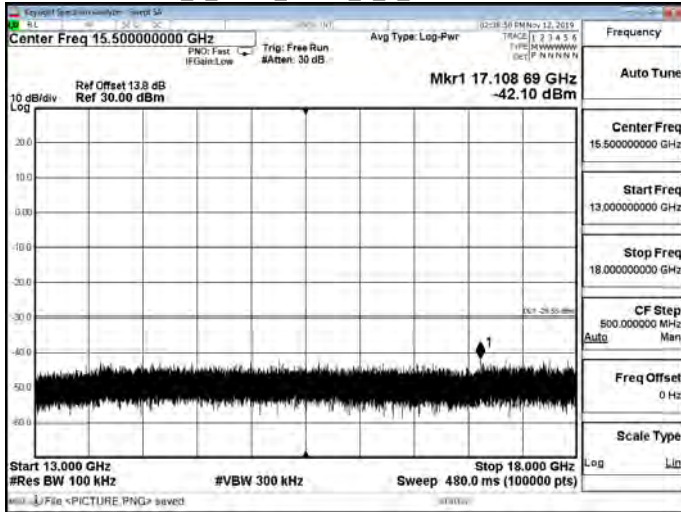
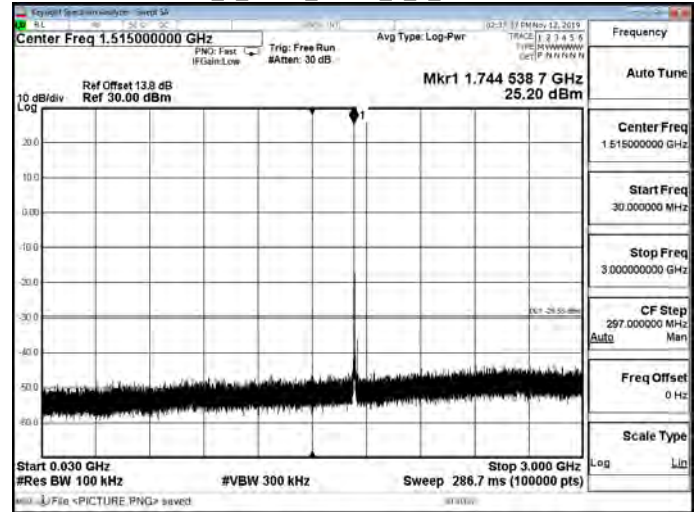


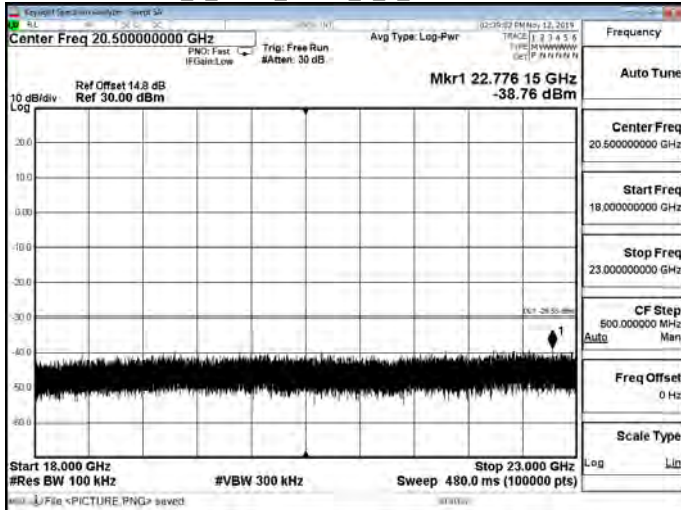
Band66\_1\_4MHz\_QPSK\_1\_0\_13000-18000 MHz



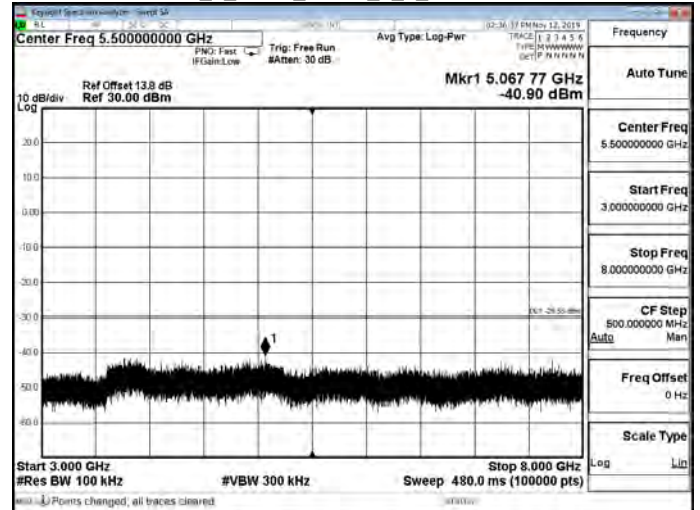
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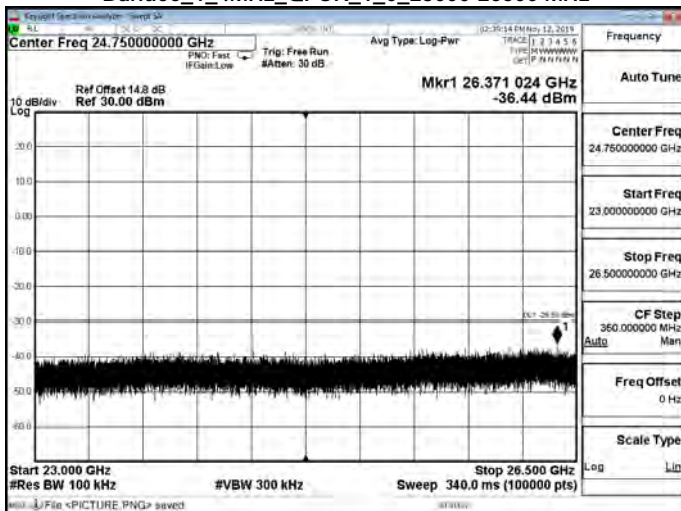
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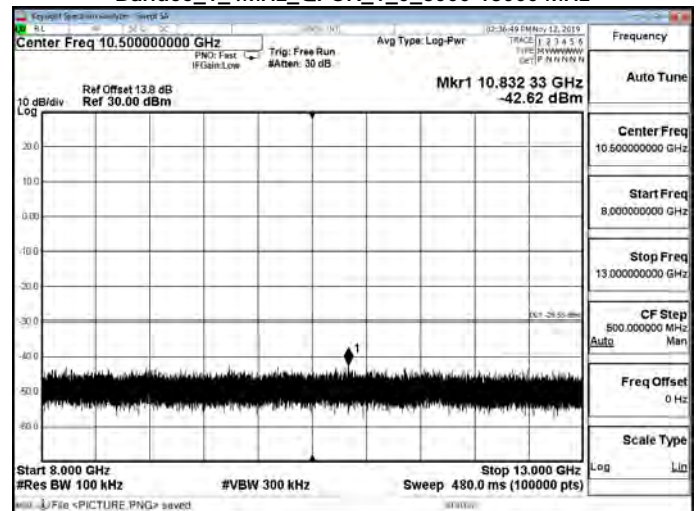
Band66\_1\_4MHz\_QPSK\_1\_0\_3000-8000 MHz



Band66\_1\_4MHz\_QPSK\_1\_0\_23000-26500 MHz



Band66\_1\_4MHz\_QPSK\_1\_0\_8000-13000 MHz

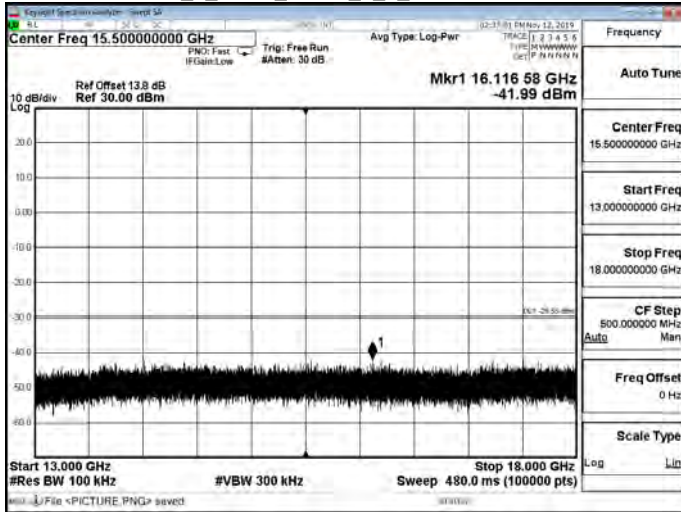


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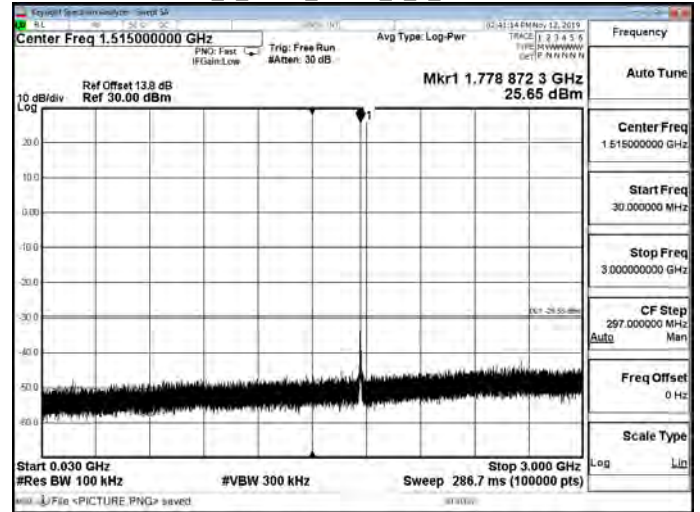
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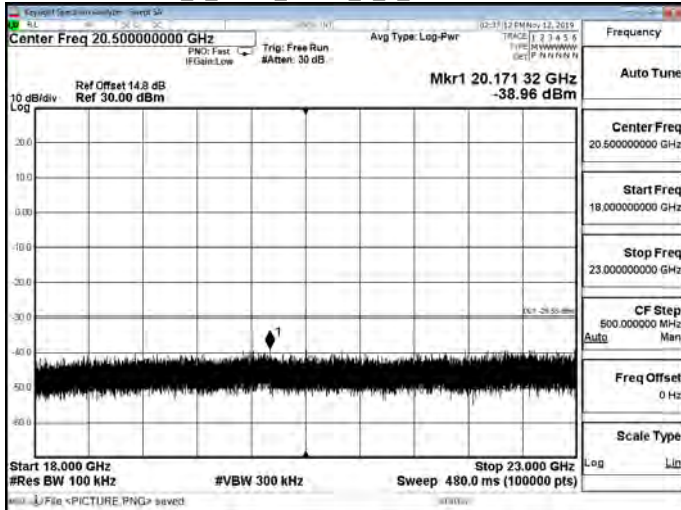
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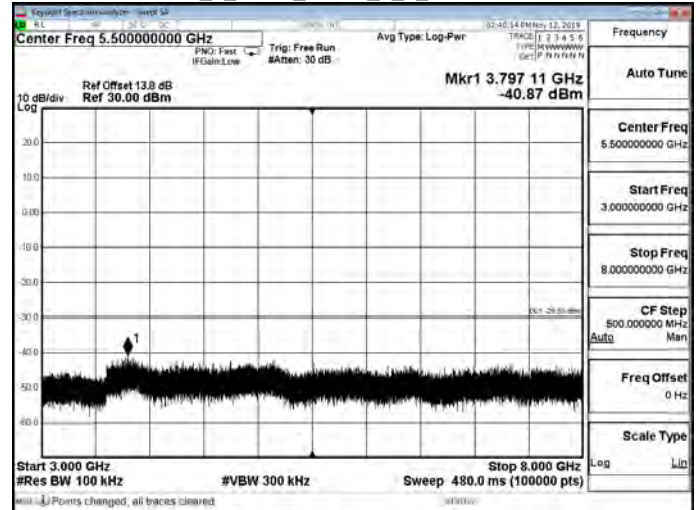
Band66\_1\_4MHz\_QPSK\_1\_0\_30-3000 MHz



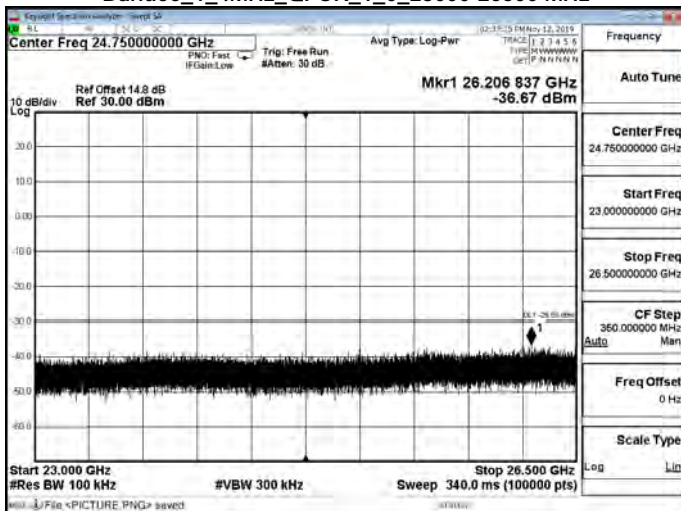
Band66\_1\_4MHz\_QPSK\_1\_0\_18000-23000 MHz



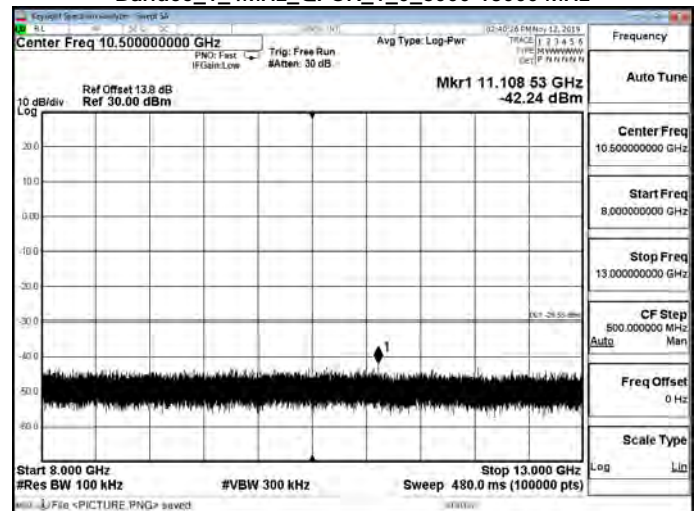
Band66\_1\_4MHz\_QPSK\_1\_0\_3000-8000 MHz



Band66\_1\_4MHz\_QPSK\_1\_0\_23000-26500 MHz



Band66\_1\_4MHz\_QPSK\_1\_0\_8000-13000 MHz



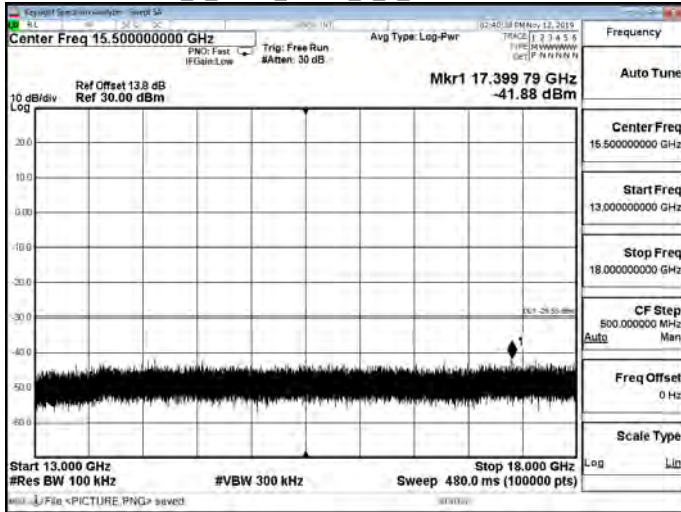
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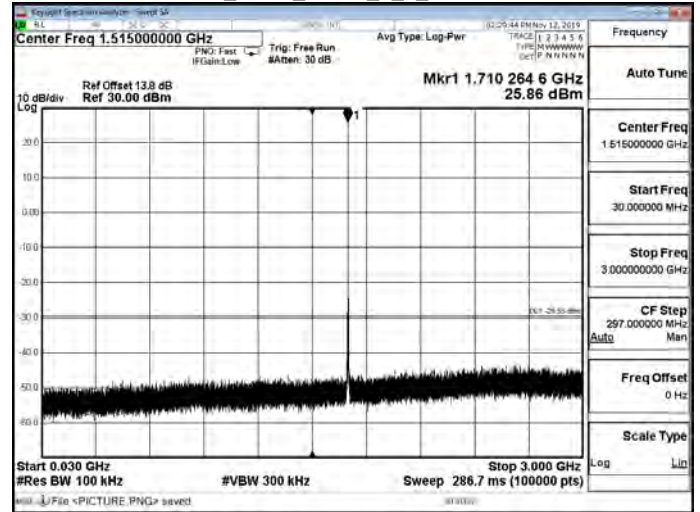
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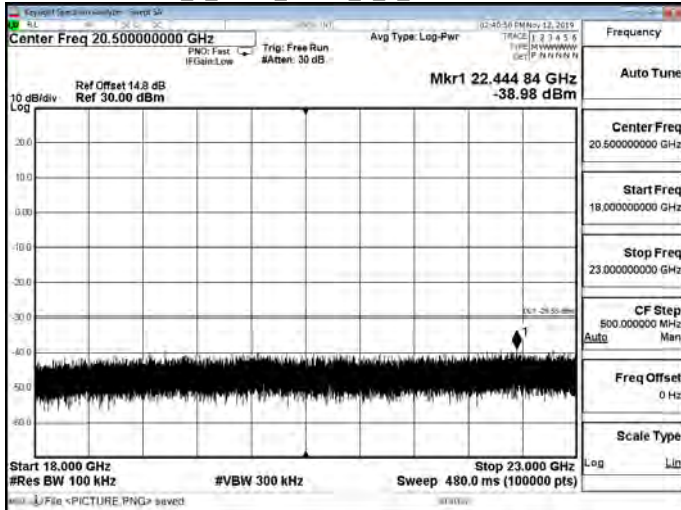
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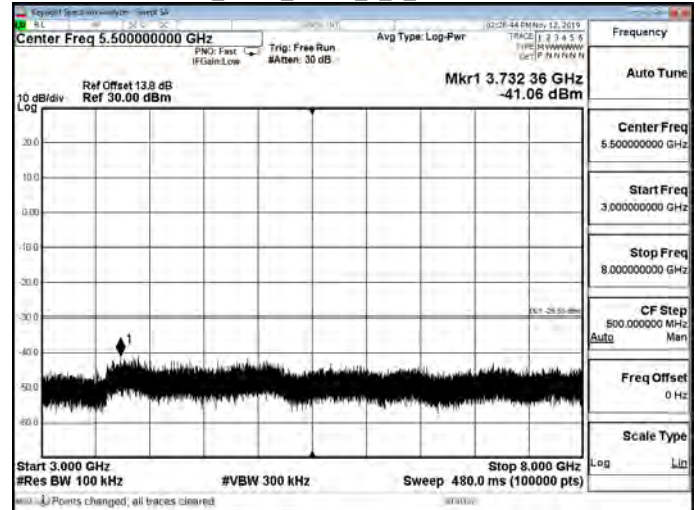
Band66\_3MHz\_QPSK\_1\_0\_30-3000 MHz



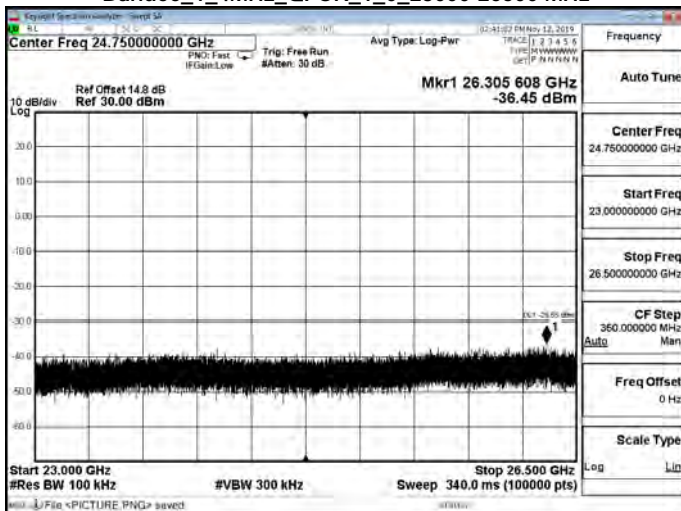
Band66\_1\_4MHz\_QPSK\_1\_0\_18000-23000 MHz



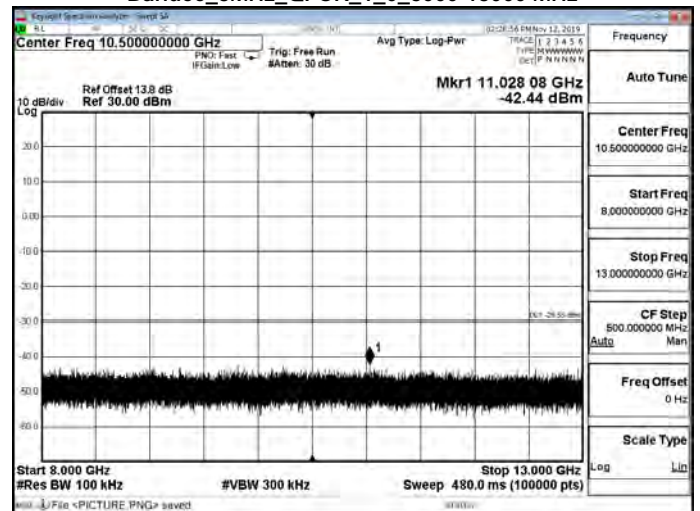
Band66\_3MHz\_QPSK\_1\_0\_3000-8000 MHz



Band66\_1\_4MHz\_QPSK\_1\_0\_23000-26500 MHz



Band66\_3MHz\_QPSK\_1\_0\_8000-13000 MHz

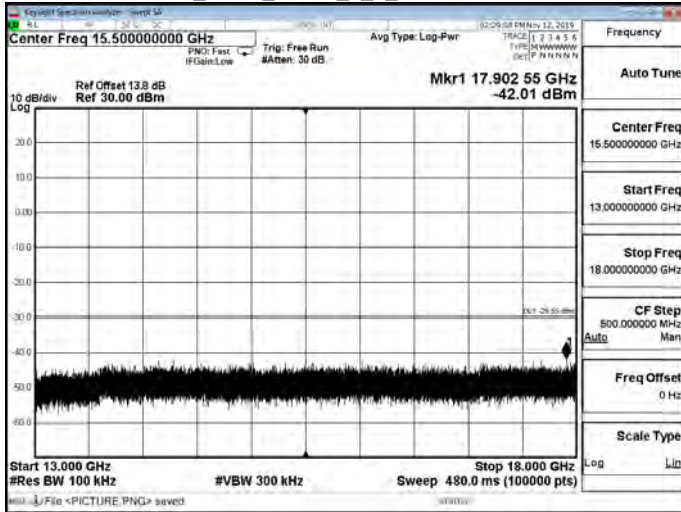


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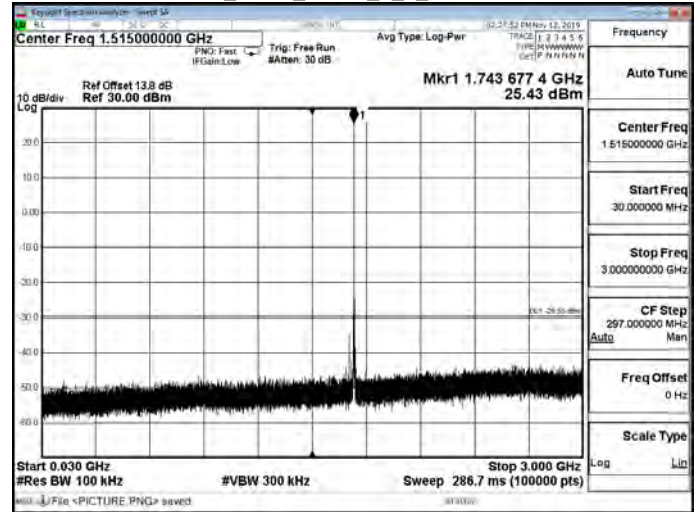
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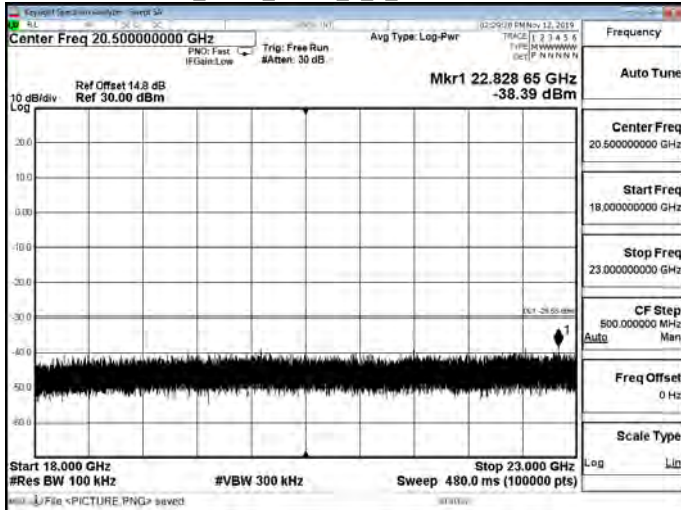
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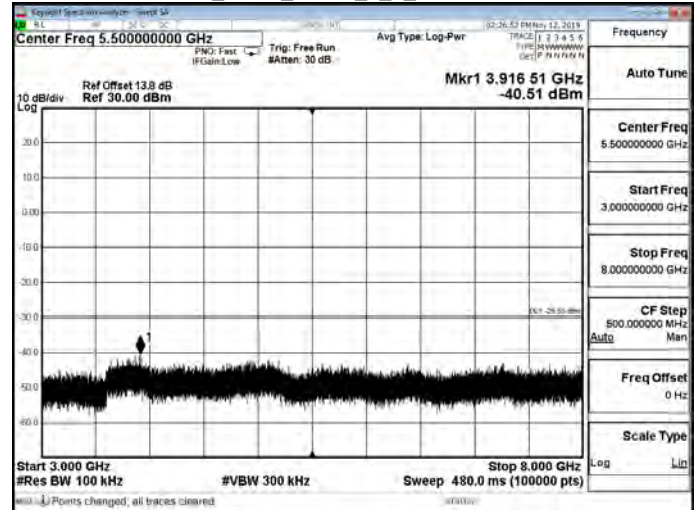
Band66\_3MHz\_QPSK\_1\_0\_30-3000 MHz



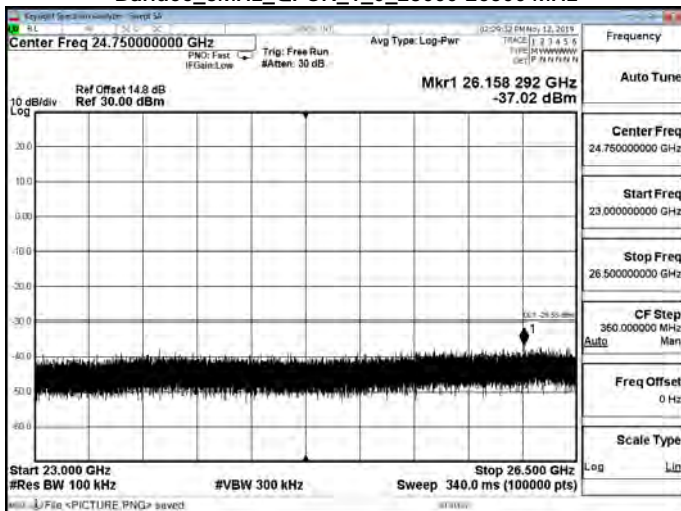
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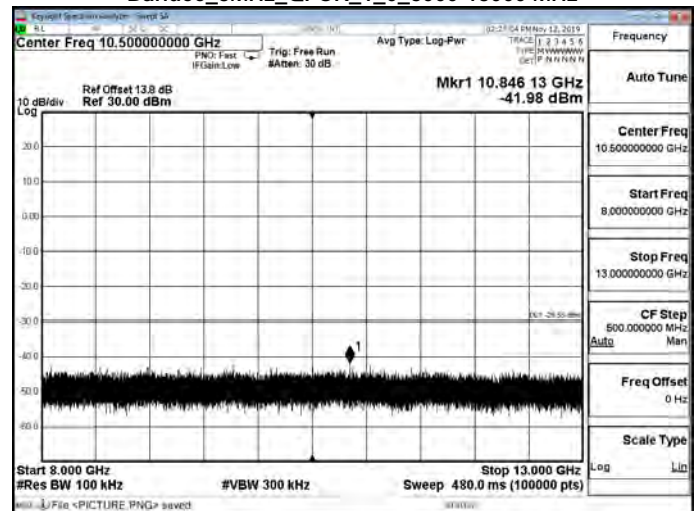
Band66\_3MHz\_QPSK\_1\_0\_3000-8000 MHz



Band66\_3MHz\_QPSK\_1\_0\_23000-26500 MHz



Band66\_3MHz\_QPSK\_1\_0\_8000-13000 MHz



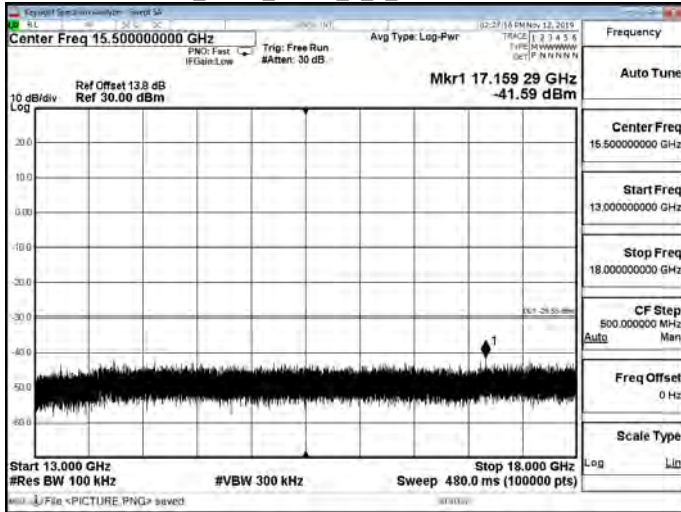
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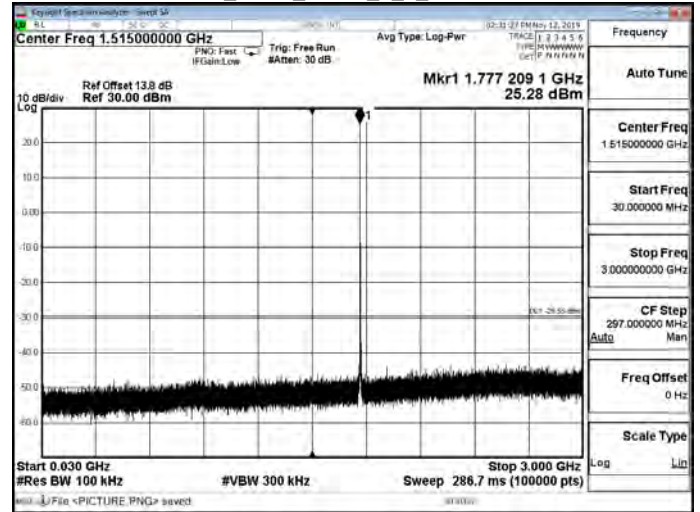
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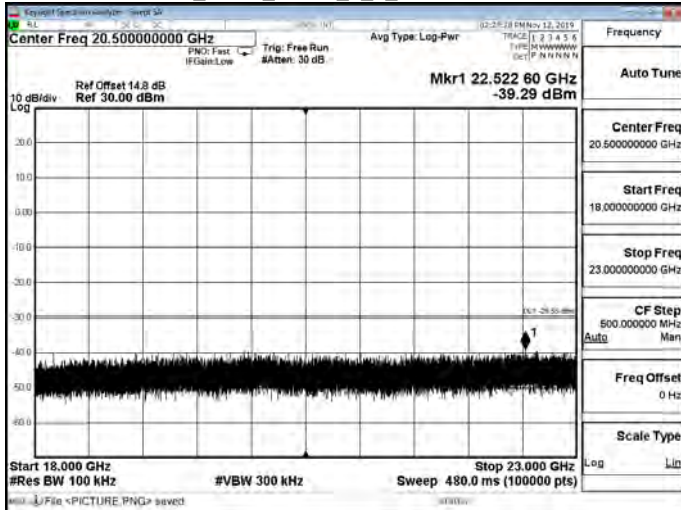
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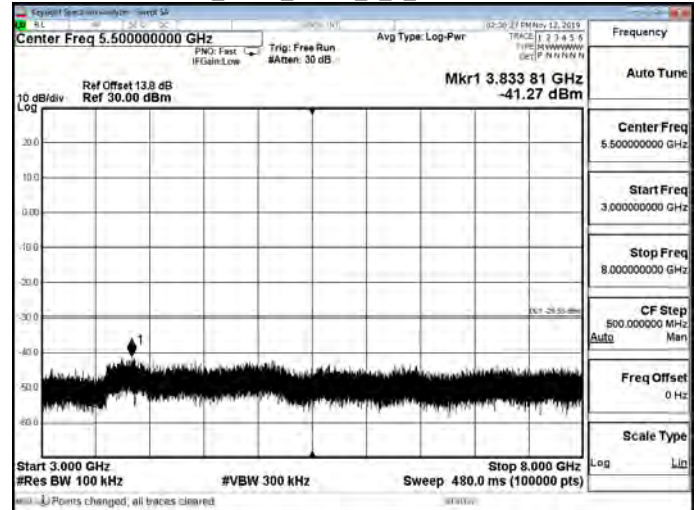
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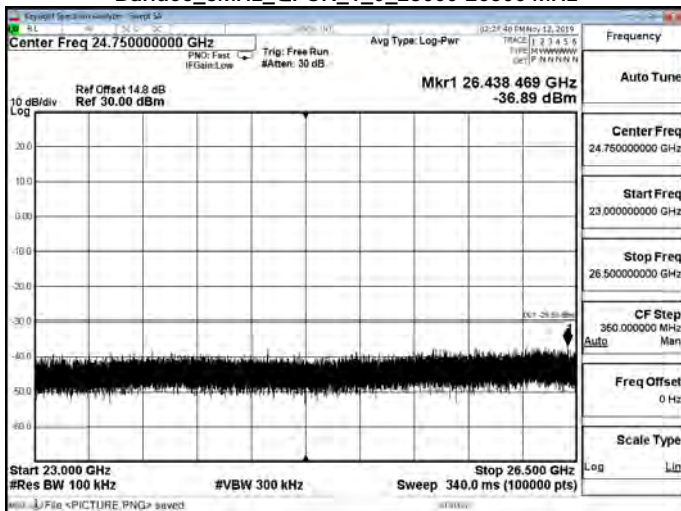
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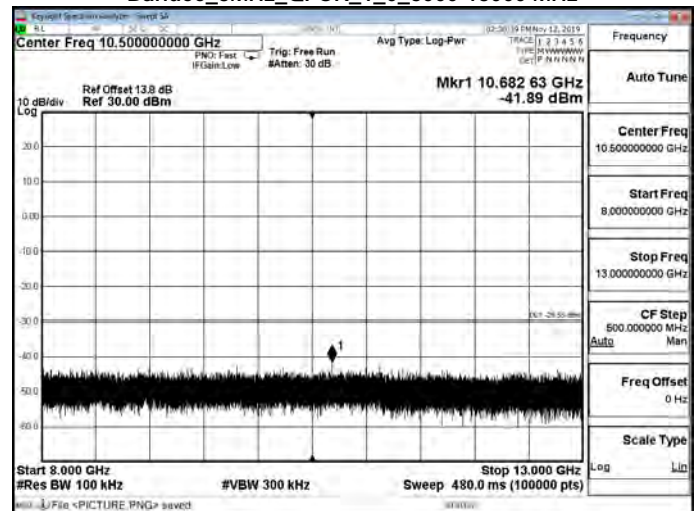
Band66\_3MHz\_QPSK\_1\_0\_3000-8000 MHz



Band66\_3MHz\_QPSK\_1\_0\_23000-26500 MHz



Band66\_3MHz\_QPSK\_1\_0\_8000-13000 MHz

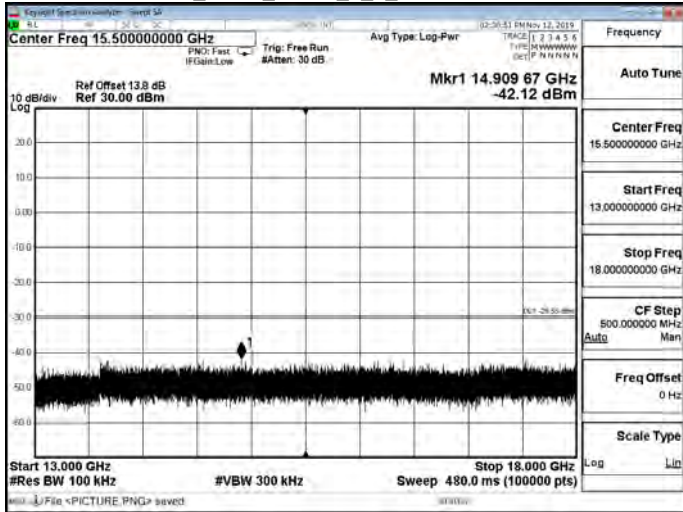


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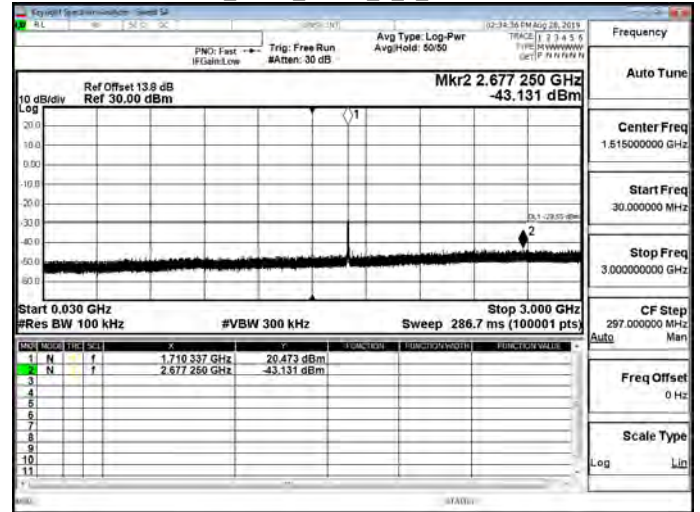
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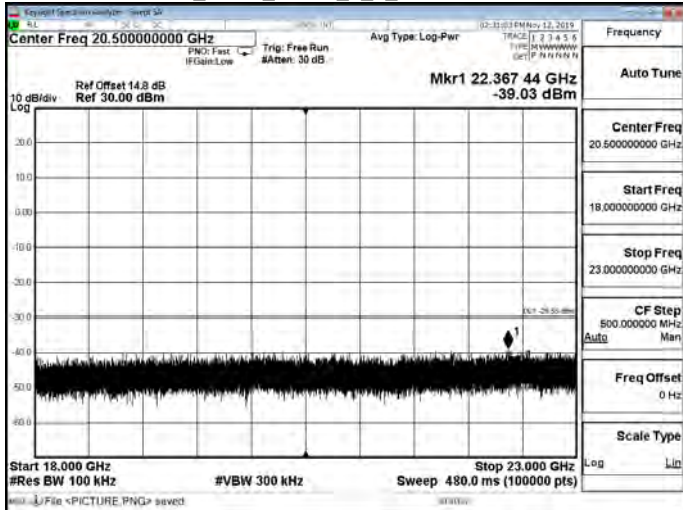
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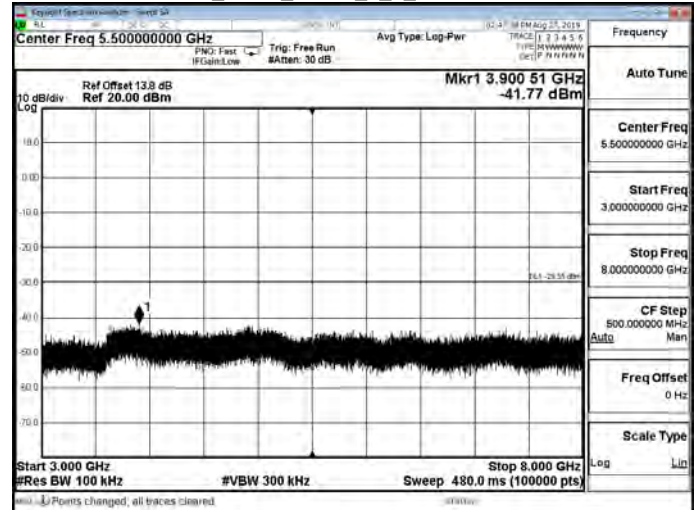
Band66\_5MHz\_QPSK\_1\_0\_30-3000 MHz



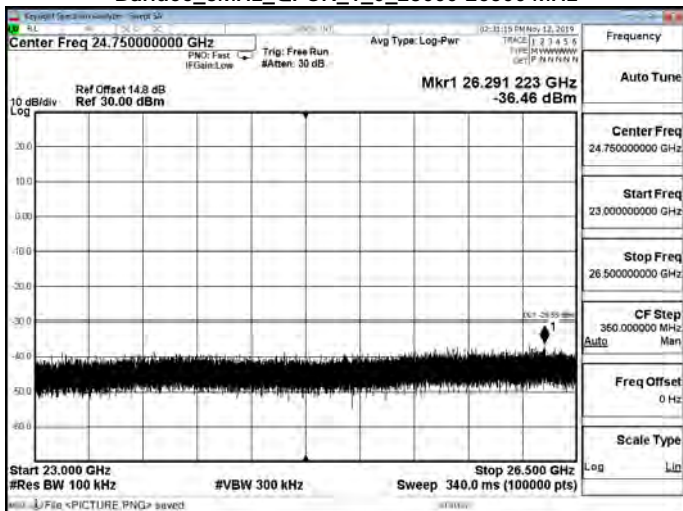
Band66\_3MHz\_QPSK\_1\_0\_18000-23000 MHz



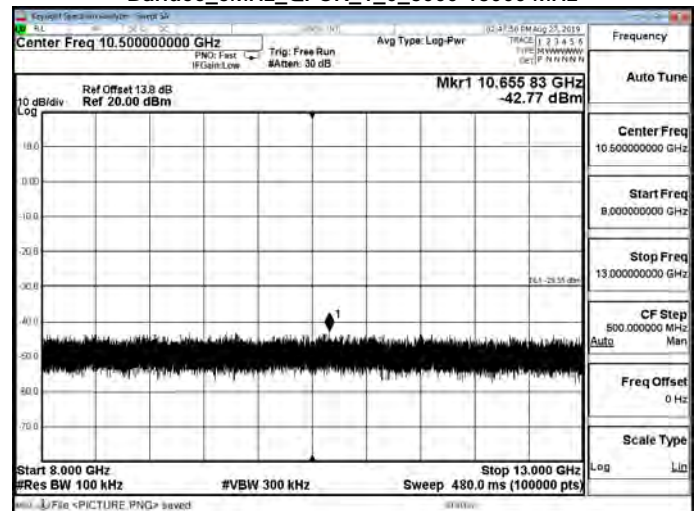
Band66\_5MHz\_QPSK\_1\_0\_3000-8000 MHz



Band66\_3MHz\_QPSK\_1\_0\_23000-26500 MHz



Band66\_5MHz\_QPSK\_1\_0\_8000-13000 MHz



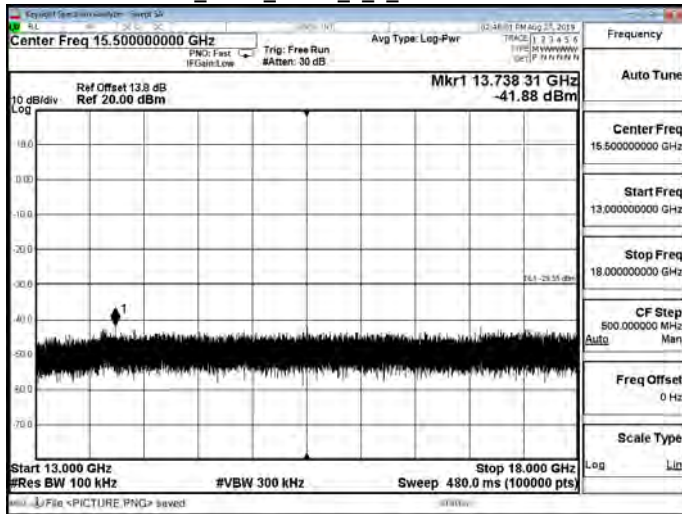
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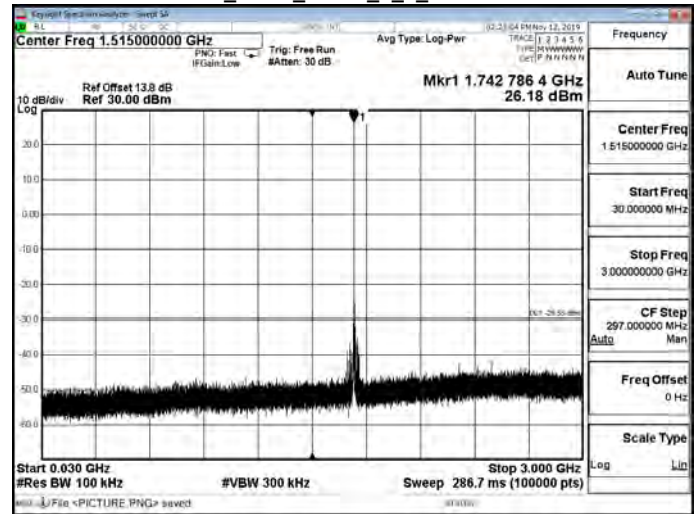
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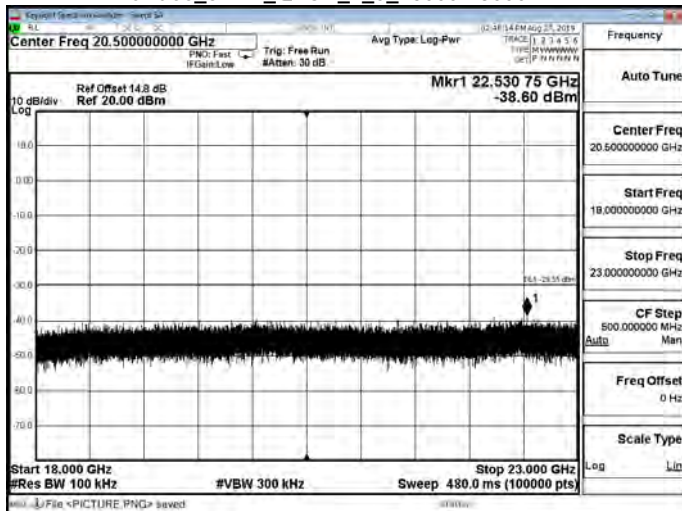
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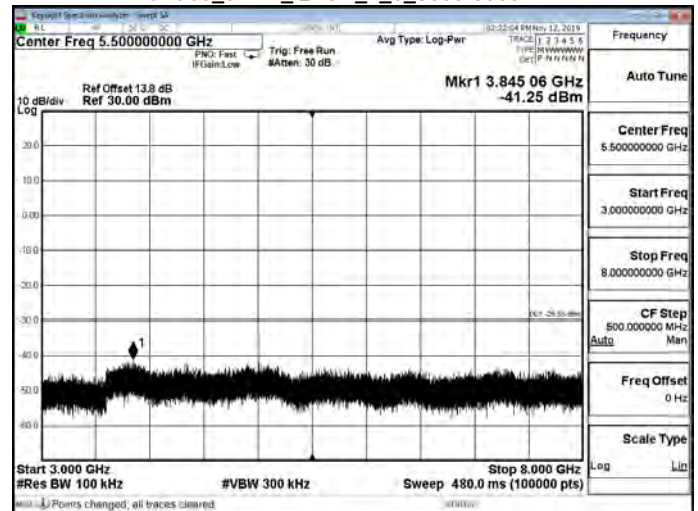
Band66\_5MHz\_QPSK\_1\_0\_30-3000 MHz



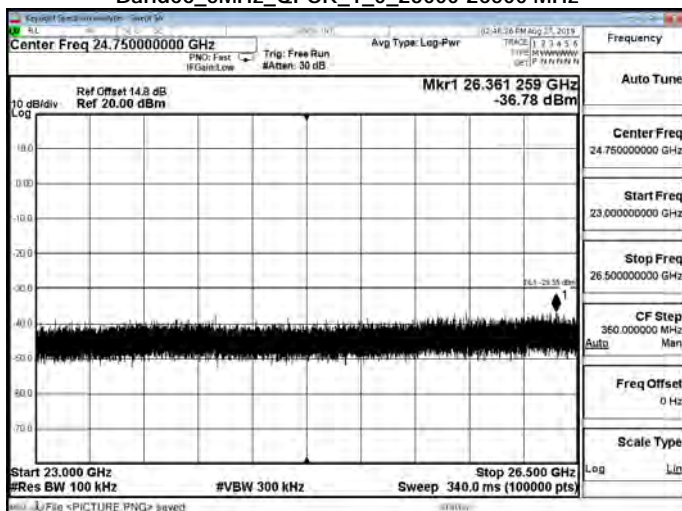
Band66\_5MHz\_QPSK\_1\_0\_18000-23000 MHz



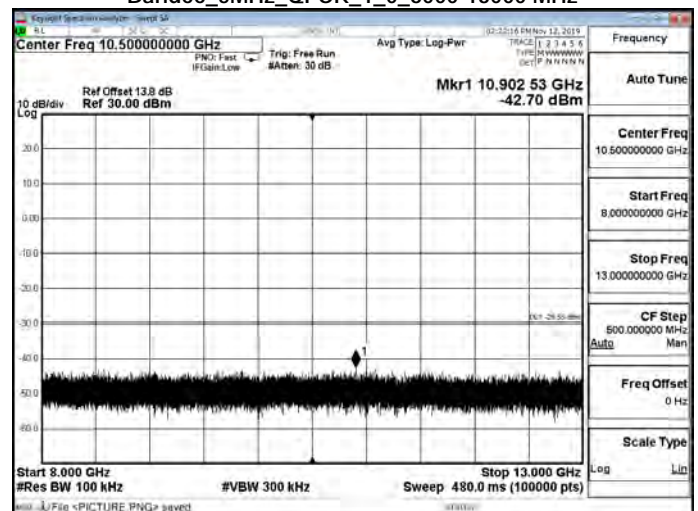
Band66\_5MHz\_QPSK\_1\_0\_3000-8000 MHz



Band66\_5MHz\_QPSK\_1\_0\_23000-26500 MHz



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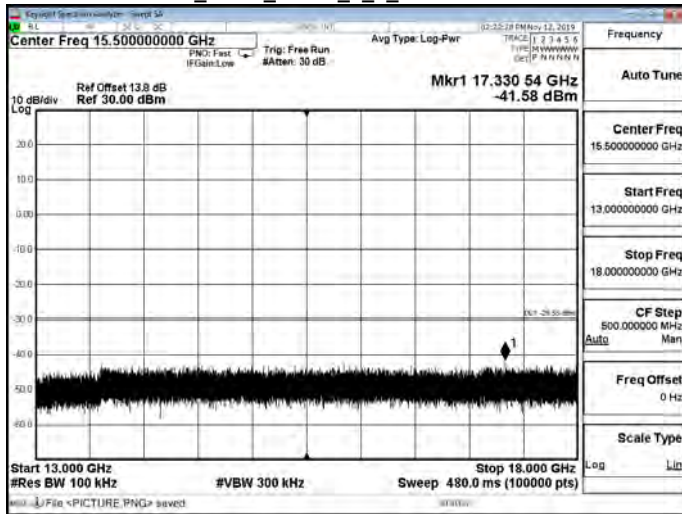


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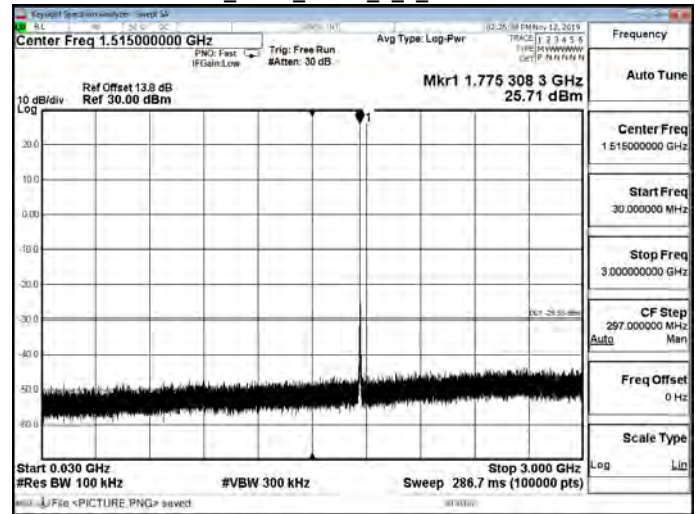
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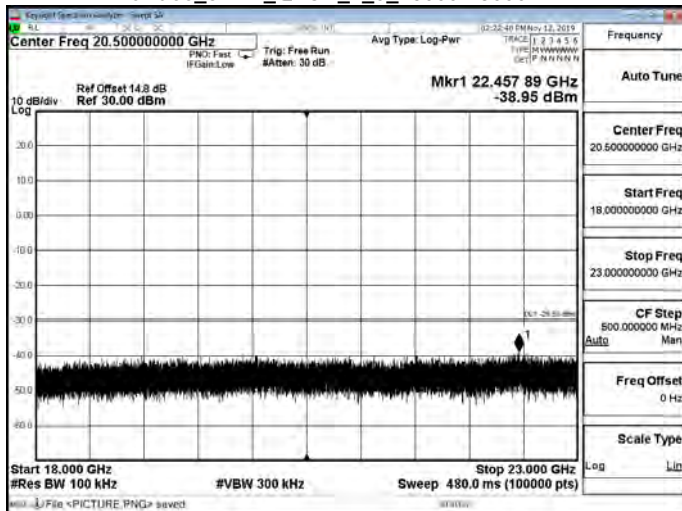
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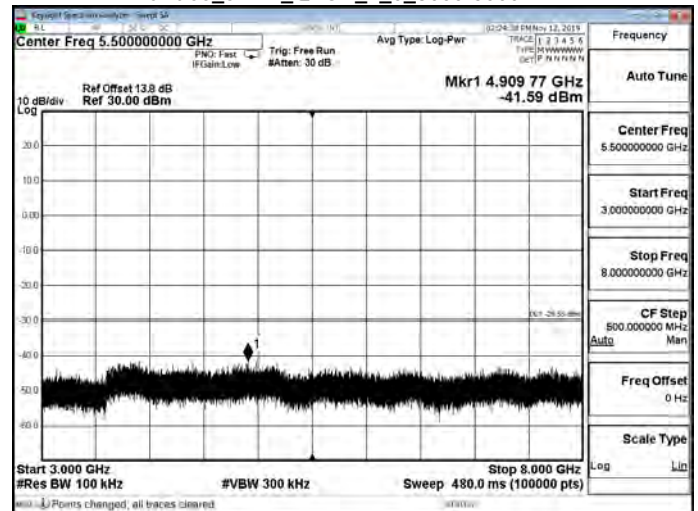
Band66\_5MHz\_QPSK\_1\_0\_30-3000 MHz



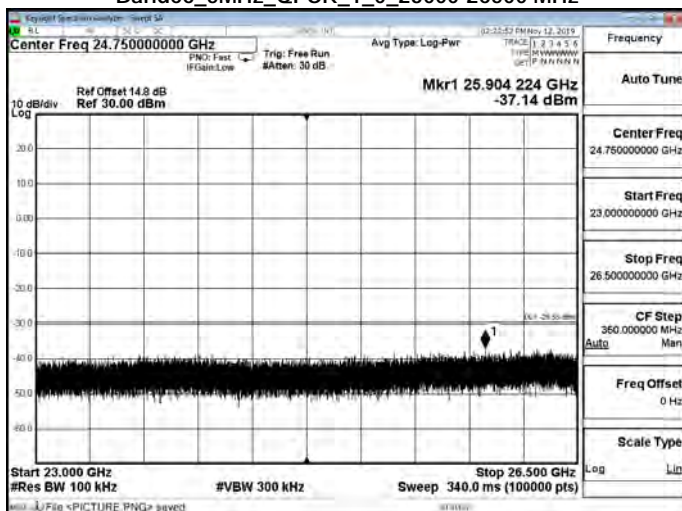
Band66\_5MHz\_QPSK\_1\_0\_18000-23000 MHz



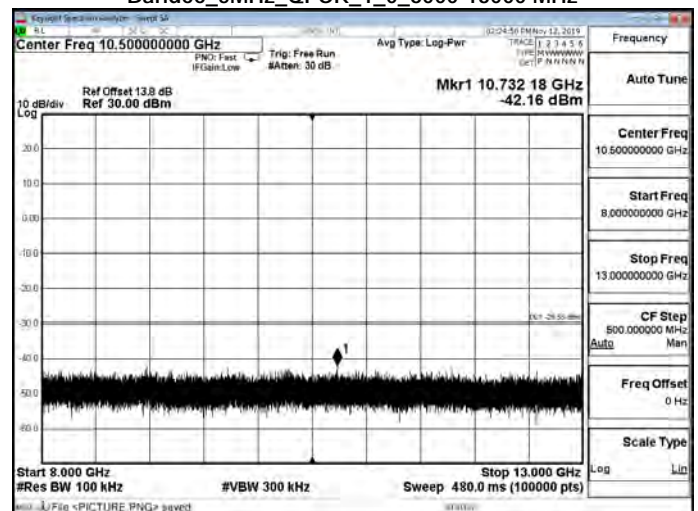
Band66\_5MHz\_QPSK\_1\_0\_3000-8000 MHz



Band66\_5MHz\_QPSK\_1\_0\_23000-26500 MHz



Band66\_5MHz\_QPSK\_1\_0\_8000-13000 MHz

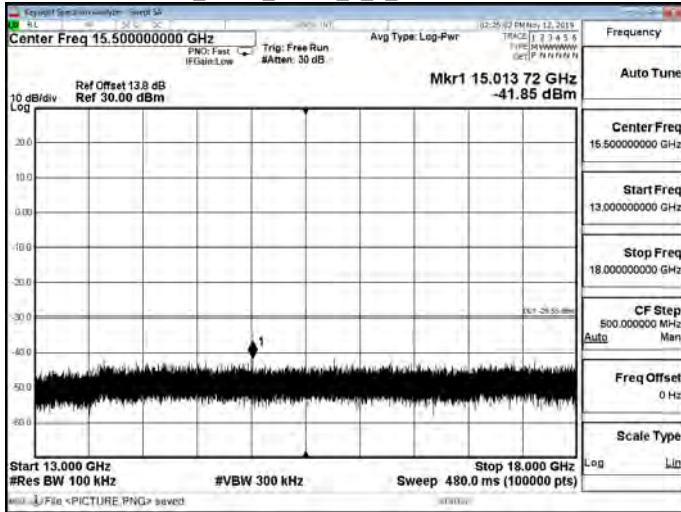


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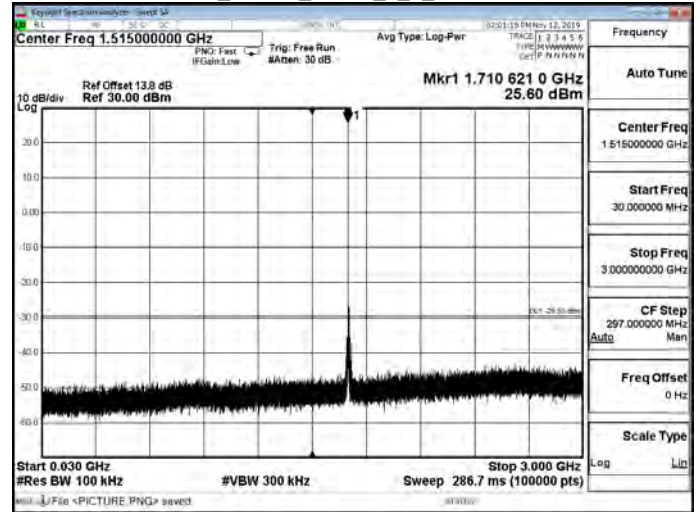
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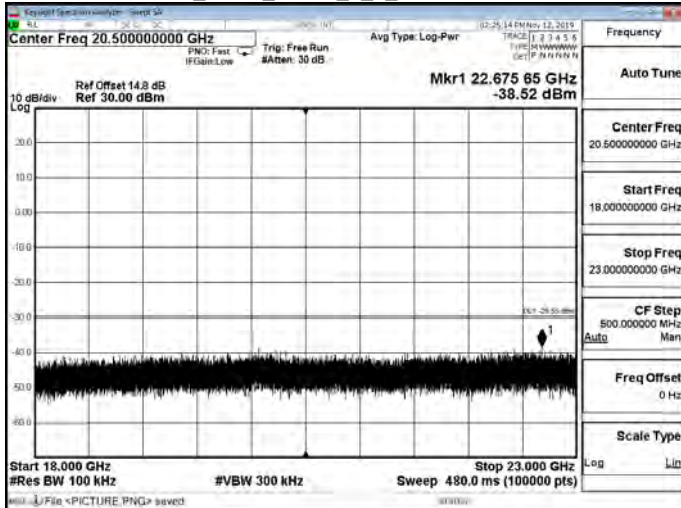
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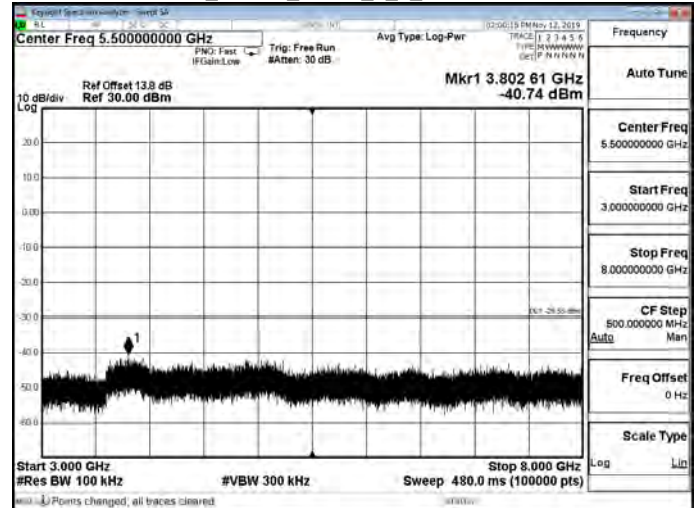
Band66\_10MHz\_QPSK\_1\_0\_30-3000 MHz



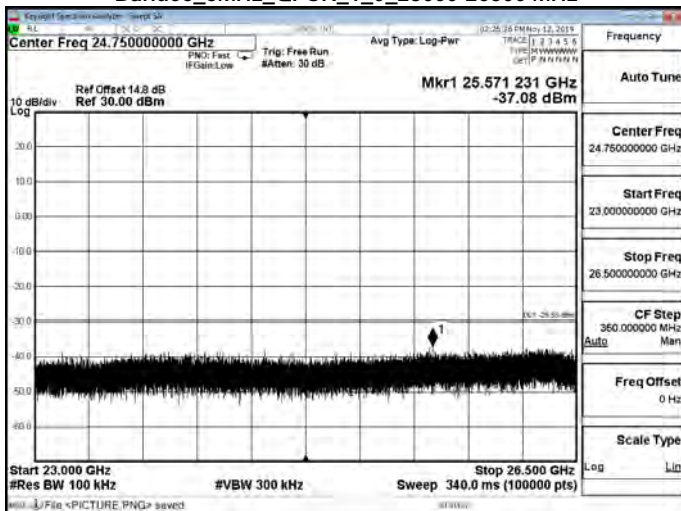
Band66\_5MHz\_QPSK\_1\_0\_18000-23000 MHz



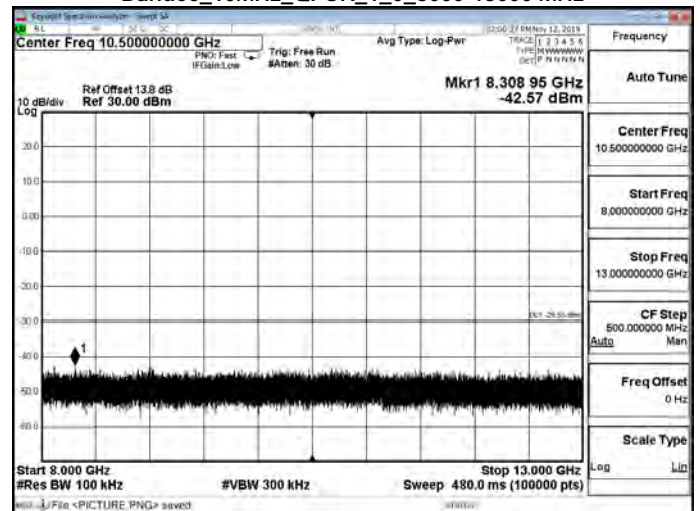
Band66\_10MHz\_QPSK\_1\_0\_3000-8000 MHz



Band66\_5MHz\_QPSK\_1\_0\_23000-26500 MHz



Band66\_10MHz\_QPSK\_1\_0\_8000-13000 MHz

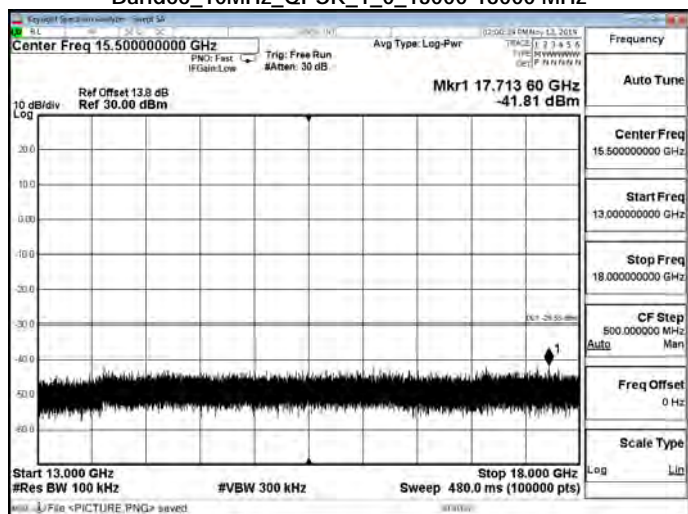


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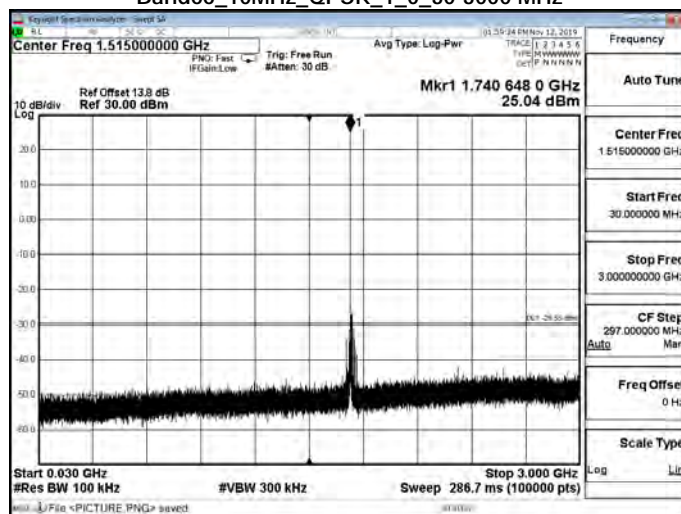
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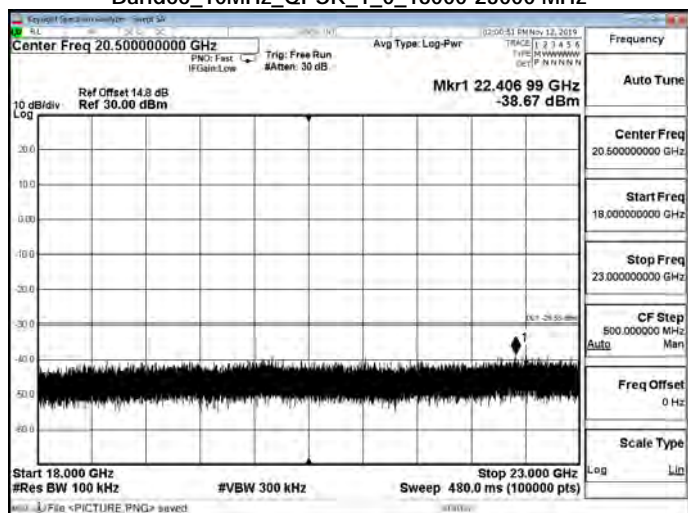
Band66\_10MHz\_QPSK\_1\_0\_13000-18000 MHz



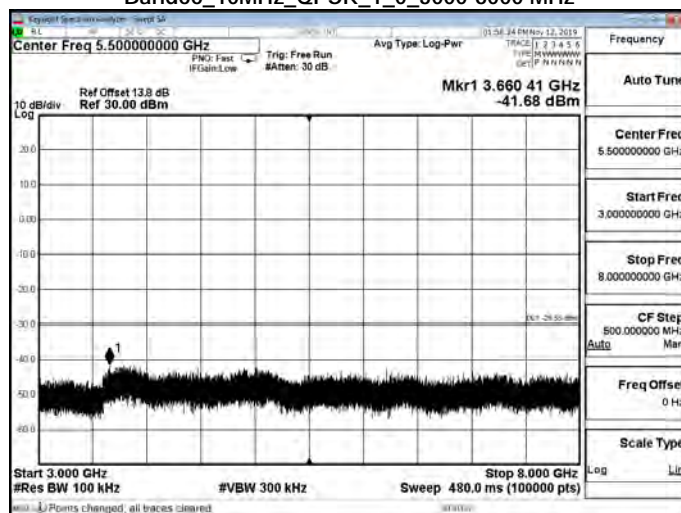
Band66\_10MHz\_QPSK\_1\_0\_30-3000 MHz



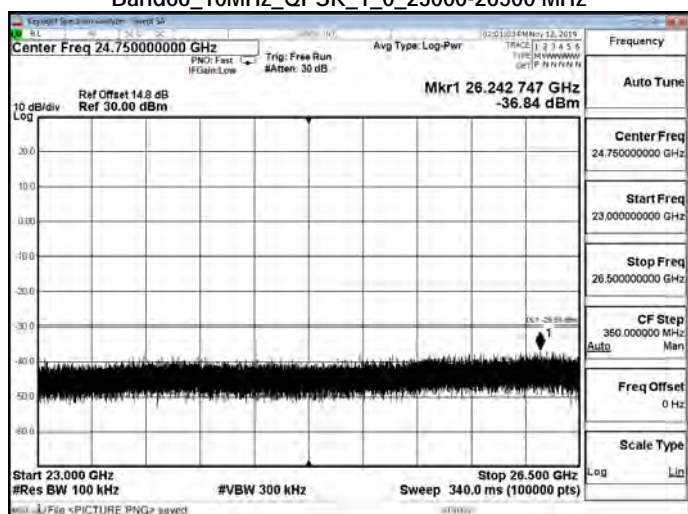
Band66\_10MHz\_QPSK\_1\_0\_18000-23000 MHz



