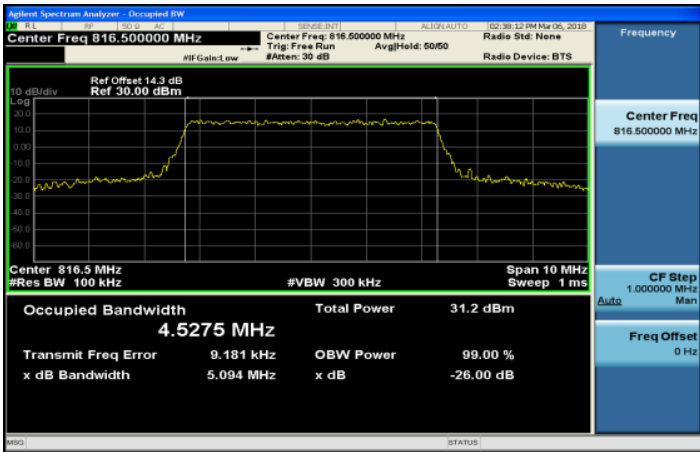
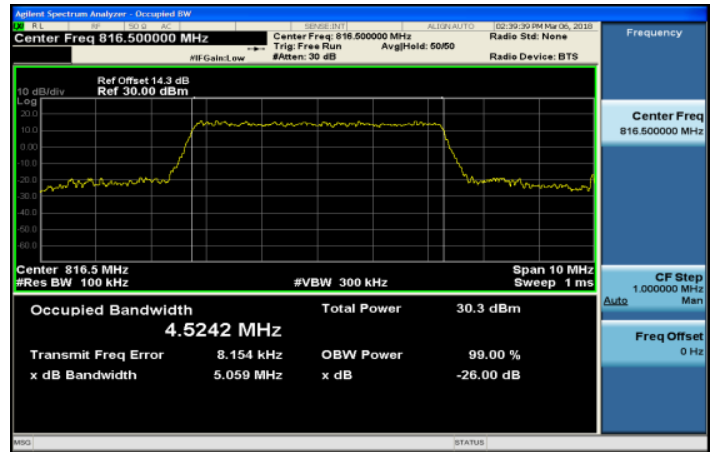


