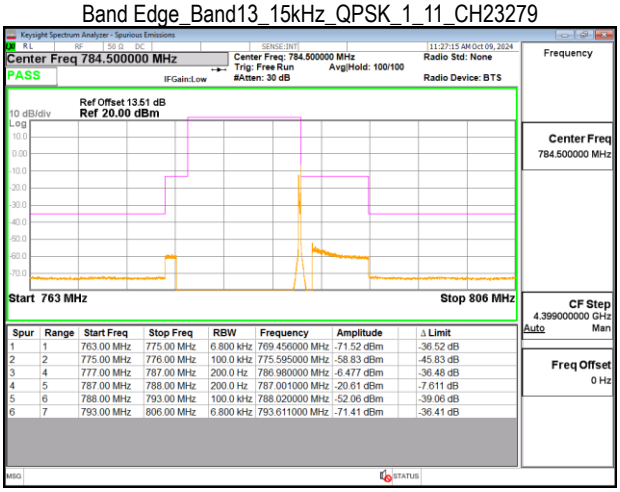
Band Edge_Band13_3.75kHz_BPSK_1_0_CH23181



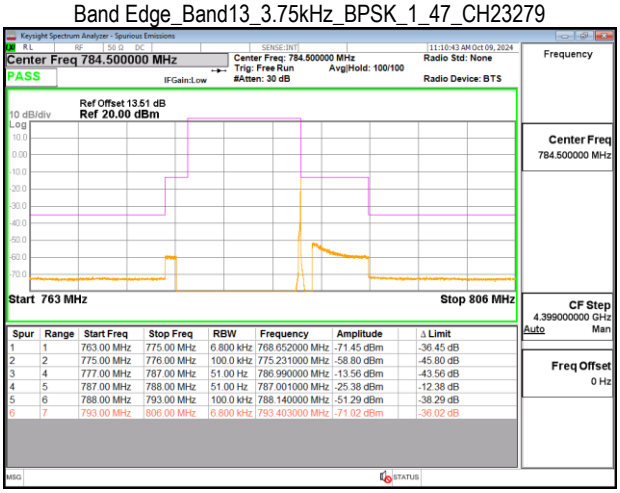
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	763.00 MHz	775.00 MHz	6.800 kHz	774.904000 MHz	-66.64 dBm	-31.64 dB
2	2	775.00 MHz	776.00 MHz	100.0 kHz	775.991000 MHz	-50.96 dBm	-37.96 dB
3	3	776.00 MHz	777.00 MHz	51.00 Hz	776.999000 MHz	-26.30 dBm	-13.30 dB
4	4	777.00 MHz	787.00 MHz	51.00 Hz	777.010000 MHz	-13.08 dBm	-43.08 dB
5	6	788.00 MHz	793.00 MHz	100.0 kHz	792.655000 MHz	-59.55 dBm	-46.55 dB
6	7	793.00 MHz	806.00 MHz	6.800 kHz	793.052000 MHz	-71.56 dBm	-36.56 dB

Band Edge_Band13_15kHz_QPSK_1_11_CH23279



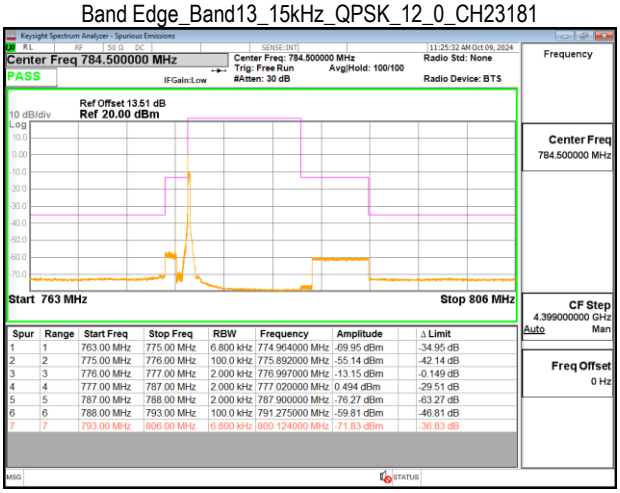
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	763.00 MHz	775.00 MHz	6.800 kHz	769.456000 MHz	-71.52 dBm	-36.52 dB
2	2	775.00 MHz	776.00 MHz	100.0 kHz	775.595000 MHz	-58.83 dBm	-45.83 dB
3	4	777.00 MHz	787.00 MHz	200.0 Hz	786.980000 MHz	-6.477 dBm	-36.48 dB
4	5	787.00 MHz	788.00 MHz	200.0 Hz	787.001000 MHz	-20.61 dBm	-7.611 dB
5	6	788.00 MHz	793.00 MHz	100.0 kHz	788.020000 MHz	-52.06 dBm	-39.06 dB
6	7	793.00 MHz	806.00 MHz	6.800 kHz	793.611000 MHz	-71.41 dBm	-36.41 dB