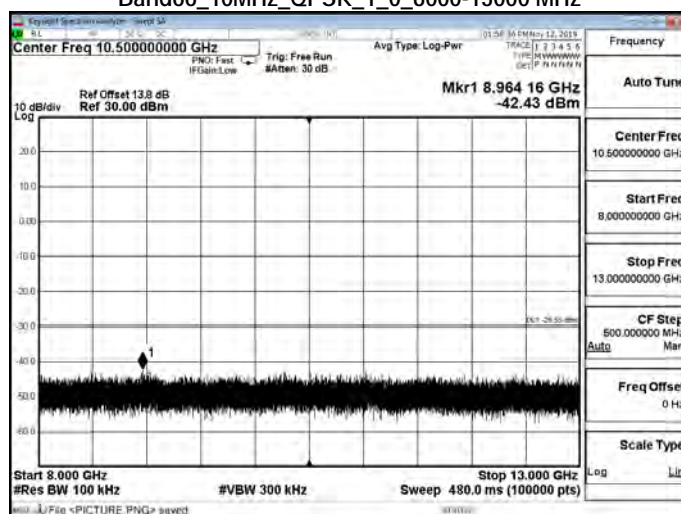
Band66\_10MHz\_QPSK\_1\_0\_3000-8000 MHz



Band66\_10MHz\_QPSK\_1\_0\_23000-26500 MHz



Band66\_10MHz\_QPSK\_1\_0\_8000-13000 MHz



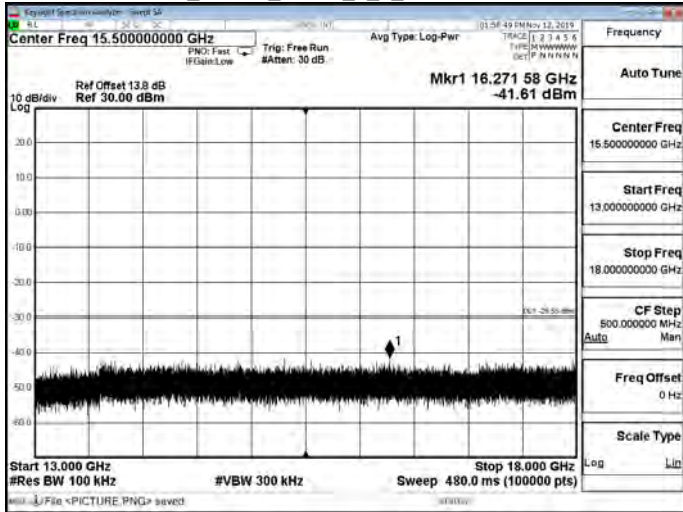
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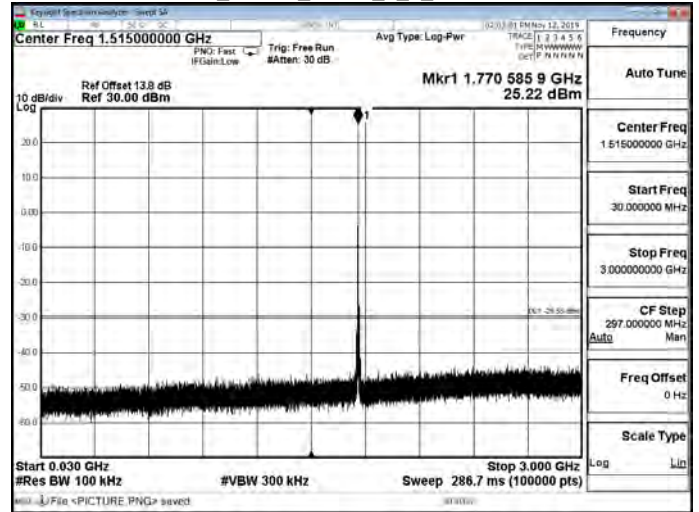
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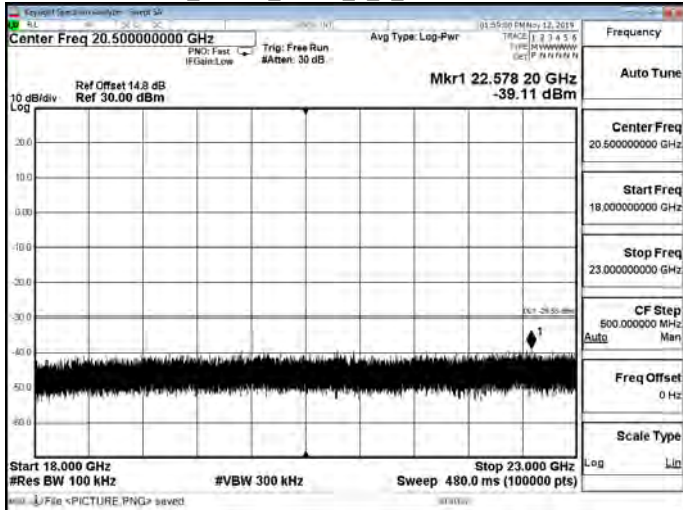
Band66\_10MHz\_QPSK\_1\_0\_13000-18000 MHz



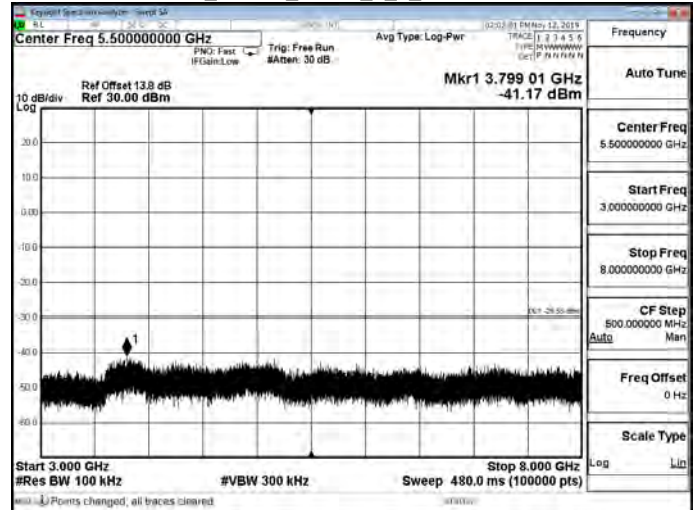
Band66\_10MHz\_QPSK\_1\_0\_30-3000 MHz



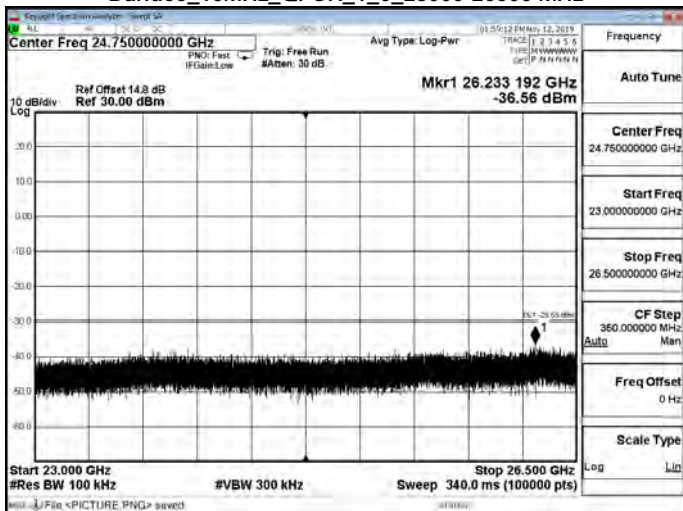
Band66\_10MHz\_QPSK\_1\_0\_18000-23000 MHz



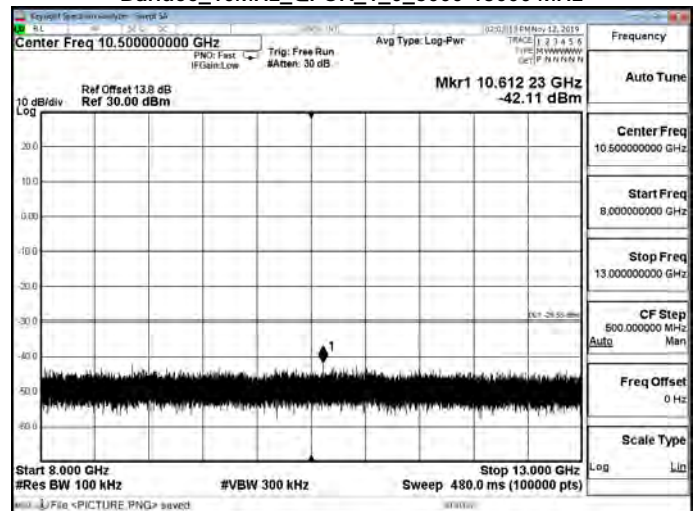
Band66\_10MHz\_QPSK\_1\_0\_3000-8000 MHz



Band66\_10MHz\_QPSK\_1\_0\_23000-26500 MHz



Band66\_10MHz\_QPSK\_1\_0\_8000-13000 MHz

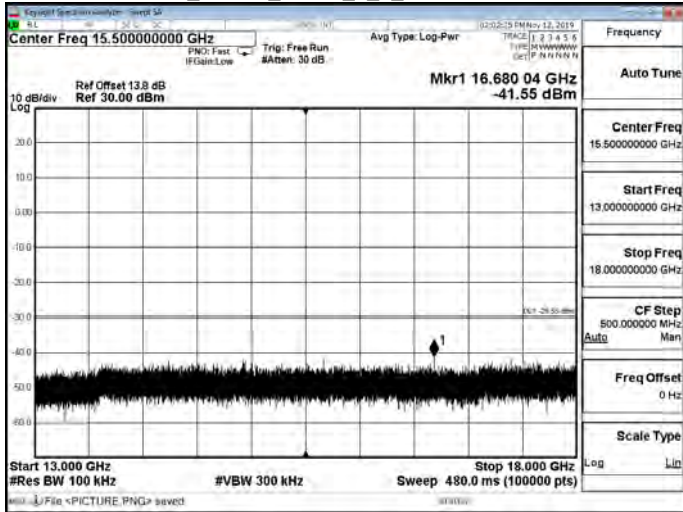


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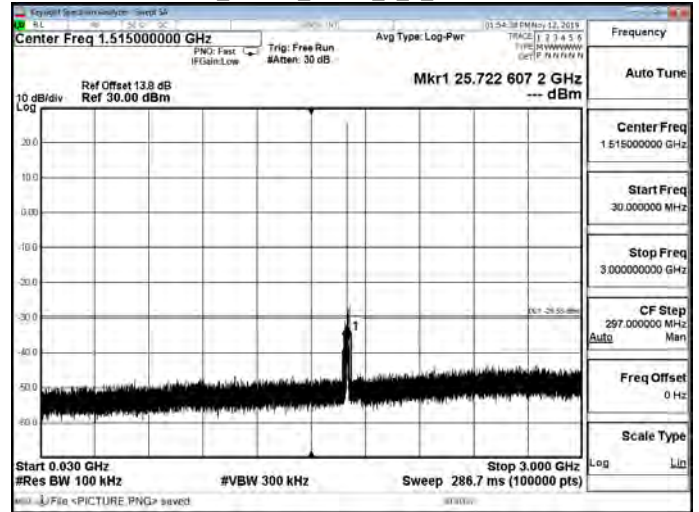
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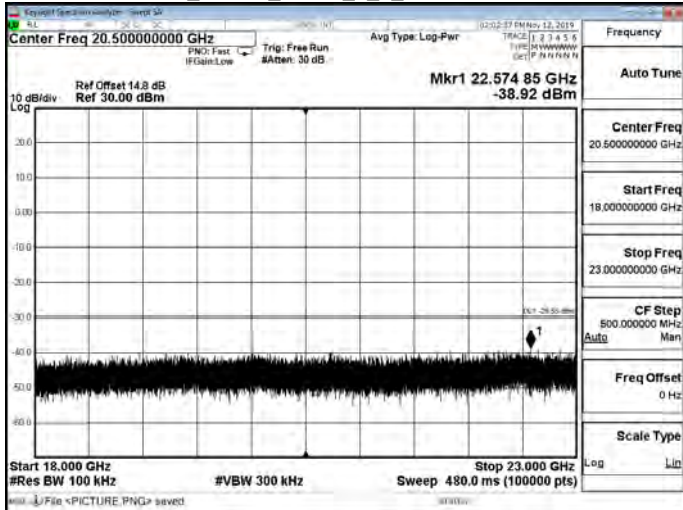
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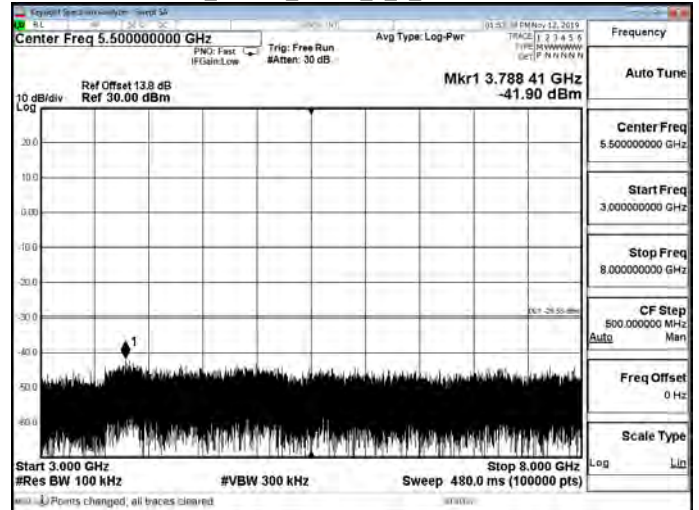
Band66\_15MHz\_QPSK\_1\_0\_30-3000 MHz



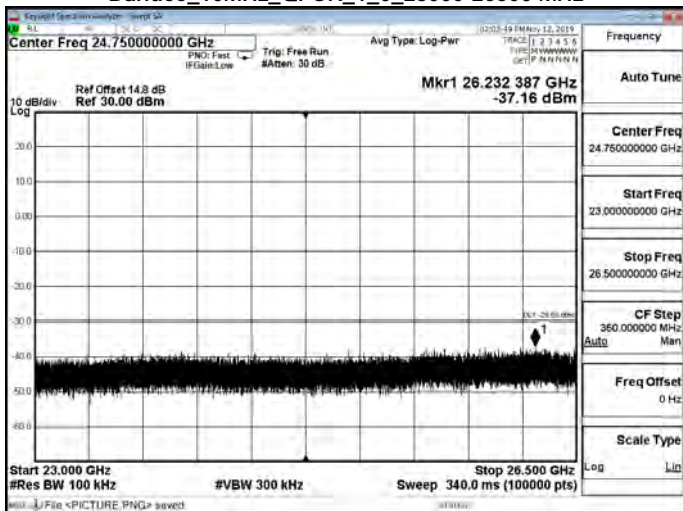
Band66\_10MHz\_QPSK\_1\_0\_18000-23000 MHz



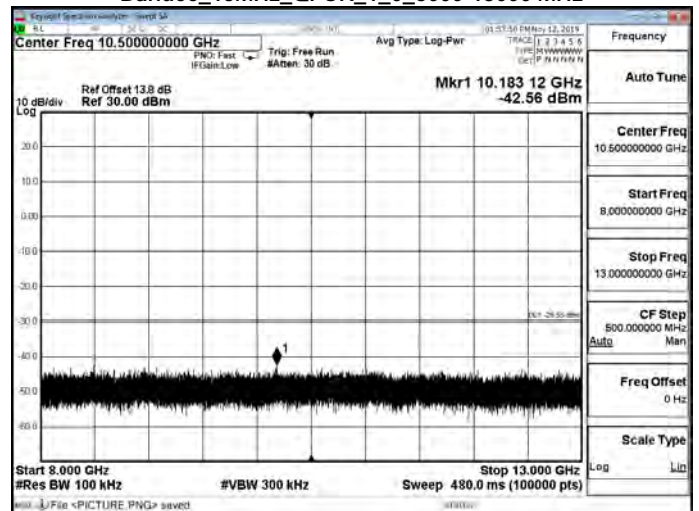
Band66\_15MHz\_QPSK\_1\_0\_3000-8000 MHz



Band66\_10MHz\_QPSK\_1\_0\_23000-26500 MHz



Band66\_15MHz\_QPSK\_1\_0\_8000-13000 MHz



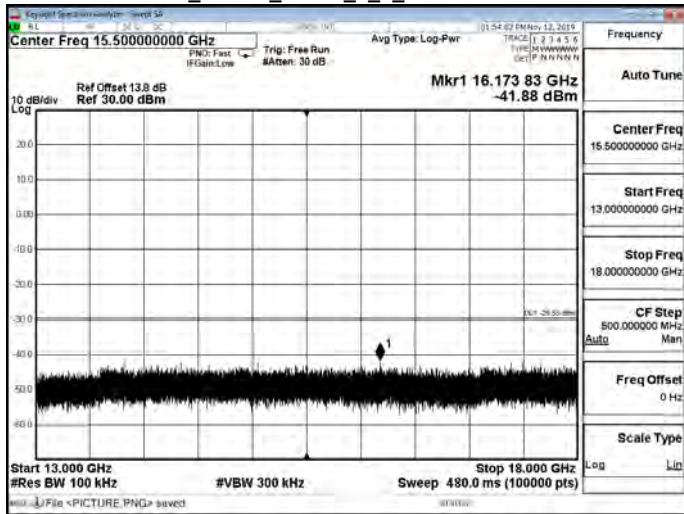
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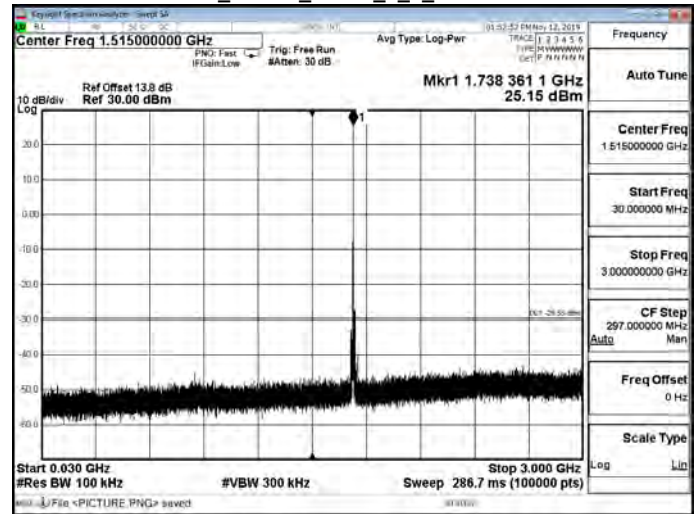
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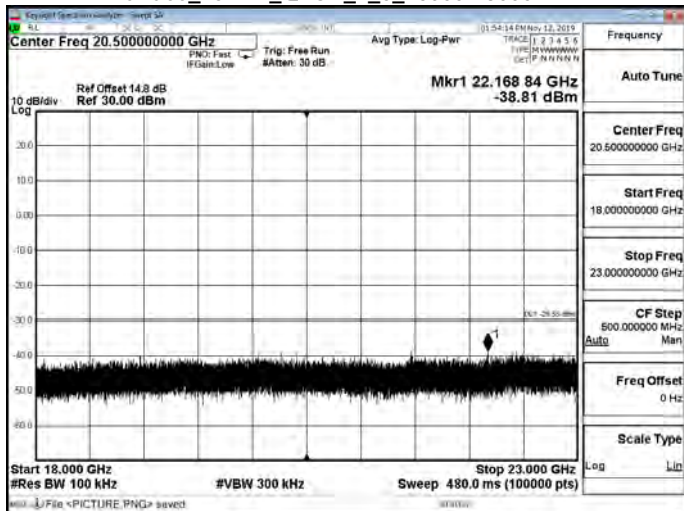
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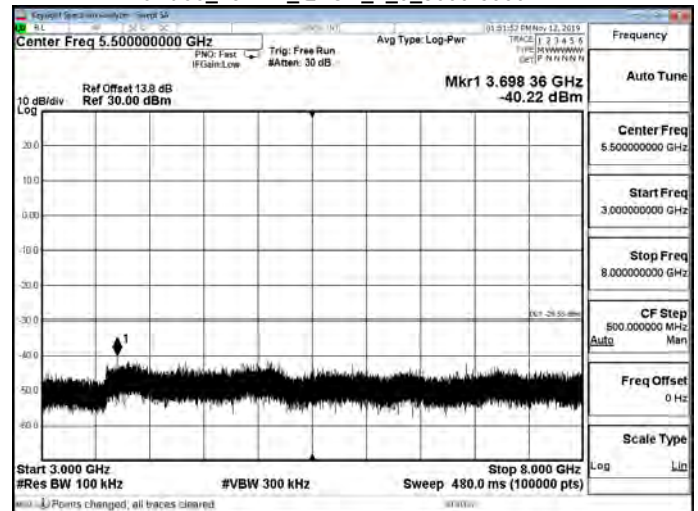
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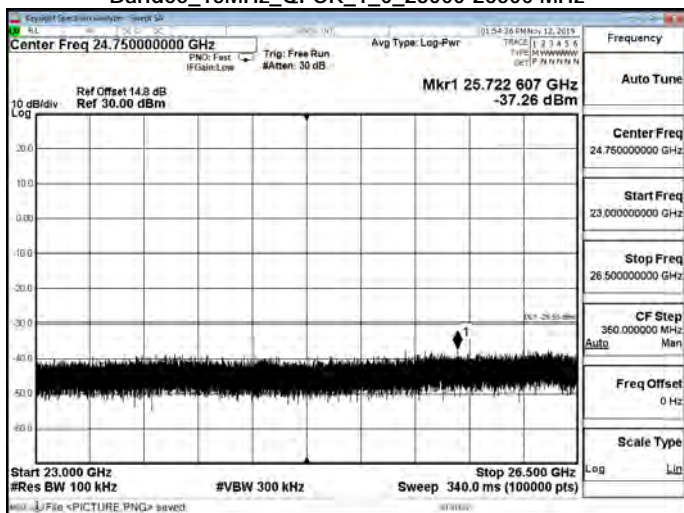
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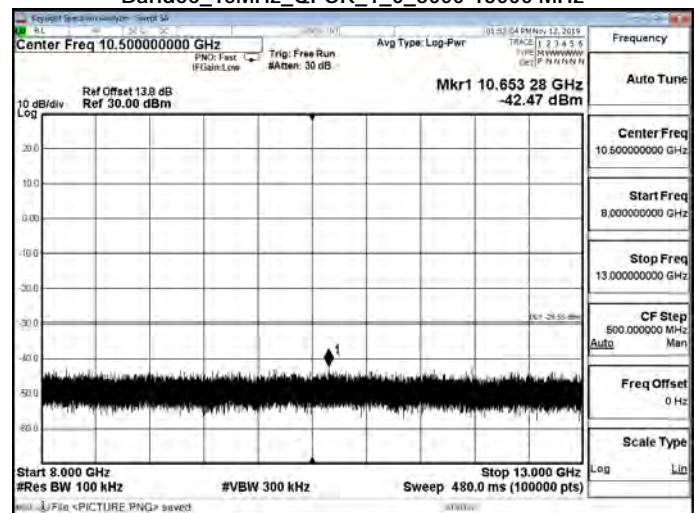
Band66\_15MHz\_QPSK\_1\_0\_3000-8000 MHz



Band66\_15MHz\_QPSK\_1\_0\_23000-26500 MHz



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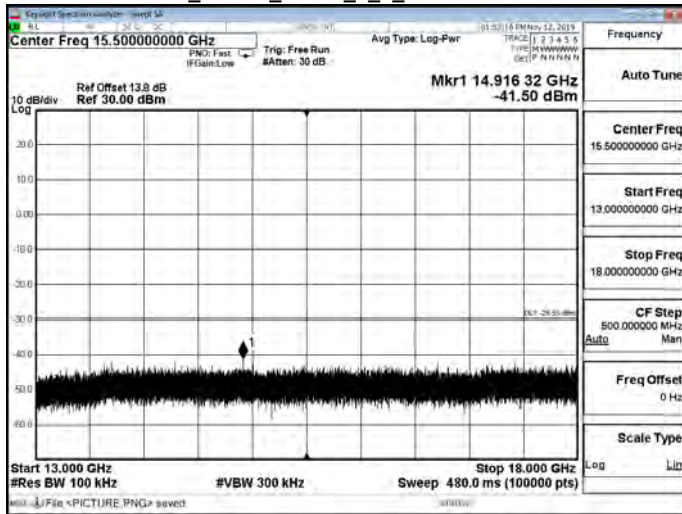


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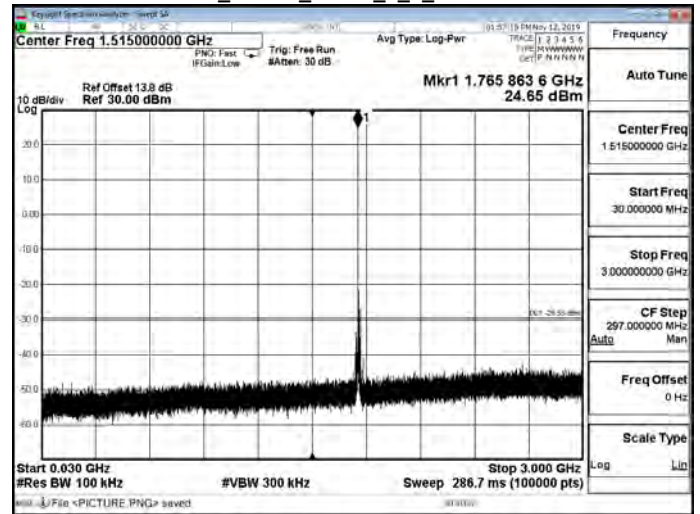
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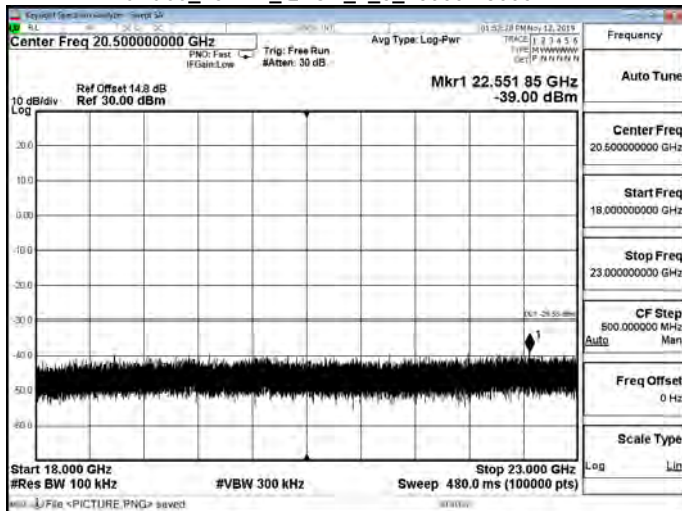
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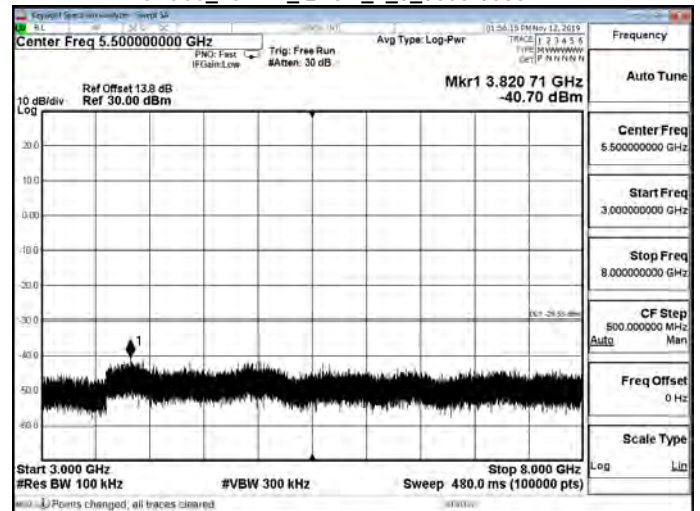
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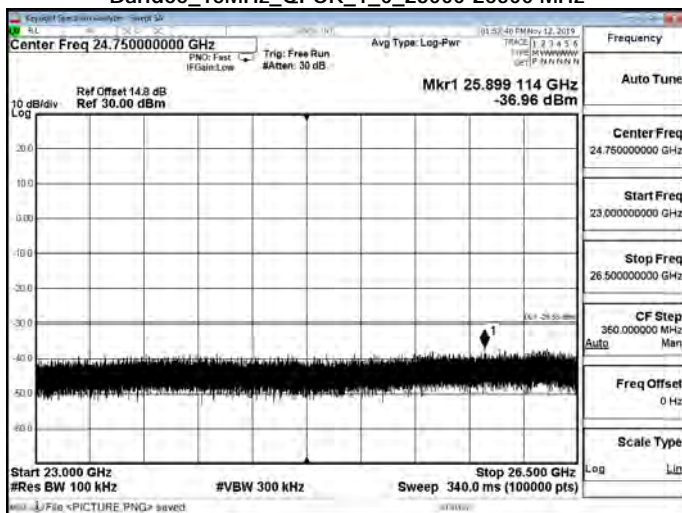
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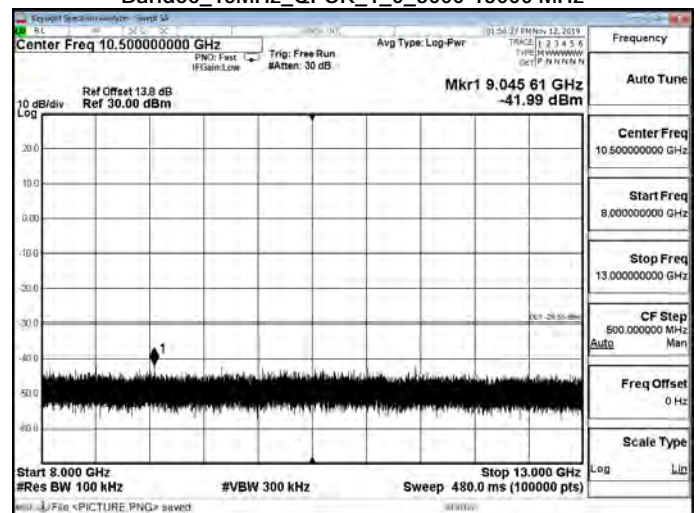
Band66\_15MHz\_QPSK\_1\_0\_3000-8000 MHz



Band66\_15MHz\_QPSK\_1\_0\_23000-26500 MHz



Band66\_15MHz\_QPSK\_1\_0\_8000-13000 MHz



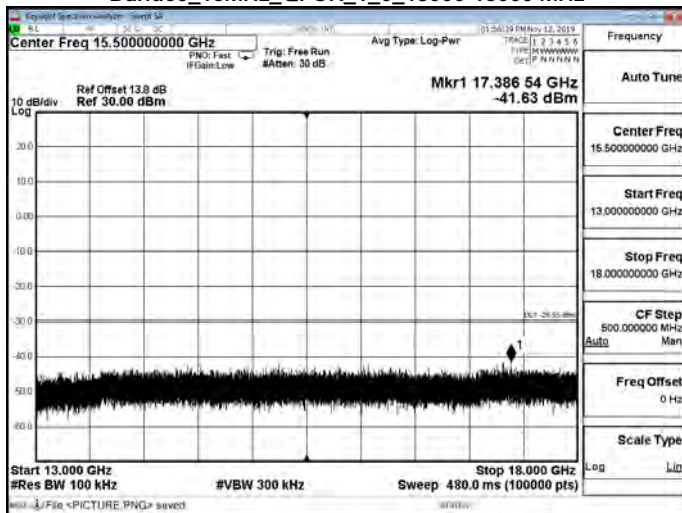
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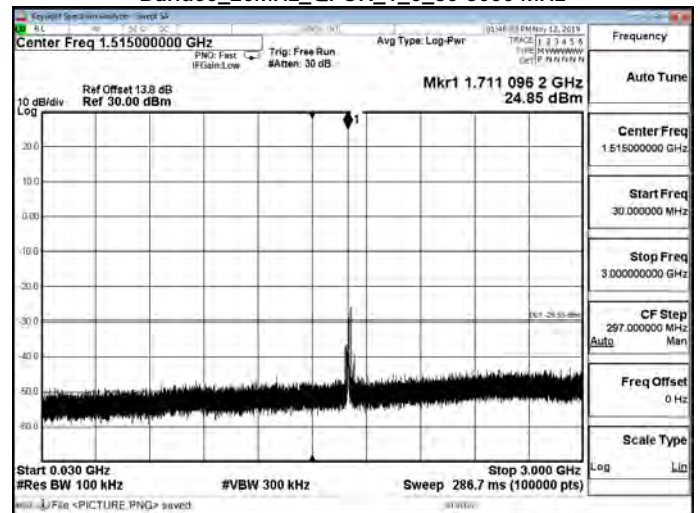
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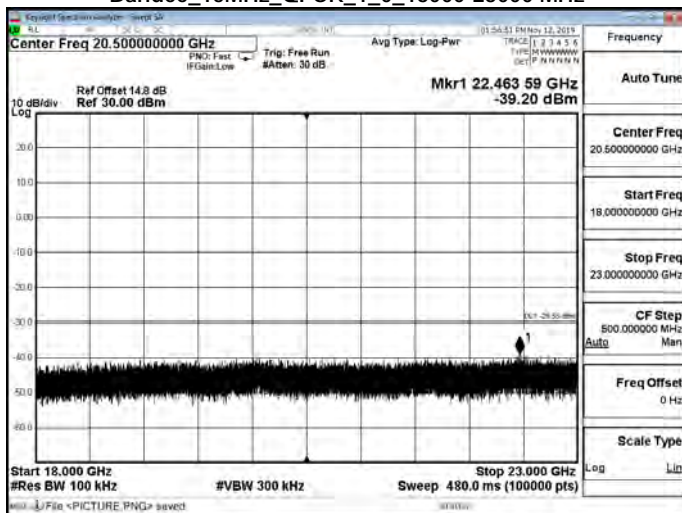
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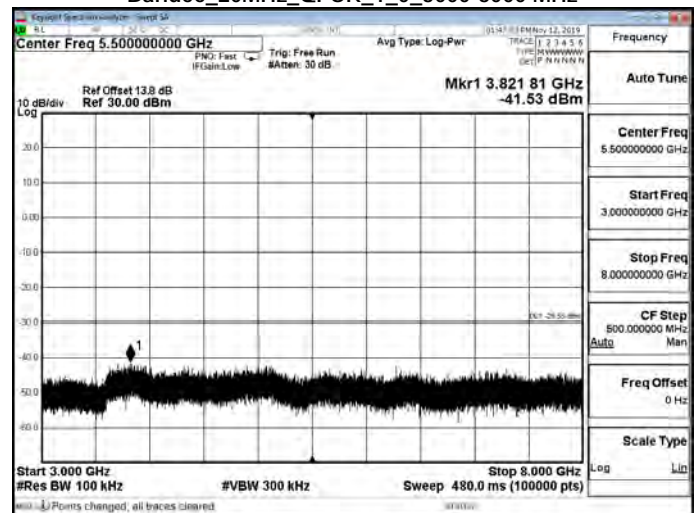
Band66\_20MHz\_QPSK\_1\_0\_30-3000 MHz



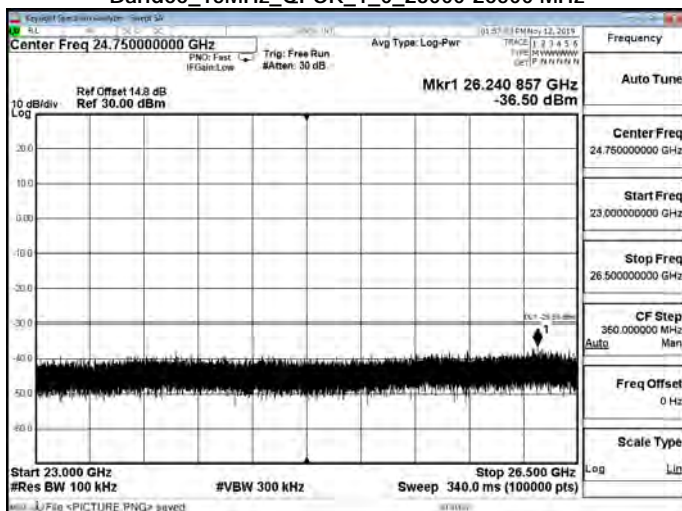
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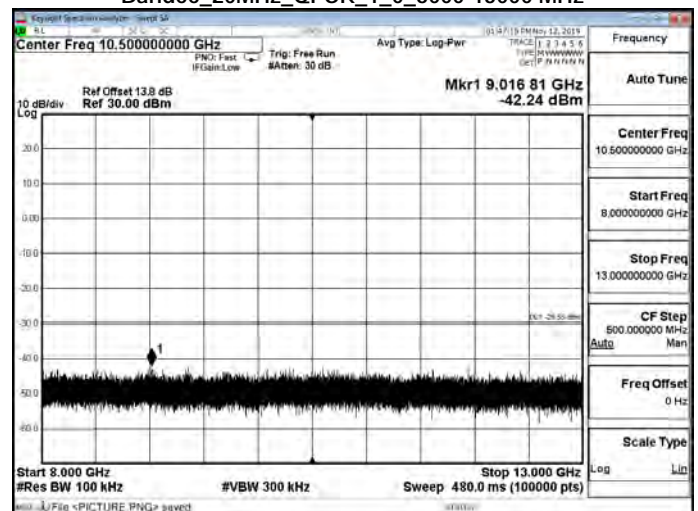
Band66\_20MHz\_QPSK\_1\_0\_3000-8000 MHz



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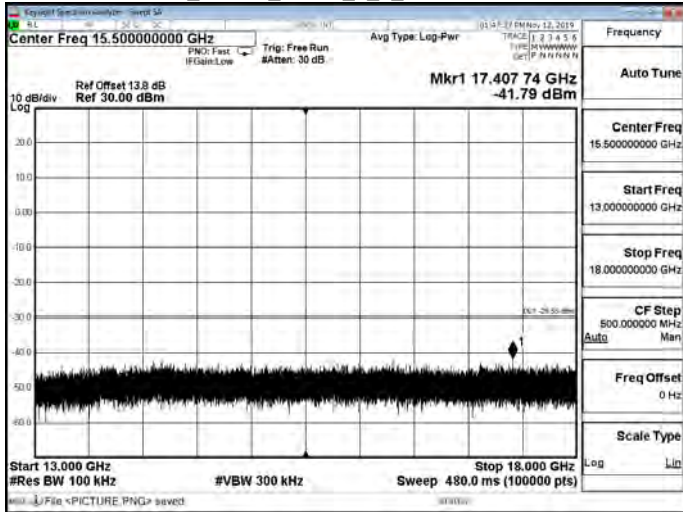


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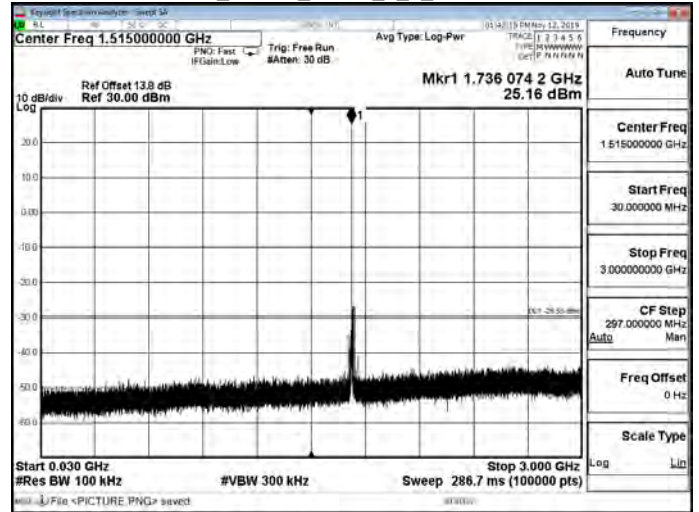
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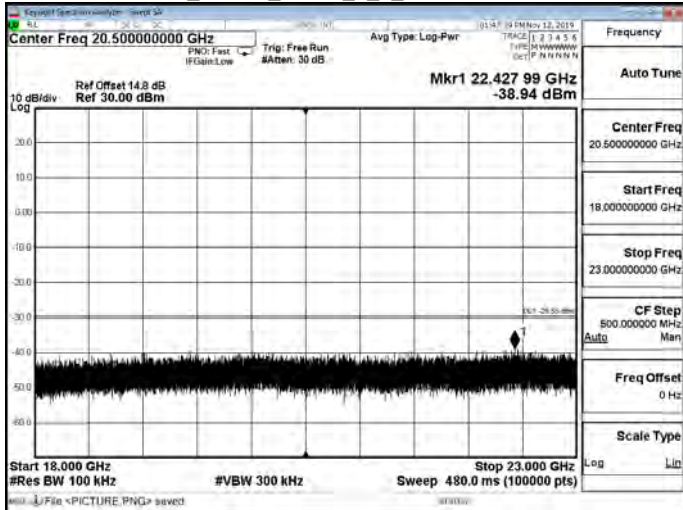
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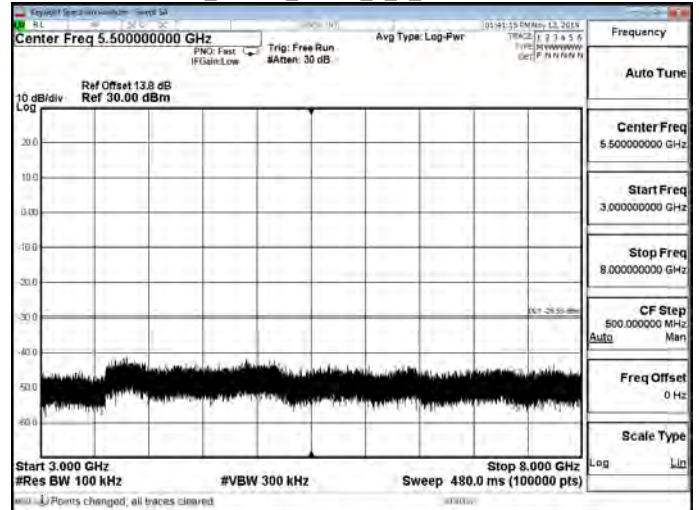
Band66\_20MHz\_QPSK\_1\_0\_30-3000 MHz



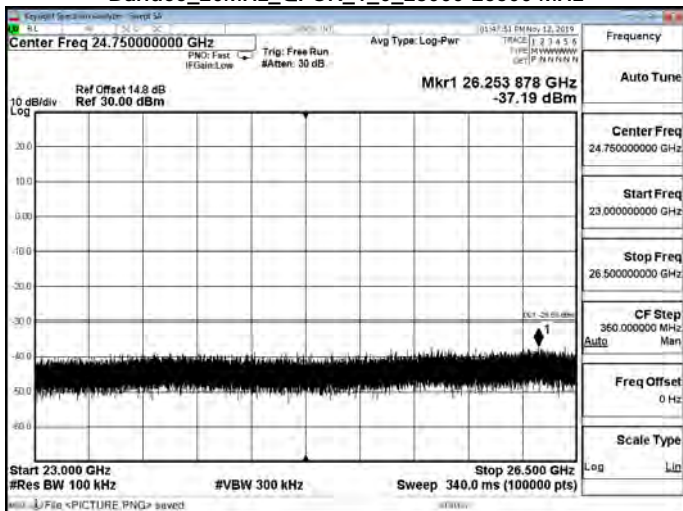
Band66\_20MHz\_QPSK\_1\_0\_18000-23000 MHz



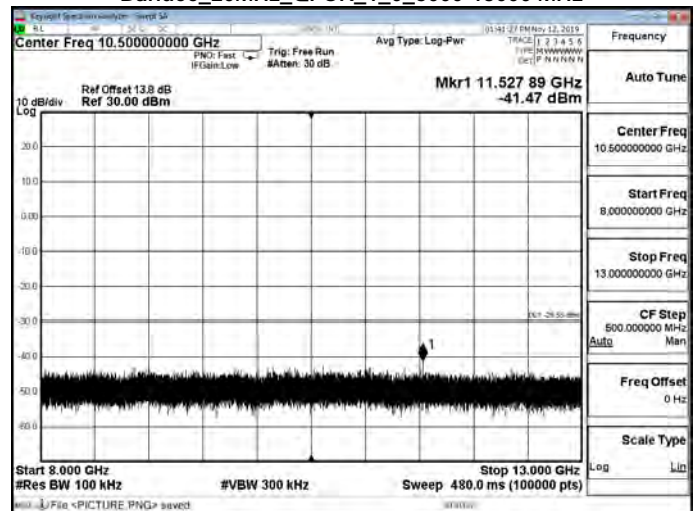
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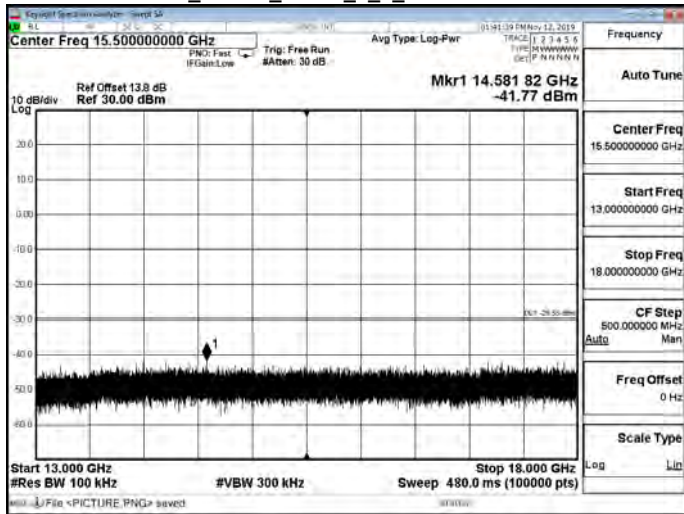
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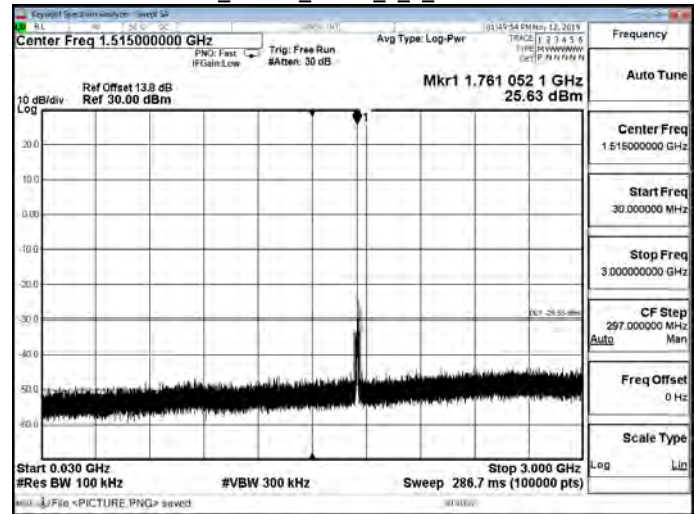
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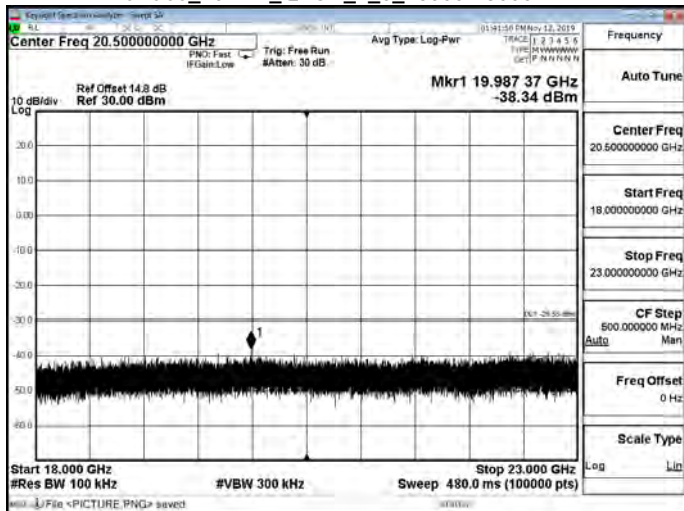
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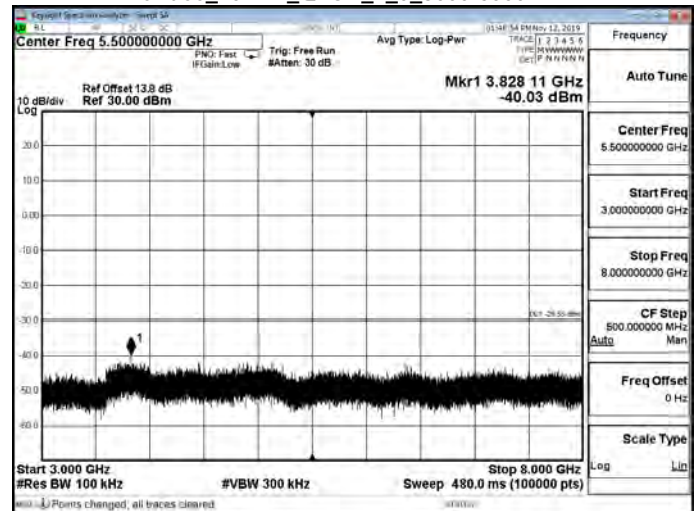
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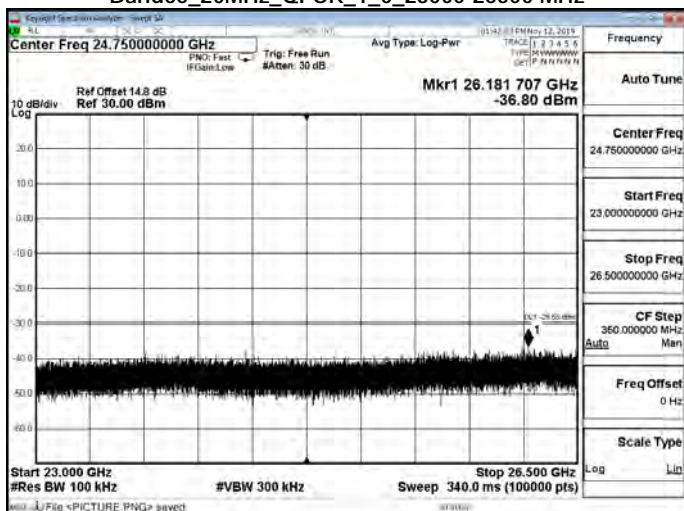
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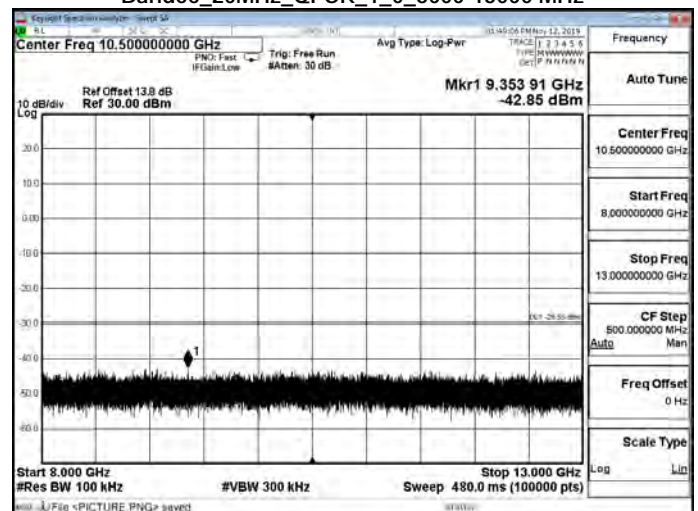
Band66\_20MHz\_QPSK\_1\_0\_3000-8000 MHz



Band66\_20MHz\_QPSK\_1\_0\_23000-26500 MHz



Band66\_20MHz\_QPSK\_1\_0\_8000-13000 MHz

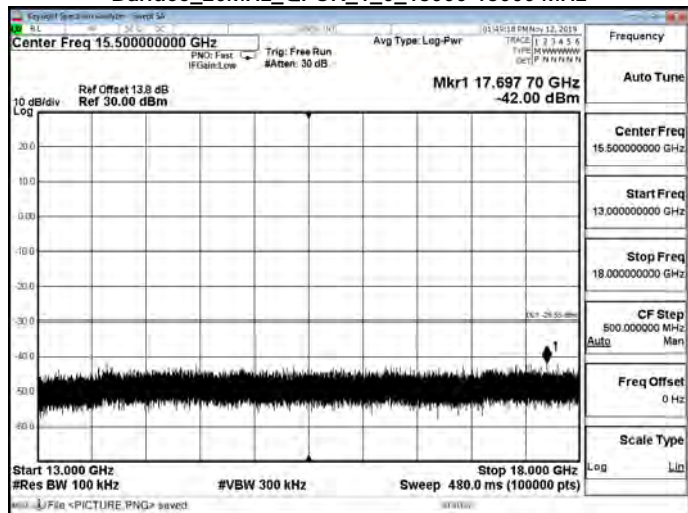


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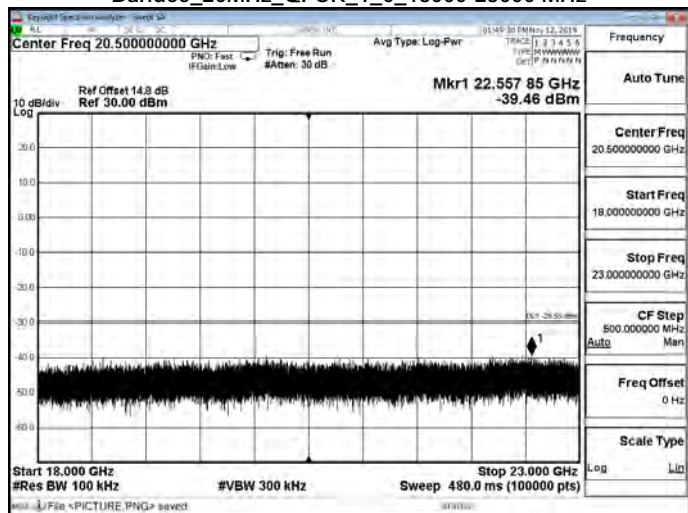
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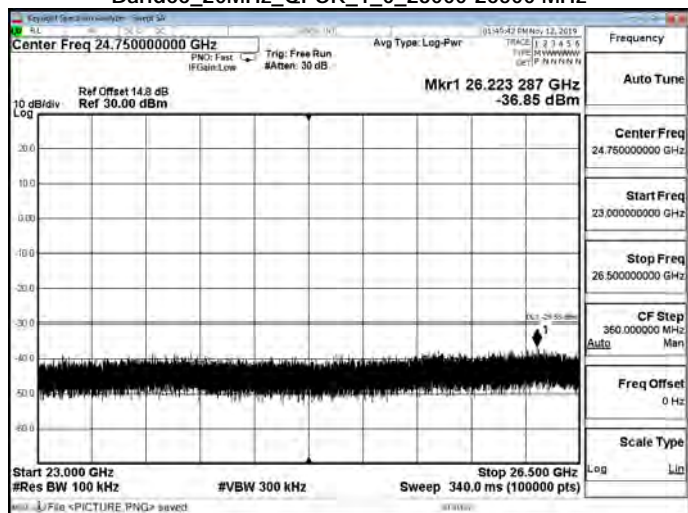
## Band66\_20MHz\_QPSK\_1\_0\_13000-18000 MHz



## Band66\_20MHz\_QPSK\_1\_0\_18000-23000 MHz



## Band66\_20MHz\_QPSK\_1\_0\_23000-26500 MHz



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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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According to RSS-130 §4.6

The power of any unwanted emissions in any 100 kHz bandwidth on any frequency outside the frequency range(s) within which the equipment is designed to operate shall be attenuated below the transmitter power,  $P$  (dBW), by at least  $43 + 10 \log_{10} p$  (watts), dB. However, in the 100 kHz band immediately outside the equipment's operating frequency range, a resolution bandwidth of 30 kHz may be employed.

In addition to the limit outlined in Section 4.6.1 above, equipment operating in the frequency bands 746-756 MHz and 777-787 MHz shall also comply with the following restrictions:

(a) The power of any unwanted emissions in any 6.25 kHz bandwidth for all frequencies between 763-775 MHz and 793-806 MHz shall be attenuated below the transmitter power,

$P$  (dBW), by at least:

- (i)  $76 + 10 \log_{10} p$  (watts), dB, for base and fixed equipment, and
- (ii)  $65 + 10 \log_{10} p$  (watts), dB, for mobile and portable equipment.

According to RSS-132 §5.5

Mobile and base station equipment shall comply with the limits in (i) and (ii) below.

(i) In the first 1.0 MHz band immediately outside and adjacent to each of the sub-bands specified in Section 5.1, the power of emissions per any 1% of the occupied bandwidth shall be attenuated (in dB) below the transmitter output power  $P$  (dBW) by at least  $43 + 10 \log_{10} p$  (watts).

(ii) After the first 1.0 MHz immediately outside and adjacent to each of the sub-bands, the power of emissions in any 100 kHz bandwidth shall be attenuated (in dB) below the transmitter output power  $P$  (dBW) by at least  $43 + 10 \log_{10} p$  (watts). If the measurement is performed using 1% of the occupied bandwidth, power integration over 100 kHz is required.

According to RSS-133 §6.5.1

Equipment shall comply with the limits in (i) and (ii) below.

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

(ii) After the first 1.0 MHz, the emission power in any 1 MHz bandwidth shall be attenuated (in dB) below the transmitter output power  $P$  (dBW) by at least  $43 + 10 \log_{10} p$  (watts). If the measurement is performed using 1% of the emission bandwidth, power integration over 1.0 MHz is required.

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According to RSS-139 §6.5

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

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

According to RSS-195 §5.6.2

The power of any emission outside the frequency range(s) in which the equipment operates shall be attenuated below the transmitter power, P(dBW), by the amount indicated in Table 2 and graphically represented in Figure 2, where p is the transmitter output power measured in watts.

**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	$43 + 10 \log_{10}(p)^{\text{Note}}$
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	$43 + 10 \log_{10}(p)^{\text{Note}}$
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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According to RSS-199 §4.6

Equipment shall comply with the following unwanted emission limits:

- (a) for base station and fixed subscriber equipment, the power of any unwanted emissions measured as above shall be attenuated (in dB) below the transmitter power,  $P$  (dBW), by at least  $43 + 10 \log_{10} p$ .
- (b) for mobile subscriber equipment, the power of any unwanted emissions measured as above shall be attenuated (in dB) below the transmitter power,  $P$  (dBW), by at least:
  - (i)  $40 + 10 \log_{10} p$  from the channel edges to 5 MHz away
  - (ii)  $43 + 10 \log_{10} p$  between 5 MHz and  $X$  MHz from the channel edges, and
  - (iii)  $55 + 10 \log_{10} p$  at  $X$  MHz and beyond from the channel edges

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

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

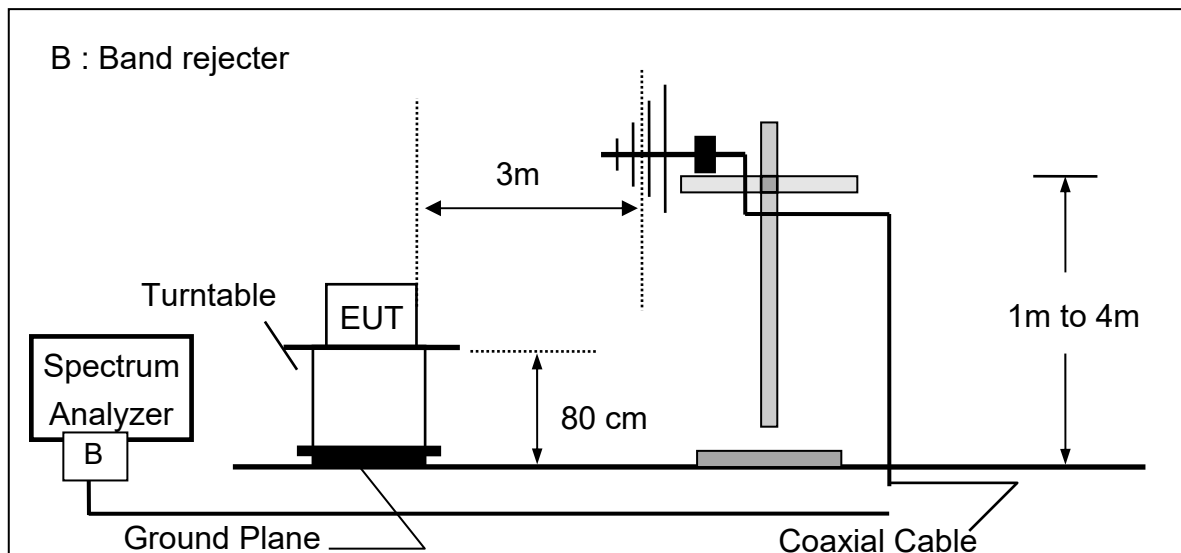
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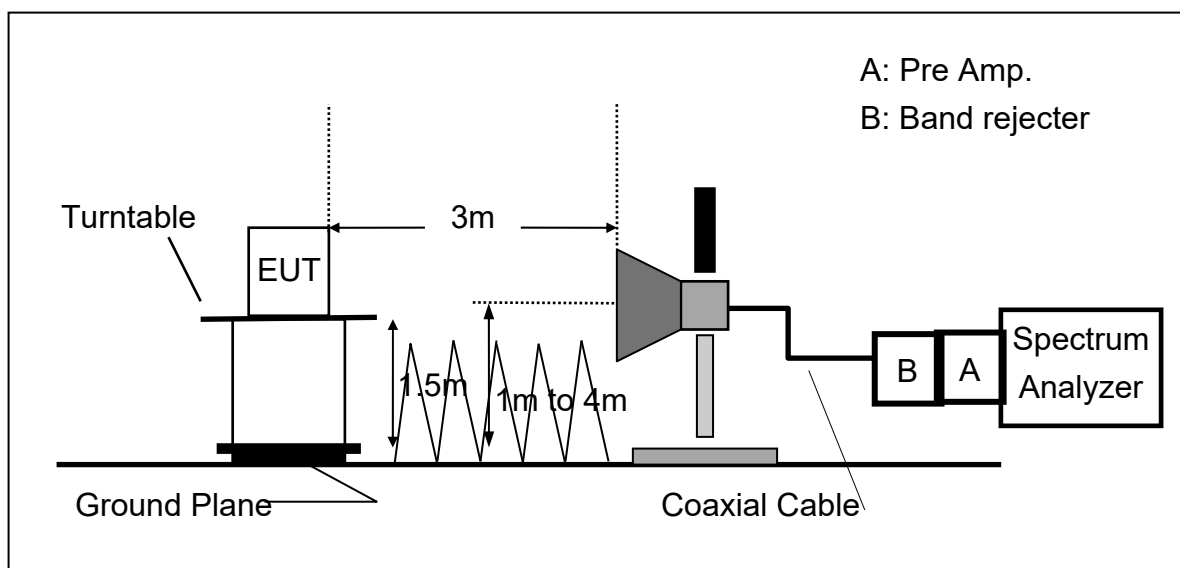
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## 9.2. EUT Setup

### 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:

ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Broadband Antenna	TESEQ	CBL 6112D	35240	09/09/2019	09/08/2020
Horn Antenna	Schwarzbeck	BBHA9120D	1187	01/09/2019	01/08/2020
Horn Antenna	SCHWAZBECK	BBHA9170	184	12/27/2018	12/26/2019
Loop Antenna	ETS.LINDGREN	6502	143303	04/25/2019	04/24/2020
EMI Test Receiver	R&S	ESU 40	100363	04/15/2019	04/14/2020
Radio Communication Analyser	Anritsu	MT8820C	6201107337	07/17/2019	07/16/2020
Pre-Amplifier	EMC Instruments	EMC330	980096	12/25/2018	12/24/2019
Pre-Amplifier	EMC Instruments	EMC0011830	980199	12/25/2018	12/24/2019
Pre-Amplifier	EMC Instruments	EMC184045B	980135	12/25/2018	12/24/2019
Notch Filter	Woken	EWT-54-0037	RF54	12/25/2018	12/24/2019
Notch Filter	Woken	EWT-54-0038	RF55	12/25/2018	12/24/2019
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17388/4	12/25/2018	12/24/2019
Coaxial Cable	Huber Suhner	RG 214/U	W22.03	12/25/2018	12/24/2019
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17413/4	12/25/2018	12/24/2019

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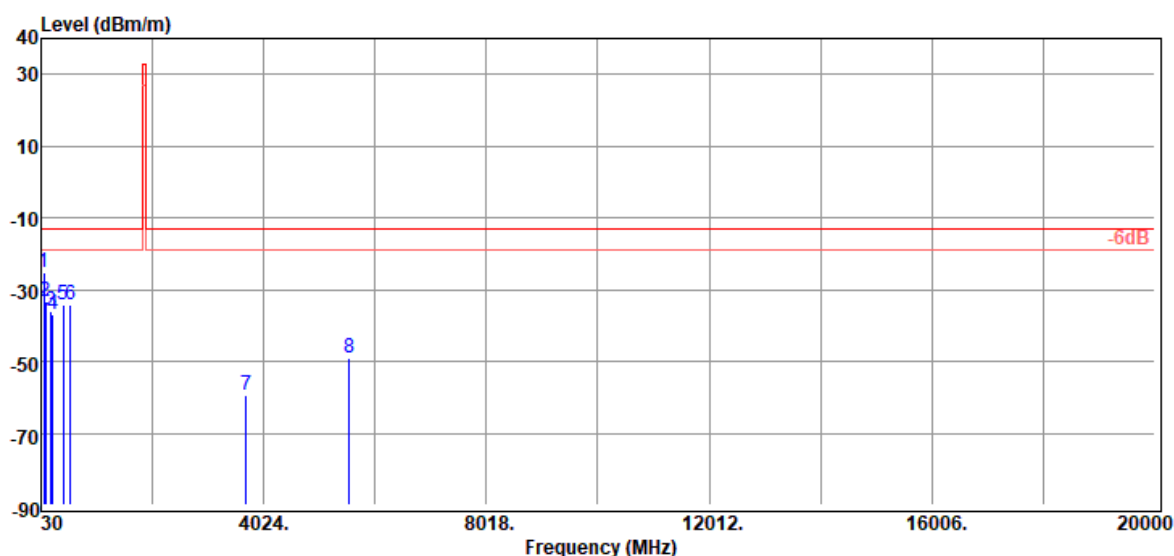
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## 9.5. Measurement Result:

### Radiated Spurious Emission Measurement Result: WCDMA Band 2 Mode

Report Number	:E2/2019/90045	Test Date	:2019-11-07
Operation Mode	:WCDMA B2	Temp./Humi.	:23.3/66
Test Mode	:TX CH LOW	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plan	Engineer	:Enzo
Test Channel	:1852.4 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
74.62	-25.34	-22.75	-1.55	-1.04	-13.00	-12.34
104.69	-33.36	-28.49	-3.51	-1.36	-13.00	-20.36
217.21	-35.99	-38.28	4.42	-2.13	-13.00	-22.99
246.31	-36.88	-37.76	3.08	-2.20	-13.00	-23.88
427.70	-34.23	-34.72	3.59	-3.10	-13.00	-21.23
558.65	-34.05	-34.68	4.10	-3.47	-13.00	-21.05
3704.80	-59.56	-60.80	12.52	-11.28	-13.00	-46.56
5557.20	-48.97	-50.80	13.20	-11.37	-13.00	-35.97

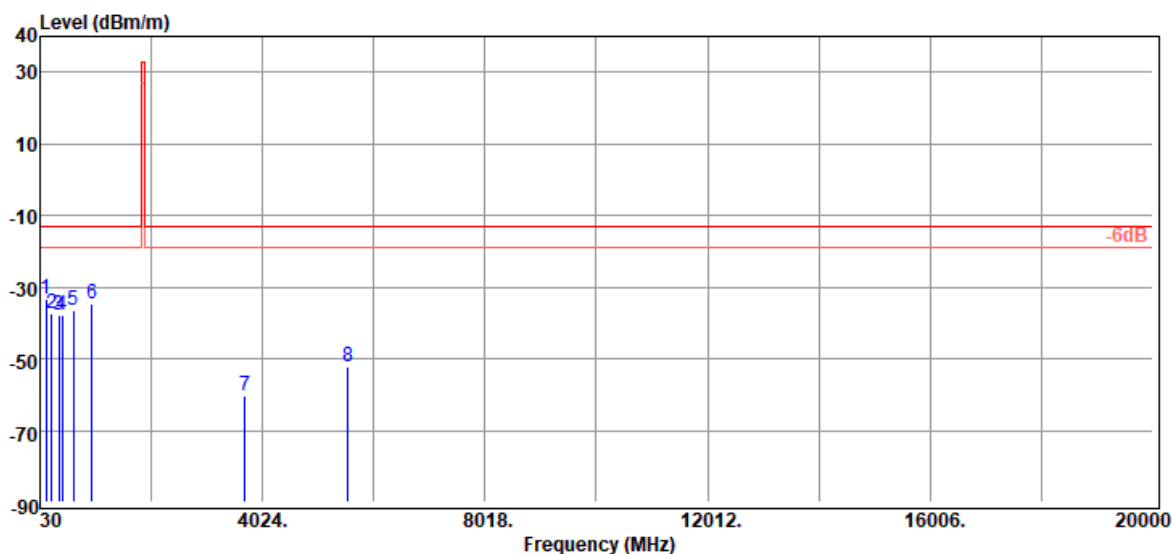
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Report Number :E2/2019/90045  
Operation Mode :WCDMA B2  
Test Mode :TX CH LOW  
EUT Pol :E2 Plan  
Test Channel :1852.4 MHz

Test Date :2019-11-07  
Temp./Humi. :23.3/66  
Antenna Pol. :HORIZONTAL  
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
135.73	-33.39	-30.15	-1.61	-1.63	-13.00	-20.39
233.70	-37.22	-38.78	3.73	-2.17	-13.00	-24.22
369.50	-37.87	-38.63	3.62	-2.86	-13.00	-24.87
427.70	-37.75	-38.24	3.59	-3.10	-13.00	-24.75
631.40	-36.58	-37.43	4.47	-3.62	-13.00	-23.58
959.26	-34.86	-35.09	5.42	-5.19	-13.00	-21.86
3704.80	-60.14	-61.38	12.52	-11.28	-13.00	-47.14
5557.20	-52.31	-54.14	13.20	-11.37	-13.00	-39.31