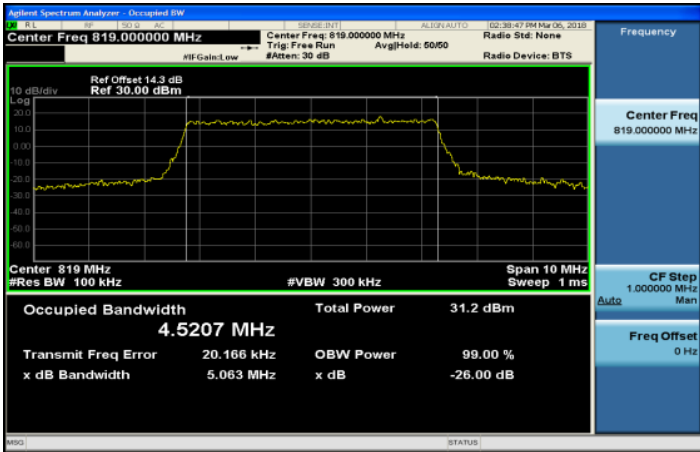
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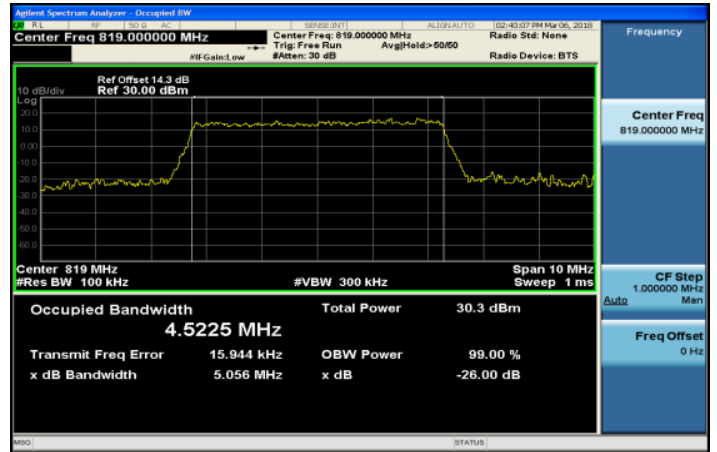
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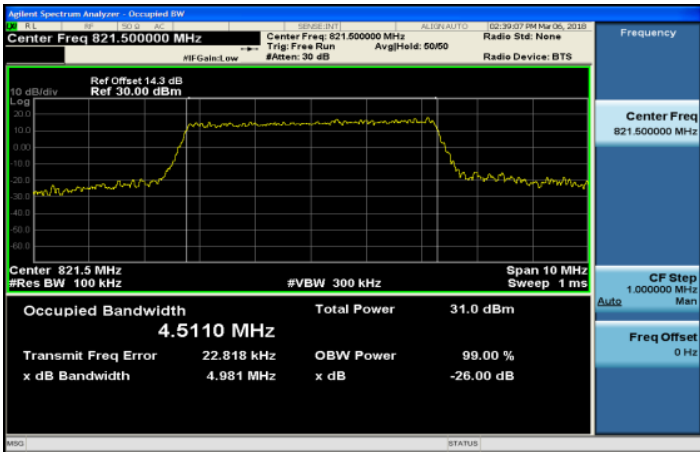
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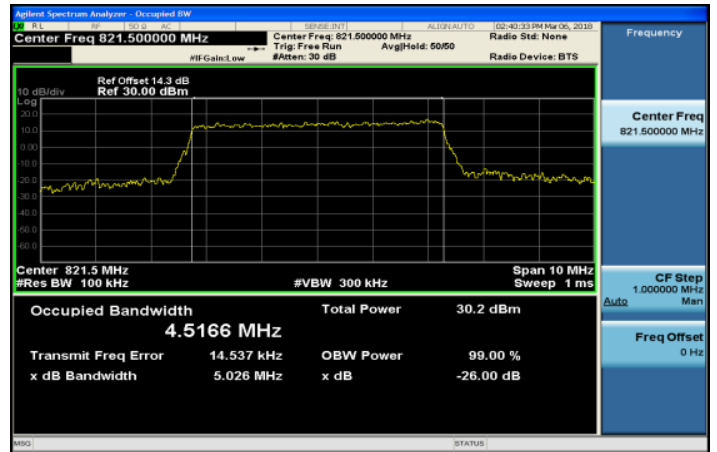
Part 90_Band26_5MHz_16QAM_25_0_MidCH26740-819



Part 90_Band26_5MHz_QPSK_25_0_HighCH26765-821.5



Part 90_Band26_5MHz_16QAM_25_0_HighCH26765-821.5



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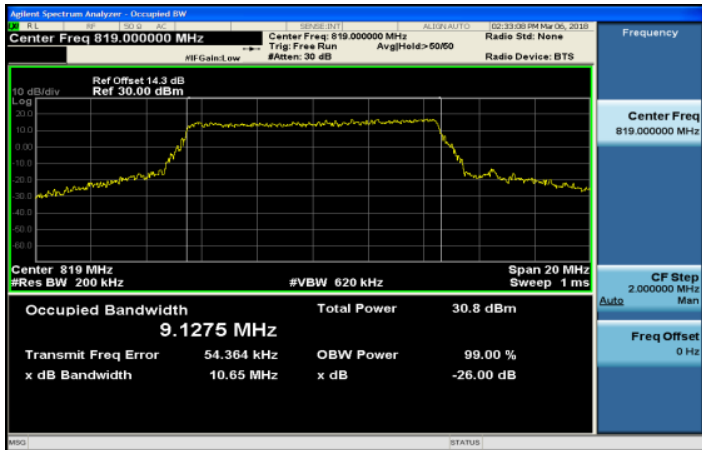
t (886-2) 2299-3279