Band Edge_Band13_3.75kHz_BPSK_1_47_CH23279



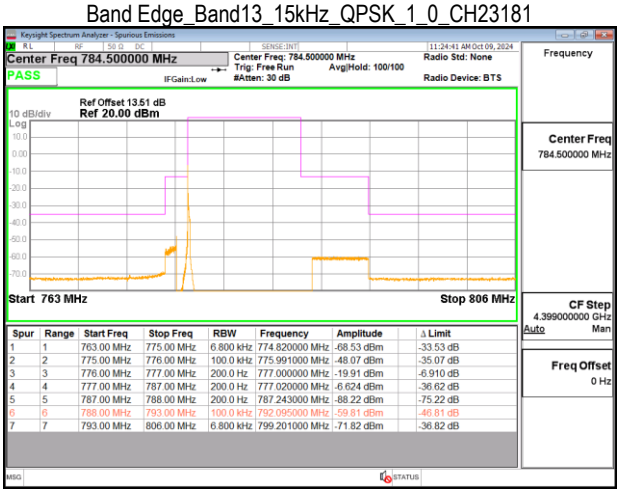
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	763.00 MHz	775.00 MHz	6.800 kHz	768.652000 MHz	-71.45 dBm	-36.45 dB
2	2	775.00 MHz	776.00 MHz	100.0 kHz	775.231000 MHz	-58.80 dBm	-45.80 dB
3	4	777.00 MHz	787.00 MHz	51.00 Hz	786.990000 MHz	-13.56 dBm	-43.56 dB
4	5	787.00 MHz	788.00 MHz	51.00 Hz	787.001000 MHz	-25.38 dBm	-12.38 dB
5	6	788.00 MHz	793.00 MHz	100.0 kHz	788.140000 MHz	-51.29 dBm	-38.29 dB
6	7	793.00 MHz	806.00 MHz	6.800 kHz	793.403000 MHz	-71.02 dBm	-36.02 dB

Band Edge_Band13_15kHz_QPSK_12_0_CH23181



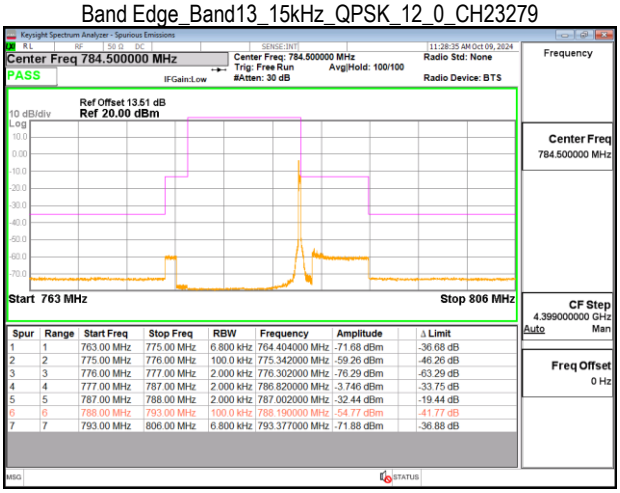
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	763.00 MHz	775.00 MHz	6.800 kHz	774.964000 MHz	-69.95 dBm	-34.95 dB
2	2	775.00 MHz	776.00 MHz	100.0 kHz	775.892000 MHz	-55.14 dBm	-42.14 dB
3	3	776.00 MHz	777.00 MHz	2.000 kHz	776.997000 MHz	-13.15 dBm	-0.149 dB
4	4	777.00 MHz	787.00 MHz	2.000 kHz	777.020000 MHz	0.494 dBm	-29.51 dB
5	5	787.00 MHz	788.00 MHz	2.000 kHz	787.900000 MHz	-76.27 dBm	-63.27 dB
6	6	788.00 MHz	793.00 MHz	100.0 kHz	791.275000 MHz	-59.81 dBm	-46.81 dB
7	7	793.00 MHz	806.00 MHz	6.800 kHz	800.124000 MHz	-71.83 dBm	-36.83 dB

