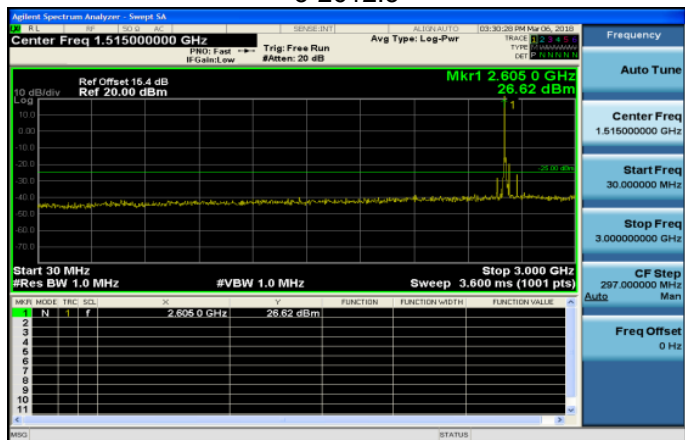


30MHz~3GHz_Band38_15MHz_QPSK_1_0_HighCH3817
5-2612.5



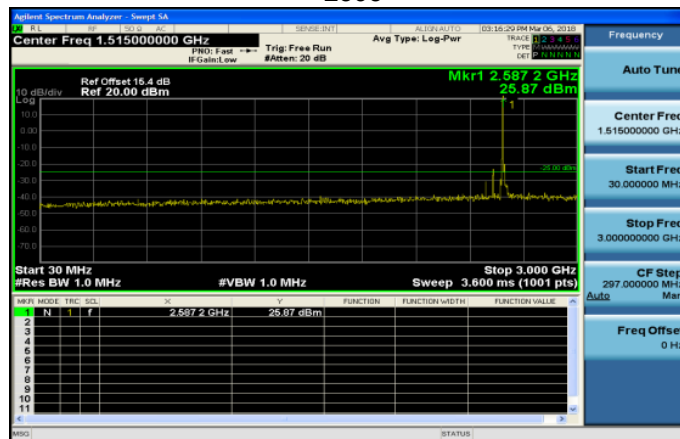
3GHz~10GHz_Band38_20MHz_QPSK_1_0_LowCH37850
-2580



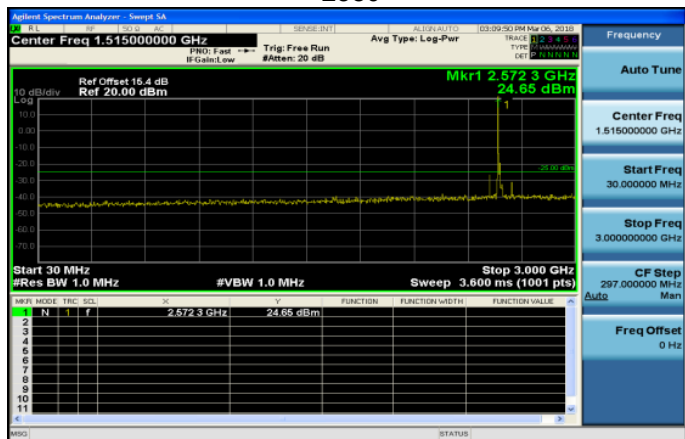
3GHz~10GHz_Band38_15MHz_QPSK_1_0_HighCH3817
5-2612.5



30MHz~3GHz_Band38_20MHz_QPSK_1_0_MidCH38000
-2595



30MHz~3GHz_Band38_20MHz_QPSK_1_0_LowCH37850
-2580



3GHz~10GHz_Band38_20MHz_QPSK_1_0_MidCH38000
-2595



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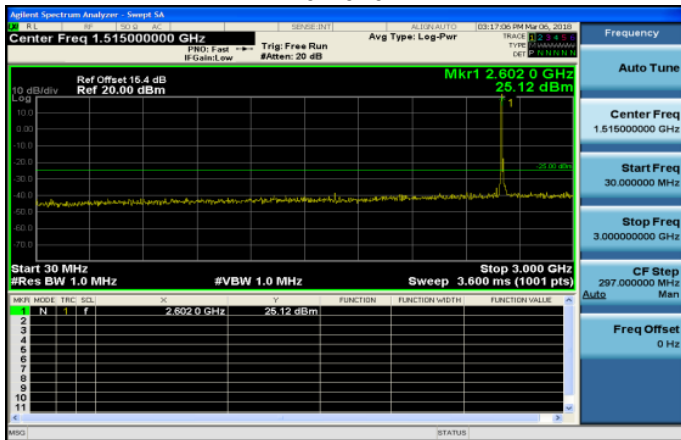
t (886-2) 2299-3279

f (886-2) 2298-0488

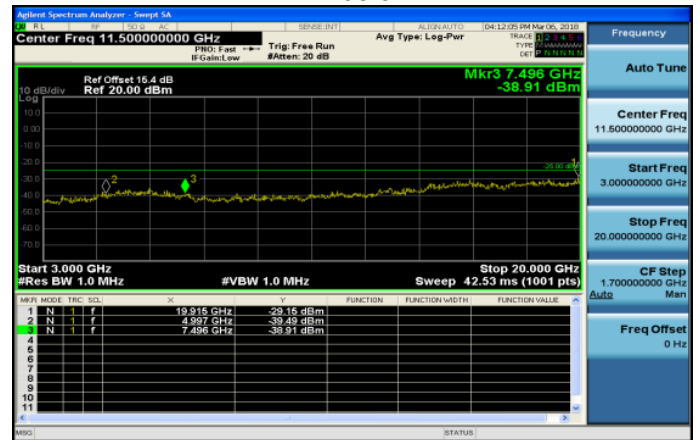
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30MHz~3GHz_Band38_20MHz_QPSK_1_0_HighCH3815
0-2610



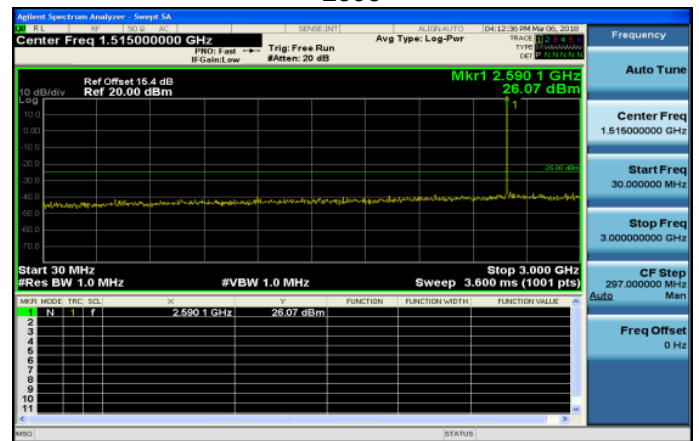
3GHz~10GHz_Band41_5MHz_QPSK_1_0_LowCH39675-
2498.5



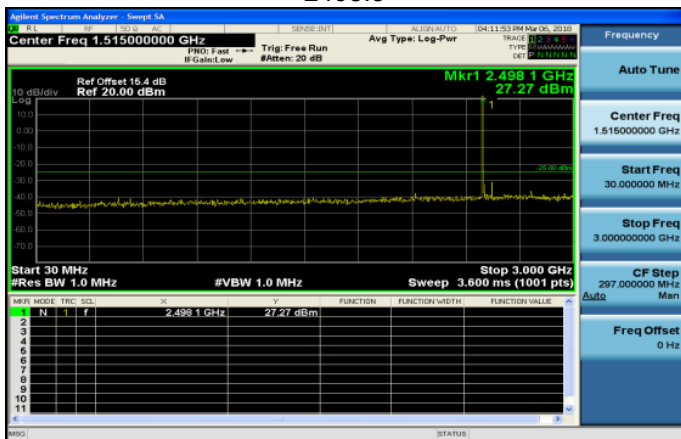
3GHz~10GHz_Band38_20MHz_QPSK_1_0_HighCH3815
0-2610



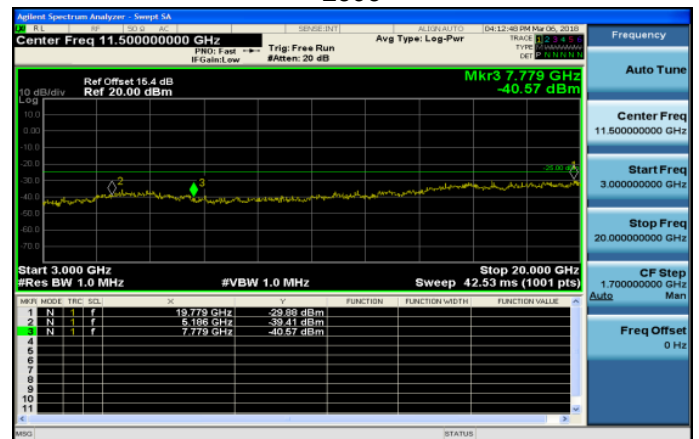
30MHz~3GHz_Band41_5MHz_QPSK_1_0_MidCH40620-
2593



30MHz~3GHz_Band41_5MHz_QPSK_1_0_LowCH39675-
2498.5



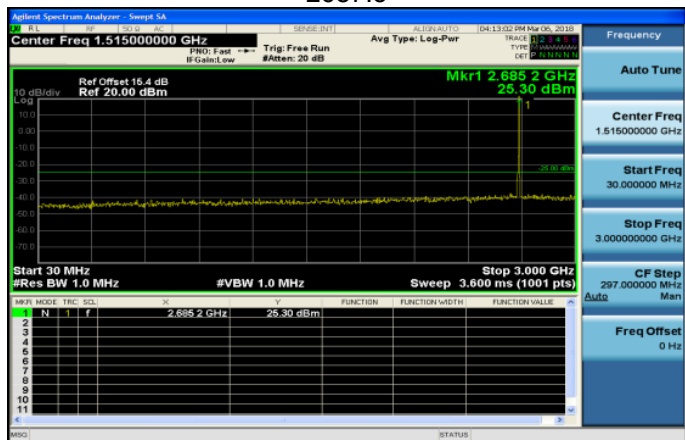
3GHz~10GHz_Band41_5MHz_QPSK_1_0_MidCH40620-
2593



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30MHz~3GHz_Band41_5MHz_QPSK_1_0_HighCH41565-2687.5



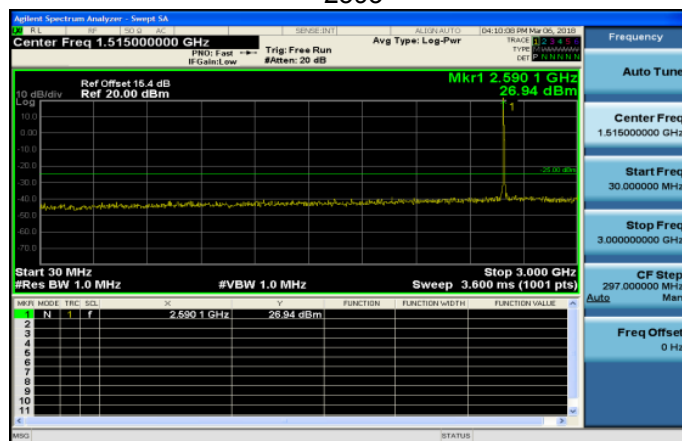
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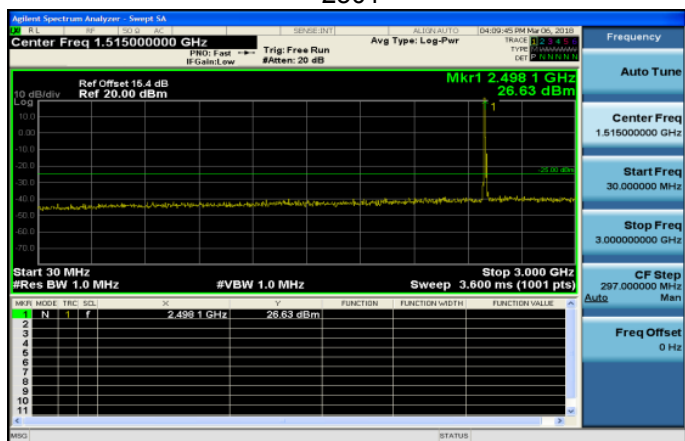
3GHz~10GHz_Band41_5MHz_QPSK_1_0_HighCH41565-2687.5



30MHz~3GHz_Band41_10MHz_QPSK_1_0_MidCH40620-2593



30MHz~3GHz_Band41_10MHz_QPSK_1_0_LowCH39700-2501



3GHz~10GHz_Band41_10MHz_QPSK_1_0_MidCH40620-2593



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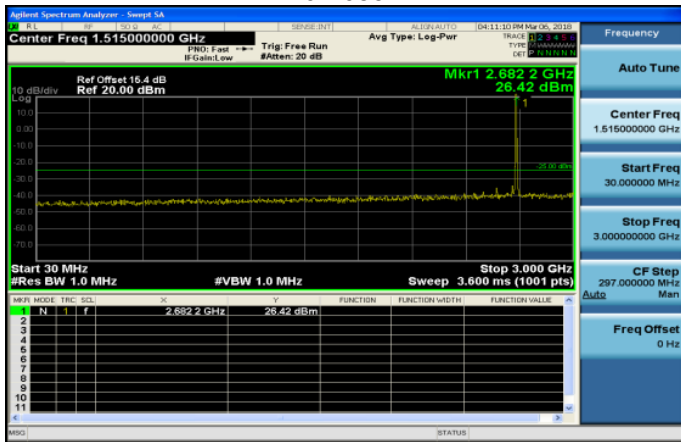
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30MHz~3GHz_Band41_10MHz_QPSK_1_0_HighCH4154
0-2685



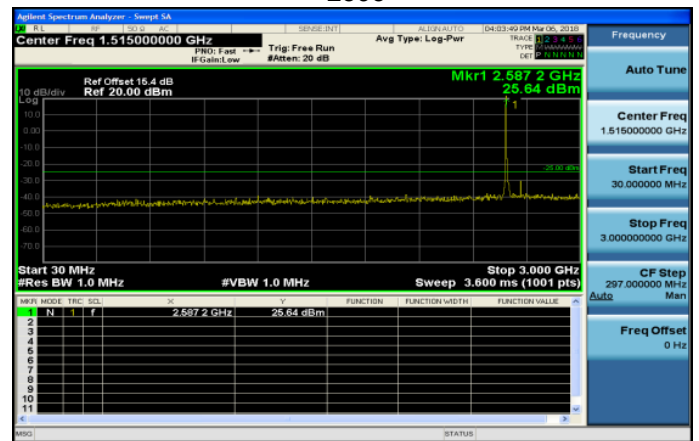
3GHz~10GHz_Band41_15MHz_QPSK_1_0_LowCH39725
-2503.5



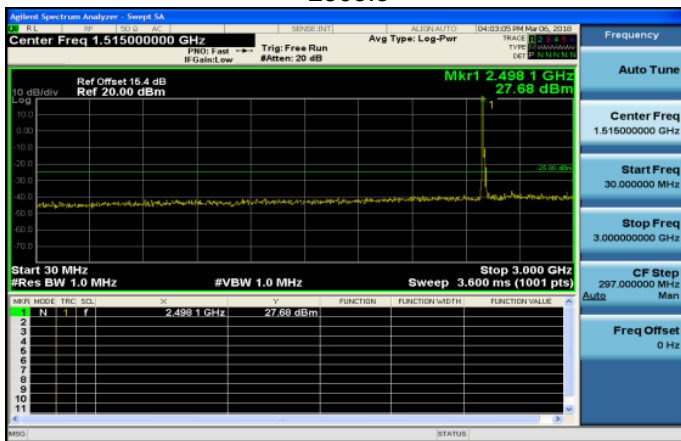
3GHz~10GHz_Band41_10MHz_QPSK_1_0_HighCH4154
0-2685



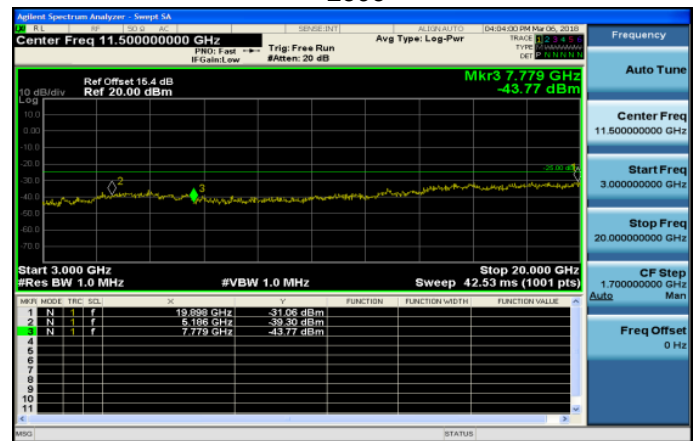
30MHz~3GHz_Band41_15MHz_QPSK_1_0_MidCH40620
-2593



30MHz~3GHz_Band41_15MHz_QPSK_1_0_LowCH39725
-2503.5



3GHz~10GHz_Band41_15MHz_QPSK_1_0_MidCH40620
-2593

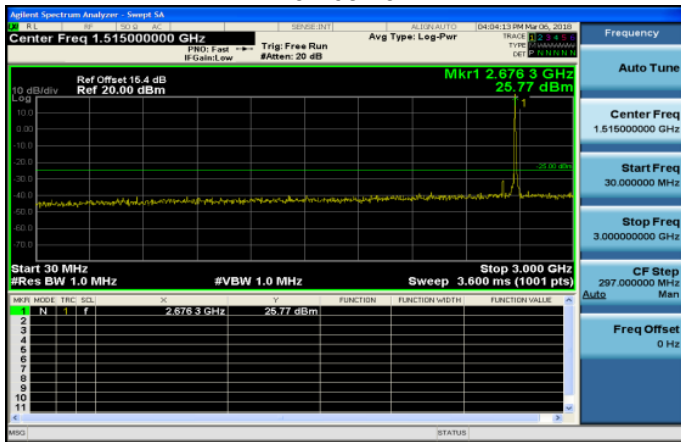


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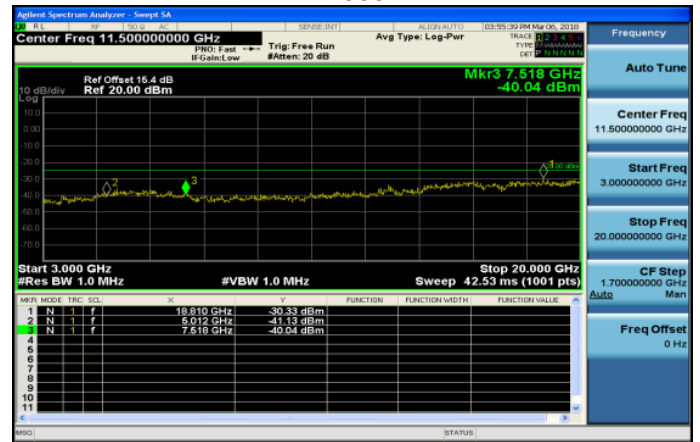
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30MHz~3GHz_Band41_15MHz_QPSK_1_0_HighCH4151
5-2682.5



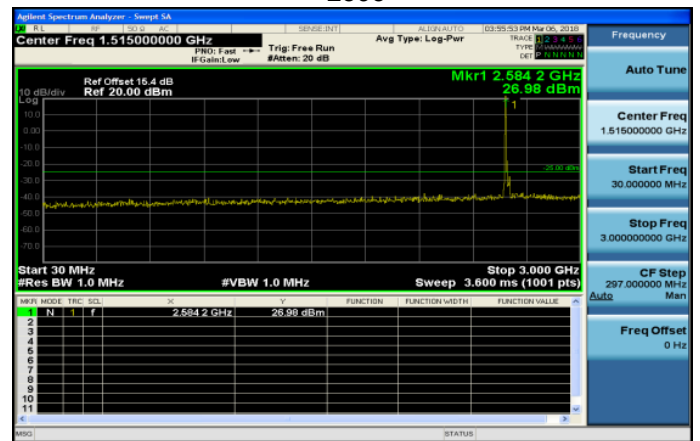
3GHz~10GHz_Band41_20MHz_QPSK_1_0_LowCH39750
-2506



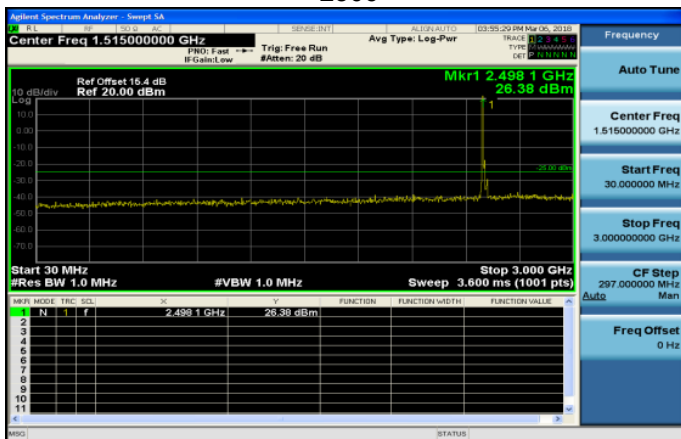
3GHz~10GHz_Band41_15MHz_QPSK_1_0_HighCH4151
5-2682.5



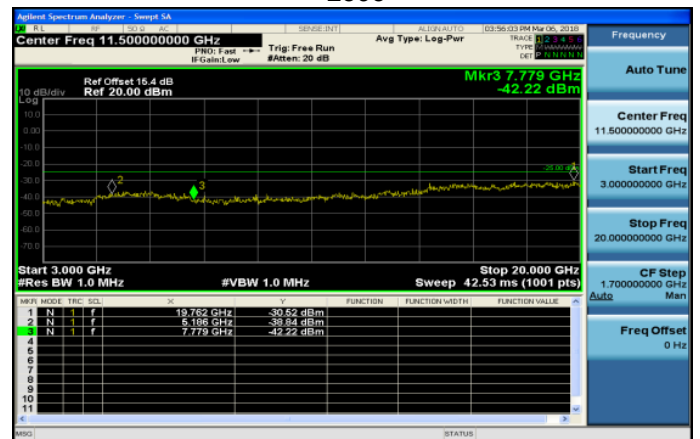
30MHz~3GHz_Band41_20MHz_QPSK_1_0_MidCH40620
-2593



30MHz~3GHz_Band41_20MHz_QPSK_1_0_LowCH39750
-2506



3GHz~10GHz_Band41_20MHz_QPSK_1_0_MidCH40620
-2593



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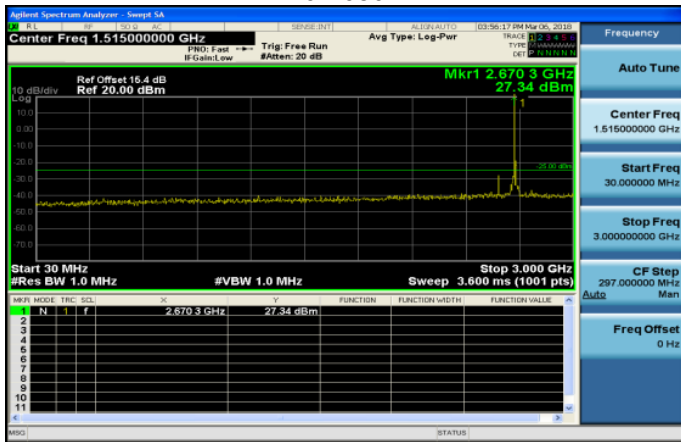
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30MHz~3GHz_Band41_20MHz_QPSK_1_0_HighCH4149
0-2680



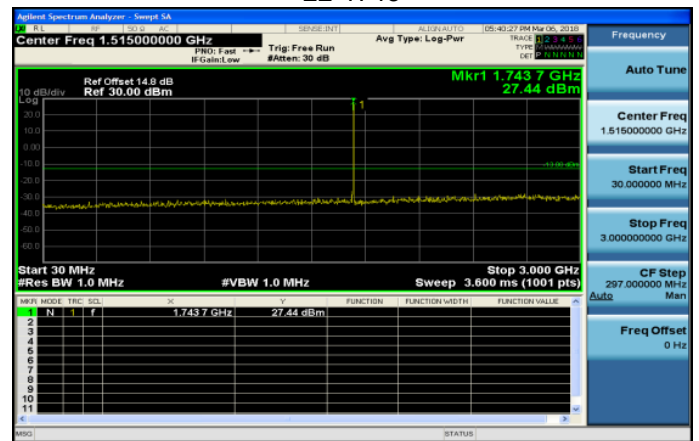
3GHz~10GHz_Band66_1_4MHz_QPSK_1_0_LowCH1319
79-1710.7



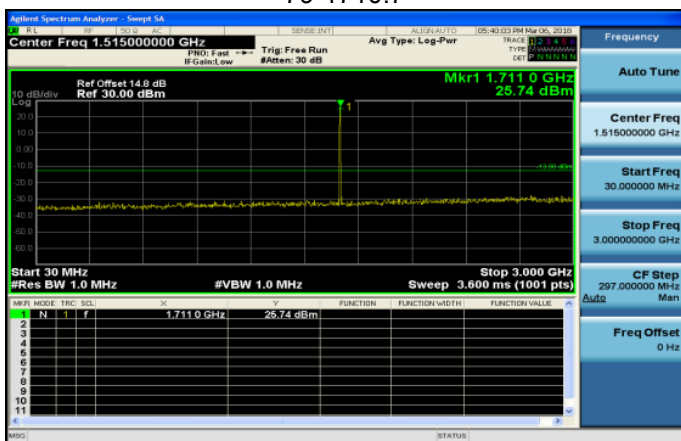
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0-2680



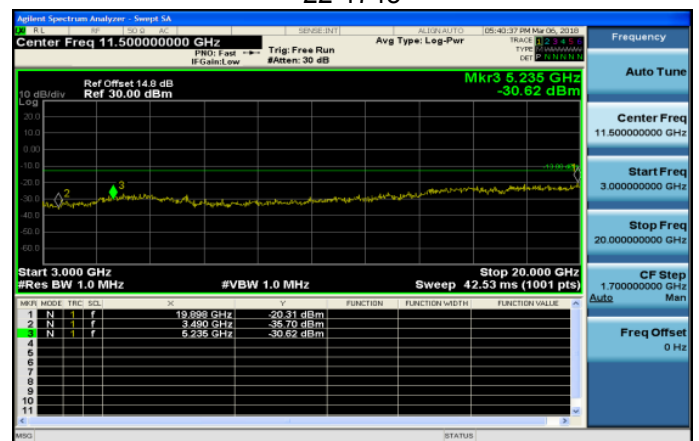
30MHz~3GHz_Band66_1_4MHz_QPSK_1_0_MidCH1323
22-1745



30MHz~3GHz_Band66_1_4MHz_QPSK_1_0_LowCH1319
79-1710.7



3GHz~10GHz_Band66_1_4MHz_QPSK_1_0_MidCH1323
22-1745

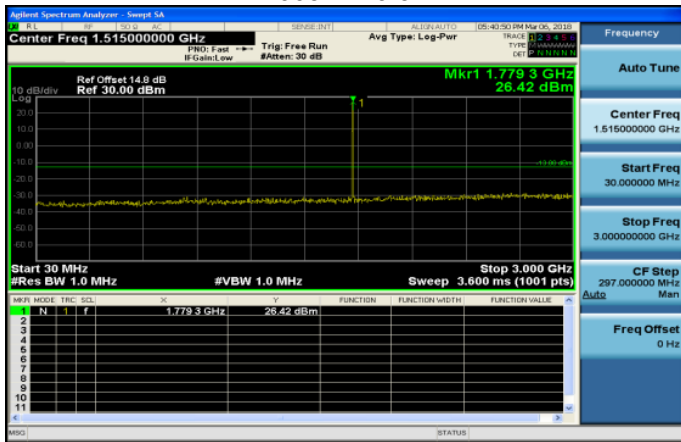


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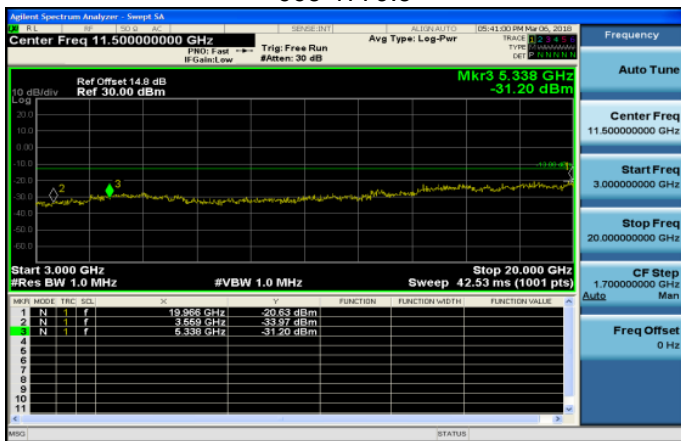
30MHz~3GHz_Band66_1_4MHz_QPSK_1_0_HighCH132
665-1779.3



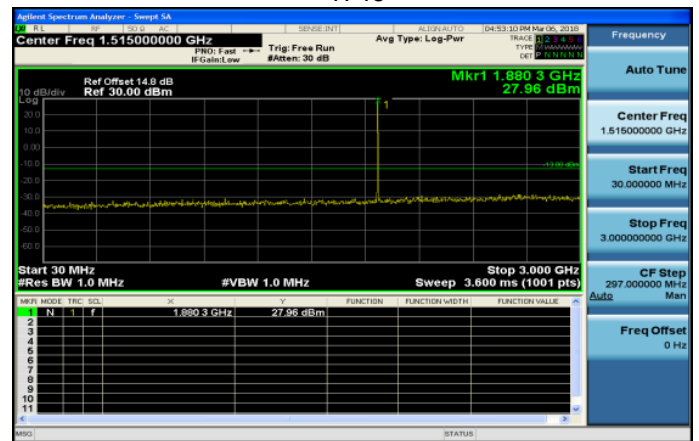
3GHz~10GHz_Band66_3MHz_QPSK_1_0_LowCH131987
-1711.5



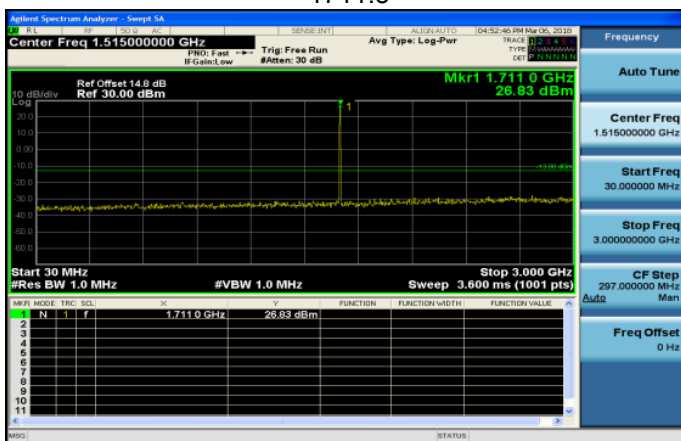
3GHz~10GHz_Band66_1_4MHz_QPSK_1_0_HighCH132
665-1779.3



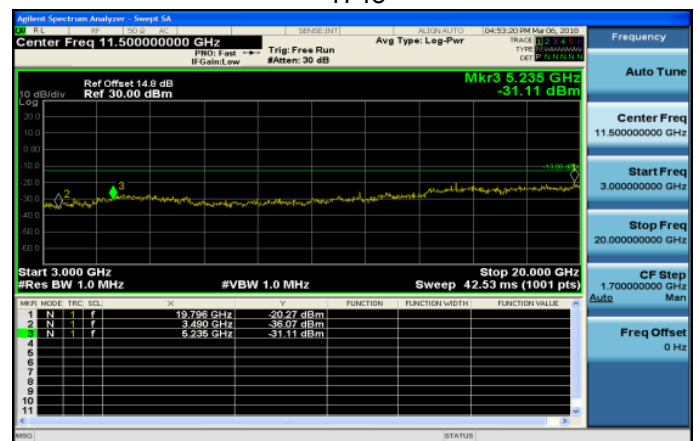
30MHz~3GHz_Band66_3MHz_QPSK_1_0_MidCH132322
-1745



30MHz~3GHz_Band66_3MHz_QPSK_1_0_LowCH131987
-1711.5



3GHz~10GHz_Band66_3MHz_QPSK_1_0_MidCH132322
-1745

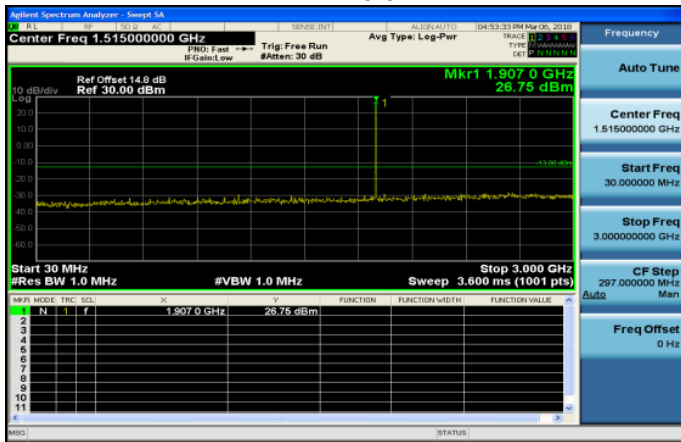


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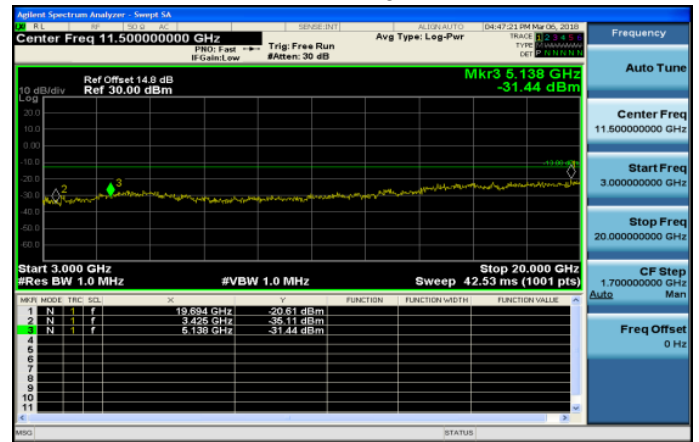
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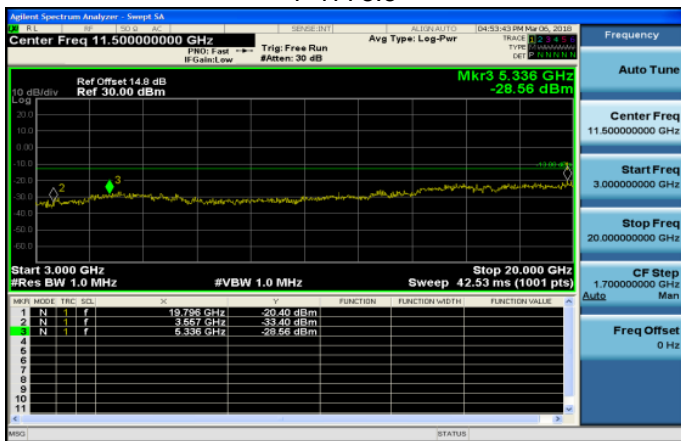
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7-1778.5



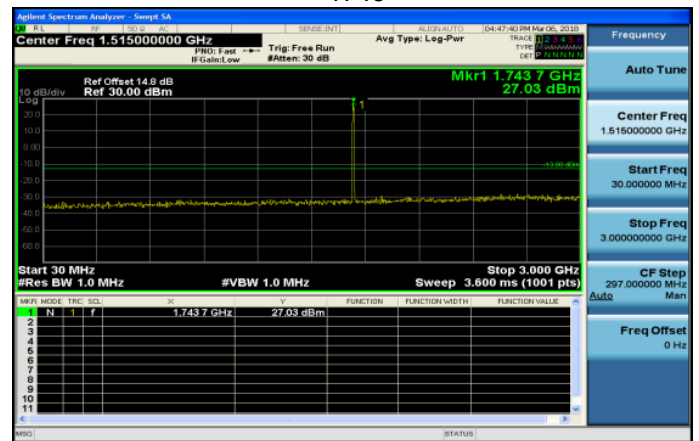
3GHz~10GHz_Band66_5MHz_QPSK_1_0_LowCH131997
-1712.5



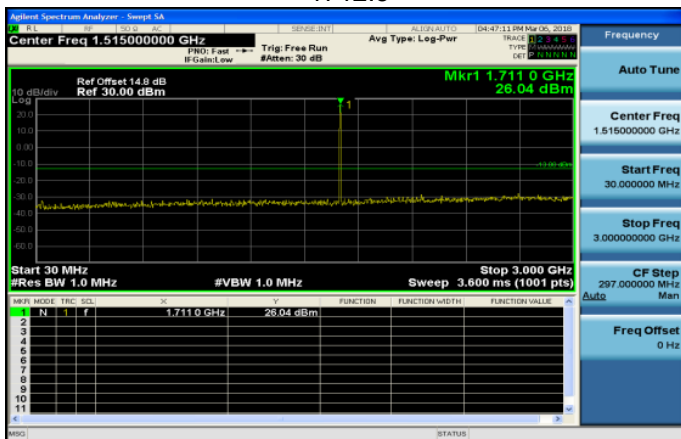
3GHz~10GHz_Band66_3MHz_QPSK_1_0_HighCH13265
7-1778.5



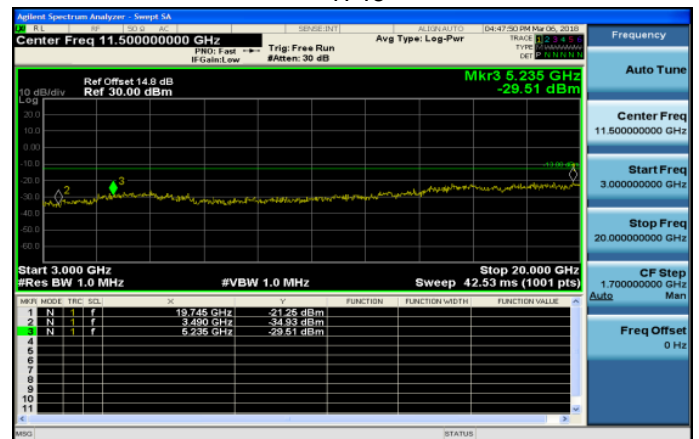
30MHz~3GHz_Band66_5MHz_QPSK_1_0_MidCH132322
-1745



30MHz~3GHz_Band66_5MHz_QPSK_1_0_LowCH131997
-1712.5



3GHz~10GHz_Band66_5MHz_QPSK_1_0_MidCH132322
-1745



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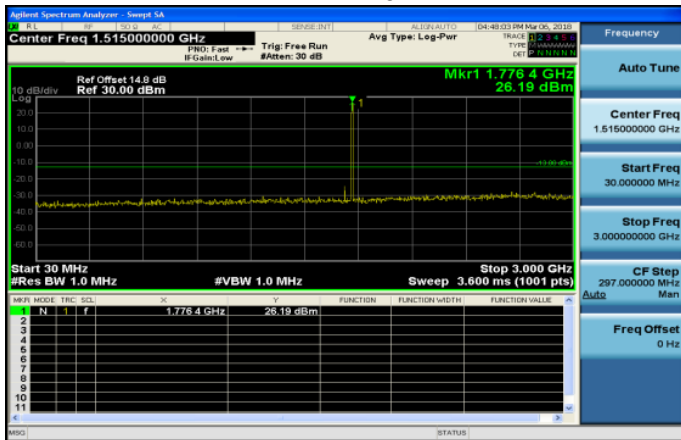
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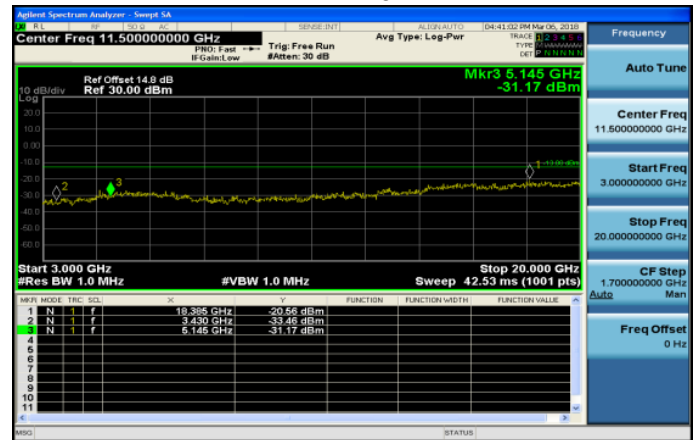
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30MHz~3GHz_Band66_5MHz_QPSK_1_0_HighCH13264
7-1777.5



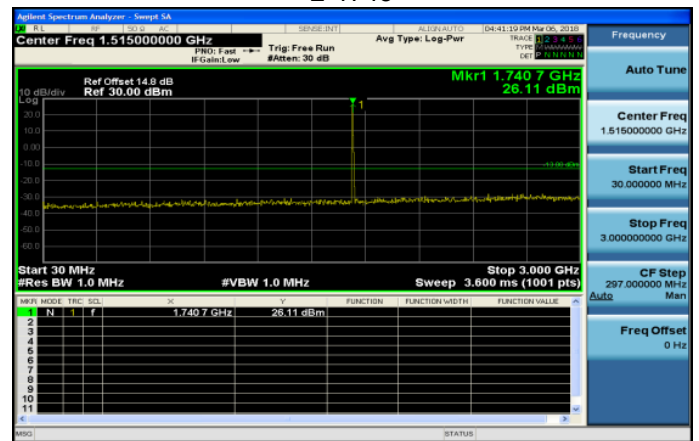
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2-1715



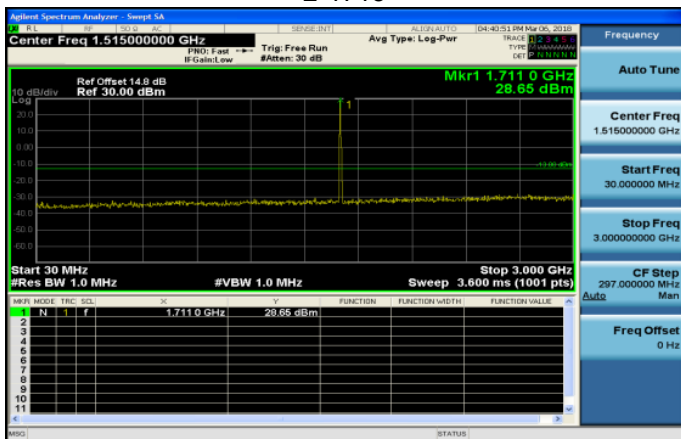
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7-1777.5



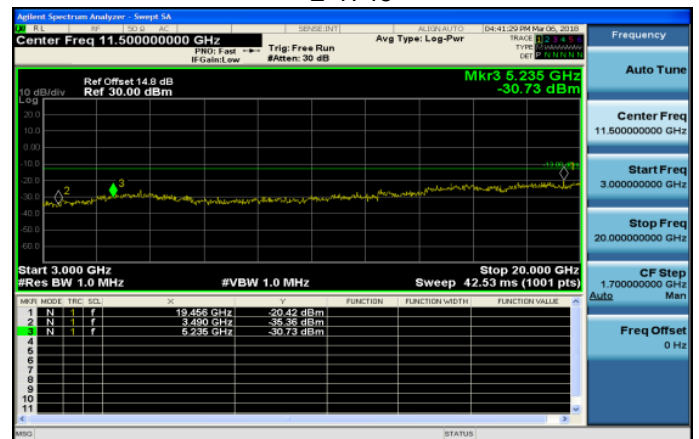
30MHz~3GHz_Band66_10MHz_QPSK_1_0_MidCH13232
2-1745



30MHz~3GHz_Band66_10MHz_QPSK_1_0_LowCH13202
2-1715



3GHz~10GHz_Band66_10MHz_QPSK_1_0_MidCH13232
2-1745

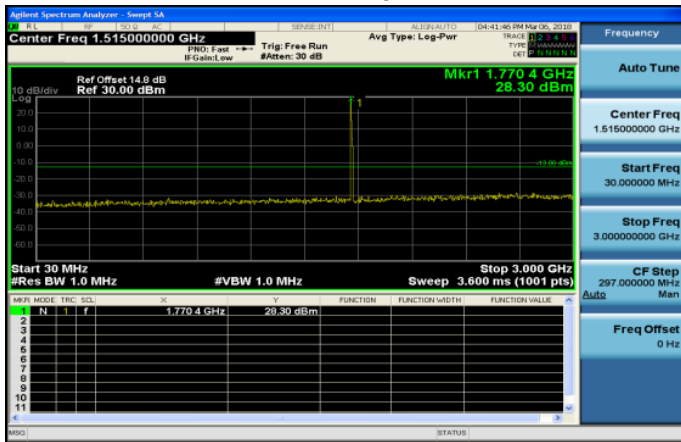


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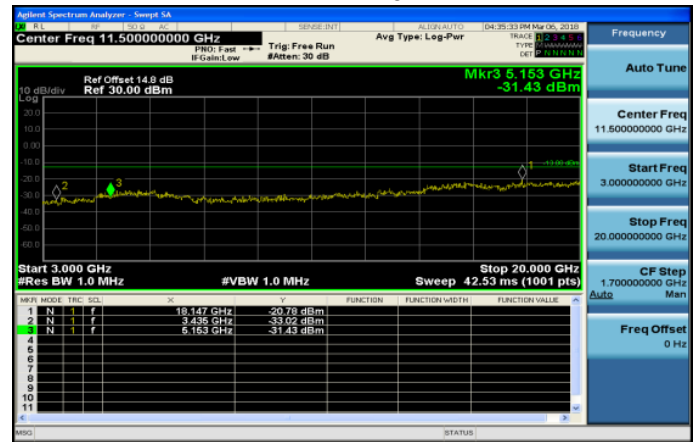
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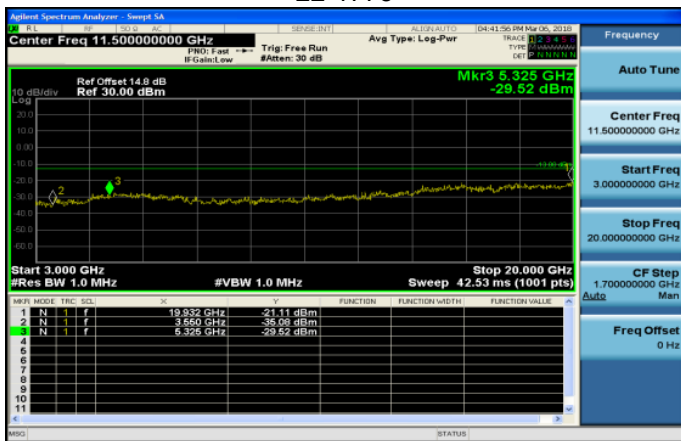
30MHz~3GHz_Band66_10MHz_QPSK_1_0_HighCH1326
22-1775



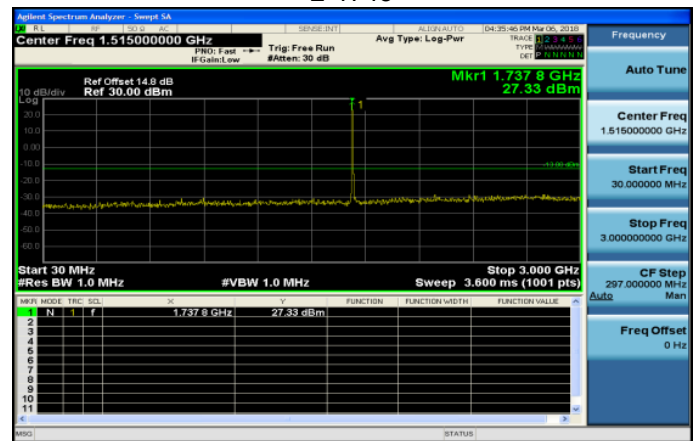
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7-1717.5



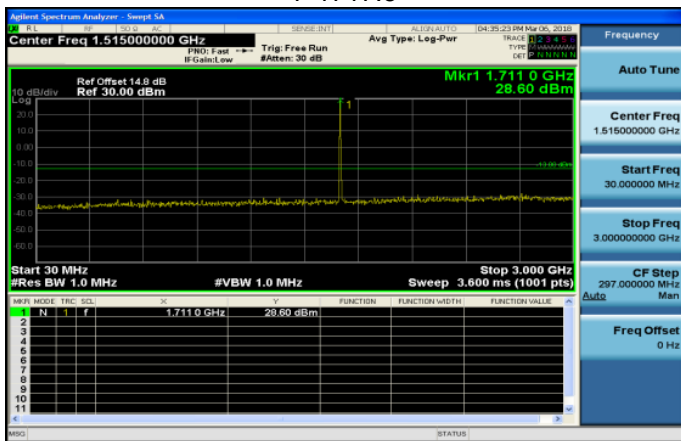
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22-1775



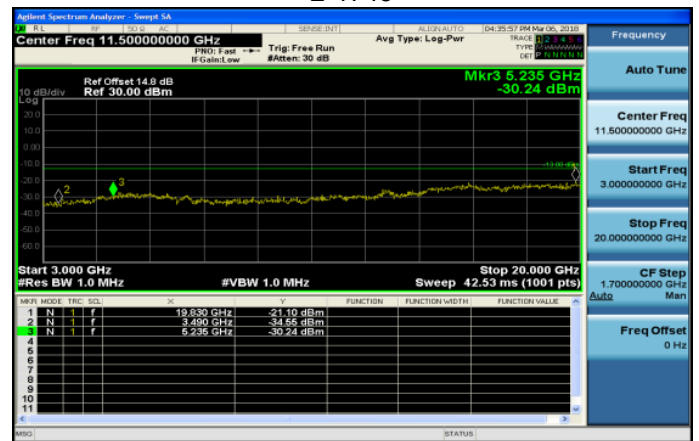
30MHz~3GHz_Band66_15MHz_QPSK_1_0_MidCH13232
2-1745



30MHz~3GHz_Band66_15MHz_QPSK_1_0_LowCH13204
7-1717.5



3GHz~10GHz_Band66_15MHz_QPSK_1_0_MidCH13232
2-1745

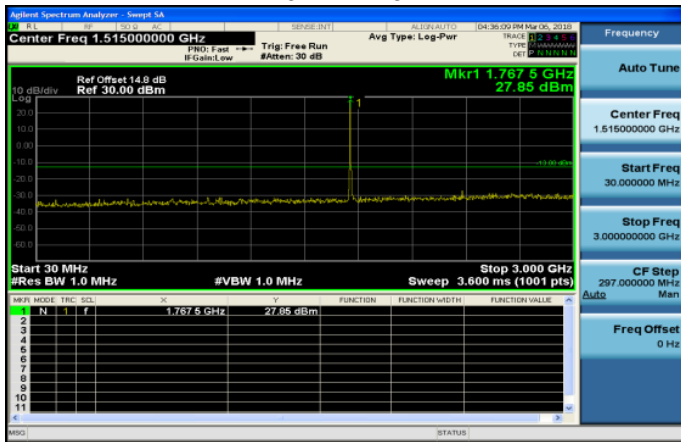


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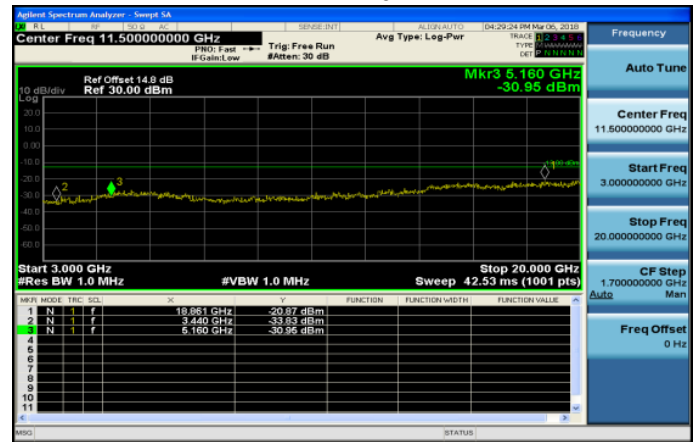
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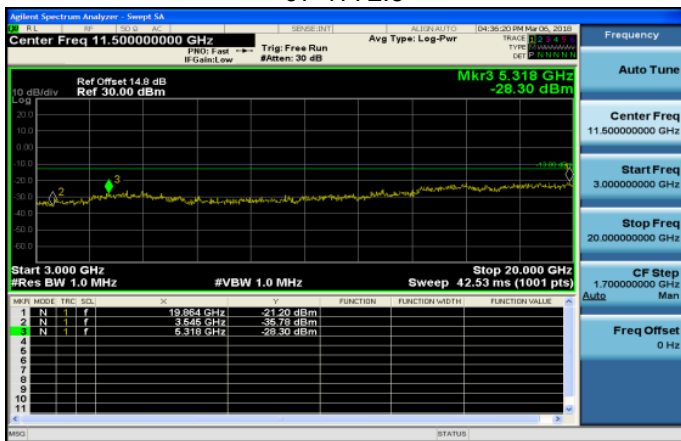
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97-1772.5



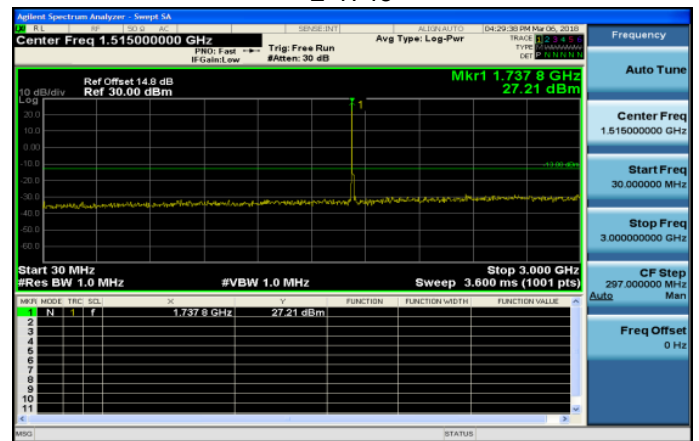
3GHz~10GHz_Band66_20MHz_QPSK_1_0_LowCH13207
2-1720



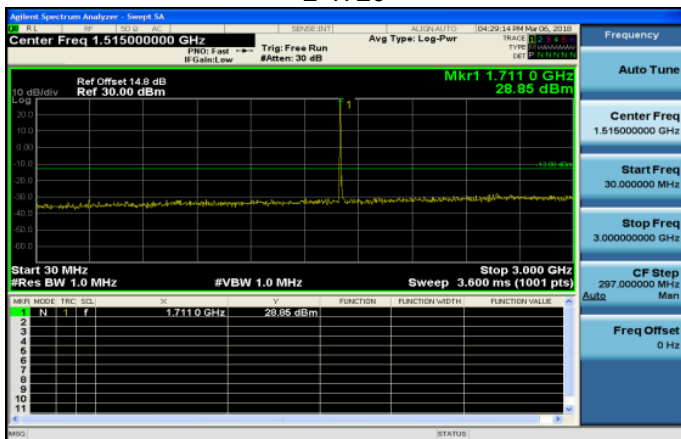
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97-1772.5



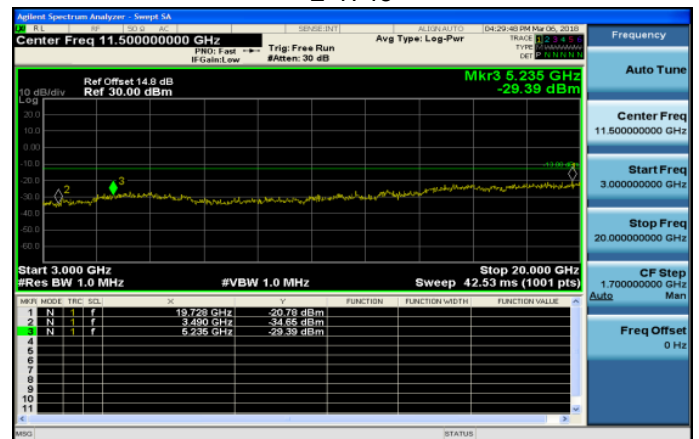
30MHz~3GHz_Band66_20MHz_QPSK_1_0_MidCH13232
2-1745



30MHz~3GHz_Band66_20MHz_QPSK_1_0_LowCH13207
2-1720



3GHz~10GHz_Band66_20MHz_QPSK_1_0_MidCH13232
2-1745



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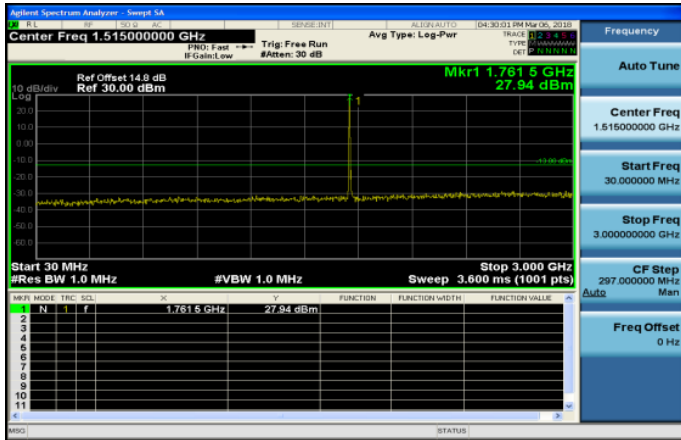
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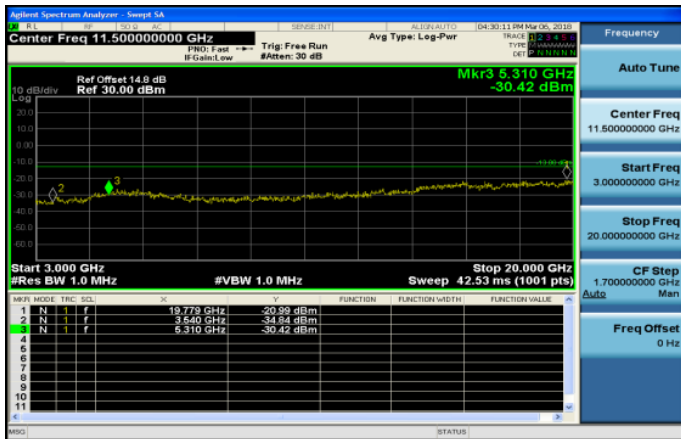
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30MHz~3GHz_Band66_20MHz_QPSK_1_0_HighCH1325
72-1770



3GHz~10GHz_Band66_20MHz_QPSK_1_0_HighCH1325
72-1770



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10. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

10.1. 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(g) For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log (P)$ dB. 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(c) (5)

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.

