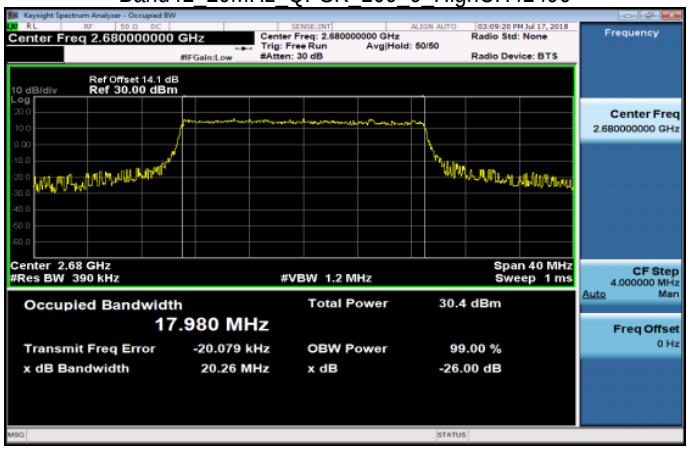
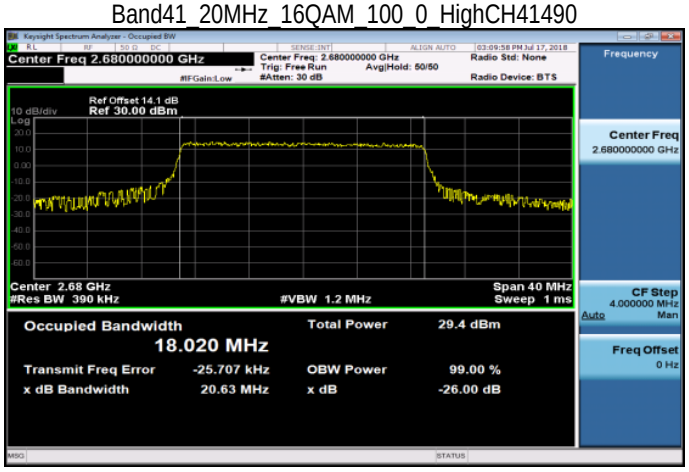
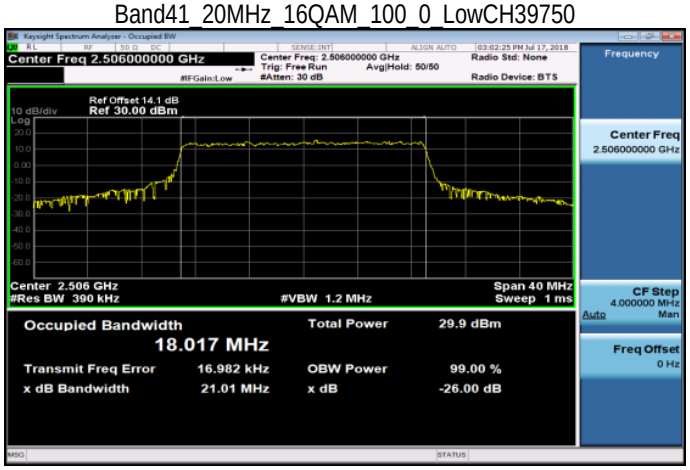
Band41_20MHz_QPSK_100_0_HighCH41490



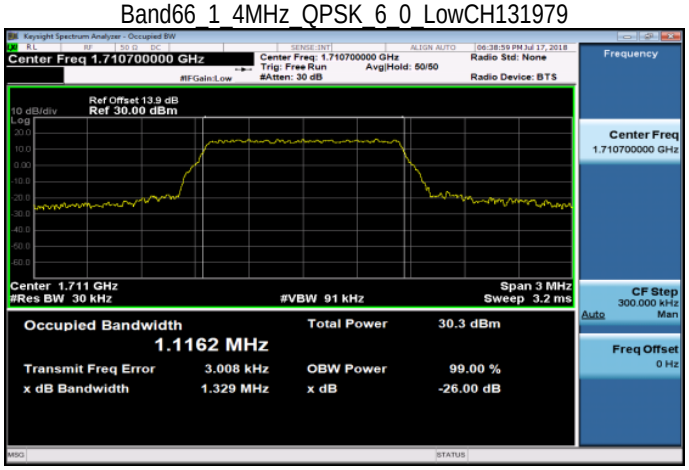
Band41_20MHz_16QAM_100_0_HighCH41490



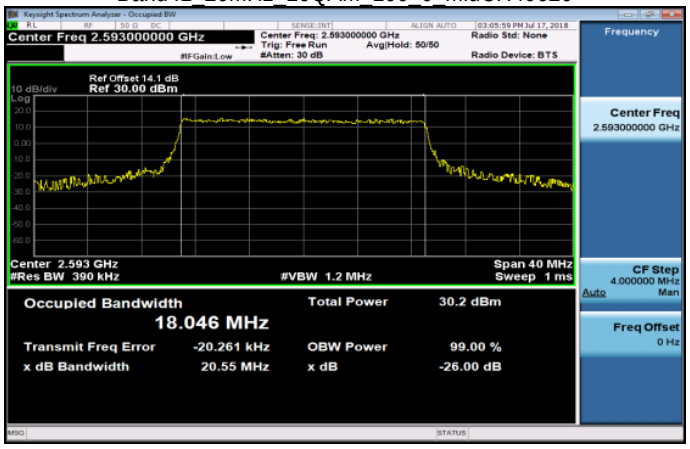
Band41_20MHz_16QAM_100_0_LowCH39750



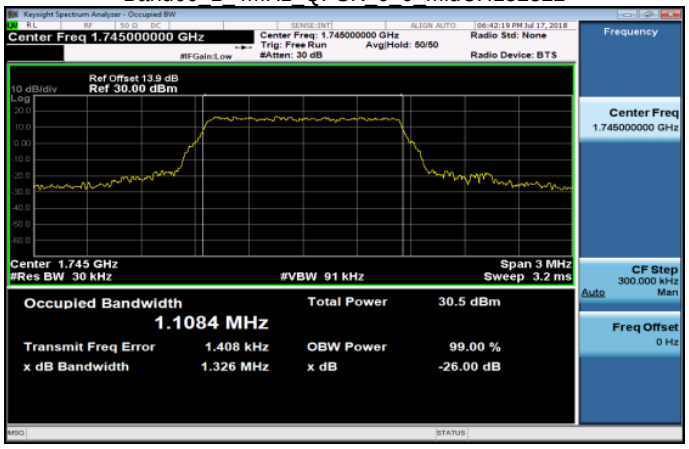
Band66_1_4MHz_QPSK_6_0_LowCH131979



Band41_20MHz_16QAM_100_0_MidCH40620



Band66_1_4MHz_QPSK_6_0_MidCH132322



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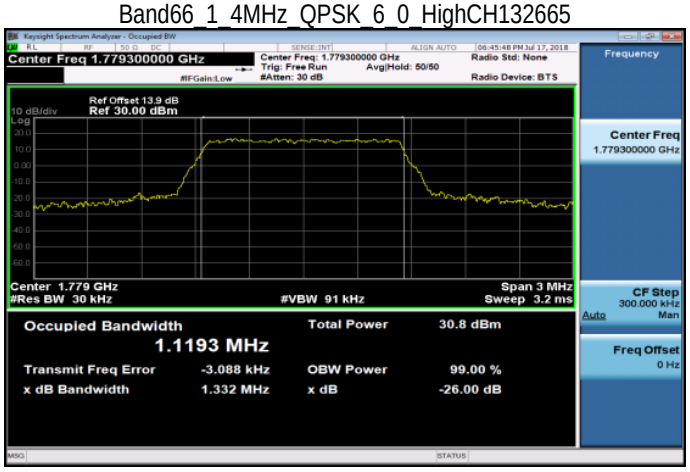
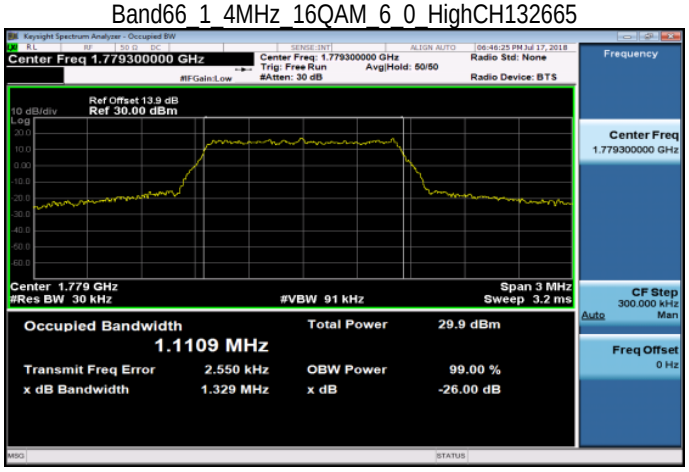
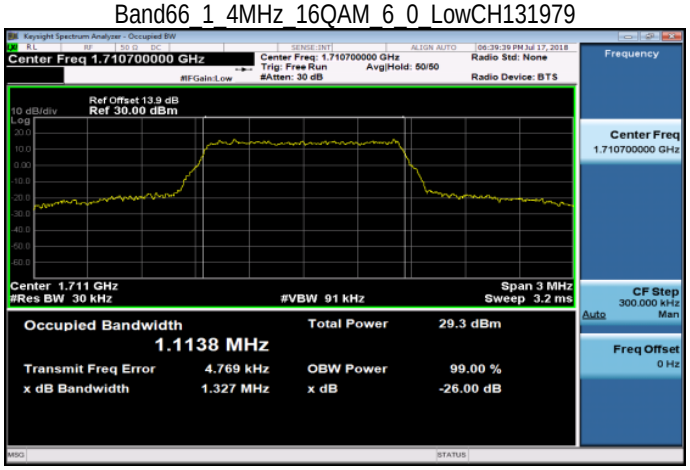
Band66_1_4MHz_QPSK_6_0_HighCH132665