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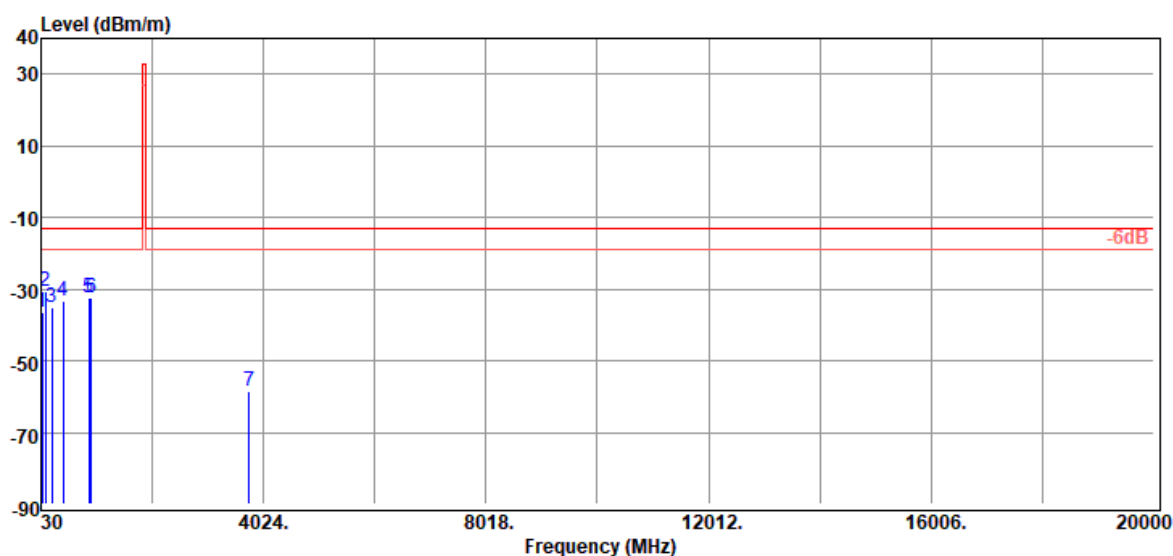
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Report Number :E2/2019/90045  
Operation Mode :WCDMA B2  
Test Mode :TX CH MID  
EUT Pol :E2 Plan  
Test Channel :1880 MHz

Test Date :2019-11-07  
Temp./Humi. :23.3/66  
Antenna Pol. :VERTICAL  
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
51.34	-36.35	-29.20	-6.30	-0.85	-13.00	-23.35
102.75	-30.46	-25.73	-3.40	-1.33	-13.00	-17.46
230.79	-35.31	-37.01	3.86	-2.16	-13.00	-22.31
428.67	-33.22	-33.77	3.65	-3.10	-13.00	-20.22
896.21	-32.43	-33.09	5.24	-4.58	-13.00	-19.43
935.98	-32.37	-33.03	5.47	-4.81	-13.00	-19.37
3760.00	-58.44	-59.95	12.56	-11.05	-13.00	-45.44

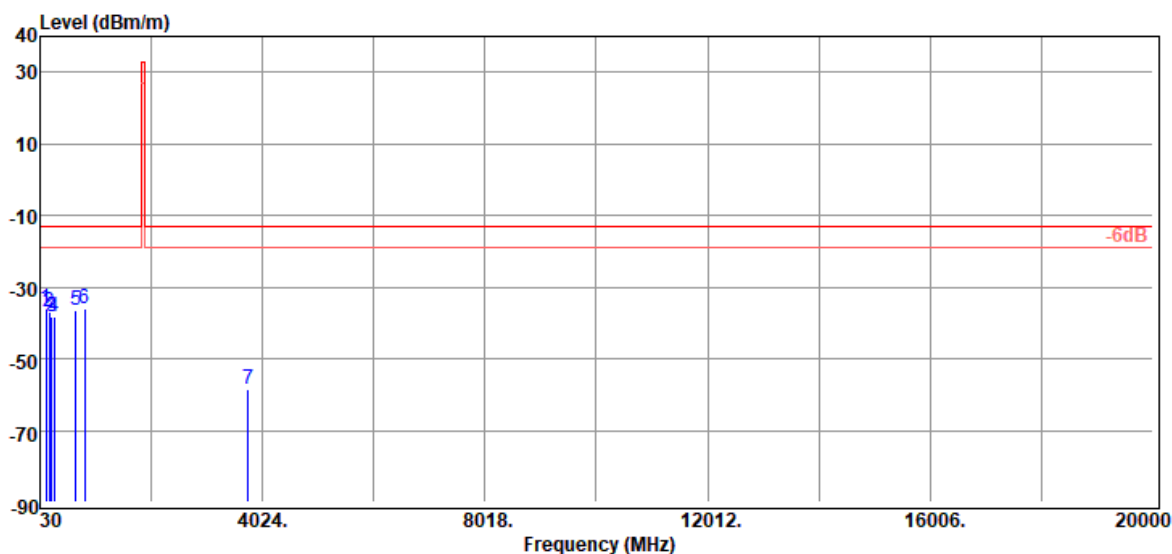
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Report Number :E2/2019/90045  
Operation Mode :WCDMA B2  
Test Mode :TX CH MID  
EUT Pol :E2 Plan  
Test Channel :1880 MHz

Test Date :2019-11-07  
Temp./Humi. :23.3/66  
Antenna Pol. :HORIZONTAL  
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
134.76	-35.87	-32.47	-1.77	-1.63	-13.00	-22.87
189.08	-36.70	-38.86	3.99	-1.83	-13.00	-23.70
232.73	-38.21	-39.82	3.78	-2.17	-13.00	-25.21
286.08	-38.21	-39.34	3.57	-2.44	-13.00	-25.21
666.32	-36.53	-37.30	4.64	-3.87	-13.00	-23.53
838.98	-35.95	-36.72	5.28	-4.51	-13.00	-22.95
3760.00	-58.51	-60.02	12.56	-11.05	-13.00	-45.51

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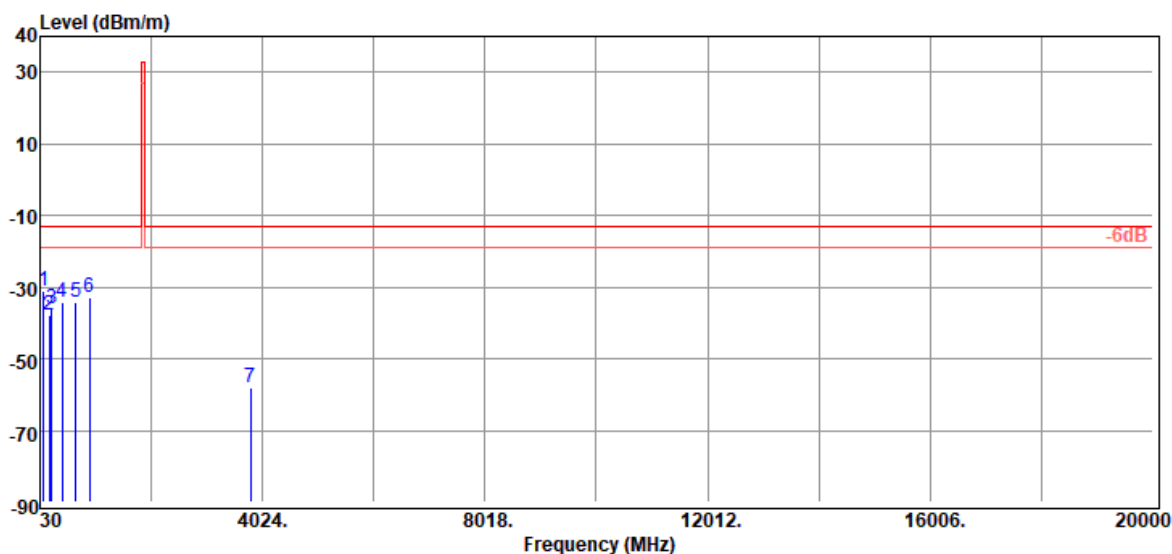
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Report Number :E2/2019/90045  
Operation Mode :WCDMA B2  
Test Mode :TX CH HIGH  
EUT Pol :E2 Plan  
Test Channel :1907.6 MHz

Test Date :2019-11-08  
Temp./Humi. :23.3/66  
Antenna Pol. :VERTICAL  
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
101.78	-30.99	-26.23	-3.44	-1.32	-13.00	-17.99
190.05	-37.61	-39.71	3.94	-1.84	-13.00	-24.61
233.70	-36.18	-37.74	3.73	-2.17	-13.00	-23.18
426.73	-34.25	-34.68	3.53	-3.10	-13.00	-21.25
678.93	-34.18	-35.03	4.78	-3.93	-13.00	-21.18
912.70	-32.77	-33.48	5.42	-4.71	-13.00	-19.77
3815.20	-58.08	-59.81	12.59	-10.86	-13.00	-45.08

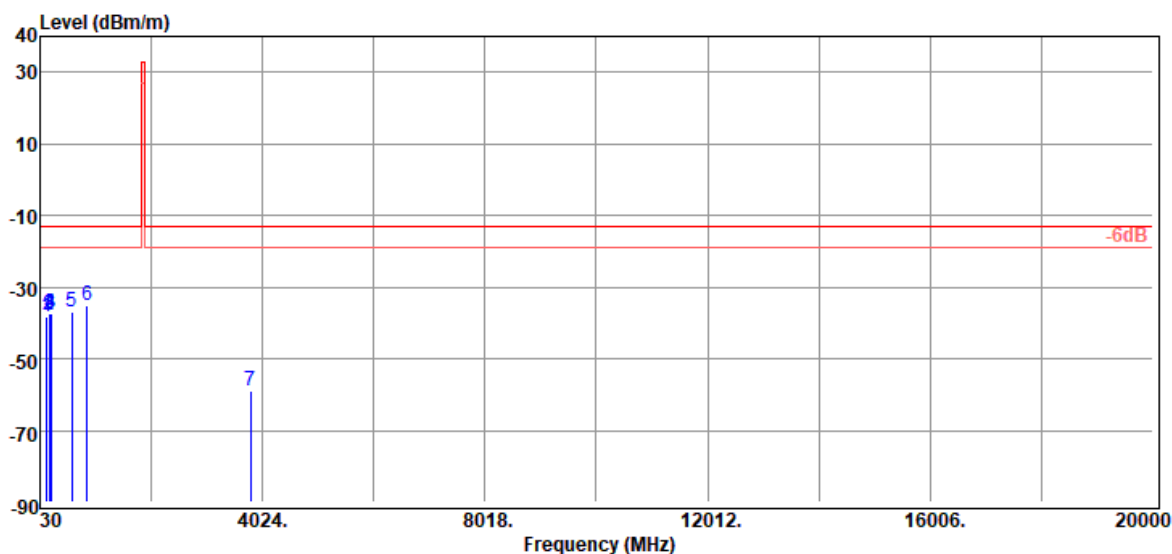
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Report Number :E2/2019/90045  
Operation Mode :WCDMA B2  
Test Mode :TX CH HIGH  
EUT Pol :E2 Plan  
Test Channel :1907.6 MHz

Test Date :2019-11-08  
Temp./Humi. :23.3/66  
Antenna Pol. :HORIZONTAL  
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
148.34	-38.12	-36.59	0.12	-1.65	-13.00	-25.12
196.84	-37.70	-39.38	3.66	-1.98	-13.00	-24.70
214.30	-37.25	-39.55	4.40	-2.10	-13.00	-24.25
225.94	-37.28	-39.18	4.06	-2.16	-13.00	-24.28
598.42	-36.72	-37.14	4.33	-3.91	-13.00	-23.72
878.75	-35.10	-35.46	5.26	-4.90	-13.00	-22.10
3815.20	-59.07	-60.80	12.59	-10.86	-13.00	-46.07

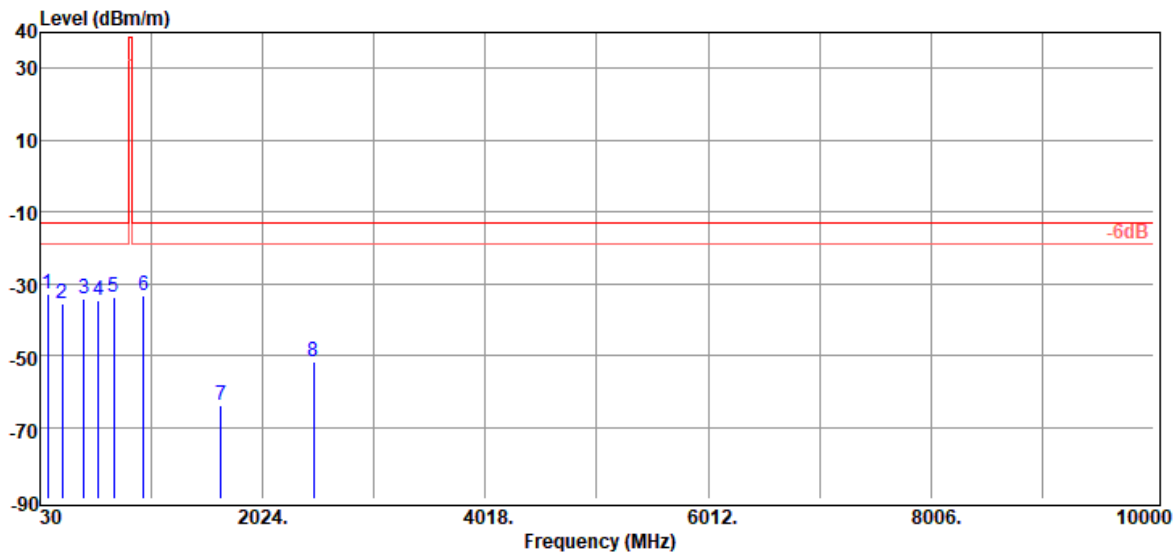
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## Radiated Spurious Emission Measurement Result: WCDMA Band 5 Mode

Report Number	:E2/2019/90045	Test Date	:2019-11-08
Operation Mode	:WCDMA B5	Temp./Humi.	:23.3/66
Test Mode	:TX CH LOW	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plan	Engineer	:Enzo
Test Channel	:826.4 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
99.84	-32.83	-28.19	-3.34	-1.30	-13.00	-19.83
224.97	-35.74	-37.68	4.10	-2.16	-13.00	-22.74
420.91	-34.16	-34.32	3.26	-3.10	-13.00	-21.16
552.83	-34.89	-35.18	3.97	-3.68	-13.00	-21.89
692.51	-33.98	-34.72	5.00	-4.26	-13.00	-20.98
955.38	-33.18	-33.63	5.46	-5.01	-13.00	-20.18
1652.80	-63.99	-65.18	8.71	-7.52	-13.00	-50.99
2479.20	-51.84	-53.54	10.68	-8.98	-13.00	-38.84

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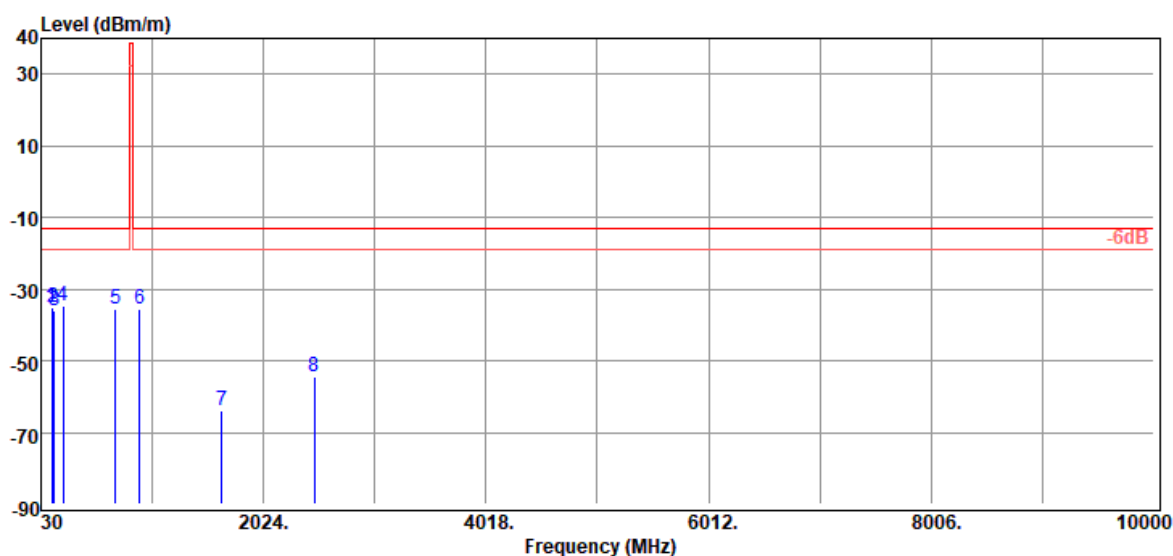
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Report Number :E2/2019/90045  
Operation Mode :WCDMA B5  
Test Mode :TX CH LOW  
EUT Pol :E2 Plan  
Test Channel :826.4 MHz

Test Date :2019-11-08  
Temp./Humi. :23.3/66  
Antenna Pol. :HORIZONTAL  
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
124.09	-35.32	-30.86	-2.95	-1.51	-13.00	-22.32
136.70	-35.13	-31.97	-1.53	-1.63	-13.00	-22.13
146.40	-35.87	-34.10	-0.13	-1.64	-13.00	-22.87
226.91	-34.63	-36.49	4.02	-2.16	-13.00	-21.63
694.45	-35.66	-36.44	5.04	-4.26	-13.00	-22.66
916.58	-35.59	-36.31	5.51	-4.79	-13.00	-22.59
1652.80	-64.06	-65.25	8.71	-7.52	-13.00	-51.06
2479.20	-54.60	-56.30	10.68	-8.98	-13.00	-41.60

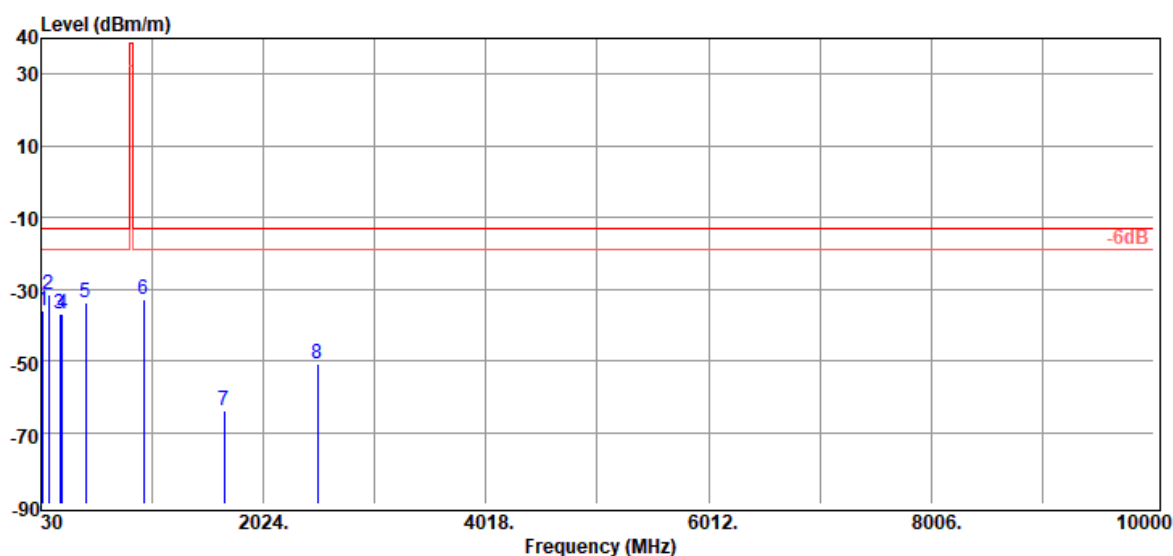
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Report Number :E2/2019/90045  
Operation Mode :WCDMA B5  
Test Mode :TX CH MID  
EUT Pol :E2 Plan  
Test Channel :836.6 MHz

Test Date :2019-11-08  
Temp./Humi. :23.3/66  
Antenna Pol. :VERTICAL  
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
50.37	-36.14	-28.45	-6.85	-0.84	-13.00	-23.14
100.81	-31.31	-26.65	-3.35	-1.31	-13.00	-18.31
197.81	-36.97	-38.65	3.68	-2.00	-13.00	-23.97
218.18	-37.05	-39.29	4.38	-2.14	-13.00	-24.05
431.58	-33.88	-34.57	3.76	-3.07	-13.00	-20.88
949.56	-32.69	-33.33	5.41	-4.77	-13.00	-19.69
1673.20	-63.94	-65.08	8.79	-7.65	-13.00	-50.94
2509.80	-51.08	-52.77	10.71	-9.02	-13.00	-38.08

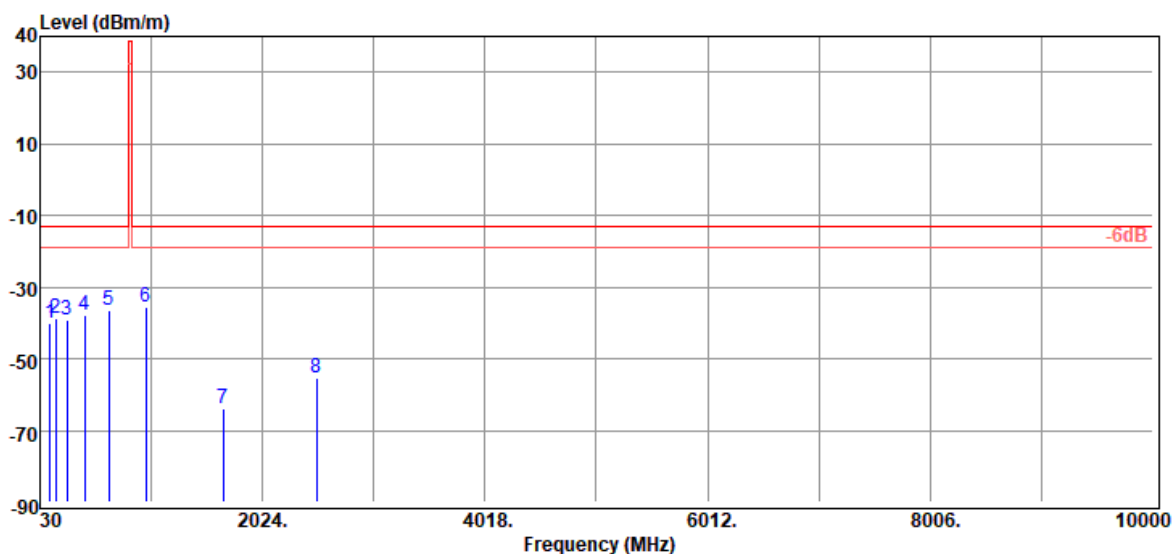
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Report Number :E2/2019/90045  
Operation Mode :WCDMA B5  
Test Mode :TX CH MID  
EUT Pol :E2 Plan  
Test Channel :836.6 MHz

Test Date :2019-11-08  
Temp./Humi. :23.3/66  
Antenna Pol. :HORIZONTAL  
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
117.30	-39.88	-35.20	-3.26	-1.42	-13.00	-26.88
170.65	-38.87	-39.73	2.57	-1.71	-13.00	-25.87
274.44	-39.10	-40.03	3.23	-2.30	-13.00	-26.10
429.64	-37.77	-38.38	3.71	-3.10	-13.00	-24.77
648.86	-36.41	-37.14	4.53	-3.80	-13.00	-23.41
981.57	-35.65	-36.03	5.26	-4.88	-13.00	-22.65
1673.20	-63.91	-65.05	8.79	-7.65	-13.00	-50.91
2509.80	-55.47	-57.16	10.71	-9.02	-13.00	-42.47

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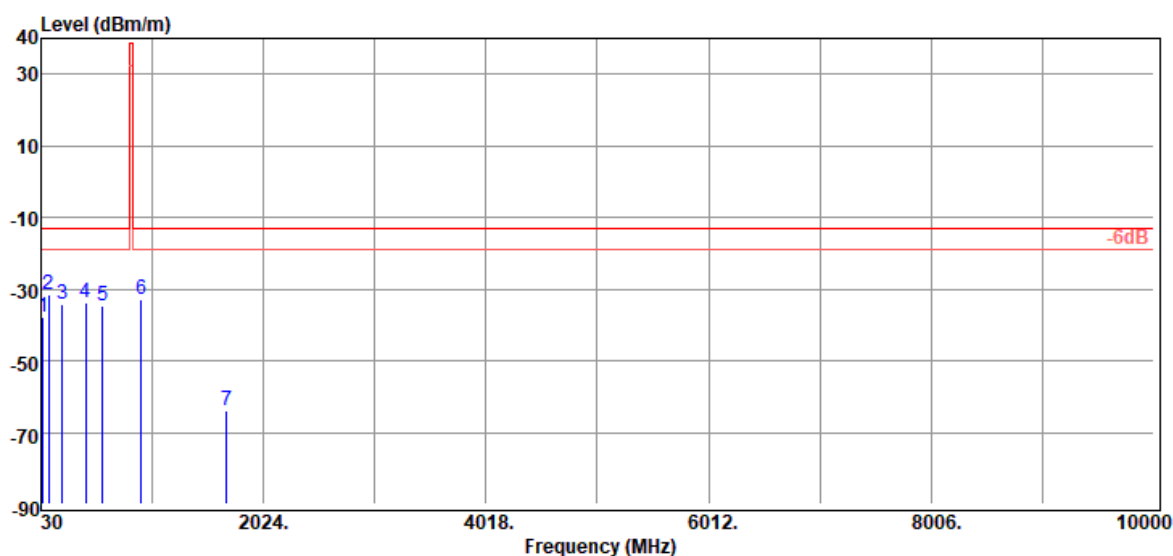
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Report Number :E2/2019/90045  
Operation Mode :WCDMA B5  
Test Mode :TX CH HIGH  
EUT Pol :E2 Plan  
Test Channel :846.6 MHz

Test Date :2019-11-08  
Temp./Humi. :23.3/66  
Antenna Pol. :VERTICAL  
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
51.34	-37.64	-30.49	-6.30	-0.85	-13.00	-24.64
100.81	-31.35	-26.69	-3.35	-1.31	-13.00	-18.35
223.03	-34.29	-36.31	4.18	-2.16	-13.00	-21.29
427.70	-33.92	-34.41	3.59	-3.10	-13.00	-20.92
582.90	-34.68	-35.27	4.31	-3.72	-13.00	-21.68
930.16	-32.81	-33.38	5.43	-4.86	-13.00	-19.81
1693.20	-63.80	-64.89	8.87	-7.78	-13.00	-50.80

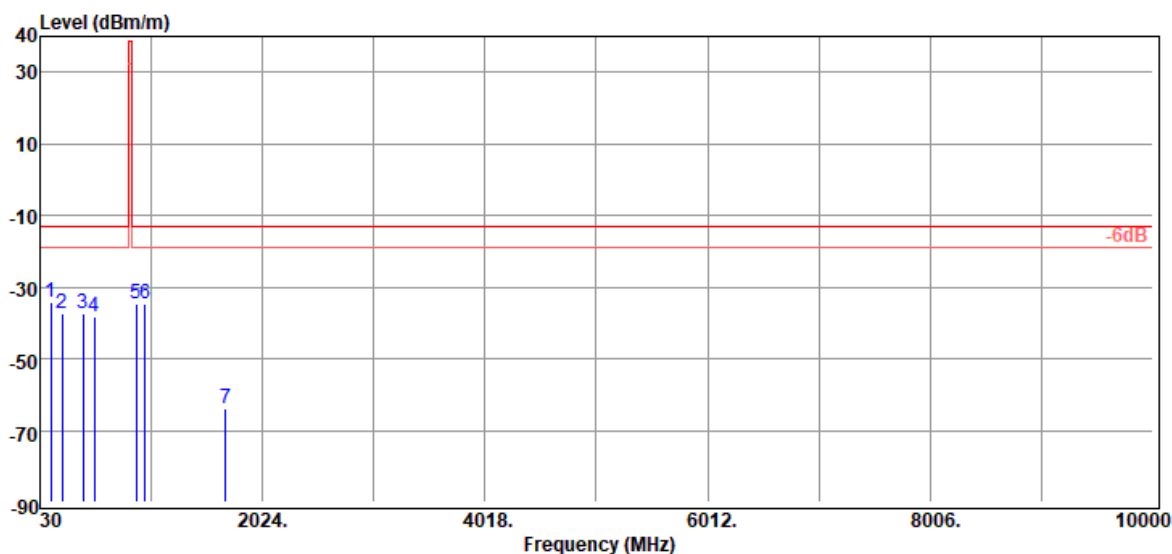
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Report Number :E2/2019/90045  
Operation Mode :WCDMA B5  
Test Mode :TX CH HIGH  
EUT Pol :E2 Plan  
Test Channel :846.6 MHz

Test Date :2019-11-08  
Temp./Humi. :23.3/66  
Antenna Pol. :HORIZONTAL  
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
128.94	-34.29	-30.15	-2.53	-1.61	-13.00	-21.29
231.76	-37.55	-39.20	3.82	-2.17	-13.00	-24.55
414.12	-37.35	-37.26	3.06	-3.15	-13.00	-24.35
519.85	-38.18	-38.82	4.18	-3.54	-13.00	-25.18
893.30	-34.73	-35.40	5.25	-4.58	-13.00	-21.73
973.81	-34.55	-34.81	5.35	-5.09	-13.00	-21.55
1693.20	-63.97	-65.06	8.87	-7.78	-13.00	-50.97

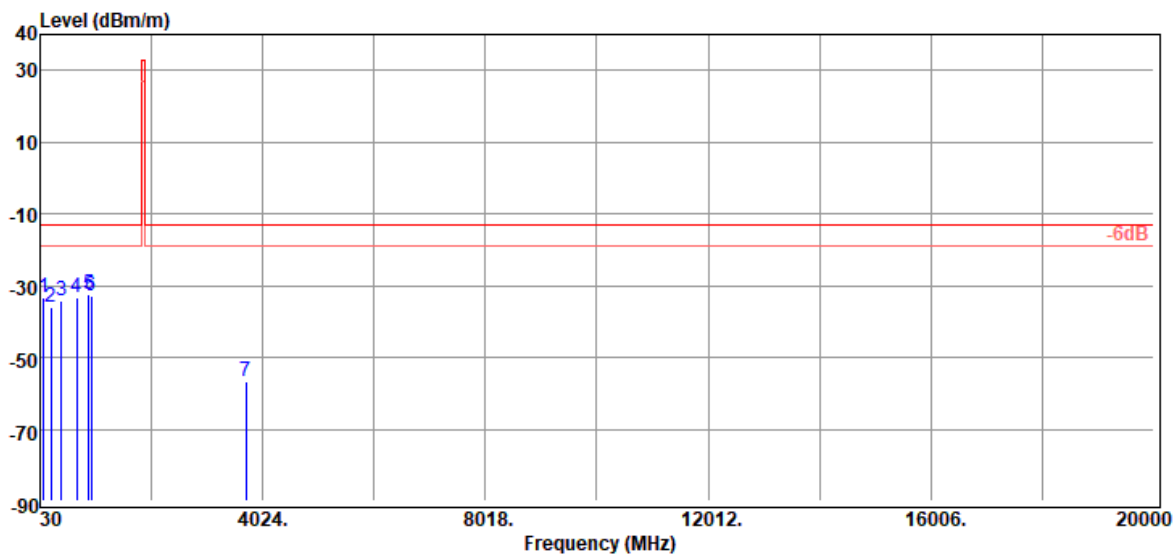
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## Radiated Spurious Emission Measurement Result: LTE-Band 2 (The Worst Case)

Report Number	:E2/2019/90045	Test Date	:2019-11-07
Operation Mode	:LTE B2	Temp./Humi.	:25/60
Test Mode	:TX CH LOW	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plan	Engineer	:Enzo
Test Channel	:1860 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
99.84	-33.41	-28.77	-3.34	-1.30	-13.00	-20.41
227.88	-36.00	-37.82	3.98	-2.16	-13.00	-23.00
407.33	-34.16	-34.24	3.27	-3.19	-13.00	-21.16
685.72	-33.20	-33.96	4.88	-4.12	-13.00	-20.20
906.88	-32.27	-33.00	5.37	-4.64	-13.00	-19.27
954.41	-32.85	-33.33	5.45	-4.97	-13.00	-19.85
3720.00	-56.63	-57.94	12.53	-11.22	-13.00	-43.63

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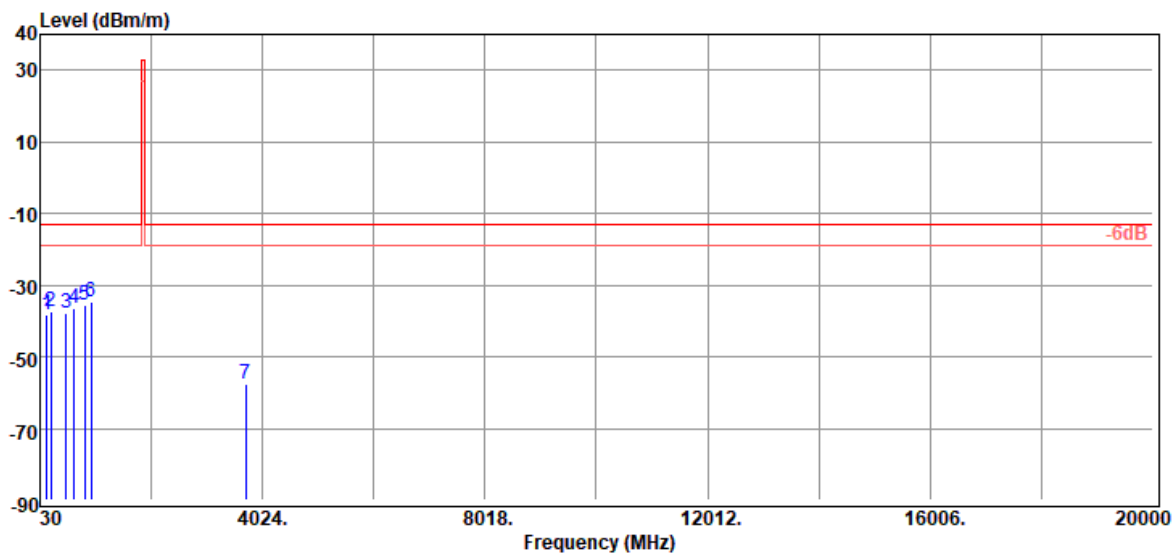
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Report Number :E2/2019/90045  
Operation Mode :LTE B2  
Test Mode :TX CH LOW  
EUT Pol :E2 Plan  
Test Channel :1860 MHz

Test Date :2019-11-07  
Temp./Humi. :25/60  
Antenna Pol. :HORIZONTAL  
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
149.31	-38.20	-36.82	0.27	-1.65	-13.00	-25.20
224.97	-37.47	-39.41	4.10	-2.16	-13.00	-24.47
502.39	-37.97	-38.63	4.14	-3.48	-13.00	-24.97
648.86	-36.66	-37.39	4.53	-3.80	-13.00	-23.66
829.28	-35.67	-36.49	5.33	-4.51	-13.00	-22.67
942.77	-34.85	-35.47	5.39	-4.77	-13.00	-21.85
3720.00	-57.40	-58.71	12.53	-11.22	-13.00	-44.40

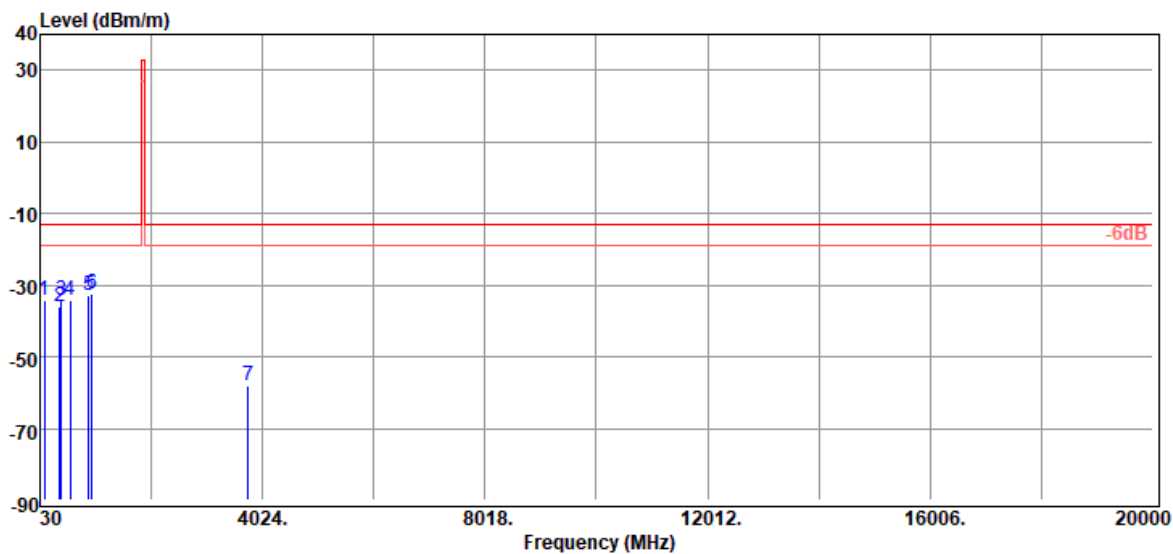
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Report Number :E2/2019/90045  
Operation Mode :LTE B2  
Test Mode :TX CH MID  
EUT Pol :E2 Plan  
Test Channel :1880 MHz

Test Date :2019-11-07  
Temp./Humi. :25/60  
Antenna Pol. :VERTICAL  
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
104.69	-34.34	-29.47	-3.51	-1.36	-13.00	-21.34
382.11	-36.19	-37.14	3.76	-2.81	-13.00	-23.19
410.24	-34.16	-34.18	3.21	-3.19	-13.00	-21.16
571.26	-34.42	-35.23	4.27	-3.46	-13.00	-21.42
898.15	-33.02	-33.68	5.24	-4.58	-13.00	-20.02
955.38	-32.46	-32.91	5.46	-5.01	-13.00	-19.46
3760.00	-58.28	-59.79	12.56	-11.05	-13.00	-45.28

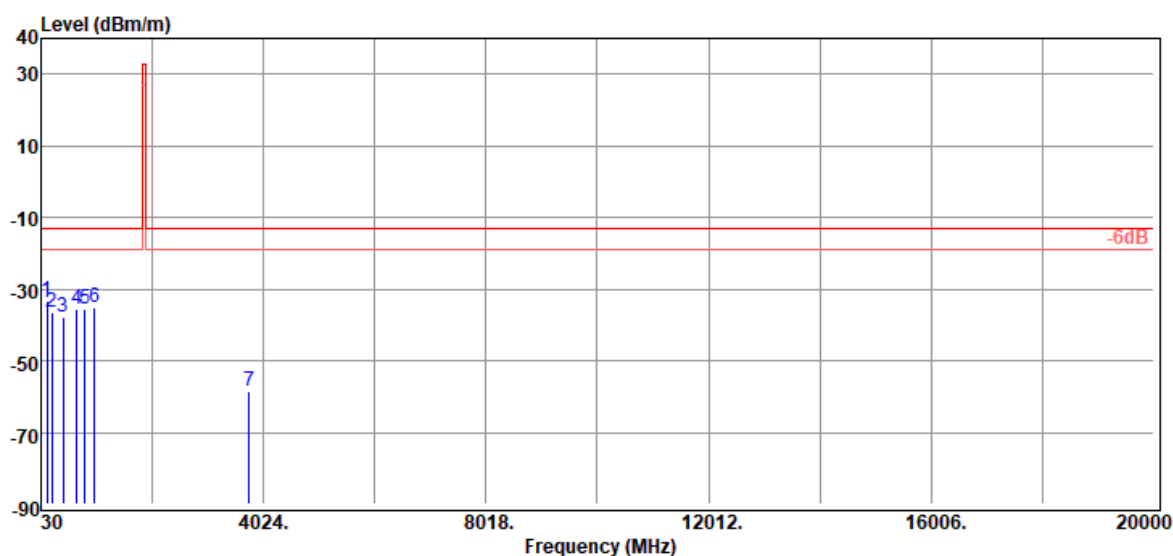
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Report Number :E2/2019/90045  
Operation Mode :LTE B2  
Test Mode :TX CH MID  
EUT Pol :E2 Plan  
Test Channel :1880 MHz

Test Date :2019-11-07  
Temp./Humi. :25/60  
Antenna Pol. :HORIZONTAL  
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
142.52	-33.49	-31.20	-0.65	-1.64	-13.00	-20.49
229.82	-36.29	-38.03	3.90	-2.16	-13.00	-23.29
424.79	-37.91	-38.23	3.42	-3.10	-13.00	-24.91
671.17	-35.77	-36.51	4.67	-3.93	-13.00	-22.77
814.73	-35.44	-36.58	5.48	-4.34	-13.00	-22.44
989.33	-34.98	-35.54	5.44	-4.88	-13.00	-21.98
3760.00	-58.40	-59.91	12.56	-11.05	-13.00	-45.40

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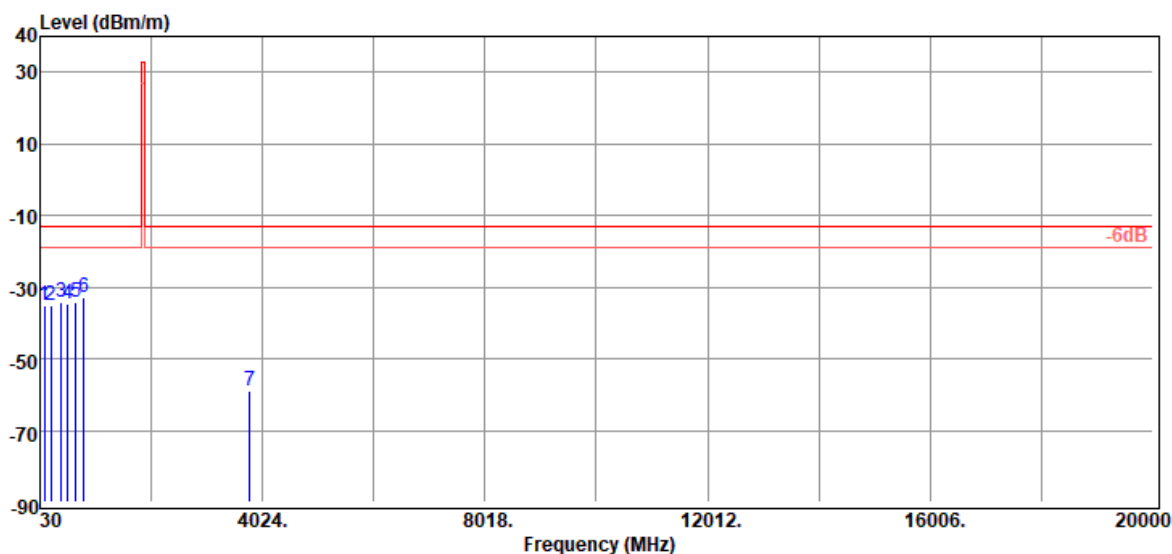
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Report Number :E2/2019/90045  
Operation Mode :LTE B2  
Test Mode :TX CH HIGH  
EUT Pol :E2 Plan  
Test Channel :1900 MHz

Test Date :2019-11-07  
Temp./Humi. :25/60  
Antenna Pol. :VERTICAL  
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
102.75	-34.93	-30.20	-3.40	-1.33	-13.00	-21.93
226.91	-35.09	-36.95	4.02	-2.16	-13.00	-22.09
412.18	-34.01	-33.97	3.13	-3.17	-13.00	-21.01
533.43	-34.47	-35.43	4.17	-3.21	-13.00	-21.47
669.23	-34.00	-34.75	4.67	-3.92	-13.00	-21.00
812.79	-33.05	-34.23	5.46	-4.28	-13.00	-20.05
3800.00	-58.85	-60.54	12.58	-10.89	-13.00	-45.85

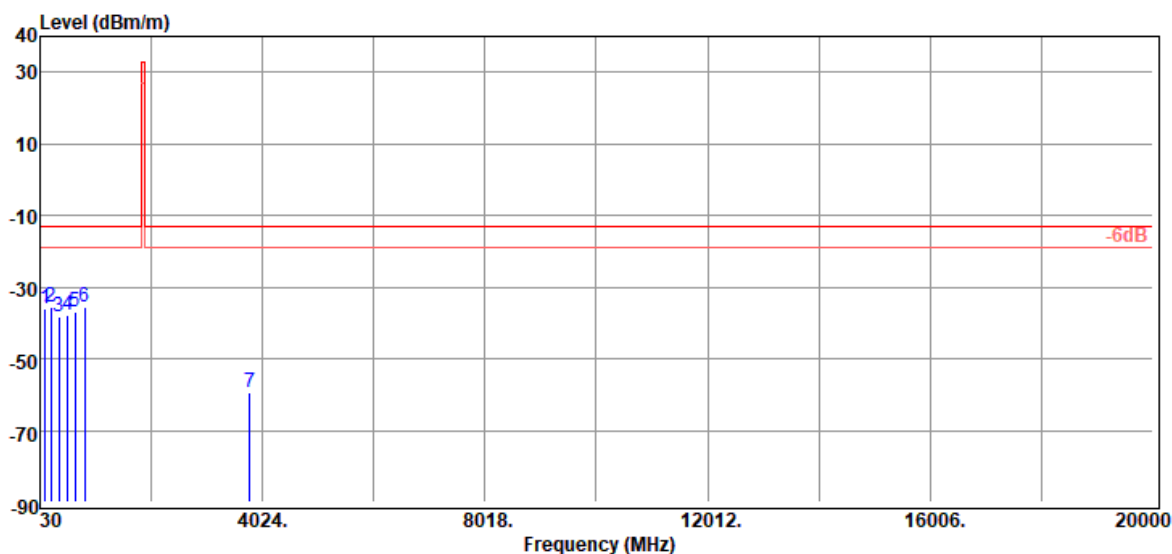
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Report Number :E2/2019/90045  
Operation Mode :LTE B2  
Test Mode :TX CH HIGH  
EUT Pol :E2 Plan  
Test Channel :1900 MHz

Test Date :2019-11-07  
Temp./Humi. :25/60  
Antenna Pol. :HORIZONTAL  
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
127.97	-35.93	-31.84	-2.50	-1.59	-13.00	-22.93
224.97	-35.45	-37.39	4.10	-2.16	-13.00	-22.45
373.38	-38.05	-38.89	3.70	-2.86	-13.00	-25.05
522.76	-37.96	-38.68	4.17	-3.45	-13.00	-24.96
665.35	-36.95	-37.72	4.62	-3.85	-13.00	-23.95
834.13	-35.62	-36.49	5.38	-4.51	-13.00	-22.62
3800.00	-59.55	-61.24	12.58	-10.89	-13.00	-46.55

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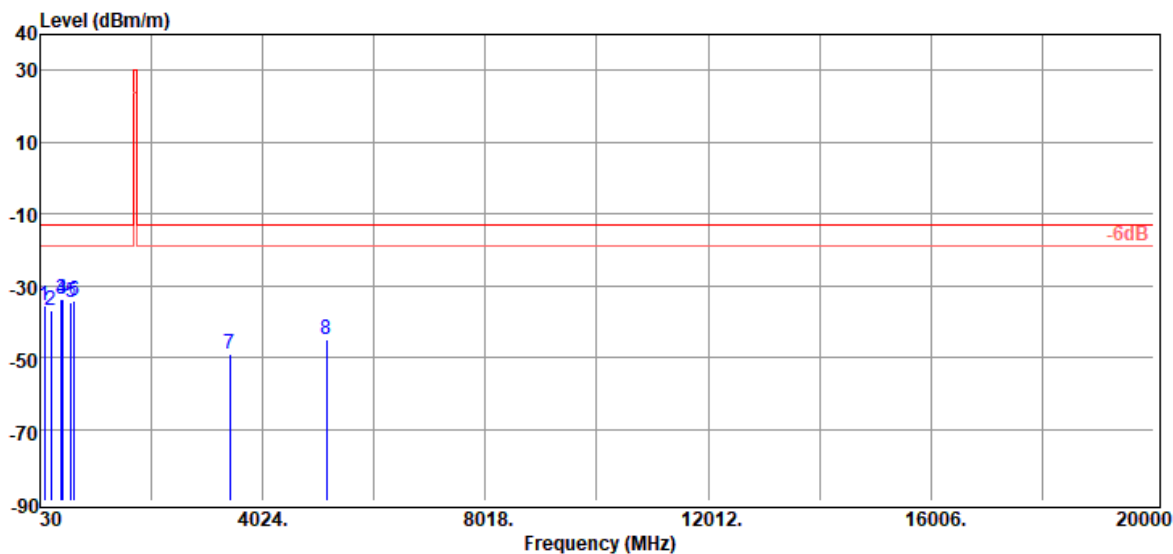
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## Radiated Spurious Emission Measurement Result: LTE-Band 4 (The Worst Case)

Report Number :E2/2019/90045  
Operation Mode :LTE B4  
Test Mode :TX CH LOW  
EUT Pol :E2 Plan  
Test Channel :1720 MHz

Test Date :2019-11-07  
Temp./Humi. :25/60  
Antenna Pol. :VERTICAL  
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
108.57	-35.50	-30.56	-3.54	-1.40	-13.00	-22.50
222.06	-37.00	-39.06	4.22	-2.16	-13.00	-24.00
407.33	-33.91	-33.99	3.27	-3.19	-13.00	-20.91
425.76	-33.98	-34.36	3.48	-3.10	-13.00	-20.98
583.87	-34.50	-35.09	4.31	-3.72	-13.00	-21.50
646.92	-34.22	-34.90	4.54	-3.86	-13.00	-21.22
3440.00	-49.16	-50.26	12.26	-11.16	-13.00	-36.16
5160.00	-44.80	-45.75	12.79	-11.84	-13.00	-31.80

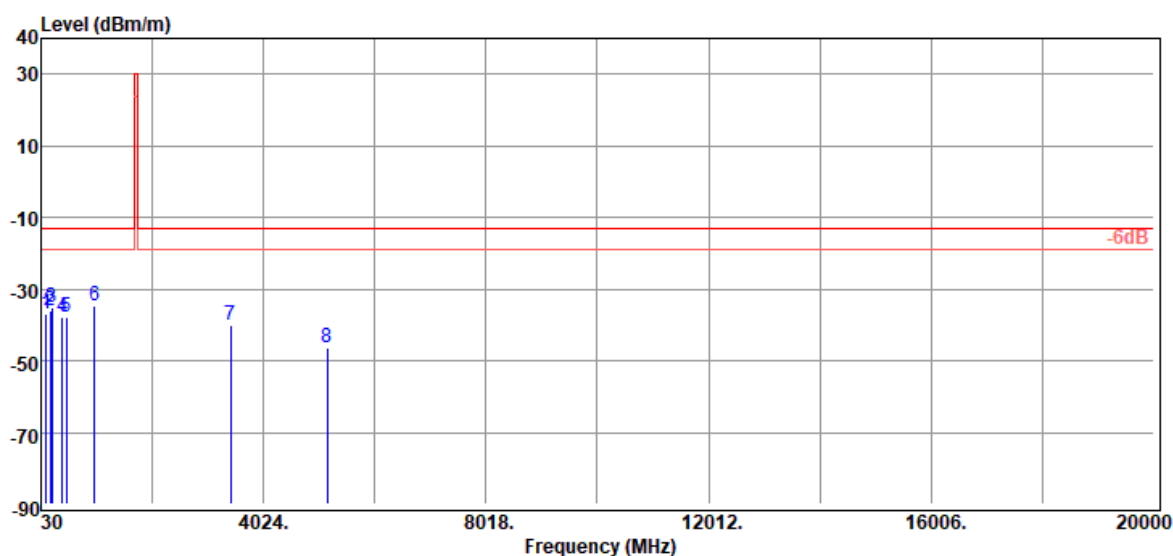
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Report Number :E2/2019/90045  
Operation Mode :LTE B4  
Test Mode :TX CH LOW  
EUT Pol :E2 Plan  
Test Channel :1720 MHz

Test Date :2019-11-07  
Temp./Humi. :25/60  
Antenna Pol. :HORIZONTAL  
Engineer :Enzo



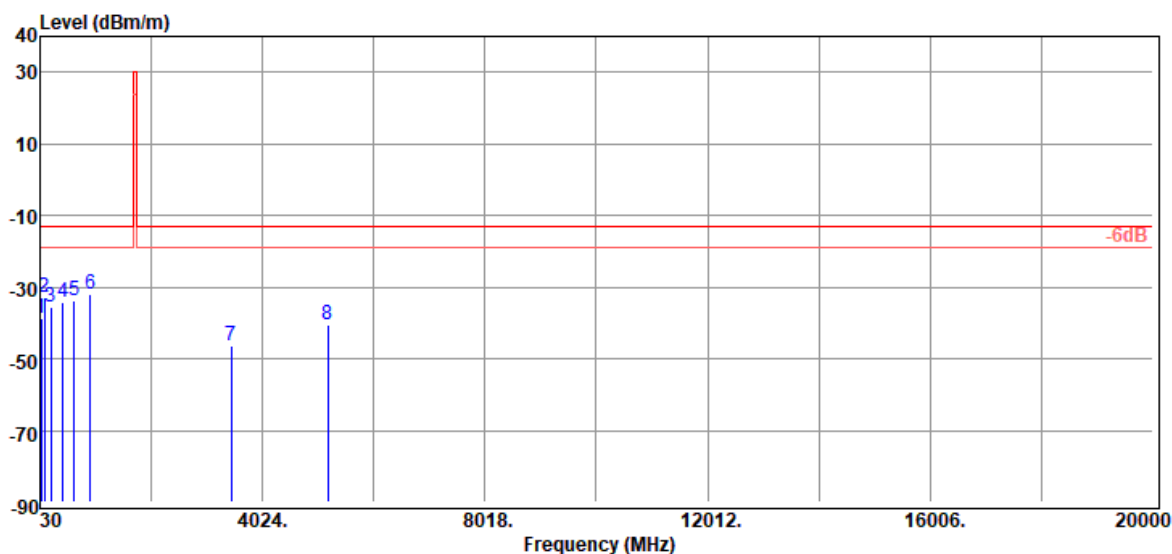
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
128.94	-36.72	-32.58	-2.53	-1.61	-13.00	-23.72
191.02	-35.98	-38.00	3.88	-1.86	-13.00	-22.98
221.09	-35.14	-37.24	4.26	-2.16	-13.00	-22.14
418.00	-37.68	-37.70	3.14	-3.12	-13.00	-24.68
480.08	-37.80	-38.80	4.08	-3.08	-13.00	-24.80
992.24	-34.65	-35.23	5.49	-4.91	-13.00	-21.65
3440.00	-39.92	-41.02	12.26	-11.16	-13.00	-26.92
5160.00	-46.20	-47.15	12.79	-11.84	-13.00	-33.20

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Report Number :E2/2019/90045  
Operation Mode :LTE B4  
Test Mode :TX CH MID  
EUT Pol :E2 Plan  
Test Channel :1732.5 MHz

Test Date :2019-11-07  
Temp./Humi. :25/60  
Antenna Pol. :VERTICAL  
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
50.37	-38.91	-31.22	-6.85	-0.84	-13.00	-25.91
102.75	-32.68	-27.95	-3.40	-1.33	-13.00	-19.68
227.88	-35.69	-37.51	3.98	-2.16	-13.00	-22.69
447.10	-34.24	-35.42	4.07	-2.89	-13.00	-21.24
644.98	-33.79	-34.41	4.55	-3.93	-13.00	-20.79
933.07	-32.00	-32.63	5.46	-4.83	-13.00	-19.00
3465.00	-46.58	-47.90	12.32	-11.00	-13.00	-33.58
5197.50	-40.65	-41.53	12.84	-11.96	-13.00	-27.65

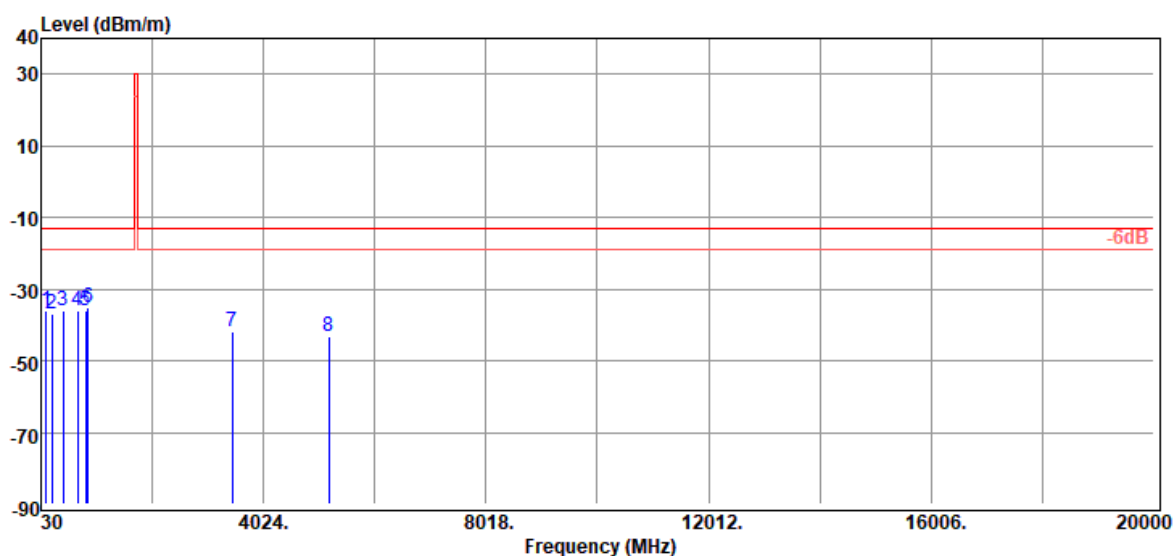
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Report Number :E2/2019/90045  
Operation Mode :LTE B4  
Test Mode :TX CH MID  
EUT Pol :E2 Plan  
Test Channel :1732.5 MHz

Test Date :2019-11-07  
Temp./Humi. :25/60  
Antenna Pol. :HORIZONTAL  
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
129.91	-35.81	-31.80	-2.38	-1.63	-13.00	-22.81
230.79	-36.72	-38.42	3.86	-2.16	-13.00	-23.72
433.52	-36.24	-37.01	3.80	-3.03	-13.00	-23.24
681.84	-36.08	-36.92	4.83	-3.99	-13.00	-23.08
830.25	-35.80	-36.63	5.34	-4.51	-13.00	-22.80
872.93	-34.97	-35.35	5.28	-4.90	-13.00	-21.97
3465.00	-41.83	-43.15	12.32	-11.00	-13.00	-28.83
5197.50	-43.09	-43.97	12.84	-11.96	-13.00	-30.09

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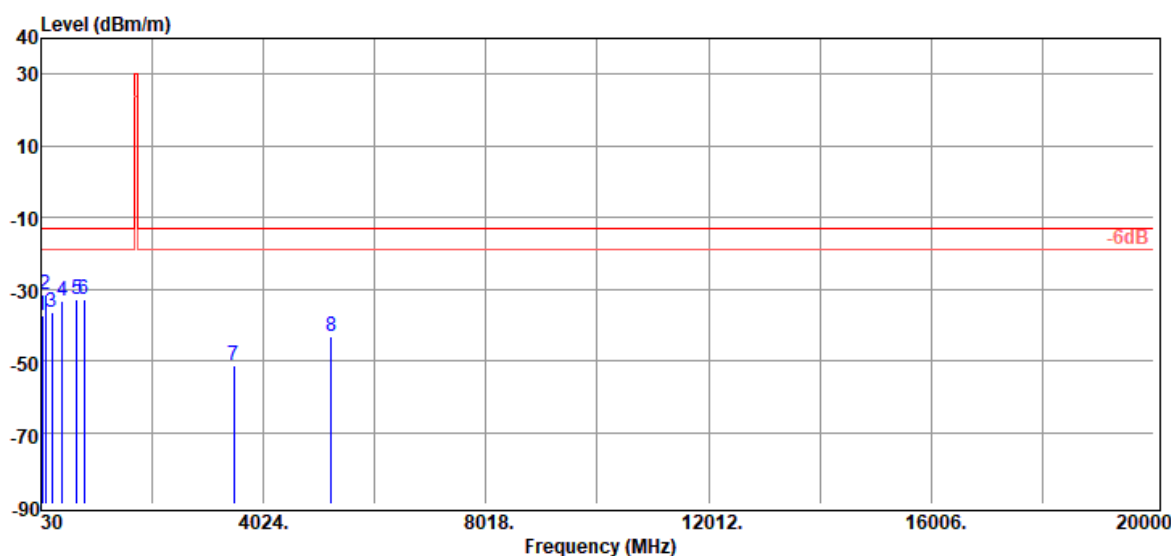
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Report Number :E2/2019/90045  
Operation Mode :LTE B4  
Test Mode :TX CH HIGH  
EUT Pol :E2 Plan  
Test Channel :1745 MHz

Test Date :2019-11-07  
Temp./Humi. :25/60  
Antenna Pol. :VERTICAL  
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
50.37	-37.30	-29.61	-6.85	-0.84	-13.00	-24.30
103.72	-31.41	-26.60	-3.47	-1.34	-13.00	-18.41
222.06	-36.46	-38.52	4.22	-2.16	-13.00	-23.46
418.97	-33.44	-33.51	3.18	-3.11	-13.00	-20.44
678.93	-33.04	-33.89	4.78	-3.93	-13.00	-20.04
798.24	-32.70	-33.81	5.37	-4.26	-13.00	-19.70
3490.00	-51.27	-52.81	12.38	-10.84	-13.00	-38.27
5235.00	-43.05	-44.05	12.88	-11.88	-13.00	-30.05

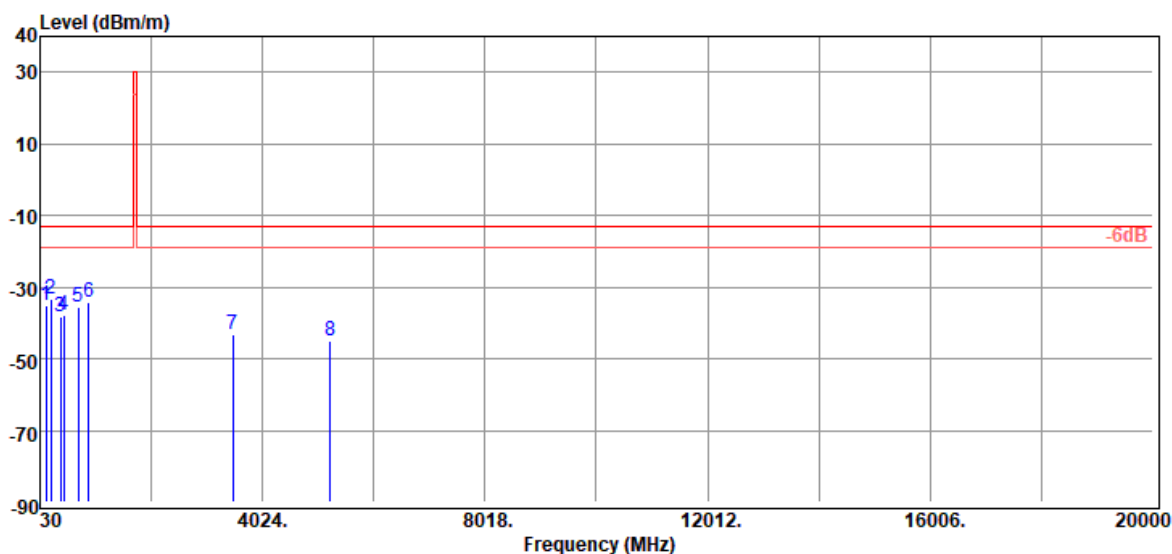
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Report Number :E2/2019/90045  
Operation Mode :LTE B4  
Test Mode :TX CH HIGH  
EUT Pol :E2 Plan  
Test Channel :1745 MHz

Test Date :2019-11-07  
Temp./Humi. :25/60  
Antenna Pol. :HORIZONTAL  
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
133.79	-35.17	-31.65	-1.89	-1.63	-13.00	-22.17
224.97	-33.24	-35.18	4.10	-2.16	-13.00	-20.24
394.72	-38.06	-38.76	3.69	-2.99	-13.00	-25.06
450.98	-37.84	-39.02	4.12	-2.94	-13.00	-24.84
715.79	-35.61	-36.98	5.24	-3.87	-13.00	-22.61
910.76	-34.31	-34.99	5.36	-4.68	-13.00	-21.31
3490.00	-43.42	-44.96	12.38	-10.84	-13.00	-30.42
5235.00	-45.14	-46.14	12.88	-11.88	-13.00	-32.14

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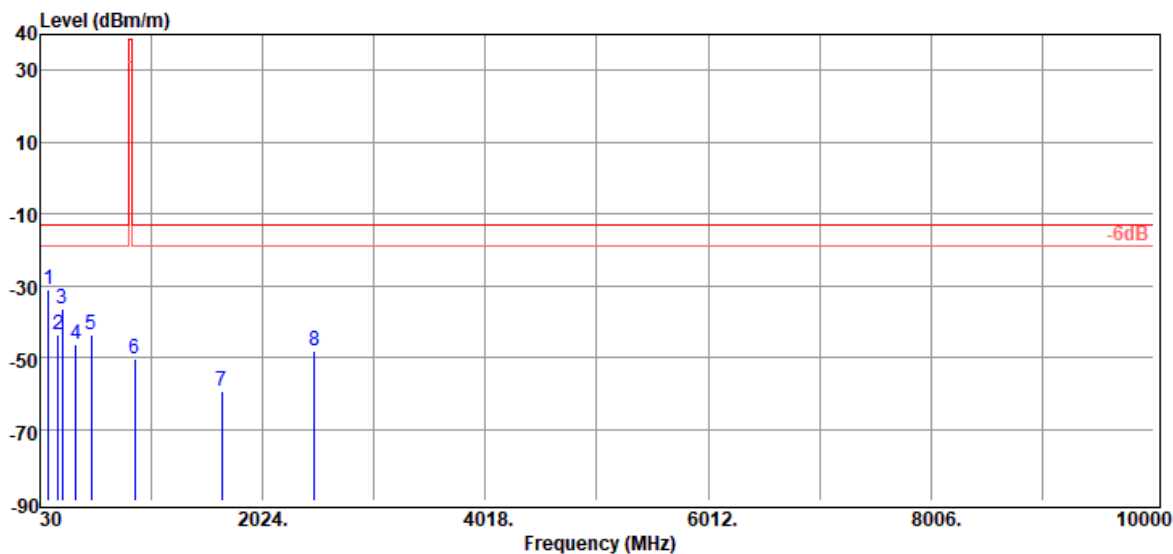
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## Radiated Spurious Emission Measurement Result: LTE-Band 5 (The Worst Case)

Report Number :E2/2019/90045  
Operation Mode :LTE B5  
Test Mode :TX CH LOW  
EUT Pol :E2 Plan  
Test Channel :829 MHz

Test Date :2019-11-11  
Temp./Humi. :22.7/66  
Antenna Pol. :VERTICAL  
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
102.75	-30.89	-26.16	-3.40	-1.33	-13.00	-17.89
191.02	-43.55	-45.57	3.88	-1.86	-13.00	-30.55
225.94	-36.29	-38.19	4.06	-2.16	-13.00	-23.29
353.01	-46.34	-47.32	3.53	-2.55	-13.00	-33.34
487.84	-43.73	-44.47	4.12	-3.38	-13.00	-30.73
876.81	-50.28	-50.66	5.28	-4.90	-13.00	-37.28
1658.00	-59.36	-60.54	8.73	-7.55	-13.00	-46.36
2487.00	-47.98	-49.67	10.68	-8.99	-13.00	-34.98

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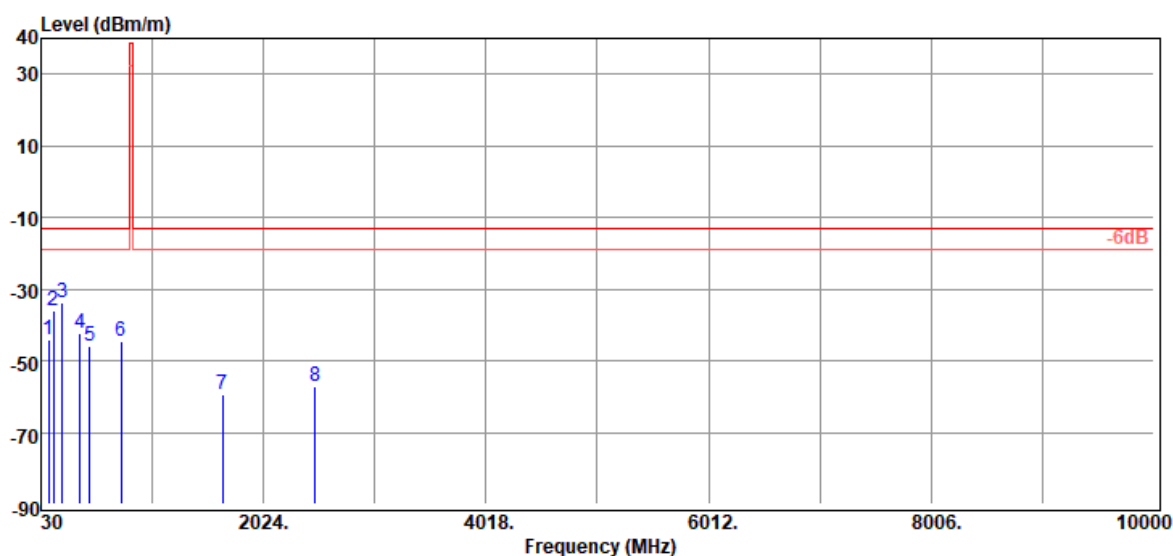
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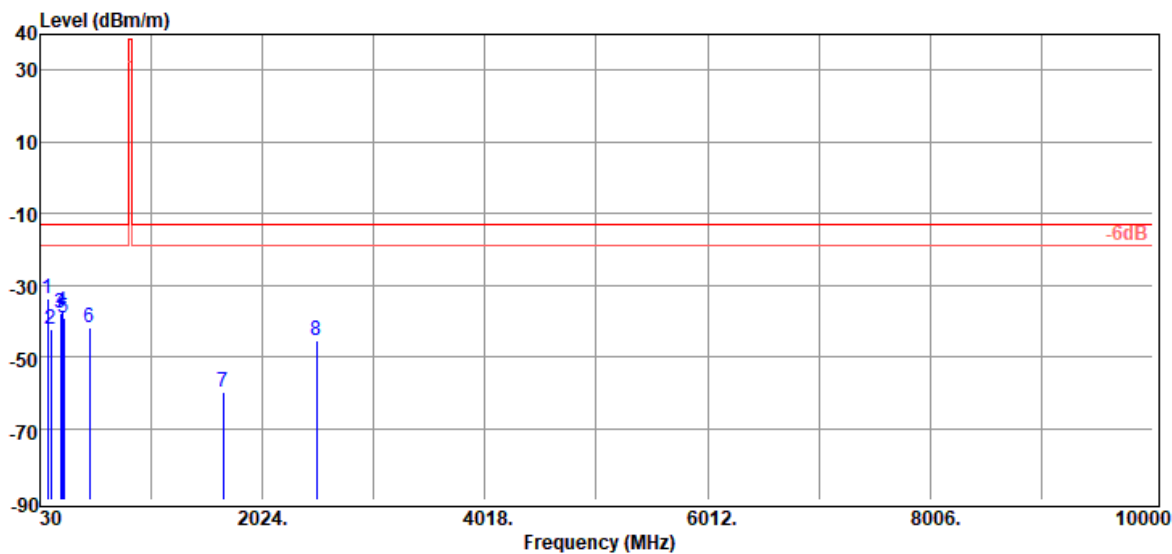
Report Number :E2/2019/90045  
Operation Mode :LTE B5  
Test Mode :TX CH LOW  
EUT Pol :E2 Plan  
Test Channel :829 MHz

