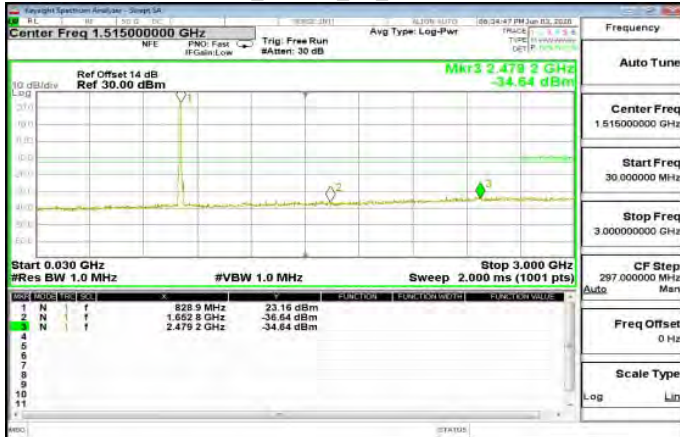
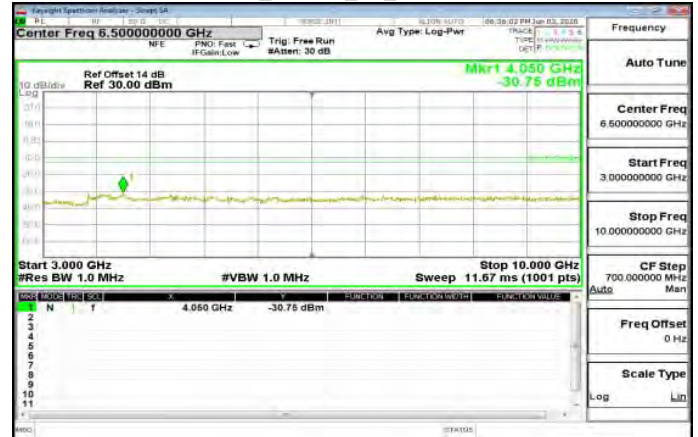


30MHz~3GHz\_HSUPA\_B5\_LowCH4132-826.4



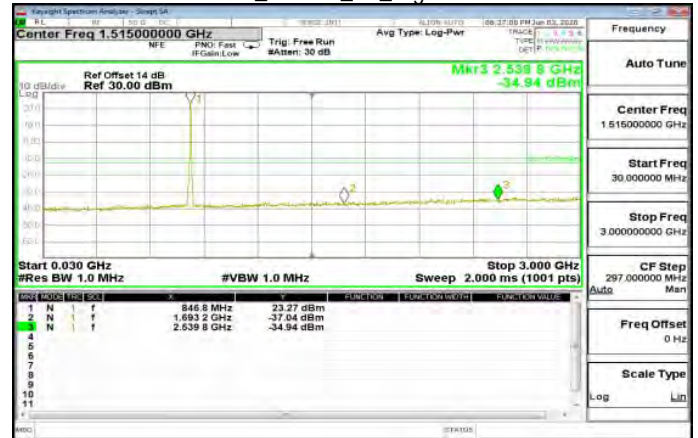
3GHz~10GHz\_HSUPA\_B5\_MidCH4183-836.6



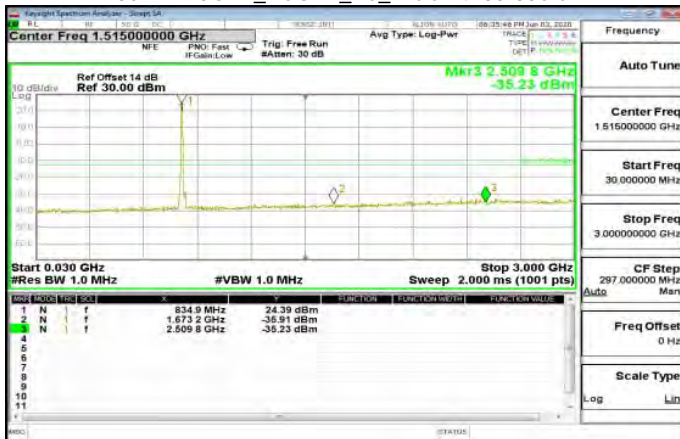
3GHz~10GHz\_HSUPA\_B5\_LowCH4132-826.4



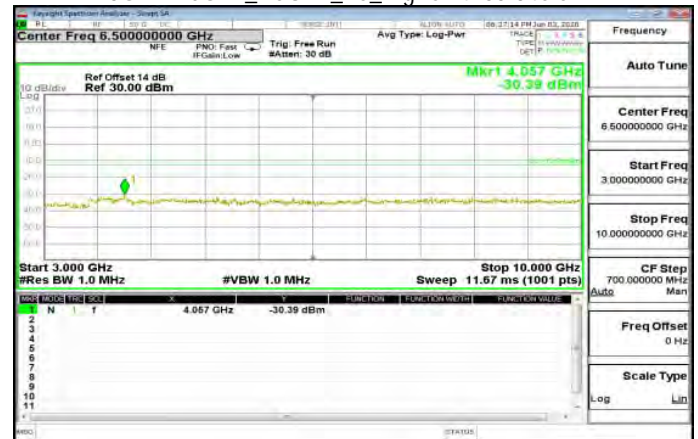
30MHz~3GHz\_HSUPA\_B5\_HighCH4233-846.6



30MHz~3GHz\_HSUPA\_B5\_MidCH4183-836.6



3GHz~10GHz\_HSUPA\_B5\_HighCH4233-846.6

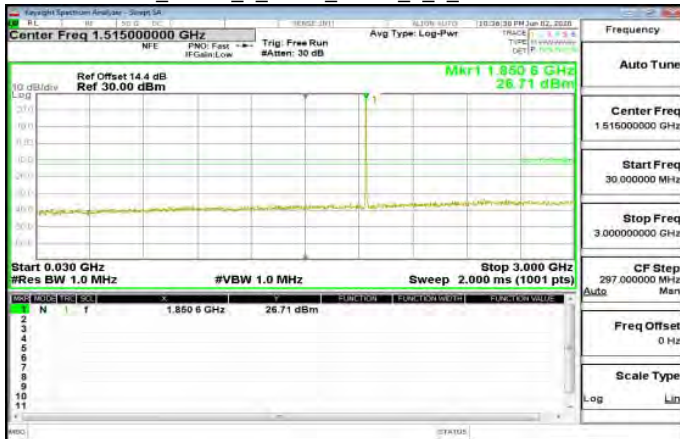


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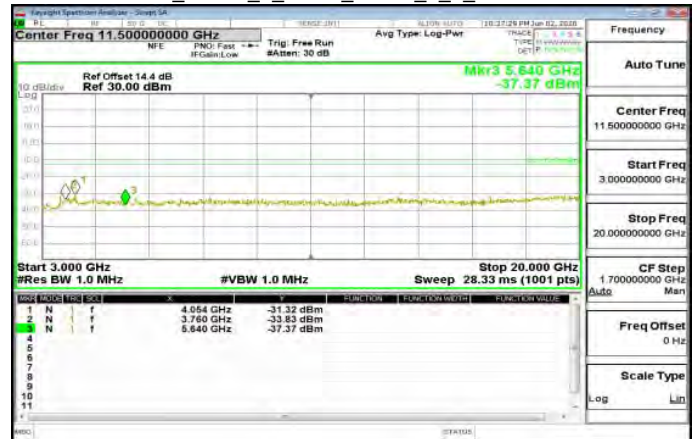
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30MHz~3GHz\_Band2\_1\_4MHz\_QPSK\_1\_0\_LowCH18607-1850.7



3GHz~10GHz\_Band2\_1\_4MHz\_QPSK\_1\_0\_MidCH18900-1880



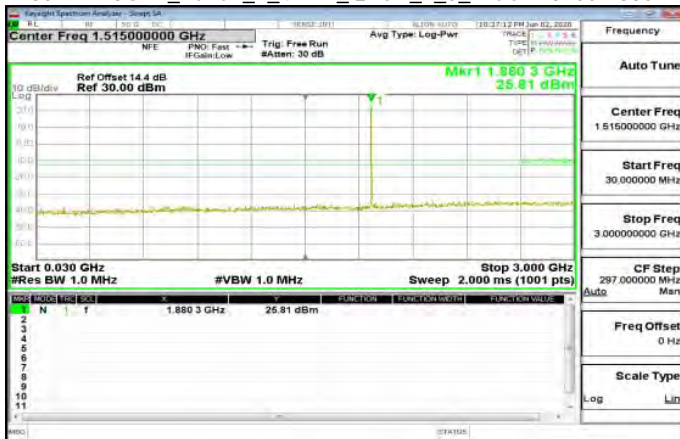
3GHz~10GHz\_Band2\_1\_4MHz\_QPSK\_1\_0\_LowCH18607-1850.7



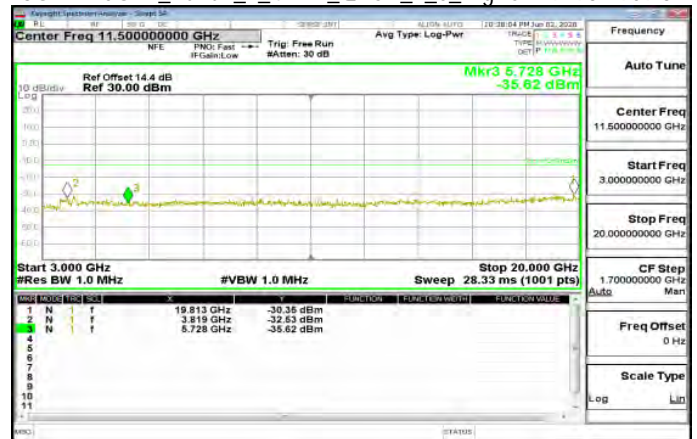
30MHz~3GHz\_Band2\_1\_4MHz\_QPSK\_1\_0\_HighCH19193-1909.3



30MHz~3GHz\_Band2\_1\_4MHz\_QPSK\_1\_0\_MidCH18900-1880



3GHz~10GHz\_Band2\_1\_4MHz\_QPSK\_1\_0\_HighCH19193-1909.3



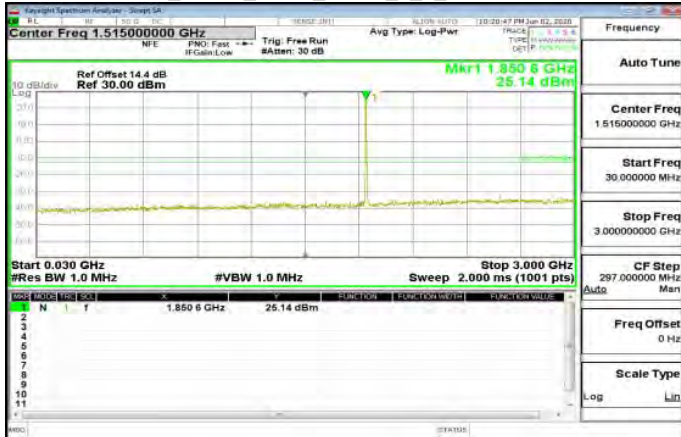
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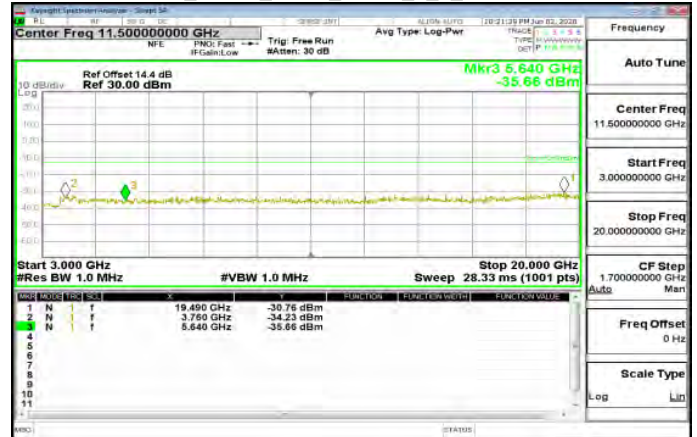
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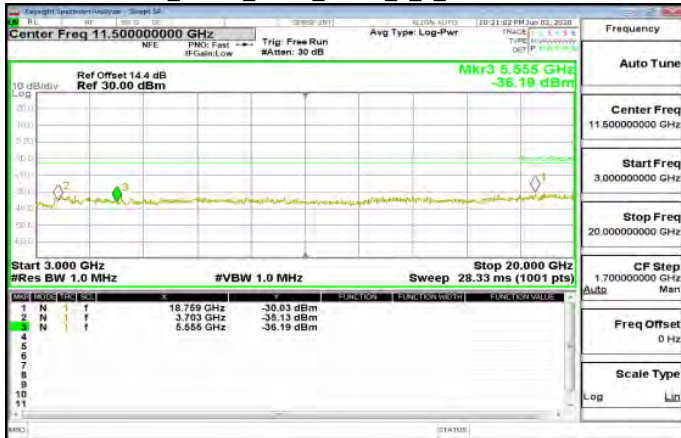
30MHz~3GHz\_Band2\_3MHz\_QPSK\_1\_0\_LowCH18615-1851.5



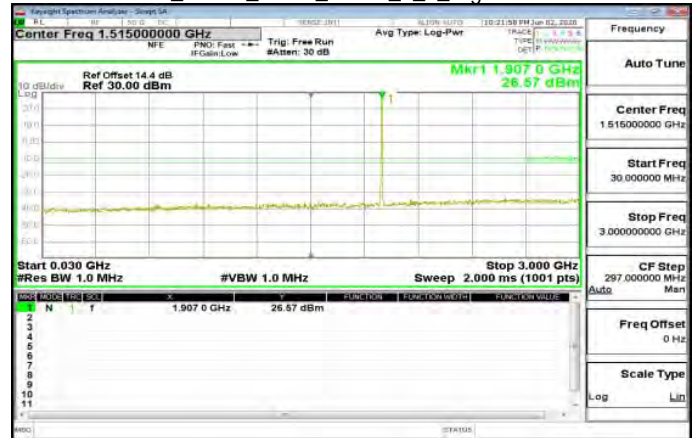
3GHz~10GHz\_Band2\_3MHz\_QPSK\_1\_0\_MidCH18900-1880



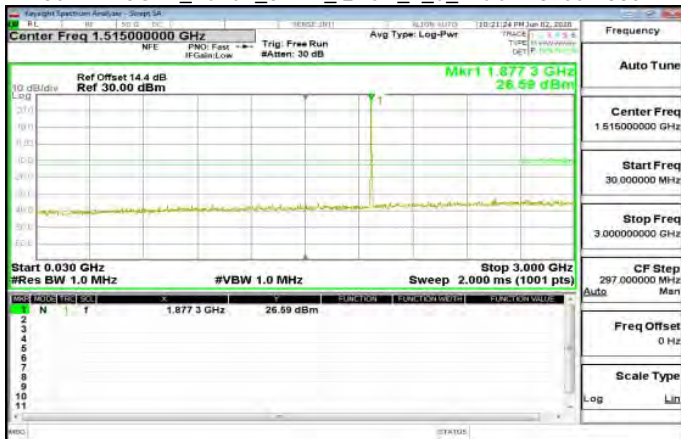
3GHz~10GHz\_Band2\_3MHz\_QPSK\_1\_0\_LowCH18615-1851.5



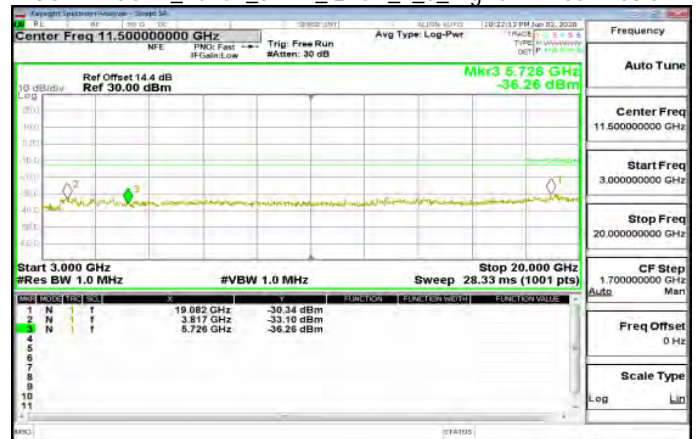
30MHz~3GHz\_Band2\_3MHz\_QPSK\_1\_0\_HighCH19185-1908.5



30MHz~3GHz\_Band2\_3MHz\_QPSK\_1\_0\_MidCH18900-1880



3GHz~10GHz\_Band2\_3MHz\_QPSK\_1\_0\_HighCH19185-1908.5

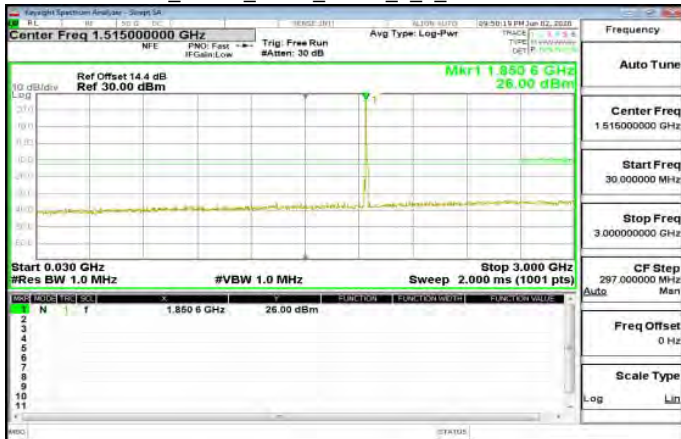


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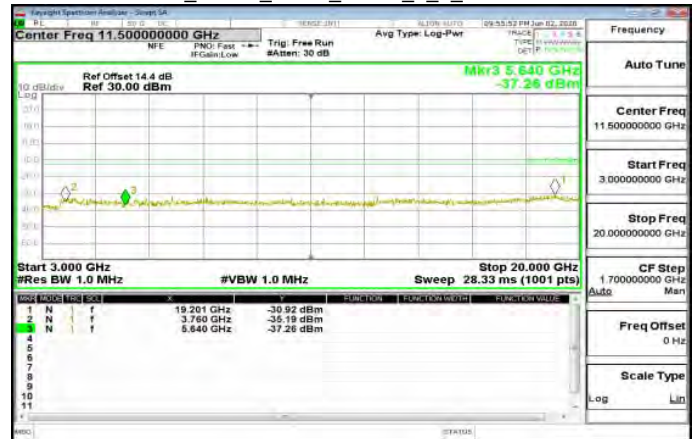
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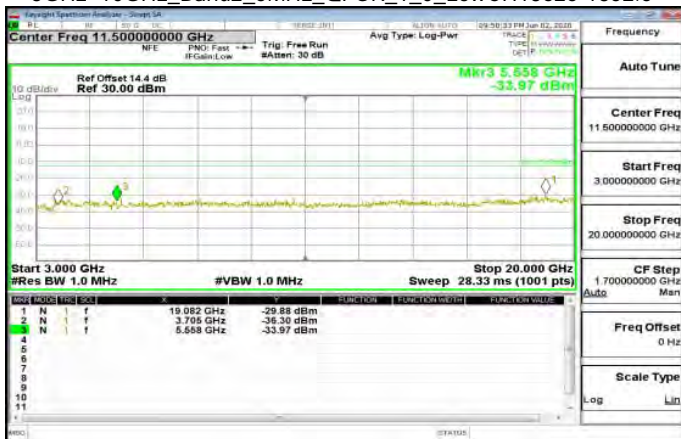
30MHz~3GHz\_Band2\_5MHz\_QPSK\_1\_0\_LowCH18625-1852.5



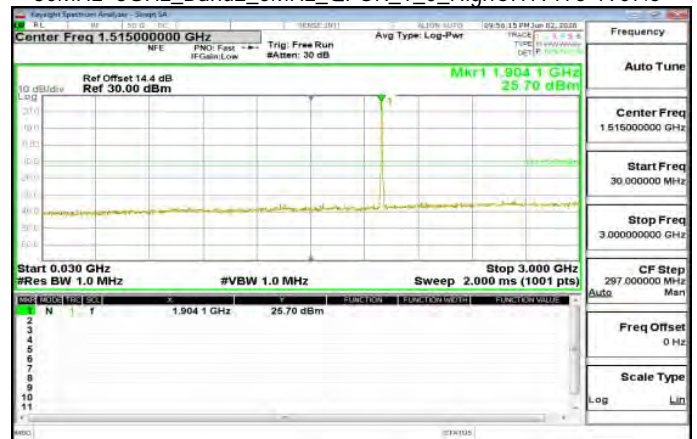
3GHz~10GHz\_Band2\_5MHz\_QPSK\_1\_0\_MidCH18900-1880



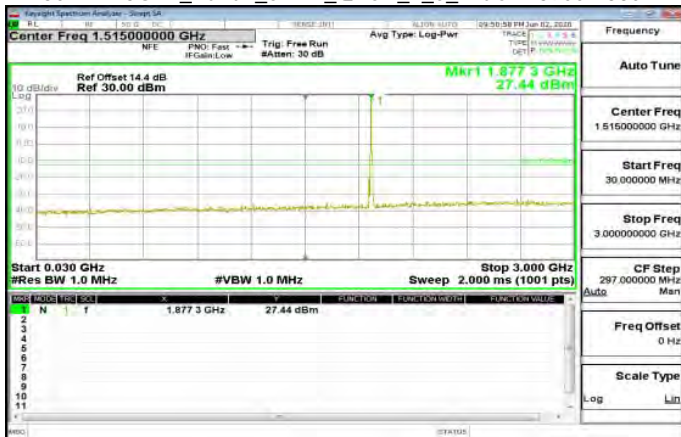
3GHz~10GHz\_Band2\_5MHz\_QPSK\_1\_0\_LowCH18625-1852.5



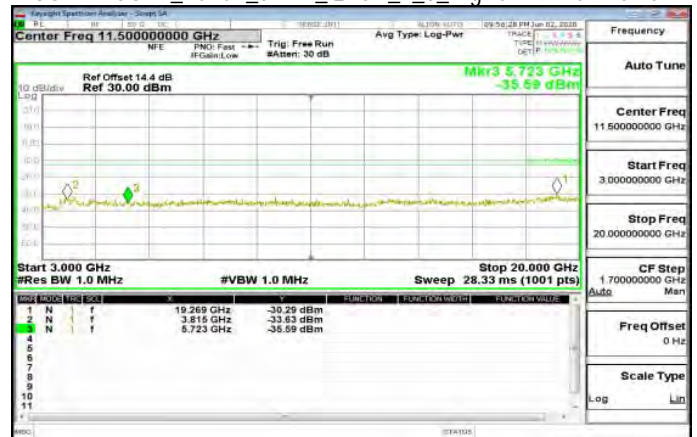
30MHz~3GHz\_Band2\_5MHz\_QPSK\_1\_0\_HighCH19175-1907.5



30MHz~3GHz\_Band2\_5MHz\_QPSK\_1\_0\_MidCH18900-1880



3GHz~10GHz\_Band2\_5MHz\_QPSK\_1\_0\_HighCH19175-1907.5



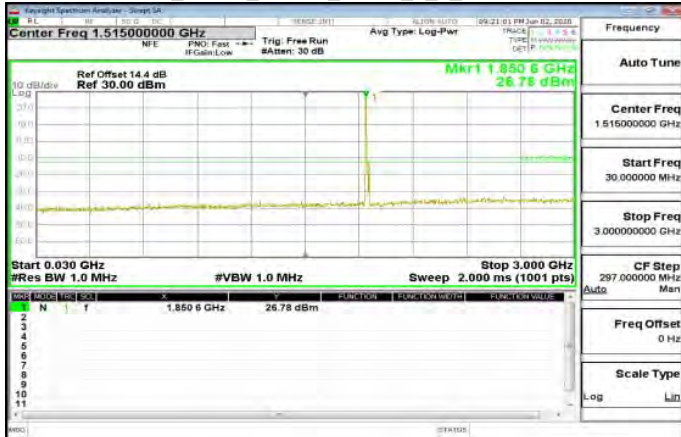
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30MHz~3GHz\_Band2\_10MHz\_QPSK\_1\_0\_LowCH18650-1855



3GHz~10GHz\_Band2\_10MHz\_QPSK\_1\_0\_MidCH18900-1880



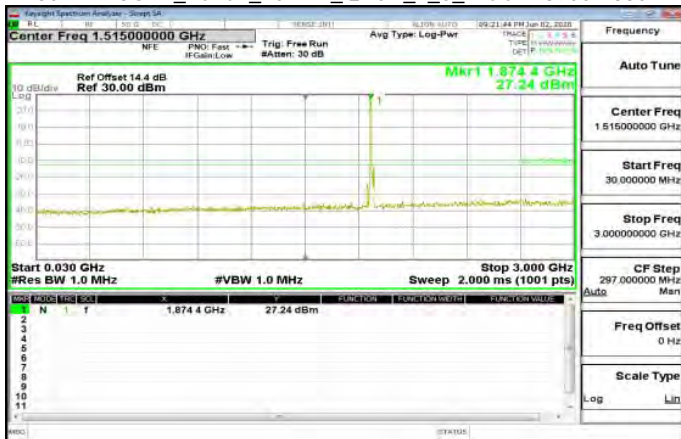
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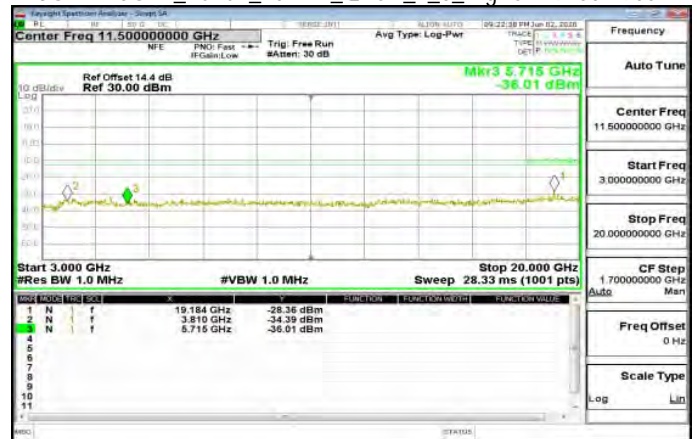
30MHz~3GHz\_Band2\_10MHz\_QPSK\_1\_0\_HighCH19150-1905



30MHz~3GHz\_Band2\_10MHz\_QPSK\_1\_0\_MidCH18900-1880



3GHz~10GHz\_Band2\_10MHz\_QPSK\_1\_0\_HighCH19150-1905

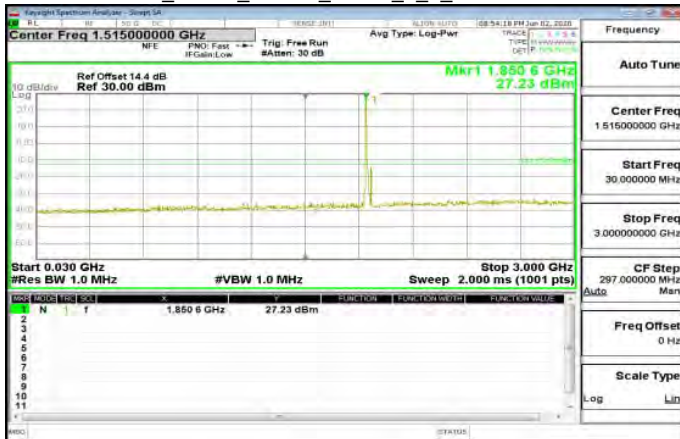


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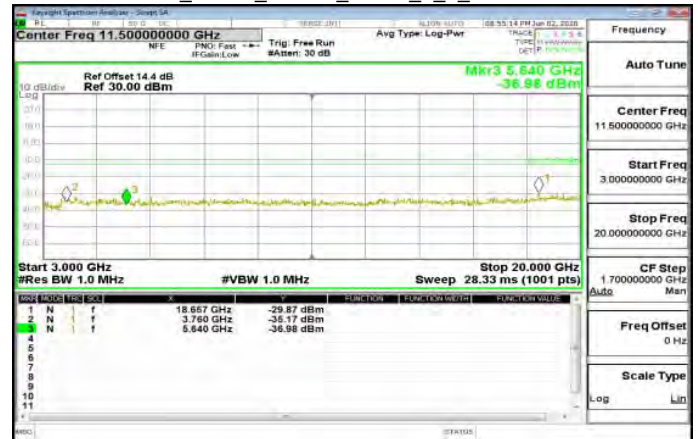
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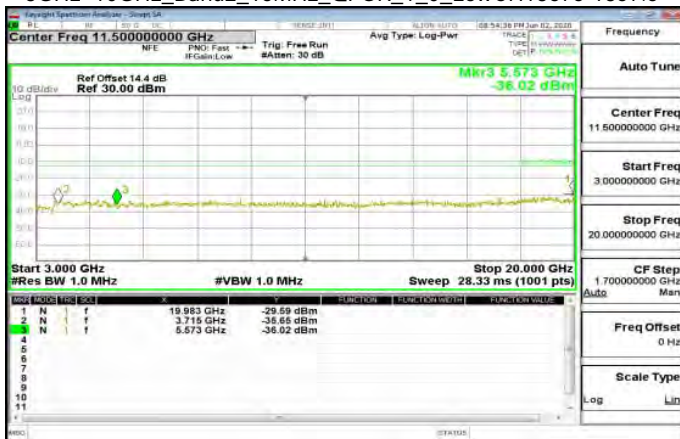
30MHz~3GHz\_Band2\_15MHz\_QPSK\_1\_0\_LowCH18675-1857.5



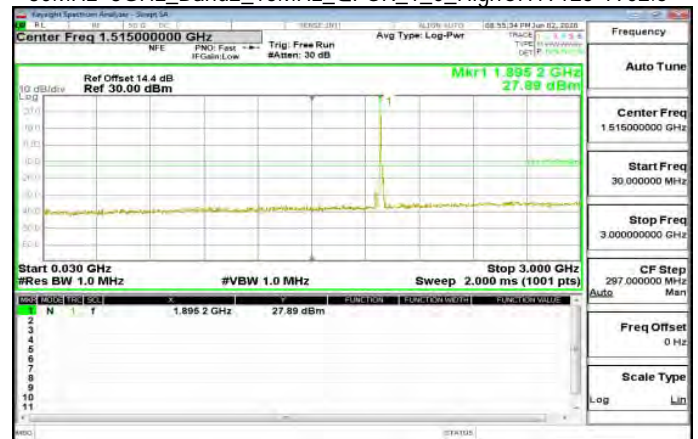
3GHz~10GHz\_Band2\_15MHz\_QPSK\_1\_0\_MidCH18900-1880



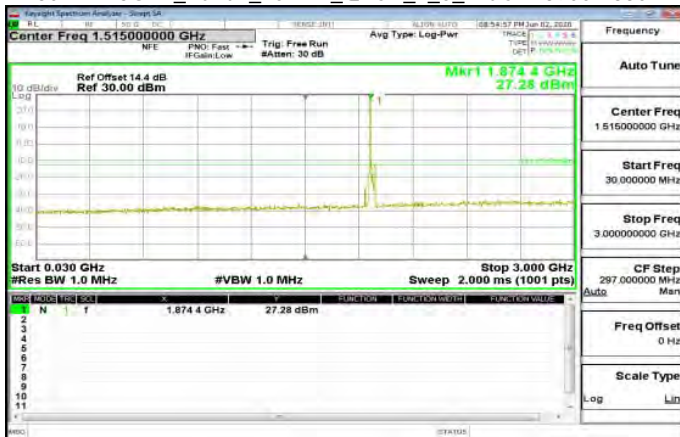
3GHz~10GHz\_Band2\_15MHz\_QPSK\_1\_0\_LowCH18675-1857.5



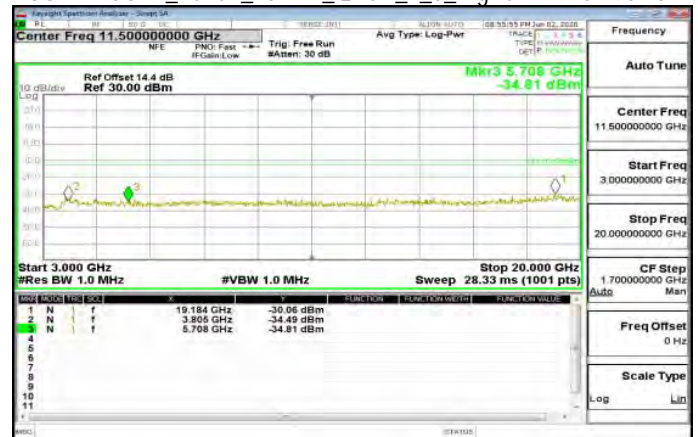
30MHz~3GHz\_Band2\_15MHz\_QPSK\_1\_0\_HighCH19125-1902.5



30MHz~3GHz\_Band2\_15MHz\_QPSK\_1\_0\_MidCH18900-1880



3GHz~10GHz\_Band2\_15MHz\_QPSK\_1\_0\_HighCH19125-1902.5



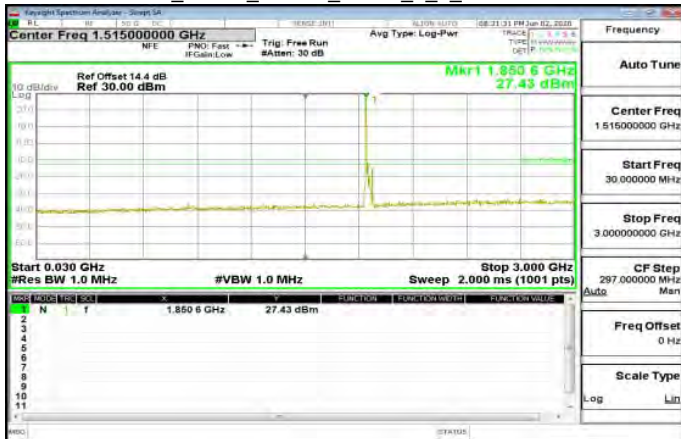
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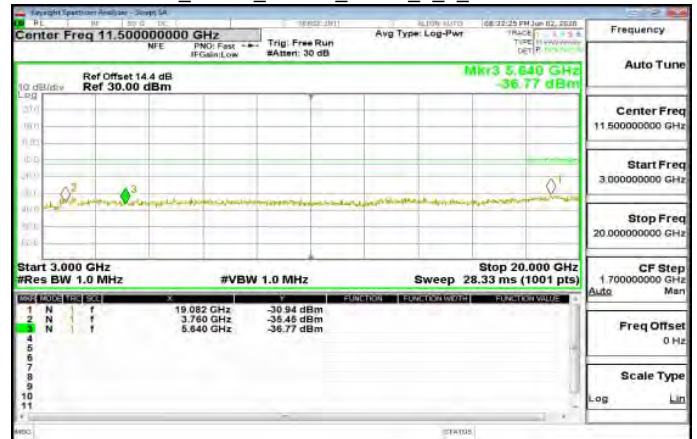
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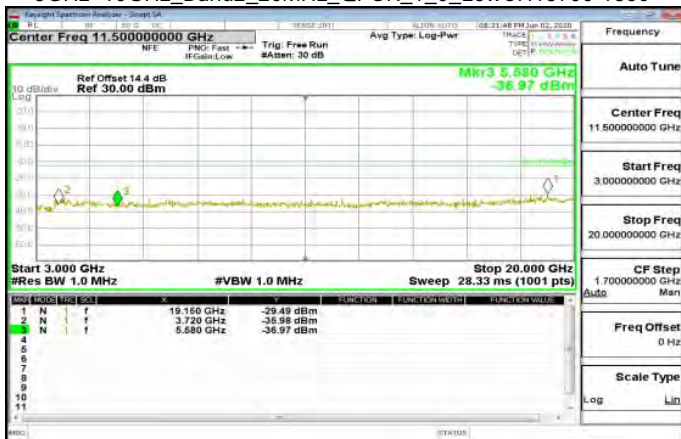
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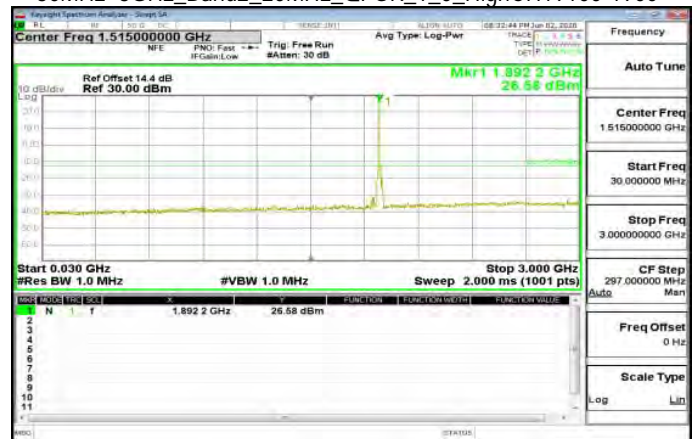
3GHz~10GHz\_Band2\_20MHz\_QPSK\_1\_0\_MidCH18900-1880



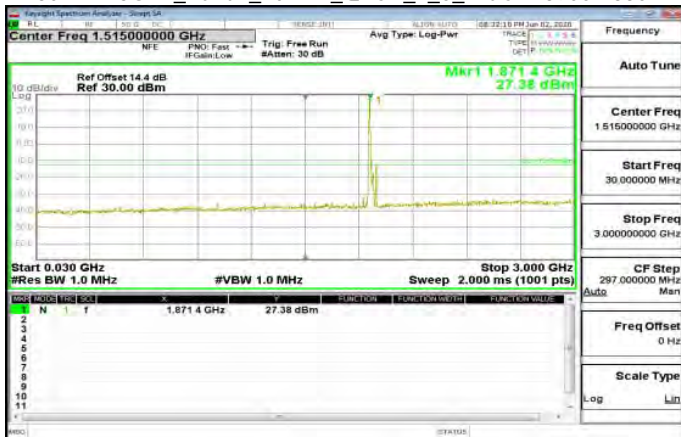
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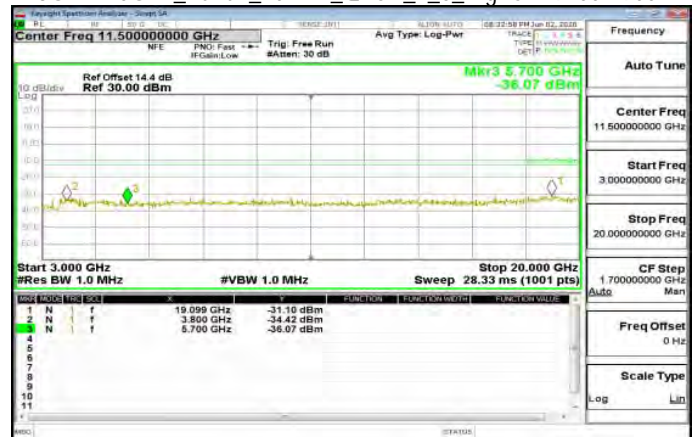
30MHz~3GHz\_Band2\_20MHz\_QPSK\_1\_0\_HighCH19100-1900



