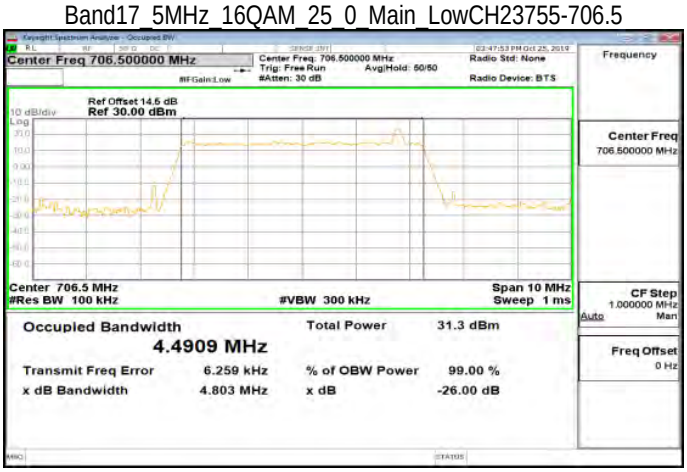
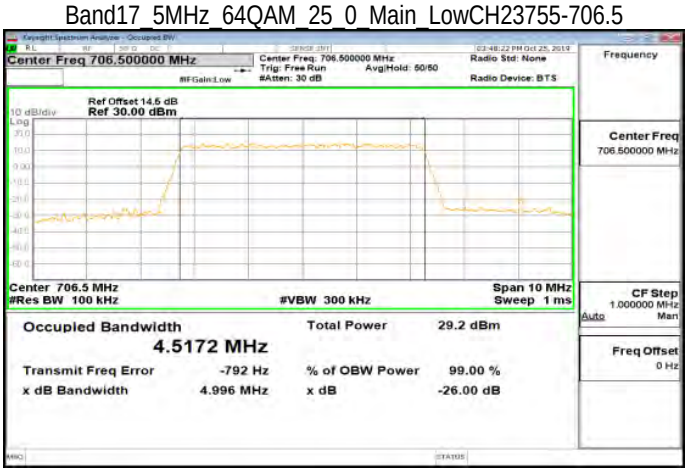
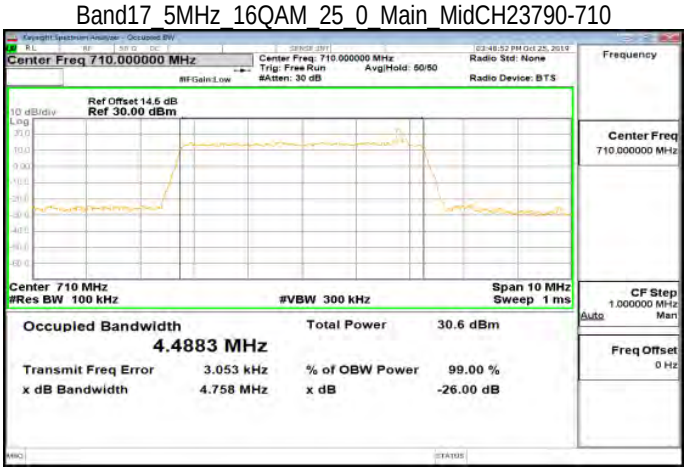
Band17_5MHz_16QAM_25_0_Main_LowCH23755-706.5



Band17_5MHz_64QAM_25_0_Main_LowCH23755-706.5



Band17_5MHz_16QAM_25_0_Main_MidCH23790-710



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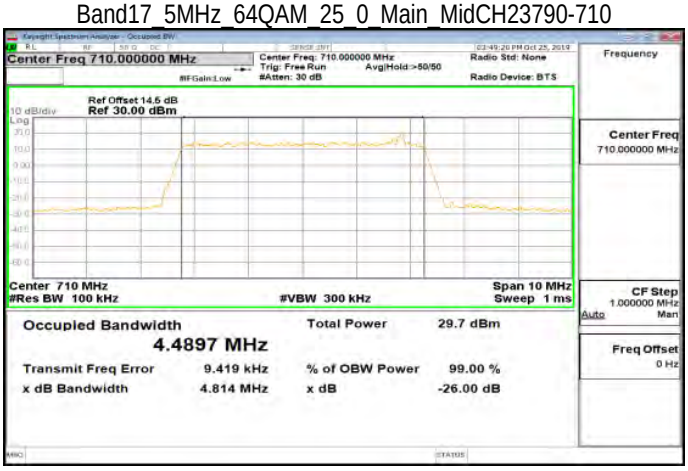

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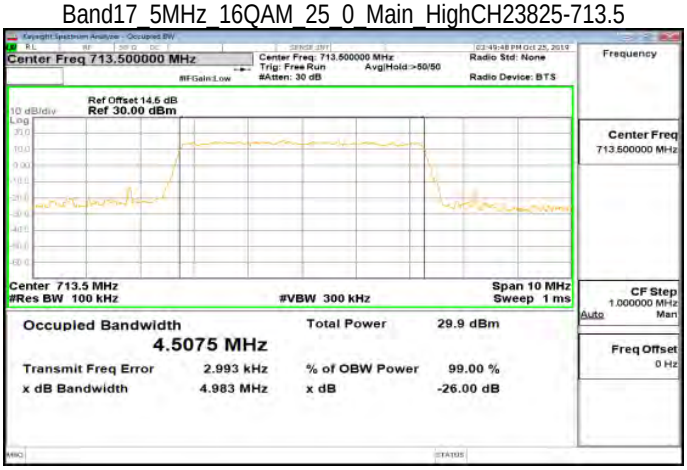

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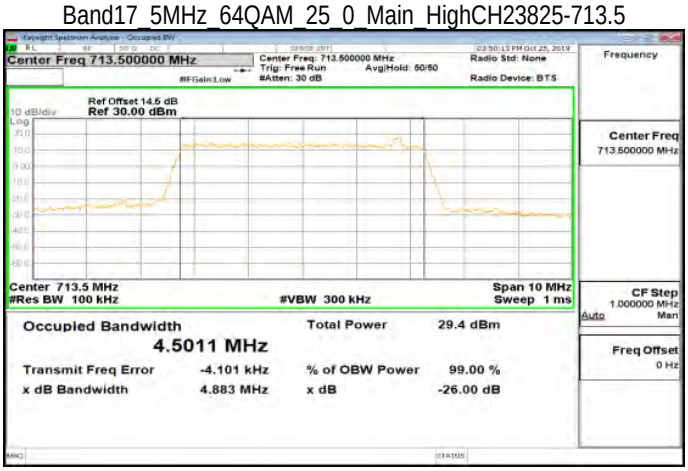

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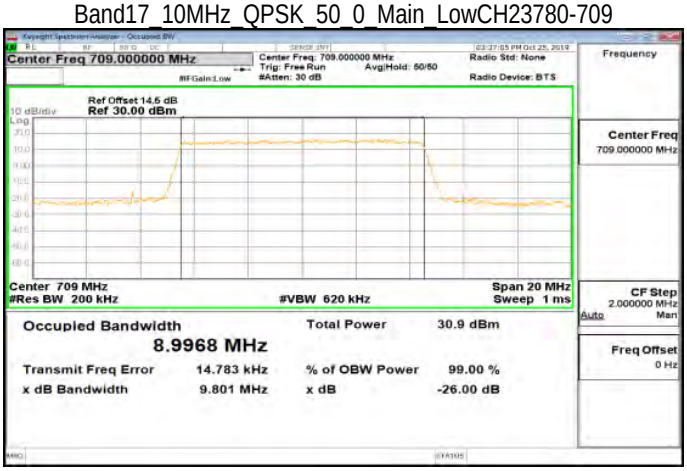
Band17_10MHz_QPSK_50_0_Main_LowCH23780-709



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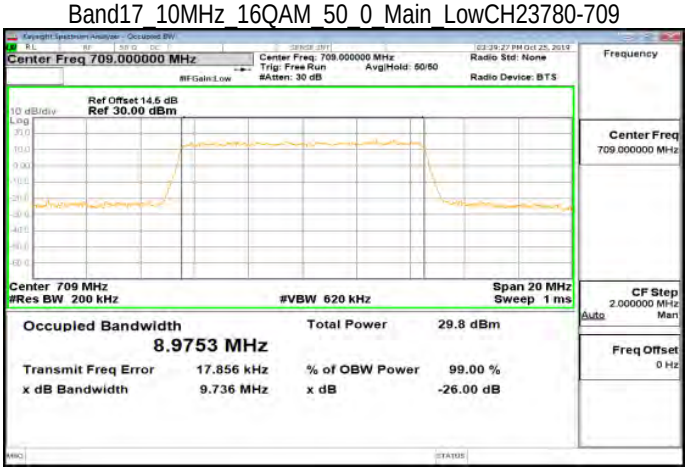
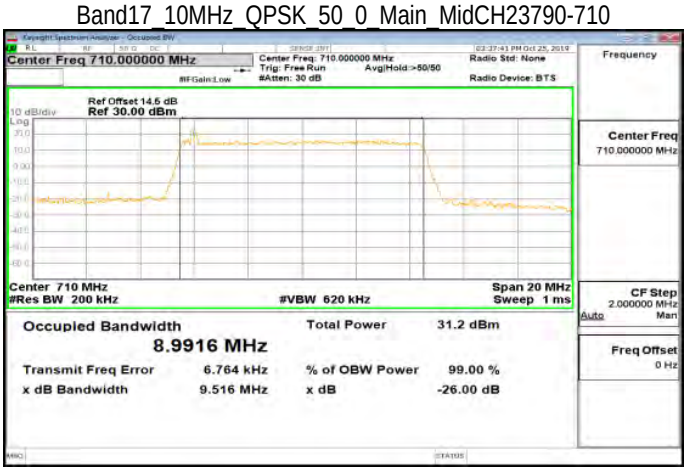
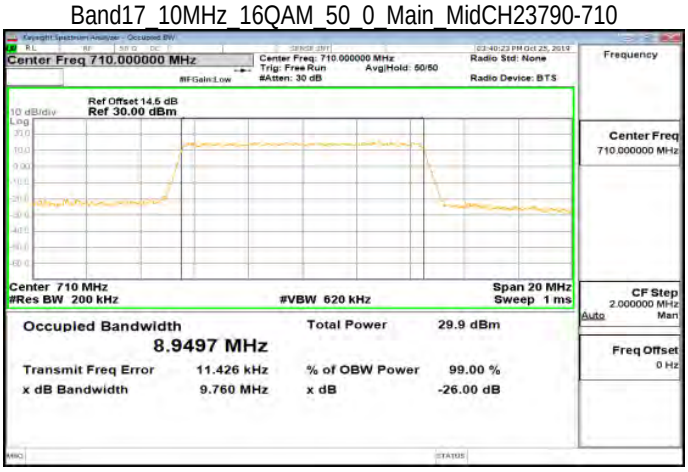


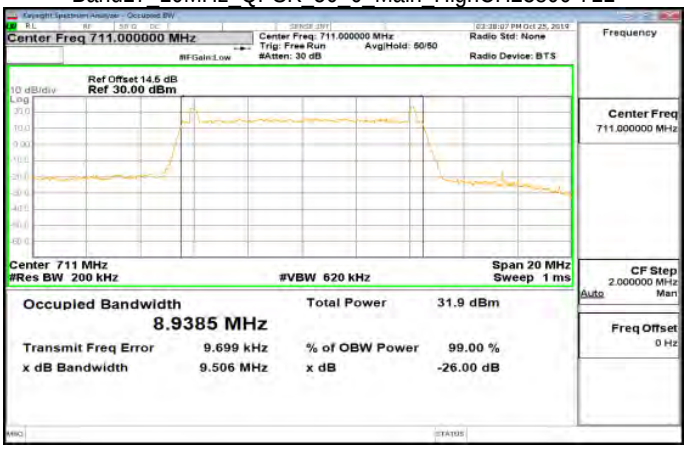
Band17_10MHz_QPSK_50_0_Main_MidCH23790-710



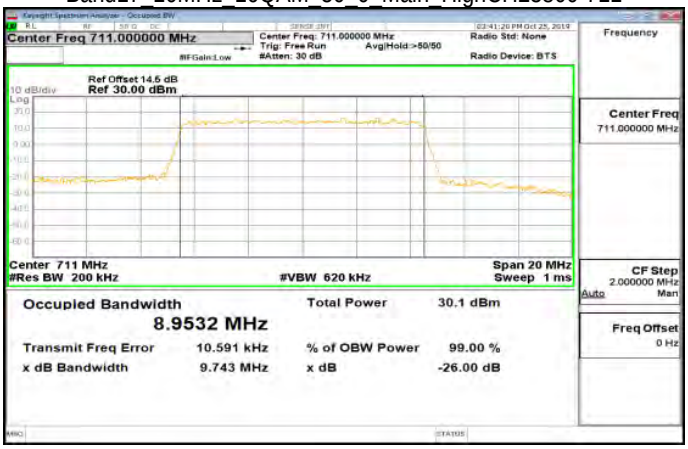
Band17_10MHz_16QAM_50_0_Main_MidCH23790-710



Band17_10MHz_QPSK_50_0_Main_HighCH23800-711



Band17_10MHz_16QAM_50_0_Main_HighCH23800-711



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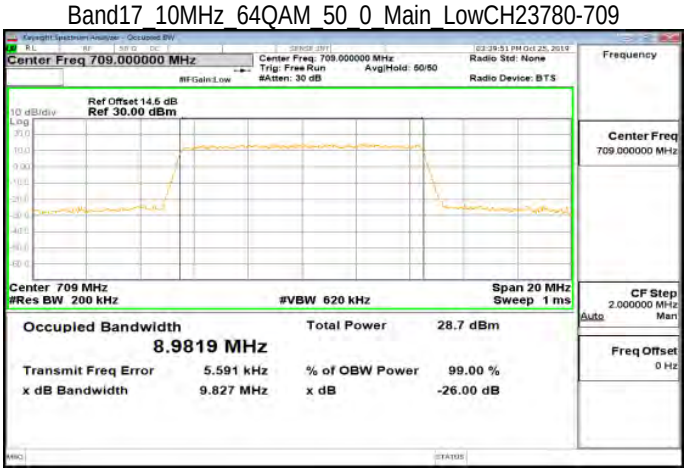
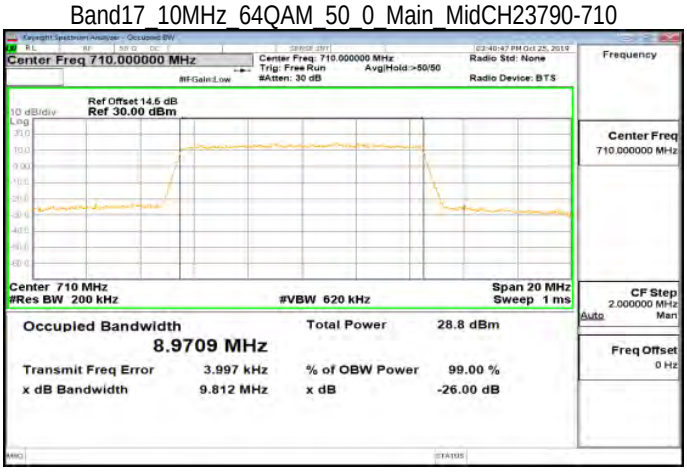
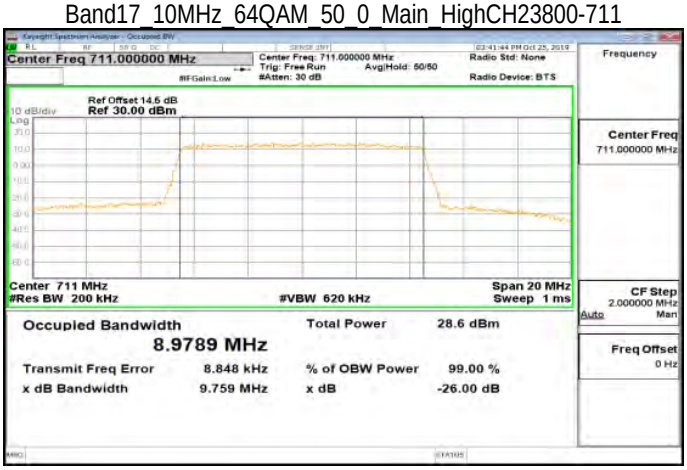
Band17_10MHz_64QAM_50_0_Main_LowCH23780-709



Band17_10MHz_64QAM_50_0_Main_MidCH23790-710



Band17_10MHz_64QAM_50_0_Main_HighCH23800-711



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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) for LTE B13

For operations in the 746–758 MHz band and the 776–788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

(2) On any frequency outside the 776– 788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB (-13dBm)

(4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations;

FCC §27.53 (f) for LTE B13

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) for LTE B12, 13

Compliance for operations in the 600 MHz, 698-746 MHz, 746-758 MHz and the 776-788 MHz band with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

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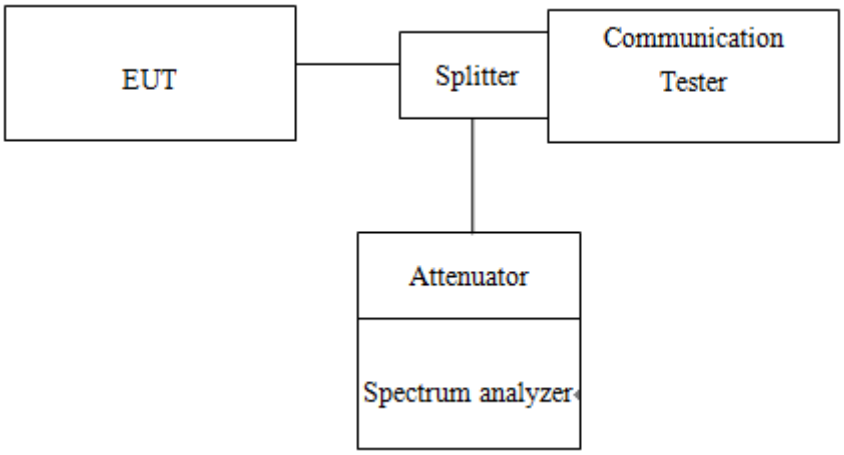
FCC §27.53(h)(3) for LTE B4

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.

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

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	05/02/2019	05/01/2020
Radio Communication Analyzer	Anritsu	MT8815B	6200711454	04/01/2019	03/31/2020
Radio Communication Analyzer	Anritsu	MT8820C	6200995019	04/01/2019	03/31/2020
DC Power Supply	Agilent	E3640A	MY52410006	12/04/2018	12/03/2019
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2019	01/01/2020
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2019	01/01/2020
Splitter	RF-LAMBAD	RFLT2W1G18G	11-JSPF412-018	01/02/2019	01/01/2020

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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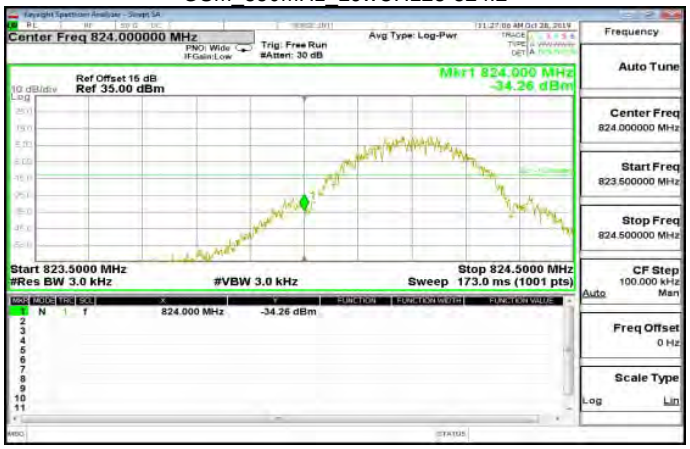
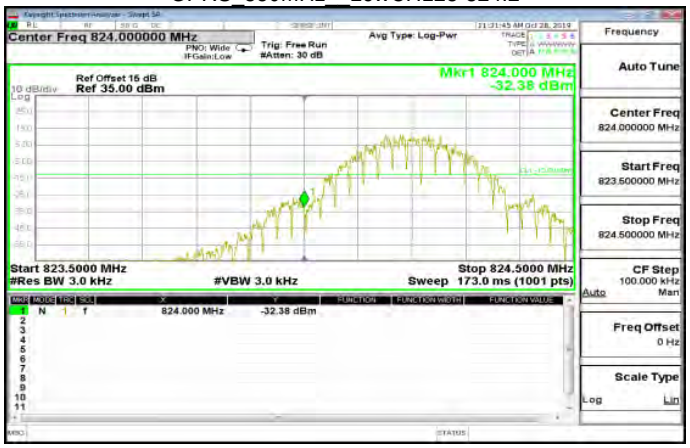
Band Edge

GSM_850MHz_LowCH128-824.2

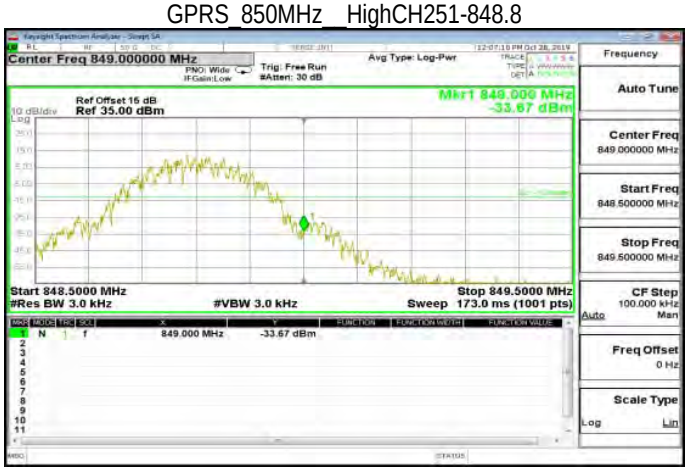


GSM_850MHz_HighCH251-848.8

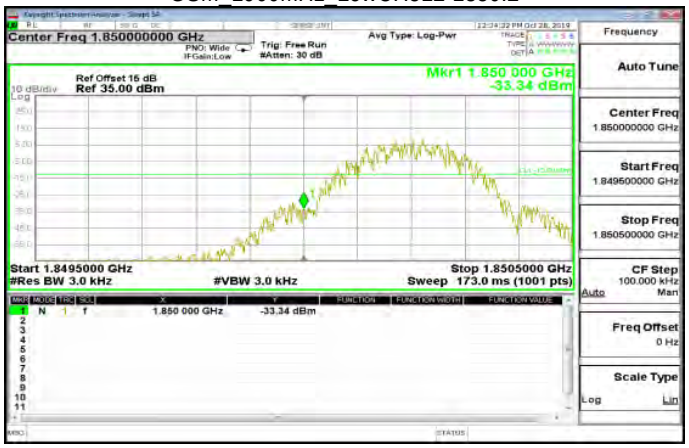
GPRS_850MHz__LowCH128-824.2



GPRS_850MHz__HighCH251-848.8



GSM_1900MHz_LowCH512-1850.2



GSM_1900MHz_HighCH810-1909.8

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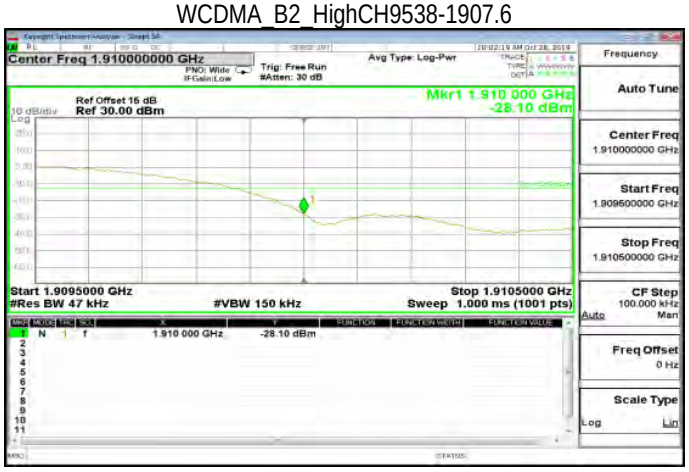
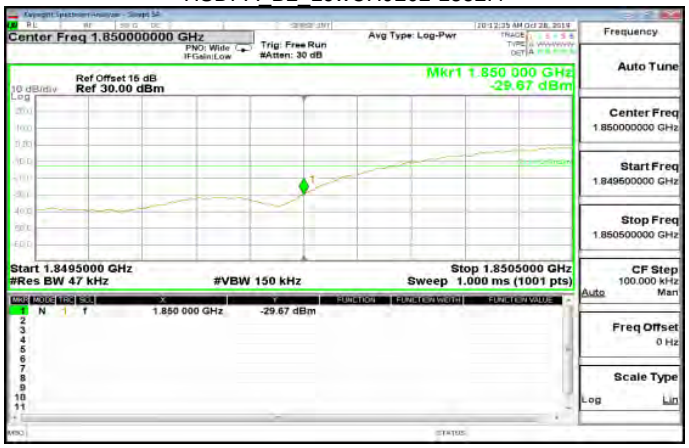
GPRS_1900MHz_LowCH512-1850.2

WCDMA_B2_HighCH9538-1907.6



GPRS_1900MHz_HighCH810-1909.8

HSDPA_B2_LowCH9262-1852.4



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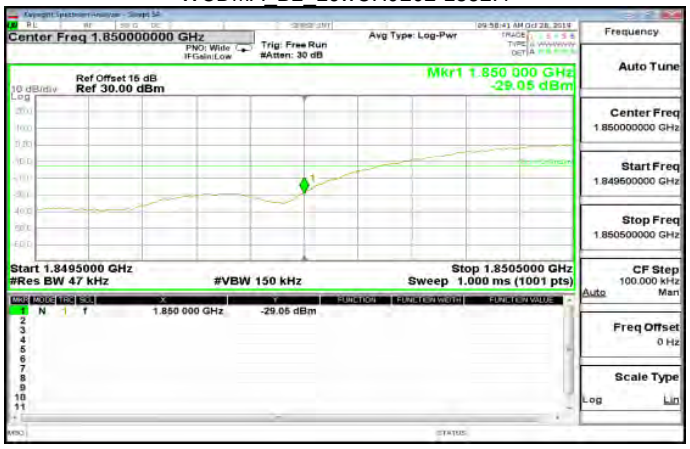

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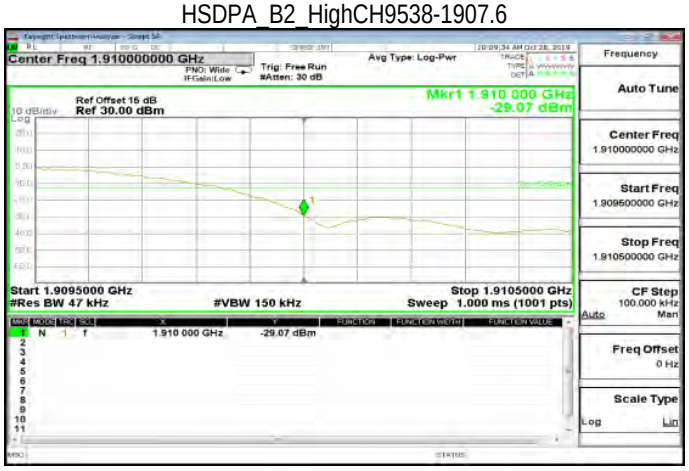

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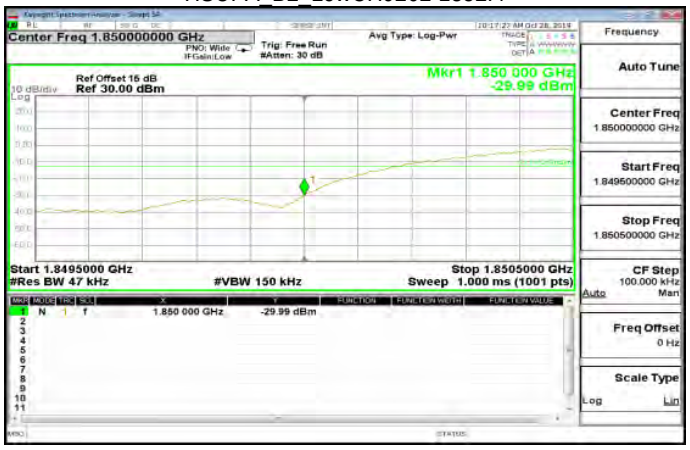
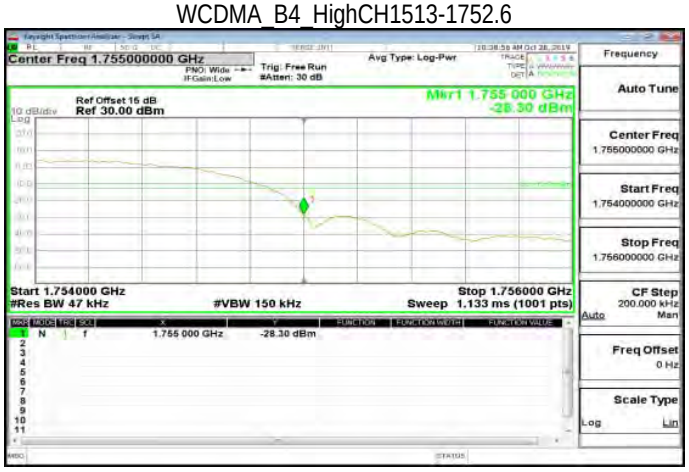
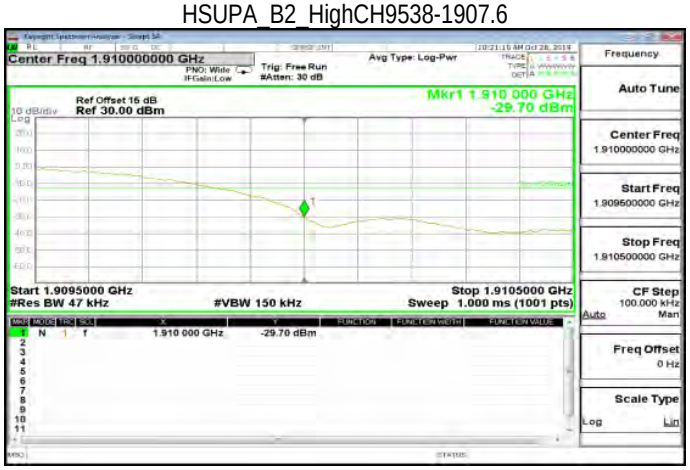
HSUPA_B2_LowCH9262-1852.4



