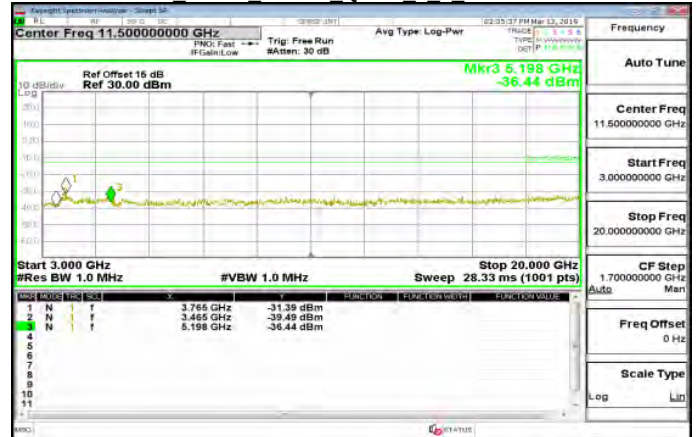


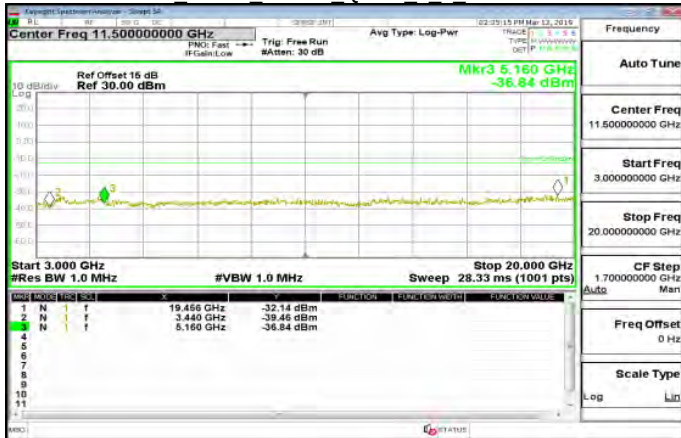
30MHz~3GHz Band4 20MHz QPSK 1 0 LowCH20050-1720



3GHz~10GHz Band4 20MHz QPSK 1 0 MidCH20175-1732.5



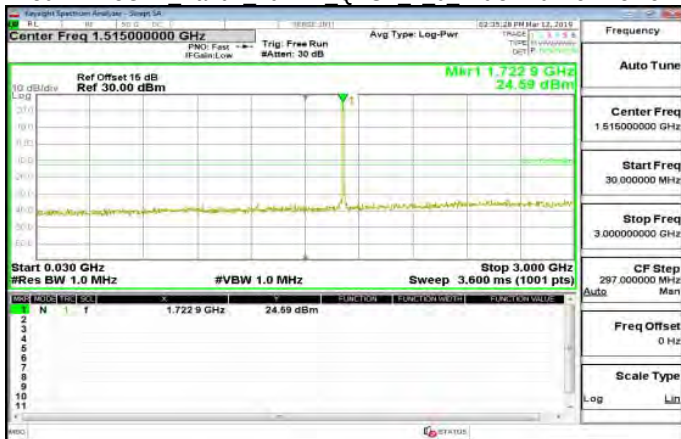
3GHz~10GHz Band4 20MHz QPSK 1 0 LowCH20050-1720



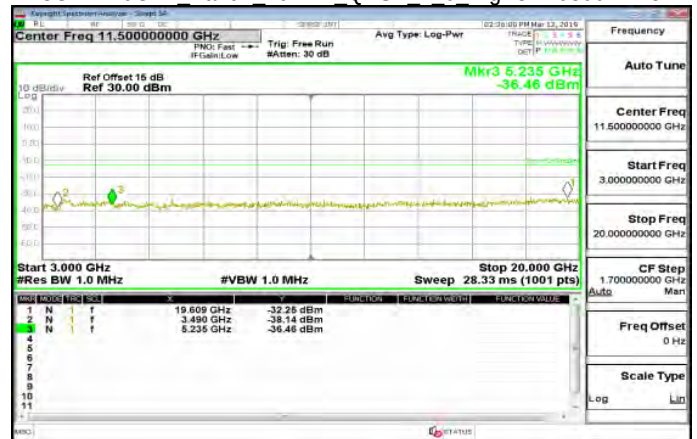
30MHz~3GHz Band4 20MHz QPSK 1 0 HighCH20300-1745



30MHz~3GHz Band4 20MHz QPSK 1 0 MidCH20175-1732.5



3GHz~10GHz Band4 20MHz QPSK 1 0 HighCH20300-1745



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30MHz~3GHz Band5 1 4MHz QPSK 1 0 LowCH20407-824.7



3GHz~10GHz Band5 1 4MHz QPSK 1 0 MidCH20525-836.5



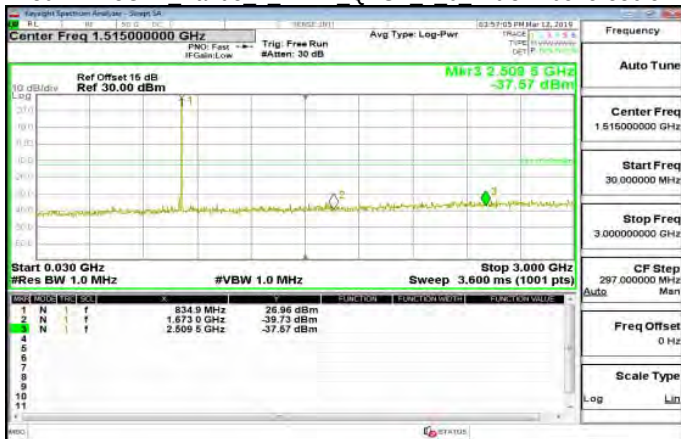
3GHz~10GHz Band5 1 4MHz QPSK 1 0 LowCH20407-824.7



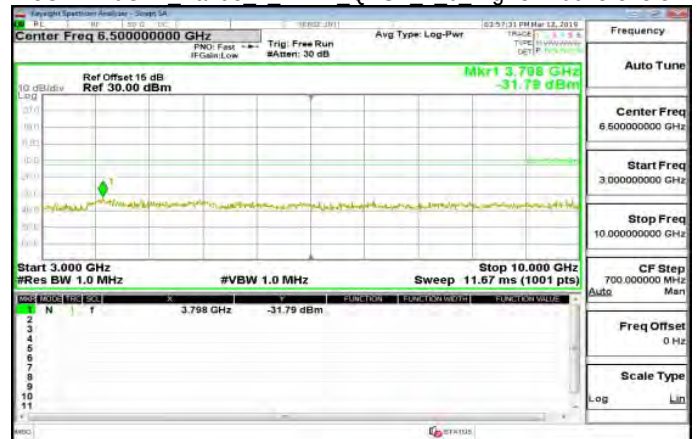
30MHz~3GHz Band5 1 4MHz QPSK 1 0 HighCH20643-848.3



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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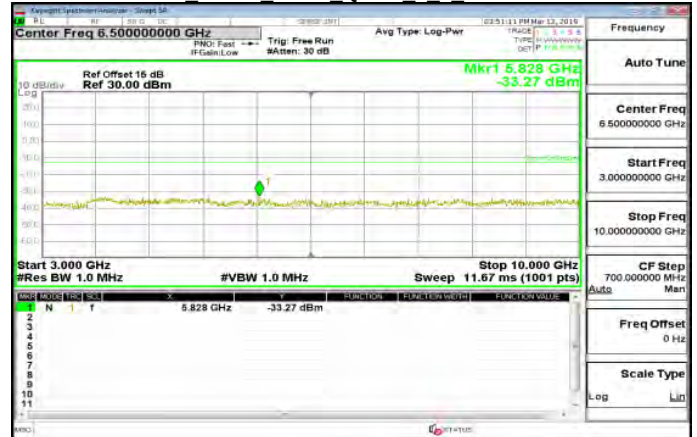
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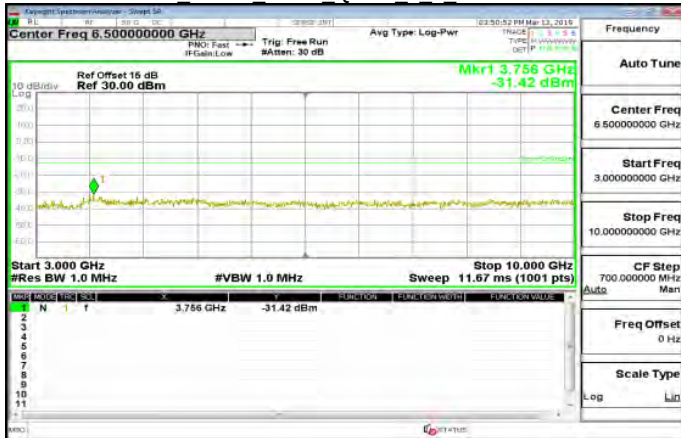
30MHz~3GHz Band5 3MHz QPSK 1 0 LowCH20415-825.5



3GHz~10GHz Band5 3MHz QPSK 1 0 MidCH20525-836.5



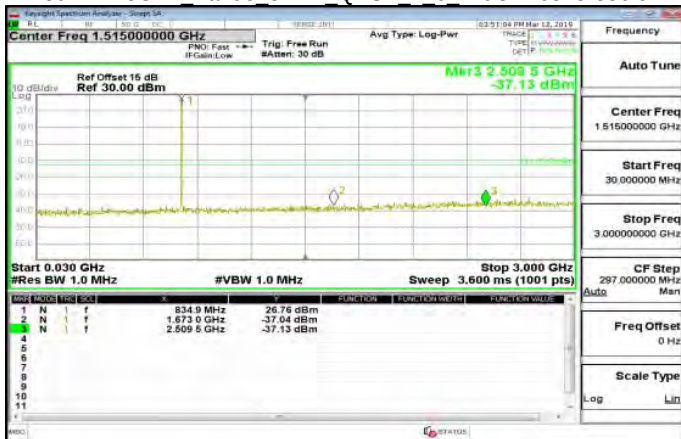
3GHz~10GHz Band5 3MHz QPSK 1 0 LowCH20415-825.5



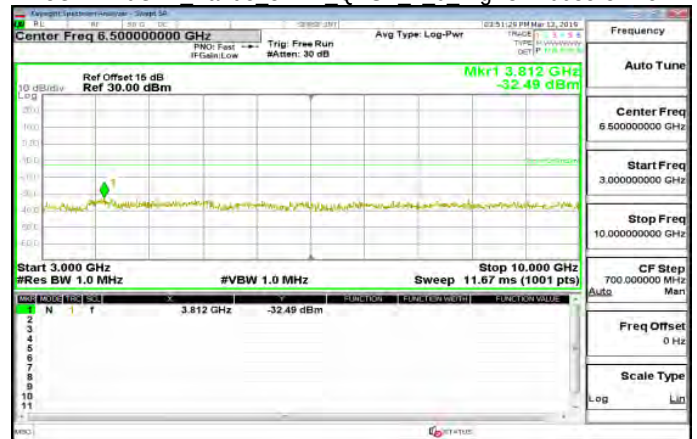
30MHz~3GHz Band5 3MHz QPSK 1 0 HighCH20635-847.5



30MHz~3GHz Band5 3MHz QPSK 1 0 MidCH20525-836.5



3GHz~10GHz Band5 3MHz QPSK 1 0 HighCH20635-847.5



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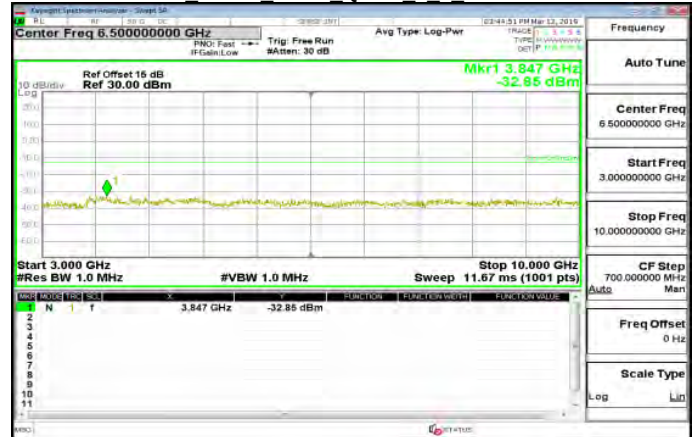
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30MHz~3GHz Band5 5MHz QPSK 1 0 LowCH20425-826.5



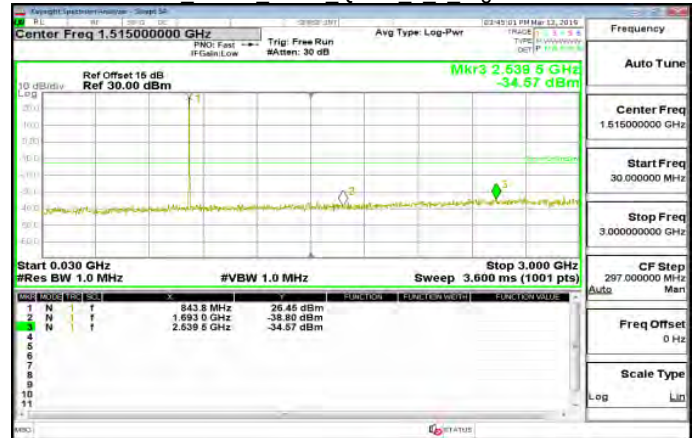
3GHz~10GHz Band5 5MHz QPSK 1 0 MidCH20525-836.5



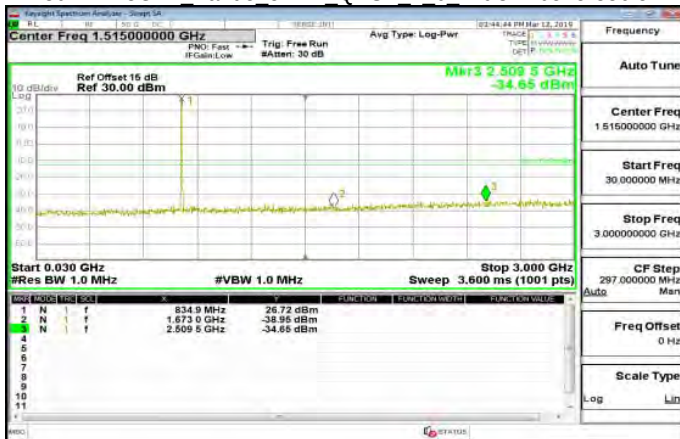
3GHz~10GHz Band5 5MHz QPSK 1 0 LowCH20425-826.5



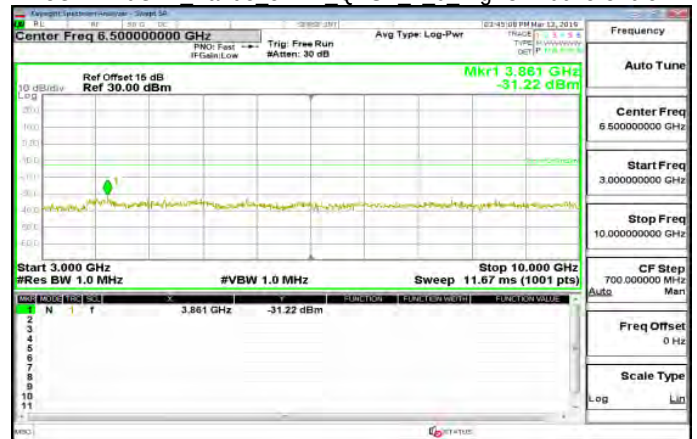
30MHz~3GHz Band5 5MHz QPSK 1 0 HighCH20625-846.5



30MHz~3GHz Band5 5MHz QPSK 1 0 MidCH20525-836.5



3GHz~10GHz Band5 5MHz QPSK 1 0 HighCH20625-846.5



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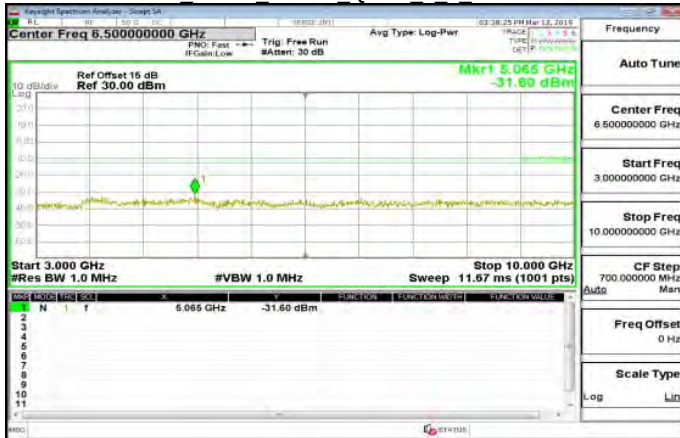
30MHz~3GHz Band5 10MHz QPSK 1 0 LowCH20450-829



3GHz~10GHz Band5 10MHz QPSK 1 0 MidCH20525-836.5



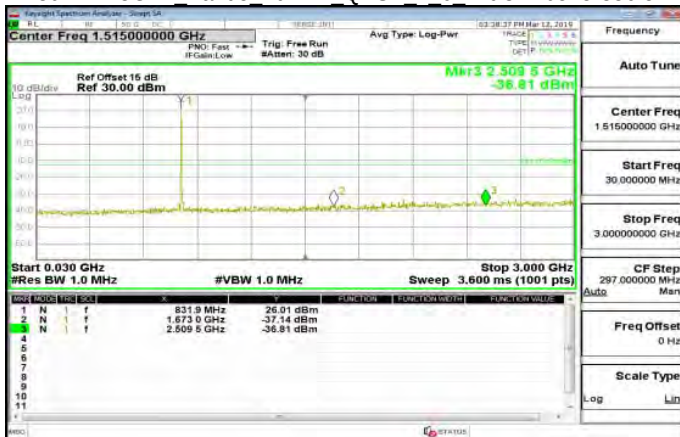
3GHz~10GHz Band5 10MHz QPSK 1 0 LowCH20450-829



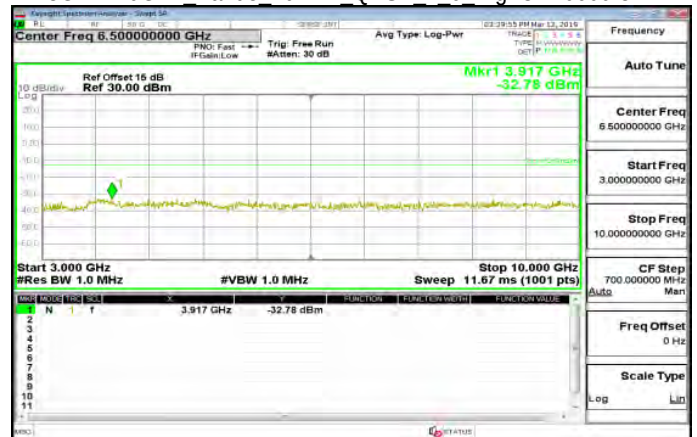
30MHz~3GHz Band5 10MHz QPSK 1 0 HighCH20600-844



30MHz~3GHz Band5 10MHz QPSK 1 0 MidCH20525-836.5



3GHz~10GHz Band5 10MHz QPSK 1 0 HighCH20600-844



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30MHz~3GHz Band7 5MHz QPSK 1 0 LowCH20775-2502.5



3GHz~10GHz Band7 5MHz QPSK 1 0 MidCH21100-2535



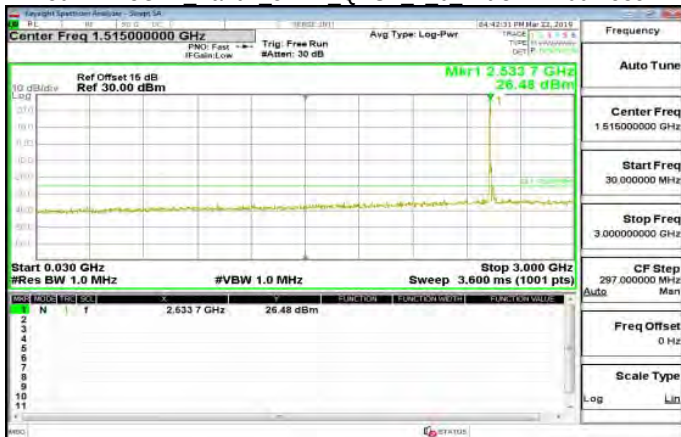
3GHz~10GHz Band7 5MHz QPSK 1 0 LowCH20775-2502.5



30MHz~3GHz Band7 5MHz QPSK 1 0 HighCH21425-2567.5



30MHz~3GHz Band7 5MHz QPSK 1 0 MidCH21100-2535



3GHz~10GHz Band7 5MHz QPSK 1 0 HighCH21425-2567.5



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30MHz~3GHz Band7 10MHz QPSK 1 0 LowCH20800-2505



3GHz~10GHz Band7 10MHz QPSK 1 0 MidCH21100-2535



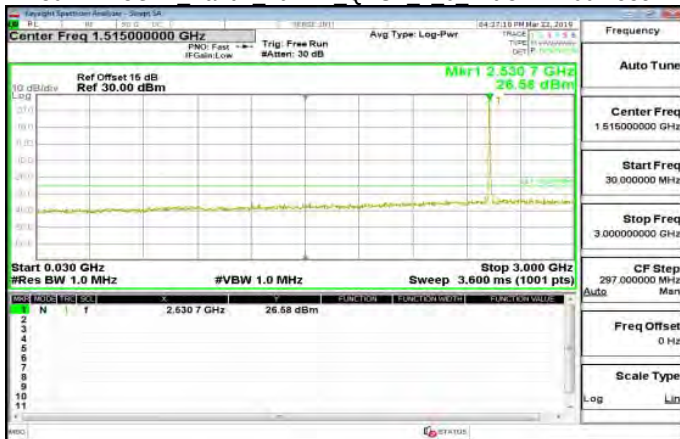
3GHz~10GHz Band7 10MHz QPSK 1 0 LowCH20800-2505



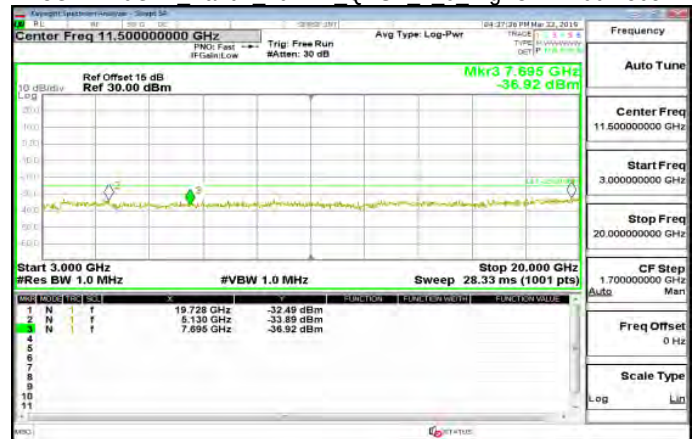
30MHz~3GHz Band7 10MHz QPSK 1 0 HighCH21400-2565



30MHz~3GHz Band7 10MHz QPSK 1 0 MidCH21100-2535



3GHz~10GHz Band7 10MHz QPSK 1 0 HighCH21400-2565



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30MHz~3GHz Band7 15MHz QPSK 1 0 LowCH20825-2507.5



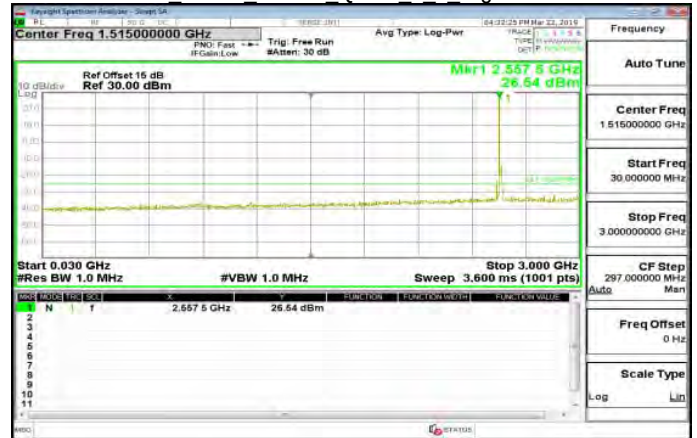
3GHz~10GHz Band7 15MHz QPSK 1 0 MidCH21100-2535



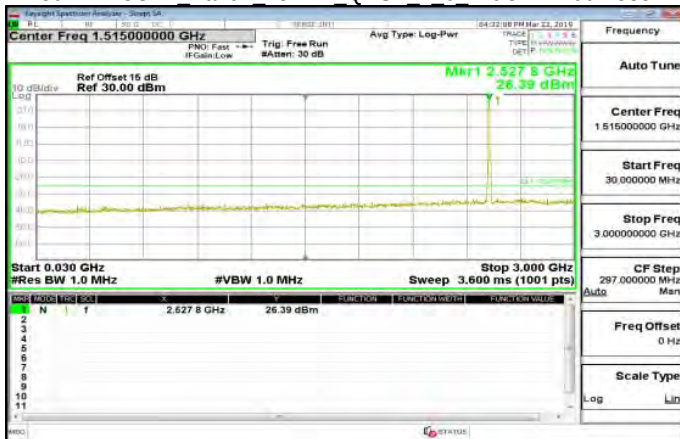
3GHz~10GHz Band7 15MHz QPSK 1 0 LowCH20825-2507.5



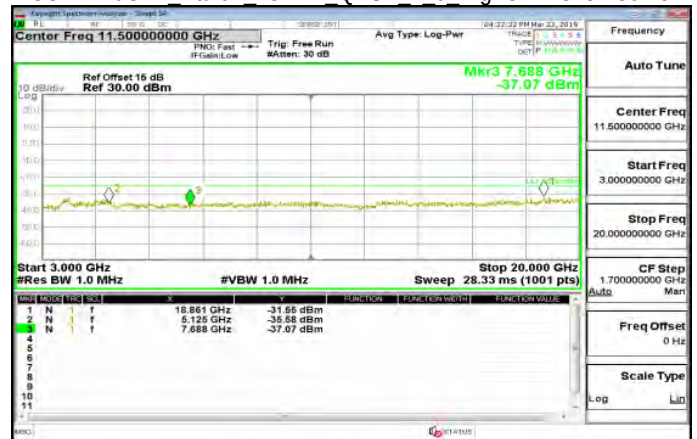
30MHz~3GHz Band7 15MHz QPSK 1 0 HighCH21375-2562.5



30MHz~3GHz Band7 15MHz QPSK 1 0 MidCH21100-2535



3GHz~10GHz Band7 15MHz QPSK 1 0 HighCH21375-2562.5



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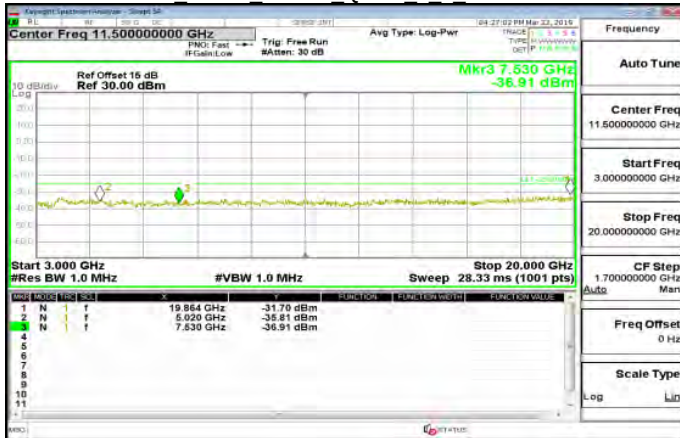
30MHz~3GHz Band7 20MHz QPSK 1 0 LowCH20850-2510



3GHz~10GHz Band7 20MHz QPSK 1 0 MidCH21100-2535



3GHz~10GHz Band7 20MHz QPSK 1 0 LowCH20850-2510



30MHz~3GHz Band7 20MHz QPSK 1 0 HighCH21350-2560



30MHz~3GHz Band7 20MHz QPSK 1 0 MidCH21100-2535



3GHz~10GHz Band7 20MHz QPSK 1 0 HighCH21350-2560

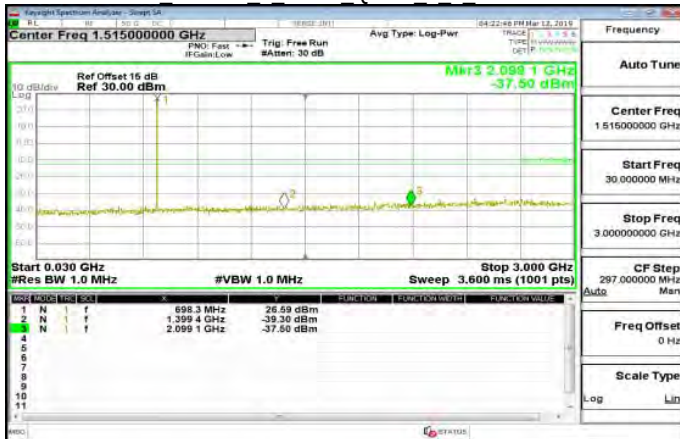


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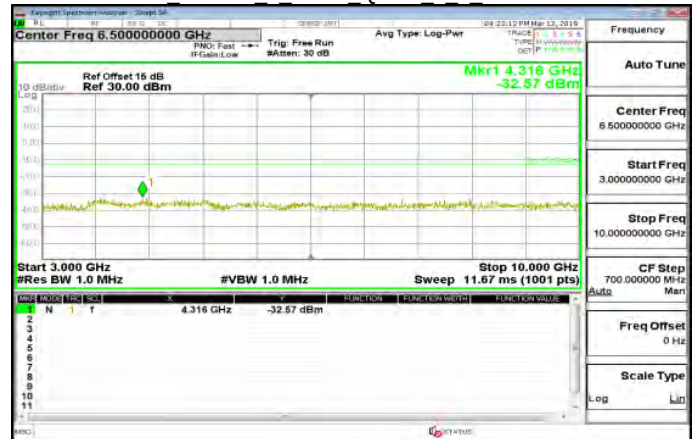
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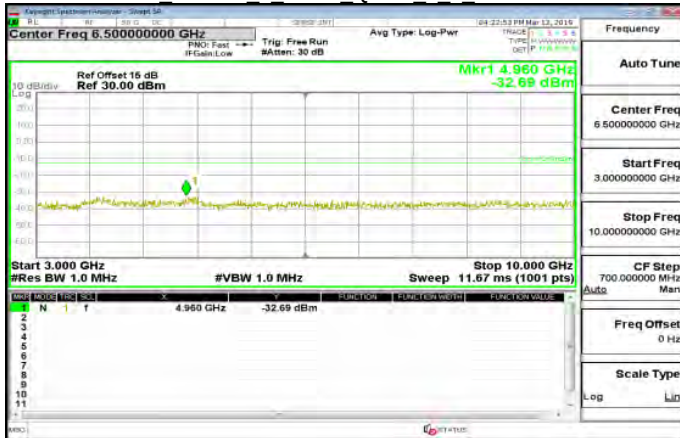
30MHz~3GHz Band12 1 4MHz QPSK 1 0 LowCH23017-699.7



3GHz~10GHz Band12 1 4MHz QPSK 1 0 MidCH23095-707.5



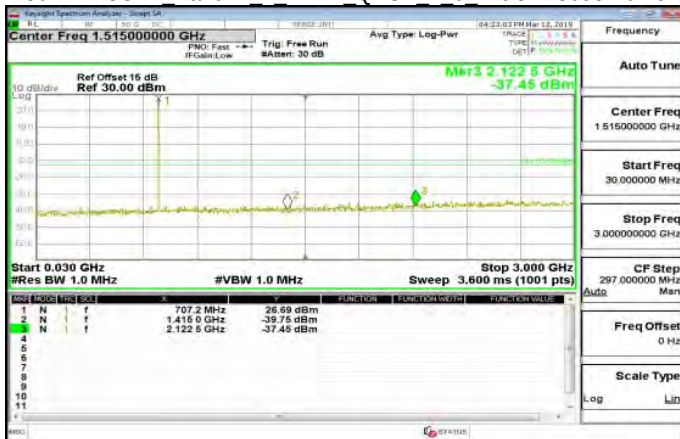
3GHz~10GHz Band12 1 4MHz QPSK 1 0 LowCH23017-699.7



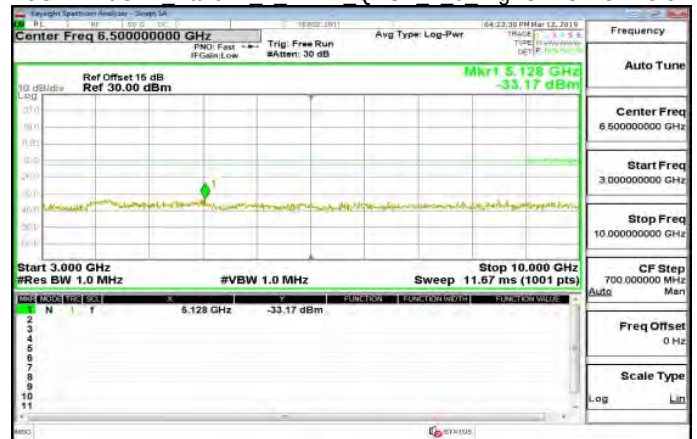
30MHz~3GHz Band12 1 4MHz QPSK 1 0 HighCH23173-715.3



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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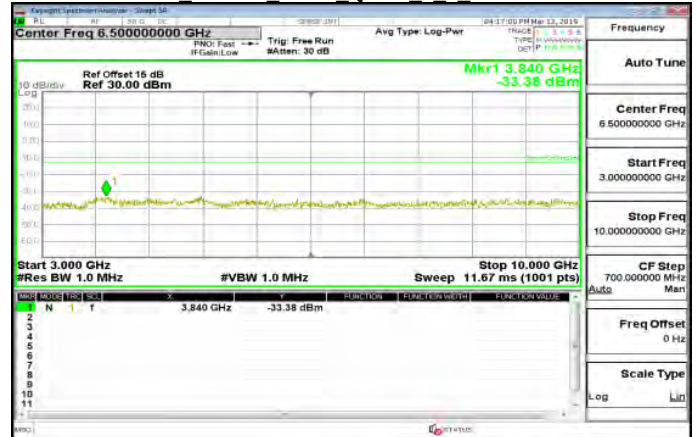
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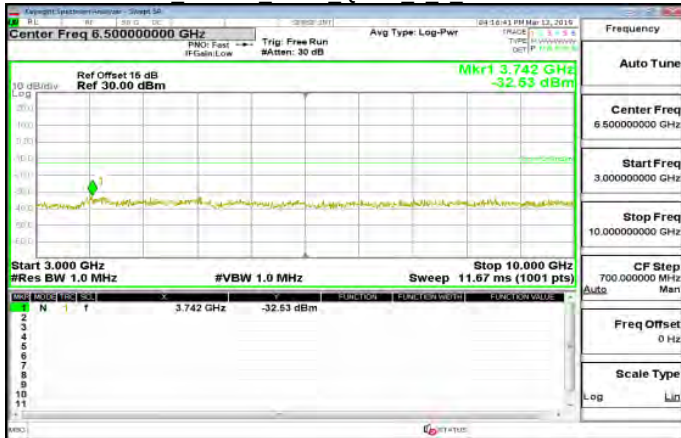
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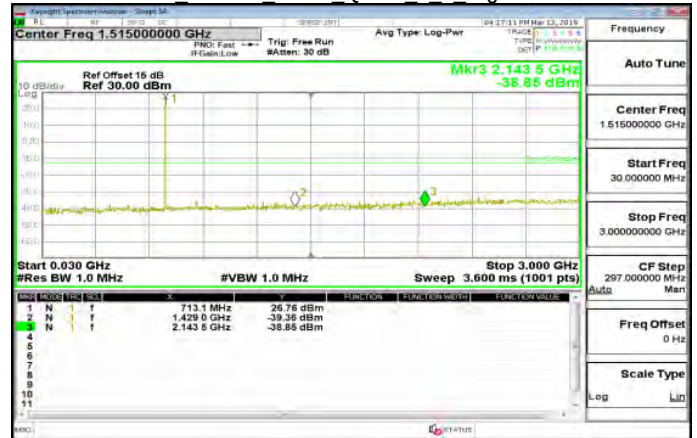
3GHz~10GHz Band12 3MHz QPSK 1 0 MidCH23095-707.5



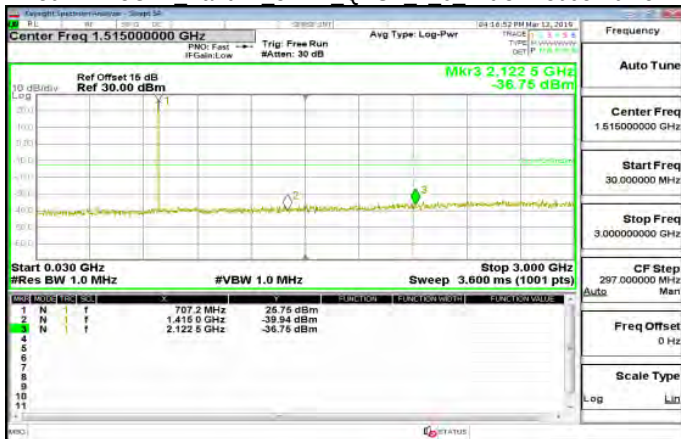
3GHz~10GHz Band12 3MHz QPSK 1 0 LowCH23025-700.5



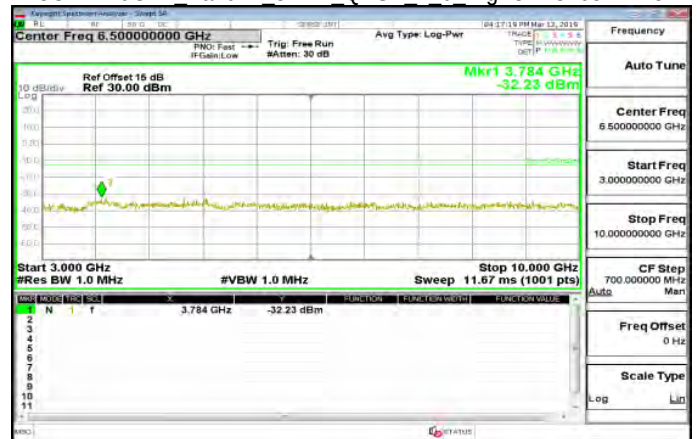
30MHz~3GHz Band12 3MHz QPSK 1 0 HighCH23165-714.5



30MHz~3GHz Band12 3MHz QPSK 1 0 MidCH23095-707.5



3GHz~10GHz Band12 3MHz QPSK 1 0 HighCH23165-714.5



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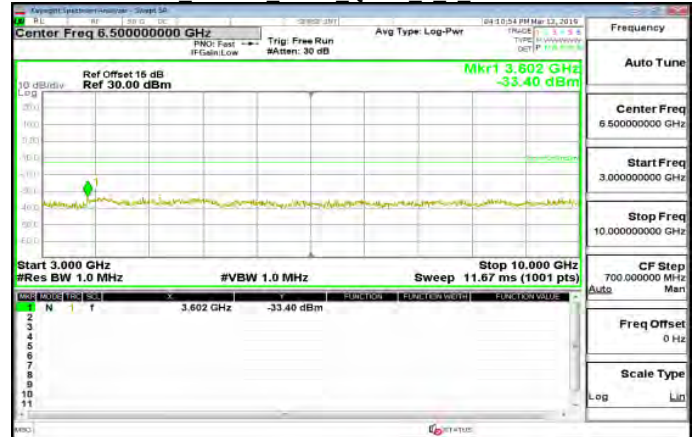
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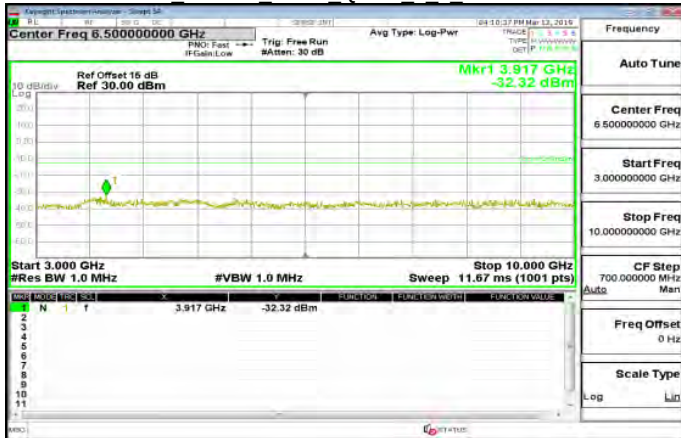
30MHz~3GHz Band12 5MHz QPSK 1 0 LowCH23035-701.5



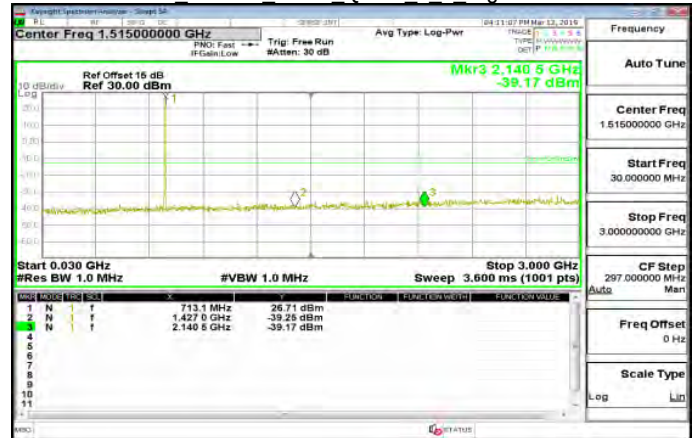
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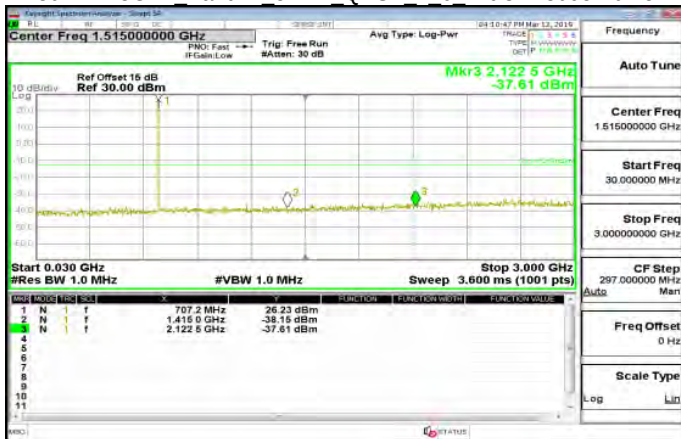
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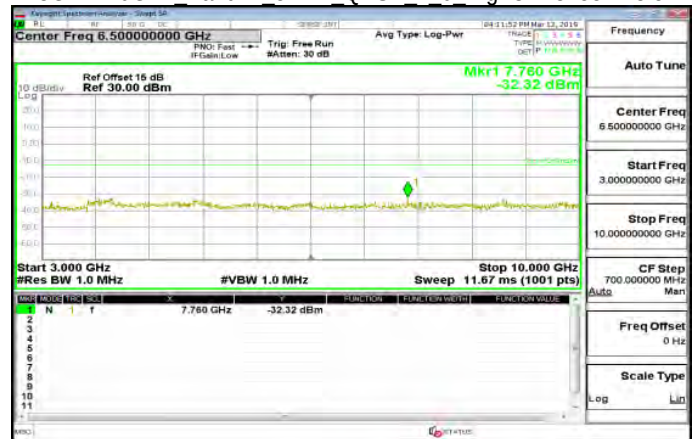
30MHz~3GHz Band12 5MHz QPSK 1 0 HighCH23155-713.5



30MHz~3GHz Band12 5MHz QPSK 1 0 MidCH23095-707.5



3GHz~10GHz Band12 5MHz QPSK 1 0 HighCH23155-713.5



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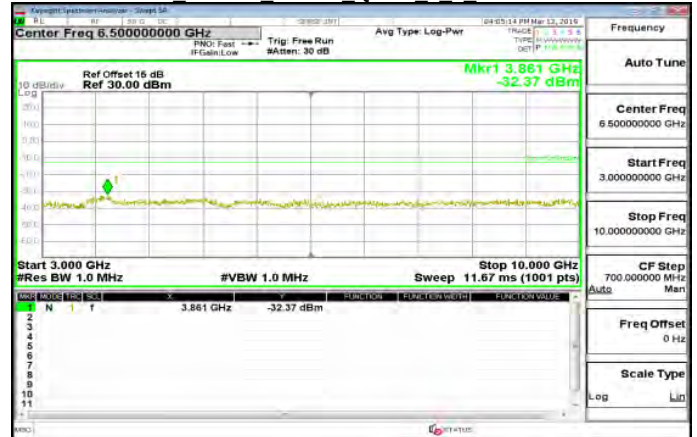
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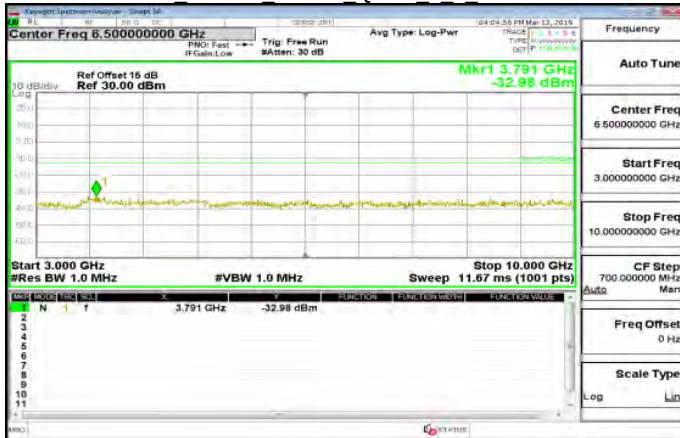
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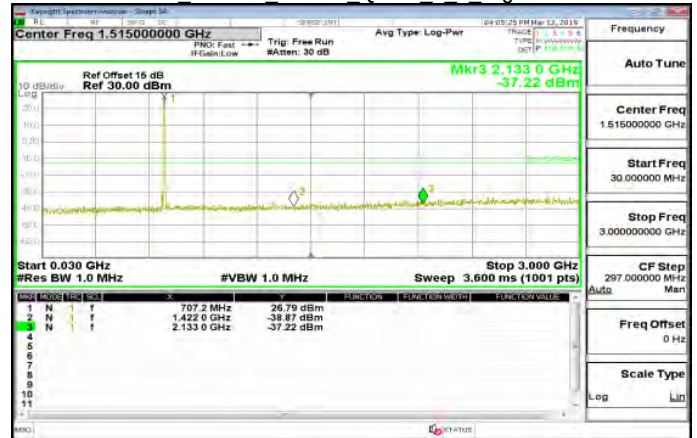
3GHz~10GHz Band12 10MHz QPSK 1 0 MidCH23095-707.5



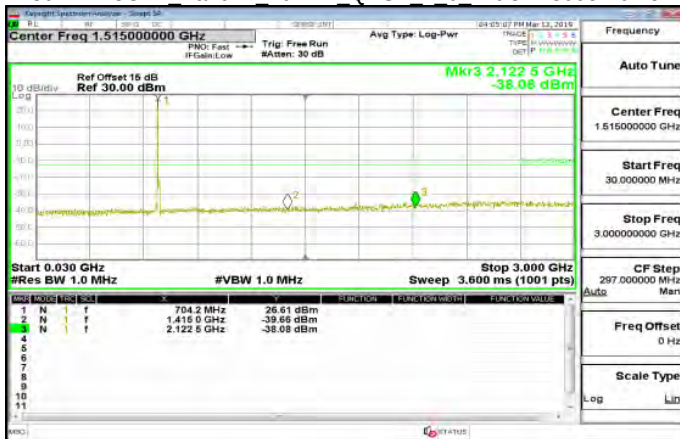
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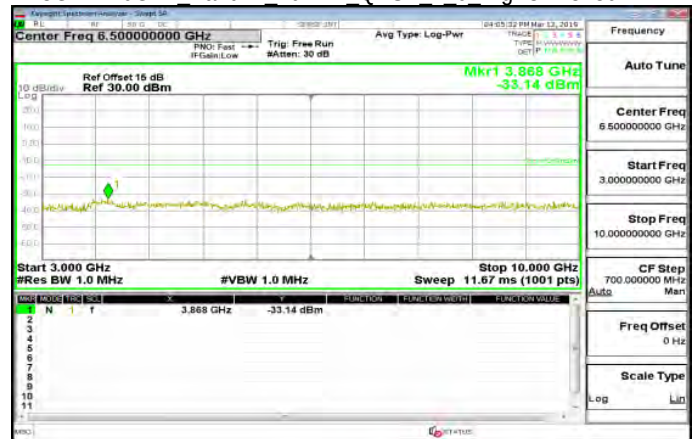
30MHz~3GHz Band12 10MHz QPSK 1 0 HighCH23130-711



30MHz~3GHz Band12 10MHz QPSK 1 0 MidCH23095-707.5



3GHz~10GHz Band12 10MHz QPSK 1 0 HighCH23130-711



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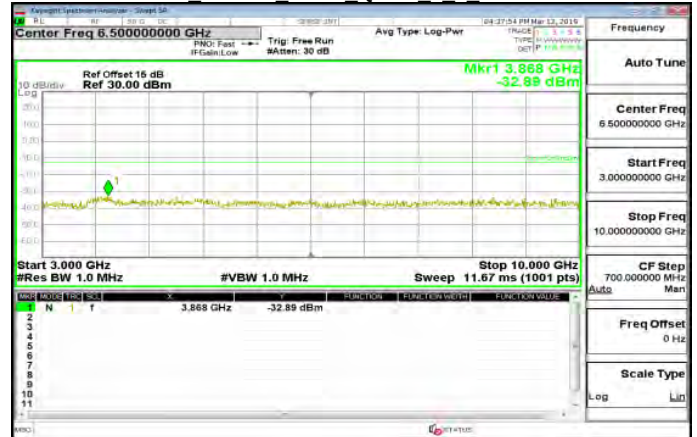
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30MHz~3GHz Band13 5MHz QPSK 1 0 LowCH23205-779.5



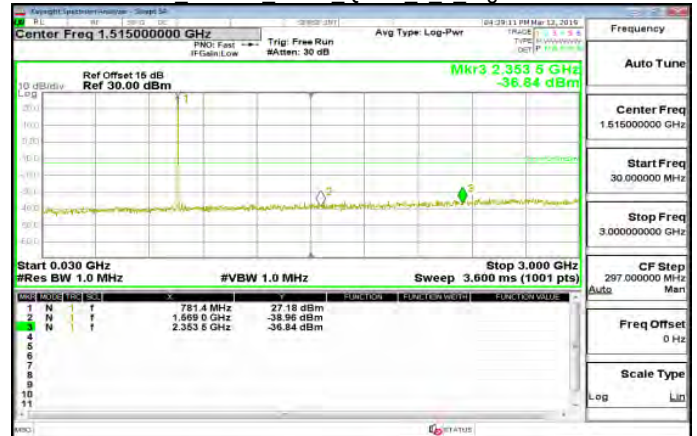
3GHz~10GHz Band13 5MHz QPSK 1 0 MidCH23230-782



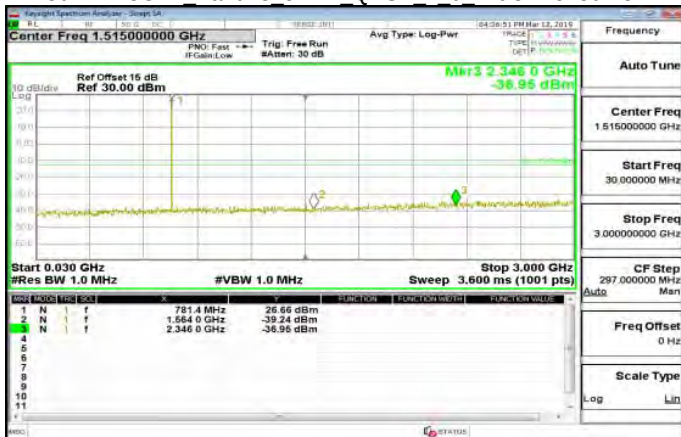
3GHz~10GHz Band13 5MHz QPSK 1 0 LowCH23205-779.5



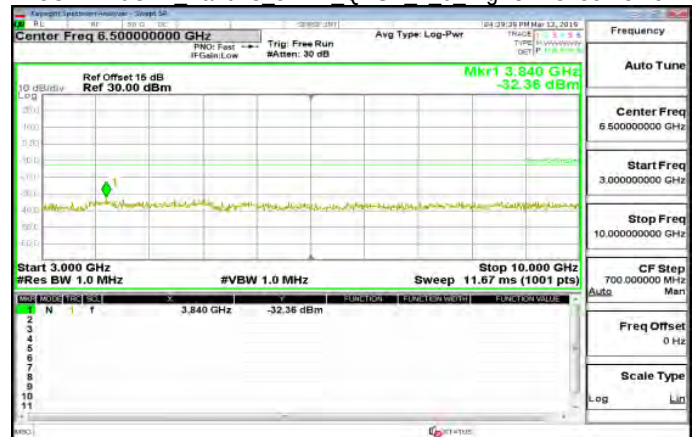
30MHz~3GHz Band13 5MHz QPSK 1 0 HighCH23255-784.5



30MHz~3GHz Band13 5MHz QPSK 1 0 MidCH23230-782



3GHz~10GHz Band13 5MHz QPSK 1 0 HighCH23255-784.5



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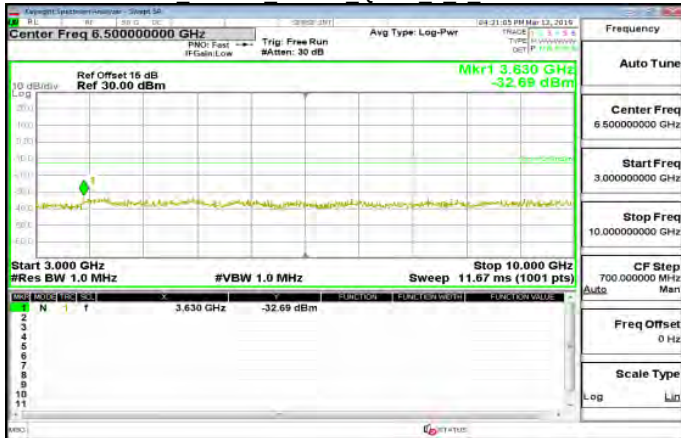
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Inband-2 Band13 5MHz QPSK 1 0 LowCH23205-779.5



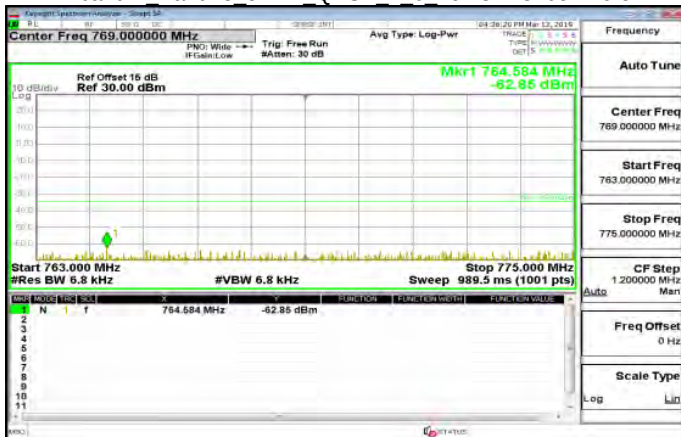
3GHz~10GHz Band13 10MHz QPSK 1 0 MidCH23230-782



Inband-1 Band13 5MHz QPSK 1 0 MidCH23230-782



Inband-1 Band13 5MHz QPSK 1 0 LowCH23205-779.5



Inband-2 Band13 5MHz QPSK 1 0 MidCH23230-782



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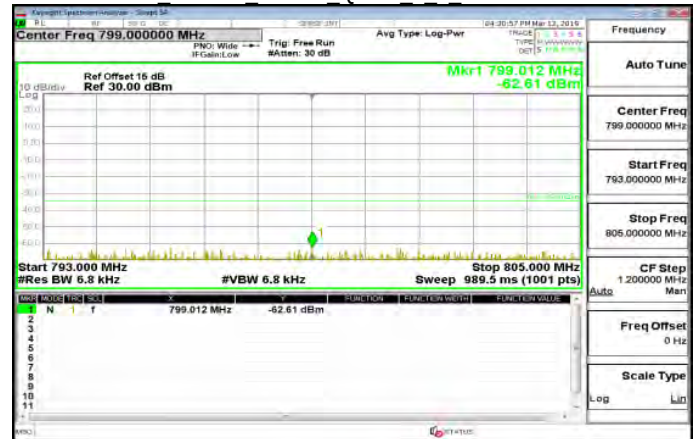
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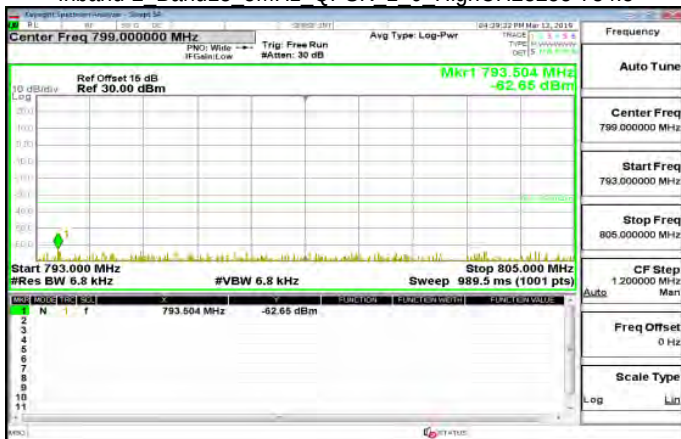
Inband-1 Band13 5MHz QPSK 1 0 HighCH23255-784.5



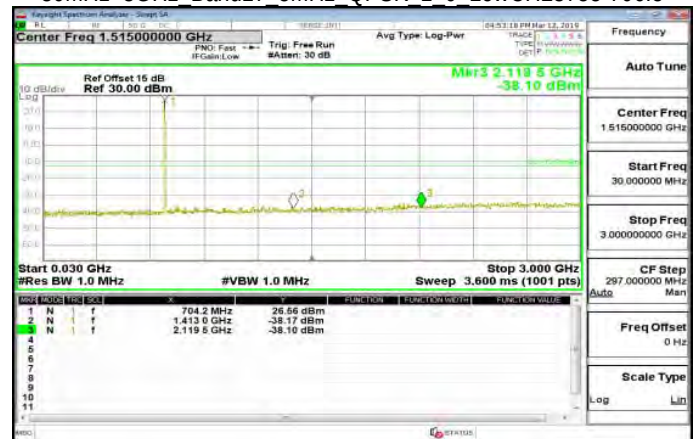
Inband-2 Band13 10MHz QPSK 1 0 MidCH23230-782



Inband-2 Band13 5MHz QPSK 1 0 HighCH23255-784.5



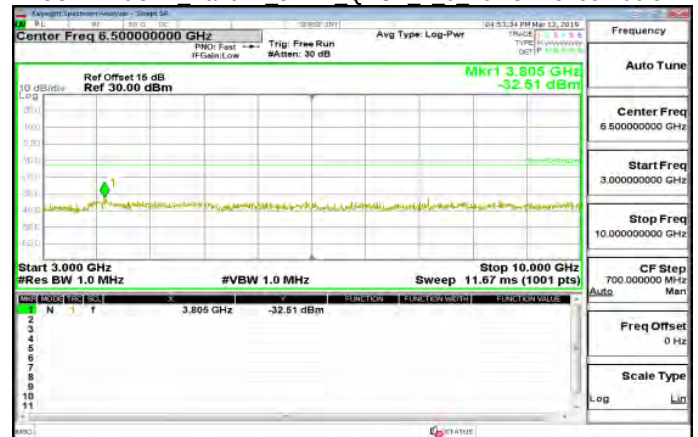
30MHz~3GHz Band17 5MHz QPSK 1 0 LowCH23755-706.5



Inband-1 Band13 10MHz QPSK 1 0 MidCH23230-782



3GHz~10GHz Band17 5MHz QPSK 1 0 LowCH23755-706.5



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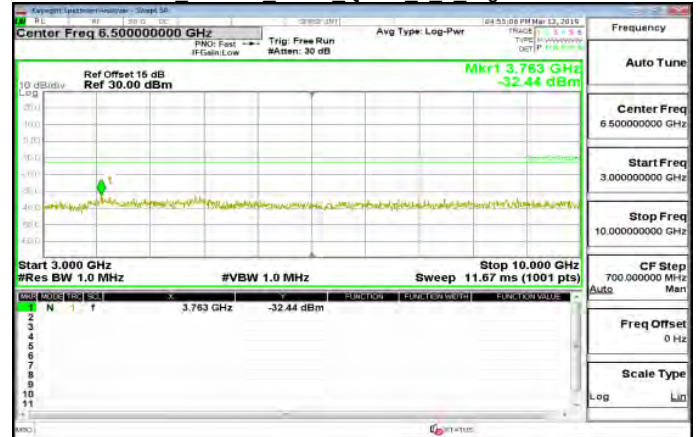
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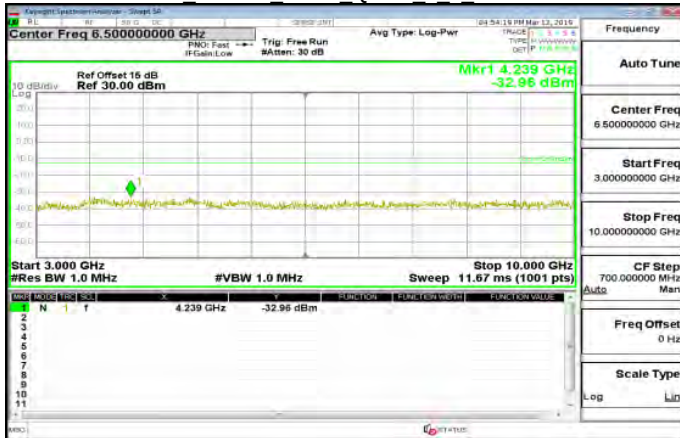
30MHz~3GHz Band17 5MHz QPSK 1 0 MidCH23790-710



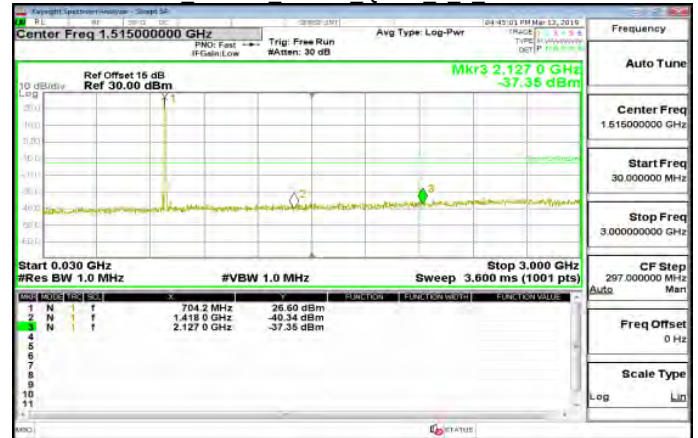
3GHz~10GHz Band17 5MHz QPSK 1 0 HighCH23825-713.5



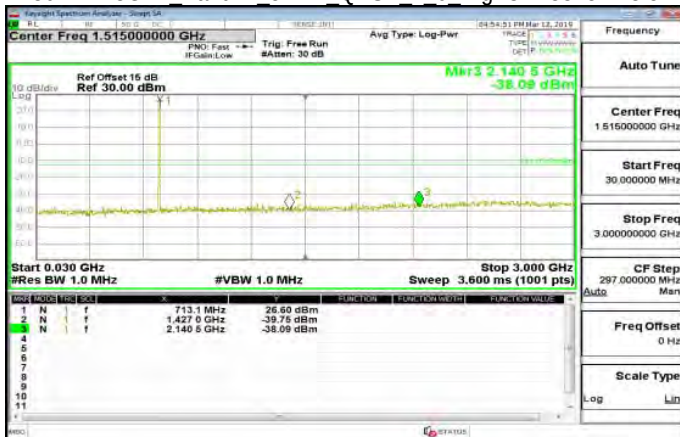
3GHz~10GHz Band17 5MHz QPSK 1 0 MidCH23790-710



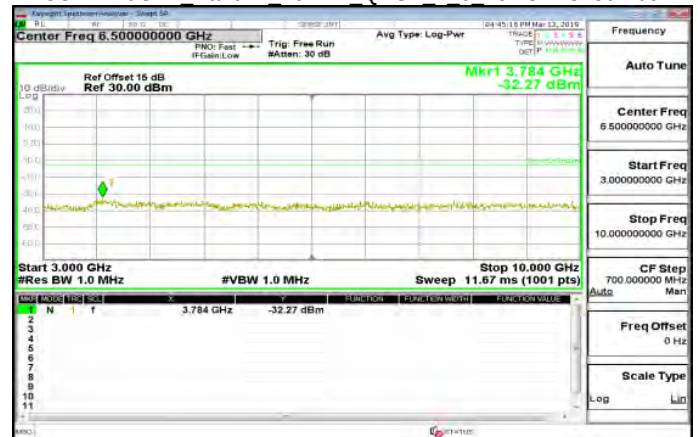
30MHz~3GHz Band17 10MHz QPSK 1 0 LowCH23780-709



30MHz~3GHz Band17 5MHz QPSK 1 0 HighCH23825-713.5



3GHz~10GHz Band17 10MHz QPSK 1 0 LowCH23780-709

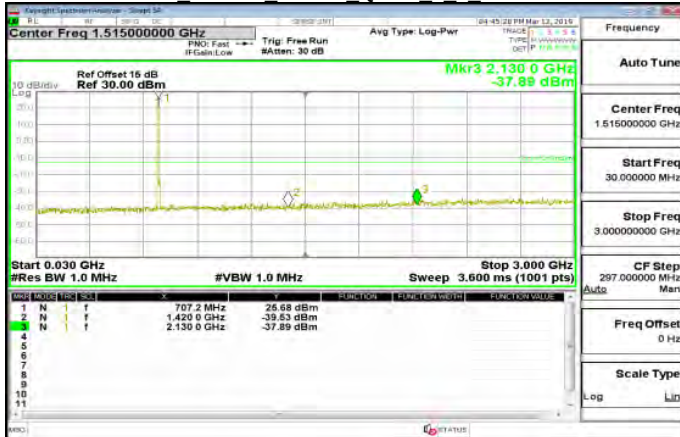


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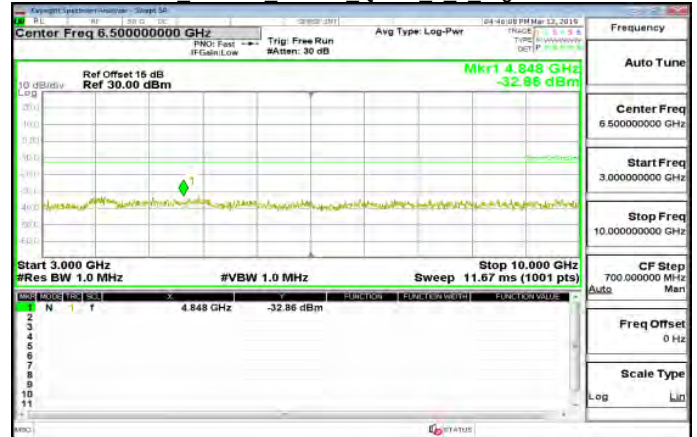
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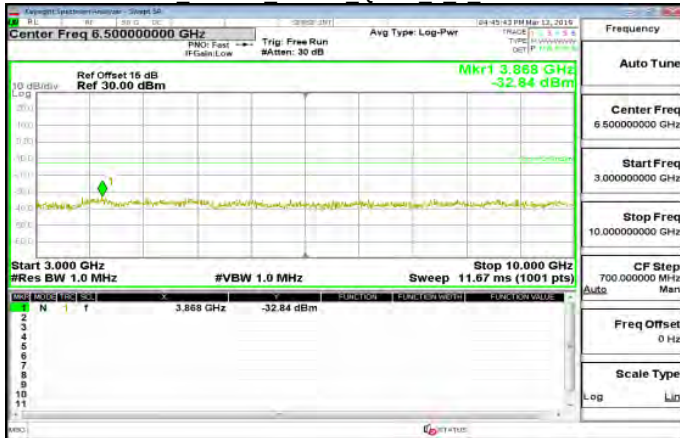
30MHz~3GHz Band17 10MHz QPSK 1 0 MidCH23790-710



3GHz~10GHz Band17 10MHz QPSK 1 0 HighCH23800-711



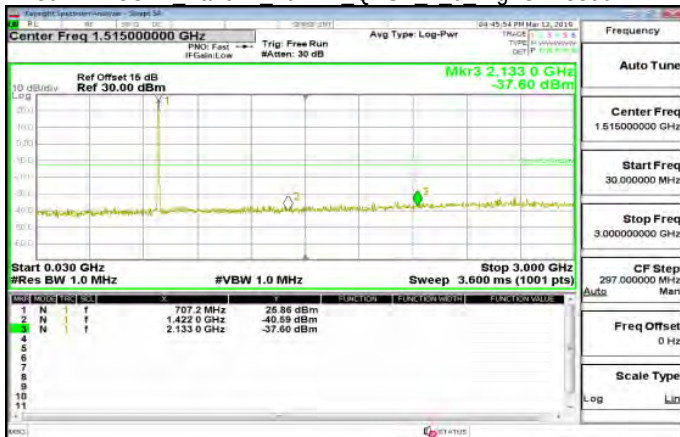
3GHz~10GHz Band17 10MHz QPSK 1 0 MidCH23790-710



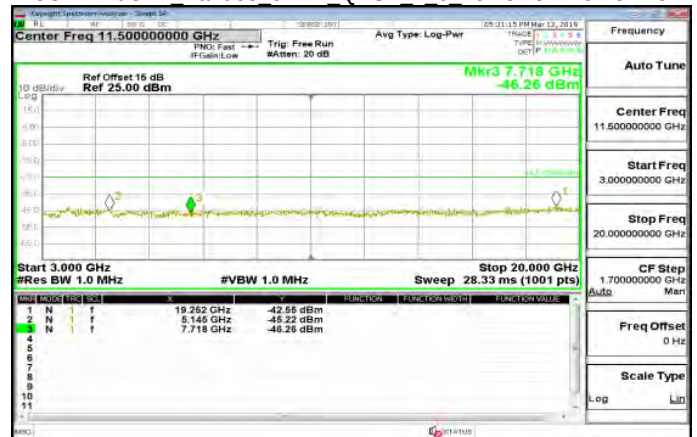
30MHz~3GHz Band38 5MHz QPSK 1 0 LowCH37775-2572.5



30MHz~3GHz Band17 10MHz QPSK 1 0 HighCH23800-711



3GHz~10GHz Band38 5MHz QPSK 1 0 LowCH37775-2572.5



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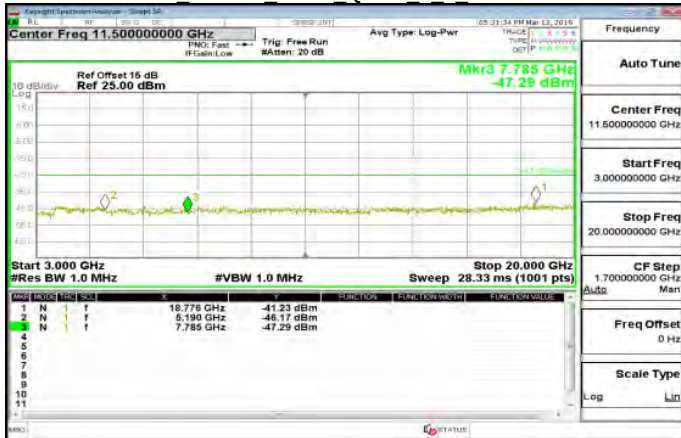
30MHz~3GHz Band38 5MHz QPSK 1 0 MidCH38000-2595



3GHz~10GHz Band38 5MHz QPSK 1 0 HighCH38225-2617.5



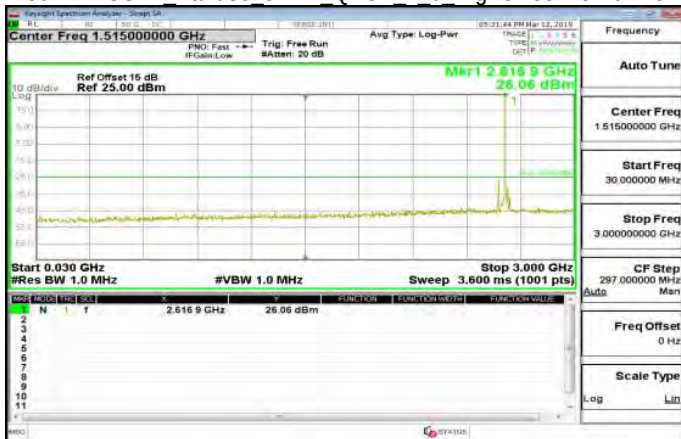
3GHz~10GHz Band38 5MHz QPSK 1 0 MidCH38000-2595



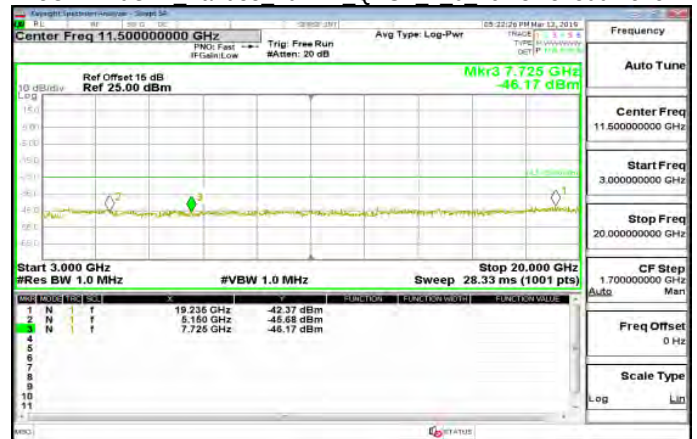
30MHz~3GHz Band38 10MHz QPSK 1 0 LowCH37800-2575



30MHz~3GHz Band38 5MHz QPSK 1 0 HighCH38225-2617.5



3GHz~10GHz Band38 10MHz QPSK 1 0 LowCH37800-2575



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30MHz~3GHz Band38 10MHz QPSK 1 0 MidCH38000-2595



3GHz~10GHz Band38 10MHz QPSK 1 0 HighCH38200-2615



3GHz~10GHz Band38 10MHz QPSK 1 0 MidCH38000-2595



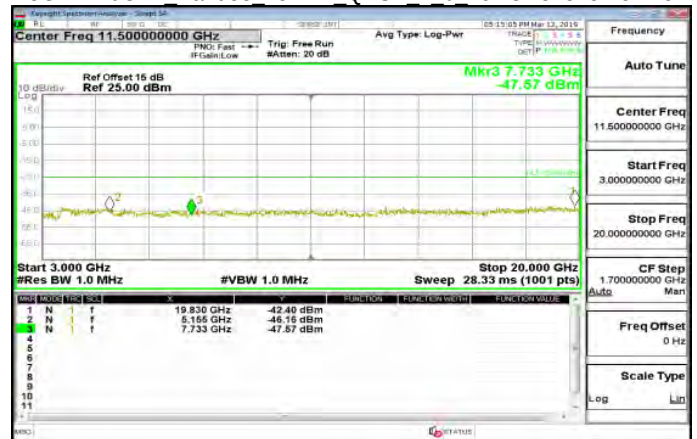
30MHz~3GHz Band38 15MHz QPSK 1 0 LowCH37825-2577.5



30MHz~3GHz Band38 10MHz QPSK 1 0 HighCH38200-2615



3GHz~10GHz Band38 15MHz QPSK 1 0 LowCH37825-2577.5



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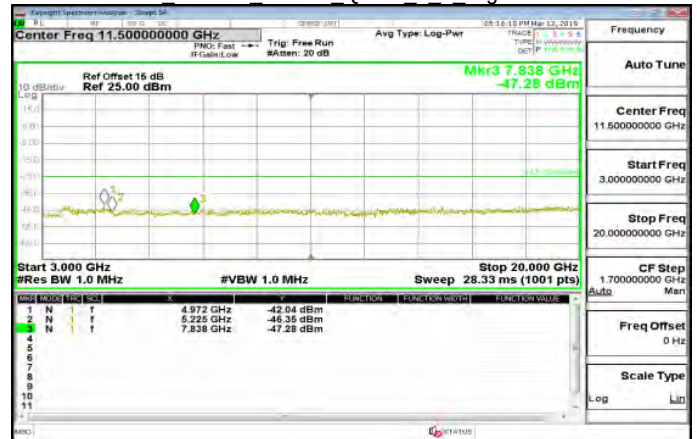
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30MHz~3GHz Band38 15MHz QPSK 1 0 MidCH38000-2595



3GHz~10GHz Band38 15MHz QPSK 1 0 HighCH38175-2612.5



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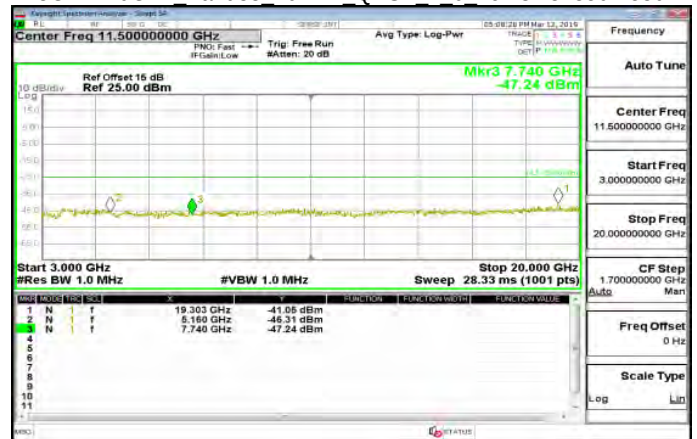
30MHz~3GHz Band38 20MHz QPSK 1 0 LowCH37850-2580



30MHz~3GHz Band38 15MHz QPSK 1 0 HighCH38175-2612.5



3GHz~10GHz Band38 20MHz QPSK 1 0 LowCH37850-2580



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30MHz~3GHz Band38 20MHz QPSK 1 0 MidCH38000-2595



3GHz~10GHz Band38 20MHz QPSK 1 0 HighCH38150-2610



3GHz~10GHz Band38 20MHz QPSK 1 0 MidCH38000-2595



30MHz~3GHz Band38 20MHz QPSK 1 0 HighCH38150-2610



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9. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

9.1. Standard Applicable

According to FCC §2.1053,

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

§27.53 (c)

(2) On any frequency outside the 776– 788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log (P)$ dB (-13dBm)

(4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $65 + 10 \log (P)$ dB in a 6.25 kHz band segment, for mobile and portable stations;

§27.53 (f) For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

FCC §27.53(c) (5) & FCC §27.53(g)

Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

FCC §27.53(h) (3)

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

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FCC §27.53(m) (4) (6)

For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

Measurement procedure. Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed; for mobile digital stations, in the 1 megahertz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed, except when the 1 megahertz band is 2495-2496 MHz, in which case a resolution bandwidth of at least one percent may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 megahertz or 1 percent of emission bandwidth, as specified; or 1 megahertz or 2 percent for mobile digital stations, except in the band 2495-2496 MHz). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power. With respect to television operations, measurements must be made of the separate visual and aural operating powers at sufficiently frequent intervals to ensure compliance with the rules.

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

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

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

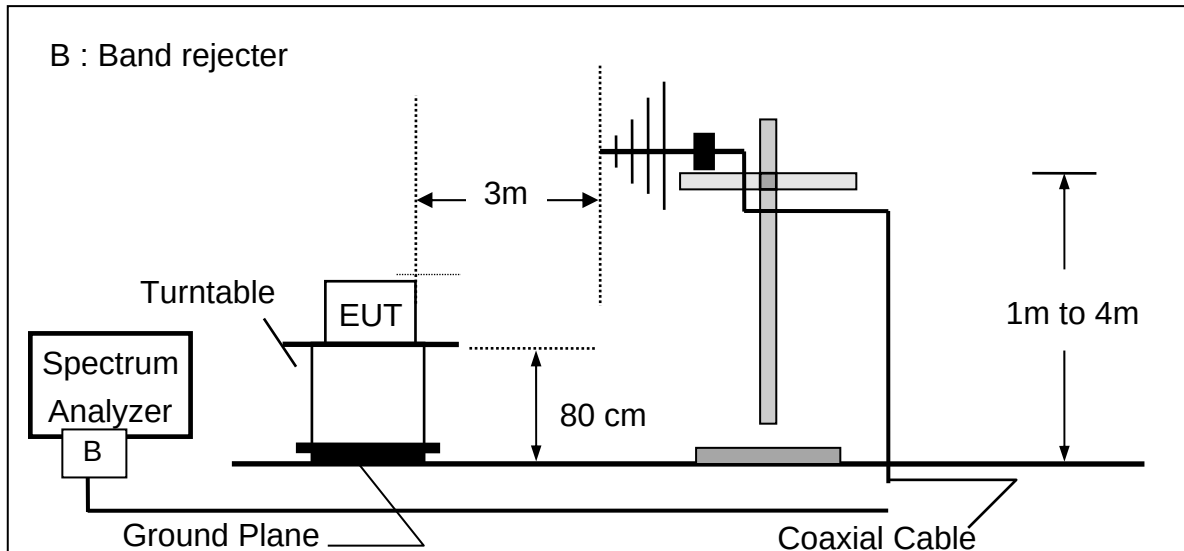
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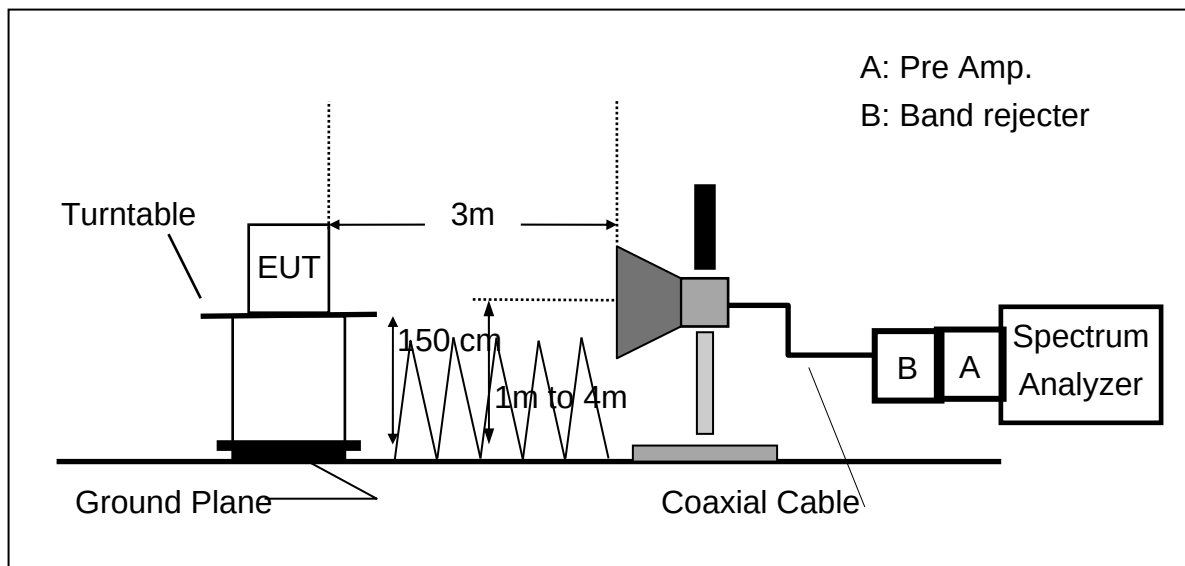
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9.2. EUT Setup

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.

