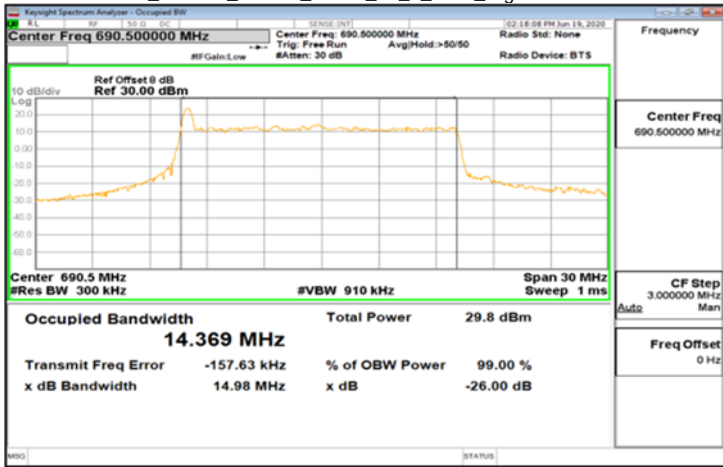
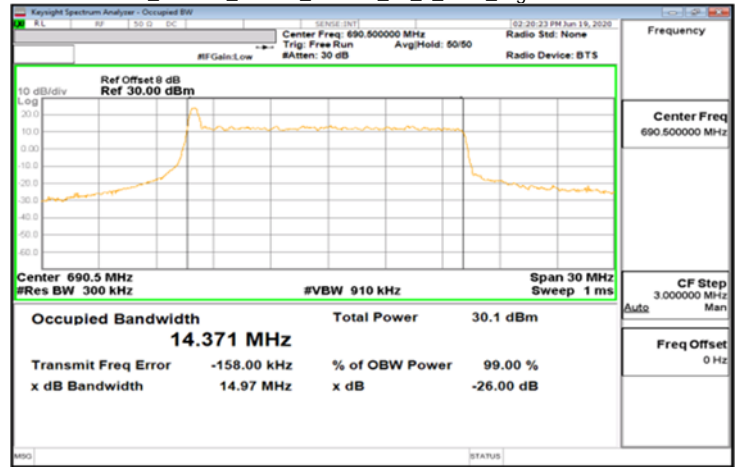


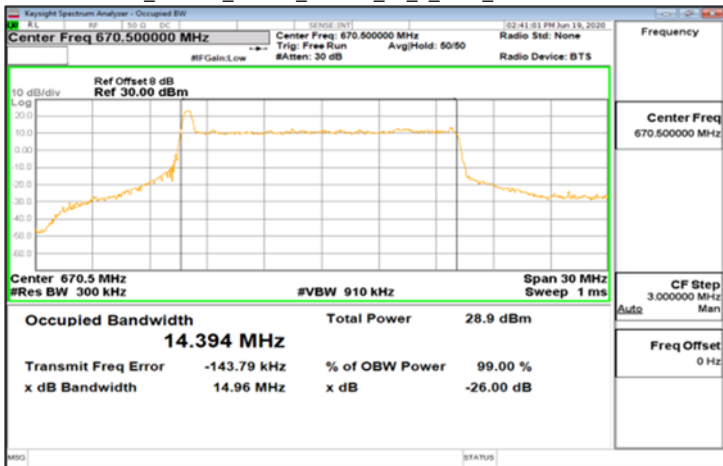
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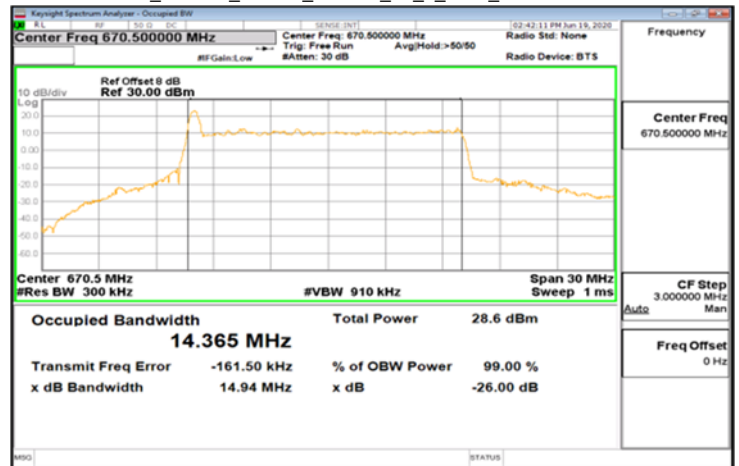
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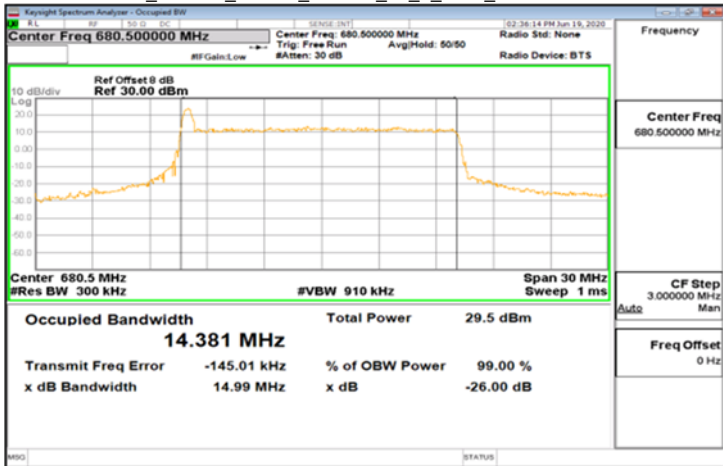
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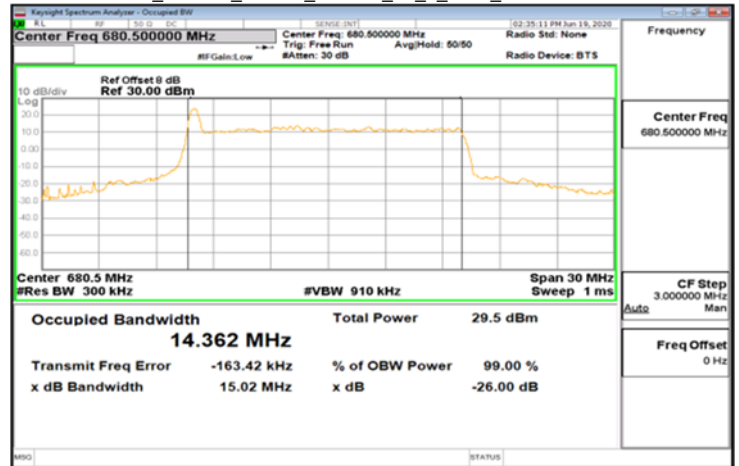
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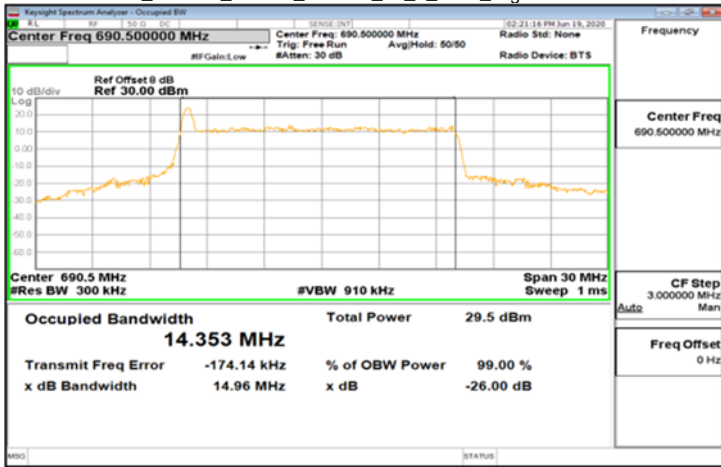