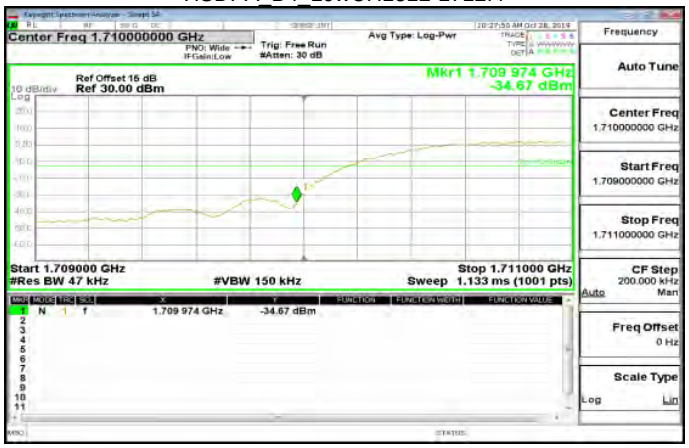
WCDMA_B4_HighCH1513-1752.6



HSUPA_B2_HighCH9538-1907.6



HSDPA_B4_LowCH1312-1712.4



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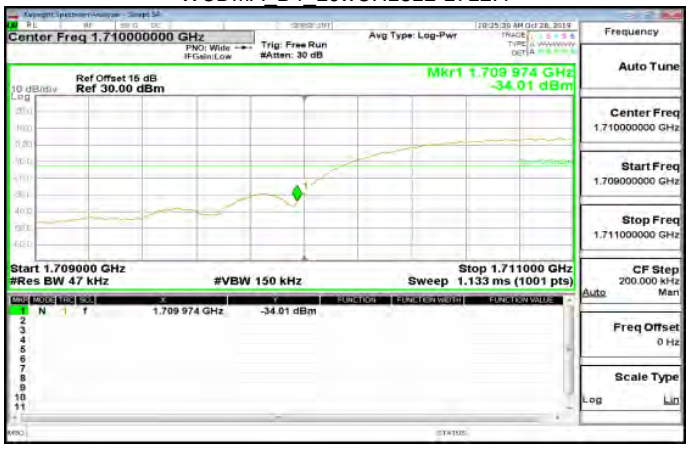

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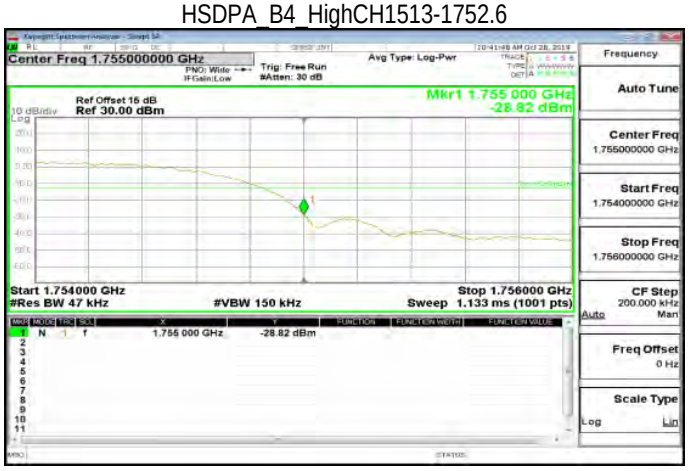

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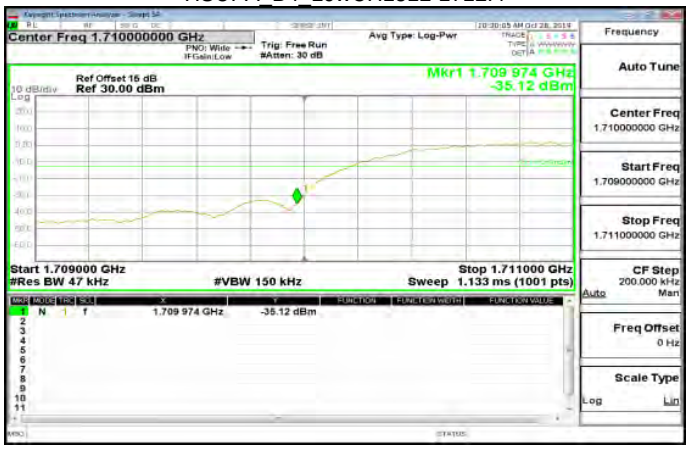
HSUPA_B4_LowCH1312-1712.4



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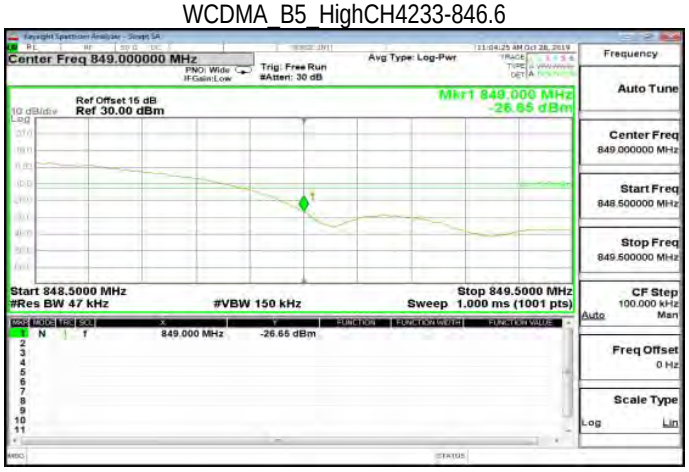

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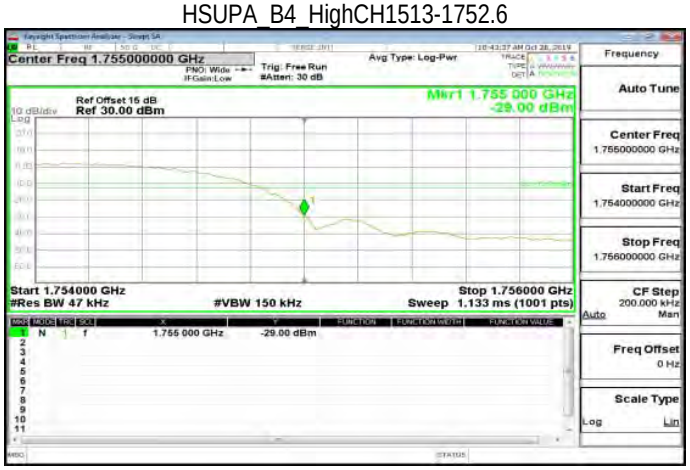

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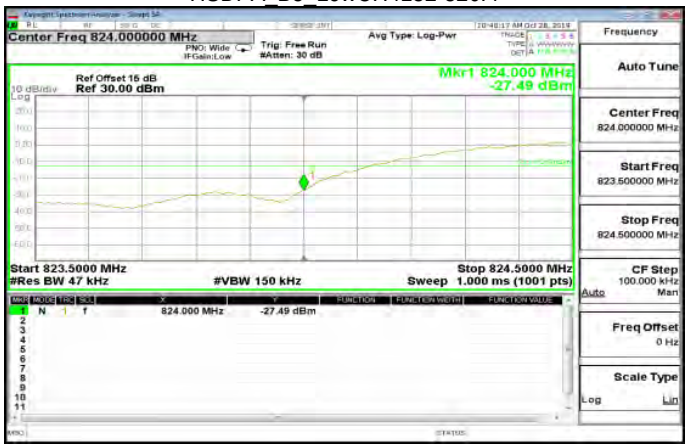

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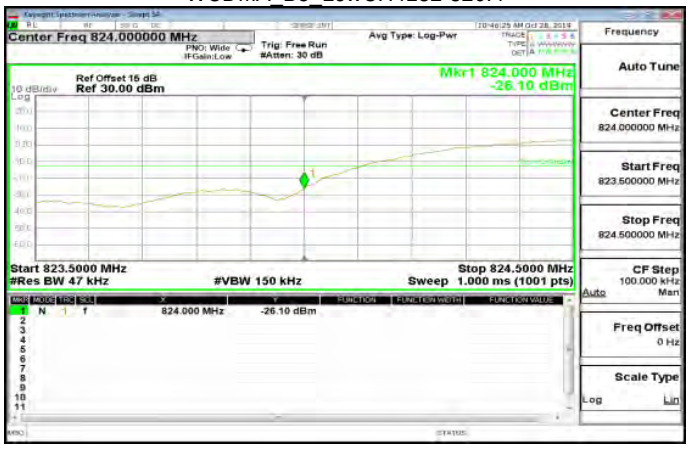

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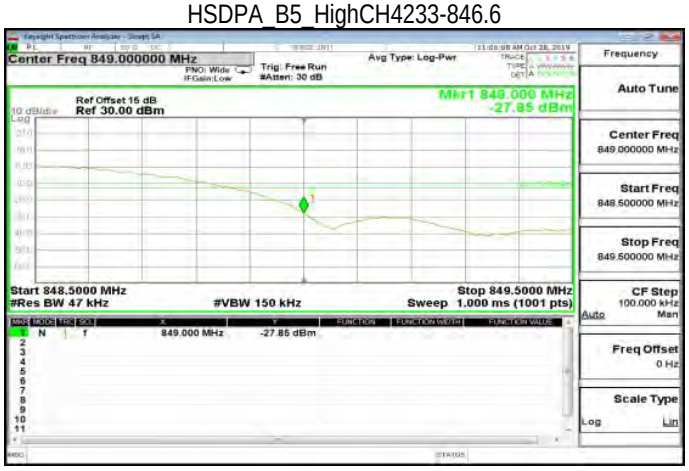

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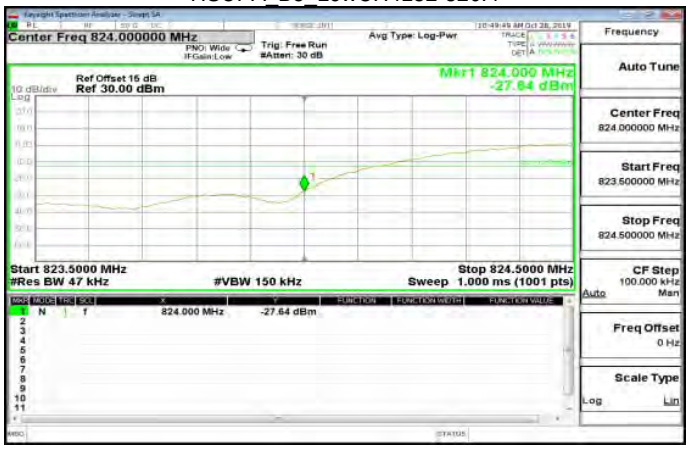
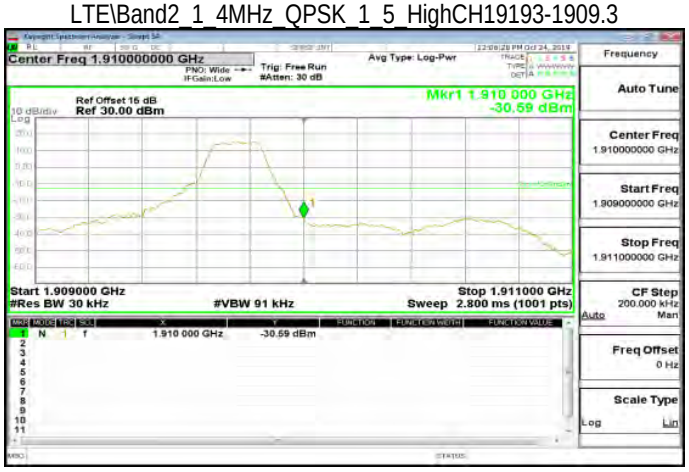
HSUPA_B5_LowCH4132-826.4



LTE\Band2_1_4MHz_QPSK_1_5_HighCH19193-1909.3



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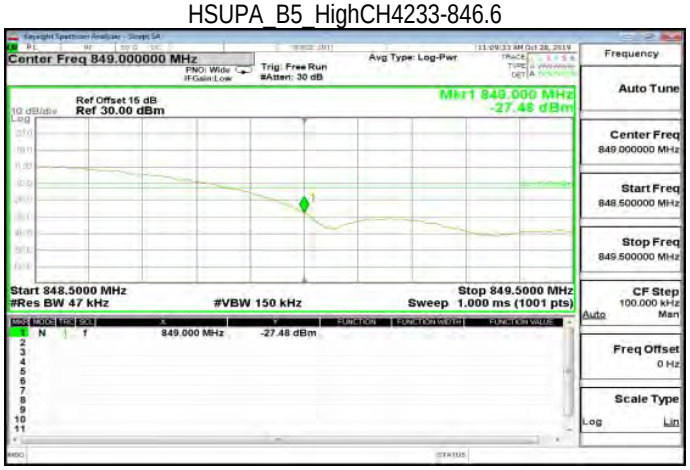
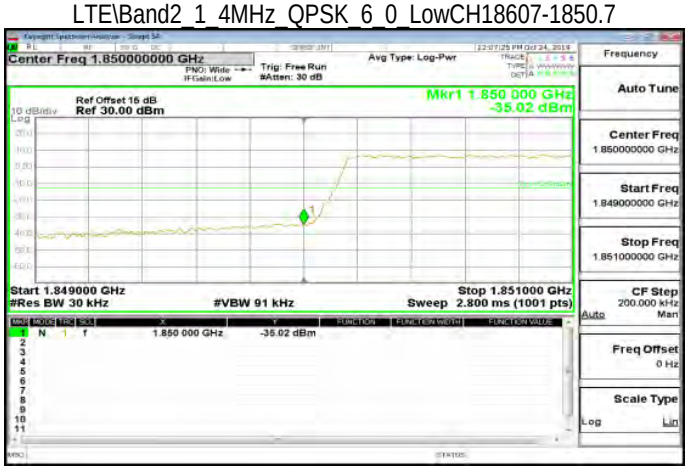
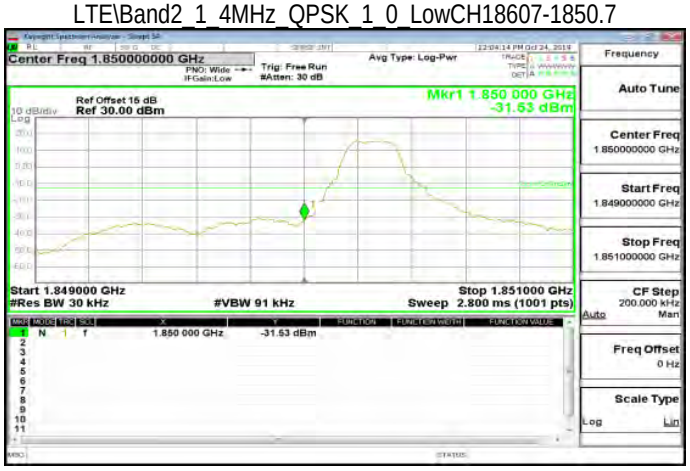


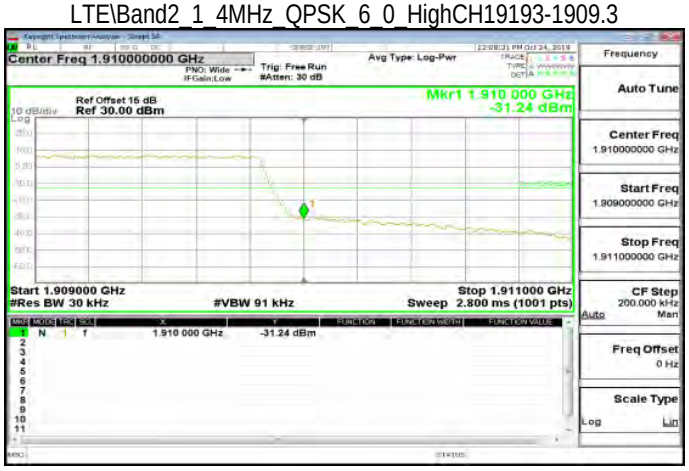
LTE\Band2_1_4MHz_QPSK_6_0_LowCH18607-1850.7



LTE\Band2_1_4MHz_QPSK_1_0_LowCH18607-1850.7



LTE\Band2_1_4MHz_QPSK_6_0_HighCH19193-1909.3



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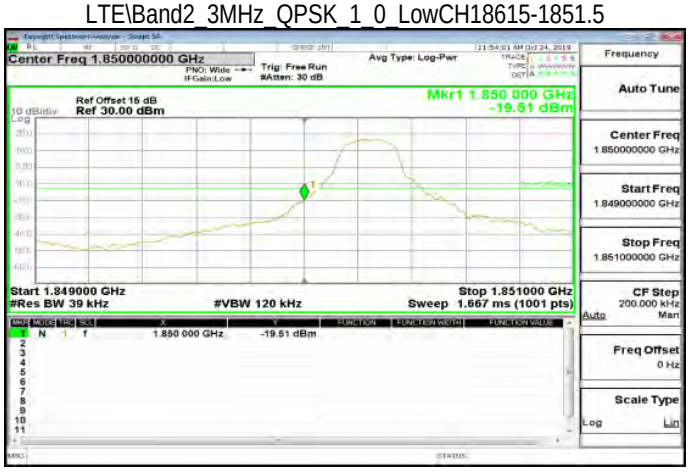
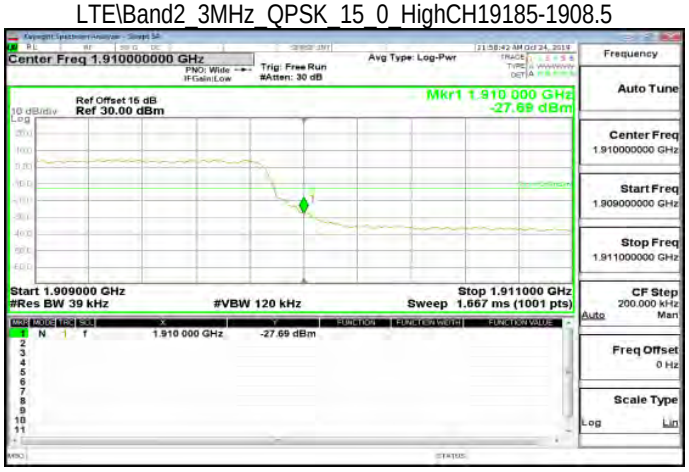
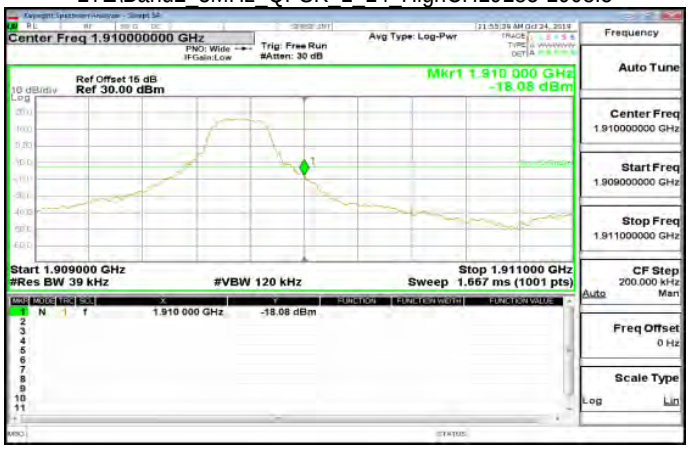
LTE\Band2_3MHz_QPSK_1_0_LowCH18615-1851.5



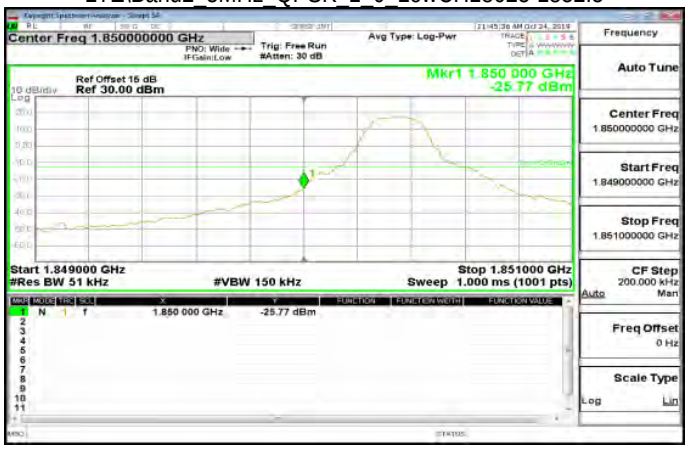
LTE\Band2_3MHz_QPSK_15_0_HighCH19185-1908.5



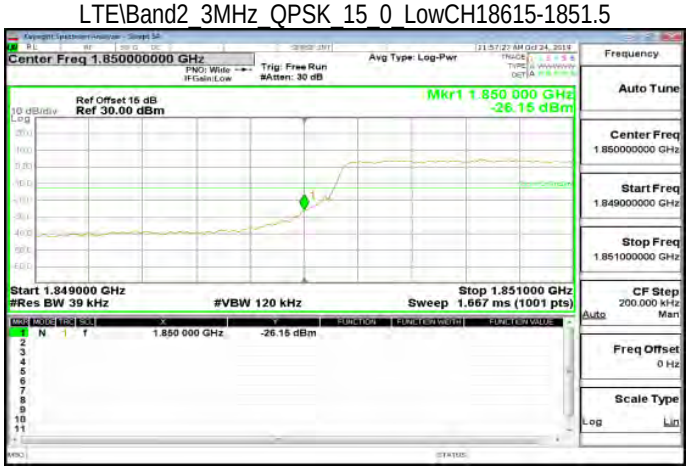
LTE\Band2_3MHz_QPSK_1_14_HighCH19185-1908.5



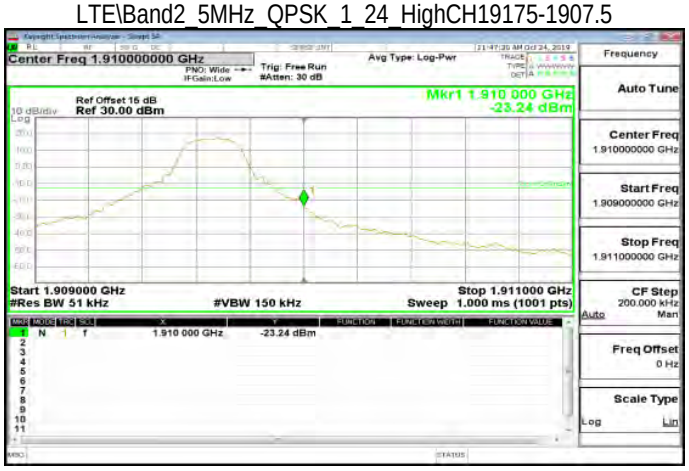
LTE\Band2_5MHz_QPSK_1_0_LowCH18625-1852.5



LTE\Band2_3MHz_QPSK_15_0_LowCH18615-1851.5



LTE\Band2_5MHz_QPSK_1_24_HighCH19175-1907.5



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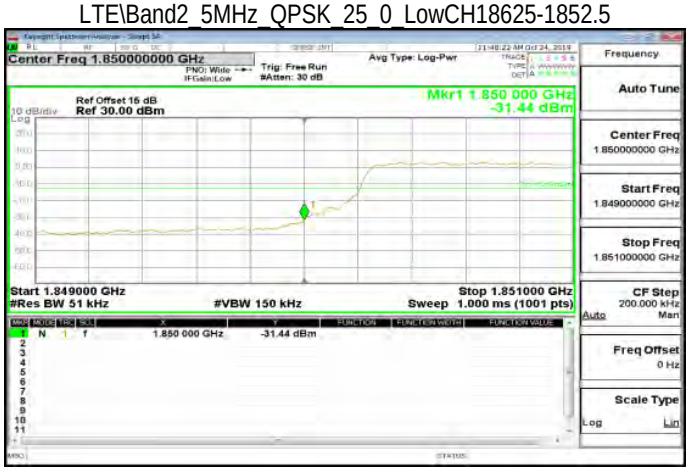
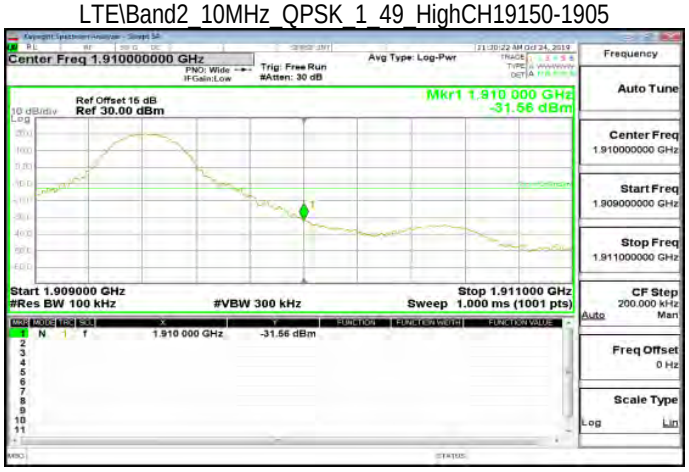
LTE\Band2_5MHz_QPSK_25_0_LowCH18625-1852.5

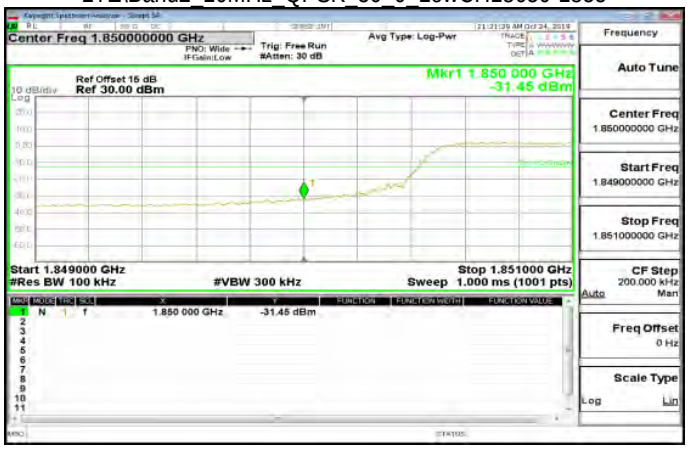


LTE\Band2_10MHz_QPSK_1_49_HighCH19150-1905

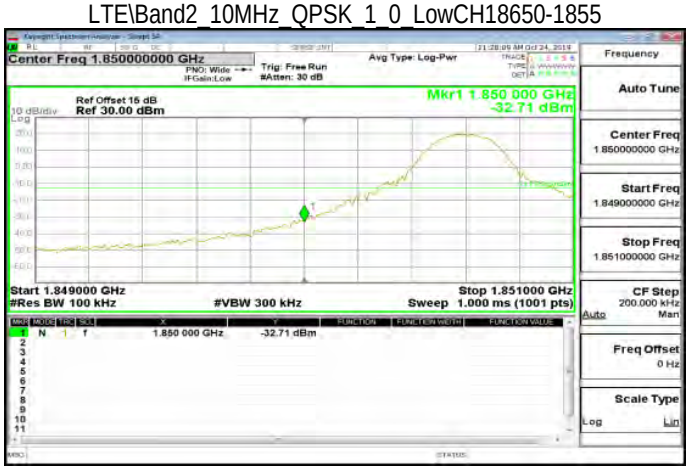


LTE\Band2_5MHz_QPSK_25_0_HighCH19175-1907.5

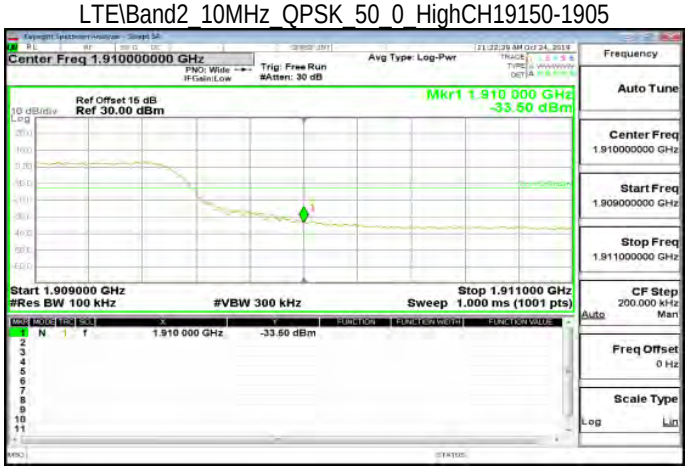
LTE\Band2_10MHz_QPSK_50_0_LowCH18650-1855



