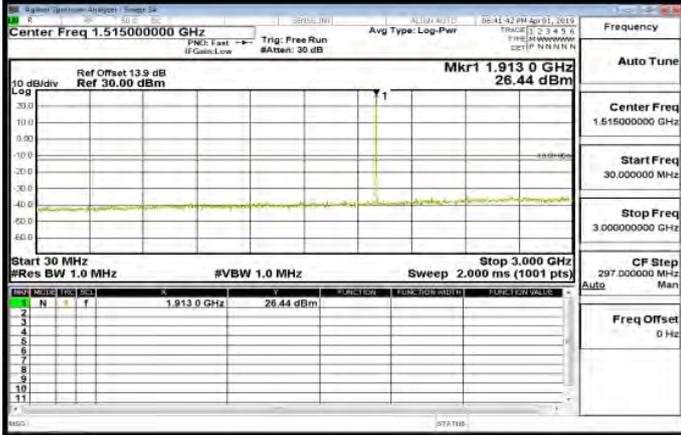
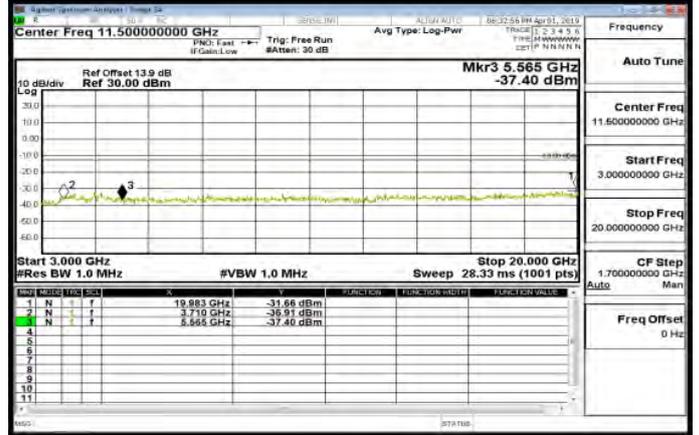


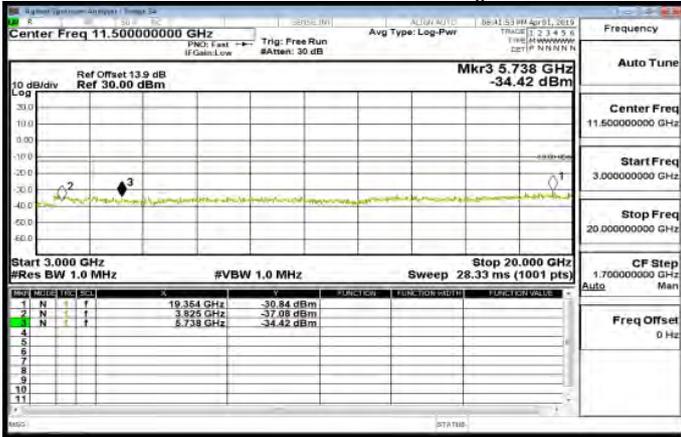
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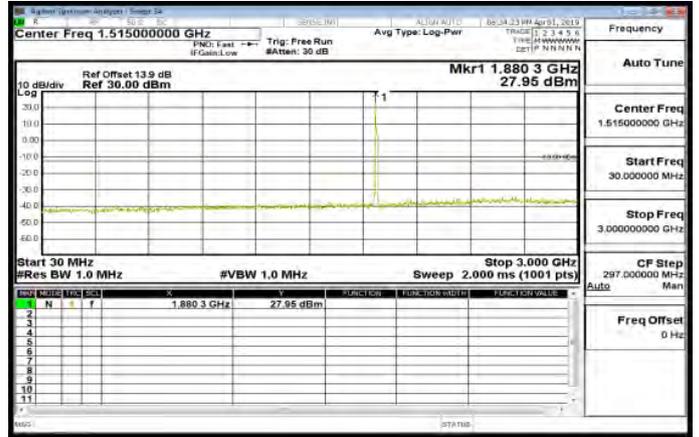
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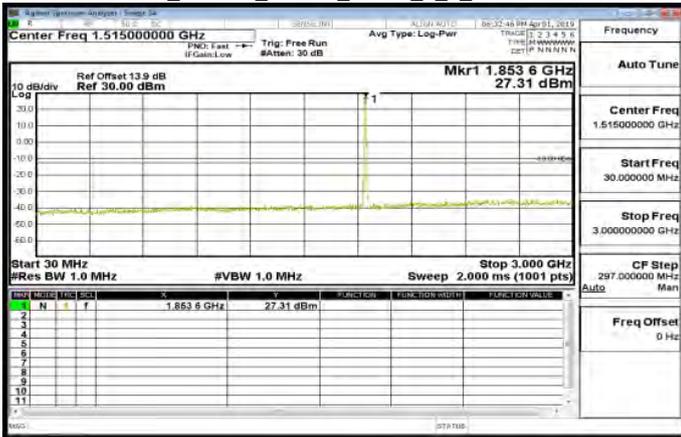
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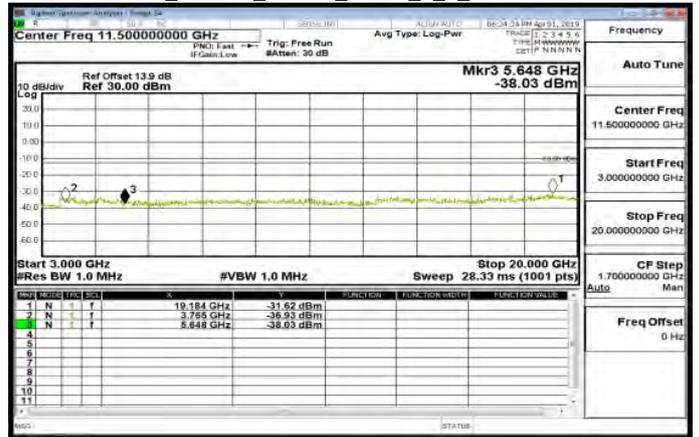
30MHz-3GHz_Band25_10MHz_QPSK_1_0_MidCH26365-1882.5



30MHz-3GHz_Band25_10MHz_QPSK_1_0_LowCH26090-1855



3GHz-10GHz_Band25_10MHz_QPSK_1_0_MidCH26365-1882.5

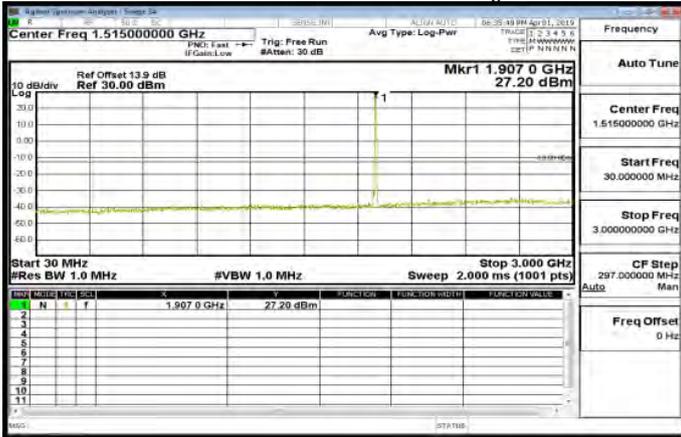


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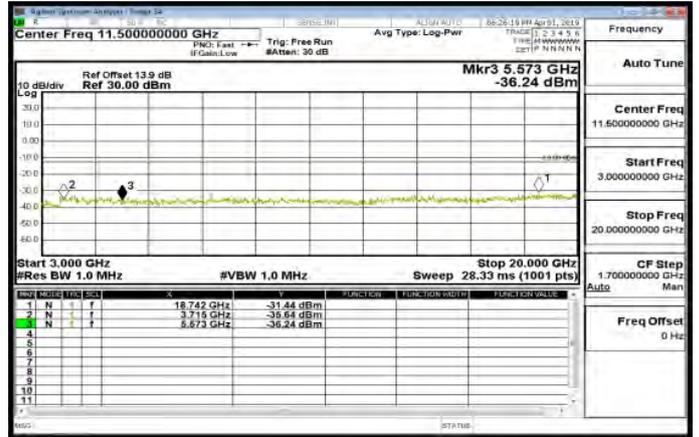
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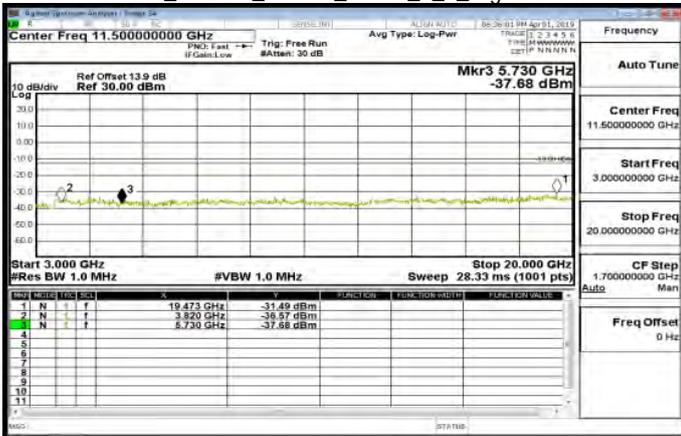
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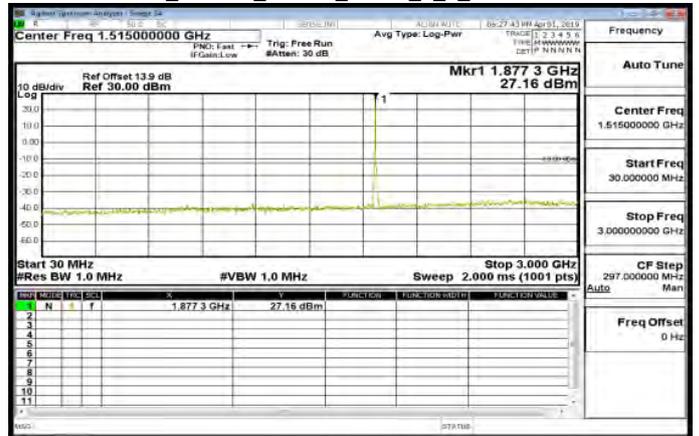
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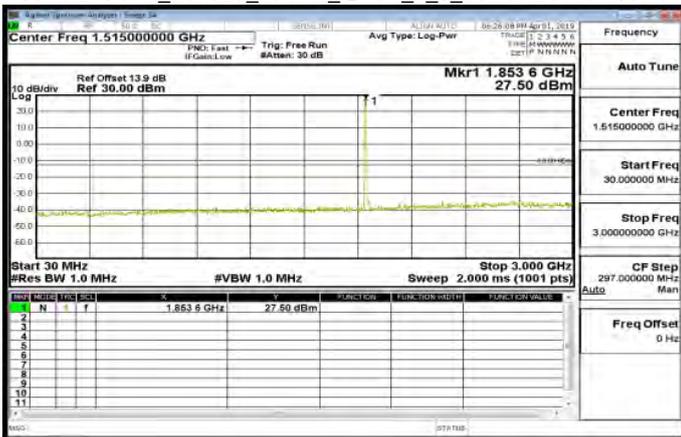
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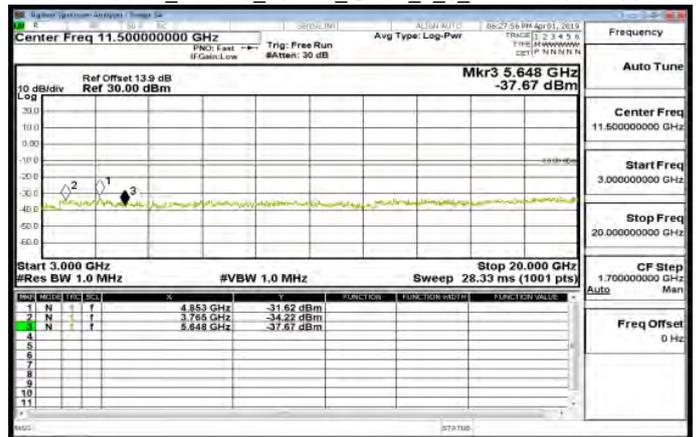
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30MHz~3GHz_Band25_15MHz_QPSK_1_0_LowCH26115-1857.5



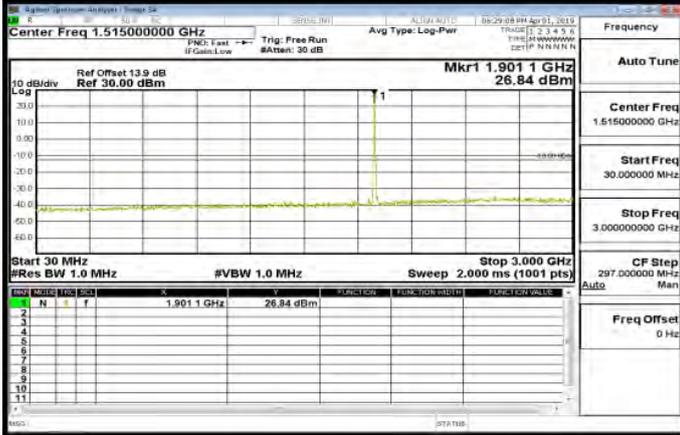
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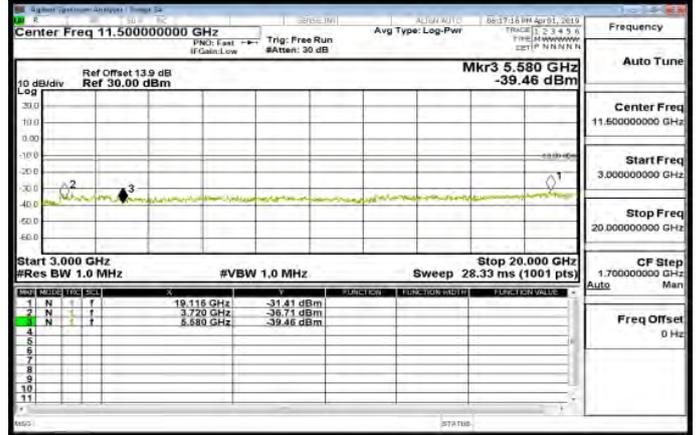
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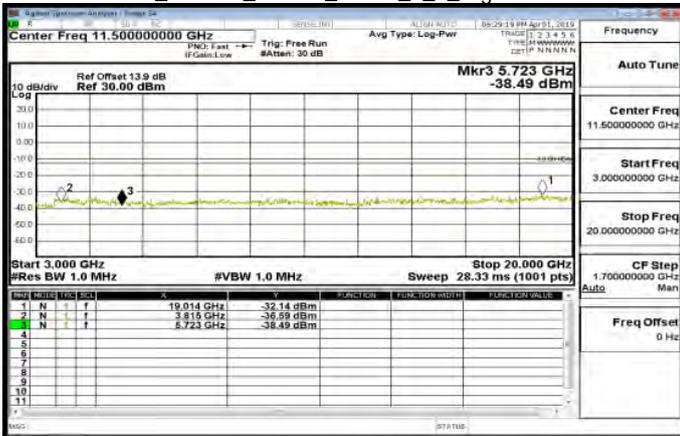
30MHz-3GHz_Band25_15MHz_QPSK_1_0_HighCH26615-1907.5



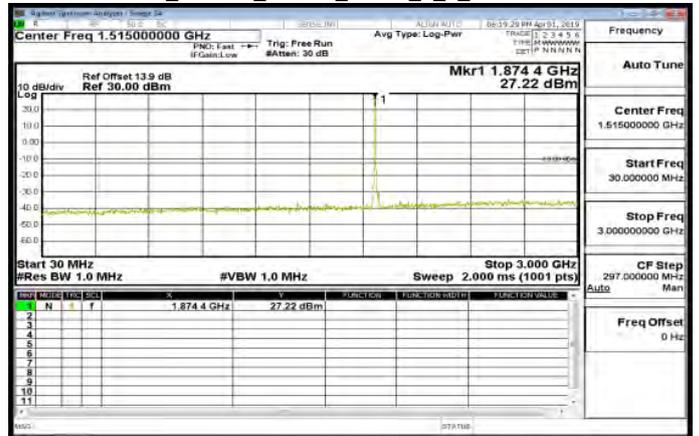
3GHz-10GHz_Band25_20MHz_QPSK_1_0_LowCH26140-1860



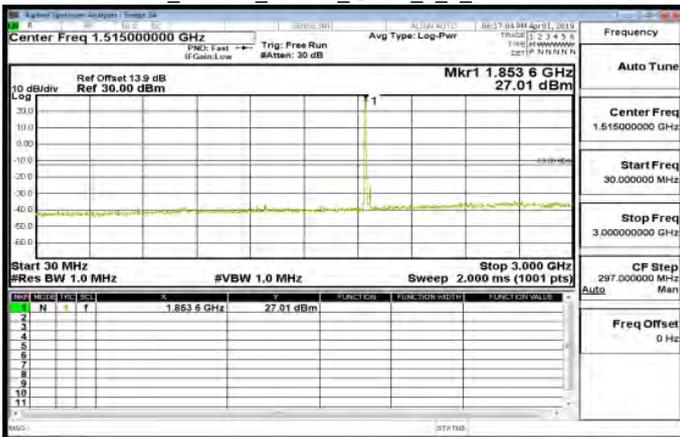
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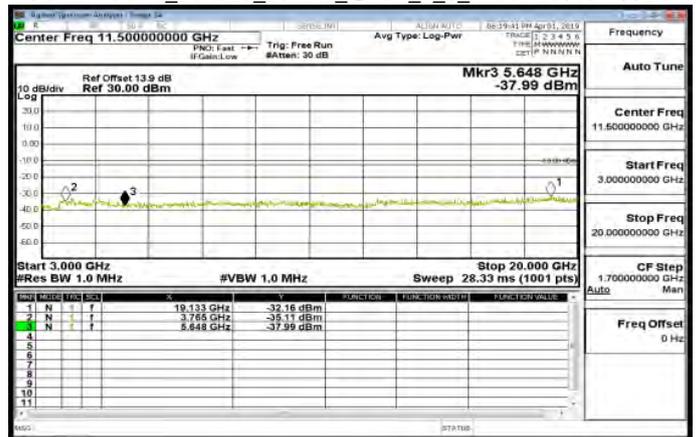
30MHz-3GHz_Band25_20MHz_QPSK_1_0_MidCH26365-1882.5



30MHz-3GHz_Band25_20MHz_QPSK_1_0_LowCH26140-1860



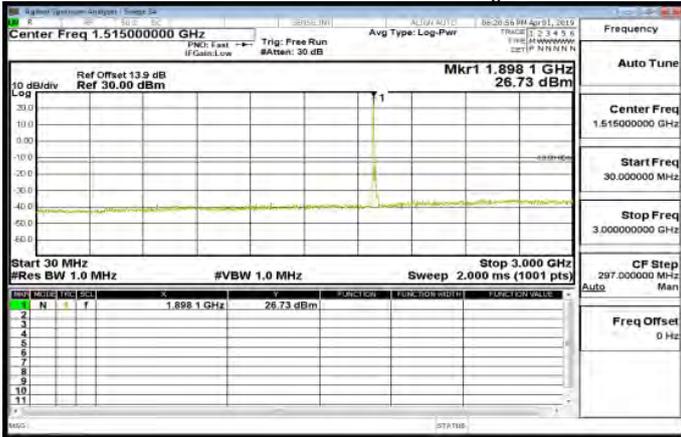
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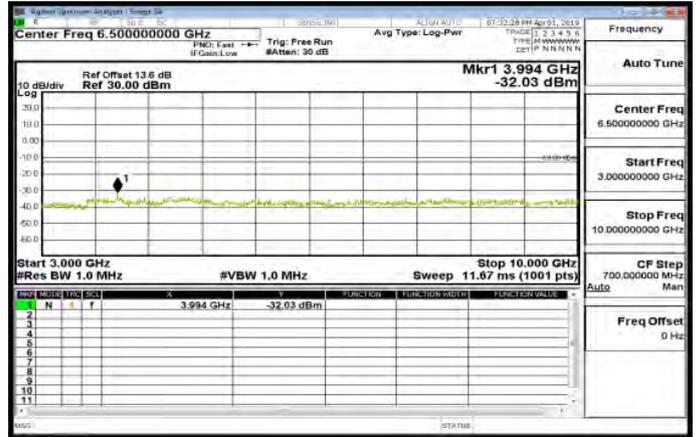
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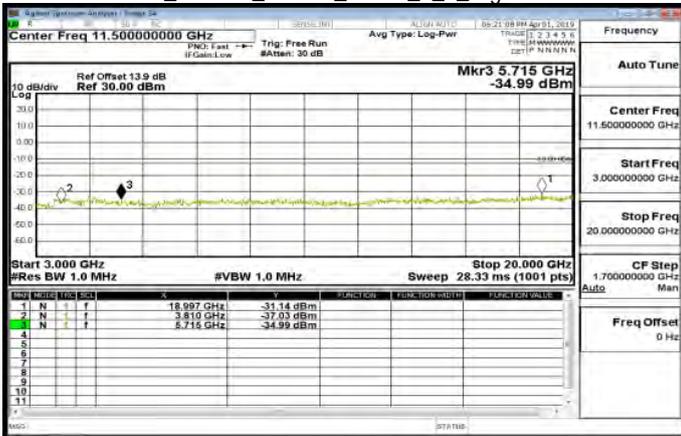
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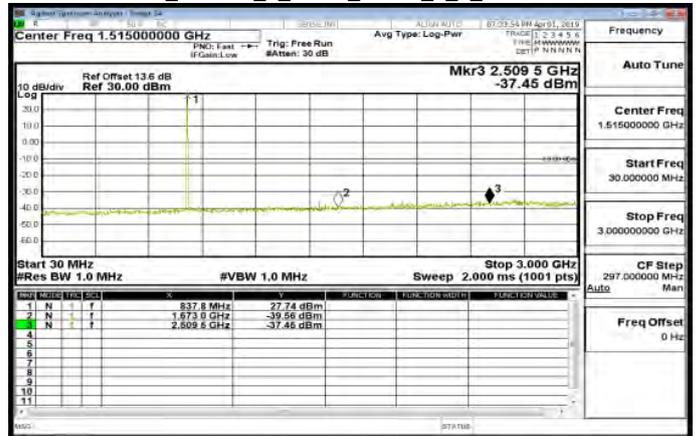
3GHz-10GHz_Band26_1_4MHz_QPSK_1_0_LowCH26797-824.7



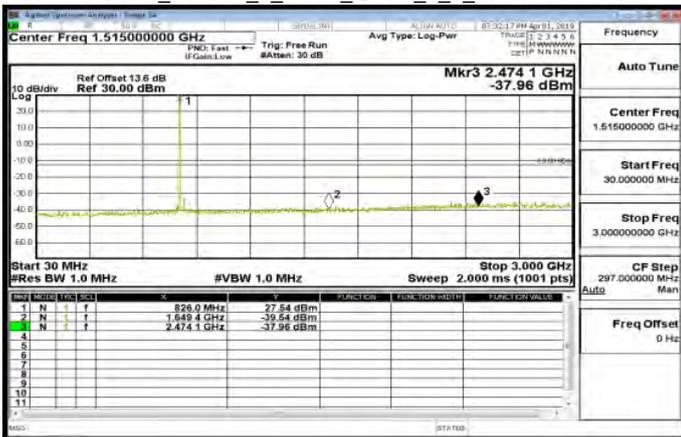
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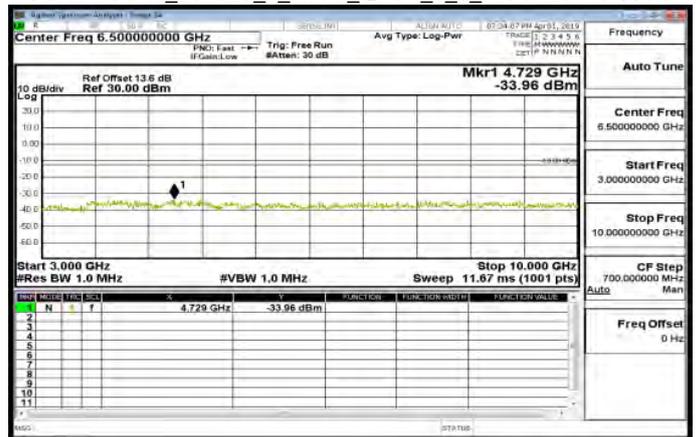
30MHz-3GHz_Band26_1_4MHz_QPSK_1_0_MidCH26915-836.5



30MHz-3GHz_Band26_1_4MHz_QPSK_1_0_LowCH26797-824.7



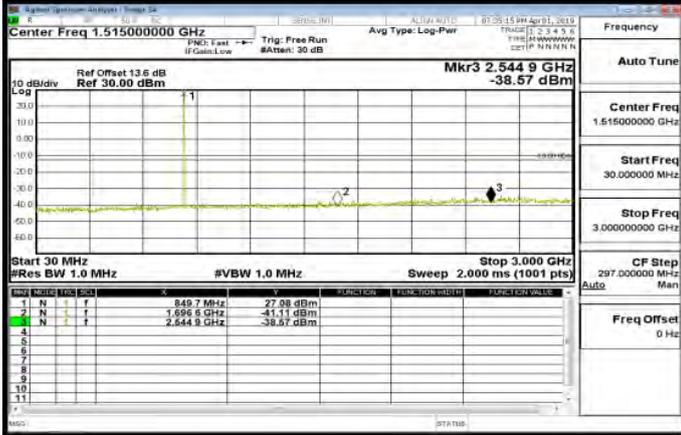
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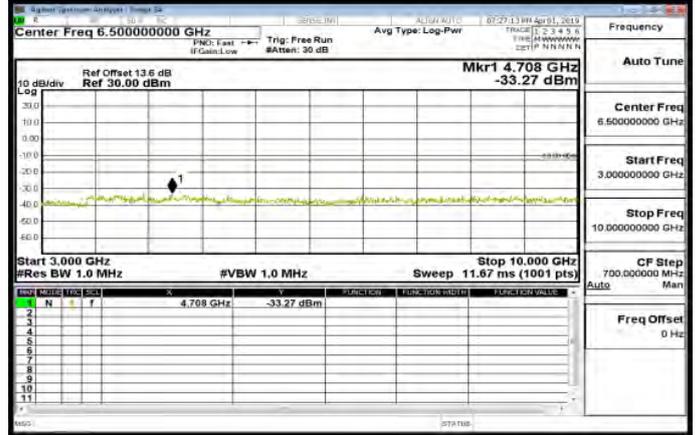
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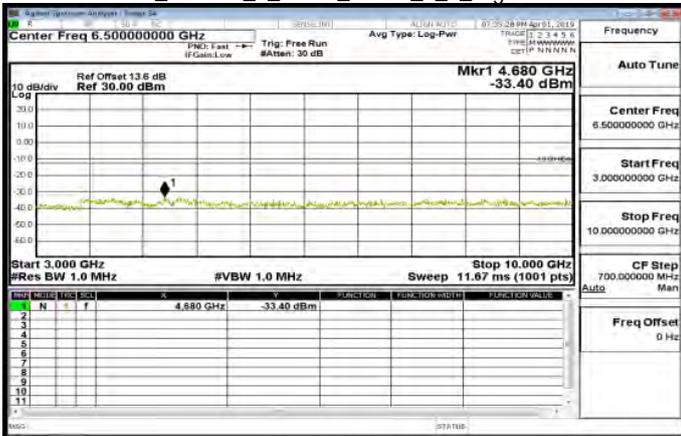
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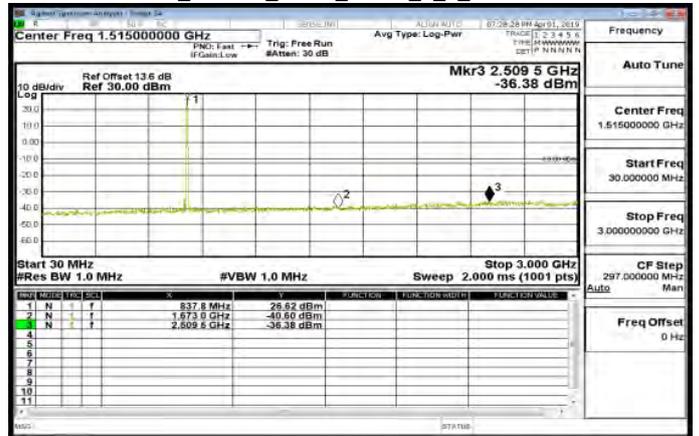
3GHz~10GHz_Band26_3MHz_QPSK_1_0_LowCH26805-825.5



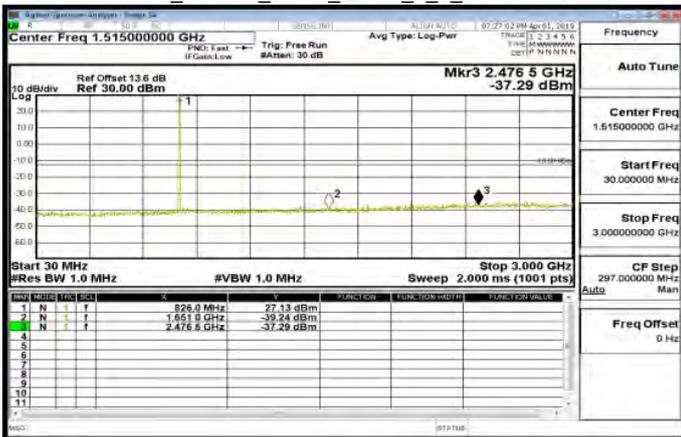
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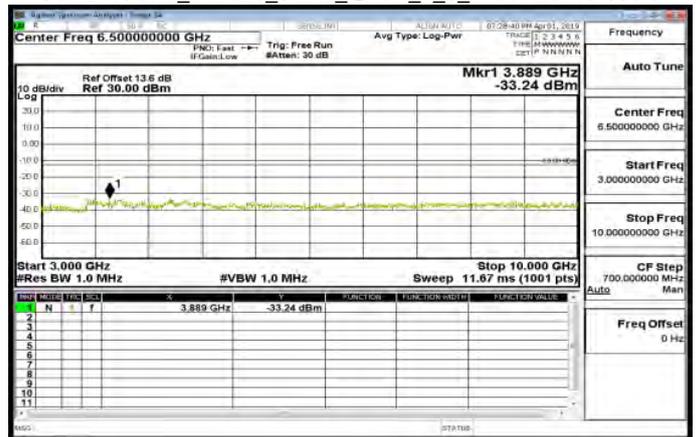
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30MHz~3GHz_Band26_3MHz_QPSK_1_0_LowCH26805-825.5



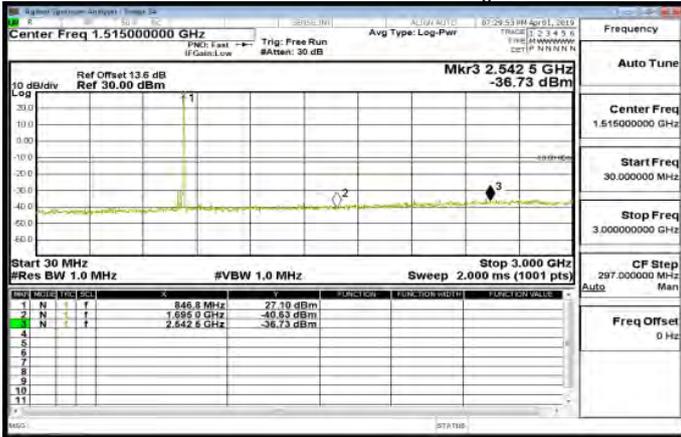
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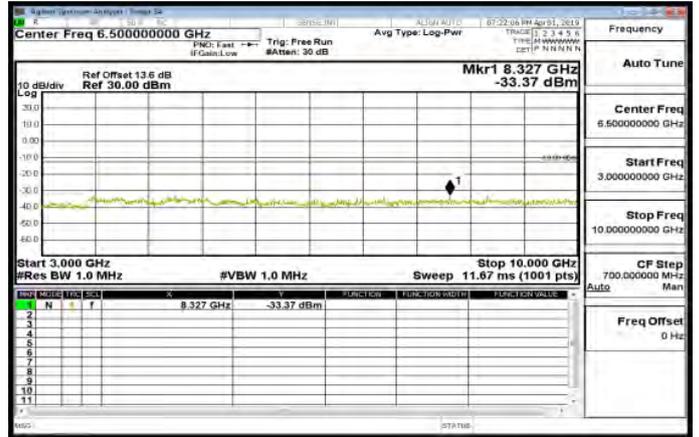
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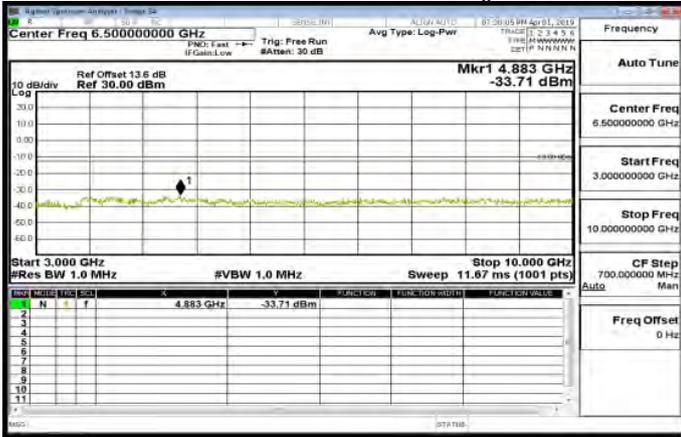
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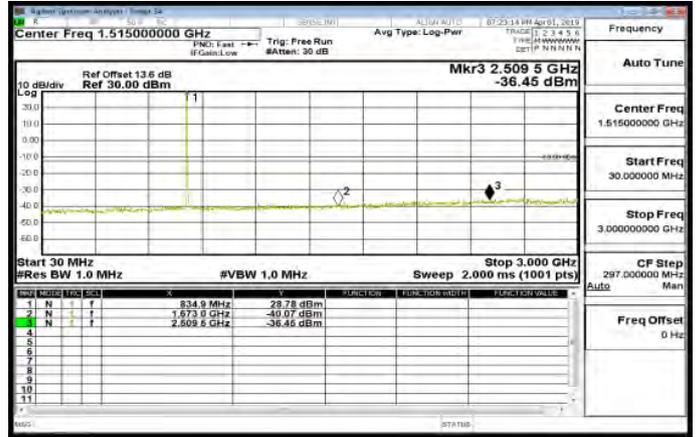
3GHz~10GHz_Band26_5MHz_QPSK_1_0_LowCH26815-826.5



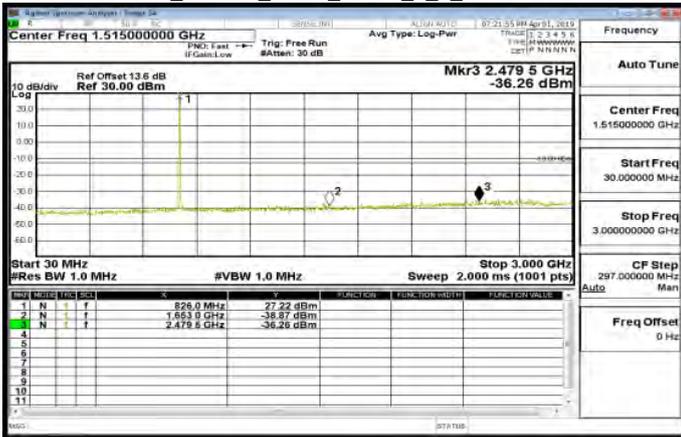
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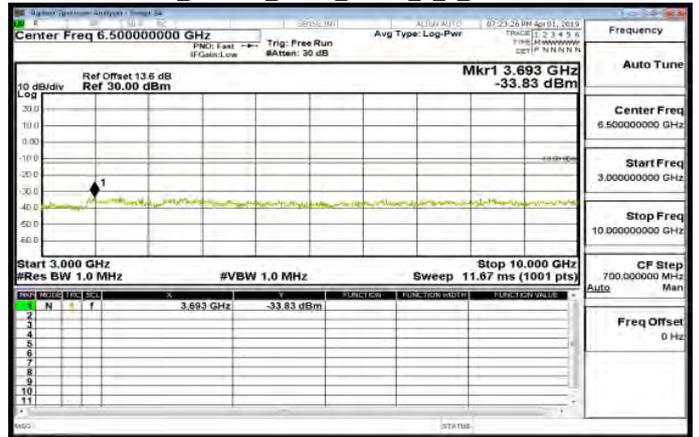
30MHz~3GHz_Band26_5MHz_QPSK_1_0_MidCH26915-836.5



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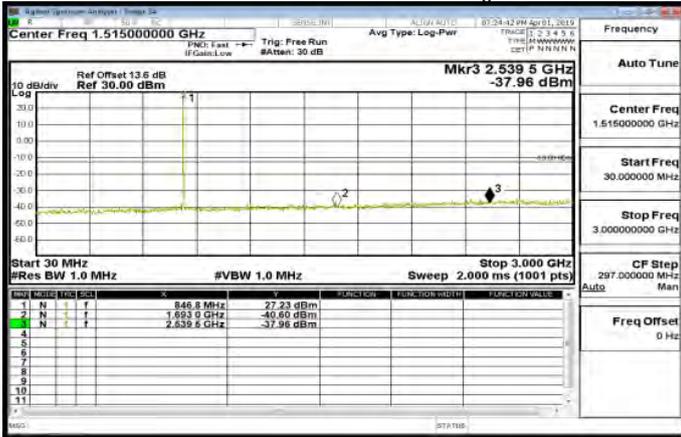


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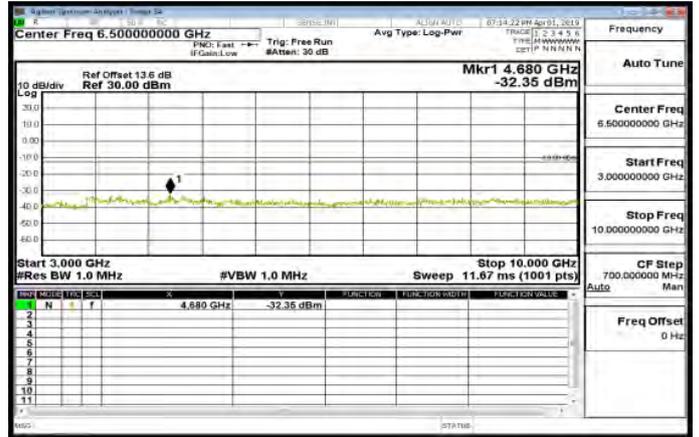
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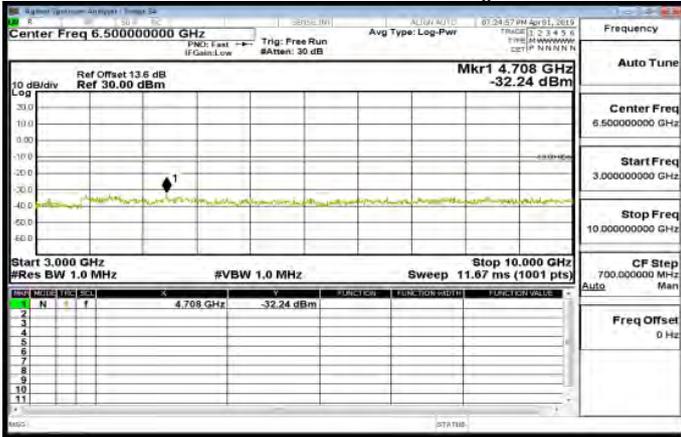
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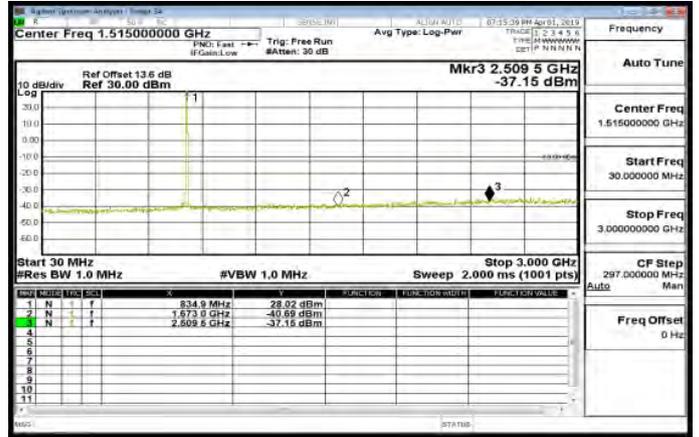
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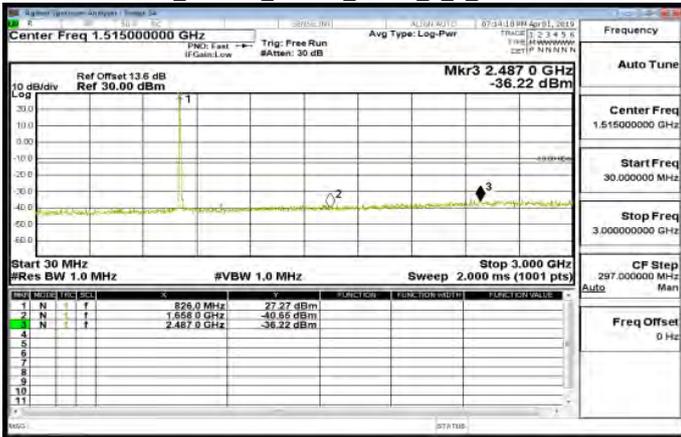
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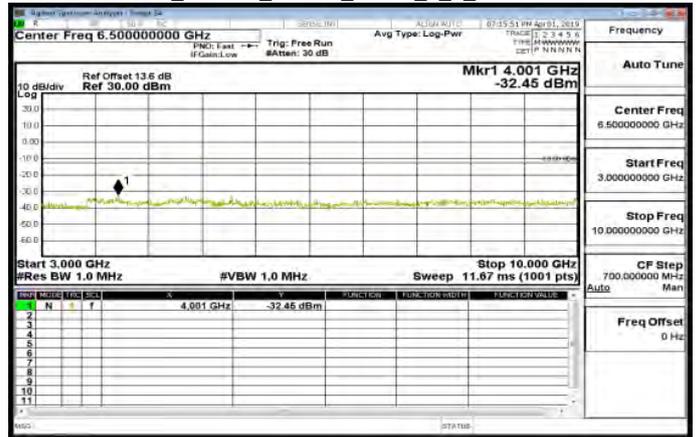
30MHz-3GHz_Band26_10MHz_QPSK_1_0_MidCH26915-836.5



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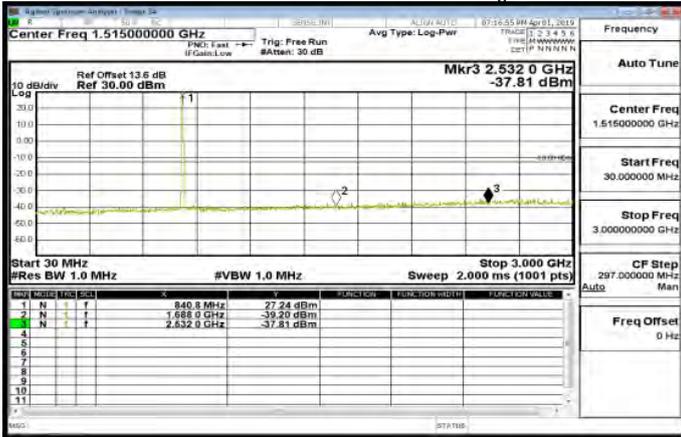


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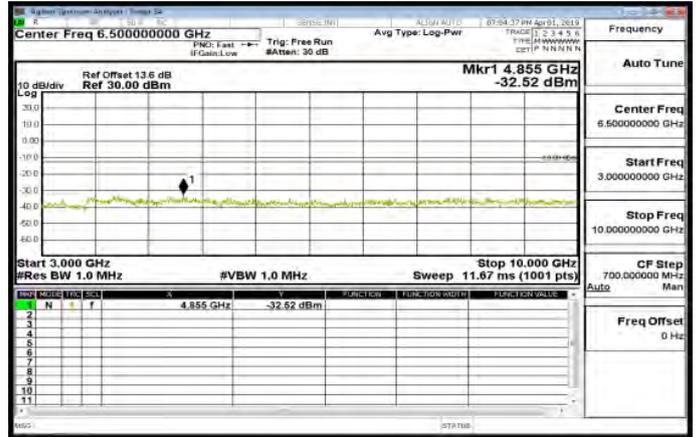
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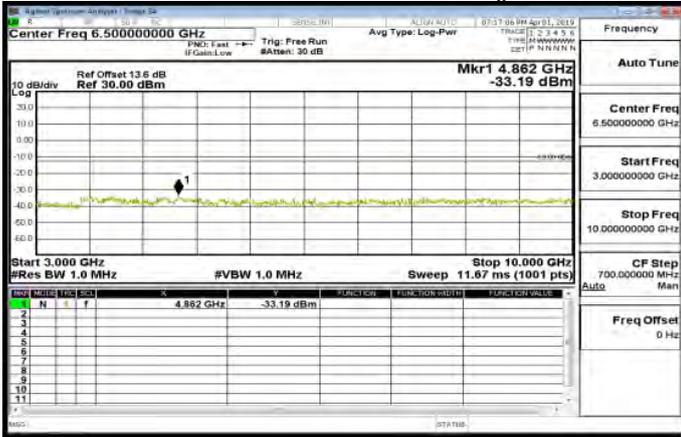
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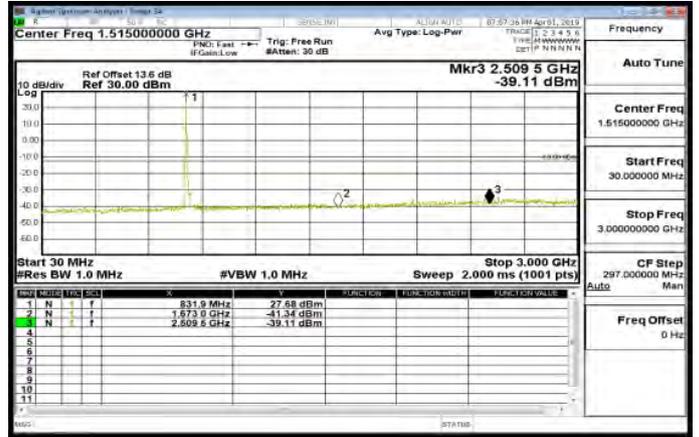
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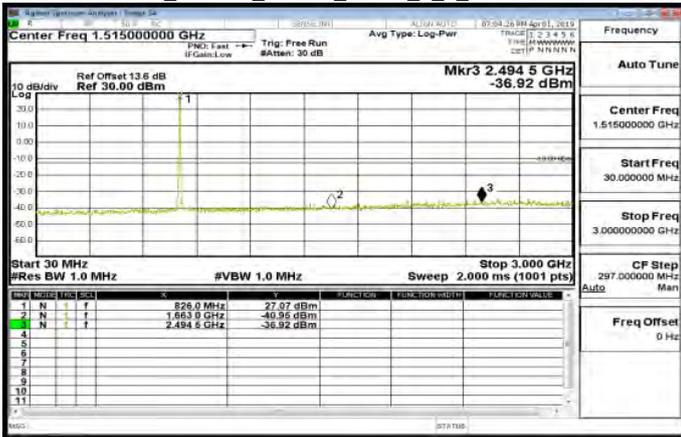
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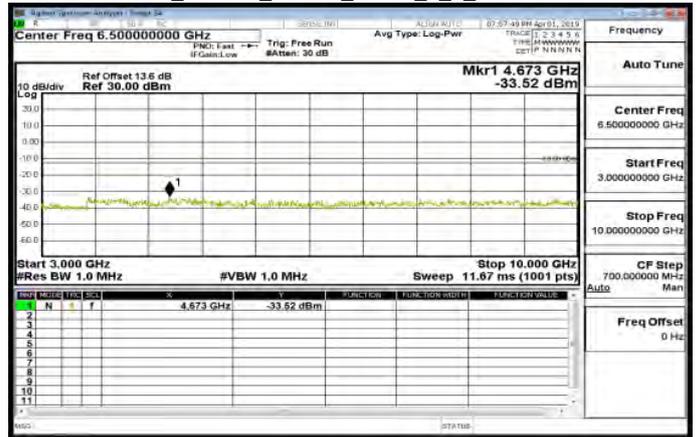
30MHz-3GHz_Band26_15MHz_QPSK_1_0_MidCH26915-836.5



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3GHz-10GHz_Band26_15MHz_QPSK_1_0_MidCH26915-836.5

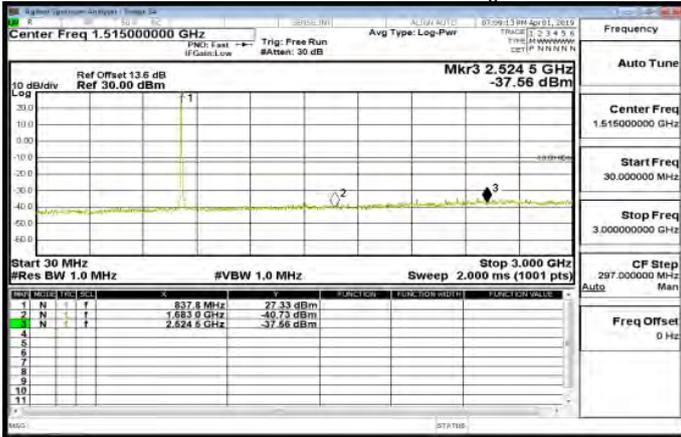


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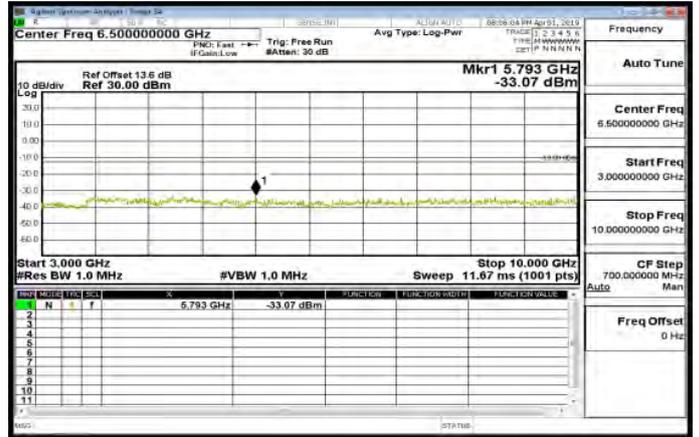
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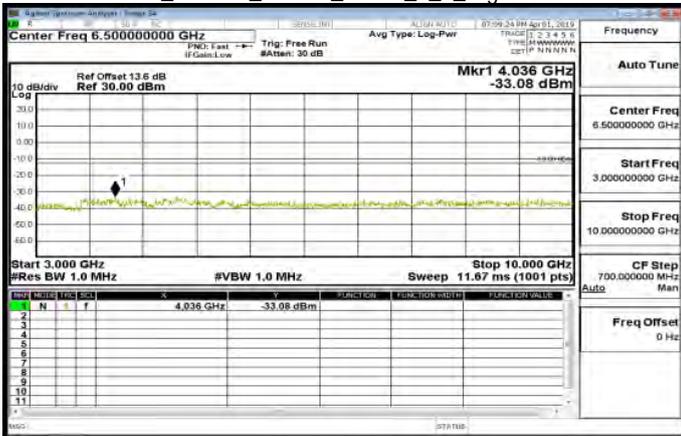
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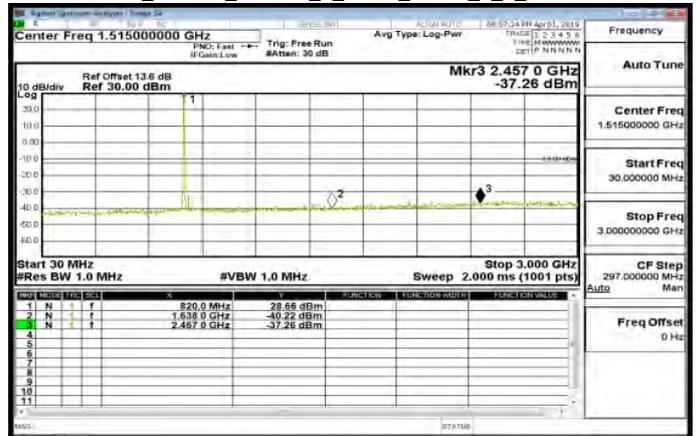
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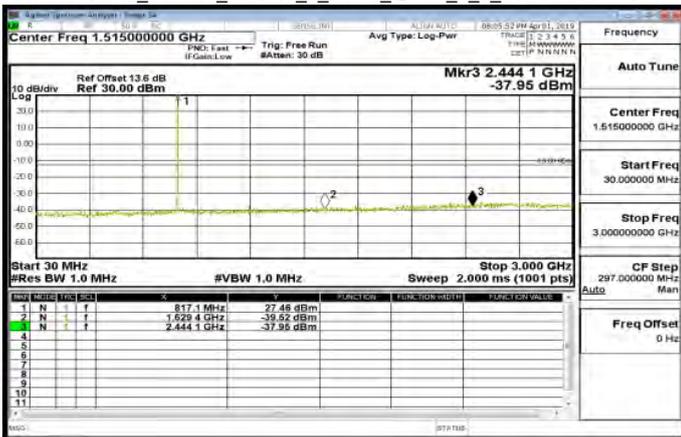
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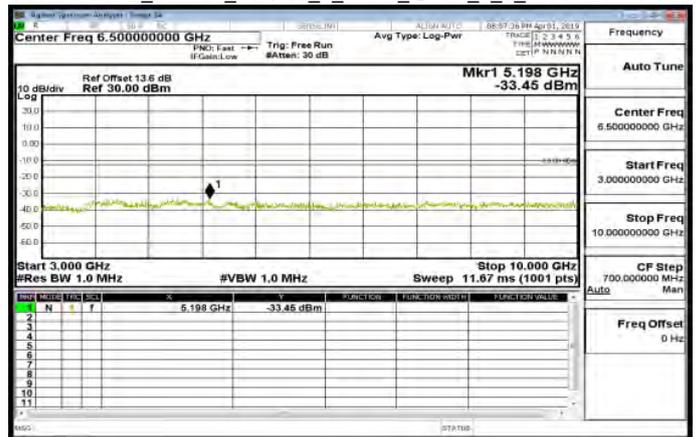
30MHz-3GHz_Band26_Part90s_1_4MHz_QPSK_1_0_MidCH26740-819



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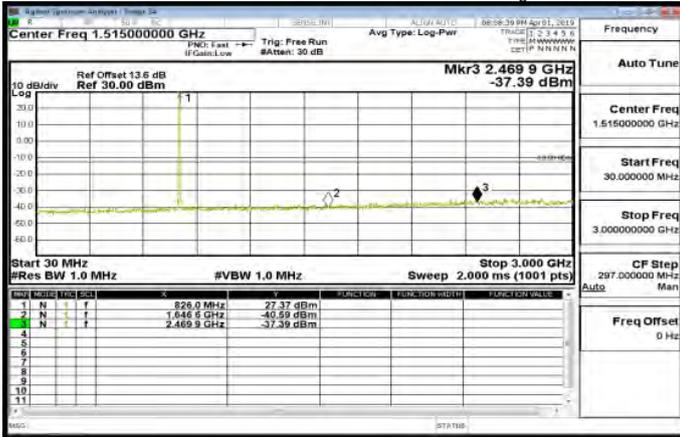
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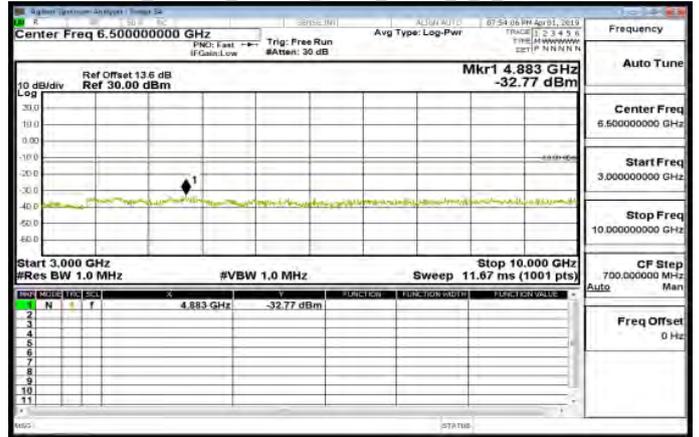
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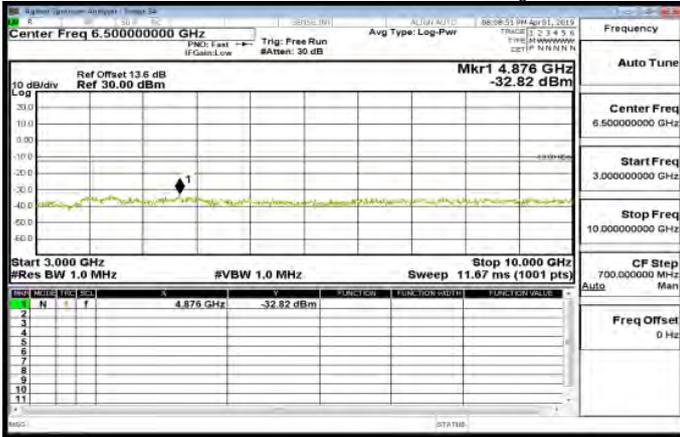
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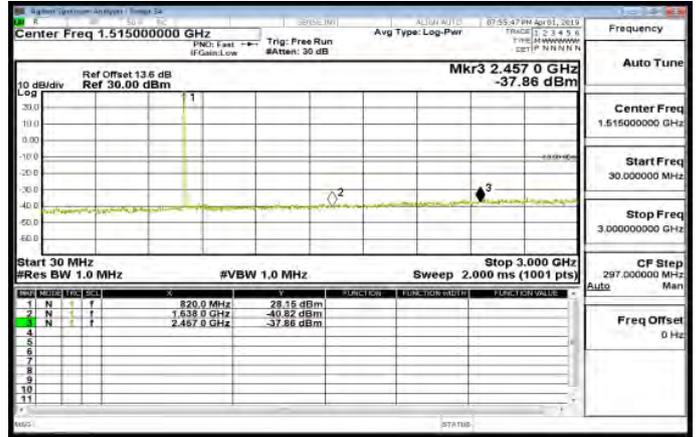
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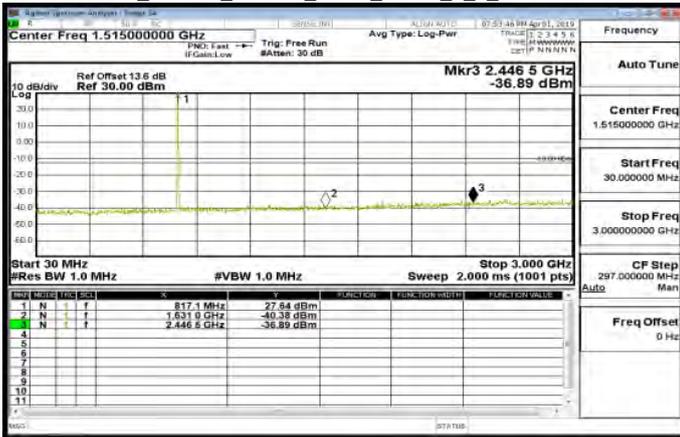
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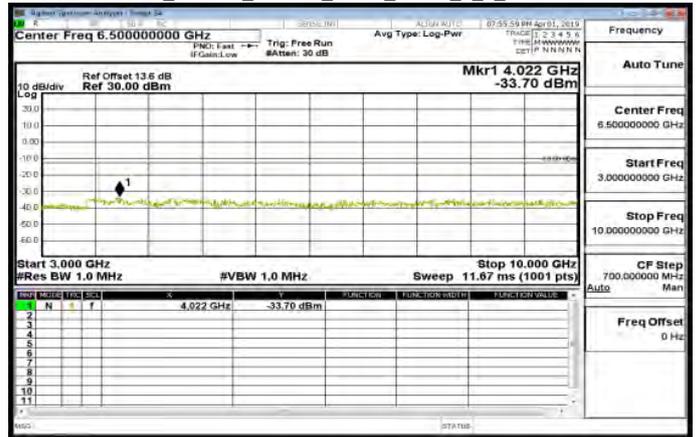
30MHz-3GHz_Band26_Part90s_3MHz_QPSK_1_0_MidCH26740-819



30MHz-3GHz_Band26_Part90s_3MHz_QPSK_1_0_LowCH26705-815.5



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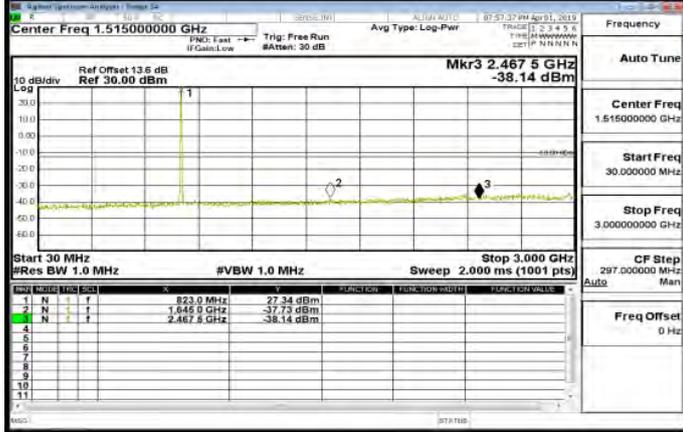


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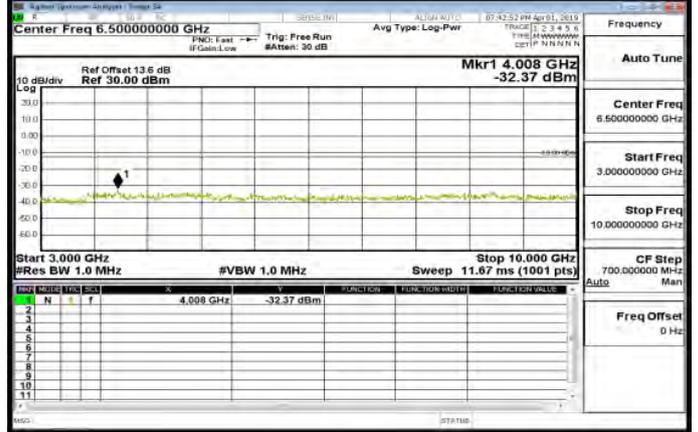
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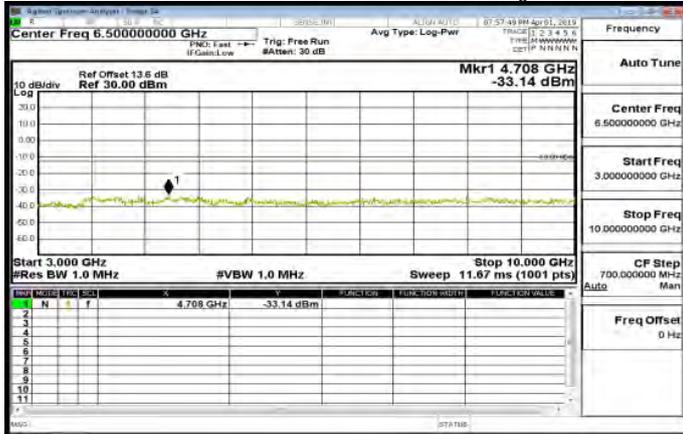
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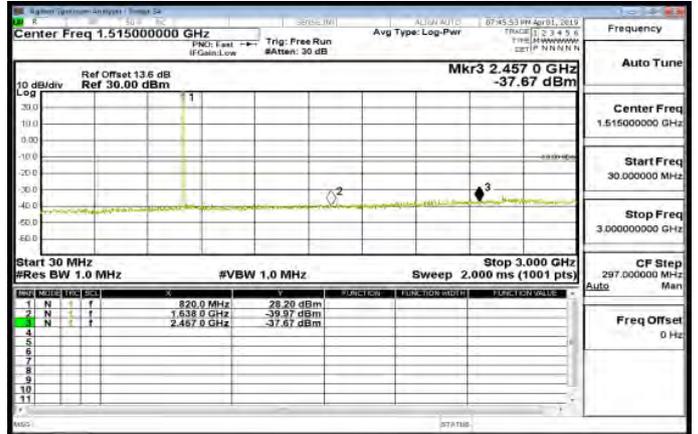
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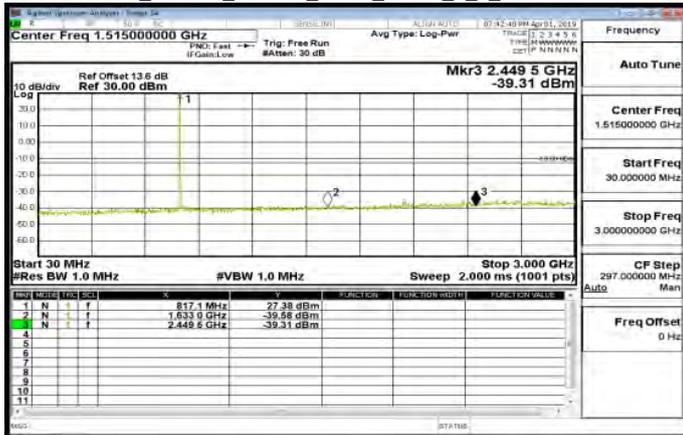
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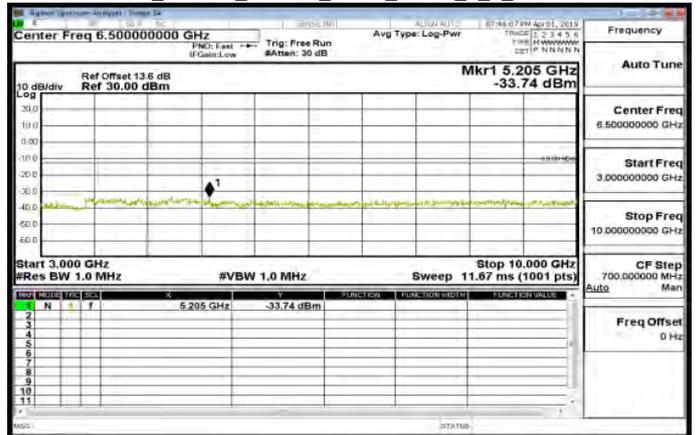
30MHz~3GHz_Band26_Part90s_5MHz_QPSK_1_0_MidCH26740-819



30MHz~3GHz_Band26_Part90s_5MHz_QPSK_1_0_LowCH26715-816.5



3GHz~10GHz_Band26_Part90s_5MHz_QPSK_1_0_MidCH26740-819

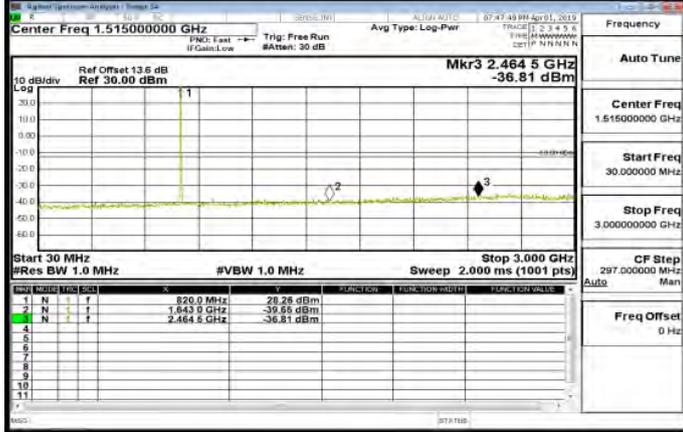


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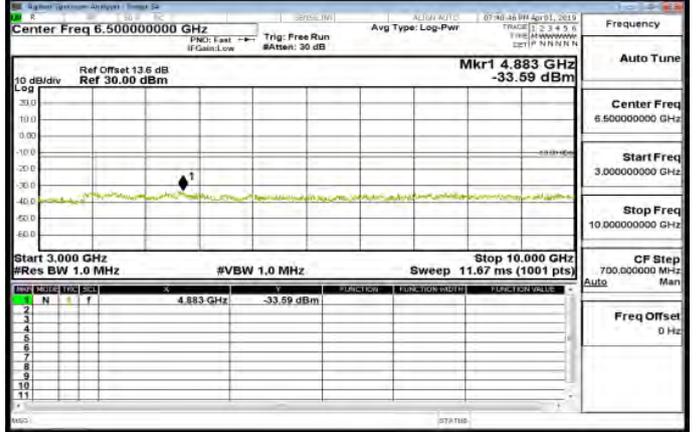
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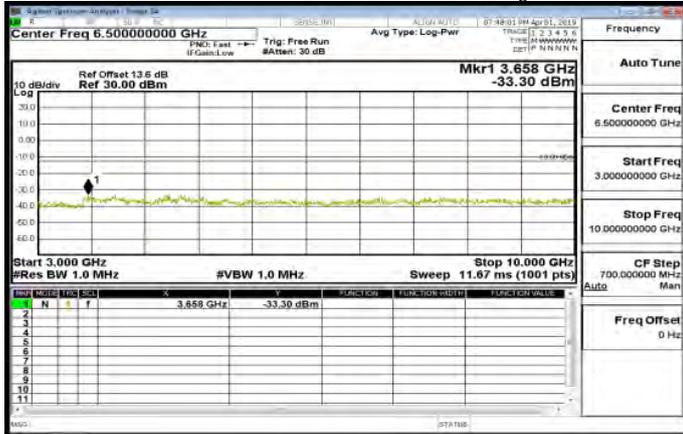
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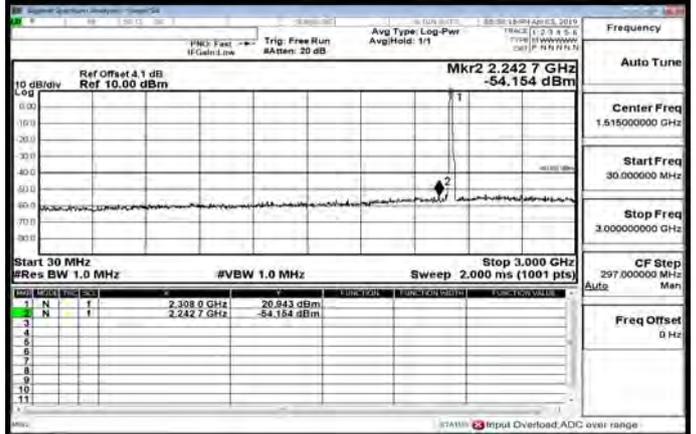
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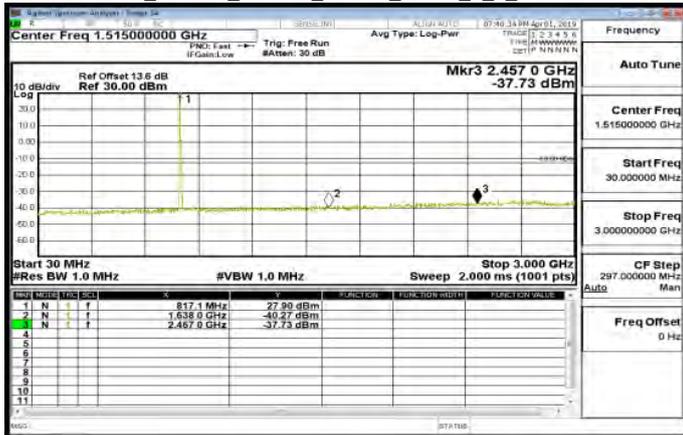
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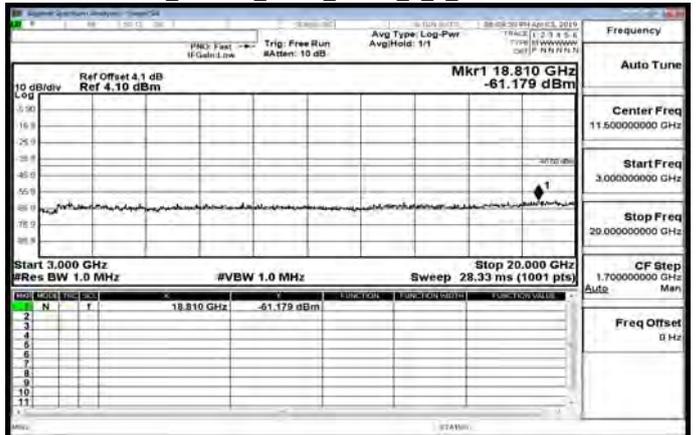
30MHz~3GHz_Band30_5MHz_QPSK_1_0_LowCH27685-2307.5