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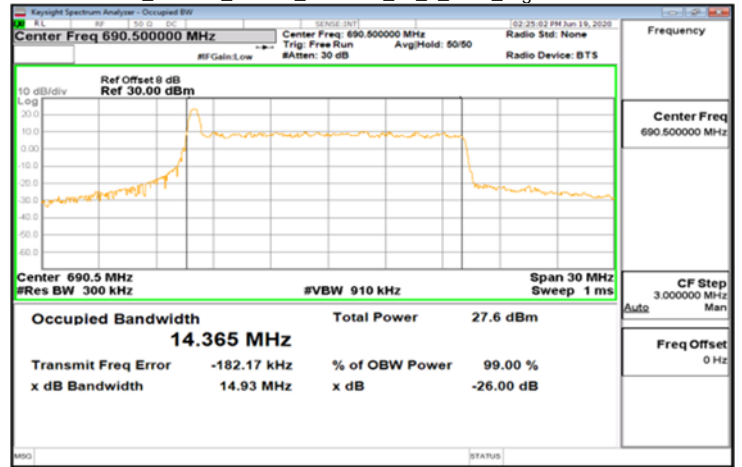
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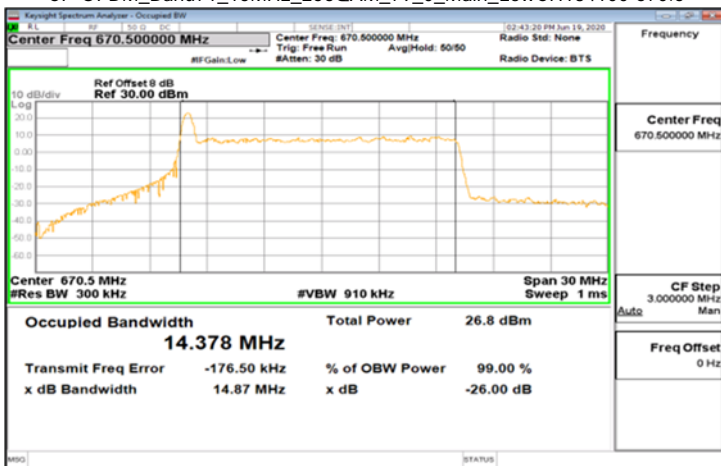
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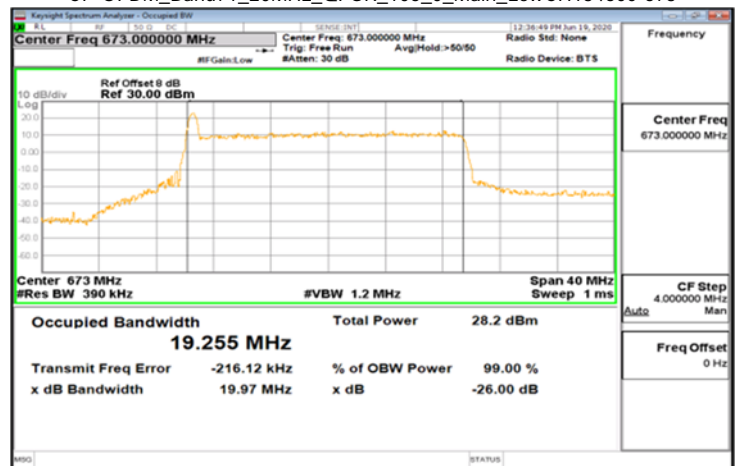
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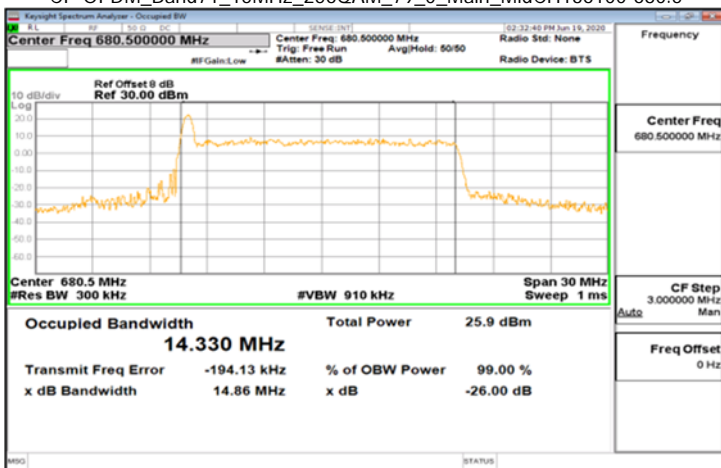
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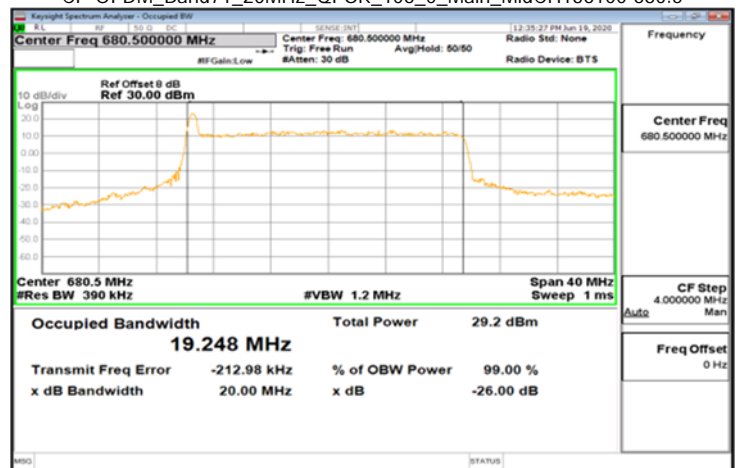
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CP-OFDM\_Band71\_20MHz\_QPSK\_106\_0\_Main\_MidCH136100-680.5