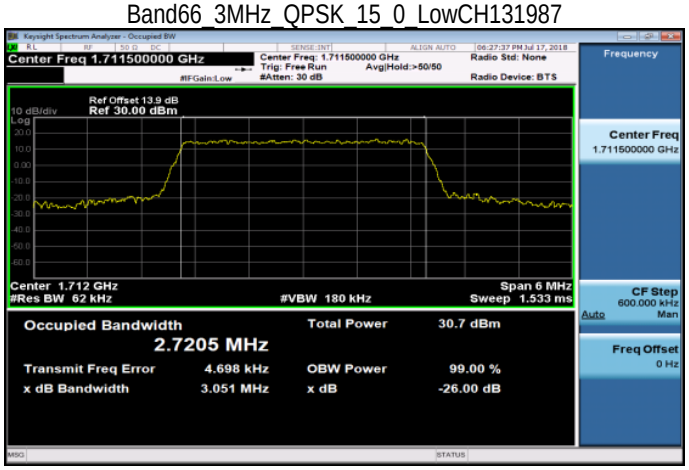
Band66_1_4MHz_16QAM_6_0_HighCH132665



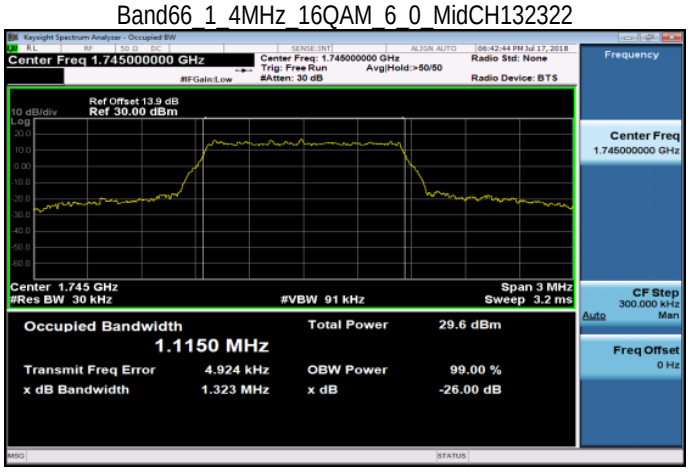
Band66_1_4MHz_16QAM_6_0_LowCH131979



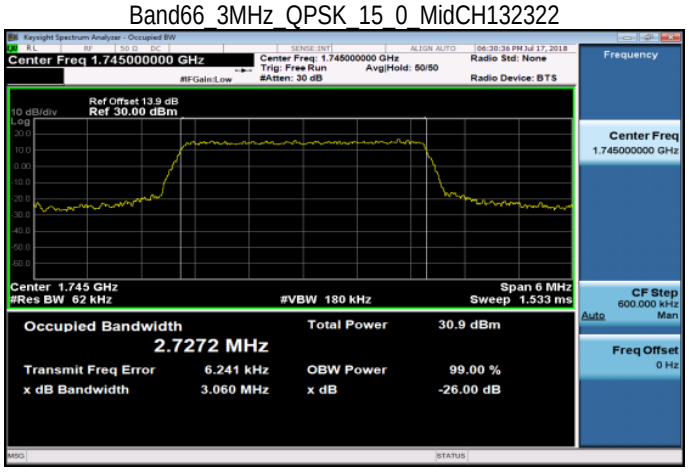
Band66_3MHz_QPSK_15_0_LowCH131987



Band66_1_4MHz_16QAM_6_0_MidCH132322



Band66_3MHz_QPSK_15_0_MidCH132322



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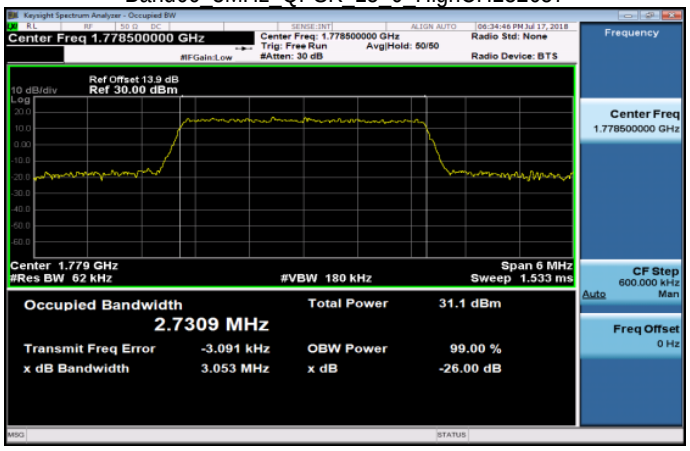
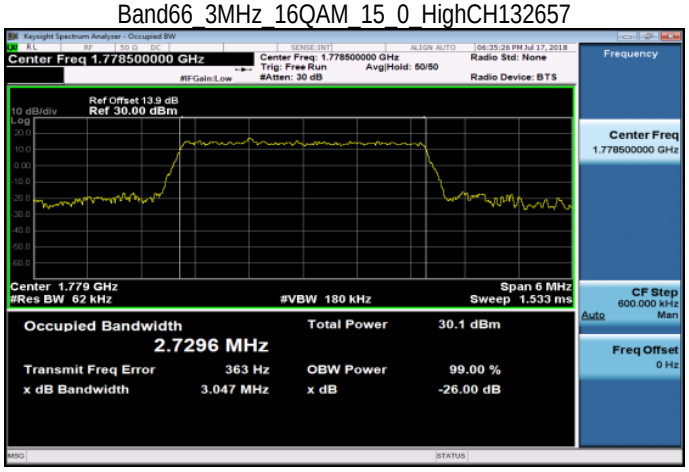
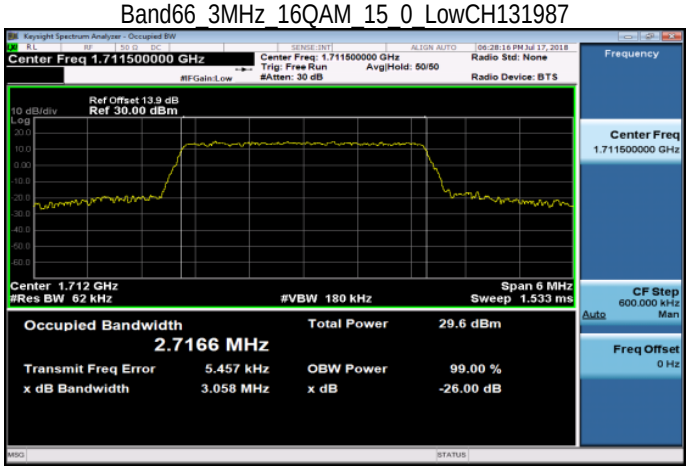
Band66_3MHz_QPSK_15_0_HighCH132657



