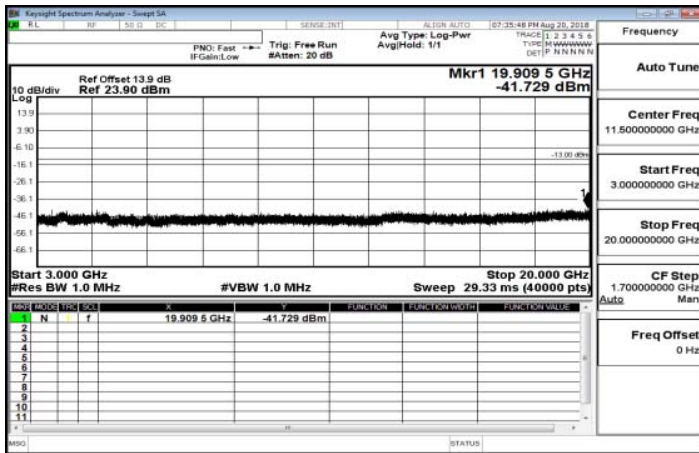
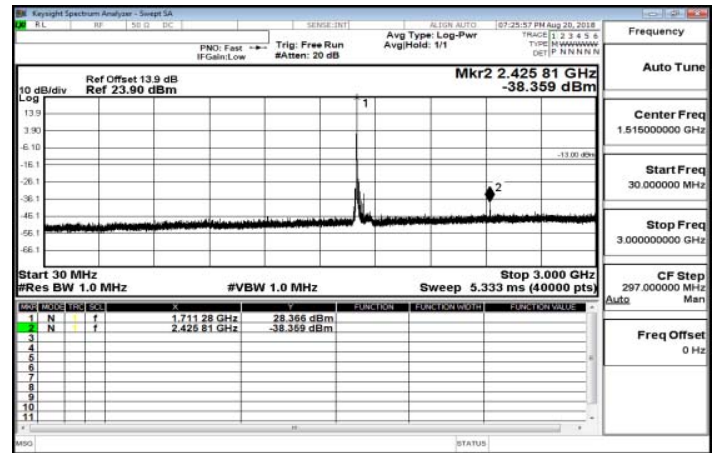


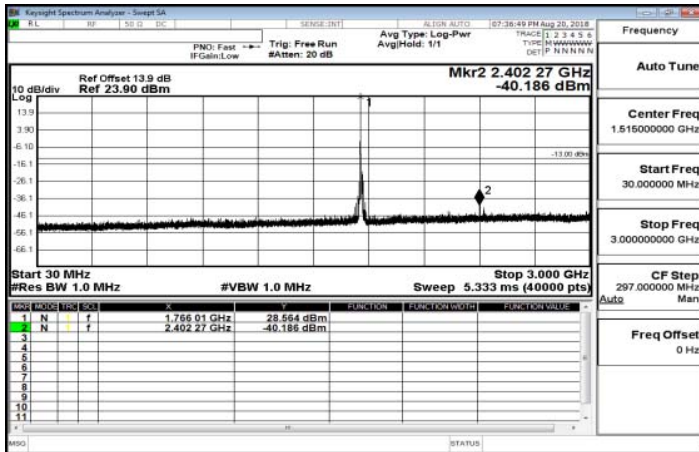
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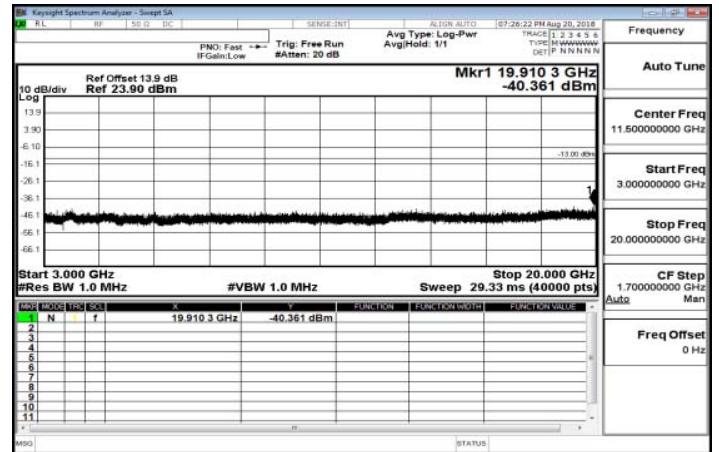
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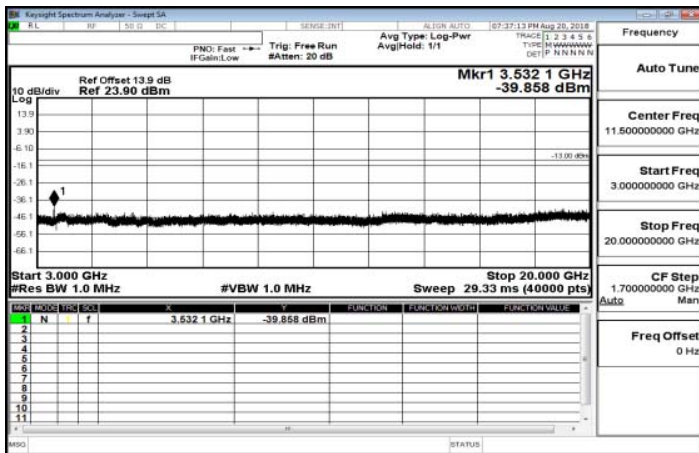
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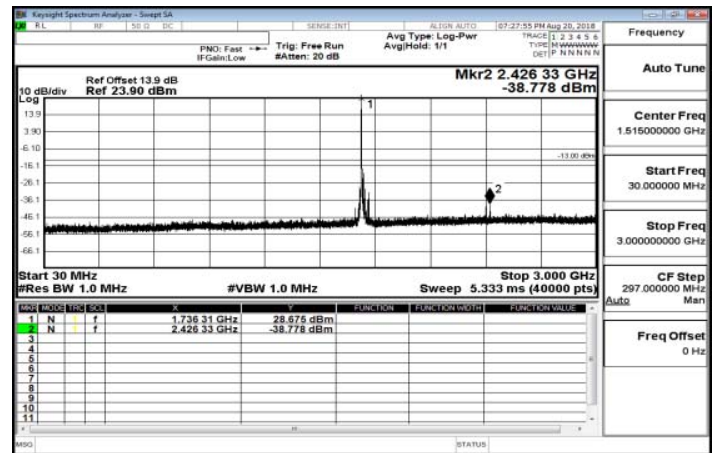
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3GHz-20GHz_Band66_15MHz_QPSK_1_0_HighCH132597



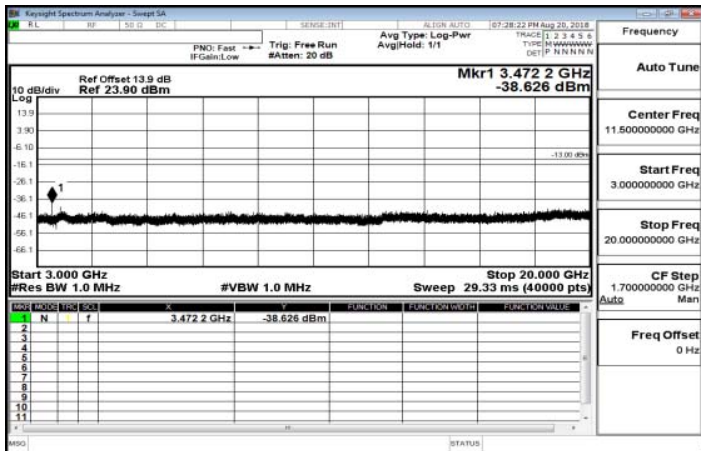
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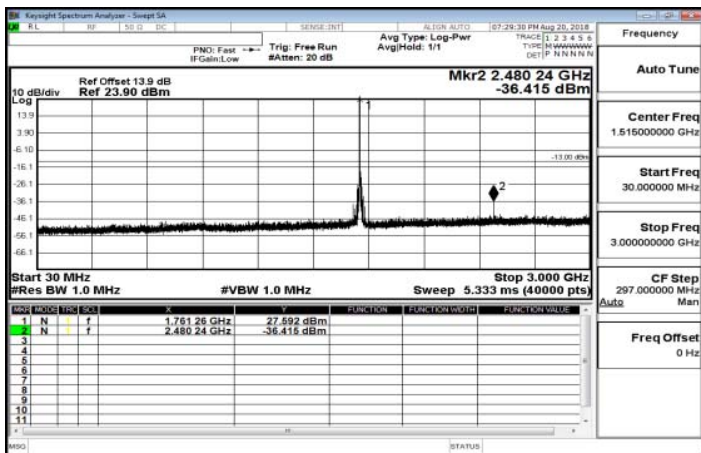
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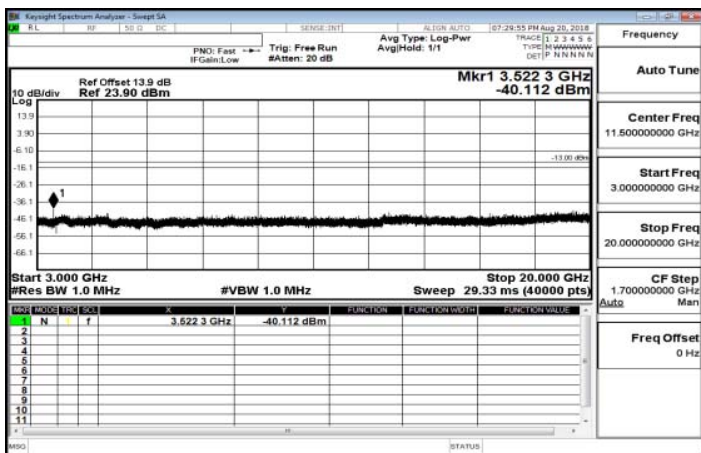
3GHz~20GHz_Band66_20MHz_QPSK_1_0_MidCH132322



30MHz~3GHz_Band66_20MHz_QPSK_1_0_HighCH132572



3GHz~20GHz_Band66_20MHz_QPSK_1_0_HighCH132572



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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(c) (5) & FCC §27.53(g)

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

FCC §27.53(h) (3)

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

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FCC §27.53(m) (4) (6)

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

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

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According to RSS-130 §4.6

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

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

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

P (dBW), by at least:

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

According to RSS-132 §5.5

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

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

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

According to RSS-133 §6.5.1

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

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

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

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According to RSS-139 §6.5

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

According to RSS-195 §5.6.2

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

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

Frequency (MHz)	Attenuation (dB)
<2200	$43 + 10 \log_{10}(p)$
2200 - 2288	$70 + 10 \log_{10}(p)$
2288 - 2292	$67 + 10 \log_{10}(p)$
2292 - 2296	$61 + 10 \log_{10}(p)$
2296 - 2300	$55 + 10 \log_{10}(p)$
2300 - 2305	$43 + 10 \log_{10}(p)$
2305 - 2320	$43 + 10 \log_{10}(p)$ ^{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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According to RSS-199 §4.6

Equipment shall comply with the following unwanted emission limits:

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

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

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

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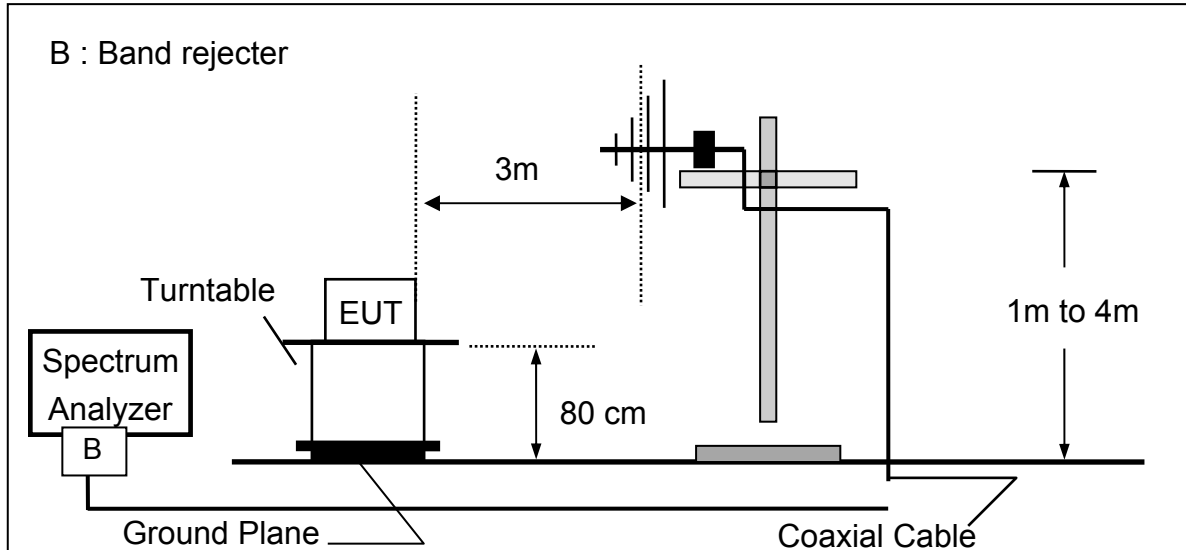
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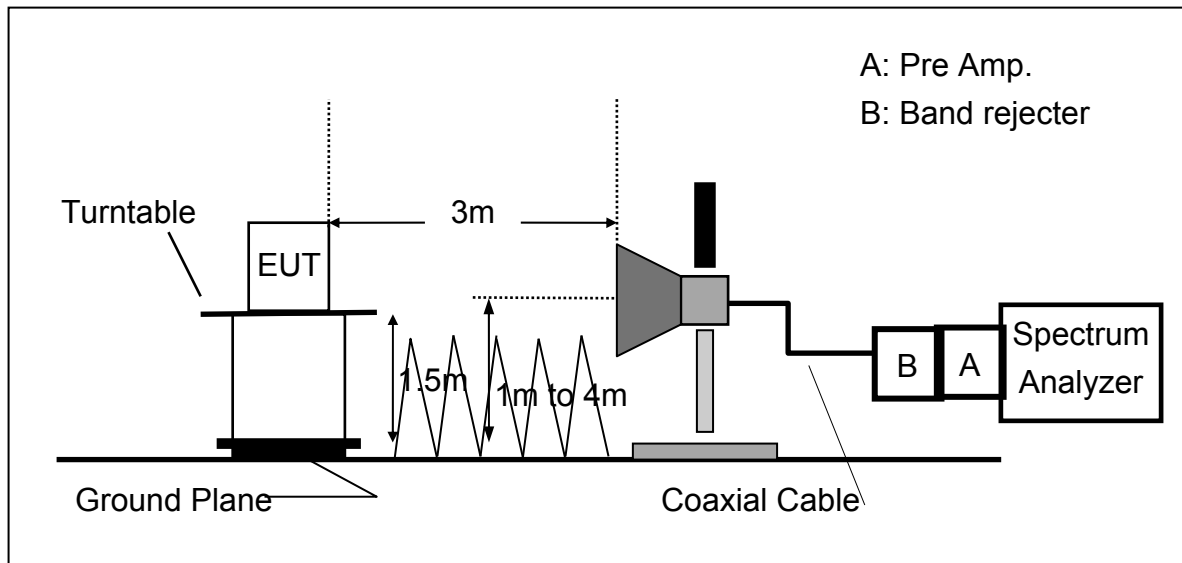
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10.2. EUT Setup

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.

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

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

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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.
Broadband Antenna	TESEQ	CBL 6112D	35243	2017/11/10	2018/11/09
Horn Antenna	Schwarzbeck	BBHA9120D	1341	2018/06/07	2019/06/06
Horn Antenna	SCHWAZBECK	BBHA9170	184	2017/12/12	2018/12/11
EMI Test Receiver	R&S	ESU 40	100363	2018/04/11	2019/04/10
Radio Communication Analyzer	Anritsu	MT8820C	6201107337	2018/06/15	2019/06/14
Pre-Amplifier	EMC Instruments	EMC330	980096	2017/12/26	2018/12/25
Pre-Amplifier	EMC Instruments	EMC0011830	980199	2017/12/26	2018/12/25
Pre-Amplifier	EMC Instruments	EMC184045B	980135	2017/10/27	2018/10/26
Attenuator	Marvelous	MVE2213-30	RF28	2017/12/26	2018/12/25
Notch Filter	Woken	EWT-54-0037	RF54	2017/12/26	2018/12/25
Notch Filter	Woken	EWT-54-0038	RF55	2017/12/26	2018/12/25
Coaxial Cable	Huber+Suhner	RG 214/U	W21.01	2017/12/26	2018/12/25
Coaxial Cable	Huber Suhner	EMC106-SM-SM-7 200	150703	2017/12/26	2018/12/25
Coaxial Cable	Huber Suhner	EMC106-SM-SM-9 100	150704	2017/12/26	2018/12/25
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17388/4	2017/12/26	2018/12/25
Coaxial Cable	Huber Suhner	RG 214/U	W22.03	2017/12/26	2018/12/25
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17413/4	2017/12/26	2018/12/25

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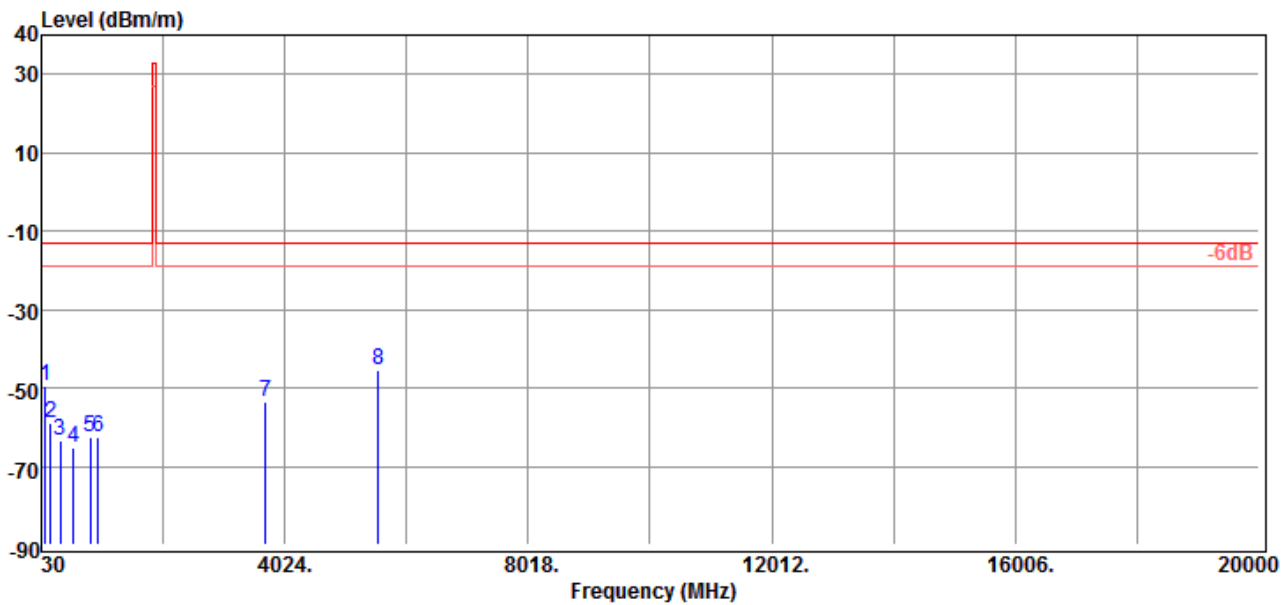
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10.5. Measurement Result:

Radiated Spurious Emission Measurement Result: WCDMA Band 2 Mode

Operation Mode	:WCDMA B2	Test Date	:2018-08-15
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E1	Antenna Pol.	:VERTICAL
Test Channel	:1852.4 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
88.20	-49.66	-48.96	0.11	-0.81	-13.00	-36.66
188.11	-58.97	-62.92	5.13	-1.18	-13.00	-45.97
344.28	-63.65	-67.54	5.80	-1.91	-13.00	-50.65
559.62	-65.22	-69.22	6.31	-2.31	-13.00	-52.22
835.10	-62.39	-67.53	7.52	-2.38	-13.00	-49.39
964.11	-62.46	-67.36	7.70	-2.80	-13.00	-49.46
3704.80	-53.76	-59.45	12.43	-6.74	-13.00	-40.76
5557.20	-45.49	-52.06	13.01	-6.44	-13.00	-32.49

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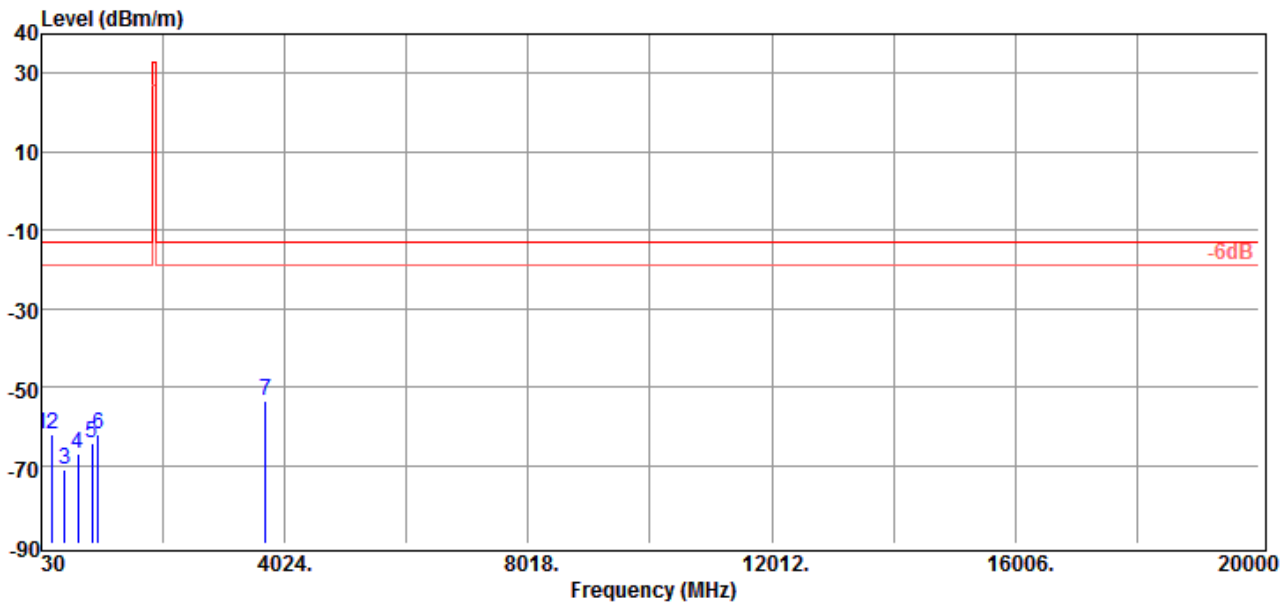
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Operation Mode	:WCDMA B2	Test Date	:2018-08-15
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E1	Antenna Pol.	:HORIZONTAL
Test Channel	:1852.4 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
35.82	-62.16	-46.57	-15.06	-0.53	-13.00	-49.16
210.42	-62.21	-66.61	5.68	-1.28	-13.00	-49.21
412.18	-70.93	-74.57	5.68	-2.04	-13.00	-57.93
625.58	-66.86	-71.30	6.77	-2.33	-13.00	-53.86
862.26	-64.47	-69.61	7.52	-2.38	-13.00	-51.47
968.96	-61.96	-66.85	7.72	-2.83	-13.00	-48.96
3704.80	-53.38	-59.07	12.43	-6.74	-13.00	-40.38

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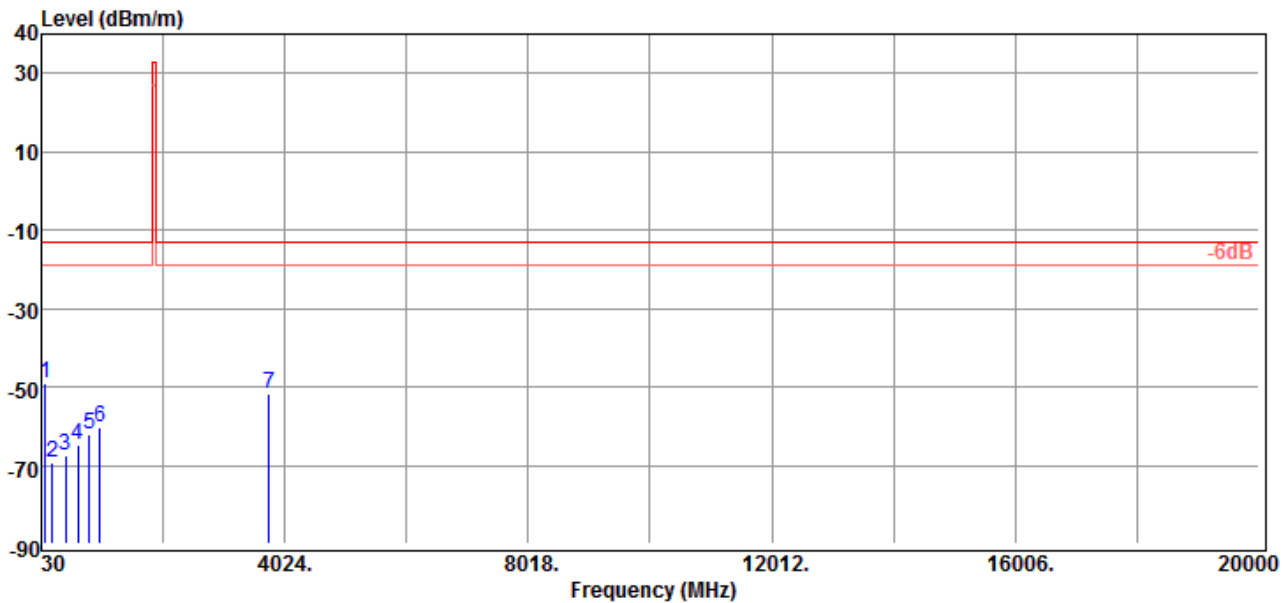
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Operation Mode	:WCDMA B2	Test Date	:2018-08-15
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E1	Antenna Pol.	:VERTICAL
Test Channel	:1880 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
92.08	-49.00	-47.98	-0.20	-0.82	-13.00	-36.00
210.42	-69.47	-73.87	5.68	-1.28	-13.00	-56.47
423.82	-67.34	-71.10	5.81	-2.05	-13.00	-54.34
625.58	-64.71	-69.15	6.77	-2.33	-13.00	-51.71
815.70	-62.17	-67.31	7.55	-2.41	-13.00	-49.17
987.39	-60.51	-65.36	7.77	-2.92	-13.00	-47.51
3760.00	-51.66	-57.45	12.46	-6.67	-13.00	-38.66

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Operation Mode	:WCDMA B2	Test Date	:2018-08-15
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E1	Antenna Pol.	:HORIZONTAL
Test Channel	:1880 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
156.10	-56.27	-58.23	2.99	-1.03	-13.00	-43.27
229.82	-59.09	-63.15	5.42	-1.36	-13.00	-46.09
329.73	-62.93	-66.92	5.81	-1.82	-13.00	-49.93
442.25	-69.42	-73.35	5.99	-2.06	-13.00	-56.42
594.54	-67.42	-71.89	6.62	-2.15	-13.00	-54.42
859.35	-63.76	-68.91	7.52	-2.37	-13.00	-50.76
3760.00	-52.08	-57.87	12.46	-6.67	-13.00	-39.08

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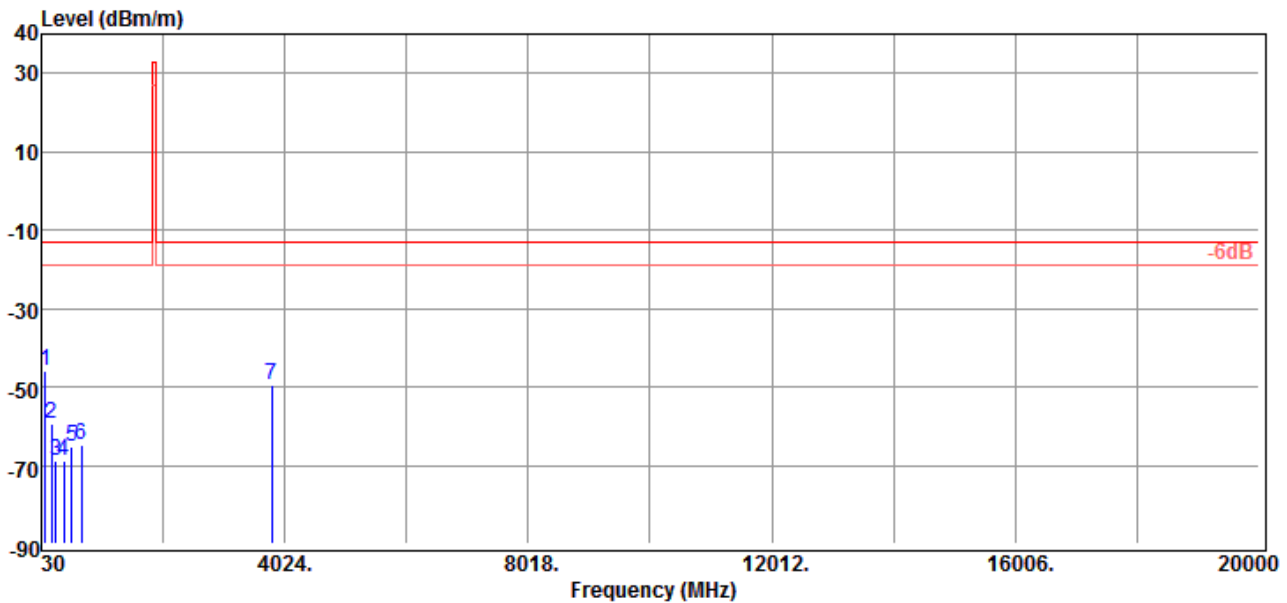
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Operation Mode	:WCDMA B2	Test Date	:2018-08-15
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E1	Antenna Pol.	:VERTICAL
Test Channel	:1907.6 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
90.14	-45.85	-45.02	-0.02	-0.81	-13.00	-32.85
194.90	-59.33	-63.64	5.53	-1.22	-13.00	-46.33
272.50	-68.90	-72.87	5.49	-1.52	-13.00	-55.90
400.54	-68.85	-72.37	5.56	-2.04	-13.00	-55.85
534.40	-65.34	-69.15	6.24	-2.43	-13.00	-52.34
684.75	-64.60	-69.41	7.18	-2.37	-13.00	-51.60
3815.20	-49.37	-55.27	12.49	-6.59	-13.00	-36.37

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Operation Mode	:WCDMA B2	Test Date	:2018-08-15
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E1	Antenna Pol.	:HORIZONTAL
Test Channel	:1907.6 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
85.29	-67.95	-67.45	0.30	-0.80	-13.00	-54.95
176.47	-72.06	-75.32	4.39	-1.13	-13.00	-59.06
369.50	-63.45	-67.15	5.69	-1.99	-13.00	-50.45
577.08	-67.09	-71.33	6.47	-2.23	-13.00	-54.09
737.13	-66.50	-71.77	7.38	-2.11	-13.00	-53.50
920.46	-64.25	-69.31	7.62	-2.56	-13.00	-51.25
3815.20	-52.25	-58.15	12.49	-6.59	-13.00	-39.25

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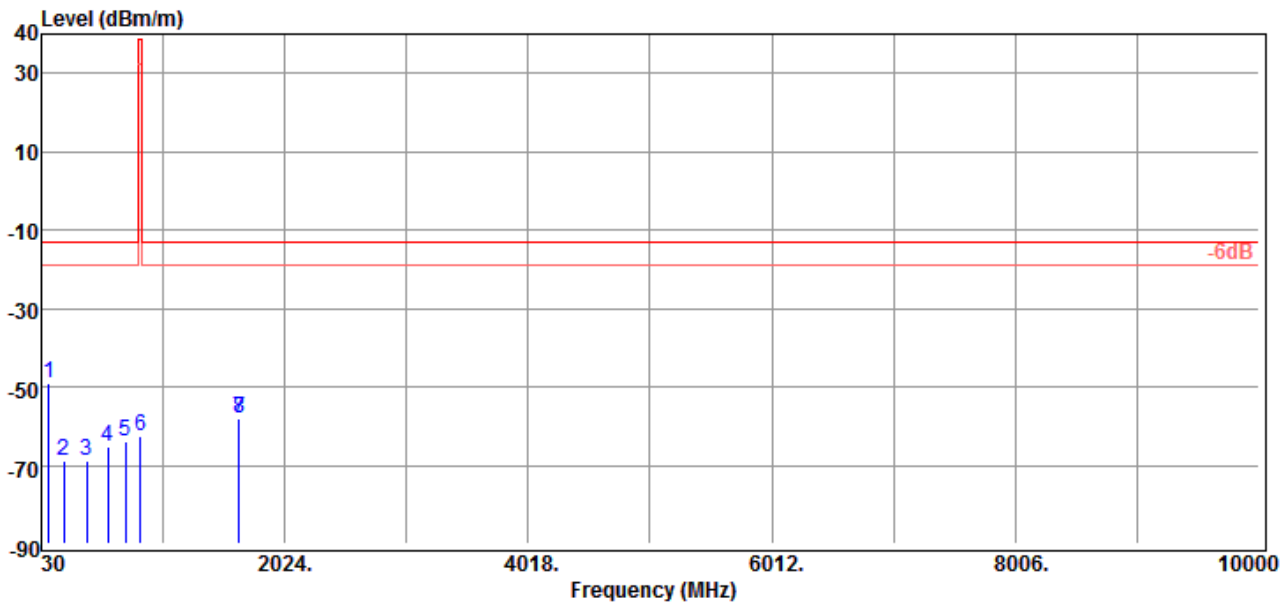
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Radiated Spurious Emission Measurement Result: WCDMA Band 5 Mode

Operation Mode	:WCDMA B5	Test Date	:2018-08-15
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E1	Antenna Pol.	:VERTICAL
Test Channel	:826.4 MHz	Engineer	:Enzo



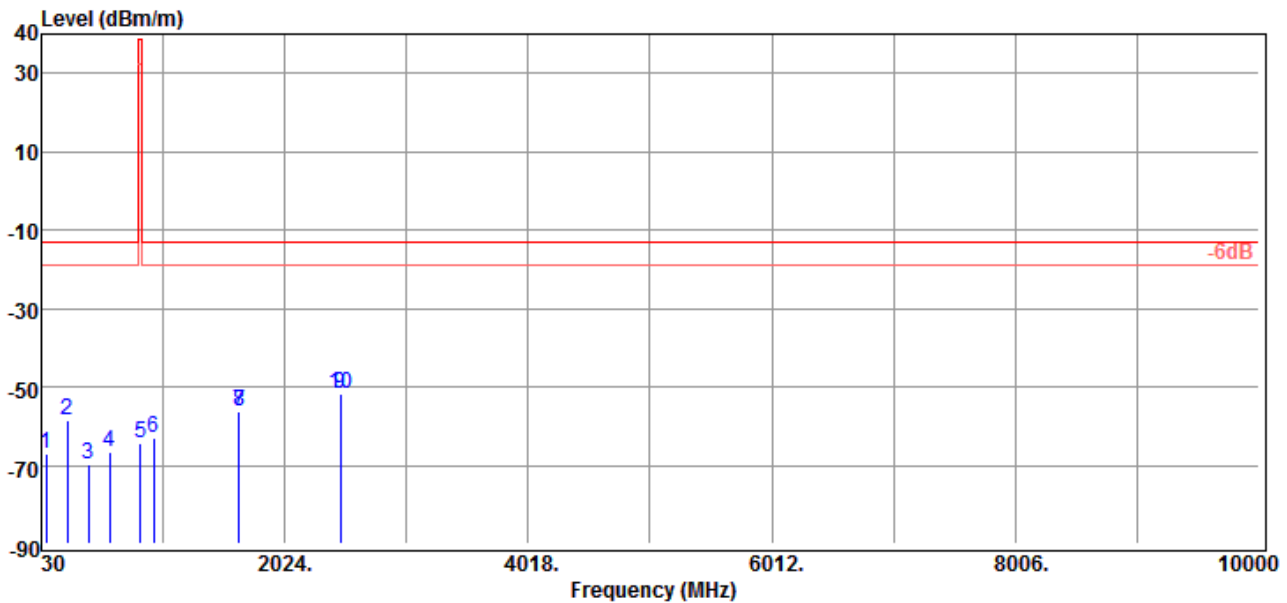
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
92.08	-49.00	-47.98	-0.20	-0.82	-13.00	-36.00
215.27	-68.69	-73.00	5.61	-1.30	-13.00	-55.69
402.48	-69.05	-72.59	5.58	-2.04	-13.00	-56.05
574.17	-65.40	-69.60	6.44	-2.24	-13.00	-52.40
721.61	-63.75	-68.91	7.35	-2.19	-13.00	-50.75
841.89	-62.58	-67.72	7.51	-2.37	-13.00	-49.58
1652.80	-58.26	-63.23	8.81	-3.84	-13.00	-45.26
1652.80	-58.26	-63.23	8.81	-3.84	-13.00	-45.26

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Operation Mode	:WCDMA B5	Test Date	:2018-08-15
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E1	Antenna Pol.	:HORIZONTAL
Test Channel	:826.4 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
68.80	-66.91	-66.55	0.36	-0.72	-13.00	-53.91
239.52	-58.40	-62.30	5.30	-1.40	-13.00	-45.40
418.00	-69.64	-73.33	5.74	-2.05	-13.00	-56.64
591.63	-66.41	-70.85	6.60	-2.16	-13.00	-53.41
838.01	-64.17	-69.31	7.52	-2.38	-13.00	-51.17
952.47	-63.08	-68.01	7.67	-2.74	-13.00	-50.08
1652.80	-56.45	-61.42	8.81	-3.84	-13.00	-43.45
1652.80	-56.45	-61.42	8.81	-3.84	-13.00	-43.45
2479.20	-51.90	-58.19	10.68	-4.39	-13.00	-38.90
2479.20	-51.90	-58.19	10.68	-4.39	-13.00	-38.90

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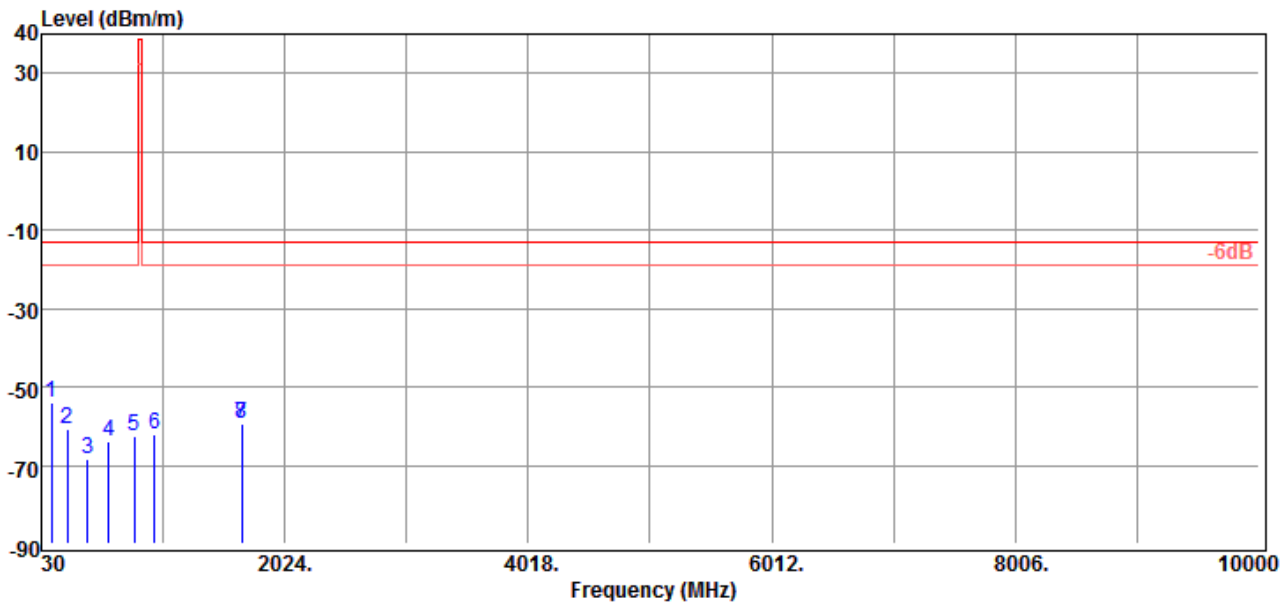
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Operation Mode	:WCDMA B5	Test Date	:2018-08-15
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E1	Antenna Pol.	:VERTICAL
Test Channel	:836.6 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
109.54	-53.96	-52.95	-0.12	-0.89	-13.00	-40.96
245.34	-60.68	-64.49	5.23	-1.42	-13.00	-47.68
410.24	-68.22	-71.84	5.66	-2.04	-13.00	-55.22
584.84	-64.10	-68.45	6.54	-2.19	-13.00	-51.10
792.42	-62.42	-67.59	7.55	-2.38	-13.00	-49.42
954.41	-62.01	-66.93	7.67	-2.75	-13.00	-49.01
1673.20	-59.50	-64.54	8.90	-3.86	-13.00	-46.50
1673.20	-59.50	-64.54	8.90	-3.86	-13.00	-46.50

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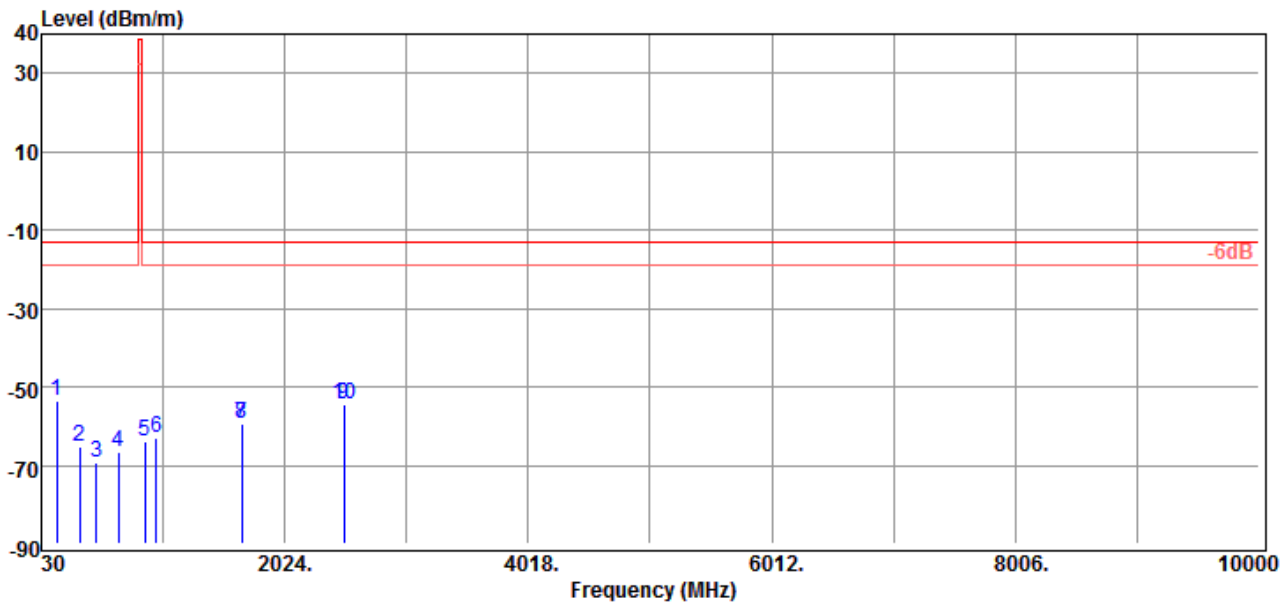
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Operation Mode	:WCDMA B5	Test Date	:2018-08-15
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E1	Antenna Pol.	:HORIZONTAL
Test Channel	:836.6 MHz	Engineer	:Enzo



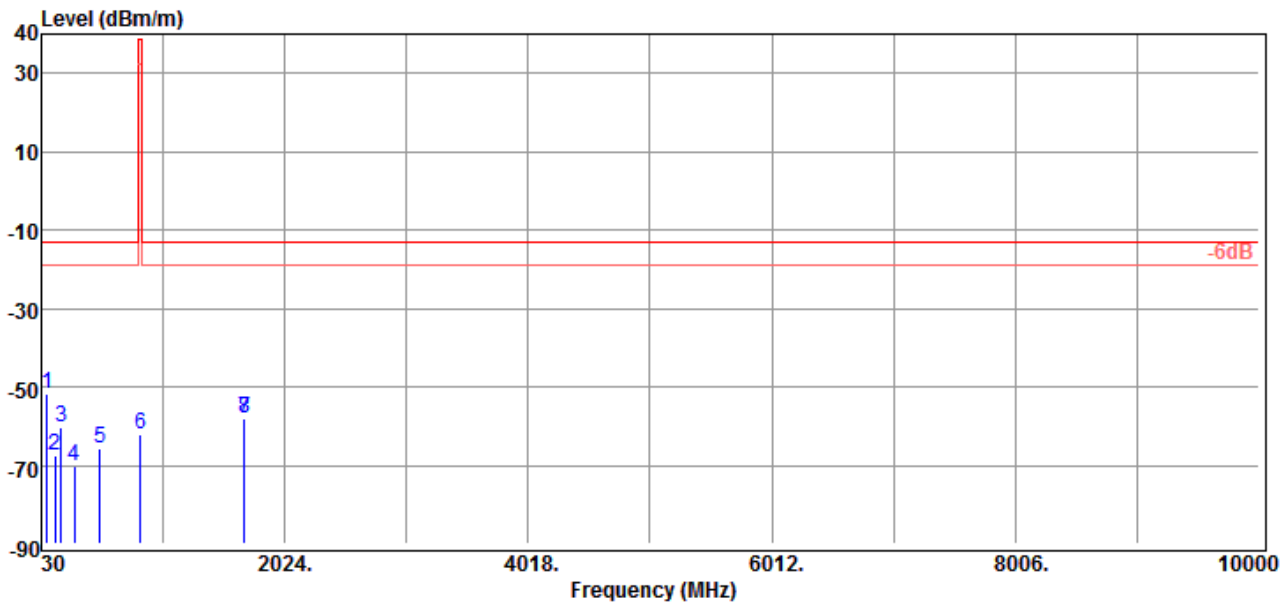
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
158.04	-53.78	-55.87	3.13	-1.04	-13.00	-40.78
347.19	-65.42	-69.28	5.79	-1.93	-13.00	-52.42
479.11	-69.10	-72.91	6.20	-2.39	-13.00	-56.10
661.47	-66.58	-71.07	6.97	-2.48	-13.00	-53.58
878.75	-63.80	-68.94	7.55	-2.41	-13.00	-50.80
970.90	-63.04	-67.92	7.72	-2.84	-13.00	-50.04
1673.20	-59.40	-64.44	8.90	-3.86	-13.00	-46.40
1673.20	-59.40	-64.44	8.90	-3.86	-13.00	-46.40
2509.80	-54.57	-60.89	10.71	-4.39	-13.00	-41.57
2509.80	-54.57	-60.89	10.71	-4.39	-13.00	-41.57

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Operation Mode	:WCDMA B5	Test Date	:2018-08-15
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E1	Antenna Pol.	:VERTICAL
Test Channel	:846.6 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
79.47	-51.58	-51.46	0.66	-0.78	-13.00	-38.58
144.46	-67.59	-68.81	2.21	-0.99	-13.00	-54.59
190.05	-60.37	-64.42	5.24	-1.19	-13.00	-47.37
301.60	-70.20	-74.42	5.85	-1.63	-13.00	-57.20
510.15	-65.86	-69.57	6.28	-2.57	-13.00	-52.86
842.86	-62.24	-67.38	7.51	-2.37	-13.00	-49.24
1693.20	-57.97	-63.06	8.98	-3.89	-13.00	-44.97
1693.20	-57.97	-63.06	8.98	-3.89	-13.00	-44.97