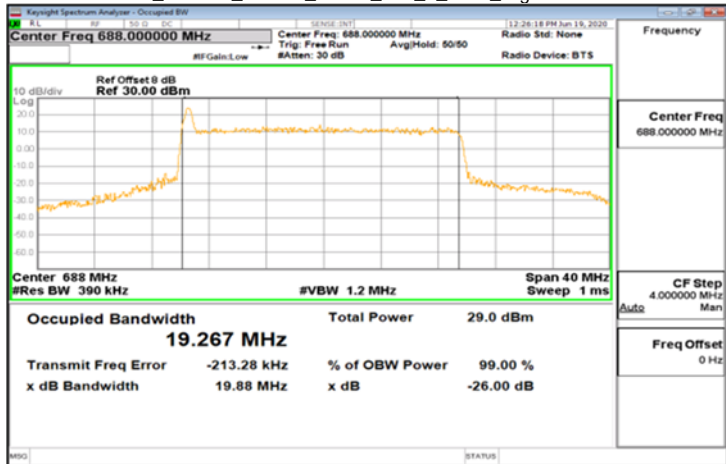


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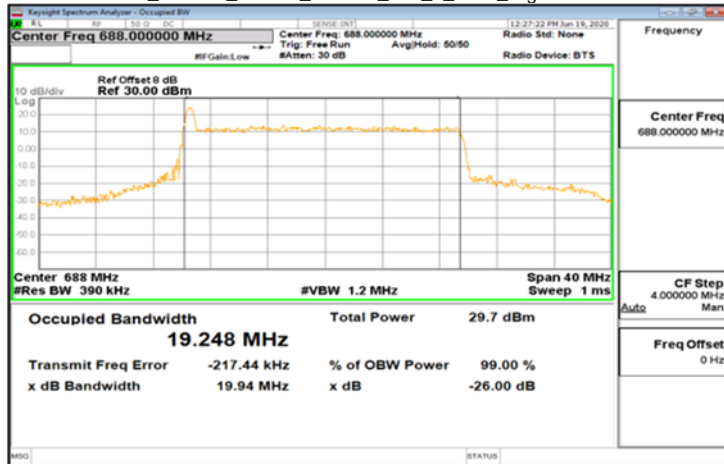
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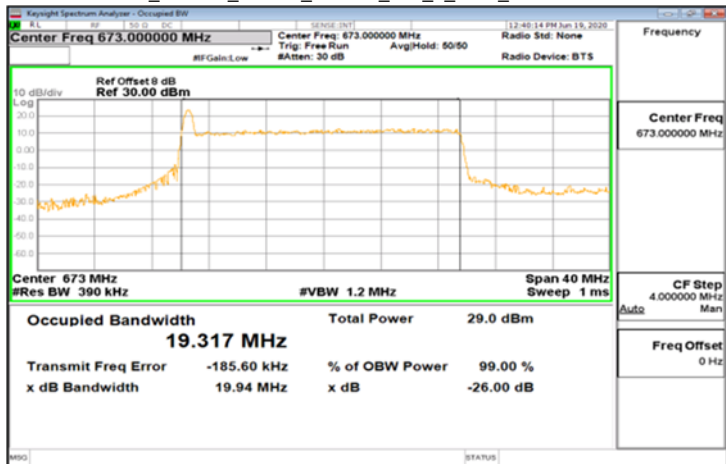
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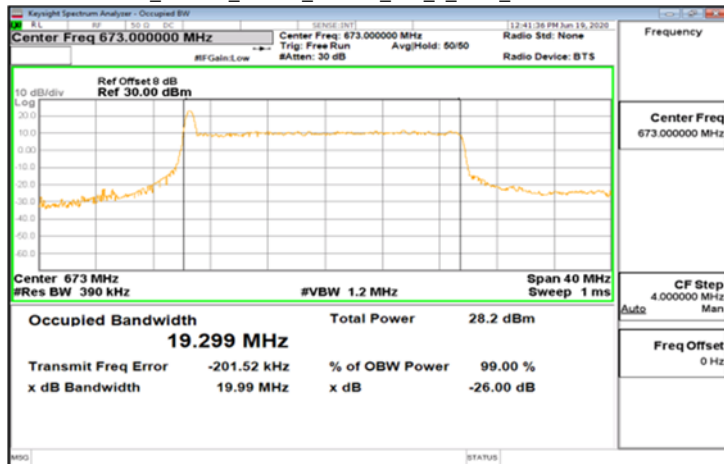
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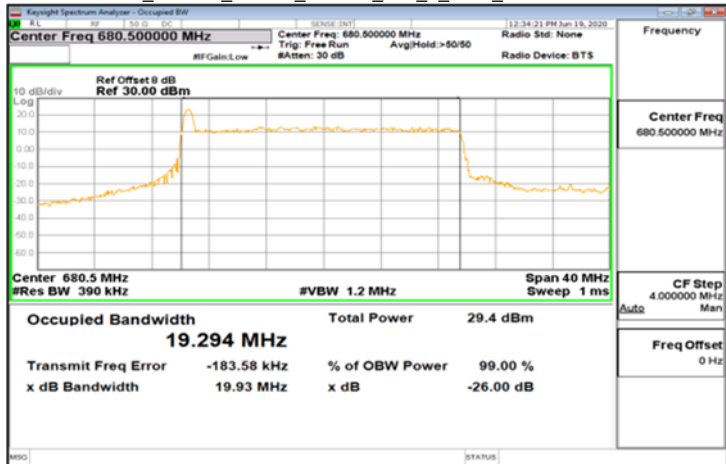
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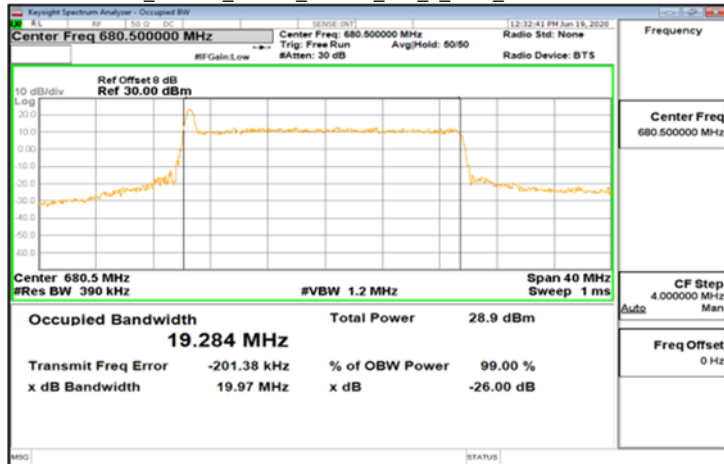
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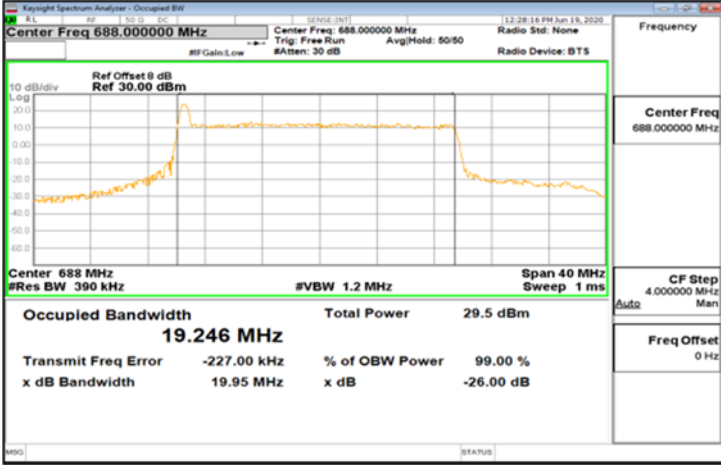