Test Date :2019-11-11  
Temp./Humi. :22.7/66  
Antenna Pol. :HORIZONTAL  
Engineer :Enzo



Report Number :E2/2019/90045  
Operation Mode :LTE B5  
Test Mode :TX CH MID  
EUT Pol :E2 Plan  
Test Channel :836.5 MHz

Test Date :2019-11-11  
Temp./Humi. :22.7/66  
Antenna Pol. :VERTICAL  
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
98.87	-33.71	-29.13	-3.30	-1.28	-13.00	-20.71
126.03	-42.16	-37.88	-2.73	-1.55	-13.00	-29.16
217.21	-37.73	-40.02	4.42	-2.13	-13.00	-24.73
230.79	-37.51	-39.21	3.86	-2.16	-13.00	-24.51
246.31	-39.10	-39.98	3.08	-2.20	-13.00	-26.10
475.23	-41.95	-42.86	3.99	-3.08	-13.00	-28.95
1673.00	-59.83	-60.97	8.79	-7.65	-13.00	-46.83
2509.50	-45.53	-47.22	10.71	-9.02	-13.00	-32.53

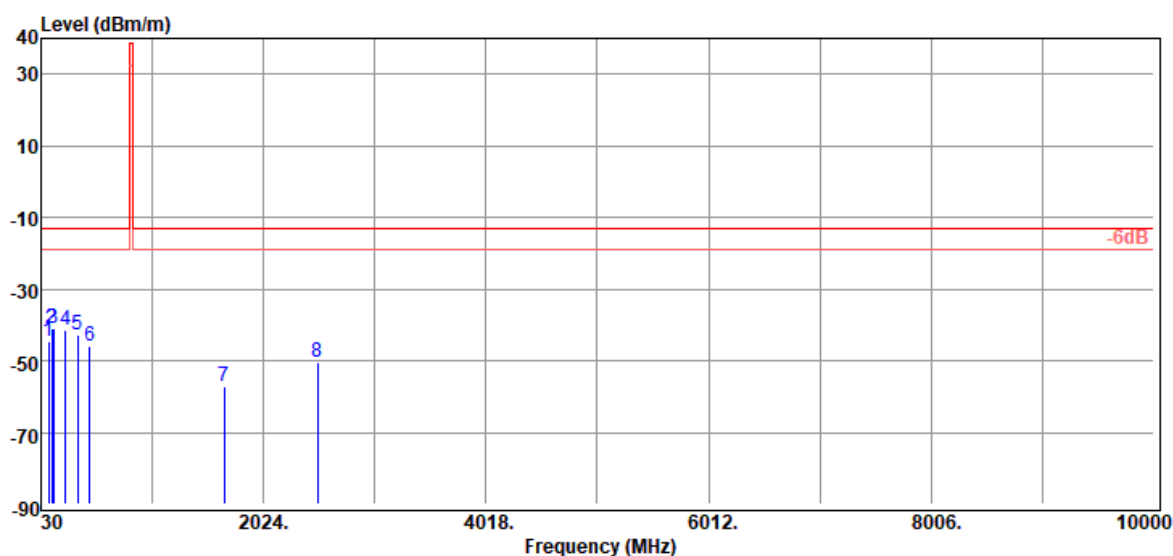
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Report Number :E2/2019/90045  
Operation Mode :LTE B5  
Test Mode :TX CH MID  
EUT Pol :E2 Plan  
Test Channel :836.5 MHz

Test Date :2019-11-11  
Temp./Humi. :22.7/66  
Antenna Pol. :HORIZONTAL  
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
96.93	-44.48	-40.14	-3.09	-1.25	-13.00	-31.48
130.88	-40.97	-37.04	-2.30	-1.63	-13.00	-27.97
140.58	-40.81	-38.25	-0.93	-1.63	-13.00	-27.81
249.22	-41.42	-42.17	2.95	-2.20	-13.00	-28.42
360.77	-42.71	-43.64	3.51	-2.58	-13.00	-29.71
465.53	-46.00	-46.89	4.10	-3.21	-13.00	-33.00
1673.00	-57.02	-58.16	8.79	-7.65	-13.00	-44.02
2509.50	-50.43	-52.12	10.71	-9.02	-13.00	-37.43

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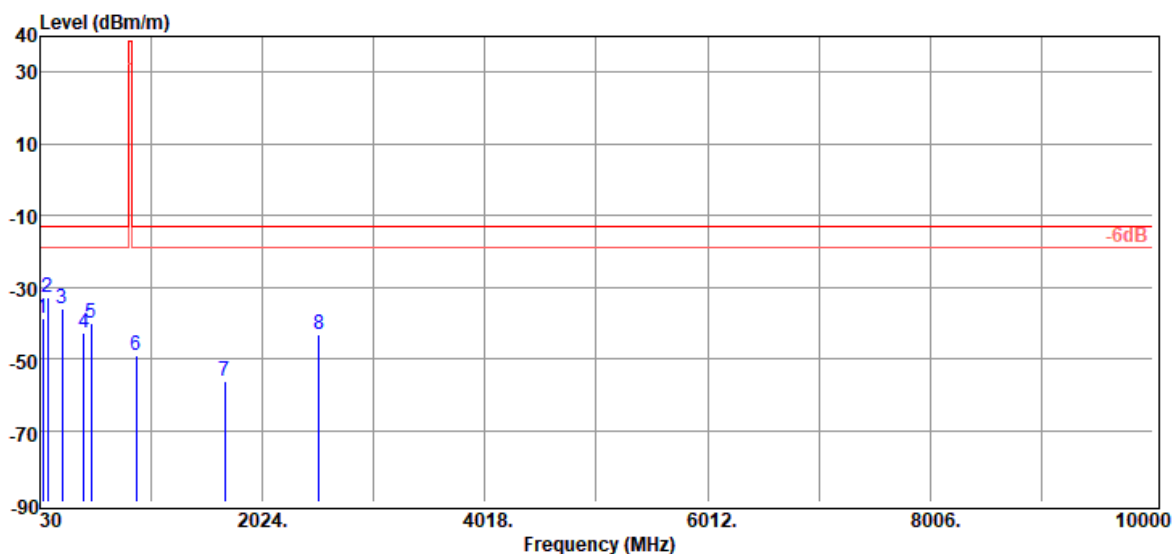
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Report Number :E2/2019/90045  
Operation Mode :LTE B5  
Test Mode :TX CH HIGH  
EUT Pol :E2 Plan  
Test Channel :844 MHz

Test Date :2019-11-11  
Temp./Humi. :22.7/66  
Antenna Pol. :VERTICAL  
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
55.22	-38.62	-33.27	-4.45	-0.90	-13.00	-25.62
99.84	-32.94	-28.30	-3.34	-1.30	-13.00	-19.94
228.85	-36.06	-37.84	3.94	-2.16	-13.00	-23.06
420.91	-42.77	-42.93	3.26	-3.10	-13.00	-29.77
485.90	-40.10	-40.89	4.09	-3.30	-13.00	-27.10
891.36	-49.23	-49.90	5.25	-4.58	-13.00	-36.23
1688.00	-56.38	-57.49	8.85	-7.74	-13.00	-43.38
2532.00	-43.33	-45.02	10.73	-9.04	-13.00	-30.33

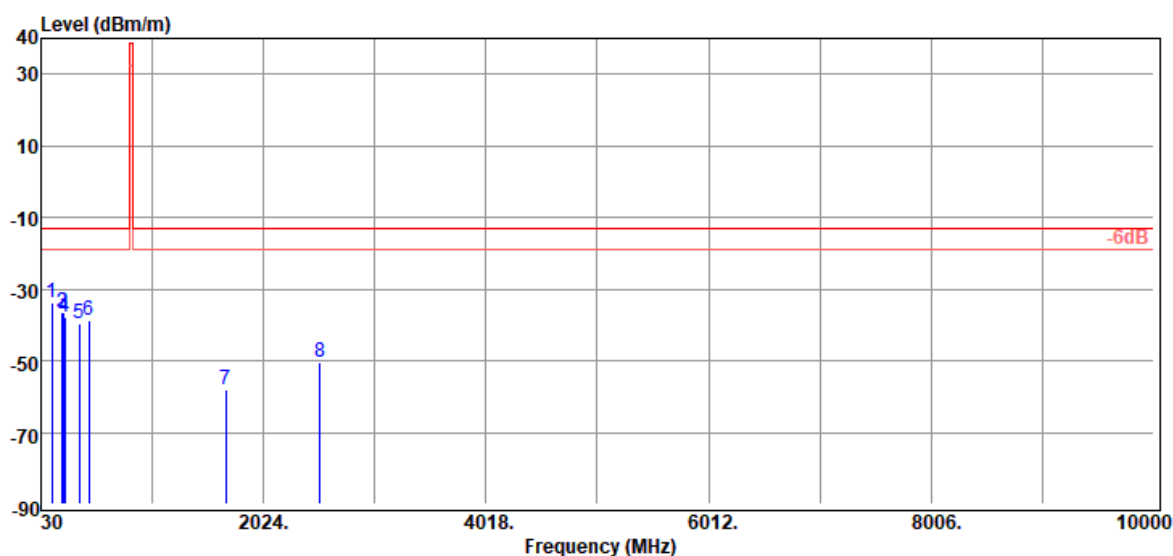
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Report Number :E2/2019/90045  
Operation Mode :LTE B5  
Test Mode :TX CH HIGH  
EUT Pol :E2 Plan  
Test Channel :844 MHz

Test Date :2019-11-11  
Temp./Humi. :22.7/66  
Antenna Pol. :HORIZONTAL  
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
127.00	-33.87	-29.64	-2.66	-1.57	-13.00	-20.87
219.15	-36.47	-38.66	4.34	-2.15	-13.00	-23.47
227.88	-36.67	-38.49	3.98	-2.16	-13.00	-23.67
242.43	-38.00	-39.05	3.25	-2.20	-13.00	-25.00
374.35	-39.84	-40.71	3.72	-2.85	-13.00	-26.84
457.77	-38.81	-39.67	4.12	-3.26	-13.00	-25.81
1688.00	-58.27	-59.38	8.85	-7.74	-13.00	-45.27
2532.00	-50.54	-52.23	10.73	-9.04	-13.00	-37.54

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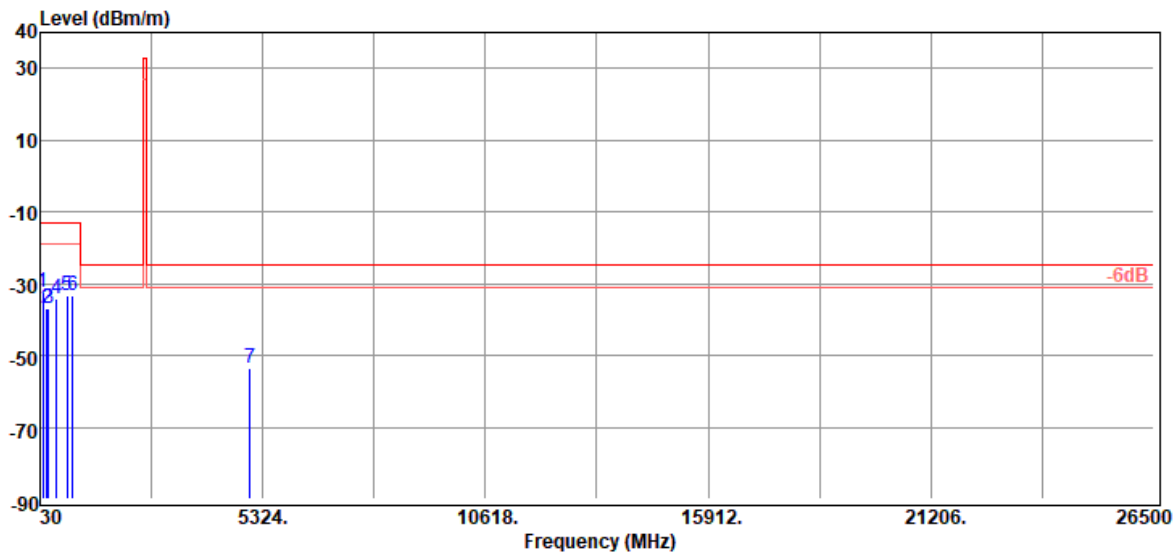
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## Radiated Spurious Emission Measurement Result: LTE-Band 7 (The Worst Case)

Report Number :E2/2019/90045  
Operation Mode :LTE B7  
Test Mode :TX CH LOW  
EUT Pol :E2 Plan  
Test Channel :2510 MHz

Test Date :2019-11-07  
Temp./Humi. :25/60  
Antenna Pol. :VERTICAL  
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
104.69	-32.56	-27.69	-3.51	-1.36	-13.00	-19.56
197.81	-37.02	-38.70	3.68	-2.00	-13.00	-24.02
222.06	-37.11	-39.17	4.22	-2.16	-13.00	-24.11
418.97	-34.03	-34.10	3.18	-3.11	-13.00	-21.03
680.87	-33.22	-34.08	4.82	-3.96	-13.00	-20.22
800.18	-33.20	-34.43	5.42	-4.19	-13.00	-20.20
5020.00	-53.75	-54.94	12.62	-11.43	-25.00	-28.75

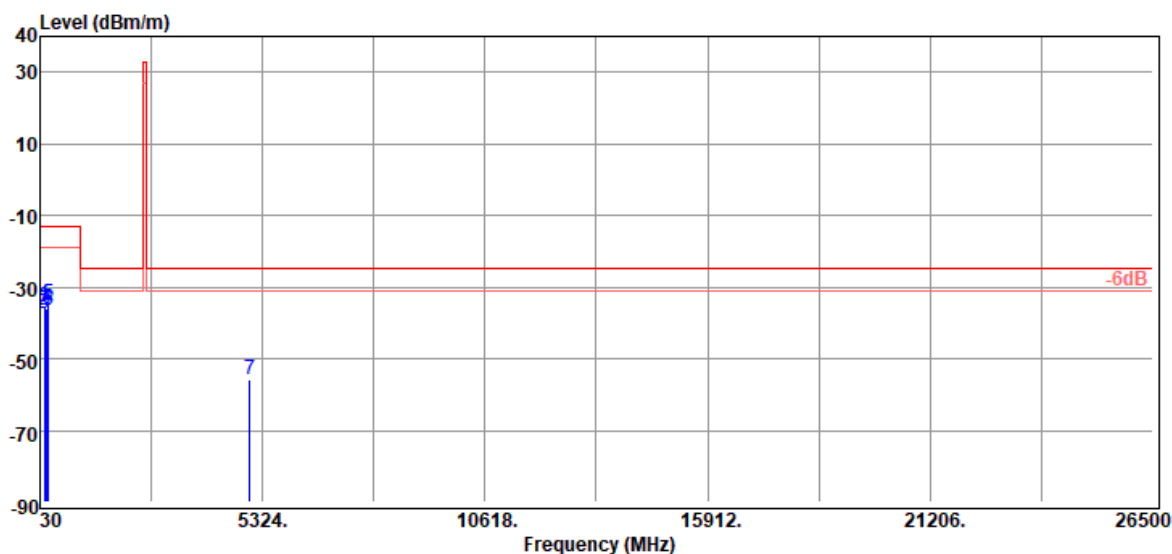
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Report Number :E2/2019/90045  
Operation Mode :LTE B7  
Test Mode :TX CH LOW  
EUT Pol :E2 Plan  
Test Channel :2510 MHz

Test Date :2019-11-07  
Temp./Humi. :25/60  
Antenna Pol. :HORIZONTAL  
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
126.03	-35.25	-30.97	-2.73	-1.55	-13.00	-22.25
133.79	-36.69	-33.17	-1.89	-1.63	-13.00	-23.69
143.49	-37.15	-35.01	-0.50	-1.64	-13.00	-24.15
188.11	-35.80	-37.93	3.95	-1.82	-13.00	-22.80
224.00	-34.72	-36.70	4.14	-2.16	-13.00	-21.72
236.61	-36.51	-37.90	3.58	-2.19	-13.00	-23.51
5020.00	-55.80	-56.99	12.62	-11.43	-25.00	-30.80

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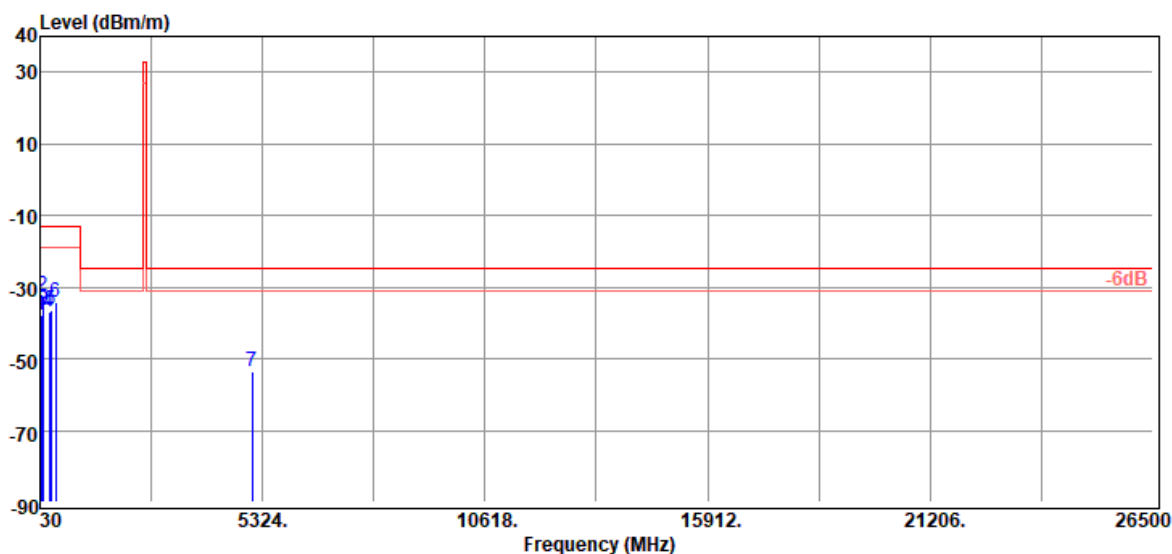
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Report Number :E2/2019/90045  
Operation Mode :LTE B7  
Test Mode :TX CH MID  
EUT Pol :E2 Plan  
Test Channel :2535 MHz

Test Date :2019-11-07  
Temp./Humi. :25/60  
Antenna Pol. :VERTICAL  
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
50.37	-37.87	-30.18	-6.85	-0.84	-13.00	-24.87
101.78	-32.48	-27.72	-3.44	-1.32	-13.00	-19.48
109.54	-36.53	-31.57	-3.55	-1.41	-13.00	-23.53
244.37	-37.05	-38.02	3.17	-2.20	-13.00	-24.05
295.78	-36.45	-37.64	3.67	-2.48	-13.00	-23.45
404.42	-34.03	-34.17	3.33	-3.19	-13.00	-21.03
5070.00	-53.65	-54.76	12.68	-11.57	-25.00	-28.65

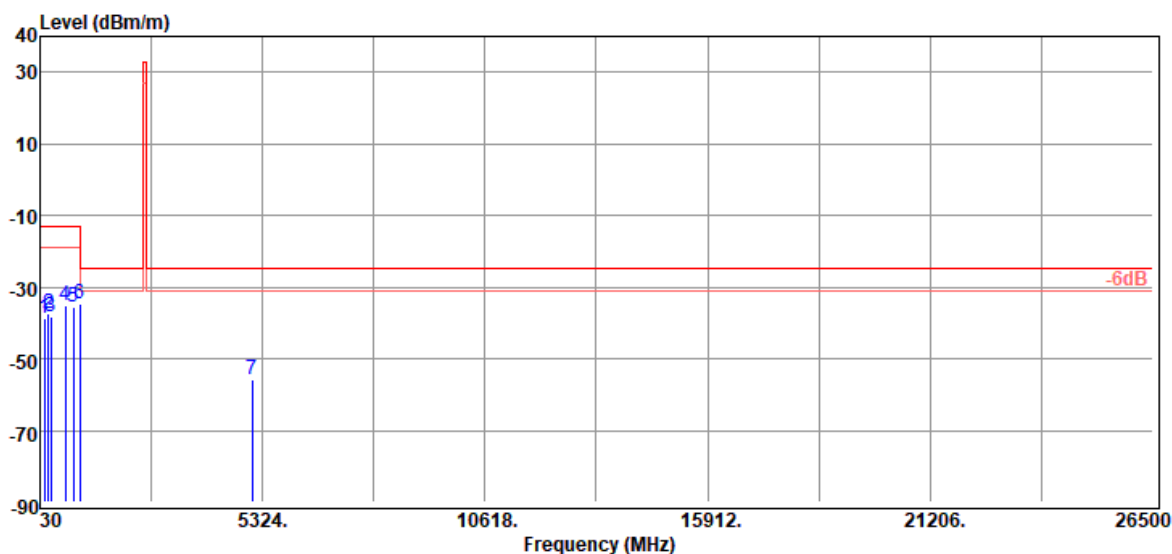
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Report Number :E2/2019/90045  
Operation Mode :LTE B7  
Test Mode :TX CH MID  
EUT Pol :E2 Plan  
Test Channel :2535 MHz

Test Date :2019-11-07  
Temp./Humi. :25/60  
Antenna Pol. :HORIZONTAL  
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
131.85	-38.73	-34.95	-2.15	-1.63	-13.00	-25.73
226.91	-37.18	-39.04	4.02	-2.16	-13.00	-24.18
294.81	-38.49	-39.67	3.66	-2.48	-13.00	-25.49
632.37	-34.91	-35.72	4.48	-3.67	-13.00	-21.91
830.25	-35.41	-36.24	5.34	-4.51	-13.00	-22.41
973.81	-34.61	-34.87	5.35	-5.09	-13.00	-21.61
5070.00	-55.66	-56.77	12.68	-11.57	-25.00	-30.66

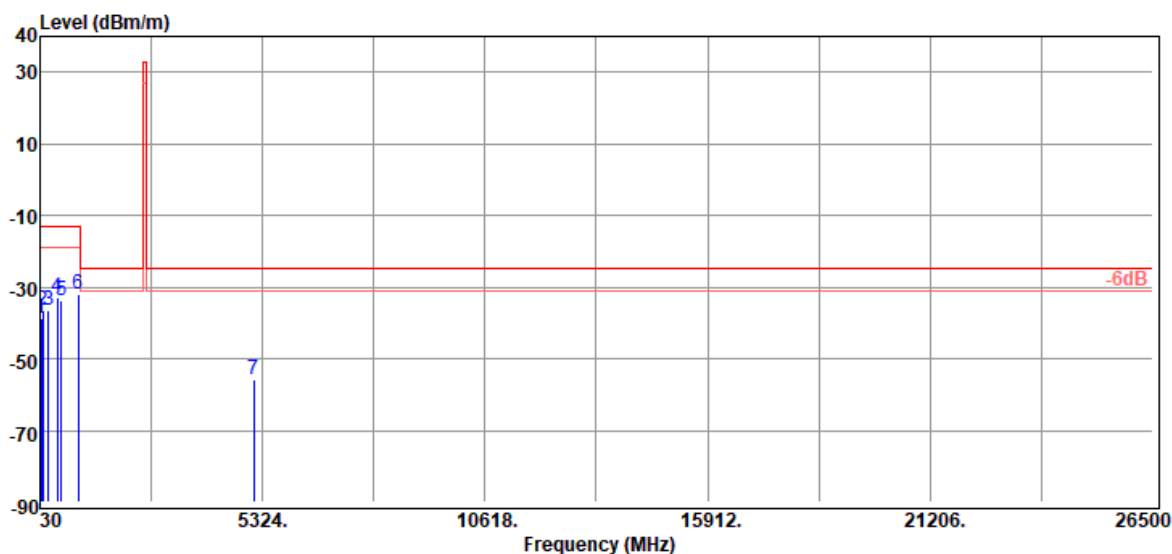
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Report Number :E2/2019/90045  
Operation Mode :LTE B7  
Test Mode :TX CH HIGH  
EUT Pol :E2 Plan  
Test Channel :2560 MHz

Test Date :2019-11-07  
Temp./Humi. :25/60  
Antenna Pol. :VERTICAL  
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
50.37	-38.88	-31.19	-6.85	-0.84	-13.00	-25.88
99.84	-36.36	-31.72	-3.34	-1.30	-13.00	-23.36
227.88	-36.49	-38.31	3.98	-2.16	-13.00	-23.49
438.37	-32.88	-33.86	3.90	-2.92	-13.00	-19.88
537.31	-33.81	-34.72	4.12	-3.21	-13.00	-20.81
934.04	-31.99	-32.64	5.47	-4.82	-13.00	-18.99
5120.00	-55.64	-56.67	12.74	-11.71	-25.00	-30.64

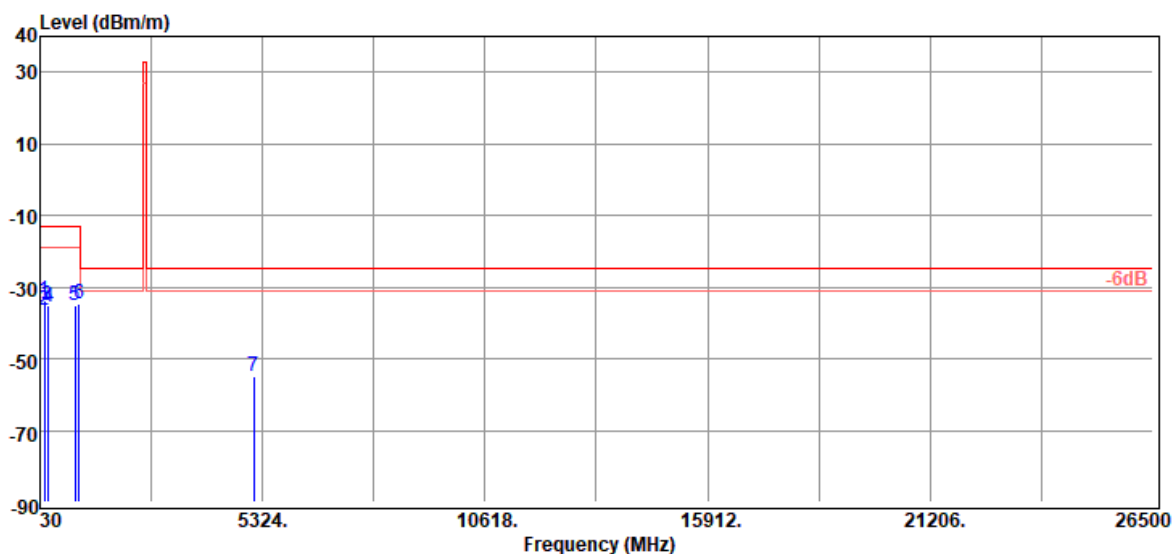
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Report Number :E2/2019/90045  
Operation Mode :LTE B7  
Test Mode :TX CH HIGH  
EUT Pol :E2 Plan  
Test Channel :2560 MHz

Test Date :2019-11-07  
Temp./Humi. :25/60  
Antenna Pol. :HORIZONTAL  
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
126.03	-33.68	-29.40	-2.73	-1.55	-13.00	-20.68
136.70	-36.41	-33.25	-1.53	-1.63	-13.00	-23.41
221.09	-34.91	-37.01	4.26	-2.16	-13.00	-21.91
229.82	-35.39	-37.13	3.90	-2.16	-13.00	-22.39
871.96	-35.28	-35.65	5.27	-4.90	-13.00	-22.28
949.56	-34.50	-35.14	5.41	-4.77	-13.00	-21.50
5120.00	-55.12	-56.15	12.74	-11.71	-25.00	-30.12

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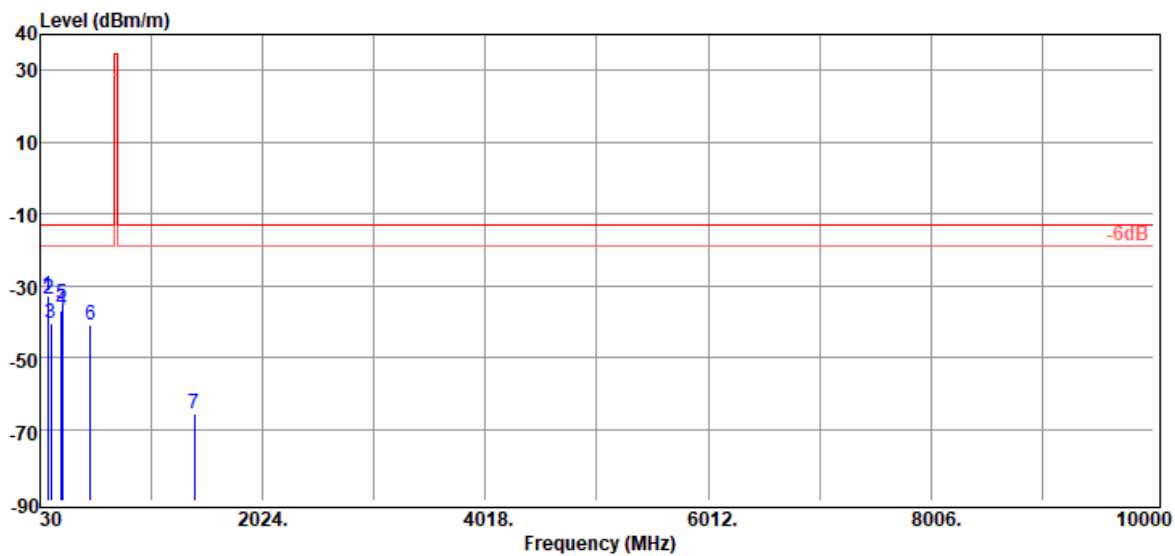
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## Radiated Spurious Emission Measurement Result: LTE-Band 12 (The Worst Case)

Report Number	:E2/2019/90045	Test Date	:2019-11-11
Operation Mode	:LTE B12	Temp./Humi.	:22.7/66
Test Mode	:TX CH LOW	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plan	Engineer	:Enzo
Test Channel	:704 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
98.87	-32.73	-28.15	-3.30	-1.28	-13.00	-19.73
105.66	-33.60	-28.70	-3.53	-1.37	-13.00	-20.60
126.03	-40.48	-36.20	-2.73	-1.55	-13.00	-27.48
220.12	-36.92	-39.06	4.30	-2.16	-13.00	-23.92
228.85	-35.16	-36.94	3.94	-2.16	-13.00	-22.16
479.11	-40.95	-41.93	4.06	-3.08	-13.00	-27.95
1408.00	-65.53	-66.71	7.68	-6.50	-13.00	-52.53

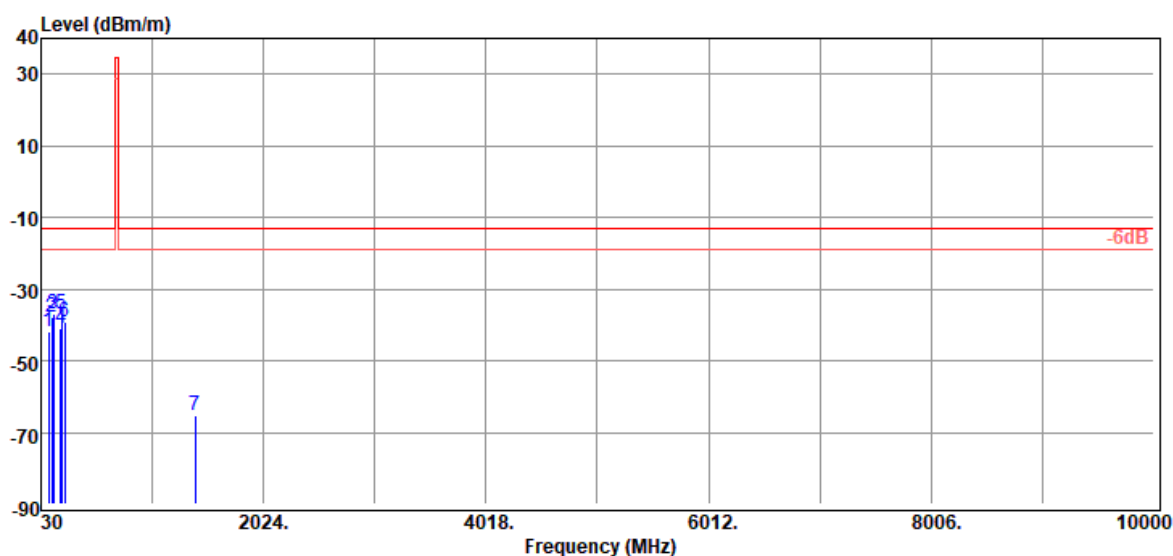
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Report Number :E2/2019/90045  
Operation Mode :LTE B12  
Test Mode :TX CH LOW  
EUT Pol :E2 Plan  
Test Channel :704 MHz

Test Date :2019-11-11  
Temp./Humi. :22.7/66  
Antenna Pol. :HORIZONTAL  
Engineer :Enzo



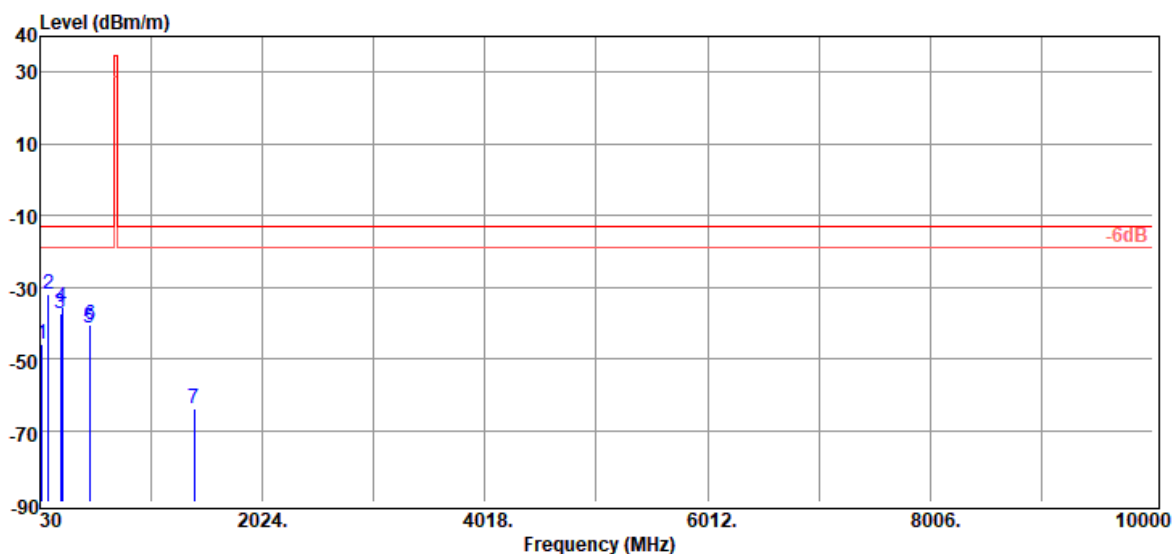
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
99.84	-42.09	-37.45	-3.34	-1.30	-13.00	-29.09
129.91	-37.65	-33.64	-2.38	-1.63	-13.00	-24.65
141.55	-36.85	-34.40	-0.82	-1.63	-13.00	-23.85
205.57	-40.84	-42.22	3.43	-2.05	-13.00	-27.84
213.33	-37.06	-39.21	4.24	-2.09	-13.00	-24.06
244.37	-39.12	-40.09	3.17	-2.20	-13.00	-26.12
1408.00	-65.05	-66.23	7.68	-6.50	-13.00	-52.05

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Report Number :E2/2019/90045  
Operation Mode :LTE B12  
Test Mode :TX CH MID  
EUT Pol :E2 Plan  
Test Channel :707.5 MHz

Test Date :2019-11-11  
Temp./Humi. :22.7/66  
Antenna Pol. :VERTICAL  
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
49.40	-45.88	-37.64	-7.41	-0.83	-13.00	-32.88
102.75	-31.97	-27.24	-3.40	-1.33	-13.00	-18.97
213.33	-37.40	-39.55	4.24	-2.09	-13.00	-24.40
226.91	-35.48	-37.34	4.02	-2.16	-13.00	-22.48
476.20	-41.24	-42.17	4.01	-3.08	-13.00	-28.24
482.99	-40.68	-41.56	4.07	-3.19	-13.00	-27.68
1415.00	-63.94	-65.13	7.71	-6.52	-13.00	-50.94

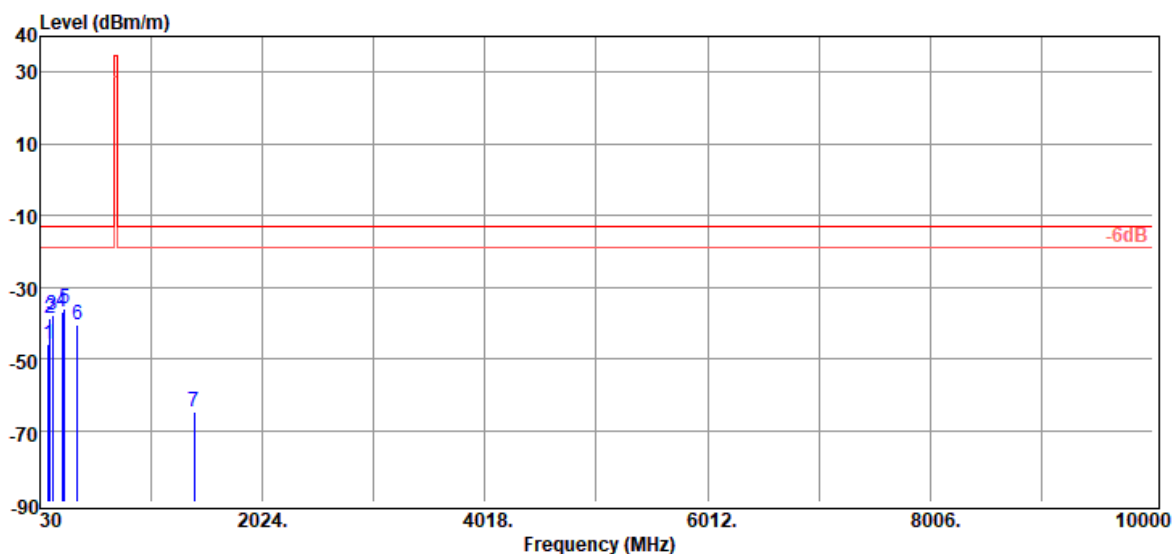
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Report Number :E2/2019/90045  
Operation Mode :LTE B12  
Test Mode :TX CH MID  
EUT Pol :E2 Plan  
Test Channel :707.5 MHz

Test Date :2019-11-11  
Temp./Humi. :22.7/66  
Antenna Pol. :HORIZONTAL  
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
102.75	-45.86	-41.13	-3.40	-1.33	-13.00	-32.86
123.12	-38.63	-34.20	-2.94	-1.49	-13.00	-25.63
141.55	-38.03	-35.58	-0.82	-1.63	-13.00	-25.03
224.97	-36.71	-38.65	4.10	-2.16	-13.00	-23.71
247.28	-35.88	-36.72	3.04	-2.20	-13.00	-22.88
364.65	-40.61	-41.51	3.60	-2.70	-13.00	-27.61
1415.00	-64.82	-66.01	7.71	-6.52	-13.00	-51.82

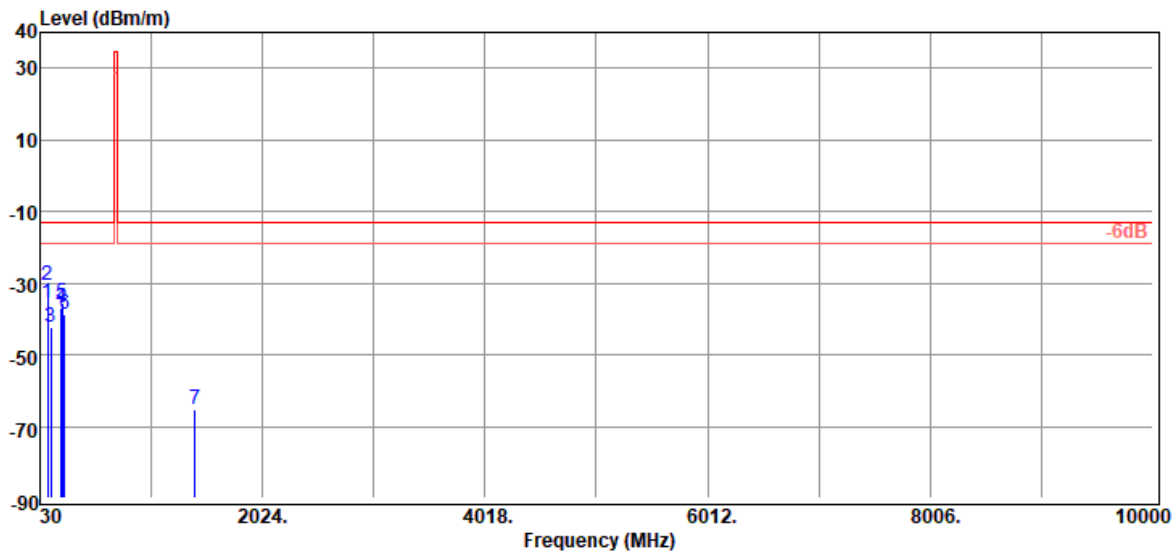
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Report Number :E2/2019/90045  
Operation Mode :LTE B12  
Test Mode :TX CH HIGH  
EUT Pol :E2 Plan  
Test Channel :711 MHz

Test Date :2019-11-11  
Temp./Humi. :22.7/66  
Antenna Pol. :VERTICAL  
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
95.96	-35.74	-31.63	-2.88	-1.23	-13.00	-22.74
100.81	-30.71	-26.05	-3.35	-1.31	-13.00	-17.71
127.00	-42.12	-37.89	-2.66	-1.57	-13.00	-29.12
222.06	-36.70	-38.76	4.22	-2.16	-13.00	-23.70
227.88	-35.68	-37.50	3.98	-2.16	-13.00	-22.68
248.25	-38.69	-39.49	3.00	-2.20	-13.00	-25.69
1422.00	-65.19	-66.40	7.74	-6.53	-13.00	-52.19

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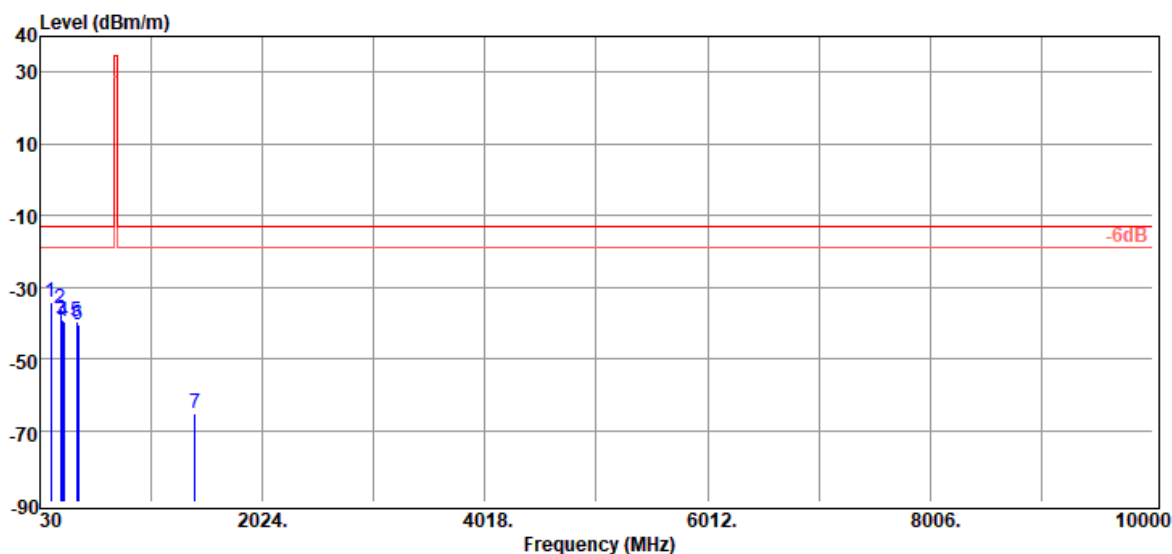
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Report Number :E2/2019/90045  
Operation Mode :LTE B12  
Test Mode :TX CH HIGH  
EUT Pol :E2 Plan  
Test Channel :711 MHz

Test Date :2019-11-11  
Temp./Humi. :22.7/66  
Antenna Pol. :HORIZONTAL  
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
127.97	-34.18	-30.09	-2.50	-1.59	-13.00	-21.18
217.21	-35.94	-38.23	4.42	-2.13	-13.00	-22.94
229.82	-39.07	-40.81	3.90	-2.16	-13.00	-26.07
243.40	-39.43	-40.44	3.21	-2.20	-13.00	-26.43
361.74	-39.64	-40.56	3.53	-2.61	-13.00	-26.64
369.50	-40.66	-41.42	3.62	-2.86	-13.00	-27.66
1422.00	-65.12	-66.33	7.74	-6.53	-13.00	-52.12

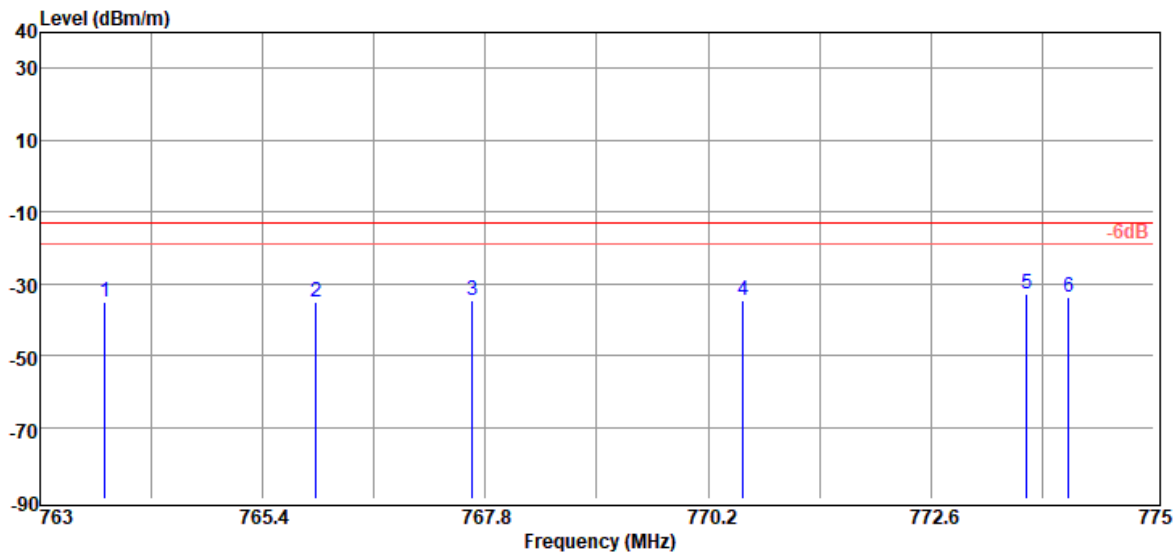
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## Radiated Spurious Emission Measurement Result: LTE-Band 13 (The Worst Case)

Report Number	:E2/2019/90045	Test Date	:2019-11-11
Operation Mode	:LTE B13	Temp./Humi.	:22.7/66
Test Mode	:TX CH MID	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plan	Engineer	:Enzo
Test Channel	:782 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
763.70	-35.32	-36.22	5.14	-4.24	-13.00	-22.32
765.98	-35.17	-36.07	5.14	-4.24	-13.00	-22.17
767.66	-34.66	-35.58	5.16	-4.24	-13.00	-21.66
770.57	-34.86	-35.80	5.20	-4.26	-13.00	-21.86
773.63	-32.96	-33.82	5.23	-4.37	-13.00	-19.96
774.09	-33.65	-34.50	5.24	-4.39	-13.00	-20.65

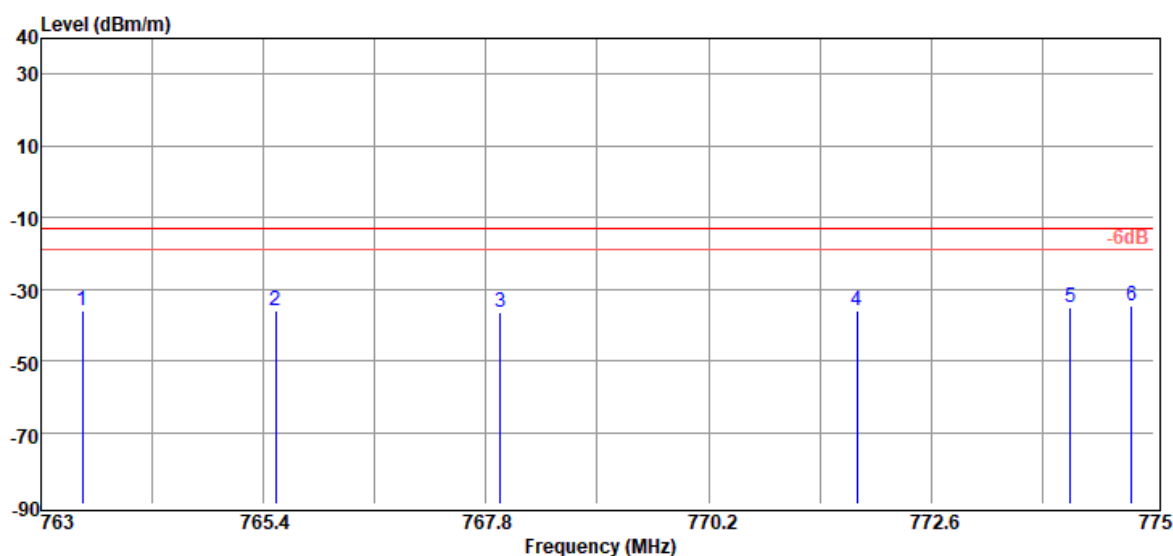
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Report Number :E2/2019/90045  
Operation Mode :LTE B13  
Test Mode :TX CH MID  
EUT Pol :E2 Plan  
Test Channel :782 MHz

Test Date :2019-11-11  
Temp./Humi. :22.7/66  
Antenna Pol. :HORIZONTAL  
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
763.44	-36.11	-37.02	5.15	-4.24	-13.00	-23.11
765.53	-36.24	-37.14	5.14	-4.24	-13.00	-23.24
767.96	-36.64	-37.57	5.17	-4.24	-13.00	-23.64
771.80	-35.80	-36.70	5.21	-4.31	-13.00	-22.80
774.10	-35.07	-35.92	5.24	-4.39	-13.00	-22.07
774.76	-34.60	-35.43	5.25	-4.42	-13.00	-21.60

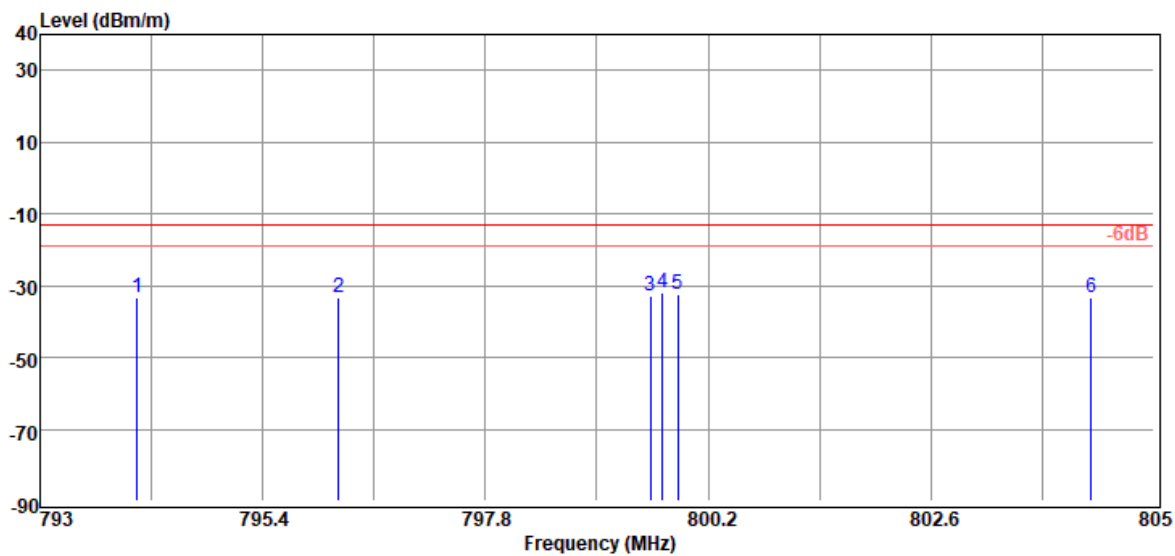
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Report Number :E2/2019/90045  
Operation Mode :LTE B13  
Test Mode :TX CH MID  
EUT Pol :E2 Plan  
Test Channel :782 MHz

Test Date :2019-11-11  
Temp./Humi. :22.7/66  
Antenna Pol. :VERTICAL  
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
794.04	-33.45	-34.29	5.28	-4.44	-13.00	-20.45
796.22	-33.18	-34.14	5.31	-4.35	-13.00	-20.18
799.58	-33.03	-34.23	5.41	-4.21	-13.00	-20.03
799.71	-32.00	-33.21	5.41	-4.20	-13.00	-19.00
799.88	-32.39	-33.61	5.42	-4.20	-13.00	-19.39
804.33	-33.38	-34.66	5.47	-4.19	-13.00	-20.38

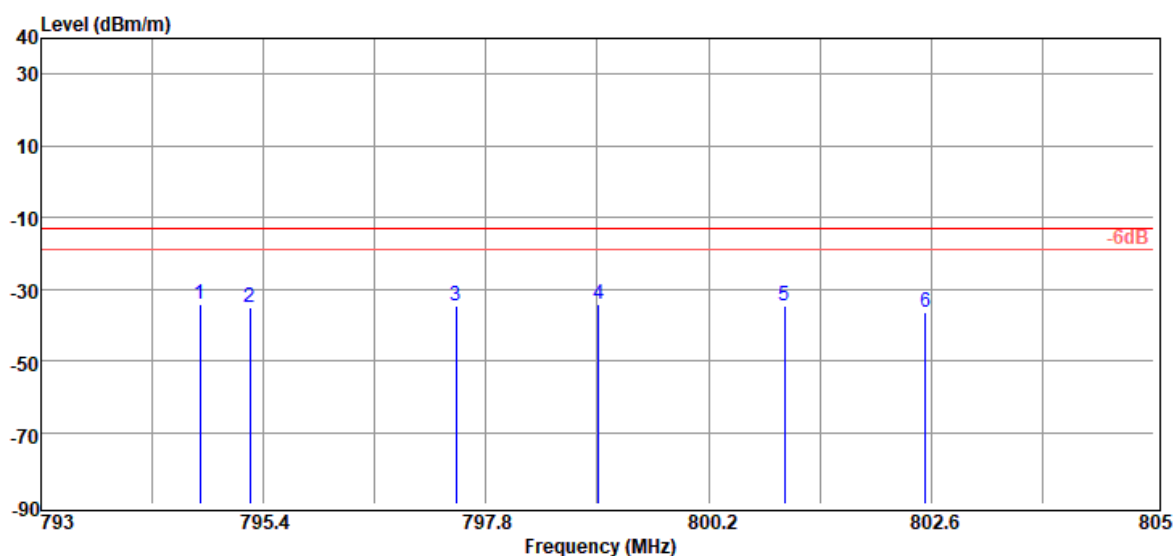
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Report Number :E2/2019/90045  
Operation Mode :LTE B13  
Test Mode :TX CH MID  
EUT Pol :E2 Plan  
Test Channel :782 MHz

Test Date :2019-11-11  
Temp./Humi. :22.7/66  
Antenna Pol. :HORIZONTAL  
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
794.72	-34.09	-34.95	5.27	-4.41	-13.00	-21.09
795.26	-35.28	-36.17	5.28	-4.39	-13.00	-22.28
797.48	-34.82	-35.86	5.34	-4.30	-13.00	-21.82
799.01	-34.31	-35.47	5.39	-4.23	-13.00	-21.31
801.02	-34.64	-35.88	5.43	-4.19	-13.00	-21.64
802.54	-36.33	-37.59	5.45	-4.19	-13.00	-23.33

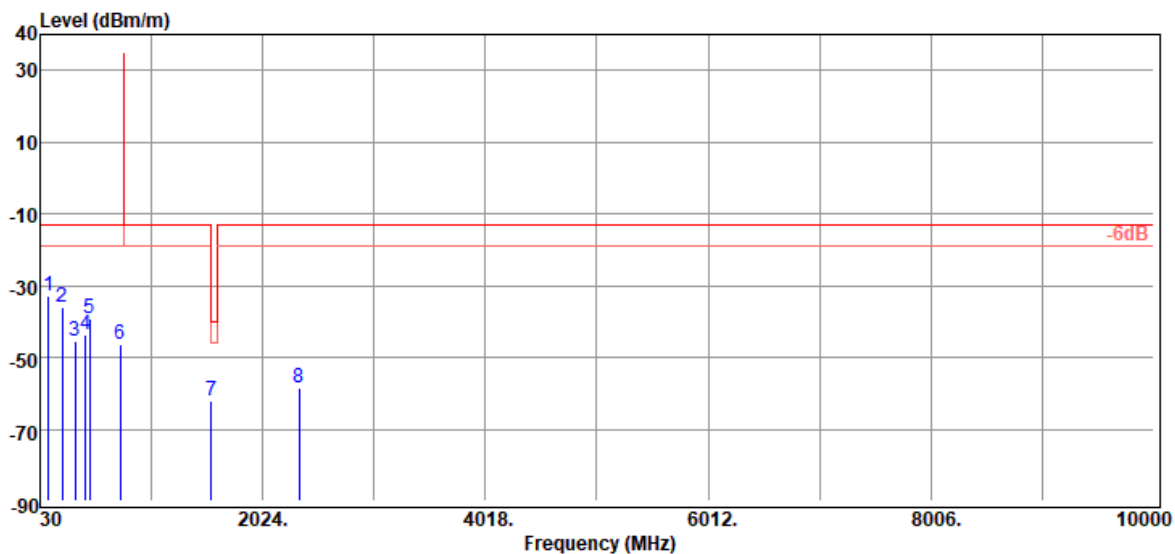
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Report Number :E2/2019/90045  
Operation Mode :LTE B13  
Test Mode :TX CH MID  
EUT Pol :E2 Plan  
Test Channel :782 MHz

Test Date :2019-11-11  
Temp./Humi. :22.7/66  
Antenna Pol. :VERTICAL  
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
102.75	-33.05	-28.32	-3.40	-1.33	-13.00	-20.05
224.97	-35.97	-37.91	4.10	-2.16	-13.00	-22.97
345.25	-45.32	-46.46	3.72	-2.58	-13.00	-32.32
437.40	-43.53	-44.47	3.88	-2.94	-13.00	-30.53
476.20	-39.30	-40.23	4.01	-3.08	-13.00	-26.30
744.89	-46.18	-47.22	5.20	-4.16	-13.00	-33.18
1564.00	-62.11	-63.47	8.36	-7.00	-40.00	-22.11
2346.00	-58.64	-60.33	10.52	-8.83	-13.00	-45.64

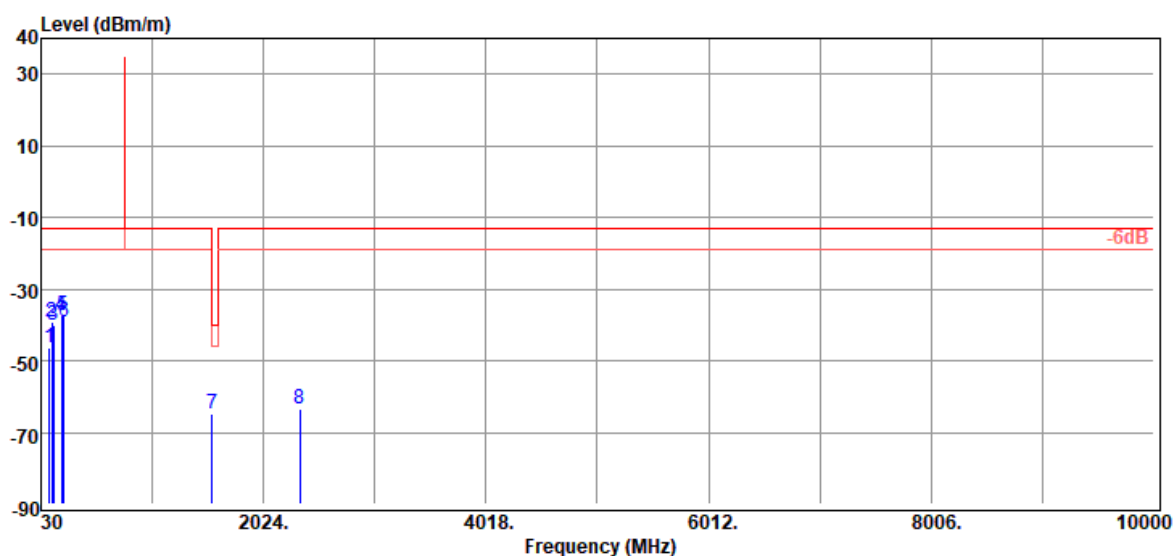
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Report Number :E2/2019/90045  
Operation Mode :LTE B13  
Test Mode :TX CH MID  
EUT Pol :E2 Plan  
Test Channel :782 MHz

Test Date :2019-11-11  
Temp./Humi. :22.7/66  
Antenna Pol. :HORIZONTAL  
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
102.75	-46.45	-41.72	-3.40	-1.33	-13.00	-33.45
128.94	-39.21	-35.07	-2.53	-1.61	-13.00	-26.21
142.52	-40.16	-37.87	-0.65	-1.64	-13.00	-27.16
216.24	-37.18	-39.52	4.46	-2.12	-13.00	-24.18
225.94	-37.15	-39.05	4.06	-2.16	-13.00	-24.15
236.61	-39.07	-40.46	3.58	-2.19	-13.00	-26.07
1564.00	-64.60	-65.96	8.36	-7.00	-40.00	-24.60
2346.00	-63.37	-65.06	10.52	-8.83	-13.00	-50.37

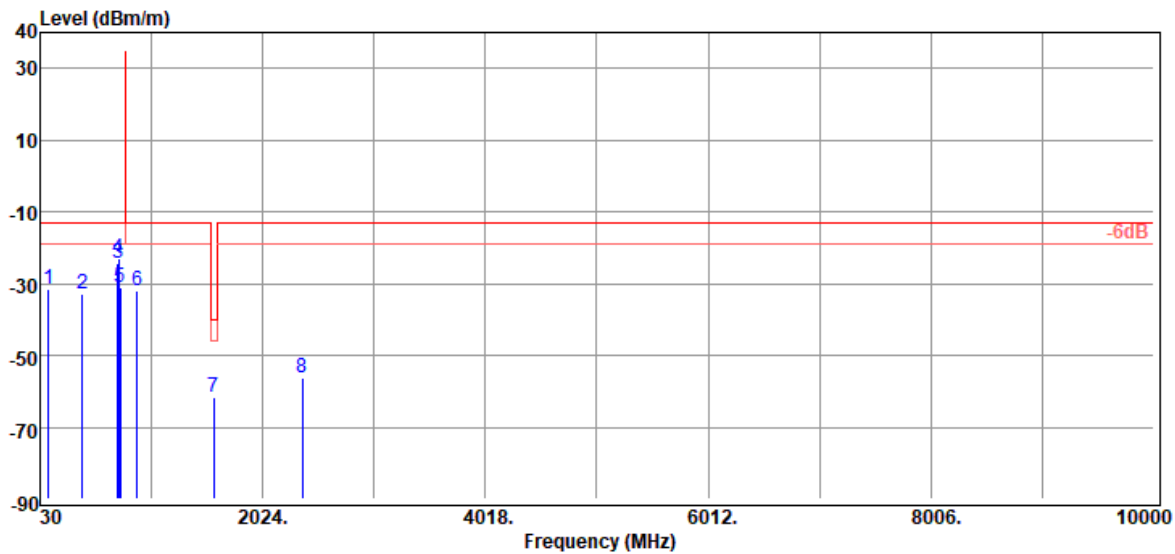
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### Radiated Spurious Emission Measurement Result: LTE-Band 14 (The Worst Case)

Report Number	:E2/2019/90045	Test Date	:2019-11-11
Operation Mode	:LTE B14	Temp./Humi.	:22.7/66
Test Mode	:TX CH MID	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plan	Engineer	:Enzo
Test Channel	:793 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
102.75	-31.55	-26.82	-3.40	-1.33	-13.00	-18.55
410.24	-33.06	-33.08	3.21	-3.19	-13.00	-20.06
729.37	-24.33	-25.39	5.31	-4.25	-13.00	-11.33
734.22	-22.78	-23.85	5.30	-4.23	-13.00	-9.78
747.80	-30.89	-31.91	5.18	-4.16	-13.00	-17.89
902.03	-31.96	-32.66	5.30	-4.60	-13.00	-18.96
1586.00	-61.45	-62.78	8.44	-7.11	-40.00	-21.45
2379.00	-56.22	-57.92	10.55	-8.85	-13.00	-43.22

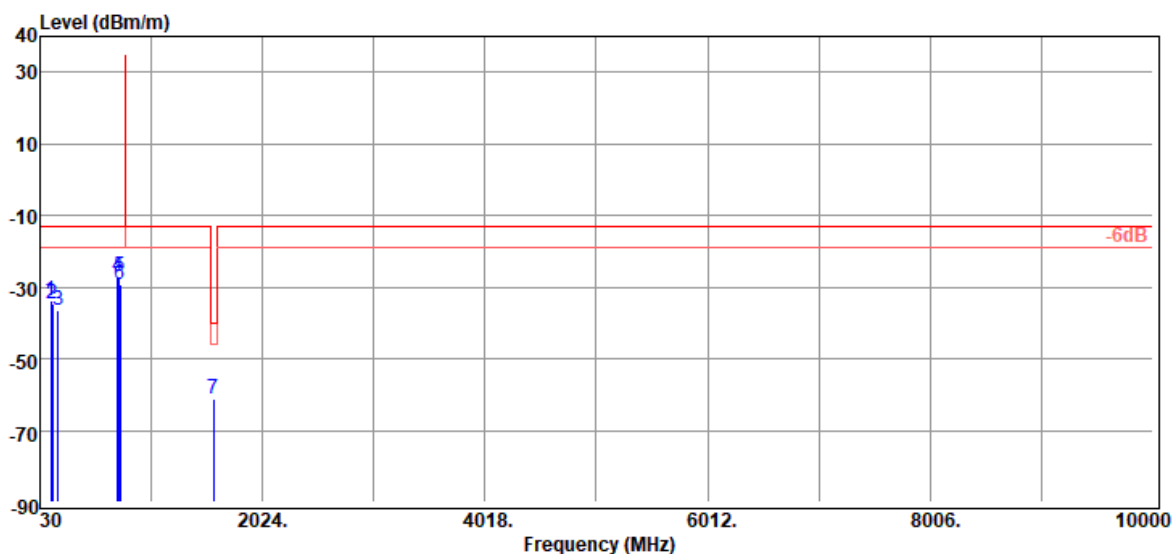
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Report Number :E2/2019/90045  
Operation Mode :LTE B14  
Test Mode :TX CH MID  
EUT Pol :E2 Plan  
Test Channel :793 MHz

Test Date :2019-11-11  
Temp./Humi. :22.7/66  
Antenna Pol. :HORIZONTAL  
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
128.94	-33.69	-29.55	-2.53	-1.61	-13.00	-20.69
142.52	-34.70	-32.41	-0.65	-1.64	-13.00	-21.70
192.96	-36.62	-38.59	3.87	-1.90	-13.00	-23.62
729.37	-26.92	-27.98	5.31	-4.25	-13.00	-13.92
740.04	-27.12	-28.20	5.24	-4.16	-13.00	-14.12
746.83	-29.20	-30.23	5.19	-4.16	-13.00	-16.20
1586.00	-61.18	-62.51	8.44	-7.11	-40.00	-21.18

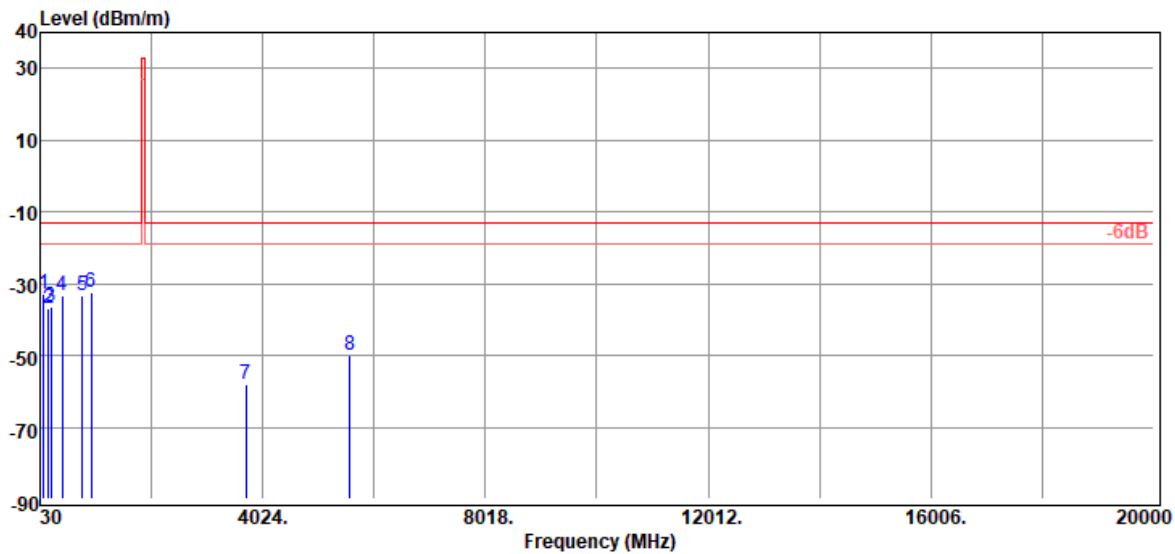
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## Radiated Spurious Emission Measurement Result: LTE-Band 25 (The Worst Case)

Report Number	:E2/2019/90045	Test Date	:2019-11-07
Operation Mode	:LTE B25	Temp./Humi.	:25/60
Test Mode	:TX CH LOW	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plan	Engineer	:Enzo
Test Channel	:1860 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
99.84	-32.76	-28.12	-3.34	-1.30	-13.00	-19.76
185.20	-37.00	-39.03	3.81	-1.78	-13.00	-24.00
224.97	-36.67	-38.61	4.10	-2.16	-13.00	-23.67
428.67	-33.48	-34.03	3.65	-3.10	-13.00	-20.48
795.33	-33.42	-34.31	5.28	-4.39	-13.00	-20.42
949.56	-32.20	-32.84	5.41	-4.77	-13.00	-19.20
3720.00	-57.87	-59.18	12.53	-11.22	-13.00	-44.87
5580.00	-49.89	-51.68	13.20	-11.41	-13.00	-36.89