LTE\Band2_10MHz_QPSK_1_0_LowCH18650-1855



LTE\Band2_10MHz_QPSK_50_0_HighCH19150-1905



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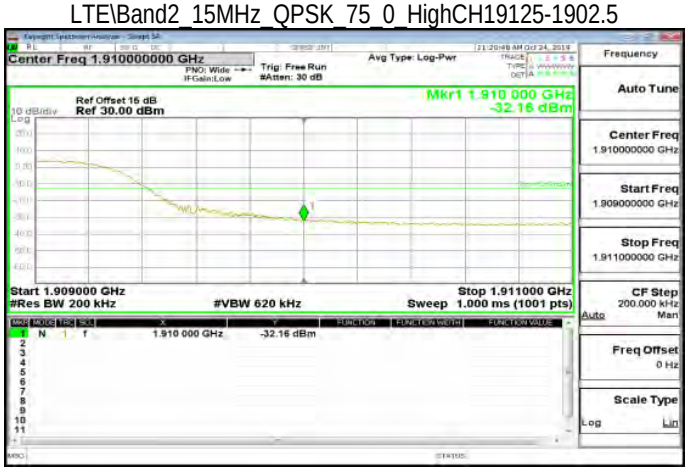
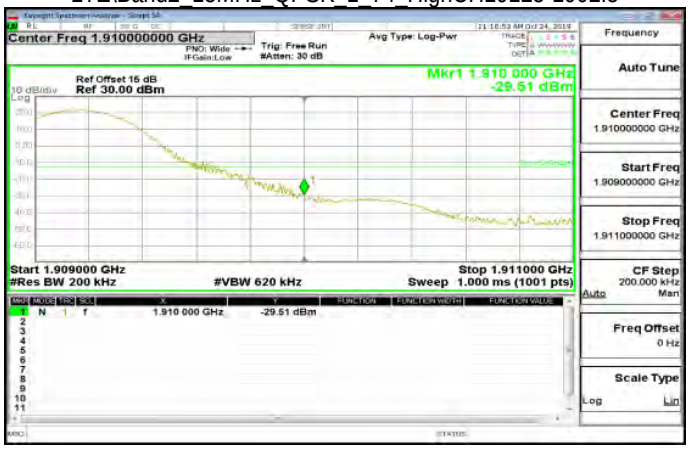
LTE\Band2_15MHz_QPSK_1_0_LowCH18675-1857.5

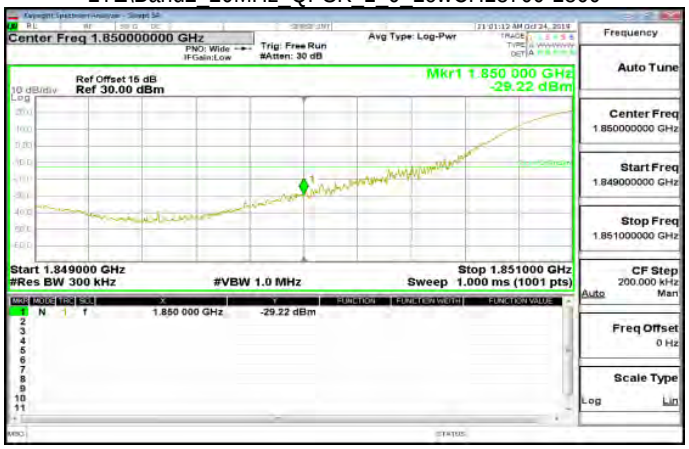
LTE\Band2_15MHz_QPSK_75_0_HighCH19125-1902.5



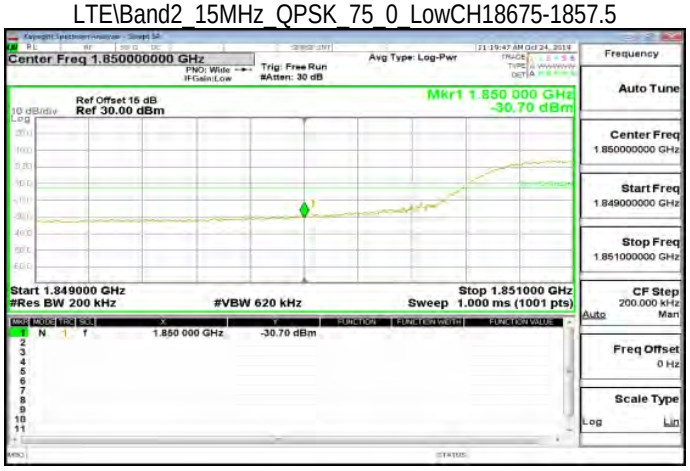
LTE\Band2_15MHz_QPSK_1_74_HighCH19125-1902.5



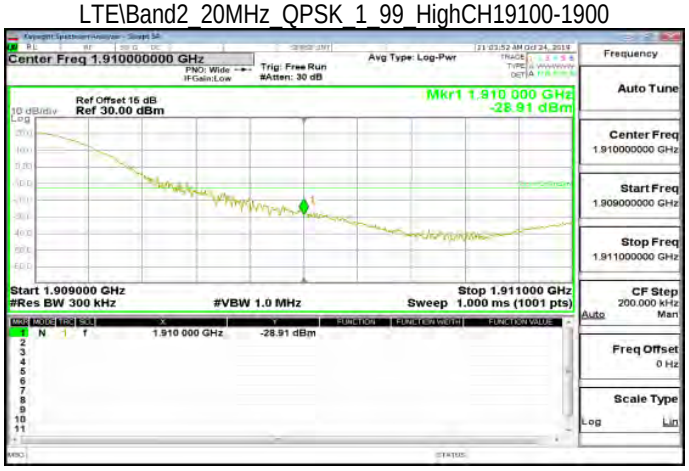
LTE\Band2_20MHz_QPSK_1_0_LowCH18700-1860



LTE\Band2_15MHz_QPSK_75_0_LowCH18675-1857.5



LTE\Band2_20MHz_QPSK_1_99_HighCH19100-1900



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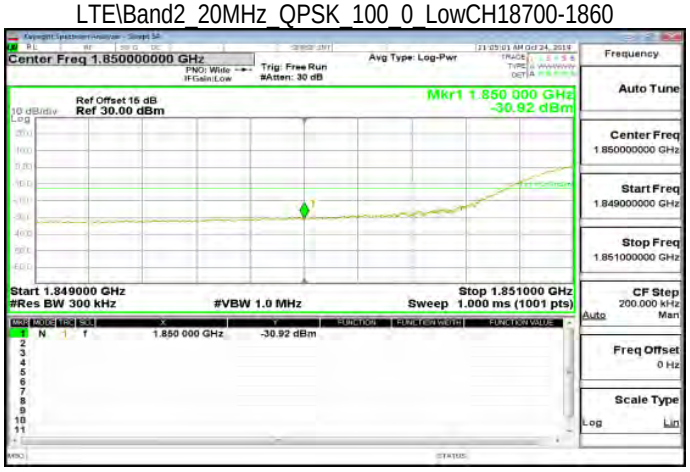
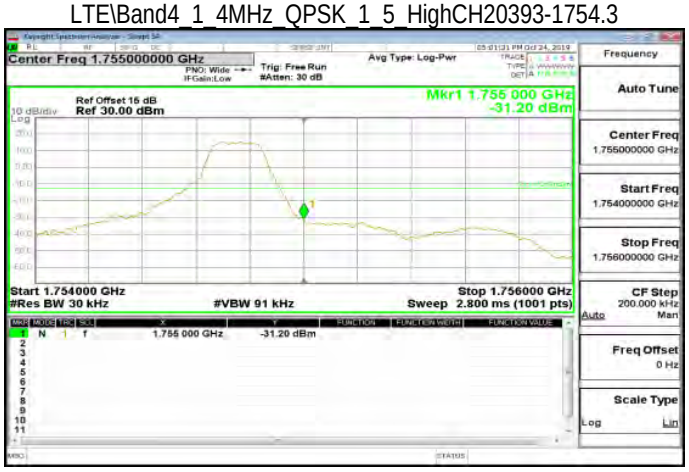
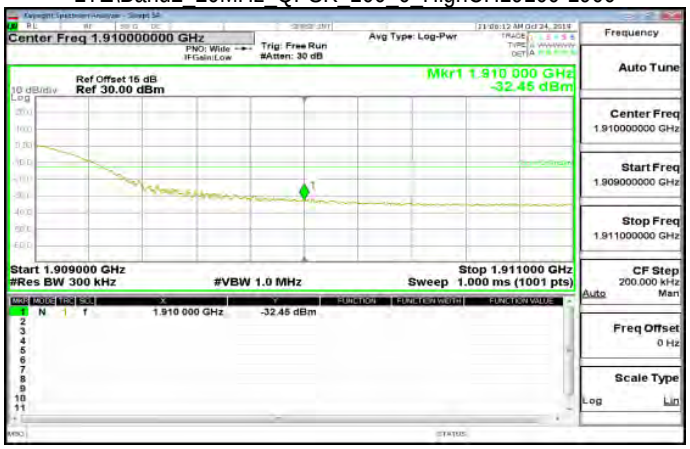
LTE\Band2_20MHz_QPSK_100_0_LowCH18700-1860



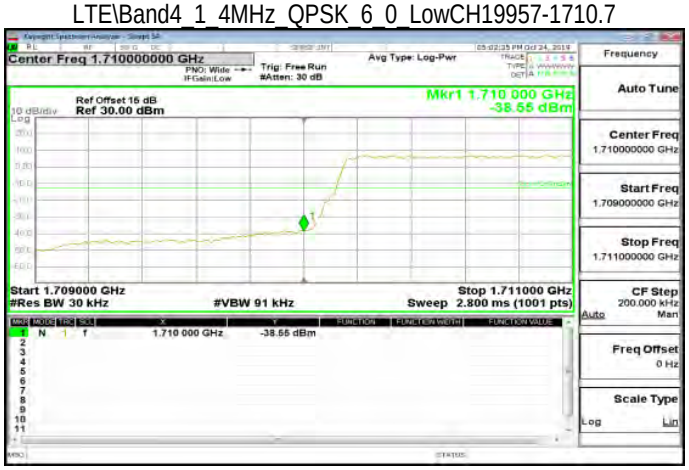
LTE\Band4_1_4MHz_QPSK_1_5_HighCH20393-1754.3



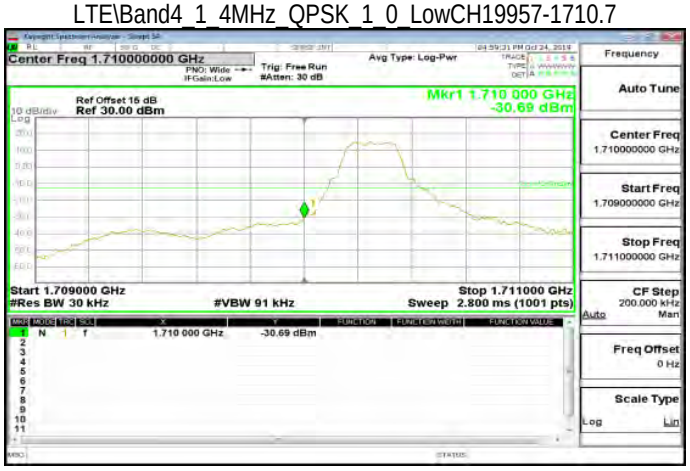
LTE\Band2_20MHz_QPSK_100_0_HighCH19100-1900



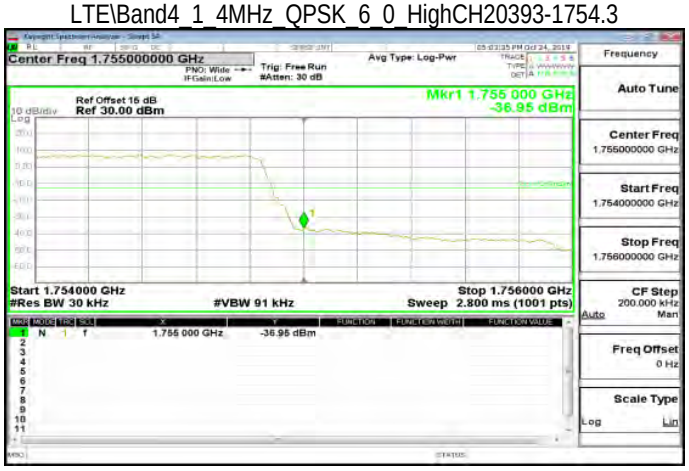
LTE\Band4_1_4MHz_QPSK_6_0_LowCH19957-1710.7



LTE\Band4_1_4MHz_QPSK_1_0_LowCH19957-1710.7



LTE\Band4_1_4MHz_QPSK_6_0_HighCH20393-1754.3



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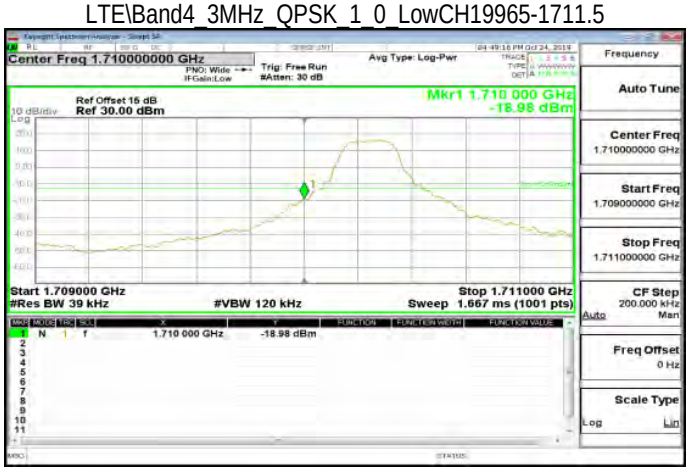
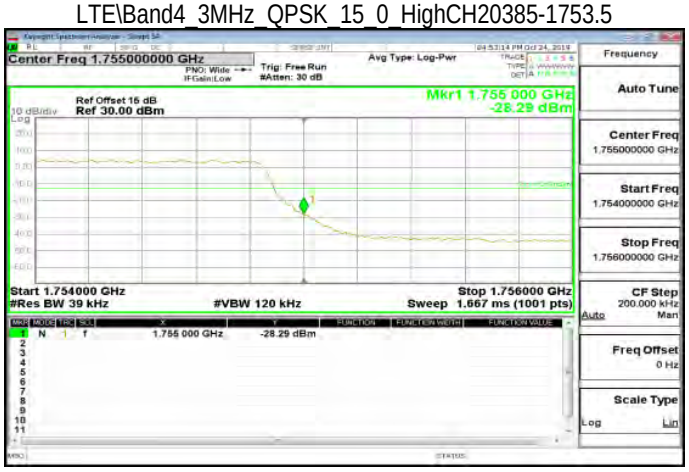
LTE\Band4_3MHz_QPSK_1_0_LowCH19965-1711.5



LTE\Band4_3MHz_QPSK_15_0_HighCH20385-1753.5



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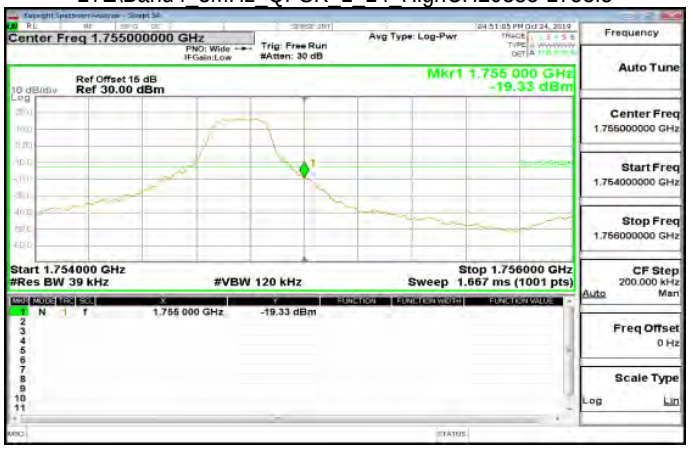
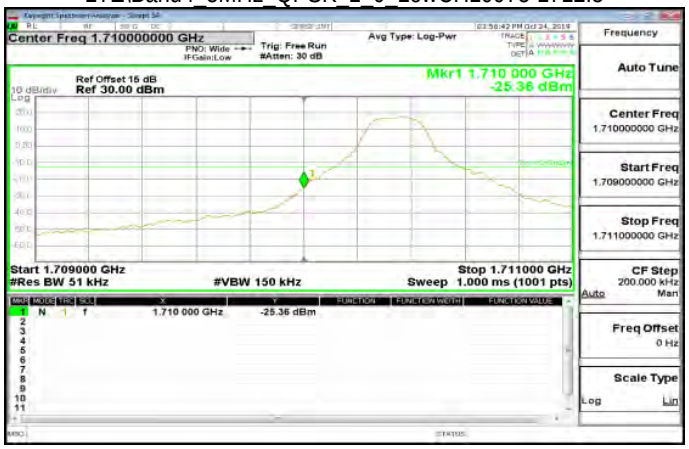
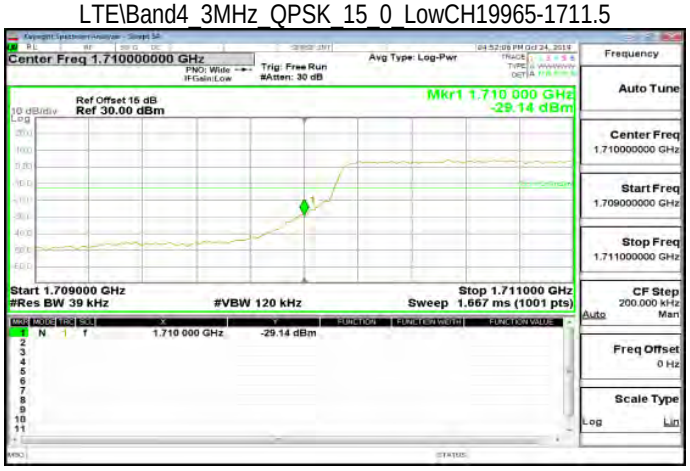


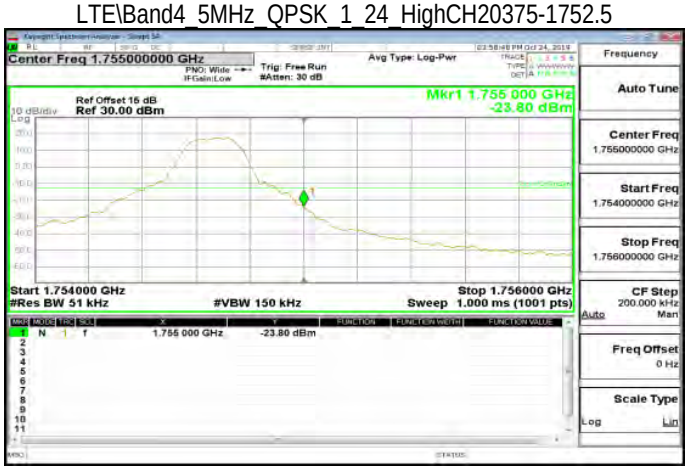
LTE\Band4_5MHz_QPSK_1_0_LowCH19975-1712.5



LTE\Band4_3MHz_QPSK_15_0_LowCH19965-1711.5



LTE\Band4_5MHz_QPSK_1_24_HighCH20375-1752.5



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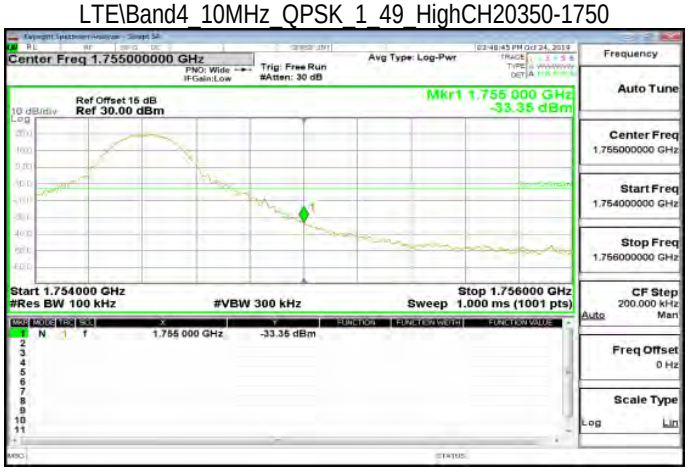
LTE\Band4_5MHz_QPSK_25_0_LowCH19975-1712.5

LTE\Band4_10MHz_QPSK_1_49_HighCH20350-1750



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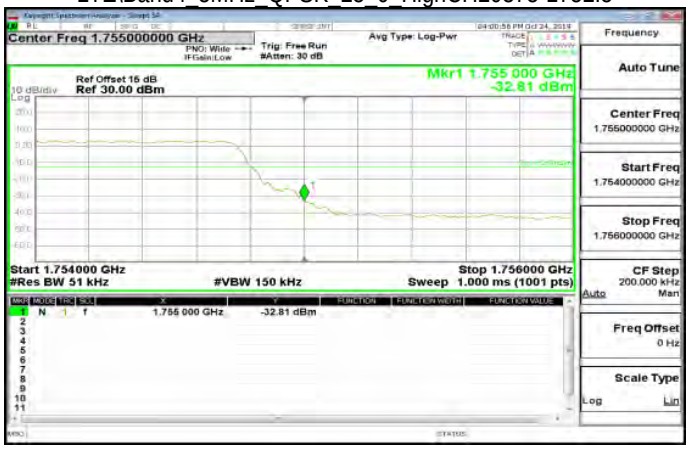
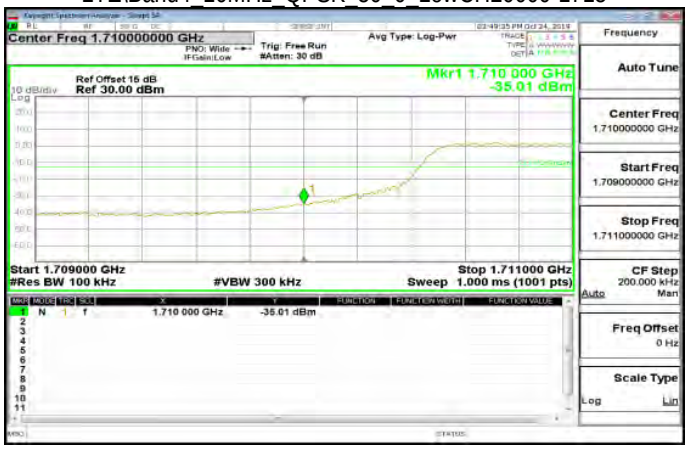
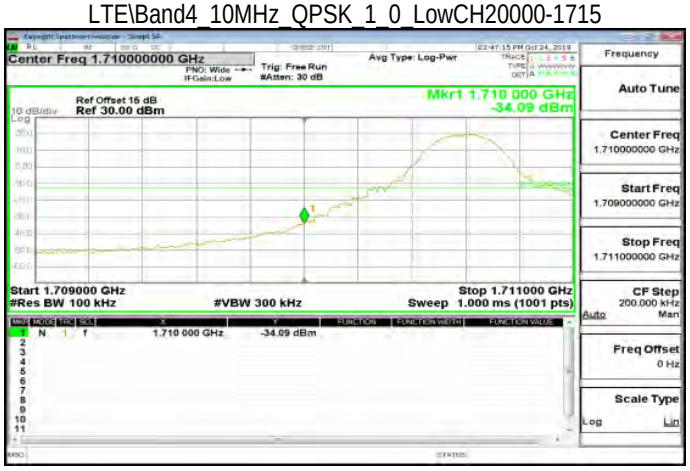


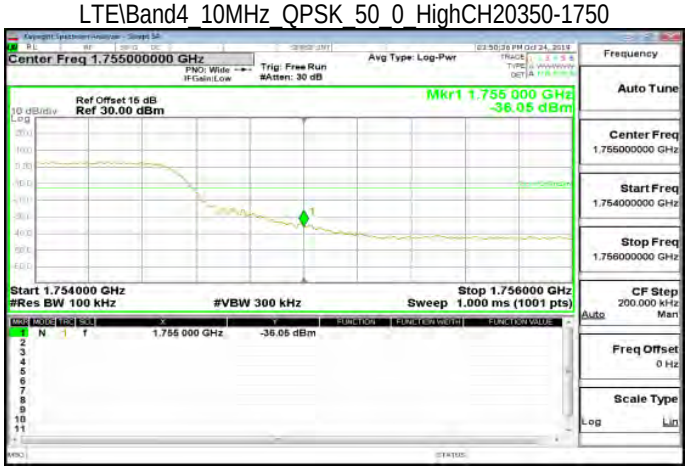
LTE\Band4_10MHz_QPSK_50_0_LowCH20000-1715



LTE\Band4_10MHz_QPSK_1_0_LowCH20000-1715



LTE\Band4_10MHz_QPSK_50_0_HighCH20350-1750



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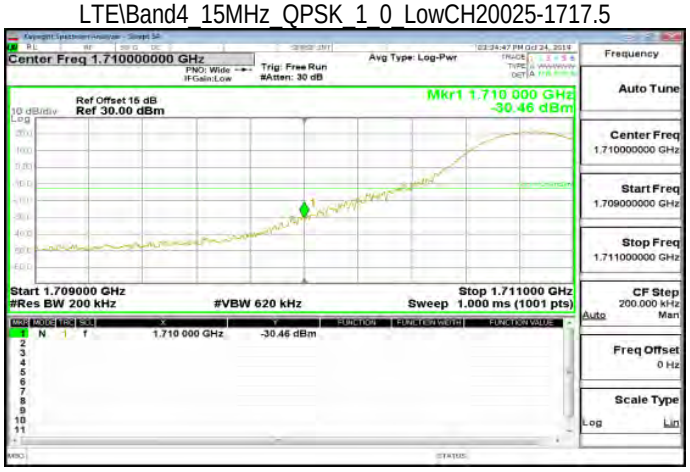
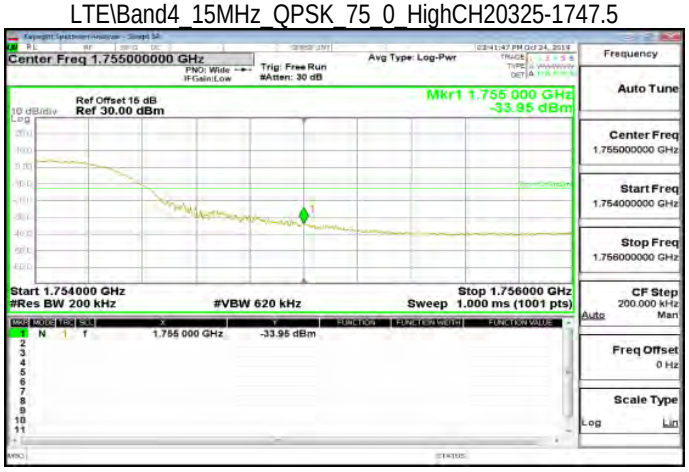
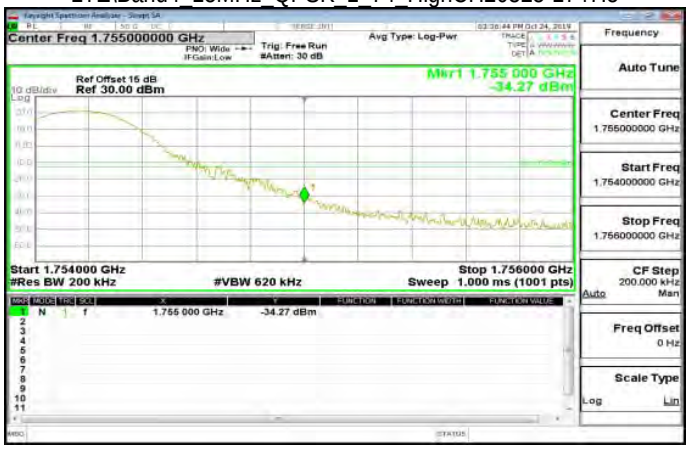
LTE\Band4_15MHz_QPSK_1_0_LowCH20025-1717.5



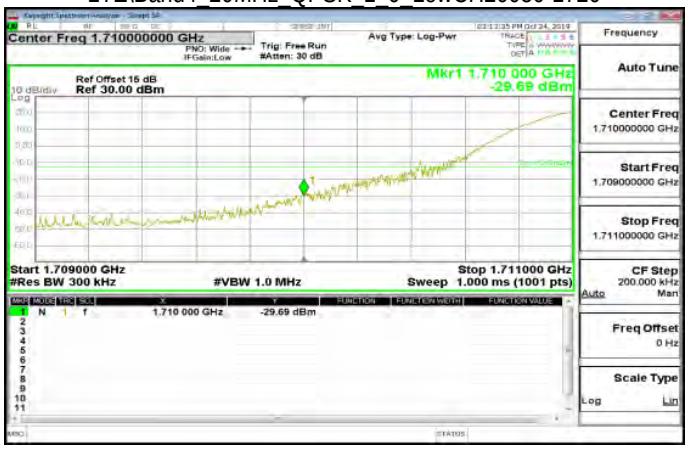
LTE\Band4_15MHz_QPSK_75_0_HighCH20325-1747.5