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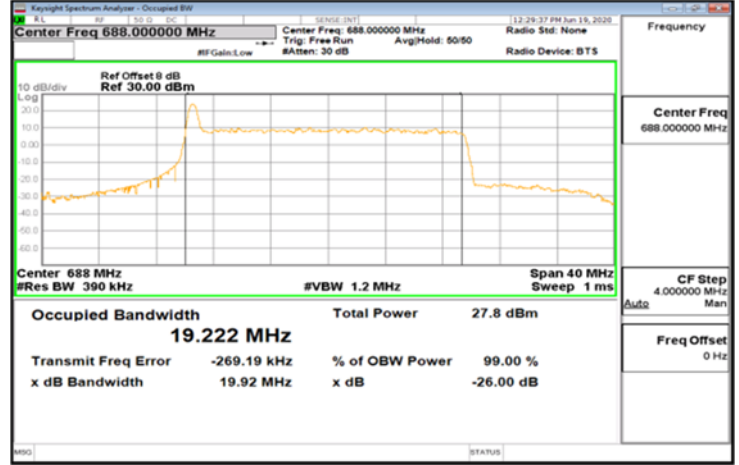
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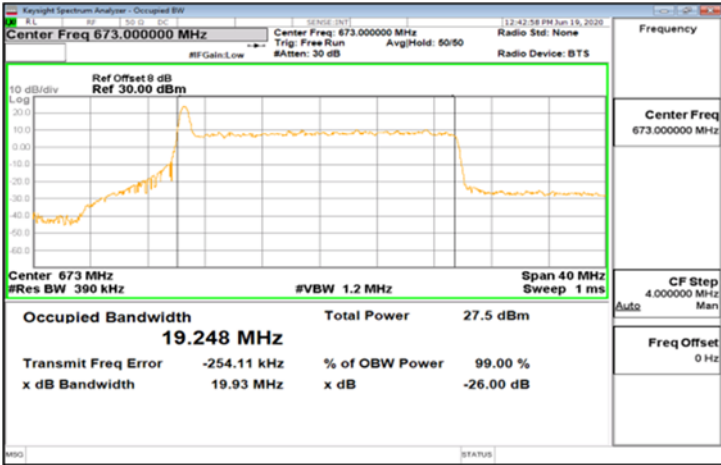
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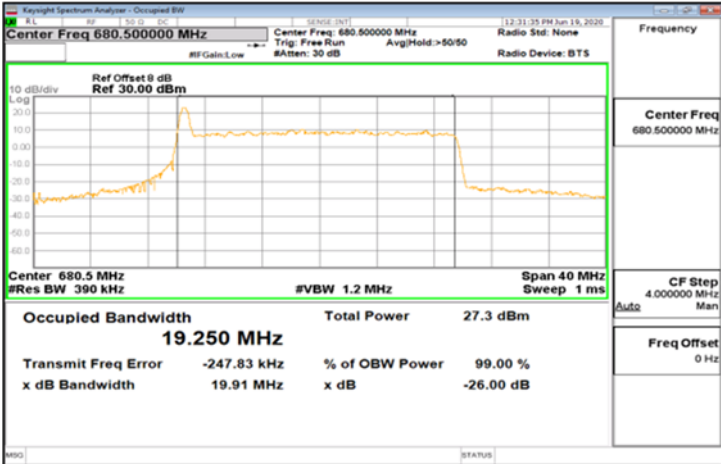
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CP-OFDM\_Band71\_20MHz\_256QAM\_106\_0\_Main\_LowCH134600-673



CP-OFDM\_Band71\_20MHz\_256QAM\_106\_0\_Main\_MidCH136100-680.5



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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)

RSS-130 §4.7, RSS-132 §5.5, RSS-133 §6.5.1, RSS-139 §6.5, RSS-130 §6.6, RSS-199 §4.5

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) (5) & FCC §27.53(g) for LTE B71

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.

#### ISED RSS-130 §4.7.1 for LTE B71

Compliance for operations in the 617-652 MHz, 663-698 MHz, 698-756 MHz and the 777-787 MHz band, the unwanted emissions in any 100 kHz bandwidth on any frequency outside the low frequency edge and the high frequency edge of each frequency block range(s), shall be attenuated below the transmitter power, P (dBW), by at least  $43 + 10 \log_{10} p$  (watts), dB. However, in the 100 kHz band immediately outside of the equipment's frequency block range, a resolution bandwidth of 30 kHz may be employed.

#### FCC §27.53(h)(3) for LTE B4, 66

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.

#### RSS-139 §6.6 for LTE B4, 66

In the first 1.0 MHz bands immediately outside and adjacent to the equipment's smallest operating frequency block, Footnote 2 which can contain the equipment's occupied bandwidth, the emission power per any 1% of the emission bandwidth shall be attenuated below the transmitter output power P (in dBW) by at least  $43 + 10 \log_{10} p$  (watts) dB.

After the first 1.0 MHz outside the equipment's smallest operating frequency block, which can contain the equipment's occupied bandwidth, the emission power in any 1 MHz bandwidth shall be attenuated below the transmitter output power P (in dBW) by at least  $43 + 10 \log_{10} p$  (watts) dB.

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**FCC §27.53(m) (4) (6) for LTE B41**

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.

**RSS-199 §4.5 for LTE B41**

In the 1 MHz band immediately outside and adjacent to the channel edge, the unwanted emission power shall be measured with a resolution bandwidth of at least 1% of the occupied bandwidth for base station and fixed subscriber equipment, and 2% for mobile subscriber equipment. Beyond the 1 MHz band, a resolution bandwidth of 1 MHz shall be used. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full required measurement bandwidth of 1 MHz, or 1% or 2% of the occupied bandwidth, as applicable.

Equipment shall comply with the following unwanted emission limits:

for base station and fixed subscriber equipment, the power of any unwanted emissions measured as above shall be attenuated (in dB) below the transmitter power, P (dBW), by at least  $43 + 10 \log_{10} p$  for mobile subscriber equipment, the power of any unwanted emissions measured as above shall be attenuated (in dB) below the transmitter power, P (dBW), by at least:

$40 + 10 \log_{10} p$  from the channel edges to 5 MHz away

$43 + 10 \log_{10} p$  between 5 MHz and X MHz from the channel edges, and

$55 + 10 \log_{10} p$  at X MHz and beyond from the channel edges

In addition, the attenuation shall not be less than  $43 + 10 \log_{10} p$  on all frequencies between 2490.5 MHz and 2496 MHz, and  $55 + 10 \log_{10} p$  at or below 2490.5 MHz.

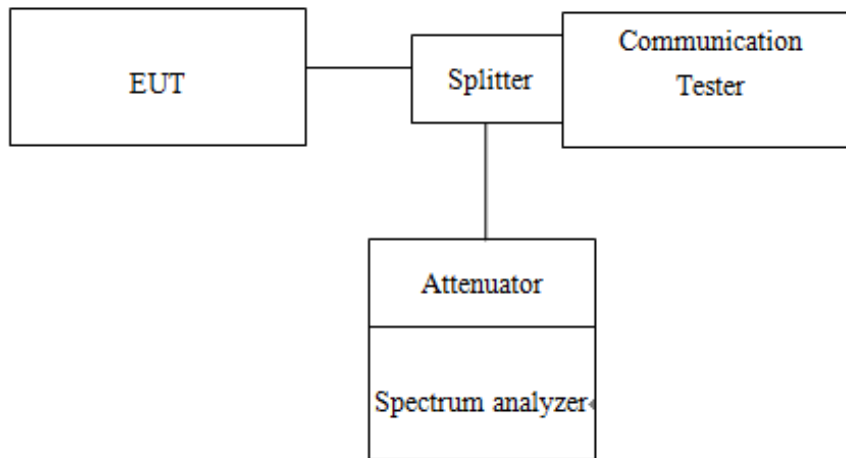
In (a) and (b), p is the transmitter power measured in watts and X is 6 MHz or the equipment occupied bandwidth, whichever is greater.