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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.

FCC §27.53(m) (4) (6)

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

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

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

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

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

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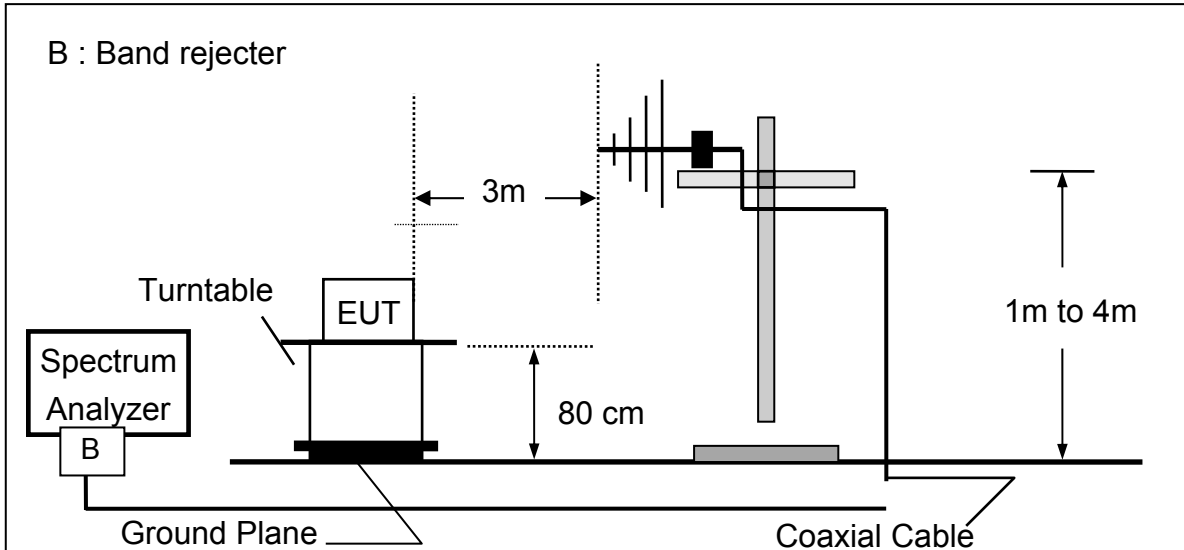
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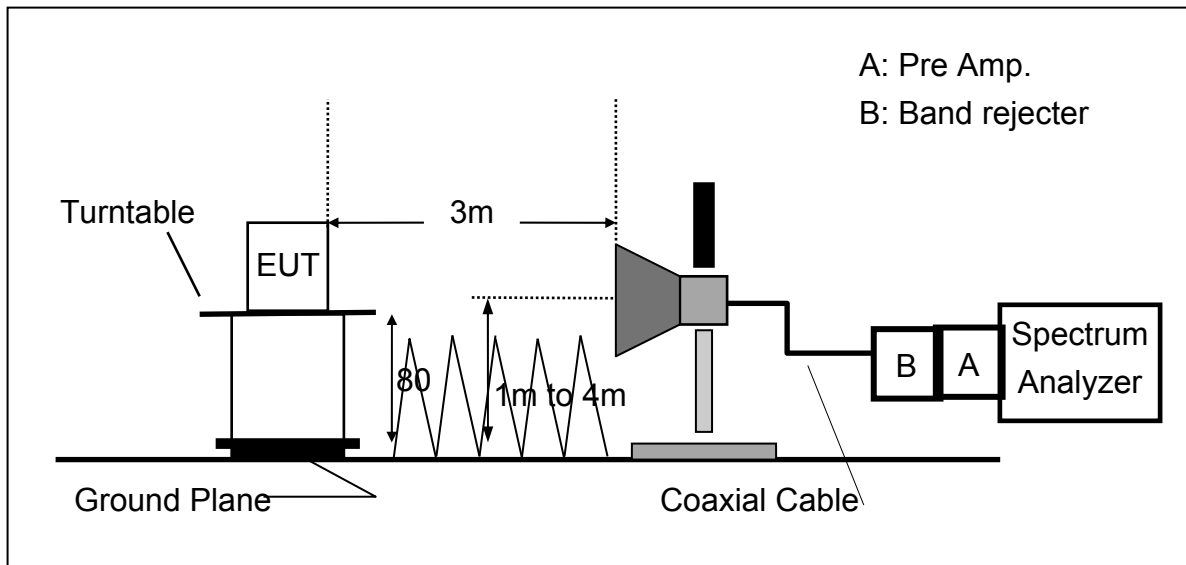
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10.2. EUT Setup

Radiated Emission Test Set-Up, Frequency Below 1000MHz



Radiated Emission Test Set-UP Frequency Over 1 GHz



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10.3. Measurement Procedure:

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

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

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

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

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

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---” : denotes Noise Floor.

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10.4. Measurement Equipment Used:

ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Bi-log Antenna	SCHWAZBECK	VULB9168	378	2017/12/29	2018/12/28
Bi-log Antenna	SCHWAZBECK	VULB9168	300	2017/12/20	2018/12/19
Horn Antenna	Schwarzbeck	BBHA9120D	309	2018/01/04	2019/1/3
Horn Antenna	Schwarzbeck	BBHA9120D	1441	2017/08/04	2018/8/3
Spectrum Analyzer	Agilent	E4446A	MY51100003	2017/05/10	2018/5/9
EMI Test Receiver	R&S	ESCI7	100760	2017/06/06	2018/6/5
Network Analyze	Anritsu	MS4644A	1216312	2017/05/25	2018/5/24
Radio Communication Analyzer	Anritsu	MT8820C	6201465317	01/15/2018	01/14/2019
Pre-Amplifier	HP	8449B	3008A00578	2018/01/02	2019/1/1
Pre-Amplifier	HP	8447D	2944A07676	2018/01/02	2019/1/1
Attenuator	Mini-Circuit	BW-S10W2+		2018/01/02	2019/1/1
Filter 800-1000	Micro-Tronics	EWT	M1	2018/01/02	2019/1/1
1GHz High Pass Filter	Micro-Tronics	HPM50108	32	2018/01/02	2019/1/1
Low Loss Cable	Huber Suhner	966_RX	9	2018/01/02	2019/1/1
Low Loss Cable	Huber Suhner	966_TX	1	2018/01/02	2019/1/1
Bi-log Antenna	SCHWAZBECK	VULB9168	378	2017/12/29	2018/12/28
Bi-log Antenna	SCHWAZBECK	VULB9168	300	2017/12/20	2018/12/19
Horn Antenna	Schwarzbeck	BBHA9120D	309	2018/01/04	2019/1/3
Horn Antenna	Schwarzbeck	BBHA9120D	1441	2017/08/04	2018/8/3
Spectrum Analyzer	Agilent	E4446A	MY51100003	2017/05/10	2018/5/9
EMI Test Receiver	R&S	ESCI7	100760	2017/06/06	2018/6/5
Network Analyze	Anritsu	MS4644A	1216312	2017/05/25	2018/5/24
Radio Communication Analyzer	Anritsu	MT8820C	6201465317	01/15/2018	01/14/2019
Pre-Amplifier	HP	8449B	3008A00578	2018/01/02	2019/1/1
Pre-Amplifier	HP	8447D	2944A07676	2018/01/02	2019/1/1
Attenuator	Mini-Circuit	BW-S10W2+		2018/01/02	2019/1/1
Filter 800-1000	Micro-Tronics	EWT	M1	2018/01/02	2019/1/1

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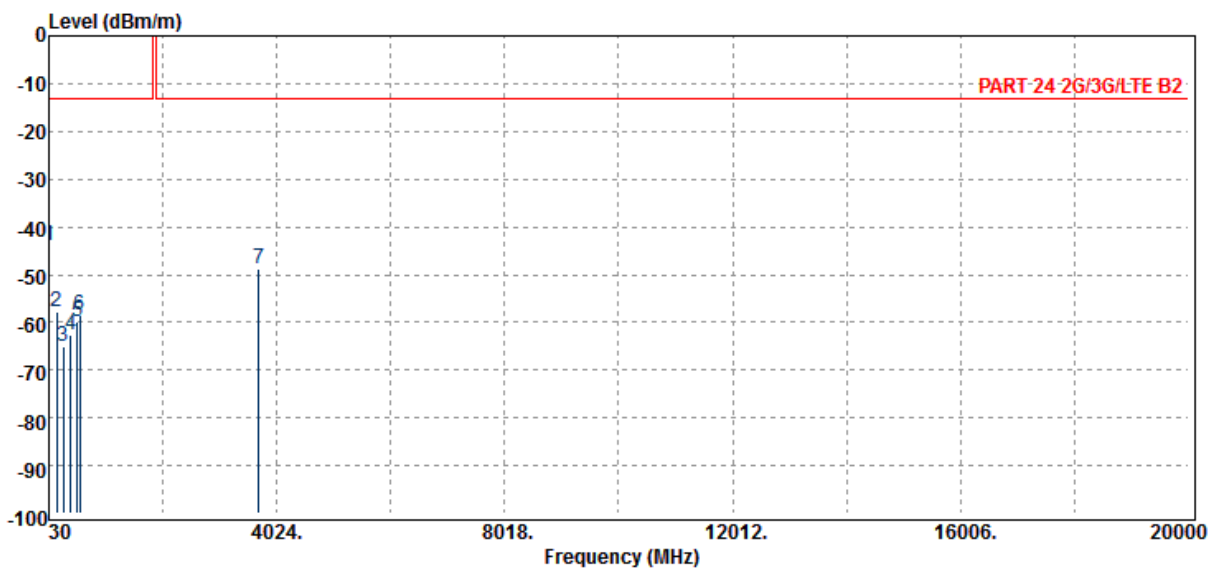
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10.5. Measurement Result:

Radiated Spurious Emission Measurement Result: HSDPA Band 2 Mode

Operation Band	:HSDPA B2	Temp./Humi.	:22 deg_C / 62 RH
Fundamental Frequency	:1852.4 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:E2 Plane	Measurement Pol.	Antenna :VERTICAL



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
32.91	S	-44.11	-29.67	-13.84	-0.60	-13.00	-31.11
168.71	S	-57.89	-55.87	-0.70	-1.33	-13.00	-44.89
285.11	S	-65.16	-66.82	3.42	-1.76	-13.00	-52.16
418.00	S	-62.58	-64.12	3.65	-2.11	-13.00	-49.58
532.46	S	-59.94	-61.68	4.01	-2.27	-13.00	-46.94
571.26	S	-58.36	-59.49	3.79	-2.65	-13.00	-45.36
3704.80	H	-48.77	-54.43	12.57	-6.90	-13.00	-35.77

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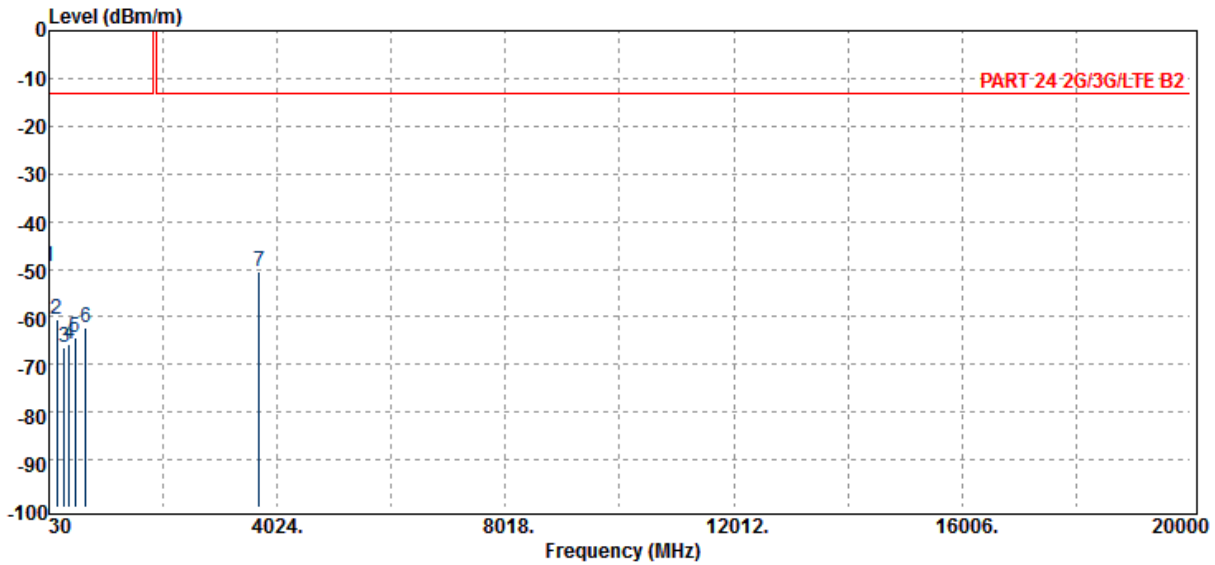
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Operation Band	:HSDPA B2	Temp./Humi.	:22 deg_C / 62 RH
Fundamental Frequency	:1852.4 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



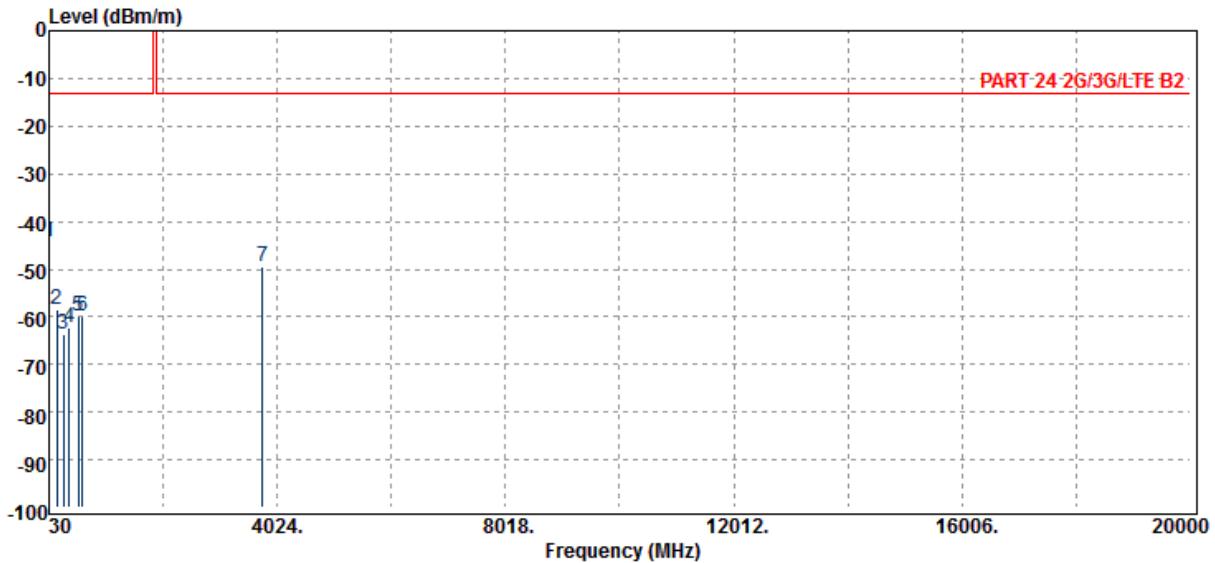
Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	S	-49.53	-34.37	-14.58	-0.58	-13.00	-36.53
170.65	S	-60.72	-58.87	-0.51	-1.33	-13.00	-47.72
296.75	S	-66.53	-68.27	3.55	-1.81	-13.00	-53.53
381.14	S	-65.91	-67.65	3.77	-2.02	-13.00	-52.91
481.05	S	-64.49	-66.39	3.86	-1.96	-13.00	-51.49
670.20	S	-62.21	-63.66	3.77	-2.31	-13.00	-49.21
3704.80	H	-50.55	-56.21	12.57	-6.90	-13.00	-37.55

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Operation Band	:HSDPA B2	Temp./Humi.	:22 deg_C / 62 RH
Fundamental Frequency	:1880 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID	Measurement Antenna	:VERTICAL
EUT Pol.	:E2 Plane	Pol.	



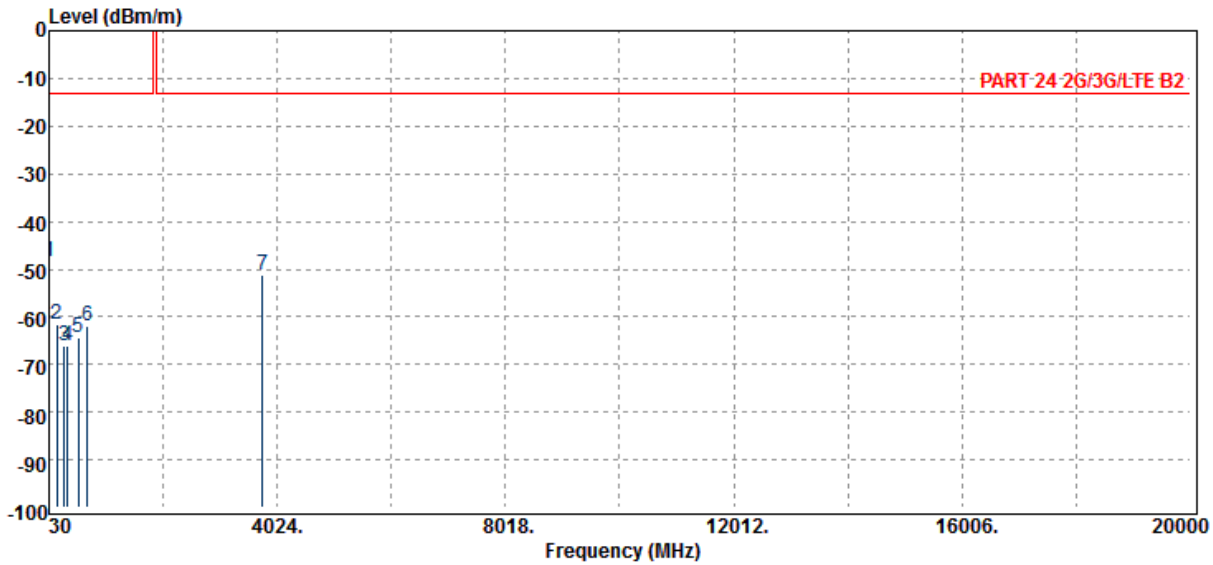
Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
31.94	S	-44.31	-29.64	-14.08	-0.59	-13.00	-31.31
172.59	S	-58.37	-56.83	-0.20	-1.34	-13.00	-45.37
285.11	S	-63.54	-65.20	3.42	-1.76	-13.00	-50.54
381.14	S	-62.31	-64.06	3.77	-2.02	-13.00	-49.31
542.16	S	-60.00	-62.13	3.99	-1.87	-13.00	-47.00
614.91	S	-59.76	-60.91	3.63	-2.47	-13.00	-46.76
3760.00	H	-49.40	-55.13	12.61	-6.89	-13.00	-36.40

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Operation Band	:HSDPA B2	Temp./Humi.	:22 deg_C / 62 RH
Fundamental Frequency	:1880 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



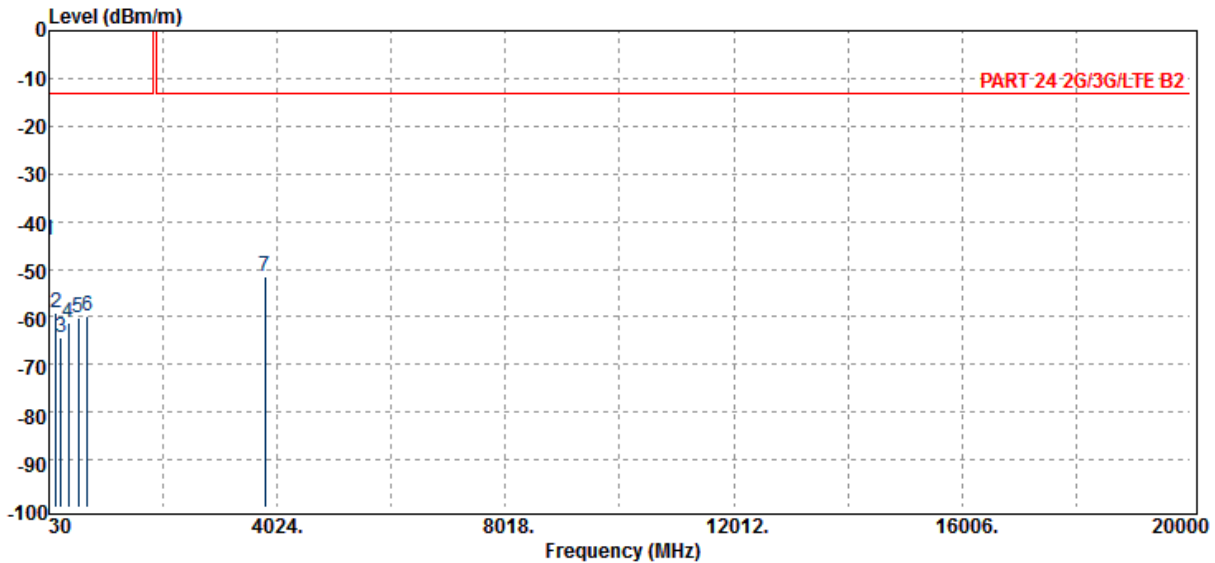
Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	S	-48.30	-33.14	-14.58	-0.58	-13.00	-35.30
170.65	S	-61.67	-59.82	-0.51	-1.33	-13.00	-48.67
299.66	S	-65.97	-67.75	3.61	-1.82	-13.00	-52.97
354.95	S	-66.21	-68.01	3.84	-2.04	-13.00	-53.21
546.04	S	-64.46	-66.64	3.99	-1.81	-13.00	-51.46
696.39	S	-61.94	-63.17	3.69	-2.46	-13.00	-48.94
3760.00	H	-51.15	-56.88	12.61	-6.89	-13.00	-38.15

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Operation Band :HSDPA B2 Temp./Humi. :22 deg_C / 62 RH
 Fundamental Frequency :1907.6 MHz Engineer :Tin
 Operation Mode :Tx CH HIGH
 EUT Pol. :E2 Plane Measurement Antenna Pol.:VERTICAL



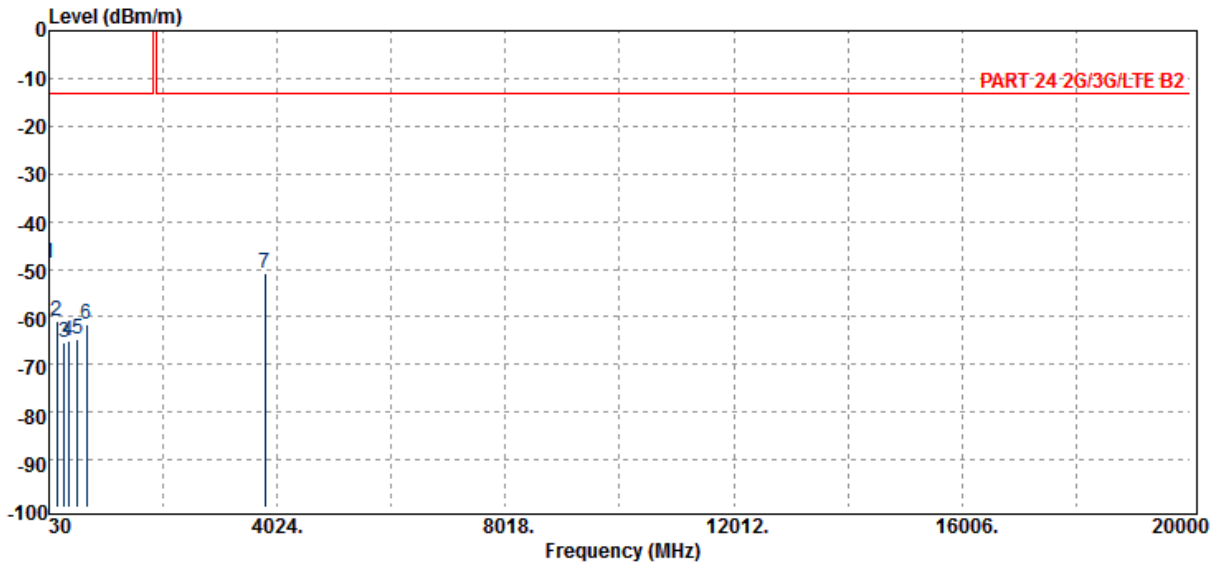
Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
31.94	S	-43.90	-29.22	-14.08	-0.59	-13.00	-30.90
153.19	S	-59.24	-56.33	-1.62	-1.30	-13.00	-46.24
241.46	S	-64.33	-66.14	3.49	-1.68	-13.00	-51.33
367.56	S	-61.41	-63.15	3.80	-2.06	-13.00	-48.41
544.10	S	-60.35	-62.55	3.99	-1.79	-13.00	-47.35
696.39	S	-59.81	-61.04	3.69	-2.46	-13.00	-46.81
3815.20	H	-51.71	-57.36	12.66	-7.00	-13.00	-38.71

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Operation Band :HSDPA B2 Temp./Humi. :22 deg_C / 62 RH
 Fundamental Frequency :1907.6 MHz Engineer :Tin
 Operation Mode :Tx CH HIGH
 EUT Pol. :E2 Plane Measurement Antenna Pol.:HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	S	-48.89	-33.73	-14.58	-0.58	-13.00	-35.89
172.59	S	-60.78	-59.24	-0.20	-1.34	-13.00	-47.78
299.66	S	-65.40	-67.19	3.61	-1.82	-13.00	-52.40
371.44	S	-65.19	-66.93	3.79	-2.05	-13.00	-52.19
532.46	S	-64.67	-66.41	4.01	-2.27	-13.00	-51.67
692.51	S	-61.60	-62.54	3.70	-2.76	-13.00	-48.60
3815.20	H	-51.04	-56.69	12.66	-7.00	-13.00	-38.04

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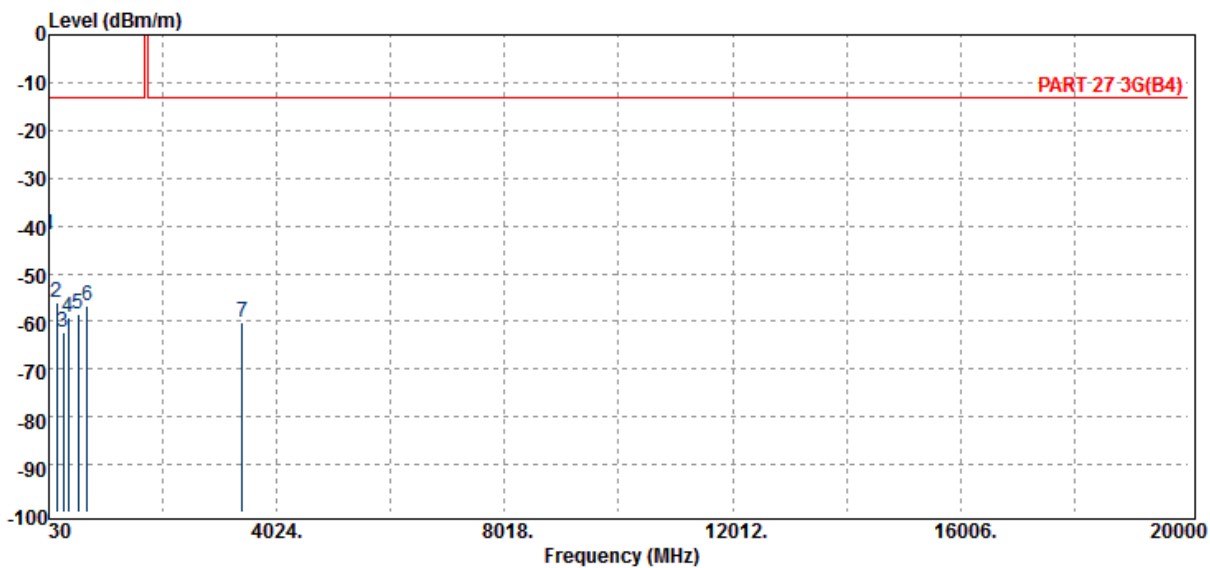
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Radiated Spurious Emission Measurement Result: HSUPA Band 4 Mode

Operation Band	:HSUPA B4	Temp./Humi.	:22 deg_C / 62 RH
Fundamental Frequency	:1712.4 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:E2 Plane	Measurement Pol.	Antenna :VERTICAL



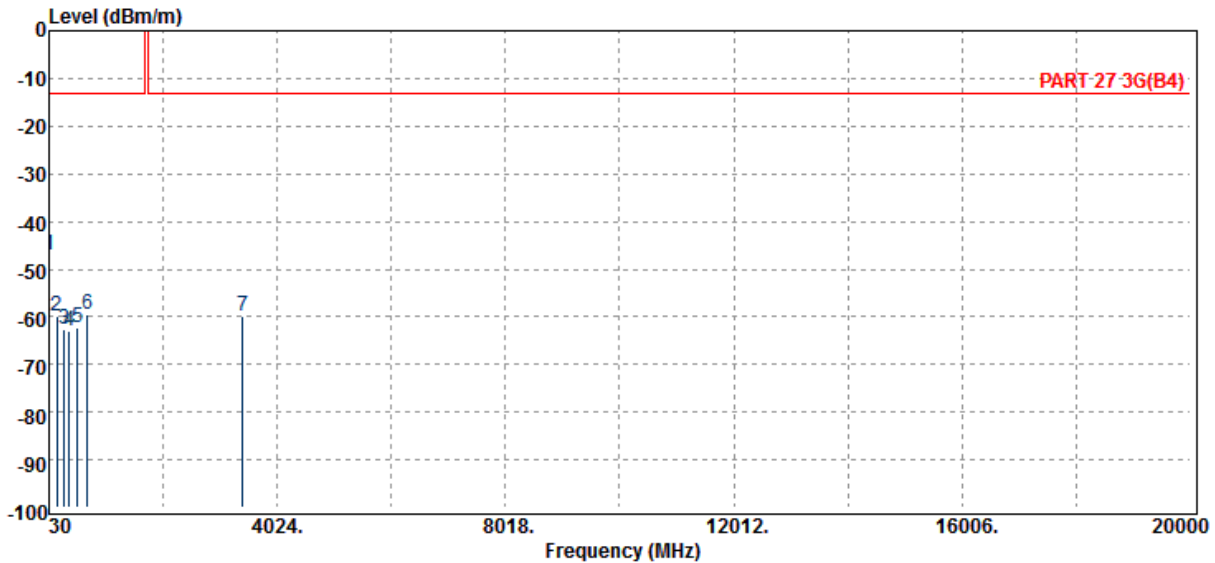
Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
32.91	S	-42.02	-27.57	-13.84	-0.60	-13.00	-29.02
167.74	S	-55.89	-53.81	-0.76	-1.32	-13.00	-42.89
285.11	S	-62.22	-63.88	3.42	-1.76	-13.00	-49.22
364.65	S	-59.26	-61.00	3.81	-2.07	-13.00	-46.26
547.01	S	-58.43	-60.55	3.98	-1.86	-13.00	-45.43
696.39	S	-56.73	-57.96	3.69	-2.46	-13.00	-43.73
3424.80	H	-60.21	-65.89	12.23	-6.54	-13.00	-47.21

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Operation Band	:HSUPA B4	Temp./Humi.	:22 deg_C / 62 RH
Fundamental Frequency	:1712.4 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



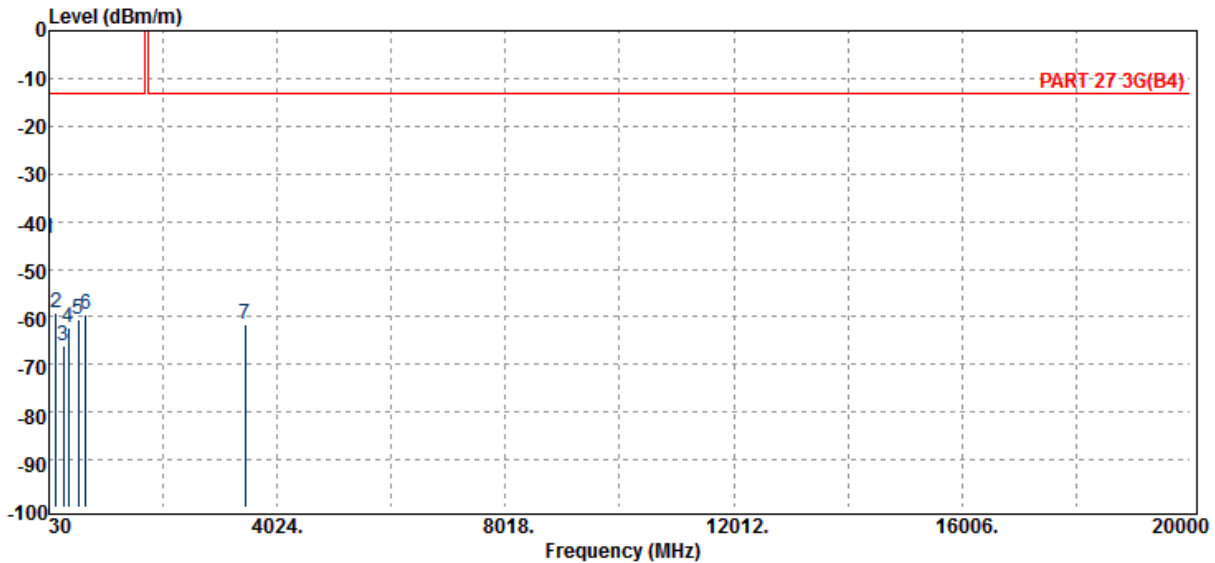
Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	S	-47.03	-31.87	-14.58	-0.58	-13.00	-34.03
168.71	S	-59.74	-57.72	-0.70	-1.33	-13.00	-46.74
299.66	S	-62.70	-64.48	3.61	-1.82	-13.00	-49.70
385.02	S	-63.14	-64.89	3.75	-2.01	-13.00	-50.14
529.55	S	-62.42	-64.04	4.01	-2.39	-13.00	-49.42
697.36	S	-59.36	-60.66	3.68	-2.38	-13.00	-46.36
3424.80	H	-59.93	-65.62	12.23	-6.54	-13.00	-46.93

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Operation Band	:HSUPA B4	Temp./Humi.	:22 deg_C / 62 RH
Fundamental Frequency	:1732.6 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



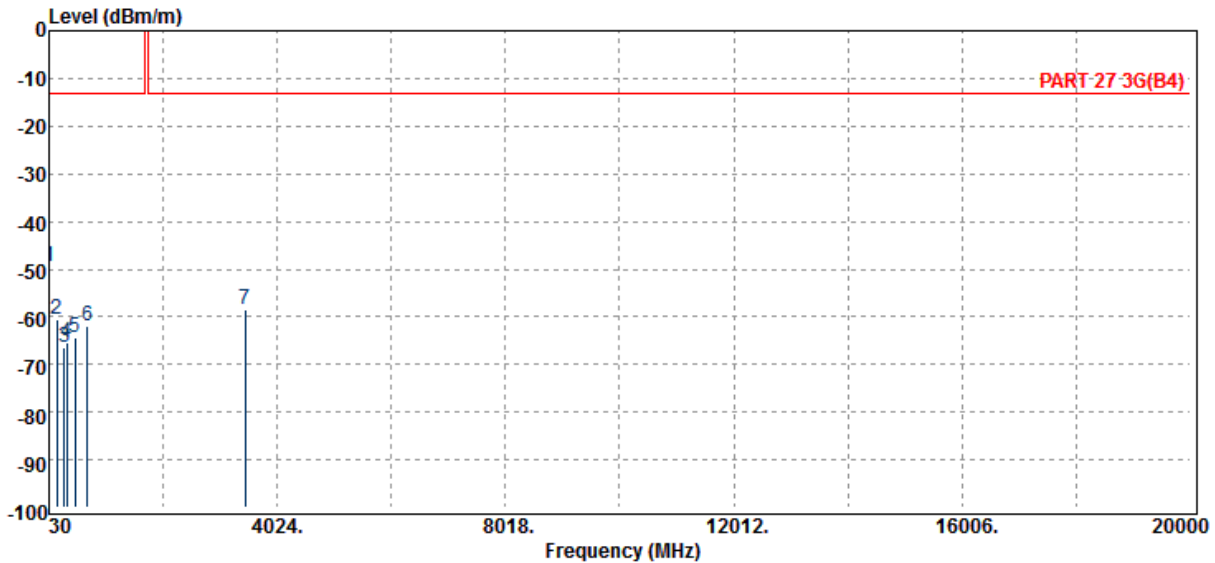
Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
31.94	S	-43.53	-28.85	-14.08	-0.59	-13.00	-30.53
151.25	S	-59.03	-56.01	-1.73	-1.29	-13.00	-46.03
280.26	S	-66.01	-67.68	3.42	-1.75	-13.00	-53.01
374.35	S	-62.33	-64.08	3.78	-2.04	-13.00	-49.33
536.34	S	-60.40	-62.29	4.00	-2.11	-13.00	-47.40
672.14	S	-59.52	-60.84	3.76	-2.45	-13.00	-46.52
3465.20	H	-61.56	-67.32	12.32	-6.56	-13.00	-48.56

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Operation Band	:HSUPA B4	Temp./Humi.	:22 deg_C / 62 RH
Fundamental Frequency	:1732.6 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID	Measurement Antenna	:HORIZONTAL
EUT Pol.	:E2 Plane	Pol.	



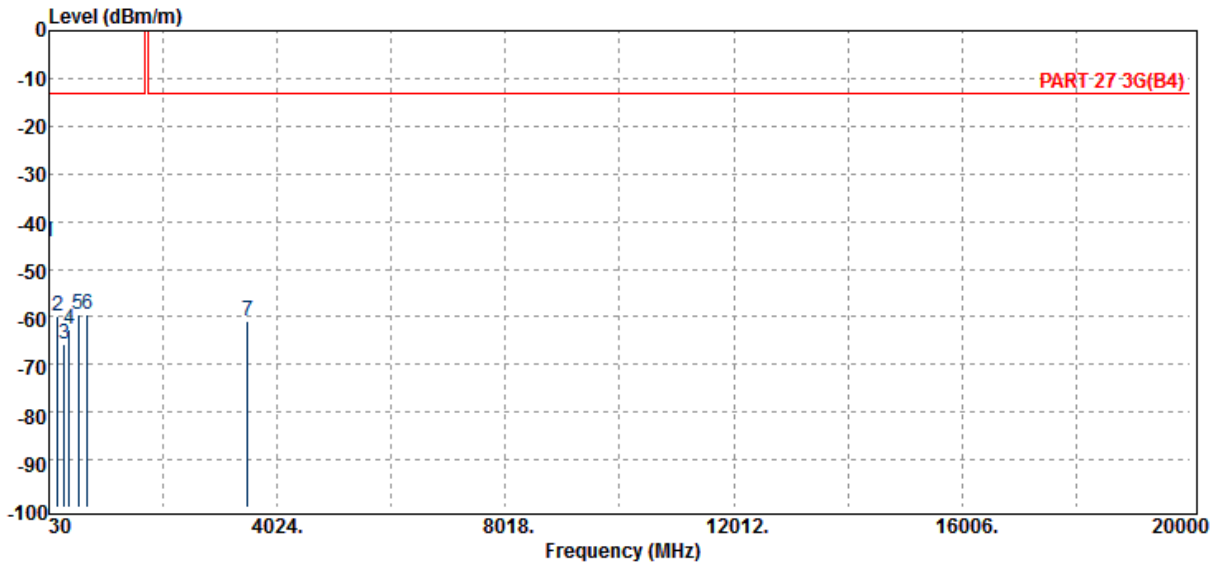
Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
31.94	S	-49.51	-34.84	-14.08	-0.59	-13.00	-36.51
170.65	S	-60.53	-58.68	-0.51	-1.33	-13.00	-47.53
294.81	S	-66.47	-68.18	3.52	-1.80	-13.00	-53.47
335.55	S	-65.29	-67.13	3.79	-1.95	-13.00	-52.29
487.84	S	-64.49	-66.53	3.93	-1.89	-13.00	-51.49
697.36	S	-62.04	-63.34	3.68	-2.38	-13.00	-49.04
3465.20	H	-58.34	-64.10	12.32	-6.56	-13.00	-45.34

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Operation Band	:HSUPA B4	Temp./Humi.	:22 deg_C / 62 RH
Fundamental Frequency	:1752.6 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH	Measurement	Antenna:VERTICAL
EUT Pol.	:E2 Plane	Pol.	