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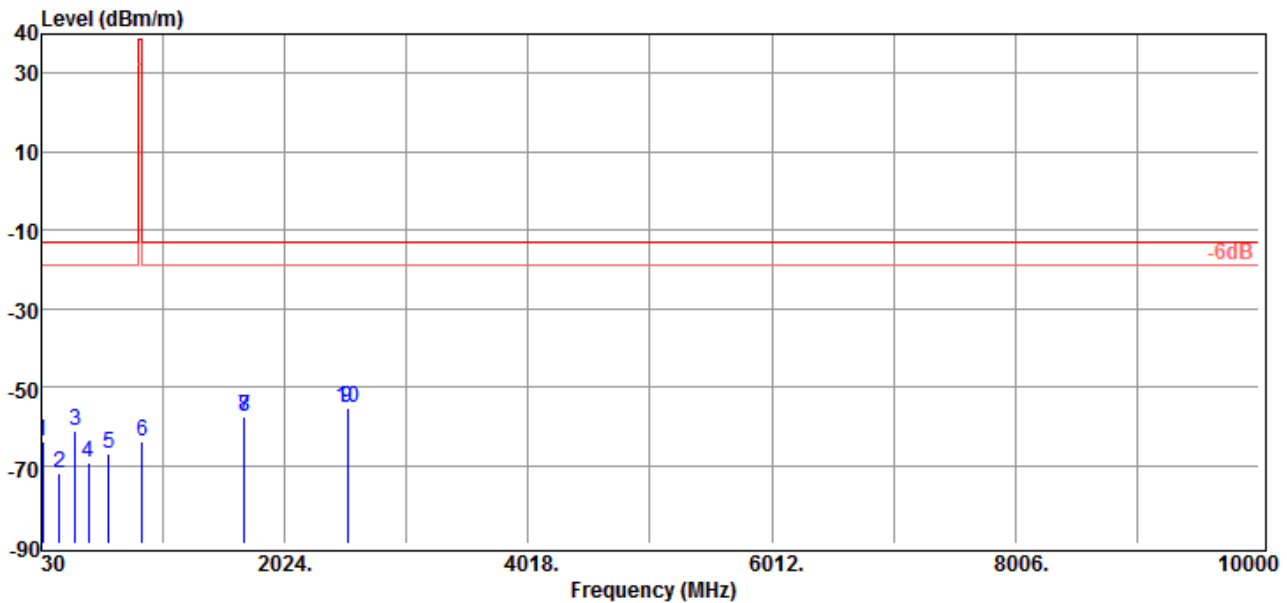
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Operation Mode	:WCDMA B5	Test Date	:2018-08-15
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E1	Antenna Pol.	:HORIZONTAL
Test Channel	:846.6 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
37.76	-63.76	-49.63	-13.57	-0.56	-13.00	-50.76
176.47	-72.06	-75.32	4.39	-1.13	-13.00	-59.06
308.39	-61.24	-65.40	5.84	-1.68	-13.00	-48.24
418.97	-69.35	-73.05	5.75	-2.05	-13.00	-56.35
584.84	-67.23	-71.58	6.54	-2.19	-13.00	-54.23
857.41	-64.13	-69.27	7.51	-2.37	-13.00	-51.13
1693.20	-57.52	-62.61	8.98	-3.89	-13.00	-44.52
1693.20	-57.52	-62.61	8.98	-3.89	-13.00	-44.52
2539.80	-55.39	-61.74	10.75	-4.40	-13.00	-42.39
2539.80	-55.39	-61.74	10.75	-4.40	-13.00	-42.39

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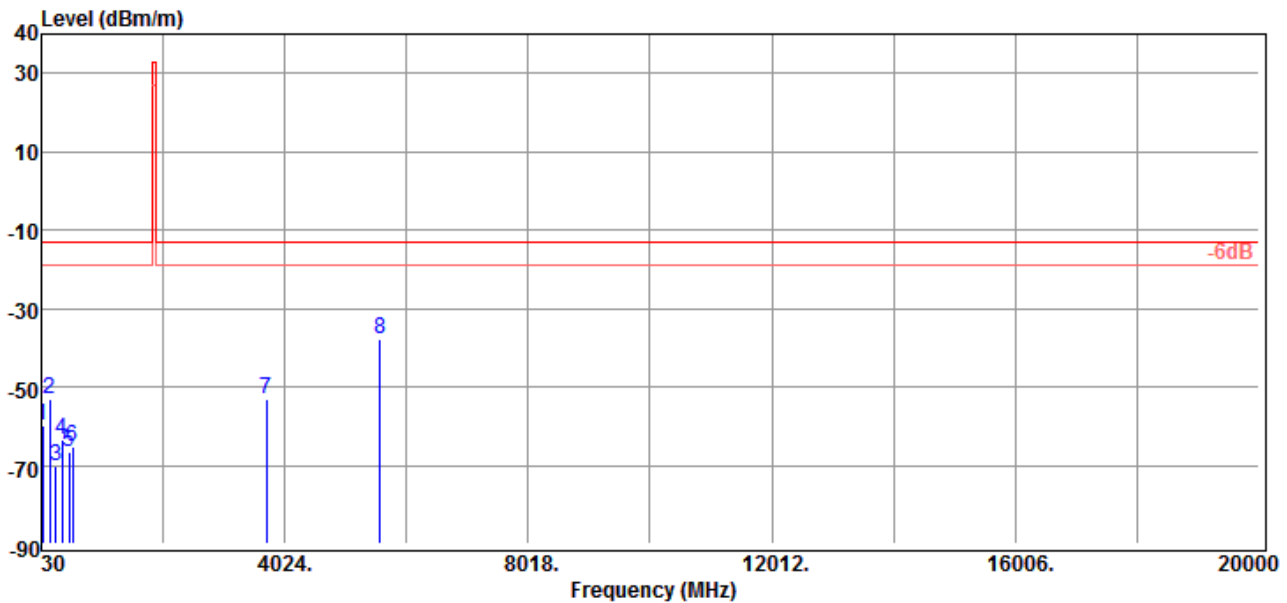
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Radiated Spurious Emission Measurement Result: LTE-Band 2 (The Worst Case)

Operation Mode	:LTE B2 20M QPSK RB1,0	Test Date	:2018-08-14
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E1	Antenna Pol.	:VERTICAL
Test Channel	:1860 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
56.19	-59.86	-56.98	-2.23	-0.65	-13.00	-46.86
163.86	-53.17	-55.64	3.54	-1.07	-13.00	-40.17
274.44	-70.21	-74.20	5.52	-1.53	-13.00	-57.21
367.56	-63.28	-67.00	5.70	-1.98	-13.00	-50.28
481.05	-66.38	-70.18	6.21	-2.41	-13.00	-53.38
546.04	-65.10	-68.96	6.23	-2.37	-13.00	-52.10
3720.00	-52.94	-58.66	12.44	-6.72	-13.00	-39.94
5580.00	-37.76	-44.29	13.02	-6.49	-13.00	-24.76

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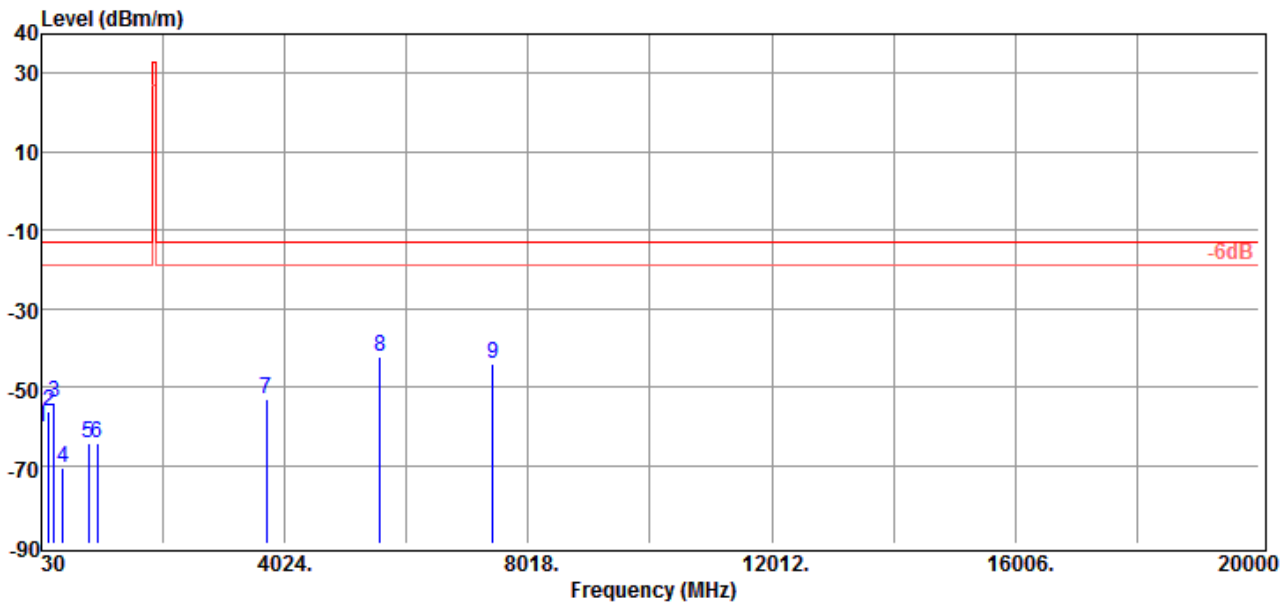
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Operation Mode	:LTE B2 20M QPSK RB1,0	Test Date	:2018-08-14
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E1	Antenna Pol.	:HORIZONTAL
Test Channel	:1860 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
33.88	-60.49	-43.36	-16.63	-0.50	-13.00	-47.49
156.10	-56.27	-58.23	2.99	-1.03	-13.00	-43.27
246.31	-54.21	-57.99	5.21	-1.43	-13.00	-41.21
389.87	-70.59	-74.17	5.60	-2.02	-13.00	-57.59
807.94	-64.24	-69.37	7.56	-2.43	-13.00	-51.24
941.80	-64.23	-69.20	7.65	-2.68	-13.00	-51.23
3720.00	-52.91	-58.63	12.44	-6.72	-13.00	-39.91
5580.00	-42.41	-48.94	13.02	-6.49	-13.00	-29.41
7440.00	-44.29	-48.38	11.38	-7.29	-13.00	-31.29

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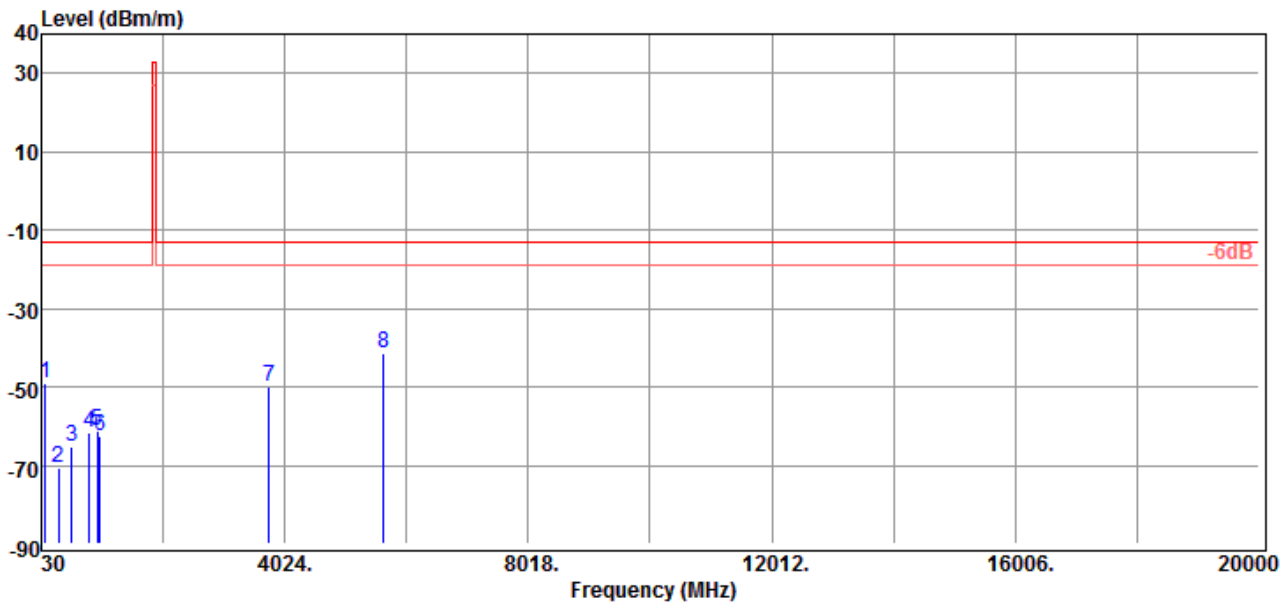
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Operation Mode	:LTE B2 20M QPSK RB1,0	Test Date	:2018-08-14
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E1	Antenna Pol.	:VERTICAL
Test Channel	:1880 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
92.08	-49.00	-47.98	-0.20	-0.82	-13.00	-36.00
317.12	-70.45	-74.55	5.83	-1.73	-13.00	-57.45
523.73	-65.48	-69.25	6.26	-2.49	-13.00	-52.48
814.73	-61.74	-66.87	7.55	-2.42	-13.00	-48.74
948.59	-61.31	-66.25	7.66	-2.72	-13.00	-48.31
985.45	-62.47	-67.33	7.77	-2.91	-13.00	-49.47
3760.00	-49.98	-55.77	12.46	-6.67	-13.00	-36.98
5640.00	-41.59	-48.02	13.03	-6.60	-13.00	-28.59

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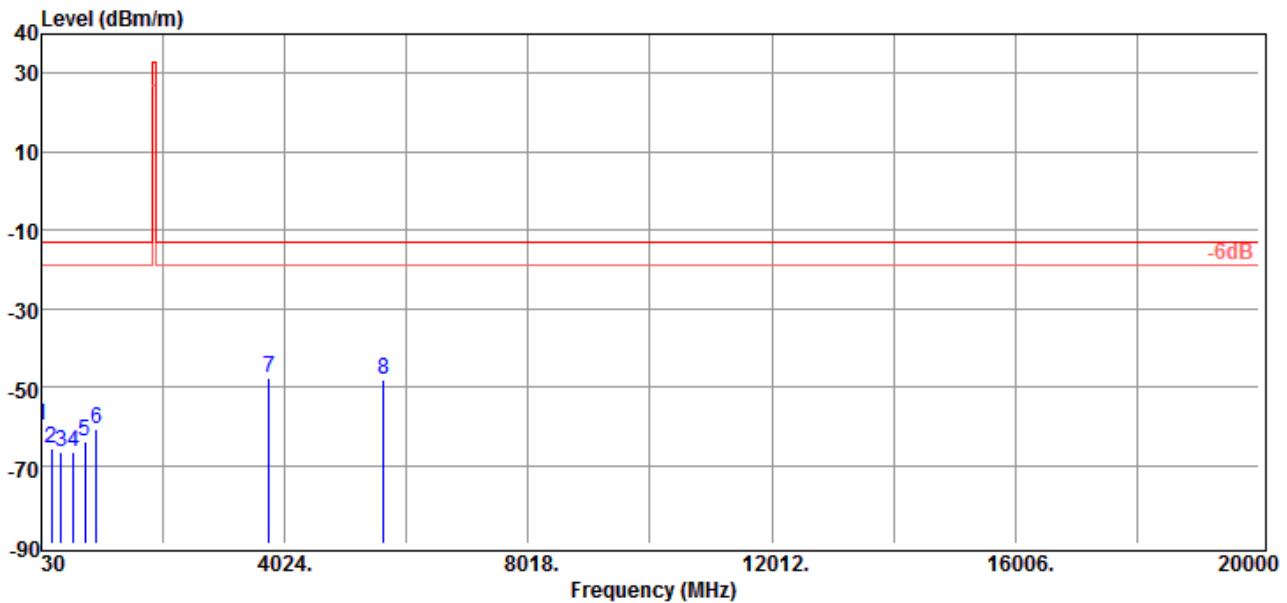
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Operation Mode	:LTE B2 20M QPSK RB1,0	Test Date	:2018-08-14
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E1	Antenna Pol.	:HORIZONTAL
Test Channel	:1880 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
31.94	-59.64	-40.88	-18.29	-0.47	-13.00	-46.64
189.08	-65.53	-69.53	5.19	-1.19	-13.00	-52.53
348.16	-66.45	-70.30	5.79	-1.94	-13.00	-53.45
552.83	-66.45	-70.36	6.25	-2.34	-13.00	-53.45
745.86	-64.00	-69.33	7.40	-2.07	-13.00	-51.00
935.01	-60.98	-65.98	7.64	-2.64	-13.00	-47.98
3760.00	-47.90	-53.69	12.46	-6.67	-13.00	-34.90
5640.00	-47.94	-54.37	13.03	-6.60	-13.00	-34.94

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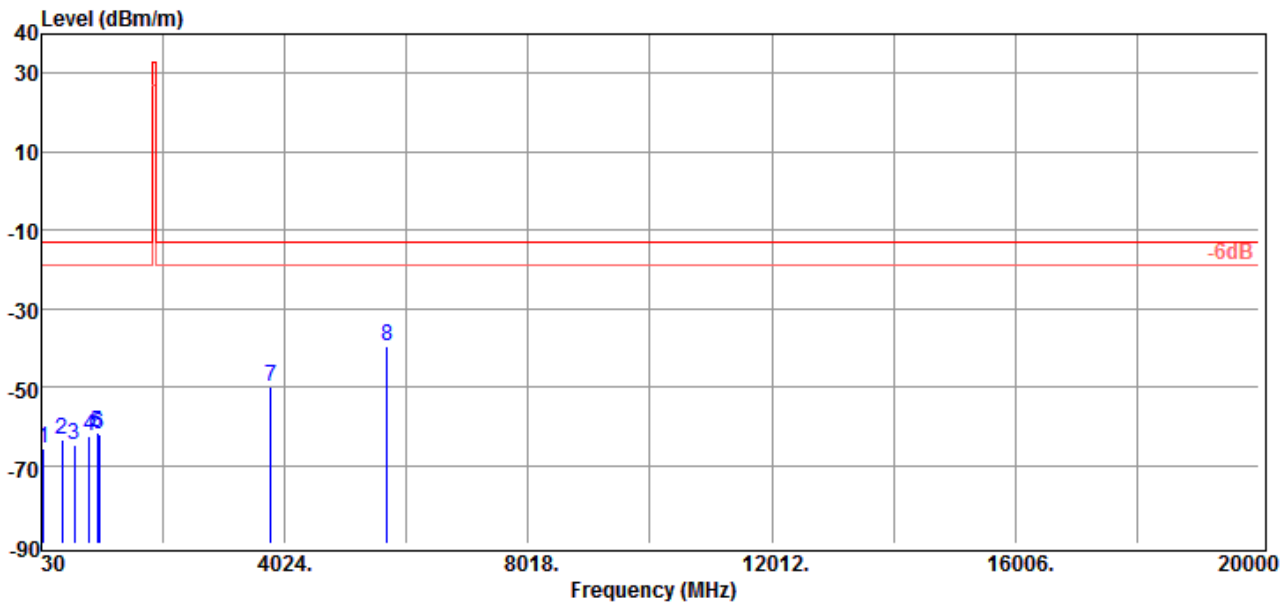
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Operation Mode	:LTE B2 20M QPSK RB1,0	Test Date	:2018-08-14
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E1	Antenna Pol.	:VERTICAL
Test Channel	:1900 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
64.92	-65.65	-64.82	-0.14	-0.69	-13.00	-52.65
368.53	-63.24	-66.96	5.70	-1.98	-13.00	-50.24
577.08	-64.73	-68.97	6.47	-2.23	-13.00	-51.73
820.55	-62.63	-67.76	7.54	-2.41	-13.00	-49.63
944.71	-61.86	-66.81	7.65	-2.70	-13.00	-48.86
982.54	-62.27	-67.13	7.76	-2.90	-13.00	-49.27
3800.00	-50.16	-56.03	12.48	-6.61	-13.00	-37.16
5700.00	-39.55	-45.87	13.04	-6.72	-13.00	-26.55

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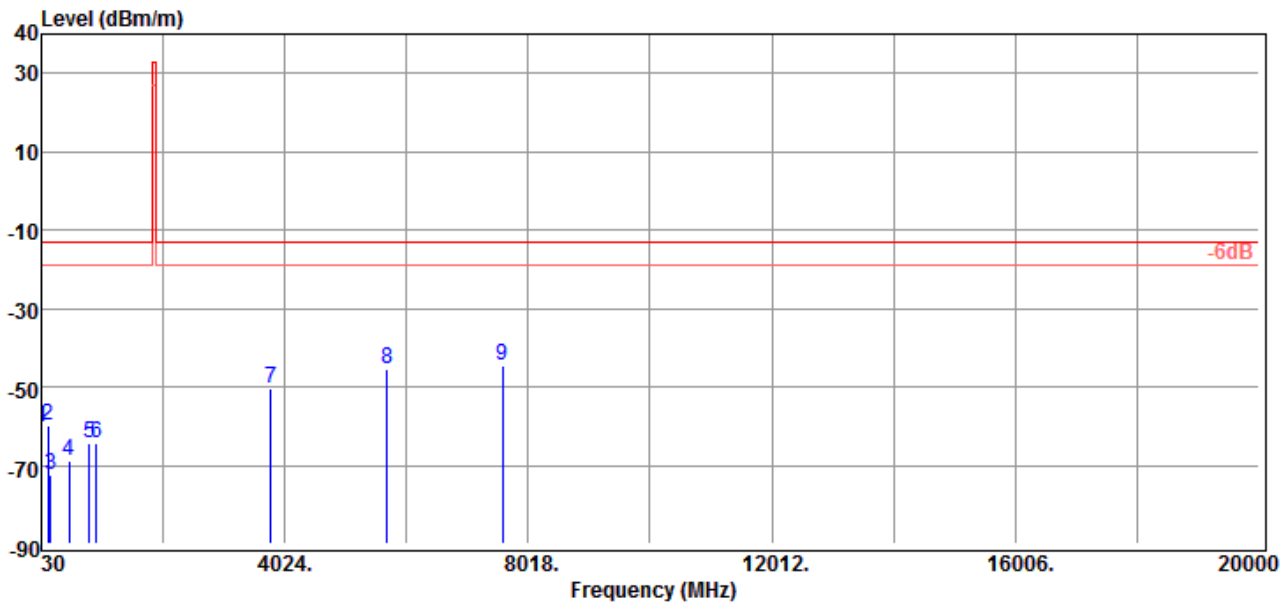
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Operation Mode	:LTE B2 20M QPSK RB1,0	Test Date	:2018-08-14
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E1	Antenna Pol.	:HORIZONTAL
Test Channel	:1900 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
33.88	-60.49	-43.36	-16.63	-0.50	-13.00	-47.49
133.79	-59.87	-60.48	1.57	-0.96	-13.00	-46.87
179.38	-72.55	-75.99	4.58	-1.14	-13.00	-59.55
487.84	-68.68	-72.44	6.24	-2.48	-13.00	-55.68
817.64	-64.33	-69.46	7.54	-2.41	-13.00	-51.33
926.28	-64.58	-69.62	7.63	-2.59	-13.00	-51.58
3800.00	-50.31	-56.18	12.48	-6.61	-13.00	-37.31
5700.00	-45.39	-51.71	13.04	-6.72	-13.00	-32.39
7600.00	-44.61	-48.51	11.30	-7.40	-13.00	-31.61

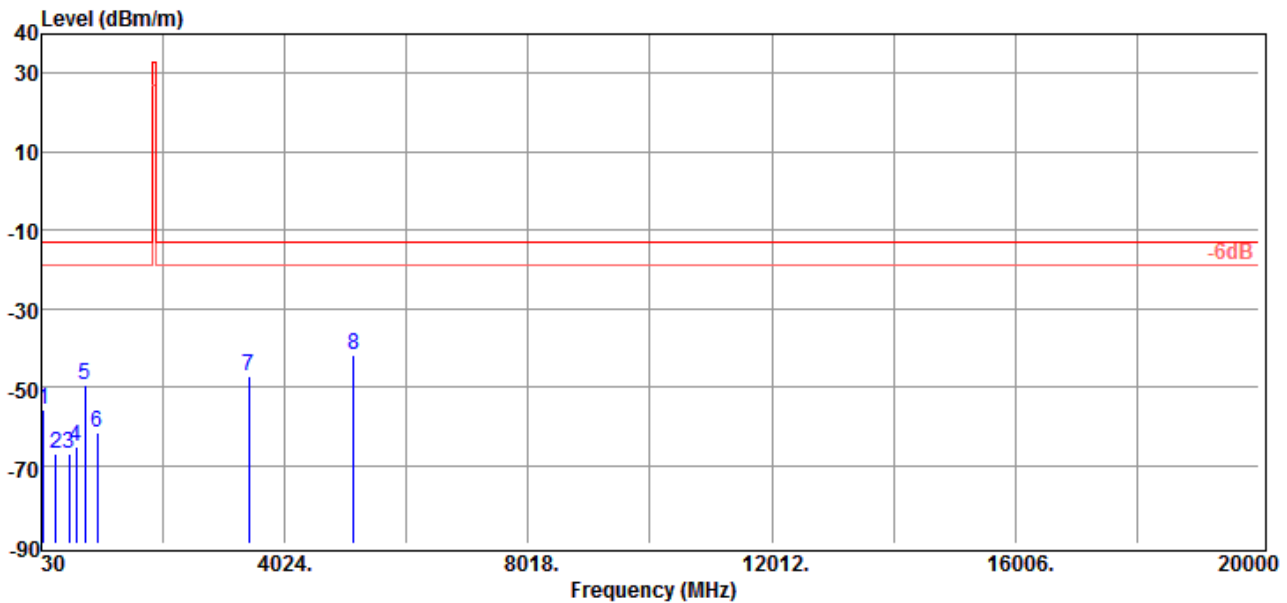
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Radiated Spurious Emission Measurement Result: LTE-Band 4 (The Worst Case)

Operation Mode	:LTE B4 20M QPSK RB1,0	Test Date	:2018-08-14
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E1	Antenna Pol.	:VERTICAL
Test Channel	:1720 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
70.74	-55.72	-55.51	0.52	-0.73	-13.00	-42.72
273.47	-67.10	-71.08	5.50	-1.52	-13.00	-54.10
485.90	-66.87	-70.64	6.23	-2.46	-13.00	-53.87
596.48	-65.08	-69.58	6.64	-2.14	-13.00	-52.08
745.86	-49.37	-54.70	7.40	-2.07	-13.00	-36.37
940.83	-61.65	-66.62	7.65	-2.68	-13.00	-48.65
3440.00	-47.23	-52.72	12.18	-6.69	-13.00	-34.23
5160.00	-41.70	-47.68	12.66	-6.68	-13.00	-28.70

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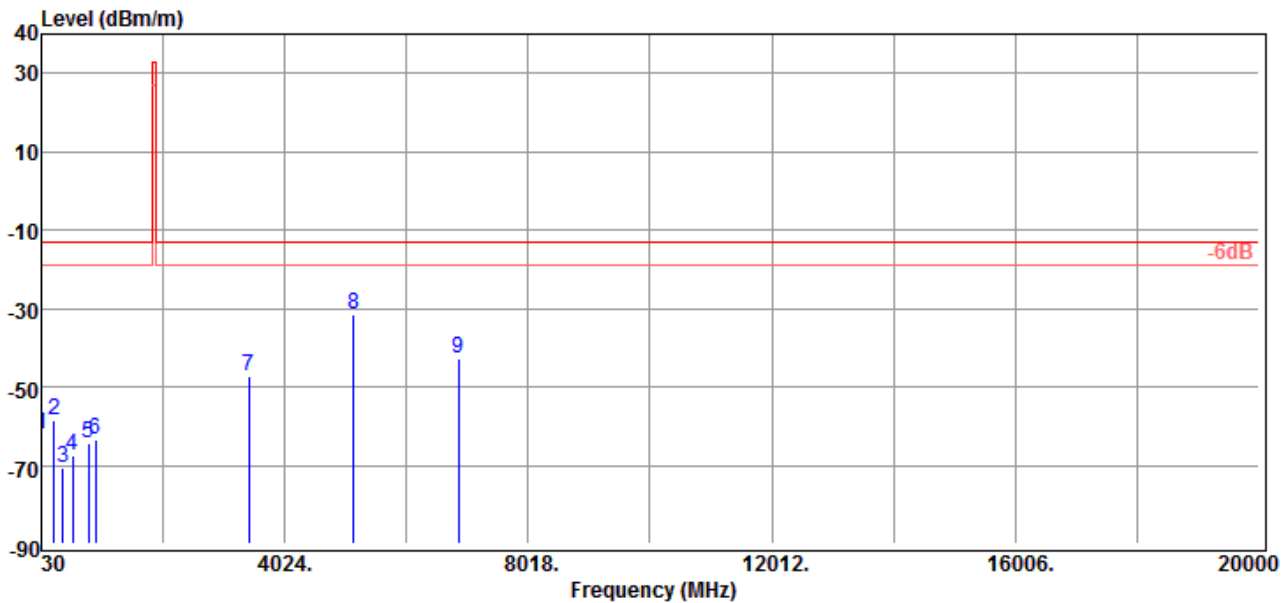
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Operation Mode	:LTE B4 20M QPSK RB1,0	Test Date	:2018-08-14
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E1	Antenna Pol.	:HORIZONTAL
Test Channel	:1720 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.79	-62.24	-47.38	-14.31	-0.55	-13.00	-49.24
232.73	-58.49	-62.50	5.38	-1.37	-13.00	-45.49
385.99	-70.88	-74.48	5.61	-2.01	-13.00	-57.88
541.19	-67.41	-71.24	6.23	-2.40	-13.00	-54.41
801.15	-64.42	-69.55	7.57	-2.44	-13.00	-51.42
915.61	-63.47	-68.55	7.61	-2.53	-13.00	-50.47
3440.00	-47.18	-52.67	12.18	-6.69	-13.00	-34.18
5160.00	-31.35	-37.33	12.66	-6.68	-13.00	-18.35
6880.00	-42.96	-47.76	12.08	-7.28	-13.00	-29.96

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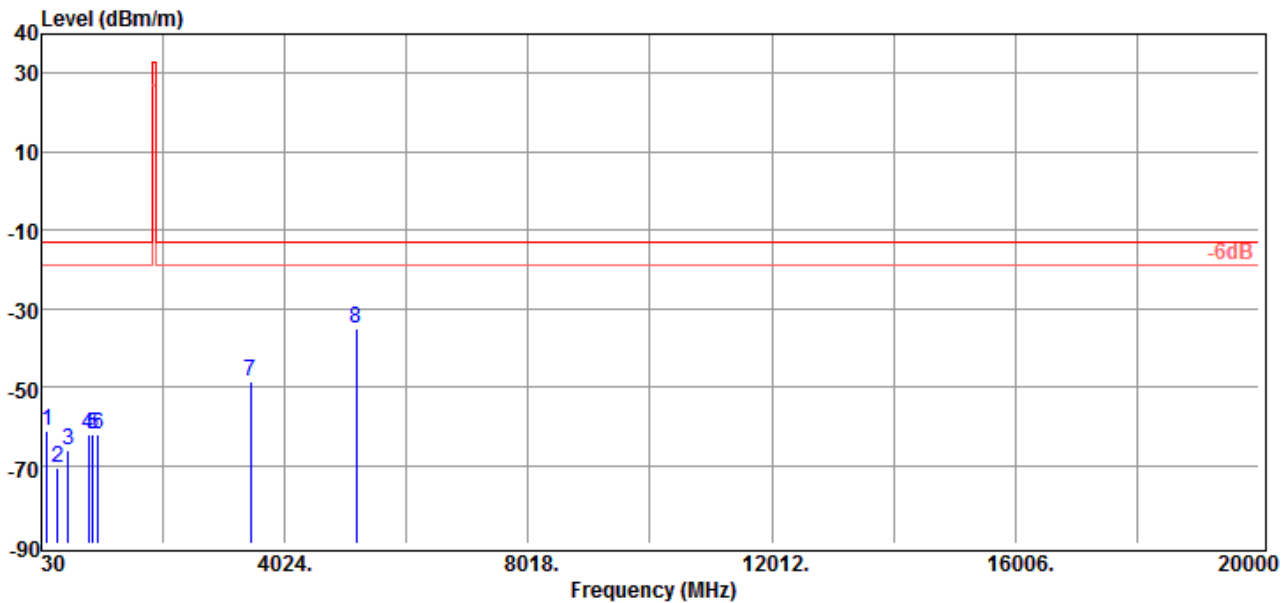
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Operation Mode	:LTE B4 20M QPSK RB1,0	Test Date	:2018-08-14
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E1	Antenna Pol.	:VERTICAL
Test Channel	:1732.5 MHz	Engineer	:Enzo



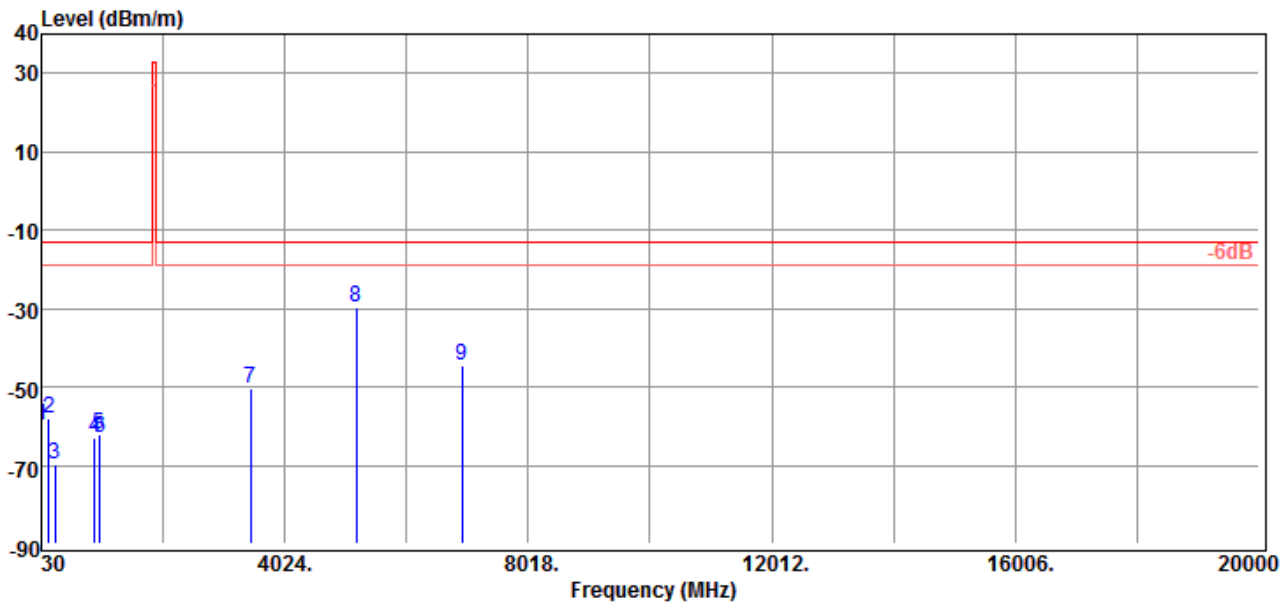
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
127.00	-61.26	-61.45	1.13	-0.94	-13.00	-48.26
302.57	-70.67	-74.88	5.85	-1.64	-13.00	-57.67
472.32	-65.95	-69.81	6.17	-2.31	-13.00	-52.95
802.12	-62.20	-67.33	7.57	-2.44	-13.00	-49.20
881.66	-62.09	-67.24	7.56	-2.41	-13.00	-49.09
967.02	-62.07	-66.96	7.71	-2.82	-13.00	-49.07
3465.00	-48.72	-54.11	12.23	-6.84	-13.00	-35.72
5197.50	-35.09	-41.16	12.70	-6.63	-13.00	-22.09

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Operation Mode	:LTE B4 20M QPSK RB1,0	Test Date	:2018-08-14
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E1	Antenna Pol.	:HORIZONTAL
Test Channel	:1732.5 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
31.94	-59.64	-40.88	-18.29	-0.47	-13.00	-46.64
152.22	-58.04	-59.73	2.70	-1.01	-13.00	-45.04
260.86	-69.79	-73.64	5.33	-1.48	-13.00	-56.79
910.76	-63.19	-68.30	7.61	-2.50	-13.00	-50.19
969.93	-62.09	-66.98	7.72	-2.83	-13.00	-49.09
988.36	-63.02	-67.87	7.78	-2.93	-13.00	-50.02
3465.00	-50.60	-55.99	12.23	-6.84	-13.00	-37.60
5197.50	-29.73	-35.80	12.70	-6.63	-13.00	-16.73
6930.00	-44.50	-49.30	12.04	-7.24	-13.00	-31.50

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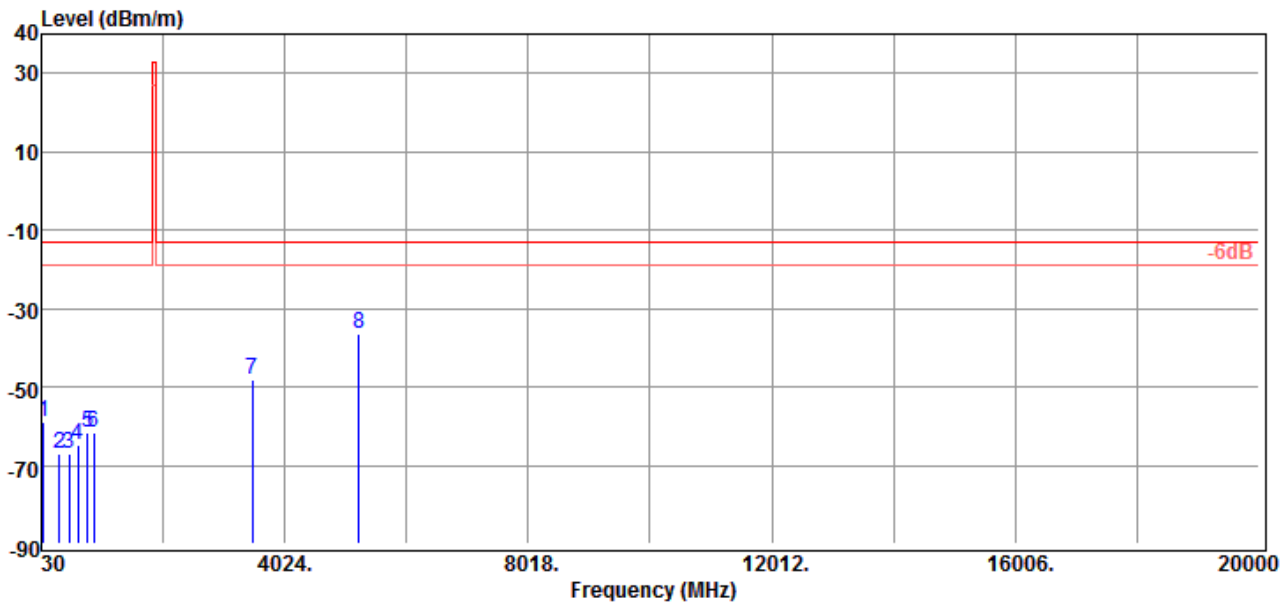
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Operation Mode	:LTE B4 20M QPSK RB1,0	Test Date	:2018-08-14
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E1	Antenna Pol.	:VERTICAL
Test Channel	:1745 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
60.07	-58.87	-57.40	-0.82	-0.65	-13.00	-45.87
330.70	-66.92	-70.91	5.81	-1.82	-13.00	-53.92
485.90	-66.87	-70.64	6.23	-2.46	-13.00	-53.87
631.40	-64.80	-69.22	6.80	-2.38	-13.00	-51.80
790.48	-61.70	-66.87	7.54	-2.37	-13.00	-48.70
893.30	-61.67	-66.82	7.58	-2.43	-13.00	-48.67
3490	-48.31	-53.61	12.29	-6.99	-13.00	-35.31
5235	-36.40	-42.56	12.75	-6.59	-13.00	-23.40

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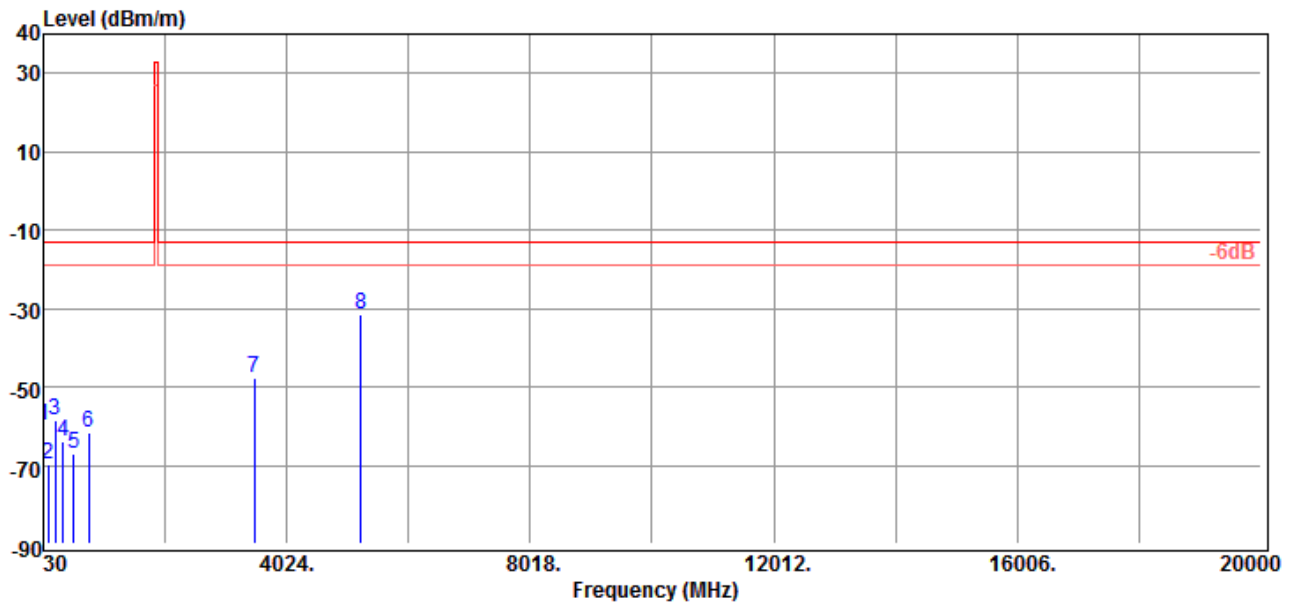
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Operation Mode	:LTE B4 20M QPSK RB1,0	Test Date	:2018-08-14
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E1	Antenna Pol.	:HORIZONTAL
Test Channel	:1745 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
31.94	-59.64	-40.88	-18.29	-0.47	-13.00	-46.64
107.60	-69.91	-68.75	-0.27	-0.89	-13.00	-56.91
222.06	-58.33	-62.52	5.52	-1.33	-13.00	-45.33
354.95	-63.94	-67.74	5.76	-1.96	-13.00	-50.94
524.70	-66.95	-70.71	6.25	-2.49	-13.00	-53.95
772.05	-61.83	-67.09	7.48	-2.22	-13.00	-48.83
3490	-47.82	-53.12	12.29	-6.99	-13.00	-34.82
5235	-31.41	-37.57	12.75	-6.59	-13.00	-18.41

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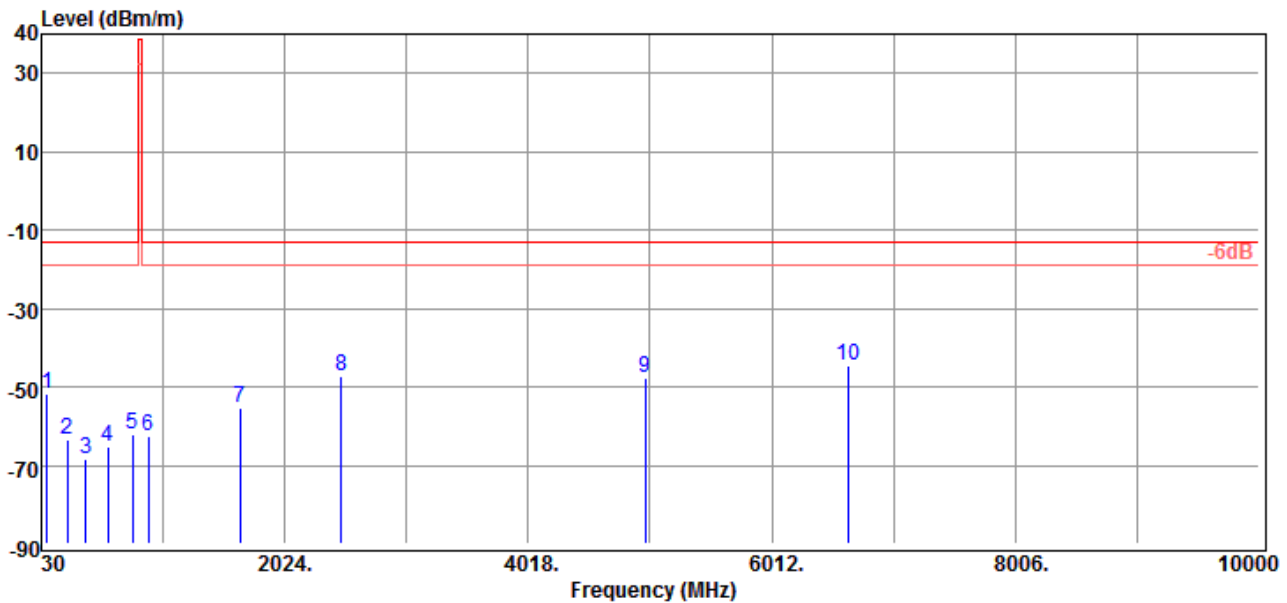
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Radiated Spurious Emission Measurement Result: LTE-Band 5 (The Worst Case)

Operation Mode	:LTE B5 10M QPSK RB1,0	Test Date	:2018-08-14
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:829 MHz	Engineer	:Enzo



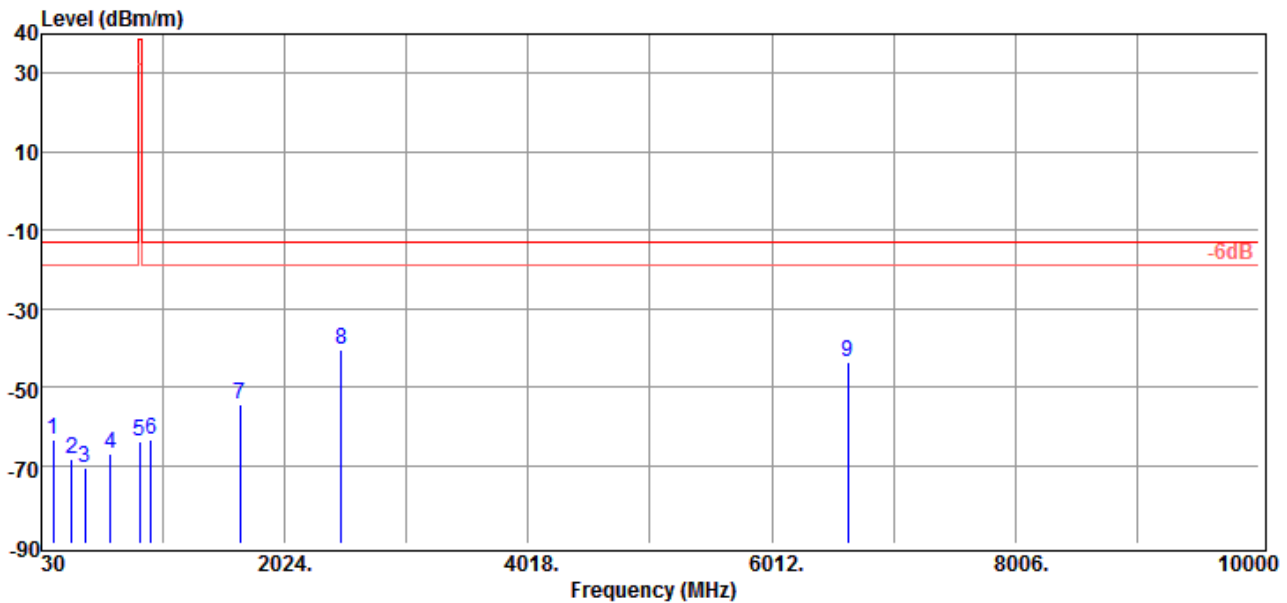
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
78.50	-51.68	-51.56	0.65	-0.77	-13.00	-38.68
240.49	-63.25	-67.13	5.28	-1.40	-13.00	-50.25
393.75	-68.19	-71.74	5.58	-2.03	-13.00	-55.19
578.05	-65.26	-69.52	6.48	-2.22	-13.00	-52.26
779.81	-62.20	-67.43	7.51	-2.28	-13.00	-49.20
907.85	-62.47	-67.58	7.60	-2.49	-13.00	-49.47
1658.00	-55.52	-60.51	8.83	-3.84	-13.00	-42.52
2487.00	-47.21	-53.51	10.69	-4.39	-13.00	-34.21
4974.00	-47.66	-53.35	12.50	-6.81	-13.00	-34.66
6632.00	-44.74	-49.52	12.22	-7.44	-13.00	-31.74

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Operation Mode	:LTE B5 10M QPSK RB1,0	Test Date	:2018-08-14
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E1	Antenna Pol.	:HORIZONTAL
Test Channel	:829 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
129.91	-63.40	-63.77	1.32	-0.95	-13.00	-50.40
280.26	-68.48	-72.53	5.60	-1.55	-13.00	-55.48
388.90	-70.82	-74.40	5.60	-2.02	-13.00	-57.82
595.51	-67.25	-71.74	6.63	-2.14	-13.00	-54.25
836.07	-63.76	-68.90	7.52	-2.38	-13.00	-50.76
927.25	-63.53	-68.56	7.63	-2.60	-13.00	-50.53
1658.00	-54.26	-59.25	8.83	-3.84	-13.00	-41.26
2487.00	-40.39	-46.69	10.69	-4.39	-13.00	-27.39
6632.00	-43.57	-48.35	12.22	-7.44	-13.00	-30.57