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

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9.4. Measurement Equipment Used:

966A Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
PSA Series Spectrum Analyzer	Agilent	E4446A	MY46180323	05/31/2018	05/30/2019
Digital Thermo-Hygro Meter	WISEWIND	1206	D07	01/30/2019	01/29/2020
Pre-Amplifier	MITEQ	AMF-6F-260400-40-8P	985646	02/26/2019	02/25/2020
Pre-Amplifier	EMEC	EM330	060609	02/26/2019	02/25/2020
Pre-Amplifier	HP	8449B	3008A00965	02/26/2019	02/25/2020
Horn Antenna	Schwarzbeck	BBHA9170	184	12/27/2018	12/26/2019
Horn Antenna	ETS LINDGREN	3116	00026370	12/26/2018	12/25/2019
Horn Antenna	SCHWARZBECK	BBHA 9120D	779	03/09/2019	03/08/2020
Bilog Antenna	Sunol Sciences	JB3	A030105	07/13/2018	07/12/2019
Bilog Antenna	Sunol Sciences	JB1	A052609	03/06/2019	03/05/2020
double Ridged Guide Horn Antenna	ETC	MCTD 1209	DRH13M02003	08/20/2018	08/19/2019
Loop Antenna	ETS.LINDGREN	6502	148045	10/08/2018	10/07/2019
High Pass Filter	SOLVANG TECHNOLOGY INC.	STI15	9923	02/26/2019	02/25/2020
High Pass Filters	MICRO TRON-ICS	HPM13195	003	02/26/2019	02/25/2020
Band Reject Filters	MICRO TRON-ICS	BRM 50702	120	02/26/2019	02/25/2020
Attenuator	Marvelous	MVE2213-10	RF80	02/26/2019	02/25/2020
Digital Radio Communication Tester	R&S	CMU200	100535	09/17/2018	09/16/2019
Wideband Radio Communication Tester	R&S	CMW 500	116875	04/20/2018	04/19/2019
Cable	HUBER SUHNER	SUCOFLEX 104PEA	25157	02/26/2019	02/25/2020
Cable	HUBER SUHNER	SUCOFLEX 104PEA	20995	02/26/2019	02/25/2020
Software	e3 V6.11-20180413				

Note: WPC wireless charging functions are implemented in field strength of spurious radiation measurement.

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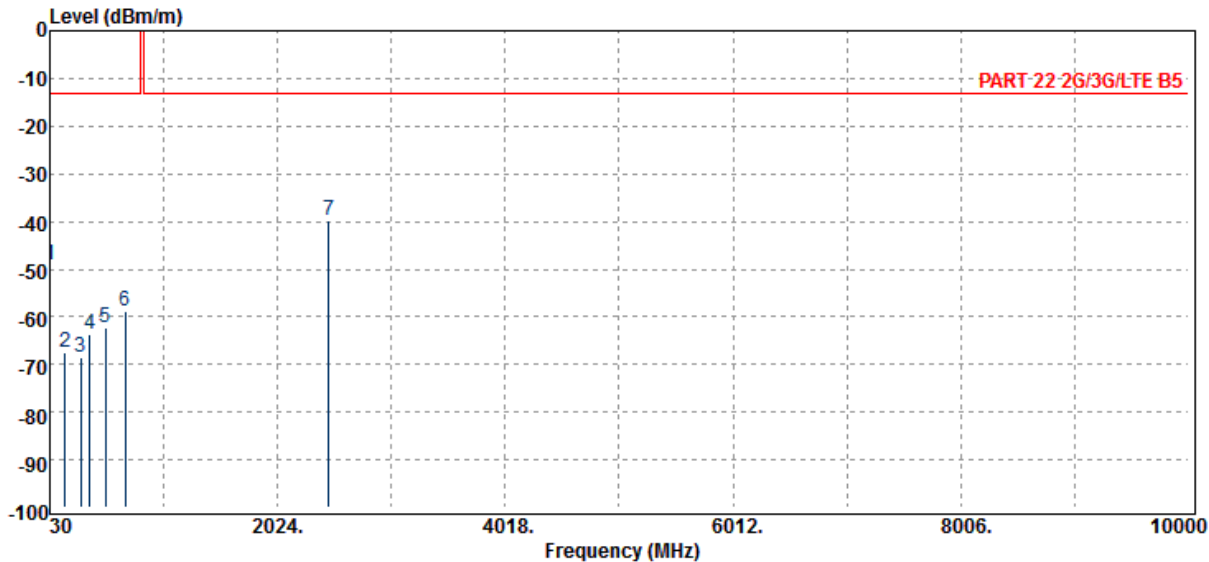
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9.5. Measurement Result:

Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Band	:GSM 850	Test Date	:2019-03-28
Fundamental Frequency	:824.2 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH LOW	Engineer	:Kane
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



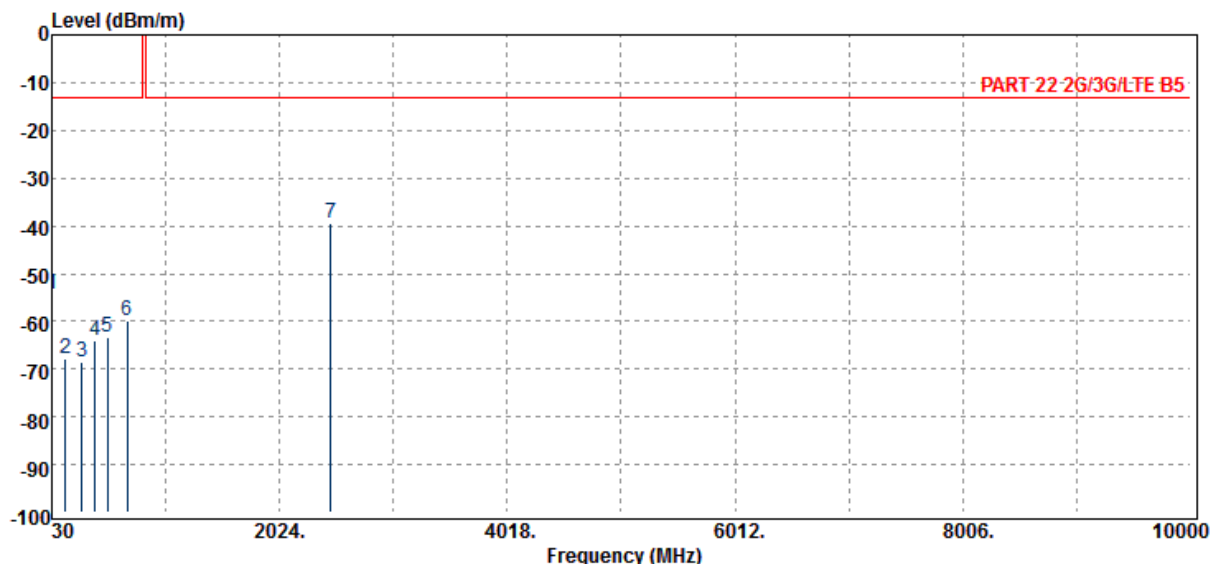
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-49.18	-18.81	-30.05	-0.45	0.13	-13.00	-36.18
160.95	-67.65	-60.55	-6.17	-1.05	0.12	-13.00	-54.65
299.66	-68.68	-65.39	-1.96	-1.43	0.10	-13.00	-55.68
377.26	-63.55	-60.57	-1.60	-1.61	0.24	-13.00	-50.55
519.85	-62.22	-59.02	-1.45	-1.91	0.16	-13.00	-49.22
687.66	-58.95	-56.27	-1.35	-2.21	0.87	-13.00	-45.95
2472.60	-39.89	-46.50	10.69	-4.46	0.38	-13.00	-26.89

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Operation Band	:GSM 850	Test Date	:2019-03-28
Fundamental Frequency	:824.2 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH LOW	Engineer	:Kane
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-54.41	-24.04	-30.05	-0.45	0.13	-13.00	-41.41
148.34	-67.66	-59.46	-7.31	-1.00	0.12	-13.00	-54.66
294.81	-68.38	-64.91	-2.15	-1.42	0.10	-13.00	-55.38
410.24	-64.14	-60.97	-1.75	-1.68	0.26	-13.00	-51.14
519.85	-63.45	-60.26	-1.45	-1.91	0.16	-13.00	-50.45
687.66	-59.84	-57.15	-1.35	-2.21	0.87	-13.00	-46.84
2472.60	-39.61	-46.22	10.69	-4.46	0.38	-13.00	-26.61

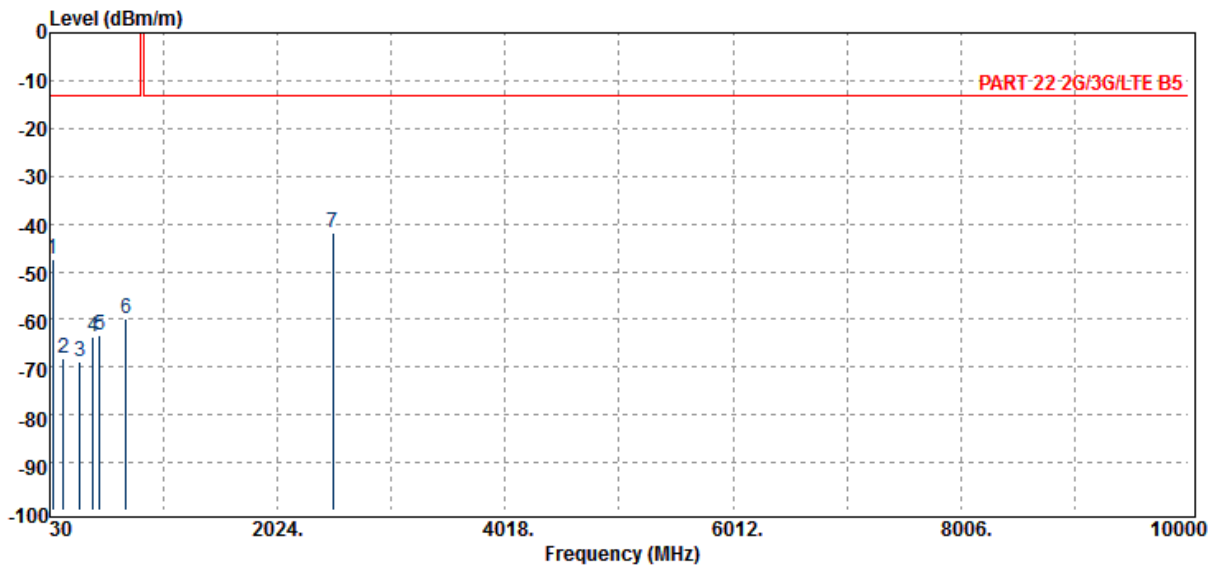
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Operation Band :GSM 850
Fundamental Frequency :836.6 MHz
Operation Mode :Tx CH MID
EUT Pol. :E1 Plane

Test Date :2019-03-28
Temp./Humi. :22 deg_C / 61 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
54.25	-47.36	-36.12	-10.75	-0.62	0.14	-13.00	-34.36
148.34	-68.11	-59.92	-7.31	-1.00	0.12	-13.00	-55.11
291.90	-68.74	-65.28	-2.15	-1.41	0.10	-13.00	-55.74
406.36	-63.72	-60.56	-1.75	-1.67	0.27	-13.00	-50.72
469.41	-63.39	-59.44	-2.34	-1.80	0.18	-13.00	-50.39
696.39	-59.86	-57.19	-1.38	-2.22	0.93	-13.00	-46.86
2509.80	-41.82	-48.40	10.80	-4.59	0.37	-13.00	-28.82

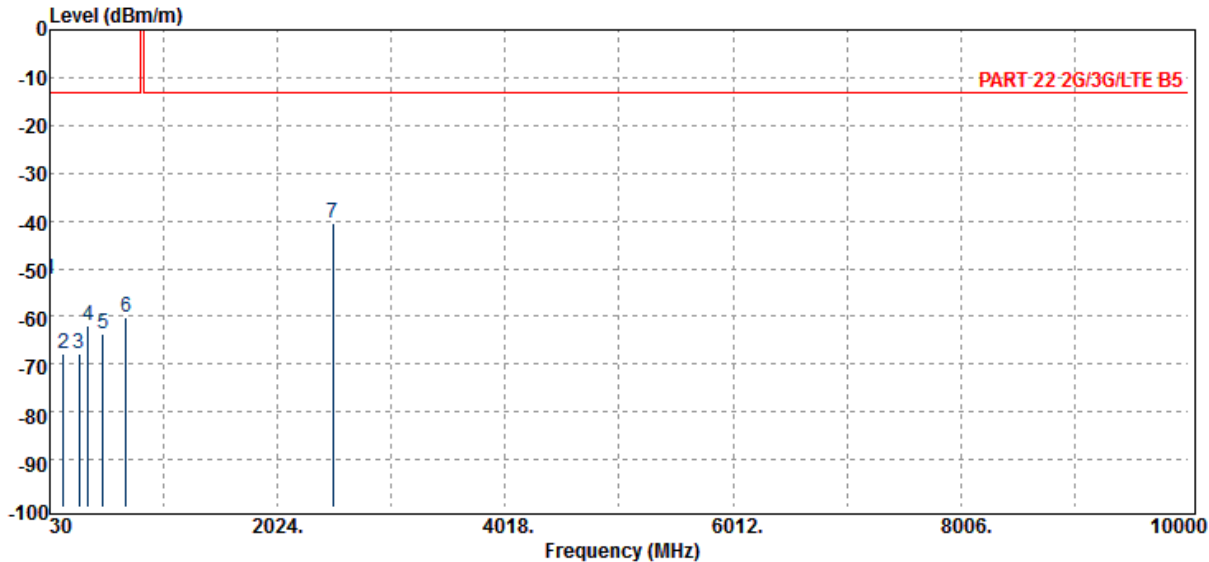
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Operation Band :GSM 850
Fundamental Frequency :836.6 MHz
Operation Mode :Tx CH MID
EUT Pol. :E1 Plane

Test Date :2019-03-28
Temp./Humi. :22 deg_C / 61 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



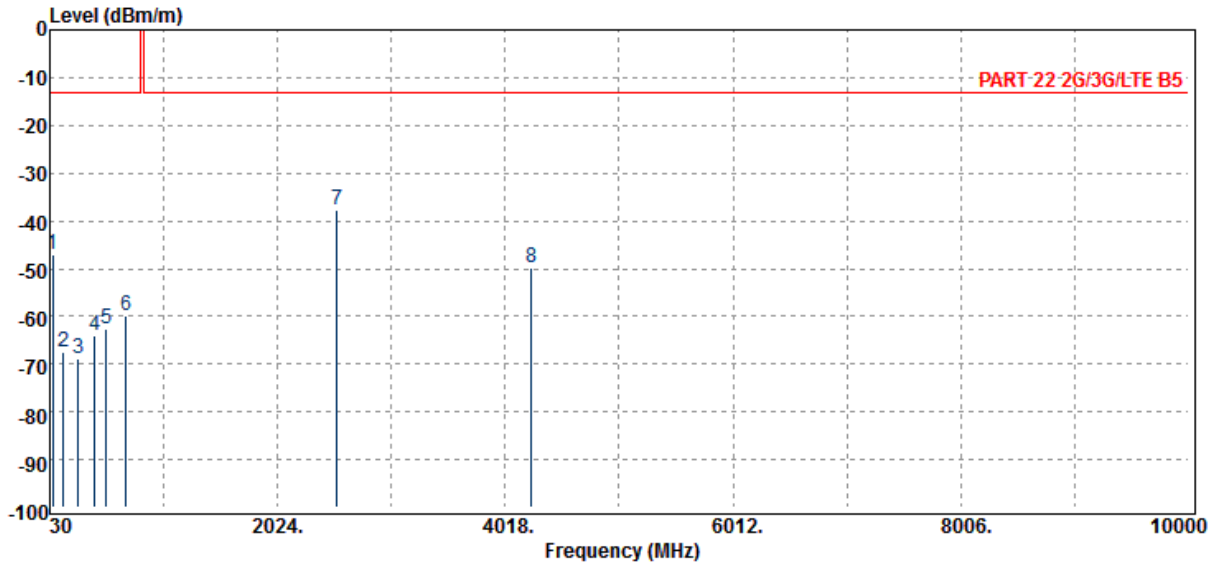
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-52.38	-22.01	-30.05	-0.45	0.13	-13.00	-39.38
148.34	-67.85	-59.66	-7.31	-1.00	0.12	-13.00	-54.85
288.99	-67.96	-64.44	-2.21	-1.41	0.10	-13.00	-54.96
364.65	-61.99	-58.87	-1.76	-1.58	0.22	-13.00	-48.99
493.66	-63.62	-59.82	-2.10	-1.86	0.15	-13.00	-50.62
696.39	-60.30	-57.63	-1.38	-2.22	0.93	-13.00	-47.30
2509.80	-40.55	-47.13	10.80	-4.59	0.37	-13.00	-27.55

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Operation Band	:GSM 850	Test Date	:2019-03-28
Fundamental Frequency	:848.8 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH HIGH	Engineer	:Kane
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



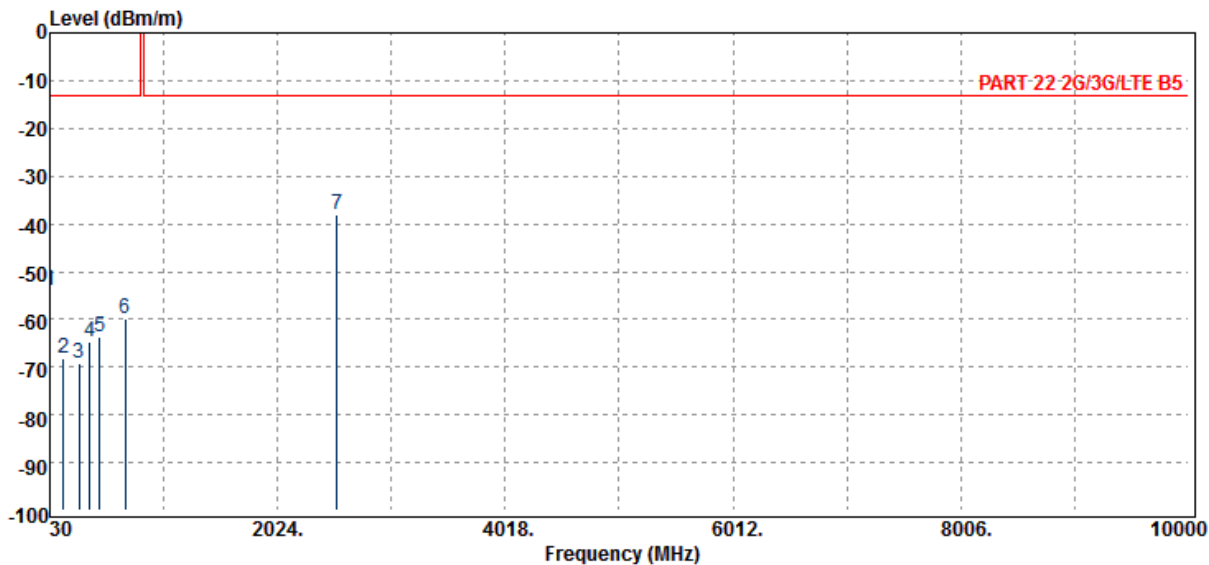
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
56.19	-46.92	-35.93	-10.50	-0.63	0.13	-13.00	-33.92
149.31	-67.61	-59.51	-7.22	-1.00	0.12	-13.00	-54.61
280.26	-68.80	-64.97	-2.54	-1.38	0.10	-13.00	-55.80
419.94	-63.85	-60.55	-1.85	-1.70	0.25	-13.00	-50.85
526.64	-62.74	-59.64	-1.35	-1.92	0.17	-13.00	-49.74
697.36	-59.94	-57.26	-1.40	-2.22	0.94	-13.00	-46.94
2546.40	-37.83	-44.39	10.80	-4.59	0.35	-13.00	-24.83
4244.00	-49.71	-56.77	12.81	-6.16	0.40	-13.00	-36.71

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Operation Band	:GSM 850	Test Date	:2019-03-28
Fundamental Frequency	:848.8 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH HIGH	Engineer	:Kane
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-54.12	-23.75	-30.05	-0.45	0.13	-13.00	-41.12
148.34	-68.29	-60.10	-7.31	-1.00	0.12	-13.00	-55.29
285.11	-69.22	-65.48	-2.44	-1.40	0.10	-13.00	-56.22
379.20	-64.53	-61.60	-1.57	-1.61	0.24	-13.00	-51.53
468.44	-63.61	-59.68	-2.32	-1.80	0.18	-13.00	-50.61
691.54	-60.00	-57.33	-1.35	-2.22	0.90	-13.00	-47.00
2546.40	-38.02	-44.58	10.80	-4.59	0.35	-13.00	-25.02

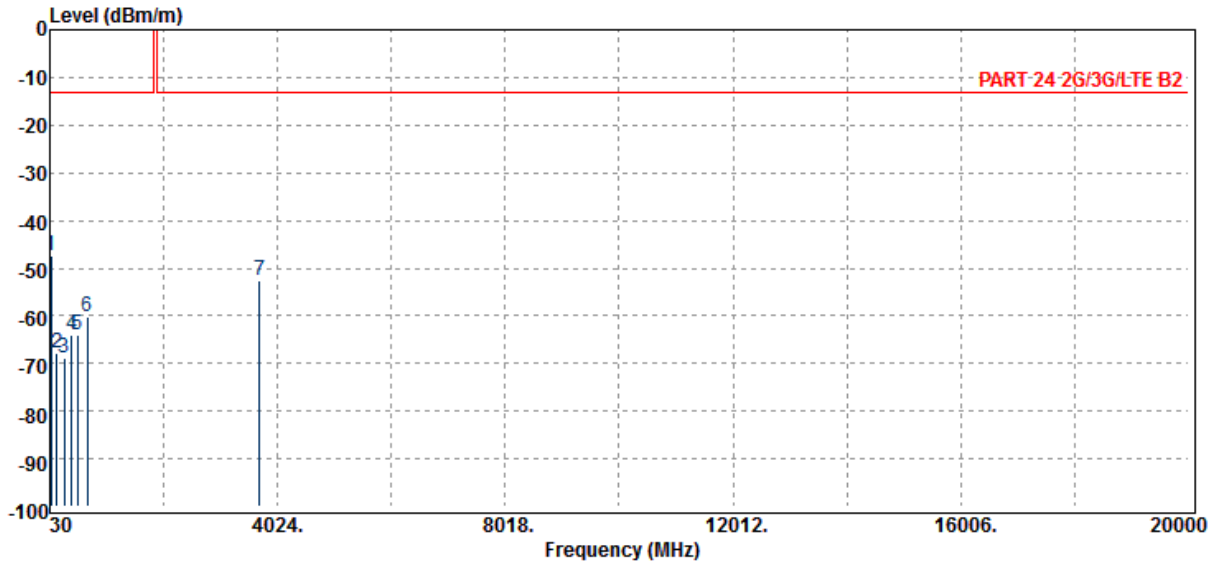
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Radiated Spurious Emission Measurement Result: GSM 1900 Mode

Operation Band	:GSM 1900	Test Date	:2019-03-28
Fundamental Frequency	:1850.2 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH LOW	Engineer	:Kane
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



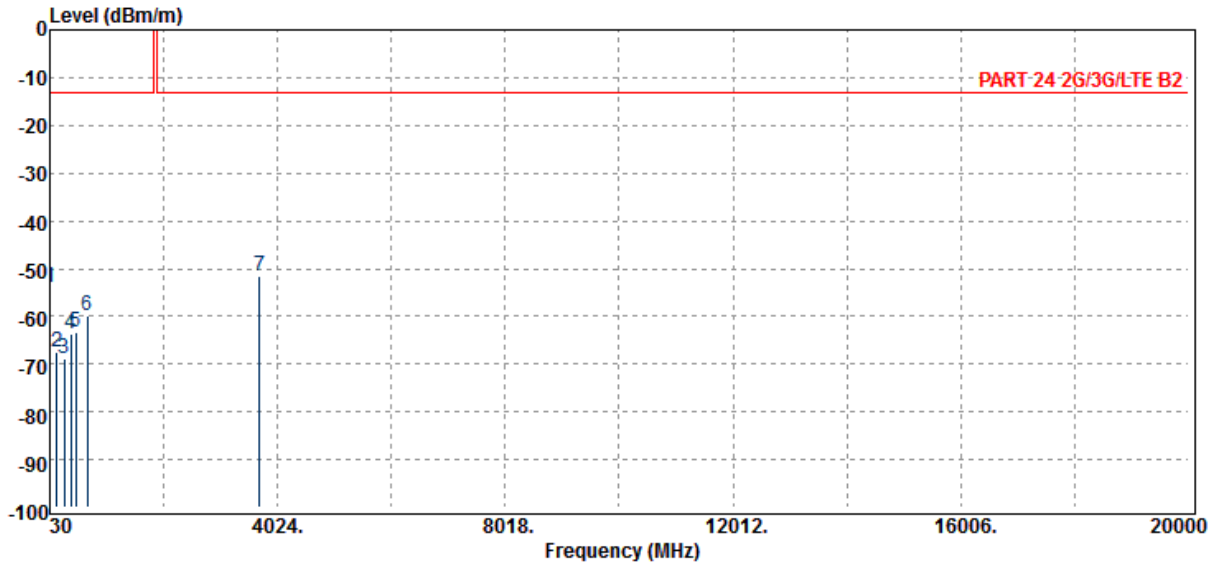
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
56.19	-47.24	-36.14	-10.50	-0.63	0.03	-13.00	-34.24
146.40	-67.80	-59.34	-7.51	-1.00	0.04	-13.00	-54.80
289.96	-68.83	-65.30	-2.15	-1.41	0.03	-13.00	-55.83
406.36	-64.03	-60.68	-1.75	-1.67	0.08	-13.00	-51.03
512.09	-63.85	-60.60	-1.57	-1.90	0.21	-13.00	-50.85
689.60	-60.11	-56.85	-1.35	-2.21	0.30	-13.00	-47.11
3700.40	-52.70	-59.61	12.50	-5.72	0.13	-13.00	-39.70

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Operation Band	:GSM 1900	Test Date	:2019-03-28
Fundamental Frequency	:1850.2 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH LOW	Engineer	:Kane
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-53.96	-23.50	-30.05	-0.45	0.04	-13.00	-40.96
156.10	-67.60	-59.97	-6.64	-1.03	0.04	-13.00	-54.60
285.11	-68.86	-65.05	-2.44	-1.40	0.03	-13.00	-55.86
405.39	-63.82	-60.48	-1.75	-1.67	0.08	-13.00	-50.82
487.84	-63.32	-59.39	-2.29	-1.84	0.20	-13.00	-50.32
681.84	-59.92	-56.73	-1.29	-2.20	0.29	-13.00	-46.92
3700.40	-51.50	-58.41	12.50	-5.72	0.13	-13.00	-38.50

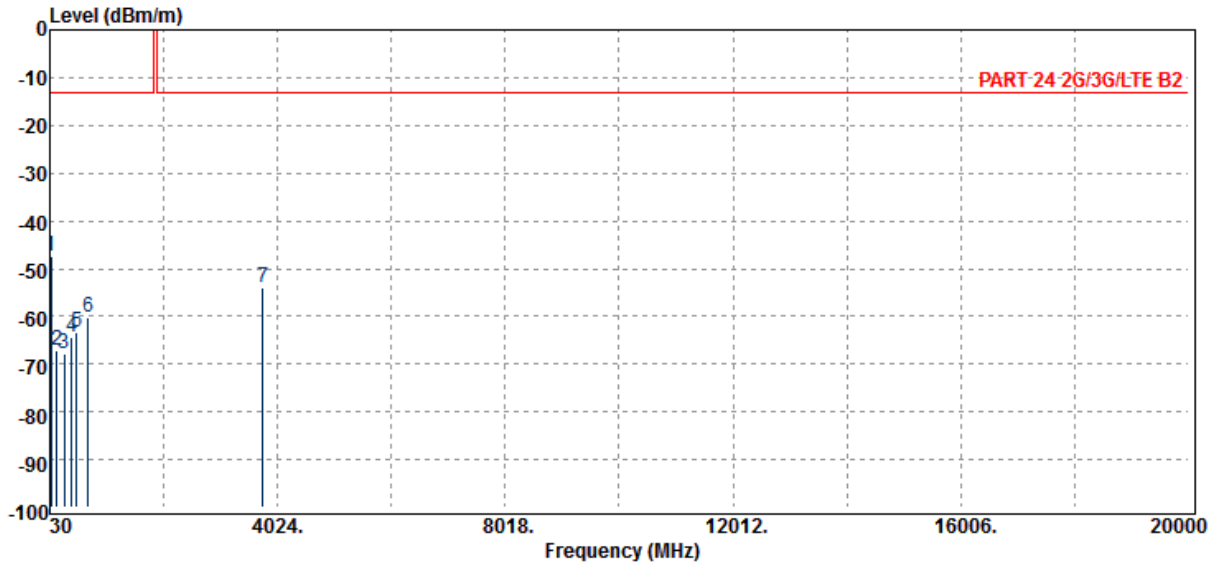
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Operation Band :GSM 1900
Fundamental Frequency :1880 MHz
Operation Mode :Tx CH MID
EUT Pol. :E1 Plane

Test Date :2019-03-28
Temp./Humi. :22 deg_C / 61 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
54.25	-47.42	-36.07	-10.75	-0.62	0.03	-13.00	-34.42
146.40	-67.28	-58.82	-7.51	-1.00	0.04	-13.00	-54.28
284.14	-67.77	-63.94	-2.47	-1.39	0.03	-13.00	-54.77
406.36	-64.26	-60.91	-1.75	-1.67	0.08	-13.00	-51.26
495.60	-63.16	-59.47	-2.04	-1.86	0.21	-13.00	-50.16
697.36	-60.31	-57.01	-1.40	-2.22	0.31	-13.00	-47.31
3760.00	-54.08	-60.93	12.42	-5.69	0.12	-13.00	-41.08

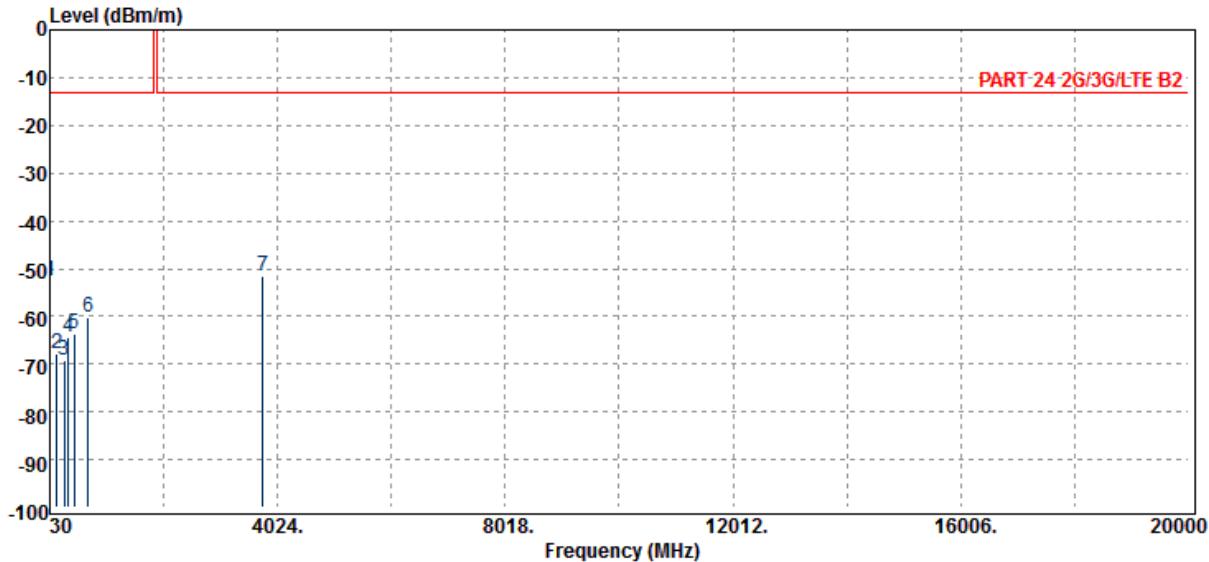
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Operation Band :GSM 1900
Fundamental Frequency :1880 MHz
Operation Mode :Tx CH MID
EUT Pol. :E1 Plane

Test Date :2019-03-28
Temp./Humi. :22 deg_C / 61 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



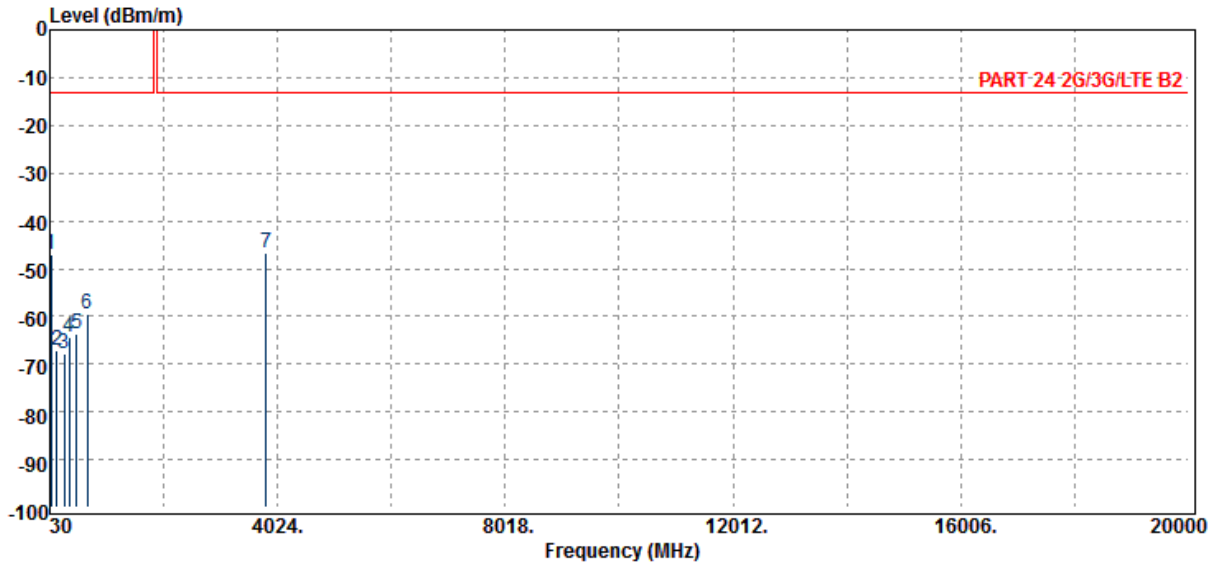
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-52.65	-22.18	-30.05	-0.45	0.04	-13.00	-39.65
153.19	-67.73	-59.86	-6.89	-1.02	0.04	-13.00	-54.73
279.29	-69.08	-65.17	-2.56	-1.38	0.03	-13.00	-56.08
357.86	-64.48	-61.15	-1.81	-1.57	0.05	-13.00	-51.48
454.86	-63.51	-59.85	-2.05	-1.77	0.15	-13.00	-50.51
697.36	-60.15	-56.85	-1.40	-2.22	0.31	-13.00	-47.15
3760.00	-51.51	-58.37	12.42	-5.69	0.12	-13.00	-38.51

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Operation Band	:GSM 1900	Test Date	:2019-03-28
Fundamental Frequency	:1909.8 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH HIGH	Engineer	:Kane
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



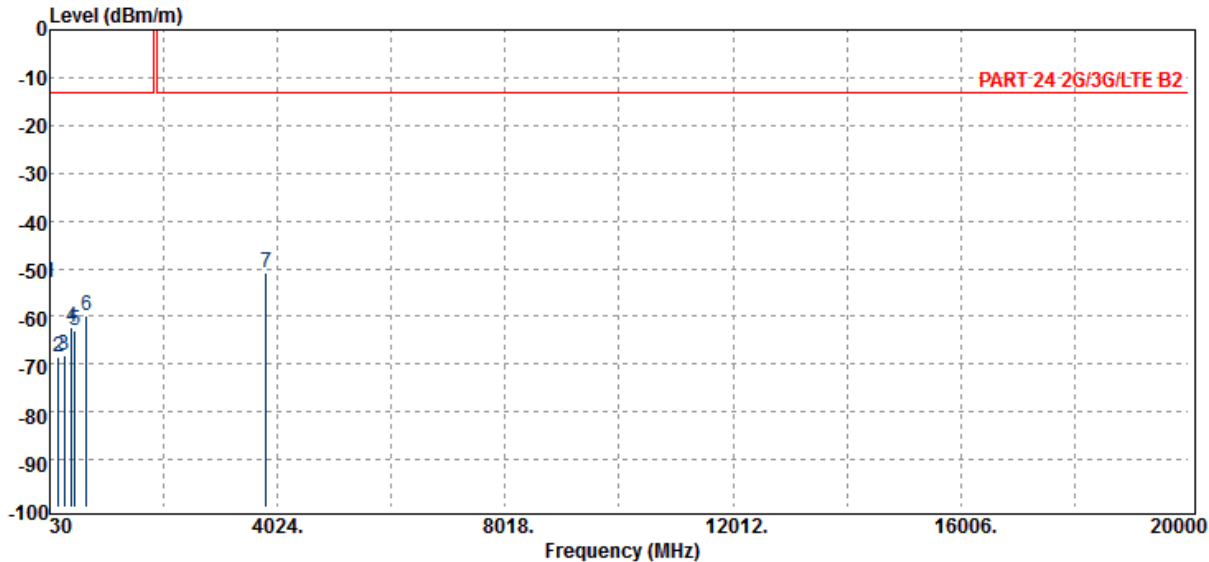
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
56.19	-47.23	-36.13	-10.50	-0.63	0.03	-13.00	-34.23
149.31	-67.12	-58.94	-7.22	-1.00	0.04	-13.00	-54.12
285.11	-67.82	-64.01	-2.44	-1.40	0.03	-13.00	-54.82
364.65	-64.25	-60.97	-1.76	-1.58	0.06	-13.00	-51.25
495.60	-63.66	-59.98	-2.04	-1.86	0.21	-13.00	-50.66
689.60	-59.57	-56.31	-1.35	-2.21	0.30	-13.00	-46.57
3819.60	-46.55	-53.37	12.46	-5.76	0.12	-13.00	-33.55

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Operation Band	:GSM 1900	Test Date	:2019-03-28
Fundamental Frequency	:1909.8 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH HIGH	Engineer	:Kane
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-53.08	-22.61	-30.05	-0.45	0.04	-13.00	-40.08
175.50	-68.39	-62.45	-4.90	-1.09	0.05	-13.00	-55.39
289.96	-68.18	-64.65	-2.15	-1.41	0.03	-13.00	-55.18
410.24	-62.20	-58.85	-1.75	-1.68	0.08	-13.00	-49.20
469.41	-62.88	-58.92	-2.34	-1.80	0.18	-13.00	-49.88
679.90	-59.73	-56.57	-1.25	-2.20	0.29	-13.00	-46.73
3819.60	-50.79	-57.61	12.46	-5.76	0.12	-13.00	-37.79

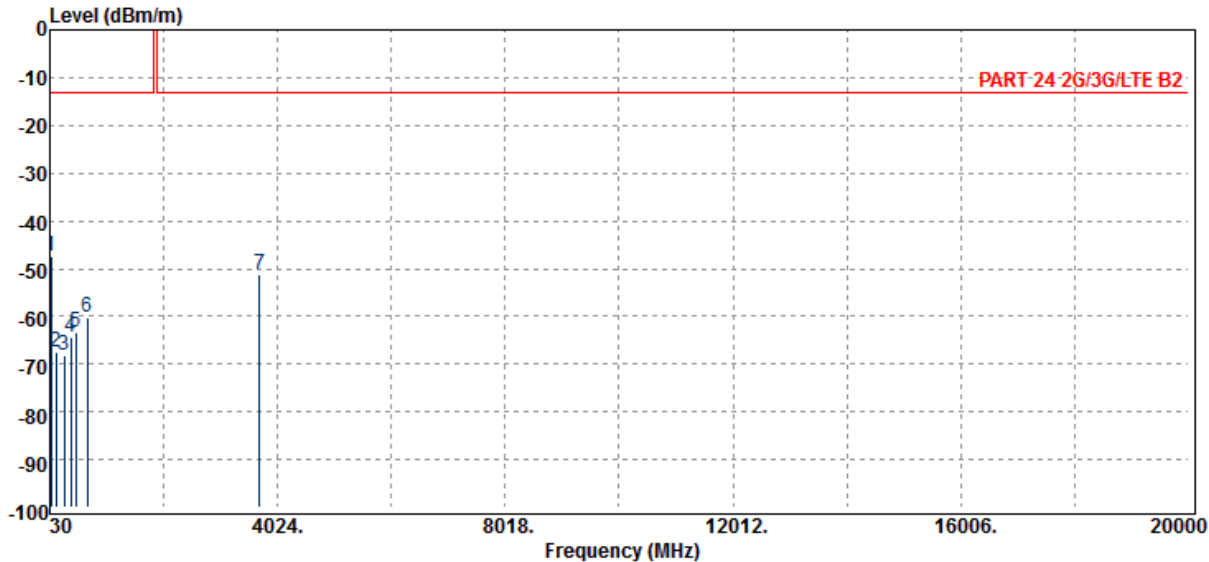
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Radiated Spurious Emission Measurement Result: WCDMA Band 2 Mode

Operation Band	:WCDMA B2	Test Date	:2019-03-28
Fundamental Frequency	:1852.4 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH LOW	Engineer	:Kane
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
56.19	-47.34	-36.23	-10.50	-0.63	0.03	-13.00	-34.34
141.55	-67.60	-58.39	-8.27	-0.98	0.04	-13.00	-54.60
282.20	-68.09	-64.22	-2.51	-1.39	0.03	-13.00	-55.09
405.39	-64.46	-61.12	-1.75	-1.67	0.08	-13.00	-51.46
483.96	-63.37	-59.36	-2.37	-1.83	0.20	-13.00	-50.37
692.51	-60.05	-56.79	-1.35	-2.22	0.31	-13.00	-47.05
3704.80	-51.32	-58.22	12.49	-5.72	0.13	-13.00	-38.32

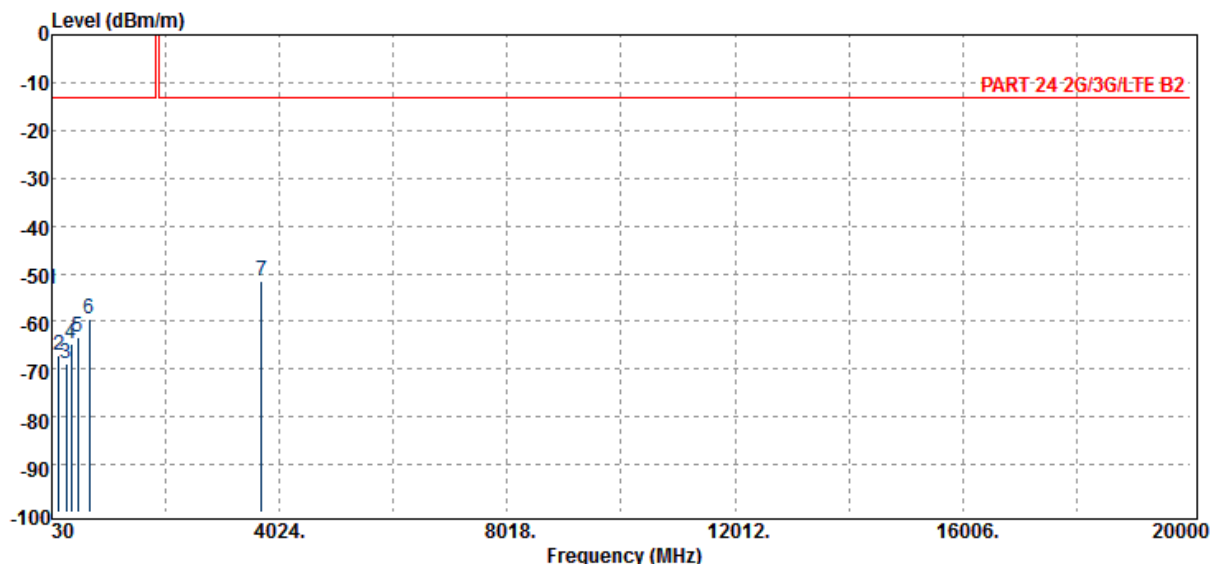
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Operation Band :WCDMA B2
Fundamental Frequency :1852.4 MHz
Operation Mode :Tx CH LOW
EUT Pol. :E1 Plane

Test Date :2019-03-28
Temp./Humi. :22 deg_C / 61 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



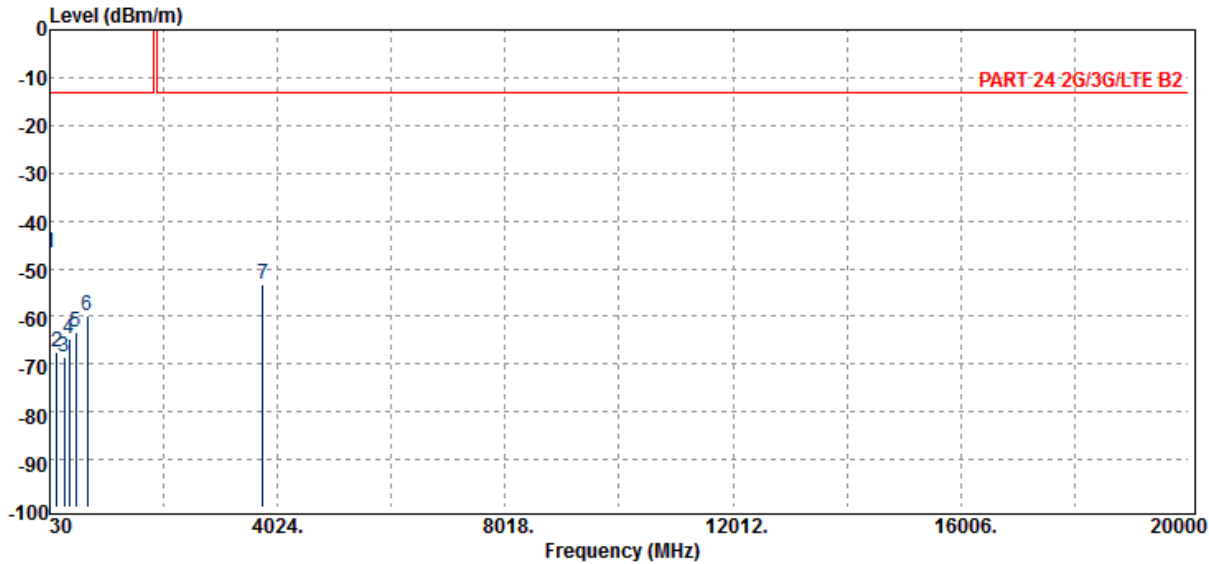
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-53.31	-22.85	-30.05	-0.45	0.04	-13.00	-40.31
146.40	-67.04	-58.58	-7.51	-1.00	0.04	-13.00	-54.04
284.14	-68.98	-65.15	-2.47	-1.39	0.03	-13.00	-55.98
371.44	-64.60	-61.34	-1.72	-1.60	0.06	-13.00	-51.60
488.81	-63.29	-59.37	-2.27	-1.84	0.20	-13.00	-50.29
694.45	-59.34	-56.08	-1.35	-2.22	0.31	-13.00	-46.34
3704.80	-51.60	-58.50	12.49	-5.72	0.13	-13.00	-38.60

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Operation Band	:WCDMA B2	Test Date	:2019-03-28
Fundamental Frequency	:1880 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH MID	Engineer	:Kane
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
31.94	-46.75	-18.22	-28.10	-0.47	0.03	-13.00	-33.75
149.31	-67.31	-59.13	-7.22	-1.00	0.04	-13.00	-54.31
288.99	-68.47	-64.89	-2.21	-1.41	0.03	-13.00	-55.47
364.65	-64.54	-61.26	-1.76	-1.58	0.06	-13.00	-51.54
490.75	-63.30	-59.44	-2.22	-1.85	0.21	-13.00	-50.30
692.51	-59.80	-56.54	-1.35	-2.22	0.31	-13.00	-46.80
3760.00	-53.20	-60.05	12.42	-5.69	0.12	-13.00	-40.20

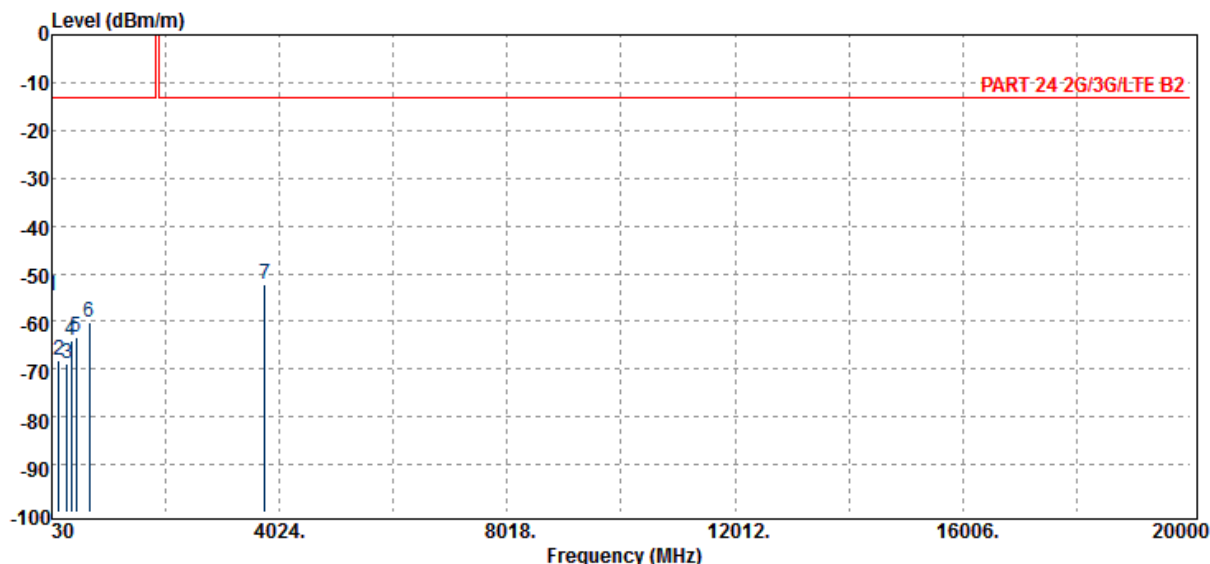
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Operation Band :WCDMA B2
Fundamental Frequency :1880 MHz
Operation Mode :Tx CH MID
EUT Pol. :E1 Plane

Test Date :2019-03-28
Temp./Humi. :22 deg_C / 61 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-54.52	-24.05	-30.05	-0.45	0.04	-13.00	-41.52
151.25	-68.03	-60.01	-7.05	-1.01	0.04	-13.00	-55.03
299.66	-68.97	-65.61	-1.96	-1.43	0.03	-13.00	-55.97
376.29	-64.04	-60.87	-1.62	-1.61	0.06	-13.00	-51.04
458.74	-63.17	-59.50	-2.05	-1.78	0.16	-13.00	-50.17
694.45	-60.21	-56.95	-1.35	-2.22	0.31	-13.00	-47.21
3760.00	-52.30	-59.15	12.42	-5.69	0.12	-13.00	-39.30

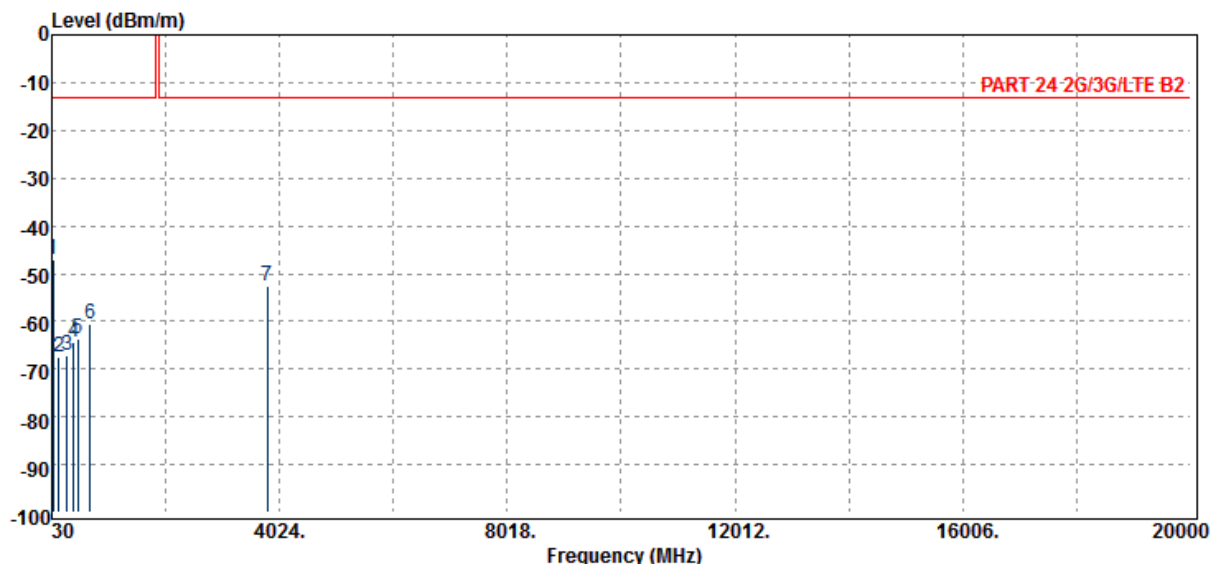
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Operation Band :WCDMA B2
Fundamental Frequency :1907.6 MHz
Operation Mode :Tx CH HIGH
EUT Pol. :E1 Plane

Test Date :2019-03-28
Temp./Humi. :22 deg_C / 61 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



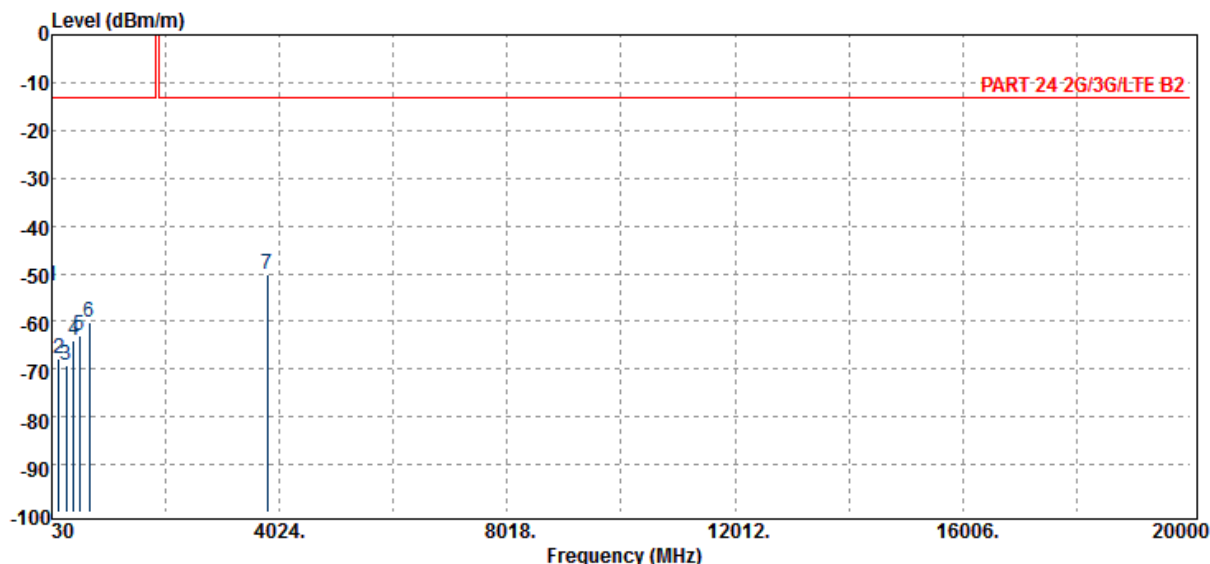
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
52.31	-47.18	-35.31	-11.29	-0.61	0.03	-13.00	-34.18
146.40	-67.61	-59.15	-7.51	-1.00	0.04	-13.00	-54.61
294.81	-67.17	-63.63	-2.15	-1.42	0.03	-13.00	-54.17
408.30	-64.30	-60.95	-1.75	-1.68	0.08	-13.00	-51.30
487.84	-63.64	-59.71	-2.29	-1.84	0.20	-13.00	-50.64
696.39	-60.64	-57.35	-1.38	-2.22	0.31	-13.00	-47.64
3815.20	-52.55	-59.38	12.47	-5.76	0.12	-13.00	-39.55

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Operation Band	:WCDMA B2	Test Date	:2019-03-28
Fundamental Frequency	:1907.6 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH HIGH	Engineer	:Kane
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-52.64	-22.18	-30.05	-0.45	0.04	-13.00	-39.64
149.31	-67.81	-59.63	-7.22	-1.00	0.04	-13.00	-54.81
285.11	-69.15	-65.35	-2.44	-1.40	0.03	-13.00	-56.15
413.15	-64.05	-60.64	-1.81	-1.69	0.09	-13.00	-51.05
516.94	-62.90	-59.76	-1.45	-1.90	0.21	-13.00	-49.90
691.54	-60.38	-57.12	-1.35	-2.22	0.30	-13.00	-47.38
3815.20	-50.32	-57.15	12.47	-5.76	0.12	-13.00	-37.32

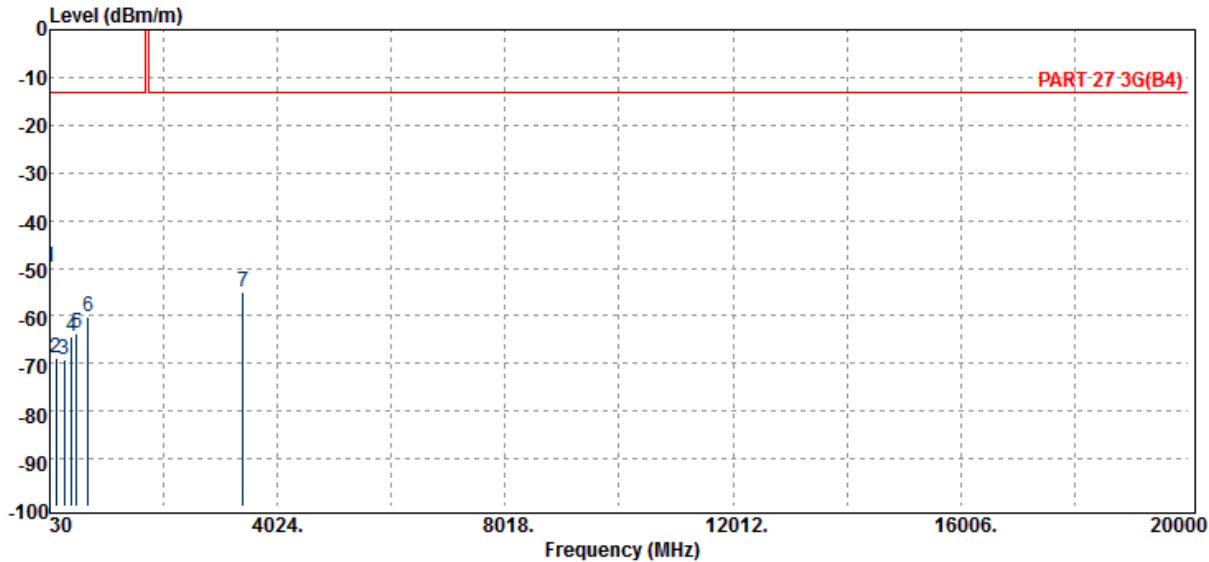
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Radiated Spurious Emission Measurement Result: WCDMA Band 4 Mode

Operation Band	:WCDMA B4	Test Date	:2019-03-28
Fundamental Frequency	:1712.4 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH LOW	Engineer	:Kane
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-49.85	-19.38	-30.05	-0.45	0.04	-13.00	-36.85
144.46	-68.90	-60.20	-7.75	-0.99	0.04	-13.00	-55.90
279.29	-69.23	-65.32	-2.56	-1.38	0.03	-13.00	-56.23
418.00	-64.31	-60.86	-1.85	-1.70	0.10	-13.00	-51.31
498.51	-63.81	-60.18	-1.98	-1.87	0.22	-13.00	-50.81
697.36	-60.36	-57.05	-1.40	-2.22	0.31	-13.00	-47.36
3424.80	-55.08	-62.53	12.75	-5.48	0.18	-13.00	-42.08

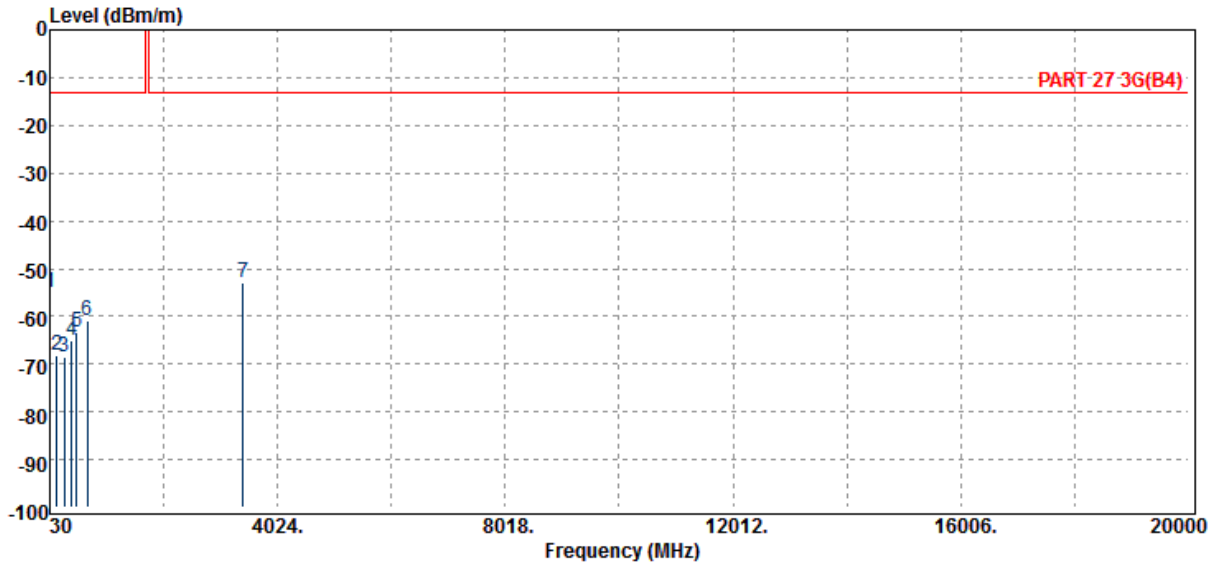
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Operation Band :WCDMA B4
Fundamental Frequency :1712.4 MHz
Operation Mode :Tx CH LOW
EUT Pol. :E1 Plane

Test Date :2019-03-28
Temp./Humi. :22 deg_C / 61 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-54.88	-24.42	-30.05	-0.45	0.04	-13.00	-41.88
148.34	-68.20	-59.93	-7.31	-1.00	0.04	-13.00	-55.20
282.20	-68.37	-64.51	-2.51	-1.39	0.03	-13.00	-55.37
411.21	-65.14	-61.77	-1.77	-1.68	0.09	-13.00	-52.14
502.39	-63.41	-59.85	-1.90	-1.88	0.22	-13.00	-50.41
692.51	-60.97	-57.70	-1.35	-2.22	0.31	-13.00	-47.97
3424.80	-52.91	-60.36	12.75	-5.48	0.18	-13.00	-39.91

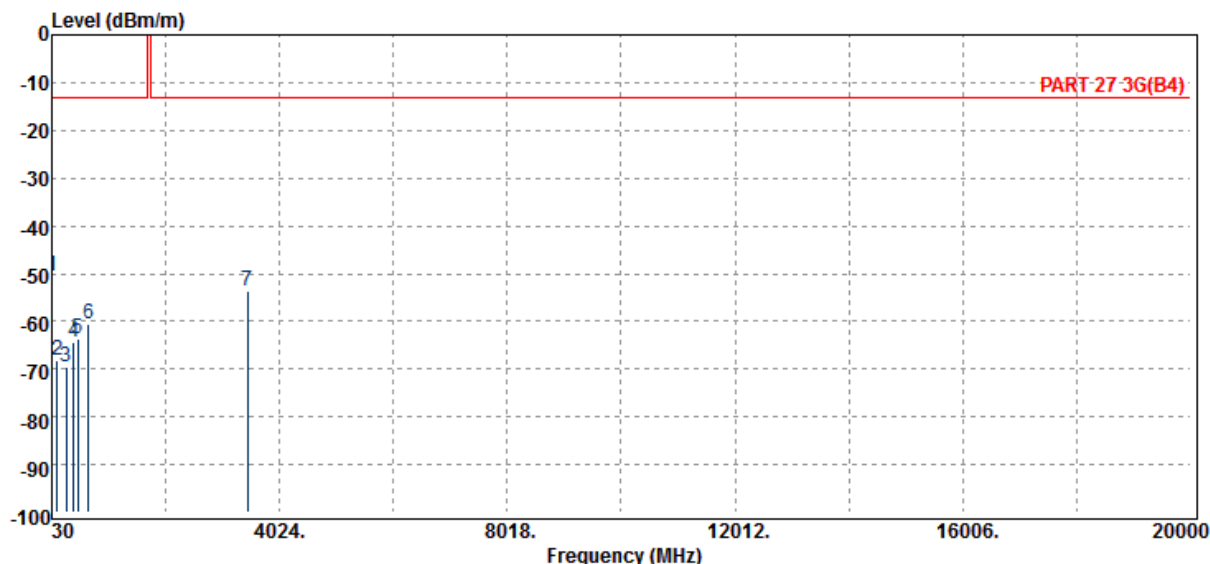
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Operation Band :WCDMA B4
Fundamental Frequency :1732.6 MHz
Operation Mode :Tx CH MID
EUT Pol. :E1 Plane

Test Date :2019-03-28
Temp./Humi. :22 deg_C / 61 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-50.52	-20.05	-30.05	-0.45	0.04	-13.00	-37.52
129.91	-68.02	-56.96	-10.16	-0.94	0.04	-13.00	-55.02
287.05	-69.53	-65.83	-2.33	-1.40	0.03	-13.00	-56.53
411.21	-64.47	-61.10	-1.77	-1.68	0.09	-13.00	-51.47
483.96	-63.54	-59.53	-2.37	-1.83	0.20	-13.00	-50.54
676.99	-60.61	-57.39	-1.31	-2.19	0.29	-13.00	-47.61
3465.20	-53.62	-60.95	12.64	-5.48	0.17	-13.00	-40.62

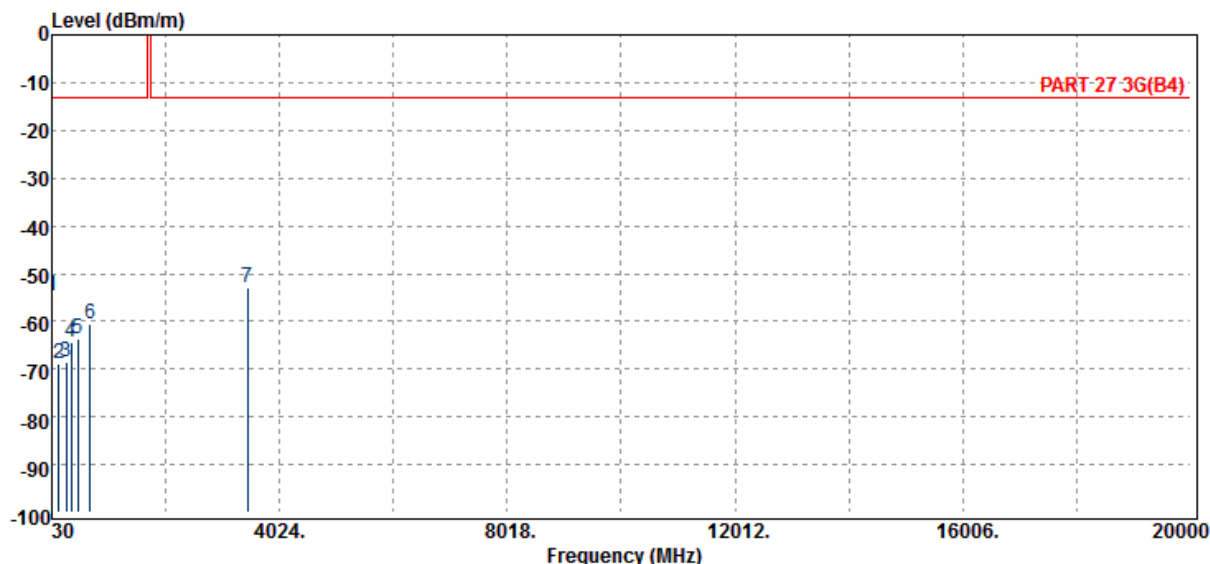
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Operation Band :WCDMA B4
Fundamental Frequency :1732.6 MHz
Operation Mode :Tx CH MID
EUT Pol. :E1 Plane

Test Date :2019-03-28
Temp./Humi. :22 deg_C / 61 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-54.54	-24.07	-30.05	-0.45	0.04	-13.00	-41.54
153.19	-68.70	-60.83	-6.89	-1.02	0.04	-13.00	-55.70
288.99	-68.65	-65.07	-2.21	-1.41	0.03	-13.00	-55.65
376.29	-64.37	-61.19	-1.62	-1.61	0.06	-13.00	-51.37
488.81	-63.71	-59.79	-2.27	-1.84	0.20	-13.00	-50.71
697.36	-60.70	-57.39	-1.40	-2.22	0.31	-13.00	-47.70
3465.20	-52.97	-60.29	12.64	-5.48	0.17	-13.00	-39.97

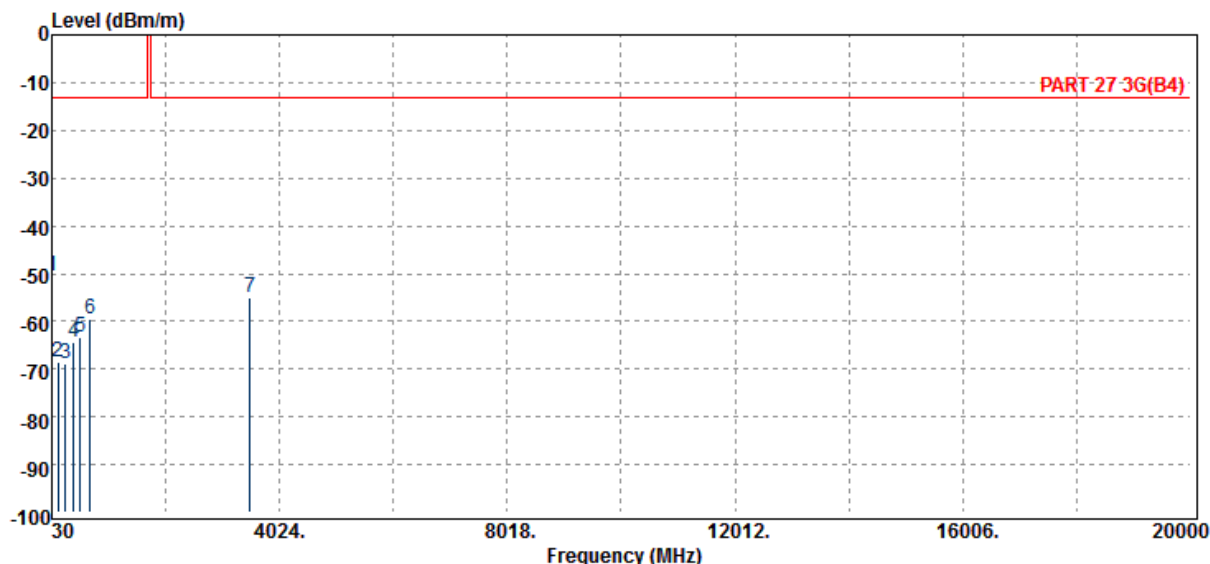
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Operation Band :WCDMA B4
Fundamental Frequency :1752.6 MHz
Operation Mode :Tx CH HIGH
EUT Pol. :E1 Plane

Test Date :2019-03-28
Temp./Humi. :22 deg_C / 61 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



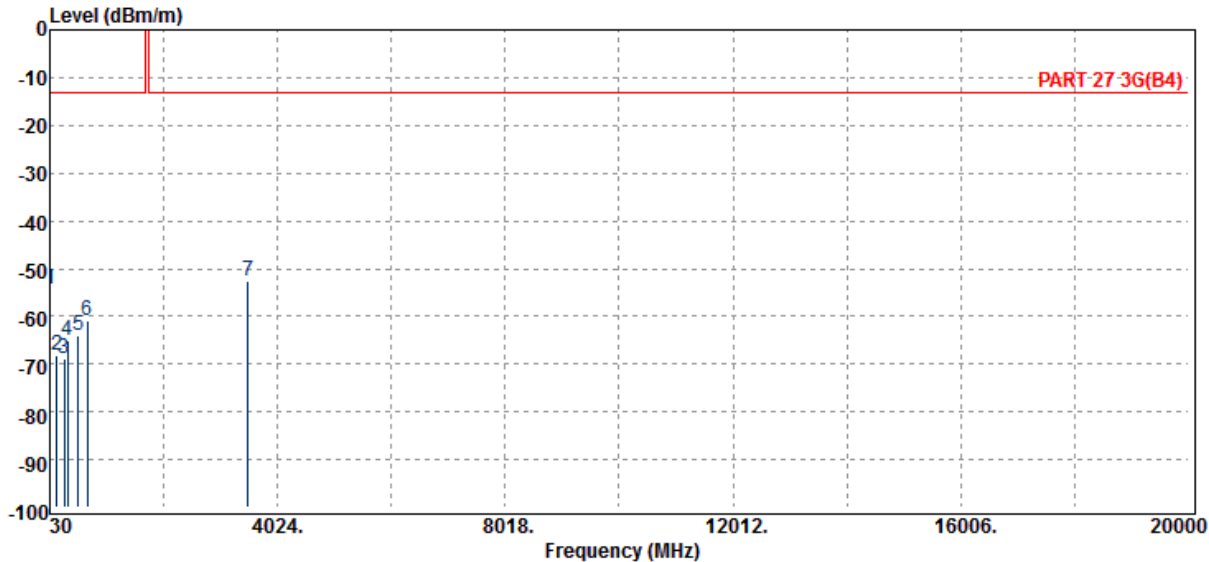
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-50.55	-20.08	-30.05	-0.45	0.04	-13.00	-37.55
143.49	-68.48	-59.61	-7.92	-0.99	0.04	-13.00	-55.48
274.44	-68.96	-64.99	-2.64	-1.37	0.03	-13.00	-55.96
418.00	-64.46	-61.01	-1.85	-1.70	0.10	-13.00	-51.46
521.79	-63.26	-60.15	-1.41	-1.91	0.21	-13.00	-50.26
696.39	-59.56	-56.27	-1.38	-2.22	0.31	-13.00	-46.56
3505.20	-55.07	-62.16	12.49	-5.55	0.16	-13.00	-42.07

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Operation Band	:WCDMA B4	Test Date	:2019-03-28
Fundamental Frequency	:1752.6 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH HIGH	Engineer	:Kane
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-54.43	-23.96	-30.05	-0.45	0.04	-13.00	-41.43
153.19	-68.25	-60.38	-6.89	-1.02	0.04	-13.00	-55.25
285.11	-69.02	-65.21	-2.44	-1.40	0.03	-13.00	-56.02
343.31	-64.97	-62.03	-1.45	-1.53	0.05	-13.00	-51.97
524.70	-63.92	-60.86	-1.36	-1.91	0.21	-13.00	-50.92
691.54	-60.93	-57.67	-1.35	-2.22	0.30	-13.00	-47.93
3505.20	-52.56	-59.65	12.49	-5.55	0.16	-13.00	-39.56

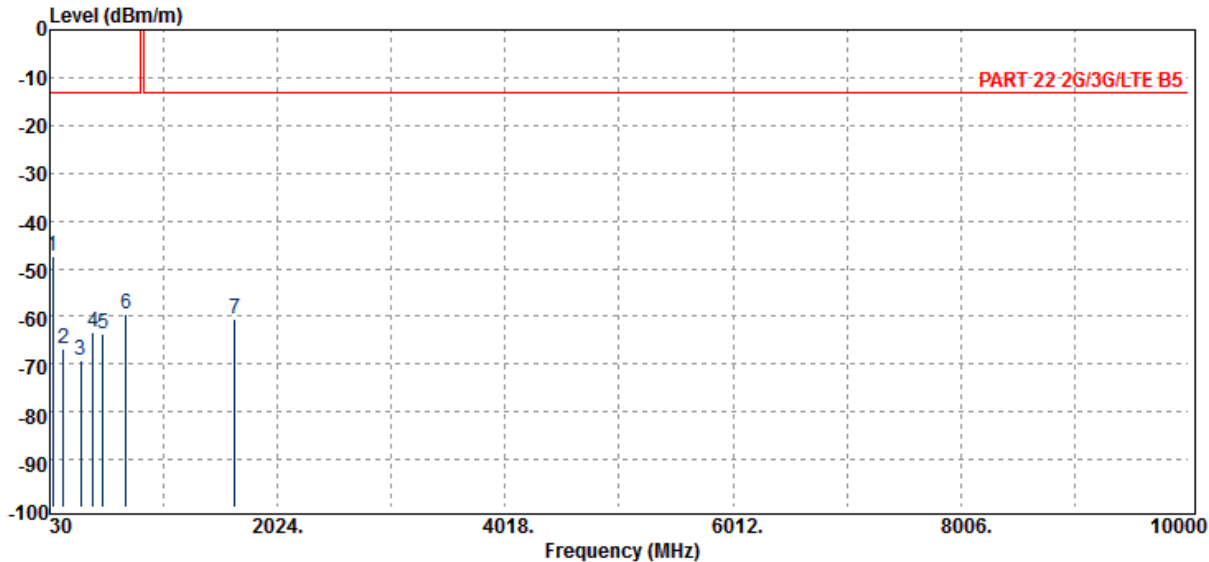
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Radiated Spurious Emission Measurement Result: WCDMA Band 5 Mode

Operation Band	:WCDMA B5	Test Date	:2019-03-28
Fundamental Frequency	:826.4 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH LOW	Engineer	:Kane
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



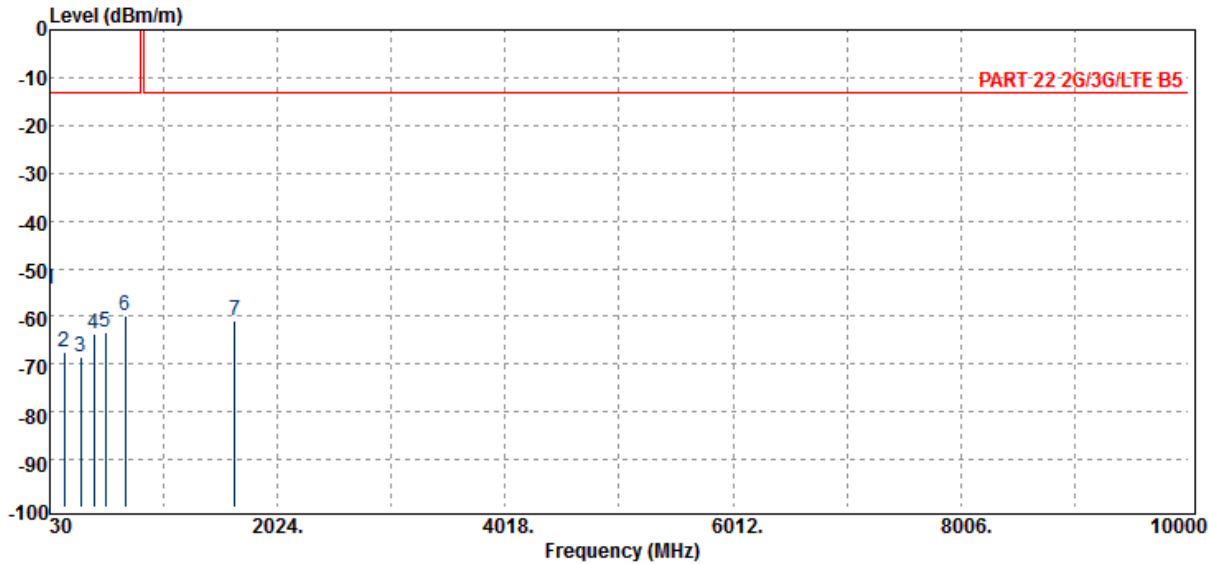
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
56.19	-47.36	-36.37	-10.50	-0.63	0.13	-13.00	-34.36
151.25	-66.74	-58.80	-7.05	-1.01	0.12	-13.00	-53.74
298.69	-69.16	-65.82	-2.00	-1.43	0.10	-13.00	-56.16
410.24	-63.49	-60.32	-1.75	-1.68	0.26	-13.00	-50.49
498.51	-63.66	-59.96	-1.98	-1.87	0.15	-13.00	-50.66
696.39	-59.50	-56.83	-1.38	-2.22	0.93	-13.00	-46.50
1652.80	-60.62	-67.20	9.72	-3.55	0.41	-13.00	-47.62

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Operation Band	:WCDMA B5	Test Date	:2019-03-28
Fundamental Frequency	:826.4 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH LOW	Engineer	:Kane
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



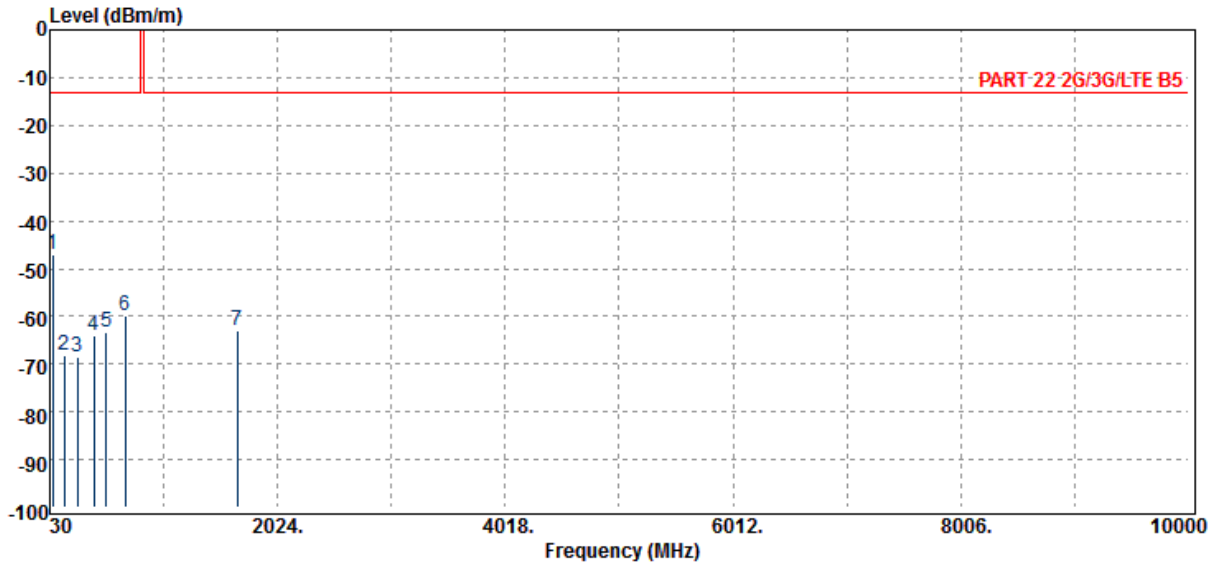
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-54.41	-24.04	-30.05	-0.45	0.13	-13.00	-41.41
153.19	-67.58	-59.79	-6.89	-1.02	0.12	-13.00	-54.58
299.66	-68.62	-65.33	-1.96	-1.43	0.10	-13.00	-55.62
418.00	-63.58	-60.29	-1.85	-1.70	0.25	-13.00	-50.58
515.00	-63.46	-60.27	-1.45	-1.90	0.16	-13.00	-50.46
686.69	-59.69	-57.00	-1.35	-2.21	0.86	-13.00	-46.69
1652.80	-60.85	-67.43	9.72	-3.55	0.41	-13.00	-47.85

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Operation Band	:WCDMA B5	Test Date	:2019-03-28
Fundamental Frequency	:836.6 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH MID	Engineer	:Kane
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