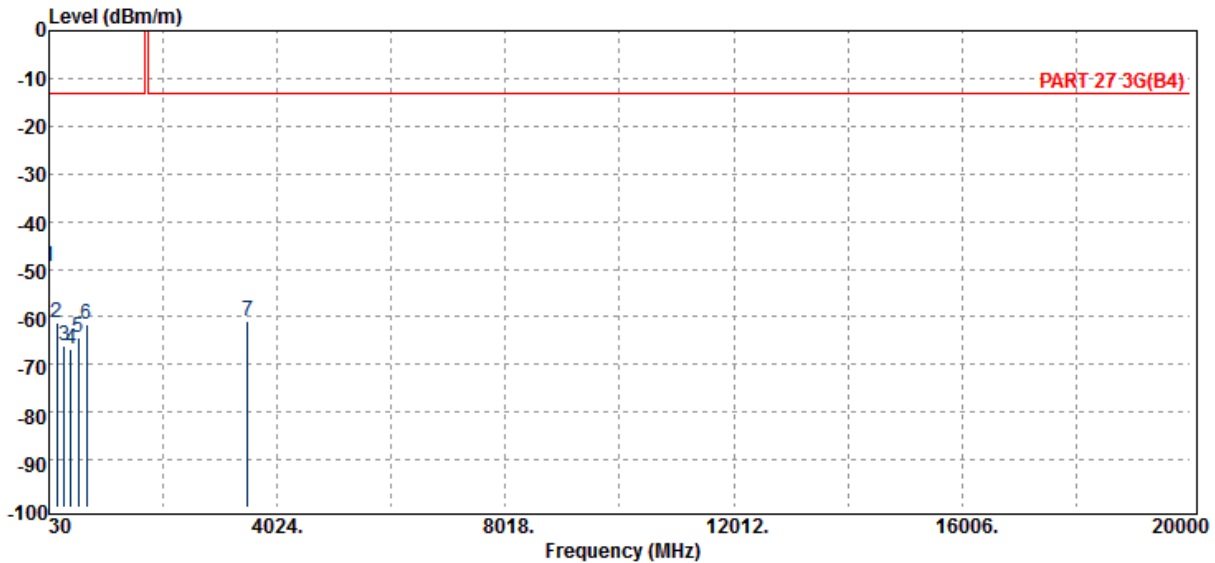
Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
31.94	S	-44.13	-29.46	-14.08	-0.59	-13.00	-31.13
178.41	S	-59.77	-59.12	0.73	-1.37	-13.00	-46.77
299.66	S	-65.76	-67.54	3.61	-1.82	-13.00	-52.76
386.96	S	-62.49	-64.21	3.75	-2.02	-13.00	-49.49
536.34	S	-59.54	-61.43	4.00	-2.11	-13.00	-46.54
696.39	S	-59.53	-60.75	3.69	-2.46	-13.00	-46.53
3505.20	H	-60.82	-66.57	12.40	-6.66	-13.00	-47.82

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Operation Band	:HSUPA B4	Temp./Humi.	:22 deg_C / 62 RH
Fundamental Frequency	:1752.6 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	S	-49.46	-34.30	-14.58	-0.58	-13.00	-36.46
170.65	S	-61.33	-59.48	-0.51	-1.33	-13.00	-48.33
296.75	S	-65.95	-67.70	3.55	-1.81	-13.00	-52.95
411.21	S	-66.69	-68.24	3.67	-2.13	-13.00	-53.69
548.95	S	-64.31	-66.32	3.98	-1.97	-13.00	-51.31
691.54	S	-61.48	-62.35	3.70	-2.83	-13.00	-48.48
3505.20	H	-61.00	-66.74	12.40	-6.66	-13.00	-48.00

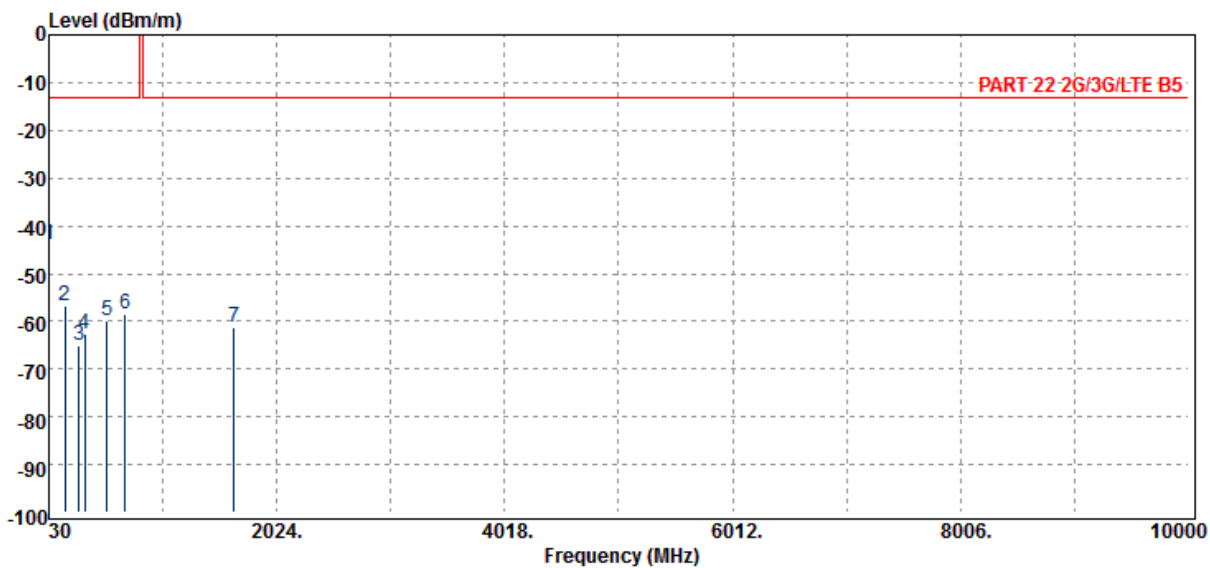
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Radiated Spurious Emission Measurement Result: HSUPA Band 5 Mode

Operation Band	:HSUPA B5	Temp./Humi.	:24 deg_C / 61 RH
Fundamental Frequency	:826.4 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW	Measurement Pol.	Antenna :VERTICAL
EUT Pol.	:E2 Plane		



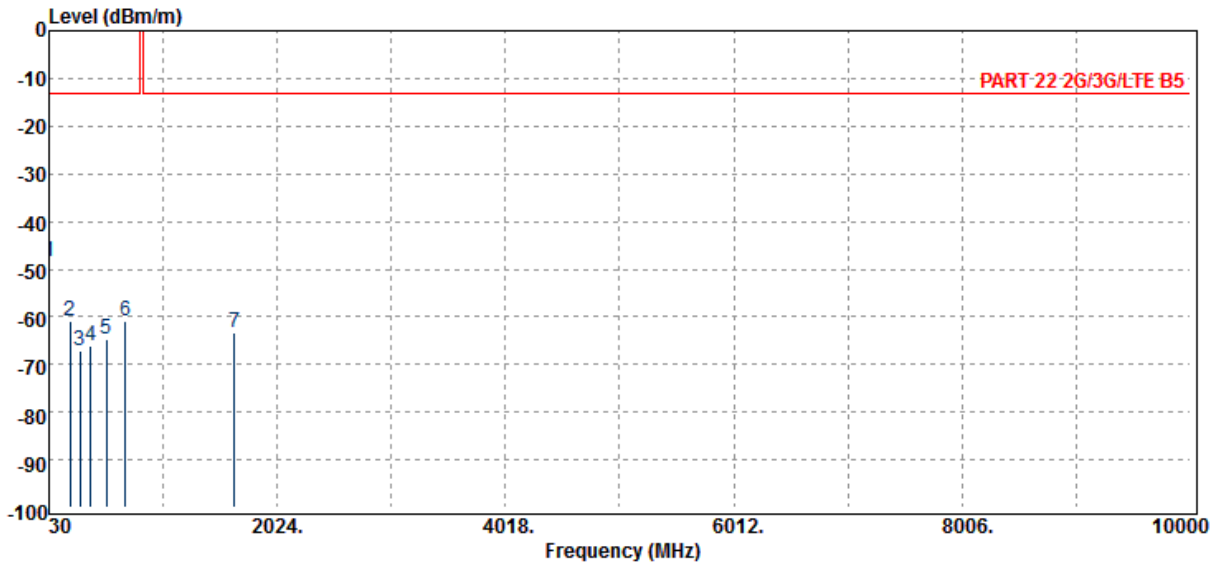
Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
31.94	S	-43.99	-29.31	-14.08	-0.59	-13.00	-30.99
168.71	S	-56.88	-54.86	-0.70	-1.33	-13.00	-43.88
296.75	S	-65.17	-66.92	3.55	-1.81	-13.00	-52.17
347.19	S	-62.47	-64.29	3.84	-2.02	-13.00	-49.47
536.34	S	-59.92	-61.82	4.00	-2.11	-13.00	-46.92
694.45	S	-58.63	-59.71	3.69	-2.61	-13.00	-45.63
1652.80	H	-61.38	-64.01	6.99	-4.36	-13.00	-48.38

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Operation Band	:HSUPA B5	Temp./Humi.	:24 deg_C / 61 RH
Fundamental Frequency	:826.4 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



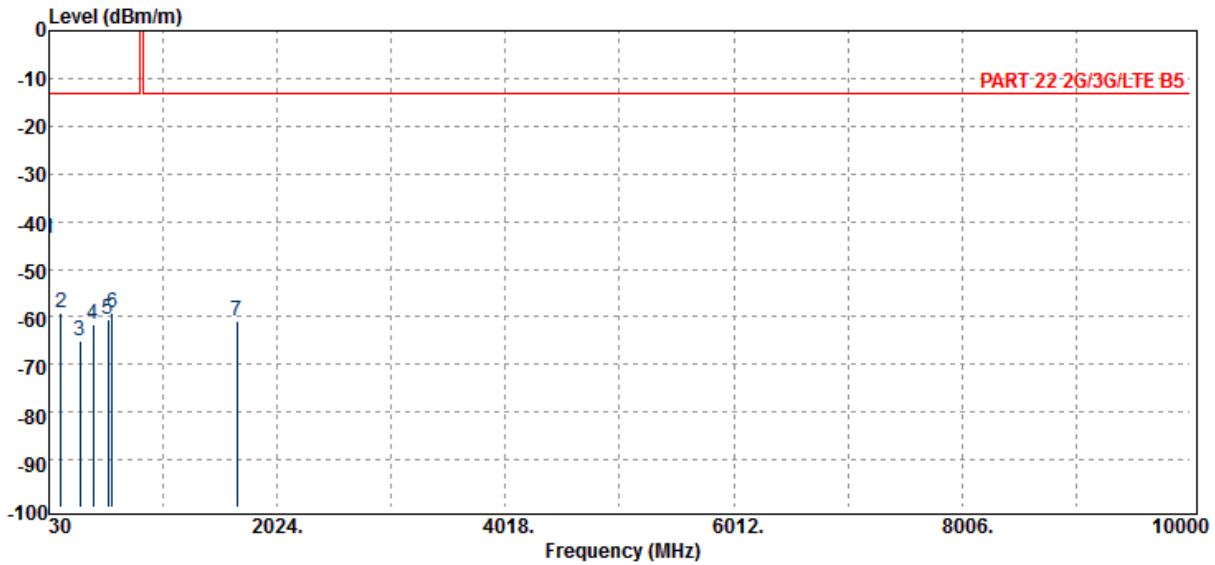
Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
31.94	S	-48.61	-33.93	-14.08	-0.59	-13.00	-35.61
216.24	S	-60.80	-62.71	3.47	-1.56	-13.00	-47.80
299.66	S	-66.98	-68.76	3.61	-1.82	-13.00	-53.98
395.69	S	-65.93	-67.57	3.73	-2.08	-13.00	-52.93
531.49	S	-64.65	-66.34	4.01	-2.31	-13.00	-51.65
699.30	S	-60.92	-62.36	3.68	-2.24	-13.00	-47.92
1652.80	H	-63.37	-66.00	6.99	-4.36	-13.00	-50.37

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Operation Band	:HSUPA B5	Temp./Humi.	:24 deg_C / 61 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID	Measurement Antenna	:VERTICAL
EUT Pol.	:E2 Plane	Pol.	



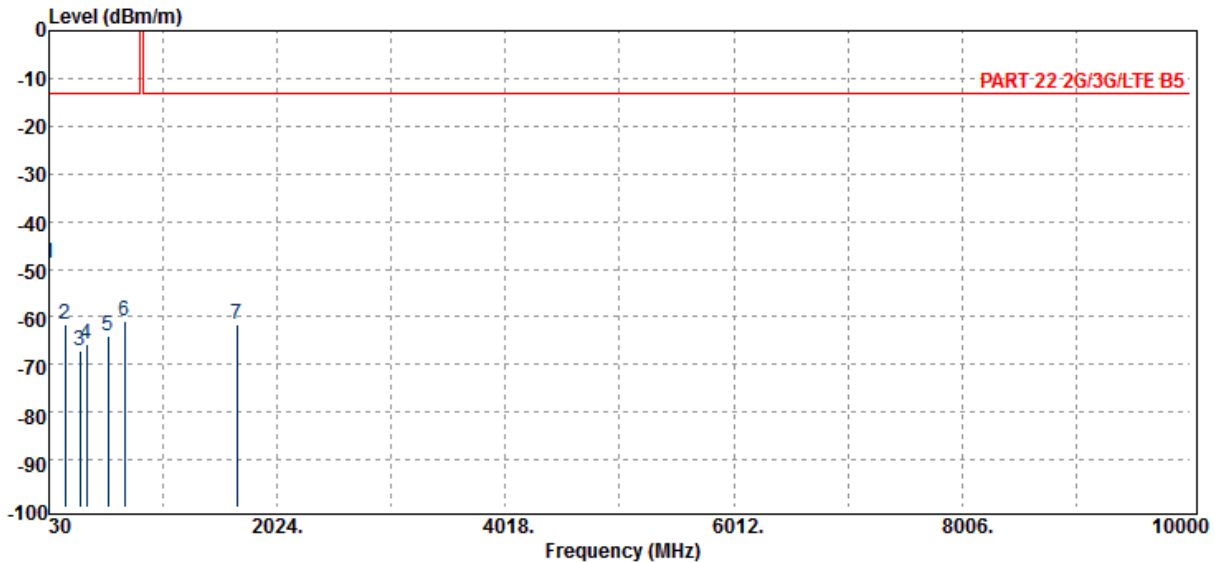
Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
31.94	S	-43.49	-28.82	-14.08	-0.59	-13.00	-30.49
136.70	S	-59.28	-55.84	-2.19	-1.24	-13.00	-46.28
298.69	S	-65.16	-66.93	3.59	-1.82	-13.00	-52.16
415.09	S	-61.61	-63.15	3.66	-2.12	-13.00	-48.61
544.10	S	-60.57	-62.77	3.99	-1.79	-13.00	-47.57
582.90	S	-59.28	-60.66	3.68	-2.30	-13.00	-46.28
1673.20	H	-60.99	-63.66	7.06	-4.39	-13.00	-47.99

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Operation Band	:HSUPA B5	Temp./Humi.	:24 deg_C / 61 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



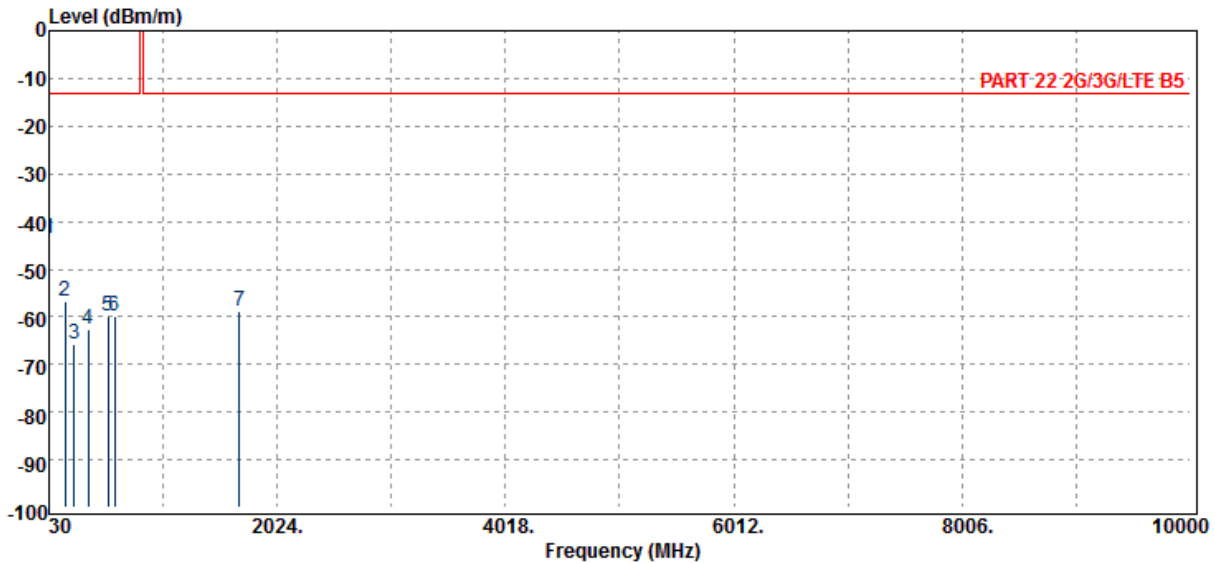
Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	S	-48.93	-33.77	-14.58	-0.58	-13.00	-35.93
172.59	S	-61.54	-60.00	-0.20	-1.34	-13.00	-48.54
299.66	S	-67.21	-69.00	3.61	-1.82	-13.00	-54.21
359.80	S	-65.58	-67.35	3.83	-2.06	-13.00	-52.58
546.04	S	-64.14	-66.32	3.99	-1.81	-13.00	-51.14
692.51	S	-60.77	-61.71	3.70	-2.76	-13.00	-47.77
1673.20	H	-61.56	-64.22	7.06	-4.39	-13.00	-48.56

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Operation Band	:HSUPA B5	Temp./Humi.	:24 deg_C / 61 RH
Fundamental Frequency	:846.6 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



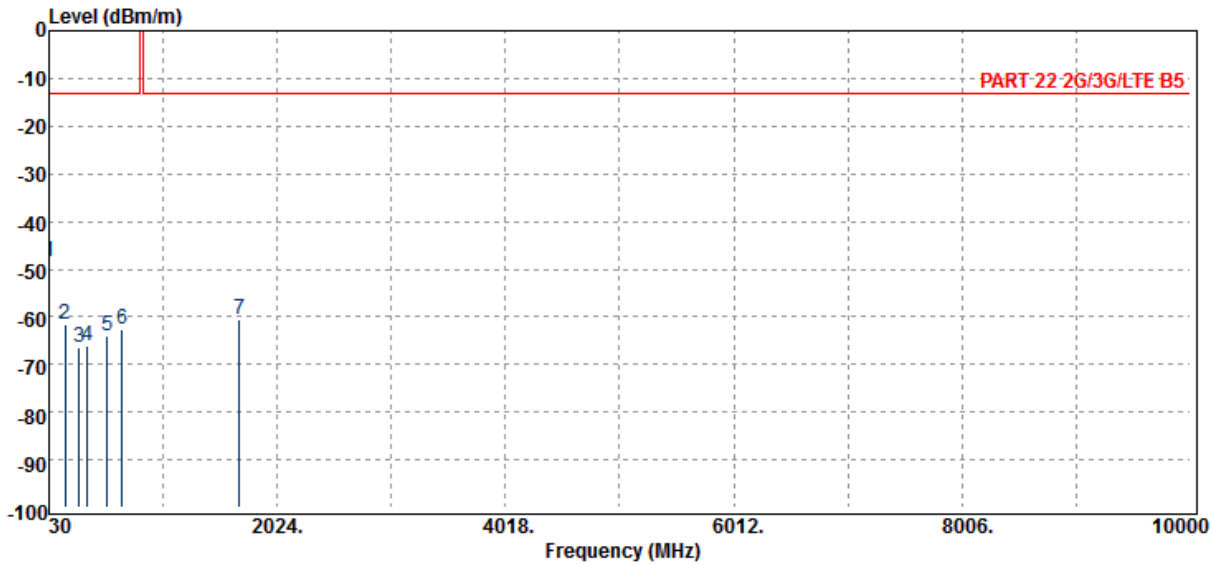
Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
31.94	S	-43.73	-29.06	-14.08	-0.59	-13.00	-30.73
172.59	S	-56.61	-55.07	-0.20	-1.34	-13.00	-43.61
251.16	S	-65.66	-67.51	3.55	-1.70	-13.00	-52.66
374.35	S	-62.67	-64.42	3.78	-2.04	-13.00	-49.67
547.01	S	-59.94	-62.06	3.98	-1.86	-13.00	-46.94
605.21	S	-59.85	-61.27	3.57	-2.15	-13.00	-46.85
1693.20	H	-58.84	-61.54	7.12	-4.43	-13.00	-45.84

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Operation Band	:HSUPA B5	Temp./Humi.	:24 deg_C / 61 RH
Fundamental Frequency	:846.6 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	S	-48.60	-33.44	-14.58	-0.58	-13.00	-35.60
172.59	S	-61.52	-59.98	-0.20	-1.34	-13.00	-48.52
294.81	S	-66.57	-68.28	3.52	-1.80	-13.00	-53.57
364.65	S	-66.03	-67.77	3.81	-2.07	-13.00	-53.03
539.25	S	-64.04	-66.05	4.00	-1.99	-13.00	-51.04
667.29	S	-62.48	-64.15	3.78	-2.11	-13.00	-49.48
1693.20	H	-60.39	-63.08	7.12	-4.43	-13.00	-47.39

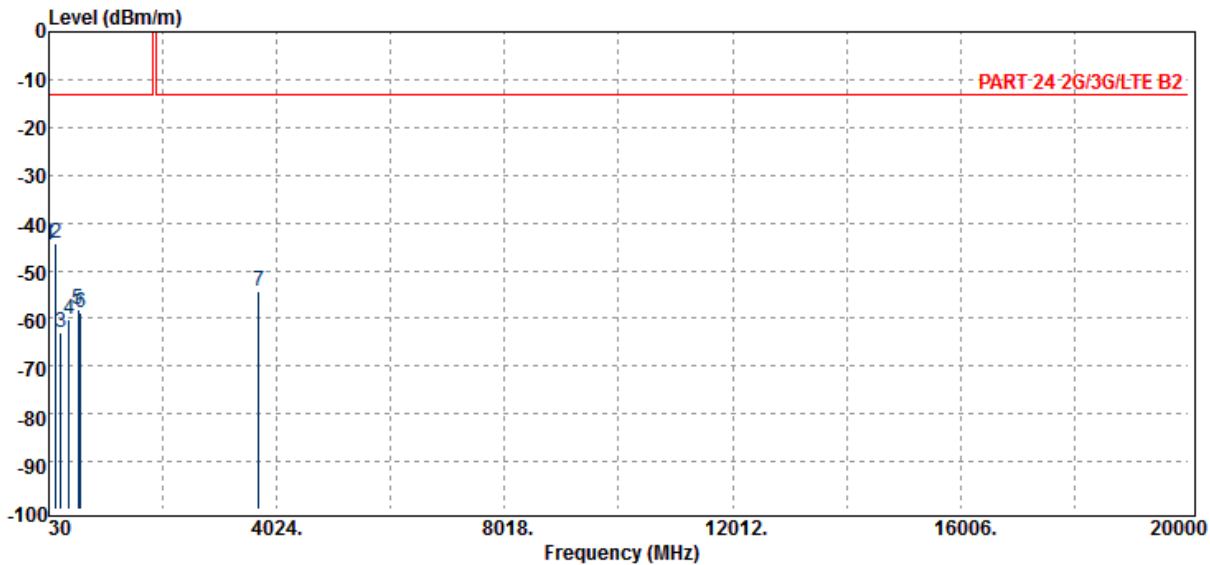
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Radiated Spurious Emission Measurement Result: LTE-Band 2 (The Worst Case)

Operation Band :LTE B2 Temp./Humi. :24.1 deg_C / 65 RH
 Fundamental Frequency :1852.5 MHz Engineer :Tin
 Operation Mode :Tx CH LOW
 EUT Pol. :E2 Plane Measurement Pol. Antenna :VERTICAL



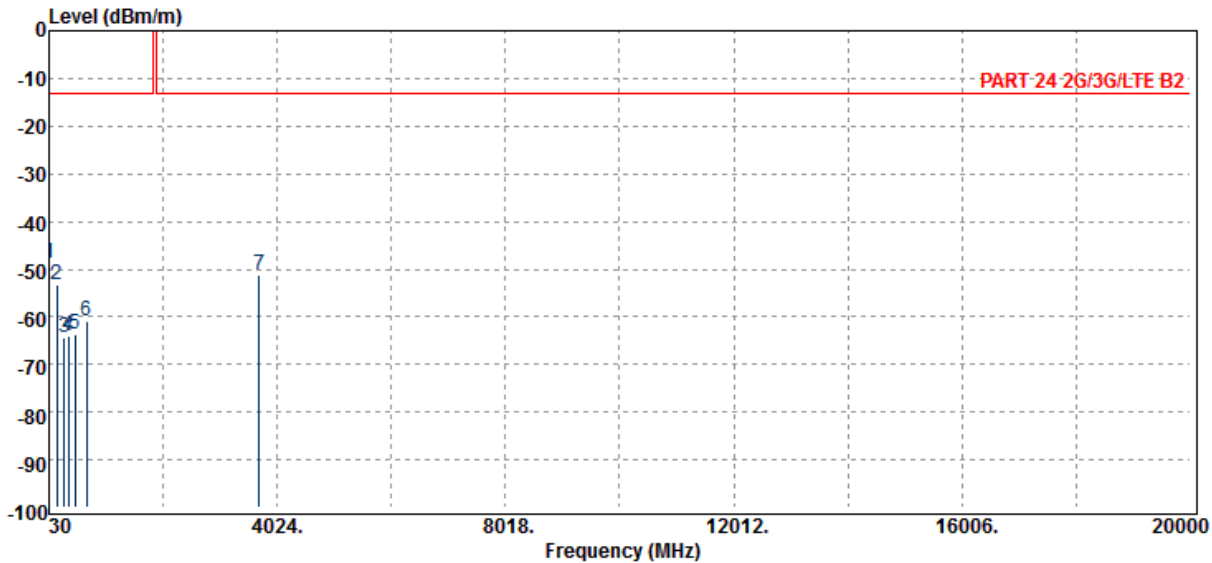
Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
31.94	S	-44.70	-30.03	-14.08	-0.59	-13.00	-31.70
146.40	S	-44.17	-40.91	-1.98	-1.29	-13.00	-31.17
241.46	S	-62.96	-64.77	3.49	-1.68	-13.00	-49.96
382.11	S	-60.37	-62.12	3.76	-2.02	-13.00	-47.37
541.19	S	-58.06	-60.14	3.99	-1.91	-13.00	-45.06
579.99	S	-58.75	-60.07	3.71	-2.39	-13.00	-45.75
3705.00	H	-54.36	-60.03	12.57	-6.90	-13.00	-41.36

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Operation Band :LTE B2 Temp./Humi. :24.1 deg_C / 65 RH
 Fundamental Frequency :1852.5 MHz Engineer :Tin
 Operation Mode :Tx CH LOW
 EUT Pol. :E2 Plane Measurement Antenna Pol.:HORIZONTAL



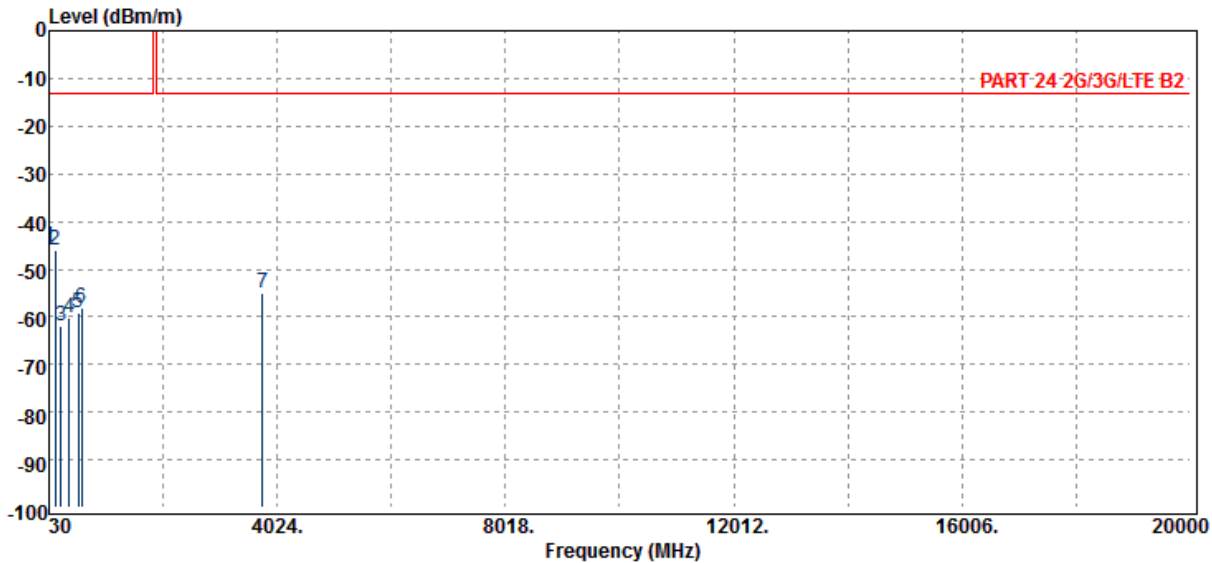
Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	S	-48.62	-33.46	-14.58	-0.58	-13.00	-35.62
170.65	S	-53.36	-51.51	-0.51	-1.33	-13.00	-40.36
299.66	S	-64.20	-65.98	3.61	-1.82	-13.00	-51.20
362.71	S	-63.92	-65.67	3.82	-2.07	-13.00	-50.92
487.84	S	-63.54	-65.58	3.93	-1.89	-13.00	-50.54
687.66	S	-61.04	-61.62	3.71	-3.13	-13.00	-48.04
3705.00	H	-51.09	-56.75	12.57	-6.90	-13.00	-38.09

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Operation Band	:LTE B2	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:1880 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID	Measurement	Antenna:VERTICAL
EUT Pol.	:E2 Plane	Pol.	



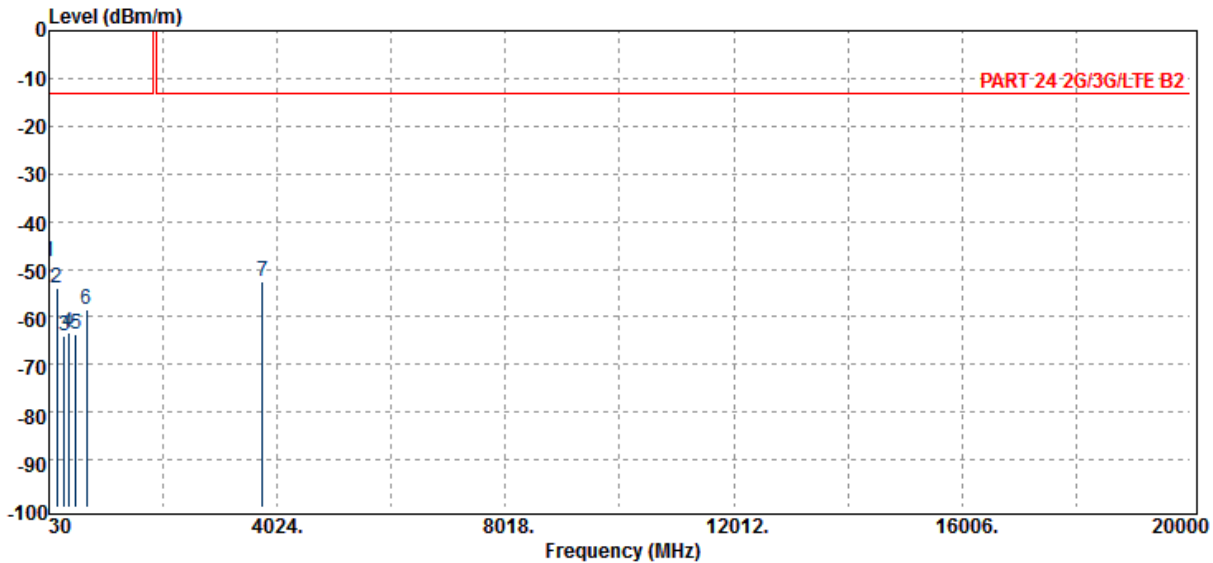
Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
31.94	S	-45.19	-30.51	-14.08	-0.59	-13.00	-32.19
134.76	S	-45.97	-42.62	-2.12	-1.23	-13.00	-32.97
241.46	S	-62.03	-63.84	3.49	-1.68	-13.00	-49.03
377.26	S	-60.22	-61.96	3.78	-2.03	-13.00	-47.22
547.01	S	-59.03	-61.16	3.98	-1.86	-13.00	-46.03
607.15	S	-58.17	-59.54	3.58	-2.21	-13.00	-45.17
3760.00	H	-54.86	-60.59	12.61	-6.89	-13.00	-41.86

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Operation Band	:LTE B2	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:1880 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID	Measurement	Antenna :HORIZONTAL
EUT Pol.	:E2 Plane	Pol.	



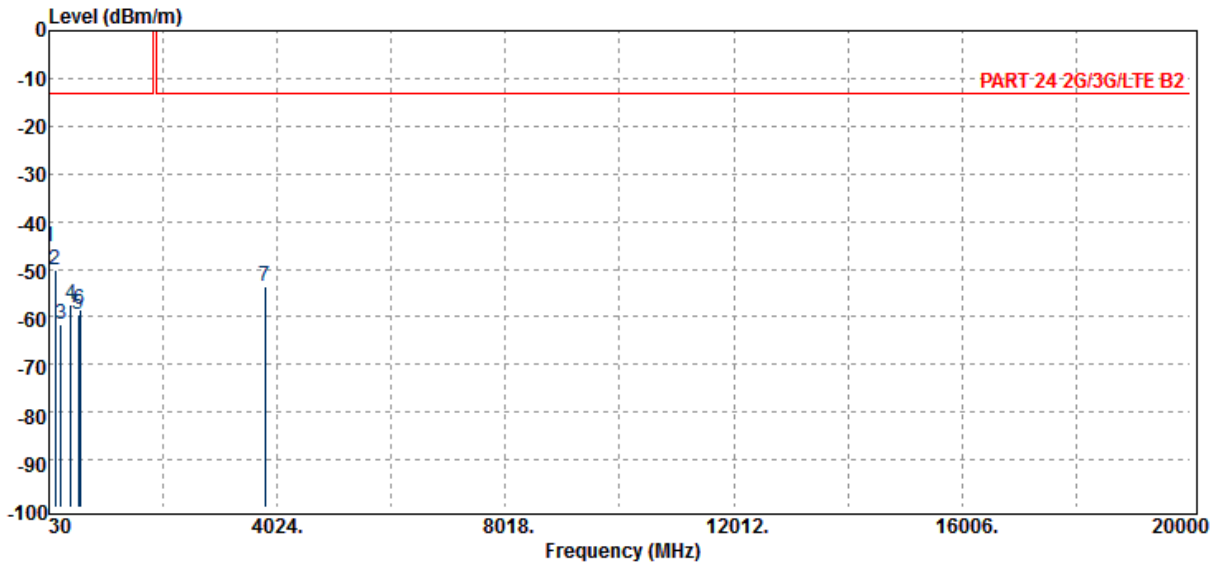
Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	S	-48.60	-33.44	-14.58	-0.58	-13.00	-35.60
168.71	S	-53.96	-51.94	-0.70	-1.33	-13.00	-40.96
299.66	S	-64.02	-65.80	3.61	-1.82	-13.00	-51.02
367.56	S	-63.25	-64.99	3.80	-2.06	-13.00	-50.25
495.60	S	-63.75	-65.67	4.01	-2.09	-13.00	-50.75
684.75	S	-58.65	-59.04	3.72	-3.32	-13.00	-45.65
3760.00	H	-52.70	-58.43	12.61	-6.89	-13.00	-39.70

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Operation Band	:LTE B2	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:1907.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna	:VERTICAL
		Pol.	



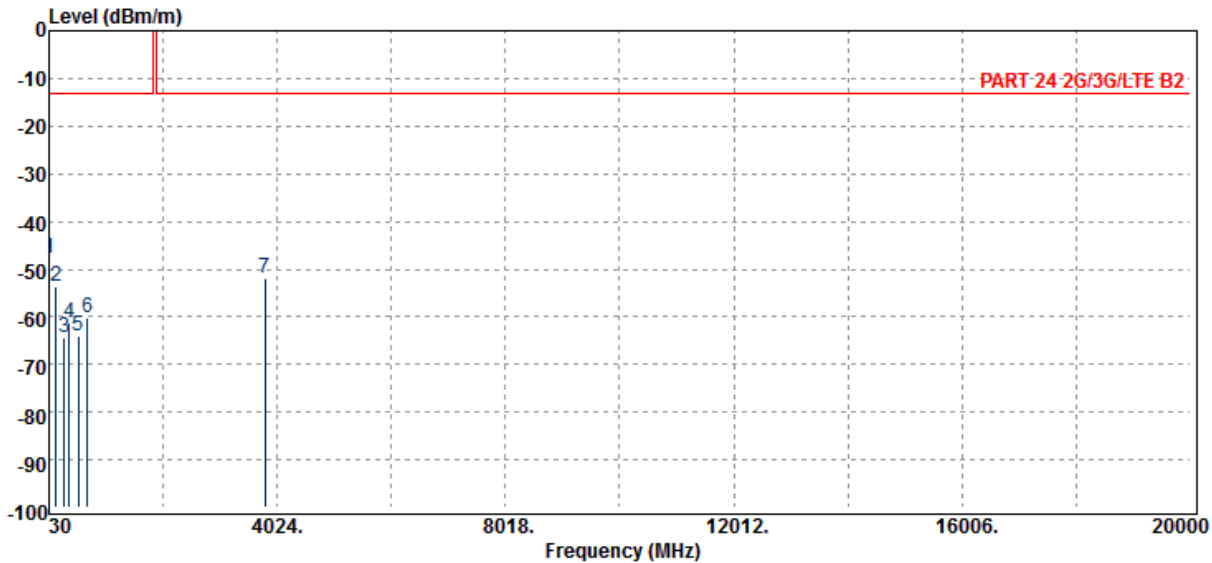
Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
31.94	S	-45.44	-30.77	-14.08	-0.59	-13.00	-32.44
133.79	S	-50.29	-46.98	-2.09	-1.23	-13.00	-37.29
241.46	S	-61.57	-63.38	3.49	-1.68	-13.00	-48.57
418.00	S	-57.58	-59.11	3.65	-2.11	-13.00	-44.58
546.04	S	-59.56	-61.74	3.99	-1.81	-13.00	-46.56
578.05	S	-58.36	-59.64	3.73	-2.45	-13.00	-45.36
3815.00	H	-53.78	-59.43	12.66	-7.00	-13.00	-40.78

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Operation Band	:LTE B2	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:1907.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH	Measurement Antenna	:HORIZONTAL
EUT Pol.	:E2 Plane	Pol.	



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	S	-47.77	-32.61	-14.58	-0.58	-13.00	-34.77
148.34	S	-53.61	-50.44	-1.89	-1.29	-13.00	-40.61
299.66	S	-64.27	-66.06	3.61	-1.82	-13.00	-51.27
379.20	S	-61.28	-63.03	3.77	-2.03	-13.00	-48.28
541.19	S	-63.96	-66.04	3.99	-1.91	-13.00	-50.96
699.30	S	-60.22	-61.66	3.68	-2.24	-13.00	-47.22
3815.00	H	-51.87	-57.53	12.66	-7.00	-13.00	-38.87

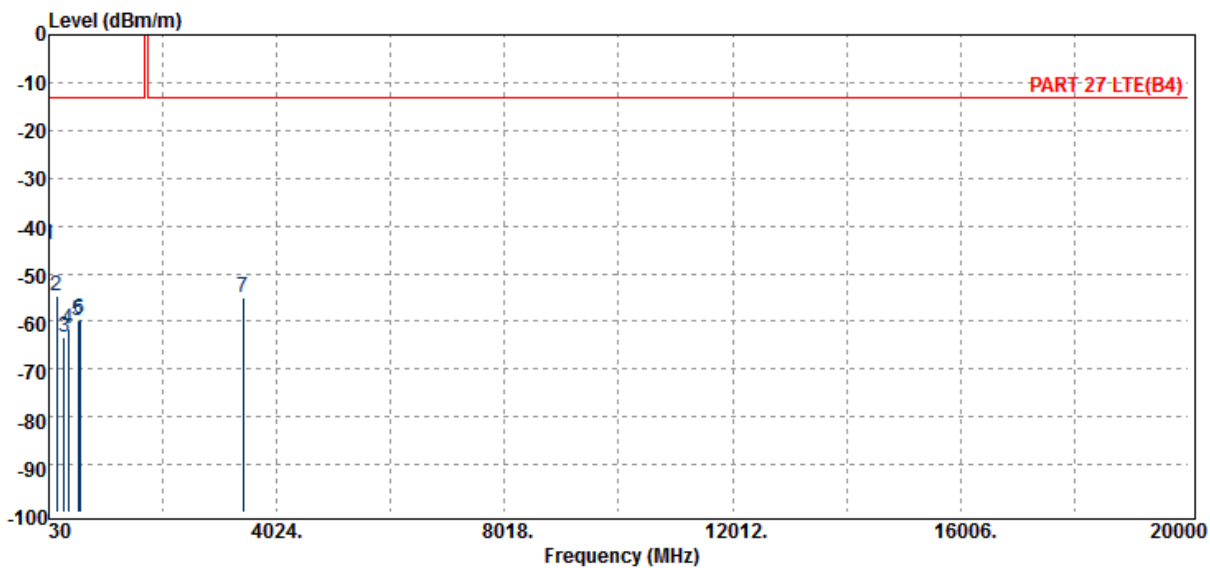
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Radiated Spurious Emission Measurement Result: LTE-Band 4 (The Worst Case)

Operation Band	:LTE B4	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:1717.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:E2 Plane	Measurement Pol.	Antenna :VERTICAL



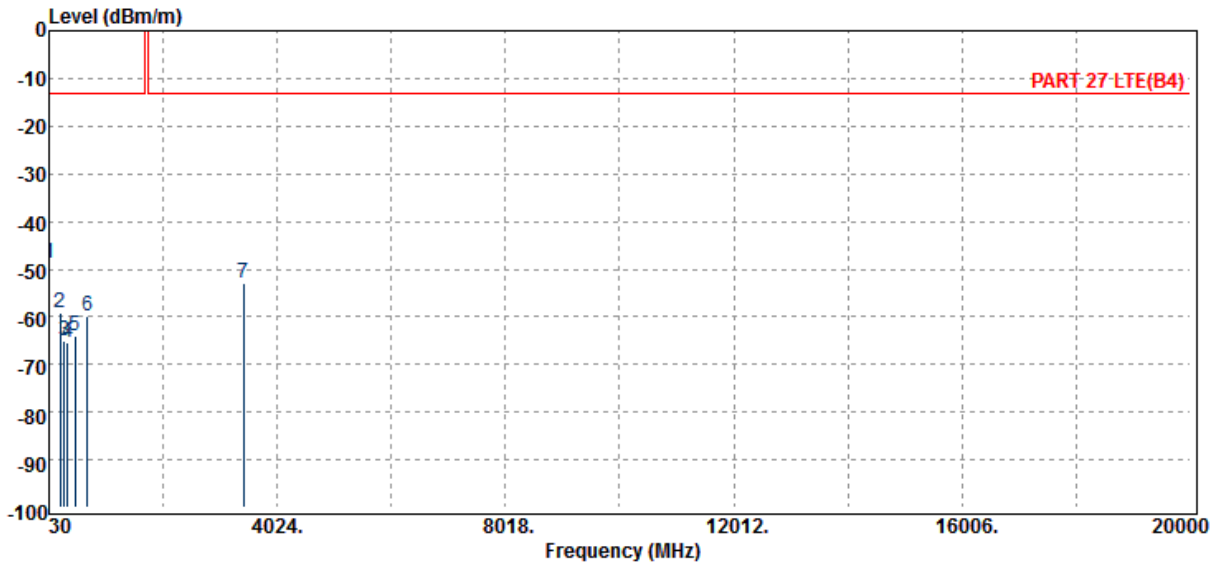
Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
32.91	S	-43.94	-29.50	-13.84	-0.60	-13.00	-30.94
172.59	S	-54.66	-53.12	-0.20	-1.34	-13.00	-41.66
299.66	S	-63.49	-65.28	3.61	-1.82	-13.00	-50.49
366.59	S	-61.65	-63.39	3.81	-2.07	-13.00	-48.65
544.10	S	-59.75	-61.95	3.99	-1.79	-13.00	-46.75
573.20	S	-59.55	-60.73	3.77	-2.59	-13.00	-46.55
3435.00	H	-55.17	-60.88	12.25	-6.55	-13.00	-42.17

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Operation Band	:LTE B4	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:1717.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



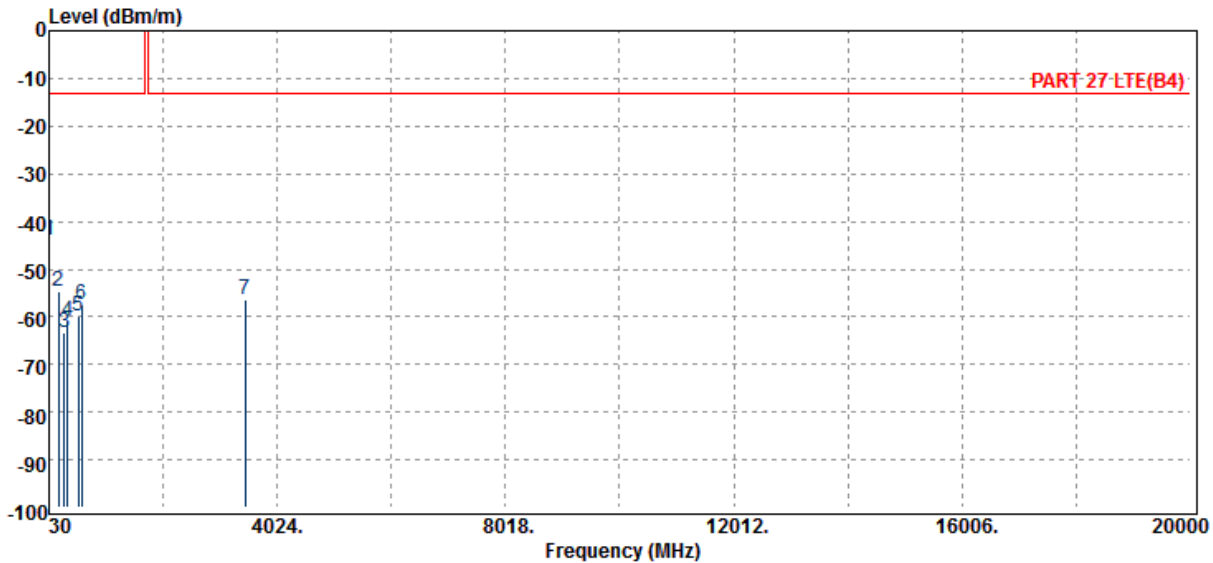
Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	S	-48.94	-33.78	-14.58	-0.58	-13.00	-35.94
219.15	S	-59.12	-60.90	3.35	-1.57	-13.00	-46.12
299.66	S	-64.89	-66.67	3.61	-1.82	-13.00	-51.89
356.89	S	-65.34	-67.13	3.83	-2.05	-13.00	-52.34
488.81	S	-63.93	-65.95	3.94	-1.91	-13.00	-50.93
697.36	S	-59.76	-61.06	3.68	-2.38	-13.00	-46.76
3435.00	H	-52.90	-58.60	12.25	-6.55	-13.00	-39.90

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Operation Band	:LTE B4	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:1732.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID	Measurement Antenna	:VERTICAL
EUT Pol.	:E2 Plane	Pol.	



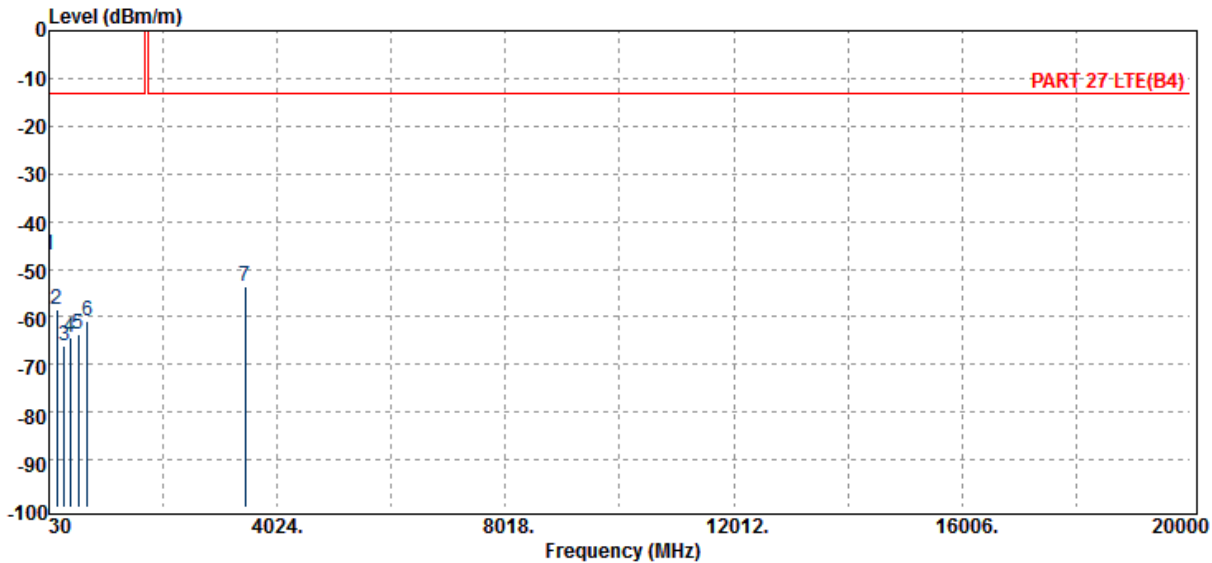
Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
31.94	S	-44.06	-29.39	-14.08	-0.59	-13.00	-31.06
191.99	S	-54.50	-55.73	2.66	-1.44	-13.00	-41.50
299.66	S	-63.19	-64.98	3.61	-1.82	-13.00	-50.19
357.86	S	-60.92	-62.70	3.83	-2.05	-13.00	-47.92
539.25	S	-59.99	-62.00	4.00	-1.99	-13.00	-46.99
604.24	S	-57.45	-58.87	3.56	-2.14	-13.00	-44.45
3465.00	H	-56.36	-62.12	12.32	-6.56	-13.00	-43.36

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Operation Band	:LTE B4	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:1732.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



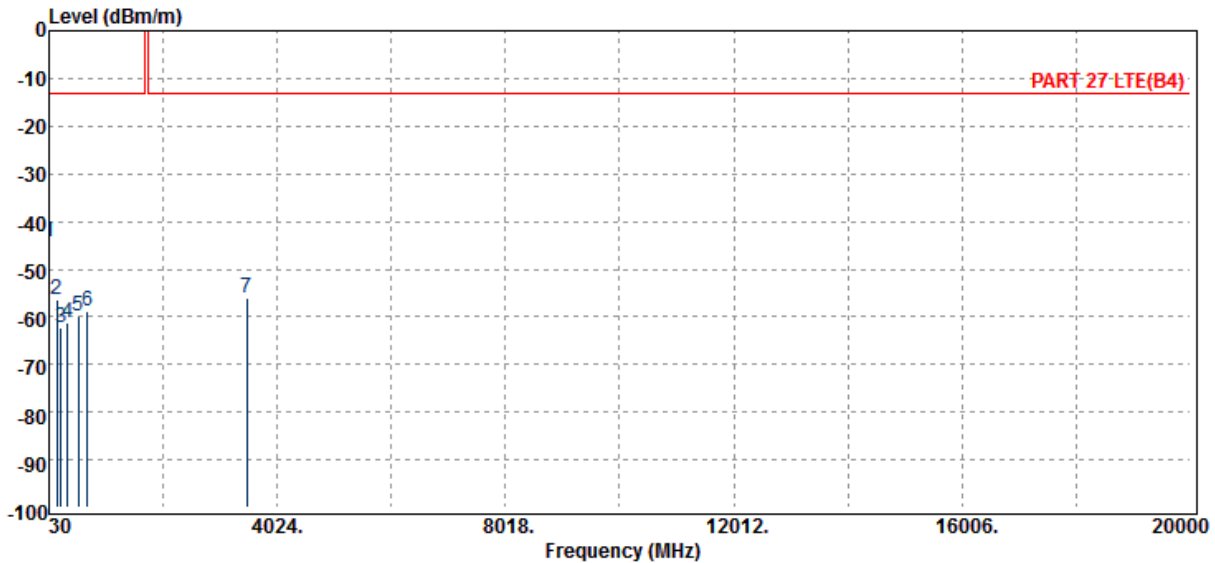
Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	S	-46.98	-31.83	-14.58	-0.58	-13.00	-33.98
172.59	S	-58.53	-56.99	-0.20	-1.34	-13.00	-45.53
299.66	S	-66.03	-67.82	3.61	-1.82	-13.00	-53.03
403.45	S	-64.43	-65.99	3.70	-2.14	-13.00	-51.43
547.01	S	-63.57	-65.69	3.98	-1.86	-13.00	-50.57
697.36	S	-60.81	-62.11	3.68	-2.38	-13.00	-47.81
3465.00	H	-53.61	-59.38	12.32	-6.56	-13.00	-40.61

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Operation Band	:LTE B4	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:1747.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



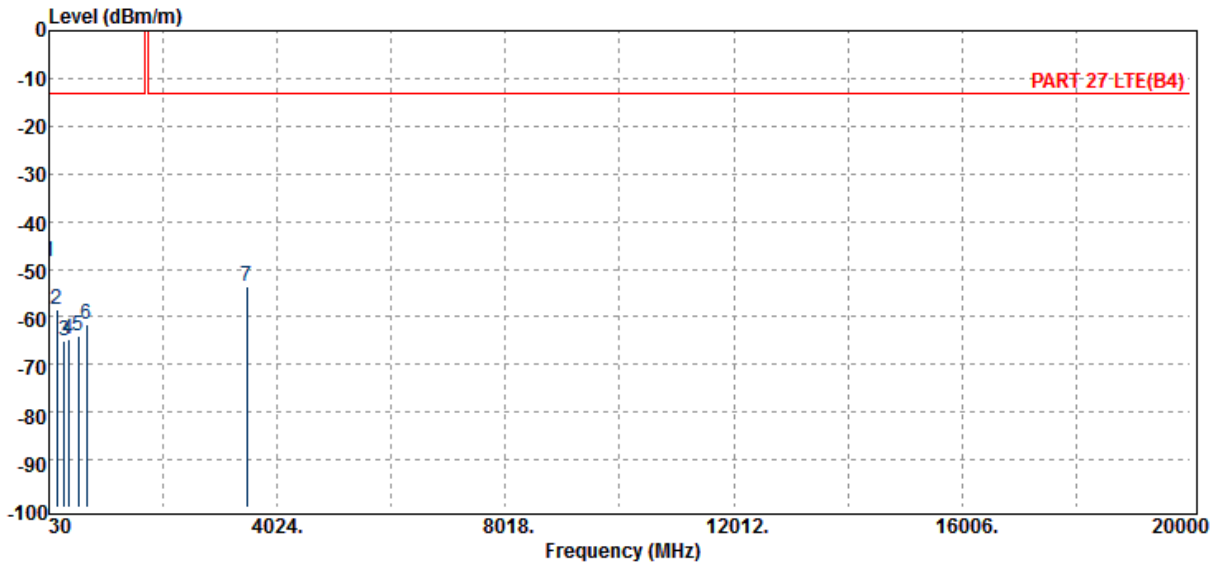
Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
31.94	S	-44.15	-29.48	-14.08	-0.59	-13.00	-31.15
168.71	S	-56.42	-54.40	-0.70	-1.33	-13.00	-43.42
241.46	S	-62.35	-64.17	3.49	-1.68	-13.00	-49.35
361.74	S	-61.15	-62.91	3.82	-2.06	-13.00	-48.15
541.19	S	-59.96	-62.04	3.99	-1.91	-13.00	-46.96
697.36	S	-58.69	-59.99	3.68	-2.38	-13.00	-45.69
3495.00	H	-55.99	-61.77	12.39	-6.61	-13.00	-42.99

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Operation Band	:LTE B4	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:1747.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	S	-48.38	-33.22	-14.58	-0.58	-13.00	-35.38
173.56	S	-58.38	-56.99	-0.04	-1.35	-13.00	-45.38
299.66	S	-65.17	-66.95	3.61	-1.82	-13.00	-52.17
367.56	S	-64.80	-66.54	3.80	-2.06	-13.00	-51.80
542.16	S	-64.01	-66.13	3.99	-1.87	-13.00	-51.01
692.51	S	-61.45	-62.39	3.70	-2.76	-13.00	-48.45
3495.00	H	-53.57	-59.35	12.39	-6.61	-13.00	-40.57