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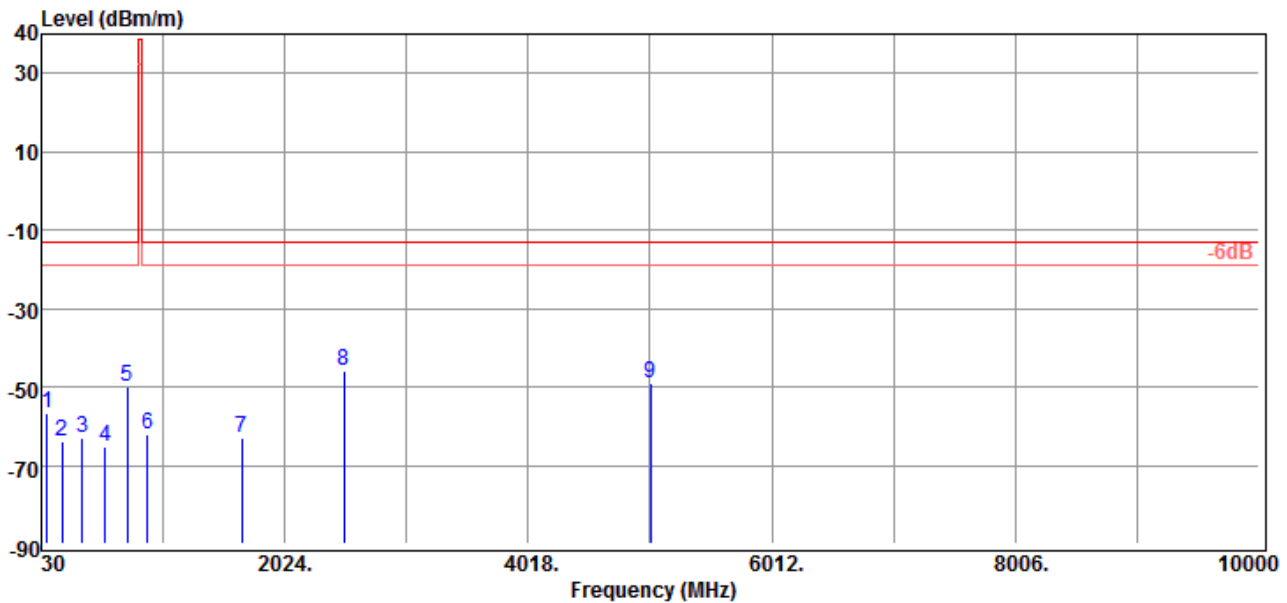
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Operation Mode	:LTE B5 10M QPSK RB1,0	Test Date	:2018-08-14
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E1	Antenna Pol.	:VERTICAL
Test Channel	:836.5 MHz	Engineer	:Enzo



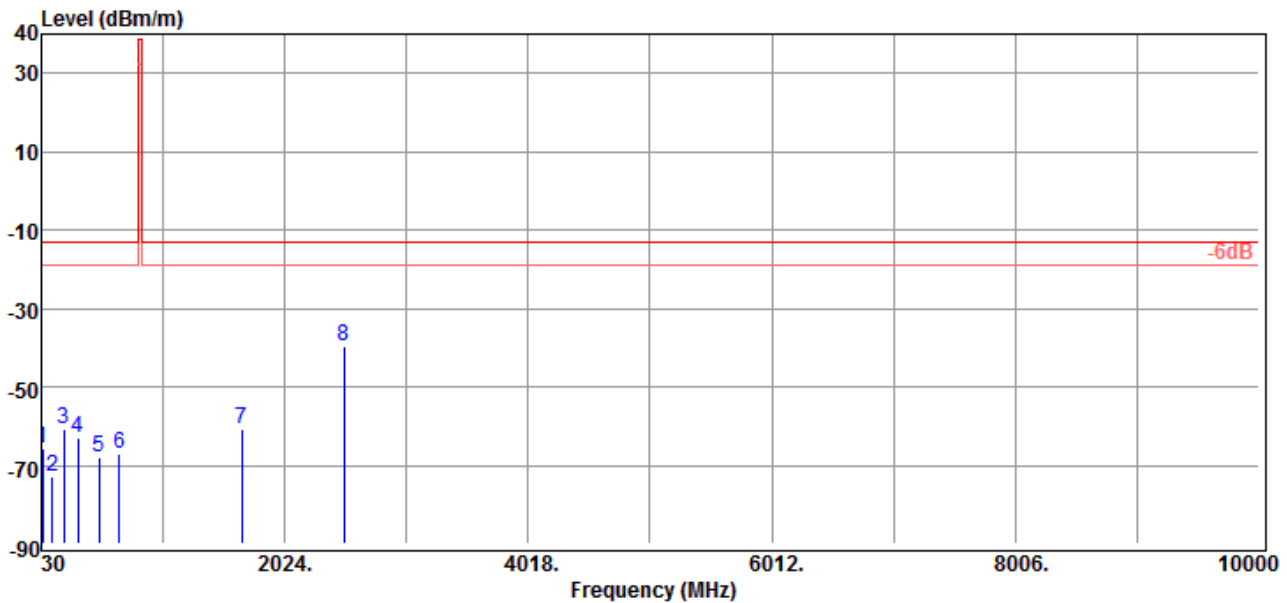
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
76.56	-56.83	-56.69	0.62	-0.76	-13.00	-43.83
200.72	-63.73	-68.31	5.82	-1.24	-13.00	-50.73
363.68	-62.94	-66.69	5.72	-1.97	-13.00	-49.94
549.92	-65.30	-69.17	6.22	-2.35	-13.00	-52.30
736.16	-49.85	-55.11	7.38	-2.12	-13.00	-36.85
896.21	-61.97	-67.12	7.58	-2.43	-13.00	-48.97
1673.00	-62.87	-67.91	8.90	-3.86	-13.00	-49.87
2509.50	-45.80	-52.12	10.71	-4.39	-13.00	-32.80
5019.00	-49.11	-54.82	12.52	-6.81	-13.00	-36.11

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Operation Mode	:LTE B5 10M QPSK RB1,0	Test Date	:2018-08-14
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E1	Antenna Pol.	:HORIZONTAL
Test Channel	:836.5 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
41.64	-65.56	-54.30	-10.65	-0.61	-13.00	-52.56
120.21	-72.97	-72.71	0.66	-0.92	-13.00	-59.97
217.21	-60.84	-65.12	5.59	-1.31	-13.00	-47.84
329.73	-62.93	-66.92	5.81	-1.82	-13.00	-49.93
504.33	-68.17	-71.85	6.28	-2.60	-13.00	-55.17
670.20	-66.96	-71.57	7.05	-2.44	-13.00	-53.96
1673.00	-60.65	-65.69	8.90	-3.86	-13.00	-47.65
2509.50	-39.65	-45.97	10.71	-4.39	-13.00	-26.65

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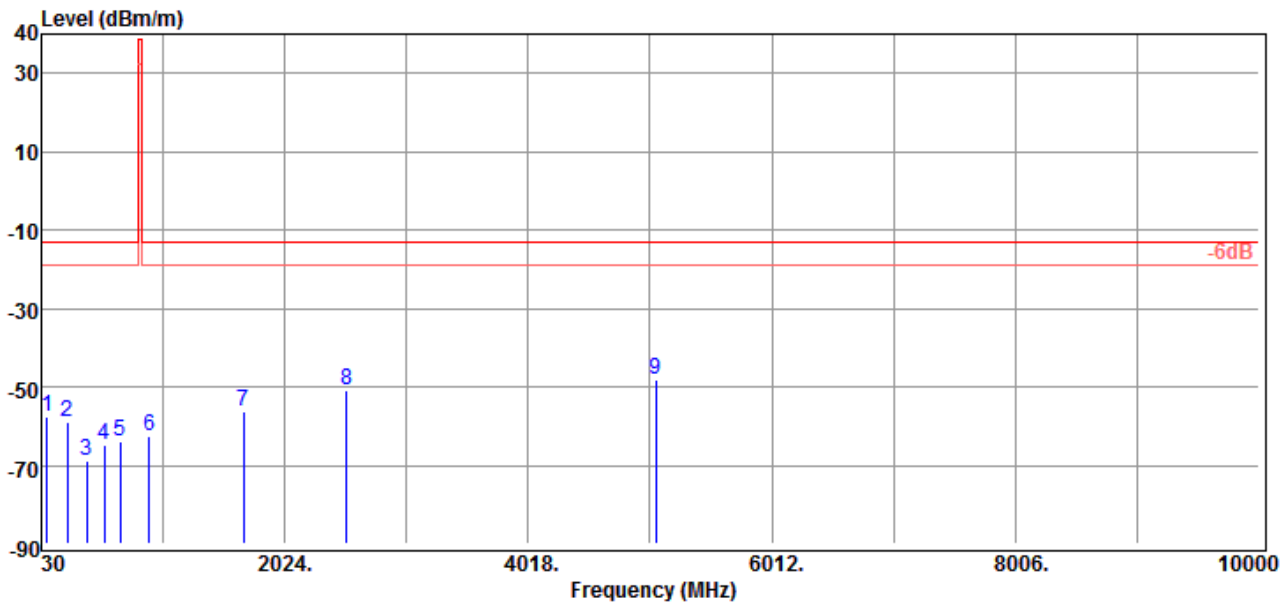
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Operation Mode	:LTE B5 10M QPSK RB1,0	Test Date	:2018-08-14
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E1	Antenna Pol.	:VERTICAL
Test Channel	:844 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
75.59	-57.44	-57.28	0.60	-0.76	-13.00	-44.44
241.46	-59.03	-62.89	5.27	-1.41	-13.00	-46.03
399.57	-68.75	-72.26	5.55	-2.04	-13.00	-55.75
547.98	-64.86	-68.72	6.22	-2.36	-13.00	-51.86
676.02	-64.11	-68.80	7.10	-2.41	-13.00	-51.11
910.76	-62.74	-67.85	7.61	-2.50	-13.00	-49.74
1688.00	-56.25	-61.33	8.96	-3.88	-13.00	-43.25
2532.00	-50.74	-57.08	10.74	-4.40	-13.00	-37.74
5064.00	-48.28	-54.08	12.57	-6.77	-13.00	-35.28

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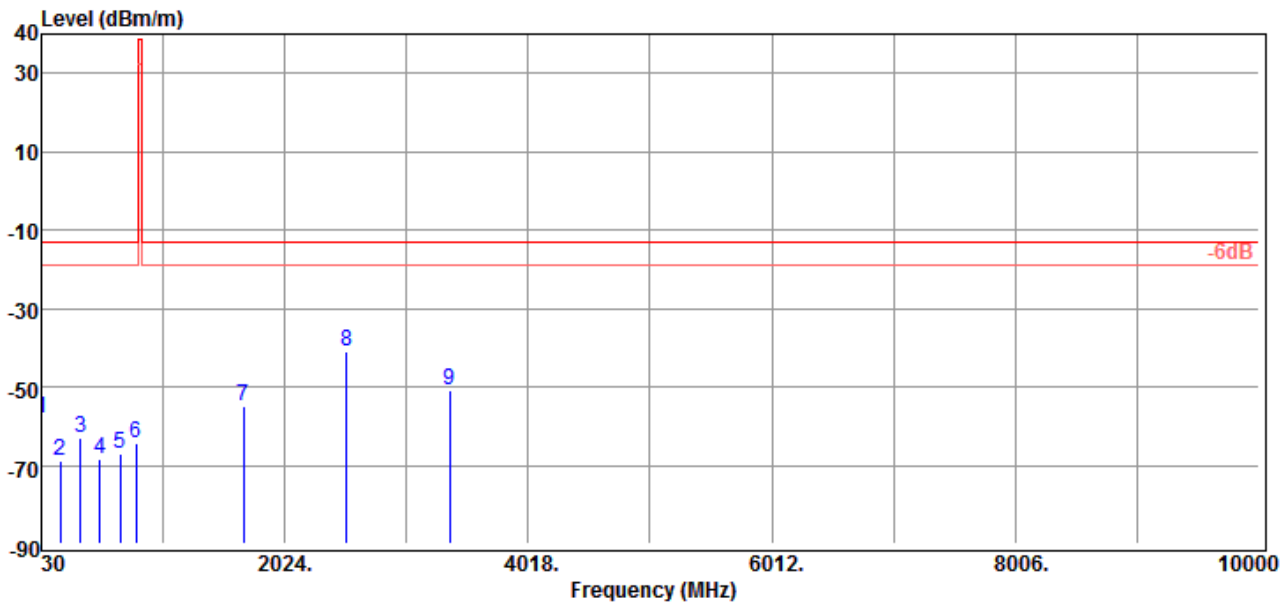
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Operation Mode	:LTE B5 10M QPSK RB1,0	Test Date	:2018-08-14
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E1	Antenna Pol.	:HORIZONTAL
Test Channel	:844 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
30.00	-57.93	-37.44	-20.05	-0.44	-13.00	-44.93
185.20	-68.74	-72.52	4.95	-1.17	-13.00	-55.74
350.10	-63.08	-66.92	5.79	-1.95	-13.00	-50.08
513.06	-68.43	-72.15	6.27	-2.55	-13.00	-55.43
676.99	-66.95	-71.65	7.11	-2.41	-13.00	-53.95
802.12	-64.26	-69.39	7.57	-2.44	-13.00	-51.26
1688.00	-54.97	-60.05	8.96	-3.88	-13.00	-41.97
2532.00	-40.90	-47.24	10.74	-4.40	-13.00	-27.90
3376.00	-50.83	-56.50	12.07	-6.40	-13.00	-37.83

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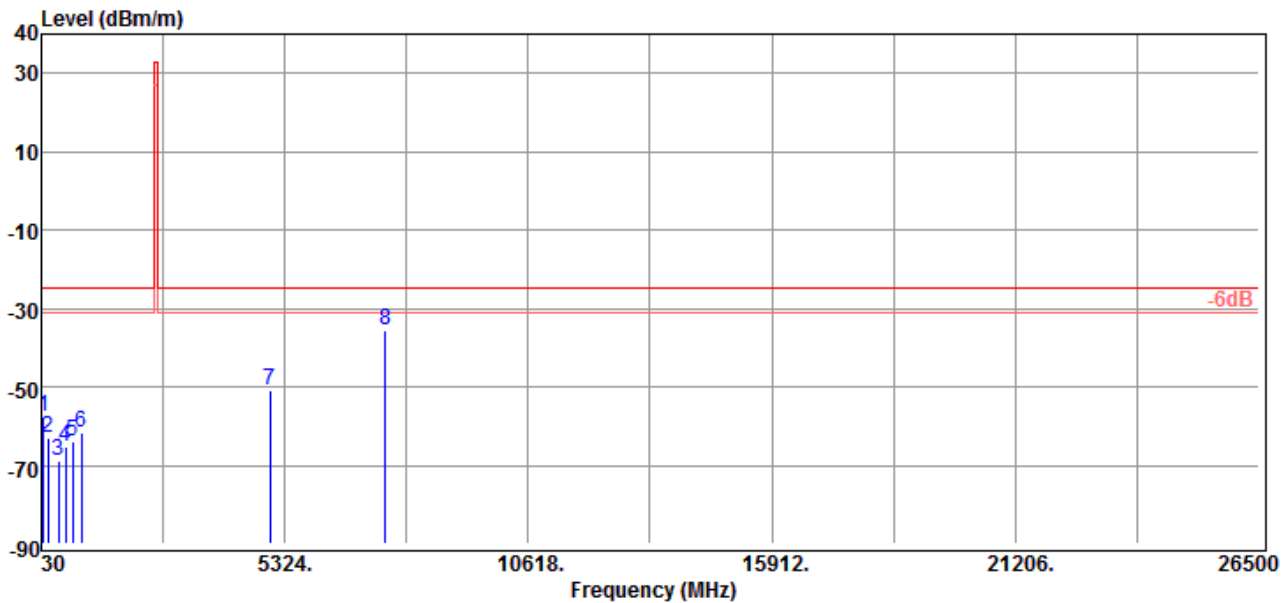
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Radiated Spurious Emission Measurement Result: LTE-Band 7 (The Worst Case)

Operation Mode	:LTE B7 20M QPSK RB1,0	Test Date	:2018-08-14
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E1	Antenna Pol.	:VERTICAL
Test Channel	:2510 MHz	Engineer	:Enzo



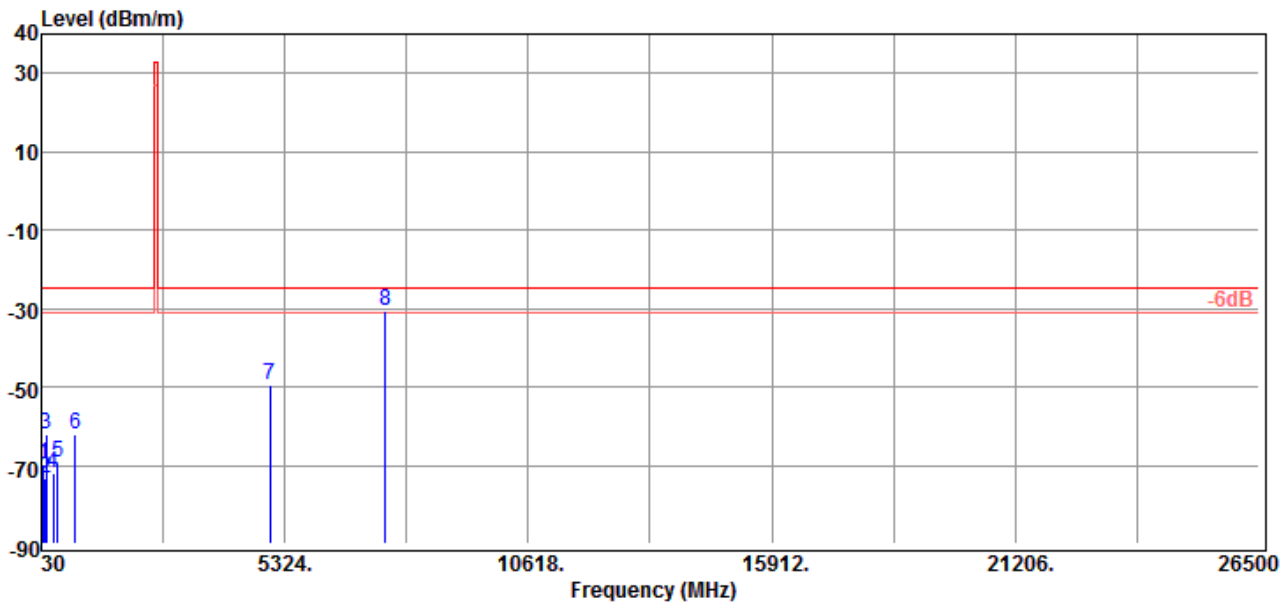
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
75.59	-57.44	-57.28	0.60	-0.76	-13.00	-44.44
177.44	-62.87	-66.20	4.46	-1.13	-13.00	-49.87
405.39	-68.74	-72.31	5.61	-2.04	-13.00	-55.74
549.92	-65.30	-69.17	6.22	-2.35	-13.00	-52.30
712.88	-63.69	-68.80	7.34	-2.23	-13.00	-50.69
903.00	-61.56	-66.69	7.59	-2.46	-13.00	-48.56
5020.00	-50.81	-56.50	12.51	-6.82	-25.00	-25.81
7530.00	-35.58	-39.57	11.30	-7.31	-25.00	-10.58

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Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E1	Antenna Pol.	:HORIZONTAL
Test Channel	:2510 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
69.77	-69.66	-69.41	0.48	-0.73	-13.00	-56.66
112.45	-73.56	-72.76	0.10	-0.90	-13.00	-60.56
138.64	-61.94	-62.84	1.87	-0.97	-13.00	-48.94
284.14	-72.01	-76.10	5.65	-1.56	-13.00	-59.01
382.11	-69.34	-72.96	5.63	-2.01	-13.00	-56.34
771.08	-62.07	-67.34	7.48	-2.21	-13.00	-49.07
5020.00	-49.43	-55.12	12.51	-6.82	-25.00	-24.43
7530.00	-30.53	-34.52	11.30	-7.31	-25.00	-5.53

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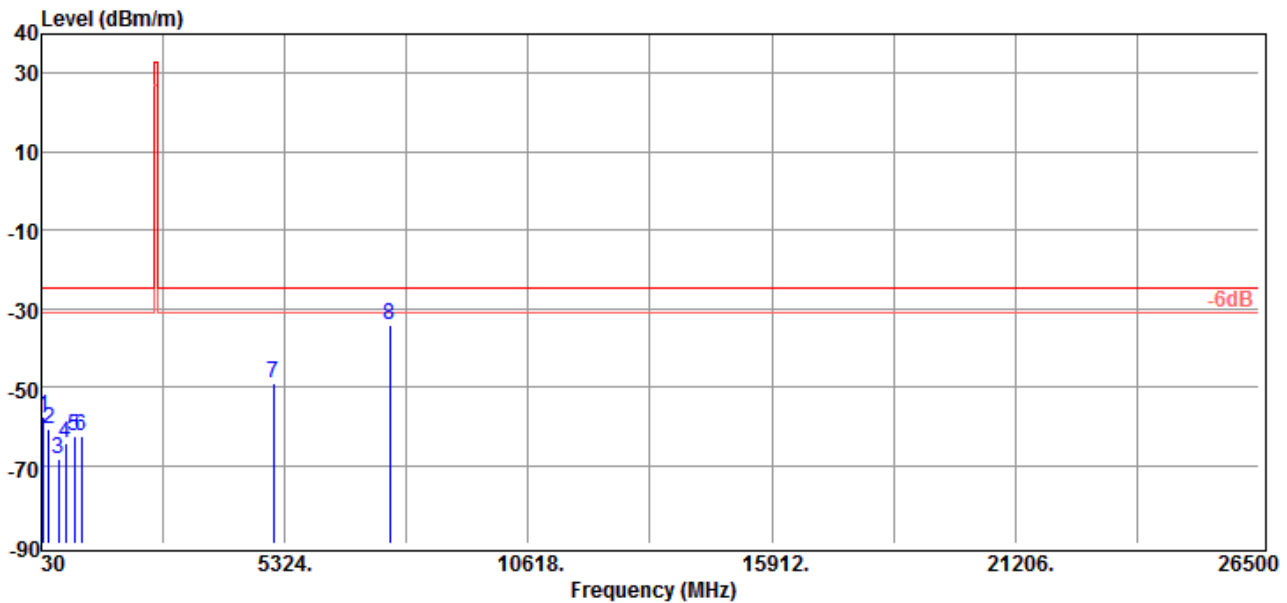
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Operation Mode	:LTE B7 20M QPSK RB1,0	Test Date	:2018-08-14
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E1	Antenna Pol.	:VERTICAL
Test Channel	:2535 MHz	Engineer	:Enzo



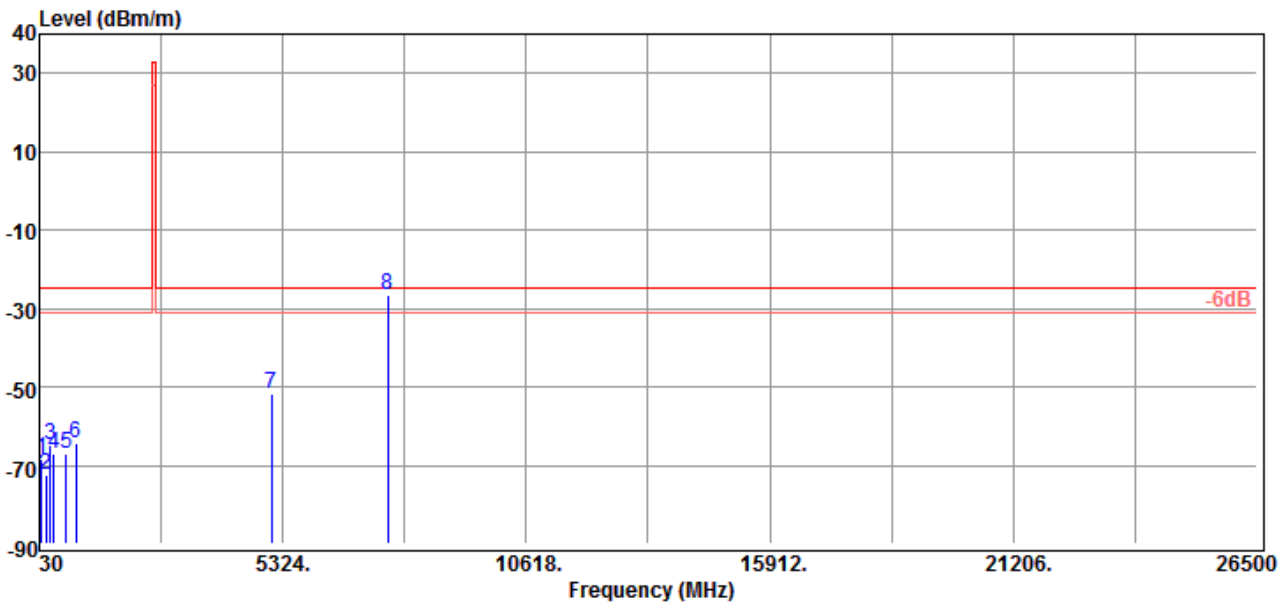
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
75.59	-57.44	-57.28	0.60	-0.76	-13.00	-44.44
197.81	-60.72	-65.19	5.70	-1.23	-13.00	-47.72
401.51	-68.22	-71.75	5.57	-2.04	-13.00	-55.22
554.77	-64.49	-68.42	6.26	-2.33	-13.00	-51.49
754.59	-62.64	-67.98	7.43	-2.09	-13.00	-49.64
910.76	-62.74	-67.85	7.61	-2.50	-13.00	-49.74
5070.00	-49.03	-54.84	12.57	-6.76	-25.00	-24.03
7605.00	-34.21	-38.10	11.30	-7.41	-25.00	-9.21

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Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E1	Antenna Pol.	:HORIZONTAL
Test Channel	:2535 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
83.35	-68.56	-68.20	0.43	-0.79	-13.00	-55.56
178.41	-72.67	-76.05	4.52	-1.14	-13.00	-59.67
271.53	-64.73	-68.69	5.48	-1.52	-13.00	-51.73
340.40	-66.97	-70.88	5.80	-1.89	-13.00	-53.97
619.76	-67.01	-71.47	6.75	-2.29	-13.00	-54.01
818.61	-64.54	-69.67	7.54	-2.41	-13.00	-51.54
5070.00	-51.93	-57.74	12.57	-6.76	-25.00	-26.93
7605.00	-26.58	-30.47	11.30	-7.41	-25.00	-1.58

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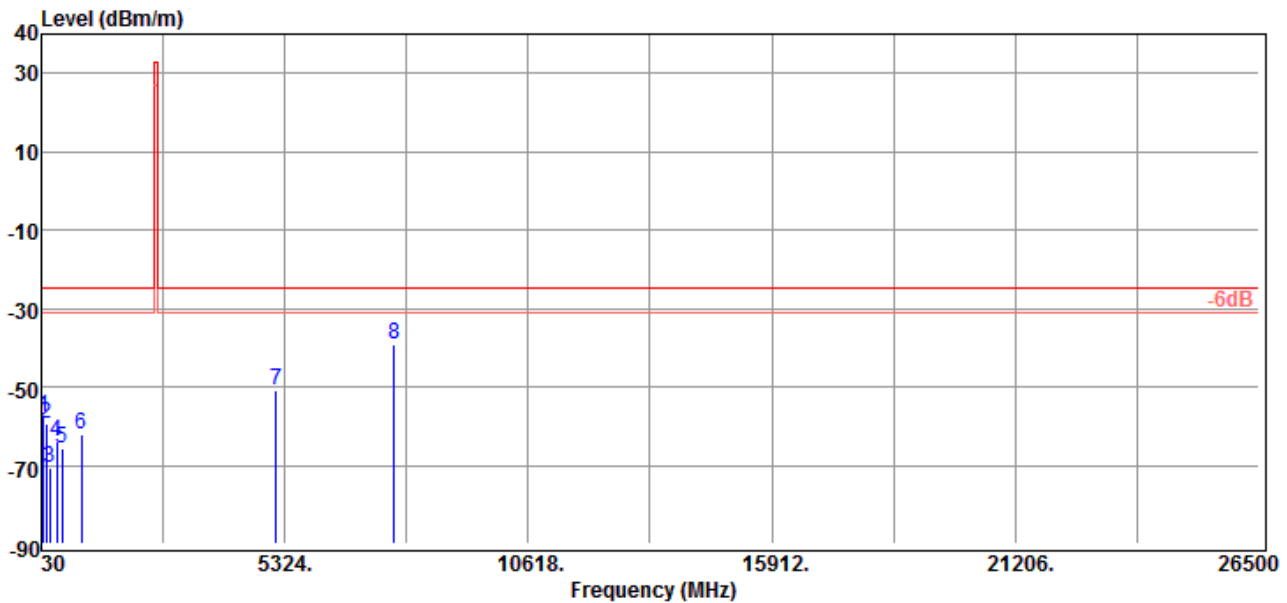
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Operation Mode	:LTE B7 20M QPSK RB1,0	Test Date	:2018-08-14
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E1	Antenna Pol.	:VERTICAL
Test Channel	:2560 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
74.62	-57.66	-57.50	0.59	-0.75	-13.00	-44.66
131.85	-59.25	-59.74	1.44	-0.95	-13.00	-46.25
212.36	-70.73	-75.09	5.65	-1.29	-13.00	-57.73
372.41	-63.82	-67.51	5.68	-1.99	-13.00	-50.82
488.81	-65.90	-69.65	6.24	-2.49	-13.00	-52.90
898.15	-62.23	-67.38	7.59	-2.44	-13.00	-49.23
5120.00	-50.84	-56.79	12.64	-6.69	-25.00	-25.84
7680.00	-39.31	-43.10	11.30	-7.51	-25.00	-14.31

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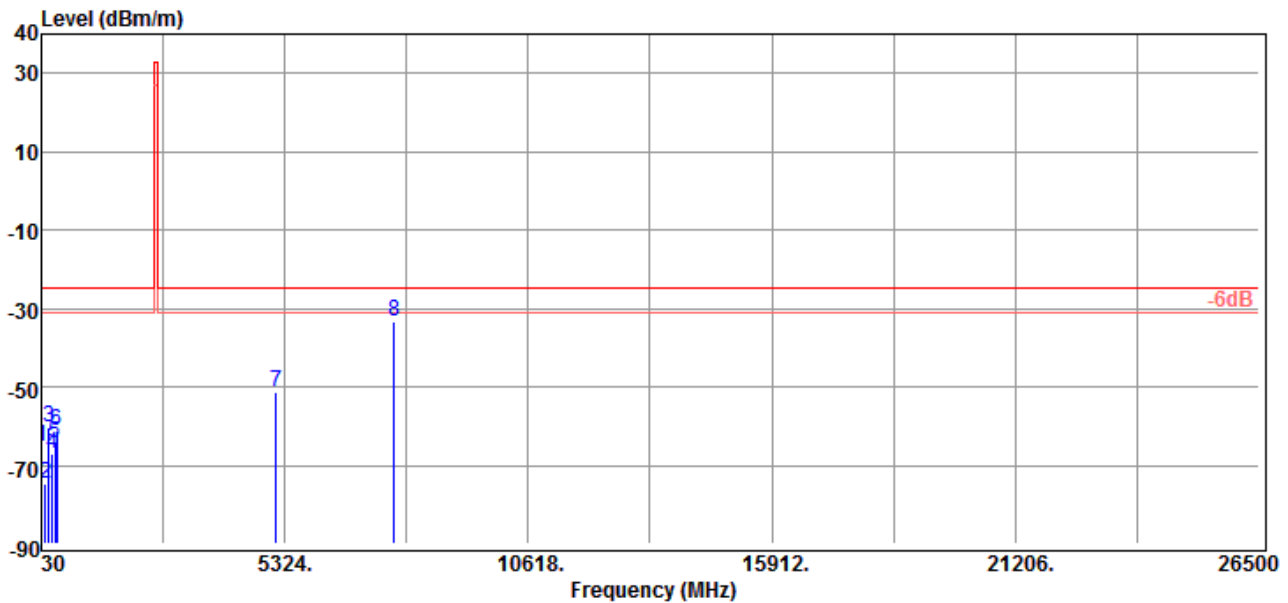
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Operation Mode	:LTE B7 20M QPSK RB1,0	Test Date	:2018-08-14
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E1	Antenna Pol.	:HORIZONTAL
Test Channel	:2560 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
40.67	-65.36	-53.35	-11.41	-0.60	-13.00	-52.36
119.24	-74.61	-74.28	0.59	-0.92	-13.00	-61.61
193.93	-60.24	-64.51	5.48	-1.21	-13.00	-47.24
259.89	-67.12	-70.95	5.31	-1.48	-13.00	-54.12
326.82	-64.27	-68.29	5.82	-1.80	-13.00	-51.27
366.59	-61.20	-64.93	5.71	-1.98	-13.00	-48.20
5120.00	-51.40	-57.35	12.64	-6.69	-25.00	-26.40
7680.00	-33.20	-36.99	11.30	-7.51	-25.00	-8.20

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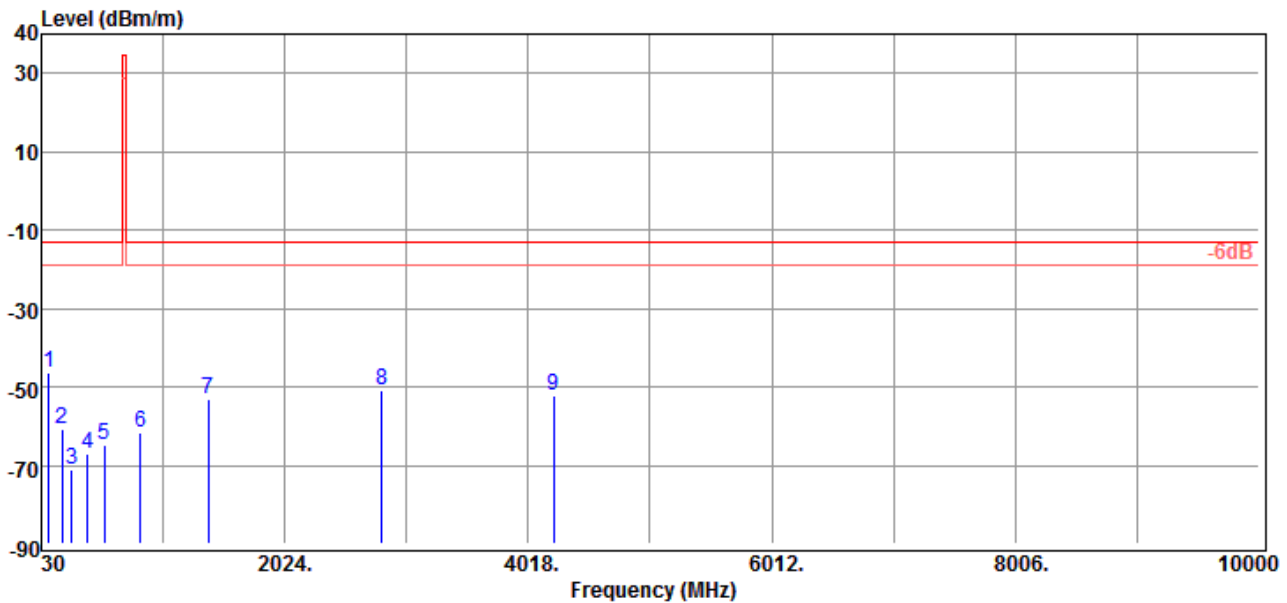
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Radiated Spurious Emission Measurement Result: LTE-Band 12 (The Worst Case)

Operation Mode	:LTE B12 5M QPSK RB1,0	Test Date	:2018-08-14
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E1	Antenna Pol.	:VERTICAL
Test Channel	:701.5 MHz	Engineer	:Enzo



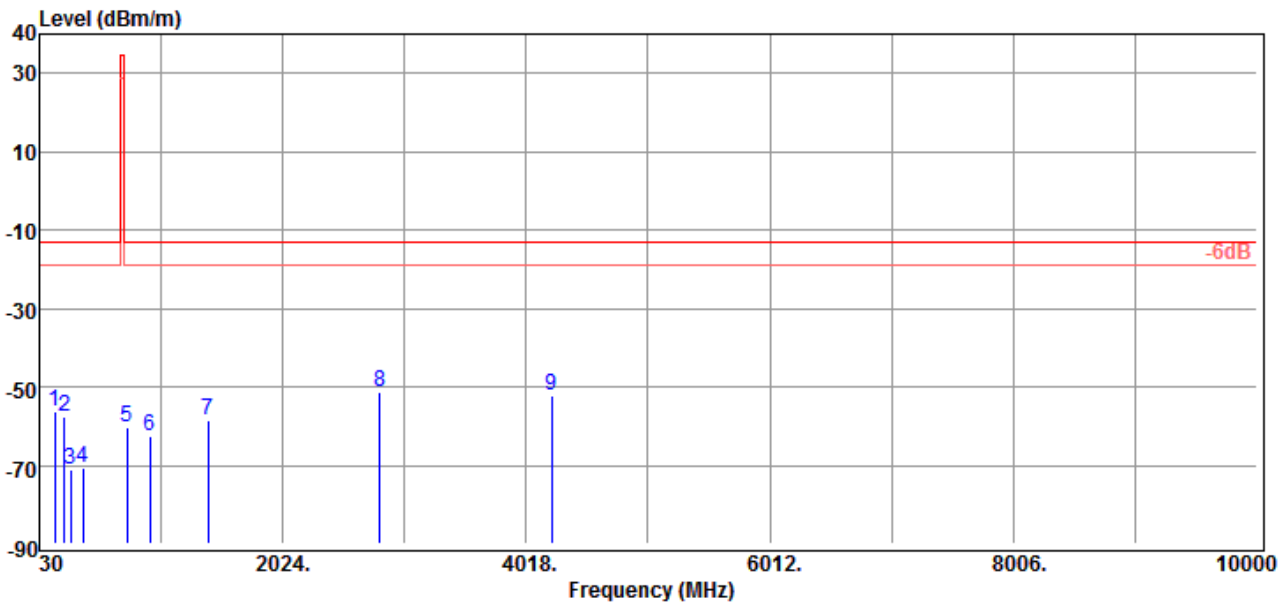
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
89.17	-46.22	-45.45	0.04	-0.81	-13.00	-33.22
197.81	-60.72	-65.19	5.70	-1.23	-13.00	-47.72
281.23	-71.25	-75.31	5.61	-1.55	-13.00	-58.25
411.21	-67.21	-70.84	5.67	-2.04	-13.00	-54.21
548.95	-64.72	-68.58	6.22	-2.36	-13.00	-51.72
840.92	-61.88	-67.02	7.51	-2.37	-13.00	-48.88
1403.00	-53.10	-57.30	7.67	-3.47	-13.00	-40.10
2104.50	-50.95	-57.54	11.09	-4.50	-13.00	-37.95
4209.00	-52.28	-58.48	12.60	-6.40	-13.00	-39.28

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Operation Mode	:LTE B12 5M QPSK RB1,0	Test Date	:2018-08-14
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E1	Antenna Pol.	:HORIZONTAL
Test Channel	:701.5 MHz	Engineer	:Enzo



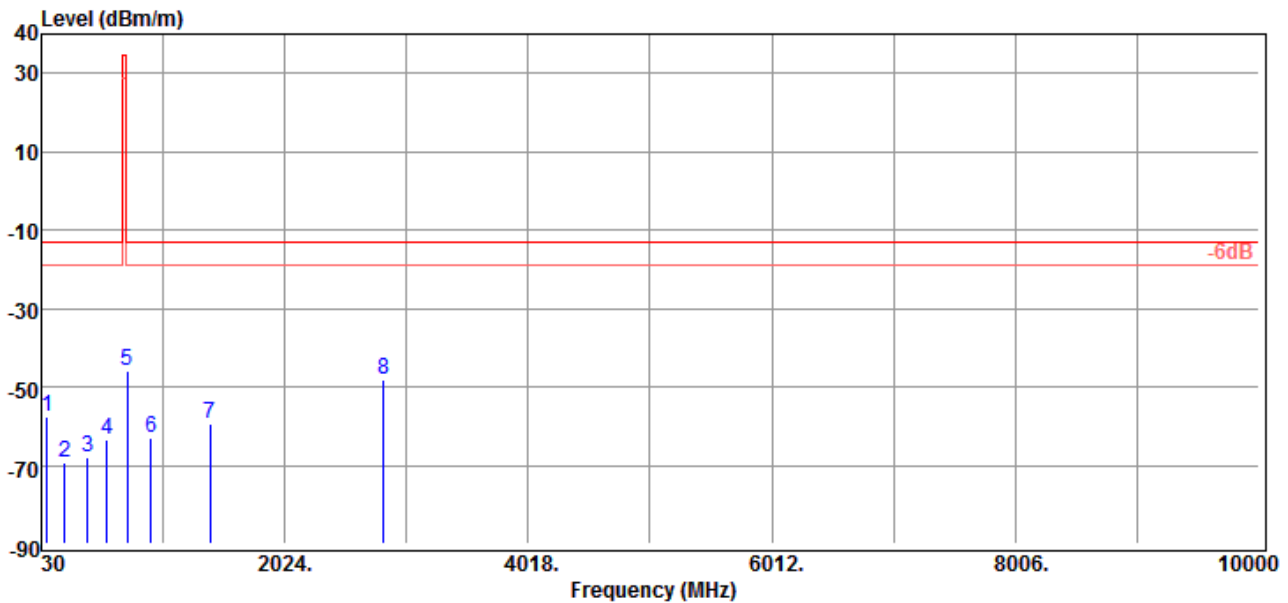
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
156.10	-56.27	-58.23	2.99	-1.03	-13.00	-43.27
236.61	-57.78	-61.72	5.33	-1.39	-13.00	-44.78
288.99	-71.05	-75.18	5.71	-1.58	-13.00	-58.05
388.90	-70.82	-74.40	5.60	-2.02	-13.00	-57.82
747.80	-60.35	-65.70	7.41	-2.06	-13.00	-47.35
933.07	-62.73	-67.74	7.64	-2.63	-13.00	-49.73
1403.00	-58.31	-62.55	7.73	-3.49	-13.00	-45.31
2104.50	-51.53	-58.12	11.09	-4.50	-13.00	-38.53
4209.00	-52.23	-58.43	12.60	-6.40	-13.00	-39.23

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Operation Mode	:LTE B12 5M QPSK RB1,0	Test Date	:2018-08-14
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E1	Antenna Pol.	:VERTICAL
Test Channel	:707.5 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
75.59	-57.44	-57.28	0.60	-0.76	-13.00	-44.44
218.18	-69.14	-73.40	5.57	-1.31	-13.00	-56.14
407.33	-68.14	-71.73	5.63	-2.04	-13.00	-55.14
567.38	-63.64	-67.75	6.38	-2.27	-13.00	-50.64
735.19	-45.80	-51.06	7.38	-2.12	-13.00	-32.80
927.25	-62.82	-67.85	7.63	-2.60	-13.00	-49.82
1415.00	-59.34	-63.59	7.75	-3.50	-13.00	-46.34
2830.00	-48.28	-54.89	11.11	-4.50	-13.00	-35.28

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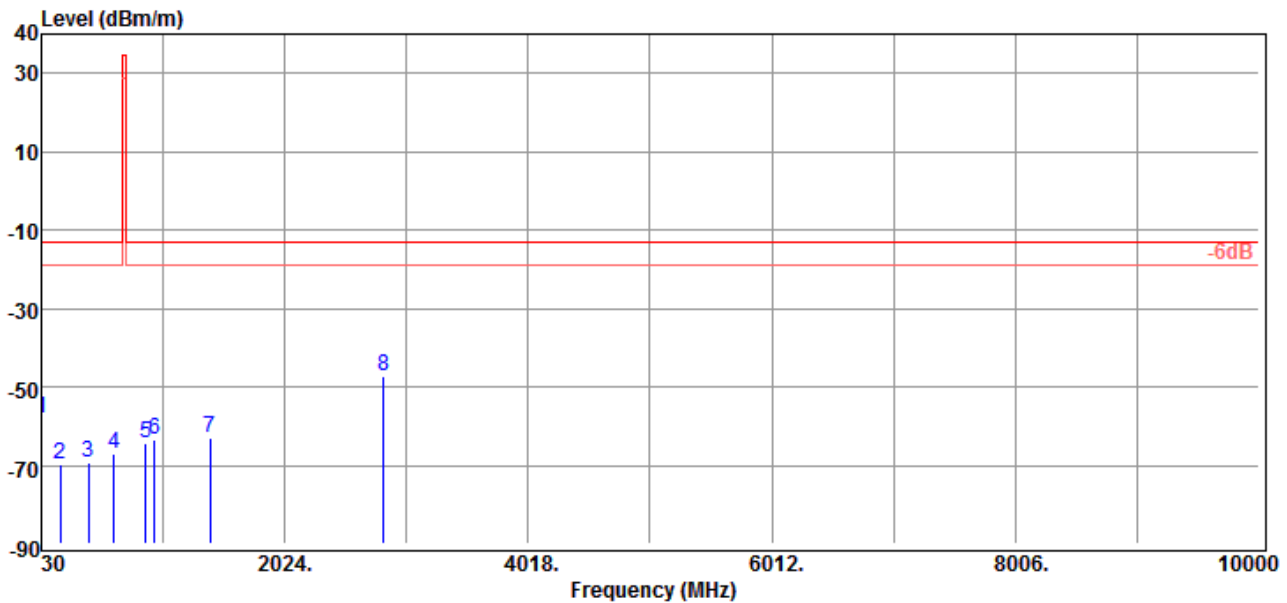
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Operation Mode	:LTE B12 5M QPSK RB1,0	Test Date	:2018-08-14
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E1	Antenna Pol.	:VERTICAL
Test Channel	:707.5 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
30.00	-57.93	-37.44	-20.05	-0.44	-13.00	-44.93
183.26	-69.57	-73.24	4.83	-1.16	-13.00	-56.57
418.97	-69.35	-73.05	5.75	-2.05	-13.00	-56.35
626.55	-67.04	-71.48	6.78	-2.34	-13.00	-54.04
884.57	-64.53	-69.67	7.56	-2.42	-13.00	-51.53
957.32	-63.65	-68.56	7.68	-2.77	-13.00	-50.65
1415.00	-63.16	-67.41	7.75	-3.50	-13.00	-50.16
2830.00	-47.42	-54.03	11.11	-4.50	-13.00	-34.42

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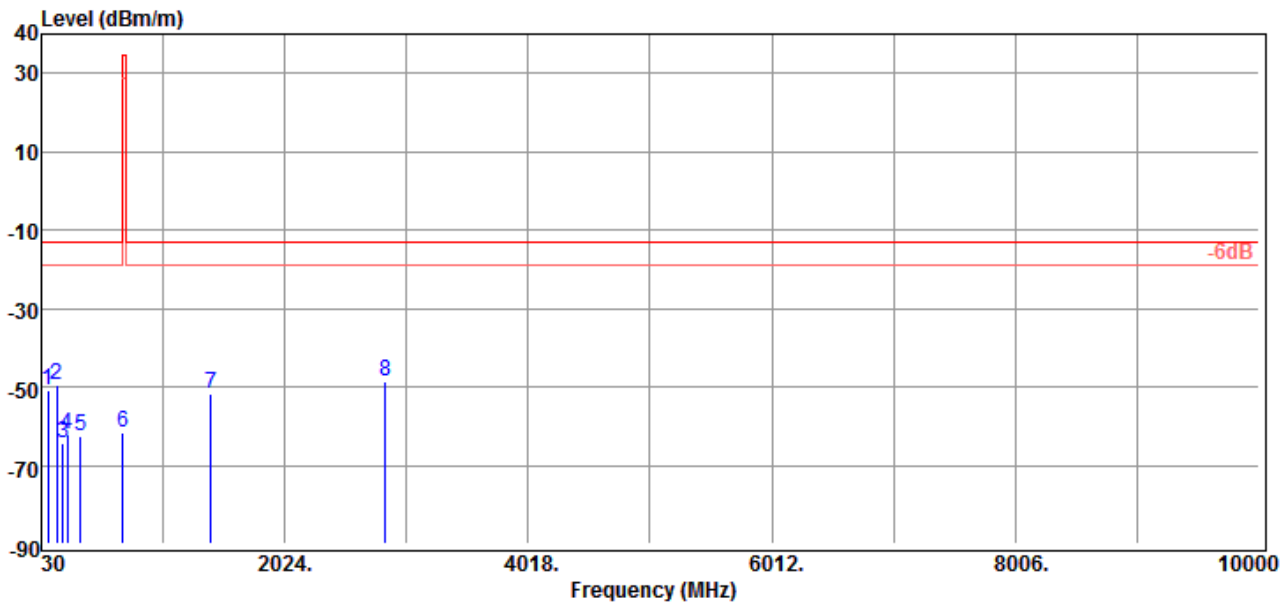
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Operation Mode	:LTE B12 5M QPSK RB1,0	Test Date	:2018-08-14
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E1	Antenna Pol.	:VERTICAL
Test Channel	:713.5 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
83.35	-51.08	-50.72	0.43	-0.79	-13.00	-38.08
156.10	-49.45	-51.41	2.99	-1.03	-13.00	-36.45
204.60	-64.19	-68.69	5.76	-1.26	-13.00	-51.19
246.31	-62.27	-66.05	5.21	-1.43	-13.00	-49.27
353.98	-62.56	-66.37	5.77	-1.96	-13.00	-49.56
700.27	-61.78	-66.80	7.31	-2.29	-13.00	-48.78
1427.00	-51.77	-56.04	7.78	-3.51	-13.00	-38.77
2854.00	-48.50	-55.11	11.12	-4.51	-13.00	-35.50

