

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(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 than $43 + 10 \log (P)$ 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.

Measurement procedure. Compliance with these rules is based on the use of measurement instrumentation 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.

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§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 $116 \log_{10}(f/6.1)$ decibels or $50 + 10 \log_{10}(P)$ 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 $43 + 10 \log_{10}(P)$ 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.

§90.543 Emission limitations

(e) For operations in the 758-768 MHz and the 788-798 MHz bands, 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:

(1) On all frequencies between 769-775 MHz and 799-805 MHz, by a factor not less than $76 + 10 \log(P)$ dB in a 6.25 kHz band segment, for base and fixed stations.

(2) On all frequencies between 769-775 MHz and 799-805 MHz, by a factor not less than $65 + 10 \log(P)$ dB in a 6.25 kHz band segment, for mobile and portable stations.

(3) On any frequency between 775-788 MHz, above 805 MHz, and below 758 MHz, by at least $43 + 10 \log(P)$ dB.

(4) Compliance with the provisions of paragraphs (e)(1) and (2) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.

(5) Compliance with the provisions of paragraph (e)(3) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of 30 kHz may be employed.

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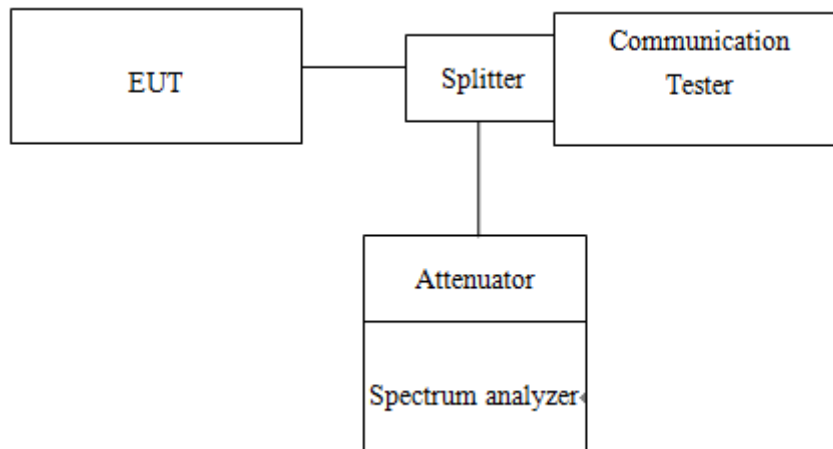
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8.2. Test SET-UP



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 $RBW \geq 1\% \text{ EBW}$.
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	MY51440113	2018/06/20	2019/06/19
Radio Communication Analyer	Anritsu	MT8820C	6201107337	2018/06/15	2019/06/14
DC Power Supply	Agilent	E3640A	MY53140006	2018/05/30	2019/05/29
Attenuator	Marvelous	MVE2213-10	RF30	2017/12/26	2018/12/25
Splitter	Woken	DOM35LW1A2	RF36	2017/12/26	2018/12/25
DC Block	PASTERNAK	PE8210	RF29	2017/12/26	2018/12/25

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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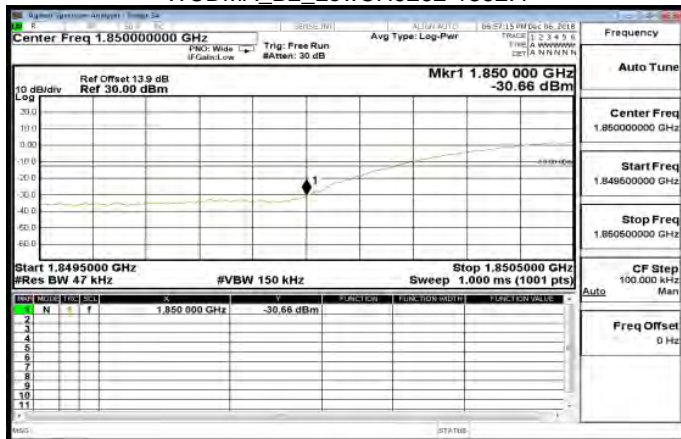
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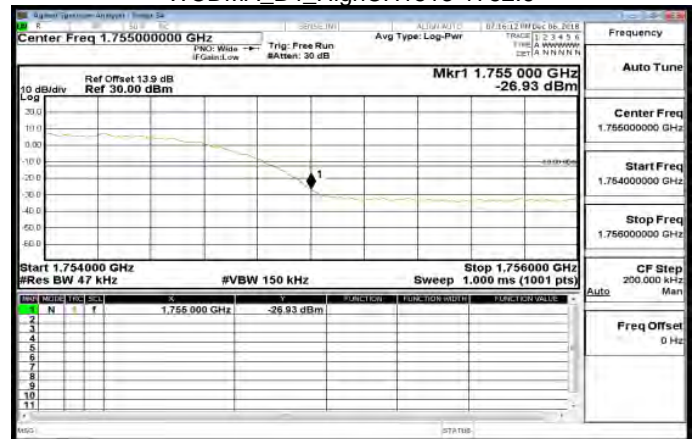
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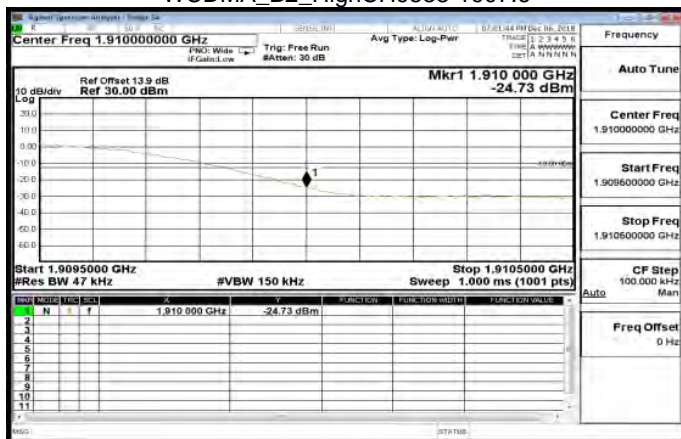
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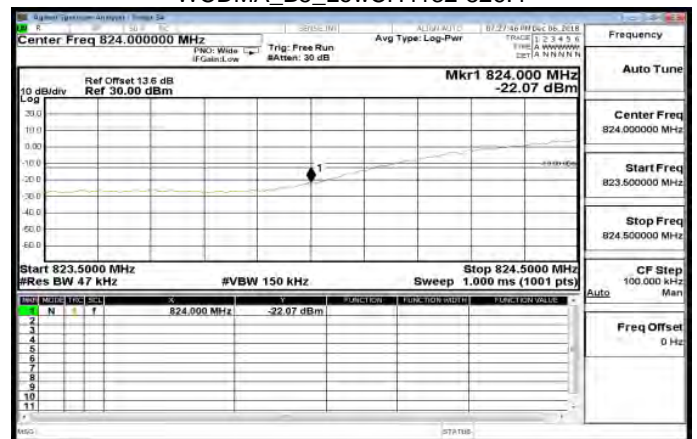
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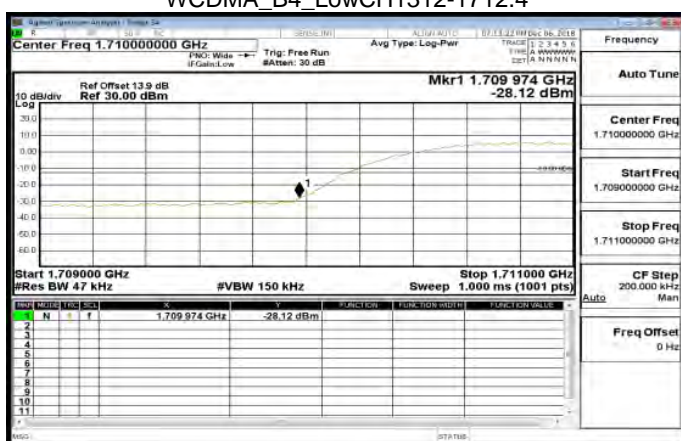
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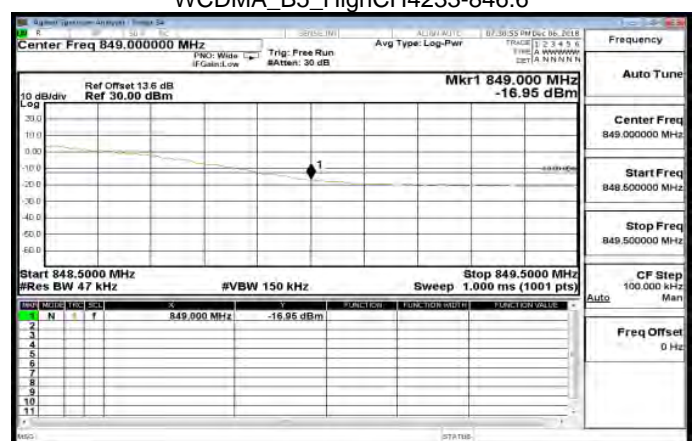
WCDMA_B5_LowCH4132-826.4



WCDMA_B4_LowCH1312-1712.4



WCDMA_B5_HighCH4233-846.6



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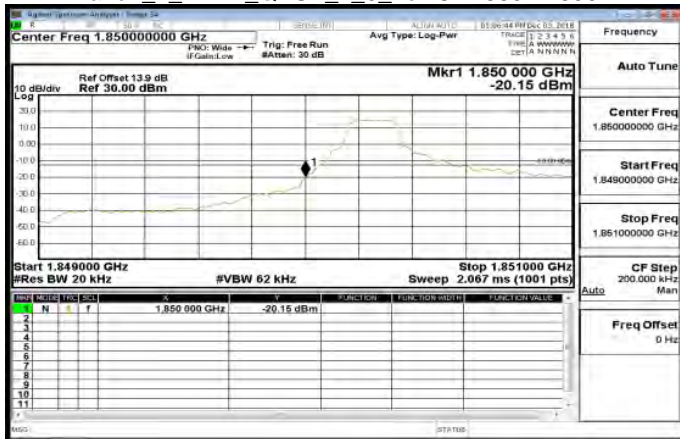
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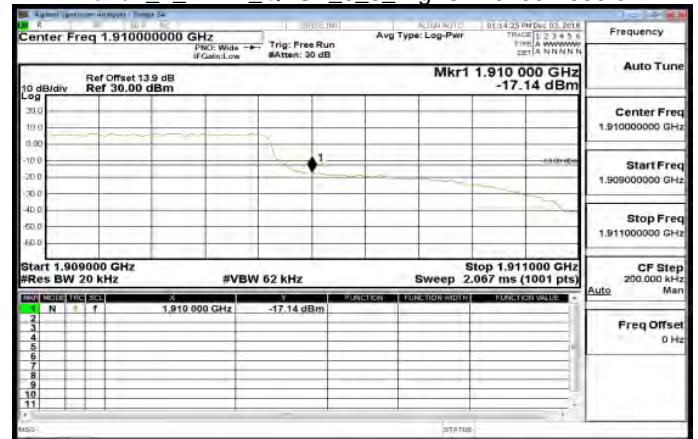
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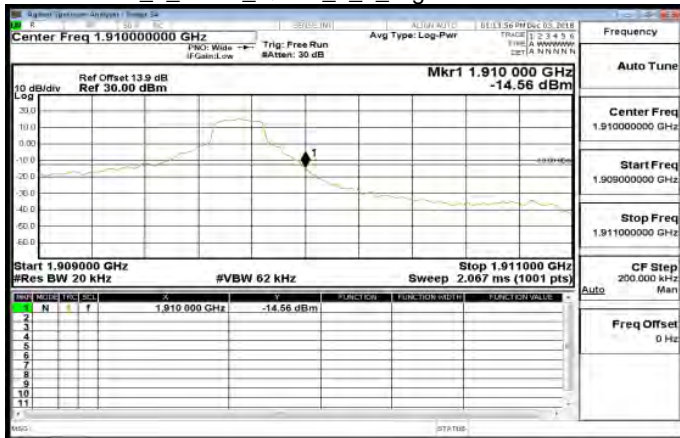
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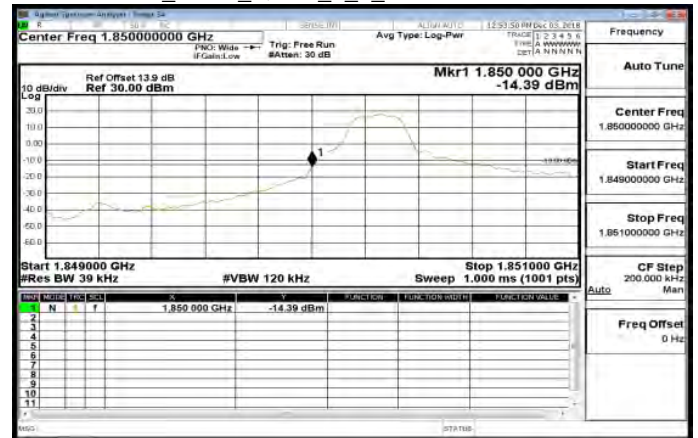
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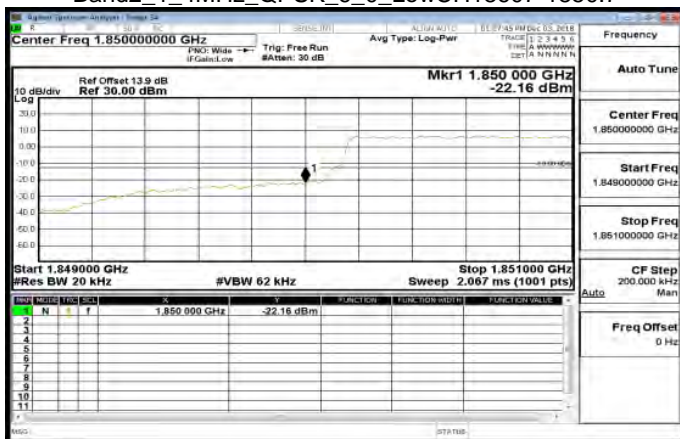
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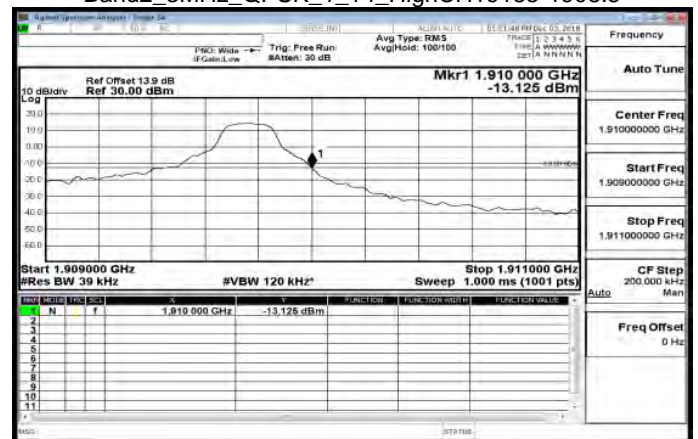
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Band2_1_4MHz_QPSK_6_0_LowCH18607-1850.7



Band2_3MHz_QPSK_1_14_HighCH19185-1908.5



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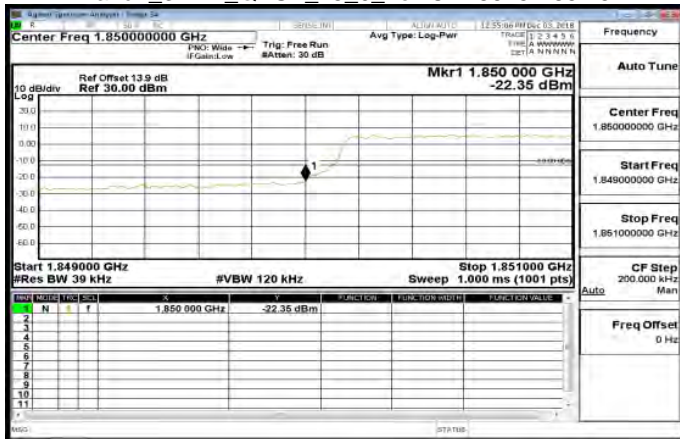
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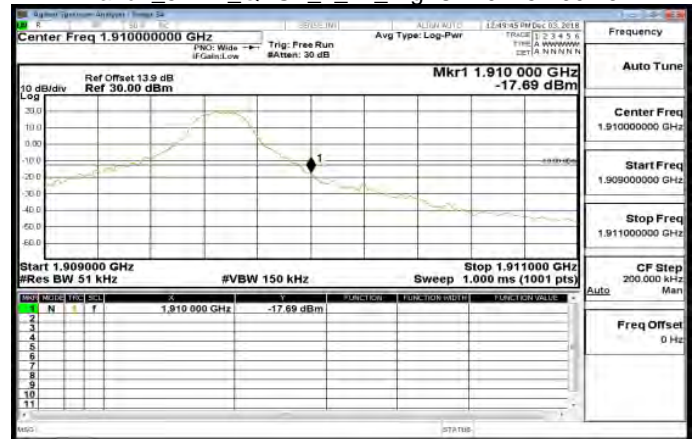
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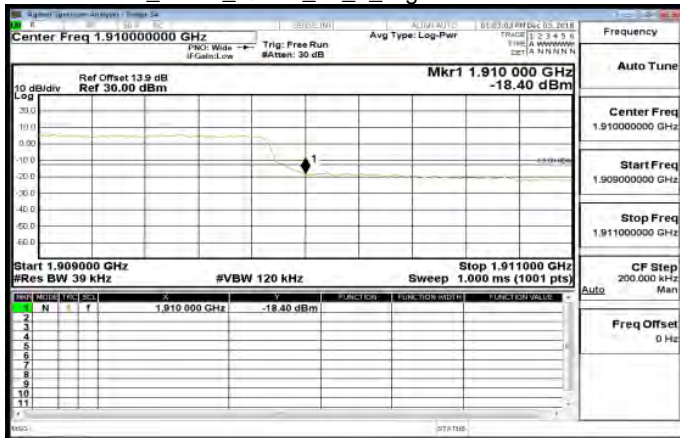
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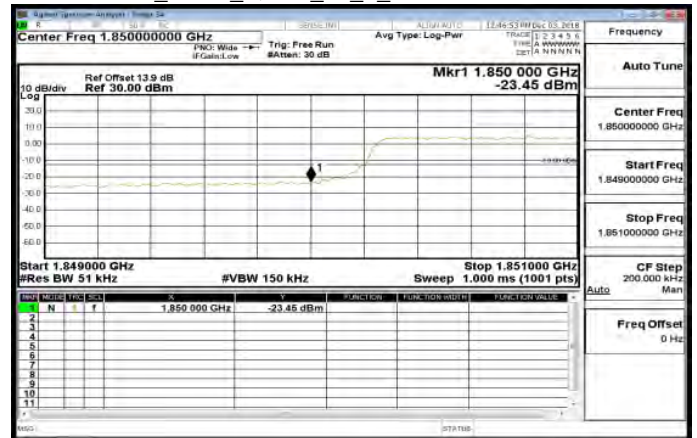
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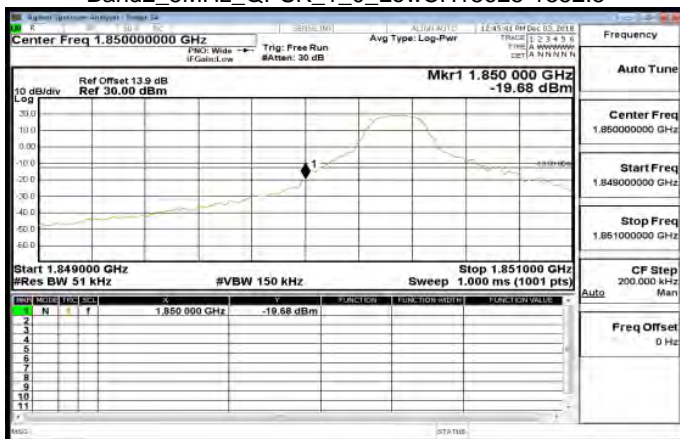
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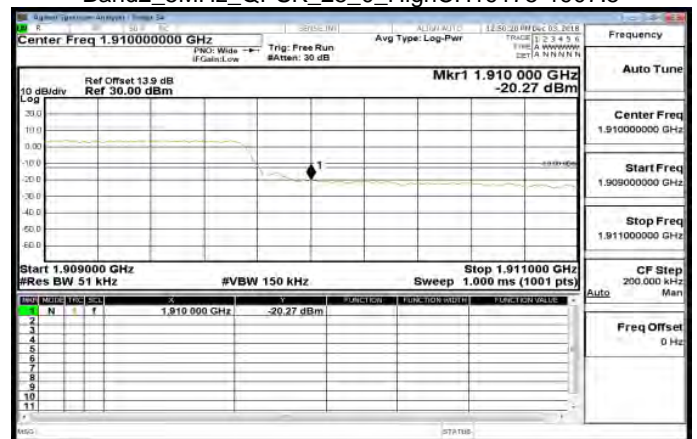
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Band2_5MHz_QPSK_25_0_HighCH19175-1907.5



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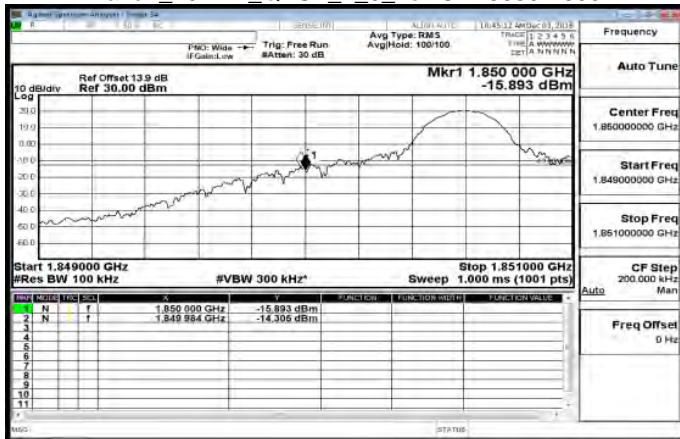
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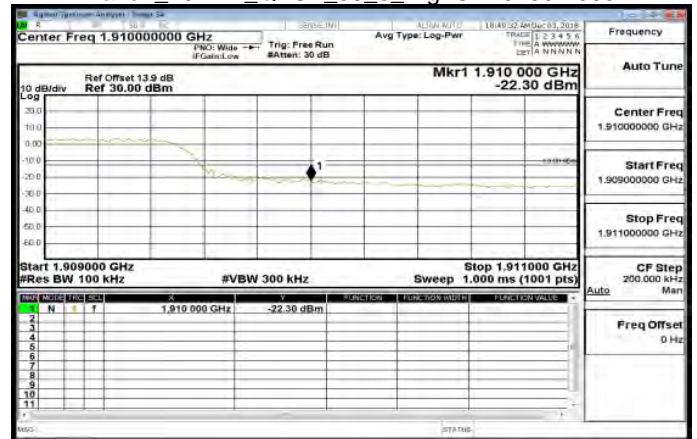
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Band2_10MHz_QPSK_1_0_LowCH18650-1855



Band2_10MHz_QPSK_50_0_HighCH19150-1905



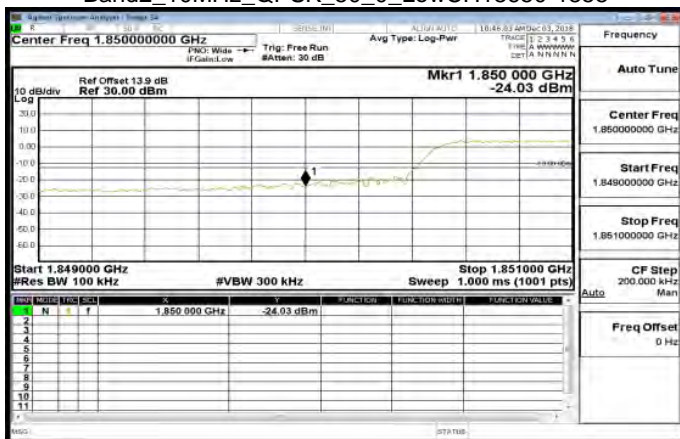
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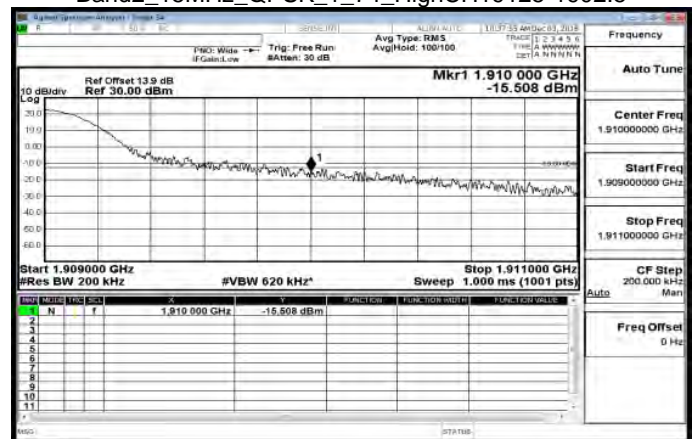
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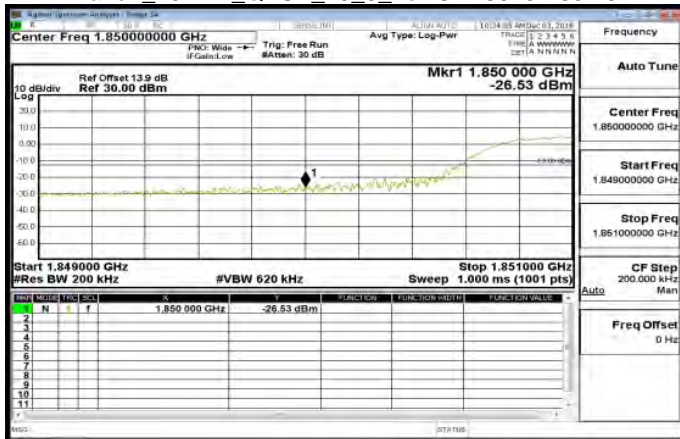
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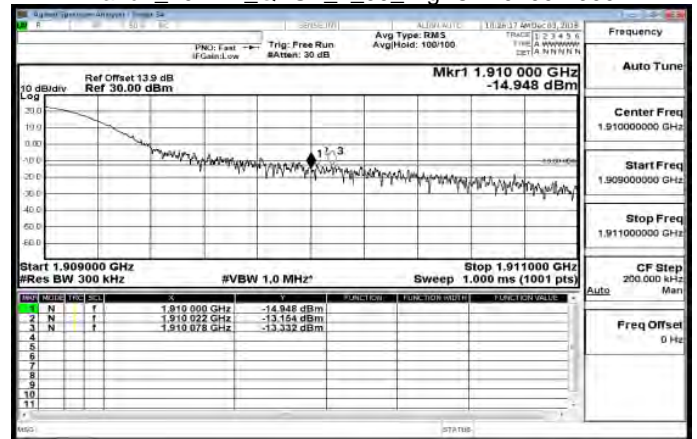
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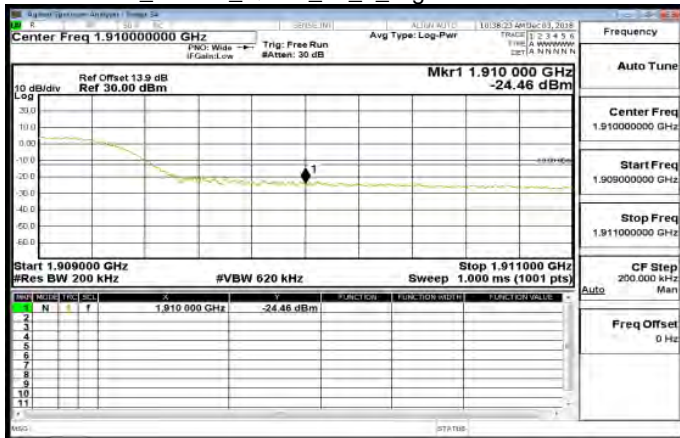
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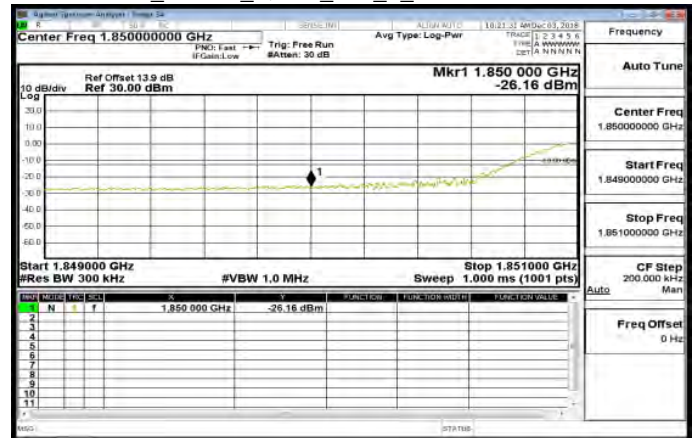
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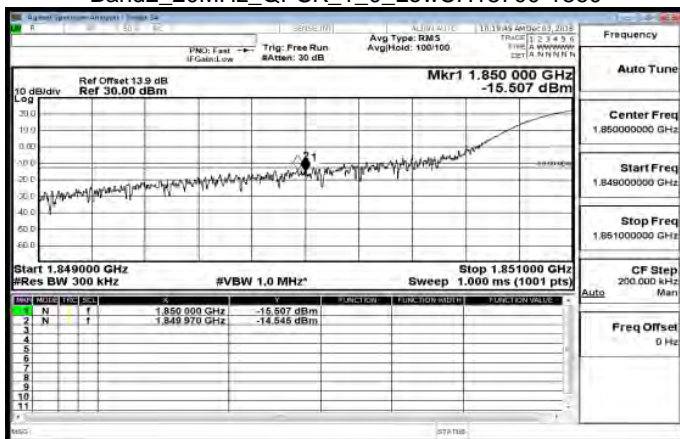
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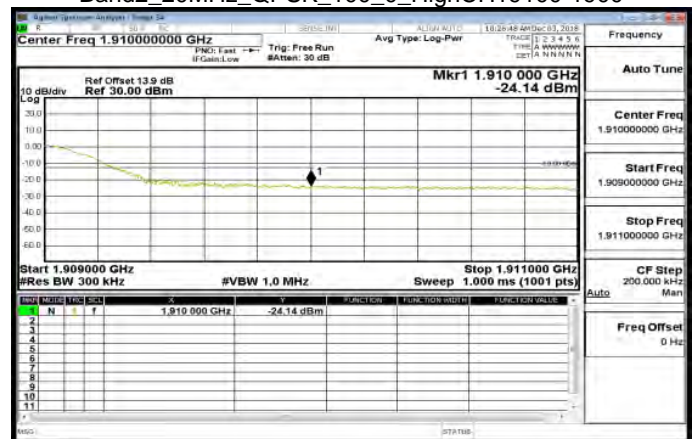
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Band2_20MHz_QPSK_100_0_HighCH19100-1900