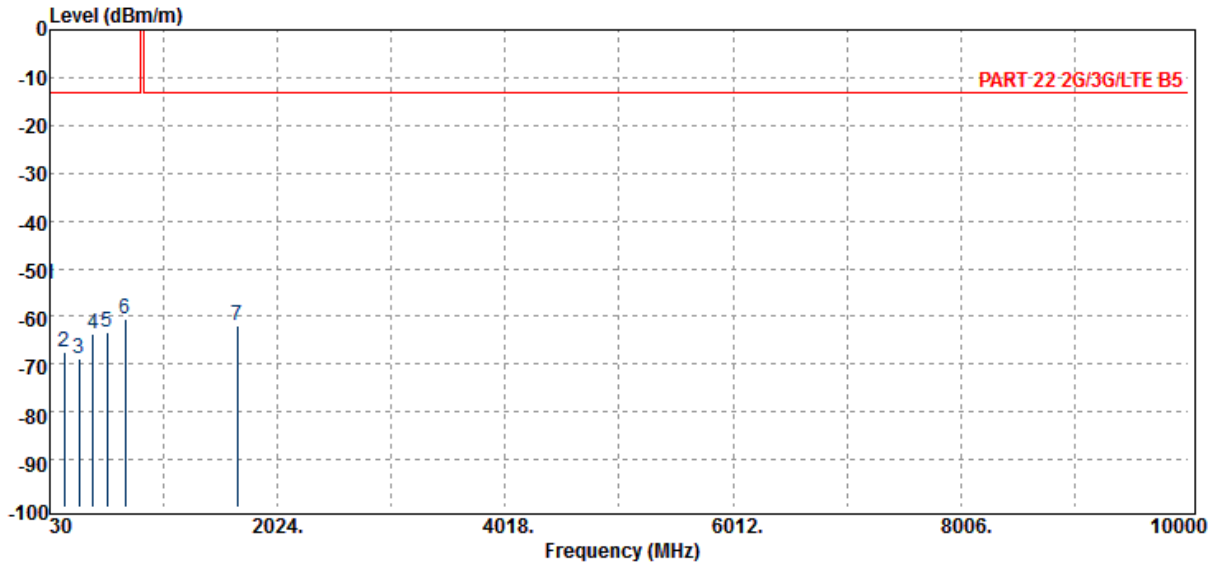
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
56.19	-47.10	-36.11	-10.50	-0.63	0.13	-13.00	-34.10
156.10	-68.22	-60.68	-6.64	-1.03	0.12	-13.00	-55.22
274.44	-68.65	-64.74	-2.64	-1.37	0.10	-13.00	-55.65
416.06	-64.17	-60.88	-1.85	-1.69	0.25	-13.00	-51.17
527.61	-63.34	-60.23	-1.35	-1.92	0.17	-13.00	-50.34
692.51	-59.95	-57.29	-1.35	-2.22	0.90	-13.00	-46.95
1673.20	-63.07	-69.74	9.84	-3.58	0.42	-13.00	-50.07

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Operation Band	:WCDMA B5	Test Date	:2019-03-28
Fundamental Frequency	:836.6 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH MID	Engineer	:Kane
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



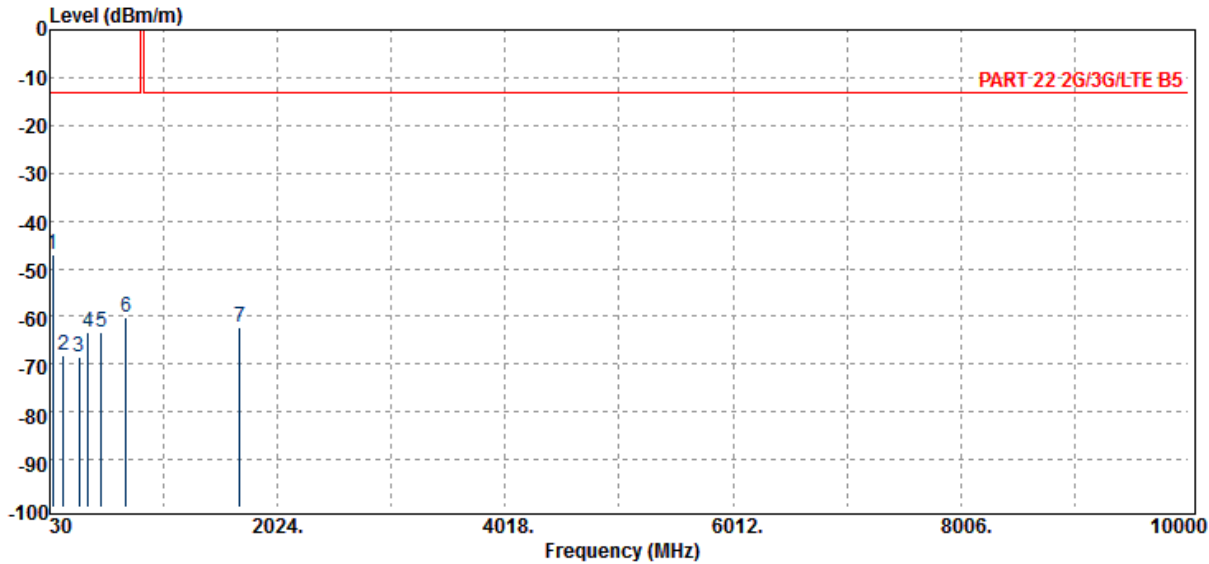
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-53.20	-22.83	-30.05	-0.45	0.13	-13.00	-40.20
154.16	-67.46	-59.75	-6.82	-1.02	0.12	-13.00	-54.46
285.11	-68.75	-65.01	-2.44	-1.40	0.10	-13.00	-55.75
405.39	-63.52	-60.37	-1.75	-1.67	0.27	-13.00	-50.52
532.46	-63.38	-60.32	-1.30	-1.92	0.17	-13.00	-50.38
691.54	-60.62	-57.95	-1.35	-2.22	0.90	-13.00	-47.62
1673.20	-62.01	-68.69	9.84	-3.58	0.42	-13.00	-49.01

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Operation Band	:WCDMA B5	Test Date	:2019-03-28
Fundamental Frequency	:846.6 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH HIGH	Engineer	:Kane
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



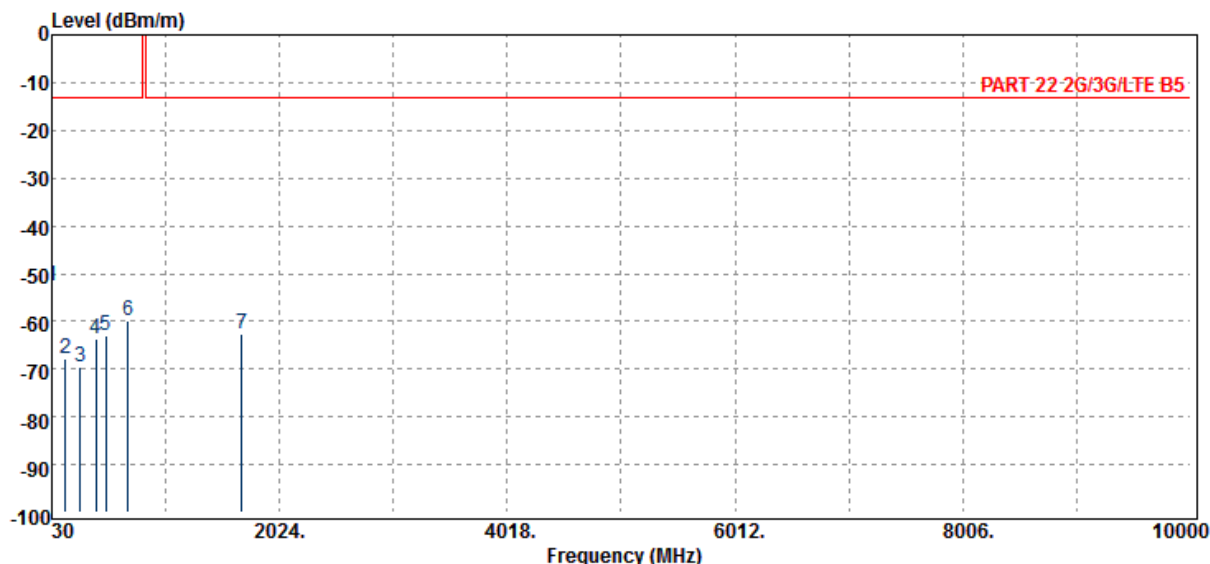
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
56.19	-47.15	-36.16	-10.50	-0.63	0.13	-13.00	-34.15
148.34	-68.06	-59.86	-7.31	-1.00	0.12	-13.00	-55.06
284.14	-68.54	-64.78	-2.47	-1.39	0.10	-13.00	-55.54
367.56	-63.40	-60.28	-1.75	-1.59	0.22	-13.00	-50.40
481.05	-63.24	-59.15	-2.43	-1.83	0.17	-13.00	-50.24
694.45	-60.25	-57.60	-1.35	-2.22	0.92	-13.00	-47.25
1693.20	-62.37	-69.16	9.96	-3.59	0.42	-13.00	-49.37

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Operation Band	:WCDMA B5	Test Date	:2019-03-28
Fundamental Frequency	:846.6 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH HIGH	Engineer	:Kane
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-52.68	-22.31	-30.05	-0.45	0.13	-13.00	-39.68
146.40	-67.92	-59.54	-7.51	-1.00	0.12	-13.00	-54.92
277.35	-69.39	-65.51	-2.60	-1.38	0.10	-13.00	-56.39
413.15	-63.72	-60.48	-1.81	-1.69	0.26	-13.00	-50.72
502.39	-62.84	-59.21	-1.90	-1.88	0.15	-13.00	-49.84
699.30	-59.95	-57.24	-1.44	-2.23	0.95	-13.00	-46.95
1693.20	-62.62	-69.41	9.96	-3.59	0.42	-13.00	-49.62

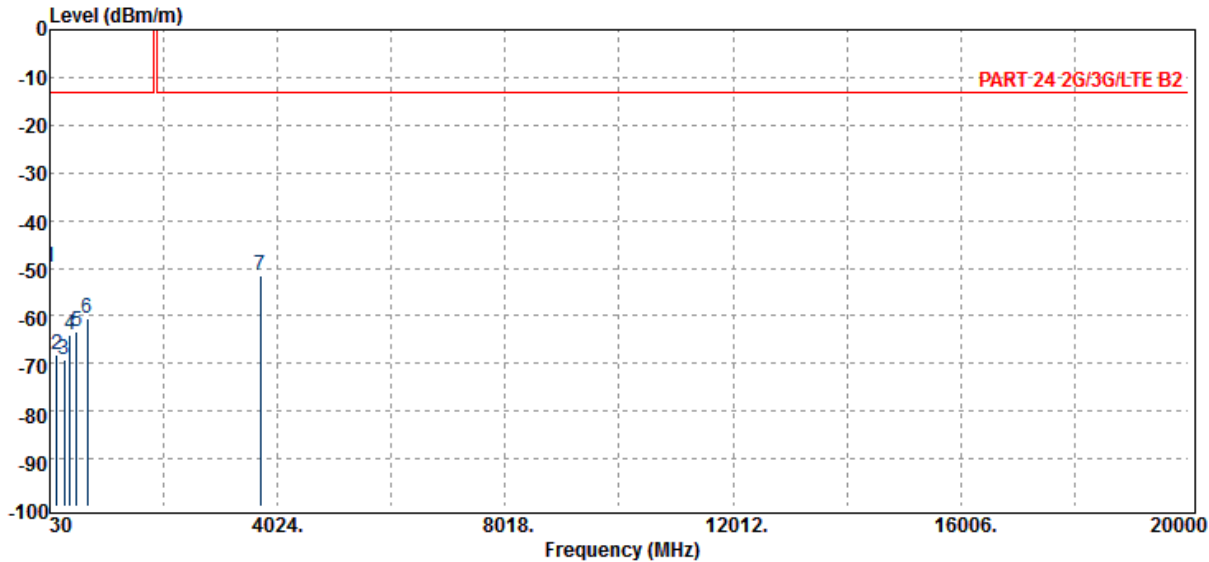
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Radiated Spurious Emission Measurement Result: LTE-Band 2 (The Worst Case)

Operation Band	:LTE B2	Test Date	:2019-03-28
Fundamental Frequency	:1860 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH LOW	Engineer	:Kane
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-49.78	-19.32	-30.05	-0.45	0.04	-13.00	-36.78
153.19	-68.13	-60.26	-6.89	-1.02	0.04	-13.00	-55.13
277.35	-69.14	-65.20	-2.60	-1.38	0.03	-13.00	-56.14
385.99	-64.10	-61.08	-1.45	-1.63	0.06	-13.00	-51.10
500.45	-63.41	-59.82	-1.94	-1.87	0.22	-13.00	-50.41
691.54	-60.44	-57.18	-1.35	-2.22	0.30	-13.00	-47.44
3720.00	-51.45	-58.33	12.46	-5.71	0.13	-13.00	-38.45

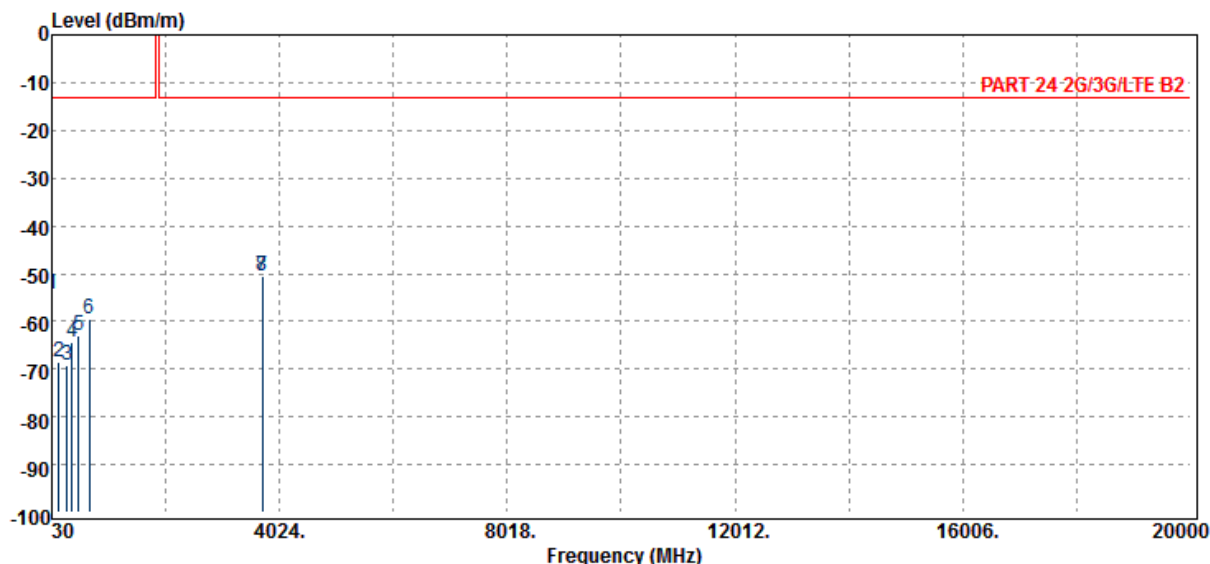
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Operation Band :LTE B2
Fundamental Frequency :1860 MHz
Operation Mode :Tx CH LOW
EUT Pol. :E1 Plane

Test Date :2019-03-28
Temp./Humi. :22 deg_C / 61 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



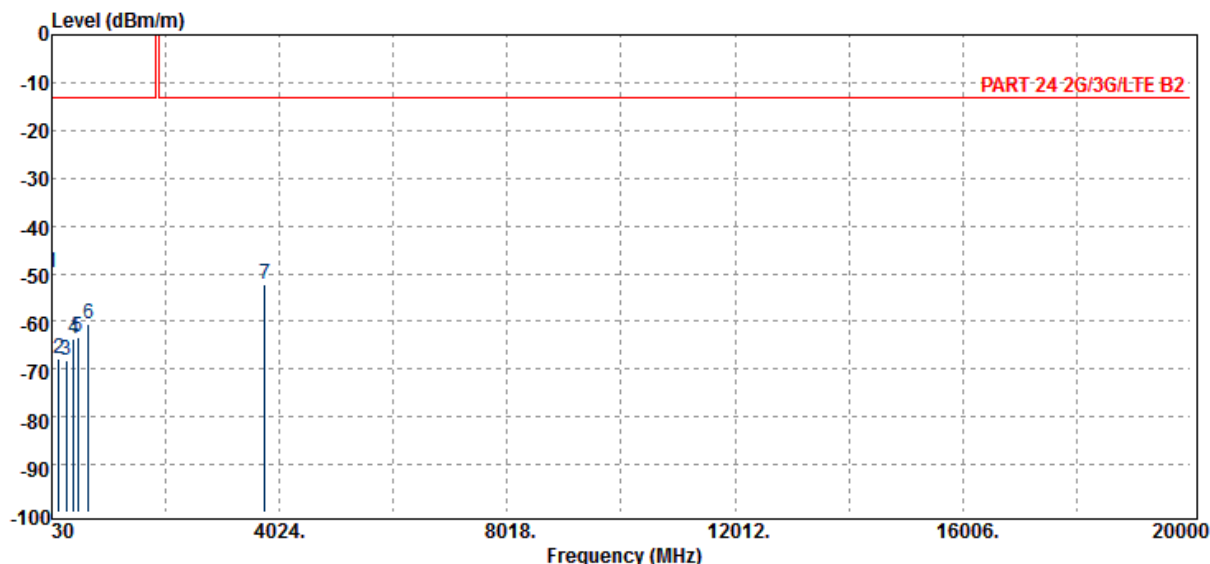
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-54.45	-23.98	-30.05	-0.45	0.04	-13.00	-41.45
151.25	-68.49	-60.47	-7.05	-1.01	0.04	-13.00	-55.49
296.75	-69.08	-65.61	-2.08	-1.42	0.03	-13.00	-56.08
386.96	-64.36	-61.34	-1.45	-1.63	0.06	-13.00	-51.36
493.66	-62.81	-59.06	-2.10	-1.86	0.21	-13.00	-49.81
689.60	-59.57	-56.31	-1.35	-2.21	0.30	-13.00	-46.57
3720.00	-50.49	-57.37	12.46	-5.71	0.13	-13.00	-37.49
3720.00	-50.41	-57.29	12.46	-5.71	0.13	-13.00	-37.41

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Operation Band	:LTE B2	Test Date	:2019-03-28
Fundamental Frequency	:1880 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH MID	Engineer	:Kane
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-49.92	-19.46	-30.05	-0.45	0.04	-13.00	-36.92
146.40	-67.89	-59.43	-7.51	-1.00	0.04	-13.00	-54.89
289.96	-68.07	-64.54	-2.15	-1.41	0.03	-13.00	-55.07
411.21	-63.51	-60.14	-1.77	-1.68	0.09	-13.00	-50.51
488.81	-63.43	-59.52	-2.27	-1.84	0.20	-13.00	-50.43
675.05	-60.41	-57.16	-1.35	-2.19	0.28	-13.00	-47.41
3760.00	-52.15	-59.01	12.42	-5.69	0.12	-13.00	-39.15

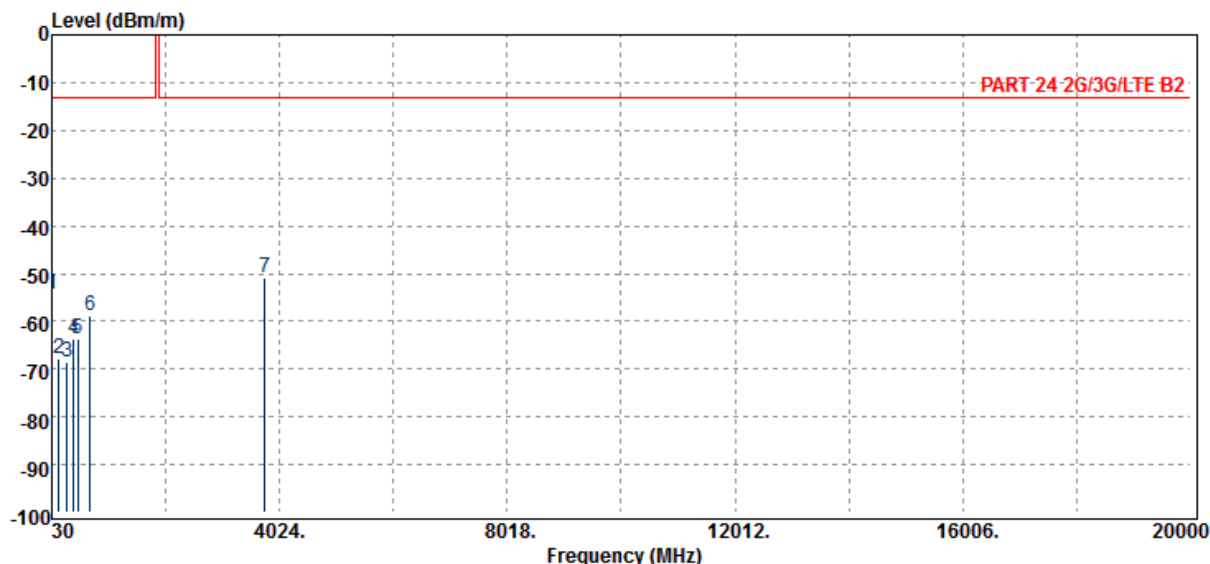
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Operation Band :LTE B2
Fundamental Frequency :1880 MHz
Operation Mode :Tx CH MID
EUT Pol. :E1 Plane

Test Date :2019-03-28
Temp./Humi. :22 deg_C / 61 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



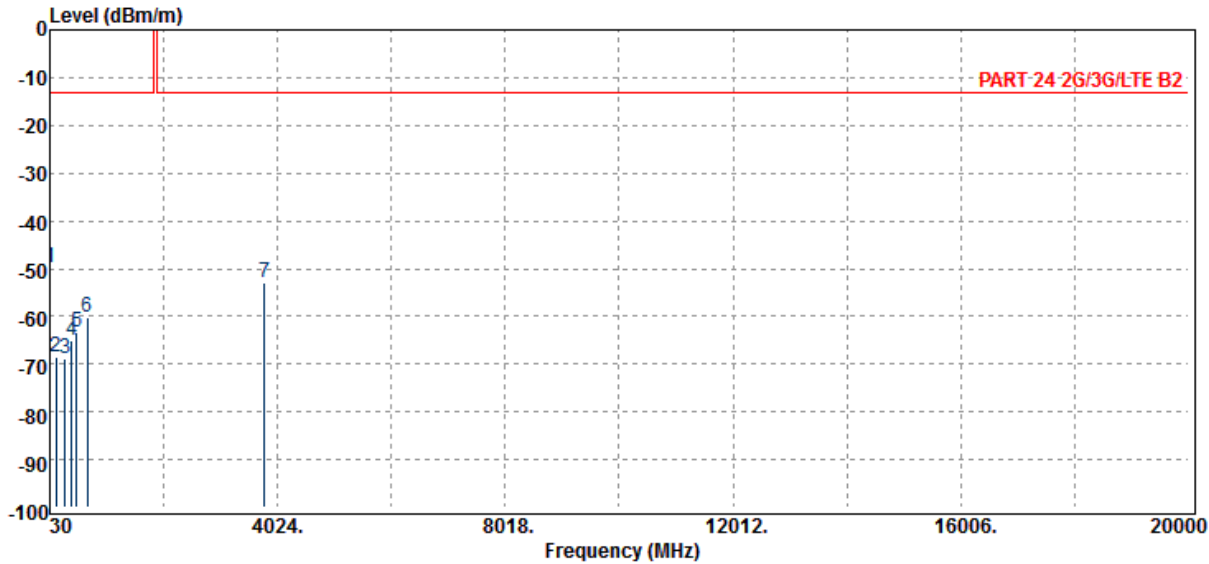
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-54.26	-23.79	-30.05	-0.45	0.04	-13.00	-41.26
159.01	-67.82	-60.48	-6.35	-1.04	0.04	-13.00	-54.82
291.90	-68.68	-65.15	-2.15	-1.41	0.03	-13.00	-55.68
406.36	-63.82	-60.47	-1.75	-1.67	0.08	-13.00	-50.82
482.99	-63.74	-59.72	-2.39	-1.83	0.20	-13.00	-50.74
696.39	-58.94	-55.65	-1.38	-2.22	0.31	-13.00	-45.94
3760.00	-50.88	-57.73	12.42	-5.69	0.12	-13.00	-37.88

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Operation Band	:LTE B2	Test Date	:2019-03-28
Fundamental Frequency	:1900 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH HIGH	Engineer	:Kane
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



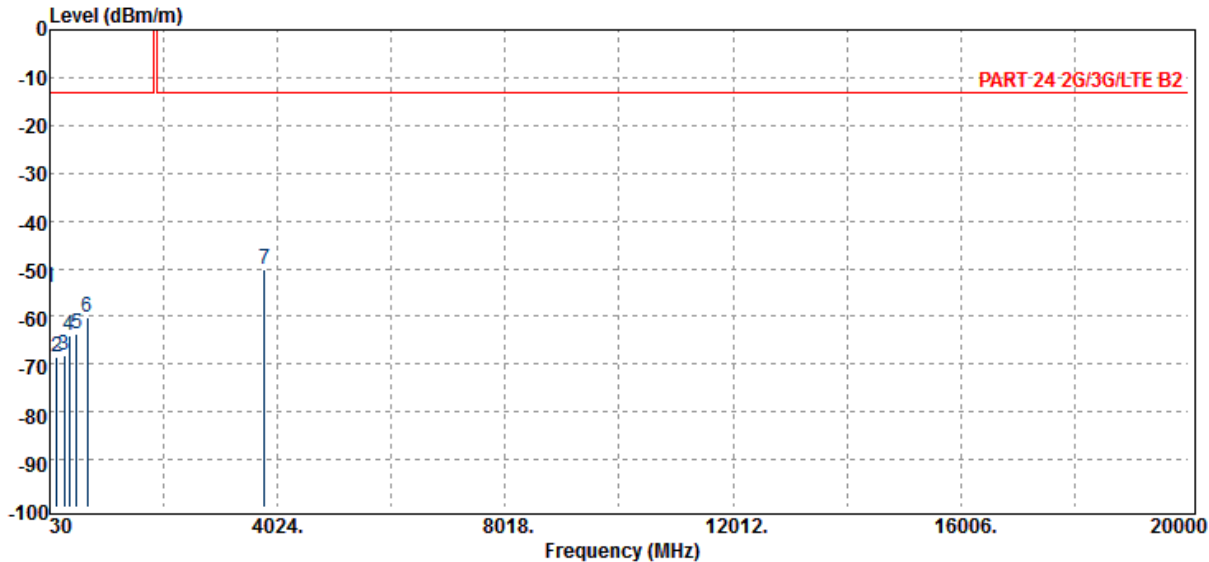
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-49.94	-19.47	-30.05	-0.45	0.04	-13.00	-36.94
144.46	-68.63	-59.93	-7.75	-0.99	0.04	-13.00	-55.63
294.81	-68.98	-65.44	-2.15	-1.42	0.03	-13.00	-55.98
408.30	-65.04	-61.69	-1.75	-1.68	0.08	-13.00	-52.04
502.39	-63.29	-59.73	-1.90	-1.88	0.22	-13.00	-50.29
692.51	-60.12	-56.85	-1.35	-2.22	0.31	-13.00	-47.12
3800.00	-52.79	-59.65	12.50	-5.76	0.12	-13.00	-39.79

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Operation Band	:LTE B2	Test Date	:2019-03-28
Fundamental Frequency	:1900 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH HIGH	Engineer	:Kane
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-53.82	-23.35	-30.05	-0.45	0.04	-13.00	-40.82
154.16	-68.44	-60.65	-6.82	-1.02	0.04	-13.00	-55.44
285.11	-68.09	-64.29	-2.44	-1.40	0.03	-13.00	-55.09
376.29	-63.97	-60.80	-1.62	-1.61	0.06	-13.00	-50.97
495.60	-63.62	-59.93	-2.04	-1.86	0.21	-13.00	-50.62
691.54	-60.09	-56.83	-1.35	-2.22	0.30	-13.00	-47.09
3800.00	-50.12	-56.98	12.50	-5.76	0.12	-13.00	-37.12

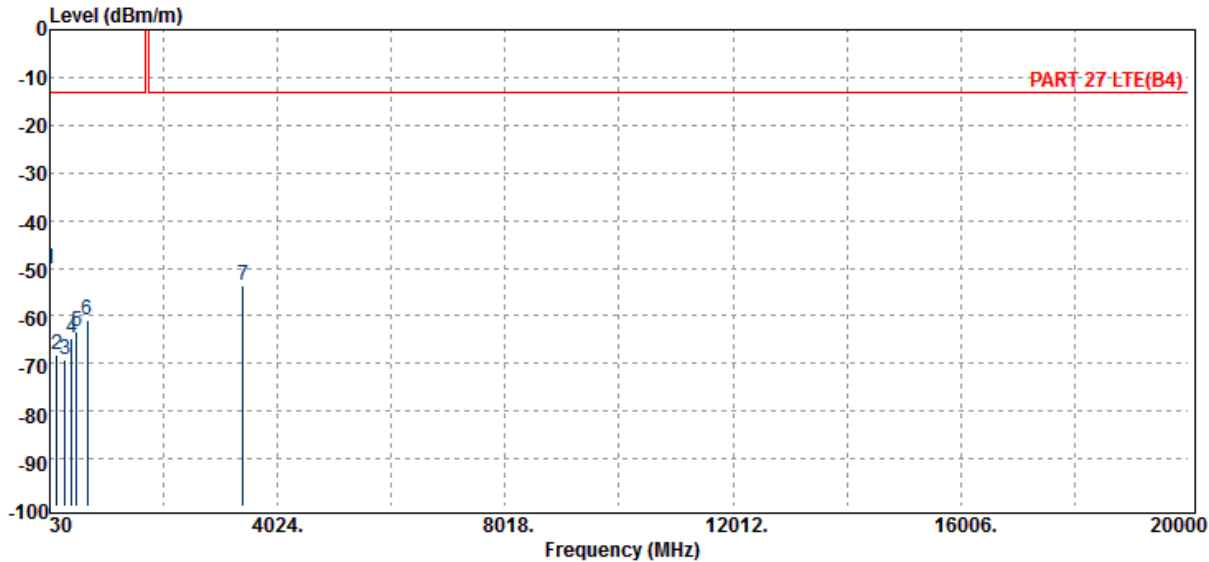
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Radiated Spurious Emission Measurement Result: LTE-Band 4 (The Worst Case)

Operation Band	:LTE B4	Test Date	:2019-03-28
Fundamental Frequency	:1710.7 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH LOW	Engineer	:Kane
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



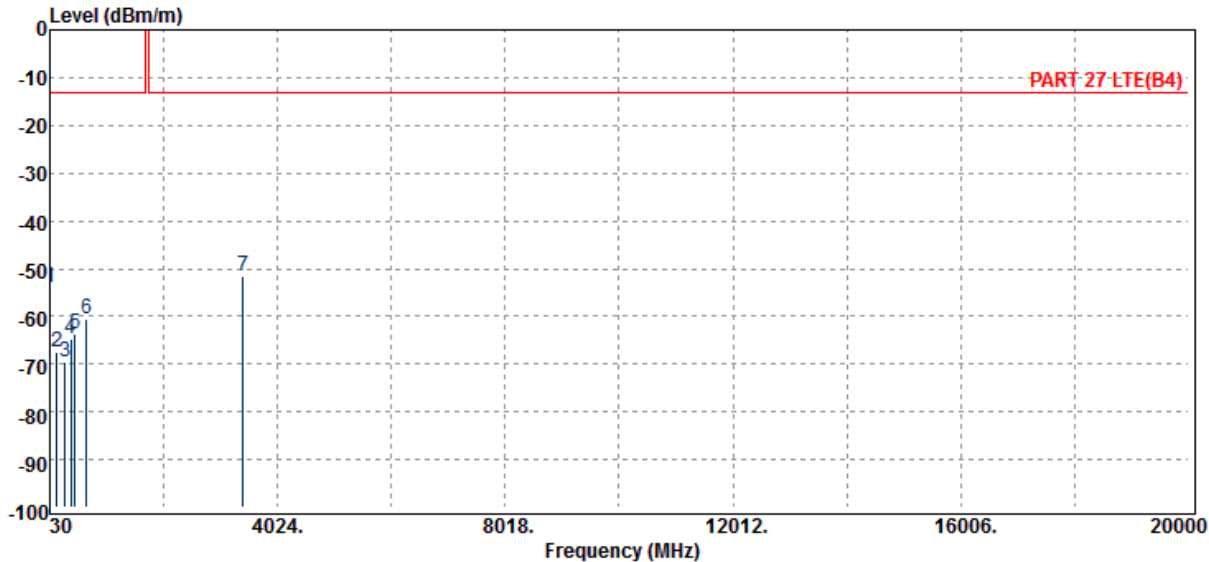
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-50.06	-19.59	-30.05	-0.45	0.04	-13.00	-37.06
156.10	-68.30	-60.68	-6.64	-1.03	0.04	-13.00	-55.30
296.75	-69.38	-65.90	-2.08	-1.42	0.03	-13.00	-56.38
411.21	-64.76	-61.39	-1.77	-1.68	0.09	-13.00	-51.76
493.66	-63.42	-59.67	-2.10	-1.86	0.21	-13.00	-50.42
690.57	-60.80	-57.54	-1.35	-2.21	0.30	-13.00	-47.80
3421.40	-53.73	-61.19	12.76	-5.48	0.18	-13.00	-40.73

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Operation Band	:LTE B4	Test Date	:2019-03-28
Fundamental Frequency	:1710.7 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH LOW	Engineer	:Kane
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



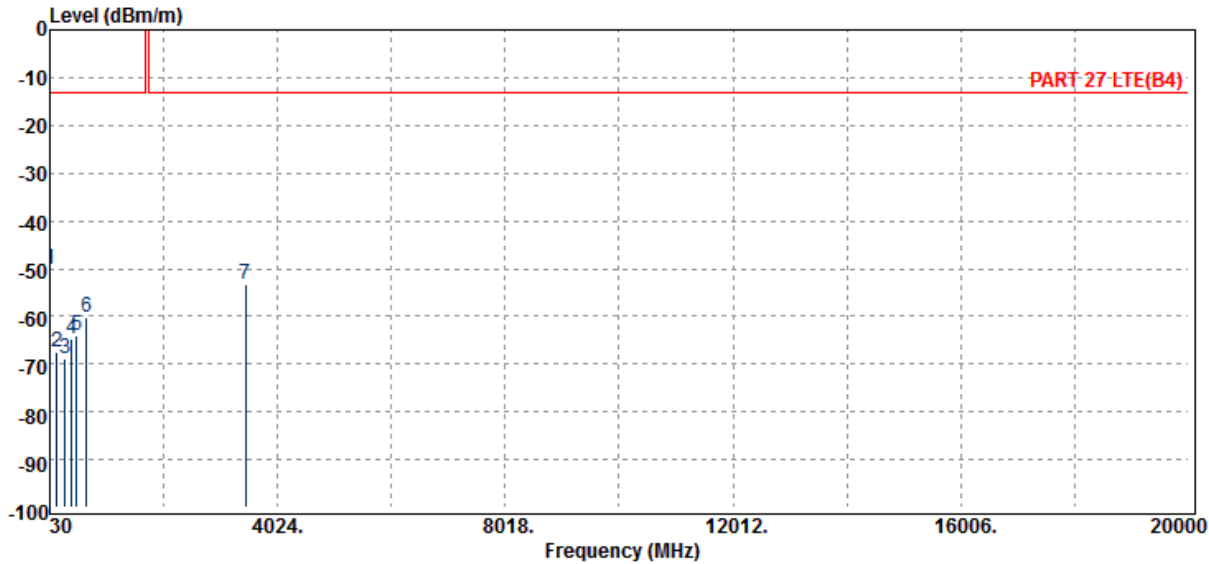
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-53.93	-23.46	-30.05	-0.45	0.04	-13.00	-40.93
149.31	-67.49	-59.31	-7.22	-1.00	0.04	-13.00	-54.49
299.66	-69.56	-66.19	-1.96	-1.43	0.03	-13.00	-56.56
405.39	-64.70	-61.35	-1.75	-1.67	0.08	-13.00	-51.70
471.35	-63.80	-59.83	-2.35	-1.80	0.18	-13.00	-50.80
676.99	-60.72	-57.50	-1.31	-2.19	0.29	-13.00	-47.72
3421.40	-51.48	-58.94	12.76	-5.48	0.18	-13.00	-38.48

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Operation Band	:LTE B4	Test Date	:2019-03-28
Fundamental Frequency	:1732.5 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH MID	Engineer	:Kane
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-50.03	-19.56	-30.05	-0.45	0.04	-13.00	-37.03
159.01	-67.53	-60.19	-6.35	-1.04	0.04	-13.00	-54.53
299.66	-68.69	-65.33	-1.96	-1.43	0.03	-13.00	-55.69
406.36	-64.86	-61.52	-1.75	-1.67	0.08	-13.00	-51.86
502.39	-64.03	-60.47	-1.90	-1.88	0.22	-13.00	-51.03
673.11	-60.37	-57.07	-1.39	-2.19	0.28	-13.00	-47.37
3465.00	-53.38	-60.71	12.64	-5.48	0.17	-13.00	-40.38

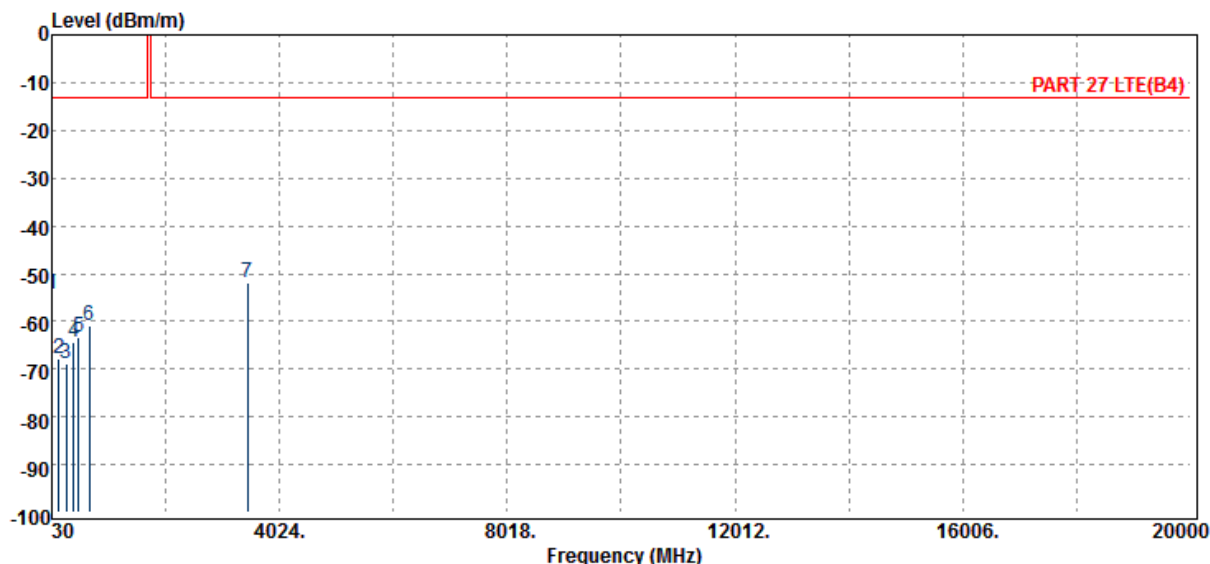
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Operation Band :LTE B4
Fundamental Frequency :1732.5 MHz
Operation Mode :Tx CH MID
EUT Pol. :E1 Plane

Test Date :2019-03-28
Temp./Humi. :22 deg_C / 61 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



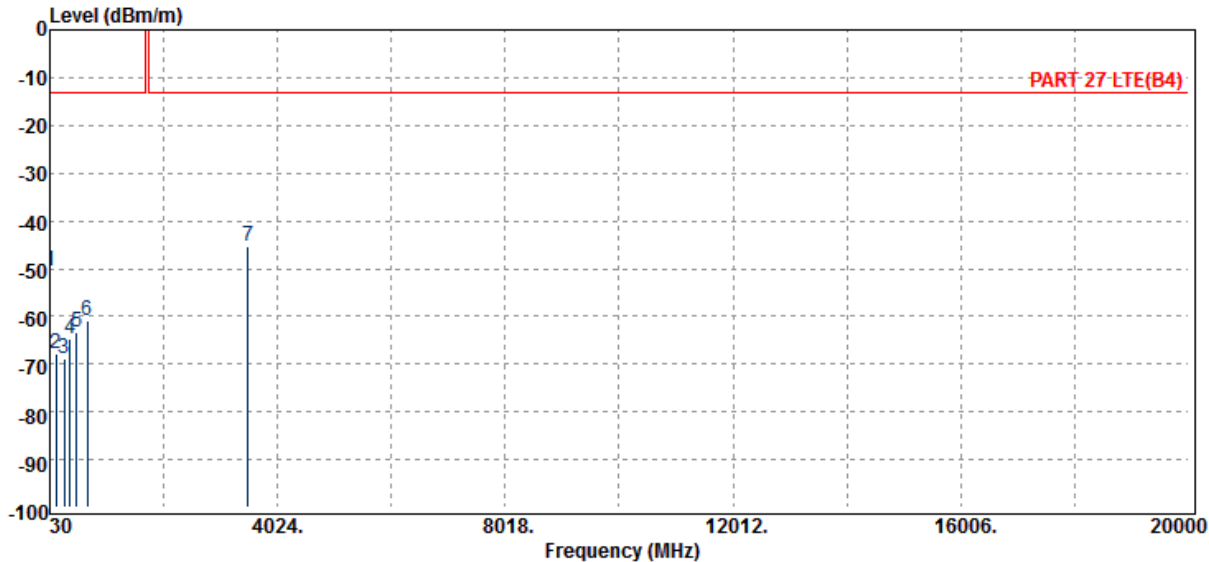
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-54.41	-23.94	-30.05	-0.45	0.04	-13.00	-41.41
153.19	-67.99	-60.12	-6.89	-1.02	0.04	-13.00	-54.99
284.14	-68.84	-65.01	-2.47	-1.39	0.03	-13.00	-55.84
411.21	-64.47	-61.10	-1.77	-1.68	0.09	-13.00	-51.47
497.54	-63.20	-59.55	-2.00	-1.86	0.22	-13.00	-50.20
687.66	-60.81	-57.55	-1.35	-2.21	0.30	-13.00	-47.81
3465.00	-52.07	-59.39	12.64	-5.48	0.17	-13.00	-39.07

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Operation Band	:LTE B4	Test Date	:2019-03-28
Fundamental Frequency	:1754.3 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH HIGH	Engineer	:Kane
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



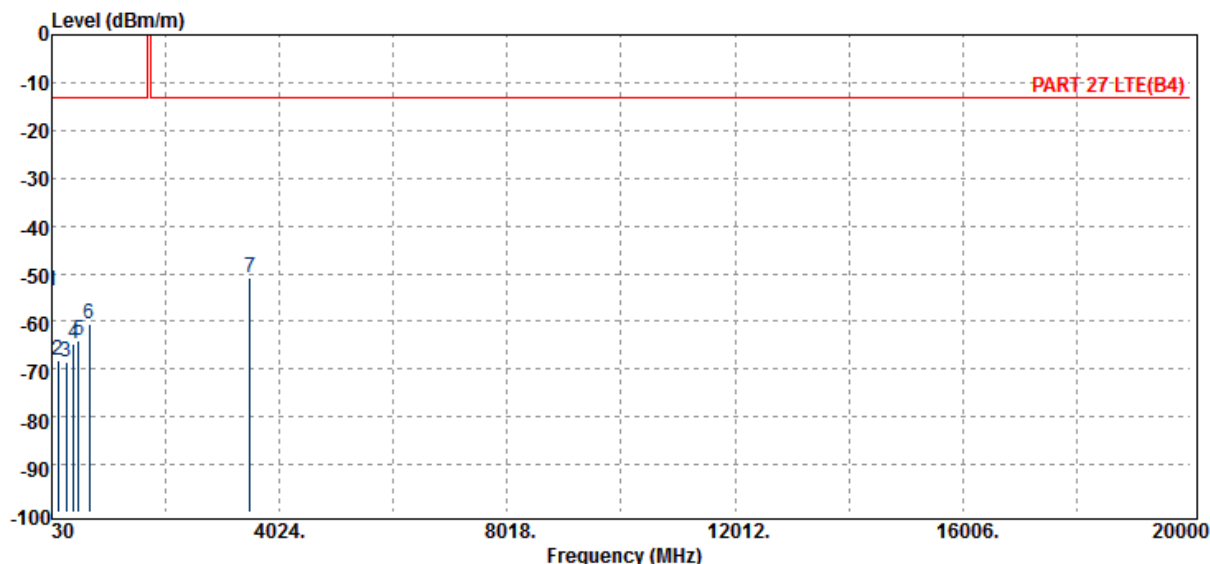
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-50.45	-19.98	-30.05	-0.45	0.04	-13.00	-37.45
143.49	-67.73	-58.87	-7.92	-0.99	0.04	-13.00	-54.73
282.20	-68.69	-64.83	-2.51	-1.39	0.03	-13.00	-55.69
382.11	-64.54	-61.47	-1.51	-1.62	0.06	-13.00	-51.54
492.69	-63.43	-59.64	-2.14	-1.85	0.21	-13.00	-50.43
694.45	-61.04	-57.78	-1.35	-2.22	0.31	-13.00	-48.04
3508.60	-45.34	-52.42	12.48	-5.56	0.15	-13.00	-32.34

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Operation Band	:LTE B4	Test Date	:2019-03-28
Fundamental Frequency	:1754.3 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH HIGH	Engineer	:Kane
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-53.73	-23.26	-30.05	-0.45	0.04	-13.00	-40.73
144.46	-68.10	-59.40	-7.75	-0.99	0.04	-13.00	-55.10
289.96	-68.63	-65.10	-2.15	-1.41	0.03	-13.00	-55.63
411.21	-64.85	-61.48	-1.77	-1.68	0.09	-13.00	-51.85
502.39	-63.96	-60.40	-1.90	-1.88	0.22	-13.00	-50.96
691.54	-60.55	-57.28	-1.35	-2.22	0.30	-13.00	-47.55
3508.60	-51.02	-58.10	12.48	-5.56	0.15	-13.00	-38.02

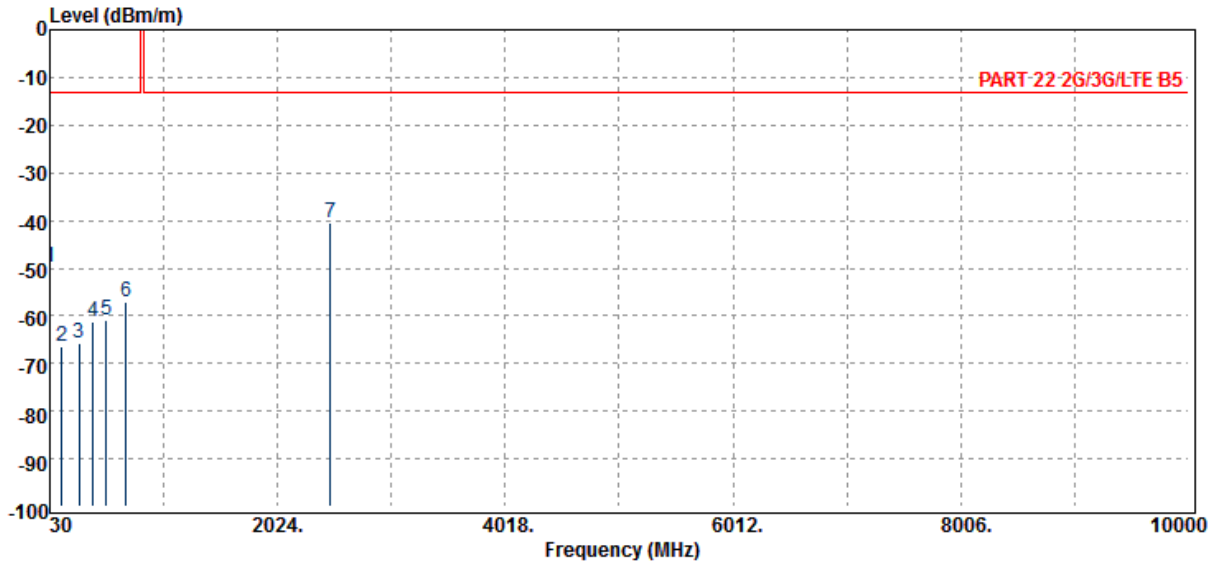
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Radiated Spurious Emission Measurement Result: LTE-Band 5 (The Worst Case)

Operation Band	:LTE B5	Test Date	:2019-03-28
Fundamental Frequency	:829 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH LOW	Engineer	:Kane
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



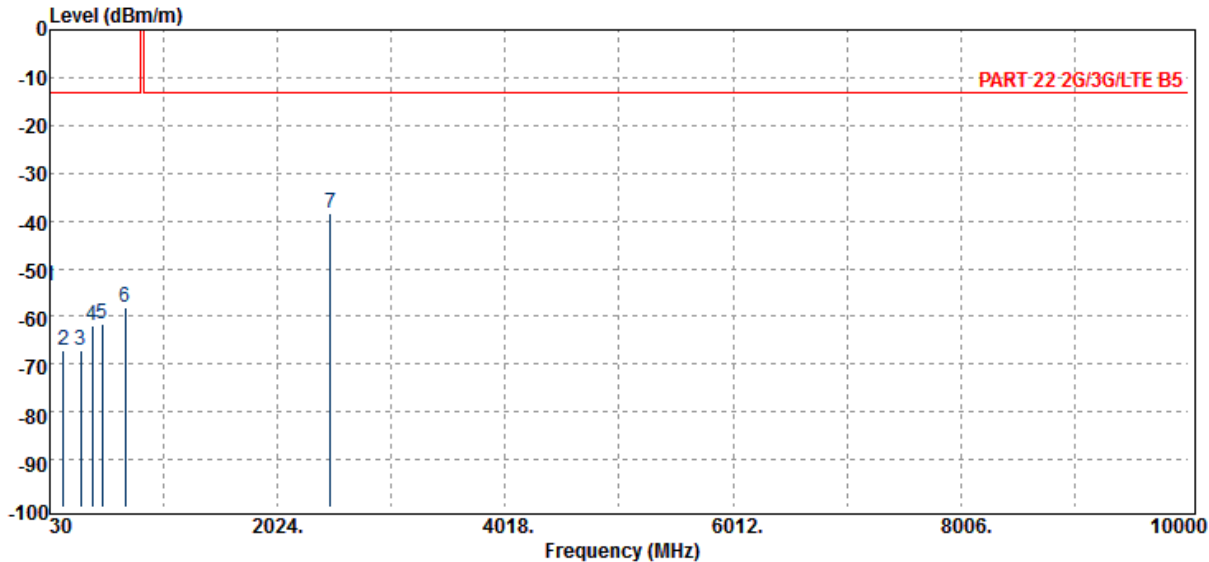
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-49.73	-19.36	-30.05	-0.45	0.13	-13.00	-36.73
136.70	-66.41	-56.50	-9.07	-0.96	0.12	-13.00	-53.41
287.05	-65.84	-62.22	-2.33	-1.40	0.10	-13.00	-52.84
411.21	-61.37	-58.18	-1.77	-1.68	0.26	-13.00	-48.37
522.76	-60.92	-57.78	-1.39	-1.91	0.16	-13.00	-47.92
699.30	-57.26	-54.55	-1.44	-2.23	0.95	-13.00	-44.26
2475.00	-40.40	-47.02	10.75	-4.51	0.38	-13.00	-27.40

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Operation Band	:LTE B5	Test Date	:2019-03-28
Fundamental Frequency	:829 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH LOW	Engineer	:Kane
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



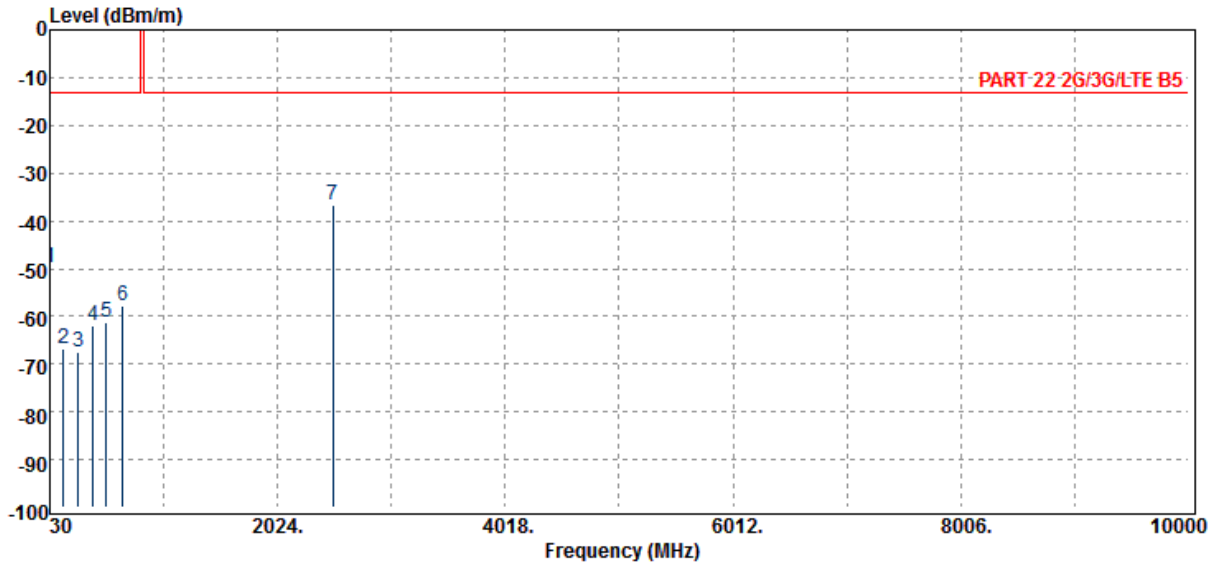
Freq.	ERP/EIRP	SG	Antenna	Cable	Filter	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBd/dBi	Loss dB	dB	dBm	dB
30.00	-53.79	-23.42	-30.05	-0.45	0.13	-13.00	-40.79
151.25	-67.20	-59.26	-7.05	-1.01	0.12	-13.00	-54.20
298.69	-67.23	-63.90	-2.00	-1.43	0.10	-13.00	-54.23
403.45	-61.97	-58.85	-1.72	-1.67	0.27	-13.00	-48.97
490.75	-61.42	-57.51	-2.22	-1.85	0.16	-13.00	-48.42
689.60	-58.03	-55.35	-1.35	-2.21	0.88	-13.00	-45.03
2487.00	-38.56	-45.18	10.75	-4.51	0.38	-13.00	-25.56

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Operation Band	:LTE B5	Test Date	:2019-03-28
Fundamental Frequency	:836.5 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH MID	Engineer	:Kane
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



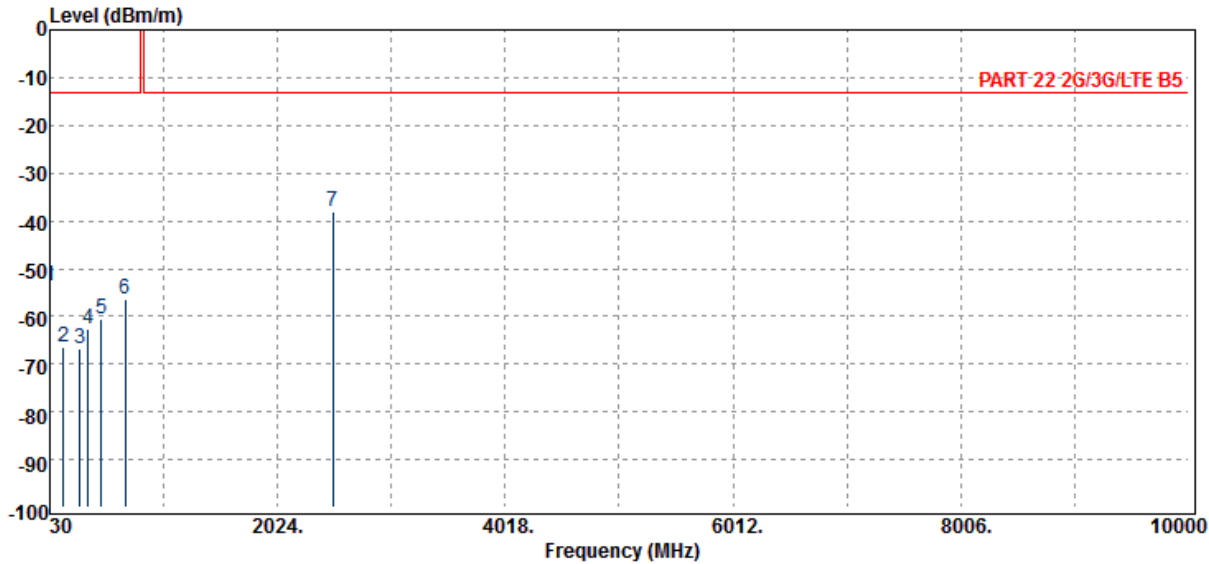
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-49.78	-19.41	-30.05	-0.45	0.13	-13.00	-36.78
148.34	-66.72	-58.52	-7.31	-1.00	0.12	-13.00	-53.72
279.29	-67.46	-63.62	-2.56	-1.38	0.10	-13.00	-54.46
406.36	-61.82	-58.66	-1.75	-1.67	0.27	-13.00	-48.82
526.64	-61.32	-58.22	-1.35	-1.92	0.17	-13.00	-48.32
667.29	-57.91	-55.01	-1.45	-2.18	0.73	-13.00	-44.91
2509.50	-36.77	-43.35	10.80	-4.59	0.37	-13.00	-23.77

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Operation Band	:LTE B5	Test Date	:2019-03-28
Fundamental Frequency	:836.5 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH MID	Engineer	:Kane
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



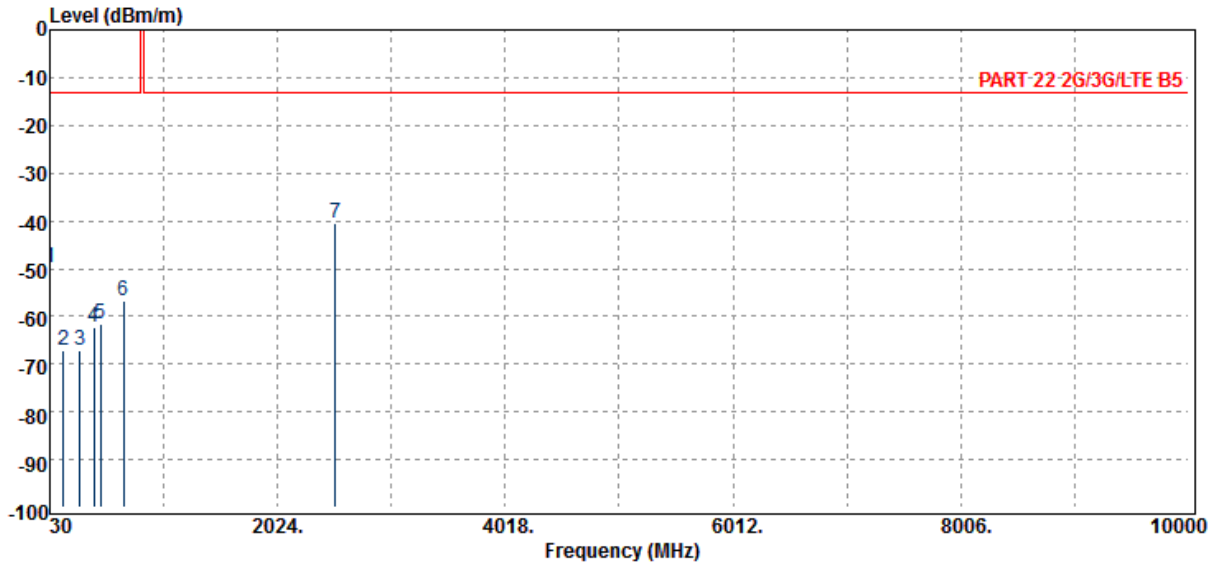
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-53.60	-23.23	-30.05	-0.45	0.13	-13.00	-40.60
148.34	-66.27	-58.08	-7.31	-1.00	0.12	-13.00	-53.27
296.75	-66.93	-63.52	-2.08	-1.42	0.10	-13.00	-53.93
364.65	-62.46	-59.34	-1.76	-1.58	0.22	-13.00	-49.46
481.05	-60.46	-56.38	-2.43	-1.83	0.17	-13.00	-47.46
687.66	-56.49	-53.80	-1.35	-2.21	0.87	-13.00	-43.49
2509.50	-38.02	-44.61	10.80	-4.59	0.37	-13.00	-25.02

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Operation Band	:LTE B5	Test Date	:2019-03-28
Fundamental Frequency	:844 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH HIGH	Engineer	:Kane
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



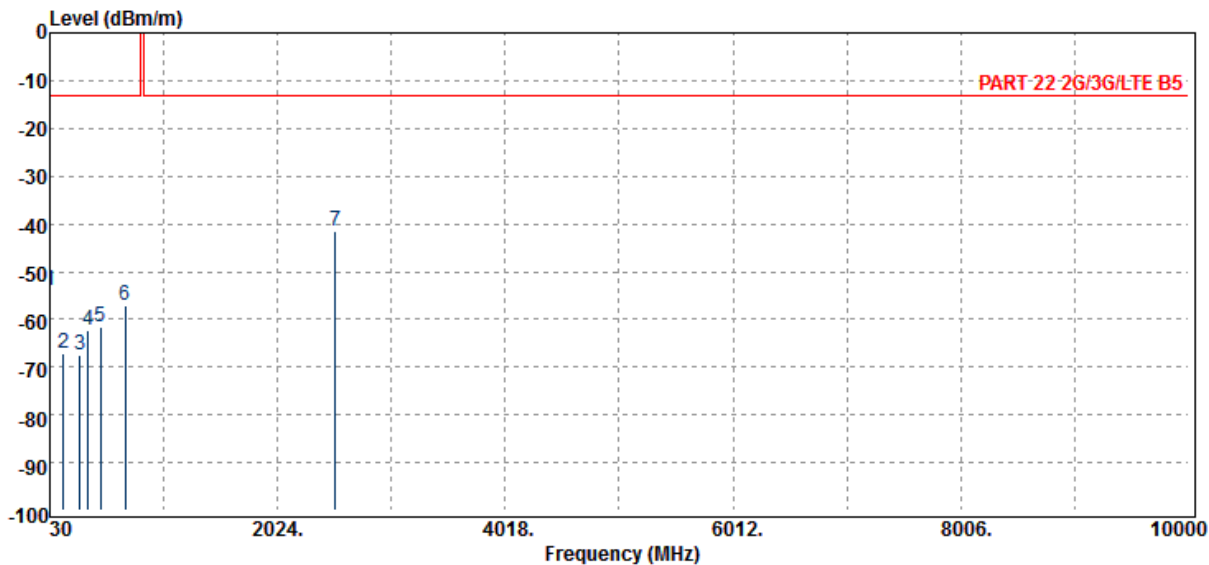
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-49.70	-19.33	-30.05	-0.45	0.13	-13.00	-36.70
148.34	-67.25	-59.06	-7.31	-1.00	0.12	-13.00	-54.25
296.75	-67.20	-63.79	-2.08	-1.42	0.10	-13.00	-54.20
415.09	-62.39	-59.10	-1.85	-1.69	0.25	-13.00	-49.39
473.29	-61.47	-57.49	-2.35	-1.81	0.18	-13.00	-48.47
672.14	-56.59	-53.76	-1.41	-2.19	0.76	-13.00	-43.59
2532.00	-40.49	-47.05	10.80	-4.59	0.36	-13.00	-27.49

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Operation Band	:LTE B5	Test Date	:2019-03-28
Fundamental Frequency	:844 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH HIGH	Engineer	:Kane
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-53.88	-23.51	-30.05	-0.45	0.13	-13.00	-40.88
151.25	-67.16	-59.22	-7.05	-1.01	0.12	-13.00	-54.16
296.75	-67.34	-63.94	-2.08	-1.42	0.10	-13.00	-54.34
362.71	-62.15	-58.99	-1.80	-1.58	0.21	-13.00	-49.15
474.26	-61.65	-57.66	-2.35	-1.81	0.18	-13.00	-48.65
691.54	-56.99	-54.32	-1.35	-2.22	0.90	-13.00	-43.99
2532.00	-41.45	-48.02	10.80	-4.59	0.36	-13.00	-28.45

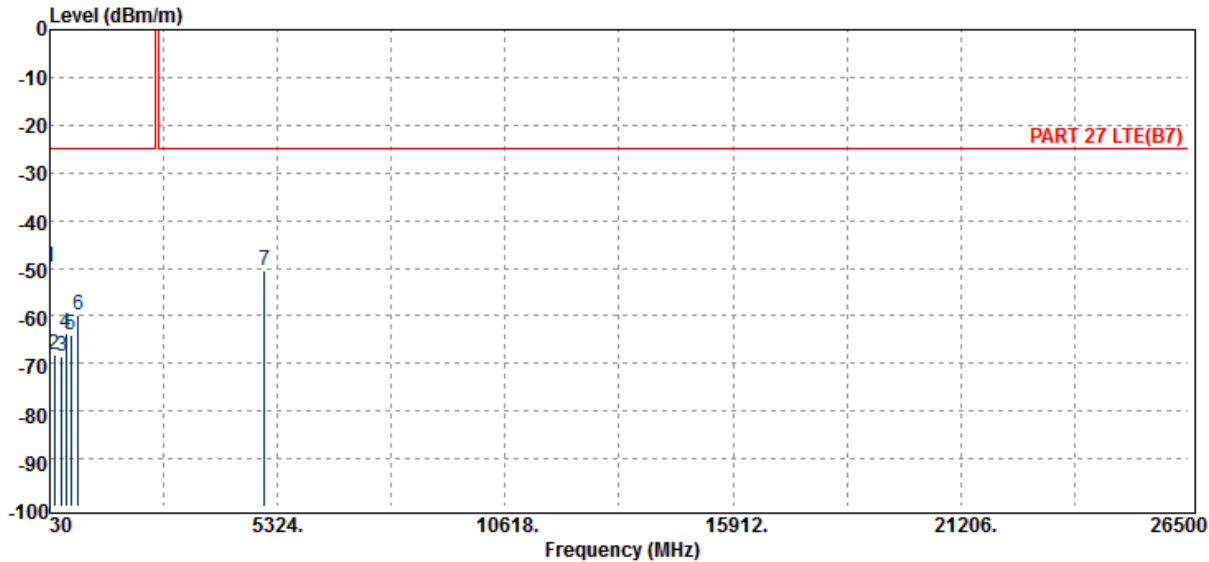
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Radiated Spurious Emission Measurement Result: LTE-Band 7 (The Worst Case)

Operation Band	:LTE B7	Test Date	:2019-03-28
Fundamental Frequency	:2510 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH LOW	Engineer	:Kane
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



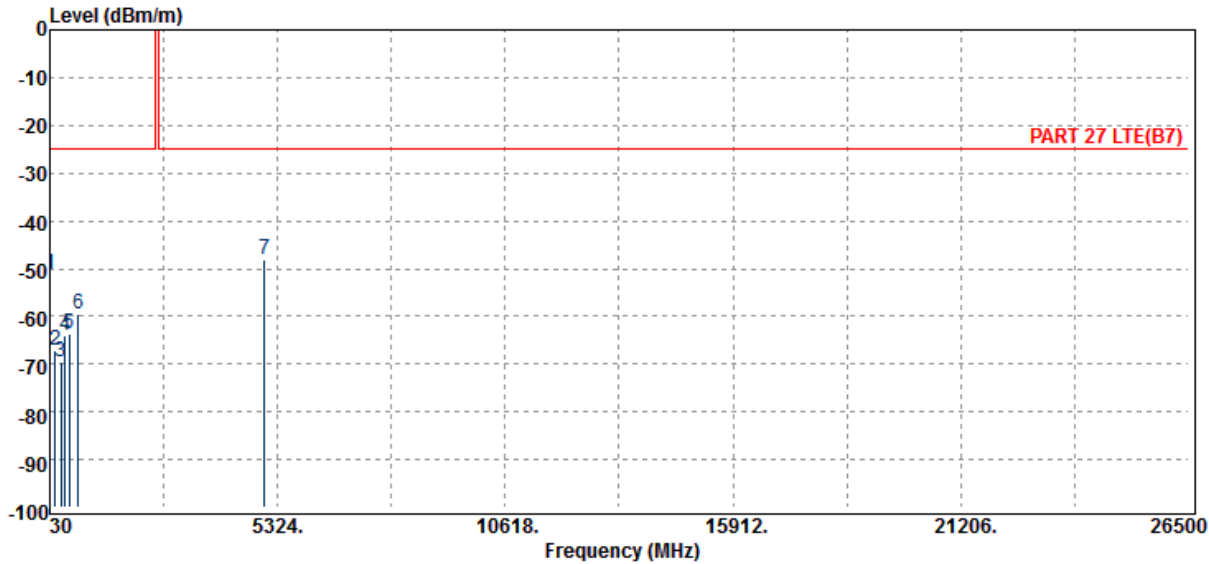
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-49.71	-19.24	-30.05	-0.45	0.03	-25.00	-24.71
141.55	-68.21	-59.05	-8.27	-0.98	0.09	-25.00	-43.21
298.69	-68.57	-65.25	-2.00	-1.43	0.11	-25.00	-43.57
410.24	-63.75	-60.47	-1.75	-1.68	0.16	-25.00	-38.75
576.11	-64.10	-60.71	-1.43	-2.02	0.05	-25.00	-39.10
697.36	-59.90	-56.49	-1.40	-2.22	0.21	-25.00	-34.90
5020.00	-50.41	-56.79	12.46	-6.61	0.54	-25.00	-25.41

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Operation Band	:LTE B7	Test Date	:2019-03-28
Fundamental Frequency	:2510 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH LOW	Engineer	:Kane
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-51.13	-20.65	-30.05	-0.45	0.03	-25.00	-26.13
151.25	-67.28	-59.31	-7.05	-1.01	0.09	-25.00	-42.28
287.05	-69.49	-65.89	-2.33	-1.40	0.13	-25.00	-44.49
385.99	-64.14	-61.14	-1.45	-1.63	0.09	-25.00	-39.14
479.11	-63.68	-59.57	-2.43	-1.82	0.14	-25.00	-38.68
686.69	-59.63	-56.33	-1.35	-2.21	0.26	-25.00	-34.63
5020.00	-48.14	-54.52	12.46	-6.61	0.54	-25.00	-23.14

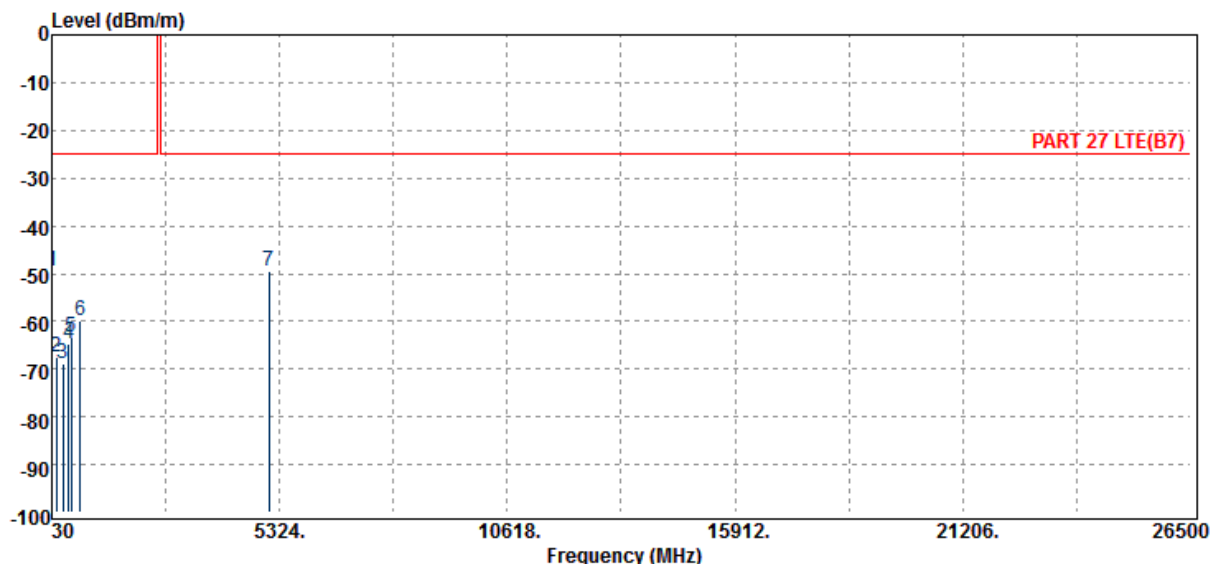
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Operation Band :LTE B7
Fundamental Frequency :2535 MHz
Operation Mode :Tx CH MID
EUT Pol. :E1 Plane

Test Date :2019-03-28
Temp./Humi. :22 deg_C / 61 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-49.56	-19.09	-30.05	-0.45	0.03	-25.00	-24.56
134.76	-67.34	-57.08	-9.39	-0.96	0.08	-25.00	-42.34
282.20	-68.69	-64.93	-2.51	-1.39	0.14	-25.00	-43.69
418.00	-64.65	-61.29	-1.85	-1.70	0.18	-25.00	-39.65
485.90	-63.44	-59.37	-2.33	-1.84	0.10	-25.00	-38.44
691.54	-60.03	-56.71	-1.35	-2.22	0.24	-25.00	-35.03
5070.00	-49.38	-55.58	12.48	-6.75	0.46	-25.00	-24.38

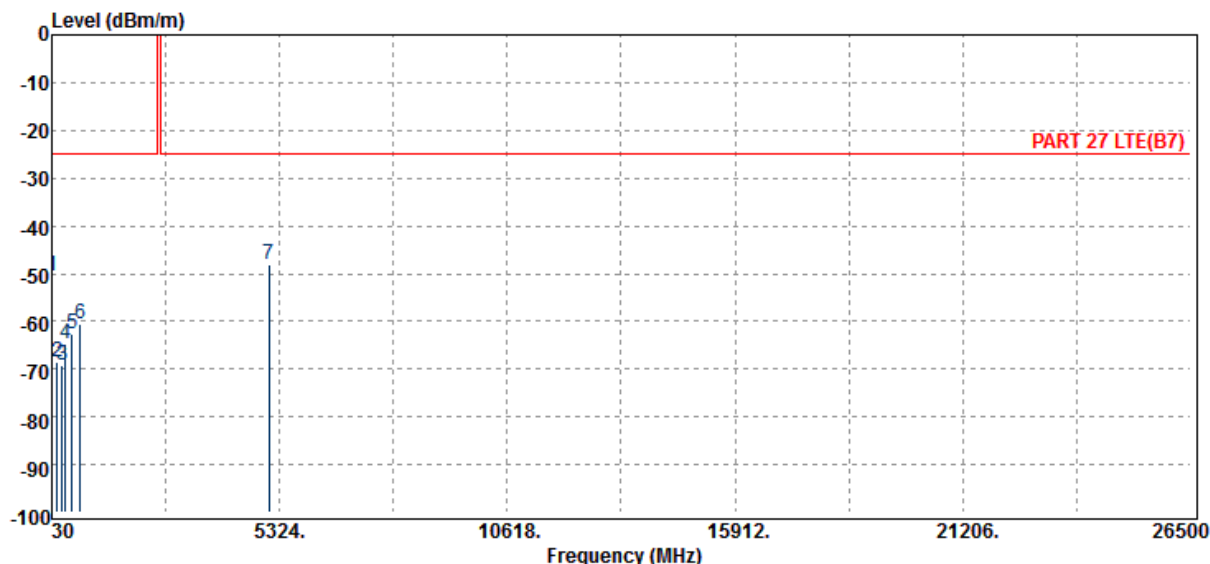
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Operation Band :LTE B7
Fundamental Frequency :2535 MHz
Operation Mode :Tx CH MID
EUT Pol. :E1 Plane

Test Date :2019-03-28
Temp./Humi. :22 deg_C / 61 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



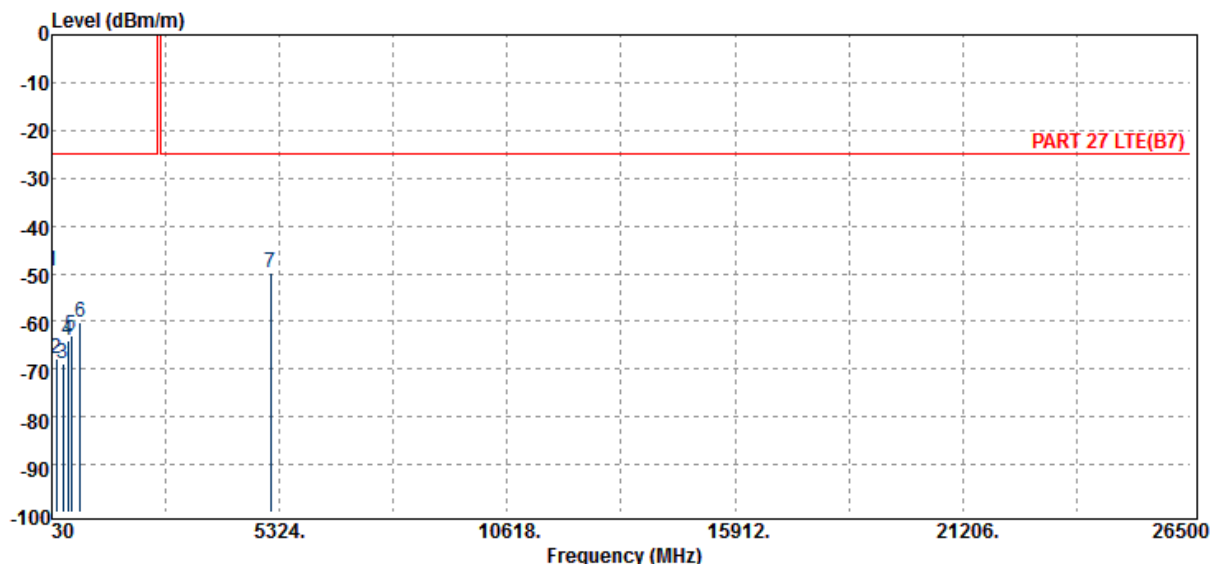
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-50.57	-20.10	-30.05	-0.45	0.03	-25.00	-25.57
146.40	-68.65	-60.24	-7.51	-1.00	0.09	-25.00	-43.65
277.35	-69.18	-65.34	-2.60	-1.38	0.15	-25.00	-44.18
353.01	-64.60	-61.44	-1.67	-1.55	0.07	-25.00	-39.60
492.69	-62.48	-58.56	-2.14	-1.85	0.07	-25.00	-37.48
691.54	-60.57	-57.25	-1.35	-2.22	0.24	-25.00	-35.57
5070.00	-48.06	-54.26	12.48	-6.75	0.46	-25.00	-23.06

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Operation Band	:LTE B7	Test Date	:2019-03-28
Fundamental Frequency	:2560 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH HIGH	Engineer	:Kane
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



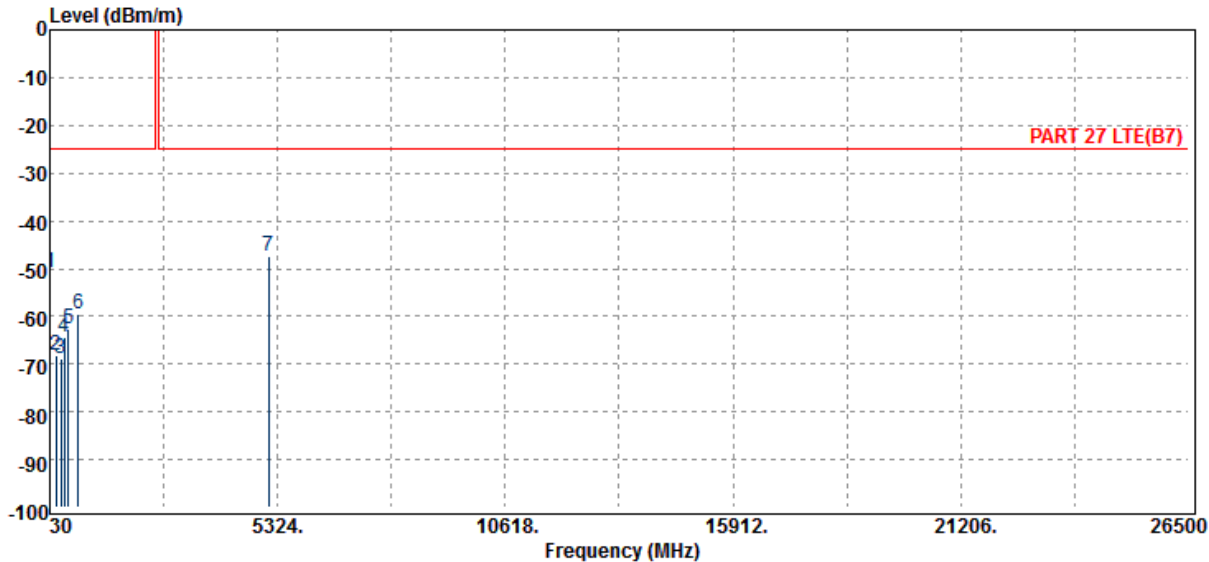
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-49.34	-18.87	-30.05	-0.45	0.03	-25.00	-24.34
141.55	-67.76	-58.60	-8.27	-0.98	0.09	-25.00	-42.76
284.14	-68.84	-65.11	-2.47	-1.39	0.13	-25.00	-43.84
401.51	-64.15	-60.93	-1.68	-1.66	0.13	-25.00	-39.15
478.14	-62.98	-58.89	-2.41	-1.82	0.14	-25.00	-37.98
692.51	-60.19	-56.86	-1.35	-2.22	0.24	-25.00	-35.19
5120.00	-49.69	-56.24	12.64	-6.75	0.65	-25.00	-24.69

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Operation Band	:LTE B7	Test Date	:2019-03-28
Fundamental Frequency	:2560 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH HIGH	Engineer	:Kane
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-50.74	-20.27	-30.05	-0.45	0.03	-25.00	-25.74
172.59	-68.08	-61.89	-5.19	-1.08	0.08	-25.00	-43.08
289.96	-68.81	-65.37	-2.15	-1.41	0.12	-25.00	-43.81
374.35	-64.45	-61.26	-1.66	-1.60	0.08	-25.00	-39.45
456.80	-62.66	-59.09	-2.05	-1.77	0.25	-25.00	-37.66
697.36	-59.66	-56.26	-1.40	-2.22	0.21	-25.00	-34.66
5120.00	-47.46	-54.00	12.64	-6.75	0.65	-25.00	-22.46