f (886-2) 2298-0488

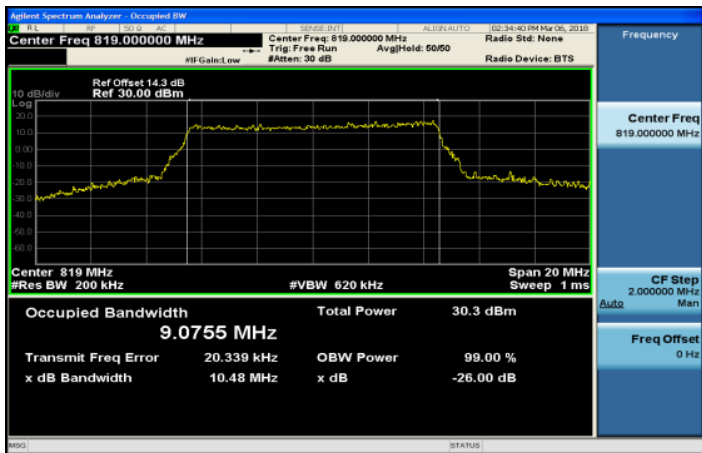
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Part 90_Band26_10MHz_QPSK_50_0_MidCH26740-819



Part 90_Band26_10MHz_16QAM_50_0_MidCH26740-819



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9. OUT OF BAND EMISSION AT ANTENNA TERMINALS

9.1. Standard Applicable

FCC §22.917(a), §24.238(a), §27.53(h), 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 $116 \text{ Log}_{10}(f/6.1)$ decibels or $50 + 10 \text{ Log}_{10}(P)$ 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 $43 + 10 \text{ Log}_{10}(P)$ 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.

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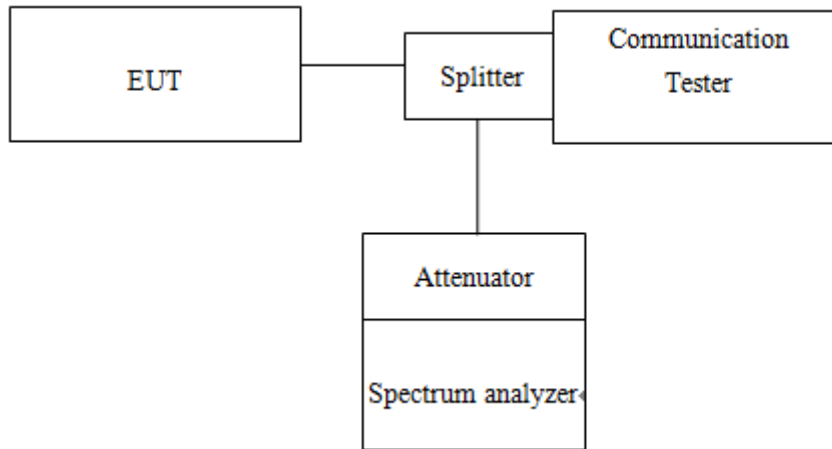
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9.2. Test SET-UP



9.3. 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 $RBW \geq 1\% EBW$.
3. Allow trace to fully stabilize
4. Repeat above procedures until all default test channel measured were complete.

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9.4. Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	Agilent	N9010A	MY54200716	2017/10/16	2018/10/15
Radio Communication Analyzer	Anritsu	MT8820C	6201465317	2018/01/17	2019/01/16
Attenuator	Mini-Circuit	BW-S10W2+	2	2018/01/02	2019/1/1
Splitter	RF-LAMBAD	RFLT2W1G18G	11-JSPF412-018	2018/01/02	2019/1/1
Coaxial Cables	N/A	WK CE Cable	N/A	2018/01/02	2019/1/1
EXA Spectrum Analyzer	Agilent	N9010A	MY54200716	2017/10/16	2018/10/15
Radio Communication Analyzer	Anritsu	MT8820C	6201465317	2018/01/17	2019/01/16
Attenuator	Mini-Circuit	BW-S10W2+	2	2018/01/02	2019/1/1
Splitter	RF-LAMBAD	RFLT2W1G18G	11-JSPF412-018	2018/01/02	2019/1/1