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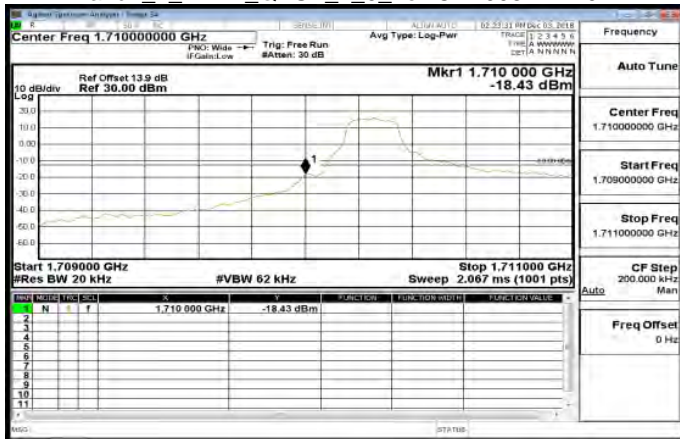
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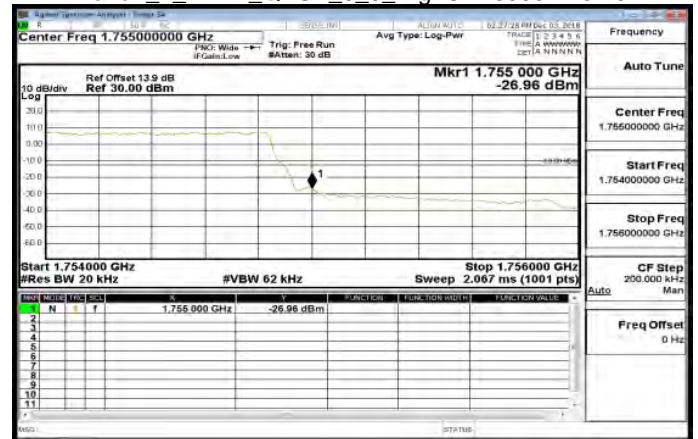
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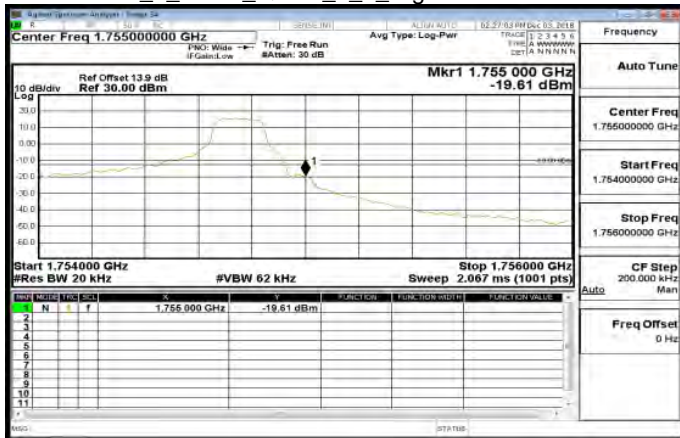
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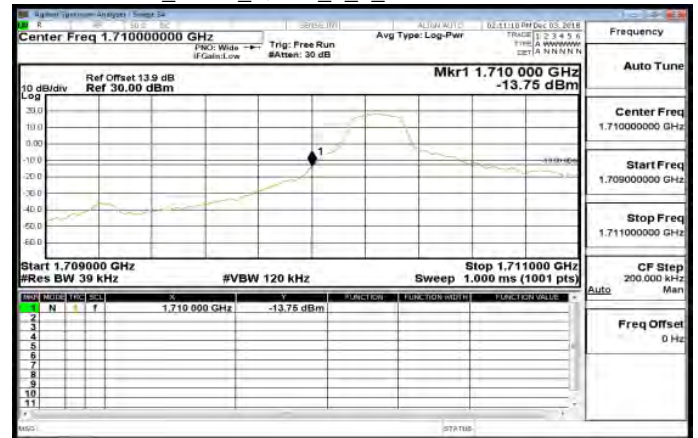
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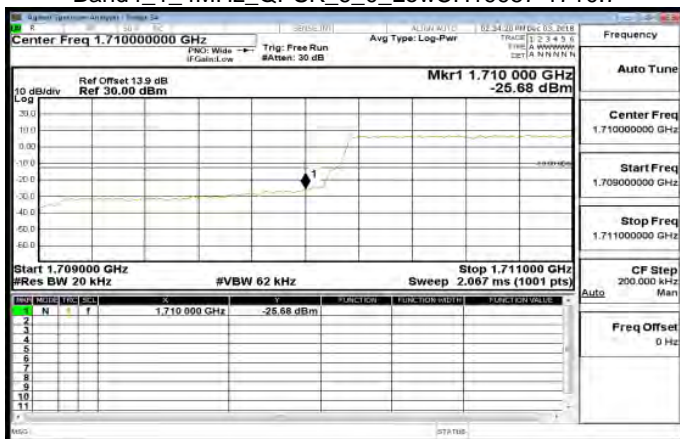
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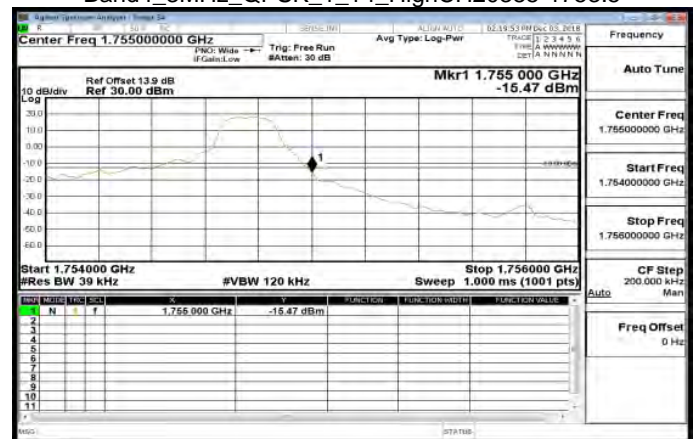
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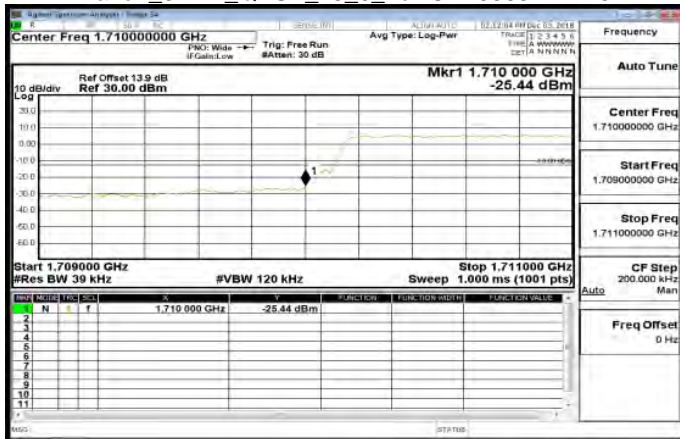
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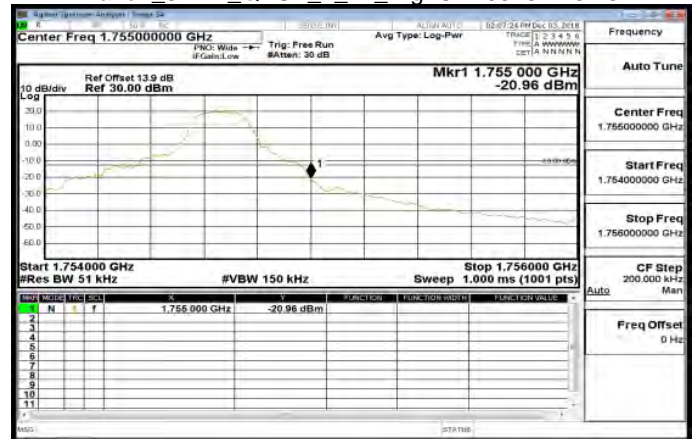
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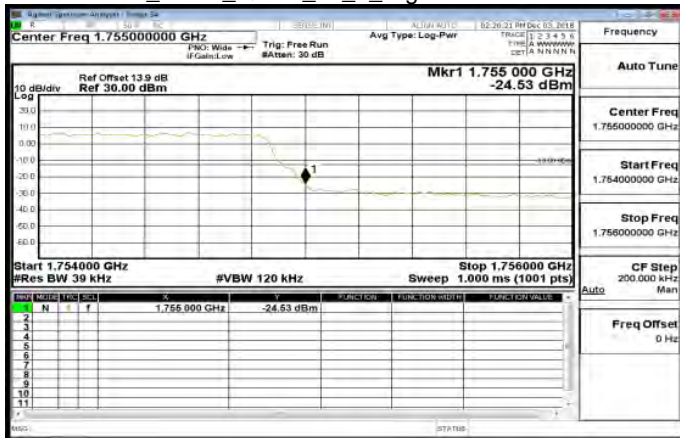
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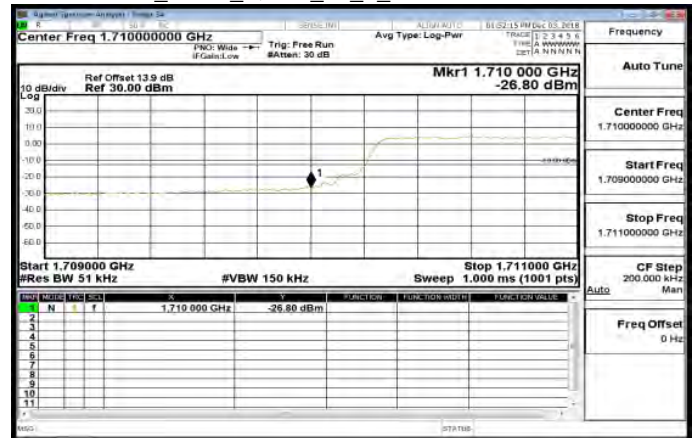
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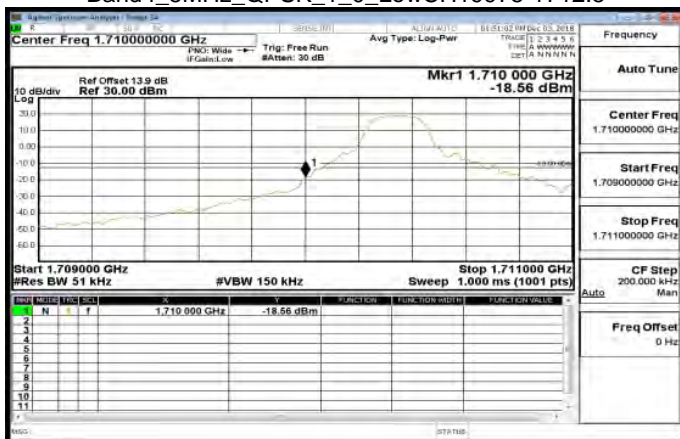
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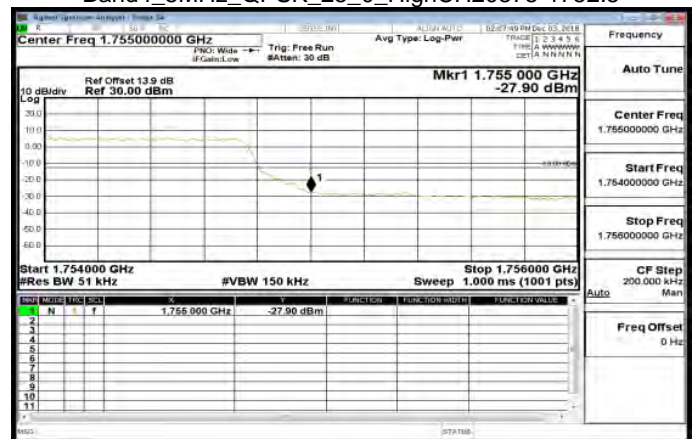
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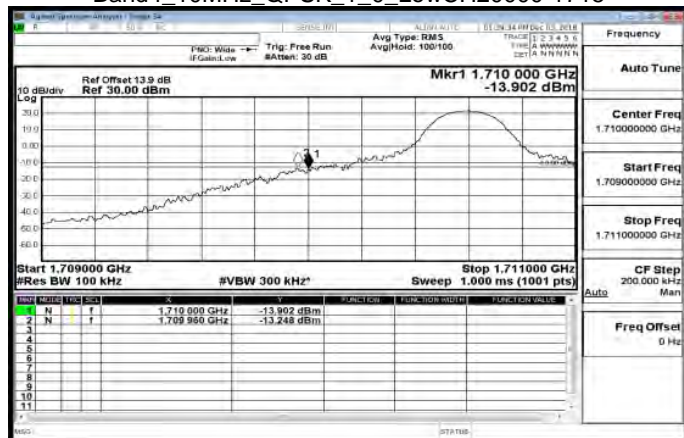
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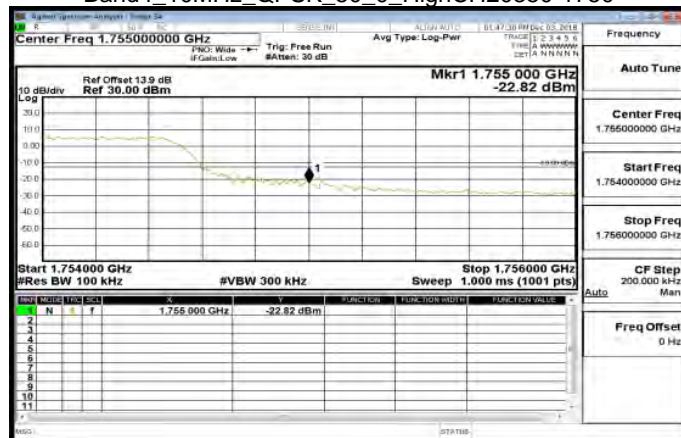
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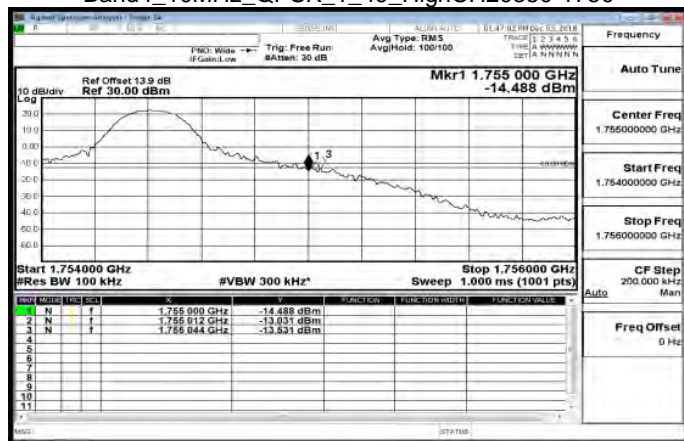
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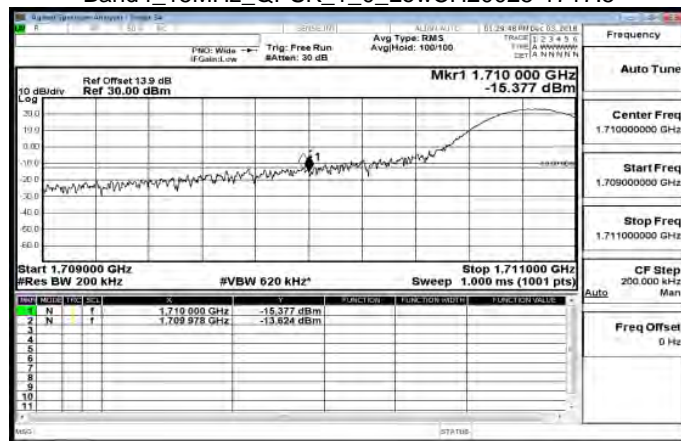
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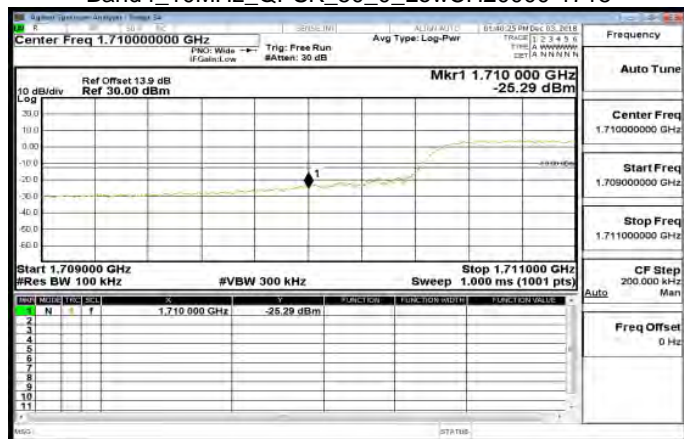
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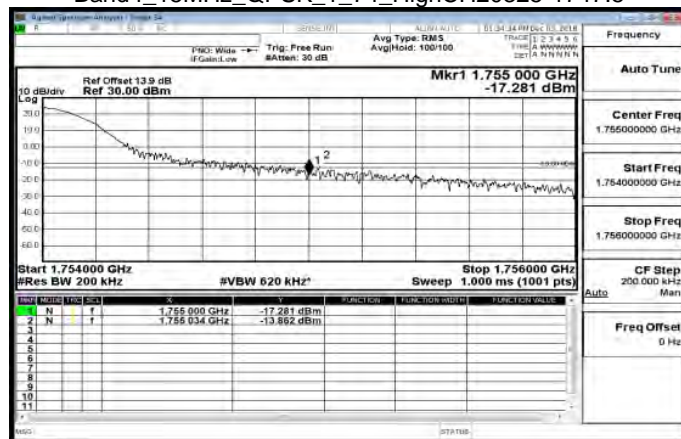
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Band4_15MHz_QPSK_1_74_HighCH20325-1747.5



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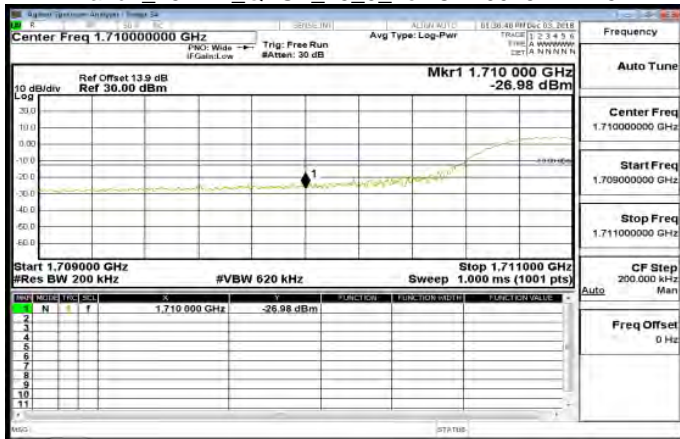
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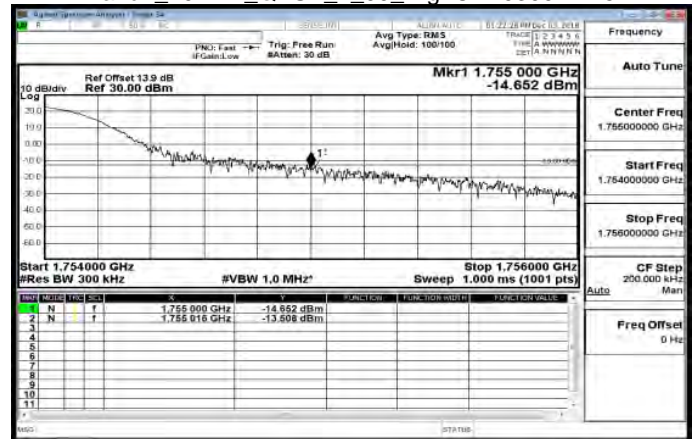
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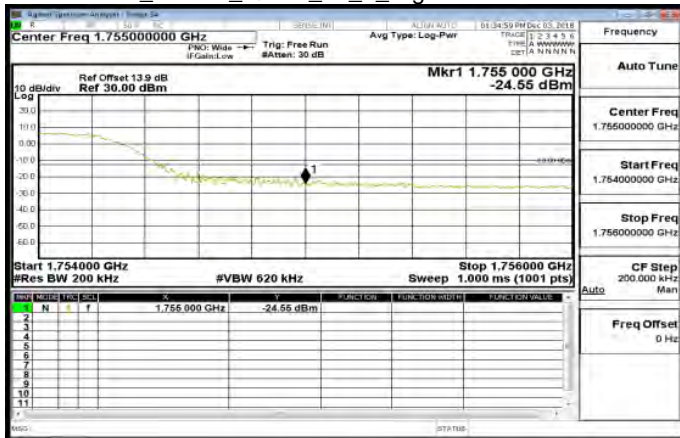
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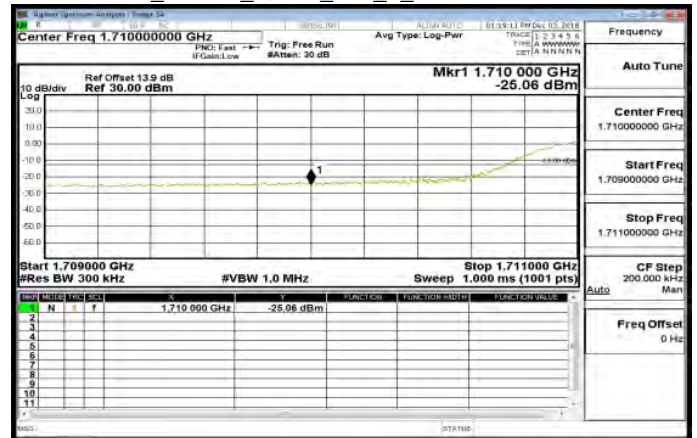
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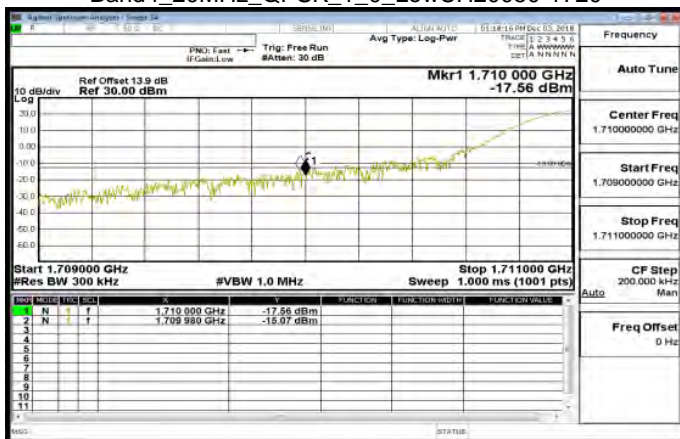
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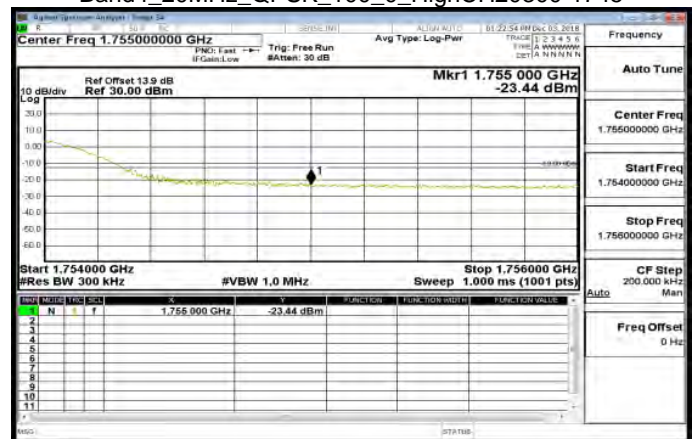
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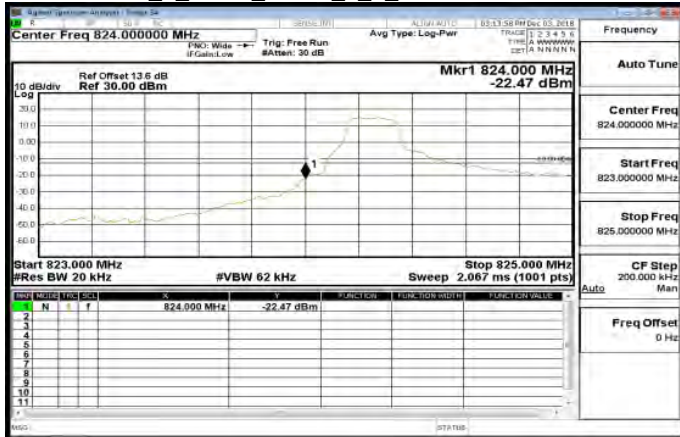
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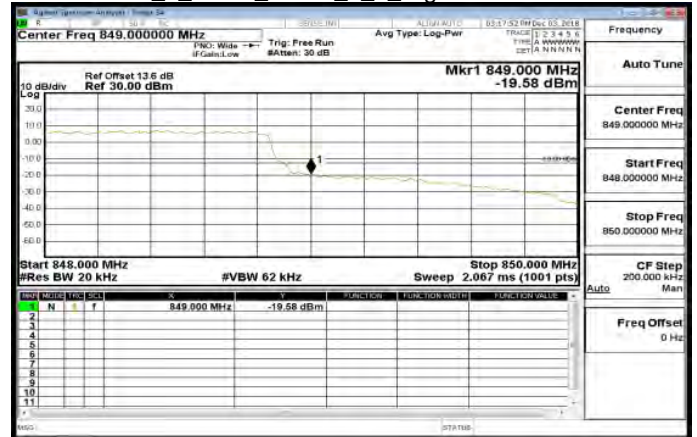
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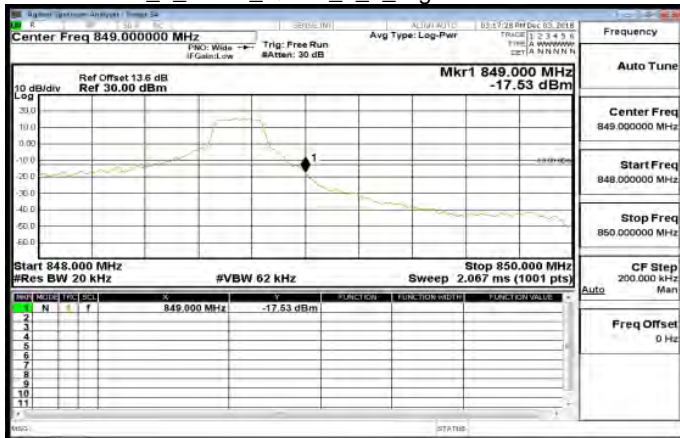
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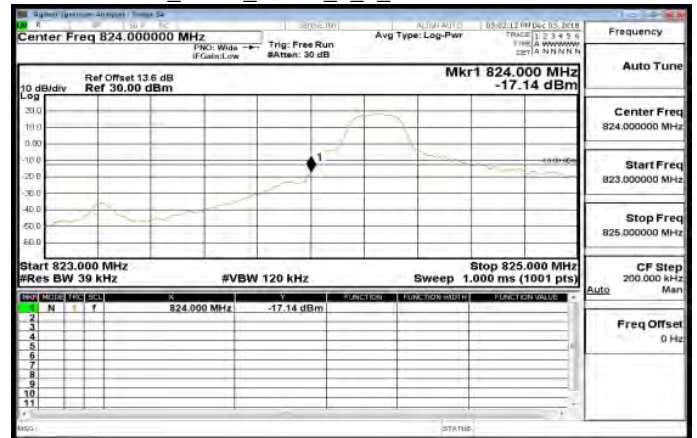
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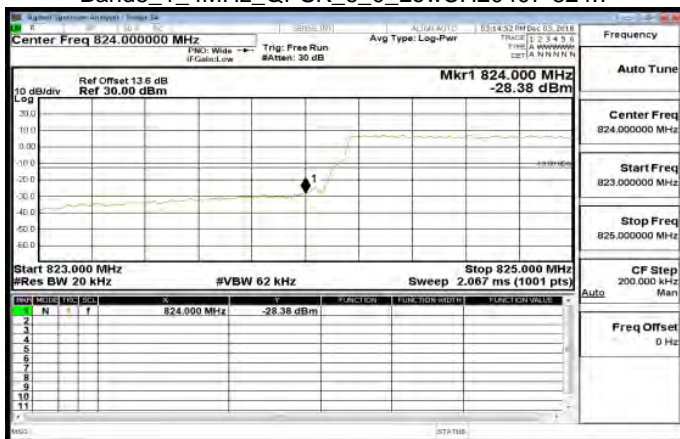
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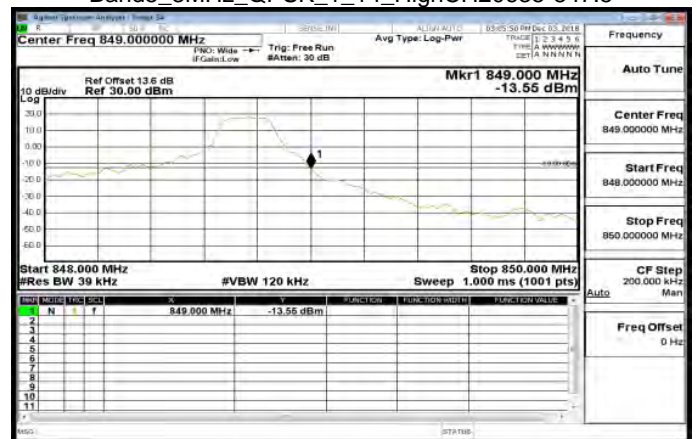
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Band5_3MHz_QPSK_1_14_HighCH20635-847.5