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

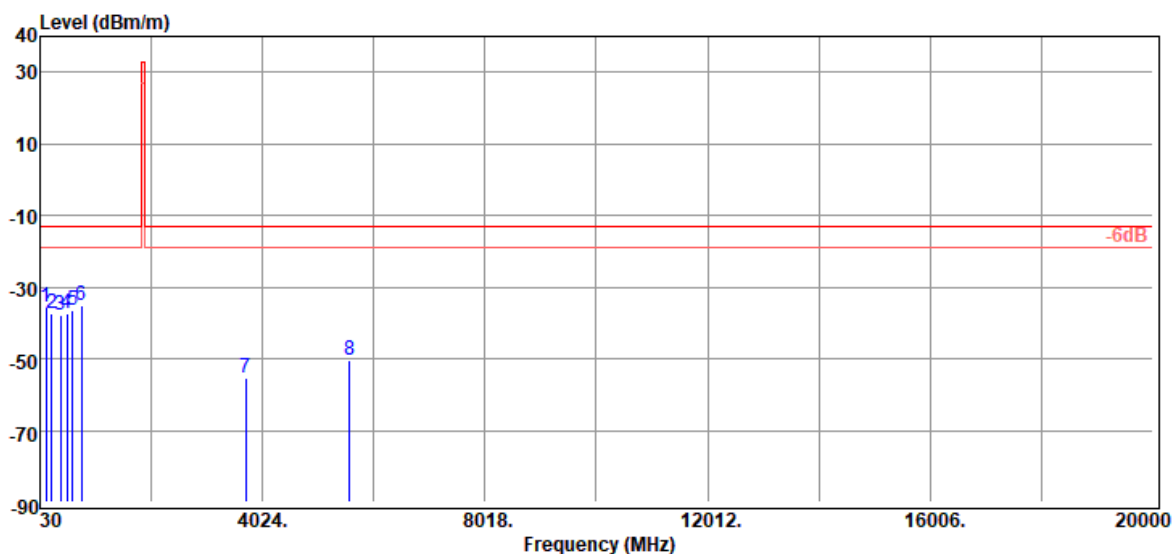
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Report Number :E2/2019/90045  
Operation Mode :LTE B25  
Test Mode :TX CH LOW  
EUT Pol :E2 Plan  
Test Channel :1860 MHz

Test Date :2019-11-07  
Temp./Humi. :25/60  
Antenna Pol. :HORIZONTAL  
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
133.79	-35.67	-32.15	-1.89	-1.63	-13.00	-22.67
234.67	-37.46	-38.97	3.69	-2.18	-13.00	-24.46
401.51	-37.79	-38.04	3.44	-3.19	-13.00	-24.79
509.18	-37.29	-37.96	4.20	-3.53	-13.00	-24.29
618.79	-36.52	-37.55	4.62	-3.59	-13.00	-23.52
776.90	-35.09	-35.86	5.27	-4.50	-13.00	-22.09
3720.00	-55.35	-56.66	12.53	-11.22	-13.00	-42.35
5580.00	-50.54	-52.33	13.20	-11.41	-13.00	-37.54

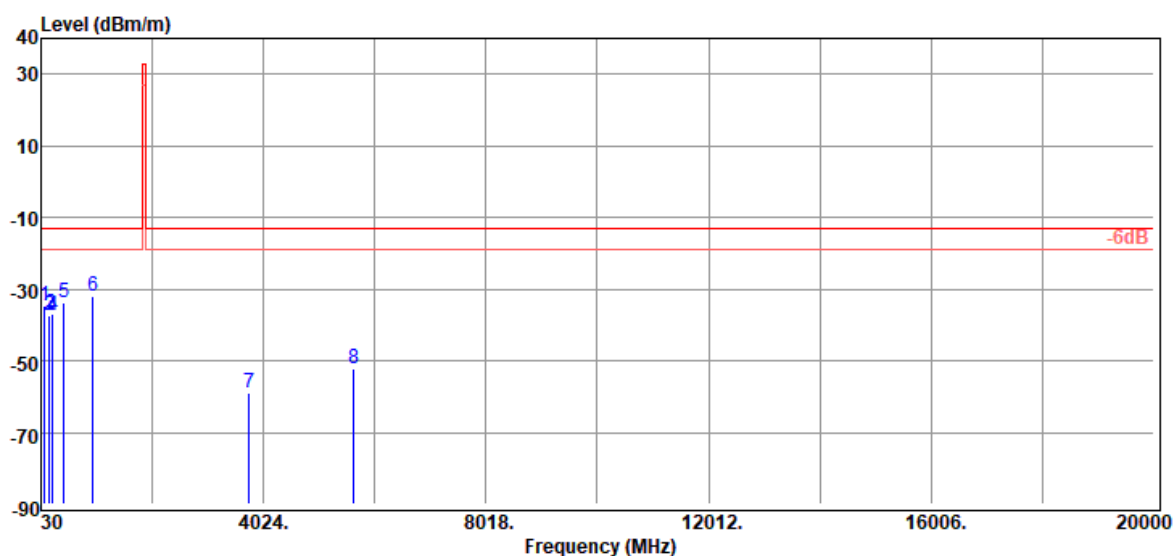
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Report Number :E2/2019/90045  
Operation Mode :LTE B25  
Test Mode :TX CH MID  
EUT Pol :E2 Plan  
Test Channel :1882.5 MHz

Test Date :2019-11-07  
Temp./Humi. :25/60  
Antenna Pol. :VERTICAL  
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
100.81	-34.78	-30.12	-3.35	-1.31	-13.00	-21.78
179.38	-37.27	-39.06	3.50	-1.71	-13.00	-24.27
224.00	-36.89	-38.87	4.14	-2.16	-13.00	-23.89
234.67	-37.31	-38.82	3.69	-2.18	-13.00	-24.31
439.34	-33.59	-34.61	3.92	-2.90	-13.00	-20.59
955.38	-32.17	-32.62	5.46	-5.01	-13.00	-19.17
3765.00	-59.05	-60.58	12.56	-11.03	-13.00	-46.05
5647.50	-52.09	-53.73	13.20	-11.56	-13.00	-39.09

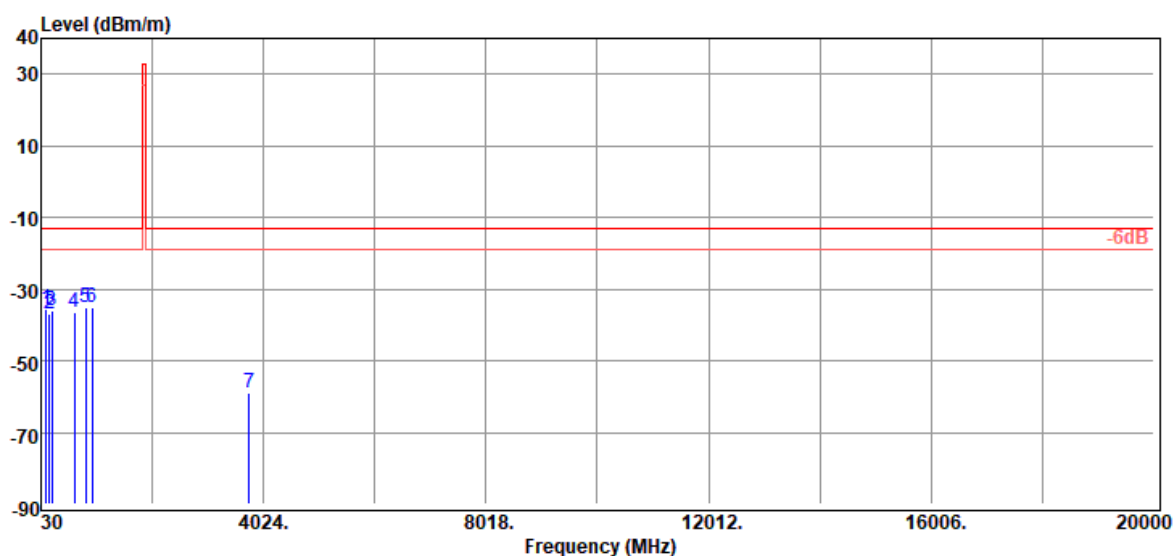
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Report Number :E2/2019/90045  
Operation Mode :LTE B25  
Test Mode :TX CH MID  
EUT Pol :E2 Plan  
Test Channel :1882.5 MHz

Test Date :2019-11-07  
Temp./Humi. :25/60  
Antenna Pol. :HORIZONTAL  
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
122.15	-35.40	-30.85	-3.08	-1.47	-13.00	-22.40
179.38	-36.96	-38.75	3.50	-1.71	-13.00	-23.96
224.00	-36.16	-38.14	4.14	-2.16	-13.00	-23.16
631.40	-36.43	-37.28	4.47	-3.62	-13.00	-23.43
830.25	-35.25	-36.08	5.34	-4.51	-13.00	-22.25
950.53	-35.07	-35.70	5.42	-4.79	-13.00	-22.07
3765.00	-58.90	-60.43	12.56	-11.03	-13.00	-45.90

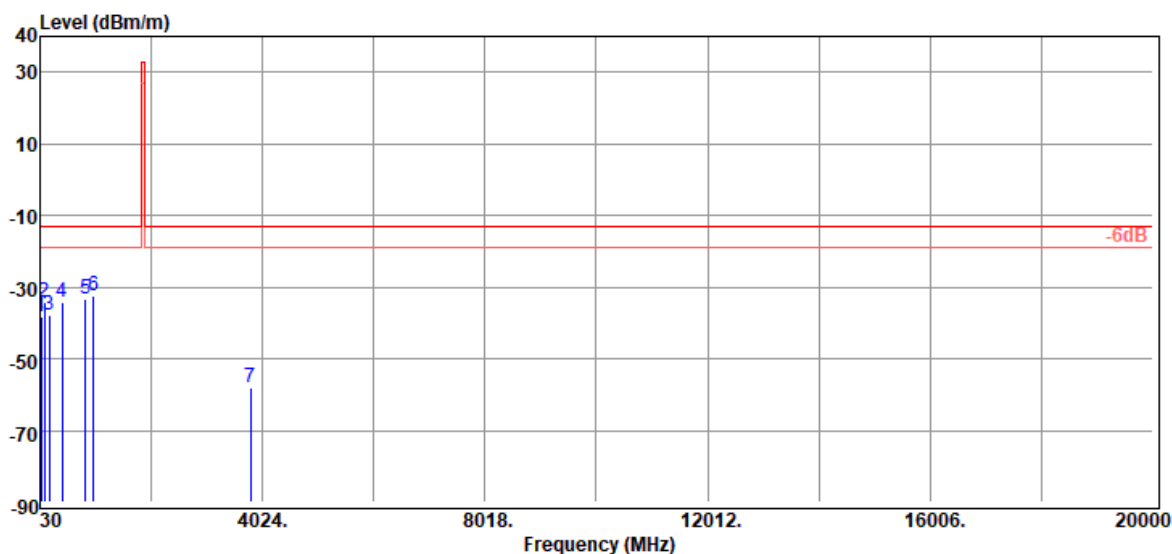
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Report Number :E2/2019/90045  
Operation Mode :LTE B25  
Test Mode :TX CH HIGH  
EUT Pol :E2 Plan  
Test Channel :1905 MHz

Test Date :2019-11-07  
Temp./Humi. :25/60  
Antenna Pol. :VERTICAL  
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
52.31	-38.31	-31.68	-5.77	-0.86	-13.00	-25.31
102.75	-34.37	-29.64	-3.40	-1.33	-13.00	-21.37
200.72	-37.95	-39.37	3.47	-2.05	-13.00	-24.95
430.61	-34.27	-34.92	3.74	-3.09	-13.00	-21.27
850.62	-33.14	-34.00	5.34	-4.48	-13.00	-20.14
989.33	-32.47	-33.03	5.44	-4.88	-13.00	-19.47
3810.00	-58.00	-59.72	12.59	-10.87	-13.00	-45.00

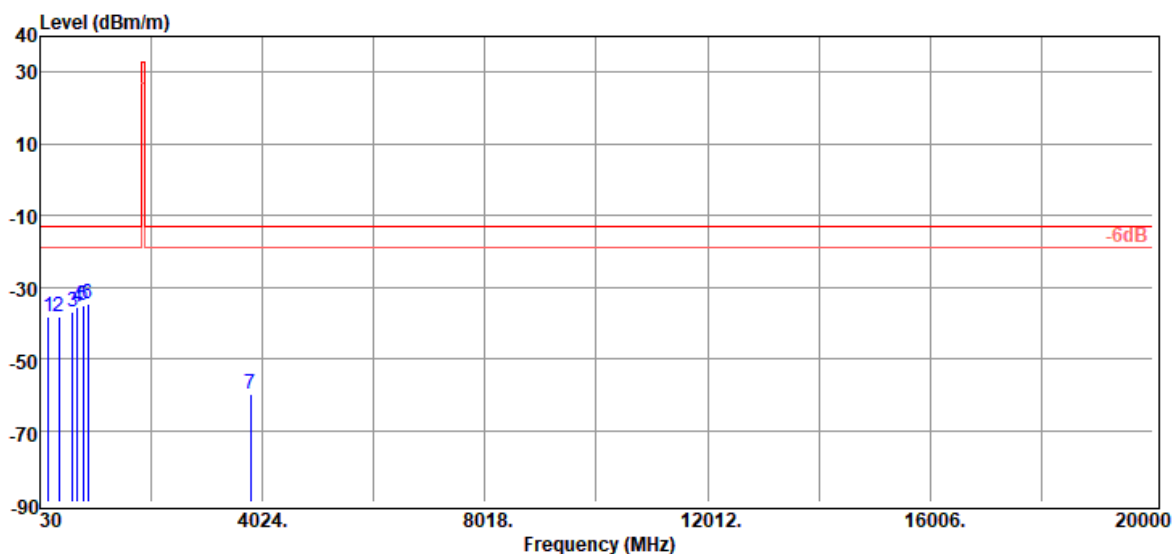
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Report Number :E2/2019/90045  
Operation Mode :LTE B25  
Test Mode :TX CH HIGH  
EUT Pol :E2 Plan  
Test Channel :1905 MHz

Test Date :2019-11-07  
Temp./Humi. :25/60  
Antenna Pol. :HORIZONTAL  
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
182.29	-38.25	-40.18	3.67	-1.74	-13.00	-25.25
373.38	-38.05	-38.89	3.70	-2.86	-13.00	-25.05
621.70	-36.90	-37.93	4.57	-3.54	-13.00	-23.90
704.15	-35.37	-36.40	5.13	-4.10	-13.00	-22.37
797.27	-35.22	-36.26	5.34	-4.30	-13.00	-22.22
887.48	-34.57	-35.13	5.22	-4.66	-13.00	-21.57
3810.00	-59.68	-61.40	12.59	-10.87	-13.00	-46.68

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

Report Number :E2/2019/90045

Test Date :2019-11-11

Operation Mode :LTE B26

Temp./Humi. :23.4/57

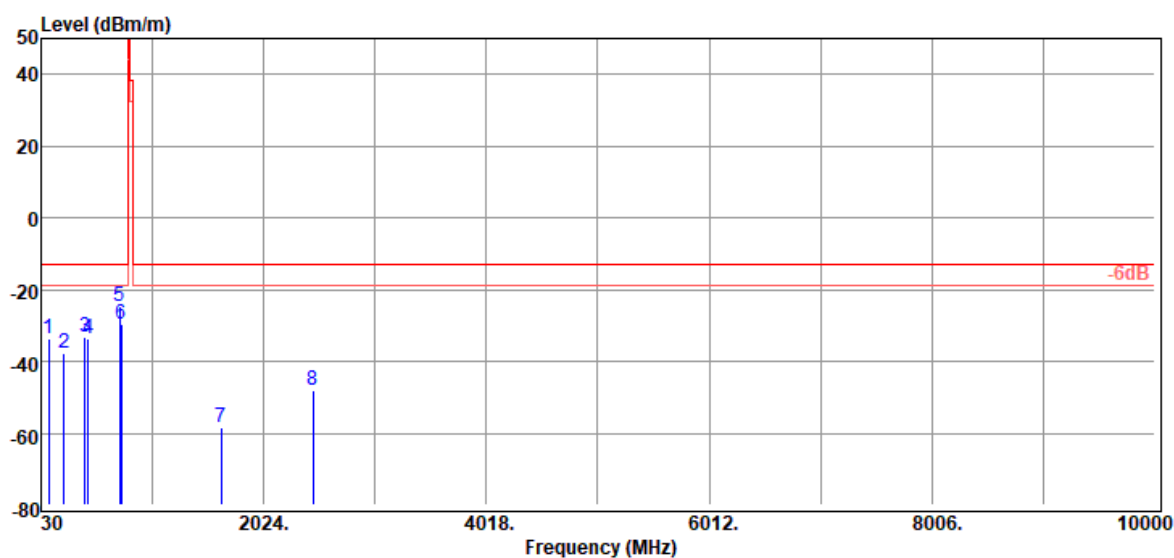
Test Mode :TX CH LOW

Antenna Pol. :VERTICAL

EUT Pol :E2 Plan

Engineer :Ashton

Test Channel :821.5 MHz



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
99.84	-33.74	-29.10	-3.34	-1.30	-13.00	-20.74
234.67	-37.70	-39.21	3.69	-2.18	-13.00	-24.70
420.91	-33.23	-33.39	3.26	-3.10	-13.00	-20.23
449.04	-33.87	-35.08	4.10	-2.89	-13.00	-20.87
730.34	-24.71	-25.76	5.33	-4.28	-13.00	-11.71
747.80	-29.50	-30.52	5.18	-4.16	-13.00	-16.50
1643.00	-58.32	-59.53	8.67	-7.46	-13.00	-45.32
2464.50	-47.89	-49.59	10.66	-8.96	-13.00	-34.89

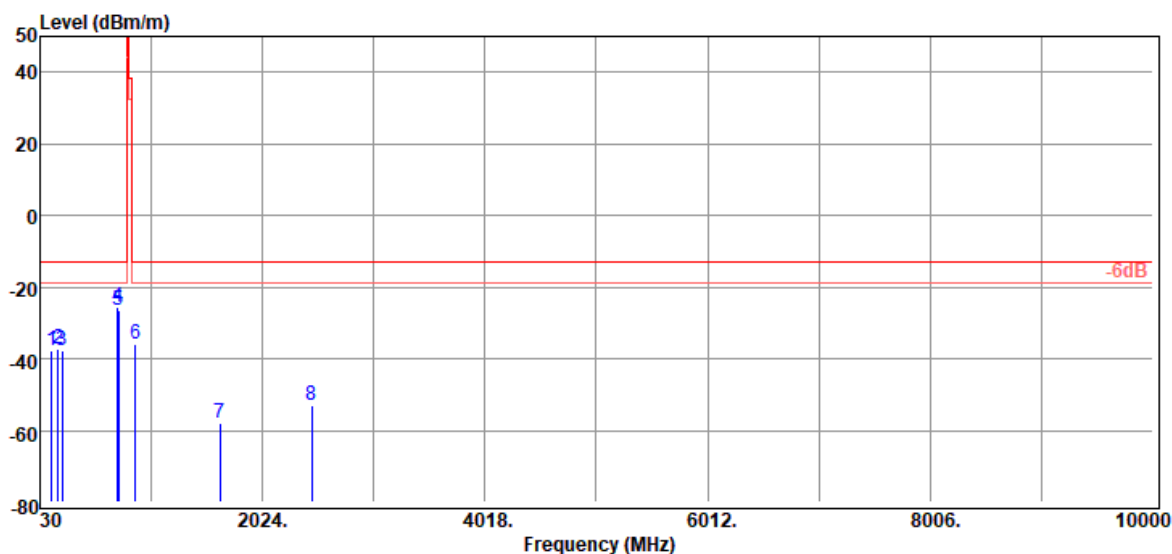
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Report Number :E2/2019/90045  
Operation Mode :LTE B26  
Test Mode :TX CH LOW  
EUT Pol :E2 Plan  
Test Channel :821.5 MHz

Test Date :2019-11-11  
Temp./Humi. :23.4/57  
Antenna Pol. :HORIZONTAL  
Engineer :Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
136.70	-37.79	-34.63	-1.53	-1.63	-13.00	-24.79
194.90	-37.45	-39.28	3.77	-1.94	-13.00	-24.45
231.76	-37.50	-39.15	3.82	-2.17	-13.00	-24.50
729.37	-25.73	-26.79	5.31	-4.25	-13.00	-12.73
734.22	-26.52	-27.59	5.30	-4.23	-13.00	-13.52
886.51	-35.73	-36.26	5.22	-4.69	-13.00	-22.73
1643.00	-58.04	-59.25	8.67	-7.46	-13.00	-45.04
2464.50	-53.22	-54.92	10.66	-8.96	-13.00	-40.22

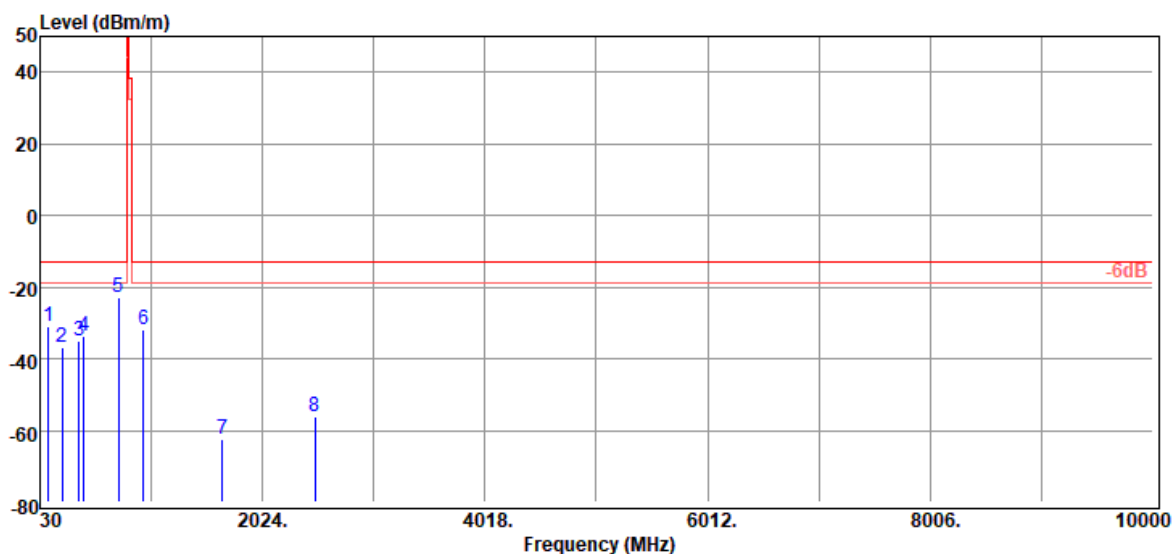
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Report Number :E2/2019/90045  
Operation Mode :LTE B26  
Test Mode :TX CH MID  
EUT Pol :E2 Plan  
Test Channel :831.5 MHz

Test Date :2019-11-11  
Temp./Humi. :23.4/57  
Antenna Pol. :VERTICAL  
Engineer :Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
102.75	-30.97	-26.24	-3.40	-1.33	-13.00	-17.97
229.82	-36.78	-38.52	3.90	-2.16	-13.00	-23.78
376.29	-34.96	-35.87	3.75	-2.84	-13.00	-21.96
425.76	-33.74	-34.12	3.48	-3.10	-13.00	-20.74
730.34	-23.06	-24.11	5.33	-4.28	-13.00	-10.06
957.32	-31.92	-32.26	5.44	-5.10	-13.00	-18.92
1663.00	-62.28	-63.45	8.75	-7.58	-13.00	-49.28
2494.50	-56.07	-57.76	10.69	-9.00	-13.00	-43.07

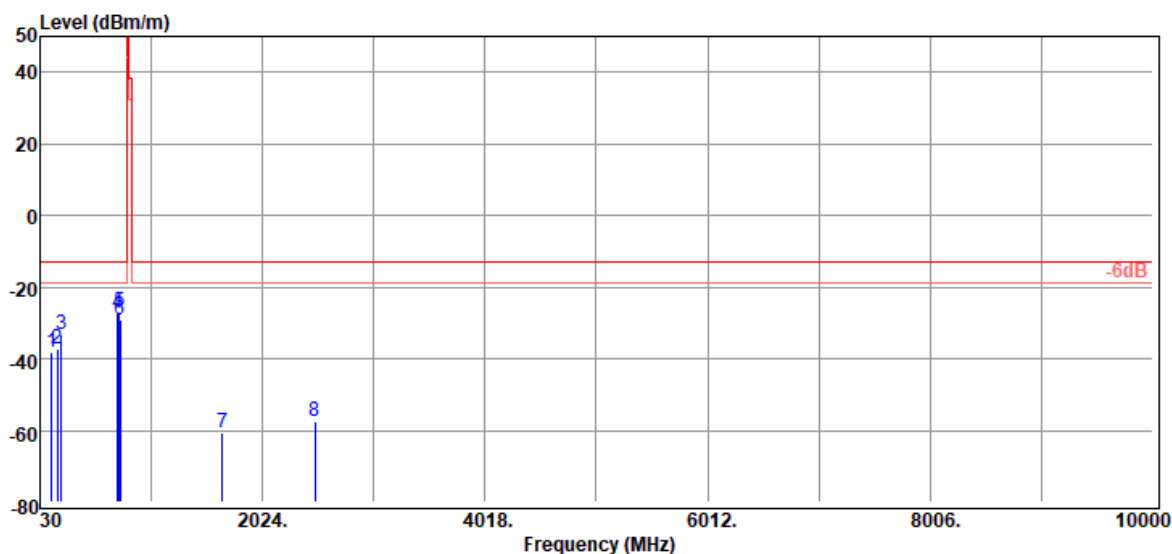
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Report Number :E2/2019/90045  
Operation Mode :LTE B26  
Test Mode :TX CH MID  
EUT Pol :E2 Plan  
Test Channel :831.5 MHz

Test Date :2019-11-11  
Temp./Humi. :23.4/57  
Antenna Pol. :HORIZONTAL  
Engineer :Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
133.79	-38.32	-34.80	-1.89	-1.63	-13.00	-25.32
184.23	-37.34	-39.35	3.77	-1.76	-13.00	-24.34
221.09	-33.39	-35.49	4.26	-2.16	-13.00	-20.39
729.37	-27.24	-28.30	5.31	-4.25	-13.00	-14.24
738.10	-27.13	-28.21	5.26	-4.18	-13.00	-14.13
747.80	-29.11	-30.13	5.18	-4.16	-13.00	-16.11
1663.00	-60.55	-61.72	8.75	-7.58	-13.00	-47.55
2494.50	-57.47	-59.16	10.69	-9.00	-13.00	-44.47

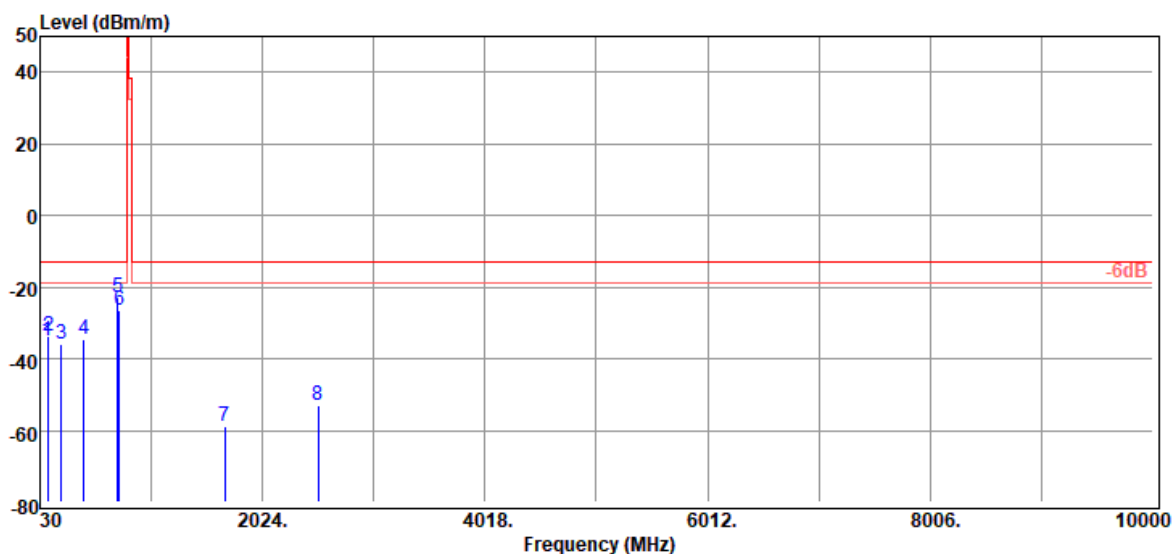
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Report Number :E2/2019/90045  
Operation Mode :LTE B26  
Test Mode :TX CH HIGH  
EUT Pol :E2 Plan  
Test Channel :841.5 MHz

Test Date :2019-11-11  
Temp./Humi. :23.4/57  
Antenna Pol. :VERTICAL  
Engineer :Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
96.93	-34.83	-30.49	-3.09	-1.25	-13.00	-21.83
102.75	-33.55	-28.82	-3.40	-1.33	-13.00	-20.55
223.03	-35.74	-37.76	4.18	-2.16	-13.00	-22.74
420.91	-34.40	-34.56	3.26	-3.10	-13.00	-21.40
729.37	-22.91	-23.97	5.31	-4.25	-13.00	-9.91
743.92	-26.53	-27.58	5.21	-4.16	-13.00	-13.53
1683.00	-58.73	-59.85	8.83	-7.71	-13.00	-45.73
2524.50	-53.03	-54.72	10.72	-9.03	-13.00	-40.03

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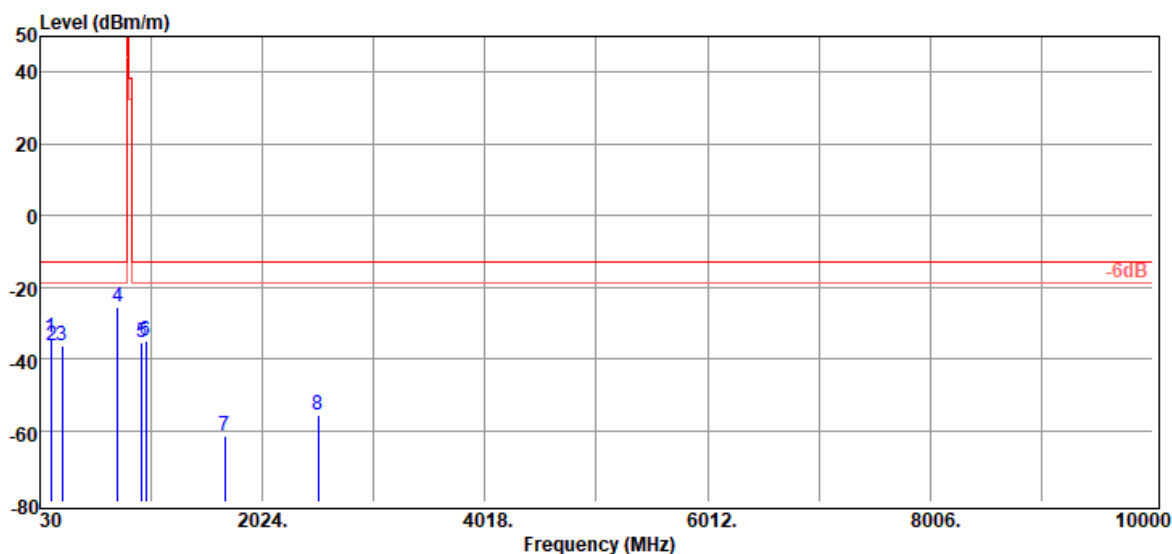
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Report Number :E2/2019/90045  
Operation Mode :LTE B26  
Test Mode :TX CH HIGH  
EUT Pol :E2 Plan  
Test Channel :841.5 MHz

Test Date :2019-11-11  
Temp./Humi. :23.4/57  
Antenna Pol. :HORIZONTAL  
Engineer :Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
127.00	-34.28	-30.05	-2.66	-1.57	-13.00	-21.28
135.73	-36.55	-33.31	-1.61	-1.63	-13.00	-23.55
226.91	-36.25	-38.11	4.02	-2.16	-13.00	-23.25
729.37	-25.49	-26.55	5.31	-4.25	-13.00	-12.49
944.71	-35.48	-36.08	5.37	-4.77	-13.00	-22.48
977.69	-35.23	-35.58	5.31	-4.96	-13.00	-22.23
1683.00	-61.44	-62.56	8.83	-7.71	-13.00	-48.44
2524.50	-55.73	-57.42	10.72	-9.03	-13.00	-42.73

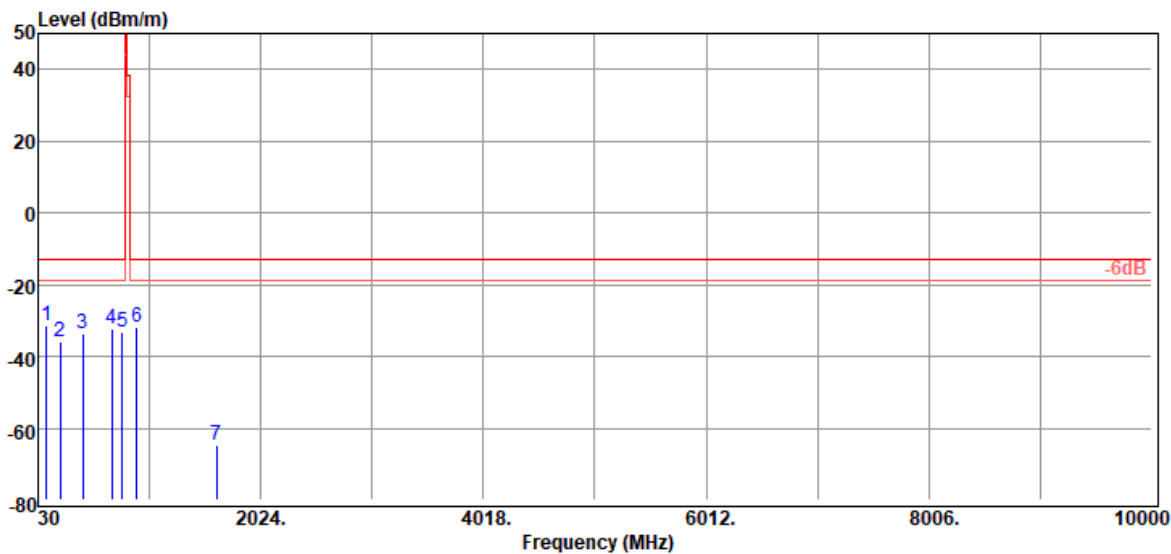
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## Radiated Spurious Emission Measurement Result: LTE-Band 26 for Part 90S (The Worst Case)

Report Number	:E2/2019/90045	Test Date	:2019-11-11
Operation Mode	:LTE Part 90 B26	Temp./Humi.	:23.4/56
Test Mode	:TX CH LOW	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plan	Engineer	:Ashton
Test Channel	:815.5 MHz		



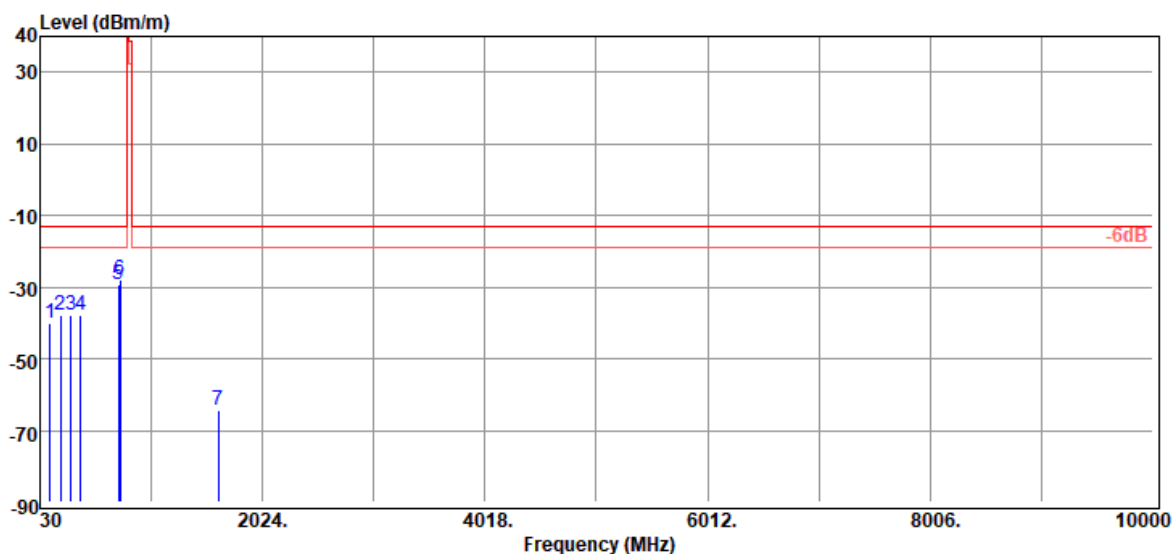
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
102.75	-31.33	-26.60	-3.40	-1.33	-13.00	-18.33
225.94	-35.88	-37.78	4.06	-2.16	-13.00	-22.88
433.52	-33.64	-34.41	3.80	-3.03	-13.00	-20.64
689.60	-32.40	-33.08	4.93	-4.25	-13.00	-19.40
786.60	-33.21	-33.88	5.28	-4.61	-13.00	-20.21
916.58	-31.83	-32.55	5.51	-4.79	-13.00	-18.83
1631.00	-64.62	-65.86	8.62	-7.38	-13.00	-51.62

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Report Number :E2/2019/90045  
Operation Mode :LTE Part 90 B26  
Test Mode :TX CH LOW  
EUT Pol :E2 Plan  
Test Channel :815.5 MHz

Test Date :2019-11-11  
Temp./Humi. :23.4/56  
Antenna Pol. :HORIZONTAL  
Engineer :Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
117.30	-39.97	-35.29	-3.26	-1.42	-13.00	-26.97
213.33	-37.93	-40.08	4.24	-2.09	-13.00	-24.93
311.30	-37.92	-38.87	3.67	-2.72	-13.00	-24.92
396.66	-37.79	-38.36	3.63	-3.06	-13.00	-24.79
730.34	-29.34	-30.39	5.33	-4.28	-13.00	-16.34
746.83	-27.89	-28.92	5.19	-4.16	-13.00	-14.89
1631.00	-64.31	-65.55	8.62	-7.38	-13.00	-51.31

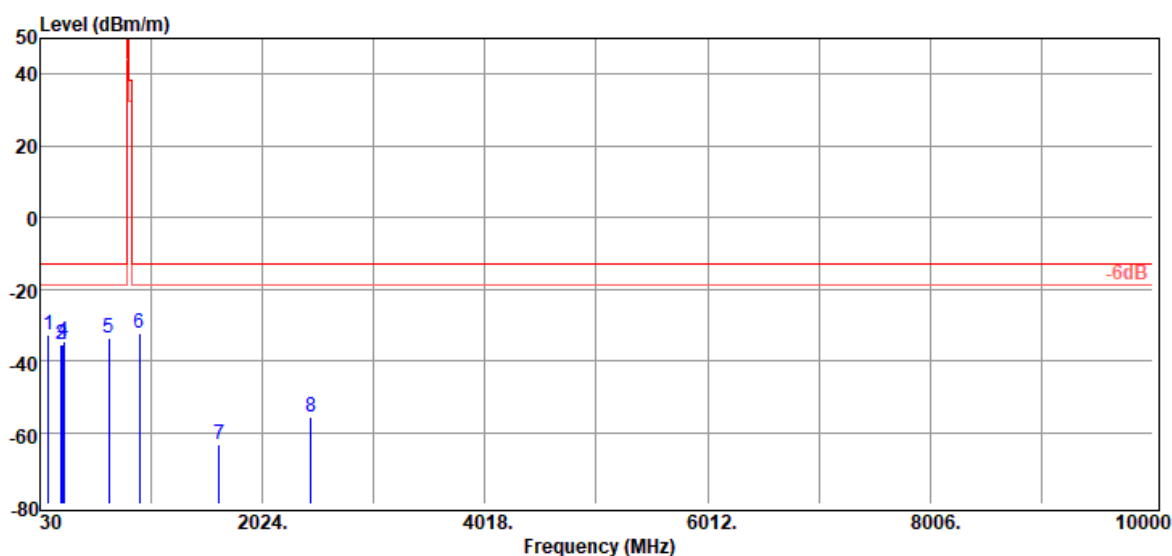
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Report Number :E2/2019/90045  
Operation Mode :LTE Part 90 B26  
Test Mode :TX CH MID  
EUT Pol :E2 Plan  
Test Channel :819 MHz

Test Date :2019-11-11  
Temp./Humi. :23.4/56  
Antenna Pol. :VERTICAL  
Engineer :Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
102.75	-32.99	-28.26	-3.40	-1.33	-13.00	-19.99
223.03	-35.67	-37.69	4.18	-2.16	-13.00	-22.67
229.82	-35.33	-37.07	3.90	-2.16	-13.00	-22.33
246.31	-34.60	-35.48	3.08	-2.20	-13.00	-21.60
649.83	-33.70	-34.45	4.52	-3.77	-13.00	-20.70
921.43	-32.33	-32.99	5.52	-4.86	-13.00	-19.33
1638.00	-63.39	-64.62	8.65	-7.42	-13.00	-50.39
2457.00	-55.63	-57.33	10.65	-8.95	-13.00	-42.63

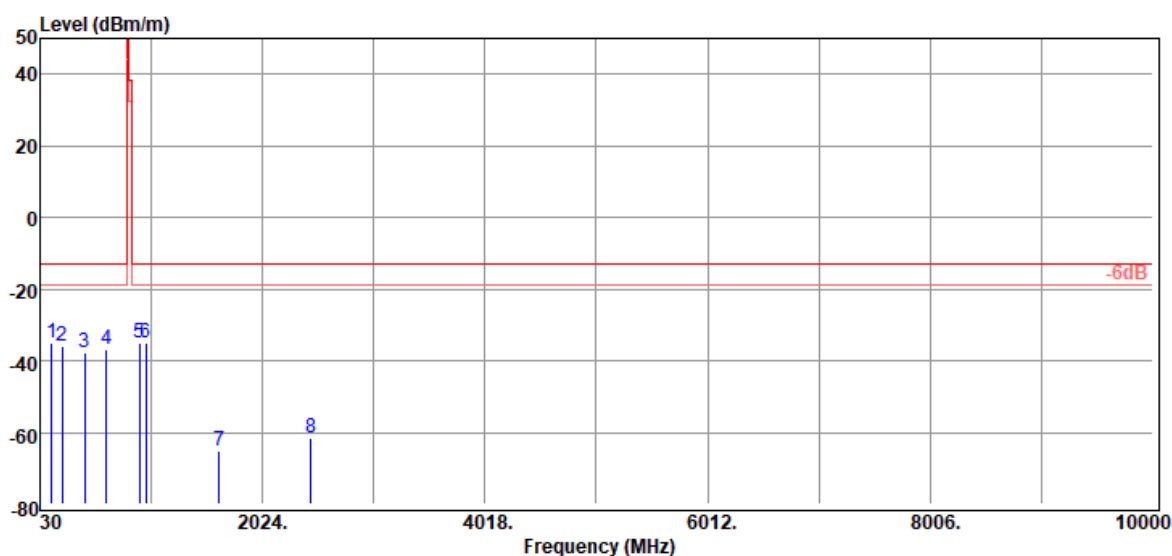
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Report Number :E2/2019/90045  
Operation Mode :LTE Part 90 B26  
Test Mode :TX CH MID  
EUT Pol :E2 Plan  
Test Channel :819 MHz

Test Date :2019-11-11  
Temp./Humi. :23.4/56  
Antenna Pol. :HORIZONTAL  
Engineer :Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
131.85	-35.22	-31.44	-2.15	-1.63	-13.00	-22.22
227.88	-36.05	-37.87	3.98	-2.16	-13.00	-23.05
429.64	-37.71	-38.32	3.71	-3.10	-13.00	-24.71
628.49	-36.67	-37.59	4.46	-3.54	-13.00	-23.67
919.49	-35.06	-35.74	5.53	-4.85	-13.00	-22.06
977.69	-34.81	-35.16	5.31	-4.96	-13.00	-21.81
1638.00	-64.94	-66.17	8.65	-7.42	-13.00	-51.94
2457.00	-61.62	-63.32	10.65	-8.95	-13.00	-48.62

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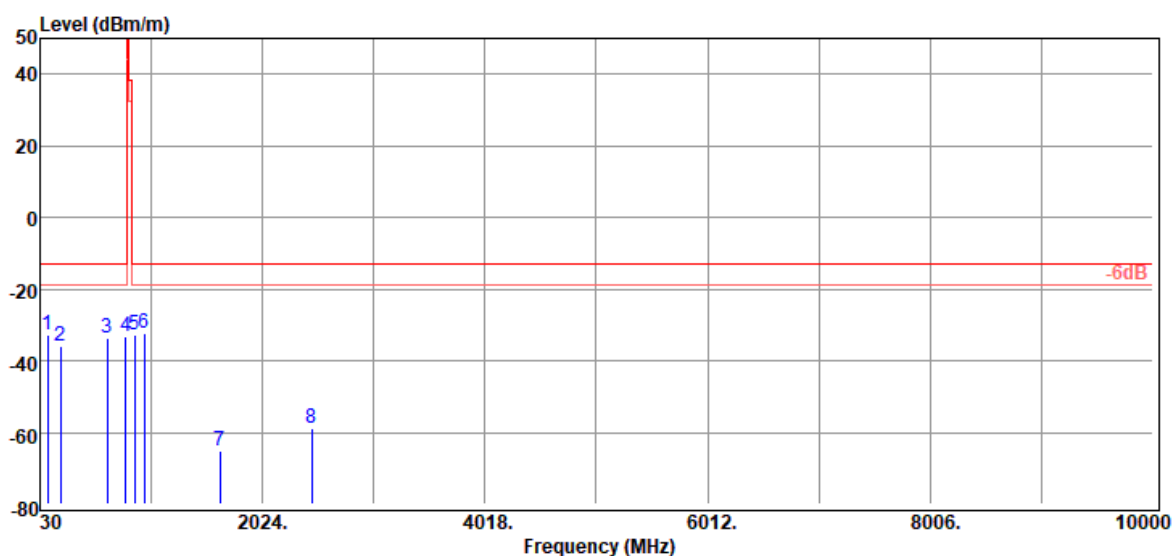
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Report Number :E2/2019/90045  
Operation Mode :LTE Part 90 B26  
Test Mode :TX CH HIGH  
EUT Pol :E2 Plan  
Test Channel :822.5 MHz

Test Date :2019-11-11  
Temp./Humi. :23.4/56  
Antenna Pol. :VERTICAL  
Engineer :Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
100.81	-32.93	-28.27	-3.35	-1.31	-13.00	-19.93
217.21	-35.77	-38.06	4.42	-2.13	-13.00	-22.77
635.28	-33.62	-34.31	4.52	-3.83	-13.00	-20.62
799.21	-33.07	-34.25	5.40	-4.22	-13.00	-20.07
879.72	-32.69	-33.04	5.25	-4.90	-13.00	-19.69
962.17	-32.40	-32.56	5.38	-5.22	-13.00	-19.40
1645.00	-65.08	-66.29	8.68	-7.47	-13.00	-52.08
2467.50	-58.85	-60.55	10.66	-8.96	-13.00	-45.85

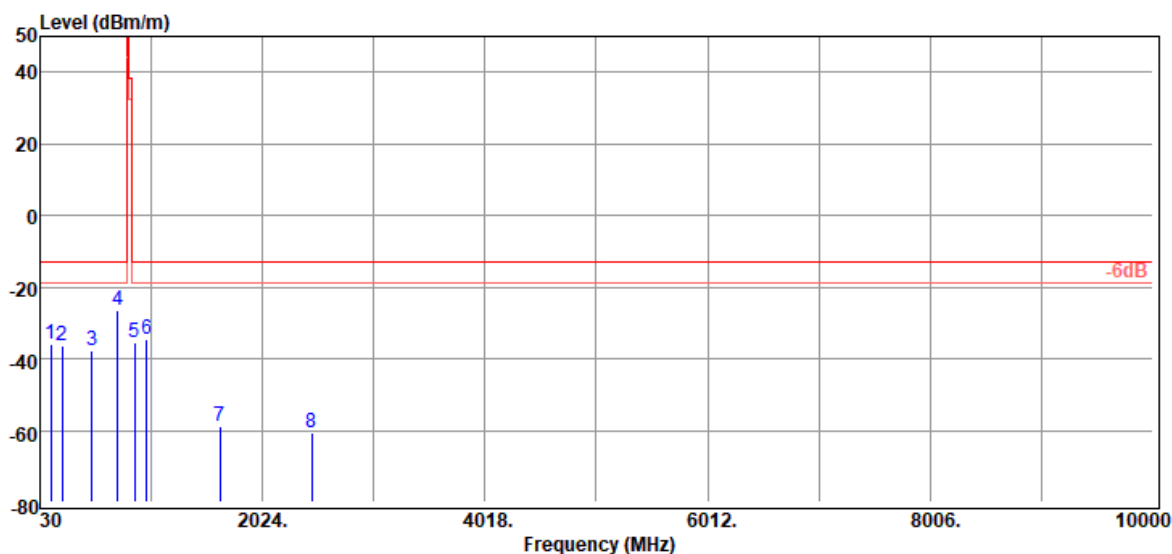
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Report Number :E2/2019/90045  
Operation Mode :LTE Part 90 B26  
Test Mode :TX CH HIGH  
EUT Pol :E2 Plan  
Test Channel :822.5 MHz

Test Date :2019-11-11  
Temp./Humi. :23.4/56  
Antenna Pol. :HORIZONTAL  
Engineer :Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
130.88	-35.95	-32.02	-2.30	-1.63	-13.00	-22.95
227.88	-36.39	-38.21	3.98	-2.16	-13.00	-23.39
493.66	-37.61	-38.30	4.15	-3.46	-13.00	-24.61
729.37	-26.50	-27.56	5.31	-4.25	-13.00	-13.50
879.72	-35.39	-35.74	5.25	-4.90	-13.00	-22.39
989.33	-34.36	-34.92	5.44	-4.88	-13.00	-21.36
1645.00	-58.81	-60.02	8.68	-7.47	-13.00	-45.81
2467.50	-60.47	-62.17	10.66	-8.96	-13.00	-47.47

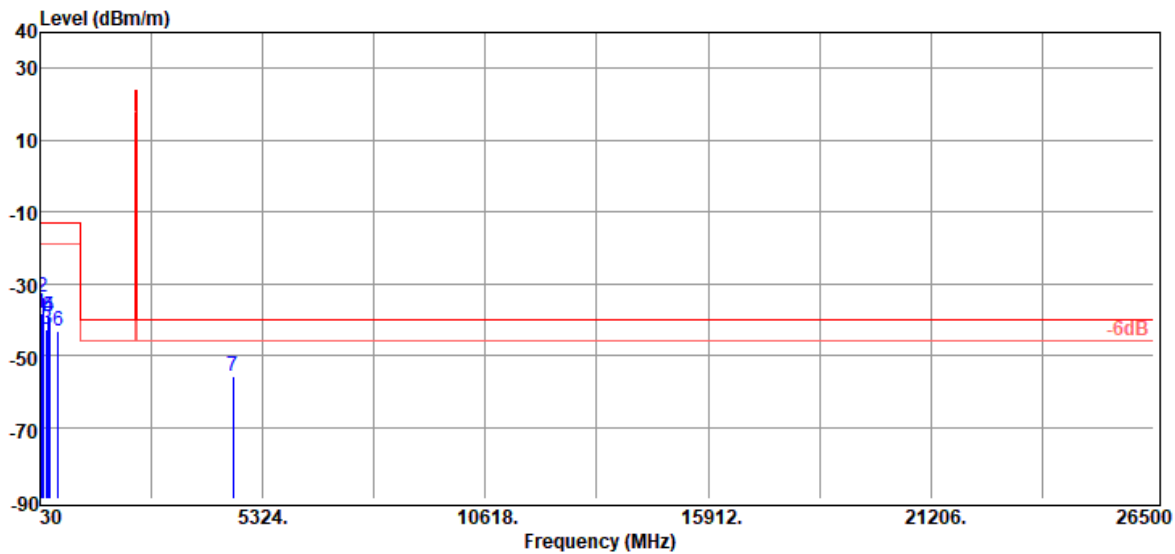
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## Radiated Spurious Emission Measurement Result: LTE-Band 30 (The Worst Case)

Report Number	:E2/2019/90045	Test Date	:2019-11-07
Operation Mode	:LTE B30	Temp./Humi.	:25/60
Test Mode	:TX CH MID	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plan	Engineer	:Enzo
Test Channel	:2310 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
49.40	-38.30	-30.06	-7.41	-0.83	-13.00	-25.30
100.81	-33.90	-29.24	-3.35	-1.31	-13.00	-20.90
191.99	-42.94	-44.99	3.93	-1.88	-13.00	-29.94
233.70	-39.24	-40.80	3.73	-2.17	-13.00	-26.24
244.37	-39.22	-40.19	3.17	-2.20	-13.00	-26.22
462.62	-43.09	-43.91	4.11	-3.29	-13.00	-30.09
4620.00	-55.94	-57.40	12.60	-11.14	-40.00	-15.94

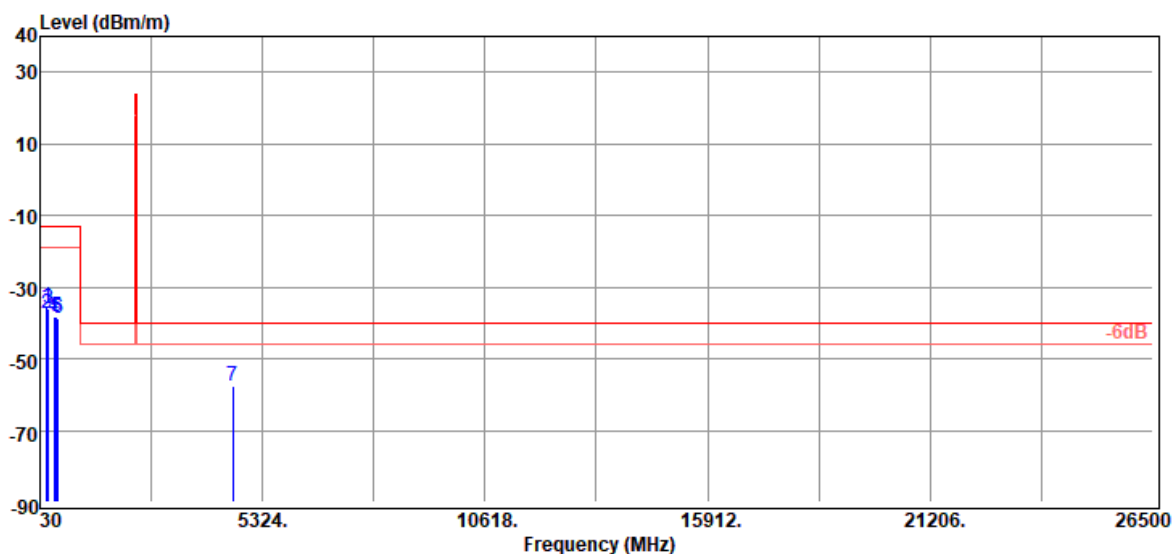
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Report Number :E2/2019/90045  
Operation Mode :LTE B30  
Test Mode :TX CH MID  
EUT Pol :E2 Plan  
Test Channel :2310 MHz

Test Date :2019-11-07  
Temp./Humi. :25/60  
Antenna Pol. :HORIZONTAL  
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
191.99	-35.44	-37.49	3.93	-1.88	-13.00	-22.44
215.27	-37.15	-39.54	4.50	-2.11	-13.00	-24.15
224.00	-35.85	-37.83	4.14	-2.16	-13.00	-22.85
374.35	-38.24	-39.11	3.72	-2.85	-13.00	-25.24
431.58	-38.22	-38.91	3.76	-3.07	-13.00	-25.22
455.83	-38.60	-39.55	4.12	-3.17	-13.00	-25.60
4620.00	-57.48	-58.94	12.60	-11.14	-40.00	-17.48

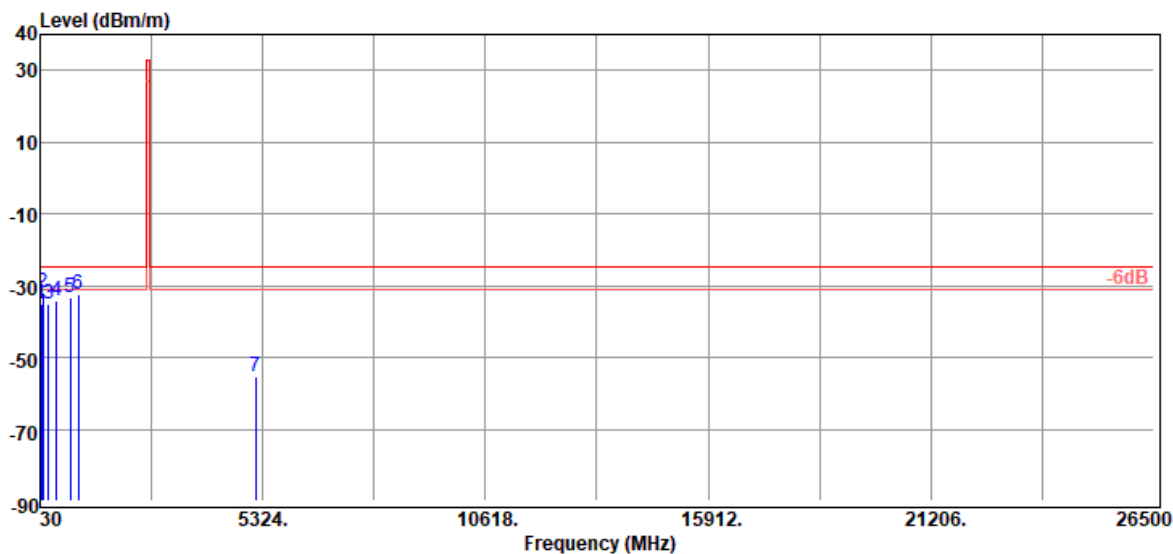
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## Radiated Spurious Emission Measurement Result: LTE-Band 38 (The Worst Case)

Report Number	:E2/2019/90045	Test Date	:2019-11-07
Operation Mode	:LTE B38	Temp./Humi.	:25/60
Test Mode	:TX CH LOW	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plan	Engineer	:Enzo
Test Channel	:2580 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
51.34	-35.08	-27.93	-6.30	-0.85	-25.00	-10.08
101.78	-31.87	-27.11	-3.44	-1.32	-25.00	-6.87
232.73	-35.19	-36.80	3.78	-2.17	-25.00	-10.19
427.70	-34.07	-34.56	3.59	-3.10	-25.00	-9.07
746.83	-33.54	-34.57	5.19	-4.16	-25.00	-8.54
938.89	-32.48	-33.13	5.43	-4.78	-25.00	-7.48
5160.00	-55.21	-56.16	12.79	-11.84	-25.00	-30.21

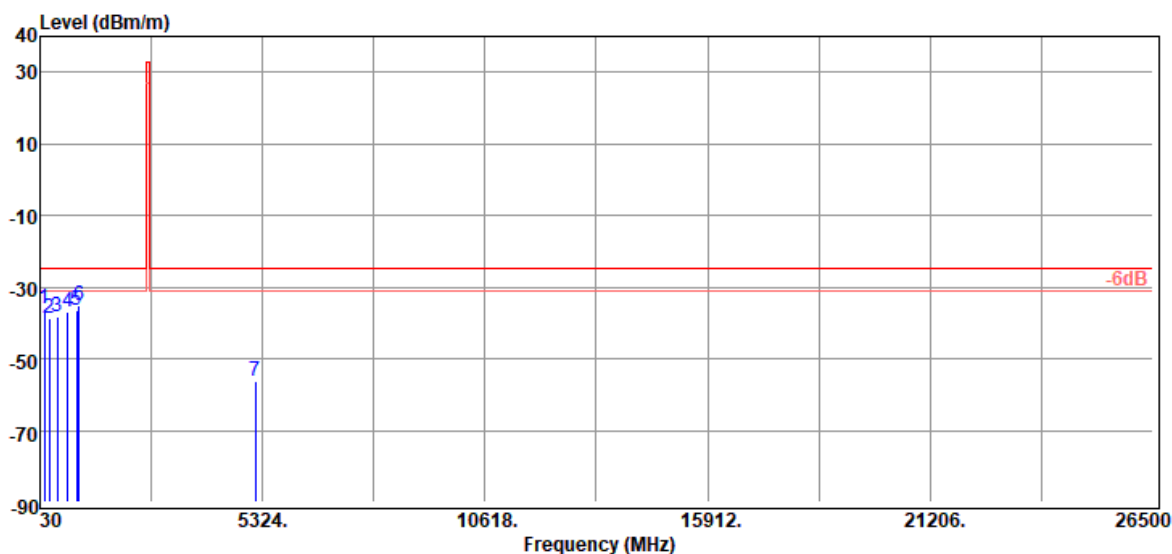
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Report Number :E2/2019/90045  
Operation Mode :LTE B38  
Test Mode :TX CH LOW  
EUT Pol :E2 Plan  
Test Channel :2580 MHz

Test Date :2019-11-07  
Temp./Humi. :25/60  
Antenna Pol. :HORIZONTAL  
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
130.88	-36.20	-32.27	-2.30	-1.63	-25.00	-11.20
253.10	-38.59	-39.16	2.78	-2.21	-25.00	-13.59
450.01	-38.22	-39.45	4.12	-2.89	-25.00	-13.22
685.72	-36.84	-37.60	4.88	-4.12	-25.00	-11.84
894.27	-36.48	-37.15	5.25	-4.58	-25.00	-11.48
960.23	-35.32	-35.51	5.41	-5.22	-25.00	-10.32
5160.00	-56.45	-57.40	12.79	-11.84	-25.00	-31.45

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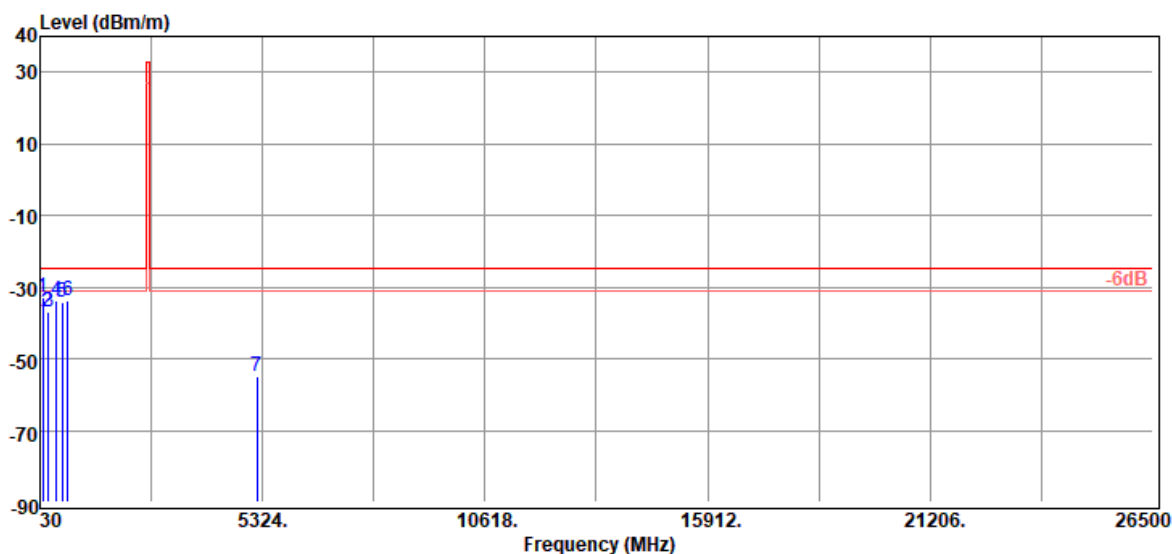
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Report Number :E2/2019/90045  
Operation Mode :LTE B38  
Test Mode :TX CH MID  
EUT Pol :E2 Plan  
Test Channel :2595 MHz

Test Date :2019-11-07  
Temp./Humi. :25/60  
Antenna Pol. :VERTICAL  
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
98.87	-32.96	-28.38	-3.30	-1.28	-25.00	-7.96
204.60	-37.09	-38.45	3.41	-2.05	-25.00	-12.09
228.85	-37.01	-38.79	3.94	-2.16	-25.00	-12.01
424.79	-33.63	-33.95	3.42	-3.10	-25.00	-8.63
555.74	-34.31	-34.80	4.06	-3.57	-25.00	-9.31
696.39	-33.89	-34.71	5.08	-4.26	-25.00	-8.89
5190.00	-54.90	-55.79	12.83	-11.94	-25.00	-29.90

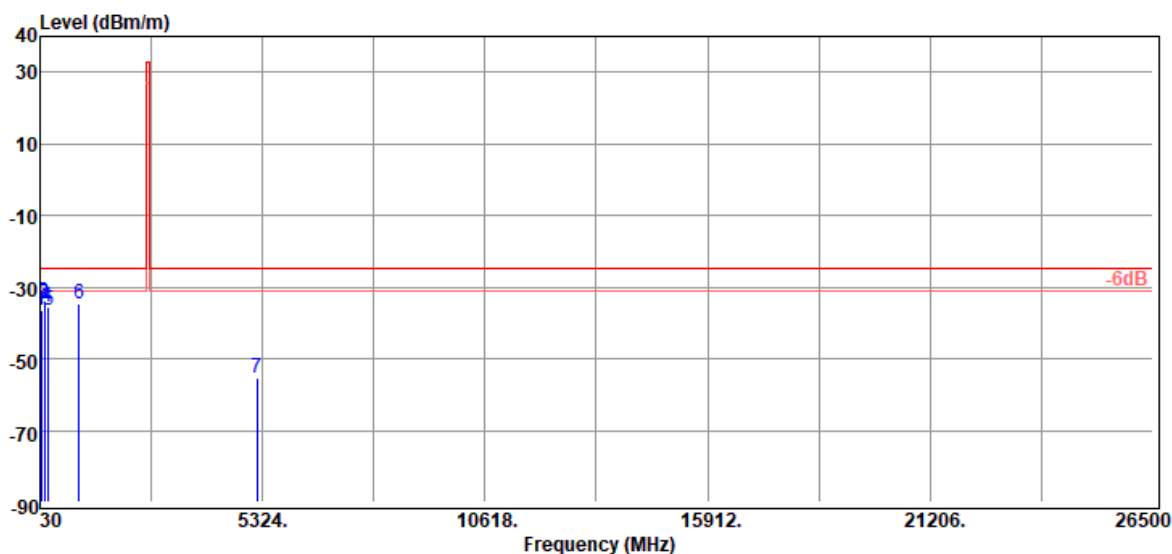
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Report Number :E2/2019/90045  
Operation Mode :LTE B38  
Test Mode :TX CH MID  
EUT Pol :E2 Plan  
Test Channel :2595 MHz

Test Date :2019-11-07  
Temp./Humi. :25/60  
Antenna Pol. :HORIZONTAL  
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
65.89	-36.47	-33.62	-1.88	-0.97	-25.00	-11.47
130.88	-34.62	-30.69	-2.30	-1.63	-25.00	-9.62
144.46	-34.37	-32.33	-0.40	-1.64	-25.00	-9.37
218.18	-35.44	-37.68	4.38	-2.14	-25.00	-10.44
228.85	-36.32	-38.10	3.94	-2.16	-25.00	-11.32
962.17	-34.85	-35.01	5.38	-5.22	-25.00	-9.85
5190.00	-55.57	-56.46	12.83	-11.94	-25.00	-30.57

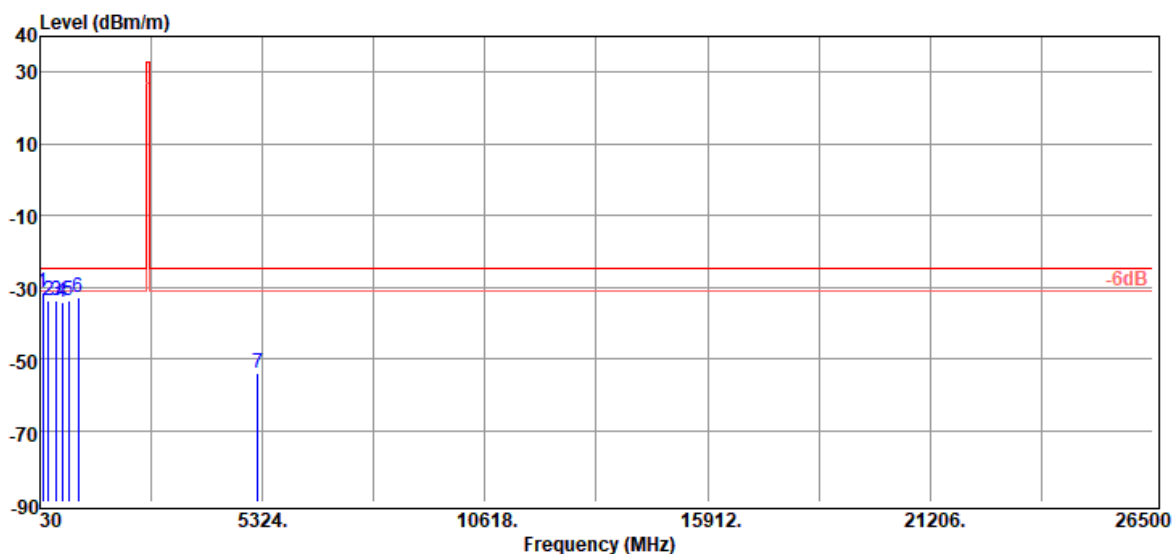
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Report Number :E2/2019/90045  
Operation Mode :LTE B38  
Test Mode :TX CH HIGH  
EUT Pol :E2 Plan  
Test Channel :2610 MHz

Test Date :2019-11-07  
Temp./Humi. :25/60  
Antenna Pol. :VERTICAL  
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
100.81	-31.53	-26.87	-3.35	-1.31	-25.00	-6.53
224.00	-33.81	-35.79	4.14	-2.16	-25.00	-8.81
418.00	-33.96	-33.98	3.14	-3.12	-25.00	-8.96
552.83	-34.34	-34.63	3.97	-3.68	-25.00	-9.34
703.18	-33.97	-34.96	5.13	-4.14	-25.00	-8.97
947.62	-32.76	-33.38	5.39	-4.77	-25.00	-7.76
5220.00	-54.15	-55.09	12.86	-11.92	-25.00	-29.15