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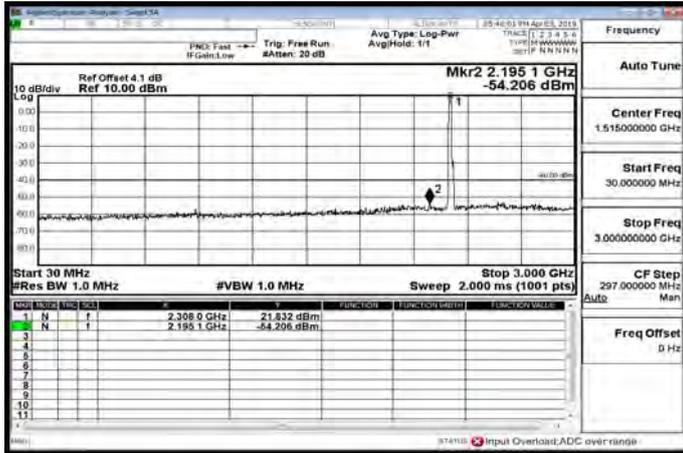
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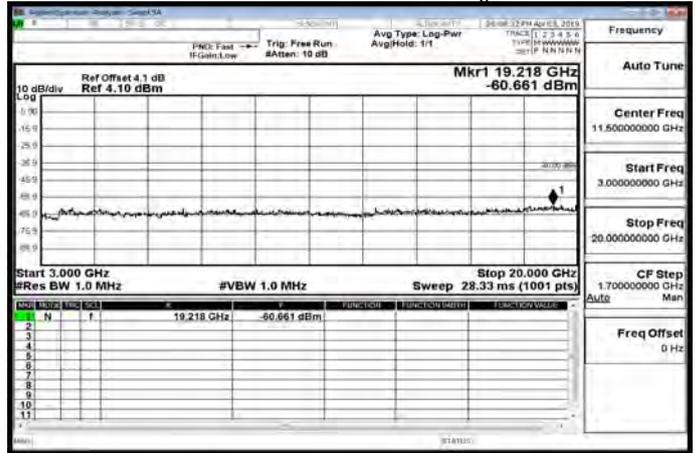
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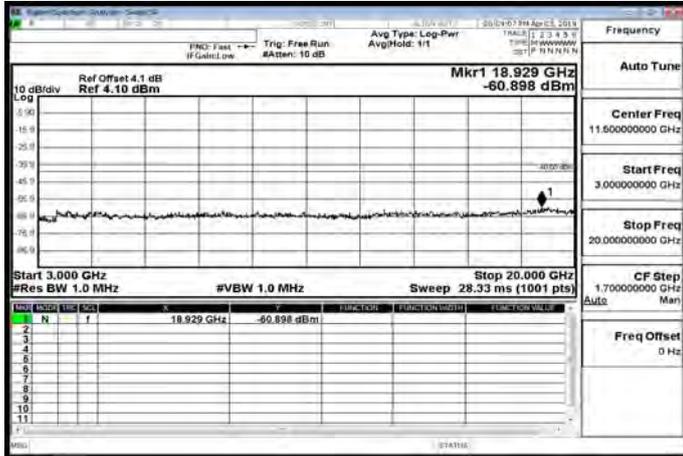
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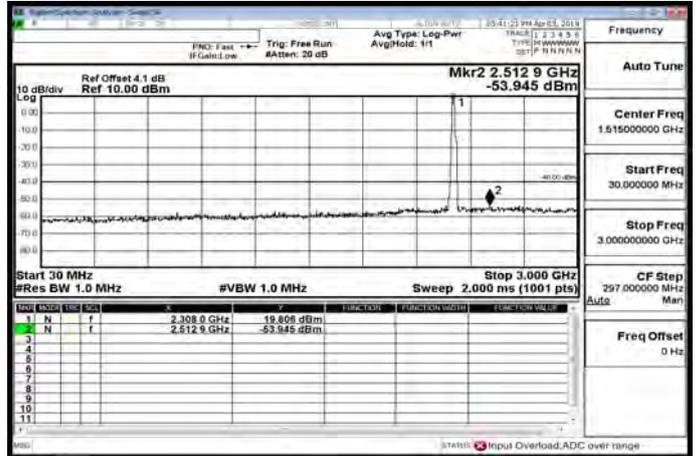
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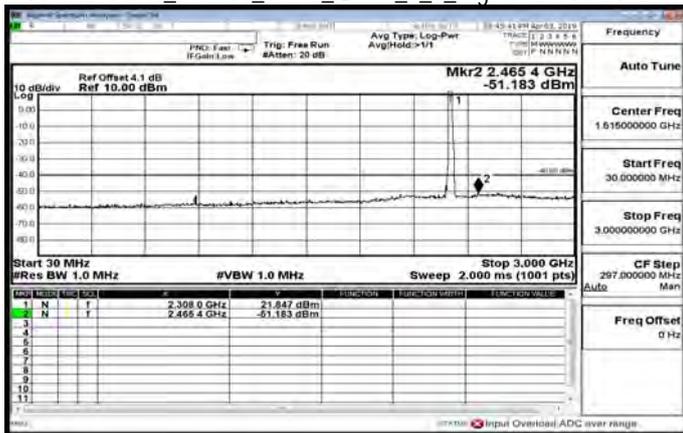
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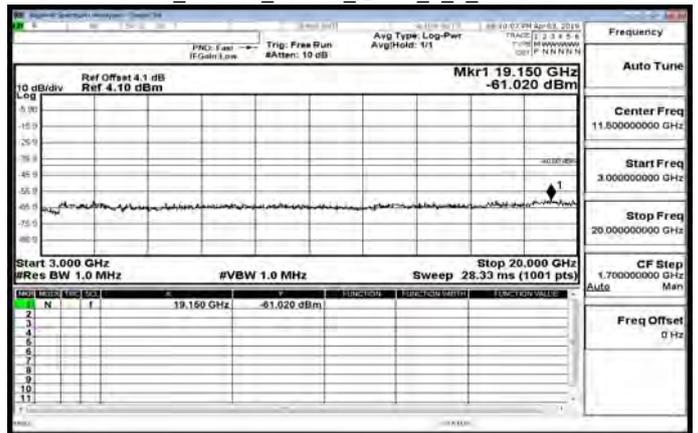
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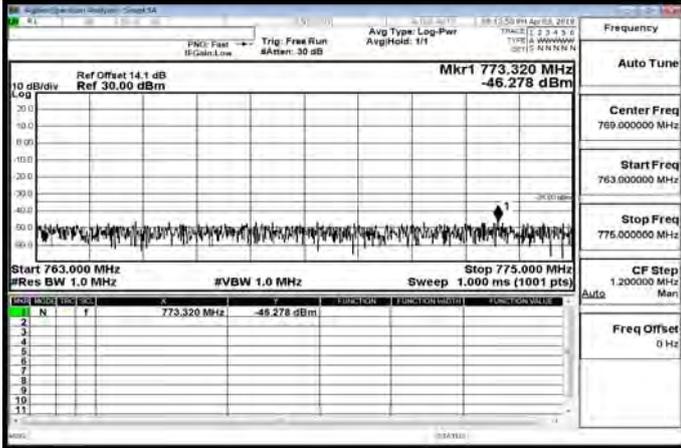
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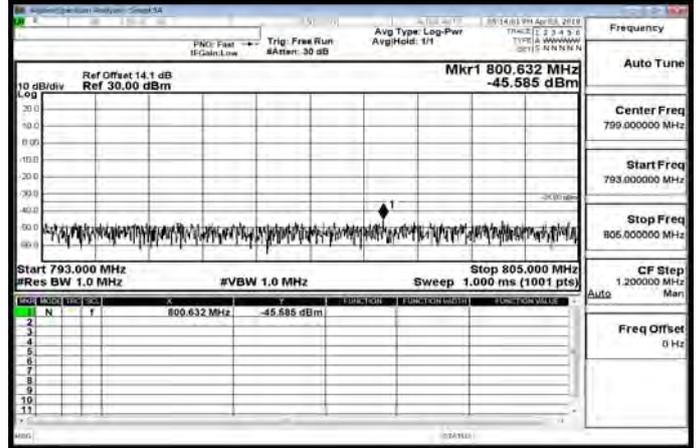
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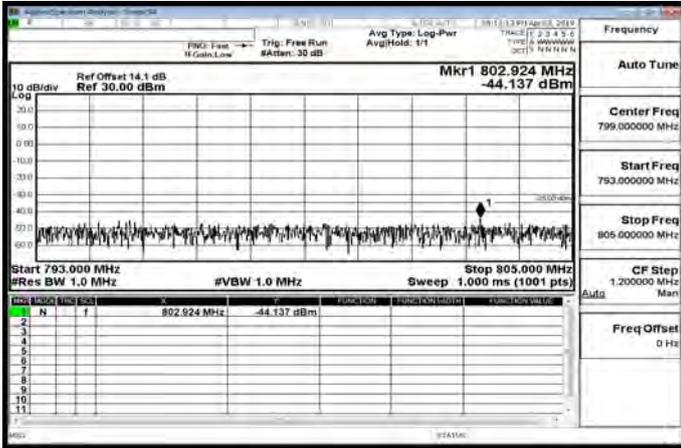
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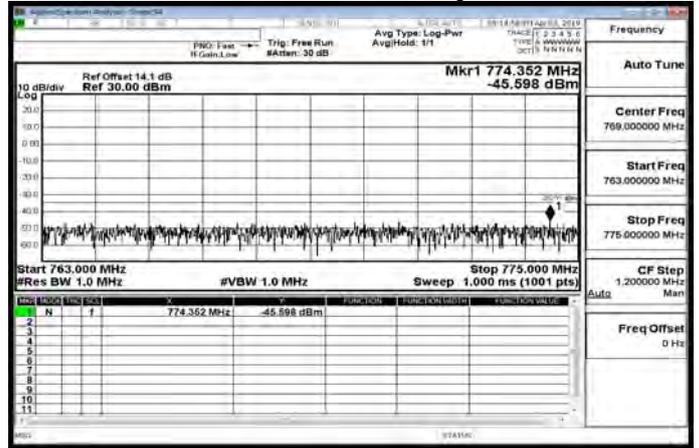
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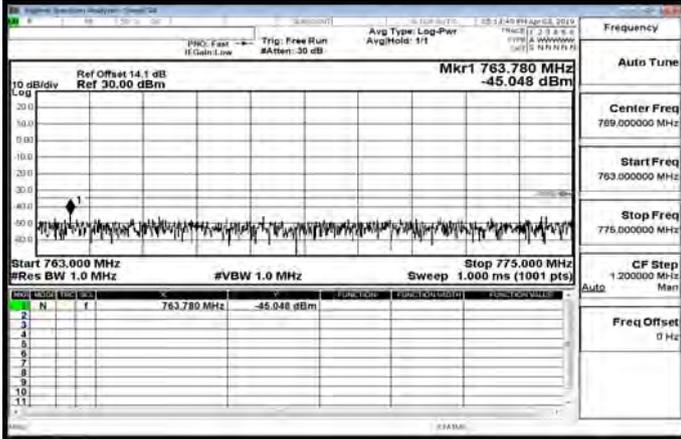
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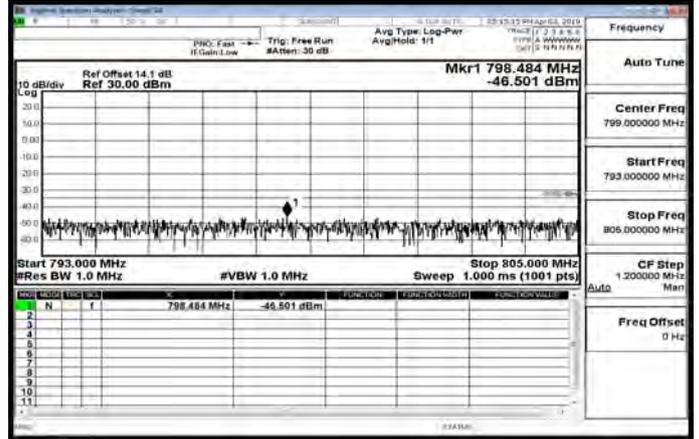
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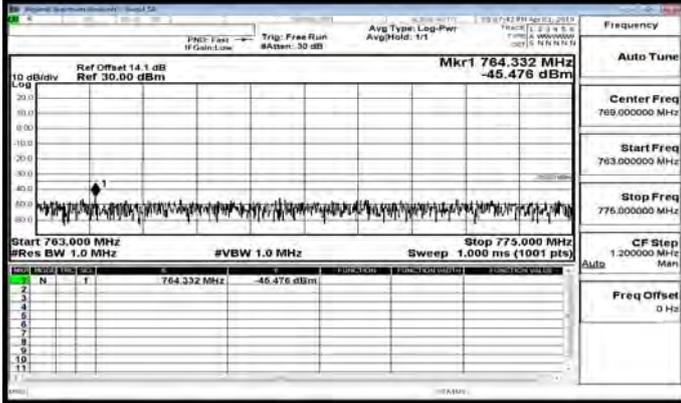


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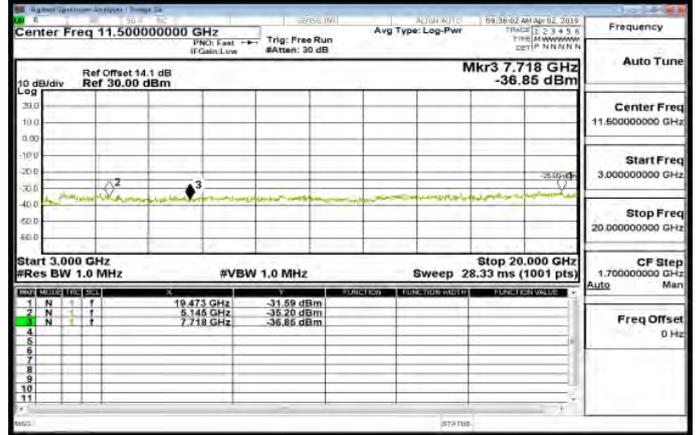
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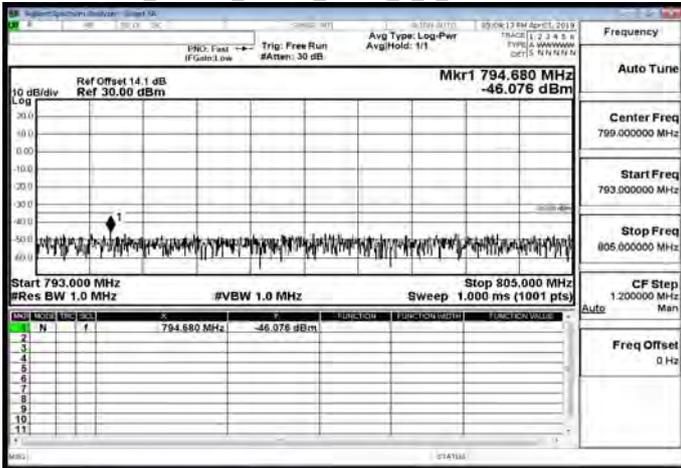
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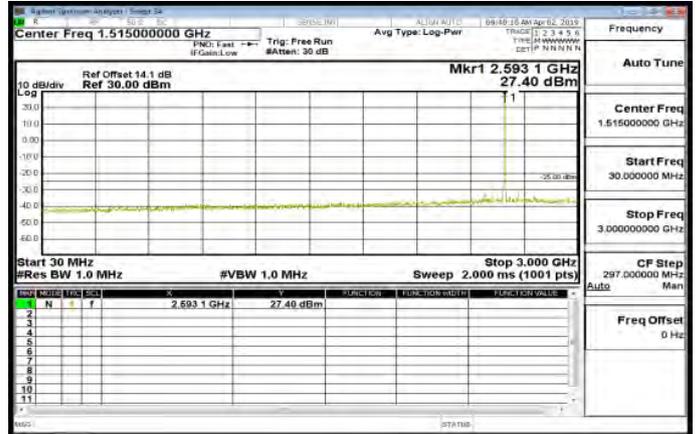
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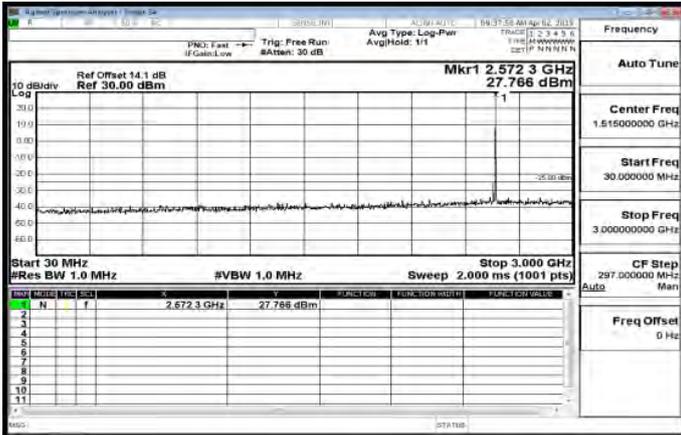
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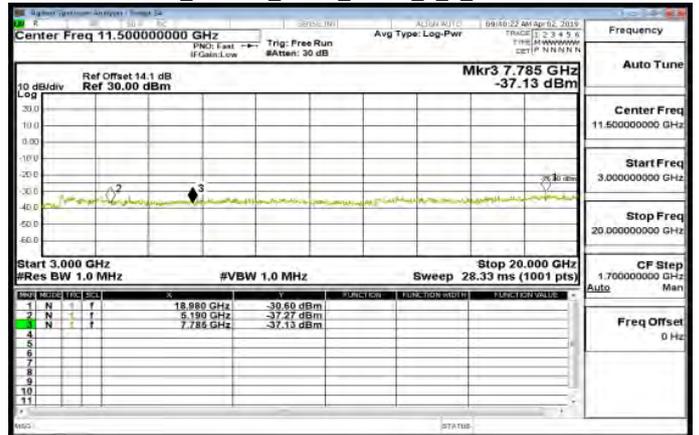
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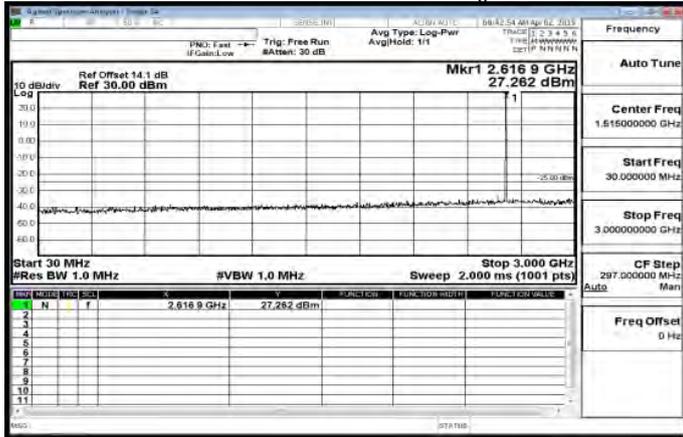


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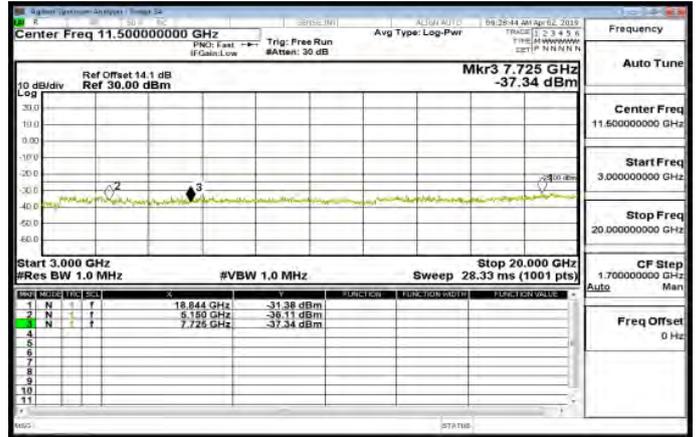
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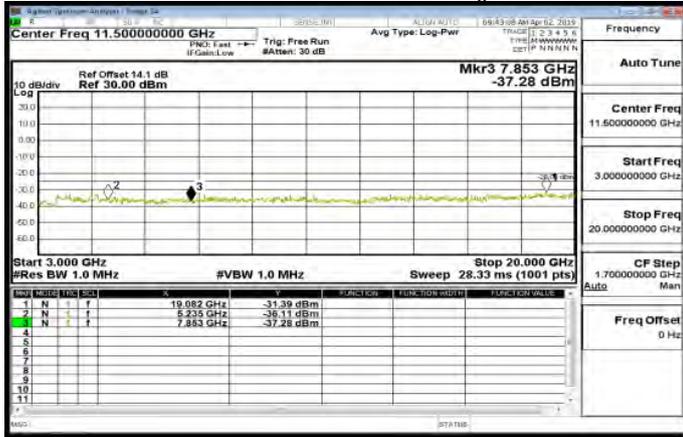
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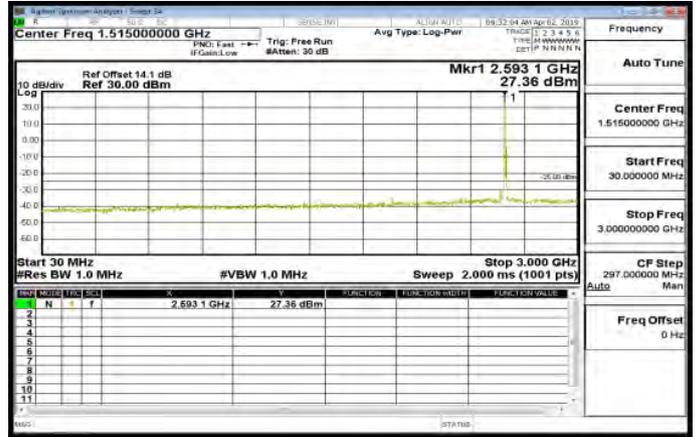
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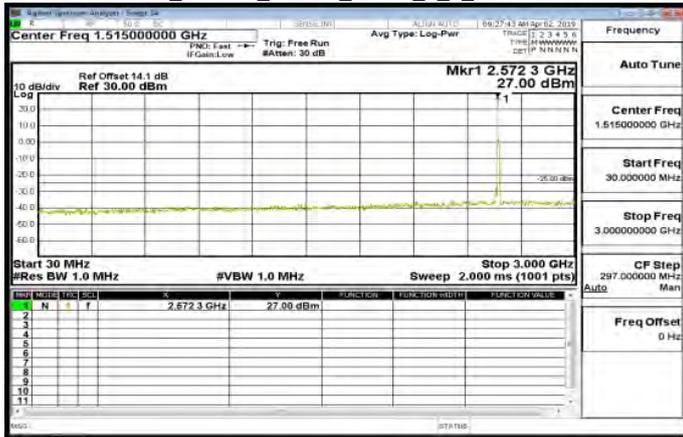
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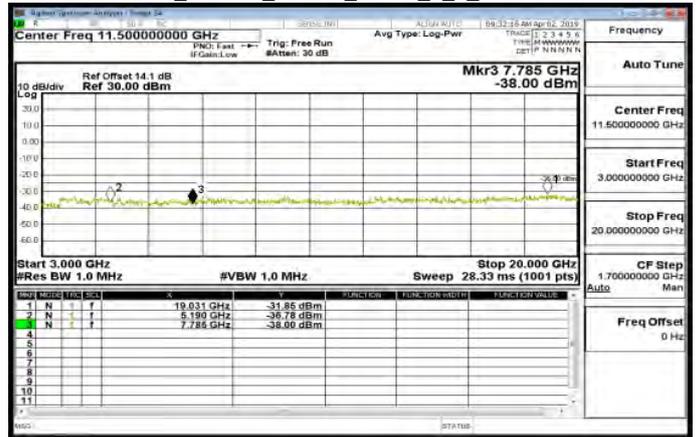
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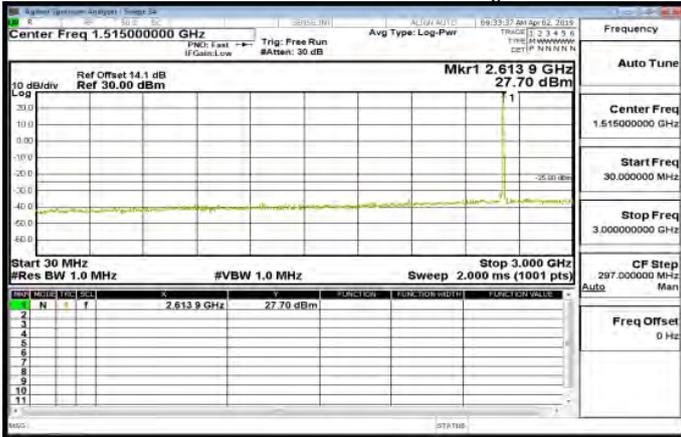


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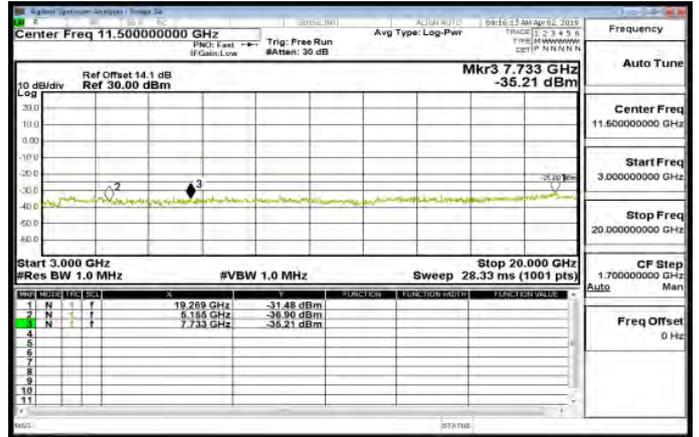
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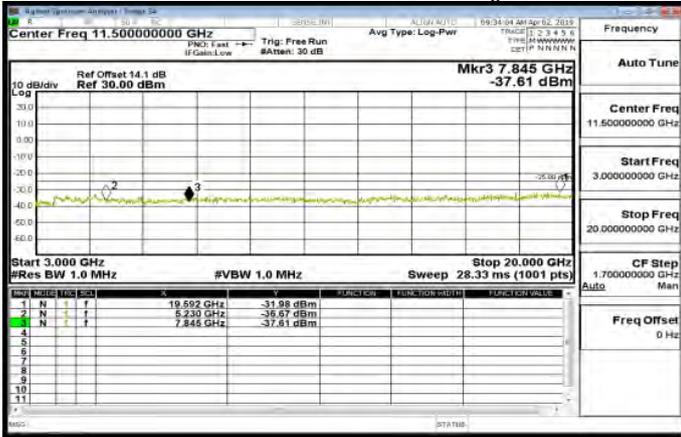
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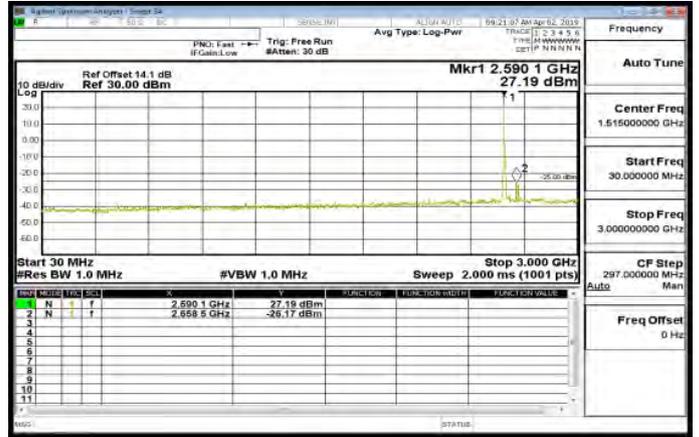
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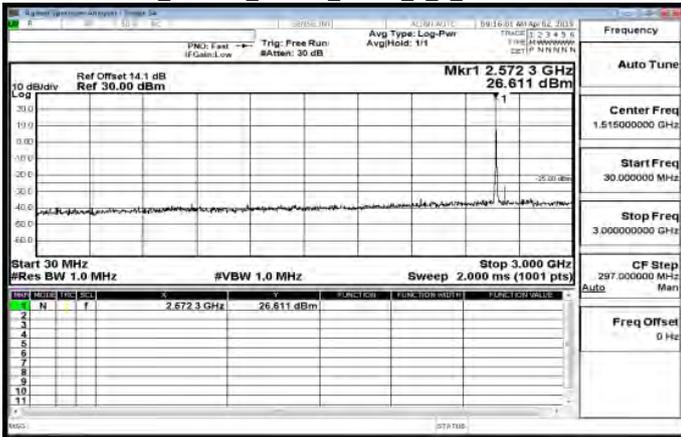
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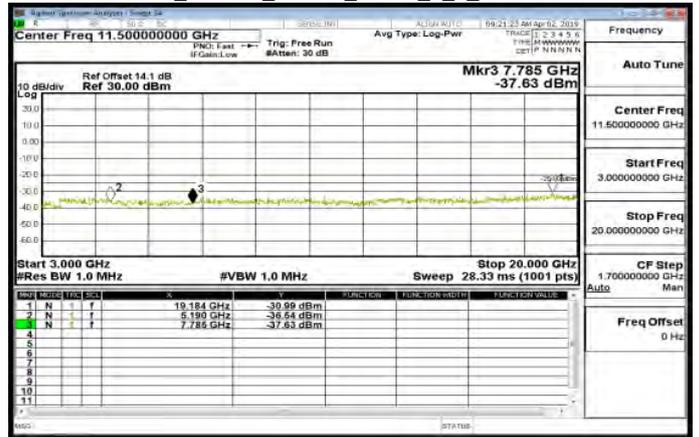
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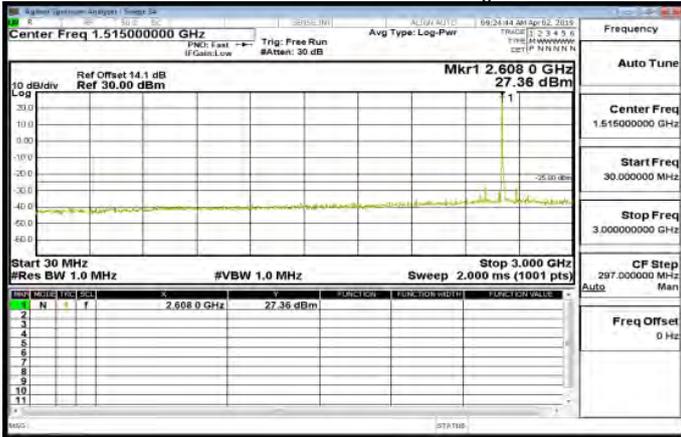


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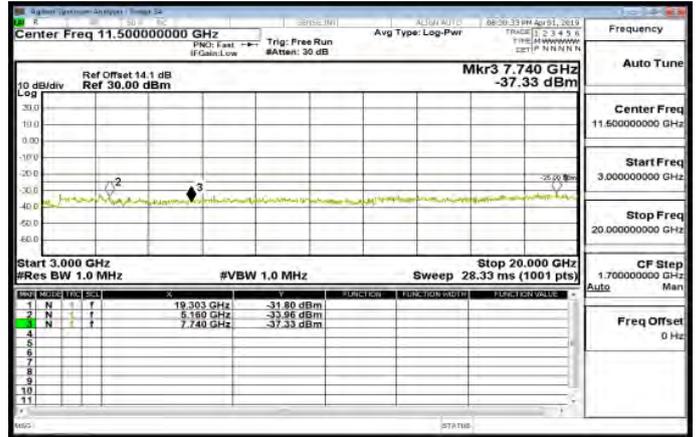
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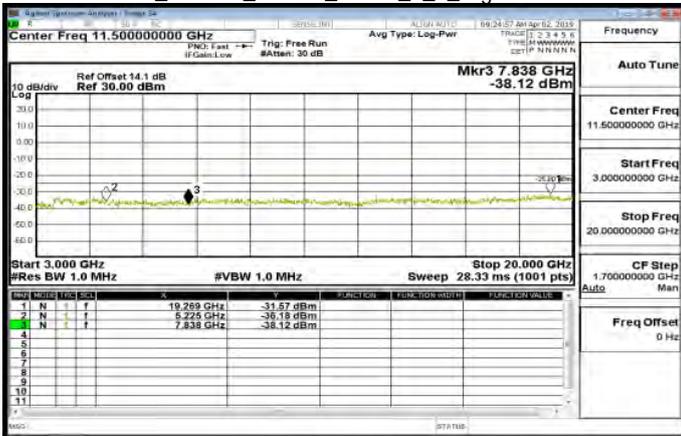
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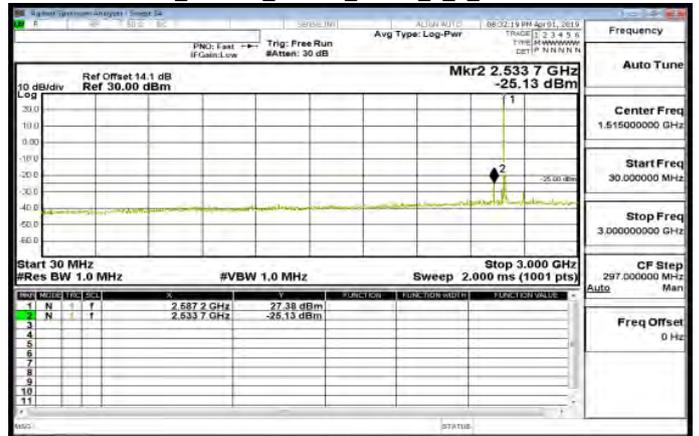
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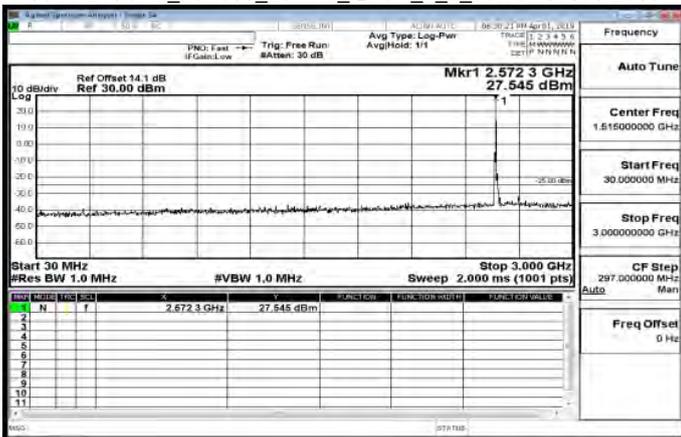
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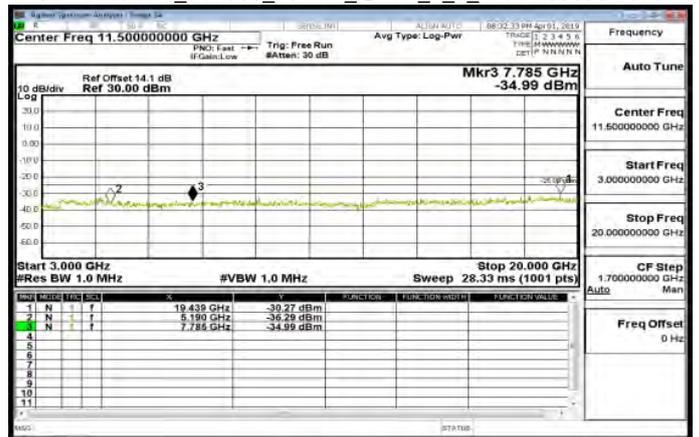
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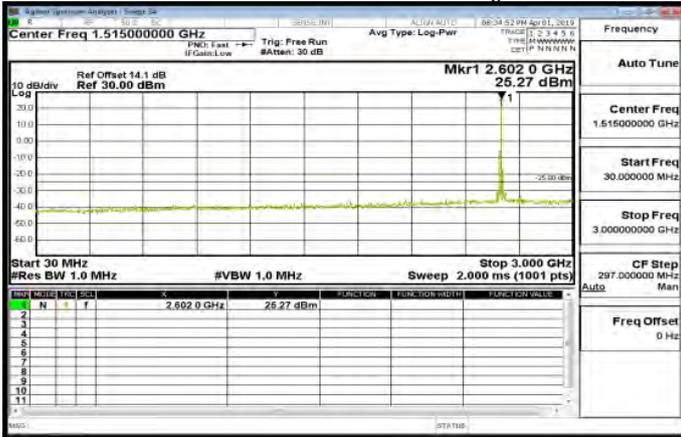


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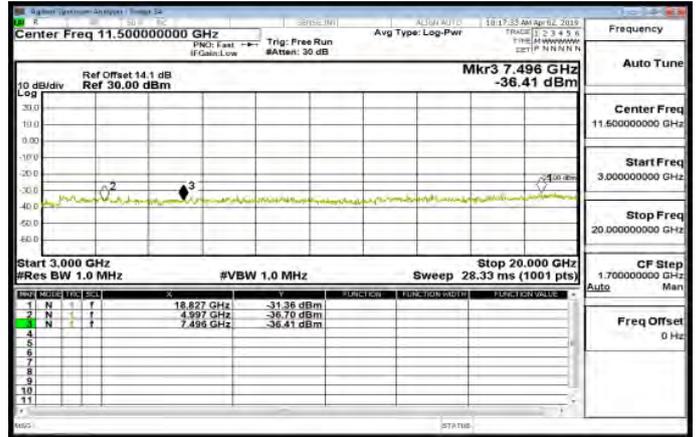
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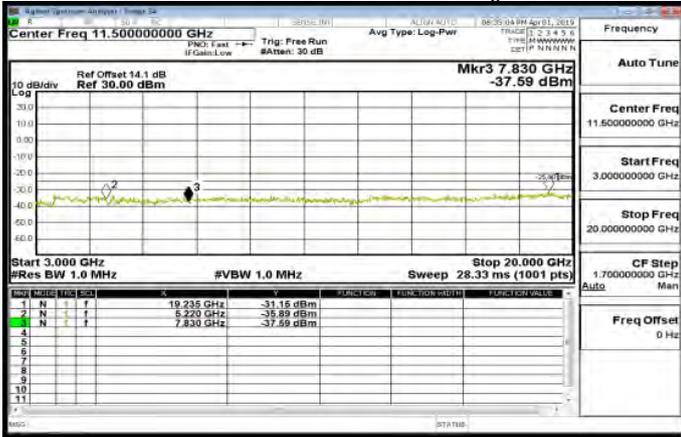
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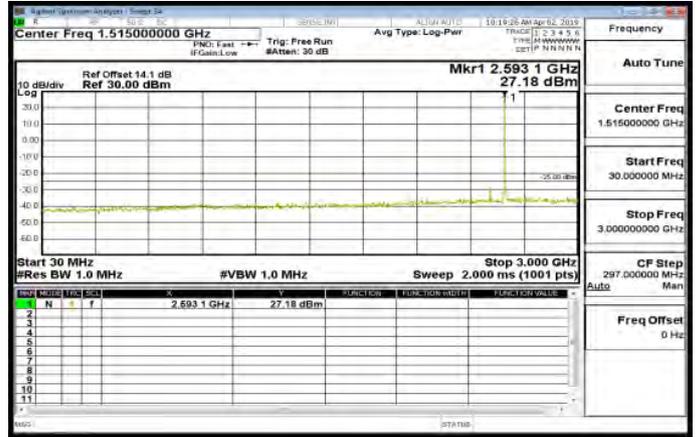
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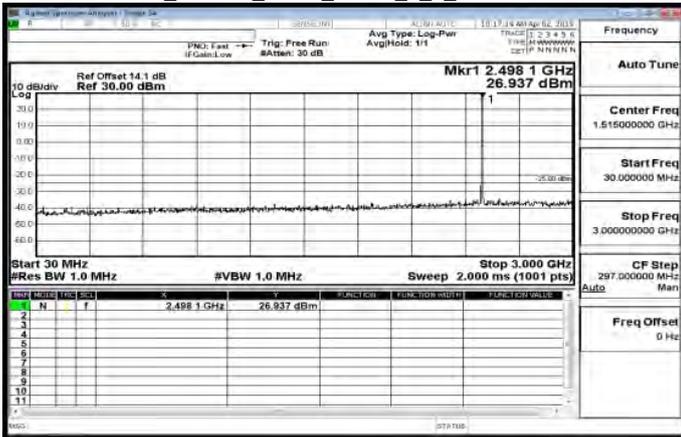
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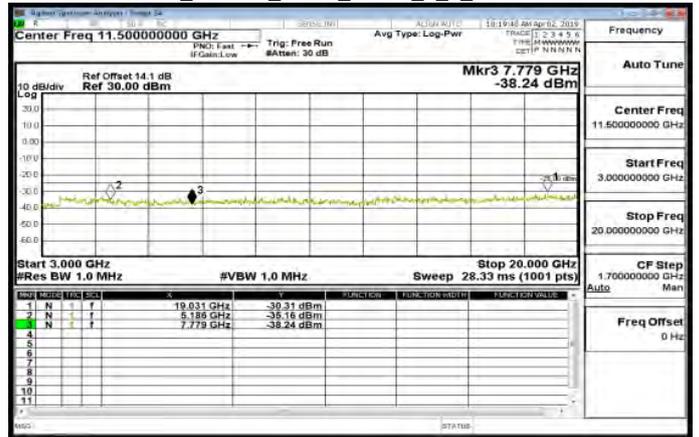
30MHz-3GHz_Band41_5MHz_QPSK_1_0_MidCH40620-2593



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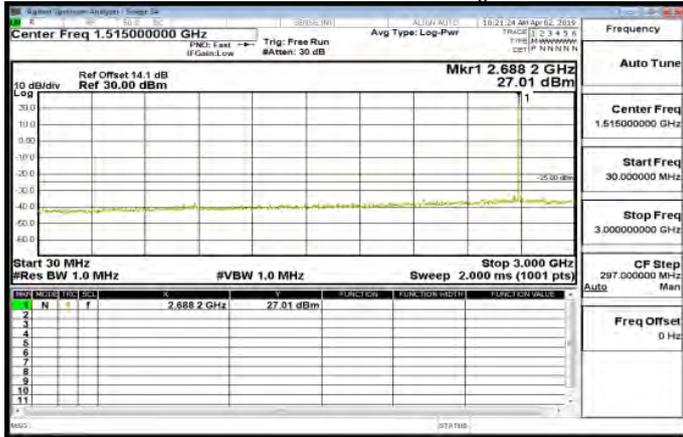


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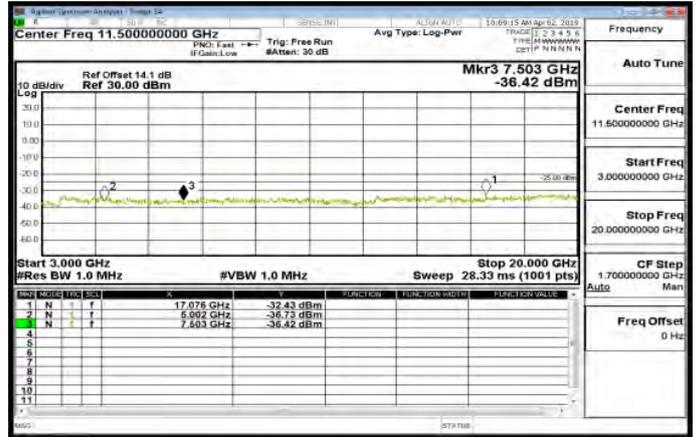
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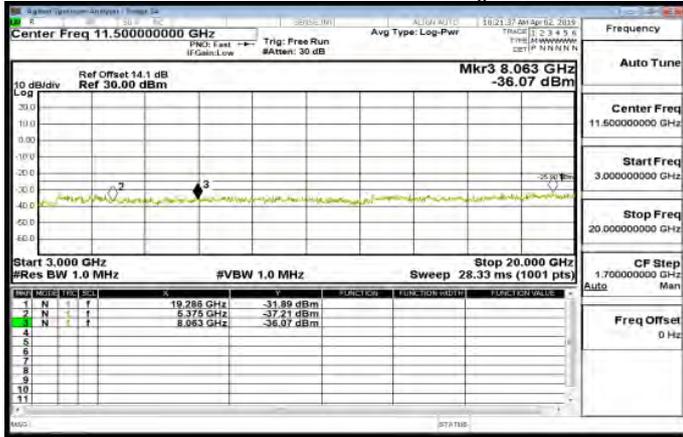
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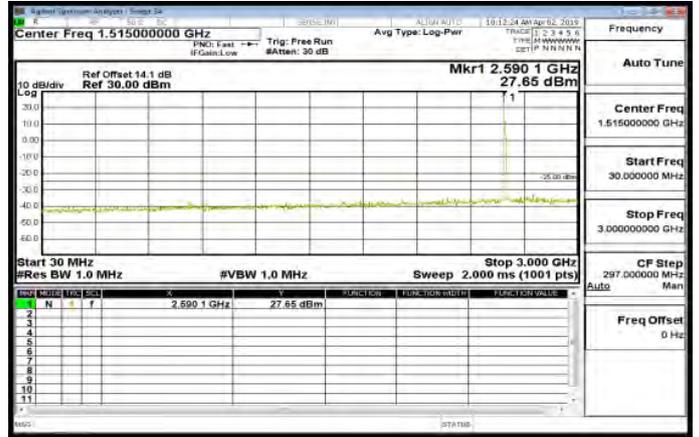
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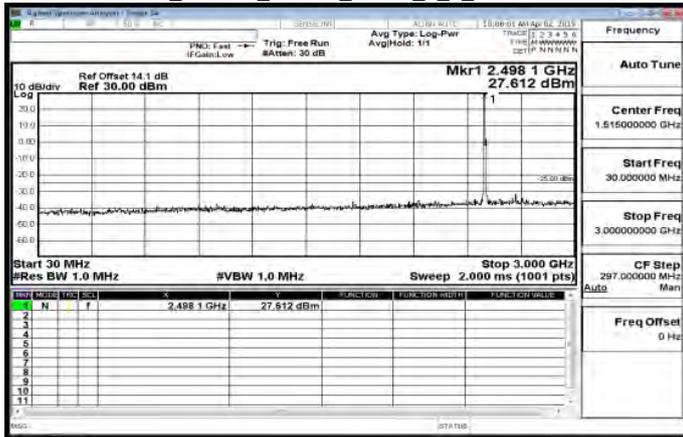
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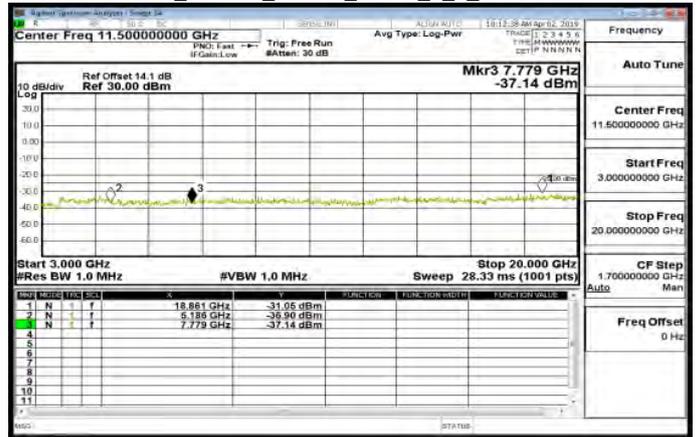
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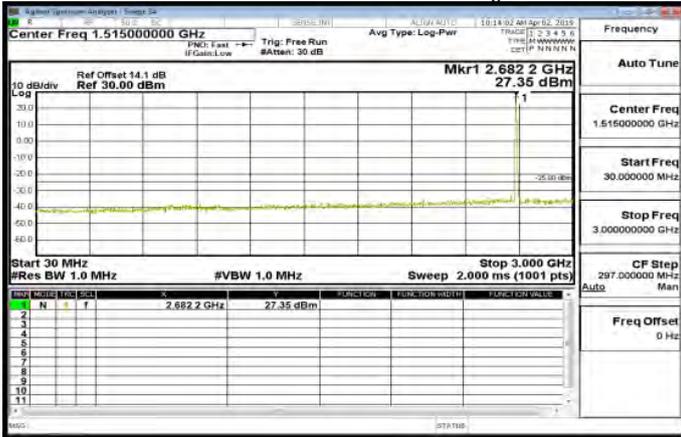


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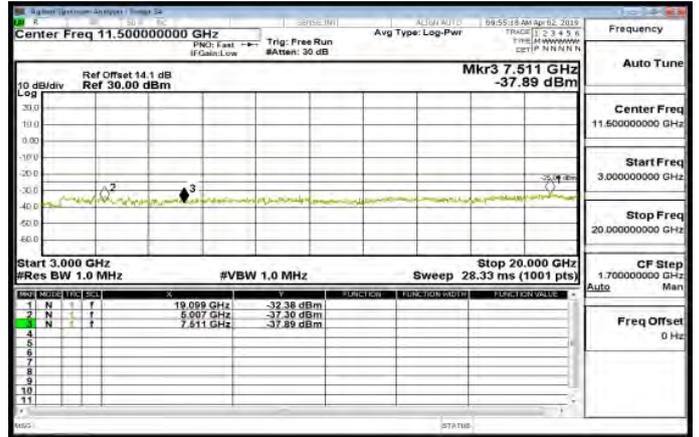
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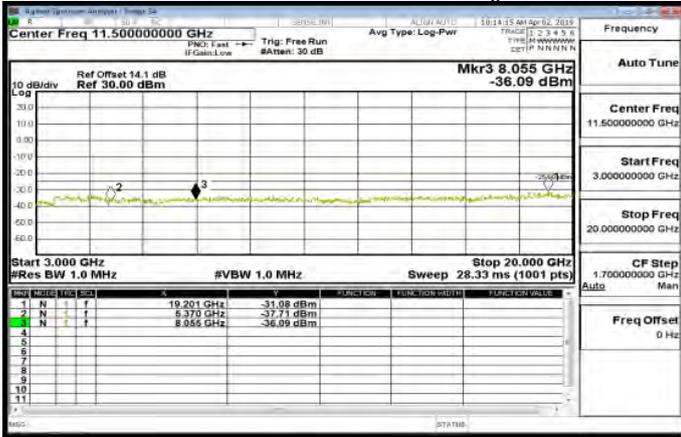
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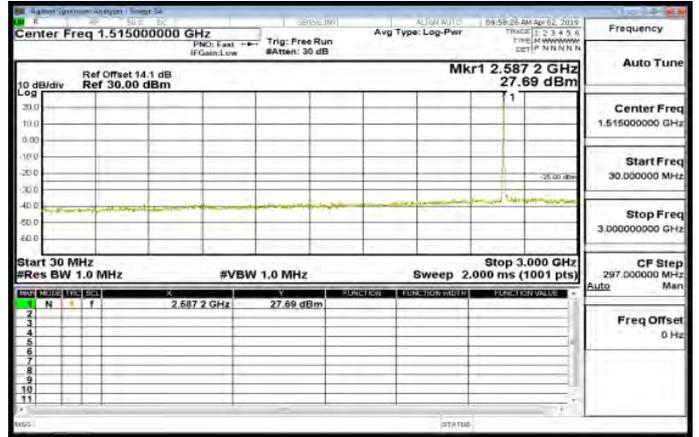
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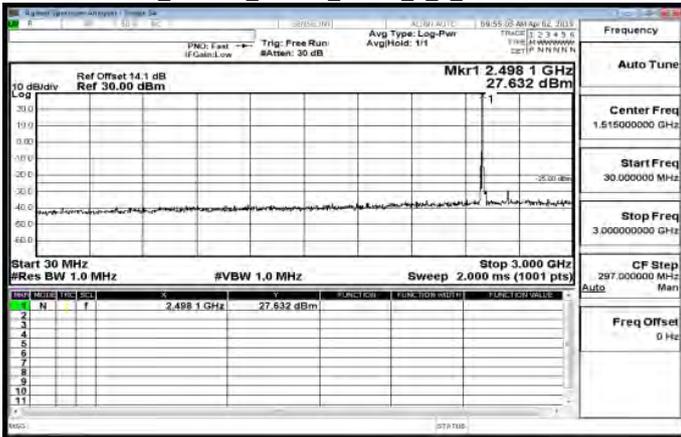
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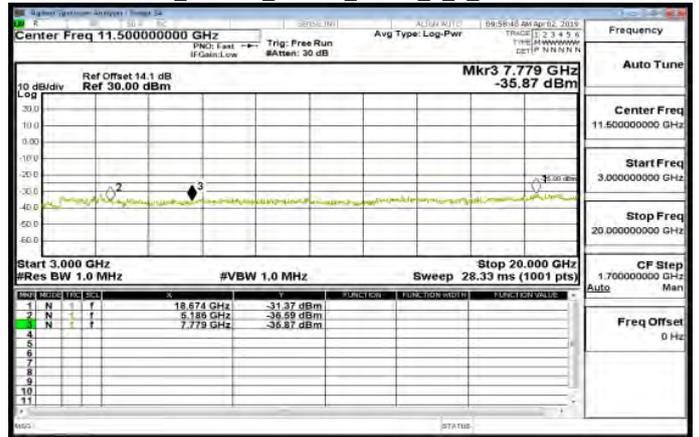
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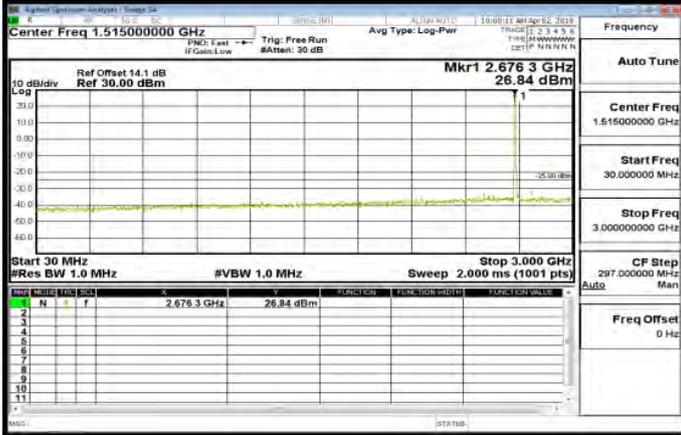


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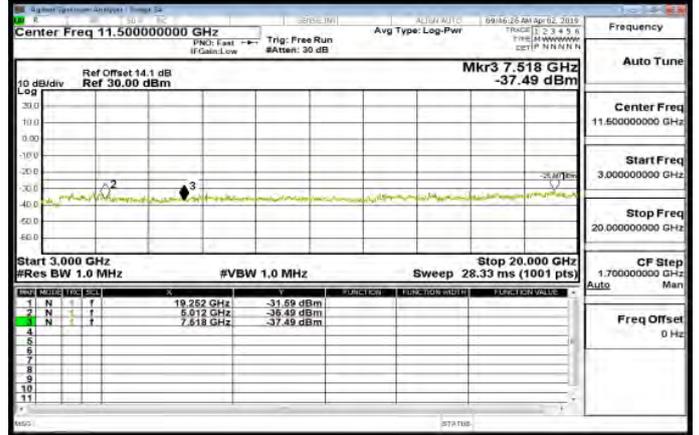
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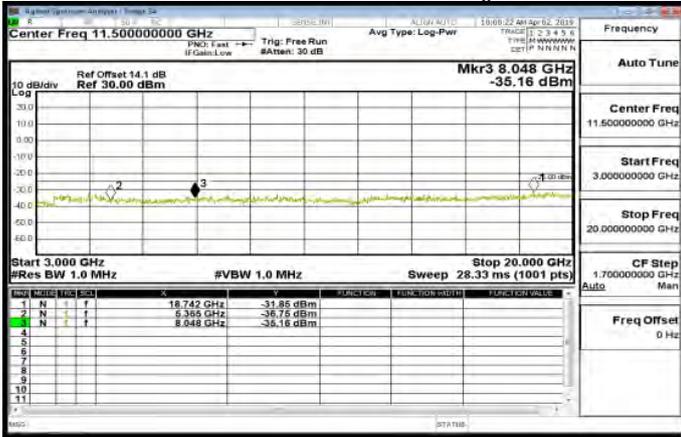
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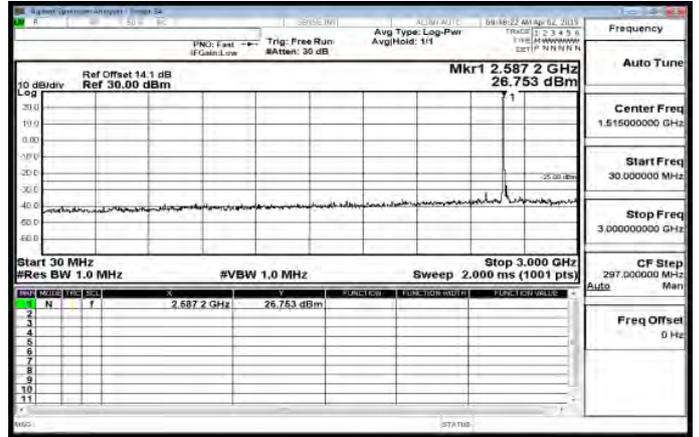
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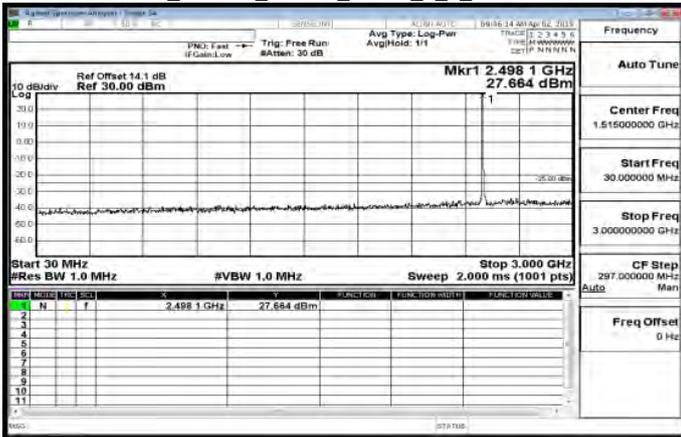
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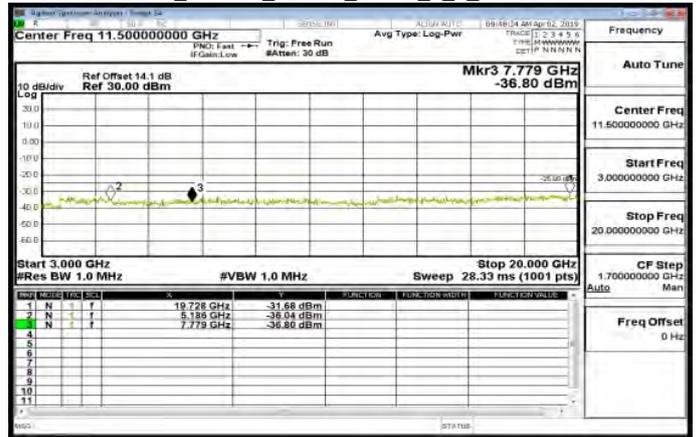
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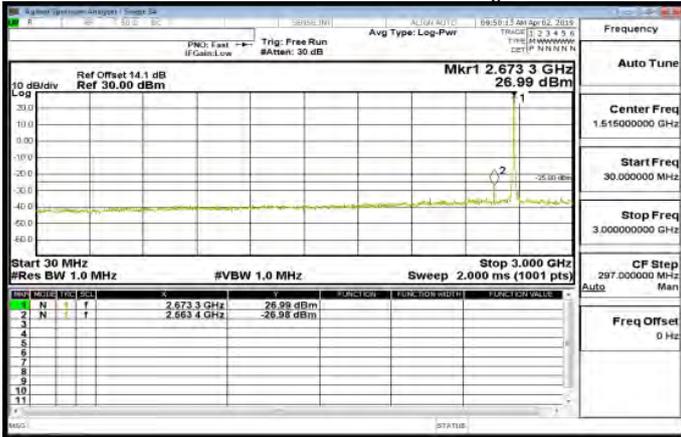


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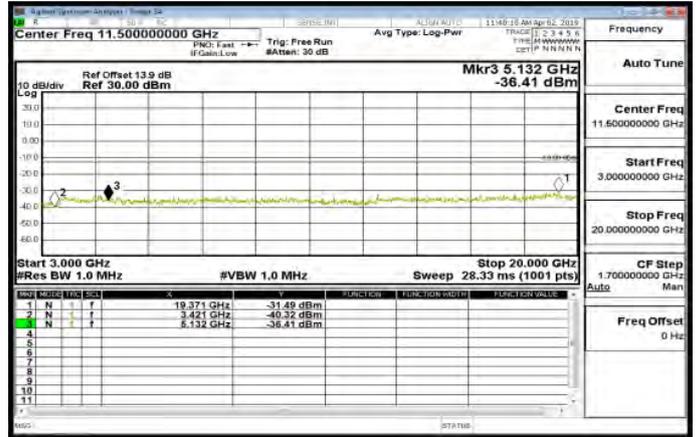
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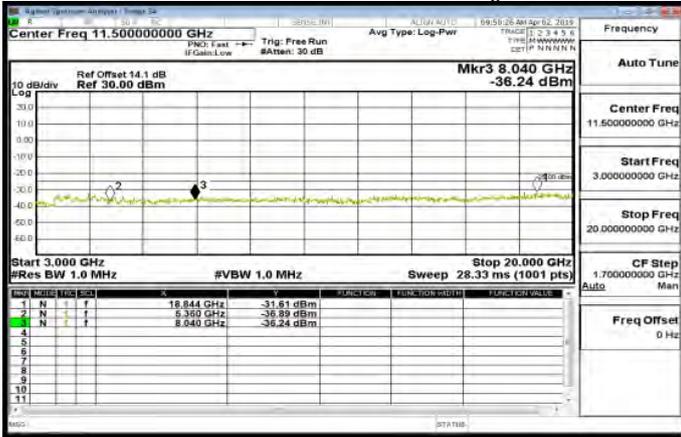
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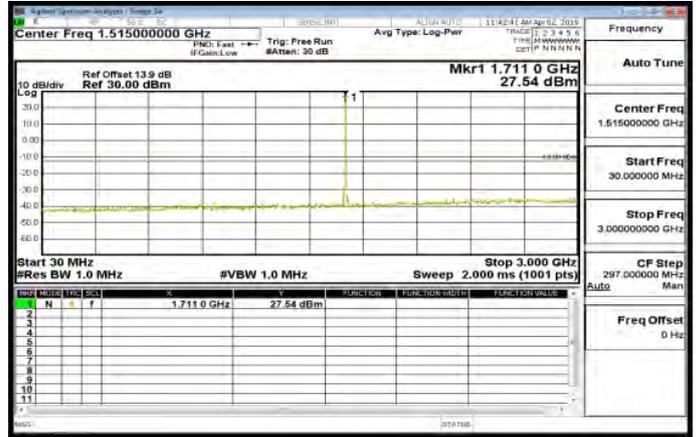
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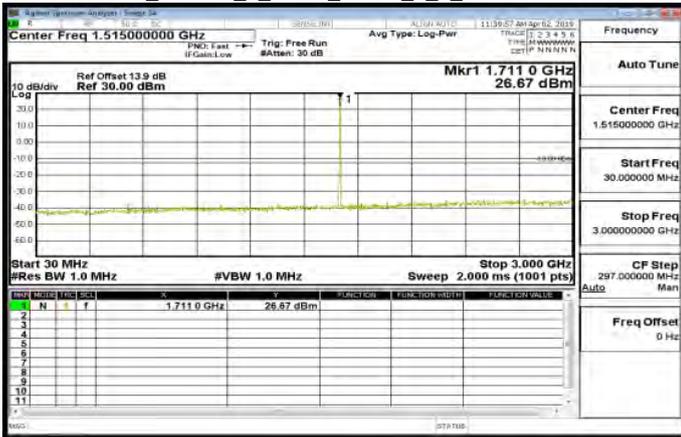
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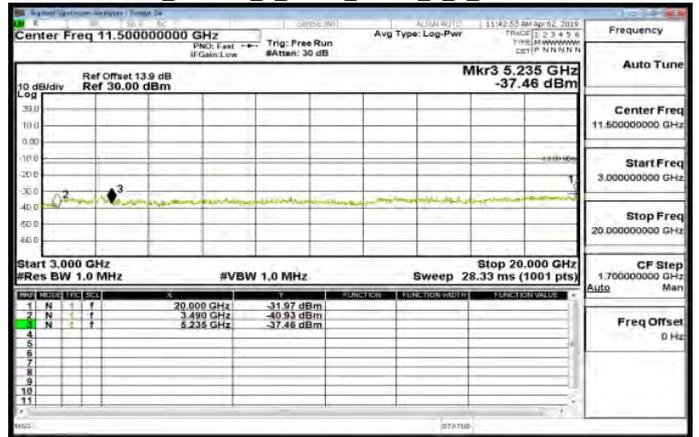
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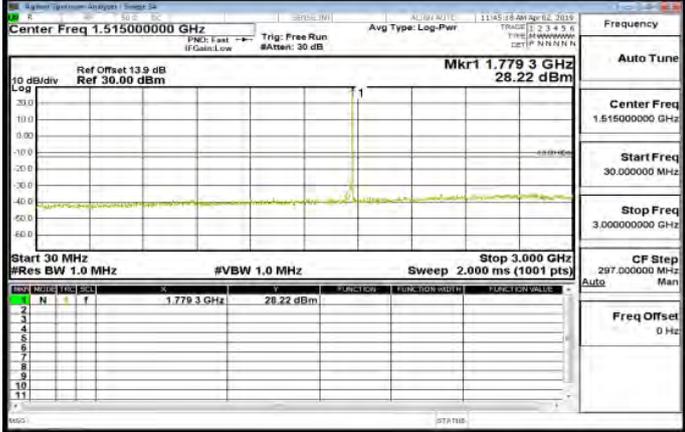