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## 8.2 Test SET-UP



## 8.3 Measurement Procedure

### 8.3.1 Conducted Emission

The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation. The resolution bandwidth of the spectrum analyzer was set at 1MHz, sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic.

1. To connect Antenna Port of EUT to Spectrum.
2. Set RBW = 1MHz & VBW = 1MHz on Spectrum.
3. Allow trace to fully stabilize
4. Repeat above procedures until all default test channel measured were complete.

### 8.3.2 Band Edge or Mask

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. The only N41 Band used RBW offset method and describe in C63.26 section 5.7.2 the correction factor is following:

$$\text{Correction factor} = 10 \log \left[ \frac{\text{reference bandwidth 1MHz}}{\text{measurement bandwidth 100KHz}} \right] = 10\text{dB}$$

4. Allow trace to fully stabilize
5. 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.
DC Power Supply	Agilent	E3640A	MY40000811	12/23/2019	12/22/2020
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY57120290	02/20/2020	02/19/2021
UXM 5G	KEYSIGHT	E7515B	MY59321561	12/16/2019	12/15/2020
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2020	01/01/2021
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2020	01/01/2021
Splitter	RF-LAMBDA	RFLT2W1G18G	11-JSPF412-018	01/02/2020	01/01/2021

#### 8.5 Measurement Result:

Refer to next pages.

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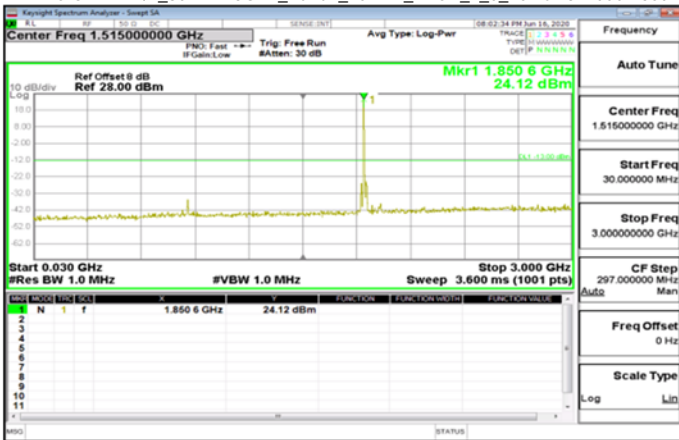
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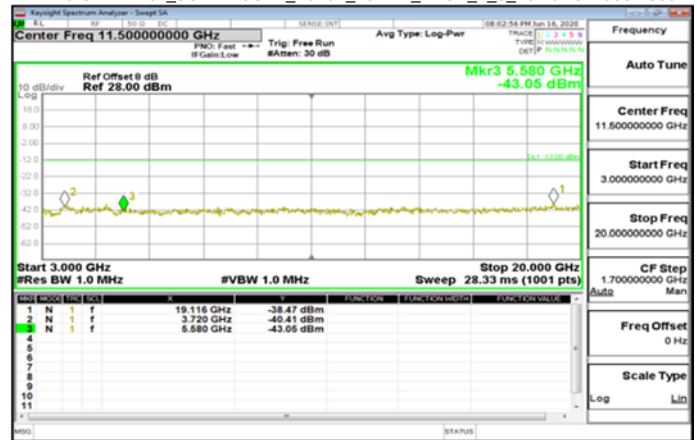


Out of Band Emission

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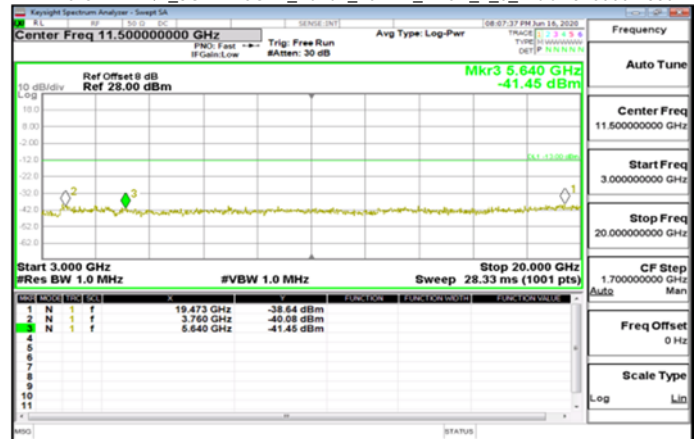
DFT-s-OFDM Pi/2\_3GHz-26GHz\_Band2\_20MHz\_BPSK\_1\_0\_LowCH372000-1860



DFT-s-OFDM Pi/2\_30MHz-3GHz\_Band2\_20MHz\_BPSK\_1\_0\_MidCH376000-1880



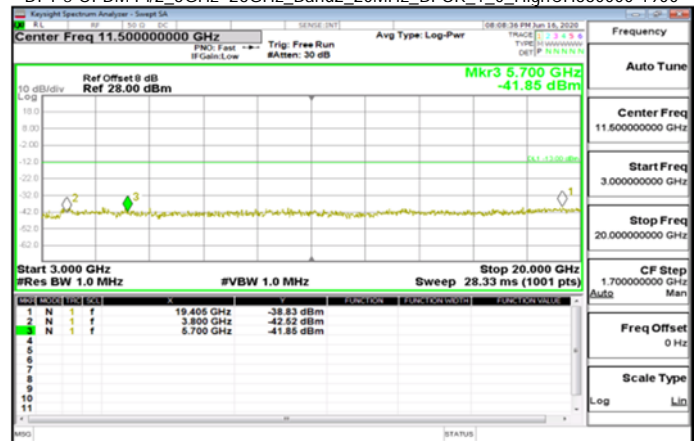
DFT-s-OFDM Pi/2\_3GHz-26GHz\_Band2\_20MHz\_BPSK\_1\_0\_MidCH376000-1880