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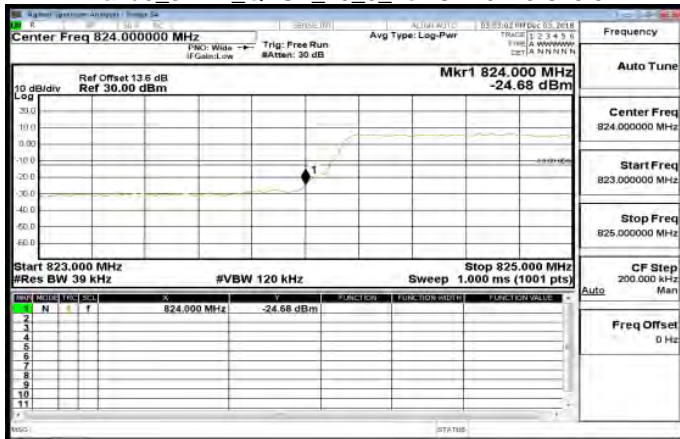
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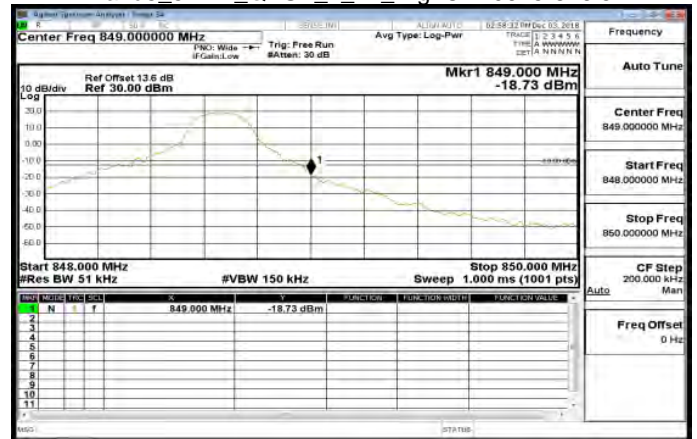
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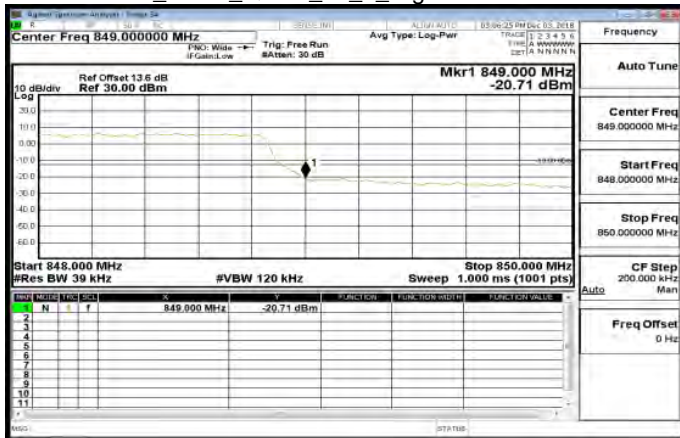
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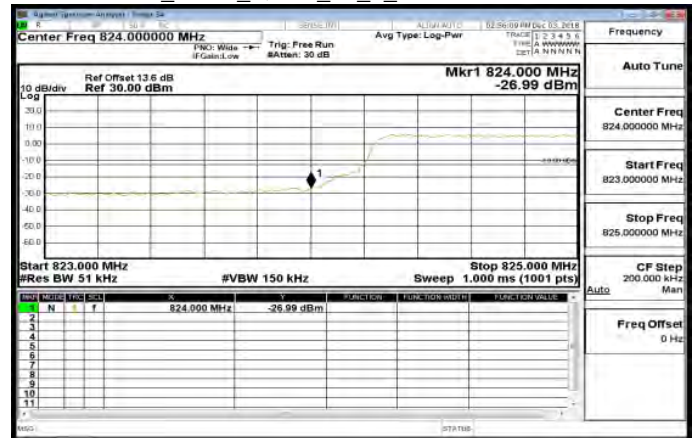
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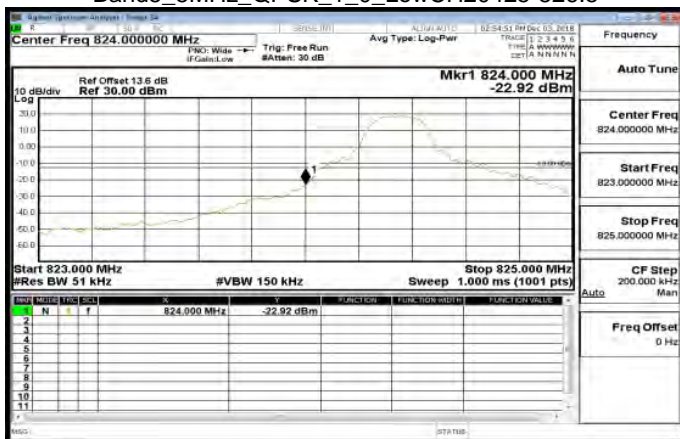
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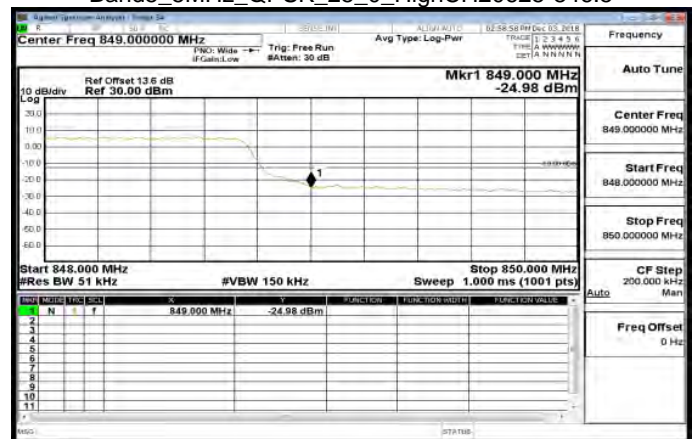
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Band5_5MHz_QPSK_25_0_HighCH20625-846.5



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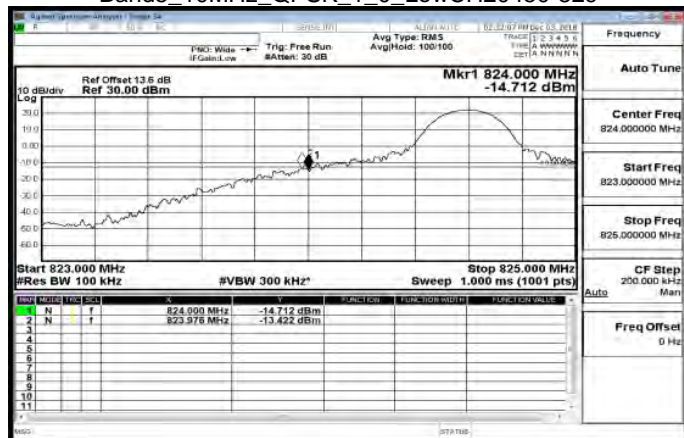
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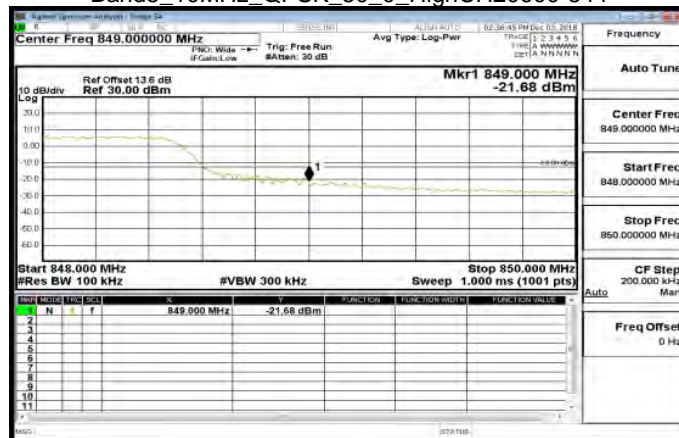
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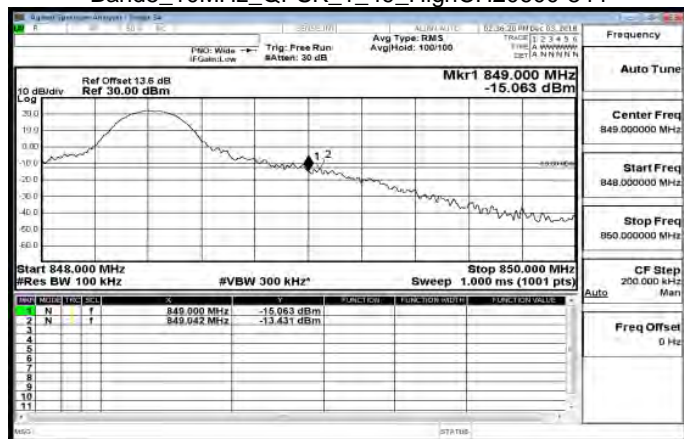
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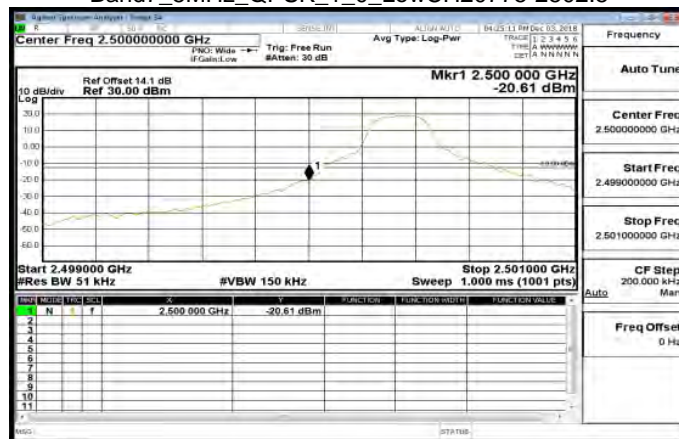
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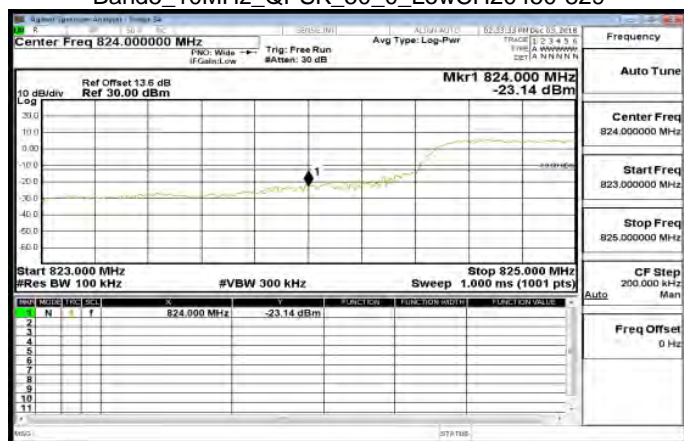
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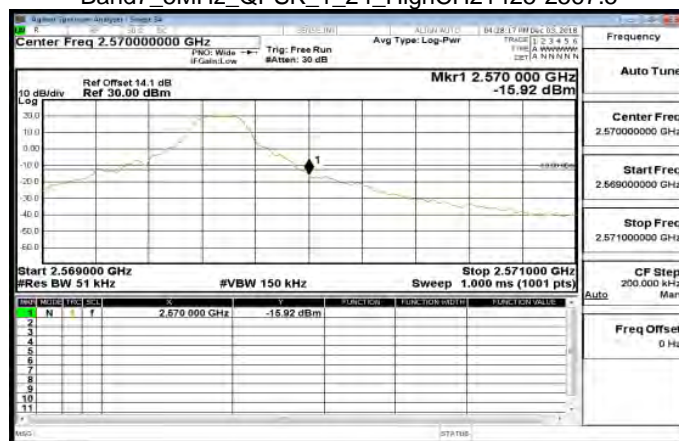
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Band5_10MHz_QPSK_50_0_LowCH20450-829



Band7_5MHz_QPSK_1_24_HighCH21425-2567.5



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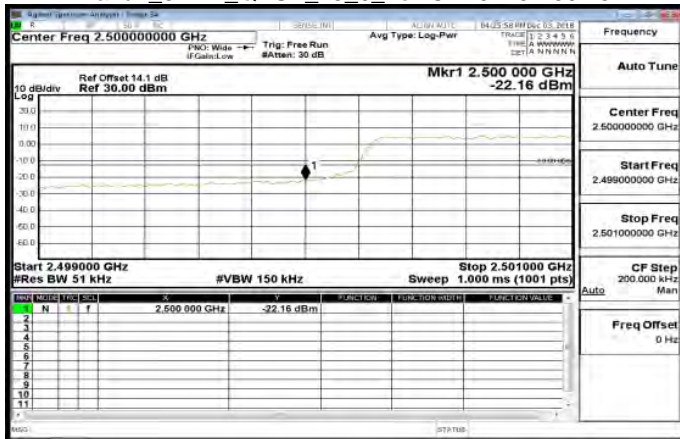
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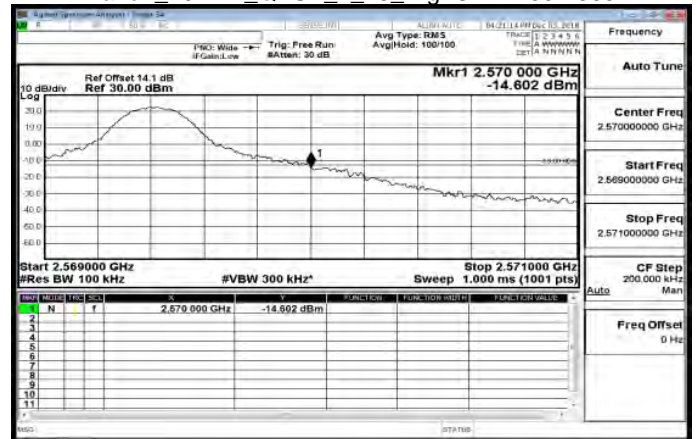
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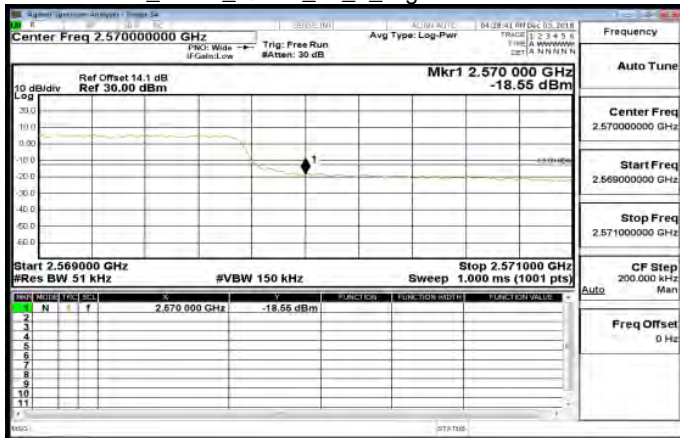
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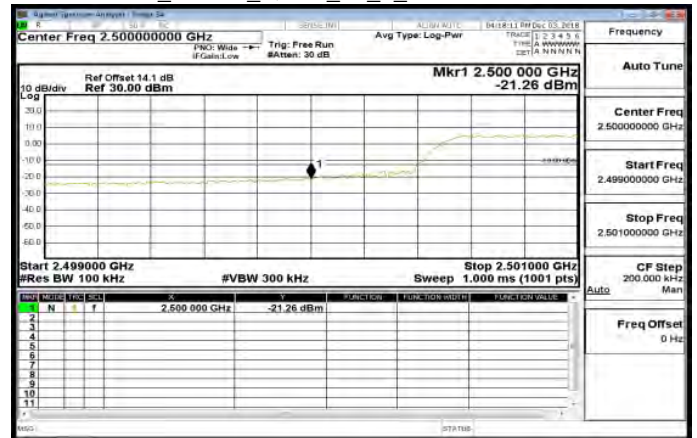
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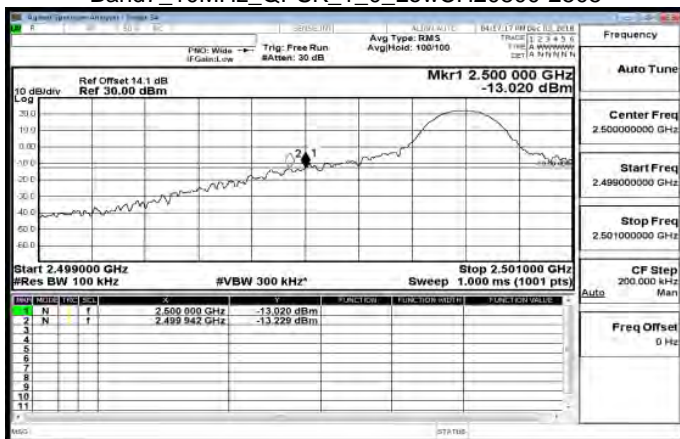
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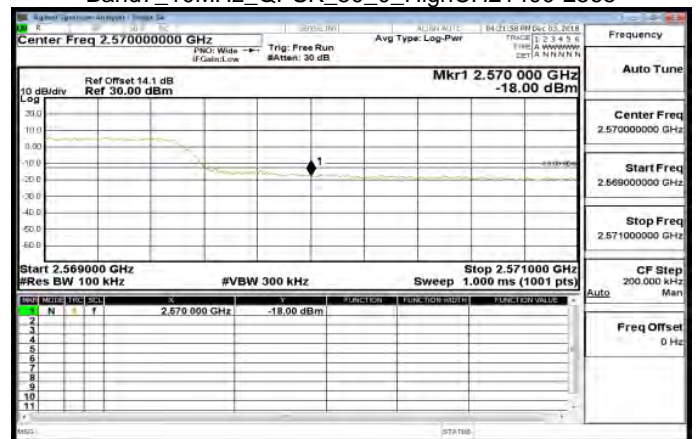
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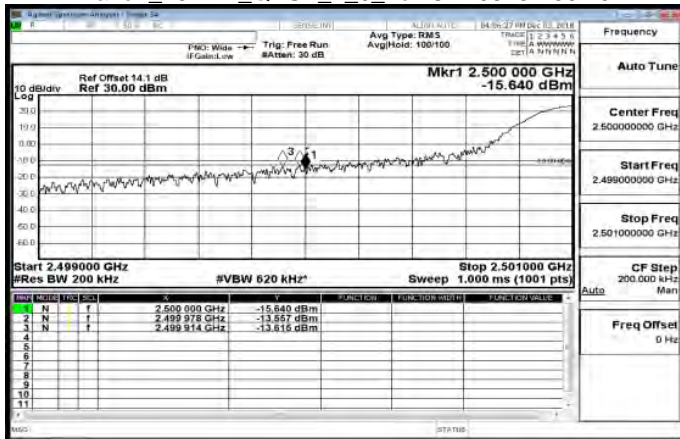
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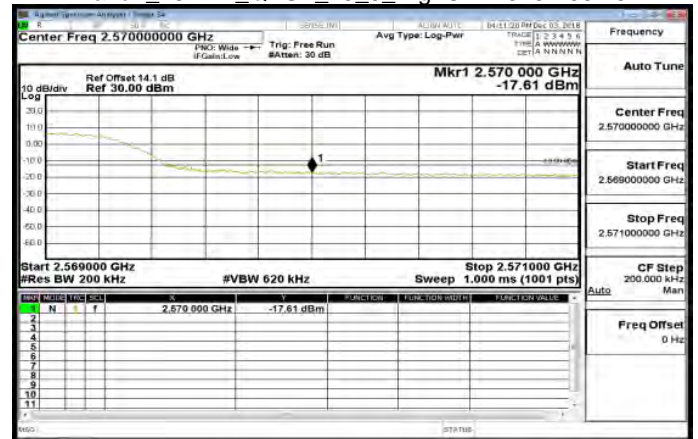
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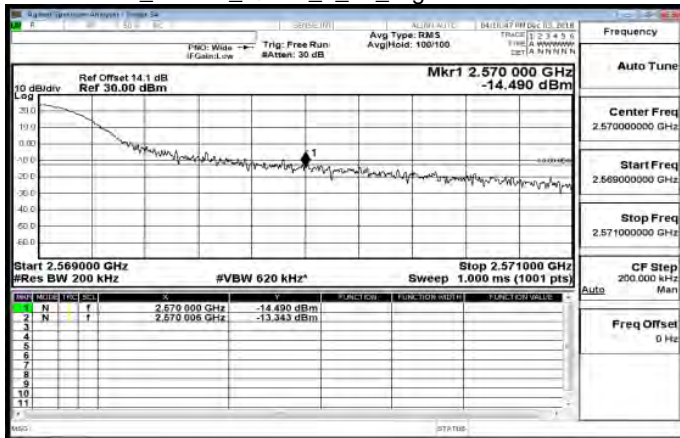
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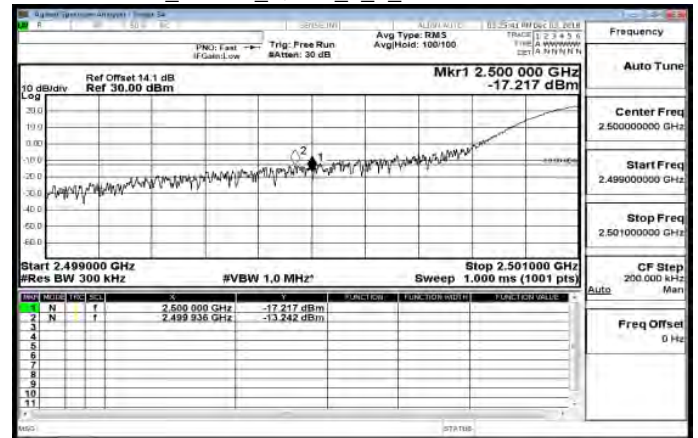
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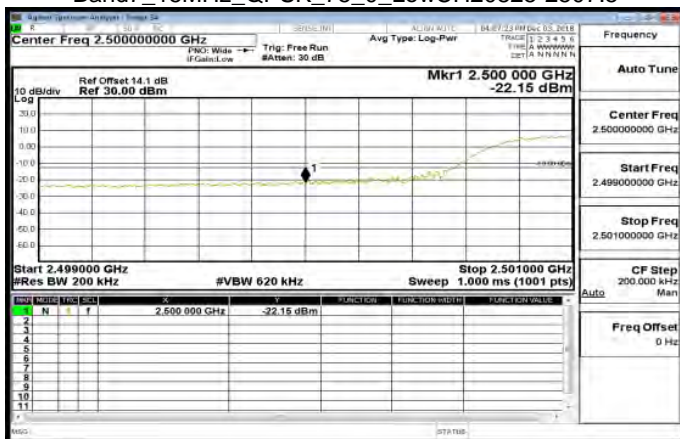
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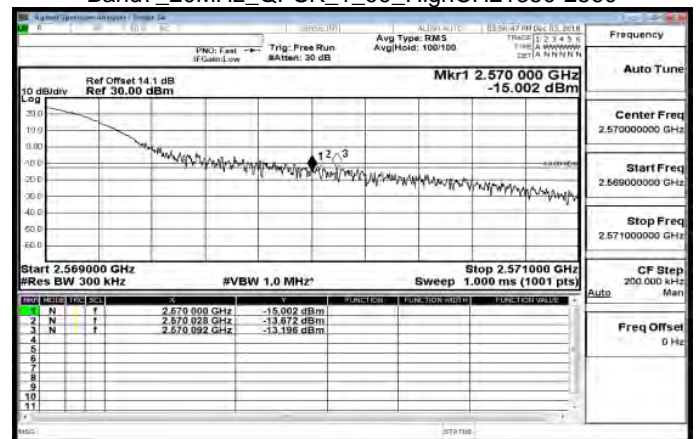
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Band7_15MHz_QPSK_75_0_LowCH20825-2507.5