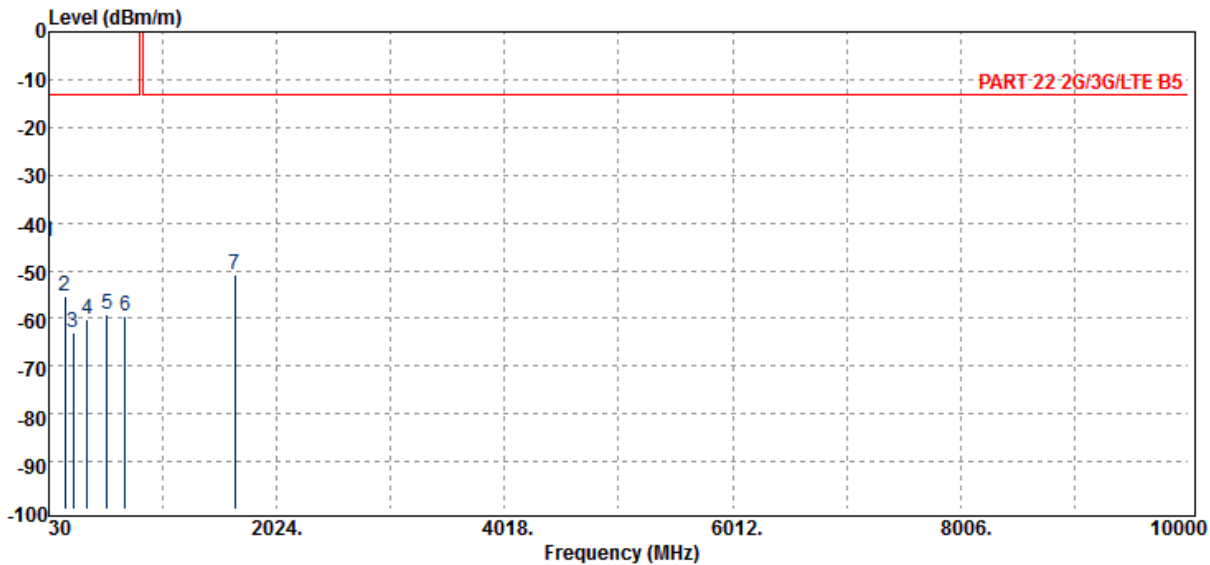
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Radiated Spurious Emission Measurement Result: LTE-Band 5 (The Worst Case)

Operation Band :LTE B5 Temp./Humi. :24.1 deg_C / 65 RH
 Fundamental Frequency :829 MHz Engineer :Tin
 Operation Mode :Tx CH LOW
 EUT Pol. :E2 Plane Measurement Pol. Antenna :VERTICAL



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
32.91	S	-44.10	-29.66	-13.84	-0.60	-13.00	-31.10
167.74	S	-55.45	-53.37	-0.76	-1.32	-13.00	-42.45
241.46	S	-63.12	-64.93	3.49	-1.68	-13.00	-50.12
366.59	S	-60.08	-61.82	3.81	-2.07	-13.00	-47.08
539.25	S	-59.23	-61.24	4.00	-1.99	-13.00	-46.23
694.45	S	-59.48	-60.56	3.69	-2.61	-13.00	-46.48
1658.00	H	-51.04	-55.83	9.16	-4.37	-13.00	-38.04

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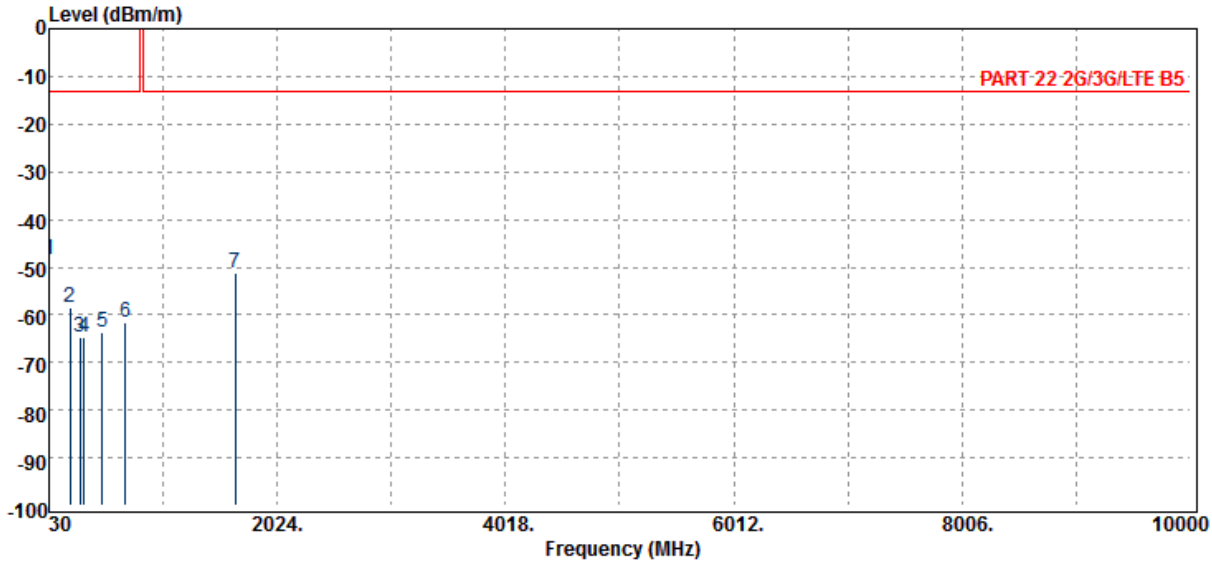
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Operation Band	:LTE B5	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:829 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



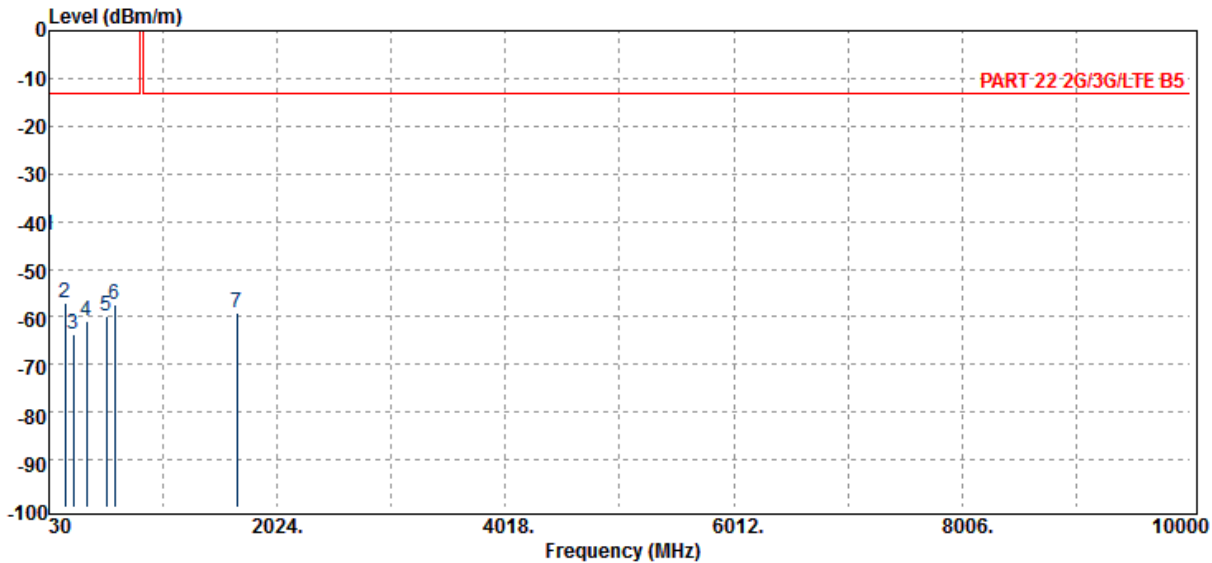
Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	S	-48.32	-33.16	-14.58	-0.58	-13.00	-35.32
217.21	S	-58.45	-60.32	3.43	-1.56	-13.00	-45.45
299.66	S	-64.62	-66.40	3.61	-1.82	-13.00	-51.62
335.55	S	-64.64	-66.48	3.79	-1.95	-13.00	-51.64
492.69	S	-63.78	-65.75	3.98	-2.01	-13.00	-50.78
699.30	S	-61.53	-62.97	3.68	-2.24	-13.00	-48.53
1658.00	H	-51.37	-56.16	9.16	-4.37	-13.00	-38.37

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Operation Band	:LTE B5	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:836.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID	Measurement Pol.	Antenna :VERTICAL
EUT Pol.	:E2 Plane		



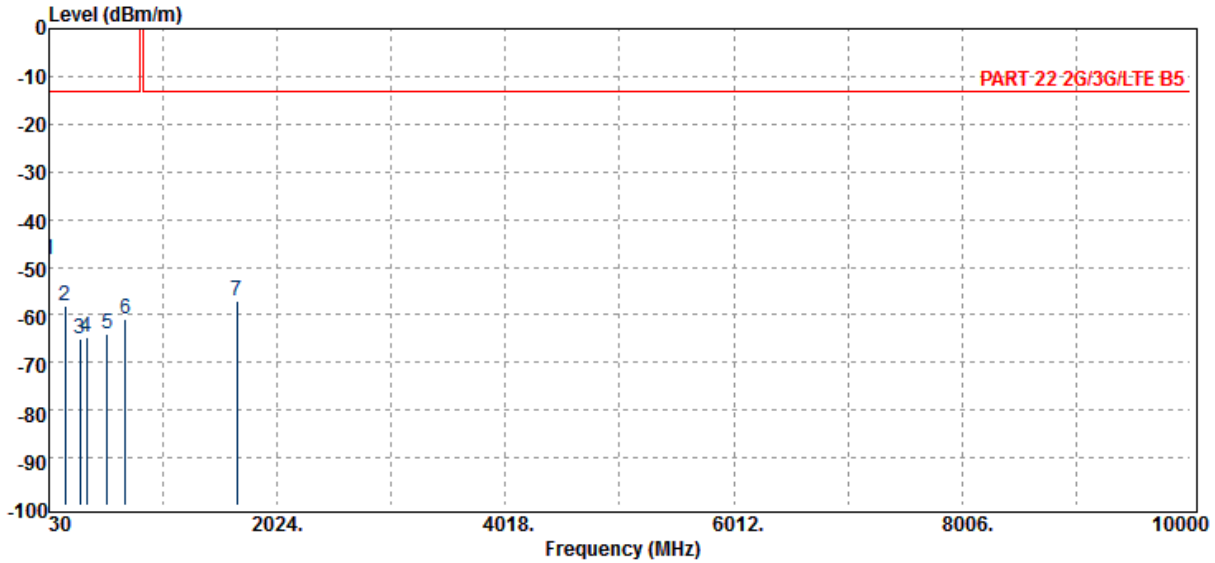
Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
31.94	S	-42.80	-28.12	-14.08	-0.59	-13.00	-29.80
173.56	S	-57.21	-55.82	-0.04	-1.35	-13.00	-44.21
241.46	S	-63.82	-65.63	3.49	-1.68	-13.00	-50.82
354.95	S	-60.77	-62.57	3.84	-2.04	-13.00	-47.77
534.40	S	-59.80	-61.61	4.00	-2.19	-13.00	-46.80
605.21	S	-57.57	-59.00	3.57	-2.15	-13.00	-44.57
1673.00	H	-59.24	-64.06	9.21	-4.39	-13.00	-46.24

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Operation Band	:LTE B5	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:836.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	S	-48.57	-33.41	-14.58	-0.58	-13.00	-35.57
170.65	S	-57.98	-56.13	-0.51	-1.33	-13.00	-44.98
299.66	S	-64.96	-66.74	3.61	-1.82	-13.00	-51.96
359.80	S	-64.76	-66.53	3.83	-2.06	-13.00	-51.76
542.16	S	-63.91	-66.03	3.99	-1.87	-13.00	-50.91
697.36	S	-60.74	-62.04	3.68	-2.38	-13.00	-47.74
1673.00	H	-57.12	-61.94	9.21	-4.39	-13.00	-44.12

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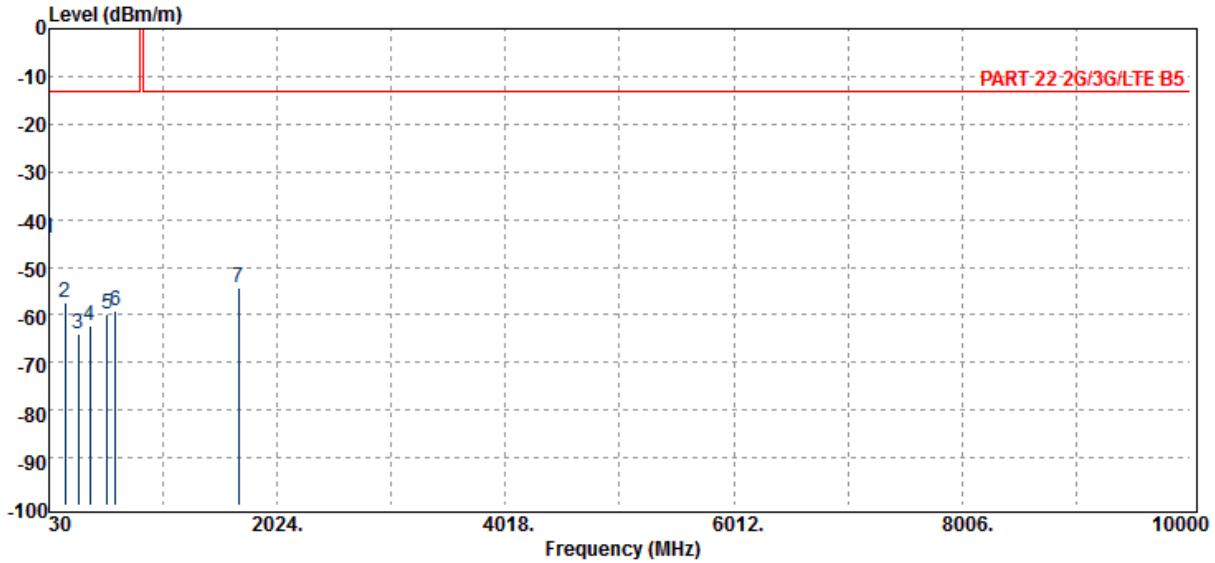
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Operation Band	:LTE B5	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:844 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



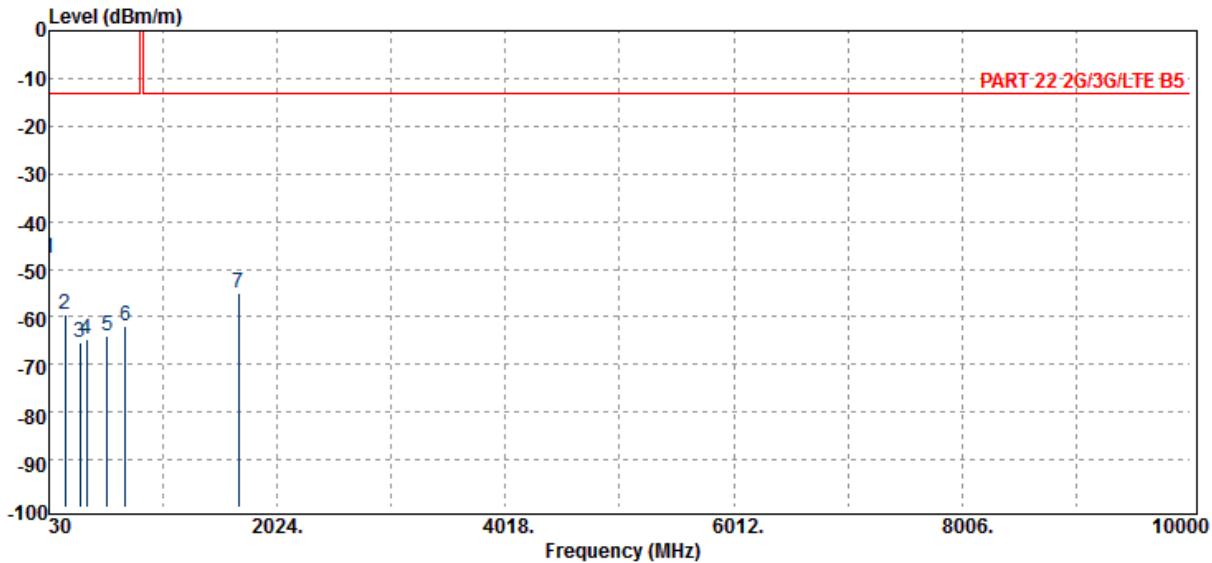
Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
31.94	S	-43.83	-29.16	-14.08	-0.59	-13.00	-30.83
170.65	S	-57.60	-55.75	-0.51	-1.33	-13.00	-44.60
287.05	S	-64.05	-65.70	3.42	-1.77	-13.00	-51.05
388.90	S	-62.34	-64.05	3.74	-2.04	-13.00	-49.34
541.19	S	-59.87	-61.95	3.99	-1.91	-13.00	-46.87
612.00	S	-59.27	-60.51	3.61	-2.38	-13.00	-46.27
1688.00	H	-54.39	-57.07	7.11	-4.42	-13.00	-41.39

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Operation Band	:LTE B5	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:844 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	S	-47.67	-32.51	-14.58	-0.58	-13.00	-34.67
172.59	S	-59.39	-57.85	-0.20	-1.34	-13.00	-46.39
298.69	S	-65.26	-67.03	3.59	-1.82	-13.00	-52.26
359.80	S	-64.82	-66.59	3.83	-2.06	-13.00	-51.82
541.19	S	-64.14	-66.23	3.99	-1.91	-13.00	-51.14
700.27	S	-61.86	-63.38	3.67	-2.16	-13.00	-48.86
1688.00	H	-55.16	-57.85	7.11	-4.42	-13.00	-42.16

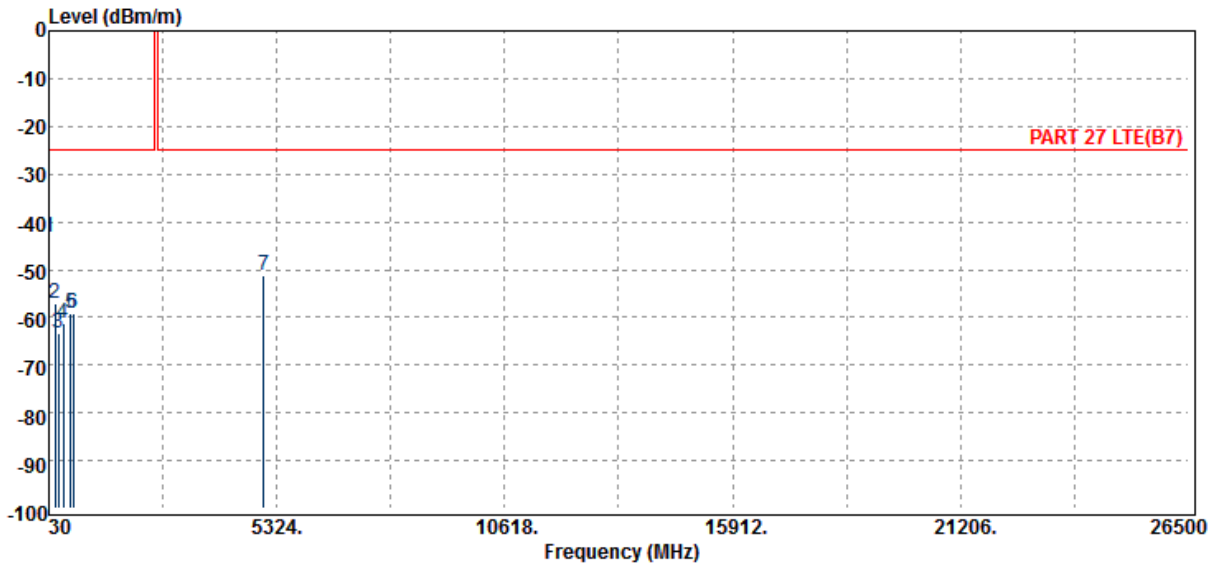
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Radiated Spurious Emission Measurement Result: LTE-Band 7 (The Worst Case)

Operation Band :LTE B7 Temp./Humi. :24.1 deg_C / 65 RH
 Fundamental Frequency :2510 MHz Engineer :Tin
 Operation Mode :Tx CH LOW
 EUT Pol. :E2 Plane Measurement Antenna Pol.:VERTICAL



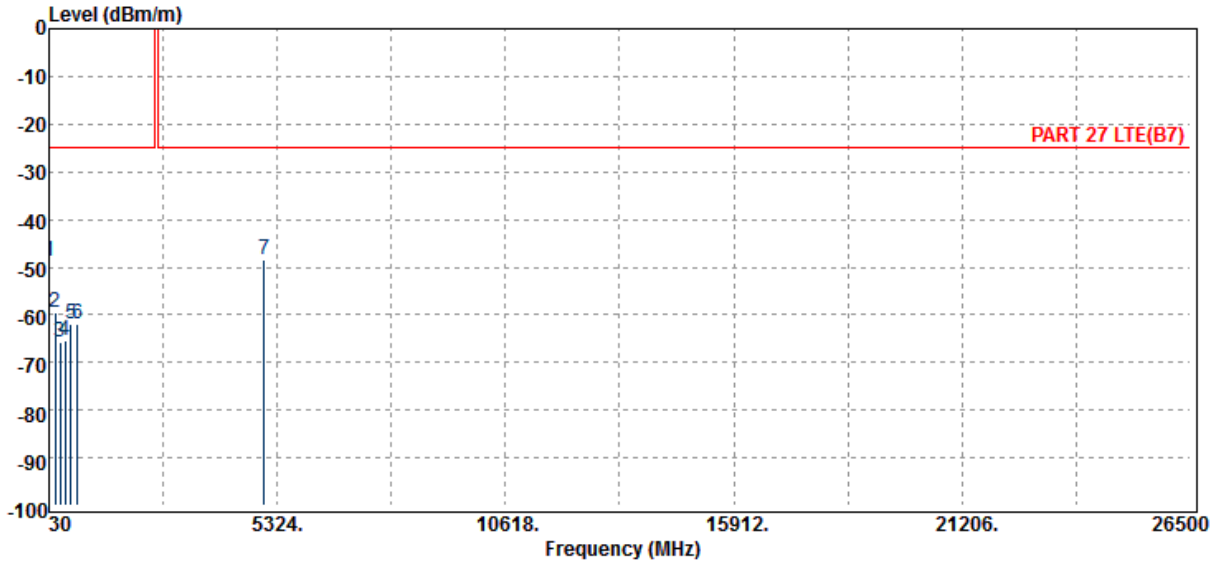
Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
31.94	S	-43.34	-28.67	-14.08	-0.59	-25.00	-18.34
175.50	S	-57.04	-55.95	0.27	-1.36	-25.00	-32.04
243.40	S	-63.22	-65.03	3.50	-1.68	-25.00	-38.22
366.59	S	-61.12	-62.86	3.81	-2.07	-25.00	-36.12
544.10	S	-59.11	-61.31	3.99	-1.79	-25.00	-34.11
600.36	S	-59.20	-60.58	3.54	-2.16	-25.00	-34.20
5020.00	H	-51.27	-55.78	12.53	-8.01	-25.00	-26.27

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Operation Band :LTE B7
Fundamental Frequency :2510 MHz
Operation Mode :Tx CH LOW
EUT Pol. :E2 Plane
Temp./Humi. :24.1 deg_C / 65 RH
Engineer :Tin
Measurement Antenna Pol.:HORIZONTAL



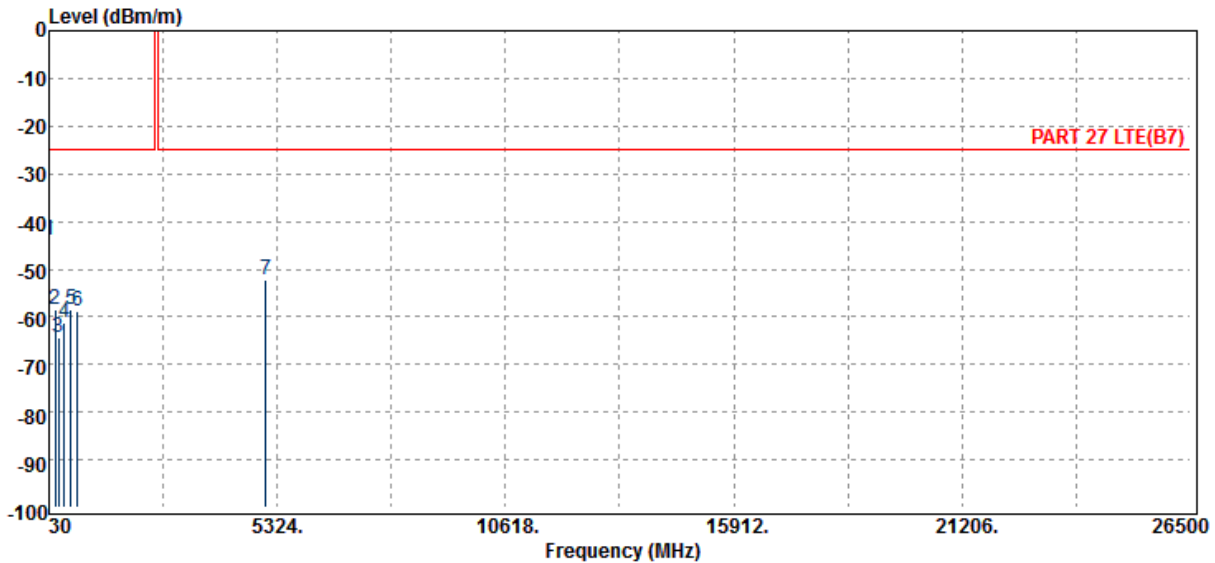
Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
31.94	S	-48.79	-34.11	-14.08	-0.59	-25.00	-23.79
173.56	S	-59.44	-58.05	-0.04	-1.35	-25.00	-34.44
296.75	S	-65.64	-67.38	3.55	-1.81	-25.00	-40.64
398.60	S	-65.31	-66.93	3.72	-2.10	-25.00	-40.31
542.16	S	-62.03	-64.16	3.99	-1.87	-25.00	-37.03
689.60	S	-61.91	-62.64	3.71	-2.98	-25.00	-36.91
5020.00	H	-48.37	-52.88	12.53	-8.01	-25.00	-23.37

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Operation Band :LTE B7 Temp./Humi. :24.1 deg_C / 65 RH
 Fundamental Frequency :2535 MHz Engineer :Tin
 Operation Mode :Tx CH MID
 EUT Pol. :E2 Plane Measurement Antenna Pol.:VERTICAL



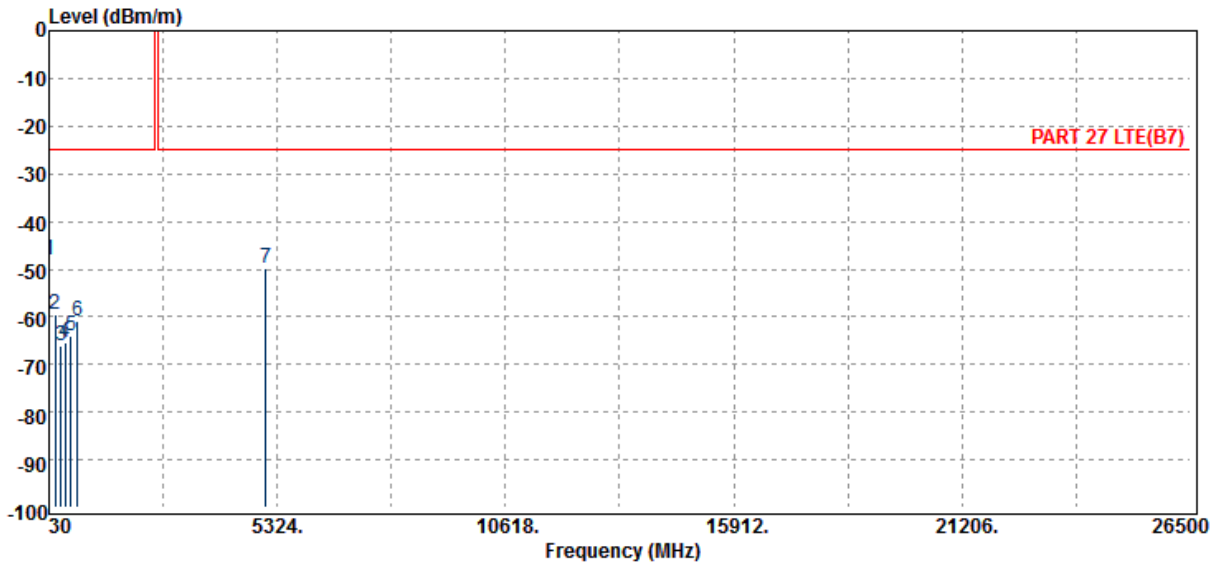
Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
31.94	S	-43.91	-29.24	-14.08	-0.59	-25.00	-18.91
173.56	S	-58.38	-56.99	-0.04	-1.35	-25.00	-33.38
241.46	S	-64.36	-66.17	3.49	-1.68	-25.00	-39.36
390.84	S	-61.17	-62.86	3.74	-2.05	-25.00	-36.17
537.31	S	-58.63	-60.56	4.00	-2.07	-25.00	-33.63
699.30	S	-58.83	-60.27	3.68	-2.24	-25.00	-33.83
5064.00	H	-52.33	-56.81	12.58	-8.10	-25.00	-27.33

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Operation Band	:LTE B7	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:2535 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID	Measurement Antenna	:HORIZONTAL
EUT Pol.	:E2 Plane	Pol.	



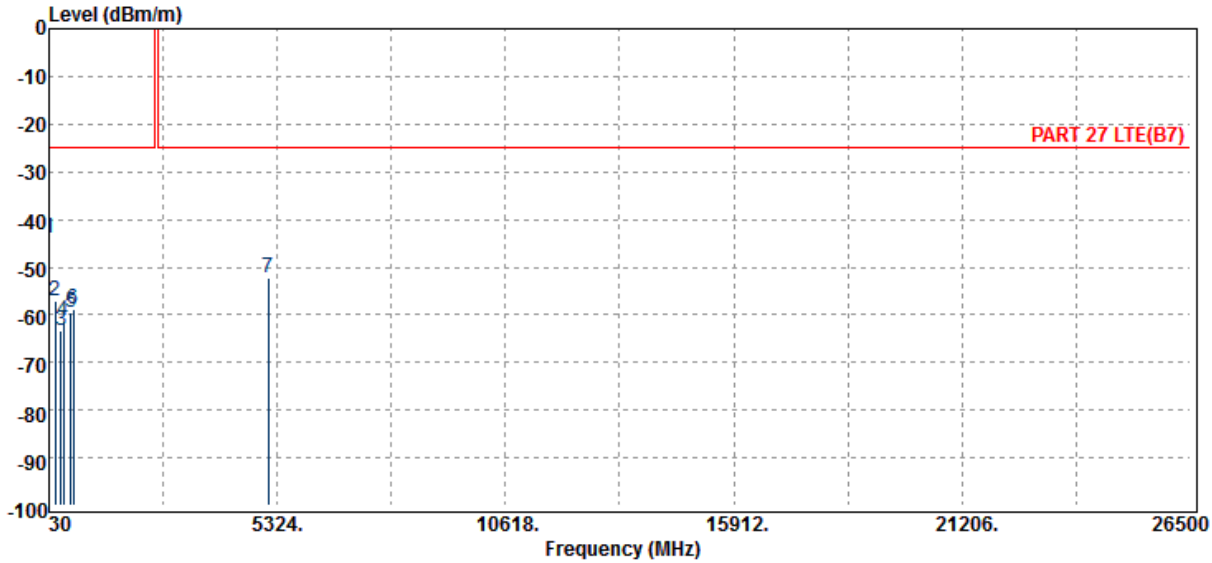
Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	S	-48.02	-32.86	-14.58	-0.58	-25.00	-23.02
173.56	S	-59.44	-58.05	-0.04	-1.35	-25.00	-34.44
299.66	S	-66.19	-67.98	3.61	-1.82	-25.00	-41.19
410.24	S	-65.42	-66.96	3.68	-2.13	-25.00	-40.42
536.34	S	-64.07	-65.96	4.00	-2.11	-25.00	-39.07
699.30	S	-60.90	-62.34	3.68	-2.24	-25.00	-35.90
5064.00	H	-49.77	-54.25	12.58	-8.10	-25.00	-24.77

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Operation Band	:LTE B7	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:2560 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



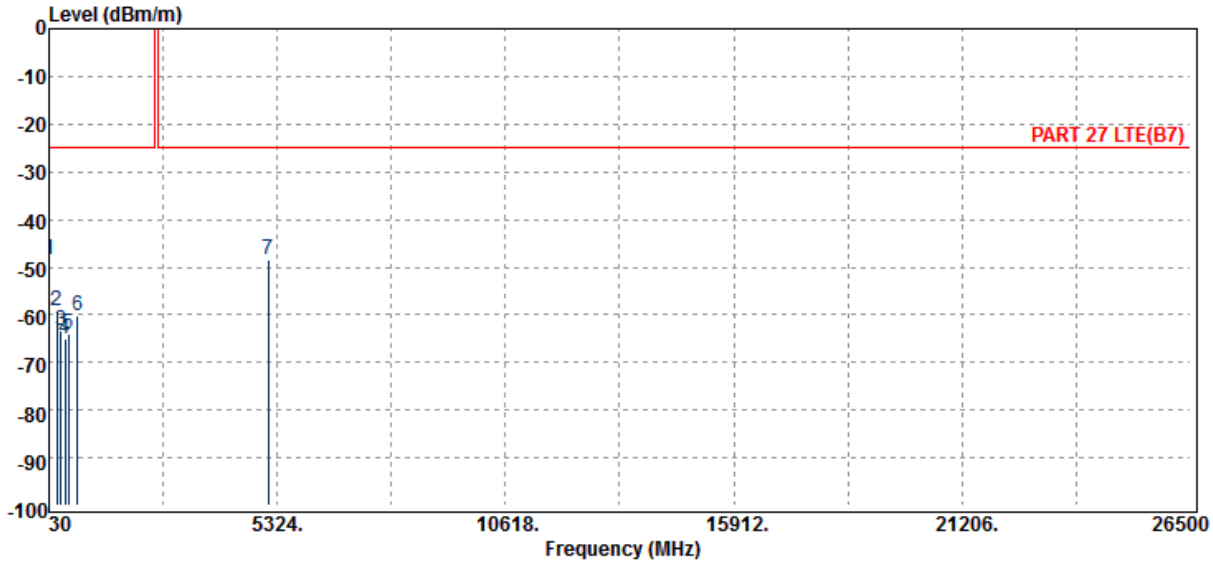
Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
32.91	S	-43.85	-29.41	-13.84	-0.60	-25.00	-18.85
170.65	S	-57.21	-55.36	-0.51	-1.33	-25.00	-32.21
299.66	S	-63.45	-65.24	3.61	-1.82	-25.00	-38.45
356.89	S	-61.36	-63.15	3.83	-2.05	-25.00	-36.36
542.16	S	-59.57	-61.69	3.99	-1.87	-25.00	-34.57
590.66	S	-58.91	-60.32	3.62	-2.21	-25.00	-33.91
5120.00	H	-52.40	-56.95	12.65	-8.10	-25.00	-27.40

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Operation Band	:LTE B7	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:2560 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	S	-48.31	-33.15	-14.58	-0.58	-25.00	-23.31
212.36	S	-59.31	-61.39	3.62	-1.54	-25.00	-34.31
299.66	S	-63.47	-65.25	3.61	-1.82	-25.00	-38.47
396.66	S	-65.19	-66.82	3.72	-2.09	-25.00	-40.19
483.96	S	-63.92	-65.95	3.89	-1.85	-25.00	-38.92
689.60	S	-60.22	-60.94	3.71	-2.98	-25.00	-35.22
5120.00	H	-48.42	-52.96	12.65	-8.10	-25.00	-23.42

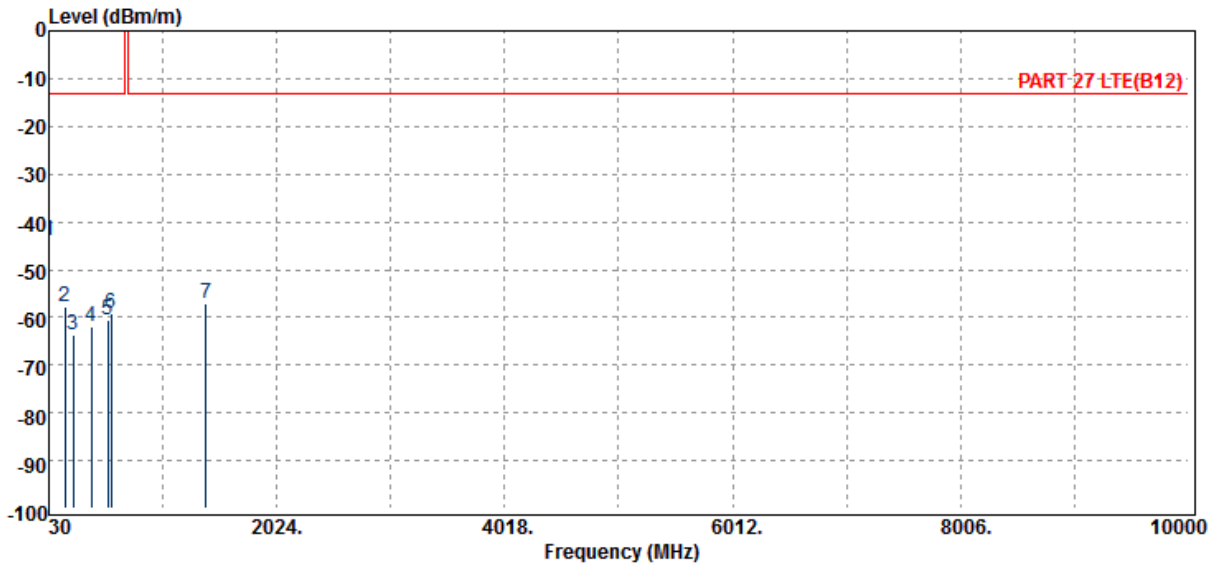
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Radiated Spurious Emission Measurement Result: LTE-Band 12 (The Worst Case)

Operation Band :LTE B12 Temp./Humi. :24.1 deg_C / 65 RH
 Fundamental Frequency :701.5 MHz Engineer :Tin
 Operation Mode :Tx CH LOW
 EUT Pol. :E2 Plane Measurement Antenna Pol.:VERTICAL



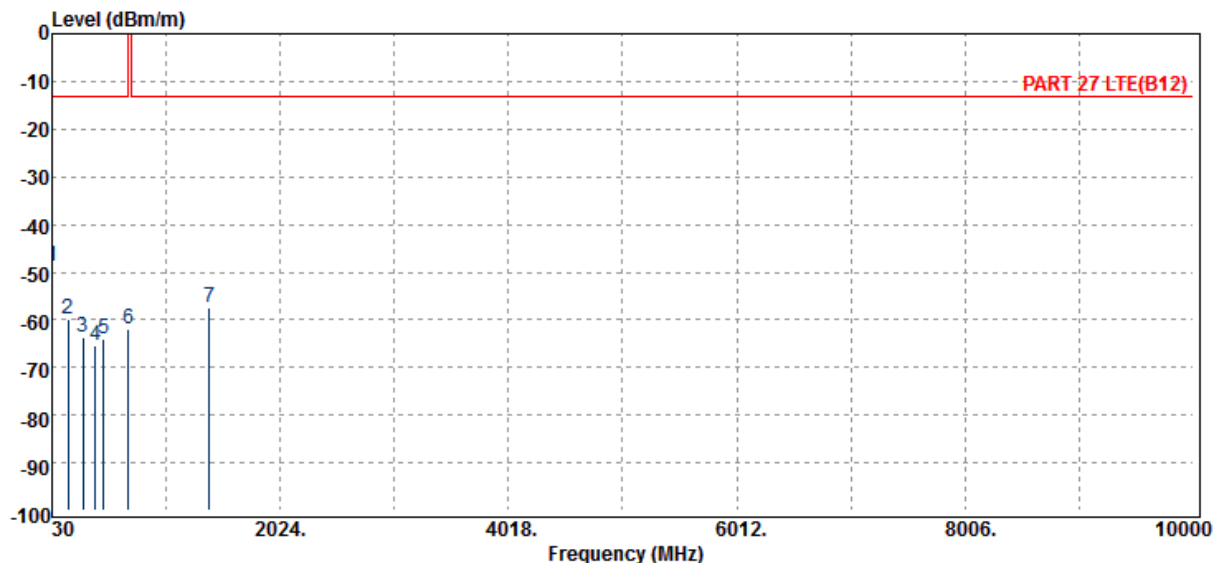
Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
31.94	S	-43.82	-29.15	-14.08	-0.59	-13.00	-30.82
168.71	S	-57.86	-55.84	-0.70	-1.33	-13.00	-44.86
243.40	S	-63.73	-65.54	3.50	-1.68	-13.00	-50.73
400.54	S	-61.82	-63.41	3.71	-2.12	-13.00	-48.82
546.04	S	-60.50	-62.68	3.99	-1.81	-13.00	-47.50
571.26	S	-59.09	-60.23	3.79	-2.65	-13.00	-46.09
1403.00	H	-57.04	-61.26	8.20	-3.99	-13.00	-44.04

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Operation Band	:LTE B12	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:701.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



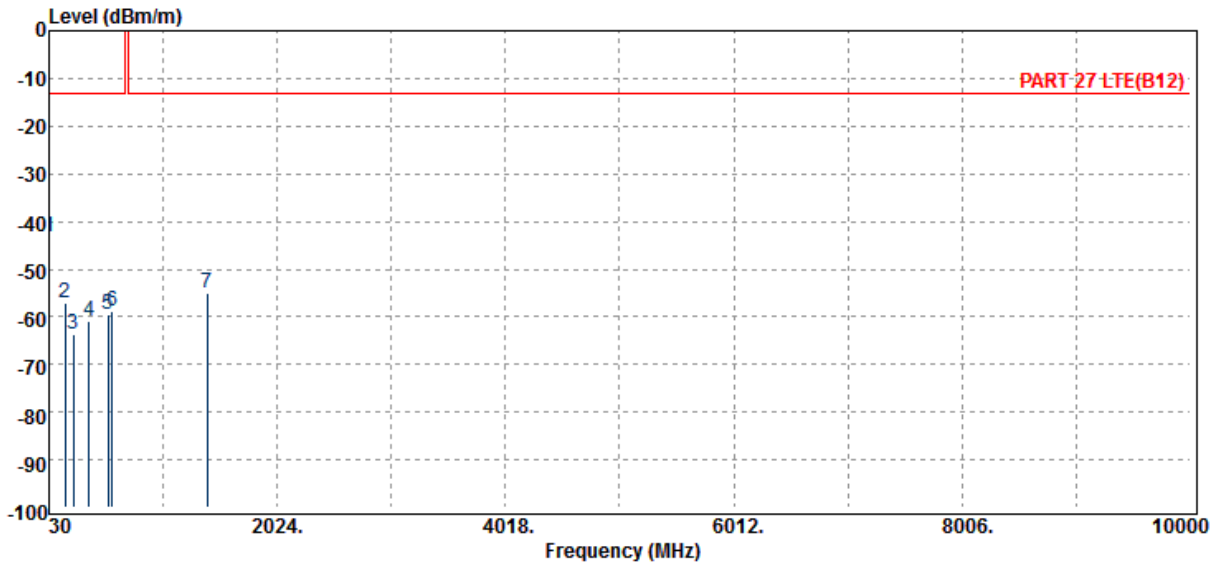
Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	S	-48.82	-33.66	-14.58	-0.58	-13.00	-35.82
173.56	S	-59.95	-58.56	-0.04	-1.35	-13.00	-46.95
299.66	S	-63.54	-65.33	3.61	-1.82	-13.00	-50.54
405.39	S	-65.55	-67.09	3.69	-2.15	-13.00	-52.55
481.05	S	-63.91	-65.81	3.86	-1.96	-13.00	-50.91
696.39	S	-61.82	-63.05	3.69	-2.46	-13.00	-48.82
1403.00	H	-57.54	-61.76	8.20	-3.99	-13.00	-44.54

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Operation Band	:LTE B12	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:707.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID	Measurement Antenna	:VERTICAL
EUT Pol.	:E2 Plane	Pol.	



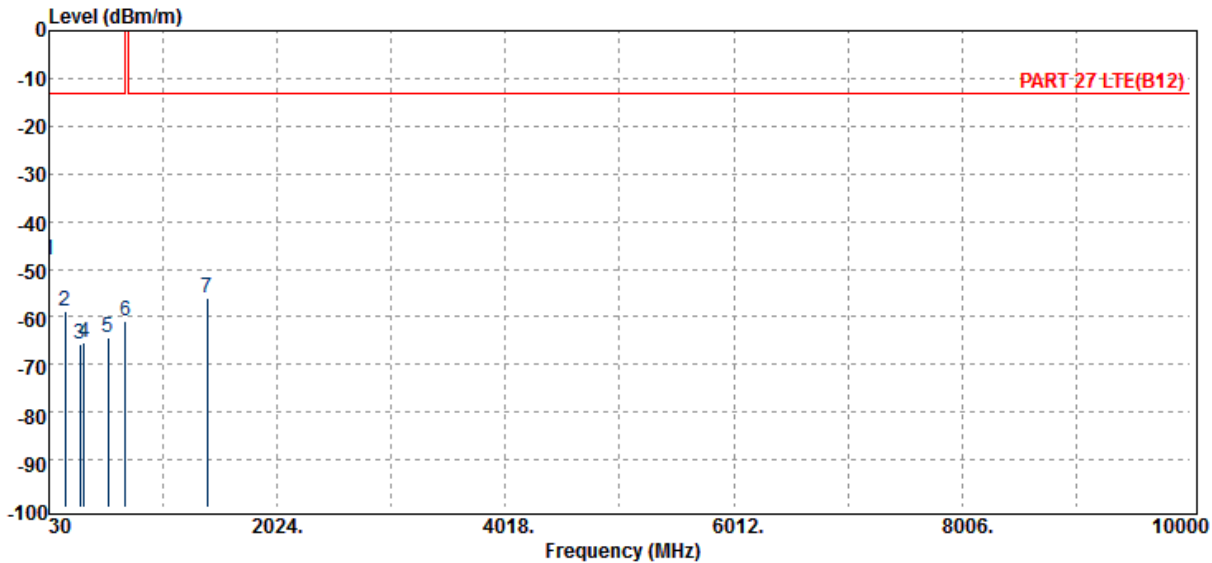
Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
31.94	S	-43.28	-28.61	-14.08	-0.59	-13.00	-30.28
172.59	S	-57.11	-55.57	-0.20	-1.34	-13.00	-44.11
241.46	S	-63.55	-65.36	3.49	-1.68	-13.00	-50.55
376.29	S	-60.92	-62.66	3.78	-2.03	-13.00	-47.92
546.04	S	-59.45	-61.62	3.99	-1.81	-13.00	-46.45
579.99	S	-58.82	-60.14	3.71	-2.39	-13.00	-45.82
1415.00	H	-54.97	-59.22	8.25	-4.01	-13.00	-41.97

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Operation Band :LTE B12 Temp./Humi. :24.1 deg_C / 65 RH
 Fundamental Frequency :707.5 MHz Engineer :Tin
 Operation Mode :Tx CH MID
 EUT Pol. :E2 Plane Measurement Antenna Pol. :HORIZONTAL



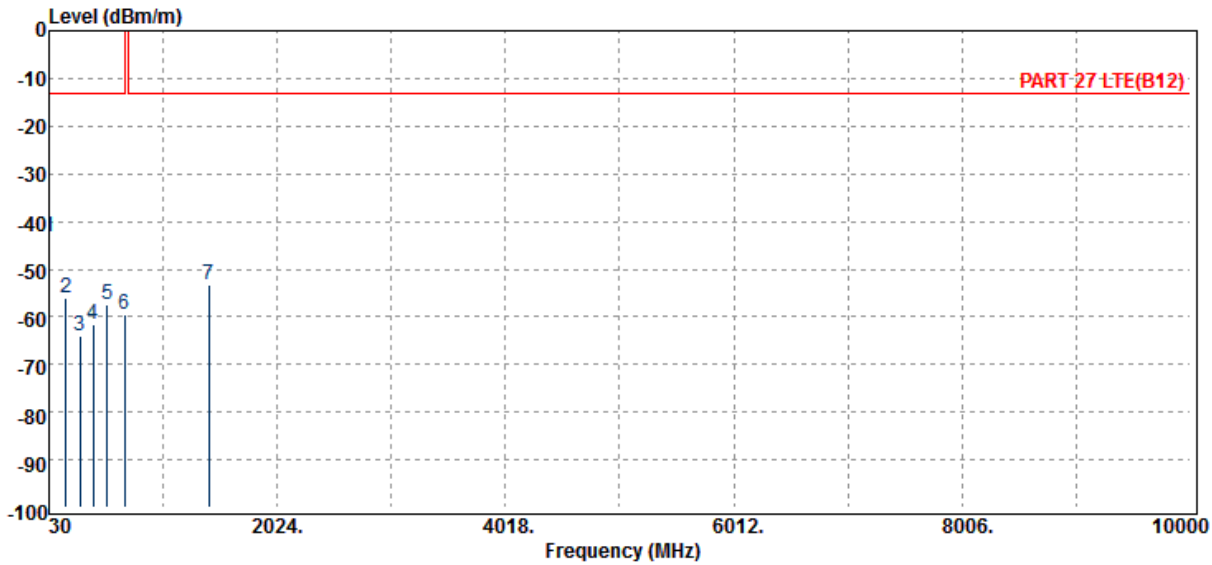
Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	S	-48.10	-32.94	-14.58	-0.58	-13.00	-35.10
173.56	S	-58.90	-57.51	-0.04	-1.35	-13.00	-45.90
298.69	S	-65.64	-67.41	3.59	-1.82	-13.00	-52.64
335.55	S	-65.45	-67.29	3.79	-1.95	-13.00	-52.45
547.01	S	-64.52	-66.64	3.98	-1.86	-13.00	-51.52
700.27	S	-60.85	-62.37	3.67	-2.16	34.77	-95.62
1415.00	H	-56.08	-60.33	8.25	-4.01	-13.00	-43.08

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Operation Band :LTE B12 Temp./Humi. :24.1 deg_C / 65 RH
 Fundamental Frequency :713.5 MHz Engineer :Tin
 Operation Mode :Tx CH HIGH
 EUT Pol. :E2 Plane Measurement Antenna Pol.:VERTICAL



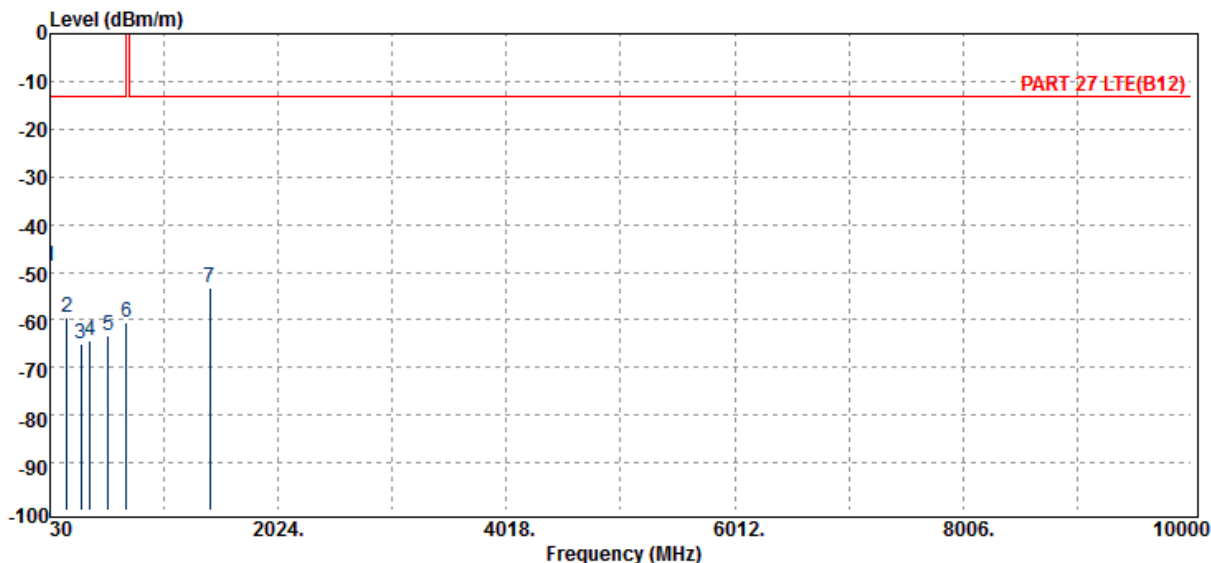
Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
31.94	S	-43.42	-28.75	-14.08	-0.59	-13.00	-30.42
175.50	S	-56.12	-55.04	0.27	-1.36	-13.00	-43.12
299.66	S	-64.12	-65.90	3.61	-1.82	-13.00	-51.12
413.15	S	-61.48	-63.02	3.67	-2.13	-13.00	-48.48
541.19	S	-57.58	-59.66	3.99	-1.91	-13.00	-44.58
686.69	S	-59.49	-59.99	3.72	-3.21	-13.00	-46.49
1427.00	H	-53.24	-57.51	8.30	-4.03	-13.00	-40.24