Band Edge_Band13_15kHz_QPSK_1_0_CH23181



Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	763.00 MHz	775.00 MHz	6.800 kHz	774.820000 MHz	-68.53 dBm	-33.53 dB
2	2	775.00 MHz	776.00 MHz	100.0 kHz	775.991000 MHz	-48.07 dBm	-35.07 dB
3	3	776.00 MHz	777.00 MHz	200.0 Hz	777.000000 MHz	-19.91 dBm	-6.910 dB
4	4	777.00 MHz	787.00 MHz	200.0 Hz	777.020000 MHz	-6.624 dBm	-36.62 dB
5	5	787.00 MHz	788.00 MHz	200.0 Hz	787.243000 MHz	-88.22 dBm	-75.22 dB
6	6	788.00 MHz	793.00 MHz	100.0 kHz	792.095000 MHz	-59.81 dBm	-46.81 dB
7	7	793.00 MHz	806.00 MHz	6.800 kHz	799.201000 MHz	-71.82 dBm	-36.82 dB

Band Edge_Band13_15kHz_QPSK_12_0_CH23279



Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	763.00 MHz	775.00 MHz	6.800 kHz	764.404000 MHz	-71.68 dBm	-36.68 dB
2	2	775.00 MHz	776.00 MHz	100.0 kHz	775.342000 MHz	-59.26 dBm	-46.26 dB
3	3	776.00 MHz	777.00 MHz	2.000 kHz	776.302000 MHz	-76.29 dBm	-63.29 dB
4	4	777.00 MHz	787.00 MHz	2.000 kHz	786.820000 MHz	-3.746 dBm	-33.75 dB
5	5	787.00 MHz	788.00 MHz	2.000 kHz	787.002000 MHz	-32.44 dBm	-19.44 dB
6	6	788.00 MHz	793.00 MHz	100.0 kHz	788.190000 MHz	-54.77 dBm	-41.77 dB
7	7	793.00 MHz	806.00 MHz	6.800 kHz	793.377000 MHz	-71.88 dBm	-36.88 dB