30MHz~3GHz\_Band2\_20MHz\_QPSK\_1\_0\_MidCH18900-1880



3GHz~10GHz\_Band2\_20MHz\_QPSK\_1\_0\_HighCH19100-1900

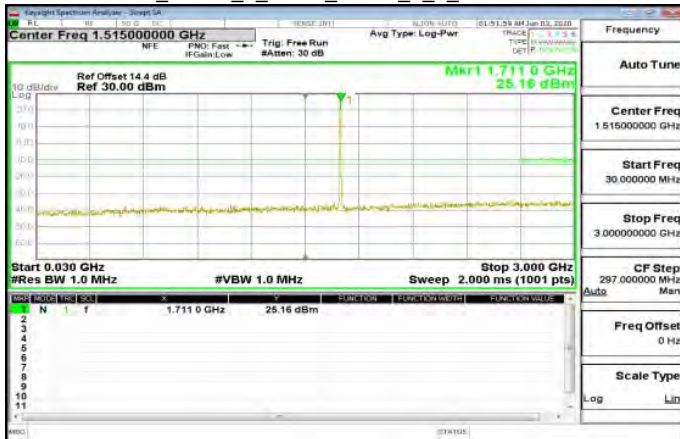


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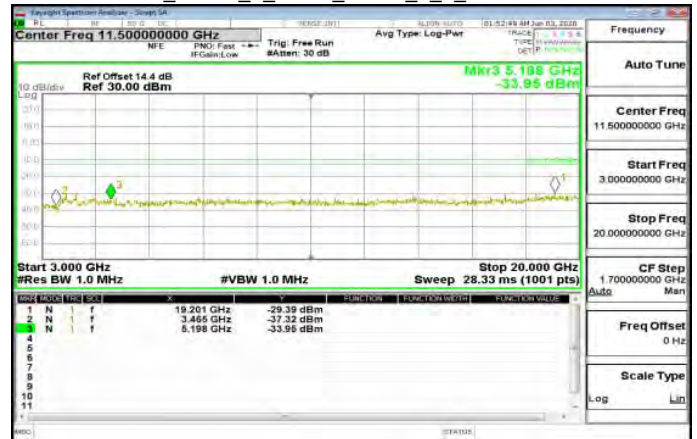
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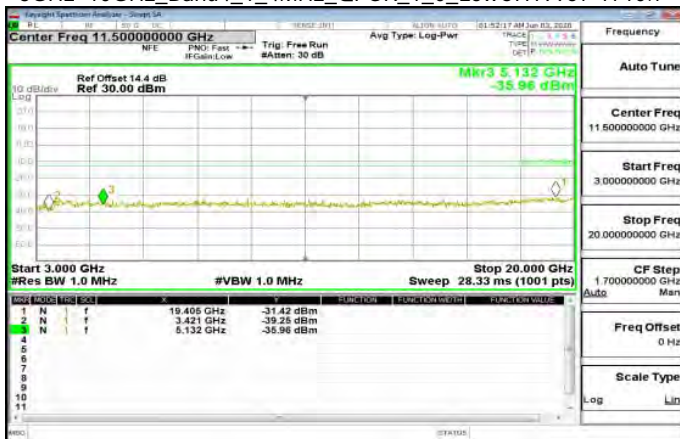
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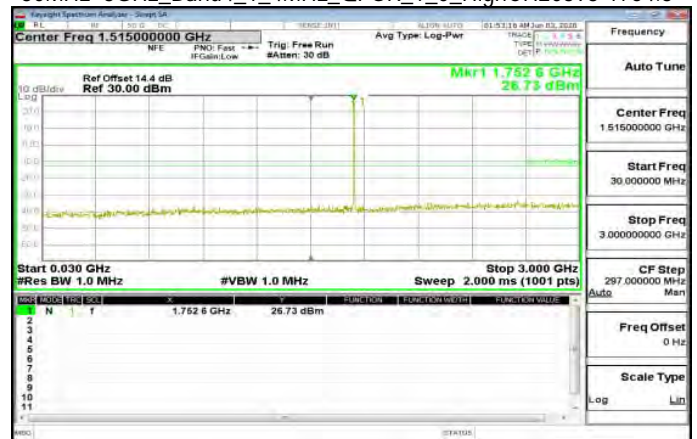
3GHz~10GHz\_Band4\_1\_4MHz\_QPSK\_1\_0\_MidCH20175-1732.5



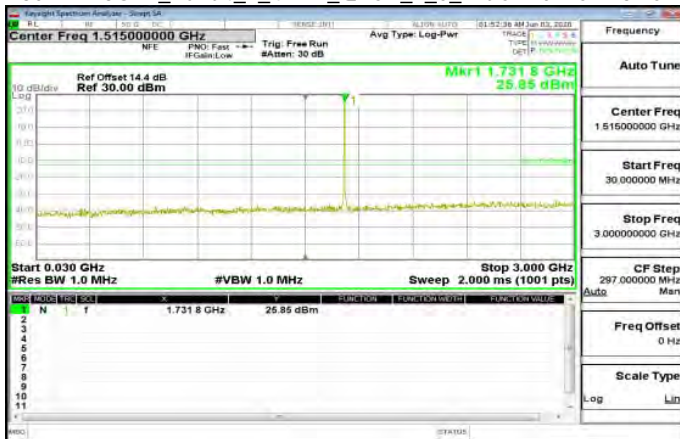
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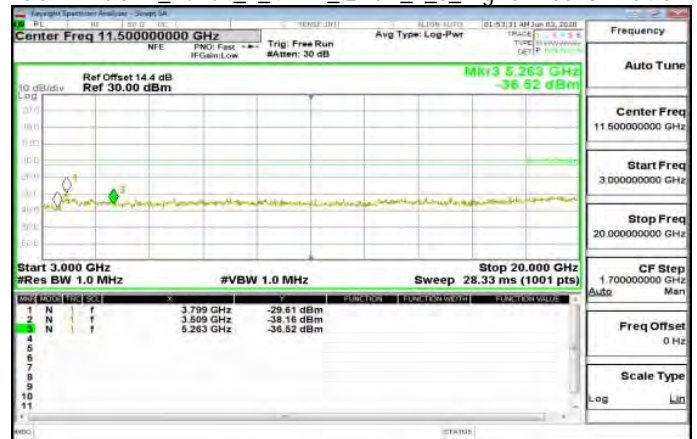
30MHz~3GHz\_Band4\_1\_4MHz\_QPSK\_1\_0\_HighCH20393-1754.3



30MHz~3GHz\_Band4\_1\_4MHz\_QPSK\_1\_0\_MidCH20175-1732.5



3GHz~10GHz\_Band4\_1\_4MHz\_QPSK\_1\_0\_HighCH20393-1754.3



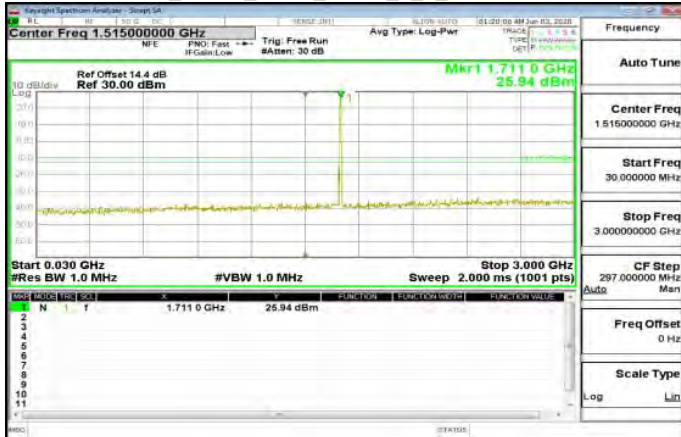
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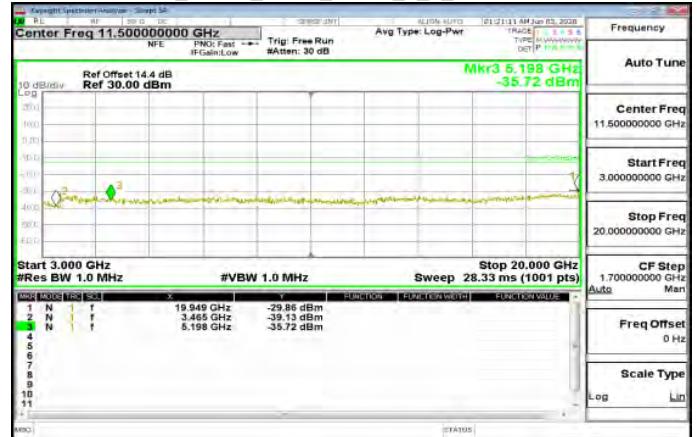
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30MHz~3GHz\_Band4\_3MHz\_QPSK\_1\_0\_LowCH19965-1711.5



3GHz~10GHz\_Band4\_3MHz\_QPSK\_1\_0\_MidCH20175-1732.5



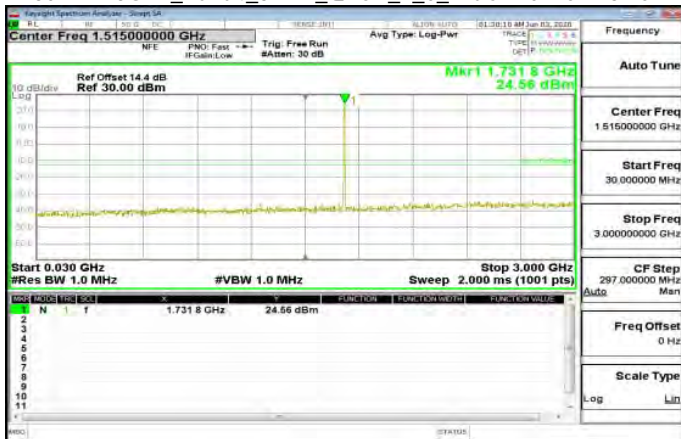
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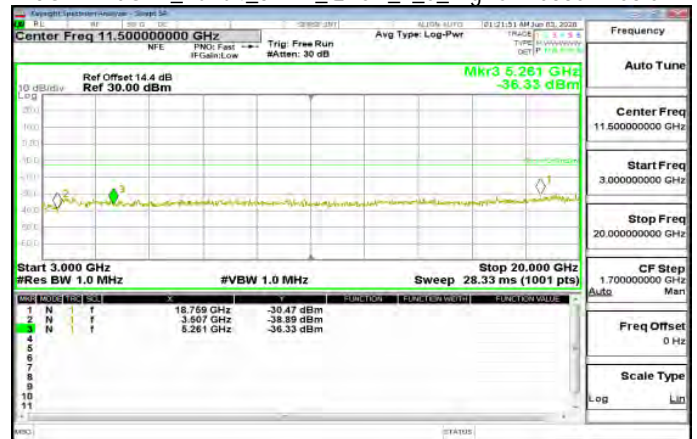
30MHz~3GHz\_Band4\_3MHz\_QPSK\_1\_0\_HighCH20385-1753.5



30MHz~3GHz\_Band4\_3MHz\_QPSK\_1\_0\_MidCH20175-1732.5



3GHz~10GHz\_Band4\_3MHz\_QPSK\_1\_0\_HighCH20385-1753.5

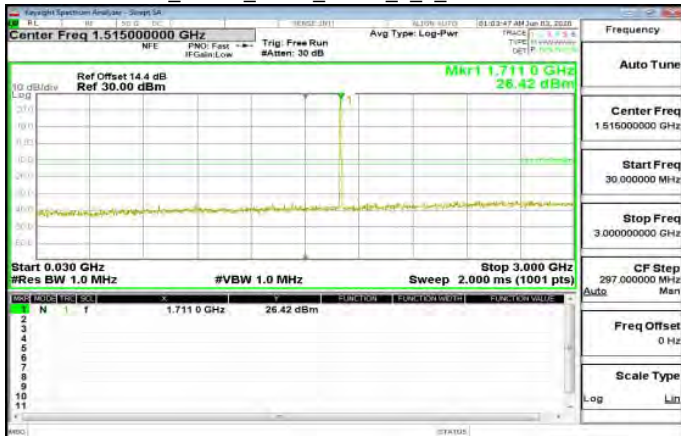


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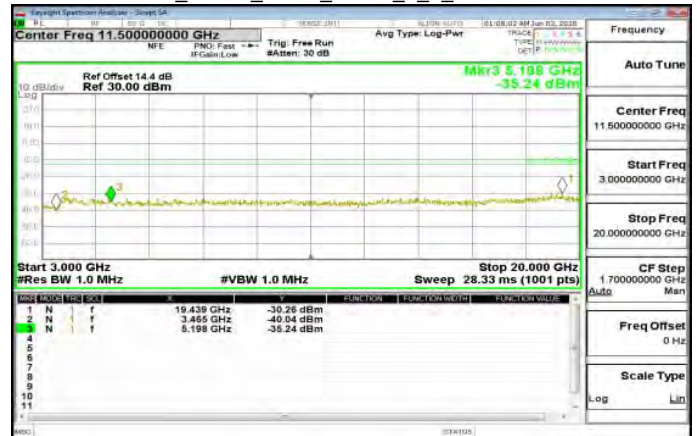
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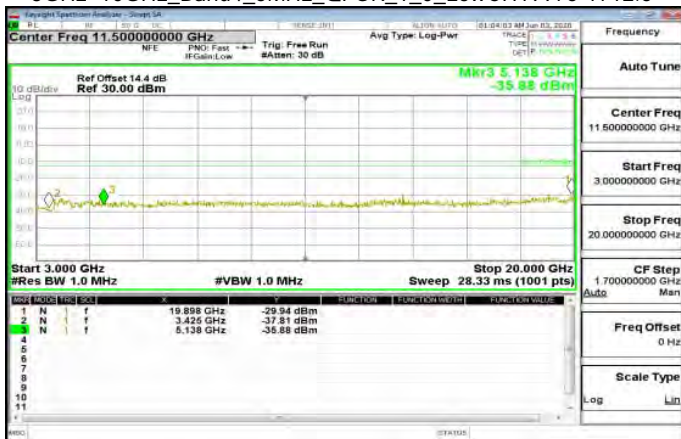
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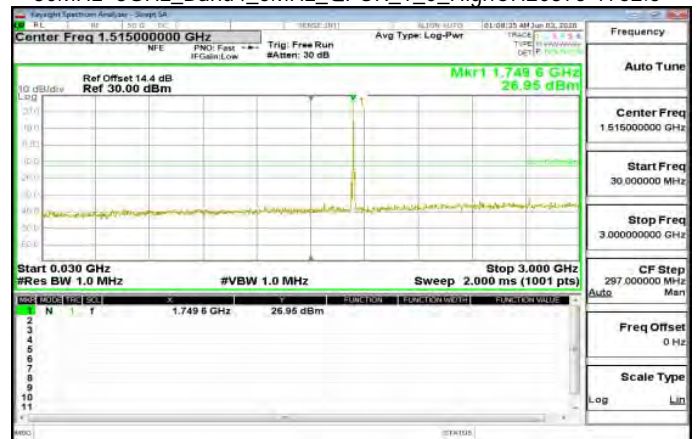
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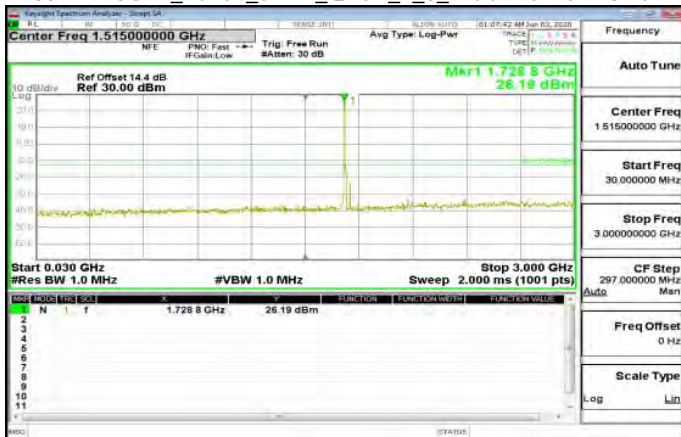
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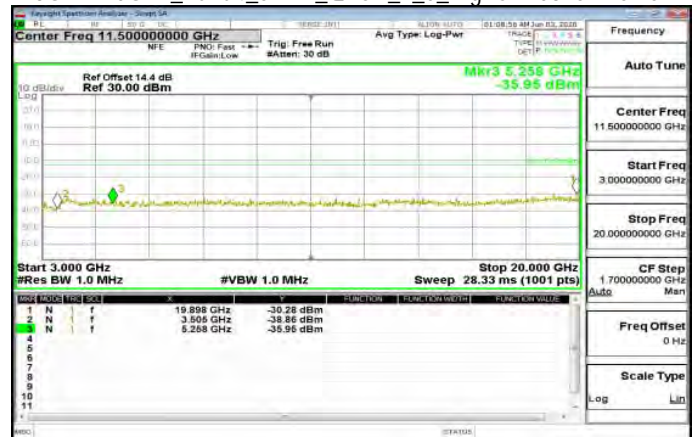
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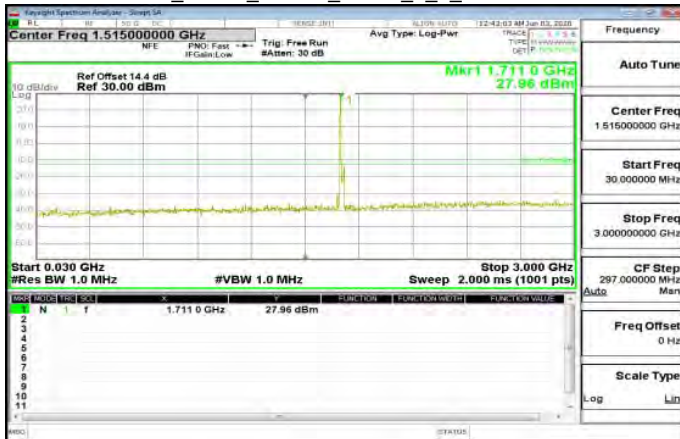
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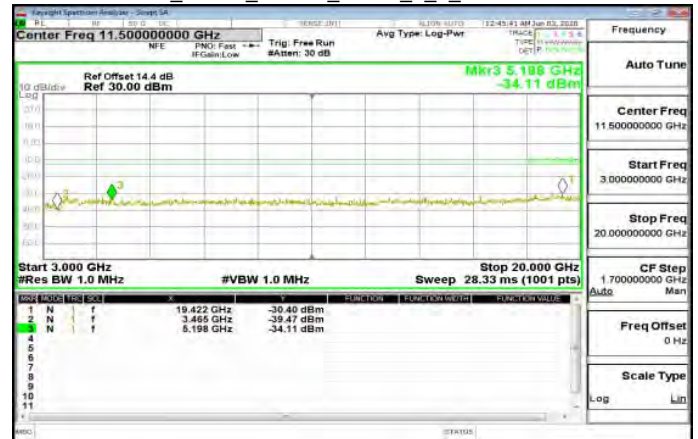
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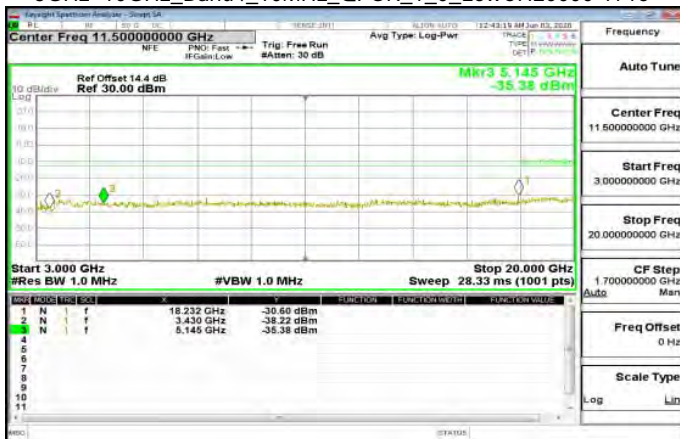
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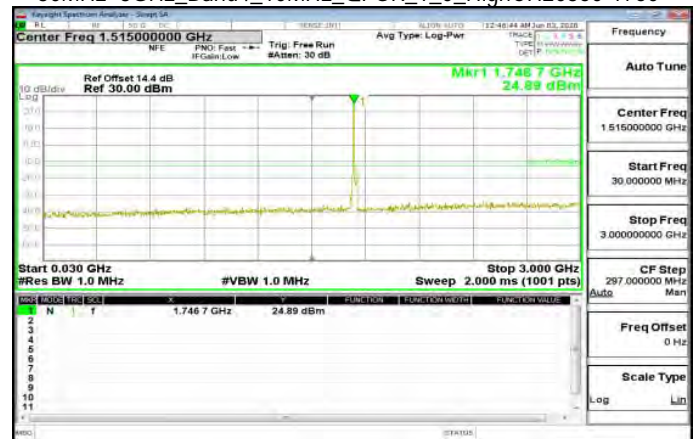
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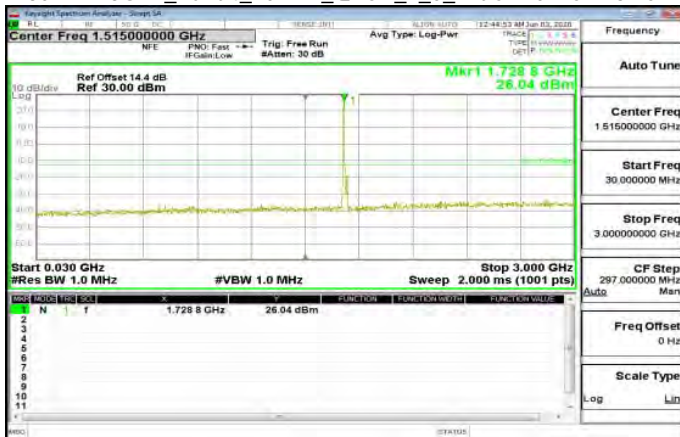
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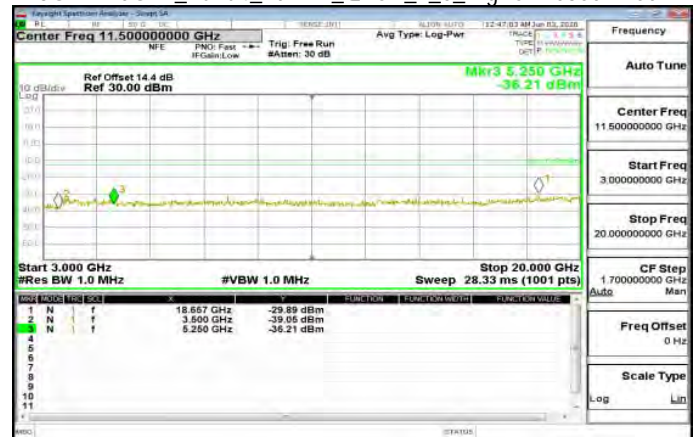
30MHz~3GHz\_Band4\_10MHz\_QPSK\_1\_0\_HighCH20350-1750



30MHz~3GHz\_Band4\_10MHz\_QPSK\_1\_0\_MidCH20175-1732.5



3GHz~10GHz\_Band4\_10MHz\_QPSK\_1\_0\_HighCH20350-1750



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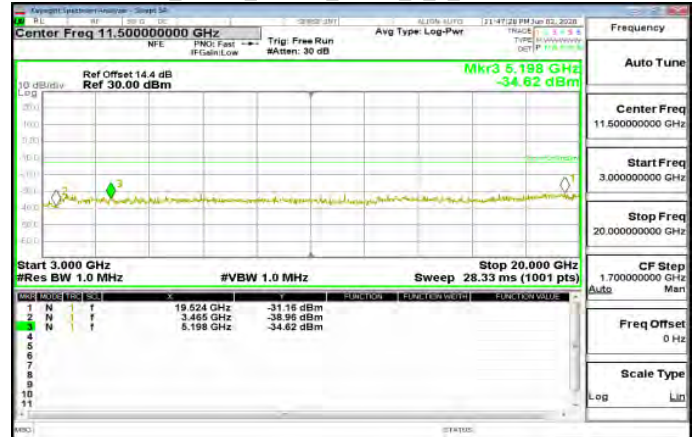
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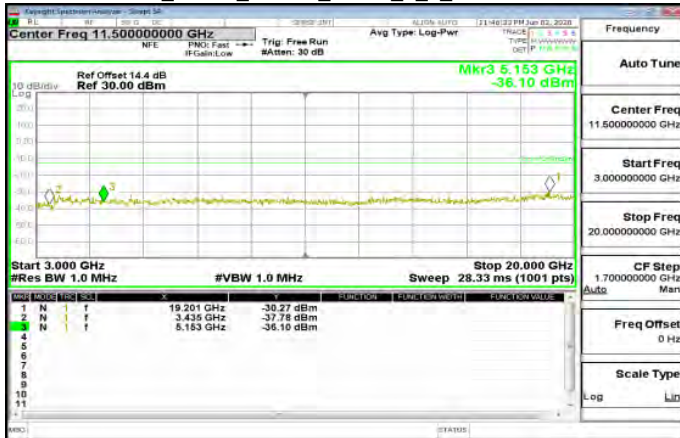
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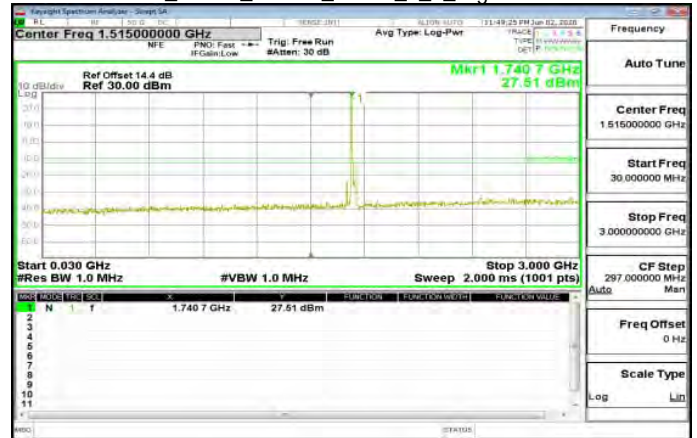
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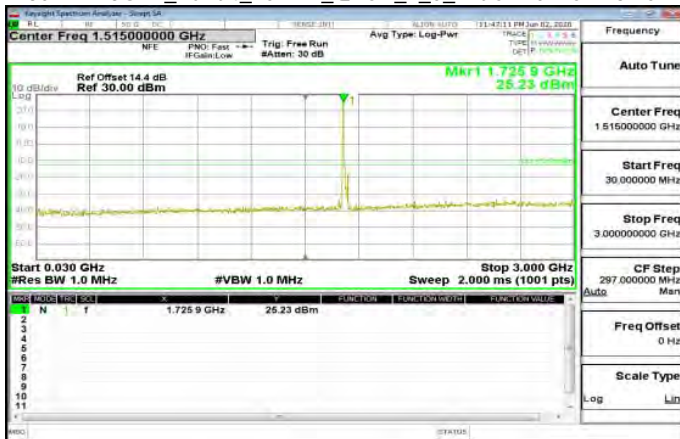
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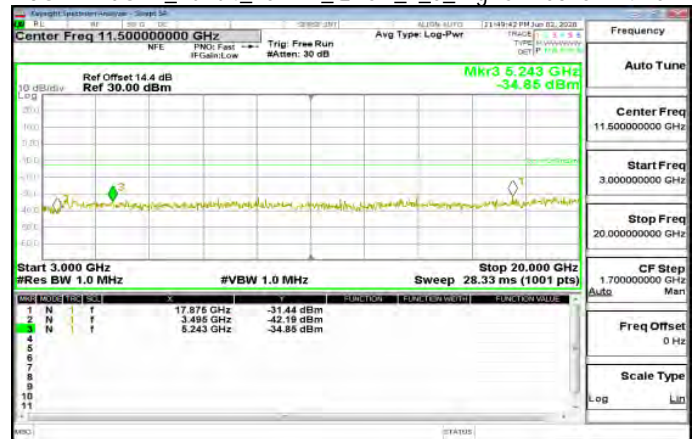
30MHz~3GHz\_Band4\_15MHz\_QPSK\_1\_0\_HighCH20325-1747.5



30MHz~3GHz\_Band4\_15MHz\_QPSK\_1\_0\_MidCH20175-1732.5



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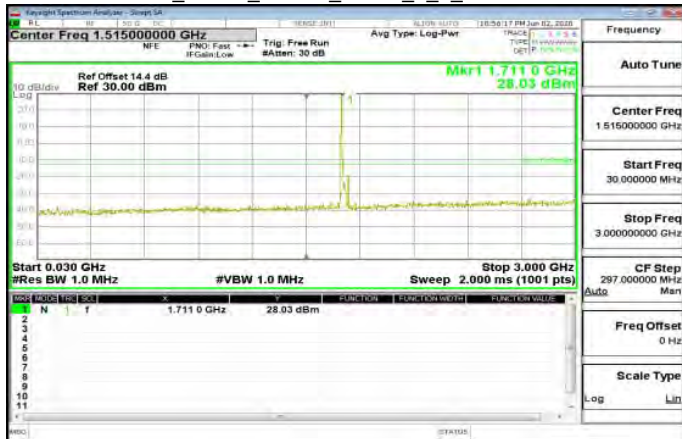
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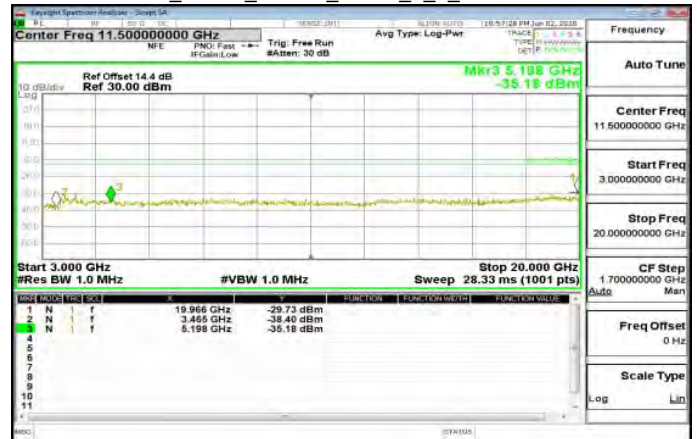
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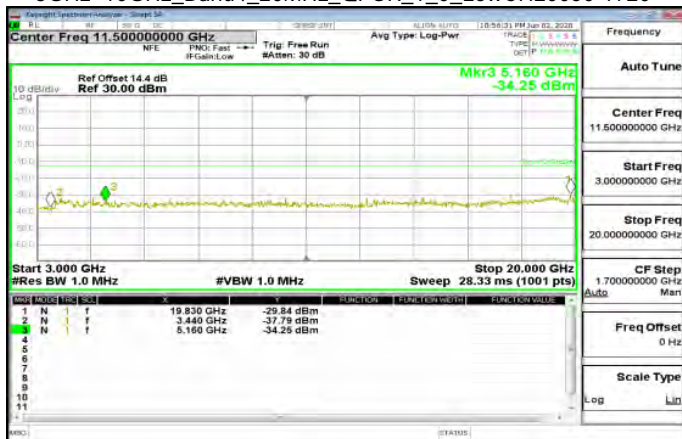
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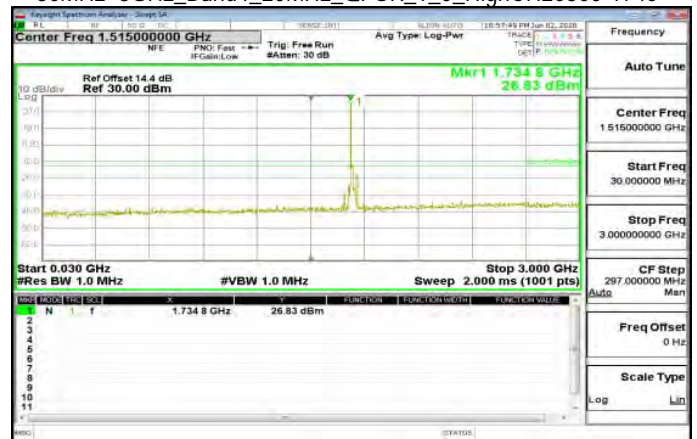
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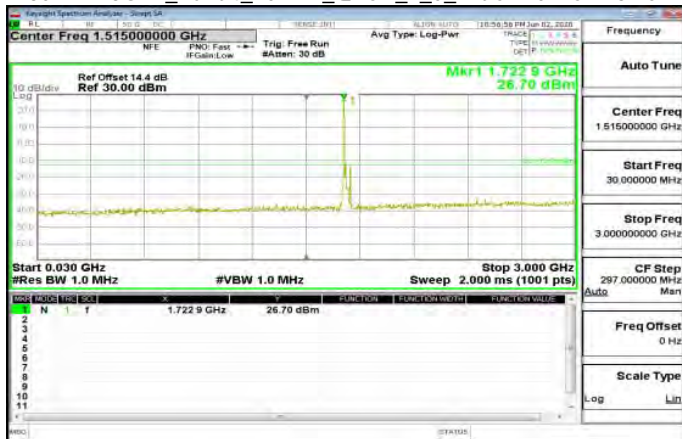
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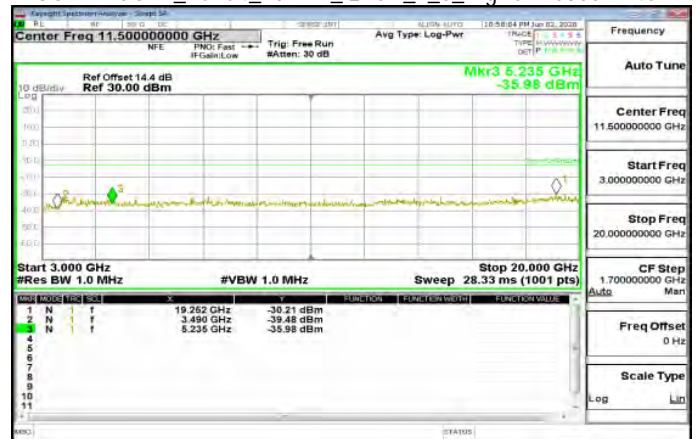
30MHz~3GHz\_Band4\_20MHz\_QPSK\_1\_0\_HighCH20300-1745



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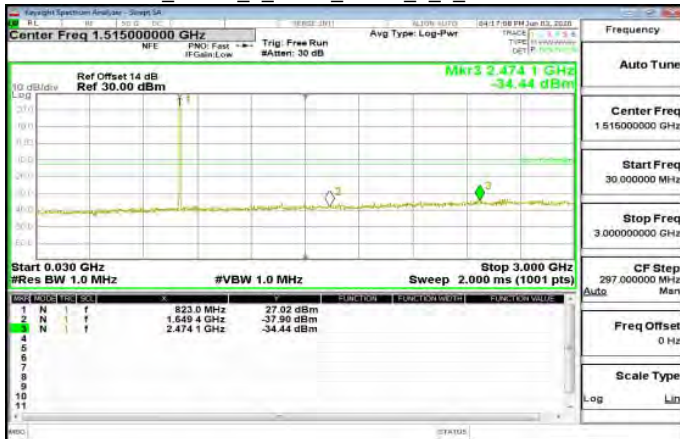


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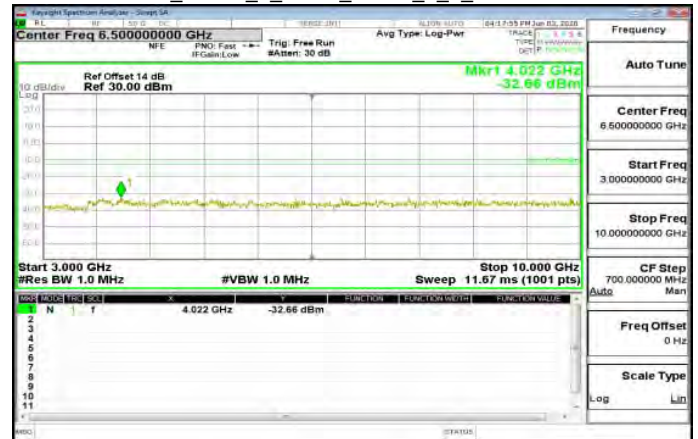
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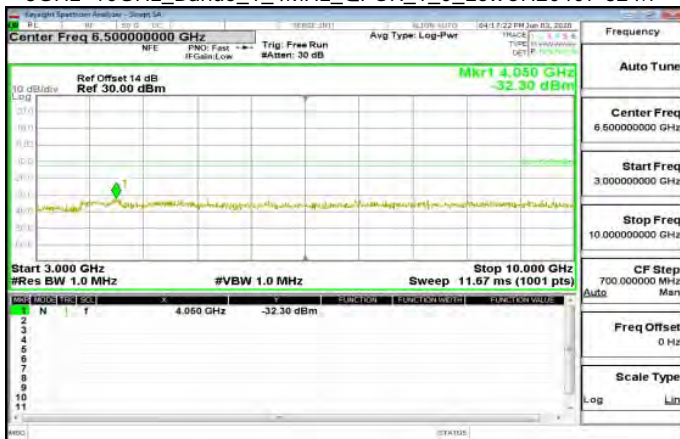
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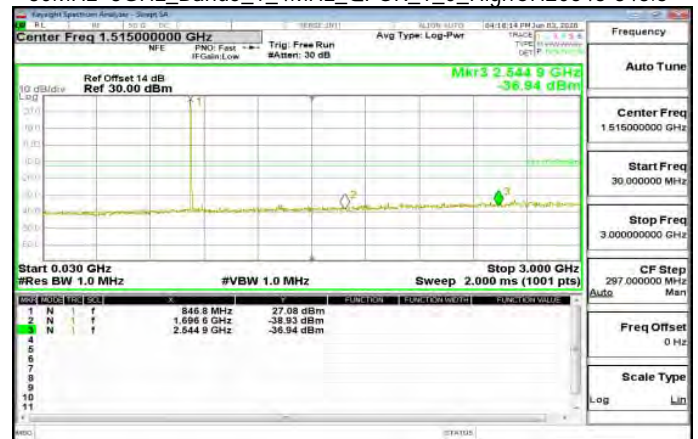
3GHz~10GHz\_Band5\_1\_4MHz\_QPSK\_1\_0\_MidCH20525-836.5



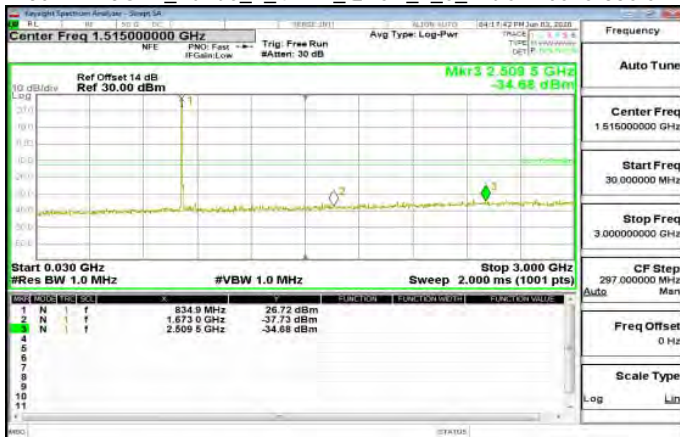
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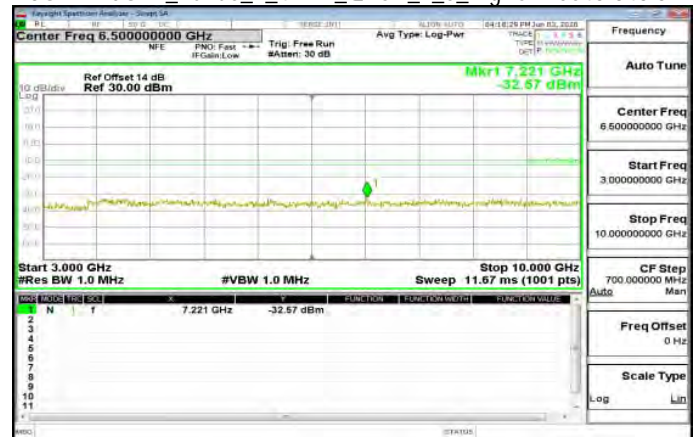
30MHz~3GHz\_Band5\_1\_4MHz\_QPSK\_1\_0\_HighCH20643-848.3