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Operation Band :LTE B12 Temp./Humi. :24.1 deg_C / 65 RH
 Fundamental Frequency :713.5 MHz Engineer :Tin
 Operation Mode :Tx CH HIGH
 EUT Pol. :E2 Plane Measurement Antenna Pol. :HORIZONTAL

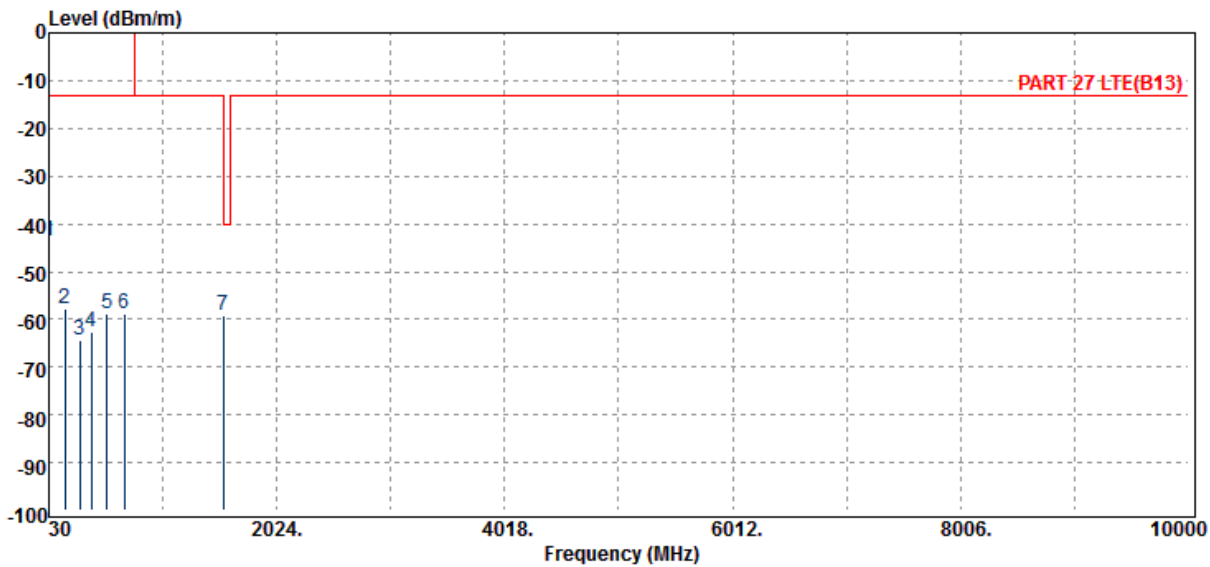


Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	S	-48.85	-33.69	-14.58	-0.58	-13.00	-35.85
175.50	S	-59.50	-58.42	0.27	-1.36	-13.00	-46.50
298.69	S	-65.19	-66.96	3.59	-1.82	-13.00	-52.19
376.29	S	-64.45	-66.20	3.78	-2.03	-13.00	-51.45
536.34	S	-63.23	-65.12	4.00	-2.11	-13.00	-50.23
697.36	S	-60.54	-61.84	3.68	-2.38	-13.00	-47.54
1427.00	H	-53.36	-57.64	8.30	-4.03	-13.00	-40.36

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

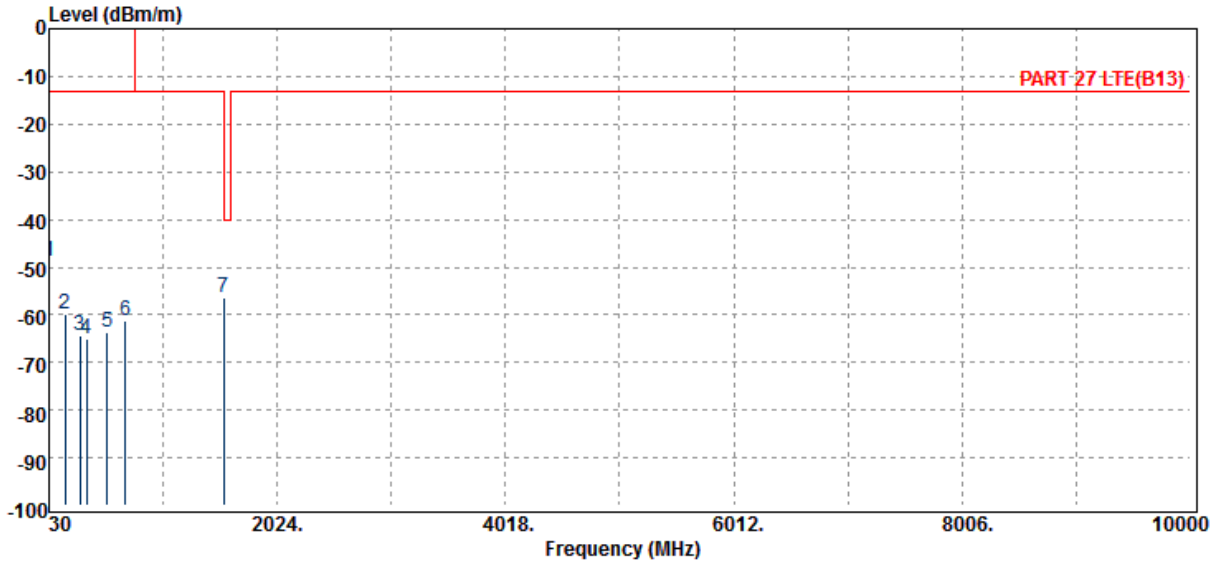
Operation Band :LTE B13 Temp./Humi. :24.1 deg_C / 65 RH
 Fundamental Frequency :779.5 MHz Engineer :Tin
 Operation Mode :Tx CH LOW
 EUT Pol. :E2 Plane Measurement Pol. Antenna :VERTICAL



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
31.94	S	-43.46	-28.79	-14.08	-0.59	-13.00	-30.46
168.71	S	-57.90	-55.88	-0.70	-1.33	-13.00	-44.90
298.69	S	-64.35	-66.13	3.59	-1.82	-13.00	-51.35
398.60	S	-62.63	-64.24	3.72	-2.10	-13.00	-49.63
539.25	S	-58.88	-60.89	4.00	-1.99	-13.00	-45.88
689.60	S	-58.98	-59.70	3.71	-2.98	-13.00	-45.98
1559.00	H	-59.31	-61.72	6.66	-4.25	-40.00	-19.31

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Operation Band	:LTE B13	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:779.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



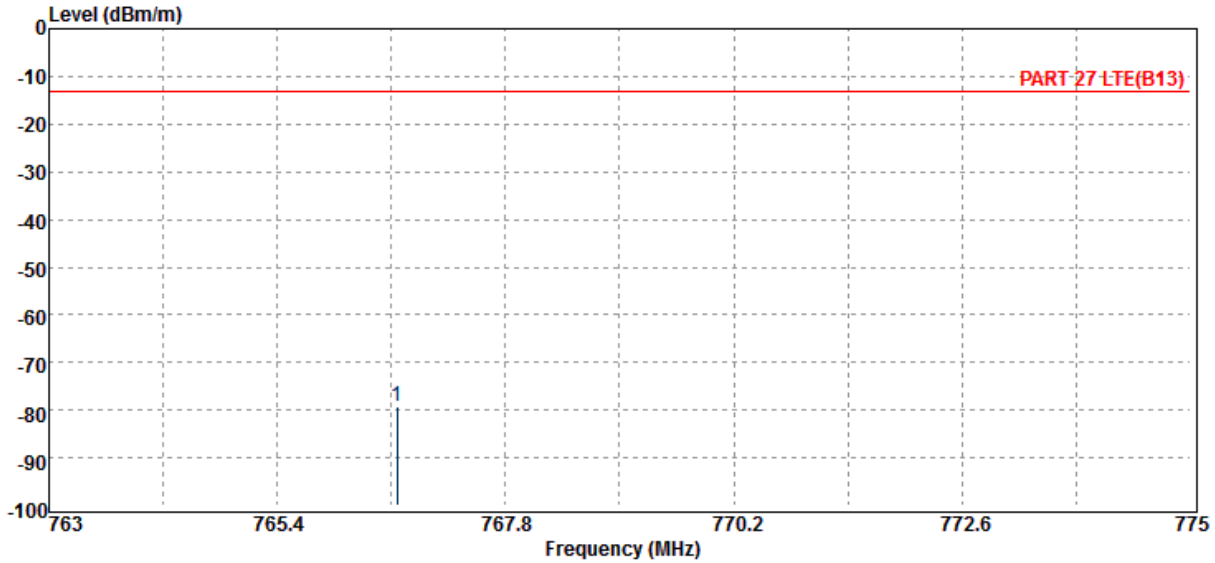
Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	S	-48.72	-33.56	-14.58	-0.58	-13.00	-35.72
172.59	S	-59.91	-58.38	-0.20	-1.34	-13.00	-46.91
299.66	S	-64.48	-66.27	3.61	-1.82	-13.00	-51.48
357.86	S	-65.11	-66.89	3.83	-2.05	-13.00	-52.11
541.19	S	-63.71	-65.80	3.99	-1.91	-13.00	-50.71
699.30	S	-61.08	-62.52	3.68	-2.24	-13.00	-48.08
1559.00	H	-56.43	-58.84	6.66	-4.25	-40.00	-16.43

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Operation Band	:LTE B13	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:779.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



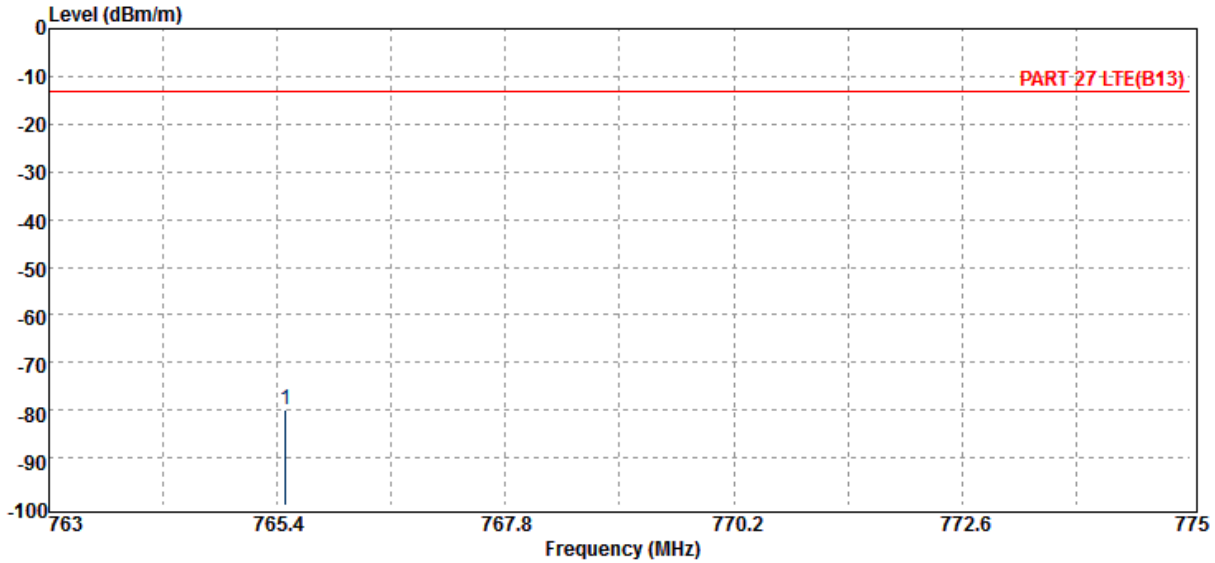
Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
766.66	S	-79.27	-81.10	3.46	-1.64	-13.00	-66.27

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Operation Band	:LTE B13	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:779.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



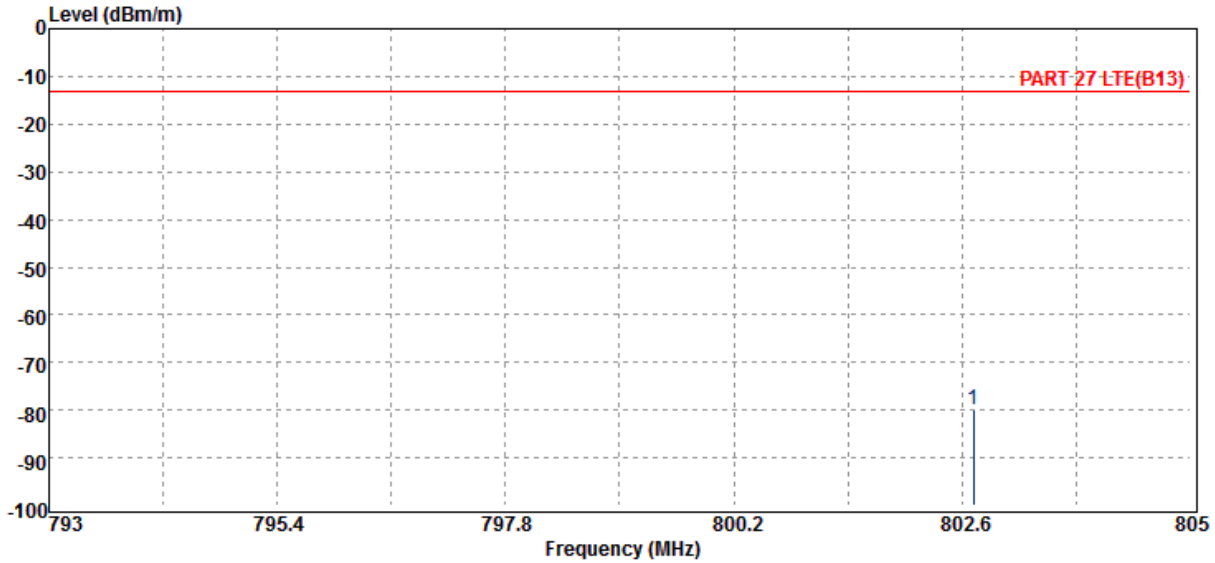
Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
765.48	S	-79.85	-81.81	3.46	-1.50	-13.00	-66.85

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Operation Band	:LTE B13	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:779.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
802.72	S	-79.81	-81.06	3.44	-2.18	-13.00	-66.81

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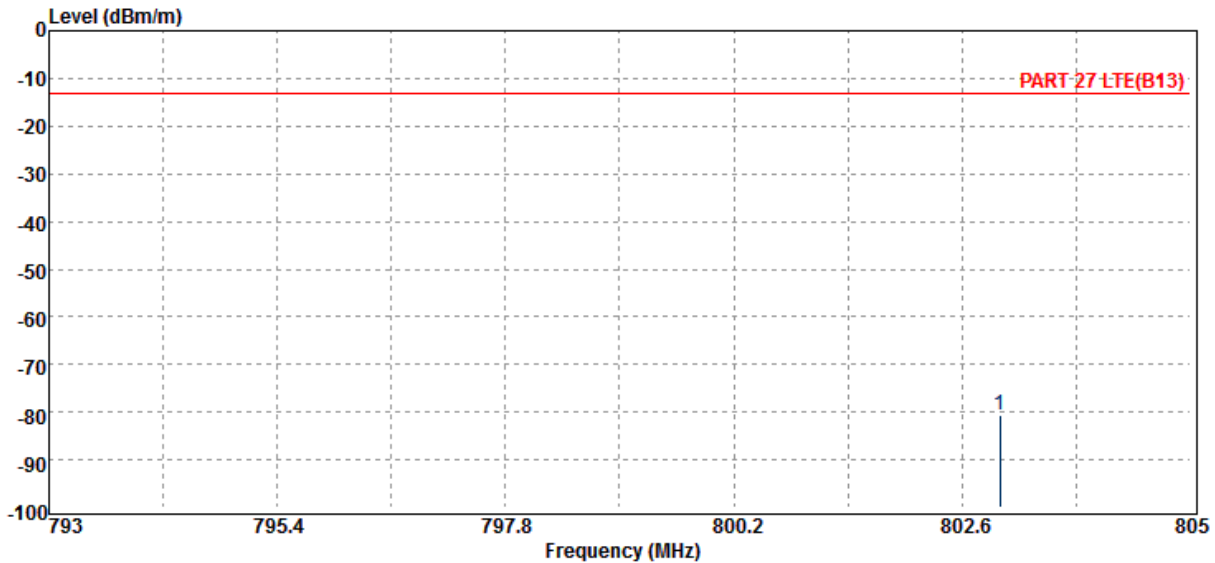
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Operation Band	:LTE B13	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:779.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



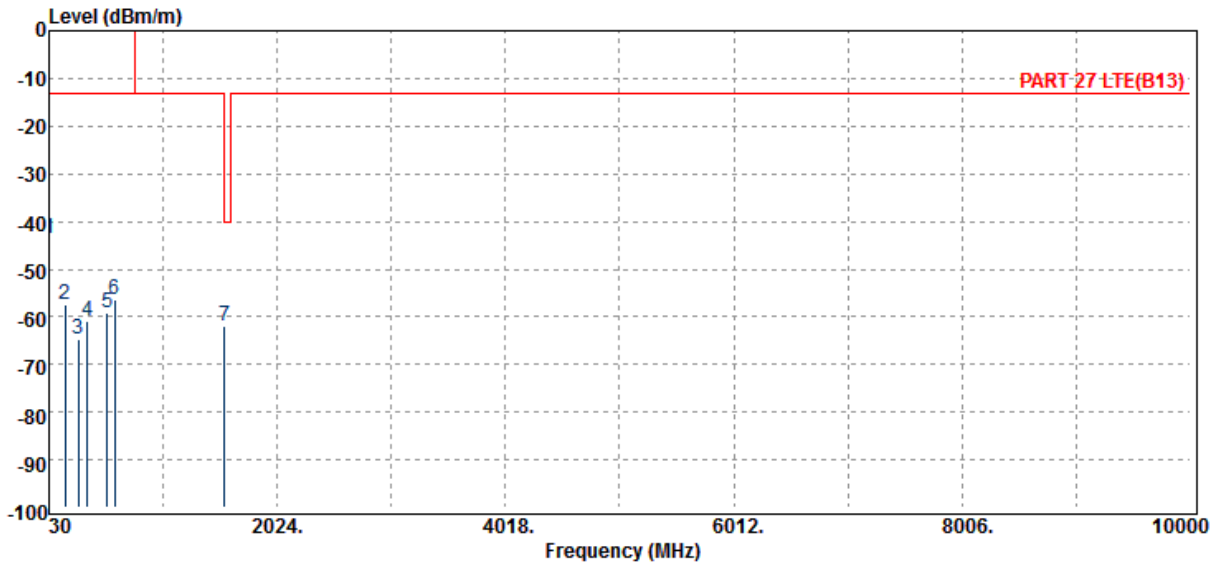
Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
803.00	S	-80.51	-81.79	3.44	-2.16	-13.00	-67.51

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Operation Band	:LTE B13	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:782.0 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
31.94	S	-43.54	-28.87	-14.08	-0.59	-13.00	-30.54
167.74	S	-57.33	-55.25	-0.76	-1.32	-13.00	-44.33
287.05	S	-64.72	-66.37	3.42	-1.77	-13.00	-51.72
367.56	S	-60.95	-62.69	3.80	-2.06	-13.00	-47.95
536.34	S	-59.27	-61.17	4.00	-2.11	-13.00	-46.27
605.21	S	-56.46	-57.88	3.57	-2.15	-13.00	-43.46
1564.00	H	-61.83	-64.25	6.68	-4.26	-40.00	-21.83

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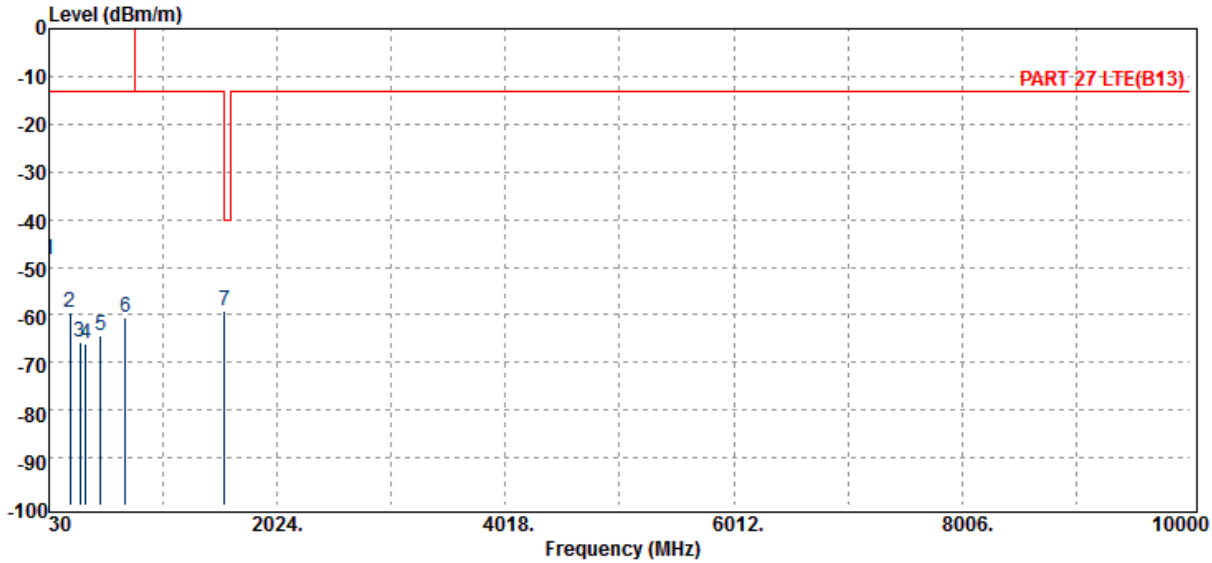
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Operation Band	:LTE B13	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:782.0 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	S	-48.43	-33.27	-14.58	-0.58	-13.00	-35.43
214.30	S	-59.57	-61.57	3.55	-1.55	-13.00	-46.57
299.66	S	-65.61	-67.39	3.61	-1.82	-13.00	-52.61
352.04	S	-66.08	-67.90	3.85	-2.03	-13.00	-53.08
483.96	S	-64.31	-66.34	3.89	-1.85	-13.00	-51.31
697.36	S	-60.69	-61.99	3.68	-2.38	-13.00	-47.69
1564.00	H	-59.04	-61.47	6.68	-4.26	-40.00	-19.04

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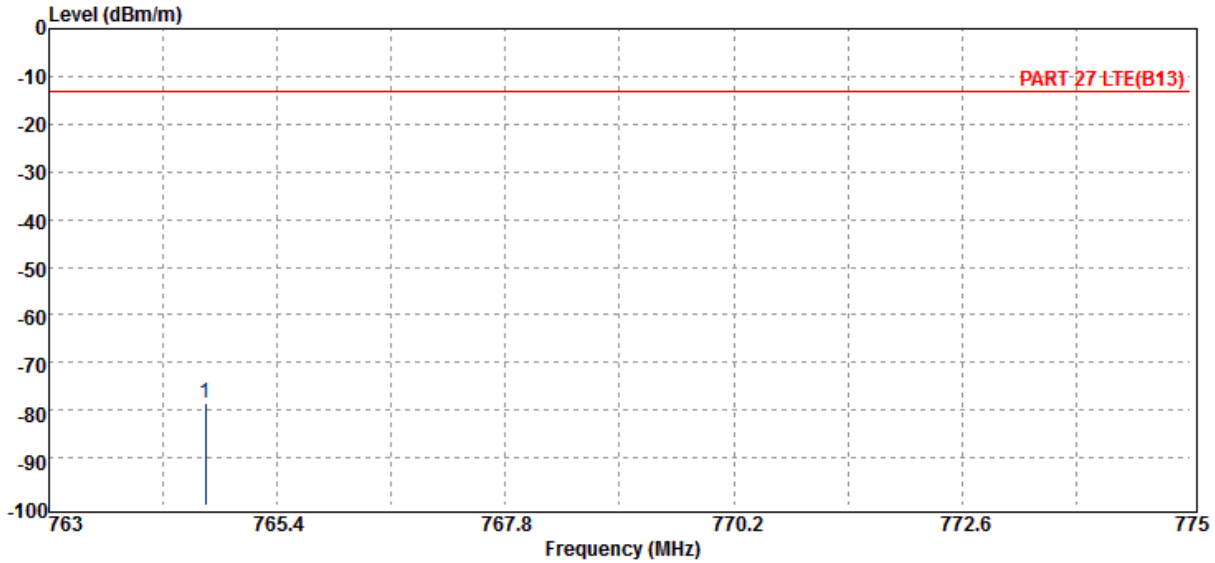
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Operation Band	:LTE B13	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:782.0 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



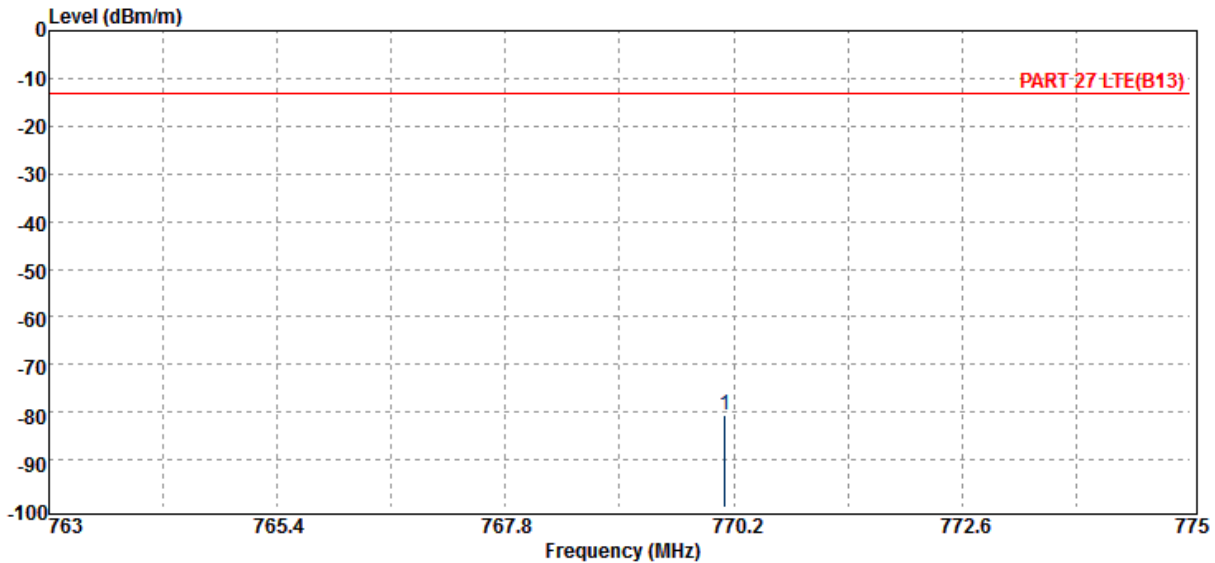
Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
764.64	S	-78.69	-80.68	3.46	-1.47	-13.00	-65.69

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Operation Band	:LTE B13	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:782.0 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



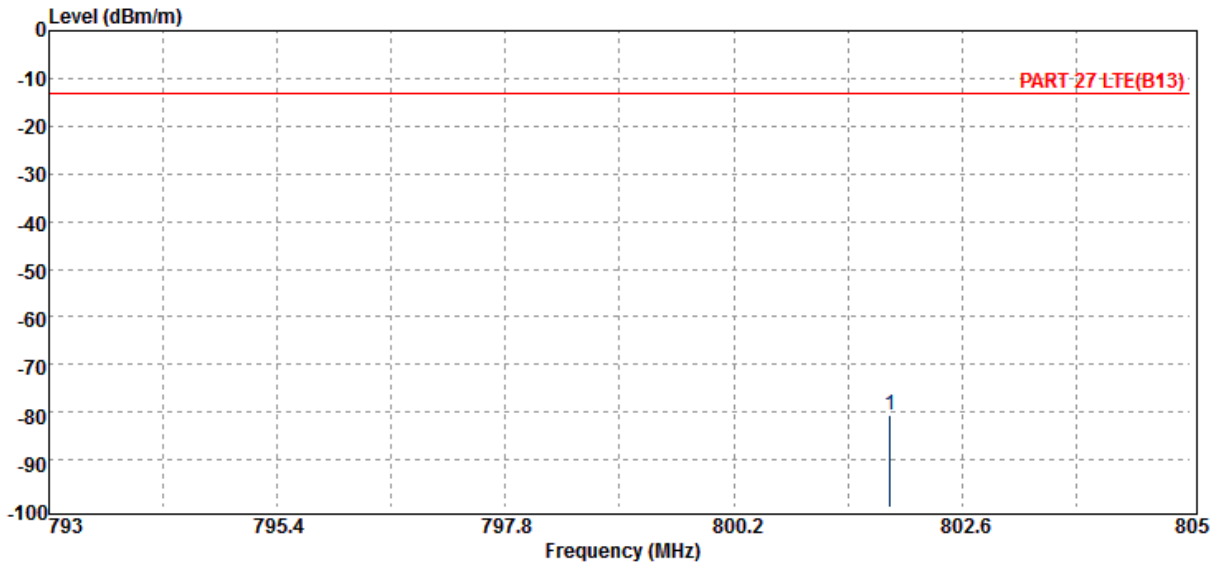
Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
770.10	S	-80.68	-82.11	3.46	-2.03	-13.00	-67.68

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Operation Band	:LTE B13	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:782.0 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



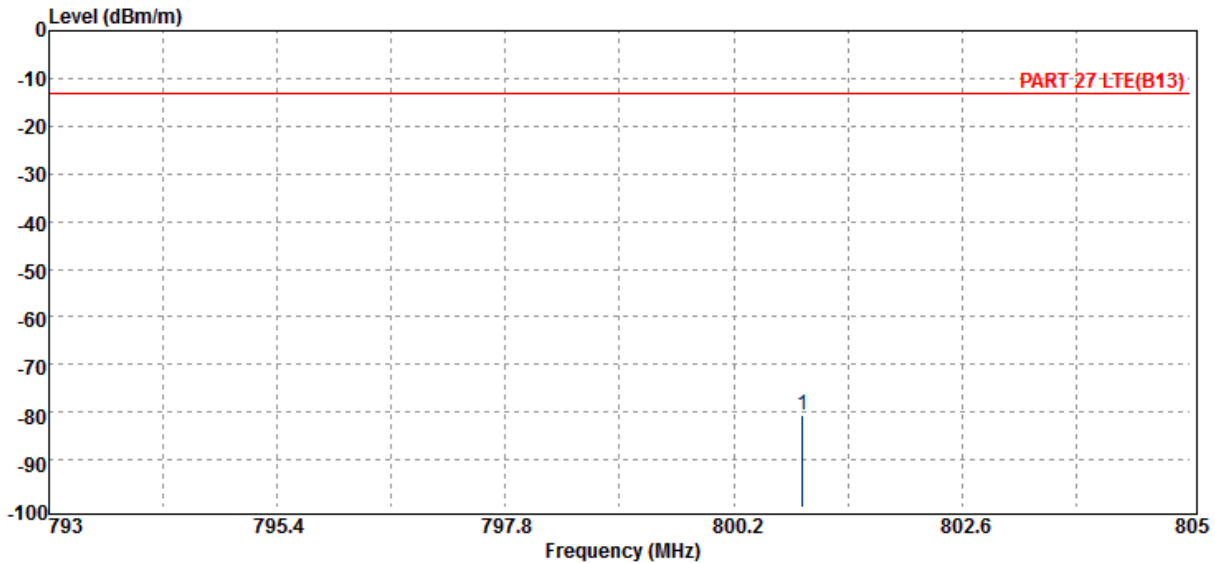
Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
801.84	S	-80.47	-81.65	3.44	-2.26	-13.00	-67.47

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Operation Band	:LTE B13	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:782.0 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
800.92	S	-80.54	-81.63	3.44	-2.34	-13.00	-67.54

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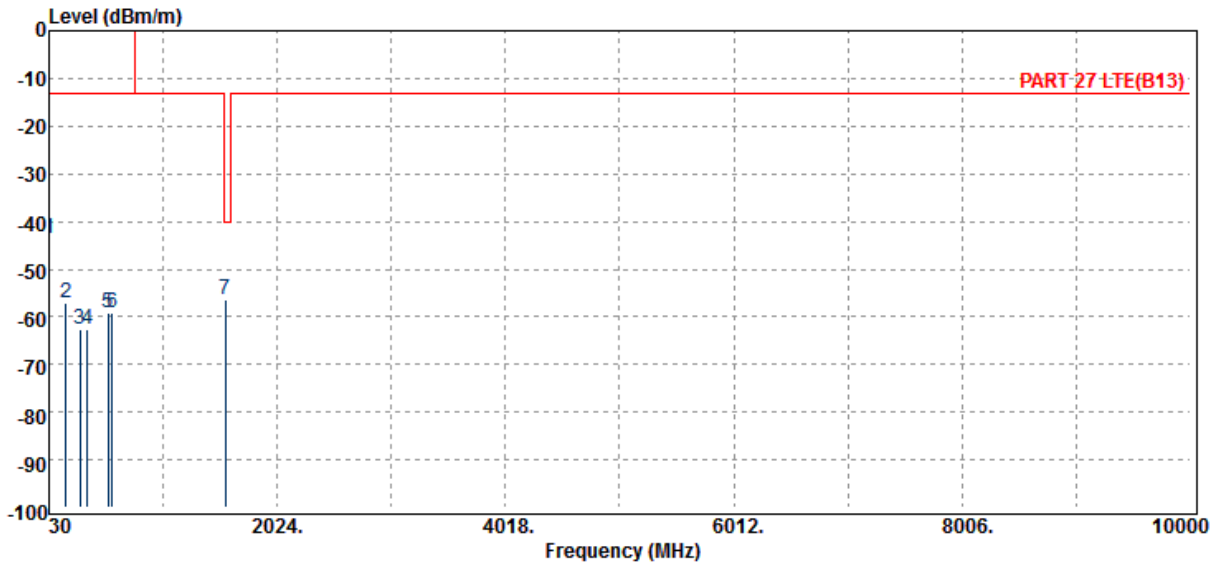
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Operation Band	:LTE B13	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:784.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH	Measurement Antenna	:VERTICAL
EUT Pol.	:E2 Plane	Pol.	



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
31.94	S	-43.77	-29.09	-14.08	-0.59	-13.00	-30.77
175.50	S	-57.10	-56.01	0.27	-1.36	-13.00	-44.10
299.66	S	-62.54	-64.32	3.61	-1.82	-13.00	-49.54
362.71	S	-62.54	-64.29	3.82	-2.07	-13.00	-49.54
547.01	S	-59.01	-61.13	3.98	-1.86	-13.00	-46.01
580.96	S	-59.16	-60.50	3.70	-2.36	-13.00	-46.16
1569.00	H	-56.42	-58.85	6.70	-4.27	-40.00	-16.42

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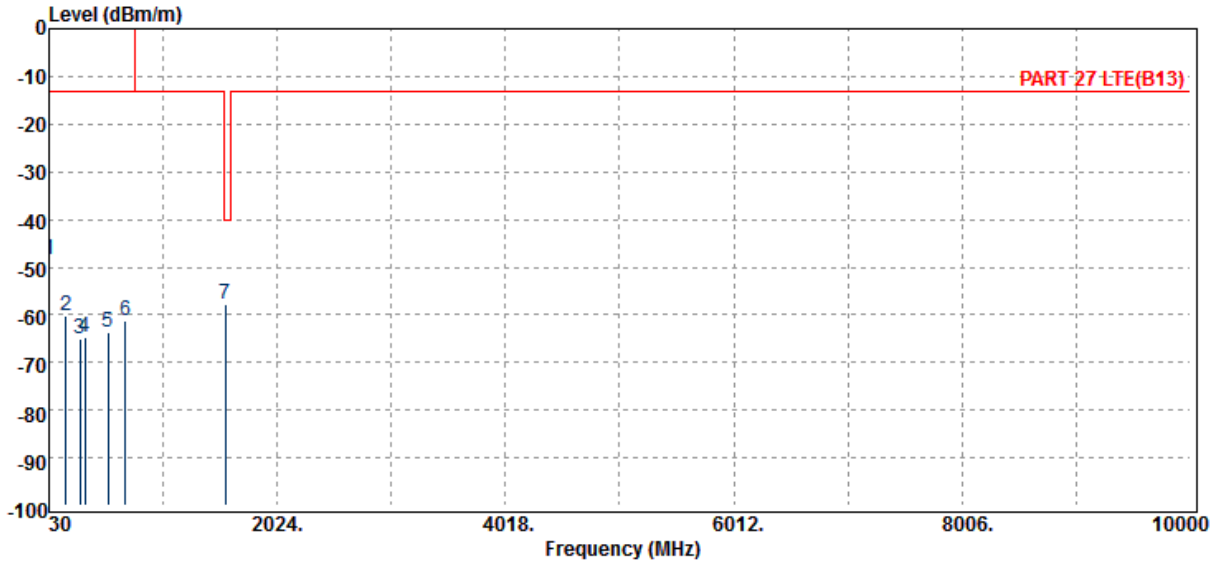
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Operation Band	:LTE B13	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:784.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	S	-48.34	-33.18	-14.58	-0.58	-13.00	-35.34
177.44	S	-60.11	-59.32	0.58	-1.37	-13.00	-47.11
299.66	S	-65.12	-66.90	3.61	-1.82	-13.00	-52.12
347.19	S	-64.74	-66.56	3.84	-2.02	-13.00	-51.74
548.95	S	-63.80	-65.81	3.98	-1.97	-13.00	-50.80
696.39	S	-61.13	-62.36	3.69	-2.46	-13.00	-48.13
1569.00	H	-57.64	-60.07	6.70	-4.27	-40.00	-17.64

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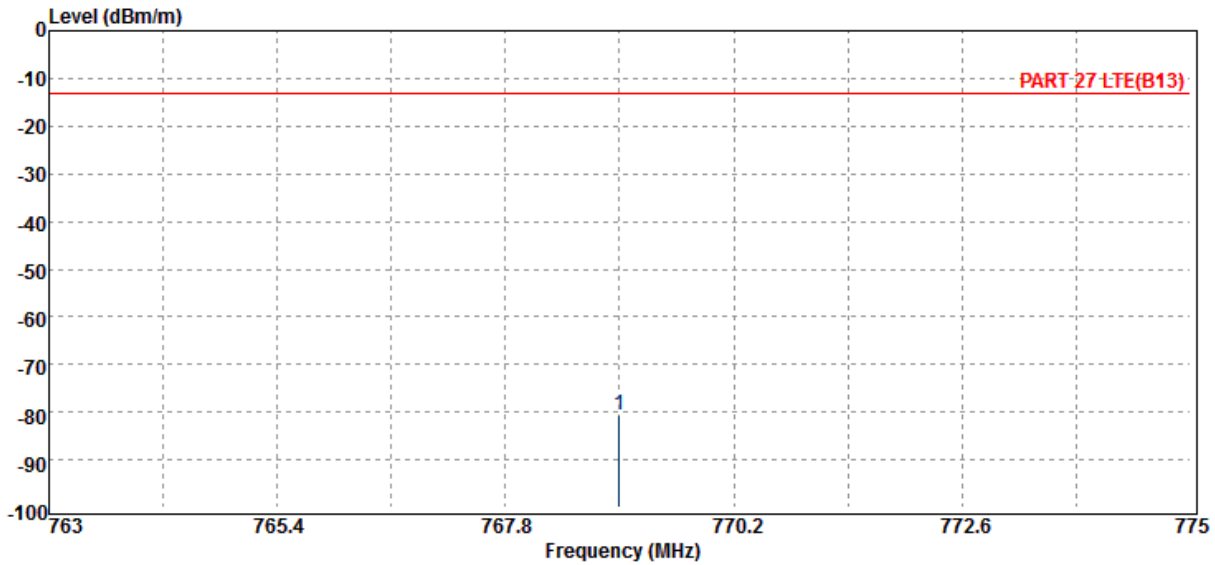
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Operation Band	:LTE B13	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:784.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:E2 Plane	Measurement Pol.	Antenna :VERTICAL



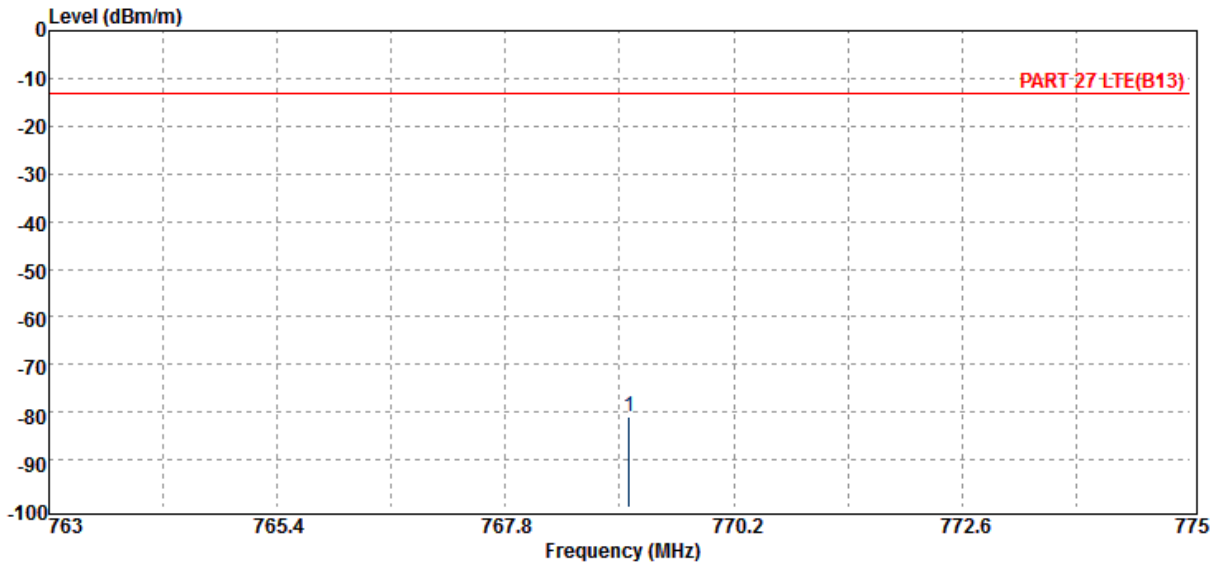
Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
769.00	S	-80.61	-82.16	3.46	-1.90	-13.00	-67.61

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Operation Band	:LTE B13	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:784.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
769.10	S	-81.05	-82.59	3.46	-1.92	-13.00	-68.05

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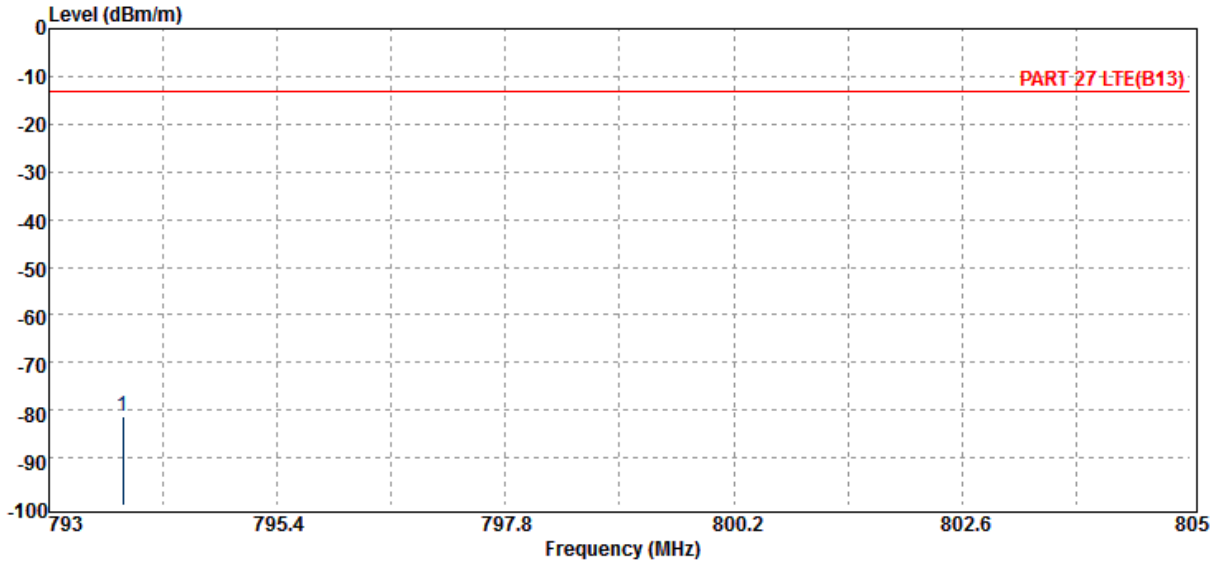
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Operation Band	:LTE B13	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:784.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:E2 Plane	Measurement Pol.	Antenna :VERTICAL



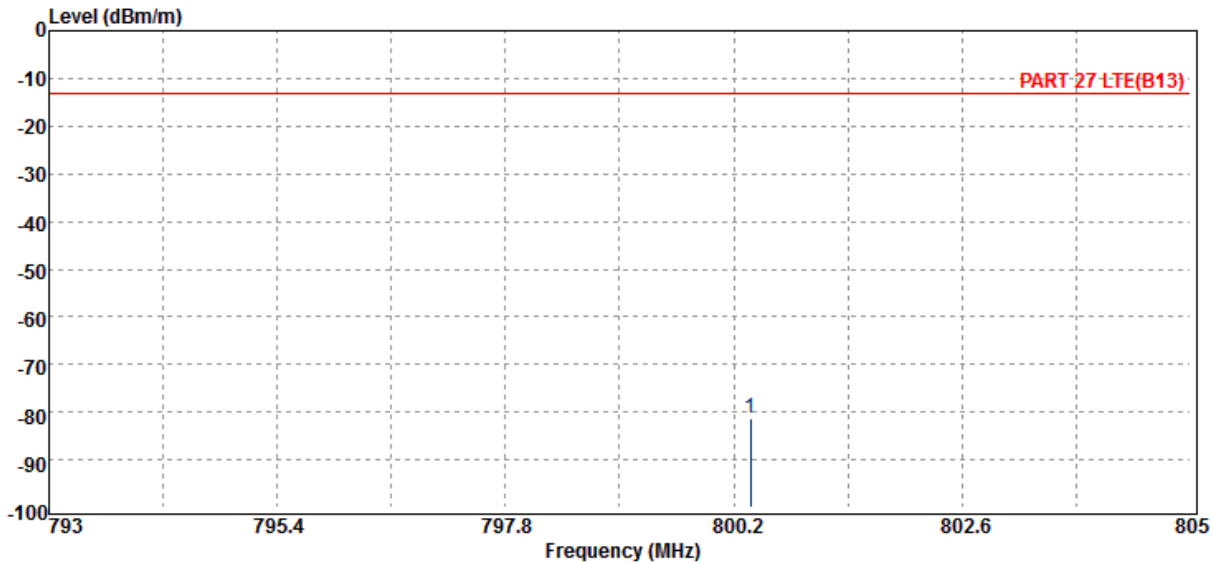
Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
793.78	S	-81.20	-81.68	3.44	-2.96	-13.00	-68.20

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Operation Band	:LTE B13	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:784.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:E2 Plane	Measurement Pol.	Antenna :HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
800.38	S	-81.45	-82.50	3.44	-2.39	-13.00	-68.45

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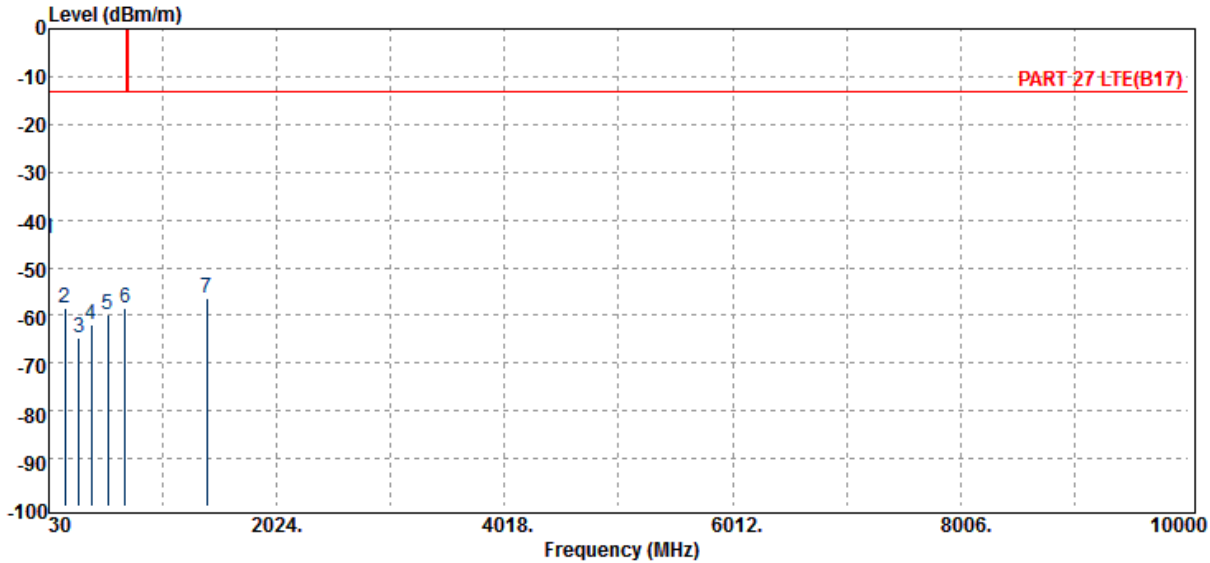
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Radiated Spurious Emission Measurement Result: LTE-Band 17 (The Worst Case)

Operation Band	:LTE B17	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:706.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



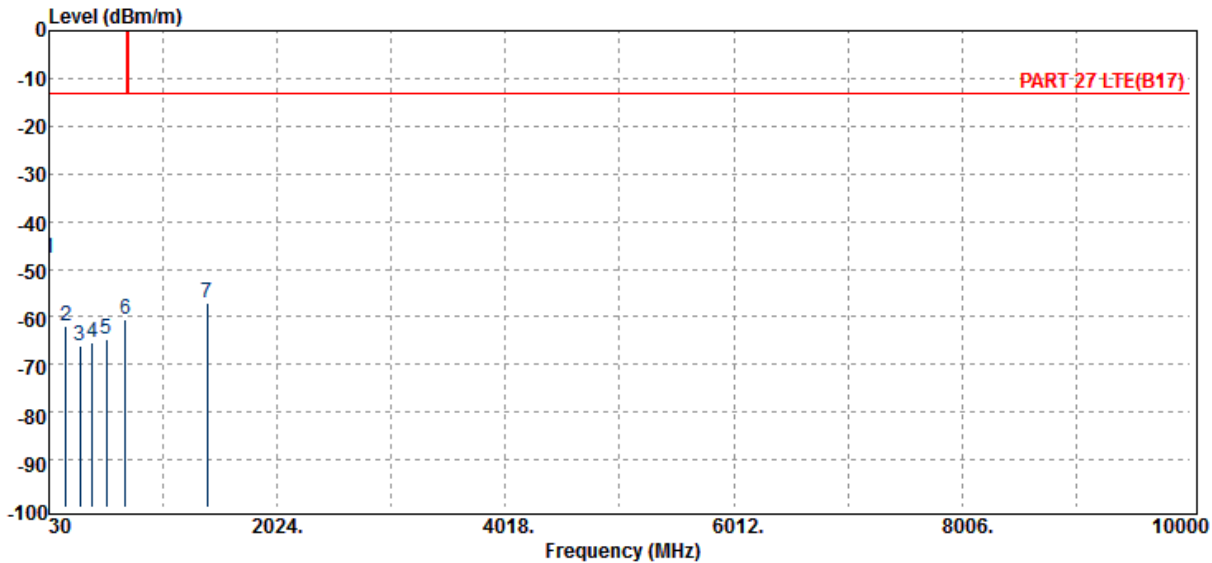
Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
31.94	S	-44.00	-29.32	-14.08	-0.59	-13.00	-31.00
168.71	S	-58.31	-56.29	-0.70	-1.33	-13.00	-45.31
296.75	S	-64.71	-66.45	3.55	-1.81	-13.00	-51.71
401.51	S	-61.88	-63.46	3.71	-2.13	-13.00	-48.88
548.95	S	-59.95	-61.96	3.98	-1.97	-13.00	-46.95
699.30	S	-58.65	-60.09	3.68	-2.24	-13.00	-45.65
1413.00	H	-56.36	-60.61	8.25	-4.00	-13.00	-43.36