LTE\Band4_15MHz_QPSK_1_74_HighCH20325-1747.5

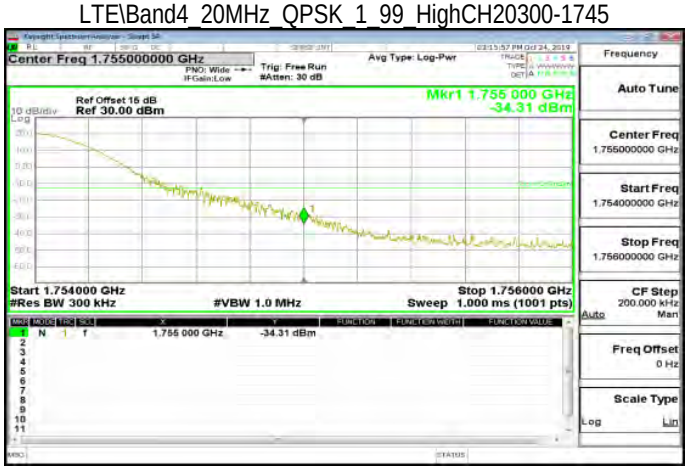


LTE\Band4_20MHz_QPSK_1_0_LowCH20050-1720



LTE\Band4_15MHz_QPSK_75_0_LowCH20025-1717.5

LTE\Band4_20MHz_QPSK_1_99_HighCH20300-1745



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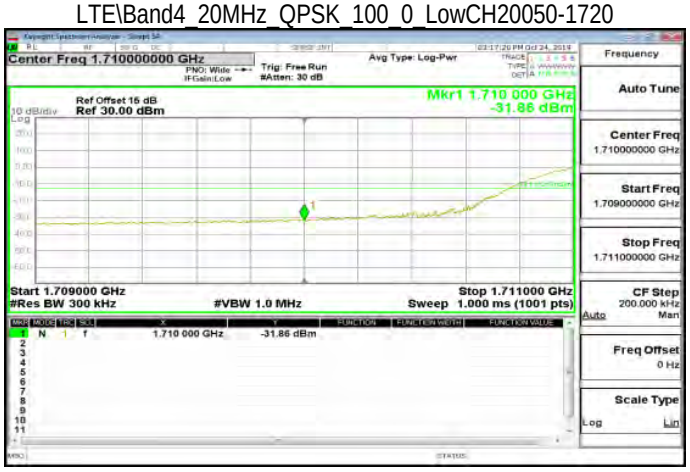
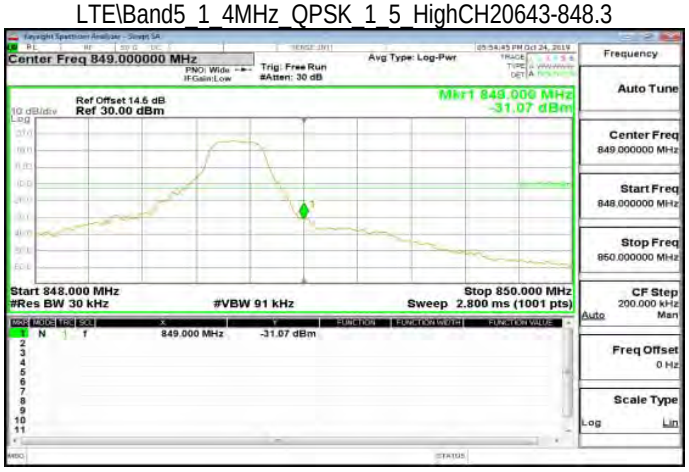
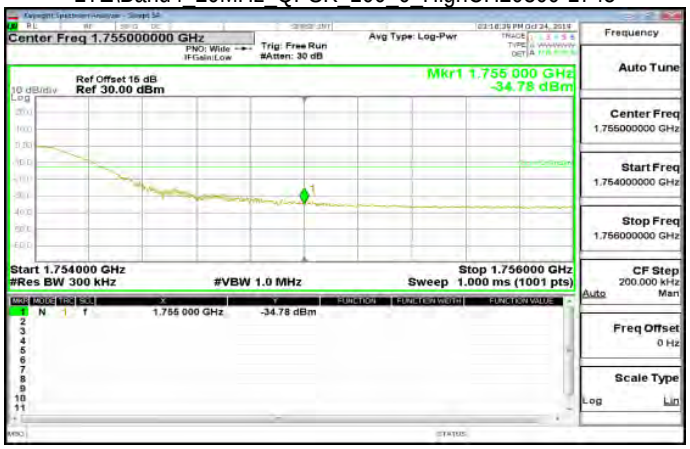
LTE\Band4_20MHz_QPSK_100_0_LowCH20050-1720



LTE\Band5_1_4MHz_QPSK_1_5_HighCH20643-848.3

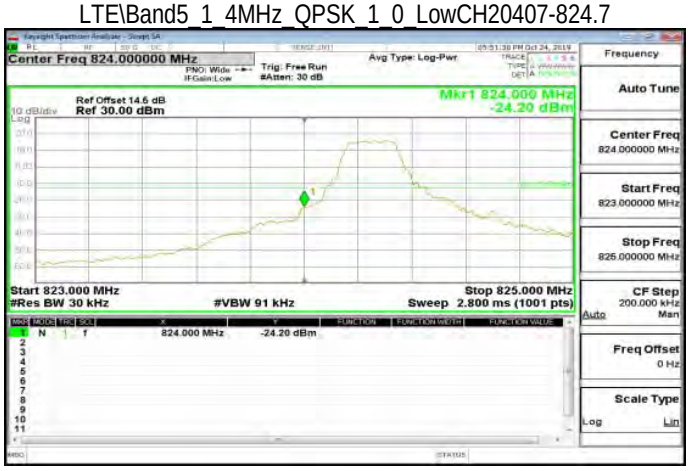


LTE\Band4_20MHz_QPSK_100_0_HighCH20300-1745

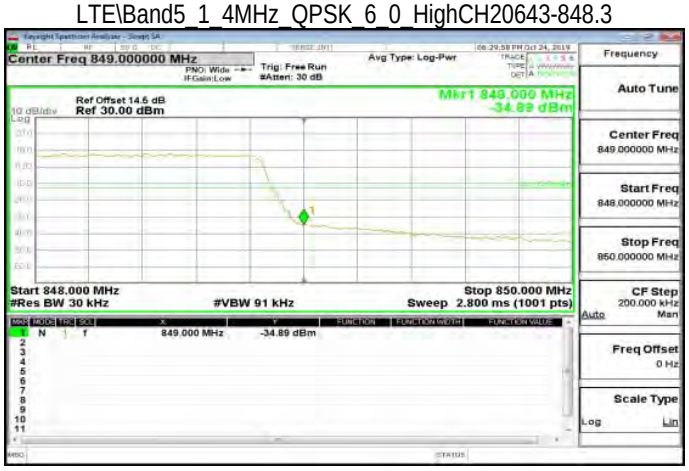


LTE\Band5_1_4MHz_QPSK_6_0_LowCH20407-824.7

LTE\Band5_1_4MHz_QPSK_1_0_LowCH20407-824.7



LTE\Band5_1_4MHz_QPSK_6_0_HighCH20643-848.3



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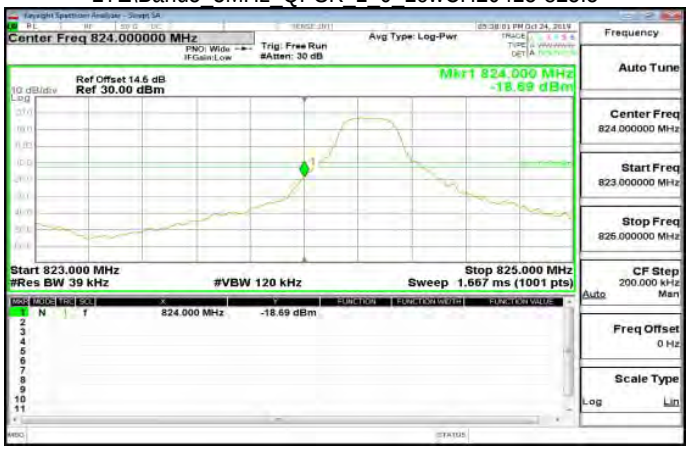
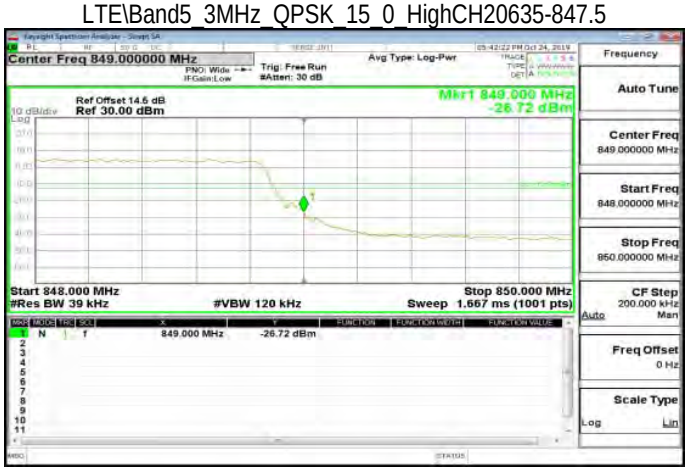
LTE\Band5_3MHz_QPSK_1_0_LowCH20415-825.5



LTE\Band5_3MHz_QPSK_15_0_HighCH20635-847.5



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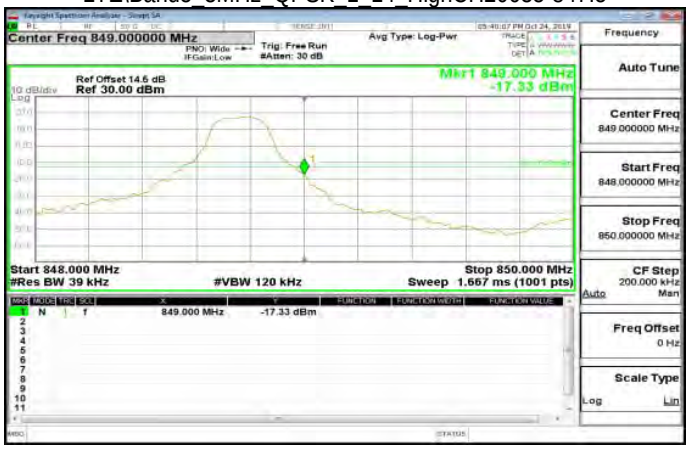
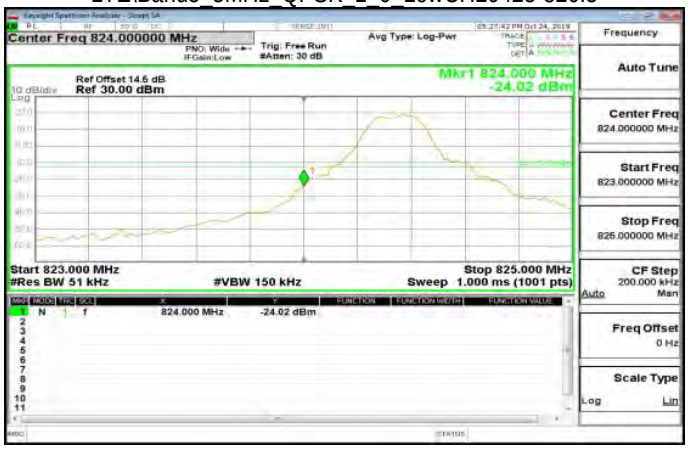
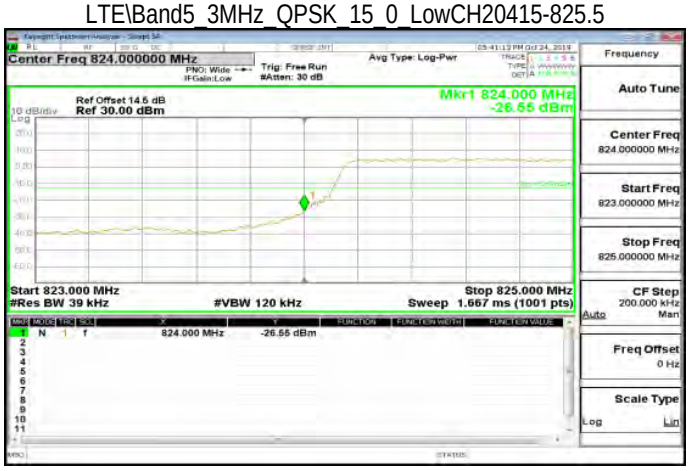


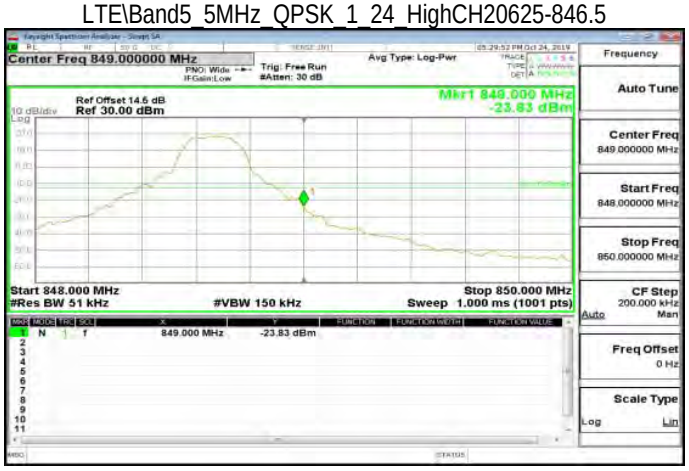
LTE\Band5_5MHz_QPSK_1_0_LowCH20425-826.5



LTE\Band5_3MHz_QPSK_15_0_LowCH20415-825.5



LTE\Band5_5MHz_QPSK_1_24_HighCH20625-846.5



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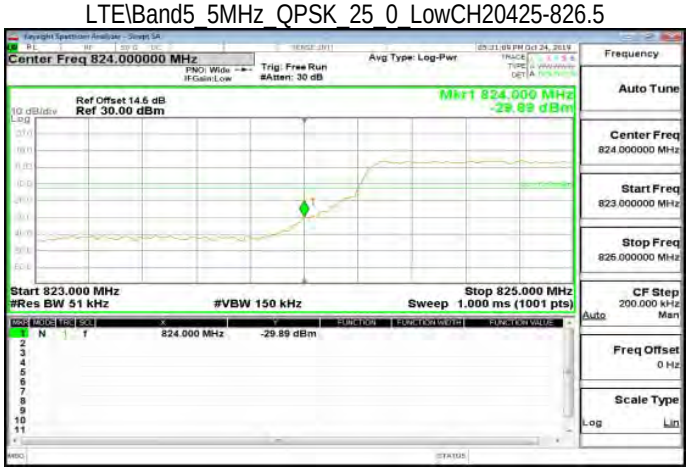
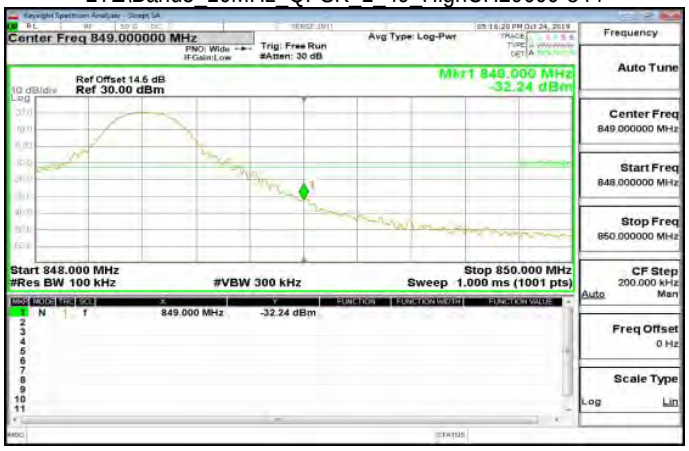
LTE\Band5_5MHz_QPSK_25_0_LowCH20425-826.5

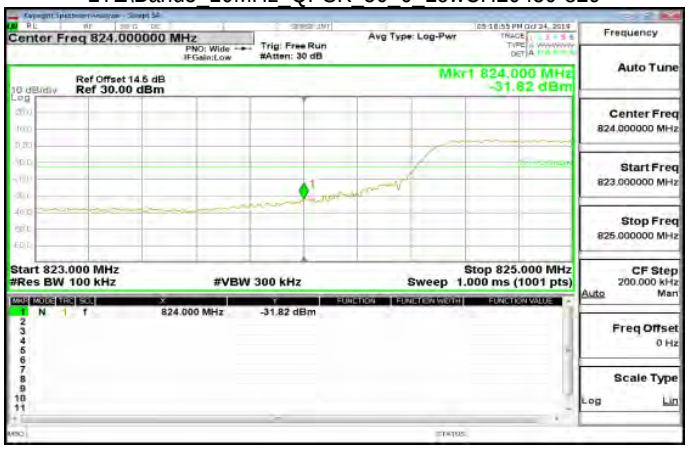


LTE\Band5_10MHz_QPSK_1_49_HighCH20600-844

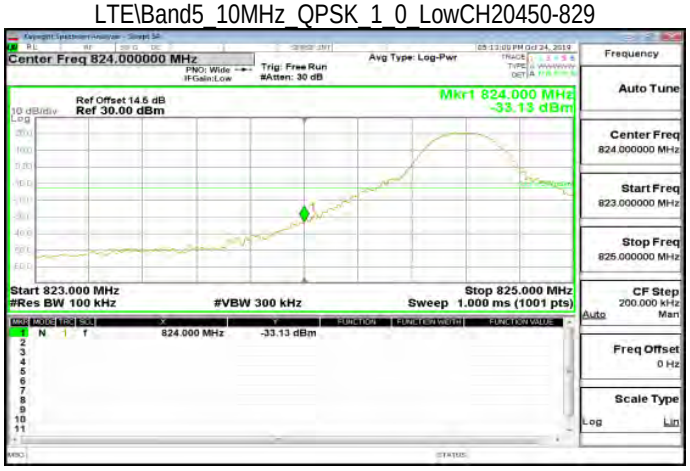


LTE\Band5_5MHz_QPSK_25_0_HighCH20625-846.5

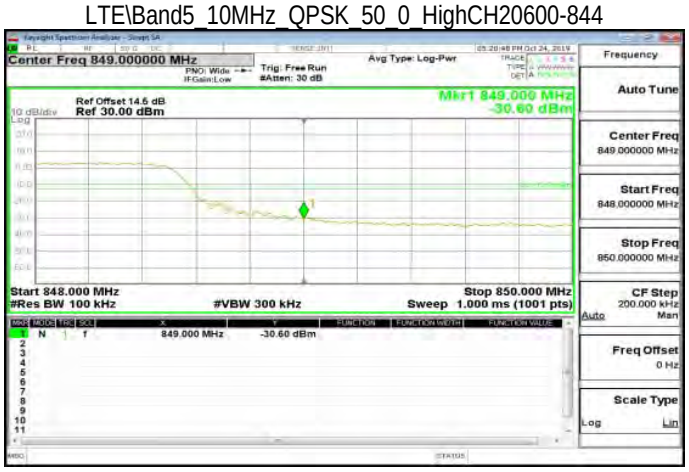
LTE\Band5_10MHz_QPSK_50_0_LowCH20450-829



LTE\Band5_10MHz_QPSK_1_0_LowCH20450-829



LTE\Band5_10MHz_QPSK_50_0_HighCH20600-844



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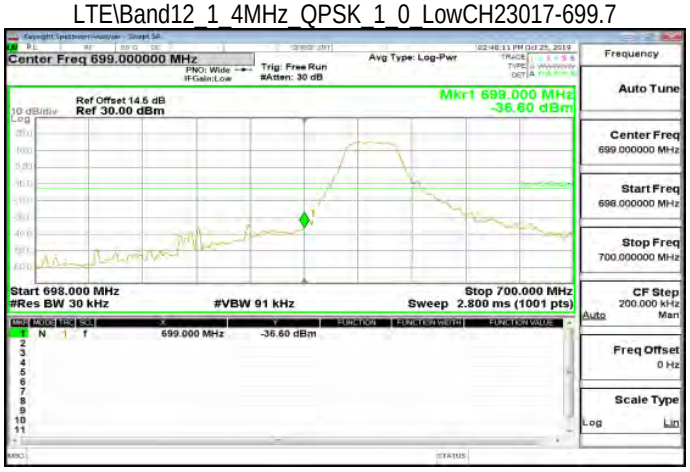
LTE\Band12_1_4MHz_QPSK_1_0_LowCH23017-699.7



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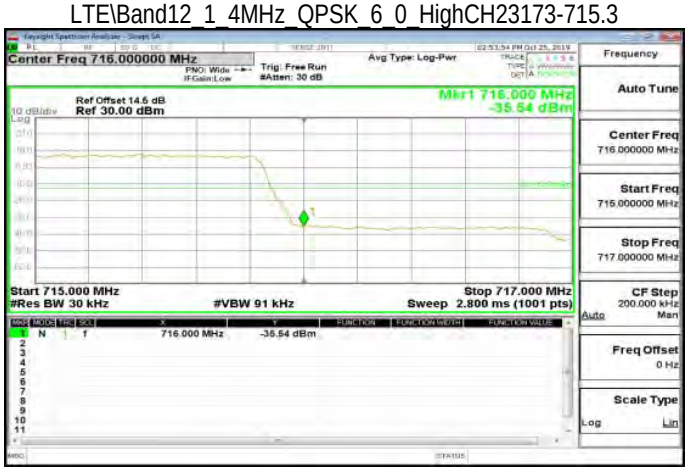
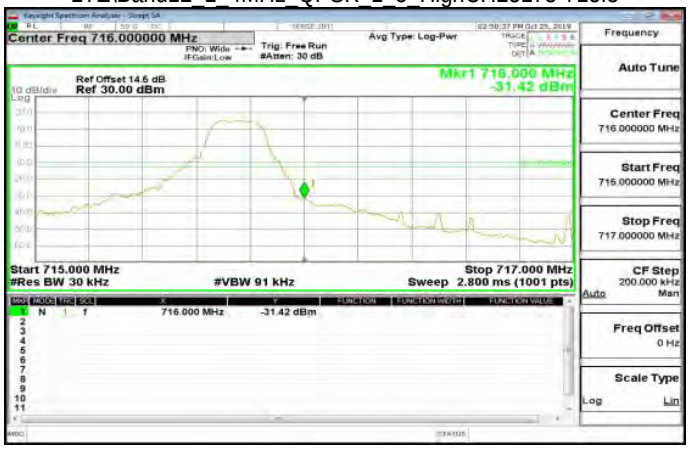
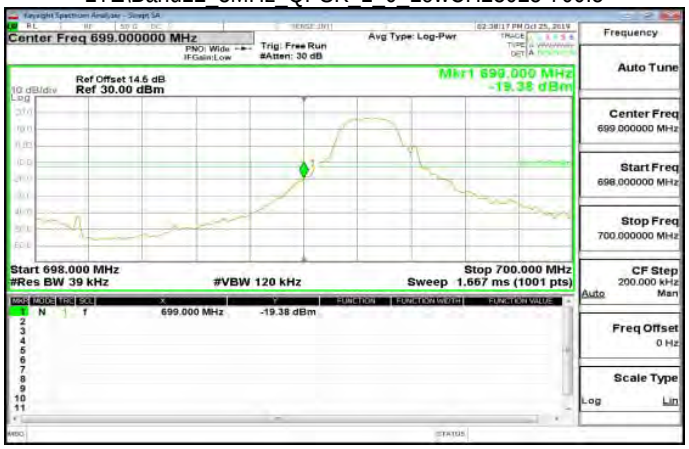


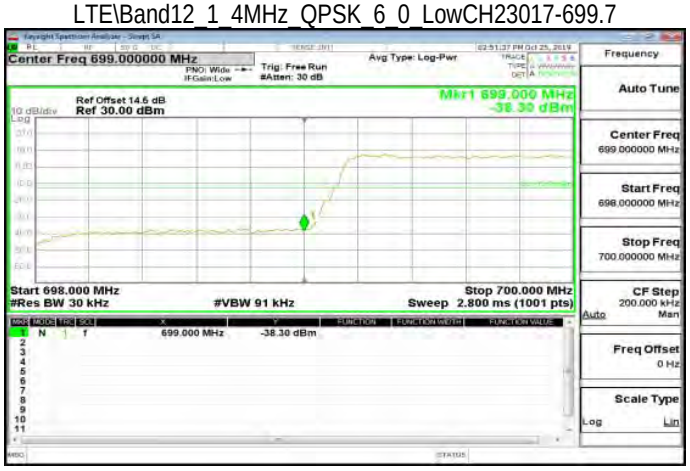
LTE\Band12_1_4MHz_QPSK_1_5_HighCH23173-715.3



LTE\Band12_3MHz_QPSK_1_0_LowCH23025-700.5



LTE\Band12_1_4MHz_QPSK_6_0_LowCH23017-699.7



LTE\Band12_3MHz_QPSK_1_14_HighCH23165-714.5

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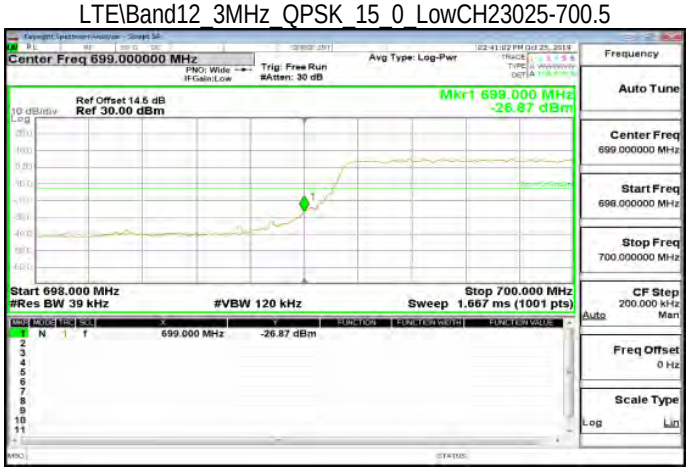
LTE\Band12_3MHz_QPSK_15_0_LowCH23025-700.5



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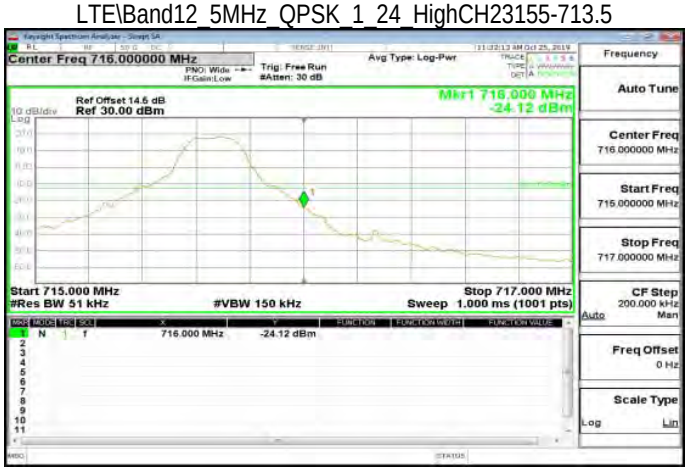

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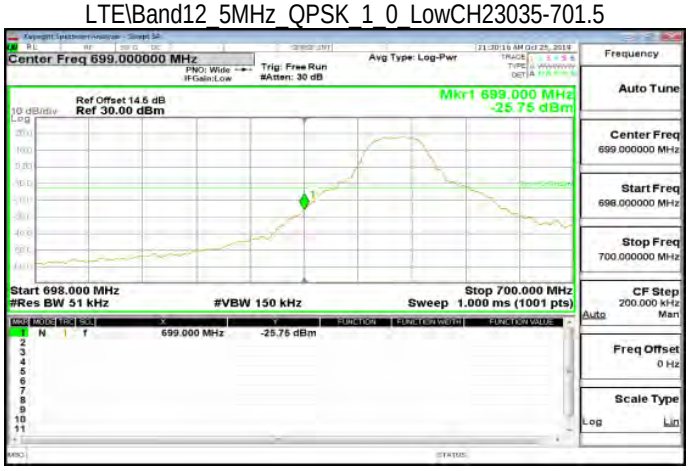
LTE\Band12_5MHz_QPSK_1_0_LowCH23035-701.5



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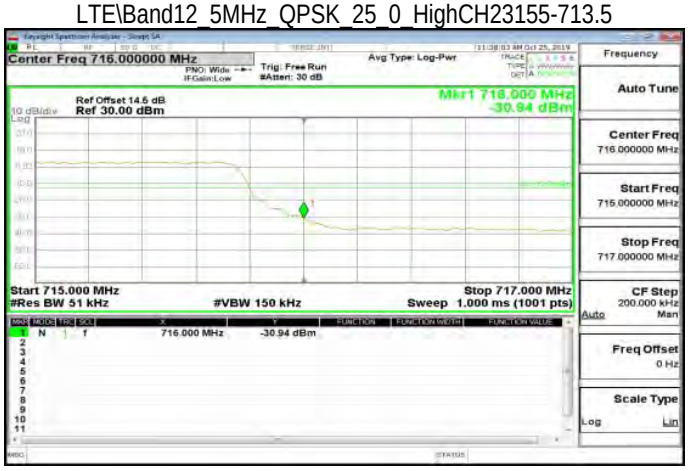

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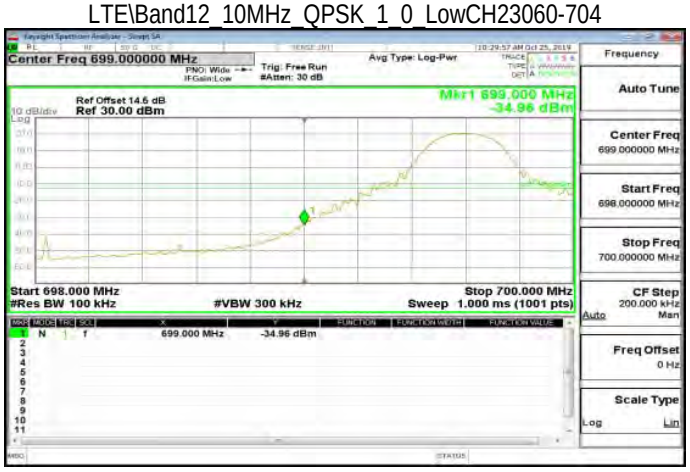
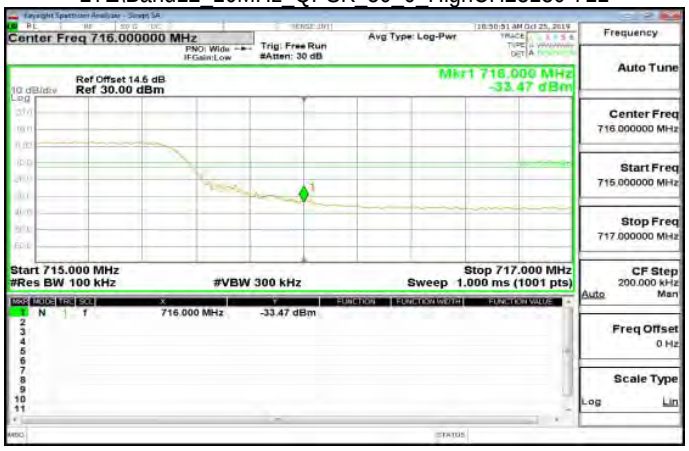
LTE\Band12_10MHz_QPSK_1_0_LowCH23060-704