30MHz~3GHz\_Band5\_1\_4MHz\_QPSK\_1\_0\_MidCH20525-836.5



3GHz~10GHz\_Band5\_1\_4MHz\_QPSK\_1\_0\_HighCH20643-848.3



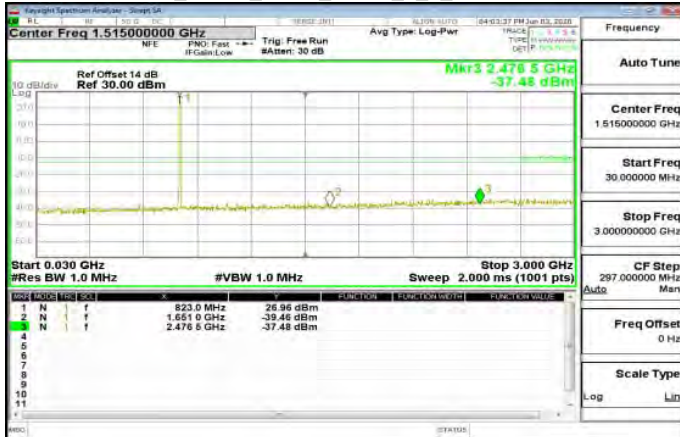
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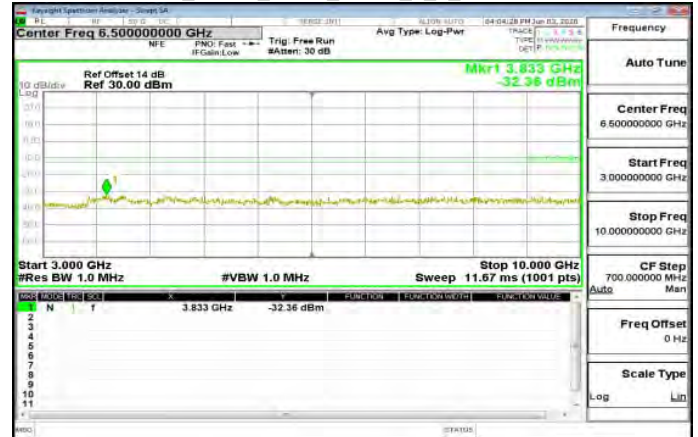
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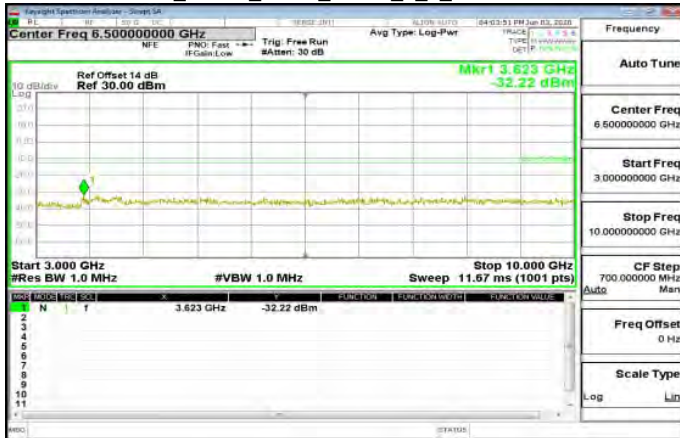
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3GHz~10GHz\_Band5\_3MHz\_QPSK\_1\_0\_MidCH20525-836.5



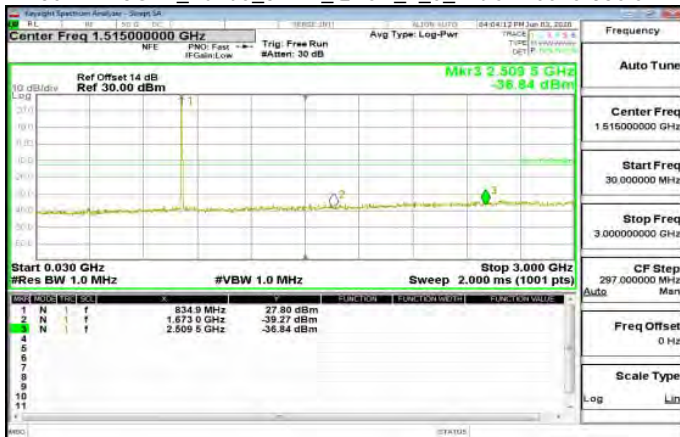
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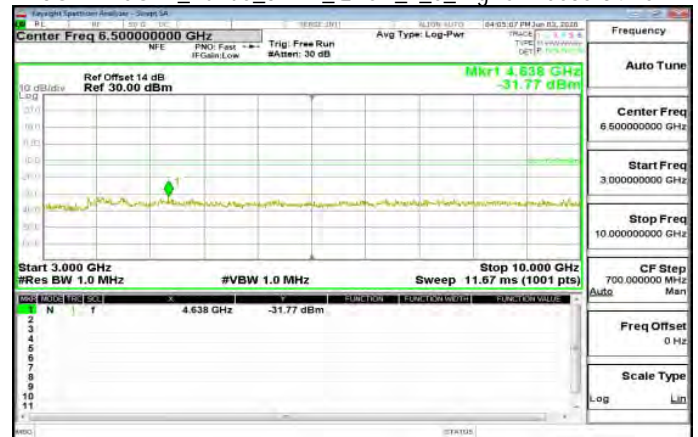
30MHz~3GHz\_Band5\_3MHz\_QPSK\_1\_0\_HighCH20635-847.5



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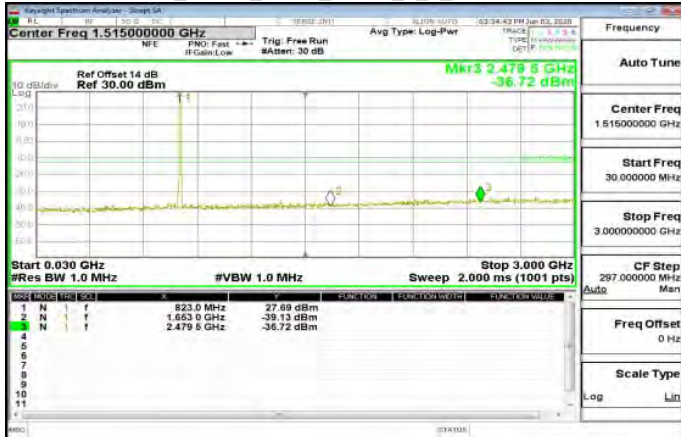


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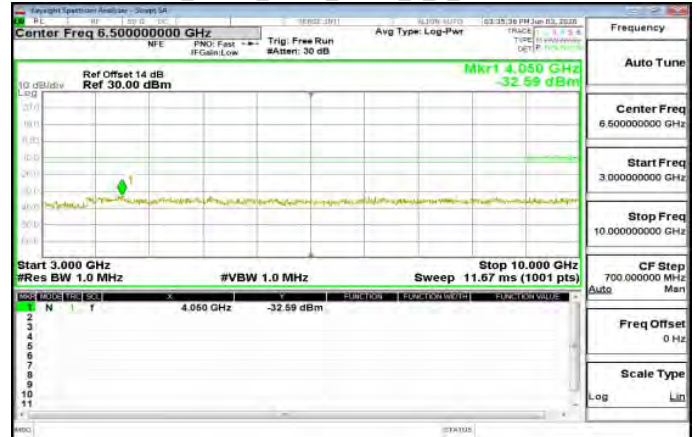
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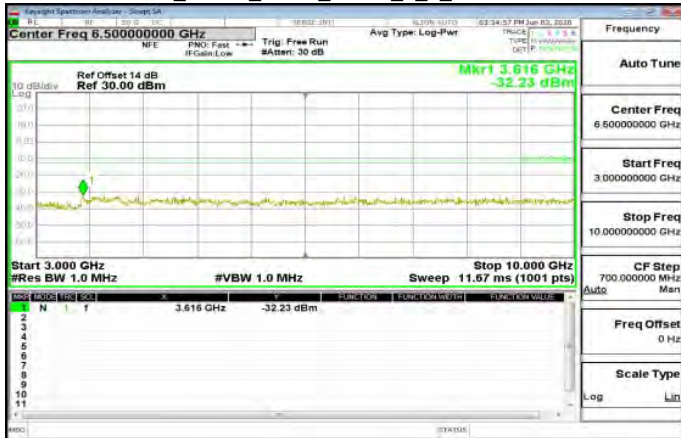
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3GHz~10GHz\_Band5\_5MHz\_QPSK\_1\_0\_MidCH20525-836.5



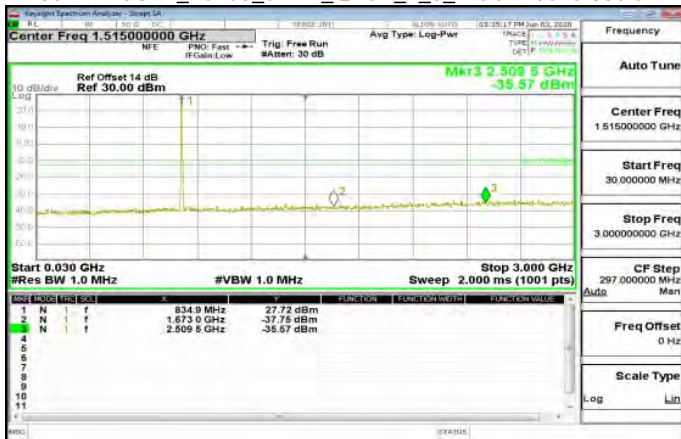
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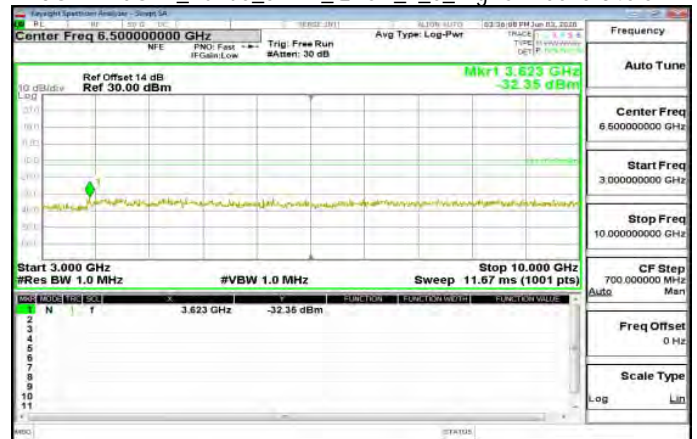
30MHz~3GHz\_Band5\_5MHz\_QPSK\_1\_0\_HighCH20625-846.5



30MHz~3GHz\_Band5\_5MHz\_QPSK\_1\_0\_MidCH20525-836.5



3GHz~10GHz\_Band5\_5MHz\_QPSK\_1\_0\_HighCH20625-846.5



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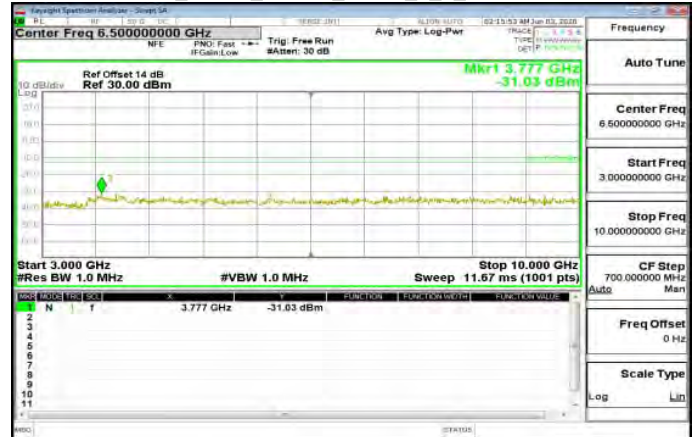
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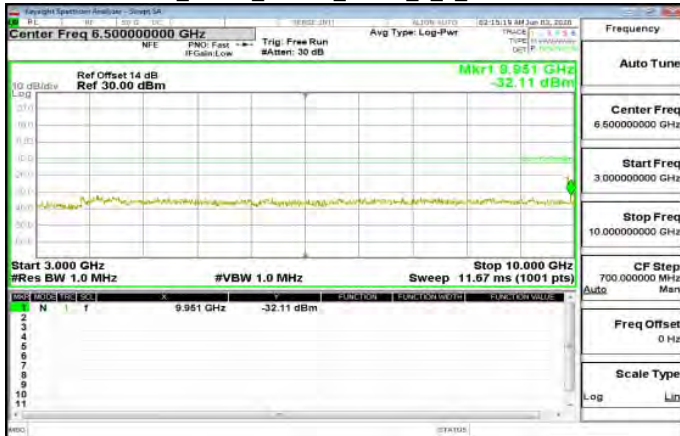
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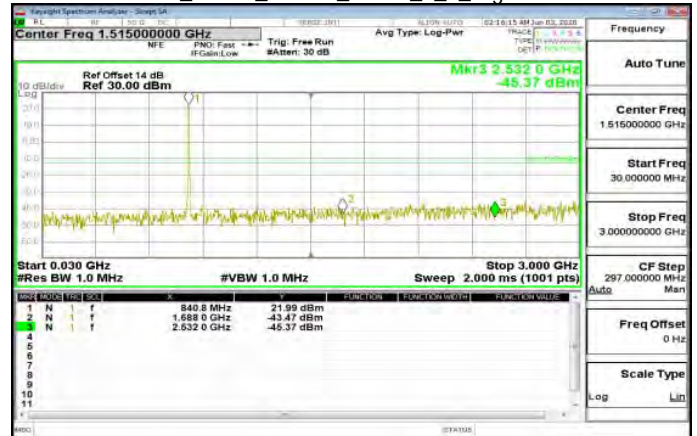
3GHz~10GHz\_Band5\_10MHz\_QPSK\_1\_0\_MidCH20525-836.5



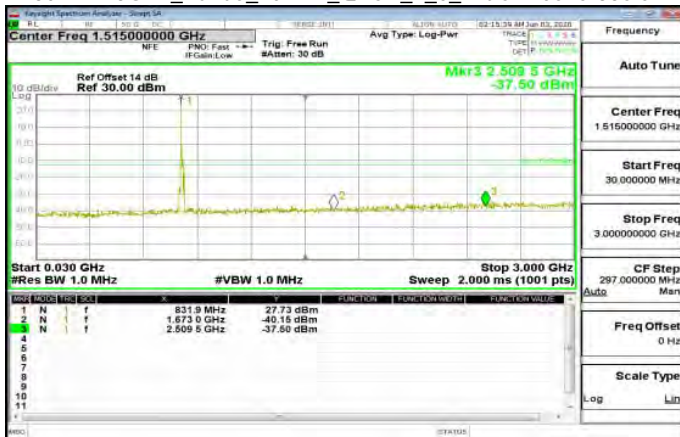
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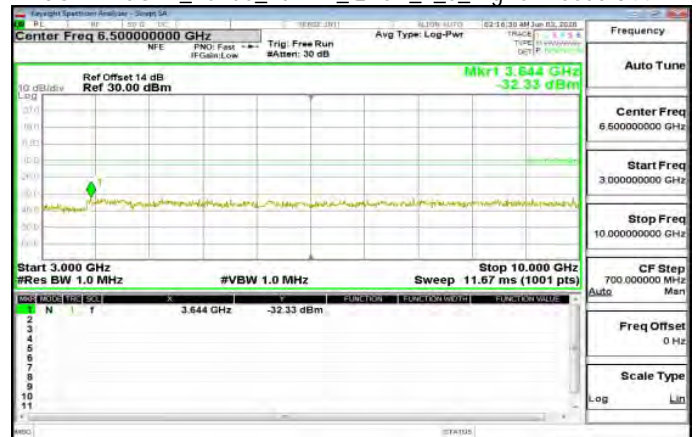
30MHz~3GHz\_Band5\_10MHz\_QPSK\_1\_0\_HighCH20600-844



30MHz~3GHz\_Band5\_10MHz\_QPSK\_1\_0\_MidCH20525-836.5



3GHz~10GHz\_Band5\_10MHz\_QPSK\_1\_0\_HighCH20600-844

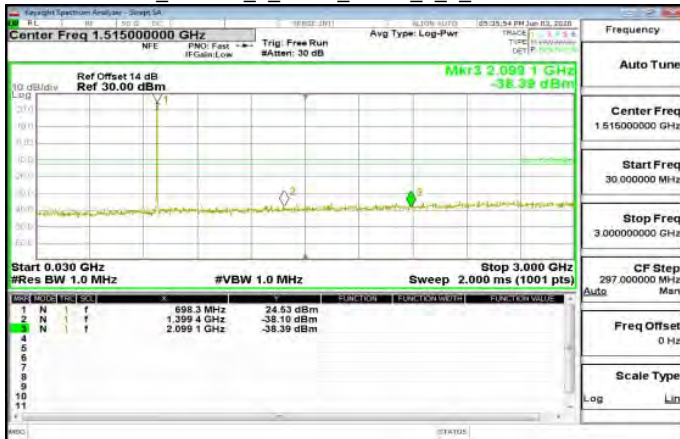


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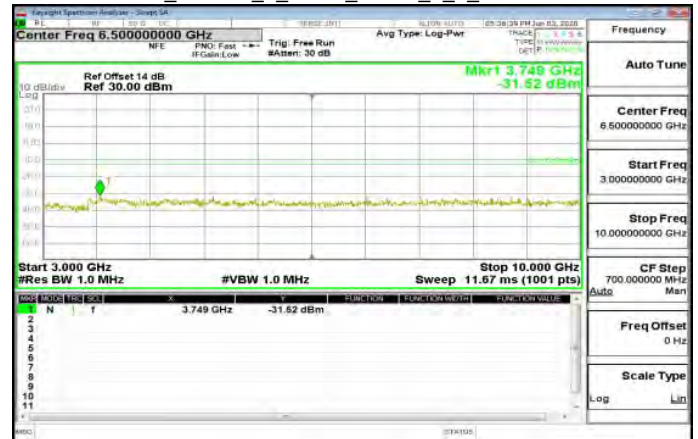
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30MHz~3GHz\_Band12\_1\_4MHz\_QPSK\_1\_0\_LowCH23017-699.7



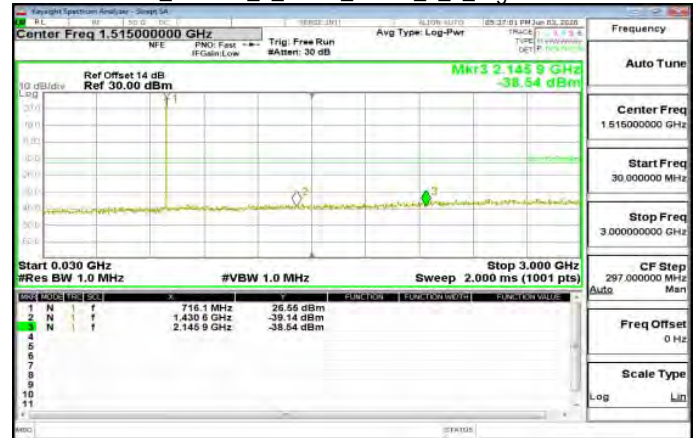
3GHz~10GHz\_Band12\_1\_4MHz\_QPSK\_1\_0\_MidCH23095-707.5



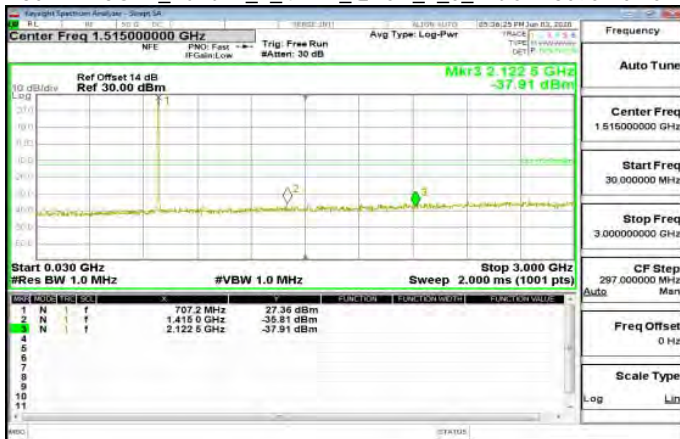
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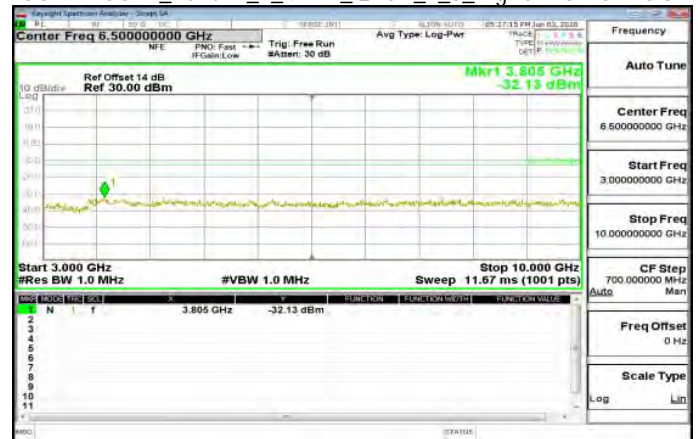
30MHz~3GHz\_Band12\_1\_4MHz\_QPSK\_1\_0\_HighCH23173-715.3



30MHz~3GHz\_Band12\_1\_4MHz\_QPSK\_1\_0\_MidCH23095-707.5



3GHz~10GHz\_Band12\_1\_4MHz\_QPSK\_1\_0\_HighCH23173-715.3



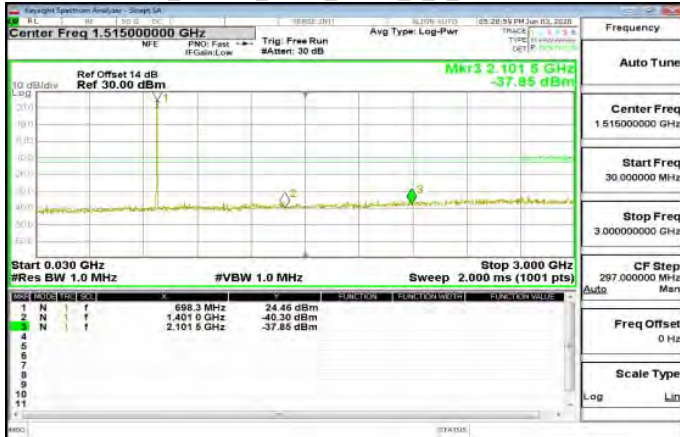
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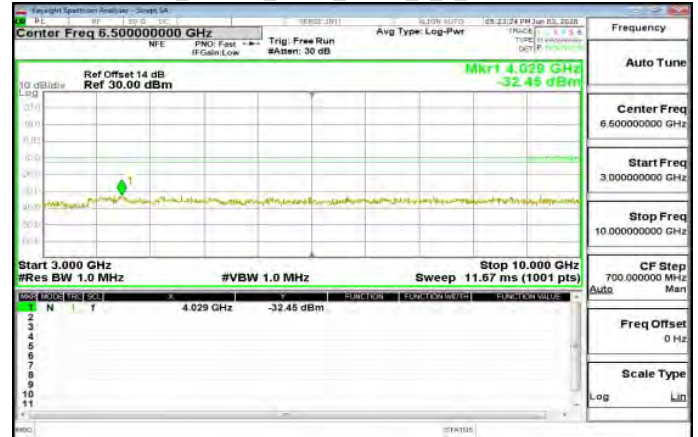
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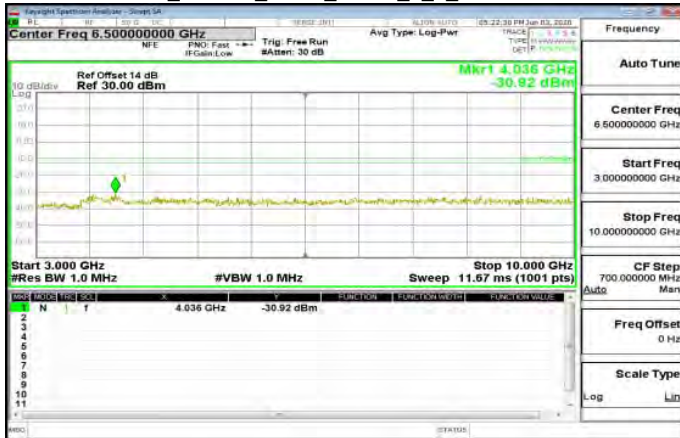
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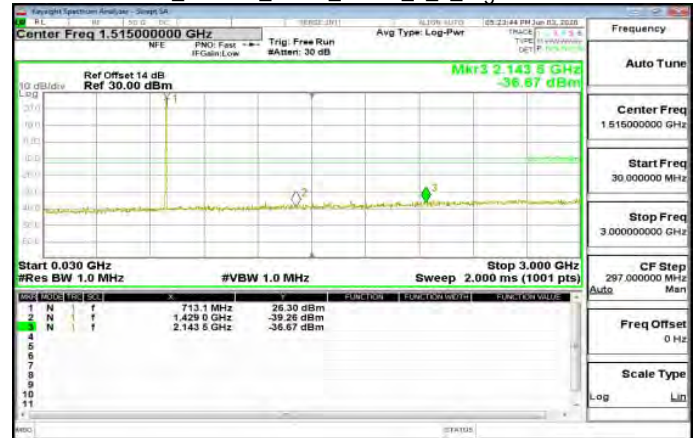
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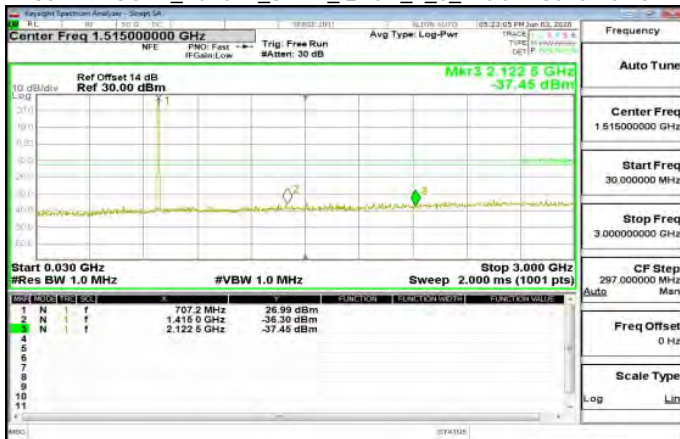
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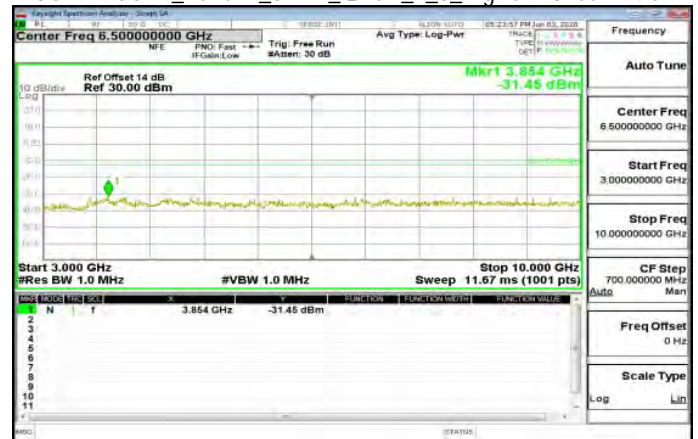
30MHz~3GHz\_Band12\_3MHz\_QPSK\_1\_0\_HighCH23165-714.5



30MHz~3GHz\_Band12\_3MHz\_QPSK\_1\_0\_MidCH23095-707.5



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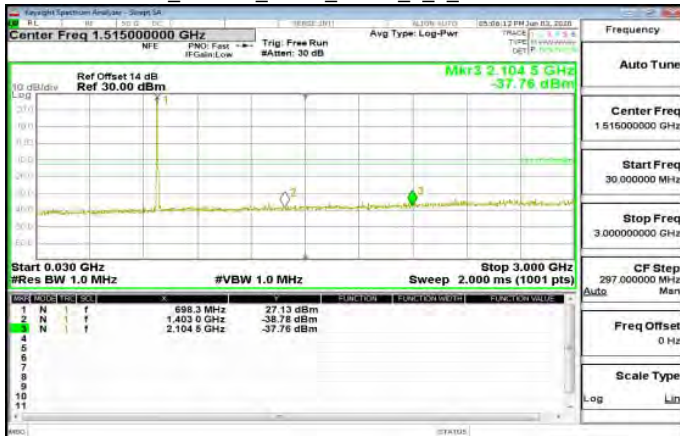


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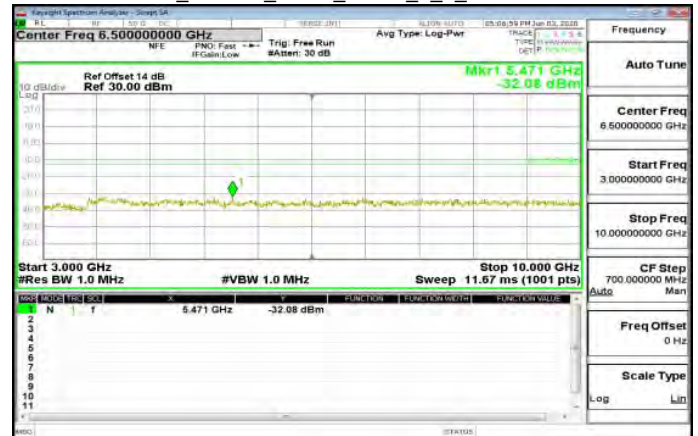
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30MHz~3GHz\_Band12\_5MHz\_QPSK\_1\_0\_LowCH23035-701.5



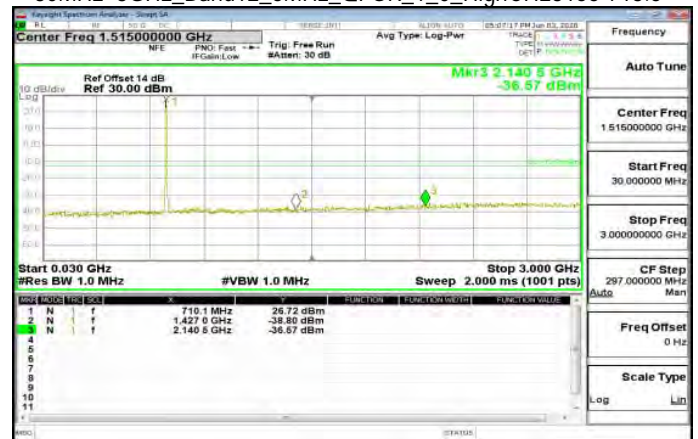
3GHz~10GHz\_Band12\_5MHz\_QPSK\_1\_0\_MidCH23095-707.5



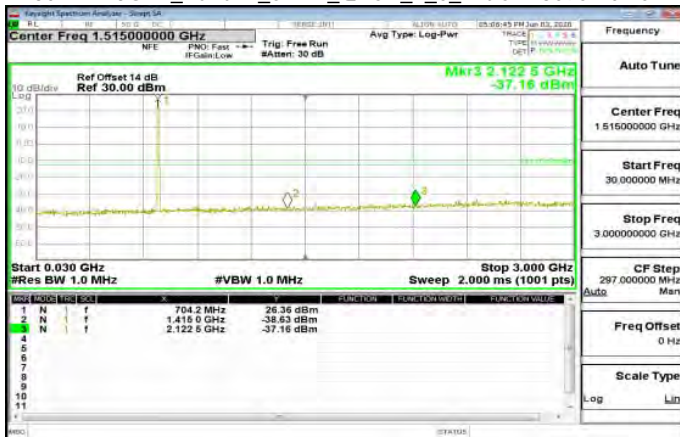
3GHz~10GHz\_Band12\_5MHz\_QPSK\_1\_0\_LowCH23035-701.5



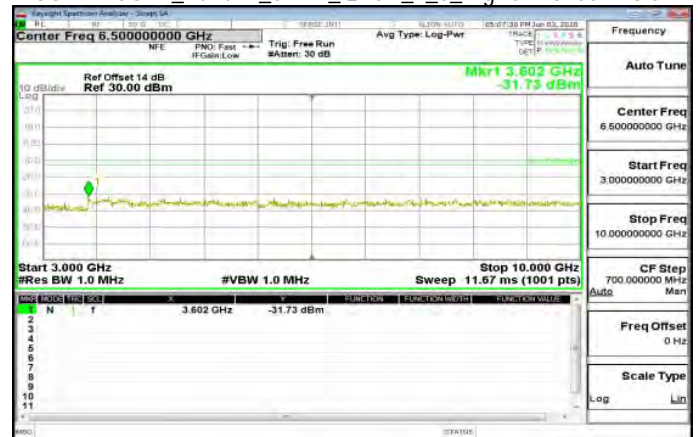
30MHz~3GHz\_Band12\_5MHz\_QPSK\_1\_0\_HighCH23155-713.5



30MHz~3GHz\_Band12\_5MHz\_QPSK\_1\_0\_MidCH23095-707.5



3GHz~10GHz\_Band12\_5MHz\_QPSK\_1\_0\_HighCH23155-713.5



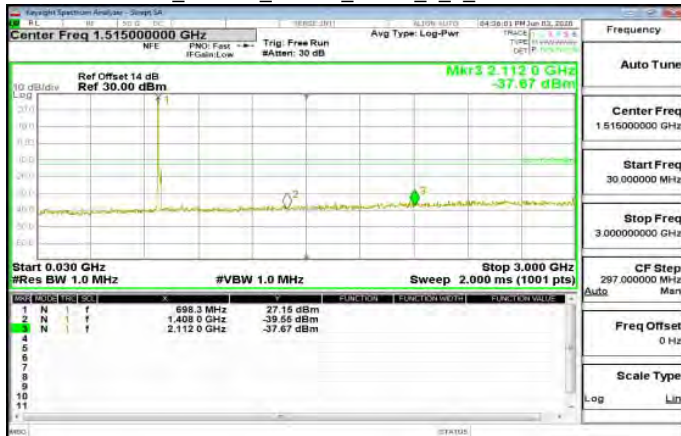
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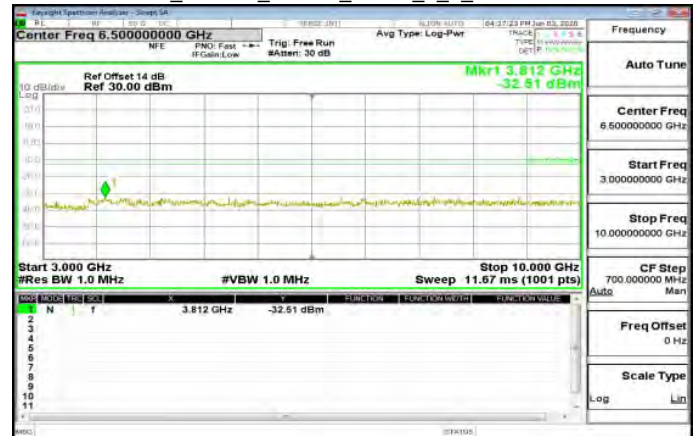
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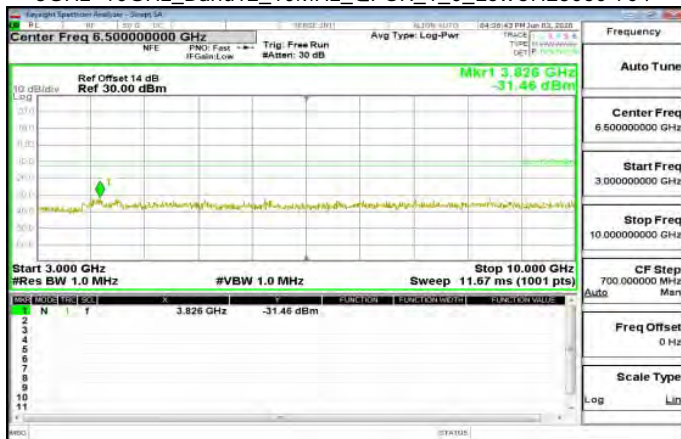
30MHz~3GHz\_Band12\_10MHz\_QPSK\_1\_0\_LowCH23060-704



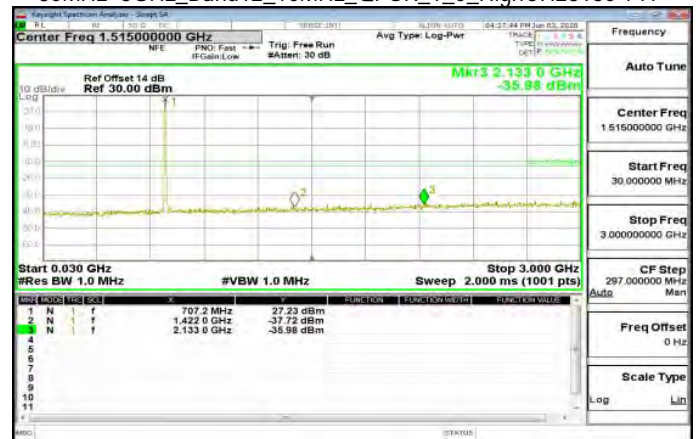
3GHz~10GHz\_Band12\_10MHz\_QPSK\_1\_0\_MidCH23095-707.5



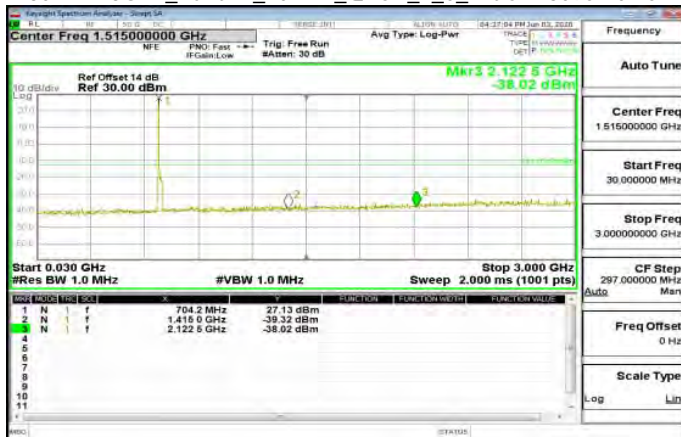
3GHz~10GHz\_Band12\_10MHz\_QPSK\_1\_0\_LowCH23060-704



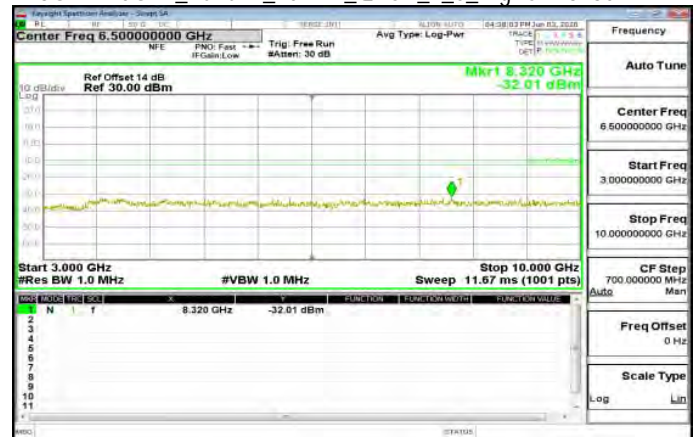
30MHz~3GHz\_Band12\_10MHz\_QPSK\_1\_0\_HighCH23130-711



30MHz~3GHz\_Band12\_10MHz\_QPSK\_1\_0\_MidCH23095-707.5



3GHz~10GHz\_Band12\_10MHz\_QPSK\_1\_0\_HighCH23130-711



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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)**

Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB.