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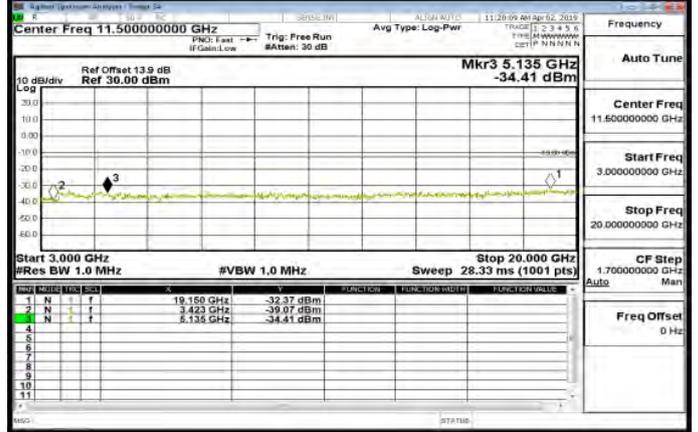
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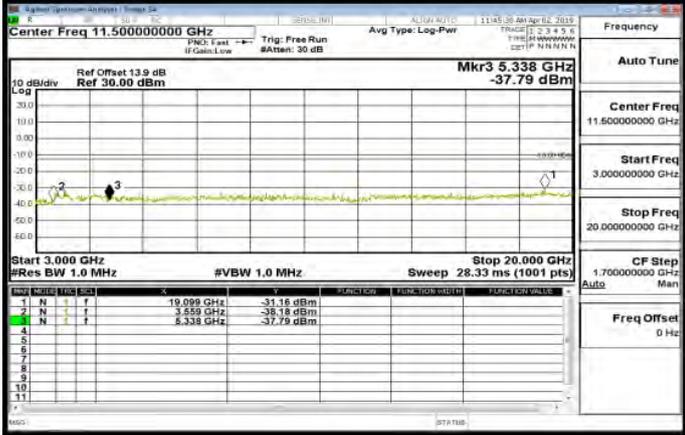
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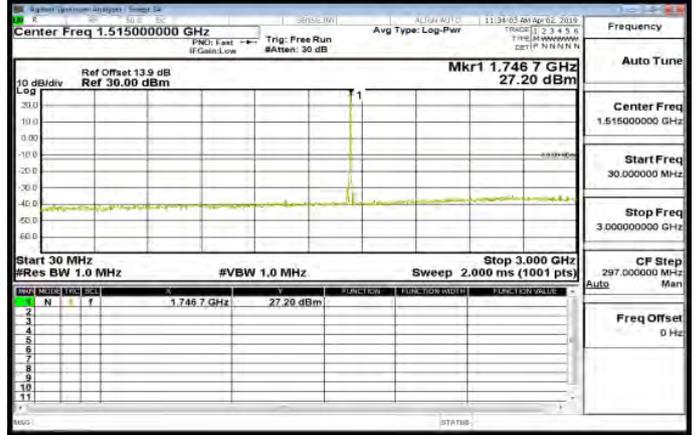
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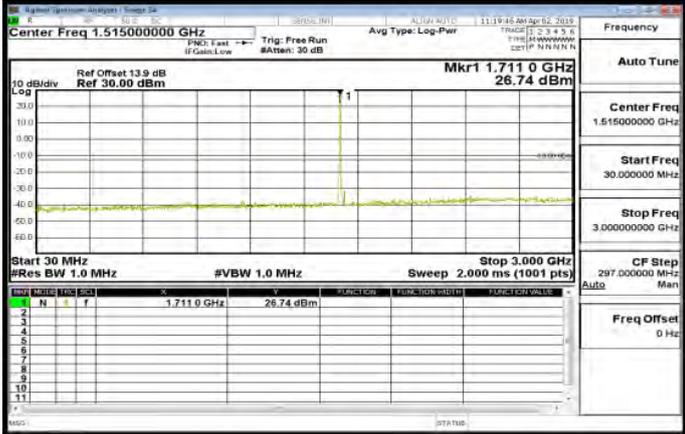
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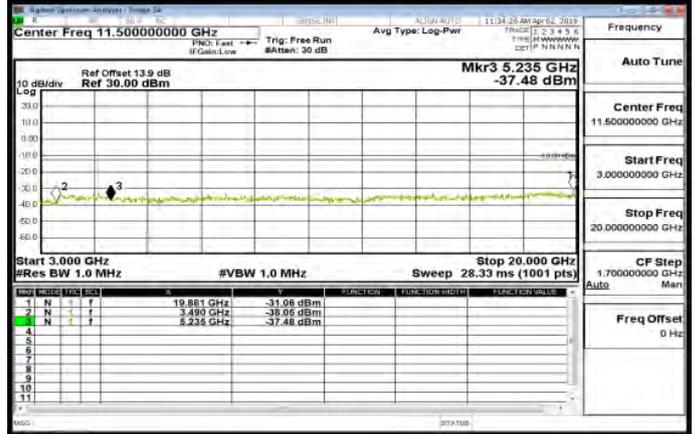
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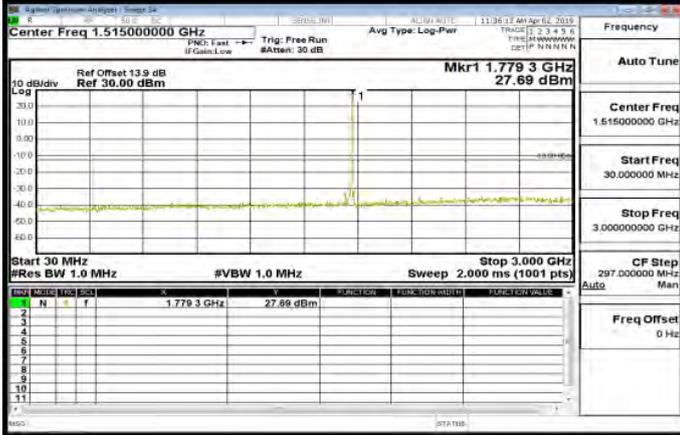


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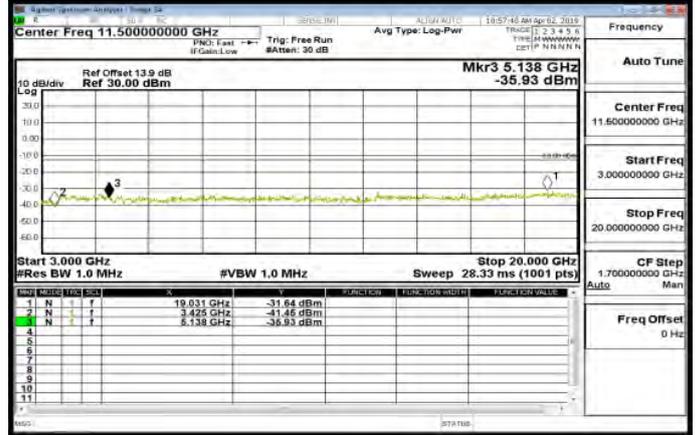
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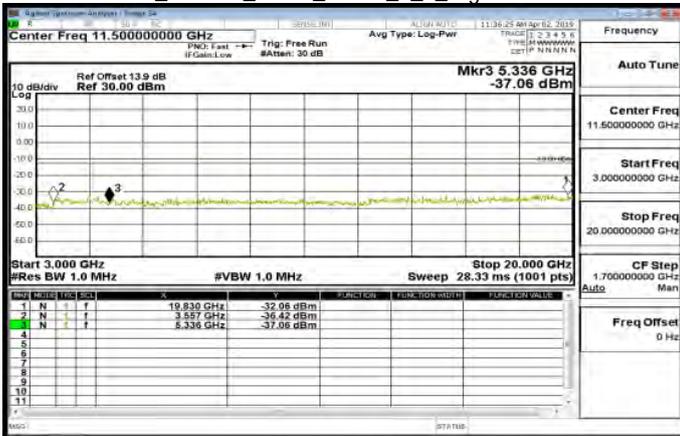
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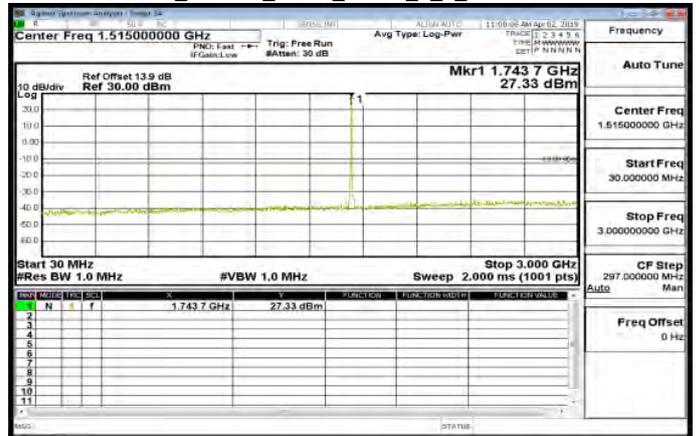
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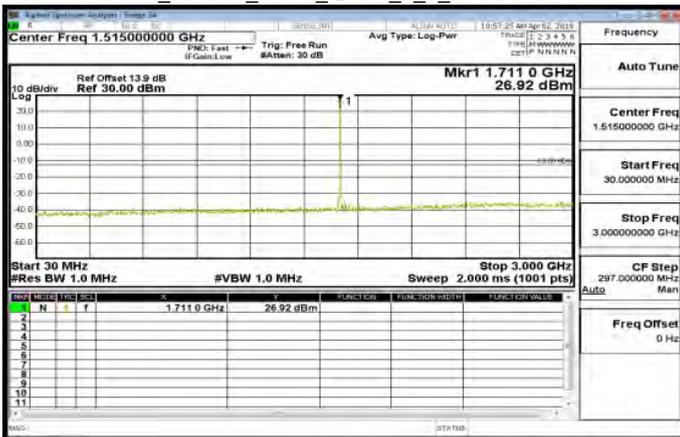
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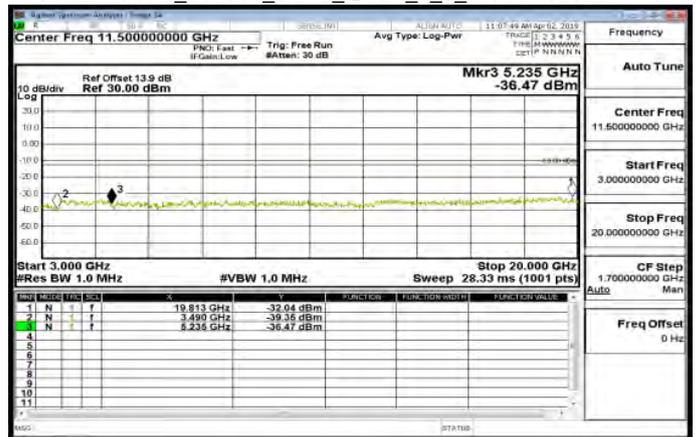
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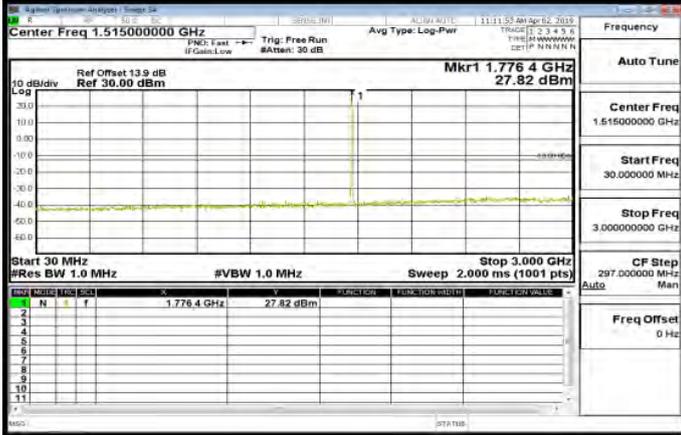


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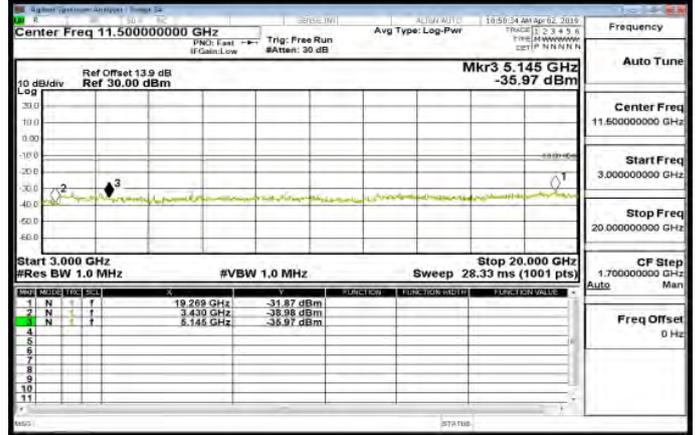
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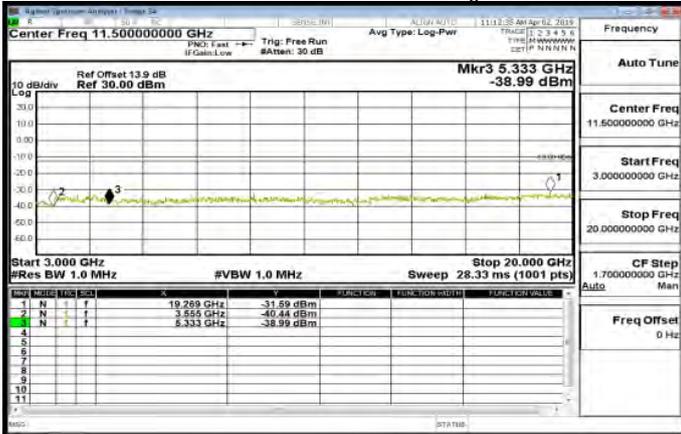
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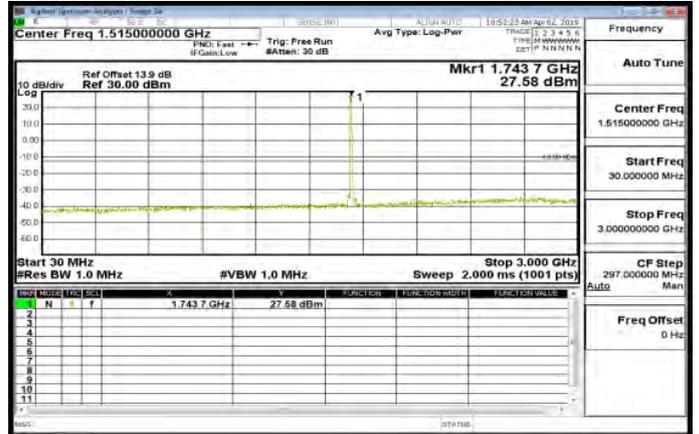
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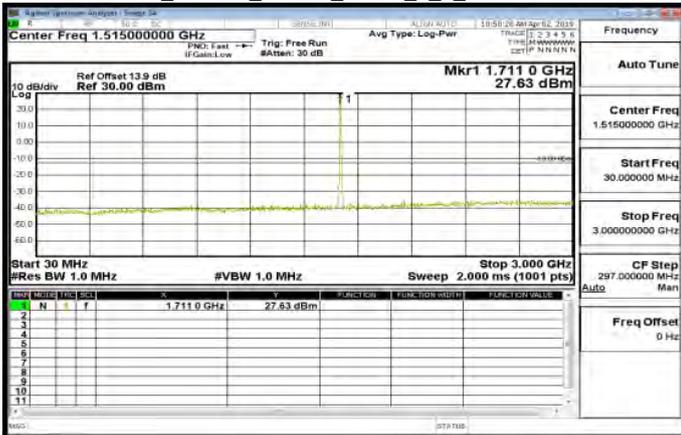
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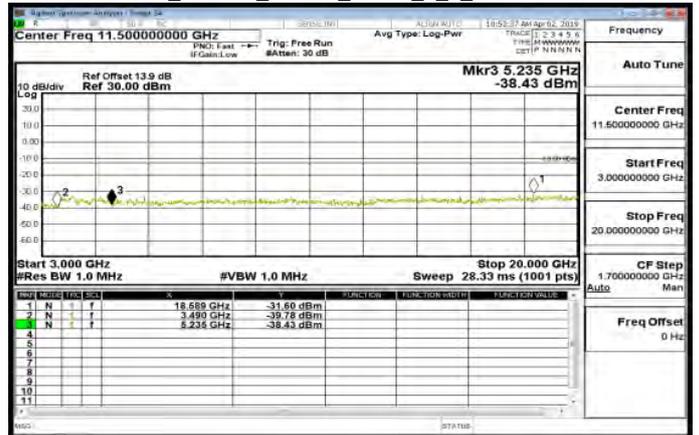
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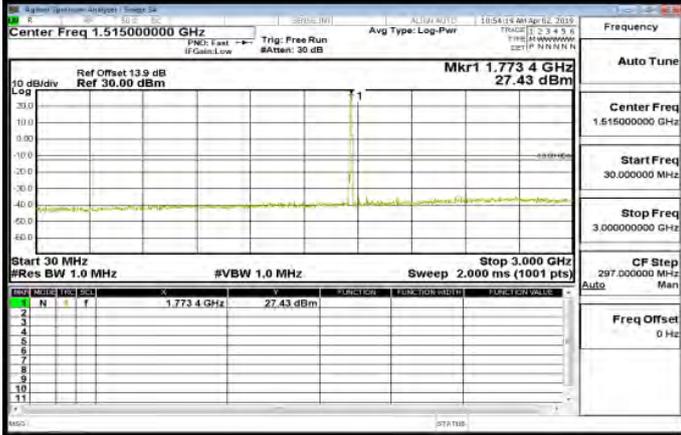
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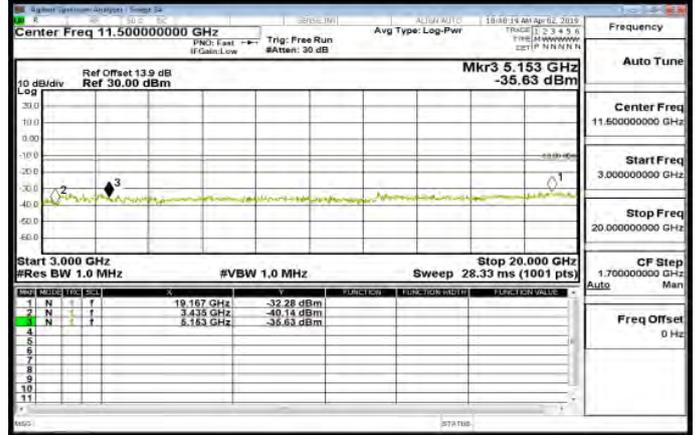
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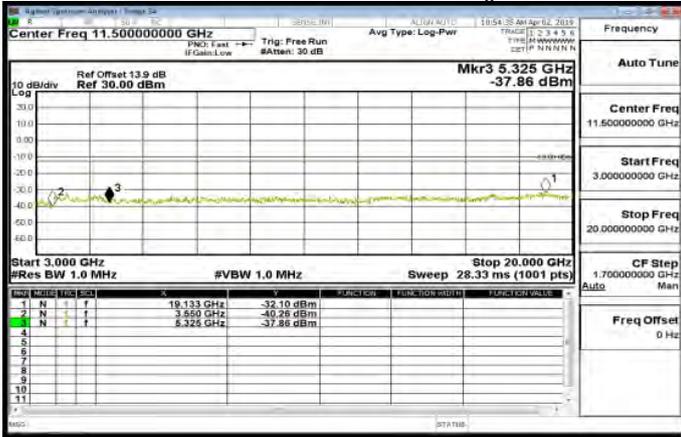
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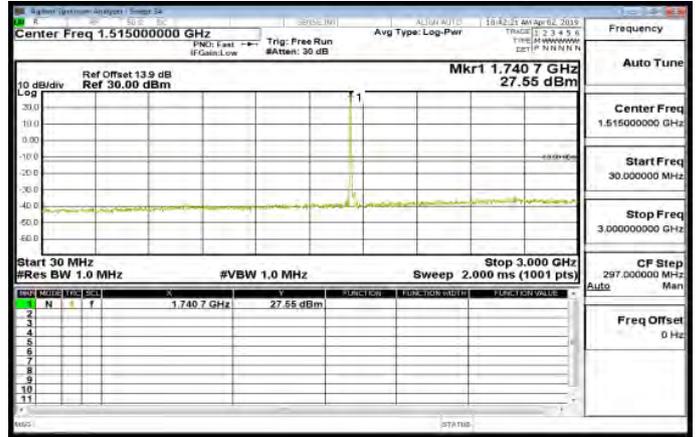
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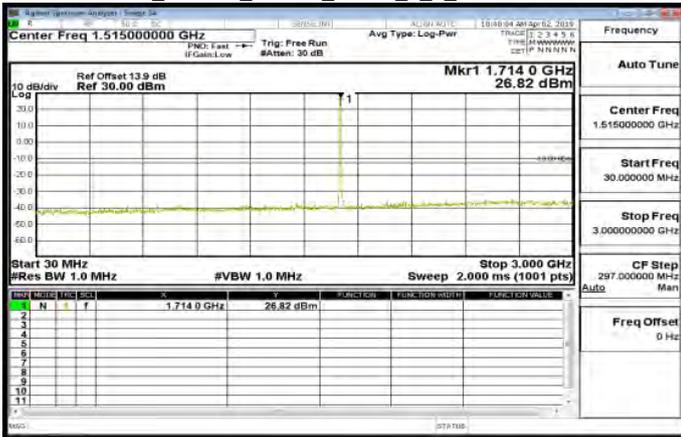
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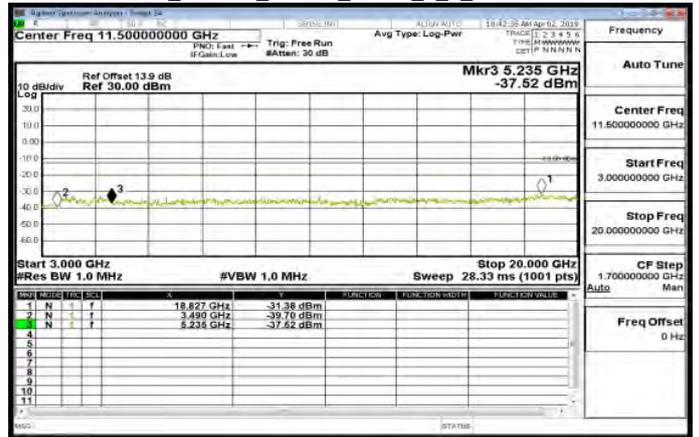
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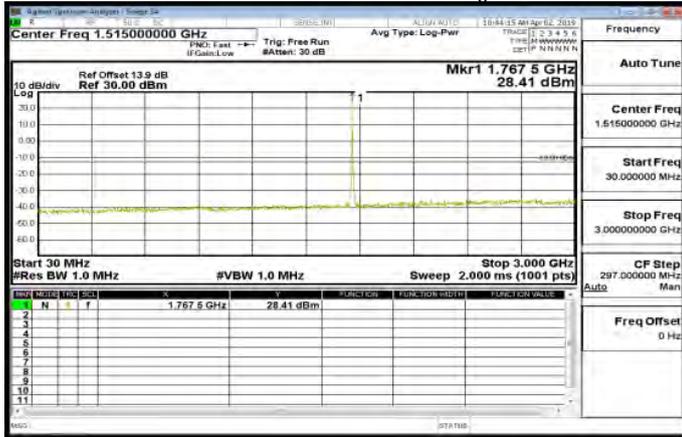


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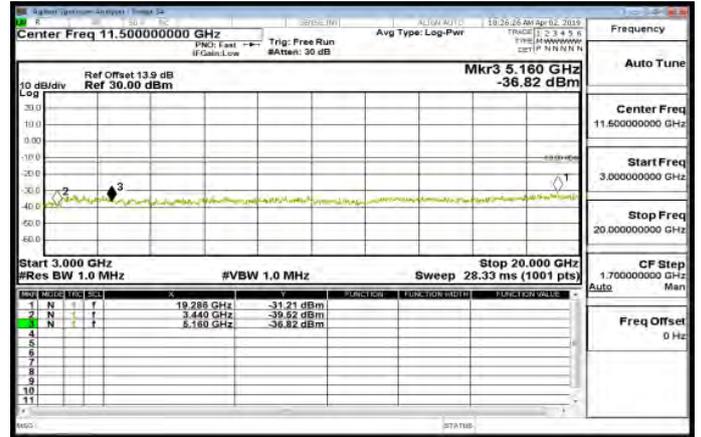
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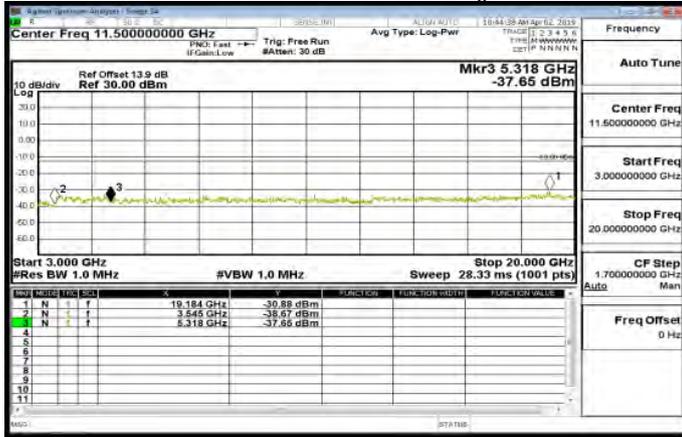
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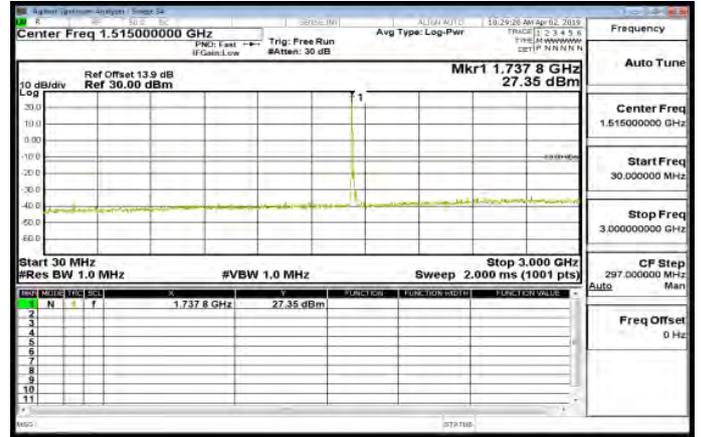
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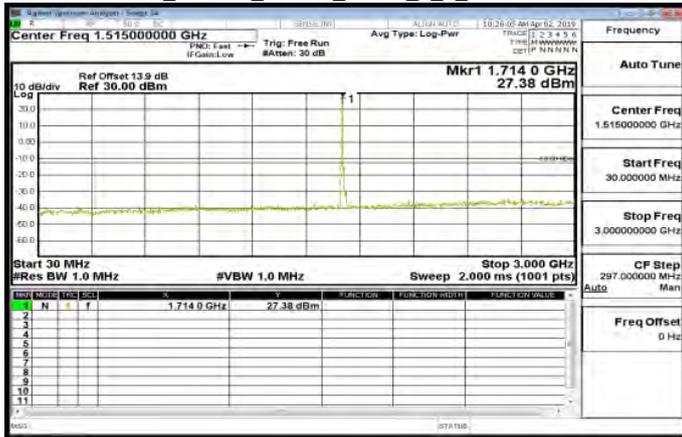
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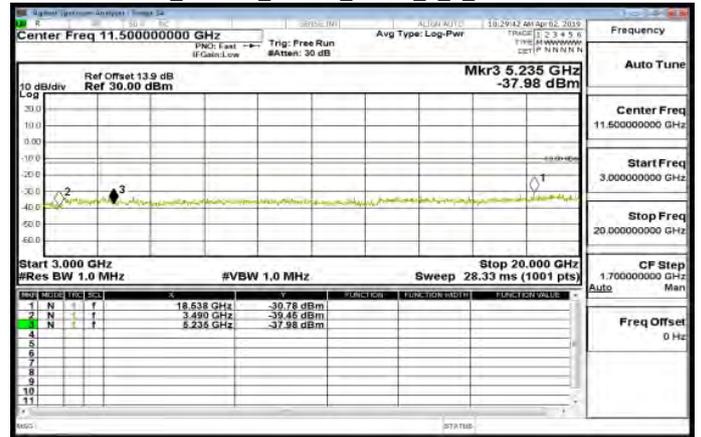
30MHz~3GHz_Band66_20MHz_QPSK_1_0_MidCH132322-1745



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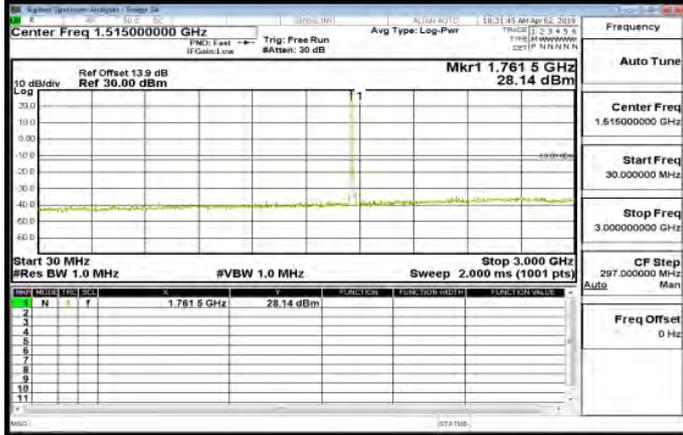


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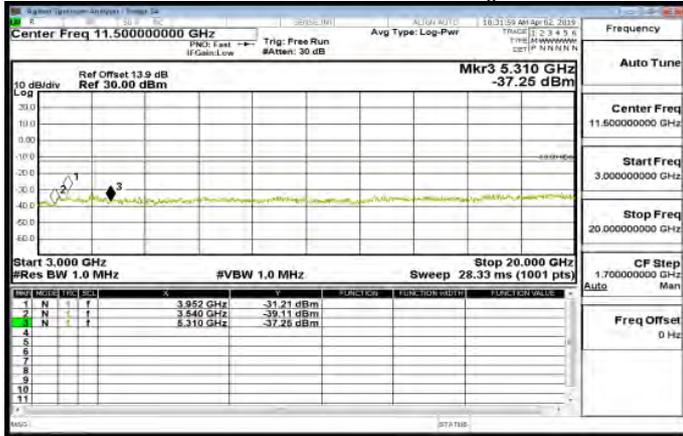
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30MHz-3GHz_Band66_20MHz_QPSK_1_0_HighCH132572-1770



3GHz-10GHz_Band66_20MHz_QPSK_1_0_HighCH132572-1770



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9. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

9.1. Standard Applicable

According to FCC §2.1053,

FCC §22.917(a) , §24.238(a) , §27.53 (h) , the magnitude of each spurious and harmonic emission that can be detected when the equipment is operated under the conditions specified in the instruction manual and/ or alignment procedure, shall not be less than $43 + 10 \log$ (mean output power in watts) dBc below the mean power output outside a license's frequency block (-13dBm).

§27.53 (c)

(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.

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.

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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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Table 2 — Unwanted Emissions for Mobile, Portable and Low-Power Fixed Subscriber Equipment

Frequency (MHz)	Attenuation (dB)
<2200	$43 + 10 \log_{10}(p)$
2200 - 2288	$70 + 10 \log_{10}(p)$
2288 - 2292	$67 + 10 \log_{10}(p)$
2292 - 2296	$61 + 10 \log_{10}(p)$
2296 - 2300	$55 + 10 \log_{10}(p)$
2300 - 2305	$43 + 10 \log_{10}(p)$
2305 - 2320	$43 + 10 \log_{10}(p)$ ^{Note}
2320 - 2324	$55 + 10 \log_{10}(p)$
2324 - 2328	$61 + 10 \log_{10}(p)$
2328 - 2337	$67 + 10 \log_{10}(p)$
2337 - 2341	$61 + 10 \log_{10}(p)$
2341 - 2345	$55 + 10 \log_{10}(p)$
2345 - 2360	$43 + 10 \log_{10}(p)$ ^{Note}
2360 - 2365	$43 + 10 \log_{10}(p)$
2365 - 2395	$70 + 10 \log_{10}(p)$
>2395	$43 + 10 \log_{10}(p)$

Note: Measured at the edges of the highest and lowest frequency range(s) in which the equipment is designed to operate. See Section 1.2 for the permitted frequency ranges for various equipment types.

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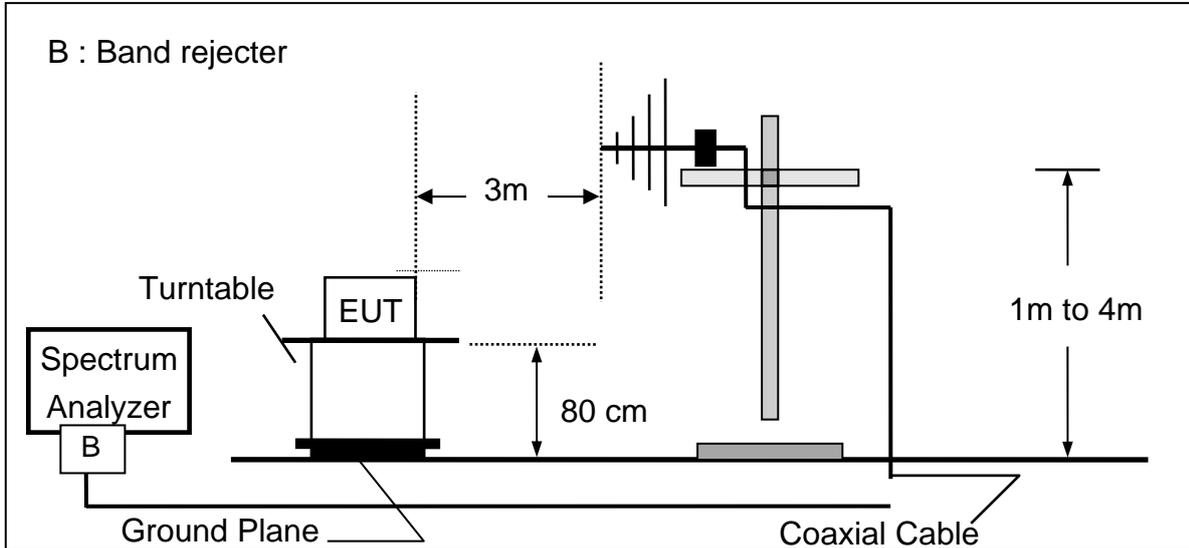
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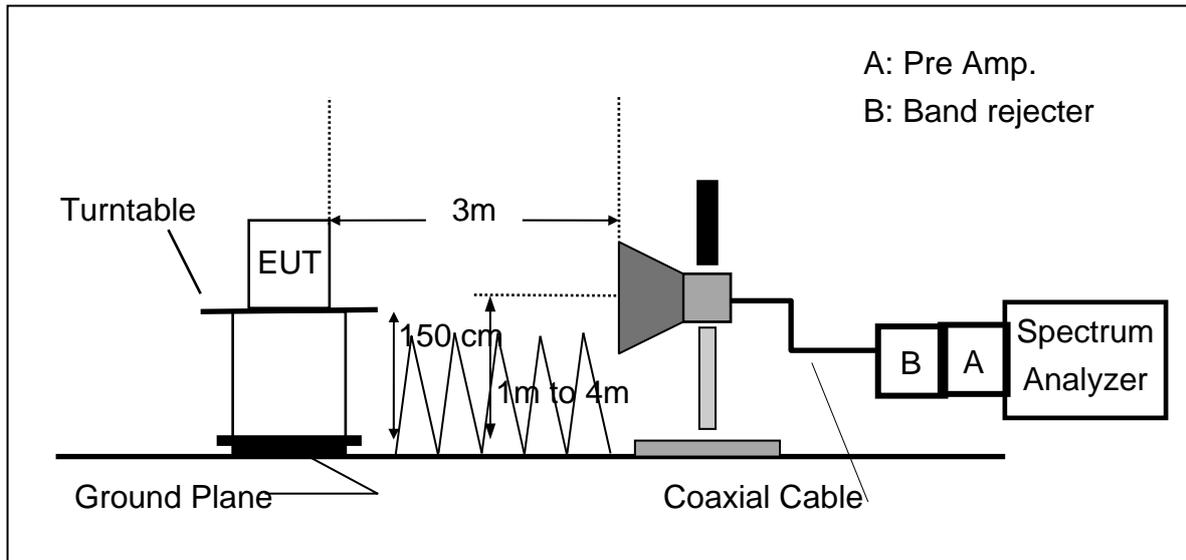
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9.2. EUT Setup

Radiated Emission Test Set-Up, Frequency Below 1000MHz



Radiated Emission Test Set-UP Frequency Over 1 GHz



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9.3. Measurement Procedure:

The EUT was placed on a non-conductive; the measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

The frequency range up to tenth harmonic was investigated for each of three fundamental frequencies (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.

The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.

$$\text{ERP (dBm)} = \text{SG Level(dBm)} + \text{Antenna Gain(dBd)} + \text{Cable Loss(dB)}$$

$$\text{EIRP (dBm)} = \text{SG Level(dBm)} + \text{Antenna Gain(dBi)} + \text{Cable Loss(dB)}$$

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9.4. Measurement Equipment Used:

966A Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
DC Power Supply	GWINSTEK	SPS-3610	GPE880163	01/14/2019	01/13/2020
PSA Series Spectrum Analyzer	Agilent	E4446A	MY46180323	05/31/2018	05/30/2019
Digital Thermo-Hygro Meter	WISEWIND	1206	D07	01/30/2019	01/29/2020
Pre-Amplifier	MITEQ	AMF-6F-260400-40-8P	985646	02/26/2019	02/25/2020
Pre-Amplifier	EMEC	EM330	60609	02/26/2019	02/25/2020
Pre-Amplifier	HP	8449B	3008A00965	02/26/2019	02/25/2020
Horn Antenna	Schwarzbeck	BBHA9170	184	12/27/2018	12/26/2019
Horn Antenna	ETS LINDGREN	3116	26370	12/26/2018	12/25/2019
Horn Antenna	SCHWARZBECK	BBHA 9120D	779	03/09/2019	03/08/2020
Bilog Antenna	Sunol Sciences	JB3	A030105	07/13/2018	07/12/2019
Bilog Antenna	Sunol Sciences	JB1	A052609	03/06/2019	03/05/2020
double Ridged Guide Horn Antenna	ETC	MCTD 1209	DRH13M02003	08/20/2018	08/19/2019
Loop Antenna	COM-POWER	AL-130	121051	03/22/2019	03/21/2020
Loop Antenna	ETS.LINDGREN	6502	148045	10/08/2018	10/07/2019
High Pass Filter	SOLVANG TECHNOLOGY INC.	STI15	9923	02/26/2019	02/25/2020
High Pass Filters	MICRO TRONICS	HPM13195	3	02/26/2019	02/25/2020
Band Reject Filters	MICRO TRONICS	BRM 50702	120	02/26/2019	02/25/2020
Digital Radio Communication Tester	R&S	CMU200	100535	09/17/2018	09/16/2019
Attenuator	Marvelous	MVE2213-10	RF80	02/26/2019	02/25/2020
Wireless Communication Test Set	Agilent	8960/E5515C	MY48363204	07/23/2018	07/22/2019
Wideband Radio Communication Tester	R&S	CMW 500	116875	04/20/2018	04/19/2019
Cable	HUBER SUHNER	SUCOFLEX 104PEA	25157	02/26/2019	02/25/2020
Cable	HUBER SUHNER	SUCOFLEX 104PEA	20995	02/26/2019	02/25/2020
Signal Generator	Agilent	N5182B	MY56200007	08/13/2018	08/12/2019
Software	e3 V6.11-20180413				

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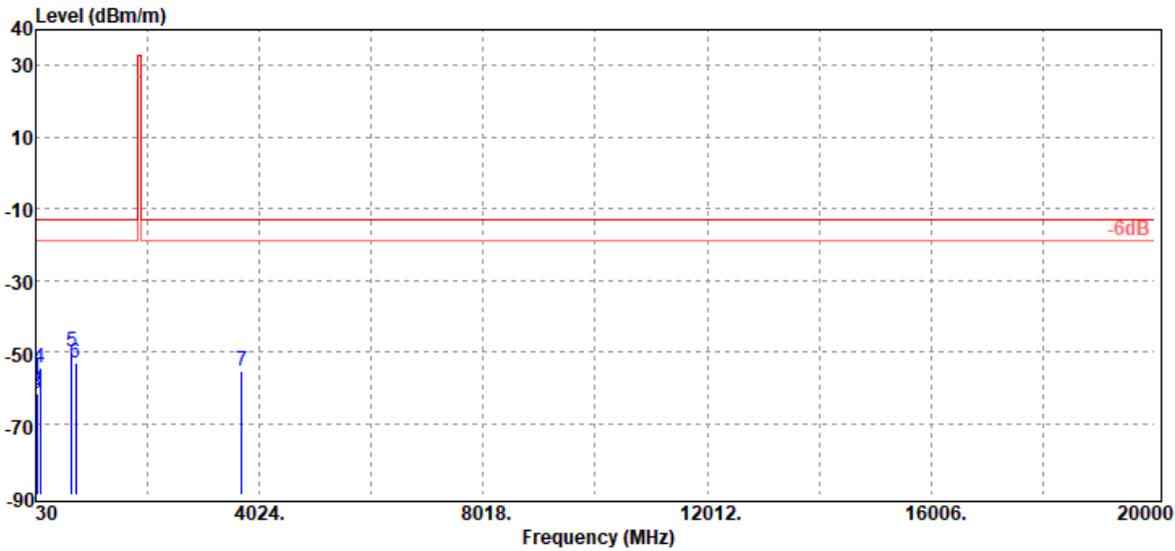
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9.5. Measurement Result:

Radiated Spurious Emission Measurement Result: WCDMA Band 2 Mode

Operation Band	:WCDMA B2	Test Date	:2019-04-02
Fundamental Frequency	:1852.4 MHz	Temp./Humi.	:25/60
Operation Mode	:TX CH LOW	Engineer	:Jerry
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL



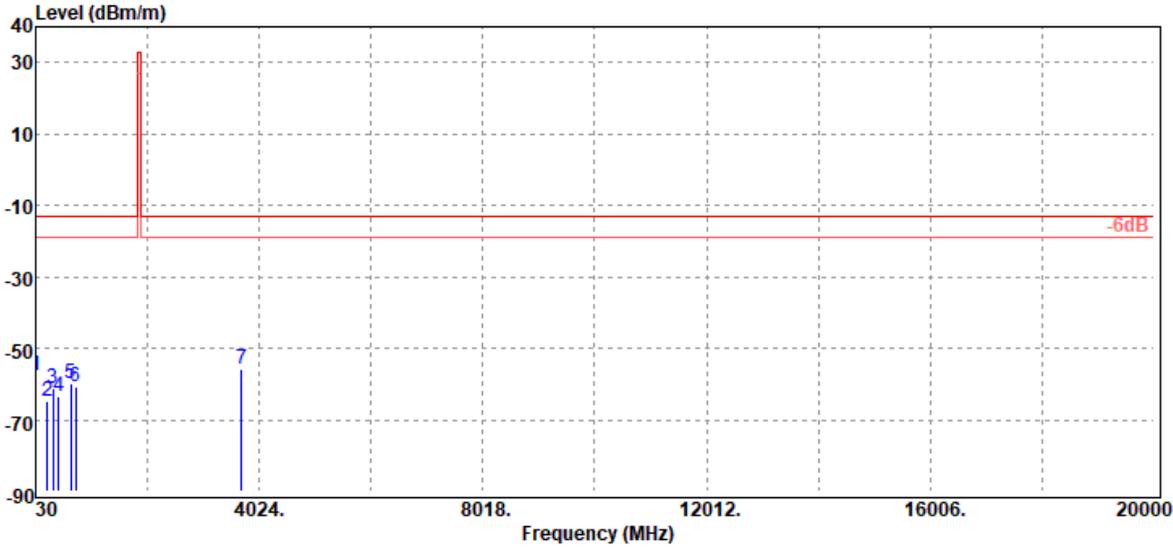
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-57.82	-27.32	-30.05	-0.45	-13.00	-44.82
39.70	-60.97	-40.1	-20.34	-0.53	-13.00	-47.97
51.34	-61.59	-49.43	-11.56	-0.60	-13.00	-48.59
114.39	-54.51	-43.25	-10.38	-0.88	-13.00	-41.51
666.32	-49.93	-46.3	-1.45	-2.18	-13.00	-36.93
745.86	-53.29	-49.62	-1.37	-2.30	-13.00	-40.29
3704.80	-55.27	-62.04	12.49	-5.72	-13.00	-42.27

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Operation Band :WCDMA B2
Fundamental Frequency :1852.4 MHz
Operation Mode :TX CH LOW
EUT Pol. :H Plan

Test Date :2019-04-02
Temp./Humi. :25/60
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.97	-57.65	-28.13	-29.06	-0.46	-13.00	-44.65
243.40	-64.81	-61.51	-2.01	-1.29	-13.00	-51.81
338.46	-61.36	-58.33	-1.51	-1.52	-13.00	-48.36
444.19	-63.33	-59.53	-2.05	-1.75	-13.00	-50.33
665.35	-59.88	-56.26	-1.45	-2.17	-13.00	-46.88
746.83	-60.80	-57.1	-1.39	-2.31	-13.00	-47.80
3704.80	-55.97	-62.74	12.49	-5.72	-13.00	-42.97

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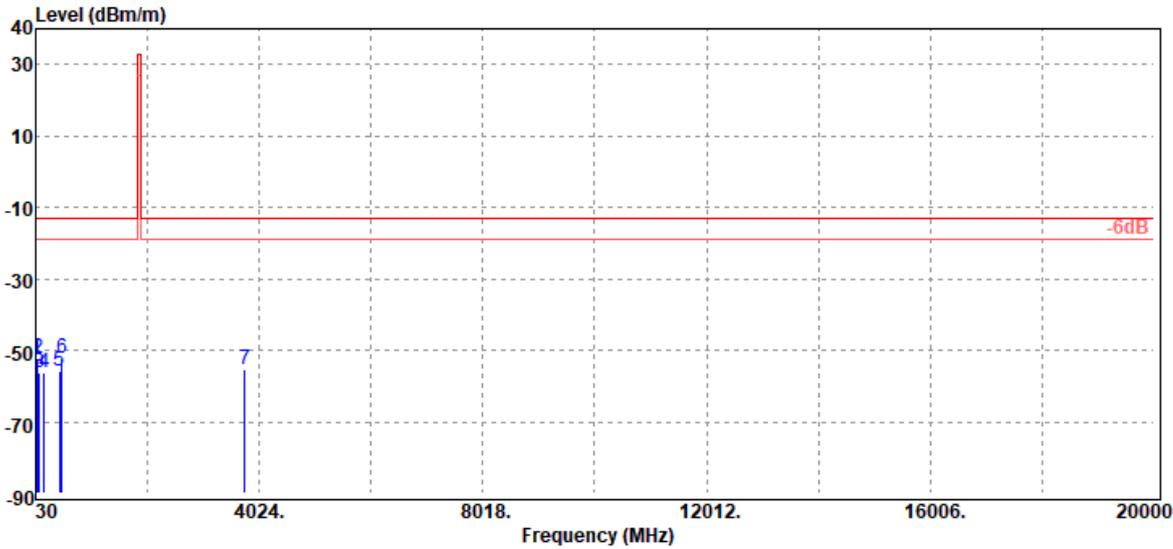
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Operation Band :WCDMA B2
Fundamental Frequency :1880 MHz
Operation Mode :TX CH MID
EUT Pol. :H Plan

Test Date :2019-04-02
Temp./Humi. :25/60
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-52.60	-22.1	-30.05	-0.45	-13.00	-39.60
71.71	-52.08	-41.9	-9.48	-0.70	-13.00	-39.08
101.78	-56.10	-46.56	-8.71	-0.83	-13.00	-43.10
184.23	-56.08	-50.85	-4.11	-1.12	-13.00	-43.08
450.98	-55.76	-51.95	-2.05	-1.76	-13.00	-42.76
497.54	-52.03	-48.17	-2.00	-1.86	-13.00	-39.03
3760.00	-55.46	-62.19	12.42	-5.69	-13.00	-42.46

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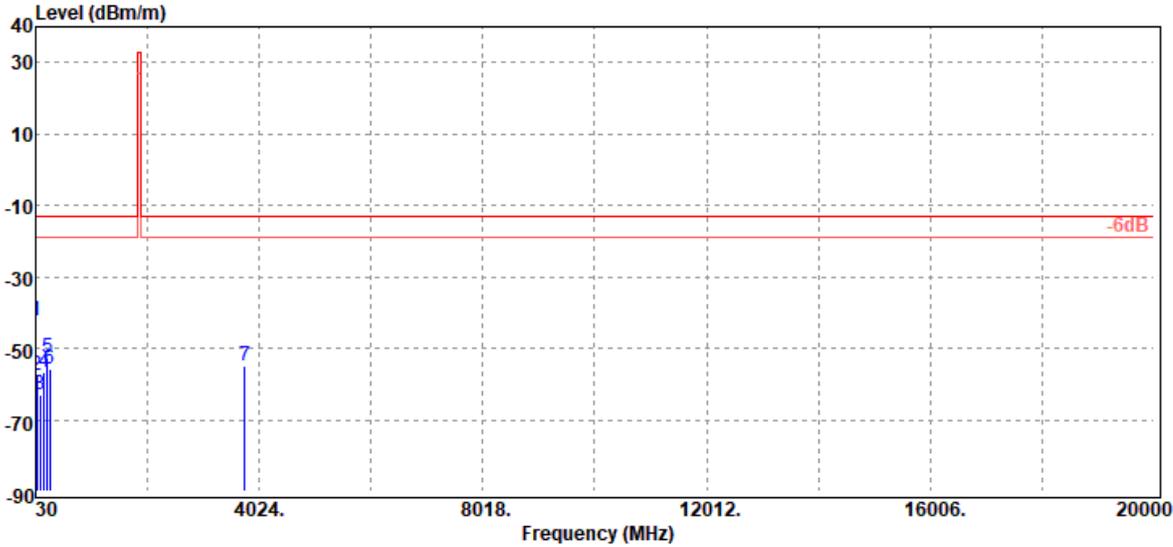
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Operation Band :WCDMA B2
Fundamental Frequency :1880 MHz
Operation Mode :TX CH MID
EUT Pol. :H Plan

Test Date :2019-04-02
Temp./Humi. :25/60
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-42.21	-11.71	-30.05	-0.45	-13.00	-29.21
49.40	-57.72	-44.78	-12.35	-0.59	-13.00	-44.72
105.66	-63.09	-52.83	-9.42	-0.84	-13.00	-50.09
182.29	-56.70	-51.32	-4.27	-1.11	-13.00	-43.70
246.31	-52.46	-49.27	-1.90	-1.29	-13.00	-39.46
286.08	-55.68	-51.9	-2.38	-1.40	-13.00	-42.68
3760.00	-54.80	-61.53	12.42	-5.69	-13.00	-41.80

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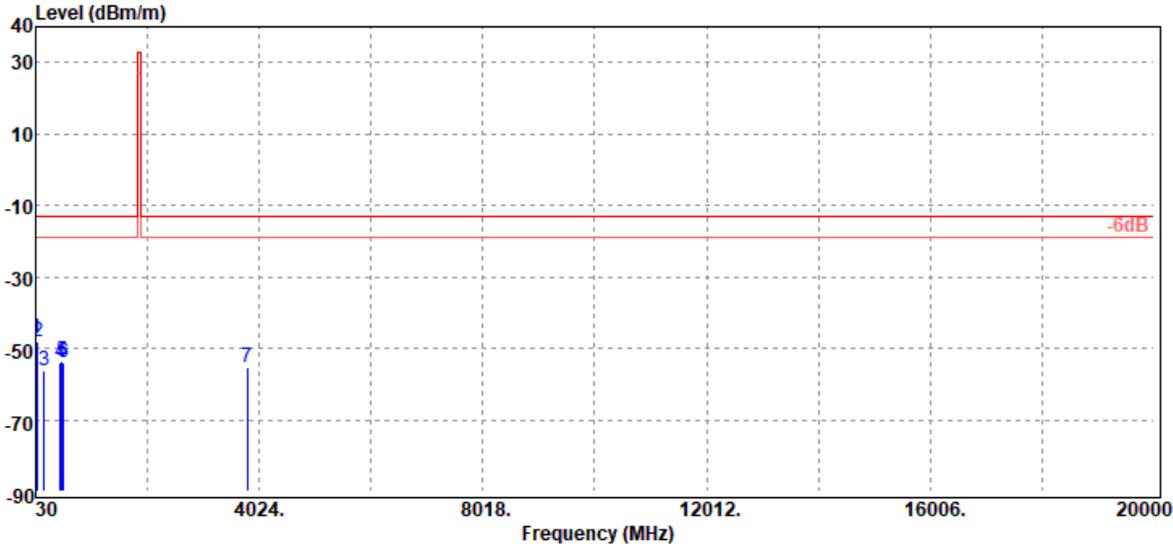
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Operation Band :WCDMA B2
Fundamental Frequency :1907.6 MHz
Operation Mode :TX CH HIGH
EUT Pol. :H Plan

Test Date :2019-04-02
Temp./Humi. :25/60
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
31.94	-47.10	-18.53	-28.10	-0.47	-13.00	-34.10
72.68	-48.12	-38.04	-9.38	-0.70	-13.00	-35.12
182.29	-56.24	-50.86	-4.27	-1.11	-13.00	-43.24
466.50	-54.04	-49.97	-2.28	-1.79	-13.00	-41.04
498.51	-53.52	-49.67	-1.98	-1.87	-13.00	-40.52
528.58	-54.10	-50.83	-1.35	-1.92	-13.00	-41.10
3815.20	-55.31	-62.02	12.47	-5.76	-13.00	-42.31

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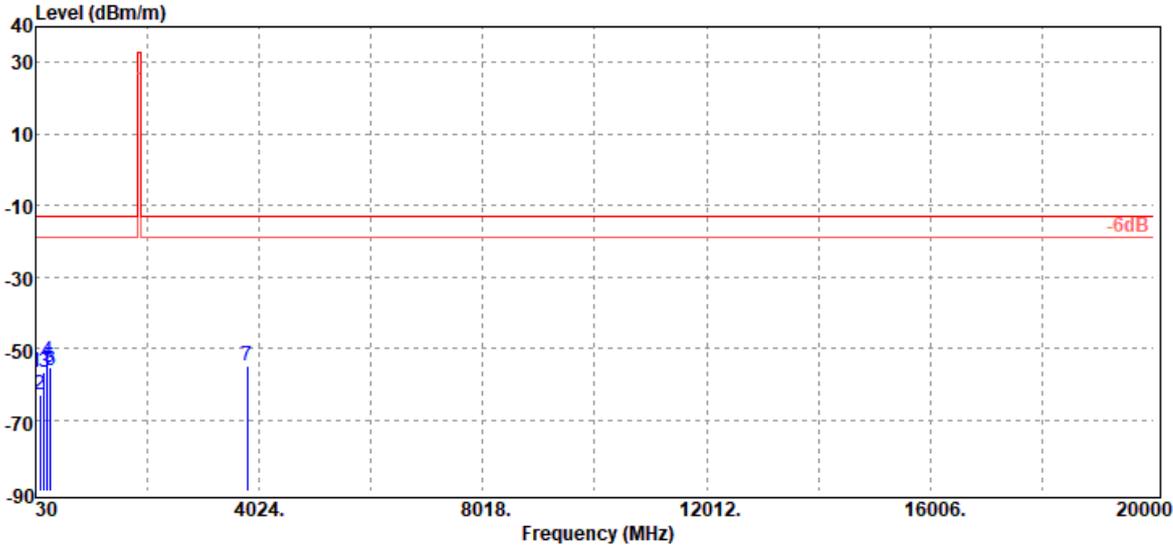
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Operation Band :WCDMA B2
Fundamental Frequency :1907.6 MHz
Operation Mode :TX CH HIGH
EUT Pol. :H Plan

Test Date :2019-04-02
Temp./Humi. :25/60
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-56.88	-26.38	-30.05	-0.45	-13.00	-43.88
104.69	-62.85	-52.72	-9.29	-0.84	-13.00	-49.85
184.23	-56.59	-51.36	-4.11	-1.12	-13.00	-43.59
243.40	-53.62	-50.32	-2.01	-1.29	-13.00	-40.62
285.11	-55.35	-51.51	-2.44	-1.40	-13.00	-42.35
294.81	-56.15	-52.58	-2.15	-1.42	-13.00	-43.15
3815.20	-54.99	-61.7	12.47	-5.76	-13.00	-41.99

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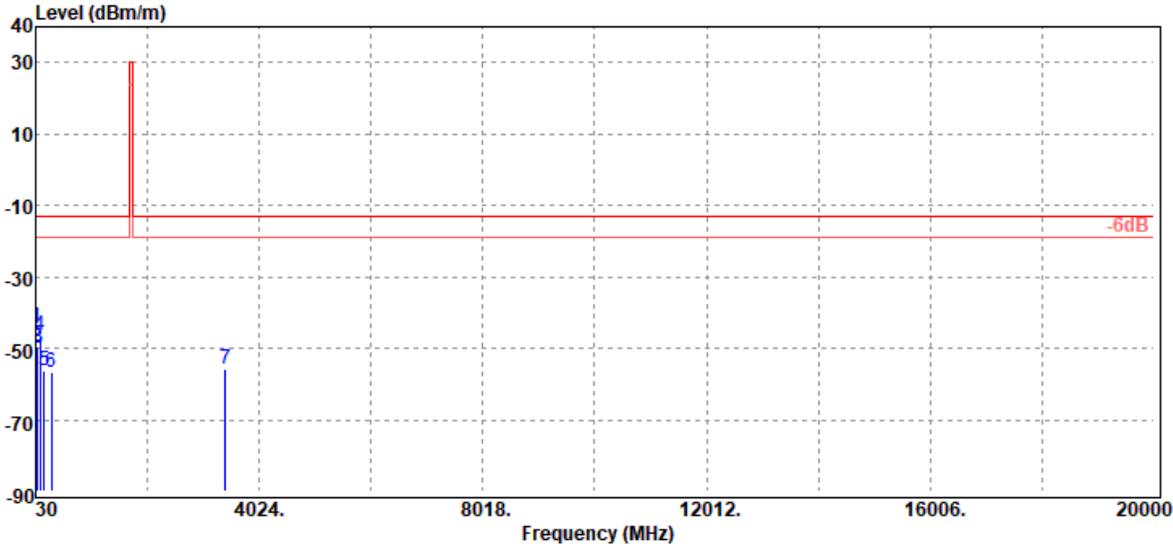
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Radiated Spurious Emission Measurement Result: WCDMA Band 4 Mode

Operation Band	:WCDMA B4	Test Date	:2019-04-02
Fundamental Frequency	:1712.4 MHz	Temp./Humi.	:25/60
Operation Mode	:TX CH LOW	Engineer	:Jerry
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL



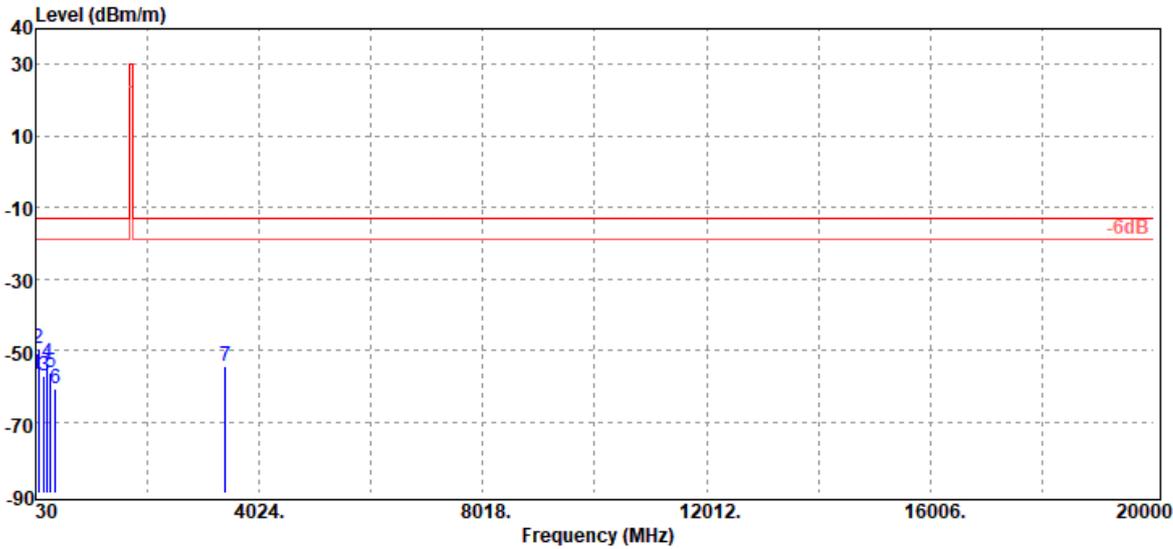
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
33.88	-44.05	-17.3	-26.26	-0.49	-13.00	-31.05
51.34	-49.49	-37.33	-11.56	-0.60	-13.00	-36.49
70.74	-49.87	-39.61	-9.57	-0.69	-13.00	-36.87
109.54	-46.55	-35.89	-9.80	-0.86	-13.00	-33.55
184.23	-56.35	-51.12	-4.11	-1.12	-13.00	-43.35
315.18	-56.66	-53.24	-1.95	-1.47	-13.00	-43.66
3424.80	-55.85	-63.12	12.75	-5.48	-13.00	-42.85

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Operation Band :WCDMA B4
Fundamental Frequency :1712.4 MHz
Operation Mode :TX CH LOW
EUT Pol. :H Plan

Test Date :2019-04-02
Temp./Humi. :25/60
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-56.63	-26.13	-30.05	-0.45	-13.00	-43.63
80.44	-49.67	-40.53	-8.40	-0.74	-13.00	-36.67
180.35	-57.10	-51.57	-4.42	-1.11	-13.00	-44.10
242.43	-53.71	-50.38	-2.05	-1.28	-13.00	-40.71
291.90	-56.13	-52.57	-2.15	-1.41	-13.00	-43.13
379.20	-60.68	-57.5	-1.57	-1.61	-13.00	-47.68
3424.80	-54.53	-61.8	12.75	-5.48	-13.00	-41.53

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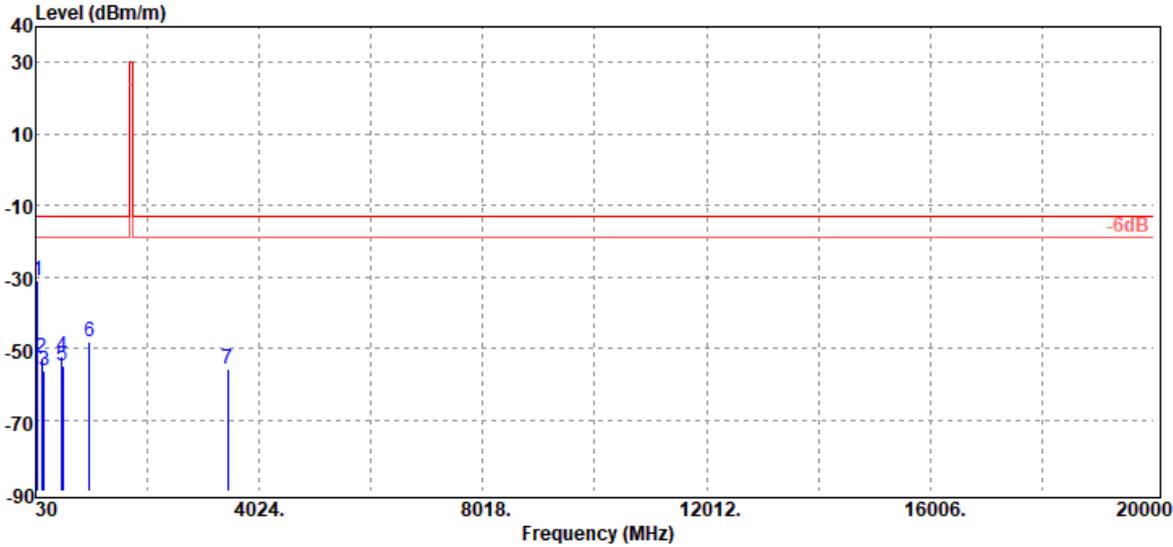
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Member of the SGS Group (SGS SA)

Operation Band :WCDMA B4
Fundamental Frequency :1732.6 MHz
Operation Mode :TX CH MID
EUT Pol. :H Plan

Test Date :2019-04-02
Temp./Humi. :25/60
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



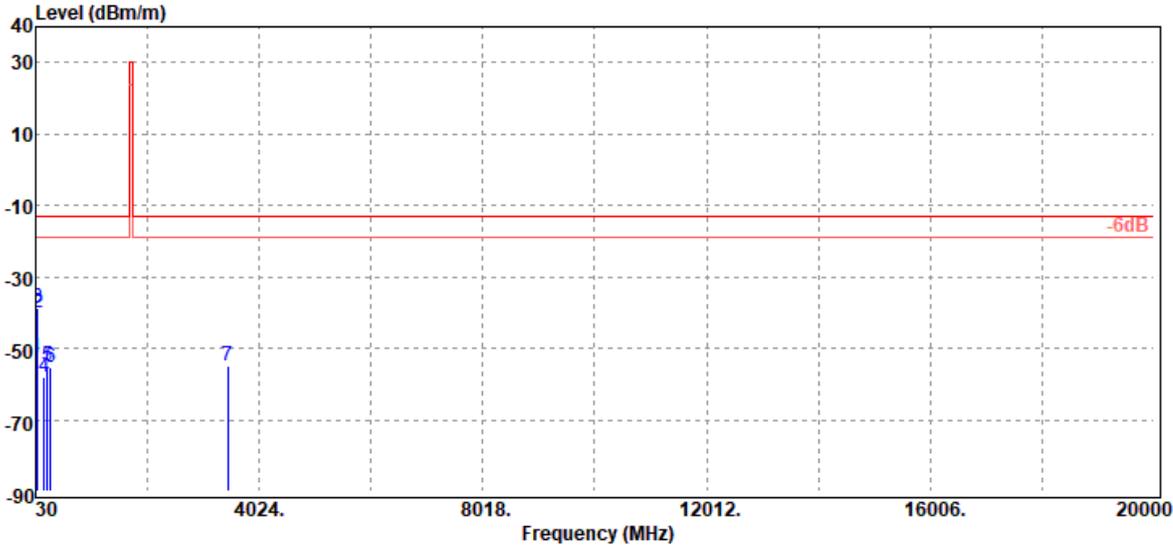
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
68.80	-30.98	-20.53	-9.77	-0.68	-13.00	-17.98
141.55	-52.76	-43.51	-8.27	-0.98	-13.00	-39.76
183.26	-56.12	-50.81	-4.19	-1.12	-13.00	-43.12
497.54	-52.40	-48.54	-2.00	-1.86	-13.00	-39.40
518.88	-54.81	-51.45	-1.45	-1.91	-13.00	-41.81
998.06	-48.12	-44.03	-1.41	-2.68	-13.00	-35.12
3465.20	-55.89	-63.05	12.64	-5.48	-13.00	-42.89

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Operation Band :WCDMA B4
Fundamental Frequency :1732.6 MHz
Operation Mode :TX CH MID
EUT Pol. :H Plan

Test Date :2019-04-02
Temp./Humi. :25/60
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



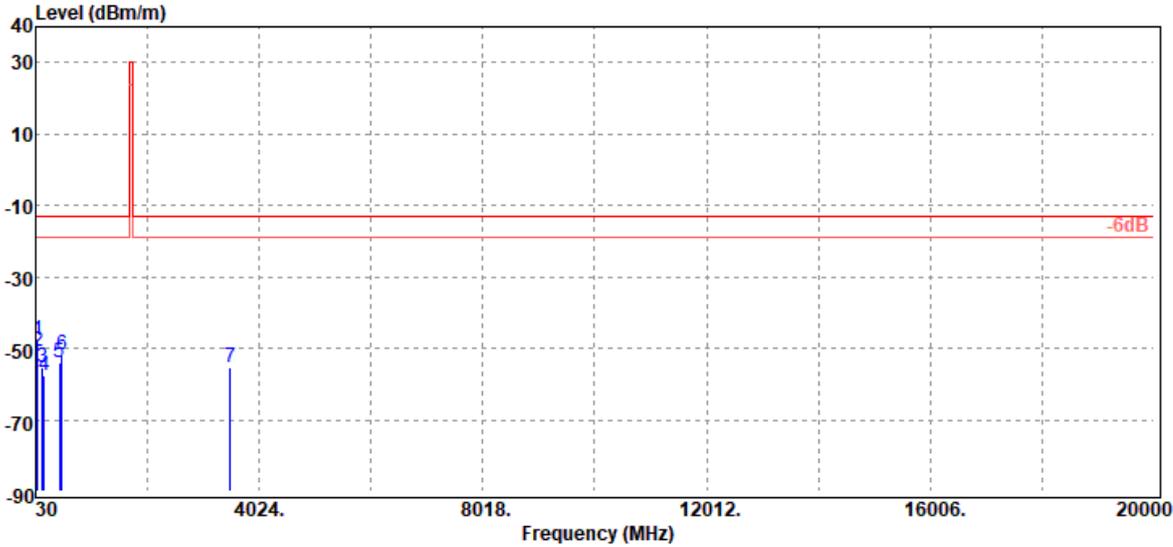
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
44.55	-52.62	-36.22	-15.84	-0.56	-13.00	-39.62
64.92	-39.96	-29.14	-10.15	-0.67	-13.00	-26.96
71.71	-38.77	-28.59	-9.48	-0.70	-13.00	-25.77
184.23	-58.05	-52.82	-4.11	-1.12	-13.00	-45.05
241.46	-54.80	-51.43	-2.09	-1.28	-13.00	-41.80
290.93	-55.32	-51.76	-2.15	-1.41	-13.00	-42.32
3465.20	-54.87	-62.03	12.64	-5.48	-13.00	-41.87

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Operation Band :WCDMA B4
Fundamental Frequency :1752.6 MHz
Operation Mode :TX CH HIGH
EUT Pol. :H Plan

Test Date :2019-04-02
Temp./Humi. :25/60
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



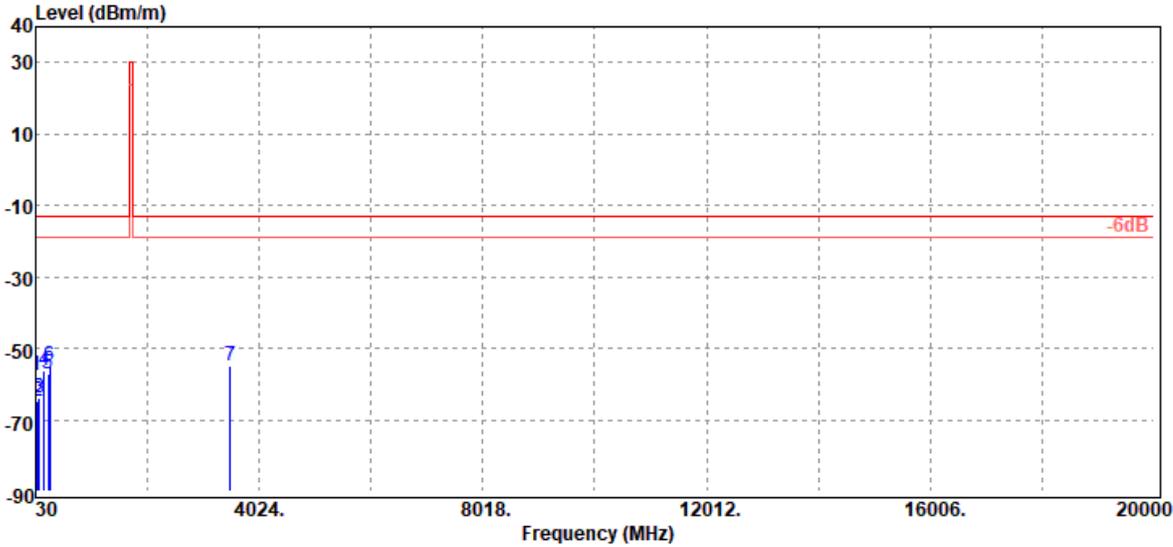
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
60.07	-47.63	-36.63	-10.35	-0.65	-13.00	-34.63
70.74	-50.72	-40.46	-9.57	-0.69	-13.00	-37.72
146.40	-55.47	-46.96	-7.51	-1.00	-13.00	-42.47
185.20	-57.41	-52.24	-4.05	-1.12	-13.00	-44.41
451.95	-53.81	-50	-2.05	-1.76	-13.00	-40.81
499.48	-51.83	-48	-1.96	-1.87	-13.00	-38.83
3505.20	-55.41	-62.35	12.49	-5.55	-13.00	-42.41