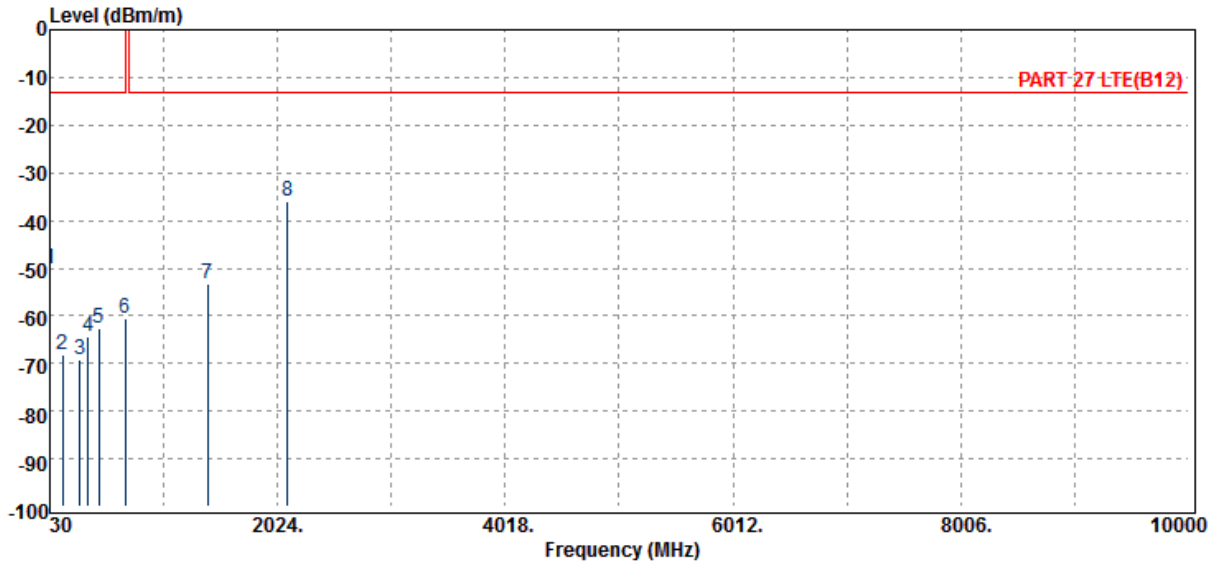
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Radiated Spurious Emission Measurement Result: LTE-Band 12 (The Worst Case)

Operation Band	:LTE B12	Test Date	:2019-03-28
Fundamental Frequency	:704 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH LOW	Engineer	:Kane
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



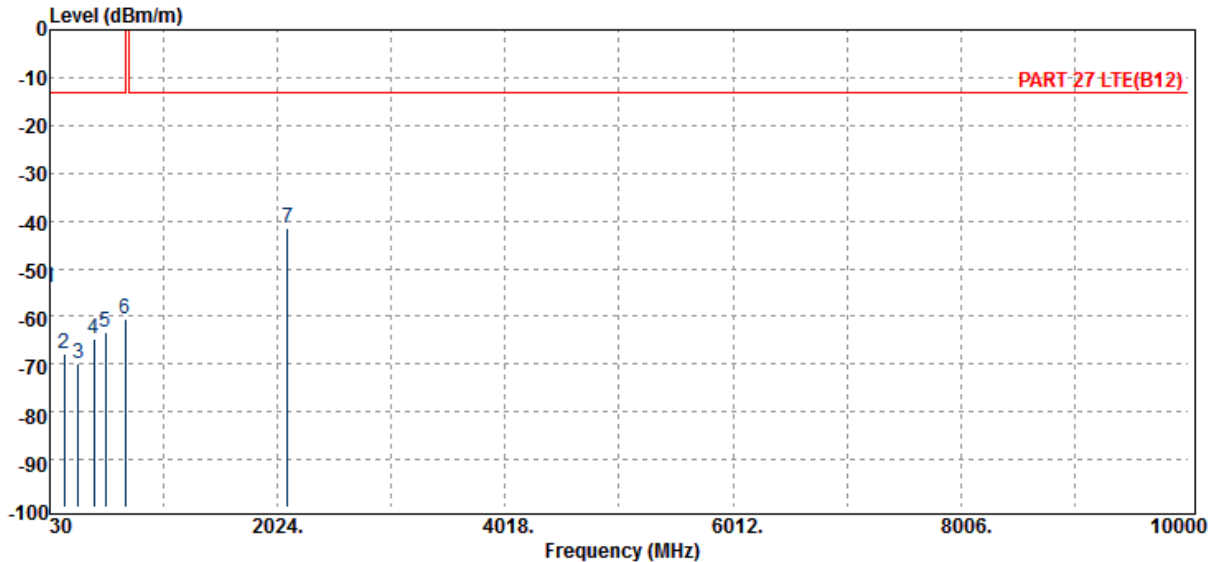
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-50.32	-19.86	-30.05	-0.45	0.04	-13.00	-37.32
144.46	-68.14	-59.46	-7.75	-0.99	0.05	-13.00	-55.14
296.75	-69.13	-65.96	-2.08	-1.42	0.33	-13.00	-56.13
362.71	-64.49	-61.48	-1.80	-1.58	0.36	-13.00	-51.49
461.65	-62.80	-59.14	-2.12	-1.78	0.24	-13.00	-49.80
689.60	-60.40	-56.84	-1.35	-2.21	0.00	-13.00	-47.40
1408.00	-53.13	-58.44	8.05	-3.25	0.51	-13.00	-40.13
2112.00	-35.83	-42.73	9.70	-4.09	1.29	-13.00	-22.83

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Operation Band	:LTE B12	Test Date	:2019-03-28
Fundamental Frequency	:704 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH LOW	Engineer	:Kane
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-54.04	-23.58	-30.05	-0.45	0.04	-13.00	-41.04
153.19	-67.79	-59.94	-6.89	-1.02	0.06	-13.00	-54.79
280.26	-69.76	-66.08	-2.54	-1.38	0.25	-13.00	-56.76
413.15	-64.60	-61.36	-1.81	-1.69	0.26	-13.00	-51.60
517.91	-63.29	-60.16	-1.45	-1.90	0.22	-13.00	-50.29
692.51	-60.67	-57.10	-1.35	-2.22	0.00	-13.00	-47.67
2112.00	-41.43	-48.33	9.70	-4.09	1.29	-13.00	-28.43

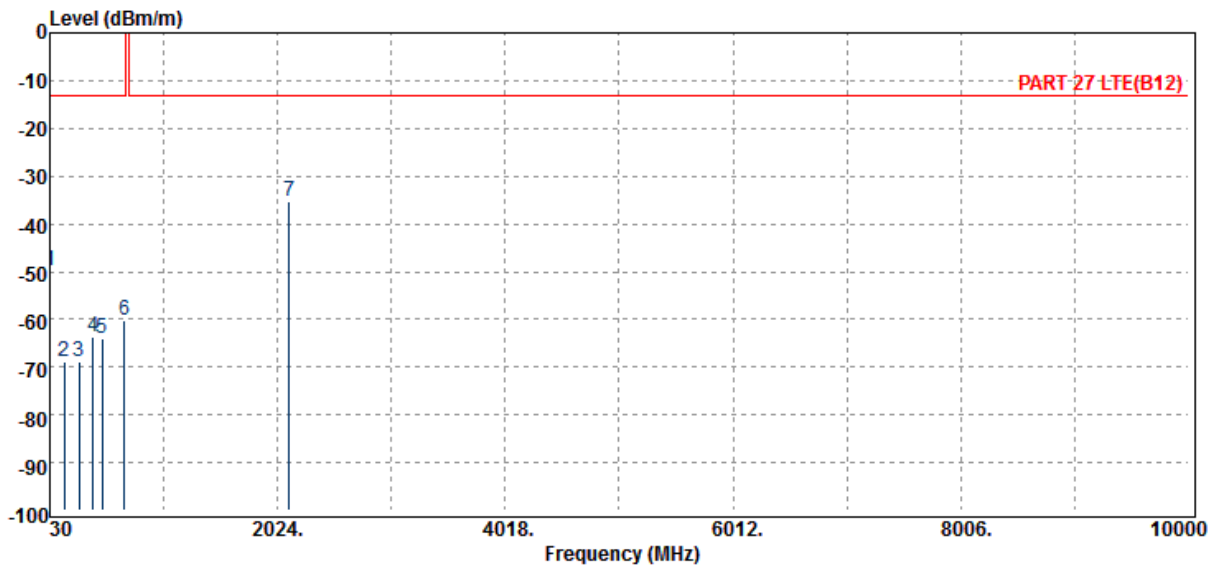
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Operation Band :LTE B12
Fundamental Frequency :707.5 MHz
Operation Mode :Tx CH MID
EUT Pol. :E1 Plane

Test Date :2019-03-28
Temp./Humi. :22 deg_C / 61 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-49.98	-19.52	-30.05	-0.45	0.04	-13.00	-36.98
158.04	-68.73	-61.33	-6.44	-1.04	0.08	-13.00	-55.73
288.99	-68.87	-65.55	-2.21	-1.41	0.29	-13.00	-55.87
408.30	-63.84	-60.68	-1.75	-1.68	0.26	-13.00	-50.84
490.75	-64.17	-60.33	-2.22	-1.85	0.23	-13.00	-51.17
684.75	-60.23	-56.72	-1.35	-2.21	0.04	-13.00	-47.23
2122.50	-35.33	-42.04	9.62	-4.11	1.20	-13.00	-22.33

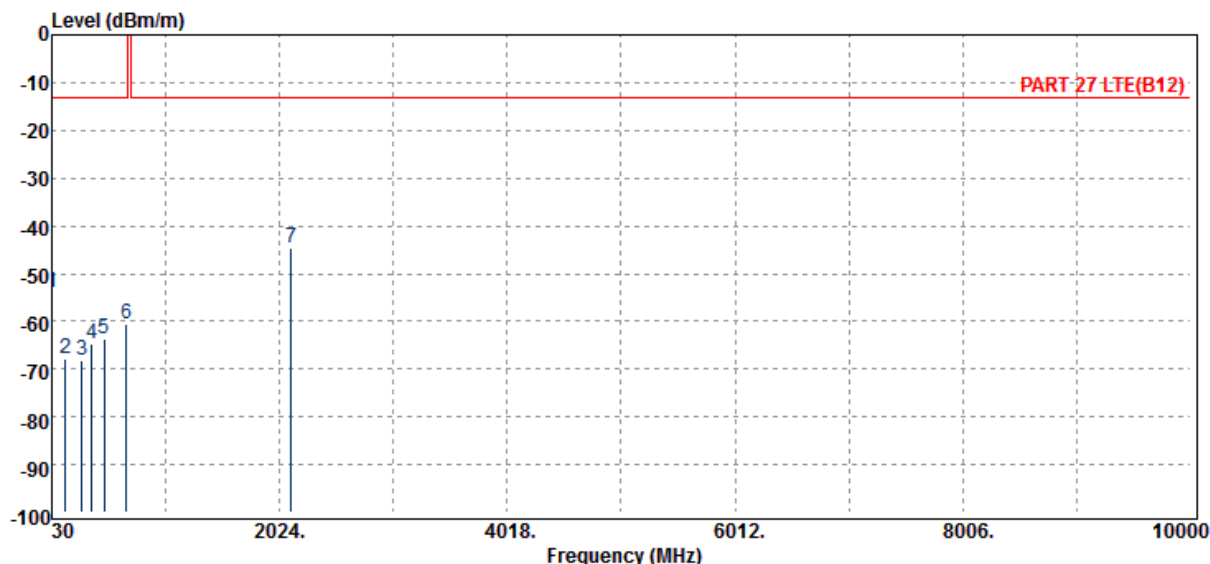
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Operation Band :LTE B12
Fundamental Frequency :707.5 MHz
Operation Mode :Tx CH MID
EUT Pol. :E1 Plane

Test Date :2019-03-28
Temp./Humi. :22 deg_C / 61 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



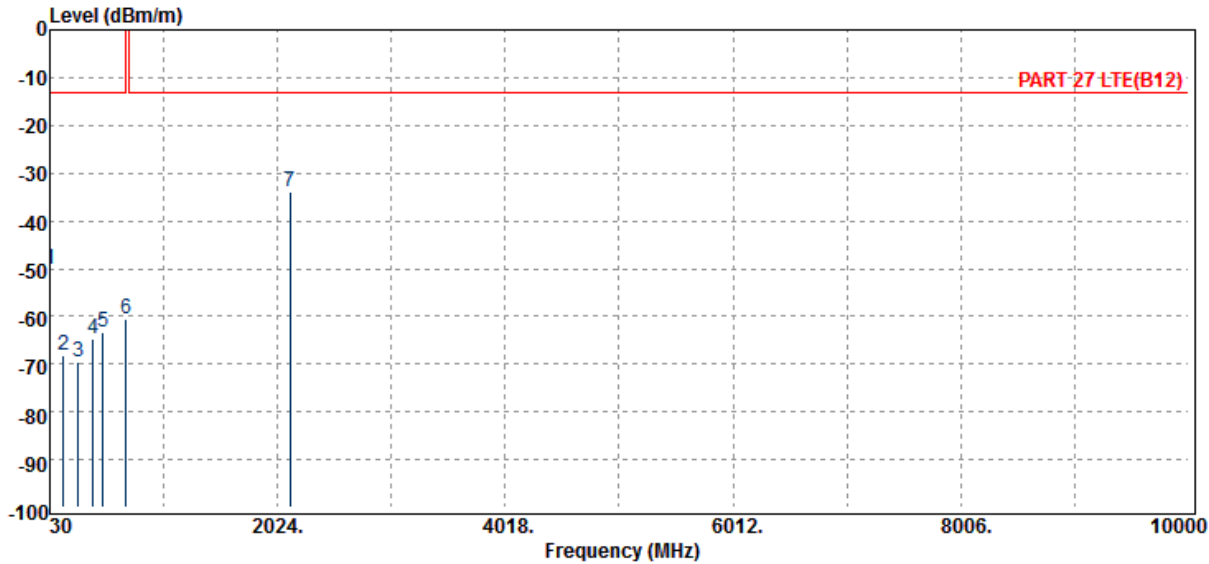
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-54.13	-23.67	-30.05	-0.45	0.04	-13.00	-41.13
151.25	-67.69	-59.68	-7.05	-1.01	0.05	-13.00	-54.69
289.96	-68.04	-64.78	-2.15	-1.41	0.30	-13.00	-55.04
377.26	-64.83	-61.93	-1.60	-1.61	0.31	-13.00	-51.83
488.81	-63.62	-59.73	-2.27	-1.84	0.23	-13.00	-50.62
684.75	-60.64	-57.13	-1.35	-2.21	0.04	-13.00	-47.64
2122.50	-44.65	-51.37	9.62	-4.11	1.20	-13.00	-31.65

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Operation Band	:LTE B12	Test Date	:2019-03-28
Fundamental Frequency	:711 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH HIGH	Engineer	:Kane
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



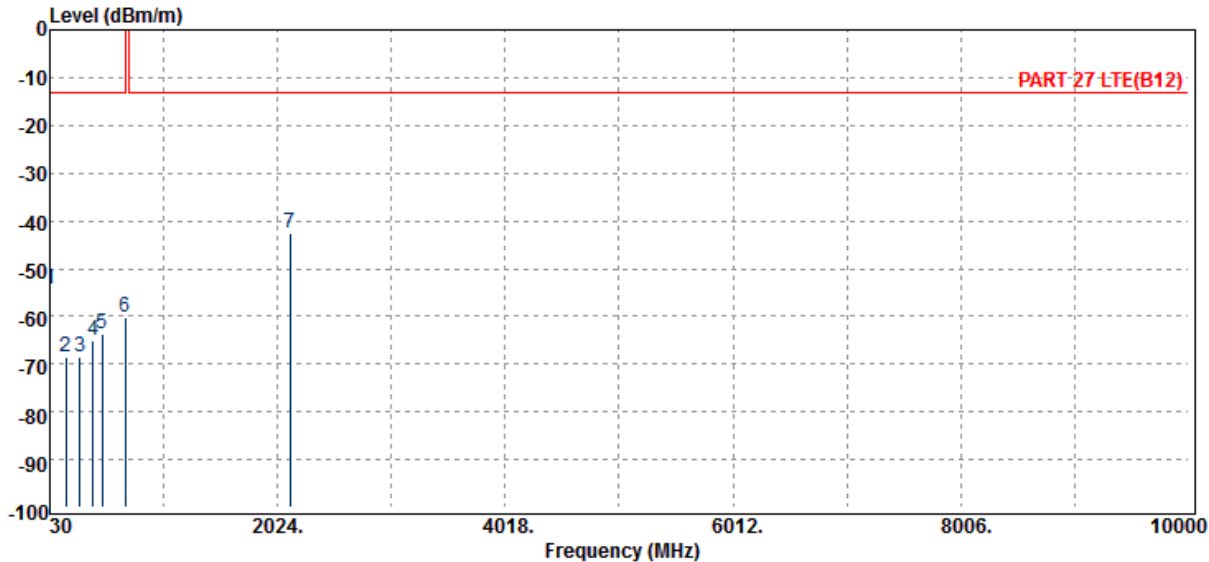
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-50.09	-19.63	-30.05	-0.45	0.04	-13.00	-37.09
146.40	-68.29	-59.84	-7.51	-1.00	0.05	-13.00	-55.29
279.29	-69.59	-65.89	-2.56	-1.38	0.24	-13.00	-56.59
406.36	-64.62	-61.46	-1.75	-1.67	0.26	-13.00	-51.62
493.66	-63.41	-59.67	-2.10	-1.86	0.23	-13.00	-50.41
700.27	-60.65	-56.97	-1.45	-2.23	0.00	34.77	-95.42
2133.00	-33.85	-40.40	9.53	-4.12	1.14	-13.00	-20.85

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Operation Band	:LTE B12	Test Date	:2019-03-28
Fundamental Frequency	:711 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH HIGH	Engineer	:Kane
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-54.29	-23.83	-30.05	-0.45	0.04	-13.00	-41.29
170.65	-68.41	-62.09	-5.38	-1.08	0.14	-13.00	-55.41
294.81	-68.56	-65.31	-2.15	-1.42	0.32	-13.00	-55.56
411.21	-65.10	-61.90	-1.77	-1.68	0.26	-13.00	-52.10
488.81	-63.83	-59.94	-2.27	-1.84	0.23	-13.00	-50.83
692.51	-60.22	-56.65	-1.35	-2.22	0.00	-13.00	-47.22
2133.00	-42.64	-49.19	9.53	-4.12	1.14	-13.00	-29.64

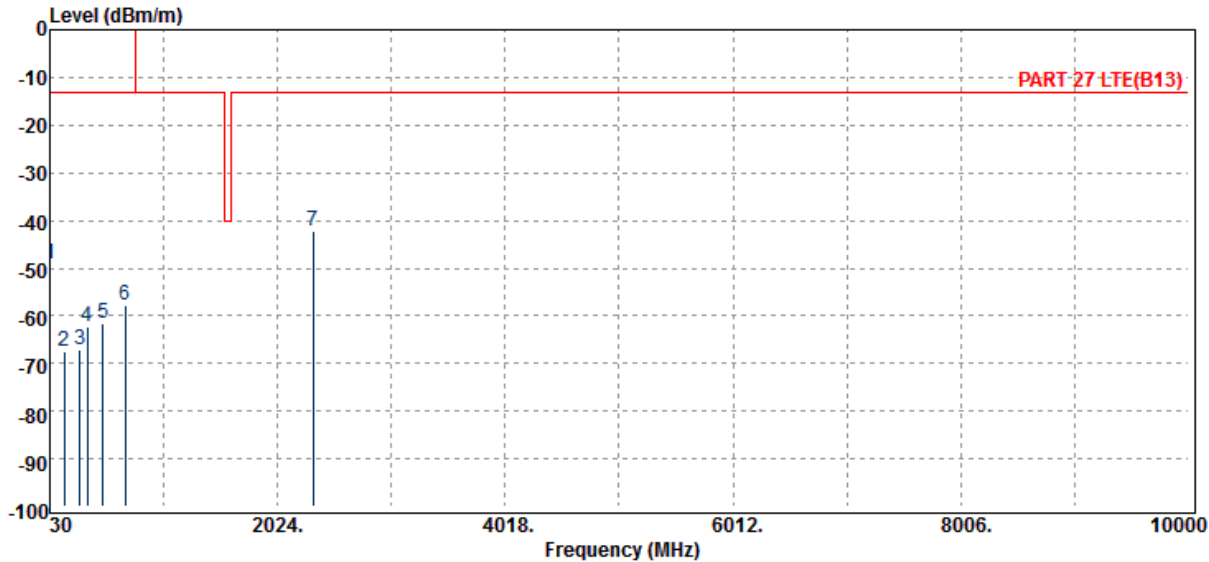
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Radiated Spurious Emission Measurement Result: LTE-Band 13 (The Worst Case)

Operation Band	:LTE B13	Test Date	:2019-03-28
Fundamental Frequency	:779.5 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH LOW	Engineer	:Kane
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



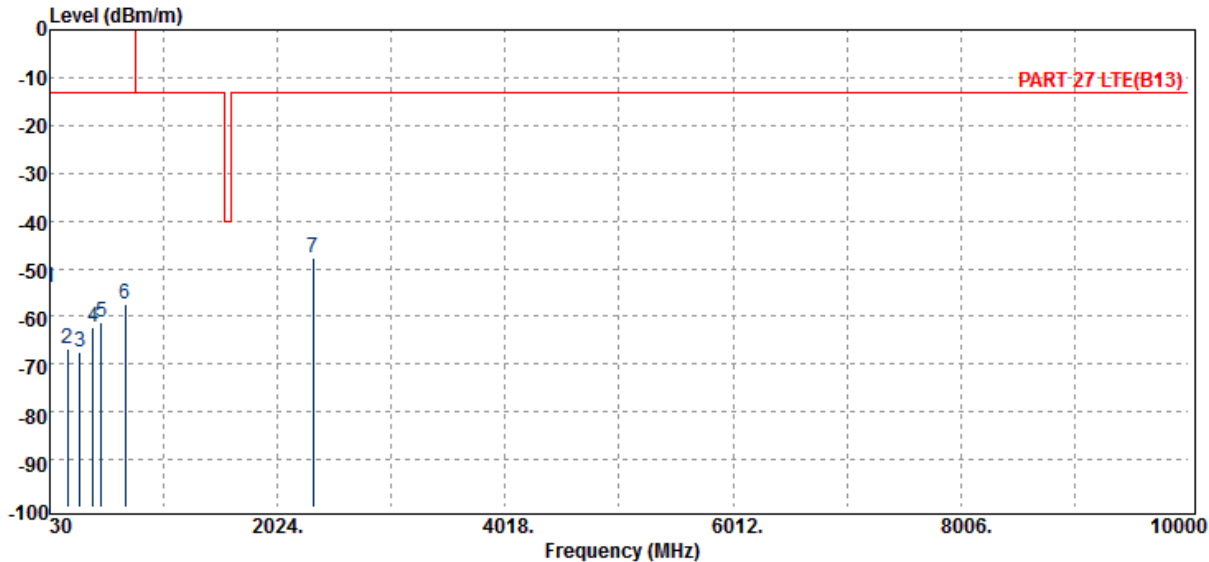
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-49.22	-18.85	-30.05	-0.45	0.13	-13.00	-36.22
153.19	-67.39	-59.60	-6.89	-1.02	0.12	-13.00	-54.39
293.84	-67.05	-63.58	-2.15	-1.42	0.10	-13.00	-54.05
361.74	-62.15	-58.97	-1.82	-1.58	0.21	-13.00	-49.15
492.69	-61.53	-57.69	-2.14	-1.85	0.16	-13.00	-48.53
692.51	-57.81	-55.15	-1.35	-2.22	0.90	-13.00	-44.81
2338.50	-42.32	-48.18	9.81	-4.36	0.41	-13.00	-29.32

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Operation Band	:LTE B13	Test Date	:2019-03-28
Fundamental Frequency	:779.5 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH LOW	Engineer	:Kane
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



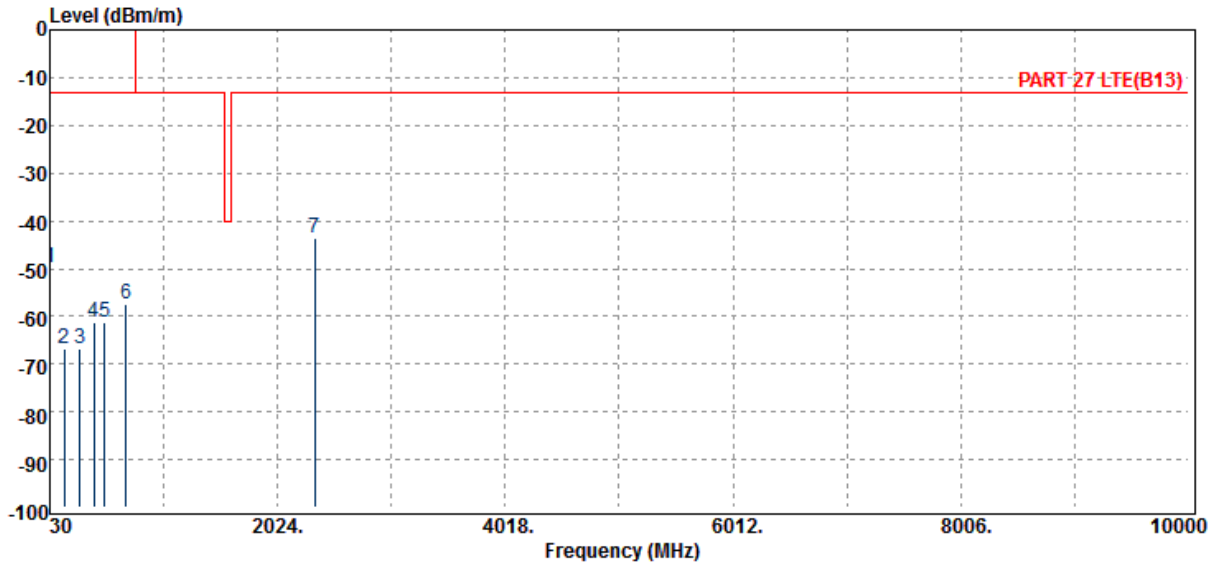
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-54.04	-23.67	-30.05	-0.45	0.13	-13.00	-41.04
182.29	-66.86	-61.60	-4.27	-1.11	0.12	-13.00	-53.86
294.81	-67.36	-63.89	-2.15	-1.42	0.10	-13.00	-54.36
410.24	-62.19	-59.01	-1.75	-1.68	0.26	-13.00	-49.19
481.05	-61.30	-57.21	-2.43	-1.83	0.17	-13.00	-48.30
691.54	-57.49	-54.82	-1.35	-2.22	0.90	-13.00	-44.49
2338.50	-47.60	-53.46	9.81	-4.36	0.41	-13.00	-34.60

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Operation Band	:LTE B13	Test Date	:2019-03-28
Fundamental Frequency	:782 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH MID	Engineer	:Kane
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



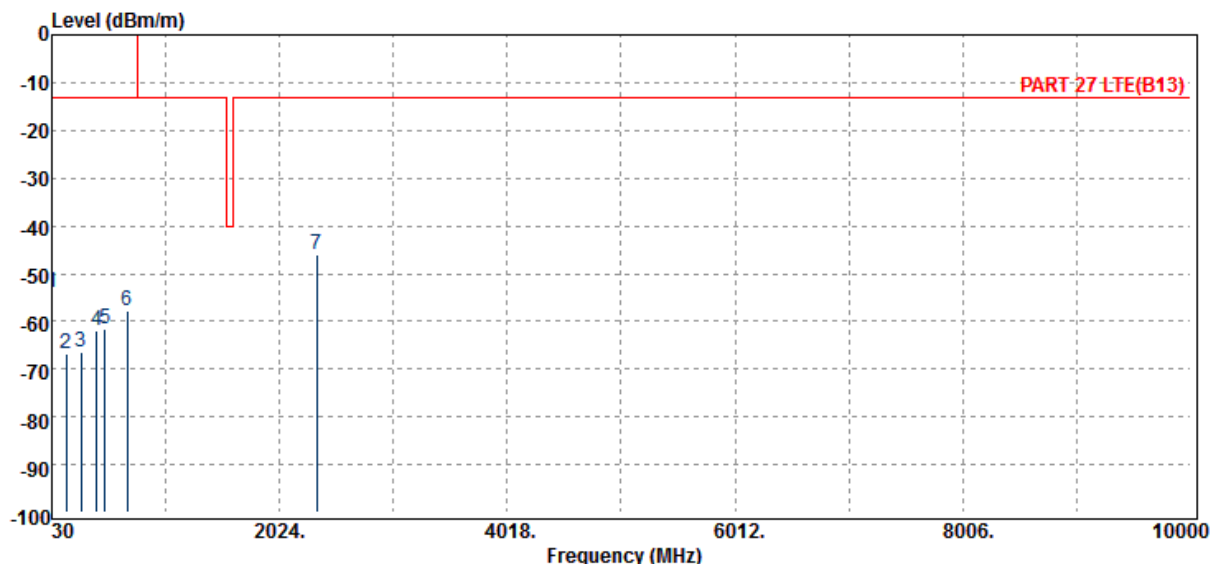
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-49.74	-19.37	-30.05	-0.45	0.13	-13.00	-36.74
159.01	-66.67	-59.40	-6.35	-1.04	0.12	-13.00	-53.67
296.75	-66.95	-63.54	-2.08	-1.42	0.10	-13.00	-53.95
413.15	-61.33	-58.09	-1.81	-1.69	0.26	-13.00	-48.33
507.24	-61.25	-57.76	-1.76	-1.89	0.15	-13.00	-48.25
697.36	-57.42	-54.74	-1.40	-2.22	0.94	-13.00	-44.42
2346.00	-43.53	-49.44	9.87	-4.36	0.41	-13.00	-30.53

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Operation Band	:LTE B13	Test Date	:2019-03-28
Fundamental Frequency	:782 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH MID	Engineer	:Kane
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-53.92	-23.55	-30.05	-0.45	0.13	-13.00	-40.92
154.16	-66.71	-59.00	-6.82	-1.02	0.12	-13.00	-53.71
287.05	-66.52	-62.89	-2.33	-1.40	0.10	-13.00	-53.52
419.94	-61.87	-58.56	-1.85	-1.70	0.25	-13.00	-48.87
498.51	-61.76	-58.07	-1.98	-1.87	0.15	-13.00	-48.76
686.69	-57.70	-55.01	-1.35	-2.21	0.86	-13.00	-44.70
2346.00	-46.17	-52.08	9.87	-4.36	0.41	-13.00	-33.17

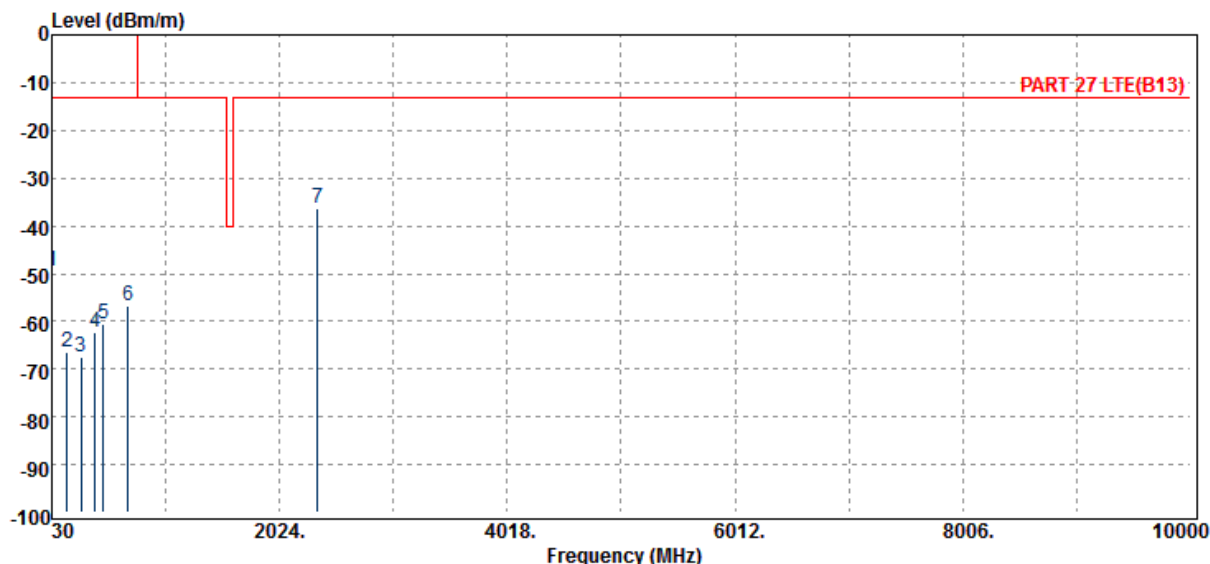
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Operation Band :LTE B13
Fundamental Frequency :784.5 MHz
Operation Mode :Tx CH HIGH
EUT Pol. :E1 Plane

Test Date :2019-03-28
Temp./Humi. :22 deg_C / 61 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



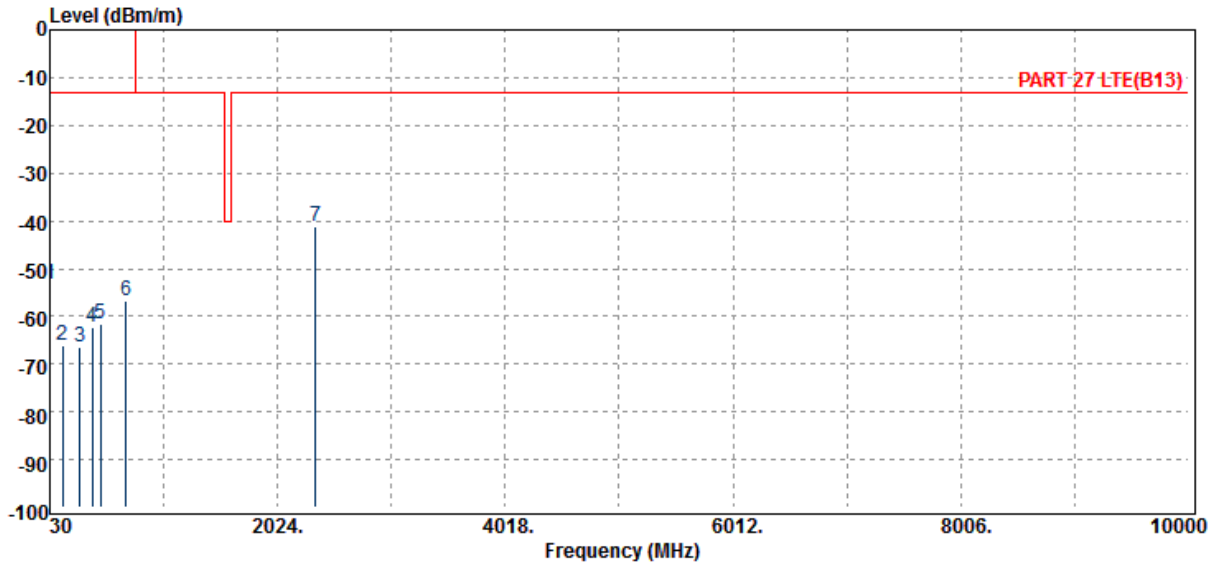
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-49.50	-19.13	-30.05	-0.45	0.13	-13.00	-36.50
165.80	-66.57	-59.84	-5.79	-1.06	0.12	-13.00	-53.57
287.05	-67.50	-63.88	-2.33	-1.40	0.10	-13.00	-54.50
406.36	-62.41	-59.26	-1.75	-1.67	0.27	-13.00	-49.41
478.14	-60.57	-56.51	-2.41	-1.82	0.17	-13.00	-47.57
699.30	-56.68	-53.97	-1.44	-2.23	0.95	-13.00	-43.68
2353.50	-36.22	-42.18	9.93	-4.37	0.41	-13.00	-23.22

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Operation Band	:LTE B13	Test Date	:2019-03-28
Fundamental Frequency	:784.5 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH HIGH	Engineer	:Kane
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-53.41	-23.04	-30.05	-0.45	0.13	-13.00	-40.41
143.49	-66.20	-57.42	-7.92	-0.99	0.12	-13.00	-53.20
291.90	-66.45	-62.98	-2.15	-1.41	0.10	-13.00	-53.45
403.45	-62.44	-59.33	-1.72	-1.67	0.27	-13.00	-49.44
471.35	-61.64	-57.67	-2.35	-1.80	0.18	-13.00	-48.64
694.45	-56.90	-54.25	-1.35	-2.22	0.92	-13.00	-43.90
2353.50	-41.03	-46.99	9.93	-4.37	0.41	-13.00	-28.03

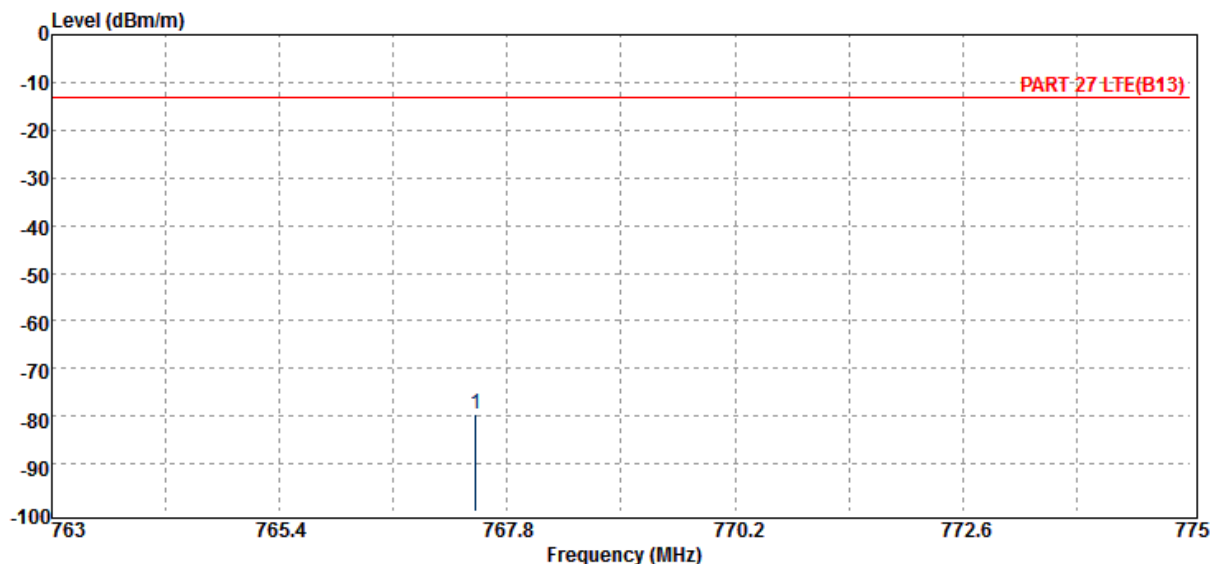
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Radiated Spurious Emission Measurement Result: LTE-Band 13 (763~775MHz)

Operation Band	:LTE B13	Test Date	:2019-03-28
Fundamental Frequency	:779.5 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH LOW	Engineer	:Kane
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



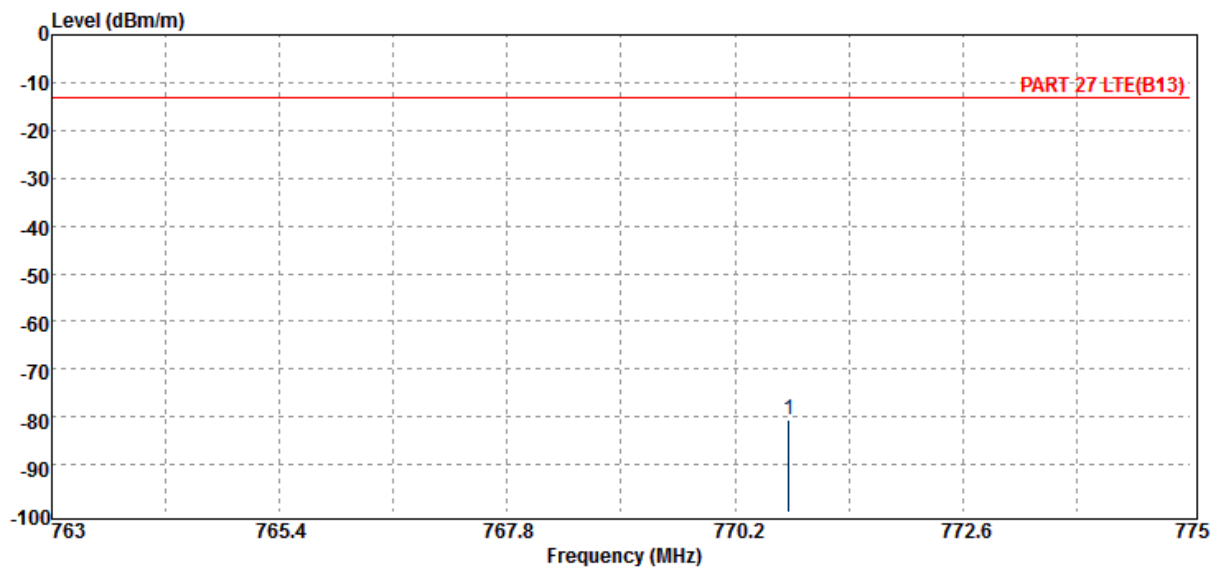
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
767.46	-79.60	-75.92	-1.35	-2.33	0.00	-13.00	-66.60

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Operation Band	:LTE B13	Test Date	:2019-03-28
Fundamental Frequency	:779.5 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH LOW	Engineer	:Kane
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



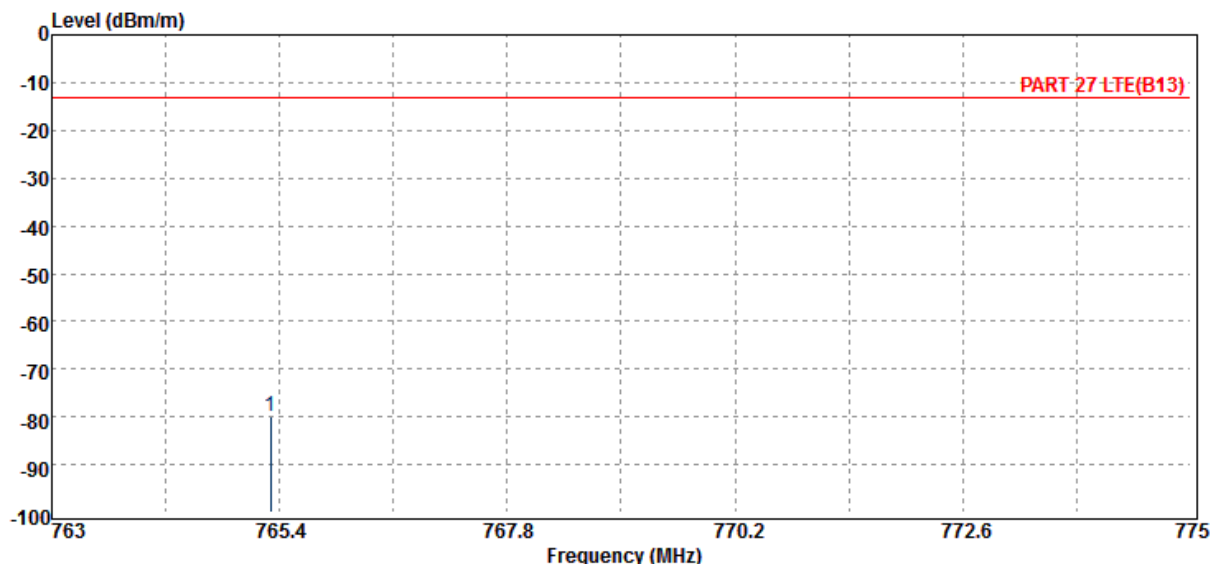
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
770.76	-80.75	-77.05	-1.37	-2.33	0.00	-13.00	-67.75

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Operation Band	:LTE B13	Test Date	:2019-03-28
Fundamental Frequency	:782 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH MID	Engineer	:Kane
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



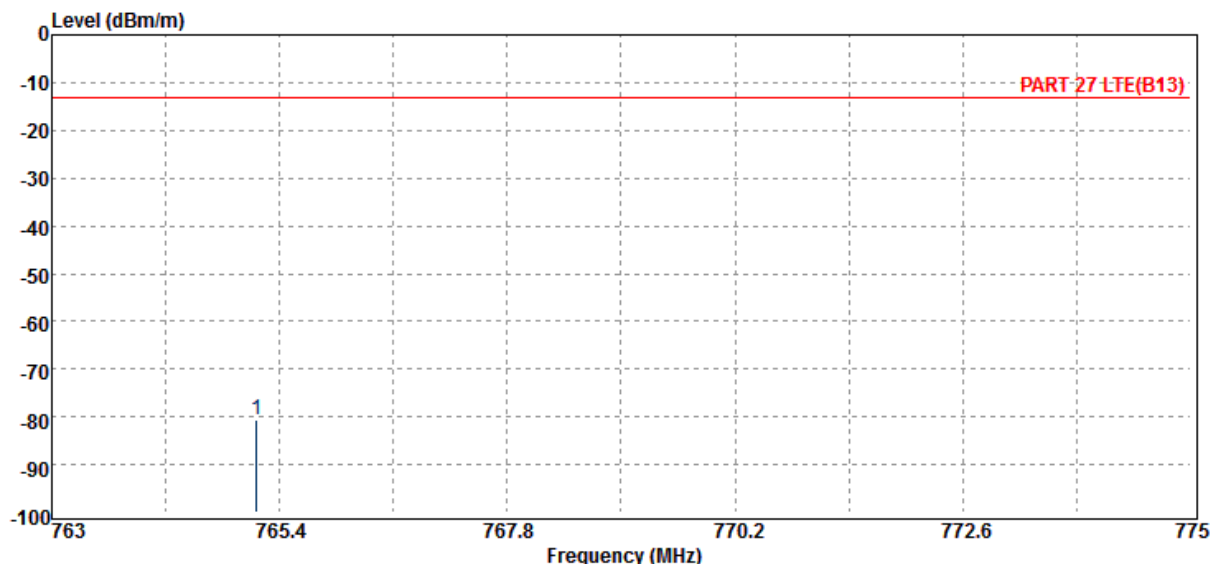
Freq.	ERP/EIRP	SG	Antenna	Cable	Filter	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBd/dBi	Loss dB	dB	dBm	dB
765.30	-79.88	-76.20	-1.35	-2.33	0.00	-13.00	-66.88

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Operation Band	:LTE B13	Test Date	:2019-03-28
Fundamental Frequency	:782 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH MID	Engineer	:Kane
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



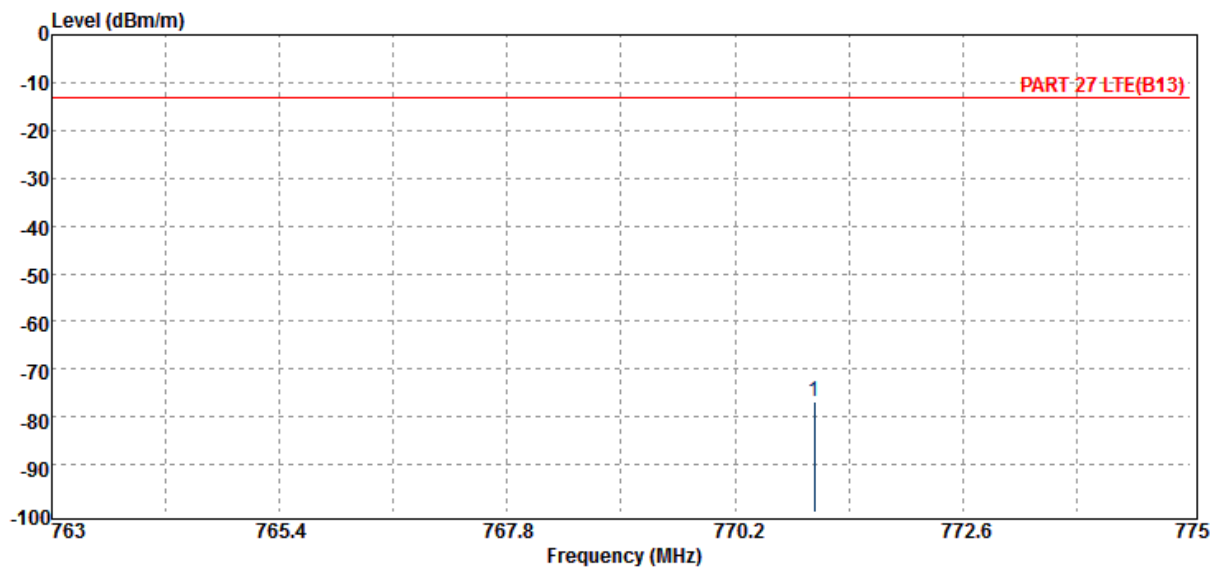
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
765.16	-80.78	-77.10	-1.35	-2.33	0.00	-13.00	-67.78

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Operation Band	:LTE B13	Test Date	:2019-03-28
Fundamental Frequency	:784.5 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH HIGH	Engineer	:Kane
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



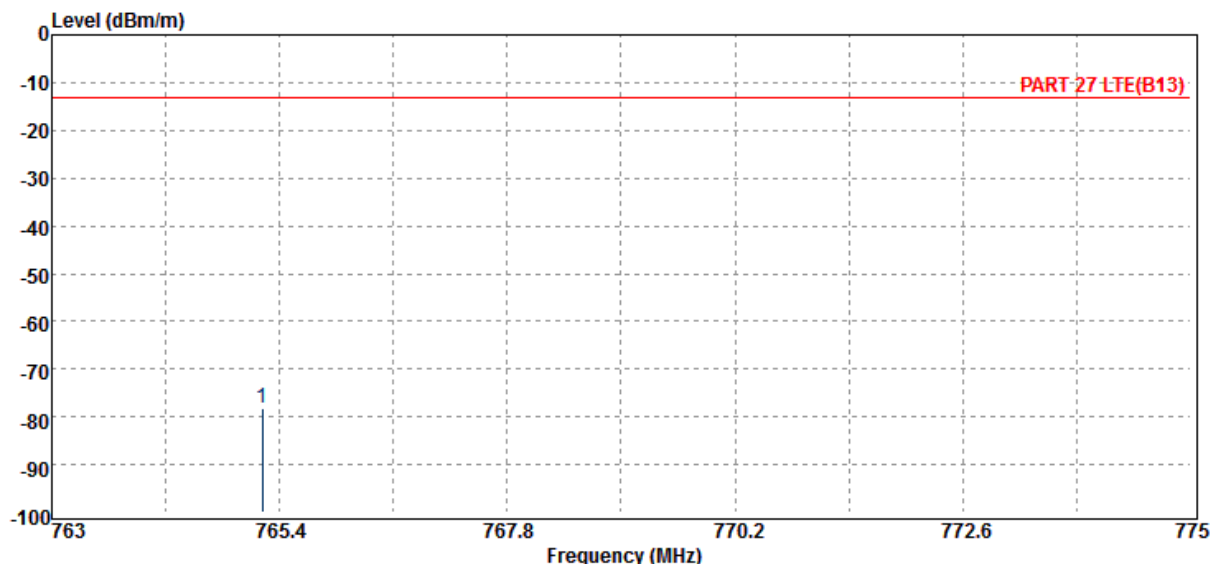
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
771.04	-76.87	-73.16	-1.37	-2.33	0.00	-13.00	-63.87

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Operation Band	:LTE B13	Test Date	:2019-03-28
Fundamental Frequency	:784.5 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH HIGH	Engineer	:Kane
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	ERP/EIRP	SG	Antenna	Cable	Filter	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBd/dBi	Loss dB	dB	dBm	dB
765.22	-78.35	-74.67	-1.35	-2.33	0.00	-13.00	-65.35

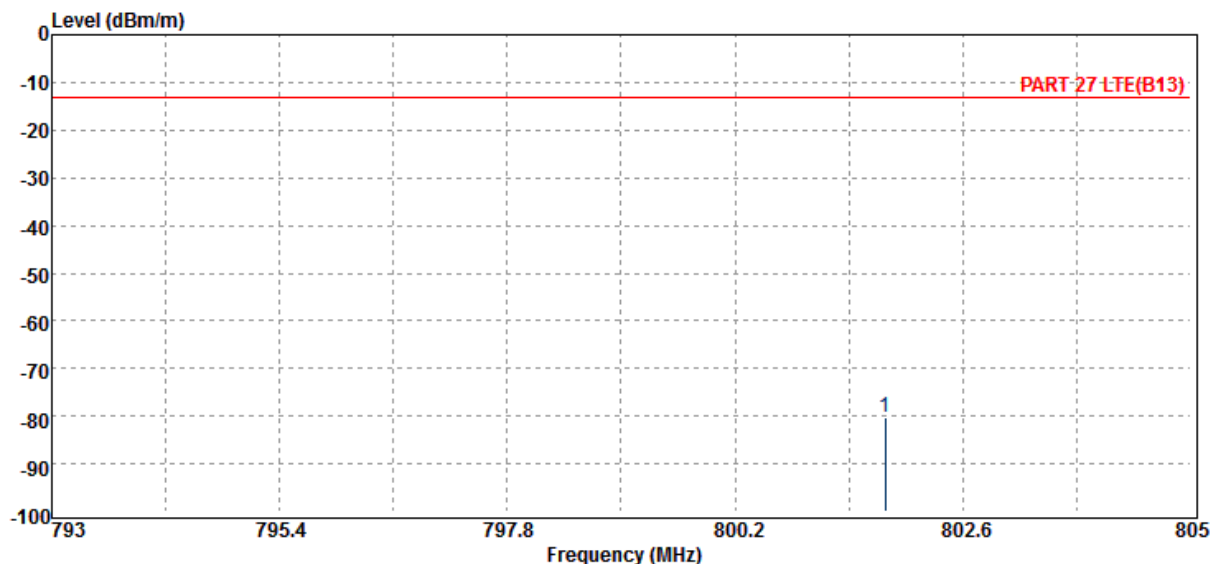
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Radiated Spurious Emission Measurement Result: LTE-Band 13 (793~805MHz)

Operation Band	:LTE B13	Test Date	:2019-03-28
Fundamental Frequency	:779.5 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH LOW	Engineer	:Kane
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



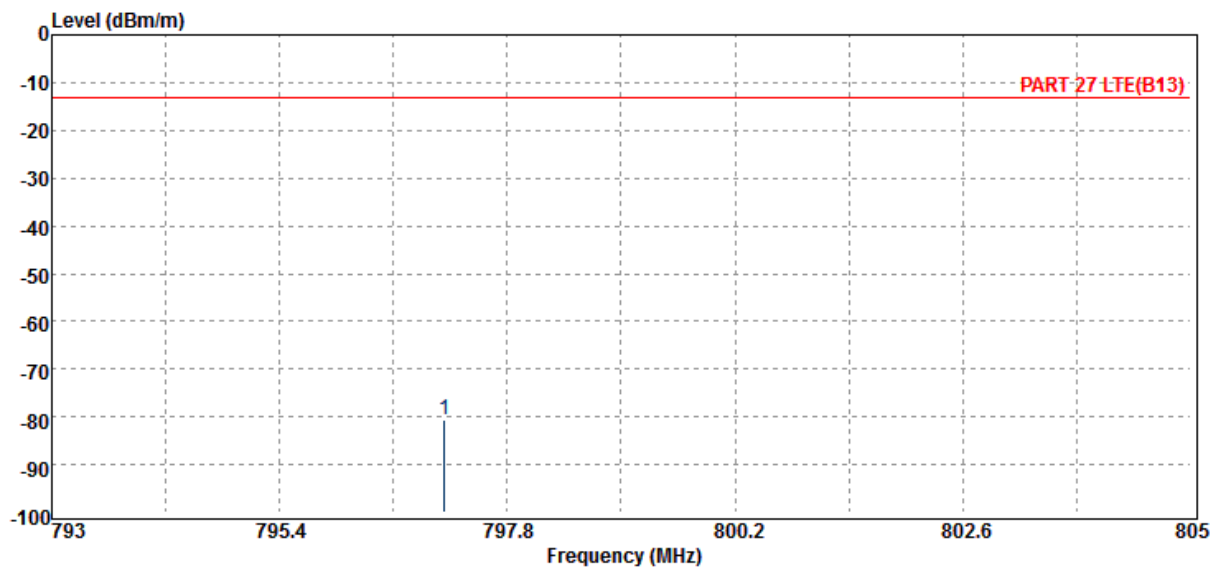
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
801.78	-80.22	-76.52	-1.32	-2.38	0.00	-13.00	-67.22

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Operation Band	:LTE B13	Test Date	:2019-03-28
Fundamental Frequency	:779.5 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH LOW	Engineer	:Kane
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



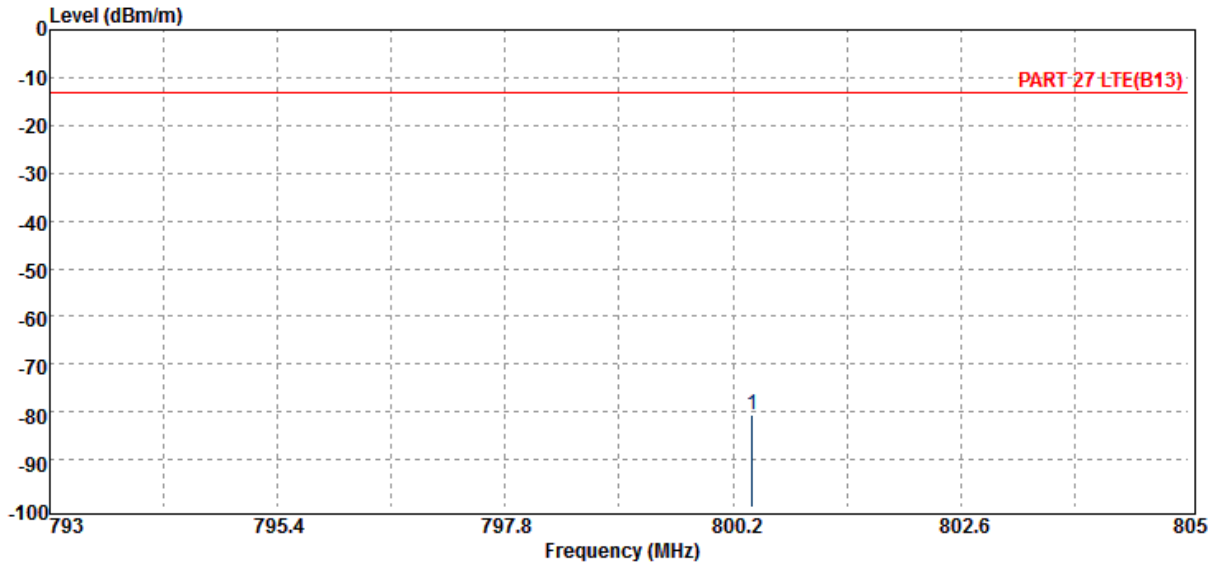
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
797.14	-80.73	-77.11	-1.25	-2.37	0.00	-13.00	-67.73

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Operation Band	:LTE B13	Test Date	:2019-03-28
Fundamental Frequency	:782 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH MID	Engineer	:Kane
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



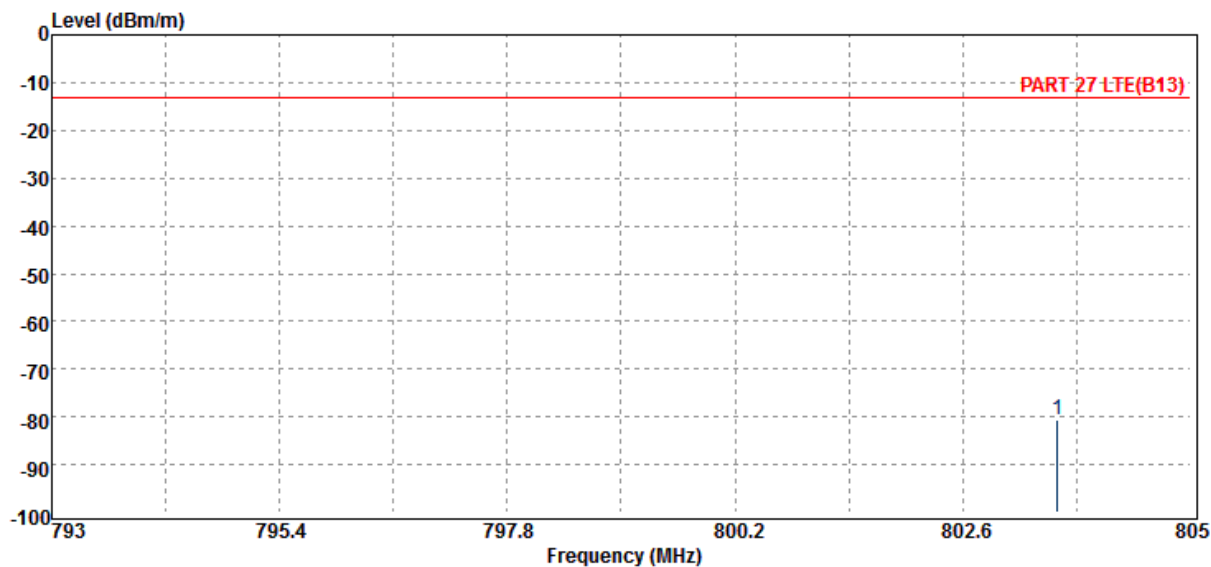
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
800.40	-80.62	-76.98	-1.27	-2.38	0.00	-13.00	-67.62

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Operation Band	:LTE B13	Test Date	:2019-03-28
Fundamental Frequency	:782 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH MID	Engineer	:Kane
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



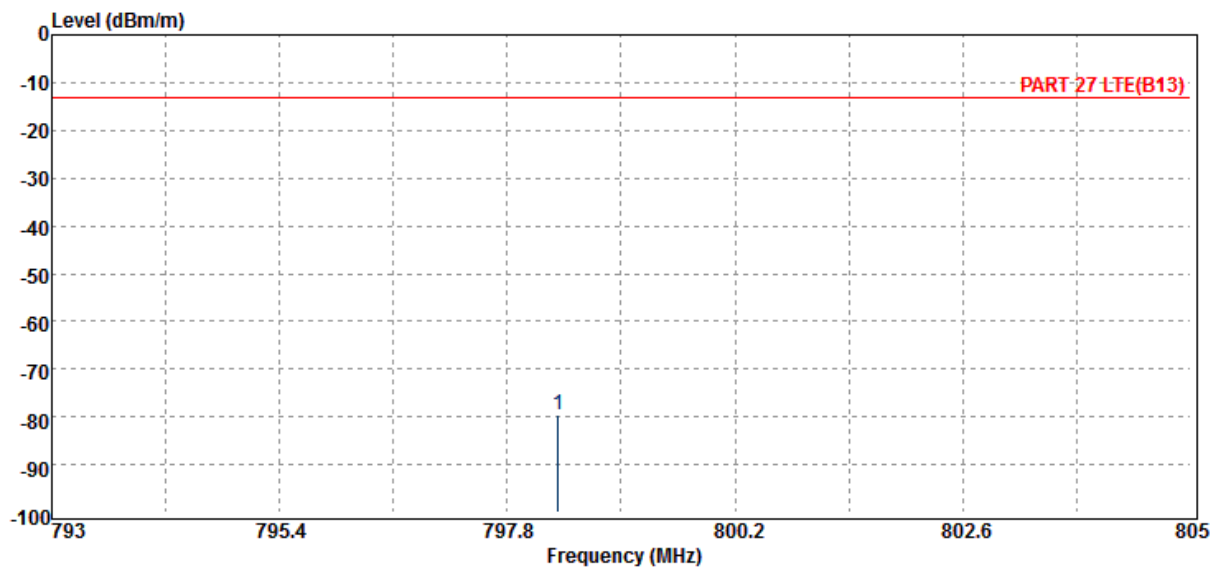
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
803.60	-80.77	-76.99	-1.39	-2.38	0.00	-13.00	-67.77

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Operation Band	:LTE B13	Test Date	:2019-03-28
Fundamental Frequency	:784.5 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH HIGH	Engineer	:Kane
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



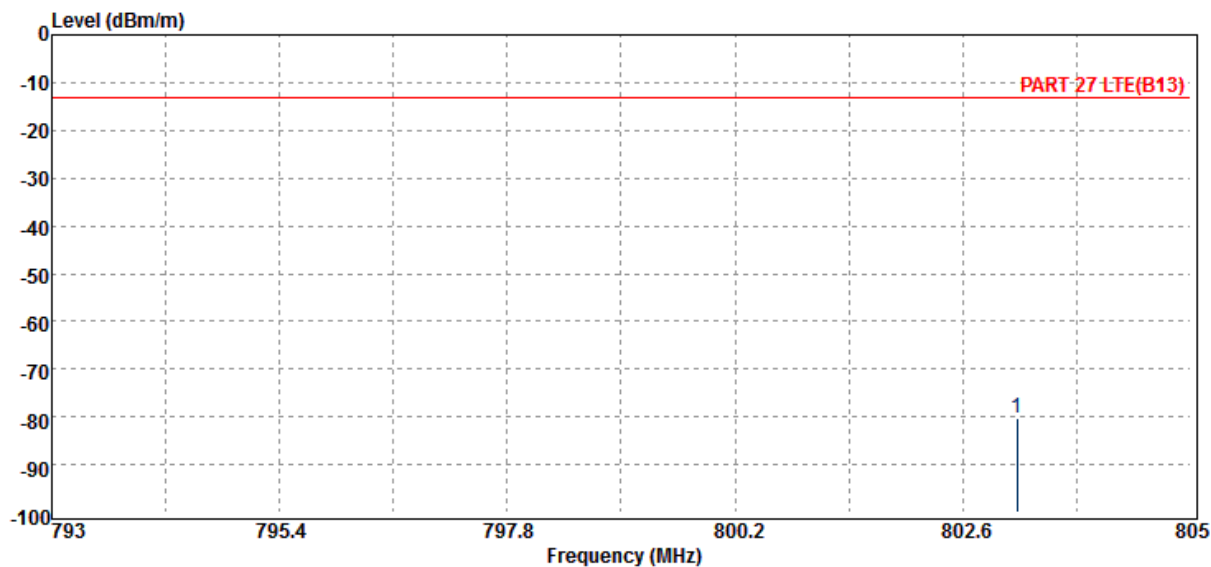
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
798.34	-79.48	-75.85	-1.25	-2.37	0.00	-13.00	-66.48

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Operation Band	:LTE B13	Test Date	:2019-03-28
Fundamental Frequency	:784.5 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH HIGH	Engineer	:Kane
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	ERP/EIRP	SG	Antenna	Cable	Filter	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBd/dBi	Loss dB	dB	dBm	dB
803.18	-80.27	-76.51	-1.38	-2.38	0.00	-13.00	-67.27

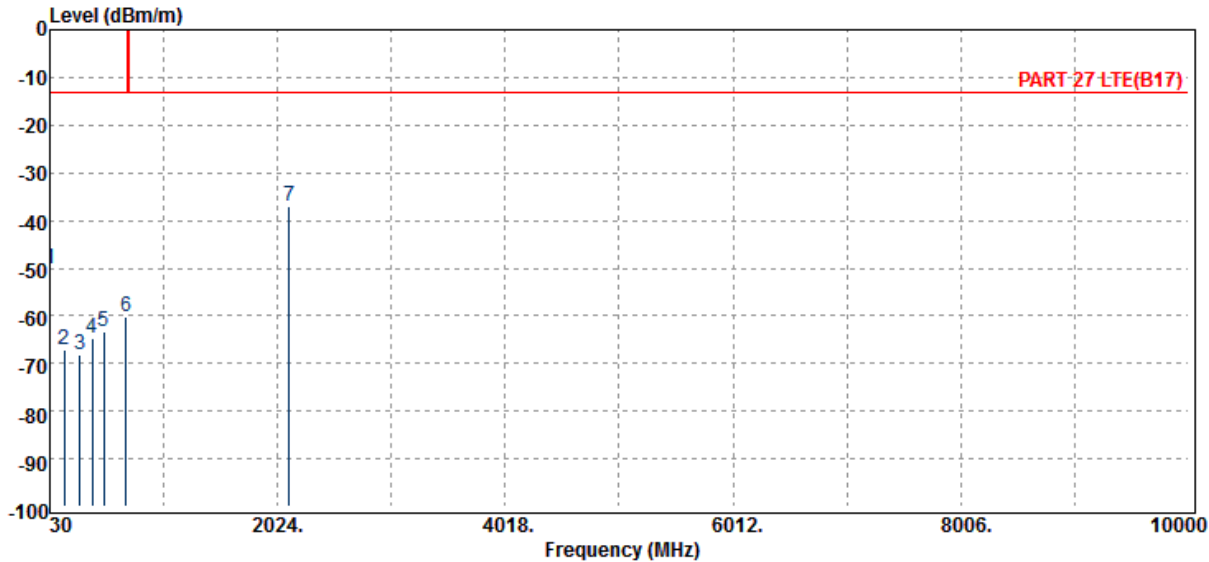
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Radiated Spurious Emission Measurement Result: LTE-Band 17 (The Worst Case)

Operation Band	:LTE B17	Test Date	:2019-03-28
Fundamental Frequency	:709 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH LOW	Engineer	:Kane
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



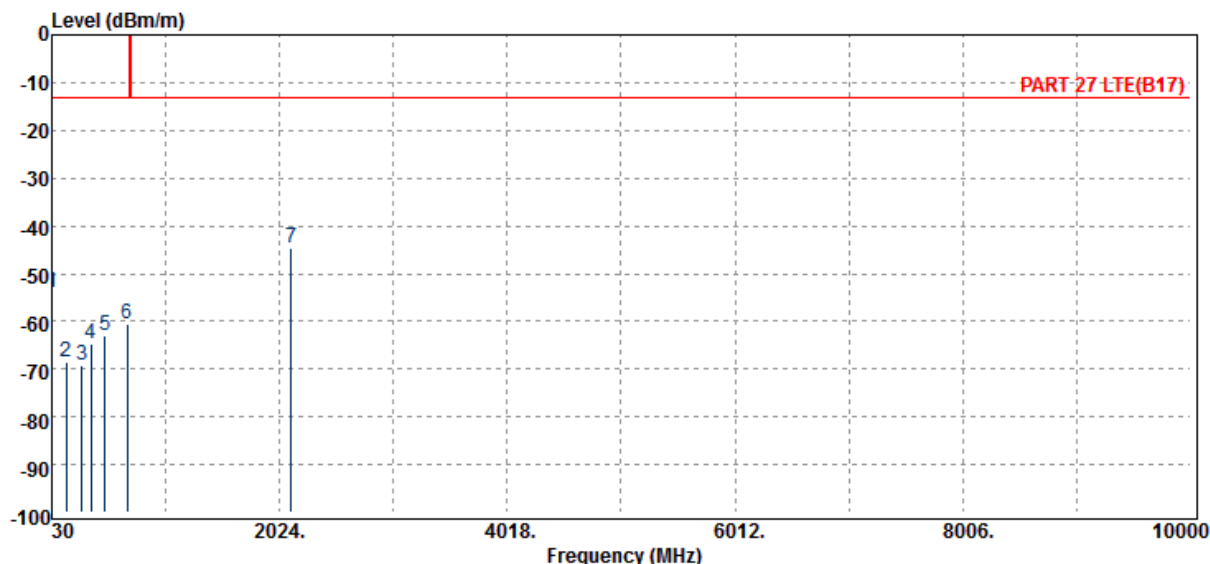
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-50.08	-19.71	-30.05	-0.45	0.13	-13.00	-37.08
158.04	-67.10	-59.74	-6.44	-1.04	0.12	-13.00	-54.10
289.96	-68.06	-64.60	-2.15	-1.41	0.10	-13.00	-55.06
400.54	-64.65	-61.60	-1.66	-1.66	0.27	-13.00	-51.65
500.45	-63.24	-59.58	-1.94	-1.87	0.15	-13.00	-50.24
696.39	-60.15	-57.48	-1.38	-2.22	0.93	-13.00	-47.15
2127.00	-37.06	-43.69	9.58	-4.11	1.16	-13.00	-24.06

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Operation Band	:LTE B17	Test Date	:2019-03-28
Fundamental Frequency	:709 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH LOW	Engineer	:Kane
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



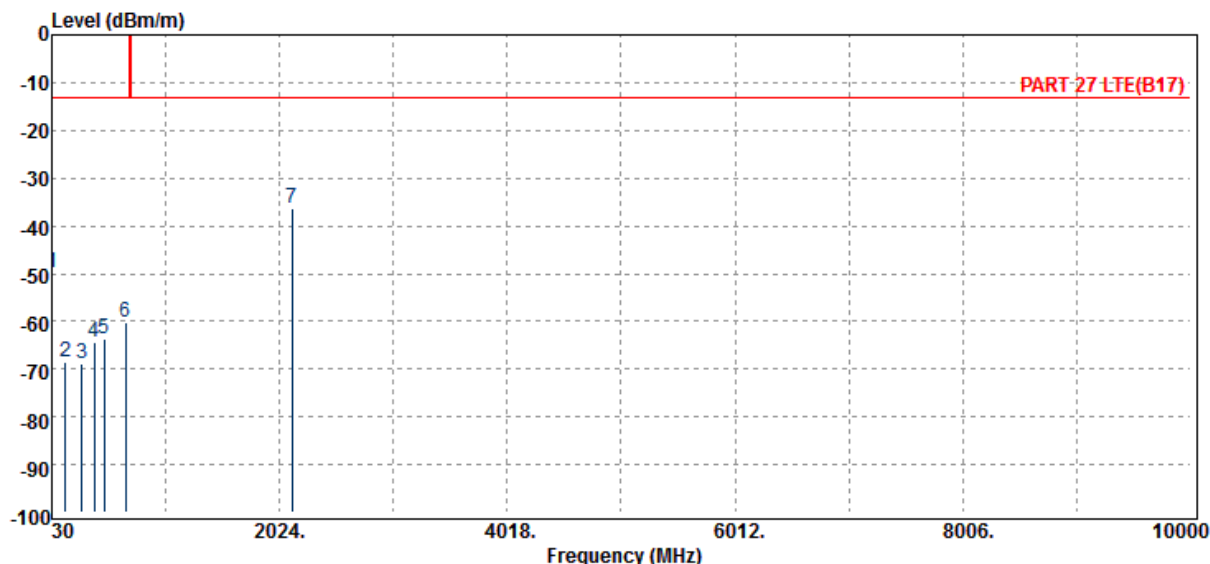
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-53.87	-23.49	-30.05	-0.45	0.13	-13.00	-40.87
153.19	-68.46	-60.67	-6.89	-1.02	0.12	-13.00	-55.46
294.81	-69.24	-65.77	-2.15	-1.42	0.10	-13.00	-56.24
372.41	-64.77	-61.70	-1.70	-1.60	0.23	-13.00	-51.77
493.66	-62.98	-59.18	-2.10	-1.86	0.15	-13.00	-49.98
692.51	-60.51	-57.85	-1.35	-2.22	0.90	-13.00	-47.51
2127.00	-44.67	-51.30	9.58	-4.11	1.16	-13.00	-31.67

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Operation Band	:LTE B17	Test Date	:2019-03-28
Fundamental Frequency	:710 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH MID	Engineer	:Kane
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-49.75	-19.38	-30.05	-0.45	0.13	-13.00	-36.75
151.25	-68.48	-60.54	-7.05	-1.01	0.12	-13.00	-55.48
296.75	-68.85	-65.44	-2.08	-1.42	0.10	-13.00	-55.85
403.45	-64.52	-61.40	-1.72	-1.67	0.27	-13.00	-51.52
488.81	-63.62	-59.67	-2.27	-1.84	0.16	-13.00	-50.62
673.11	-60.31	-57.50	-1.39	-2.19	0.77	-13.00	-47.31
2130.00	-36.25	-42.83	9.56	-4.12	1.13	-13.00	-23.25

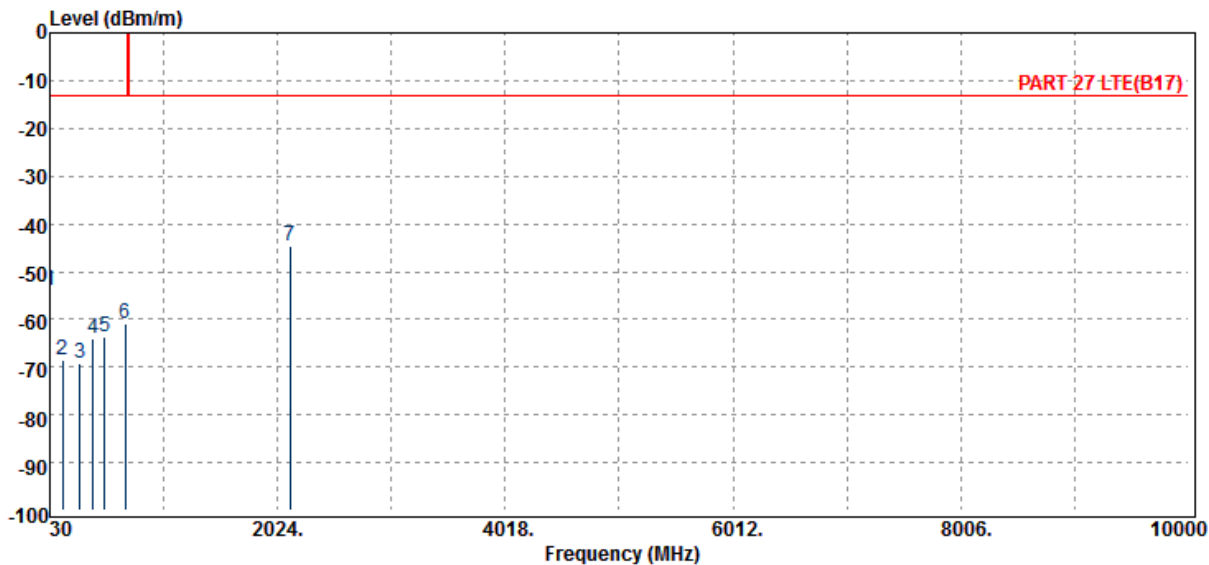
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Operation Band :LTE B17
Fundamental Frequency :710 MHz
Operation Mode :Tx CH MID
EUT Pol. :E1 Plane

Test Date :2019-03-28
Temp./Humi. :22 deg_C / 61 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



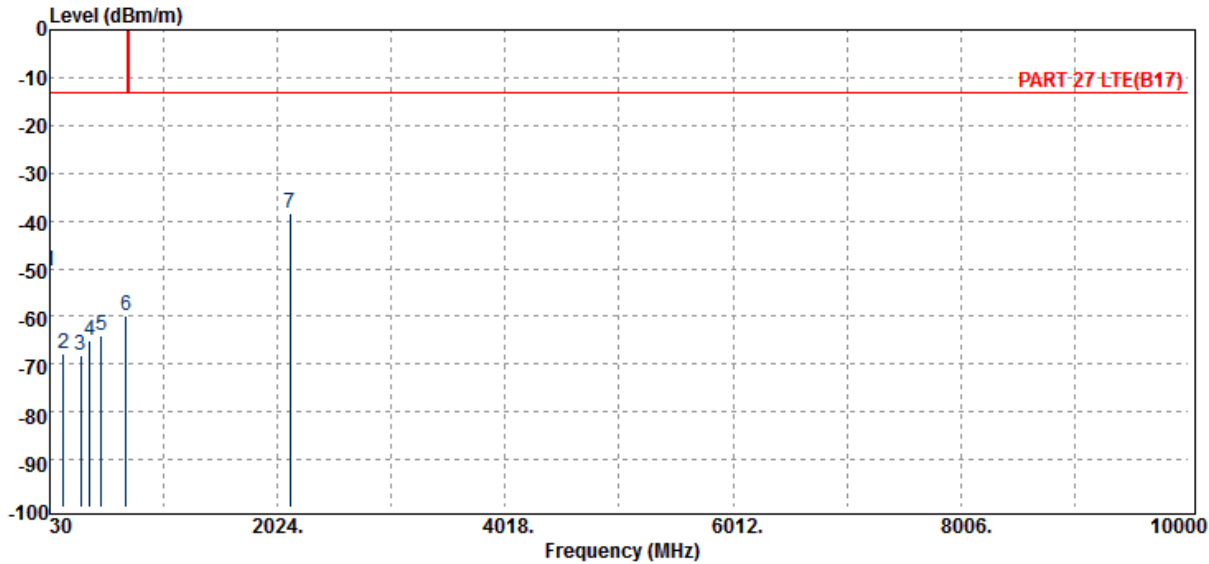
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-54.07	-23.70	-30.05	-0.45	0.13	-13.00	-41.07
144.46	-68.46	-59.84	-7.75	-0.99	0.12	-13.00	-55.46
293.84	-69.30	-65.84	-2.15	-1.42	0.10	-13.00	-56.30
411.21	-63.91	-60.72	-1.77	-1.68	0.26	-13.00	-50.91
507.24	-63.62	-60.12	-1.76	-1.89	0.15	-13.00	-50.62
691.54	-60.80	-58.13	-1.35	-2.22	0.90	-13.00	-47.80
2130.00	-44.50	-51.07	9.56	-4.12	1.13	-13.00	-31.50

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Operation Band	:LTE B17	Test Date	:2019-03-28
Fundamental Frequency	:711 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH HIGH	Engineer	:Kane
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



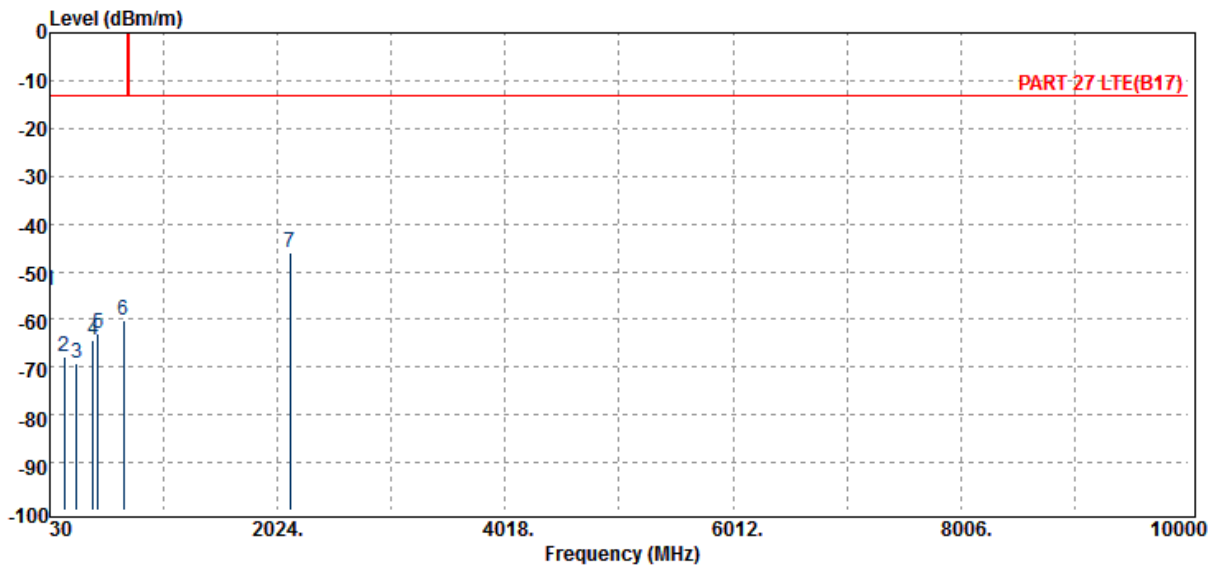
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-50.46	-20.09	-30.05	-0.45	0.13	-13.00	-37.46
151.25	-67.89	-59.95	-7.05	-1.01	0.12	-13.00	-54.89
298.69	-68.22	-64.89	-2.00	-1.43	0.10	-13.00	-55.22
376.29	-64.97	-61.98	-1.62	-1.61	0.24	-13.00	-51.97
478.14	-63.90	-59.84	-2.41	-1.82	0.17	-13.00	-50.90
697.36	-59.80	-57.11	-1.40	-2.22	0.94	-13.00	-46.80
2133.00	-38.33	-44.89	9.53	-4.12	1.14	-13.00	-25.33

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Operation Band	:LTE B17	Test Date	:2019-03-28
Fundamental Frequency	:711 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH HIGH	Engineer	:Kane
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-54.10	-23.73	-30.05	-0.45	0.13	-13.00	-41.10
156.10	-67.70	-60.15	-6.64	-1.03	0.12	-13.00	-54.70
267.65	-69.30	-65.60	-2.46	-1.35	0.10	-13.00	-56.30
406.36	-64.36	-61.21	-1.75	-1.67	0.27	-13.00	-51.36
454.86	-63.02	-59.40	-2.05	-1.77	0.20	-13.00	-50.02
675.05	-60.32	-57.56	-1.35	-2.19	0.78	-13.00	-47.32
2133.00	-45.90	-52.45	9.53	-4.12	1.14	-13.00	-32.90