**FCC §27.53(c) (5) & FCC §27.53(g) for LTE B12**

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

**FCC §27.53(h)(3) for LTE B4**

Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

**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	$43 + 10 \log_{10}(p)$ <sup>Note</sup>
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	$43 + 10 \log_{10}(p)$ <sup>Note</sup>
2360 - 2365	$43 + 10 \log_{10}(p)$
2365 - 2395	$70 + 10 \log_{10}(p)$
>2395	$43 + 10 \log_{10}(p)$

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

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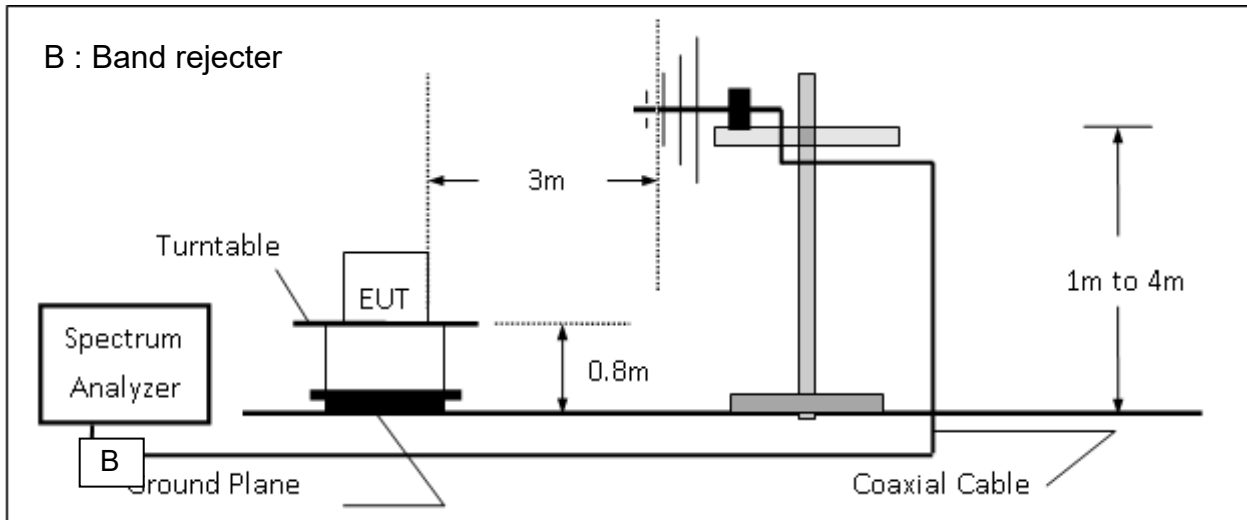
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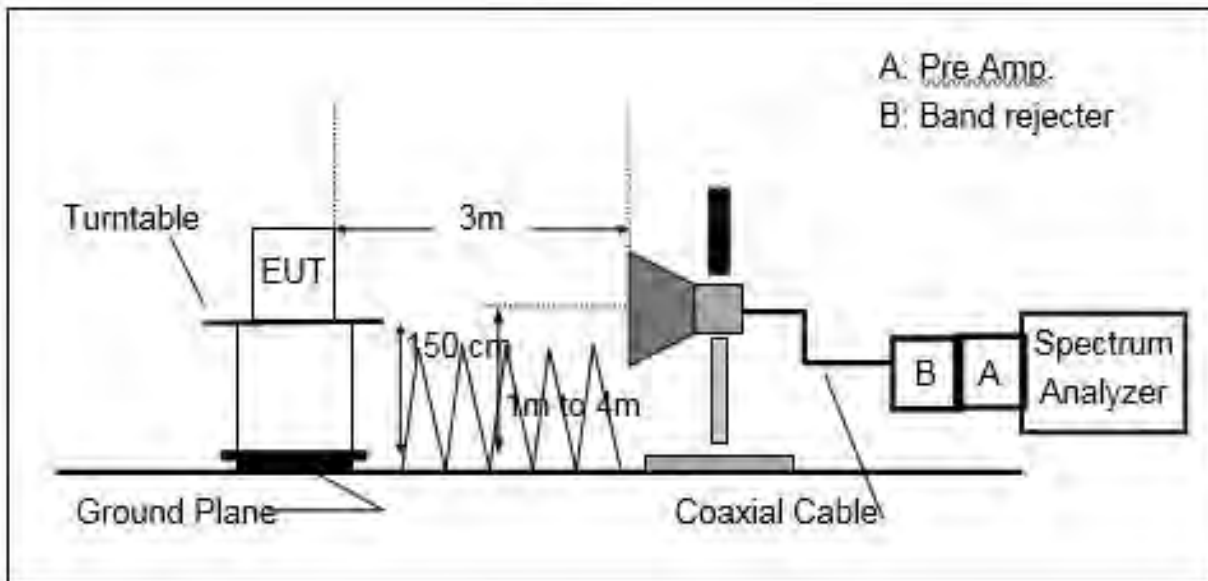


## 9.2 EUT Setup

### 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.
Bi-log Antenna	SCHWAZBECK	VULB9168	378	01/03/2020	01/02/2021
Horn Antenna	Schwarzbeck	BBHA9120D	1441	08/20/2019	08/19/2020
Horn Antenna	Schwarzbeck	BBHA9170	184	12/25/2019	12/24/2020
Horn Antenna	Schwarzbeck	BBHA9170	185	08/07/2019	08/06/2020
Horn Antenna	Schwarzbeck	BBHA9120D	D803	12/20/2019	12/19/2020
Bi-log Antenna	TESEO	CBL 6112D	35242 & AT-N0555	01/13/2020	01/12/2021
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/22/2019	04/21/2020
Signal Generator	Agilent	N5183A	MY50140591	12/20/2019	12/19/2020
Pre-Amplifier	HP	8449B	3008A00578	01/02/2020	01/01/2021
Pre-Amplifier	HP	8447D	2944A07676	01/02/2020	01/01/2021
Pre-Amplifier	EMC Instruments	EMC184045B	980135	01/02/2020	01/01/2021
Filter 635-920	Micro-Tronics	WI	4	01/02/2020	01/01/2021
Filter 800-1000	Micro-Tronics	EWT	M1	01/02/2020	01/01/2021
Filter 1700-2000	Micro-Tronics	EWT	M3	01/02/2020	01/01/2021
1GHz High Pass Filter	Micro-Tronics	HPM50108	32	01/02/2020	01/01/2021
2GHz High Pass Filter	Micro-Tronics	HPM50110	36	01/02/2020	01/01/2021
Low Loss Cable	Huber Suhner	966_RX	9	01/02/2020	01/01/2021
Low Loss Cable	Huber Suhner	966_TX	1	01/02/2020	01/01/2021
Radio Communication Analyzer	Anritsu	MT8820C	6200995019	04/01/2020	03/31/2021
Radio Communication Analyzer	Anritsu	MT8815B	6200711454	04/01/2020	03/31/2021

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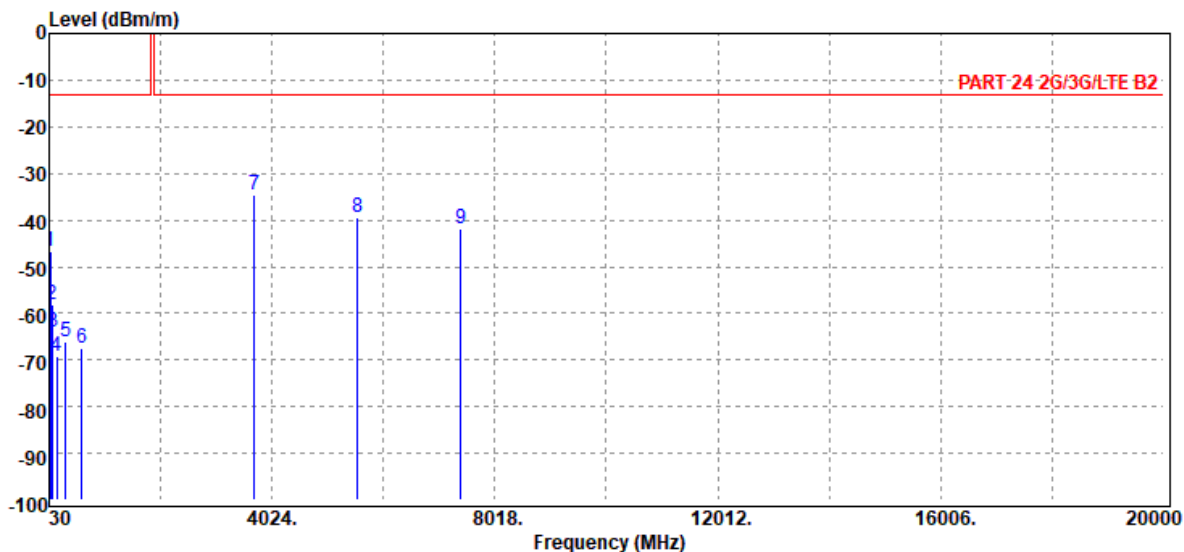
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## 9.5 Measurement Result:

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

Report Number	:ER-2020-50029	Test Date	:2020-05-27
Operation Mode	:WCDMA B2	Temp./Humi.	:24.6/66
Test Mode	:Tx CH Low	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer	:Nick
Test Frequency	:1852.4 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
47.46	-46.77	-32.15	-14.02	-0.60	-13.00	-33.77
77.53	-58.05	-50.67	-6.54	-0.84	-13.00	-45.05
100.81	-63.90	-54.71	-8.24	-0.95	-13.00	-50.90
167.74	-69.04	-64.92	-2.86	-1.26	-13.00	-56.04
323.91	-66.07	-63.20	-1.20	-1.67	-13.00	-53.07
610.06	-67.32	-64.74	-0.62	-1.96	-13.00	-54.32
3704.80	-34.44	-40.99	12.40	-5.85	-13.00	-21.44
5557.20	-39.31	-45.20	13.19	-7.30	-13.00	-26.31
7409.60	-42.03	-44.50	10.88	-8.41	-13.00	-29.03

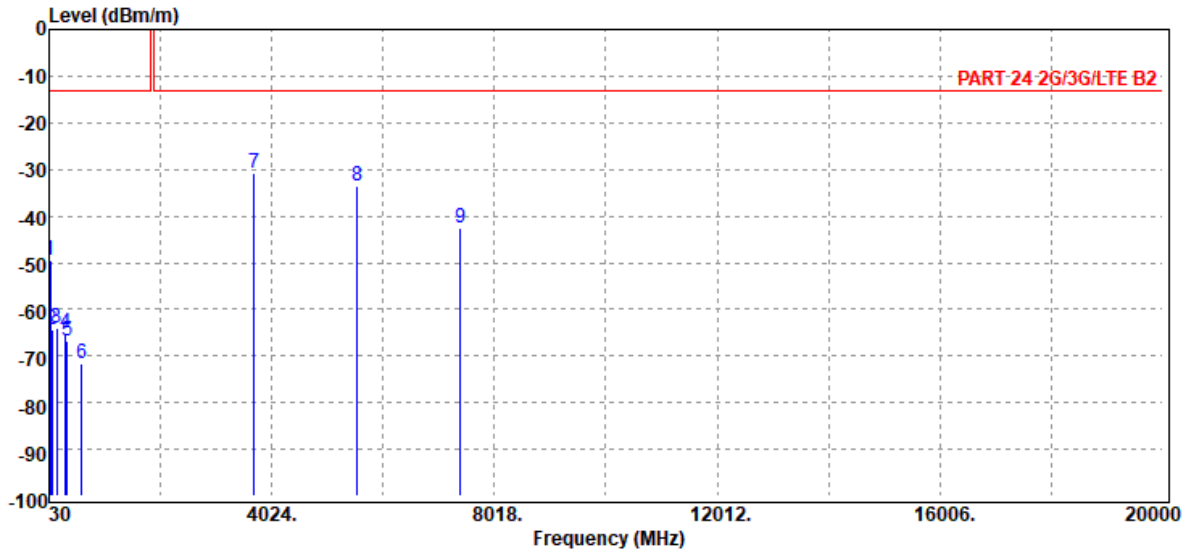
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Report Number :ER-2020-50029  
Operation Mode :WCDMA B2  
Test Mode :Tx CH Low  
EUT Pol :H Plane  
Test Frequency :1852.4 MHz

Test Date :2020-05-27  
Temp./Humi. :24.6/66  
Antenna Pol. :HORIZONTAL  
Engineer :Nick


Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
47.46	-49.48	-34.86	-14.02	-0.60	-13.00	-36.48
86.26	-64.40	-56.86	-6.66	-0.88	-13.00	-51.40
173.56	-64.11	-60.62	-2.24	-1.25	-13.00	-51.11
323.91	-65.05	-62.18	-1.20	-1.67	-13.00	-52.05
354.95	-66.87	-63.48	-1.62	-1.77	-13.00	-53.87
610.06	-71.56	-68.98	-0.62	-1.96	-13.00	-58.56
3704.80	-30.81	-37.36	12.40	-5.85	-13.00	-17.81
5557.20	-33.47	-39.36	13.19	-7.30	-13.00	-20.47
7409.60	-42.70	-45.17	10.88	-8.41	-13.00	-29.70

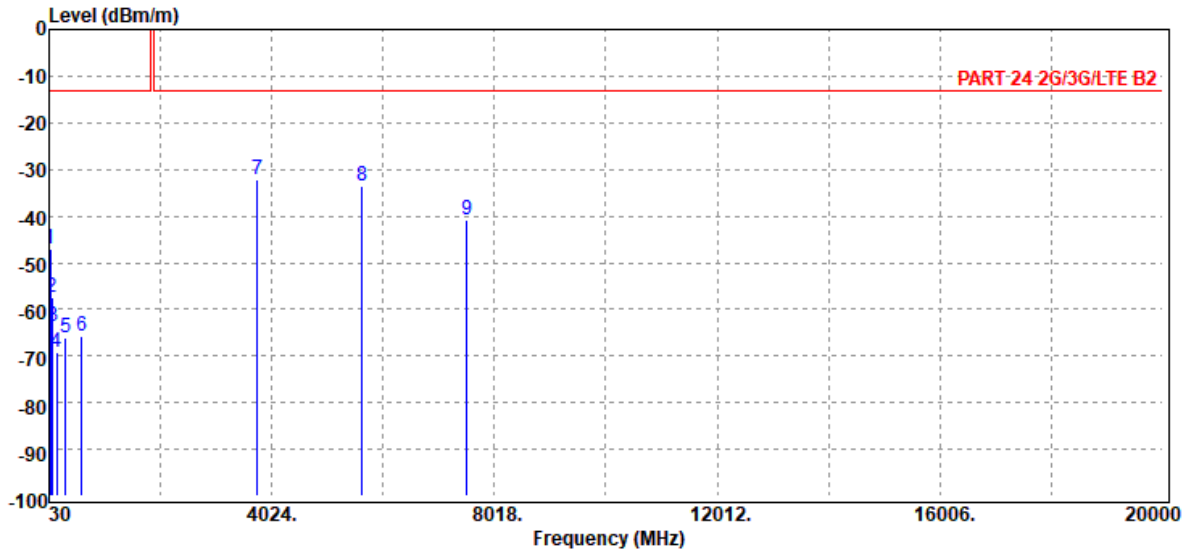
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Report Number :ER-2020-50029  
Operation Mode :WCDMA B2  
Test Mode :Tx CH Mid  
EUT Pol :H Plane  
Test Frequency :1880.0 MHz

Test Date :2020-05-27  
Temp./Humi. :24.6/66  
Antenna Pol. :VERTICAL  
Engineer :Nick



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
47.46	-47.01	-32.39	-14.02	-0.60	-13.00	-34.01
78.50	-57.31	-49.89	-6.58	-0.84	-13.00	-44.31
100.81	-63.63	-54.44	-8.24	-0.95	-13.00	-50.63
167.74	-69.19	-65.07	-2.86	-1.26	-13.00	-56.19
323.91	-66.05	-63.18	-1.20	-1.67	-13.00	-53.05
610.06	-65.69	-63.11	-0.62	-1.96	-13.00	-52.69
3760.00	-32.33	-38.99	12.40	-5.74	-13.00	-19.33
5640.00	-33.53	-39.56	13.26	-7.23	-13.00	-20.53
7520.00	-40.77	-43.43	11.04	-8.38	-13.00	-27.77

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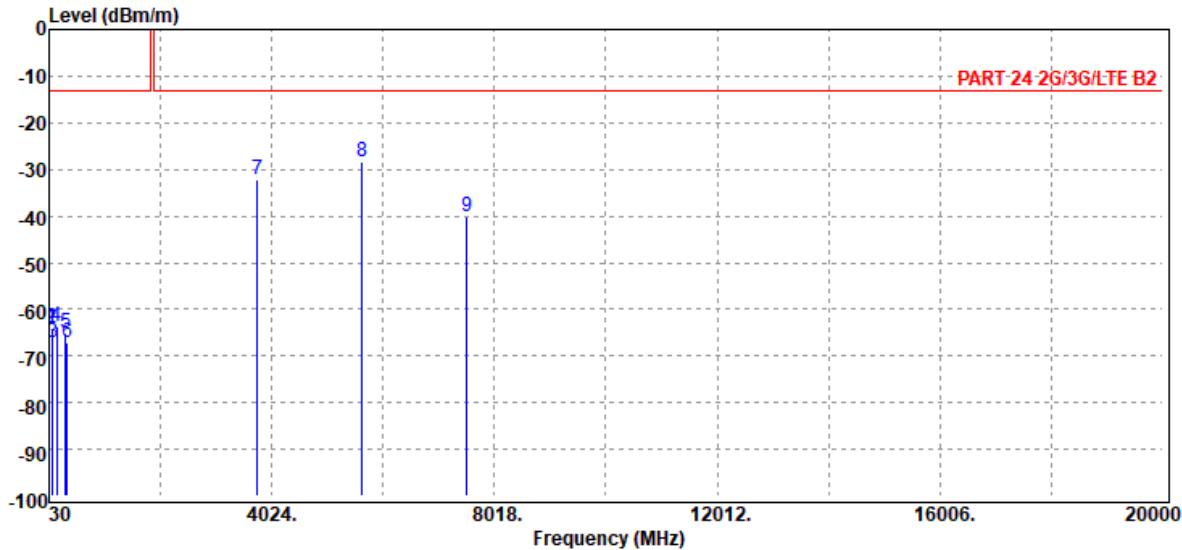
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Report Number :ER-2020-50029  
Operation Mode :WCDMA B2  
Test Mode :Tx CH Mid  
EUT Pol :H Plane  
Test Frequency :1880.0 MHz

Test Date :2020-05-27  
Temp./Humi. :24.6/66  
Antenna Pol. :HORIZONTAL  
Engineer :Nick



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
86.26	-63.92	-56.38	-6.66	-0.88	-13.00	-50.92
86.26	-63.92	-56.38	-6.66	-0.88	-13.00	-50.92
100.81	-67.10	-57.91	-8.24	-0.95	-13.00	-54.10
167.74	-63.59	-59.47	-2.86	-1.26	-13.00	-50.59
323.91	-64.94	-62.07	-1.20	-1.67	-13.00	-51.94
354.95	-67.03	-63.64	-1.62	-1.77	-13.00	-54.03
3760.00	-32.07	-38.73	12.40	-5.74	-13.00	-19.07
5640.00	-28.54	-34.57	13.26	-7.23	-13.00	-15.54
7520.00	-40.18	-42.84	11.04	-8.38	-13.00	-27.18

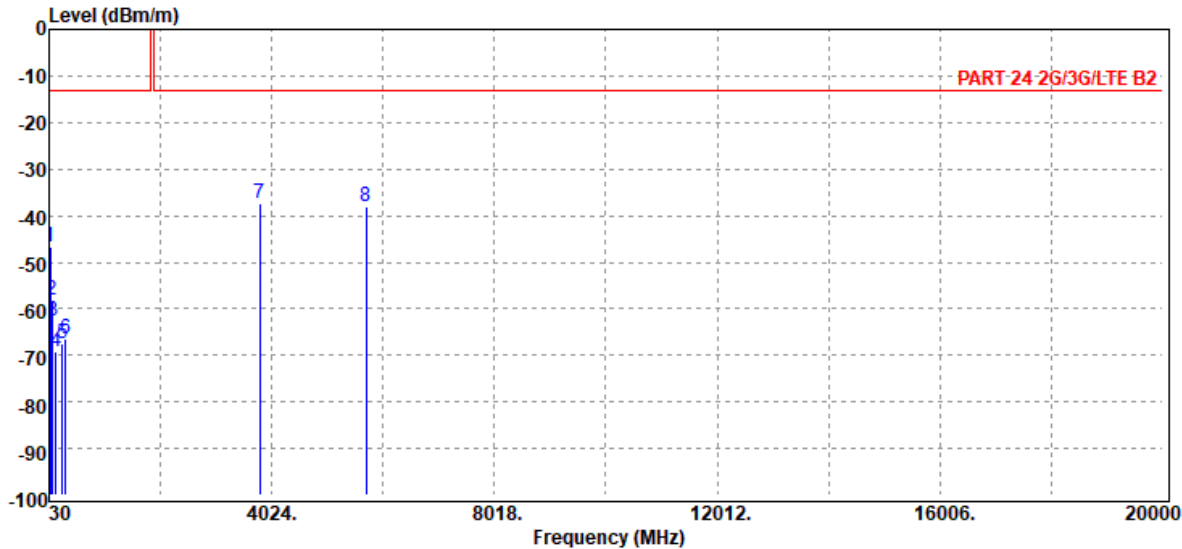
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Report Number :ER-2020-50029  
Operation Mode :WCDMA B2  
Test Mode :Tx CH High  
EUT Pol :H Plane  
Test Frequency :1907.6 MHz

Test Date :2020-05-27  
Temp./Humi. :24.6/66  
Antenna Pol. :VERTICAL  
Engineer :Nick



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
47.46	-46.76	-32.14	-14.02	-0.60	-13.00	-33.76
78.50	-57.98	-50.56	-6.58	-0.84	-13.00	-44.98
100.81	-62.58	-53.39	-8.24	-0.95	-13.00	-49.58
159.01	-69.15	-64.04	-3.90	-1.21	-13.00	-56.15
275.41	-67.63	-64.36	-1.73	-1.54	-13.00	-54.63
323.91	-66.42	-63.55	-1.20	-1.67	-13.00	-53.42
3815.20	-37.41	-44.05	12.40	-5.76	-13.00	-24.41
5722.80	-38.14	-43.80	13.10	-7.44	-13.00	-25.14

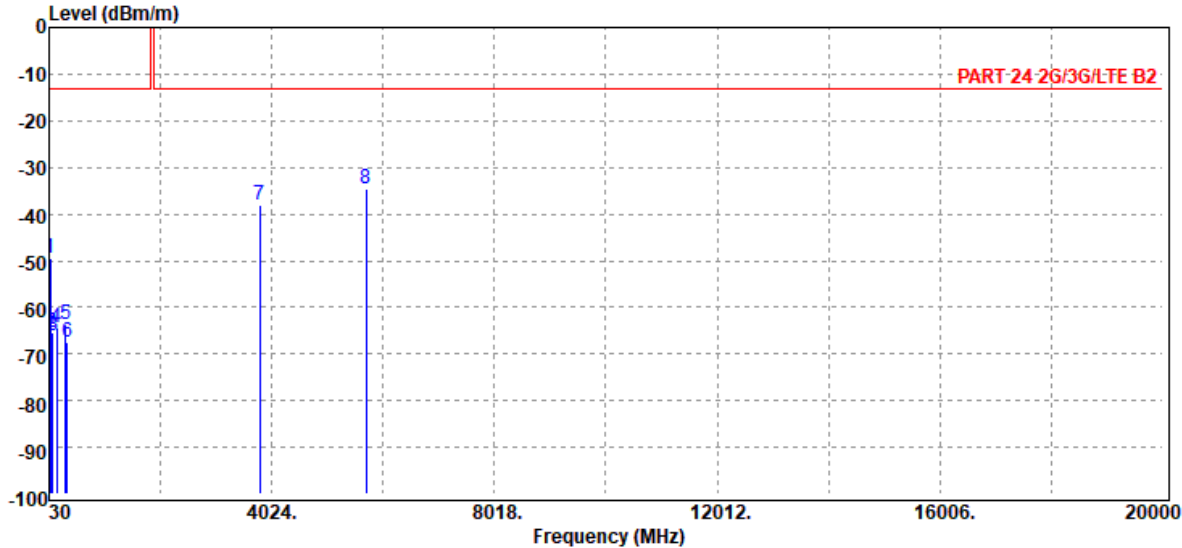
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Report Number :ER-2020-50029  
Operation Mode :WCDMA B2  
Test Mode :Tx CH High  
EUT Pol :H Plane  
Test Frequency :1907.6 MHz

Test Date :2020-05-27  
Temp./Humi. :24.6/66  
Antenna Pol. :HORIZONTAL  
Engineer :Nick


Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
47.46	-49.38	-34.76	-14.02	-0.60	-13.00	-36.38
86.26	-65.43	-57.89	-6.66	-0.88	-13.00	-52.43
100.81	-66.01	-56.82	-8.24	-0.95	-13.00	-53.01
173.56	-64.43	-60.94	-2.24	-1.25	-13.00	-51.43
323.91	-63.67	-60.80	-1.20	-1.67	-13.00	-50.67
354.95	-67.31	-63.92	-1.62	-1.77	-13.00	-54.31
3815.20	-38.18	-44.82	12.40	-5.76	-13.00	-25.18
5722.80	-34.48	-40.14	13.10	-7.44	-13.00	-21.48

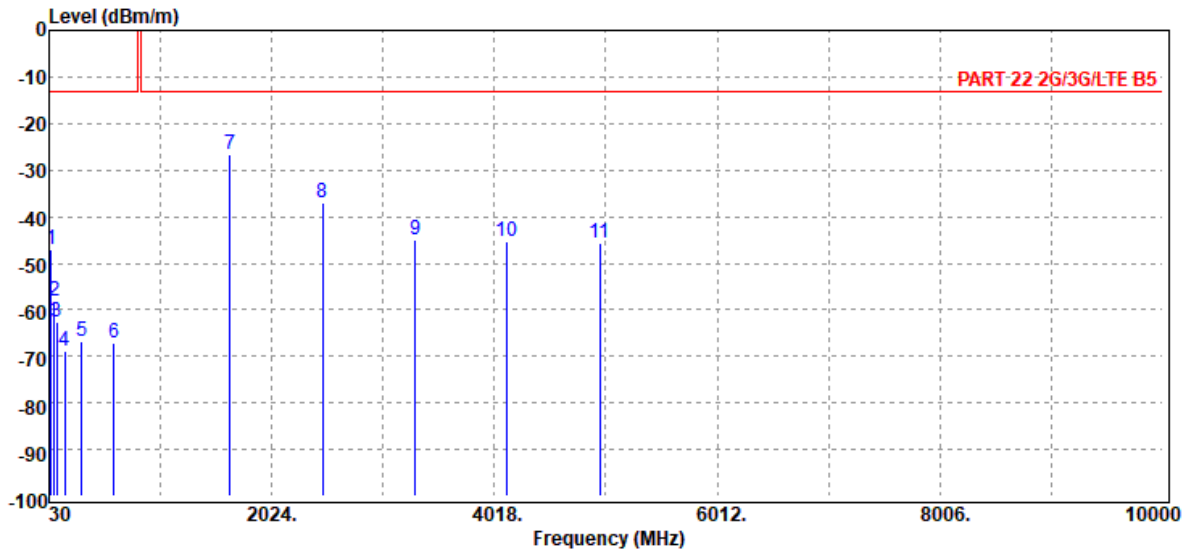
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Report Number :ER-2020-50029  
Operation Mode :WCDMA B5  
Test Mode :Tx CH Low  
EUT Pol :H Plane  
Test Frequency :826.4 MHz

Test Date :2020-05-27  
Temp./Humi. :24.6/66  
Antenna Pol. :VERTICAL  
Engineer :Nick



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
47.46	-46.93	-32.31	-14.02	-0.60	-13.00	-33.93
78.50	-58.25	-50.83	-6.58	-0.84	-13.00	-45.25
100.81	-62.49	-53.30	-8.24	-0.95	-13.00	-49.49
167.74	-68.91	-64.79	-2.86	-1.26	-13.00	-55.91
323.91	-66.72	-63.85	-1.20	-1.67	-13.00	-53.72
610.06	-67.12	-64.54	-0.62	-1.96	-13.00	-54.12
1652.80	-26.79	-32.83	9.91	-3.87	-13.00	-13.79
2479.20	-37.16	-43.00	10.62	-4.78	-13.00	-24.16
3305.60	-45.00	-51.23	12.43	-6.20	-13.00	-32.00
4132.00	-45.42	-52.15	12.80	-6.07	-13.00	-32.42
4958.40	-45.53	-51.48	12.77	-6.82	-13.00	-32.53

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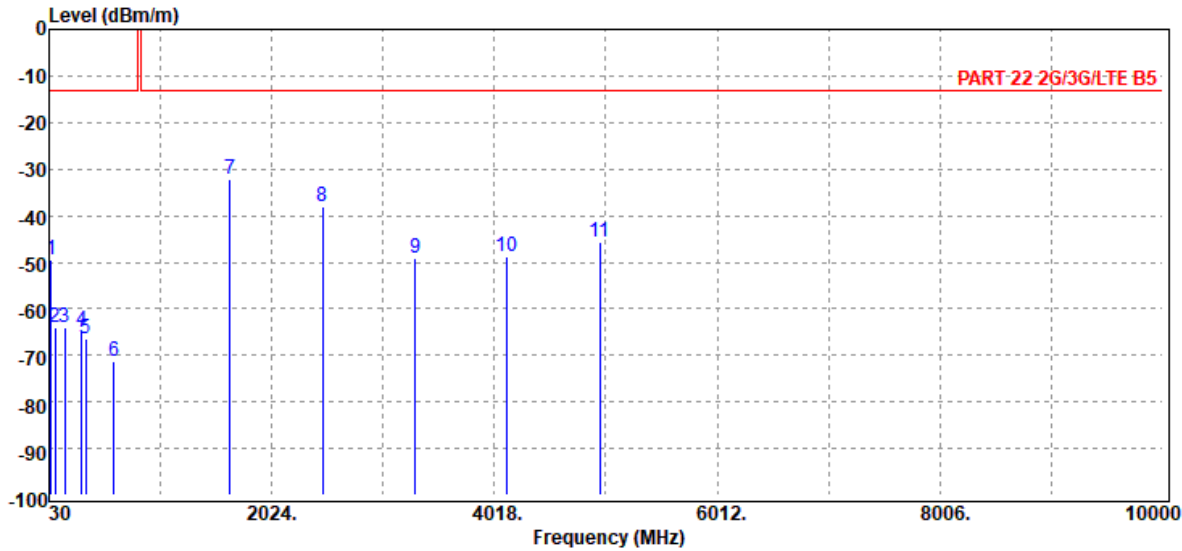
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Report Number :ER-2020-50029  
Operation Mode :WCDMA B5  
Test Mode :Tx CH Low  
EUT Pol :H Plane  
Test Frequency :826.4 MHz

Test Date :2020-05-27  
Temp./Humi. :24.6/66  
Antenna Pol. :HORIZONTAL  
Engineer :Nick



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
47.46	-49.48	-34.86	-14.02	-0.60	-13.00	-36.48
86.26	-63.91	-56.37	-6.66	-0.88	-13.00	-50.91
167.74	-64.10	-59.98	-2.86	-1.26	-13.00	-51.10
323.91	-64.59	-61.72	-1.20	-1.67	-13.00	-51.59
354.95	-66.43	-63.04	-1.62	-1.77	-13.00	-53.43
610.06	-71.15	-68.57	-0.62	-1.96	-13.00	-58.15
1652.80	-32.23	-38.27	9.91	-3.87	-13.00	-19.23
2479.20	-38.02	-43.86	10.62	-4.78	-13.00	-25.02
3305.60	-49.20	-55.43	12.43	-6.20	-13.00	-36.20
4132.00	-48.66	-55.39	12.80	-6.07	-13.00	-35.66
4958.40	-45.84	-51.79	12.77	-6.82	-13.00	-32.84

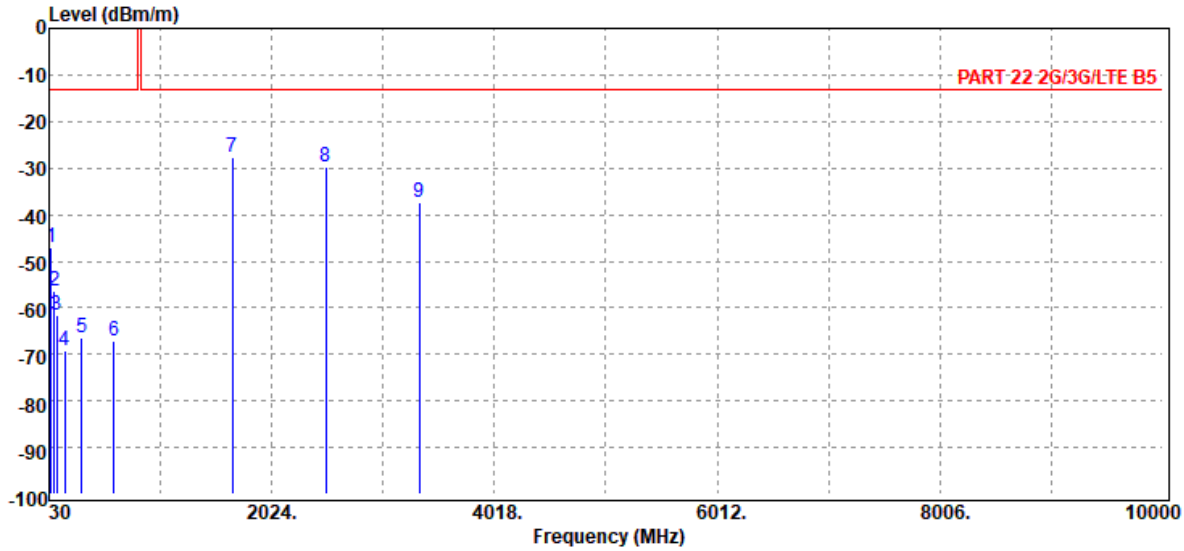
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Report Number :ER-2020-50029  
Operation Mode :WCDMA B5  
Test Mode :Tx CH Mid  
EUT Pol :H Plane  
Test Frequency :836.6 MHz

Test Date :2020-05-27  
Temp./Humi. :24.6/66  
Antenna Pol. :VERTICAL  
Engineer :Nick



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
47.46	-47.00	-32.38	-14.02	-0.60	-13.00	-34.00
78.50	-56.47	-49.05	-6.58	-0.84	-13.00	-43.47
100.81	-61.55	-52.36	-8.24	-0.95	-13.00	-48.55
173.56	-69.28	-65.79	-2.24	-1.25	-13.00	-56.28
323.91	-66.37	-63.50	-1.20	-1.67	-13.00	-53.37
610.06	-67.27	-64.69	-0.62	-1.96	-13.00	-54.27
1673.20	-27.79	-33.84	9.95	-3.90	-13.00	-14.79
2509.80	-29.88	-35.80	10.74	-4.82	-13.00	-16.88
3346.40	-37.54	-44.57	12.68	-5.65	-13.00	-24.54

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.