Band7_20MHz_QPSK_1_99_HighCH21350-2560



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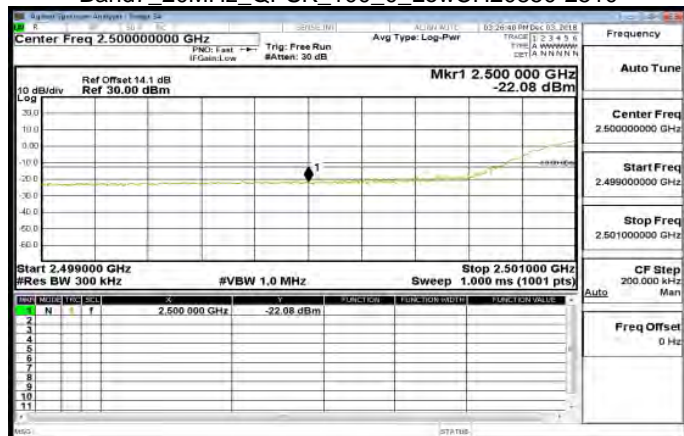
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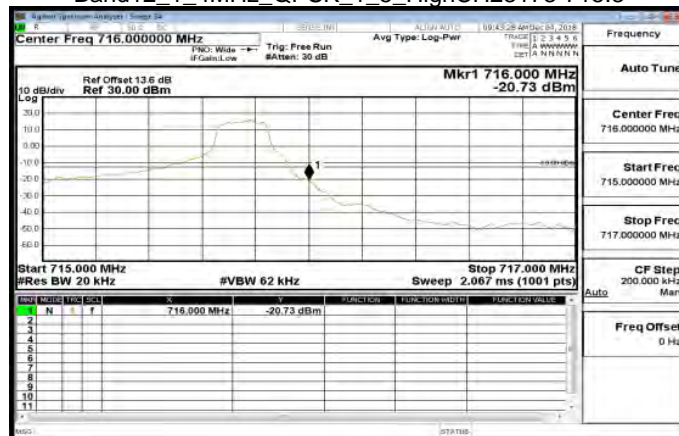
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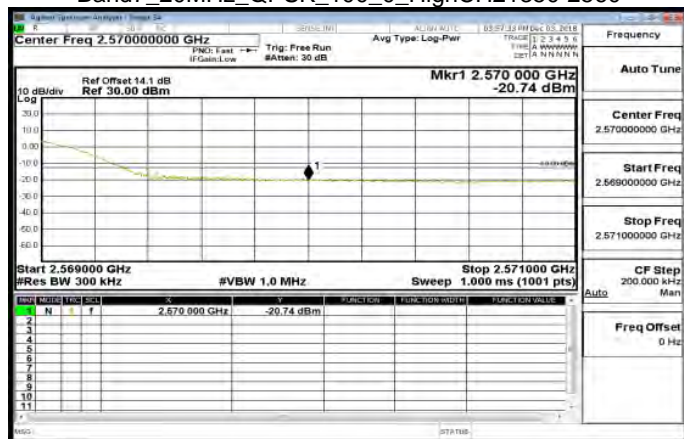
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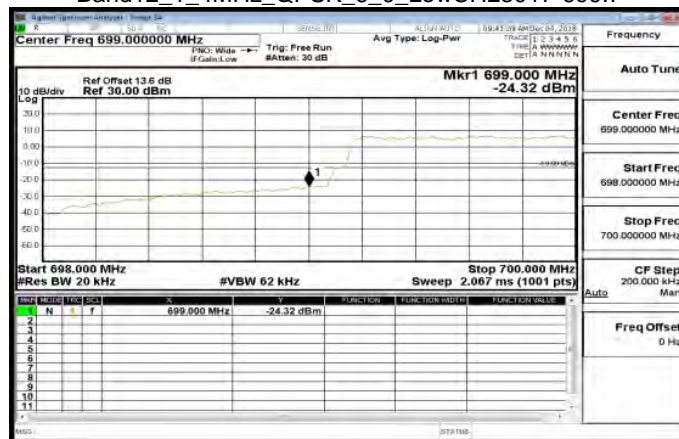
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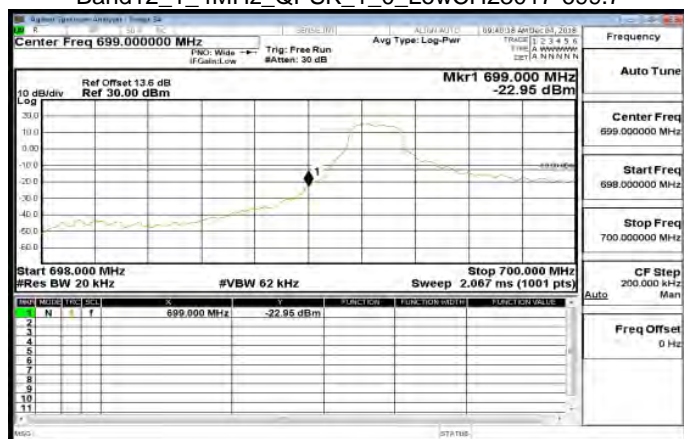
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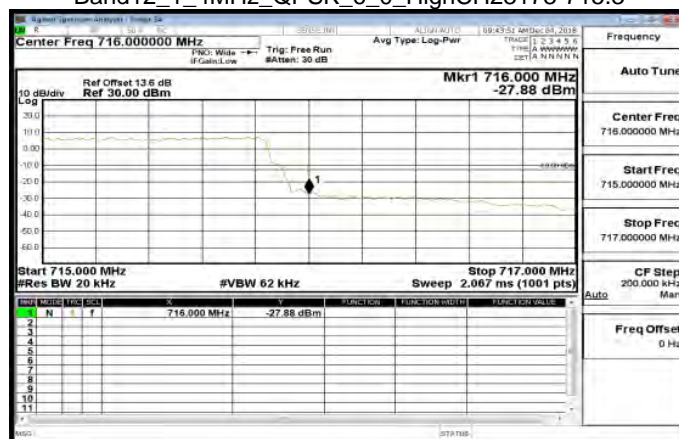
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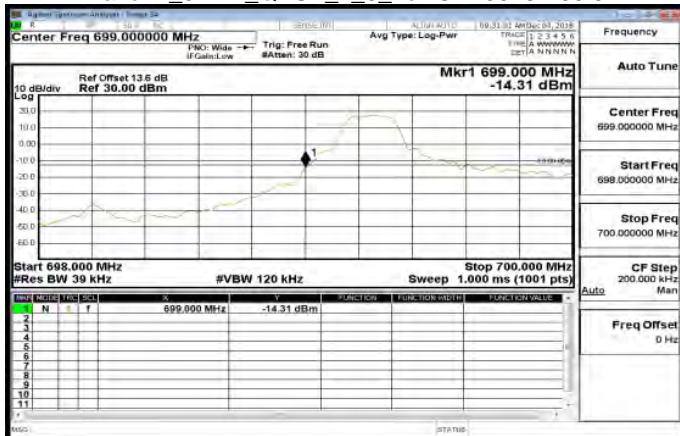
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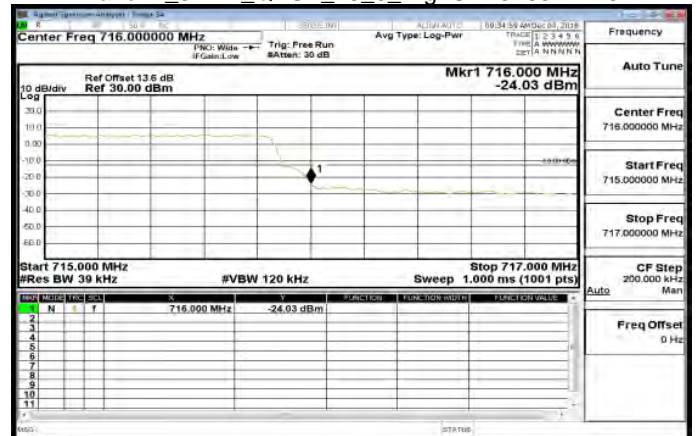
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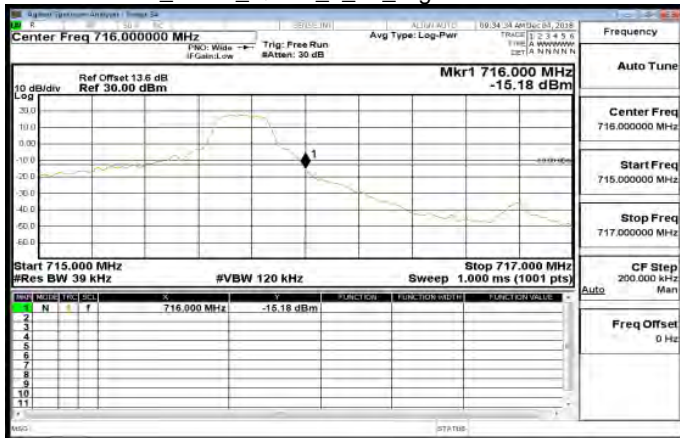
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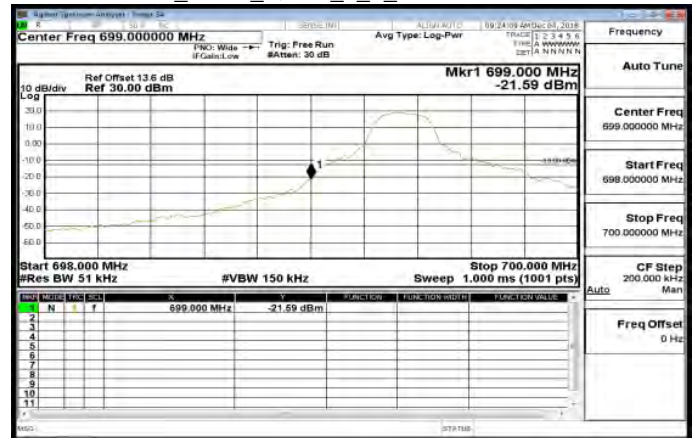
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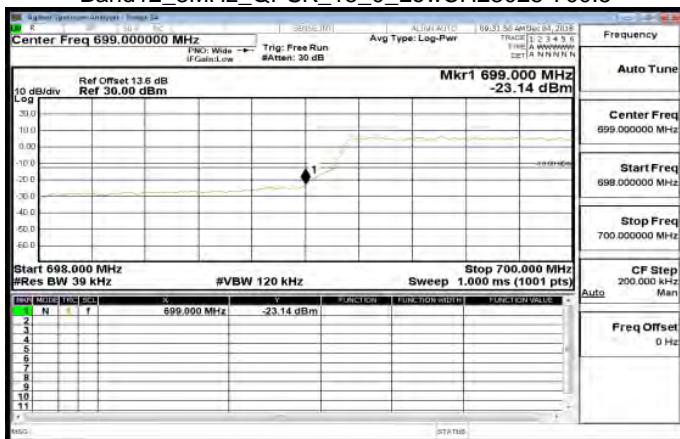
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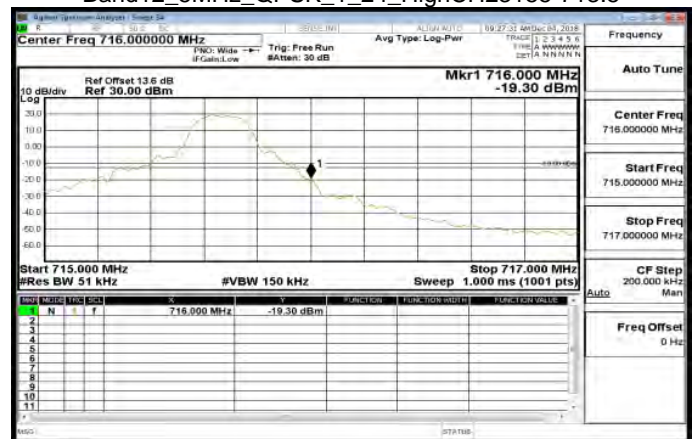
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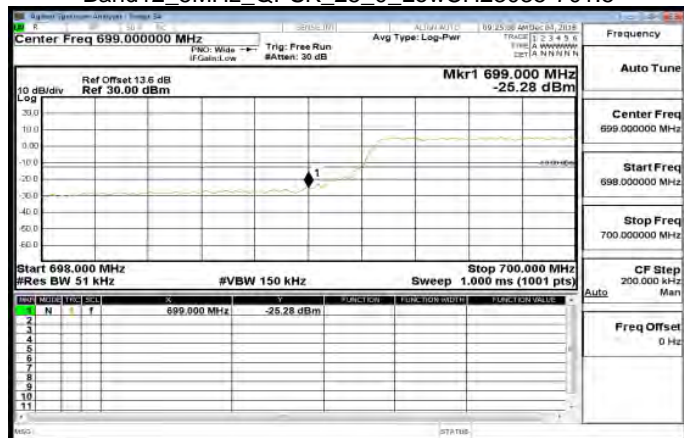
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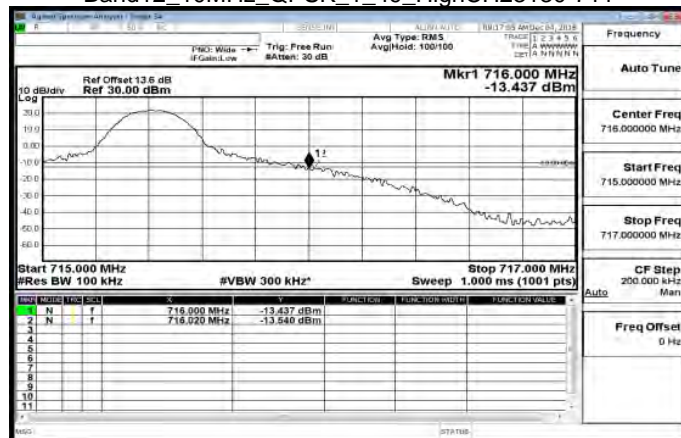
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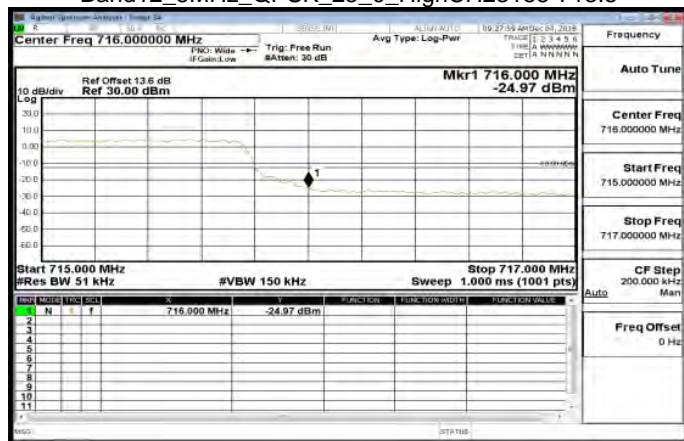
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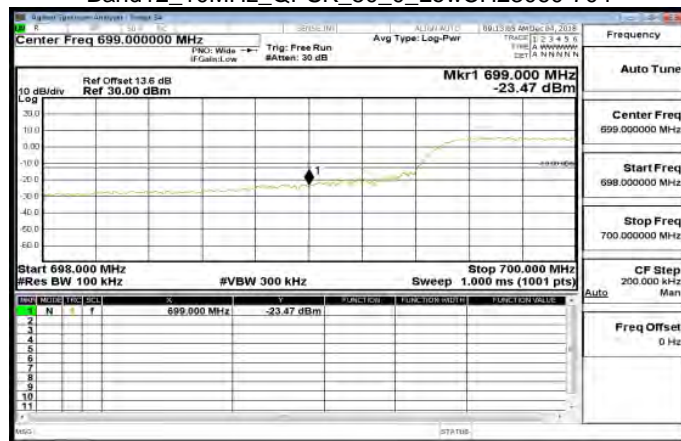
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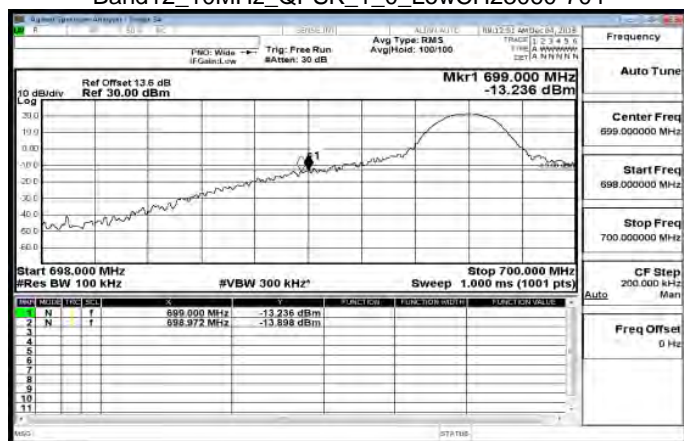
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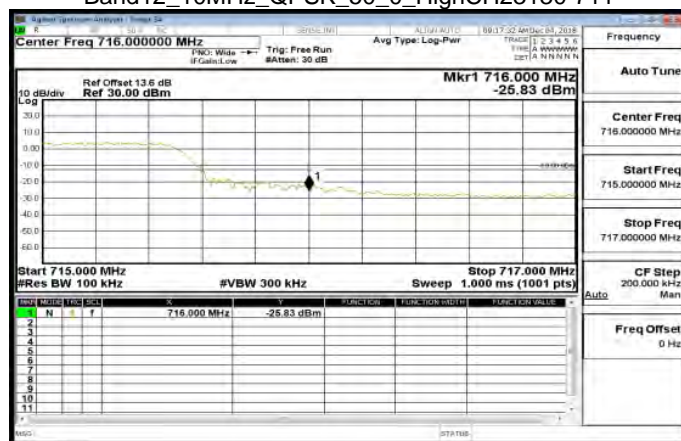
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Band12_10MHz_QPSK_50_0_HighCH23130-711



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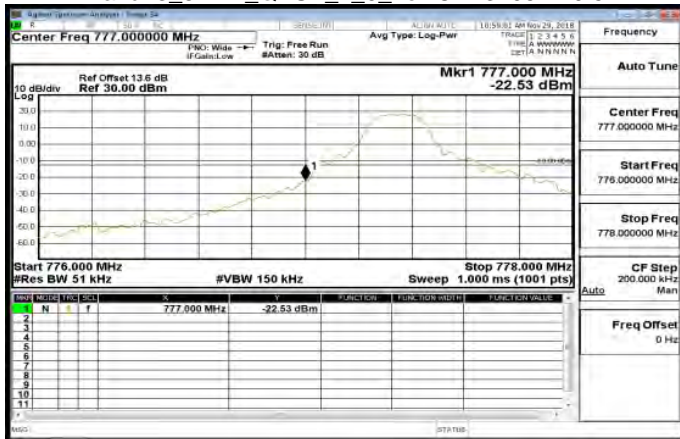
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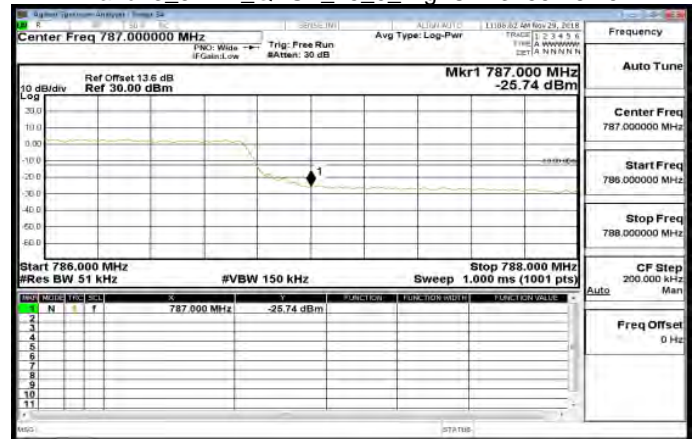
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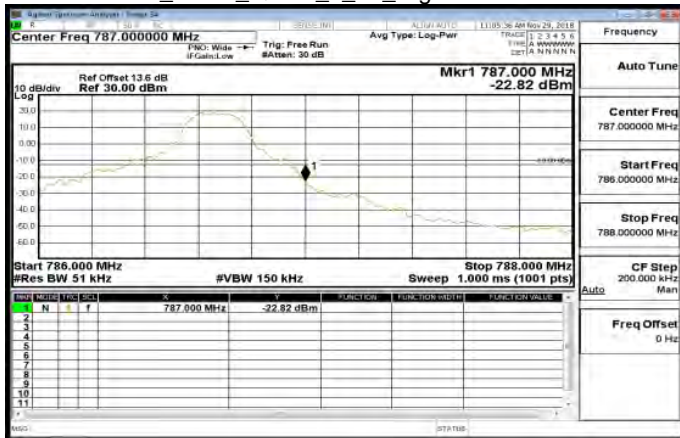
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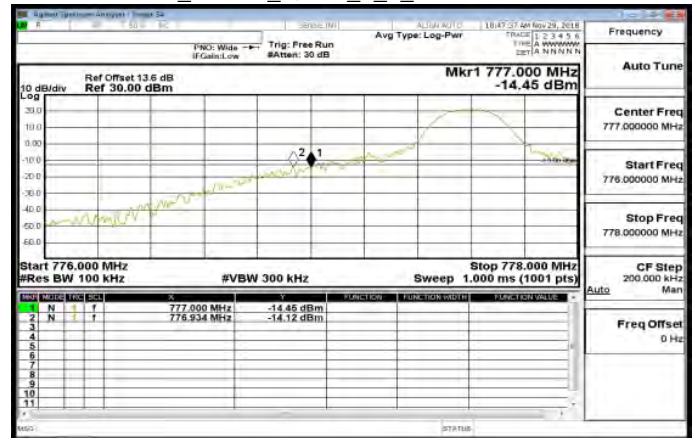
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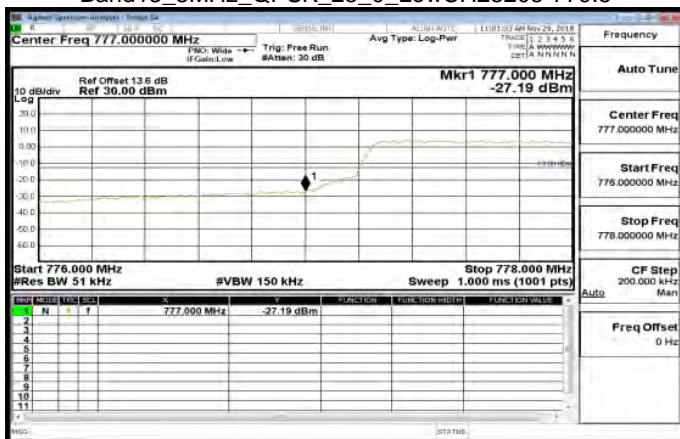
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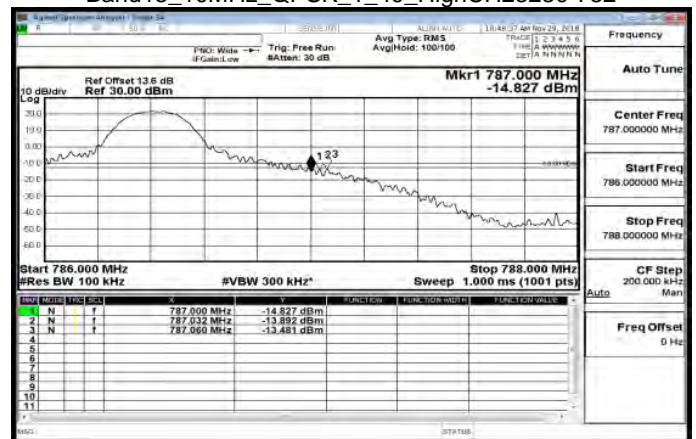
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Band13_10MHz_QPSK_1_49_HighCH23230-782



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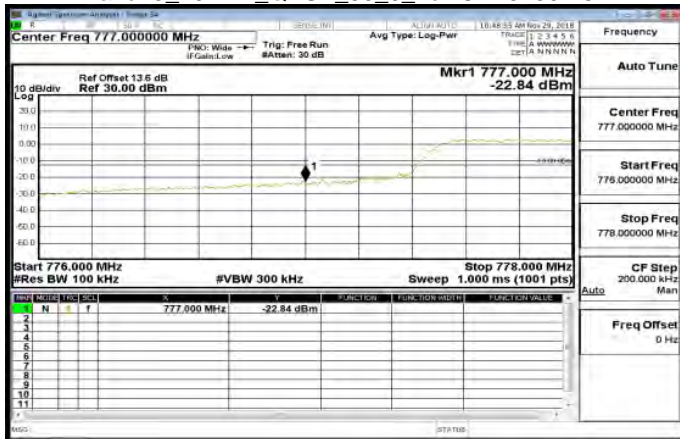
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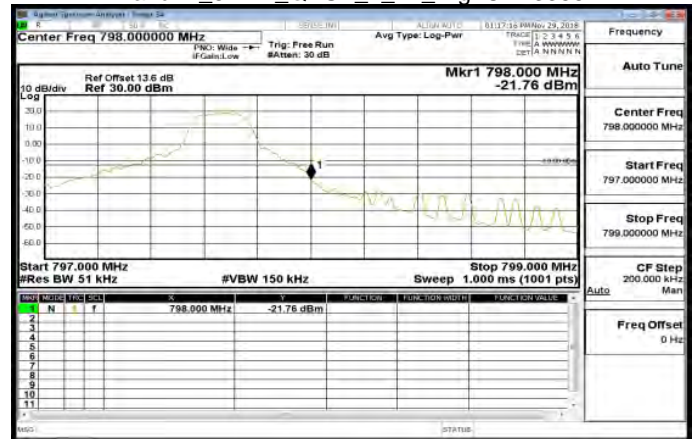
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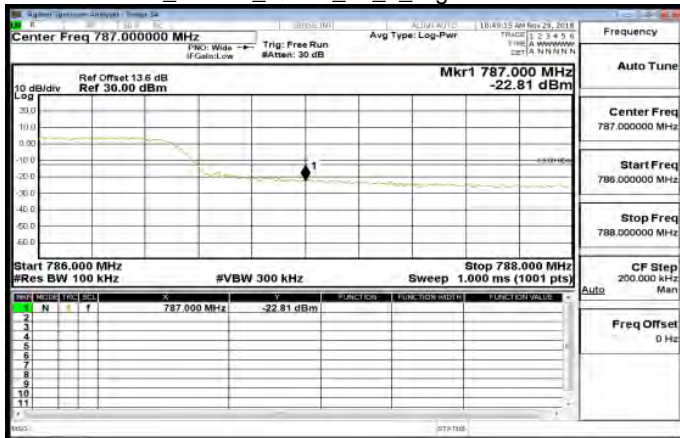
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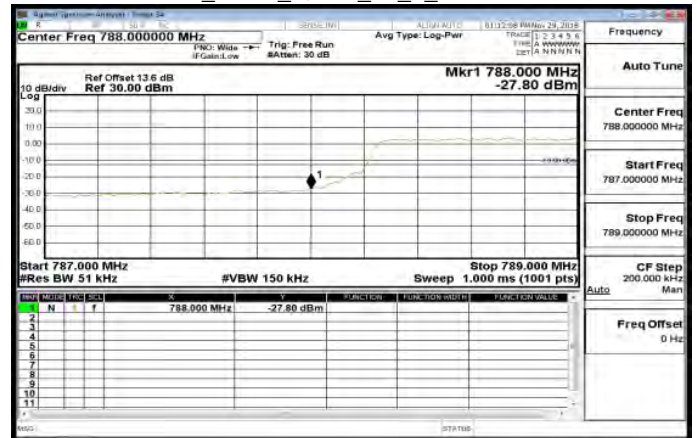
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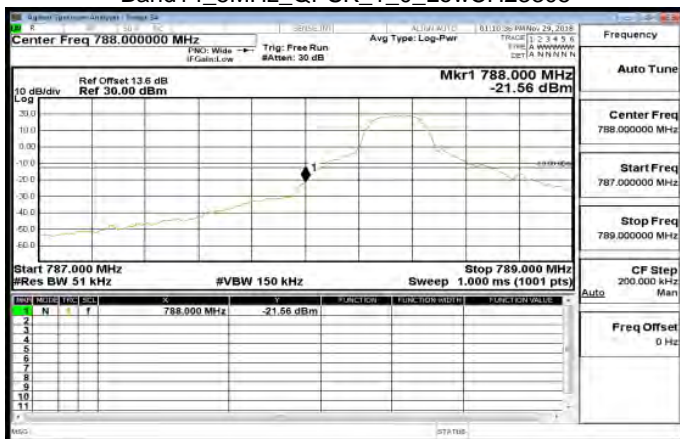
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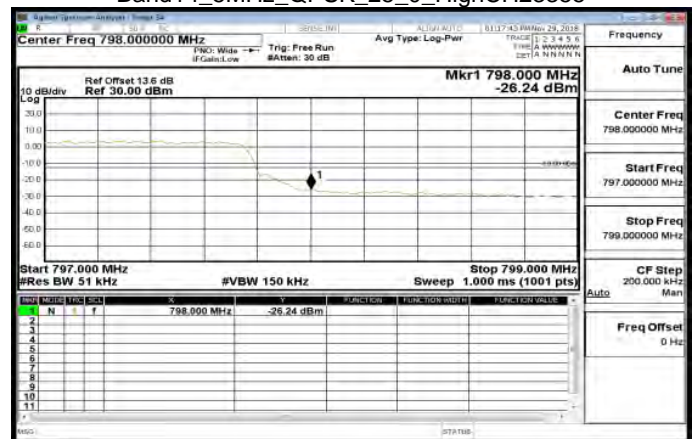
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Band14_5MHz_QPSK_1_0_LowCH23305



Band14_5MHz_QPSK_25_0_HighCH23355



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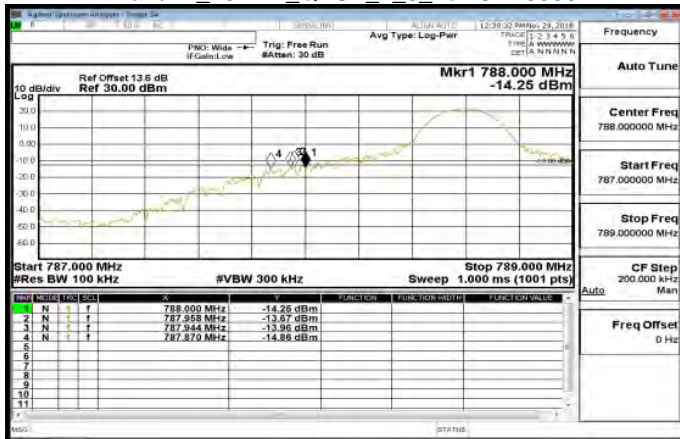
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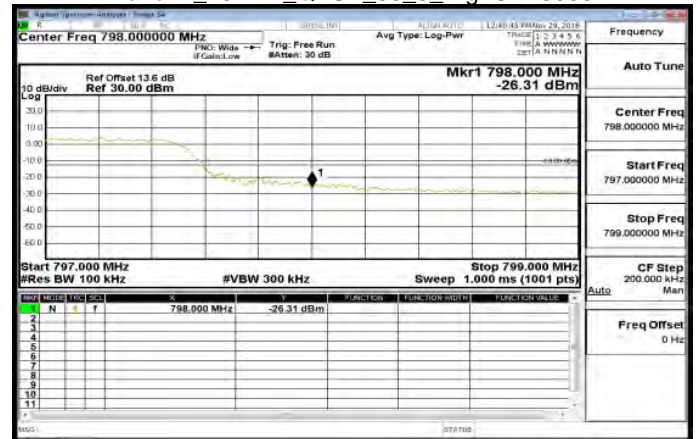
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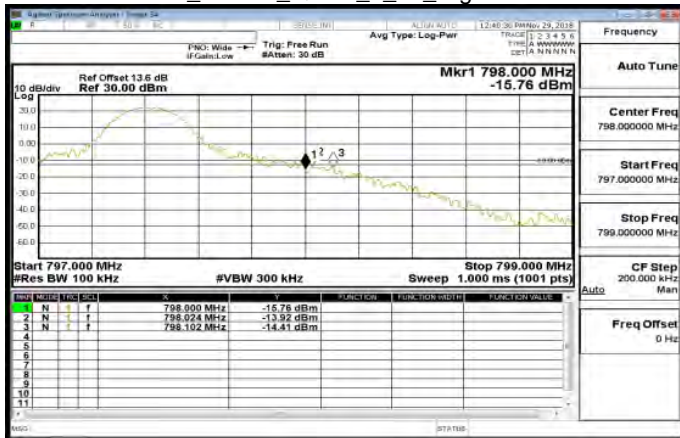
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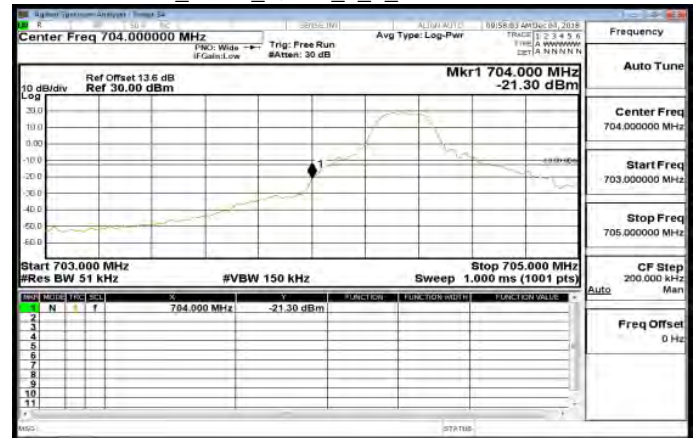
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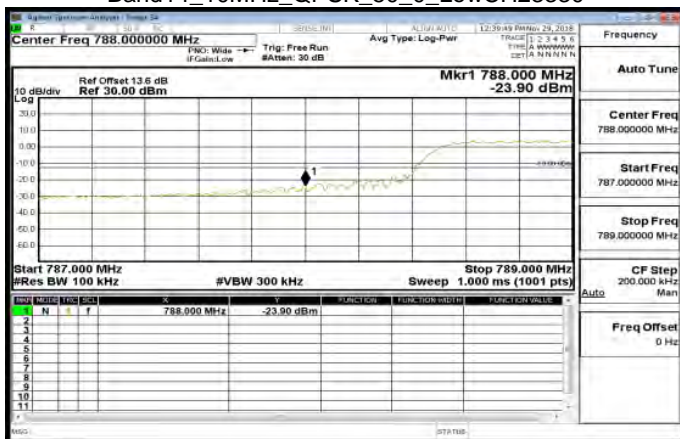
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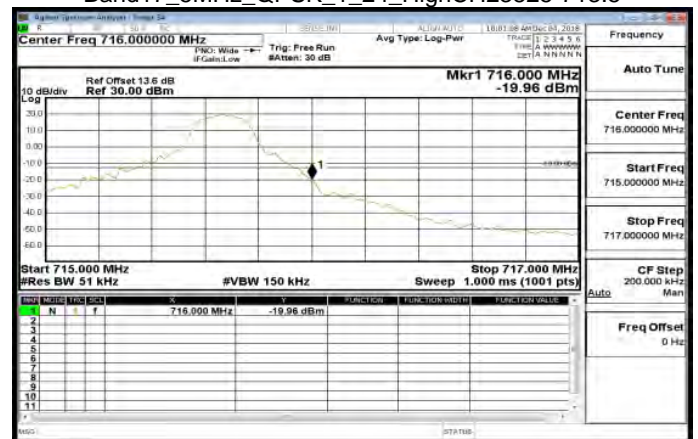
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Band14_10MHz_QPSK_50_0_LowCH23330