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Operation Band :WCDMA B4
Fundamental Frequency :1752.6 MHz
Operation Mode :TX CH HIGH
EUT Pol. :H Plan

Test Date :2019-04-02
Temp./Humi. :25/60
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



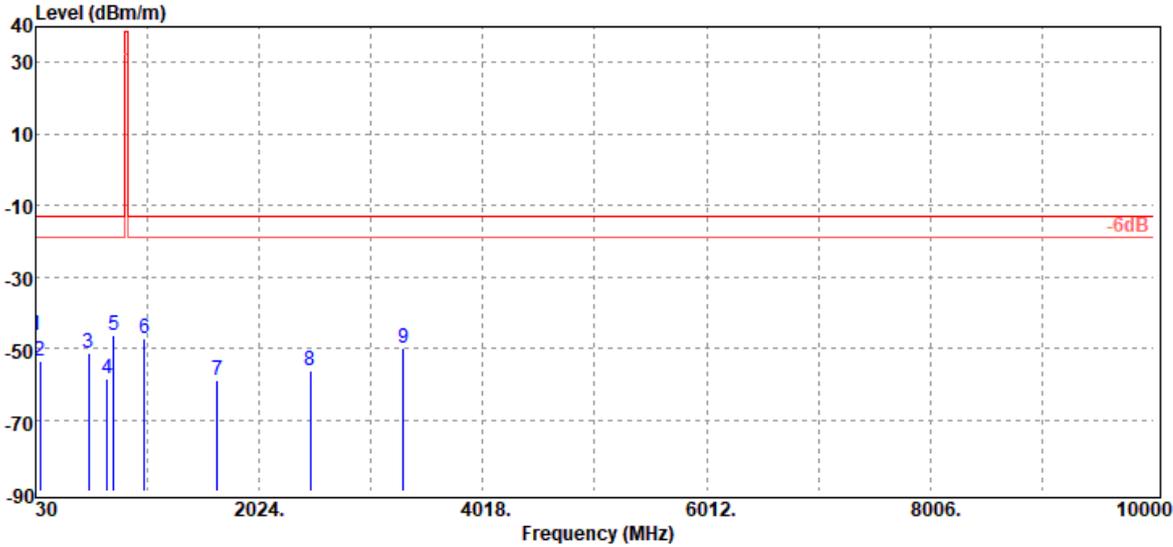
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
31.94	-57.82	-29.25	-28.10	-0.47	-13.00	-44.82
70.74	-64.99	-54.73	-9.57	-0.69	-13.00	-51.99
100.81	-63.87	-54.52	-8.52	-0.83	-13.00	-50.87
184.23	-56.42	-51.19	-4.11	-1.12	-13.00	-43.42
249.22	-57.21	-54.13	-1.78	-1.30	-13.00	-44.21
284.14	-54.96	-51.1	-2.47	-1.39	-13.00	-41.96
3505.20	-55.07	-62.01	12.49	-5.55	-13.00	-42.07

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Radiated Spurious Emission Measurement Result: WCDMA Band 5 Mode

Operation Band	:WCDMA B5	Test Date	:2019-04-02
Fundamental Frequency	:826.4 MHz	Temp./Humi.	:25/60
Operation Mode	:TX CH LOW	Engineer	:Jerry
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL



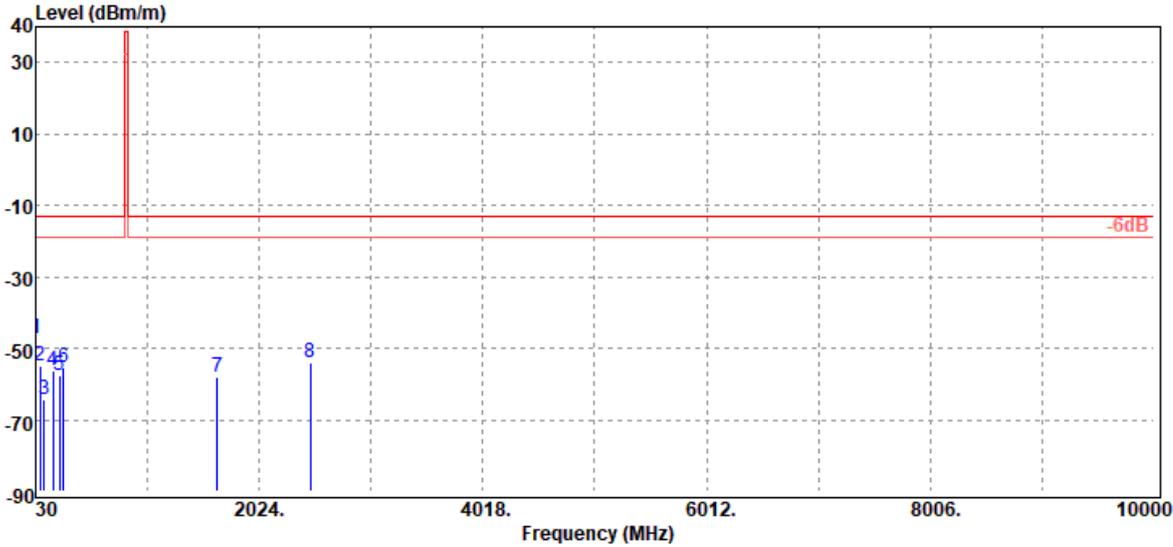
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
32.91	-46.54	-18.89	-27.17	-0.48	-13.00	-33.54
69.77	-53.35	-42.99	-9.67	-0.69	-13.00	-40.35
499.48	-51.10	-47.27	-1.96	-1.87	-13.00	-38.10
665.35	-58.55	-54.93	-1.45	-2.17	-13.00	-45.55
729.37	-46.54	-42.9	-1.36	-2.28	-13.00	-33.54
1000.00	-47.36	-43.23	-1.45	-2.68	-13.00	-34.36
1652.80	-59.14	-65.31	9.72	-3.55	-13.00	-46.14
2479.20	-56.32	-62.56	10.72	-4.48	-13.00	-43.32
3305.60	-50.16	-57.44	12.63	-5.35	-13.00	-37.16

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Operation Band :WCDMA B5
Fundamental Frequency :826.4 MHz
Operation Mode :TX CH LOW
EUT Pol. :H Plan

Test Date :2019-04-02
Temp./Humi. :25/60
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.97	-47.14	-17.62	-29.06	-0.46	-13.00	-34.14
68.80	-55.04	-44.59	-9.77	-0.68	-13.00	-42.04
105.66	-64.44	-54.18	-9.42	-0.84	-13.00	-51.44
182.29	-56.49	-51.11	-4.27	-1.11	-13.00	-43.49
245.34	-57.47	-54.24	-1.94	-1.29	-13.00	-44.47
282.20	-55.56	-51.66	-2.51	-1.39	-13.00	-42.56
1652.80	-58.17	-64.34	9.72	-3.55	-13.00	-45.17
2479.20	-54.14	-60.38	10.72	-4.48	-13.00	-41.14

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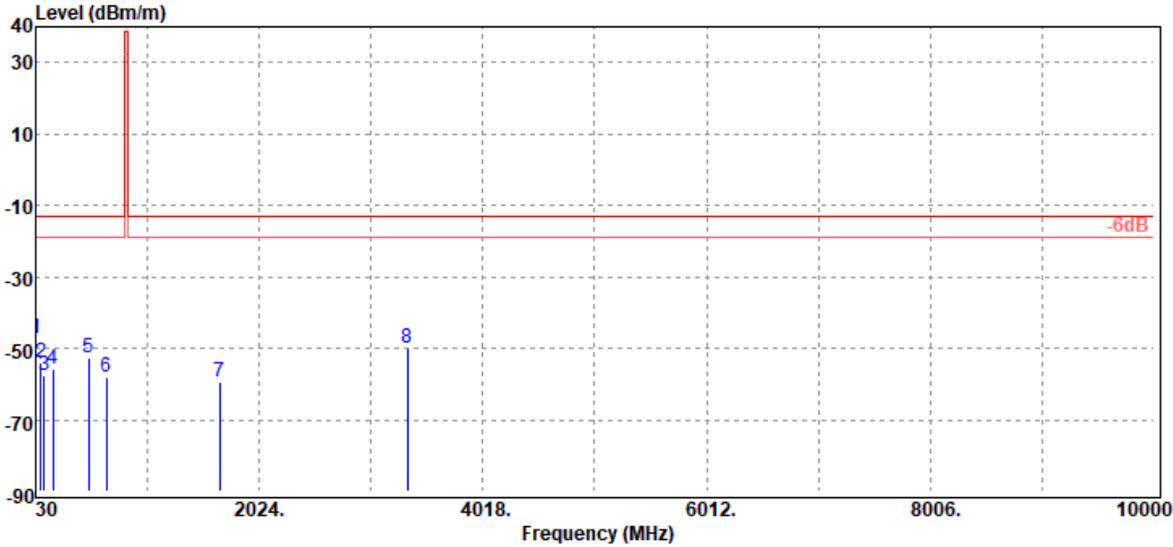
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Operation Band :WCDMA B5
Fundamental Frequency :836.6 MHz
Operation Mode :TX CH MID
EUT Pol. :H Plan

Test Date :2019-04-02
Temp./Humi. :25/60
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



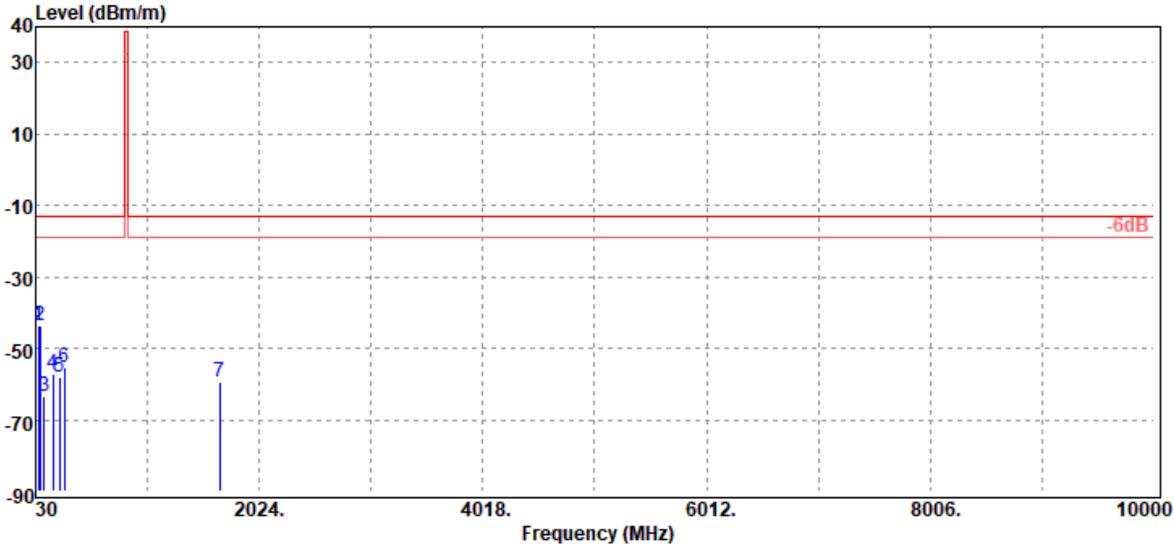
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
33.88	-47.49	-20.74	-26.26	-0.49	-13.00	-34.49
80.44	-53.79	-44.65	-8.40	-0.74	-13.00	-40.79
102.75	-57.77	-48.03	-8.91	-0.83	-13.00	-44.77
183.26	-56.00	-50.69	-4.19	-1.12	-13.00	-43.00
499.48	-52.70	-48.87	-1.96	-1.87	-13.00	-39.70
664.38	-57.99	-54.37	-1.45	-2.17	-13.00	-44.99
1673.20	-59.62	-65.88	9.84	-3.58	-13.00	-46.62
3346.40	-49.96	-57.47	12.88	-5.37	-13.00	-36.96

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Operation Band :WCDMA B5
Fundamental Frequency :836.6 MHz
Operation Mode :TX CH MID
EUT Pol. :H Plan

Test Date :2019-04-02
Temp./Humi. :25/60
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
58.13	-43.76	-32.7	-10.42	-0.64	-13.00	-30.76
68.80	-43.50	-33.05	-9.77	-0.68	-13.00	-30.50
104.69	-63.42	-53.29	-9.29	-0.84	-13.00	-50.42
183.26	-57.18	-51.87	-4.19	-1.12	-13.00	-44.18
242.43	-57.87	-54.54	-2.05	-1.28	-13.00	-44.87
287.05	-55.17	-51.44	-2.33	-1.40	-13.00	-42.17
1673.20	-59.36	-65.62	9.84	-3.58	-13.00	-46.36

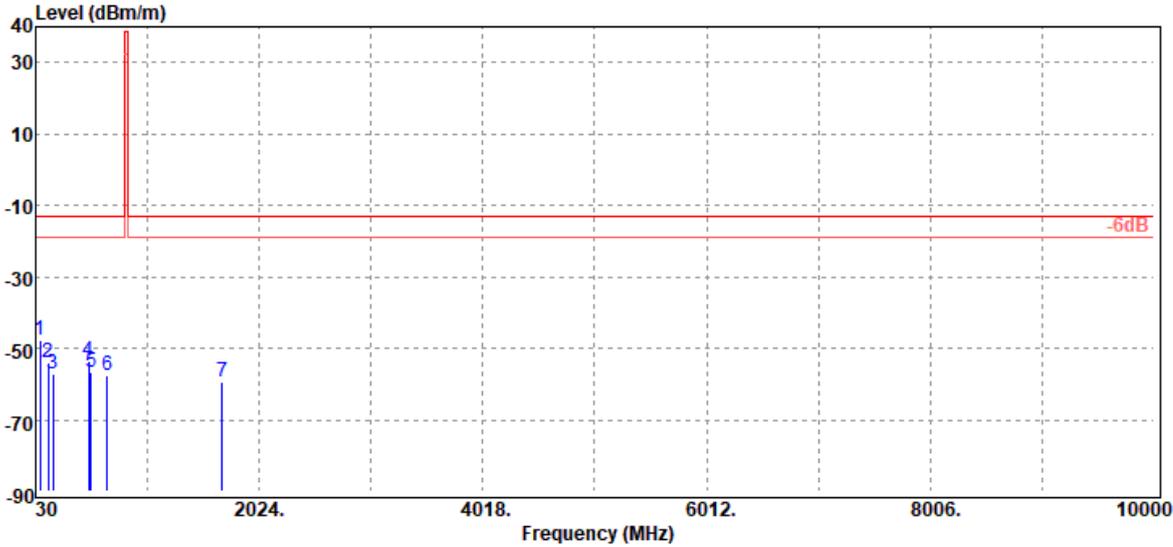
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Operation Band :WCDMA B5
Fundamental Frequency :846.6 MHz
Operation Mode :TX CH HIGH
EUT Pol. :H Plan

Test Date :2019-04-02
Temp./Humi. :25/60
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



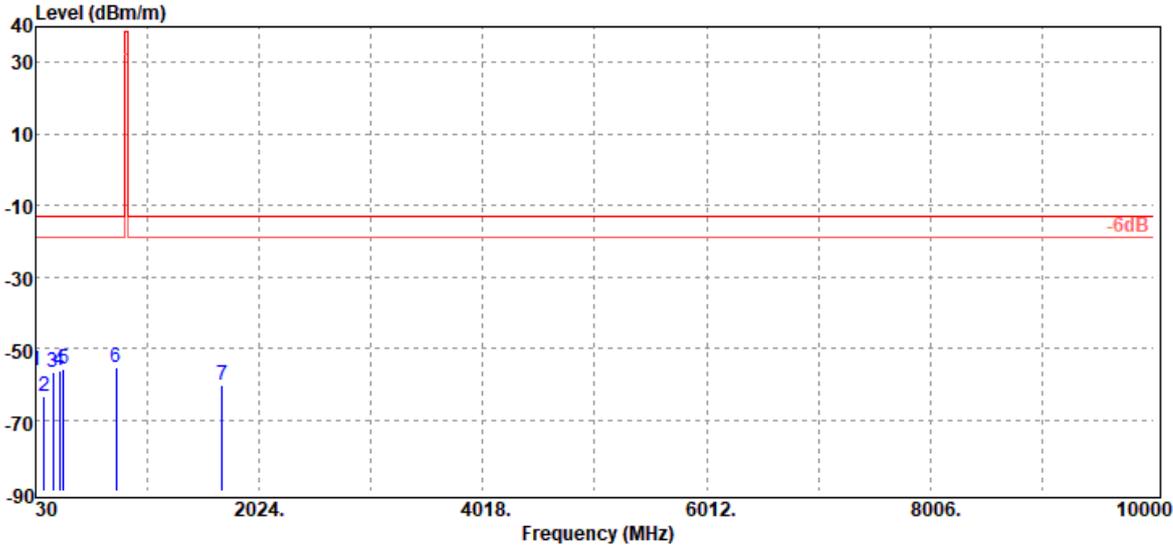
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
67.83	-47.76	-37.22	-9.86	-0.68	-13.00	-34.76
143.49	-53.92	-45.01	-7.92	-0.99	-13.00	-40.92
182.29	-57.10	-51.72	-4.27	-1.11	-13.00	-44.10
499.48	-53.74	-49.91	-1.96	-1.87	-13.00	-40.74
524.70	-56.79	-53.52	-1.36	-1.91	-13.00	-43.79
666.32	-57.66	-54.03	-1.45	-2.18	-13.00	-44.66
1693.20	-59.38	-65.75	9.96	-3.59	-13.00	-46.38

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Operation Band :WCDMA B5
Fundamental Frequency :846.6 MHz
Operation Mode :TX CH HIGH
EUT Pol. :H Plan

Test Date :2019-04-02
Temp./Humi. :25/60
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



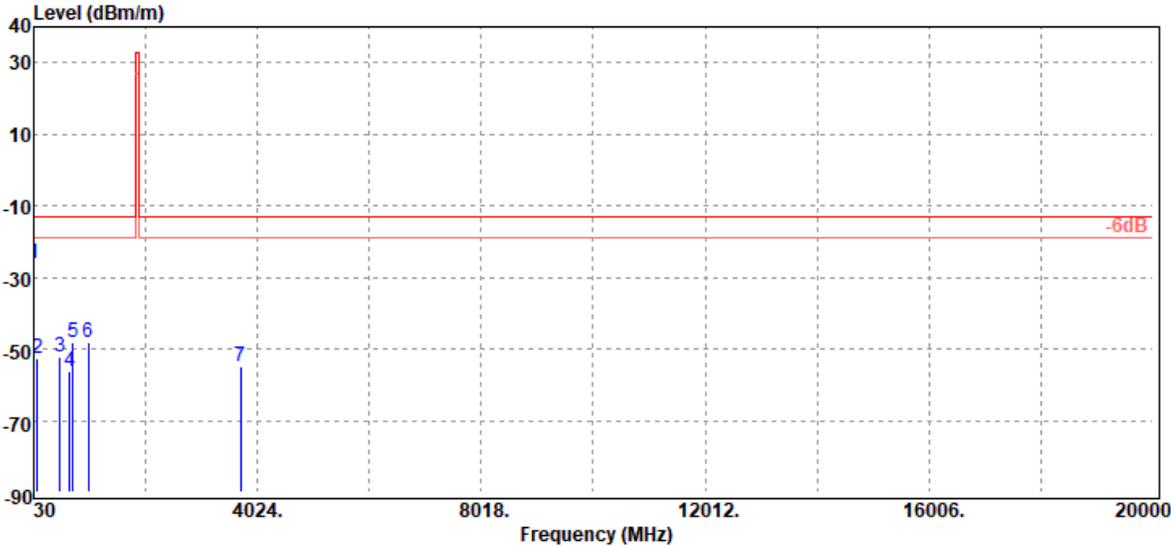
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.97	-56.41	-26.89	-29.06	-0.46	-13.00	-43.41
104.69	-63.47	-53.34	-9.29	-0.84	-13.00	-50.47
182.29	-56.76	-51.38	-4.27	-1.11	-13.00	-43.76
242.43	-56.10	-52.77	-2.05	-1.28	-13.00	-43.10
279.29	-55.90	-51.96	-2.56	-1.38	-13.00	-42.90
746.83	-55.26	-51.56	-1.39	-2.31	-13.00	-42.26
1693.20	-60.22	-66.59	9.96	-3.59	-13.00	-47.22

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Radiated Spurious Emission Measurement Result: LTE-Band 2 (The Worst Case)

Operation Band	:LTE B2 20M QPSK RB1,0	Test Date	:2019-04-02
Fundamental Frequency	:1860 MHz	Temp./Humi.	:25/60
Operation Mode	:TX CH LOW	Engineer	:Jerry
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL



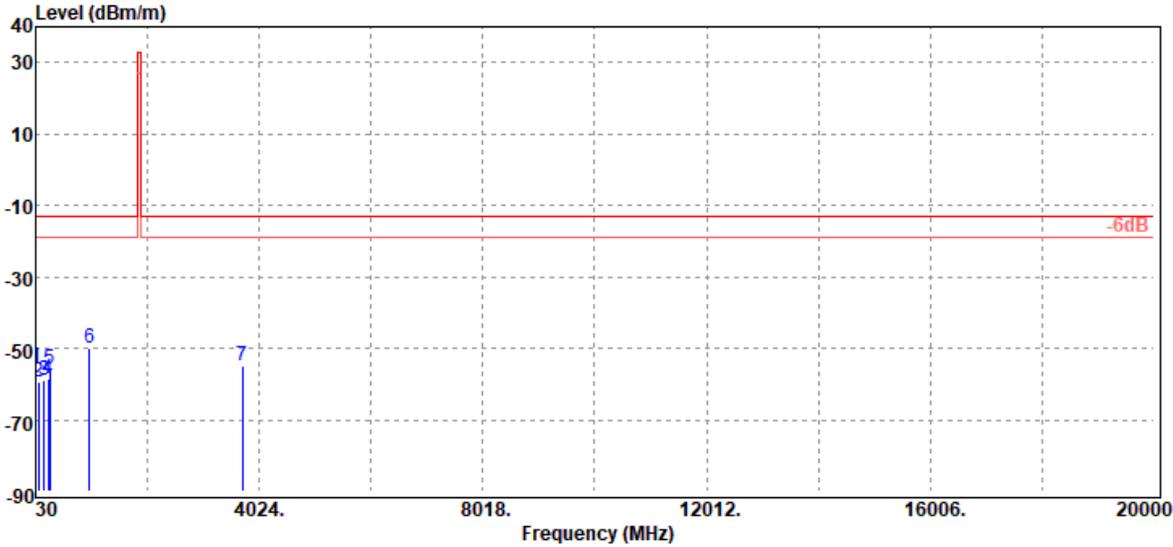
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
36.79	-26.32	-2.5	-23.31	-0.51	-13.00	-13.32
97.90	-52.54	-43.83	-7.89	-0.82	-13.00	-39.54
497.54	-52.00	-48.14	-2.00	-1.86	-13.00	-39.00
666.32	-56.24	-52.61	-1.45	-2.18	-13.00	-43.24
729.37	-48.26	-44.62	-1.36	-2.28	-13.00	-35.26
999.03	-48.05	-43.94	-1.43	-2.68	-13.00	-35.05
3720.00	-55.09	-61.84	12.46	-5.71	-13.00	-42.09

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Operation Band :LTE B2 20M QPSK RB1,0
Fundamental Frequency :1860 MHz
Operation Mode :TX CH LOW
EUT Pol. :H Plan

Test Date :2019-04-02
Temp./Humi. :25/60
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
41.64	-55.26	-36.24	-18.48	-0.54	-13.00	-42.26
76.56	-59.37	-49.72	-8.93	-0.72	-13.00	-46.37
180.35	-58.76	-53.23	-4.42	-1.11	-13.00	-45.76
249.22	-58.31	-55.23	-1.78	-1.30	-13.00	-45.31
284.14	-55.81	-51.95	-2.47	-1.39	-13.00	-42.81
996.12	-49.96	-45.92	-1.37	-2.67	-13.00	-36.96
3720.00	-54.84	-61.59	12.46	-5.71	-13.00	-41.84

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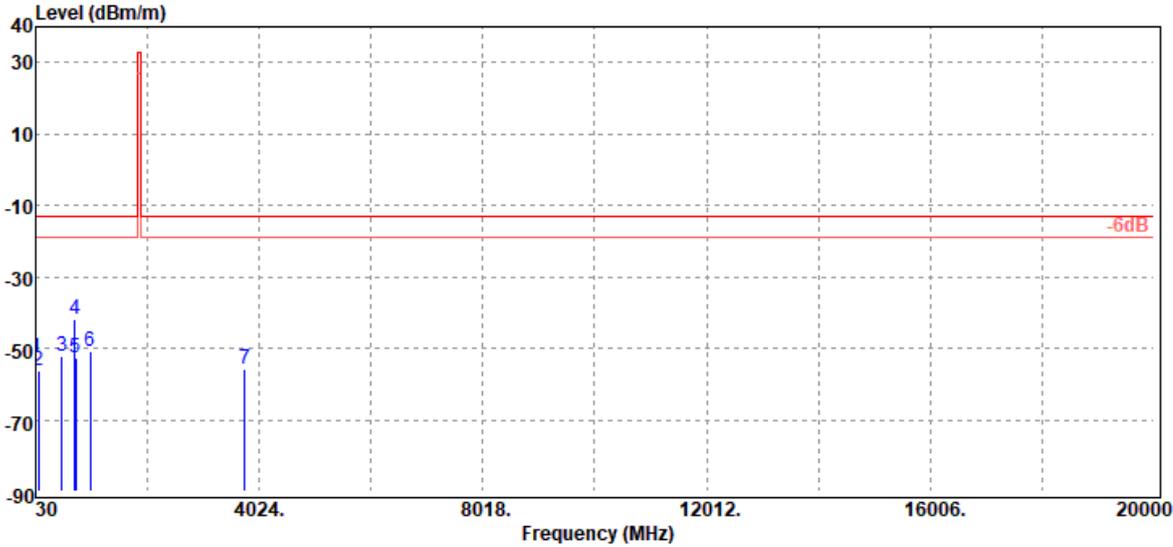
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Member of the SGS Group (SGS SA)

Operation Band :LTE B2 20M QPSK RB1,0
Fundamental Frequency :1880 MHz
Operation Mode :TX CH MID
EUT Pol. :H Plan

Test Date :2019-04-02
Temp./Humi. :25/60
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-52.73	-22.23	-30.05	-0.45	-13.00	-39.73
81.41	-56.22	-47.16	-8.31	-0.75	-13.00	-43.22
498.51	-52.44	-48.59	-1.98	-1.87	-13.00	-39.44
730.34	-41.85	-38.22	-1.35	-2.28	-13.00	-28.85
746.83	-52.82	-49.12	-1.39	-2.31	-13.00	-39.82
999.03	-50.91	-46.8	-1.43	-2.68	-13.00	-37.91
3760.00	-55.68	-62.41	12.42	-5.69	-13.00	-42.68

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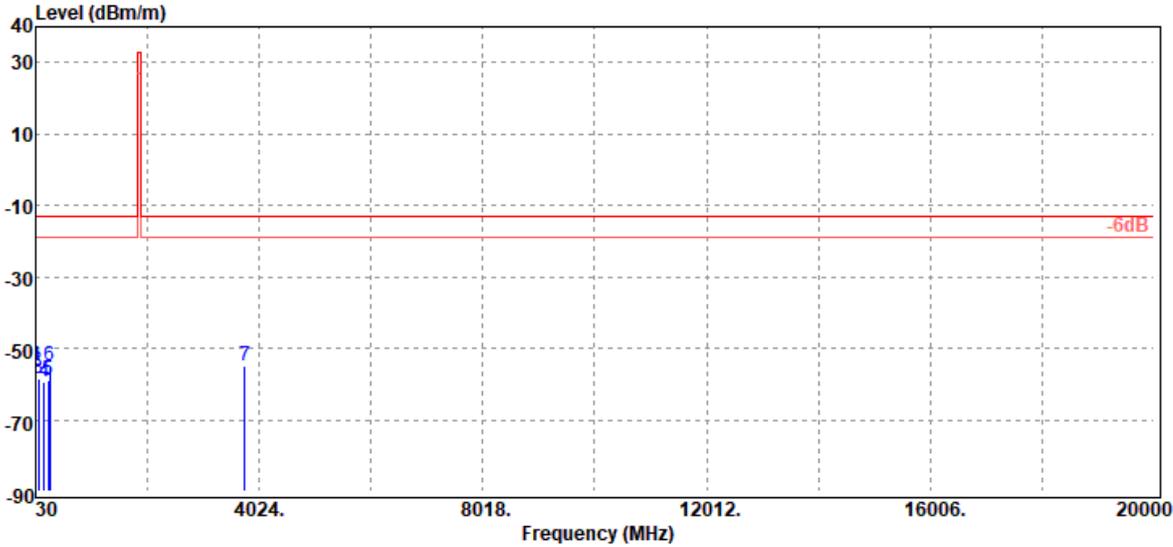
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Member of the SGS Group (SGS SA)

Operation Band :LTE B2 20M QPSK RB1,0
Fundamental Frequency :1880 MHz
Operation Mode :TX CH MID
EUT Pol. :H Plan

Test Date :2019-04-02
Temp./Humi. :25/60
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.97	-54.82	-25.3	-29.06	-0.46	-13.00	-41.82
42.61	-56.16	-38.03	-17.58	-0.55	-13.00	-43.16
74.62	-58.43	-48.53	-9.19	-0.71	-13.00	-45.43
183.26	-59.21	-53.9	-4.19	-1.12	-13.00	-46.21
249.22	-58.84	-55.76	-1.78	-1.30	-13.00	-45.84
288.02	-54.97	-51.3	-2.27	-1.40	-13.00	-41.97
3760.00	-55.08	-61.81	12.42	-5.69	-13.00	-42.08

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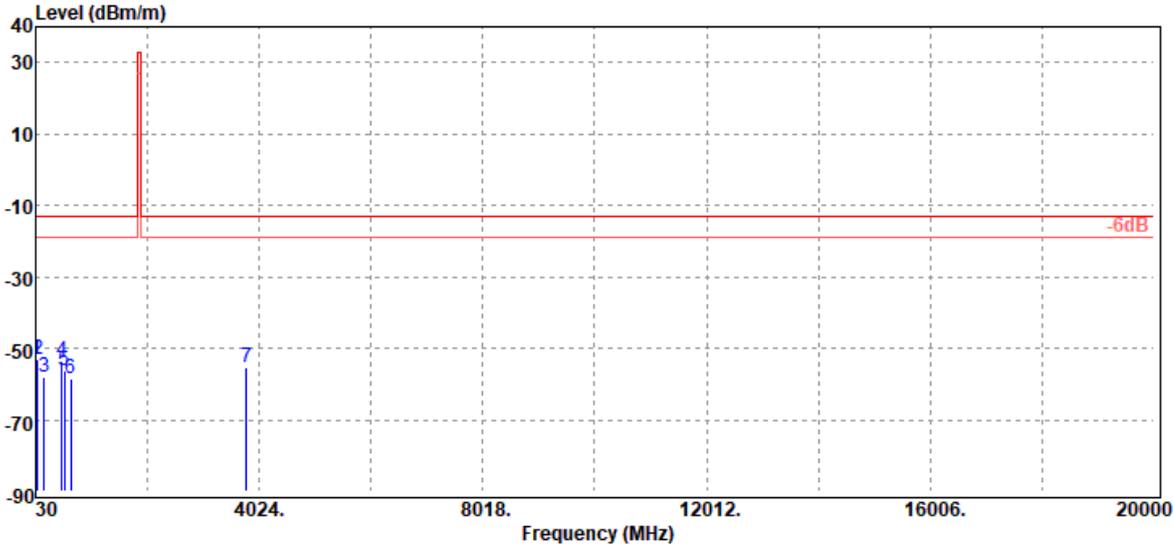
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Operation Band :LTE B2 20M QPSK RB1,0
Fundamental Frequency :1900 MHz
Operation Mode :TX CH HIGH
EUT Pol. :H Plan

Test Date :2019-04-02
Temp./Humi. :25/60
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
37.76	-53.02	-30.21	-22.29	-0.52	-13.00	-40.02
70.74	-53.11	-42.85	-9.57	-0.69	-13.00	-40.11
182.29	-58.17	-52.79	-4.27	-1.11	-13.00	-45.17
499.48	-53.59	-49.76	-1.96	-1.87	-13.00	-40.59
540.22	-56.33	-53.15	-1.25	-1.93	-13.00	-43.33
665.35	-58.29	-54.67	-1.45	-2.17	-13.00	-45.29
3800.00	-55.34	-62.08	12.50	-5.76	-13.00	-42.34

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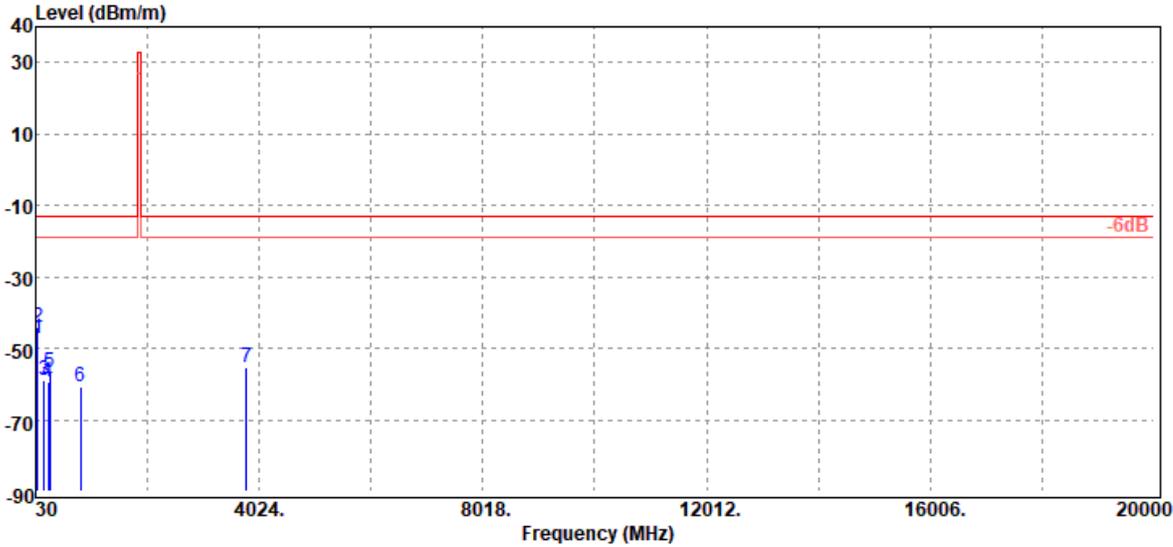
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Operation Band :LTE B2 20M QPSK RB1,0
Fundamental Frequency :1900 MHz
Operation Mode :TX CH HIGH
EUT Pol. :H Plan

Test Date :2019-04-02
Temp./Humi. :25/60
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
62.98	-47.18	-36.29	-10.23	-0.66	-13.00	-34.18
70.74	-44.02	-33.76	-9.57	-0.69	-13.00	-31.02
180.35	-59.11	-53.58	-4.42	-1.11	-13.00	-46.11
251.16	-59.23	-56.22	-1.70	-1.31	-13.00	-46.23
277.35	-56.69	-52.71	-2.60	-1.38	-13.00	-43.69
833.16	-60.93	-56.99	-1.49	-2.45	-13.00	-47.93
3800.00	-55.45	-62.19	12.50	-5.76	-13.00	-42.45

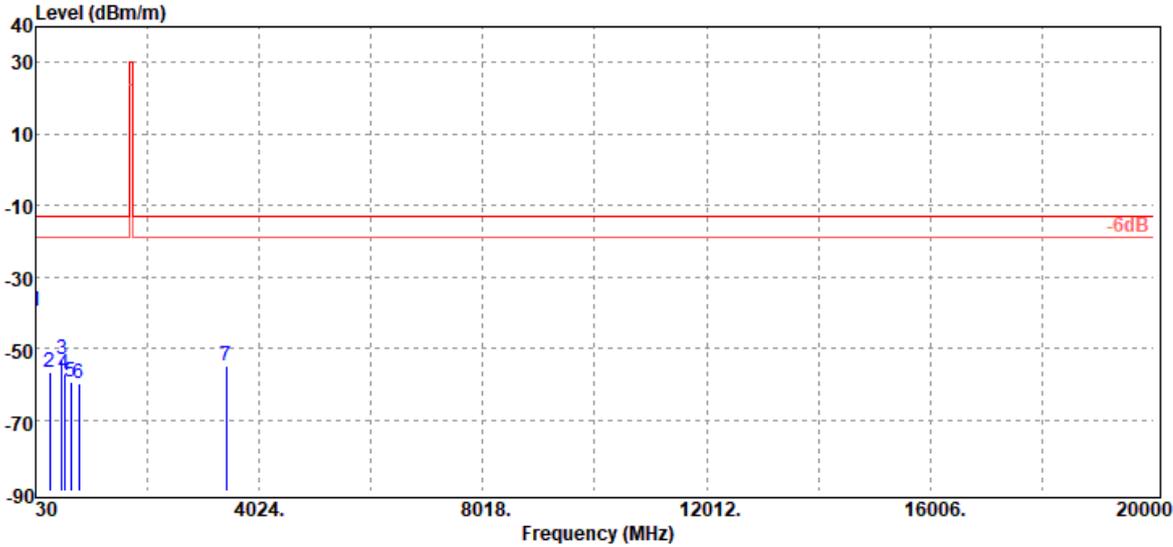
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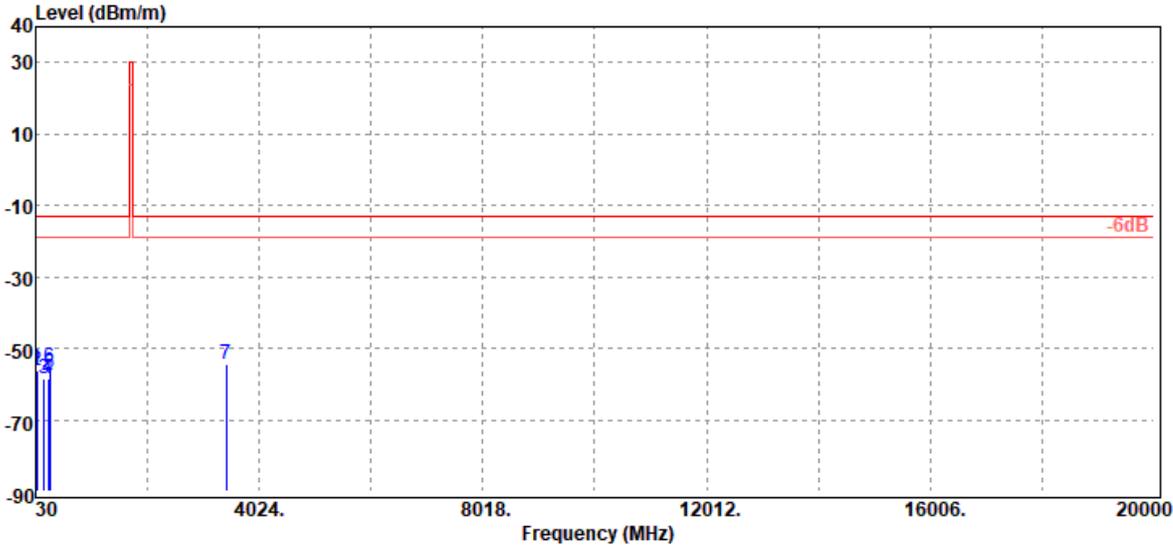
Radiated Spurious Emission Measurement Result: LTE-Band 4 (The Worst Case)

Operation Band	:LTE B4 20M QPSK RB1,0	Test Date	:2019-04-02
Fundamental Frequency	:1720 MHz	Temp./Humi.	:25/60
Operation Mode	:TX CH LOW	Engineer	:Jerry
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL



Operation Band :LTE B4 20M QPSK RB1,0
Fundamental Frequency :1720 MHz
Operation Mode :TX CH LOW
EUT Pol. :H Plan

Test Date :2019-04-02
Temp./Humi. :25/60
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
41.64	-55.92	-36.9	-18.48	-0.54	-13.00	-42.92
44.55	-56.28	-39.88	-15.84	-0.56	-13.00	-43.28
183.26	-58.56	-53.25	-4.19	-1.12	-13.00	-45.56
249.22	-58.32	-55.24	-1.78	-1.30	-13.00	-45.32
284.14	-57.28	-53.42	-2.47	-1.39	-13.00	-44.28
286.08	-55.52	-51.74	-2.38	-1.40	-13.00	-42.52
3440.00	-54.44	-61.68	12.72	-5.48	-13.00	-41.44

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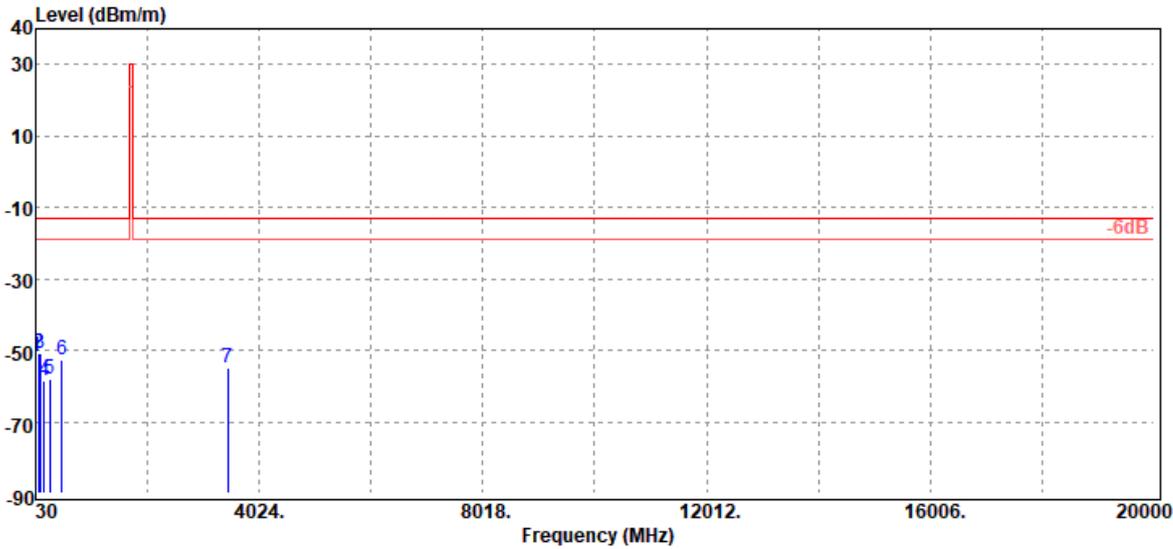
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Member of the SGS Group (SGS SA)

Operation Band :LTE B4 20M QPSK RB1,0
Fundamental Frequency :1732.5 MHz
Operation Mode :TX CH MID
EUT Pol. :H Plan

Test Date :2019-04-02
Temp./Humi. :25/60
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



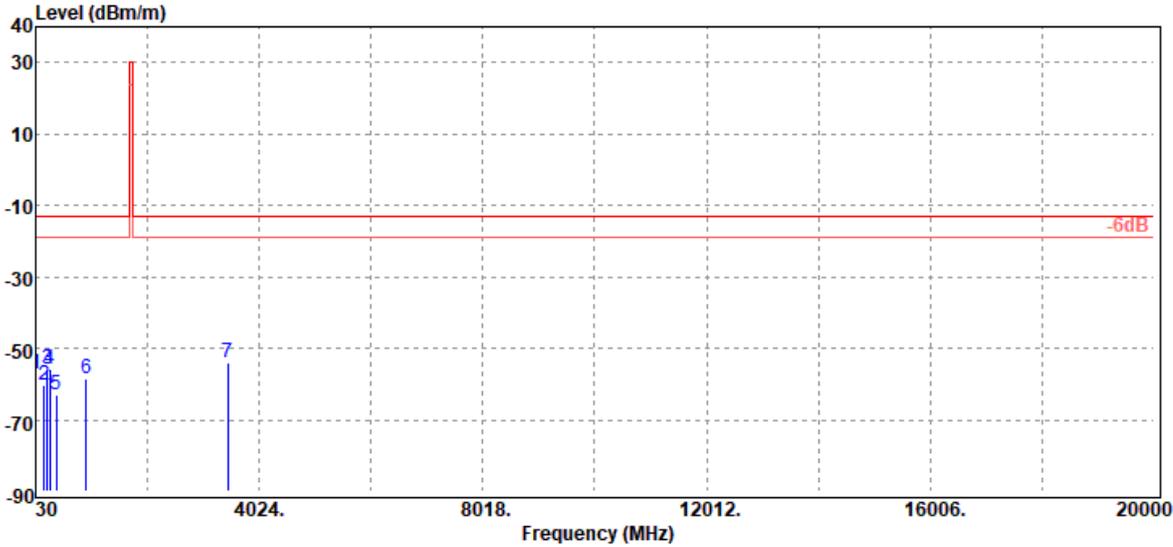
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
35.82	-51.73	-26.88	-24.35	-0.50	-13.00	-38.73
82.38	-50.72	-41.76	-8.21	-0.75	-13.00	-37.72
108.57	-50.71	-40.14	-9.71	-0.86	-13.00	-37.71
182.29	-58.61	-53.23	-4.27	-1.11	-13.00	-45.61
285.11	-58.23	-54.39	-2.44	-1.40	-13.00	-45.23
499.48	-52.53	-48.7	-1.96	-1.87	-13.00	-39.53
3465.00	-55.08	-62.24	12.64	-5.48	-13.00	-42.08

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Operation Band :LTE B4 20M QPSK RB1,0
Fundamental Frequency :1732.5 MHz
Operation Mode :TX CH MID
EUT Pol. :H Plan

Test Date :2019-04-02
Temp./Humi. :25/60
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-57.29	-26.79	-30.05	-0.45	-13.00	-44.29
185.20	-60.40	-55.23	-4.05	-1.12	-13.00	-47.40
240.49	-55.71	-52.3	-2.13	-1.28	-13.00	-42.71
289.96	-55.73	-52.17	-2.15	-1.41	-13.00	-42.73
398.60	-63.23	-59.95	-1.62	-1.66	-13.00	-50.23
937.92	-58.39	-54.5	-1.29	-2.60	-13.00	-45.39
3465.00	-54.05	-61.21	12.64	-5.48	-13.00	-41.05

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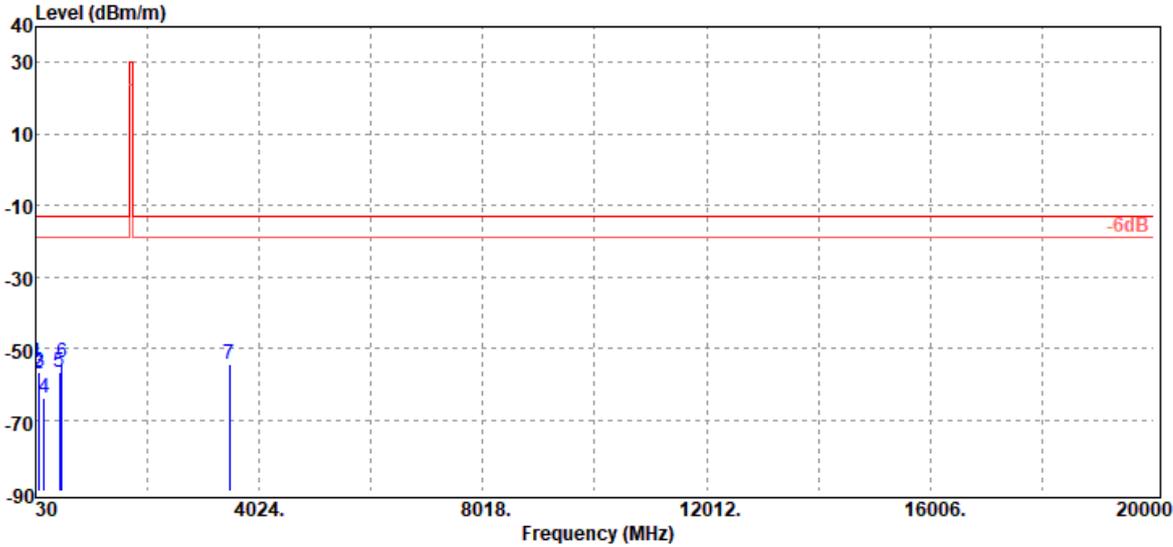
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Member of the SGS Group (SGS SA)

Operation Band :LTE B4 20M QPSK RB1,0
 Fundamental Frequency :1745 MHz
 Operation Mode :TX CH HIGH
 EUT Pol. :H Plan

Test Date :2019-04-02
 Temp./Humi. :25/60
 Engineer :Jerry
 Measurement Antenna Pol. :VERTICAL



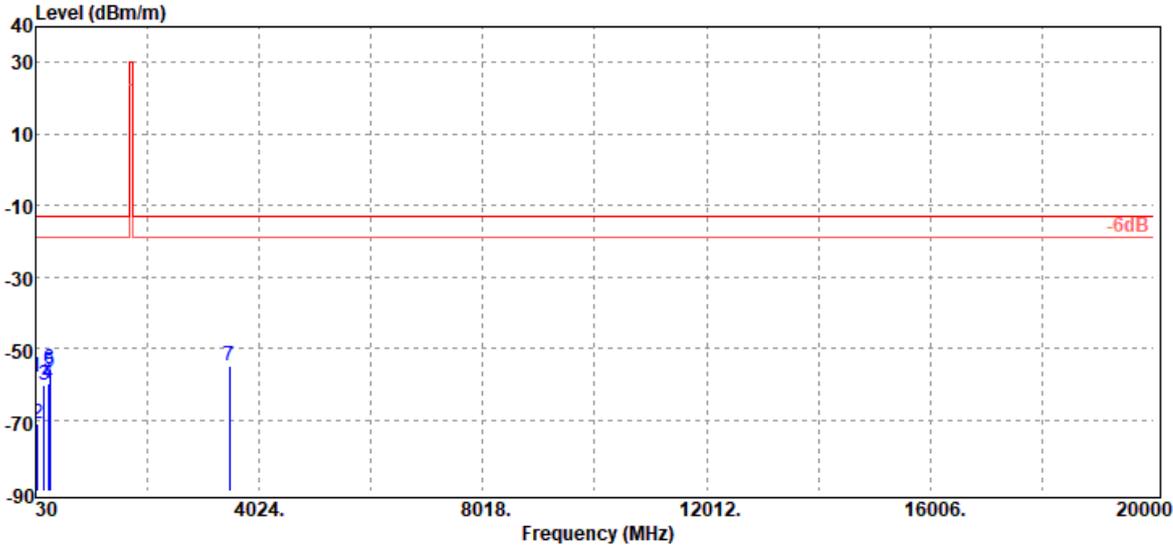
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-54.22	-23.72	-30.05	-0.45	-13.00	-41.22
78.50	-57.15	-47.76	-8.66	-0.73	-13.00	-44.15
91.11	-56.72	-48.83	-7.10	-0.79	-13.00	-43.72
185.20	-64.01	-58.84	-4.05	-1.12	-13.00	-51.01
453.89	-56.53	-52.71	-2.05	-1.77	-13.00	-43.53
498.51	-54.11	-50.26	-1.98	-1.87	-13.00	-41.11
3490.00	-54.45	-61.47	12.54	-5.52	-13.00	-41.45

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Operation Band :LTE B4 20M QPSK RB1,0
Fundamental Frequency :1745 MHz
Operation Mode :TX CH HIGH
EUT Pol. :H Plan

Test Date :2019-04-02
Temp./Humi. :25/60
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-58.15	-27.65	-30.05	-0.45	-13.00	-45.15
69.77	-71.15	-60.79	-9.67	-0.69	-13.00	-58.15
182.29	-60.53	-55.15	-4.27	-1.11	-13.00	-47.53
254.07	-60.03	-57.12	-1.59	-1.32	-13.00	-47.03
279.29	-56.66	-52.72	-2.56	-1.38	-13.00	-43.66
285.11	-55.72	-51.88	-2.44	-1.40	-13.00	-42.72
3490.00	-54.84	-61.86	12.54	-5.52	-13.00	-41.84

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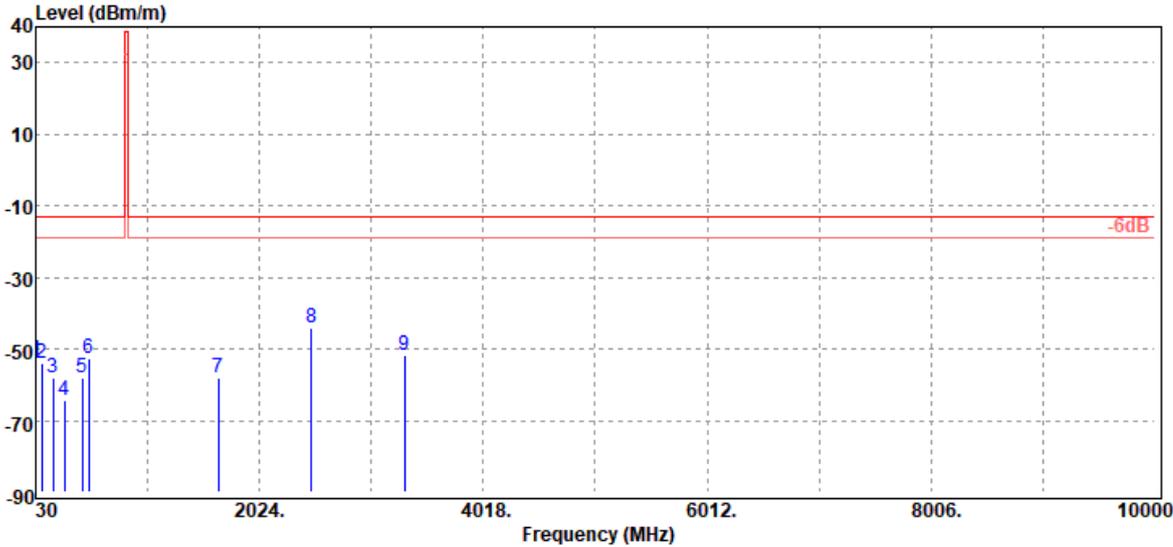
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Radiated Spurious Emission Measurement Result: LTE-Band 5 (The Worst Case)

Operation Band	:LTE B5 10M QPSK RB1,0	Test Date	:2019-04-02
Fundamental Frequency	:829 MHz	Temp./Humi.	:25/60
Operation Mode	:TX CH LOW	Engineer	:Kane
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-52.98	-22.48	-30.05	-0.45	-13.00	-39.98
82.38	-54.04	-45.08	-8.21	-0.75	-13.00	-41.04
182.29	-57.84	-52.46	-4.27	-1.11	-13.00	-44.84
288.02	-64.46	-60.79	-2.27	-1.40	-13.00	-51.46
445.16	-58.06	-54.26	-2.05	-1.75	-13.00	-45.06
500.45	-52.67	-48.86	-1.94	-1.87	-13.00	-39.67
1658.00	-58.21	-64.4	9.75	-3.56	-13.00	-45.21
2487.00	-44.28	-50.52	10.75	-4.51	-13.00	-31.28
3316.00	-51.84	-59.19	12.70	-5.35	-13.00	-38.84

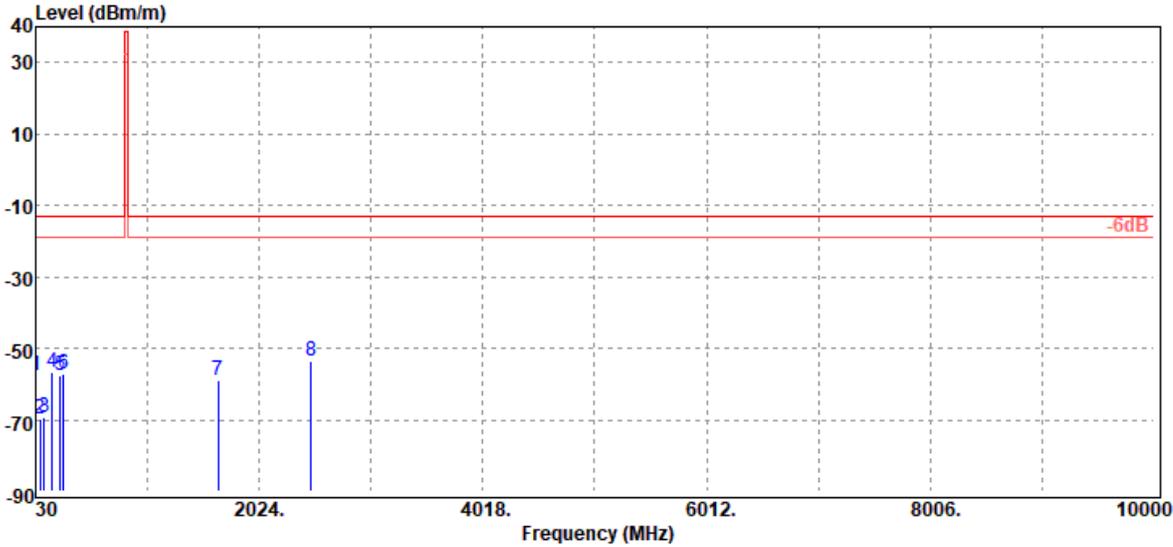
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Operation Band :LTE B5 10M QPSK RB1,0
Fundamental Frequency :829 MHz
Operation Mode :TX CH LOW
EUT Pol. :H Plan

Test Date :2019-04-02
Temp./Humi. :25/60
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-57.48	-26.98	-30.05	-0.45	-13.00	-44.48
70.74	-69.89	-59.63	-9.57	-0.69	-13.00	-56.89
104.69	-69.20	-59.07	-9.29	-0.84	-13.00	-56.20
180.35	-56.59	-51.06	-4.42	-1.11	-13.00	-43.59
250.19	-57.66	-54.61	-1.74	-1.31	-13.00	-44.66
278.32	-56.97	-53.01	-2.58	-1.38	-13.00	-43.97
1658.00	-58.79	-64.98	9.75	-3.56	-13.00	-45.79
2487.00	-53.44	-59.68	10.75	-4.51	-13.00	-40.44

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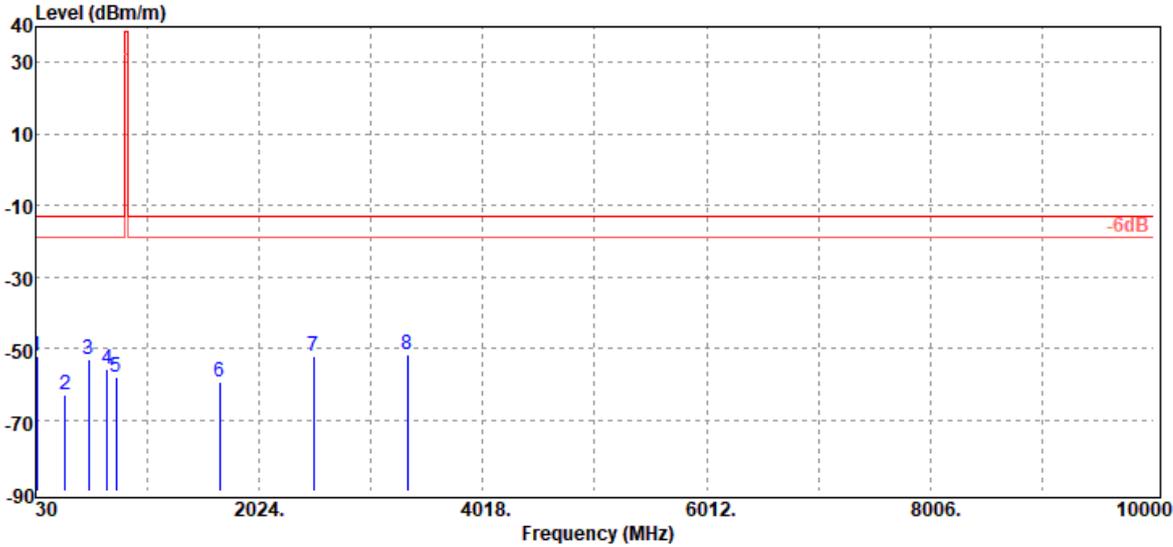
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Operation Band :LTE B5 10M QPSK RB1,0
Fundamental Frequency :836.5 MHz
Operation Mode :TX CH MID
EUT Pol. :H Plan

Test Date :2019-04-02
Temp./Humi. :25/60
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



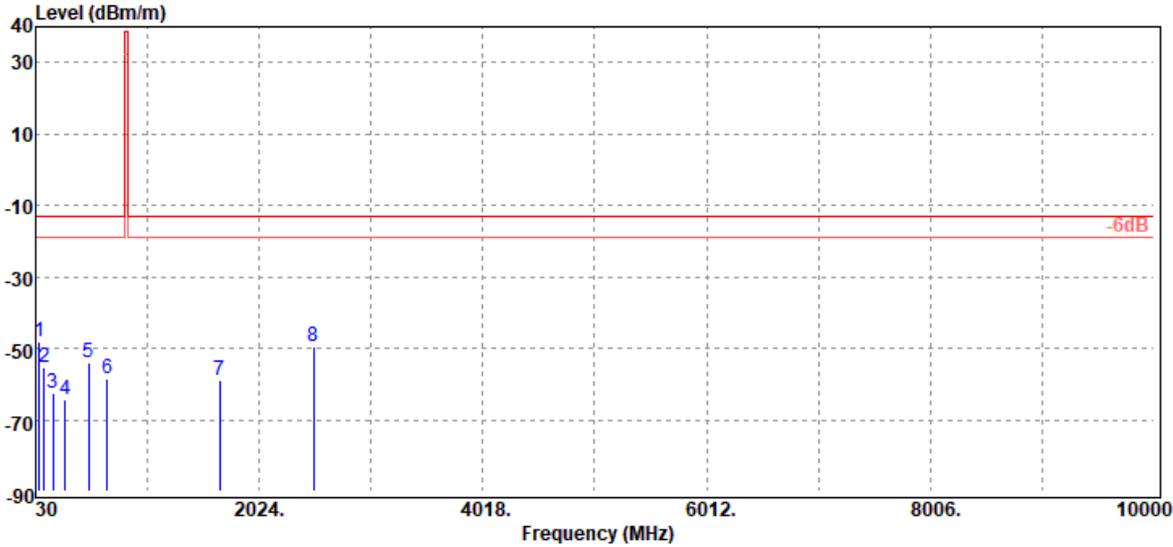
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
37.76	-52.20	-29.39	-22.29	-0.52	-13.00	-39.20
291.90	-63.19	-59.63	-2.15	-1.41	-13.00	-50.19
499.48	-53.18	-49.35	-1.96	-1.87	-13.00	-40.18
665.35	-55.88	-52.26	-1.45	-2.17	-13.00	-42.88
744.89	-58.23	-54.58	-1.35	-2.30	-13.00	-45.23
1673.00	-59.28	-65.54	9.84	-3.58	-13.00	-46.28
2509.50	-52.05	-58.26	10.80	-4.59	-13.00	-39.05
3346.00	-51.60	-59.11	12.88	-5.37	-13.00	-38.60

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Operation Band :LTE B5 10M QPSK RB1,0
Fundamental Frequency :836.5 MHz
Operation Mode :TX CH MID
EUT Pol. :H Plan

Test Date :2019-04-02
Temp./Humi. :25/60
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



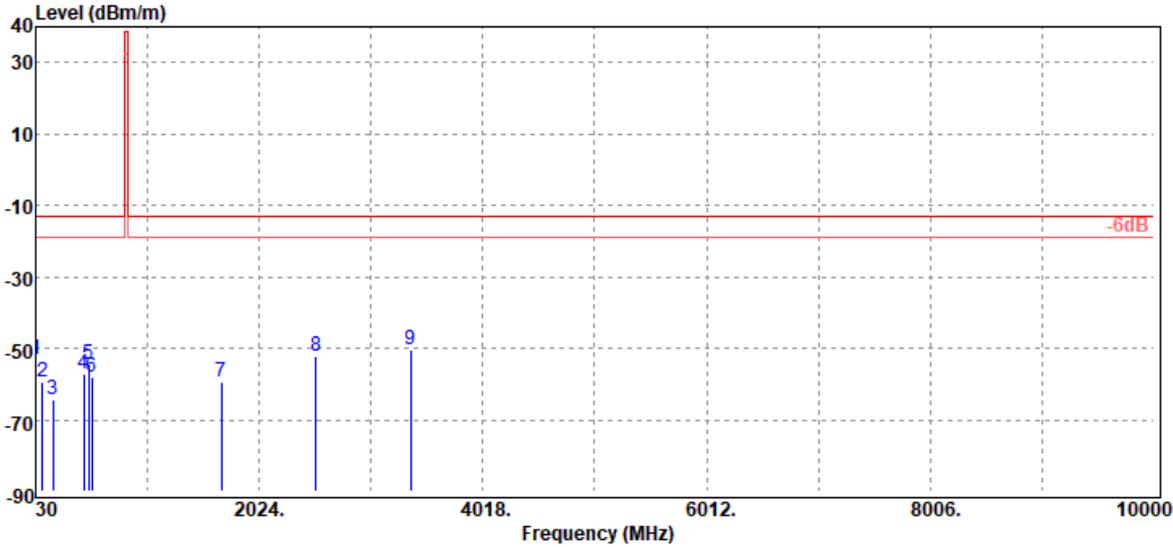
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
65.89	-47.97	-37.24	-10.06	-0.67	-13.00	-34.97
104.69	-55.53	-45.4	-9.29	-0.84	-13.00	-42.53
185.20	-62.45	-57.28	-4.05	-1.12	-13.00	-49.45
289.96	-64.52	-60.96	-2.15	-1.41	-13.00	-51.52
499.48	-54.18	-50.35	-1.96	-1.87	-13.00	-41.18
667.29	-58.53	-54.9	-1.45	-2.18	-13.00	-45.53
1673.00	-58.91	-65.17	9.84	-3.58	-13.00	-45.91
2509.50	-49.34	-55.55	10.80	-4.59	-13.00	-36.34

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Operation Band :LTE B5 10M QPSK RB1,0
Fundamental Frequency :844 MHz
Operation Mode :TX CH HIGH
EUT Pol. :H Plan

Test Date :2019-04-02
Temp./Humi. :25/60
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



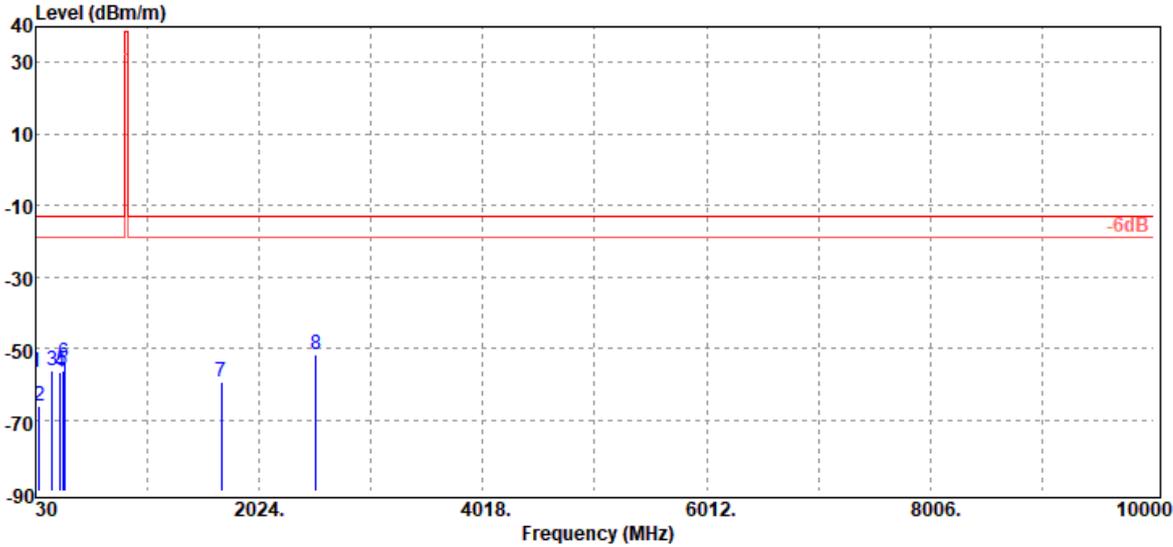
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-53.26	-22.76	-30.05	-0.45	-13.00	-40.26
89.17	-59.29	-51.31	-7.20	-0.78	-13.00	-46.29
184.23	-64.31	-59.08	-4.11	-1.12	-13.00	-51.31
458.74	-57.01	-53.18	-2.05	-1.78	-13.00	-44.01
500.45	-54.67	-50.86	-1.94	-1.87	-13.00	-41.67
528.58	-58.17	-54.9	-1.35	-1.92	-13.00	-45.17
1688.00	-59.19	-65.53	9.93	-3.59	-13.00	-46.19
2532.00	-52.23	-58.44	10.80	-4.59	-13.00	-39.23
3376.00	-50.57	-57.99	12.85	-5.43	-13.00	-37.57

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Operation Band :LTE B5 10M QPSK RB1,0
Fundamental Frequency :844 MHz
Operation Mode :TX CH HIGH
EUT Pol. :H Plan

Test Date :2019-04-02
Temp./Humi. :25/60
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