DFT-s-OFDM Pi/2\_30MHz-3GHz\_Band2\_20MHz\_BPSK\_1\_0\_HighCH380000-1900



DFT-s-OFDM Pi/2\_3GHz-26GHz\_Band2\_20MHz\_BPSK\_1\_0\_HighCH380000-1900

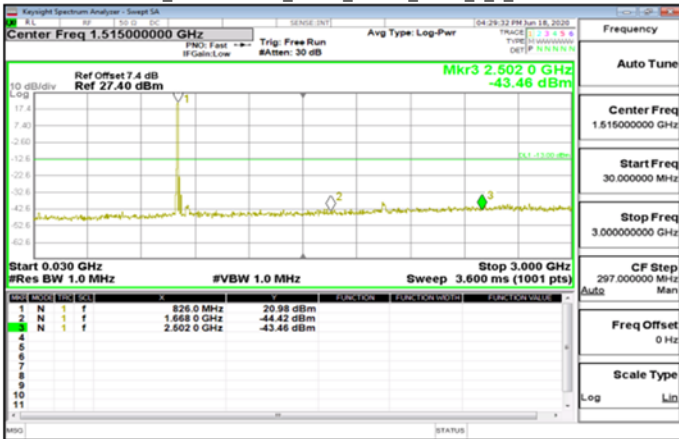


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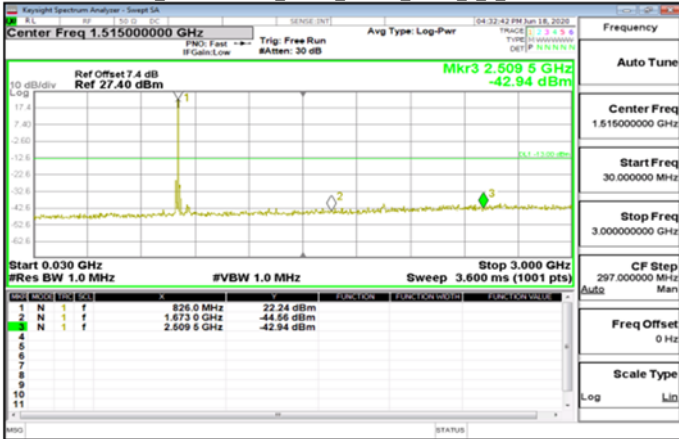
DFT-s-OFDM Pi/2\_30MHz-3GHz\_Band5\_20MHz\_BPSK\_1\_0\_LowCH166800-834



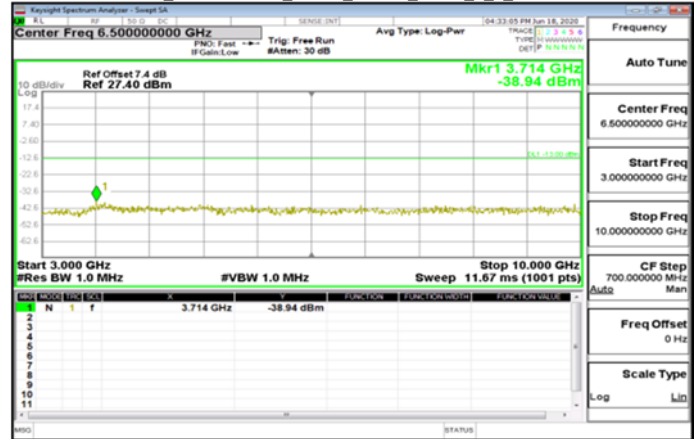
DFT-s-OFDM Pi/2\_3GHz-26GHz\_Band5\_20MHz\_BPSK\_1\_0\_LowCH166800-834



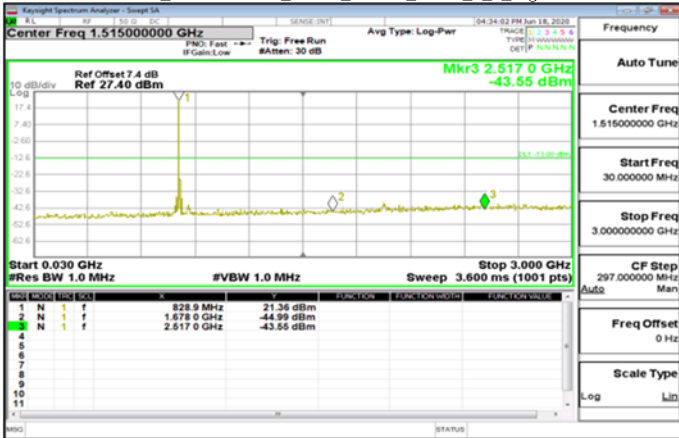
DFT-s-OFDM Pi/2\_30MHz-3GHz\_Band5\_20MHz\_BPSK\_1\_0\_Mid CH167300-836.5



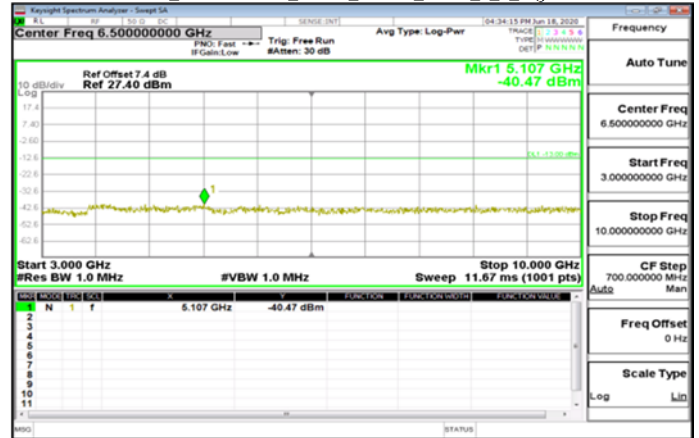
DFT-s-OFDM Pi/2\_3GHz-26GHz\_Band5\_20MHz\_BPSK\_1\_0\_Mid CH167300-836.5



DFT-s-OFDM Pi/2\_30MHz-3GHz\_Band5\_20MHz\_BPSK\_1\_0\_HighCH167800-839



DFT-s-OFDM Pi/2\_3GHz-26GHz\_Band5\_20MHz\_BPSK\_1\_0\_HighCH167800-839

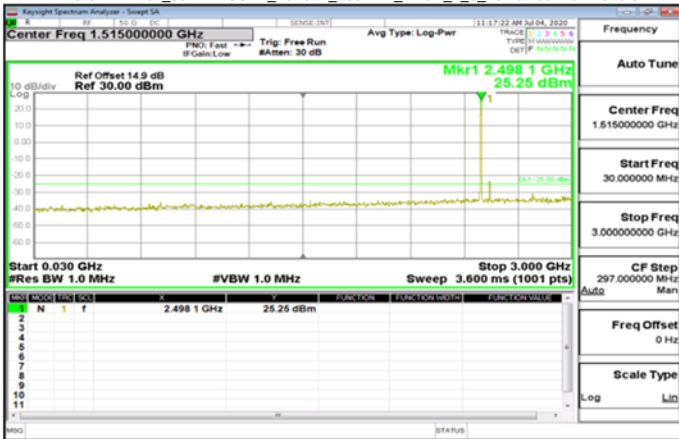


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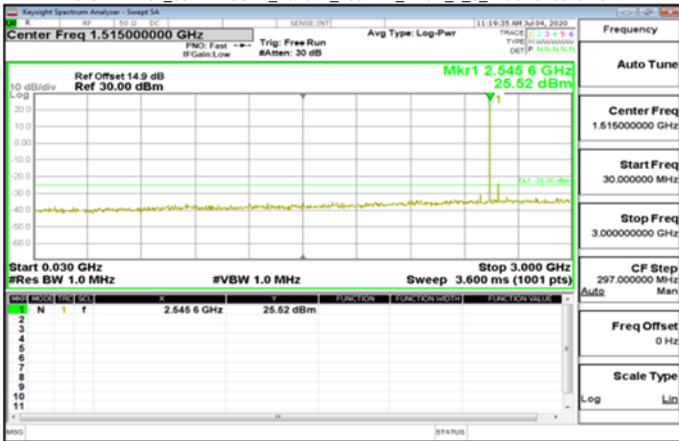
DFT-s-OFDM Pi/2\_30MHz-3GHz\_Band41\_100MHz\_BPSK\_1\_0\_LowCH509202-2546.01