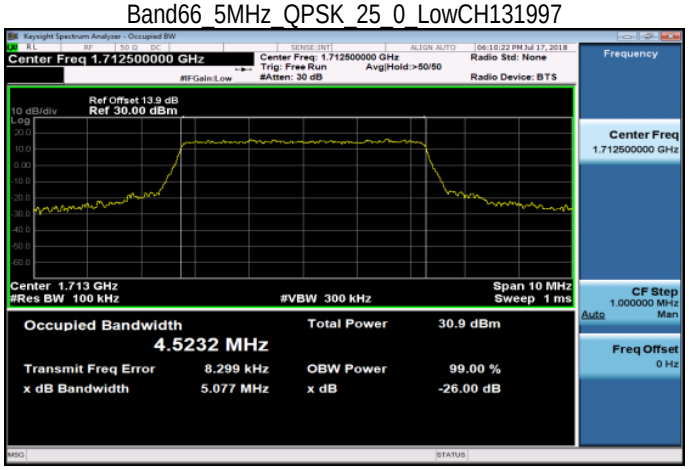
Band66_3MHz_16QAM_15_0_HighCH132657



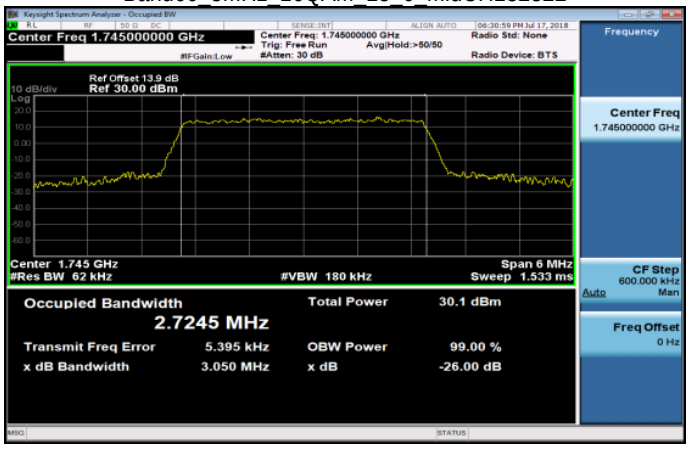
Band66_3MHz_16QAM_15_0_LowCH131987



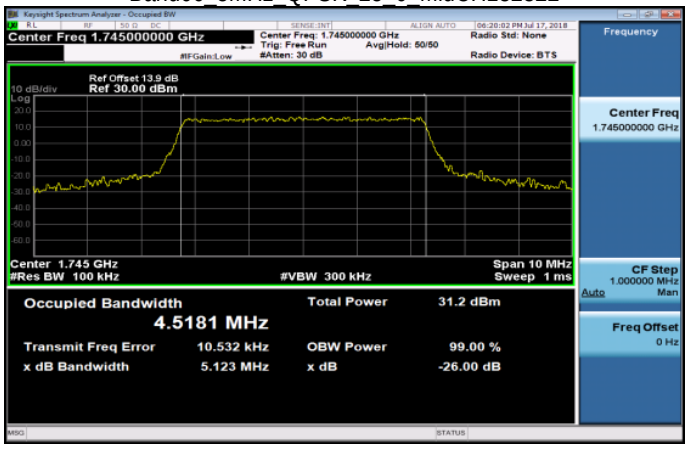
Band66_5MHz_QPSK_25_0_LowCH131997



Band66_3MHz_16QAM_15_0_MidCH132322



Band66_5MHz_QPSK_25_0_MidCH132322



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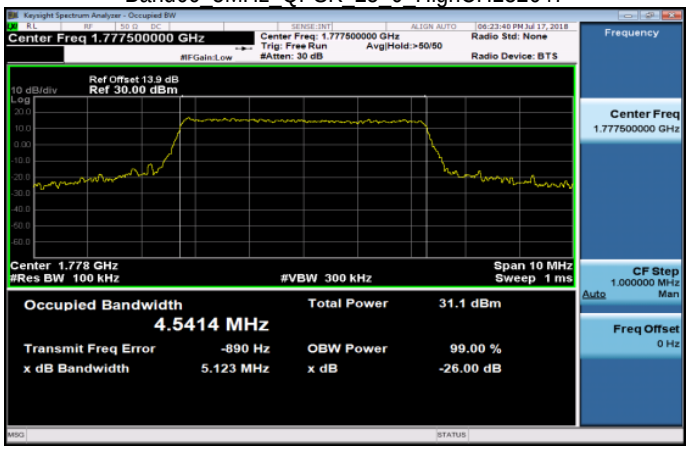
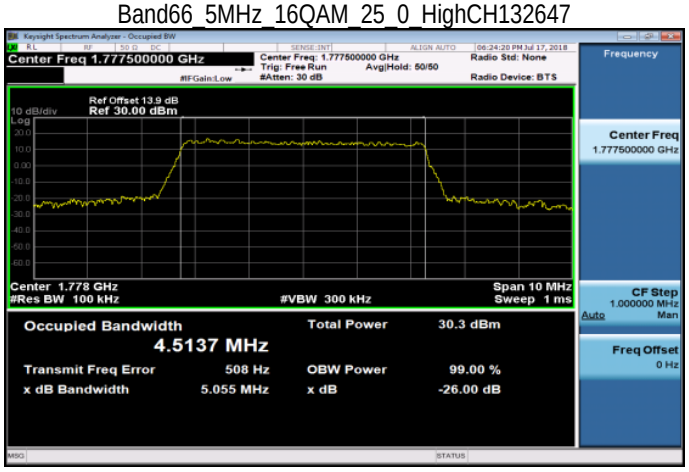
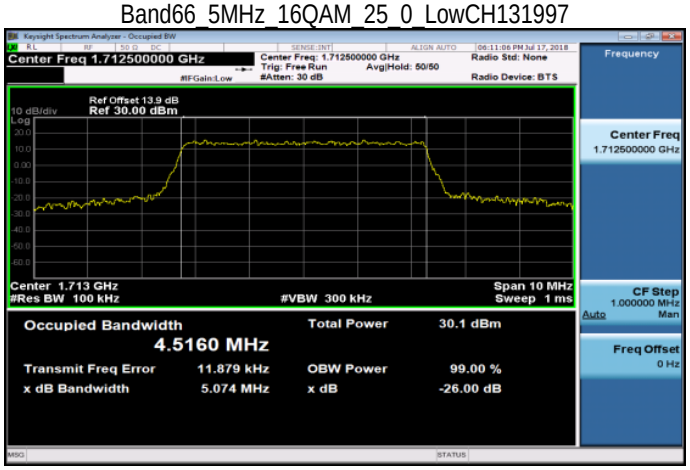
Band66_5MHz_QPSK_25_0_HighCH132647



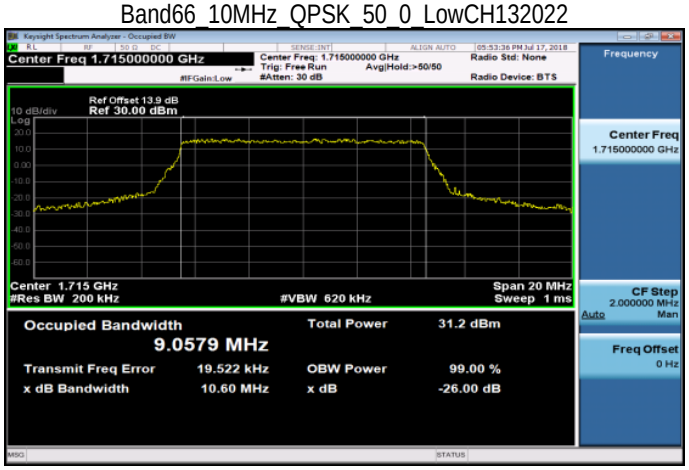
Band66_5MHz_16QAM_25_0_HighCH132647



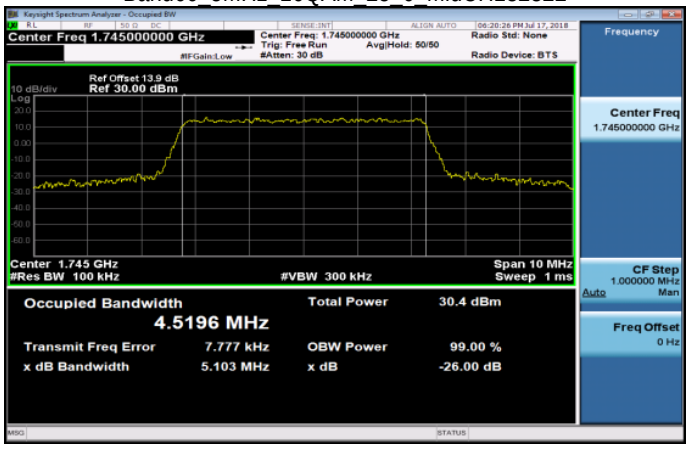
Band66_5MHz_16QAM_25_0_LowCH131997



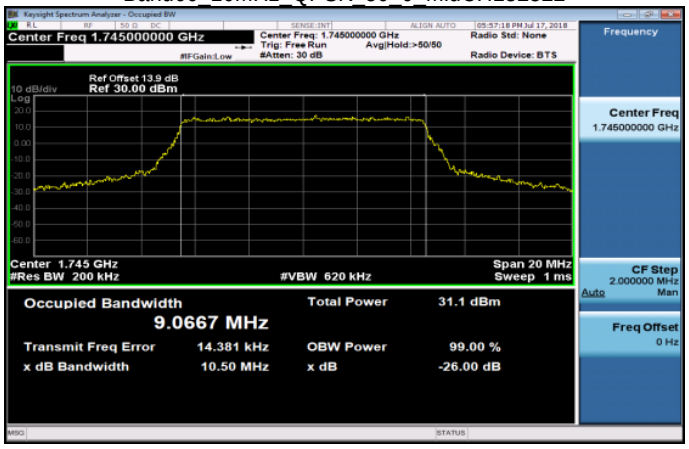
Band66_10MHz_QPSK_50_0_LowCH132022



Band66_5MHz_16QAM_25_0_MidCH132322



Band66_10MHz_QPSK_50_0_MidCH132322



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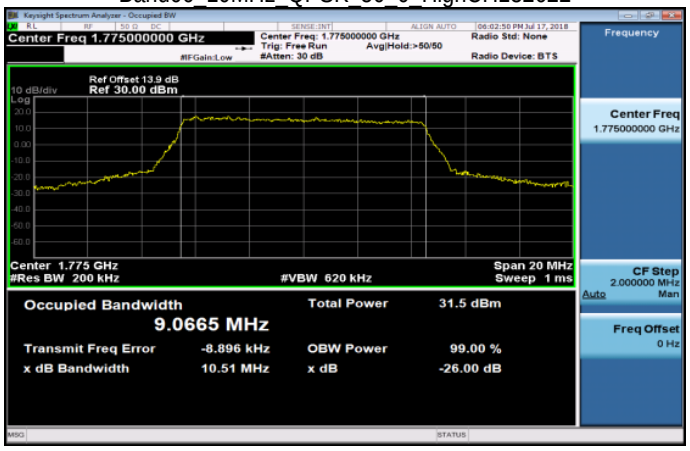
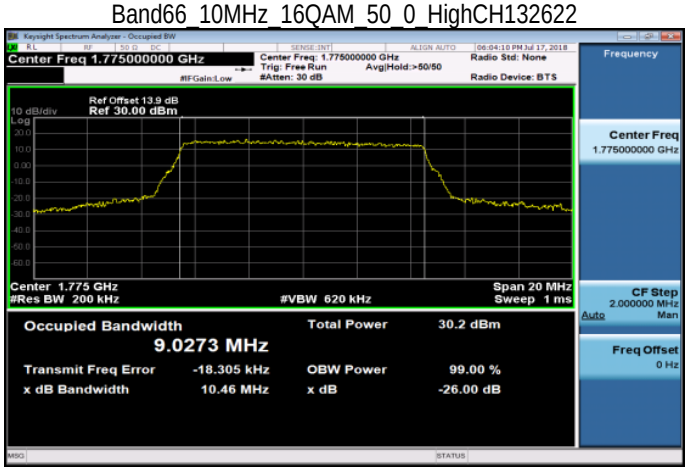
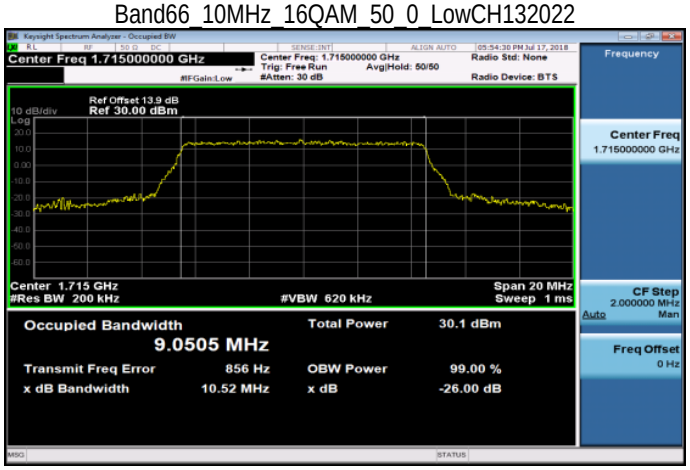
Band66_10MHz_QPSK_50_0_HighCH132622