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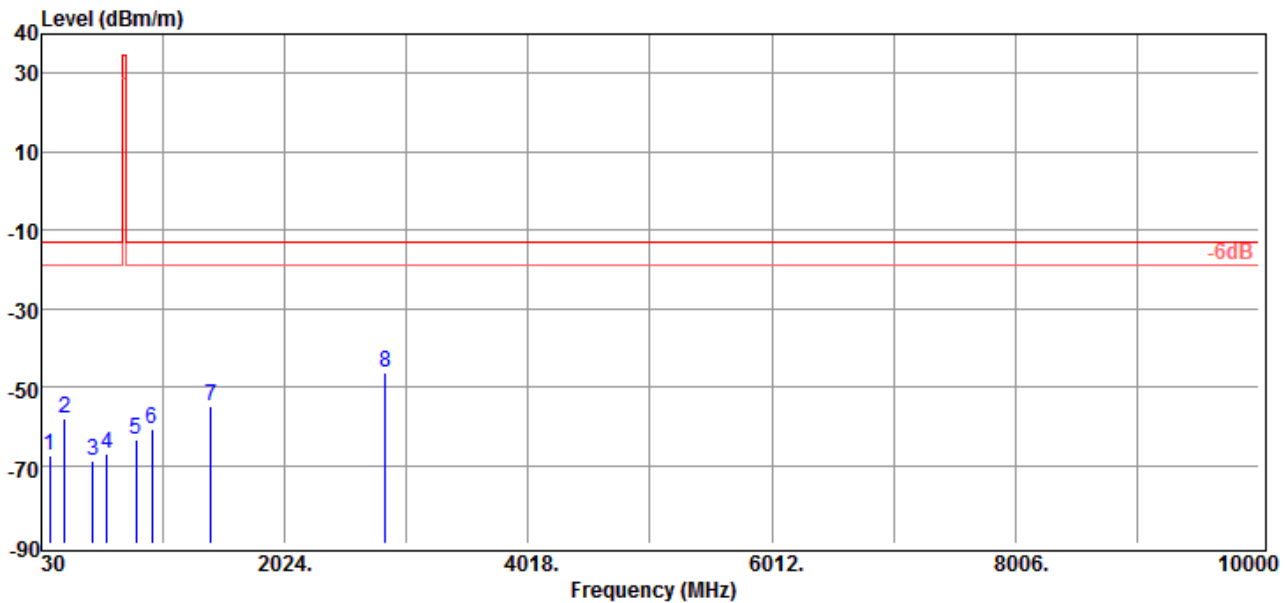
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Operation Mode	:LTE B12 5M QPSK RB1,0	Test Date	:2018-08-14
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E1	Antenna Pol.	:HORIZONTAL
Test Channel	:713.5 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
97.90	-67.63	-66.07	-0.71	-0.85	-13.00	-54.63
224.00	-58.05	-62.20	5.49	-1.34	-13.00	-45.05
451.95	-69.06	-73.06	6.08	-2.08	-13.00	-56.06
565.44	-66.95	-71.03	6.36	-2.28	-13.00	-53.95
808.91	-63.61	-68.74	7.56	-2.43	-13.00	-50.61
935.01	-60.98	-65.98	7.64	-2.64	-13.00	-47.98
1427.00	-54.71	-58.98	7.78	-3.51	-13.00	-41.71
2854.00	-46.20	-52.81	11.12	-4.51	-13.00	-33.20

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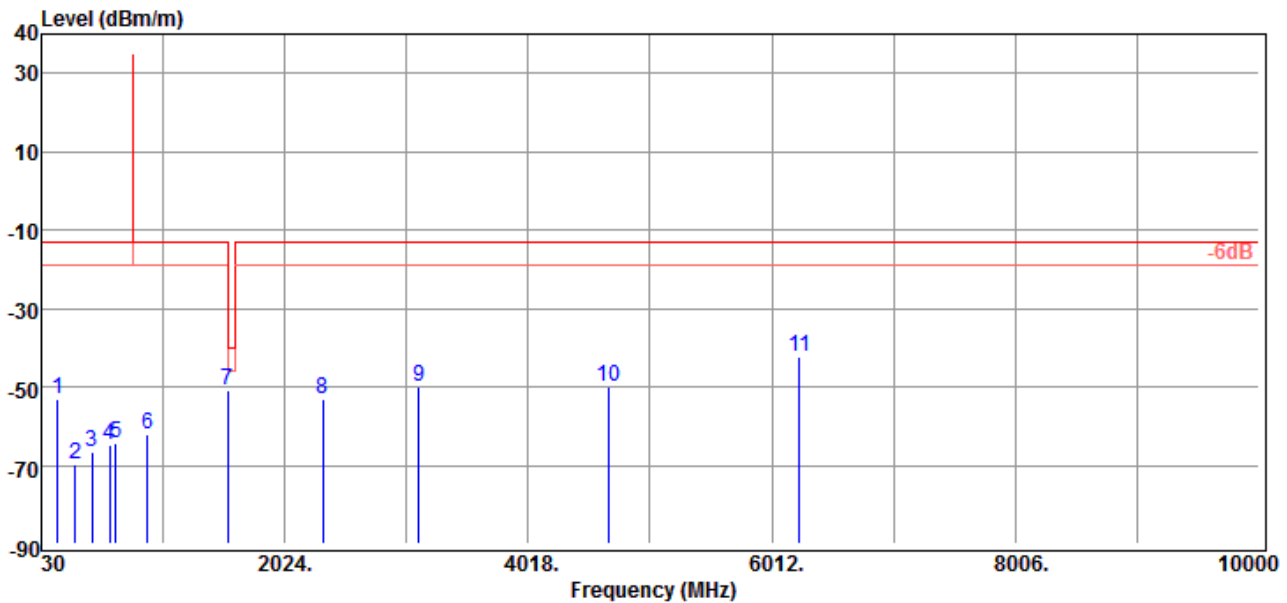
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Radiated Spurious Emission Measurement Result: LTE-Band 13 (The Worst Case)

Operation Mode	:LTE B13 5M QPSK RB1,0	Test Date	:2018-08-14
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E1	Antenna Pol.	:VERTICAL
Test Channel	:779.5 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
163.86	-53.17	-55.64	3.54	-1.07	-13.00	-40.17
307.42	-69.59	-73.76	5.84	-1.67	-13.00	-56.59
447.10	-66.71	-70.69	6.04	-2.06	-13.00	-53.71
586.78	-64.70	-69.07	6.55	-2.18	-13.00	-51.70
639.16	-64.22	-68.60	6.83	-2.45	-13.00	-51.22
896.21	-61.97	-67.12	7.58	-2.43	-13.00	-48.97
1559.00	-51.04	-55.70	8.38	-3.72	-40.00	-11.04
2338.50	-53.20	-59.40	10.55	-4.35	-13.00	-40.20
3118.00	-49.81	-56.22	11.55	-5.14	-13.00	-36.81
4677.00	-49.81	-55.77	12.56	-6.60	-13.00	-36.81
6236.00	-42.52	-47.82	12.71	-7.41	-13.00	-29.52

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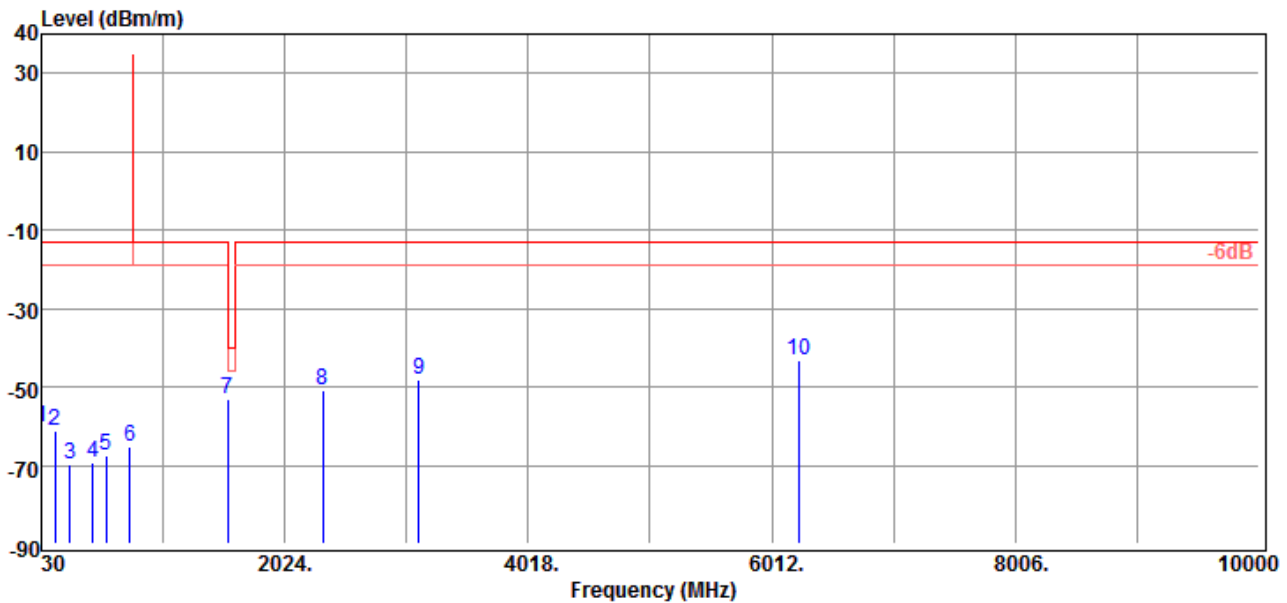
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Operation Mode	:LTE B13 5M QPSK RB1,0	Test Date	:2018-08-14
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E1	Antenna Pol.	:HORIZONTAL
Test Channel	:779.5 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
33.88	-60.49	-43.36	-16.63	-0.50	-13.00	-47.49
141.55	-61.38	-62.44	2.04	-0.98	-13.00	-48.38
260.86	-69.79	-73.64	5.33	-1.48	-13.00	-56.79
450.01	-69.12	-73.13	6.07	-2.06	-13.00	-56.12
559.62	-67.38	-71.38	6.31	-2.31	-13.00	-54.38
756.53	-65.30	-70.63	7.43	-2.10	-13.00	-52.30
1559.00	-53.01	-57.67	8.38	-3.72	-40.00	-13.01
2338.50	-50.75	-56.95	10.55	-4.35	-13.00	-37.75
3118.00	-48.39	-54.80	11.55	-5.14	-13.00	-35.39
6236.00	-43.20	-48.50	12.71	-7.41	-13.00	-30.20

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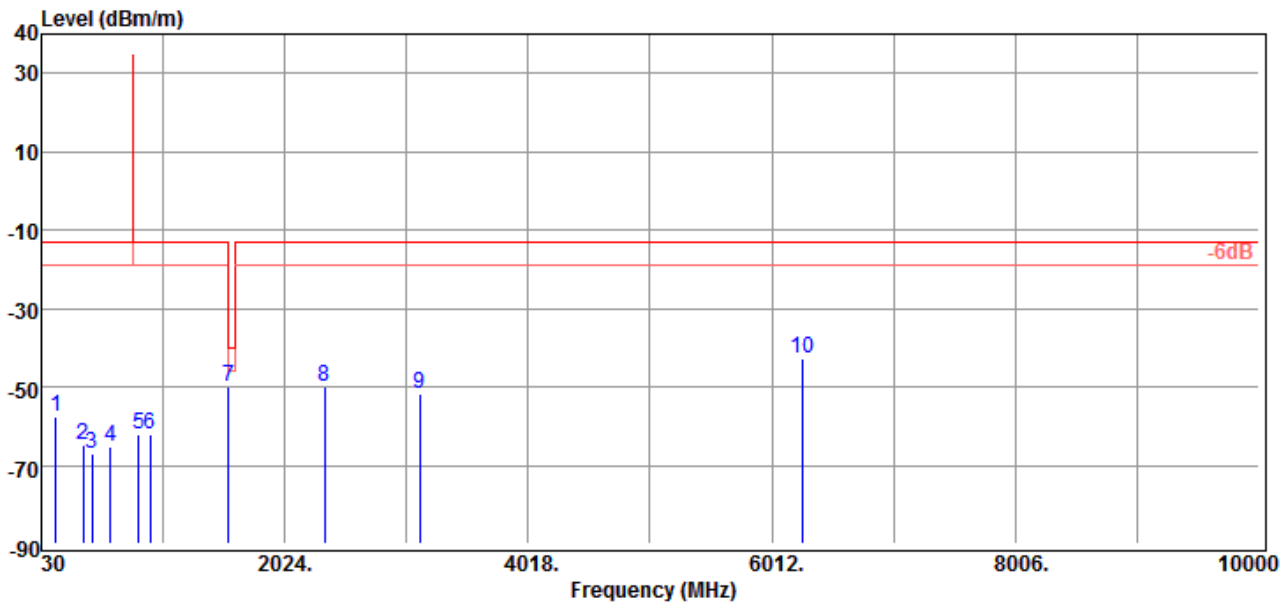
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Operation Mode	:LTE B13 5M QPSK RB1,0	Test Date	:2018-08-14
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E1	Antenna Pol.	:VERTICAL
Test Channel	:782 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
151.25	-57.45	-59.07	2.63	-1.01	-13.00	-44.45
374.35	-64.78	-68.46	5.67	-1.99	-13.00	-51.78
444.19	-66.92	-70.87	6.01	-2.06	-13.00	-53.92
599.39	-65.44	-69.98	6.66	-2.12	-13.00	-52.44
830.25	-62.19	-67.33	7.53	-2.39	-13.00	-49.19
920.46	-62.15	-67.21	7.62	-2.56	-13.00	-49.15
1564.00	-49.93	-54.61	8.40	-3.72	-40.00	-9.93
2346.00	-50.01	-56.21	10.56	-4.36	-13.00	-37.01
3128.00	-51.61	-57.99	11.57	-5.19	-13.00	-38.61
6256.00	-42.56	-47.82	12.68	-7.42	-13.00	-29.56

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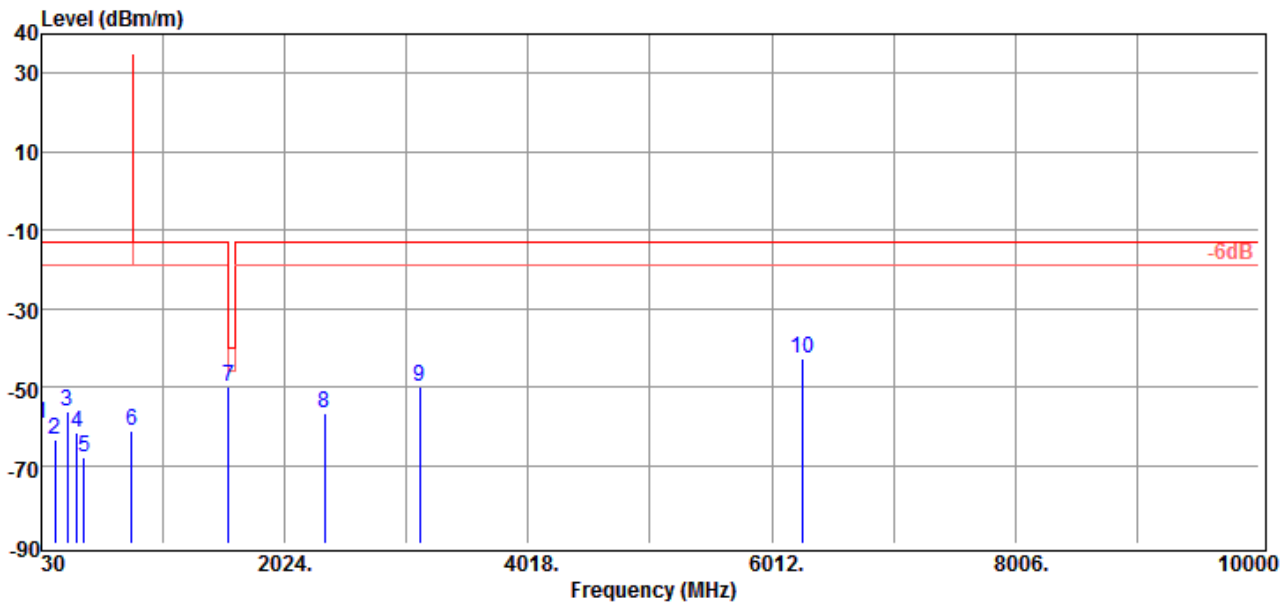
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Operation Mode	:LTE B13 5M QPSK RB1,0	Test Date	:2018-08-14
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E1	Antenna Pol.	:HORIZONTAL
Test Channel	:782 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
32.91	-59.23	-41.30	-17.44	-0.49	-13.00	-46.23
140.58	-63.61	-64.62	1.98	-0.97	-13.00	-50.61
242.43	-56.29	-60.14	5.26	-1.41	-13.00	-43.29
322.94	-61.78	-65.83	5.82	-1.77	-13.00	-48.78
378.23	-68.01	-71.66	5.65	-2.00	-13.00	-55.01
773.02	-61.39	-66.64	7.48	-2.23	-13.00	-48.39
1564.00	-49.89	-54.57	8.40	-3.72	-40.00	-9.89
2346.00	-56.65	-62.85	10.56	-4.36	-13.00	-43.65
3128.00	-49.85	-56.23	11.57	-5.19	-13.00	-36.85
6256.00	-42.63	-47.89	12.68	-7.42	-13.00	-29.63

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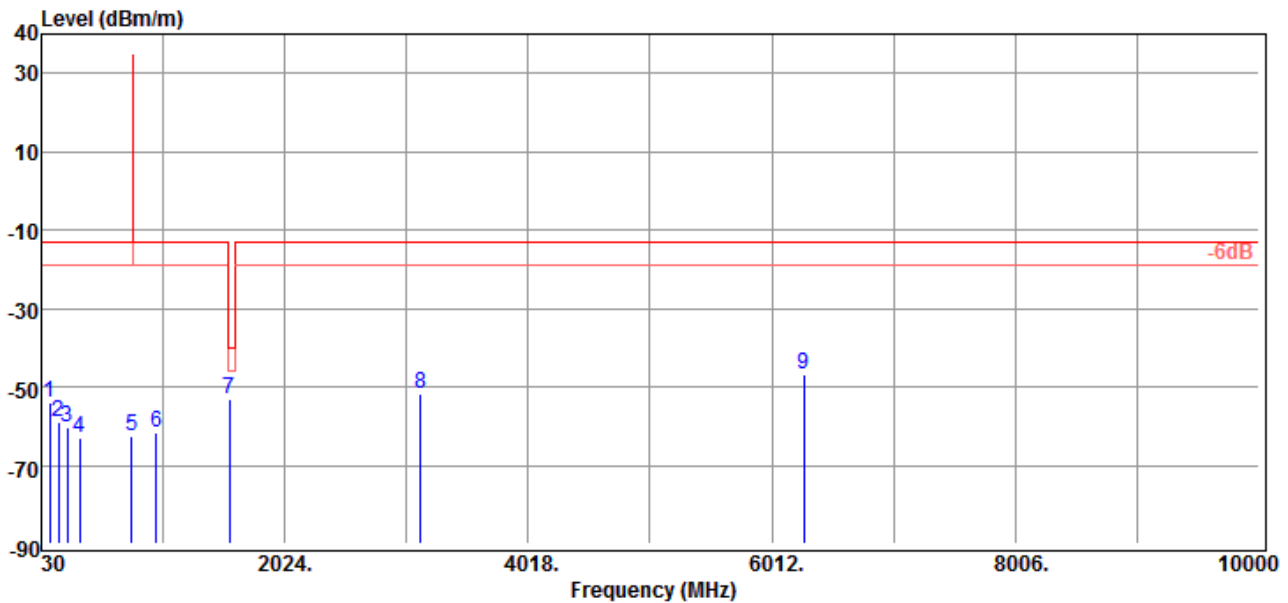
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Operation Mode	:LTE B13 5M QPSK RB1,0	Test Date	:2018-08-14
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E1	Antenna Pol.	:VERTICAL
Test Channel	:784.5 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
98.87	-54.00	-52.34	-0.80	-0.86	-13.00	-41.00
168.71	-58.91	-61.70	3.88	-1.09	-13.00	-45.91
239.52	-60.22	-64.12	5.30	-1.40	-13.00	-47.22
346.22	-62.87	-66.73	5.79	-1.93	-13.00	-49.87
768.17	-62.47	-67.75	7.47	-2.19	-13.00	-49.47
971.87	-61.54	-66.43	7.73	-2.84	-13.00	-48.54
1569.00	-53.17	-57.87	8.43	-3.73	-40.00	-13.17
3138.00	-51.98	-58.33	11.59	-5.24	-13.00	-38.98
6276.00	-46.99	-52.21	12.65	-7.43	-13.00	-33.99

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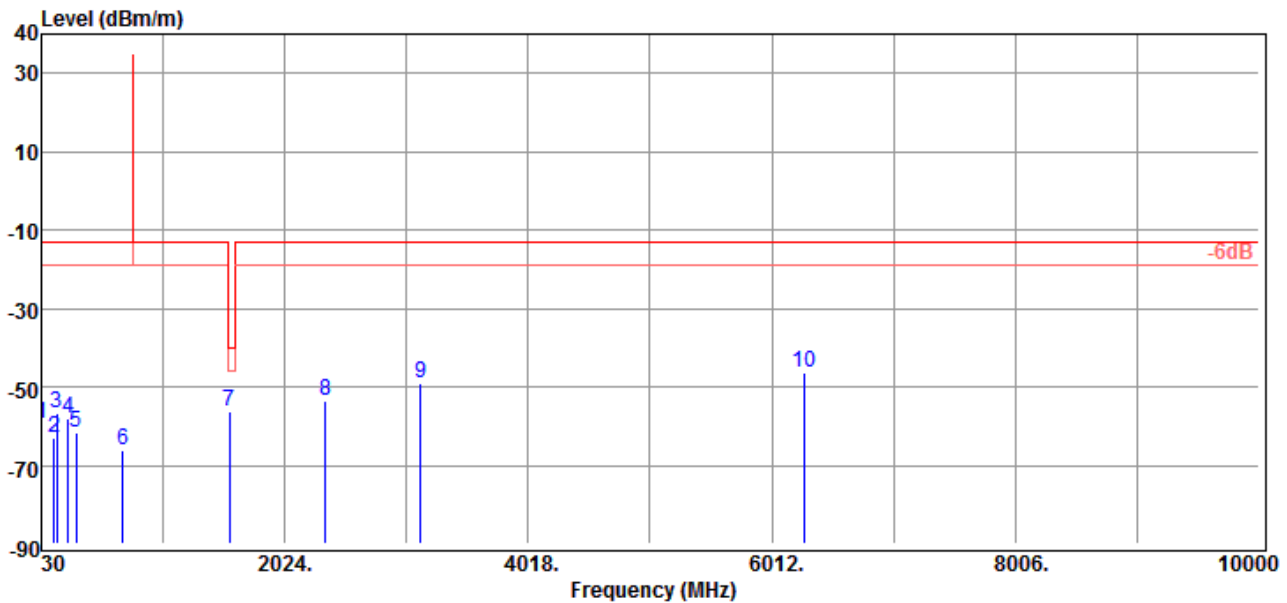
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Operation Mode	:LTE B13 5M QPSK RB1,0	Test Date	:2018-08-14
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E1	Antenna Pol.	:HORIZONTAL
Test Channel	:784.5 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
32.91	-59.23	-41.30	-17.44	-0.49	-13.00	-46.23
136.70	-62.99	-63.78	1.75	-0.96	-13.00	-49.99
159.01	-56.83	-58.99	3.20	-1.04	-13.00	-43.83
250.19	-57.88	-61.61	5.17	-1.44	-13.00	-44.88
315.18	-61.55	-65.66	5.83	-1.72	-13.00	-48.55
695.42	-66.03	-70.99	7.27	-2.31	-13.00	-53.03
1569.00	-56.37	-61.07	8.43	-3.73	-40.00	-16.37
2353.50	-53.40	-59.60	10.56	-4.36	-13.00	-40.40
3138.00	-48.94	-55.29	11.59	-5.24	-13.00	-35.94
6276.00	-46.50	-51.72	12.65	-7.43	-13.00	-33.50

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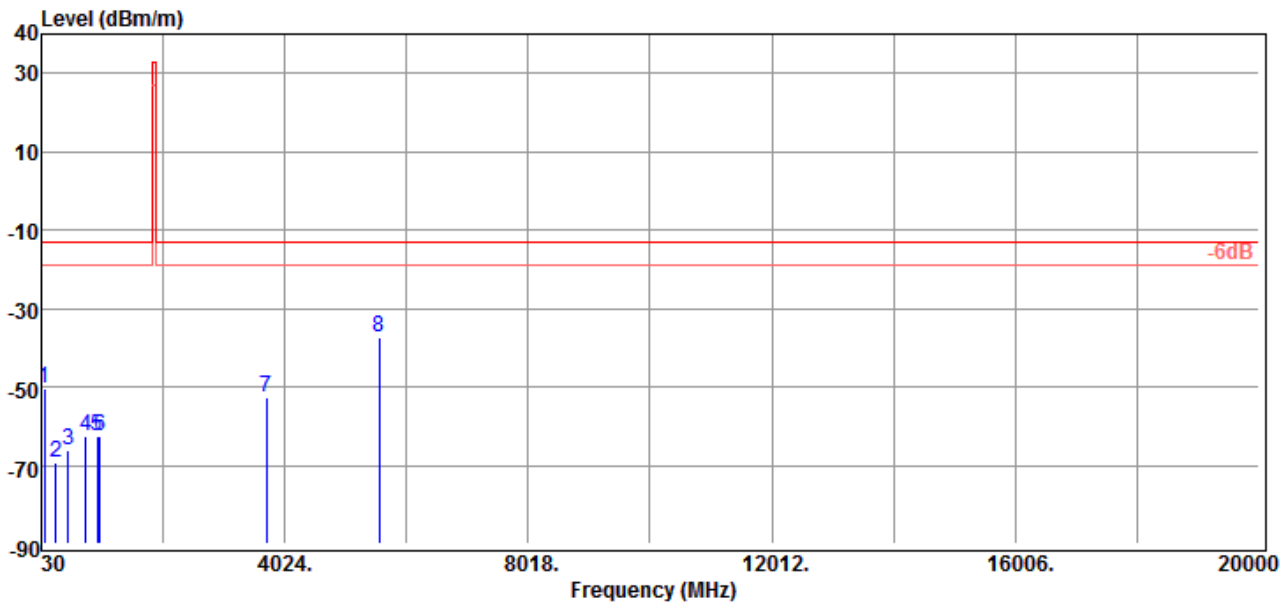
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Radiated Spurious Emission Measurement Result: LTE-Band 25 (The Worst Case)

Operation Mode	:LTE B25 10M QPSK RB1,0	Test Date	:2018-08-14
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E1	Antenna Pol.	:VERTICAL
Test Channel	:1855 MHz	Engineer	:Enzo



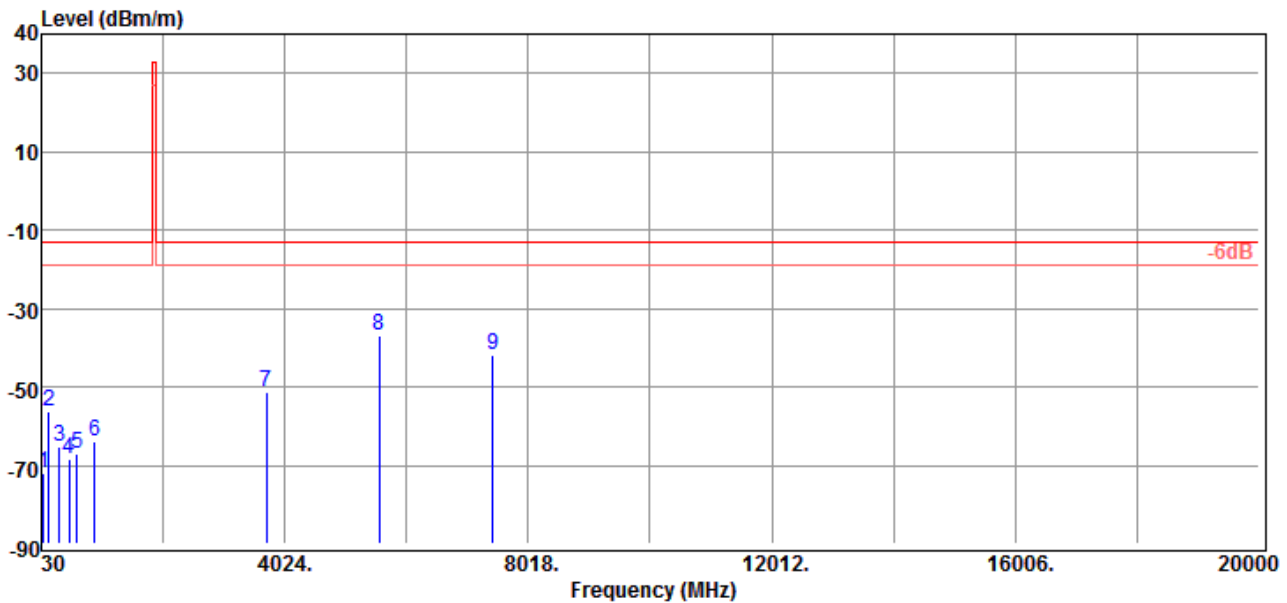
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
82.38	-50.46	-50.17	0.50	-0.79	-13.00	-37.46
270.56	-69.18	-73.13	5.46	-1.51	-13.00	-56.18
476.20	-66.26	-70.10	6.19	-2.35	-13.00	-53.26
754.59	-62.64	-67.98	7.43	-2.09	-13.00	-49.64
942.77	-62.75	-67.71	7.65	-2.69	-13.00	-49.75
985.45	-62.47	-67.33	7.77	-2.91	-13.00	-49.47
3710.00	-52.71	-58.41	12.43	-6.73	-13.00	-39.71
5565.00	-37.38	-43.93	13.02	-6.47	-13.00	-24.38

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Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E1	Antenna Pol.	:HORIZONTAL
Test Channel	:1855 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
65.89	-71.89	-71.17	-0.02	-0.70	-13.00	-58.89
156.10	-56.27	-58.23	2.99	-1.03	-13.00	-43.27
327.79	-65.23	-69.25	5.82	-1.80	-13.00	-52.23
489.78	-68.23	-71.97	6.25	-2.51	-13.00	-55.23
618.79	-66.97	-71.44	6.75	-2.28	-13.00	-53.97
897.18	-63.78	-68.93	7.59	-2.44	-13.00	-50.78
3710.00	-51.15	-56.85	12.43	-6.73	-13.00	-38.15
5565.00	-37.00	-43.55	13.02	-6.47	-13.00	-24.00
7430.00	-41.85	-45.97	11.40	-7.28	-13.00	-28.85

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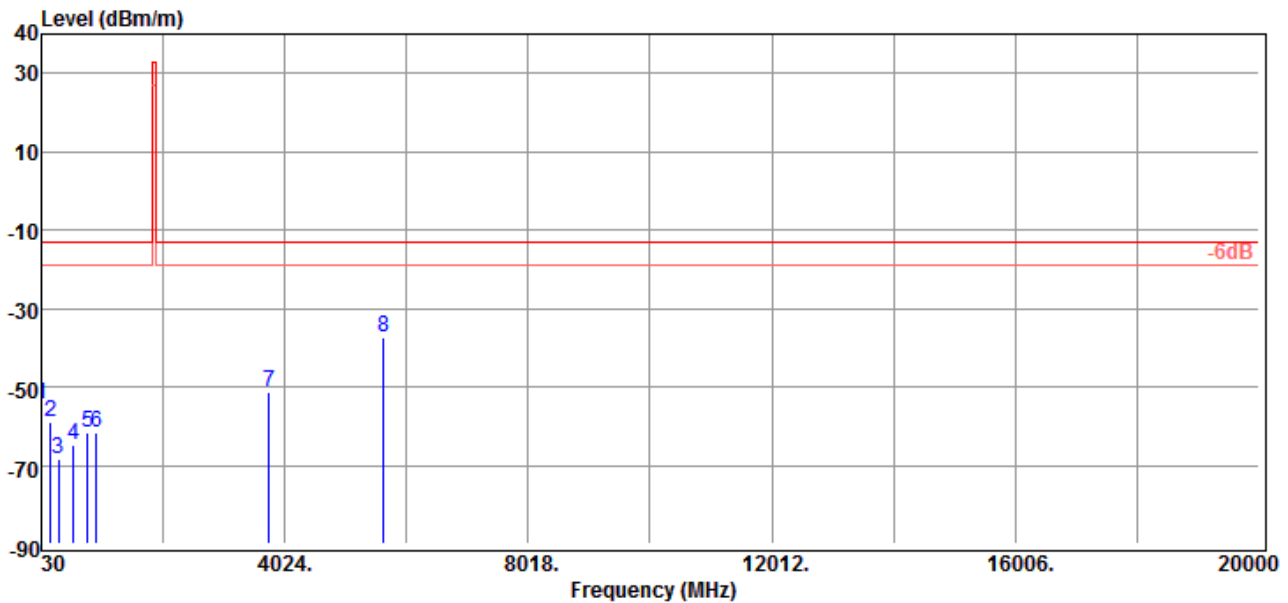
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Operation Mode	:LTE B25 10M QPSK RB1,0	Test Date	:2018-08-14
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E1	Antenna Pol.	:VERTICAL
Test Channel	:1882.5 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
30.00	-54.68	-34.19	-20.05	-0.44	-13.00	-41.68
188.11	-58.97	-62.92	5.13	-1.18	-13.00	-45.97
312.27	-68.54	-72.67	5.83	-1.70	-13.00	-55.54
550.89	-64.75	-68.63	6.23	-2.35	-13.00	-51.75
787.57	-61.74	-66.93	7.53	-2.34	-13.00	-48.74
939.86	-61.71	-66.69	7.65	-2.67	-13.00	-48.71
3765.00	-51.29	-57.09	12.46	-6.66	-13.00	-38.29
5647.50	-37.46	-43.87	13.03	-6.62	-13.00	-24.46

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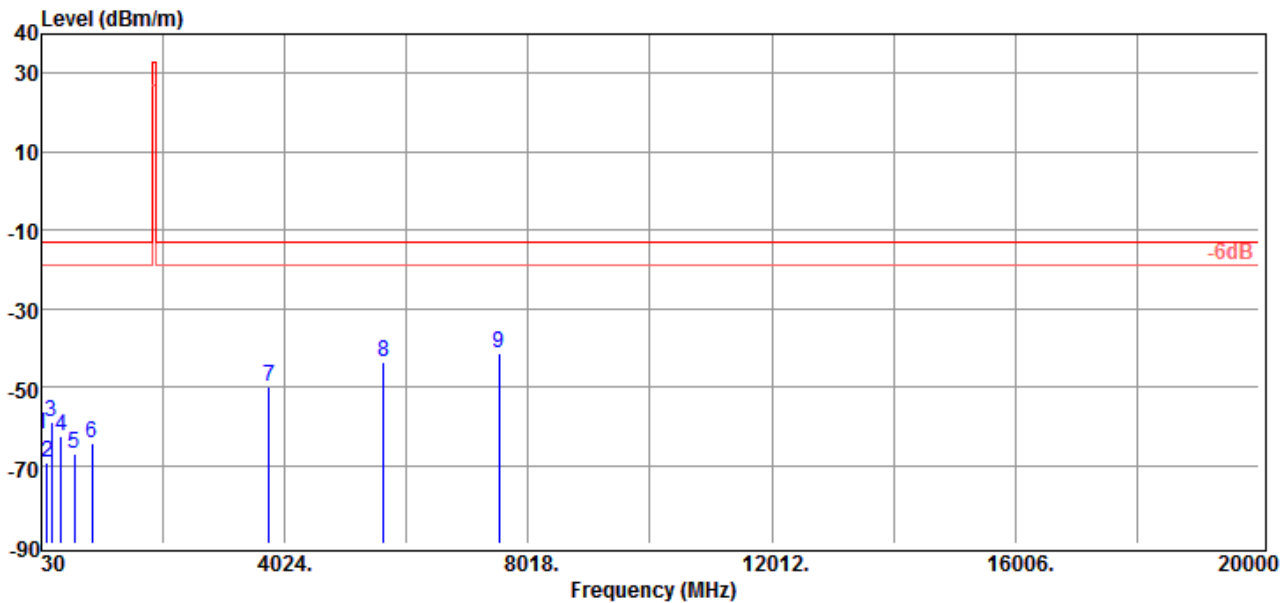
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Operation Mode	:LTE B25 10M QPSK RB1,0	Test Date	:2018-08-14
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E1	Antenna Pol.	:HORIZONTAL
Test Channel	:1882.5 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
35.82	-62.16	-46.57	-15.06	-0.53	-13.00	-49.16
126.03	-69.18	-69.30	1.06	-0.94	-13.00	-56.18
199.75	-58.93	-63.51	5.82	-1.24	-13.00	-45.93
353.98	-62.50	-66.31	5.77	-1.96	-13.00	-49.50
571.26	-67.09	-71.26	6.42	-2.25	-13.00	-54.09
866.14	-64.33	-69.47	7.53	-2.39	-13.00	-51.33
3765.00	-49.75	-55.55	12.46	-6.66	-13.00	-36.75
5647.50	-43.64	-50.05	13.03	-6.62	-13.00	-30.64
7530.00	-41.54	-45.51	11.30	-7.33	-13.00	-28.54

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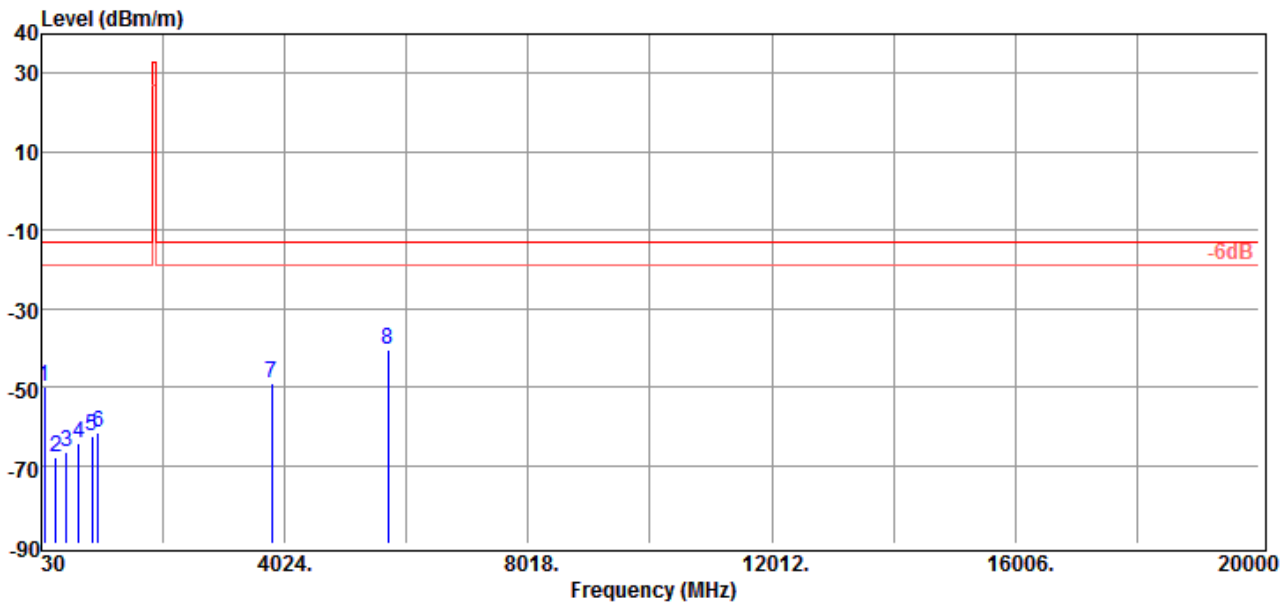
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Operation Mode	:LTE B25 10M QPSK RB1,0	Test Date	:2018-08-14
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E1	Antenna Pol.	:VERTICAL
Test Channel	:1910 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
86.26	-50.02	-49.46	0.24	-0.80	-13.00	-37.02
261.83	-67.85	-71.71	5.34	-1.48	-13.00	-54.85
440.31	-66.69	-70.60	5.97	-2.06	-13.00	-53.69
643.04	-64.51	-68.87	6.84	-2.48	-13.00	-51.51
854.50	-62.39	-67.53	7.51	-2.37	-13.00	-49.39
968.96	-61.80	-66.69	7.72	-2.83	-13.00	-48.80
3820.00	-48.96	-54.86	12.49	-6.59	-13.00	-35.96
5730	-40.39	-46.68	13.05	-6.76	-13.00	-27.39

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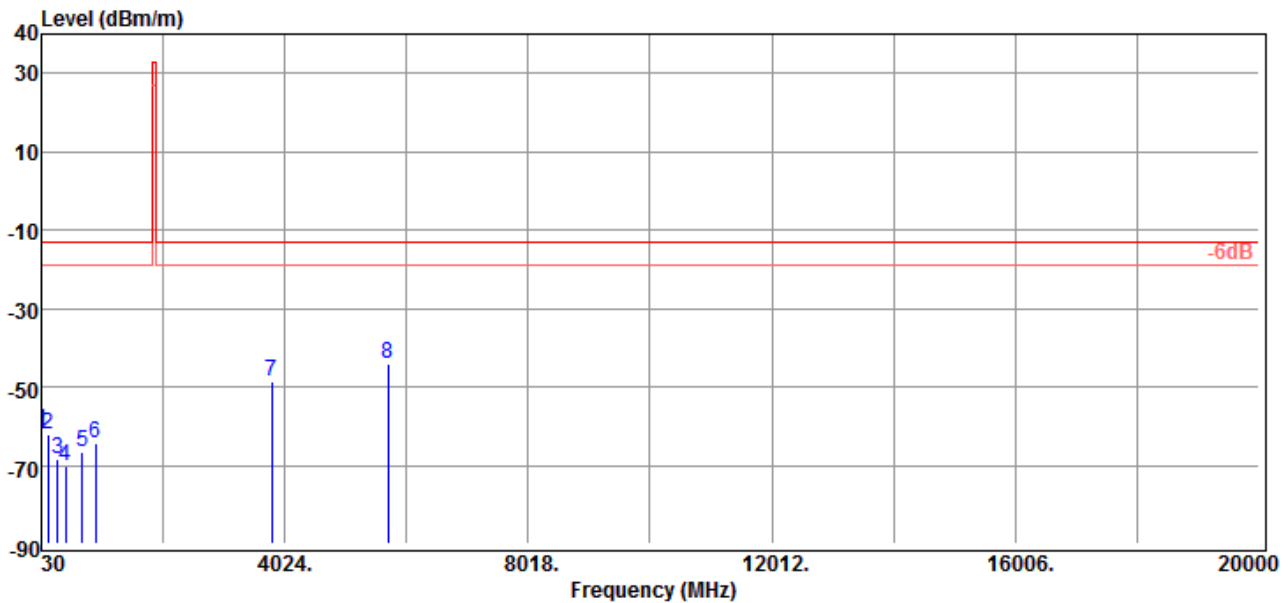
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Operation Mode	:LTE B25 10M QPSK RB1,0	Test Date	:2018-08-14
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E1	Antenna Pol.	:HORIZONTAL
Test Channel	:1910 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
34.85	-61.25	-44.90	-15.83	-0.52	-13.00	-48.25
138.64	-61.94	-62.84	1.87	-0.97	-13.00	-48.94
297.72	-68.49	-72.70	5.82	-1.61	-13.00	-55.49
425.76	-69.99	-73.77	5.83	-2.05	-13.00	-56.99
702.21	-66.45	-71.48	7.31	-2.28	-13.00	-53.45
921.43	-64.30	-69.36	7.62	-2.56	-13.00	-51.30
3820.00	-48.66	-54.56	12.49	-6.59	-13.00	-35.66
5730	-44.25	-50.54	13.05	-6.76	-13.00	-31.25

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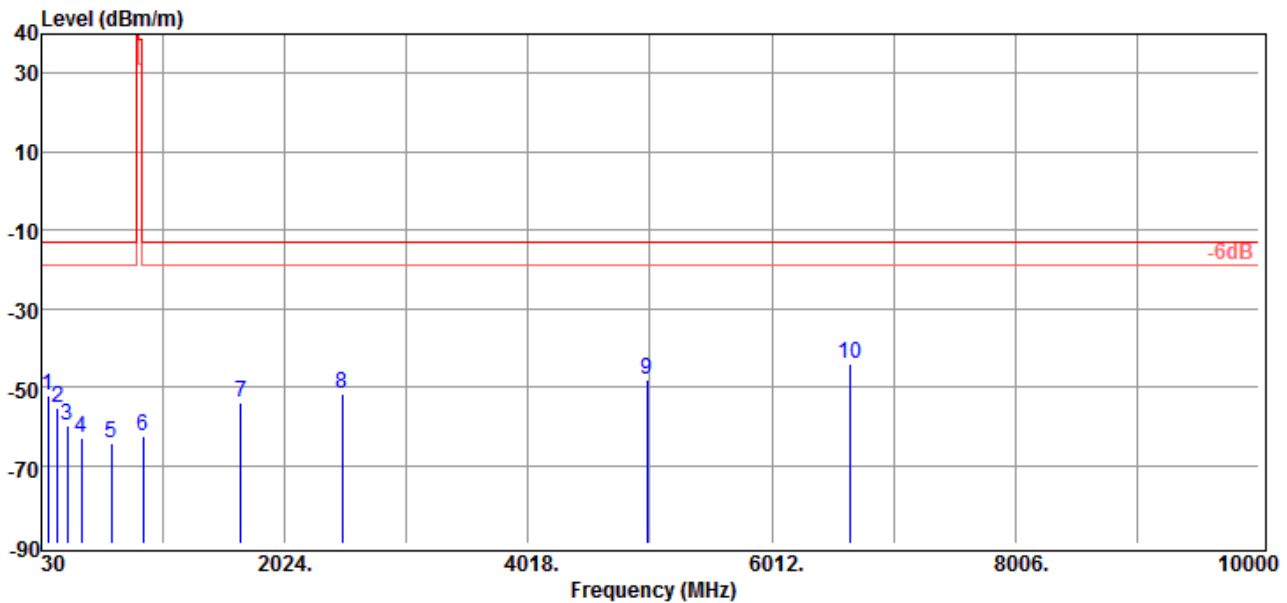
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Radiated Spurious Emission Measurement Result: LTE-Band 26 (The Worst Case)

Operation Mode	:LTE B26 15M QPSK RB1,0	Test Date	:2018-08-15
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E1	Antenna Pol.	:VERTICAL
Test Channel	:831.5 MHz	Engineer	:Enzo



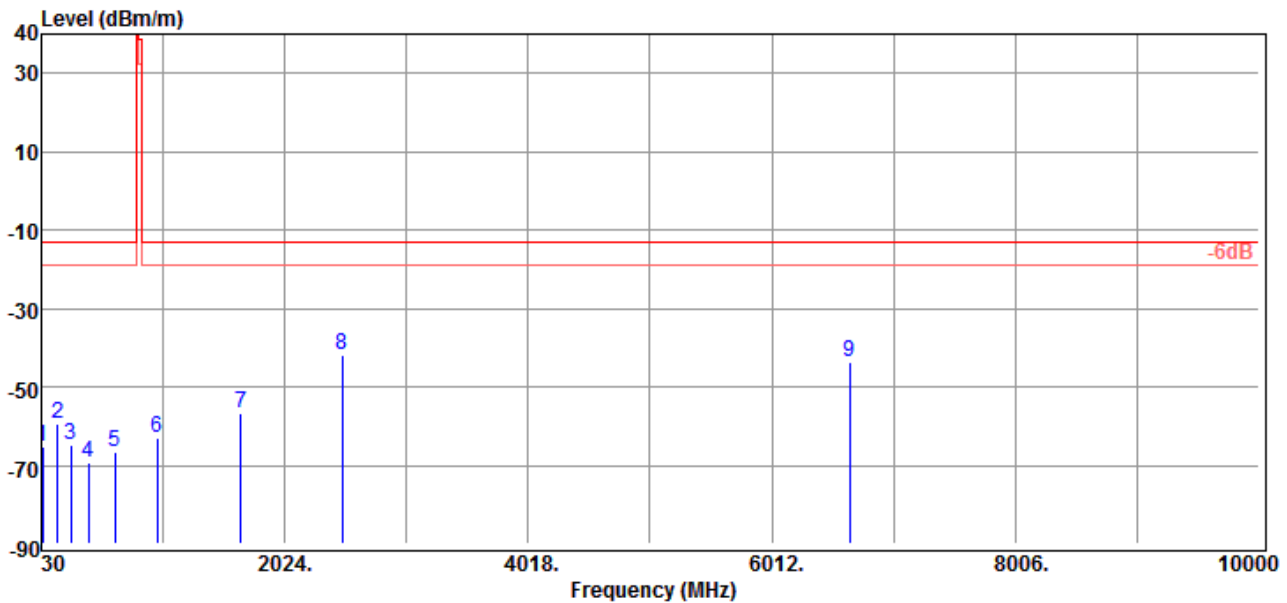
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
81.41	-52.11	-51.90	0.57	-0.78	-13.00	-39.11
165.80	-55.39	-57.99	3.68	-1.08	-13.00	-42.39
243.40	-59.71	-63.55	5.25	-1.41	-13.00	-46.71
354.95	-63.23	-67.03	5.76	-1.96	-13.00	-50.23
603.27	-64.20	-68.73	6.68	-2.15	-13.00	-51.20
862.26	-62.46	-67.60	7.52	-2.38	-13.00	-49.46
1663.00	-54.19	-59.19	8.85	-3.85	-13.00	-41.19
2494.50	-51.97	-58.28	10.70	-4.39	-13.00	-38.97
4989.00	-47.96	-53.64	12.50	-6.82	-13.00	-34.96
6652.00	-44.05	-48.83	12.21	-7.43	-13.00	-31.05