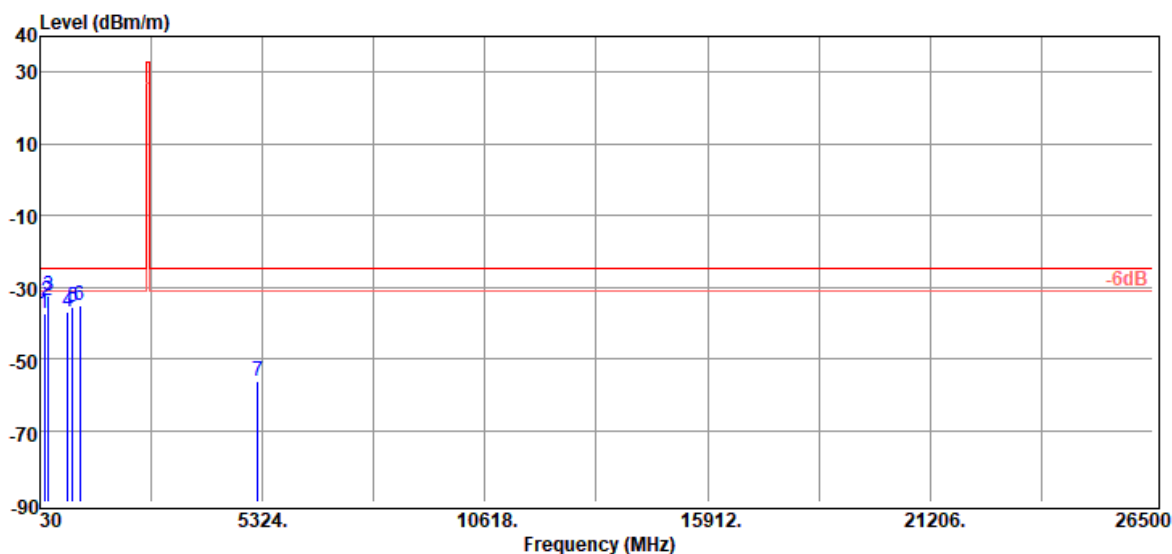
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Report Number :E2/2019/90045  
Operation Mode :LTE B38  
Test Mode :TX CH HIGH  
EUT Pol :E2 Plan  
Test Channel :2610 MHz

Test Date :2019-11-07  
Temp./Humi. :25/60  
Antenna Pol. :HORIZONTAL  
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
132.82	-37.44	-33.90	-1.91	-1.63	-25.00	-12.44
220.12	-33.93	-36.07	4.30	-2.16	-25.00	-8.93
228.85	-32.59	-34.37	3.94	-2.16	-25.00	-7.59
685.72	-36.71	-37.47	4.88	-4.12	-25.00	-11.71
814.73	-35.49	-36.63	5.48	-4.34	-25.00	-10.49
973.81	-35.28	-35.54	5.35	-5.09	-25.00	-10.28
5220.00	-56.04	-56.98	12.86	-11.92	-25.00	-31.04

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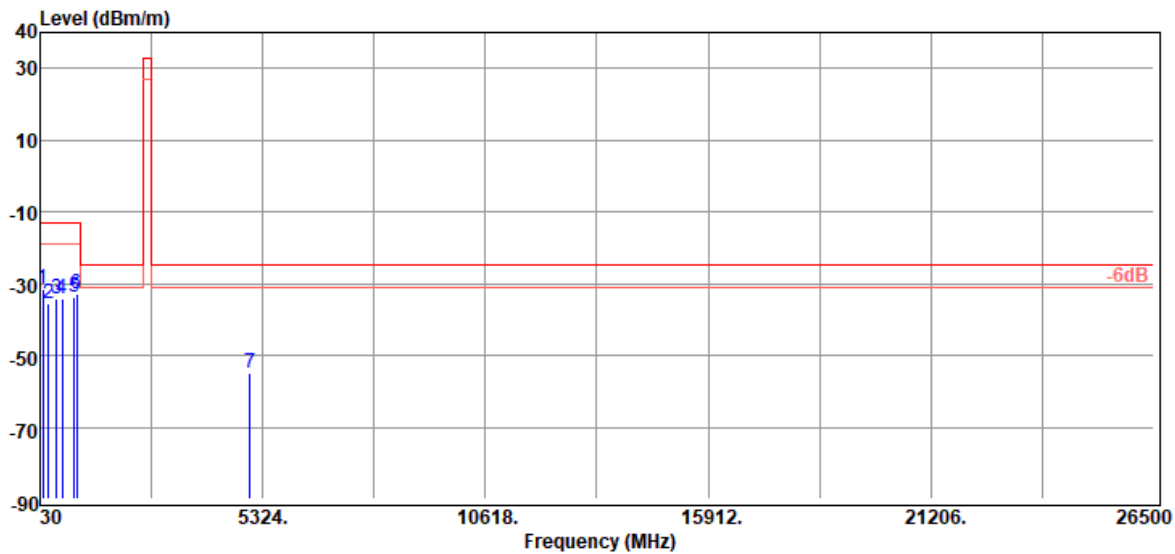
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## Radiated Spurious Emission Measurement Result: LTE-Band 41 (The Worst Case)

Report Number :E2/2019/90045  
Operation Mode :LTE B41  
Test Mode :TX CH LOW  
EUT Pol :E2 Plan  
Test Channel :2506 MHz

Test Date :2019-11-07  
Temp./Humi. :25/60  
Antenna Pol. :VERTICAL  
Engineer :Enzo



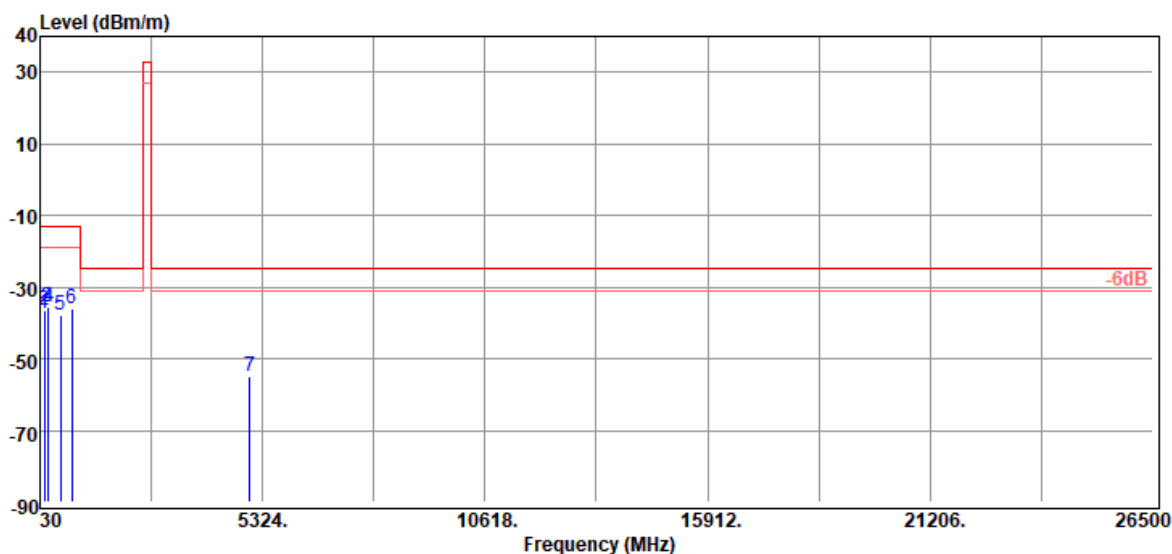
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
101.78	-31.63	-26.87	-3.44	-1.32	-13.00	-18.63
235.64	-35.59	-37.05	3.64	-2.18	-13.00	-22.59
420.91	-34.32	-34.48	3.26	-3.10	-13.00	-21.32
547.98	-34.08	-34.30	3.88	-3.66	-13.00	-21.08
837.04	-33.58	-34.40	5.33	-4.51	-13.00	-20.58
909.79	-32.81	-33.49	5.34	-4.66	-13.00	-19.81
5012.00	-54.99	-56.20	12.61	-11.40	-25.00	-29.99

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Report Number :E2/2019/90045  
Operation Mode :LTE B41  
Test Mode :TX CH LOW  
EUT Pol :E2 Plan  
Test Channel :2506 MHz

Test Date :2019-11-07  
Temp./Humi. :25/60  
Antenna Pol. :HORIZONTAL  
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
130.88	-37.22	-33.29	-2.30	-1.63	-13.00	-24.22
139.61	-36.45	-33.70	-1.12	-1.63	-13.00	-23.45
217.21	-35.55	-37.84	4.42	-2.13	-13.00	-22.55
229.82	-35.61	-37.35	3.90	-2.16	-13.00	-22.61
511.12	-37.94	-38.61	4.21	-3.54	-13.00	-24.94
786.60	-36.09	-36.76	5.28	-4.61	-13.00	-23.09
5012.00	-54.72	-55.93	12.61	-11.40	-25.00	-29.72

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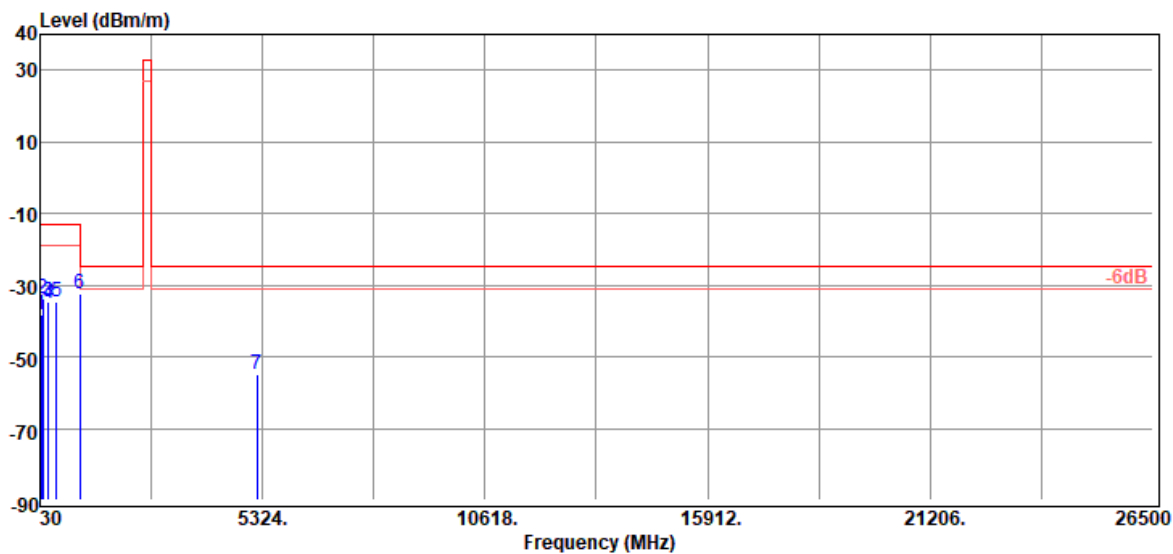
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Report Number :E2/2019/90045  
Operation Mode :LTE B41  
Test Mode :TX CH MID  
EUT Pol :E2 Plan  
Test Channel :2593 MHz

Test Date :2019-11-07  
Temp./Humi. :25/60  
Antenna Pol. :VERTICAL  
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
51.34	-38.05	-30.90	-6.30	-0.85	-13.00	-25.05
103.72	-33.95	-29.14	-3.47	-1.34	-13.00	-20.95
224.00	-34.66	-36.64	4.14	-2.16	-13.00	-21.66
239.52	-34.90	-36.09	3.39	-2.20	-13.00	-21.90
416.06	-34.57	-34.49	3.06	-3.14	-13.00	-21.57
983.51	-32.24	-32.60	5.24	-4.88	-13.00	-19.24
5186.00	-54.80	-55.69	12.82	-11.93	-25.00	-29.80

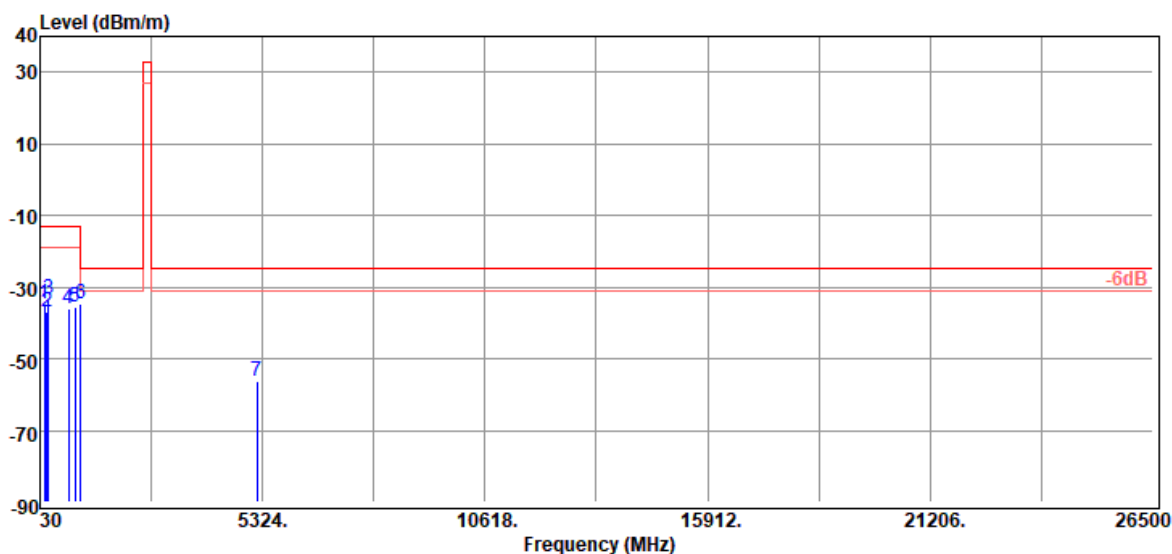
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Report Number :E2/2019/90045  
Operation Mode :LTE B41  
Test Mode :TX CH MID  
EUT Pol :E2 Plan  
Test Channel :2593 MHz

Test Date :2019-11-07  
Temp./Humi. :25/60  
Antenna Pol. :HORIZONTAL  
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
136.70	-34.51	-31.35	-1.53	-1.63	-13.00	-21.51
190.05	-36.70	-38.80	3.94	-1.84	-13.00	-23.70
226.91	-33.54	-35.40	4.02	-2.16	-13.00	-20.54
712.88	-36.06	-37.41	5.22	-3.87	-13.00	-23.06
867.11	-35.49	-35.99	5.28	-4.78	-13.00	-22.49
992.24	-34.57	-35.15	5.49	-4.91	-13.00	-21.57
5186.00	-56.05	-56.94	12.82	-11.93	-25.00	-31.05

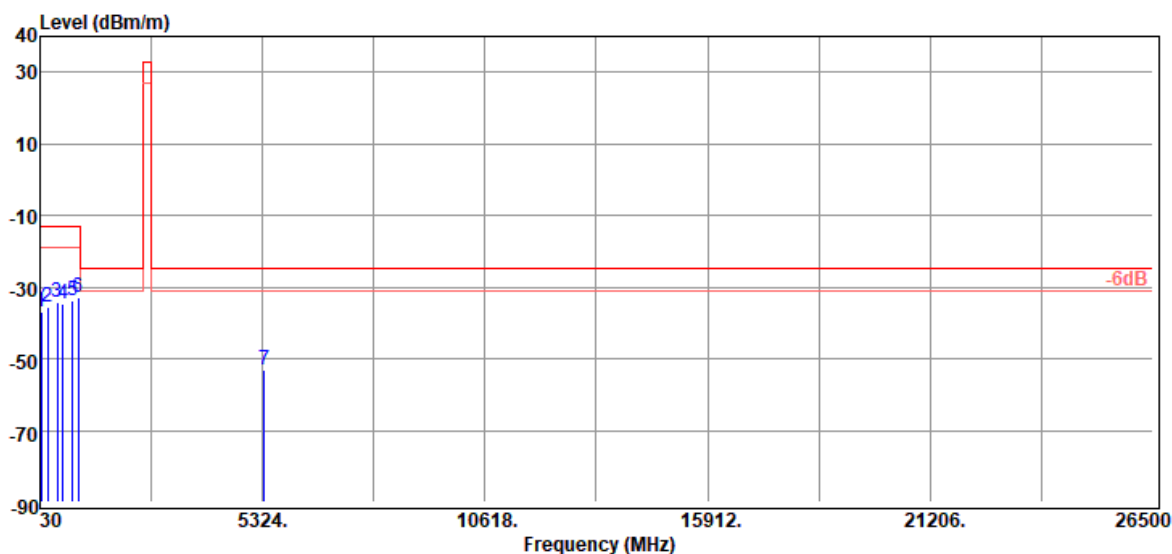
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Report Number :E2/2019/90045  
Operation Mode :LTE B41  
Test Mode :TX CH HIGH  
EUT Pol :E2 Plan  
Test Channel :2680 MHz

Test Date :2019-11-07  
Temp./Humi. :25/60  
Antenna Pol. :VERTICAL  
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
50.37	-37.08	-29.39	-6.85	-0.84	-13.00	-24.08
219.15	-35.43	-37.62	4.34	-2.15	-13.00	-22.43
434.49	-34.44	-35.25	3.82	-3.01	-13.00	-21.44
578.05	-34.46	-35.10	4.30	-3.66	-13.00	-21.46
810.85	-33.64	-34.86	5.44	-4.22	-13.00	-20.64
935.01	-32.80	-33.47	5.48	-4.81	-13.00	-19.80
5360.00	-53.19	-54.77	13.03	-11.45	-25.00	-28.19

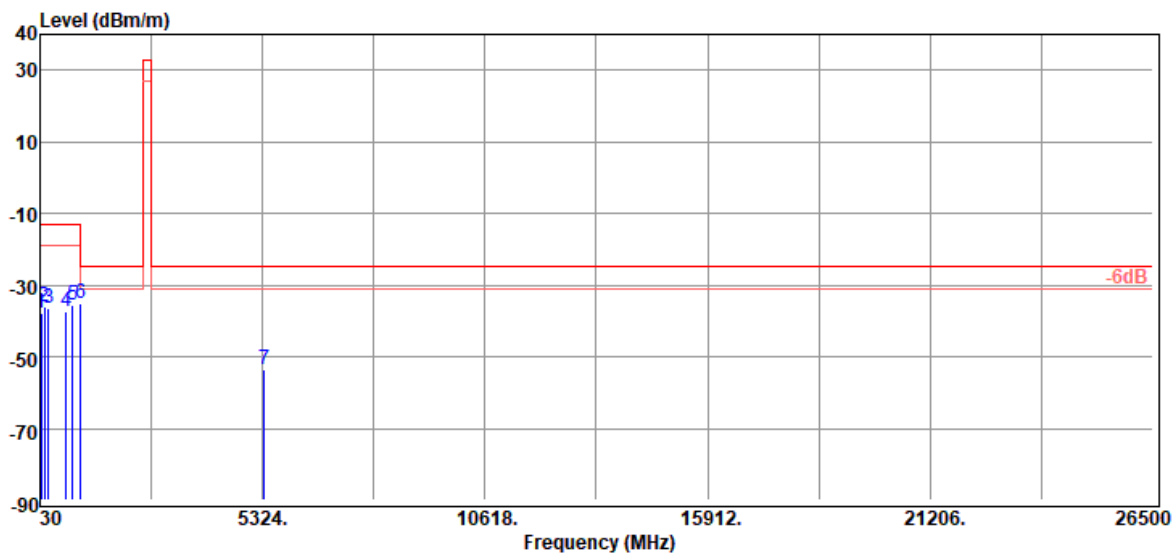
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Report Number :E2/2019/90045  
Operation Mode :LTE B41  
Test Mode :TX CH HIGH  
EUT Pol :E2 Plan  
Test Channel :2680 MHz

Test Date :2019-11-07  
Temp./Humi. :25/60  
Antenna Pol. :HORIZONTAL  
Engineer :Enzo



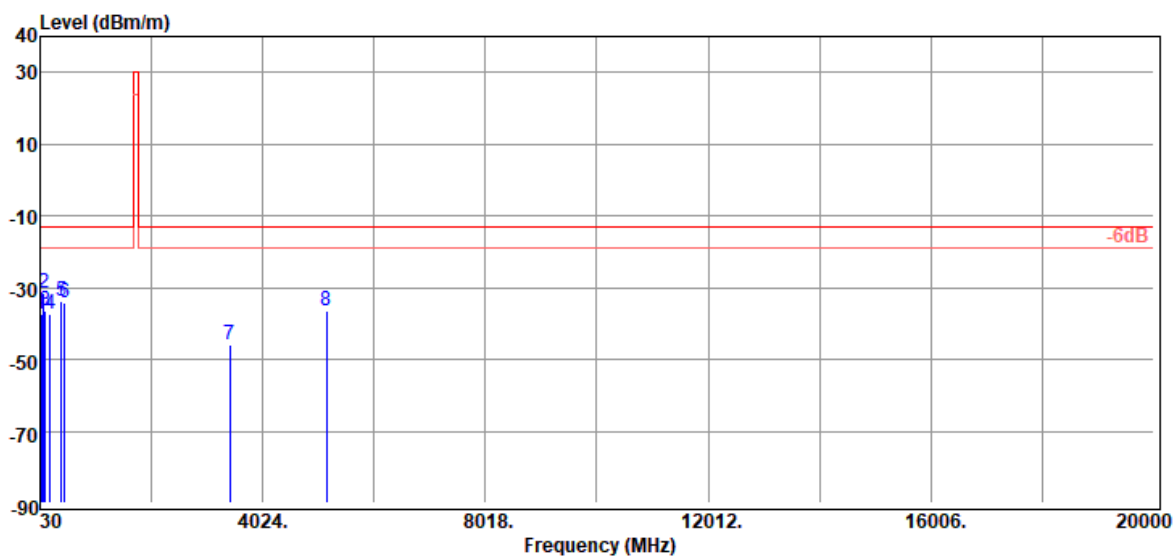
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
62.98	-37.77	-34.45	-2.35	-0.97	-13.00	-24.77
144.46	-35.92	-33.88	-0.40	-1.64	-13.00	-22.92
226.91	-36.25	-38.11	4.02	-2.16	-13.00	-23.25
656.62	-37.50	-38.34	4.60	-3.76	-13.00	-24.50
806.00	-35.72	-37.00	5.47	-4.19	-13.00	-22.72
992.24	-34.97	-35.55	5.49	-4.91	-13.00	-21.97
5360.00	-53.74	-55.32	13.03	-11.45	-25.00	-28.74

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

Report Number	:E2/2019/90045	Test Date	:2019-11-07
Operation Mode	:LTE B66	Temp./Humi.	:25/60
Test Mode	:TX CH LOW	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plan	Engineer	:Enzo
Test Channel	:1720 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
50.37	-37.20	-29.51	-6.85	-0.84	-13.00	-24.20
99.84	-31.37	-26.73	-3.34	-1.30	-13.00	-18.37
125.06	-36.25	-31.92	-2.80	-1.53	-13.00	-23.25
215.27	-37.45	-39.84	4.50	-2.11	-13.00	-24.45
409.27	-33.62	-33.66	3.23	-3.19	-13.00	-20.62
465.53	-34.01	-34.90	4.10	-3.21	-13.00	-21.01
3440.00	-46.06	-47.16	12.26	-11.16	-13.00	-33.06
5160.00	-36.51	-37.46	12.79	-11.84	-13.00	-23.51

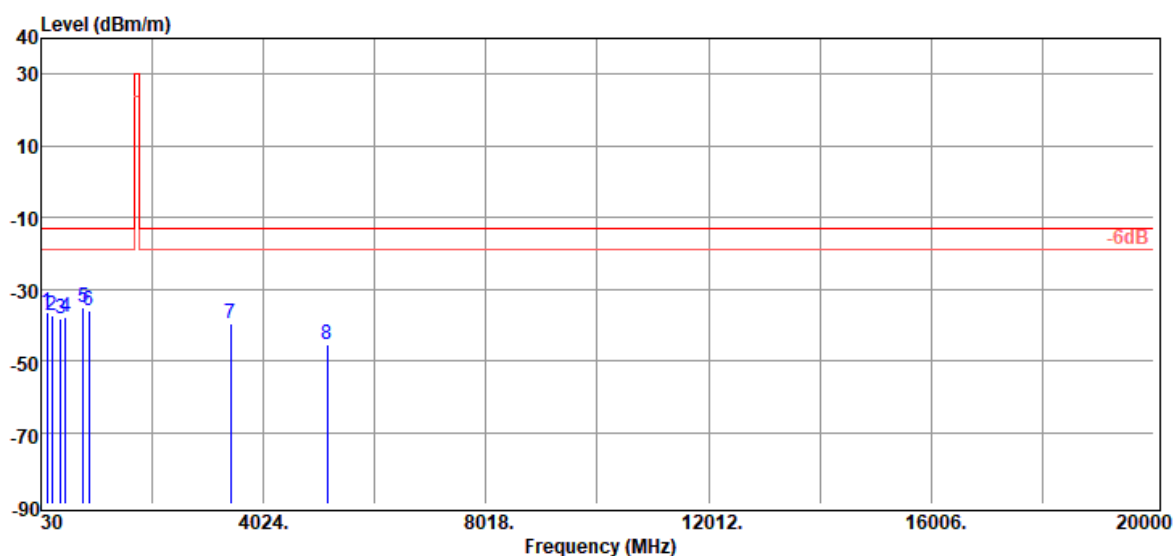
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Report Number :E2/2019/90045  
Operation Mode :LTE B66  
Test Mode :TX CH LOW  
EUT Pol :E2 Plan  
Test Channel :1720 MHz

Test Date :2019-11-07  
Temp./Humi. :25/60  
Antenna Pol. :HORIZONTAL  
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
136.70	-36.49	-33.33	-1.53	-1.63	-13.00	-23.49
218.18	-37.60	-39.84	4.38	-2.14	-13.00	-24.60
385.02	-38.27	-39.23	3.77	-2.81	-13.00	-25.27
469.41	-38.01	-38.92	4.01	-3.10	-13.00	-25.01
794.36	-34.98	-35.83	5.28	-4.43	-13.00	-21.98
892.33	-36.03	-36.70	5.25	-4.58	-13.00	-23.03
3440.00	-39.78	-40.88	12.26	-11.16	-13.00	-26.78
5160.00	-45.40	-46.35	12.79	-11.84	-13.00	-32.40

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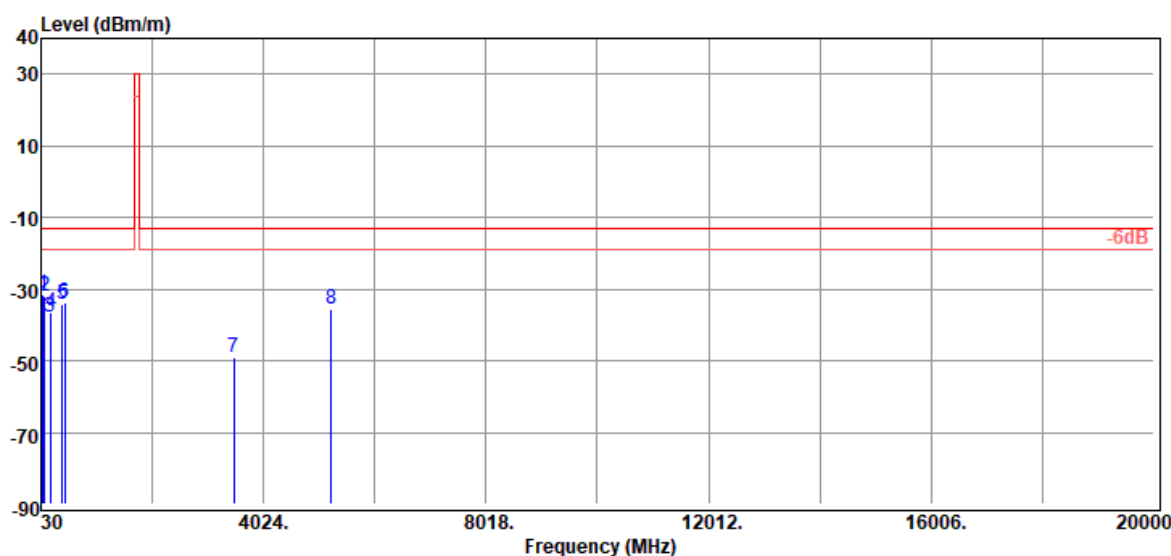
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Report Number :E2/2019/90045  
Operation Mode :LTE B66  
Test Mode :TX CH MID  
EUT Pol :E2 Plan  
Test Channel :1745 MHz

Test Date :2019-11-07  
Temp./Humi. :25/60  
Antenna Pol. :VERTICAL  
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
67.83	-31.73	-28.98	-1.78	-0.97	-13.00	-18.73
99.84	-32.07	-27.43	-3.34	-1.30	-13.00	-19.07
189.08	-37.77	-39.93	3.99	-1.83	-13.00	-24.77
217.21	-36.43	-38.72	4.42	-2.13	-13.00	-23.43
419.94	-34.30	-34.42	3.22	-3.10	-13.00	-21.30
455.83	-33.77	-34.72	4.12	-3.17	-13.00	-20.77
3490.00	-48.94	-50.48	12.38	-10.84	-13.00	-35.94
5235.00	-35.53	-36.53	12.88	-11.88	-13.00	-22.53

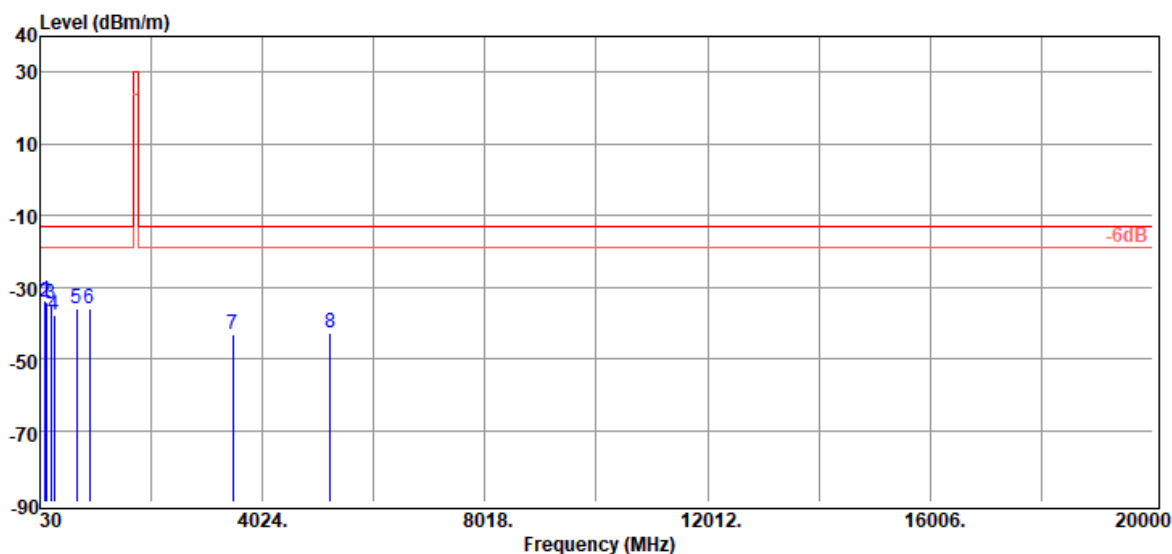
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Report Number :E2/2019/90045  
Operation Mode :LTE B66  
Test Mode :TX CH MID  
EUT Pol :E2 Plan  
Test Channel :1745 MHz

Test Date :2019-11-07  
Temp./Humi. :25/60  
Antenna Pol. :HORIZONTAL  
Engineer :Enzo



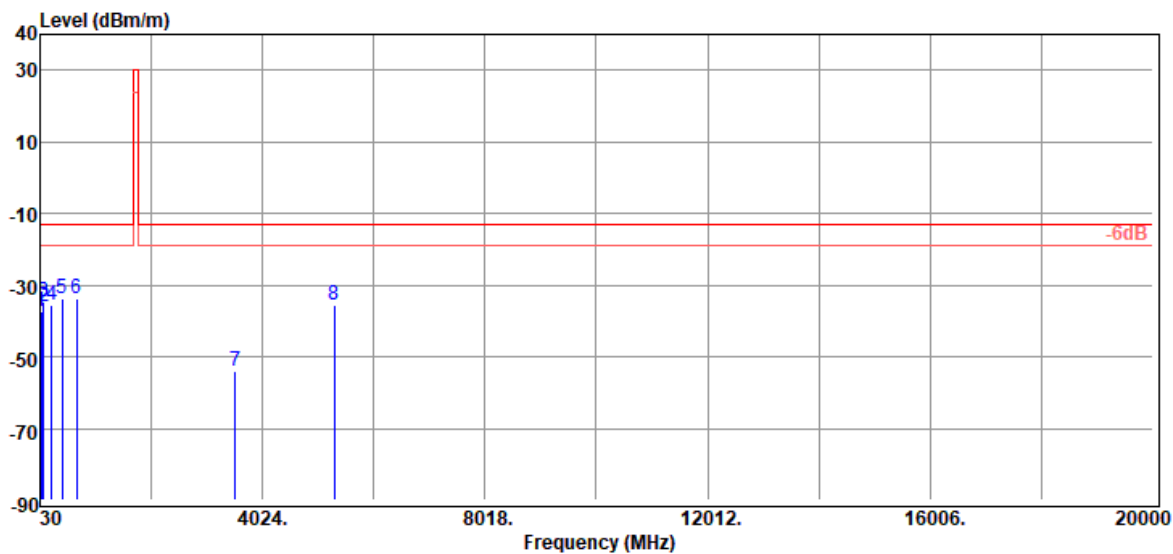
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
124.09	-33.61	-29.15	-2.95	-1.51	-13.00	-20.61
139.61	-34.21	-31.46	-1.12	-1.63	-13.00	-21.21
221.09	-34.62	-36.72	4.26	-2.16	-13.00	-21.62
280.26	-37.72	-38.75	3.41	-2.38	-13.00	-24.72
690.57	-36.10	-36.79	4.95	-4.26	-13.00	-23.10
912.70	-35.92	-36.63	5.42	-4.71	-13.00	-22.92
3490.00	-43.15	-44.69	12.38	-10.84	-13.00	-30.15
5235.00	-42.70	-43.70	12.88	-11.88	-13.00	-29.70

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Report Number :E2/2019/90045  
Operation Mode :LTE B66  
Test Mode :TX CH HIGH  
EUT Pol :E2 Plan  
Test Channel :1770 MHz

Test Date :2019-11-07  
Temp./Humi. :25/60  
Antenna Pol. :VERTICAL  
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
49.40	-37.21	-28.97	-7.41	-0.83	-13.00	-24.21
92.08	-36.12	-32.58	-2.37	-1.17	-13.00	-23.12
97.90	-34.46	-30.08	-3.12	-1.26	-13.00	-21.46
241.46	-35.68	-36.78	3.30	-2.20	-13.00	-22.68
423.82	-33.99	-34.27	3.38	-3.10	-13.00	-20.99
683.78	-33.83	-34.64	4.86	-4.05	-13.00	-20.83
3540.00	-53.95	-55.41	12.42	-10.96	-13.00	-40.95
5310.00	-35.49	-36.80	12.97	-11.66	-13.00	-22.49

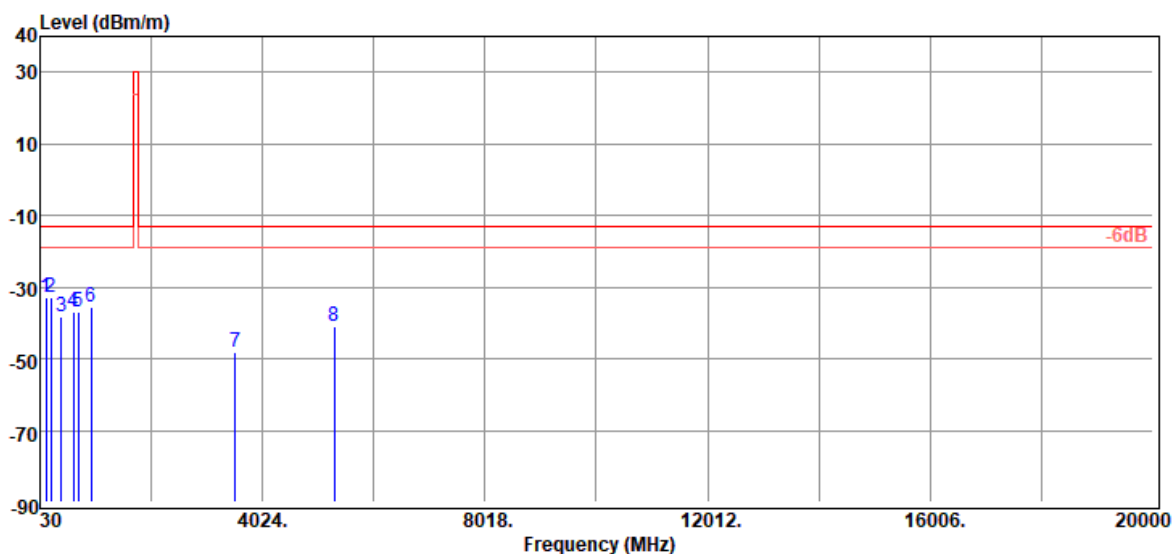
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Report Number :E2/2019/90045  
Operation Mode :LTE B66  
Test Mode :TX CH HIGH  
EUT Pol :E2 Plan  
Test Channel :1770 MHz

Test Date :2019-11-07  
Temp./Humi. :25/60  
Antenna Pol. :HORIZONTAL  
Engineer :Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
134.76	-32.98	-29.58	-1.77	-1.63	-13.00	-19.98
219.15	-32.70	-34.89	4.34	-2.15	-13.00	-19.70
418.97	-38.43	-38.50	3.18	-3.11	-13.00	-25.43
632.37	-36.91	-37.72	4.48	-3.67	-13.00	-23.91
716.76	-36.81	-38.18	5.24	-3.87	-13.00	-23.81
947.62	-35.63	-36.25	5.39	-4.77	-13.00	-22.63
3540.00	-48.31	-49.77	12.42	-10.96	-13.00	-35.31
5310.00	-40.80	-42.11	12.97	-11.66	-13.00	-27.80

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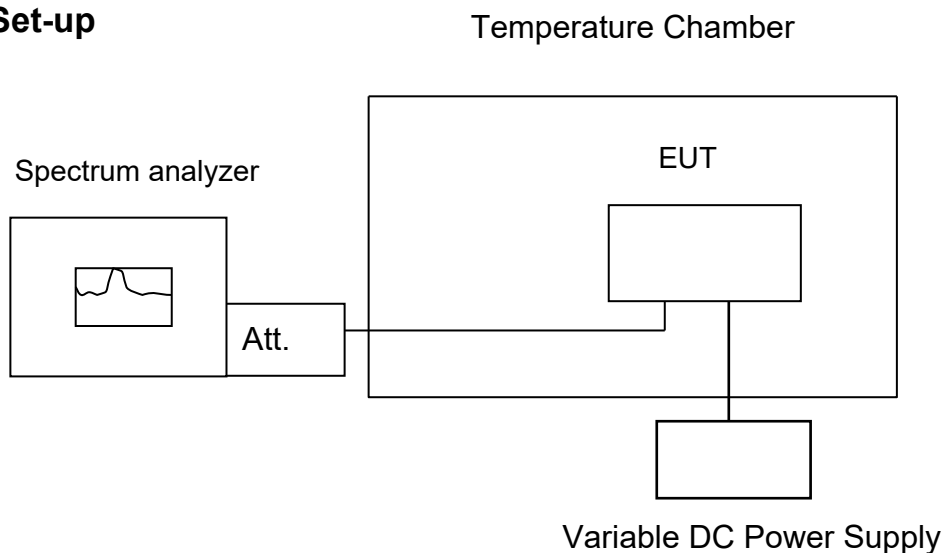
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## 10. FREQUENCY STABILITY MEASUREMENT

### 10.1. Standard Applicabl

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block specified by the regulations (which can be found in section 11.5 tabler tabular result). The frequency stability of the transmitter shall be maintained with  $\pm 0.00025\%$  ( $\pm 2.5$  ppm) of the center frequency.

### 10.2. Test Set-up



**Note:** Measurement setup for testing on Antenna connector

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### 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.

### 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	KEYSIGHT	N9010A	MY57120200	03/06/2019	03/05/2020
DC Power Supply	Agilent	E3640A	MY53140006	05/31/2019	05/30/2020
Radio Communication Analyzer	Anritsu	MT8820C	6201107337	07/17/2019	07/16/2020
Attenuator	Marvelous	MVE2213-10	RF31	12/25/2018	12/24/2019
Splitter	Marvelous	MVE8576	RF38	12/25/2018	12/24/2019
DC Block	PASTERNAK	PE8210	RF81	12/25/2018	12/24/2019
Coaxial Cables	Woken	00100A1F1A185C	RF220	12/25/2018	12/24/2019

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## 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				
8.7	20	1880.000009	9	4700
7.66	20	1880.000005	5	4700
6	20	1880.000001	1	4700
6 (End point)	20	1880.000001	1	4700
FREQUENCY ERROR vs. Temp.				
7.66	50	1880.000006	6	4700
7.66	40	1880.000004	4	4700
7.66	30	1880.000001	1	4700
7.66	20	1879.999998	-2	4700
7.66	10	1880.000003	3	4700
7.66	0	1879.999998	-2	4700
7.66	-10	1879.999996	-4	4700
7.66	-20	1880	0	4700
7.66	-30	1880.000002	2	4700

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WCDMA V Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm				
Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit (Hz)
FREQUENCY ERROR vs. VOLTAGE				
8.7	20	836.60001	10	2091
7.66	20	836.600007	7	2091
6	20	836.600003	3	2091
6 (End point)	20	836.600003	3	2091
FREQUENCY ERROR vs. Temp.				
7.66	50	836.600007	7	2091
7.66	40	836.600005	5	2091
7.66	30	836.600001	1	2091
7.66	20	836.599997	-3	2091
7.66	10	836.600002	2	2091
7.66	0	836.599999	-1	2091
7.66	-10	836.600004	4	2091
7.66	-20	836.599998	-2	2091
7.66	-30	836.599995	-5	2091

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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					
8.7	25	1880.000005	5	4700	
7.66	25	1880.000001	1	4700	
6	25	1879.999996	-4	4700	
6 (End Point)	25	1879.999996	-4	4700	
Freq. ERROR vs. Temp.					
7.66	-30	1880.000006	6	4700	
7.66	-20	1880.000003	3	4700	
7.66	-10	1879.999998	-2	4700	
7.66	0	1880.000004	4	4700	
7.66	10	1879.999999	-1	4700	
7.66	20	1880.000000	0	4700	
7.66	30	1880.000005	5	4700	
7.66	40	1880.000007	7	4700	
7.66	50	1879.999997	-3	4700	

Reference Freq.:		LTE B4 Mid Channel		1732.5	MHz 20M QPSK CH 20175
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)	
Freq. ERROR vs. VOLTAGE					
8.7	25	1732.500009	9	4331	
7.66	25	1732.500004	4	4331	
6	25	1732.500002	2	4331	
6 (End Point)	25	1732.500002	2	4331	
Freq. ERROR vs. Temp.					
7.66	-30	1732.499997	-3	4331	
7.66	-20	1732.499995	-5	4331	
7.66	-10	1732.499999	-1	4331	
7.66	0	1732.500004	4	4331	
7.66	10	1732.500002	2	4331	
7.66	20	1732.500006	6	4331	
7.66	30	1732.499998	-2	4331	
7.66	40	1732.500005	5	4331	
7.66	50	1732.500008	8	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					
8.7	25	836.500006	6	2091	
7.66	25	836.500003	3	2091	
6	25	836.499999	-1	2091	
6 (End Point)	25	836.499999	-1	2091	
Freq. ERROR vs. Temp.					
7.66	-30	836.500005	5	2091	
7.66	-20	836.500008	8	2091	
7.66	-10	836.500004	4	2091	
7.66	0	836.499999	-1	2091	
7.66	10	836.499995	-5	2091	
7.66	20	836.499997	-3	2091	
7.66	30	836.499994	-6	2091	
7.66	40	836.500002	2	2091	
7.66	50	836.500007	7	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					
8.7	25	2535.000009	9	6338	
7.66	25	2535.000006	6	6338	
6	25	2535.000001	1	6338	
6 (End Point)	25	2535.000001	1	6338	
Freq. ERROR vs. Temp.					
7.66	-30	2534.999994	-6	6338	
7.66	-20	2534.999999	-1	6338	
7.66	-10	2535.000003	3	6338	
7.66	0	2534.999998	-2	6338	
7.66	10	2535.000004	4	6338	
7.66	20	2534.999997	-3	6338	
7.66	30	2535.000005	5	6338	
7.66	40	2535.000001	1	6338	
7.66	50	2534.999996	-4	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					
8.7	25	707.500010	10	1769	
7.66	25	707.500005	5	1769	
6	25	707.500001	1	1769	
6 (End Point)	25	707.500001	1	1769	
Freq. ERROR vs. Temp.					
7.66	-30	707.500009	9	1769	
7.66	-20	707.500004	4	1769	
7.66	-10	707.500007	7	1769	
7.66	0	707.500003	3	1769	
7.66	10	707.499999	-1	1769	
7.66	20	707.500002	2	1769	
7.66	30	707.499997	-3	1769	
7.66	40	707.499995	-5	1769	
7.66	50	707.500001	1	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					
8.7	25	782.000011	11	1955	
7.66	25	782.000006	6	1955	
6	25	782.000002	2	1955	
6 (End Point)	25	782.000002	2	1955	
Freq. ERROR vs. Temp.					
7.66	-30	782.000007	7	1955	
7.66	-20	782.000005	5	1955	
7.66	-10	782.000008	8	1955	
7.66	0	782.000004	4	1955	
7.66	10	782.000001	1	1955	
7.66	20	781.999998	-2	1955	
7.66	30	782.000003	3	1955	
7.66	40	781.999999	-1	1955	
7.66	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 = +/- 1.25 ppm (Hz)	
Freq. ERROR vs. VOLTAGE					
8.7	25	793.000008	8	1983	
7.66	25	793.000004	4	1983	
6	25	792.999999	-1	1983	
6 (End Point)	25	792.999999	-1	1983	
Freq. ERROR vs. Temp.					
7.66	-30	793.000006	6	1983	
7.66	-20	793.000003	3	1983	
7.66	-10	793.000007	7	1983	
7.66	0	793.000004	4	1983	
7.66	10	793.000002	2	1983	
7.66	20	792.999997	-3	1983	
7.66	30	792.999994	-6	1983	
7.66	40	792.999999	-1	1983	
7.66	50	792.999995	-5	1983	

Reference Freq.:		LTE B25 Mid Channel		1882.5	MHz 20M QPSK CH 26365
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)	
Freq. ERROR vs. VOLTAGE					
8.7	25	1882.500010	10	4700	
7.66	25	1882.500007	7	4700	
6	25	1882.500004	4	4700	
6 (End Point)	25	1882.500004	4	4700	
Freq. ERROR vs. Temp.					
7.66	-30	1882.500005	5	4700	
7.66	-20	1882.500001	1	4700	
7.66	-10	1882.500006	6	4700	
7.66	0	1882.500002	2	4700	
7.66	10	1882.499997	-3	4700	
7.66	20	1882.499999	-1	4700	
7.66	30	1882.499996	-4	4700	
7.66	40	1882.499993	-7	4700	
7.66	50	1882.499998	-2	4700	

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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					
8.7	25	831.500009	9	2091	
7.66	25	831.500004	4	2091	
6	25	831.499999	-1	2091	
6 (End Point)	25	831.499999	-1	2091	
Freq. ERROR vs. Temp.					
7.66	-30	831.500008	8	2091	
7.66	-20	831.500005	5	2091	
7.66	-10	831.500007	7	2091	
7.66	0	831.499999	-1	2091	
7.66	10	831.499996	-4	2091	
7.66	20	831.500002	2	2091	
7.66	30	831.500006	6	2091	
7.66	40	831.500003	3	2091	
7.66	50	831.499998	-2	2091	

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)					
8.7	25	819.000007	7	2048	
7.66	25	819.000003	3	2048	
6	25	818.999999	-1	2048	
6 (End Point)	25	818.999999	-1	2048	
Freq. ERROR vs. Temp.					
7.66	-30	819.000005	5	2048	
7.66	-20	819.000001	1	2048	
7.66	-10	819.000006	6	2048	
7.66	0	819.000003	3	2048	
7.66	10	819.000009	9	2048	
7.66	20	819.000004	4	2048	
7.66	30	819.000000	0	2048	
7.66	40	818.999998	-2	2048	
7.66	50	818.999995	-5	2048	

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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					
8.7	25	2310.000010	10	6488	
7.66	25	2310.000006	6	6488	
6	25	2310.000001	1	6488	
6 (End Point)	25	2310.000001	1	6488	
Freq. ERROR vs. Temp.					
7.66	-30	2310.000007	7	6488	
7.66	-20	2310.000004	4	6488	
7.66	-10	2309.999998	-2	6488	
7.66	0	2310.000003	3	6488	
7.66	10	2309.999999	-1	6488	
7.66	20	2309.999995	-5	6488	
7.66	30	2310.000000	0	6488	
7.66	40	2310.000002	2	6488	
7.66	50	2309.999997	-3	6488	

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					
8.7	25	2595.000008	8	6488	
7.66	25	2595.000004	4	6488	
6	25	2595.000000	0	6488	
6 (End Point)	25	2595.000000	0	6488	
Freq. ERROR vs. Temp.					
7.66	-30	2595.000007	7	6488	
7.66	-20	2595.000003	3	6488	
7.66	-10	2595.000005	5	6488	
7.66	0	2594.999999	-1	6488	
7.66	10	2594.999997	-3	6488	
7.66	20	2595.000001	1	6488	
7.66	30	2594.999996	-4	6488	
7.66	40	2594.999994	-6	6488	
7.66	50	2594.999998	-2	6488	

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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					
8.7	25	2593.000009	9	6488	
7.66	25	2593.000005	5	6488	
6	25	2593.000002	2	6488	
6 (End Point)	25	2593.000002	2	6488	
Freq. ERROR vs. Temp.					
7.66	-30	2593.000007	7	6488	
7.66	-20	2593.000004	4	6488	
7.66	-10	2593.000001	1	6488	
7.66	0	2592.999997	-3	6488	
7.66	10	2592.999999	-1	6488	
7.66	20	2593.000002	2	6488	
7.66	30	2593.000005	5	6488	
7.66	40	2593.000000	0	6488	
7.66	50	2592.999997	-3	6488	

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					
8.7	25	1745.000011	11	6488	
7.66	25	1745.000007	7	6488	
6	25	1745.000003	3	6488	
6 (End Point)	25	1745.000003	3	6488	
Freq. ERROR vs. Temp.					
7.66	-30	1745.000005	5	6488	
7.66	-20	1745.000001	1	6488	
7.66	-10	1744.999998	-2	6488	
7.66	0	1745.000003	3	6488	
7.66	10	1745.000000	0	6488	
7.66	20	1744.999996	-4	6488	
7.66	30	1744.999999	-1	6488	
7.66	40	1744.999994	-6	6488	
7.66	50	1744.999997	-3	6488	

**Note: The battery is rated 7.66Vdc.**

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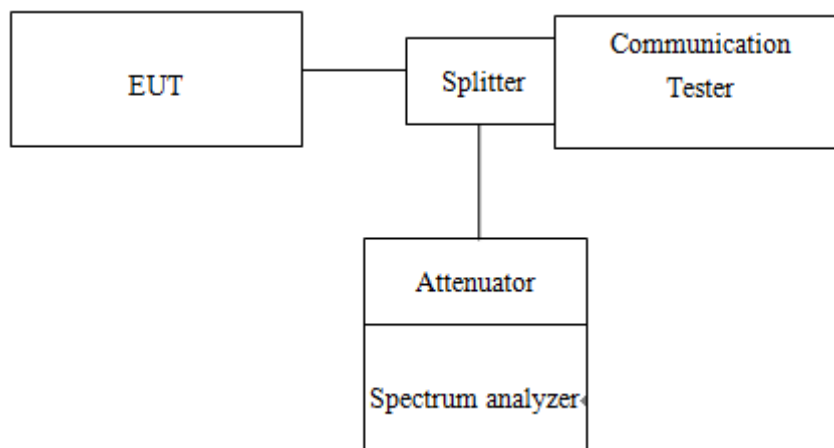
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## 11. PEAK TO AVERAGE RATIO

### 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	KEYSIGHT	N9010A	MY57120200	03/06/2019	03/05/2020
DC Power Supply	Agilent	E3640A	MY53140006	05/31/2019	05/30/2020
Radio Communication Analyzer	Anritsu	MT8820C	6201107337	07/17/2019	07/16/2020
Attenuator	Marvelous	MVE2213-10	RF31	12/25/2018	12/24/2019
Splitter	Marvelous	MVE8576	RF38	12/25/2018	12/24/2019
DC Block	PASTERNAK	PE8210	RF81	12/25/2018	12/24/2019
Coaxial Cables	Woken	00100A1F1A185C	RF220	12/25/2018	12/24/2019

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## 11.5. Measurement Result

### Tabular Results:

Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA II	HSDPA II	HSUPA II
1852.4	9262	3.49	3.54	3.83
1880	9400	3.40	3.85	3.81
1907.6	9538	3.48	4.00	3.76

Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA V	HSDPA V	HSUPA V
826.4	4132	3.08	3.93	3.74
836.6	4183	3.16	3.85	3.90
846.6	4233	3.07	3.84	3.98

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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	6.62	13	1851.5	18615	5.70	13
1880.0	18900	6.57	13	1880.0	18900	6.03	13
1909.3	19193	6.68	13	1908.5	19185	5.81	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	5.65	13	1855.0	18650	6.11	13
1880.0	18900	6.06	13	1880.0	18900	5.81	13
1907.5	19175	5.67	13	1905.0	19150	5.79	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	6.23	13	1860.0	18700	5.92	13
1880.0	18900	6.21	13	1880.0	18900	5.75	13
1902.5	19125	6.14	13	1900.0	19100	5.73	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	6.58	13	1711.5	19965	6.68	13
1732.5	20175	6.50	13	1732.5	20175	6.66	13
1754.3	20393	6.63	13	1753.5	20385	6.53	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	6.47	13	1715.0	20000	6.52	13
1732.5	20175	6.42	13	1732.5	20175	6.45	13
1752.5	20375	6.48	13	1750.0	20350	6.55	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	6.51	13	1720.0	20050	7.06	13
1732.5	20175	6.46	13	1732.5	20175	6.97	13
1747.5	20325	6.54	13	1745.0	20300	6.74	13

LTE BAND 5							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
824.7	20407	6.98	13	825.5	20415	6.43	13
836.5	20525	6.69	13	836.5	20525	6.44	13
848.3	20643	6.87	13	847.5	20635	8.41	13

LTE BAND 5							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
826.5	20425	6.48	13	829.0	20450	6.47	13
836.5	20525	6.30	13	836.5	20525	6.53	13
846.5	20625	6.52	13	844.0	20600	6.40	13

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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	6.47	13	2505.0	20800	6.43	13
2535.0	21100	6.50	13	2535.0	21100	6.41	13
2567.5	21375	6.51	13	2565.0	21350	6.63	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	6.49	13	2510	20850	6.53	13
2535.0	21100	6.44	13	2535	21100	6.32	13
2562.5	21375	6.51	13	2560	21350	6.52	13

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	6.59	13	700.5	23025	5.66	13
707.5	23095	6.41	13	707.5	23095	5.95	13
715.3	23173	6.56	13	714.5	23165	5.99	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	6.01	13	704.0	23060	6.40	13
707.5	23095	5.63	13	707.5	23095	6.39	13
713.5	23155	5.64	13	711.0	23130	6.54	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	6.33	13	782.0	23230	6.34	13
782.0	23230	6.41	13				
784.5	23255	6.42	13				

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LTE BAND 14							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
790.5	23305	6.44	13	793.0	23330	6.33	13
793	23330	6.38	13				
795.5	23355	6.52	13				

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	6.58	13	1851.5	26055	6.49	13
1882.5	26365	6.72	13	1882.5	26365	6.52	13
1914.3	26683	6.79	13	1913.5	26675	6.54	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	6.35	13	1855.0	26090	6.45	13
1882.5	26365	6.55	13	1882.5	26365	6.57	13
1912.5	26665	6.51	13	1910.0	26640	6.48	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	6.55	13	1860.0	26140	6.47	13
1882.5	26365	6.48	13	1882.5	26365	6.47	13
1907.5	26615	6.54	13	1905.0	26590	6.44	13

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LTE BAND 26							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
814.7	26697	6.65	13	815.5	26705	6.41	13
831.5	26865	6.76	13	831.5	26865	6.56	13
848.3	27033	6.99	13	847.5	27025	6.45	13

LTE BAND 26							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
816.5	26715	6.51	13	820.0	26750	6.43	13
831.5	26865	6.43	13	831.5	26865	6.50	13
846.5	27015	6.42	13	844.0	26990	6.41	13

LTE BAND 26							
Channel bandwidth: 15MHz							
Freq. (MHz)	CH	PAPR (dB)					
		64QAM	Limit				
822.5	26775	6.57	13				
831.5	26865	6.40	13				
841.5	26965	6.48	13				

LTE BAND 26 for part 90S							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
814.7	26697	5.45	13	815.5	26705	6.50	13
819.0	26740	6.10	13	819	26740	6.52	13
823.3	26783	6.19	13	822.5	26775	6.47	13

LTE BAND 26 for part 90S							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
816.5	26715	6.48	13	819.0	26740	6.34	13
819.0	26740	6.45	13				
821.5	26765	6.43	13				

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LTE BAND 30							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	Peak-to-		Freq. (MHz)	CH	Peak-to-	
		6.69	Limit			6.69	Limit
2307.5	27685	6.02	13	2310.0	27710	6.11	13
2310.0	27710	6.05	13				
2312.5	27735	6.10	13				
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	8.02	13	2575	37800	7.10	13
2595.0	38000	7.27	13	2595	38000	8.46	13
2617.5	38225	7.36	13	2615	38200	6.59	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	8.20	13	2580.0	37850	6.67	13
2595.0	38000	6.60	13	2595.0	38000	7.99	13
2612.5	38175	7.19	13	2610.0	38150	6.97	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	7.12	13	2501.0	39700	6.69	13
2593.0	40620	6.81	13	2593.0	40620	7.69	13
2687.5	41565	6.72	13	2685.0	41540	7.61	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	6.99	13	2506.0	39750	7.01	13
2593.0	40620	7.69	13	2593.0	40620	7.25	13
2682.5	41515	6.99	13	2680.0	41490	6.73	13

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LTE BAND 66							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	Peak-to-		Freq. (MHz)	CH	Peak-to-	
		16QAM	Limit			16QAM	Limit
1710.7	131979	6.88	13	1711.5	131987	6.56	13
1745.0	132322	6.50	13	1745.0	132322	6.48	13
1779.3	132665	8.39	13	1778.5	132657	6.56	13

LTE BAND 66							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	Peak-to-		Freq. (MHz)	CH	Peak-to-	
		16QAM	Limit			16QAM	Limit
1712.5	131997	6.44	13	1715.0	132022	6.44	13
1745.0	132322	6.49	13	1745.0	132322	6.47	13
1777.5	132647	6.46	13	1775.0	132622	6.49	13

LTE BAND 66							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	Peak-to-		Freq. (MHz)	CH	Peak-to-	
		16QAM	Limit			16QAM	Limit
1717.5	132047	6.55	13	1720.0	132072	6.29	13
1745.0	132322	6.38	13	1745.0	132322	6.45	13
1772.5	132597	6.32	13	1770.0	132572	6.45	13