Band17_5MHz_QPSK_1_24_HighCH23825-713.5



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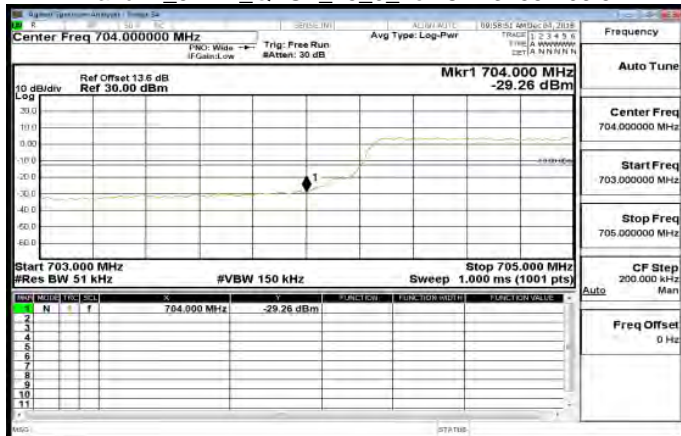
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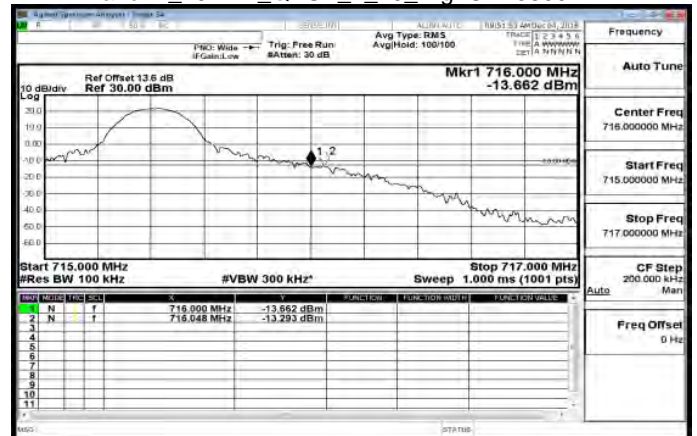
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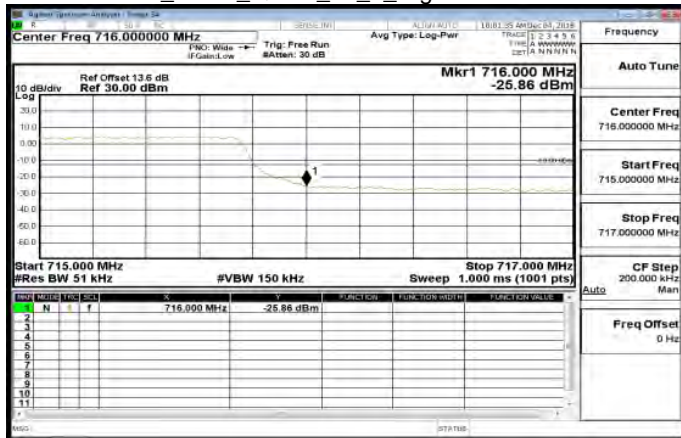
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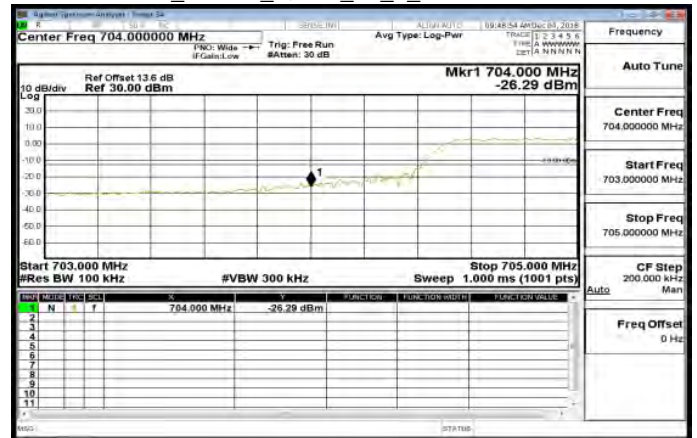
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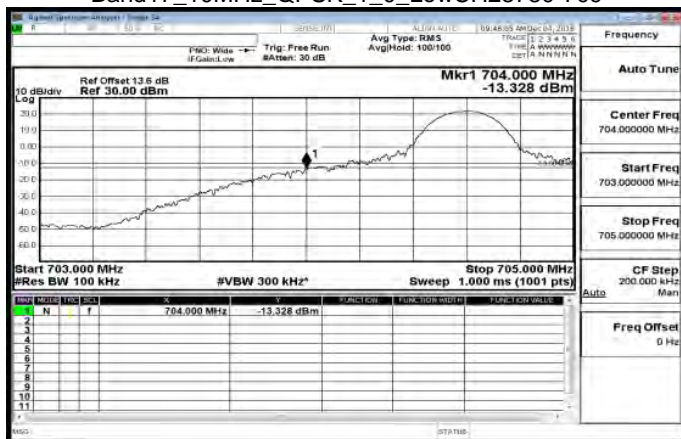
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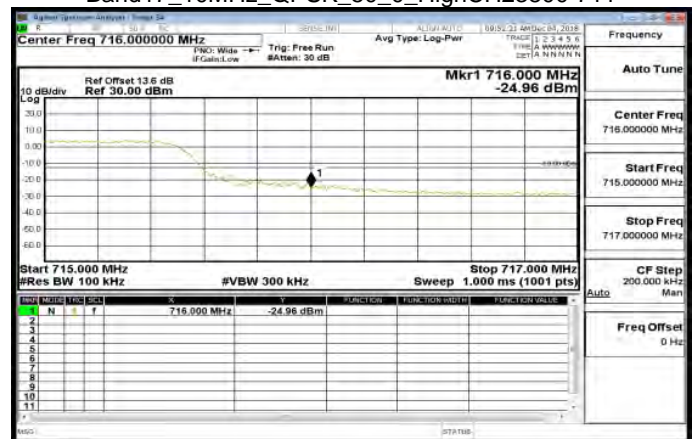
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Band17_10MHz_QPSK_50_0_HighCH23800-711



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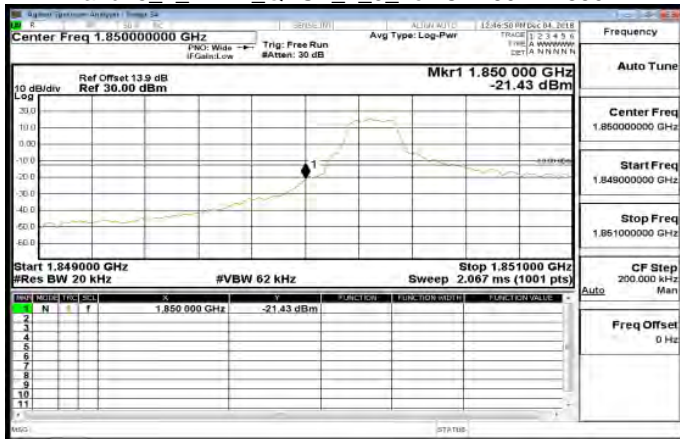
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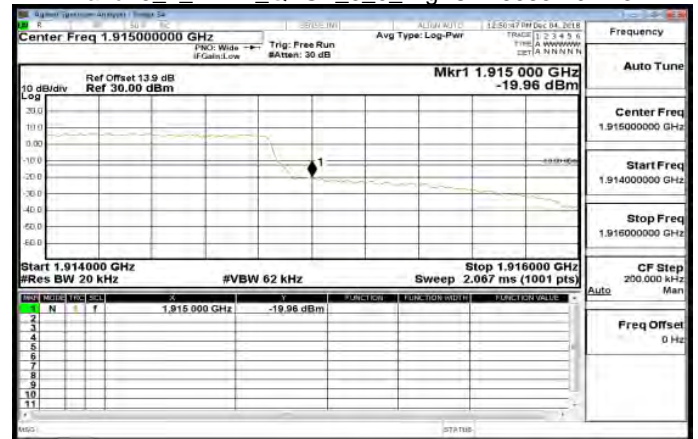
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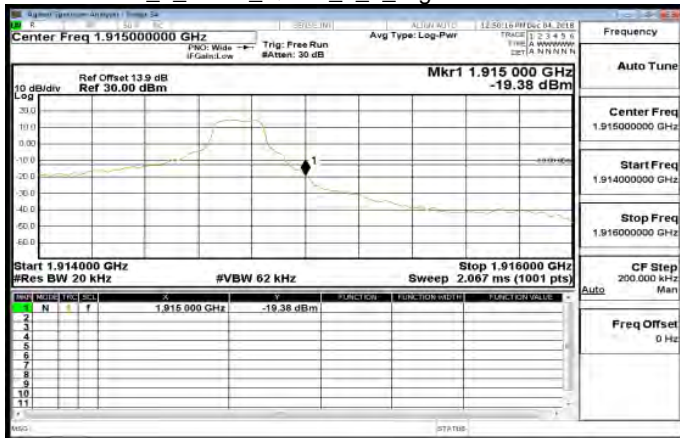
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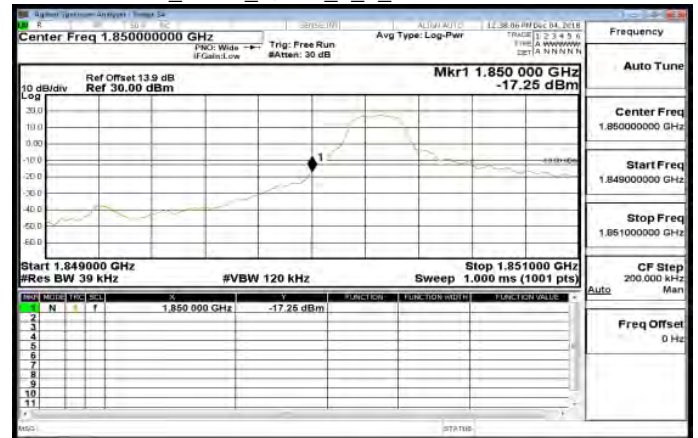
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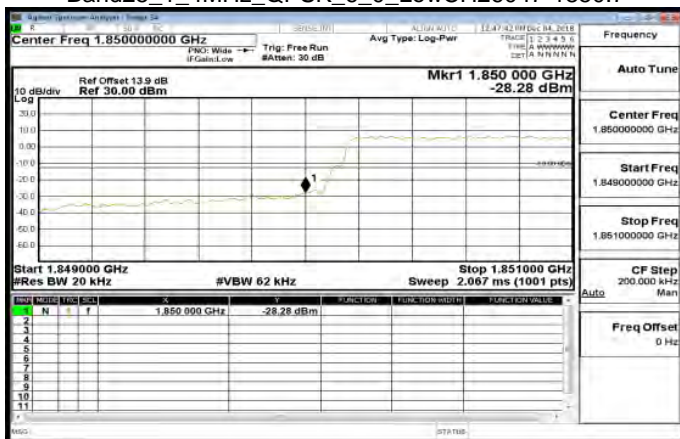
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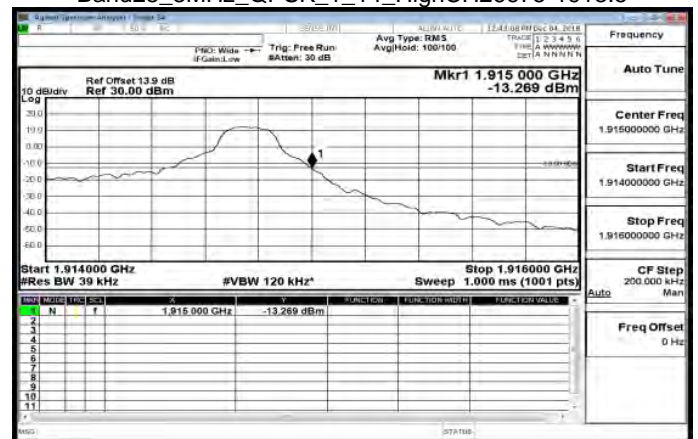
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Band25_3MHz_QPSK_1_14_HighCH26675-1913.5



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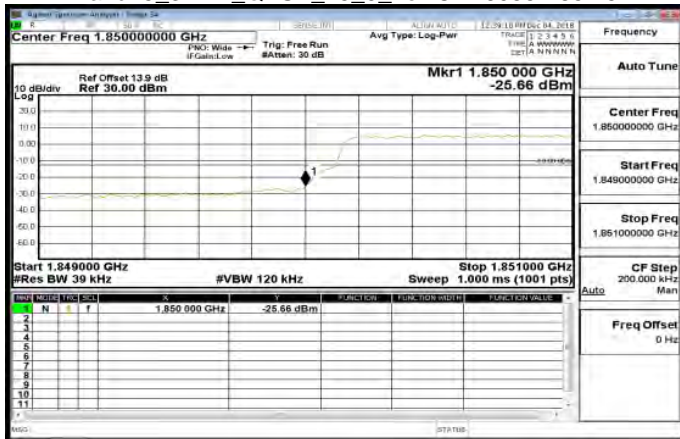
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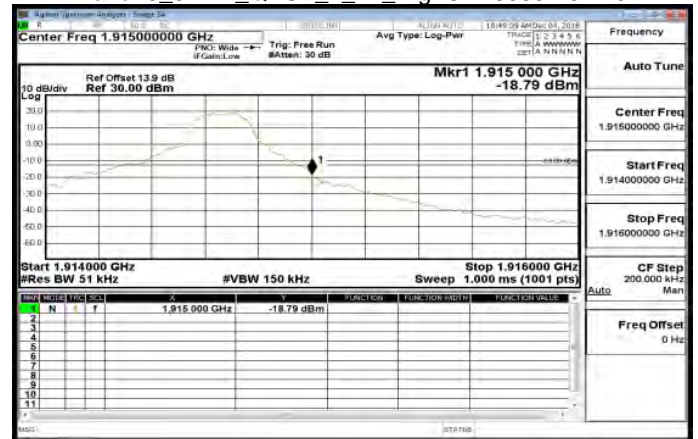
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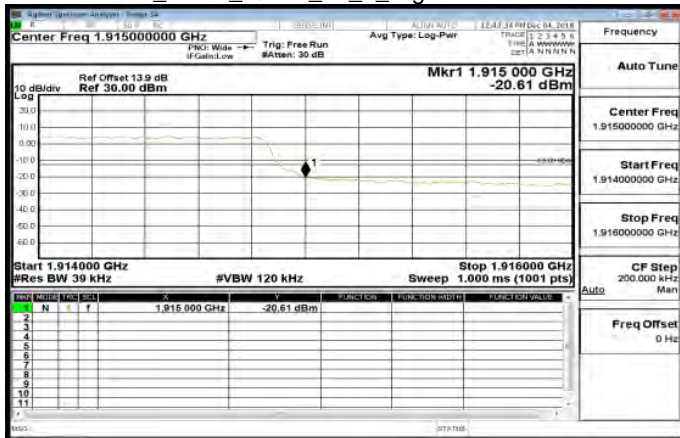
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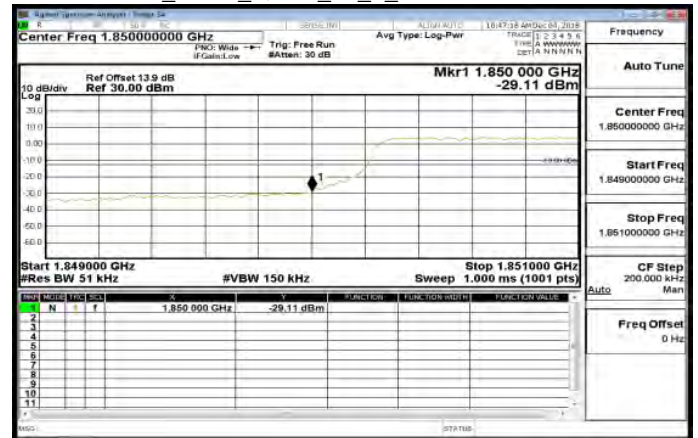
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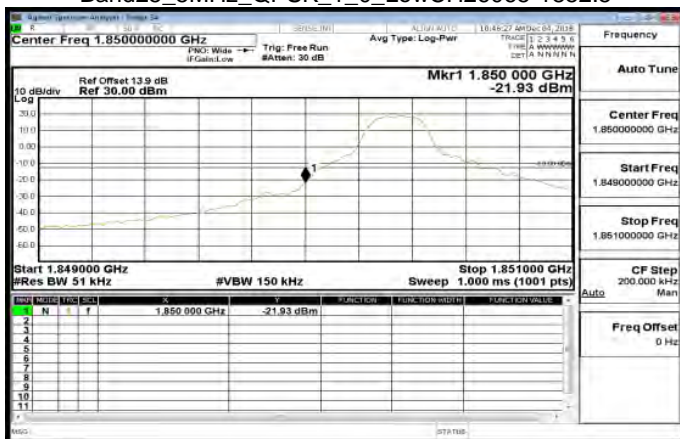
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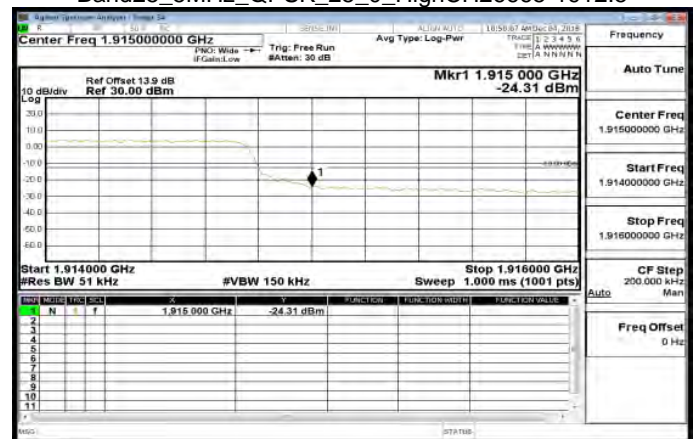
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Band25_5MHz_QPSK_25_0_HighCH26665-1912.5



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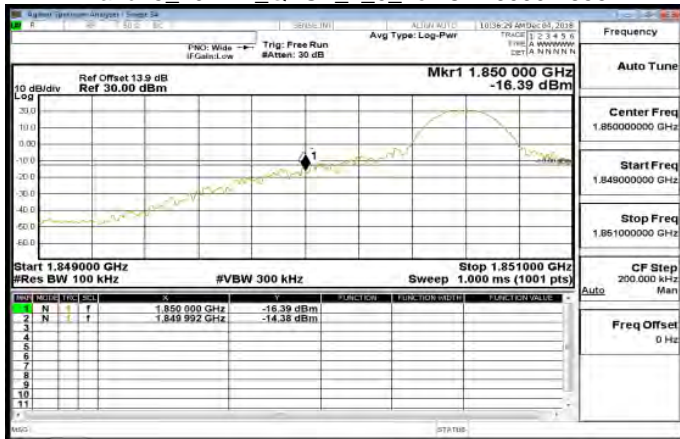
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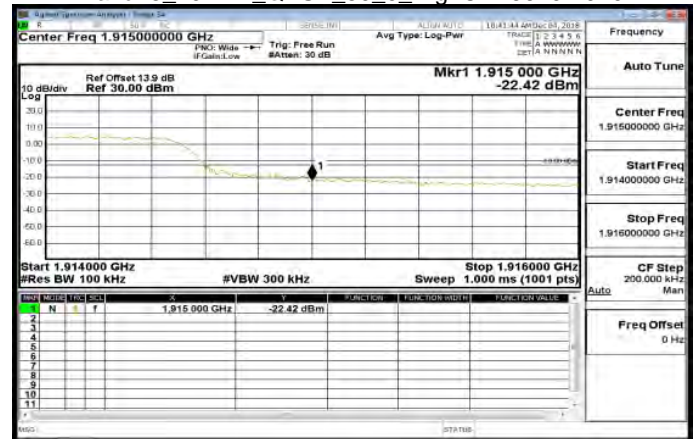
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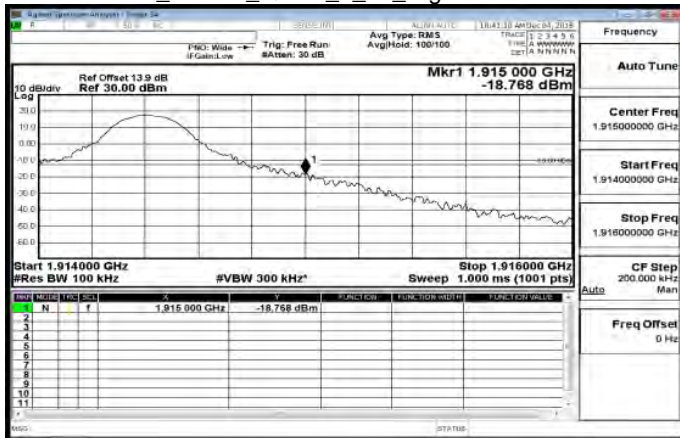
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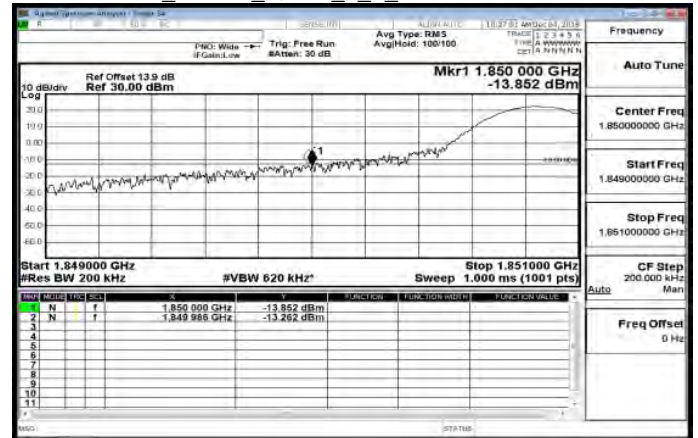
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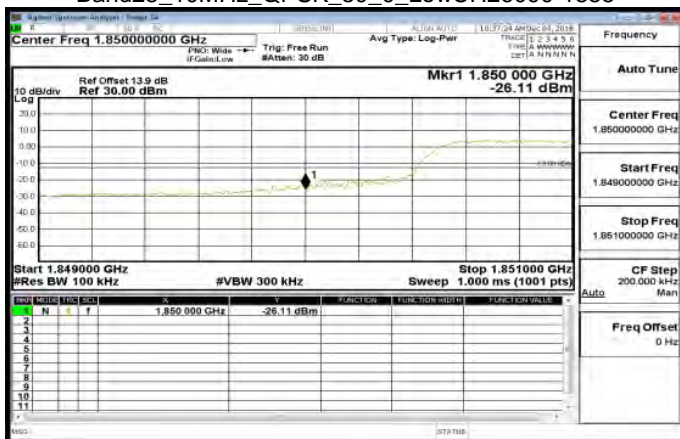
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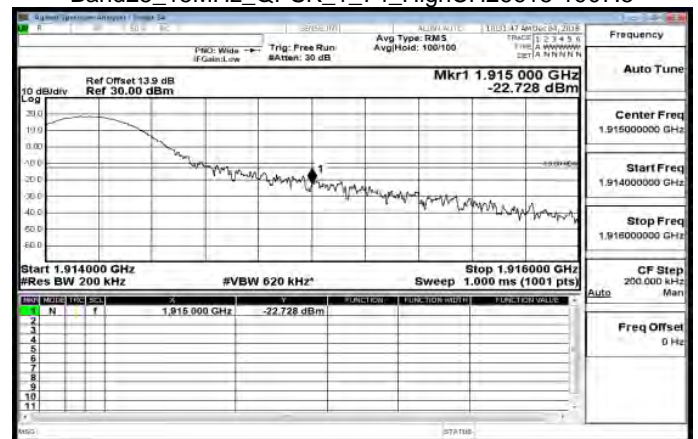
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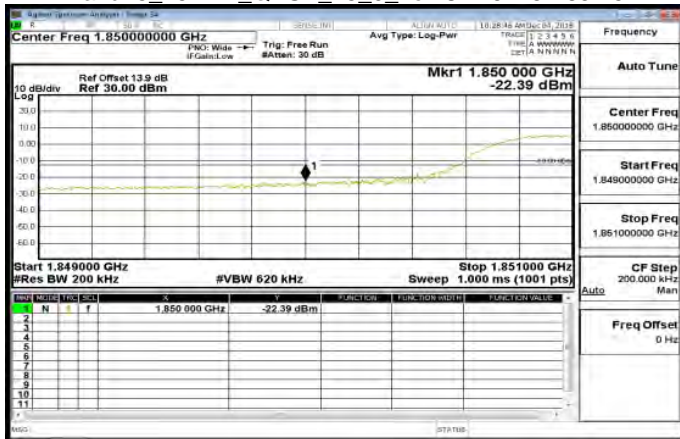
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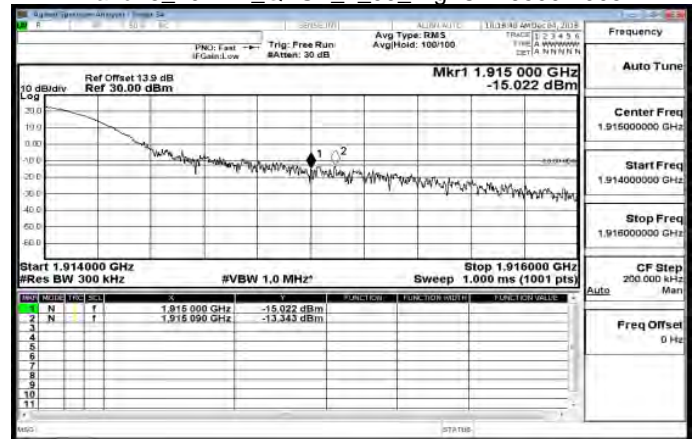
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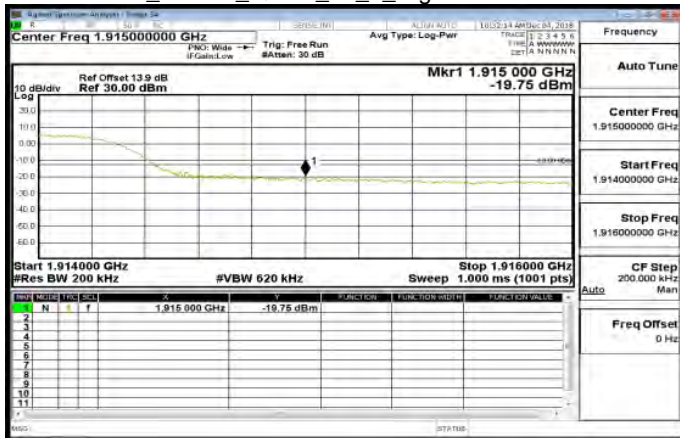
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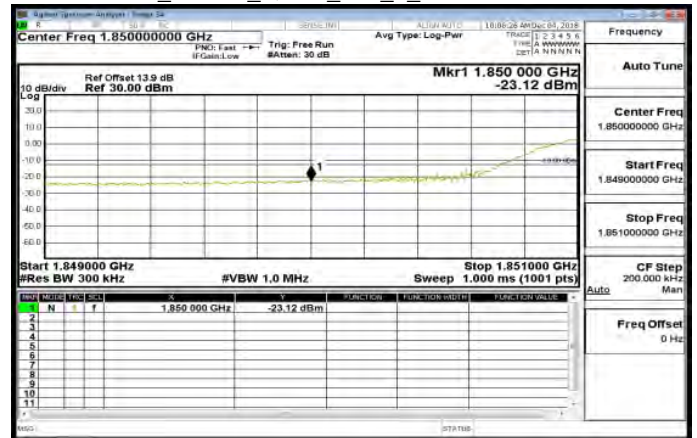
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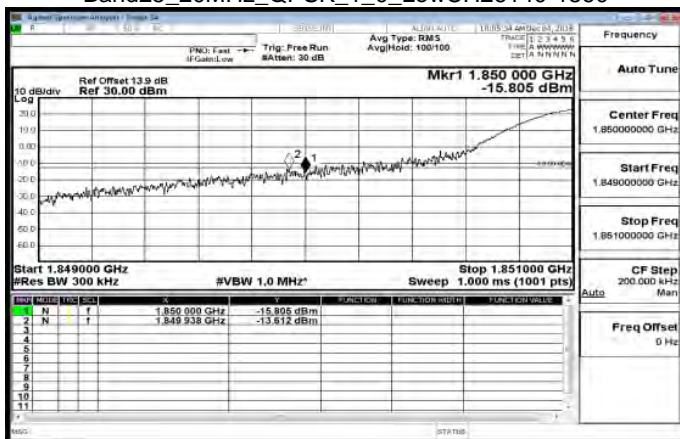
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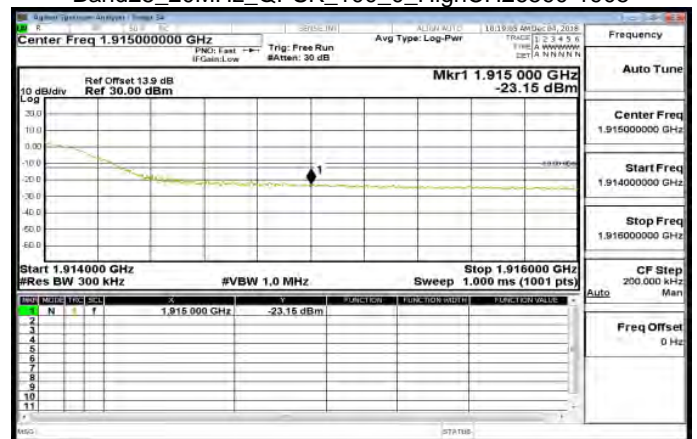
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Band25_20MHz_QPSK_100_0_HighCH26590-1905