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Operation Mode	:LTE B26 15M QPSK RB1,0	Test Date	:2018-08-15
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E1	Antenna Pol.	:HORIZONTAL
Test Channel	:831.5 MHz	Engineer	:Enzo



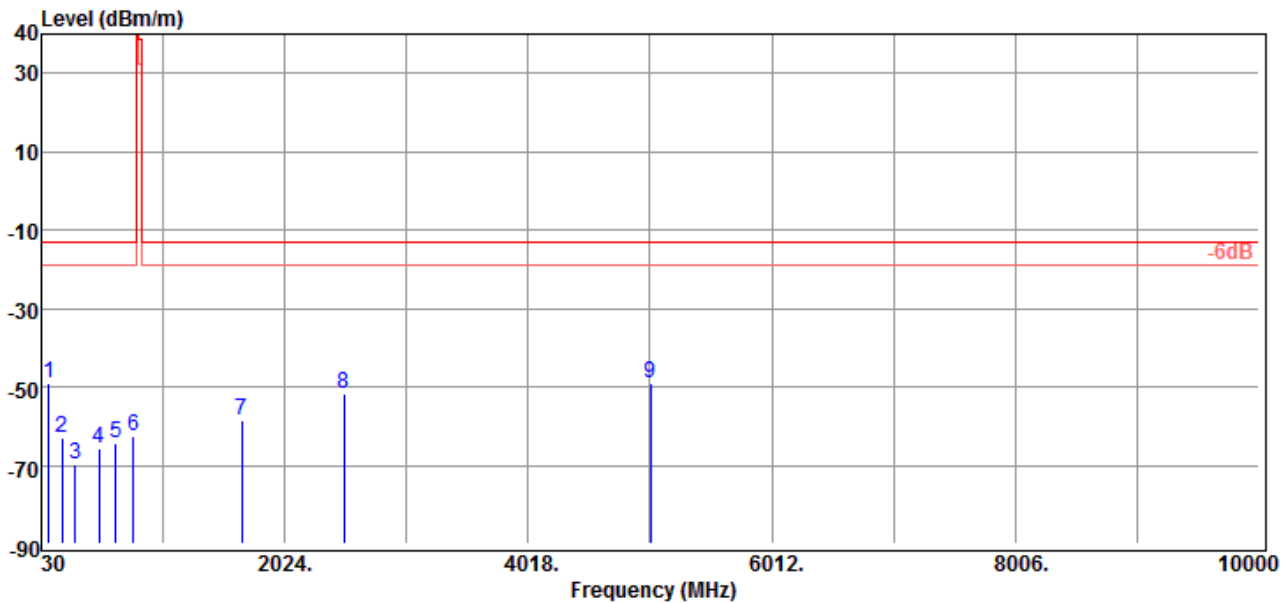
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
40.67	-65.36	-53.35	-11.41	-0.60	-13.00	-52.36
161.92	-59.46	-61.81	3.41	-1.06	-13.00	-46.46
273.47	-64.76	-68.74	5.50	-1.52	-13.00	-51.76
418.97	-69.35	-73.05	5.75	-2.05	-13.00	-56.35
631.40	-66.47	-70.89	6.80	-2.38	-13.00	-53.47
975.75	-63.05	-67.93	7.74	-2.86	-13.00	-50.05
1663.00	-56.52	-61.52	8.85	-3.85	-13.00	-43.52
2494.50	-41.72	-48.03	10.70	-4.39	-13.00	-28.72
6652.00	-43.63	-48.41	12.21	-7.43	-13.00	-30.63

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Operation Mode	:LTE B26 15M QPSK RB1,0	Test Date	:2018-08-15
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E1	Antenna Pol.	:VERTICAL
Test Channel	:836.5 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
92.08	-49.00	-47.98	-0.20	-0.82	-13.00	-36.00
199.75	-63.00	-67.58	5.82	-1.24	-13.00	-50.00
306.45	-69.66	-73.84	5.84	-1.66	-13.00	-56.66
503.36	-65.78	-69.47	6.29	-2.60	-13.00	-52.78
641.10	-64.39	-68.76	6.84	-2.47	-13.00	-51.39
782.72	-62.50	-67.71	7.52	-2.31	-13.00	-49.50
1673.00	-58.48	-63.52	8.90	-3.86	-13.00	-45.48
2509.50	-51.63	-57.95	10.71	-4.39	-13.00	-38.63
5019.00	-49.25	-54.96	12.52	-6.81	-13.00	-36.25

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Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E1	Antenna Pol.	:HORIZONTAL
Test Channel	:836.5 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
37.76	-63.76	-49.63	-13.57	-0.56	-13.00	-50.76
111.48	-73.64	-72.77	0.03	-0.90	-13.00	-60.64
193.93	-60.24	-64.51	5.48	-1.21	-13.00	-47.24
327.79	-65.23	-69.25	5.82	-1.80	-13.00	-52.23
365.62	-62.24	-65.97	5.71	-1.98	-13.00	-49.24
772.05	-61.83	-67.09	7.48	-2.22	-13.00	-48.83
1673.00	-55.62	-60.66	8.90	-3.86	-13.00	-42.62
2509.50	-42.93	-49.25	10.71	-4.39	-13.00	-29.93

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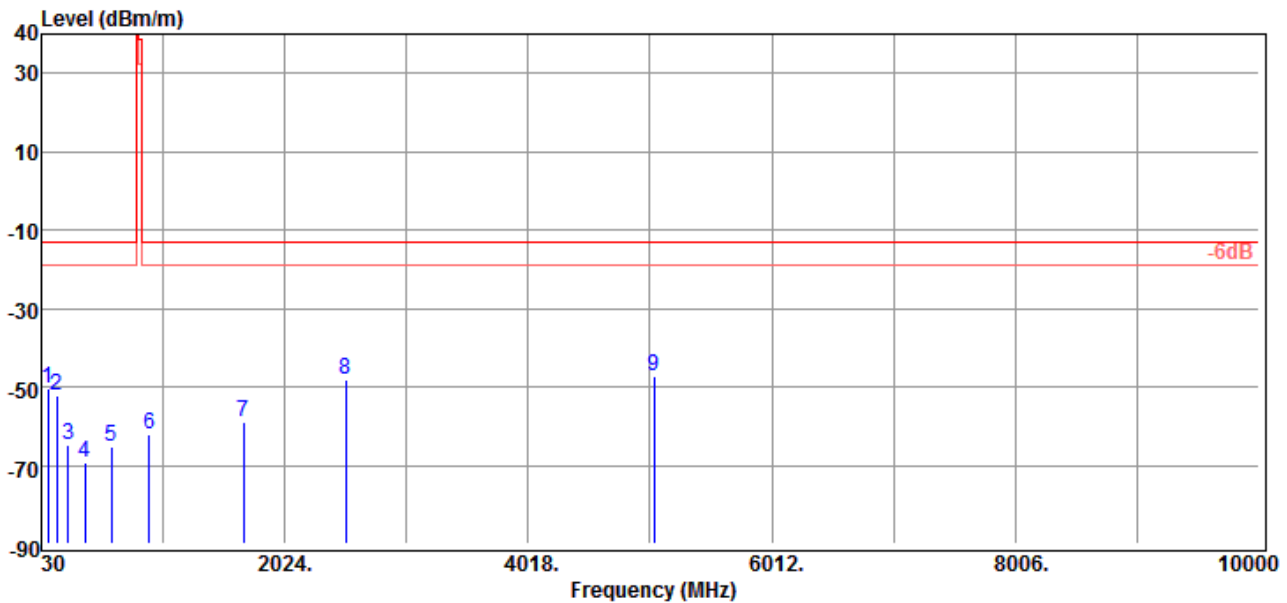
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Operation Mode	:LTE B26 15M QPSK RB1,0	Test Date	:2018-08-15
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E1	Antenna Pol.	:VERTICAL
Test Channel	:841.5 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
82.38	-50.46	-50.17	0.50	-0.79	-13.00	-37.46
155.13	-52.27	-54.17	2.92	-1.02	-13.00	-39.27
251.16	-65.00	-68.75	5.19	-1.44	-13.00	-52.00
385.99	-69.40	-73.00	5.61	-2.01	-13.00	-56.40
605.21	-65.06	-69.59	6.69	-2.16	-13.00	-52.06
912.70	-62.03	-67.13	7.61	-2.51	-13.00	-49.03
1683.00	-58.86	-63.93	8.94	-3.87	-13.00	-45.86
2524.50	-48.39	-54.72	10.73	-4.40	-13.00	-35.39
5049.00	-47.23	-53.00	12.55	-6.78	-13.00	-34.23

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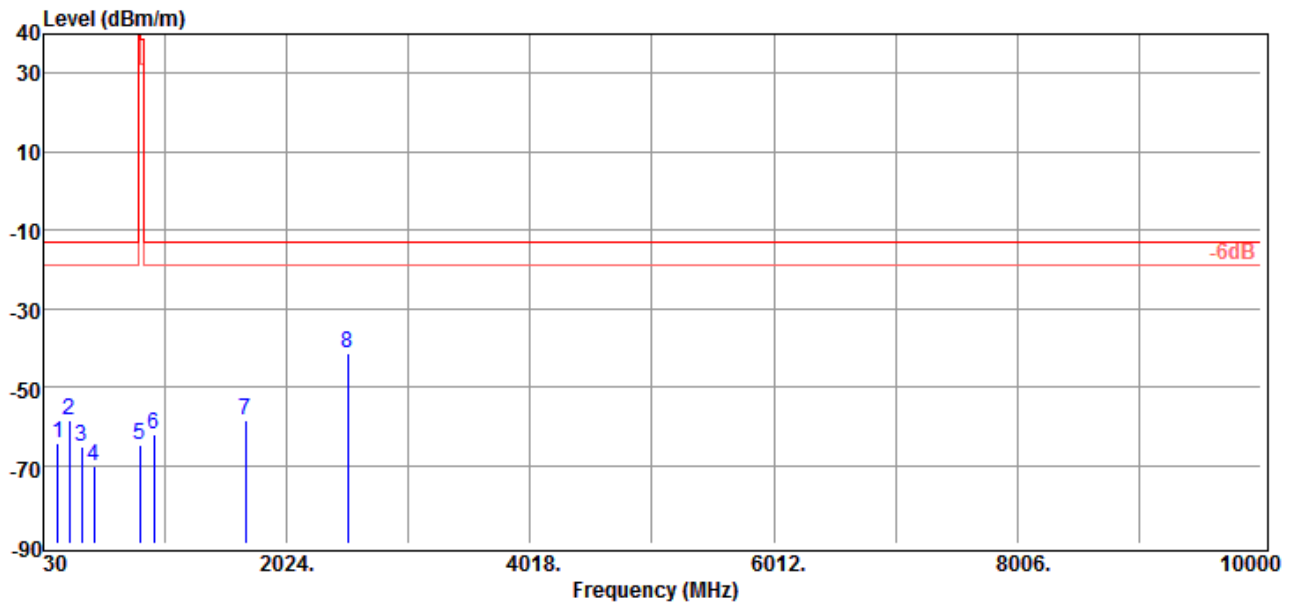
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Operation Mode	:LTE B26 15M QPSK RB1,0	Test Date	:2018-08-15
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E1	Antenna Pol.	:HORIZONTAL
Test Channel	:841.5 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
148.34	-64.35	-65.79	2.44	-1.00	-13.00	-51.35
240.49	-58.63	-62.51	5.28	-1.40	-13.00	-45.63
347.19	-65.42	-69.28	5.79	-1.93	-13.00	-52.42
446.13	-70.12	-74.09	6.03	-2.06	-13.00	-57.12
822.49	-64.62	-69.76	7.54	-2.40	-13.00	-51.62
936.95	-62.06	-67.05	7.64	-2.65	-13.00	-49.06
1683.00	-58.46	-63.53	8.94	-3.87	-13.00	-45.46
2524.50	-41.41	-47.74	10.73	-4.40	-13.00	-28.41

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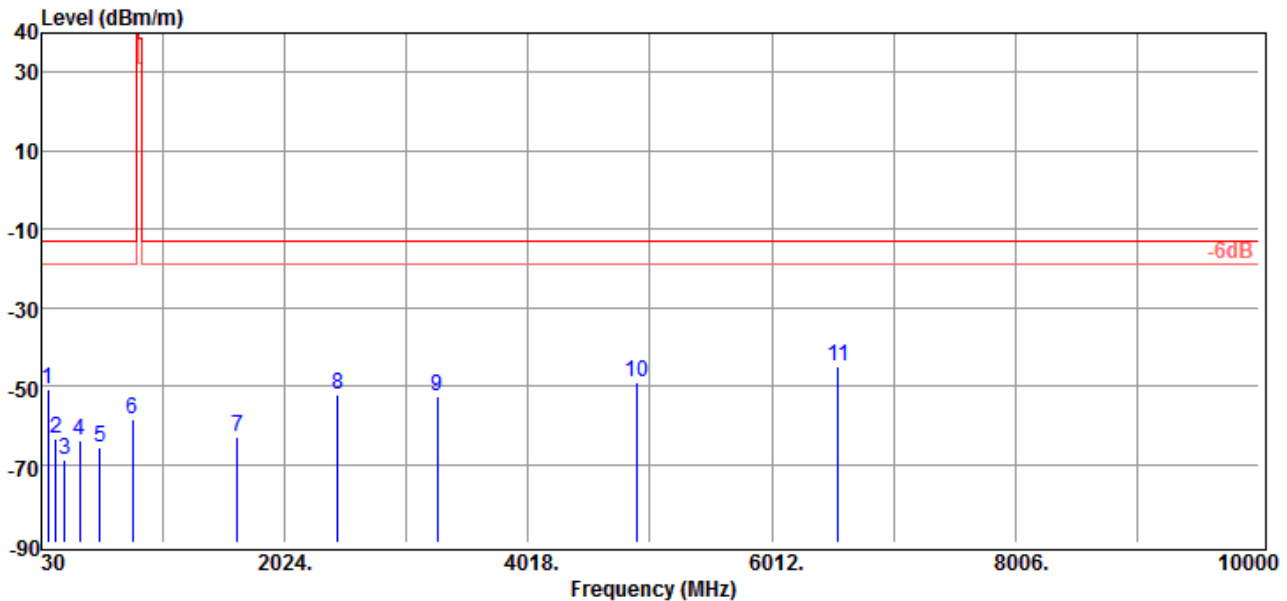
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Radiated Spurious Emission Measurement Result: LTE-Band 26 for Part 90S (The Worst Case)

Operation Mode	:LTE Part90 10M QPSK	Test Date	:2018-08-15
	RB1,0		
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E1	Antenna Pol.	:VERTICAL
Test Channel	:819 MHz	Engineer	:Enzo



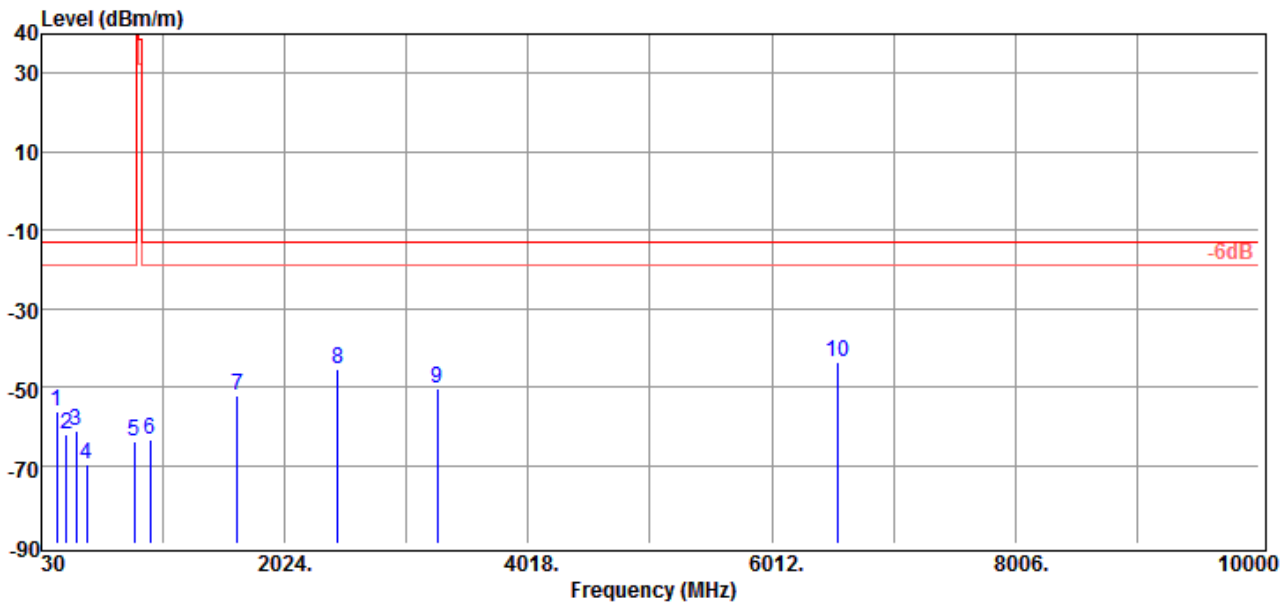
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
83.35	-51.08	-50.72	0.43	-0.79	-13.00	-38.08
147.37	-63.57	-64.96	2.38	-0.99	-13.00	-50.57
219.15	-69.07	-73.31	5.56	-1.32	-13.00	-56.07
340.40	-63.90	-67.81	5.80	-1.89	-13.00	-50.90
512.09	-65.80	-69.52	6.27	-2.55	-13.00	-52.80
777.87	-58.47	-63.70	7.50	-2.27	-13.00	-45.47
1638.00	-63.11	-68.03	8.74	-3.82	-13.00	-50.11
2457.00	-52.22	-58.50	10.66	-4.38	-13.00	-39.22
3276.00	-52.75	-58.71	11.87	-5.91	-13.00	-39.75
4914.00	-49.10	-54.85	12.52	-6.77	-13.00	-36.10
6552.00	-45.13	-49.91	12.27	-7.49	-13.00	-32.13

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Operation Mode	:LTE Part90 10M QPSK	Test Date	:2018-08-15
	RB1,0		
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E1	Antenna Pol.	:HORIZONTAL
Test Channel	:819 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
156.10	-56.27	-58.23	2.99	-1.03	-13.00	-43.27
234.67	-62.00	-65.98	5.36	-1.38	-13.00	-49.00
318.09	-61.10	-65.19	5.83	-1.74	-13.00	-48.10
399.57	-69.90	-73.41	5.55	-2.04	-13.00	-56.90
793.39	-64.03	-69.19	7.55	-2.39	-13.00	-51.03
924.34	-63.26	-68.30	7.62	-2.58	-13.00	-50.26
1638.00	-52.15	-57.07	8.74	-3.82	-13.00	-39.15
2457.00	-45.51	-51.79	10.66	-4.38	-13.00	-32.51
3276.00	-50.37	-56.33	11.87	-5.91	-13.00	-37.37
6552.00	-43.86	-48.64	12.27	-7.49	-13.00	-30.86

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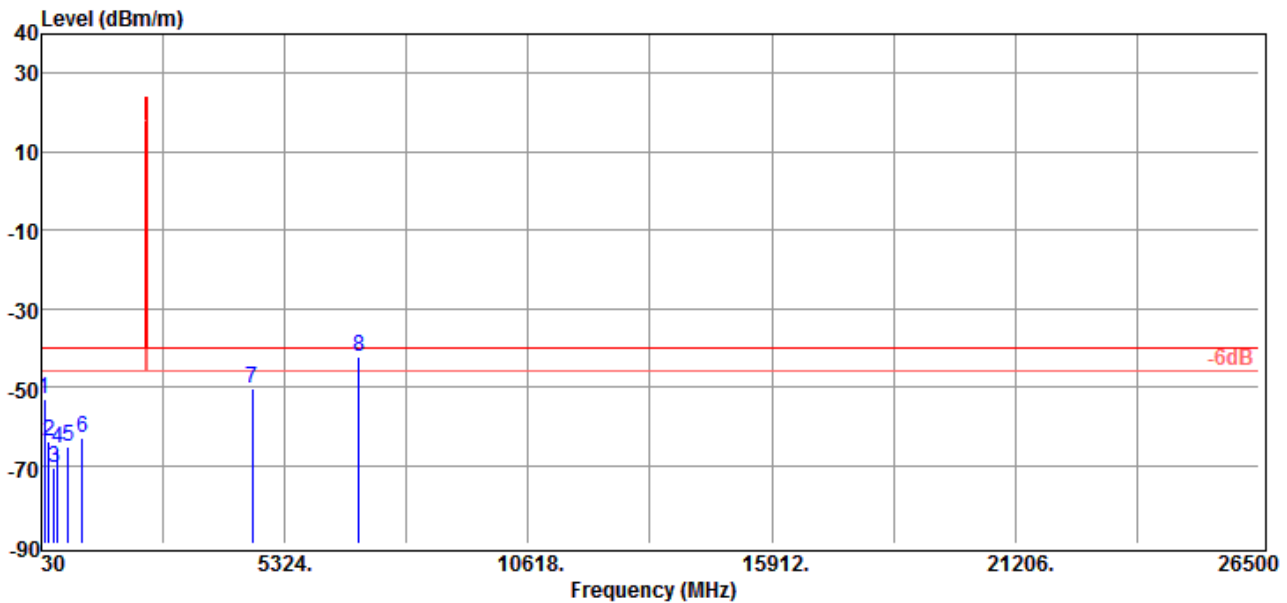
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Radiated Spurious Emission Measurement Result: LTE-Band 30 (The Worst Case)

Operation Mode	:LTE B30 10M QPSK RB1,0	Test Date	:2018-08-14
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E1	Antenna Pol.	:VERTICAL
Test Channel	:2310 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
105.66	-53.08	-51.77	-0.43	-0.88	-13.00	-40.08
200.72	-63.73	-68.31	5.82	-1.24	-13.00	-50.73
300.63	-70.72	-74.95	5.85	-1.62	-13.00	-57.72
376.29	-65.68	-69.34	5.66	-2.00	-13.00	-52.68
605.21	-65.06	-69.59	6.69	-2.16	-13.00	-52.06
927.25	-62.82	-67.85	7.63	-2.60	-13.00	-49.82
4620.00	-50.59	-56.61	12.58	-6.56	-40.00	-10.59
6930.00	-42.48	-47.28	12.04	-7.24	-40.00	-2.48

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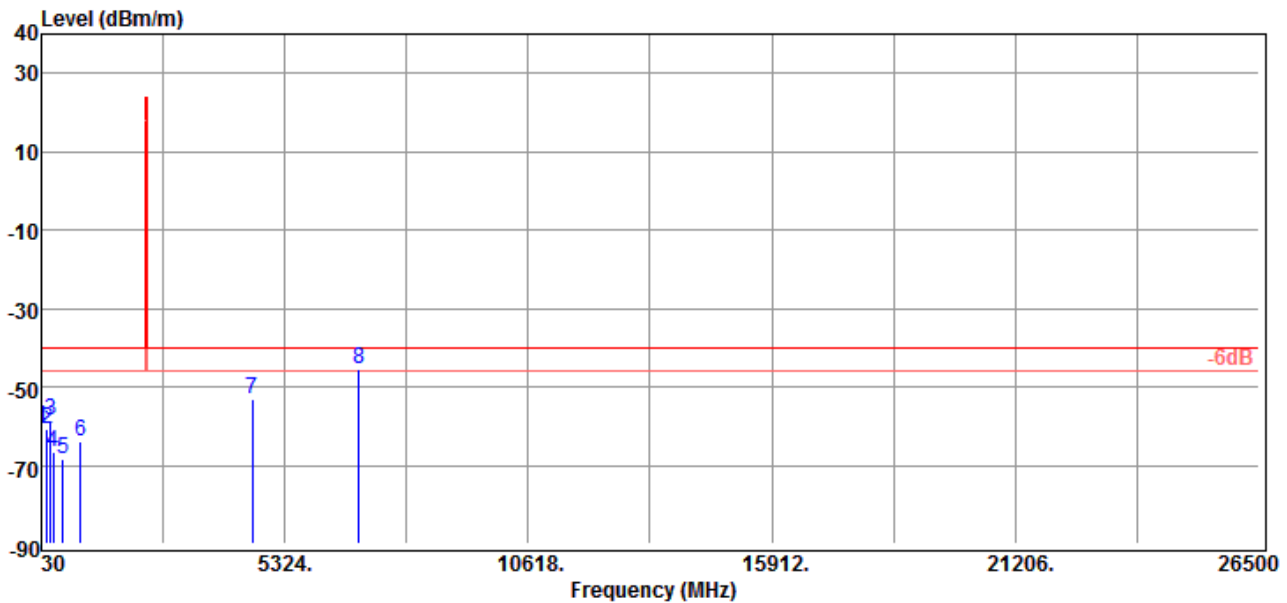
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Operation Mode	:LTE B30 10M QPSK RB1,0	Test Date	:2018-08-14
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E1	Antenna Pol.	:HORIZONTAL
Test Channel	:2310 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
33.88	-60.49	-43.36	-16.63	-0.50	-13.00	-47.49
150.28	-60.59	-62.14	2.55	-1.00	-13.00	-47.59
239.52	-58.40	-62.30	5.30	-1.40	-13.00	-45.40
293.84	-66.40	-70.57	5.77	-1.60	-13.00	-53.40
498.51	-68.31	-71.99	6.28	-2.60	-13.00	-55.31
890.39	-63.86	-69.01	7.57	-2.42	-13.00	-50.86
4620.00	-52.95	-58.97	12.58	-6.56	-40.00	-12.95
6930.00	-45.63	-50.43	12.04	-7.24	-40.00	-5.63

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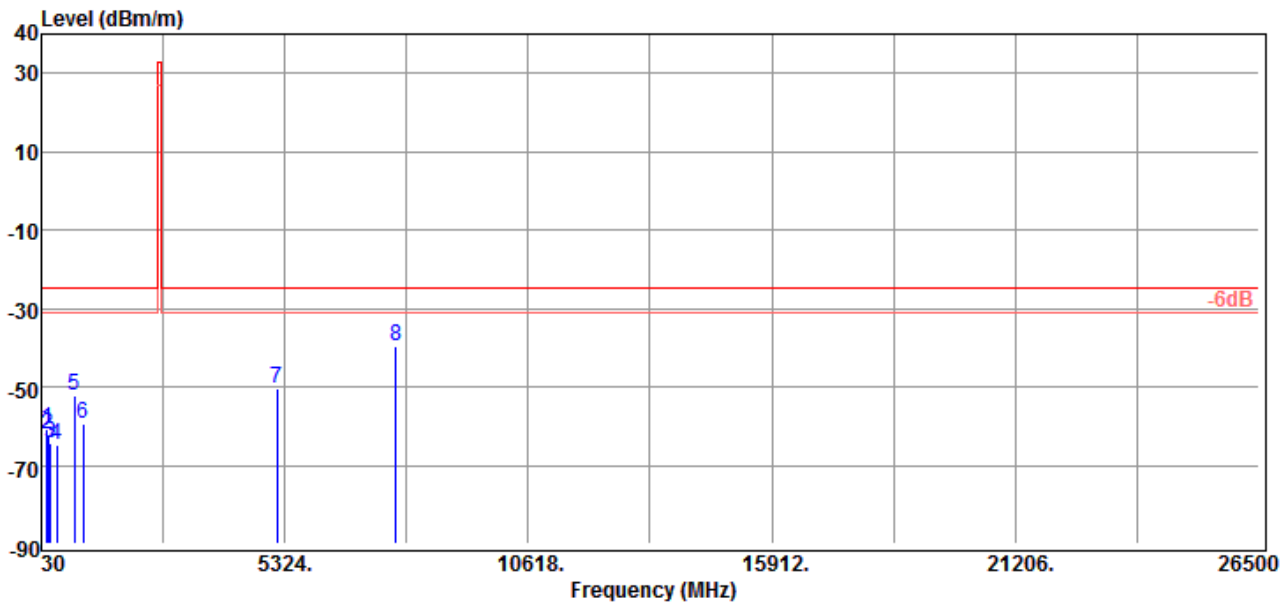
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Radiated Spurious Emission Measurement Result: LTE-Band 38 (The Worst Case)

Operation Mode	:LTE B38 15M QPSK RB1,0	Test Date	:2018-08-14
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E1	Antenna Pol.	:VERTICAL
Test Channel	:2577.5 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
149.31	-60.70	-62.19	2.49	-1.00	-13.00	-47.70
174.53	-61.93	-65.08	4.27	-1.12	-13.00	-48.93
237.58	-64.34	-68.27	5.32	-1.39	-13.00	-51.34
362.71	-64.60	-68.36	5.73	-1.97	-13.00	-51.60
747.80	-52.10	-57.45	7.41	-2.06	-13.00	-39.10
935.01	-59.46	-64.46	7.64	-2.64	-13.00	-46.46
5155.00	-50.54	-56.53	12.66	-6.67	-25.00	-25.54
7732.50	-39.60	-43.36	11.30	-7.54	-25.00	-14.60

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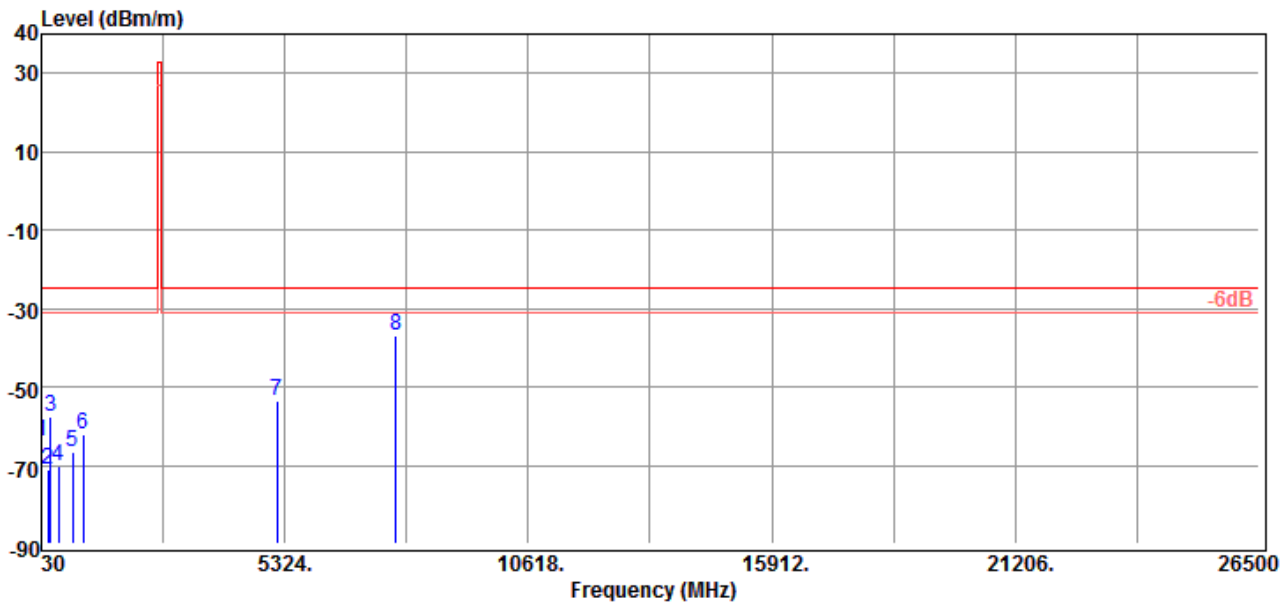
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Operation Mode	:LTE B38 15M QPSK RB1,0	Test Date	:2018-08-14
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E1	Antenna Pol.	:HORIZONTAL
Test Channel	:2577.5 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
37.76	-63.76	-49.63	-13.57	-0.56	-13.00	-50.76
180.35	-71.12	-74.61	4.64	-1.15	-13.00	-58.12
236.61	-57.78	-61.72	5.33	-1.39	-13.00	-44.78
401.51	-70.14	-73.67	5.57	-2.04	-13.00	-57.14
709.97	-66.64	-71.73	7.33	-2.24	-13.00	-53.64
936.95	-62.06	-67.05	7.64	-2.65	-13.00	-49.06
5155.00	-53.38	-59.37	12.66	-6.67	-25.00	-28.38
7732.50	-36.98	-40.74	11.30	-7.54	-25.00	-11.98

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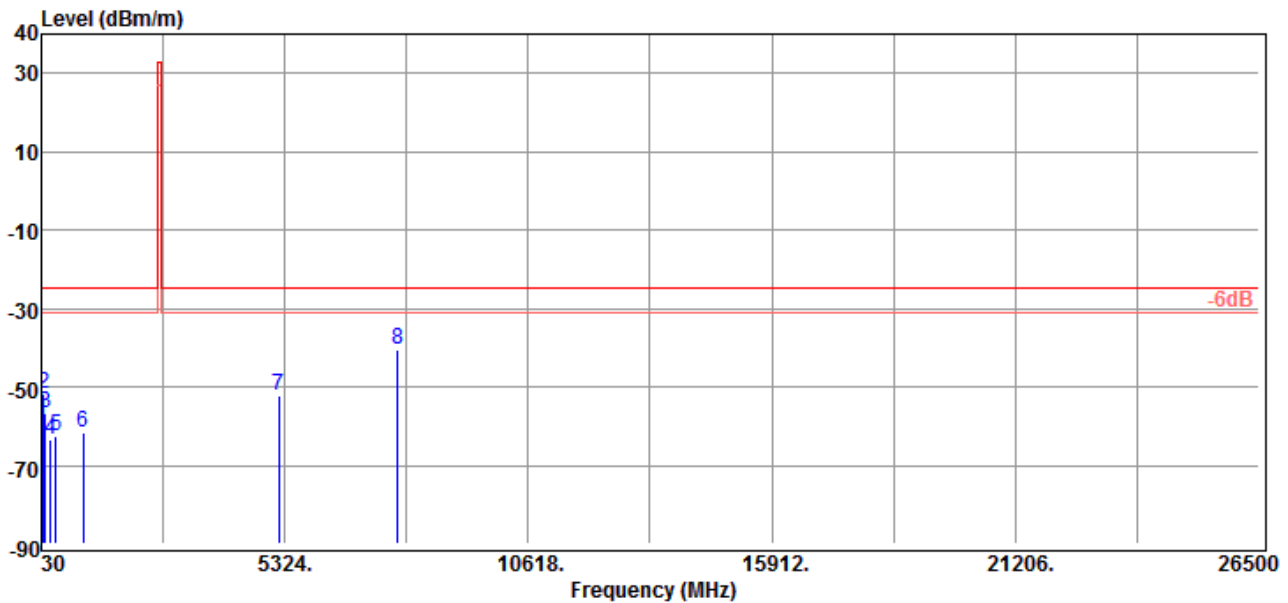
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Operation Mode	:LTE B38 15M QPSK RB1,0	Test Date	:2018-08-14
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E1	Antenna Pol.	:VERTICAL
Test Channel	:2595 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
33.88	-58.98	-41.85	-16.63	-0.50	-13.00	-45.98
87.23	-51.85	-51.22	0.17	-0.80	-13.00	-38.85
116.33	-56.70	-56.18	0.39	-0.91	-13.00	-43.70
240.49	-63.25	-67.13	5.28	-1.40	-13.00	-50.25
353.98	-62.56	-66.37	5.77	-1.96	-13.00	-49.56
938.89	-61.80	-66.77	7.64	-2.67	-13.00	-48.80
5190.00	-52.30	-58.36	12.70	-6.64	-25.00	-27.30
7785.00	-40.58	-44.28	11.30	-7.60	-25.00	-15.58

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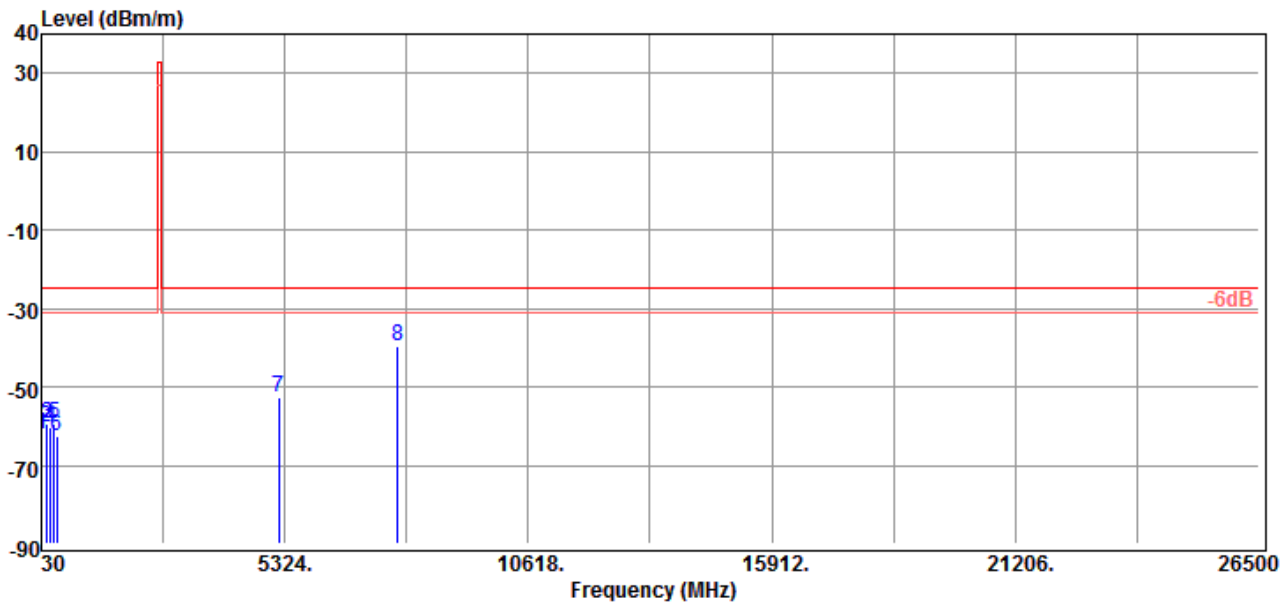
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Operation Mode	:LTE B38 15M QPSK RB1,0	Test Date	:2018-08-14
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E1	Antenna Pol.	:HORIZONTAL
Test Channel	:2595 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.79	-62.24	-47.38	-14.31	-0.55	-13.00	-49.24
132.82	-60.29	-60.84	1.50	-0.95	-13.00	-47.29
161.92	-59.46	-61.81	3.41	-1.06	-13.00	-46.46
227.88	-60.24	-64.33	5.44	-1.35	-13.00	-47.24
303.54	-59.60	-63.81	5.85	-1.64	-13.00	-46.60
368.53	-62.41	-66.13	5.70	-1.98	-13.00	-49.41
5190.00	-52.47	-58.53	12.70	-6.64	-25.00	-27.47
7785.00	-39.55	-43.25	11.30	-7.60	-25.00	-14.55

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Operation Mode	:LTE B38 15M QPSK RB1,0	Test Date	:2018-08-14
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E1	Antenna Pol.	:VERTICAL
Test Channel	:2612.5 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
82.38	-50.46	-50.17	0.50	-0.79	-13.00	-37.46
150.28	-58.59	-60.14	2.55	-1.00	-13.00	-45.59
222.06	-65.42	-69.61	5.52	-1.33	-13.00	-52.42
349.13	-62.99	-66.84	5.79	-1.94	-13.00	-49.99
695.42	-63.22	-68.18	7.27	-2.31	-13.00	-50.22
875.84	-61.74	-66.89	7.55	-2.40	-13.00	-48.74
5225.00	-51.91	-58.03	12.73	-6.61	-25.00	-26.91

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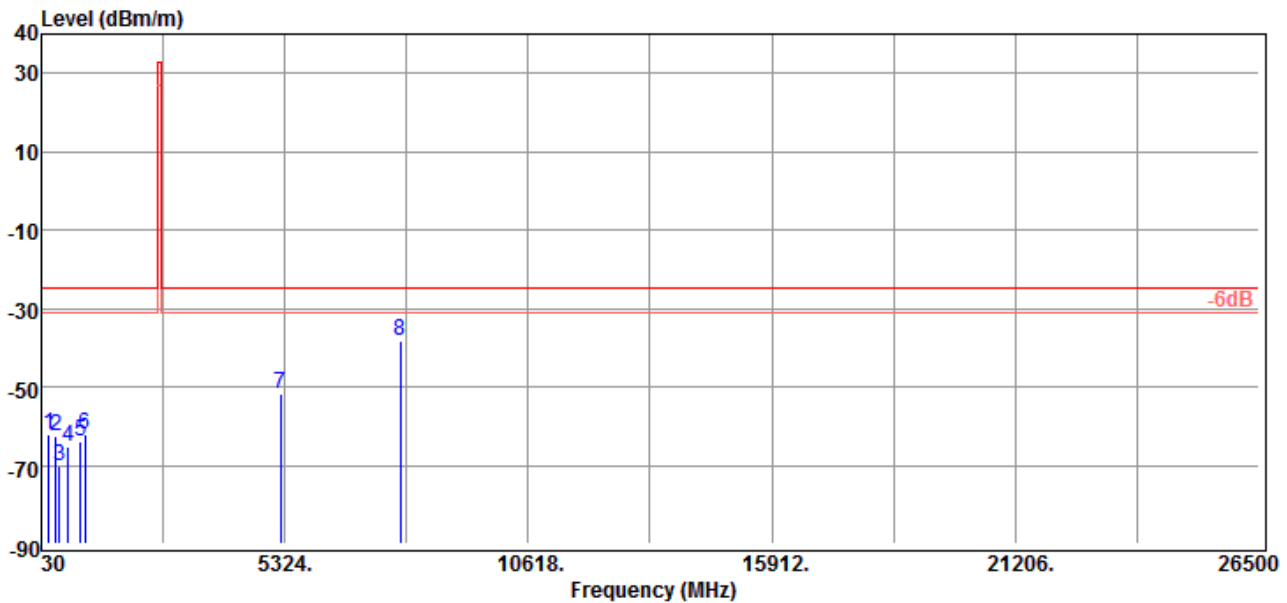
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Operation Mode	:LTE B38 15M QPSK RB1,0	Test Date	:2018-08-14
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E1	Antenna Pol.	:HORIZONTAL
Test Channel	:2612.5 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
191.02	-62.07	-66.17	5.30	-1.20	-13.00	-49.07
353.98	-62.50	-66.31	5.77	-1.96	-13.00	-49.50
425.76	-69.99	-73.77	5.83	-2.05	-13.00	-56.99
615.88	-65.31	-69.80	6.74	-2.25	-13.00	-52.31
872.93	-63.85	-68.99	7.54	-2.40	-13.00	-50.85
968.96	-61.96	-66.85	7.72	-2.83	-13.00	-48.96
5225.00	-51.84	-57.96	12.73	-6.61	-25.00	-26.84
7837.50	-38.27	-41.92	11.30	-7.65	-25.00	-13.27

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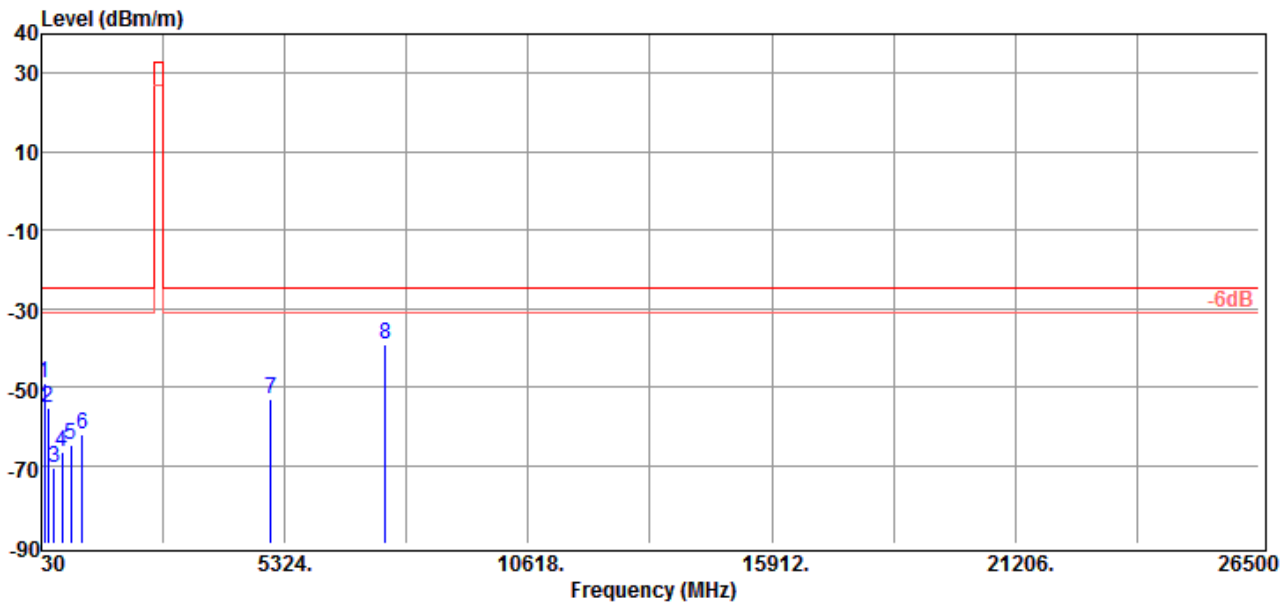
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Radiated Spurious Emission Measurement Result: LTE-Band 41 (The Worst Case)

Operation Mode	:LTE B41 20M QPSK RB1,0	Test Date	:2018-08-14
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E1	Antenna Pol.	:VERTICAL
Test Channel	:2506 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
92.08	-49.00	-47.98	-0.20	-0.82	-13.00	-36.00
165.80	-55.39	-57.99	3.68	-1.08	-13.00	-42.39
302.57	-70.67	-74.88	5.85	-1.64	-13.00	-57.67
474.26	-66.53	-70.38	6.18	-2.33	-13.00	-53.53
668.26	-64.60	-69.18	7.03	-2.45	-13.00	-51.60
920.46	-62.15	-67.21	7.62	-2.56	-13.00	-49.15
5012.00	-53.20	-58.89	12.51	-6.82	-25.00	-28.20
7518.00	-39.01	-42.99	11.30	-7.32	-25.00	-14.01

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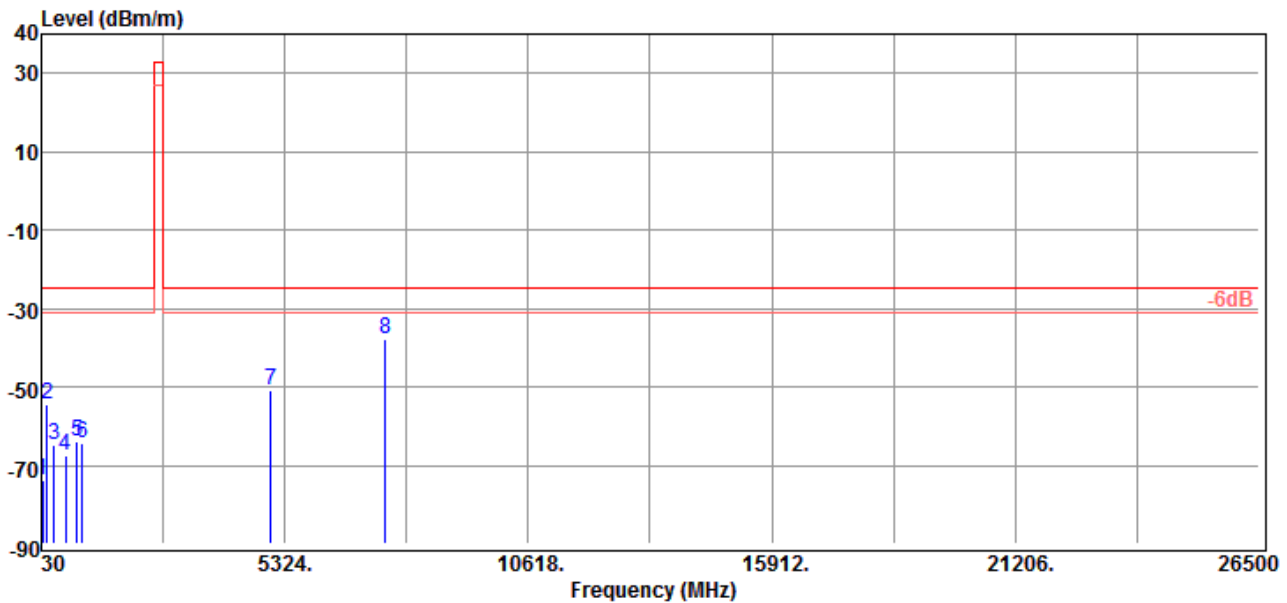
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f (886-2) 2298-0488

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Operation Mode	:LTE B41 20M QPSK RB1,0	Test Date	:2018-08-14
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E1	Antenna Pol.	:HORIZONTAL
Test Channel	:2506 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
61.04	-73.72	-72.38	-0.68	-0.66	-13.00	-60.72
159.98	-54.68	-56.90	3.27	-1.05	-13.00	-41.68
302.57	-64.89	-69.10	5.85	-1.64	-13.00	-51.89
550.89	-67.46	-71.34	6.23	-2.35	-13.00	-54.46
814.73	-64.04	-69.17	7.55	-2.42	-13.00	-51.04
920.46	-64.25	-69.31	7.62	-2.56	-13.00	-51.25
5012.00	-51.08	-56.77	12.51	-6.82	-25.00	-26.08
7518.00	-37.85	-41.83	11.30	-7.32	-25.00	-12.85