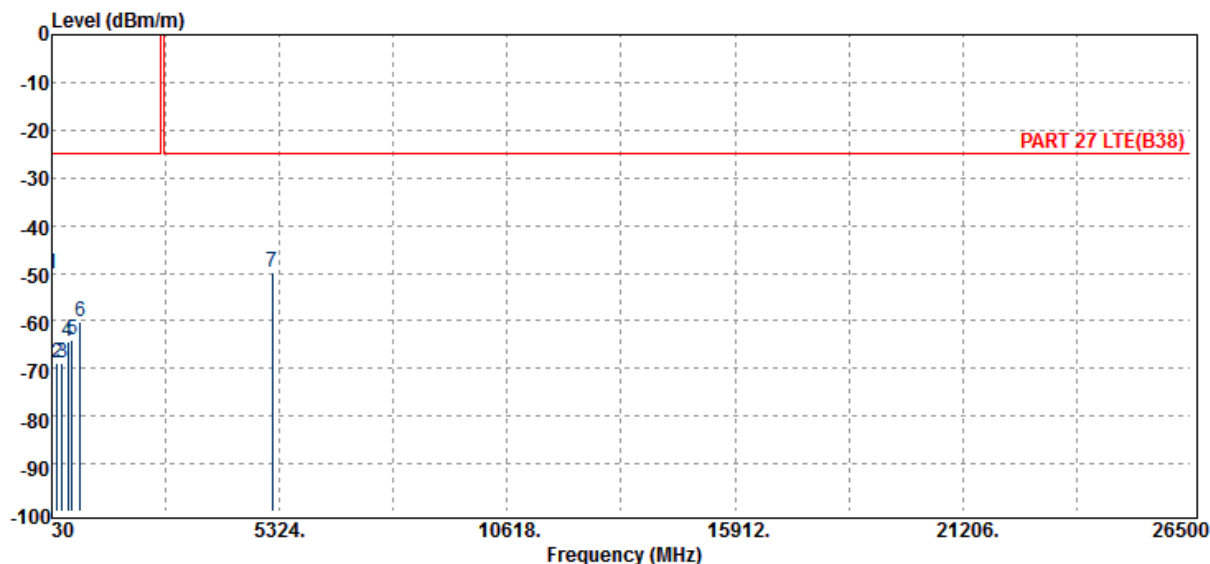
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Radiated Spurious Emission Measurement Result: LTE-Band 38 (The Worst Case)

Operation Band	:LTE B38	Test Date	:2019-03-28
Fundamental Frequency	:2575 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH LOW	Engineer	:Kane
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



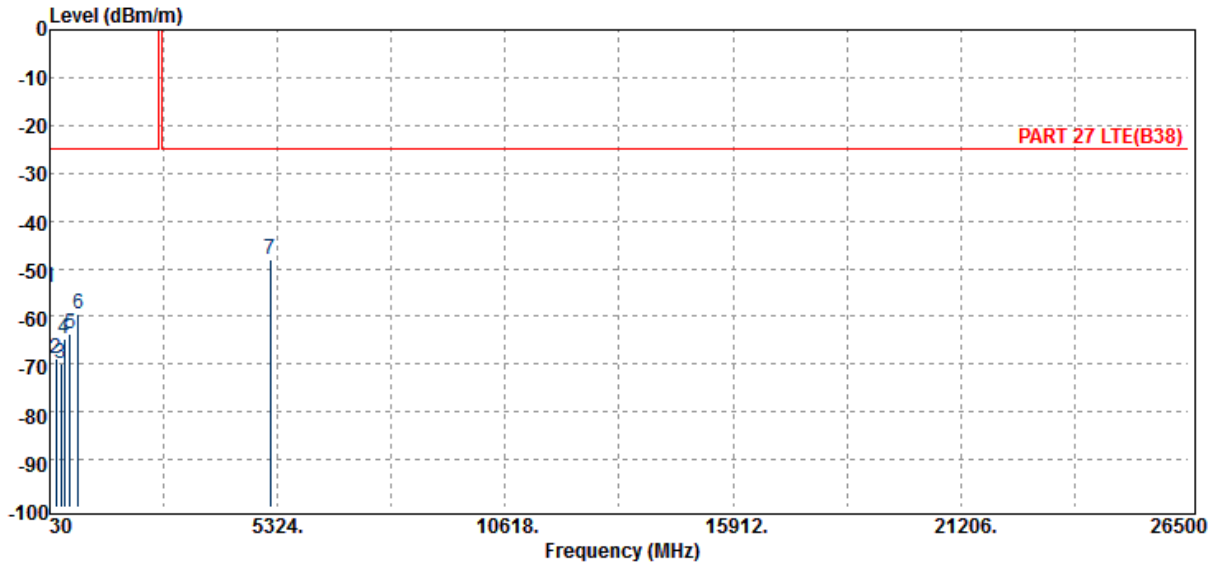
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-50.19	-19.72	-30.05	-0.45	0.03	-25.00	-25.19
148.34	-68.88	-60.65	-7.31	-1.00	0.09	-25.00	-43.88
277.35	-68.72	-64.88	-2.60	-1.38	0.15	-25.00	-43.72
395.69	-64.31	-61.20	-1.56	-1.65	0.11	-25.00	-39.31
500.45	-63.85	-60.08	-1.94	-1.87	0.04	-25.00	-38.85
691.54	-60.32	-56.99	-1.35	-2.22	0.24	-25.00	-35.32
5150.00	-49.94	-56.53	12.70	-6.77	0.67	-25.00	-24.94

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Operation Band	:LTE B38	Test Date	:2019-03-28
Fundamental Frequency	:2575 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH LOW	Engineer	:Kane
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



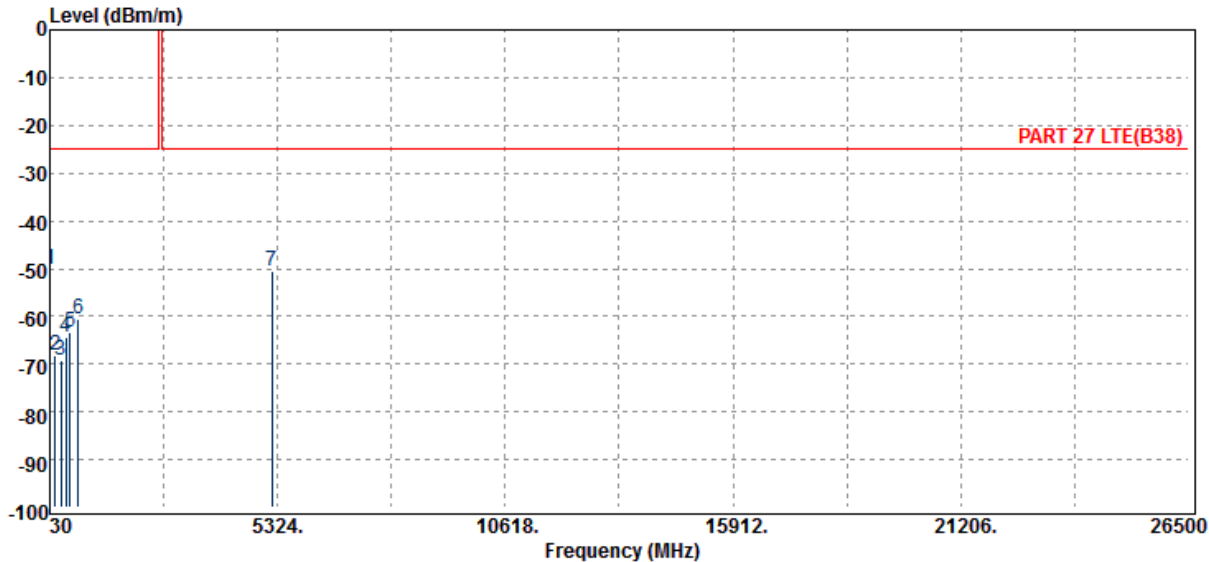
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-53.94	-23.47	-30.05	-0.45	0.03	-25.00	-28.94
167.74	-68.71	-62.10	-5.63	-1.07	0.08	-25.00	-43.71
291.90	-69.76	-66.32	-2.15	-1.41	0.12	-25.00	-44.76
367.56	-64.59	-61.33	-1.75	-1.59	0.08	-25.00	-39.59
508.21	-63.50	-59.89	-1.72	-1.89	0.00	-25.00	-38.50
697.36	-59.50	-56.10	-1.40	-2.22	0.21	-25.00	-34.50
5150.00	-48.09	-54.69	12.70	-6.77	0.67	-25.00	-23.09

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Operation Band	:LTE B38	Test Date	:2019-03-28
Fundamental Frequency	:2595 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH MID	Engineer	:Kane
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



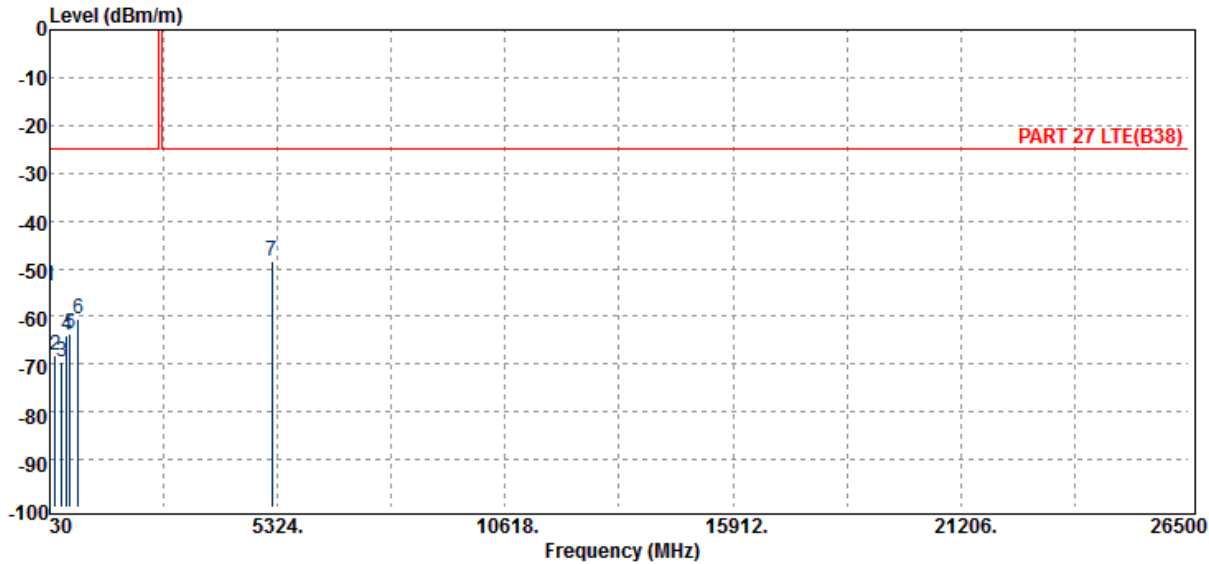
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-50.07	-19.60	-30.05	-0.45	0.03	-25.00	-25.07
156.10	-68.12	-60.54	-6.64	-1.03	0.09	-25.00	-43.12
296.75	-69.33	-65.94	-2.08	-1.42	0.11	-25.00	-44.33
411.21	-64.31	-61.01	-1.77	-1.68	0.16	-25.00	-39.31
500.45	-63.27	-59.50	-1.94	-1.87	0.04	-25.00	-38.27
692.51	-60.59	-57.26	-1.35	-2.22	0.24	-25.00	-35.59
5190.00	-50.53	-57.42	12.94	-6.66	0.62	-25.00	-25.53

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Operation Band	:LTE B38	Test Date	:2019-03-28
Fundamental Frequency	:2595 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH MID	Engineer	:Kane
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



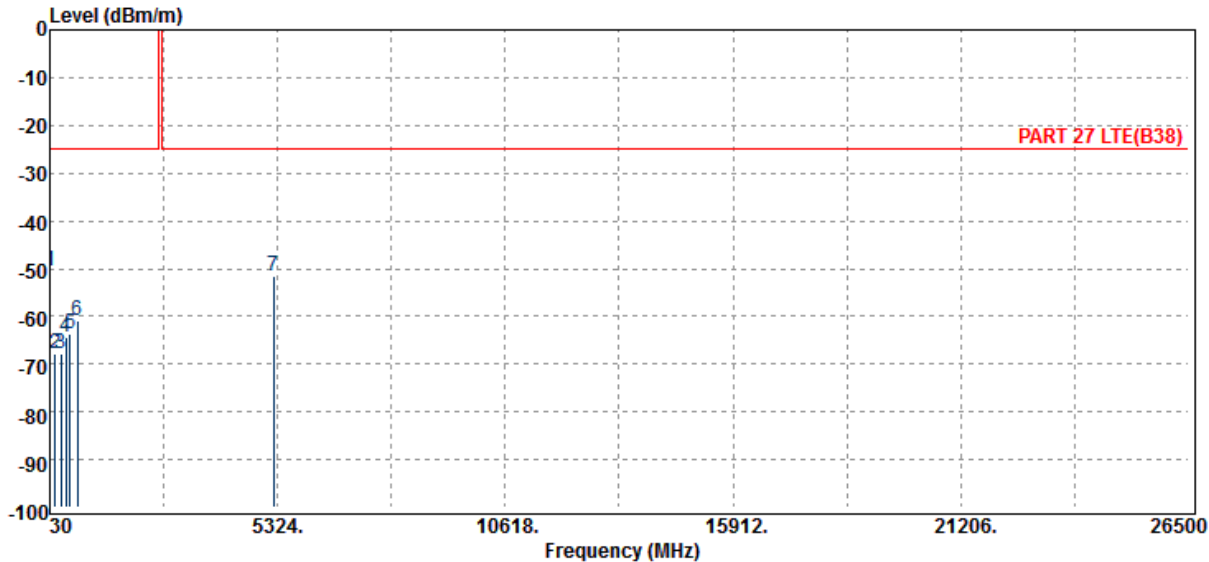
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-53.54	-23.06	-30.05	-0.45	0.03	-25.00	-28.54
151.25	-68.08	-60.11	-7.05	-1.01	0.09	-25.00	-43.08
298.69	-69.65	-66.32	-2.00	-1.43	0.11	-25.00	-44.65
415.09	-64.00	-60.64	-1.85	-1.69	0.17	-25.00	-39.00
505.30	-63.56	-59.85	-1.84	-1.88	0.01	-25.00	-38.56
694.45	-60.60	-57.26	-1.35	-2.22	0.23	-25.00	-35.60
5190.00	-48.56	-55.45	12.94	-6.66	0.62	-25.00	-23.56

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Operation Band	:LTE B38	Test Date	:2019-03-28
Fundamental Frequency	:2615 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH HIGH	Engineer	:Kane
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



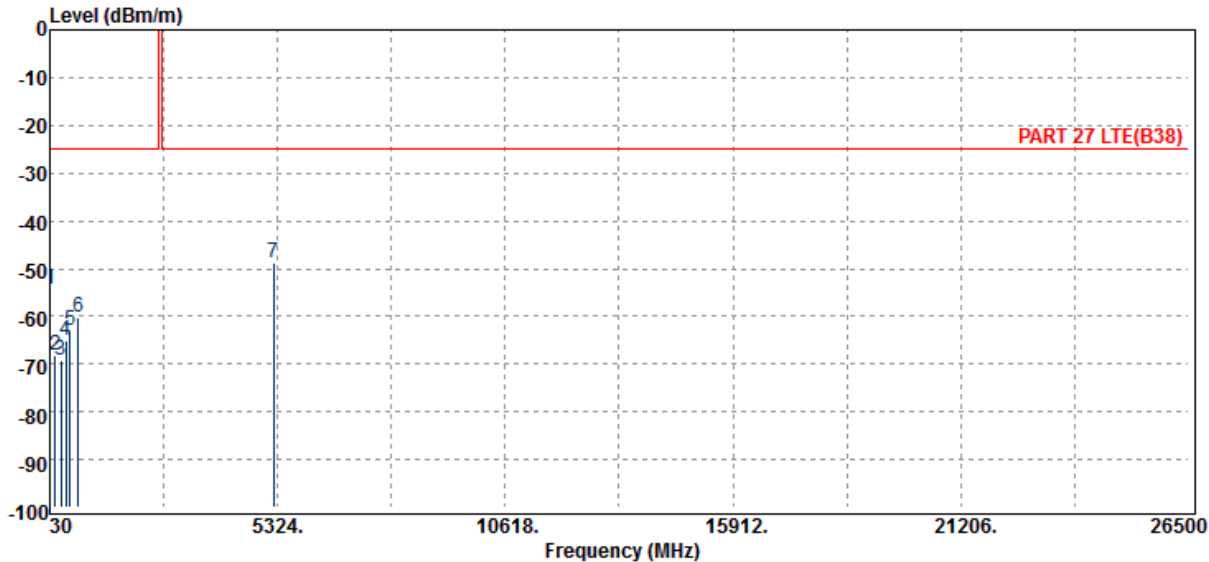
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-50.60	-20.13	-30.05	-0.45	0.03	-25.00	-25.60
146.40	-67.91	-59.50	-7.51	-1.00	0.09	-25.00	-42.91
289.96	-67.79	-64.35	-2.15	-1.41	0.12	-25.00	-42.79
398.60	-64.39	-61.23	-1.62	-1.66	0.12	-25.00	-39.39
500.45	-63.71	-59.93	-1.94	-1.87	0.04	-25.00	-38.71
673.11	-61.04	-57.77	-1.39	-2.19	0.30	-25.00	-36.04
5230.00	-51.45	-58.45	13.12	-6.79	0.67	-25.00	-26.45

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Operation Band	:LTE B38	Test Date	:2019-03-28
Fundamental Frequency	:2615 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH HIGH	Engineer	:Kane
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-54.46	-23.99	-30.05	-0.45	0.03	-25.00	-29.46
149.31	-68.03	-59.90	-7.22	-1.00	0.09	-25.00	-43.03
279.29	-69.22	-65.42	-2.56	-1.38	0.14	-25.00	-44.22
411.21	-65.00	-61.70	-1.77	-1.68	0.16	-25.00	-40.00
500.45	-62.87	-59.09	-1.94	-1.87	0.04	-25.00	-37.87
691.54	-60.22	-56.90	-1.35	-2.22	0.24	-25.00	-35.22
5230.00	-48.91	-55.91	13.12	-6.79	0.67	-25.00	-23.91

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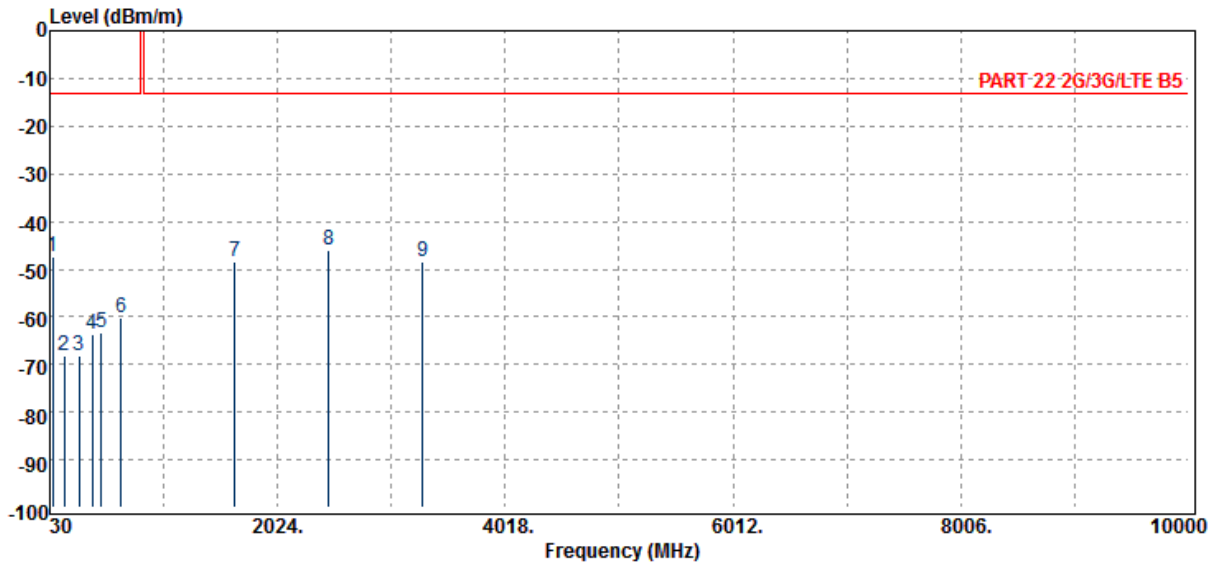
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9.6. Measurement Result (Wireless Charging Mode):

Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Band	:GSM 850	Test Date	:2019-03-28
Fundamental Frequency	:824.2 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH LOW	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



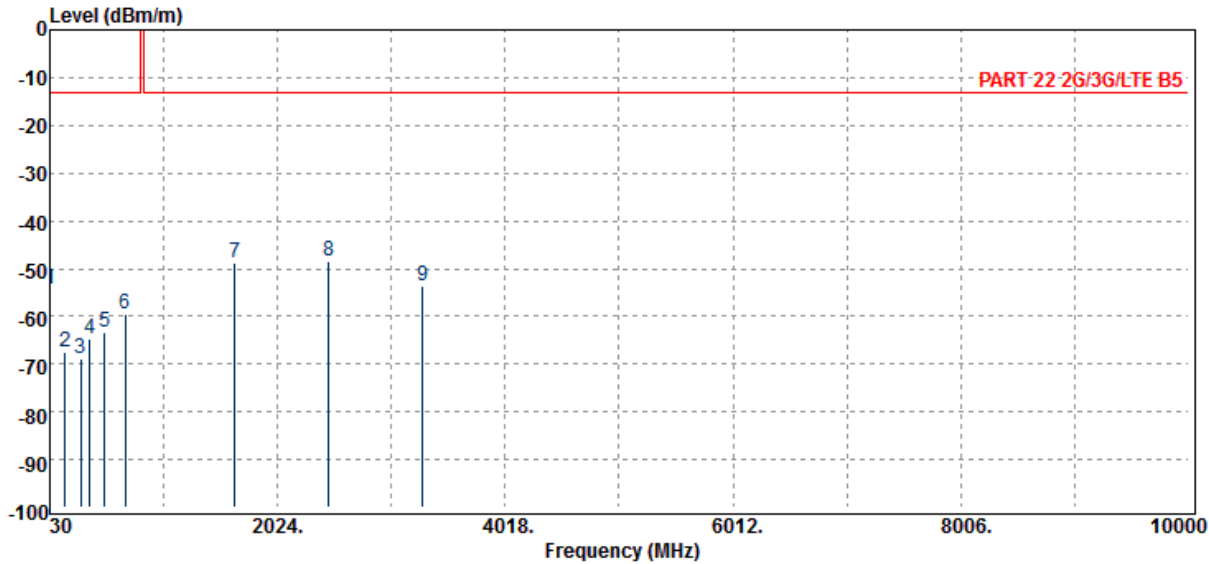
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
56.19	-47.30	-36.30	-10.50	-0.63	0.13	-13.00	-34.30
158.04	-68.14	-60.78	-6.44	-1.04	0.12	-13.00	-55.14
287.05	-68.07	-64.44	-2.33	-1.40	0.10	-13.00	-55.07
400.54	-63.72	-60.67	-1.66	-1.66	0.27	-13.00	-50.72
483.96	-63.21	-59.17	-2.37	-1.83	0.17	-13.00	-50.21
652.74	-60.32	-57.14	-1.65	-2.15	0.62	-13.00	-47.32
1648.40	-48.42	-54.98	9.70	-3.55	0.41	-13.00	-35.42
2472.60	-45.85	-52.46	10.69	-4.46	0.38	-13.00	-32.85
3296.80	-48.40	-55.80	12.57	-5.35	0.17	-13.00	-35.40

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Operation Band	:GSM 850	Test Date	:2019-03-28
Fundamental Frequency	:824.2 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH LOW	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



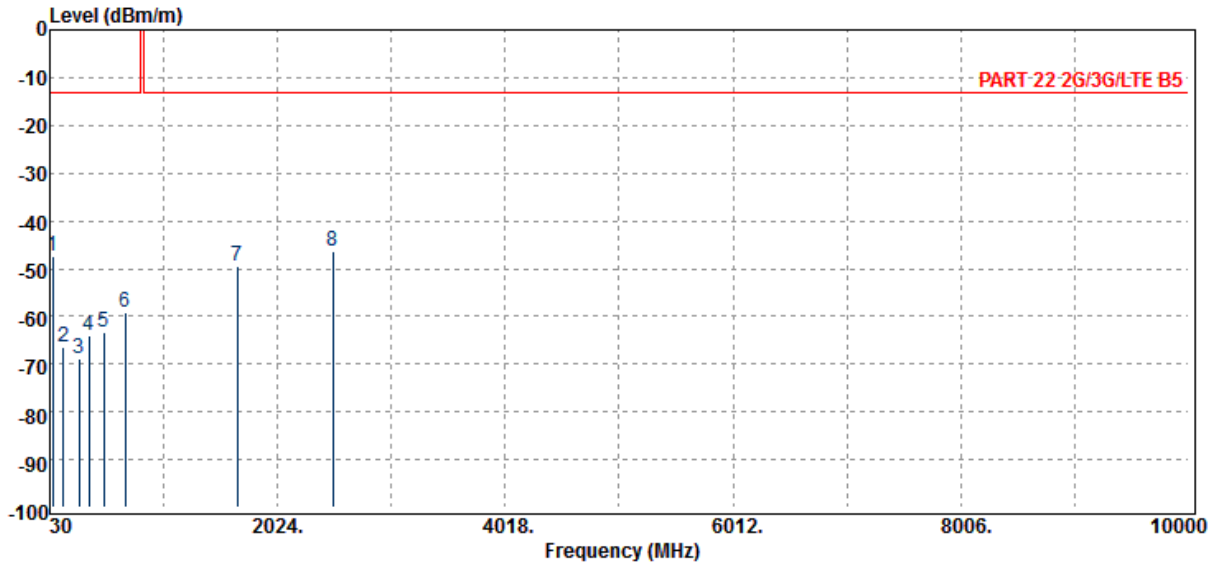
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-54.43	-24.06	-30.05	-0.45	0.13	-13.00	-41.43
160.95	-67.53	-60.44	-6.17	-1.05	0.12	-13.00	-54.53
298.69	-68.96	-65.62	-2.00	-1.43	0.10	-13.00	-55.96
381.14	-64.56	-61.66	-1.53	-1.62	0.24	-13.00	-51.56
512.09	-63.31	-60.00	-1.57	-1.90	0.16	-13.00	-50.31
687.66	-59.60	-56.91	-1.35	-2.21	0.87	-13.00	-46.60
1648.40	-48.82	-55.38	9.70	-3.55	0.41	-13.00	-35.82
2472.60	-48.52	-55.13	10.69	-4.46	0.38	-13.00	-35.52
3296.80	-53.60	-60.99	12.57	-5.35	0.17	-13.00	-40.60

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Operation Band	:GSM 850	Test Date	:2019-03-28
Fundamental Frequency	:836.6 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH MID	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	ERP/EIRP	SG	Antenna	Cable	Filter	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBd/dBi	Loss dB	dB	dBm	dB
56.19	-47.53	-36.54	-10.50	-0.63	0.13	-13.00	-34.53
151.25	-66.60	-58.66	-7.05	-1.01	0.12	-13.00	-53.60
287.05	-68.82	-65.20	-2.33	-1.40	0.10	-13.00	-55.82
369.50	-64.07	-60.95	-1.75	-1.59	0.23	-13.00	-51.07
502.39	-63.37	-59.74	-1.90	-1.88	0.15	-13.00	-50.37
692.51	-59.22	-56.55	-1.35	-2.22	0.90	-13.00	-46.22
1673.20	-49.55	-56.22	9.84	-3.58	0.42	-13.00	-36.55
2509.80	-46.45	-53.03	10.80	-4.59	0.37	-13.00	-33.45

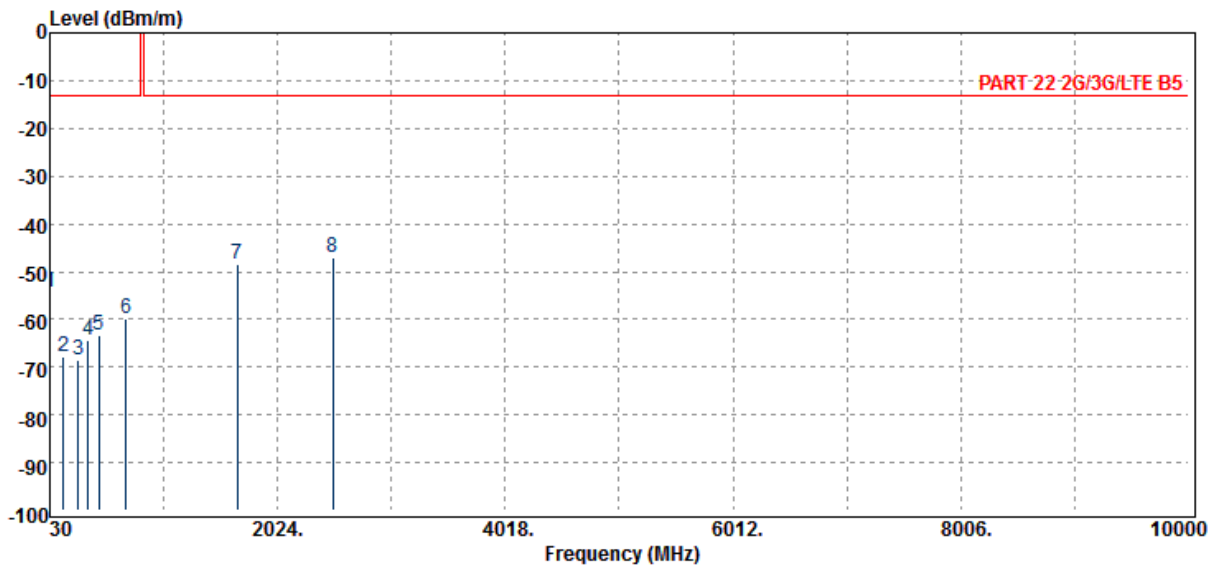
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Operation Band :GSM 850
Fundamental Frequency :836.6 MHz
Operation Mode :Tx CH MID
EUT Pol. :E2 Plane

Test Date :2019-03-28
Temp./Humi. :22 deg_C / 61 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



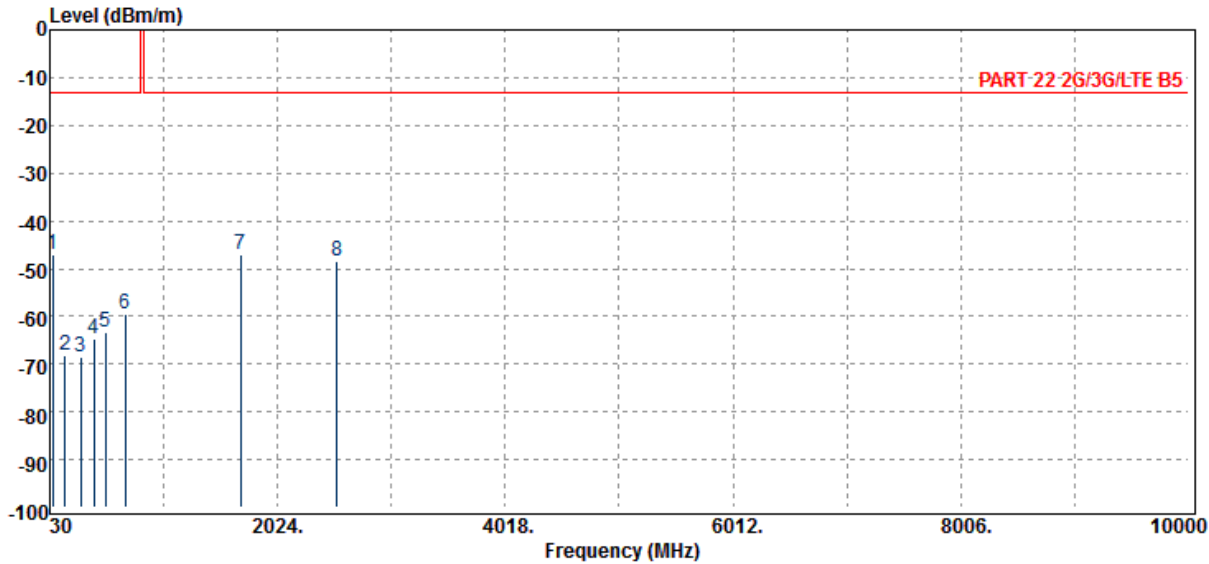
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-54.49	-24.12	-30.05	-0.45	0.13	-13.00	-41.49
149.31	-67.81	-59.71	-7.22	-1.00	0.12	-13.00	-54.81
282.20	-68.36	-64.56	-2.51	-1.39	0.10	-13.00	-55.36
362.71	-64.51	-61.35	-1.80	-1.58	0.21	-13.00	-51.51
458.74	-63.32	-59.69	-2.05	-1.78	0.20	-13.00	-50.32
696.39	-59.89	-57.22	-1.38	-2.22	0.93	-13.00	-46.89
1673.20	-48.30	-54.98	9.84	-3.58	0.42	-13.00	-35.30
2509.80	-47.08	-53.66	10.80	-4.59	0.37	-13.00	-34.08

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Operation Band	:GSM 850	Test Date	:2019-03-28
Fundamental Frequency	:848.8 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH HIGH	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



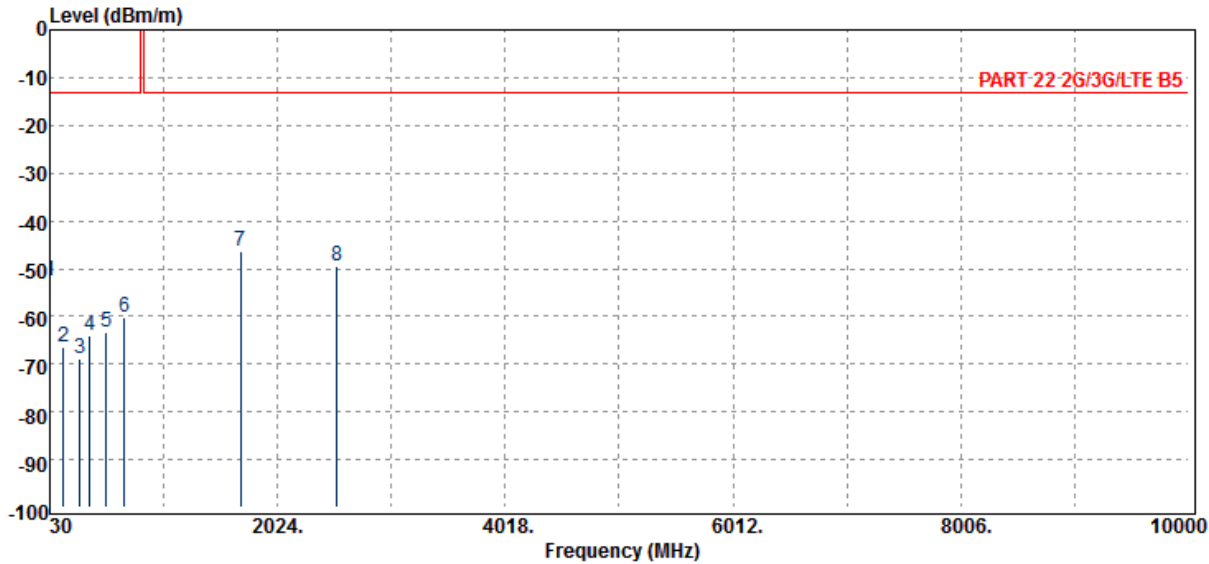
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
56.19	-46.91	-35.92	-10.50	-0.63	0.13	-13.00	-33.91
163.86	-68.16	-61.28	-5.94	-1.05	0.12	-13.00	-55.16
298.69	-68.45	-65.12	-2.00	-1.43	0.10	-13.00	-55.45
413.15	-64.87	-61.62	-1.81	-1.69	0.26	-13.00	-51.87
516.94	-63.40	-60.20	-1.45	-1.90	0.16	-13.00	-50.40
692.51	-59.52	-56.86	-1.35	-2.22	0.90	-13.00	-46.52
1697.60	-47.05	-53.87	9.99	-3.60	0.43	-13.00	-34.05
2546.40	-48.50	-55.06	10.80	-4.59	0.35	-13.00	-35.50

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Operation Band	:GSM 850	Test Date	:2019-03-28
Fundamental Frequency	:848.8 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH HIGH	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-52.65	-22.28	-30.05	-0.45	0.13	-13.00	-39.65
146.40	-66.33	-57.95	-7.51	-1.00	0.12	-13.00	-53.33
289.96	-68.95	-65.49	-2.15	-1.41	0.10	-13.00	-55.95
376.29	-63.88	-60.88	-1.62	-1.61	0.24	-13.00	-50.88
527.61	-63.44	-60.34	-1.35	-1.92	0.17	-13.00	-50.44
682.81	-60.33	-57.66	-1.31	-2.20	0.84	-13.00	-47.33
1697.60	-46.32	-53.13	9.99	-3.60	0.43	-13.00	-33.32
2546.40	-49.47	-56.03	10.80	-4.59	0.35	-13.00	-36.47

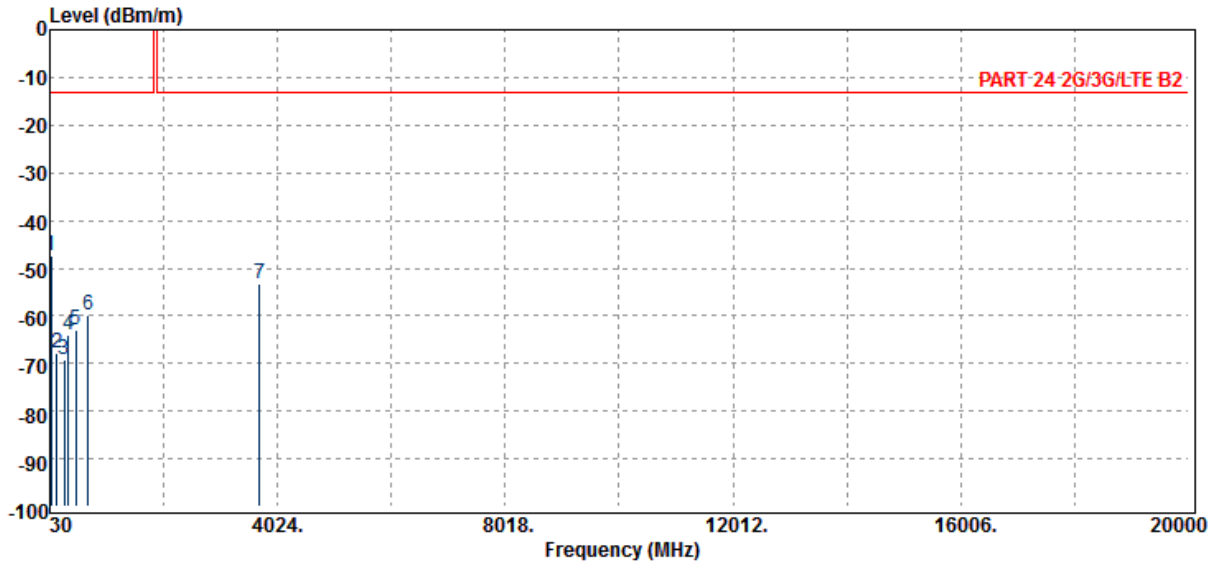
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Radiated Spurious Emission Measurement Result: GSM 1900 Mode

Operation Band	:GSM 1900	Test Date	:2019-03-28
Fundamental Frequency	:1850.2 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH LOW	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
56.19	-47.52	-36.42	-10.50	-0.63	0.03	-13.00	-34.52
146.40	-67.81	-59.35	-7.51	-1.00	0.04	-13.00	-54.81
289.96	-69.11	-65.58	-2.15	-1.41	0.03	-13.00	-56.11
357.86	-63.95	-60.63	-1.81	-1.57	0.05	-13.00	-50.95
488.81	-62.98	-59.07	-2.27	-1.84	0.20	-13.00	-49.98
696.39	-59.77	-56.48	-1.38	-2.22	0.31	-13.00	-46.77
3700.40	-53.38	-60.29	12.50	-5.72	0.13	-13.00	-40.38

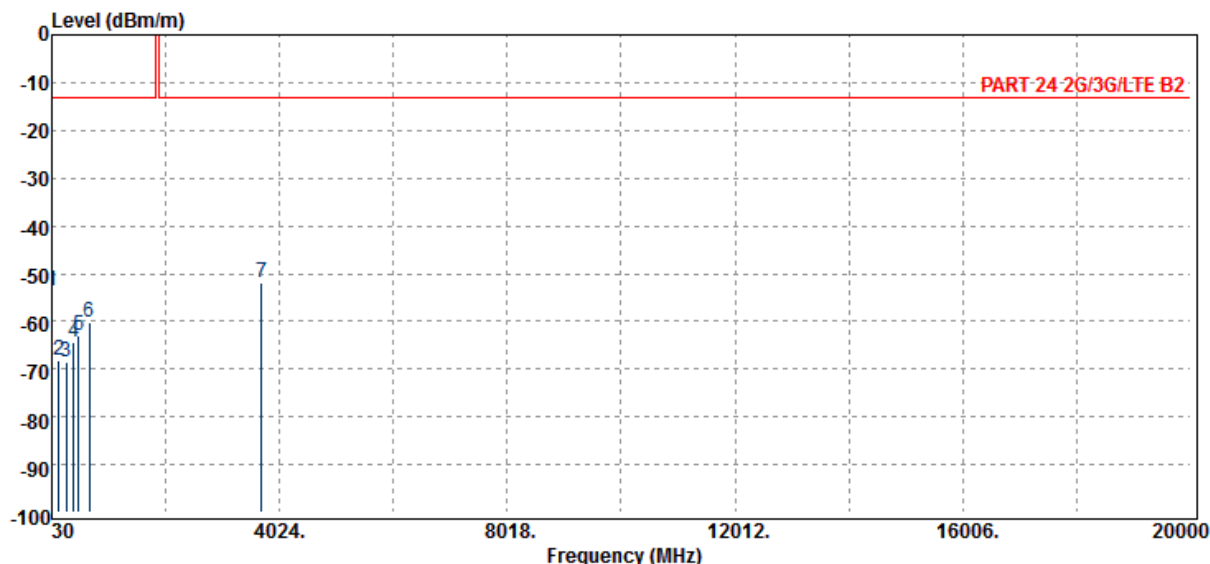
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Operation Band :GSM 1900
Fundamental Frequency :1850.2 MHz
Operation Mode :Tx CH LOW
EUT Pol. :E2 Plane

Test Date :2019-03-28
Temp./Humi. :22 deg_C / 61 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-53.80	-23.33	-30.05	-0.45	0.04	-13.00	-40.80
156.10	-68.24	-60.62	-6.64	-1.03	0.04	-13.00	-55.24
287.05	-68.40	-64.70	-2.33	-1.40	0.03	-13.00	-55.40
406.36	-64.48	-61.14	-1.75	-1.67	0.08	-13.00	-51.48
492.69	-62.81	-59.03	-2.14	-1.85	0.21	-13.00	-49.81
681.84	-60.34	-57.15	-1.29	-2.20	0.29	-13.00	-47.34
3700.40	-51.80	-58.72	12.50	-5.72	0.13	-13.00	-38.80

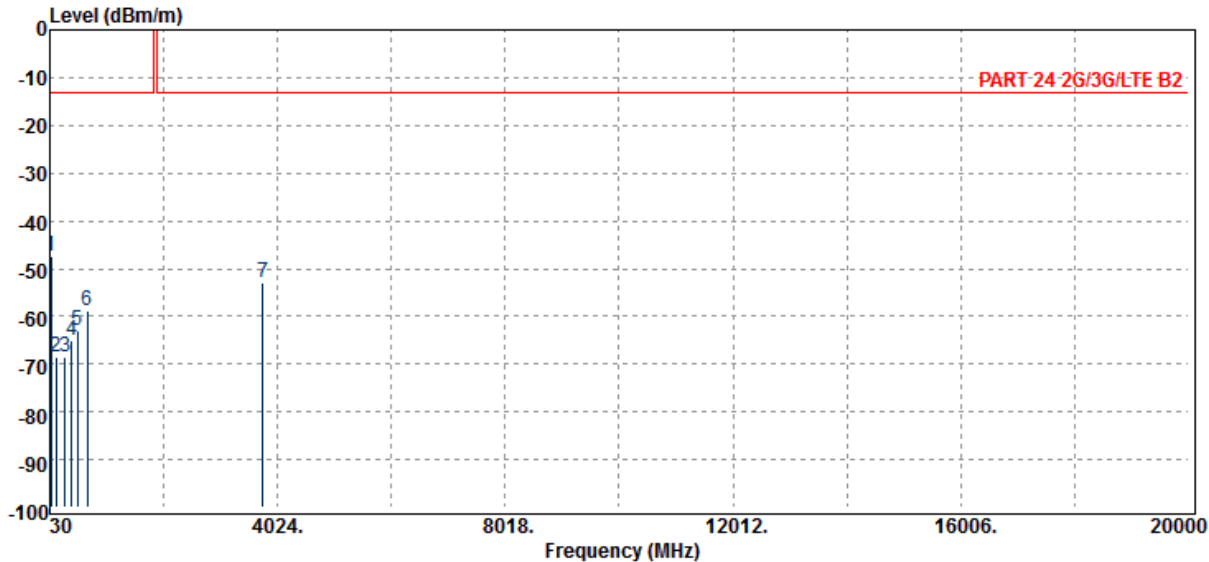
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Operation Band :GSM 1900
Fundamental Frequency :1880 MHz
Operation Mode :Tx CH MID
EUT Pol. :E2 Plane

Test Date :2019-03-28
Temp./Humi. :22 deg_C / 61 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
54.25	-47.44	-36.10	-10.75	-0.62	0.03	-13.00	-34.44
143.49	-68.45	-59.59	-7.92	-0.99	0.04	-13.00	-55.45
296.75	-68.55	-65.08	-2.08	-1.42	0.03	-13.00	-55.55
416.06	-65.08	-61.63	-1.85	-1.69	0.09	-13.00	-52.08
516.94	-63.07	-59.93	-1.45	-1.90	0.21	-13.00	-50.07
684.75	-58.94	-55.69	-1.35	-2.21	0.30	-13.00	-45.94
3760.00	-53.11	-59.96	12.42	-5.69	0.12	-13.00	-40.11

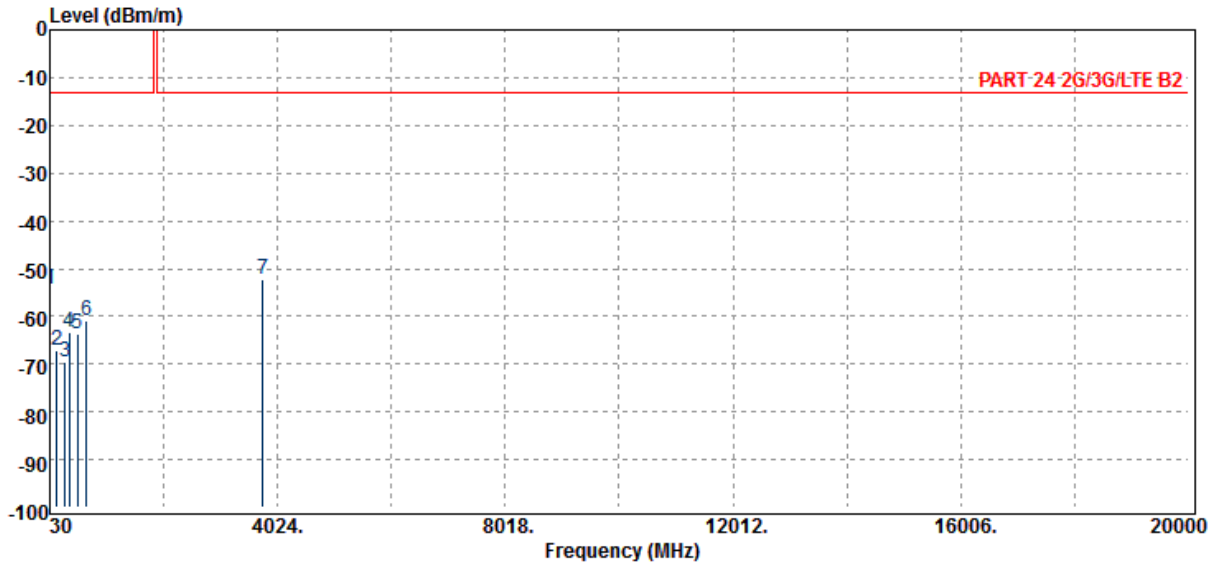
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Operation Band :GSM 1900
Fundamental Frequency :1880 MHz
Operation Mode :Tx CH MID
EUT Pol. :E2 Plane

Test Date :2019-03-28
Temp./Humi. :22 deg_C / 61 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



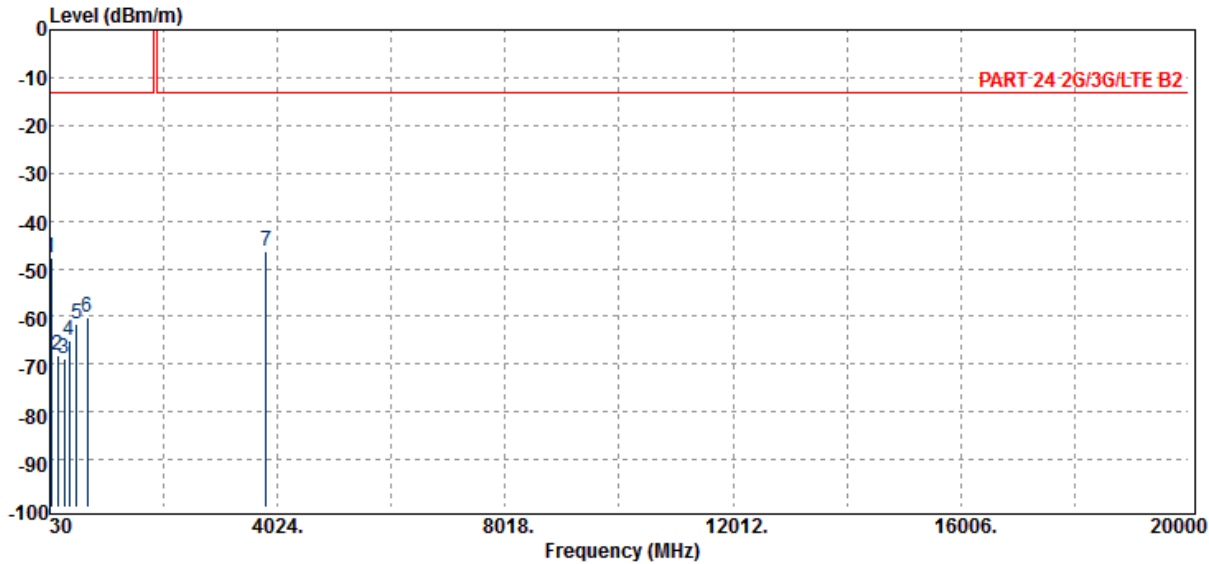
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-54.30	-23.83	-30.05	-0.45	0.04	-13.00	-41.30
156.10	-67.06	-59.43	-6.64	-1.03	0.04	-13.00	-54.06
298.69	-69.51	-66.11	-2.00	-1.43	0.03	-13.00	-56.51
371.44	-63.37	-60.11	-1.72	-1.60	0.06	-13.00	-50.37
507.24	-63.82	-60.39	-1.76	-1.89	0.22	-13.00	-50.82
675.05	-60.73	-57.47	-1.35	-2.19	0.28	-13.00	-47.73
3760.00	-52.35	-59.20	12.42	-5.69	0.12	-13.00	-39.35

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Operation Band	:GSM 1900	Test Date	:2019-03-28
Fundamental Frequency	:1909.8 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH HIGH	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



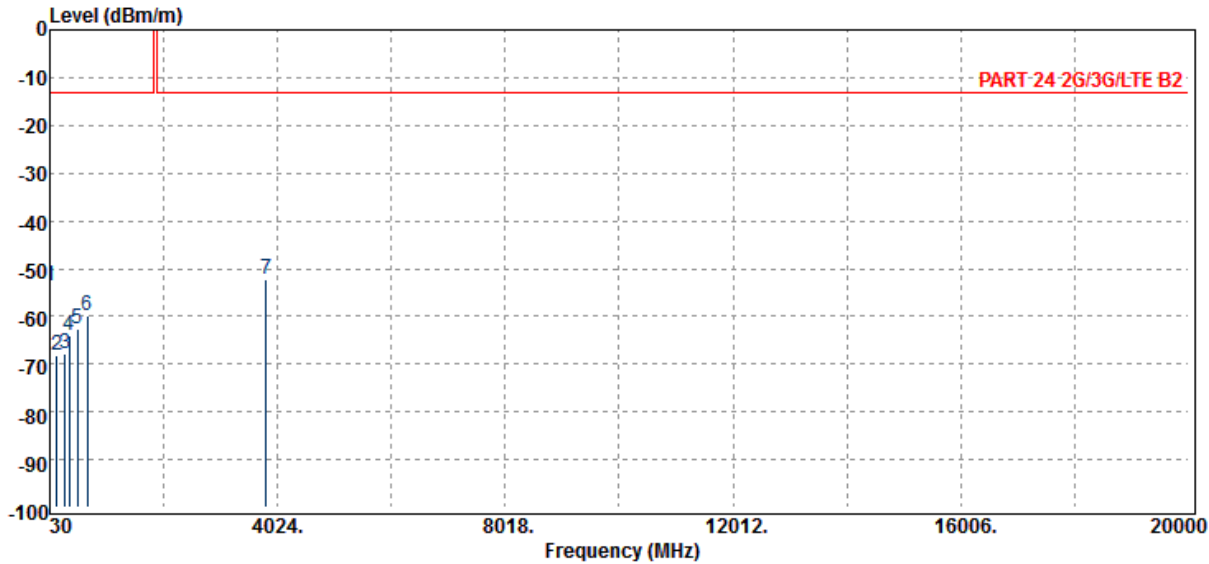
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
56.19	-47.70	-36.60	-10.50	-0.63	0.03	-13.00	-34.70
163.86	-68.11	-61.16	-5.94	-1.05	0.05	-13.00	-55.11
279.29	-68.97	-65.06	-2.56	-1.38	0.03	-13.00	-55.97
366.59	-64.95	-61.67	-1.75	-1.59	0.06	-13.00	-51.95
495.60	-61.72	-58.03	-2.04	-1.86	0.21	-13.00	-48.72
682.81	-60.34	-57.12	-1.31	-2.20	0.29	-13.00	-47.34
3819.60	-46.26	-53.08	12.46	-5.76	0.12	-13.00	-33.26

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Operation Band	:GSM 1900	Test Date	:2019-03-28
Fundamental Frequency	:1909.8 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH HIGH	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-53.55	-23.08	-30.05	-0.45	0.04	-13.00	-40.55
151.25	-68.09	-60.07	-7.05	-1.01	0.04	-13.00	-55.09
299.66	-67.84	-64.47	-1.96	-1.43	0.03	-13.00	-54.84
371.44	-64.05	-60.79	-1.72	-1.60	0.06	-13.00	-51.05
512.09	-62.51	-59.26	-1.57	-1.90	0.21	-13.00	-49.51
692.51	-59.96	-56.70	-1.35	-2.22	0.31	-13.00	-46.96
3819.60	-52.22	-59.04	12.46	-5.76	0.12	-13.00	-39.22

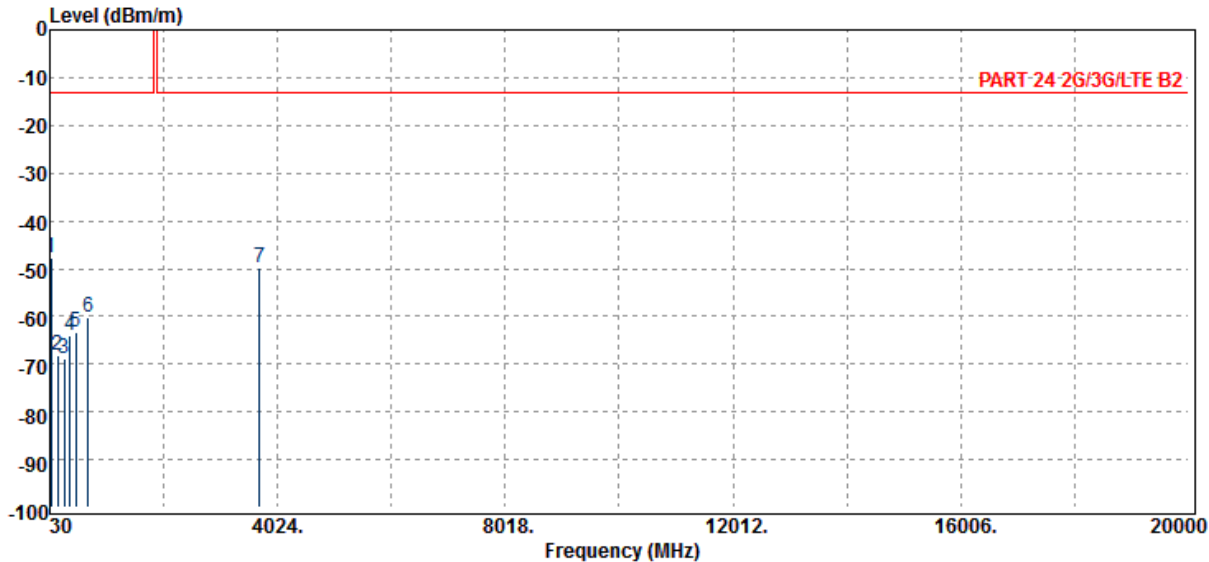
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Radiated Spurious Emission Measurement Result: WCDMA Band 2 Mode

Operation Band	:WCDMA B2	Test Date	:2019-03-28
Fundamental Frequency	:1852.4 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH LOW	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
54.25	-47.60	-36.25	-10.75	-0.62	0.03	-13.00	-34.60
168.71	-68.19	-61.62	-5.55	-1.07	0.05	-13.00	-55.19
277.35	-68.75	-64.80	-2.60	-1.38	0.03	-13.00	-55.75
384.05	-64.14	-61.11	-1.47	-1.62	0.06	-13.00	-51.14
481.05	-63.33	-59.27	-2.43	-1.83	0.19	-13.00	-50.33
696.39	-60.10	-56.80	-1.38	-2.22	0.31	-13.00	-47.10
3704.80	-49.80	-56.70	12.49	-5.72	0.13	-13.00	-36.80

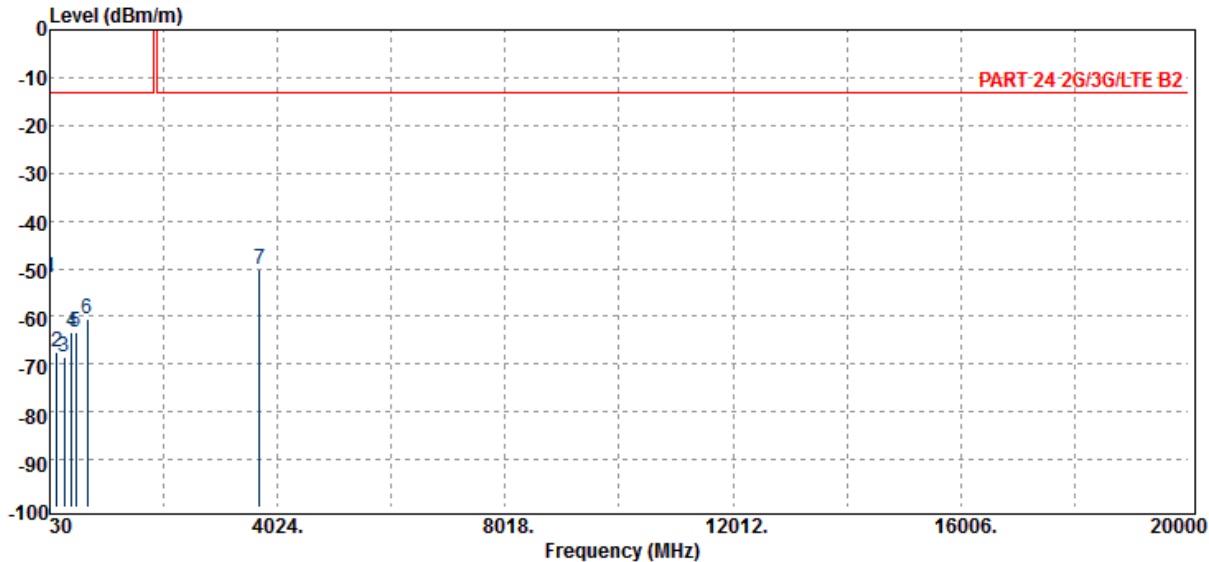
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Operation Band :WCDMA B2
Fundamental Frequency :1852.4 MHz
Operation Mode :Tx CH LOW
EUT Pol. :E2 Plane

Test Date :2019-03-28
Temp./Humi. :22 deg_C / 61 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-51.89	-21.42	-30.05	-0.45	0.04	-13.00	-38.89
146.40	-67.34	-58.87	-7.51	-1.00	0.04	-13.00	-54.34
289.96	-68.60	-65.07	-2.15	-1.41	0.03	-13.00	-55.60
408.30	-63.21	-59.87	-1.75	-1.68	0.08	-13.00	-50.21
487.84	-63.30	-59.37	-2.29	-1.84	0.20	-13.00	-50.30
684.75	-60.48	-57.23	-1.35	-2.21	0.30	-13.00	-47.48
3704.80	-50.11	-57.01	12.49	-5.72	0.13	-13.00	-37.11

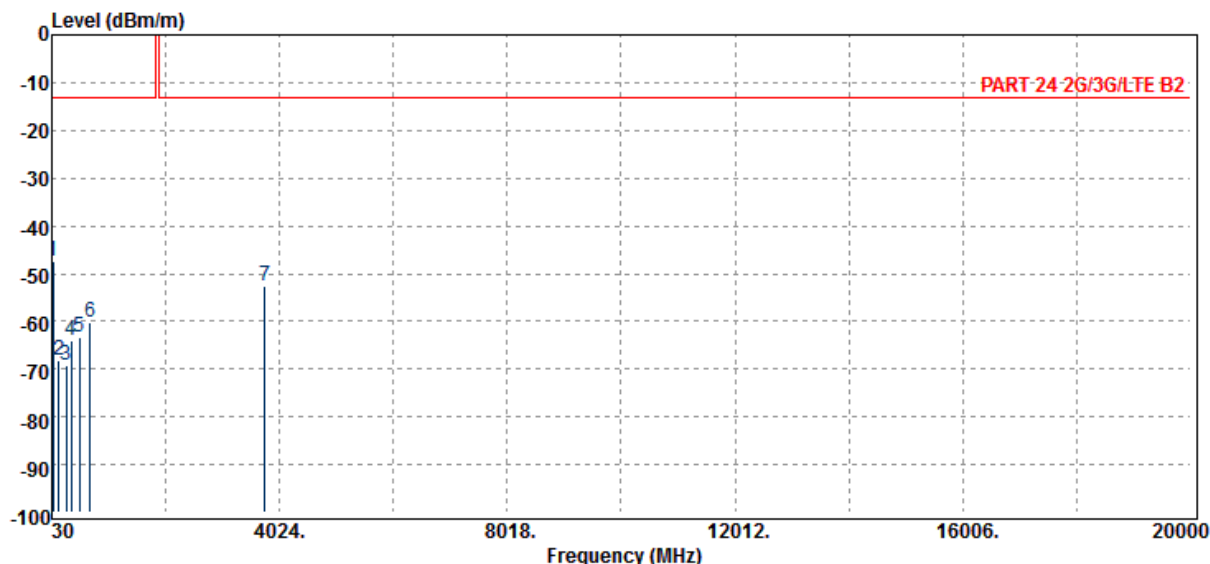
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Operation Band :WCDMA B2
Fundamental Frequency :1880 MHz
Operation Mode :Tx CH MID
EUT Pol. :E2 Plane

Test Date :2019-03-28
Temp./Humi. :22 deg_C / 61 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



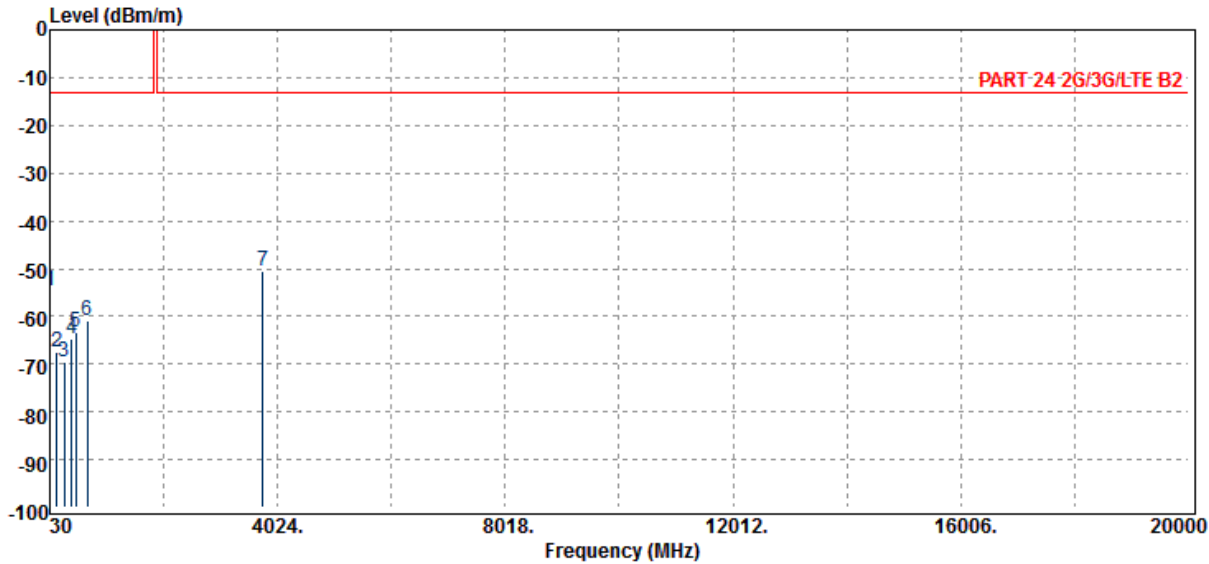
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
54.25	-47.56	-36.22	-10.75	-0.62	0.03	-13.00	-34.56
148.34	-68.13	-59.86	-7.31	-1.00	0.04	-13.00	-55.13
285.11	-69.09	-65.28	-2.44	-1.40	0.03	-13.00	-56.09
362.71	-64.17	-60.85	-1.80	-1.58	0.05	-13.00	-51.17
513.06	-63.42	-60.21	-1.53	-1.90	0.21	-13.00	-50.42
699.30	-60.34	-56.99	-1.44	-2.23	0.31	-13.00	-47.34
3760.00	-52.66	-59.51	12.42	-5.69	0.12	-13.00	-39.66

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Operation Band	:WCDMA B2	Test Date	:2019-03-28
Fundamental Frequency	:1880 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH MID	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



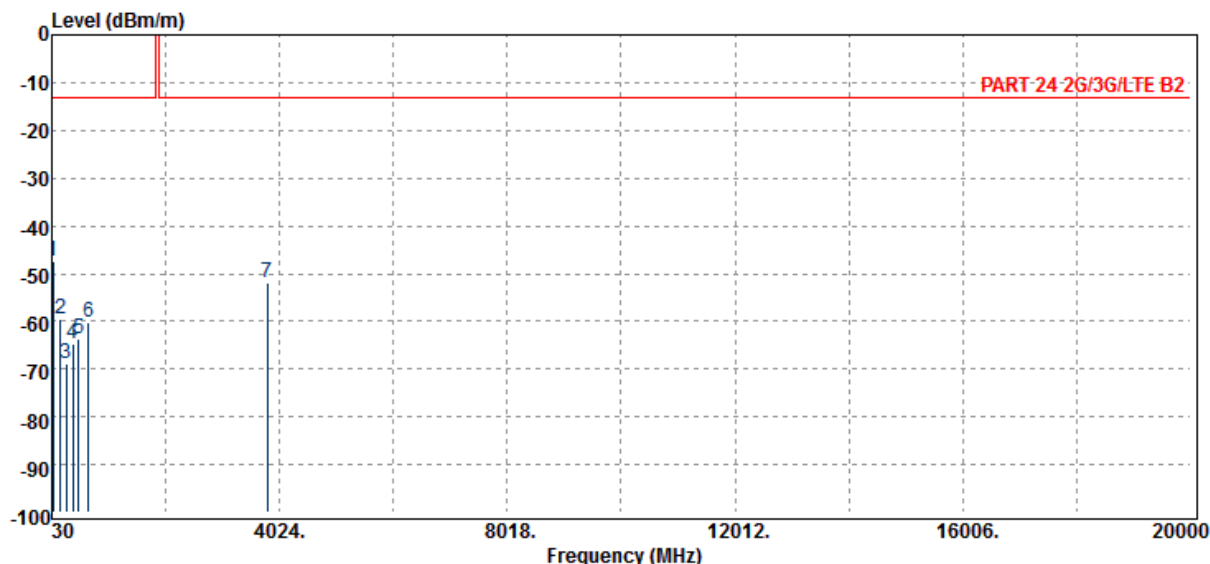
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-54.54	-24.08	-30.05	-0.45	0.04	-13.00	-41.54
154.16	-67.33	-59.53	-6.82	-1.02	0.04	-13.00	-54.33
289.96	-69.43	-65.90	-2.15	-1.41	0.03	-13.00	-56.43
416.06	-64.55	-61.10	-1.85	-1.69	0.09	-13.00	-51.55
483.96	-63.24	-59.23	-2.37	-1.83	0.20	-13.00	-50.24
681.84	-60.79	-57.60	-1.29	-2.20	0.29	-13.00	-47.79
3760.00	-50.36	-57.21	12.42	-5.69	0.12	-13.00	-37.36

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Operation Band	:WCDMA B2	Test Date	:2019-03-28
Fundamental Frequency	:1907.6 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH HIGH	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



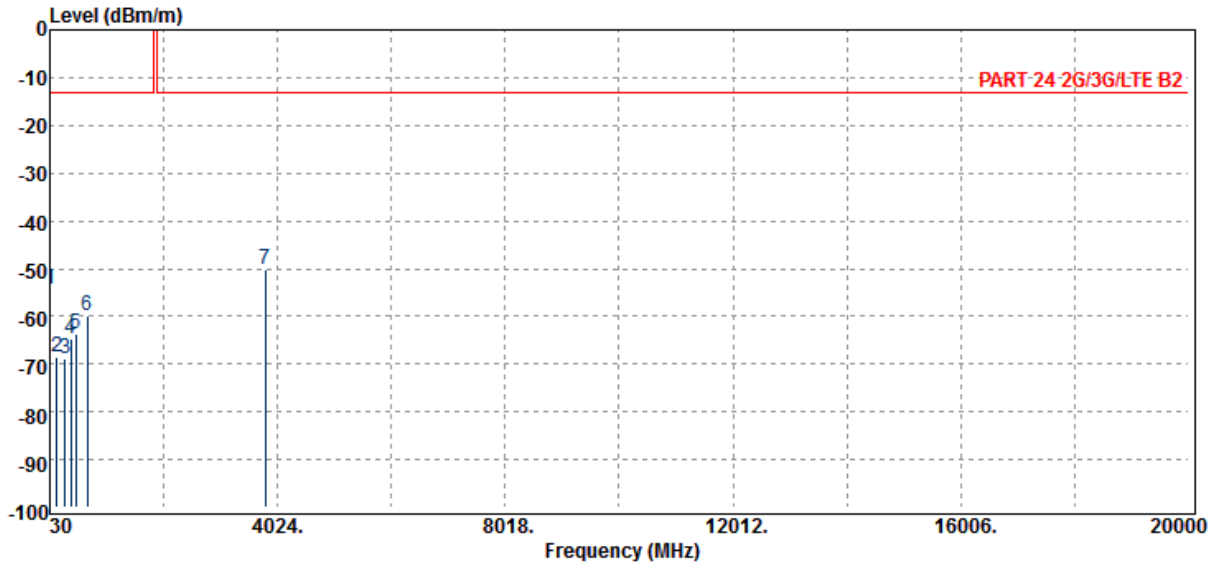
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
54.25	-47.56	-36.21	-10.75	-0.62	0.03	-13.00	-34.56
185.20	-59.53	-54.41	-4.05	-1.12	0.05	-13.00	-46.53
287.05	-68.72	-65.03	-2.33	-1.40	0.03	-13.00	-55.72
405.39	-64.69	-61.35	-1.75	-1.67	0.08	-13.00	-51.69
493.66	-63.67	-59.92	-2.10	-1.86	0.21	-13.00	-50.67
676.99	-60.06	-56.84	-1.31	-2.19	0.29	-13.00	-47.06
3815.20	-51.75	-58.58	12.47	-5.76	0.12	-13.00	-38.75

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Operation Band	:WCDMA B2	Test Date	:2019-03-28
Fundamental Frequency	:1907.6 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH HIGH	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

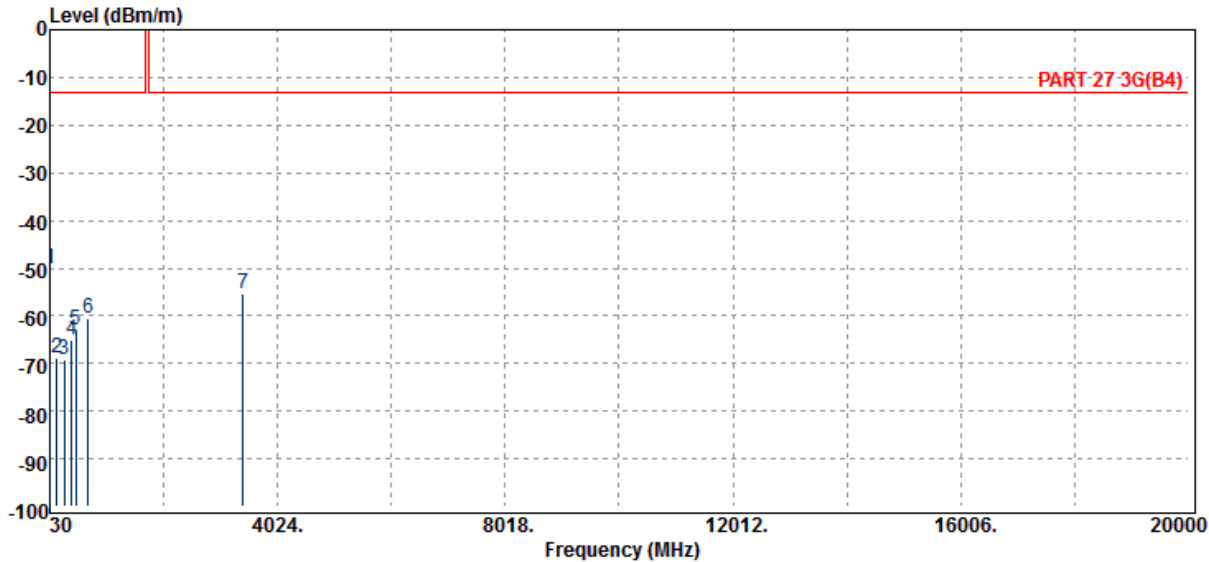


Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-54.47	-24.00	-30.05	-0.45	0.04	-13.00	-41.47
159.01	-68.56	-61.22	-6.35	-1.04	0.04	-13.00	-55.56
296.75	-68.82	-65.34	-2.08	-1.42	0.03	-13.00	-55.82
401.51	-64.61	-61.34	-1.68	-1.66	0.07	-13.00	-51.61
485.90	-63.59	-59.62	-2.33	-1.84	0.20	-13.00	-50.59
687.66	-59.84	-56.58	-1.35	-2.21	0.30	-13.00	-46.84
3815.20	-50.19	-57.01	12.47	-5.76	0.12	-13.00	-37.19

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Radiated Spurious Emission Measurement Result: WCDMA Band 4 Mode

Operation Band	:WCDMA B4	Test Date	:2019-03-28
Fundamental Frequency	:1712.4 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH LOW	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-50.28	-19.81	-30.05	-0.45	0.04	-13.00	-37.28
149.31	-68.86	-60.68	-7.22	-1.00	0.04	-13.00	-55.86
277.35	-69.10	-65.16	-2.60	-1.38	0.03	-13.00	-56.10
408.30	-64.89	-61.54	-1.75	-1.68	0.08	-13.00	-51.89
487.84	-63.06	-59.13	-2.29	-1.84	0.20	-13.00	-50.06
699.30	-60.54	-57.19	-1.44	-2.23	0.31	-13.00	-47.54
3424.80	-55.49	-62.94	12.75	-5.48	0.18	-13.00	-42.49

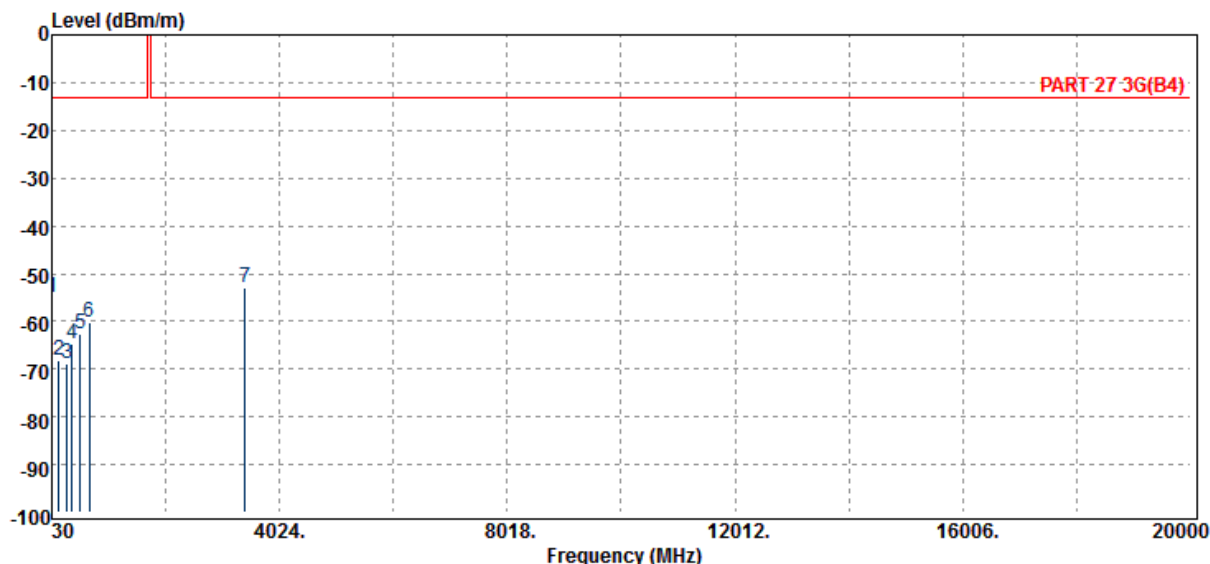
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Operation Band :WCDMA B4
Fundamental Frequency :1712.4 MHz
Operation Mode :Tx CH LOW
EUT Pol. :E2 Plane

Test Date :2019-03-28
Temp./Humi. :22 deg_C / 61 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



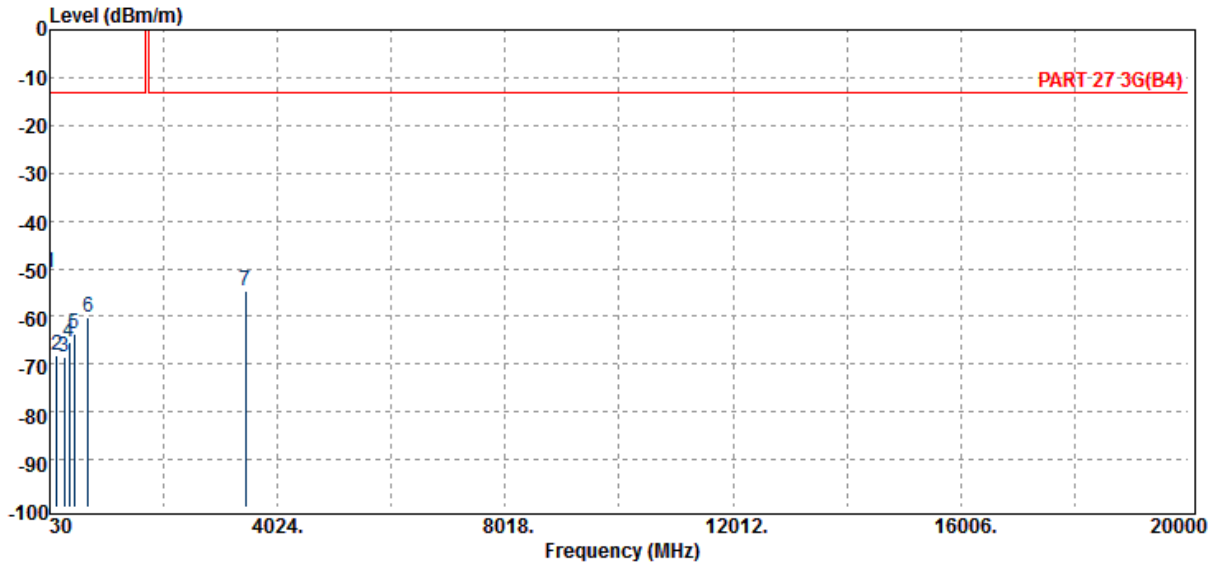
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-55.12	-24.65	-30.05	-0.45	0.04	-13.00	-42.12
146.40	-68.32	-59.86	-7.51	-1.00	0.04	-13.00	-55.32
294.81	-68.90	-65.35	-2.15	-1.42	0.03	-13.00	-55.90
381.14	-64.84	-61.76	-1.53	-1.62	0.06	-13.00	-51.84
522.76	-62.58	-59.49	-1.39	-1.91	0.21	-13.00	-49.58
691.54	-60.10	-56.84	-1.35	-2.22	0.30	-13.00	-47.10
3424.80	-52.81	-60.26	12.75	-5.48	0.18	-13.00	-39.81

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Operation Band	:WCDMA B4	Test Date	:2019-03-28
Fundamental Frequency	:1732.6 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH MID	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



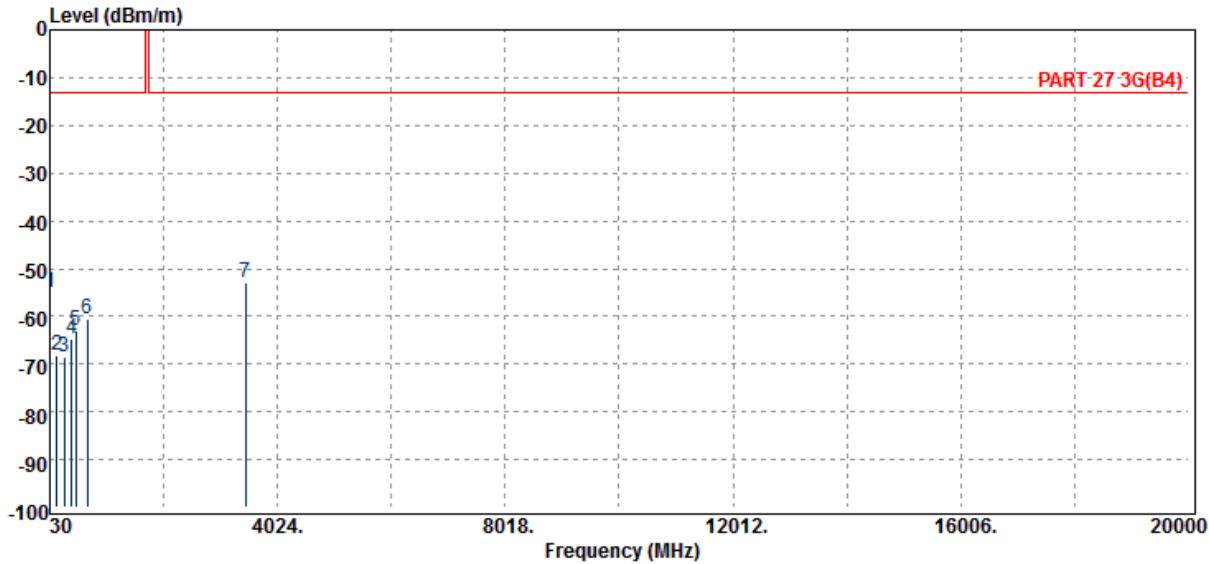
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-50.82	-20.36	-30.05	-0.45	0.04	-13.00	-37.82
151.25	-68.02	-60.00	-7.05	-1.01	0.04	-13.00	-55.02
287.05	-68.55	-64.85	-2.33	-1.40	0.03	-13.00	-55.55
362.71	-65.37	-62.06	-1.80	-1.58	0.05	-13.00	-52.37
461.65	-63.59	-59.86	-2.12	-1.78	0.16	-13.00	-50.59
697.36	-60.11	-56.80	-1.40	-2.22	0.31	-13.00	-47.11
3465.20	-54.58	-61.91	12.64	-5.48	0.17	-13.00	-41.58