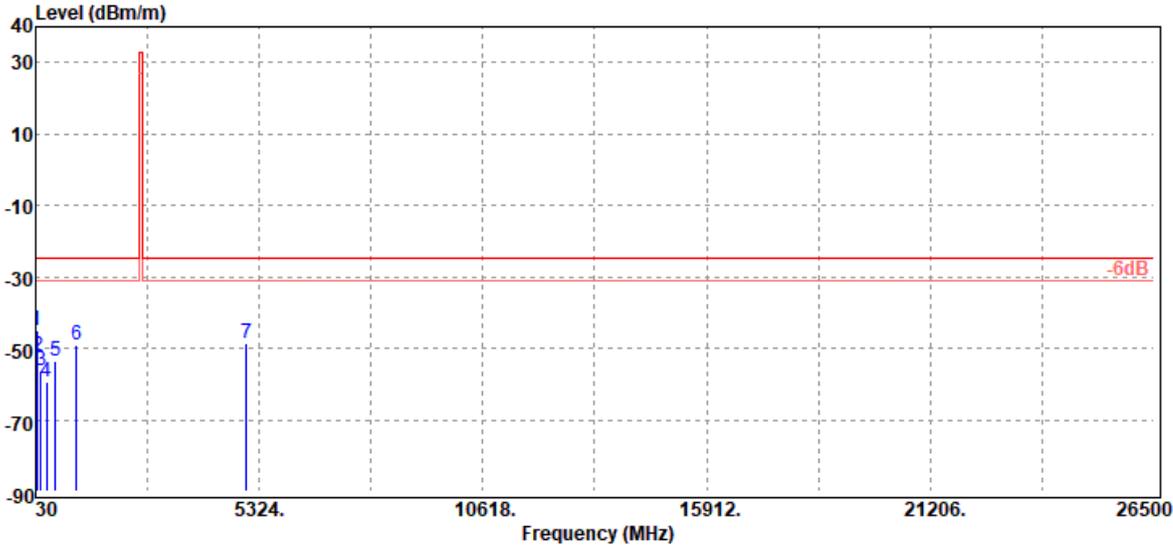
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-56.71	-26.21	-30.05	-0.45	-13.00	-43.71
65.89	-66.28	-55.55	-10.06	-0.67	-13.00	-53.28
179.38	-56.09	-50.48	-4.51	-1.10	-13.00	-43.09
248.25	-56.54	-53.42	-1.82	-1.30	-13.00	-43.54
268.62	-56.41	-52.56	-2.50	-1.35	-13.00	-43.41
287.05	-53.81	-50.08	-2.33	-1.40	-13.00	-40.81
1688.00	-59.57	-65.91	9.93	-3.59	-13.00	-46.57
2532.00	-51.72	-57.93	10.80	-4.59	-13.00	-38.72

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Radiated Spurious Emission Measurement Result: LTE-Band 7 (The Worst Case)

Operation Band	:LTE B7 20M QPSK RB1,0	Test Date	:2019-04-02
Fundamental Frequency	:2510 MHz	Temp./Humi.	:25/60
Operation Mode	:TX CH LOW	Engineer	:Jerry
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL



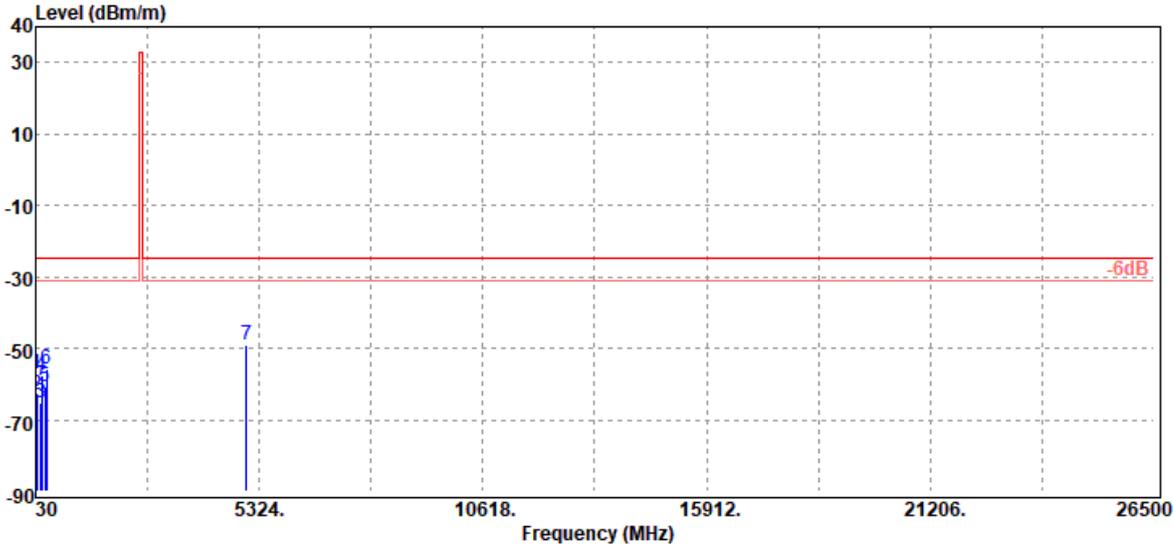
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
62.01	-44.84	-33.91	-10.27	-0.66	-25.00	-19.84
68.80	-52.24	-41.79	-9.77	-0.68	-25.00	-27.24
155.13	-56.12	-48.35	-6.74	-1.03	-25.00	-31.12
288.02	-59.34	-55.67	-2.27	-1.40	-25.00	-34.34
498.51	-53.76	-49.91	-1.98	-1.87	-25.00	-28.76
996.12	-49.24	-45.2	-1.37	-2.67	-25.00	-24.24
5020.00	-48.75	-54.6	12.46	-6.61	-25.00	-23.75

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Operation Band :LTE B7 20M QPSK RB1,0
Fundamental Frequency :2510 MHz
Operation Mode :TX CH LOW
EUT Pol. :H Plan

Test Date :2019-04-02
Temp./Humi. :25/60
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-57.33	-26.83	-30.05	-0.45	-25.00	-32.33
54.25	-63.07	-51.7	-10.75	-0.62	-25.00	-38.07
151.25	-65.14	-57.08	-7.05	-1.01	-25.00	-40.14
182.29	-57.56	-52.18	-4.27	-1.11	-25.00	-32.56
246.31	-60.68	-57.49	-1.90	-1.29	-25.00	-35.68
282.20	-56.00	-52.1	-2.51	-1.39	-25.00	-31.00
5020.00	-49.21	-55.06	12.46	-6.61	-25.00	-24.21

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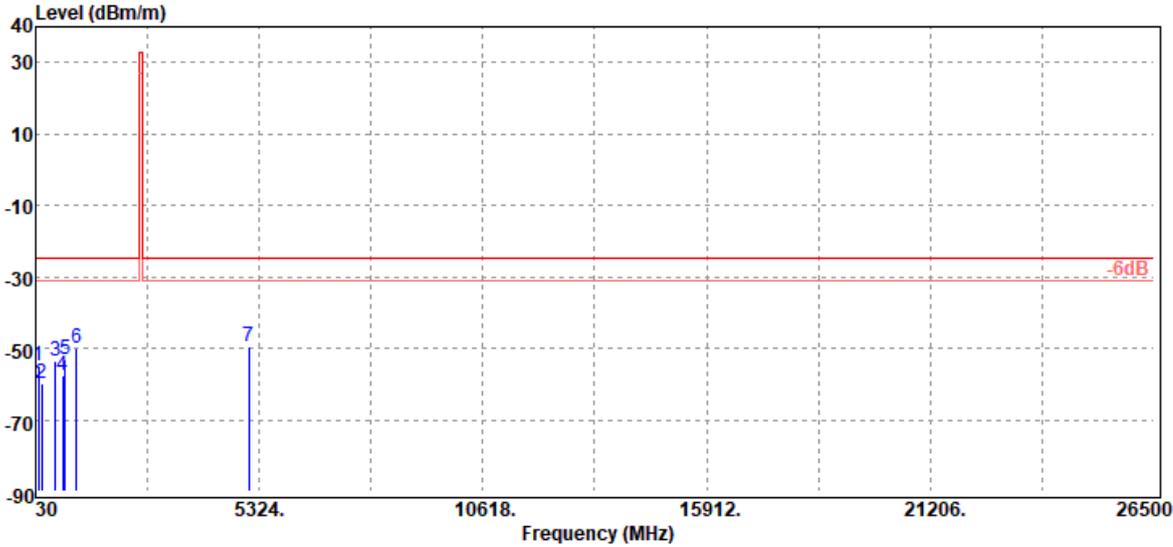
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Member of the SGS Group (SGS SA)

Operation Band :LTE B7 20M QPSK RB1,0
Fundamental Frequency :2535 MHz
Operation Mode :TX CH MID
EUT Pol. :H Plan

Test Date :2019-04-02
Temp./Humi. :25/60
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



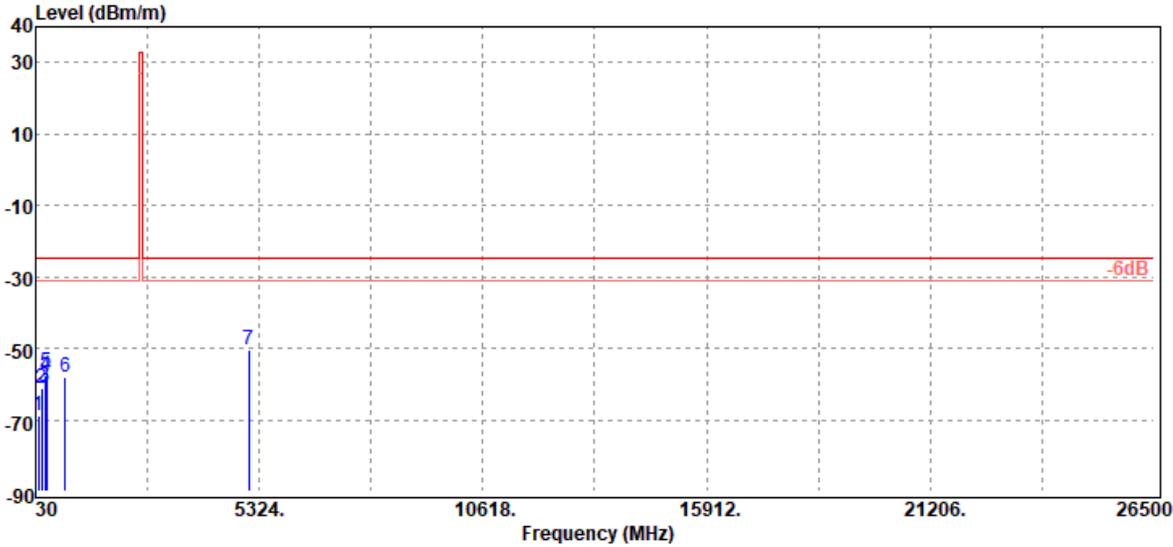
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
89.17	-55.05	-47.07	-7.20	-0.78	-25.00	-30.05
181.32	-59.94	-54.49	-4.34	-1.11	-25.00	-34.94
499.48	-53.75	-49.92	-1.96	-1.87	-25.00	-28.75
665.35	-57.83	-54.21	-1.45	-2.17	-25.00	-32.83
729.37	-53.26	-49.62	-1.36	-2.28	-25.00	-28.26
996.12	-50.19	-46.15	-1.37	-2.67	-25.00	-25.19
5070.00	-49.54	-55.27	12.48	-6.75	-25.00	-24.54

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Operation Band :LTE B7 20M QPSK RB1,0
Fundamental Frequency :2535 MHz
Operation Mode :TX CH MID
EUT Pol. :H Plan

Test Date :2019-04-02
Temp./Humi. :25/60
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
102.75	-69.08	-59.34	-8.91	-0.83	-25.00	-44.08
182.29	-61.03	-55.65	-4.27	-1.11	-25.00	-36.03
248.25	-60.98	-57.86	-1.82	-1.30	-25.00	-35.98
278.32	-57.46	-53.5	-2.58	-1.38	-25.00	-32.46
287.05	-56.55	-52.82	-2.33	-1.40	-25.00	-31.55
729.37	-57.85	-54.21	-1.36	-2.28	-25.00	-32.85
5070.00	-50.20	-55.93	12.48	-6.75	-25.00	-25.20

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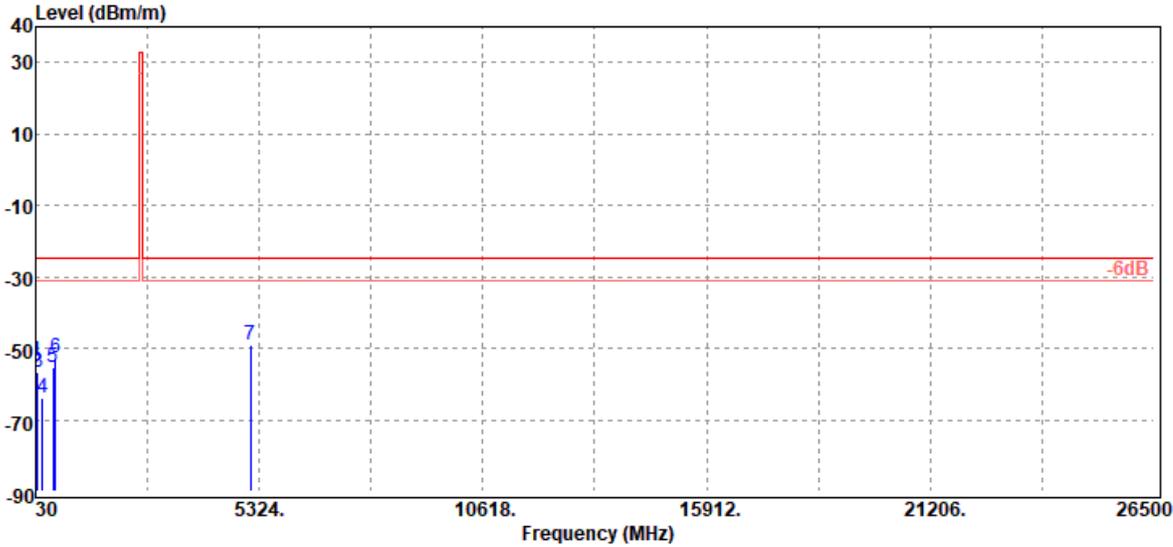
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Operation Band :LTE B7 20M QPSK RB1,0
Fundamental Frequency :2560 MHz
Operation Mode :TX CH HIGH
EUT Pol. :H Plan

Test Date :2019-04-02
Temp./Humi. :25/60
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-53.51	-23.01	-30.05	-0.45	-25.00	-28.51
44.55	-56.58	-40.18	-15.84	-0.56	-25.00	-31.58
78.50	-56.58	-47.19	-8.66	-0.73	-25.00	-31.58
183.26	-63.83	-58.52	-4.19	-1.12	-25.00	-38.83
450.01	-55.38	-51.57	-2.05	-1.76	-25.00	-30.38
499.48	-52.84	-49.01	-1.96	-1.87	-25.00	-27.84
5120.00	-48.93	-54.82	12.64	-6.75	-25.00	-23.93

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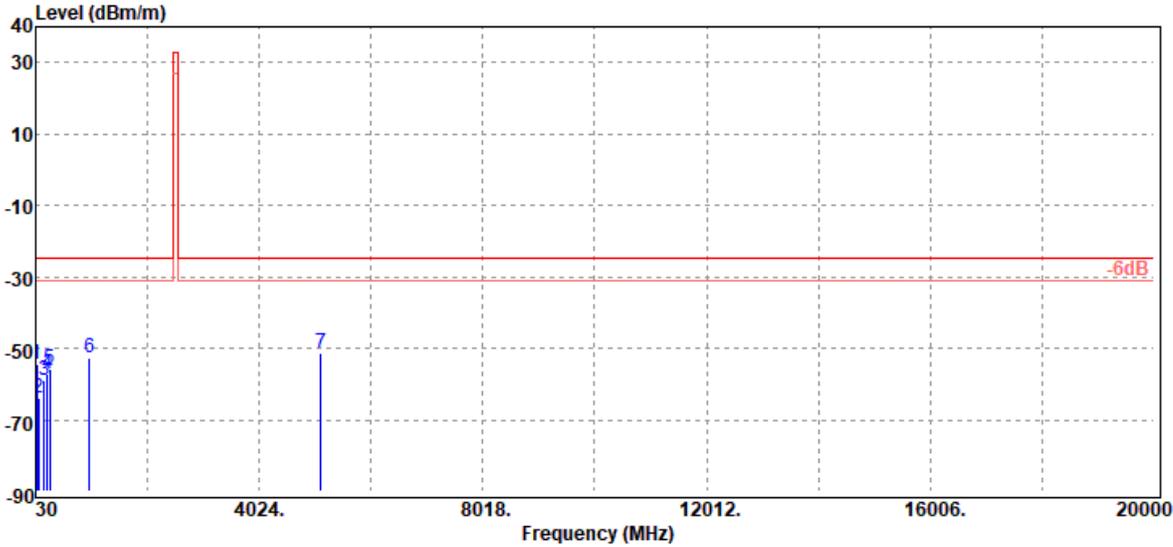
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Member of the SGS Group (SGS SA)

Operation Band :LTE B7 20M QPSK RB1,0
 Fundamental Frequency :2560 MHz
 Operation Mode :TX CH HIGH
 EUT Pol. :H Plan

Test Date :2019-04-02
 Temp./Humi. :25/60
 Engineer :Jerry
 Measurement Antenna Pol. :HORIZONTAL



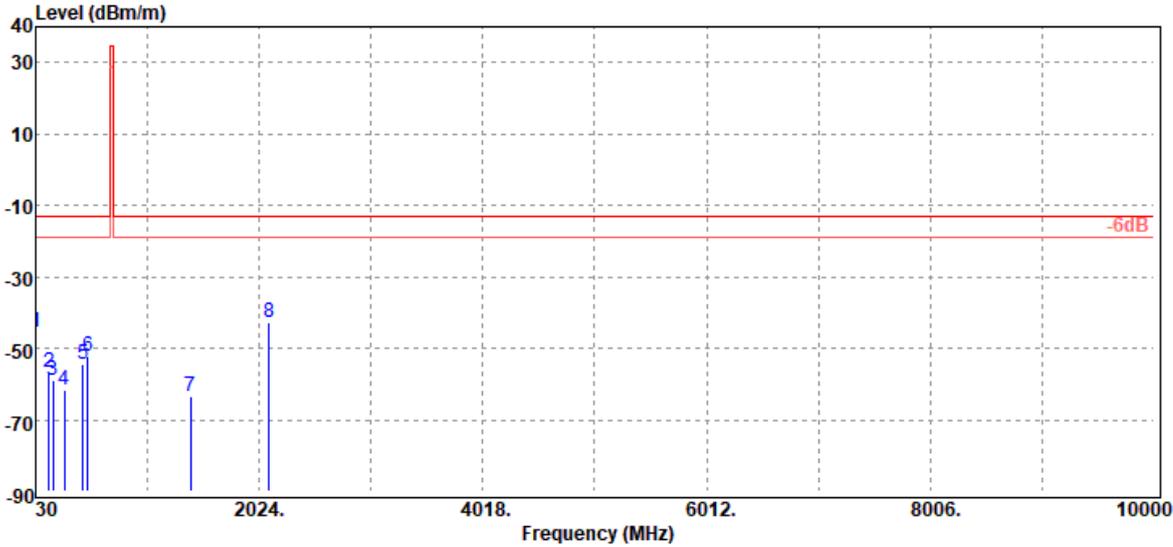
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
51.34	-54.48	-42.32	-11.56	-0.60	-25.00	-29.48
77.53	-64.03	-54.51	-8.79	-0.73	-25.00	-39.03
182.29	-58.96	-53.58	-4.27	-1.11	-25.00	-33.96
241.46	-56.97	-53.6	-2.09	-1.28	-25.00	-31.97
284.14	-55.85	-51.99	-2.47	-1.39	-25.00	-30.85
997.09	-52.77	-48.7	-1.39	-2.68	-25.00	-27.77
5120.00	-51.53	-57.42	12.64	-6.75	-25.00	-26.53

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Radiated Spurious Emission Measurement Result: LTE-Band 12 (The Worst Case)

Operation Band	:LTE B12 10M QPSK RB1,0	Test Date	:2019-04-02
Fundamental Frequency	:704 MHz	Temp./Humi.	:25/60
Operation Mode	:TX CH LOW	Engineer	:Kane
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
34.85	-45.31	-19.43	-25.38	-0.50	-13.00	-32.31
150.28	-56.85	-48.71	-7.13	-1.01	-13.00	-43.85
184.23	-59.14	-53.91	-4.11	-1.12	-13.00	-46.14
288.99	-61.83	-58.21	-2.21	-1.41	-13.00	-48.83
454.86	-54.39	-50.57	-2.05	-1.77	-13.00	-41.39
498.51	-52.31	-48.46	-1.98	-1.87	-13.00	-39.31
1408.00	-63.36	-68.16	8.05	-3.25	-13.00	-50.36
2112.00	-42.72	-48.33	9.70	-4.09	-13.00	-29.72

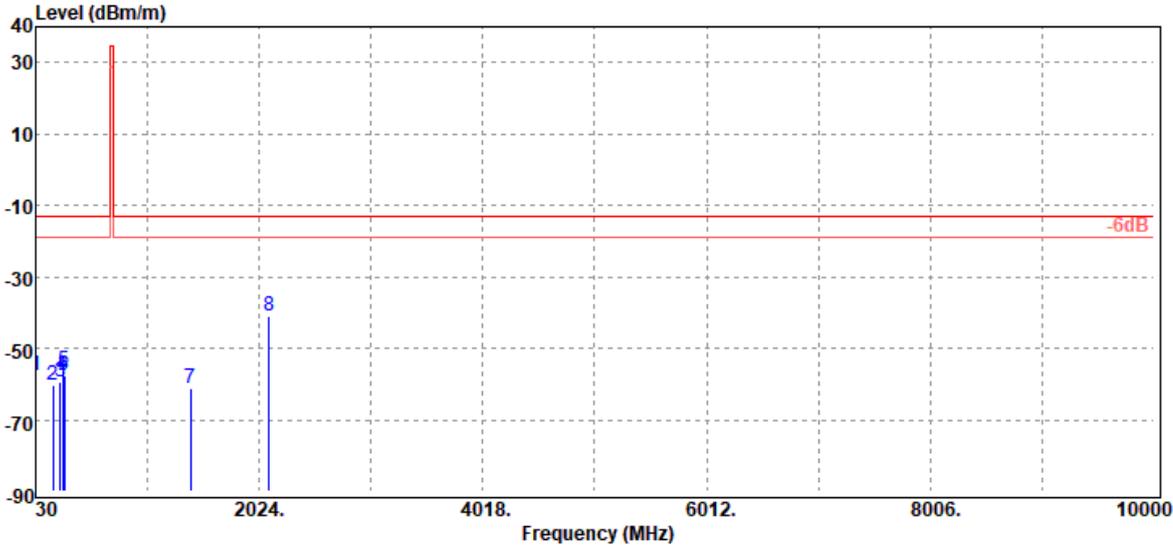
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Operation Band :LTE B12 10M QPSK RB1,0
 Fundamental Frequency :704 MHz
 Operation Mode :TX CH LOW
 EUT Pol. :H Plan

Test Date :2019-04-02
 Temp./Humi. :25/60
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



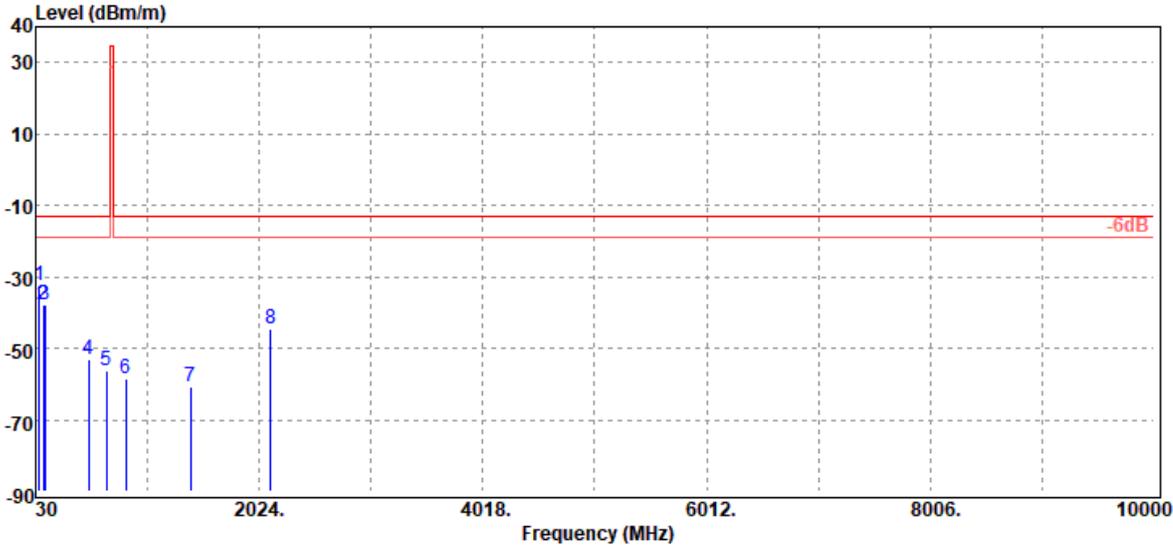
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-57.45	-26.95	-30.05	-0.45	-13.00	-44.45
183.26	-60.52	-55.21	-4.19	-1.12	-13.00	-47.52
247.28	-59.51	-56.35	-1.86	-1.30	-13.00	-46.51
270.56	-57.62	-53.7	-2.56	-1.36	-13.00	-44.62
281.23	-56.08	-52.16	-2.53	-1.39	-13.00	-43.08
288.02	-57.78	-54.11	-2.27	-1.40	-13.00	-44.78
1408.00	-61.09	-65.89	8.05	-3.25	-13.00	-48.09
2112.00	-40.84	-46.45	9.70	-4.09	-13.00	-27.84

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Operation Band :LTE B12 10M QPSK RB1,0
Fundamental Frequency :707.5 MHz
Operation Mode :TX CH MID
EUT Pol. :H Plan

Test Date :2019-04-02
Temp./Humi. :25/60
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



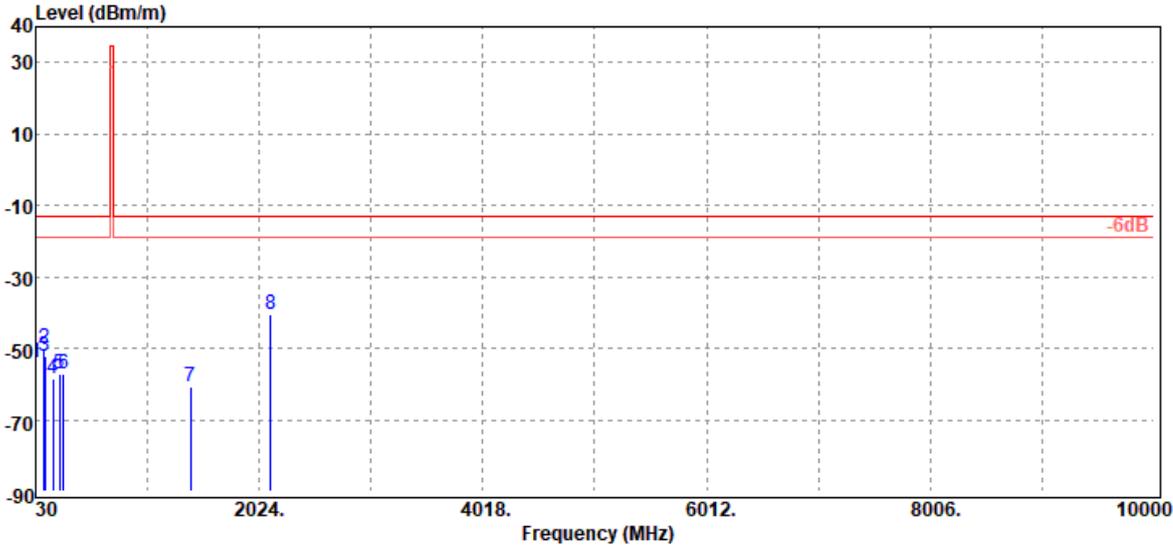
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
63.95	-32.53	-21.68	-10.19	-0.66	-13.00	-19.53
98.87	-38.01	-29.08	-8.11	-0.82	-13.00	-25.01
113.42	-38.02	-26.89	-10.26	-0.87	-13.00	-25.02
500.45	-53.33	-49.52	-1.94	-1.87	-13.00	-40.33
664.38	-56.35	-52.73	-1.45	-2.17	-13.00	-43.35
833.16	-58.35	-54.41	-1.49	-2.45	-13.00	-45.35
1415.00	-60.65	-65.48	8.09	-3.26	-13.00	-47.65
2122.50	-44.71	-50.22	9.62	-4.11	-13.00	-31.71

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Operation Band :LTE B12 10M QPSK RB1,0
Fundamental Frequency :707.5 MHz
Operation Mode :TX CH MID
EUT Pol. :H Plan

Test Date :2019-04-02
Temp./Humi. :25/60
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.97	-53.81	-24.29	-29.06	-0.46	-13.00	-40.81
106.63	-50.04	-39.67	-9.52	-0.85	-13.00	-37.04
109.54	-52.20	-41.54	-9.80	-0.86	-13.00	-39.20
185.20	-58.42	-53.25	-4.05	-1.12	-13.00	-45.42
241.46	-57.39	-54.02	-2.09	-1.28	-13.00	-44.39
282.20	-57.14	-53.24	-2.51	-1.39	-13.00	-44.14
1415.00	-60.73	-65.56	8.09	-3.26	-13.00	-47.73
2122.50	-40.68	-46.19	9.62	-4.11	-13.00	-27.68

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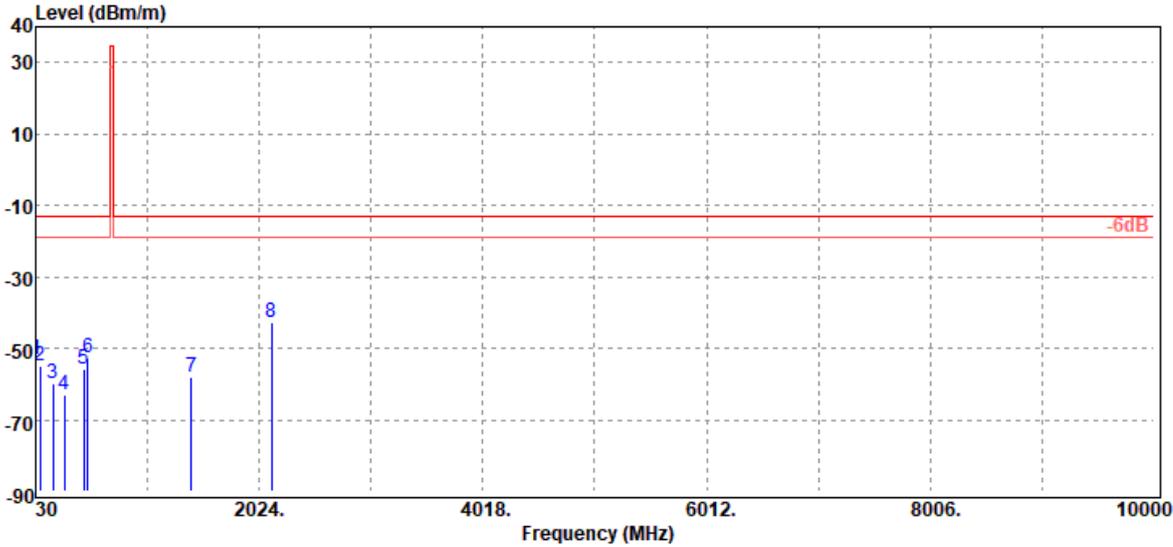
程智科技股份有限公司

t:(886-2) 2299-9720 f:(886-2) 2298-1882 www.sgs.tw www.ccsrf.com

Member of the SGS Group (SGS SA)

Operation Band :LTE B12 10M QPSK RB1,0
Fundamental Frequency :711 MHz
Operation Mode :TX CH HIGH
EUT Pol. :H Plan

Test Date :2019-04-02
Temp./Humi. :25/60
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-52.96	-22.46	-30.05	-0.45	-13.00	-39.96
71.71	-55.10	-44.92	-9.48	-0.70	-13.00	-42.10
185.20	-59.68	-54.51	-4.05	-1.12	-13.00	-46.68
287.05	-62.96	-59.23	-2.33	-1.40	-13.00	-49.96
458.74	-55.72	-51.89	-2.05	-1.78	-13.00	-42.72
497.54	-52.47	-48.61	-2.00	-1.86	-13.00	-39.47
1422.00	-58.17	-63.03	8.13	-3.27	-13.00	-45.17
2133.00	-42.82	-48.23	9.53	-4.12	-13.00	-29.82

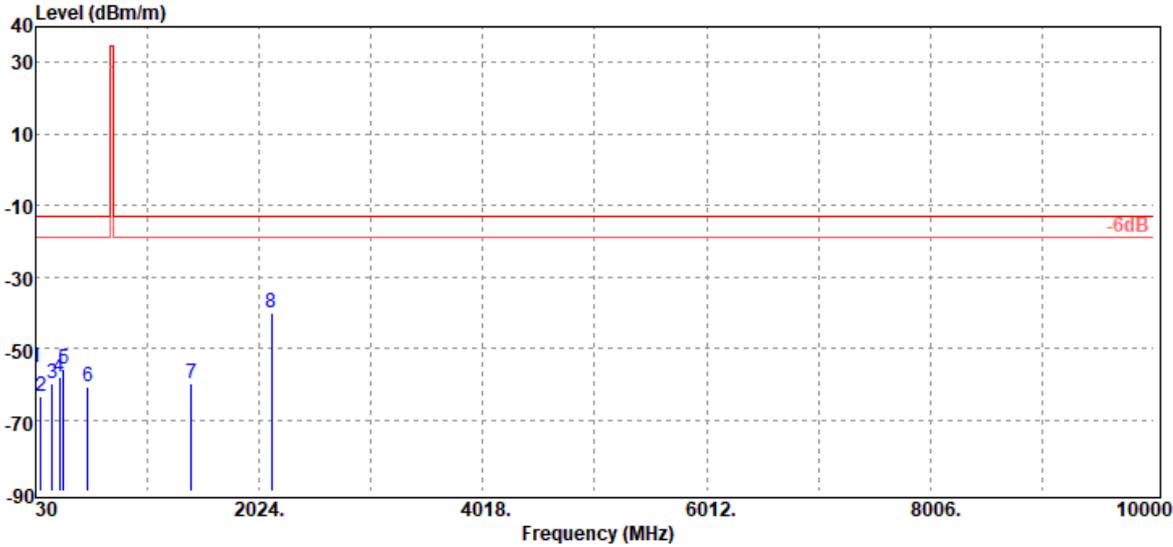
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Operation Band :LTE B12 10M QPSK RB1,0
 Fundamental Frequency :711 MHz
 Operation Mode :TX CH HIGH
 EUT Pol. :H Plan

Test Date :2019-04-02
 Temp./Humi. :25/60
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



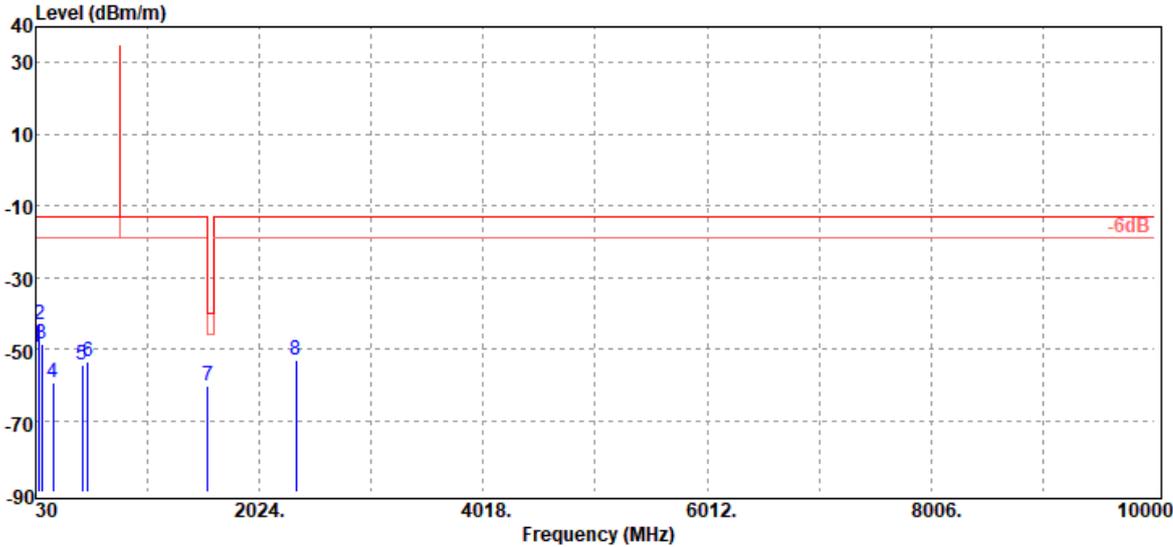
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.97	-55.23	-25.71	-29.06	-0.46	-13.00	-42.23
75.59	-63.44	-53.65	-9.07	-0.72	-13.00	-50.44
181.32	-59.75	-54.3	-4.34	-1.11	-13.00	-46.75
246.31	-58.14	-54.95	-1.90	-1.29	-13.00	-45.14
276.38	-55.85	-51.86	-2.62	-1.37	-13.00	-42.85
498.51	-60.93	-57.08	-1.98	-1.87	-13.00	-47.93
1422.00	-59.65	-64.51	8.13	-3.27	-13.00	-46.65
2133.00	-40.28	-45.69	9.53	-4.12	-13.00	-27.28

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Radiated Spurious Emission Measurement Result: LTE-Band 13 (The Worst Case)

Operation Band	:LTE B13 10M QPSK RB1,49	Test Date	:2019-04-02
Fundamental Frequency	:782 MHz	Temp./Humi.	:25/60
Operation Mode	:TX CH MID	Engineer	:Kane
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL



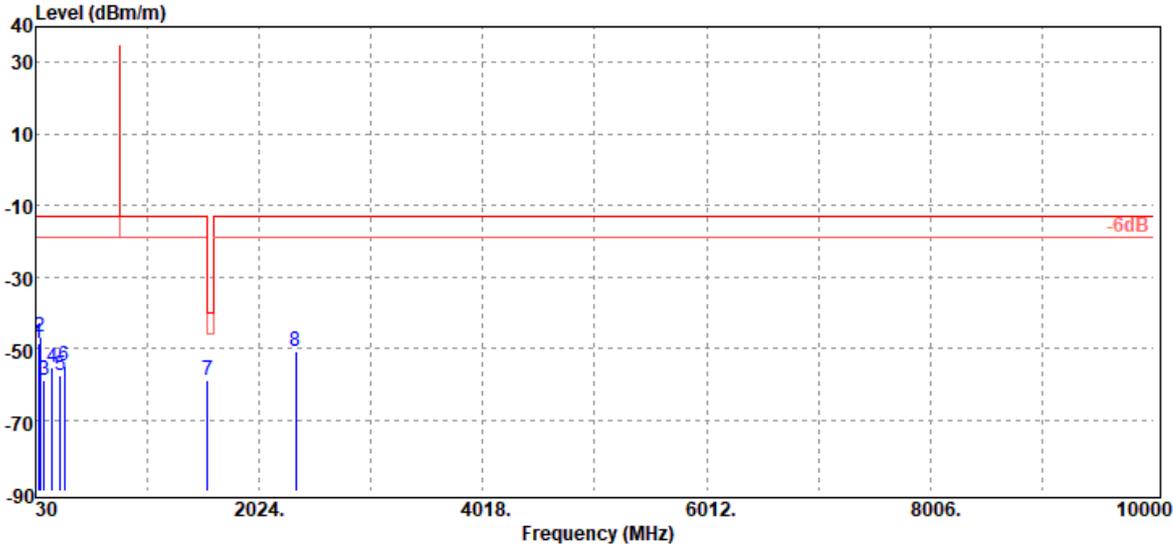
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-49.60	-19.1	-30.05	-0.45	-13.00	-36.60
63.95	-43.35	-32.5	-10.19	-0.66	-13.00	-30.35
87.23	-48.77	-40.46	-7.54	-0.77	-13.00	-35.77
182.29	-59.44	-54.06	-4.27	-1.11	-13.00	-46.44
444.19	-54.64	-50.84	-2.05	-1.75	-13.00	-41.64
498.51	-53.68	-49.83	-1.98	-1.87	-13.00	-40.68
1564.00	-60.11	-66.04	9.38	-3.45	-40.00	-20.11
2346.00	-53.10	-58.61	9.87	-4.36	-13.00	-40.10

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Operation Band :LTE B13 10M QPSK RB1,49
 Fundamental Frequency :782 MHz
 Operation Mode :TX CH MID
 EUT Pol. :H Plan

Test Date :2019-04-02
 Temp./Humi. :25/60
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



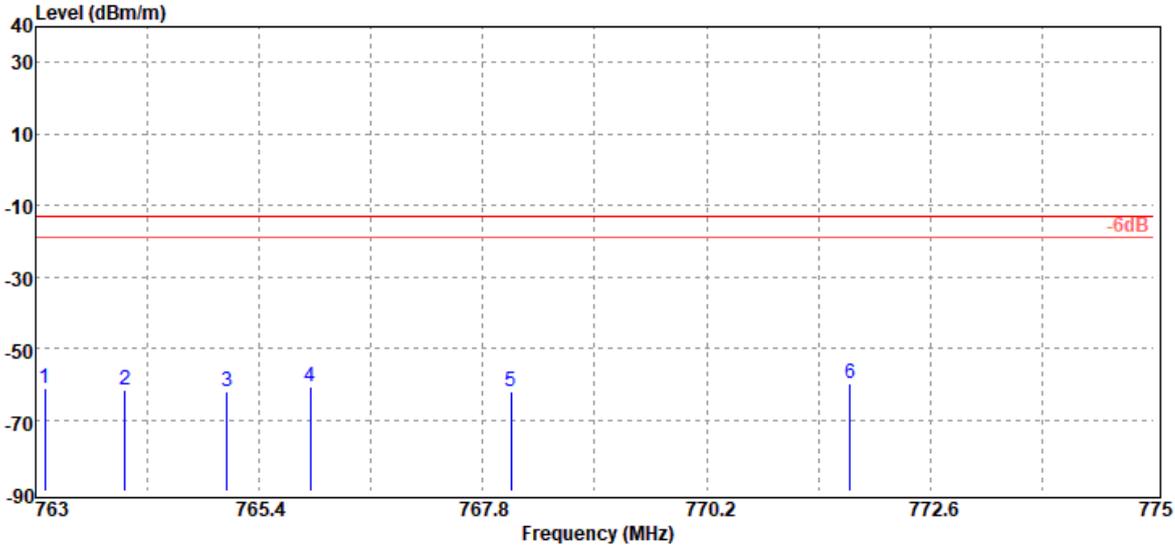
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
57.16	-48.48	-37.39	-10.46	-0.63	-13.00	-35.48
70.74	-47.04	-36.78	-9.57	-0.69	-13.00	-34.04
103.72	-58.88	-48.94	-9.10	-0.84	-13.00	-45.88
181.32	-55.42	-49.97	-4.34	-1.11	-13.00	-42.42
248.25	-57.52	-54.4	-1.82	-1.30	-13.00	-44.52
288.02	-54.77	-51.1	-2.27	-1.40	-13.00	-41.77
1564.00	-59.16	-65.09	9.38	-3.45	-40.00	-19.16
2346.00	-50.97	-56.48	9.87	-4.36	-13.00	-37.97

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Radiated Spurious Emission Measurement Result: LTE-Band 13 (763~775MHz)

Operation Band	:LTE B13 10M QPSK RB1,49	Test Date	:2019-04-02
Fundamental Frequency	:782 MHz	Temp./Humi.	:25/60
Operation Mode	:TX CH MID	Engineer	:Kane
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL



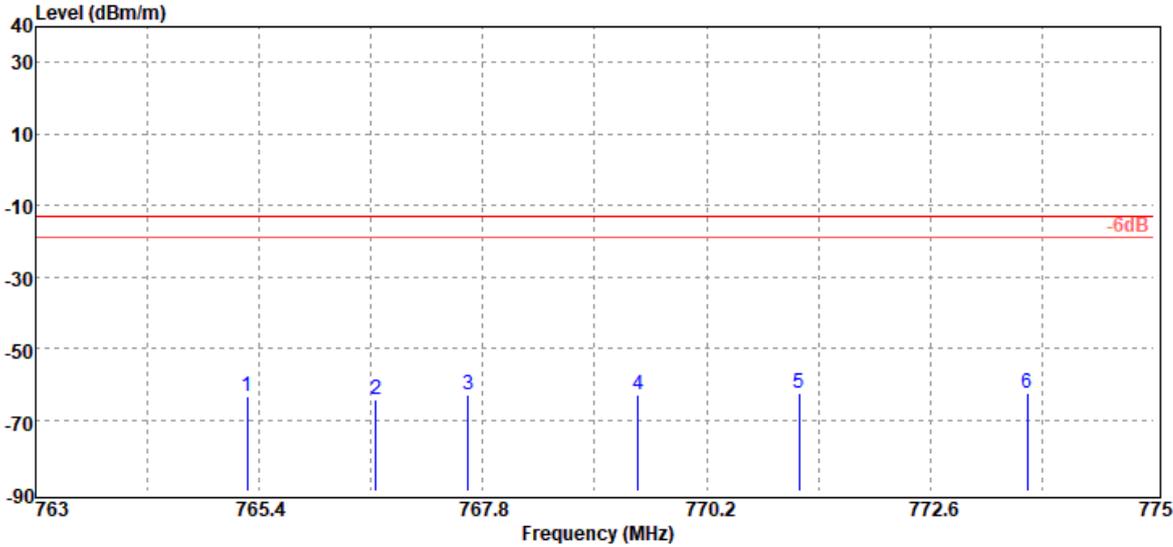
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
763.10	-61.17	-57.45	-1.39	-2.33	-13.00	-48.17
763.96	-61.53	-57.83	-1.37	-2.33	-13.00	-48.53
765.05	-61.92	-58.24	-1.35	-2.33	-13.00	-48.92
765.95	-60.64	-56.96	-1.35	-2.33	-13.00	-47.64
768.10	-62.28	-58.6	-1.35	-2.33	-13.00	-49.28
771.74	-59.89	-56.18	-1.38	-2.33	-13.00	-46.89

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Operation Band :LTE B13 10M QPSK RB1,49
Fundamental Frequency :782 MHz
Operation Mode :TX CH MID
EUT Pol. :H Plan

Test Date :2019-04-02
Temp./Humi. :25/60
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



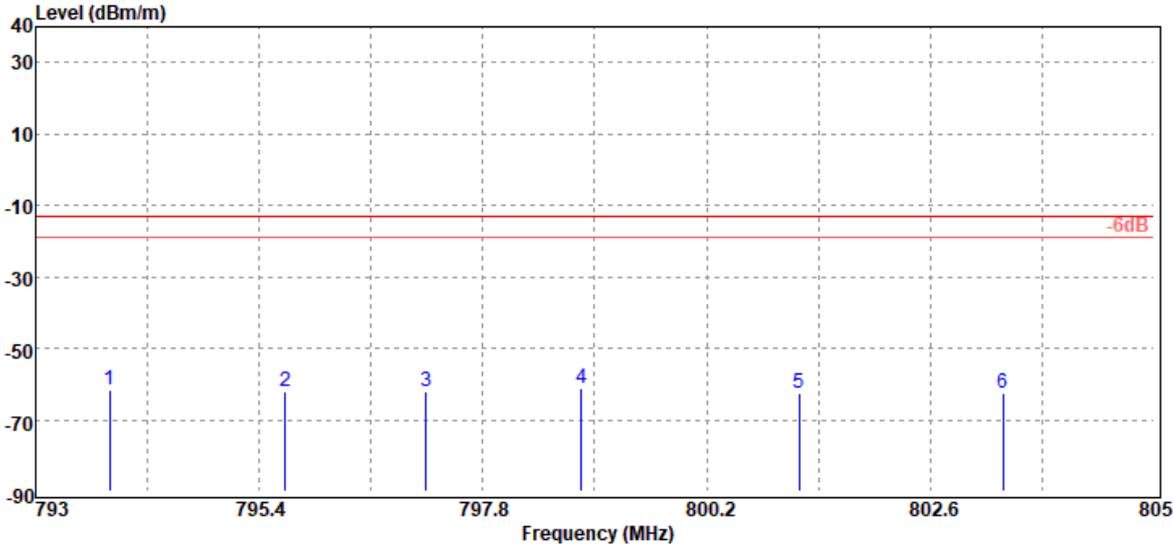
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
765.27	-63.68	-60	-1.35	-2.33	-13.00	-50.68
766.65	-64.24	-60.56	-1.35	-2.33	-13.00	-51.24
767.64	-63.13	-59.45	-1.35	-2.33	-13.00	-50.13
769.47	-63.01	-59.33	-1.35	-2.33	-13.00	-50.01
771.20	-62.59	-58.89	-1.37	-2.33	-13.00	-49.59
773.64	-62.72	-58.96	-1.42	-2.34	-13.00	-49.72

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Radiated Spurious Emission Measurement Result: LTE-Band 13 (793~805MHz)

Operation Band	:LTE B13 10M QPSK RB1,49	Test Date	:2019-04-02
Fundamental Frequency	:782 MHz	Temp./Humi.	:25/60
Operation Mode	:TX CH MID	Engineer	:Kane
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
793.79	-61.72	-58.11	-1.25	-2.36	-13.00	-48.72
795.68	-62.10	-58.48	-1.25	-2.37	-13.00	-49.10
797.19	-62.20	-58.58	-1.25	-2.37	-13.00	-49.20
798.86	-61.39	-57.77	-1.25	-2.37	-13.00	-48.39
801.20	-62.60	-58.92	-1.30	-2.38	-13.00	-49.60
803.38	-62.62	-58.85	-1.39	-2.38	-13.00	-49.62

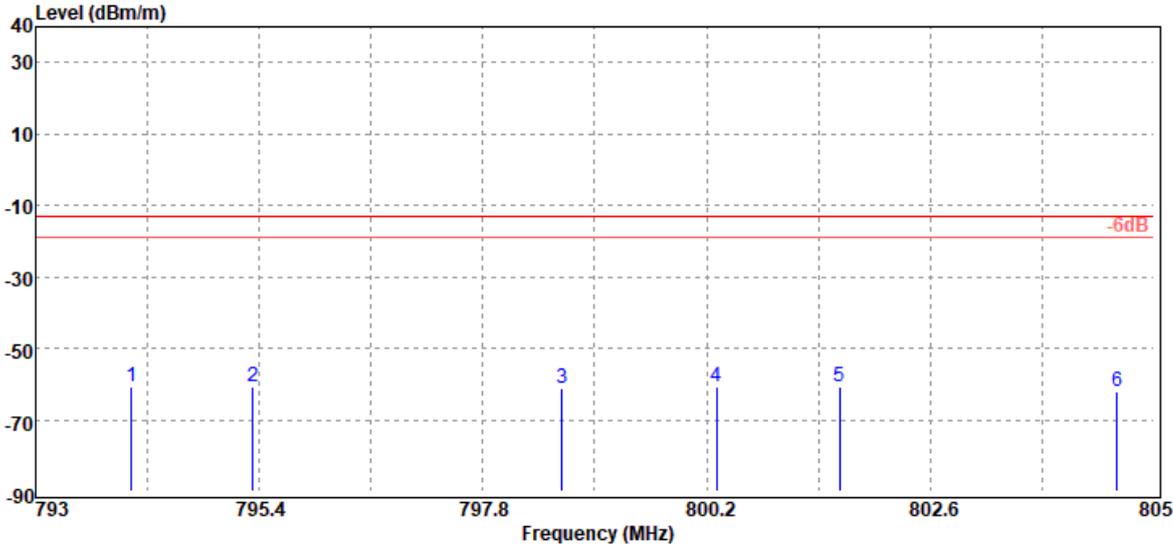
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Operation Band :LTE B13 10M QPSK RB1,49
Fundamental Frequency :782 MHz
Operation Mode :TX CH MID
EUT Pol. :H Plan

Test Date :2019-04-02
Temp./Humi. :25/60
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



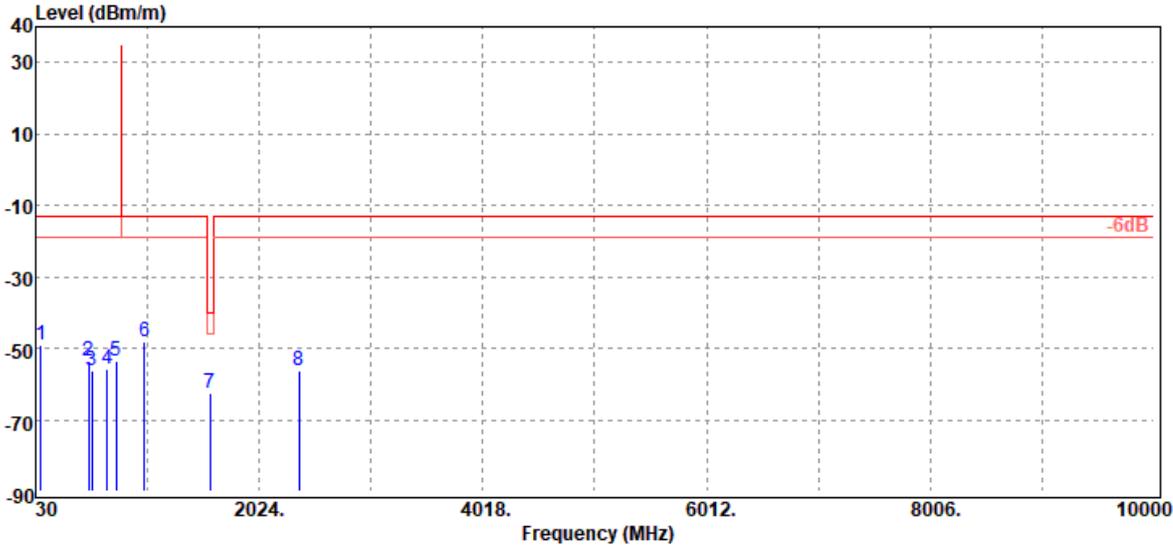
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
794.03	-60.93	-57.32	-1.25	-2.36	-13.00	-47.93
795.33	-60.83	-57.21	-1.25	-2.37	-13.00	-47.83
798.65	-61.33	-57.71	-1.25	-2.37	-13.00	-48.33
800.31	-60.96	-57.32	-1.26	-2.38	-13.00	-47.96
801.63	-60.85	-57.15	-1.32	-2.38	-13.00	-47.85
804.60	-62.22	-58.4	-1.43	-2.39	-13.00	-49.22

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Radiated Spurious Emission Measurement Result: LTE-Band 14 (The Worst Case)

Operation Band	:LTE B14 10M QPSK RB1,49	Test Date	:2019-04-02
Fundamental Frequency	:793 MHz	Temp./Humi.	:25/60
Operation Mode	:TX CH MID	Engineer	:Kane
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL



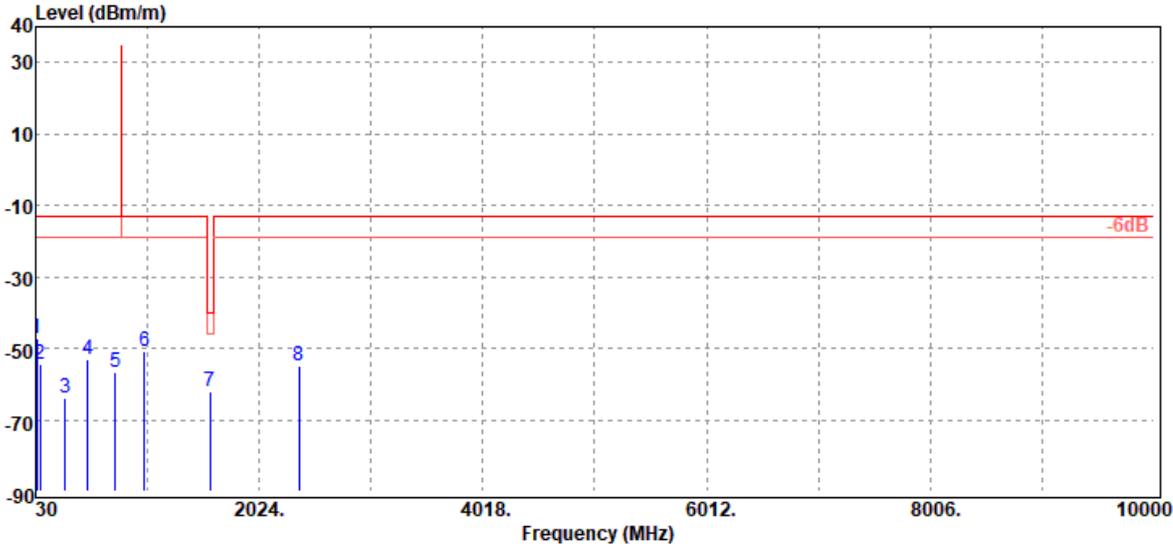
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
78.50	-49.07	-39.68	-8.66	-0.73	-13.00	-36.07
499.48	-53.73	-49.9	-1.96	-1.87	-13.00	-40.73
534.40	-56.08	-52.89	-1.26	-1.93	-13.00	-43.08
665.35	-56.00	-52.38	-1.45	-2.17	-13.00	-43.00
745.86	-53.35	-49.68	-1.37	-2.30	-13.00	-40.35
998.06	-48.14	-44.05	-1.41	-2.68	-13.00	-35.14
1586.00	-62.40	-68.45	9.52	-3.47	-40.00	-22.40
2379.00	-56.18	-61.91	10.13	-4.40	-13.00	-43.18

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Operation Band :LTE B14 10M QPSK RB1,49
 Fundamental Frequency :793 MHz
 Operation Mode :TX CH MID
 EUT Pol. :H Plan

Test Date :2019-04-02
 Temp./Humi. :25/60
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



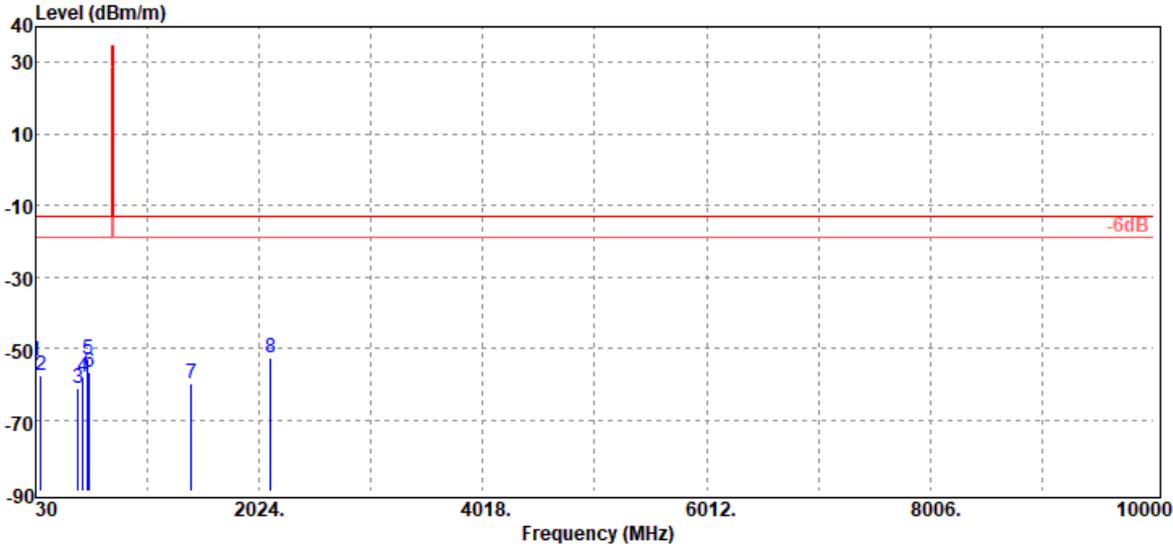
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
41.64	-47.23	-28.21	-18.48	-0.54	-13.00	-34.23
70.74	-54.54	-44.28	-9.57	-0.69	-13.00	-41.54
289.96	-63.73	-60.17	-2.15	-1.41	-13.00	-50.73
498.51	-52.91	-49.06	-1.98	-1.87	-13.00	-39.91
738.10	-56.50	-52.86	-1.35	-2.29	-13.00	-43.50
999.03	-50.93	-46.82	-1.43	-2.68	-13.00	-37.93
1586.00	-62.15	-68.2	9.52	-3.47	-40.00	-22.15
2379.00	-54.87	-60.6	10.13	-4.40	-13.00	-41.87

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Radiated Spurious Emission Measurement Result: LTE-Band 17 (The Worst Case)

Operation Band	:LTE B17 10M QPSK RB1,0	Test Date	:2019-04-02
Fundamental Frequency	:709 MHz	Temp./Humi.	:25/60
Operation Mode	:TX CH LOW	Engineer	:Kane
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-53.57	-23.07	-30.05	-0.45	-13.00	-40.57
78.50	-57.81	-48.42	-8.66	-0.73	-13.00	-44.81
406.36	-61.29	-57.87	-1.75	-1.67	-13.00	-48.29
452.92	-58.21	-54.39	-2.05	-1.77	-13.00	-45.21
498.51	-53.09	-49.24	-1.98	-1.87	-13.00	-40.09
511.12	-56.74	-53.24	-1.61	-1.89	-13.00	-43.74
1418.00	-59.92	-64.76	8.11	-3.27	-13.00	-46.92
2127.00	-52.83	-58.3	9.58	-4.11	-13.00	-39.83

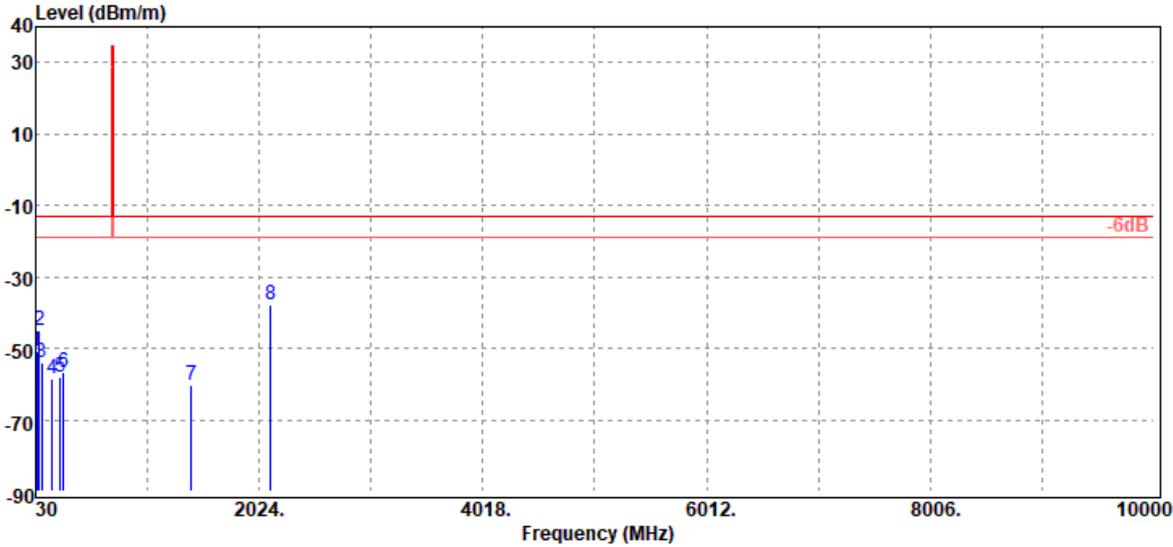
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Operation Band :LTE B17 10M QPSK RB1,0
Fundamental Frequency :709 MHz
Operation Mode :TX CH LOW
EUT Pol. :H Plan

Test Date :2019-04-02
Temp./Humi. :25/60
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



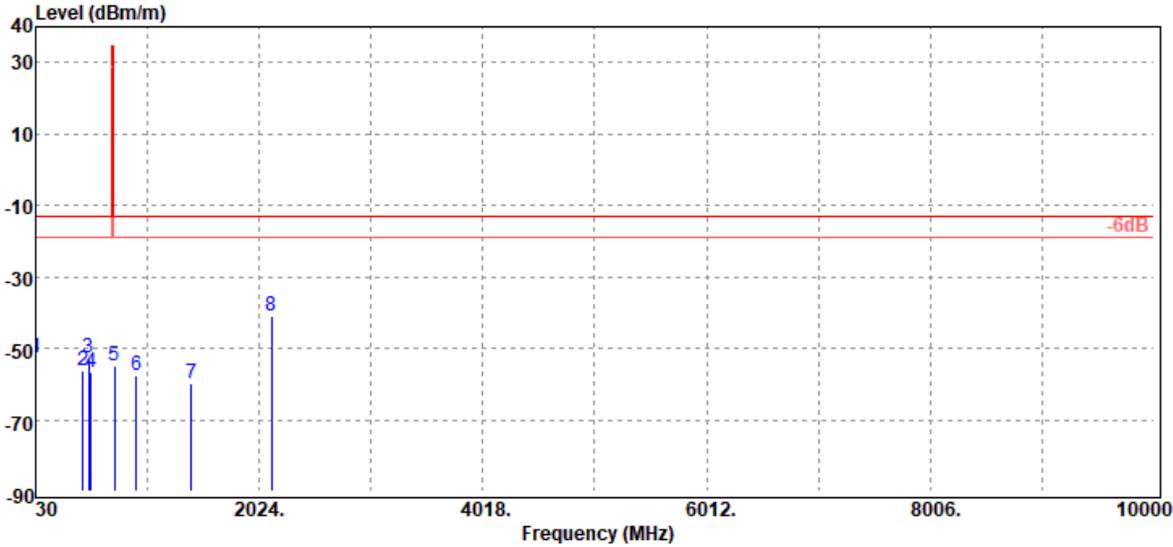
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
43.58	-51.00	-33.74	-16.70	-0.56	-13.00	-38.00
65.89	-44.98	-34.25	-10.06	-0.67	-13.00	-31.98
87.23	-53.96	-45.65	-7.54	-0.77	-13.00	-40.96
181.32	-58.54	-53.09	-4.34	-1.11	-13.00	-45.54
248.25	-58.21	-55.09	-1.82	-1.30	-13.00	-45.21
282.20	-56.80	-52.9	-2.51	-1.39	-13.00	-43.80
1418.00	-60.29	-65.13	8.11	-3.27	-13.00	-47.29
2127.00	-37.93	-43.4	9.58	-4.11	-13.00	-24.93

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Operation Band :LTE B17 10M QPSK RB1,0
Fundamental Frequency :710 MHz
Operation Mode :TX CH MID
EUT Pol. :H Plan

Test Date :2019-04-02
Temp./Humi. :25/60
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



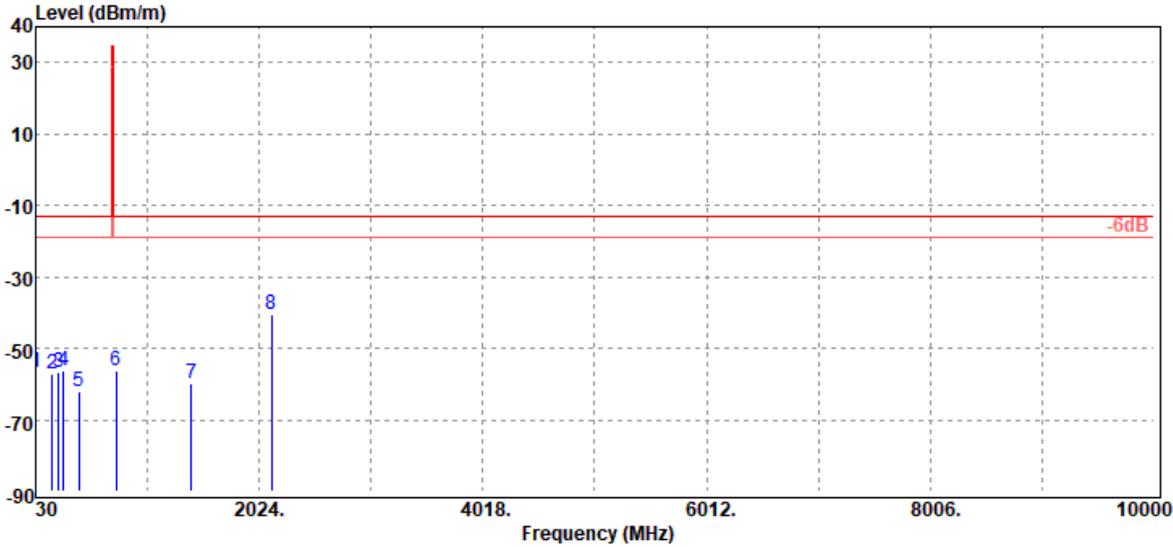
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-52.50	-22	-30.05	-0.45	-13.00	-39.50
451.95	-56.08	-52.27	-2.05	-1.76	-13.00	-43.08
499.48	-52.55	-48.72	-1.96	-1.87	-13.00	-39.55
526.64	-56.68	-53.41	-1.35	-1.92	-13.00	-43.68
731.31	-55.03	-51.4	-1.35	-2.28	-13.00	-42.03
931.13	-57.61	-53.75	-1.27	-2.59	-13.00	-44.61
1420.00	-60.07	-64.92	8.12	-3.27	-13.00	-47.07
2130.00	-41.01	-46.45	9.56	-4.12	-13.00	-28.01

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Operation Band :LTE B17 10M QPSK RB1,0
Fundamental Frequency :710 MHz
Operation Mode :TX CH MID
EUT Pol. :H Plan

Test Date :2019-04-02
Temp./Humi. :25/60
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