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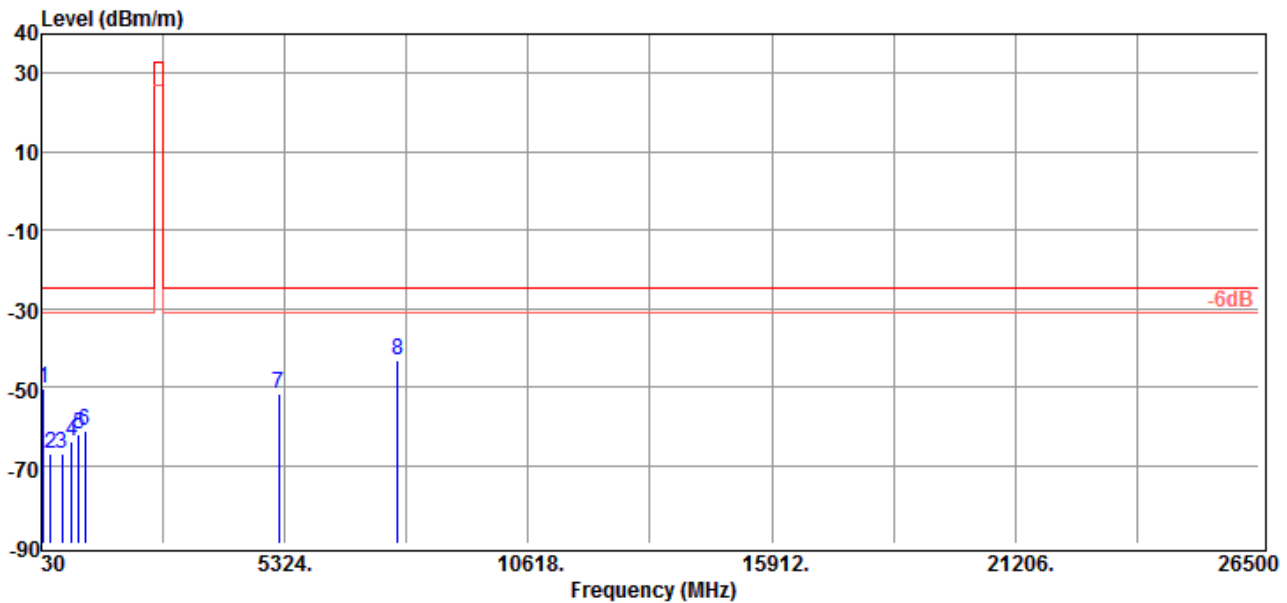
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Operation Mode	:LTE B41 20M QPSK RB1,0	Test Date	:2018-08-14
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E1	Antenna Pol.	:VERTICAL
Test Channel	:2593 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
85.29	-50.37	-49.87	0.30	-0.80	-13.00	-37.37
223.03	-67.03	-71.21	5.51	-1.33	-13.00	-54.03
484.93	-67.01	-70.79	6.23	-2.45	-13.00	-54.01
688.63	-63.83	-68.69	7.21	-2.35	-13.00	-50.83
845.77	-62.18	-67.32	7.51	-2.37	-13.00	-49.18
973.81	-61.18	-66.06	7.73	-2.85	-13.00	-48.18
5186.00	-51.88	-57.93	12.69	-6.64	-25.00	-26.88
7779.00	-43.36	-47.07	11.30	-7.59	-25.00	-18.36

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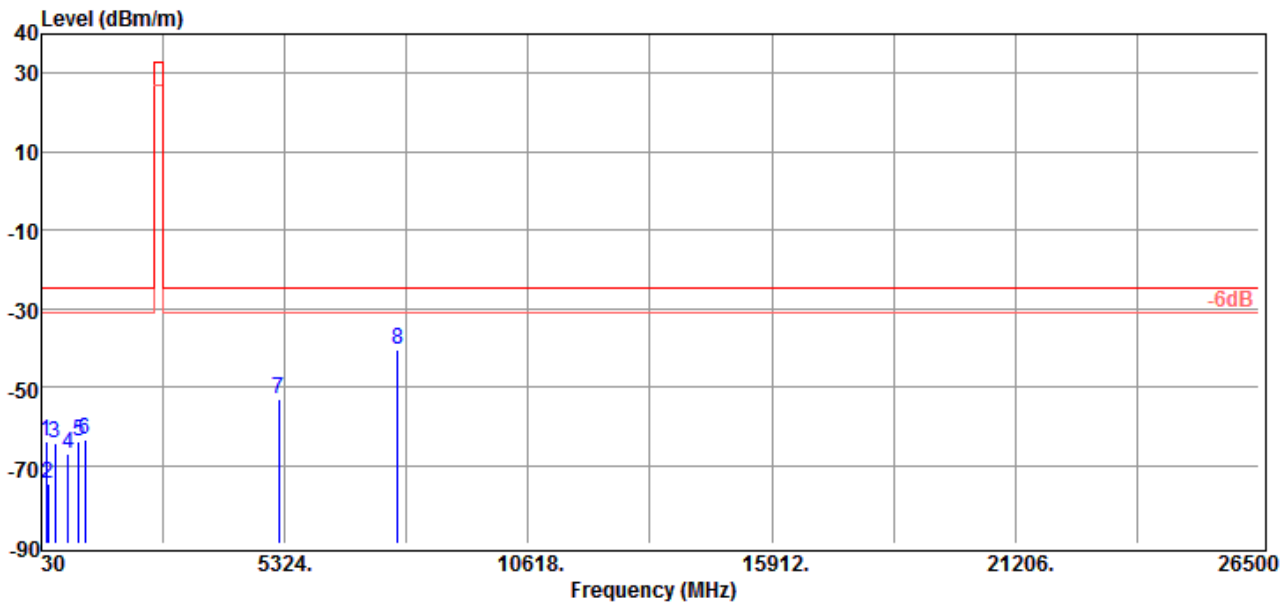
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Operation Mode	:LTE B41 20M QPSK RB1,0	Test Date	:2018-08-14
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E1	Antenna Pol.	:HORIZONTAL
Test Channel	:2593 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
128.94	-63.89	-64.20	1.25	-0.94	-13.00	-50.89
177.44	-74.66	-77.99	4.46	-1.13	-13.00	-61.66
333.61	-64.26	-68.23	5.81	-1.84	-13.00	-51.26
618.79	-66.97	-71.44	6.75	-2.28	-13.00	-53.97
849.65	-63.95	-69.09	7.50	-2.36	-13.00	-50.95
979.63	-63.55	-68.42	7.75	-2.88	-13.00	-50.55
5186.00	-53.01	-59.06	12.69	-6.64	-25.00	-28.01
7779.00	-40.37	-44.08	11.30	-7.59	-25.00	-15.37

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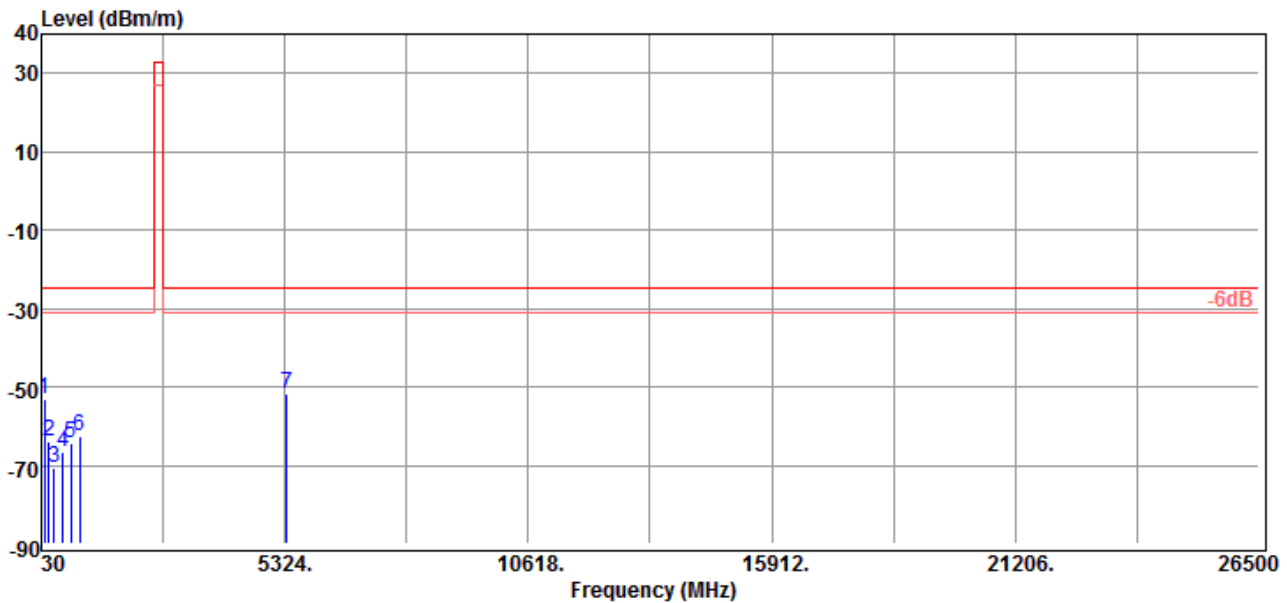
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Operation Mode	:LTE B41 20M QPSK RB1,0	Test Date	:2018-08-14
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E1	Antenna Pol.	:VERTICAL
Test Channel	:2680 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
101.78	-53.01	-51.40	-0.74	-0.87	-13.00	-40.01
185.20	-63.79	-67.57	4.95	-1.17	-13.00	-50.79
303.54	-70.57	-74.78	5.85	-1.64	-13.00	-57.57
490.75	-66.51	-70.24	6.25	-2.52	-13.00	-53.51
677.96	-64.34	-69.06	7.12	-2.40	-13.00	-51.34
870.02	-62.38	-67.53	7.54	-2.39	-13.00	-49.38
5360.00	-51.60	-57.99	12.86	-6.47	-25.00	-26.60

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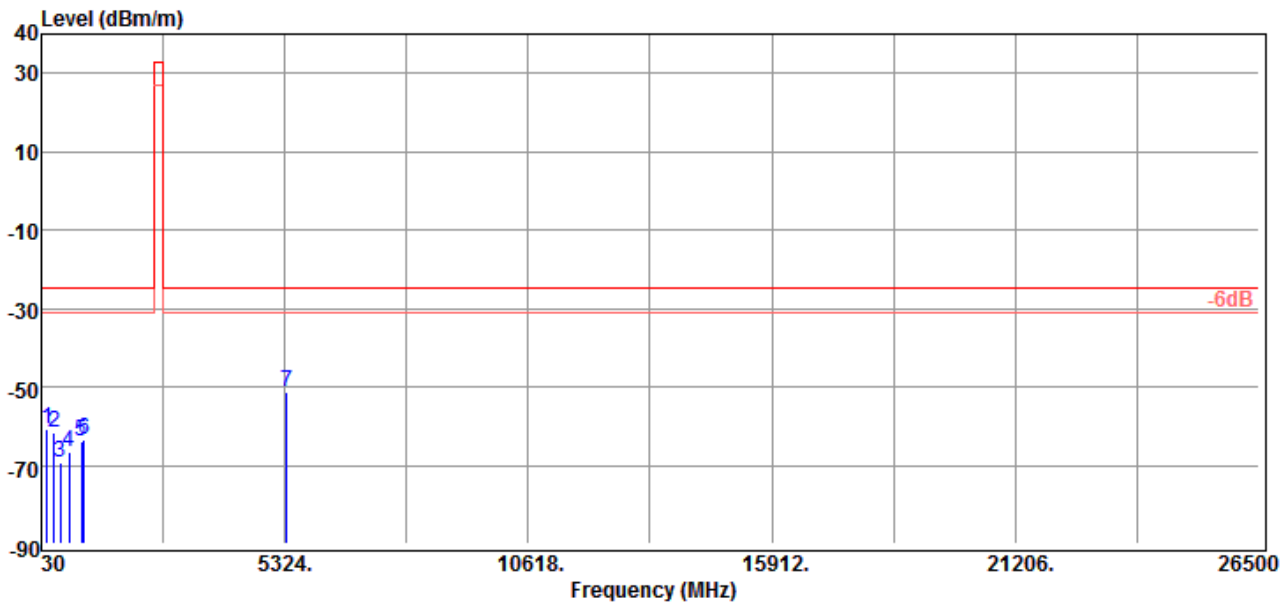
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Operation Mode	:LTE B41 20M QPSK RB1,0	Test Date	:2018-08-14
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E1	Antenna Pol.	:HORIZONTAL
Test Channel	:2680 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
150.28	-60.59	-62.14	2.55	-1.00	-13.00	-47.59
314.21	-61.70	-65.82	5.83	-1.71	-13.00	-48.70
447.10	-69.16	-73.14	6.04	-2.06	-13.00	-56.16
629.46	-66.54	-70.96	6.79	-2.37	-13.00	-53.54
904.94	-63.91	-69.04	7.60	-2.47	-13.00	-50.91
963.14	-63.49	-68.39	7.70	-2.80	-13.00	-50.49
5360.00	-51.32	-57.71	12.86	-6.47	-25.00	-26.32

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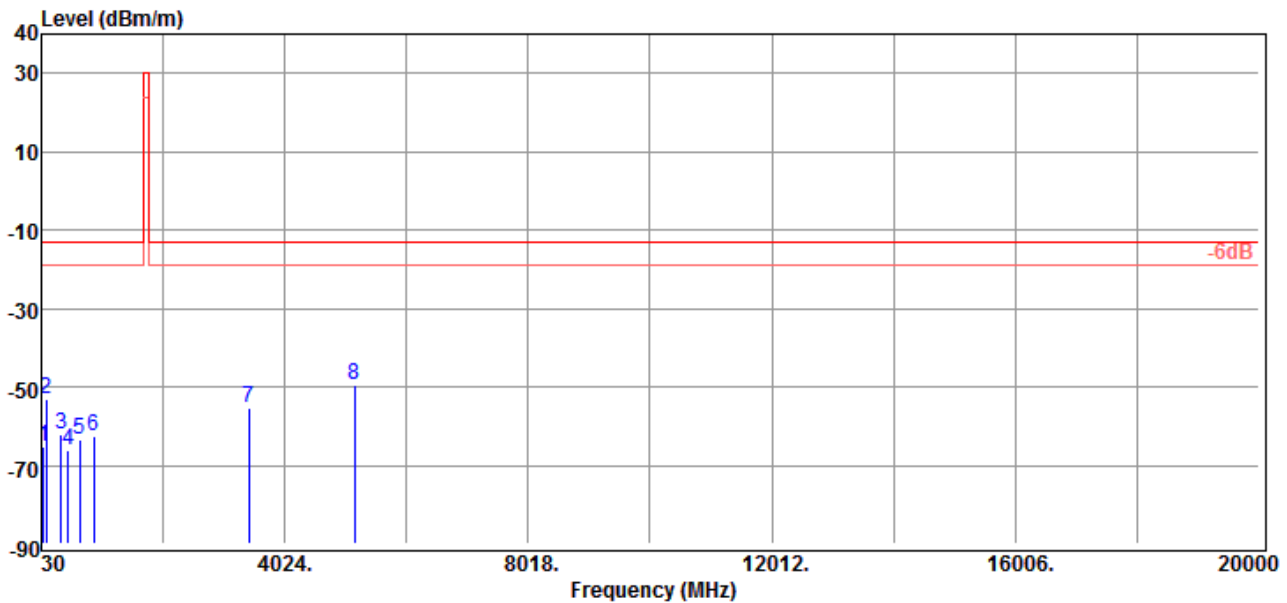
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Radiated Spurious Emission Measurement Result: LTE-Band 66 (The Worst Case)

Operation Mode	:LTE B66 20M QPSK RB1,0	Test Date	:2018-08-14
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E1	Antenna Pol.	:VERTICAL
Test Channel	:1720 MHz	Engineer	:Enzo



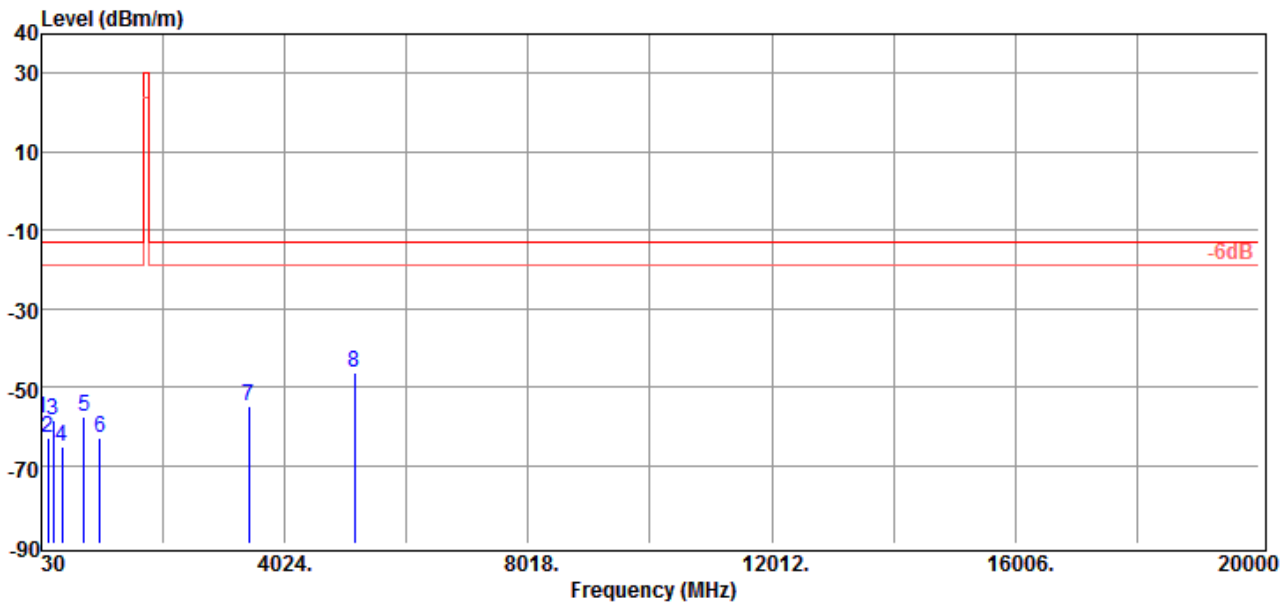
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
61.04	-65.09	-63.75	-0.68	-0.66	-13.00	-52.09
105.66	-53.08	-51.77	-0.43	-0.88	-13.00	-40.08
353.01	-61.97	-65.78	5.77	-1.96	-13.00	-48.97
475.23	-66.32	-70.16	6.18	-2.34	-13.00	-53.32
653.71	-63.66	-68.04	6.90	-2.52	-13.00	-50.66
883.60	-62.48	-67.63	7.56	-2.41	-13.00	-49.48
3440.00	-55.56	-61.03	12.19	-6.72	-13.00	-42.56
5160.00	-49.32	-55.32	12.67	-6.67	-13.00	-36.32

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Operation Mode	:LTE B66 20M QPSK RB1,0	Test Date	:2018-08-14
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E1	Antenna Pol.	:HORIZONTAL
Test Channel	:1720 MHz	Engineer	:Enzo



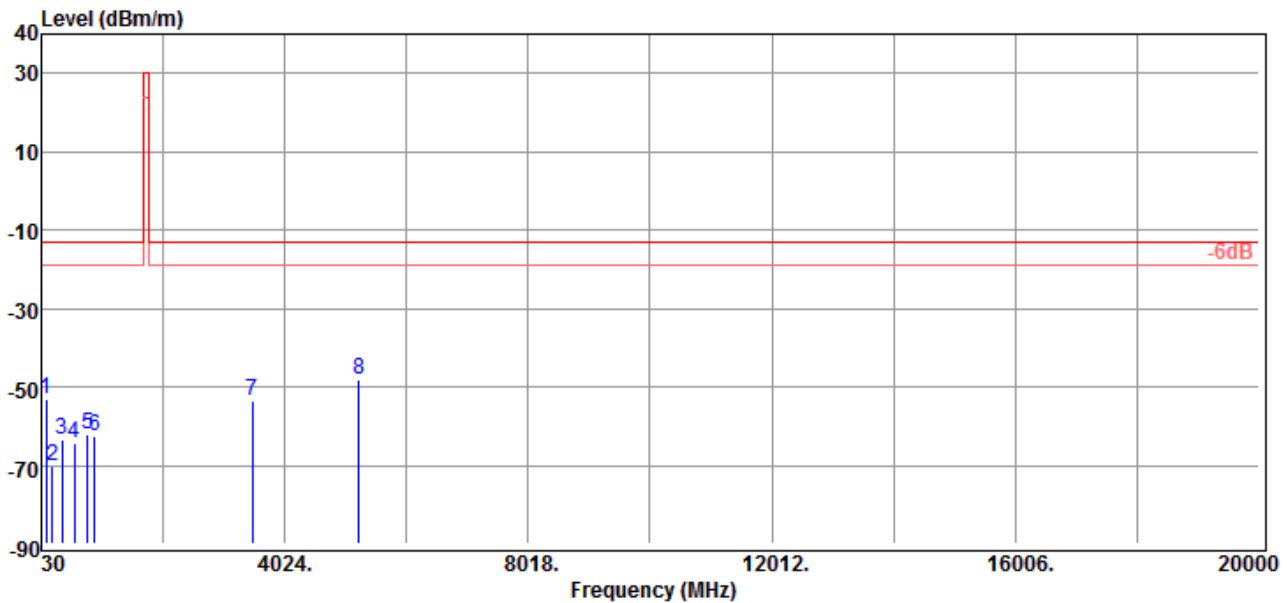
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
30.00	-57.93	-37.44	-20.05	-0.44	-13.00	-44.93
136.70	-62.99	-63.78	1.75	-0.96	-13.00	-49.99
222.06	-58.33	-62.52	5.52	-1.33	-13.00	-45.33
376.29	-65.26	-68.92	5.66	-2.00	-13.00	-52.26
728.40	-57.66	-62.88	7.37	-2.15	-13.00	-44.66
984.48	-63.05	-67.90	7.76	-2.91	-13.00	-50.05
3440.00	-54.74	-60.21	12.19	-6.72	-13.00	-41.74
5160.00	-46.30	-52.30	12.67	-6.67	-13.00	-33.30

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Operation Mode	:LTE B66 20M QPSK RB1,0	Test Date	:2018-08-14
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E1	Antenna Pol.	:VERTICAL
Test Channel	:1745 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
102.75	-53.30	-51.77	-0.66	-0.87	-13.00	-40.30
217.21	-70.16	-74.44	5.59	-1.31	-13.00	-57.16
365.62	-63.64	-67.37	5.71	-1.98	-13.00	-50.64
572.23	-64.44	-68.61	6.42	-2.25	-13.00	-51.44
795.33	-61.98	-67.14	7.56	-2.40	-13.00	-48.98
907.85	-62.47	-67.58	7.60	-2.49	-13.00	-49.47
3490.00	-53.54	-58.86	12.28	-6.96	-13.00	-40.54
5235.00	-48.02	-54.17	12.74	-6.59	-13.00	-35.02

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Operation Mode	:LTE B66 20M QPSK RB1,0	Test Date	:2018-08-14
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E1	Antenna Pol.	:HORIZONTAL
Test Channel	:1745 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
92.08	-66.85	-65.83	-0.20	-0.82	-13.00	-53.85
236.61	-57.78	-61.72	5.33	-1.39	-13.00	-44.78
379.20	-67.73	-71.38	5.65	-2.00	-13.00	-54.73
545.07	-67.38	-71.23	6.23	-2.38	-13.00	-54.38
704.15	-66.72	-71.77	7.32	-2.27	-13.00	-53.72
801.15	-64.42	-69.55	7.57	-2.44	-13.00	-51.42
3490.00	-54.58	-59.90	12.28	-6.96	-13.00	-41.58
5235.00	-43.92	-50.07	12.74	-6.59	-13.00	-30.92

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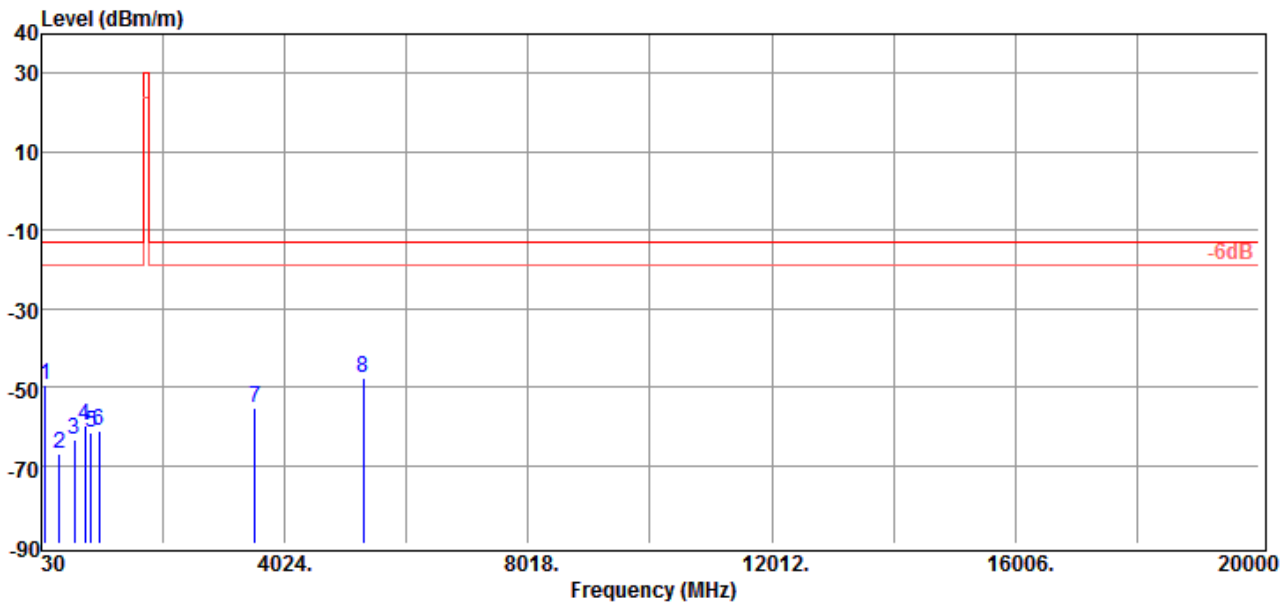
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Operation Mode	:LTE B66 20M QPSK RB1,0	Test Date	:2018-08-14
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E1	Antenna Pol.	:VERTICAL
Test Channel	:1770 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
88.20	-49.66	-48.96	0.11	-0.81	-13.00	-36.66
328.76	-67.19	-71.19	5.81	-1.81	-13.00	-54.19
567.38	-63.64	-67.75	6.38	-2.27	-13.00	-50.64
741.98	-59.99	-65.29	7.39	-2.09	-13.00	-46.99
849.65	-61.79	-66.93	7.50	-2.36	-13.00	-48.79
974.78	-61.42	-66.30	7.74	-2.86	-13.00	-48.42
3540.00	-55.23	-60.60	12.33	-6.96	-13.00	-42.23
5310.00	-47.86	-54.16	12.82	-6.52	-13.00	-34.86

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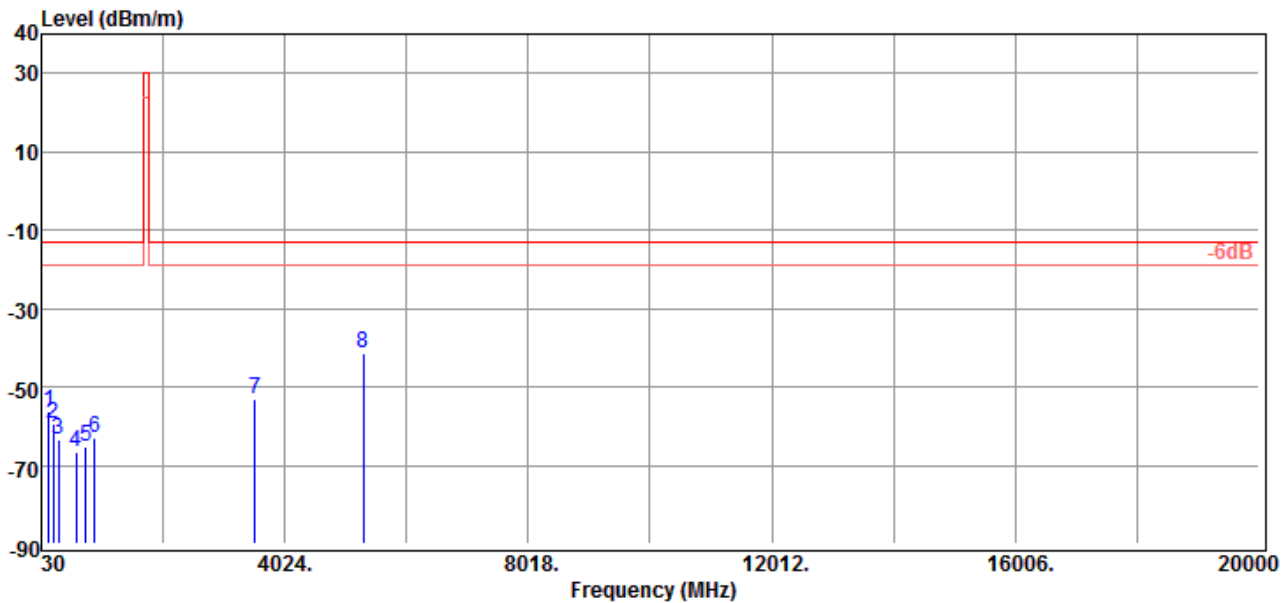
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Operation Mode	:LTE B66 20M QPSK RB1,0	Test Date	:2018-08-14
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E1	Antenna Pol.	:HORIZONTAL
Test Channel	:1770 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
156.10	-56.27	-58.23	2.99	-1.03	-13.00	-43.27
220.12	-59.47	-63.70	5.55	-1.32	-13.00	-46.47
317.12	-63.54	-67.64	5.83	-1.73	-13.00	-50.54
604.24	-66.70	-71.23	6.69	-2.16	-13.00	-53.70
766.23	-65.22	-70.50	7.46	-2.18	-13.00	-52.22
903.00	-62.85	-67.98	7.59	-2.46	-13.00	-49.85
3540.00	-53.15	-58.52	12.33	-6.96	-13.00	-40.15
5310.00	-41.39	-47.69	12.82	-6.52	-13.00	-28.39

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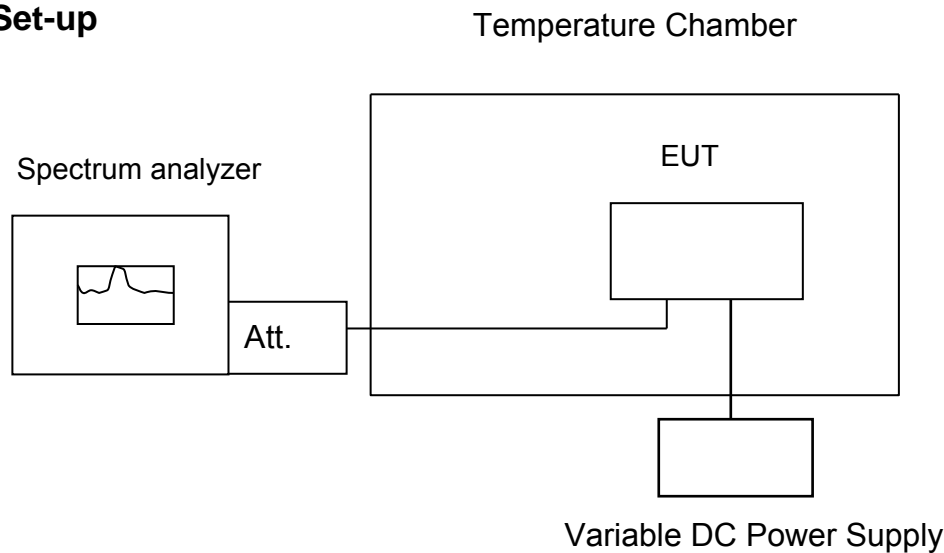
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11. FREQUENCY STABILITY MEASUREMENT

11.1. Standard Applicable

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

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.

11.4. Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	N9010A	MY51440113	2018/06/20	2019/06/19
Radio Communication Analyer	Anritsu	MT8820C	6201107337	2018/06/15	2019/06/14
DC Power Supply	Agilent	E3640A	MY53130054	2017/09/04	2018/09/03
Attenuator	Marvelous	MVE2213-10	RF30	2017/12/26	2018/12/25
Splitter	Woken	DOM35LW1 A2	RF36	2017/12/26	2018/12/25

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11.5. Measurement Result

WCDMA II Mid Channel 1880 MHz					Frequency range (MHz)
Limit: +/- 2.5 ppm					
Vdc	Temp. ()	Freq. (MHz)	Delta (Hz)	Limit (Hz)	
FREQUENCY ERROR vs. VOLTAGE					1850-1910
8.809	20	1879.999898	-102	4700	
7.66	20	1879.999895	-105	4700	
6.894	20	1879.999882	-118	4700	
5.8(End point)	20	1879.999888	-112	4700	
FREQUENCY ERROR vs. Temp.					
7.66	50	1879.999917	-83	4700	
7.66	40	1879.999905	-95	4700	
7.66	30	1879.999884	-116	4700	
7.66	20	1879.999895	-105	4700	
7.66	10	1879.999896	-104	4700	
7.66	0	1879.999901	-99	4700	
7.66	-10	1879.999892	-108	4700	
7.66	-20	1879.99988	-120	4700	
7.66	-30	1879.99991	-90	4700	

WCDMA V Mid Channel 836.6 MHz					Frequency range (MHz)
Limit: +/- 2.5 ppm					
Vdc	Temp. ()	Freq. (MHz)	Delta (Hz)	Limit (Hz)	
FREQUENCY ERROR vs. VOLTAGE					824-849
8.809	20	836.599975	-25	2091	
7.66	20	836.599972	-28	2091	
6.894	20	836.599981	-19	2091	
5.8(End point)	20	836.599947	-53	2091	
FREQUENCY ERROR vs. Temp.					
7.66	50	836.599963	-37	2091	
7.66	40	836.599957	-43	2091	
7.66	30	836.599959	-41	2091	
7.66	20	836.599972	-28	2091	
7.66	10	836.599974	-26	2091	
7.66	0	836.599992	-8	2091	
7.66	-10	836.599992	-8	2091	
7.66	-20	836.599996	-4	2091	
7.66	-30	836.599963	-37	2091	

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Reference Freq.: LTE B2 Mid Channel 1880 MHz 20M QPSK CH 18900					Frequency range (MHz)
Power Supply Vdc	Temp. ()	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)	
Freq. ERROR vs. VOLTAGE					
8.8	25	1880.000022	22	4700	
7.66	25	1880.000016	16	4700	
6.894	25	1880.000011	11	4700	
5.8 (End Point)	25	1879.999996	-4	4700	
Freq. ERROR vs. Temp.					
7.66	-30	1879.999979	-21	4700	
7.66	-20	1879.999994	-6	4700	
7.66	-10	1879.999986	-14	4700	
7.66	0	1880.000012	12	4700	
7.66	10	1880.000005	5.0000001	4700	
7.66	20	1879.999981	-19	4700	
7.66	30	1879.999976	-24	4700	
7.66	40	1880.000014	14	4700	
7.66	50	1880.000011	11	4700	

Reference Freq.: LTE B4 Mid Channel 1732.5 MHz 20M QPSK CH 20175					Frequency range (MHz)
Power Supply Vdc	Temp. ()	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)	
Freq. ERROR vs. VOLTAGE					
8.8	25	1732.499976	-24	4331	
7.66	25	1732.500017	17	4331	
6.894	25	1732.500021	21	4331	
5.8 (End Point)	25	1732.499982	-18	4331	
Freq. ERROR vs. Temp.					
7.66	-30	1732.500013	13	4331	
7.66	-20	1732.500007	7.0000001	4331	
7.66	-10	1732.500024	24	4331	
7.66	0	1732.500016	16	4331	
7.66	10	1732.500011	11	4331	
7.66	20	1732.500013	13	4331	
7.66	30	1732.499988	-12	4331	
7.66	40	1732.500011	11	4331	
7.66	50	1732.500006	6	4331	

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Reference Freq.: LTE B5 Mid Channel 836.5 MHz 10M QPSK CH 20525					Frequency range (MHz)
Power Supply Vdc	Temp. ()	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)	824-849
Freq. ERROR vs. VOLTAGE					
8.8	25	836.499983	-17	2091	
7.66	25	836.499992	-8	2091	
6.894	25	836.499992	-8	2091	
5.8 (End Point)	25	836.500000	0	2091	
Freq. ERROR vs. Temp.					
7.66	-30	836.499975	-25	2091	
7.66	-20	836.499989	-11	2091	
7.66	-10	836.500009	9	2091	
7.66	0	836.500016	16	2091	
7.66	10	836.499990	-10	2091	
7.66	20	836.499988	-12	2091	
7.66	30	836.499998	-2	2091	
7.66	40	836.499995	-5	2091	
7.66	50	836.500019	19	2091	

Reference Freq.: LTE B7 Mid Channel 2535 MHz 10M QPSK CH 21100					Frequency range (MHz)
Power Supply Vdc	Temp. ()	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)	2500-2570
Freq. ERROR vs. VOLTAGE					
8.8	25	2534.999984	-16	6338	
7.66	25	2535.000015	15	6338	
6.894	25	2535.000013	13	6338	
5.8 (End Point)	25	2534.999979	-21	6338	
Freq. ERROR vs. Temp.					
7.66	-30	2535.000000	0	6338	
7.66	-20	2534.999981	-19	6338	
7.66	-10	2535.000011	11	6338	
7.66	0	2534.999978	-22	6338	
7.66	10	2534.999993	-7	6338	
7.66	20	2534.999993	-7	6338	
7.66	30	2535.000024	24	6338	
7.66	40	2534.999996	-4	6338	
7.66	50	2534.999977	-23	6338	

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Reference Freq.:		LTE B12 Mid Channel		707.5	MHz 10M QPSK CH 23095	Frequency range (MHz)	
Power Supply Vdc	Temp. ()	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)		699-716	
Freq. ERROR vs. VOLTAGE							699-716
8.8	25	707.500002	2	1769			
7.66	25	707.500020	20	1769			
6.894	25	707.499999	-1	1769			
5.8 (End Point)	25	707.499999	-1	1769			
Freq. ERROR vs. Temp.							
7.66	-30	707.500022	22	1769			
7.66	-20	707.500001	1	1769			
7.66	-10	707.499989	-11	1769			
7.66	0	707.499990	-10	1769			
7.66	10	707.500010	10	1769			
7.66	20	707.499995	-5	1769			
7.66	30	707.499980	-20	1769			
7.66	40	707.499999	-1	1769			
7.66	50	707.500014	14	1769			

Reference Freq.:		LTE B13 Mid Channel		782	MHz 10M QPSK CH 23230	Frequency range (MHz)	
Power Supply Vdc	Temp. ()	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)		777-787	
Freq. ERROR vs. VOLTAGE							777-787
8.8	25	782.000010	10	1955			
7.66	25	781.999994	-6	1955			
6.894	25	782.000013	13	1955			
5.8 (End Point)	25	781.999987	-13	1955			
Freq. ERROR vs. Temp.							
7.66	-30	781.999994	-6	1955			
7.66	-20	781.999993	-7	1955			
7.66	-10	781.999979	-21	1955			
7.66	0	781.999992	-8	1955			
7.66	10	782.000019	19	1955			
7.66	20	782.000007	7	1955			
7.66	30	782.000002	2	1955			
7.66	40	781.999986	-14	1955			
7.66	50	781.999992	-8	1955			

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Reference Freq.:		LTE B25 Mid Channel		1882.5	MHz 20M QPSK CH 26365	Frequency range (MHz)
Power Supply Vdc	Temp. ()	Freq.(MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)		
Freq. ERROR vs. VOLTAGE						
8.8	25	1882.500008	8	4700		
7.66	25	1882.5	0	4700		
6.894	25	1882.500004	4	4700		
5.8 (End Point)	25	1882.500012	12	4700		
Freq. ERROR vs. Temp.						
7.66	-30	1882.499984	-16	4700		
7.66	-20	1882.500022	22	4700		
7.66	-10	1882.500003	3.0000001	4700		
7.66	0	1882.499984	-16	4700		
7.66	10	1882.499978	-22	4700		
7.66	20	1882.500023	23	4700		
7.66	30	1882.499982	-18	4700		
7.66	40	1882.499999	-10	4700		
7.66	50	1882.499978	-22	4700		

1850-1915

Reference Freq.:		LTE B26 Mid Channel		831.5	MHz 15M QPSK CH 26865	Frequency range (MHz)
Power Supply Vdc	Temp. ()	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)		
Freq. ERROR vs. VOLTAGE						
8.8	25	831.499995	-5	2091		
7.66	25	831.500022	22	2091		
6.894	25	831.499990	-10	2091		
5.8 (End Point)	25	831.499975	-25	2091		
Freq. ERROR vs. Temp.						
7.66	-30	831.499993	-7	2091		
7.66	-20	831.500005	5	2091		
7.66	-10	831.499986	-14	2091		
7.66	0	831.499978	-22	2091		
7.66	10	831.500013	13	2091		
7.66	20	831.500022	22	2091		
7.66	30	831.500018	18	2091		
7.66	40	831.500020	20	2091		
7.66	50	831.500016	16	2091		

824-849

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Reference Freq.: Part 90 LTE B26 Mid Channel 819 MHz 10M QPSK CH 26740					Frequency range (MHz)
Power Supply Vdc	Temp. ()	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)	
Freq. ERROR vs. VOLTAGE (LTE B26 for Part 90S)					
8.8	25	819.000019	19	2048	
7.66	25	819.000004	4	2048	
6.894	25	818.999982	-18	2048	
5.8 (End Point)	25	818.999986	-14	2048	
Freq. ERROR vs. Temp.					
7.66	-30	818.999979	-21	2048	
7.66	-20	819.000021	21	2048	
7.66	-10	818.999987	-13	2048	
7.66	0	818.999986	-14	2048	
7.66	10	819.000005	5	2048	
7.66	20	818.999979	-21	2048	
7.66	30	819.000013	13	2048	
7.66	40	818.999981	-19	2048	
7.66	50	819.000010	10	2048	

814-824

Reference Freq.: LTE B30 Mid Channel 2310 MHz 10M QPSK CH 27710					Frequency range (MHz)
Power Supply Vdc	Temp. ()	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)	
Freq. ERROR vs. VOLTAGE					
8.8	25	2310.000021	21	6488	
7.66	25	2309.999976	-24	6488	
6.894	25	2309.999978	-22	6488	
5.8 (End Point)	25	2310.000005	4.9999999	6488	
Freq. ERROR vs. Temp.					
7.66	-30	2310.000024	24	6488	
7.66	-20	2309.999995	-5	6488	
7.66	-10	2309.999987	-13	6488	
7.66	0	2310.000023	23	6488	
7.66	10	2309.999980	-20	6488	
7.66	20	2310.000007	7.0000001	6488	
7.66	30	2309.999987	-13	6488	
7.66	40	2309.999997	-3	6488	
7.66	50	2309.999978	-22	6488	

2301-2315

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Reference Freq.:					LTE B38 Mid Channel	2595	MHz	10M QPSK CH 38000	Frequency range (MHz)
Power Supply Vdc	Temp. ()	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)					
Freq. ERROR vs. VOLTAGE									
8.8	25	2594.999994	-6	6488					
7.66	25	2595.000015	15	6488					
6.894	25	2595.000023	23	6488					
5.8 (End Point)	25	2594.999983	-17	6488					
Freq. ERROR vs. Temp.									
7.66	-30	2594.999981	-19	6488					
7.66	-20	2594.999988	-12	6488					
7.66	-10	2595.000017	17	6488					
7.66	0	2594.999986	-14	6488					
7.66	10	2595.000018	18	6488					
7.66	20	2595.000010	10	6488					
7.66	30	2594.999979	-21	6488					
7.66	40	2594.999978	-22	6488					
7.66	50	2594.999988	-12	6488					

2570-2620

Reference Freq.:					LTE B41 Mid Channel	2593	MHz	10M QPSK CH 40620	Frequency range (MHz)
Power Supply Vdc	Temp. ()	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)					
Freq. ERROR vs. VOLTAGE									
8.8	25	2592.999978	-22	6488					
7.66	25	2592.999977	-23	6488					
6.894	25	2593.000002	2.0000002	6488					
5.8 (End Point)	25	2593.000013	13	6488					
Freq. ERROR vs. Temp.									
7.66	-30	2593.000024	24	6488					
7.66	-20	2593.000016	16	6488					
7.66	-10	2592.999992	-8	6488					
7.66	0	2592.999992	-8	6488					
7.66	10	2592.999978	-22	6488					
7.66	20	2592.999993	-7	6488					
7.66	30	2593.000004	4	6488					
7.66	40	2592.999976	-24	6488					
7.66	50	2592.999991	-9	6488					

2496-2690

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Reference Freq.:		LTE B66 Mid Channel			1745	MHz 10M QPSK CH 132322	Frequency range (MHz)
Power Supply Vdc	Temp. ()	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)			1710-1780
Freq. ERROR vs. VOLTAGE							
8.8	25	1745.000009	9.0000001	6488			
7.66	25	1744.999984	-16	6488			
6.894	25	1744.999985	-15	6488			
5.8 (End Point)	25	1744.999995	-5	6488			
Freq. ERROR vs. Temp.							
7.66	-30	1745.000012	12	6488			
7.66	-20	1744.999999	-1	6488			
7.66	-10	1745.000016	16	6488			
7.66	0	1744.999975	-25	6488			
7.66	10	1744.999991	-9	6488			
7.66	20	1744.999982	-18	6488			
7.66	30	1744.999992	-8	6488			
7.66	40	1744.999989	-11	6488			
7.66	50	1745.000004	4	6488			

Note: The battery is rated 7.66Vdc.