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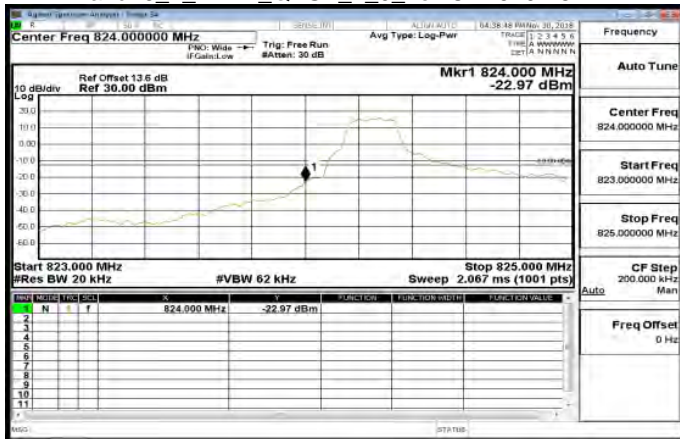
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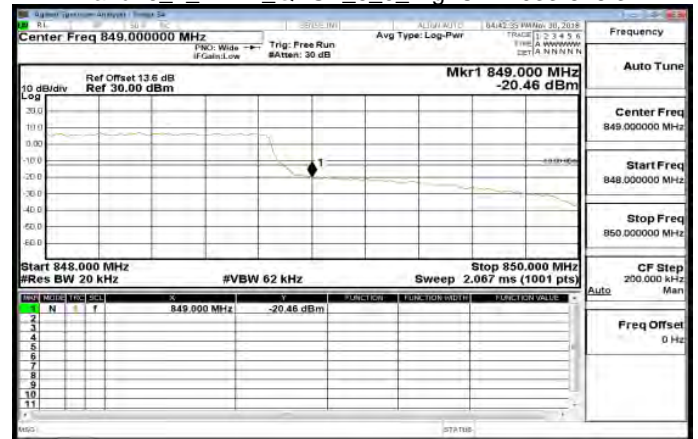
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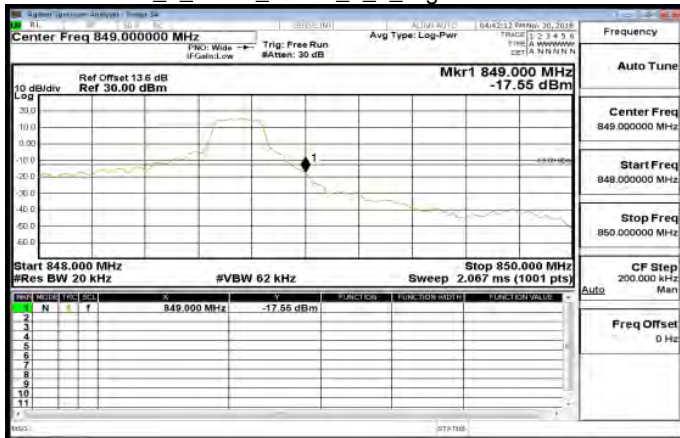
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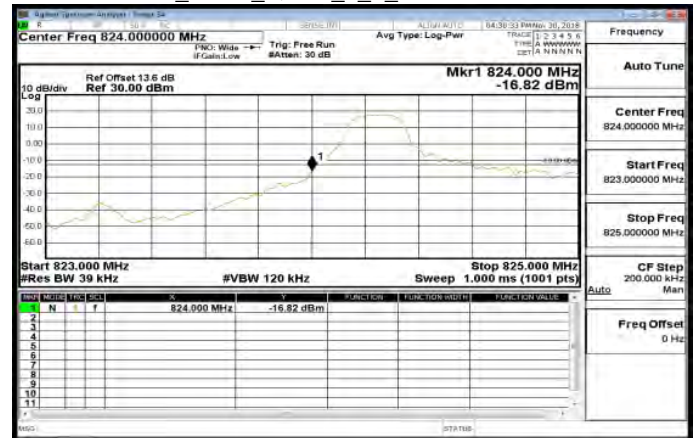
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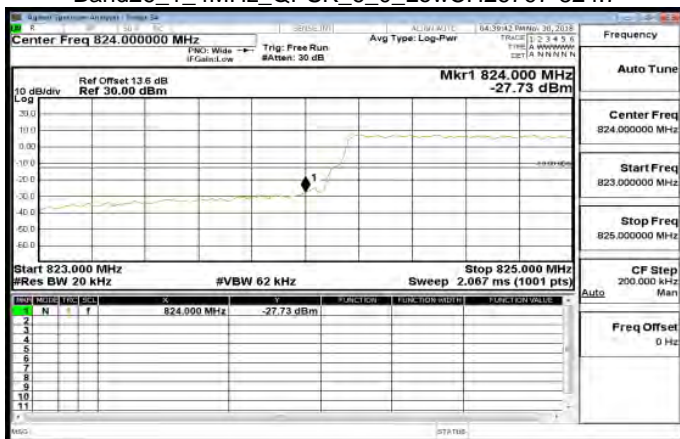
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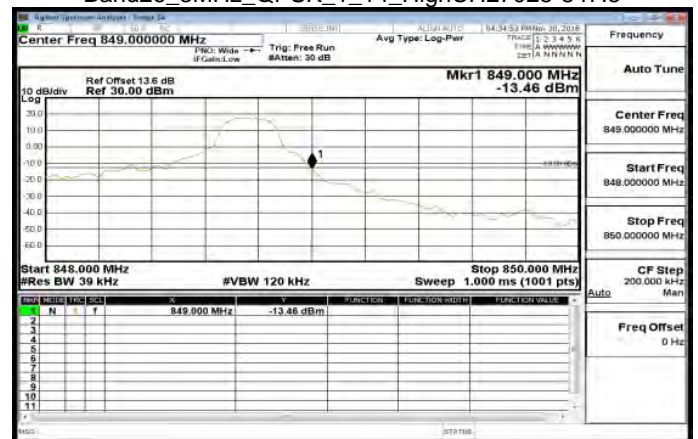
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Band26_1_4MHz_QPSK_6_0_LowCH26797-824.7



Band26_3MHz_QPSK_1_14_HighCH27025-847.5



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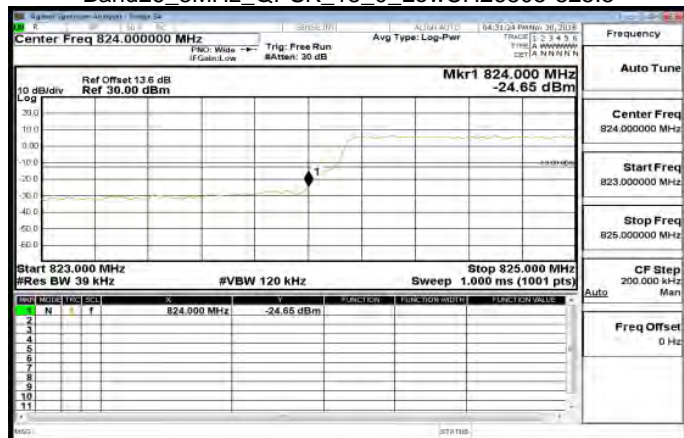
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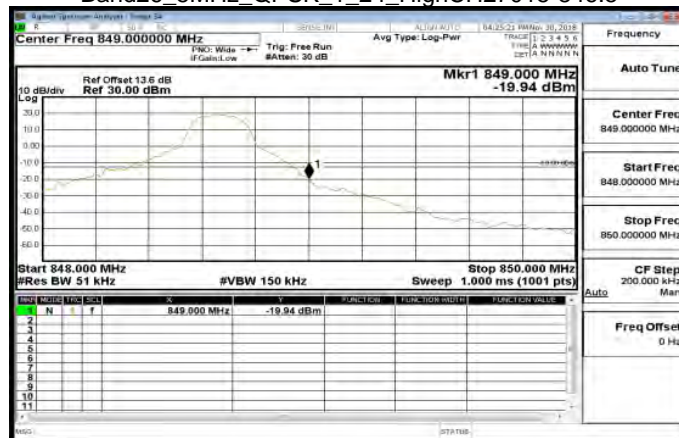
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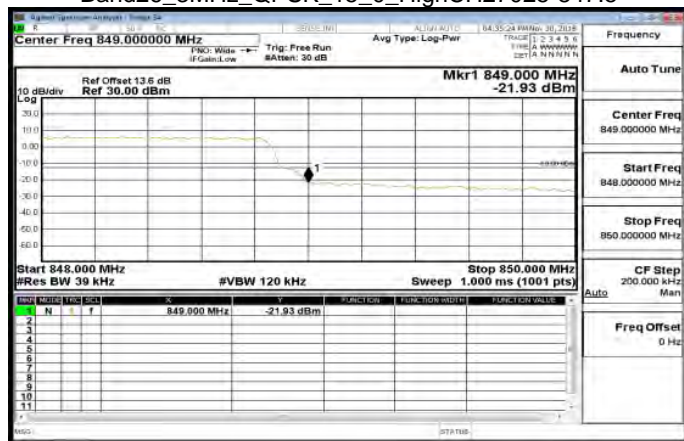
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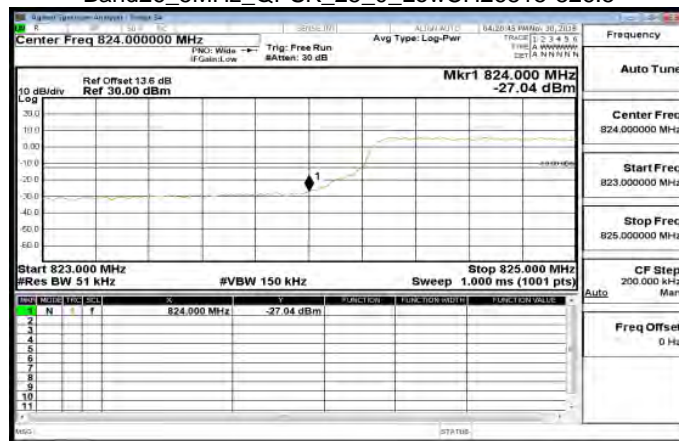
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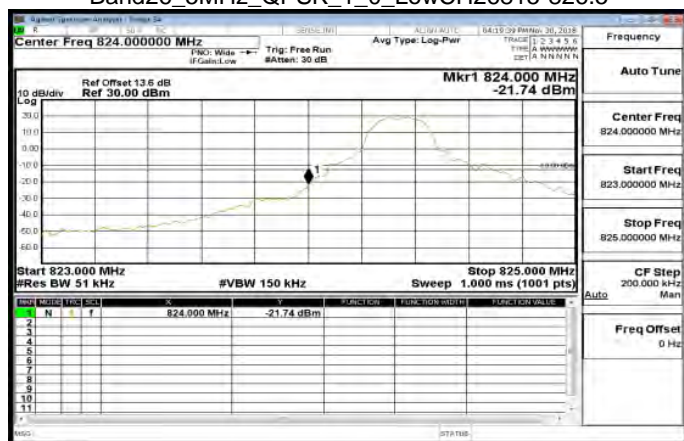
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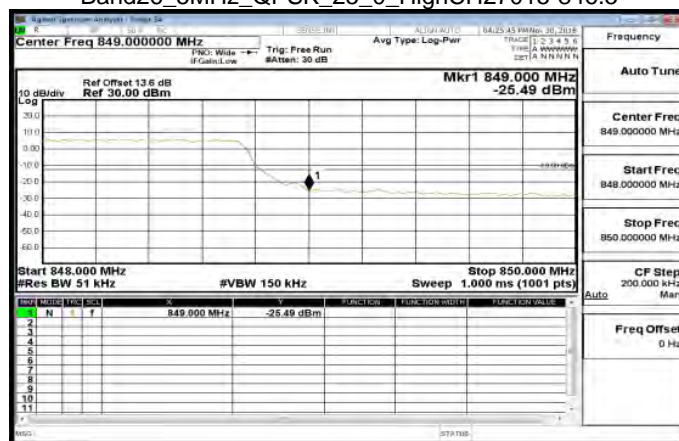
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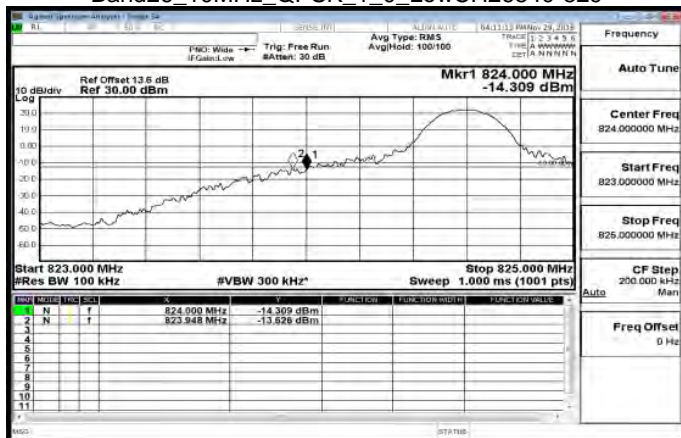
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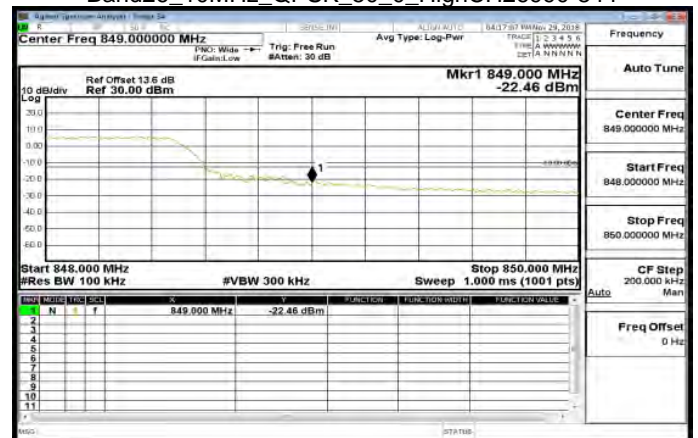
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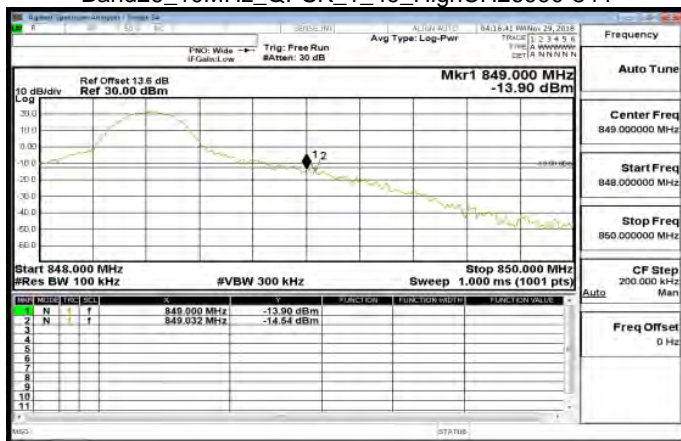
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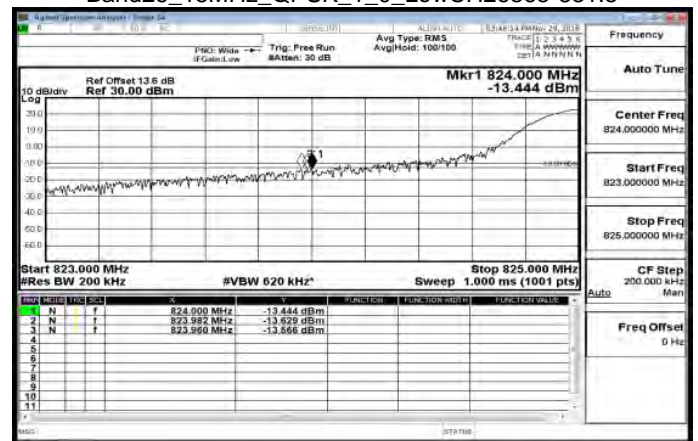
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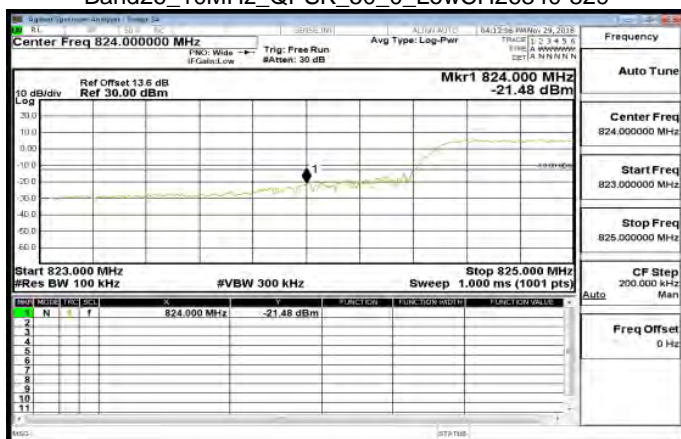
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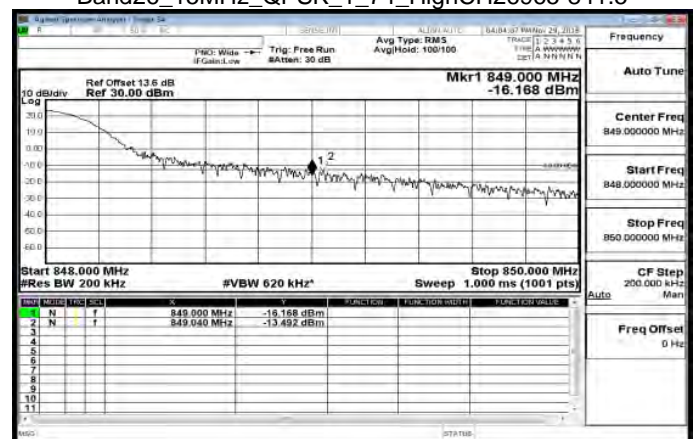
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Band26_15MHz_QPSK_1_74_HighCH26965-841.5



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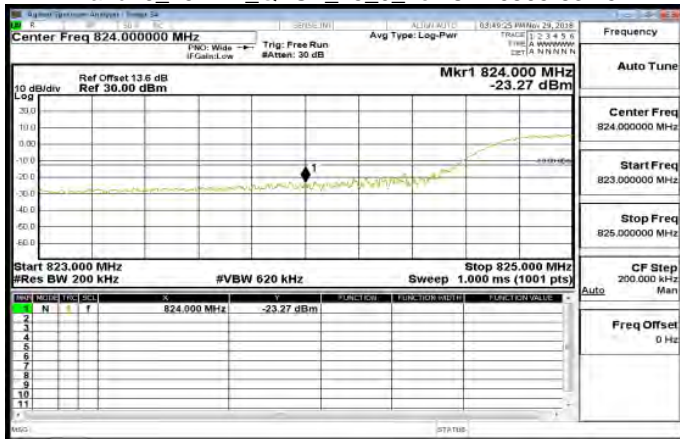
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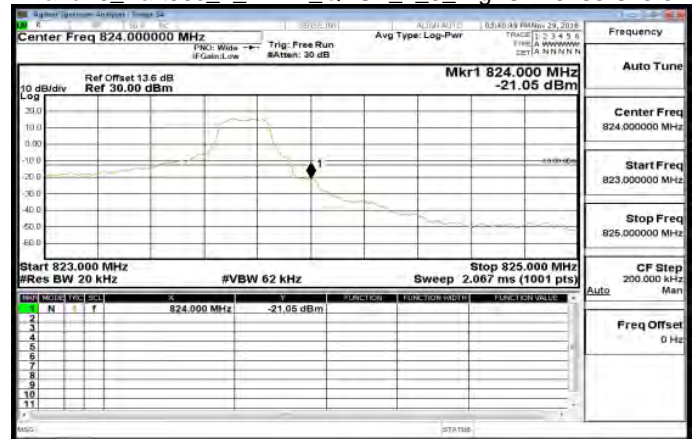
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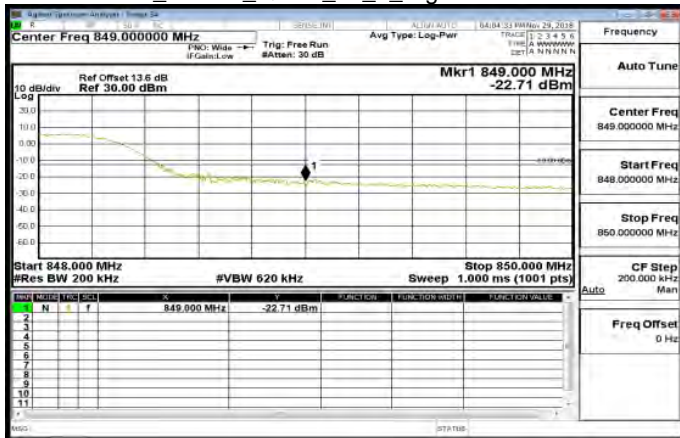
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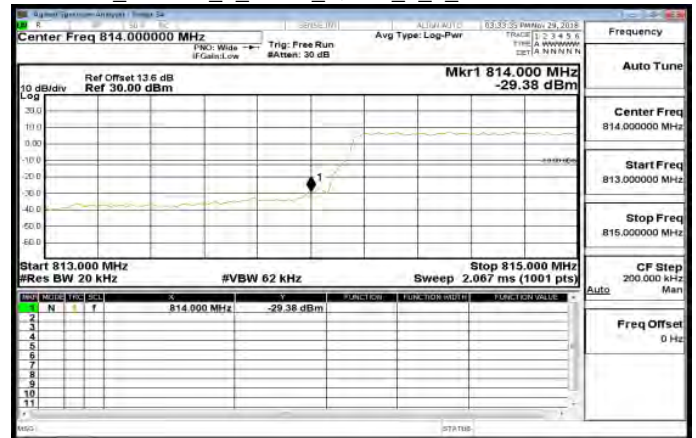
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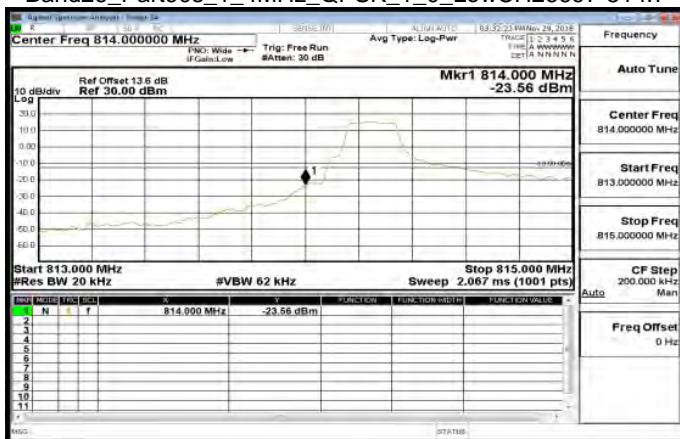
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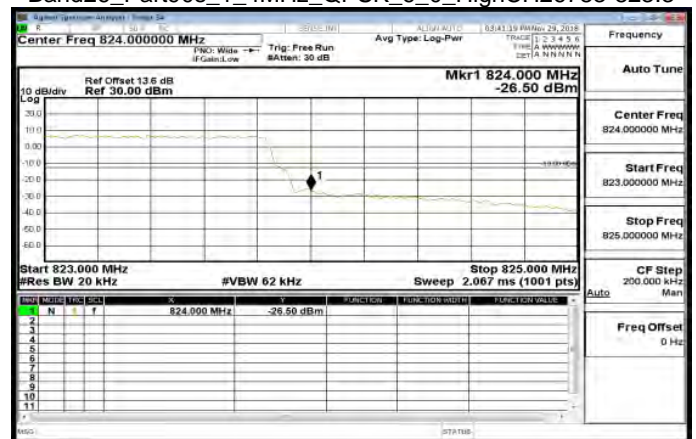
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Band26_Part90s_1_4MHz_QPSK_6_0_HighCH26783-823.3



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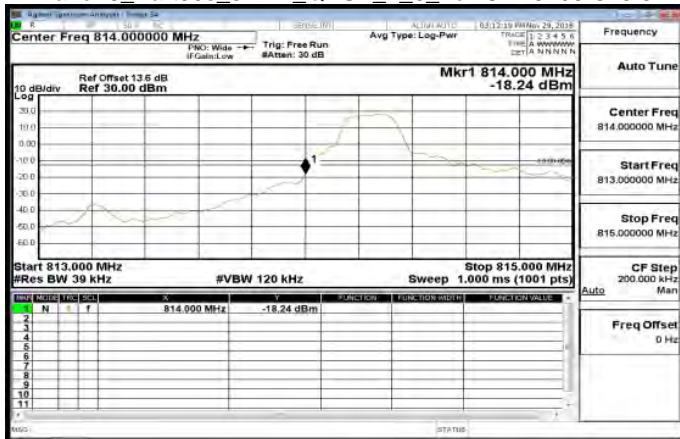
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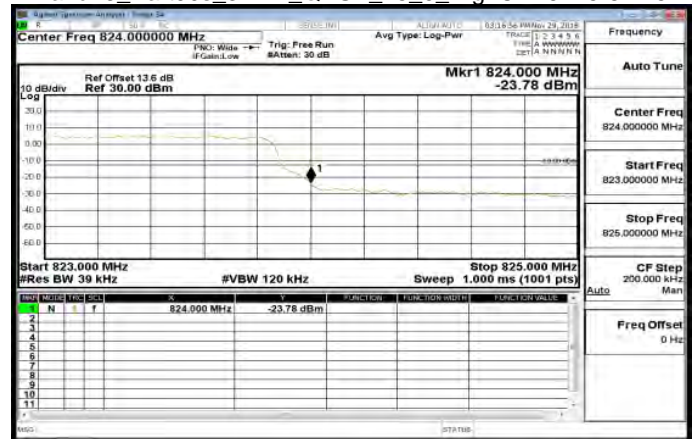
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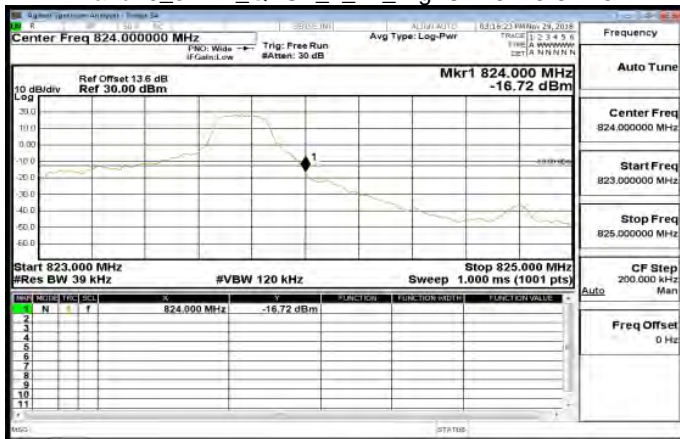
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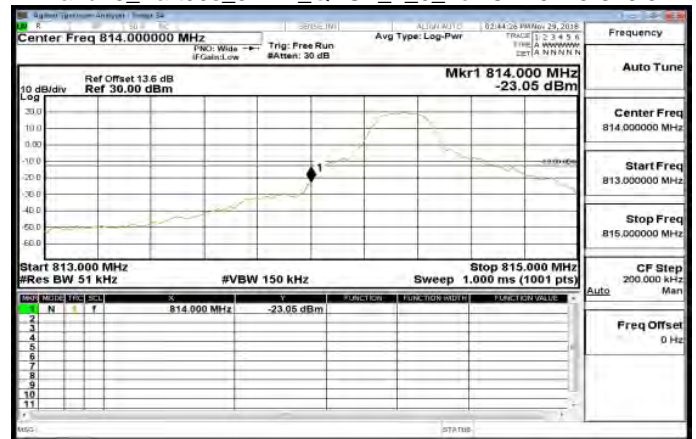
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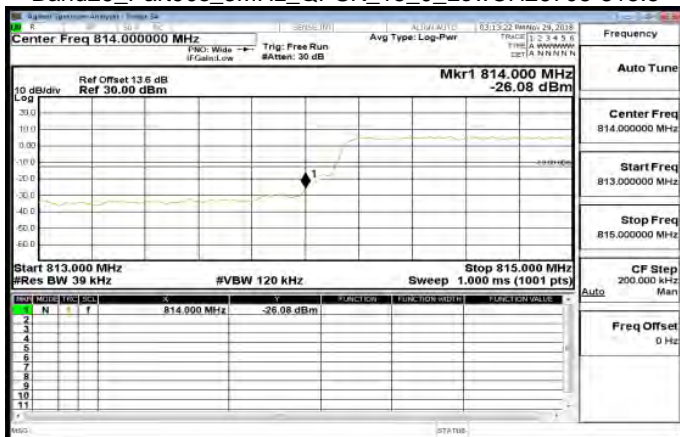
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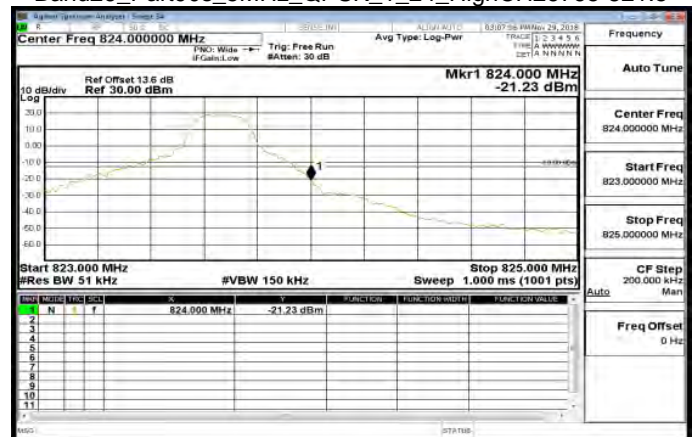
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Band26_Part90s_5MHz_QPSK_1_24_HighCH26765-821.5