9.5. 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

WCDMA_B2_LowCH9262-1852.4



HSDPA_B2_HighCH9538-1907.6



WCDMA_B2_HighCH9538-1907.6



HSUPA_B2_LowCH9262-1852.4



HSDPA_B2_LowCH9262-1852.4



HSUPA_B2_HighCH9538-1907.6



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WCDMA_B4_LowCH1312-1712.4



HSDPA_B4_HighCH1513-1752.6



WCDMA_B4_HighCH1513-1752.6



HSUPA_B4_LowCH1312-1712.4



HSDPA_B4_LowCH1312-1712.4



HSUPA_B4_HighCH1513-1752.6



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WCDMA_B5_LowCH4132-826.4



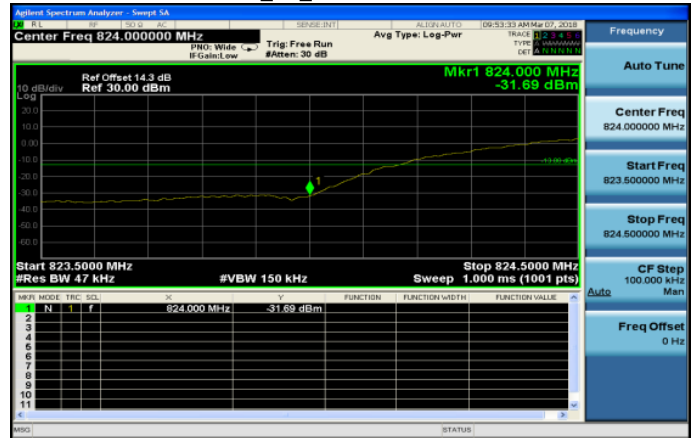
HSDPA_B5_HighCH4233-846.6



WCDMA_B5_HighCH4233-846.6



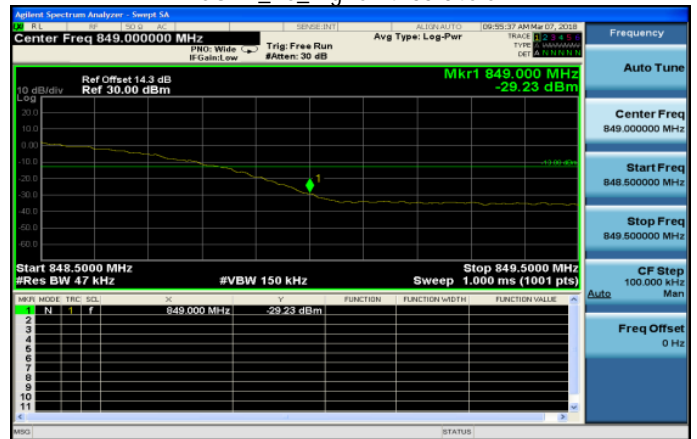
HSUPA_B5_LowCH4132-826.4



HSDPA_B5_LowCH4132-826.4



HSUPA_B5_HighCH4233-846.6



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Band2_1_4MHz_QPSK_1_0_LowCH18607-1850.7



Band2_1_4MHz_QPSK_6_0_HighCH19193-1909.3



Band2_1_4MHz_QPSK_1_5_HighCH19193-1909.3



Band2_3MHz_QPSK_1_0_LowCH18615-1851.5



Band2_1_4MHz_QPSK_6_0_LowCH18607-1850.7



Band2_3MHz_QPSK_1_14_HighCH19185-1908.5



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Band2_3MHz_QPSK_15_0_LowCH18615-1851.5



Band2_5MHz_QPSK_1_24_HighCH19175-1907.5



Band2_3MHz_QPSK_15_0_HighCH19185-1908.5



Band2_5MHz_QPSK_25_0_LowCH18625-1852.5



Band2_5MHz_QPSK_1_0_LowCH18625-1852.5



Band2_5MHz_QPSK_25_0_HighCH19175-1907.5



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Band2_10MHz_QPSK_1_0_LowCH18650-1855