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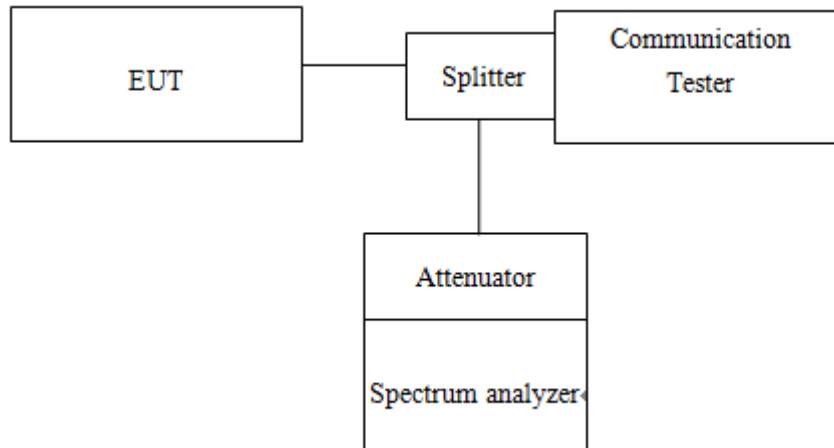
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12. PEAK TO AVERAGE RATIO

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	Agilent	N9010A	MY51440113	2018/06/20	2019/06/19
Radio Communication Analyzer	Anritsu	MT8820C	6201107337	2018/06/15	2019/06/14
DC Power Supply	Agilent	E3640A	MY53130054	2017/09/04	2018/09/03
Attenuator	Marvelous	MVE2213-10	RF30	2017/12/26	2018/12/25
Splitter	Woken	DOM35LW1 A2	RF36	2017/12/26	2018/12/25

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12.5. Measurement Result

Tabular Results:

Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA	HSDPA	HSUPA
		II	II	II
1852.4	9262	3.44	4.25	4.07
1880	9400	3.44	4.42	4.46
1907.6	9538	3.06	4.13	4.32

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	6.05	13	1851.5	18615	5.68	13
1880.0	18900	6.11	13	1880.0	18900	6.15	13
1909.3	19193	5.86	13	1908.5	19185	5.95	13

LTE BAND 2							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
1852.5	18625	5.63	13	1855.0	18650	5.73	13
1880.0	18900	6.09	13	1880.0	18900	6.07	13
1907.5	19175	5.79	13	1905.0	19150	6.05	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	6.29	13	1860.0	18700	6.77	13
1880.0	18900	6.09	13	1880.0	18900	6.70	13
1902.5	19125	6.13	13	1900.0	19100	6.62	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	6.19	13	1711.5	19965	6.18	13
1732.5	20175	6.09	13	1732.5	20175	6.40	13
1754.3	20393	6.22	13	1753.5	20385	6.33	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	5.78	13	1715.0	20000	6.09	13
1732.5	20175	6.33	13	1732.5	20175	6.09	13
1752.5	20375	6.47	13	1750.0	20350	5.98	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	6.20	13	1720.0	20050	6.84	13
1732.5	20175	6.19	13	1732.5	20175	6.67	13
1747.5	20325	6.13	13	1745.0	20300	6.47	13

LTE BAND 5							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
824.7	20407	6.13	13	825.5	20415	6.13	13
836.5	20525	6.10	13	836.5	20525	6.04	13
848.3	20643	6.01	13	847.5	20635	5.98	13

LTE BAND 5							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
826.5	20425	6.09	13	829.0	20450	6.04	13
836.5	20525	6.03	13	836.5	20525	6.11	13
846.5	20625	6.03	13	844.0	20600	6.02	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	6.12	13	2505.0	20800	6.18	13
2535.0	21100	6.13	13	2535.0	21100	5.95	13
2567.5	21375	5.99	13	2565.0	21350	5.97	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	6.40	13	2510	20850	6.88	13
2535.0	21100	6.26	13	2535	21100	6.74	13
2562.5	21375	6.14	13	2560	21350	6.66	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	6.12	13	700.5	23025	6.16	13
707.5	23095	6.03	13	707.5	23095	6.03	13
715.3	23173	5.67	13	714.5	23165	5.82	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	5.86	13	704.0	23060	6.06	13
707.5	23095	5.97	13	707.5	23095	5.67	13
713.5	23155	6.07	13	711.0	23130	5.73	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	5.91	13	782.0	23230	5.78	13
782.0	23230	5.83	13				
784.5	23255	5.71	13				

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LTE BAND 25							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
1850.7	26047	6.01	13	1851.5	26055	6.13	13
1882.5	26365	6.08	13	1882.5	26365	6.03	13
1914.3	26683	5.99	13	1913.5	26675	6.06	13

LTE BAND 25							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
1852.5	26065	5.99	13	1855.0	26090	5.66	13
1882.5	26365	6.01	13	1882.5	26365	6.32	13
1912.5	26665	6.05	13	1910.0	26640	6.28	13

LTE BAND 25							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
1857.5	26115	6.27	13	1860.0	26140	6.78	13
1882.5	26365	6.35	13	1882.5	26365	6.82	13
1907.5	26615	6.31	13	1905.0	26590	6.79	13

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LTE BAND 26							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
814.7	26697	6.14	13	815.5	26705	6.05	13
831.5	26865	6.08	13	831.5	26865	6.08	13
848.3	27033	5.99	13	847.5	27025	5.98	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	5.91	13	820.0	26750	5.99	13
831.5	26865	5.98	13	831.5	26865	6.08	13
846.5	27015	6.01	13	844.0	26990	6.03	13

LTE BAND 26			
Channel bandwidth: 15MHz			
Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit
822.5	26775	6.13	13
831.5	26865	6.17	13
841.5	26965	6.23	13

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	5.91	13	815.5	26705	5.94	13
819.0	26740	5.88	13	819	26740	5.90	13
823.3	26783	6.01	13	822.5	26775	5.96	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	5.90	13	819.0	26740	5.90	13
819.0	26740	5.88	13				
821.5	26765	5.88	13				

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LTE BAND 30							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	Peak-to-		Freq. (MHz)	CH	Peak-to-	
		6.10	Limit			6.10	Limit
2307.5	27685	6.01	13	2310.0	27710	6.08	13
2310.0	27710	6.07	13				
2312.5	27735	6.06	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	8.52	13	2575	37800	11.02	13
2595.0	38000	11.39	13	2595	38000	10.37	13
2617.5	38225	11.53	13	2615	38200	8.18	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	9.36	13	2580.0	37850	8.29	13
2595.0	38000	9.53	13	2595.0	38000	10.08	13
2612.5	38175	11.34	13	2610.0	38150	9.20	13

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	8.42	13	2501.0	39700	10.28	13
2593.0	40620	9.74	13	2593.0	40620	8.82	13
2687.5	41565	8.05	13	2685.0	41540	9.32	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	10.51	13	2506.0	39750	11.27	13
2593.0	40620	9.25	13	2593.0	40620	9.65	13
2682.5	41515	10.06	13	2680.0	41490	11.41	13

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LTE BAND 66							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	Peak-to-		Freq. (MHz)	CH	Peak-to-	
		16QAM	Limit			16QAM	Limit
1710.7	131979	6.15	13	1711.5	131987	6.06	13
1745.0	132322	6.16	13	1745.0	132322	6.09	13
1779.3	132665	5.45	13	1778.5	132657	6.02	13

LTE BAND 66							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	Peak-to-		Freq. (MHz)	CH	Peak-to-	
		16QAM	Limit			16QAM	Limit
1712.5	131997	6.08	13	1715.0	132022	6.05	13
1745.0	132322	6.01	13	1745.0	132322	6.12	13
1777.5	132647	6.03	13	1775.0	132622	6.09	13

LTE BAND 66							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	Peak-to-		Freq. (MHz)	CH	Peak-to-	
		16QAM	Limit			16QAM	Limit
1717.5	132047	6.13	13	1720.0	132072	6.82	13
1745.0	132322	6.16	13	1745.0	132322	6.56	13
1772.5	132597	6.03	13	1770.0	132572	6.42	13

Please refer to next page for test plots.

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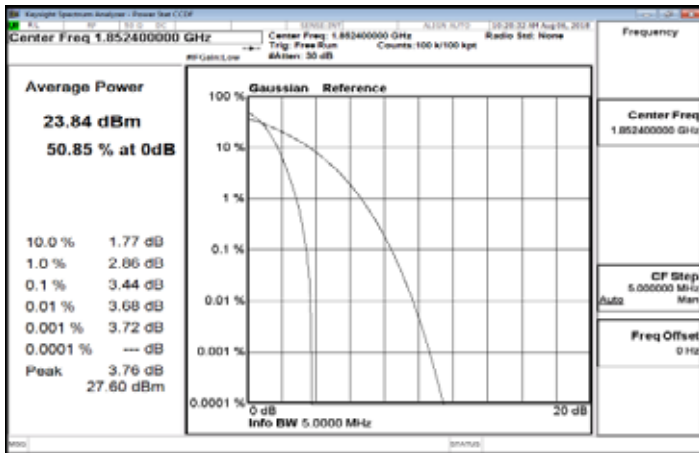
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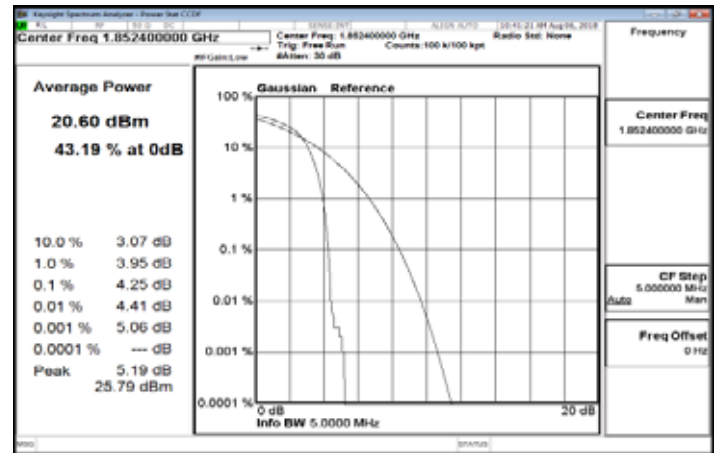
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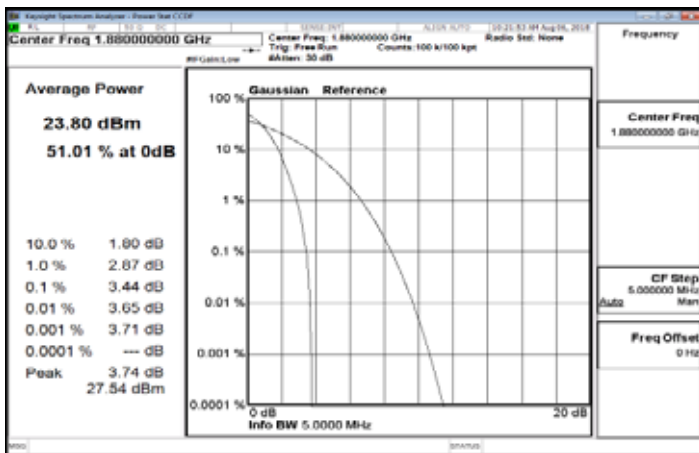
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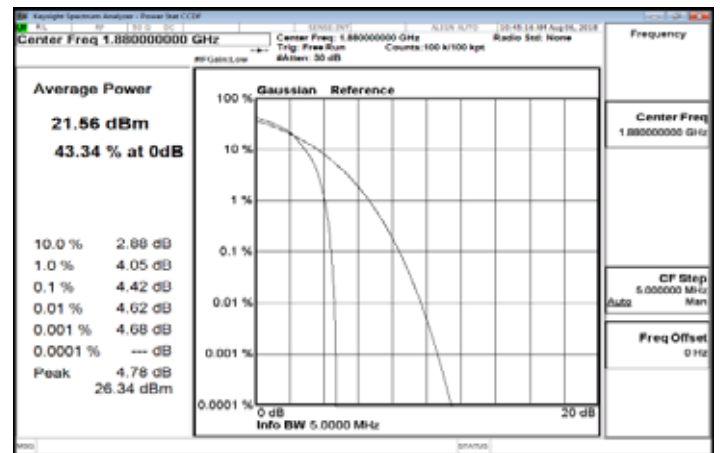
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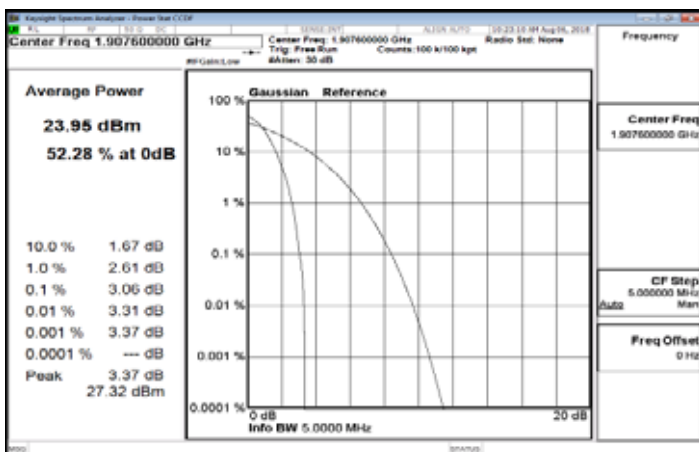
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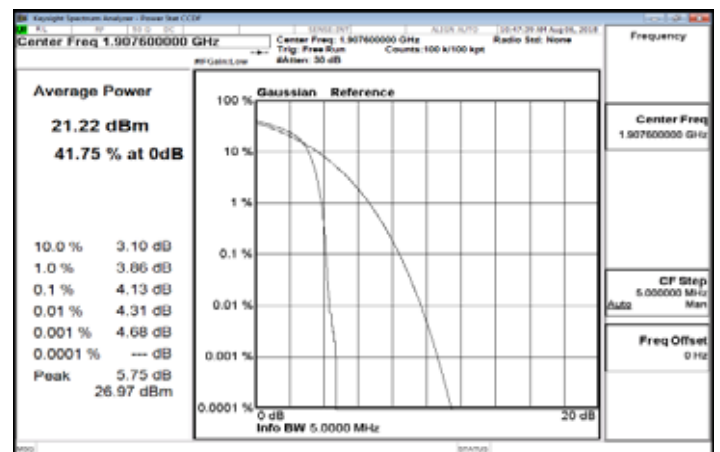
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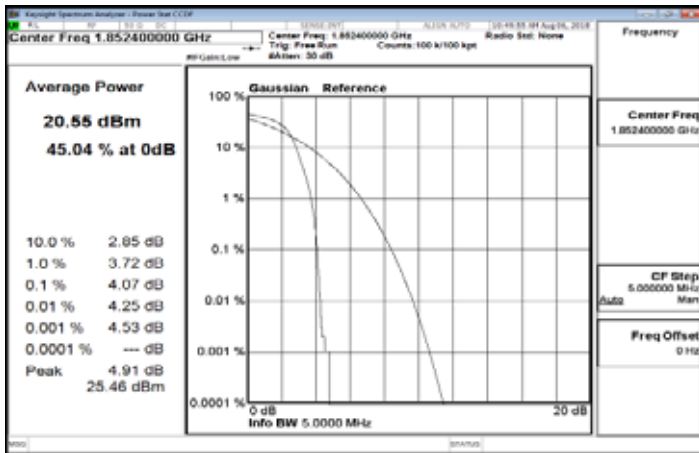


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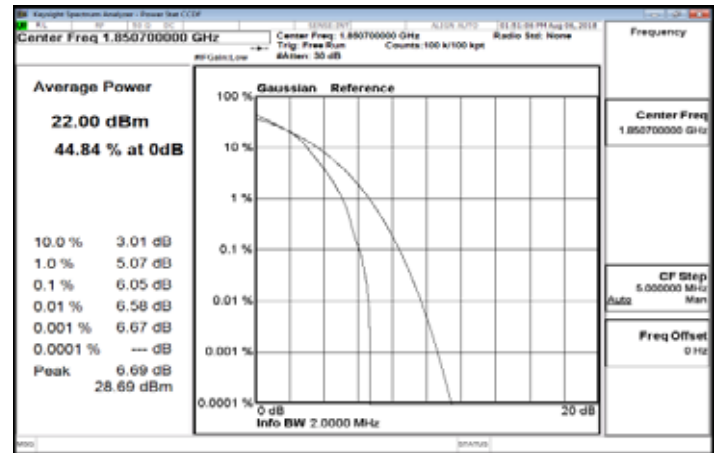
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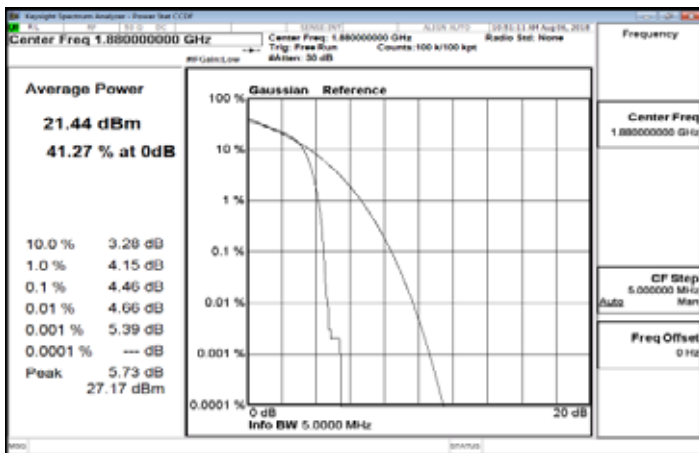
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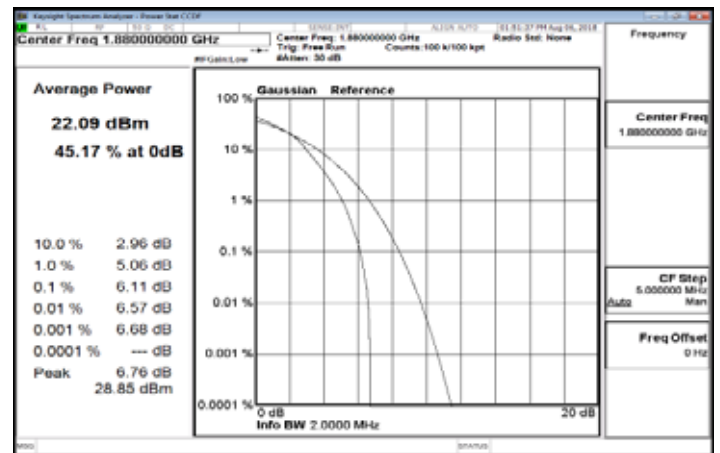
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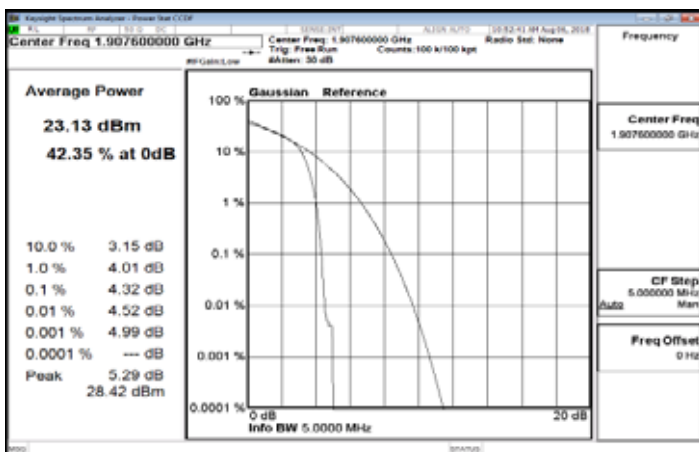
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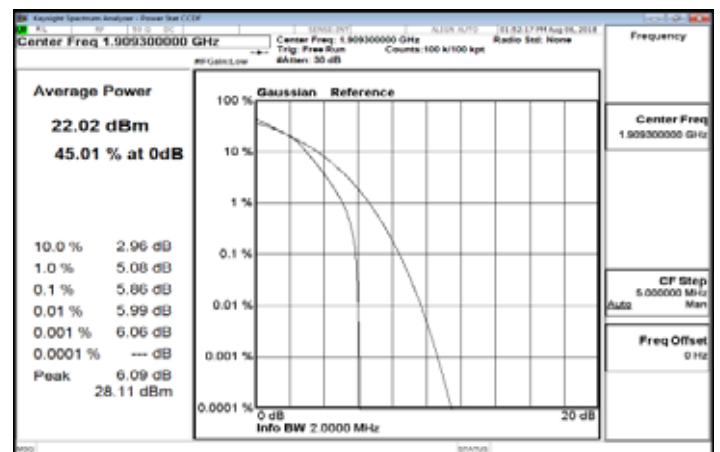
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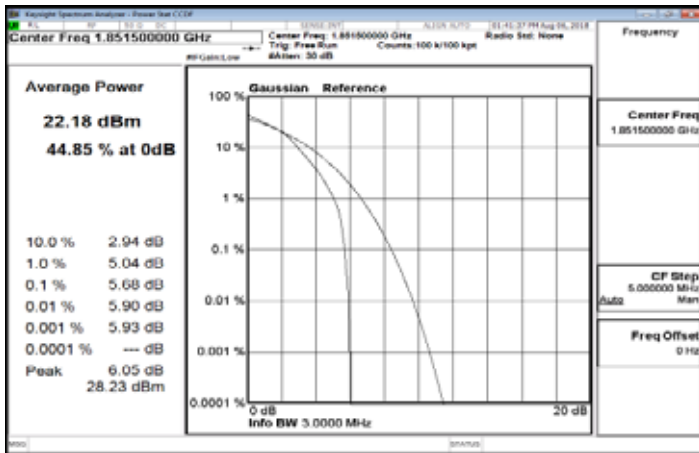
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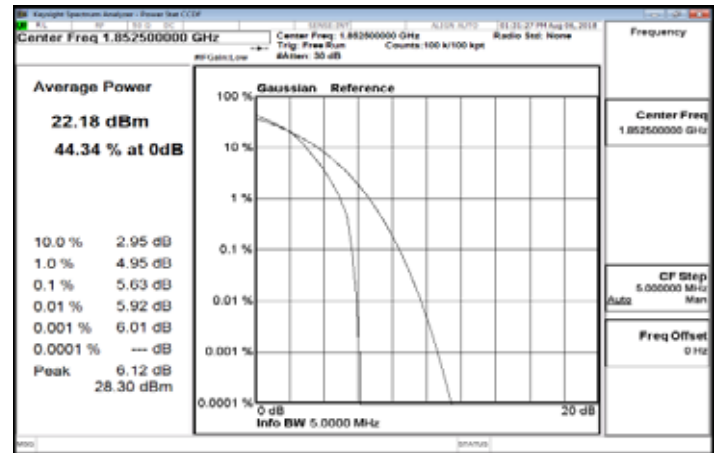
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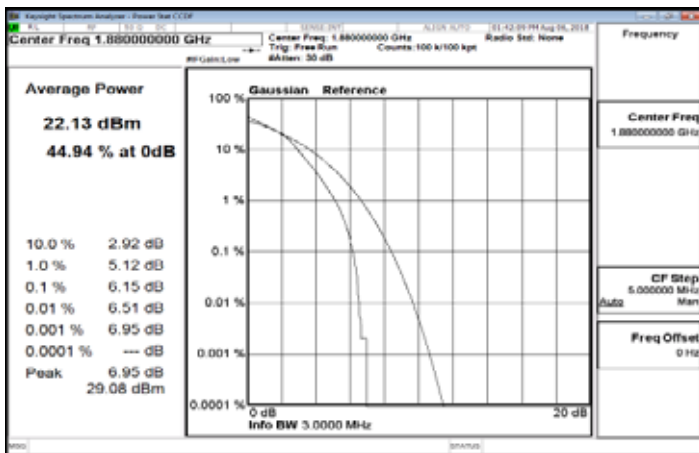
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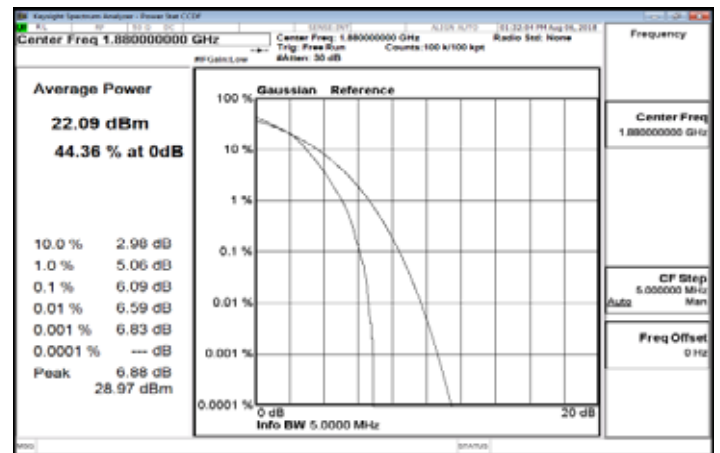
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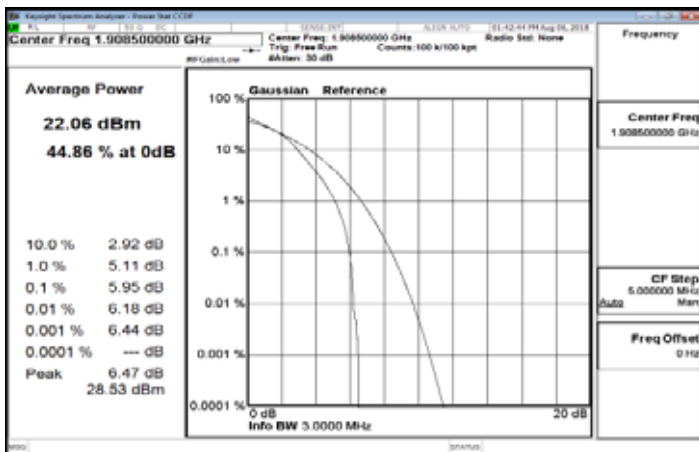
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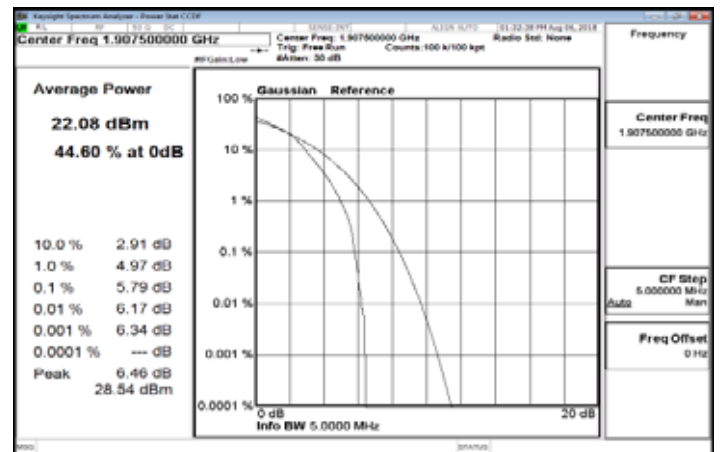
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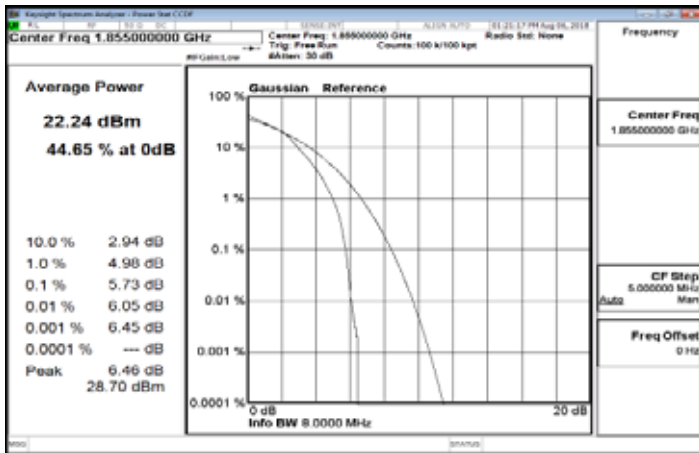


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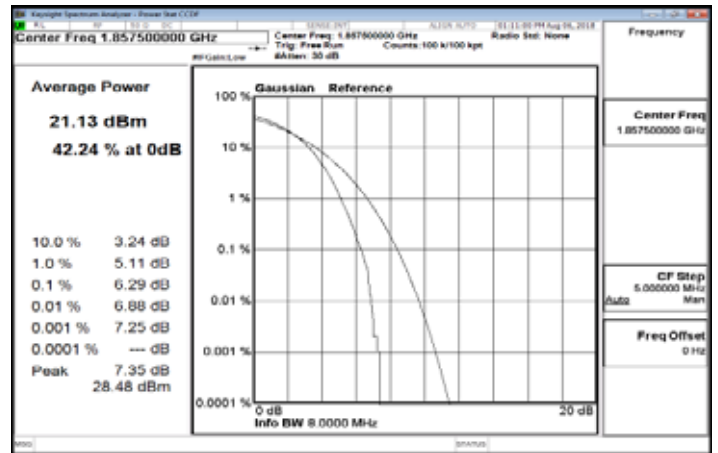
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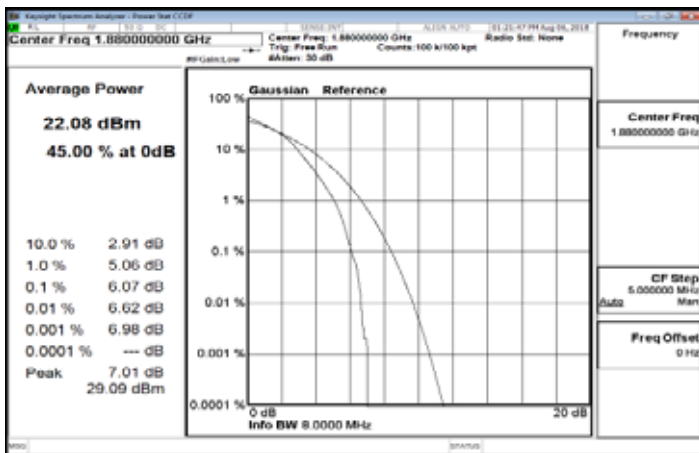
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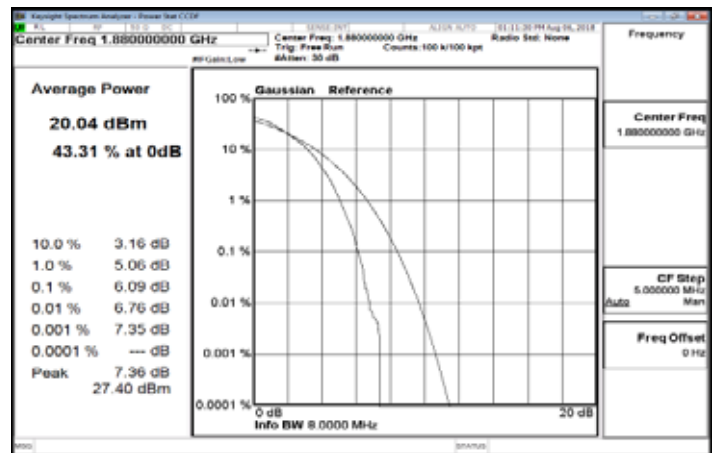
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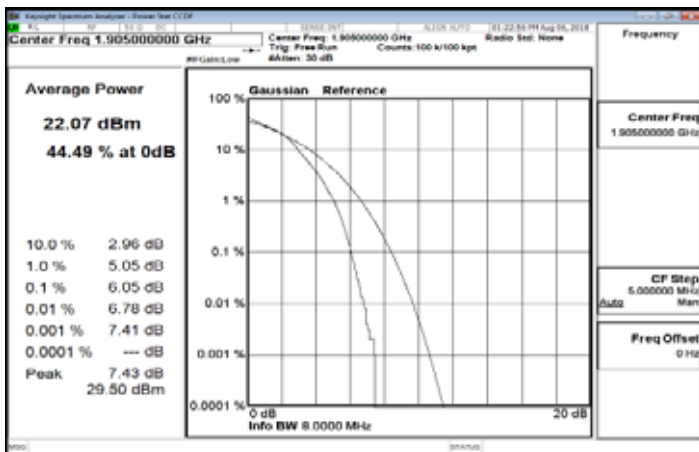
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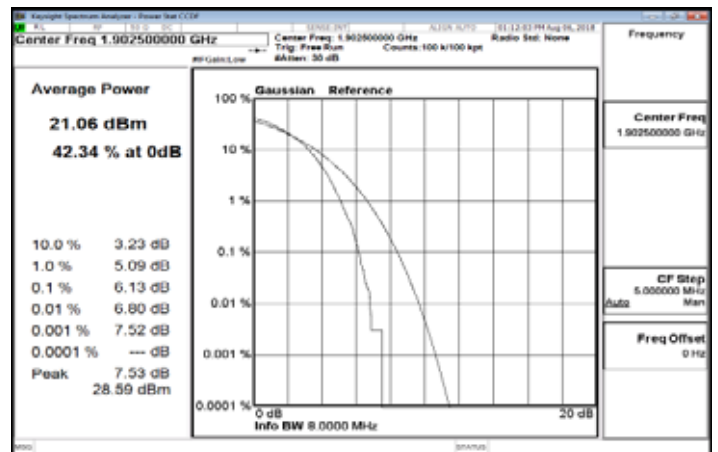
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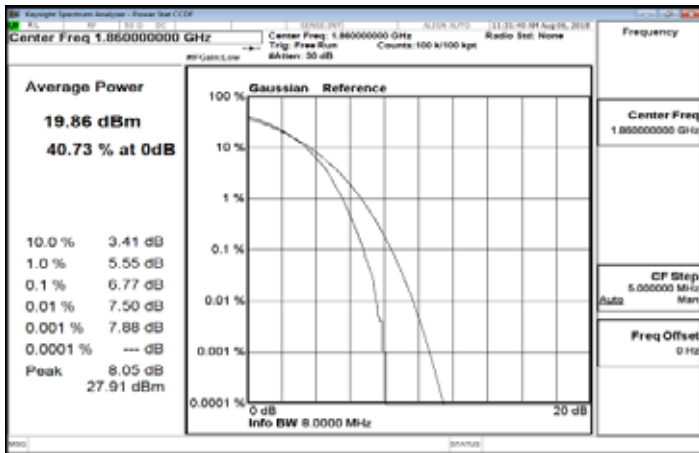


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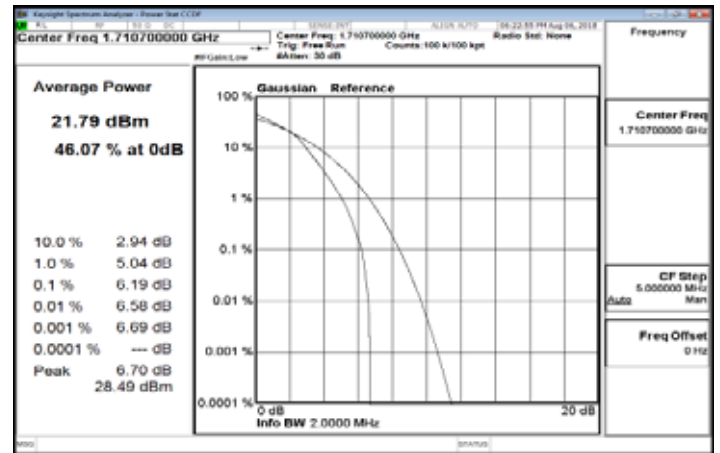
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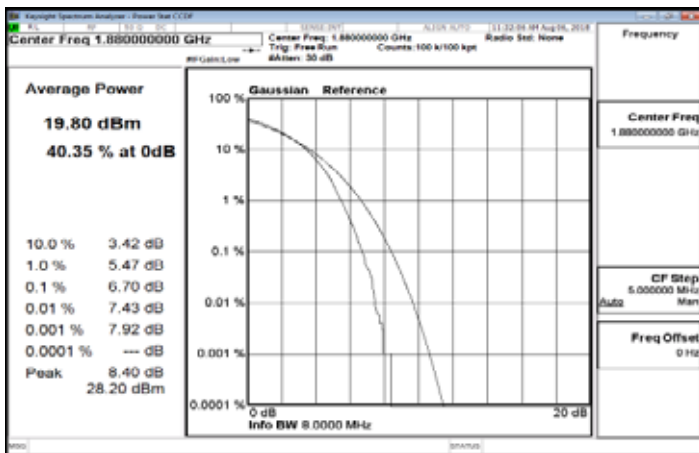
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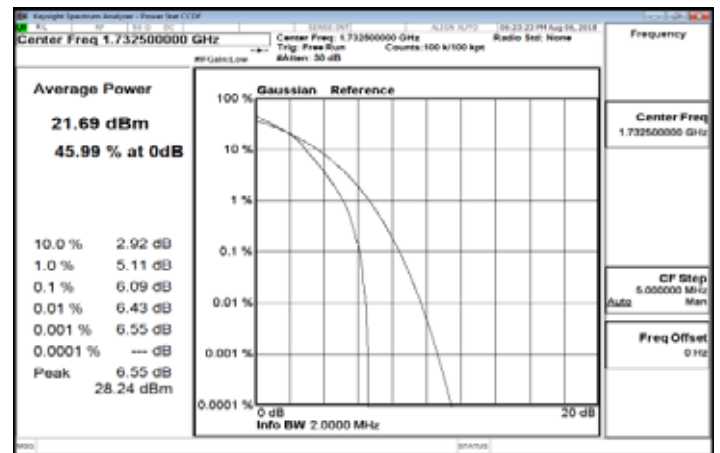
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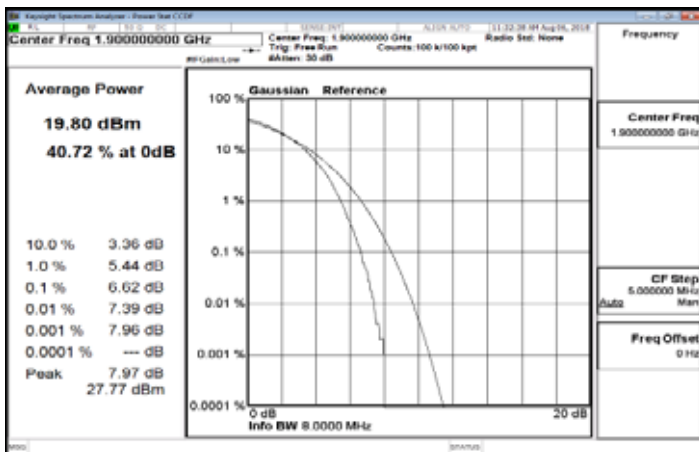
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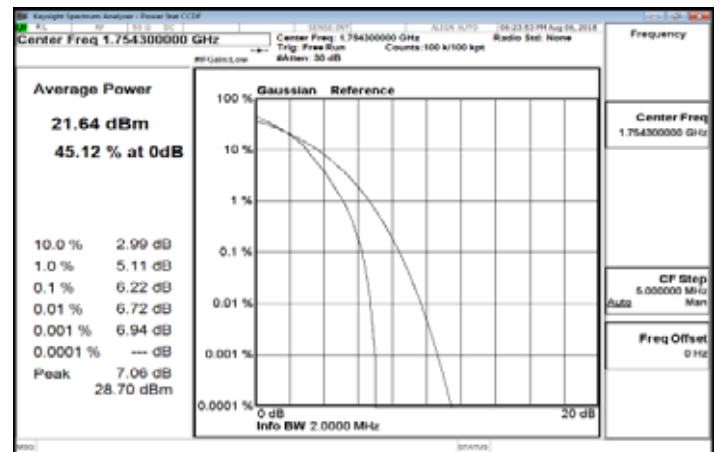
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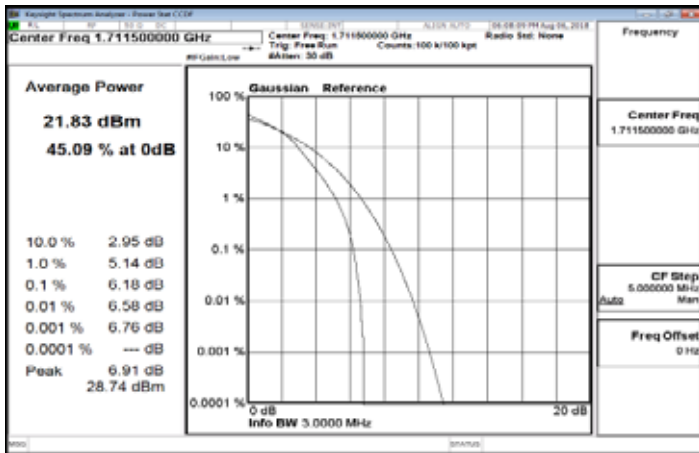


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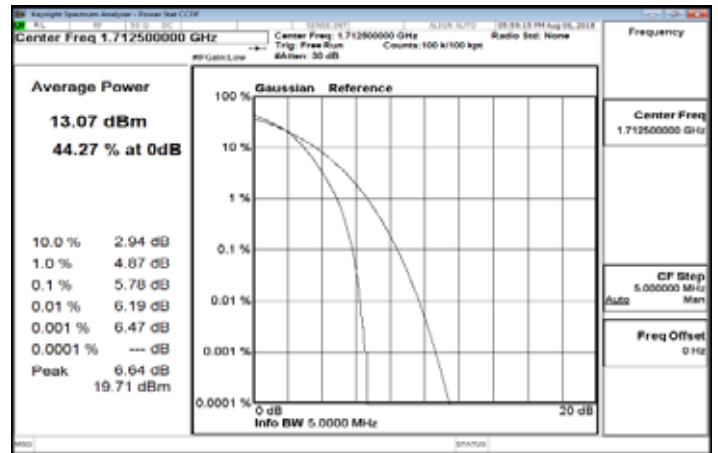
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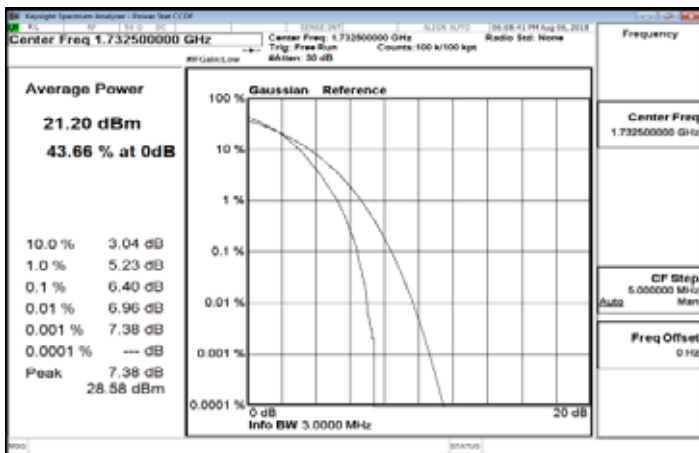
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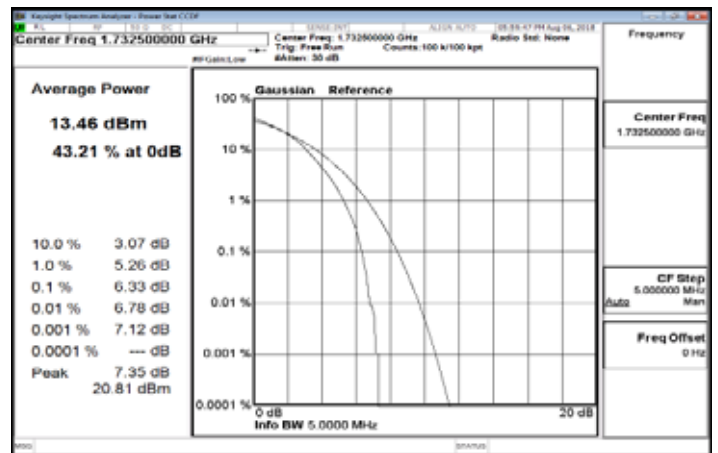
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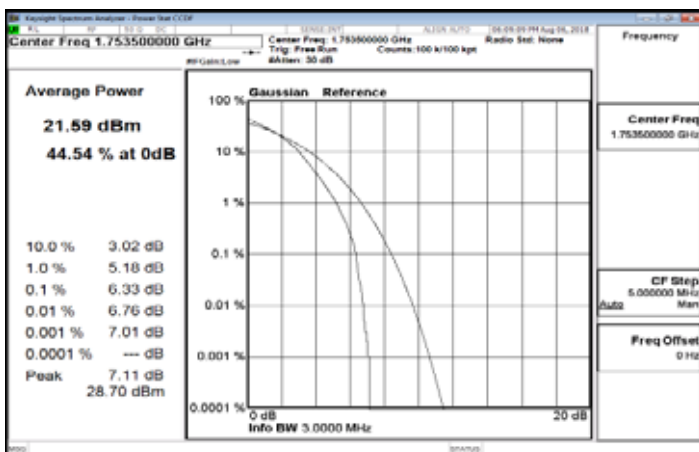
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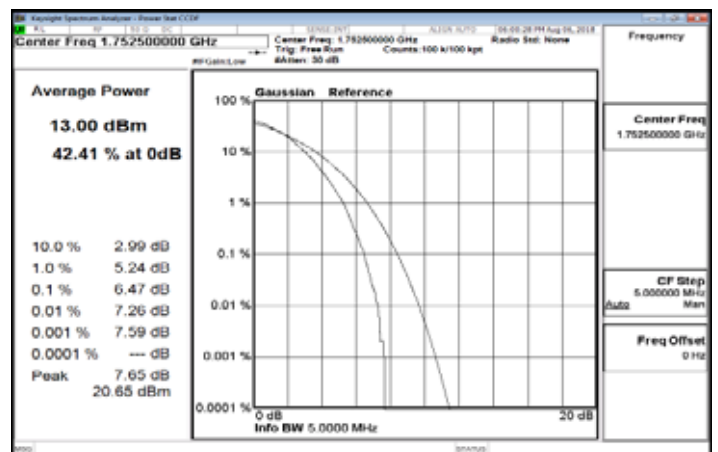
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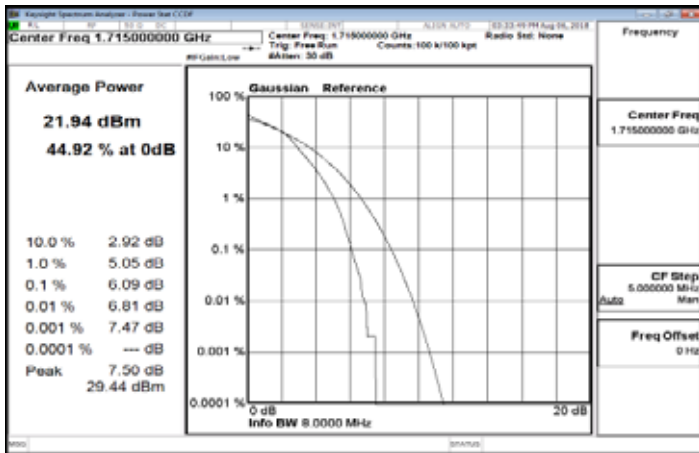


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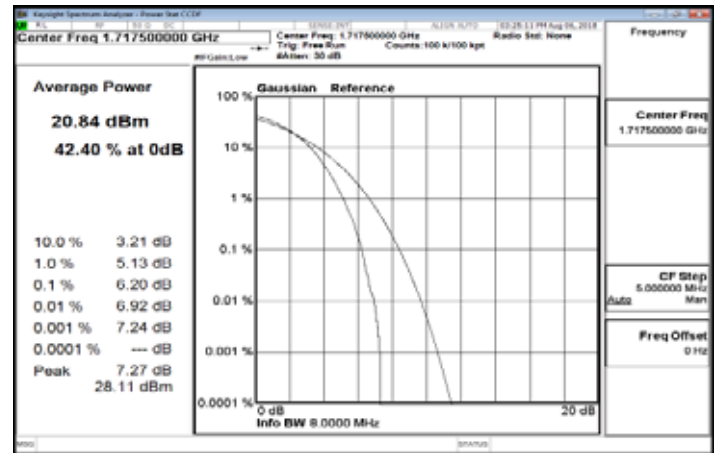
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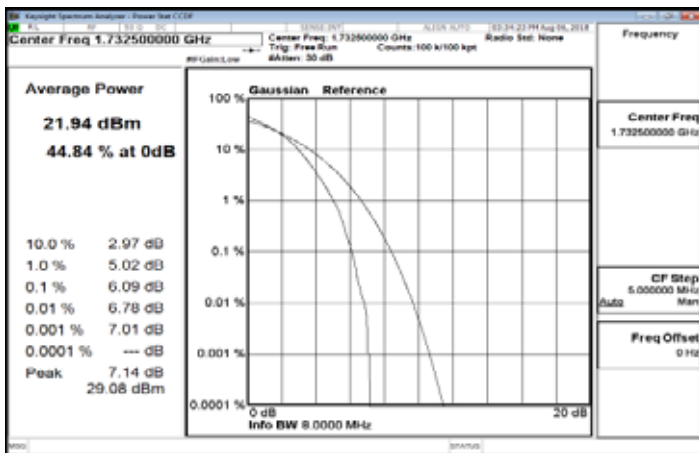
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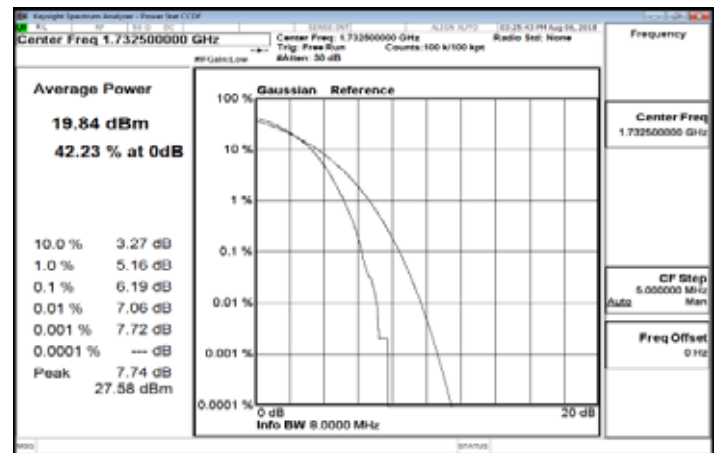
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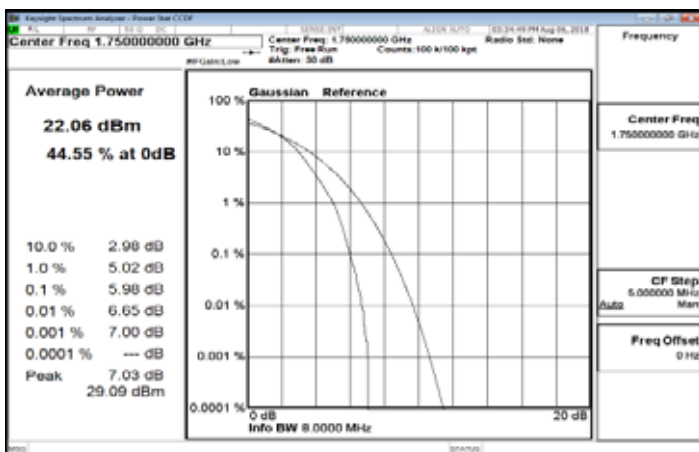
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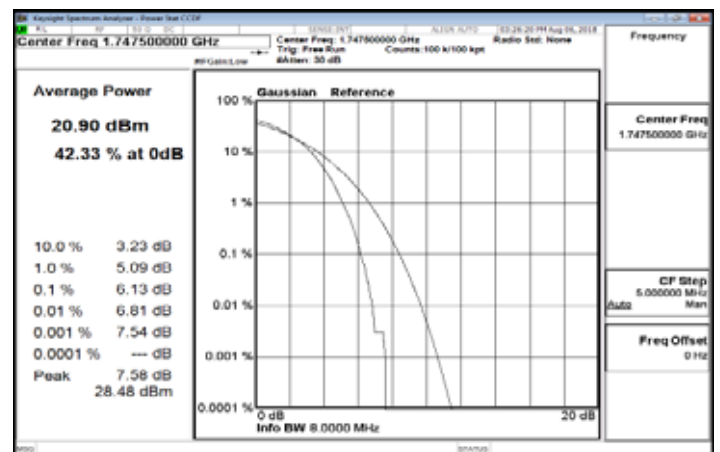
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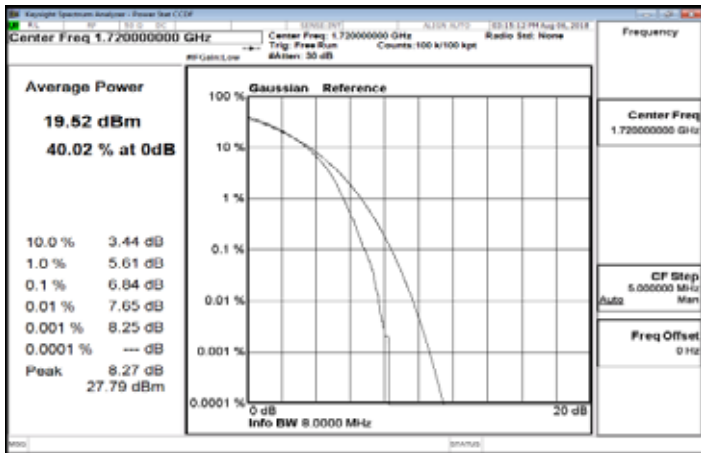