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Operation Band	:LTE B17	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:706.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



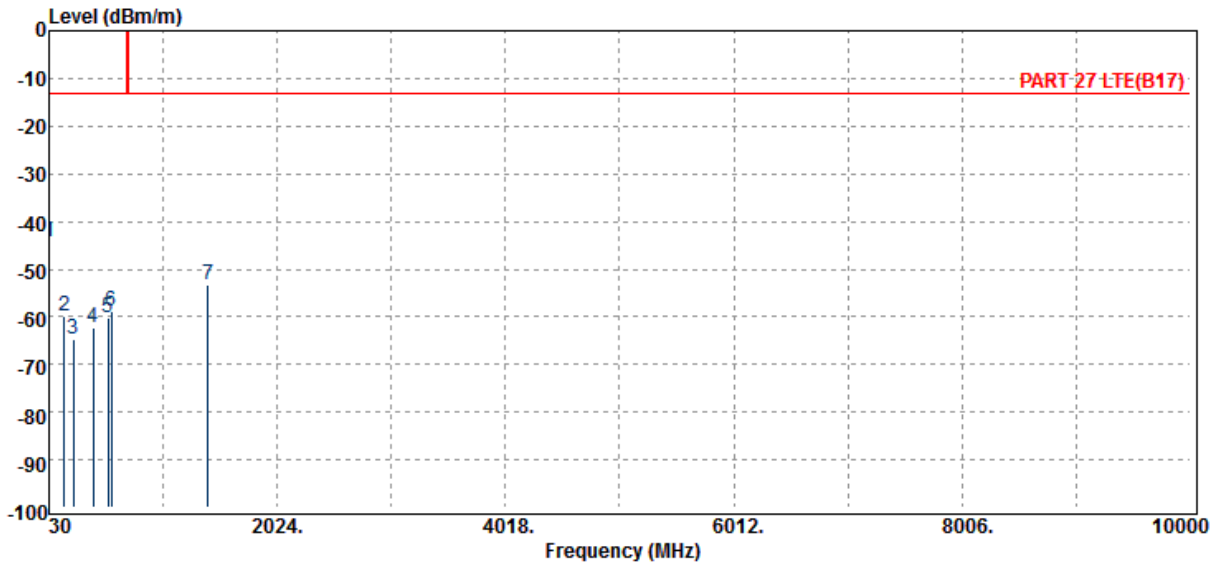
Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	S	-47.87	-32.71	-14.58	-0.58	-13.00	-34.87
175.50	S	-61.77	-60.68	0.27	-1.36	-13.00	-48.77
299.66	S	-66.08	-67.86	3.61	-1.82	-13.00	-53.08
406.36	S	-65.57	-67.11	3.69	-2.15	-13.00	-52.57
534.40	S	-64.58	-66.39	4.00	-2.19	-13.00	-51.58
696.39	S	-60.54	-61.77	3.69	-2.46	-13.00	-47.54
1413.00	H	-57.01	-61.26	8.25	-4.00	-13.00	-44.01

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Operation Band	:LTE B17	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:710 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



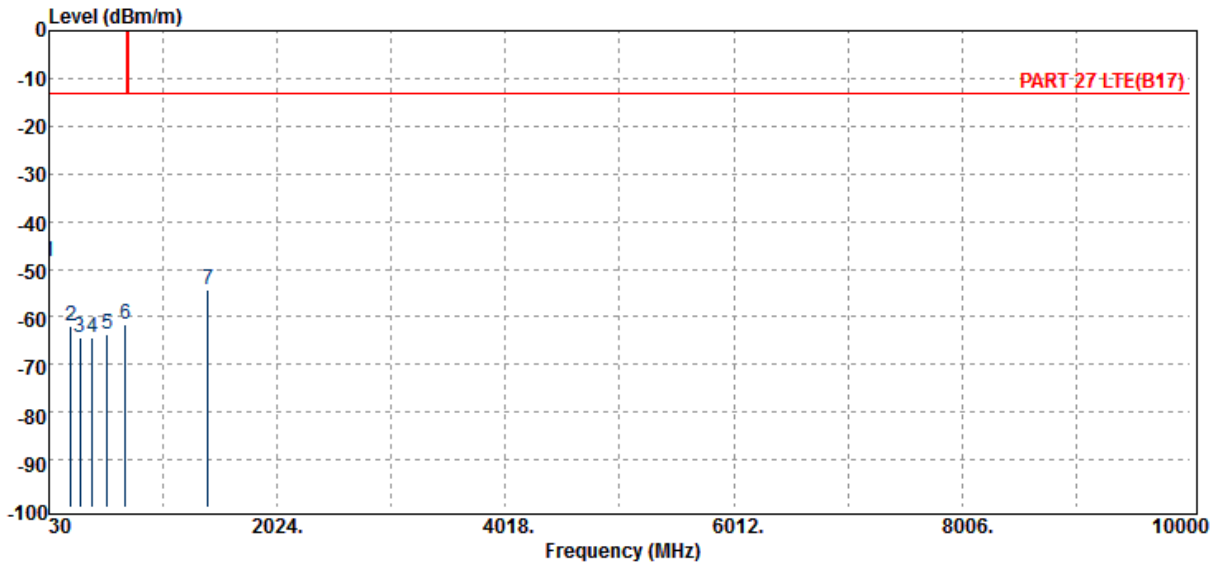
Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	S	-44.20	-29.04	-14.58	-0.58	-13.00	-31.20
165.80	S	-59.79	-57.60	-0.88	-1.31	-13.00	-46.79
241.46	S	-64.67	-66.49	3.49	-1.68	-13.00	-51.67
416.06	S	-62.22	-63.75	3.66	-2.12	-13.00	-49.22
544.10	S	-60.06	-62.26	3.99	-1.79	-13.00	-47.06
578.05	S	-58.66	-59.94	3.73	-2.45	-13.00	-45.66
1420.00	H	-53.45	-57.71	8.28	-4.01	-13.00	-40.45

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Operation Band	:LTE B17	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:710 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



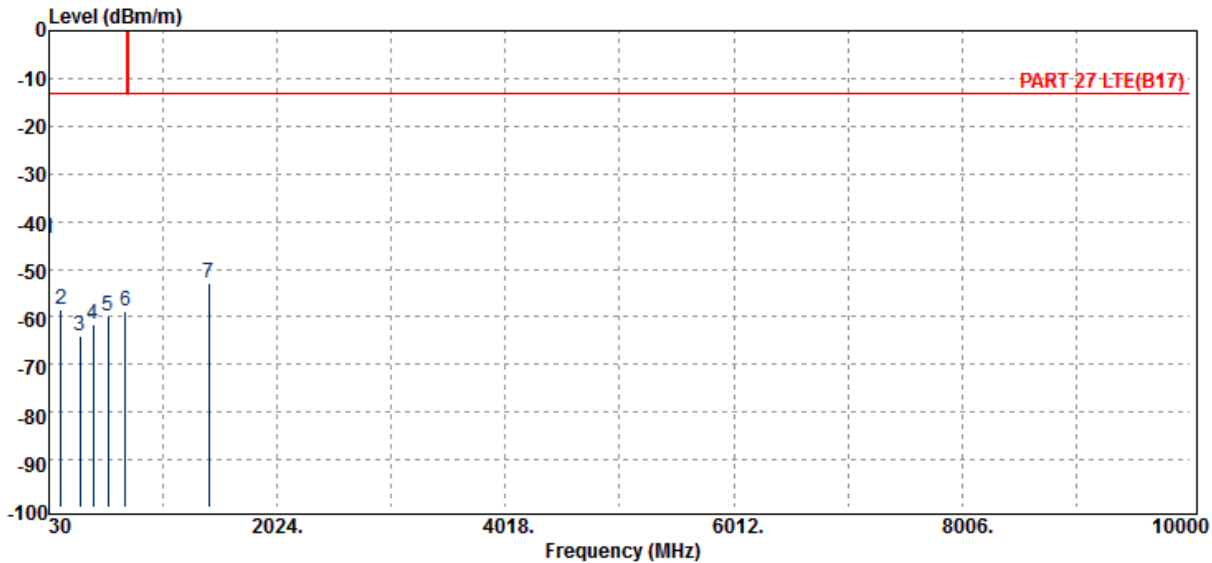
Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	S	-48.61	-33.45	-14.58	-0.58	-13.00	-35.61
219.15	S	-61.82	-63.60	3.35	-1.57	-13.00	-48.82
299.66	S	-64.53	-66.31	3.61	-1.82	-13.00	-51.53
408.30	S	-64.36	-65.90	3.68	-2.14	-13.00	-51.36
542.16	S	-63.84	-65.96	3.99	-1.87	-13.00	-50.84
694.45	S	-61.58	-62.66	3.69	-2.61	-13.00	-48.58
1420.00	H	-54.17	-58.43	8.28	-4.01	-13.00	-41.17

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Operation Band	:LTE B17	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:713.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



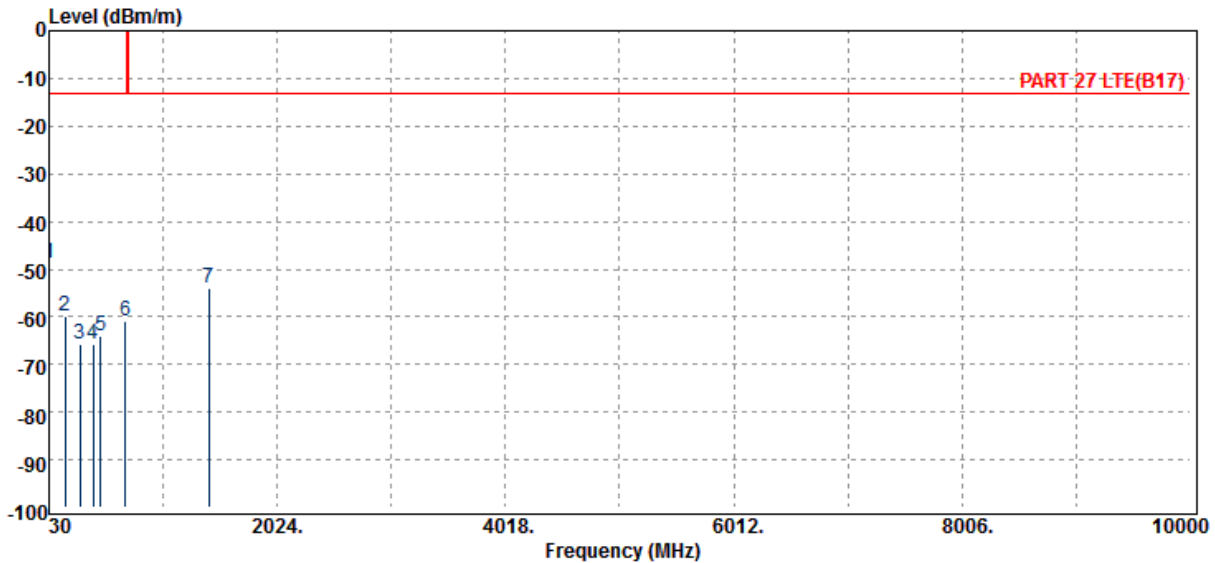
Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
31.94	S	-43.47	-28.80	-14.08	-0.59	-13.00	-30.47
134.76	S	-58.34	-54.98	-2.12	-1.23	-13.00	-45.34
298.69	S	-63.99	-65.77	3.59	-1.82	-13.00	-50.99
413.15	S	-61.56	-63.10	3.67	-2.13	-13.00	-48.56
546.04	S	-59.87	-62.05	3.99	-1.81	-13.00	-46.87
697.36	S	-58.87	-60.16	3.68	-2.38	-13.00	-45.87
1427.00	H	-52.92	-57.20	8.30	-4.03	-13.00	-39.92

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Operation Band	:LTE B17	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:713.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



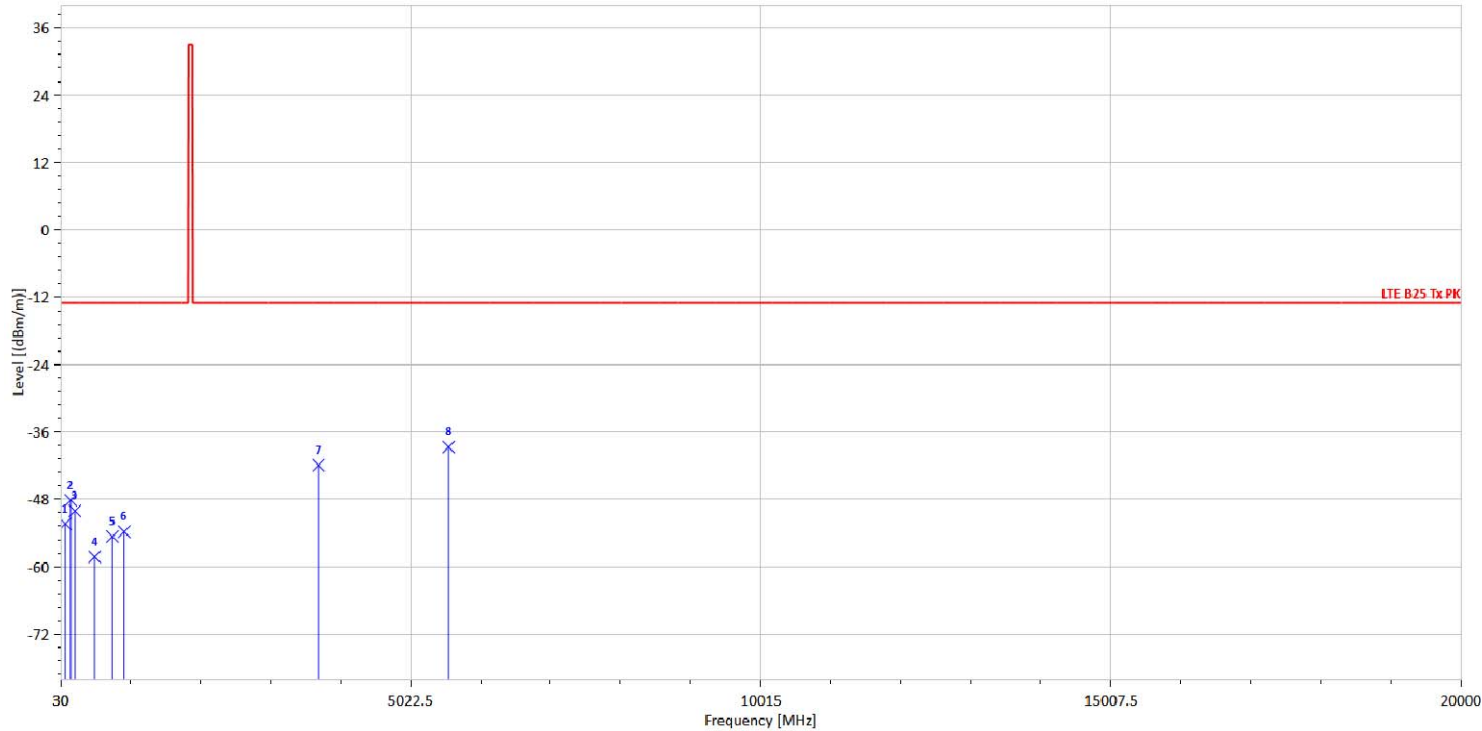
Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
31.94	S	-48.90	-34.22	-14.08	-0.59	-13.00	-35.90
170.65	S	-59.86	-58.01	-0.51	-1.33	-13.00	-46.86
298.69	S	-65.87	-67.64	3.59	-1.82	-13.00	-52.87
415.09	S	-65.70	-67.23	3.66	-2.12	-13.00	-52.70
478.14	S	-64.02	-65.78	3.83	-2.08	-13.00	-51.02
696.39	S	-60.93	-62.15	3.69	-2.46	-13.00	-47.93
1427.00	H	-54.15	-58.42	8.30	-4.03	-13.00	-41.15

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Operation Mode :	LTEB25 10M QPSK 1.0	Test Date :	2017/11/17
Fundamental Frequency :	1855 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP/EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level	Gain	Loss	@3m	dB
			dBm	dBd/dBi	dB	dBm/m	
97.90	S	-52.36	-49.95	-1.04	-1.36	-13	-39.36
175.50	S	-48.16	-51.22	4.92	-1.86	-13	-35.16
235.64	S	-50.07	-53.71	5.80	-2.17	-13	-37.07
515.97	S	-58.24	-61.44	6.50	-3.29	-13	-45.24
770.11	S	-54.64	-58.36	7.74	-4.01	-13	-41.64
936.95	S	-53.77	-57.23	7.95	-4.49	-13	-40.77
3710.00	H	-41.93	-45.45	12.43	-8.91	-13	-28.93
5565.00	H	-38.68	-41.35	13.01	-10.34	-13	-25.68

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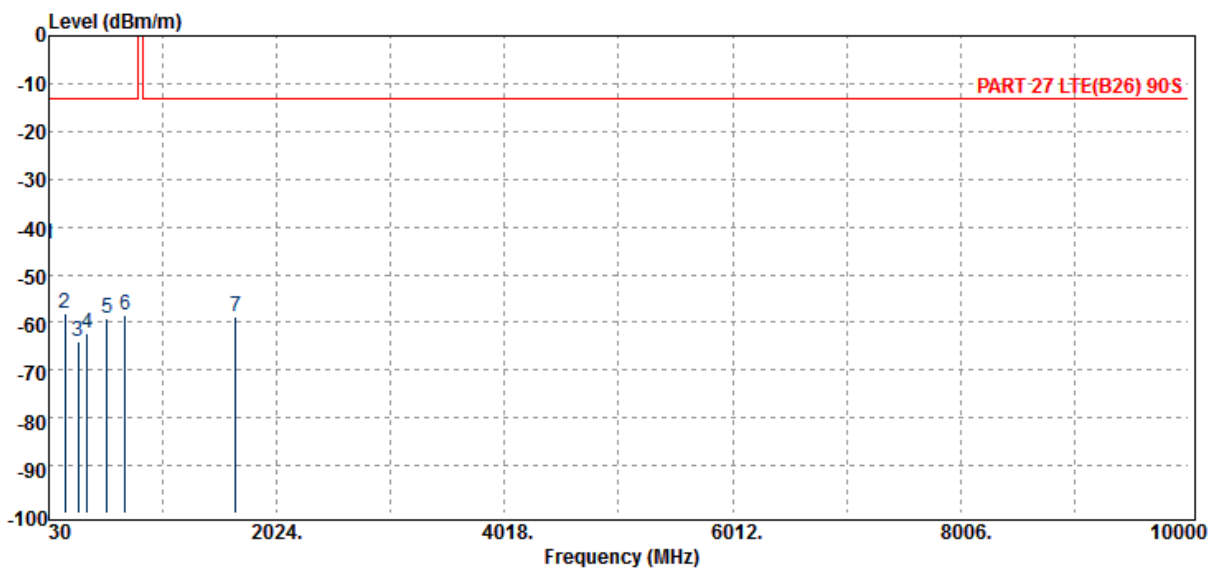
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Radiated Spurious Emission Measurement Result: LTE-Band 26 (The Worst Case)

Operation Band :LTE B26 Temp./Humi. :24.1 deg_C / 65 RH
 Fundamental Frequency :831.5 MHz Engineer :Tin
 Operation Mode :Tx CH LOW
 EUT Pol. :E2 Plane Measurement Antenna :VERTICAL Pol.



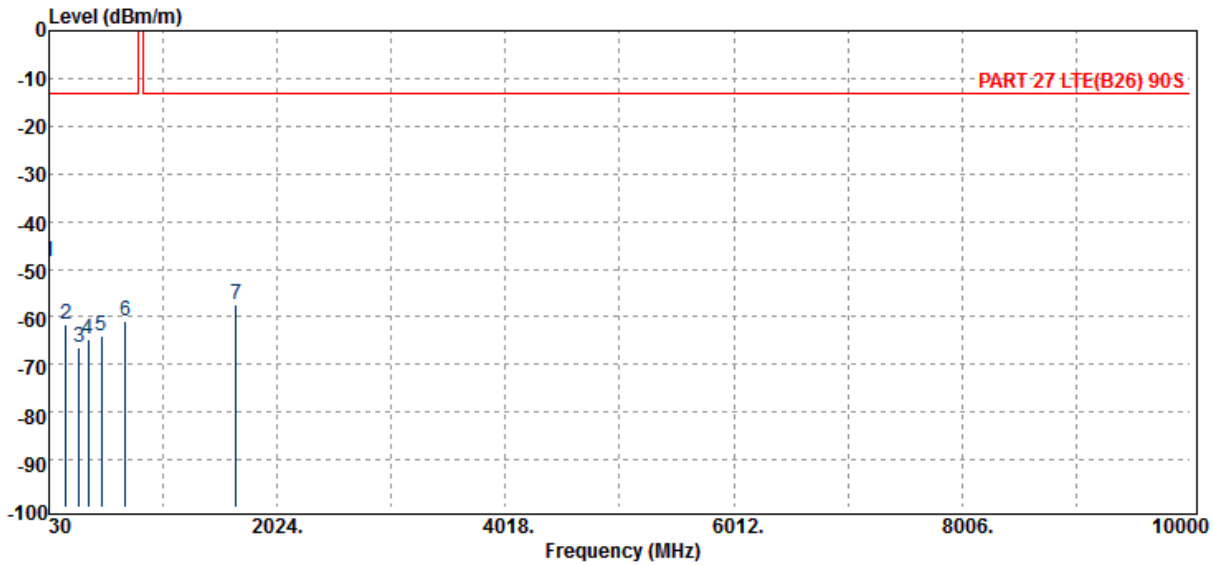
Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
31.94	S	-43.51	-28.84	-14.08	-0.59	-13.00	-30.51
170.65	S	-58.02	-56.17	-0.51	-1.33	-13.00	-45.02
287.05	S	-63.93	-65.58	3.42	-1.77	-13.00	-50.93
366.59	S	-62.26	-64.00	3.81	-2.07	-13.00	-49.26
537.31	S	-59.30	-61.23	4.00	-2.07	-13.00	-46.30
694.45	S	-58.35	-59.43	3.69	-2.61	-13.00	-45.35
1663.00	H	-58.65	-61.30	7.02	-4.38	-13.00	-45.65

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Operation Band :LTE B26 Temp./Humi. :24.1 deg_C / 65 RH
 Fundamental Frequency :831.5 MHz Engineer :Tin
 Operation Mode :Tx CH LOW
 EUT Pol. :E2 Plane Measurement Antenna Pol.:HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	S	-48.47	-33.31	-14.58	-0.58	-13.00	-35.47
175.50	S	-61.42	-60.33	0.27	-1.36	-13.00	-48.42
296.75	S	-66.44	-68.18	3.55	-1.81	-13.00	-53.44
372.41	S	-64.84	-66.58	3.79	-2.05	-13.00	-51.84
487.84	S	-64.05	-66.10	3.93	-1.89	-13.00	-51.05
694.45	S	-60.76	-61.84	3.69	-2.61	-13.00	-47.76
1663.00	H	-57.58	-60.23	7.02	-4.38	-13.00	-44.58

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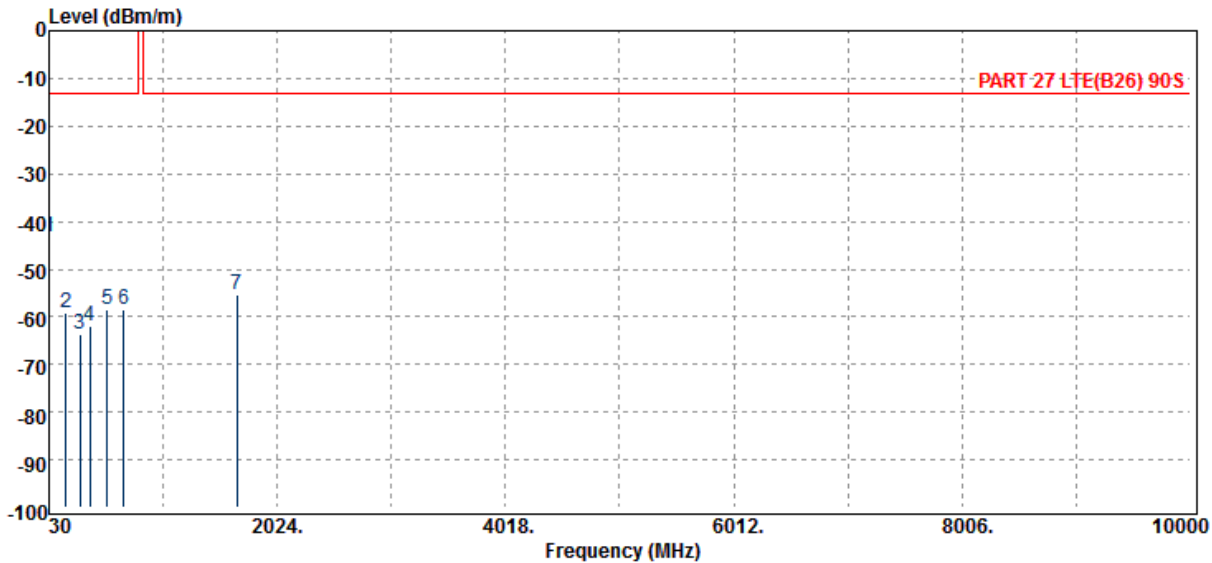
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Operation Band	:LTE B26	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:836.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



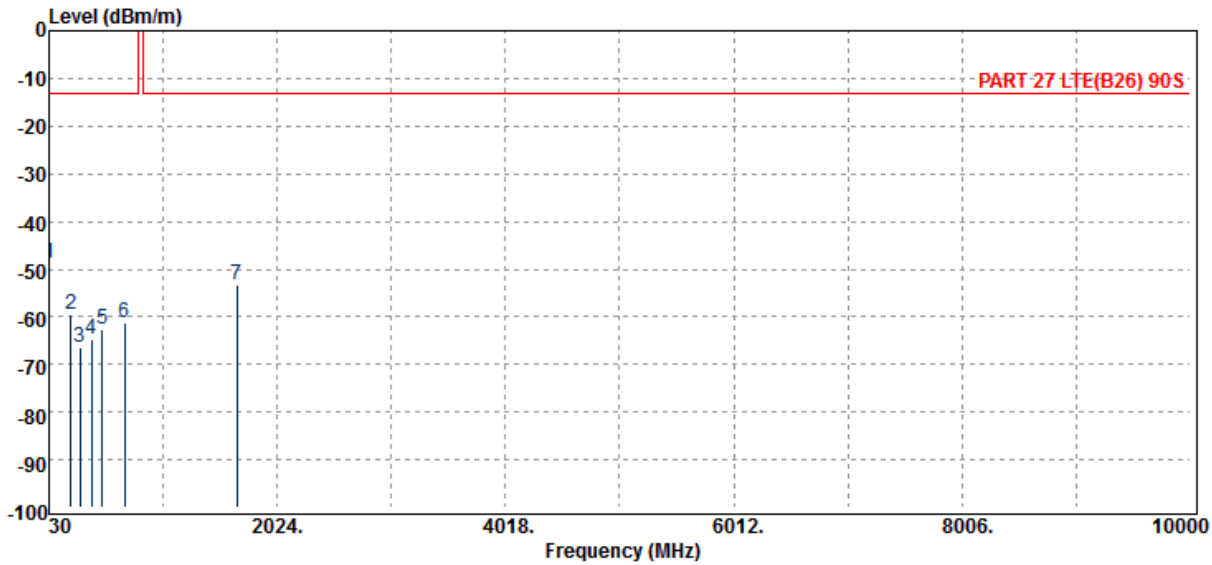
Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
31.94	S	-43.13	-28.45	-14.08	-0.59	-13.00	-30.13
177.44	S	-59.09	-58.30	0.58	-1.37	-13.00	-46.09
298.69	S	-63.68	-65.45	3.59	-1.82	-13.00	-50.68
386.96	S	-61.79	-63.52	3.75	-2.02	-13.00	-48.79
542.16	S	-58.53	-60.66	3.99	-1.87	-13.00	-45.53
684.75	S	-58.33	-58.73	3.72	-3.32	-13.00	-45.33
1673.00	H	-55.37	-58.04	7.06	-4.39	-13.00	-42.37

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Operation Band	:LTE B26	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:836.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID	Measurement Antenna	:HORIZONTAL
EUT Pol.	:E2 Plane	Pol.	



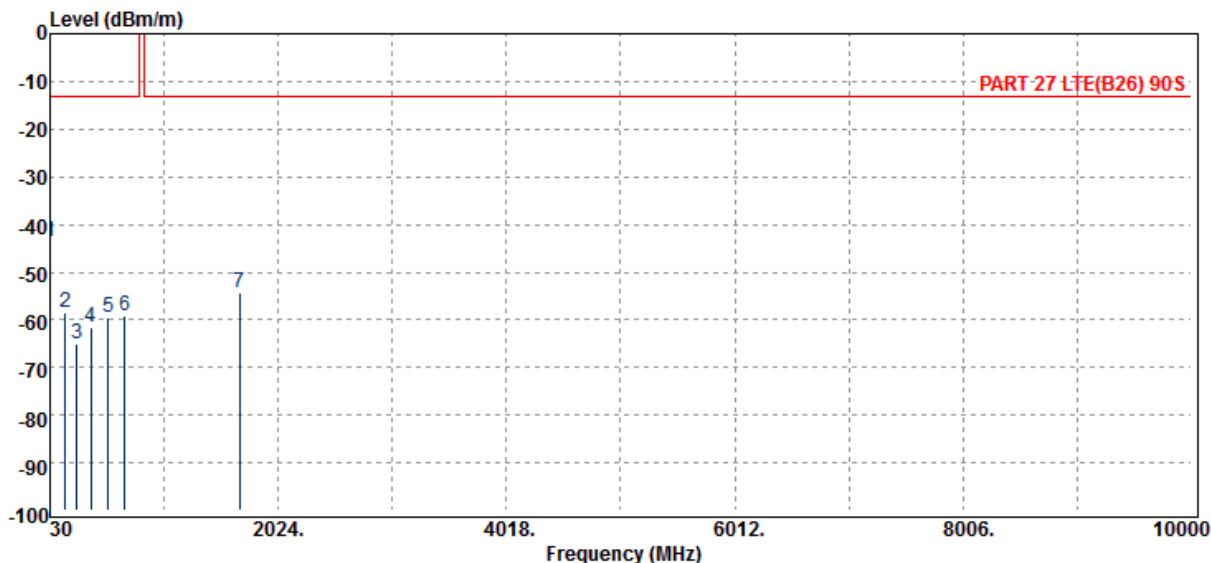
Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
31.94	S	-48.94	-34.27	-14.08	-0.59	-13.00	-35.94
219.15	S	-59.67	-61.46	3.35	-1.57	-13.00	-46.67
299.66	S	-66.39	-68.18	3.61	-1.82	-13.00	-53.39
403.45	S	-64.85	-66.41	3.70	-2.14	-13.00	-51.85
493.66	S	-62.72	-64.67	3.99	-2.04	-13.00	-49.72
692.51	S	-61.30	-62.24	3.70	-2.76	-13.00	-48.30
1673.00	H	-53.38	-56.04	7.06	-4.39	-13.00	-40.38

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Operation Band :LTE B26 Temp./Humi. :24.1 deg_C / 65 RH
 Fundamental Frequency :841.5 MHz Engineer :Tin
 Operation Mode :Tx CH HIGH
 EUT Pol. :E2 Plane Measurement Antenna Pol.:VERTICAL



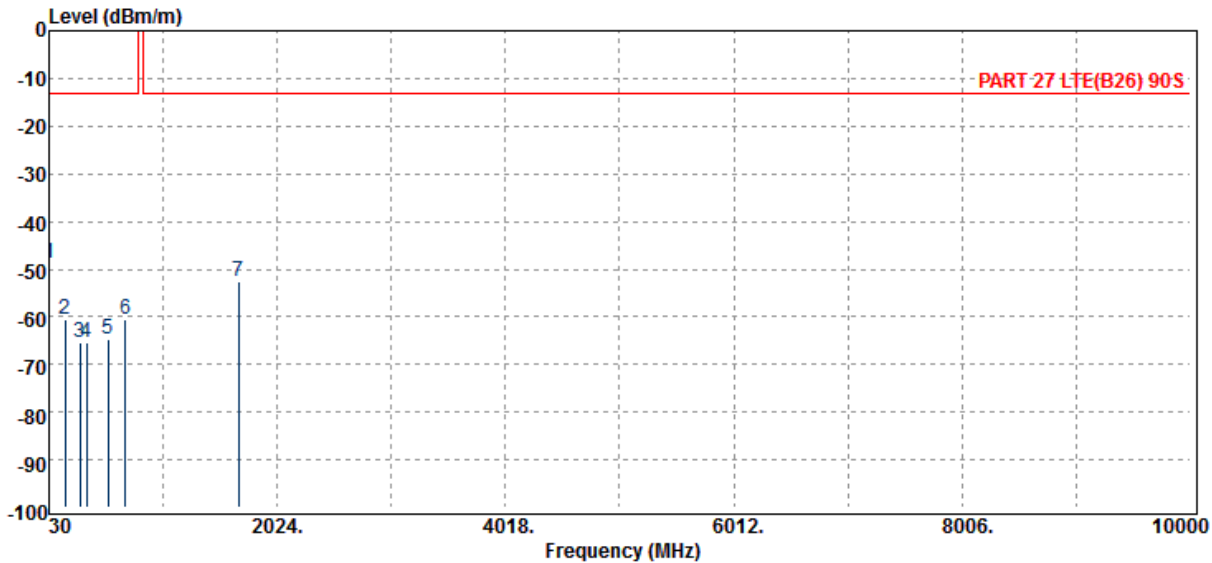
Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
31.94	S	-43.76	-29.08	-14.08	-0.59	-13.00	-30.76
165.80	S	-58.58	-56.40	-0.88	-1.31	-13.00	-45.58
265.71	S	-65.19	-67.06	3.57	-1.71	-13.00	-52.19
385.99	S	-61.54	-63.28	3.75	-2.01	-13.00	-48.54
542.16	S	-59.48	-61.60	3.99	-1.87	-13.00	-46.48
679.90	S	-59.09	-59.83	3.74	-2.99	-13.00	-46.09
1683.00	H	-54.15	-56.83	7.09	-4.41	-13.00	-41.15

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Operation Band :LTE B26 Temp./Humi. :24.1 deg_C / 65 RH
 Fundamental Frequency :841.5 MHz Engineer :Tin
 Operation Mode :Tx CH HIGH
 EUT Pol. :E2 Plane Measurement Antenna Pol.:HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	S	-48.72	-33.56	-14.58	-0.58	-13.00	-35.72
170.65	S	-60.59	-58.74	-0.51	-1.33	-13.00	-47.59
299.66	S	-65.26	-67.04	3.61	-1.82	-13.00	-52.26
359.80	S	-65.39	-67.16	3.83	-2.06	-13.00	-52.39
547.01	S	-64.62	-66.74	3.98	-1.86	-13.00	-51.62
696.39	S	-60.54	-61.77	3.69	-2.46	-13.00	-47.54
1683.00	H	-52.59	-55.27	7.09	-4.41	-13.00	-39.59

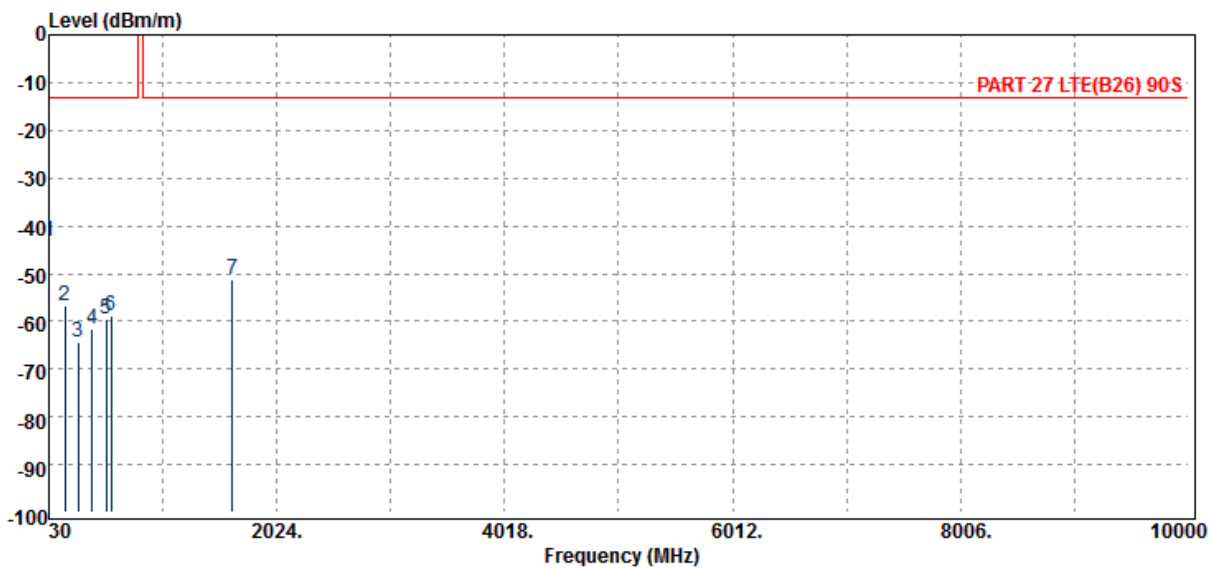
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Radiated Spurious Emission Measurement Result: LTE-Band 26 for Part 90S (The Worst Case)

Operation Band :LTE B26 Temp./Humi. :24.1 deg_C / 65 RH
 Fundamental Frequency :816.5 MHz Engineer :Tin
 Operation Mode :Tx CH LOW
 EUT Pol. :E2 Plane Measurement Pol. Antenna :VERTICAL



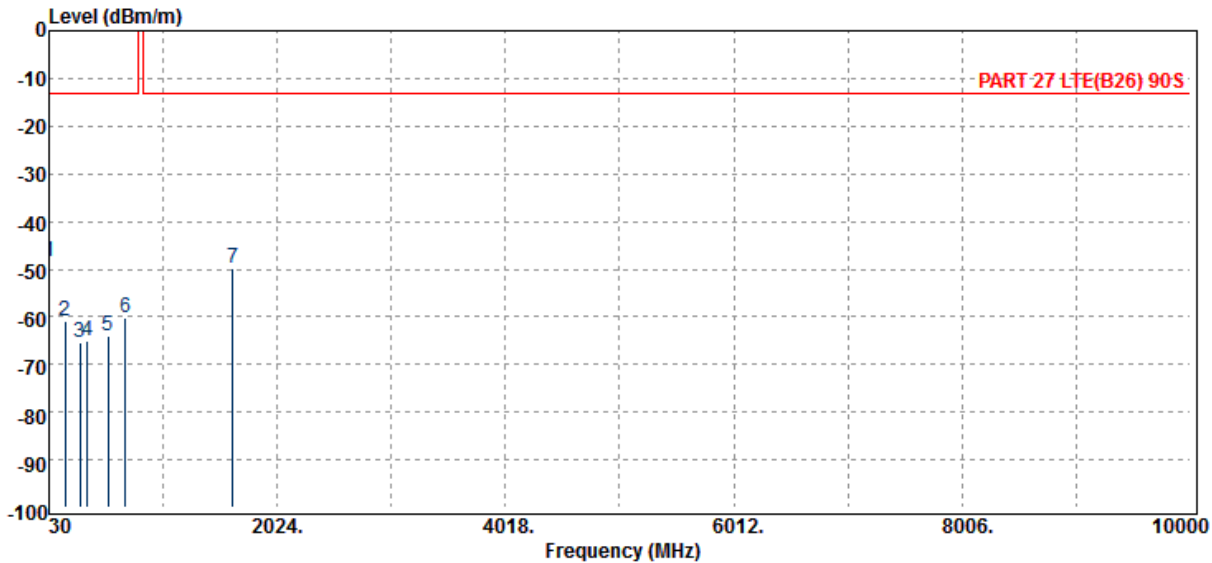
Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
31.94	S	-43.24	-28.57	-14.08	-0.59	-13.00	-30.24
172.59	S	-56.59	-55.05	-0.20	-1.34	-13.00	-43.59
285.11	S	-64.47	-66.13	3.42	-1.76	-13.00	-51.47
411.21	S	-61.66	-63.20	3.67	-2.13	-13.00	-48.66
531.49	S	-59.55	-61.25	4.01	-2.31	-13.00	-46.55
573.20	S	-58.86	-60.04	3.77	-2.59	-13.00	-45.86
1633.00	H	-51.04	-53.64	6.92	-4.33	-13.00	-38.04

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Operation Band	:LTE B26	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:816.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



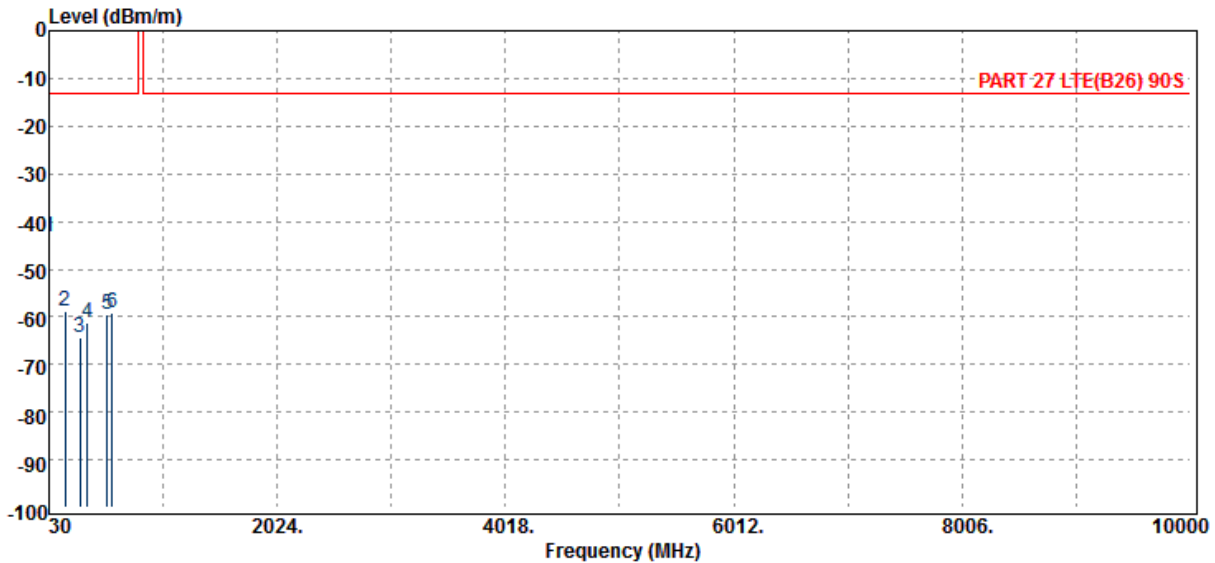
Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	S	-48.50	-33.34	-14.58	-0.58	-13.00	-35.50
172.59	S	-60.74	-59.20	-0.20	-1.34	-13.00	-47.74
299.66	S	-65.49	-67.28	3.61	-1.82	-13.00	-52.49
367.56	S	-65.17	-66.90	3.80	-2.06	-13.00	-52.17
548.95	S	-64.14	-66.15	3.98	-1.97	-13.00	-51.14
699.30	S	-60.08	-61.53	3.68	-2.24	-13.00	-47.08
1633.00	H	-49.66	-52.25	6.92	-4.33	-13.00	-36.66

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Operation Band	:LTE B26	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:819 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



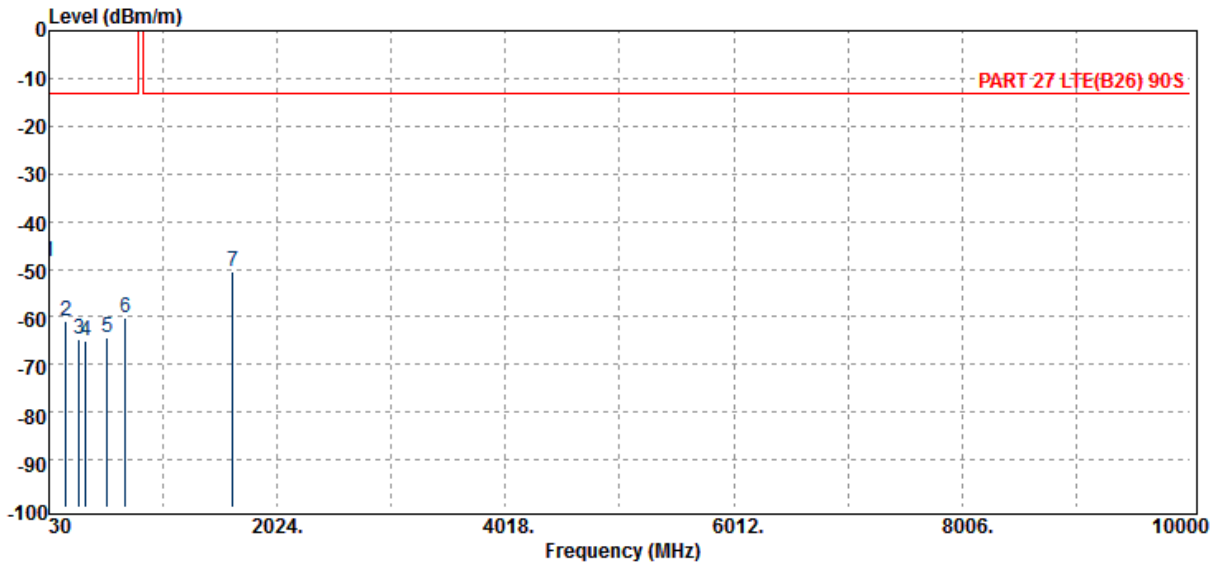
Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	S	-43.18	-28.02	-14.58	-0.58	-13.00	-30.18
168.71	S	-58.72	-56.70	-0.70	-1.33	-13.00	-45.72
299.66	S	-64.42	-66.20	3.61	-1.82	-13.00	-51.42
364.65	S	-61.39	-63.13	3.81	-2.07	-13.00	-48.39
537.31	S	-59.47	-61.40	4.00	-2.07	-13.00	-46.47
579.99	S	-59.28	-60.60	3.71	-2.39	-13.00	-46.28
1638.00	H	-494.71	-497.32	6.94	-4.34	-13.00	-481.71

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Operation Band	:LTE B26	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:819 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



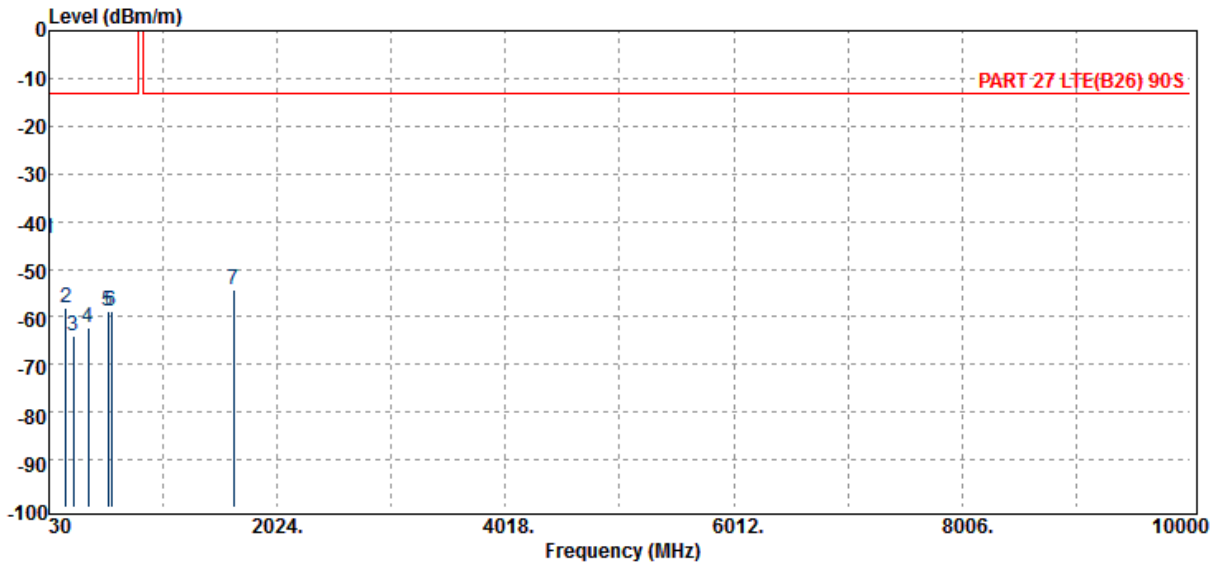
Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	S	-48.55	-33.39	-14.58	-0.58	-13.00	-35.55
177.44	S	-61.07	-60.28	0.58	-1.37	-13.00	-48.07
296.75	S	-64.73	-66.47	3.55	-1.81	-13.00	-51.73
353.01	S	-65.19	-67.00	3.85	-2.03	-13.00	-52.19
537.31	S	-64.19	-66.13	4.00	-2.07	-13.00	-51.19
699.30	S	-60.36	-61.80	3.68	-2.24	-13.00	-47.36
1638.00	H	-50.38	-52.98	6.94	-4.34	-13.00	-37.38

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Operation Band :LTE B26 Temp./Humi. :24.1 deg_C / 65 RH
 Fundamental Frequency :821.5 MHz Engineer :Tin
 Operation Mode :Tx CH HIGH
 EUT Pol. :E2 Plane Measurement Antenna Pol.:VERTICAL



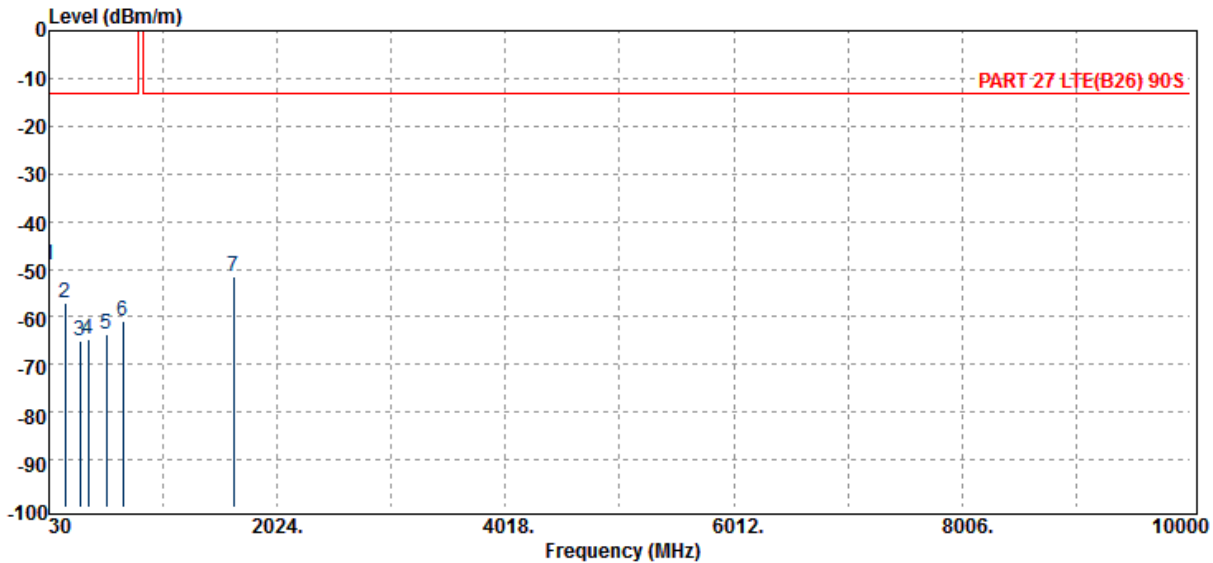
Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
31.94	S	-43.48	-28.80	-14.08	-0.59	-13.00	-30.48
175.50	S	-58.20	-57.12	0.27	-1.36	-13.00	-45.20
241.46	S	-63.86	-65.67	3.49	-1.68	-13.00	-50.86
371.44	S	-62.20	-63.95	3.79	-2.05	-13.00	-49.20
544.10	S	-58.94	-61.14	3.99	-1.79	-13.00	-45.94
578.05	S	-58.77	-60.04	3.73	-2.45	-13.00	-45.77
1643.00	H	-54.42	-57.04	6.96	-4.34	-13.00	-41.42

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Operation Band	:LTE B26	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:821.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