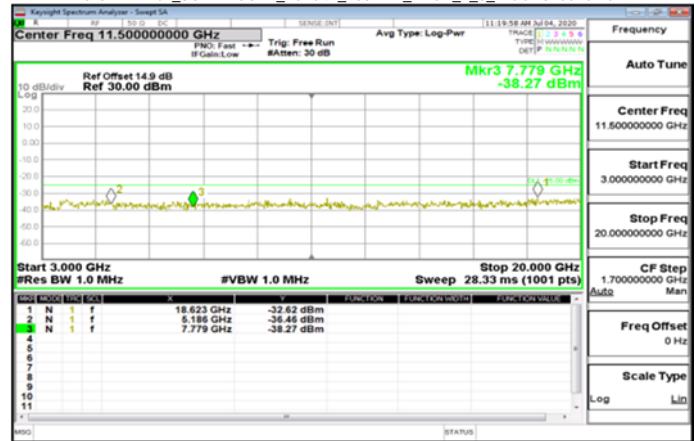
DFT-s-OFDM Pi/2\_3GHz-26GHz\_Band41\_100MHz\_BPSK\_1\_0\_LowCH509202-2546.01



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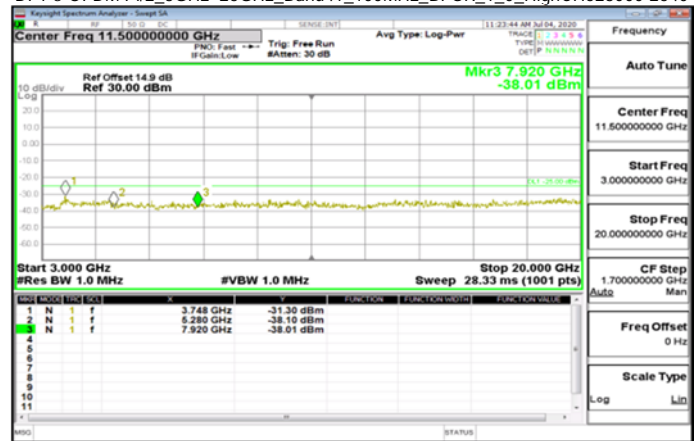
DFT-s-OFDM Pi/2\_3GHz-26GHz\_Band41\_100MHz\_BPSK\_1\_0\_MidCH518598-2592.99



DFT-s-OFDM Pi/2\_30MHz-3GHz\_Band41\_100MHz\_BPSK\_1\_0\_HighCH528000-2640



DFT-s-OFDM Pi/2\_3GHz-26GHz\_Band41\_100MHz\_BPSK\_1\_0\_HighCH528000-2640

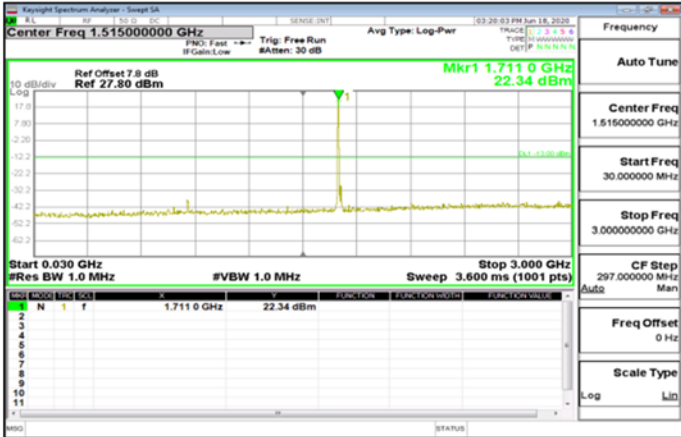


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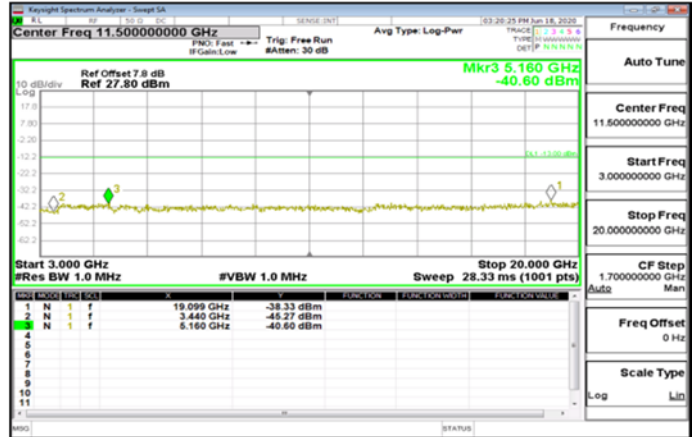
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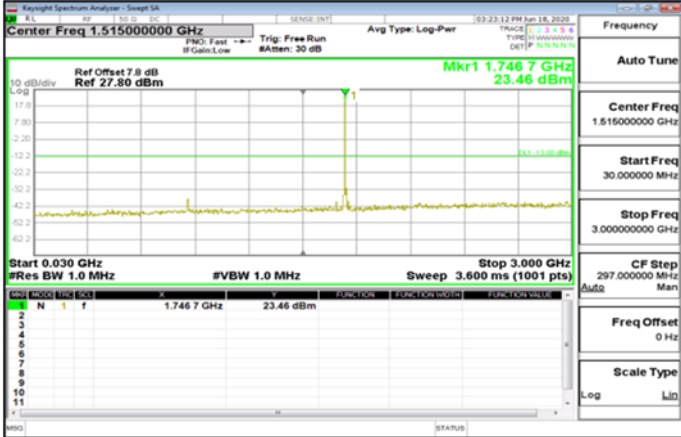
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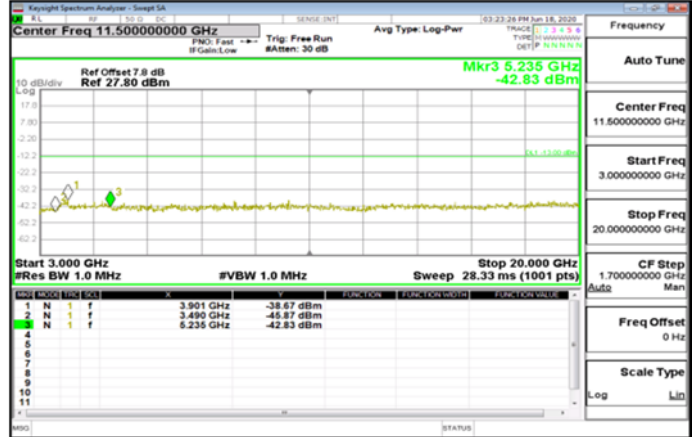
DFT-s-OFDM Pi/2\_3GHz-26GHz\_Band66\_20MHz\_BPSK\_1\_0\_LowCH344000-1720