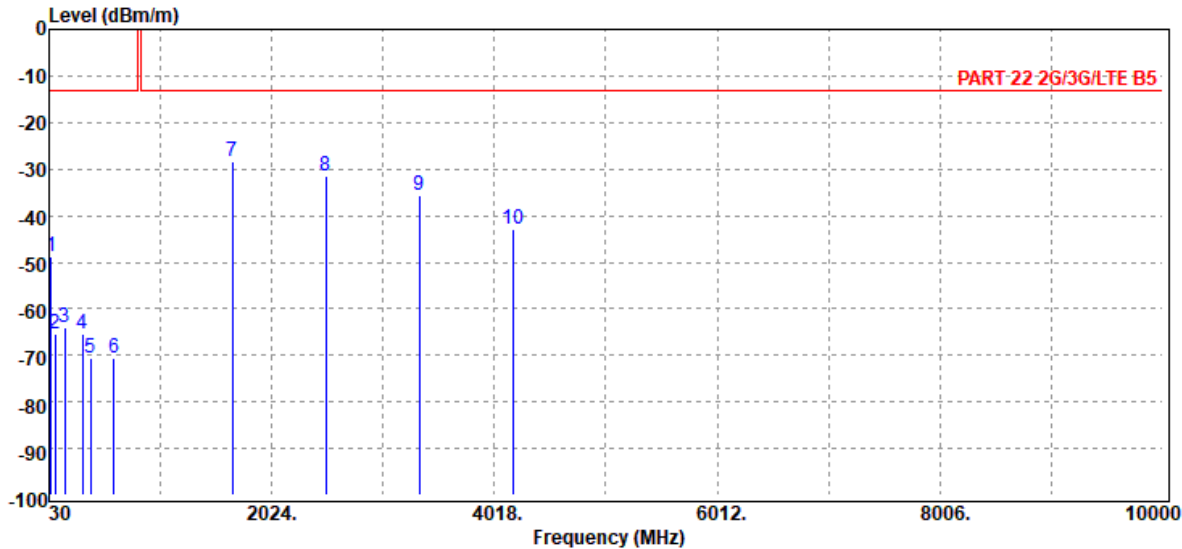
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Report Number :ER-2020-50029  
Operation Mode :WCDMA B5  
Test Mode :Tx CH Mid  
EUT Pol :H Plane  
Test Frequency :836.6 MHz

Test Date :2020-05-27  
Temp./Humi. :24.6/66  
Antenna Pol. :HORIZONTAL  
Engineer :Nick



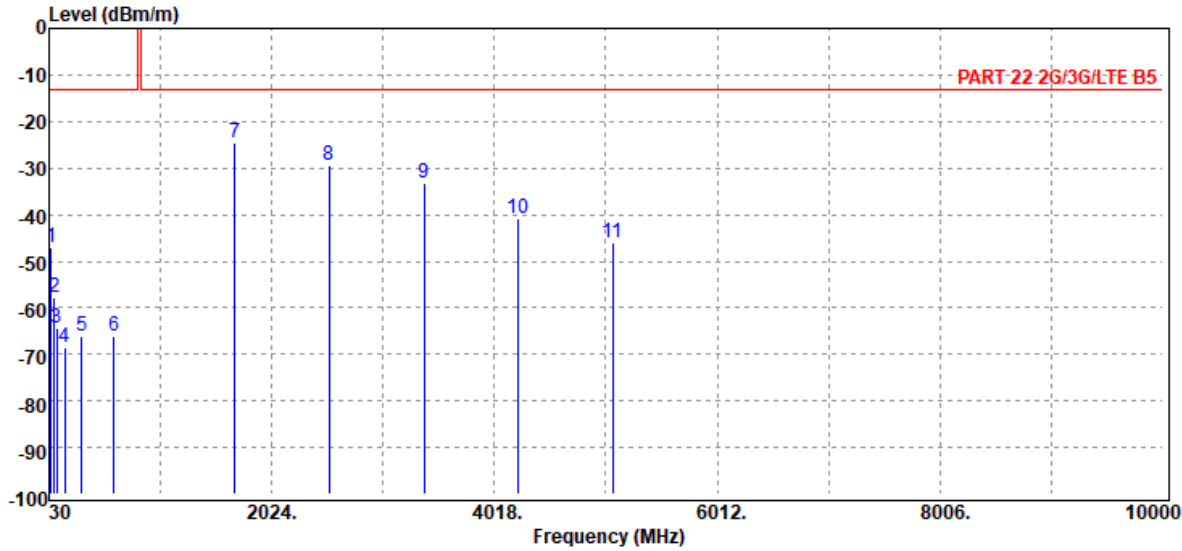
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
47.46	-48.92	-34.30	-14.02	-0.60	-13.00	-35.92
86.26	-65.30	-57.76	-6.66	-0.88	-13.00	-52.30
167.74	-64.05	-59.93	-2.86	-1.26	-13.00	-51.05
330.70	-65.48	-62.60	-1.17	-1.71	-13.00	-52.48
400.54	-70.60	-67.13	-1.60	-1.87	-13.00	-57.60
610.06	-70.62	-68.04	-0.62	-1.96	-13.00	-57.62
1673.20	-28.36	-34.41	9.95	-3.90	-13.00	-15.36
2509.80	-31.35	-37.27	10.74	-4.82	-13.00	-18.35
3346.40	-35.75	-42.78	12.68	-5.65	-13.00	-22.75
4183.00	-42.97	-49.43	12.80	-6.34	-13.00	-29.97

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Report Number :ER-2020-50029  
Operation Mode :WCDMA B5  
Test Mode :Tx CH High  
EUT Pol :H Plane  
Test Frequency :846.6 MHz

Test Date :2020-05-27  
Temp./Humi. :24.6/66  
Antenna Pol. :VERTICAL  
Engineer :Nick


Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
47.46	-46.92	-32.30	-14.02	-0.60	-13.00	-33.92
78.50	-57.84	-50.42	-6.58	-0.84	-13.00	-44.84
100.81	-64.50	-55.31	-8.24	-0.95	-13.00	-51.50
173.56	-68.52	-65.03	-2.24	-1.25	-13.00	-55.52
323.91	-65.95	-63.08	-1.20	-1.67	-13.00	-52.95
610.06	-66.25	-63.67	-0.62	-1.96	-13.00	-53.25
1693.20	-24.72	-30.79	9.99	-3.92	-13.00	-11.72
2539.80	-29.32	-35.33	10.86	-4.85	-13.00	-16.32
3386.40	-33.19	-40.78	12.70	-5.11	-13.00	-20.19
4233.00	-40.71	-47.17	12.80	-6.34	-13.00	-27.71
5079.60	-46.08	-51.49	12.20	-6.79	-13.00	-33.08

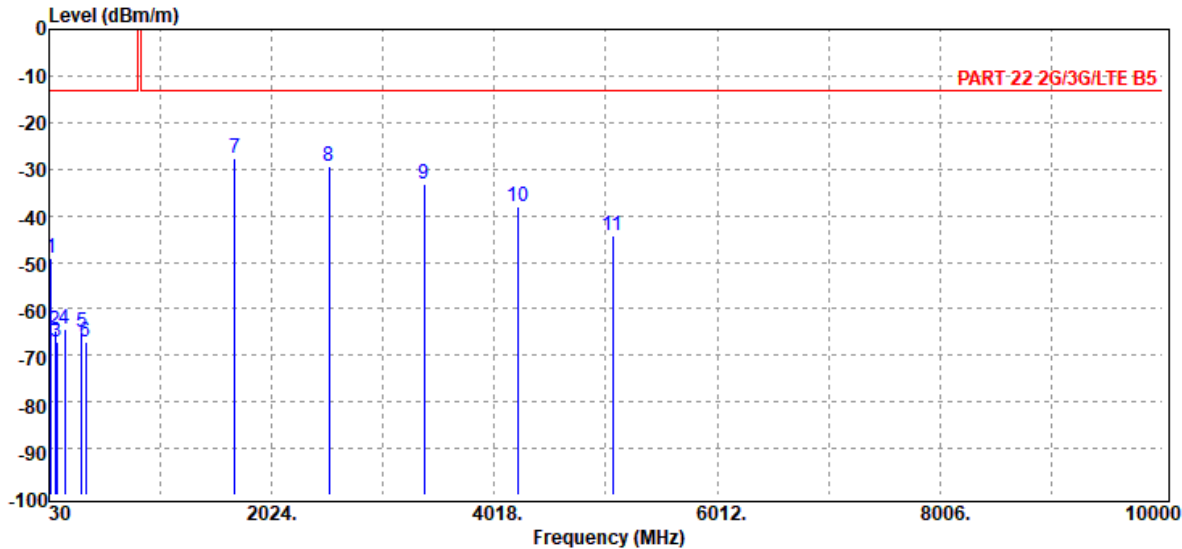
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Report Number :ER-2020-50029  
Operation Mode :WCDMA B5  
Test Mode :Tx CH High  
EUT Pol :H Plane  
Test Frequency :846.6 MHz

Test Date :2020-05-27  
Temp./Humi. :24.6/66  
Antenna Pol. :HORIZONTAL  
Engineer :Nick


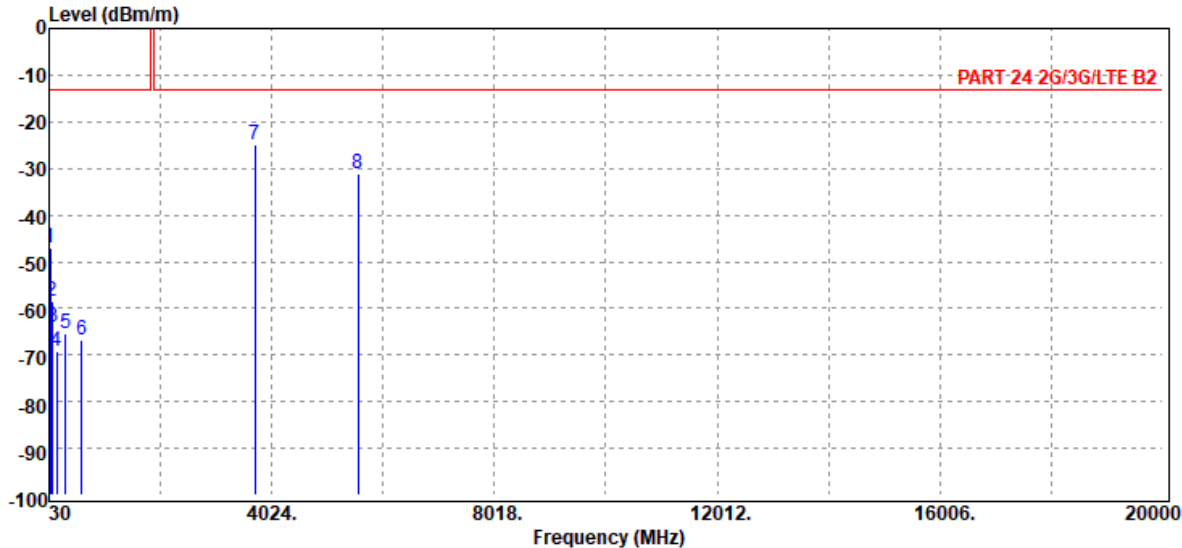
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
47.46	-49.28	-34.66	-14.02	-0.60	-13.00	-36.28
86.26	-64.67	-57.13	-6.66	-0.88	-13.00	-51.67
100.81	-67.24	-58.05	-8.24	-0.95	-13.00	-54.24
173.56	-64.30	-60.81	-2.24	-1.25	-13.00	-51.30
323.91	-65.13	-62.26	-1.20	-1.67	-13.00	-52.13
354.95	-67.12	-63.73	-1.62	-1.77	-13.00	-54.12
1693.20	-27.76	-33.83	9.99	-3.92	-13.00	-14.76
2539.80	-29.29	-35.30	10.86	-4.85	-13.00	-16.29
3386.40	-33.08	-40.67	12.70	-5.11	-13.00	-20.08
4233.00	-37.92	-44.38	12.80	-6.34	-13.00	-24.92
5079.60	-44.37	-49.78	12.20	-6.79	-13.00	-31.37

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Report Number :ER-2020-50029  
Operation Mode :LTE B2  
Test Mode :Tx CH Low  
EUT Pol :H Plane  
Test Frequency :1857.5 MHz

Test Date :2020-05-27  
Temp./Humi. :24.6/66  
Antenna Pol. :VERTICAL  
Engineer :Nick


Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
47.46	-46.89	-32.27	-14.02	-0.60	-13.00	-33.89
78.50	-58.33	-50.91	-6.58	-0.84	-13.00	-45.33
100.81	-63.99	-54.80	-8.24	-0.95	-13.00	-50.99
173.56	-69.32	-65.83	-2.24	-1.25	-13.00	-56.32
323.91	-65.34	-62.47	-1.20	-1.67	-13.00	-52.34
610.06	-66.93	-64.35	-0.62	-1.96	-13.00	-53.93
3715.00	-24.88	-31.45	12.40	-5.83	-13.00	-11.88
5572.50	-31.21	-37.14	13.15	-7.22	-13.00	-18.21

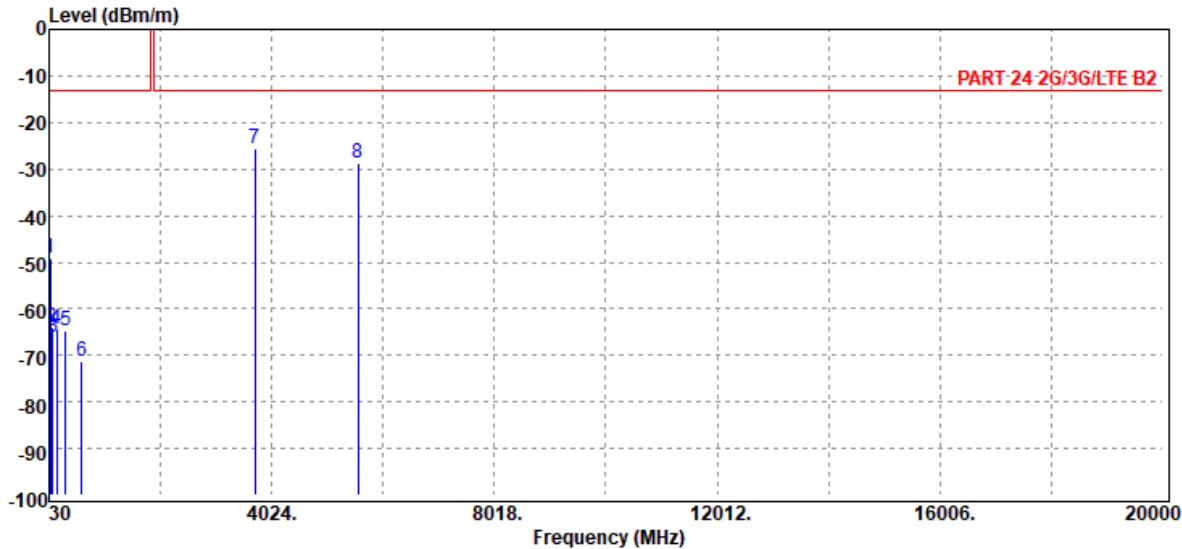
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Report Number :ER-2020-50029  
Operation Mode :LTE B2  
Test Mode :Tx CH Low  
EUT Pol :H Plane  
Test Frequency :1857.5 MHz

Test Date :2020-05-27  
Temp./Humi. :24.6/66  
Antenna Pol. :HORIZONTAL  
Engineer :Nick


Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
47.46	-49.06	-34.44	-14.02	-0.60	-13.00	-36.06
86.26	-63.99	-56.45	-6.66	-0.88	-13.00	-50.99
100.81	-65.97	-56.78	-8.24	-0.95	-13.00	-52.97
167.74	-64.39	-60.27	-2.86	-1.26	-13.00	-51.39
323.91	-64.82	-61.95	-1.20	-1.67	-13.00	-51.82
610.06	-71.11	-68.53	-0.62	-1.96	-13.00	-58.11
3715.00	-25.62	-32.19	12.40	-5.83	-13.00	-12.62
5572.50	-28.80	-34.73	13.15	-7.22	-13.00	-15.80

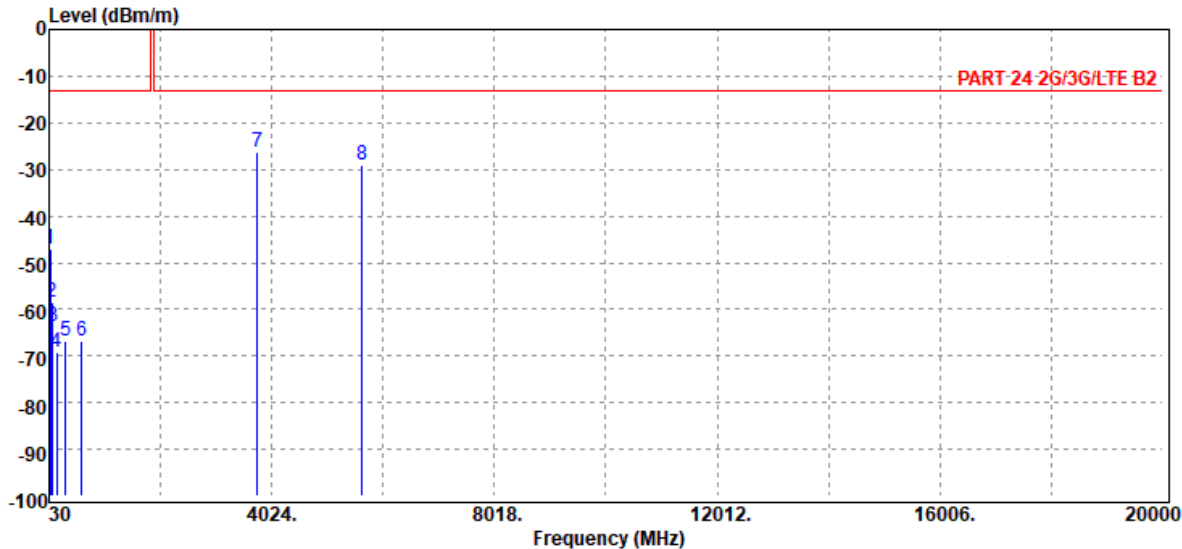
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Report Number :ER-2020-50029  
Operation Mode :LTE B2  
Test Mode :Tx CH Mid  
EUT Pol :H Plane  
Test Frequency :1880.0 MHz

Test Date :2020-05-27  
Temp./Humi. :24.6/66  
Antenna Pol. :VERTICAL  
Engineer :Nick



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
46.49	-47.03	-31.89	-14.53	-0.61	-13.00	-34.03
77.53	-58.38	-51.00	-6.54	-0.84	-13.00	-45.38
100.81	-63.51	-54.32	-8.24	-0.95	-13.00	-50.51
173.56	-69.07	-65.58	-2.24	-1.25	-13.00	-56.07
330.70	-66.81	-63.93	-1.17	-1.71	-13.00	-53.81
610.06	-66.89	-64.31	-0.62	-1.96	-13.00	-53.89
3760.00	-26.13	-32.79	12.40	-5.74	-13.00	-13.13
5640.00	-29.09	-35.12	13.26	-7.23	-13.00	-16.09

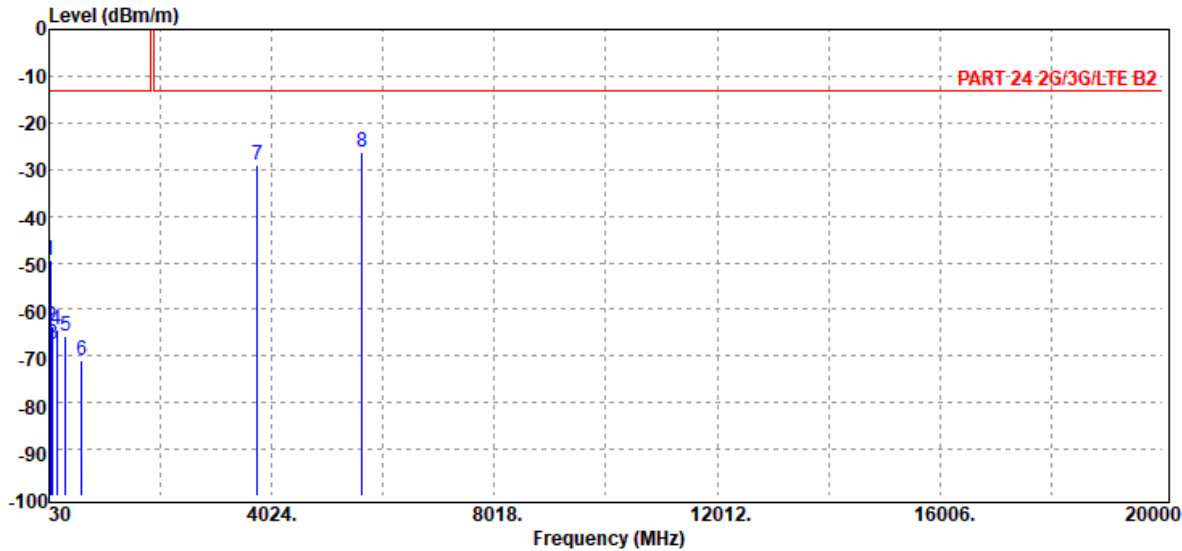
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Report Number :ER-2020-50029  
Operation Mode :LTE B2  
Test Mode :Tx CH Mid  
EUT Pol :H Plane  
Test Frequency :1880.0 MHz

Test Date :2020-05-27  
Temp./Humi. :24.6/66  
Antenna Pol. :HORIZONTAL  
Engineer :Nick


Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
47.46	-49.63	-35.01	-14.02	-0.60	-13.00	-36.63
86.26	-63.60	-56.06	-6.66	-0.88	-13.00	-50.60
100.81	-67.34	-58.15	-8.24	-0.95	-13.00	-54.34
173.56	-64.21	-60.72	-2.24	-1.25	-13.00	-51.21
323.91	-65.68	-62.81	-1.20	-1.67	-13.00	-52.68
610.06	-70.99	-68.41	-0.62	-1.96	-13.00	-57.99
3760.00	-29.12	-35.78	12.40	-5.74	-13.00	-16.12
5640.00	-26.26	-32.29	13.26	-7.23	-13.00	-13.26

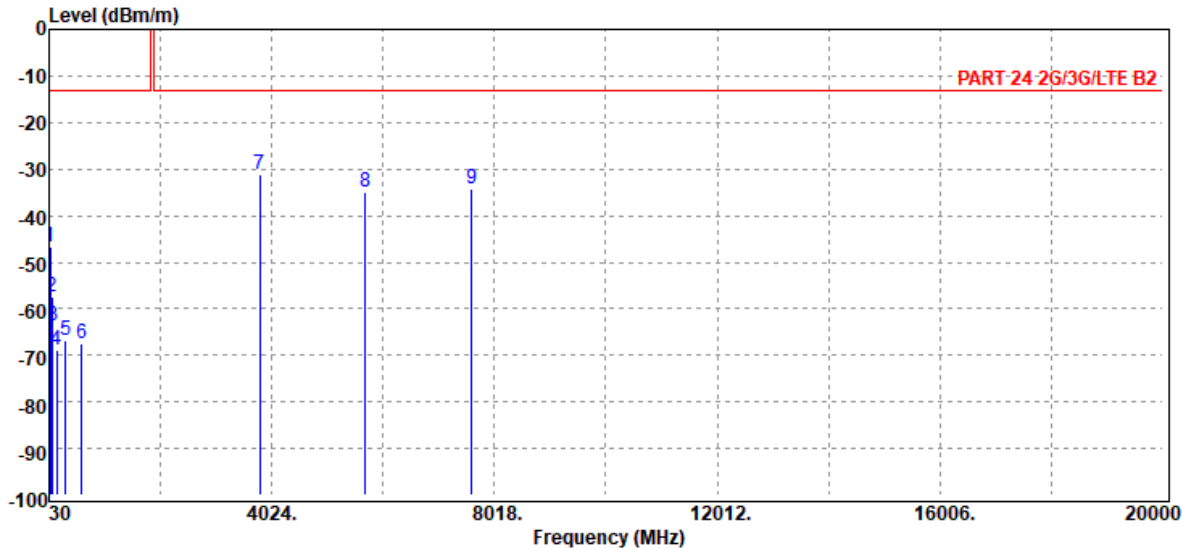
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Report Number :ER-2020-50029  
Operation Mode :LTE B2  
Test Mode :Tx CH High  
EUT Pol :H Plane  
Test Frequency :1902.5 MHz

Test Date :2020-05-27  
Temp./Humi. :24.6/66  
Antenna Pol. :VERTICAL  
Engineer :Nick



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
47.46	-46.63	-32.01	-14.02	-0.60	-13.00	-33.63
78.50	-57.59	-50.17	-6.58	-0.84	-13.00	-44.59
100.81	-63.56	-54.37	-8.24	-0.95	-13.00	-50.56
173.56	-69.00	-65.51	-2.24	-1.25	-13.00	-56.00
323.91	-66.65	-63.78	-1.20	-1.67	-13.00	-53.65
610.06	-67.45	-64.87	-0.62	-1.96	-13.00	-54.45
3805.00	-31.19	-37.90	12.40	-5.69	-13.00	-18.19
5707.50	-34.97	-40.61	13.10	-7.46	-13.00	-21.97
7610.00	-34.42	-37.14	11.22	-8.50	-13.00	-21.42

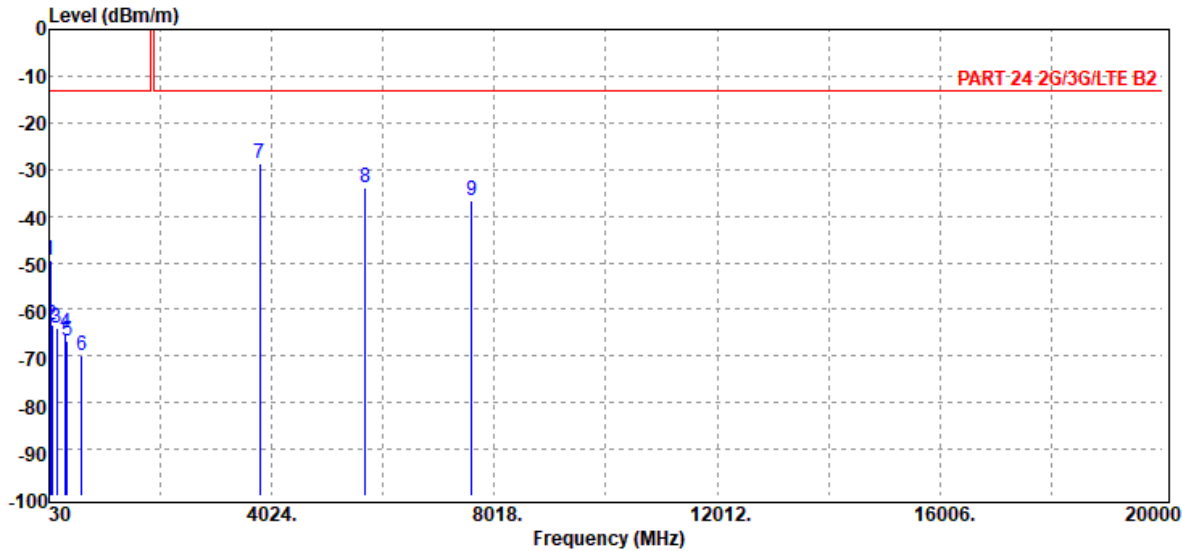
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Report Number :ER-2020-50029  
Operation Mode :LTE B2  
Test Mode :Tx CH High  
EUT Pol :H Plane  
Test Frequency :1902.5 MHz

Test Date :2020-05-27  
Temp./Humi. :24.6/66  
Antenna Pol. :HORIZONTAL  
Engineer :Nick


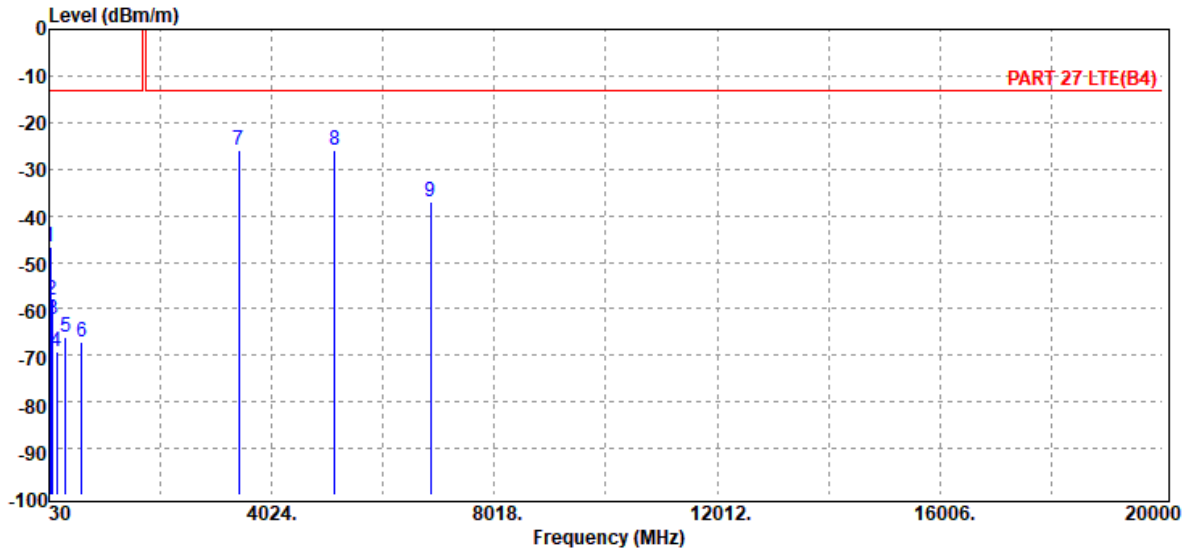
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
47.46	-49.47	-34.85	-14.02	-0.60	-13.00	-36.47
86.26	-63.40	-55.86	-6.66	-0.88	-13.00	-50.40
167.74	-63.84	-59.72	-2.86	-1.26	-13.00	-50.84
323.91	-65.16	-62.29	-1.20	-1.67	-13.00	-52.16
354.95	-66.85	-63.46	-1.62	-1.77	-13.00	-53.85
610.06	-69.77	-67.19	-0.62	-1.96	-13.00	-56.77
3805.00	-28.79	-35.50	12.40	-5.69	-13.00	-15.79
5707.50	-33.78	-39.42	13.10	-7.46	-13.00	-20.78
7610.00	-36.53	-39.25	11.22	-8.50	-13.00	-23.53

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Report Number :ER-2020-50029  
Operation Mode :LTE B4  
Test Mode :Tx CH Low  
EUT Pol :H Plane  
Test Frequency :1717.5 MHz

Test Date :2020-05-27  
Temp./Humi. :24.6/66  
Antenna Pol. :VERTICAL  
Engineer :Nick


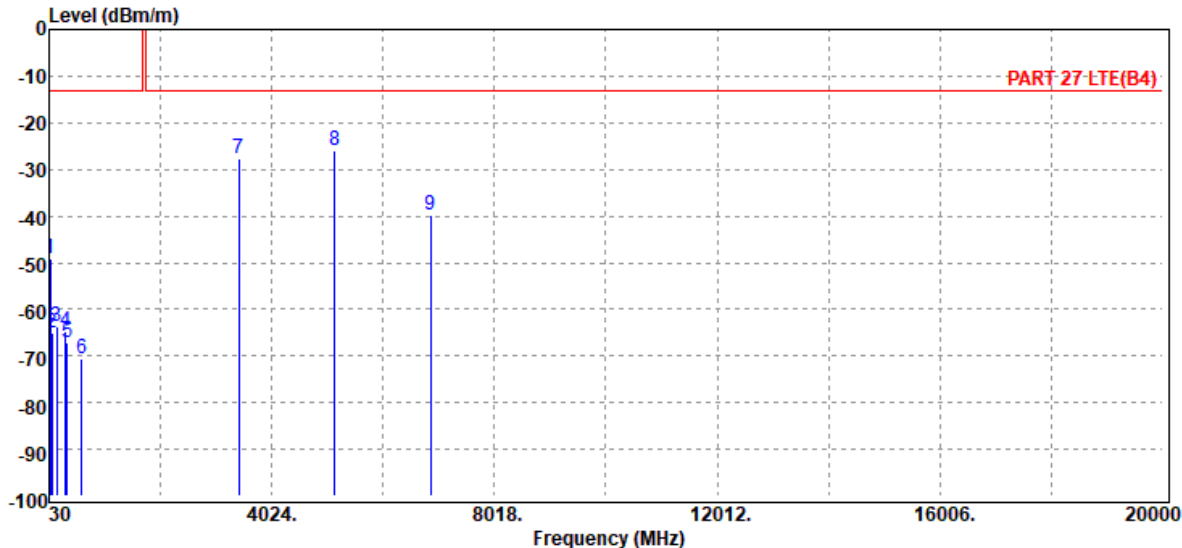
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
47.46	-46.83	-32.21	-14.02	-0.60	-13.00	-33.83
78.50	-58.10	-50.68	-6.58	-0.84	-13.00	-45.10
100.81	-62.31	-53.12	-8.24	-0.95	-13.00	-49.31
167.74	-69.08	-64.96	-2.86	-1.26	-13.00	-56.08
323.91	-65.99	-63.12	-1.20	-1.67	-13.00	-52.99
610.06	-67.10	-64.52	-0.62	-1.96	-13.00	-54.10
3435.00	-25.85	-33.28	12.70	-5.27	-13.00	-12.85
5152.50	-26.02	-31.56	12.52	-6.98	-13.00	-13.02
6870.00	-36.97	-40.34	11.54	-8.17	-13.00	-23.97

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Report Number :ER-2020-50029  
Operation Mode :LTE B4  
Test Mode :Tx CH Low  
EUT Pol :H Plane  
Test Frequency :1717.5 MHz

Test Date :2020-05-27  
Temp./Humi. :24.6/66  
Antenna Pol. :HORIZONTAL  
Engineer :Nick


Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
47.46	-49.19	-34.57	-14.02	-0.60	-13.00	-36.19
86.26	-64.89	-57.35	-6.66	-0.88	-13.00	-51.89
167.74	-63.82	-59.70	-2.86	-1.26	-13.00	-50.82
323.91	-64.66	-61.79	-1.20	-1.67	-13.00	-51.66
354.95	-66.97	-63.58	-1.62	-1.77	-13.00	-53.97
610.06	-70.69	-68.11	-0.62	-1.96	-13.00	-57.69
3435.00	-27.58	-35.01	12.70	-5.27	-13.00	-14.58
5152.50	-25.96	-31.50	12.52	-6.98	-13.00	-12.96
6870.00	-39.85	-43.22	11.54	-8.17	-13.00	-26.85

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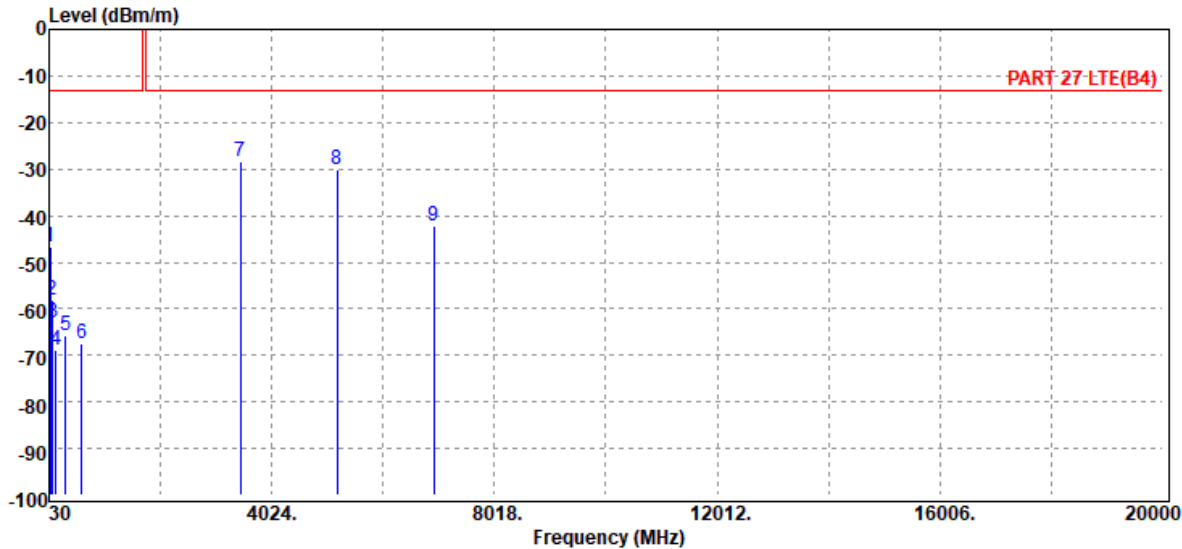
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Report Number :ER-2020-50029  
Operation Mode :LTE B4  
Test Mode :Tx CH Mid  
EUT Pol :H Plane  
Test Frequency :1732.5 MHz

Test Date :2020-05-27  
Temp./Humi. :24.6/66  
Antenna Pol. :VERTICAL  
Engineer :Nick



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
47.46	-46.71	-32.09	-14.02	-0.60	-13.00	-33.71
78.50	-58.08	-50.66	-6.58	-0.84	-13.00	-45.08
100.81	-62.90	-53.71	-8.24	-0.95	-13.00	-49.90
159.01	-68.72	-63.61	-3.90	-1.21	-13.00	-55.72
330.70	-65.75	-62.87	-1.17	-1.71	-13.00	-52.75
610.06	-67.54	-64.96	-0.62	-1.96	-13.00	-54.54
3465.00	-28.24	-35.34	12.67	-5.57	-13.00	-15.24
5197.50	-29.97	-35.60	12.79	-7.16	-13.00	-16.97
6930.00	-42.33	-45.44	11.24	-8.13	-13.00	-29.33

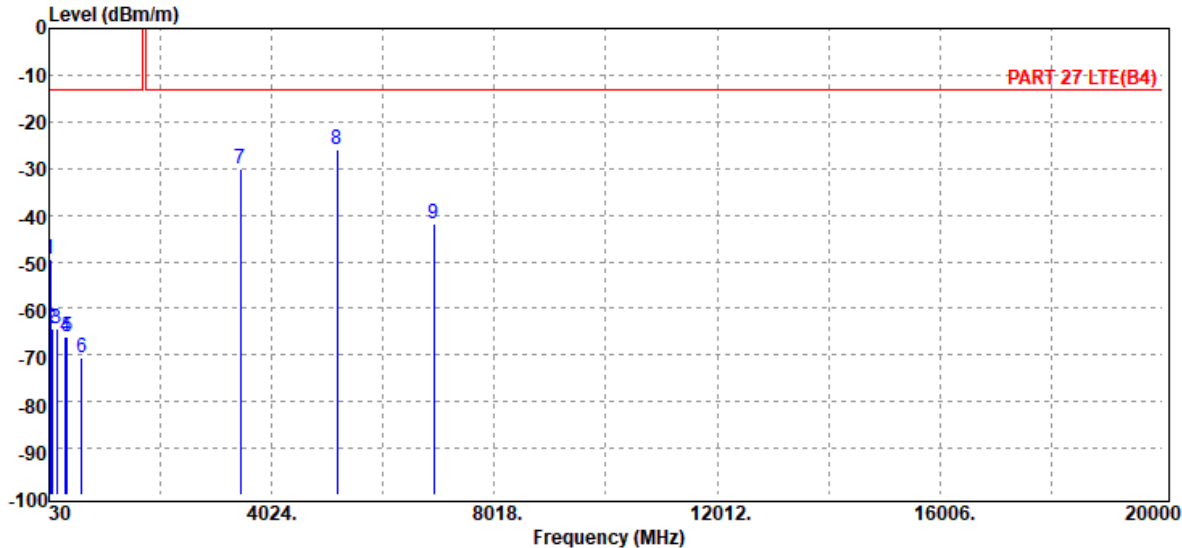
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Report Number :ER-2020-50029  
Operation Mode :LTE B4  
Test Mode :Tx CH Mid  
EUT Pol :H Plane  
Test Frequency :1732.5 MHz

Test Date :2020-05-27  
Temp./Humi. :24.6/66  
Antenna Pol. :HORIZONTAL  
Engineer :Nick



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
47.46	-49.39	-34.77	-14.02	-0.60	-13.00	-36.39
86.26	-64.22	-56.68	-6.66	-0.88	-13.00	-51.22
167.74	-64.49	-60.37	-2.86	-1.26	-13.00	-51.49
323.91	-65.99	-63.12	-1.20	-1.67	-13.00	-52.99
354.95	-66.03	-62.64	-1.62	-1.77	-13.00	-53.03
610.06	-70.66	-68.08	-0.62	-1.96	-13.00	-57.66
3465.00	-30.08	-37.18	12.67	-5.57	-13.00	-17.08
5197.50	-25.83	-31.46	12.79	-7.16	-13.00	-12.83
6930.00	-41.83	-44.94	11.24	-8.13	-13.00	-28.83

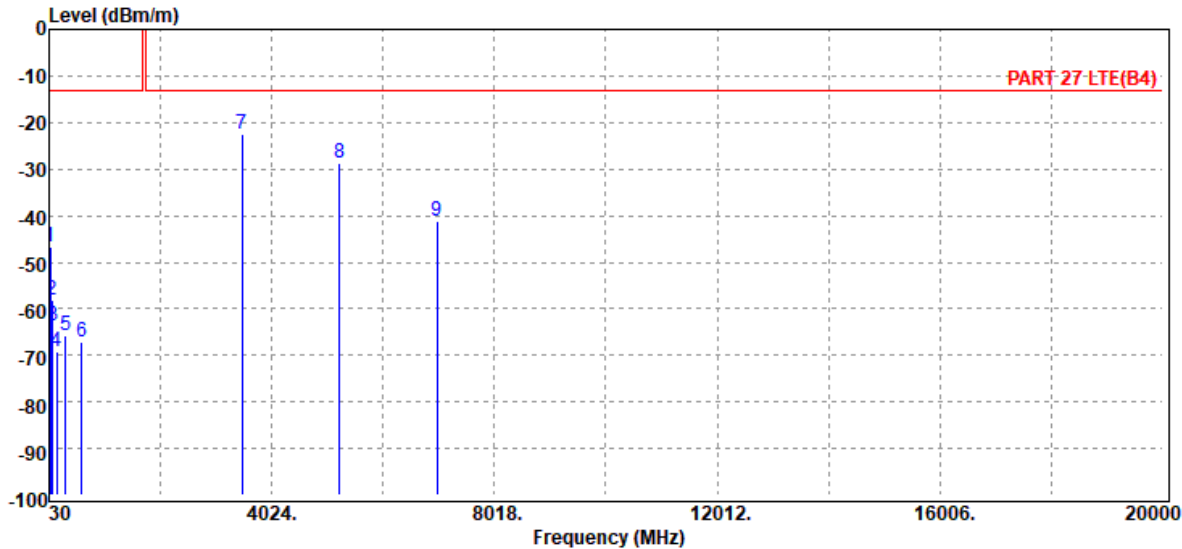
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Report Number :ER-2020-50029  
Operation Mode :LTE B4  
Test Mode :Tx CH High  
EUT Pol :H Plane  
Test Frequency :1747.5 MHz