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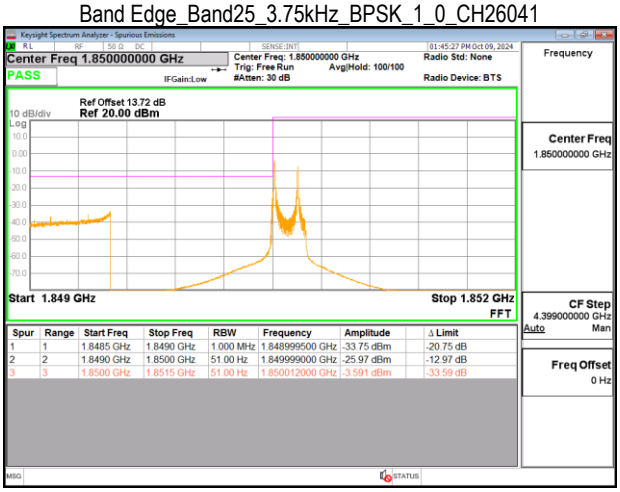
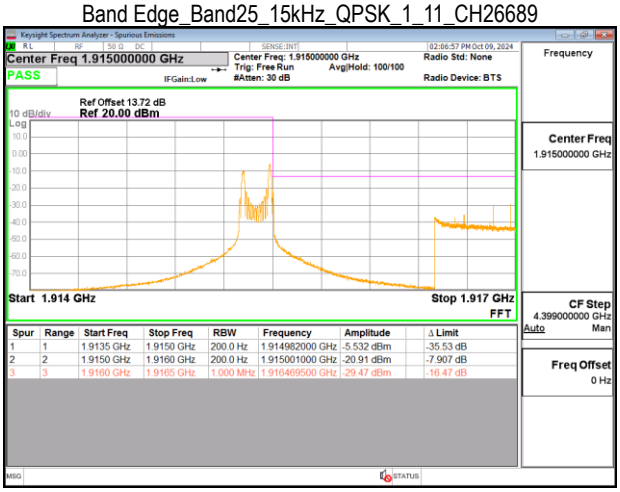
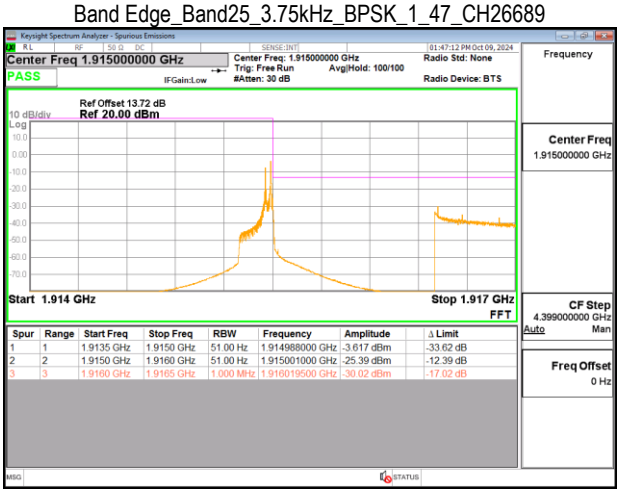
Band Edge_Band25_3.75kHz_BPSK_1_0_CH26041



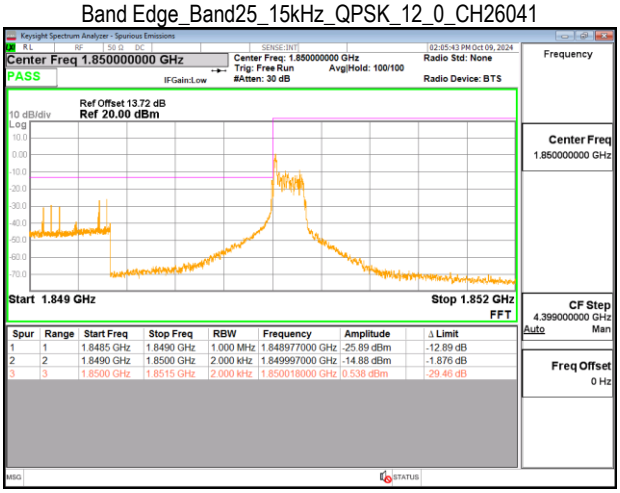
Band Edge_Band25_15kHz_QPSK_1_11_CH26689



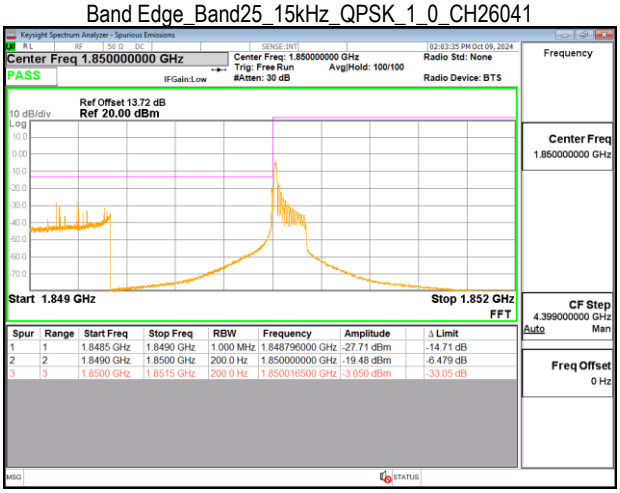
Band Edge_Band25_3.75kHz_BPSK_1_47_CH26689