**Please refer to next page for test plots.**

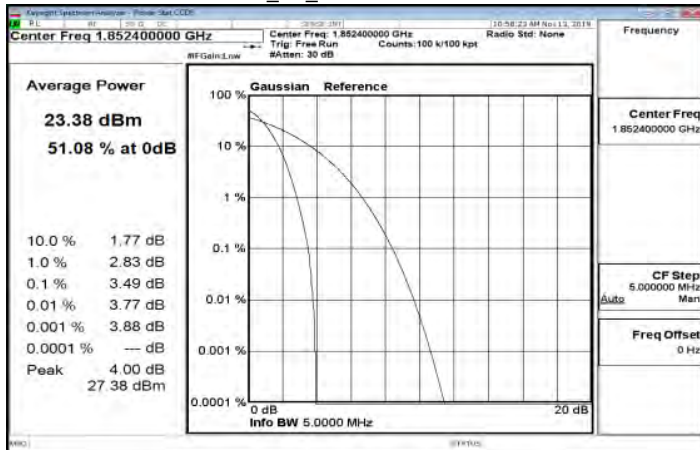
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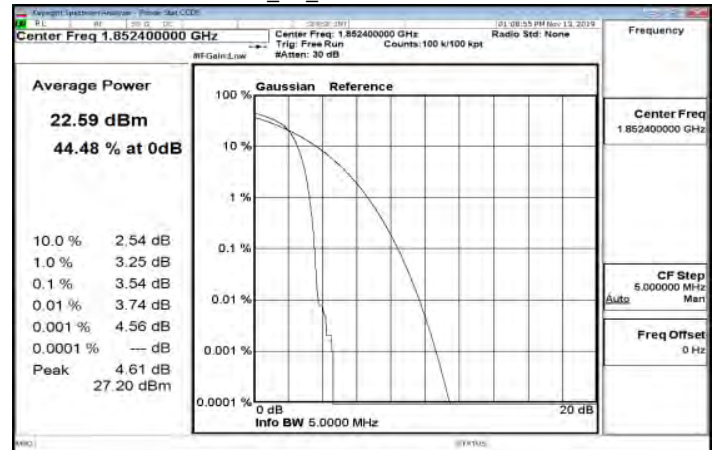
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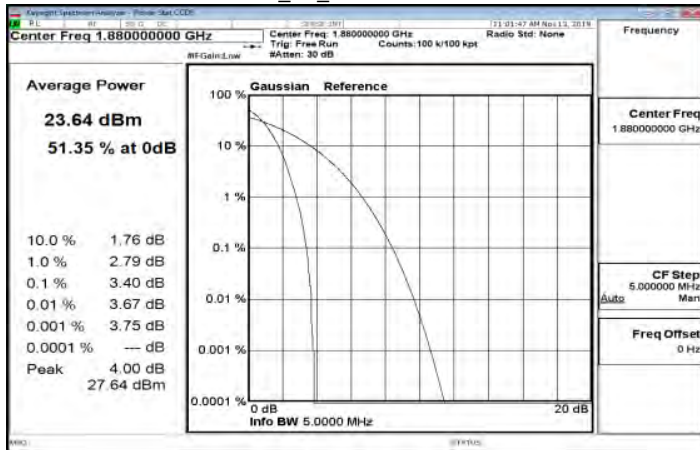
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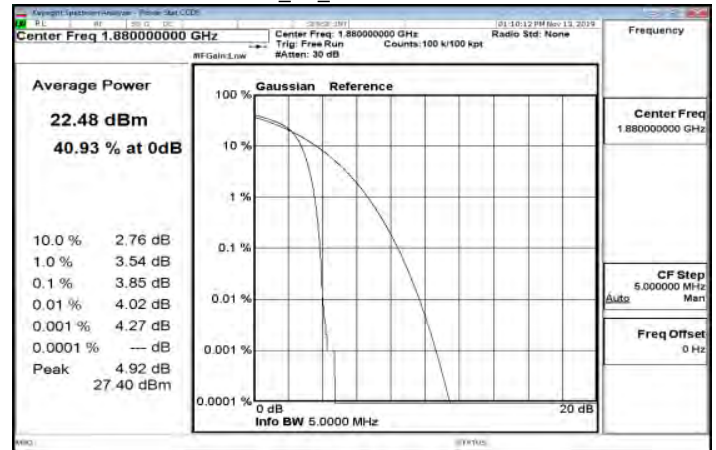
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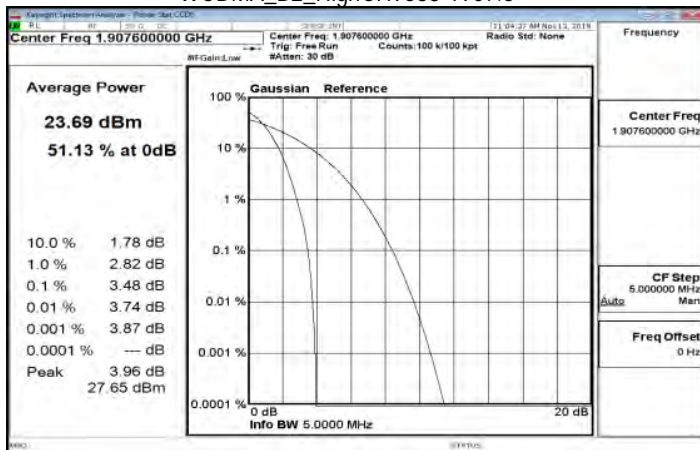
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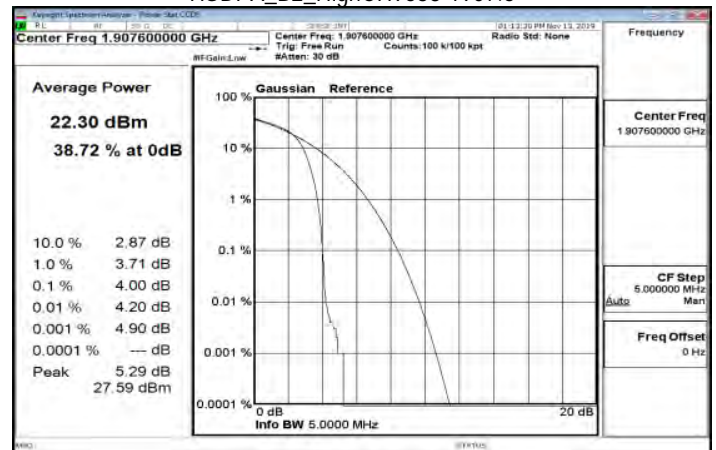
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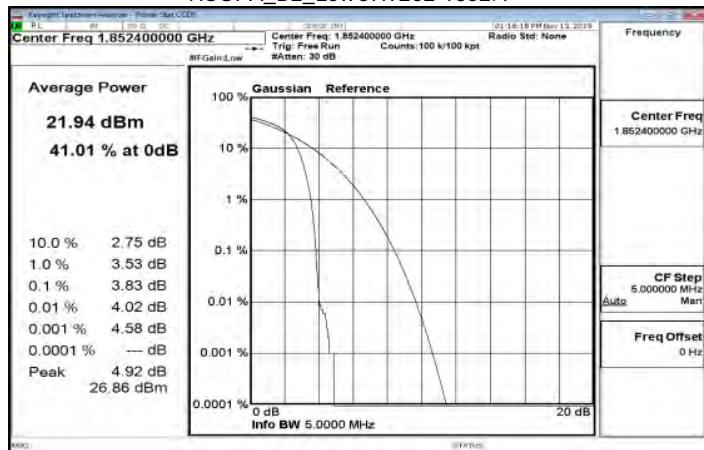
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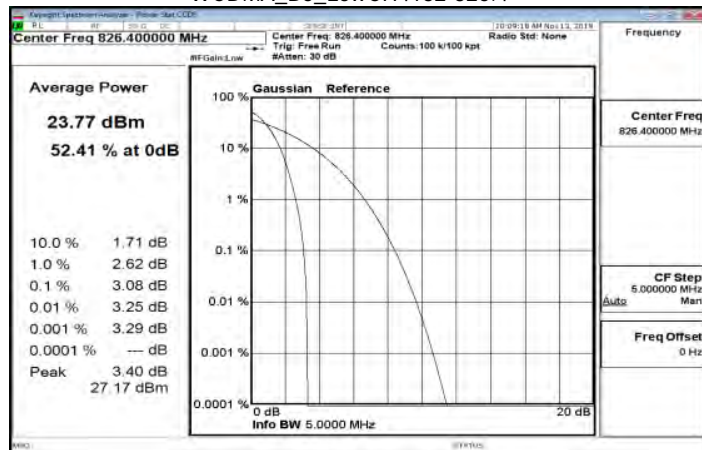
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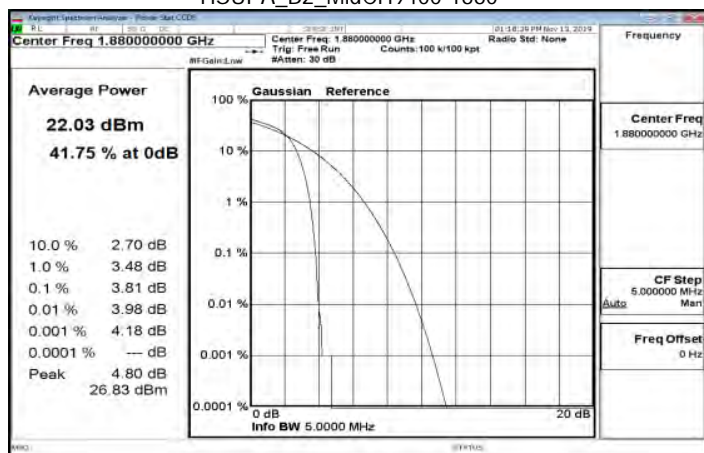
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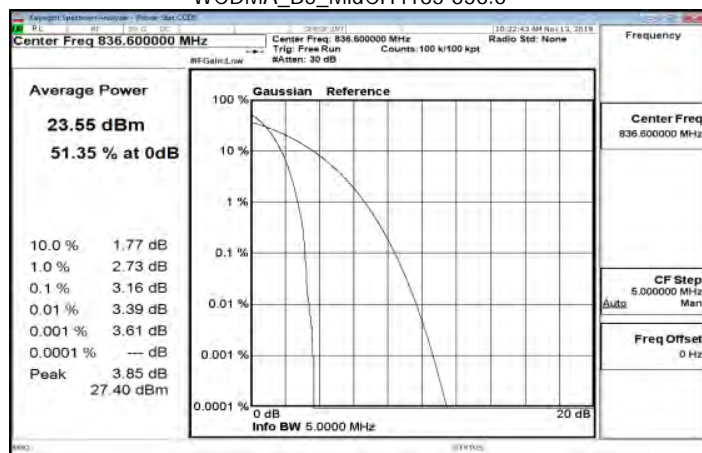
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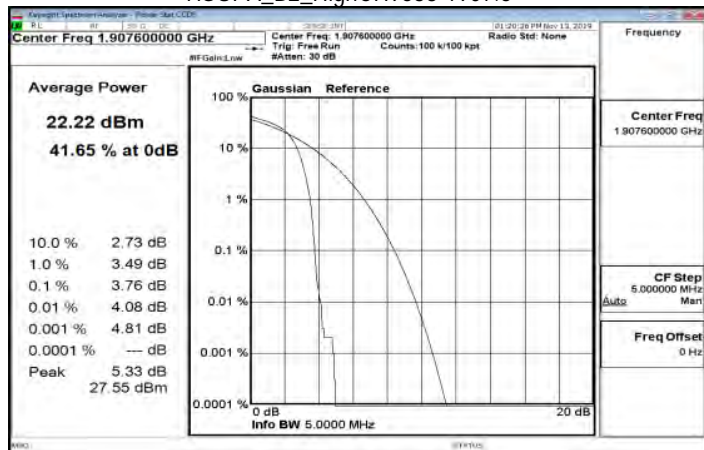
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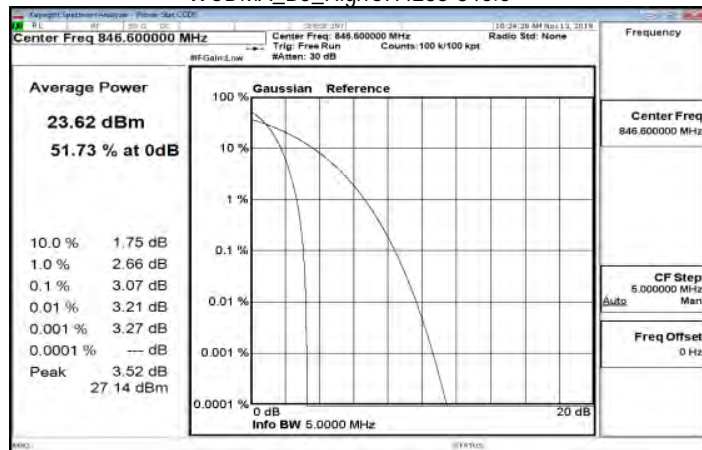
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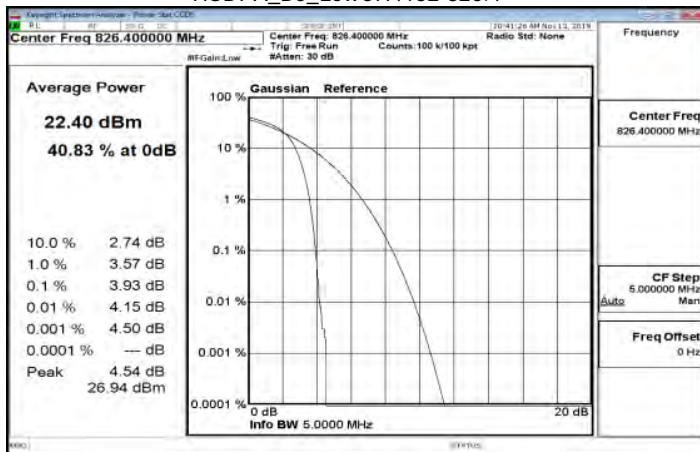
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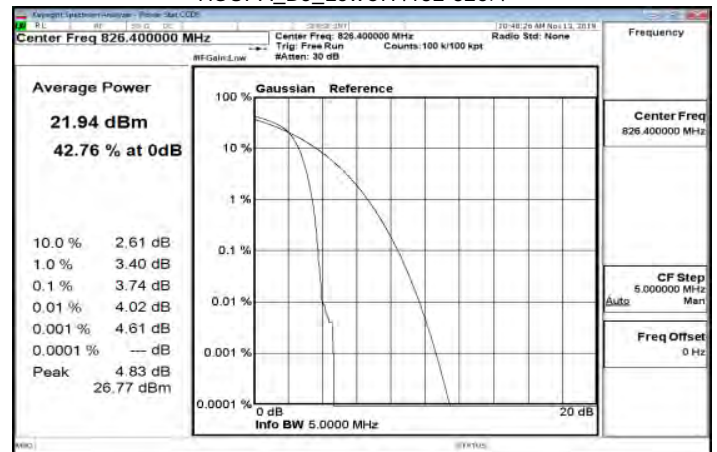
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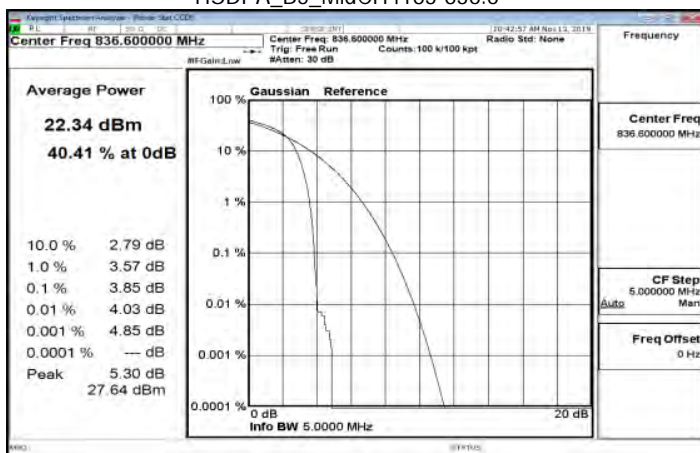
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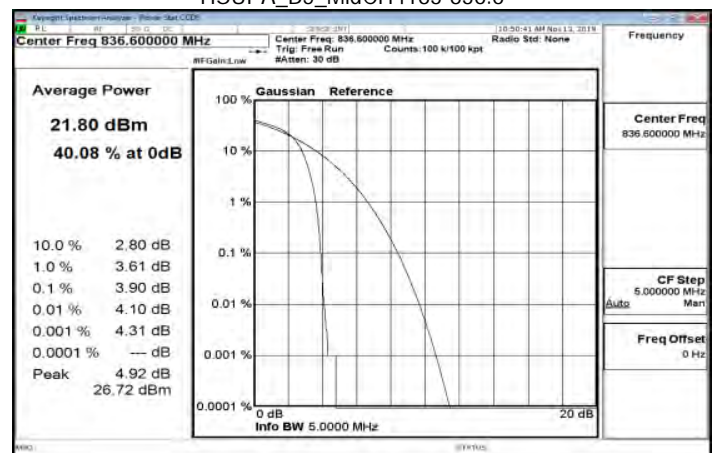
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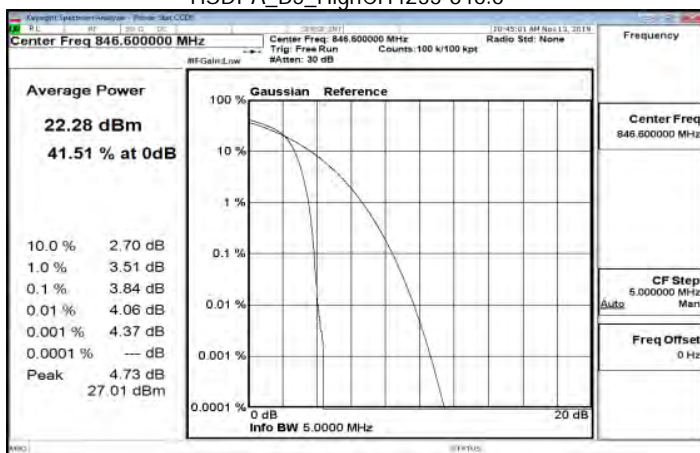
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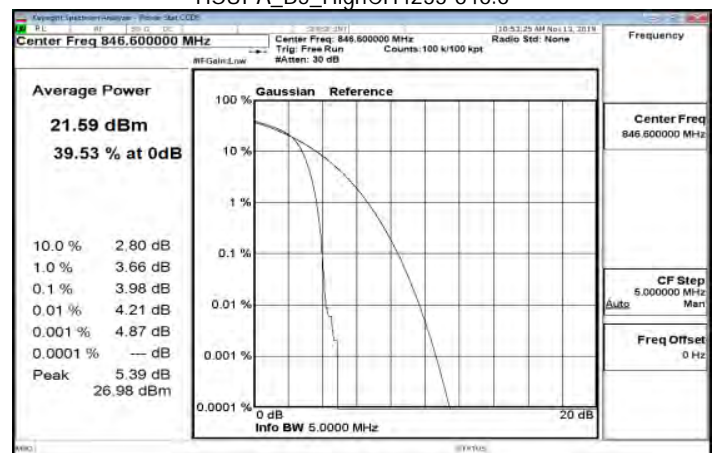
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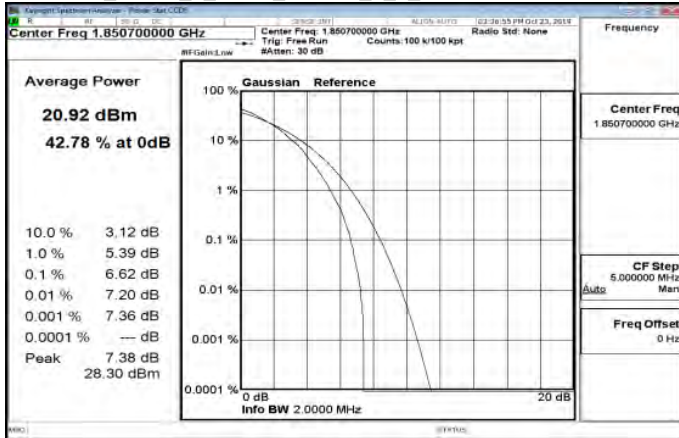
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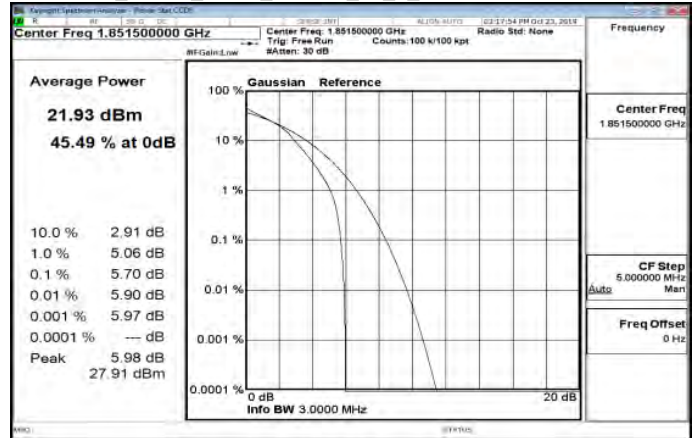
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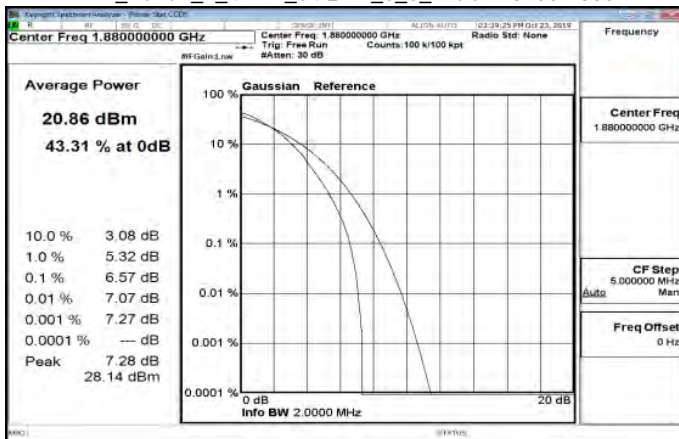
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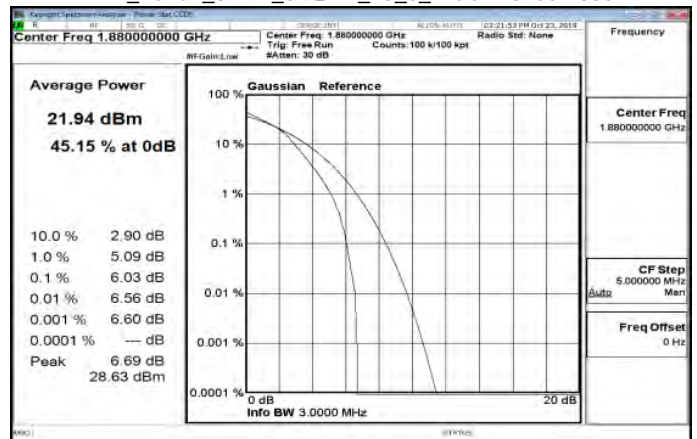
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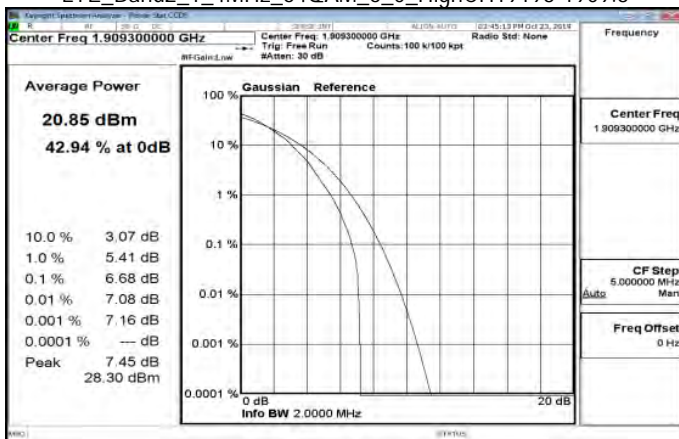
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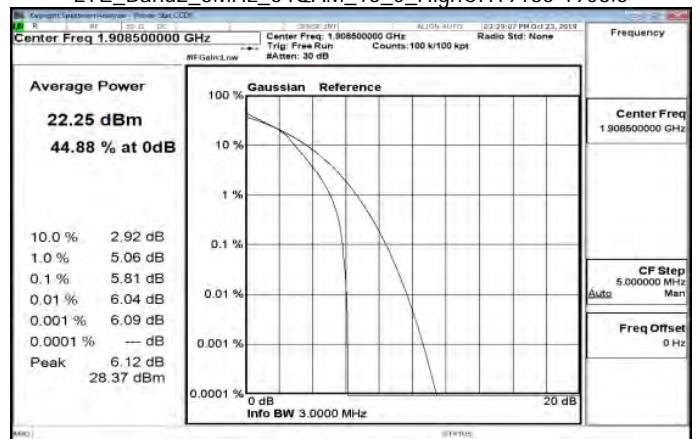
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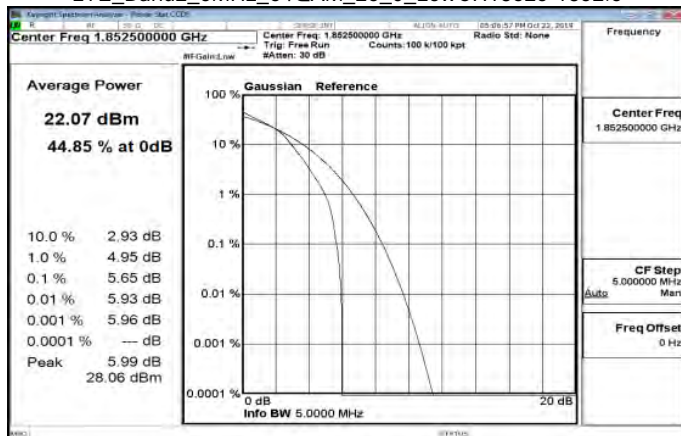
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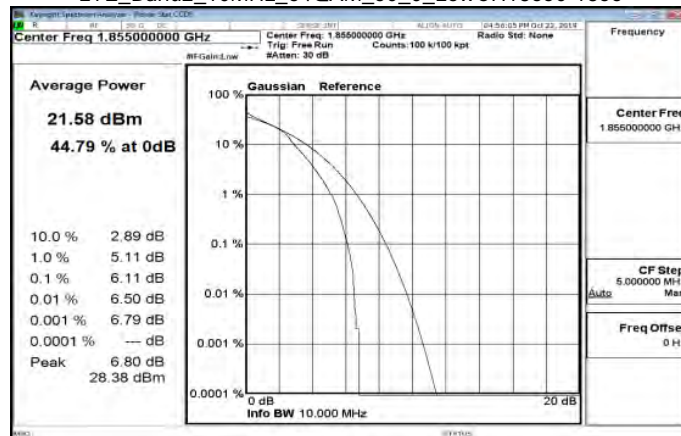
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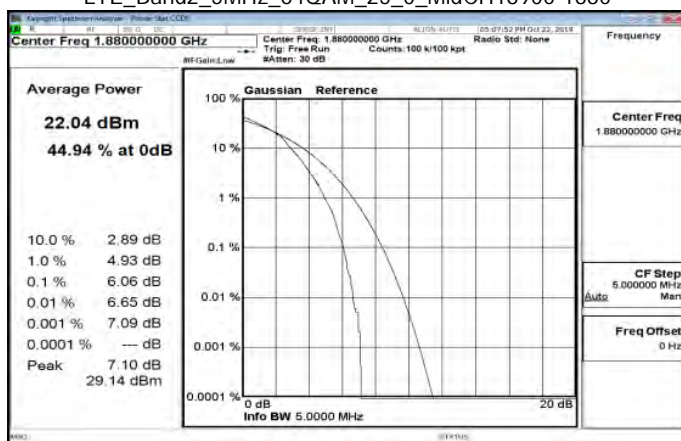
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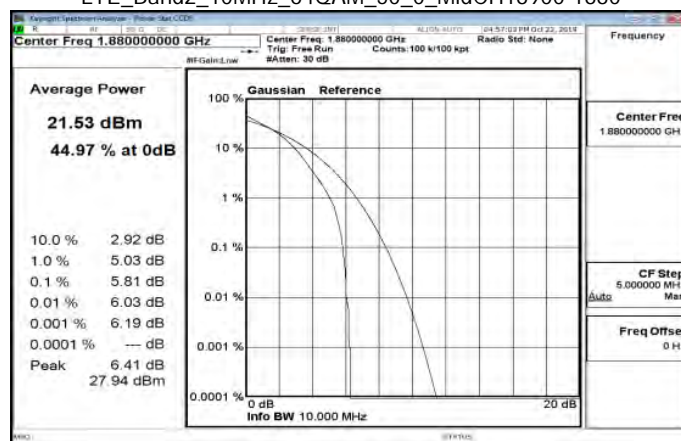
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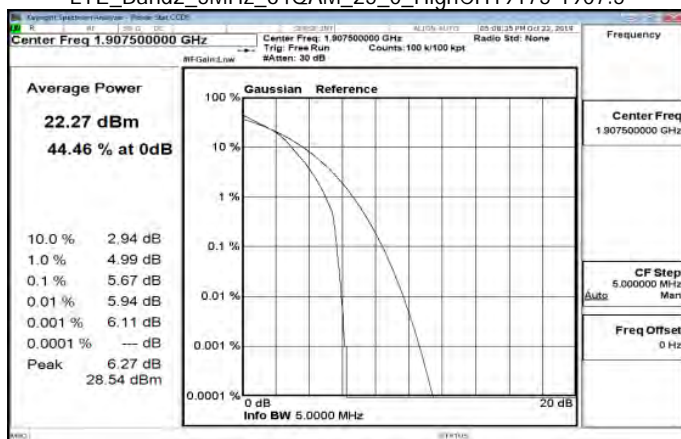
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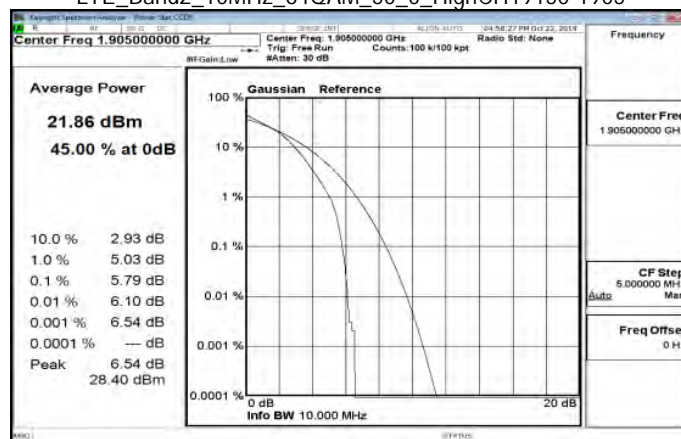
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LTE\_Band2\_5MHz\_64QAM\_25\_0\_HighCH19175-1907.5



LTE\_Band2\_10MHz\_64QAM\_50\_0\_HighCH19150-1905



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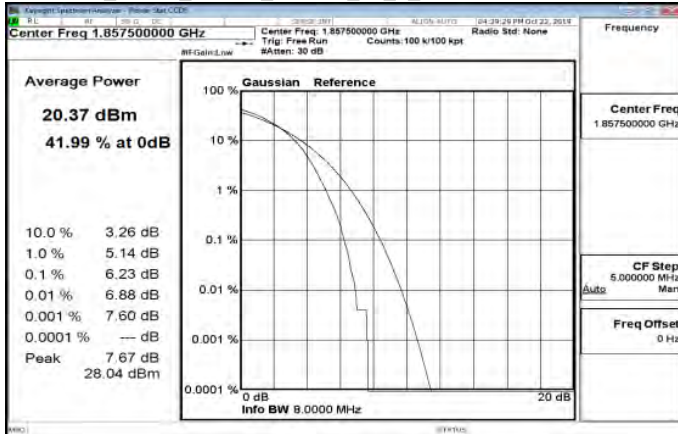
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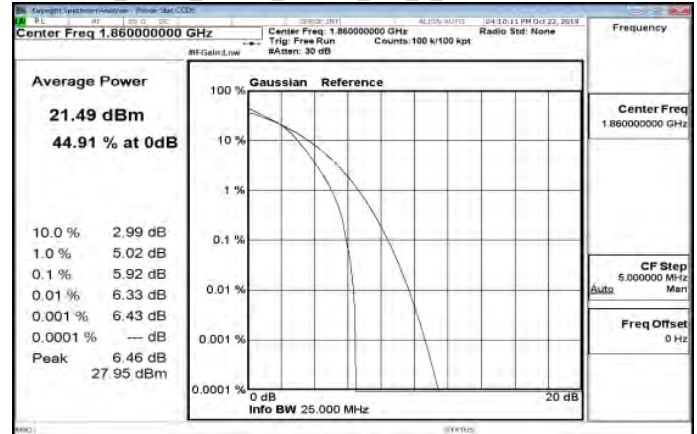
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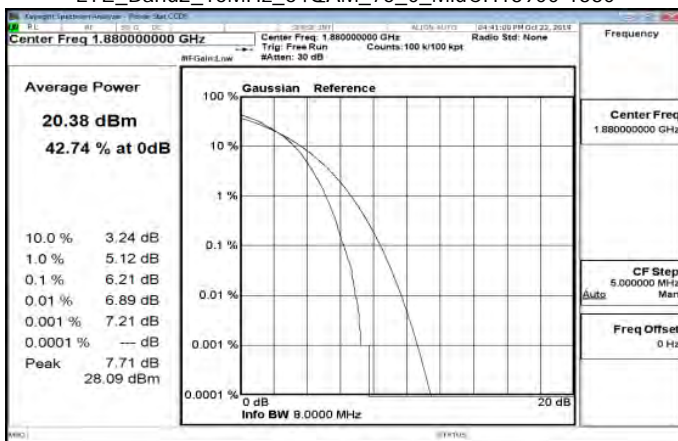
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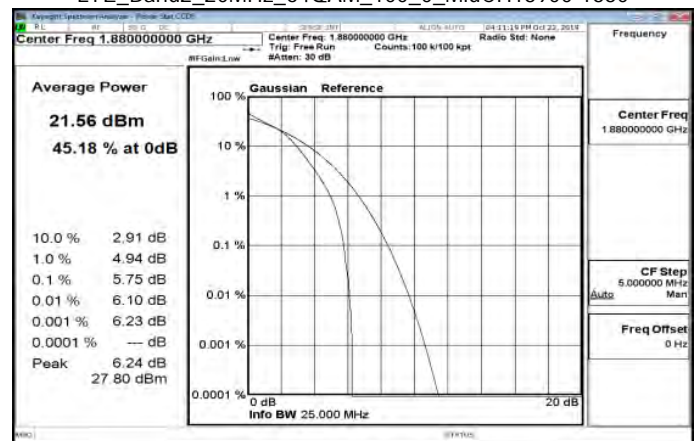
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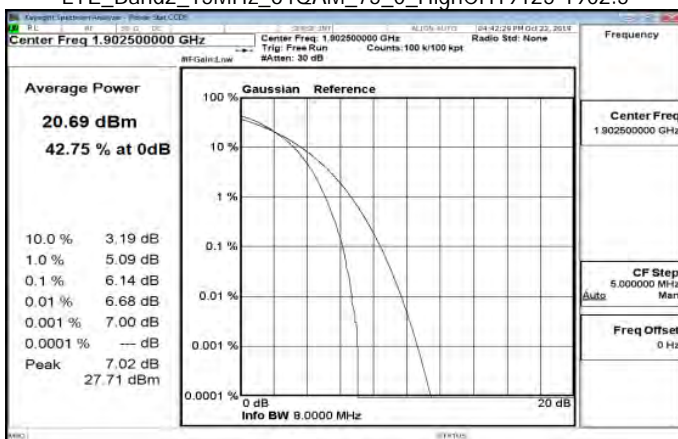
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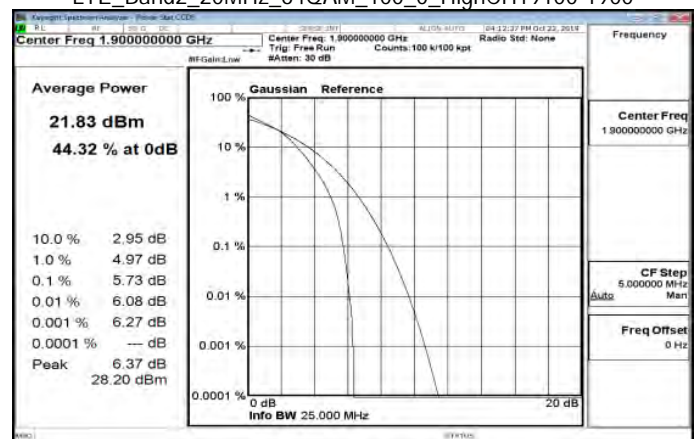
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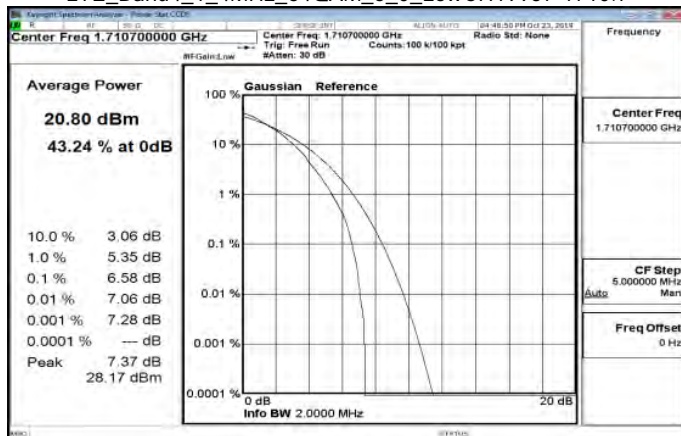
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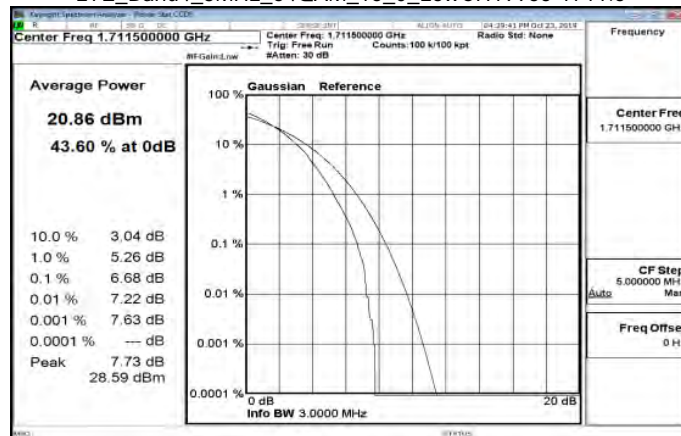
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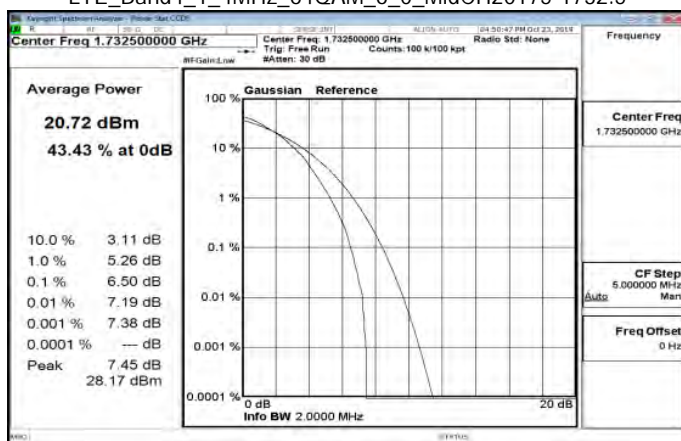
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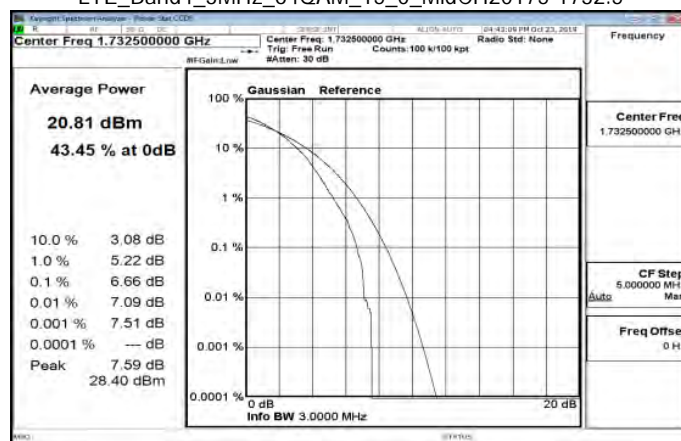
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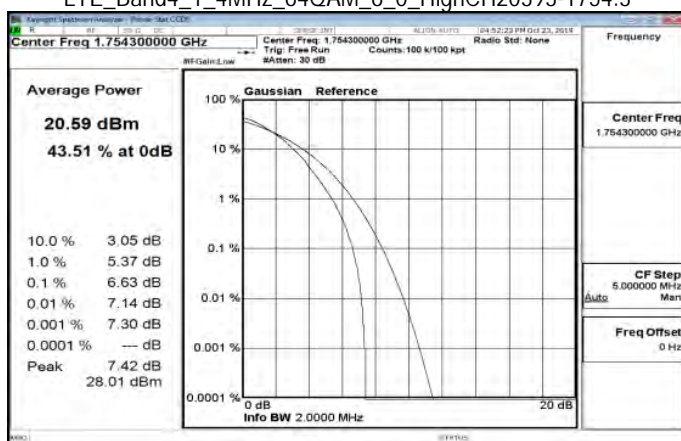
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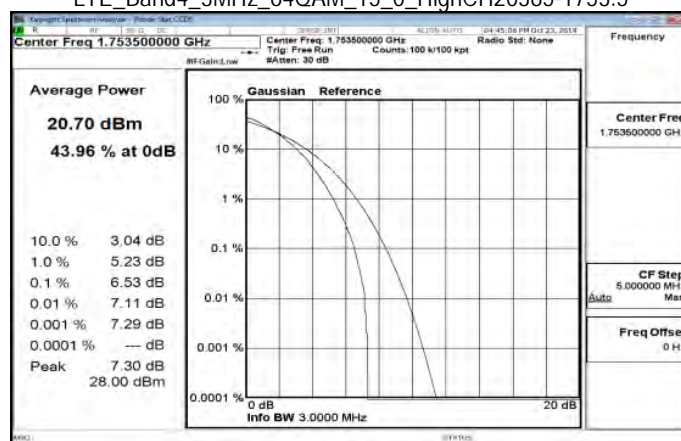
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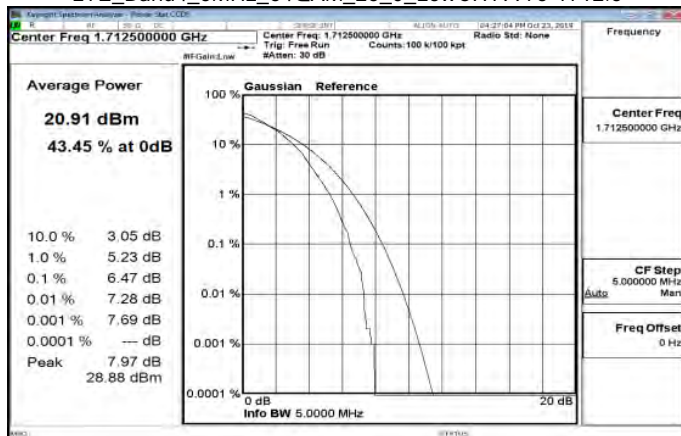


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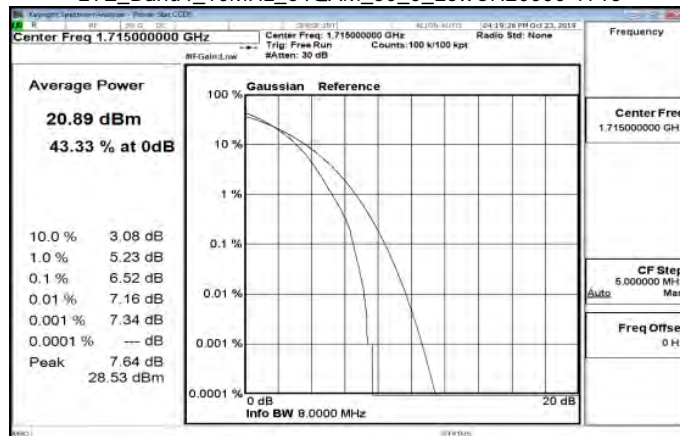
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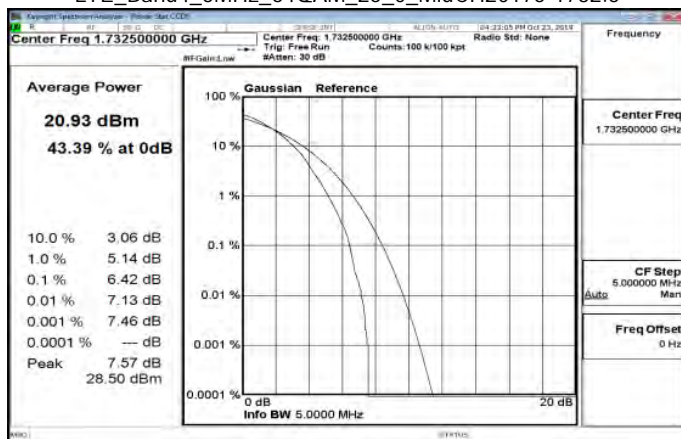
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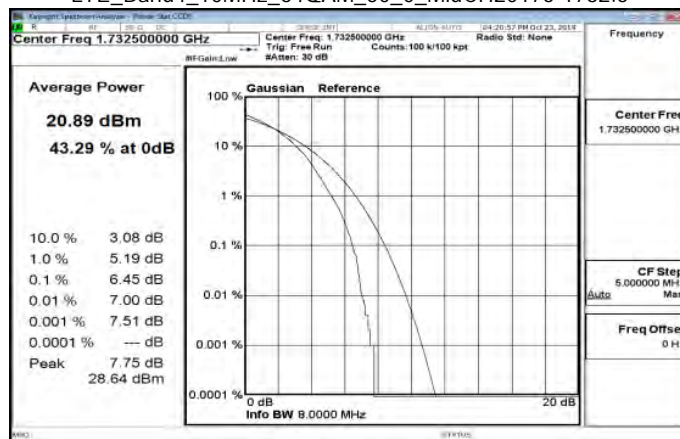
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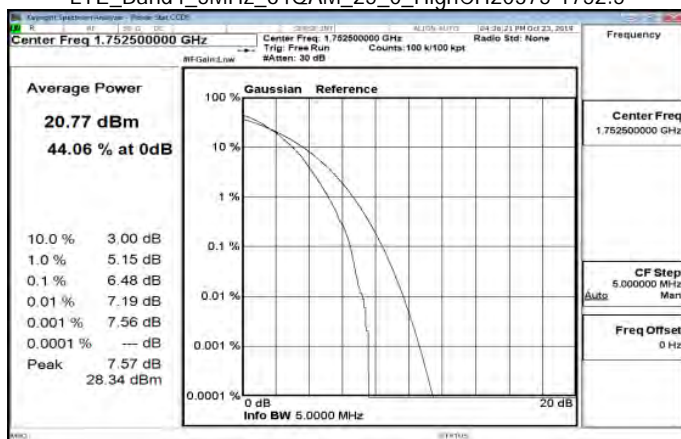
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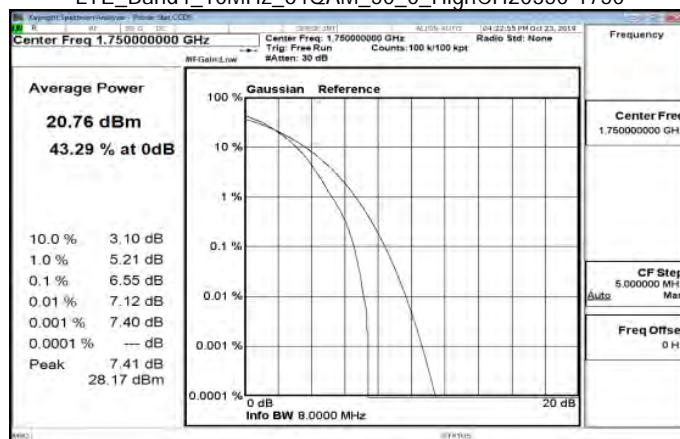
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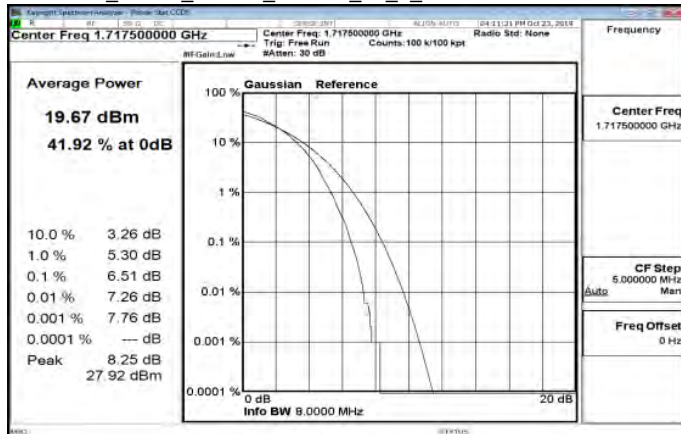
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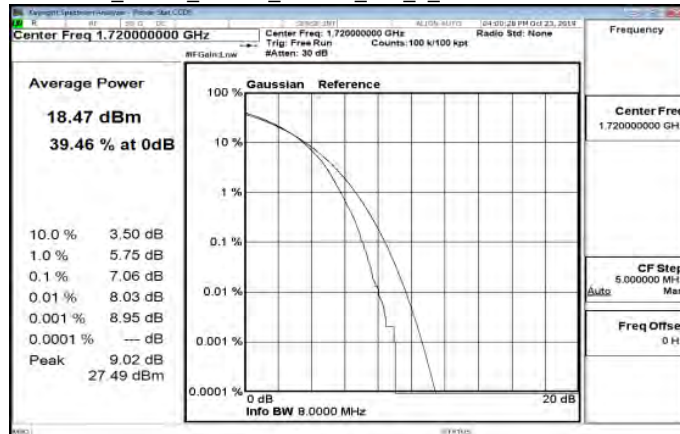
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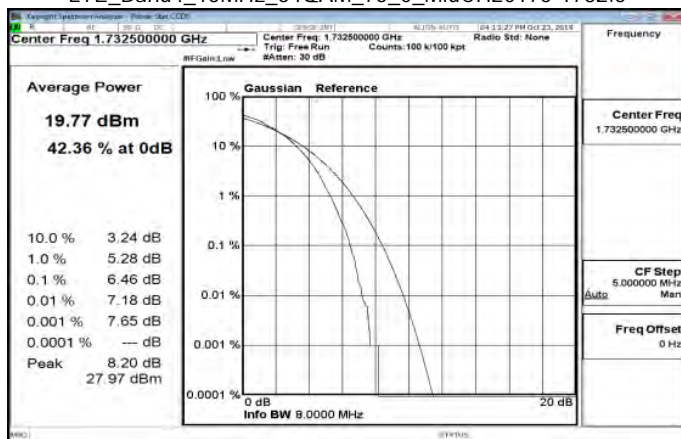
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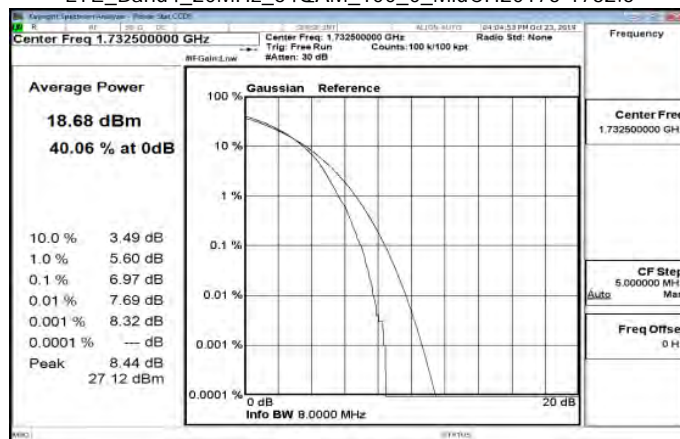
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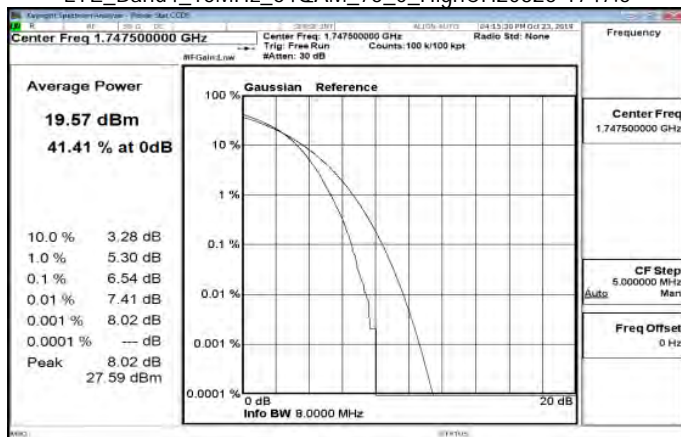
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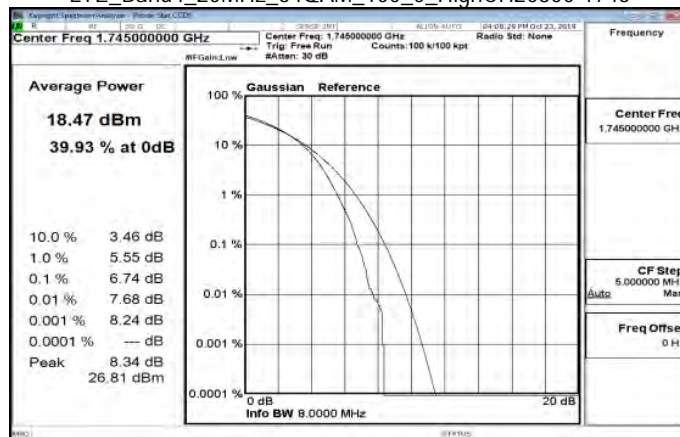
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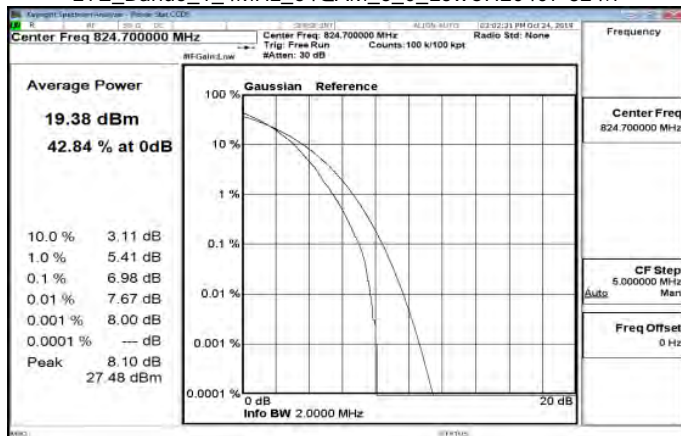


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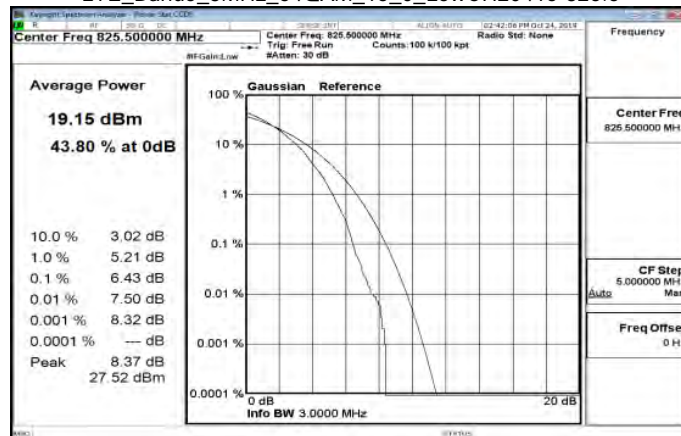
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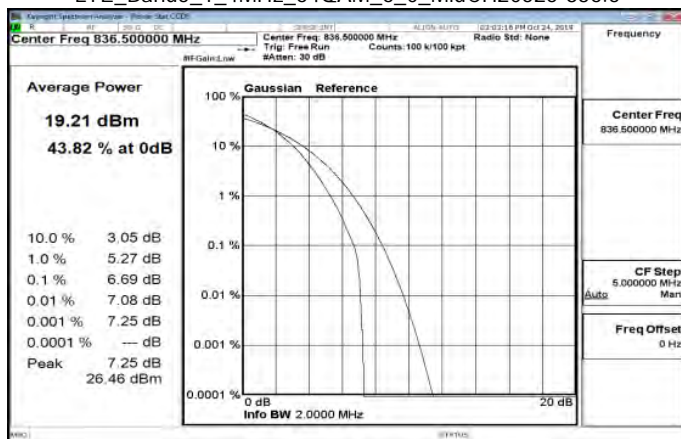
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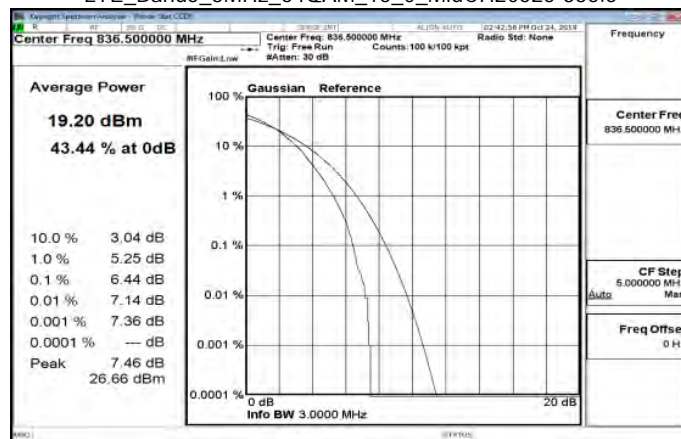
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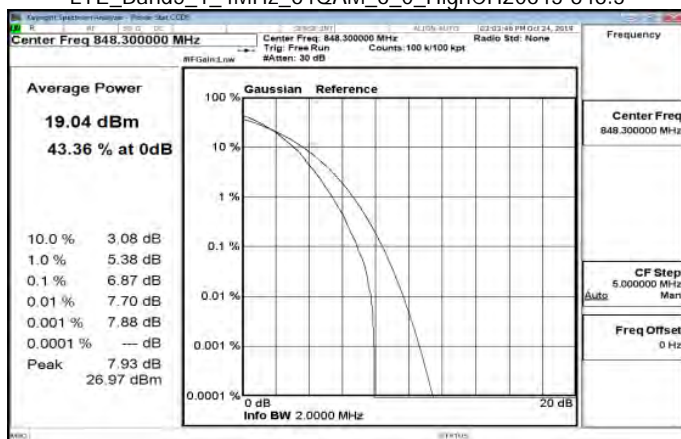
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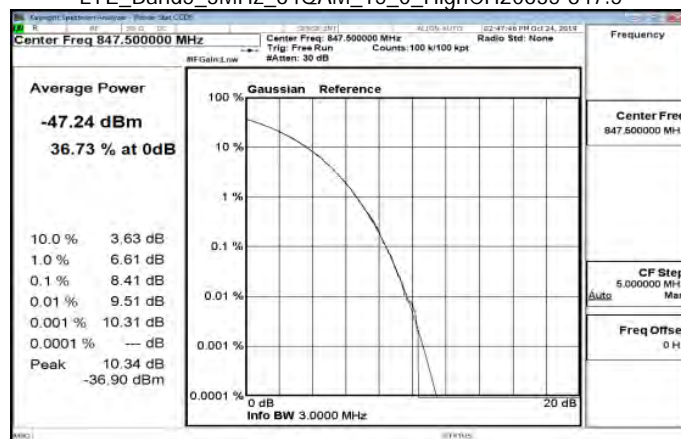
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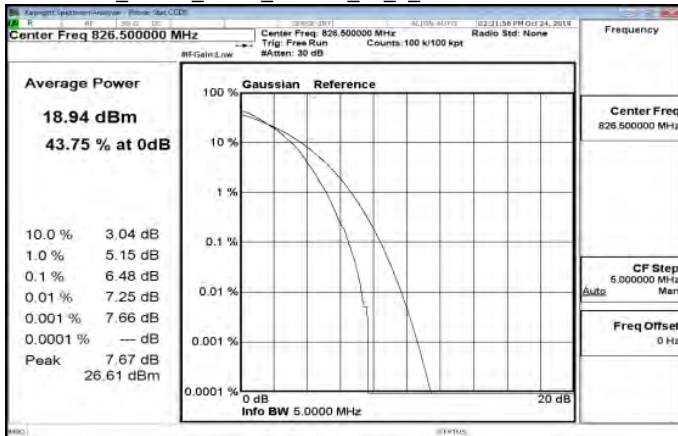
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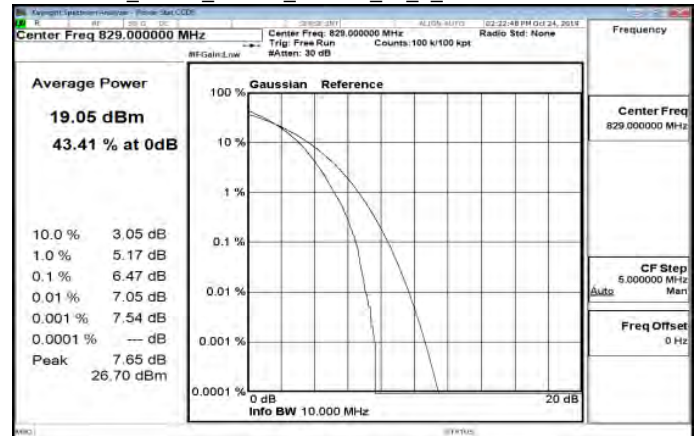
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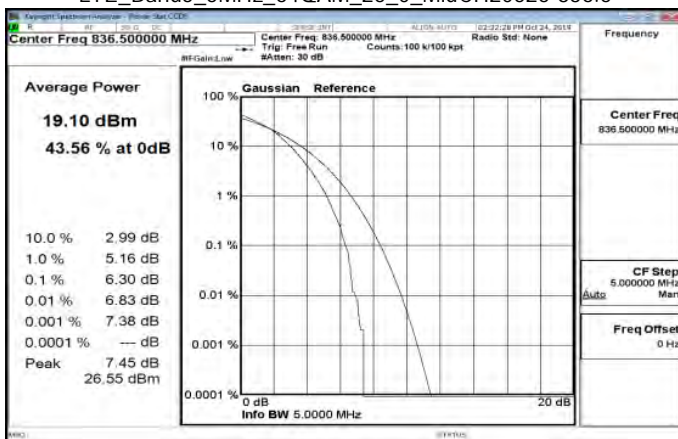
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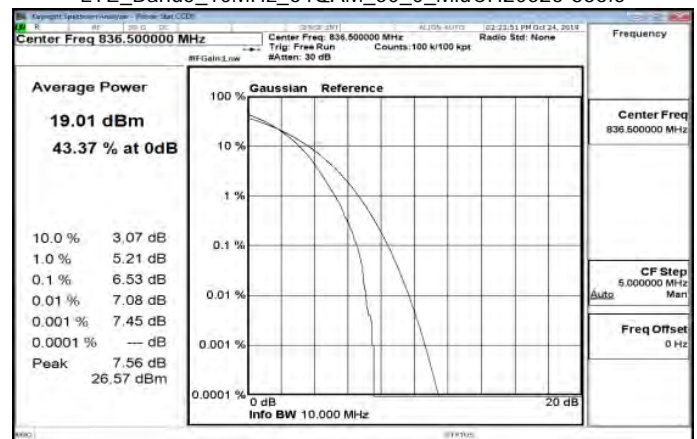
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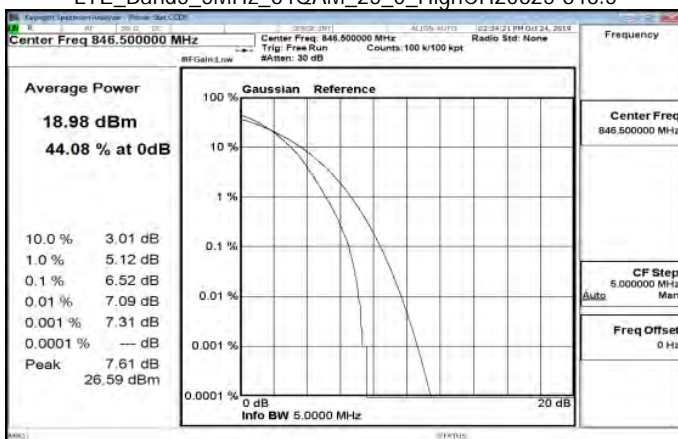
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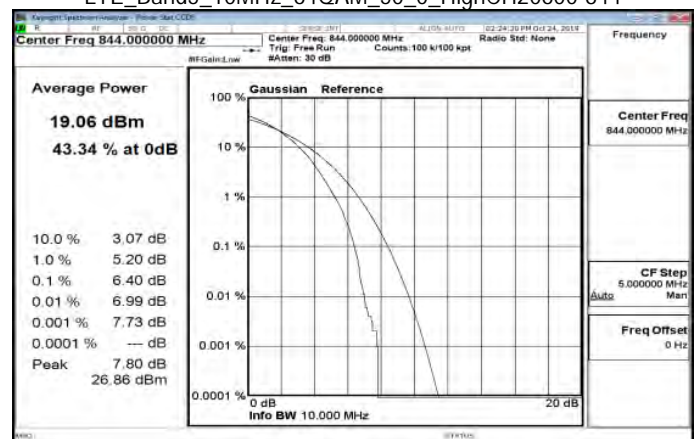
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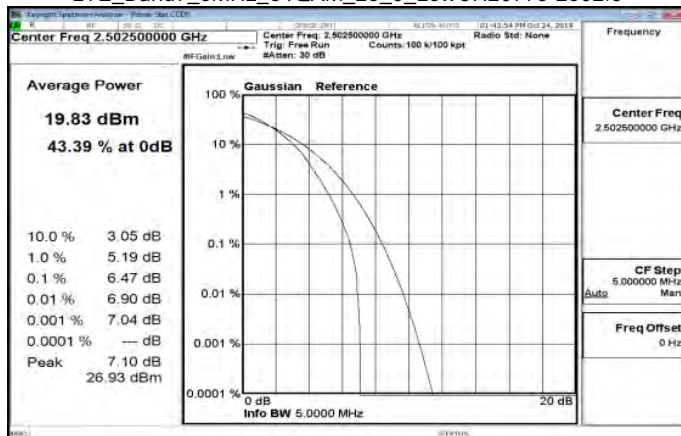


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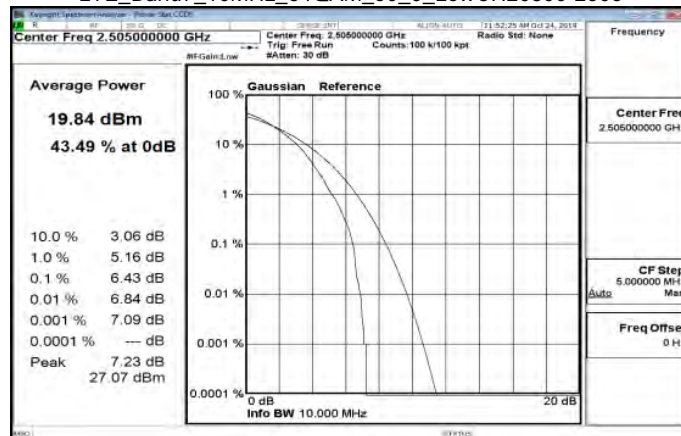
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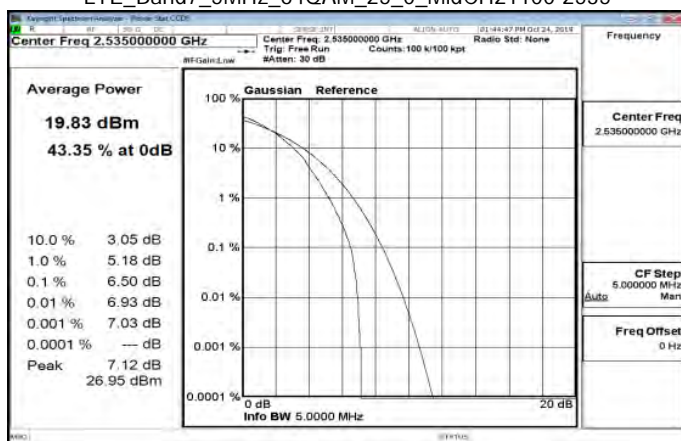
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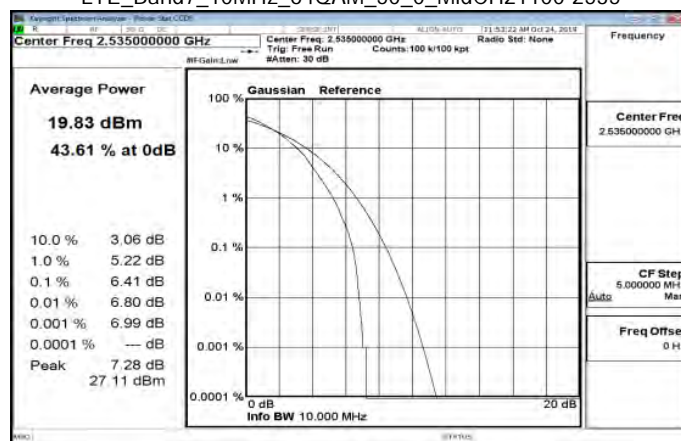
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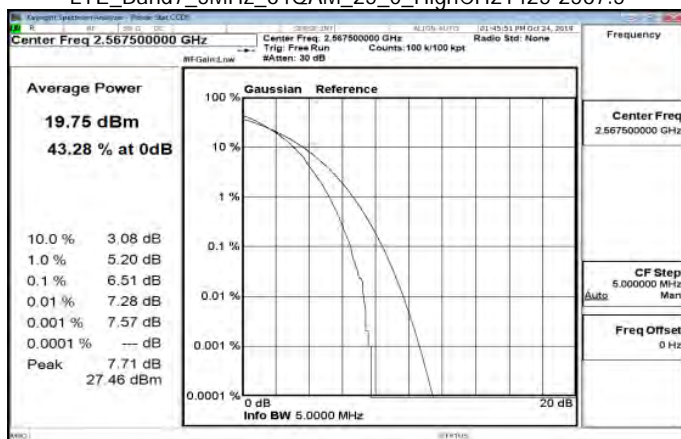
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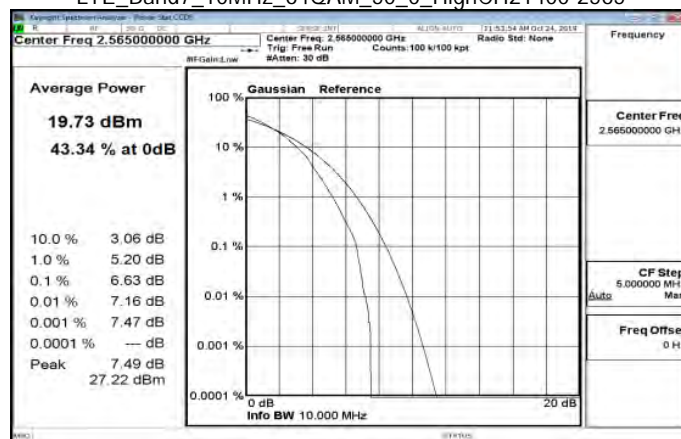
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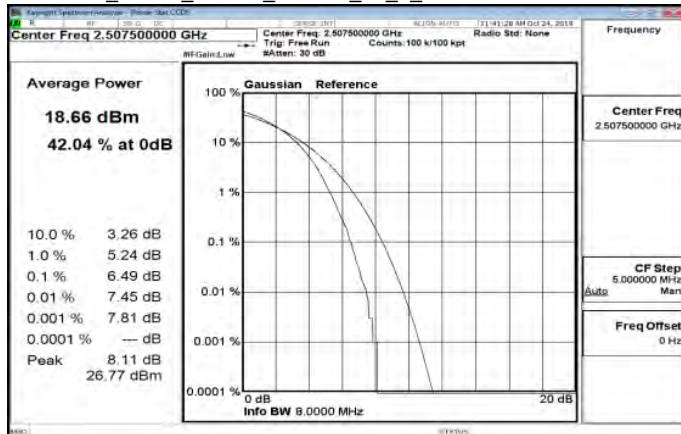
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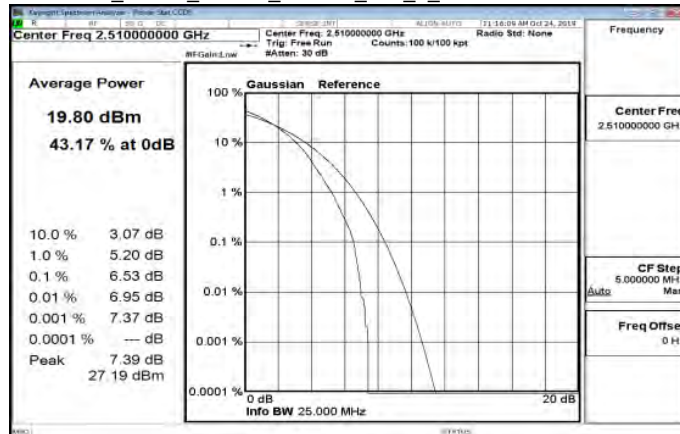
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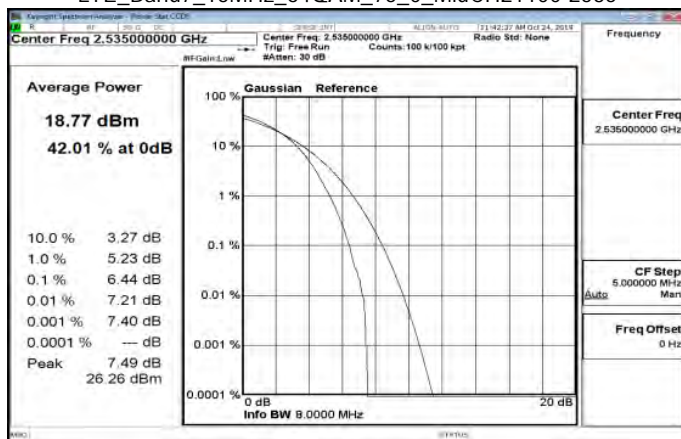
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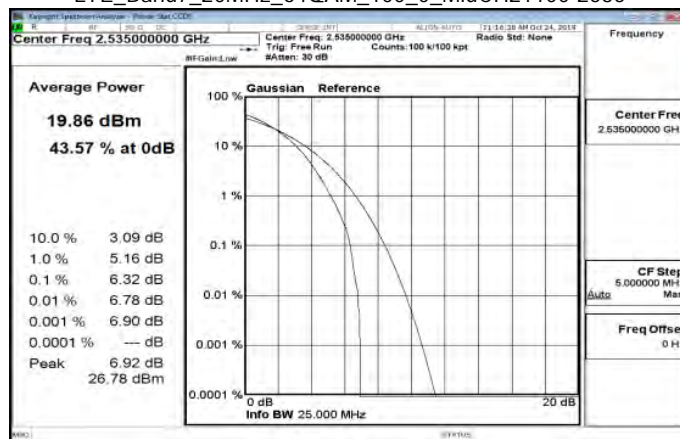
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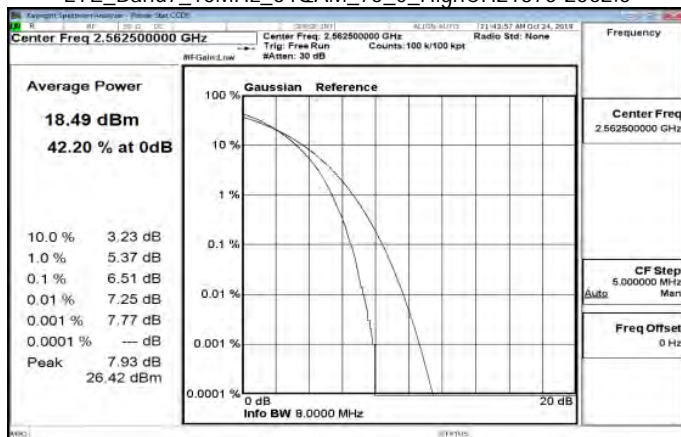
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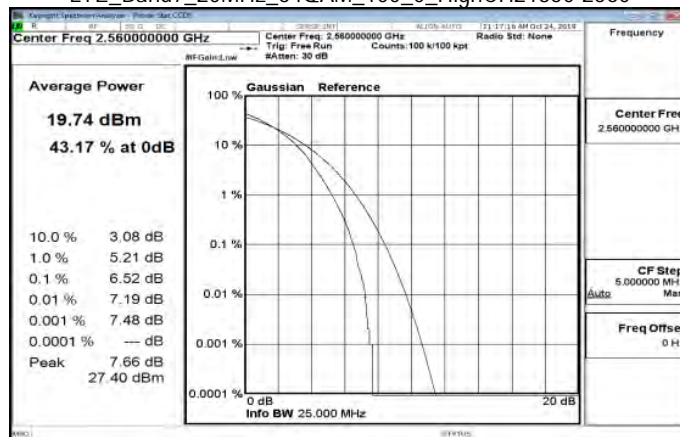
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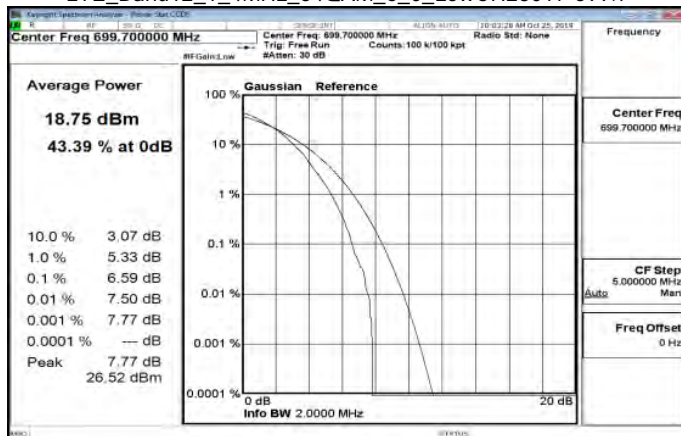