Test Date :2020-05-27  
Temp./Humi. :24.6/66  
Antenna Pol. :VERTICAL  
Engineer :Nick



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
47.46	-46.86	-32.24	-14.02	-0.60	-13.00	-33.86
78.50	-58.10	-50.68	-6.58	-0.84	-13.00	-45.10
100.81	-63.69	-54.50	-8.24	-0.95	-13.00	-50.69
173.56	-69.15	-65.66	-2.24	-1.25	-13.00	-56.15
323.91	-65.58	-62.71	-1.20	-1.67	-13.00	-52.58
610.06	-67.19	-64.61	-0.62	-1.96	-13.00	-54.19
3495.00	-22.61	-29.36	12.61	-5.86	-13.00	-9.61
5242.50	-28.86	-34.76	13.06	-7.16	-13.00	-15.86
6990.00	-41.22	-44.21	11.04	-8.05	-13.00	-28.22

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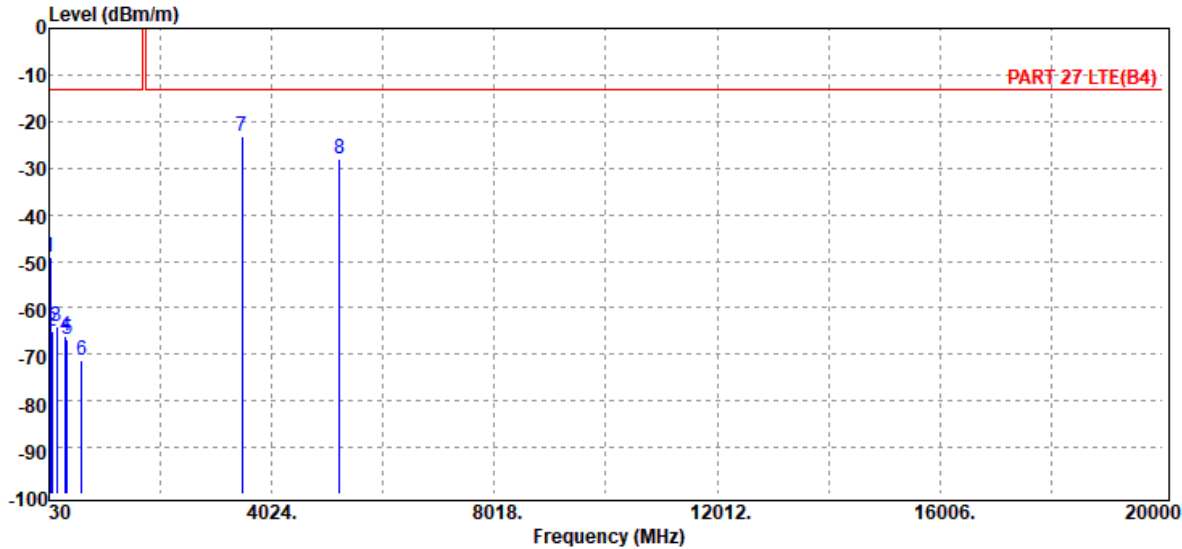
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Report Number :ER-2020-50029  
Operation Mode :LTE B4  
Test Mode :Tx CH High  
EUT Pol :H Plane  
Test Frequency :1747.5 MHz

Test Date :2020-05-27  
Temp./Humi. :24.6/66  
Antenna Pol. :HORIZONTAL  
Engineer :Nick



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
47.46	-49.22	-34.60	-14.02	-0.60	-13.00	-36.22
86.26	-65.06	-57.52	-6.66	-0.88	-13.00	-52.06
167.74	-64.00	-59.88	-2.86	-1.26	-13.00	-51.00
323.91	-65.93	-63.06	-1.20	-1.67	-13.00	-52.93
354.95	-66.65	-63.26	-1.62	-1.77	-13.00	-53.65
610.06	-71.14	-68.56	-0.62	-1.96	-13.00	-58.14
3495.00	-23.35	-30.10	12.61	-5.86	-13.00	-10.35
5242.50	-27.95	-33.85	13.06	-7.16	-13.00	-14.95

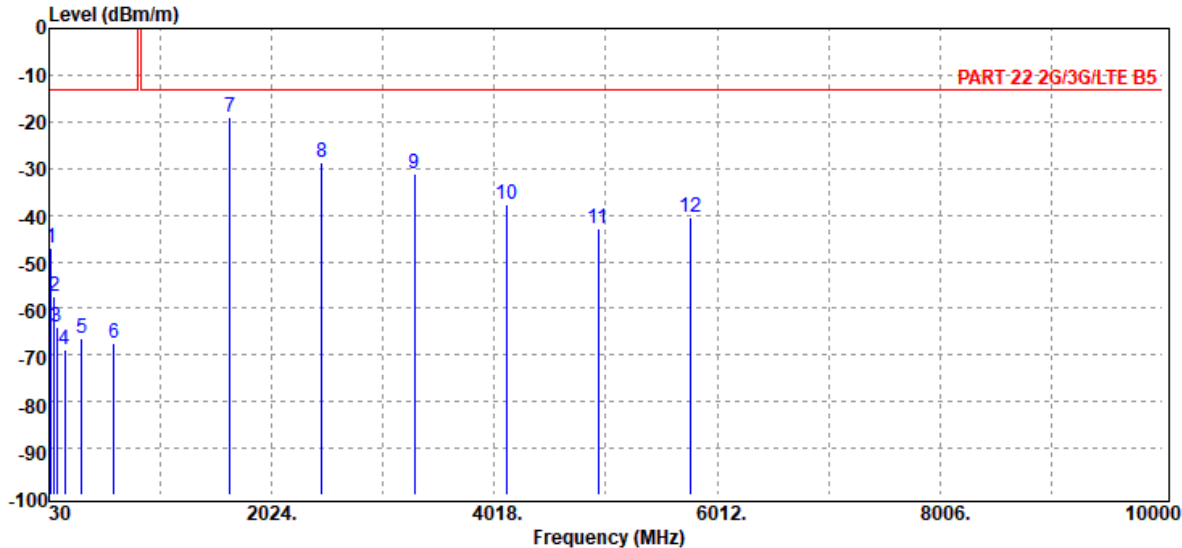
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Report Number :ER-2020-50029  
Operation Mode :LTE B5  
Test Mode :Tx CH Low  
EUT Pol :H Plane  
Test Frequency :824.7 MHz

Test Date :2020-05-27  
Temp./Humi. :24.6/66  
Antenna Pol. :VERTICAL  
Engineer :Nick



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
47.46	-46.91	-32.29	-14.02	-0.60	-13.00	-33.91
78.50	-57.48	-50.06	-6.58	-0.84	-13.00	-44.48
100.81	-63.96	-54.77	-8.24	-0.95	-13.00	-50.96
167.74	-68.87	-64.75	-2.86	-1.26	-13.00	-55.87
323.91	-66.48	-63.61	-1.20	-1.67	-13.00	-53.48
610.06	-67.59	-65.01	-0.62	-1.96	-13.00	-54.59
1649.40	-19.17	-25.21	9.90	-3.86	-13.00	-6.17
2474.10	-28.57	-34.39	10.60	-4.78	-13.00	-15.57
3298.80	-31.20	-37.32	12.39	-6.27	-13.00	-18.20
4123.50	-37.80	-44.57	12.80	-6.03	-13.00	-24.80
4948.20	-42.87	-48.86	12.80	-6.81	-13.00	-29.87
5772.90	-40.45	7.38	13.05	-7.38	-13.00	-27.45

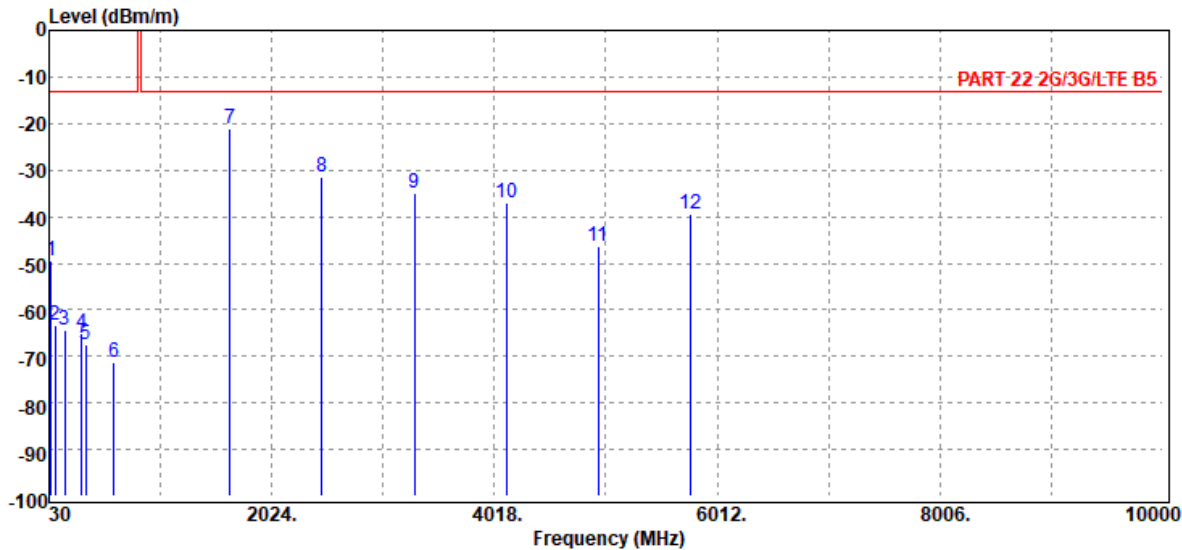
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Report Number :ER-2020-50029  
Operation Mode :LTE B5  
Test Mode :Tx CH Low  
EUT Pol :H Plane  
Test Frequency :824.7 MHz

Test Date :2020-05-27  
Temp./Humi. :24.6/66  
Antenna Pol. :HORIZONTAL  
Engineer :Nick



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
47.46	-49.36	-34.74	-14.02	-0.60	-13.00	-36.36
86.26	-63.46	-55.92	-6.66	-0.88	-13.00	-50.46
173.56	-64.45	-60.96	-2.24	-1.25	-13.00	-51.45
323.91	-64.97	-62.10	-1.20	-1.67	-13.00	-51.97
354.95	-67.39	-64.00	-1.62	-1.77	-13.00	-54.39
610.06	-71.26	-68.68	-0.62	-1.96	-13.00	-58.26
1649.40	-20.99	-27.03	9.90	-3.86	-13.00	-7.99
2474.10	-31.51	-37.33	10.60	-4.78	-13.00	-18.51
3298.80	-35.06	-41.18	12.39	-6.27	-13.00	-22.06
4123.50	-37.12	-43.89	12.80	-6.03	-13.00	-24.12
4948.20	-46.48	-52.47	12.80	-6.81	-13.00	-33.48
5772.90	-39.44	7.38	13.05	-7.38	-13.00	-26.44

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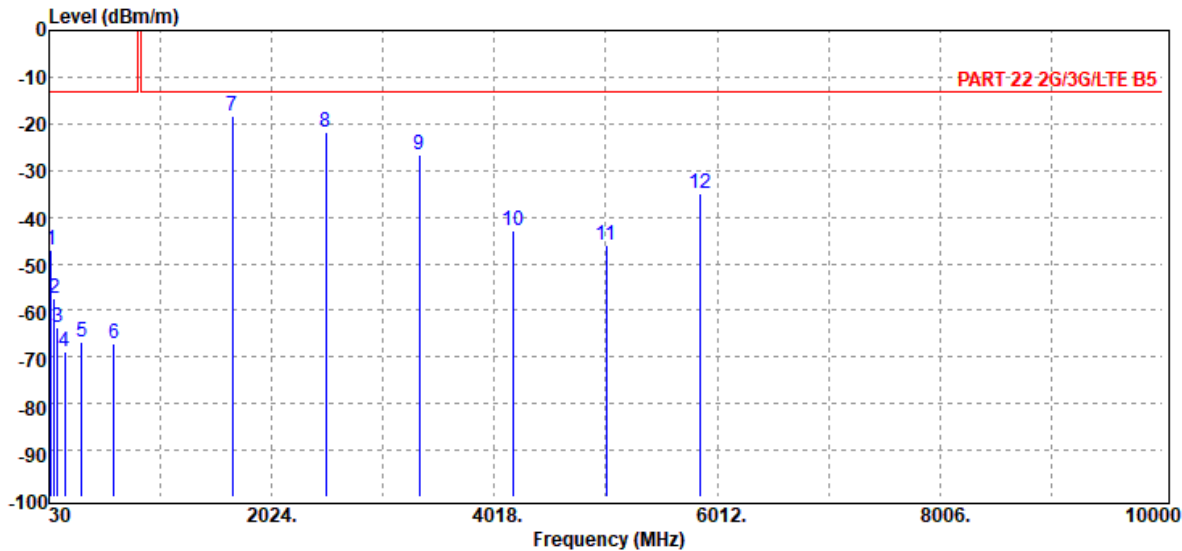
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Report Number :ER-2020-50029  
Operation Mode :LTE B5  
Test Mode :Tx CH Mid  
EUT Pol :H Plane  
Test Frequency :836.5 MHz

Test Date :2020-05-27  
Temp./Humi. :24.6/66  
Antenna Pol. :VERTICAL  
Engineer :Nick



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
47.46	-46.92	-32.30	-14.02	-0.60	-13.00	-33.92
78.50	-57.44	-50.02	-6.58	-0.84	-13.00	-44.44
102.75	-63.84	-54.59	-8.29	-0.96	-13.00	-50.84
167.74	-68.99	-64.87	-2.86	-1.26	-13.00	-55.99
323.91	-66.65	-63.78	-1.20	-1.67	-13.00	-53.65
610.06	-67.02	-64.44	-0.62	-1.96	-13.00	-54.02
1673.00	-18.43	-24.48	9.95	-3.90	-13.00	-5.43
2509.50	-21.93	-27.85	10.74	-4.82	-13.00	-8.93
3346.00	-26.64	-33.67	12.68	-5.65	-13.00	-13.64
4182.50	-43.07	-49.53	12.80	-6.34	-13.00	-30.07
5019.00	-46.12	-51.72	12.45	-6.85	-13.00	-33.12
5855.50	-34.79	7.49	12.99	-7.49	-13.00	-21.79

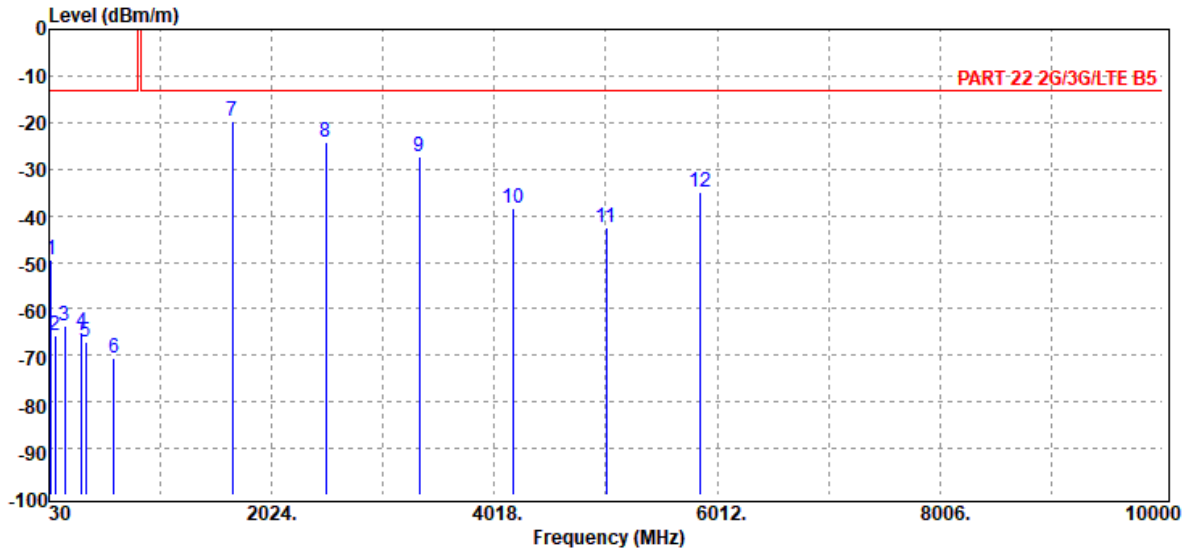
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Report Number :ER-2020-50029  
Operation Mode :LTE B5  
Test Mode :Tx CH Mid  
EUT Pol :H Plane  
Test Frequency :836.5 MHz

Test Date :2020-05-27  
Temp./Humi. :24.6/66  
Antenna Pol. :HORIZONTAL  
Engineer :Nick



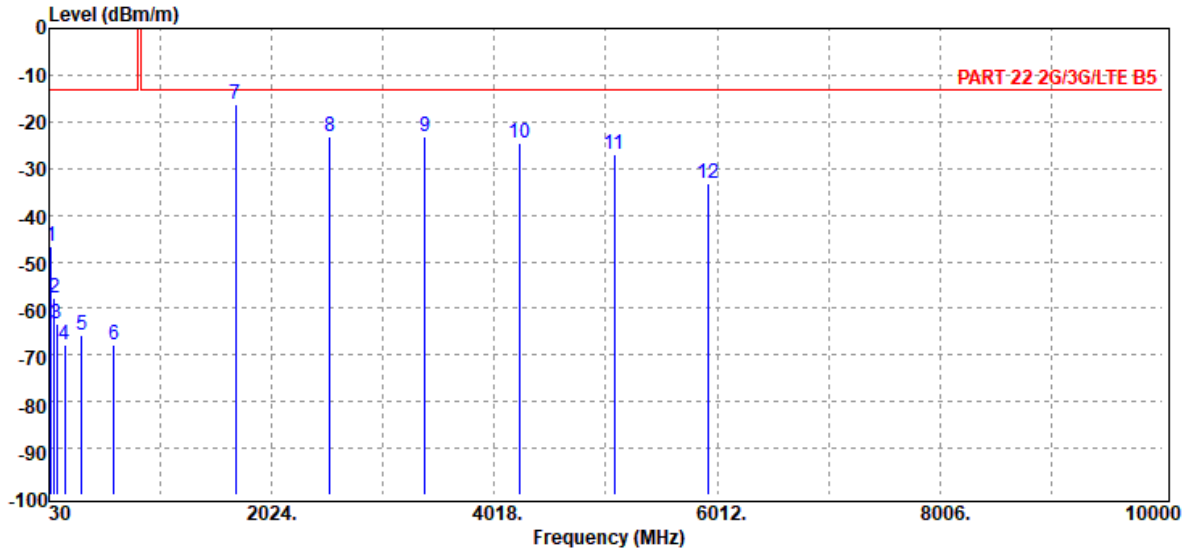
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
47.46	-49.63	-35.01	-14.02	-0.60	-13.00	-36.63
86.26	-65.69	-58.15	-6.66	-0.88	-13.00	-52.69
167.74	-63.68	-59.56	-2.86	-1.26	-13.00	-50.68
323.91	-64.88	-62.01	-1.20	-1.67	-13.00	-51.88
354.95	-67.07	-63.68	-1.62	-1.77	-13.00	-54.07
610.06	-70.64	-68.06	-0.62	-1.96	-13.00	-57.64
1673.00	-19.84	-25.89	9.95	-3.90	-13.00	-6.84
2509.50	-24.34	-30.26	10.74	-4.82	-13.00	-11.34
3346.00	-27.29	-34.32	12.68	-5.65	-13.00	-14.29
4182.50	-38.35	-44.81	12.80	-6.34	-13.00	-25.35
5019.00	-42.66	-48.26	12.45	-6.85	-13.00	-29.66
5855.50	-35.00	7.49	12.99	-7.49	-13.00	-22.00

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Report Number :ER-2020-50029  
Operation Mode :LTE B5  
Test Mode :Tx CH High  
EUT Pol :H Plane  
Test Frequency :848.3 MHz

Test Date :2020-05-27  
Temp./Humi. :24.6/66  
Antenna Pol. :VERTICAL  
Engineer :Nick


Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
47.46	-46.79	-32.17	-14.02	-0.60	-13.00	-33.79
78.50	-57.81	-50.39	-6.58	-0.84	-13.00	-44.81
100.81	-63.22	-54.03	-8.24	-0.95	-13.00	-50.22
167.74	-67.96	-63.84	-2.86	-1.26	-13.00	-54.96
323.91	-65.73	-62.86	-1.20	-1.67	-13.00	-52.73
610.06	-67.77	-65.19	-0.62	-1.96	-13.00	-54.77
1696.60	-16.31	-22.37	9.99	-3.93	-13.00	-3.31
2544.90	-23.18	-29.20	10.88	-4.86	-13.00	-10.18
3393.20	-23.32	-31.00	12.70	-5.02	-13.00	-10.32
4241.50	-24.41	-30.89	12.80	-6.32	-13.00	-11.41
5089.80	-27.07	-32.49	12.20	-6.78	-13.00	-14.07
5938.10	-33.20	7.66	12.90	-7.66	-13.00	-20.20

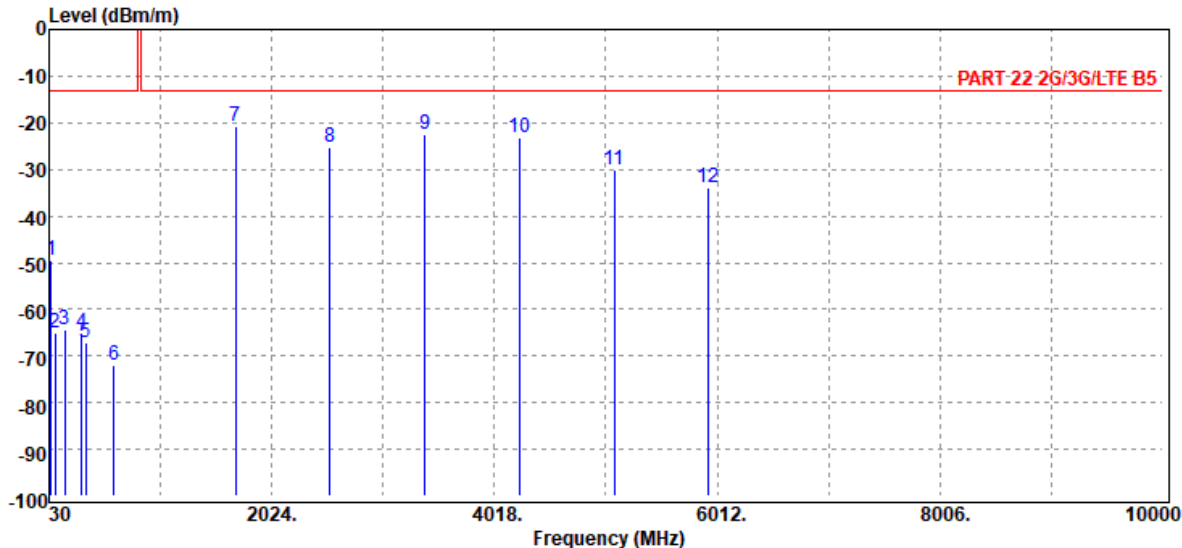
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Report Number :ER-2020-50029  
Operation Mode :LTE B5  
Test Mode :Tx CH High  
EUT Pol :H Plane  
Test Frequency :848.3 MHz

Test Date :2020-05-27  
Temp./Humi. :24.6/66  
Antenna Pol. :HORIZONTAL  
Engineer :Nick


Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
47.46	-49.61	-34.99	-14.02	-0.60	-13.00	-36.61
86.26	-64.91	-57.37	-6.66	-0.88	-13.00	-51.91
167.74	-64.42	-60.30	-2.86	-1.26	-13.00	-51.42
323.91	-65.05	-62.18	-1.20	-1.67	-13.00	-52.05
354.95	-67.30	-63.91	-1.62	-1.77	-13.00	-54.30
610.06	-72.08	-69.50	-0.62	-1.96	-13.00	-59.08
1696.60	-20.59	-26.65	9.99	-3.93	-13.00	-7.59
2544.90	-25.35	-31.37	10.88	-4.86	-13.00	-12.35
3393.20	-22.58	-30.26	12.70	-5.02	-13.00	-9.58
4241.50	-23.07	-29.55	12.80	-6.32	-13.00	-10.07
5089.80	-30.25	-35.67	12.20	-6.78	-13.00	-17.25
5938.10	-33.92	7.66	12.90	-7.66	-13.00	-20.92

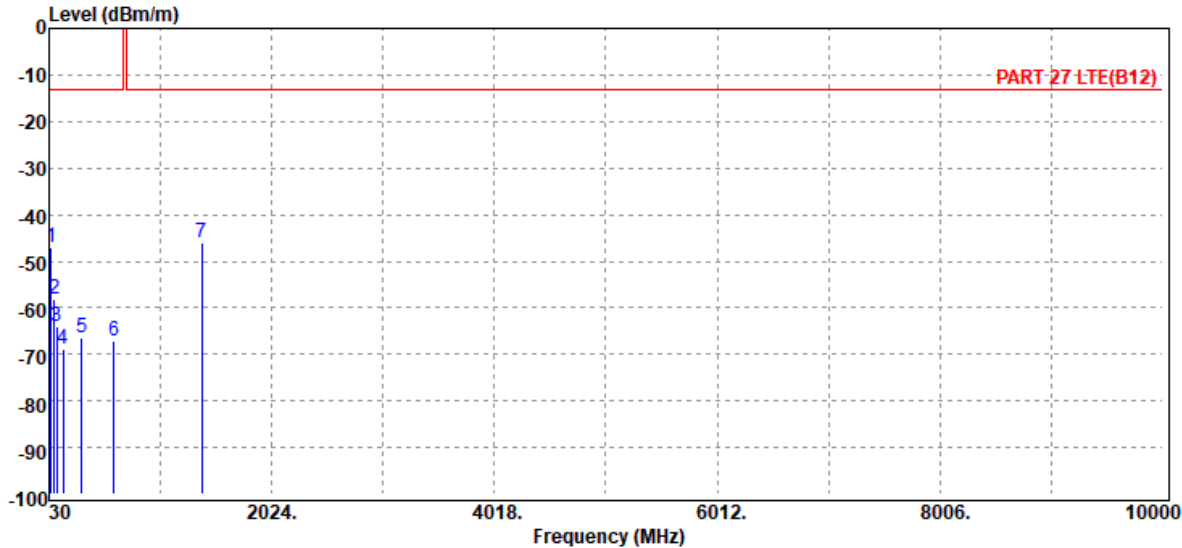
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Report Number :ER-2020-50029  
Operation Mode :LTE B12  
Test Mode :Tx CH Low  
EUT Pol :H Plane  
Test Frequency :699.7 MHz

Test Date :2020-05-27  
Temp./Humi. :24.6/66  
Antenna Pol. :VERTICAL  
Engineer :Nick



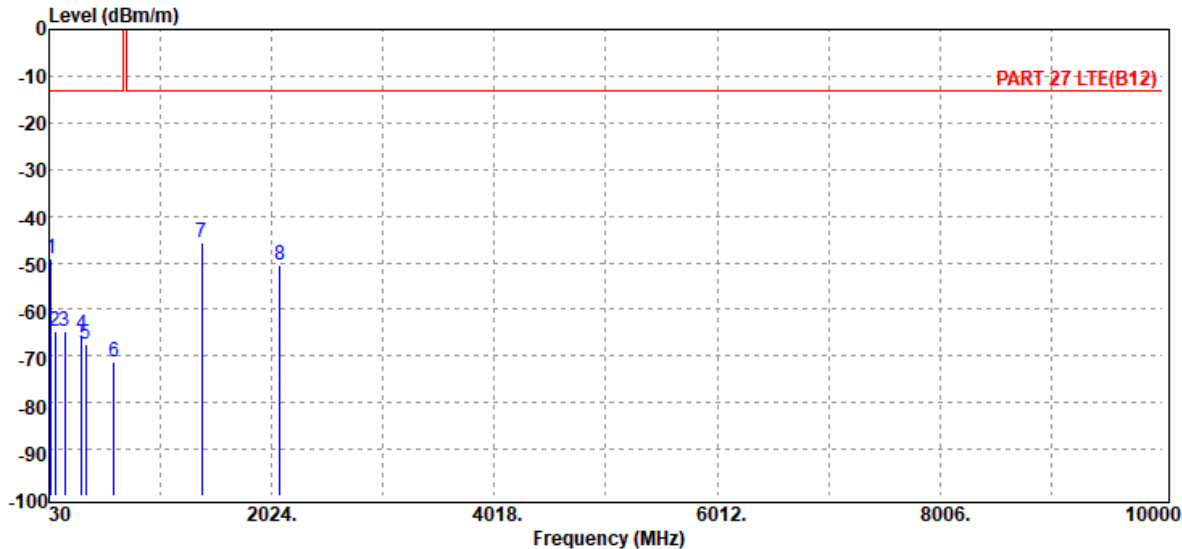
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
47.46	-46.96	-32.34	-14.02	-0.60	-13.00	-33.96
76.56	-58.10	-50.66	-6.60	-0.84	-13.00	-45.10
100.81	-64.18	-54.99	-8.24	-0.95	-13.00	-51.18
159.01	-68.93	-63.82	-3.90	-1.21	-13.00	-55.93
323.91	-66.56	-63.69	-1.20	-1.67	-13.00	-53.56
610.06	-67.05	-64.47	-0.62	-1.96	-13.00	-54.05
1399.40	-45.98	-50.30	7.89	-3.57	-13.00	-32.98

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Report Number :ER-2020-50029  
Operation Mode :LTE B12  
Test Mode :Tx CH Low  
EUT Pol :H Plane  
Test Frequency :699.7 MHz

Test Date :2020-05-27  
Temp./Humi. :24.6/66  
Antenna Pol. :HORIZONTAL  
Engineer :Nick


Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
47.46	-49.28	-34.66	-14.02	-0.60	-13.00	-36.28
86.26	-64.54	-57.00	-6.66	-0.88	-13.00	-51.54
173.56	-64.68	-61.19	-2.24	-1.25	-13.00	-51.68
323.91	-65.56	-62.69	-1.20	-1.67	-13.00	-52.56
354.95	-67.53	-64.14	-1.62	-1.77	-13.00	-54.53
610.06	-71.43	-68.85	-0.62	-1.96	-13.00	-58.43
1399.40	-45.76	-50.08	7.89	-3.57	-13.00	-32.76
2099.10	-50.39	-55.90	9.91	-4.40	-13.00	-37.39

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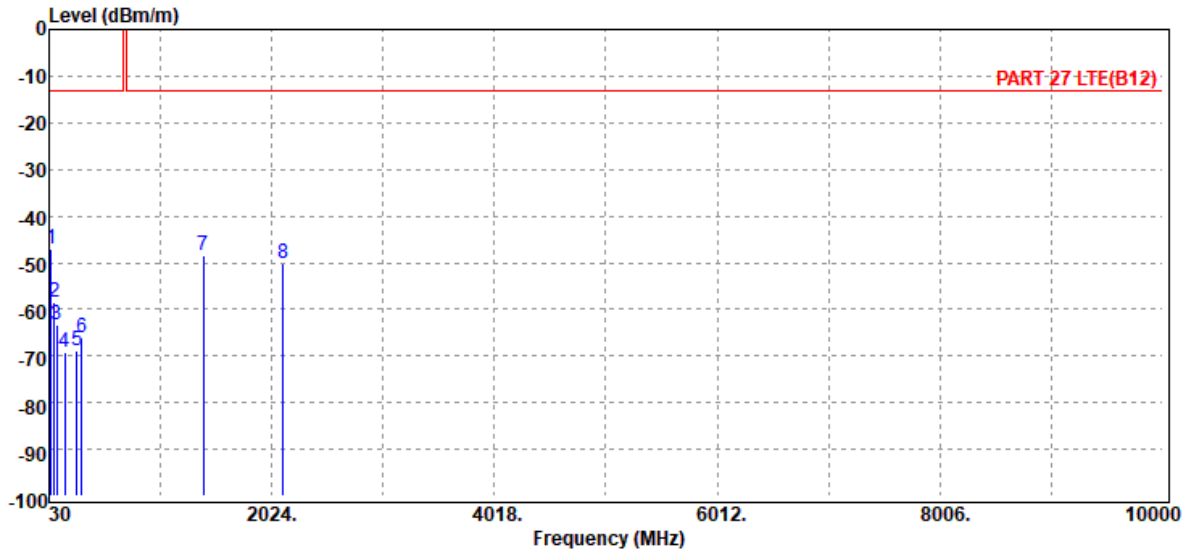
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Report Number :ER-2020-50029  
 Operation Mode :LTE B12  
 Test Mode :Tx CH Mid  
 EUT Pol :H Plane  
 Test Frequency :707.5 MHz

Test Date :2020-05-27  
 Temp./Humi. :24.6/66  
 Antenna Pol. :VERTICAL  
 Engineer :Nick



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
47.46	-47.00	-32.38	-14.02	-0.60	-13.00	-34.00
78.50	-58.35	-50.93	-6.58	-0.84	-13.00	-45.35
100.81	-63.43	-54.24	-8.24	-0.95	-13.00	-50.43
167.74	-69.25	-65.13	-2.86	-1.26	-13.00	-56.25
275.41	-68.93	-65.66	-1.73	-1.54	-13.00	-55.93
323.91	-65.95	-63.08	-1.20	-1.67	-13.00	-52.95
1415.00	-48.30	-52.70	7.99	-3.59	-13.00	-35.30
2122.50	-50.03	-55.27	9.67	-4.43	-13.00	-37.03

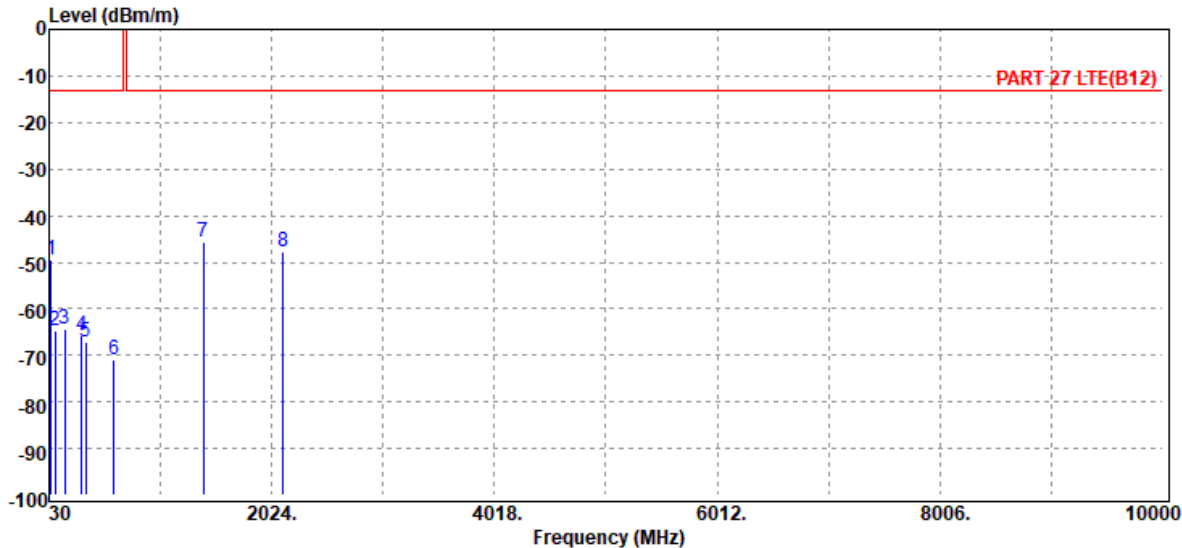
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Report Number :ER-2020-50029  
Operation Mode :LTE B12  
Test Mode :Tx CH Mid  
EUT Pol :H Plane  
Test Frequency :707.5 MHz

Test Date :2020-05-27  
Temp./Humi. :24.6/66  
Antenna Pol. :HORIZONTAL  
Engineer :Nick



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
47.46	-49.50	-34.88	-14.02	-0.60	-13.00	-36.50
86.26	-64.78	-57.24	-6.66	-0.88	-13.00	-51.78
167.74	-64.50	-60.38	-2.86	-1.26	-13.00	-51.50
323.91	-65.72	-62.85	-1.20	-1.67	-13.00	-52.72
354.95	-67.04	-63.65	-1.62	-1.77	-13.00	-54.04
610.06	-70.98	-68.40	-0.62	-1.96	-13.00	-57.98
1415.00	-45.81	-50.21	7.99	-3.59	-13.00	-32.81
2122.50	-47.85	-53.09	9.67	-4.43	-13.00	-34.85

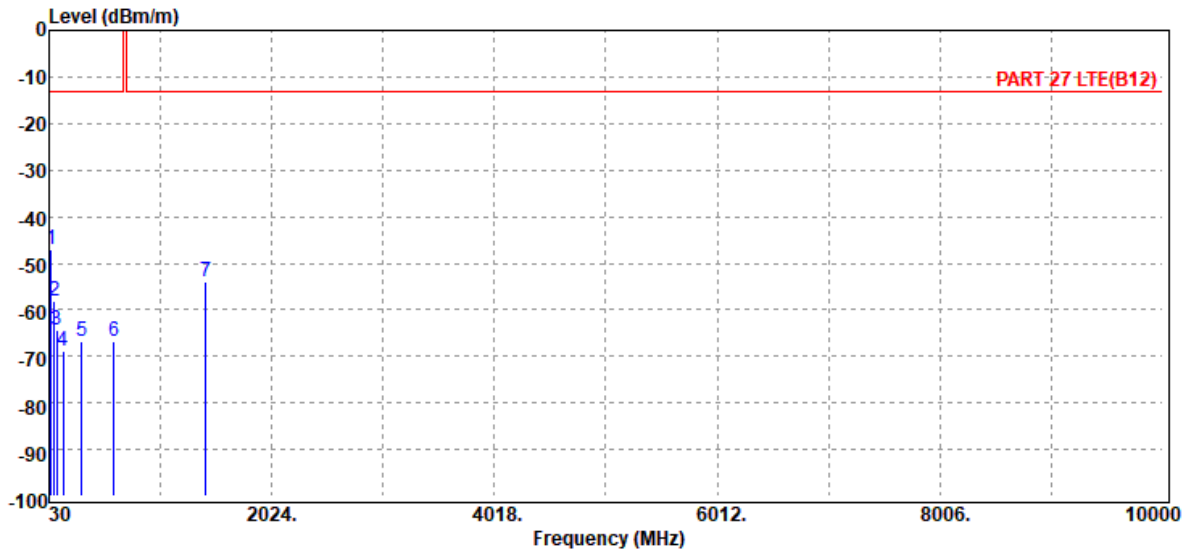
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Report Number :ER-2020-50029  
Operation Mode :LTE B12  
Test Mode :Tx CH High  
EUT Pol :H Plane  
Test Frequency :715.3 MHz

Test Date :2020-05-27  
Temp./Humi. :24.6/66  
Antenna Pol. :VERTICAL  
Engineer :Nick



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
47.46	-47.04	-32.42	-14.02	-0.60	-13.00	-34.04
78.50	-58.28	-50.86	-6.58	-0.84	-13.00	-45.28
100.81	-64.32	-55.13	-8.24	-0.95	-13.00	-51.32
159.01	-68.82	-63.71	-3.90	-1.21	-13.00	-55.82
323.91	-66.65	-63.78	-1.20	-1.67	-13.00	-53.65
610.06	-66.93	-64.35	-0.62	-1.96	-13.00	-53.93
1430.60	-54.11	-58.59	8.08	-3.60	-13.00	-41.11

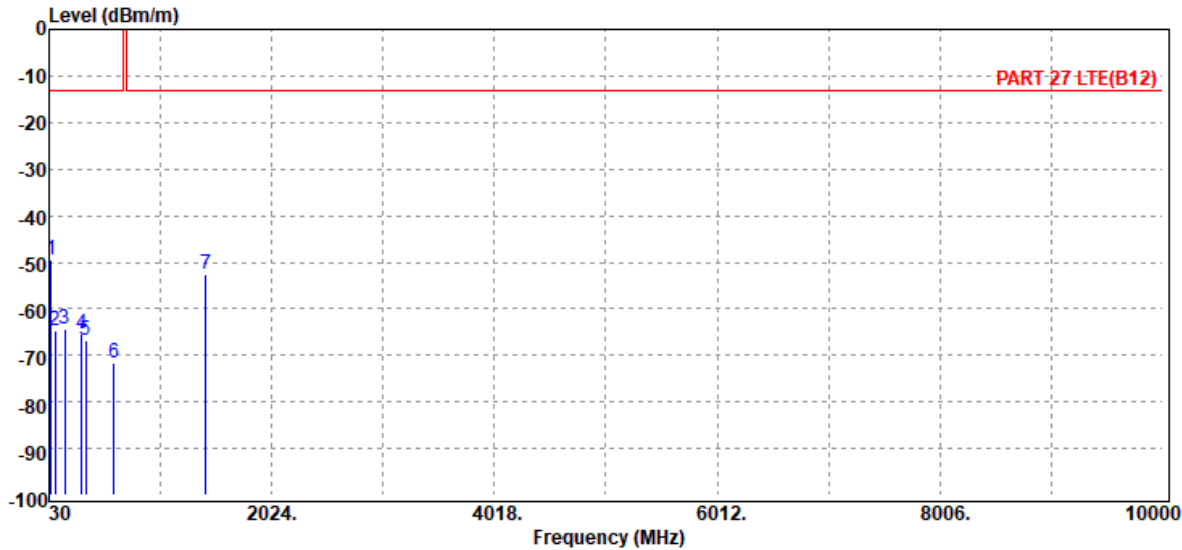
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Operation Mode :LTE B12  
Test Mode :Tx CH High  
EUT Pol :H Plane  
Test Frequency :715.3 MHz

Test Date :2020-05-27  
Temp./Humi. :24.6/66  
Antenna Pol. :HORIZONTAL  
Engineer :Nick



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
47.46	-49.31	-34.69	-14.02	-0.60	-13.00	-36.31
86.26	-64.78	-57.24	-6.66	-0.88	-13.00	-51.78
167.74	-64.32	-60.20	-2.86	-1.26	-13.00	-51.32
323.91	-65.33	-62.46	-1.20	-1.67	-13.00	-52.33
354.95	-66.89	-63.50	-1.62	-1.77	-13.00	-53.89
610.06	-71.51	-68.93	-0.62	-1.96	-13.00	-58.51
1430.60	-52.66	-57.14	8.08	-3.60	-13.00	-39.66

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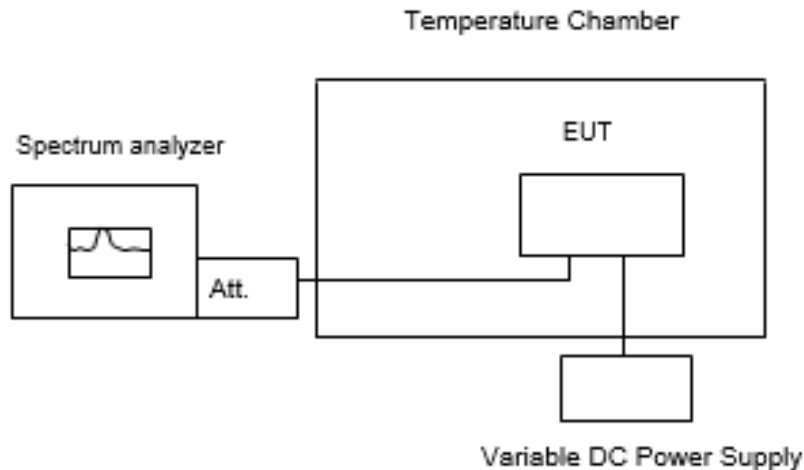


## 10 FREQUENCY STABILITY MEASUREMENT

### 10.1 Standard Applicabl

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

### 10.2 Test Set-up



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

### 10.3 Measurement Procedure

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

Set chamber temperature to 25°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation (+/- 15%) and endpoint as declared by the manufacturer, record the maximum frequency change.