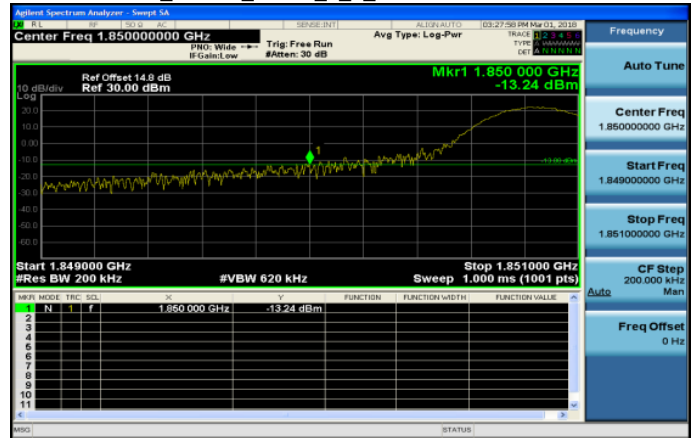
Band2_10MHz_QPSK_50_0_HighCH19150-1905



Band2_10MHz_QPSK_1_49_HighCH19150-1905



Band2_15MHz_QPSK_1_0_LowCH18675-1857.5



Band2_10MHz_QPSK_50_0_LowCH18650-1855



Band2_15MHz_QPSK_1_74_HighCH19125-1902.5



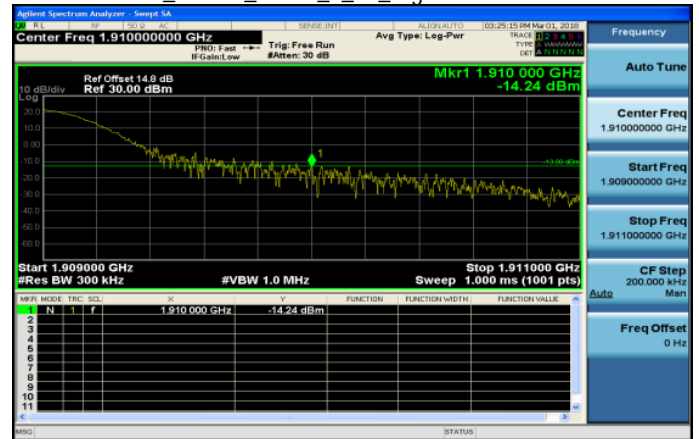
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Band2_15MHz_QPSK_75_0_LowCH18675-1857.5



Band2_20MHz_QPSK_1_99_HighCH19100-1900



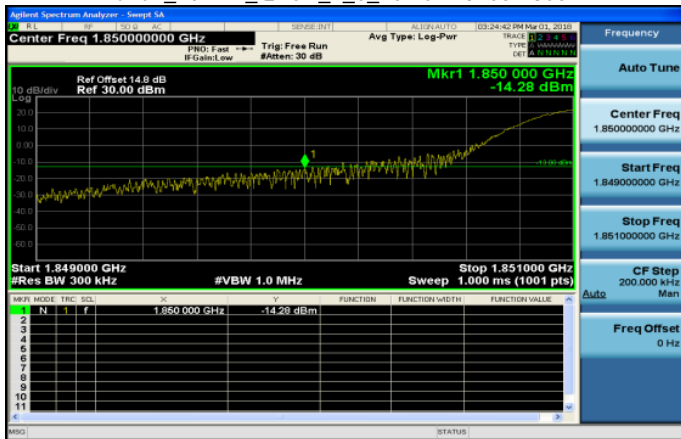
Band2_15MHz_QPSK_75_0_HighCH19125-1902.5



Band2_20MHz_QPSK_100_0_LowCH18700-1860



Band2_20MHz_QPSK_1_0_LowCH18700-1860



Band2_20MHz_QPSK_100_0_HighCH19100-1900



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Band4_1_4MHz_QPSK_1_0_LowCH19957-1710.7