LTE\Band12_10MHz_QPSK_50_0_HighCH23130-711



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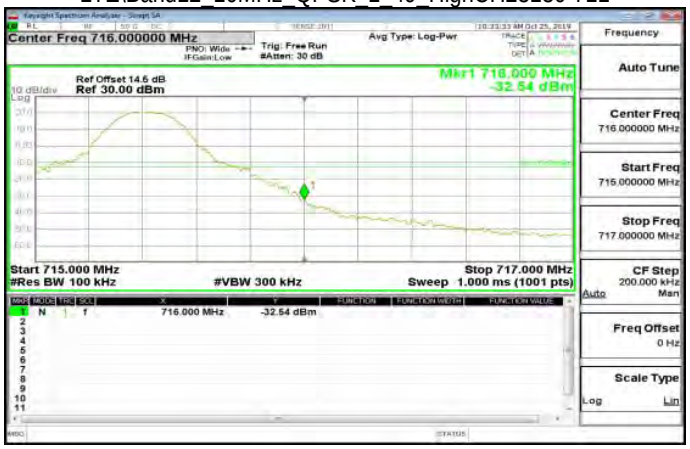
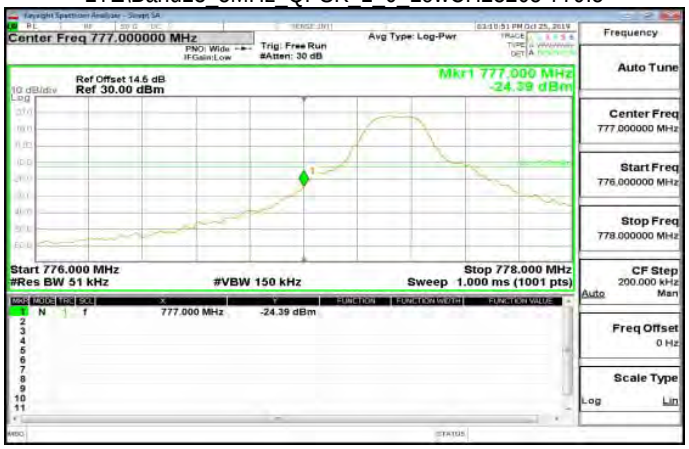


LTE\Band13_5MHz_QPSK_1_0_LowCH23205-779.5



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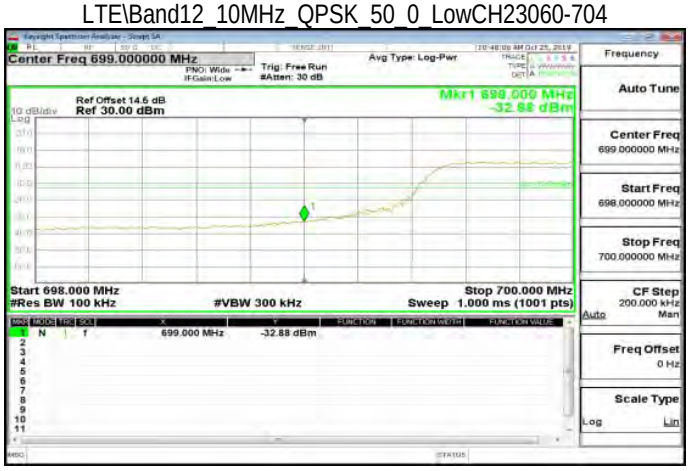
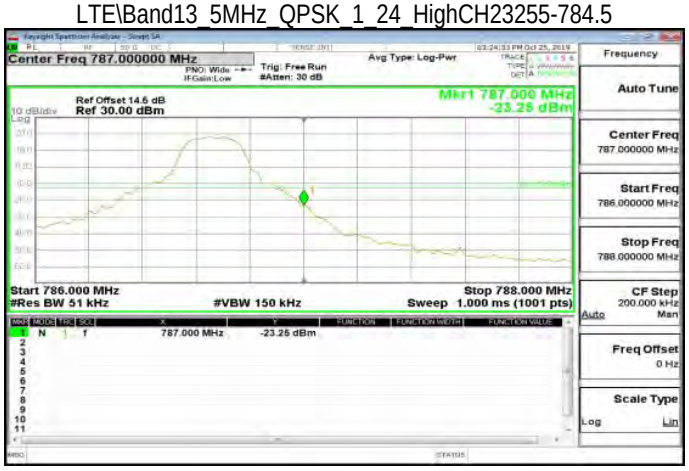


LTE\Band13_5MHz_QPSK_1_24_HighCH23255-784.5



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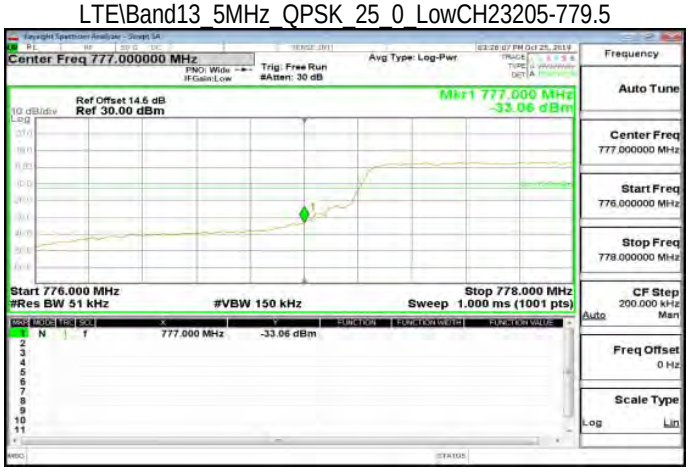
LTE\Band13_5MHz_QPSK_25_0_LowCH23205-779.5



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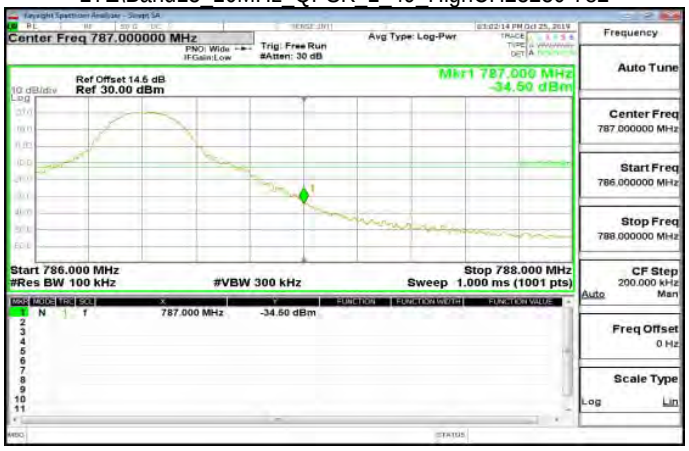

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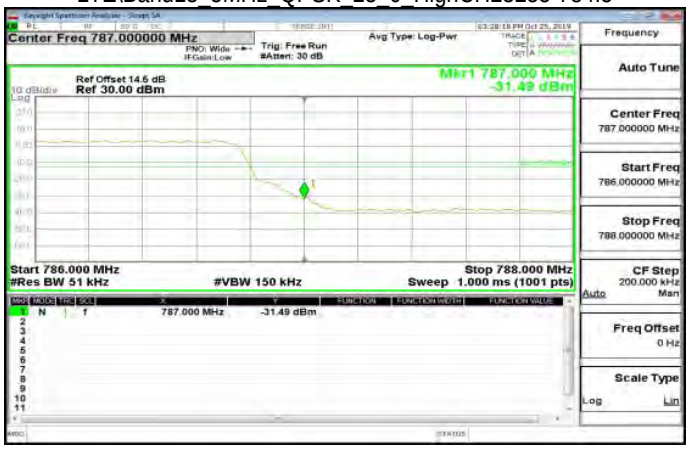

LTE\Band13_10MHz_QPSK_50_0_LowCH23230-782

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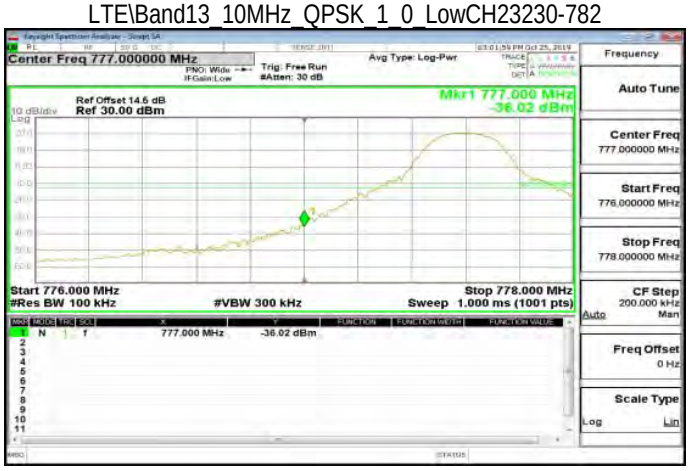

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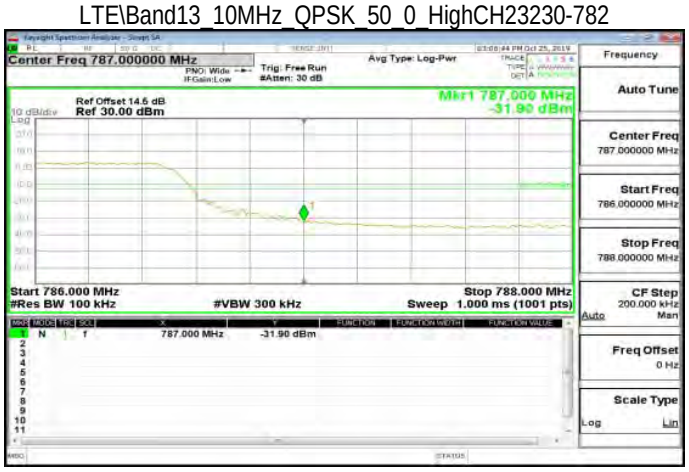

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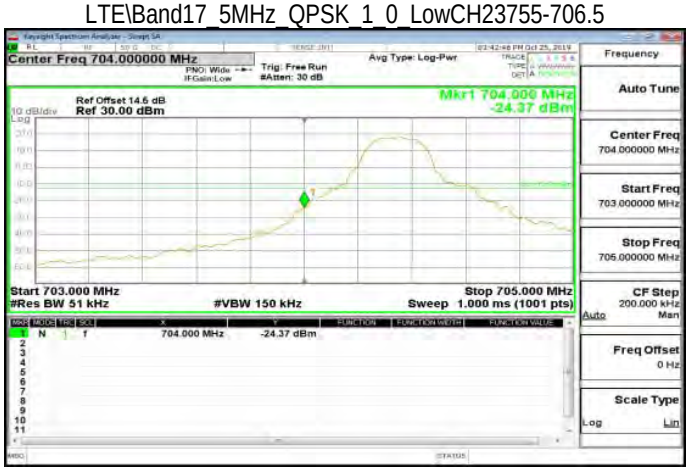
LTE\Band17_5MHz_QPSK_1_0_LowCH23755-706.5



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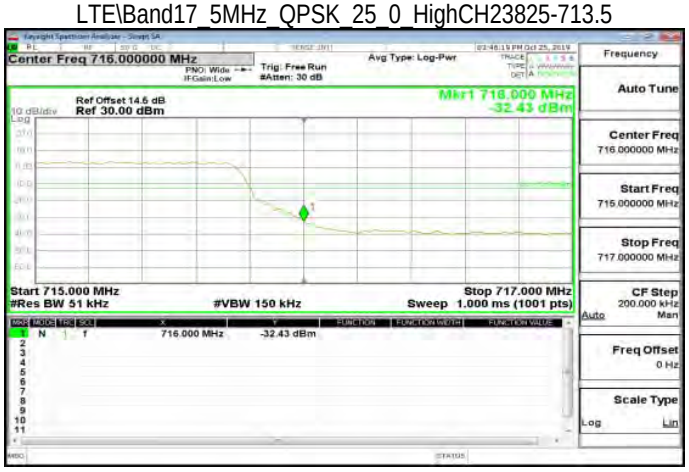
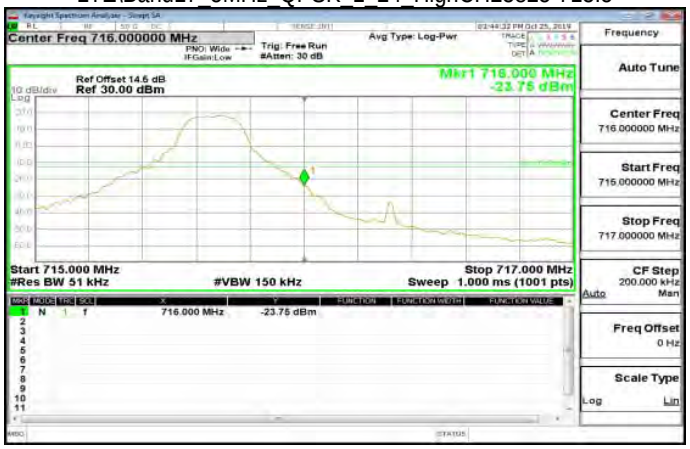


LTE\Band17_5MHz_QPSK_1_24_HighCH23825-713.5



LTE\Band17_10MHz_QPSK_1_0_LowCH23780-709

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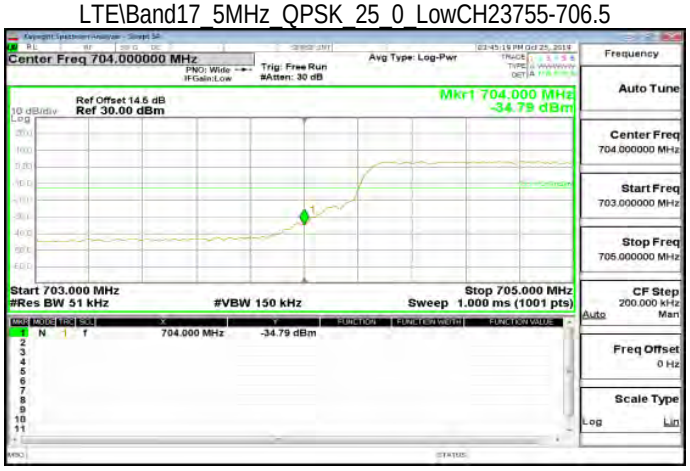
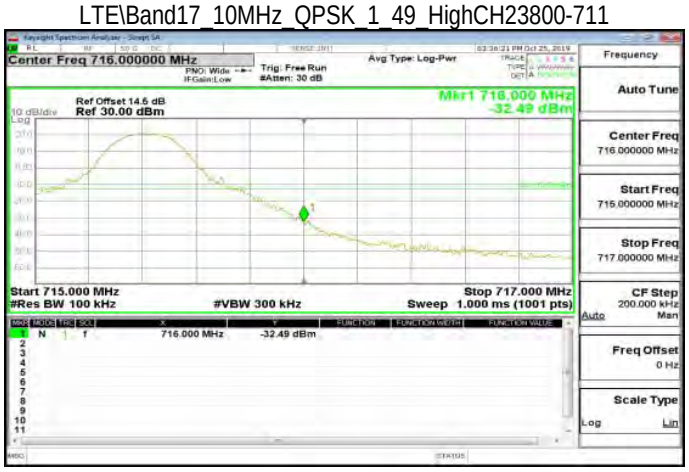


LTE\Band17_10MHz_QPSK_1_49_HighCH23800-711



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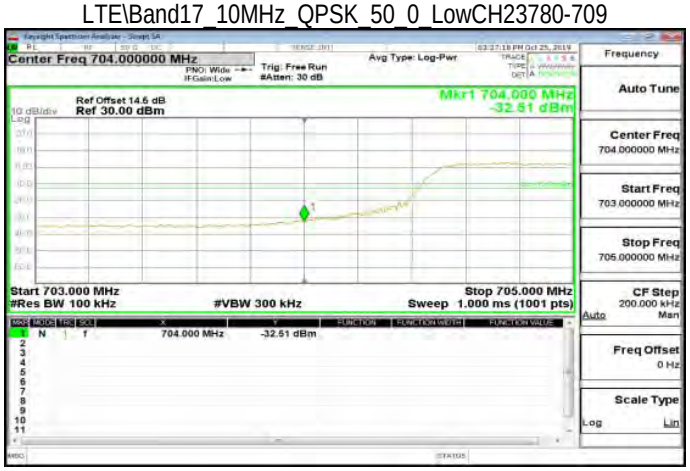
LTE\Band17_10MHz_QPSK_50_0_LowCH23780-709



LTE\Band17_10MHz_QPSK_50_0_HighCH23800-711

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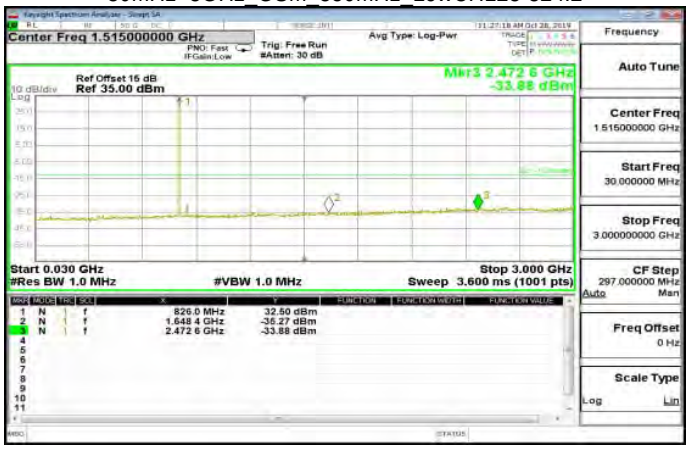
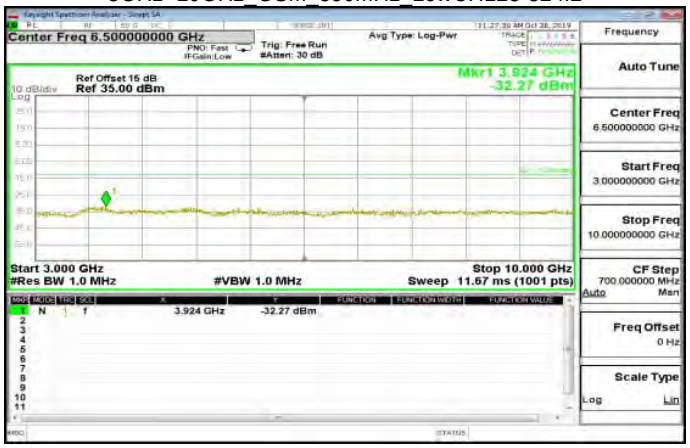
Out of Band Emission

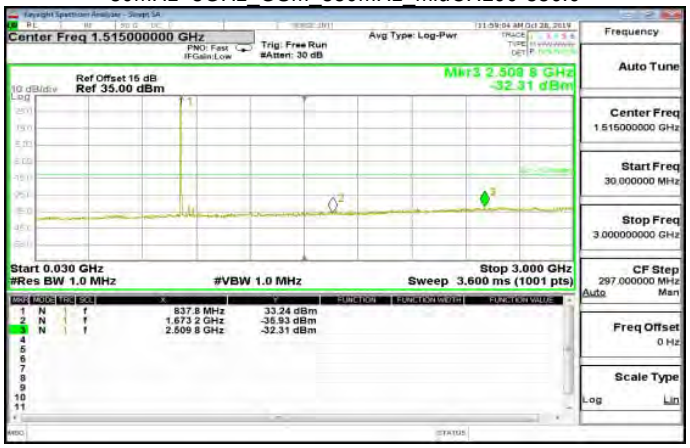
30MHz~3GHz_GSM_850MHz_LowCH128-824.2



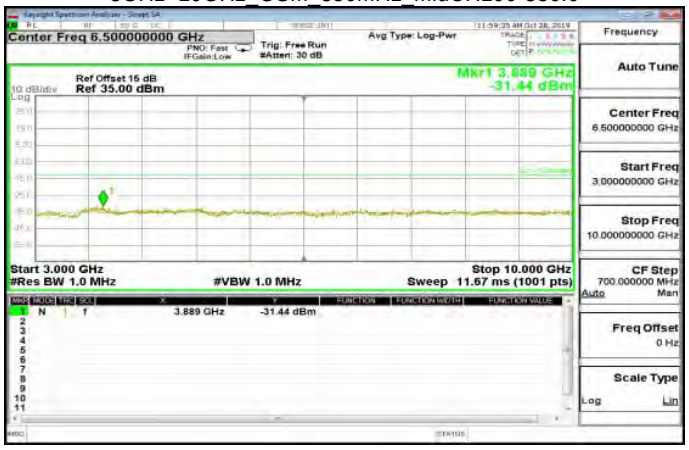
3GHz~10GHz_GSM_850MHz_LowCH128-824.2



30MHz~3GHz_GSM_850MHz_MidCH190-836.6

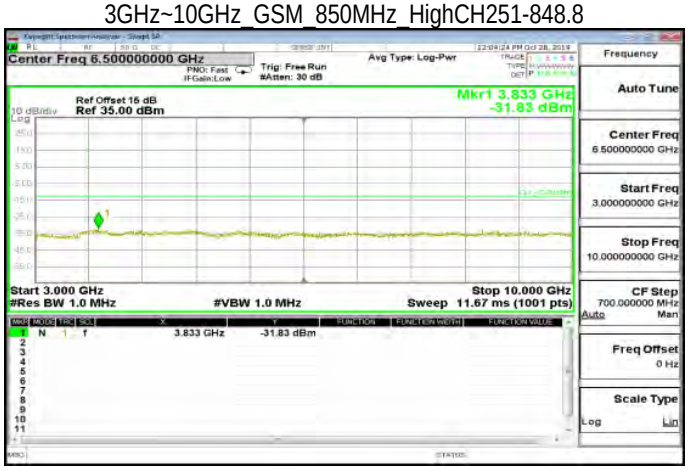


3GHz~10GHz_GSM_850MHz_MidCH190-836.6



30MHz~3GHz_GSM_850MHz_HighCH251-848.8

3GHz~10GHz_GSM_850MHz_HighCH251-848.8



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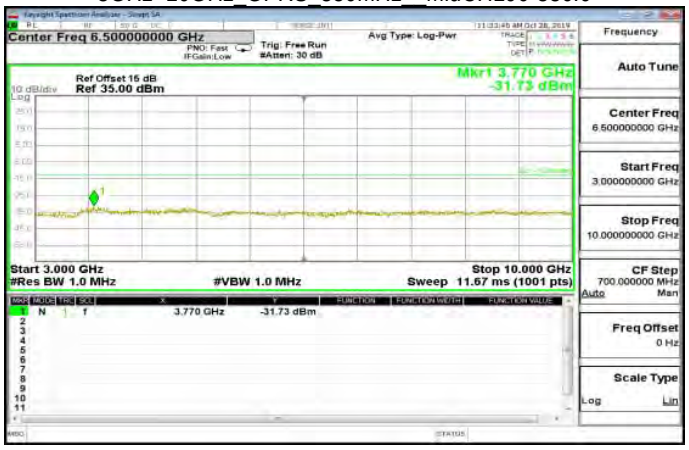
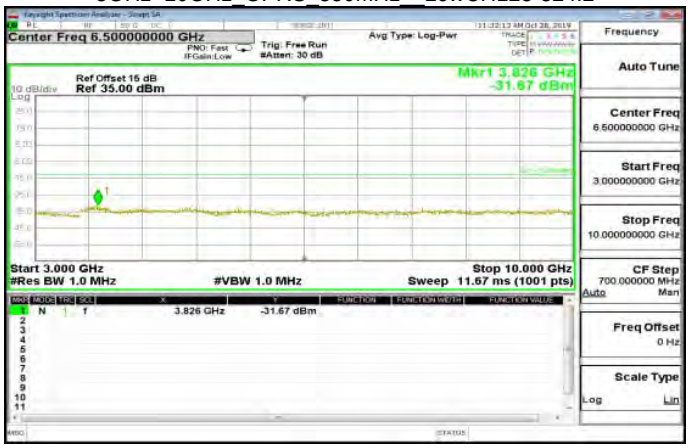
30MHz~3GHz_GPRS_850MHz__LowCH128-824.2

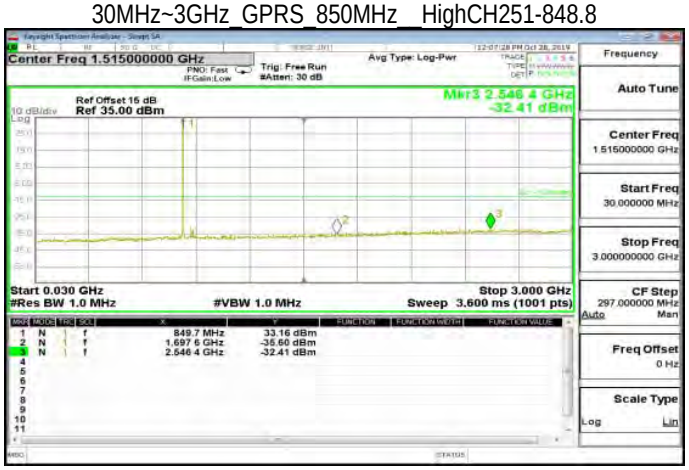
3GHz~10GHz_GPRS_850MHz__MidCH190-836.6



3GHz~10GHz_GPRS_850MHz__LowCH128-824.2

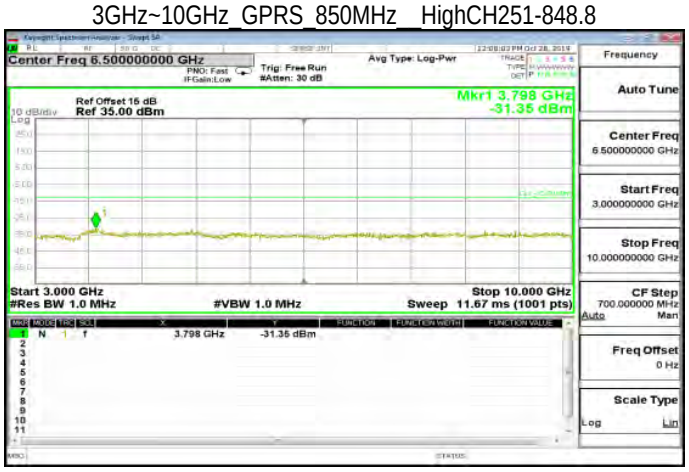


30MHz~3GHz_GPRS_850MHz__HighCH251-848.8



30MHz~3GHz_GPRS_850MHz__MidCH190-836.6

3GHz~10GHz_GPRS_850MHz__HighCH251-848.8



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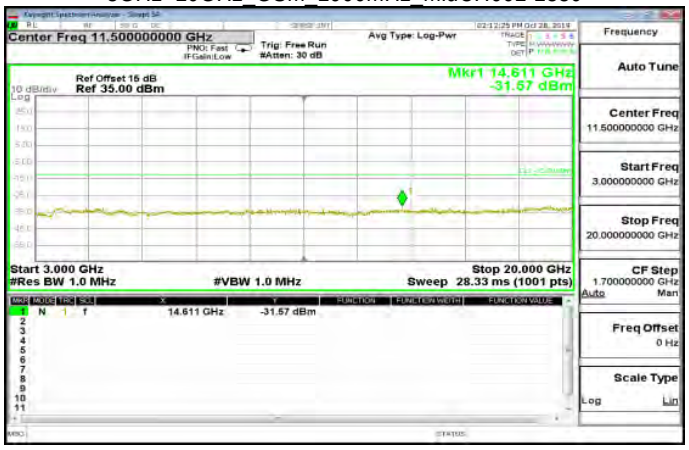
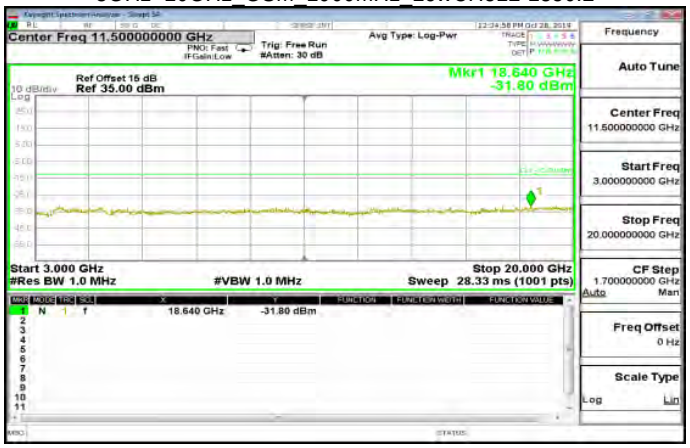
30MHz~3GHz_GSM_1900MHz_LowCH512-1850.2