Band Edge_Band25_15kHz_QPSK_12_0_CH26041



Band Edge_Band25_15kHz_QPSK_1_0_CH26041



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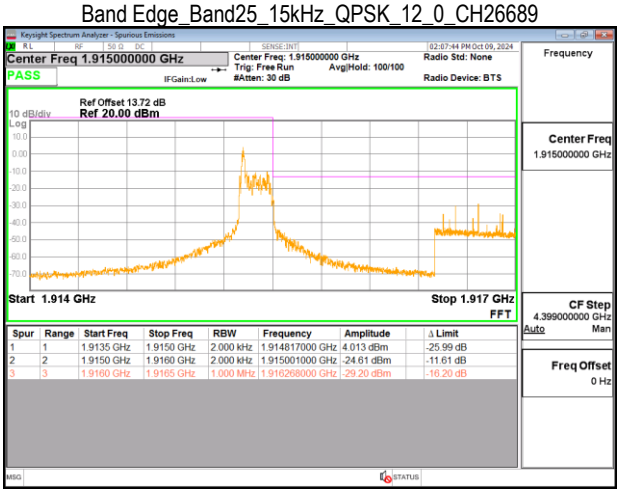

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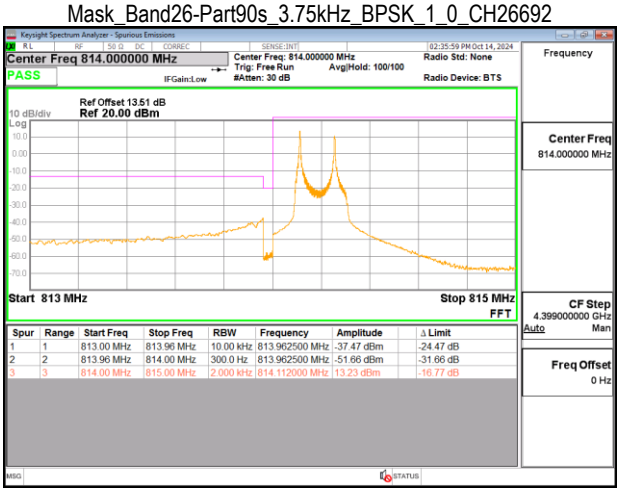
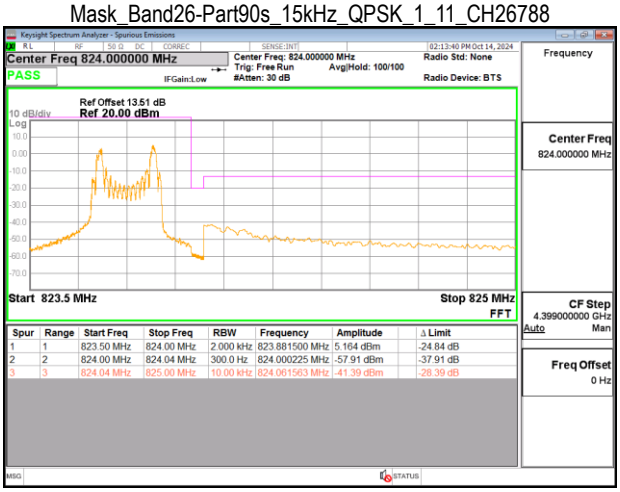
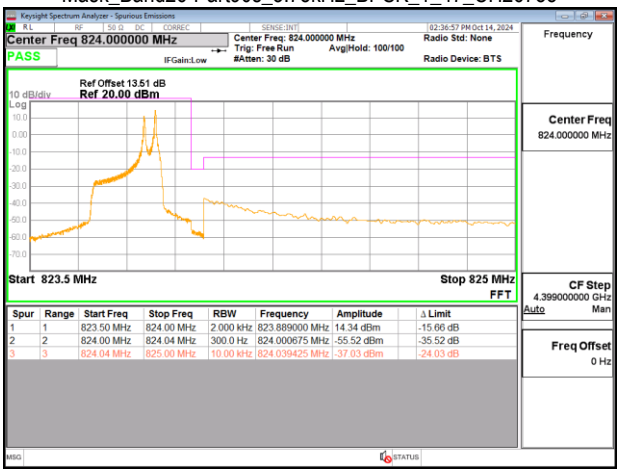
Mask_Band26-Part90s_3.75kHz_BPSK_1_0_CH26692