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## 10.4 Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/21/2020	04/20/2021
Radio Communication Analyzer	Anritsu	MT8820C	6200995019	04/01/2020	03/31/2021
DC Power Supply	Agilent	E3640A	MY40005907	10/22/2019	10/21/2020
Temperature Chamber	TERCHY	MHG-120LF	911009	05/20/2020	05/19/2021
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2020	01/01/2021
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2020	01/01/2021
Splitter	RF-LAMBAD	RFLT2W1G1 8G	11-JSPF412- 018	01/02/2020	01/01/2021

## 10.5 Measurement Result

**Note:** The battery is rated 36V dc.

WCDMA II Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm				
Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit (Hz)
FREQUENCY ERROR vs. VOLTAGE				
42	20	1880.000008	8	4700
36	20	1880.000012	12	4700
30	20	1879.999995	-5	4700
30 (End point)	20	1880.000003	3	4700
FREQUENCY ERROR vs. Temp.				
36	50	1880.000004	4	4700
36	40	1879.999991	-9	4700
36	30	1879.999986	-14	4700
36	20	1880.000006	6	4700
36	10	1880.000002	2	4700
36	0	1879.999997	-3	4700
36	-10	1879.999995	-5	4700
36	-20	1880.000007	7	4700
36	-30	1879.999999	-1	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				
42	20	836.600005	5	2091
36	20	836.599998	-2	2091
30	20	836.599992	-8	2091
30 (End point)	20	836.600001	1	2091
FREQUENCY ERROR vs. Temp.				
36	50	836.600007	7	2091
36	40	836.599998	-2	2091
36	30	836.599997	-3	2091
36	20	836.600006	6	2091
36	10	836.599998	-2	2091
36	0	836.599992	-8	2091
36	-10	836.600005	5	2091
36	-20	836.599997	-3	2091
36	-30	836.600001	1	2091
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				
42	25	1880.000009	9	4700
36	25	1879.999998	-2	4700
30	25	1880.000015	15	4700
30 (End Point)	25	1879.999993	-7	4700
Freq. ERROR vs. Temp.				
36	-30	1880.000006	6	4700
36	-20	1879.999998	-2	4700
36	-10	1879.999992	-8	4700
36	0	1880.000009	9	4700
36	10	1879.999989	-11	4700
36	20	1880.000003	3	4700
36	30	1879.999993	-7	4700
36	40	1880.000005	5	4700
36	50	1880.000002	2	4700

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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					
42	25	1732.499993	-7	4331	
36	25	1732.500001	1	4331	
30	25	1732.499991	-9	4331	
30 (End Point)	25	1732.500003	3	4331	
Freq. ERROR vs. Temp.					
36	-30	1732.499988	-12	4331	
36	-20	1732.500004	4	4331	
36	-10	1732.500005	5	4331	
36	0	1732.499994	-6	4331	
36	10	1732.499992	-8	4331	
36	20	1732.500001	1	4331	
36	30	1732.500006	6	4331	
36	40	1732.499995	-5	4331	
36	50	1732.499992	-8	4331	
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					
42	25	836.500010	10	2091	
36	25	836.499994	-6	2091	
30	25	836.500003	3	2091	
30 (End Point)	25	836.500007	7	2091	
Freq. ERROR vs. Temp.					
36	-30	836.499992	-8	2091	
36	-20	836.499994	-6	2091	
36	-10	836.500001	1	2091	
36	0	836.500006	6	2091	
36	10	836.499986	-14	2091	
36	20	836.500006	6	2091	
36	30	836.500001	1	2091	
36	40	836.499992	-8	2091	
36	50	836.499997	-3	2091	

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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					
42	25	707.499997	-3	1769	
36	25	707.499992	-8	1769	
30	25	707.499995	-5	1769	
30 (End Point)	25	707.500004	4	1769	
Freq. ERROR vs. Temp.					
36	-30	707.499991	-9	1769	
36	-20	707.500002	2	1769	
36	-10	707.500006	6	1769	
36	0	707.500001	1	1769	
36	10	707.500005	5	1769	
36	20	707.499992	-8	1769	
36	30	707.499989	-11	1769	
36	40	707.500012	12	1769	
36	50	707.499990	-10	1769	

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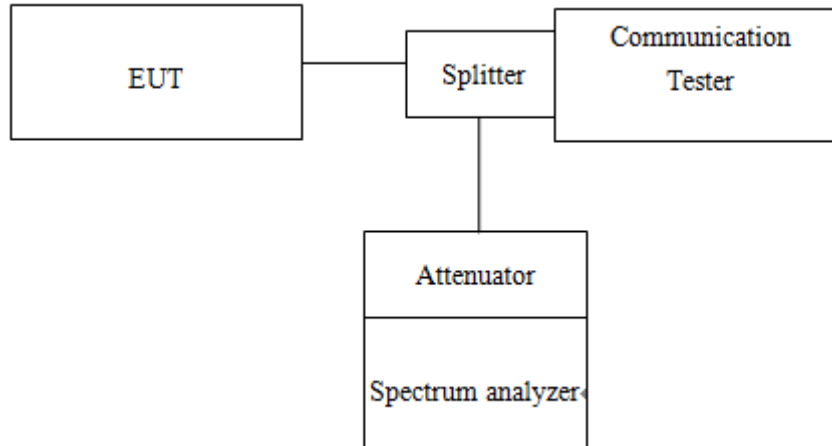
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## 11 PEAK TO AVERAGE RATIO

### 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.
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/21/2020	04/20/2021
Radio Communication Analyzer	Anritsu	MT8820C	6200995019	04/01/2020	03/31/2021
DC Power Supply	Agilent	E3640A	MY40005907	10/22/2019	10/21/2020
Temperature Chamber	TERCHY	MHG-120LF	911009	05/20/2020	05/19/2021
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2020	01/01/2021
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2020	01/01/2021
Splitter	RF-LAMBAD	RFLT2W1G18G	11-JSPF412-018	01/02/2020	01/01/2021

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## 11.5 Measurement Result

Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA II	HSDPA II	HSUPA II
1852.4	9262	3.04	4.00	3.91
1880	9400	3.52	4.10	4.04
1907.6	9538	3.21	3.85	4.16
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA V	HSDPA V	HSUPA V
826.4	4132	3.45	4.51	4.12
836.6	4183	3.65	4.57	4.50
846.6	4233	3.11	4.42	4.24

LTE BAND 2							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
1850.7	18607	6.03	13	1851.5	18615	6.04	13
1880.0	18900	6.39	13	1880.0	18900	6.36	13
1909.3	19193	6.04	13	1908.5	19185	6.16	13

LTE BAND 2							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
1852.5	18625	5.92	13	1855.0	18650	5.93	13
1880.0	18900	6.25	13	1880.0	18900	6.23	13
1907.5	19175	6.18	13	1905.0	19150	6.26	13

LTE BAND 2							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
1857.5	18675	6.28	13	1860.0	18700	6.58	13
1880.0	18900	6.27	13	1880.0	18900	6.54	13
1902.5	19125	6.38	13	1900.0	19100	6.54	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)	
		16QAM	Limit			16QAM	Limit
1710.7	19957	6.57	13	1711.5	19965	6.37	13
1732.5	20175	6.50	13	1732.5	20175	6.53	13
1754.3	20393	6.50	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)	
		16QAM	Limit			16QAM	Limit
1712.5	19957	6.33	13	1715.0	20000	6.44	13
1732.5	20175	6.26	13	1732.5	20175	6.33	13
1752.5	20375	6.30	13	1750.0	20350	6.58	13

LTE BAND 4							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
1717.5	20025	6.35	13	1720.0	20050	6.55	13
1732.5	20175	6.31	13	1732.5	20175	6.61	13
1747.5	20325	6.41	13	1745.0	20300	6.59	13

LTE BAND 5							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
824.7	20407	6.55	13	825.5	20415	6.43	13
836.5	20525	6.98	13	836.5	20525	6.79	13
848.3	20643	6.88	13	847.5	20635	6.59	13

LTE BAND 5							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
826.5	20425	6.36	13	829.0	20450	6.54	13
836.5	20525	6.68	13	836.5	20525	6.60	13
846.5	20625	6.43	13	844.0	20600	6.48	13

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LTE BAND 12							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
699.7	23017	6.47	13	700.5	23025	6.21	13
707.5	23095	6.43	13	707.5	23095	6.38	13
715.3	23173	6.72	13	714.5	23165	6.18	13

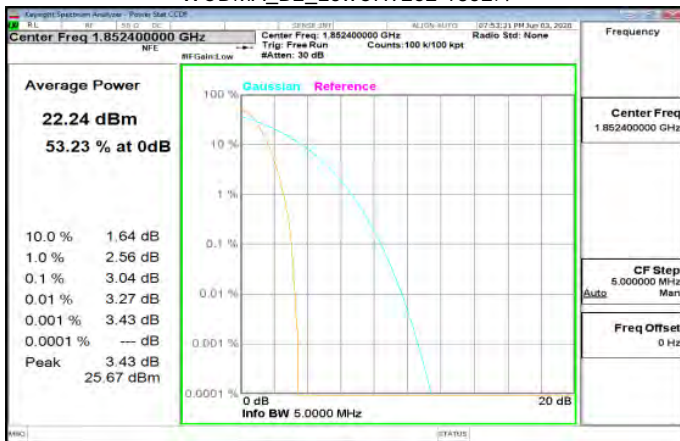
LTE BAND 12							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
701.5	23035	6.12	13	704.0	23060	6.35	13
707.5	23095	6.24	13	707.5	23095	6.35	13
713.5	23155	5.92	13	711.0	23130	6.10	13

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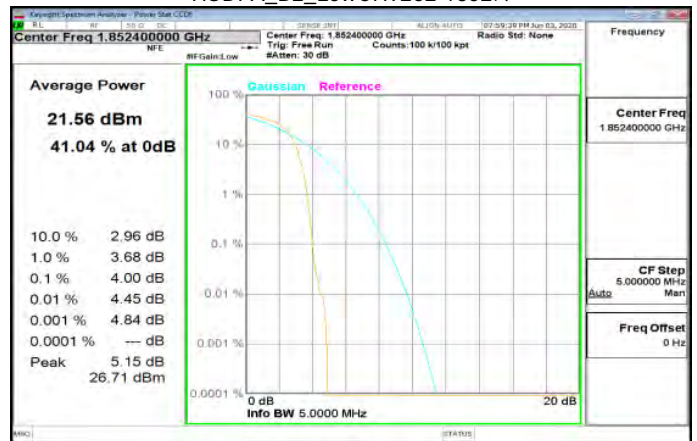
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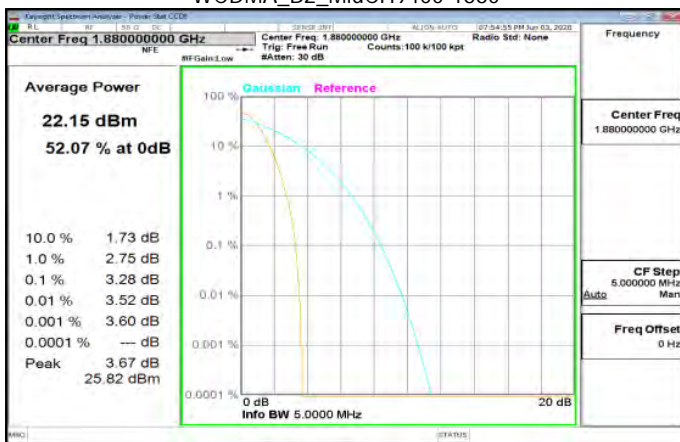
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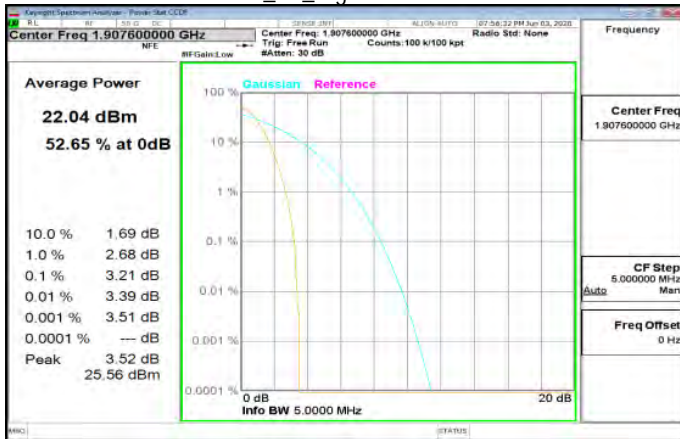
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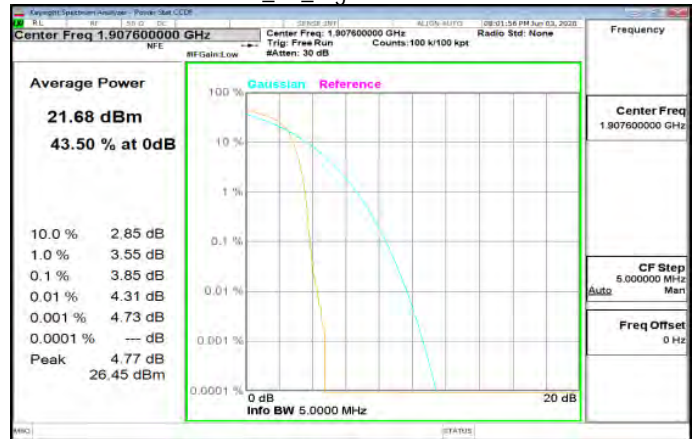
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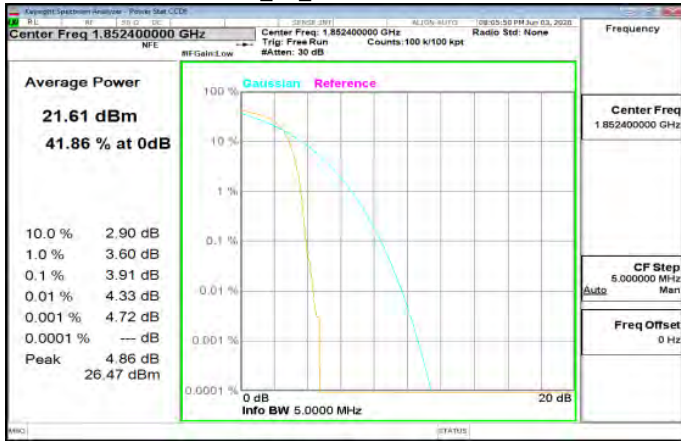


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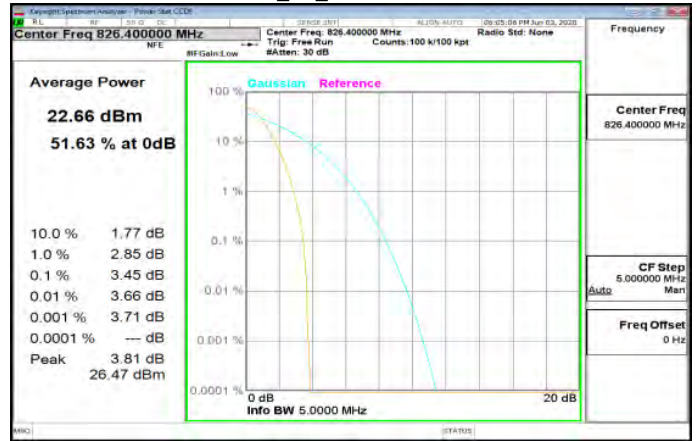
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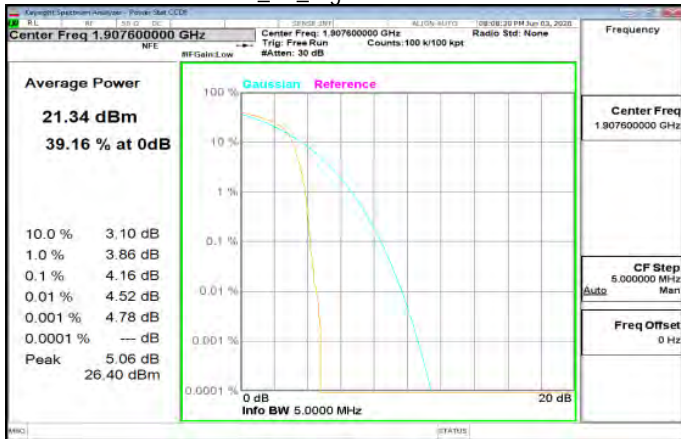
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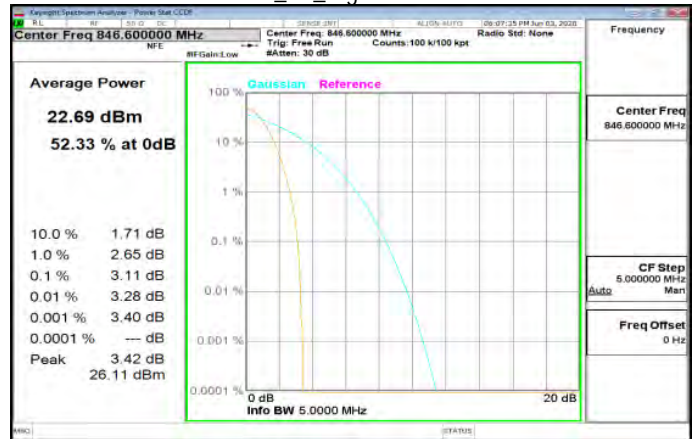
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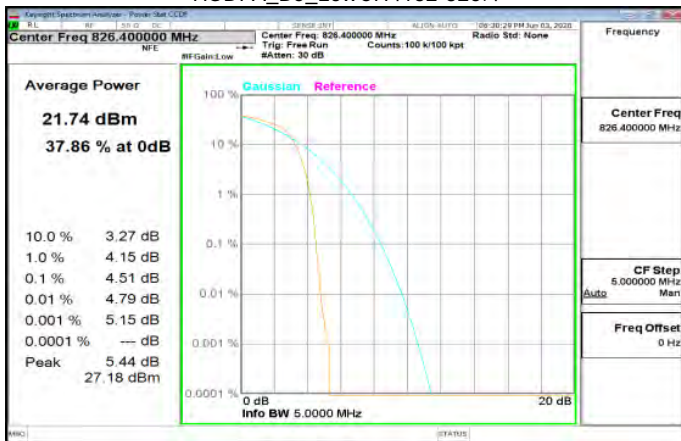
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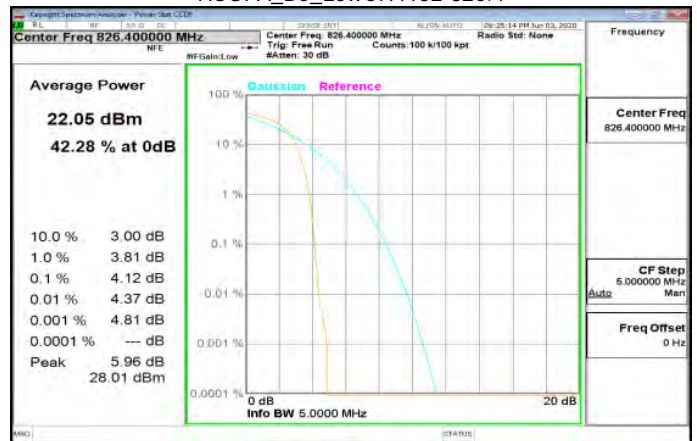
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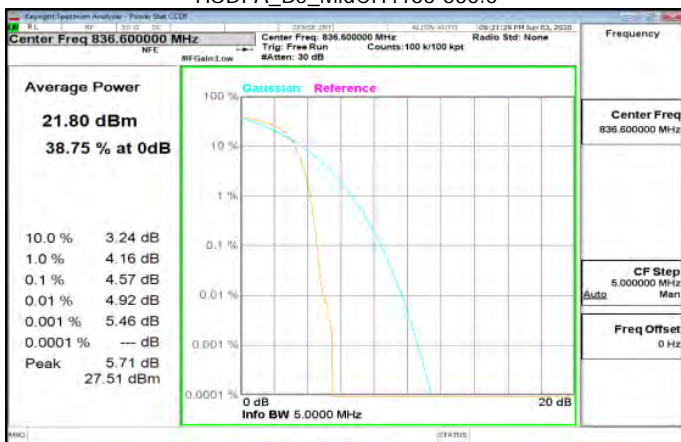
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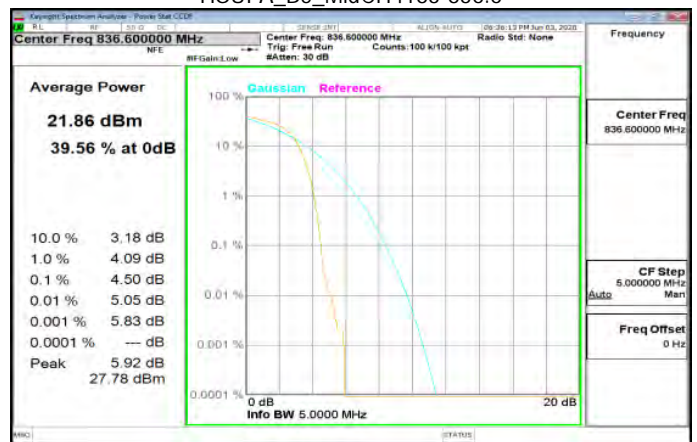
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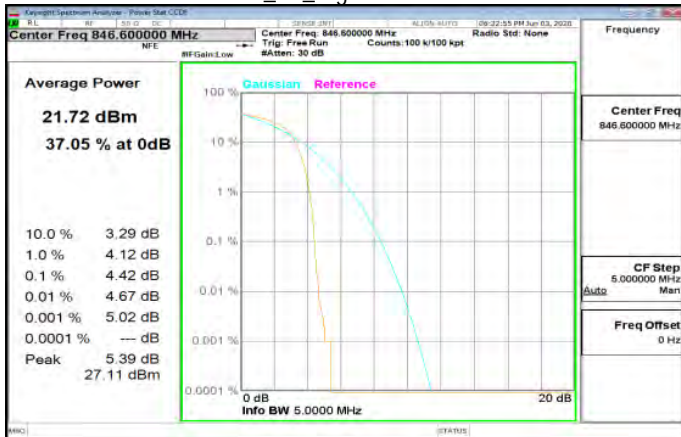
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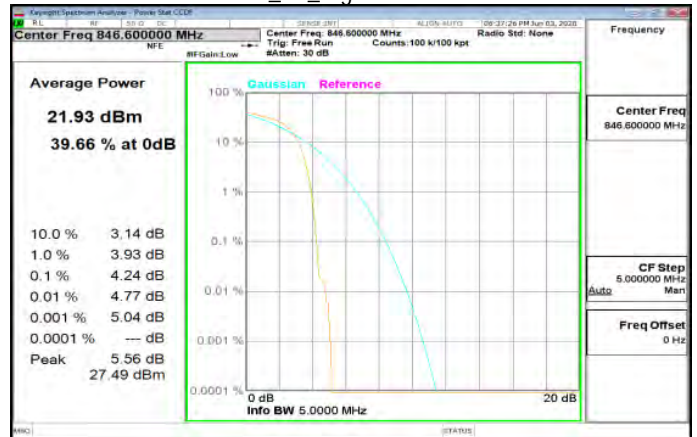
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HSDPA\_B5\_HighCH4233-846.6



HSUPA\_B5\_HighCH4233-846.6



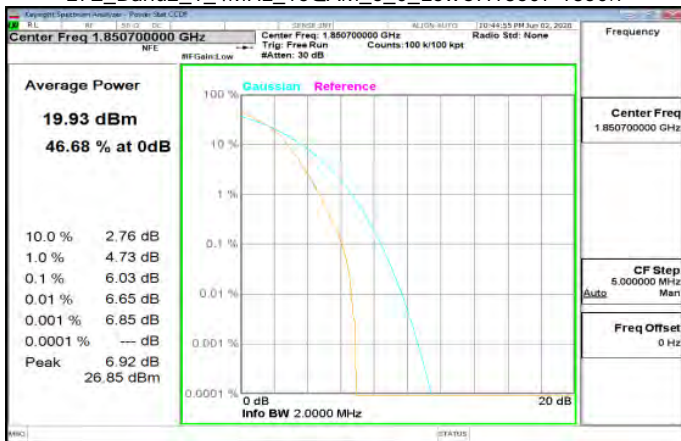
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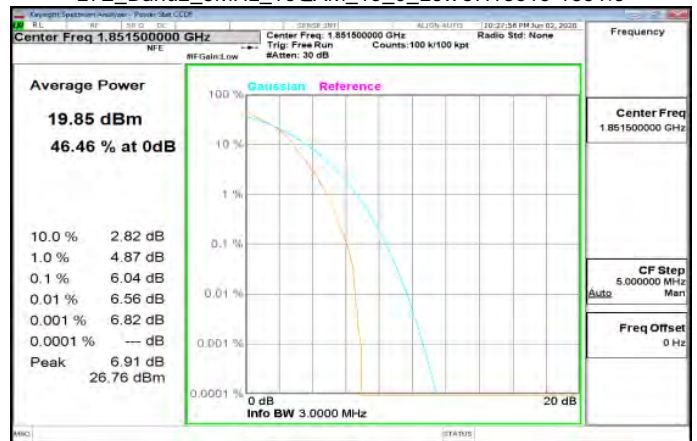
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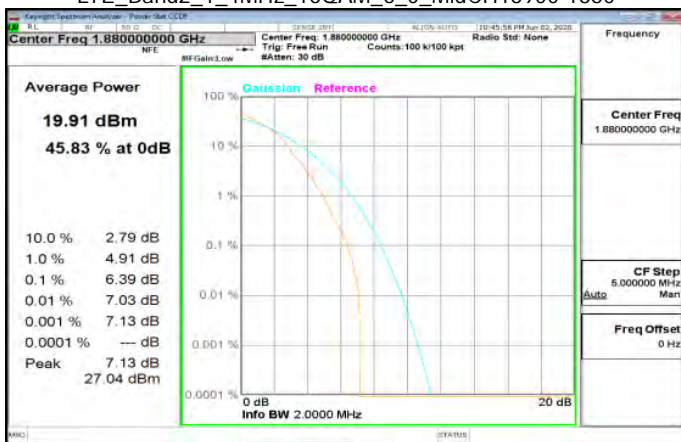
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LTE\_Band2\_3MHz\_16QAM\_15\_0\_LowCH18615-1851.5



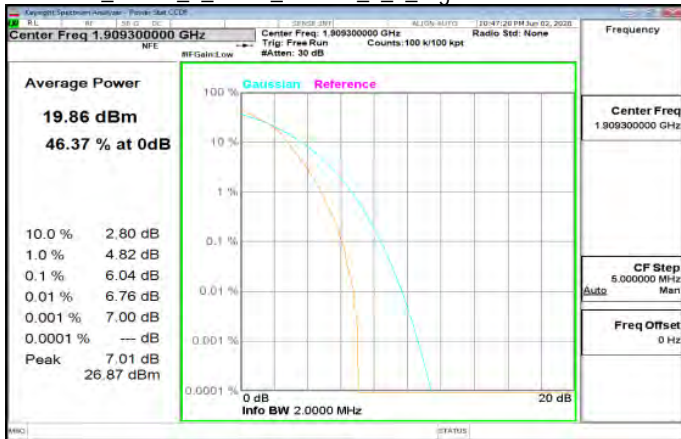
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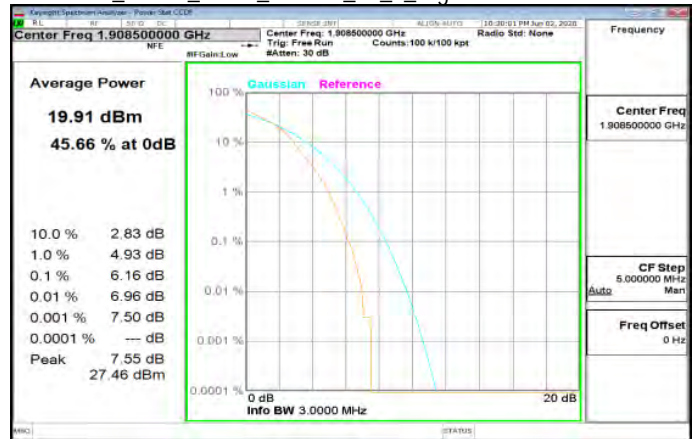
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LTE\_Band2\_3MHz\_16QAM\_15\_0\_HighCH19185-1908.5

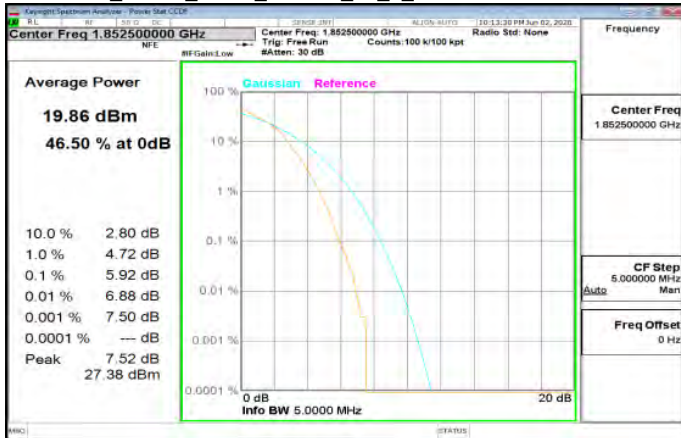


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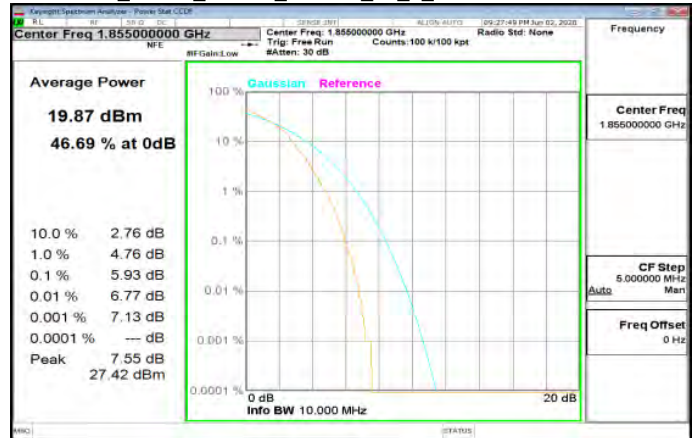
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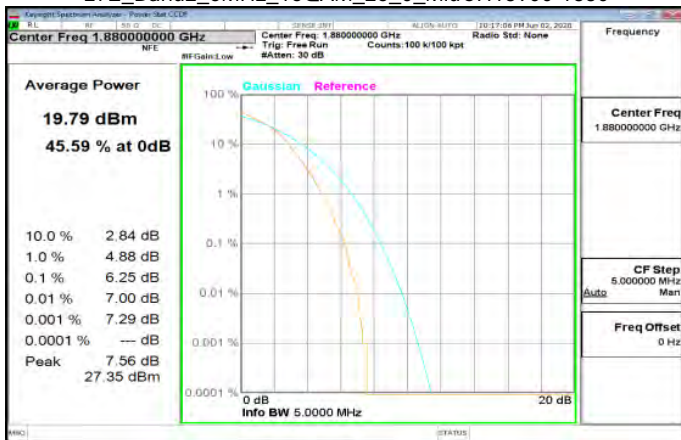
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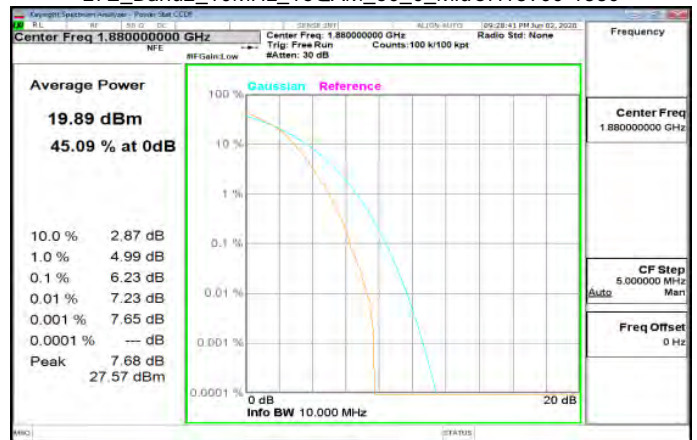
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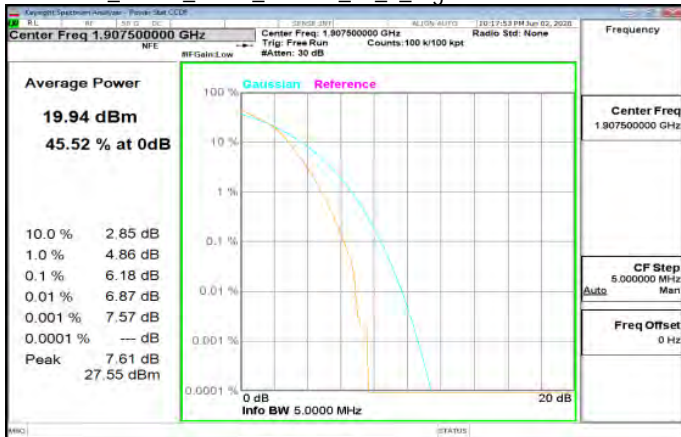
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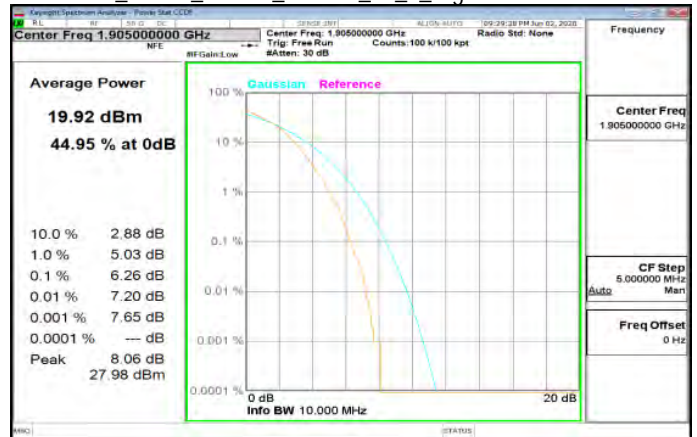
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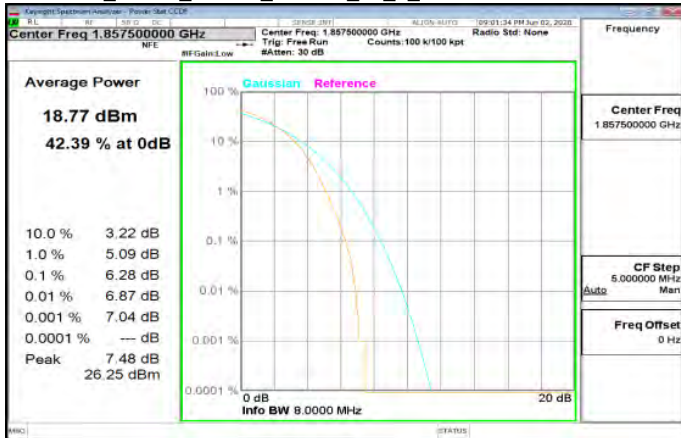
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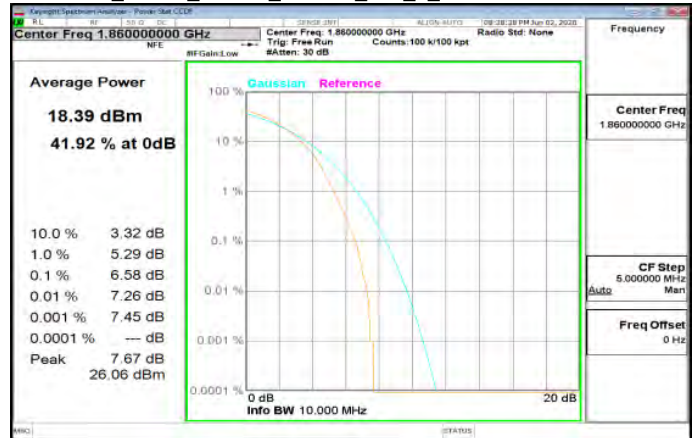
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LTE\_Band2\_15MHz\_16QAM\_75\_0\_LowCH18675-1857.5