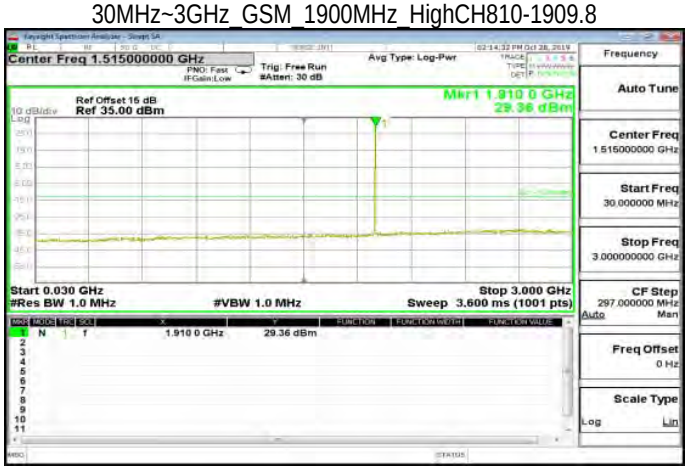
3GHz~10GHz_GSM_1900MHz_MidCH661-1880



3GHz~10GHz_GSM_1900MHz_LowCH512-1850.2

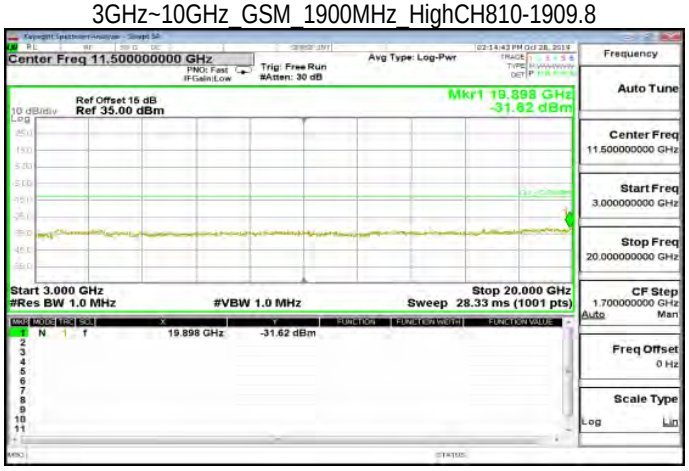


30MHz~3GHz_GSM_1900MHz_HighCH810-1909.8



30MHz~3GHz_GSM_1900MHz_MidCH661-1880

3GHz~10GHz_GSM_1900MHz_HighCH810-1909.8



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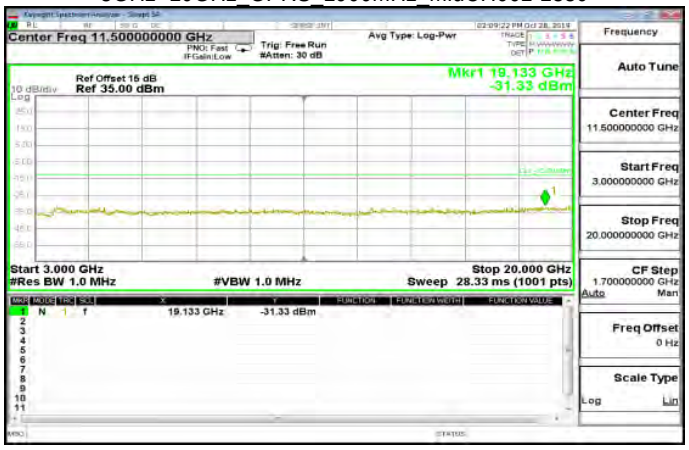
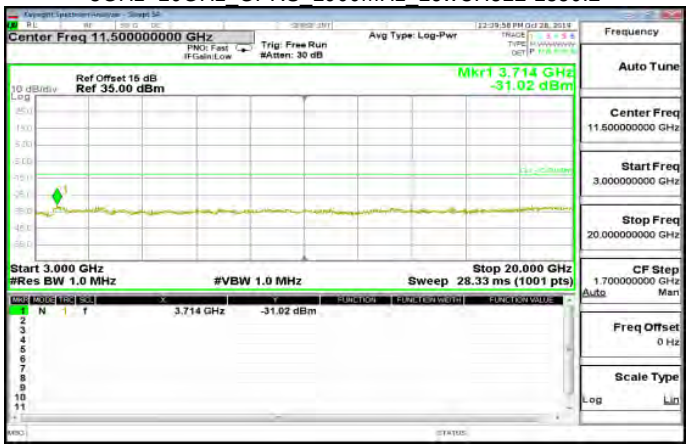
30MHz~3GHz_GPRS_1900MHz_LowCH512-1850.2

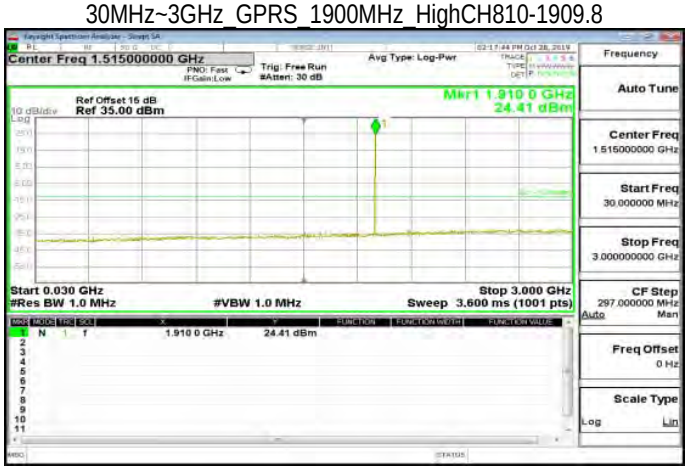
3GHz~10GHz_GPRS_1900MHz_MidCH661-1880



3GHz~10GHz_GPRS_1900MHz_LowCH512-1850.2

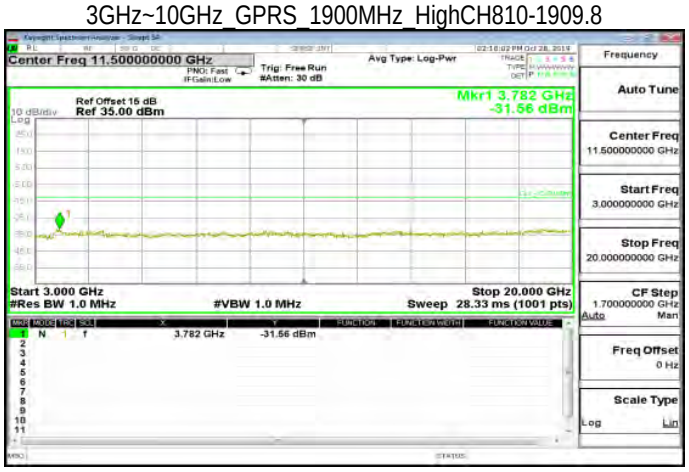


30MHz~3GHz_GPRS_1900MHz_HighCH810-1909.8



30MHz~3GHz_GPRS_1900MHz_MidCH661-1880

3GHz~10GHz_GPRS_1900MHz_HighCH810-1909.8



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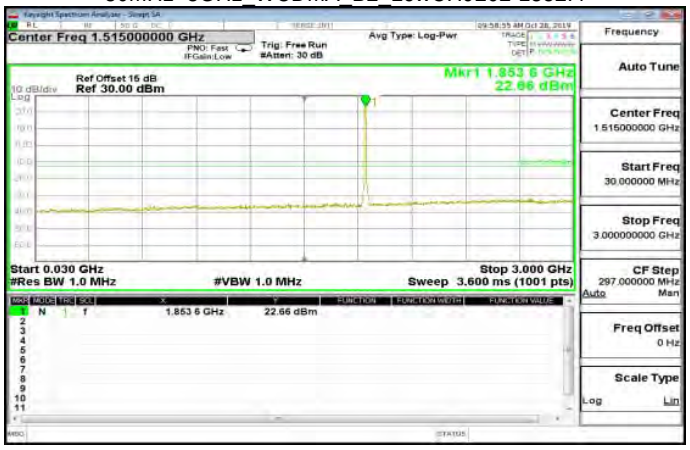
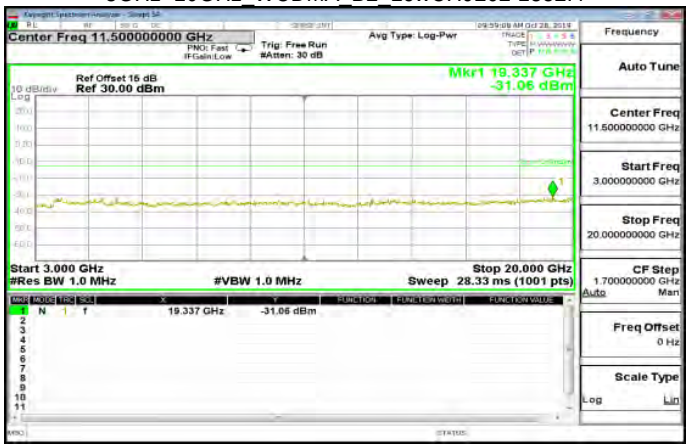
30MHz~3GHz_WCDMA_B2_LowCH9262-1852.4

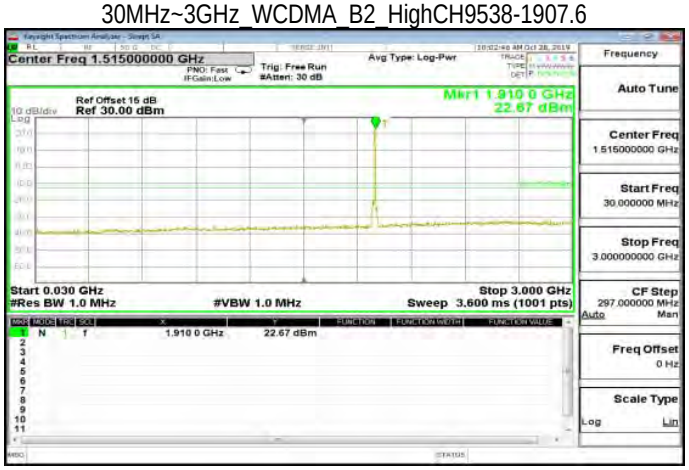


3GHz~10GHz_WCDMA_B2_MidCH9400-1880

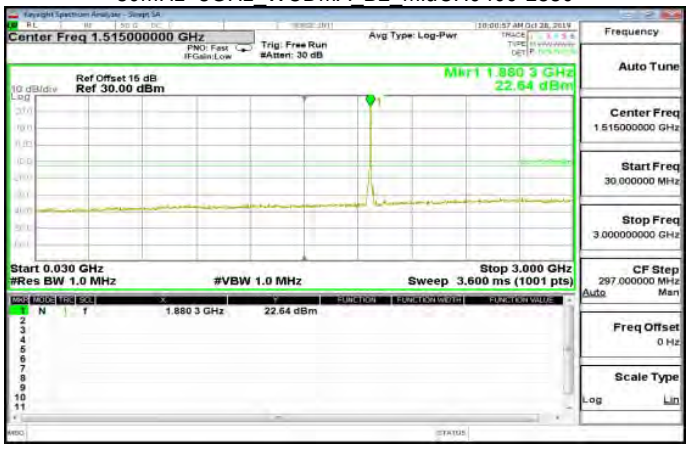
3GHz~10GHz_WCDMA_B2_LowCH9262-1852.4



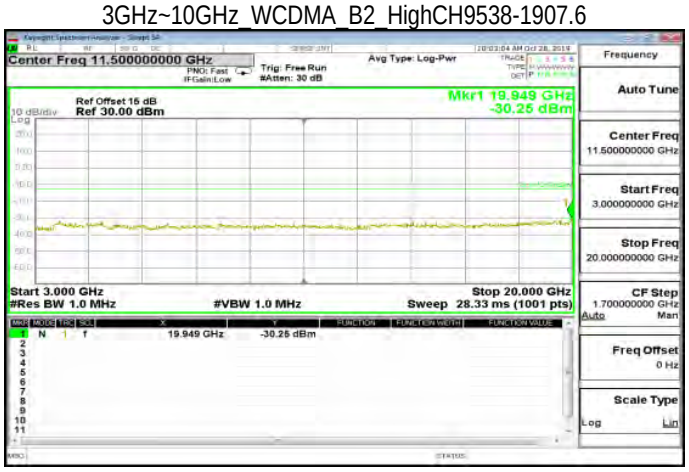
30MHz~3GHz_WCDMA_B2_HighCH9538-1907.6



30MHz~3GHz_WCDMA_B2_MidCH9400-1880



3GHz~10GHz_WCDMA_B2_HighCH9538-1907.6



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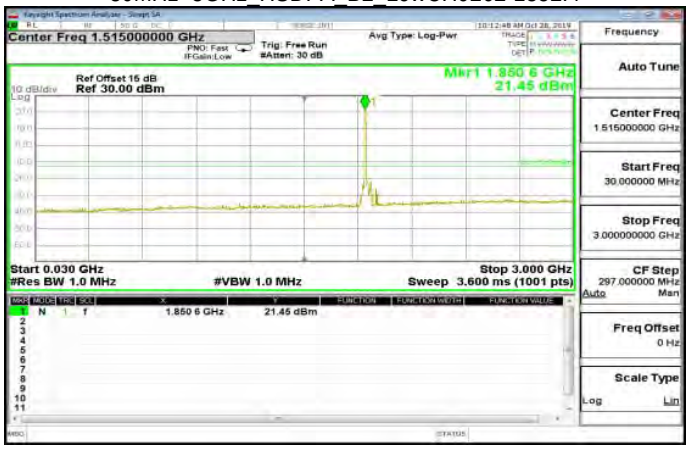
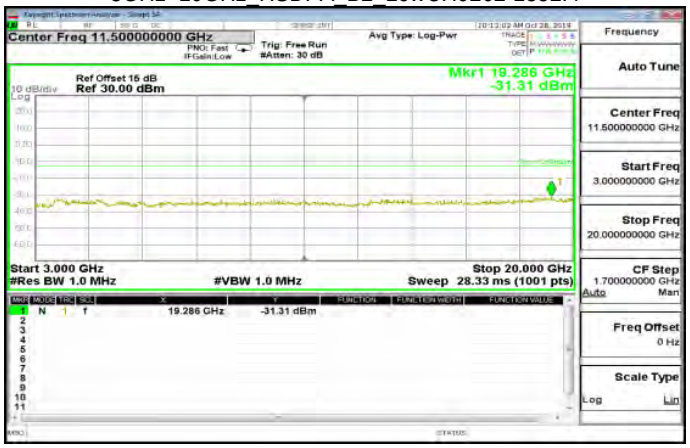
30MHz~3GHz_HSDPA_B2_LowCH9262-1852.4

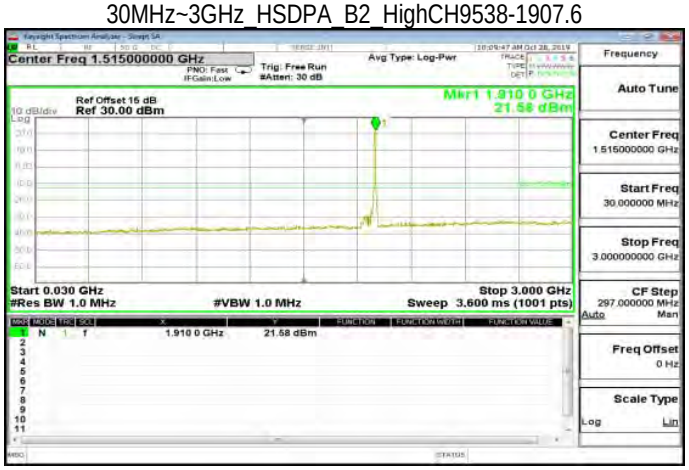


3GHz~10GHz_HSDPA_B2_MidCH9400-1880

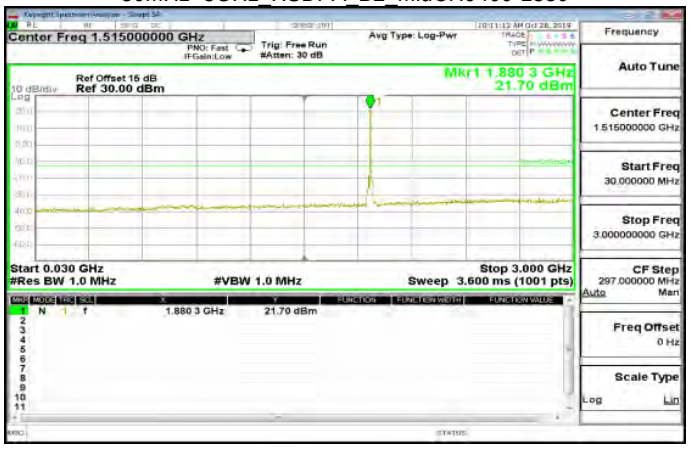
3GHz~10GHz_HSDPA_B2_LowCH9262-1852.4



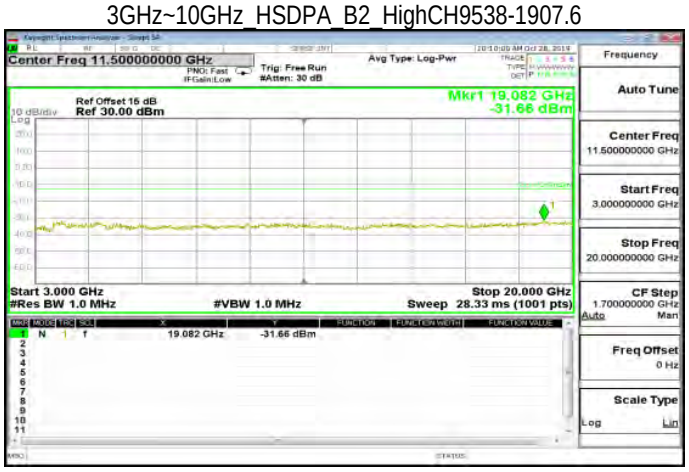
30MHz~3GHz_HSDPA_B2_HighCH9538-1907.6



30MHz~3GHz_HSDPA_B2_MidCH9400-1880



3GHz~10GHz_HSDPA_B2_HighCH9538-1907.6



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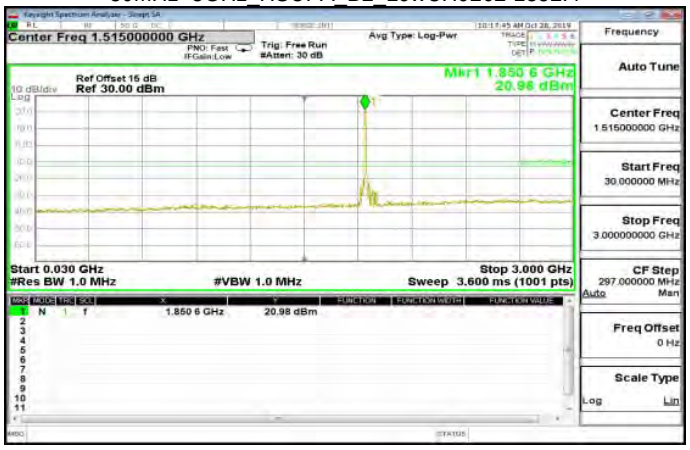
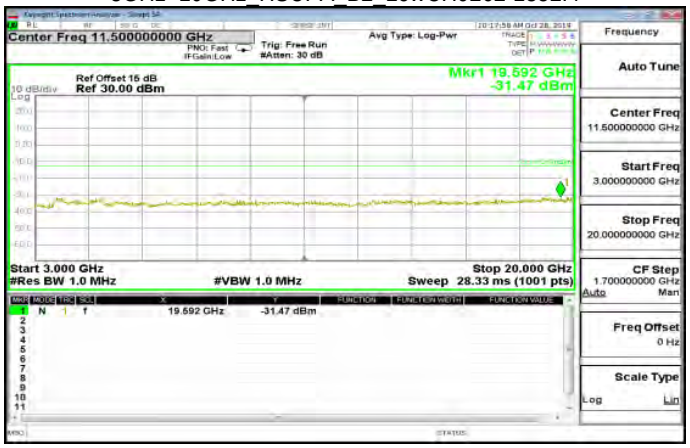
30MHz~3GHz_HSUPA_B2_LowCH9262-1852.4

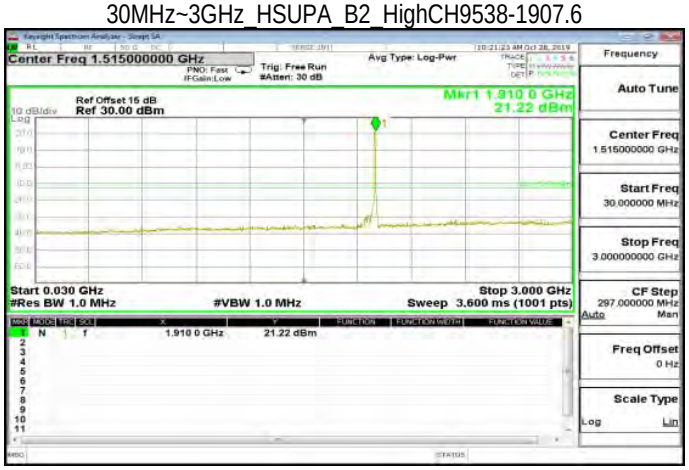


3GHz~10GHz_HSUPA_B2_MidCH9400-1880

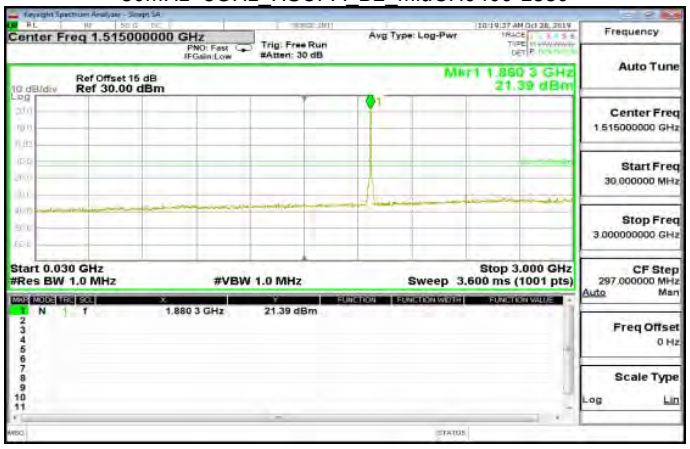
3GHz~10GHz_HSUPA_B2_LowCH9262-1852.4



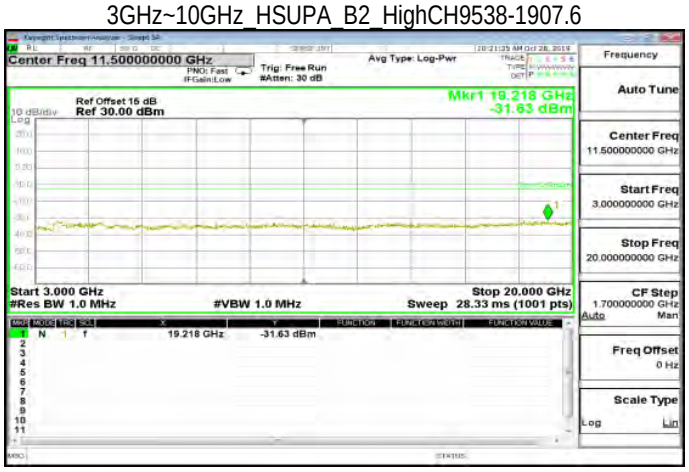
30MHz~3GHz_HSUPA_B2_HighCH9538-1907.6



30MHz~3GHz_HSUPA_B2_MidCH9400-1880



3GHz~10GHz_HSUPA_B2_HighCH9538-1907.6



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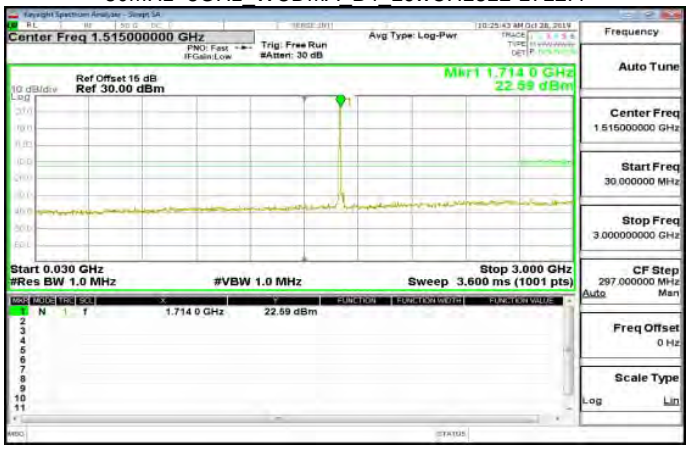
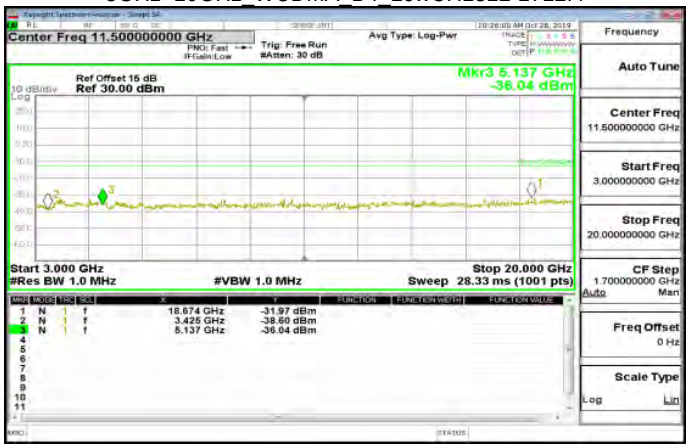
30MHz~3GHz_WCDMA_B4_LowCH1312-1712.4

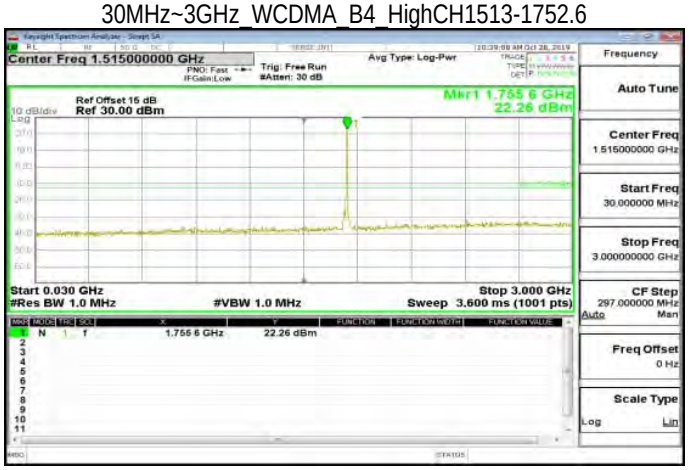


3GHz~10GHz_WCDMA_B4_MidCH1413-1732.6

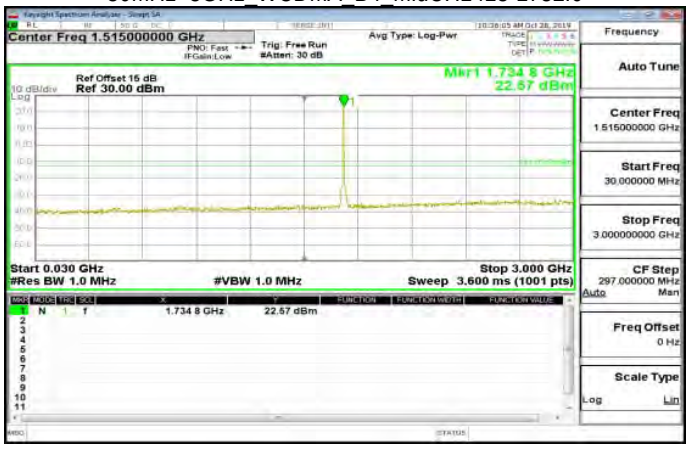
3GHz~10GHz_WCDMA_B4_LowCH1312-1712.4



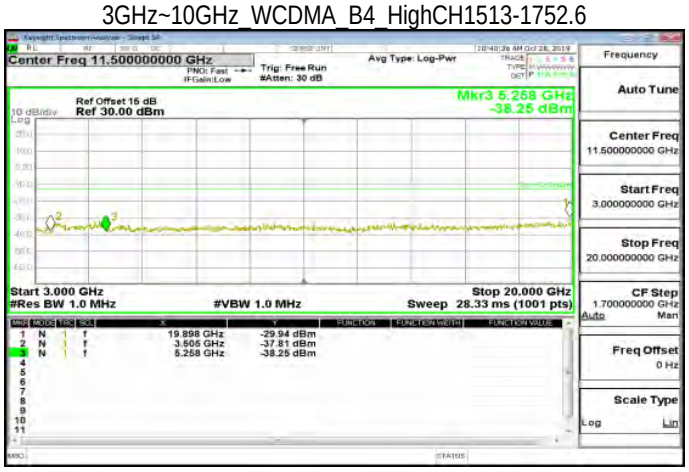
30MHz~3GHz_WCDMA_B4_HighCH1513-1752.6



30MHz~3GHz_WCDMA_B4_MidCH1413-1732.6



3GHz~10GHz_WCDMA_B4_HighCH1513-1752.6



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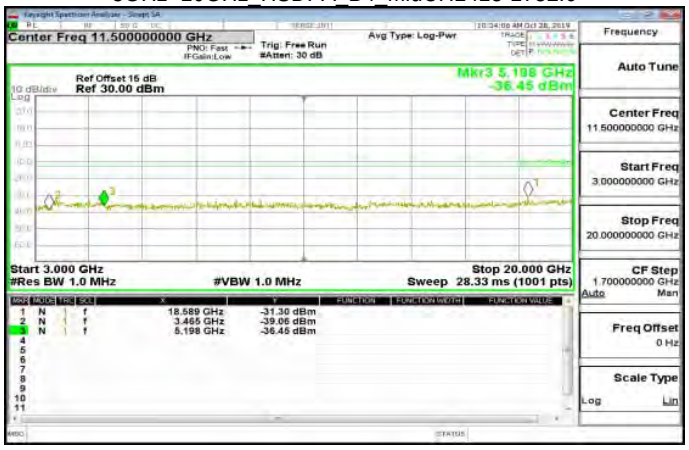
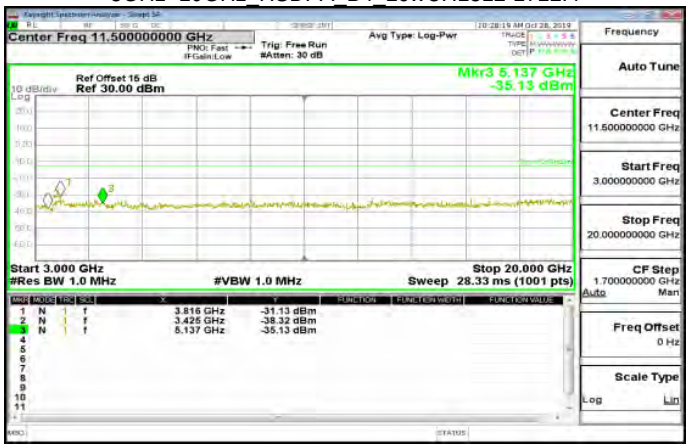
30MHz~3GHz_HSDPA_B4_LowCH1312-1712.4