Band4_1_4MHz_QPSK_6_0_HighCH20393-1754.3



Band4_1_4MHz_QPSK_1_5_HighCH20393-1754.3



Band4_3MHz_QPSK_1_0_LowCH19965-1711.5



Band4_1_4MHz_QPSK_6_0_LowCH19957-1710.7



Band4_3MHz_QPSK_1_14_HighCH20385-1753.5



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Band4_3MHz_QPSK_15_0_LowCH19965-1711.5



Band4_5MHz_QPSK_1_24_HighCH20375-1752.5



Band4_3MHz_QPSK_15_0_HighCH20385-1753.5



Band4_5MHz_QPSK_25_0_LowCH19975-1712.5



Band4_5MHz_QPSK_1_0_LowCH19975-1712.5



Band4_5MHz_QPSK_25_0_HighCH20375-1752.5



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Band4_10MHz_QPSK_1_0_LowCH20000-1715



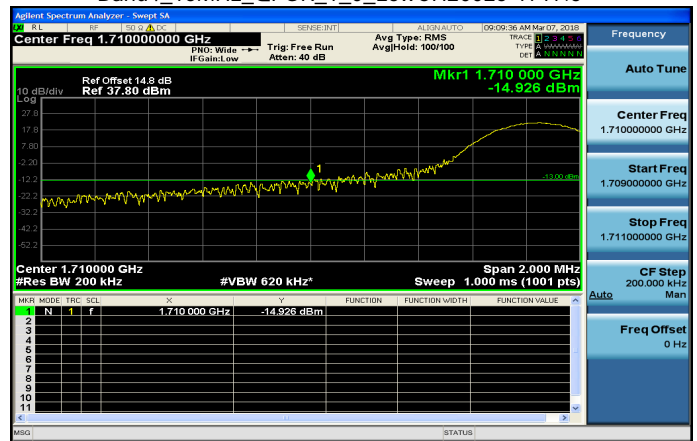
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Band4_10MHz_QPSK_1_49_HighCH20350-1750



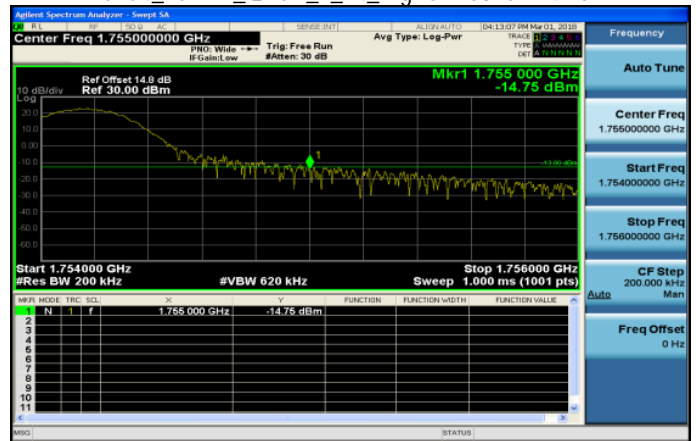
Band4_15MHz_QPSK_1_0_LowCH20025-1717.5



Band4_10MHz_QPSK_50_0_LowCH20000-1715



Band4_15MHz_QPSK_1_74_HighCH20325-1747.5



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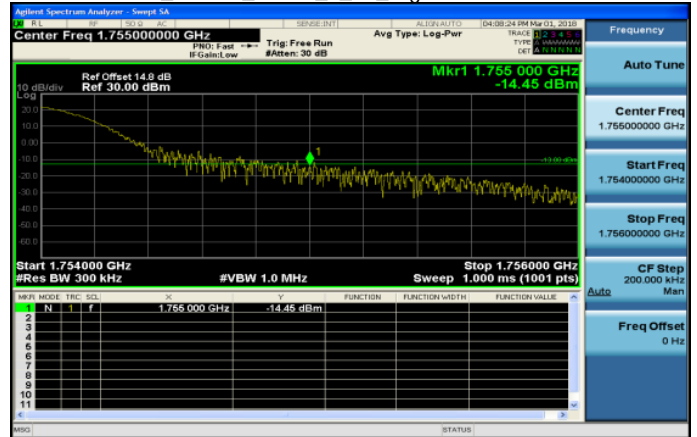
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Band4_15MHz_QPSK_75_0_LowCH20025-1717.5