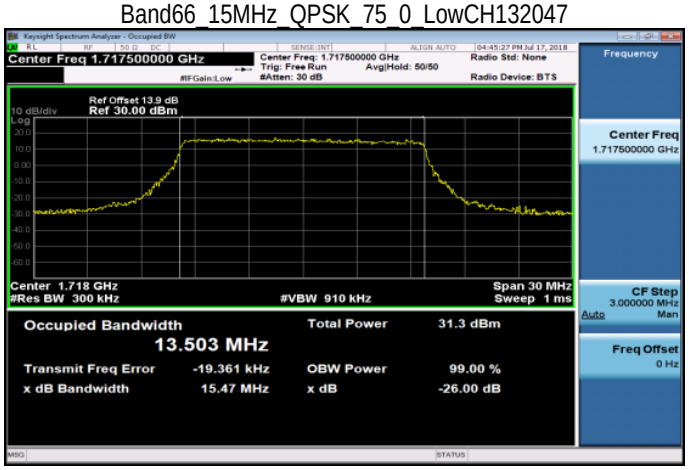
Band66_10MHz_16QAM_50_0_HighCH132622



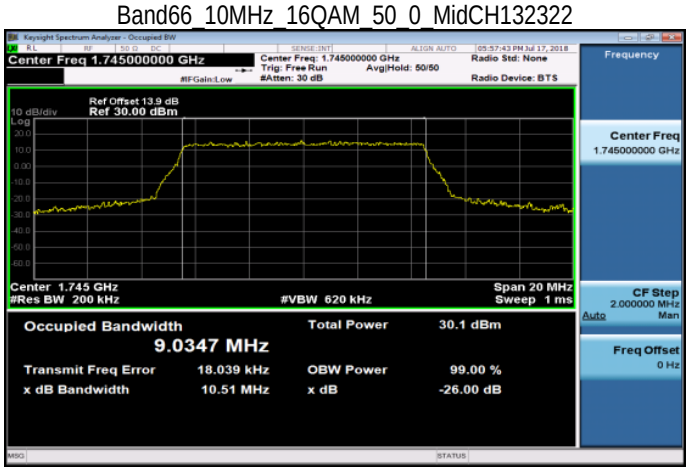
Band66_10MHz_16QAM_50_0_LowCH132022



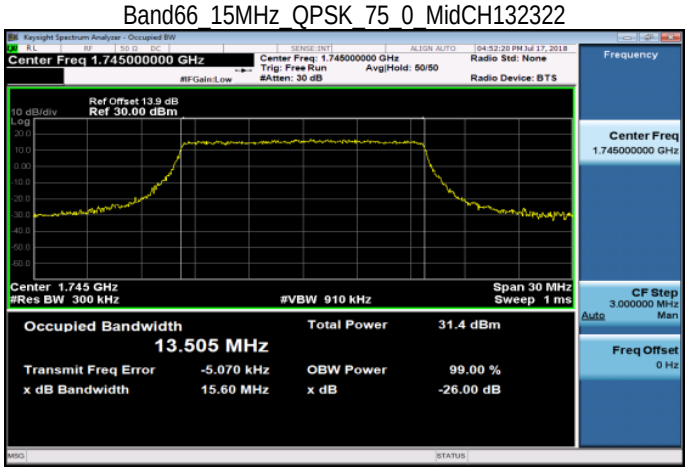
Band66_15MHz_QPSK_75_0_LowCH132047



Band66_10MHz_16QAM_50_0_MidCH132322



Band66_15MHz_QPSK_75_0_MidCH132322



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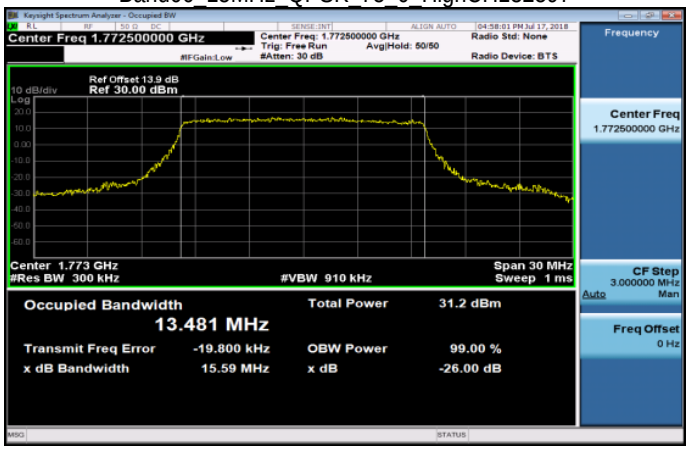
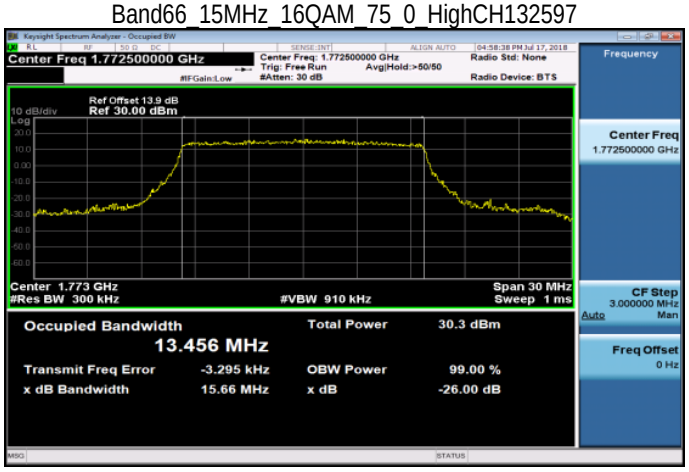
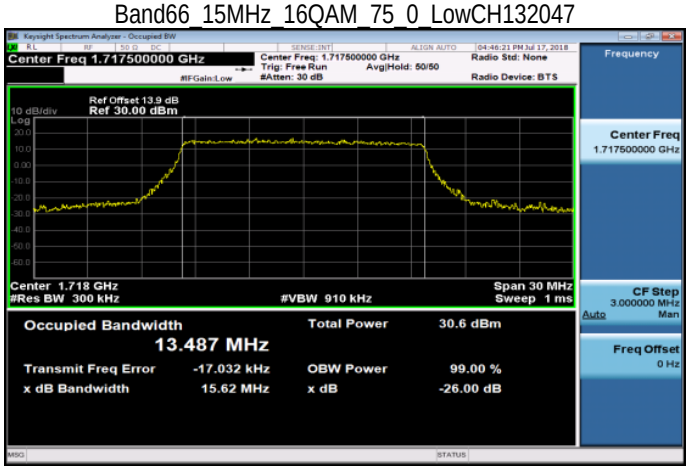
Band66_15MHz_QPSK_75_0_HighCH132597