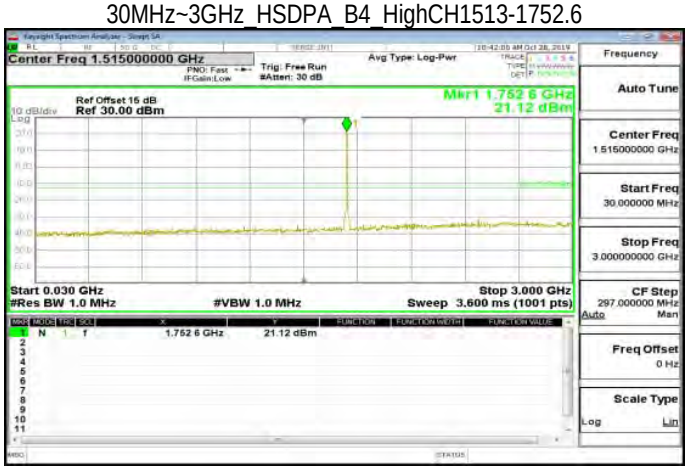
3GHz~10GHz_HSDPA_B4_MidCH1413-1732.6



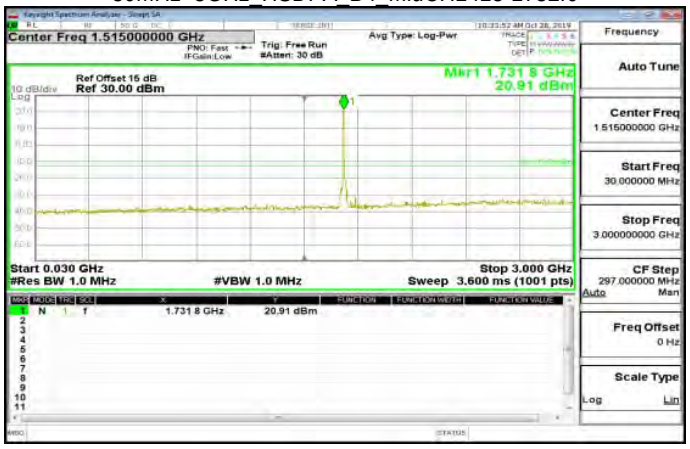
3GHz~10GHz_HSDPA_B4_LowCH1312-1712.4



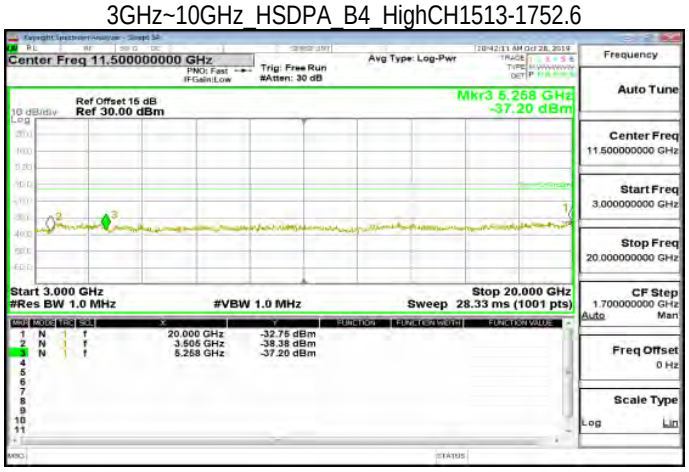
30MHz~3GHz_HSDPA_B4_HighCH1513-1752.6



30MHz~3GHz_HSDPA_B4_MidCH1413-1732.6



3GHz~10GHz_HSDPA_B4_HighCH1513-1752.6



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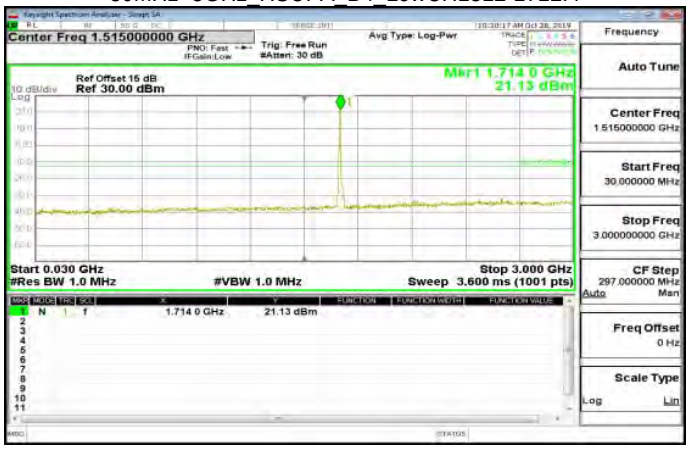
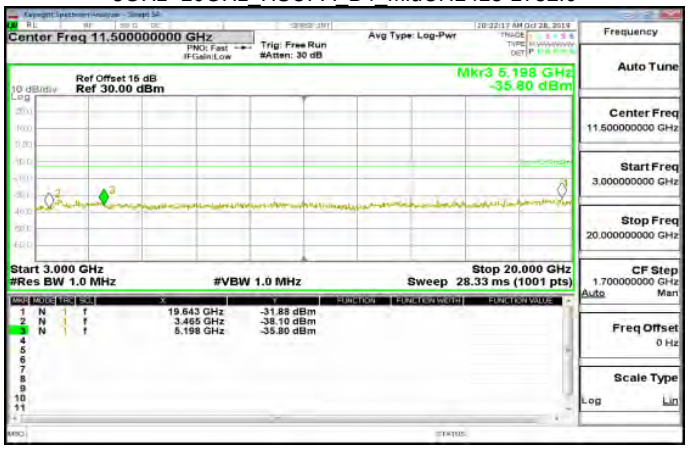
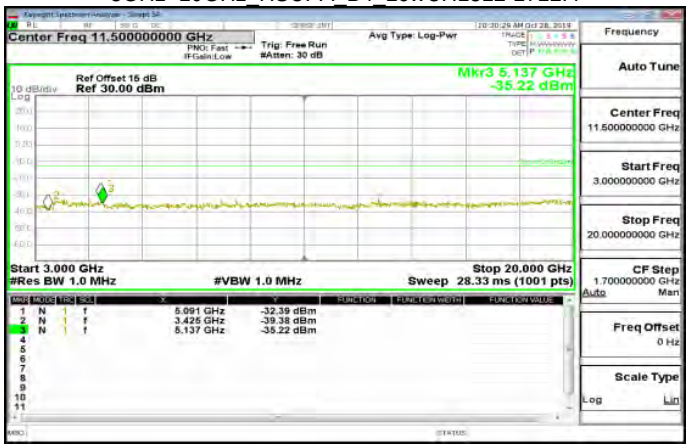
30MHz~3GHz_HSUPA_B4_LowCH1312-1712.4



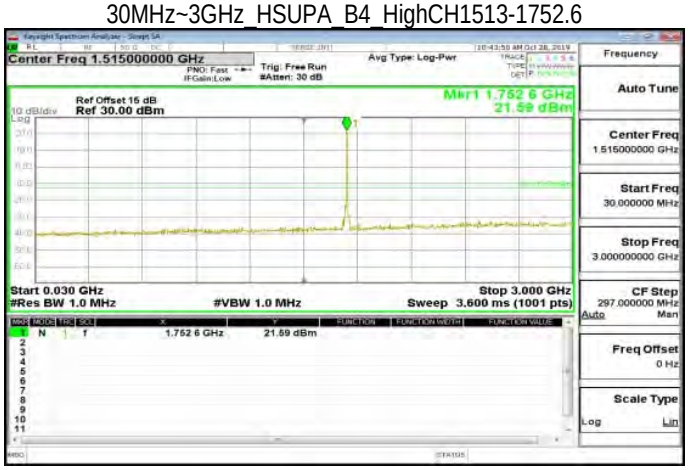
3GHz~10GHz_HSUPA_B4_MidCH1413-1732.6



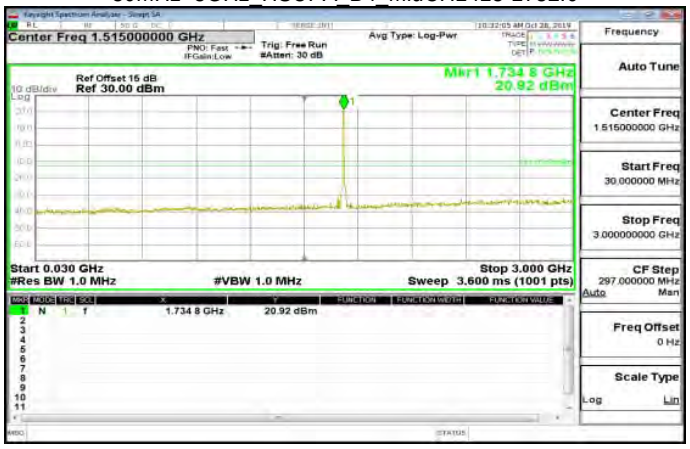
3GHz~10GHz_HSUPA_B4_LowCH1312-1712.4



30MHz~3GHz_HSUPA_B4_HighCH1513-1752.6



30MHz~3GHz_HSUPA_B4_MidCH1413-1732.6



3GHz~10GHz_HSUPA_B4_HighCH1513-1752.6

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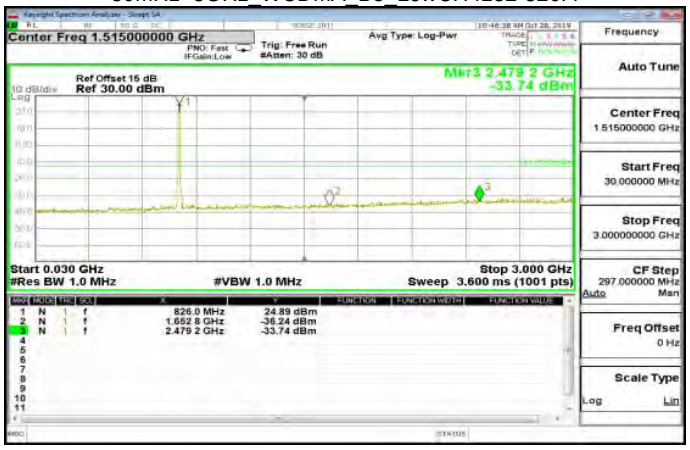
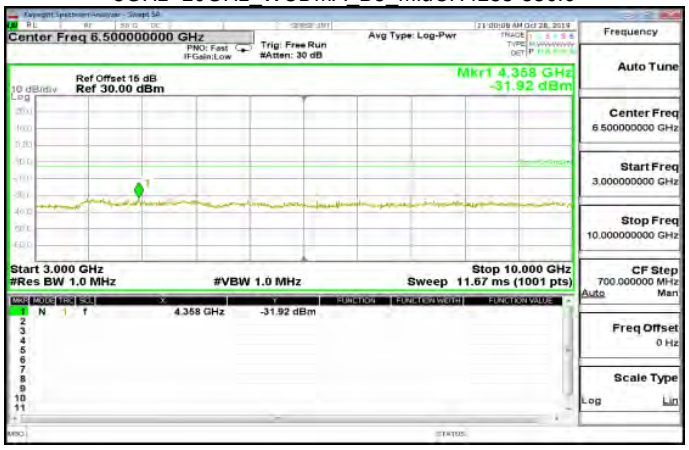
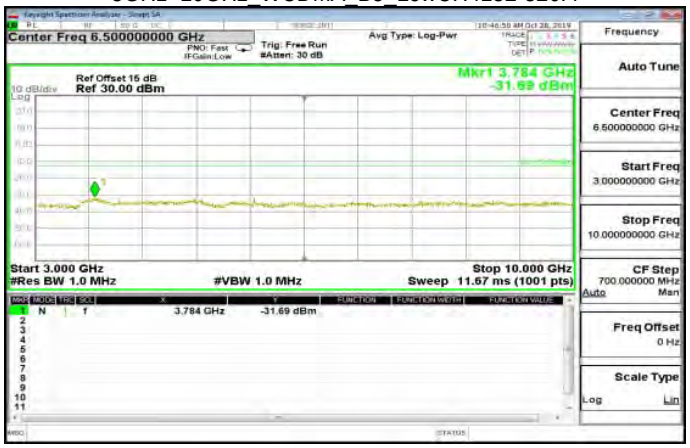
30MHz~3GHz_WCDMA_B5_LowCH4132-826.4



3GHz~10GHz_WCDMA_B5_MidCH4183-836.6



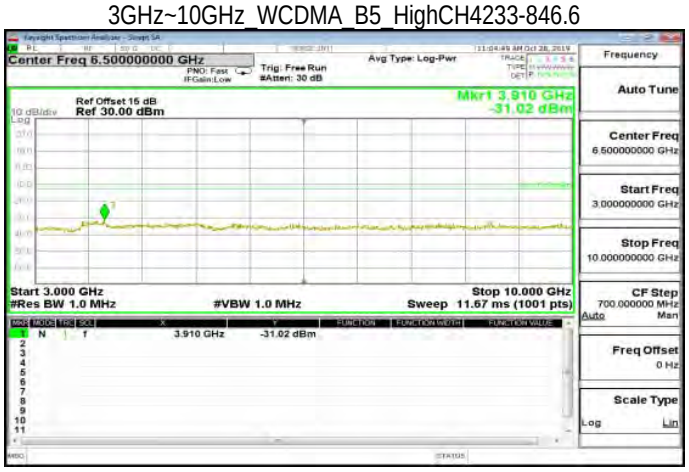
3GHz~10GHz_WCDMA_B5_LowCH4132-826.4



30MHz~3GHz_WCDMA_B5_HighCH4233-846.6

30MHz~3GHz_WCDMA_B5_MidCH4183-836.6

3GHz~10GHz_WCDMA_B5_HighCH4233-846.6



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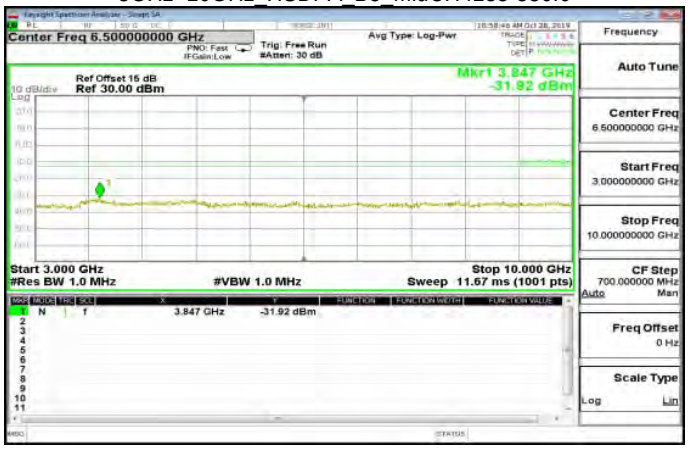
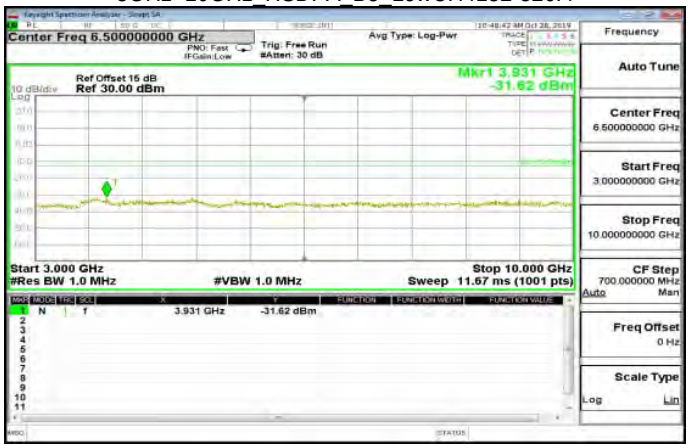
30MHz~3GHz_HSDPA_B5_LowCH4132-826.4

3GHz~10GHz_HSDPA_B5_MidCH4183-836.6



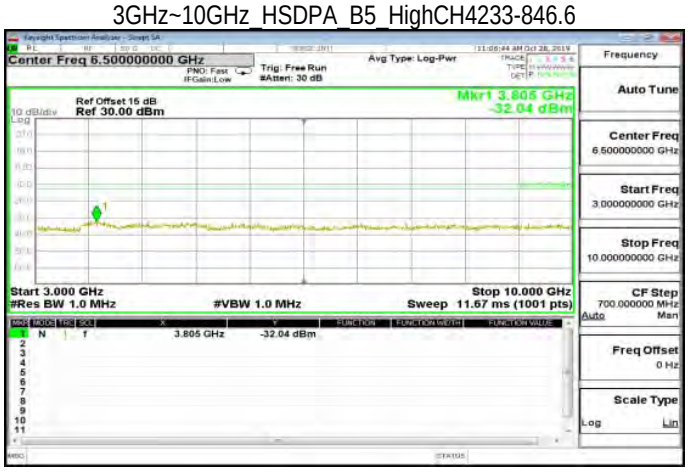
3GHz~10GHz_HSDPA_B5_LowCH4132-826.4



30MHz~3GHz_HSDPA_B5_HighCH4233-846.6

30MHz~3GHz_HSDPA_B5_MidCH4183-836.6

3GHz~10GHz_HSDPA_B5_HighCH4233-846.6



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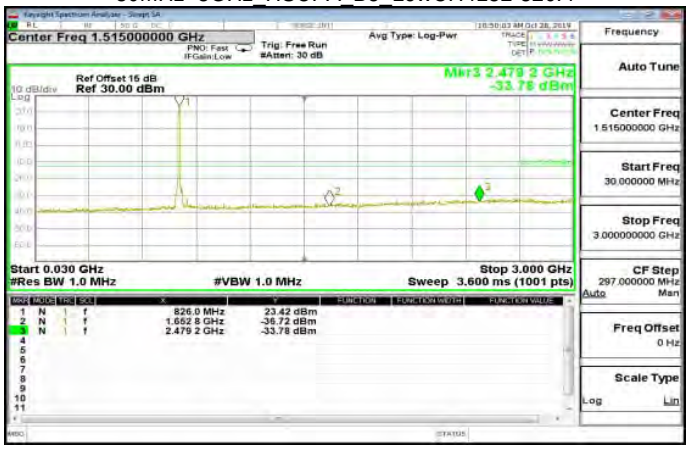
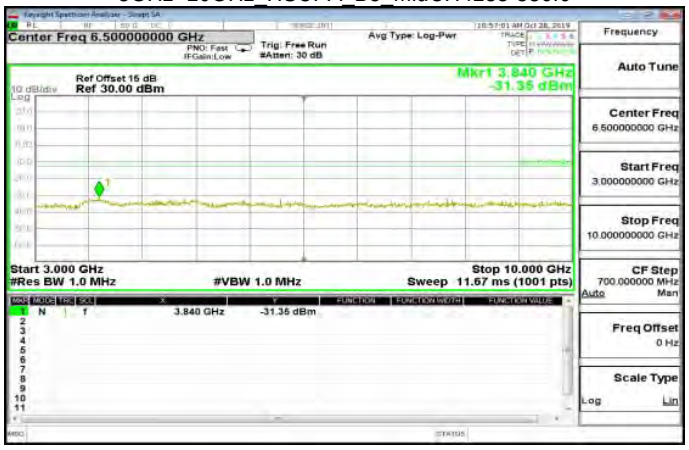
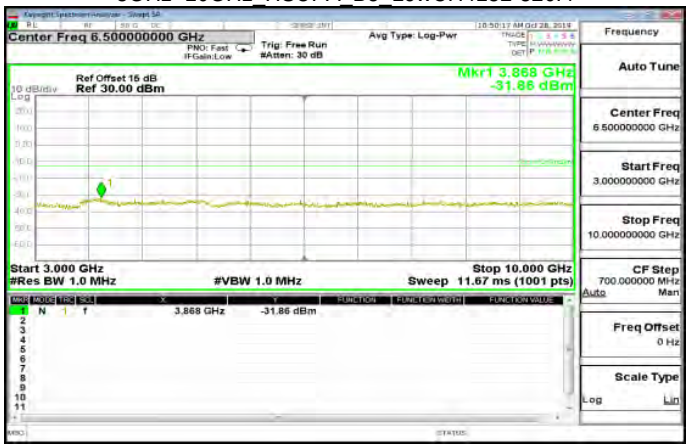
30MHz~3GHz_HSUPA_B5_LowCH4132-826.4



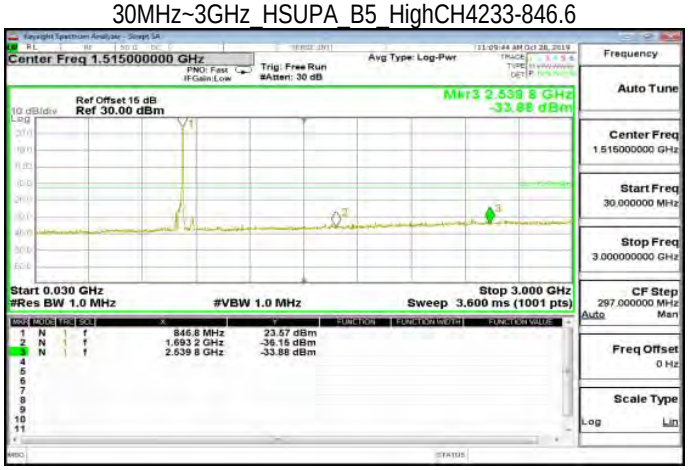
3GHz~10GHz_HSUPA_B5_MidCH4183-836.6



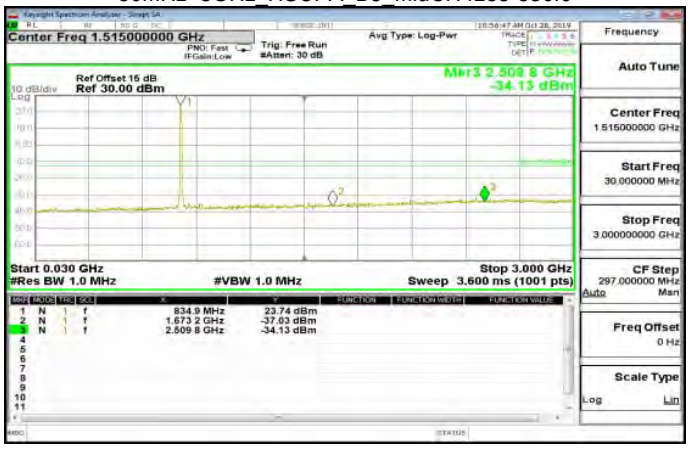
3GHz~10GHz_HSUPA_B5_LowCH4132-826.4



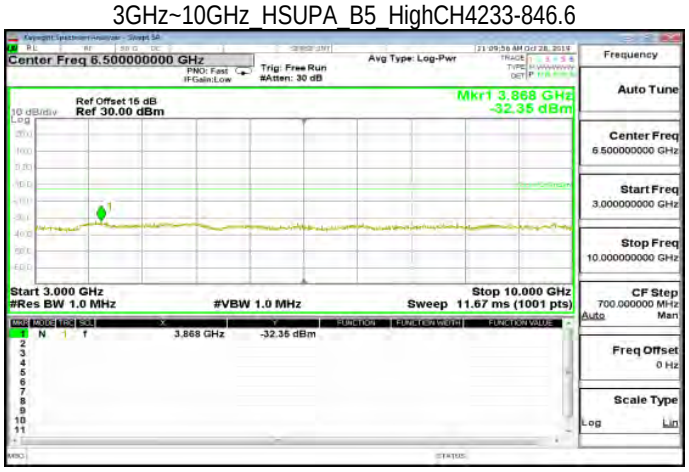
30MHz~3GHz_HSUPA_B5_HighCH4233-846.6



30MHz~3GHz_HSUPA_B5_MidCH4183-836.6



3GHz~10GHz_HSUPA_B5_HighCH4233-846.6



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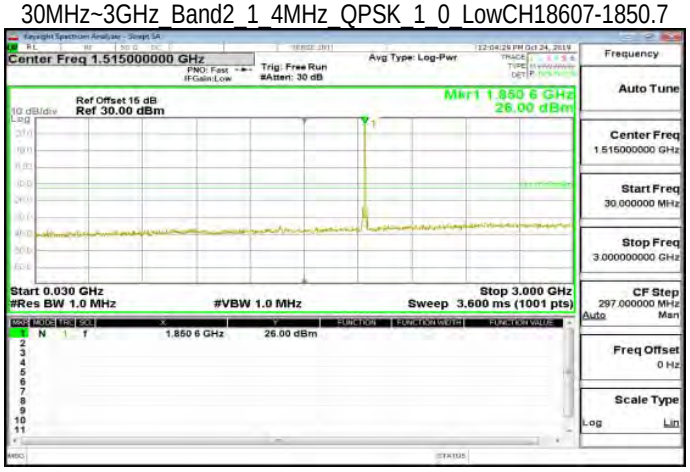
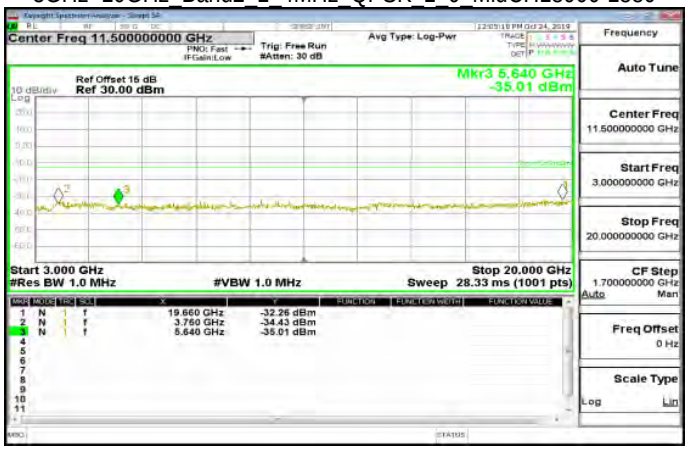
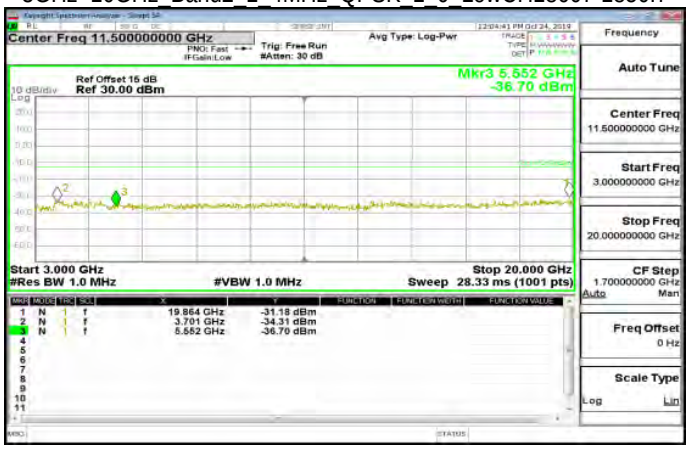
30MHz~3GHz_Band2_1_4MHz_QPSK_1_0_LowCH18607-1850.7



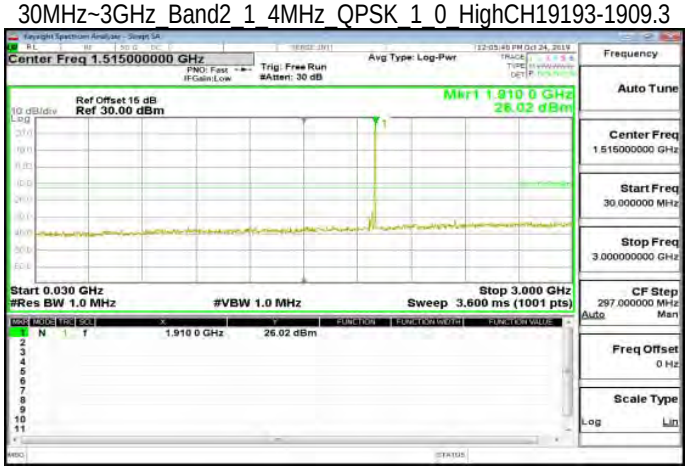
3GHz~10GHz_Band2_1_4MHz_QPSK_1_0_MidCH18900-1880