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Operation Band	:WCDMA B4	Test Date	:2019-03-28
Fundamental Frequency	:1732.6 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH MID	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-54.94	-24.47	-30.05	-0.45	0.04	-13.00	-41.94
153.19	-68.14	-60.27	-6.89	-1.02	0.04	-13.00	-55.14
279.29	-68.57	-64.66	-2.56	-1.38	0.03	-13.00	-55.57
418.00	-64.75	-61.30	-1.85	-1.70	0.10	-13.00	-51.75
478.14	-62.85	-58.80	-2.41	-1.82	0.19	-13.00	-49.85
691.54	-60.64	-57.38	-1.35	-2.22	0.30	-13.00	-47.64
3465.20	-53.02	-60.35	12.64	-5.48	0.17	-13.00	-40.02

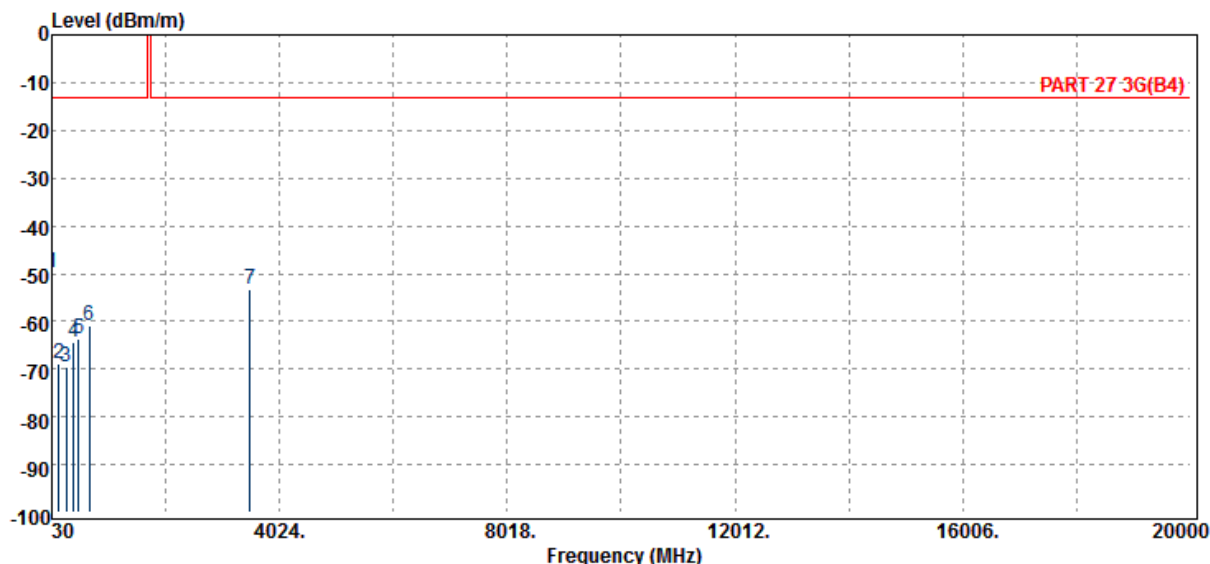
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Operation Band :WCDMA B4
Fundamental Frequency :1752.6 MHz
Operation Mode :Tx CH HIGH
EUT Pol. :E2 Plane

Test Date :2019-03-28
Temp./Humi. :22 deg_C / 61 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-49.95	-19.49	-30.05	-0.45	0.04	-13.00	-36.95
146.40	-68.94	-60.48	-7.51	-1.00	0.04	-13.00	-55.94
284.14	-69.53	-65.70	-2.47	-1.39	0.03	-13.00	-56.53
413.15	-64.44	-61.03	-1.81	-1.69	0.09	-13.00	-51.44
493.66	-63.55	-59.80	-2.10	-1.86	0.21	-13.00	-50.55
694.45	-60.80	-57.54	-1.35	-2.22	0.31	-13.00	-47.80
3505.20	-53.46	-60.55	12.49	-5.55	0.16	-13.00	-40.46

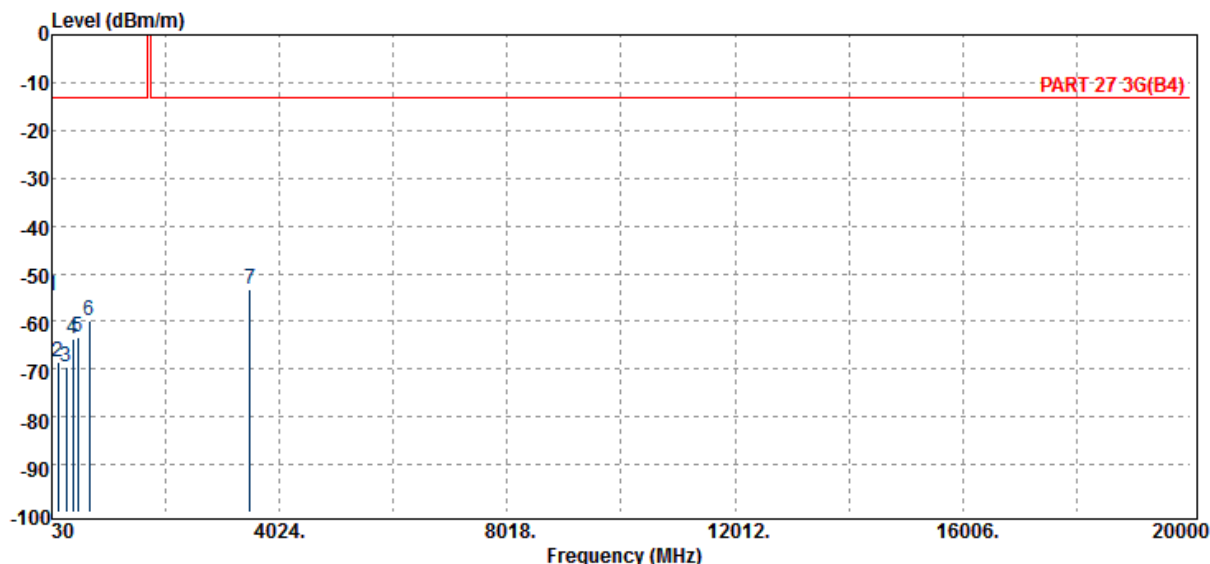
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Operation Band :WCDMA B4
Fundamental Frequency :1752.6 MHz
Operation Mode :Tx CH HIGH
EUT Pol. :E2 Plane

Test Date :2019-03-28
Temp./Humi. :22 deg_C / 61 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-54.80	-24.34	-30.05	-0.45	0.04	-13.00	-41.80
141.55	-68.61	-59.41	-8.27	-0.98	0.04	-13.00	-55.61
285.11	-69.42	-65.62	-2.44	-1.40	0.03	-13.00	-56.42
403.45	-63.64	-60.33	-1.72	-1.67	0.07	-13.00	-50.64
483.96	-63.32	-59.32	-2.37	-1.83	0.20	-13.00	-50.32
694.45	-59.87	-56.61	-1.35	-2.22	0.31	-13.00	-46.87
3505.20	-53.23	-60.33	12.49	-5.55	0.16	-13.00	-40.23

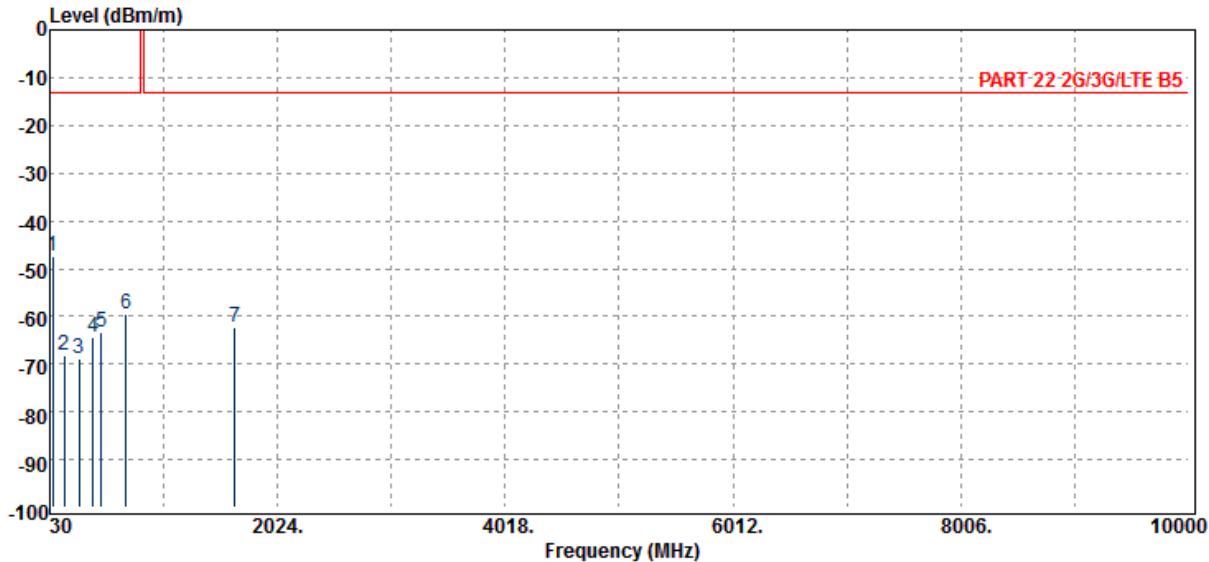
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Radiated Spurious Emission Measurement Result: WCDMA Band 5 Mode

Operation Band	:WCDMA B5	Test Date	:2019-03-28
Fundamental Frequency	:826.4 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH LOW	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



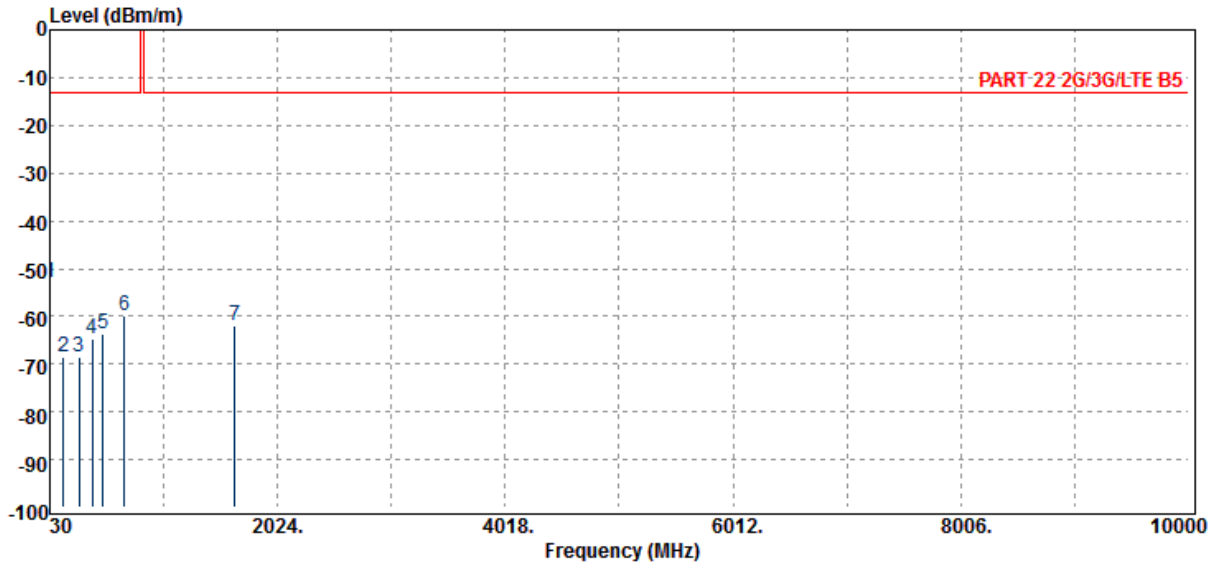
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
54.25	-47.51	-36.28	-10.75	-0.62	0.14	-13.00	-34.51
158.04	-68.18	-60.82	-6.44	-1.04	0.12	-13.00	-55.18
288.99	-68.71	-65.19	-2.21	-1.41	0.10	-13.00	-55.71
408.30	-64.50	-61.34	-1.75	-1.68	0.26	-13.00	-51.50
481.05	-63.28	-59.20	-2.43	-1.83	0.17	-13.00	-50.28
699.30	-59.58	-56.87	-1.44	-2.23	0.95	-13.00	-46.58
1652.80	-62.24	-68.82	9.72	-3.55	0.41	-13.00	-49.24

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Operation Band	:WCDMA B5	Test Date	:2019-03-28
Fundamental Frequency	:826.4 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH LOW	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



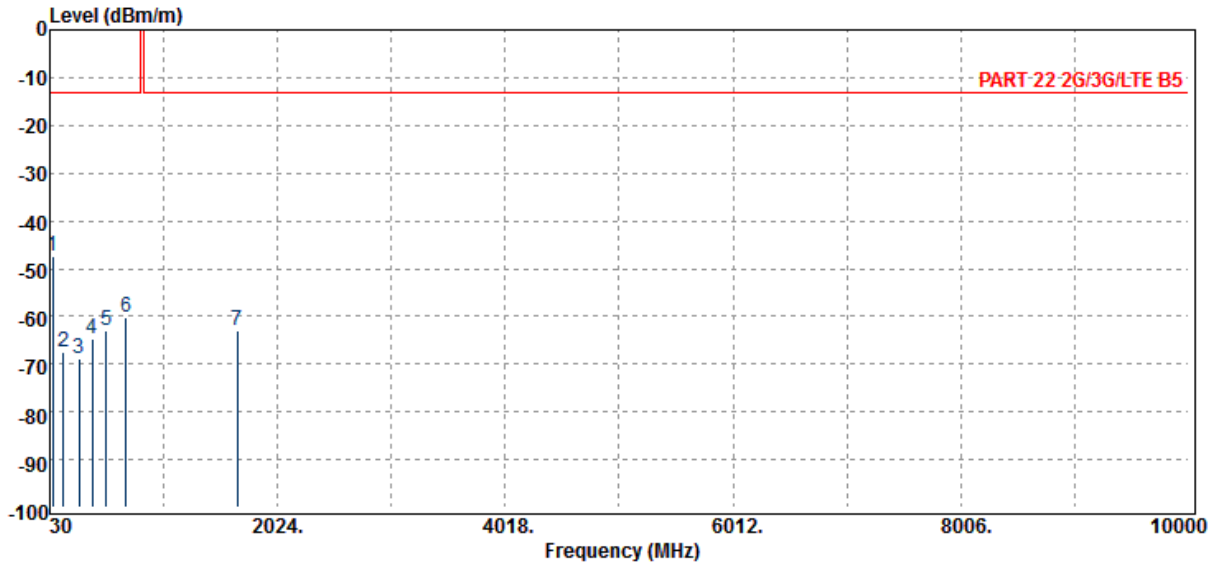
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-52.88	-22.51	-30.05	-0.45	0.13	-13.00	-39.88
149.31	-68.35	-60.25	-7.22	-1.00	0.12	-13.00	-55.35
285.11	-68.69	-64.95	-2.44	-1.40	0.10	-13.00	-55.69
398.60	-64.64	-61.63	-1.62	-1.66	0.27	-13.00	-51.64
492.69	-63.61	-59.77	-2.14	-1.85	0.16	-13.00	-50.61
679.90	-59.85	-57.21	-1.25	-2.20	0.82	-13.00	-46.85
1652.80	-61.89	-68.46	9.72	-3.55	0.41	-13.00	-48.89

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Operation Band	:WCDMA B5	Test Date	:2019-03-28
Fundamental Frequency	:836.6 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH MID	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



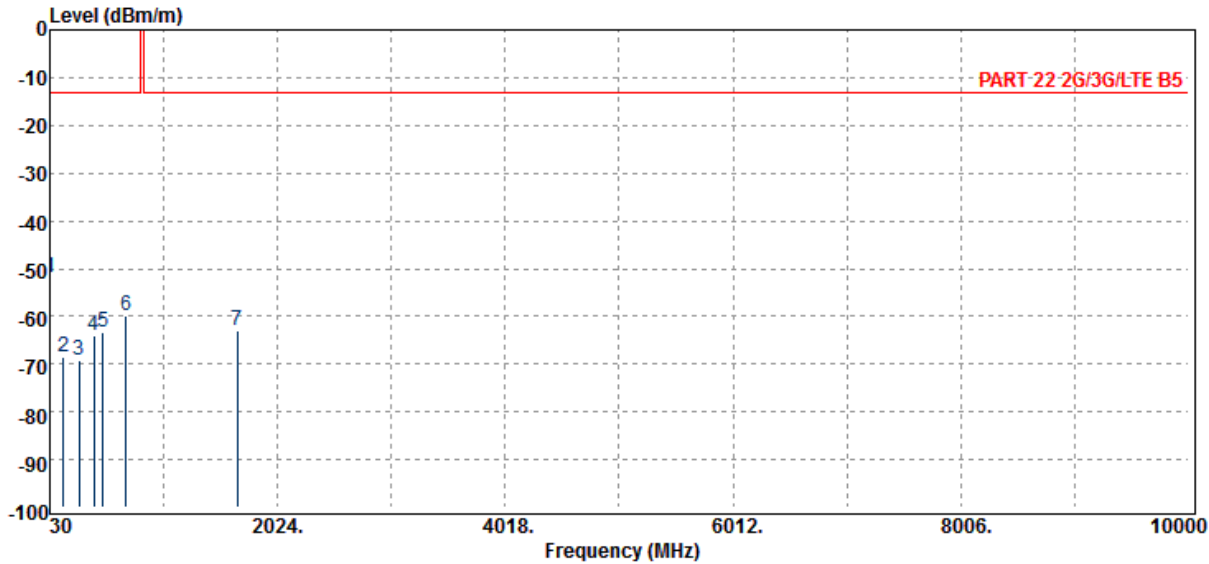
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
56.19	-47.30	-36.30	-10.50	-0.63	0.13	-13.00	-34.30
146.40	-67.34	-58.95	-7.51	-1.00	0.12	-13.00	-54.34
287.05	-68.72	-65.09	-2.33	-1.40	0.10	-13.00	-55.72
403.45	-64.57	-61.46	-1.72	-1.67	0.27	-13.00	-51.57
521.79	-63.06	-59.89	-1.41	-1.91	0.16	-13.00	-50.06
694.45	-60.17	-57.51	-1.35	-2.22	0.92	-13.00	-47.17
1673.20	-63.08	-69.76	9.84	-3.58	0.42	-13.00	-50.08

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Operation Band	:WCDMA B5	Test Date	:2019-03-28
Fundamental Frequency	:836.6 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH MID	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



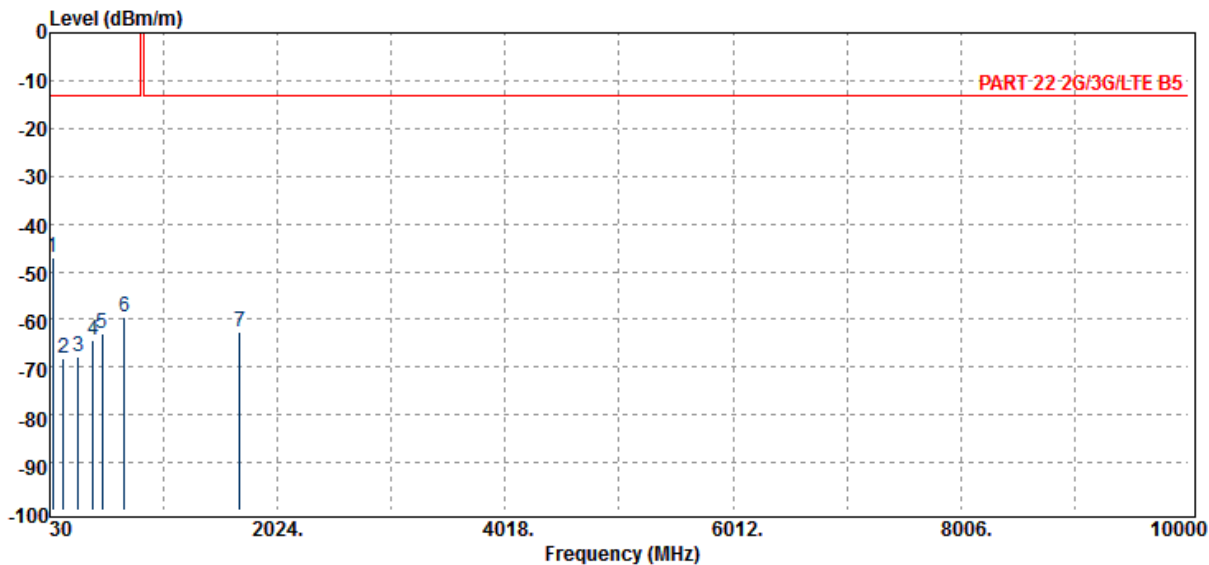
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-51.93	-21.56	-30.05	-0.45	0.13	-13.00	-38.93
146.40	-68.51	-60.13	-7.51	-1.00	0.12	-13.00	-55.51
284.14	-69.15	-65.39	-2.47	-1.39	0.10	-13.00	-56.15
413.15	-64.15	-60.91	-1.81	-1.69	0.26	-13.00	-51.15
495.60	-63.35	-59.60	-2.04	-1.86	0.15	-13.00	-50.35
694.45	-59.77	-57.12	-1.35	-2.22	0.92	-13.00	-46.77
1673.20	-62.96	-69.63	9.84	-3.58	0.42	-13.00	-49.96

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Operation Band	:WCDMA B5	Test Date	:2019-03-28
Fundamental Frequency	:846.6 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH HIGH	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



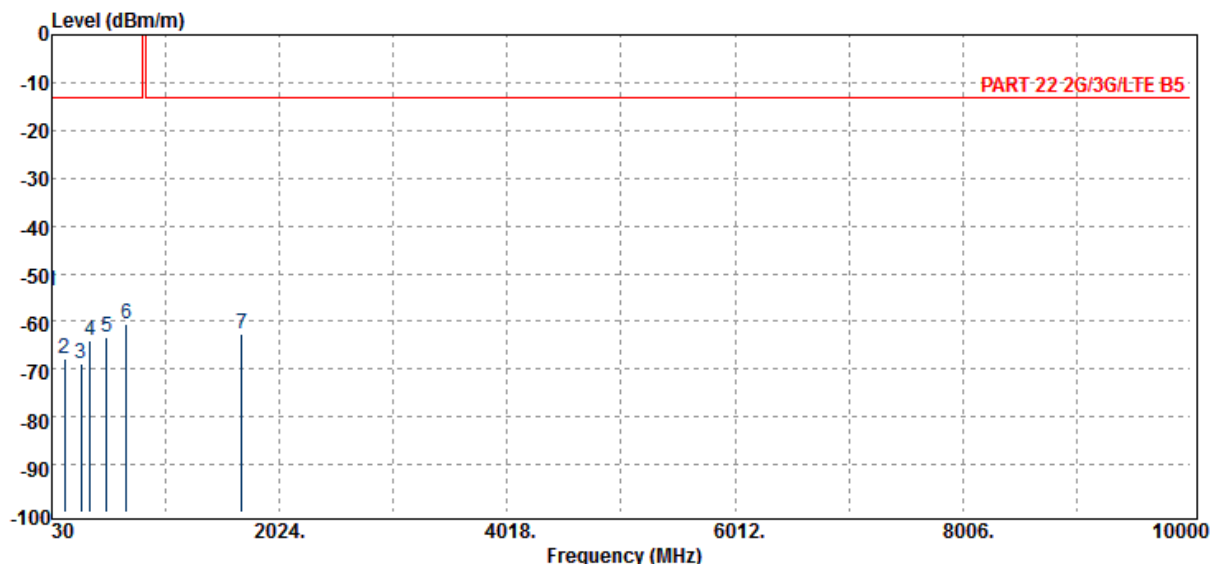
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
56.19	-47.00	-36.01	-10.50	-0.63	0.13	-13.00	-34.00
146.40	-68.01	-59.63	-7.51	-1.00	0.12	-13.00	-55.01
280.26	-67.98	-64.16	-2.54	-1.38	0.10	-13.00	-54.98
411.21	-64.34	-61.14	-1.77	-1.68	0.26	-13.00	-51.34
487.84	-63.02	-59.05	-2.29	-1.84	0.16	-13.00	-50.02
681.84	-59.62	-56.96	-1.29	-2.20	0.83	-13.00	-46.62
1693.20	-62.53	-69.32	9.96	-3.59	0.42	-13.00	-49.53

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Operation Band	:WCDMA B5	Test Date	:2019-03-28
Fundamental Frequency	:846.6 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH HIGH	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-53.48	-23.11	-30.05	-0.45	0.13	-13.00	-40.48
144.46	-67.97	-59.35	-7.75	-0.99	0.12	-13.00	-54.97
285.11	-68.78	-65.04	-2.44	-1.40	0.10	-13.00	-55.78
366.59	-63.96	-60.85	-1.75	-1.59	0.22	-13.00	-50.96
513.06	-63.40	-60.13	-1.53	-1.90	0.16	-13.00	-50.40
684.75	-60.43	-57.73	-1.35	-2.21	0.85	-13.00	-47.43
1693.20	-62.76	-69.55	9.96	-3.59	0.42	-13.00	-49.76

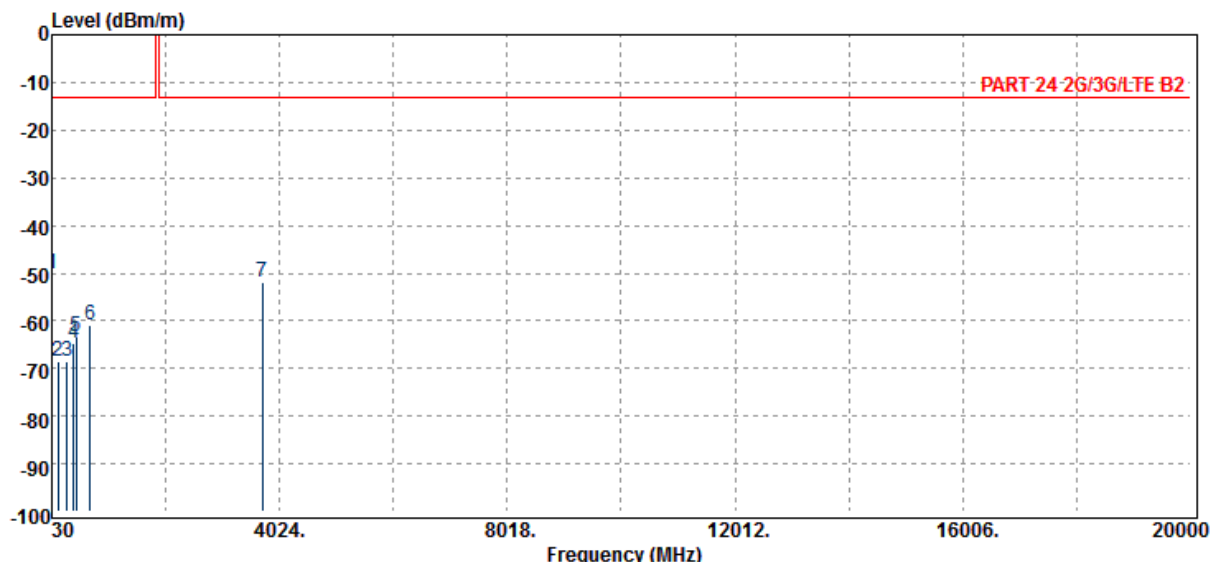
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Radiated Spurious Emission Measurement Result: LTE-Band 2 (The Worst Case)

Operation Band	:LTE B2	Test Date	:2019-03-28
Fundamental Frequency	:1860 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH LOW	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



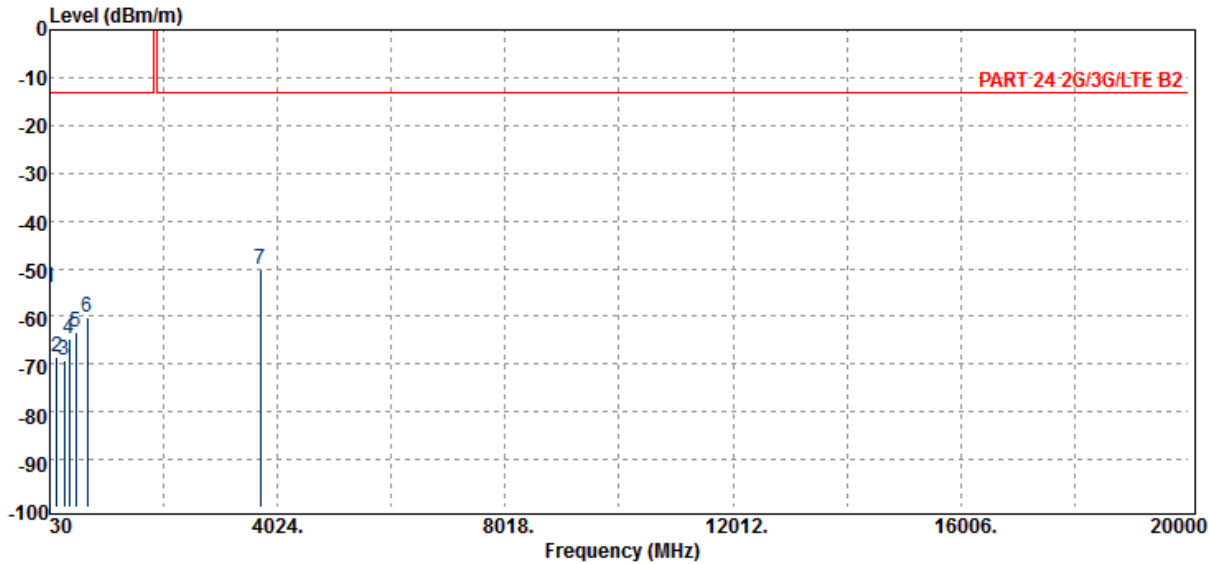
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-50.01	-19.55	-30.05	-0.45	0.04	-13.00	-37.01
143.49	-68.50	-59.64	-7.92	-0.99	0.04	-13.00	-55.50
298.69	-68.53	-65.13	-2.00	-1.43	0.03	-13.00	-55.53
411.21	-64.73	-61.36	-1.77	-1.68	0.09	-13.00	-51.73
454.86	-63.37	-59.70	-2.05	-1.77	0.15	-13.00	-50.37
697.36	-61.07	-57.76	-1.40	-2.22	0.31	-13.00	-48.07
3720.00	-51.77	-58.65	12.46	-5.71	0.13	-13.00	-38.77

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Operation Band	:LTE B2	Test Date	:2019-03-28
Fundamental Frequency	:1860 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH LOW	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



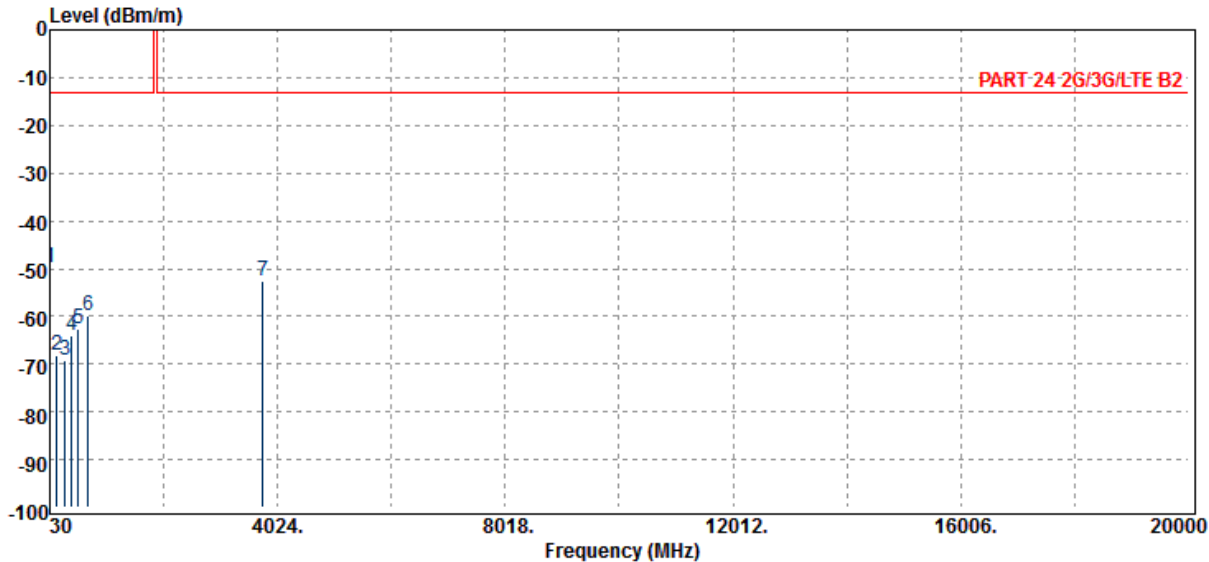
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-54.08	-23.61	-30.05	-0.45	0.04	-13.00	-41.08
146.40	-68.40	-59.94	-7.51	-1.00	0.04	-13.00	-55.40
284.14	-69.14	-65.31	-2.47	-1.39	0.03	-13.00	-56.14
371.44	-64.71	-61.45	-1.72	-1.60	0.06	-13.00	-51.71
490.75	-63.43	-59.57	-2.22	-1.85	0.21	-13.00	-50.43
692.51	-60.13	-56.87	-1.35	-2.22	0.31	-13.00	-47.13
3720.00	-50.07	-56.95	12.46	-5.71	0.13	-13.00	-37.07

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Operation Band	:LTE B2	Test Date	:2019-03-28
Fundamental Frequency	:1880 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH MID	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-49.75	-19.28	-30.05	-0.45	0.04	-13.00	-36.75
156.10	-68.18	-60.55	-6.64	-1.03	0.04	-13.00	-55.18
294.81	-69.20	-65.66	-2.15	-1.42	0.03	-13.00	-56.20
415.09	-64.17	-60.72	-1.85	-1.69	0.09	-13.00	-51.17
524.70	-62.59	-59.53	-1.36	-1.91	0.21	-13.00	-49.59
697.36	-60.02	-56.71	-1.40	-2.22	0.31	-13.00	-47.02
3760.00	-52.67	-59.52	12.42	-5.69	0.12	-13.00	-39.67

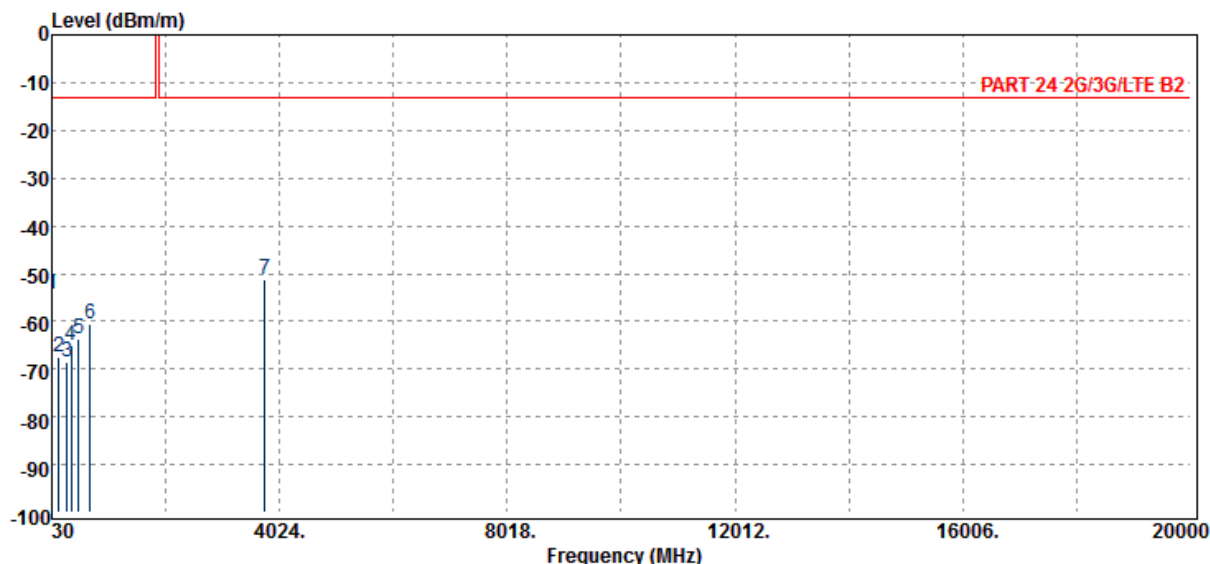
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Operation Band :LTE B2
Fundamental Frequency :1880 MHz
Operation Mode :Tx CH MID
EUT Pol. :E2 Plane

Test Date :2019-03-28
Temp./Humi. :22 deg_C / 61 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



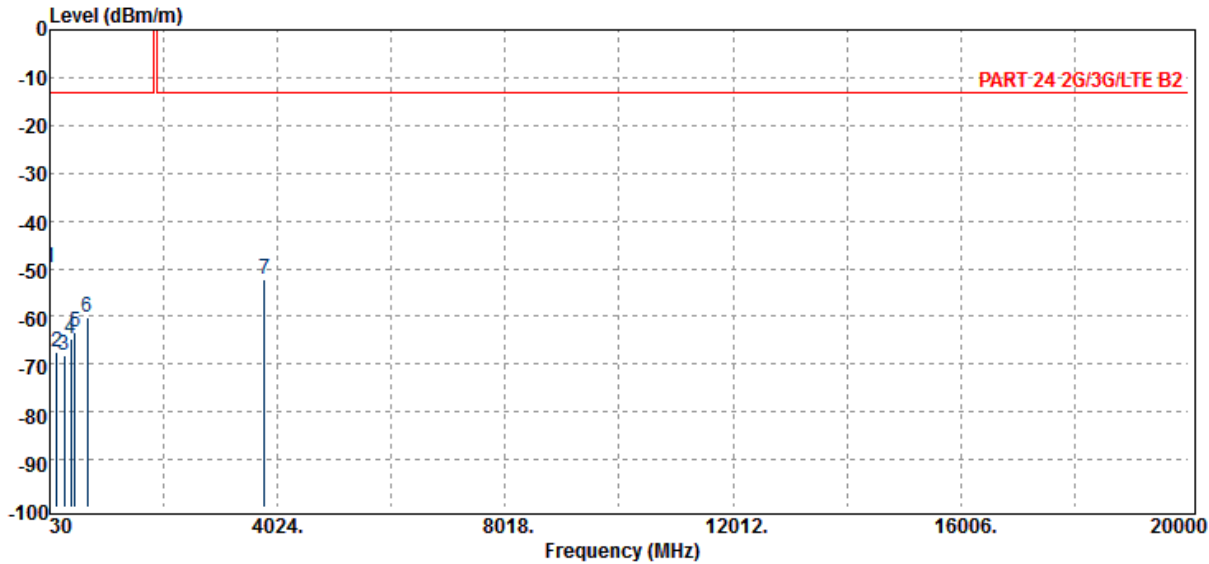
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-54.22	-23.75	-30.05	-0.45	0.04	-13.00	-41.22
151.25	-67.51	-59.49	-7.05	-1.01	0.04	-13.00	-54.51
293.84	-68.50	-64.96	-2.15	-1.42	0.03	-13.00	-55.50
369.50	-64.90	-61.61	-1.75	-1.59	0.06	-13.00	-51.90
497.54	-63.71	-60.07	-2.00	-1.86	0.22	-13.00	-50.71
696.39	-60.58	-57.29	-1.38	-2.22	0.31	-13.00	-47.58
3760.00	-51.10	-57.95	12.42	-5.69	0.12	-13.00	-38.10

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Operation Band	:LTE B2	Test Date	:2019-03-28
Fundamental Frequency	:1900 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH HIGH	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



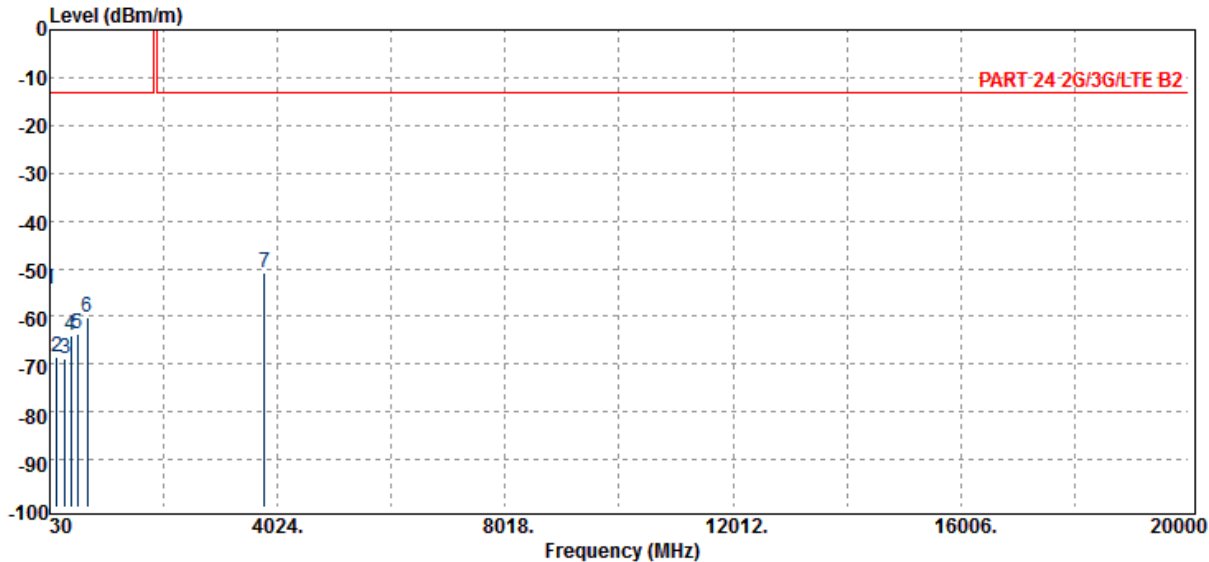
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-49.82	-19.36	-30.05	-0.45	0.04	-13.00	-36.82
146.40	-67.36	-58.90	-7.51	-1.00	0.04	-13.00	-54.36
287.05	-68.28	-64.58	-2.33	-1.40	0.03	-13.00	-55.28
398.60	-64.59	-61.38	-1.62	-1.66	0.07	-13.00	-51.59
476.20	-63.21	-59.21	-2.37	-1.81	0.19	-13.00	-50.21
691.54	-60.38	-57.12	-1.35	-2.22	0.30	-13.00	-47.38
3800.00	-52.32	-59.19	12.50	-5.76	0.12	-13.00	-39.32

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Operation Band	:LTE B2	Test Date	:2019-03-28
Fundamental Frequency	:1900 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH HIGH	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-54.23	-23.77	-30.05	-0.45	0.04	-13.00	-41.23
158.04	-68.57	-61.14	-6.44	-1.04	0.04	-13.00	-55.57
293.84	-68.77	-65.23	-2.15	-1.42	0.03	-13.00	-55.77
396.66	-64.13	-60.96	-1.58	-1.65	0.07	-13.00	-51.13
507.24	-63.69	-60.26	-1.76	-1.89	0.22	-13.00	-50.69
689.60	-60.35	-57.09	-1.35	-2.21	0.30	-13.00	-47.35
3800.00	-50.71	-57.57	12.50	-5.76	0.12	-13.00	-37.71

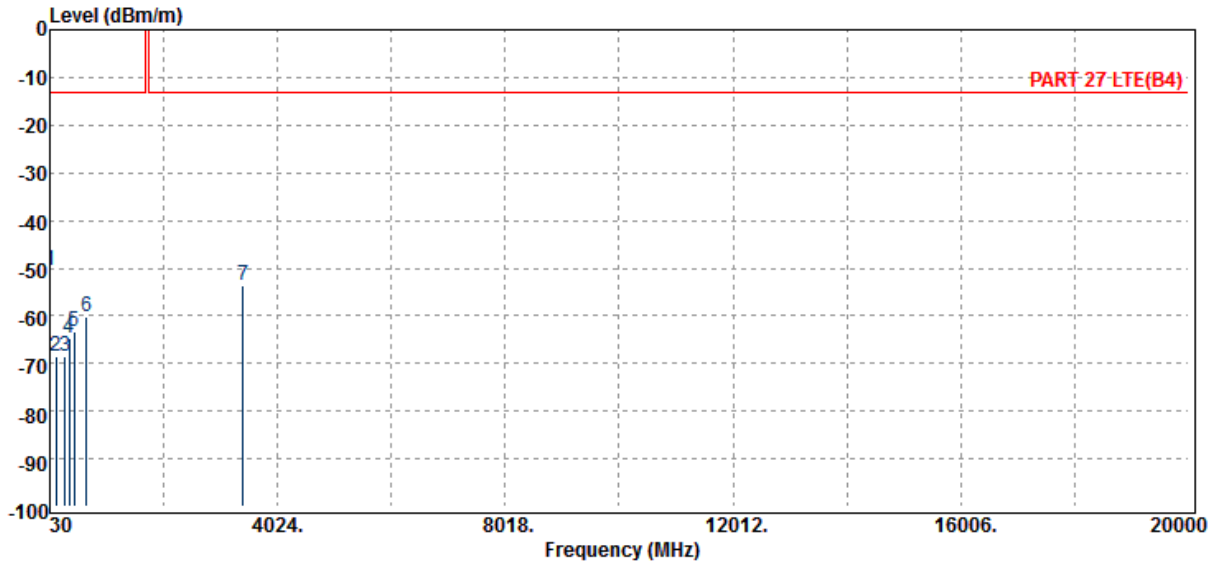
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Radiated Spurious Emission Measurement Result: LTE-Band 4 (The Worst Case)

Operation Band	:LTE B4	Test Date	:2019-03-28
Fundamental Frequency	:1710.7 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH LOW	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-50.60	-20.13	-30.05	-0.45	0.04	-13.00	-37.60
144.46	-68.60	-59.90	-7.75	-0.99	0.04	-13.00	-55.60
293.84	-68.66	-65.13	-2.15	-1.42	0.03	-13.00	-55.66
364.65	-64.82	-61.53	-1.76	-1.58	0.06	-13.00	-51.82
458.74	-63.26	-59.59	-2.05	-1.78	0.16	-13.00	-50.26
672.14	-60.31	-57.00	-1.41	-2.19	0.28	-13.00	-47.31
3421.40	-53.57	-61.03	12.76	-5.48	0.18	-13.00	-40.57

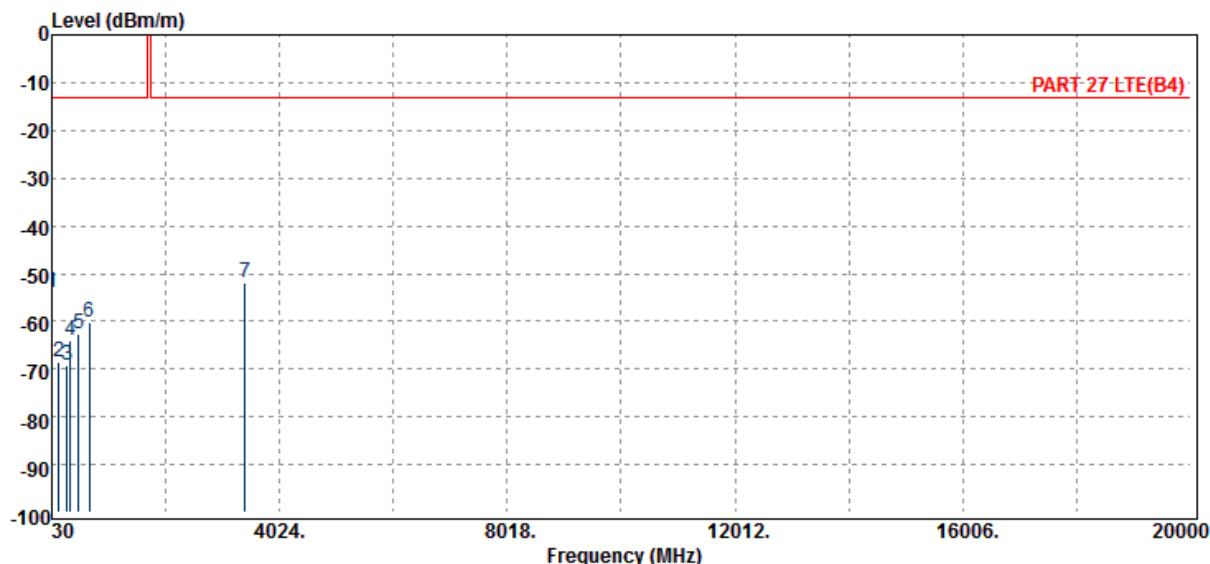
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Operation Band :LTE B4
Fundamental Frequency :1710.7 MHz
Operation Mode :Tx CH LOW
EUT Pol. :E2 Plane

Test Date :2019-03-28
Temp./Humi. :22 deg_C / 61 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



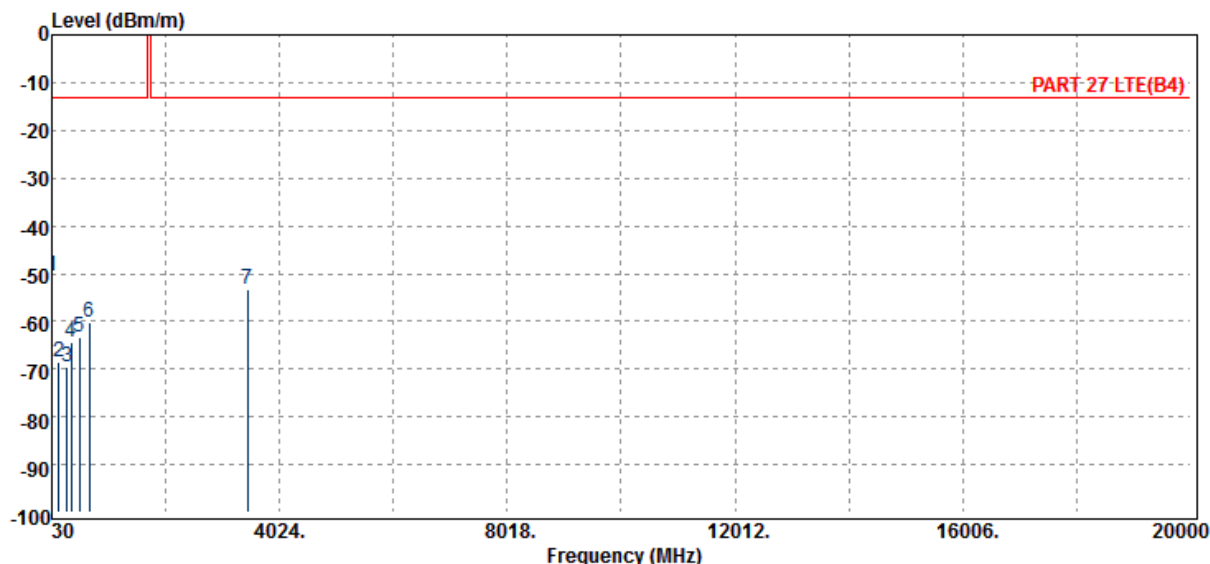
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-53.88	-23.41	-30.05	-0.45	0.04	-13.00	-40.88
148.34	-68.60	-60.33	-7.31	-1.00	0.04	-13.00	-55.60
294.81	-69.22	-65.67	-2.15	-1.42	0.03	-13.00	-56.22
361.74	-63.85	-60.52	-1.82	-1.58	0.05	-13.00	-50.85
497.54	-62.74	-59.10	-2.00	-1.86	0.22	-13.00	-49.74
692.51	-60.34	-57.08	-1.35	-2.22	0.31	-13.00	-47.34
3421.40	-51.76	-59.22	12.76	-5.48	0.18	-13.00	-38.76

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Operation Band	:LTE B4	Test Date	:2019-03-28
Fundamental Frequency	:1732.5 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH MID	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-50.45	-19.98	-30.05	-0.45	0.04	-13.00	-37.45
154.16	-68.50	-60.70	-6.82	-1.02	0.04	-13.00	-55.50
293.84	-69.64	-66.10	-2.15	-1.42	0.03	-13.00	-56.64
369.50	-64.31	-61.02	-1.75	-1.59	0.06	-13.00	-51.31
510.15	-63.16	-59.84	-1.64	-1.89	0.21	-13.00	-50.16
687.66	-60.35	-57.09	-1.35	-2.21	0.30	-13.00	-47.35
3465.00	-53.37	-60.70	12.64	-5.48	0.17	-13.00	-40.37

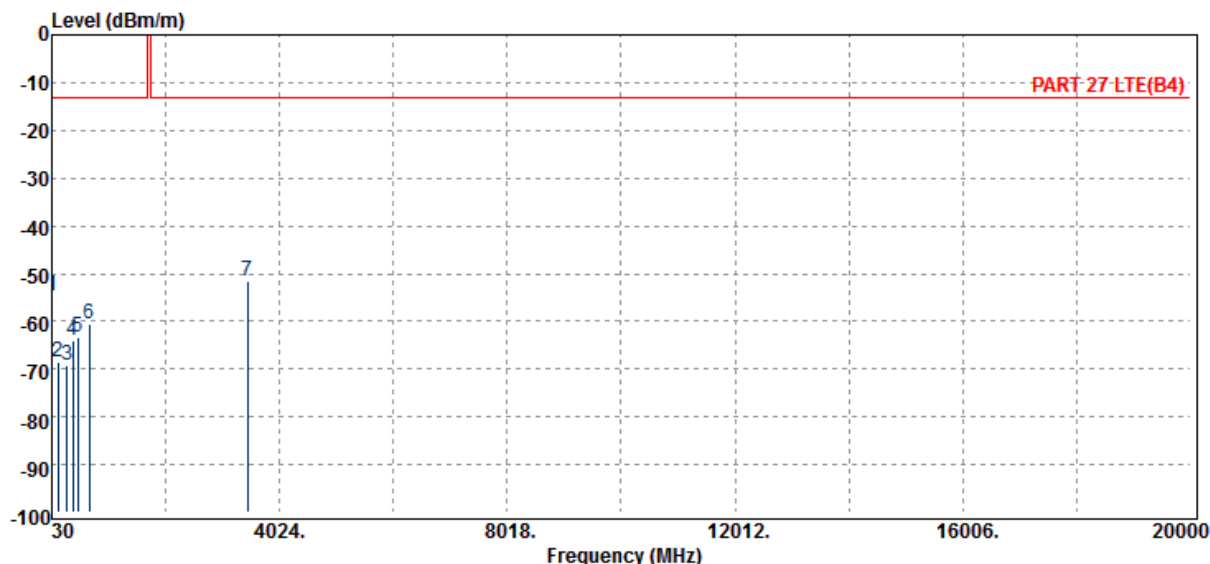
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Operation Band :LTE B4
Fundamental Frequency :1732.5 MHz
Operation Mode :Tx CH MID
EUT Pol. :E2 Plane

Test Date :2019-03-28
Temp./Humi. :22 deg_C / 61 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



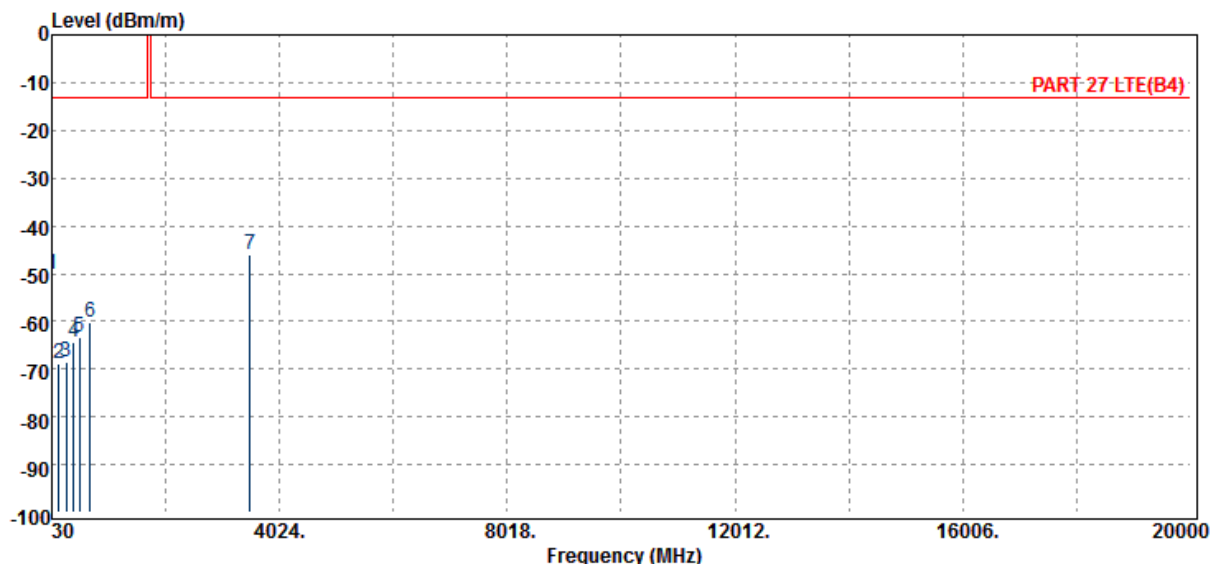
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-54.55	-24.08	-30.05	-0.45	0.04	-13.00	-41.55
143.49	-68.53	-59.67	-7.92	-0.99	0.04	-13.00	-55.53
299.66	-69.28	-65.91	-1.96	-1.43	0.03	-13.00	-56.28
401.51	-63.85	-60.57	-1.68	-1.66	0.07	-13.00	-50.85
488.81	-63.47	-59.56	-2.27	-1.84	0.20	-13.00	-50.47
694.45	-60.68	-57.41	-1.35	-2.22	0.31	-13.00	-47.68
3465.00	-51.65	-58.98	12.64	-5.48	0.17	-13.00	-38.65

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Operation Band	:LTE B4	Test Date	:2019-03-28
Fundamental Frequency	:1754.3 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH HIGH	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-50.27	-19.80	-30.05	-0.45	0.04	-13.00	-37.27
159.01	-68.75	-61.41	-6.35	-1.04	0.04	-13.00	-55.75
288.99	-68.64	-65.05	-2.21	-1.41	0.03	-13.00	-55.64
410.24	-64.50	-61.15	-1.75	-1.68	0.08	-13.00	-51.50
519.85	-63.46	-60.32	-1.45	-1.91	0.21	-13.00	-50.46
697.36	-60.16	-56.85	-1.40	-2.22	0.31	-13.00	-47.16
3508.60	-45.86	-52.94	12.48	-5.56	0.15	-13.00	-32.86

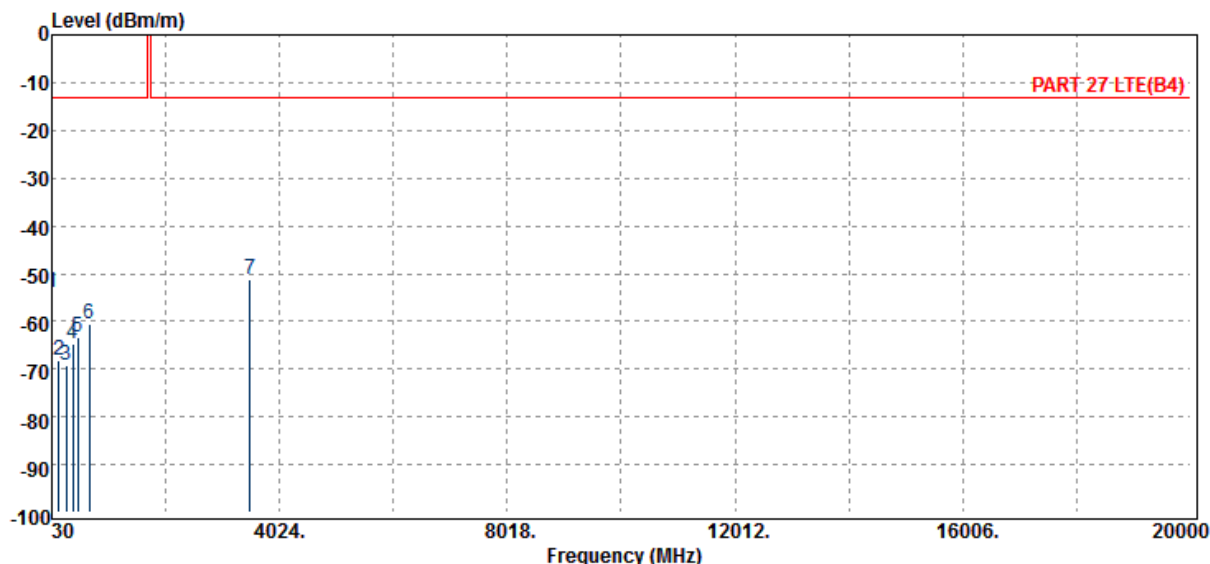
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Operation Band :LTE B4
Fundamental Frequency :1754.3 MHz
Operation Mode :Tx CH HIGH
EUT Pol. :E2 Plane

Test Date :2019-03-28
Temp./Humi. :22 deg_C / 61 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-53.88	-23.41	-30.05	-0.45	0.04	-13.00	-40.88
151.25	-68.06	-60.04	-7.05	-1.01	0.04	-13.00	-55.06
288.99	-69.21	-65.62	-2.21	-1.41	0.03	-13.00	-56.21
403.45	-64.77	-61.46	-1.72	-1.67	0.07	-13.00	-51.77
485.90	-63.29	-59.32	-2.33	-1.84	0.20	-13.00	-50.29
681.84	-60.61	-57.42	-1.29	-2.20	0.29	-13.00	-47.61
3508.60	-51.31	-58.39	12.48	-5.56	0.15	-13.00	-38.31

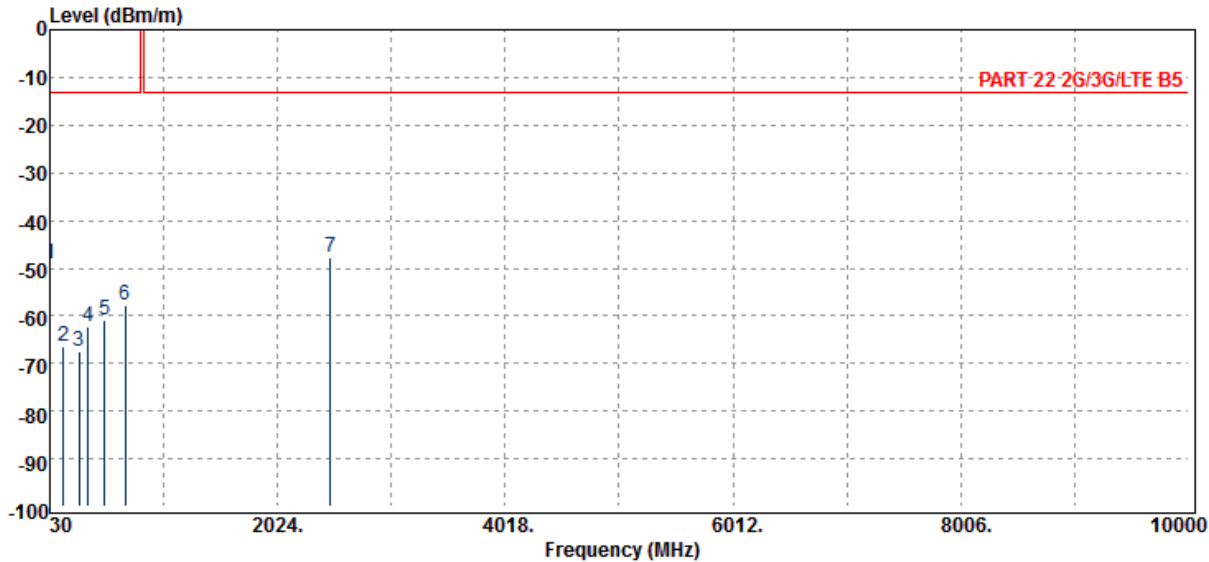
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Radiated Spurious Emission Measurement Result: LTE-Band 5 (The Worst Case)

Operation Band	:LTE B5	Test Date	:2019-03-28
Fundamental Frequency	:829 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH LOW	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



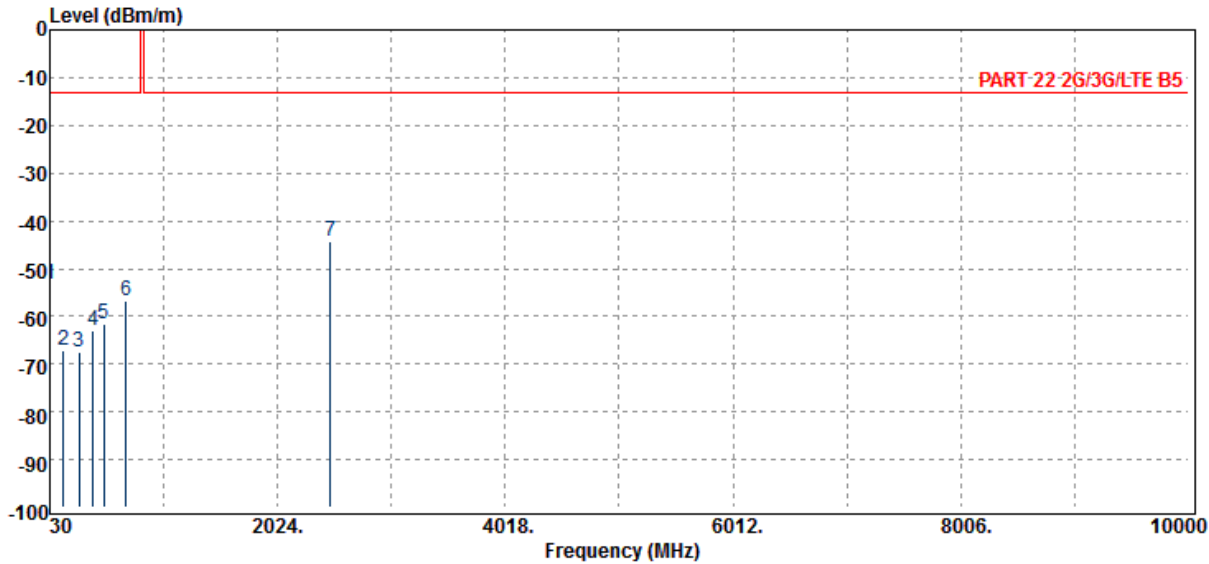
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-49.21	-18.84	-30.05	-0.45	0.13	-13.00	-36.21
151.25	-66.50	-58.56	-7.05	-1.01	0.12	-13.00	-53.50
285.11	-67.34	-63.60	-2.44	-1.40	0.10	-13.00	-54.34
362.71	-62.30	-59.14	-1.80	-1.58	0.21	-13.00	-49.30
508.21	-60.81	-57.35	-1.72	-1.89	0.15	-13.00	-47.81
686.69	-57.74	-55.05	-1.35	-2.21	0.86	-13.00	-44.74
2487.00	-47.74	-54.35	10.75	-4.51	0.38	-13.00	-34.74

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Operation Band	:LTE B5	Test Date	:2019-03-28
Fundamental Frequency	:829 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH LOW	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-53.25	-22.88	-30.05	-0.45	0.13	-13.00	-40.25
148.34	-67.18	-58.99	-7.31	-1.00	0.12	-13.00	-54.18
288.99	-67.35	-63.83	-2.21	-1.41	0.10	-13.00	-54.35
411.21	-62.82	-59.62	-1.77	-1.68	0.26	-13.00	-49.82
502.39	-61.56	-57.93	-1.90	-1.88	0.15	-13.00	-48.56
694.45	-56.91	-54.25	-1.35	-2.22	0.92	-13.00	-43.91
2487.00	-44.14	-50.75	10.75	-4.51	0.38	-13.00	-31.14

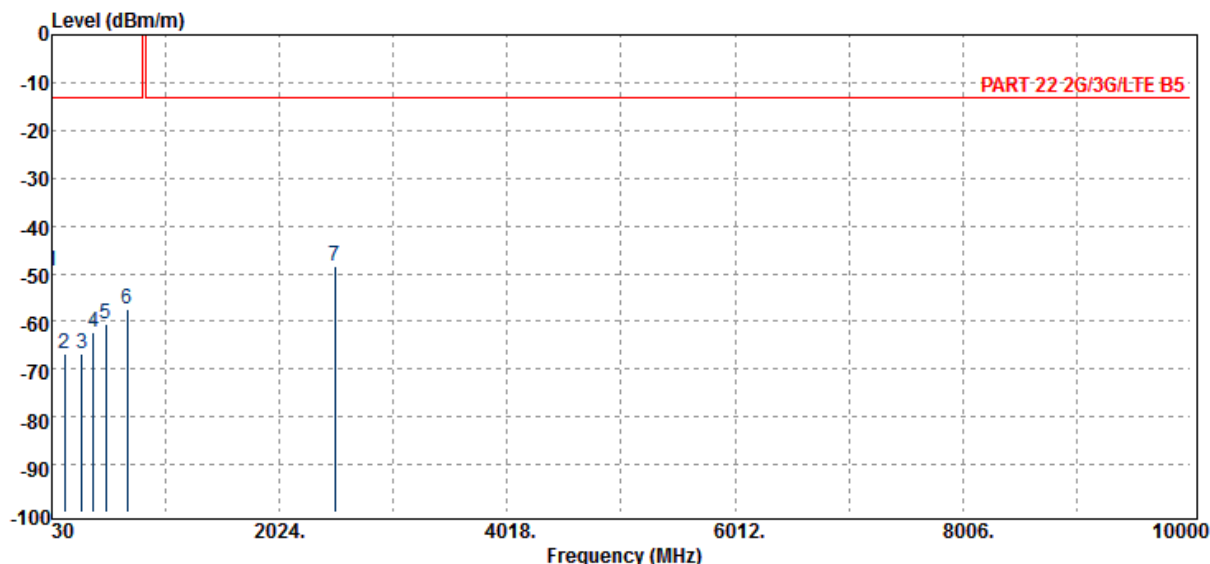
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Operation Band :LTE B5
Fundamental Frequency :836.5 MHz
Operation Mode :Tx CH MID
EUT Pol. :E2 Plane

Test Date :2019-03-28
Temp./Humi. :22 deg_C / 61 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



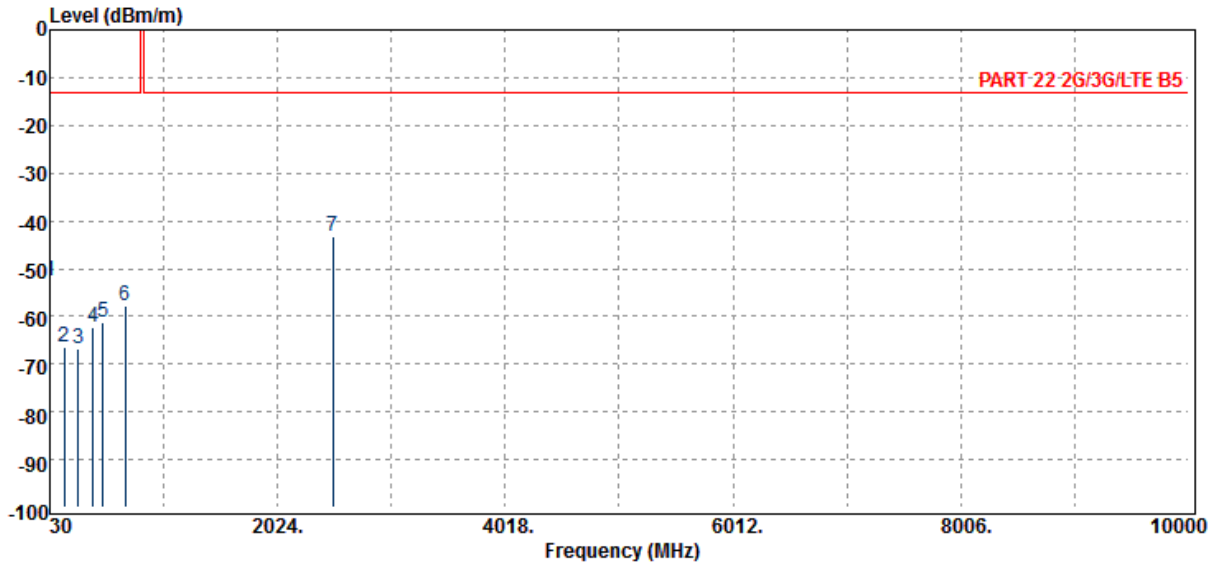
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-49.49	-19.12	-30.05	-0.45	0.13	-13.00	-36.49
141.55	-66.90	-57.78	-8.27	-0.98	0.12	-13.00	-53.90
296.75	-66.64	-63.23	-2.08	-1.42	0.10	-13.00	-53.64
396.66	-62.24	-59.27	-1.58	-1.65	0.27	-13.00	-49.24
502.39	-60.70	-57.07	-1.90	-1.88	0.15	-13.00	-47.70
686.69	-57.60	-54.90	-1.35	-2.21	0.86	-13.00	-44.60
2509.50	-48.54	-55.12	10.80	-4.59	0.37	-13.00	-35.54

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Operation Band	:LTE B5	Test Date	:2019-03-28
Fundamental Frequency	:836.5 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH MID	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



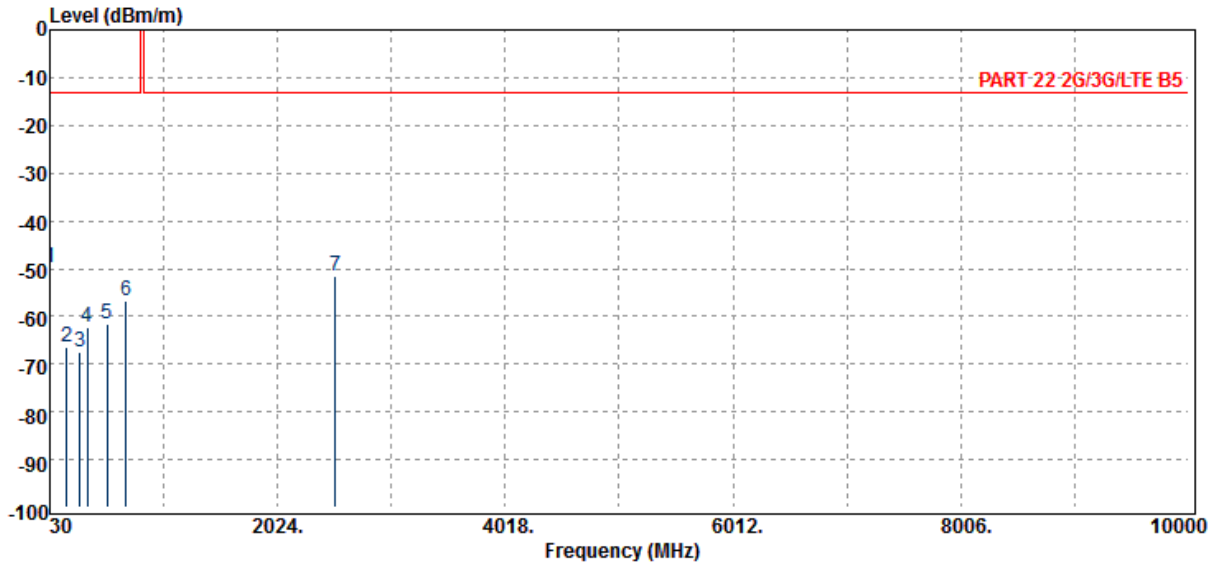
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-52.58	-22.21	-30.05	-0.45	0.13	-13.00	-39.58
154.16	-66.50	-58.78	-6.82	-1.02	0.12	-13.00	-53.50
275.41	-66.87	-62.96	-2.64	-1.37	0.10	-13.00	-53.87
411.21	-62.43	-59.23	-1.77	-1.68	0.26	-13.00	-49.43
493.66	-61.26	-57.45	-2.10	-1.86	0.15	-13.00	-48.26
691.54	-57.92	-55.25	-1.35	-2.22	0.90	-13.00	-44.92
2509.50	-43.24	-49.82	10.80	-4.59	0.37	-13.00	-30.24

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Operation Band	:LTE B5	Test Date	:2019-03-28
Fundamental Frequency	:844 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH HIGH	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



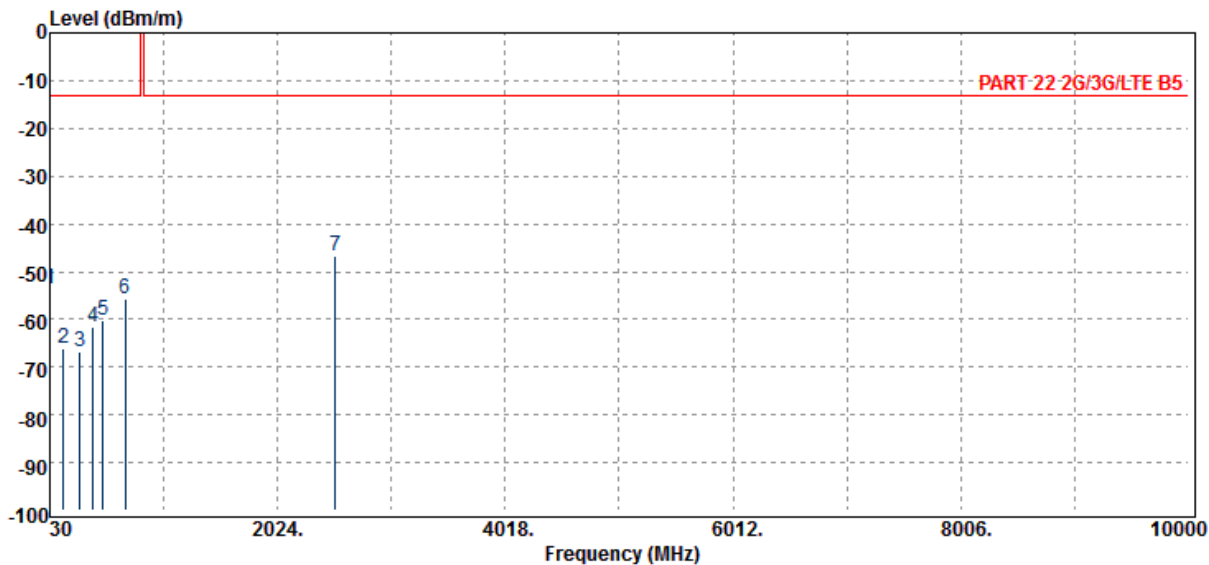
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-49.74	-19.37	-30.05	-0.45	0.13	-13.00	-36.74
175.50	-66.37	-60.49	-4.90	-1.09	0.12	-13.00	-53.37
289.96	-67.47	-64.01	-2.15	-1.41	0.10	-13.00	-54.47
359.80	-62.24	-59.04	-1.85	-1.57	0.21	-13.00	-49.24
529.55	-61.53	-58.42	-1.35	-1.92	0.17	-13.00	-48.53
697.36	-56.85	-54.17	-1.40	-2.22	0.94	-13.00	-43.85
2532.00	-51.59	-58.16	10.80	-4.59	0.36	-13.00	-38.59

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Operation Band	:LTE B5	Test Date	:2019-03-28
Fundamental Frequency	:844 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH HIGH	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-53.70	-23.33	-30.05	-0.45	0.13	-13.00	-40.70
151.25	-66.10	-58.16	-7.05	-1.01	0.12	-13.00	-53.10
296.75	-66.79	-63.38	-2.08	-1.42	0.10	-13.00	-53.79
405.39	-61.59	-58.44	-1.75	-1.67	0.27	-13.00	-48.59
492.69	-60.09	-56.25	-2.14	-1.85	0.16	-13.00	-47.09
689.60	-55.86	-53.18	-1.35	-2.21	0.88	-13.00	-42.86
2532.00	-46.82	-53.39	10.80	-4.59	0.36	-13.00	-33.82

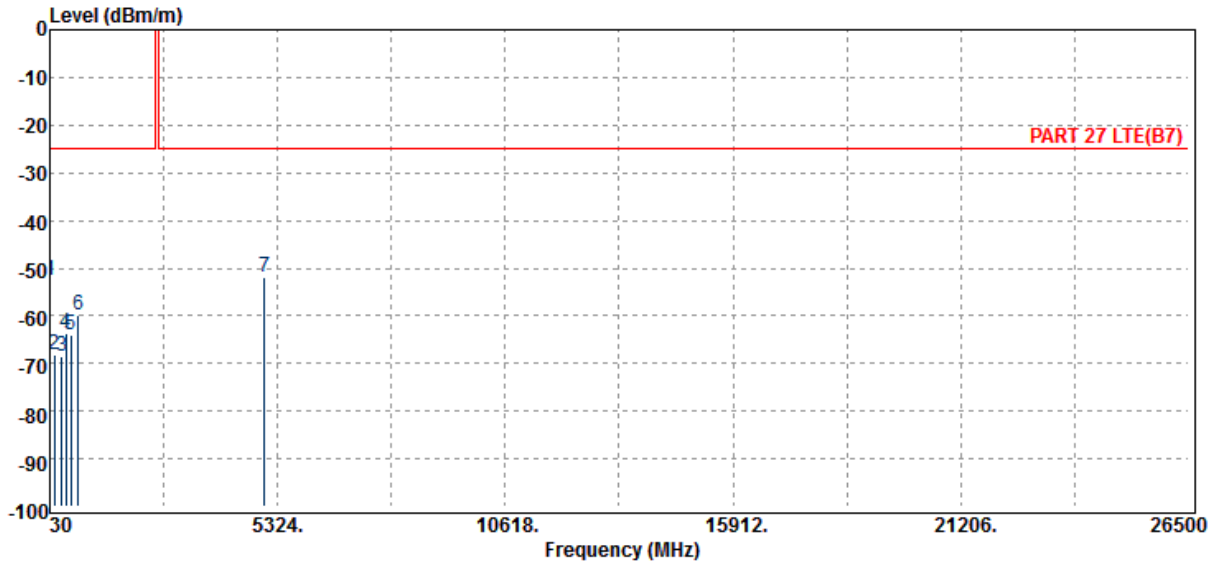
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Radiated Spurious Emission Measurement Result: LTE-Band 7 (The Worst Case)

Operation Band	:LTE B7	Test Date	:2019-03-28
Fundamental Frequency	:2510 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH LOW	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