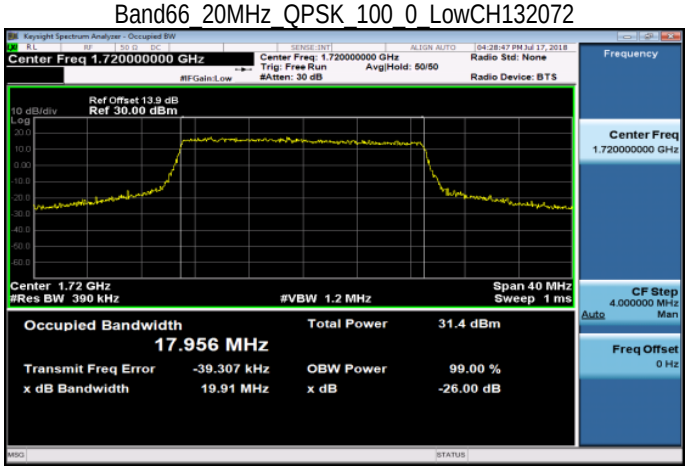
Band66_15MHz_16QAM_75_0_HighCH132597



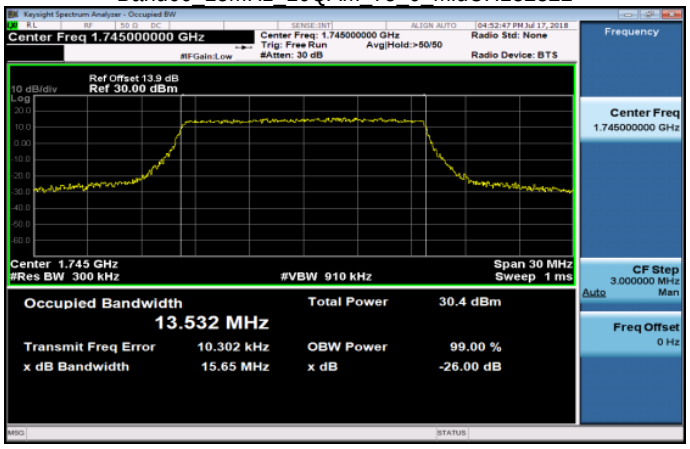
Band66_15MHz_16QAM_75_0_LowCH132047



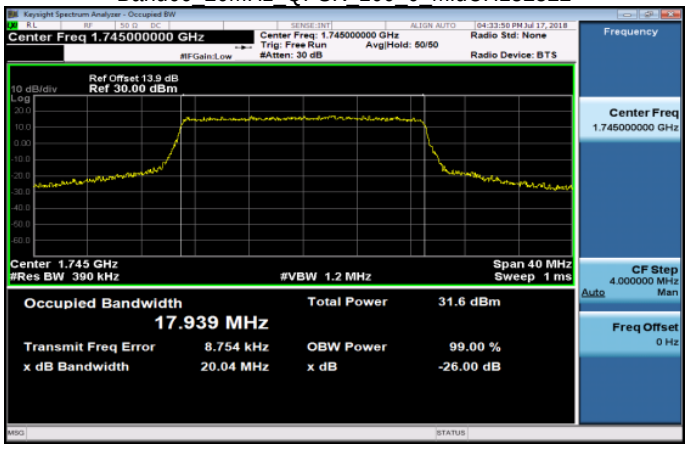
Band66_20MHz_QPSK_100_0_LowCH132072



Band66_15MHz_16QAM_75_0_MidCH132322



Band66_20MHz_QPSK_100_0_MidCH132322



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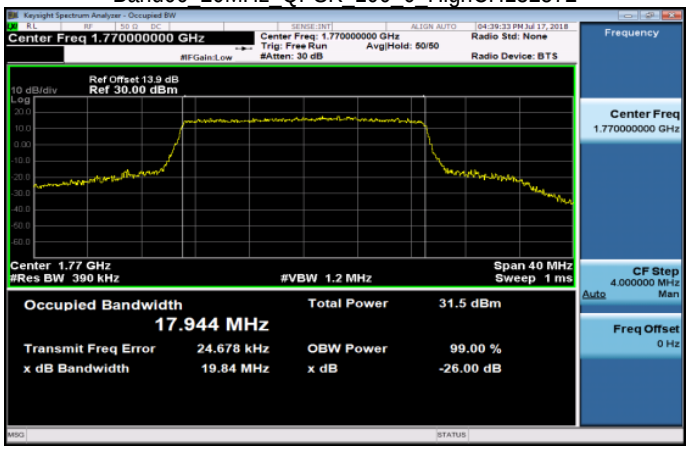
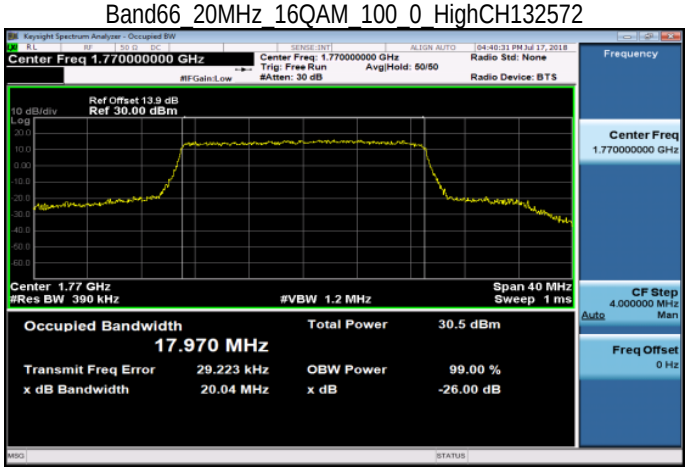
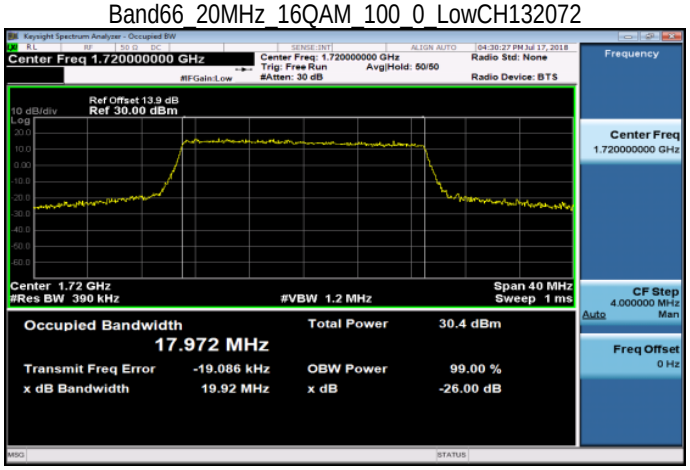
Band66_20MHz_QPSK_100_0_HighCH132572



Band66_20MHz_16QAM_100_0_HighCH132572



Band66_20MHz_16QAM_100_0_LowCH132072



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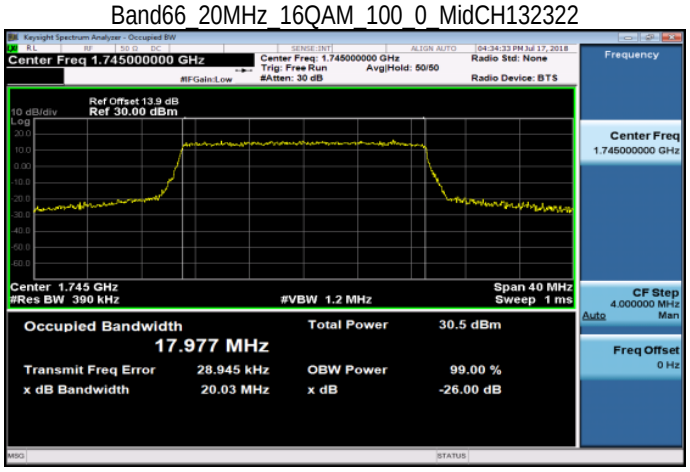

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8. OUT OF BAND EMISSION AT ANTENNA TERMINALS

8.1. Standard Applicable

FCC §22.917(a), §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)

(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;

§27.53 (f) For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to −70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and −80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

FCC §27.53(c) (5) & FCC §27.53(g)

Compliance 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.

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FCC 27.53(a)(4)

For mobile and portable stations operating in the 2305-2315 MHz and 2350-2360 MHz bands:

(i) By a factor of not less than: 43 + 10 log (P) dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than 55 + 10 log (P) dB on all frequencies between 2320 and 2324 MHz and on all frequencies between 2341 and 2345 MHz, not less than 61 + 10 log (P) dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2337 and 2341 MHz, and not less than 67 + 10 log (P) dB on all frequencies between 2328 and 2337 MHz;

(ii) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2300 and 2305 MHz, 55 + 10 log (P) dB on all frequencies between 2296 and 2300 MHz, 61 + 10 log (P) dB on all frequencies between 2292 and 2296 MHz, 67 + 10 log (P) dB on all frequencies between 2288 and 2292 MHz, and 70 + 10 log (P) dB below 2288 MHz;

(iii) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2360 and 2365 MHz, and not less than 70 + 10 log (P) dB above 2365 MHz.

FCC §27.53(h) (3)

Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

FCC §27.53(m) (4) (6)

For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

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Measurement procedure. Compliance with these rules is based on the use of measurement nstrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed; for mobile digital stations, in the 1 megahertz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed, except when the 1 megahertz band is 2495-2496 MHz, in which case a resolution bandwidth of at least one percent may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 megahertz or 1 percent of emission bandwidth, as specified; or 1 megahertz or 2 percent for mobile digital stations, except in the band 2495-2496 MHz). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power. With respect to television operations, measurements must be made of the separate visual and aural operating powers at sufficiently frequent intervals to ensure compliance with the rules.

§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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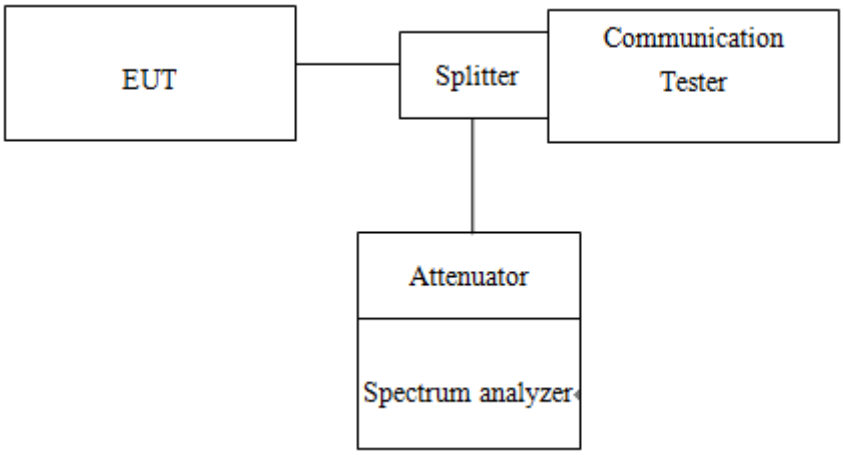
8.2. Test SET-UP



8.3. Measurement Procedure

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.