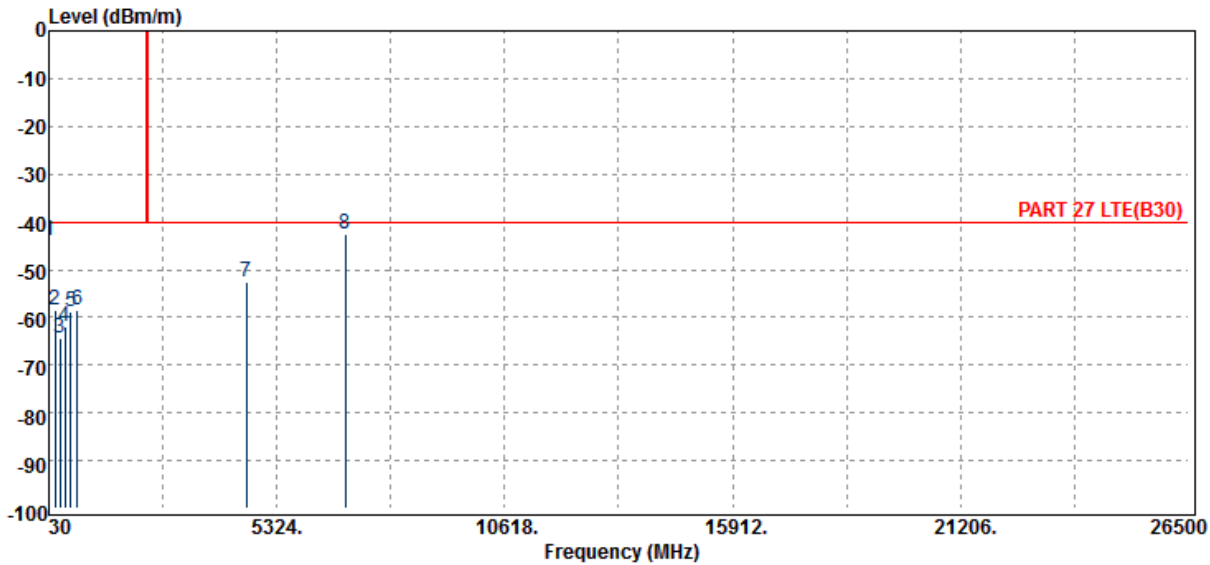
Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	S	-49.03	-33.87	-14.58	-0.58	-13.00	-36.03
168.71	S	-57.25	-55.23	-0.70	-1.33	-13.00	-44.25
299.66	S	-64.97	-66.75	3.61	-1.82	-13.00	-51.97
371.44	S	-64.71	-66.45	3.79	-2.05	-13.00	-51.71
531.49	S	-63.58	-65.27	4.01	-2.31	-13.00	-50.58
673.11	S	-60.84	-62.08	3.76	-2.52	-13.00	-47.84
1643.00	H	-51.54	-54.15	6.96	-4.34	-13.00	-38.54

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Operation Band	:LTE B30	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:2307.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



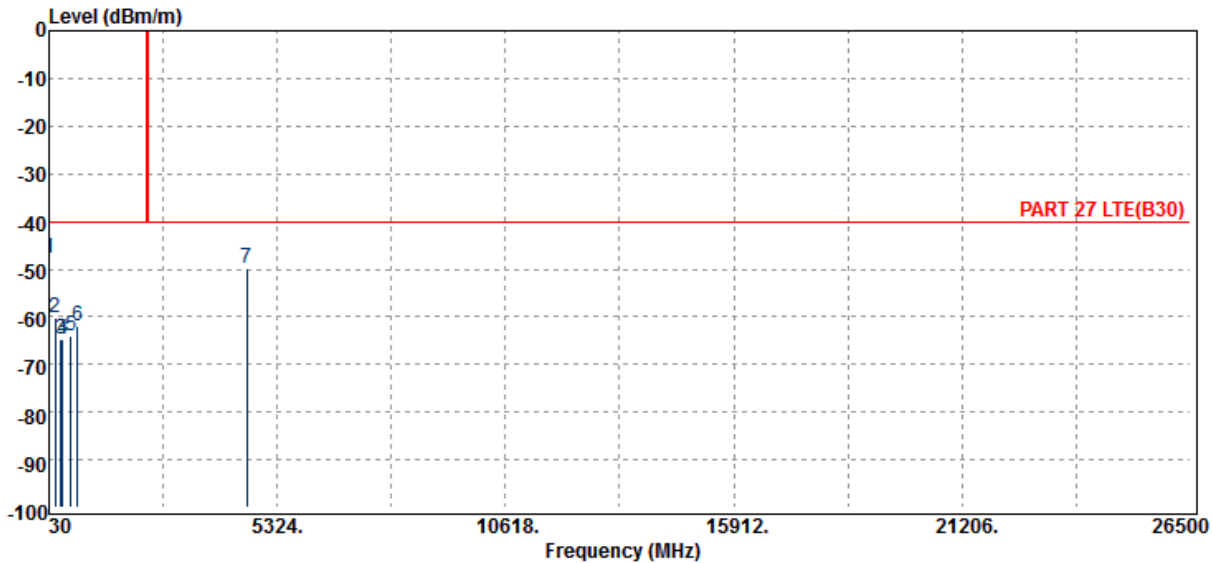
Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
31.94	S	-43.93	-29.25	-14.08	-0.59	-40.00	-3.93
165.80	S	-58.53	-56.34	-0.88	-1.31	-40.00	-18.53
296.75	S	-64.35	-66.09	3.55	-1.81	-40.00	-24.35
411.21	S	-62.06	-63.60	3.67	-2.13	-40.00	-22.06
539.25	S	-58.96	-60.97	4.00	-1.99	-40.00	-18.96
692.51	S	-58.49	-59.43	3.70	-2.76	-40.00	-18.49
4615.00	H	-52.67	-57.60	12.65	-7.72	-40.00	-12.67
6922.50	H	-42.67	-44.18	11.12	-9.60	-40.00	-2.67

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Operation Band	:LTE B30	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:2307.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



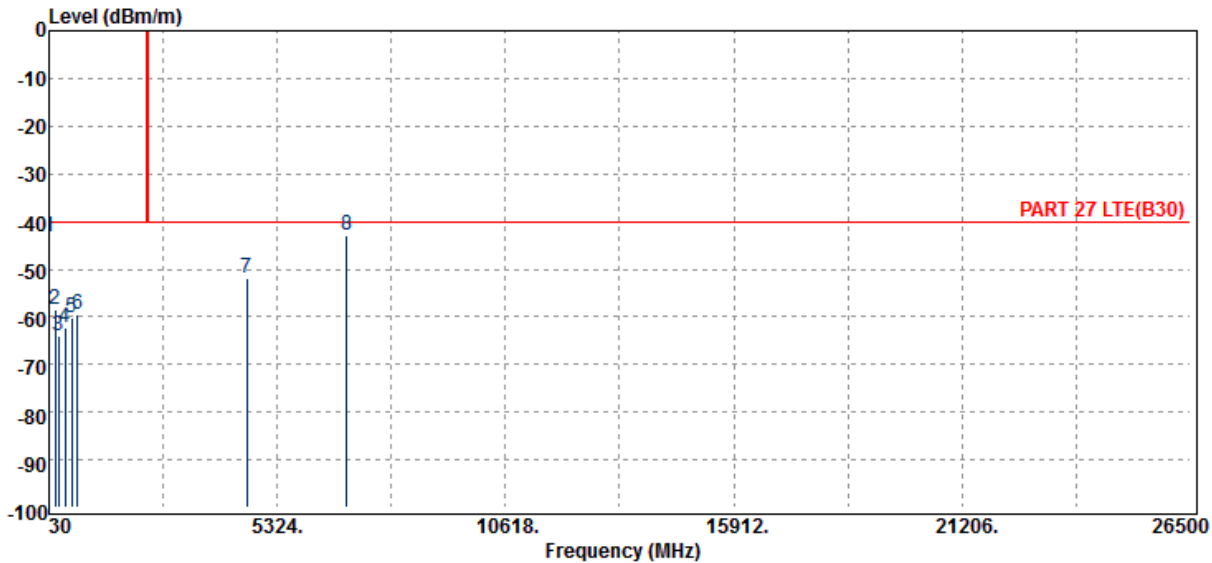
Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	S	-47.89	-32.73	-14.58	-0.58	-40.00	-7.89
170.65	S	-60.32	-58.48	-0.51	-1.33	-40.00	-20.32
299.66	S	-64.64	-66.42	3.61	-1.82	-40.00	-24.64
343.31	S	-64.68	-66.51	3.82	-2.00	-40.00	-24.68
546.04	S	-64.00	-66.18	3.99	-1.81	-40.00	-24.00
686.69	S	-61.96	-62.47	3.72	-3.21	-40.00	-21.96
4615.00	H	-49.75	-54.68	12.65	-7.72	-40.00	-9.75

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Operation Band	:LTE B30	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:2310 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID	Measurement Antenna	:VERTICAL
EUT Pol.	:E2 Plane	Pol.	



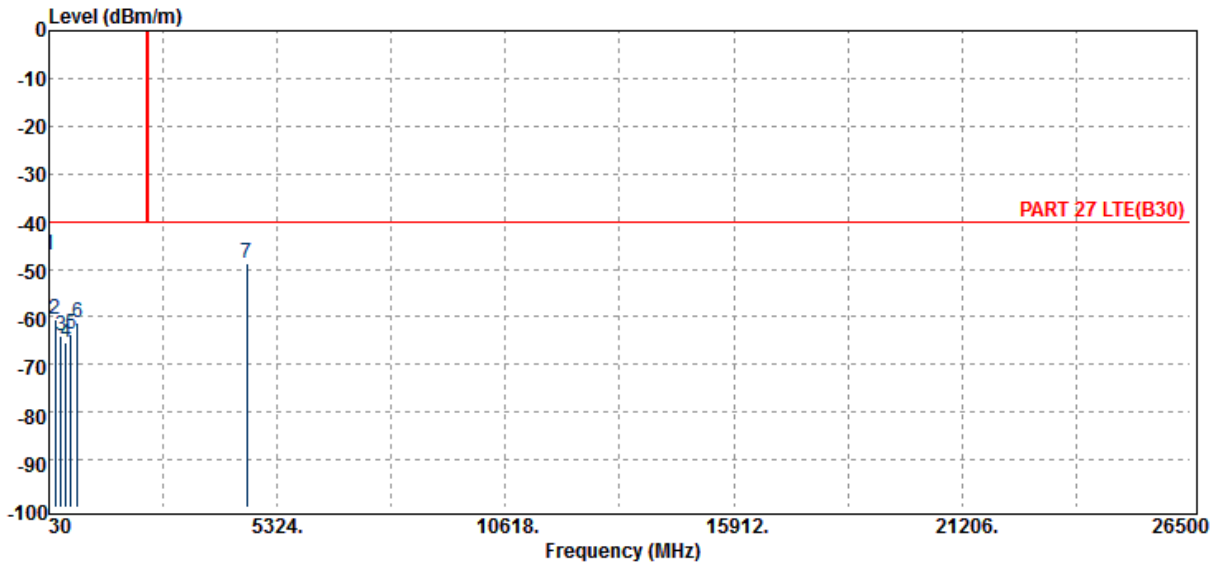
Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
31.94	S	-43.29	-28.61	-14.08	-0.59	-40.00	-3.29
167.74	S	-58.56	-56.49	-0.76	-1.32	-40.00	-18.56
241.46	S	-64.09	-65.91	3.49	-1.68	-40.00	-24.09
411.21	S	-62.19	-63.73	3.67	-2.13	-40.00	-22.19
549.92	S	-60.13	-62.09	3.98	-2.02	-40.00	-20.13
687.66	S	-59.43	-60.01	3.71	-3.13	-40.00	-19.43
4620.00	H	-51.95	-56.88	12.65	-7.72	-40.00	-11.95
6930.00	H	-42.74	-44.20	11.11	-9.65	-40.00	-2.74

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Operation Band	:LTE B30	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:2310 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



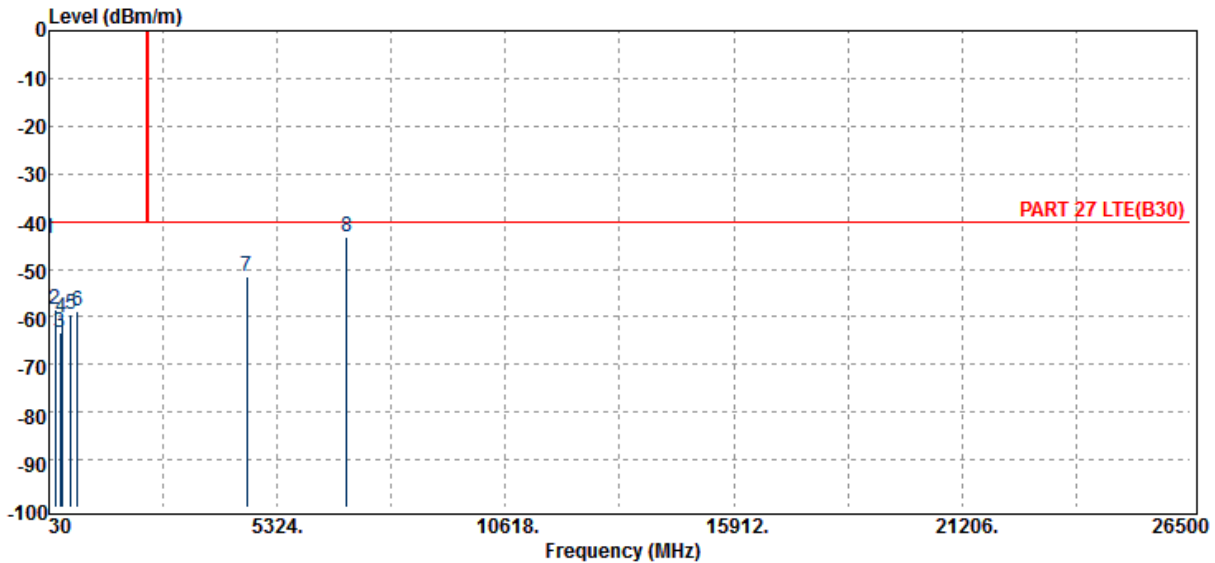
Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	S	-47.10	-31.94	-14.58	-0.58	-40.00	-7.10
177.44	S	-60.61	-59.82	0.58	-1.37	-40.00	-20.61
298.69	S	-63.86	-65.63	3.59	-1.82	-40.00	-23.86
413.15	S	-65.52	-67.06	3.67	-2.13	-40.00	-25.52
536.34	S	-63.53	-65.42	4.00	-2.11	-40.00	-23.53
696.39	S	-61.17	-62.40	3.69	-2.46	-40.00	-21.17
4620.00	H	-48.75	-53.68	12.65	-7.72	-40.00	-8.75

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Operation Band :LTE B30 Temp./Humi. :24.1 deg_C / 65 RH
 Fundamental Frequency :2312.5 MHz Engineer :Tin
 Operation Mode :Tx CH HIGH
 EUT Pol. :E2 Plane Measurement Antenna Pol.:VERTICAL



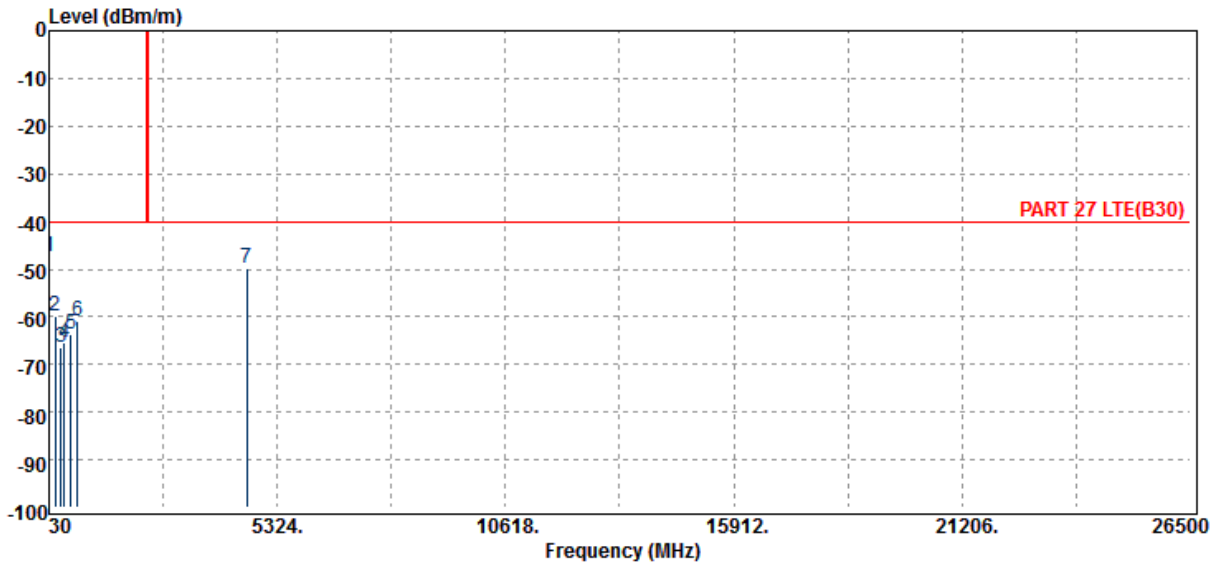
Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
31.94	S	-43.76	-29.09	-14.08	-0.59	-40.00	-3.76
173.56	S	-58.37	-56.98	-0.04	-1.35	-40.00	-18.37
294.81	S	-63.29	-65.01	3.52	-1.80	-40.00	-23.29
332.64	S	-60.30	-62.15	3.78	-1.93	-40.00	-20.30
542.16	S	-59.53	-61.65	3.99	-1.87	-40.00	-19.53
684.75	S	-58.93	-59.33	3.72	-3.32	-40.00	-18.93
4625.00	H	-51.54	-56.47	12.65	-7.72	-40.00	-11.54
6937.50	H	-43.13	-44.59	11.10	-9.64	-40.00	-3.13

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Operation Band :LTE B30 Temp./Humi. :24.1 deg_C / 65 RH
 Fundamental Frequency :2312.5 MHz Engineer :Tin
 Operation Mode :Tx CH HIGH
 EUT Pol. :E2 Plane Measurement Antenna Pol.:HORIZONTAL



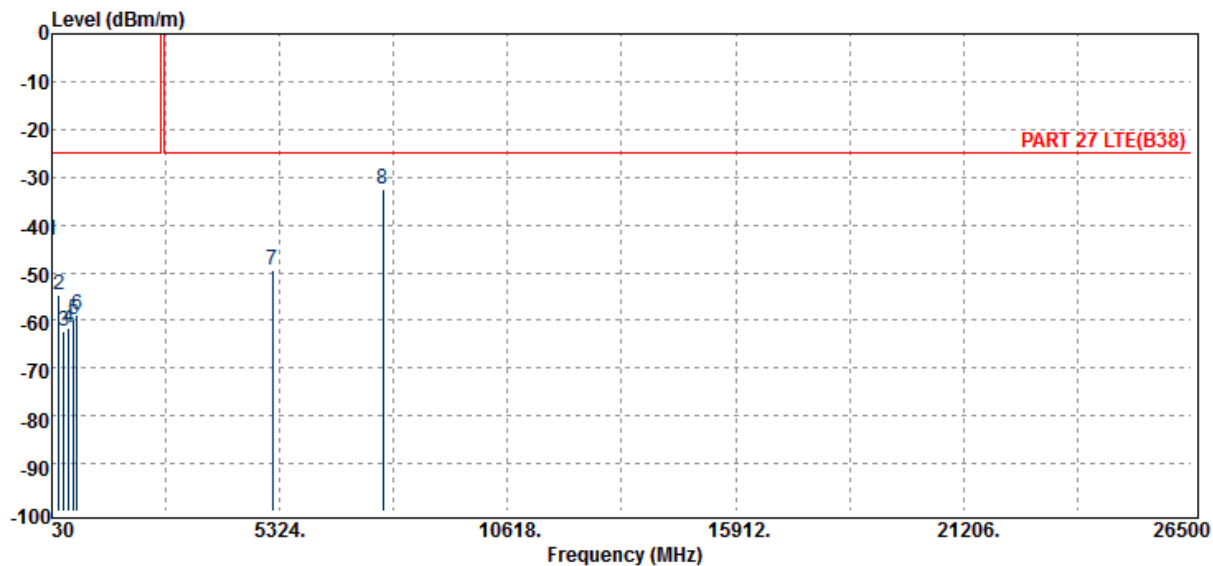
Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	S	-47.24	-32.08	-14.58	-0.58	-40.00	-7.24
170.65	S	-60.02	-58.18	-0.51	-1.33	-40.00	-20.02
299.66	S	-66.56	-68.35	3.61	-1.82	-40.00	-26.56
390.84	S	-65.39	-67.08	3.74	-2.05	-40.00	-25.39
542.16	S	-63.79	-65.91	3.99	-1.87	-40.00	-23.79
696.39	S	-60.81	-62.04	3.69	-2.46	-40.00	-20.81
4625.00	H	-49.82	-54.74	12.65	-7.72	-40.00	-9.82

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Operation Band	:LTE B38	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:2575 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



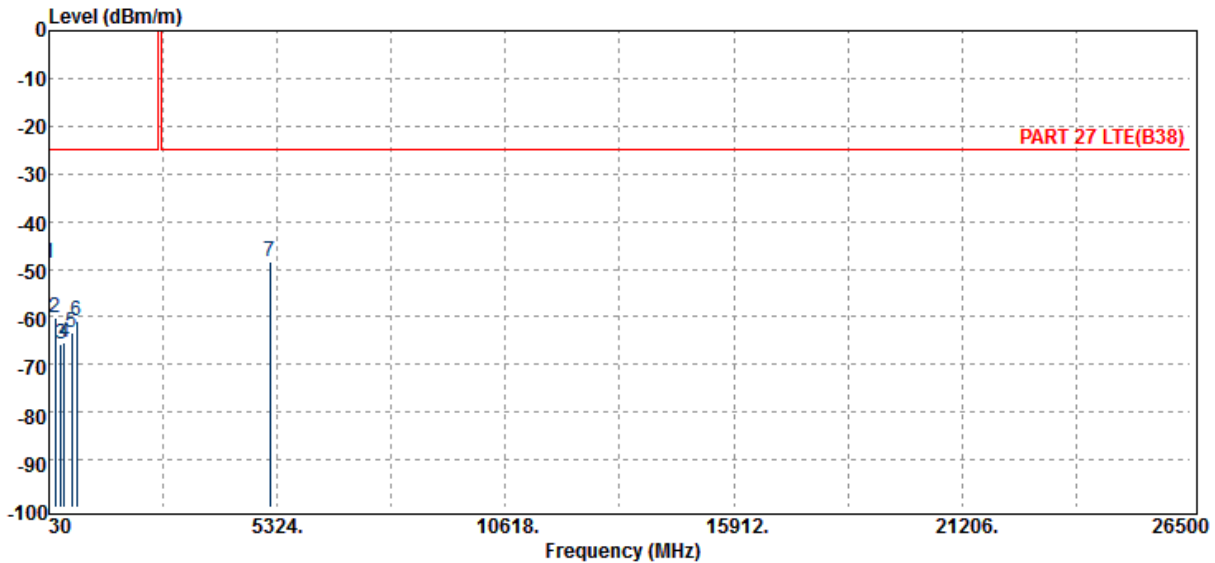
Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
31.94	S	-43.33	-28.66	-14.08	-0.59	-25.00	-18.33
192.96	S	-54.83	-56.10	2.71	-1.44	-25.00	-29.83
298.69	S	-62.36	-64.13	3.59	-1.82	-25.00	-37.36
419.94	S	-61.71	-63.24	3.64	-2.11	-25.00	-36.71
531.49	S	-59.91	-61.61	4.01	-2.31	-25.00	-34.91
605.21	S	-58.75	-60.17	3.57	-2.15	-25.00	-33.75
5150.00	H	-49.61	-54.18	12.69	-8.12	-25.00	-24.61
7725.00	H	-32.51	-32.96	10.66	-10.21	-25.00	-7.51

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Operation Band	:LTE B38	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:2575 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



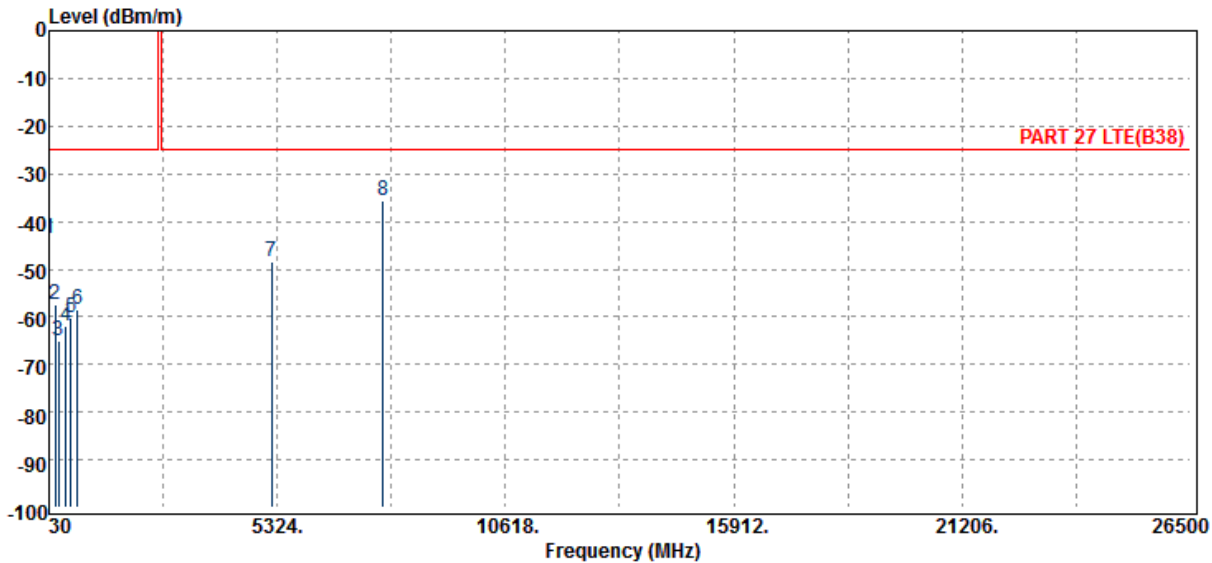
Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	S	-48.77	-33.61	-14.58	-0.58	-25.00	-23.77
168.71	S	-60.35	-58.33	-0.70	-1.33	-25.00	-35.35
299.66	S	-65.57	-67.36	3.61	-1.82	-25.00	-40.57
381.14	S	-65.25	-67.00	3.77	-2.02	-25.00	-40.25
548.95	S	-63.16	-65.17	3.98	-1.97	-25.00	-38.16
679.90	S	-60.83	-61.58	3.74	-2.99	-25.00	-35.83
5150.00	H	-48.42	-52.98	12.69	-8.12	-25.00	-23.42

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Operation Band	:LTE B38	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:2595 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID	Measurement	Antenna:VERTICAL
EUT Pol.	:E2 Plane	Pol.	



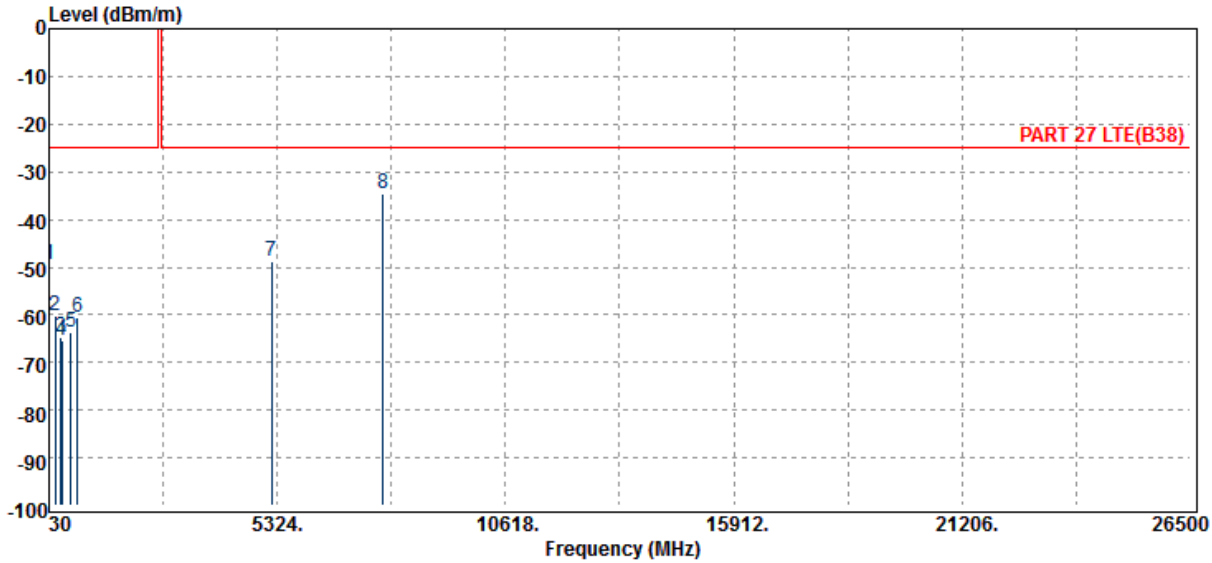
Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
31.94	S	-43.43	-28.75	-14.08	-0.59	-25.00	-18.43
168.71	S	-57.54	-55.52	-0.70	-1.33	-25.00	-32.54
243.40	S	-65.06	-66.88	3.50	-1.68	-25.00	-40.06
419.94	S	-61.95	-63.48	3.64	-2.11	-25.00	-36.95
546.04	S	-60.17	-62.34	3.99	-1.81	-25.00	-35.17
694.45	S	-58.63	-59.71	3.69	-2.61	-25.00	-33.63
5190.00	H	-48.62	-53.16	12.73	-8.19	-25.00	-23.62
7785.00	H	-35.47	-35.79	10.63	-10.30	-25.00	-10.47

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Operation Band	:LTE B38	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:2595 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID	Measurement Antenna	:HORIZONTAL
EUT Pol.	:E2 Plane	Pol.	



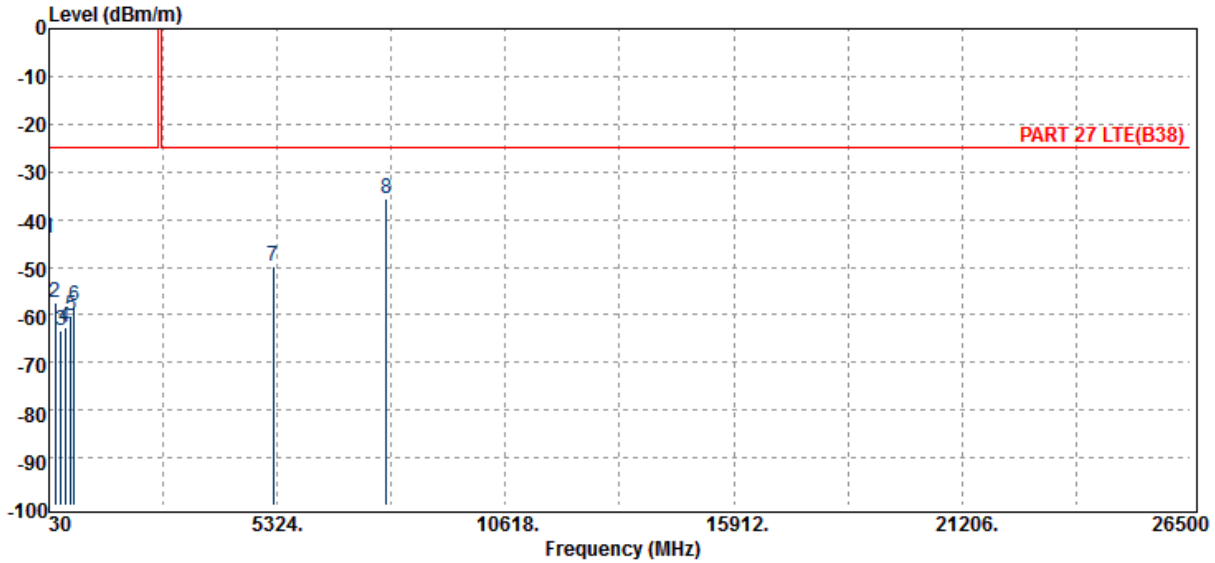
Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
31.94	S	-49.39	-34.72	-14.08	-0.59	-25.00	-24.39
168.71	S	-60.28	-58.25	-0.70	-1.33	-25.00	-35.28
298.69	S	-64.70	-66.47	3.59	-1.82	-25.00	-39.70
332.64	S	-65.57	-67.41	3.78	-1.93	-25.00	-40.57
547.01	S	-63.76	-65.88	3.98	-1.86	-25.00	-38.76
692.51	S	-60.68	-61.62	3.70	-2.76	-25.00	-35.68
5190.00	H	-48.64	-53.18	12.73	-8.19	-25.00	-23.64
7785.00	H	-34.66	-34.98	10.63	-10.30	-25.00	-9.66

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Operation Band	:LTE B38	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:2615 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH	Measurement Antenna	:VERTICAL
EUT Pol.	:E2 Plane	Pol.	



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
31.94	S	-43.80	-29.12	-14.08	-0.59	-25.00	-18.80
170.65	S	-57.45	-55.60	-0.51	-1.33	-25.00	-32.45
299.66	S	-63.33	-65.12	3.61	-1.82	-25.00	-38.33
400.54	S	-62.51	-64.11	3.71	-2.12	-25.00	-37.51
537.31	S	-60.20	-62.14	4.00	-2.07	-25.00	-35.20
605.21	S	-58.21	-59.63	3.57	-2.15	-25.00	-33.21
5230.00	H	-49.95	-54.52	12.78	-8.22	-25.00	-24.95
7845.00	H	-35.66	-36.00	10.59	-10.25	-25.00	-10.66

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台灣檢驗科技股份有限公司

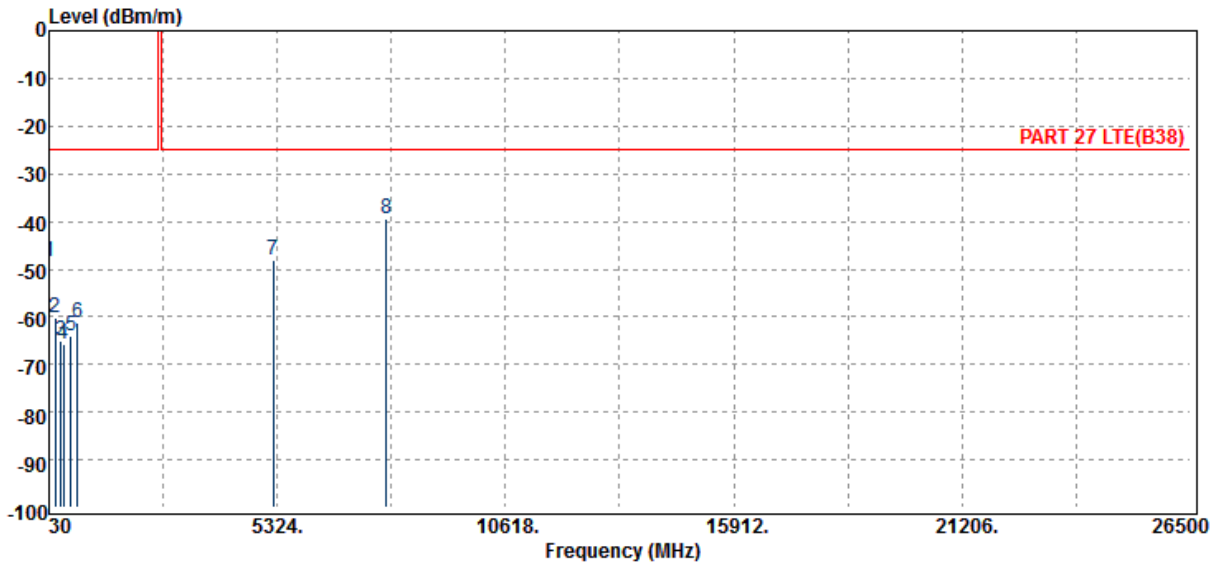
t (886-2) 2299-3279

f (886-2) 2298-0488

www.tw.sgs.com

Member of SGS Group

Operation Band :LTE B38 Temp./Humi. :24.1 deg_C / 65 RH
 Fundamental Frequency :2615 MHz Engineer :Tin
 Operation Mode :Tx CH HIGH
 EUT Pol. :E2 Plane Measurement Antenna Pol.:HORIZONTAL



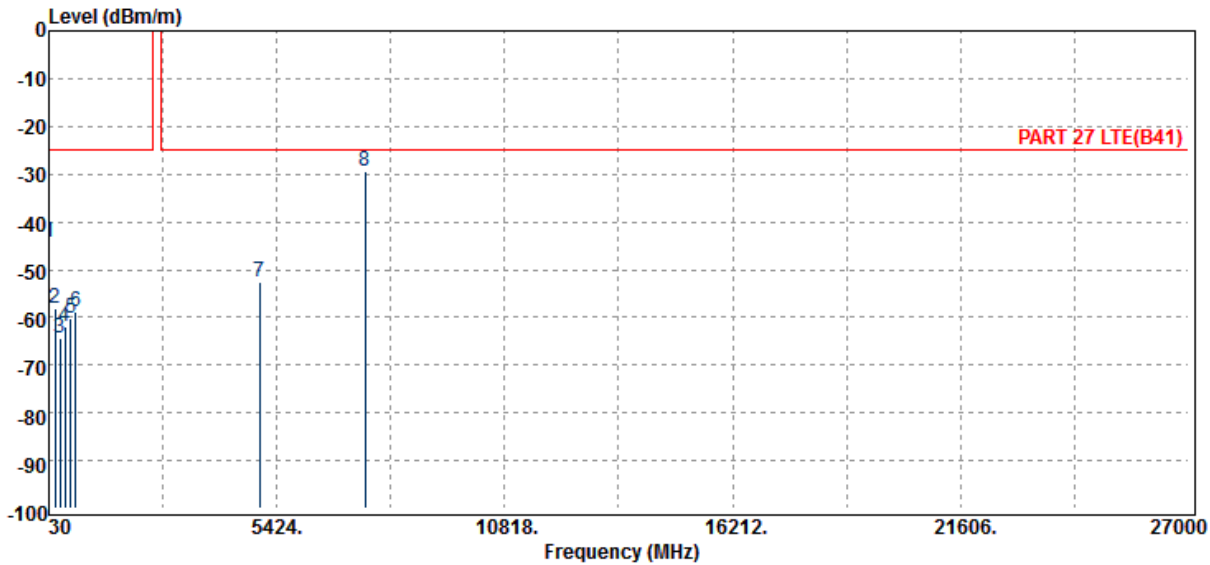
Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	S	-48.52	-33.37	-14.58	-0.58	-25.00	-23.52
172.59	S	-60.15	-58.61	-0.20	-1.34	-25.00	-35.15
299.66	S	-64.98	-66.76	3.61	-1.82	-25.00	-39.98
371.44	S	-65.74	-67.48	3.79	-2.05	-25.00	-40.74
539.25	S	-63.95	-65.96	4.00	-1.99	-25.00	-38.95
686.69	S	-61.28	-61.79	3.72	-3.21	-25.00	-36.28
5230.00	H	-48.18	-52.74	12.78	-8.22	-25.00	-23.18
7845.00	H	-39.30	-39.64	10.59	-10.25	-25.00	-14.30

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Operation Band	:LTE B41	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:2503.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW	Measurement Antenna	:VERTICAL
EUT Pol.	:E2 Plane	Pol.	



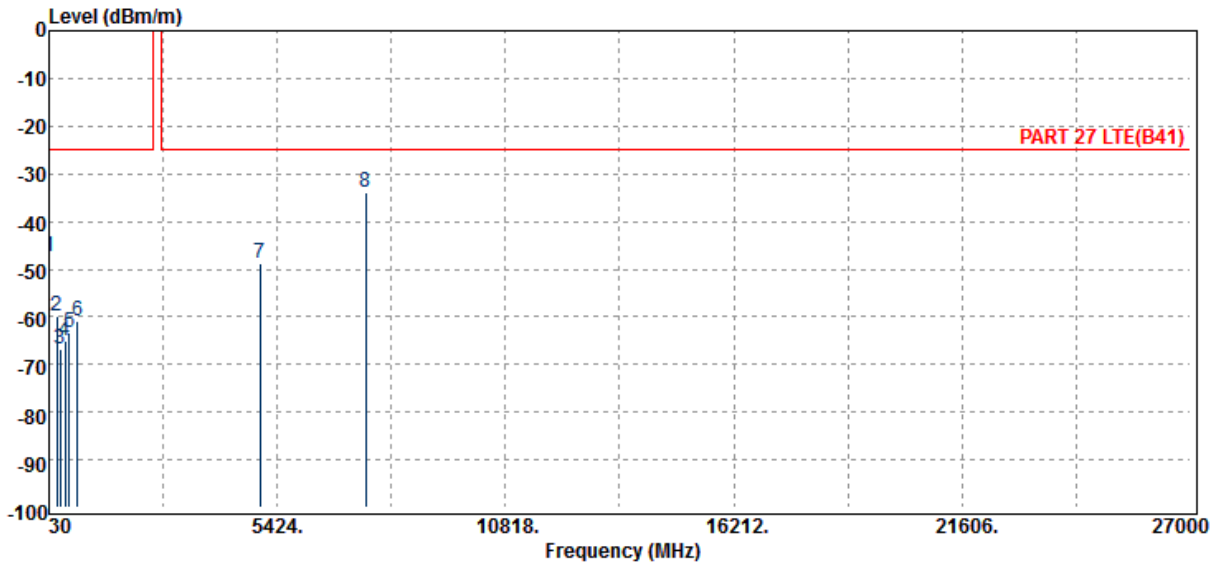
Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
31.94	S	-44.13	-29.45	-14.08	-0.59	-25.00	-19.13
170.65	S	-58.12	-56.27	-0.51	-1.33	-25.00	-33.12
299.66	S	-64.41	-66.19	3.61	-1.82	-25.00	-39.41
410.24	S	-61.83	-63.38	3.68	-2.13	-25.00	-36.83
539.25	S	-60.12	-62.12	4.00	-1.99	-25.00	-35.12
672.14	S	-58.84	-60.15	3.76	-2.45	-25.00	-33.84
5007.00	H	-52.53	-57.07	12.51	-7.98	-25.00	-27.53
7510.50	H	-29.31	-30.11	10.79	-9.99	-25.00	-4.31

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Operation Band	:LTE B41	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:2503.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW	Measurement Antenna	:HORIZONTAL
EUT Pol.	:E2 Plane	Pol.	



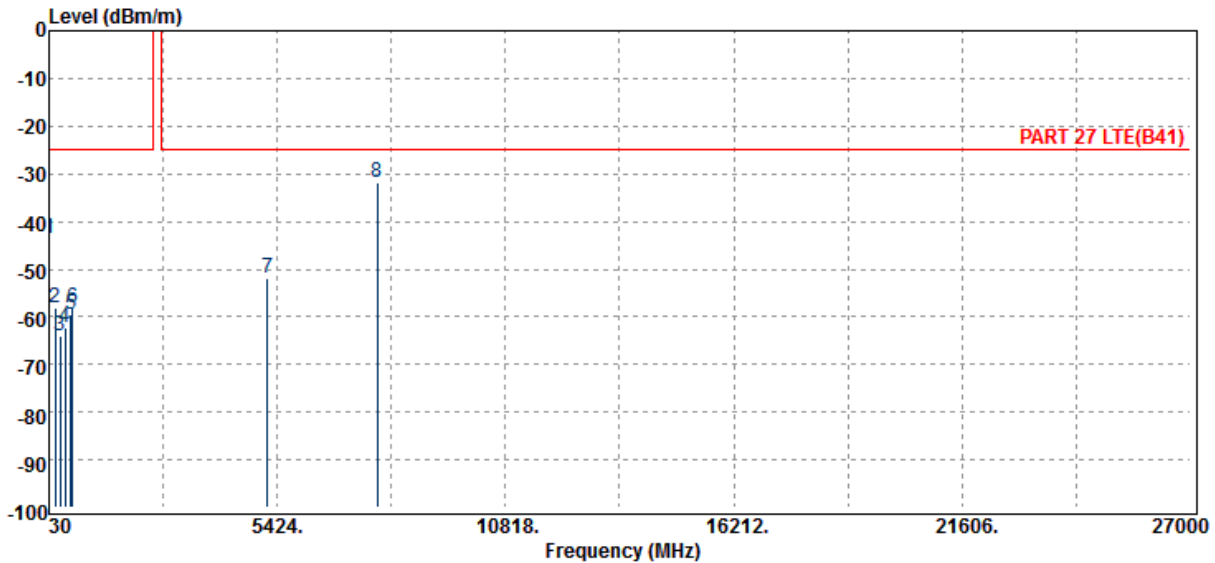
Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	S	-47.41	-32.25	-14.58	-0.58	-25.00	-22.41
212.36	S	-59.73	-61.82	3.62	-1.54	-25.00	-34.73
299.66	S	-66.91	-68.69	3.61	-1.82	-25.00	-41.91
401.51	S	-65.19	-66.77	3.71	-2.13	-25.00	-40.19
500.45	S	-63.23	-65.08	4.05	-2.21	-25.00	-38.23
697.36	S	-60.92	-62.22	3.68	-2.38	-25.00	-35.92
5007.00	H	-48.65	-53.18	12.51	-7.98	-25.00	-23.65
7510.50	H	-33.92	-34.73	10.79	-9.99	-25.00	-8.92

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Operation Band	:LTE B41	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:2593 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID	Measurement	Antenna:VERTICAL
EUT Pol.	:E2 Plane	Pol.	



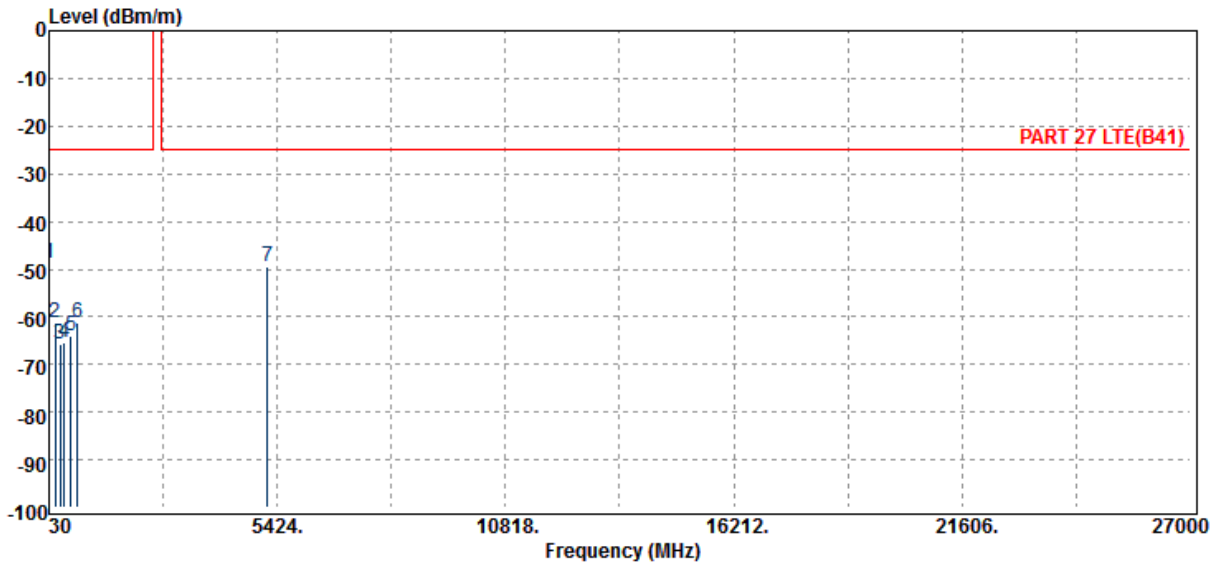
Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
31.94	S	-43.71	-29.04	-14.08	-0.59	-25.00	-18.71
173.56	S	-58.13	-56.74	-0.04	-1.35	-25.00	-33.13
299.66	S	-63.98	-65.76	3.61	-1.82	-25.00	-38.98
415.09	S	-62.32	-63.86	3.66	-2.12	-25.00	-37.32
546.04	S	-59.64	-61.82	3.99	-1.81	-25.00	-34.64
584.84	S	-58.28	-59.70	3.67	-2.25	-25.00	-33.28
5186.00	H	-52.00	-56.55	12.73	-8.18	-25.00	-27.00
7779.00	H	-31.84	-32.16	10.63	-10.31	-25.00	-6.84

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Operation Band	:LTE B41	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:2593 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID	Measurement Antenna	:HORIZONTAL
EUT Pol.	:E2 Plane	Pol.	



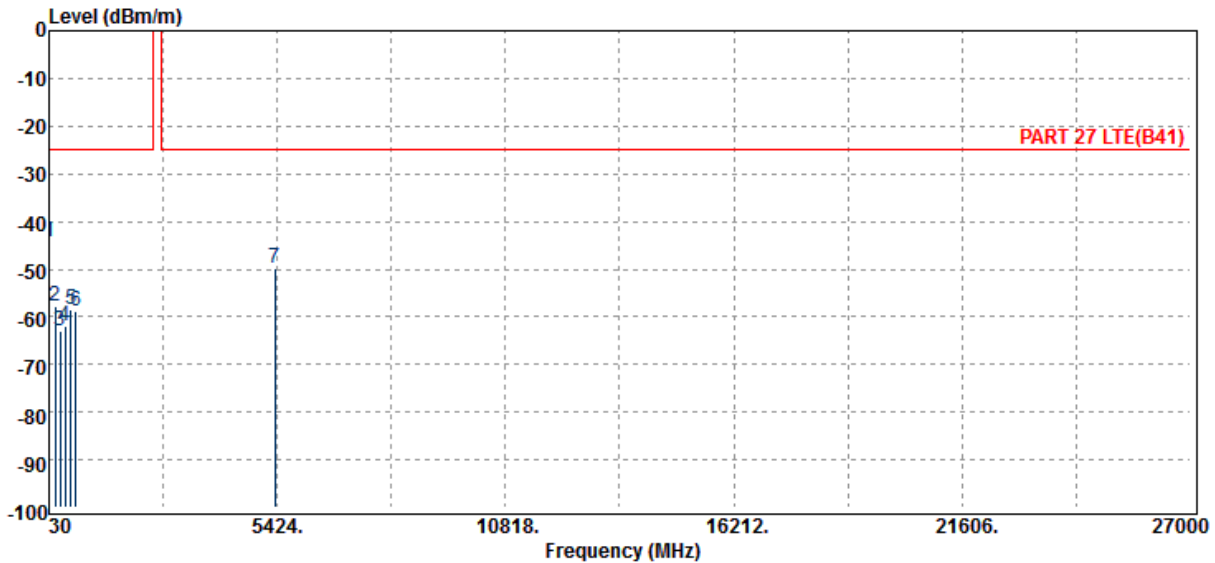
Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
31.94	S	-48.65	-33.98	-14.08	-0.59	-25.00	-23.65
172.59	S	-61.25	-59.71	-0.20	-1.34	-25.00	-36.25
299.66	S	-65.64	-67.43	3.61	-1.82	-25.00	-40.64
395.69	S	-65.46	-67.10	3.73	-2.08	-25.00	-40.46
544.10	S	-64.00	-66.20	3.99	-1.79	-25.00	-39.00
697.36	S	-61.08	-62.38	3.68	-2.38	-25.00	-36.08
5186.00	H	-49.33	-53.89	12.73	-8.18	-25.00	-24.33

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Operation Band	:LTE B41	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:2682.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH	Measurement Antenna	:VERTICAL
EUT Pol.	:E2 Plane	Pol.	