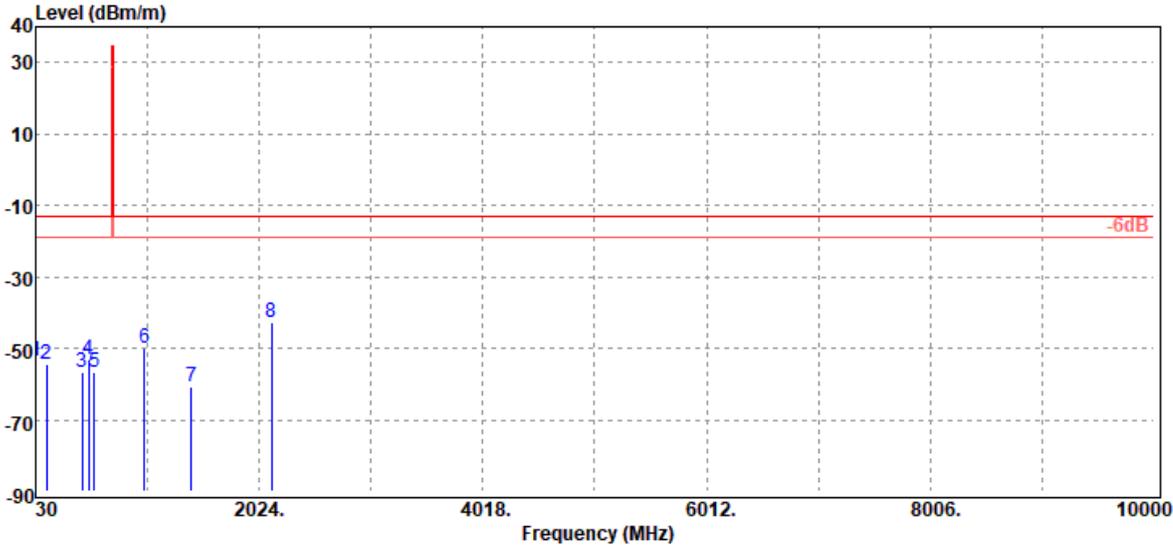
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-56.80	-26.3	-30.05	-0.45	-13.00	-43.80
181.32	-57.27	-51.82	-4.34	-1.11	-13.00	-44.27
236.61	-56.92	-53.5	-2.15	-1.27	-13.00	-43.92
280.26	-56.18	-52.26	-2.54	-1.38	-13.00	-43.18
413.15	-62.24	-58.74	-1.81	-1.69	-13.00	-49.24
745.86	-56.47	-52.8	-1.37	-2.30	-13.00	-43.47
1420.00	-60.00	-64.85	8.12	-3.27	-13.00	-47.00
2130.00	-40.71	-46.15	9.56	-4.12	-13.00	-27.71

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Operation Band :LTE B17 10M QPSK RB1,0
Fundamental Frequency :711 MHz
Operation Mode :TX CH HIGH
EUT Pol. :H Plan

Test Date :2019-04-02
Temp./Humi. :25/60
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-53.37	-22.87	-30.05	-0.45	-13.00	-40.37
130.88	-54.28	-43.33	-10.01	-0.94	-13.00	-41.28
446.13	-56.89	-53.09	-2.05	-1.75	-13.00	-43.89
499.48	-53.33	-49.5	-1.96	-1.87	-13.00	-40.33
552.83	-56.82	-53.55	-1.31	-1.96	-13.00	-43.82
998.06	-49.87	-45.78	-1.41	-2.68	-13.00	-36.87
1422.00	-60.60	-65.46	8.13	-3.27	-13.00	-47.60
2133.00	-42.61	-48.02	9.53	-4.12	-13.00	-29.61

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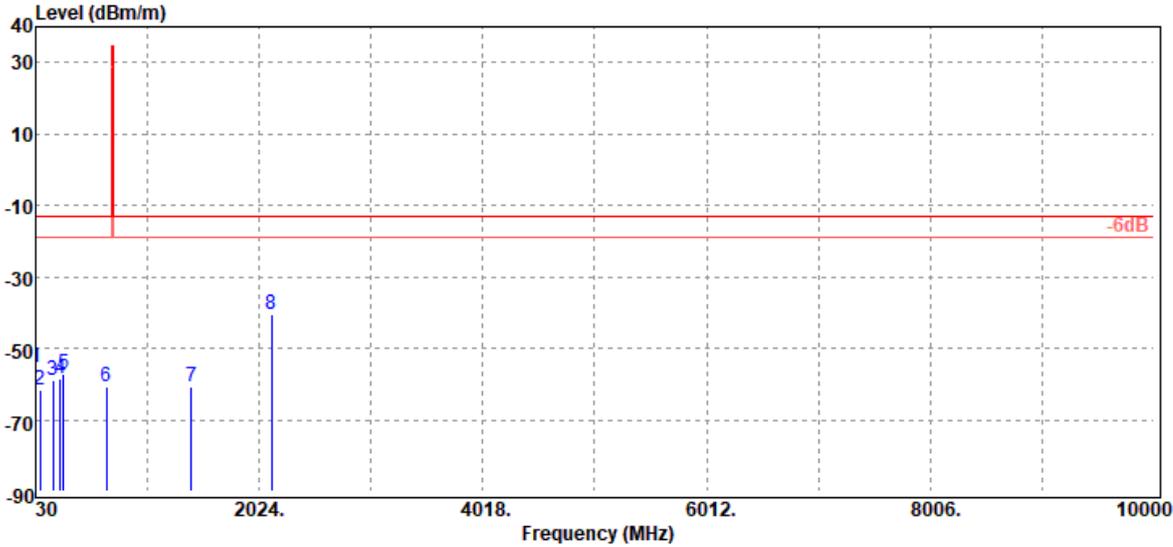
程智科技股份有限公司

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Operation Band :LTE B17 10M QPSK RB1,0
 Fundamental Frequency :711 MHz
 Operation Mode :TX CH HIGH
 EUT Pol. :H Plan

Test Date :2019-04-02
 Temp./Humi. :25/60
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
33.88	-55.55	-28.8	-26.26	-0.49	-13.00	-42.55
67.83	-61.78	-51.24	-9.86	-0.68	-13.00	-48.78
186.17	-59.13	-53.98	-4.03	-1.12	-13.00	-46.13
250.19	-58.39	-55.34	-1.74	-1.31	-13.00	-45.39
282.20	-57.03	-53.13	-2.51	-1.39	-13.00	-44.03
664.38	-60.89	-57.27	-1.45	-2.17	-13.00	-47.89
1422.00	-60.76	-65.62	8.13	-3.27	-13.00	-47.76
2133.00	-40.56	-45.97	9.53	-4.12	-13.00	-27.56

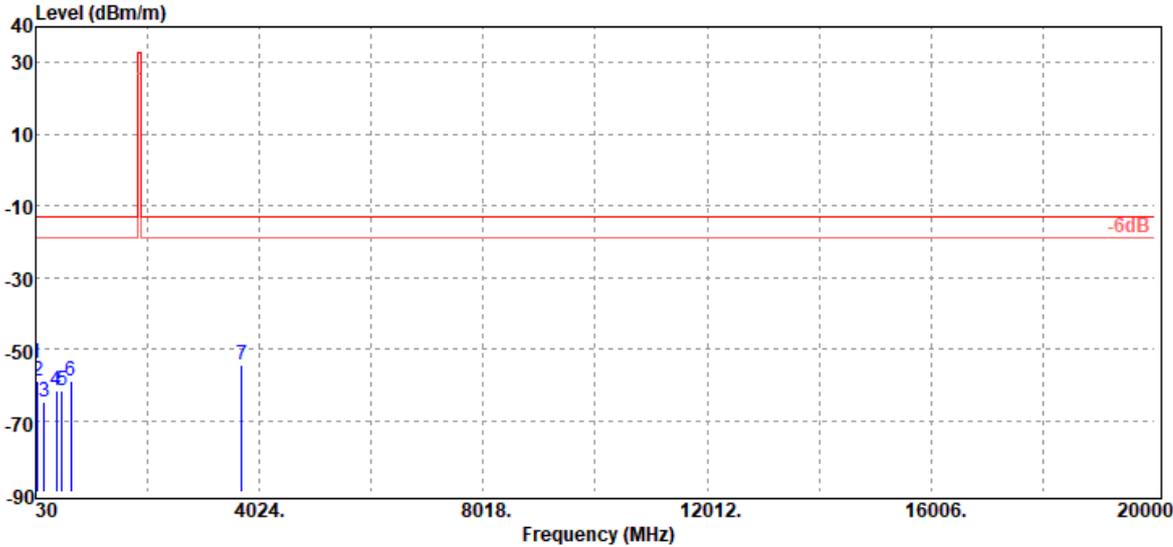
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Radiated Spurious Emission Measurement Result: LTE-Band 25 (The Worst Case)

Operation Band	:LTE B25 10M QPSK RB1,49	Test Date	:2019-04-02
Fundamental Frequency	:1855 MHz	Temp./Humi.	:25/60
Operation Mode	:TX CH LOW	Engineer	:Jerry
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL



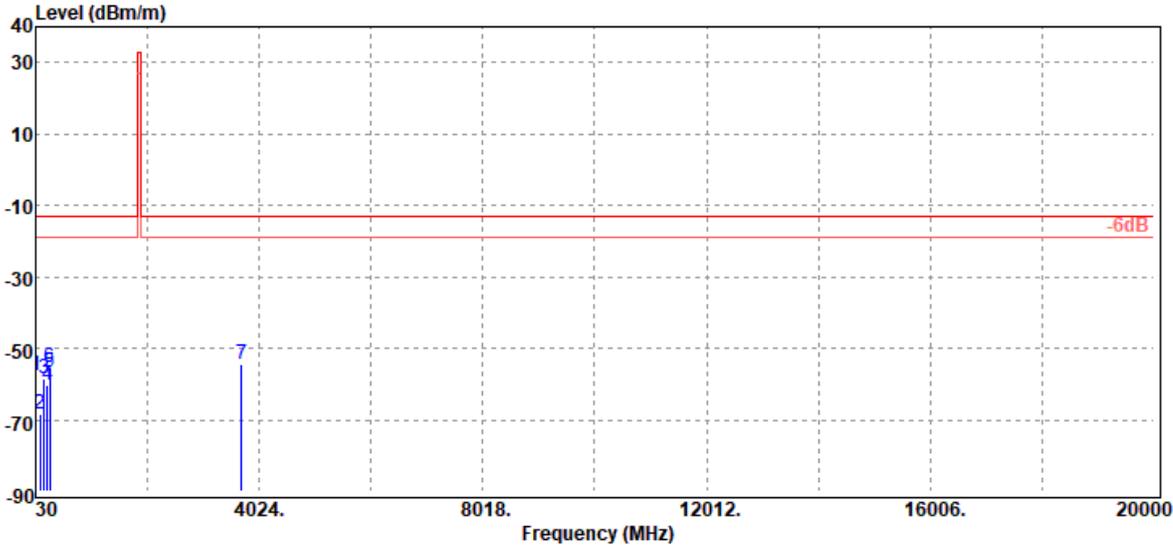
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-53.96	-23.46	-30.05	-0.45	-13.00	-40.96
71.71	-58.75	-48.57	-9.48	-0.70	-13.00	-45.75
184.23	-64.65	-59.42	-4.11	-1.12	-13.00	-51.65
391.81	-61.73	-58.6	-1.49	-1.64	-13.00	-48.73
497.54	-61.65	-57.79	-2.00	-1.86	-13.00	-48.65
665.35	-58.82	-55.2	-1.45	-2.17	-13.00	-45.82
3710.00	-54.35	-61.11	12.48	-5.72	-13.00	-41.35

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Operation Band :LTE B25 10M QPSK RB1,49
Fundamental Frequency :1855 MHz
Operation Mode :TX CH LOW
EUT Pol. :H Plan

Test Date :2019-04-02
Temp./Humi. :25/60
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-57.52	-27.02	-30.05	-0.45	-13.00	-44.52
103.72	-68.45	-58.51	-9.10	-0.84	-13.00	-55.45
181.32	-58.58	-53.13	-4.34	-1.11	-13.00	-45.58
238.55	-60.16	-56.74	-2.15	-1.27	-13.00	-47.16
278.32	-56.87	-52.91	-2.58	-1.38	-13.00	-43.87
289.96	-55.35	-51.79	-2.15	-1.41	-13.00	-42.35
3710.00	-54.67	-61.43	12.48	-5.72	-13.00	-41.67

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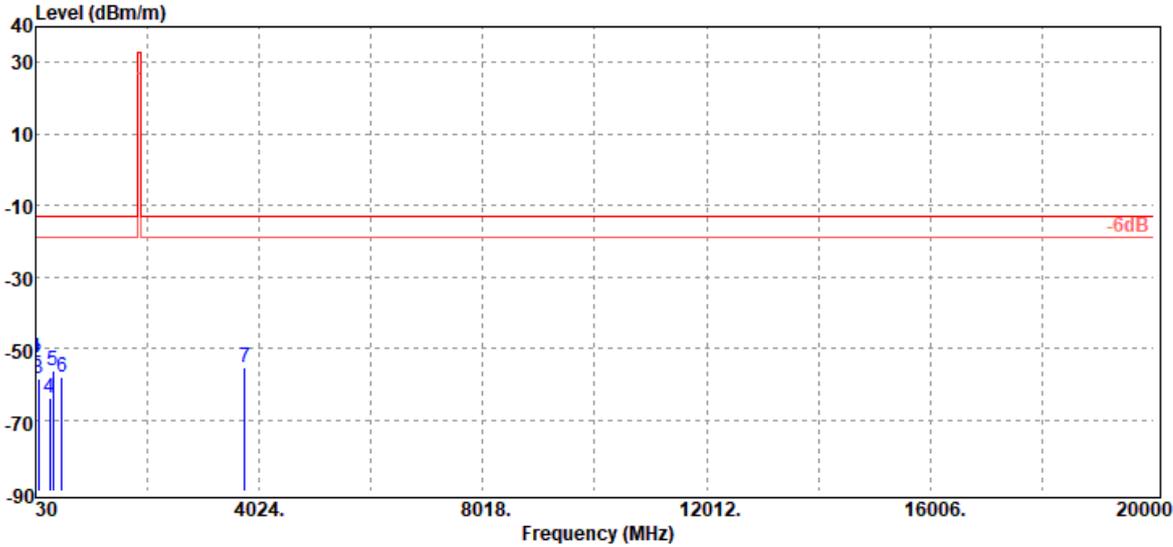
程智科技股份有限公司

t:(886-2) 2299-9720 f:(886-2) 2298-1882 www.sgs.tw www.ccsrf.com

Member of the SGS Group (SGS SA)

Operation Band :LTE B25 10M QPSK RB1,49
Fundamental Frequency :1882.5 MHz
Operation Mode :TX CH MID
EUT Pol. :H Plan

Test Date :2019-04-02
Temp./Humi. :25/60
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
31.94	-52.47	-23.9	-28.10	-0.47	-13.00	-39.47
36.79	-54.18	-30.36	-23.31	-0.51	-13.00	-41.18
74.62	-58.72	-48.82	-9.19	-0.71	-13.00	-45.72
288.02	-63.77	-60.1	-2.27	-1.40	-13.00	-50.77
340.40	-56.29	-53.31	-1.45	-1.53	-13.00	-43.29
502.39	-58.03	-54.25	-1.90	-1.88	-13.00	-45.03
3765.00	-55.38	-62.11	12.43	-5.70	-13.00	-42.38

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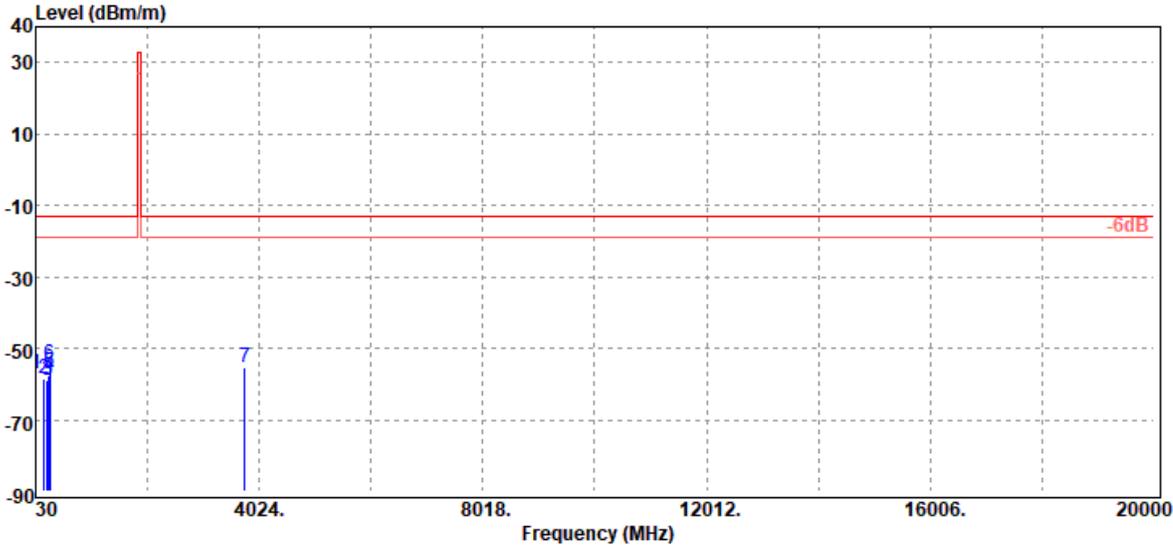
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Member of the SGS Group (SGS SA)

Operation Band :LTE B25 10M QPSK RB1,49
 Fundamental Frequency :1882.5 MHz
 Operation Mode :TX CH MID
 EUT Pol. :H Plan

Test Date :2019-04-02
 Temp./Humi. :25/60
 Engineer :Jerry
 Measurement Antenna Pol. :HORIZONTAL



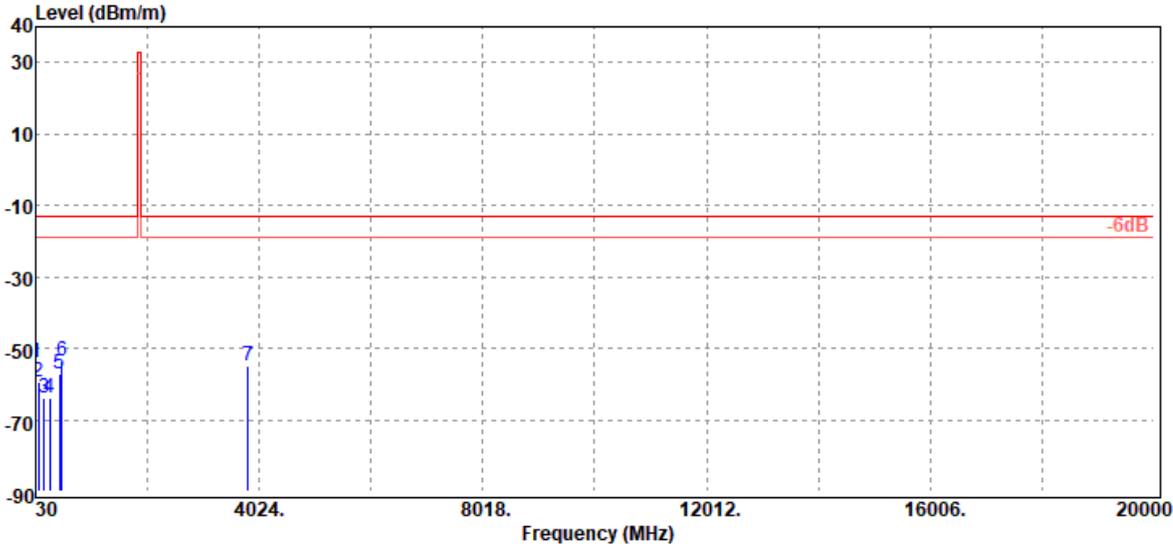
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
31.94	-57.31	-28.74	-28.10	-0.47	-13.00	-44.31
182.29	-58.50	-53.12	-4.27	-1.11	-13.00	-45.50
236.61	-58.95	-55.53	-2.15	-1.27	-13.00	-45.95
269.59	-57.43	-53.54	-2.53	-1.36	-13.00	-44.43
278.32	-56.64	-52.68	-2.58	-1.38	-13.00	-43.64
288.99	-54.48	-50.86	-2.21	-1.41	-13.00	-41.48
3765.00	-55.32	-62.05	12.43	-5.70	-13.00	-42.32

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Operation Band :LTE B25 10M QPSK RB1,49
 Fundamental Frequency :1910 MHz
 Operation Mode :TX CH HIGH
 EUT Pol. :H Plan

Test Date :2019-04-02
 Temp./Humi. :25/60
 Engineer :Jerry
 Measurement Antenna Pol. :VERTICAL



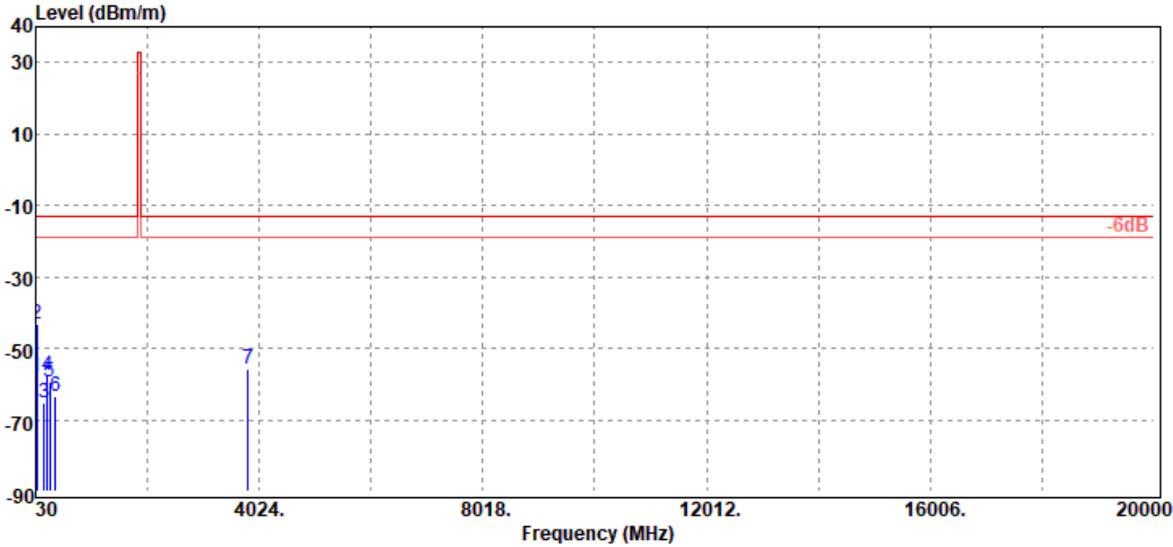
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-53.90	-23.4	-30.05	-0.45	-13.00	-40.90
86.26	-59.47	-50.98	-7.72	-0.77	-13.00	-46.47
183.26	-63.95	-58.64	-4.19	-1.12	-13.00	-50.95
286.08	-64.03	-60.25	-2.38	-1.40	-13.00	-51.03
461.65	-57.29	-53.39	-2.12	-1.78	-13.00	-44.29
497.54	-53.66	-49.8	-2.00	-1.86	-13.00	-40.66
3820.00	-55.00	-61.7	12.46	-5.76	-13.00	-42.00

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Operation Band :LTE B25 10M QPSK RB1,49
Fundamental Frequency :1910 MHz
Operation Mode :TX CH HIGH
EUT Pol. :H Plan

Test Date :2019-04-02
Temp./Humi. :25/60
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-58.08	-27.58	-30.05	-0.45	-13.00	-45.08
55.22	-43.14	-31.98	-10.54	-0.62	-13.00	-30.14
186.17	-65.42	-60.27	-4.03	-1.12	-13.00	-52.42
243.40	-57.66	-54.36	-2.01	-1.29	-13.00	-44.66
287.05	-59.60	-55.87	-2.33	-1.40	-13.00	-46.60
387.93	-63.62	-60.54	-1.45	-1.63	-13.00	-50.62
3820.00	-55.87	-62.57	12.46	-5.76	-13.00	-42.87

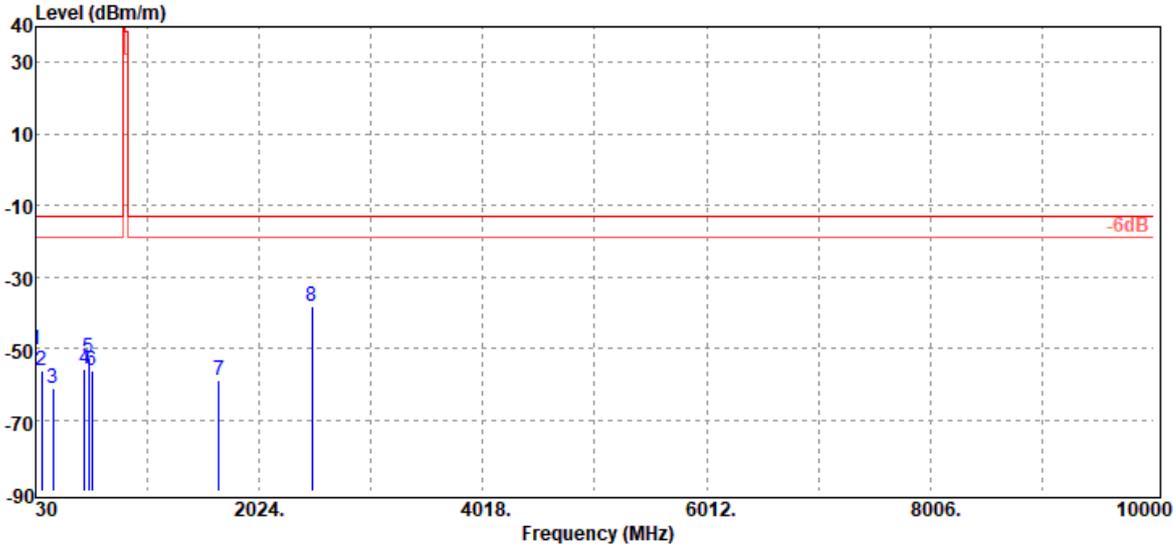
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Radiated Spurious Emission Measurement Result: LTE-Band 26 (The Worst Case)

Operation Band	:LTE B26 15M QPSK RB1,0	Test Date	:2019-04-02
Fundamental Frequency	:831.5 MHz	Temp./Humi.	:25/60
Operation Mode	:TX CH LOW	Engineer	:Kane
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL



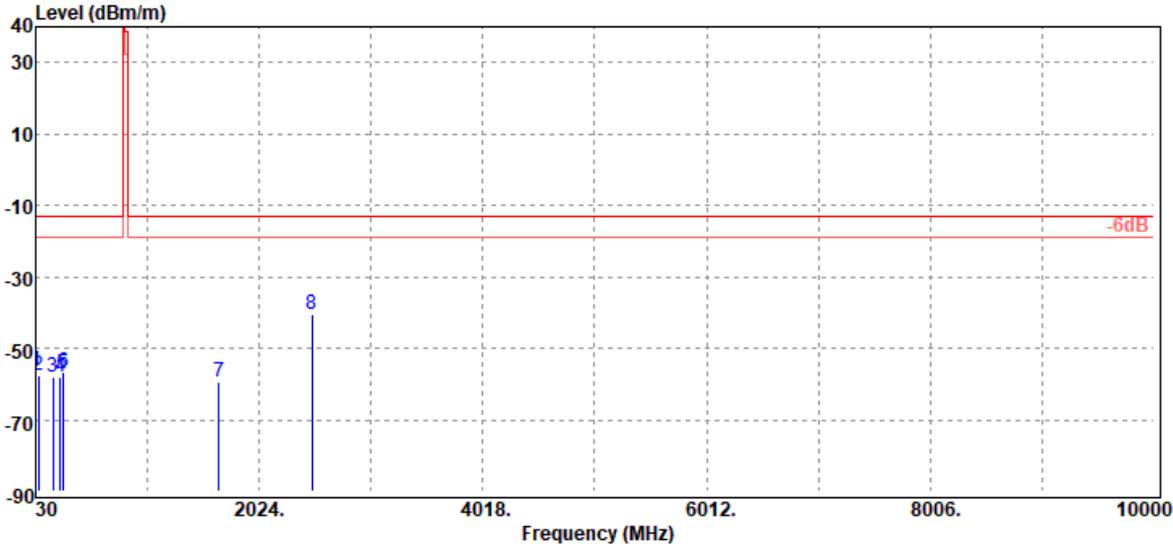
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.97	-50.36	-20.84	-29.06	-0.46	-13.00	-37.36
81.41	-56.26	-47.2	-8.31	-0.75	-13.00	-43.26
182.29	-61.02	-55.64	-4.27	-1.11	-13.00	-48.02
469.41	-55.86	-51.72	-2.34	-1.80	-13.00	-42.86
499.48	-52.50	-48.67	-1.96	-1.87	-13.00	-39.50
530.52	-56.06	-52.8	-1.34	-1.92	-13.00	-43.06
1663.00	-59.09	-65.3	9.78	-3.57	-13.00	-46.09
2494.50	-38.36	-44.6	10.78	-4.54	-13.00	-25.36

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Operation Band :LTE B26 15M QPSK RB1,0
 Fundamental Frequency :831.5 MHz
 Operation Mode :TX CH LOW
 EUT Pol. :H Plan

Test Date :2019-04-02
 Temp./Humi. :25/60
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



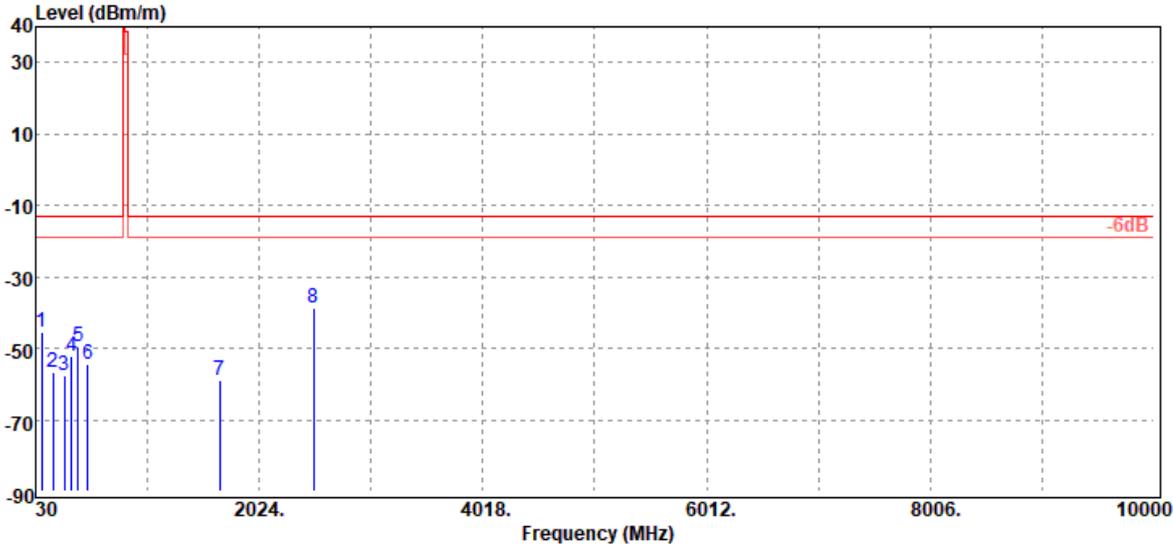
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
35.82	-56.07	-31.22	-24.35	-0.50	-13.00	-43.07
55.22	-57.44	-46.28	-10.54	-0.62	-13.00	-44.44
182.29	-58.27	-52.89	-4.27	-1.11	-13.00	-45.27
247.28	-58.26	-55.1	-1.86	-1.30	-13.00	-45.26
268.62	-57.14	-53.29	-2.50	-1.35	-13.00	-44.14
282.20	-56.62	-52.72	-2.51	-1.39	-13.00	-43.62
1663.00	-59.47	-65.68	9.78	-3.57	-13.00	-46.47
2494.50	-40.43	-46.67	10.78	-4.54	-13.00	-27.43

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Operation Band :LTE B26 15M QPSK RB1,0
Fundamental Frequency :836.5 MHz
Operation Mode :TX CH MID
EUT Pol. :H Plan

Test Date :2019-04-02
Temp./Humi. :25/60
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



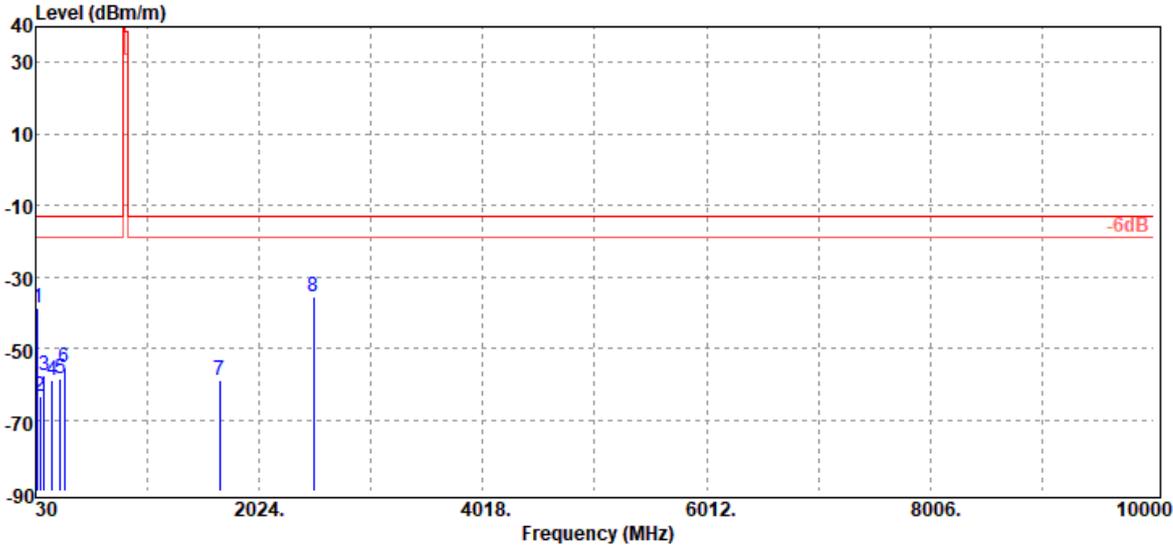
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
82.38	-45.29	-36.33	-8.21	-0.75	-13.00	-32.29
183.26	-56.88	-51.57	-4.19	-1.12	-13.00	-43.88
283.17	-57.47	-53.59	-2.49	-1.39	-13.00	-44.47
353.98	-52.41	-49.14	-1.71	-1.56	-13.00	-39.41
412.18	-49.61	-46.14	-1.79	-1.68	-13.00	-36.61
497.54	-54.31	-50.45	-2.00	-1.86	-13.00	-41.31
1673.00	-59.04	-65.3	9.84	-3.58	-13.00	-46.04
2509.50	-38.64	-44.85	10.80	-4.59	-13.00	-25.64

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Operation Band :LTE B26 15M QPSK RB1,0
Fundamental Frequency :836.5 MHz
Operation Mode :TX CH MID
EUT Pol. :H Plan

Test Date :2019-04-02
Temp./Humi. :25/60
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



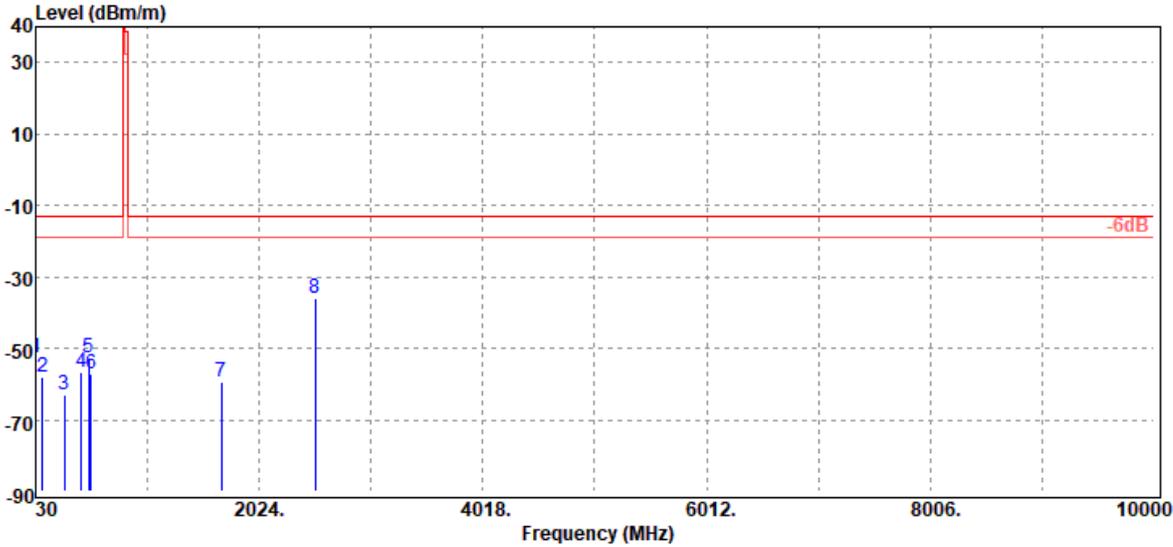
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
51.34	-38.94	-26.78	-11.56	-0.60	-13.00	-25.94
72.68	-63.41	-53.33	-9.38	-0.70	-13.00	-50.41
103.72	-57.63	-47.69	-9.10	-0.84	-13.00	-44.63
181.32	-58.81	-53.36	-4.34	-1.11	-13.00	-45.81
249.22	-58.41	-55.33	-1.78	-1.30	-13.00	-45.41
287.05	-55.47	-51.74	-2.33	-1.40	-13.00	-42.47
1673.00	-58.79	-65.05	9.84	-3.58	-13.00	-45.79
2509.50	-35.73	-41.94	10.80	-4.59	-13.00	-22.73

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Operation Band :LTE B26 15M QPSK RB1,0
Fundamental Frequency :841.5 MHz
Operation Mode :TX CH HIGH
EUT Pol. :H Plan

Test Date :2019-04-02
Temp./Humi. :25/60
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



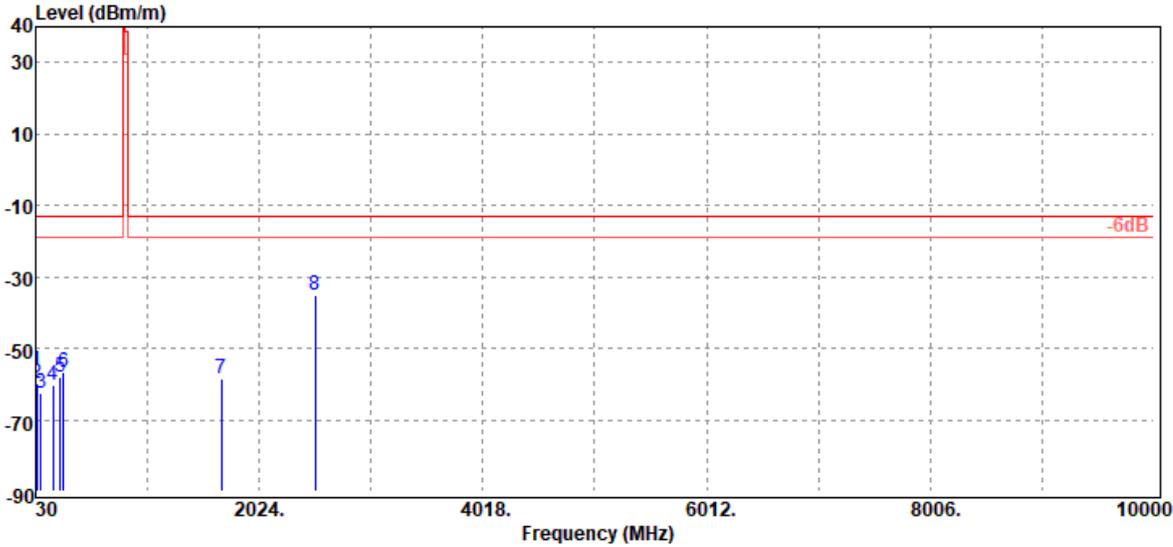
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-52.87	-22.37	-30.05	-0.45	-13.00	-39.87
92.08	-58.15	-50.23	-7.13	-0.79	-13.00	-45.15
288.02	-62.96	-59.29	-2.27	-1.40	-13.00	-49.96
439.34	-56.53	-52.75	-2.04	-1.74	-13.00	-43.53
499.48	-52.82	-48.99	-1.96	-1.87	-13.00	-39.82
520.82	-57.11	-53.77	-1.43	-1.91	-13.00	-44.11
1683.00	-59.42	-65.73	9.90	-3.59	-13.00	-46.42
2524.50	-36.12	-42.33	10.80	-4.59	-13.00	-23.12

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Operation Band :LTE B26 15M QPSK RB1,0
Fundamental Frequency :841.5 MHz
Operation Mode :TX CH HIGH
EUT Pol. :H Plan

Test Date :2019-04-02
Temp./Humi. :25/60
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



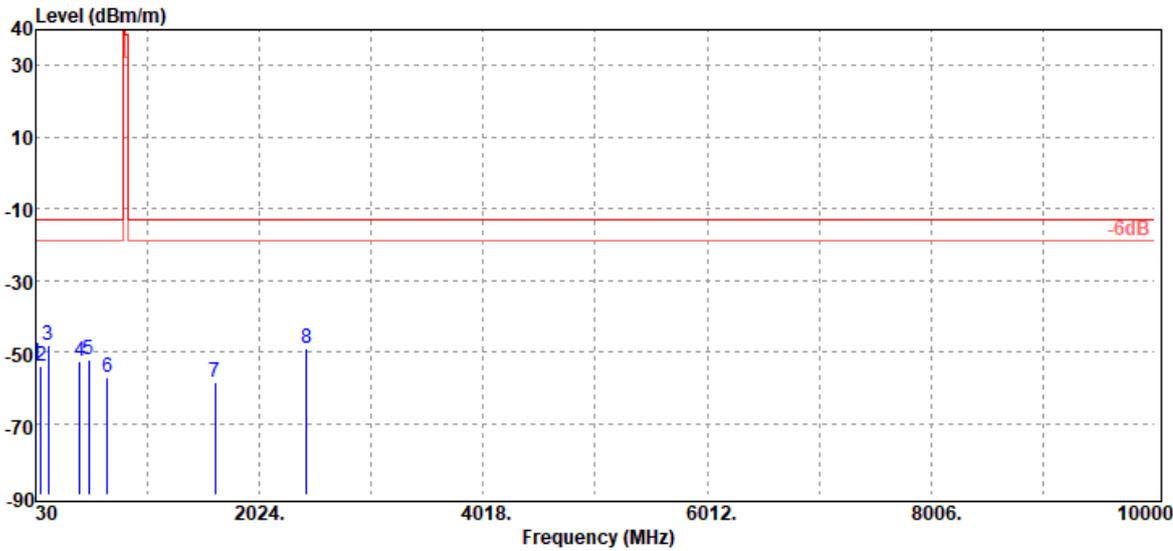
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
31.94	-56.15	-27.58	-28.10	-0.47	-13.00	-43.15
43.58	-59.73	-42.47	-16.70	-0.56	-13.00	-46.73
73.65	-62.59	-52.6	-9.28	-0.71	-13.00	-49.59
183.26	-60.37	-55.06	-4.19	-1.12	-13.00	-47.37
247.28	-57.95	-54.79	-1.86	-1.30	-13.00	-44.95
278.32	-56.75	-52.79	-2.58	-1.38	-13.00	-43.75
1683.00	-58.74	-65.05	9.90	-3.59	-13.00	-45.74
2524.50	-35.17	-41.38	10.80	-4.59	-13.00	-22.17

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Radiated Spurious Emission Measurement Result: LTE-Band 26 for Part 90S (The Worst Case)

Operation Band	:LTE Part90 1.4M QPSK RB1,5	Test Date	:2019-04-02
Fundamental Frequency	:814.7 MHz	Temp./Humi.	:25/60
Operation Mode	:TX CH LOW	Engineer	:Kane
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL



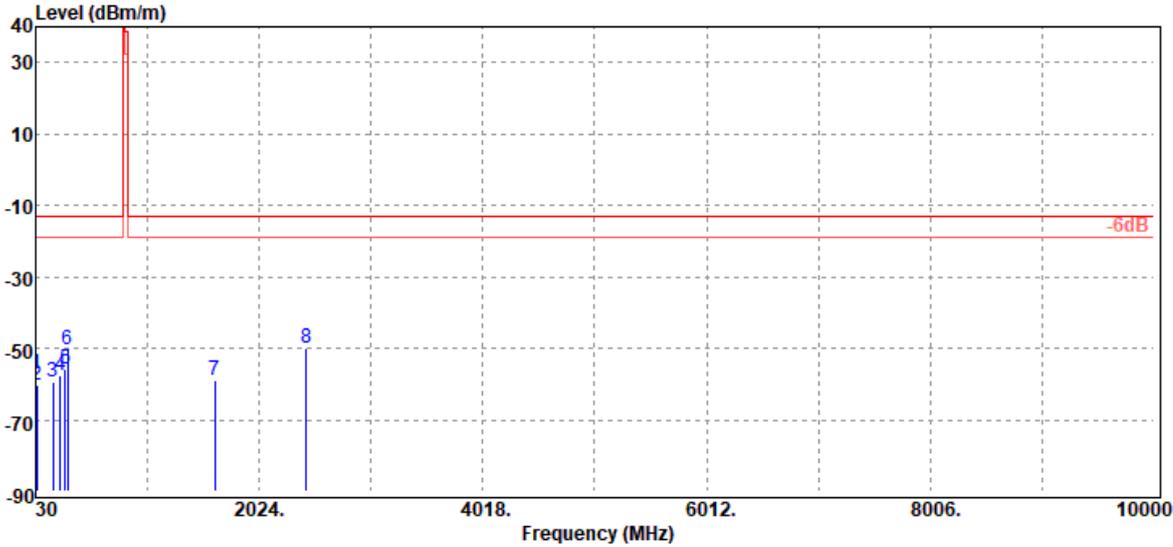
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-53.07	-22.57	-30.05	-0.45	-13.00	-40.07
77.53	-54.06	-44.54	-8.79	-0.73	-13.00	-41.06
144.46	-48.08	-39.34	-7.75	-0.99	-13.00	-35.08
419.94	-52.80	-49.25	-1.85	-1.70	-13.00	-39.80
499.48	-52.08	-48.25	-1.96	-1.87	-13.00	-39.08
665.35	-57.05	-53.43	-1.45	-2.17	-13.00	-44.05
1629.40	-58.61	-64.75	9.66	-3.52	-13.00	-45.61
2444.10	-49.08	-55.18	10.56	-4.46	-13.00	-36.08

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Operation Band :LTE Part90 1.4M QPSK RB1,5
 Fundamental Frequency :814.7 MHz
 Operation Mode :TX CH LOW
 EUT Pol. :H Plan

Test Date :2019-04-02
 Temp./Humi. :25/60
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



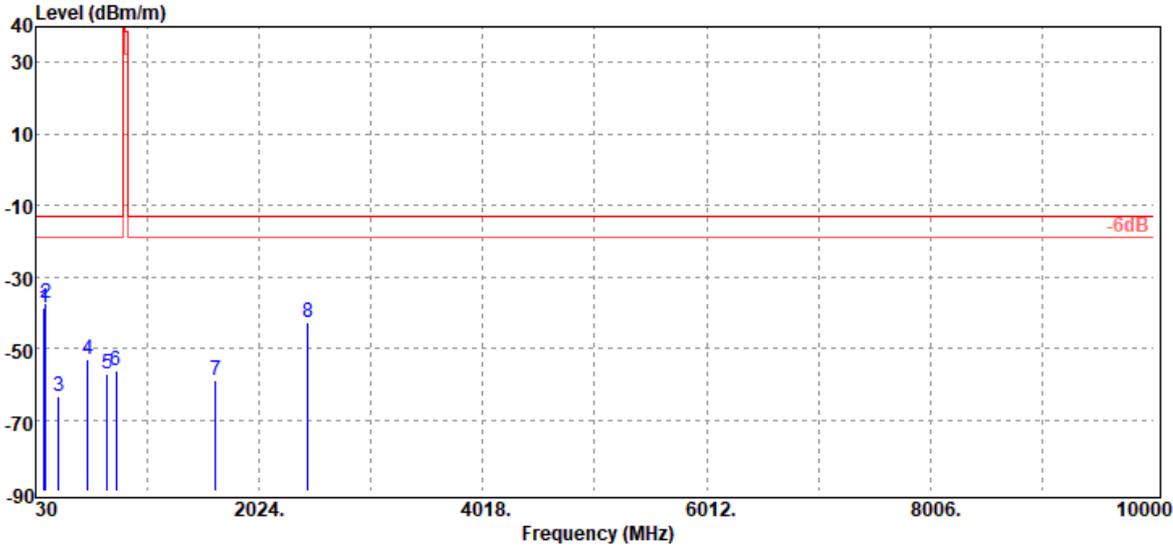
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-57.21	-26.71	-30.05	-0.45	-13.00	-44.21
42.61	-60.46	-42.33	-17.58	-0.55	-13.00	-47.46
182.29	-59.31	-53.93	-4.27	-1.11	-13.00	-46.31
247.28	-57.68	-54.52	-1.86	-1.30	-13.00	-44.68
289.96	-55.78	-52.22	-2.15	-1.41	-13.00	-42.78
315.18	-50.37	-46.95	-1.95	-1.47	-13.00	-37.37
1629.40	-58.81	-64.95	9.66	-3.52	-13.00	-45.81
2444.10	-49.79	-55.89	10.56	-4.46	-13.00	-36.79

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Operation Band :LTE Part90 1.4M QPSK RB1,5
 Fundamental Frequency :819 MHz
 Operation Mode :TX CH MID
 EUT Pol. :H Plan

Test Date :2019-04-02
 Temp./Humi. :25/60
 Engineer :Kane
 Measurement Antenna Pol. :VERTICAL



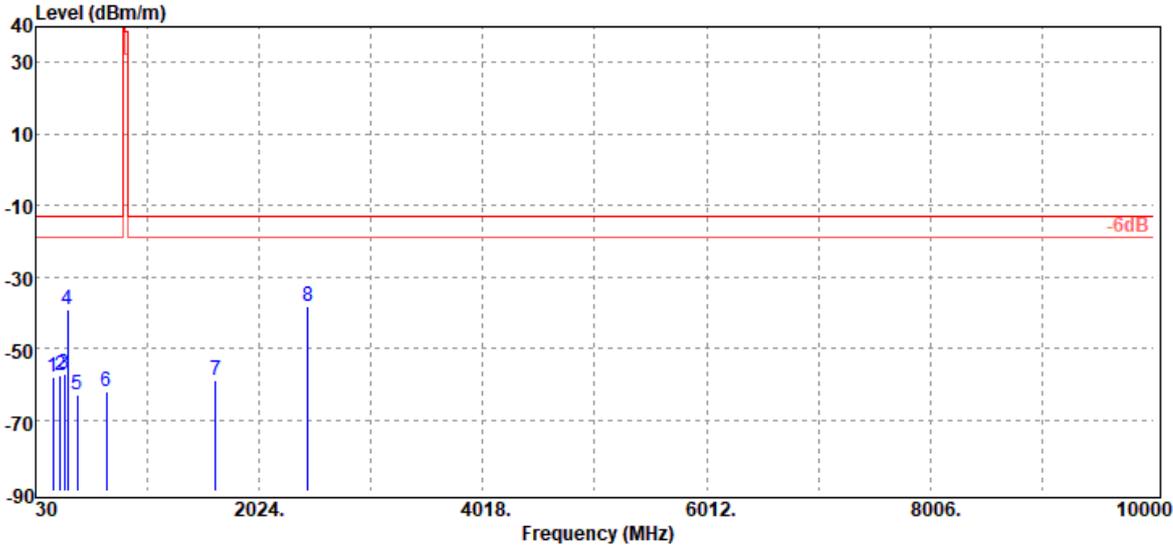
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
106.63	-38.54	-28.17	-9.52	-0.85	-13.00	-25.54
122.15	-37.15	-25.68	-10.56	-0.91	-13.00	-24.15
238.55	-63.54	-60.12	-2.15	-1.27	-13.00	-50.54
497.54	-53.27	-49.41	-2.00	-1.86	-13.00	-40.27
665.35	-57.19	-53.57	-1.45	-2.17	-13.00	-44.19
745.86	-56.08	-52.41	-1.37	-2.30	-13.00	-43.08
1638.00	-58.81	-64.96	9.68	-3.53	-13.00	-45.81
2457.00	-42.74	-48.91	10.63	-4.46	-13.00	-29.74

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Operation Band :LTE Part90 1.4M QPSK RB1,5
 Fundamental Frequency :819 MHz
 Operation Mode :TX CH MID
 EUT Pol. :H Plan

Test Date :2019-04-02
 Temp./Humi. :25/60
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



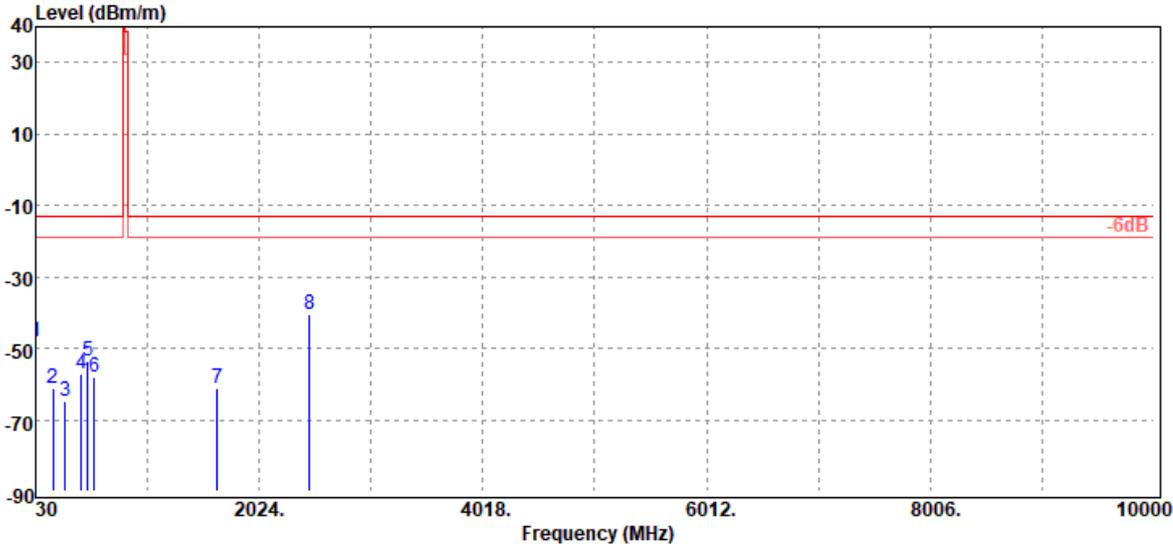
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
184.23	-58.09	-52.86	-4.11	-1.12	-13.00	-45.09
250.19	-57.59	-54.54	-1.74	-1.31	-13.00	-44.59
288.02	-57.08	-53.41	-2.27	-1.40	-13.00	-44.08
312.27	-39.03	-35.62	-1.95	-1.46	-13.00	-26.03
401.51	-62.91	-59.57	-1.68	-1.66	-13.00	-49.91
664.38	-62.23	-58.61	-1.45	-2.17	-13.00	-49.23
1638.00	-59.03	-65.18	9.68	-3.53	-13.00	-46.03
2457.00	-38.09	-44.26	10.63	-4.46	-13.00	-25.09

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Operation Band :LTE Part90 1.4M QPSK RB1,5
 Fundamental Frequency :823.3 MHz
 Operation Mode :TX CH HIGH
 EUT Pol. :H Plan

Test Date :2019-04-02
 Temp./Humi. :25/60
 Engineer :Kane
 Measurement Antenna Pol. :VERTICAL



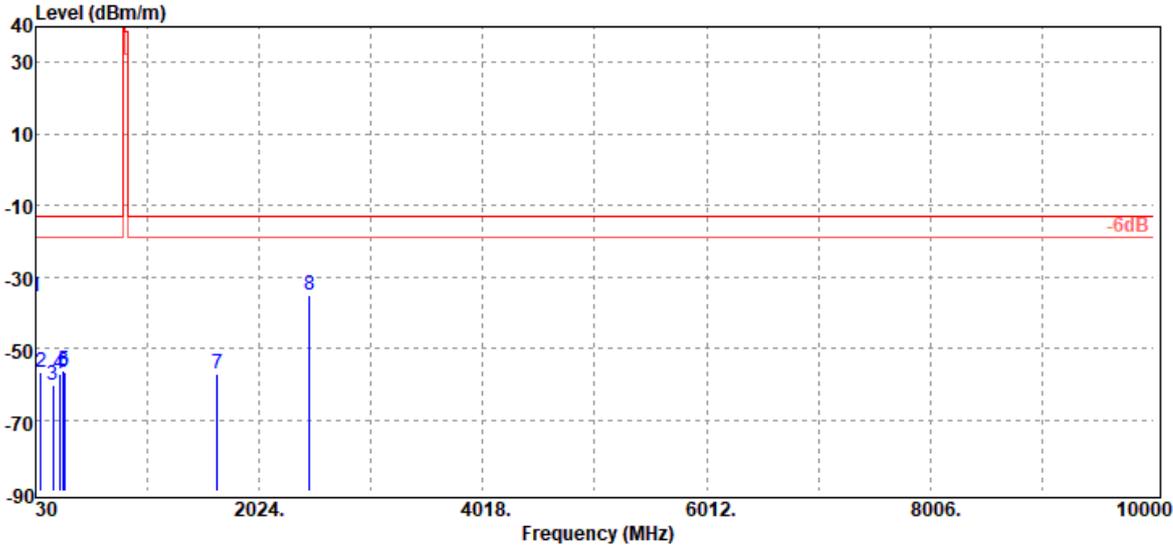
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
31.94	-48.18	-19.61	-28.10	-0.47	-13.00	-35.18
183.26	-61.11	-55.8	-4.19	-1.12	-13.00	-48.11
289.96	-64.77	-61.21	-2.15	-1.41	-13.00	-51.77
437.40	-57.16	-53.43	-2.00	-1.73	-13.00	-44.16
498.51	-53.59	-49.74	-1.98	-1.87	-13.00	-40.59
552.83	-58.00	-54.73	-1.31	-1.96	-13.00	-45.00
1646.60	-61.15	-67.3	9.69	-3.54	-13.00	-48.15
2469.90	-40.46	-46.69	10.68	-4.45	-13.00	-27.46

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Operation Band :LTE Part90 1.4M QPSK RB1,5
 Fundamental Frequency :823.3 MHz
 Operation Mode :TX CH HIGH
 EUT Pol. :H Plan

Test Date :2019-04-02
 Temp./Humi. :25/60
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



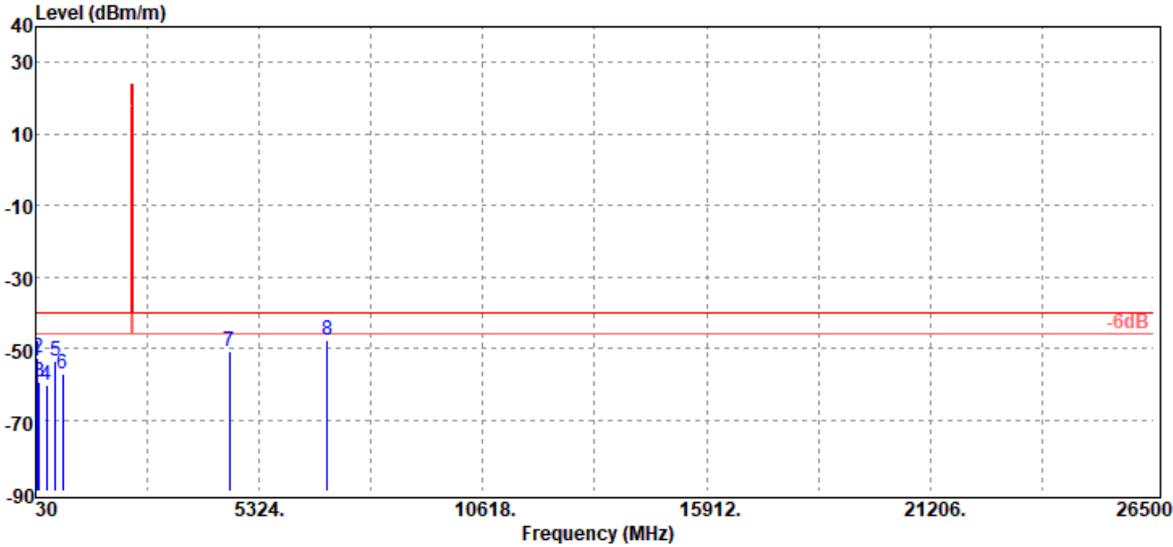
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
35.82	-35.77	-10.92	-24.35	-0.50	-13.00	-22.77
80.44	-56.84	-47.7	-8.40	-0.74	-13.00	-43.84
183.26	-60.12	-54.81	-4.19	-1.12	-13.00	-47.12
242.43	-57.06	-53.73	-2.05	-1.28	-13.00	-44.06
280.26	-56.47	-52.55	-2.54	-1.38	-13.00	-43.47
288.02	-56.88	-53.21	-2.27	-1.40	-13.00	-43.88
1646.60	-57.31	-63.46	9.69	-3.54	-13.00	-44.31
2469.90	-35.32	-41.55	10.68	-4.45	-13.00	-22.32

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Radiated Spurious Emission Measurement Result: LTE-Band 30 (The Worst Case)

Operation Band	:LTE B30 10M QPSK RB1,0	Test Date	:2019-04-02
Fundamental Frequency	:2310 MHz	Temp./Humi.	:25/60
Operation Mode	:TX CH MID	Engineer	:Jerry
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL



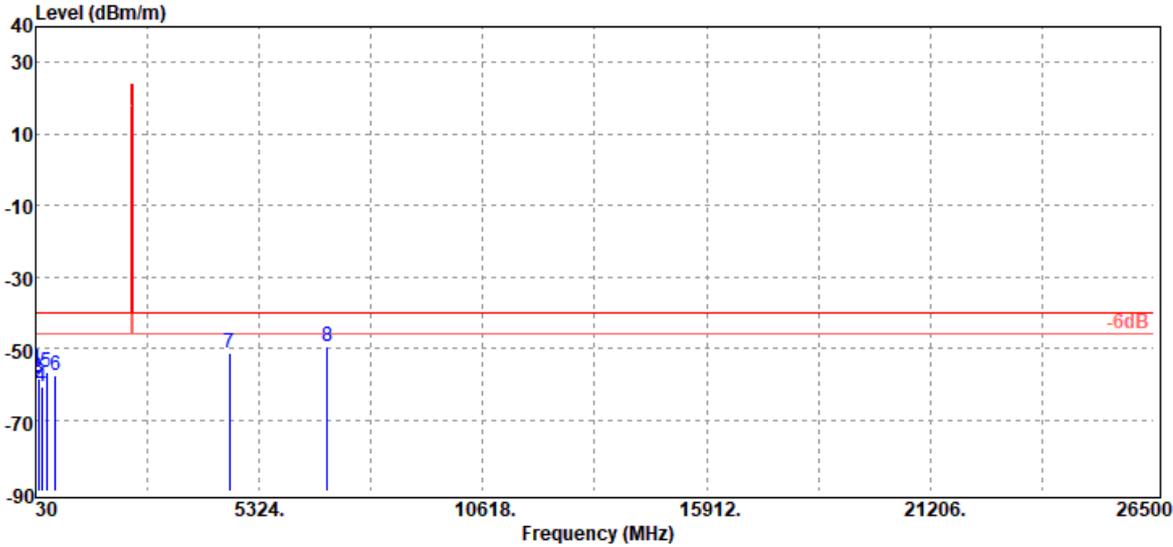
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
34.85	-53.44	-27.56	-25.38	-0.50	-40.00	-13.44
71.71	-52.86	-42.68	-9.48	-0.70	-40.00	-12.86
112.45	-59.53	-48.51	-10.15	-0.87	-40.00	-19.53
289.96	-60.16	-56.6	-2.15	-1.41	-40.00	-20.16
497.54	-53.66	-49.8	-2.00	-1.86	-40.00	-13.66
664.38	-57.06	-53.44	-1.45	-2.17	-40.00	-17.06
4620.00	-50.87	-57.21	12.72	-6.38	-40.00	-10.87
6930.00	-47.77	-51.29	11.34	-7.82	-40.00	-7.77

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Operation Band :LTE B30 10M QPSK RB1,0
Fundamental Frequency :2310 MHz
Operation Mode :TX CH MID
EUT Pol. :H Plan

Test Date :2019-04-02
Temp./Humi. :25/60
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



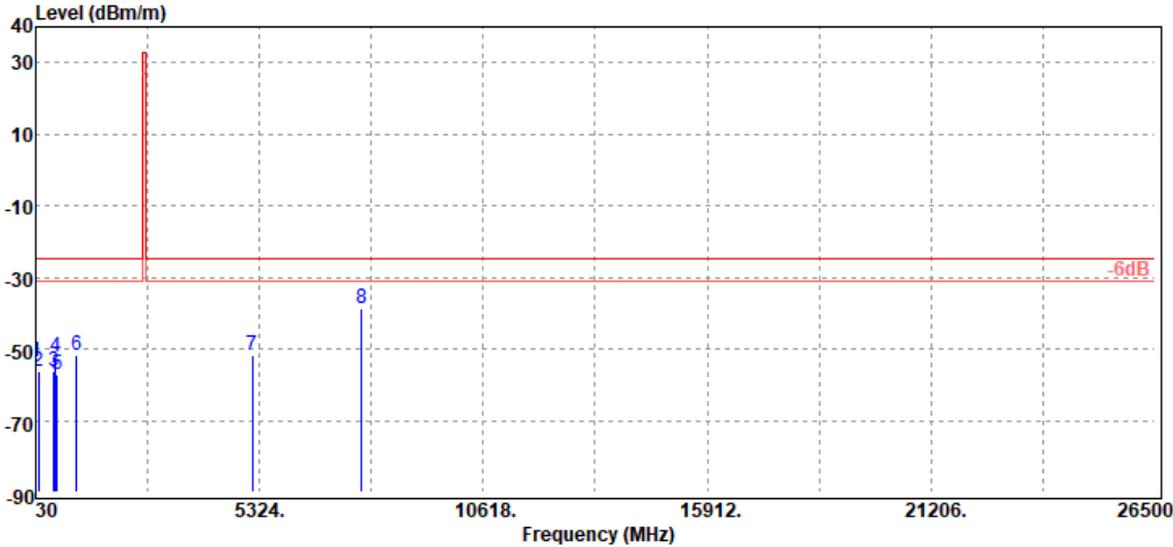
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-55.75	-25.25	-30.05	-0.45	-40.00	-15.75
43.58	-58.13	-40.87	-16.70	-0.56	-40.00	-18.13
104.69	-58.56	-48.43	-9.29	-0.84	-40.00	-18.56
182.29	-60.73	-55.35	-4.27	-1.11	-40.00	-20.73
281.23	-56.92	-53	-2.53	-1.39	-40.00	-16.92
499.48	-57.70	-53.87	-1.96	-1.87	-40.00	-17.70
4620.00	-51.32	-57.66	12.72	-6.38	-40.00	-11.32
6930.00	-49.62	-53.14	11.34	-7.82	-40.00	-9.62

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Radiated Spurious Emission Measurement Result: LTE-Band 38 (The Worst Case)

Operation Band	:LTE B38 20M QPSK RB1,99	Test Date	:2019-04-02
Fundamental Frequency	:2580 MHz	Temp./Humi.	:25/60
Operation Mode	:TX CH LOW	Engineer	:Jerry
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL



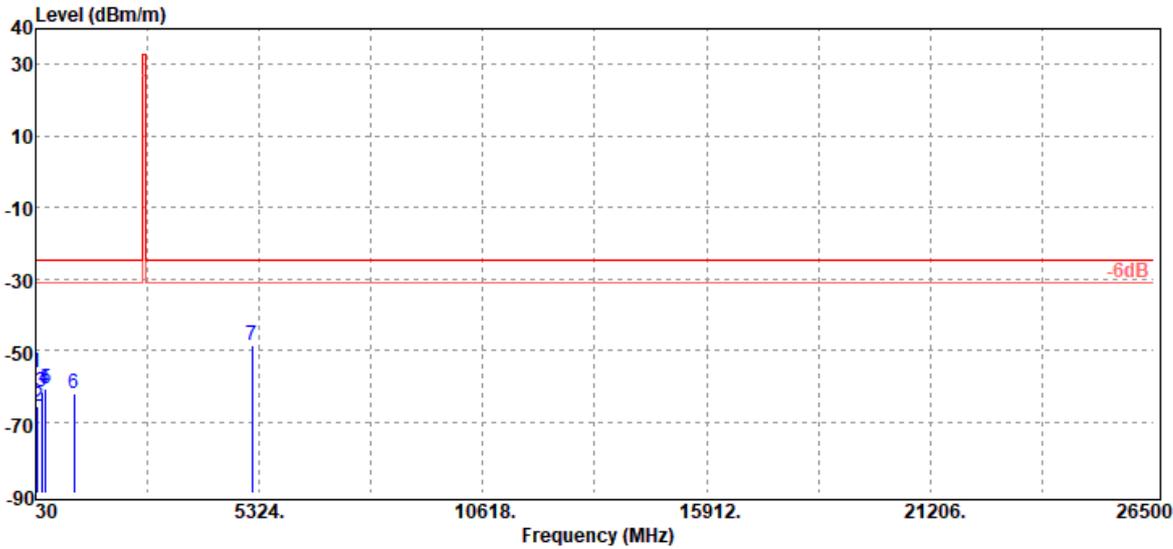
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-53.77	-23.27	-30.05	-0.45	-25.00	-28.77
90.14	-56.18	-48.34	-7.06	-0.78	-25.00	-31.18
458.74	-56.36	-52.53	-2.05	-1.78	-25.00	-31.36
497.54	-52.09	-48.23	-2.00	-1.86	-25.00	-27.09
532.46	-57.31	-54.09	-1.30	-1.92	-25.00	-32.31
997.09	-51.65	-47.58	-1.39	-2.68	-25.00	-26.65
5160.00	-51.91	-57.93	12.76	-6.74	-25.00	-26.91
7740.00	-38.86	-41.78	11.20	-8.28	-25.00	-13.86