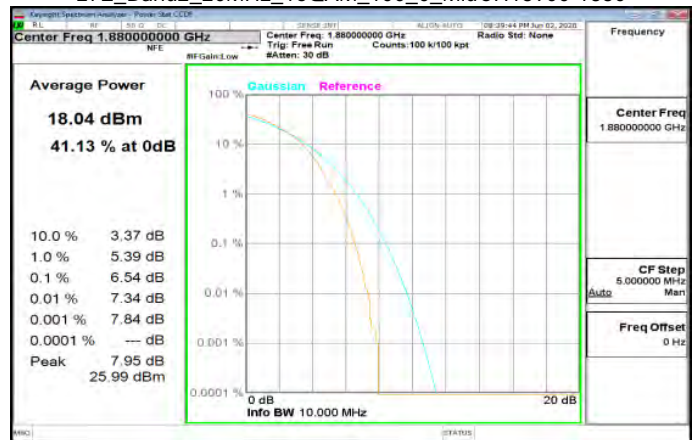
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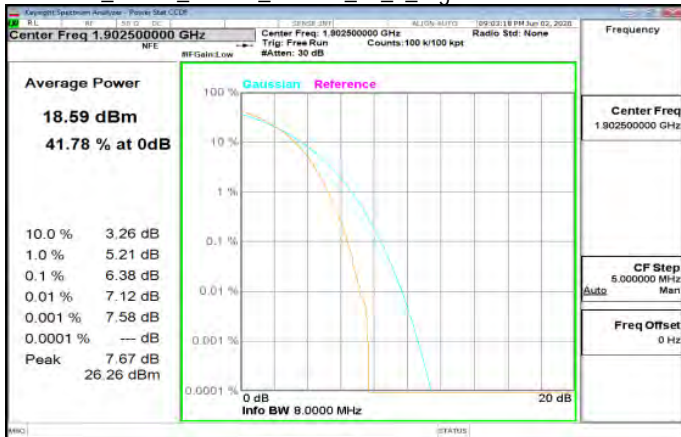
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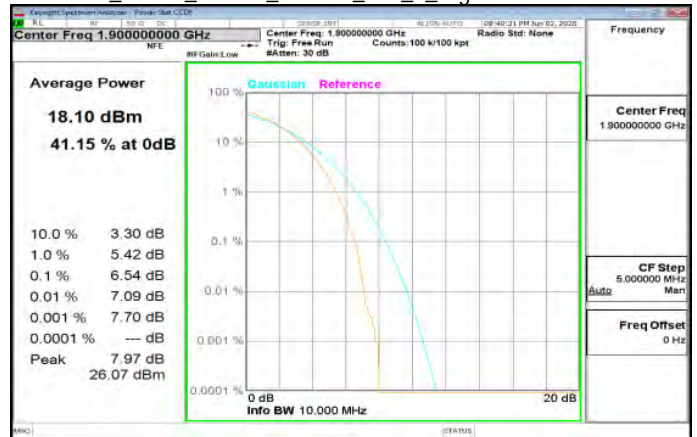
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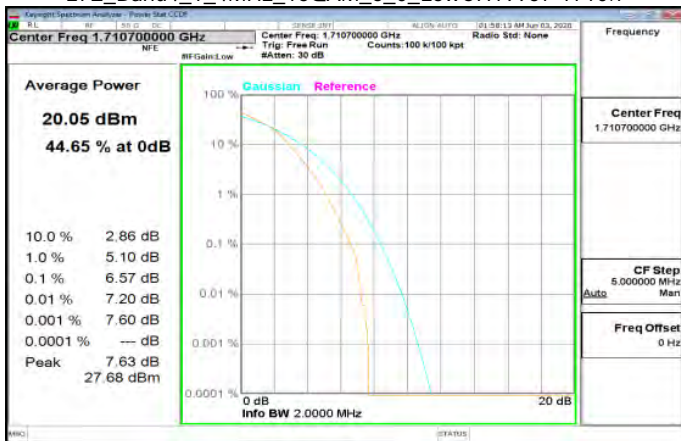


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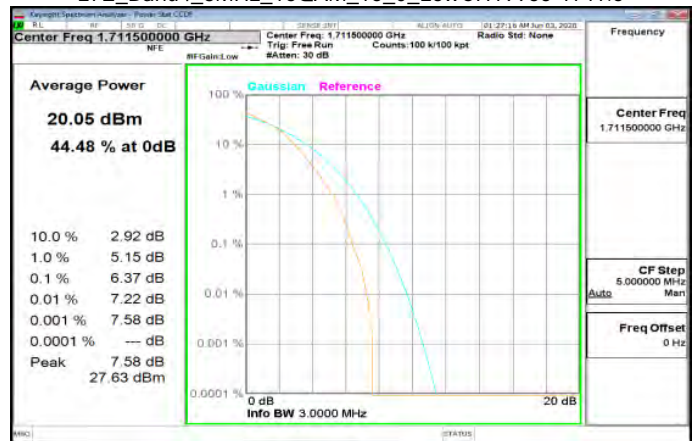
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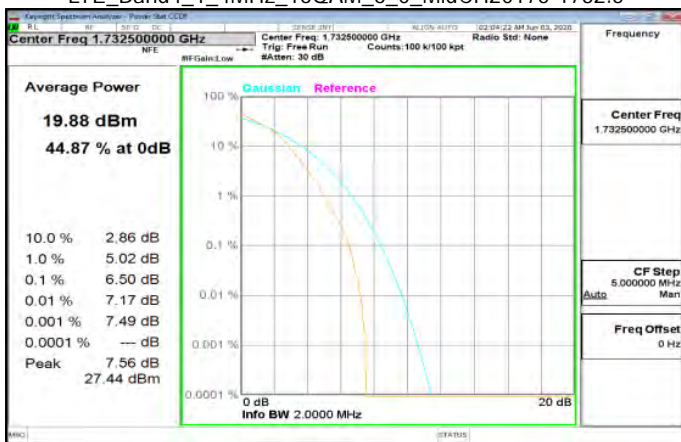
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LTE\_Band4\_3MHz\_16QAM\_15\_0\_LowCH19965-1711.5



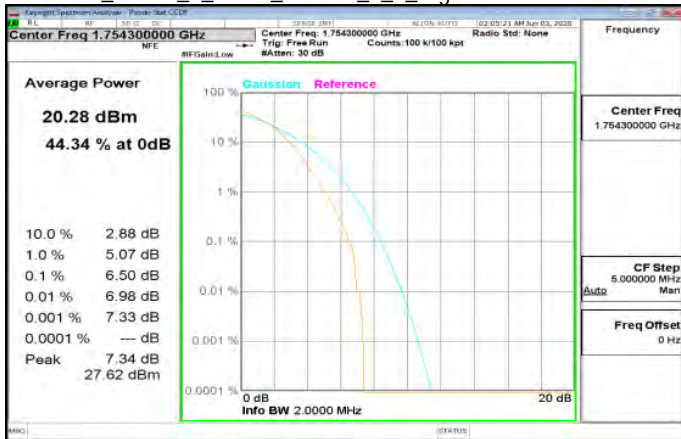
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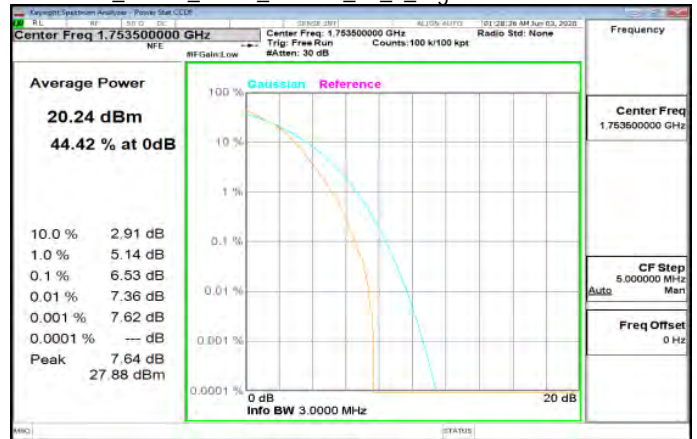
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LTE\_Band4\_1\_4MHz\_16QAM\_6\_0\_HighCH20393-1754.3



LTE\_Band4\_3MHz\_16QAM\_15\_0\_HighCH20385-1753.5



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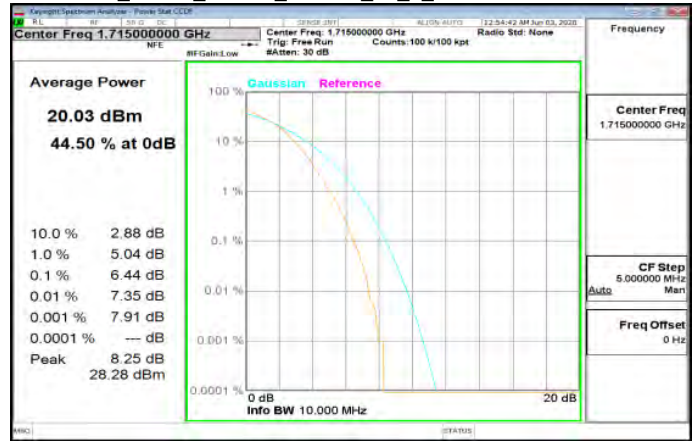
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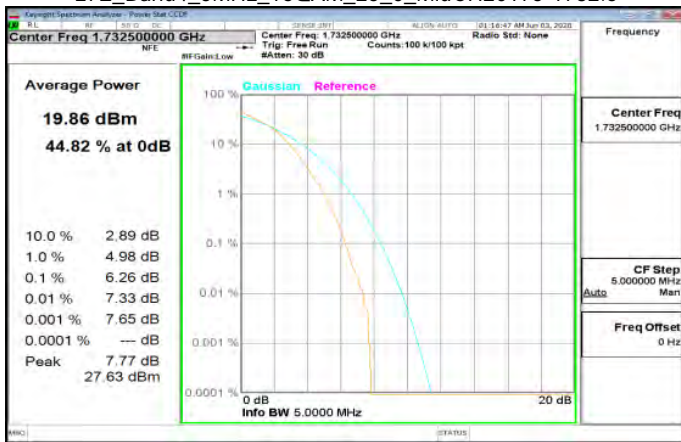
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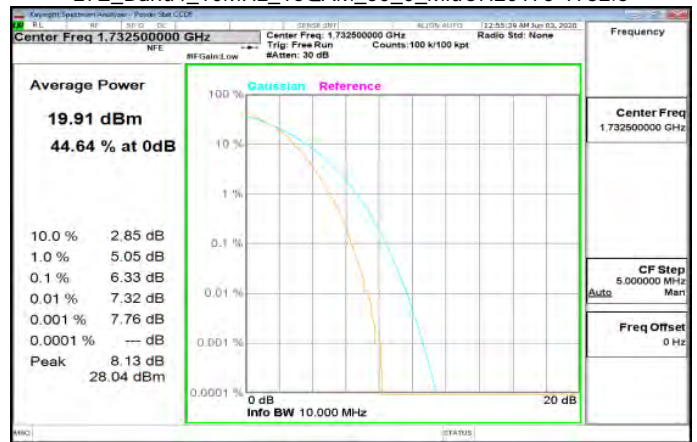
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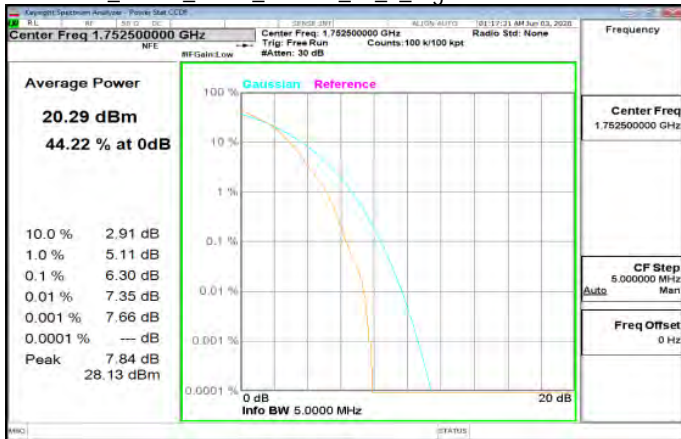
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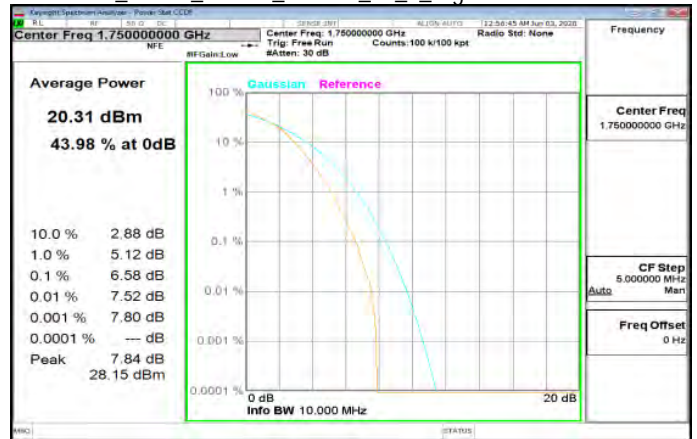
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LTE\_Band4\_10MHz\_16QAM\_50\_0\_HighCH20350-1750

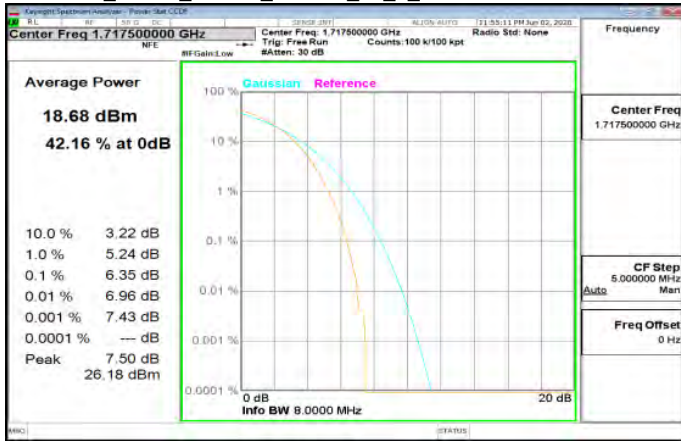


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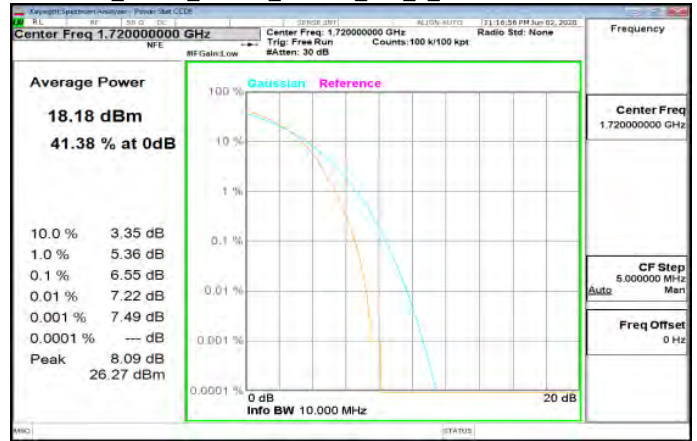
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LTE\_Band4\_15MHz\_16QAM\_75\_0\_LowCH20025-1717.5



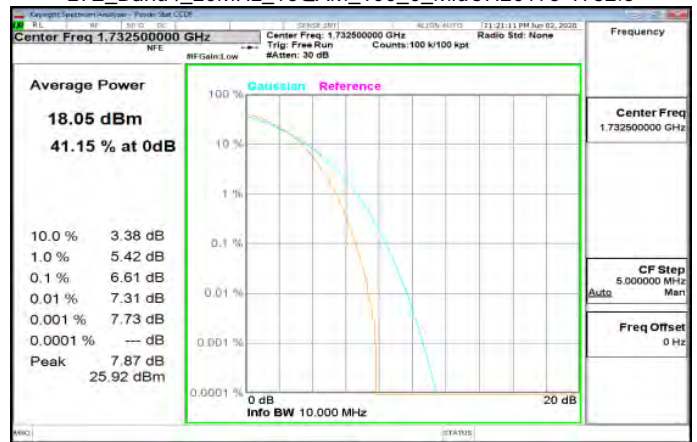
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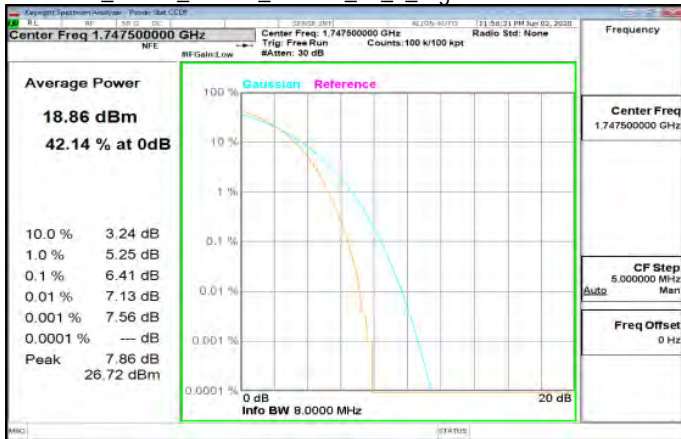
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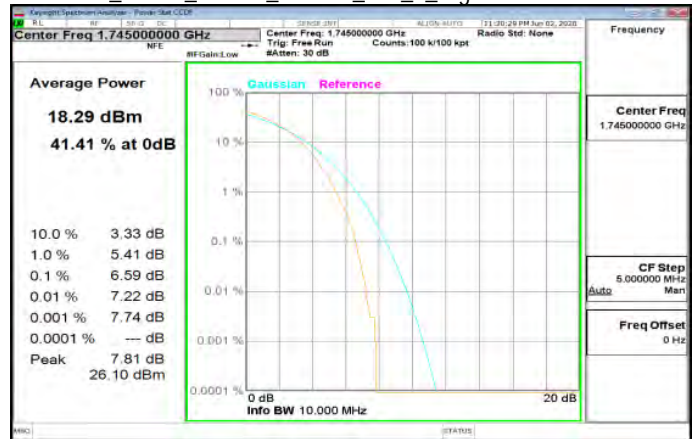
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LTE\_Band4\_20MHz\_16QAM\_100\_0\_HighCH20300-1745



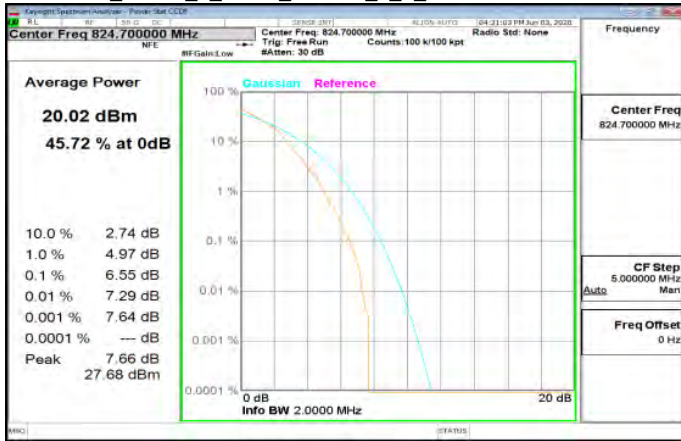
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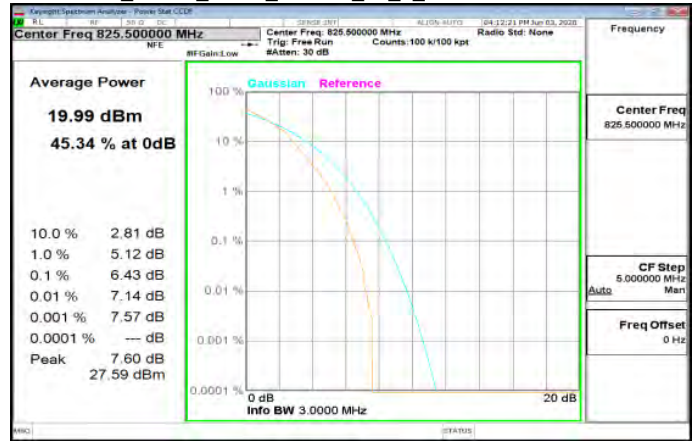
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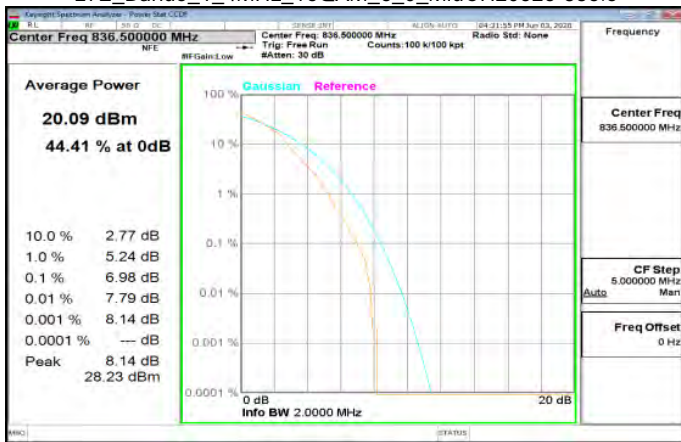
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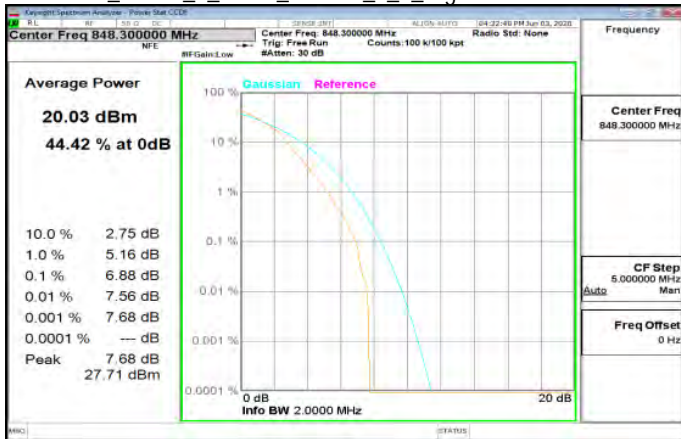
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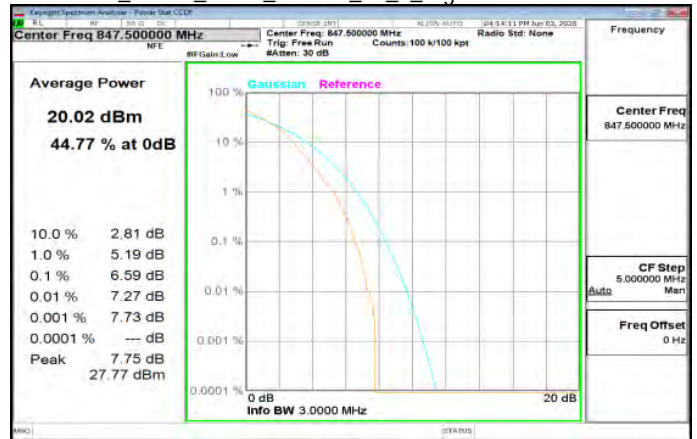
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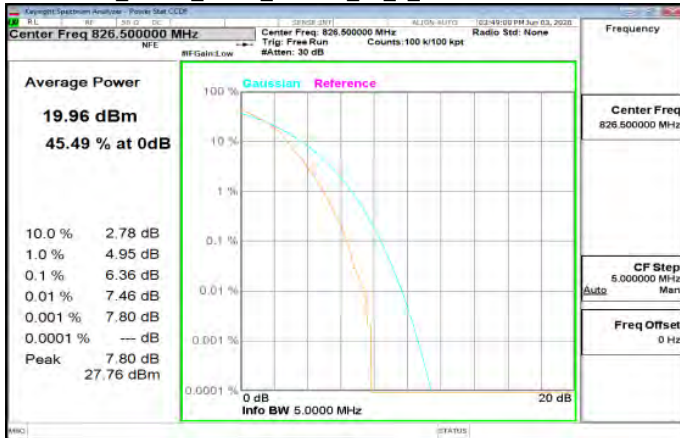


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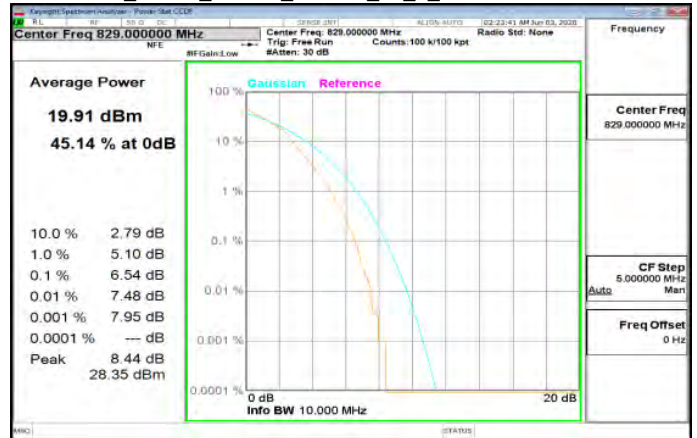
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LTE\_Band5\_5MHz\_16QAM\_25\_0\_LowCH20425-826.5



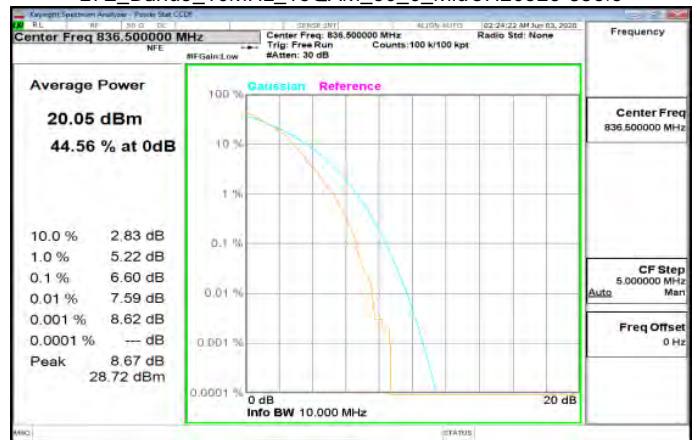
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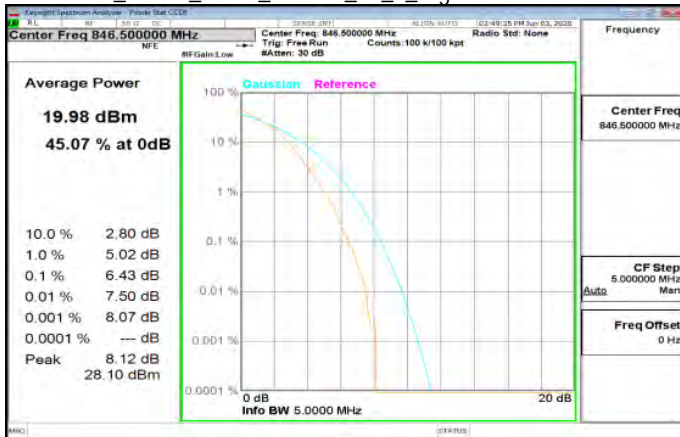
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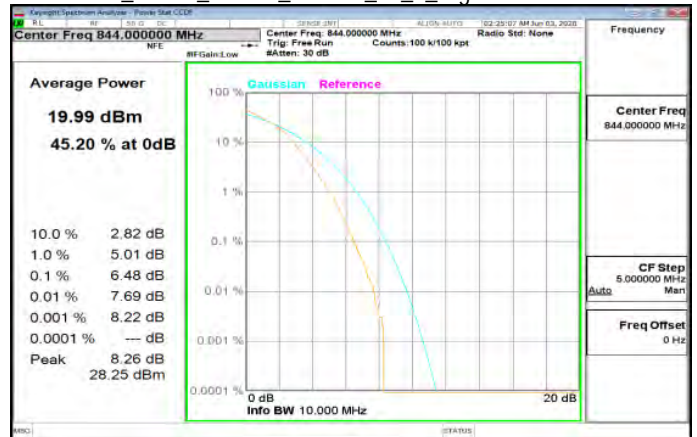
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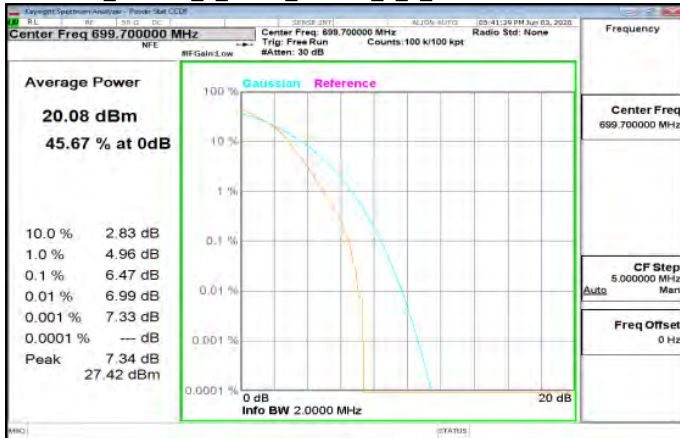
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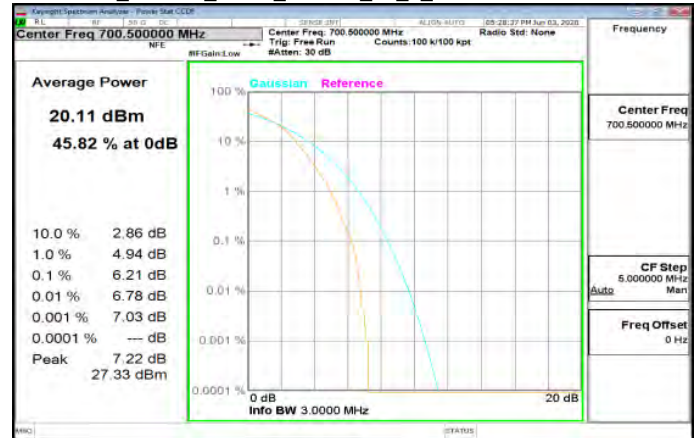
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LTE\_Band12\_1\_4MHz\_16QAM\_6\_0\_LowCH23017-699.7



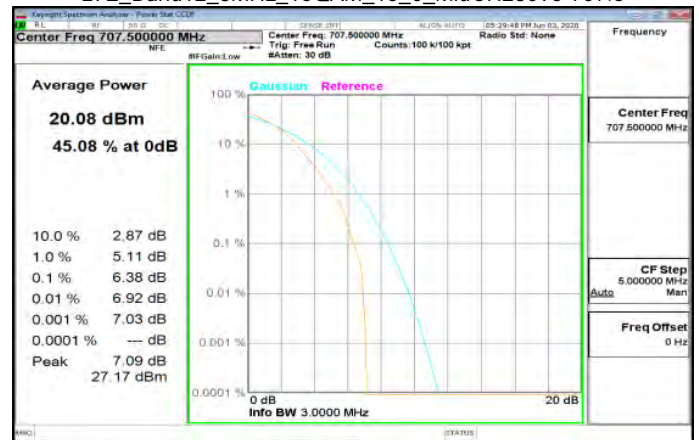
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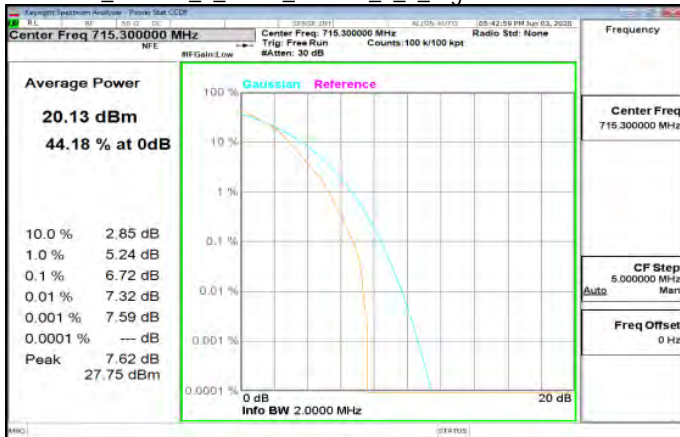
LTE\_Band12\_1\_4MHz\_16QAM\_6\_0\_MidCH23095-707.5



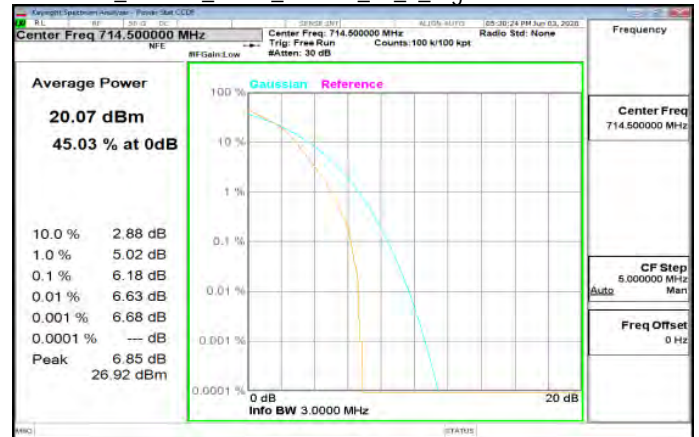
LTE\_Band12\_3MHz\_16QAM\_15\_0\_MidCH23095-707.5



LTE\_Band12\_1\_4MHz\_16QAM\_6\_0\_HighCH23173-715.3



LTE\_Band12\_3MHz\_16QAM\_15\_0\_HighCH23165-714.5



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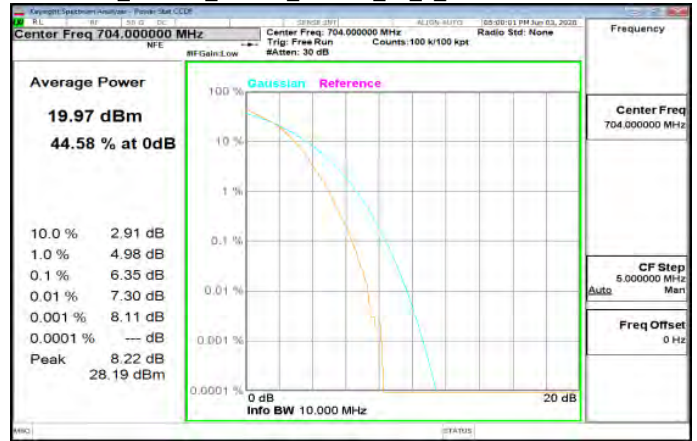
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LTE\_Band12\_5MHz\_16QAM\_25\_0\_LowCH23035-701.5



LTE\_Band12\_10MHz\_16QAM\_50\_0\_LowCH23060-704



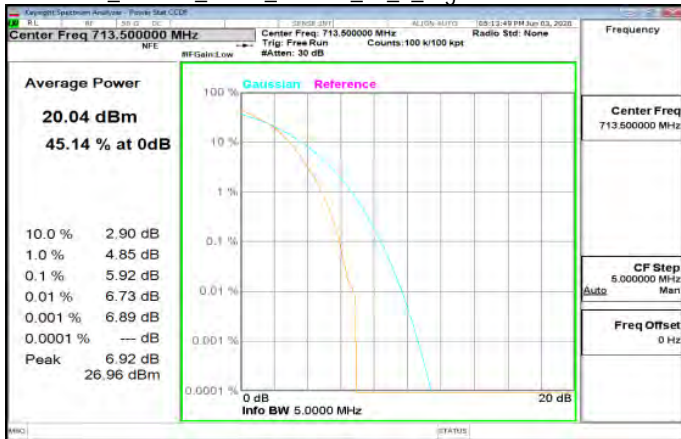
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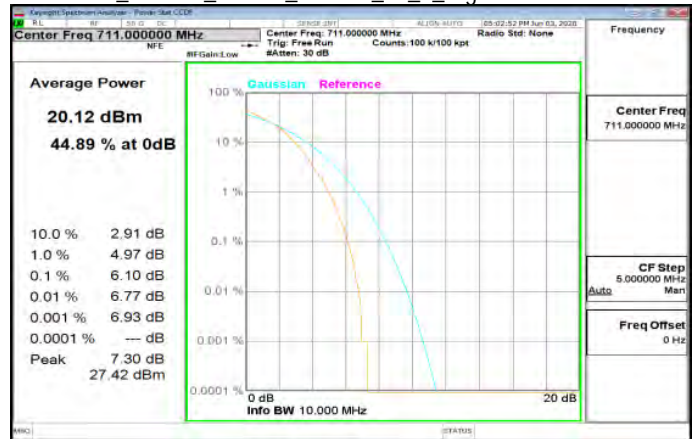
LTE\_Band12\_10MHz\_16QAM\_50\_0\_MidCH23095-707.5



LTE\_Band12\_5MHz\_16QAM\_25\_0\_HighCH23155-713.5



LTE\_Band12\_10MHz\_16QAM\_50\_0\_HighCH23130-711



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*~ End of Report ~*

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