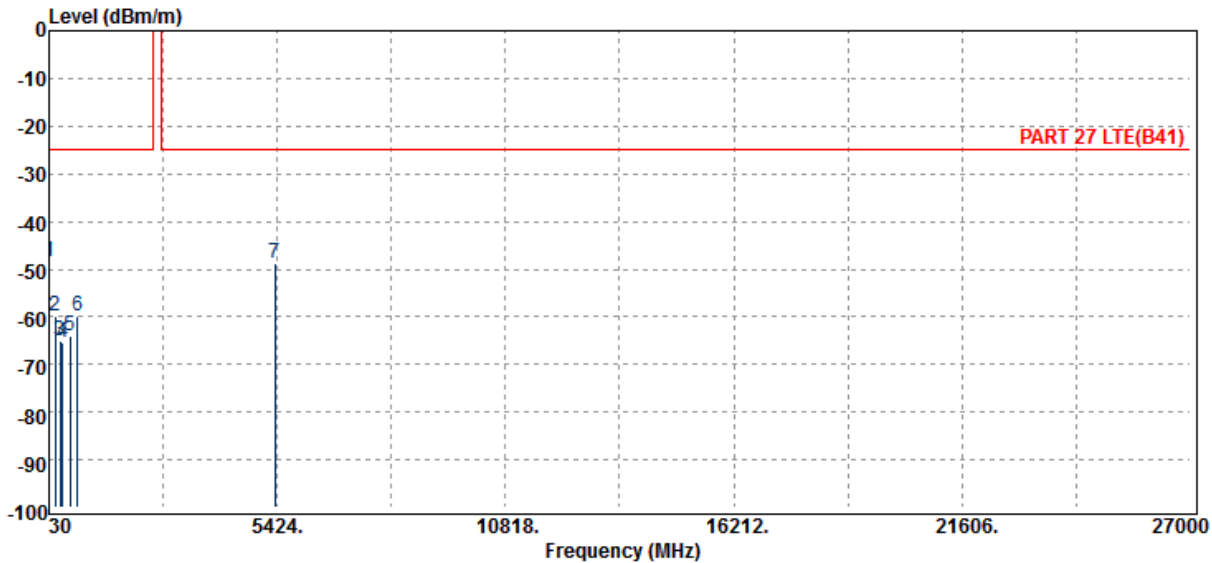
Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
31.94	S	-44.38	-29.70	-14.08	-0.59	-25.00	-19.38
170.65	S	-57.78	-55.93	-0.51	-1.33	-25.00	-32.78
298.69	S	-62.98	-64.75	3.59	-1.82	-25.00	-37.98
403.45	S	-62.07	-63.64	3.70	-2.14	-25.00	-37.07
547.01	S	-58.61	-60.73	3.98	-1.86	-25.00	-33.61
657.59	S	-58.69	-60.39	3.81	-2.11	-25.00	-33.69
5365.00	H	-49.92	-54.49	12.94	-8.37	-25.00	-24.92

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Operation Band	:LTE B41	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:2682.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



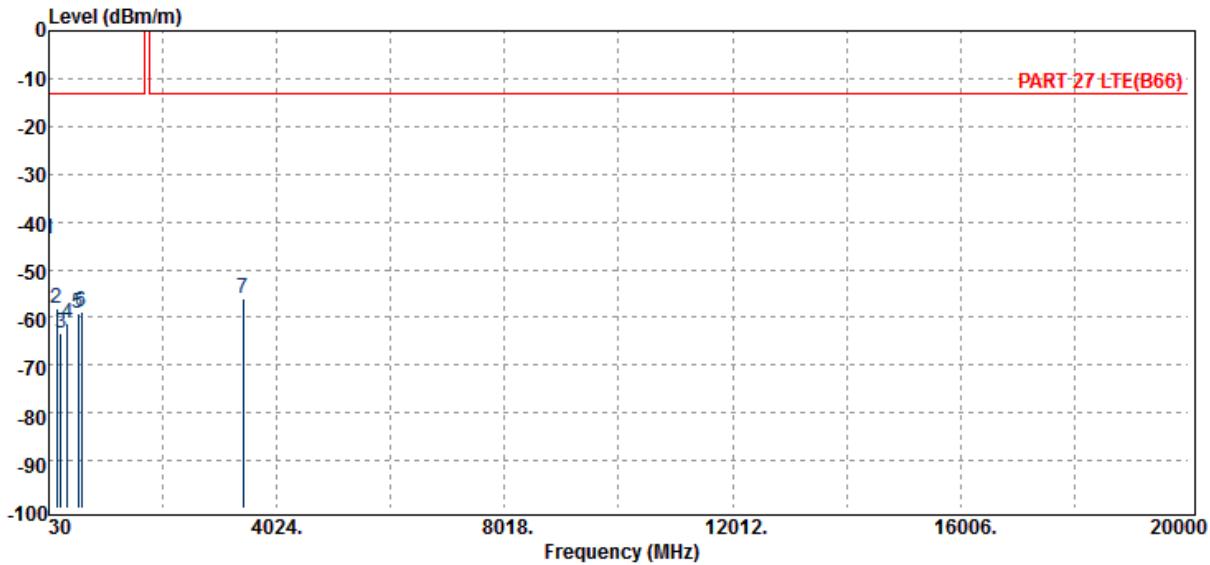
Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	S	-48.58	-33.42	-14.58	-0.58	-25.00	-23.58
173.56	S	-59.96	-58.57	-0.04	-1.35	-25.00	-34.96
298.69	S	-65.07	-66.84	3.59	-1.82	-25.00	-40.07
361.74	S	-65.24	-67.00	3.82	-2.06	-25.00	-40.24
537.31	S	-64.07	-66.00	4.00	-2.07	-25.00	-39.07
696.39	S	-59.96	-61.19	3.69	-2.46	-25.00	-34.96
5365.00	H	-48.84	-53.41	12.94	-8.37	-25.00	-23.84

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Operation Band :LTE B66 Temp./Humi. :24.1 deg_C / 65 RH
 Fundamental Frequency :1715 MHz Engineer :Tin
 Operation Mode :Tx CH LOW
 EUT Pol. :E2 Plane Measurement Antenna Pol.:VERTICAL



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
31.94	S	-43.69	-29.02	-14.08	-0.59	-13.00	-30.69
168.71	S	-58.10	-56.08	-0.70	-1.33	-13.00	-45.10
241.46	S	-63.29	-65.10	3.49	-1.68	-13.00	-50.29
357.86	S	-61.08	-62.86	3.83	-2.05	-13.00	-48.08
541.19	S	-59.21	-61.30	3.99	-1.91	-13.00	-46.21
604.24	S	-58.80	-60.22	3.56	-2.14	-13.00	-45.80
3430.00	H	-56.11	-61.81	12.24	-6.54	-13.00	-43.11

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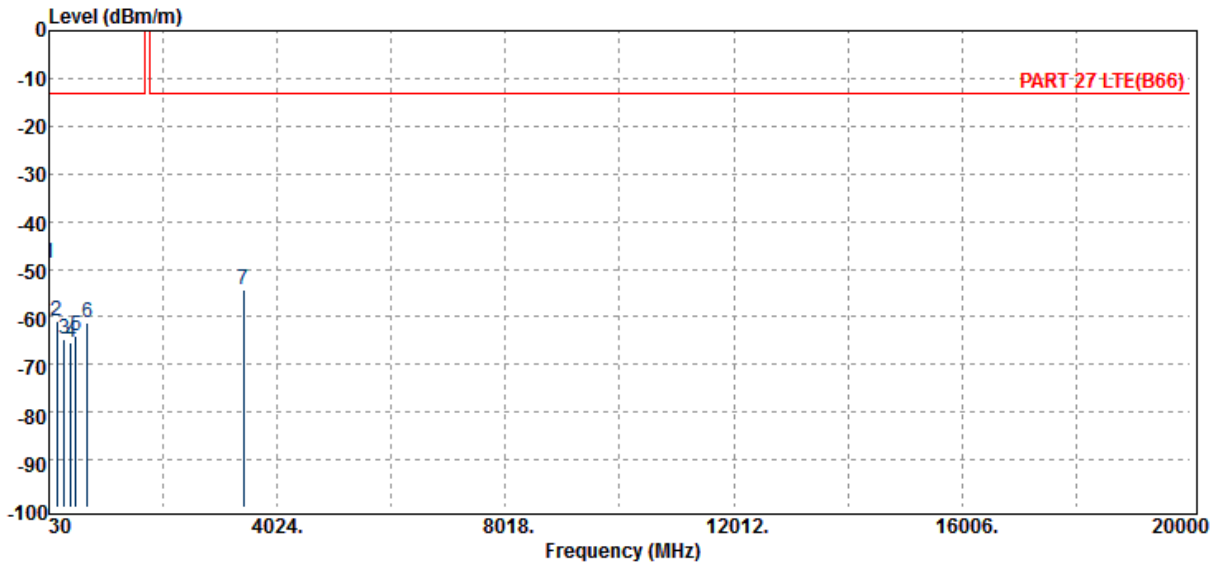
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Operation Band :LTE B66 Temp./Humi. :24.1 deg_C / 65 RH
 Fundamental Frequency :1715 MHz Engineer :Tin
 Operation Mode :Tx CH LOW
 EUT Pol. :E2 Plane Measurement Antenna Pol.:HORIZONTAL



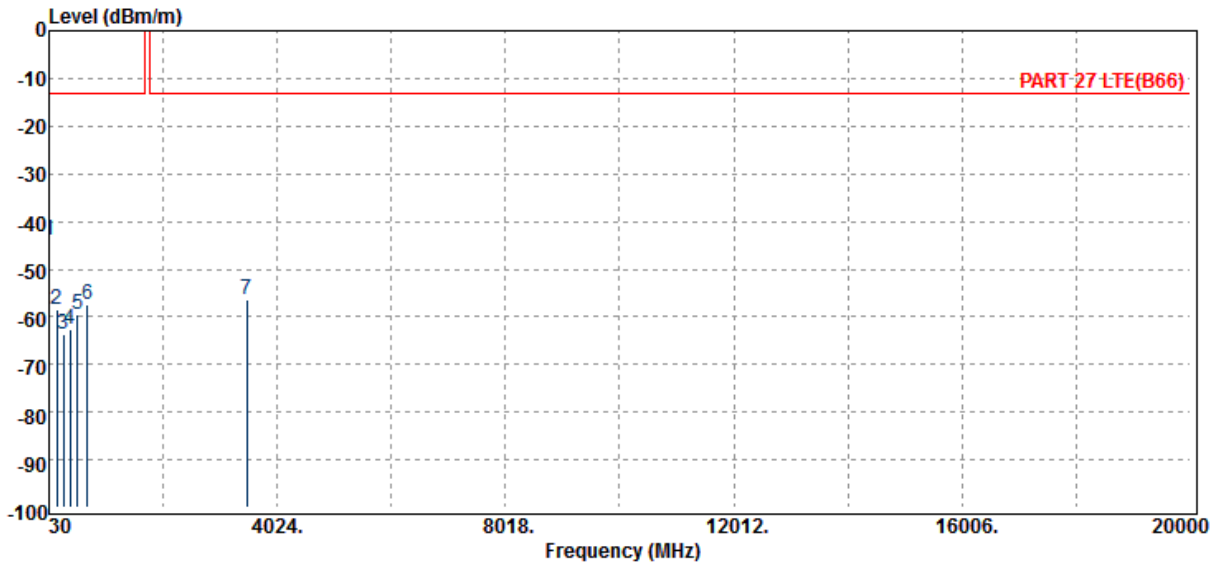
Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	S	-48.86	-33.70	-14.58	-0.58	-13.00	-35.86
168.71	S	-61.00	-58.98	-0.70	-1.33	-13.00	-48.00
299.66	S	-64.68	-66.46	3.61	-1.82	-13.00	-51.68
413.15	S	-65.50	-67.04	3.67	-2.13	-13.00	-52.50
497.54	S	-64.11	-66.00	4.03	-2.13	-13.00	-51.11
697.36	S	-61.15	-62.45	3.68	-2.38	-13.00	-48.15
3430.00	H	-54.29	-59.98	12.24	-6.54	-13.00	-41.29

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Operation Band	:LTE B66	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:1745 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID	Measurement Antenna	:VERTICAL
EUT Pol.	:E2 Plane	Pol.	



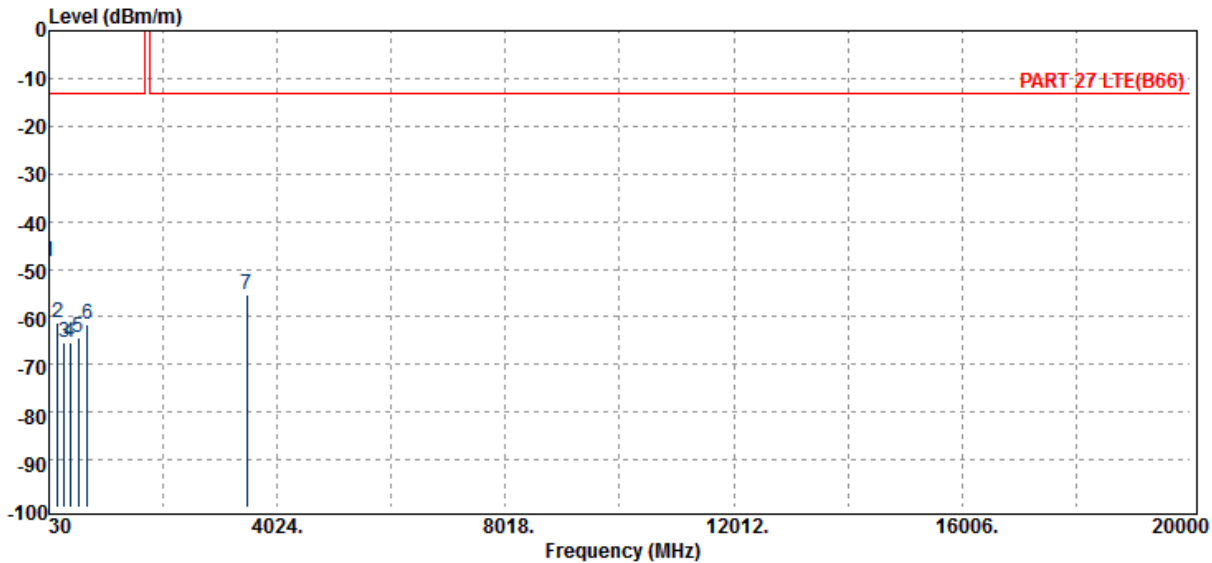
Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
31.94	S	-44.02	-29.35	-14.08	-0.59	-13.00	-31.02
167.74	S	-58.41	-56.34	-0.76	-1.32	-13.00	-45.41
285.11	S	-63.63	-65.29	3.42	-1.76	-13.00	-50.63
398.60	S	-62.49	-64.10	3.72	-2.10	-13.00	-49.49
531.49	S	-59.60	-61.30	4.01	-2.31	-13.00	-46.60
699.30	S	-57.35	-58.79	3.68	-2.24	-13.00	-44.35
3490.00	H	-56.29	-62.09	12.38	-6.58	-13.00	-43.29

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Operation Band	:LTE B66	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:1745 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



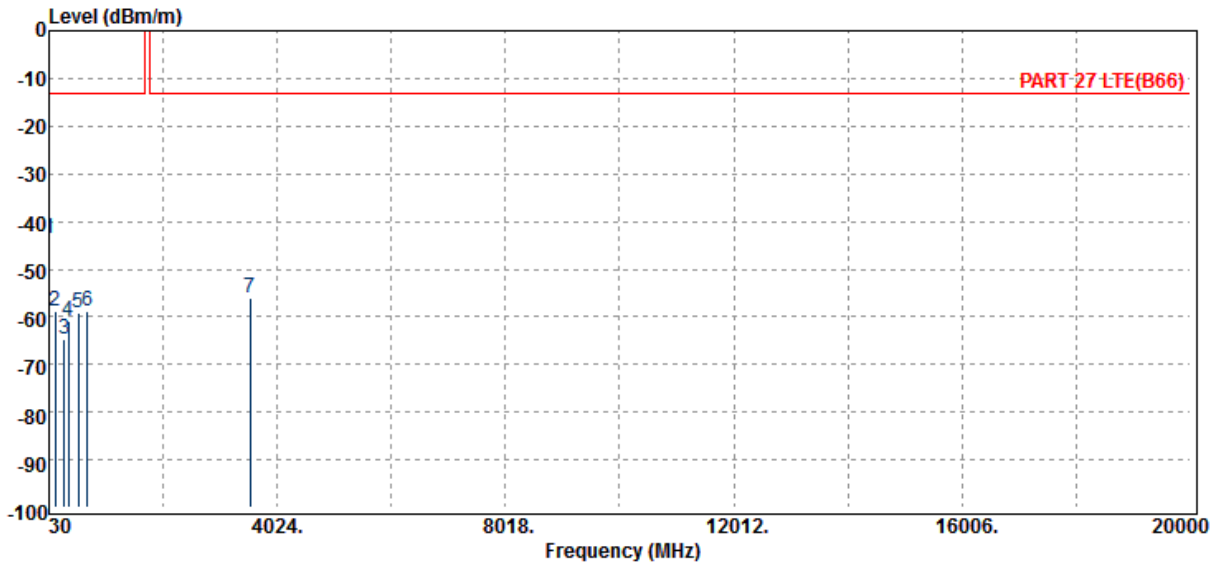
Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	S	-48.51	-33.35	-14.58	-0.58	-13.00	-35.51
177.44	S	-61.19	-60.40	0.58	-1.37	-13.00	-48.19
299.66	S	-65.42	-67.21	3.61	-1.82	-13.00	-52.42
405.39	S	-65.38	-66.93	3.69	-2.15	-13.00	-52.38
544.10	S	-64.51	-66.71	3.99	-1.79	-13.00	-51.51
700.27	S	-61.47	-62.99	3.67	-2.16	-13.00	-48.47
3490.00	H	-55.22	-61.02	12.38	-6.58	-13.00	-42.22

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Operation Band :LTE B66 Temp./Humi. :24.1 deg_C / 65 RH
 Fundamental Frequency :1775 MHz Engineer :Tin
 Operation Mode :Tx CH HIGH
 EUT Pol. :E2 Plane Measurement Antenna Pol.:VERTICAL



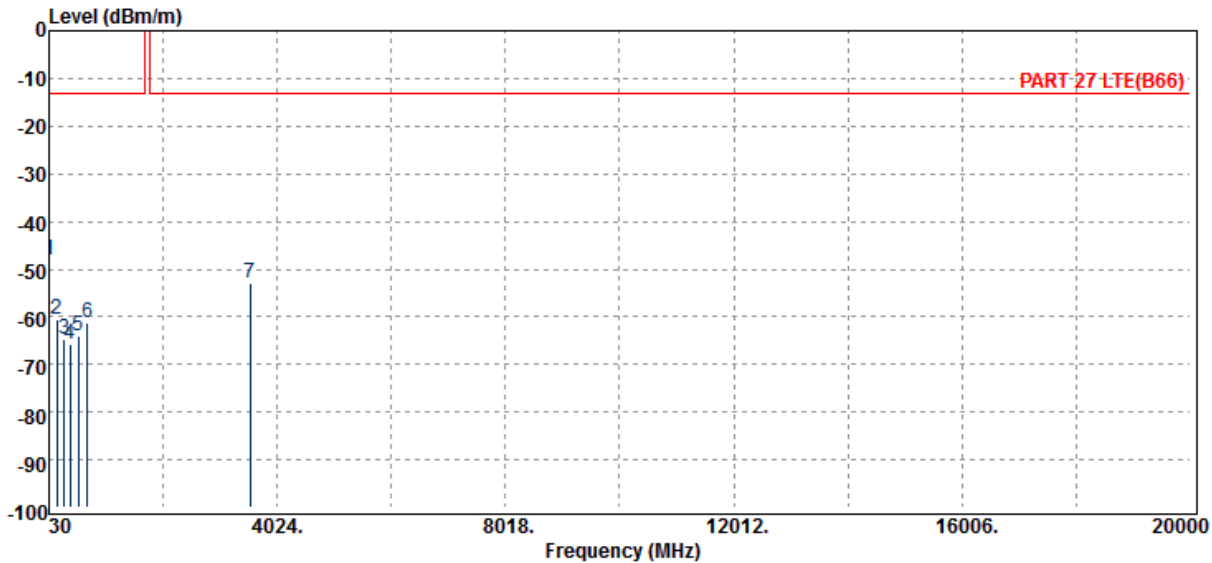
Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
32.91	S	-43.62	-29.18	-13.84	-0.60	-13.00	-30.62
134.76	S	-58.91	-55.56	-2.12	-1.23	-13.00	-45.91
296.75	S	-64.73	-66.47	3.55	-1.81	-13.00	-51.73
374.35	S	-60.89	-62.63	3.78	-2.04	-13.00	-47.89
539.25	S	-59.13	-61.14	4.00	-1.99	-13.00	-46.13
699.30	S	-58.82	-60.26	3.68	-2.24	-13.00	-45.82
3550.00	H	-55.89	-61.59	12.44	-6.75	-13.00	-42.89

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Operation Band :LTE B66 Temp./Humi. :24.1 deg_C / 65 RH
 Fundamental Frequency :1775 MHz Engineer :Tin
 Operation Mode :Tx CH HIGH
 EUT Pol. :E2 Plane Measurement Antenna Pol.:HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	S	-48.18	-33.02	-14.58	-0.58	-13.00	-35.18
172.59	S	-60.67	-59.13	-0.20	-1.34	-13.00	-47.67
299.66	S	-64.83	-66.61	3.61	-1.82	-13.00	-51.83
405.39	S	-65.71	-67.26	3.69	-2.15	-13.00	-52.71
542.16	S	-63.95	-66.08	3.99	-1.87	-13.00	-50.95
700.27	S	-61.34	-62.85	3.67	-2.16	-13.00	-48.34
3550.00	H	-53.09	-58.78	12.44	-6.75	-13.00	-40.09

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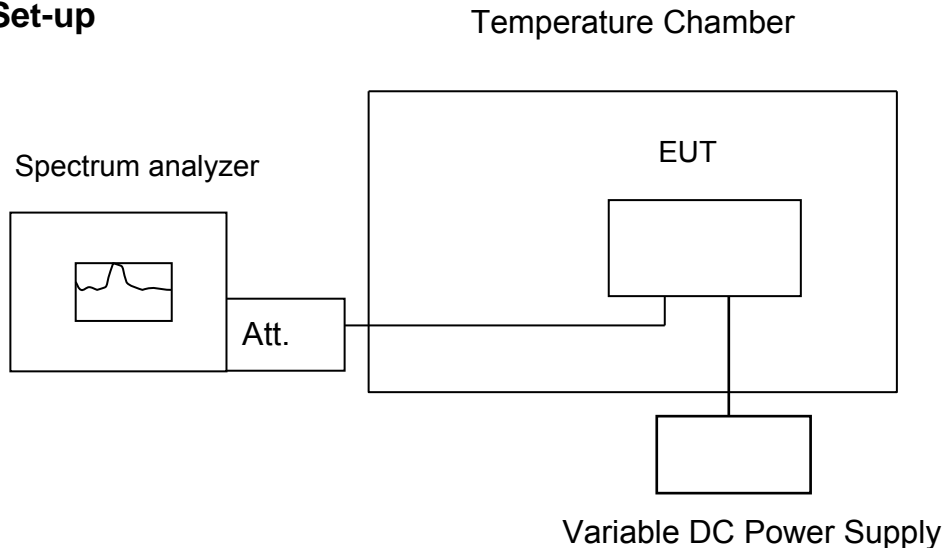
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11. FREQUENCY STABILITY MEASUREMENT

11.1. Standard Applicabl

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

11.2. Test Set-up



Note: Measurement setup for testing on Antenna connector

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11.3. 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 . 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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11.4. Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	Agilent	N9010A	MY54200716	2017/10/16	2018/10/15
Radio Communication Analyzer	Anritsu	MT8820C	6201465317	2018/01/17	2019/01/16
Attenuator	Mini-Circuit	BW-S10W2+	2	2018/01/02	2019/1/1
Splitter	RF-LAMBAD	RFLT2W1G18G	11-JSPF412-018	2018/01/02	2019/1/1
Coaxial Cables	N/A	WK CE Cable	N/A	2018/01/02	2019/1/1
EXA Spectrum Analyzer	Agilent	N9010A	MY54200716	2017/10/16	2018/10/15
Radio Communication Analyzer	Anritsu	MT8820C	6201465317	2018/01/17	2019/01/16
Attenuator	Mini-Circuit	BW-S10W2+	2	2018/01/02	2019/1/1

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11.5. Measurement Result

WCDMA II Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm				
Vdc	Temp. ()	Freq. (MHz)	Delta (Hz)	Limit (Hz)
FREQUENCY ERROR vs. VOLTAGE				
17.7	20	1879.999992	-7.99999998	4700
15.4	20	1880.000001	1.000000111	4700
12.3	20	1879.999995	-5.000000101	4700
12 (End point)	20	1880.000005	5.000000101	4700
FREQUENCY ERROR vs. Temp.				
15.4	50	1880.000009	9.000000091	4700
15.4	40	1879.999994	-5.999999985	4700
15.4	30	1879.999997	-3.000000106	4700
15.4	20	1880.000004	3.99999999	4700
15.4	10	1880.000001	9.999999975	4700
15.4	0	1879.999992	-7.99999998	4700
15.4	-10	1879.999998	-1.999999995	4700
15.4	-20	1880.000007	7.000000096	4700
15.4	-30	1879.999994	-5.999999985	4700

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WCDMA IV Mid Channel 1732.6 MHz				
Limit: +/- 2.5 ppm				
Vdc	Temp. ()	Freq. (MHz)	Delta (Hz)	Limit (Hz)
FREQUENCY ERROR vs. VOLTAGE				
17.7	20	1732.599994	-5.999999985	4331
15.4	20	1732.600008	7.999999998	4331
12.3	20	1732.600007	7.000000096	4331
12 (End point)	20	1732.600007	7.000000096	4331
FREQUENCY ERROR vs. Temp.				
15.4	50	1732.599994	-5.999999985	4331
15.4	40	1732.599996	-3.999999999	4331
15.4	30	1732.600009	9.000000091	4331
15.4	20	1732.600009	9.000000091	4331
15.4	10	1732.599999	-0.999999884	4331
15.4	0	1732.599992	-7.99999998	4331
15.4	-10	1732.600006	5.999999985	4331
15.4	-20	1732.600009	9.000000091	4331
15.4	-30	1732.599991	-8.999999864	4331
WCDMA V Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm				
Vdc	Temp. ()	Freq. (MHz)	Delta (Hz)	Limit (Hz)
FREQUENCY ERROR vs. VOLTAGE				
17.7	20	836.6	0	2091
15.4	20	836.599994	-5.999999985	2091
12.3	20	836.599999	-0.999999997	2091
12 (End point)	20	836.600005	4.999999987	2091
FREQUENCY ERROR vs. Temp.				
15.4	50	836.599999	-0.999999997	2091
15.4	40	836.599997	-2.999999992	2091
15.4	30	836.600003	2.999999992	2091
15.4	20	836.600007	6.999999982	2091
15.4	10	836.599998	-1.999999995	2091
15.4	0	836.599996	-3.999999999	2091
15.4	-10	836.599997	-2.999999992	2091
15.4	-20	836.600007	6.999999982	2091
15.4	-30	836.599999	-9.999999975	2091

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Reference Freq.:	LTE B2 Mid Channel		1880	MHz 20M QPSK CH 18900
	Temp. ()	Freq. (MHz)		
Power Supply Vdc			Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
17.7	25	1880.000009	9.00000009	4700
15.4	25	1880.000008	7.99999998	4700
12.3	25	1880.000001	1.00000011	4700
12 (End Point)	25	1879.999997	-3.0000001	4700
Freq. ERROR vs. Temp.				
15.4	-30	1880.000001	1.00000011	4700
15.4	-20	1880.000010	9.99999997	4700
15.4	-10	1879.999998	-2	4700
15.4	0	1879.999999	-1.0000001	4700
15.4	10	1880.000004	3.99999999	4700
15.4	20	1880.000002	1.99999999	4700
15.4	30	1880.000000	0	4700
15.4	40	1879.999990	-10	4700
15.4	50	1880.000002	1.99999999	4700

Reference Freq.:	LTE B4 Mid Channel		1732.5	MHz 20M QPSK CH 20175
	Temp. ()	Freq. (MHz)		
Power Supply Vdc			Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
17.7	25	1732.499993	-7.0000001	4331
15.4	25	1732.499997	-3.0000001	4331
12.3	25	1732.499997	-3.0000001	4331
12 (End Point)	25	1732.500004	3.99999999	4331
Freq. ERROR vs. Temp.				
15.4	-30	1732.499999	-1.0000001	4331
15.4	-20	1732.499993	-7.0000001	4331
15.4	-10	1732.500008	7.99999998	4331
15.4	0	1732.499992	-8	4331
15.4	10	1732.500001	1.00000011	4331
15.4	20	1732.499997	-3.0000001	4331
15.4	30	1732.500002	1.99999999	4331
15.4	40	1732.500004	3.99999999	4331
15.4	50	1732.499994	-6	4331

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Reference Freq.:	LTE B5 Mid Channel		836.5	MHz 10M QPSK CH 20525
Power Supply Vdc	Temp. ()	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
17.7	25	836.500007	6.99999998	2091
15.4	25	836.500000	0	2091
12.3	25	836.500006	5.99999998	2091
12 (End Point)	25	836.500001	1	2091
Freq. ERROR vs. Temp.				
15.4	-30	836.499999	-1	2091
15.4	-20	836.499991	-9	2091
15.4	-10	836.500009	8.99999998	2091
15.4	0	836.500005	4.99999999	2091
15.4	10	836.499996	-4	2091
15.4	20	836.499994	-6	2091
15.4	30	836.500004	3.99999999	2091
15.4	40	836.500009	8.99999998	2091
15.4	50	836.500002	1.99999999	2091
Reference Freq.:	LTE B7 Mid Channel		2535	MHz 10M QPSK CH 21100
Power Supply Vdc	Temp. ()	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
17.7	25	2535.000009	8.99999986	6338
15.4	25	2534.999991	-8.9999999	6338
12.3	25	2535.000010	10.0000002	6338
12 (End Point)	25	2535.000003	3.00000011	6338
Freq. ERROR vs. Temp.				
15.4	-30	2534.999996	-4	6338
15.4	-20	2534.999995	-4.9999999	6338
15.4	-10	2534.999992	-8	6338
15.4	0	2535.000007	7.0000001	6338
15.4	10	2534.999992	-8	6338
15.4	20	2535.000006	6.00000021	6338
15.4	30	2534.999998	-2.0000002	6338
15.4	40	2534.999997	-3.0000001	6338
15.4	50	2535.000007	7.0000001	6338

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Reference Freq.:	LTE B12 Mid Channel		707.5	MHz 10M QPSK CH 23095
Power Supply Vdc	Temp. ()	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
17.7	25	707.500003	2.99999999	1769
15.4	25	707.500009	8.99999998	1769
12.3	25	707.499991	-9	1769
12 (End Point)	25	707.500004	3.99999999	1769
Freq. ERROR vs. Temp.				
15.4	-30	707.499990	-10	1769
15.4	-20	707.499995	-5	1769
15.4	-10	707.500006	5.99999998	1769
15.4	0	707.499994	-6	1769
15.4	10	707.500002	1.99999999	1769
15.4	20	707.499994	-6	1769
15.4	30	707.500001	1	1769
15.4	40	707.499991	-9	1769
15.4	50	707.500009	8.99999998	1769
Reference Freq.:	LTE B13 Mid Channel		782	MHz 10M QPSK CH 23230
Power Supply Vdc	Temp. ()	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
17.7	25	781.999993	-7	1955
15.4	25	782.000010	9.99999997	1955
12.3	25	782.000005	4.99999999	1955
12 (End Point)	25	782.000001	1	1955
Freq. ERROR vs. Temp.				
15.4	-30	782.000010	9.99999997	1955
15.4	-20	782.000010	9.99999997	1955
15.4	-10	781.999995	-5	1955
15.4	0	782.000004	3.99999999	1955
15.4	10	782.000009	8.99999998	1955
15.4	20	781.999994	-6	1955
15.4	30	782.000007	6.99999998	1955
15.4	40	782.000007	6.99999998	1955
15.4	50	782.000009	8.99999998	1955

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Reference Freq.:	LTE B17 Mid Channel		710	MHz 10M QPSK CH 23790
Power Supply Vdc	Temp. ()	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
17.7	25	710.000008	7.99999998	1775
15.4	25	710.000002	1.99999999	1775
12.3	25	709.999990	-10	1775
12 (End Point)	25	710.000000	0	1775
Freq. ERROR vs. Temp.				
15.4	-30	709.999998	-2	1775
15.4	-20	709.999998	-2	1775
15.4	-10	709.999999	-1	1775
15.4	0	710.000002	1.99999999	1775
15.4	10	709.999996	-4	1775
15.4	20	709.999994	-6	1775
15.4	30	709.999993	-7	1775
15.4	40	710.000003	2.99999999	1775
15.4	50	710.000002	1.99999999	1775
Reference Freq.:	LTE B26 Mid Channel		831.5	MHz 15M QPSK CH 26865
Power Supply Vdc	Temp. ()	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
17.7	25	831.500005	4.99999999	2091
15.4	25	831.499998	-2	2091
12.3	25	831.500003	2.99999999	2091
12 (End Point)	25	831.500002	1.99999999	2091
Freq. ERROR vs. Temp.				
15.4	-30	831.499999	-1	2091
15.4	-20	831.500001	1	2091
15.4	-10	831.499999	-1	2091
15.4	0	831.500003	2.99999999	2091
15.4	10	831.499993	-7	2091
15.4	20	831.499994	-6	2091
15.4	30	831.500004	3.99999999	2091
15.4	40	831.499998	-2	2091
15.4	50	831.500009	8.99999998	2091

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Reference Freq.:	Part 90 LTE B26 Mid Channel		819	MHz 10M QPSK CH 26740
Power Supply Vdc	Temp. ()	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE (LTE B26 for Part 90S)				
17.7	25	819.000002	1.99999999	2048
15.4	25	818.999990	-10	2048
12.3	25	819.000003	2.99999999	2048
12 (End Point)	25	819.000003	2.99999999	2048
Freq. ERROR vs. Temp.				
15.4	-30	819.000002	1.99999999	2048
15.4	-20	818.999991	-9	2048
15.4	-10	819.000005	4.99999999	2048
15.4	0	819.000001	1	2048
15.4	10	819.000009	8.99999998	2048
15.4	20	818.999995	-5	2048
15.4	30	818.999990	-10	2048
15.4	40	818.999997	-3	2048
15.4	50	819.000001	1	2048
Reference Freq.:	LTE B30 Mid Channel		2310	MHz 10M QPSK CH 27710
Power Supply Vdc	Temp. ()	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
17.7	25	2309.999992	-8	6488
15.4	25	2310.000002	2.00000022	6488
12.3	25	2309.999992	-8	6488
12 (End Point)	25	2310.000001	0.99999988	6488
Freq. ERROR vs. Temp.				
15.4	-30	2309.999992	-8	6488
15.4	-20	2309.999991	-8.99999999	6488
15.4	-10	2309.999996	-4	6488
15.4	0	2310.000001	0.99999988	6488
15.4	10	2309.999999	-0.99999999	6488
15.4	20	2309.999997	-3.00000001	6488
15.4	30	2310.000004	3.99999999	6488
15.4	40	2309.999992	-8	6488
15.4	50	2310.000004	3.99999999	6488

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Reference Freq.:	LTE B38 Mid Channel		2595	MHz 10M QPSK CH 38000
Power Supply Vdc	Temp. ()	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
17.7	25	2594.999998	-2.0000002	6488
15.4	25	2595.000003	3.00000011	6488
12.3	25	2594.999993	-7.0000001	6488
12 (End Point)	25	2595.000004	3.99999999	6488
Freq. ERROR vs. Temp.				
15.4	-30	2594.999993	-7.0000001	6488
15.4	-20	2595.000009	8.99999986	6488
15.4	-10	2594.999996	-4	6488
15.4	0	2594.999995	-4.9999999	6488
15.4	10	2595.000000	0	6488
15.4	20	2595.000007	7.0000001	6488
15.4	30	2595.000001	0.99999988	6488
15.4	40	2595.000000	0	6488
15.4	50	2595.000010	10.0000002	6488

Reference Freq.:	LTE B41 Mid Channel		2593	MHz 10M QPSK CH 40620
Power Supply Vdc	Temp. ()	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
17.7	25	2592.999994	-6.0000002	6488
15.4	25	2593.000003	3.00000011	6488
12.3	25	2593.000007	7.0000001	6488
12 (End Point)	25	2593.000002	2.00000022	6488
Freq. ERROR vs. Temp.				
15.4	-30	2592.999997	-3.0000001	6488
15.4	-20	2593.000001	0.99999988	6488
15.4	-10	2593.000001	0.99999988	6488
15.4	0	2593.000005	4.99999987	6488
15.4	10	2593.000004	3.99999999	6488
15.4	20	2592.999992	-8	6488
15.4	30	2592.999995	-4.9999999	6488
15.4	40	2593.000006	6.00000021	6488
15.4	50	2593.000001	0.99999988	6488

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Reference Freq.:	LTE B66 Mid Channel		1745	MHz 10M QPSK CH 132322
Power Supply Vdc	Temp. ()	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
17.7	25	1744.999993	-7.0000001	6488
15.4	25	1745.000004	3.99999999	6488
12.3	25	1745.000008	7.99999998	6488
12 (End Point)	25	1745.000005	5.0000001	6488
Freq. ERROR vs. Temp.				
15.4	-30	1745.000008	7.99999998	6488
15.4	-20	1745.000001	1.00000011	6488
15.4	-10	1745.000002	1.99999999	6488
15.4	0	1744.999997	-3.0000001	6488
15.4	10	1744.999990	-10	6488
15.4	20	1745.000006	5.99999998	6488
15.4	30	1745.000010	9.99999997	6488
15.4	40	1744.999997	-3.0000001	6488
15.4	50	1745.000010	9.99999997	6488

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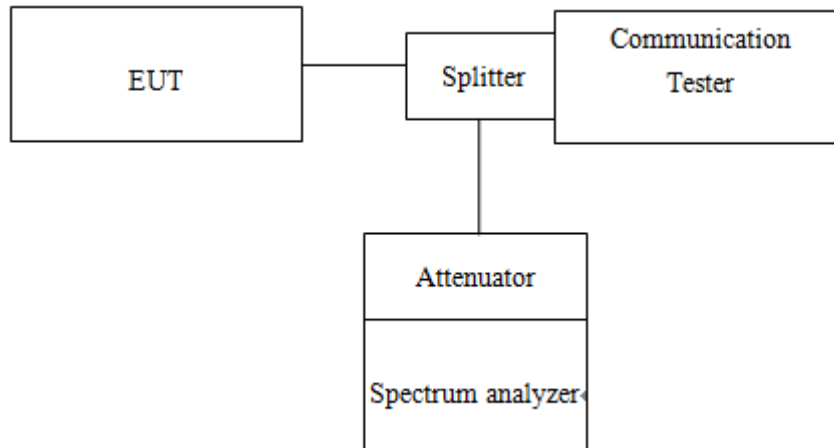
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12. PEAK TO AVERAGE RATIO

12.1. Standard Applicable

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

12.2. Test SET-UP



12.3. 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.

12.4. Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	06/20/2017	06/19/2018
Communication Tester	Anritsu	MT8820C	6201107337	05/25/2017	05/24/2018
Coaxial Cable 30cm	WOKEN	00100A1F1A 195C	RF01	12/12/2016	12/11/2017
Temperature Chamber	TERCHY	MHK-120LK	1020582	06/13/2017	06/12/2018
DC Block	PASTERNAK	PE8210	RF29	12/12/2016	12/11/2017
Splitter	RF-LAMBAD	RFLT2W1G1 8G	RF35	12/12/2016	12/11/2017
Attenuator	WOKEN	218FS-10	RF23	12/12/2016	12/11/2017
DC Power Supply	Agilent	E3640A	MY53140006	05/02/2017	05/01/2018
Communication Tester	Anritsu	MT8820C	6201107337	05/25/2017	05/24/2018

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12.5. Measurement Result

Tabular Results:

Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA II	HSDPA II	HSUPA II
1852.4	9262	3.55	3.55	3.56
1880	9400	3.53	3.54	3.55
1907.6	9538	3.51	3.49	3.49

Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA IV	HSDPA IV	HSUPA IV
1712.4	1312	3.49	3.43	3.45
1732.6	1413	3.46	3.48	3.47
1752.6	1513	3.44	3.46	3.44

Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA V	HSDPA V	HSUPA V
826.4	4132	3.07	3.07	3.09
836.6	4183	3.26	3.25	3.26
846.6	4233	3.08	3.06	3.07

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LTE BAND 2							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
1850.7	18607	6.94	13	1851.5	18615	6.99	13
1880.0	18900	6.77	13	1880.0	18900	6.79	13
1909.3	19193	6.64	13	1908.5	19185	6.56	13
LTE BAND 2							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
1852.5	18625	6.75	13	1855.0	18650	6.74	13
1880.0	18900	6.80	13	1880.0	18900	6.66	13
1907.5	19175	6.54	13	1905.0	19150	6.54	13
LTE BAND 2							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
1857.5	18675	6.42	13	1860.0	18700	6.81	13
1880.0	18900	6.36	13	1880.0	18900	6.73	13
1902.5	19125	6.28	13	1900.0	19100	6.72	13

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LTE BAND 4							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
1710.7	19957	6.85	13	1711.5	19965	6.70	13
1732.5	20175	6.98	13	1732.5	20175	6.62	13
1754.3	20393	6.71	13	1753.5	20385	6.59	13

LTE BAND 4							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
1712.5	19957	6.64	13	1715.0	20000	6.41	13
1732.5	20175	6.51	13	1732.5	20175	6.56	13
1752.5	20375	6.51	13	1750.0	20350	6.41	13

LTE BAND 4							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
1717.5	20025	6.21	13	1720.0	20050	6.66	13
1732.5	20175	6.37	13	1732.5	20175	6.73	13
1747.5	20325	6.26	13	1745.0	20300	6.65	13

LTE BAND 5							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
824.7	20407	5.14	13	825.5	20415	5.71	13
836.5	20525	6.65	13	836.5	20525	6.49	13
848.3	20643	6.08	13	847.5	20635	6.20	13

LTE BAND 5							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
826.5	20425	5.57	13	829.0	20450	5.95	13
836.5	20525	6.43	13	836.5	20525	6.47	13
846.5	20625	5.80	13	844.0	20600	5.82	13

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LTE BAND 7							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
2502.5	20775	5.88	13	2505.0	20800	5.99	13
2535.0	21100	6.05	13	2535.0	21100	6.15	13
2567.5	21375	6.00	13	2565.0	21350	5.98	13

LTE BAND 7							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
2507.5	20825	6.07	13	2510	20850	6.68	13
2535.0	21100	6.05	13	2535	21100	6.56	13
2562.5	21375	6.06	13	2560	21350	6.67	13

LTE BAND 12							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
699.7	23017	5.99	13	700.5	23025	6.30	13
707.5	23095	6.35	13	707.5	23095	6.45	13
715.3	23173	6.54	13	714.5	23165	6.45	13

LTE BAND 12							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
701.5	23035	6.24	13	704.0	23060	6.21	13
707.5	23095	6.35	13	707.5	23095	6.43	13
713.5	23155	6.32	13	711.0	23130	6.23	13

LTE BAND 13							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
779.5	23205	6.47	13	782.0	23230	6.18	13
782.0	23230	6.19	13				
784.5	23255	6.16	13				

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LTE BAND 17							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
706.5	23755	6.33	13	709	23780	6.46	13
710	23790	6.31	13	710	23790	6.52	13
713.5	23825	6.43	13	711	23780	6.42	13

LTE BAND 26							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
814.7	26697	5.09	13	815.5	26705	5.65	13
831.5	26865	6.53	13	831.5	26865	6.59	13
848.3	27033	6.08	13	847.5	27025	6.14	13

LTE BAND 26							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
816.5	26715	5.57	13	820.0	26750	6.08	13
831.5	26865	6.38	13	831.5	26865	6.45	13
846.5	27015	5.71	13	844.0	26990	5.70	13

LTE BAND 26							
Channel bandwidth: 15MHz							
Freq. (MHz)	CH	PAPR (dB)					
		16QAM	Limit				
822.5	26775	6.22	13				
831.5	26865	6.40	13				
841.5	26965	6.28	13				

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LTE BAND 26 for part 90S							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
814.7	26697	6.11	13	815.5	26705	6.25	13
819.0	26740	6.09	13	819	26740	6.30	13
823.3	26783	5.39	13	822.5	26775	5.95	13

LTE BAND 26 for part 90S							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
816.5	26715	6.21	13	819.0	26740	6.19	13
819.0	26740	6.20	13				
821.5	26765	6.06	13				

LTE BAND 30							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	Peak-to-Average		Freq. (MHz)	CH	Peak-to-Average	
		6.65	Limit			6.65	Limit
2307.5	27685	6.21	13	2310.0	27710	6.04	13
2310.0	27710	6.24	13				
2312.5	27735	6.00	13				

LTE BAND 38							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
2572.5	37775	7.73	13	2575	37800	8.08	13
2595.0	38000	7.48	13	2595	38000	8.52	13
2617.5	38225	7.79	13	2615	38200	8.34	13

LTE BAND 38							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
2577.5	37825	7.29	13	2580.0	37850	10.47	13
2595.0	38000	9.59	13	2595.0	38000	11.68	13
2612.5	38175	8.02	13	2610.0	38150	9.73	13

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LTE BAND 41							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
2498.5	39675	7.26	13	2501.0	39700	8.27	13
2593.0	40620	7.09	13	2593.0	40620	8.08	13
2687.5	41565	9.06	13	2685.0	41540	6.97	13

LTE BAND 41							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
2503.5	39725	8.40	13	2506.0	39750	8.06	13
2593.0	40620	8.50	13	2593.0	40620	8.03	13
2682.5	41515	7.34	13	2680.0	41490	9.91	13

LTE BAND 66							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	Peak-to-Average		Freq. (MHz)	CH	Peak-to-Average	
		16QAM	Limit			16QAM	Limit
1710.7	131979	6.85	13	1711.5	131987	6.72	13
1745.0	132322	6.63	13	1745.0	132322	6.75	13
1779.3	132665	6.61	13	1778.5	132657	6.58	13

LTE BAND 66							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	Peak-to-Average		Freq. (MHz)	CH	Peak-to-Average	
		16QAM	Limit			16QAM	Limit
1712.5	131997	6.58	13	1715.0	132022	6.48	13
1745.0	132322	6.63	13	1745.0	132322	6.60	13
1777.5	132647	6.60	13	1775.0	132622	6.41	13

LTE BAND 66							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	Peak-to-Average		Freq. (MHz)	CH	Peak-to-Average	
		16QAM	Limit			16QAM	Limit
1717.5	132047	6.29	13	1720.0	132072	6.68	13
1745.0	132322	6.27	13	1745.0	132322	6.68	13
1772.5	132597	6.22	13	1770.0	132572	6.81	13

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Measurement Results:

Please refer to next page for test plots.

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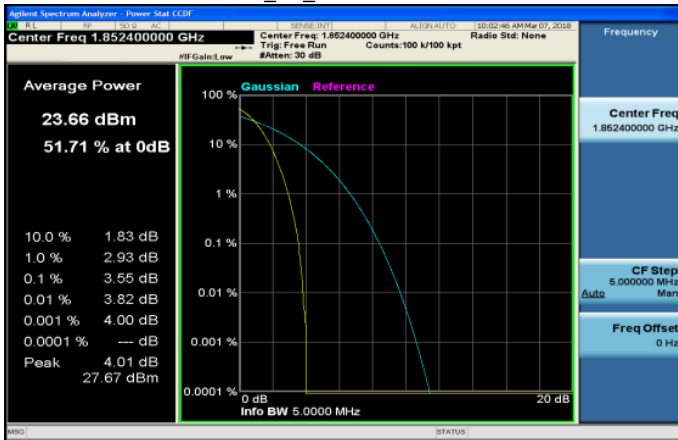
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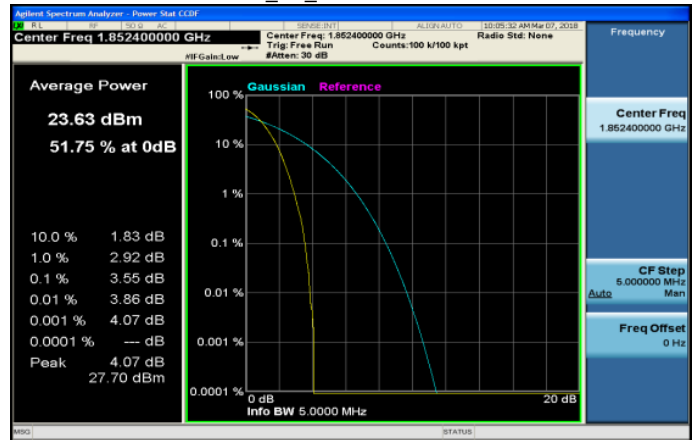
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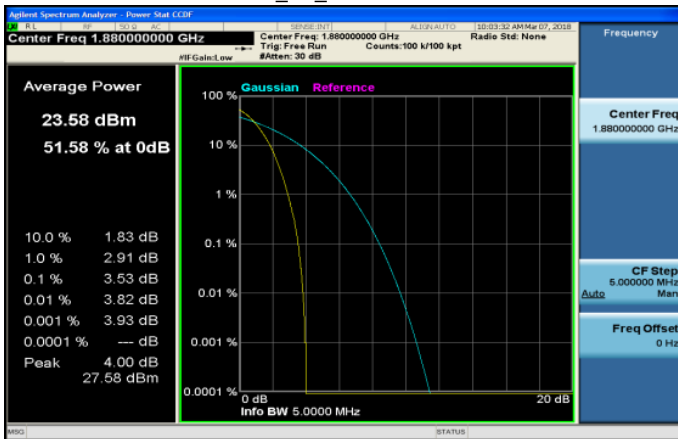
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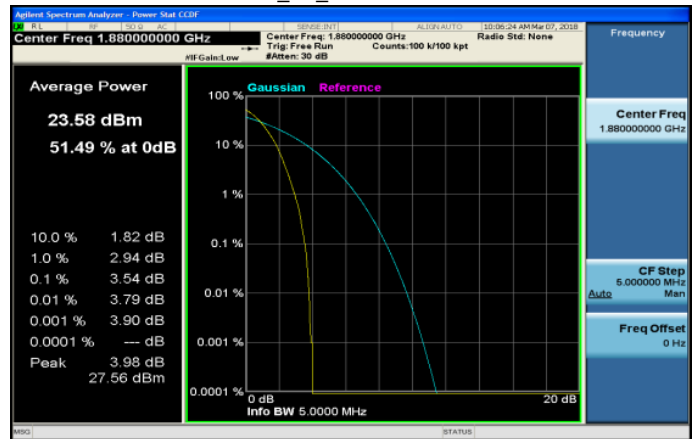
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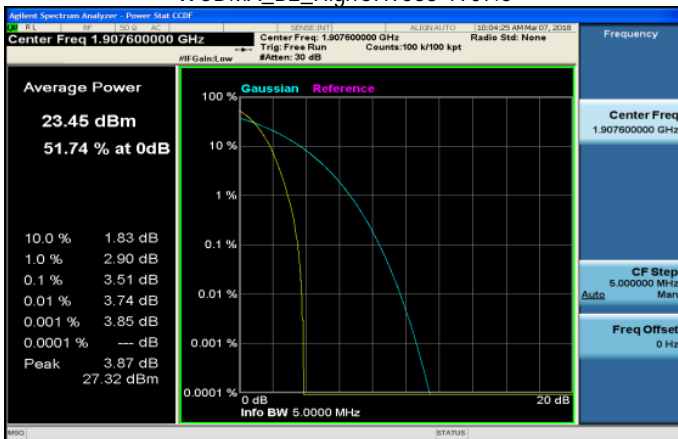
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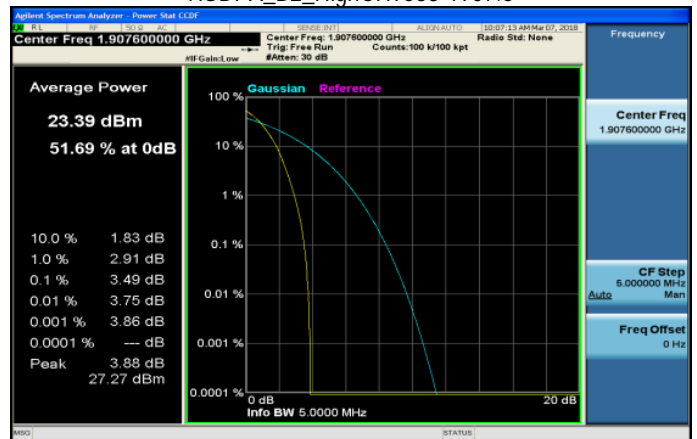
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HSDPA_B2_HighCH9538-1907.6



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