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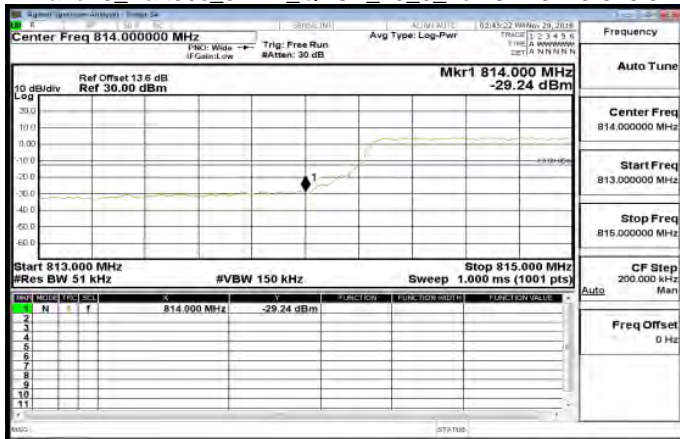
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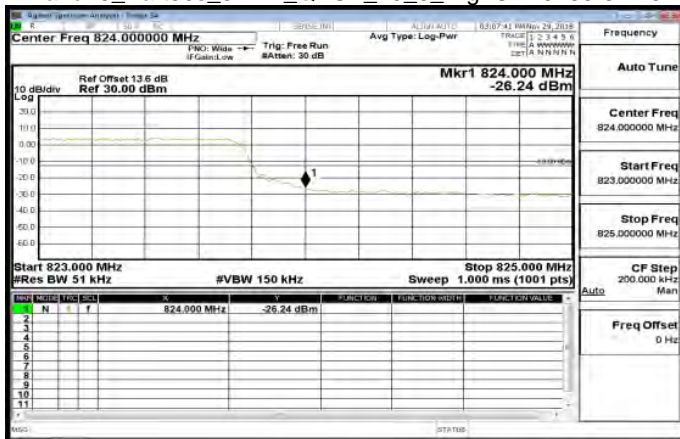
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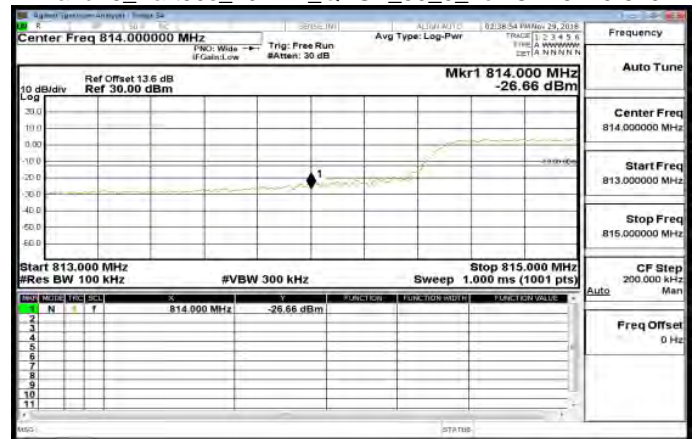
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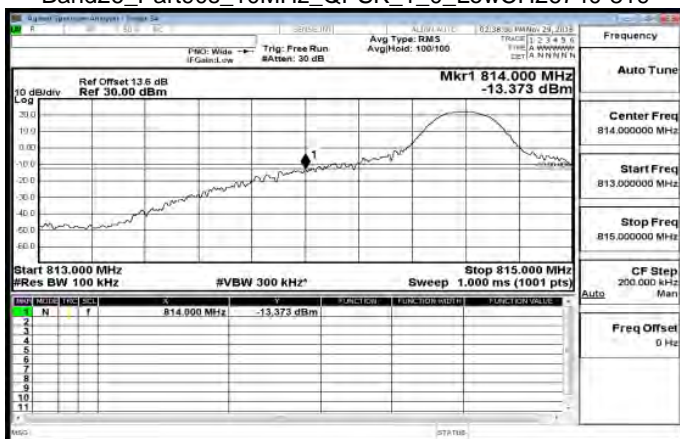
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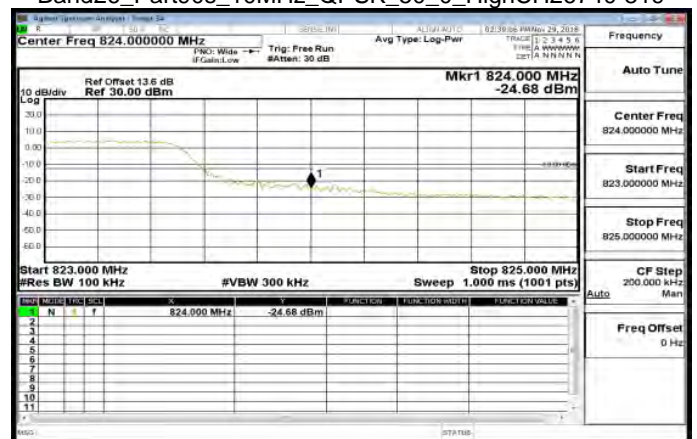
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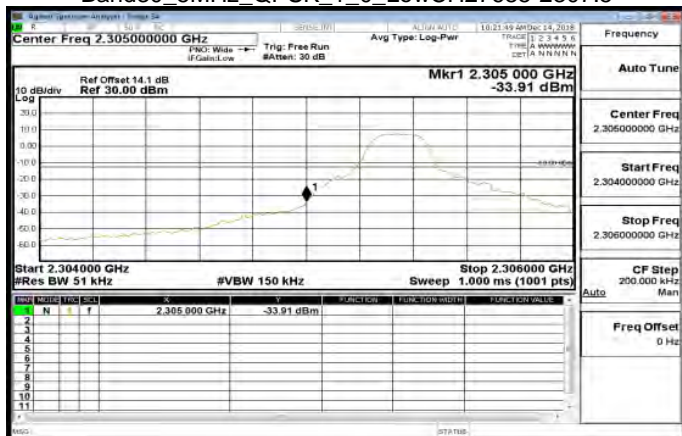
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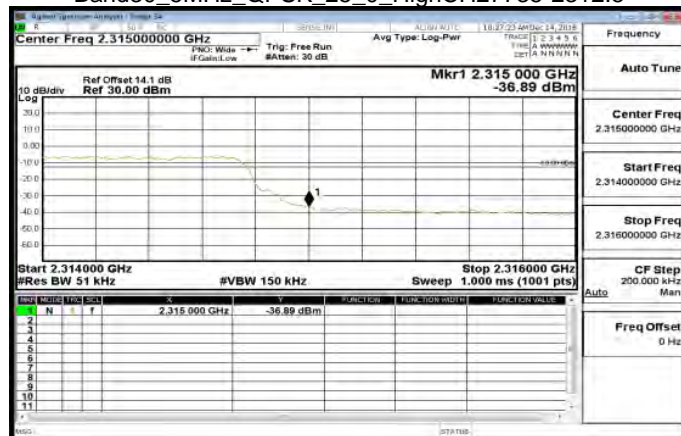
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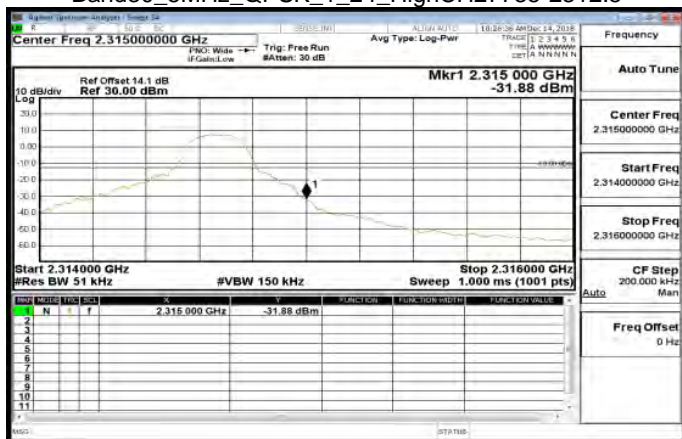
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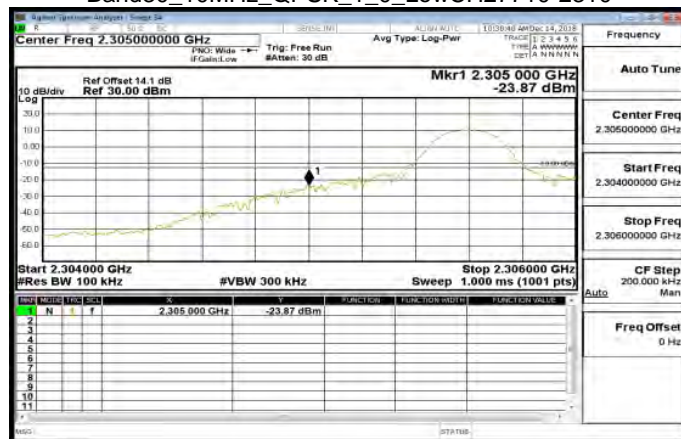
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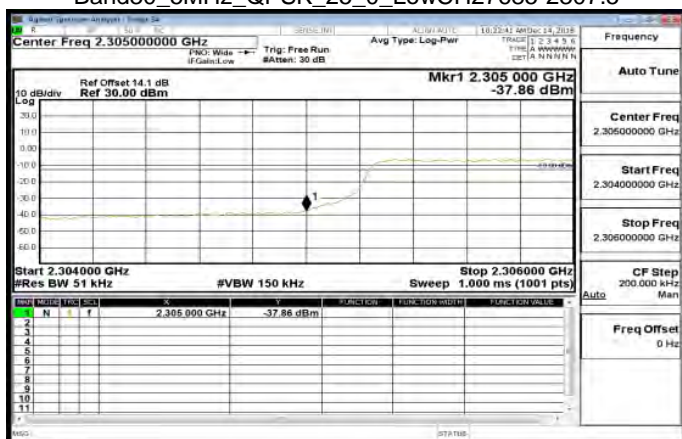
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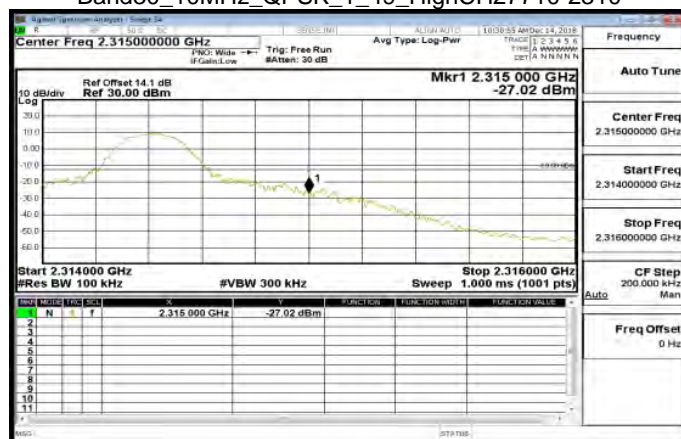
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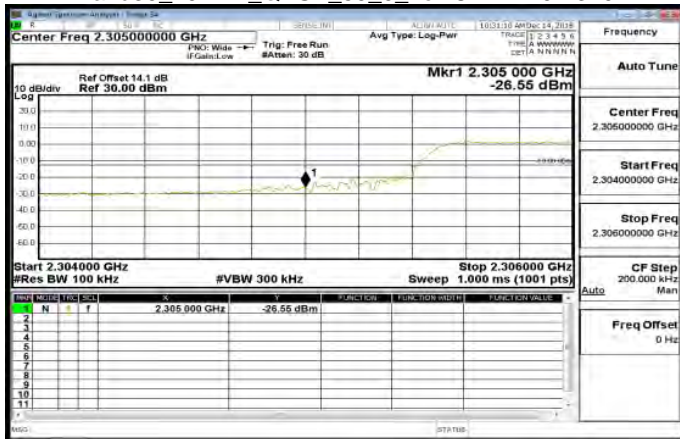
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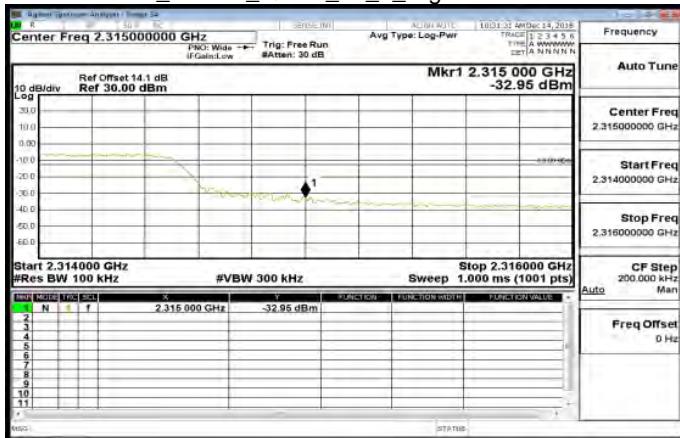
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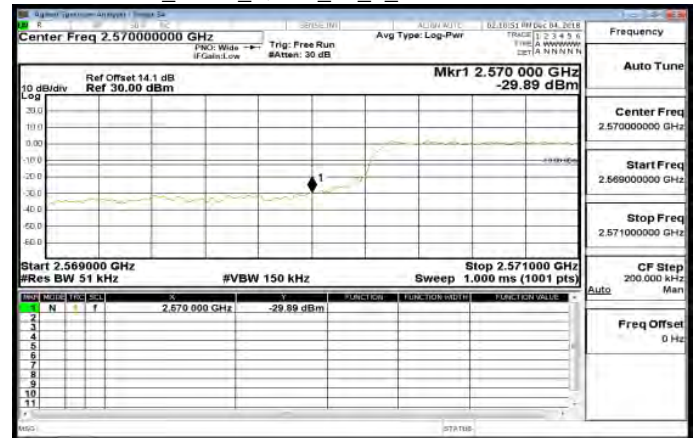
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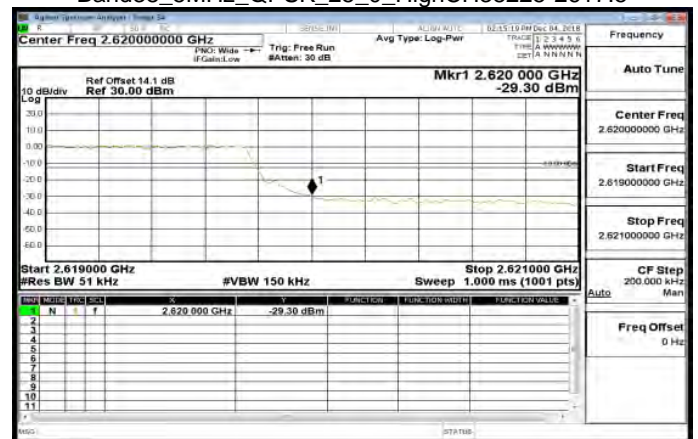
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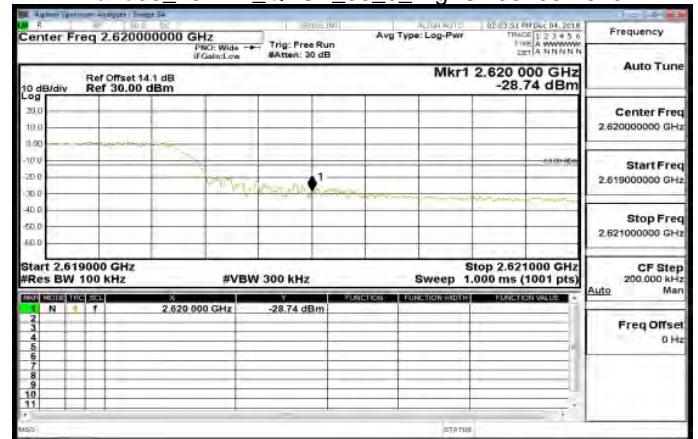
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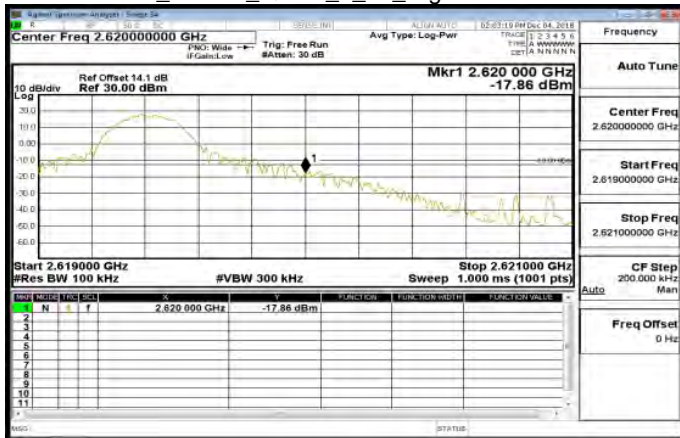
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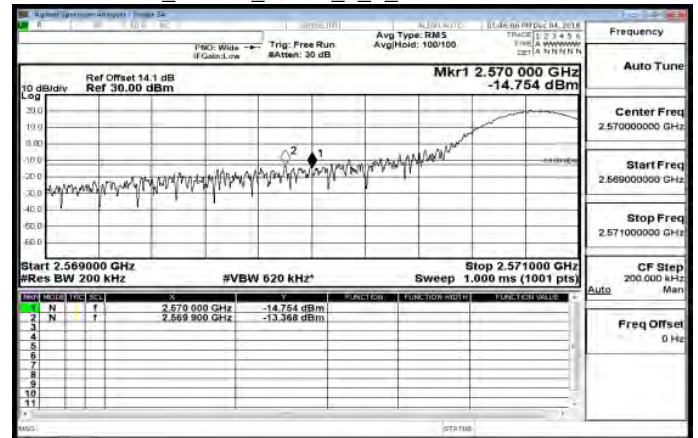
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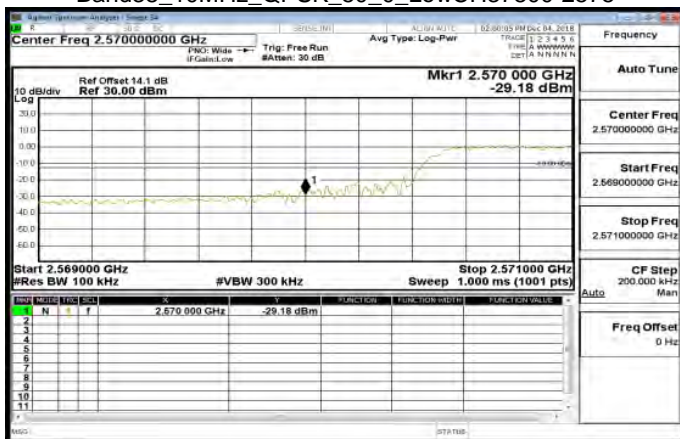
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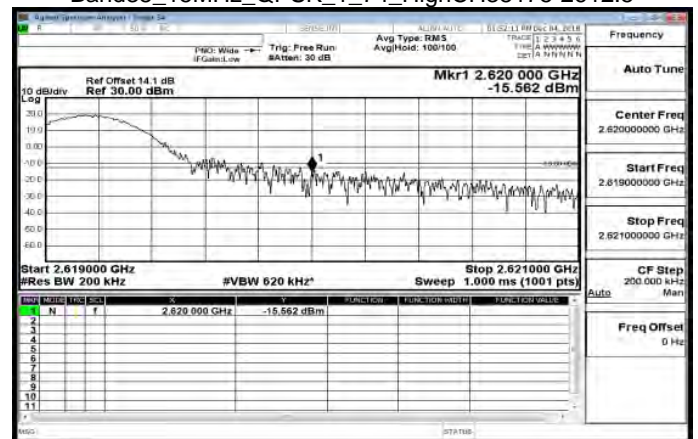
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Band38_10MHz_QPSK_50_0_LowCH37800-2575



Band38_15MHz_QPSK_1_74_HighCH38175-2612.5



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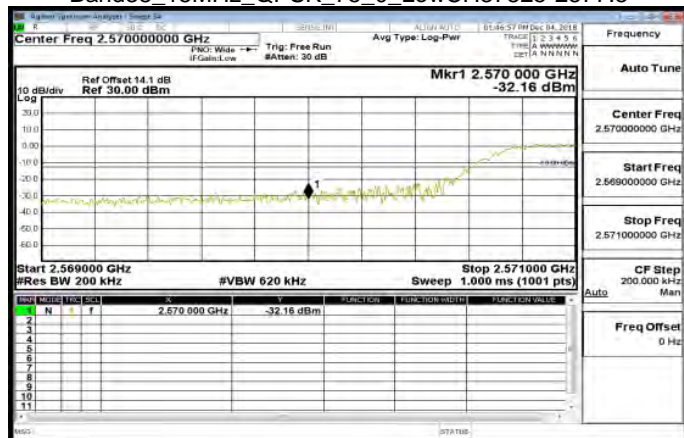
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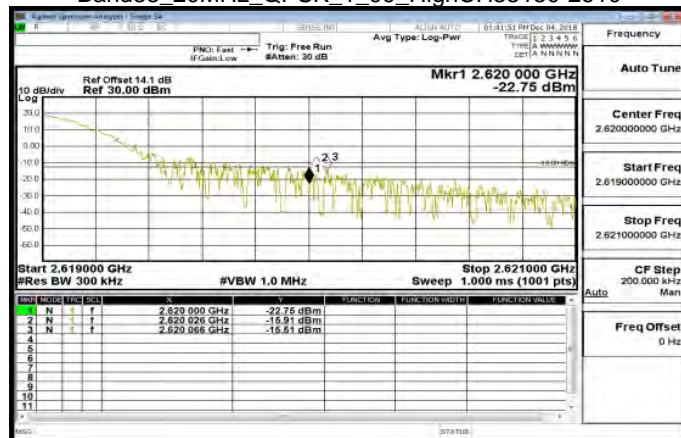
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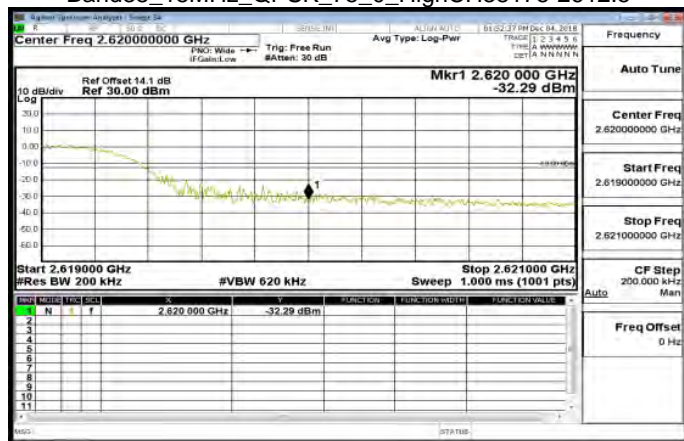
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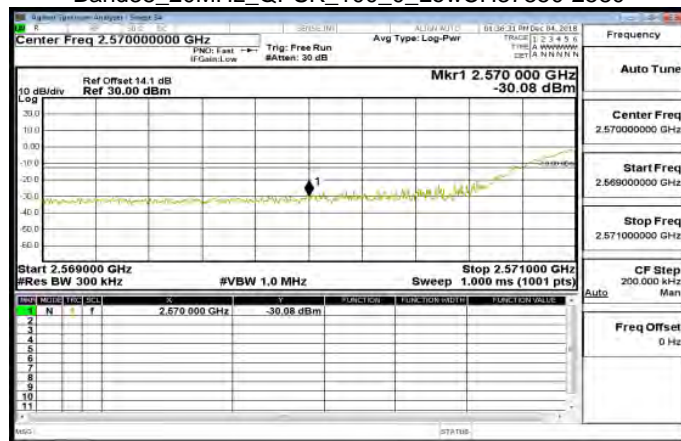
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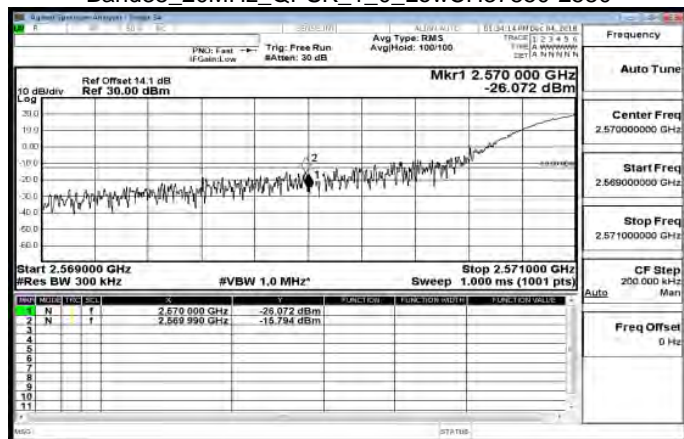
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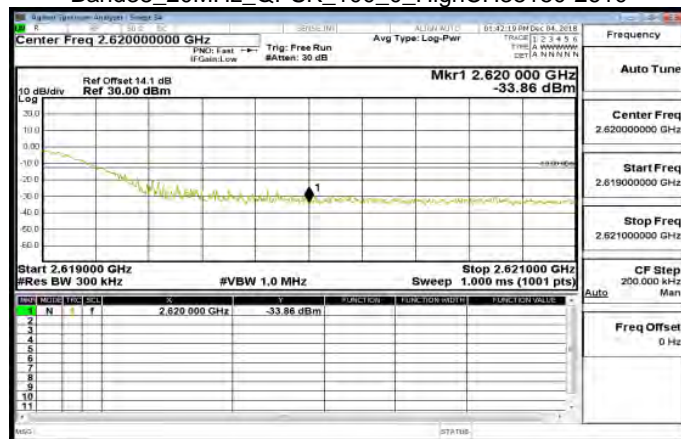
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Band38_20MHz_QPSK_1_0_LowCH37850-2580



Band38_20MHz_QPSK_100_0_HighCH38150-2610



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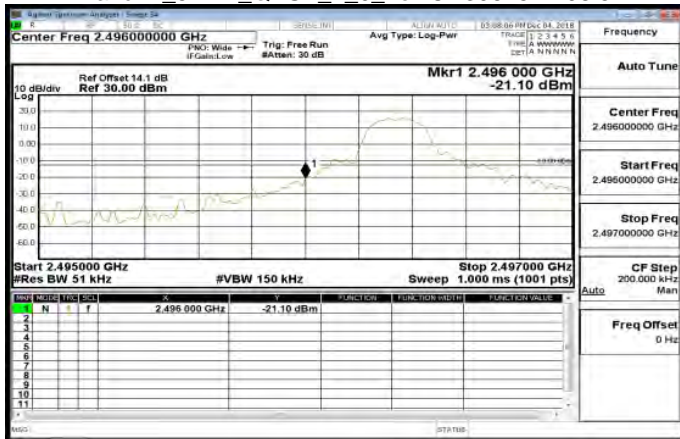
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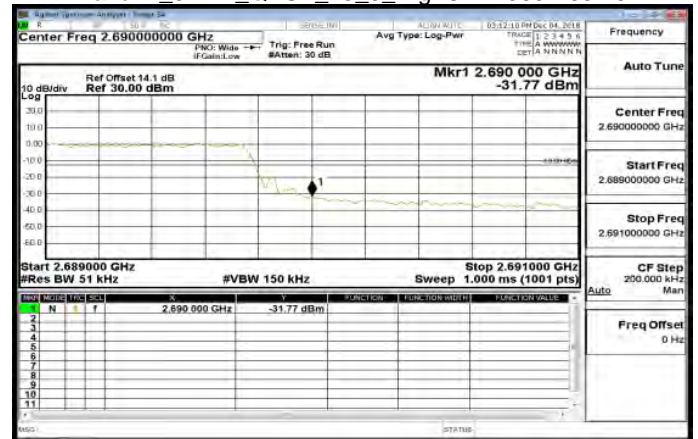
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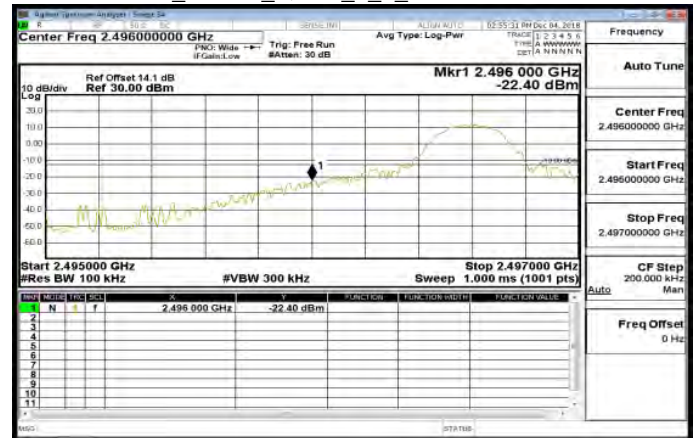
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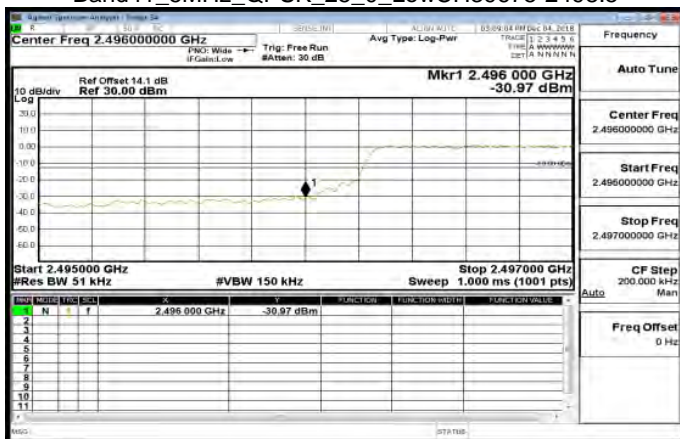
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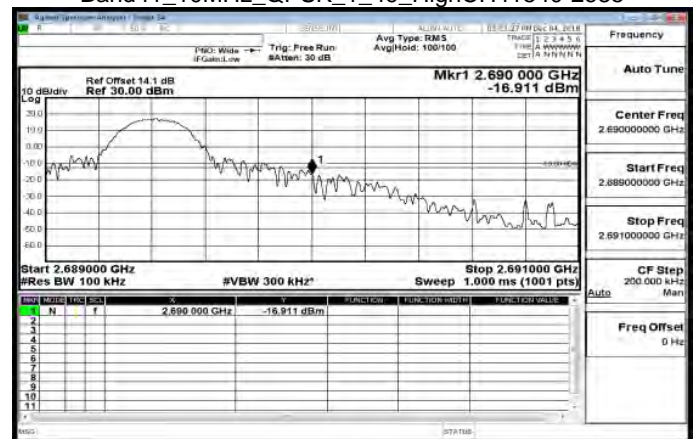
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Band41_10MHz_QPSK_1_49_HighCH41540-2685