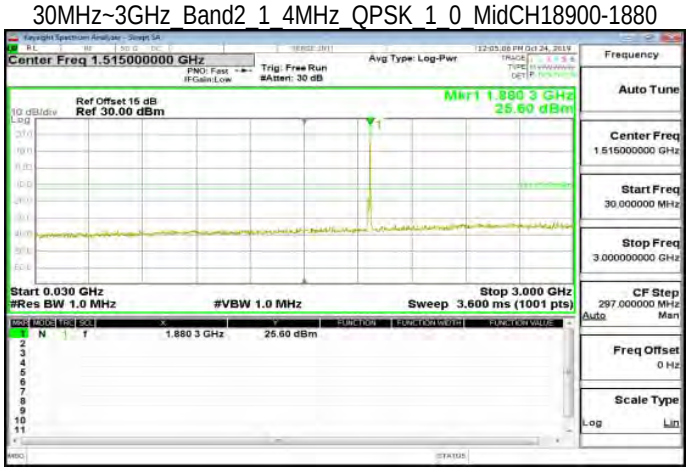
3GHz~10GHz_Band2_1_4MHz_QPSK_1_0_LowCH18607-1850.7



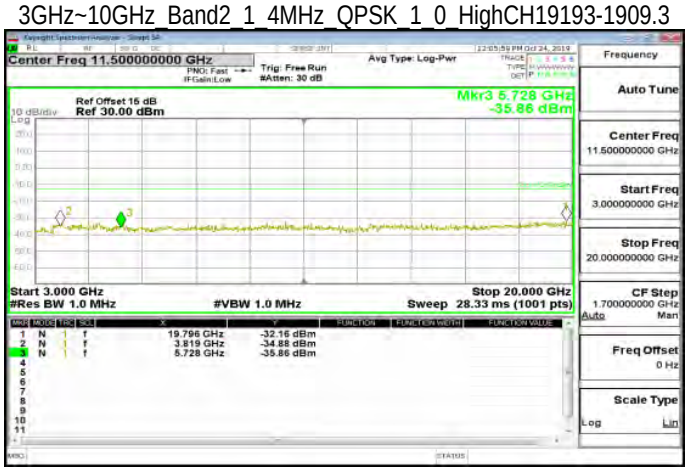
30MHz~3GHz_Band2_1_4MHz_QPSK_1_0_HighCH19193-1909.3



30MHz~3GHz_Band2_1_4MHz_QPSK_1_0_MidCH18900-1880



3GHz~10GHz_Band2_1_4MHz_QPSK_1_0_HighCH19193-1909.3



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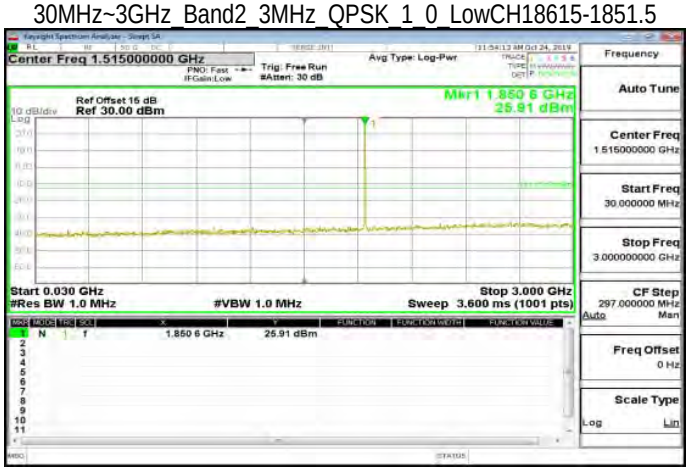
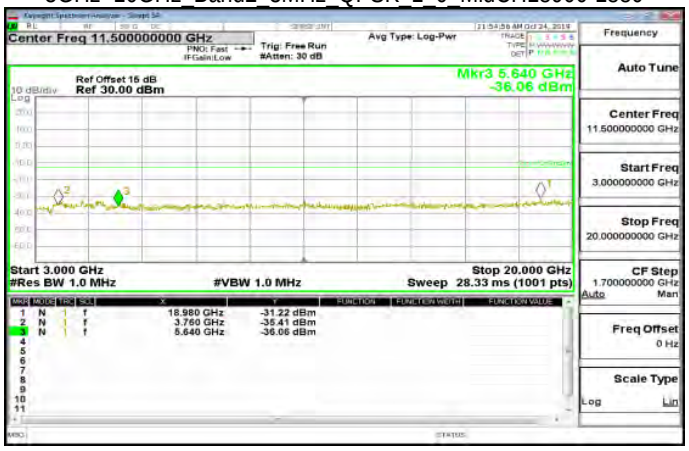
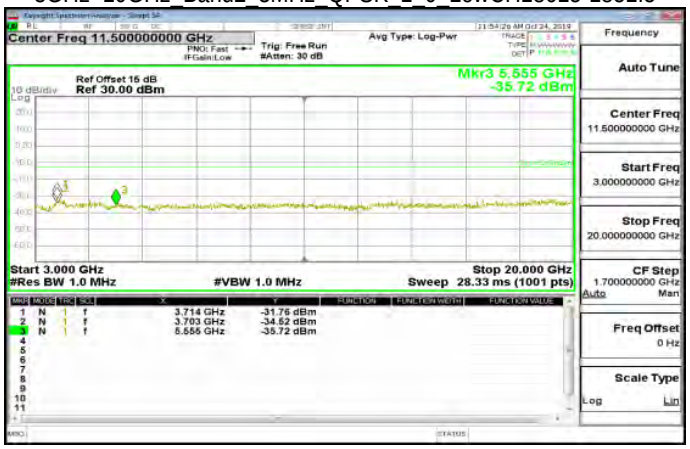
30MHz~3GHz_Band2_3MHz_QPSK_1_0_LowCH18615-1851.5



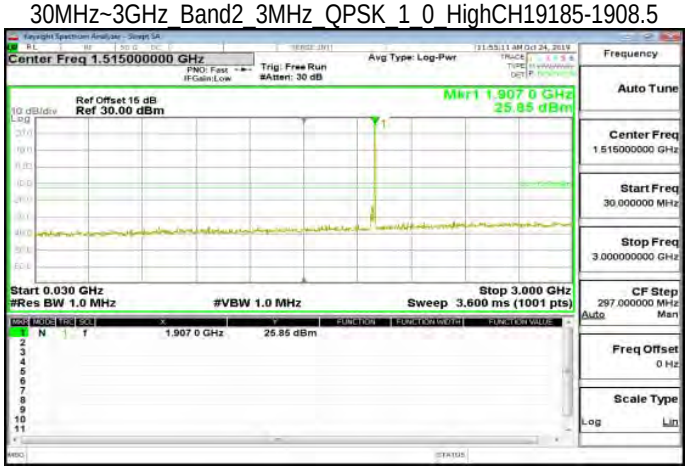
3GHz~10GHz_Band2_3MHz_QPSK_1_0_MidCH18900-1880



3GHz~10GHz_Band2_3MHz_QPSK_1_0_LowCH18615-1851.5

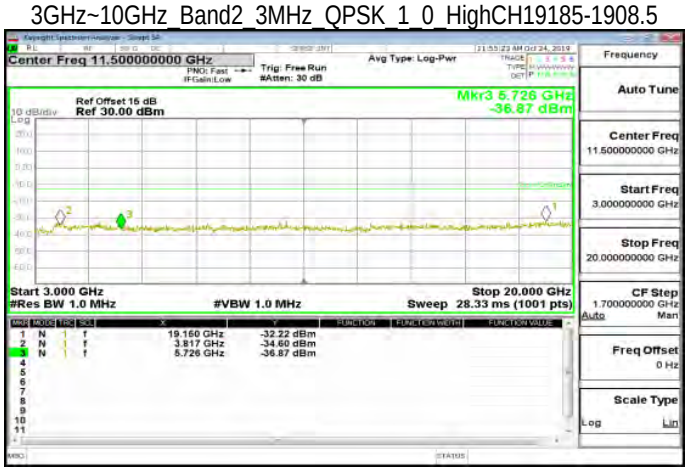


30MHz~3GHz_Band2_3MHz_QPSK_1_0_HighCH19185-1908.5



30MHz~3GHz_Band2_3MHz_QPSK_1_0_MidCH18900-1880

3GHz~10GHz_Band2_3MHz_QPSK_1_0_HighCH19185-1908.5



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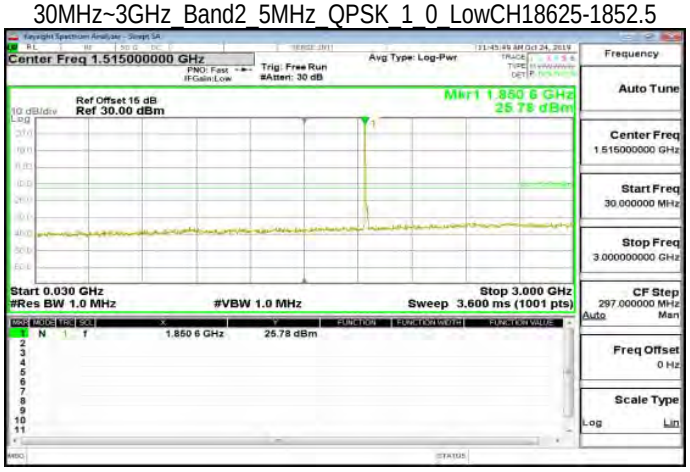
30MHz~3GHz_Band2_5MHz_QPSK_1_0_LowCH18625-1852.5

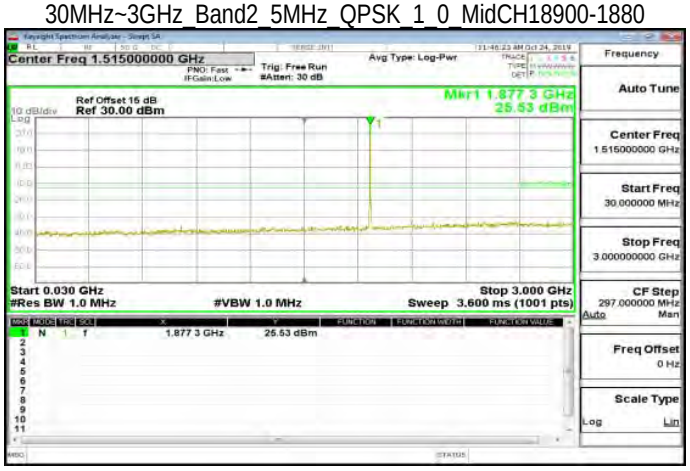


3GHz~10GHz_Band2_5MHz_QPSK_1_0_MidCH18900-1880

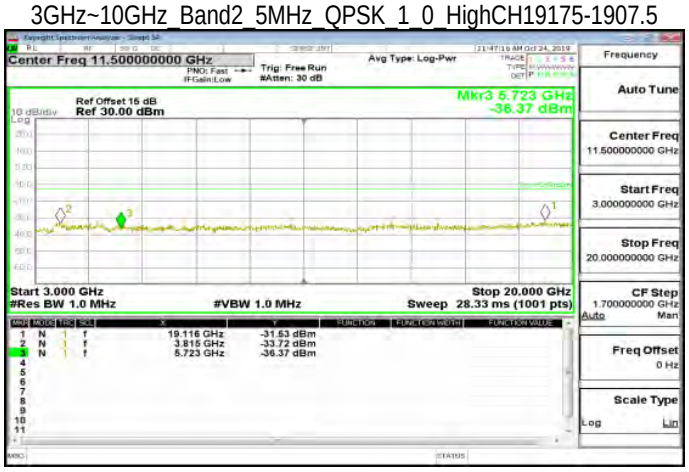
3GHz~10GHz_Band2_5MHz_QPSK_1_0_LowCH18625-1852.5

30MHz~3GHz_Band2_5MHz_QPSK_1_0_HighCH19175-1907.5

30MHz~3GHz_Band2_5MHz_QPSK_1_0_MidCH18900-1880



3GHz~10GHz_Band2_5MHz_QPSK_1_0_HighCH19175-1907.5



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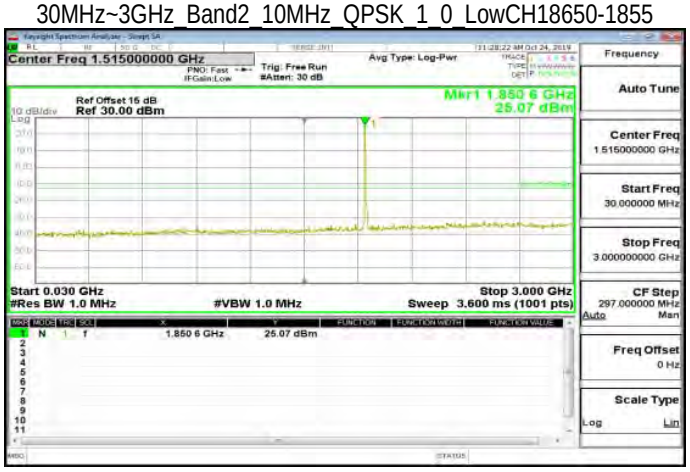
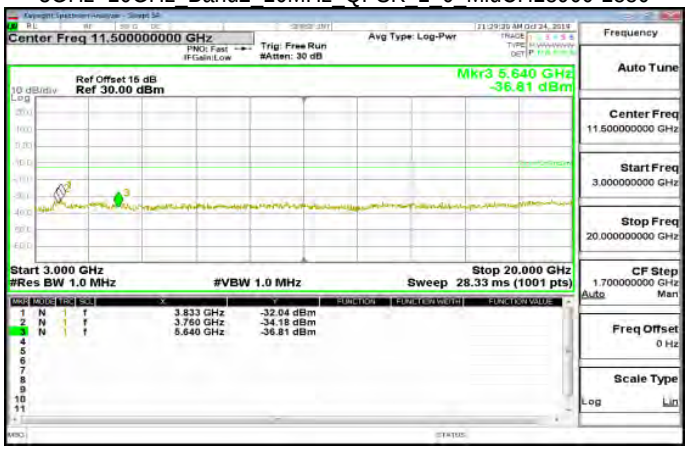
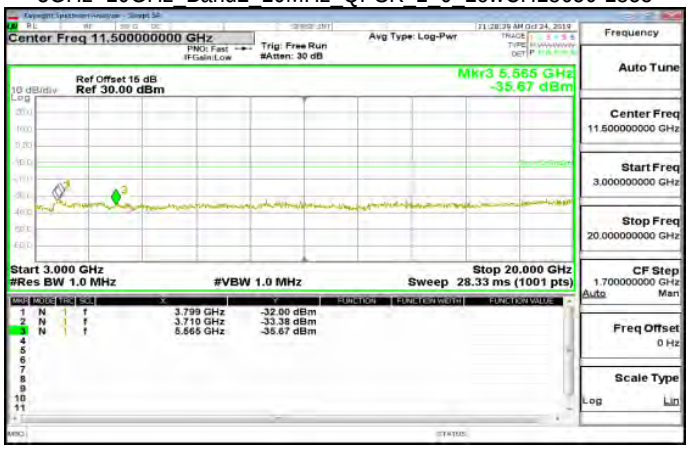
30MHz~3GHz_Band2_10MHz_QPSK_1_0_LowCH18650-1855



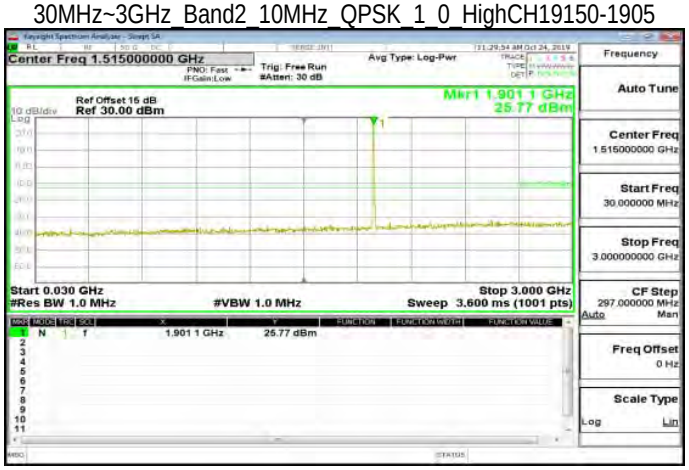
3GHz~10GHz_Band2_10MHz_QPSK_1_0_MidCH18900-1880



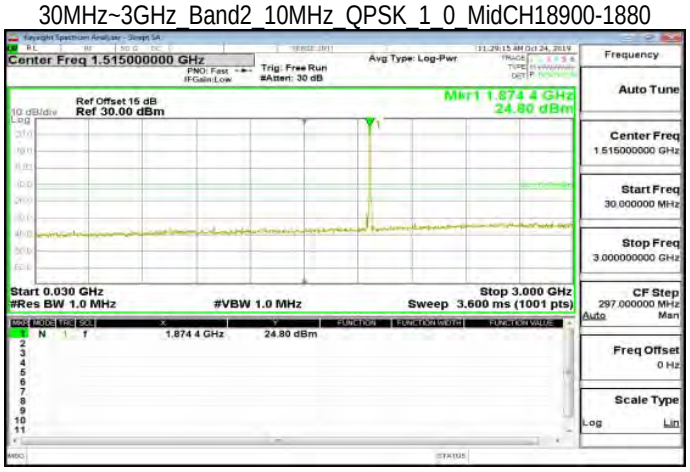
3GHz~10GHz_Band2_10MHz_QPSK_1_0_LowCH18650-1855



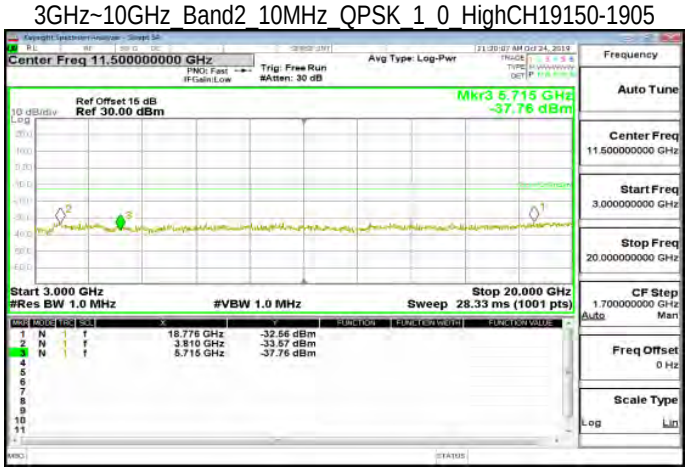
30MHz~3GHz_Band2_10MHz_QPSK_1_0_HighCH19150-1905



30MHz~3GHz_Band2_10MHz_QPSK_1_0_MidCH18900-1880



3GHz~10GHz_Band2_10MHz_QPSK_1_0_HighCH19150-1905



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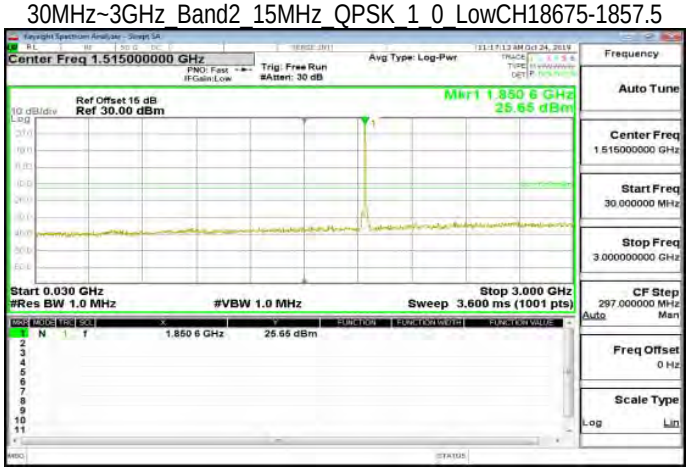
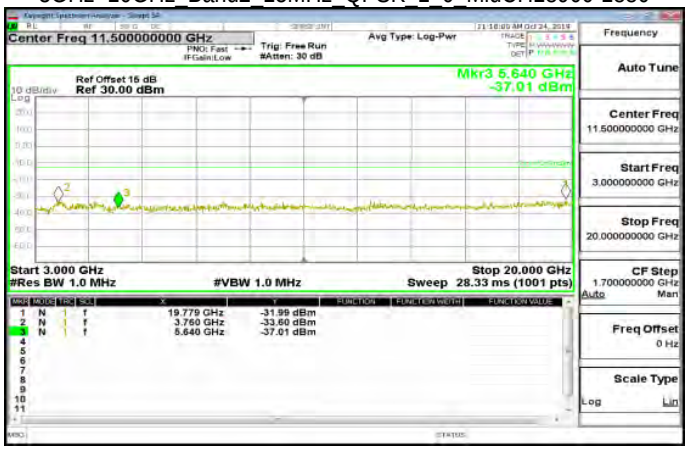
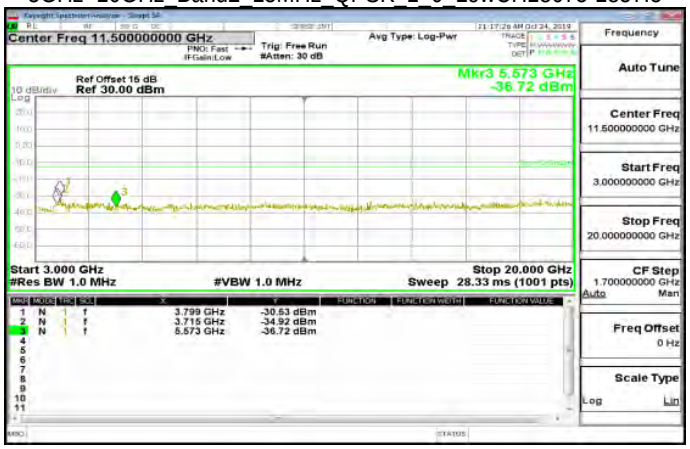
30MHz~3GHz_Band2_15MHz_QPSK_1_0_LowCH18675-1857.5



3GHz~10GHz_Band2_15MHz_QPSK_1_0_MidCH18900-1880

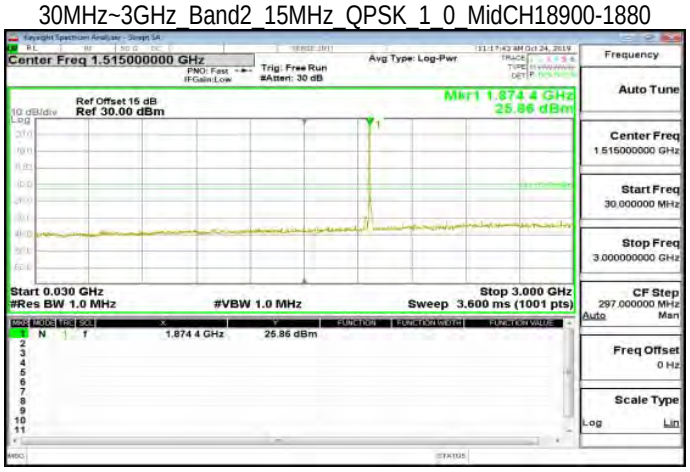


3GHz~10GHz_Band2_15MHz_QPSK_1_0_LowCH18675-1857.5

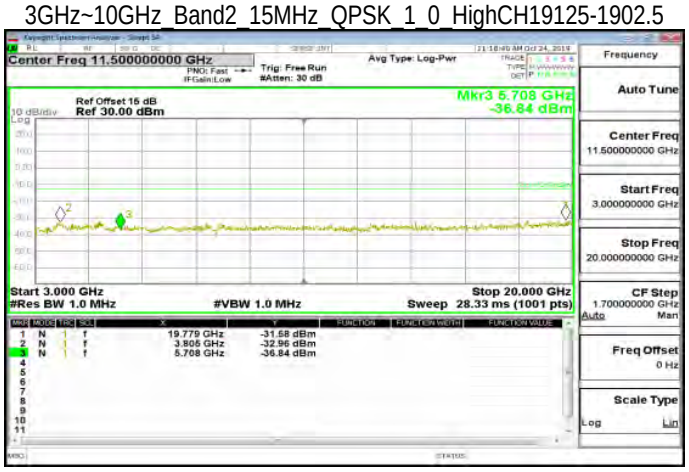


30MHz~3GHz_Band2_15MHz_QPSK_1_0_HighCH19125-1902.5

30MHz~3GHz_Band2_15MHz_QPSK_1_0_MidCH18900-1880



3GHz~10GHz_Band2_15MHz_QPSK_1_0_HighCH19125-1902.5



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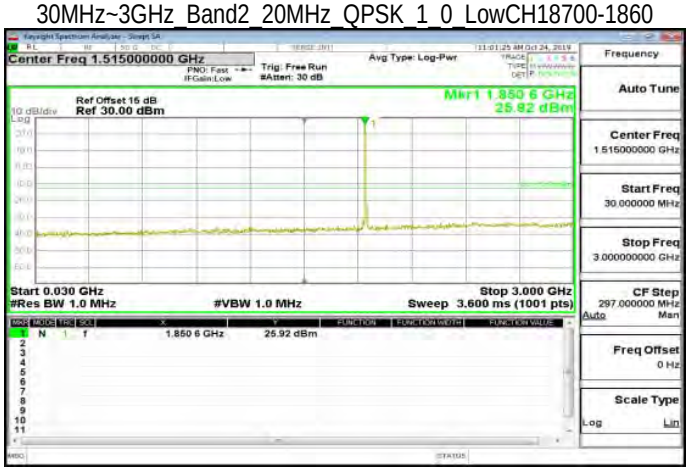
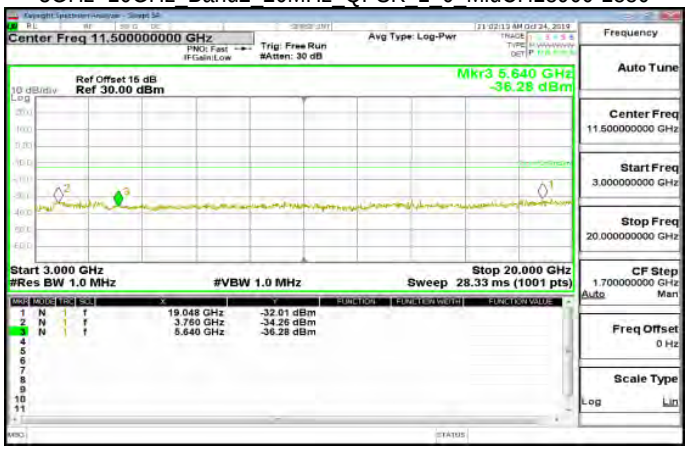
30MHz~3GHz_Band2_20MHz_QPSK_1_0_LowCH18700-1860

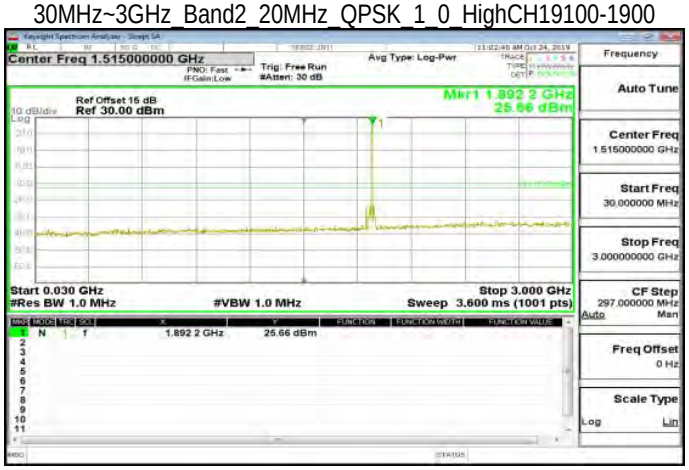


3GHz~10GHz_Band2_20MHz_QPSK_1_0_MidCH18900-1880

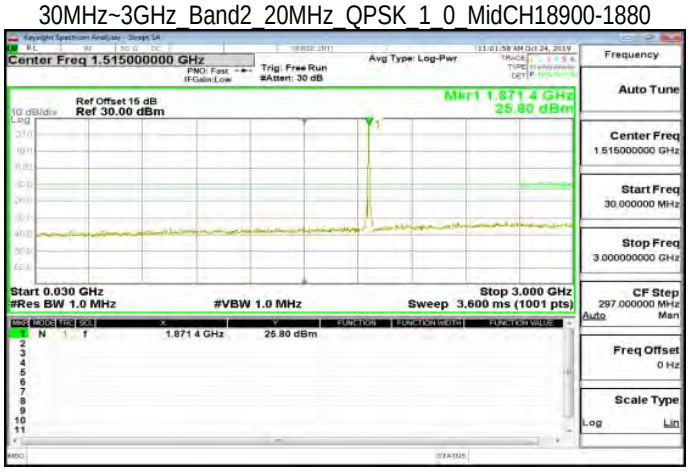


3GHz~10GHz_Band2_20MHz_QPSK_1_0_LowCH18700-1860

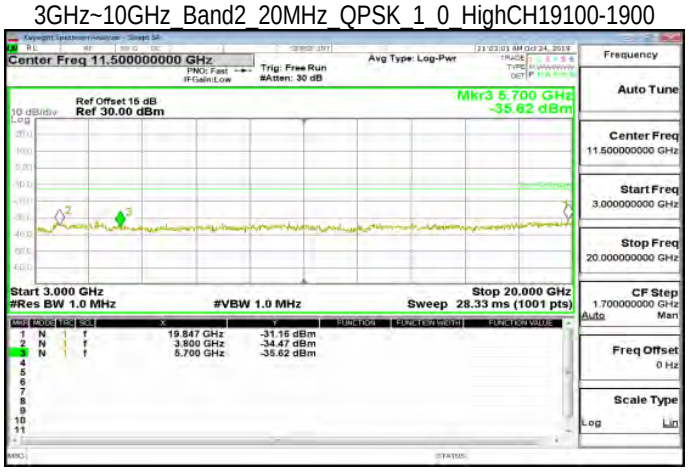
30MHz~3GHz_Band2_20MHz_QPSK_1_0_HighCH19100-1900



30MHz~3GHz_Band2_20MHz_QPSK_1_0_MidCH18900-1880



3GHz~10GHz_Band2_20MHz_QPSK_1_0_HighCH19100-1900



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