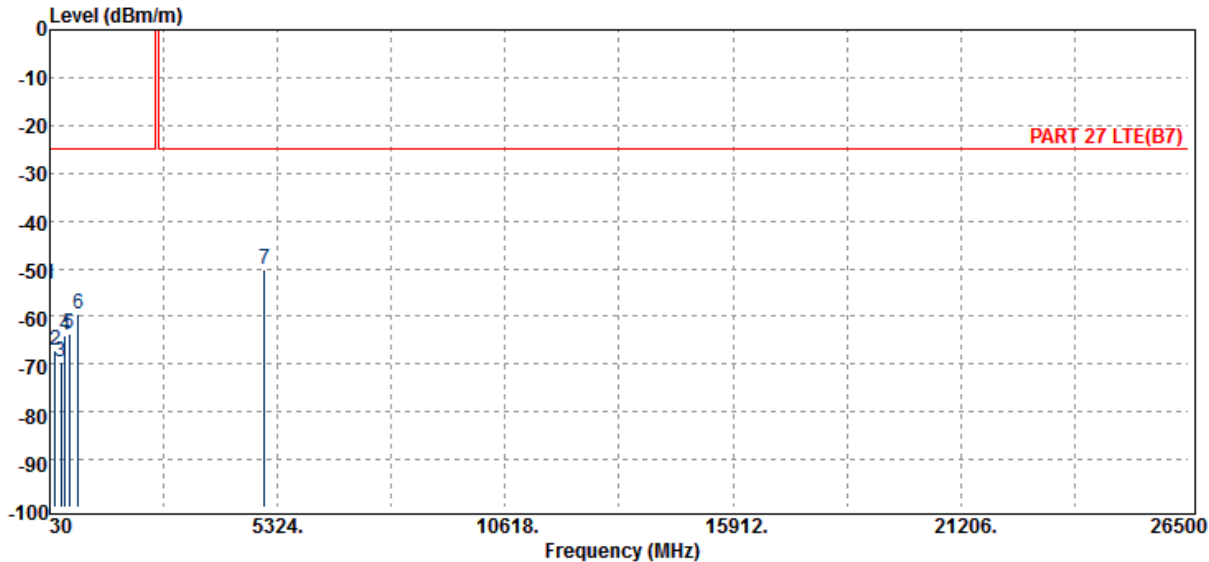
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-52.71	-22.24	-30.05	-0.45	0.03	-25.00	-27.71
141.55	-68.21	-59.05	-8.27	-0.98	0.09	-25.00	-43.21
298.69	-68.57	-65.25	-2.00	-1.43	0.11	-25.00	-43.57
410.24	-63.75	-60.47	-1.75	-1.68	0.16	-25.00	-38.75
582.90	-63.07	-59.90	-1.23	-2.03	0.10	-25.00	-38.07
697.36	-59.90	-56.49	-1.40	-2.22	0.21	-25.00	-34.90
5020.00	-52.01	-58.40	12.46	-6.61	0.54	-25.00	-27.01

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Operation Band	:LTE B7	Test Date	:2019-03-28
Fundamental Frequency	:2510 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH LOW	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-53.13	-22.65	-30.05	-0.45	0.03	-25.00	-28.13
151.25	-67.28	-59.31	-7.05	-1.01	0.09	-25.00	-42.28
287.05	-69.49	-65.89	-2.33	-1.40	0.13	-25.00	-44.49
385.99	-64.14	-61.14	-1.45	-1.63	0.09	-25.00	-39.14
479.11	-63.68	-59.57	-2.43	-1.82	0.14	-25.00	-38.68
686.69	-59.63	-56.33	-1.35	-2.21	0.26	-25.00	-34.63
5020.00	-50.02	-56.40	12.46	-6.61	0.54	-25.00	-25.02

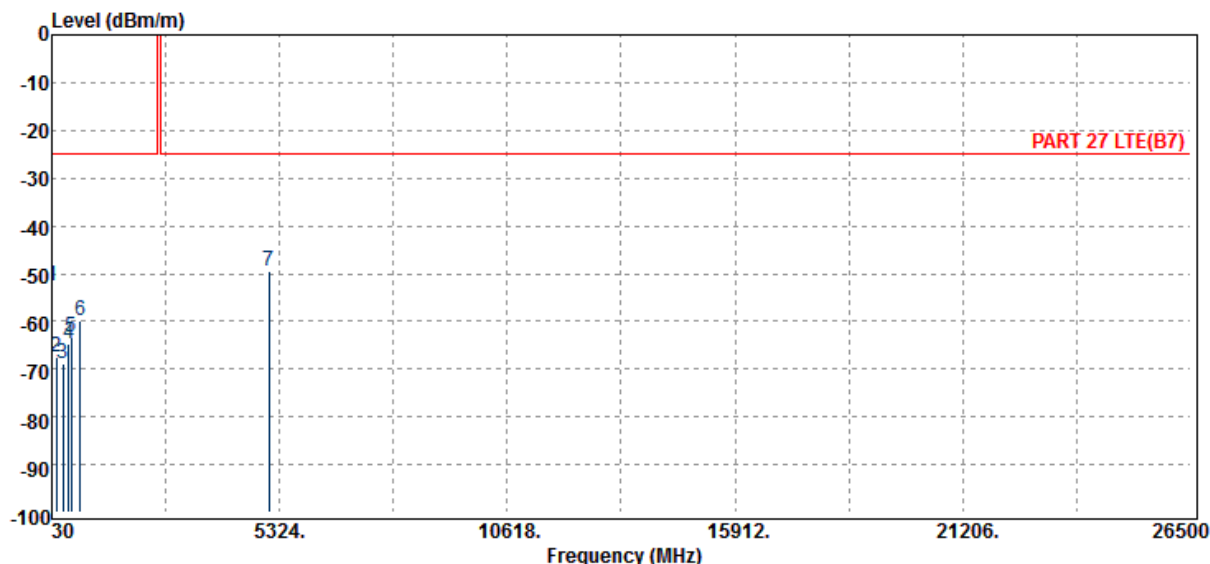
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Operation Band :LTE B7
Fundamental Frequency :2535 MHz
Operation Mode :Tx CH MID
EUT Pol. :E2 Plane

Test Date :2019-03-28
Temp./Humi. :22 deg_C / 61 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



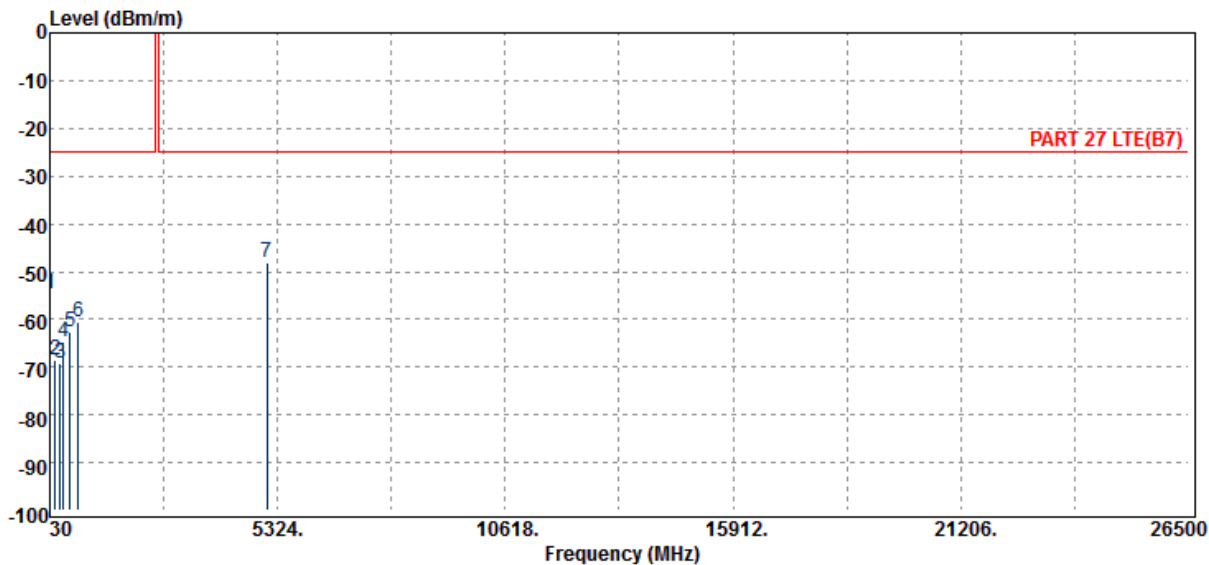
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-52.56	-22.09	-30.05	-0.45	0.03	-25.00	-27.56
134.76	-67.34	-57.08	-9.39	-0.96	0.08	-25.00	-42.34
282.20	-68.69	-64.93	-2.51	-1.39	0.14	-25.00	-43.69
418.00	-64.65	-61.29	-1.85	-1.70	0.18	-25.00	-39.65
485.90	-63.44	-59.37	-2.33	-1.84	0.10	-25.00	-38.44
691.54	-60.03	-56.71	-1.35	-2.22	0.24	-25.00	-35.03
5070.00	-49.46	-55.66	12.48	-6.75	0.46	-25.00	-24.46

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Operation Band	:LTE B7	Test Date	:2019-03-28
Fundamental Frequency	:2535 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH MID	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



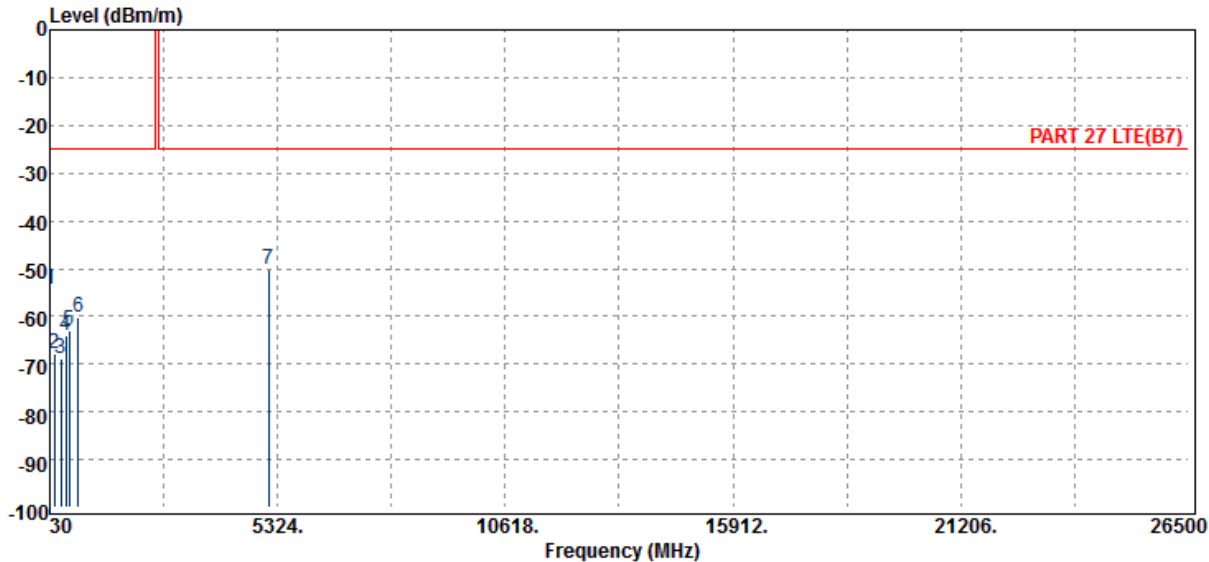
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-54.57	-24.10	-30.05	-0.45	0.03	-25.00	-29.57
146.40	-68.65	-60.24	-7.51	-1.00	0.09	-25.00	-43.65
277.35	-69.18	-65.34	-2.60	-1.38	0.15	-25.00	-44.18
353.01	-64.60	-61.44	-1.67	-1.55	0.07	-25.00	-39.60
492.69	-62.48	-58.56	-2.14	-1.85	0.07	-25.00	-37.48
691.54	-60.57	-57.25	-1.35	-2.22	0.24	-25.00	-35.57
5070.00	-48.26	-54.46	12.48	-6.75	0.46	-25.00	-23.26

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Operation Band	:LTE B7	Test Date	:2019-03-28
Fundamental Frequency	:2560 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH HIGH	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



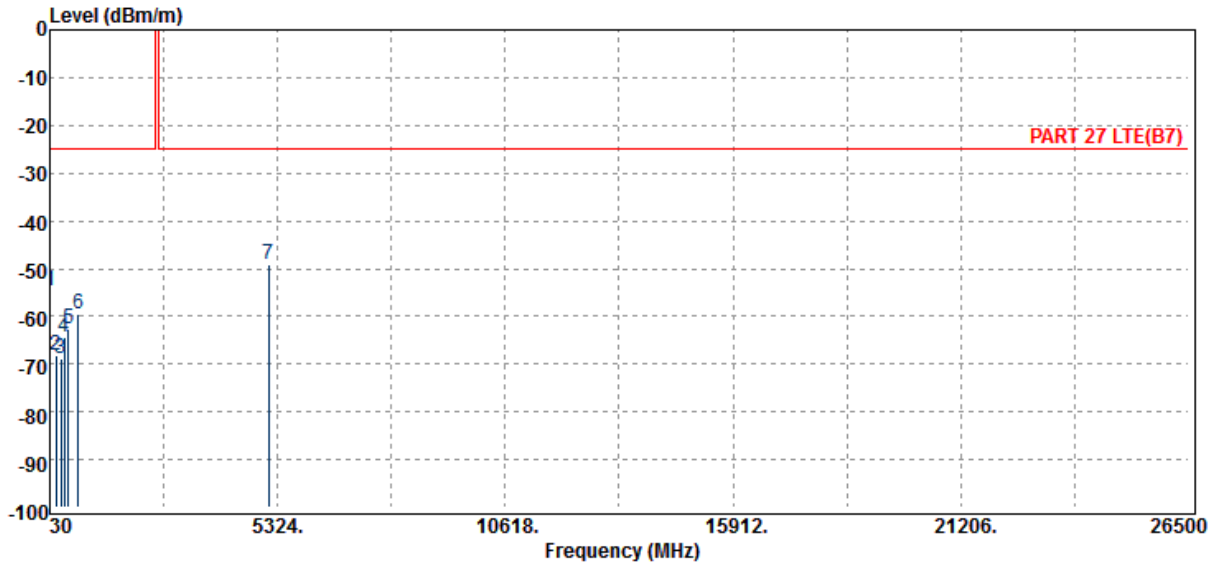
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-54.34	-23.87	-30.05	-0.45	0.03	-25.00	-29.34
141.55	-67.76	-58.60	-8.27	-0.98	0.09	-25.00	-42.76
284.14	-68.84	-65.11	-2.47	-1.39	0.13	-25.00	-43.84
401.51	-64.15	-60.93	-1.68	-1.66	0.13	-25.00	-39.15
478.14	-62.98	-58.89	-2.41	-1.82	0.14	-25.00	-37.98
692.51	-60.19	-56.86	-1.35	-2.22	0.24	-25.00	-35.19
5120.00	-50.26	-56.80	12.64	-6.75	0.65	-25.00	-25.26

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Operation Band	:LTE B7	Test Date	:2019-03-28
Fundamental Frequency	:2560 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH HIGH	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-54.74	-24.27	-30.05	-0.45	0.03	-25.00	-29.74
172.59	-68.08	-61.89	-5.19	-1.08	0.08	-25.00	-43.08
289.96	-68.81	-65.37	-2.15	-1.41	0.12	-25.00	-43.81
374.35	-64.45	-61.26	-1.66	-1.60	0.08	-25.00	-39.45
456.80	-62.66	-59.09	-2.05	-1.77	0.25	-25.00	-37.66
697.36	-59.66	-56.26	-1.40	-2.22	0.21	-25.00	-34.66
5120.00	-48.97	-55.51	12.64	-6.75	0.65	-25.00	-23.97

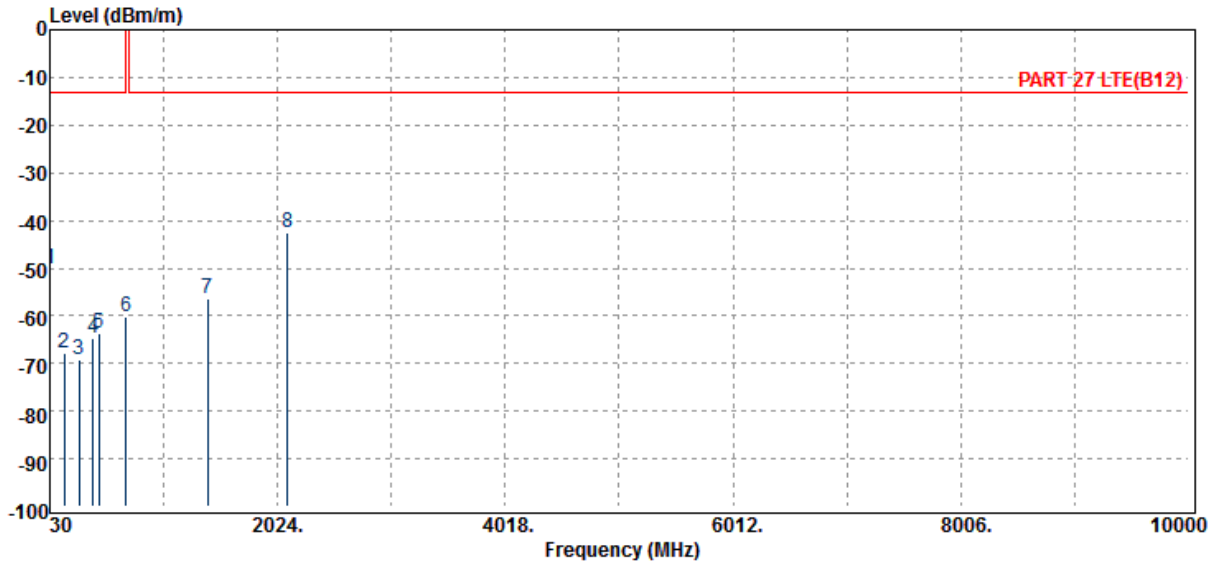
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Radiated Spurious Emission Measurement Result: LTE-Band 12 (The Worst Case)

Operation Band	:LTE B12	Test Date	:2019-03-28
Fundamental Frequency	:704 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH LOW	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



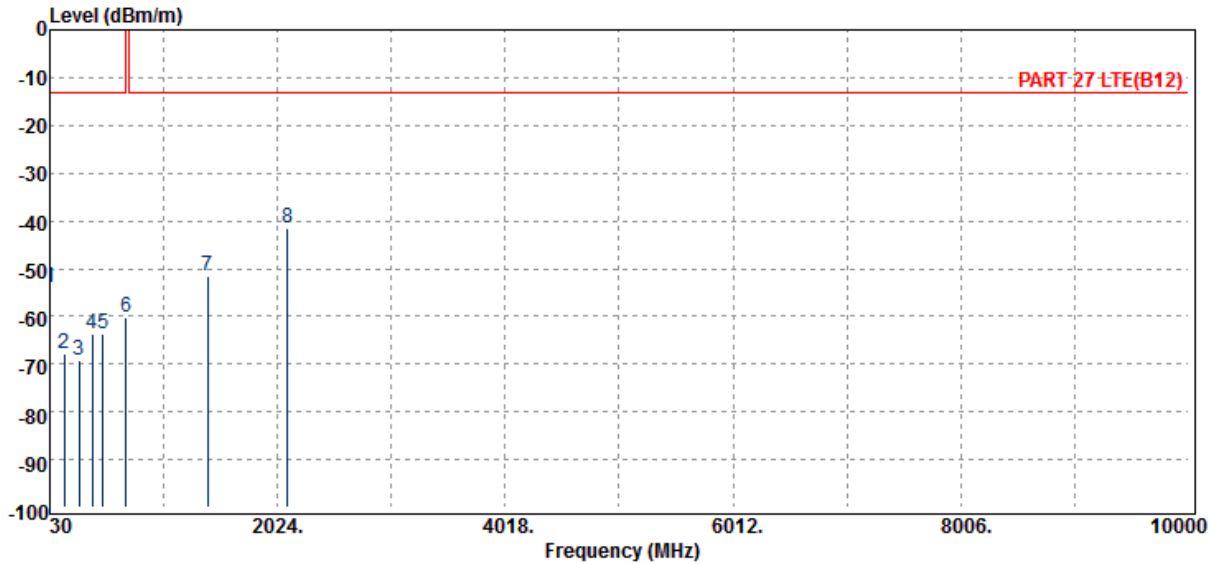
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-50.23	-19.77	-30.05	-0.45	0.04	-13.00	-37.23
153.19	-67.84	-59.99	-6.89	-1.02	0.06	-13.00	-54.84
285.11	-69.18	-65.62	-2.44	-1.40	0.27	-13.00	-56.18
411.21	-64.66	-61.46	-1.77	-1.68	0.26	-13.00	-51.66
461.65	-63.72	-60.06	-2.12	-1.78	0.24	-13.00	-50.72
694.45	-60.17	-56.60	-1.35	-2.22	0.00	-13.00	-47.17
1408.00	-56.38	-61.69	8.05	-3.25	0.51	-13.00	-43.38
2112.00	-42.54	-49.44	9.70	-4.09	1.29	-13.00	-29.54

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Operation Band	:LTE B12	Test Date	:2019-03-28
Fundamental Frequency	:704 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH LOW	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



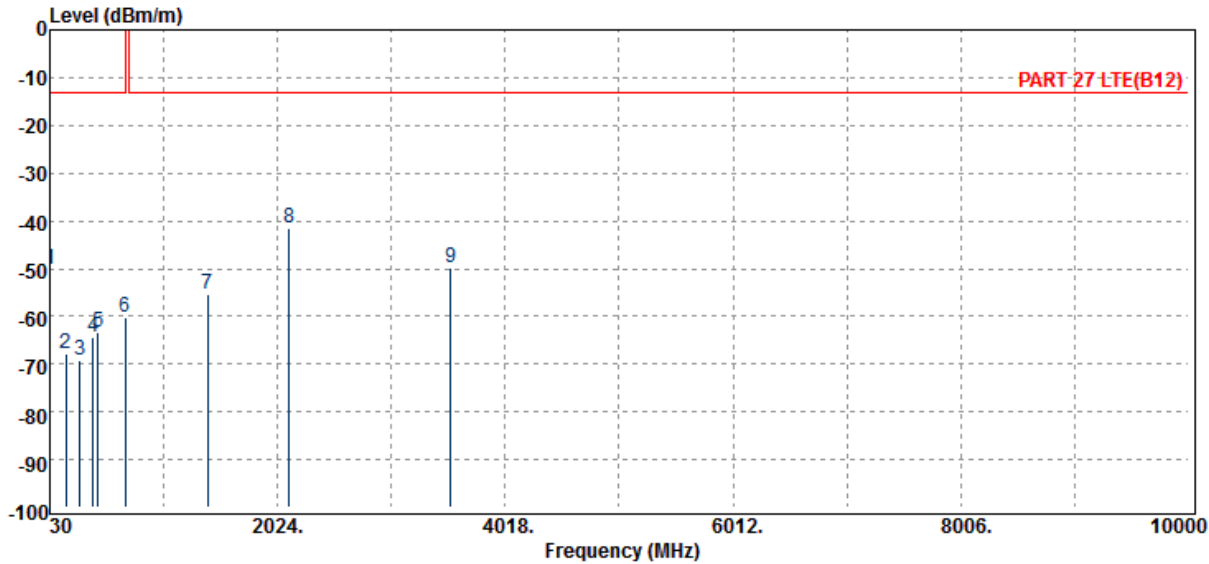
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-53.94	-23.48	-30.05	-0.45	0.04	-13.00	-40.94
153.19	-67.85	-60.00	-6.89	-1.02	0.06	-13.00	-54.85
285.11	-69.15	-65.58	-2.44	-1.40	0.27	-13.00	-56.15
403.45	-63.78	-60.65	-1.72	-1.67	0.26	-13.00	-50.78
492.69	-63.69	-59.92	-2.14	-1.85	0.23	-13.00	-50.69
696.39	-60.12	-56.52	-1.38	-2.22	0.00	-13.00	-47.12
1408.00	-51.66	-56.97	8.05	-3.25	0.51	-13.00	-38.66
2112.00	-41.45	-48.35	9.70	-4.09	1.29	-13.00	-28.45

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Operation Band	:LTE B12	Test Date	:2019-03-28
Fundamental Frequency	:707.5 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH MID	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-50.31	-19.85	-30.05	-0.45	0.04	-13.00	-37.31
172.59	-67.86	-61.74	-5.19	-1.08	0.15	-13.00	-54.86
293.84	-69.07	-65.82	-2.15	-1.42	0.32	-13.00	-56.07
411.21	-64.39	-61.19	-1.77	-1.68	0.26	-13.00	-51.39
453.89	-63.42	-59.85	-2.05	-1.77	0.25	-13.00	-50.42
692.51	-60.36	-56.80	-1.35	-2.22	0.00	-13.00	-47.36
1415.00	-55.29	-60.65	8.09	-3.26	0.53	-13.00	-42.29
2122.50	-41.61	-48.33	9.62	-4.11	1.20	-13.00	-28.61
3537.50	-49.98	-64.33	12.42	-5.60	7.51	-13.00	-36.98

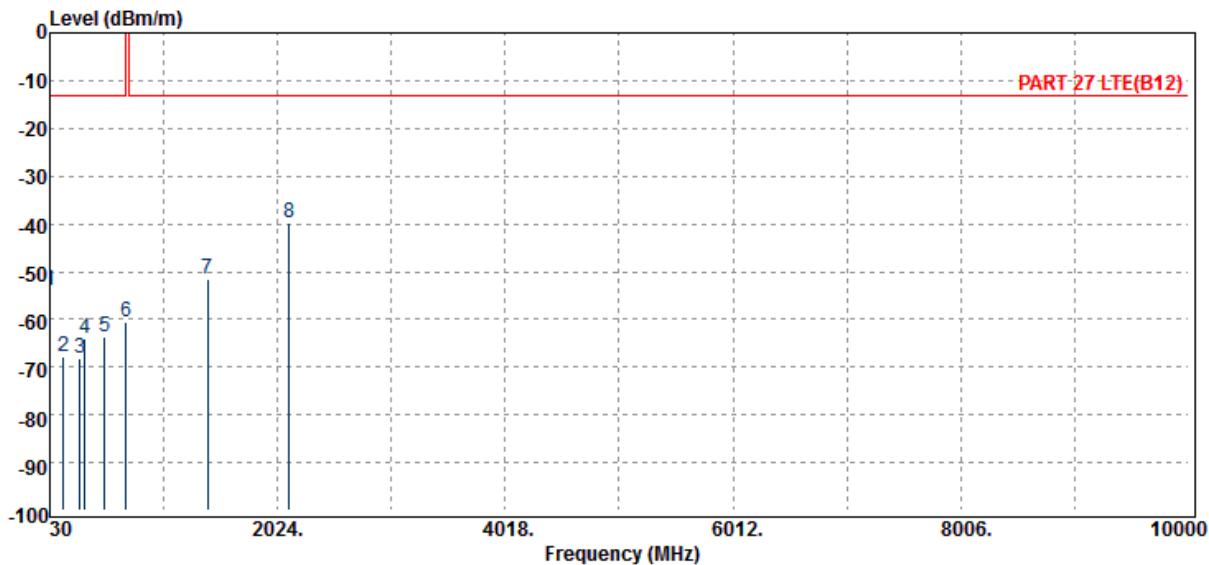
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Operation Band :LTE B12
Fundamental Frequency :707.5 MHz
Operation Mode :Tx CH MID
EUT Pol. :E2 Plane

Test Date :2019-03-28
Temp./Humi. :22 deg_C / 61 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



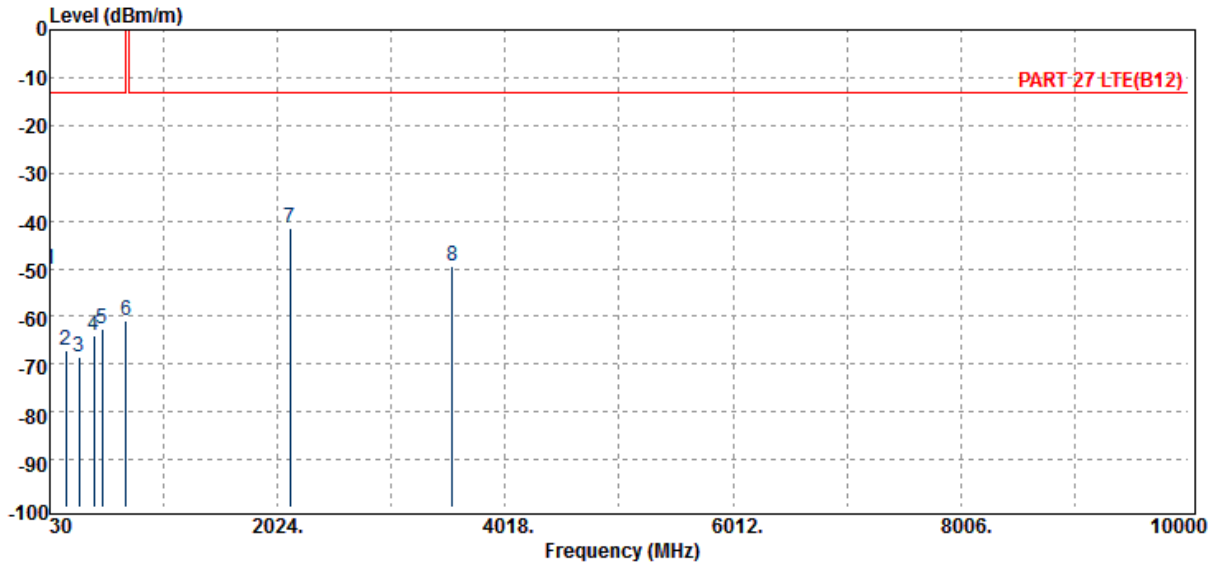
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-54.11	-23.65	-30.05	-0.45	0.04	-13.00	-41.11
151.25	-67.96	-59.96	-7.05	-1.01	0.05	-13.00	-54.96
291.90	-68.28	-65.03	-2.15	-1.41	0.31	-13.00	-55.28
338.46	-63.96	-61.38	-1.51	-1.52	0.45	-13.00	-50.96
508.21	-63.71	-60.32	-1.72	-1.89	0.22	-13.00	-50.71
694.45	-60.56	-56.99	-1.35	-2.22	0.00	-13.00	-47.56
1415.00	-51.52	-56.88	8.09	-3.26	0.53	-13.00	-38.52
2122.50	-39.76	-46.47	9.62	-4.11	1.20	-13.00	-26.76

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Operation Band	:LTE B12	Test Date	:2019-03-28
Fundamental Frequency	:711 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH HIGH	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



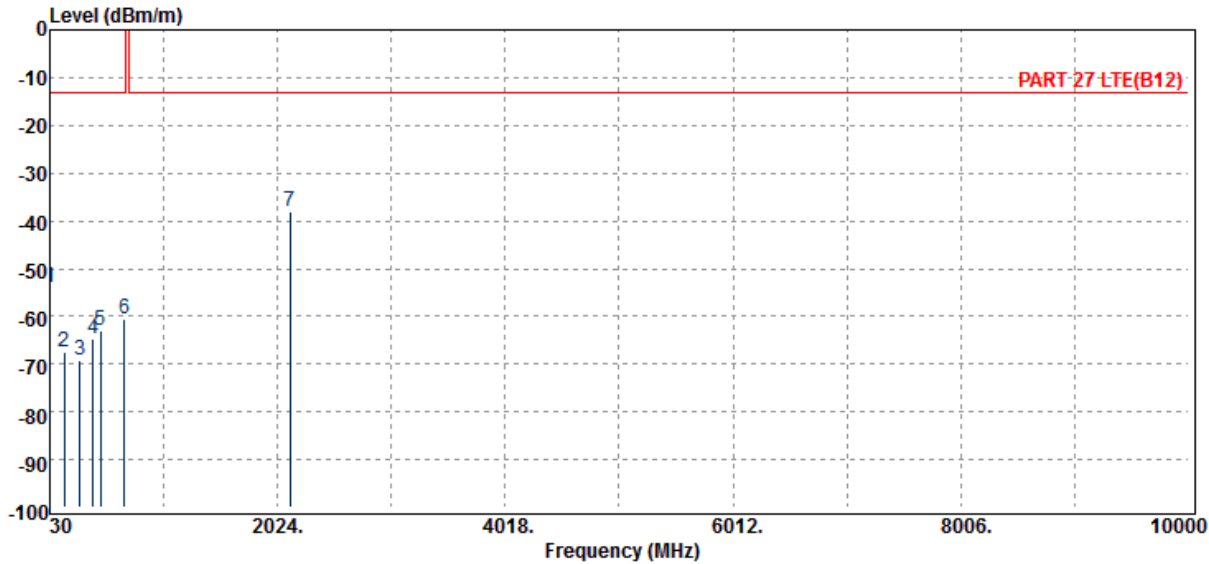
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-50.27	-19.81	-30.05	-0.45	0.04	-13.00	-37.27
170.65	-67.28	-60.95	-5.38	-1.08	0.14	-13.00	-54.28
287.05	-68.55	-65.11	-2.33	-1.40	0.28	-13.00	-55.55
416.06	-64.14	-60.86	-1.85	-1.69	0.26	-13.00	-51.14
487.84	-62.66	-58.76	-2.29	-1.84	0.23	-13.00	-49.66
697.36	-60.97	-57.35	-1.40	-2.22	0.00	-13.00	-47.97
2133.00	-41.51	-48.07	9.53	-4.12	1.14	-13.00	-28.51
3555.00	-49.56	-62.51	12.40	-5.61	6.17	-13.00	-36.56

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Operation Band	:LTE B12	Test Date	:2019-03-28
Fundamental Frequency	:711 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH HIGH	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-53.94	-23.48	-30.05	-0.45	0.04	-13.00	-40.94
154.16	-67.43	-59.66	-6.82	-1.02	0.07	-13.00	-54.43
294.81	-69.32	-66.07	-2.15	-1.42	0.32	-13.00	-56.32
410.24	-64.58	-61.40	-1.75	-1.68	0.26	-13.00	-51.58
474.26	-63.06	-59.14	-2.35	-1.81	0.24	-13.00	-50.06
682.81	-60.62	-57.16	-1.31	-2.20	0.05	-13.00	-47.62
2133.00	-38.14	-44.69	9.53	-4.12	1.14	-13.00	-25.14

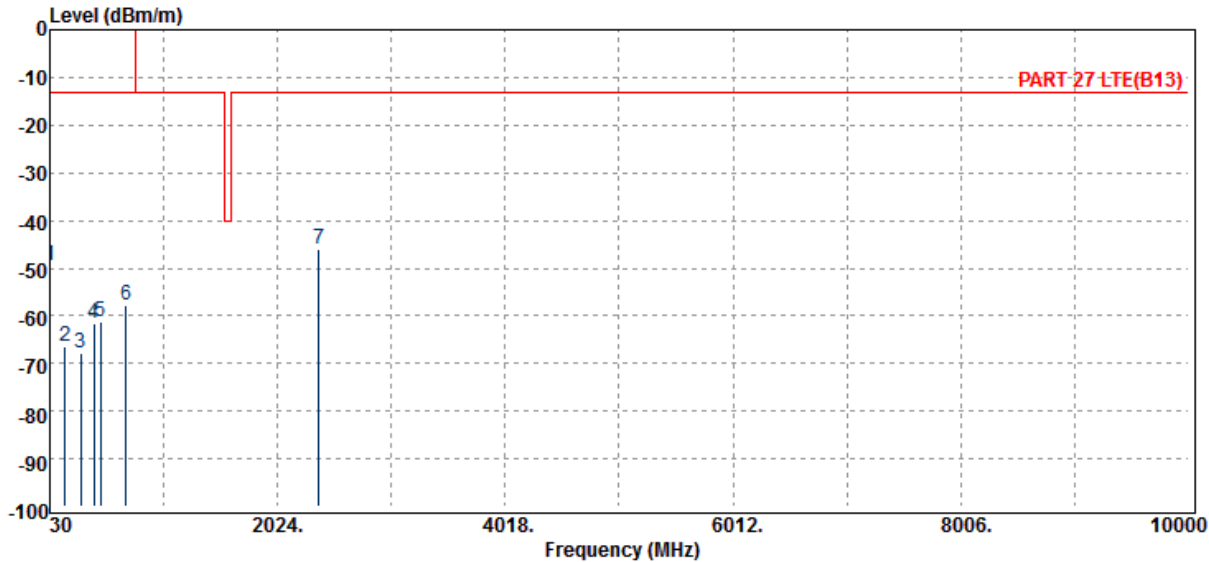
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Radiated Spurious Emission Measurement Result: LTE-Band 13 (The Worst Case)

Operation Band	:LTE B13	Test Date	:2019-03-28
Fundamental Frequency	:779.5 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH LOW	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



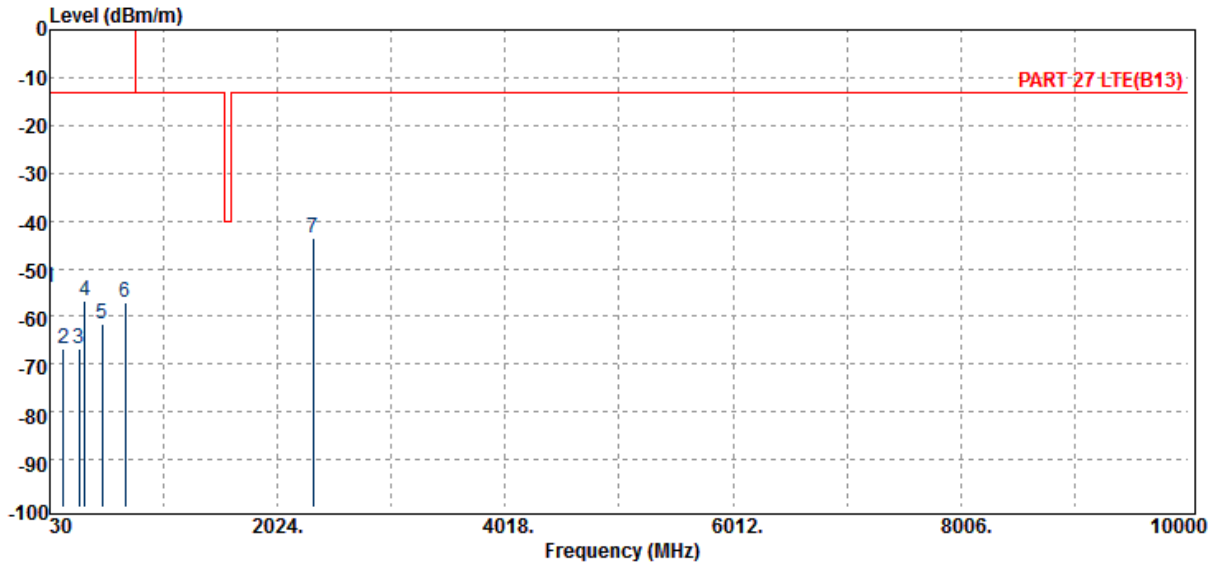
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-49.59	-19.22	-30.05	-0.45	0.13	-13.00	-36.59
160.95	-66.60	-59.50	-6.17	-1.05	0.12	-13.00	-53.60
299.66	-67.65	-64.35	-1.96	-1.43	0.10	-13.00	-54.65
415.09	-61.72	-58.44	-1.85	-1.69	0.25	-13.00	-48.72
474.26	-61.19	-57.21	-2.35	-1.81	0.18	-13.00	-48.19
694.45	-57.70	-55.05	-1.35	-2.22	0.92	-13.00	-44.70
2388.50	-46.10	-52.29	10.21	-4.41	0.40	-13.00	-33.10

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Operation Band	:LTE B13	Test Date	:2019-03-28
Fundamental Frequency	:779.5 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH LOW	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-54.01	-23.63	-30.05	-0.45	0.13	-13.00	-41.01
149.31	-66.76	-58.65	-7.22	-1.00	0.12	-13.00	-53.76
288.99	-66.89	-63.37	-2.21	-1.41	0.10	-13.00	-53.89
333.61	-56.92	-53.92	-1.65	-1.51	0.16	-13.00	-43.92
485.90	-61.52	-57.51	-2.33	-1.84	0.16	-13.00	-48.52
687.66	-56.99	-54.30	-1.35	-2.21	0.87	-13.00	-43.99
2338.50	-43.56	-49.42	9.81	-4.36	0.41	-13.00	-30.56

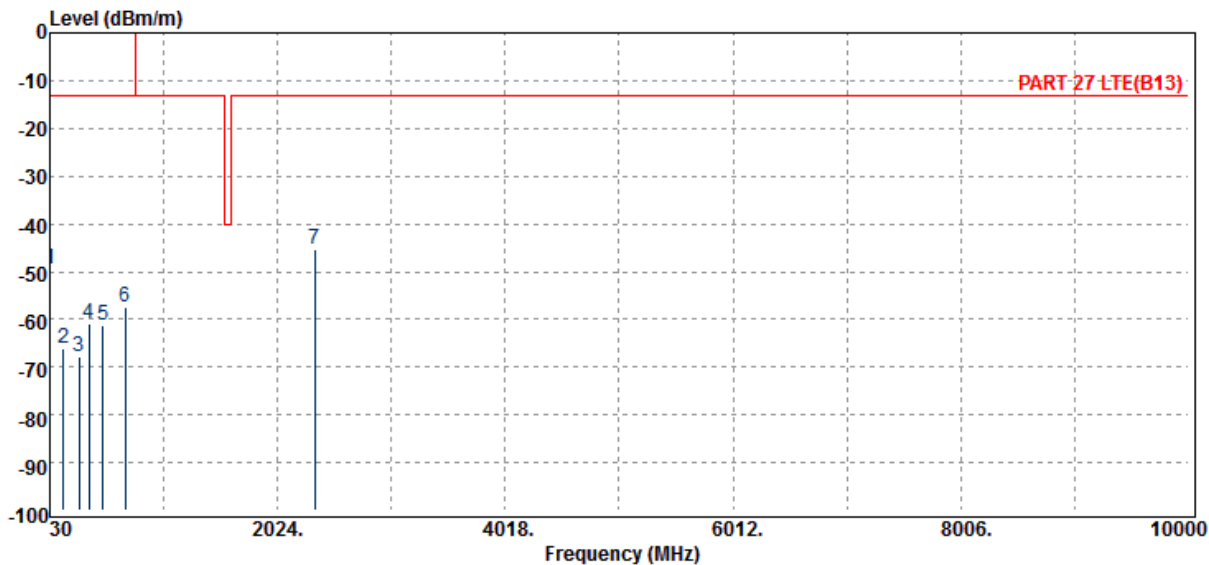
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Operation Band :LTE B13
Fundamental Frequency :782 MHz
Operation Mode :Tx CH MID
EUT Pol. :E2 Plane

Test Date :2019-03-28
Temp./Humi. :22 deg_C / 61 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-49.53	-19.16	-30.05	-0.45	0.13	-13.00	-36.53
146.40	-66.21	-57.82	-7.51	-1.00	0.12	-13.00	-53.21
284.14	-67.82	-64.06	-2.47	-1.39	0.10	-13.00	-54.82
371.44	-61.07	-57.98	-1.72	-1.60	0.23	-13.00	-48.07
492.69	-61.33	-57.49	-2.14	-1.85	0.16	-13.00	-48.33
692.51	-57.27	-54.61	-1.35	-2.22	0.90	-13.00	-44.27
2346.00	-45.43	-51.34	9.87	-4.36	0.41	-13.00	-32.43

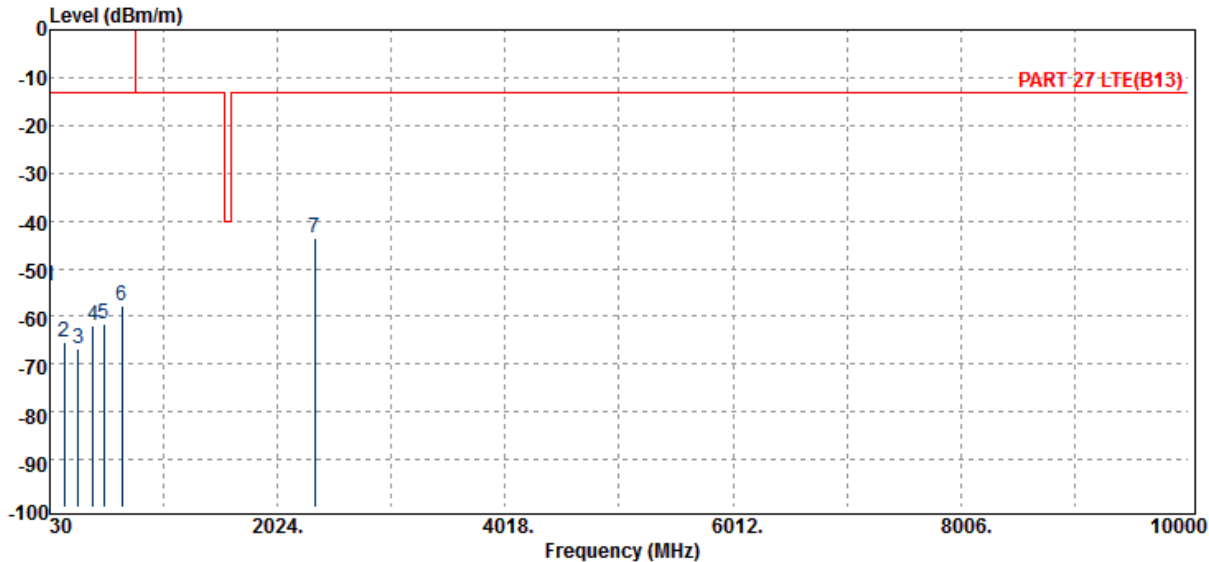
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Operation Band :LTE B13
Fundamental Frequency :782 MHz
Operation Mode :Tx CH MID
EUT Pol. :E2 Plane

Test Date :2019-03-28
Temp./Humi. :22 deg_C / 61 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



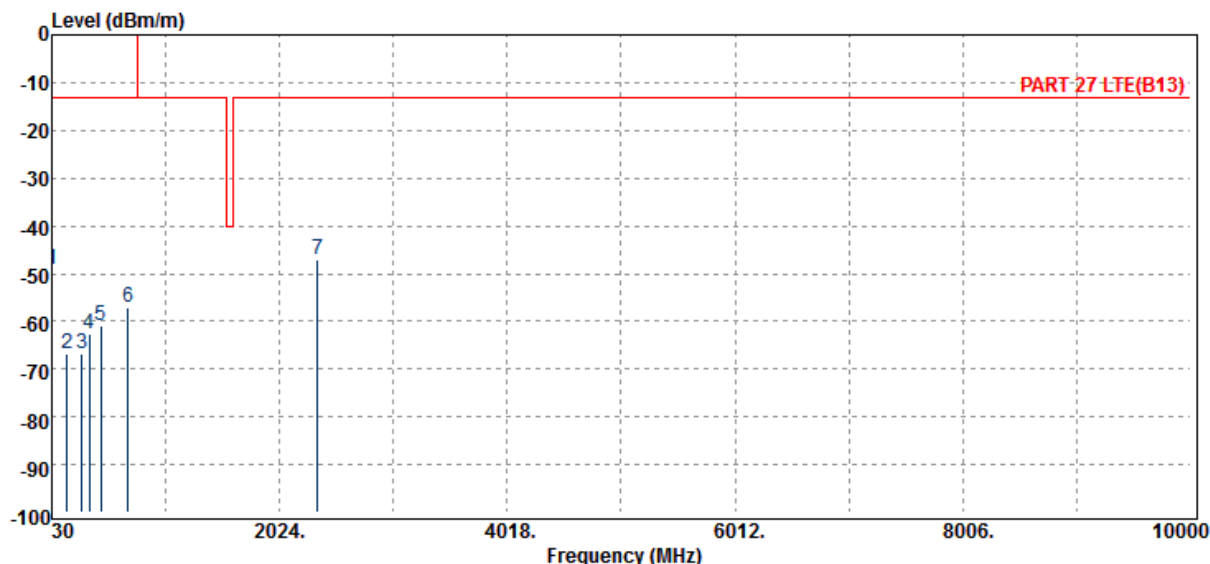
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-53.60	-23.23	-30.05	-0.45	0.13	-13.00	-40.60
158.04	-65.51	-58.15	-6.44	-1.04	0.12	-13.00	-52.51
280.26	-66.66	-62.83	-2.54	-1.38	0.10	-13.00	-53.66
406.36	-61.82	-58.66	-1.75	-1.67	0.27	-13.00	-48.82
505.30	-61.47	-57.90	-1.84	-1.88	0.15	-13.00	-48.47
663.41	-57.85	-54.93	-1.45	-2.17	0.70	-13.00	-44.85
2346.00	-43.57	-49.48	9.87	-4.36	0.41	-13.00	-30.57

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Operation Band	:LTE B13	Test Date	:2019-03-28
Fundamental Frequency	:784.5 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH HIGH	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



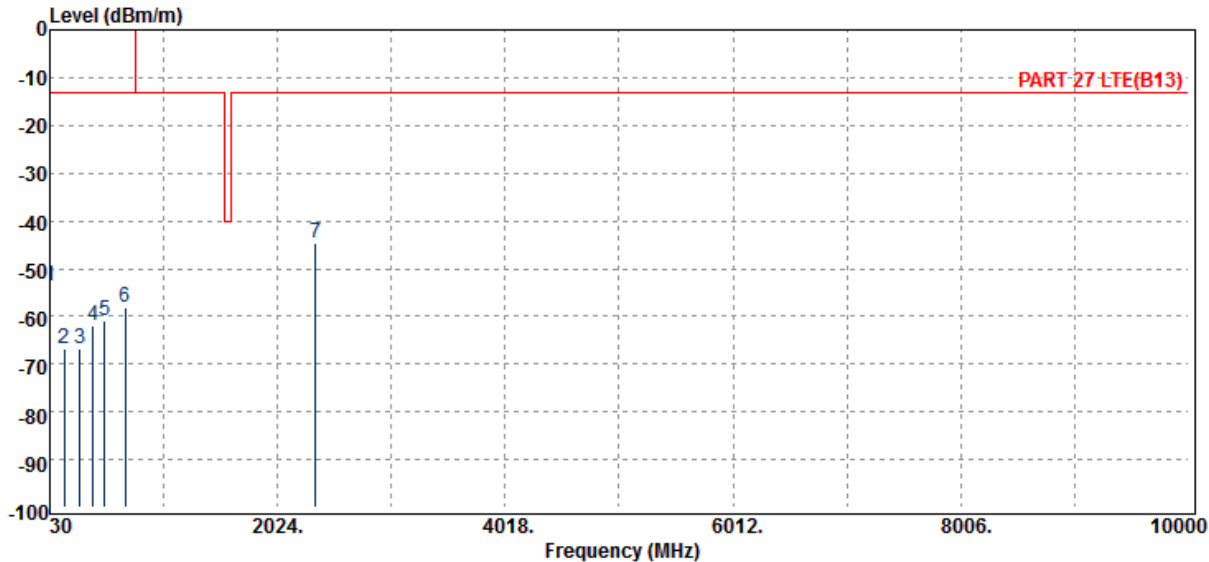
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-49.04	-18.67	-30.05	-0.45	0.13	-13.00	-36.04
165.80	-66.91	-60.19	-5.79	-1.06	0.12	-13.00	-53.91
289.96	-66.72	-63.26	-2.15	-1.41	0.10	-13.00	-53.72
361.74	-62.79	-59.61	-1.82	-1.58	0.21	-13.00	-49.79
461.65	-60.78	-57.07	-2.12	-1.78	0.19	-13.00	-47.78
694.45	-57.07	-54.41	-1.35	-2.22	0.92	-13.00	-44.07
2353.50	-46.93	-52.89	9.93	-4.37	0.41	-13.00	-33.93

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Operation Band	:LTE B13	Test Date	:2019-03-28
Fundamental Frequency	:784.5 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH HIGH	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-53.63	-23.26	-30.05	-0.45	0.13	-13.00	-40.63
154.16	-66.72	-59.00	-6.82	-1.02	0.12	-13.00	-53.72
294.81	-66.83	-63.36	-2.15	-1.42	0.10	-13.00	-53.83
408.30	-61.92	-58.76	-1.75	-1.68	0.26	-13.00	-48.92
512.09	-60.90	-57.60	-1.57	-1.90	0.16	-13.00	-47.90
689.60	-58.11	-55.43	-1.35	-2.21	0.88	-13.00	-45.11
2353.50	-44.75	-50.71	9.93	-4.37	0.41	-13.00	-31.75

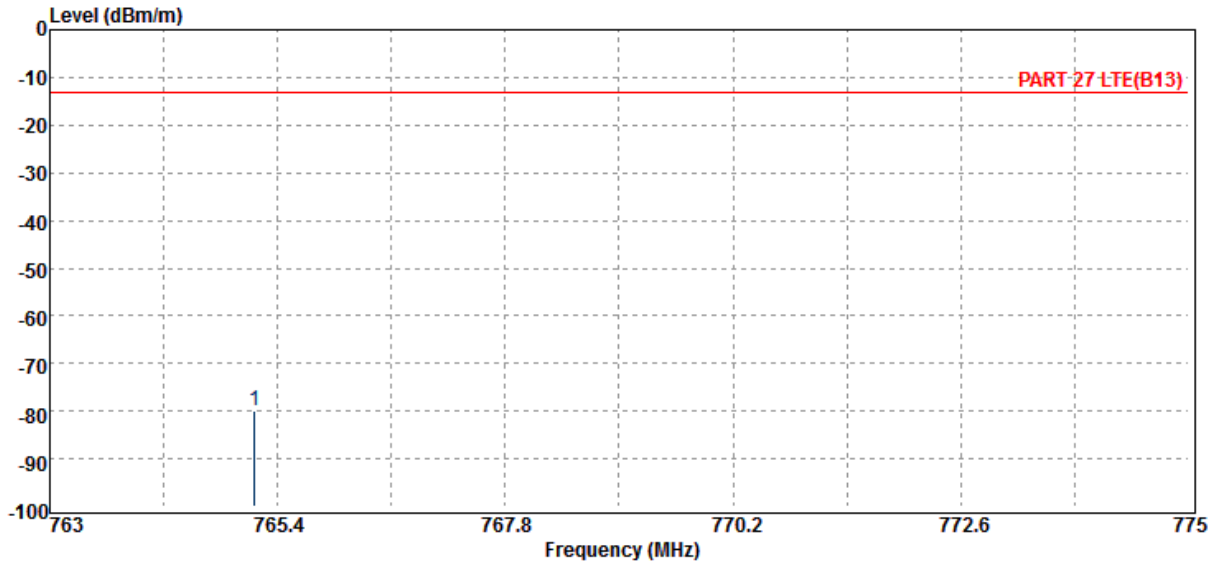
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Radiated Spurious Emission Measurement Result: LTE-Band 13 (763~775MHz)

Operation Band	:LTE B13	Test Date	:2019-03-28
Fundamental Frequency	:779.5 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH LOW	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



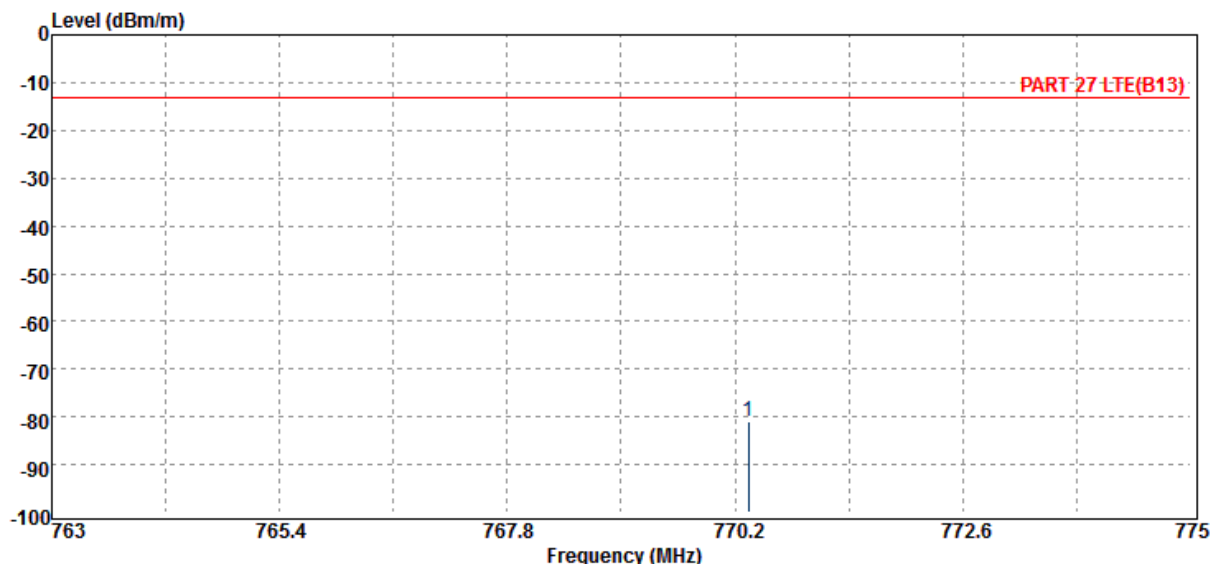
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
765.16	-79.89	-76.22	-1.35	-2.33	0.00	-13.00	-66.89

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Operation Band	:LTE B13	Test Date	:2019-03-28
Fundamental Frequency	:779.5 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH LOW	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



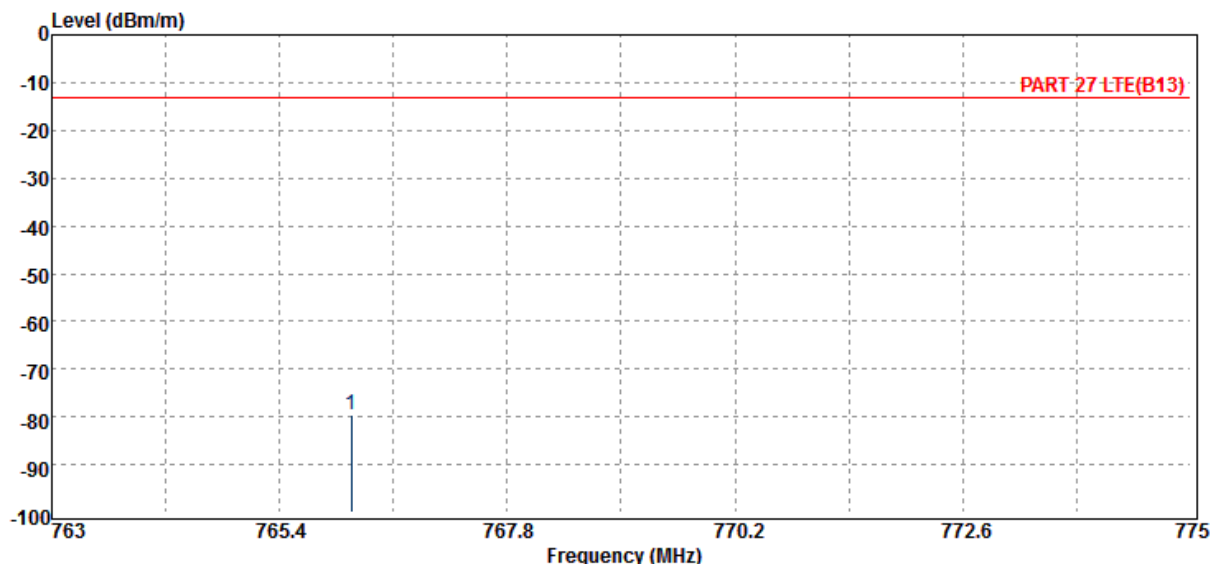
Freq.	ERP/EIRP	SG	Antenna	Cable	Filter	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBd/dBi	Loss dB	dB	dBm	dB
770.34	-80.96	-77.27	-1.36	-2.33	0.00	-13.00	-67.96

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Operation Band	:LTE B13	Test Date	:2019-03-28
Fundamental Frequency	:782 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH MID	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



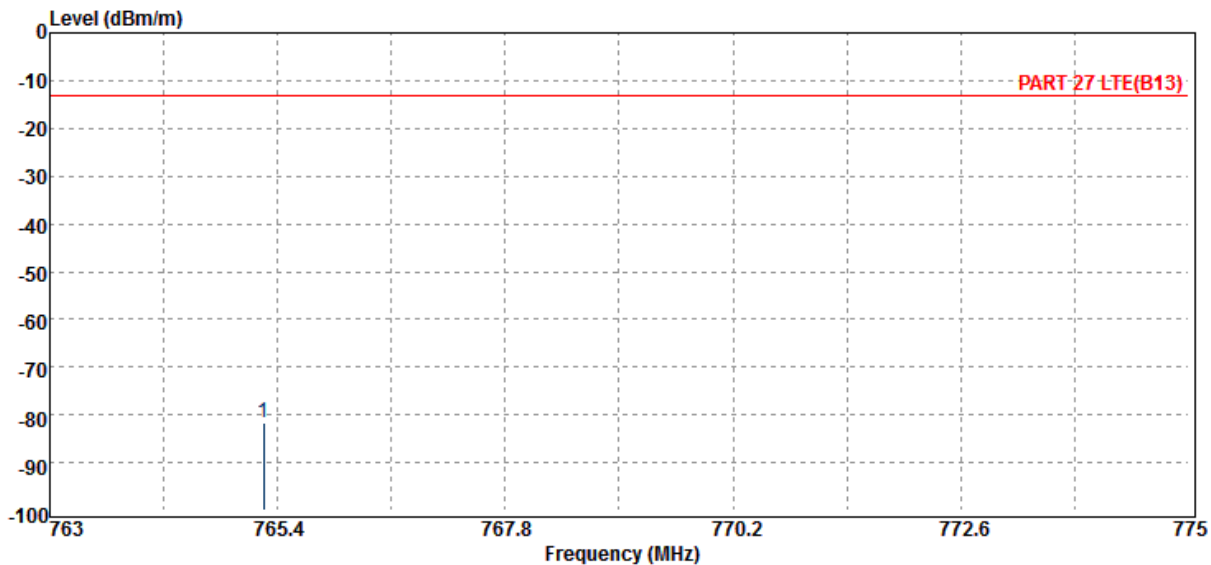
Freq.	ERP/EIRP	SG	Antenna	Cable	Filter	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBd/dBi	Loss dB	dB	dBm	dB
766.16	-79.54	-75.86	-1.35	-2.33	0.00	-13.00	-66.54

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Operation Band	:LTE B13	Test Date	:2019-03-28
Fundamental Frequency	:782 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH MID	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



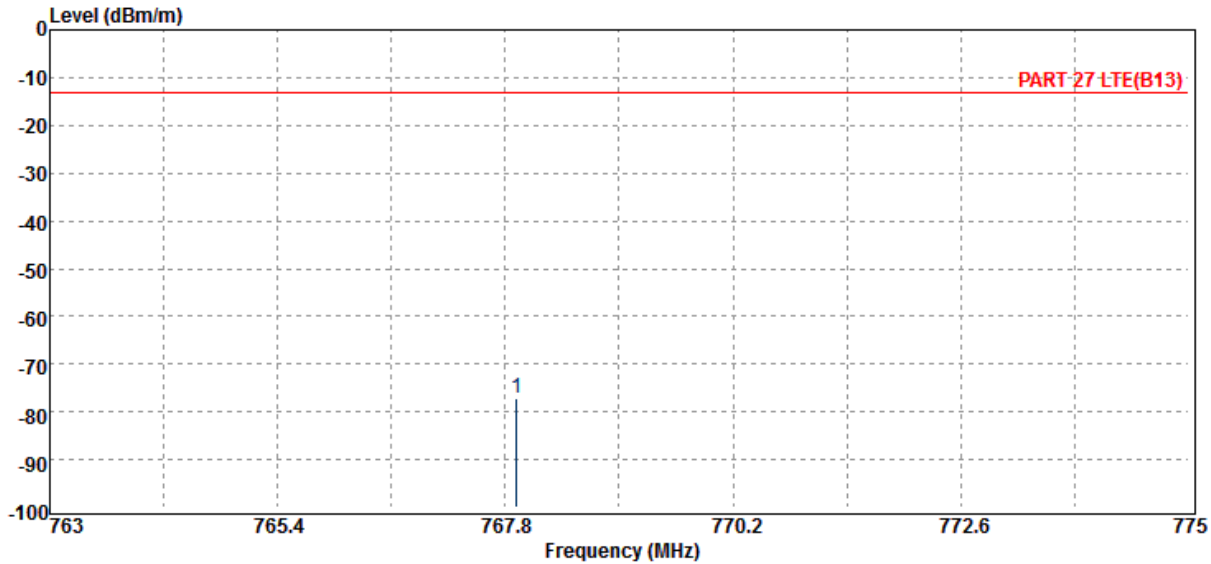
Freq.	ERP/EIRP	SG	Antenna	Cable	Filter	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBd/dBi	Loss dB	dB	dBm	dB
765.26	-81.62	-77.94	-1.35	-2.33	0.00	-13.00	-68.62

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Operation Band	:LTE B13	Test Date	:2019-03-28
Fundamental Frequency	:784.5 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH HIGH	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



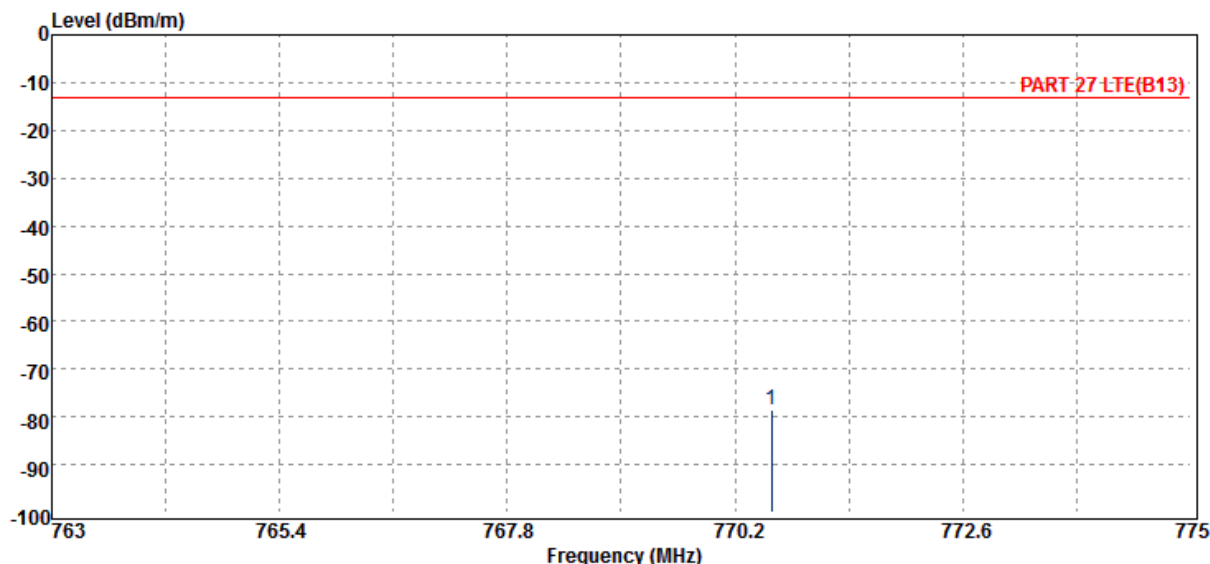
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
767.92	-77.18	-73.50	-1.35	-2.33	0.00	-13.00	-64.18

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Operation Band	:LTE B13	Test Date	:2019-03-28
Fundamental Frequency	:784.5 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH HIGH	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
770.58	-78.55	-74.85	-1.36	-2.33	0.00	-13.00	-65.55

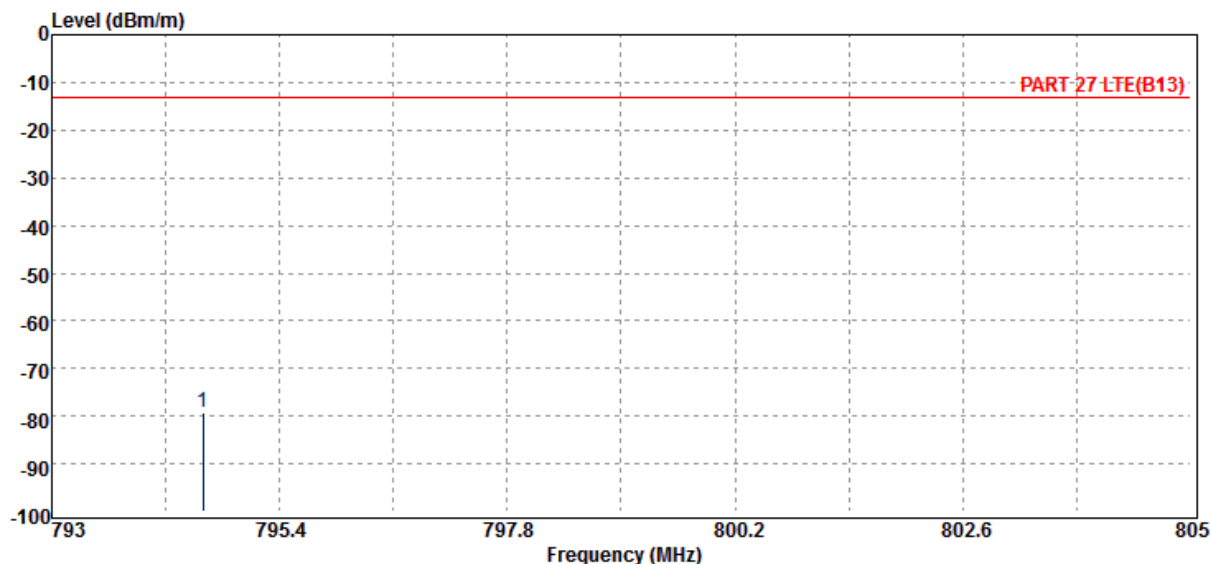
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Radiated Spurious Emission Measurement Result: LTE-Band 13 (793~805MHz)

Operation Band	:LTE B13	Test Date	:2019-03-28
Fundamental Frequency	:779.5 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH LOW	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



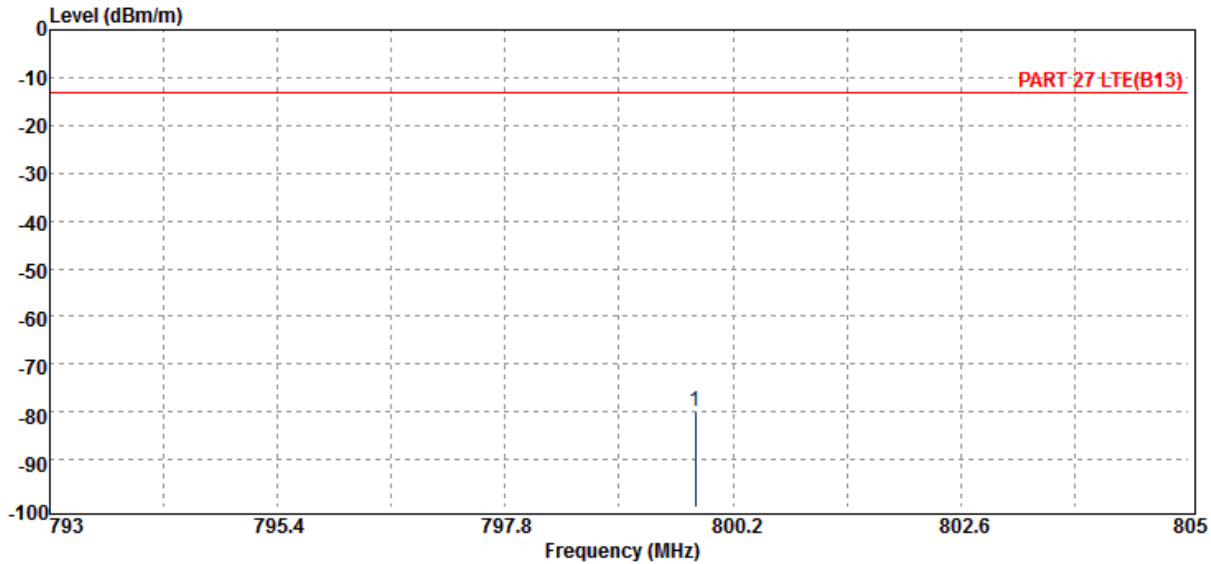
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
794.60	-79.23	-75.62	-1.25	-2.36	0.00	-13.00	-66.23

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Operation Band	:LTE B13	Test Date	:2019-03-28
Fundamental Frequency	:779.5 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH LOW	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



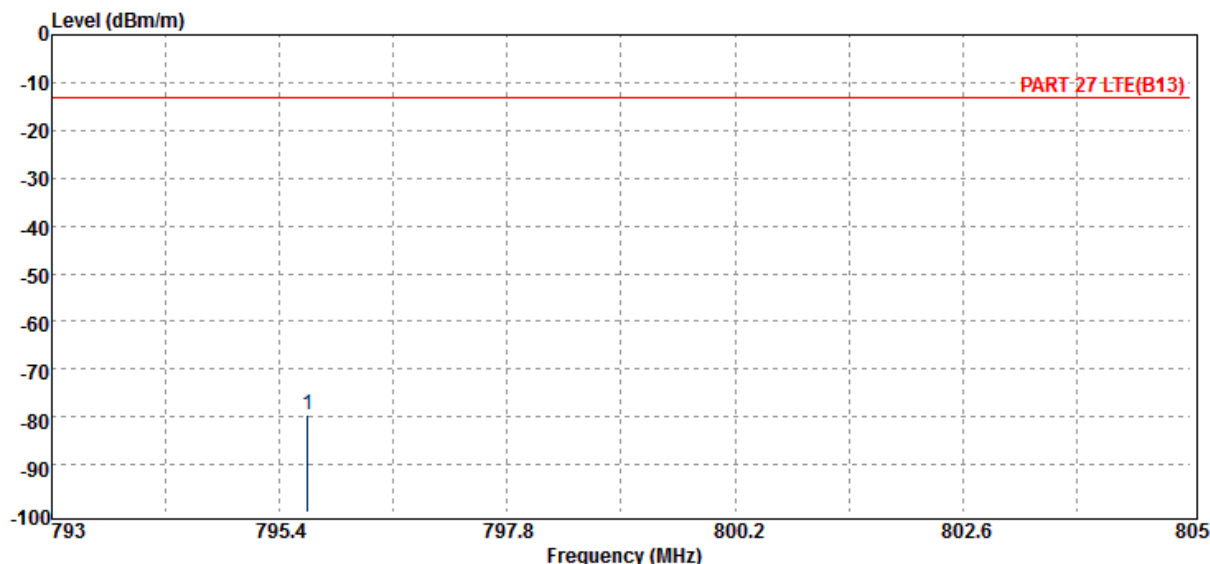
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
799.80	-80.00	-76.37	-1.25	-2.38	0.00	-13.00	-67.00

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Operation Band	:LTE B13	Test Date	:2019-03-28
Fundamental Frequency	:782 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH MID	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



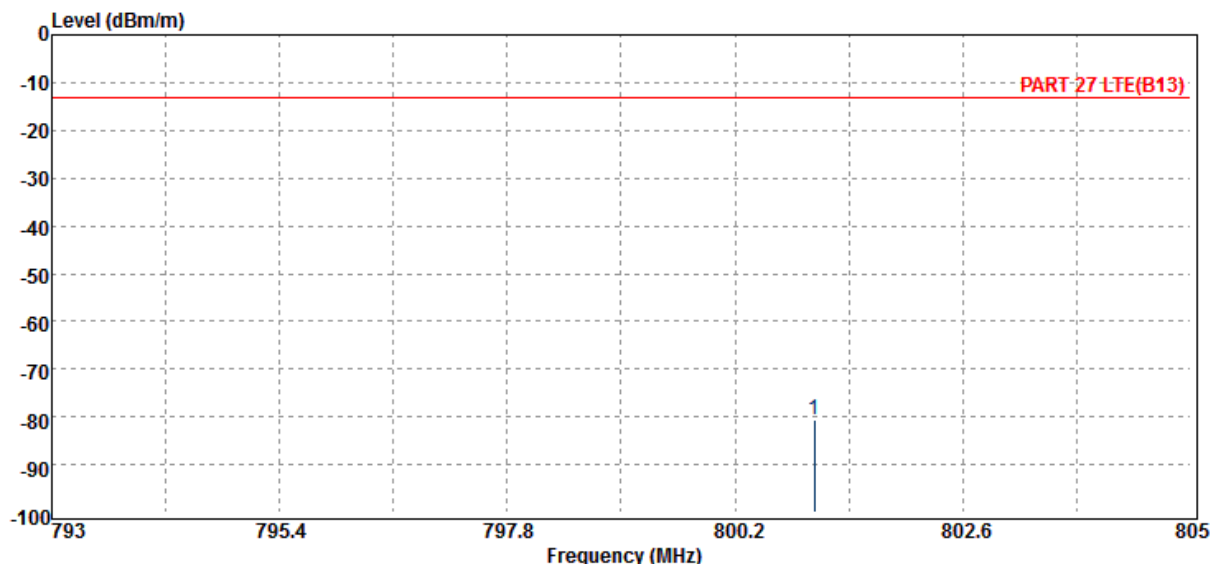
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
795.70	-79.44	-75.82	-1.25	-2.37	0.00	-13.00	-66.44

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Operation Band	:LTE B13	Test Date	:2019-03-28
Fundamental Frequency	:782 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH MID	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



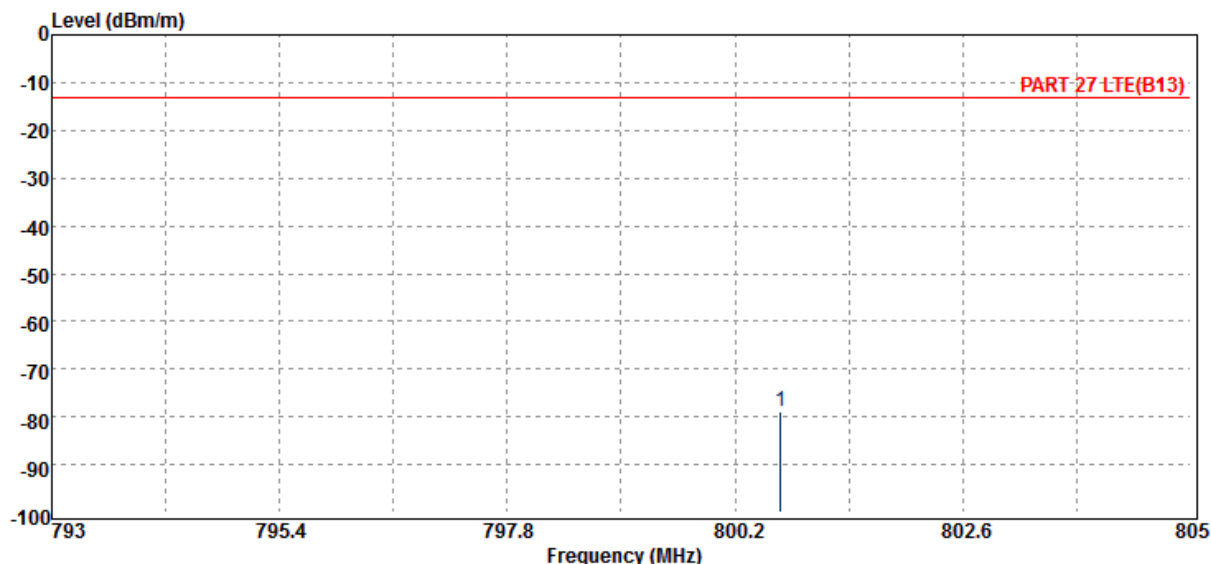
Freq.	ERP/EIRP	SG	Antenna	Cable	Filter	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBd/dBi	Loss dB	dB	dBm	dB
801.04	-80.62	-76.95	-1.29	-2.38	0.00	-13.00	-67.62

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Operation Band	:LTE B13	Test Date	:2019-03-28
Fundamental Frequency	:784.5 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH HIGH	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



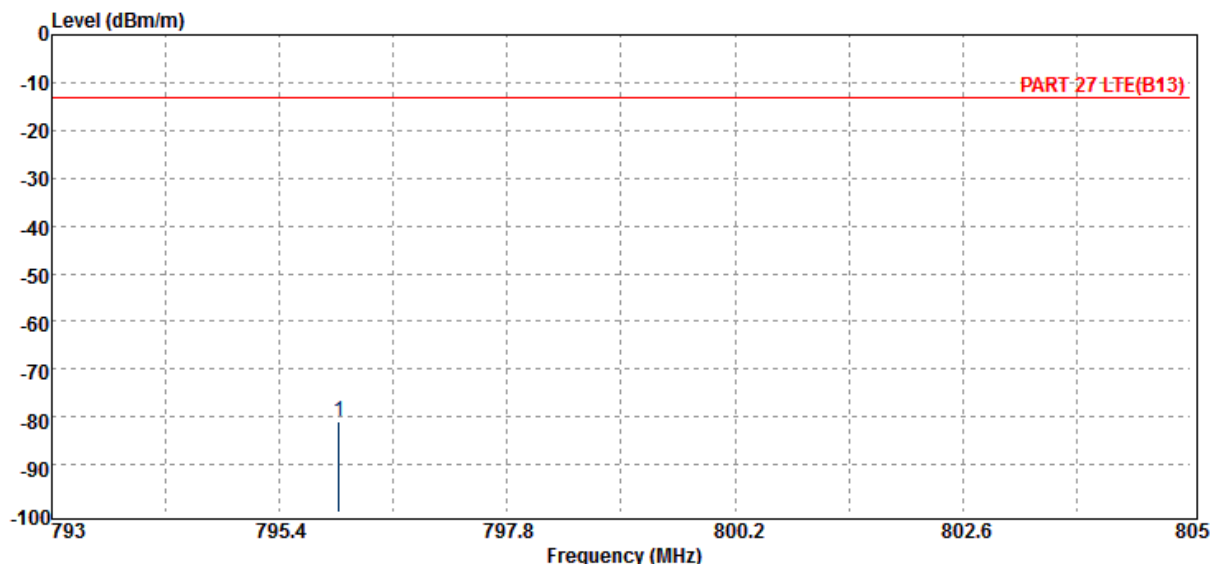
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
800.68	-78.98	-75.32	-1.28	-2.38	0.00	-13.00	-65.98

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Operation Band	:LTE B13	Test Date	:2019-03-28
Fundamental Frequency	:784.5 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH HIGH	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
796.02	-80.83	-77.22	-1.25	-2.37	0.00	-13.00	-67.83

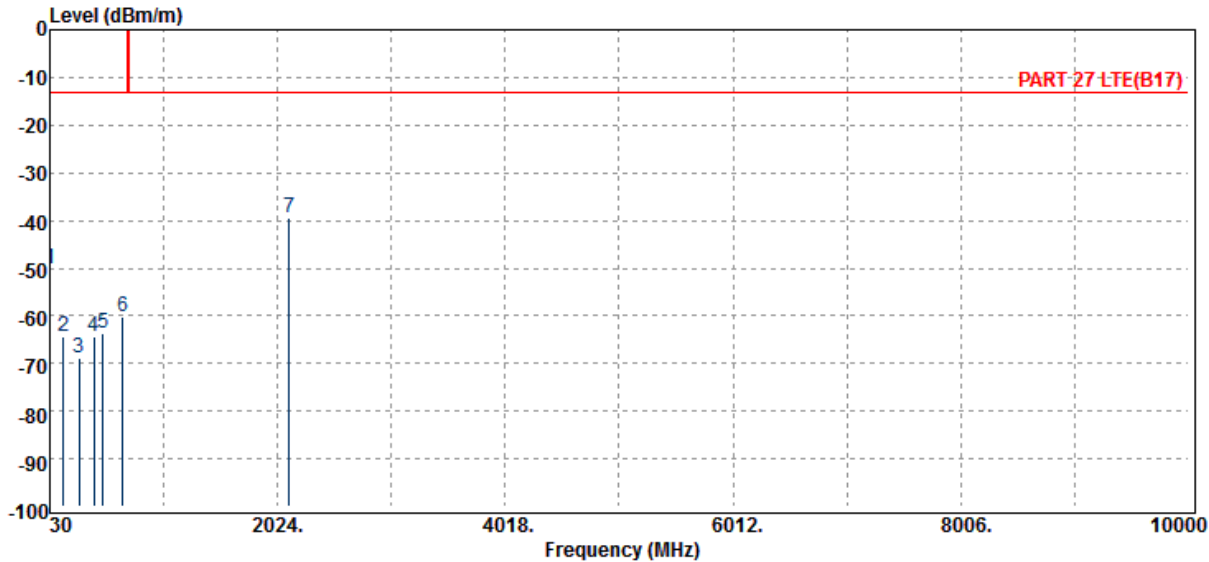
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Radiated Spurious Emission Measurement Result: LTE-Band 17 (The Worst Case)

Operation Band	:LTE B17	Test Date	:2019-03-28
Fundamental Frequency	:709 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH LOW	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