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Operation Band :LTE B38 20M QPSK RB1,99
Fundamental Frequency :2580 MHz
Operation Mode :TX CH LOW
EUT Pol. :H Plan

Test Date :2019-04-02
Temp./Humi. :25/60
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.97	-56.42	-26.9	-29.06	-0.46	-25.00	-31.42
83.35	-65.67	-56.8	-8.11	-0.76	-25.00	-40.67
182.29	-61.69	-56.31	-4.27	-1.11	-25.00	-36.69
254.07	-60.75	-57.84	-1.59	-1.32	-25.00	-35.75
278.32	-60.84	-56.88	-2.58	-1.38	-25.00	-35.84
937.92	-61.93	-58.04	-1.29	-2.60	-25.00	-36.93
5160.00	-48.64	-54.66	12.76	-6.74	-25.00	-23.64

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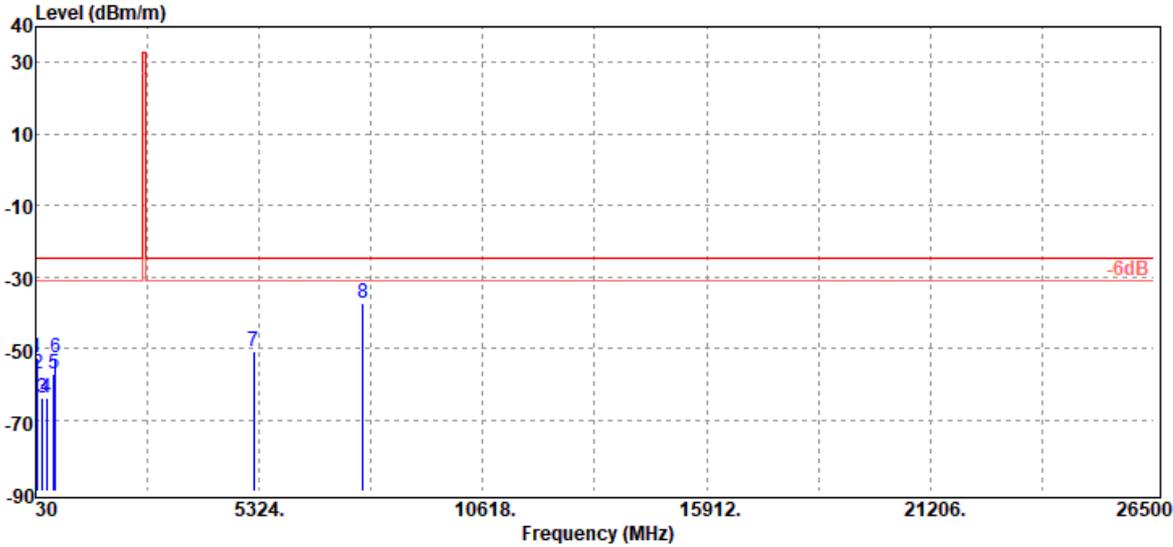
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Member of the SGS Group (SGS SA)

Operation Band :LTE B38 20M QPSK RB1,99
Fundamental Frequency :2595 MHz
Operation Mode :TX CH MID
EUT Pol. :H Plan

Test Date :2019-04-02
Temp./Humi. :25/60
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
54.25	-52.80	-41.43	-10.75	-0.62	-25.00	-27.80
70.74	-57.37	-47.11	-9.57	-0.69	-25.00	-32.37
185.20	-64.05	-58.88	-4.05	-1.12	-25.00	-39.05
289.96	-63.91	-60.35	-2.15	-1.41	-25.00	-38.91
459.71	-57.29	-53.46	-2.05	-1.78	-25.00	-32.29
498.51	-52.52	-48.67	-1.98	-1.87	-25.00	-27.52
5190.00	-50.90	-57.18	12.94	-6.66	-25.00	-25.90
7785.00	-37.16	-39.93	11.13	-8.36	-25.00	-12.16

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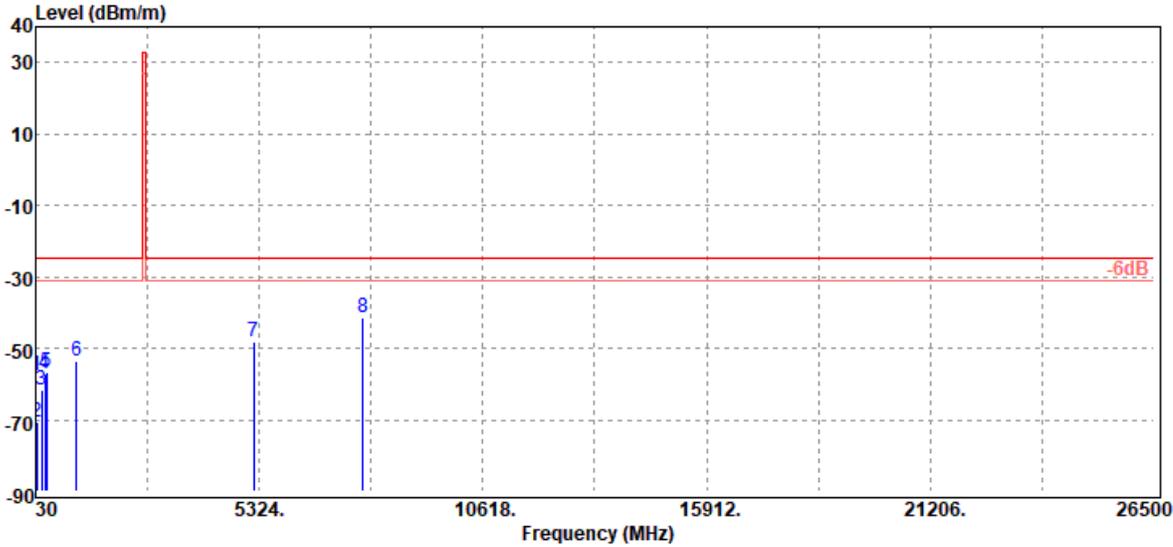
程智科技股份有限公司

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Member of the SGS Group (SGS SA)

Operation Band :LTE B38 20M QPSK RB1,99
Fundamental Frequency :2595 MHz
Operation Mode :TX CH MID
EUT Pol. :H Plan

Test Date :2019-04-02
Temp./Humi. :25/60
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



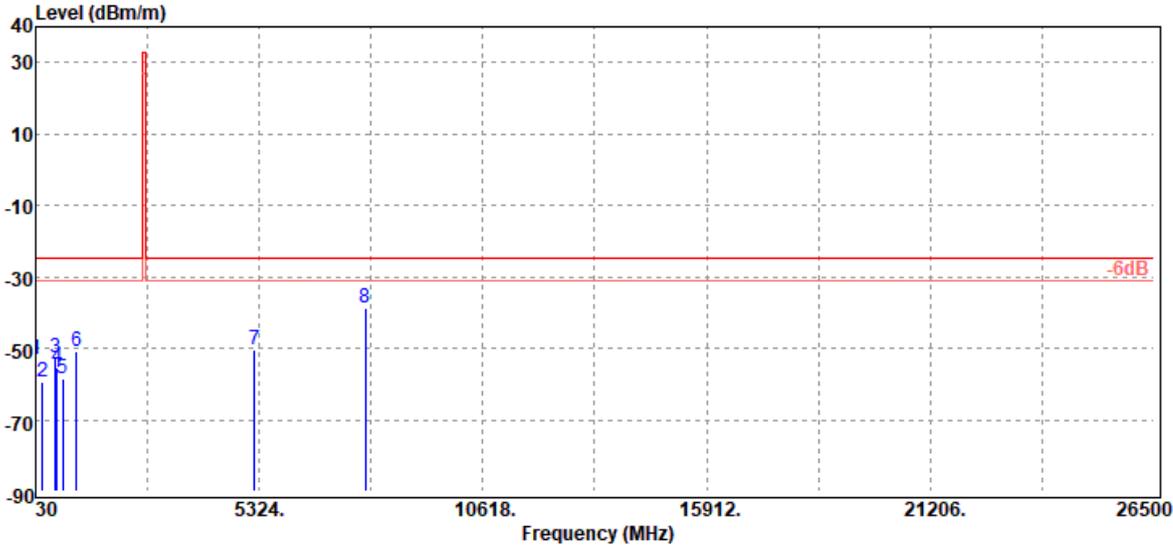
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.97	-57.39	-27.87	-29.06	-0.46	-25.00	-32.39
67.83	-70.58	-60.04	-9.86	-0.68	-25.00	-45.58
181.32	-61.83	-56.38	-4.34	-1.11	-25.00	-36.83
248.25	-57.27	-54.15	-1.82	-1.30	-25.00	-32.27
281.23	-56.84	-52.92	-2.53	-1.39	-25.00	-31.84
998.06	-53.70	-49.61	-1.41	-2.68	-25.00	-28.70
5190.00	-48.33	-54.61	12.94	-6.66	-25.00	-23.33
7785.00	-41.49	-44.26	11.13	-8.36	-25.00	-16.49

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Operation Band :LTE B38 20M QPSK RB1,99
Fundamental Frequency :2610 MHz
Operation Mode :TX CH HIGH
EUT Pol. :H Plan

Test Date :2019-04-02
Temp./Humi. :25/60
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



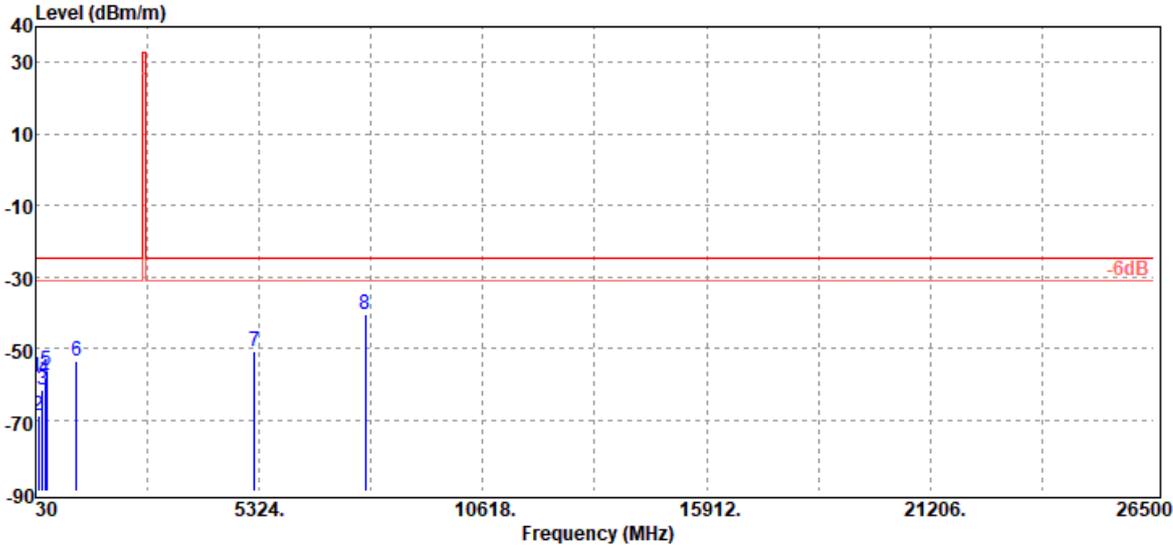
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-53.17	-22.67	-30.05	-0.45	-25.00	-28.17
183.26	-59.20	-53.89	-4.19	-1.12	-25.00	-34.20
498.51	-52.73	-48.88	-1.98	-1.87	-25.00	-27.73
538.28	-55.14	-51.96	-1.25	-1.93	-25.00	-30.14
664.38	-58.31	-54.69	-1.45	-2.17	-25.00	-33.31
999.03	-50.91	-46.8	-1.43	-2.68	-25.00	-25.91
5220.00	-50.37	-56.69	13.08	-6.76	-25.00	-25.37
7830.00	-38.57	-41.33	11.10	-8.34	-25.00	-13.57

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Operation Band :LTE B38 20M QPSK RB1,99
Fundamental Frequency :2610 MHz
Operation Mode :TX CH HIGH
EUT Pol. :H Plan

Test Date :2019-04-02
Temp./Humi. :25/60
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



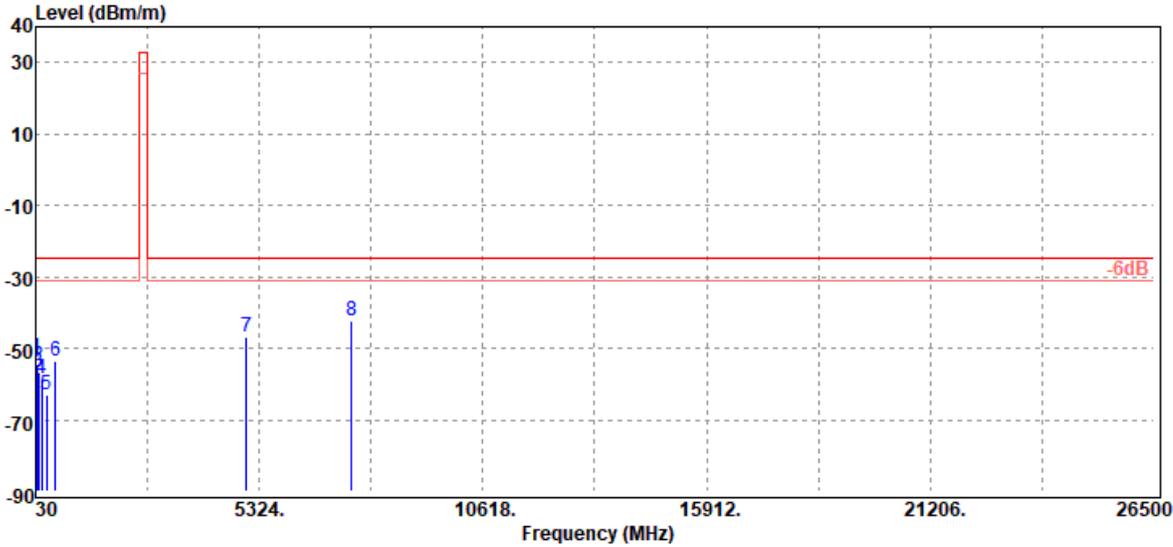
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-57.93	-27.43	-30.05	-0.45	-25.00	-32.93
105.66	-68.81	-58.55	-9.42	-0.84	-25.00	-43.81
185.20	-61.58	-56.41	-4.05	-1.12	-25.00	-36.58
246.31	-58.53	-55.34	-1.90	-1.29	-25.00	-33.53
279.29	-56.15	-52.21	-2.56	-1.38	-25.00	-31.15
1000.00	-53.49	-49.36	-1.45	-2.68	-25.00	-28.49
5220.00	-50.87	-57.19	13.08	-6.76	-25.00	-25.87
7830.00	-40.52	-43.28	11.10	-8.34	-25.00	-15.52

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Radiated Spurious Emission Measurement Result: LTE-Band 41 (The Worst Case)

Operation Band	:LTE B41 20M QPSK RB1,0	Test Date	:2019-04-02
Fundamental Frequency	:2506 MHz	Temp./Humi.	:25/60
Operation Mode	:TX CH LOW	Engineer	:Jerry
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL



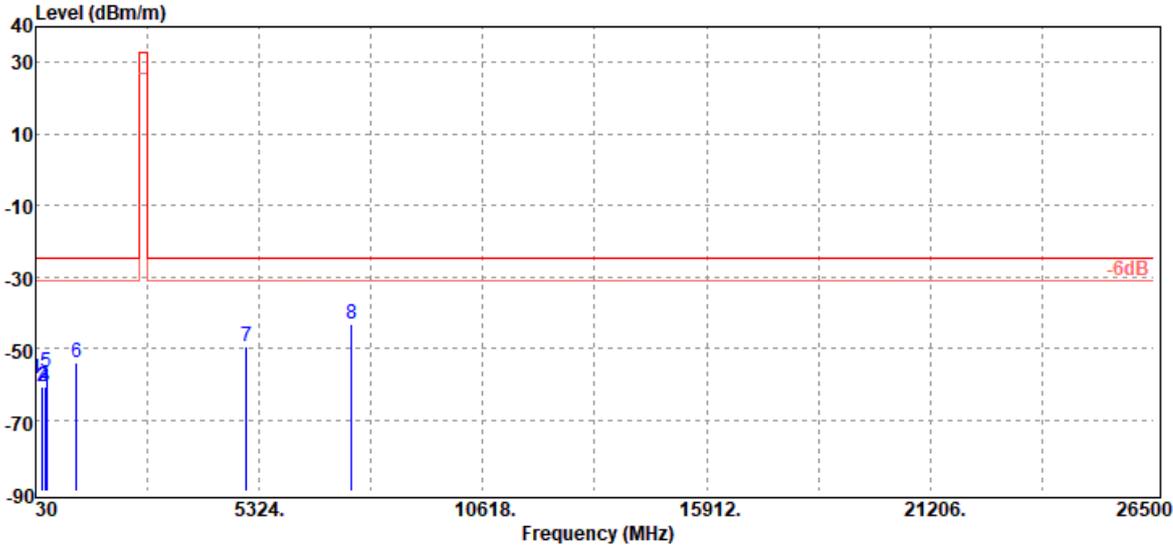
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-52.79	-22.29	-30.05	-0.45	-25.00	-27.79
69.77	-54.94	-44.58	-9.67	-0.69	-25.00	-29.94
94.99	-56.83	-48.78	-7.25	-0.80	-25.00	-31.83
182.29	-58.67	-53.29	-4.27	-1.11	-25.00	-33.67
291.90	-63.04	-59.48	-2.15	-1.41	-25.00	-38.04
499.48	-53.61	-49.78	-1.96	-1.87	-25.00	-28.61
5012.00	-46.79	-52.63	12.48	-6.64	-25.00	-21.79
7518.00	-42.17	-44.9	10.84	-8.11	-25.00	-17.17

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Operation Band :LTE B41 20M QPSK RB1,0
 Fundamental Frequency :2506 MHz
 Operation Mode :TX CH LOW
 EUT Pol. :H Plan

Test Date :2019-04-02
 Temp./Humi. :25/60
 Engineer :Jerry
 Measurement Antenna Pol. :HORIZONTAL



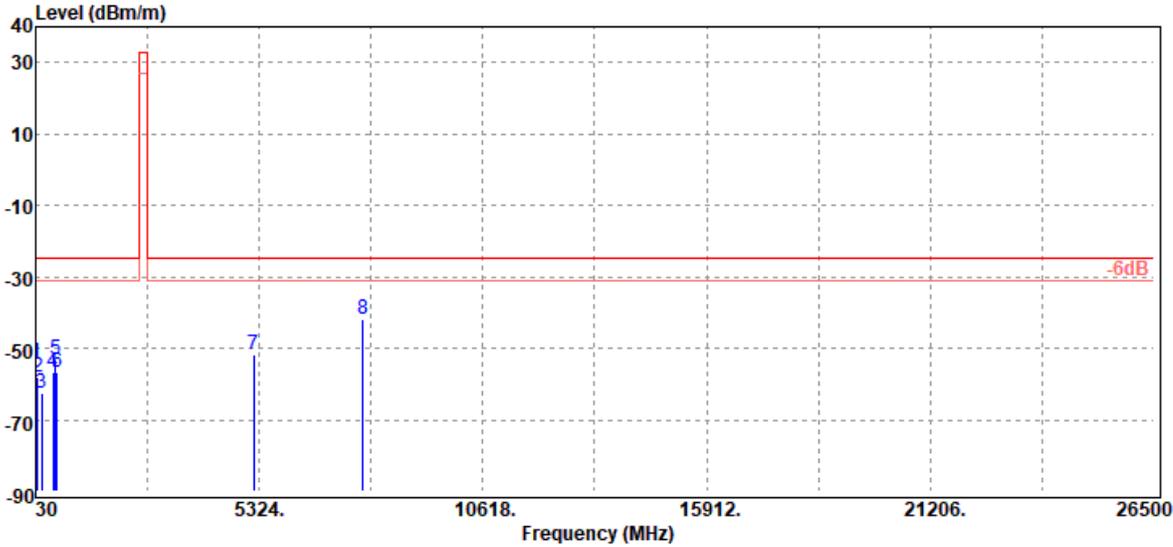
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-58.35	-27.85	-30.05	-0.45	-25.00	-33.35
185.20	-60.97	-55.8	-4.05	-1.12	-25.00	-35.97
246.31	-60.92	-57.73	-1.90	-1.29	-25.00	-35.92
254.07	-60.74	-57.83	-1.59	-1.32	-25.00	-35.74
286.08	-56.82	-53.04	-2.38	-1.40	-25.00	-31.82
997.09	-53.80	-49.73	-1.39	-2.68	-25.00	-28.80
5012.00	-49.53	-55.37	12.48	-6.64	-25.00	-24.53
7518.00	-43.05	-45.78	10.84	-8.11	-25.00	-18.05

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Operation Band :LTE B41 20M QPSK RB1,0
 Fundamental Frequency :2593 MHz
 Operation Mode :TX CH MID
 EUT Pol. :H Plan

Test Date :2019-04-02
 Temp./Humi. :25/60
 Engineer :Jerry
 Measurement Antenna Pol. :VERTICAL



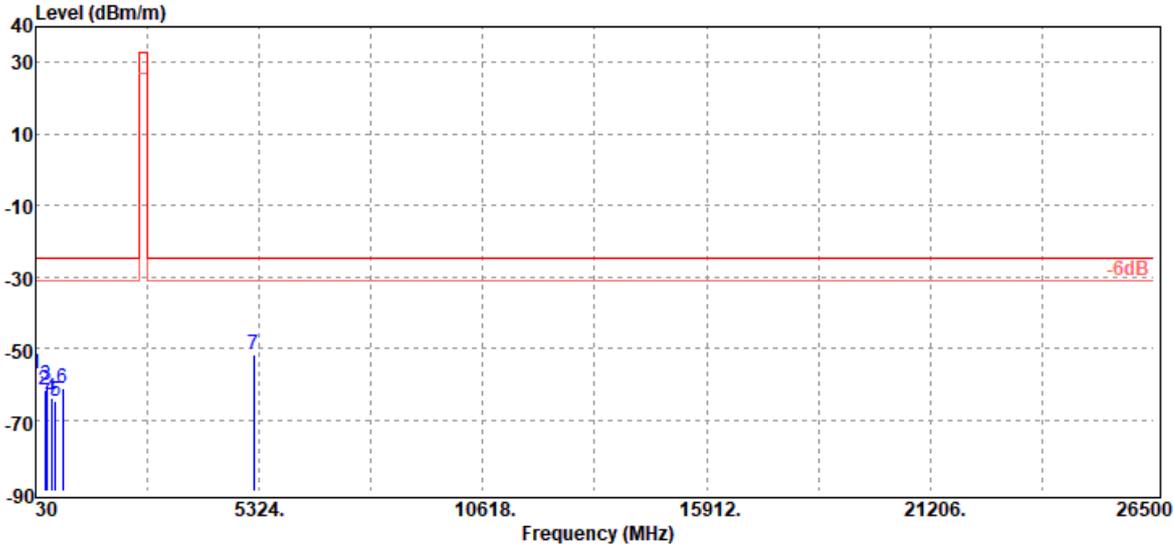
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-53.81	-23.31	-30.05	-0.45	-25.00	-28.81
78.50	-57.92	-48.53	-8.66	-0.73	-25.00	-32.92
182.29	-62.60	-57.22	-4.27	-1.11	-25.00	-37.60
444.19	-56.75	-52.95	-2.05	-1.75	-25.00	-31.75
499.48	-53.14	-49.31	-1.96	-1.87	-25.00	-28.14
537.31	-56.85	-53.67	-1.25	-1.93	-25.00	-31.85
5186.00	-51.78	-58.03	12.92	-6.67	-25.00	-26.78
7779.00	-41.88	-44.67	11.14	-8.35	-25.00	-16.88

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Operation Band :LTE B41 20M QPSK RB1,0
Fundamental Frequency :2593 MHz
Operation Mode :TX CH MID
EUT Pol. :H Plan

Test Date :2019-04-02
Temp./Humi. :25/60
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-57.24	-26.74	-30.05	-0.45	-25.00	-32.24
247.28	-61.57	-58.41	-1.86	-1.30	-25.00	-36.57
287.05	-60.16	-56.43	-2.33	-1.40	-25.00	-35.16
397.63	-63.84	-60.59	-1.60	-1.65	-25.00	-38.84
498.51	-64.69	-60.84	-1.98	-1.87	-25.00	-39.69
665.35	-61.28	-57.66	-1.45	-2.17	-25.00	-36.28
5186.00	-51.78	-58.03	12.92	-6.67	-25.00	-26.78

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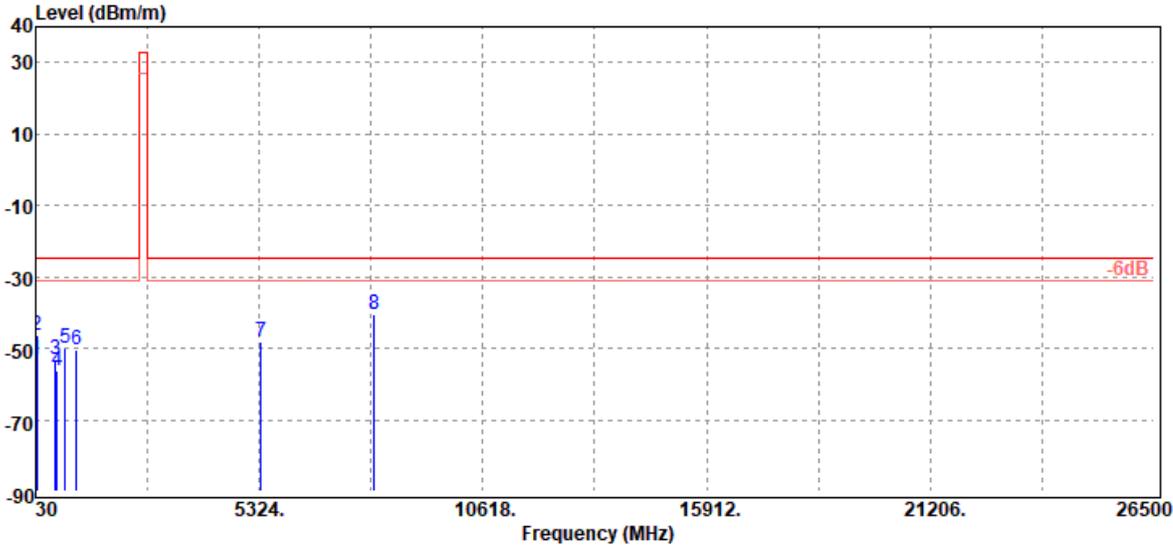
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Operation Band :LTE B41 20M QPSK RB1,0
Fundamental Frequency :2680 MHz
Operation Mode :TX CH HIGH
EUT Pol. :H Plan

Test Date :2019-04-02
Temp./Humi. :25/60
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



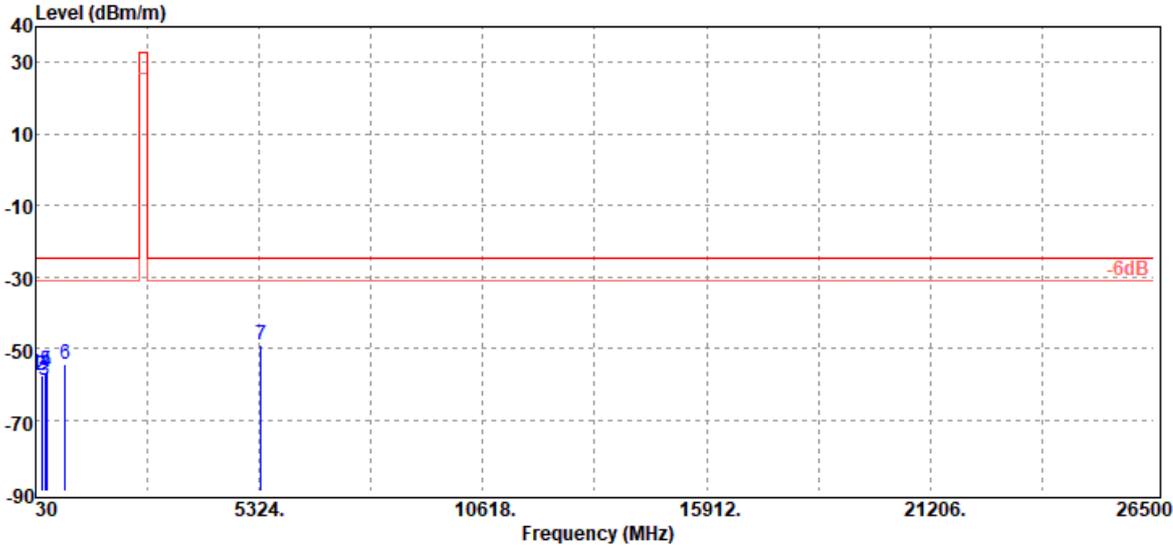
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-53.17	-22.67	-30.05	-0.45	-25.00	-28.17
65.89	-46.47	-35.74	-10.06	-0.67	-25.00	-21.47
499.48	-53.08	-49.25	-1.96	-1.87	-25.00	-28.08
533.43	-56.46	-53.25	-1.28	-1.93	-25.00	-31.46
729.37	-49.93	-46.29	-1.36	-2.28	-25.00	-24.93
997.09	-50.51	-46.44	-1.39	-2.68	-25.00	-25.51
5360.00	-48.26	-54.66	13.26	-6.86	-25.00	-23.26
8040.00	-40.41	-42.58	10.58	-8.41	-25.00	-15.41

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Operation Band :LTE B41 20M QPSK RB1,0
Fundamental Frequency :2680 MHz
Operation Mode :TX CH HIGH
EUT Pol. :H Plan

Test Date :2019-04-02
Temp./Humi. :25/60
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



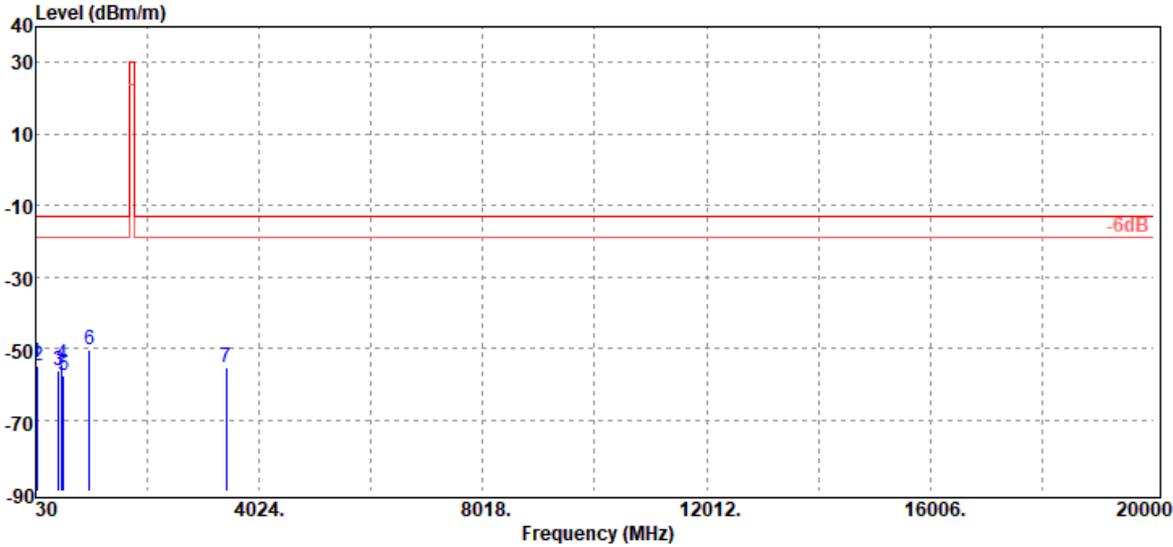
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-57.31	-26.81	-30.05	-0.45	-25.00	-32.31
182.29	-57.53	-52.15	-4.27	-1.11	-25.00	-32.53
250.19	-59.08	-56.03	-1.74	-1.31	-25.00	-34.08
273.47	-56.62	-52.63	-2.62	-1.37	-25.00	-31.62
288.02	-56.45	-52.78	-2.27	-1.40	-25.00	-31.45
729.37	-54.55	-50.91	-1.36	-2.28	-25.00	-29.55
5360.00	-49.07	-55.47	13.26	-6.86	-25.00	-24.07

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Radiated Spurious Emission Measurement Result: LTE-Band 66 (The Worst Case)

Operation Band	:LTE B66 20M QPSK RB1,0	Test Date	:2019-04-02
Fundamental Frequency	:1720 MHz	Temp./Humi.	:25/60
Operation Mode	:TX CH LOW	Engineer	:Jerry
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL



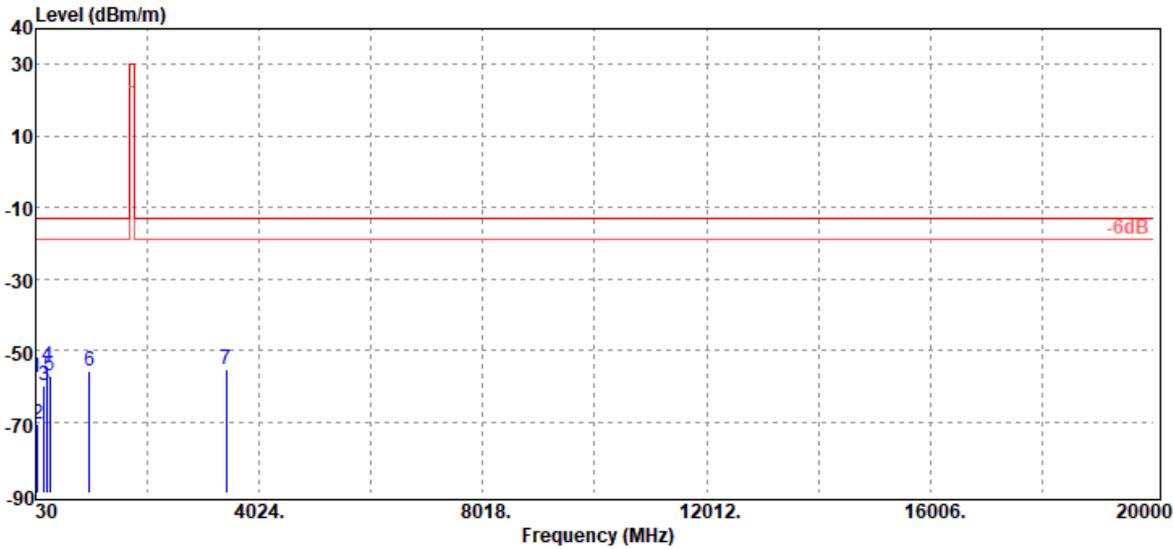
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-53.94	-23.44	-30.05	-0.45	-13.00	-40.94
72.68	-54.93	-44.85	-9.38	-0.70	-13.00	-41.93
445.16	-56.44	-52.64	-2.05	-1.75	-13.00	-43.44
499.48	-54.28	-50.45	-1.96	-1.87	-13.00	-41.28
523.73	-57.58	-54.29	-1.38	-1.91	-13.00	-44.58
997.09	-50.33	-46.26	-1.39	-2.68	-13.00	-37.33
3440.00	-55.59	-62.83	12.72	-5.48	-13.00	-42.59

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Operation Band :LTE B66 20M QPSK RB1,0
 Fundamental Frequency :1720 MHz
 Operation Mode :TX CH LOW
 EUT Pol. :H Plan

Test Date :2019-04-02
 Temp./Humi. :25/60
 Engineer :Jerry
 Measurement Antenna Pol. :HORIZONTAL



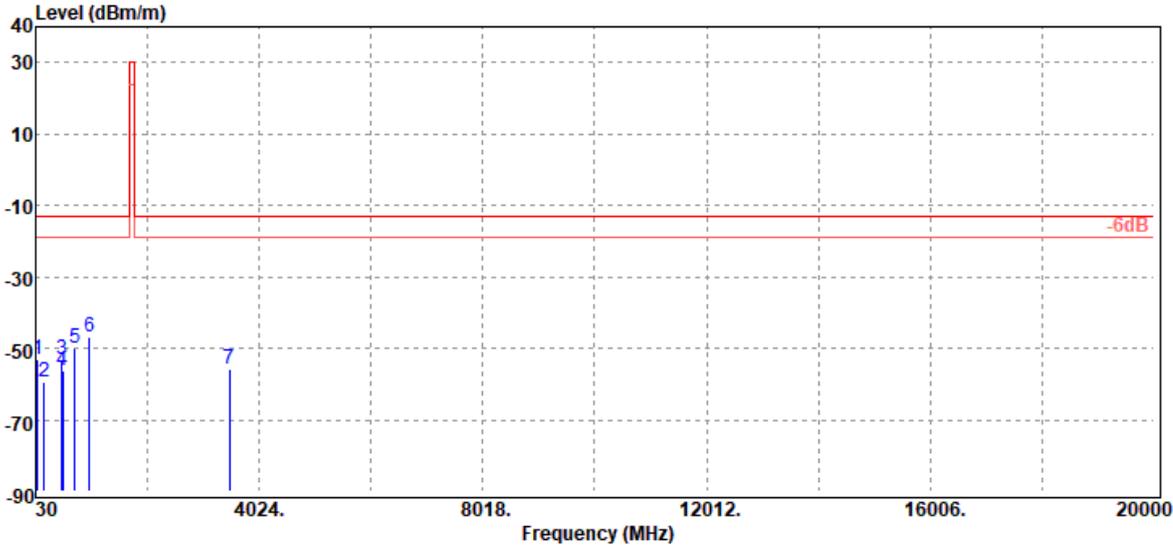
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.97	-57.61	-28.09	-29.06	-0.46	-13.00	-44.61
66.86	-70.64	-60	-9.96	-0.68	-13.00	-57.64
184.23	-59.91	-54.68	-4.11	-1.12	-13.00	-46.91
240.49	-54.45	-51.04	-2.13	-1.28	-13.00	-41.45
281.23	-57.30	-53.38	-2.53	-1.39	-13.00	-44.30
995.15	-55.73	-51.71	-1.35	-2.67	-13.00	-42.73
3440.00	-55.54	-62.78	12.72	-5.48	-13.00	-42.54

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Operation Band :LTE B66 20M QPSK RB1,0
Fundamental Frequency :1745 MHz
Operation Mode :TX CH MID
EUT Pol. :H Plan

Test Date :2019-04-02
Temp./Humi. :25/60
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



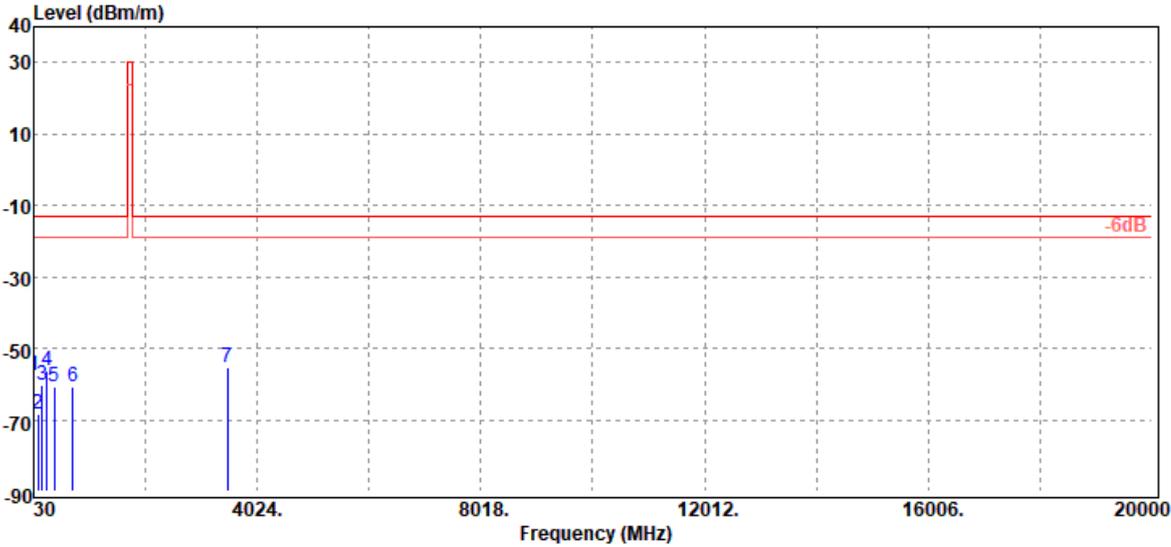
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
64.92	-53.31	-42.49	-10.15	-0.67	-13.00	-40.31
184.23	-59.61	-54.38	-4.11	-1.12	-13.00	-46.61
499.48	-52.90	-49.07	-1.96	-1.87	-13.00	-39.90
518.88	-56.16	-52.8	-1.45	-1.91	-13.00	-43.16
730.34	-50.12	-46.49	-1.35	-2.28	-13.00	-37.12
998.06	-46.75	-42.66	-1.41	-2.68	-13.00	-33.75
3490.00	-55.87	-62.89	12.54	-5.52	-13.00	-42.87

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Operation Band :LTE B66 20M QPSK RB1,0
Fundamental Frequency :1745 MHz
Operation Mode :TX CH MID
EUT Pol. :H Plan

Test Date :2019-04-02
Temp./Humi. :25/60
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



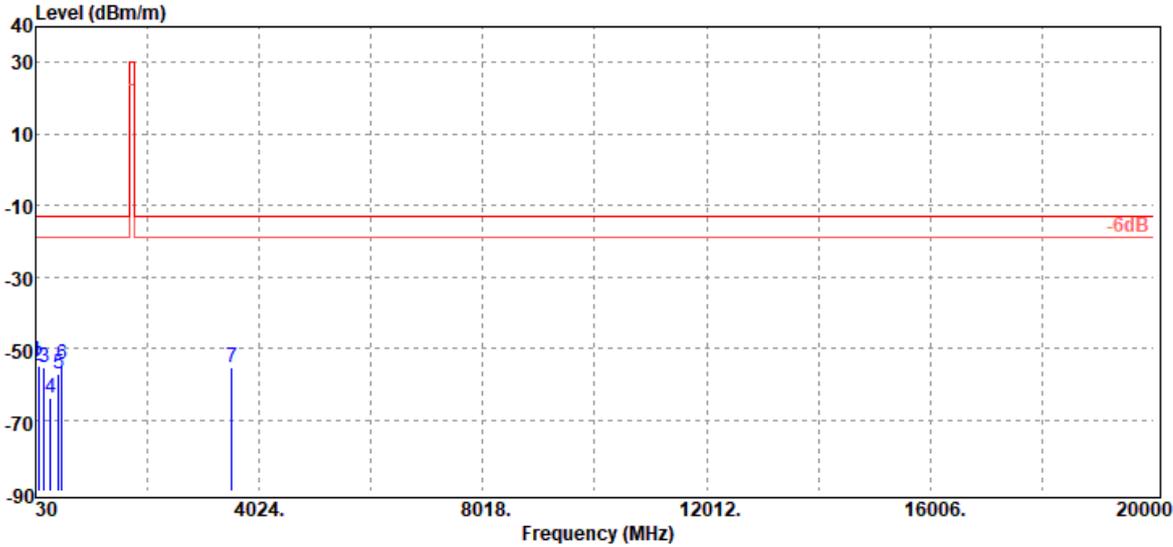
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-57.52	-27.02	-30.05	-0.45	-13.00	-44.52
103.72	-68.56	-58.62	-9.10	-0.84	-13.00	-55.56
183.26	-60.49	-55.18	-4.19	-1.12	-13.00	-47.49
275.41	-56.30	-52.29	-2.64	-1.37	-13.00	-43.30
395.69	-60.96	-57.75	-1.56	-1.65	-13.00	-47.96
733.25	-60.62	-56.99	-1.35	-2.28	-13.00	-47.62
3490.00	-55.47	-62.49	12.54	-5.52	-13.00	-42.47

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Operation Band :LTE B66 20M QPSK RB1,0
Fundamental Frequency :1770 MHz
Operation Mode :TX CH HIGH
EUT Pol. :H Plan

Test Date :2019-04-02
Temp./Humi. :25/60
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



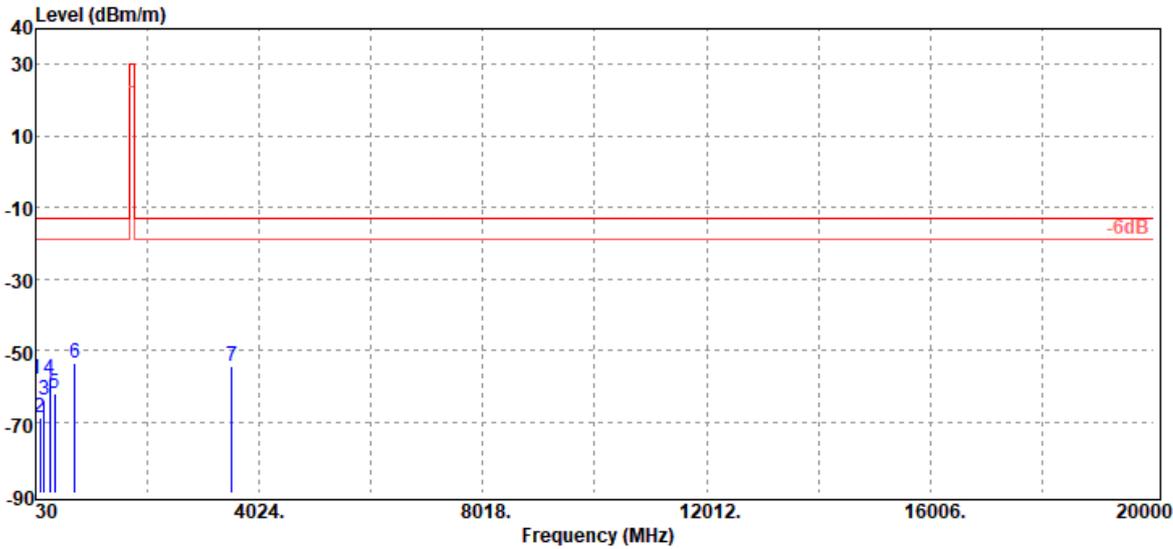
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-53.69	-23.19	-30.05	-0.45	-13.00	-40.69
76.56	-54.77	-45.12	-8.93	-0.72	-13.00	-41.77
184.23	-55.25	-50.02	-4.11	-1.12	-13.00	-42.25
291.90	-64.03	-60.47	-2.15	-1.41	-13.00	-51.03
444.19	-57.22	-53.42	-2.05	-1.75	-13.00	-44.22
497.54	-54.47	-50.61	-2.00	-1.86	-13.00	-41.47
3540.00	-55.46	-62.28	12.42	-5.60	-13.00	-42.46

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Operation Band :LTE B66 20M QPSK RB1,0
Fundamental Frequency :1770 MHz
Operation Mode :TX CH HIGH
EUT Pol. :H Plan

Test Date :2019-04-02
Temp./Humi. :25/60
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.97	-58.15	-28.63	-29.06	-0.46	-13.00	-45.15
102.75	-68.98	-59.24	-8.91	-0.83	-13.00	-55.98
183.26	-64.04	-58.73	-4.19	-1.12	-13.00	-51.04
287.05	-57.85	-54.12	-2.33	-1.40	-13.00	-44.85
375.32	-62.10	-58.85	-1.64	-1.61	-13.00	-49.10
734.22	-53.56	-49.93	-1.35	-2.28	-13.00	-40.56
3540.00	-54.65	-61.47	12.42	-5.60	-13.00	-41.65

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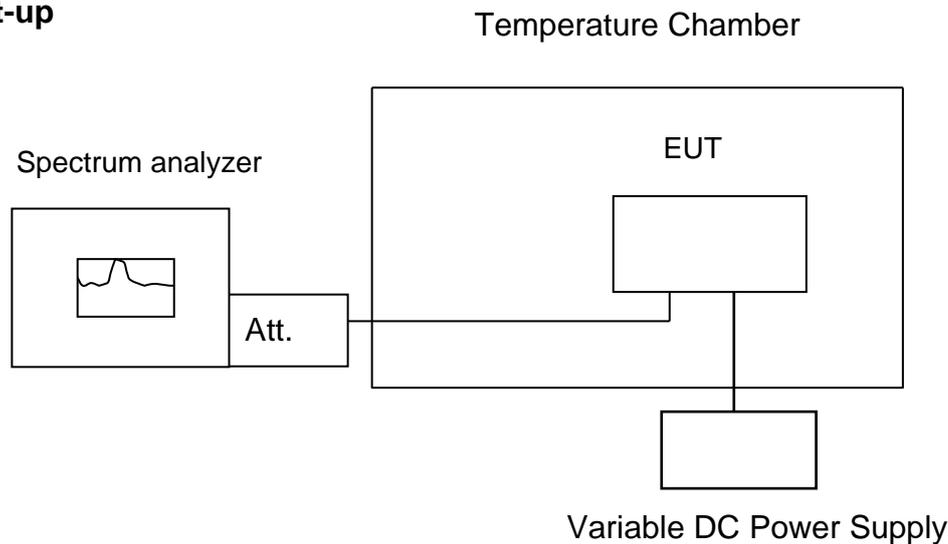
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10. FREQUENCY STABILITY MEASUREMENT

10.1. Standard Applicable

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

10.2. Test Set-up



Note: Measurement setup for testing on Antenna connector

10.3. Measurement Procedure

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

Set chamber temperature to 25°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency. Reduce the input voltage to specify extreme voltage variation (+/- 15%) and endpoint as declared by the manufacturer, record the maximum frequency change.

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10.4. Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	N9010A	MY53400256	11/21/2018	11/20/2019
Radio Communication Analyzer	Anritsu	MT8820C	6201465317	01/16/2019	01/15/2020
DC Power Supply	Agilent	E3640A	MY53130054	09/03/2018	09/02/2019
Splitter	Woken	DOM35LW1A2	RF83	02/26/2019	02/25/2020
Attenuator	Marvelous	MVE2213-10	RF80	02/26/2019	02/25/2020
Thermostatic/Hrgrosatic Chamber	TAICHY	MHG-150LF	930619	10/08/2018	10/07/2019
DC Block	PASTER-NACK	PE8210	RF256	02/26/2019	02/25/2020

10.5. Measurement Result

WCDMA II Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm				
Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit (Hz)
FREQUENCY ERROR vs. VOLTAGE				
7.7	20	1879.999995	-5	4700
7.2 (End point)	20	1879.999999	-1	4700
FREQUENCY ERROR vs. Temp.				
7.7	50	1879.999995	-5	4700
7.7	40	1879.999996	-4	4700
7.7	30	1879.999999	-1	4700
7.7	20	1879.999995	-5	4700
7.7	10	1879.999994	-6	4700
7.7	0	1879.999995	-5	4700
7.7	-10	1879.999994	-6	4700
7.7	-20	1879.999997	-3	4700
7.7	-30	1880.000004	4	4700

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WCDMA IV Mid Channel 1732.6 MHz				
Limit: +/- 2.5 ppm				
Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit (Hz)
FREQUENCY ERROR vs. VOLTAGE				
7.7	20	1732.600005	5	4331
7.2 (End point)	20	1732.599995	-5	4331
FREQUENCY ERROR vs. Temp.				
7.7	50	1732.600001	1	4331
7.7	40	1732.599993	-7	4331
7.7	30	1732.600001	1	4331
7.7	20	1732.600005	5	4331
7.7	10	1732.599996	-4	4331
7.7	0	1732.599998	-2	4331
7.7	-10	1732.600002	2	4331
7.7	-20	1732.599997	-3	4331
7.7	-30	1732.599993	-7	4331

WCDMA V Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm				
Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit (Hz)
FREQUENCY ERROR vs. VOLTAGE				
7.7	20	836.599997	-3	2091
7.2 (End point)	20	836.599996	-4	2091
FREQUENCY ERROR vs. Temp.				
7.7	50	836.600001	1	2091
7.7	40	836.599999	-1	2091
7.7	30	836.599995	-5	2091
7.7	20	836.599997	-3	2091
7.7	10	836.600001	1	2091
7.7	0	836.600005	5	2091
7.7	-10	836.600004	4	2091
7.7	-20	836.600002	2	2091
7.7	-30	836.600004	4	2091

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SGS Compliance Certification Services Inc. No.11, Wugong 6th Rd., Wugu Dist., New Taipei City 24891, Taiwan / 新北市五股區五工六路11號

程智科技股份有限公司

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Member of the SGS Group (SGS SA)

Reference Freq.: LTE B2 Mid Channel 1880 MHz 20M QPSK CH 18900				
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
7.7	25	1880.000003	3	4700
7.2 (End Point)	25	1880.000001	1	4700
Freq. ERROR vs. Temp.				
7.7	-30	1879.999996	-4	4700
7.7	-20	1880.000001	1	4700
7.7	-10	1879.999998	-2	4700
7.7	0	1880.000000	0	4700
7.7	10	1880.000006	6	4700
7.7	20	1880.000001	1	4700
7.7	30	1880.000006	6	4700
7.7	40	1880.000008	8	4700
7.7	50	1880.000002	2	4700

Reference Freq.: LTE B4 Mid Channel 1733 MHz 20M QPSK CH 20175				
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
7.7	25	1732.500006	6	4331
7.2 (End Point)	25	1732.500001	1	4331
Freq. ERROR vs. Temp.				
7.7	-30	1732.500007	7	4331
7.7	-20	1732.499995	-5	4331
7.7	-10	1732.500003	3	4331
7.7	0	1732.499996	-4	4331
7.7	10	1732.500009	9	4331
7.7	20	1732.500004	4	4331
7.7	30	1732.500005	5	4331
7.7	40	1732.500002	2	4331
7.7	50	1732.500005	5	4331

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Reference Freq.: LTE B5 Mid Channel 836.5 MHz 10M QPSK CH 20525				
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
7.7	25	836.500008	8	2091
7.2 (End Point)	25	836.500008	8	2091
Freq. ERROR vs. Temp.				
7.7	-30	836.500005	5	2091
7.7	-20	836.500008	8	2091
7.7	-10	836.500009	9	2091
7.7	0	836.499995	-5	2091
7.7	10	836.500006	6	2091
7.7	20	836.500002	2	2091
7.7	30	836.499996	-4	2091
7.7	40	836.499995	-5	2091
7.7	50	836.500004	4	2091

Reference Freq.: LTE B7 Mid Channel 2535 MHz 10M QPSK CH 21100				
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
7.7	25	2535.000000	0	6338
7.2 (End Point)	25	2535.000003	3	6338
Freq. ERROR vs. Temp.				
7.7	-30	2534.999997	-3	6338
7.7	-20	2534.999999	-1	6338
7.7	-10	2535.000001	1	6338
7.7	0	2535.000000	0	6338
7.7	10	2535.000007	7	6338
7.7	20	2535.000002	2	6338
7.7	30	2535.000007	7	6338
7.7	40	2534.999999	-1	6338
7.7	50	2535.000006	6	6338

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Reference Freq.: LTE B12 Mid Channel 707.5 MHz 10M QPSK CH 23095				
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
7.7	25	707.499996	-4	1769
7.2 (End Point)	25	707.500006	6	1769
Freq. ERROR vs. Temp.				
7.7	-30	707.499997	-3	1769
7.7	-20	707.499998	-2	1769
7.7	-10	707.500005	5	1769
7.7	0	707.499996	-4	1769
7.7	10	707.499998	-2	1769
7.7	20	707.500002	2	1769
7.7	30	707.500008	8	1769
7.7	40	707.500006	6	1769
7.7	50	707.500005	5	1769

Reference Freq.: LTE B13 Mid Channel 782 MHz 10M QPSK CH 23230				
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
7.7	25	782.000005	5	1955
7.2 (End Point)	25	782.000008	8	1955
Freq. ERROR vs. Temp.				
7.7	-30	782.000008	8	1955
7.7	-20	782.000001	1	1955
7.7	-10	781.999997	-3	1955
7.7	0	782.000003	3	1955
7.7	10	781.999998	-2	1955
7.7	20	782.000008	8	1955
7.7	30	781.999995	-5	1955
7.7	40	781.999995	-5	1955
7.7	50	781.999996	-4	1955

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Reference Freq.: LTE B14 Mid Channel 793 MHz 10M QPSK CH 23330				
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
7.7	25	792.999998	-2	1983
7.2 (End Point)	25	792.999995	-5	1983
Freq. ERROR vs. Temp.				
7.7	-30	793.000004	4	1983
7.7	-20	793.000000	0	1983
7.7	-10	793.000005	5	1983
7.7	0	793.000000	0	1983
7.7	10	792.999995	-5	1983
7.7	20	792.999995	-5	1983
7.7	30	792.999997	-3	1983
7.7	40	793.000005	5	1983
7.7	50	792.999995	-5	1983

Reference Freq.: LTE B17 Mid Channel 710 MHz 10M QPSK CH 23790				
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
7.7	25	710.000007	7	1775
7.2 (End Point)	25	709.999995	-5	1775
Freq. ERROR vs. Temp.				
7.7	-30	709.999997	-3	1775
7.7	-20	709.999997	-3	1775
7.7	-10	710.000002	2	1775
7.7	0	709.999995	-5	1775
7.7	10	709.999999	-1	1775
7.7	20	710.000004	4	1775
7.7	30	709.999996	-4	1775
7.7	40	710.000002	2	1775
7.7	50	710.000003	3	1775

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Reference Freq.: LTE B25 Mid Channel 1883 MHz 20M QPSK CH 26365				
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
7.7	25	1882.500009	9	4700
7.2 (End Point)	25	1882.500009	9	4700
Freq. ERROR vs. Temp.				
7.7	-30	1882.500002	2	4700
7.7	-20	1882.500000	0	4700
7.7	-10	1882.499998	-2	4700
7.7	0	1882.499998	-2	4700
7.7	10	1882.500008	8	4700
7.7	20	1882.500001	1	4700
7.7	30	1882.500002	2	4700
7.7	40	1882.500004	4	4700
7.7	50	1882.500001	1	4700

Reference Freq.: LTE B26 Mid Channel 831.5 MHz 15M QPSK CH 26865				
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
7.7	25	831.500007	7	2091
7.2 (End Point)	25	831.500003	3	2091
Freq. ERROR vs. Temp.				
7.7	-30	831.500001	1	2091
7.7	-20	831.500008	8	2091
7.7	-10	831.500000	0	2091
7.7	0	831.500008	8	2091
7.7	10	831.500009	9	2091
7.7	20	831.500008	8	2091
7.7	30	831.500004	4	2091
7.7	40	831.500008	8	2091
7.7	50	831.500000	0	2091

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Reference Freq.: Part 90 LTE B26 Mid Channel 819 MHz 10M QPSK CH 26740				
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE (LTE B26 for Part 90S)				
7.7	25	819.000000	0	2048
7.2 (End Point)	25	818.999999	-1	2048
Freq. ERROR vs. Temp.				
7.7	-30	819.000001	1	2048
7.7	-20	819.000004	4	2048
7.7	-10	818.999996	-4	2048
7.7	0	818.999999	-1	2048
7.7	10	819.000007	7	2048
7.7	20	819.000001	1	2048
7.7	30	818.999997	-3	2048
7.7	40	819.000003	3	2048
7.7	50	819.000001	1	2048

Reference Freq.: LTE B30 Mid Channel 2310 MHz 10M QPSK CH 27710				
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
7.7	25	2309.999999	-1	6488
7.2 (End Point)	25	2310.000004	4	6488
Freq. ERROR vs. Temp.				
7.7	-30	2309.999997	-3	6488
7.7	-20	2309.999997	-3	6488
7.7	-10	2310.000002	2	6488
7.7	0	2309.999998	-2	6488
7.7	10	2310.000005	5	6488
7.7	20	2309.999996	-4	6488
7.7	30	2310.000003	3	6488
7.7	40	2310.000008	8	6488
7.7	50	2310.000005	5	6488

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Reference Freq.: LTE B38 Mid Channel 2595 MHz 10M QPSK CH 38000				
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
7.7	25	2595.000001	1	6488
7.2 (End Point)	25	2595.000000	0	6488
Freq. ERROR vs. Temp.				
7.7	-30	2594.999996	-4	6488
7.7	-20	2595.000007	7	6488
7.7	-10	2594.999997	-3	6488
7.7	0	2595.000003	3	6488
7.7	10	2595.000004	4	6488
7.7	20	2595.000001	1	6488
7.7	30	2595.000008	8	6488
7.7	40	2594.999998	-2	6488
7.7	50	2594.999997	-3	6488

Reference Freq.: LTE B41 Mid Channel 2593 MHz 10M QPSK CH 40620				
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
7.7	25	2592.999999	-1	6488
7.2 (End Point)	25	2593.000009	9	6488
Freq. ERROR vs. Temp.				
7.7	-30	2593.000001	1	6488
7.7	-20	2593.000000	0	6488
7.7	-10	2593.000004	4	6488
7.7	0	2593.000008	8	6488
7.7	10	2592.999996	-4	6488
7.7	20	2593.000008	8	6488
7.7	30	2592.999999	-1	6488
7.7	40	2593.000008	8	6488
7.7	50	2593.000008	8	6488

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Reference Freq.:		LTE B66 Mid Channel		1745	MHz 10M QPSK CH 132322
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)	
Freq. ERROR vs. VOLTAGE					
7.7	25	1745.000003	3	6488	
7.2 (End Point)	25	1745.000003	3	6488	
Freq. ERROR vs. Temp.					
7.7	-30	1745.000005	5	6488	
7.7	-20	1745.000009	9	6488	
7.7	-10	1745.000003	3	6488	
7.7	0	1745.000003	3	6488	
7.7	10	1745.000005	5	6488	
7.7	20	1744.999997	-3	6488	
7.7	30	1744.999996	-4	6488	
7.7	40	1745.000002	2	6488	
7.7	50	1744.999995	-5	6488	

Note: The battery is rated 7.7Vdc.

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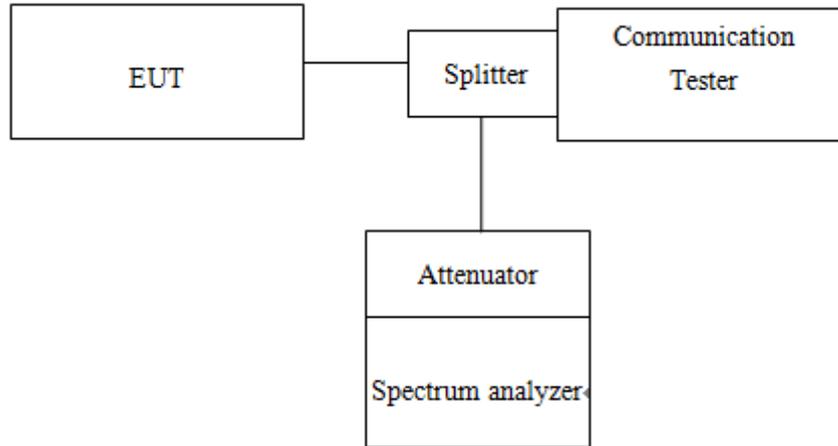
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11. PEAK TO AVERAGE RATIO

11.1. Standard Applicable

The peak-to-average ratio (PAR) of the transmission may not exceed 13dB.

11.2. Test SET-UP



11.3. Measurement Procedure

1. KDB 971168 D01 is employed as the following procedure is proper adjusted accordingly:
2. Set resolution/measurement bandwidth \geq signal's occupied bandwidth; & internal =1ms
3. Set the number of counts to a value that stabilizes the measured CCDF curve.

11.4. Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	N9010A	MY53400256	11/21/2018	11/20/2019
Radio Communication Analyzer	Anritsu	MT8820C	6201465317	01/16/2019	01/15/2020
DC Power Supply	Agilent	E3640A	MY53130054	09/03/2018	09/02/2019
Splitter	Woken	DOM35LW1A2	RF83	02/26/2019	02/25/2020
Attenuator	Marvelous	MVE2213-10	RF80	02/26/2019	02/25/2020

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11.5. Measurement Result

Tabular Results:

Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA	HSDPA	HSUPA
		II	II	II
1852.4	9262	3.09	3.10	3.10
1880	9400	2.96	2.99	3.00
1907.6	9538	2.53	2.54	2.58

Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA	HSDPA	HSUPA
		IV	IV	IV
1712.4	1312	3.21	3.14	3.22
1732.6	1413	2.81	2.78	2.83
1752.6	1513	3.35	3.34	3.35

LTE BAND 2							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
1850.7	18607	5.84	13	1851.5	18615	6.00	13
1880.0	18900	5.79	13	1880.0	18900	5.98	13
1909.3	19193	5.05	13	1908.5	19185	5.56	13

LTE BAND 2							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
1852.5	18625	6.20	13	1855.0	18650	6.26	13
1880.0	18900	6.14	13	1880.0	18900	6.09	13
1907.5	19175	5.89	13	1905.0	19150	5.98	13

LTE BAND 2							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
1857.5	18675	6.35	13	1860.0	18700	6.14	13
1880.0	18900	6.01	13	1880.0	18900	6.21	13
1902.5	19125	5.97	13	1900.0	19100	6.19	13

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LTE BAND 4							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
1710.7	19957	6.22	13	1711.5	19965	6.30	13
1732.5	20175	6.03	13	1732.5	20175	6.09	13
1754.3	20393	6.58	13	1753.5	20385	6.36	13

LTE BAND 4							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
1712.5	19957	6.31	13	1715.0	20000	6.41	13
1732.5	20175	6.19	13	1732.5	20175	6.18	13
1752.5	20375	6.42	13	1750.0	20350	6.40	13

LTE BAND 4							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
1717.5	20025	6.23	13	1720.0	20050	5.82	13
1732.5	20175	6.14	13	1732.5	20175	6.23	13
1747.5	20325	6.21	13	1745.0	20300	6.29	13

LTE BAND 7							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
2502.5	20775	6.49	13	2505.0	20800	6.27	13
2535.0	21100	6.27	13	2535.0	21100	6.19	13
2567.5	21375	6.07	13	2565.0	21350	5.88	13

LTE BAND 7							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
2507.5	20825	6.29	13	2510	20850	6.44	13
2535.0	21100	6.17	13	2535	21100	6.27	13
2562.5	21375	5.66	13	2560	21350	5.97	13

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LTE BAND 12							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
699.7	23017	4.27	13	700.5	23025	4.87	13
707.5	23095	5.44	13	707.5	23095	5.72	13
715.3	23173	4.62	13	714.5	23165	4.93	13

LTE BAND 12							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
701.5	23035	5.38	13	704.0	23060	5.84	13
707.5	23095	5.87	13	707.5	23095	5.66	13
713.5	23155	5.31	13	711.0	23130	5.40	13

LTE BAND 13							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
779.5	23205	5.70	13				
782.0	23230	5.72	13	782.0	23230	5.70	13
784.5	23255	5.60	13				

LTE BAND 17							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
706.5	23755	5.99	13	709.0	23780	5.61	13
710.0	23790	5.33	13	710.0	23790	5.46	13
713.5	23825	5.34	13	711.0	23800	5.43	13

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LTE BAND 25							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
1850.7	26047	5.88	13	1851.5	26055	5.99	13
1882.5	26365	6.07	13	1882.5	26365	6.19	13
1914.3	26683	4.88	13	1913.5	26675	5.45	13

LTE BAND 25							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
1852.5	26065	6.12	13	1855.0	26090	5.99	13
1882.5	26365	6.28	13	1882.5	26365	6.17	13
1912.5	26665	5.93	13	1910.0	26640	5.95	13

LTE BAND 25							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
1857.5	26115	5.83	13	1860.0	26140	6.06	13
1882.5	26365	6.02	13	1882.5	26365	6.09	13
1907.5	26615	5.80	13	1905.0	26590	5.87	13

LTE BAND 30							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
2307.5	27685	6.81	13	2310.0	27710	6.75	13
2310.0	27710	6.86	13				
2312.5	27735	6.82	13				

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LTE BAND 38							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
2572.5	37775	9.59	13	2575	37800	8.26	13
2595.0	38000	11.04	13	2595	38000	7.58	13
2617.5	38225	9.21	13	2615	38200	10.36	13

LTE BAND 38							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
2577.5	37825	8.63	13	2580.0	37850	8.90	13
2595.0	38000	10.91	13	2595.0	38000	7.30	13
2612.5	38175	9.32	13	2610.0	38150	9.99	13

LTE BAND 41							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
2498.5	39675	9.30	13	2501.0	39700	7.17	13
2593.0	40620	8.64	13	2593.0	40620	8.36	13
2687.5	41565	9.17	13	2685.0	41540	8.61	13

LTE BAND 41							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
2503.5	39725	8.32	13	2506.0	39750	8.91	13
2593.0	40620	9.01	13	2593.0	40620	8.10	13
2682.5	41515	7.10	13	2680.0	41490	10.50	13

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LTE BAND 66							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
1710.7	131979	5.95	13	1711.5	131987	6.14	13
1745.0	132322	5.96	13	1745.0	132322	6.09	13
1779.3	132665	5.99	13	1778.5	132657	6.19	13

LTE BAND 66							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
1712.5	131997	6.23	13	1715.0	132022	6.33	13
1745.0	132322	6.22	13	1745.0	132322	6.15	13
1777.5	132647	6.06	13	1775.0	132622	6.16	13

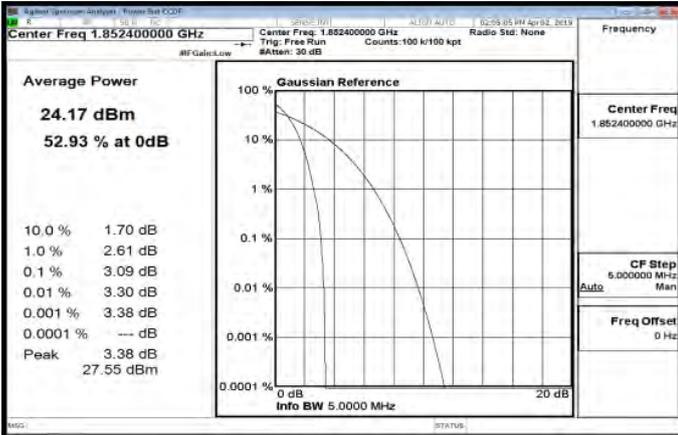
LTE BAND 66							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
1717.5	132047	6.27	13	1720.0	132072	6.24	13
1745.0	132322	6.06	13	1745.0	132322	6.25	13
1772.5	132597	5.97	13	1770.0	132572	6.34	13

Please refer to next page for test plots.