Band4_20MHz_QPSK_1_99_HighCH20300-1745



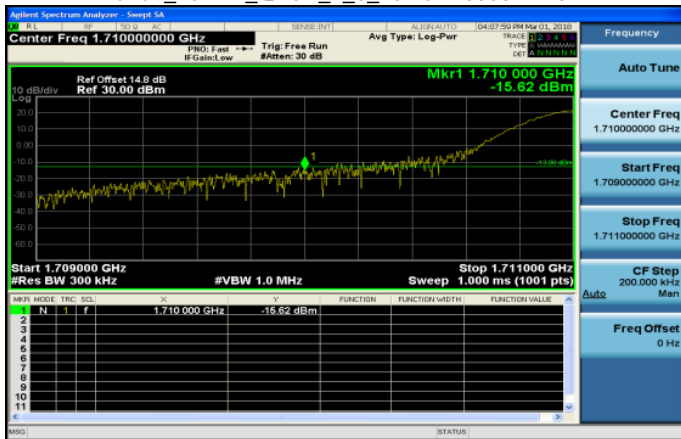
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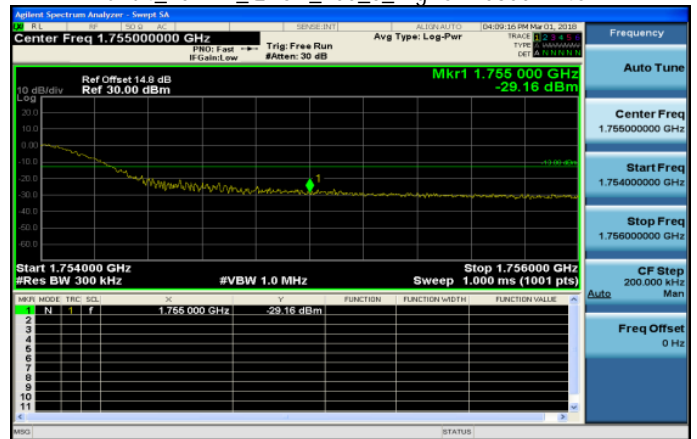
Band4_20MHz_QPSK_100_0_LowCH20050-1720



Band4_20MHz_QPSK_1_0_LowCH20050-1720



Band4_20MHz_QPSK_100_0_HighCH20300-1745



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Band5_1_4MHz_QPSK_1_0_LowCH20407-824.7



Band5_1_4MHz_QPSK_6_0_HighCH20643-848.3



Band5_1_4MHz_QPSK_1_5_HighCH20643-848.3



Band5_3MHz_QPSK_1_0_LowCH20415-825.5



Band5_1_4MHz_QPSK_6_0_LowCH20407-824.7



Band5_3MHz_QPSK_1_14_HighCH20635-847.5



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Band5_3MHz_QPSK_15_0_LowCH20415-825.5



Band5_5MHz_QPSK_1_24_HighCH20625-846.5



Band5_3MHz_QPSK_15_0_HighCH20635-847.5



Band5_5MHz_QPSK_25_0_LowCH20425-826.5



Band5_5MHz_QPSK_1_0_LowCH20425-826.5



Band5_5MHz_QPSK_25_0_HighCH20625-846.5



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Band5_10MHz_QPSK_1_0_LowCH20450-829



Band5_10MHz_QPSK_50_0_HighCH20600-844



Band5_10MHz_QPSK_1_49_HighCH20600-844



Band7_5MHz_QPSK_1_0_LowCH20775-2502.5



Band5_10MHz_QPSK_50_0_LowCH20450-829



Band7_5MHz_QPSK_1_24_HighCH21425-2567.5



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Band7_5MHz_QPSK_25_0_LowCH20775-2502.5