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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8.4. Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	N9010A	MY53400256	10/30/2017	10/29/2018
Radio Communication Analyer	Anritsu	MT8820C	6201107337	06/09/2018	06/08/2019
DC Power Supply	Agilent	E3640A	MY53130054	09/04/2017	09/03/2018
Attenuator	Marvelous	MVE2213-10	RF30	12/26/2017	12/25/2018
Splitter	RF-LAMBAD	RFLT2W1G18G	RF35	12/26/2017	12/25/2018
Spectrum Analyzer	Agilent	N9010A	MY53400256	10/30/2017	10/29/2018
Radio Communication Analyer	Anritsu	MT8820C	6201107337	06/09/2018	06/08/2019
DC Power Supply	Agilent	E3640A	MY53130054	09/04/2017	09/03/2018

8.5. Measurement Result:

Refer to next pages.

NOTE: The occurrence of the spike on the conducted emission is the signal of the fundamental emission.

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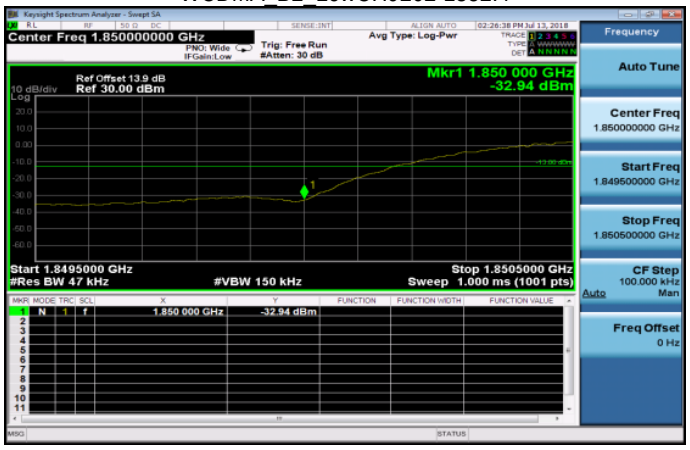

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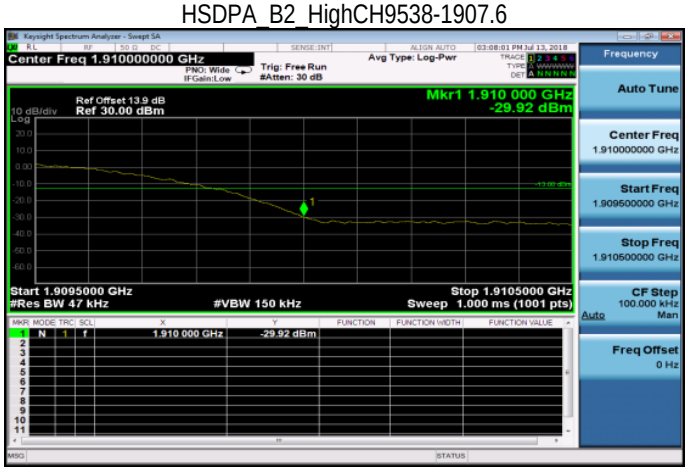

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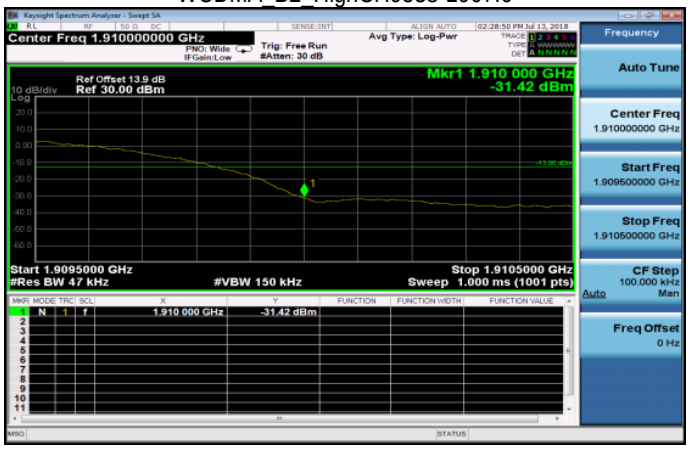

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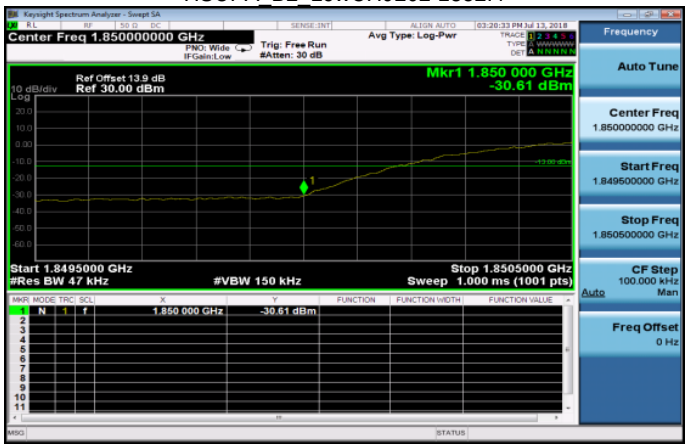

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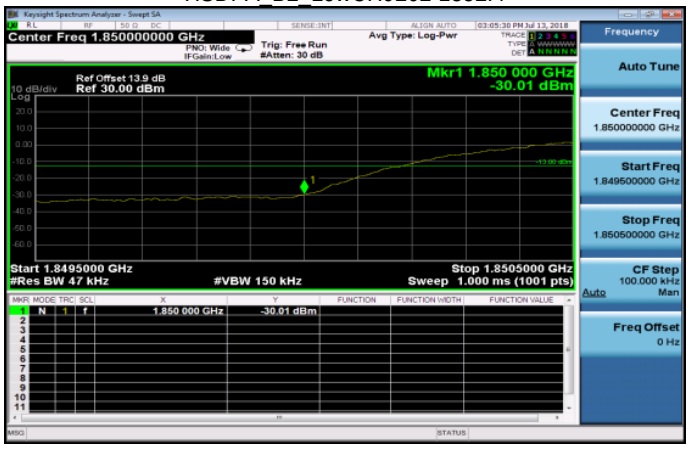

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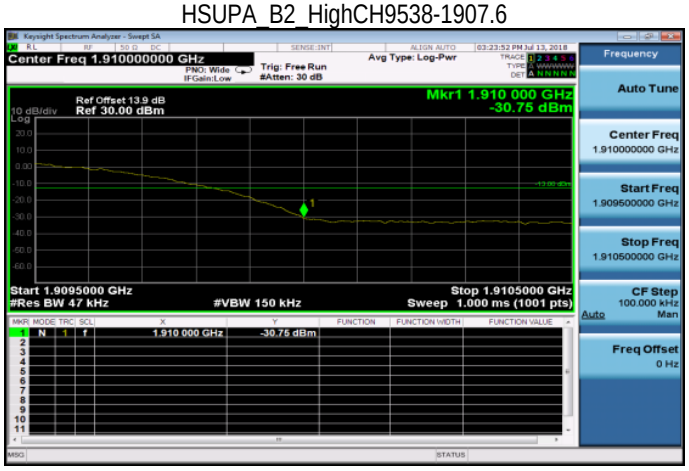

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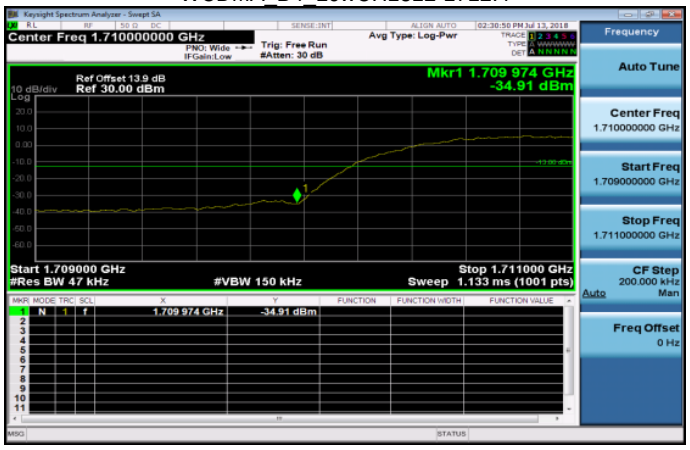

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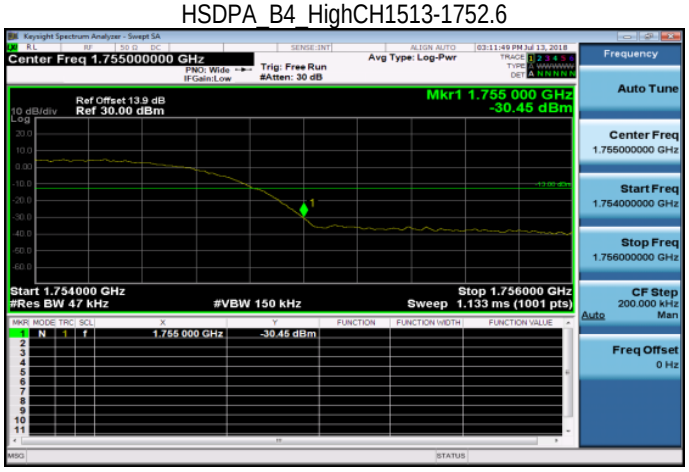