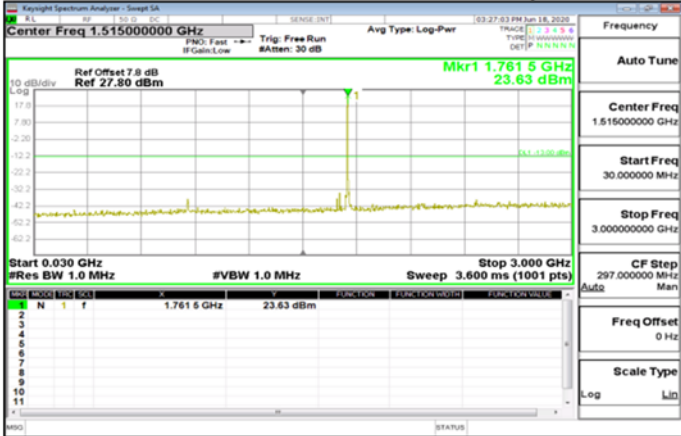
DFT-s-OFDM Pi/2\_30MHz-3GHz\_Band66\_20MHz\_BPSK\_1\_0\_MidCH349000-1745



DFT-s-OFDM Pi/2\_3GHz-26GHz\_Band66\_20MHz\_BPSK\_1\_0\_MidCH349000-1745



DFT-s-OFDM Pi/2\_30MHz-3GHz\_Band66\_20MHz\_BPSK\_1\_0\_HighCH354000-1770



DFT-s-OFDM Pi/2\_3GHz-26GHz\_Band66\_20MHz\_BPSK\_1\_0\_HighCH354000-1770

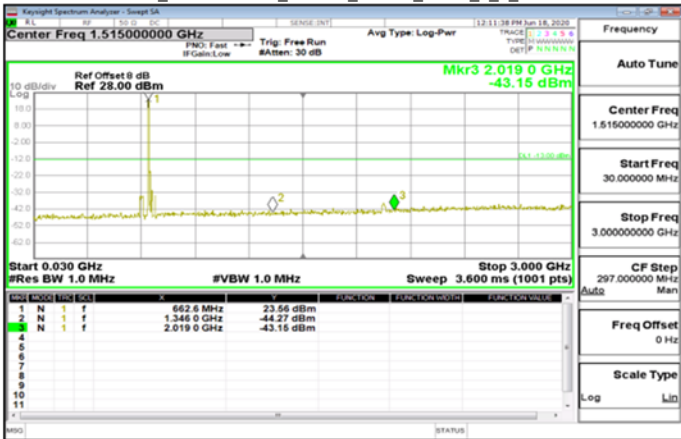


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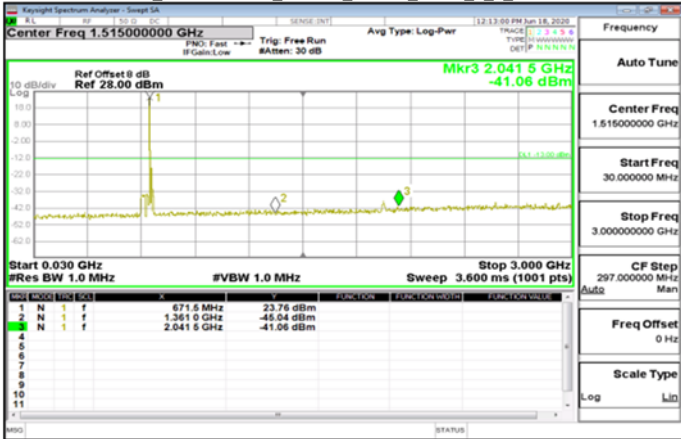
DFT-s-OFDM Pi/2\_30MHz-3GHz\_Band71\_20MHz\_BPSK\_1\_0\_LowCH134600-673



DFT-s-OFDM Pi/2\_3GHz-26GHz\_Band71\_20MHz\_BPSK\_1\_0\_LowCH134600-673



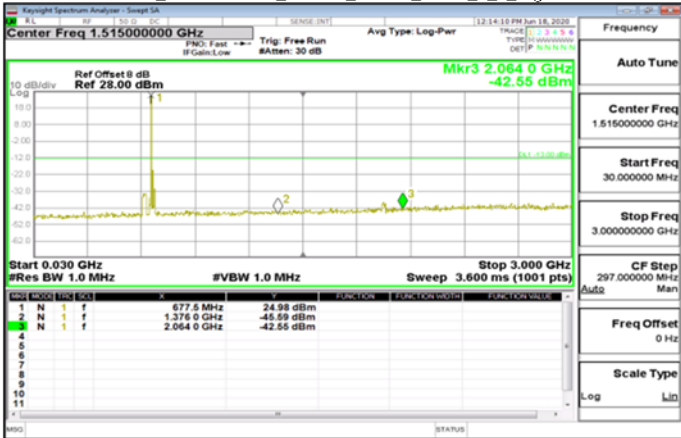
DFT-s-OFDM Pi/2\_30MHz-3GHz\_Band71\_20MHz\_BPSK\_1\_0\_MidCH136100-680.5



DFT-s-OFDM Pi/2\_3GHz-26GHz\_Band71\_20MHz\_BPSK\_1\_0\_MidCH136100-680.5



DFT-s-OFDM Pi/2\_30MHz-3GHz\_Band71\_20MHz\_BPSK\_1\_0\_HighCH137600-688



DFT-s-OFDM Pi/2\_3GHz-26GHz\_Band71\_20MHz\_BPSK\_1\_0\_HighCH137600-688



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Band Edge

DFT-s-OFDM Pi/2\_Band2\_5MHz\_BPSK\_1\_0\_LowCH370500-1852.5



DFT-s-OFDM Pi/2\_Band2\_5MHz\_BPSK\_25\_0\_HighCH381500-1907.5



DFT-s-OFDM Pi/2\_Band2\_5MHz\_BPSK\_1\_24\_HighCH381500-1907.5



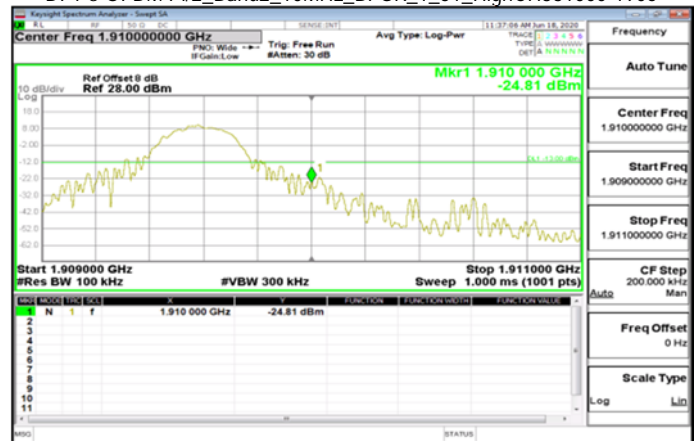
DFT-s-OFDM Pi/2\_Band2\_10MHz\_BPSK\_1\_0\_LowCH371000-1855



DFT-s-OFDM Pi/2\_Band2\_5MHz\_BPSK\_25\_0\_LowCH370500-1852.5



DFT-s-OFDM Pi/2\_Band2\_10MHz\_BPSK\_1\_51\_HighCH381000-1905



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