Band7_10MHz_QPSK_1_49_HighCH21400-2565



Band7_5MHz_QPSK_25_0_HighCH21425-2567.5



Band7_10MHz_QPSK_50_0_LowCH20800-2505



Band7_10MHz_QPSK_1_0_LowCH20800-2505



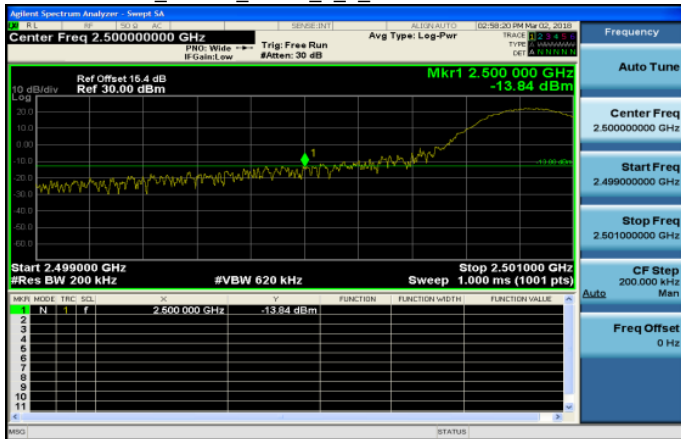
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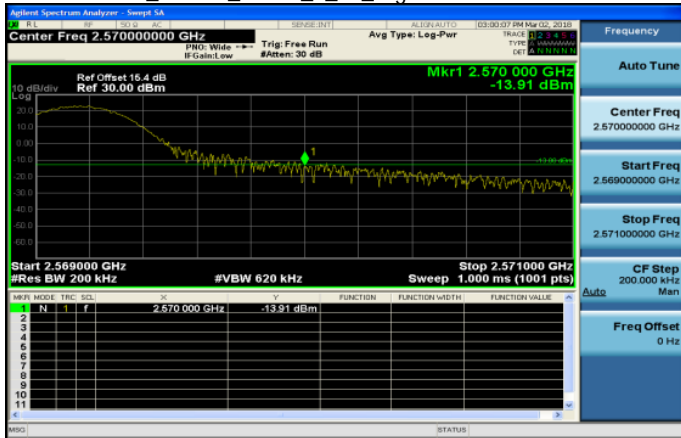
Band7_15MHz_QPSK_1_0_LowCH20825-2507.5



Band7_15MHz_QPSK_75_0_HighCH21375-2562.5



Band7_15MHz_QPSK_1_74_HighCH21375-2562.5



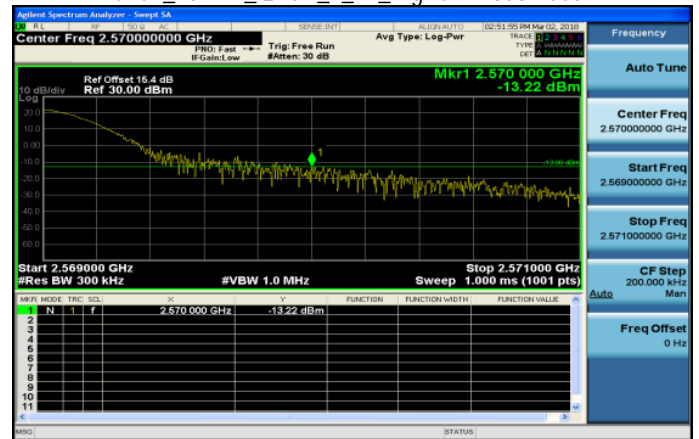
Band7_20MHz_QPSK_1_0_LowCH20850-2510



Band7_15MHz_QPSK_75_0_LowCH20825-2507.5



Band7_20MHz_QPSK_1_99_HighCH21350-2560



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