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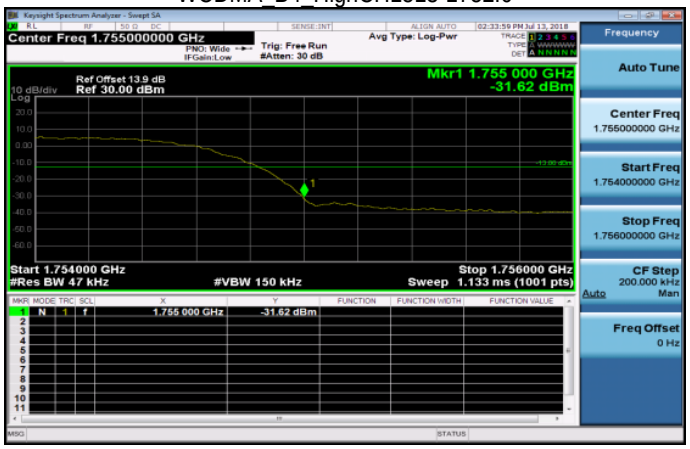

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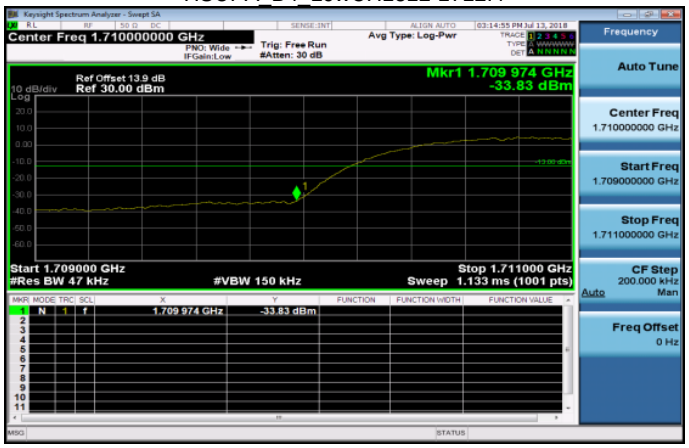

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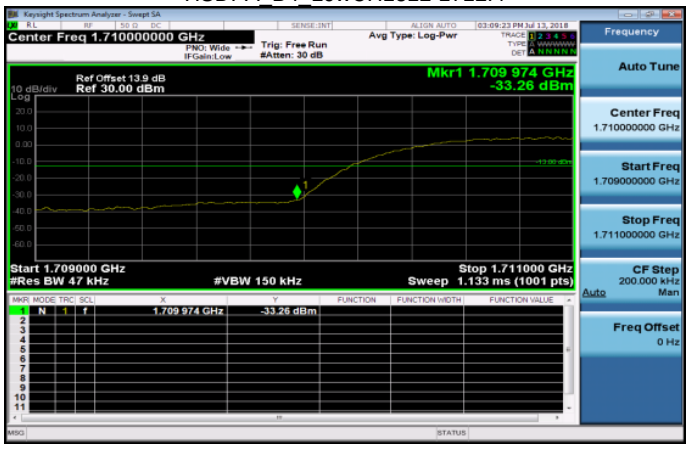

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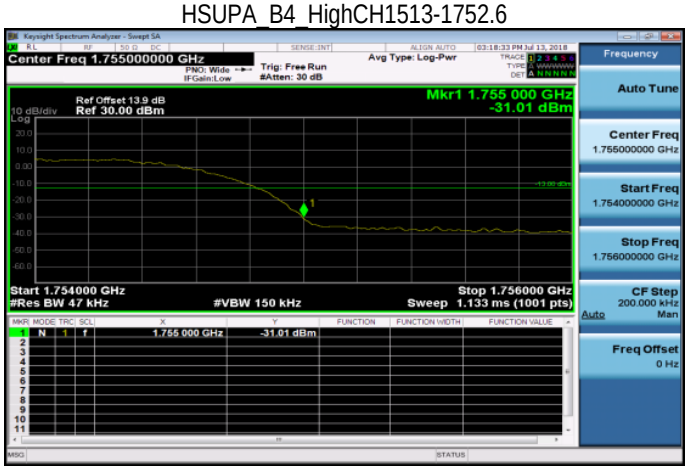

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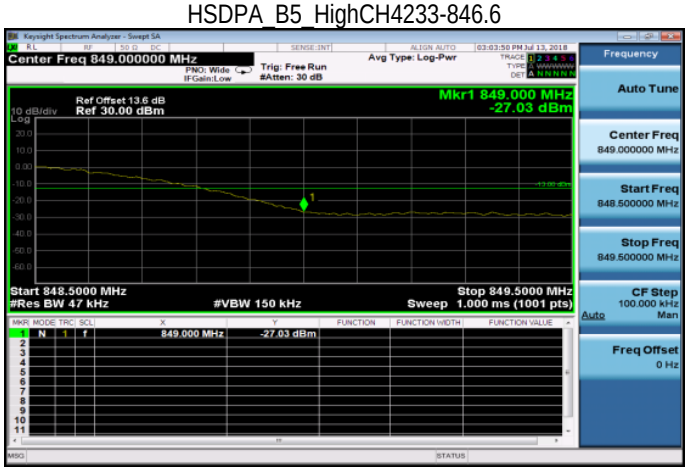

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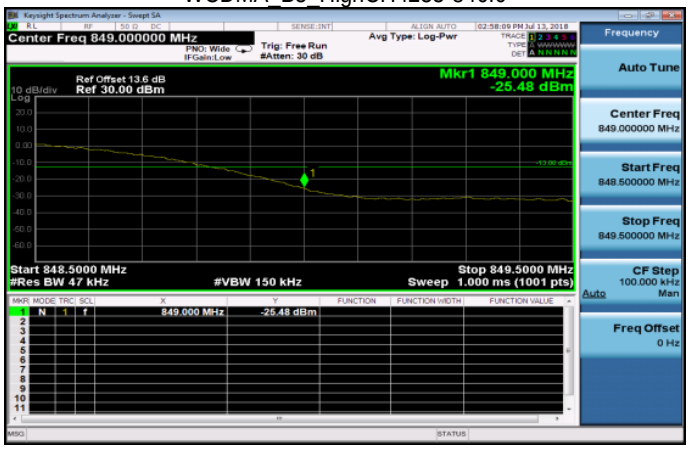

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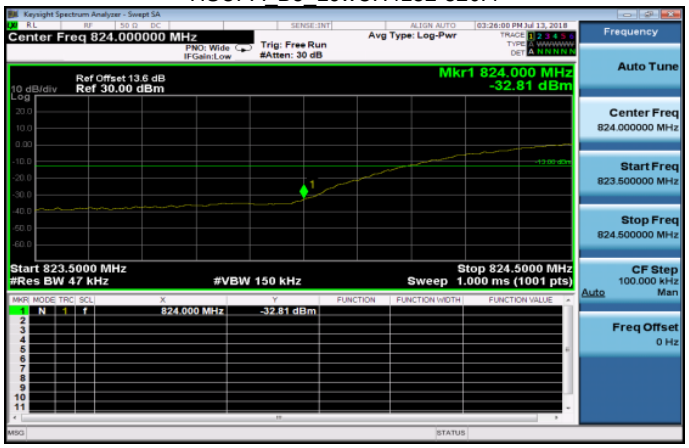

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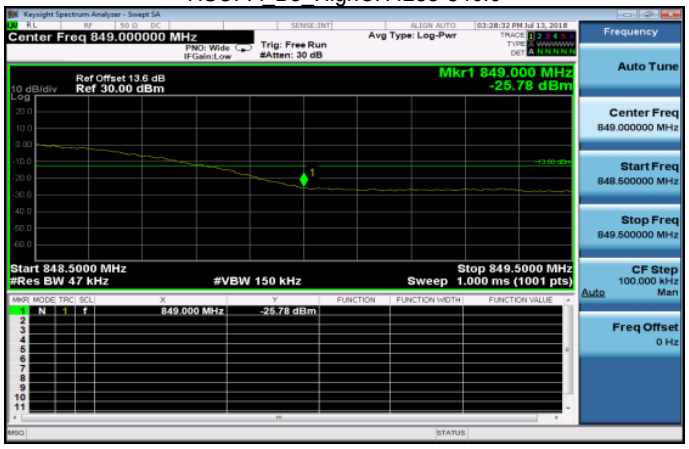

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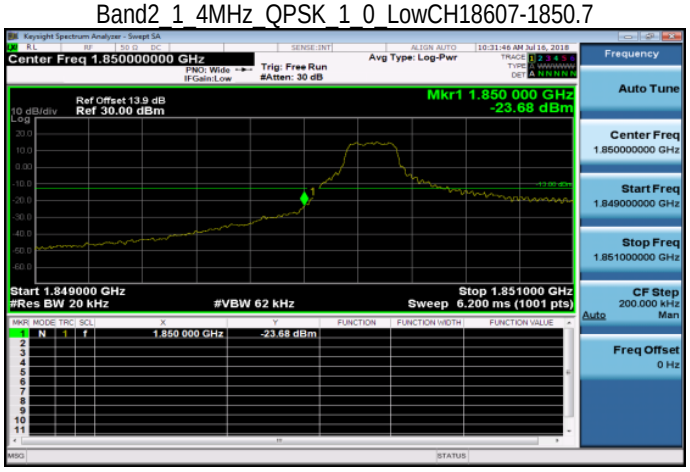
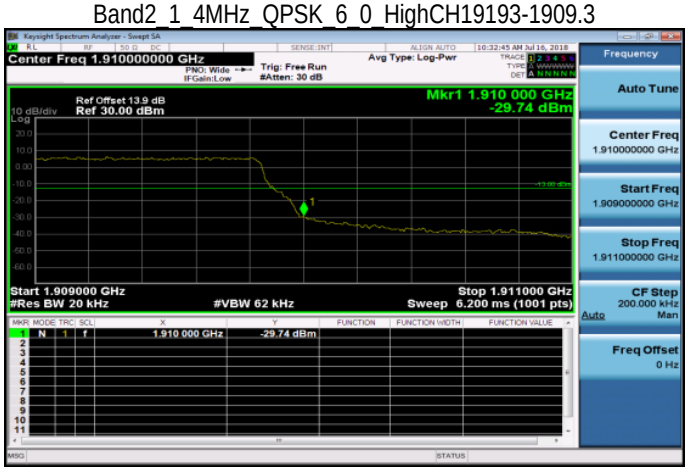
Band2_1_4MHz_QPSK_1_0_LowCH18607-1850.7