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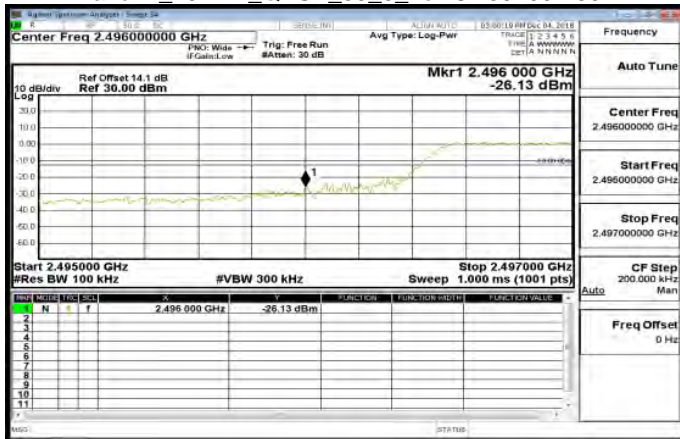
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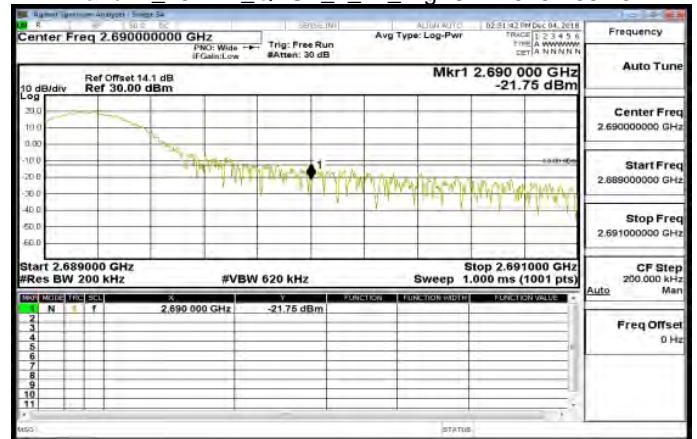
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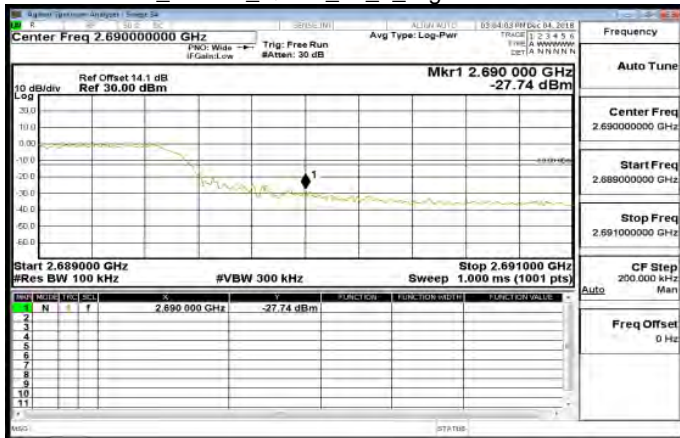
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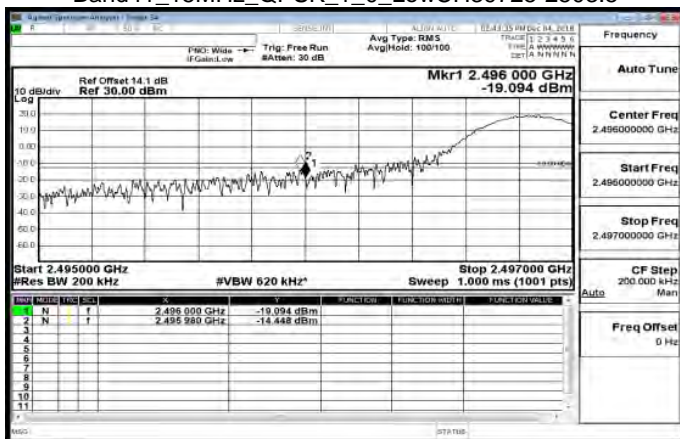
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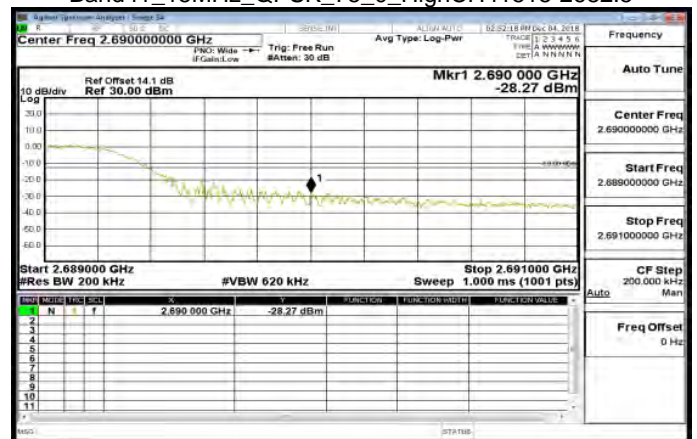
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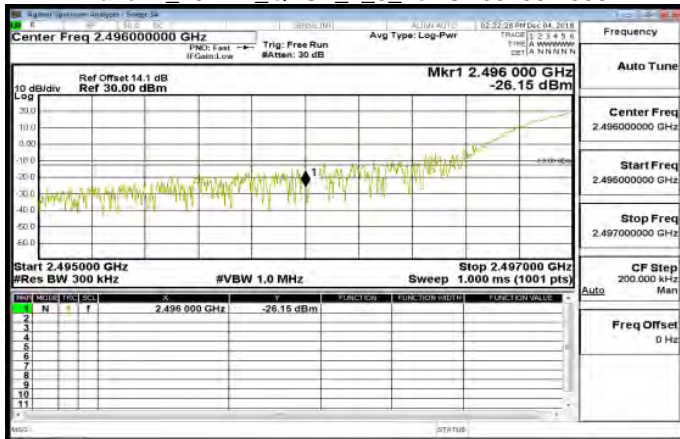
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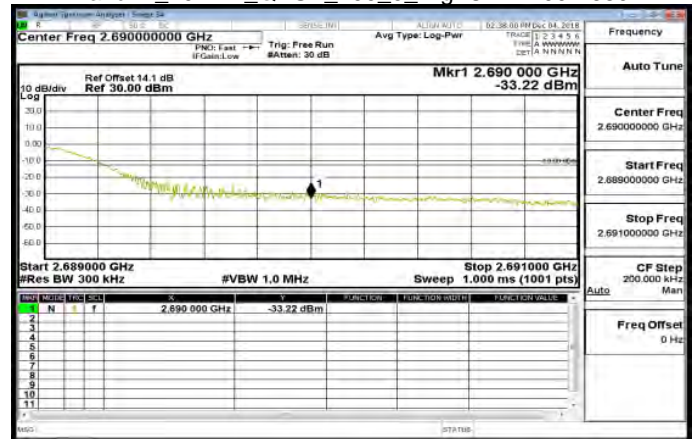
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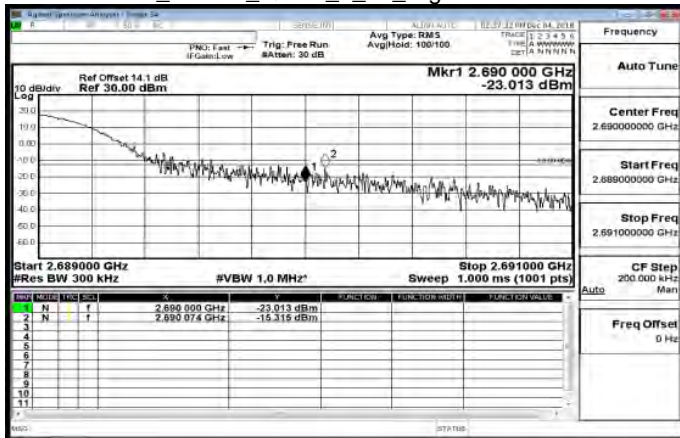
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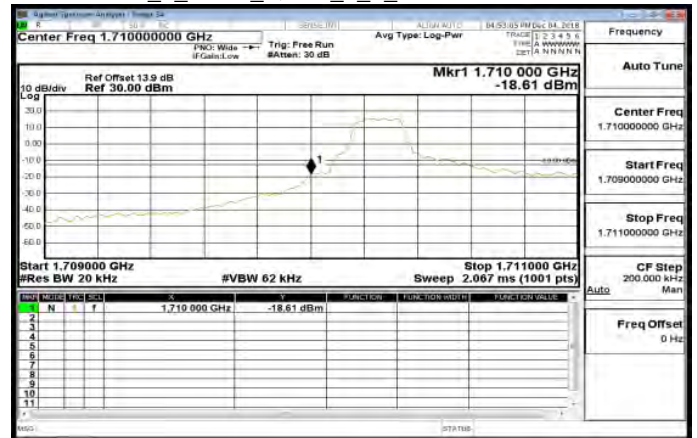
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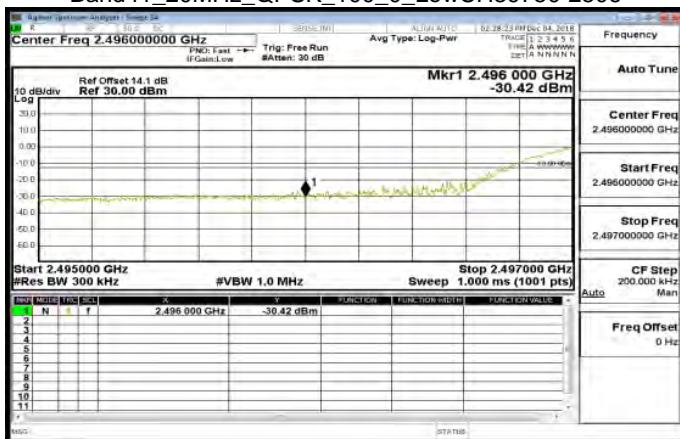
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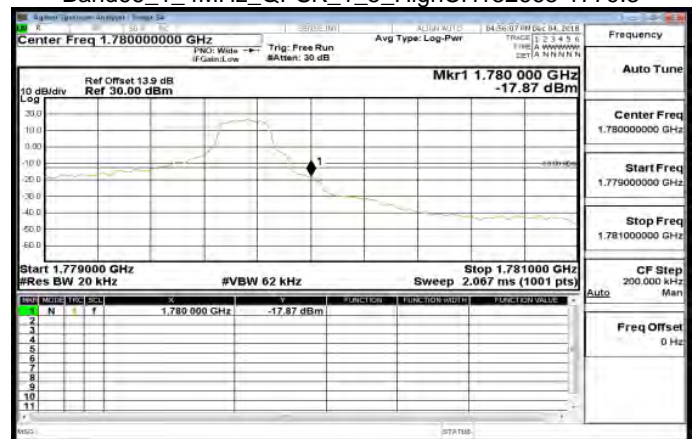
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Band66_1_4MHz_QPSK_1_5_HighCH132665-1779.3



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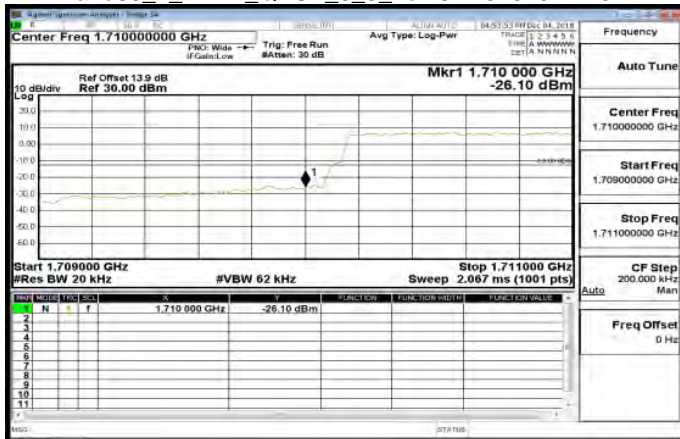
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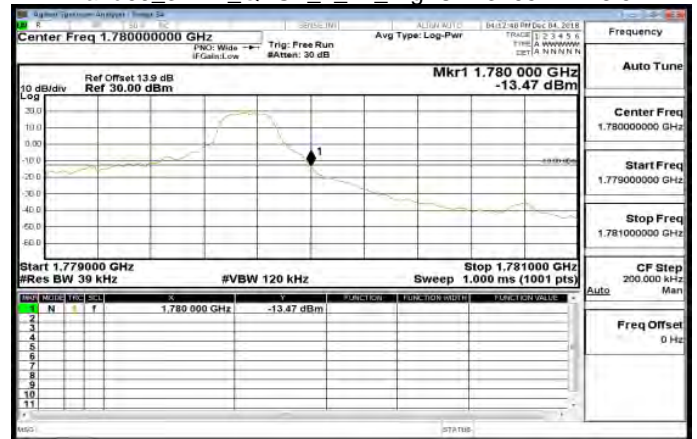
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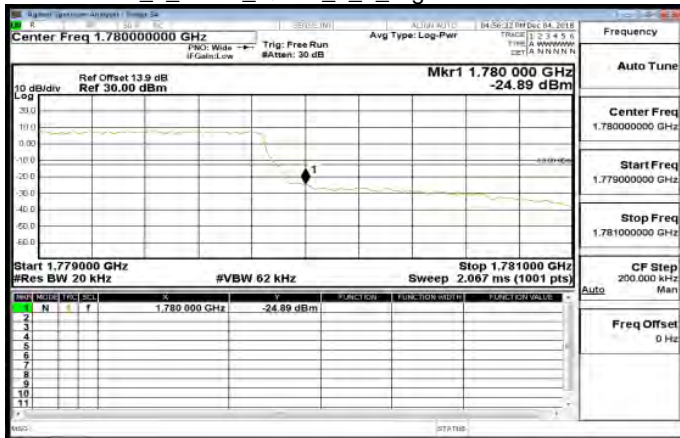
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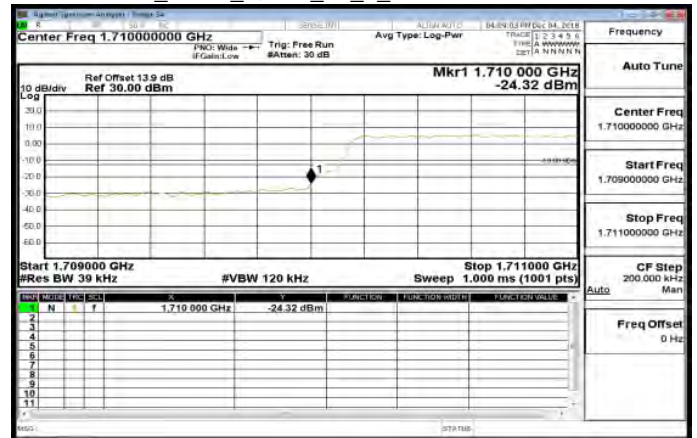
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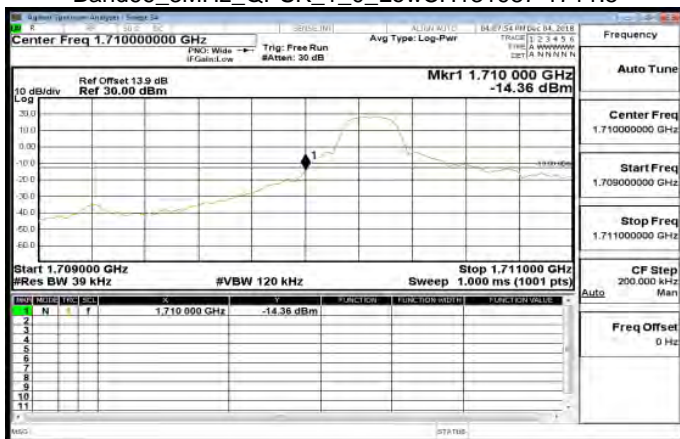
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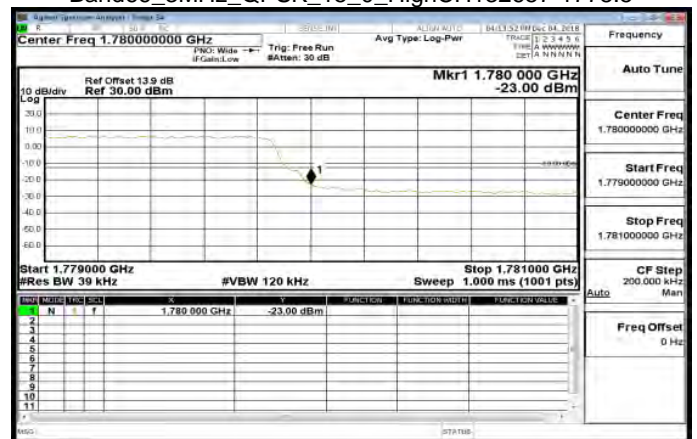
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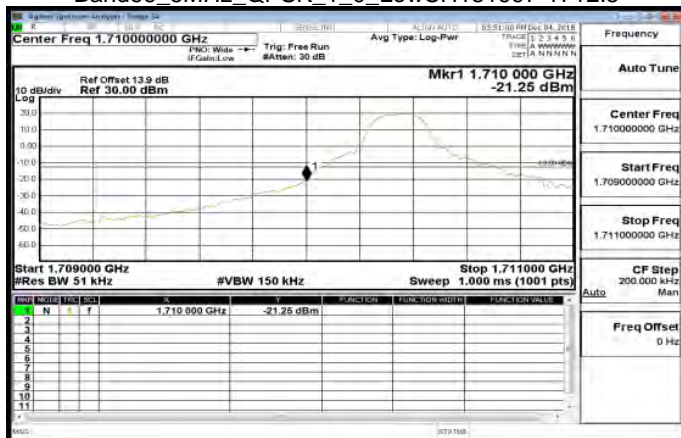
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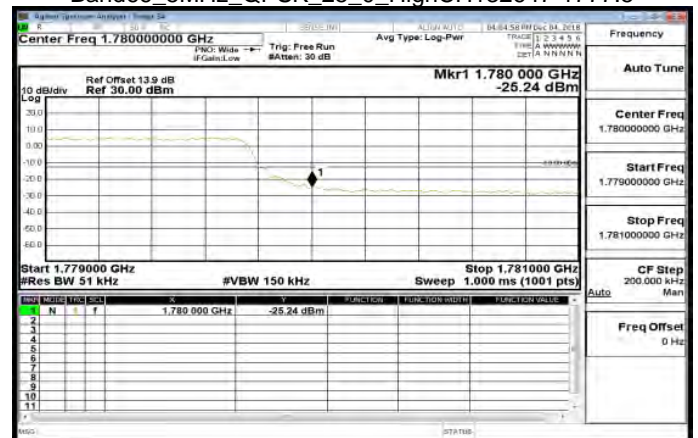
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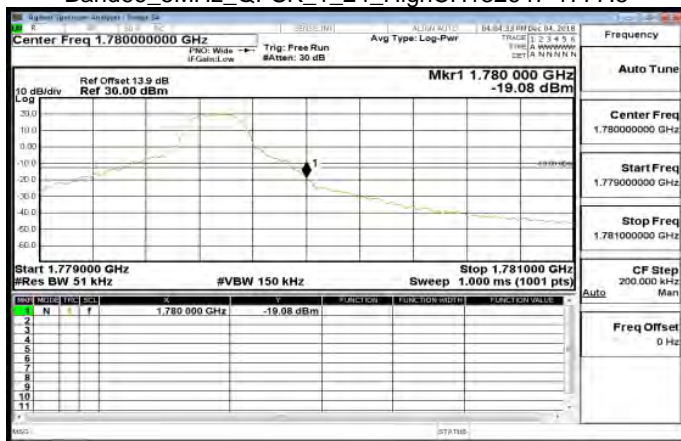
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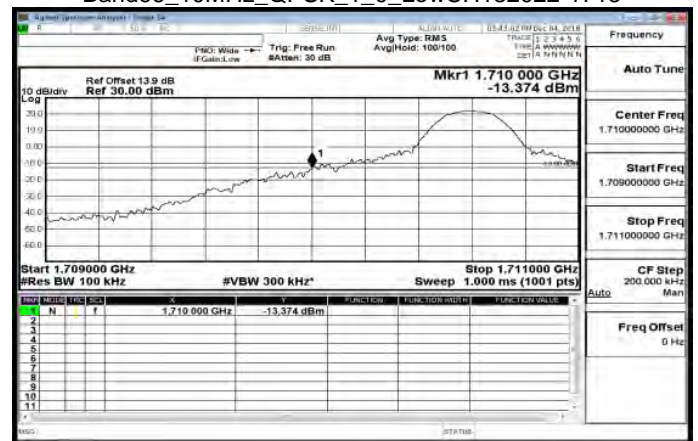
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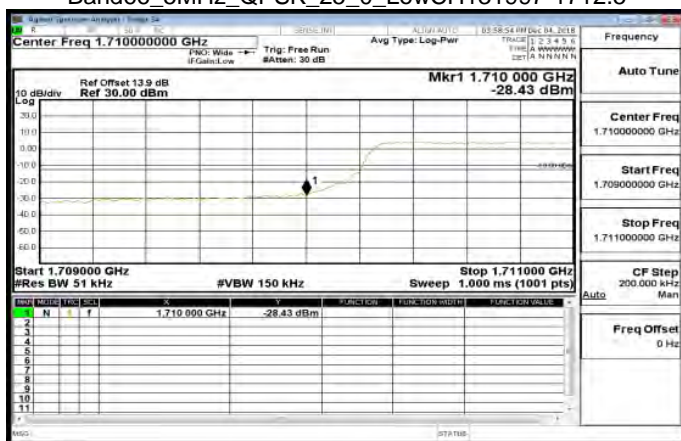
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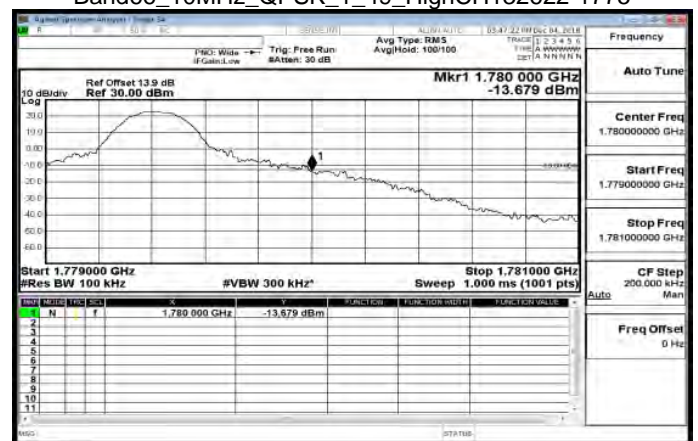
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Band66_5MHz_QPSK_25_0_LowCH131997-1712.5



Band66_10MHz_QPSK_1_49_HighCH132622-1775



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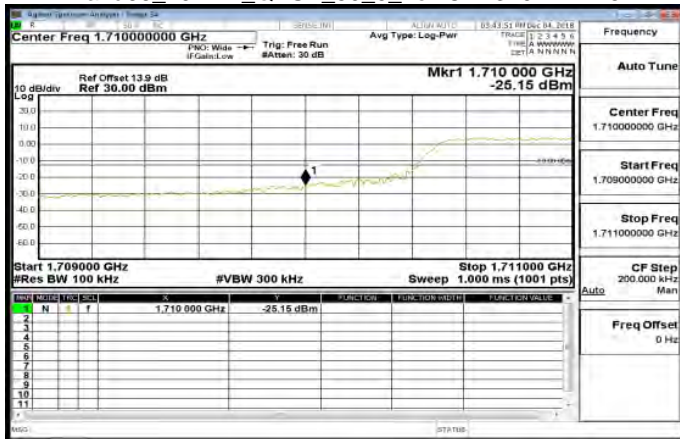
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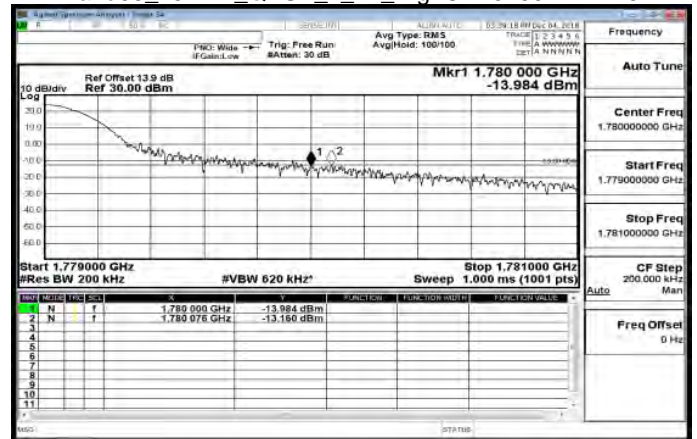
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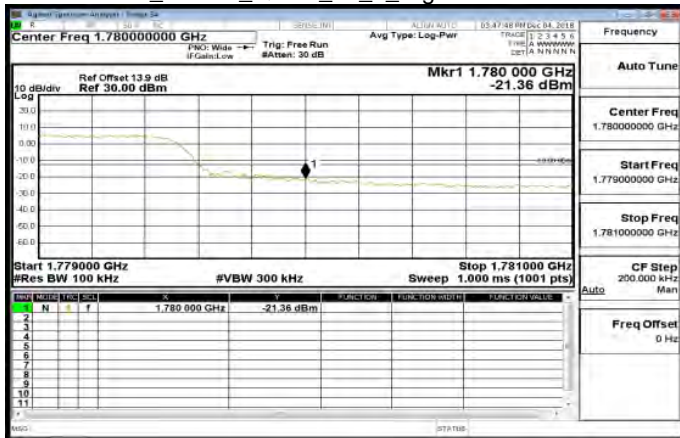
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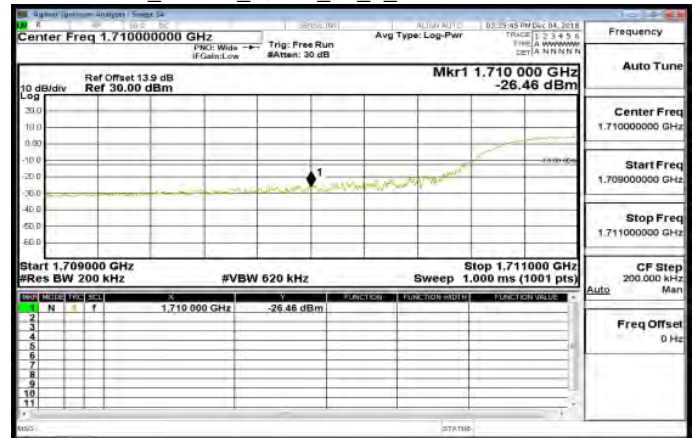
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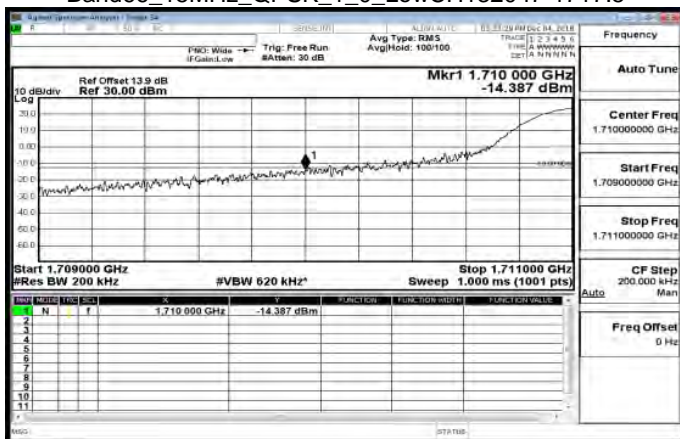
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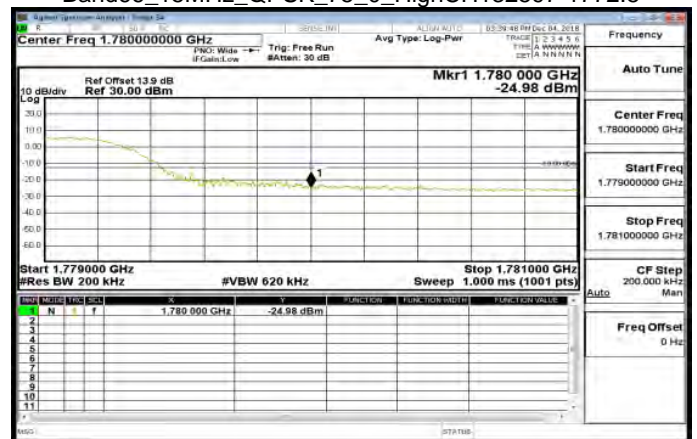
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Band66_15MHz_QPSK_75_0_HighCH132597-1772.5



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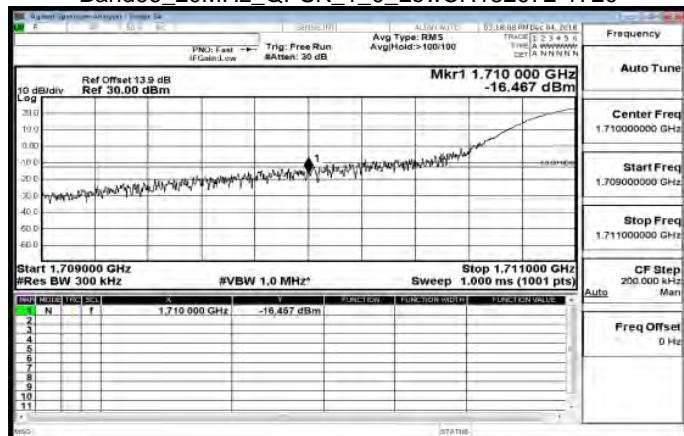
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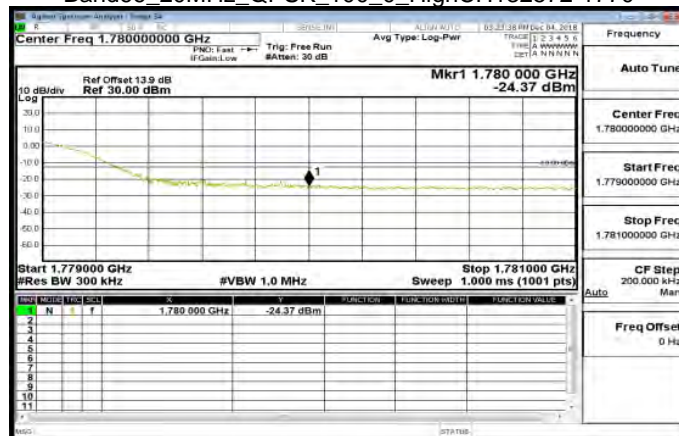
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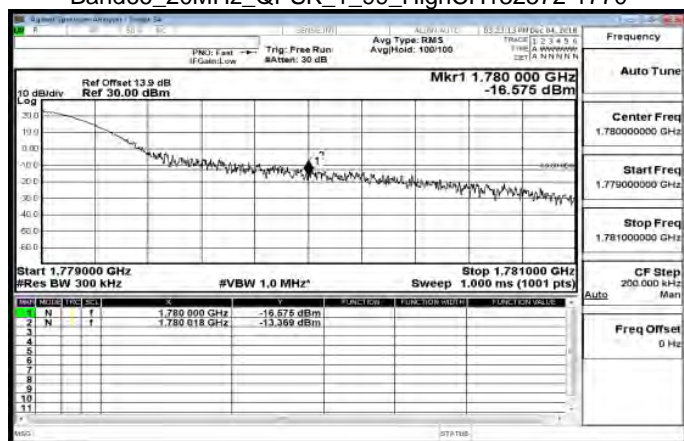
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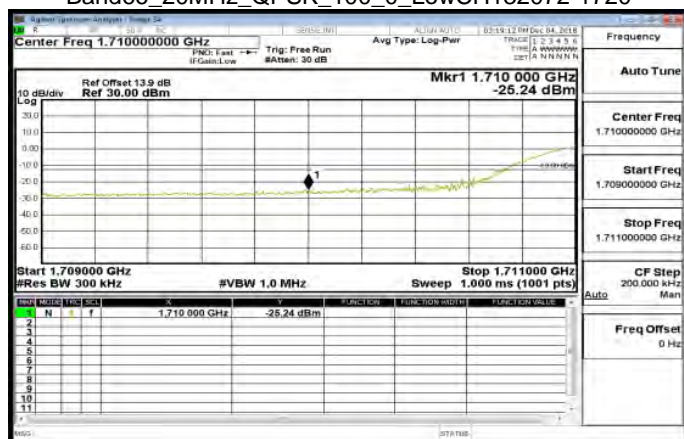
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Band66_20MHz_QPSK_1_99_HighCH132572-1770



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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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