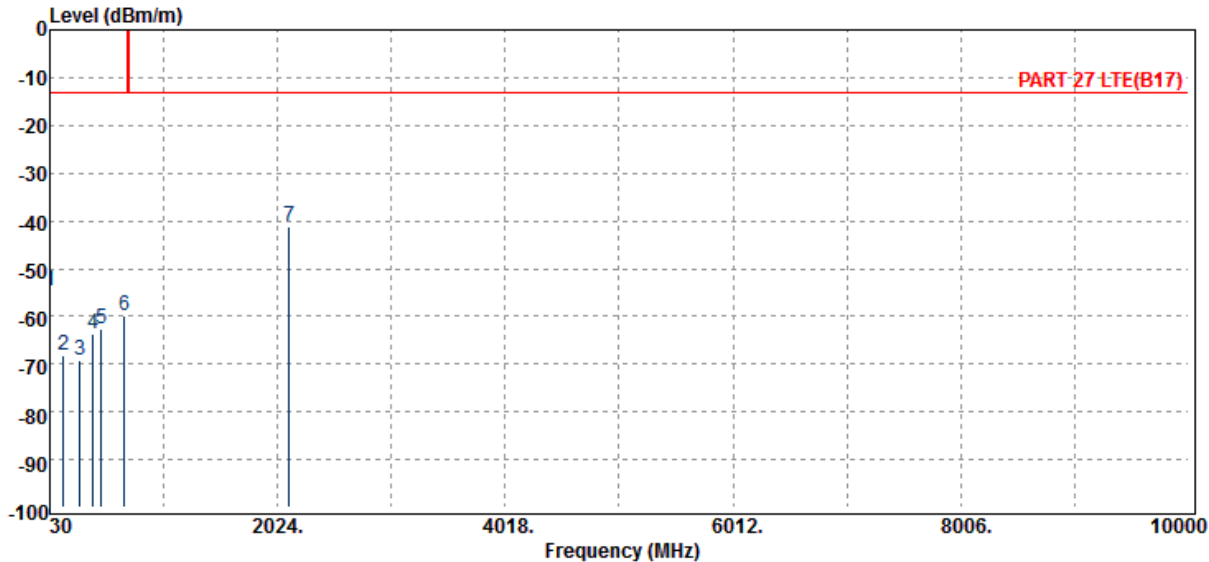
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-50.08	-19.71	-30.05	-0.45	0.13	-13.00	-37.08
146.40	-64.23	-55.85	-7.51	-1.00	0.12	-13.00	-51.23
287.05	-68.97	-65.34	-2.33	-1.40	0.10	-13.00	-55.97
413.15	-64.37	-61.13	-1.81	-1.69	0.26	-13.00	-51.37
495.60	-63.66	-59.91	-2.04	-1.86	0.15	-13.00	-50.66
668.26	-60.10	-57.21	-1.45	-2.18	0.73	-13.00	-47.10
2127.00	-39.37	-46.01	9.58	-4.11	1.16	-13.00	-26.37

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Operation Band	:LTE B17	Test Date	:2019-03-28
Fundamental Frequency	:709 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH LOW	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



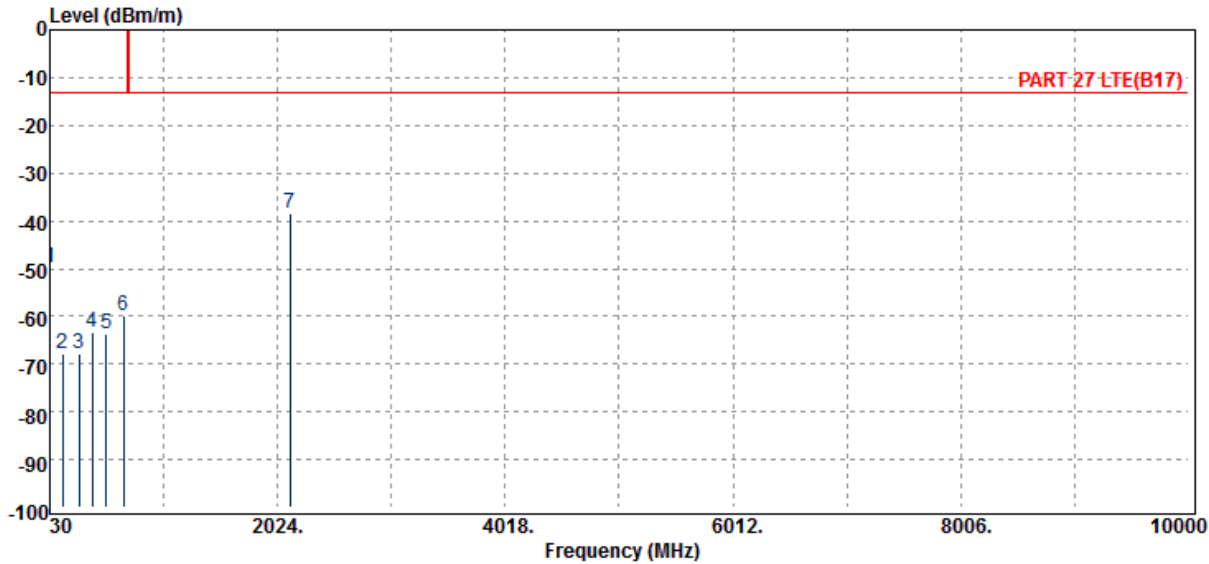
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-54.60	-24.23	-30.05	-0.45	0.13	-13.00	-41.60
151.25	-68.11	-60.17	-7.05	-1.01	0.12	-13.00	-55.11
294.81	-69.38	-65.90	-2.15	-1.42	0.10	-13.00	-56.38
411.21	-63.76	-60.57	-1.77	-1.68	0.26	-13.00	-50.76
479.11	-62.72	-58.63	-2.43	-1.82	0.17	-13.00	-49.72
682.81	-59.70	-57.03	-1.31	-2.20	0.84	-13.00	-46.70
2127.00	-41.15	-47.78	9.58	-4.11	1.16	-13.00	-28.15

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Operation Band	:LTE B17	Test Date	:2019-03-28
Fundamental Frequency	:710 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH MID	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



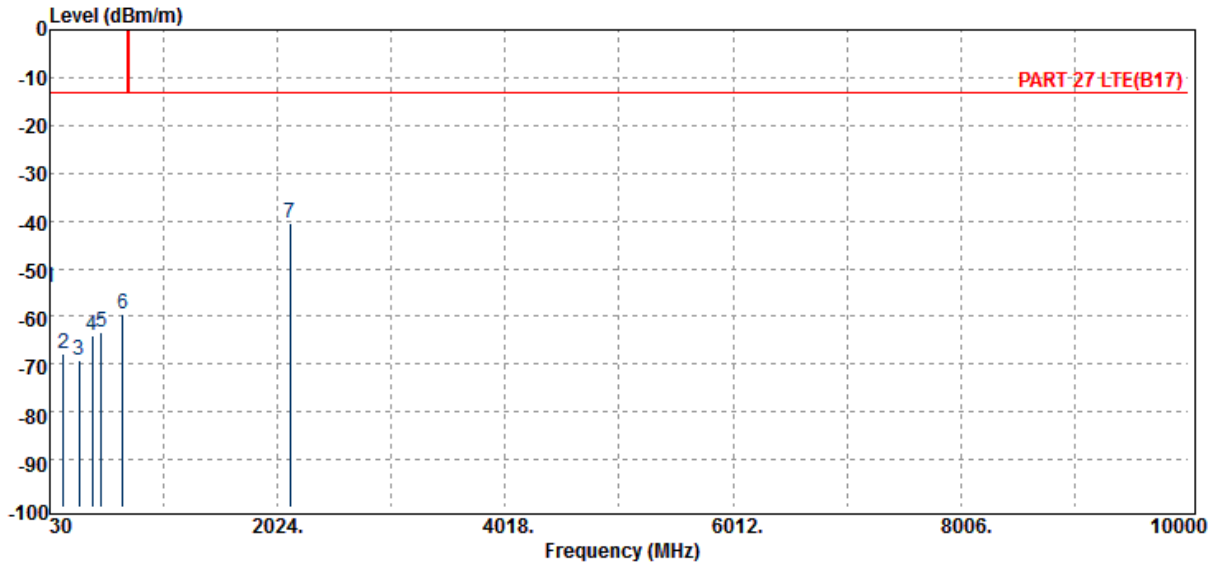
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-49.97	-19.60	-30.05	-0.45	0.13	-13.00	-36.97
143.49	-67.74	-58.96	-7.92	-0.99	0.12	-13.00	-54.74
288.99	-67.93	-64.41	-2.21	-1.41	0.10	-13.00	-54.93
400.54	-63.43	-60.39	-1.66	-1.66	0.27	-13.00	-50.43
521.79	-63.63	-60.46	-1.41	-1.91	0.16	-13.00	-50.63
672.14	-60.01	-57.17	-1.41	-2.19	0.76	-13.00	-47.01
2130.00	-38.35	-44.93	9.56	-4.12	1.13	-13.00	-25.35

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Operation Band	:LTE B17	Test Date	:2019-03-28
Fundamental Frequency	:710 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH MID	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



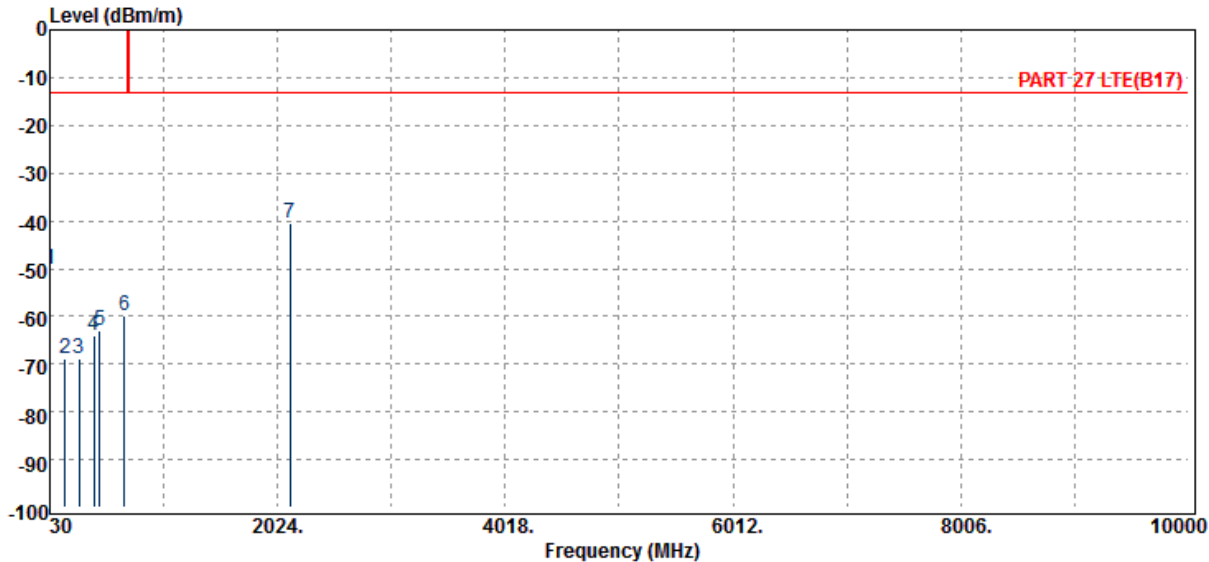
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-54.01	-23.64	-30.05	-0.45	0.13	-13.00	-41.01
151.25	-67.83	-59.89	-7.05	-1.01	0.12	-13.00	-54.83
288.99	-69.08	-65.56	-2.21	-1.41	0.10	-13.00	-56.08
398.60	-63.94	-60.93	-1.62	-1.66	0.27	-13.00	-50.94
482.99	-63.33	-59.28	-2.39	-1.83	0.17	-13.00	-50.33
665.35	-59.66	-56.75	-1.45	-2.17	0.71	-13.00	-46.66
2130.00	-40.59	-47.16	9.56	-4.12	1.13	-13.00	-27.59

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Operation Band	:LTE B17	Test Date	:2019-03-28
Fundamental Frequency	:711 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH HIGH	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



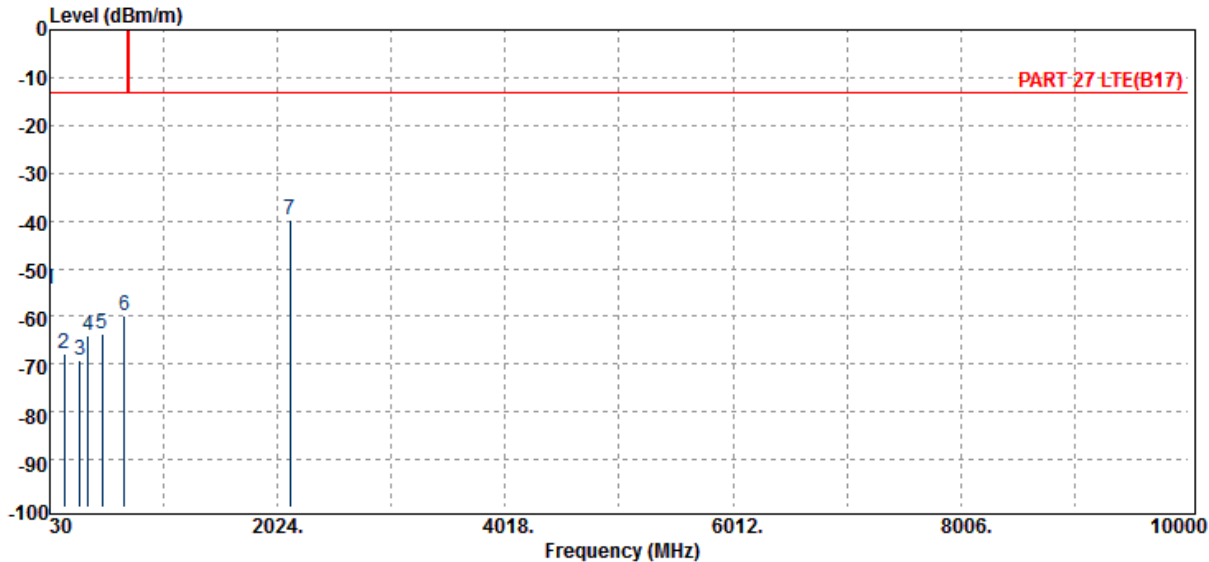
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-50.18	-19.81	-30.05	-0.45	0.13	-13.00	-37.18
162.89	-68.69	-61.74	-6.02	-1.05	0.12	-13.00	-55.69
287.05	-68.93	-65.31	-2.33	-1.40	0.10	-13.00	-55.93
413.15	-64.08	-60.84	-1.81	-1.69	0.26	-13.00	-51.08
466.50	-62.81	-58.92	-2.28	-1.79	0.19	-13.00	-49.81
682.81	-59.96	-57.29	-1.31	-2.20	0.84	-13.00	-46.96
2133.00	-40.60	-47.16	9.53	-4.12	1.14	-13.00	-27.60

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Operation Band	:LTE B17	Test Date	:2019-03-28
Fundamental Frequency	:711 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH HIGH	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-54.29	-23.91	-30.05	-0.45	0.13	-13.00	-41.29
159.01	-67.73	-60.46	-6.35	-1.04	0.12	-13.00	-54.73
293.84	-69.05	-65.59	-2.15	-1.42	0.10	-13.00	-56.05
366.59	-64.00	-60.88	-1.75	-1.59	0.22	-13.00	-51.00
488.81	-63.60	-59.64	-2.27	-1.84	0.16	-13.00	-50.60
684.75	-59.78	-57.08	-1.35	-2.21	0.85	-13.00	-46.78
2133.00	-39.90	-46.45	9.53	-4.12	1.14	-13.00	-26.90

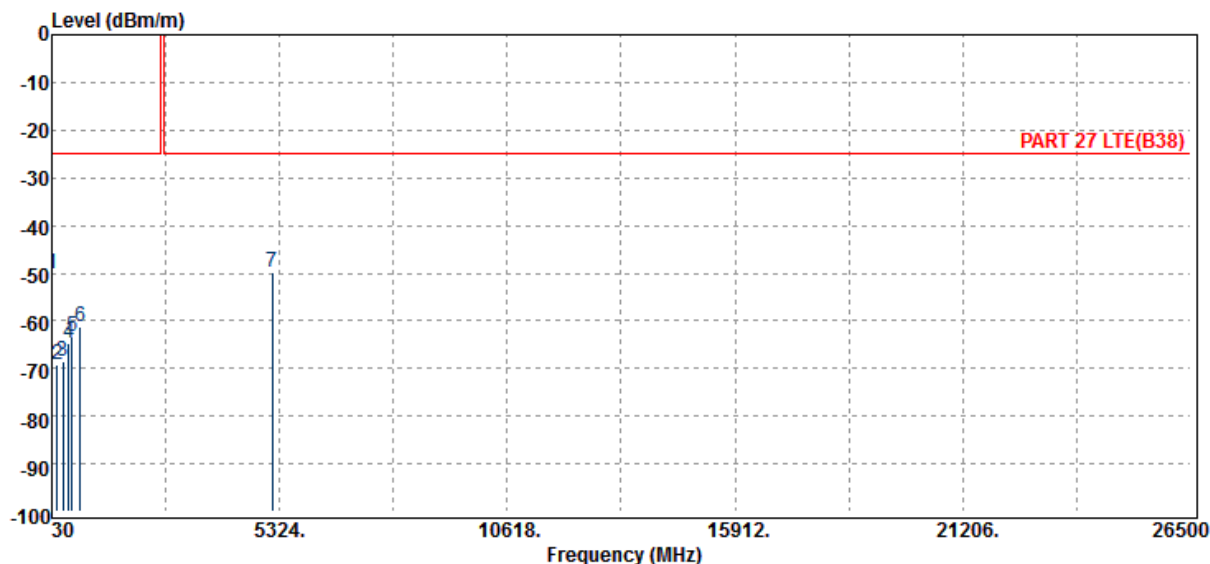
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Radiated Spurious Emission Measurement Result: LTE-Band 38 (The Worst Case)

Operation Band	:LTE B38	Test Date	:2019-03-28
Fundamental Frequency	:2575 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH LOW	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



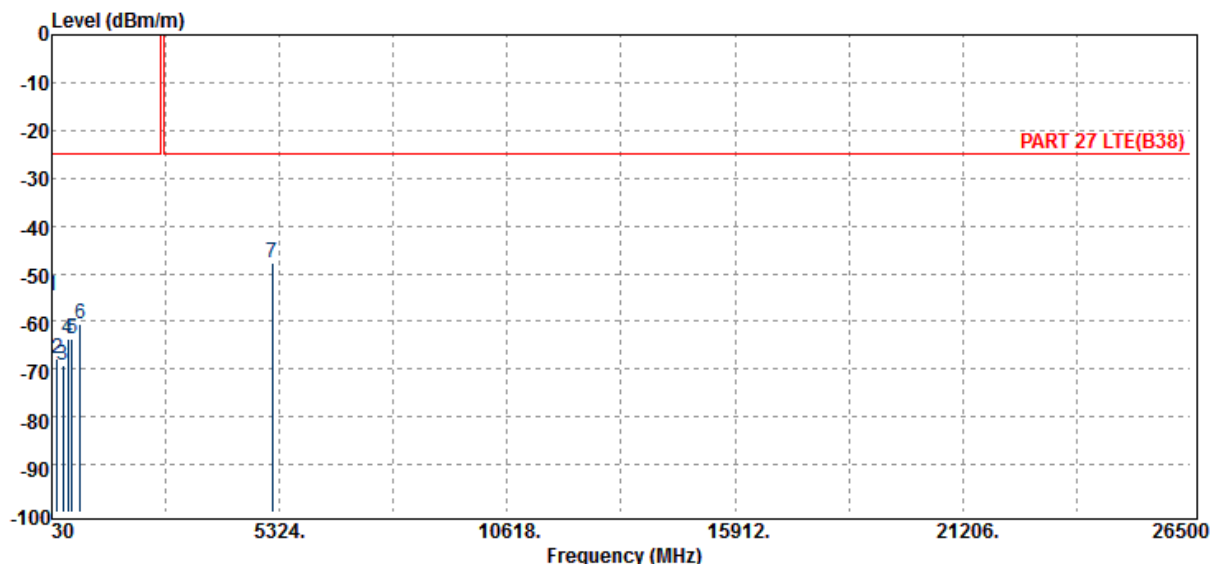
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-50.27	-19.80	-30.05	-0.45	0.03	-25.00	-25.27
153.19	-69.10	-61.27	-6.89	-1.02	0.09	-25.00	-44.10
285.11	-68.54	-64.83	-2.44	-1.40	0.13	-25.00	-43.54
415.09	-64.81	-61.44	-1.85	-1.69	0.17	-25.00	-39.81
497.54	-63.49	-59.68	-2.00	-1.86	0.05	-25.00	-38.49
697.36	-61.21	-57.80	-1.40	-2.22	0.21	-25.00	-36.21
5150.00	-49.99	-56.58	12.70	-6.77	0.67	-25.00	-24.99

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Operation Band	:LTE B38	Test Date	:2019-03-28
Fundamental Frequency	:2575 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH LOW	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



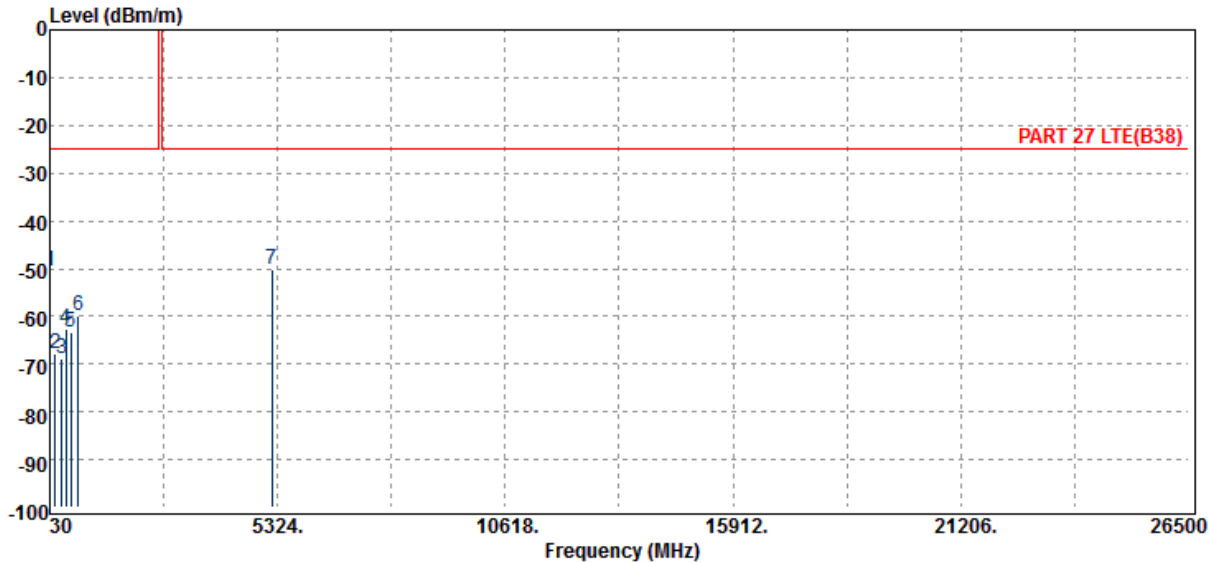
Freq.	ERP/EIRP	SG	Antenna	Cable	Filter	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBd/dBi	Loss dB	dB	dBm	dB
30.00	-54.53	-24.06	-30.05	-0.45	0.03	-25.00	-29.53
151.25	-67.88	-59.91	-7.05	-1.01	0.09	-25.00	-42.88
289.96	-69.26	-65.83	-2.15	-1.41	0.12	-25.00	-44.26
405.39	-63.79	-60.51	-1.75	-1.67	0.14	-25.00	-38.79
492.69	-63.77	-59.85	-2.14	-1.85	0.07	-25.00	-38.77
694.45	-60.42	-57.08	-1.35	-2.22	0.23	-25.00	-35.42
5150.00	-47.62	-54.22	12.70	-6.77	0.67	-25.00	-22.62

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Operation Band	:LTE B38	Test Date	:2019-03-28
Fundamental Frequency	:2595 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH MID	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



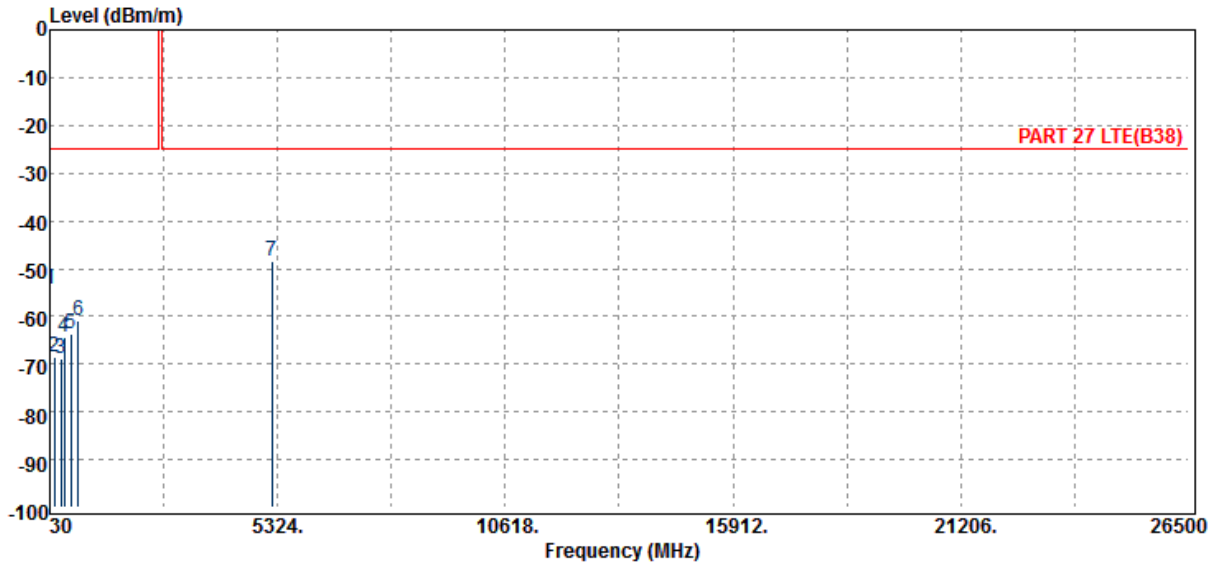
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-50.51	-20.04	-30.05	-0.45	0.03	-25.00	-25.51
160.95	-67.74	-60.60	-6.17	-1.05	0.08	-25.00	-42.74
298.69	-68.81	-65.49	-2.00	-1.43	0.11	-25.00	-43.81
406.36	-62.67	-59.40	-1.75	-1.67	0.14	-25.00	-37.67
585.81	-62.55	-59.51	-1.13	-2.04	0.13	-25.00	-37.55
684.75	-59.84	-56.56	-1.35	-2.21	0.27	-25.00	-34.84
5190.00	-50.30	-57.20	12.94	-6.66	0.62	-25.00	-25.30

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Operation Band	:LTE B38	Test Date	:2019-03-28
Fundamental Frequency	:2595 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH MID	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



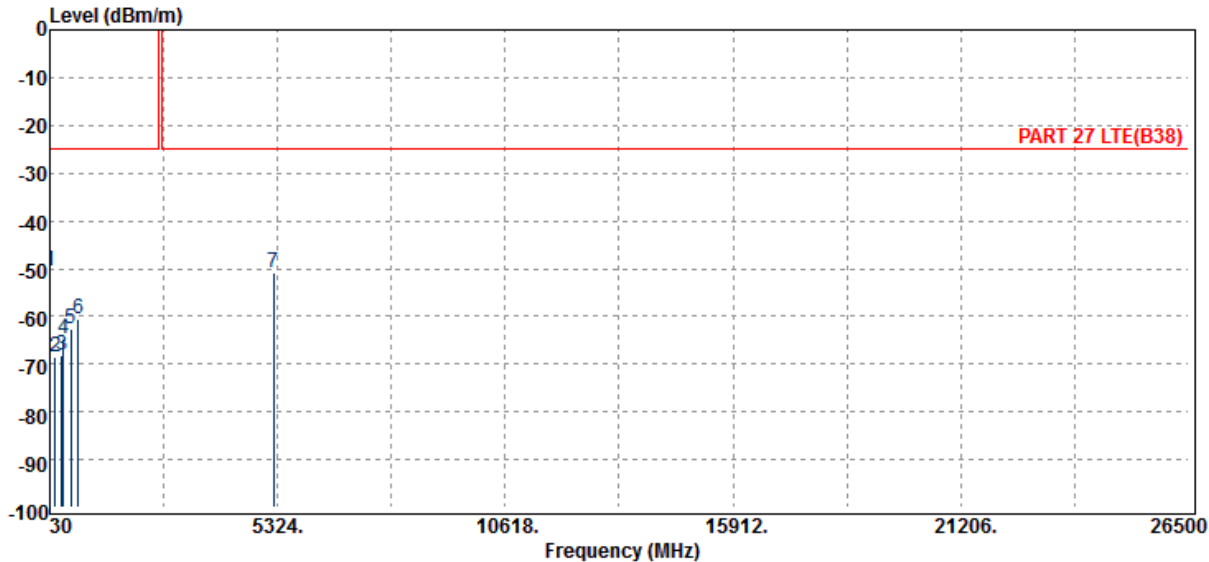
Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-54.18	-23.71	-30.05	-0.45	0.03	-25.00	-29.18
139.61	-68.67	-59.17	-8.61	-0.97	0.09	-25.00	-43.67
294.81	-68.90	-65.45	-2.15	-1.42	0.12	-25.00	-43.90
372.41	-64.25	-61.03	-1.70	-1.60	0.08	-25.00	-39.25
512.09	-63.65	-60.18	-1.57	-1.90	-0.01	-25.00	-38.65
694.45	-60.98	-57.64	-1.35	-2.22	0.23	-25.00	-35.98
5190.00	-48.61	-55.51	12.94	-6.66	0.62	-25.00	-23.61

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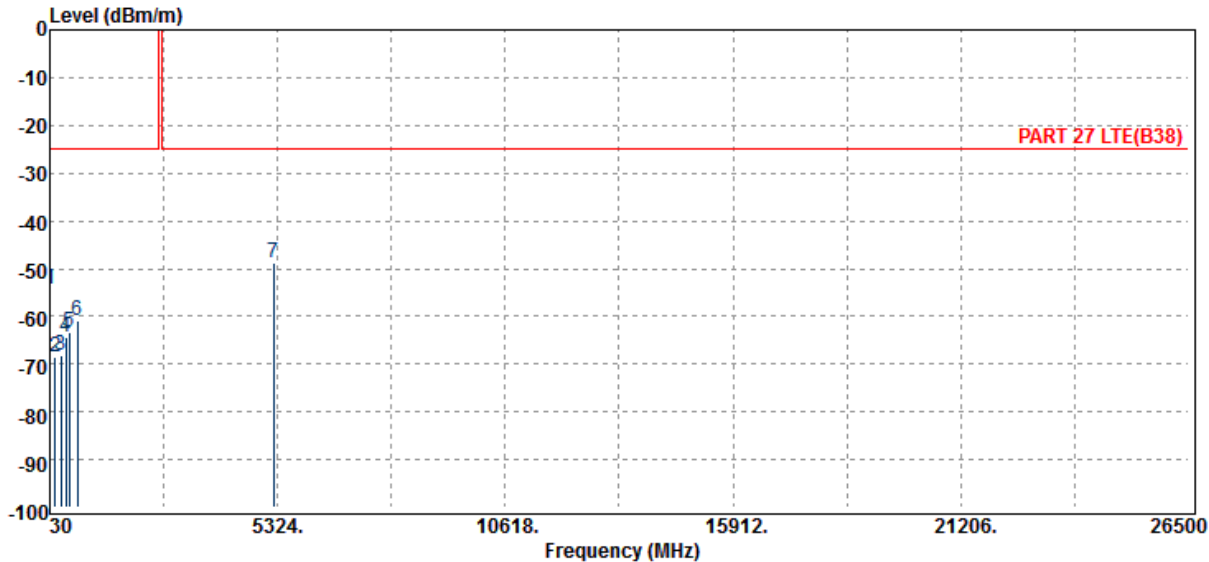
Operation Band	:LTE B38	Test Date	:2019-03-28
Fundamental Frequency	:2615 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH HIGH	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-50.55	-20.07	-30.05	-0.45	0.03	-25.00	-25.55
149.31	-68.57	-60.44	-7.22	-1.00	0.09	-25.00	-43.57
299.66	-68.14	-64.85	-1.96	-1.43	0.11	-25.00	-43.14
338.46	-64.83	-61.86	-1.51	-1.52	0.06	-25.00	-39.83
578.05	-62.93	-59.59	-1.39	-2.02	0.07	-25.00	-37.93
686.69	-60.51	-57.21	-1.35	-2.21	0.26	-25.00	-35.51
5230.00	-50.93	-57.93	13.12	-6.79	0.67	-25.00	-25.93

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Operation Band	:LTE B38	Test Date	:2019-03-28
Fundamental Frequency	:2615 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH HIGH	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Filter dB	Limit dBm	Margin dB
30.00	-54.31	-23.84	-30.05	-0.45	0.03	-25.00	-29.31
149.31	-68.48	-60.35	-7.22	-1.00	0.09	-25.00	-43.48
284.14	-68.01	-64.29	-2.47	-1.39	0.13	-25.00	-43.01
401.51	-64.38	-61.17	-1.68	-1.66	0.13	-25.00	-39.38
488.81	-63.30	-59.27	-2.27	-1.84	0.09	-25.00	-38.30
679.90	-60.84	-57.67	-1.25	-2.20	0.28	-25.00	-35.84
5230.00	-48.88	-55.88	13.12	-6.79	0.67	-25.00	-23.88

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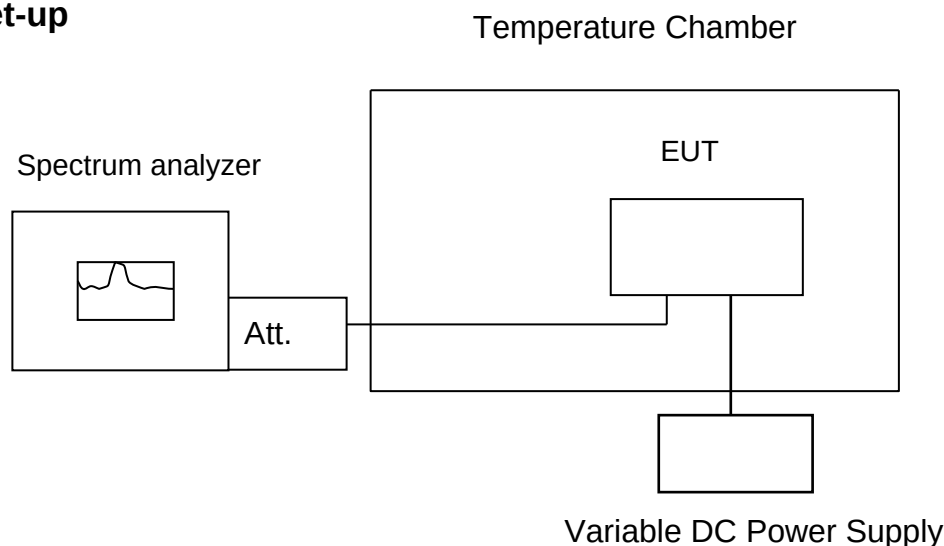
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10. FREQUENCY STABILITY MEASUREMENT

10.1. Standard Applicabl

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

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

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	Agilent	N9010A	MY53400256	11/21/2018	11/20/2019
Digital Radio Communication Tester	R&S	CMU200	100535	09/17/2018	09/16/2019
DC Power Supply	Agilent	E3640A	KR93300208	08/15/2018	08/14/2019
Thermostatic/Hrgrosatic Chamber	TAICHY	MHG-150LF	930619	10/08/2018	10/07/2019
Attenuator	Mini-Circuit	BW-S10W2+	1	02/26/2019	02/25/2020
DC Block	Mini-Circuits	BLK-18-S+	31129(1)	02/26/2019	02/25/2020
Splitter	RF-LAMBAD	RFLT2W1G18G	11-JSPD022-013	02/26/2019	02/25/2020
Coaxial Cables	Woken	00100A1F1A185C	RF12	02/26/2019	02/25/2020
Wideband Radio Communication Tester	R&S	CMW 500	116875	04/20/2018	04/19/2019

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10.5. Measurement Result

GPRS 850 Mid Channel			836.6	MHz
Limit: +/- 2.5 ppm				
Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit (Hz)
FREQUENCY ERROR vs. VOLTAGE				
4	20	836.600006	6	2091
3.85	20	836.600009	9	2091
3.7	20	836.600005	5	2091
3.2 (End point)	20	836.600009	9	2091
FREQUENCY ERROR vs. Temp.				
3.85	50	836.600001	1	2091
3.85	40	836.600008	8	2091
3.85	30	836.599991	-9	2091
3.85	20	836.600001	1	2091
3.85	10	836.600001	1	2091
3.85	0	836.599991	-9	2091
3.85	-10	836.600007	7	2091
3.85	-20	836.6	0	2091
3.85	-30	836.599999	-1	2091

GPRS 1900 Mid Channel			1880	MHz
Limit: +/- 2.5 ppm				
Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit (Hz)
FREQUENCY ERROR vs. VOLTAGE				
4	20	1880.000005	5	4700
3.85	20	1879.999993	-7	4700
3.7	20	1879.999999	-1	4700
3.2 (End point)	20	1879.99999	-10	4700
FREQUENCY ERROR vs. Temp.				
3.85	50	1879.999997	-3	4700
3.85	40	1880.000004	4	4700
3.85	30	1880.000009	9	4700
3.85	20	1879.999994	-6	4700
3.85	10	1880.000006	6	4700
3.85	0	1880.000007	7	4700
3.85	-10	1879.999997	-3	4700
3.85	-20	1880.000008	8	4700
3.85	-30	1879.999998	-2	4700

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WCDMA II Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm				
Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit (Hz)
FREQUENCY ERROR vs. VOLTAGE				
4	20	1880.000004	4	4700
3.85	20	1879.999994	-6	4700
3.7	20	1880.000002	2	4700
3.2 (End point)	20	1880	0	4700
FREQUENCY ERROR vs. Temp.				
3.85	50	1879.999992	-8	4700
3.85	40	1879.999994	-6	4700
3.85	30	1880	0	4700
3.85	20	1880.000008	8	4700
3.85	10	1879.999997	-3	4700
3.85	0	1880.000003	3	4700
3.85	-10	1880.000004	4	4700
3.85	-20	1880.000006	6	4700
3.85	-30	1880.000003	3	4700

WCDMA IV Mid Channel 1732.6 MHz				
Limit: +/- 2.5 ppm				
Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit (Hz)
FREQUENCY ERROR vs. VOLTAGE				
4	20	1732.6	0	4331
3.85	20	1732.599992	-8	4331
3.7	20	1732.600001	10	4331
3.2 (End point)	20	1732.599992	-8	4331
FREQUENCY ERROR vs. Temp.				
3.85	50	1732.599995	-5	4331
3.85	40	1732.599996	-4	4331
3.85	30	1732.600006	6	4331
3.85	20	1732.599998	-2	4331
3.85	10	1732.599992	-8	4331
3.85	0	1732.599998	-2	4331
3.85	-10	1732.599998	-2	4331
3.85	-20	1732.599994	-6	4331
3.85	-30	1732.599994	-6	4331

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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				
4	20	836.599998	-2	2091
3.85	20	836.600007	7	2091
3.7	20	836.599999	-10	2091
3.2 (End point)	20	836.599995	-5	2091
FREQUENCY ERROR vs. Temp.				
3.85	50	836.599997	-3	2091
3.85	40	836.600008	8	2091
3.85	30	836.599994	-6	2091
3.85	20	836.599995	-5	2091
3.85	10	836.599993	-7	2091
3.85	0	836.599998	-2	2091
3.85	-10	836.600005	5	2091
3.85	-20	836.599997	-3	2091
3.85	-30	836.600005	5	2091

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Reference Freq.: LTE B2 Mid Channel 1880 MHz 20M QPSK CH 18900				
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
4	25	1879.999999	-1	4700
3.85	25	1879.999996	-4	4700
3.7	25	1879.999998	-2	4700
3.2 (End Point)	25	1880.000003	3	4700
Freq. ERROR vs. Temp.				
3.85	-30	1880.000007	7	4700
3.85	-20	1880.000007	7	4700
3.85	-10	1879.999994	-6	4700
3.85	0	1879.999997	-3	4700
3.85	10	1879.999997	-3	4700
3.85	20	1880.000000	0	4700
3.85	30	1880.000009	9	4700
3.85	40	1880.000004	4	4700
3.85	50	1880.000002	2	4700

Reference Freq.: LTE B4 Mid Channel 1732.5 MHz 20M QPSK CH 20175				
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
4	25	1732.500004	4	4331
3.85	25	1732.500000	0	4331
3.7	25	1732.500007	7	4331
3.2 (End Point)	25	1732.500005	5	4331
Freq. ERROR vs. Temp.				
3.85	-30	1732.499992	-8	4331
3.85	-20	1732.499997	-3	4331
3.85	-10	1732.499994	-6	4331
3.85	0	1732.499999	-1	4331
3.85	10	1732.500001	1	4331
3.85	20	1732.500003	3	4331
3.85	30	1732.499994	-6	4331
3.85	40	1732.499996	-4	4331
3.85	50	1732.500001	1	4331

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Reference Freq.: LTE B5 Mid Channel 836.5 MHz 10M QPSK CH 20525				
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
4	25	836.500008	8	2091
3.85	25	836.500008	8	2091
3.7	25	836.499997	-3	2091
3.2 (End Point)	25	836.499999	-1	2091
Freq. ERROR vs. Temp.				
3.85	-30	836.499993	-7	2091
3.85	-20	836.500005	5	2091
3.85	-10	836.500002	2	2091
3.85	0	836.500004	4	2091
3.85	10	836.499992	-8	2091
3.85	20	836.499992	-8	2091
3.85	30	836.500008	8	2091
3.85	40	836.499996	-4	2091
3.85	50	836.499992	-8	2091

Reference Freq.: LTE B7 Mid Channel 2535 MHz 10M QPSK CH 21100				
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
4	25	2535.000003	3	6338
3.85	25	2534.999996	-4	6338
3.7	25	2535.000002	2	6338
3.2 (End Point)	25	2535.000003	3	6338
Freq. ERROR vs. Temp.				
3.85	-30	2535.000008	8	6338
3.85	-20	2534.999995	-5	6338
3.85	-10	2535.000008	8	6338
3.85	0	2535.000006	6	6338
3.85	10	2535.000001	1	6338
3.85	20	2535.000008	8	6338
3.85	30	2534.999994	-6	6338
3.85	40	2534.999992	-8	6338
3.85	50	2534.999995	-5	6338

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Reference Freq.: LTE B12 Mid Channel 707.5 MHz 10M QPSK CH 23095				
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
4	25	707.500005	5	1769
3.85	25	707.499992	-8	1769
3.7	25	707.499995	-5	1769
3.2 (End Point)	25	707.500000	0	1769
Freq. ERROR vs. Temp.				
3.85	-30	707.500001	1	1769
3.85	-20	707.500008	8	1769
3.85	-10	707.499999	-1	1769
3.85	0	707.499991	-9	1769
3.85	10	707.499994	-6	1769
3.85	20	707.499996	-4	1769
3.85	30	707.499998	-2	1769
3.85	40	707.499995	-5	1769
3.85	50	707.499997	-3	1769

Reference Freq.: LTE B13 Mid Channel 782 MHz 10M QPSK CH 23230				
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
4	25	782.000008	8	1955
3.85	25	781.999996	-4	1955
3.7	25	781.999996	-4	1955
3.2 (End Point)	25	782.000004	4	1955
Freq. ERROR vs. Temp.				
3.85	-30	781.999996	-4	1955
3.85	-20	782.000003	3	1955
3.85	-10	781.999996	-4	1955
3.85	0	781.999998	-2	1955
3.85	10	781.999995	-5	1955
3.85	20	781.999996	-4	1955
3.85	30	781.999997	-3	1955
3.85	40	781.999995	-5	1955
3.85	50	781.999992	-8	1955

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Reference Freq.: LTE B17 Mid Channel 710 MHz 10M QPSK CH 23790				
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
4	25	709.999992	-8	1775
3.85	25	709.999997	-3	1775
3.7	25	709.999999	-1	1775
3.2 (End Point)	25	710.000002	2	1775
Freq. ERROR vs. Temp.				
3.85	-30	710.000010	10	1775
3.85	-20	710.000007	7	1775
3.85	-10	709.999997	-3	1775
3.85	0	709.999997	-3	1775
3.85	10	710.000000	0	1775
3.85	20	709.999996	-4	1775
3.85	30	710.000006	6	1775
3.85	40	710.000003	3	1775
3.85	50	710.000009	9	1775

Reference Freq.: LTE B38 Mid Channel 2595 MHz 10M QPSK CH 38000				
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
4	25	2594.999992	-8	6488
3.85	25	2594.999998	-2	6488
3.7	25	2595.000006	6	6488
3.2 (End Point)	25	2595.000004	4	6488
Freq. ERROR vs. Temp.				
3.85	-30	2594.999998	-2	6488
3.85	-20	2595.000008	8	6488
3.85	-10	2594.999995	-5	6488
3.85	0	2595.000007	7	6488
3.85	10	2594.999992	-8	6488
3.85	20	2595.000000	0	6488
3.85	30	2595.000005	5	6488
3.85	40	2594.999994	-6	6488
3.85	50	2595.000000	0	6488

Note: The battery is rated 3.85Vdc.

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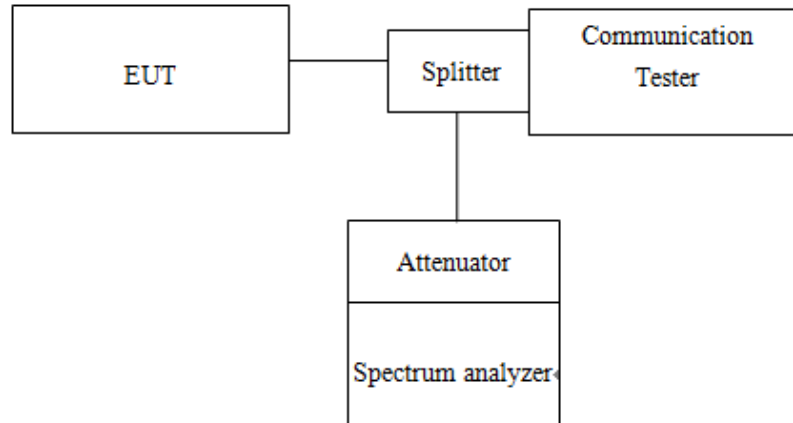
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11. PEAK TO AVERAGE RATIO

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

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	Agilent	N9010A	MY53400256	11/21/2018	11/20/2019
Digital Radio Communication Tester	R&S	CMU200	100535	09/17/2018	09/16/2019
DC Power Supply	Agilent	E3640A	KR93300208	08/15/2018	08/14/2019
Attenuator	Mini-Circuit	BW-S10W2+	1	02/26/2019	02/25/2020
DC Block	Mini-Circuits	BLK-18-S+	31129(1)	02/26/2019	02/25/2020
Splitter	RF-LAMBAD	RFLT2W1G18G	11-JSPD022-013	02/26/2019	02/25/2020
Coaxial Cables	Woken	00100A1F1A185C	RF12	02/26/2019	02/25/2020
Wideband Radio Communication Tester	R&S	CMW 500	116875	04/20/2018	04/19/2019

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11.5. Measurement Result

Tabular Results:

Freq. (MHz)	CH	Peak-to-Average	
		GSM 1900	GPRS 1900
1850.2	512	9.83	8.03
1880	661	9.29	9.85
1909.8	810	10.38	9.74

Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA II	HSDPA II	HSUPA II
1852.4	9262	3.49	3.54	3.58
1880	9400	3.64	3.64	3.64
1907.6	9538	3.67	3.61	3.73

Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA IV	HSDPA IV	HSUPA IV
1712.4	1312	3.46	3.39	3.39
1732.6	1413	3.47	3.64	3.57
1752.6	1513	3.56	3.59	3.42

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LTE BAND 2							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
1850.7	18607	6.02	13	1851.5	18615	5.98	13
1880.0	18900	5.55	13	1880.0	18900	5.79	13
1909.3	19193	5.63	13	1908.5	19185	5.64	13

LTE BAND 2							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
1852.5	18625	5.70	13	1855.0	18650	5.87	13
1880.0	18900	5.70	13	1880.0	18900	5.89	13
1907.5	19175	5.67	13	1905.0	19150	5.89	13

LTE BAND 2							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
1857.5	18675	6.11	13	1860.0	18700	6.60	13
1880.0	18900	6.14	13	1880.0	18900	6.58	13
1902.5	19125	6.14	13	1900.0	19100	6.87	13

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LTE BAND 4							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
1710.7	19957	6.10	13	1711.5	19965	6.00	13
1732.5	20175	5.90	13	1732.5	20175	5.98	13
1754.3	20393	6.06	13	1753.5	20385	6.06	13

LTE BAND 4							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
1712.5	19957	5.86	13	1715.0	20000	5.89	13
1732.5	20175	5.88	13	1732.5	20175	5.95	13
1752.5	20375	5.87	13	1750.0	20350	6.08	13

LTE BAND 4							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
1717.5	20025	6.12	13	1720.0	20050	6.60	13
1732.5	20175	6.21	13	1732.5	20175	6.75	13
1747.5	20325	6.12	13	1745.0	20300	6.81	13

LTE BAND 7							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
2502.5	20775	6.09	13	2505.0	20800	6.05	13
2535.0	21100	6.18	13	2535.0	21100	5.75	13
2567.5	21375	6.10	13	2565.0	21350	6.08	13

LTE BAND 7							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
2507.5	20825	6.25	13	2510	20850	6.70	13
2535.0	21100	6.22	13	2535	21100	6.73	13
2562.5	21375	6.24	13	2560	21350	6.65	13

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LTE BAND 12							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
699.7	23017	5.98	13	700.5	23025	5.83	13
707.5	23095	5.58	13	707.5	23095	5.86	13
715.3	23173	5.80	13	714.5	23165	5.91	13

LTE BAND 12							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
701.5	23035	5.76	13	704.0	23060	5.79	13
707.5	23095	5.71	13	707.5	23095	5.84	13
713.5	23155	5.70	13	711.0	23130	5.95	13

LTE BAND 13							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
779.5	23205	6.17	13	782.0	23230	6.21	13
782.0	23230	6.17	13				
784.5	23255	5.91	13				

LTE BAND 17							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
706.5	23755	5.43	13	709.0	23780	5.85	13
710.0	23790	5.53	13	710.0	23790	5.80	13
713.5	23825	5.62	13	711.0	23800	5.80	13

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LTE BAND 38							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
2572.5	37775	7.79	13	2575	37800	8.97	13
2595.0	38000	7.07	13	2595	38000	8.99	13
2617.5	38225	9.76	13	2615	38200	9.20	13

LTE BAND 38							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
2577.5	37825	9.35	13	2580.0	37850	10.12	13
2595.0	38000	11.29	13	2595.0	38000	11.79	13
2612.5	38175	9.18	13	2610.0	38150	11.13	13

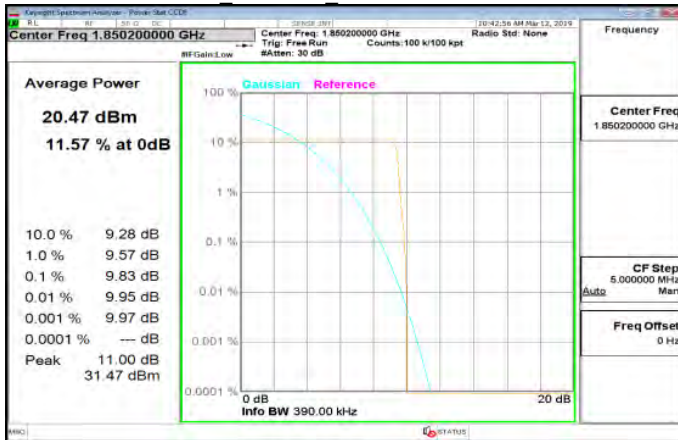
Please refer to next page for test plots.

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GSM 1900MHz LowCH512-1850.2



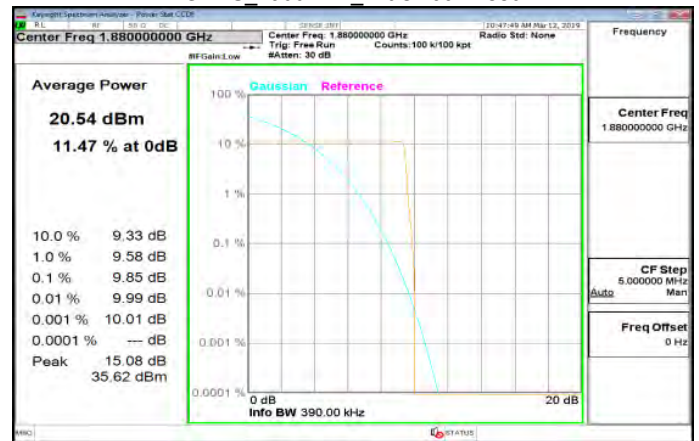
GPRS 1900MHz LowCH512-1850.2



GSM 1900MHz MidCH661-1880



GPRS 1900MHz MidCH661-1880



GSM 1900MHz HighCH810-1909.8



GPRS 1900MHz HighCH810-1909.8

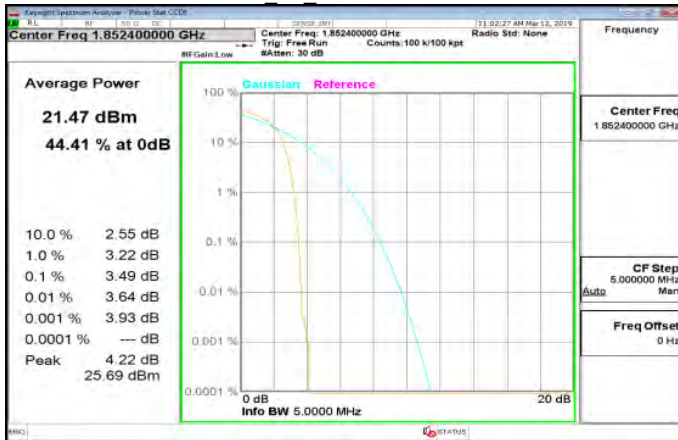


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WCDMA B2 LowCH9262-1852.4



HSDPA B2 LowCH9262-1852.4



WCDMA B2 MidCH9400-1880



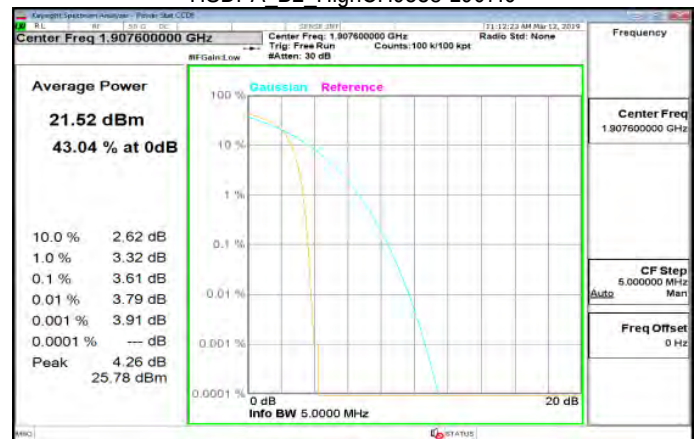
HSDPA B2 MidCH9400-1880



WCDMA B2 HighCH9538-1907.6



HSDPA B2 HighCH9538-1907.6



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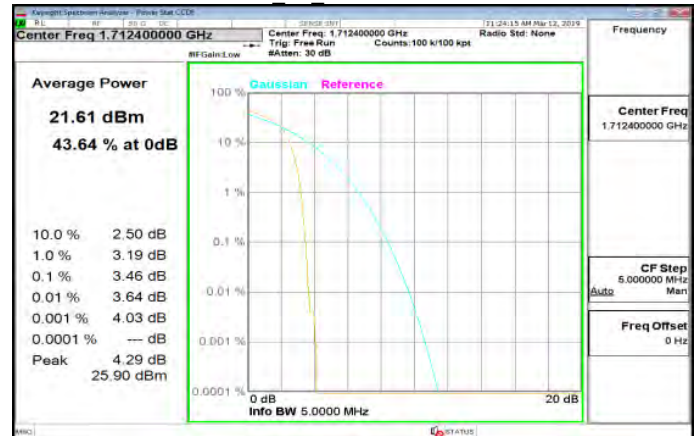
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HSUPA B2 LowCH9262-1852.4



WCDMA B4 LowCH1312-1712.4



HSUPA B2 MidCH9400-1880



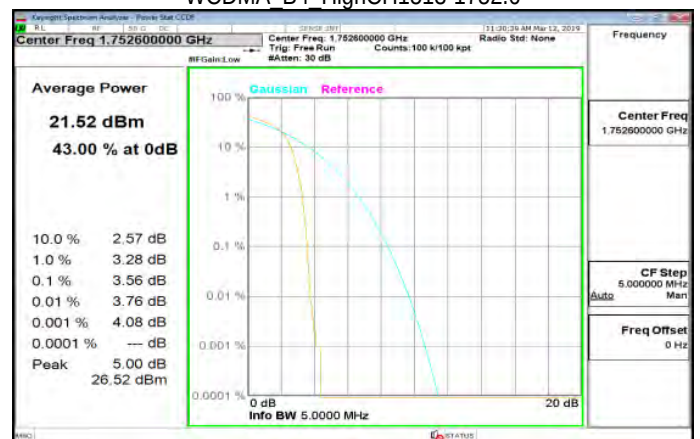
WCDMA B4 MidCH1413-1732.6



HSUPA B2 HighCH9538-1907.6



WCDMA B4 HighCH1513-1752.6

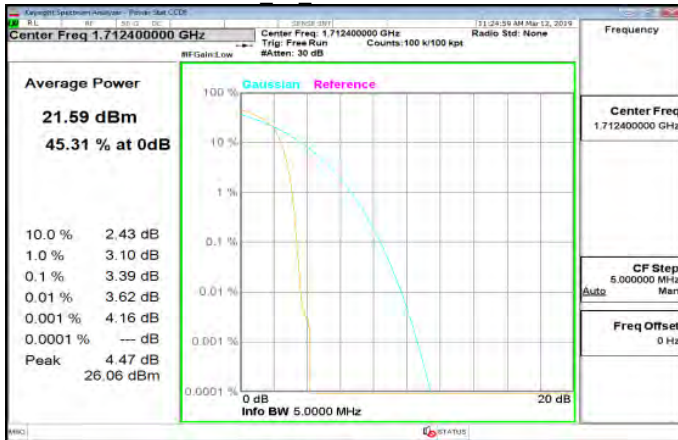


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HSDPA B4 LowCH1312-1712.4



HSUPA B4 LowCH1312-1712.4



HSDPA B4 MidCH1413-1732.6



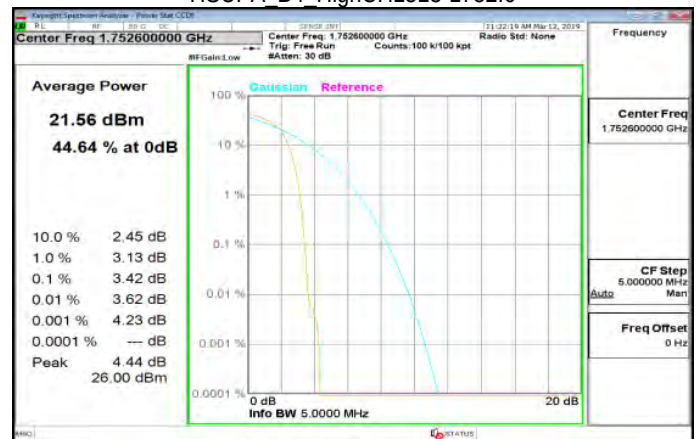
HSUPA B4 MidCH1413-1732.6



HSDPA B4 HighCH1513-1752.6



HSUPA B4 HighCH1513-1752.6

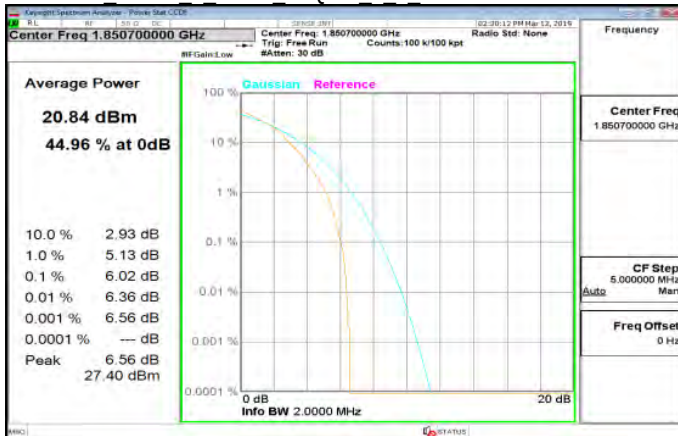


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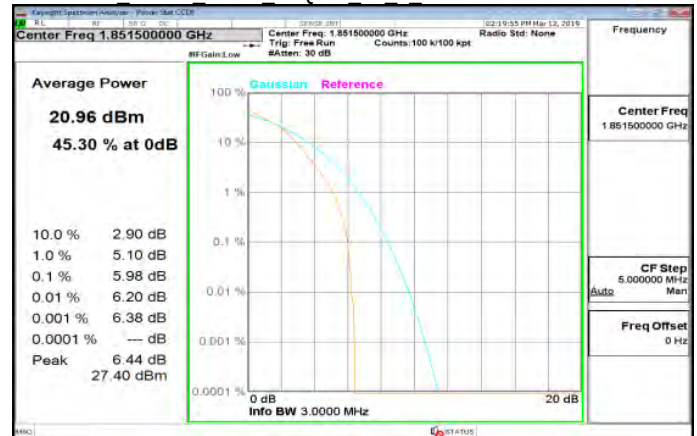
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LTE Band2 1 4MHz 64QAM 6 0 LowCH18607-1850.7



LTE Band2 3MHz 64QAM 15 0 LowCH18615-1851.5



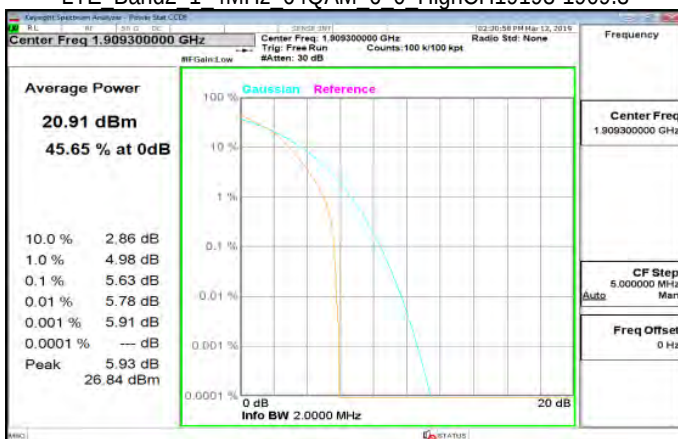
LTE Band2 1 4MHz 64QAM 6 0 MidCH18900-1880



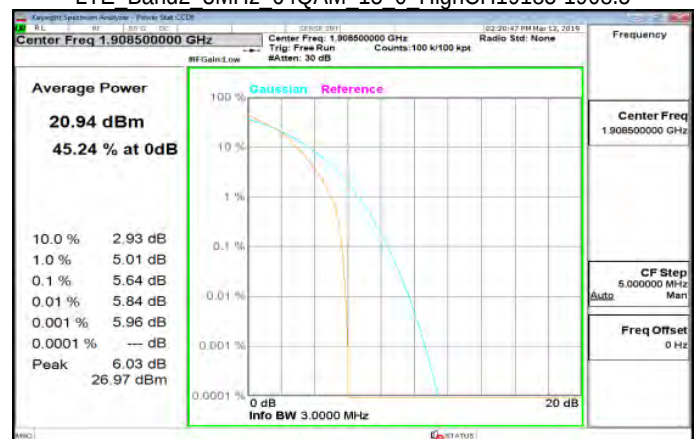
LTE Band2 3MHz 64QAM 15 0 MidCH18900-1880



LTE Band2 1 4MHz 64QAM 6 0 HighCH19193-1909.3



LTE Band2 3MHz 64QAM 15 0 HighCH19185-1908.5

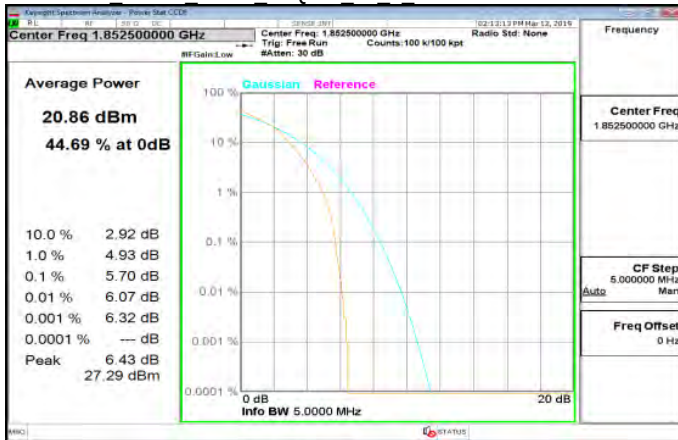


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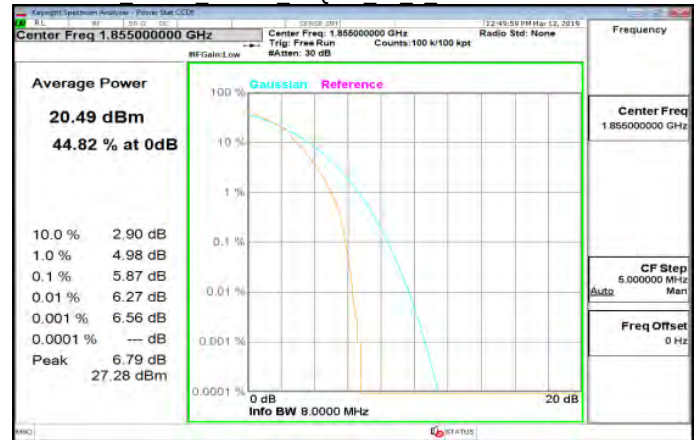
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LTE Band2 5MHz 64QAM 25 0 LowCH18625-1852.5



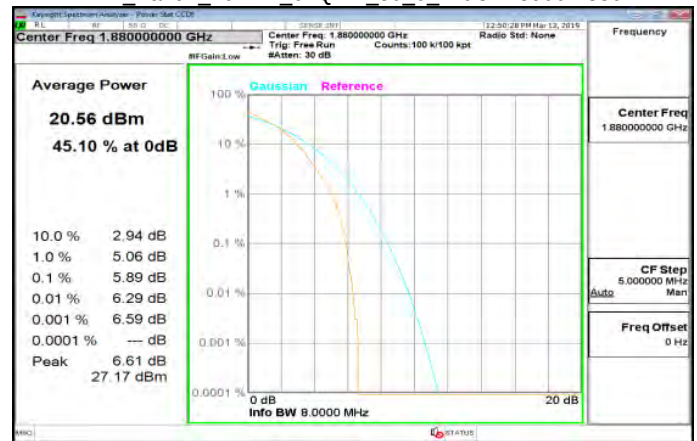
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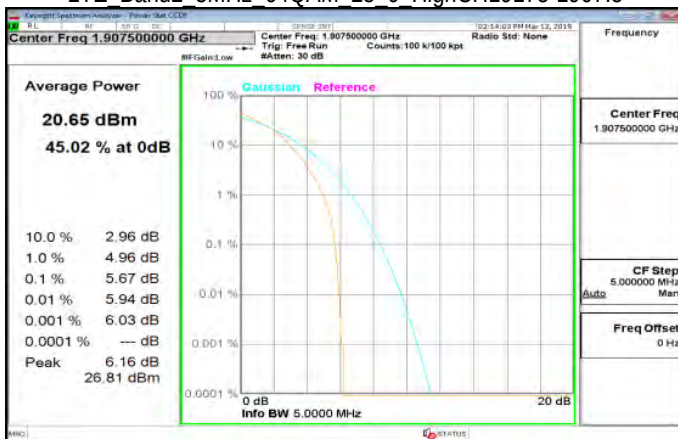
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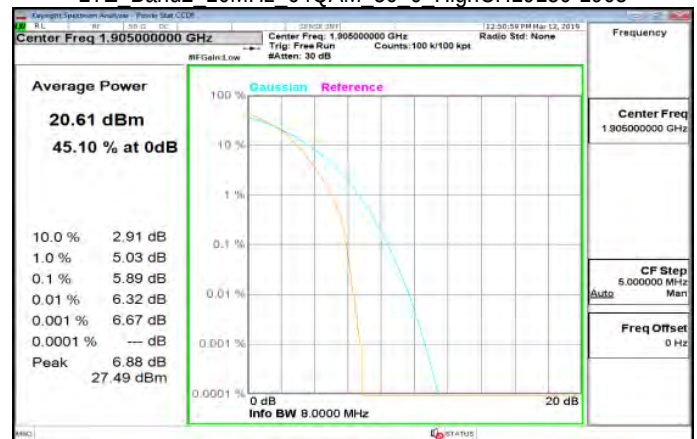
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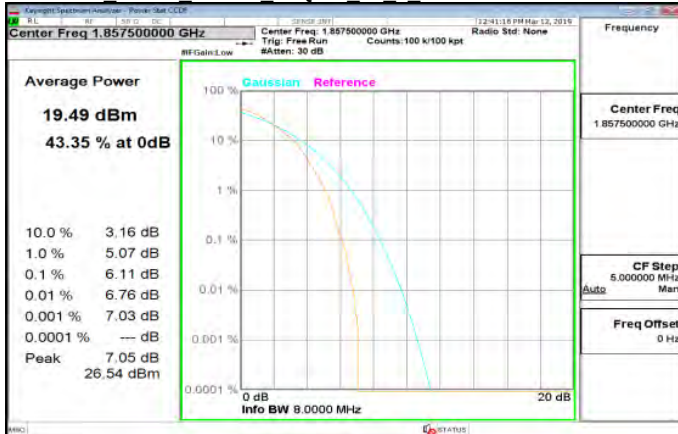


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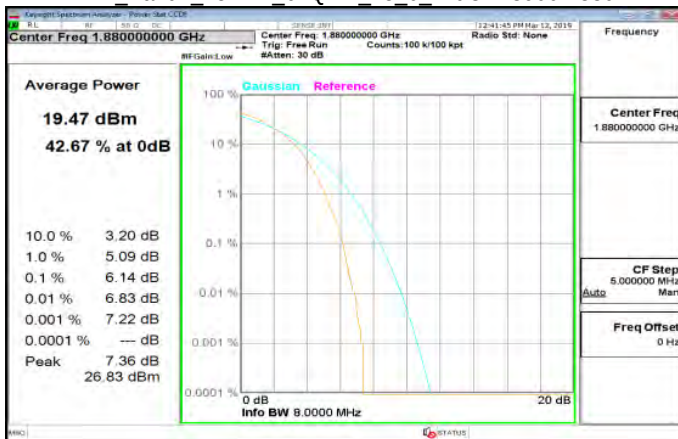
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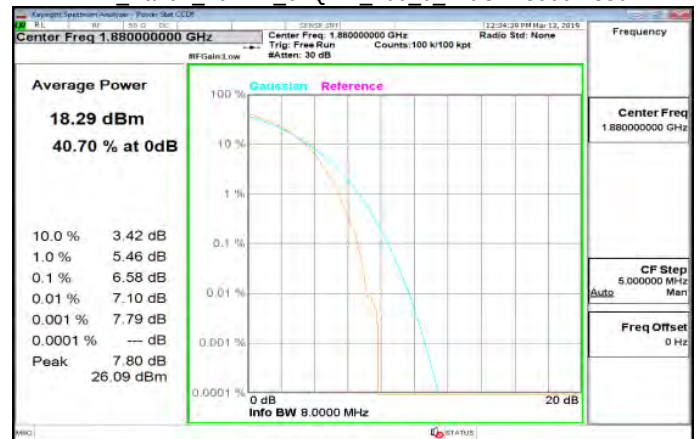
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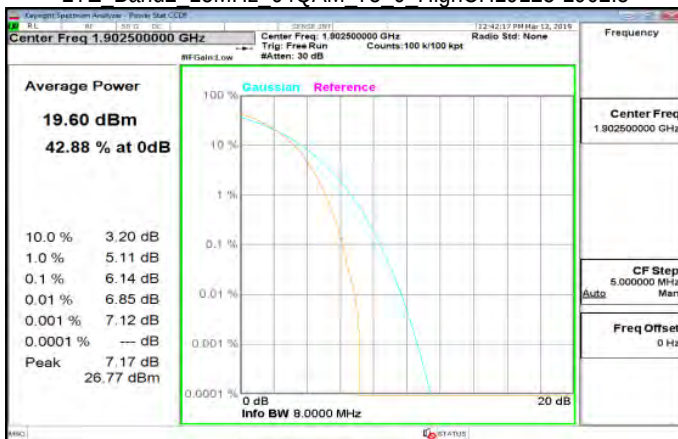
LTE Band2 15MHz 64QAM 75 0 MidCH18900-1880



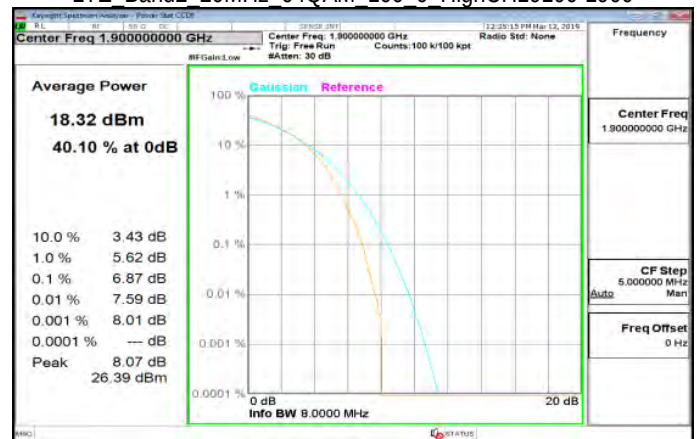
LTE Band2 20MHz 64QAM 100 0 MidCH18900-1880



LTE Band2 15MHz 64QAM 75 0 HighCH19125-1902.5



LTE Band2 20MHz 64QAM 100 0 HighCH19100-1900

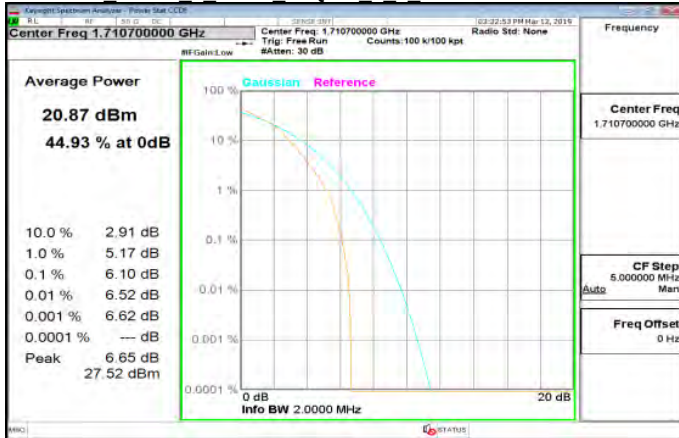


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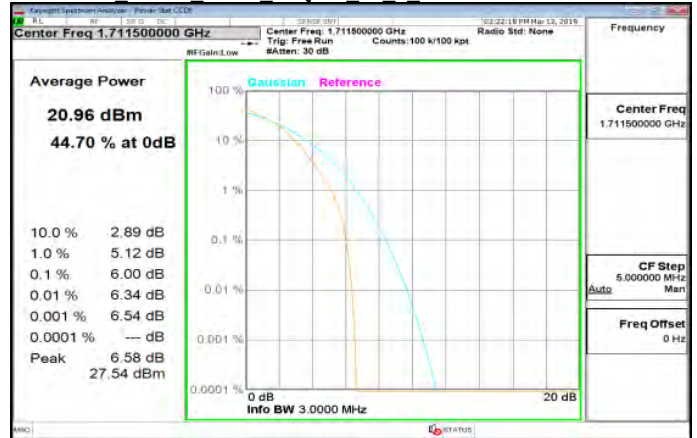
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LTE Band4 1 4MHz 64QAM 6 0 LowCH19957-1710.7



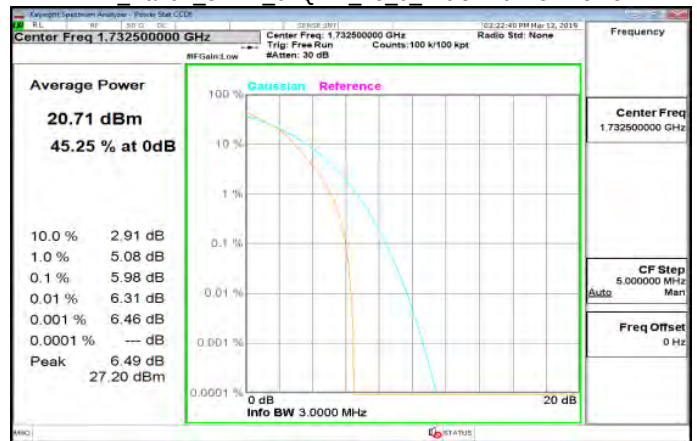
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LTE Band4 1 4MHz 64QAM 6 0 MidCH20175-1732.5



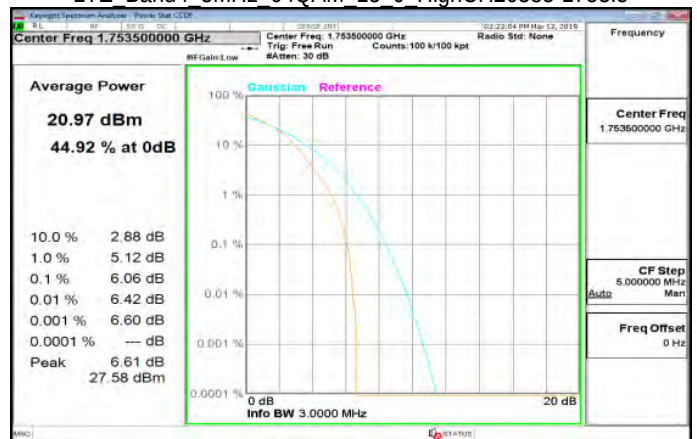
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LTE Band4 1 4MHz 64QAM 6 0 HighCH20393-1754.3



LTE Band4 3MHz 64QAM 15 0 HighCH20385-1753.5

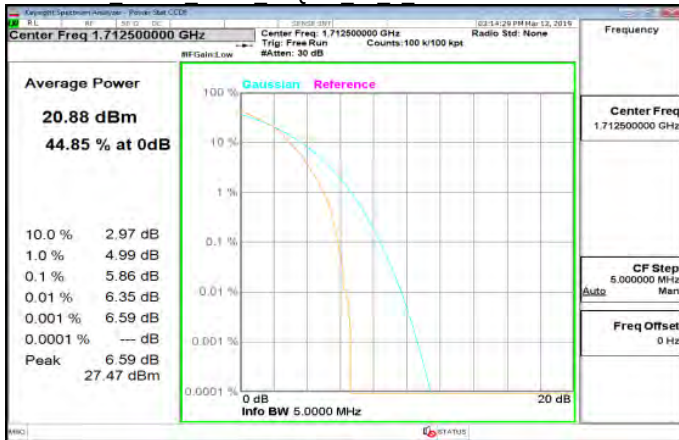


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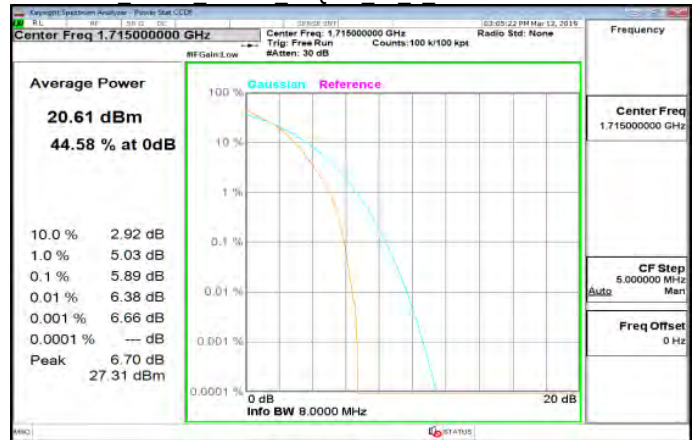
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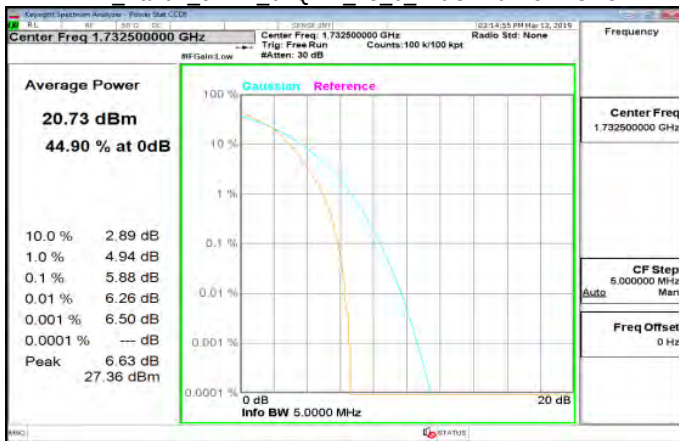
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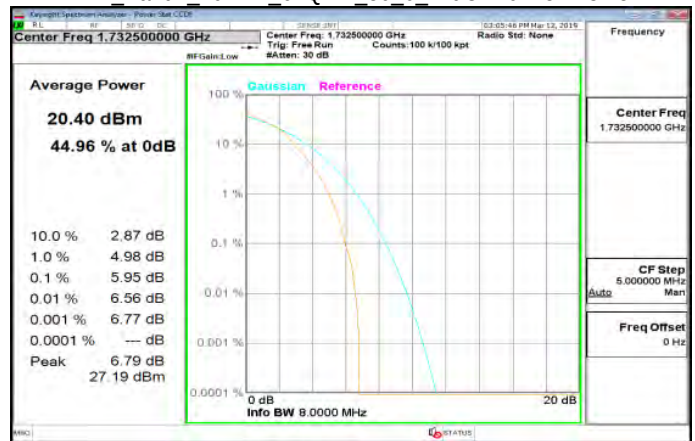
LTE Band4 10MHz 64QAM 50 0 LowCH20000-1715



LTE Band4 5MHz 64QAM 25 0 MidCH20175-1732.5



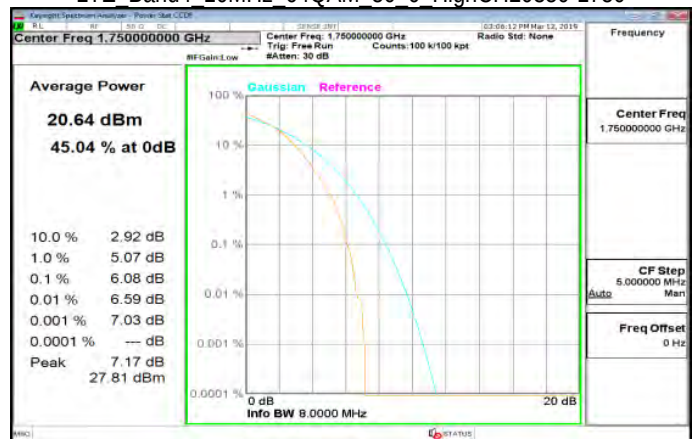
LTE Band4 10MHz 64QAM 50 0 MidCH20175-1732.5



LTE Band4 5MHz 64QAM 25 0 HighCH20375-1752.5



LTE Band4 10MHz 64QAM 50 0 HighCH20350-1750



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