Band2_1_4MHz_QPSK_6_0_HighCH19193-1909.3



Band2_1_4MHz_QPSK_1_5_HighCH19193-1909.3

Band2_3MHz_QPSK_1_0_LowCH18615-1851.5

Band2_1_4MHz_QPSK_6_0_LowCH18607-1850.7

Band2_3MHz_QPSK_1_14_HighCH19185-1908.5

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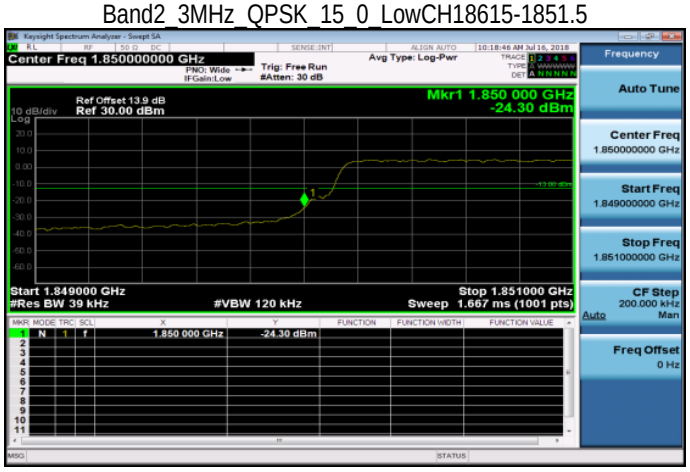
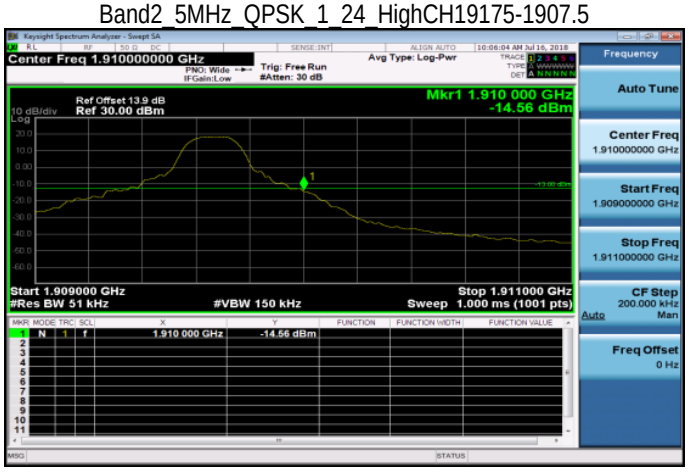
Band2_3MHz_QPSK_15_0_LowCH18615-1851.5

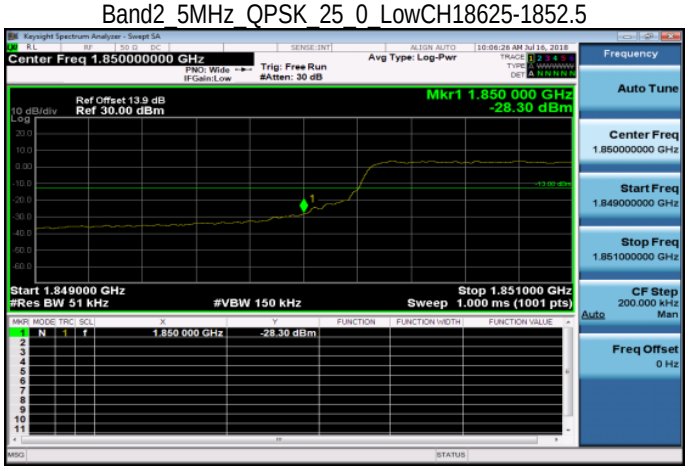


Band2_5MHz_QPSK_1_24_HighCH19175-1907.5

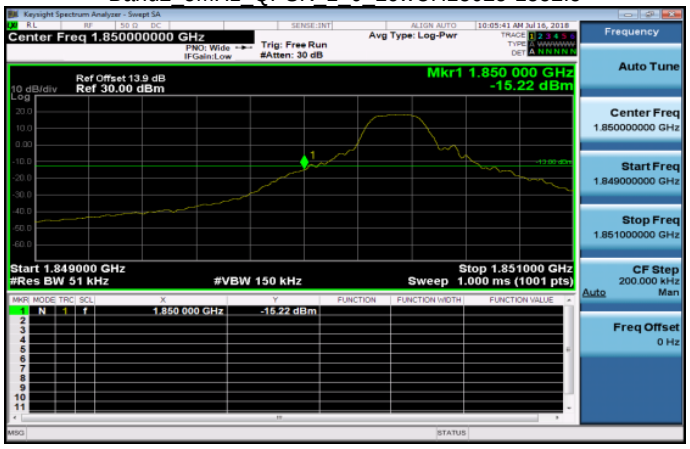


Band2_3MHz_QPSK_15_0_HighCH19185-1908.5

Band2_5MHz_QPSK_25_0_LowCH18625-1852.5



Band2_5MHz_QPSK_1_0_LowCH18625-1852.5



Band2_5MHz_QPSK_25_0_HighCH19175-1907.5

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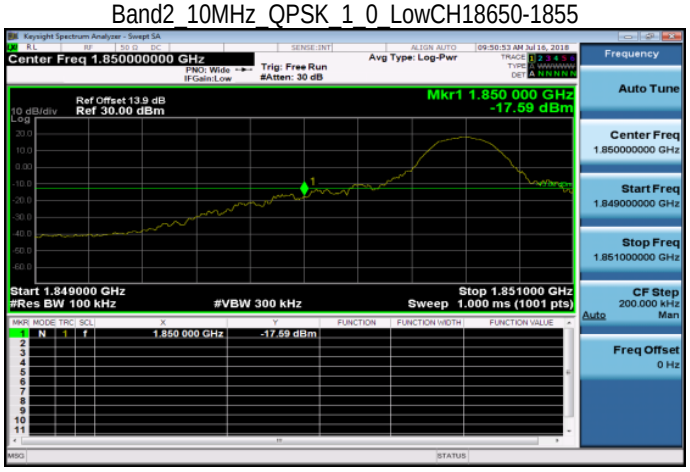
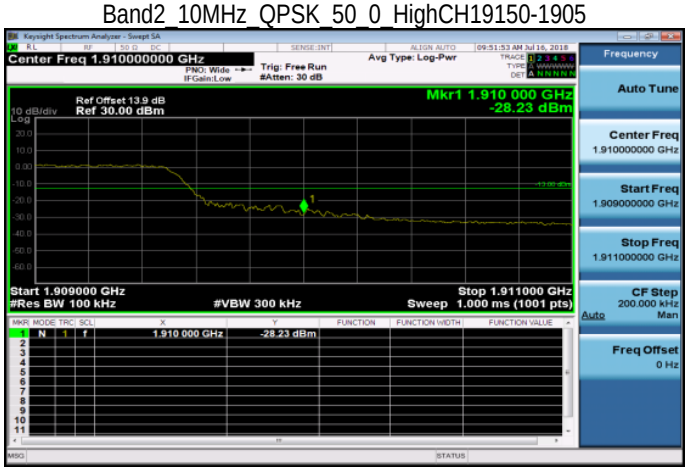
Band2_10MHz_QPSK_1_0_LowCH18650-1855

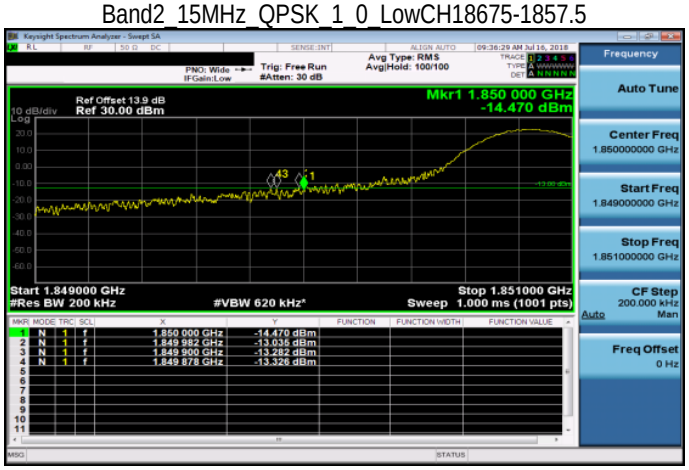


Band2_10MHz_QPSK_50_0_HighCH19150-1905



Band2_10MHz_QPSK_1_49_HighCH19150-1905

Band2_15MHz_QPSK_1_0_LowCH18675-1857.5



Band2_10MHz_QPSK_50_0_LowCH18650-1855

Band2_15MHz_QPSK_1_74_HighCH19125-1902.5

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