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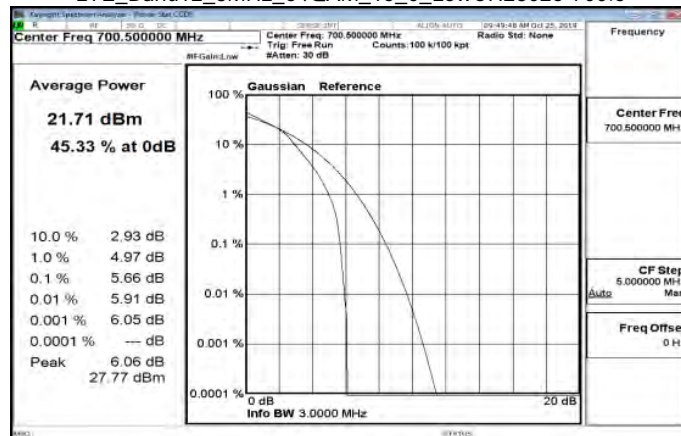
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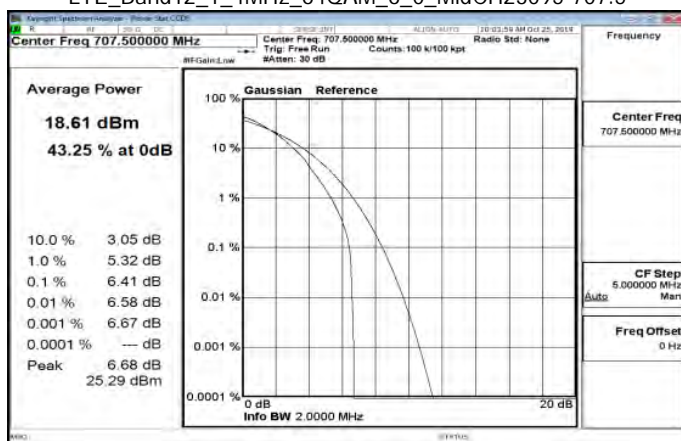
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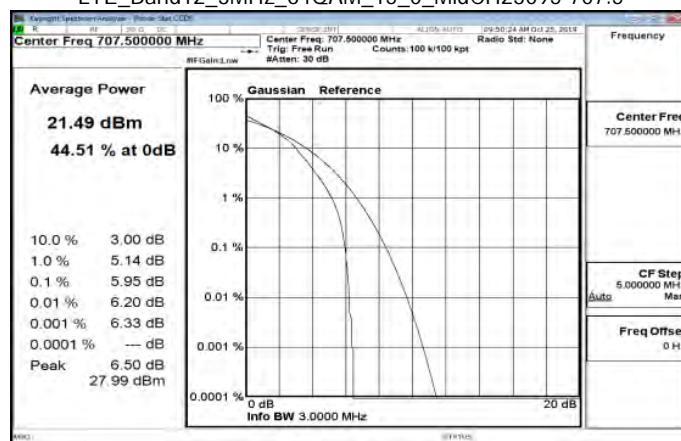
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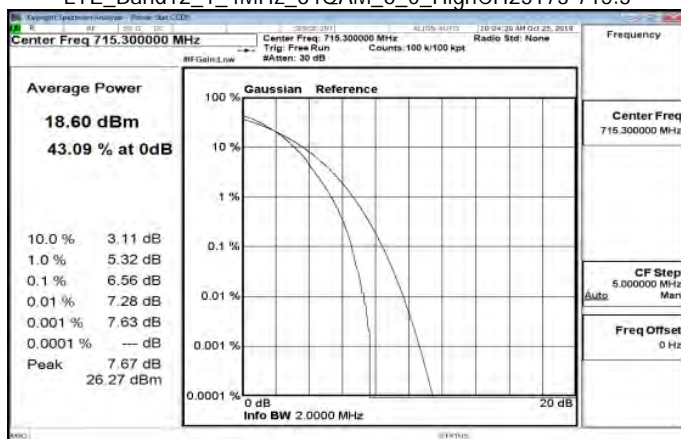
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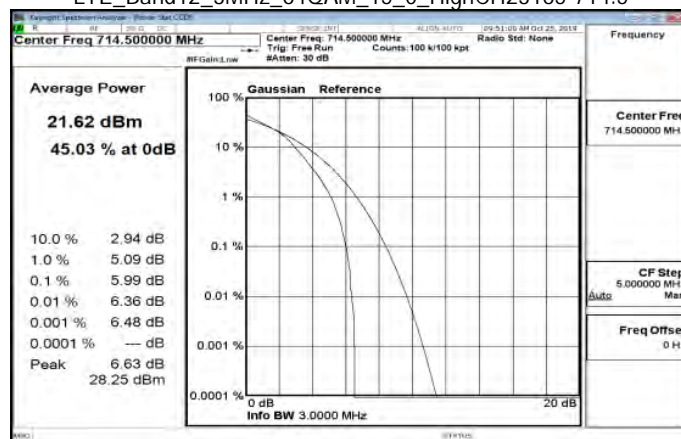
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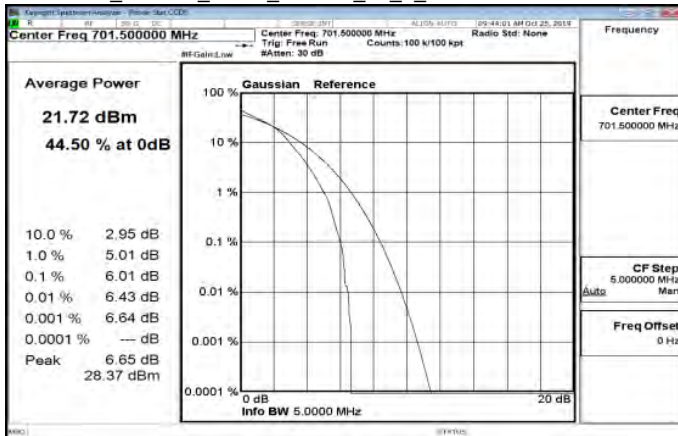
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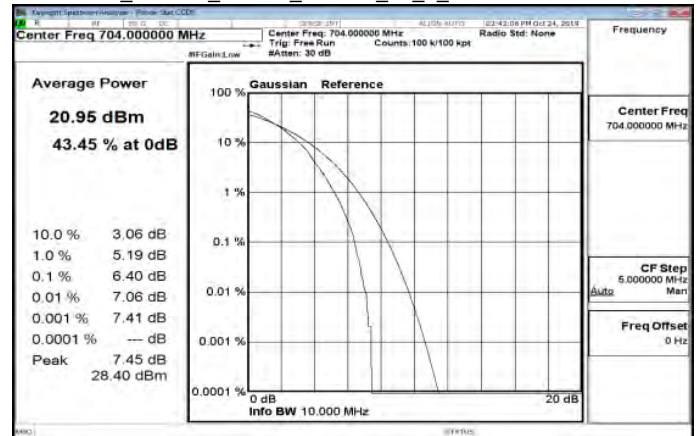
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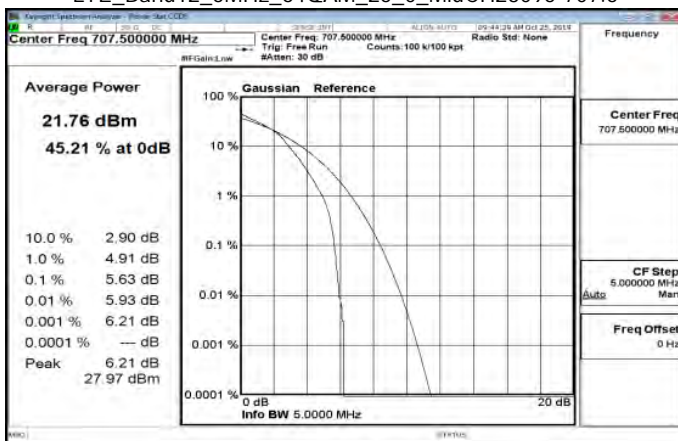
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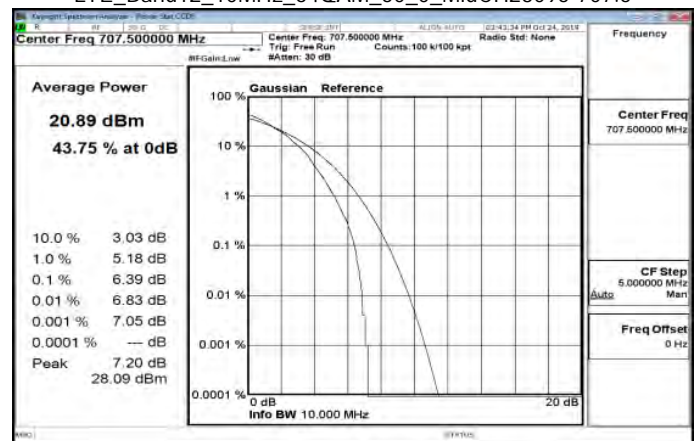
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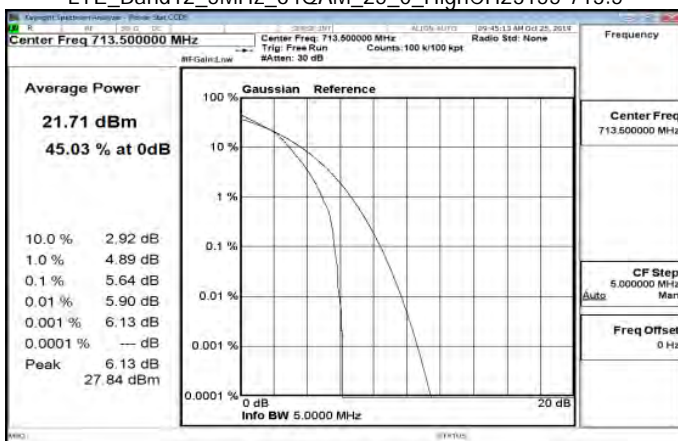
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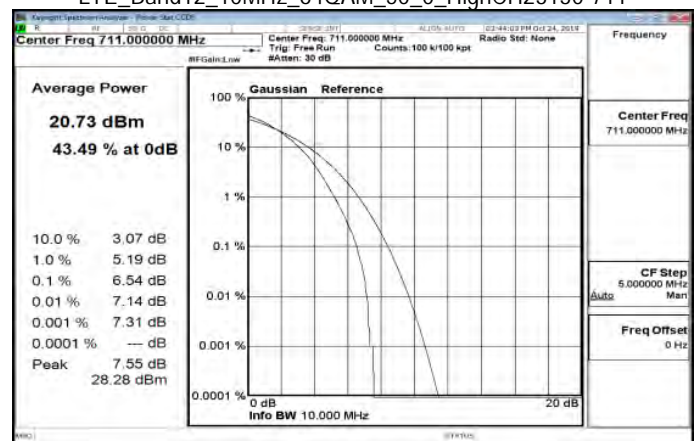
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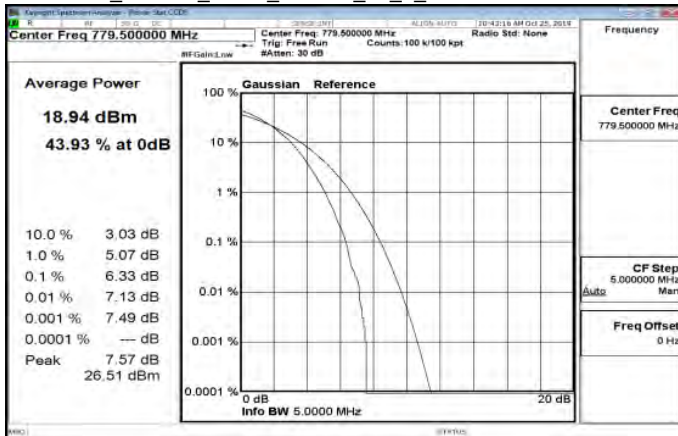


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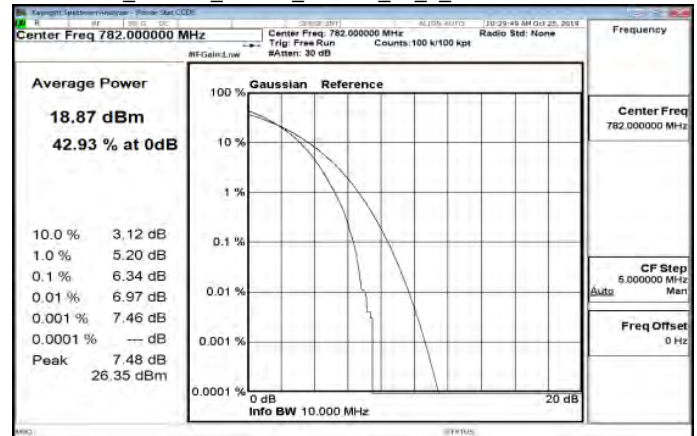
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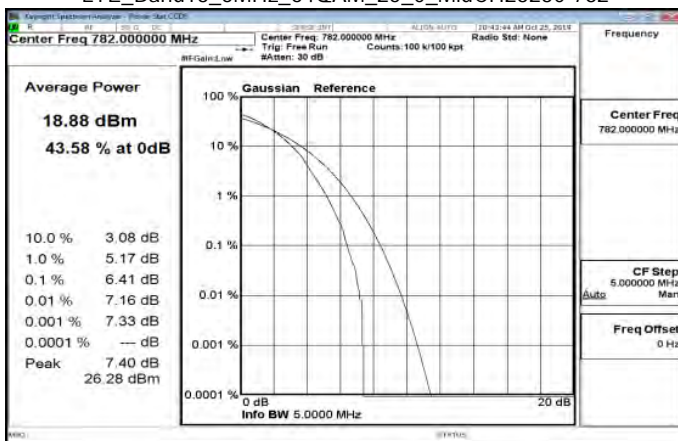
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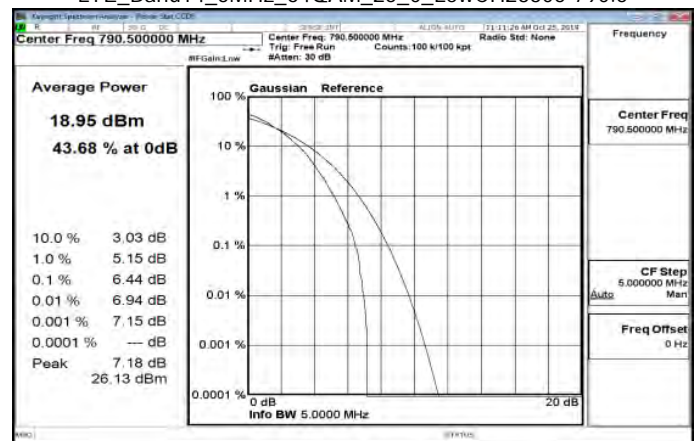
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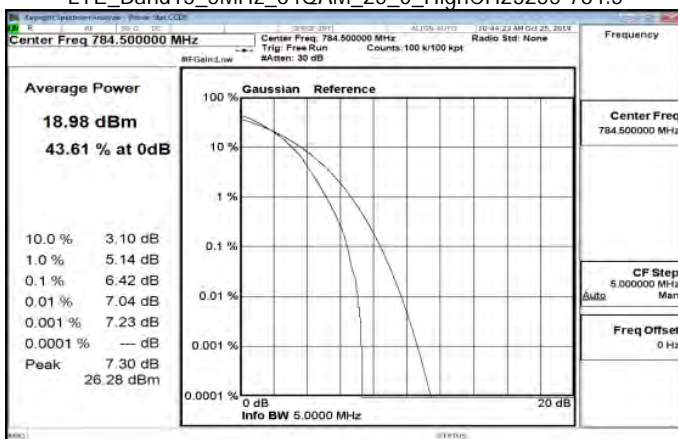
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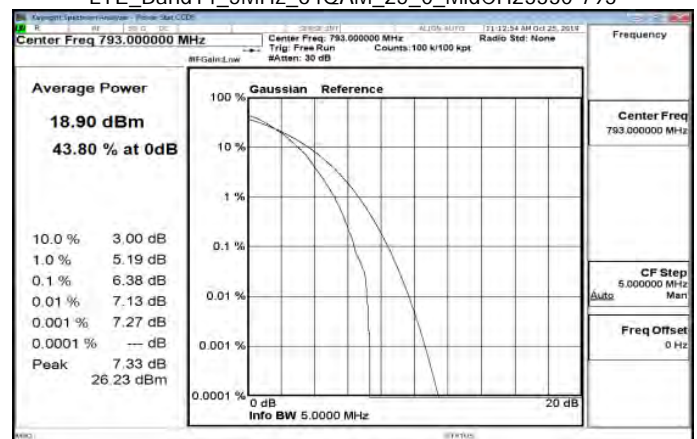
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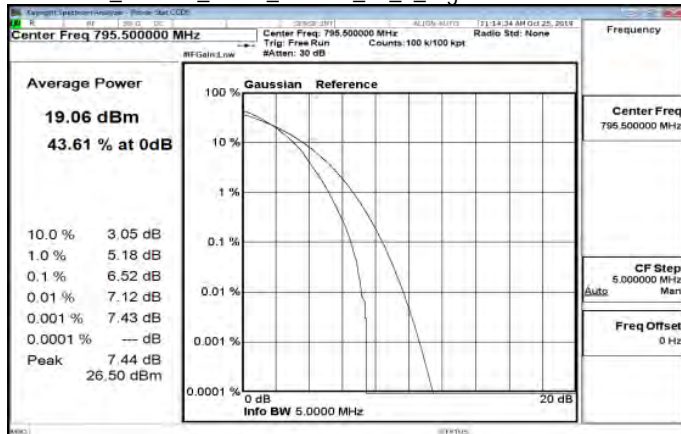


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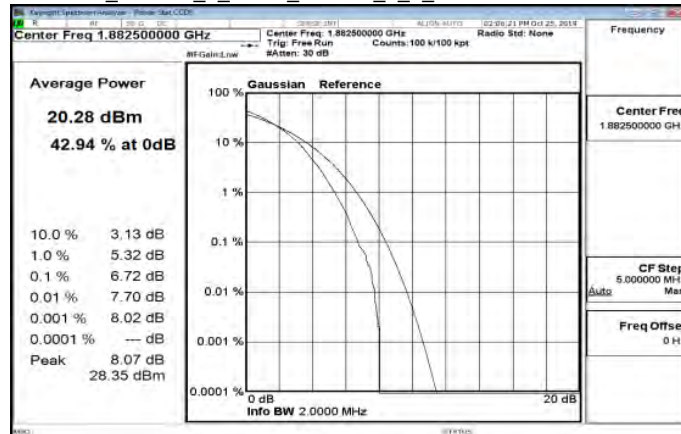
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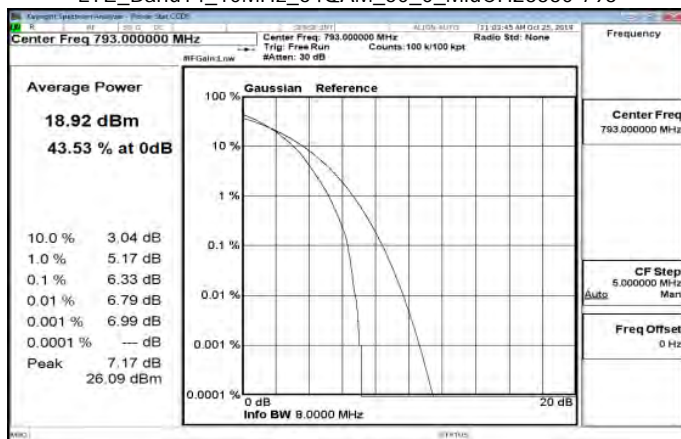
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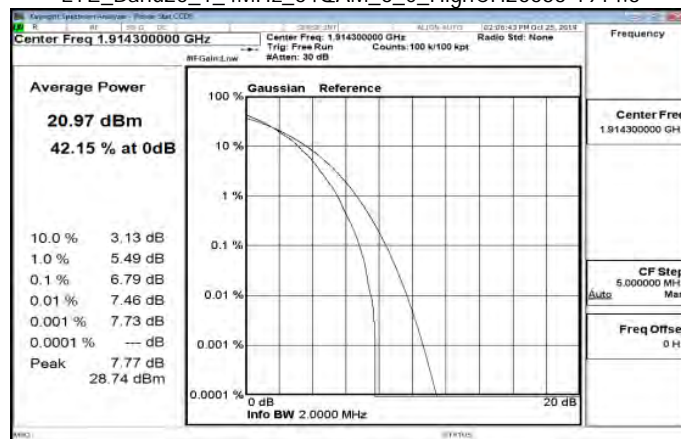
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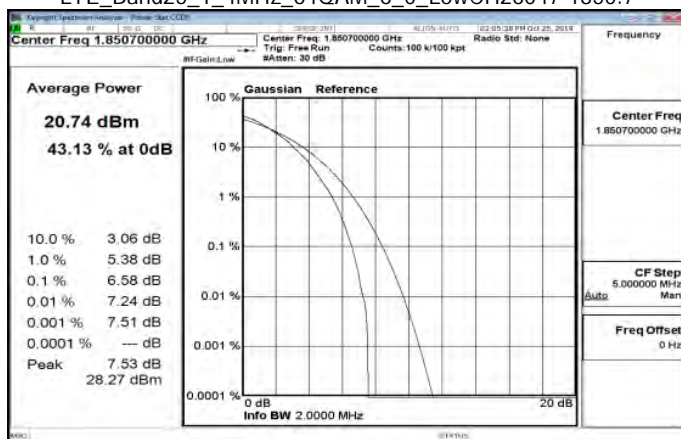
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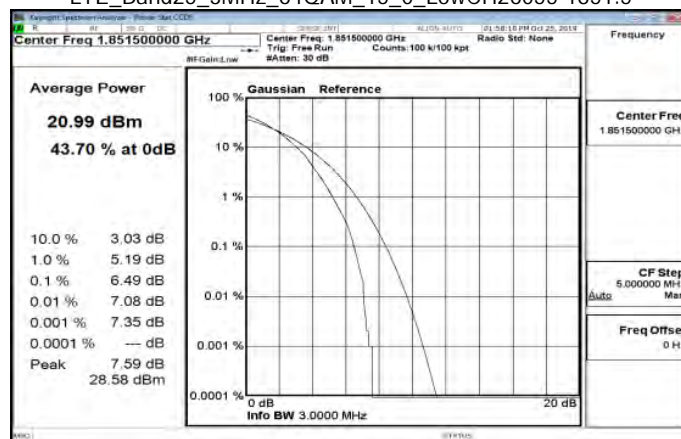
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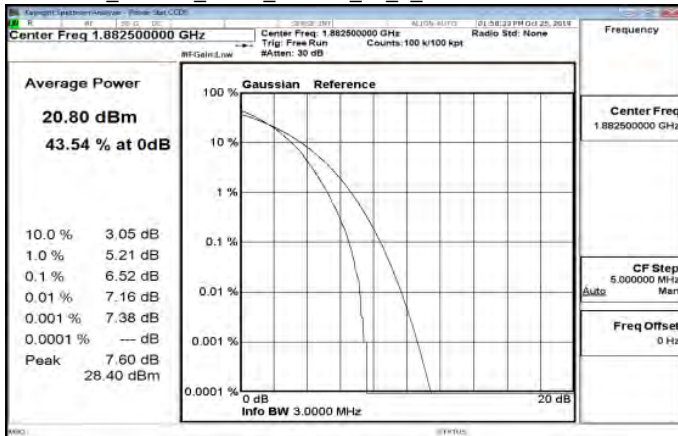


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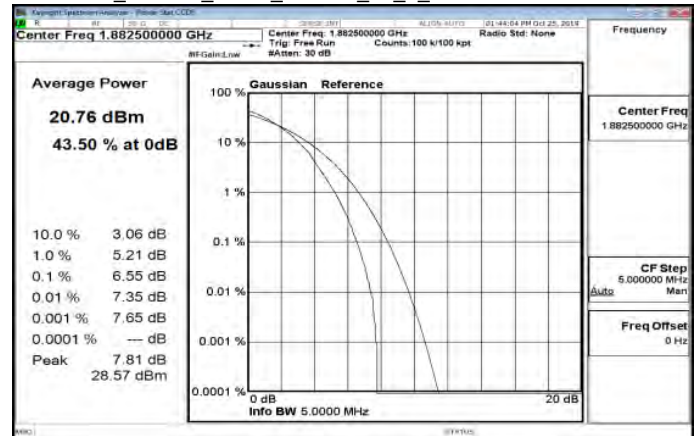
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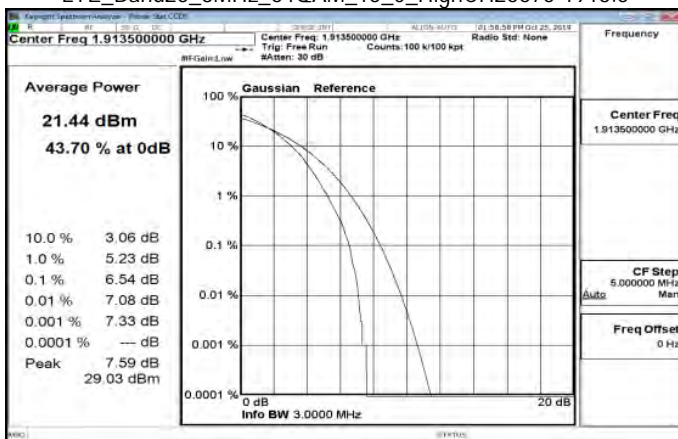
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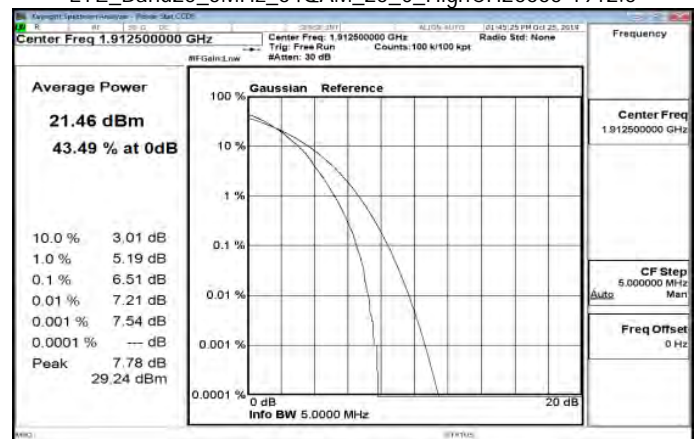
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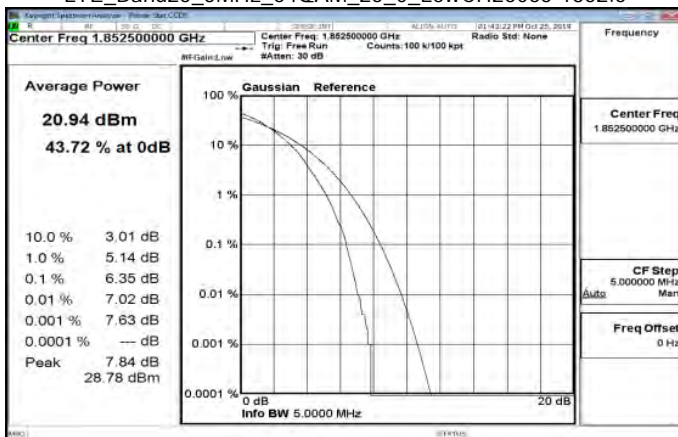
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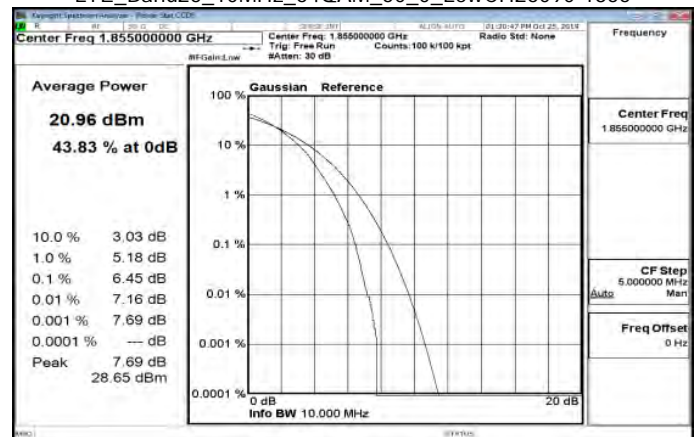
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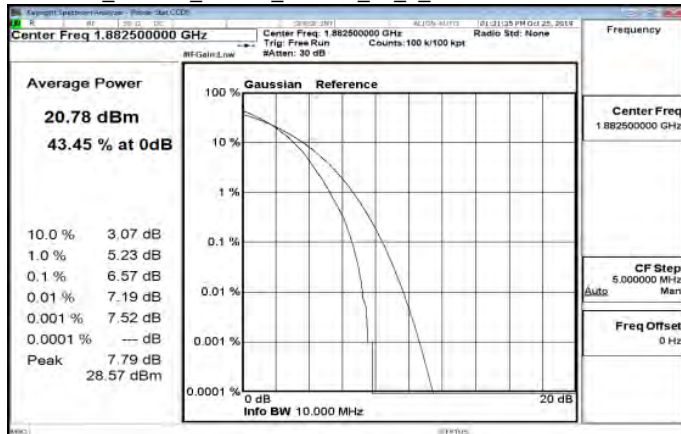
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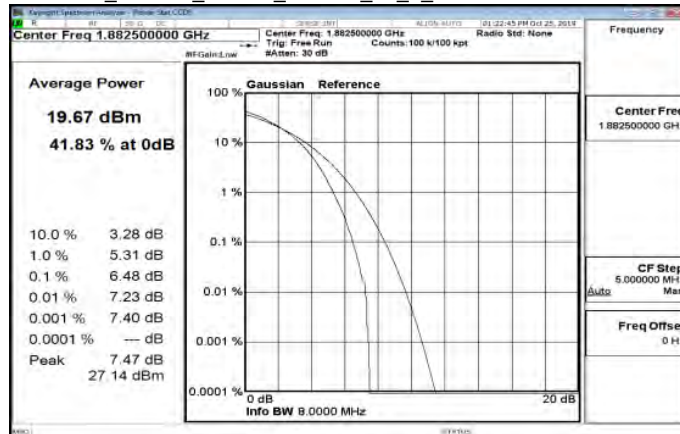
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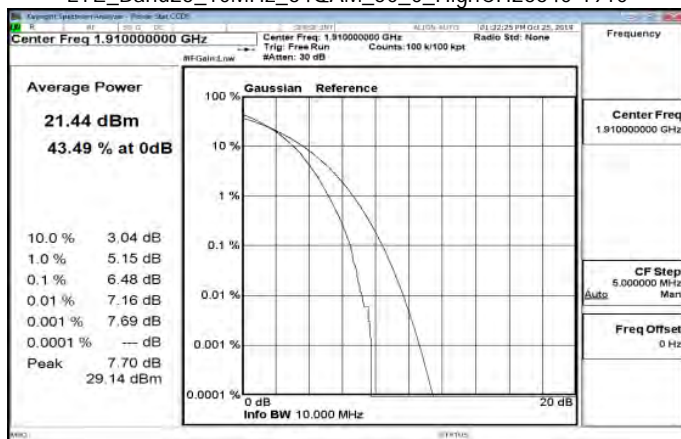
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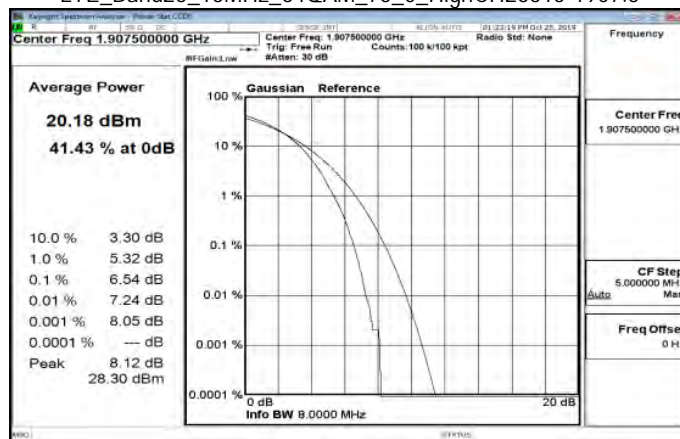
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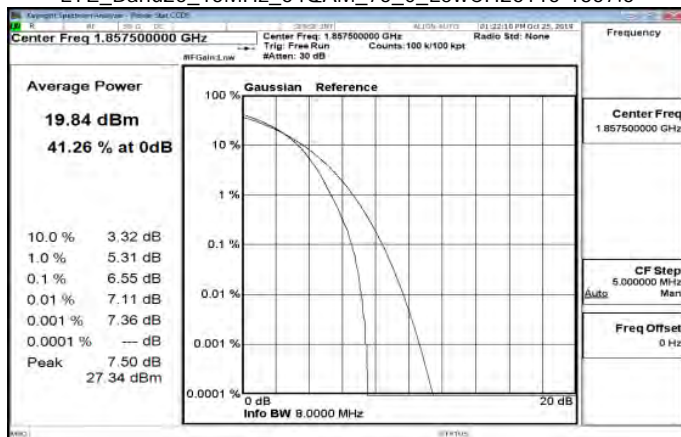
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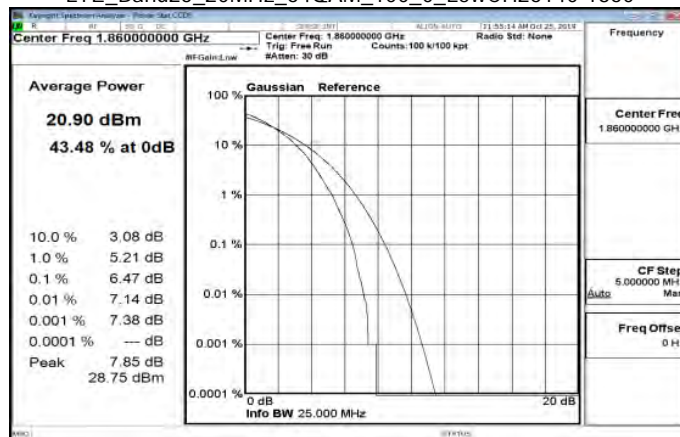
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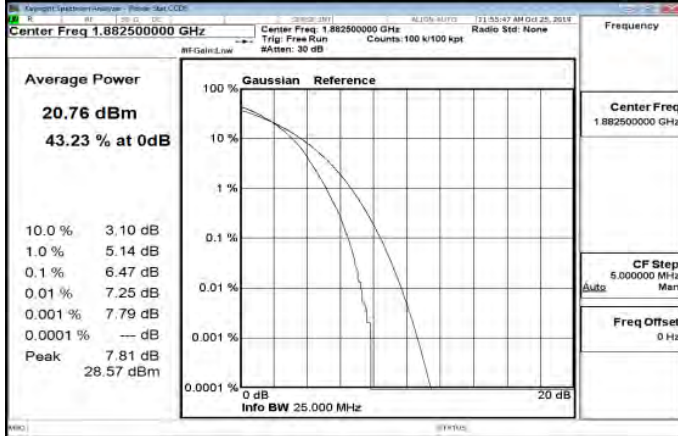


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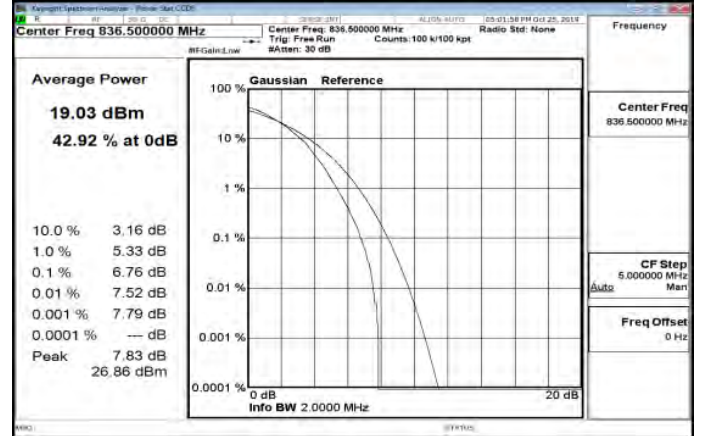
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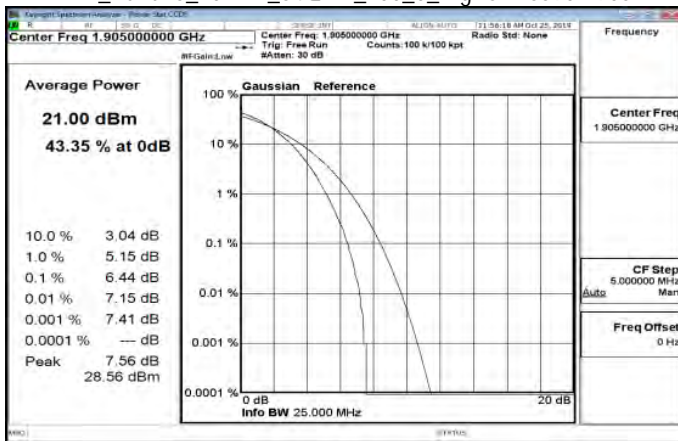
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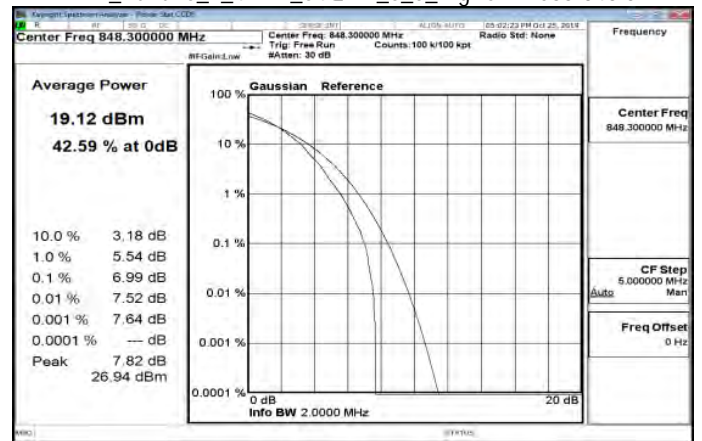
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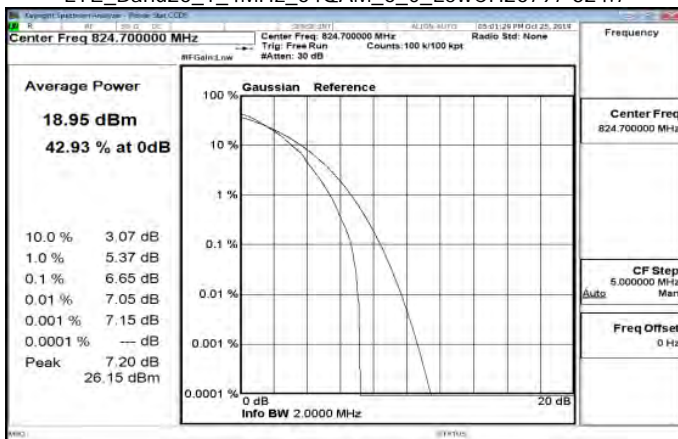
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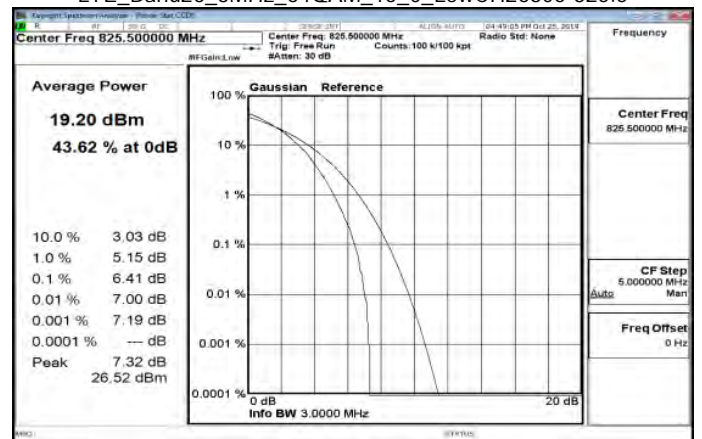
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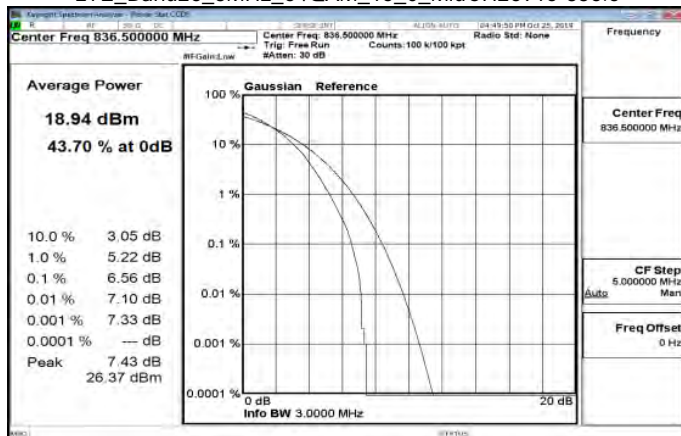
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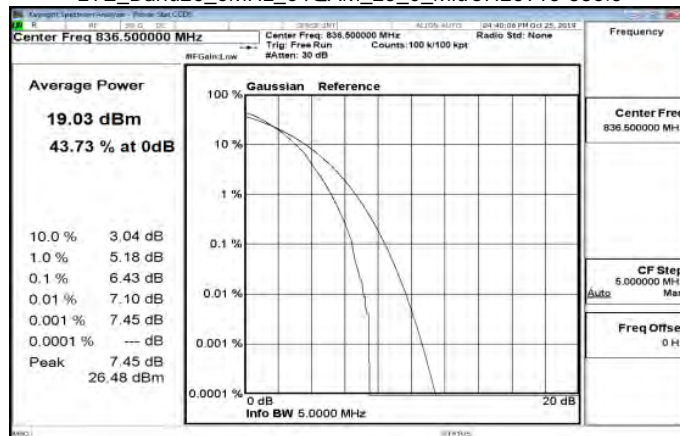
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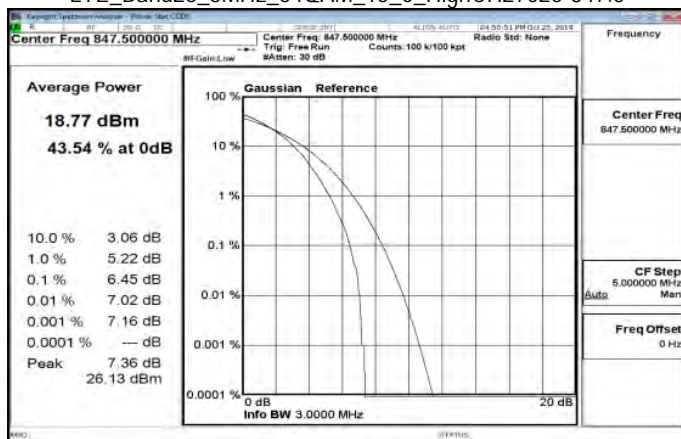
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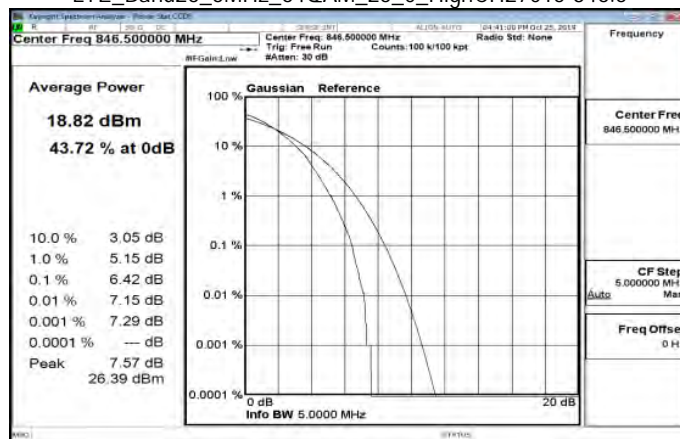
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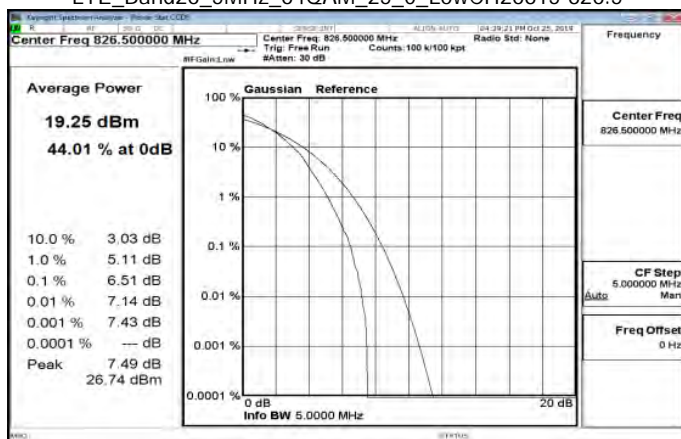
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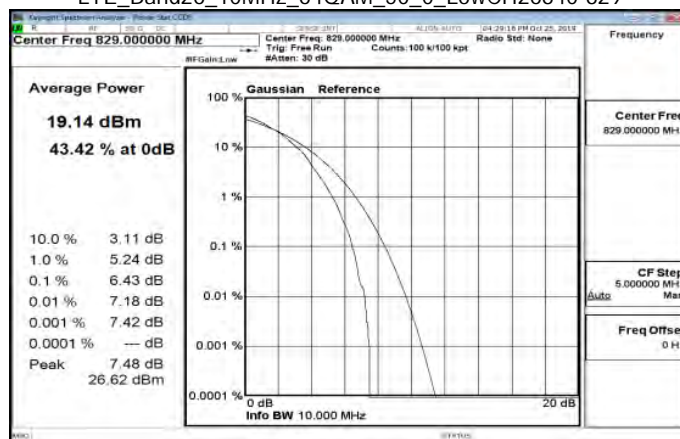
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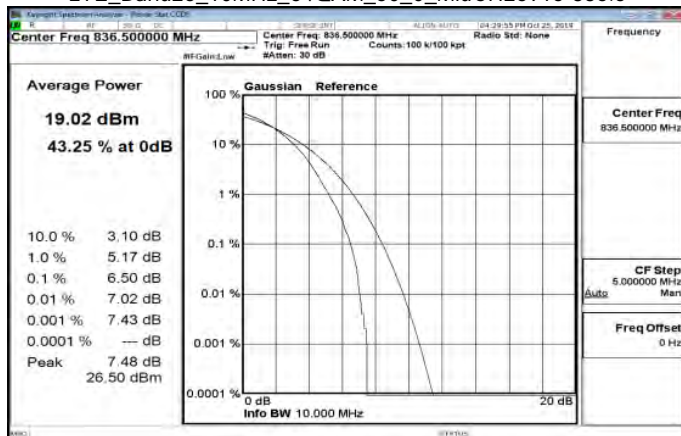


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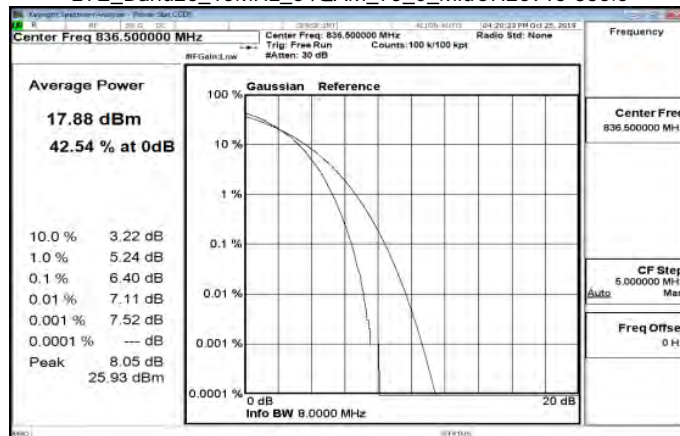
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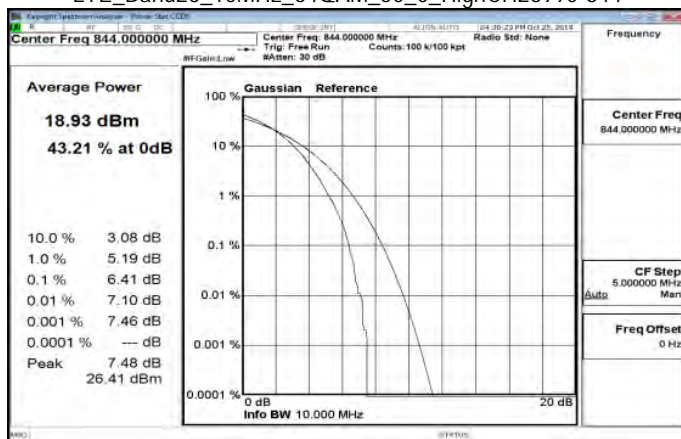
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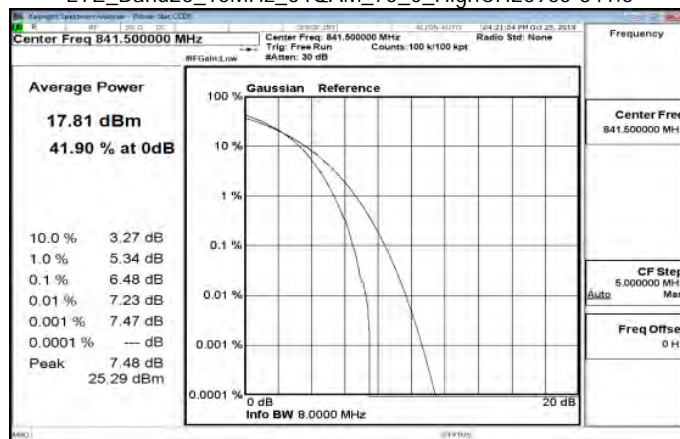
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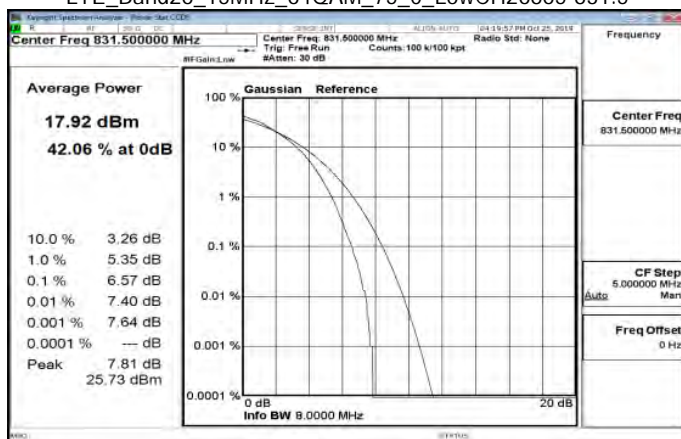
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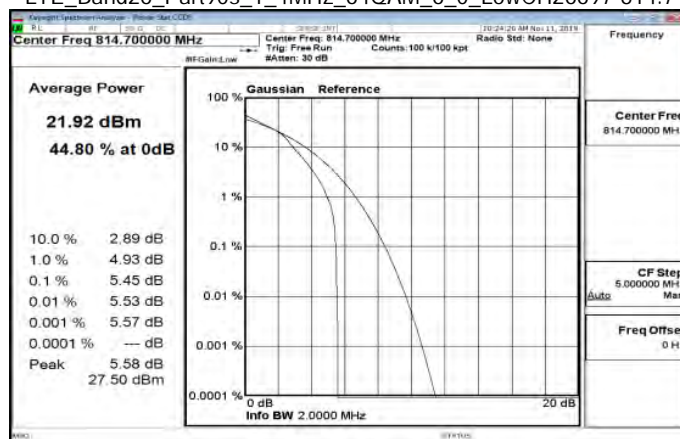
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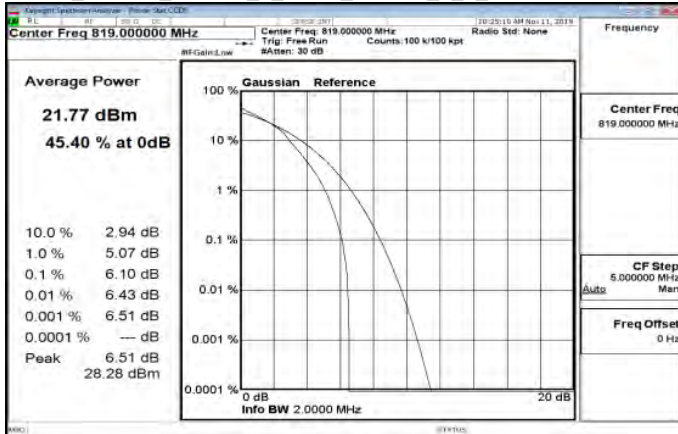
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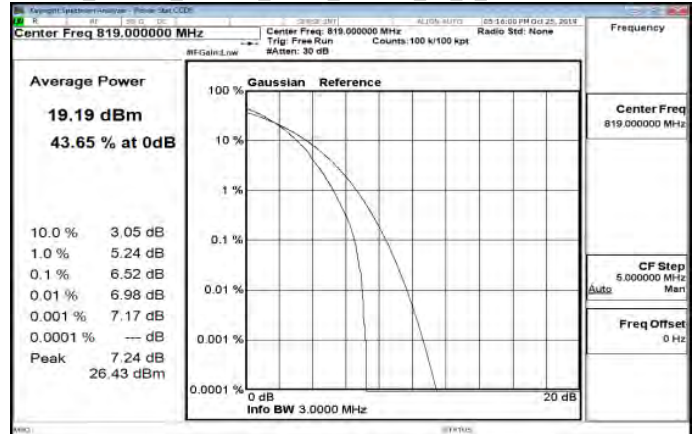
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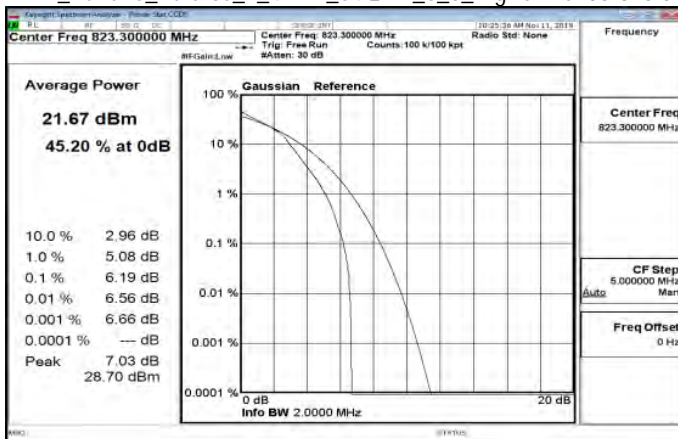
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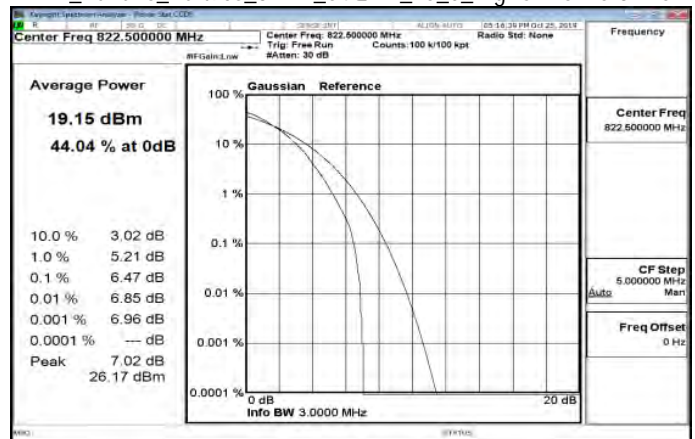
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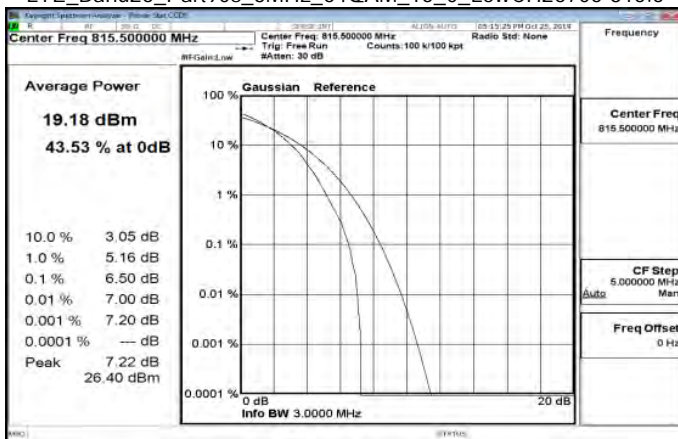
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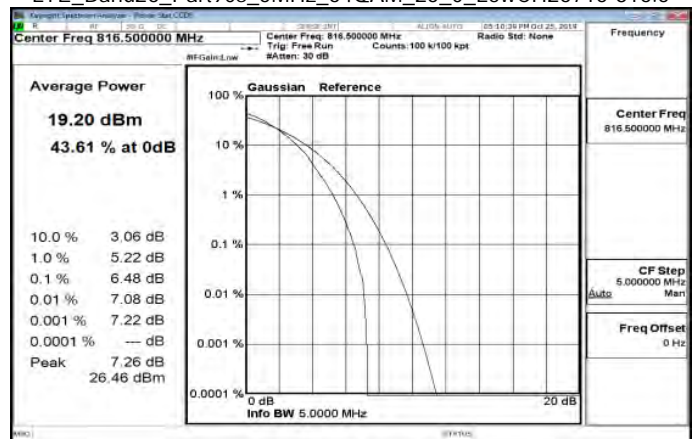
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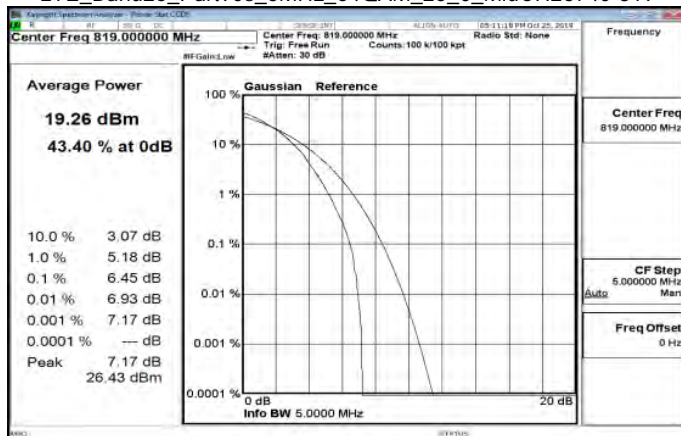


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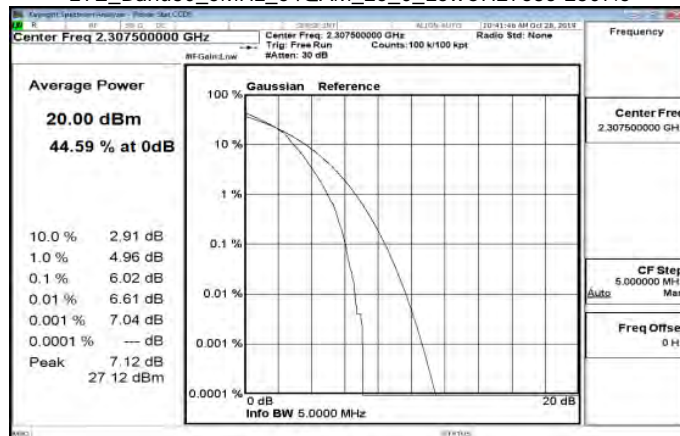
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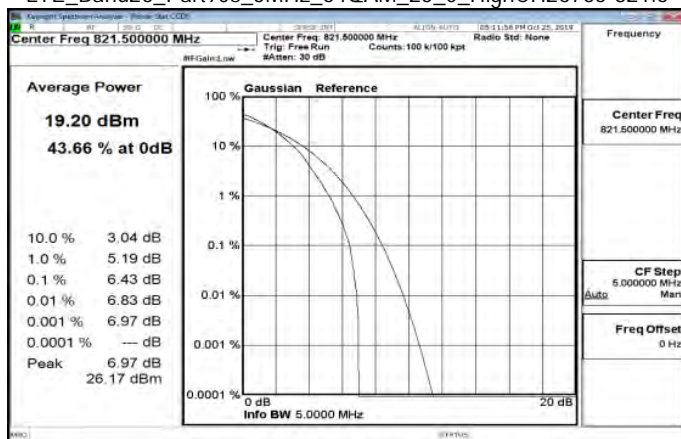
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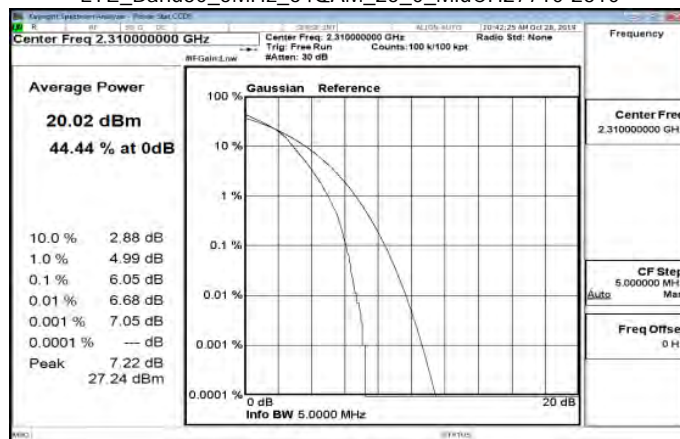
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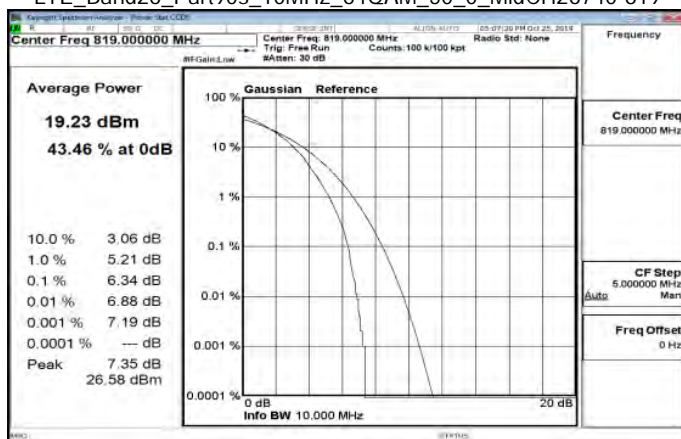
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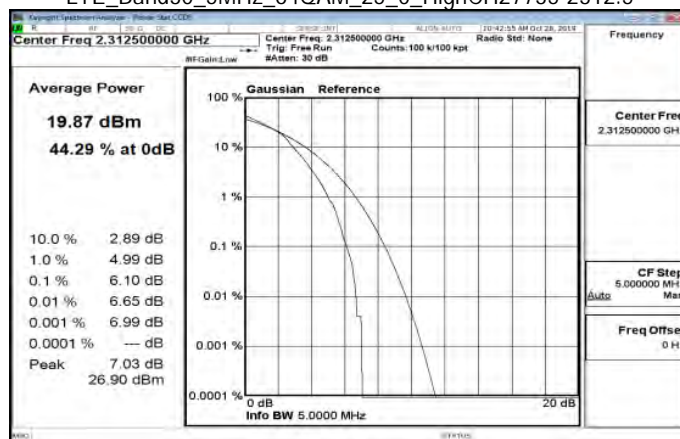
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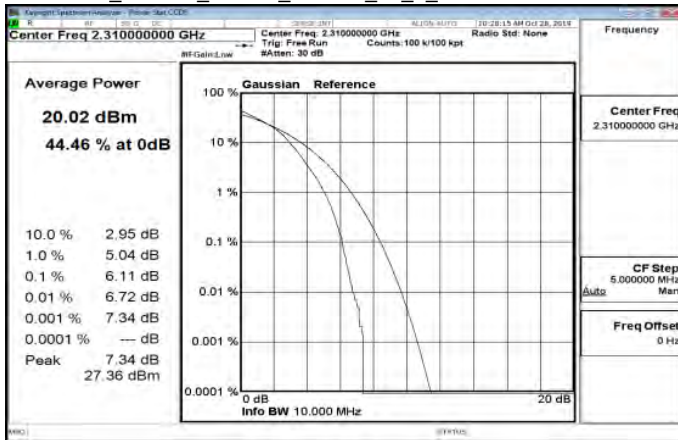
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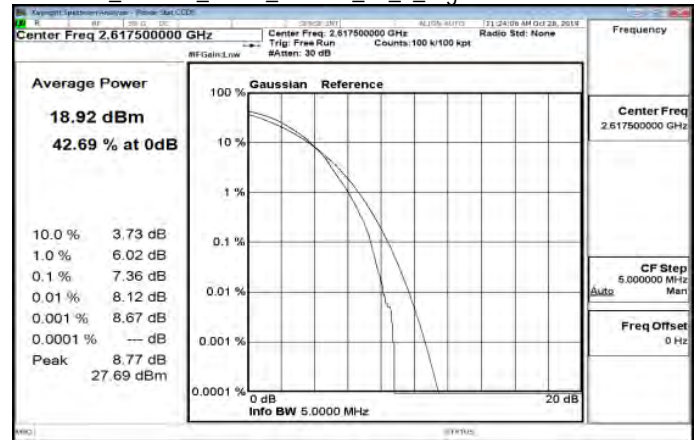
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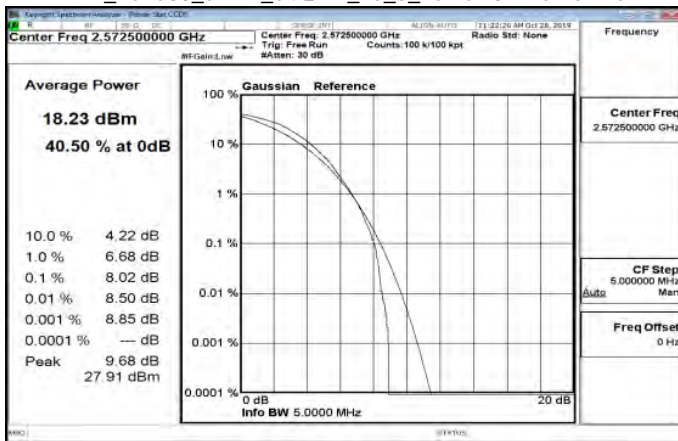
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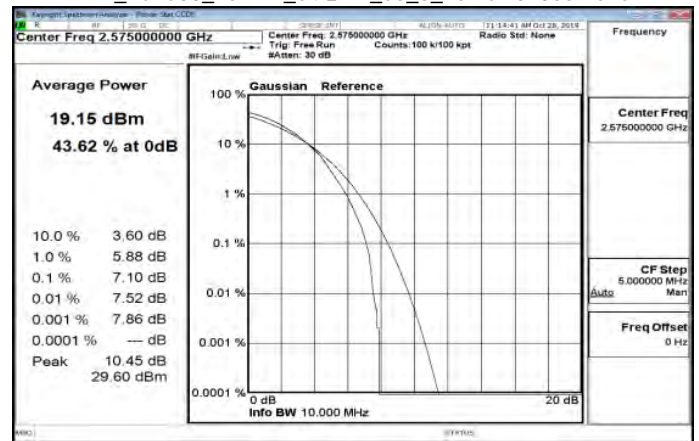
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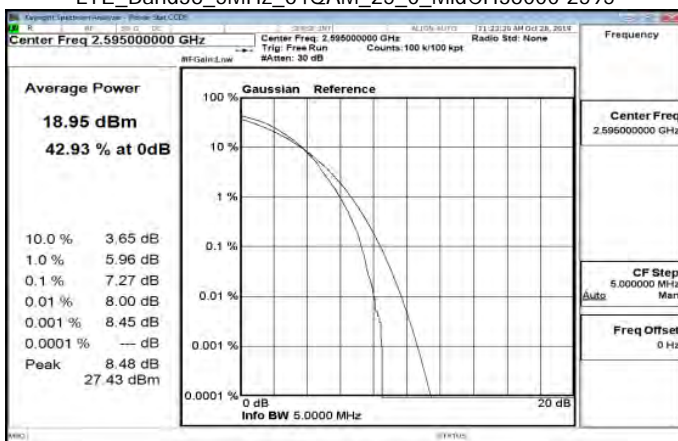
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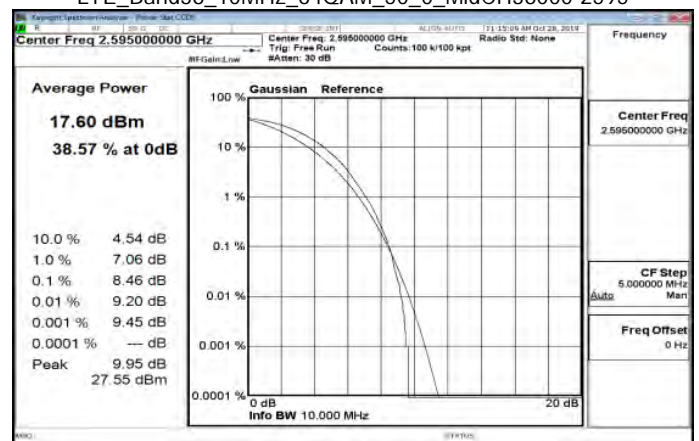
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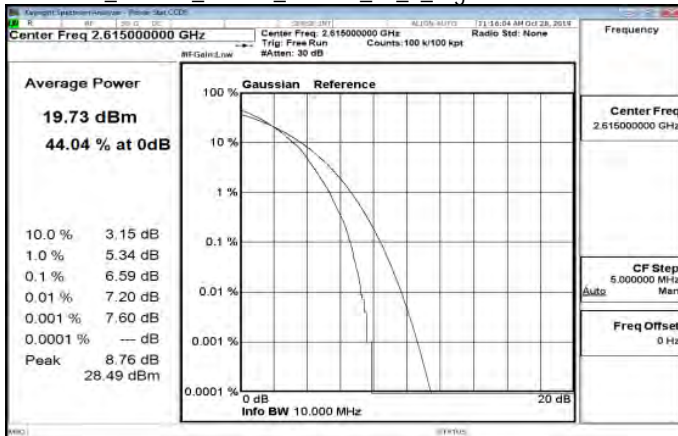


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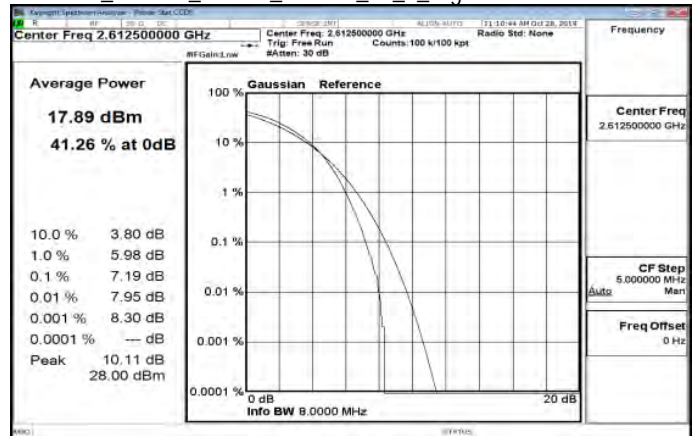
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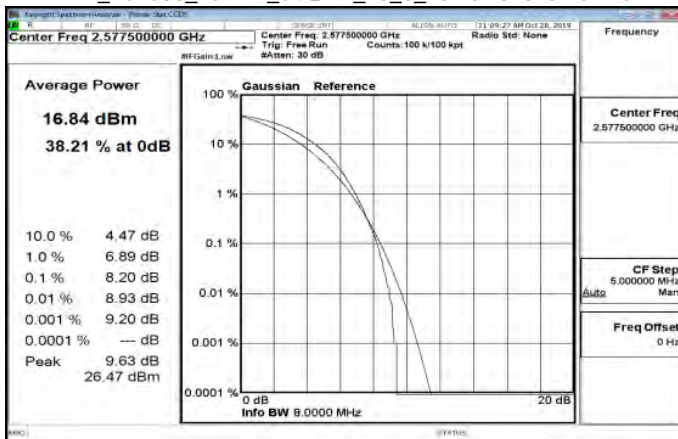
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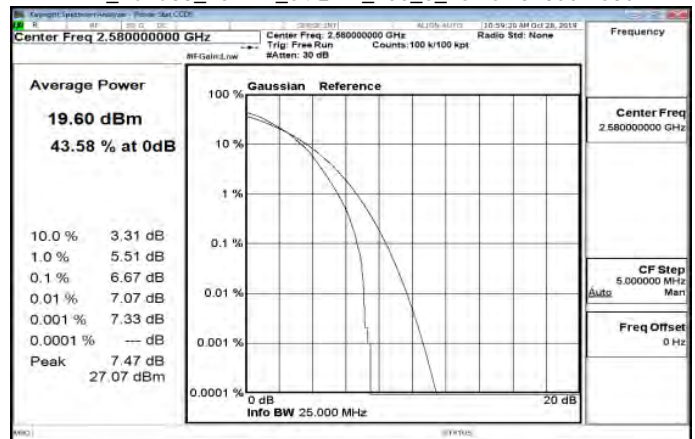
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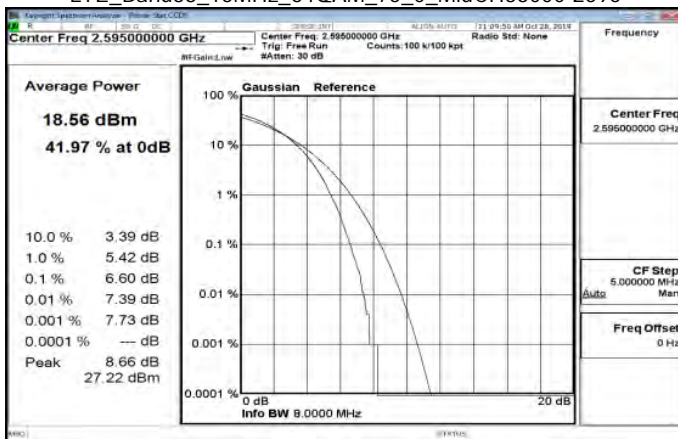
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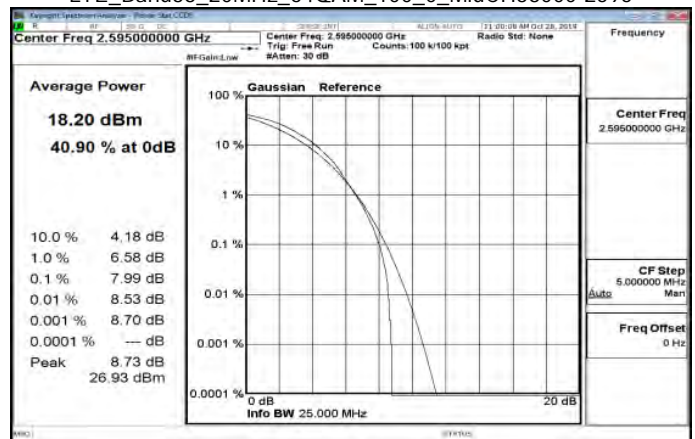
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LTE\_Band38\_15MHz\_64QAM\_75\_0\_MidCH38000-2595



LTE\_Band38\_20MHz\_64QAM\_100\_0\_MidCH38000-2595



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