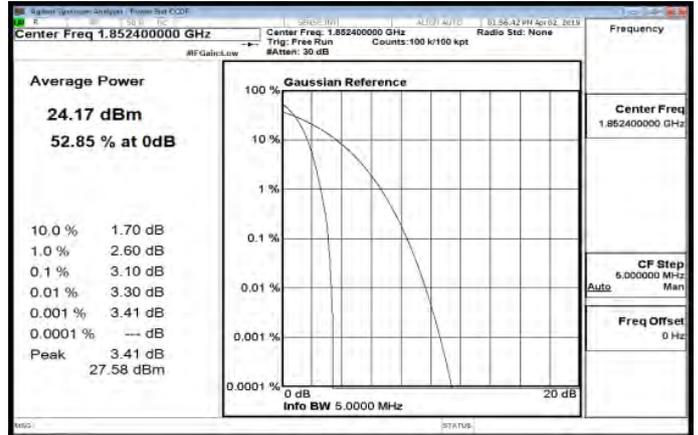
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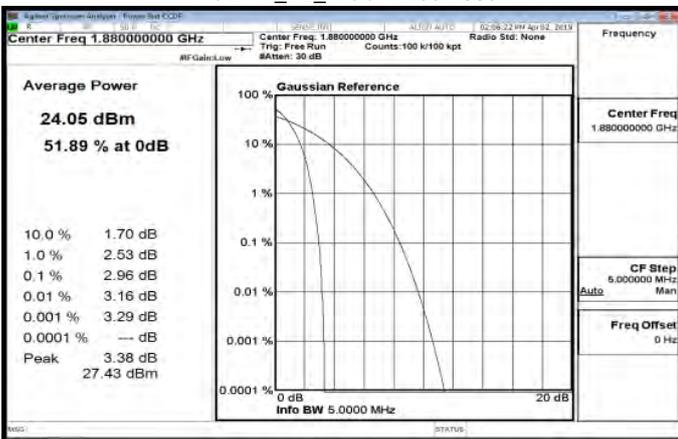
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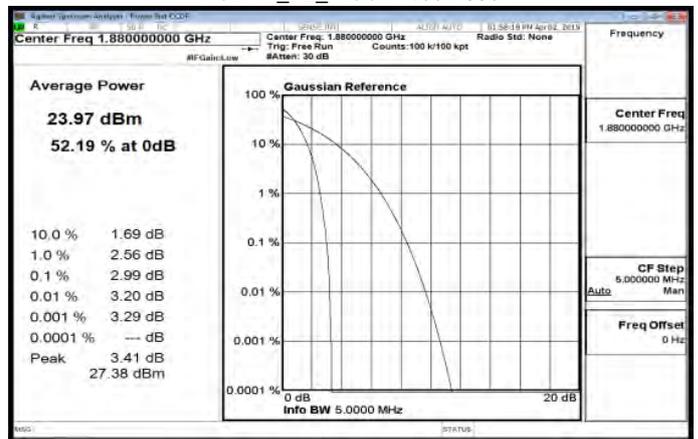
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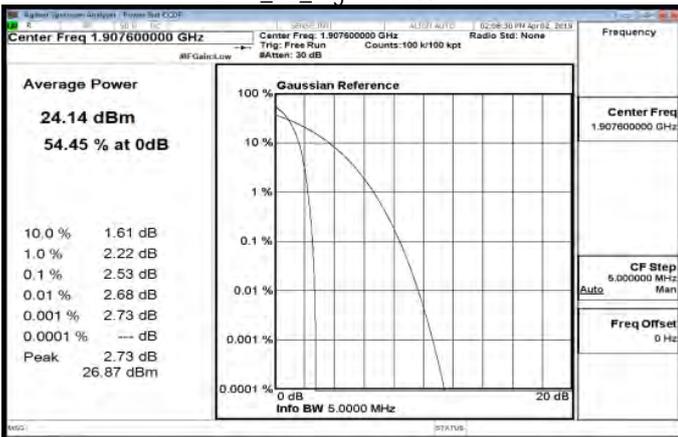
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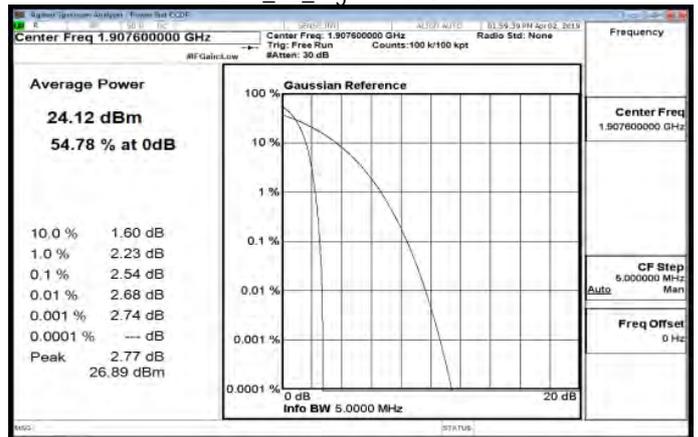
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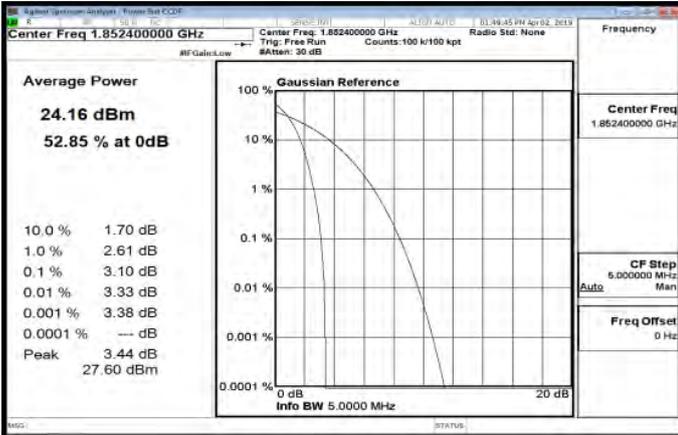
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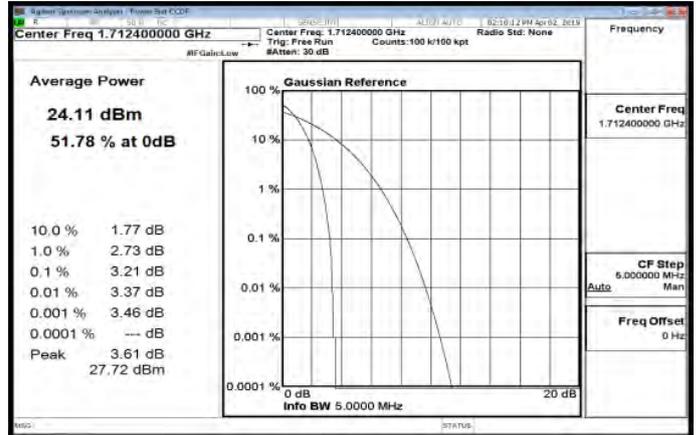
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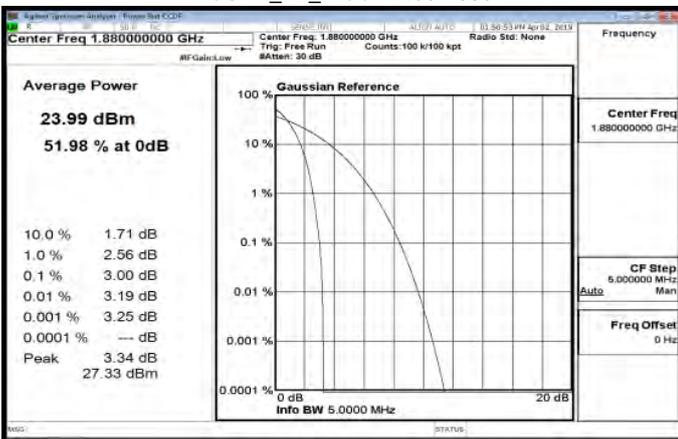
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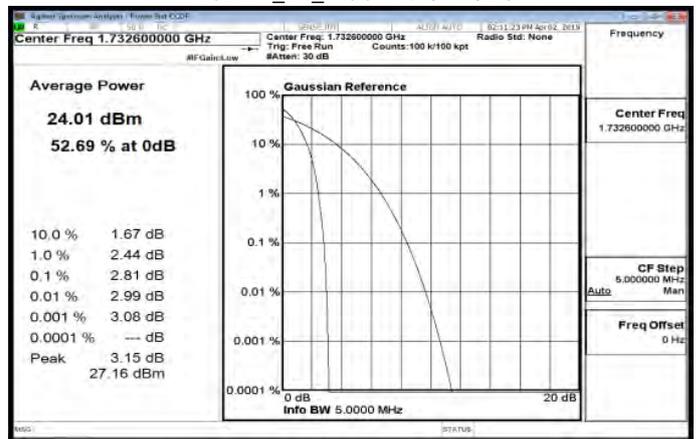
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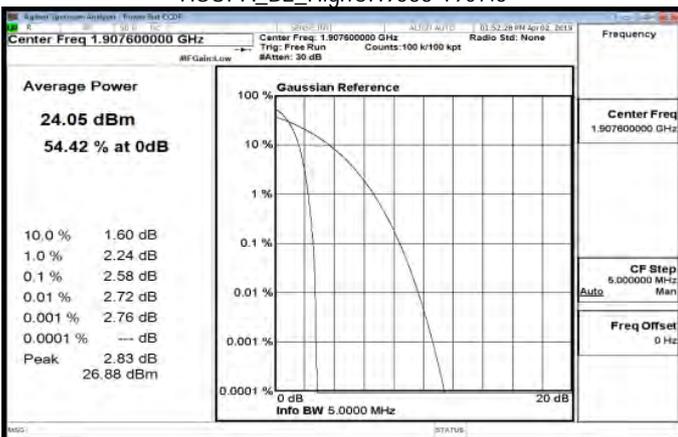
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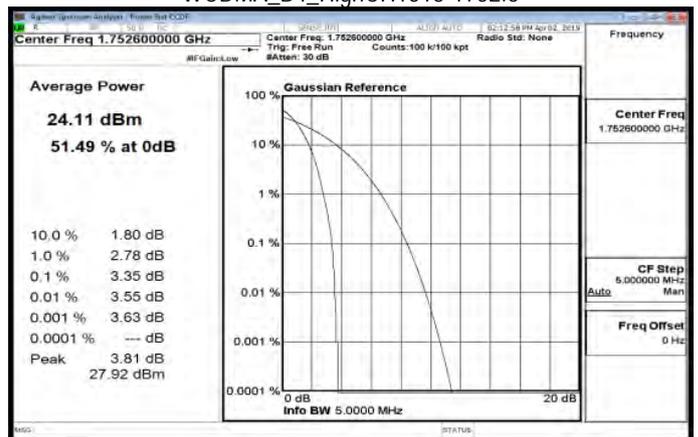
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HSUPA_B2_HighCH9538-1907.6



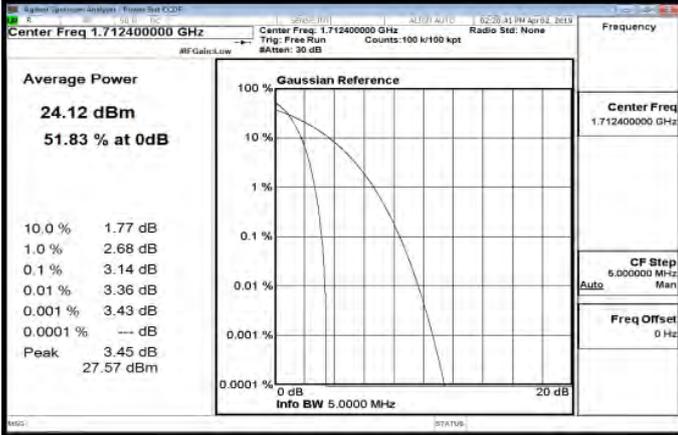
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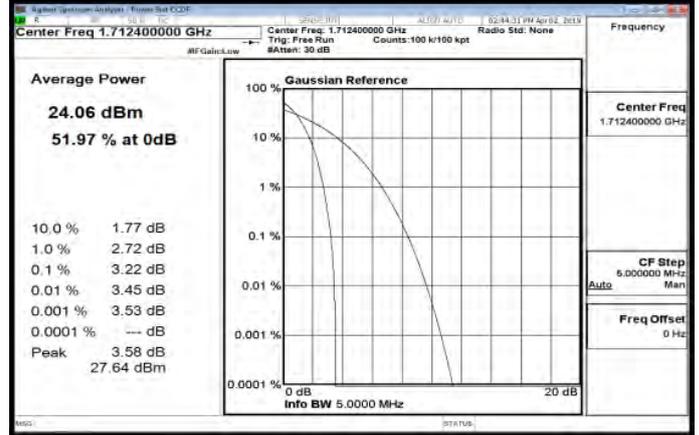
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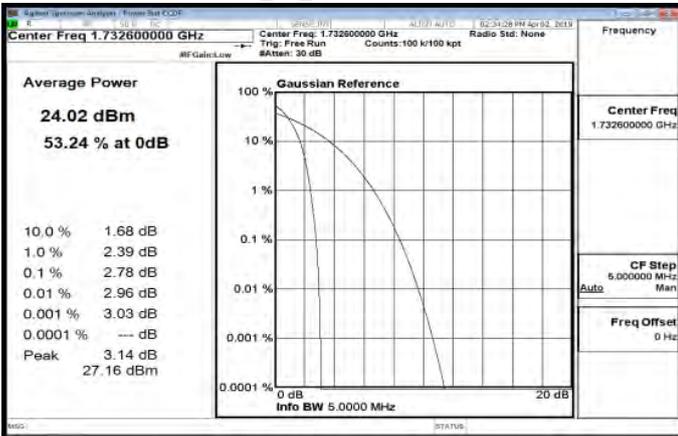
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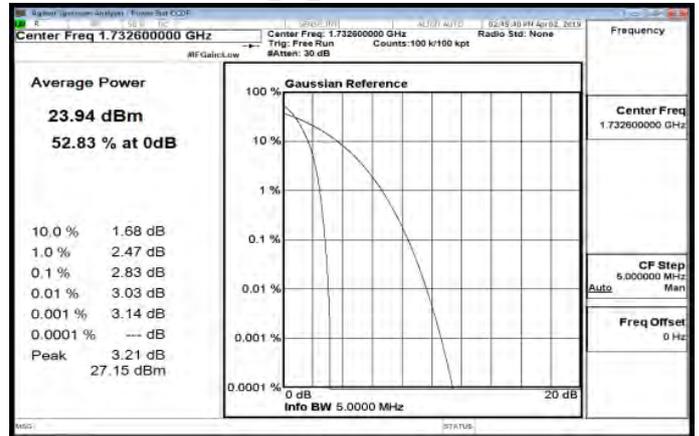
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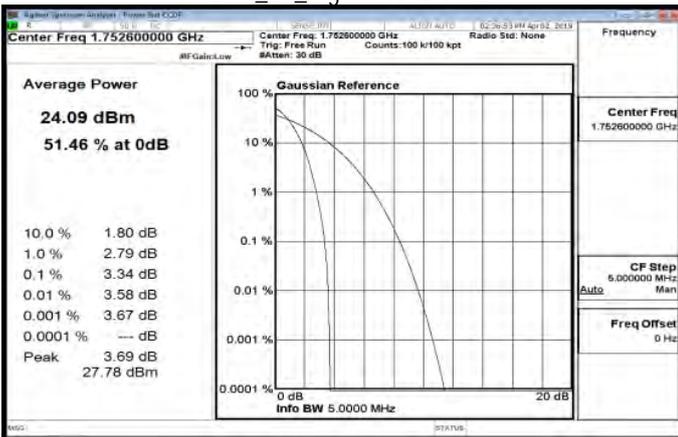
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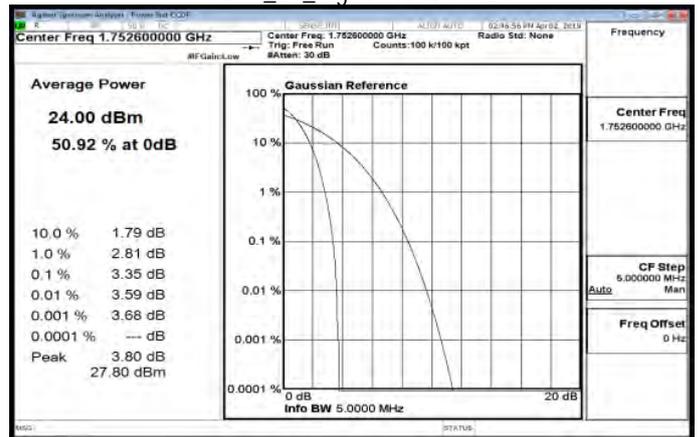
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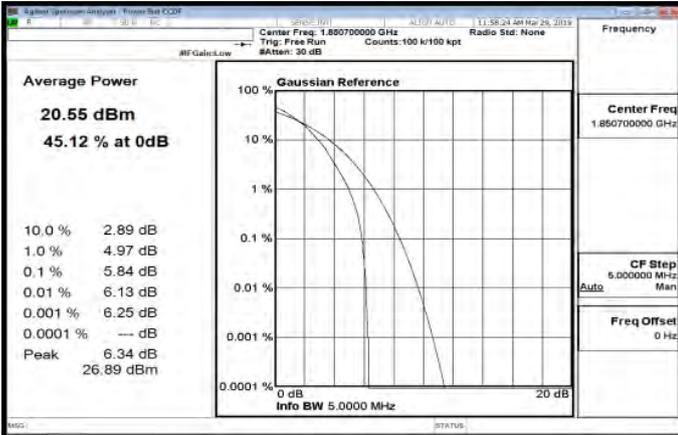


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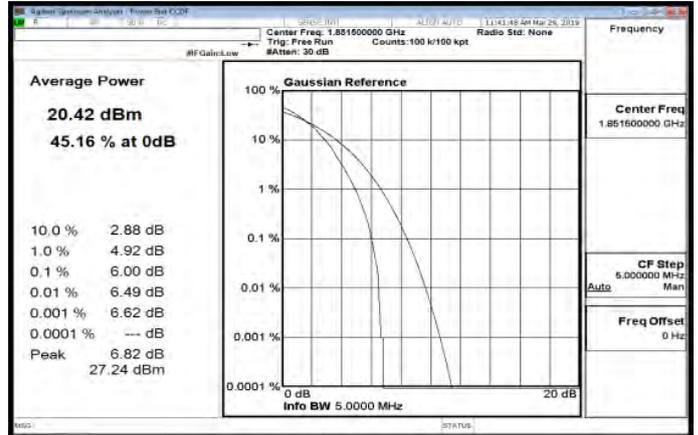
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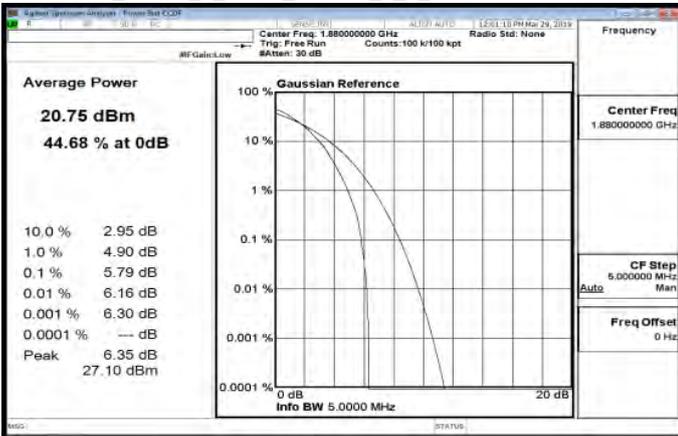
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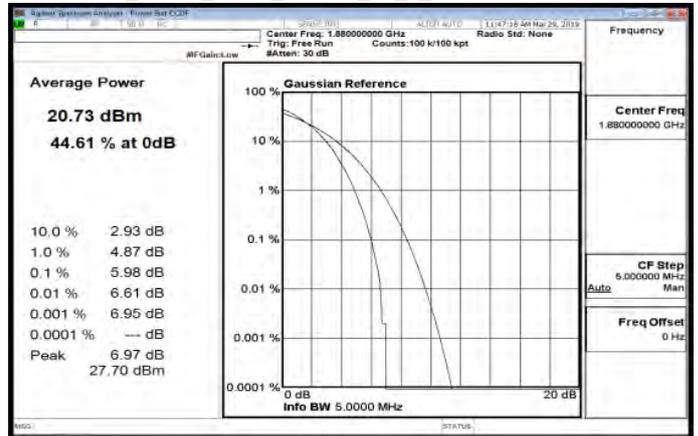
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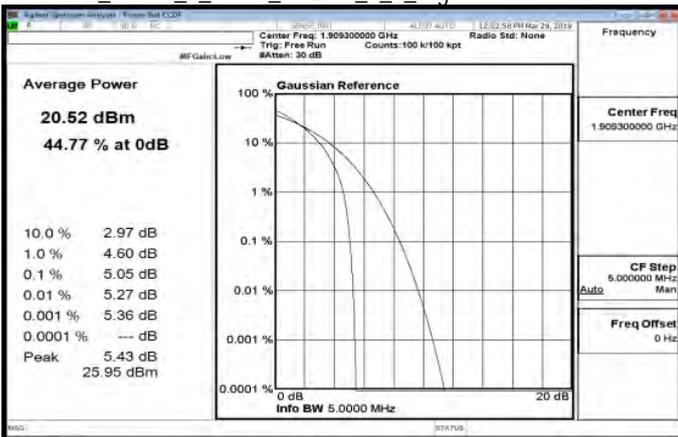
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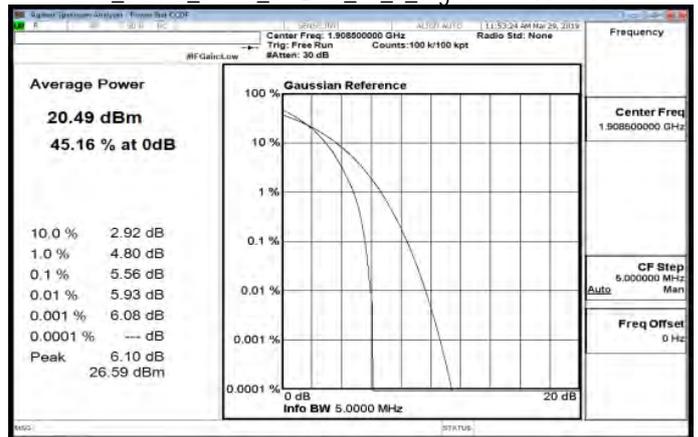
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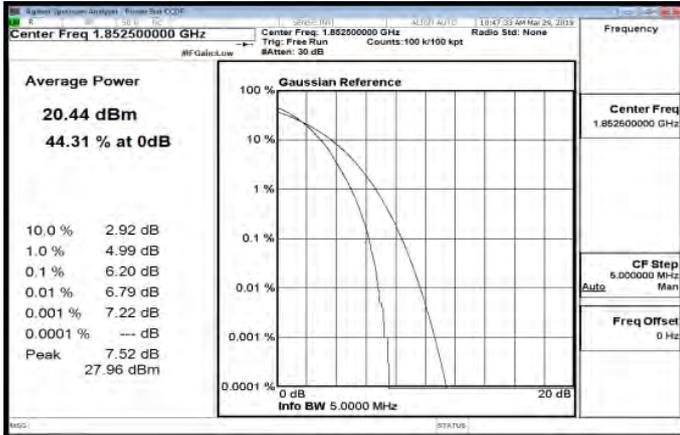


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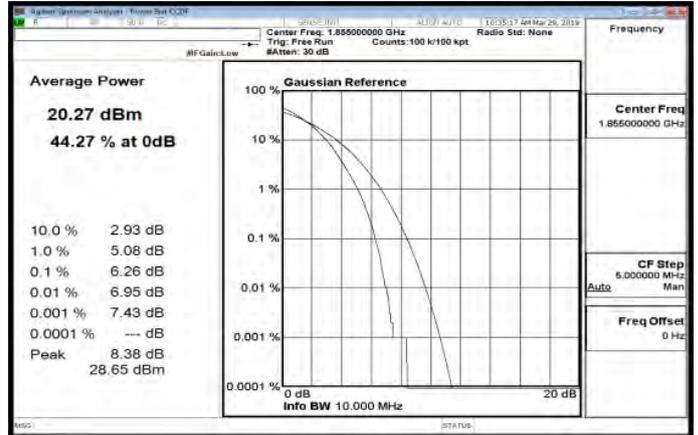
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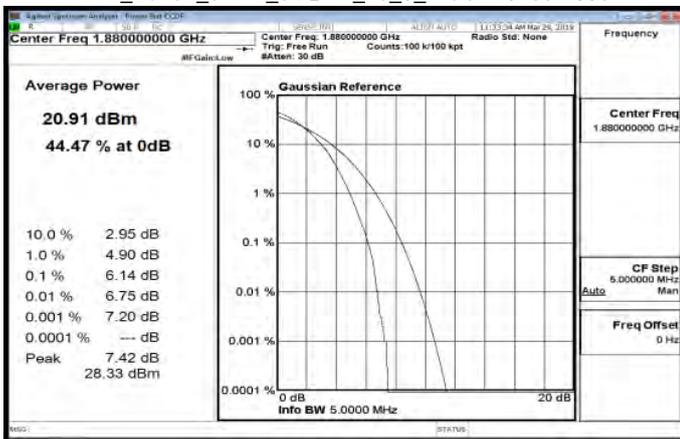
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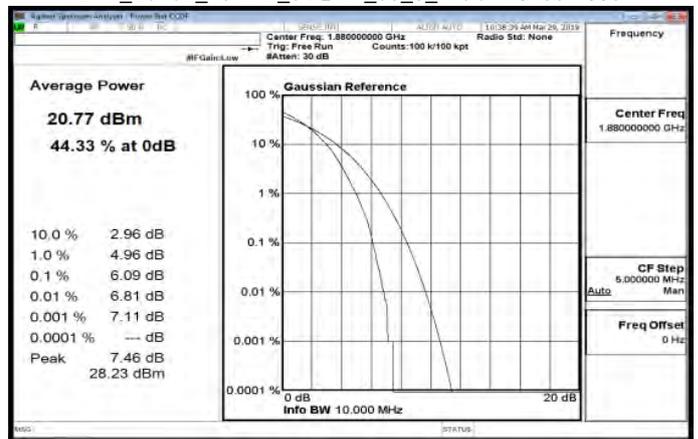
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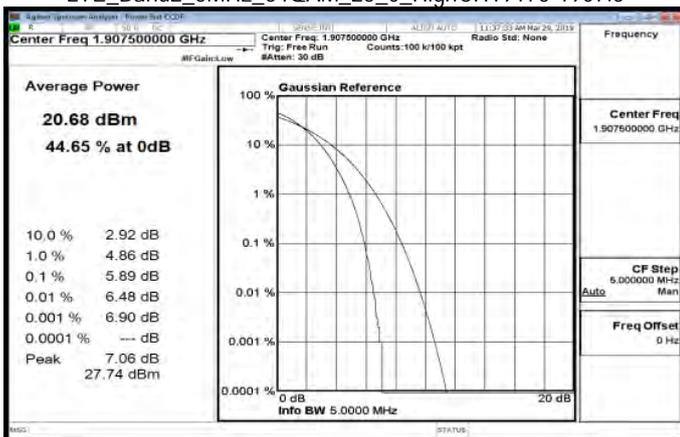
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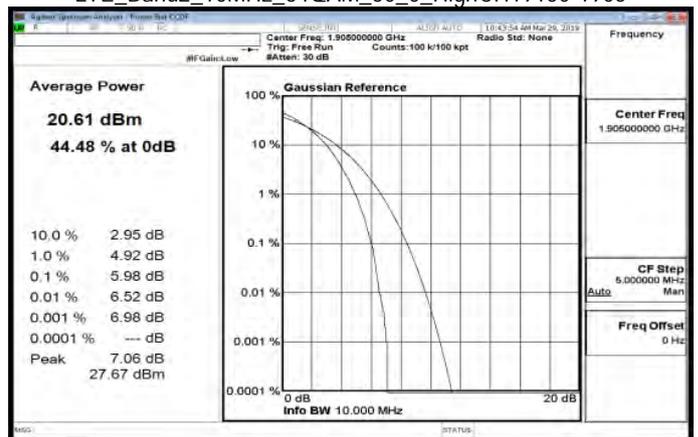
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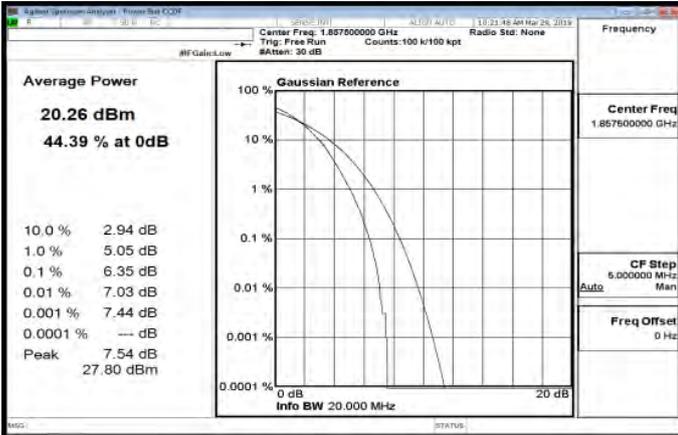
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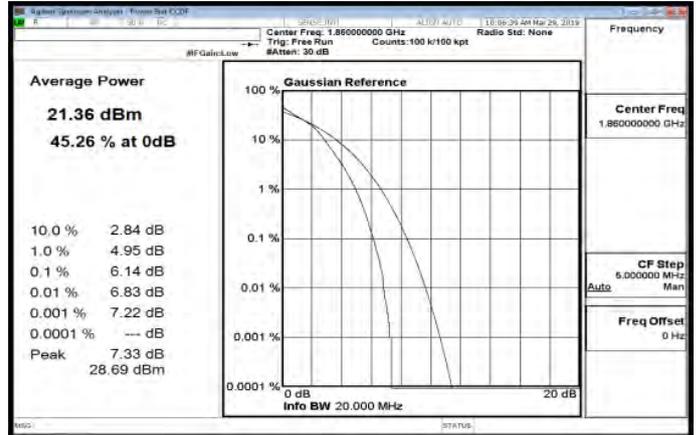
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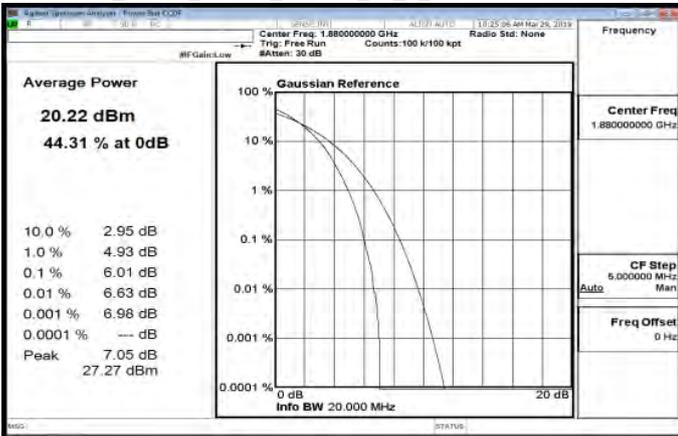
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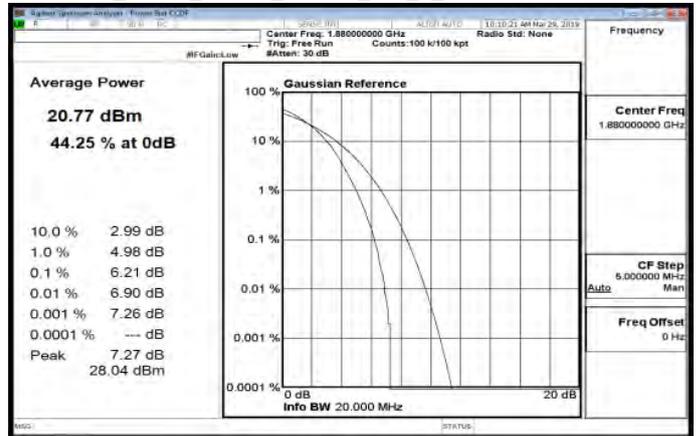
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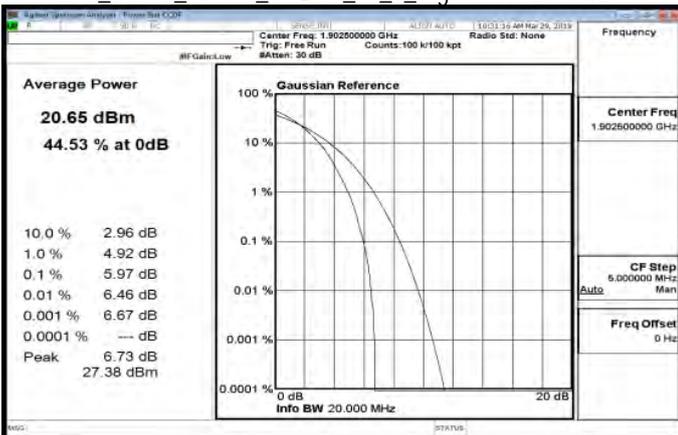
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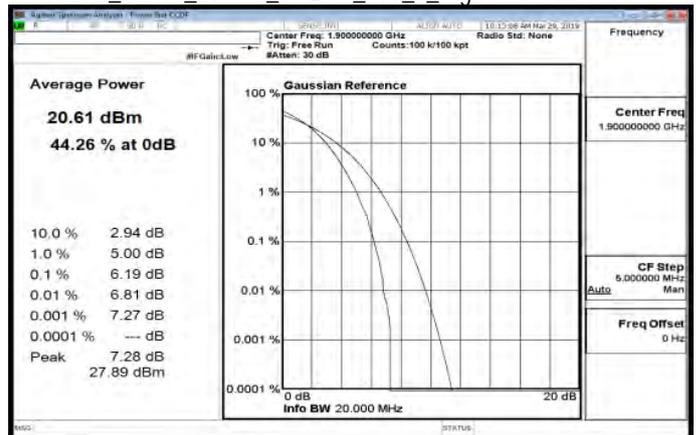
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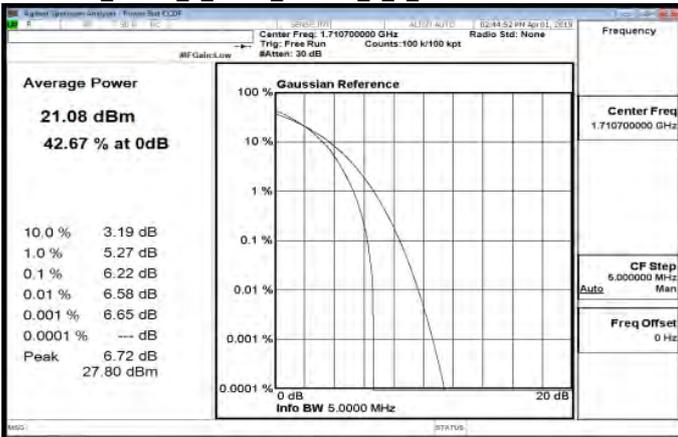
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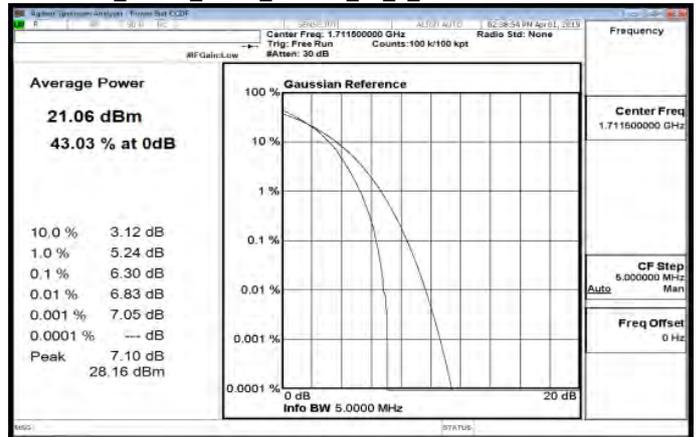
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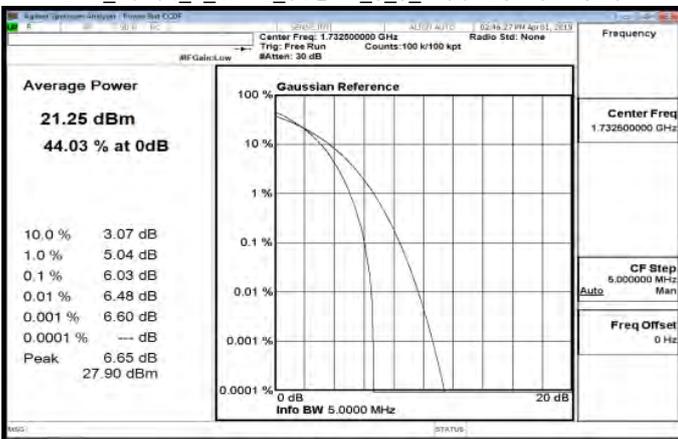
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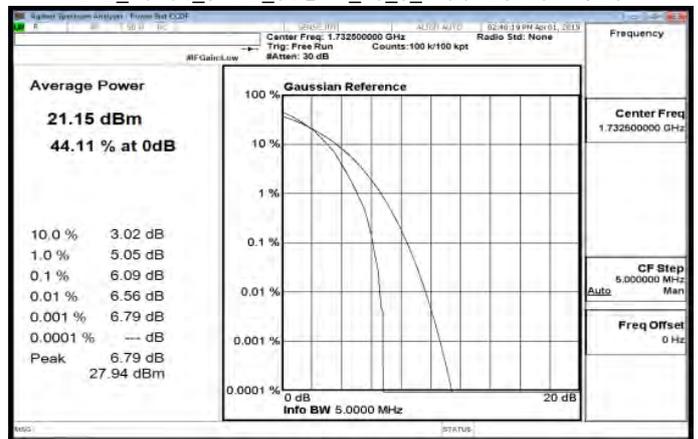
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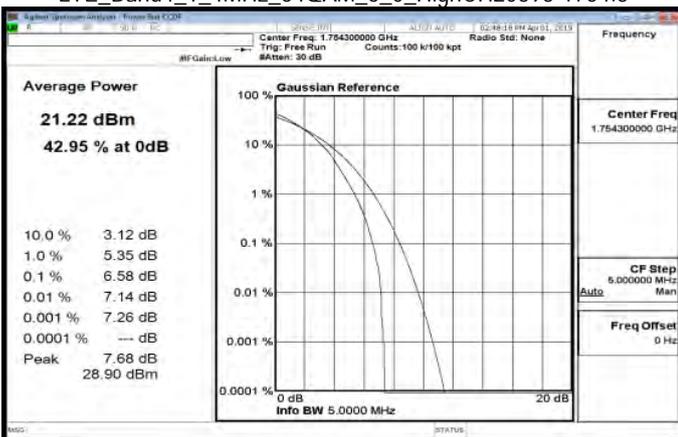
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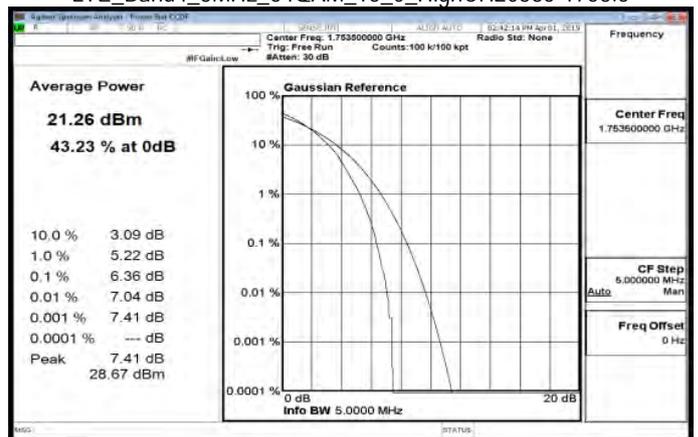
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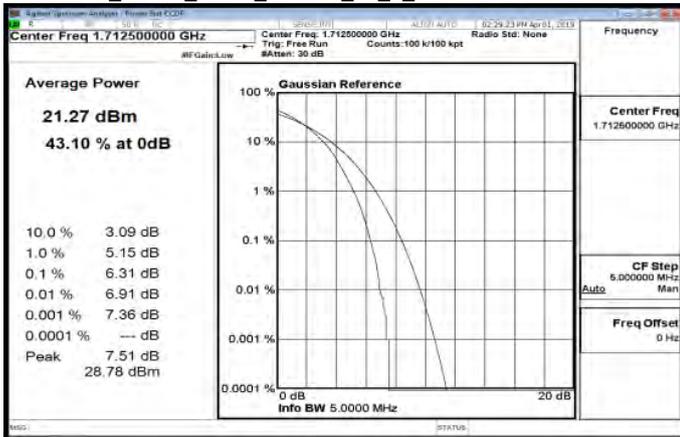
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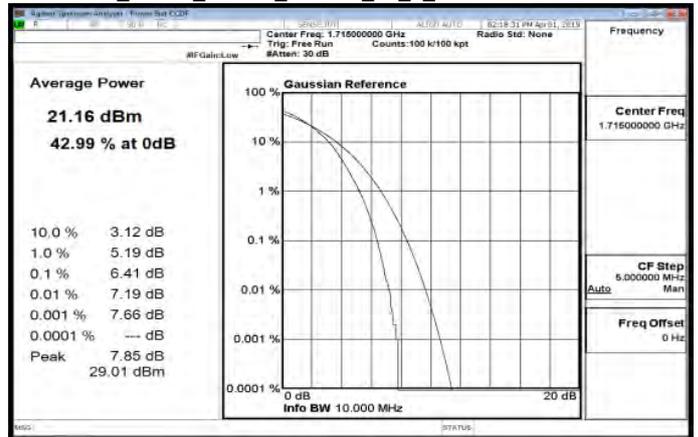
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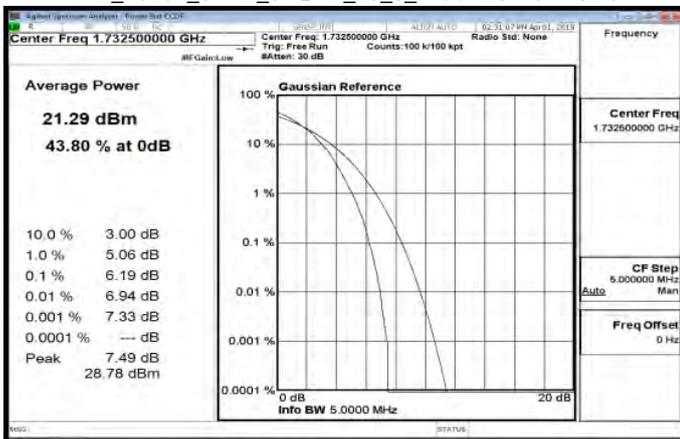
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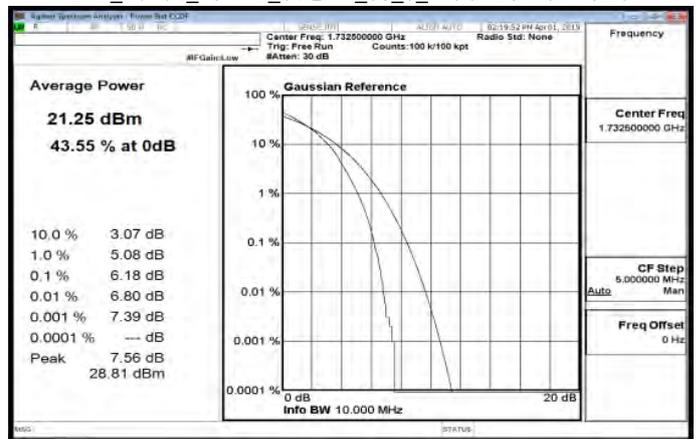
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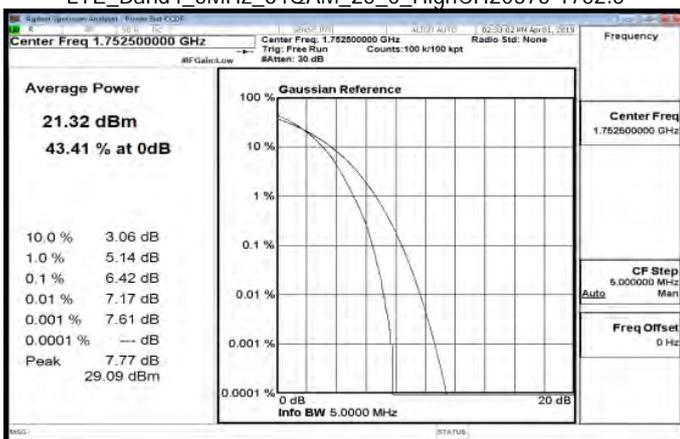
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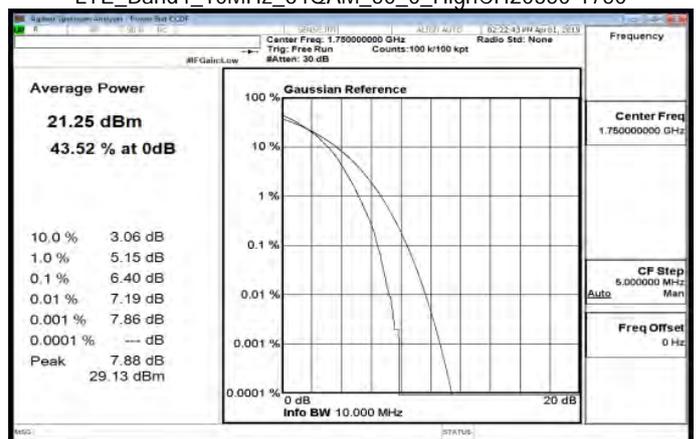
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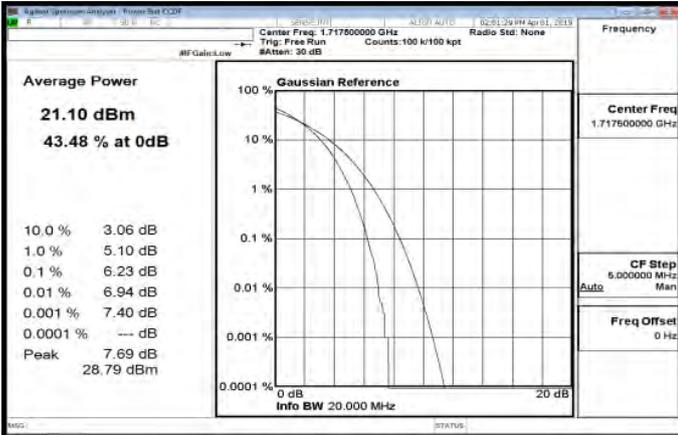
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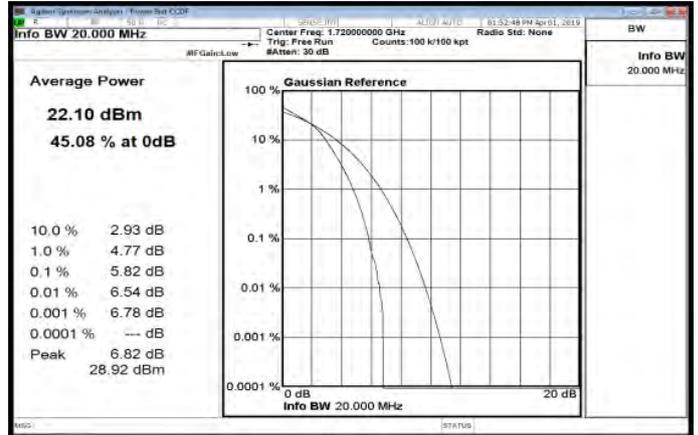
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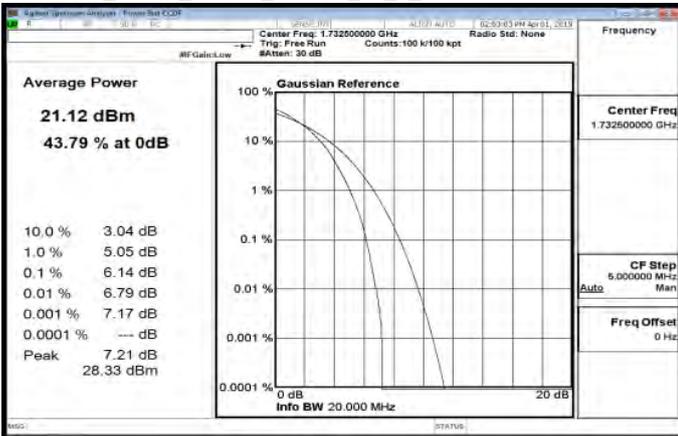
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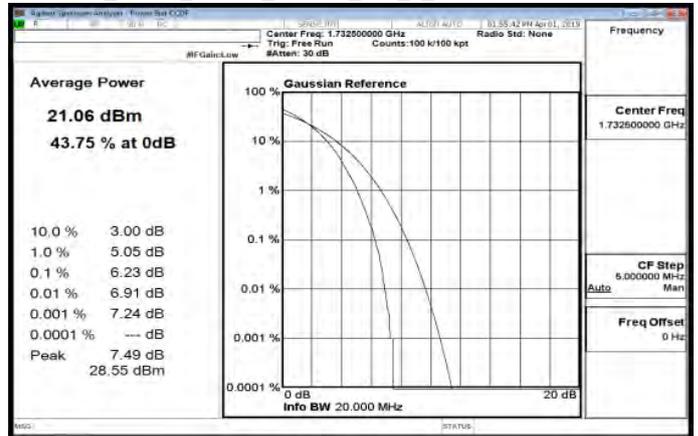
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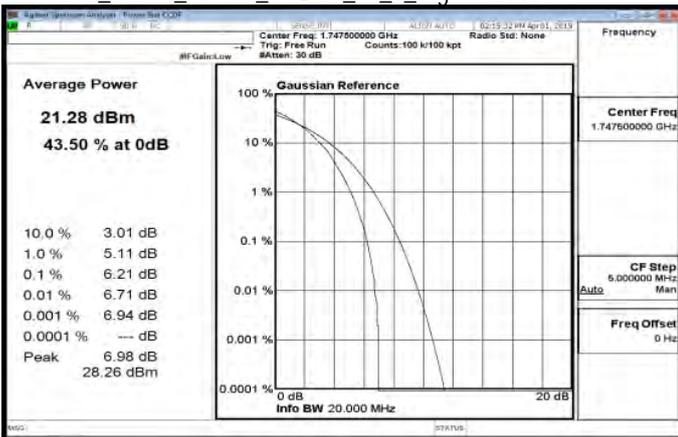
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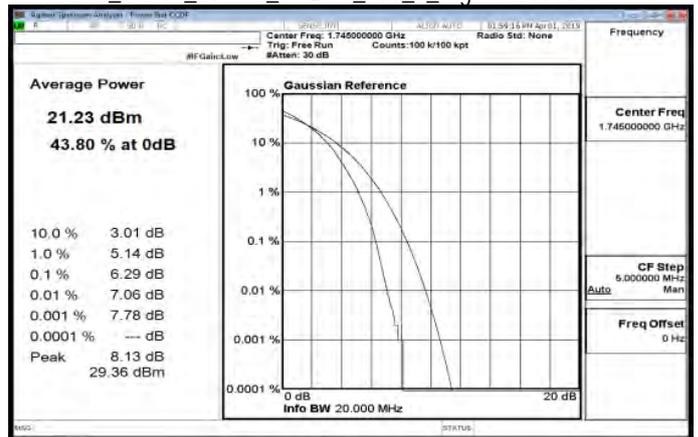
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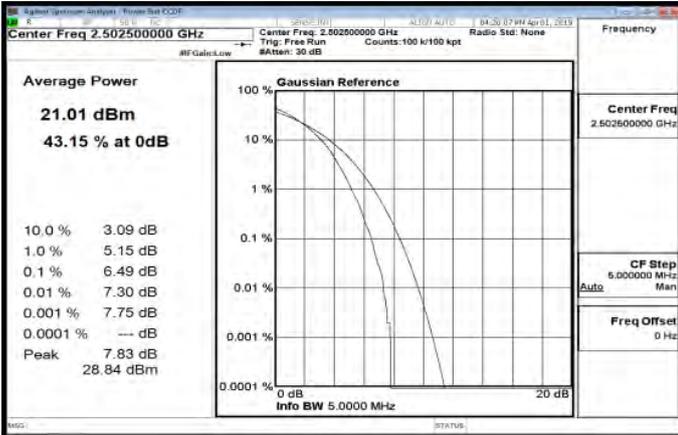
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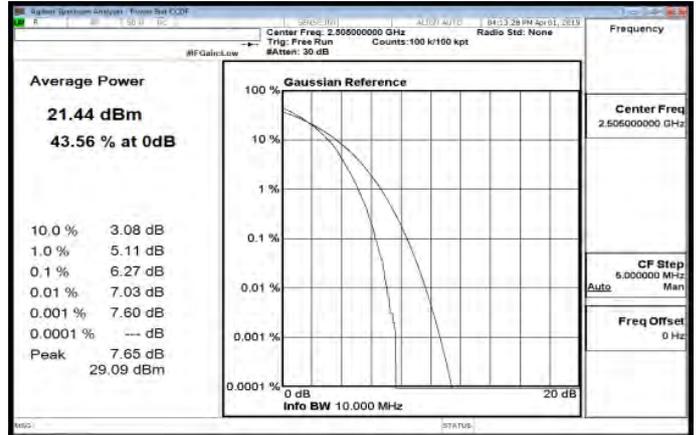
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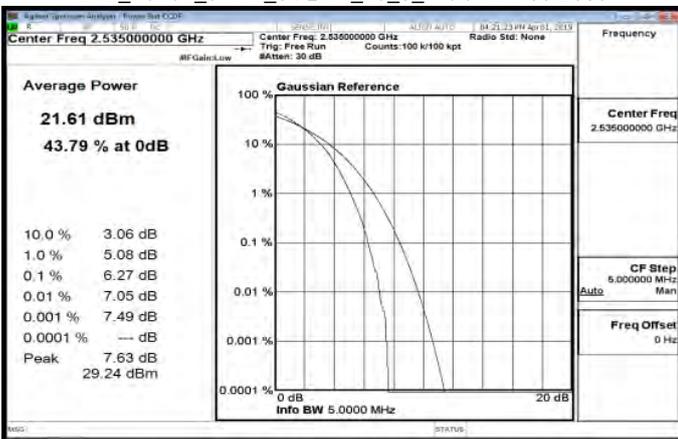
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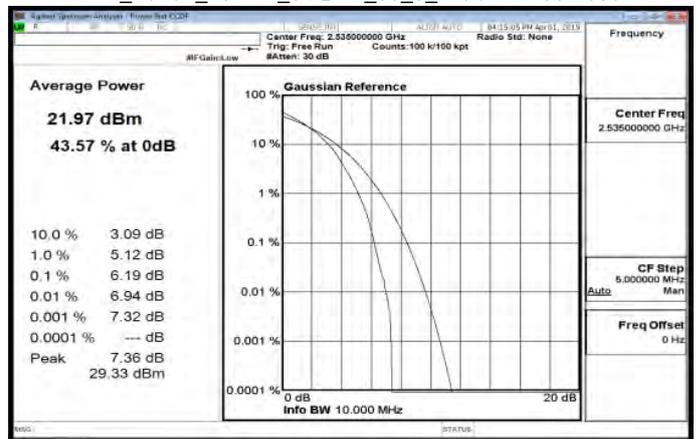
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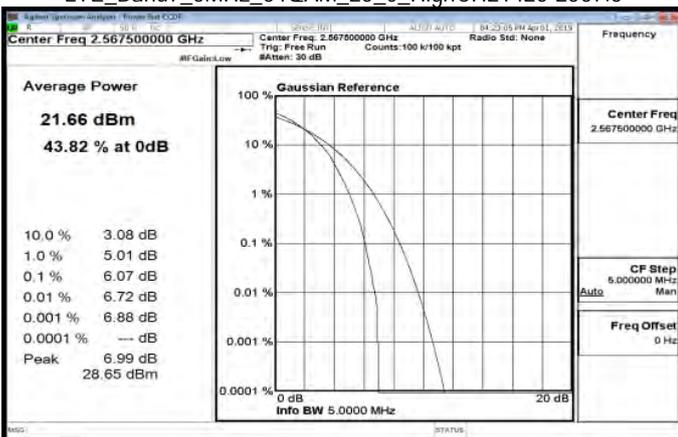
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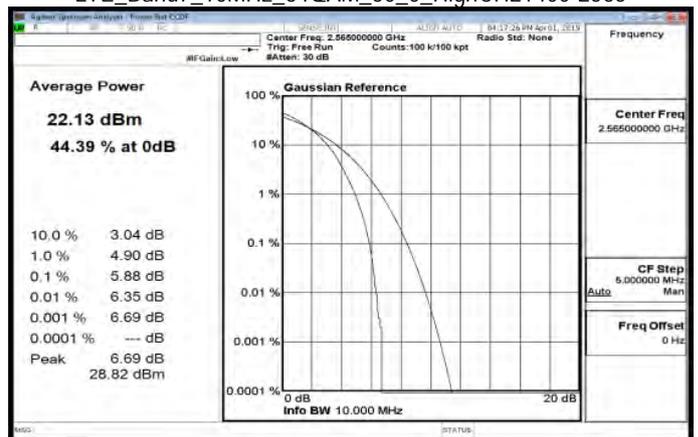
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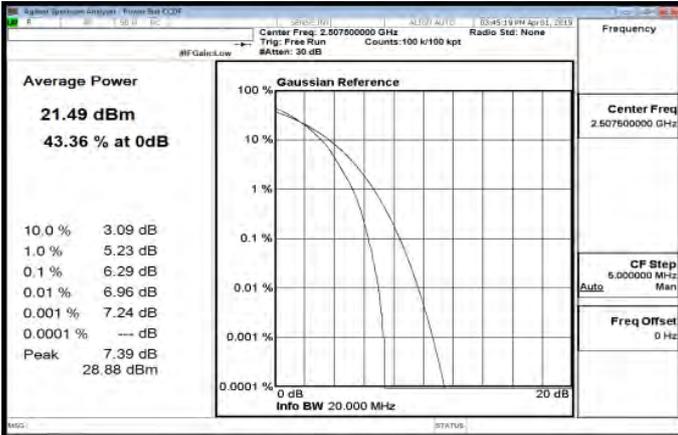
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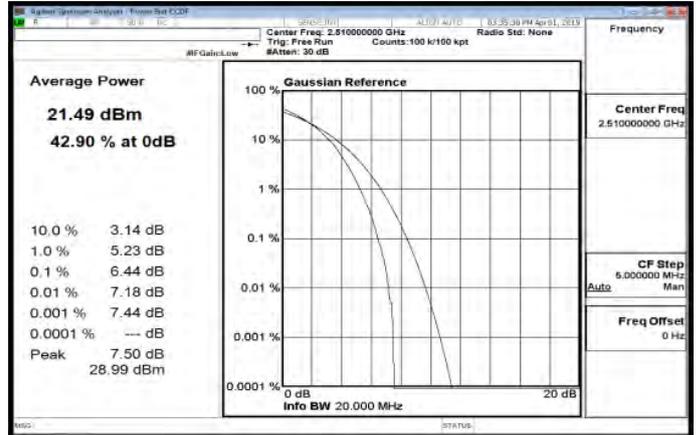
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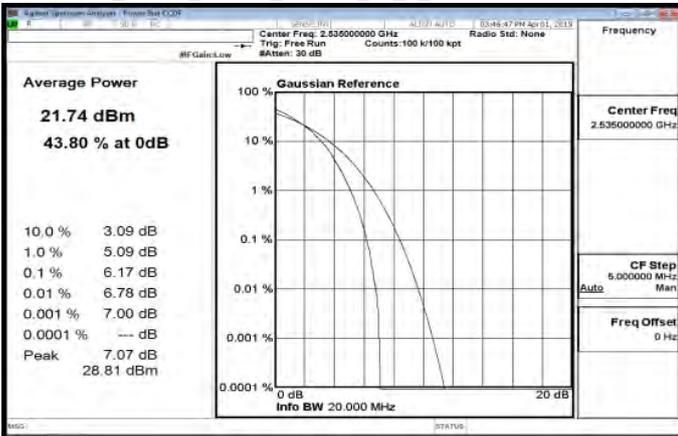
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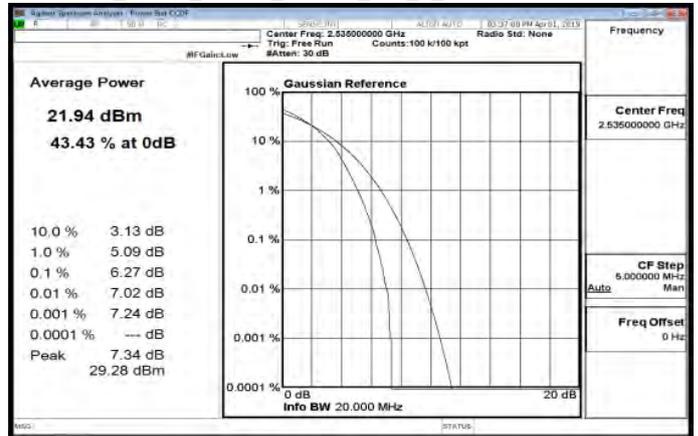
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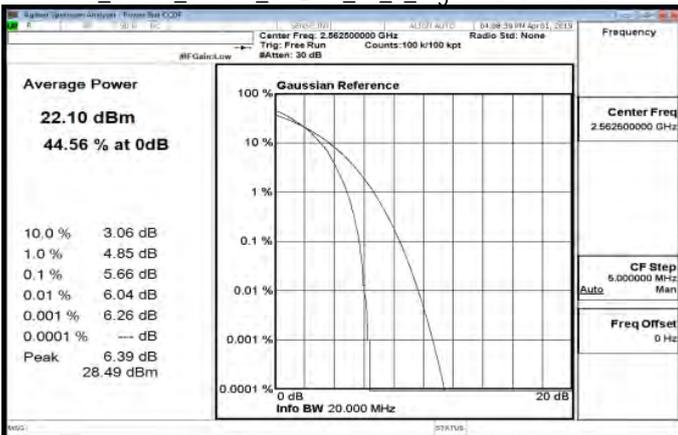
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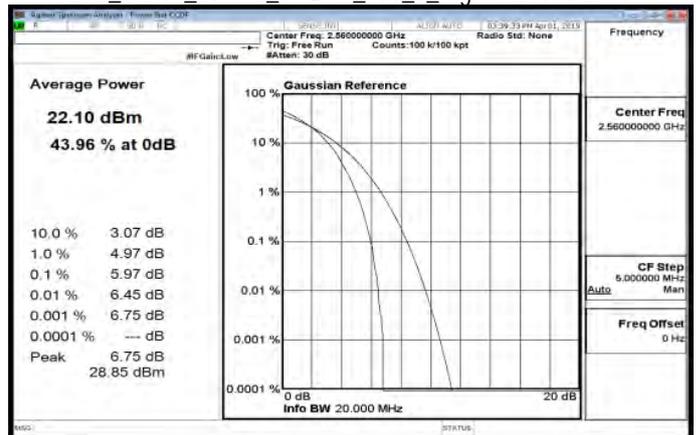
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LTE_Band7_15MHz_64QAM_75_0_HighCH21375-2562.5



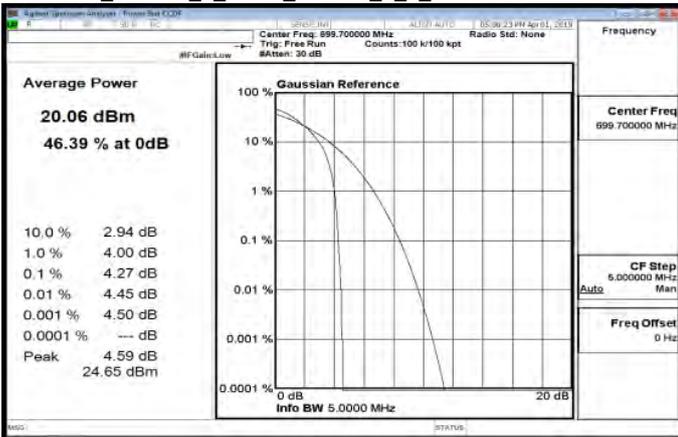
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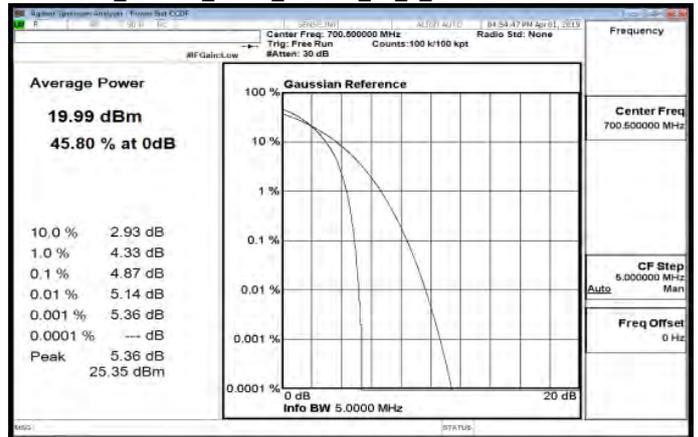
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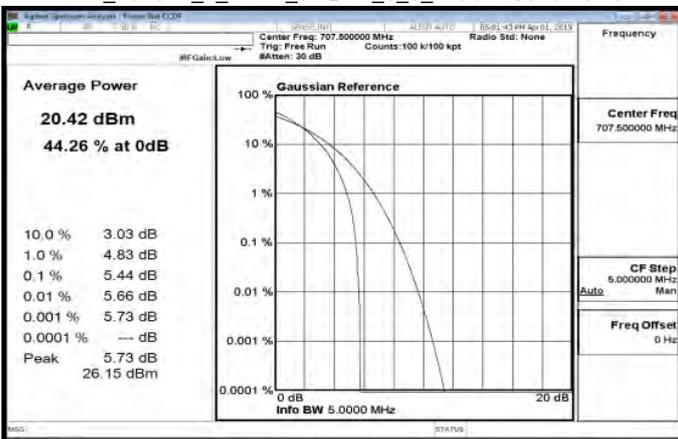
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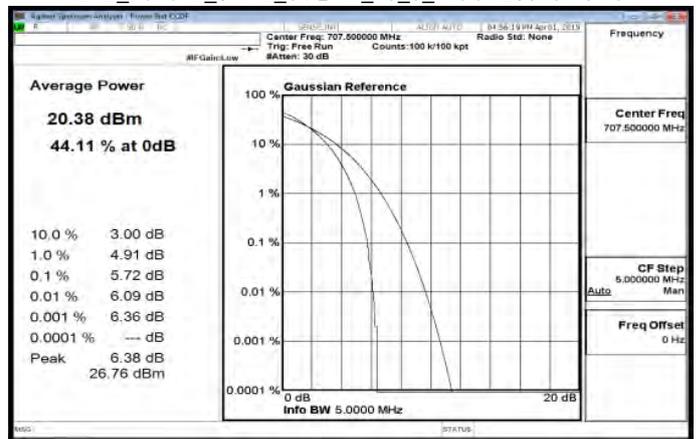
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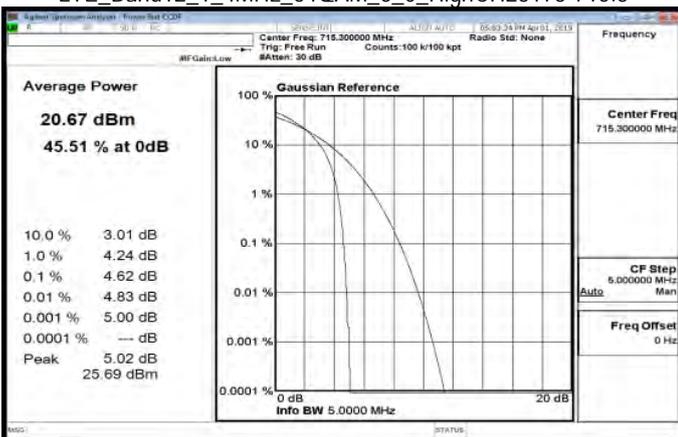
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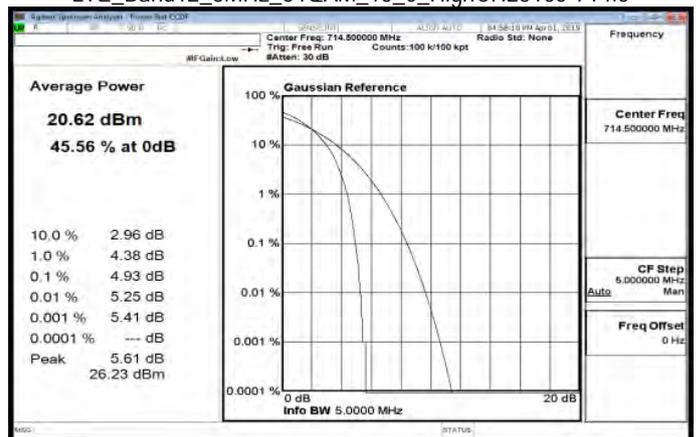
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LTE_Band12_1_4MHz_64QAM_6_0_HighCH23173-715.3



LTE_Band12_3MHz_64QAM_15_0_HighCH23165-714.5



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