Mask_Band26-Part90s_15kHz_QPSK_1_11_CH26788



Mask_Band26-Part90s_3.75kHz_BPSK_1_47_CH26788



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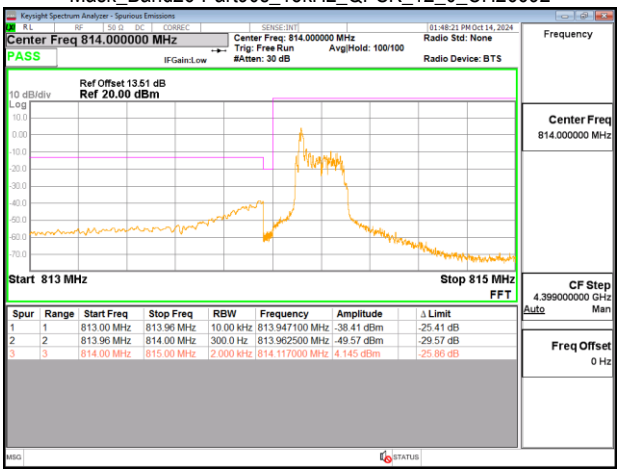
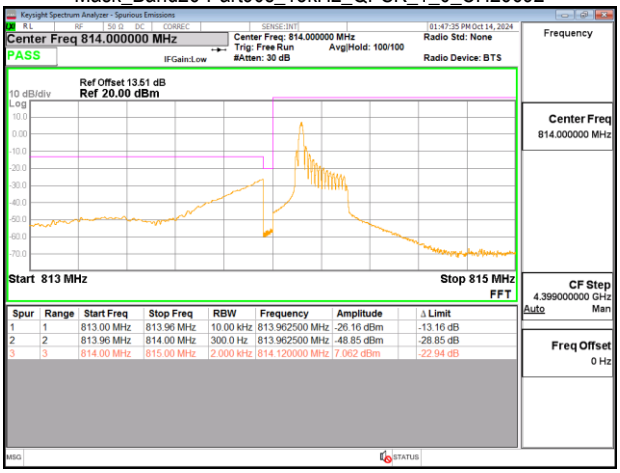
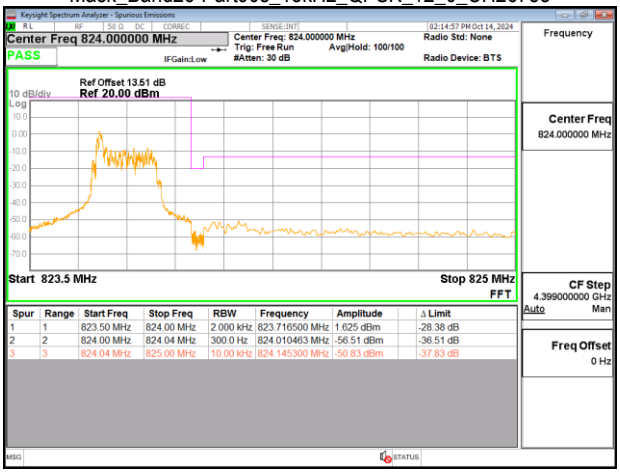


Mask_Band26-Part90s_15kHz_QPSK_1_0_CH26692



Mask_Band26-Part90s_15kHz_QPSK_12_0_CH26788



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