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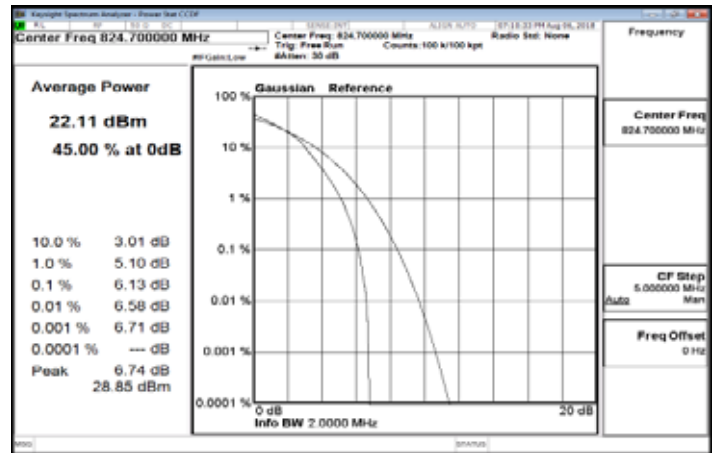
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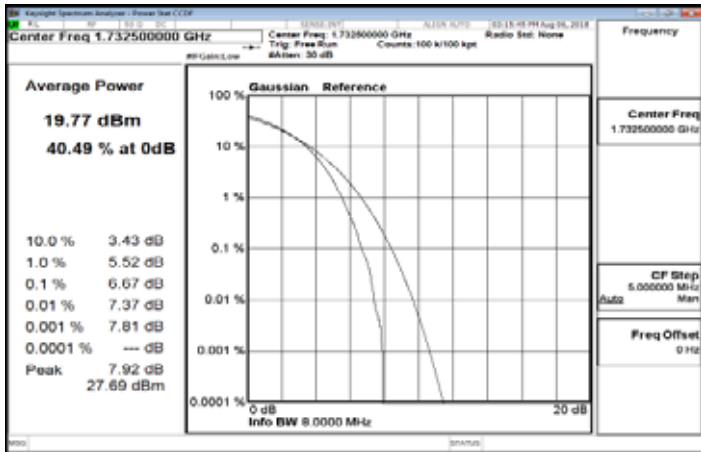
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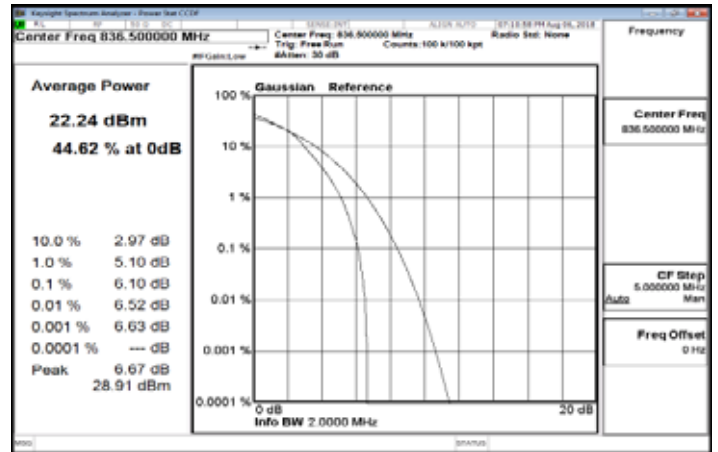
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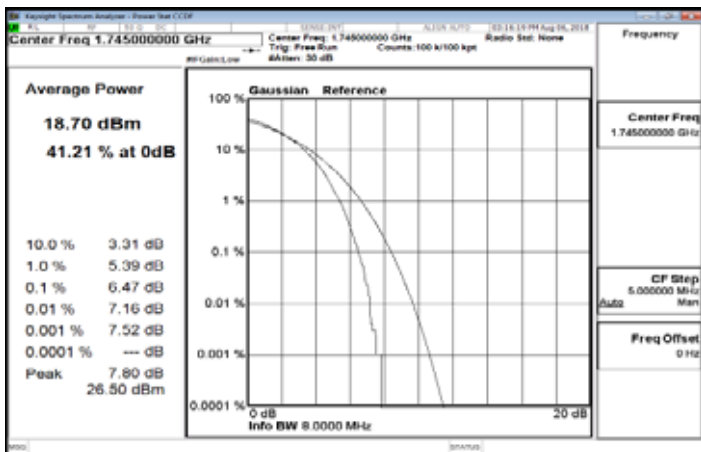
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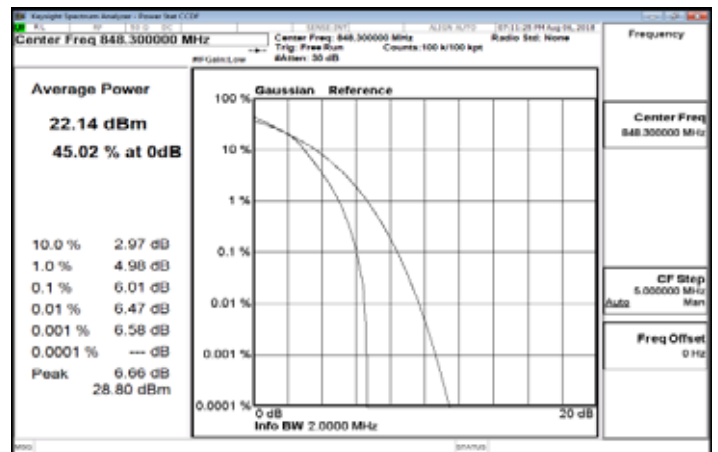
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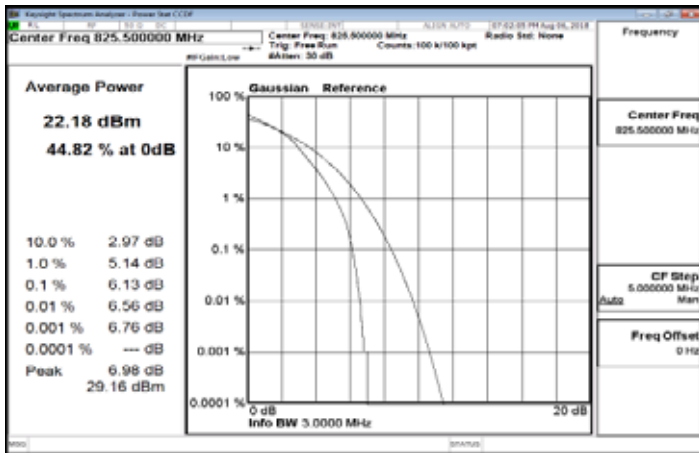
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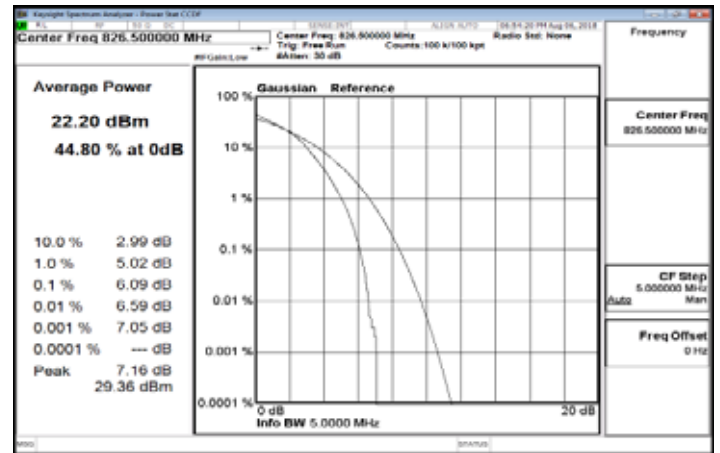
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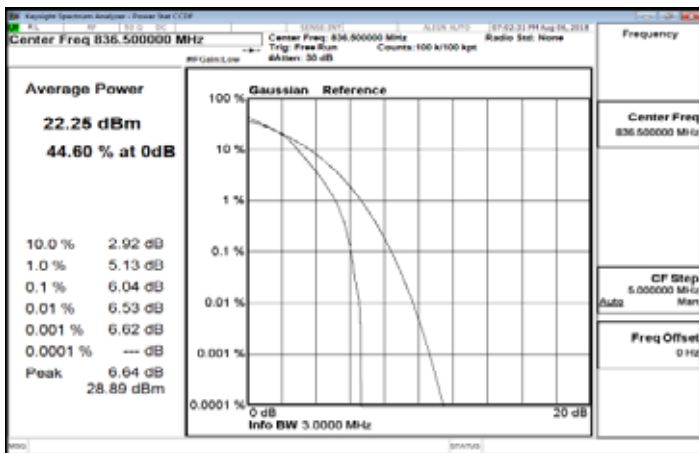
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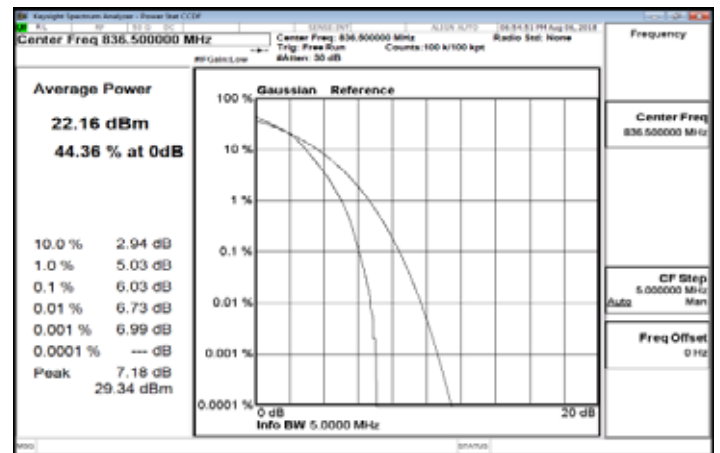
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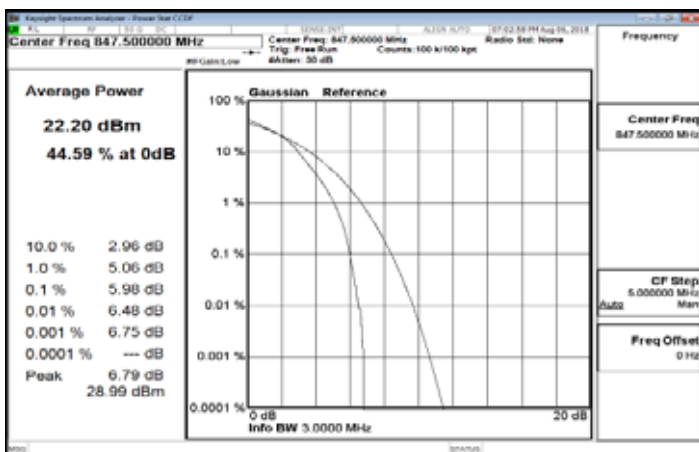
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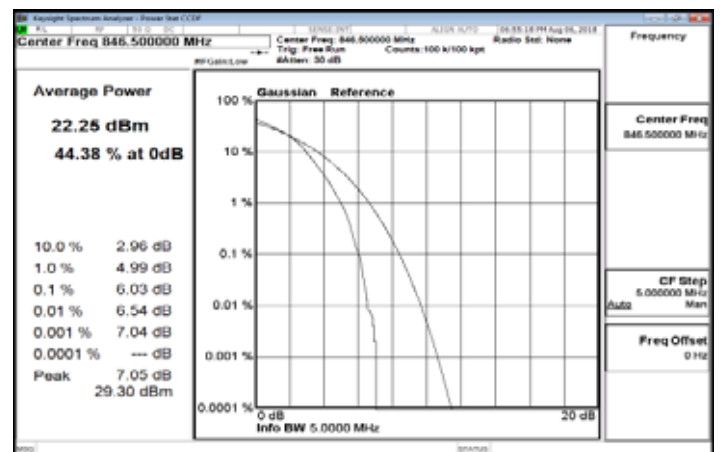
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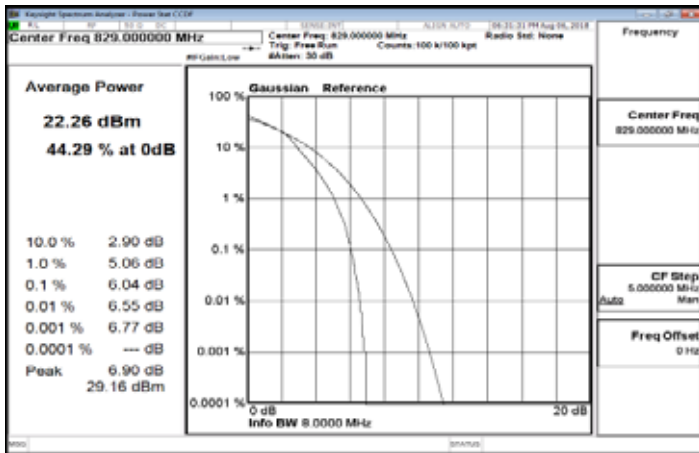


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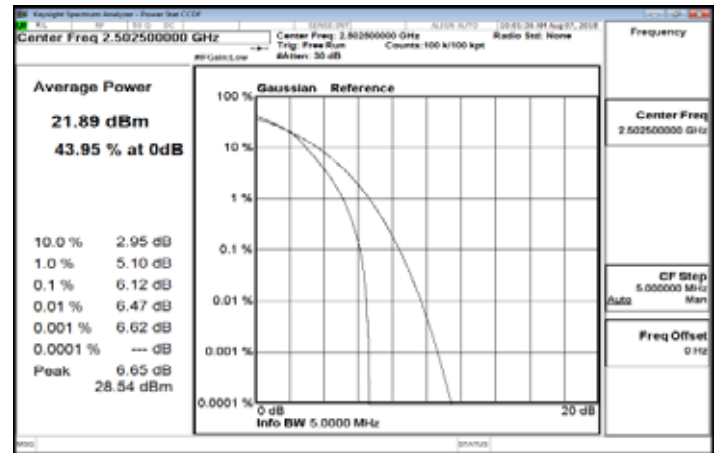
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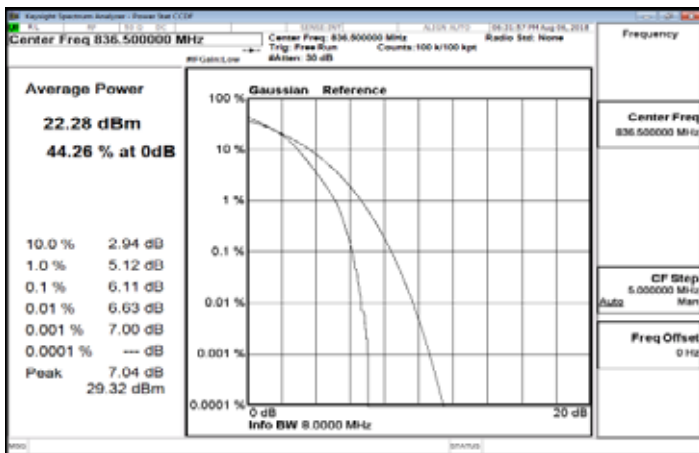
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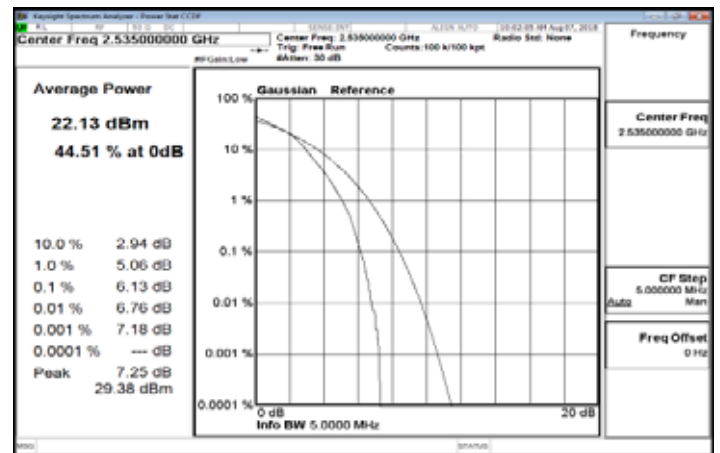
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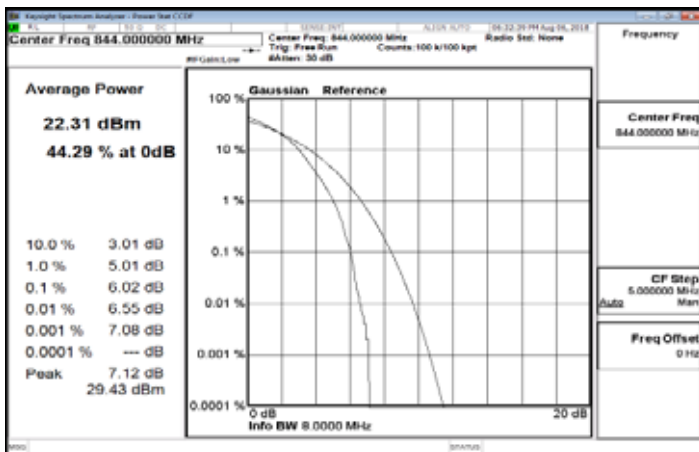
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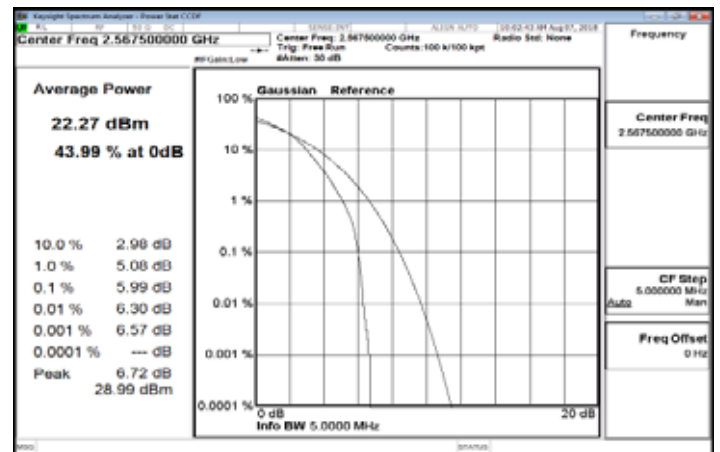
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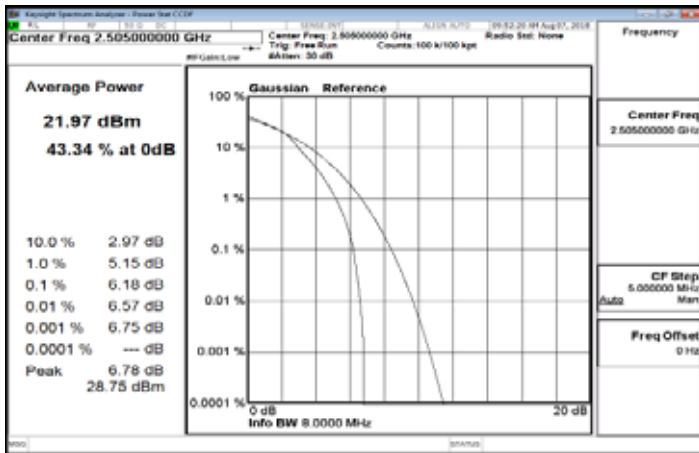
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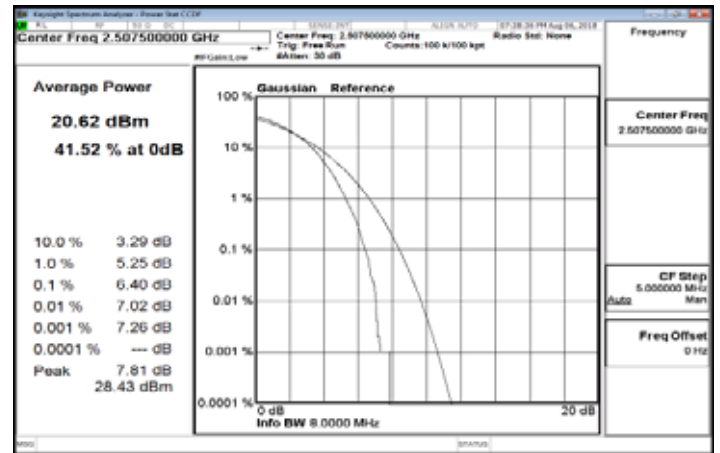
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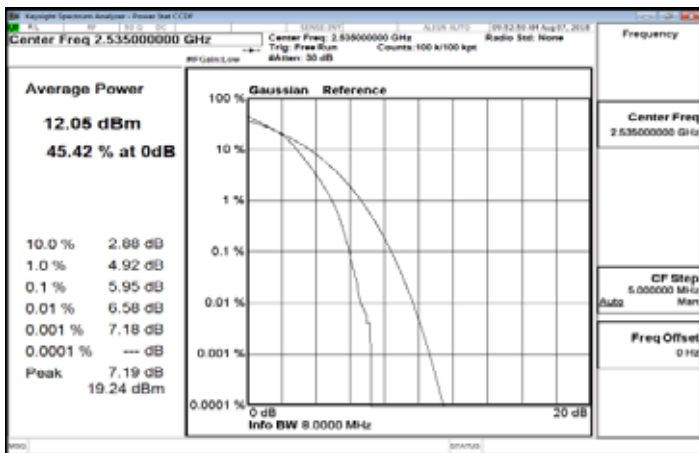
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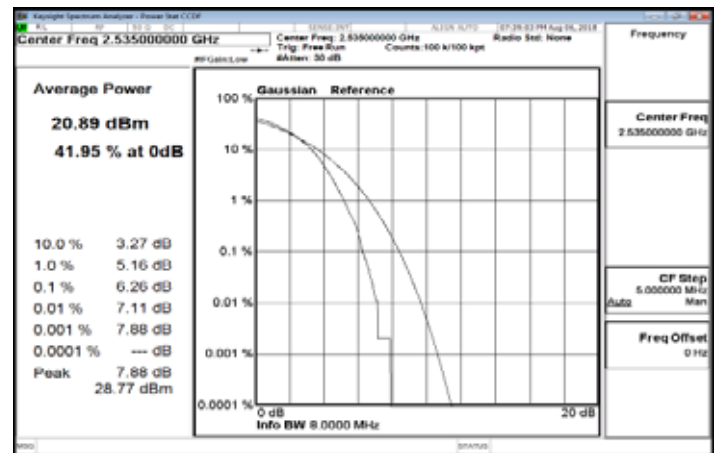
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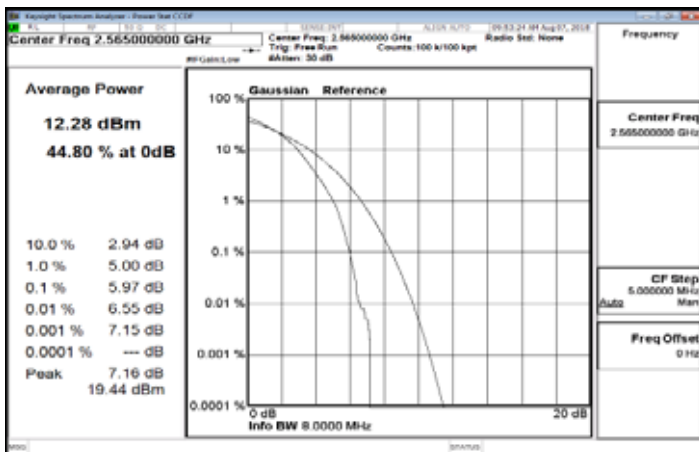
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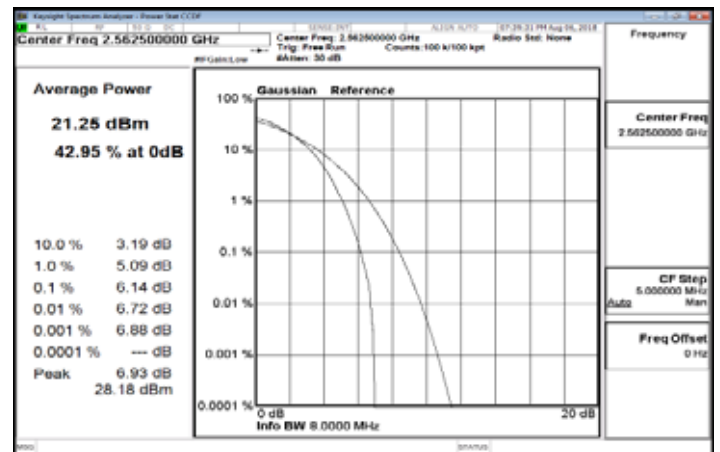
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LTE_Band7 15MHz_16-QAM 75 0_HighCH21375-2562.5



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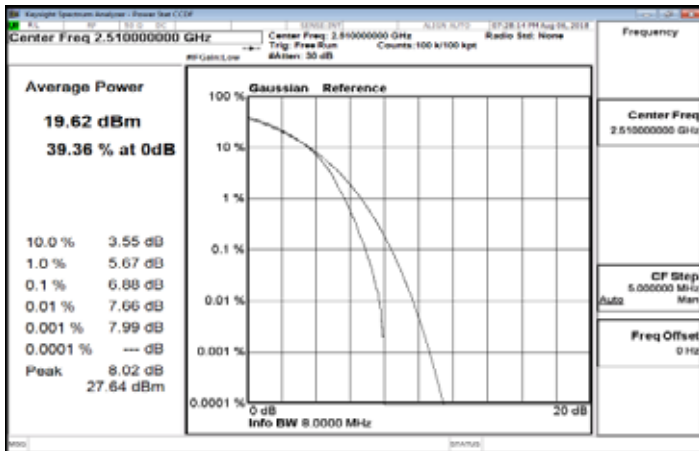
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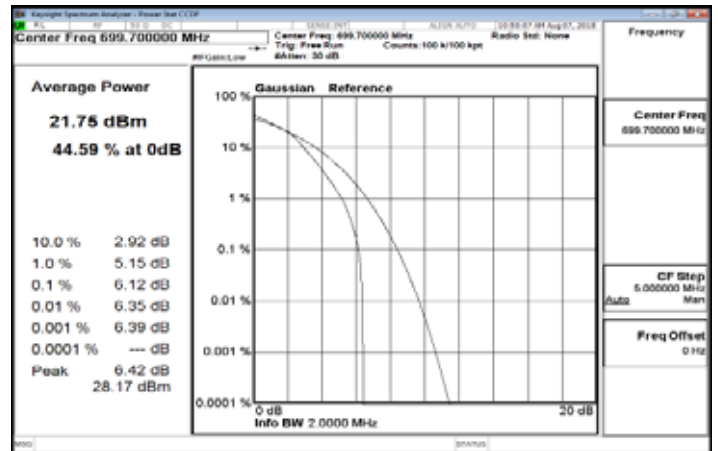
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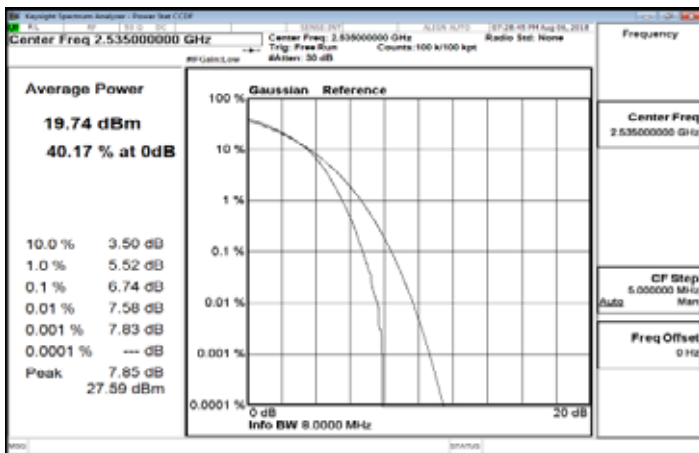
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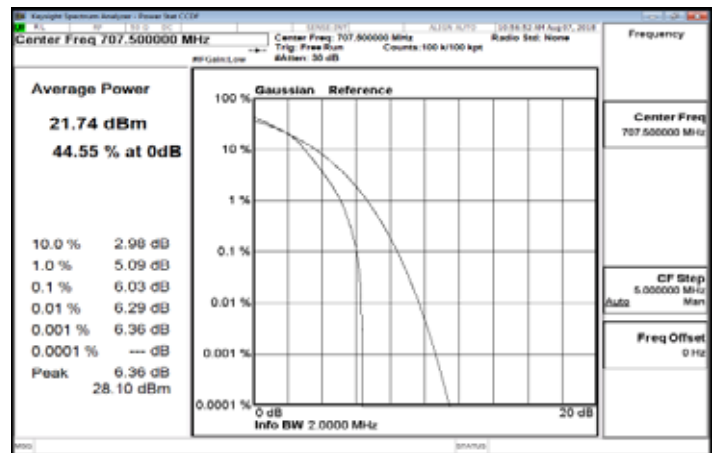
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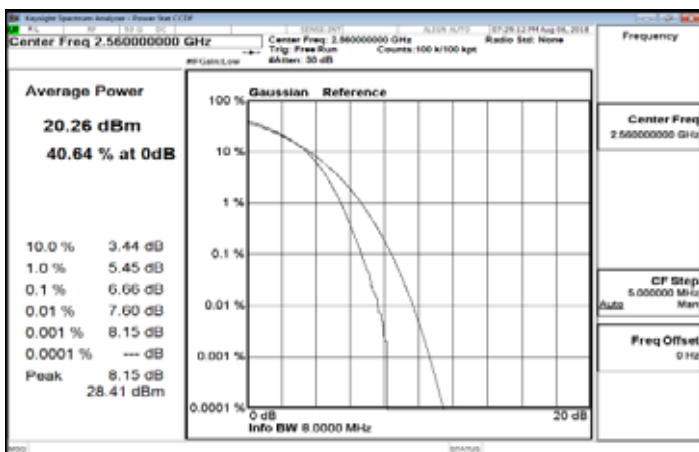
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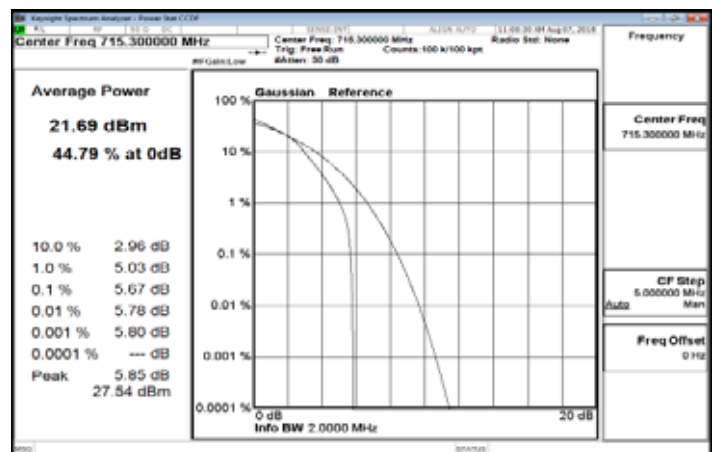
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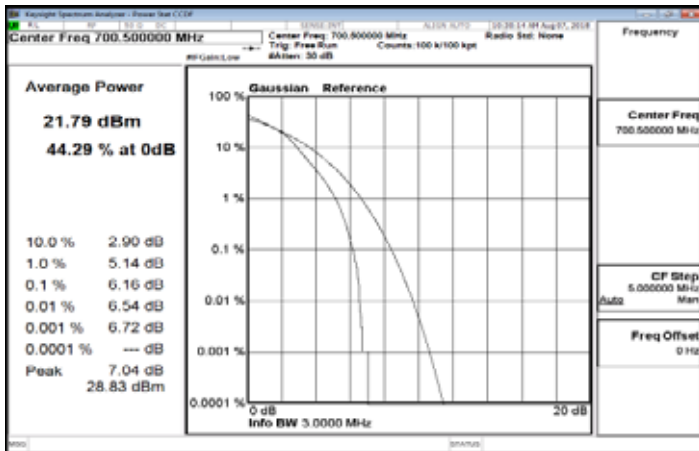


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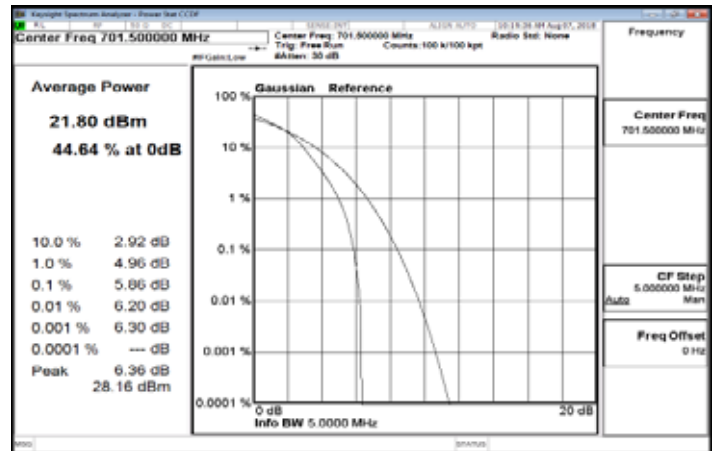
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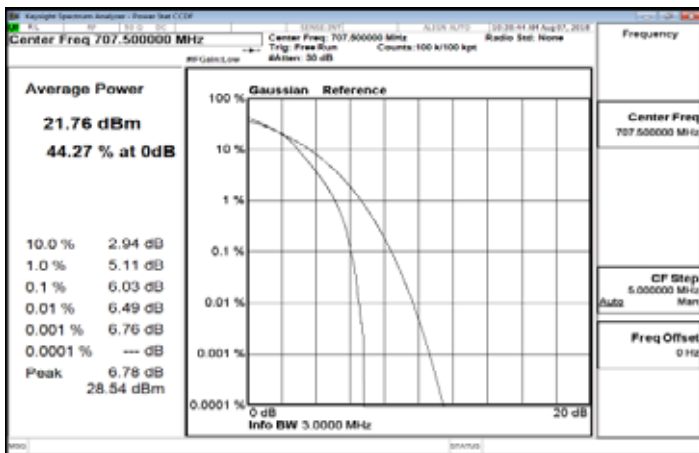
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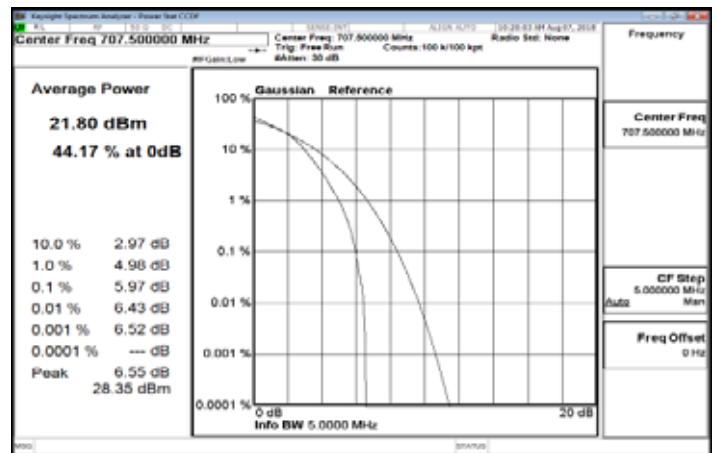
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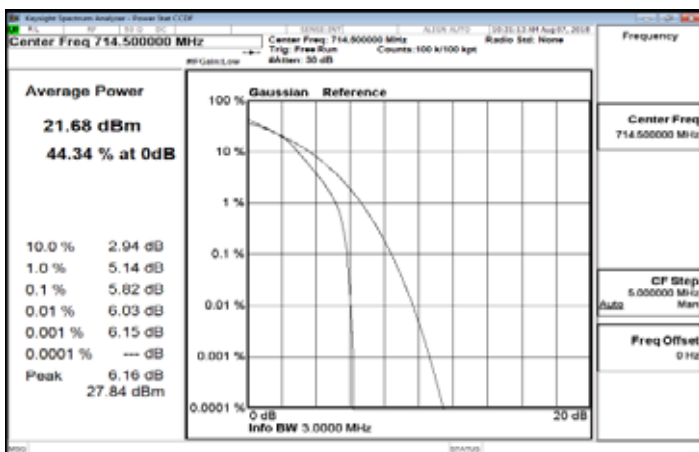
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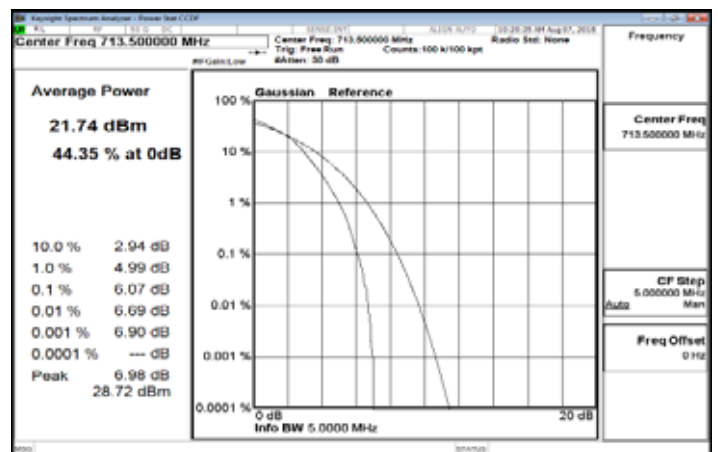
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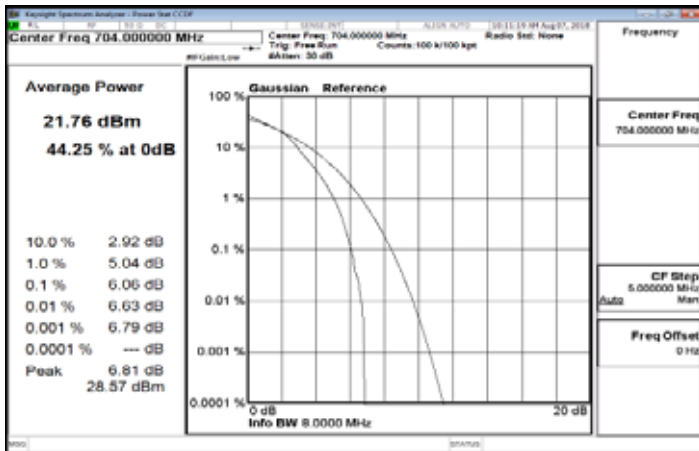
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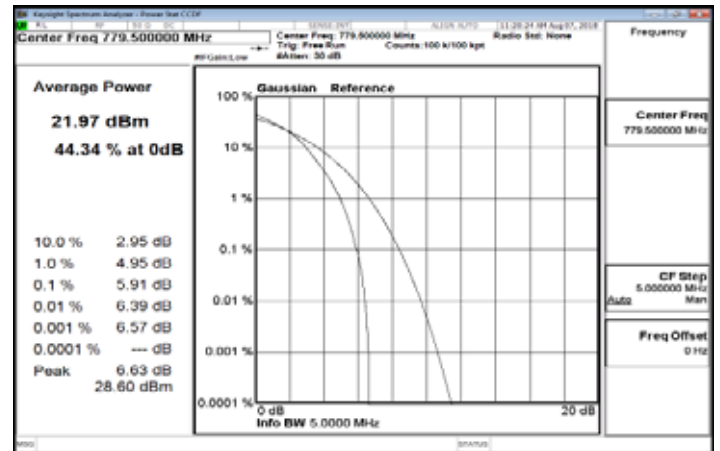
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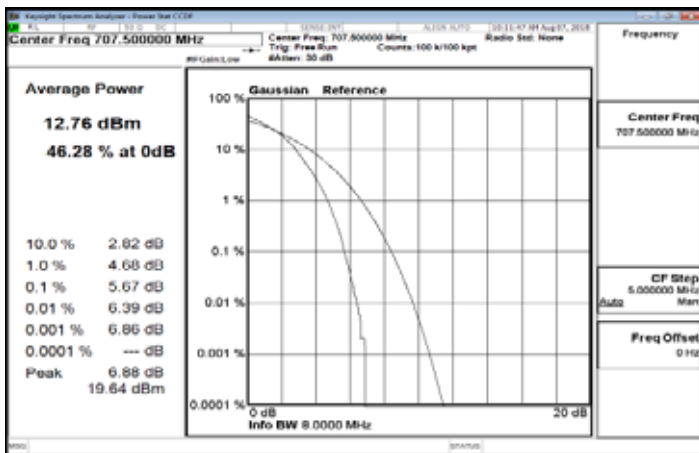
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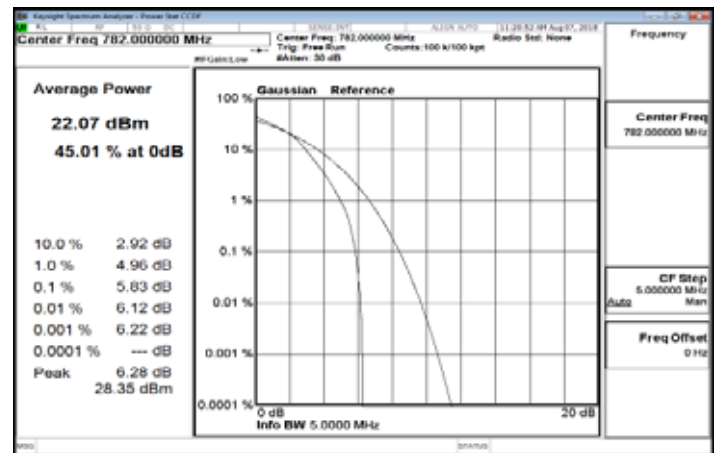
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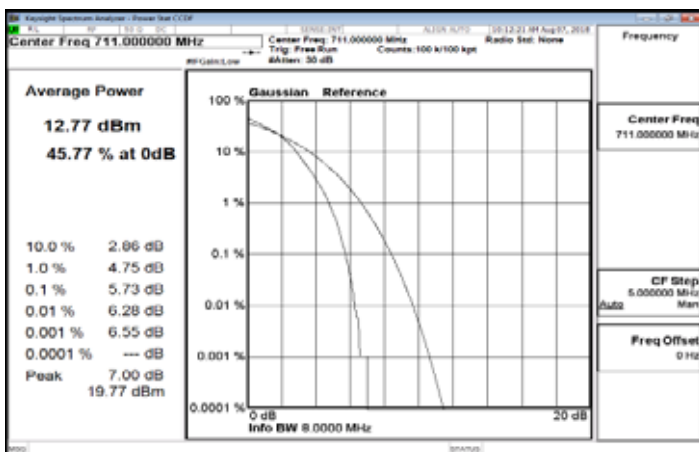
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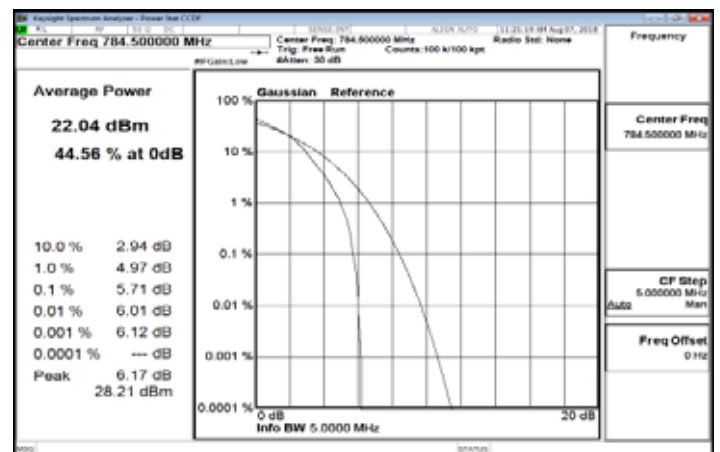
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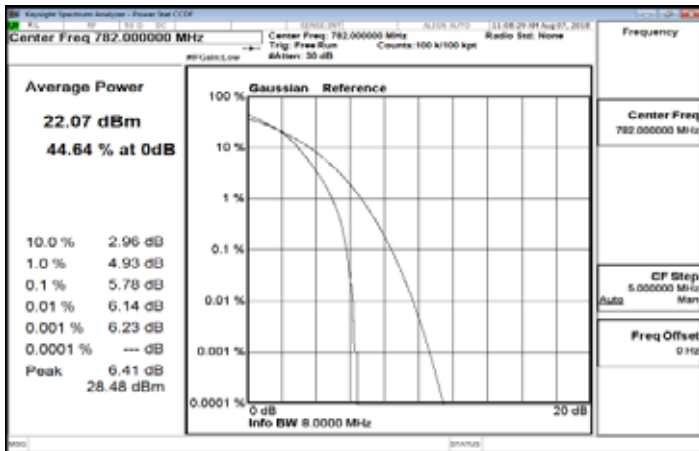
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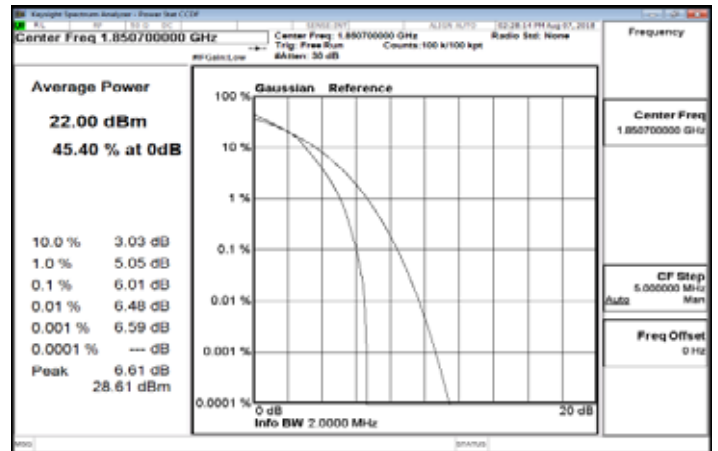
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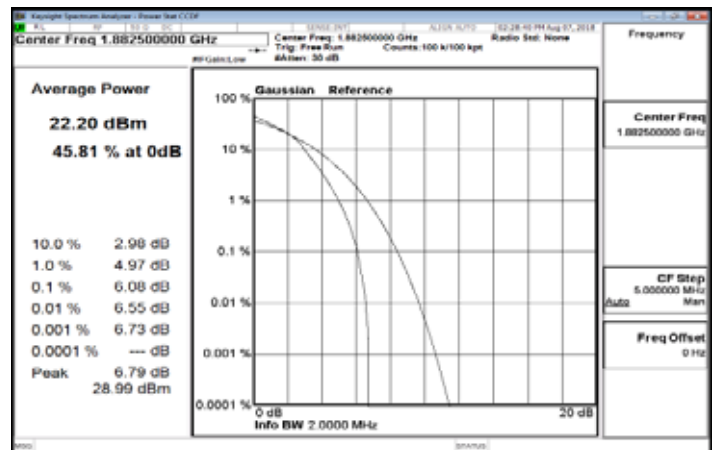
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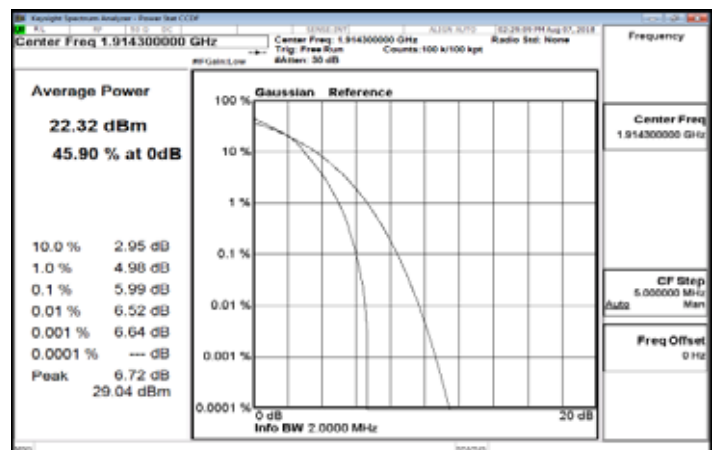
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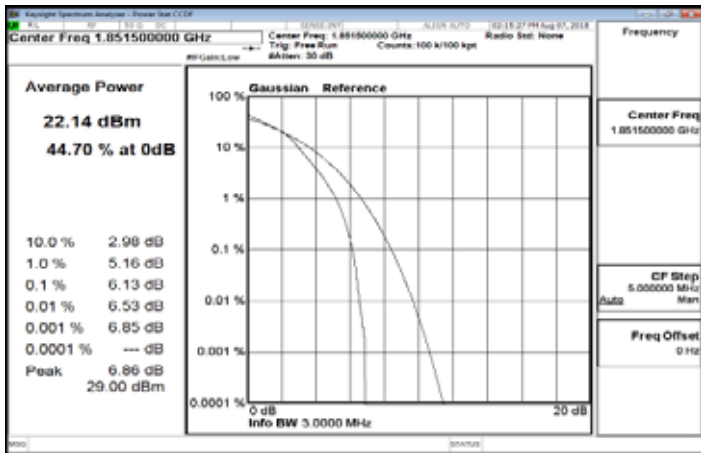
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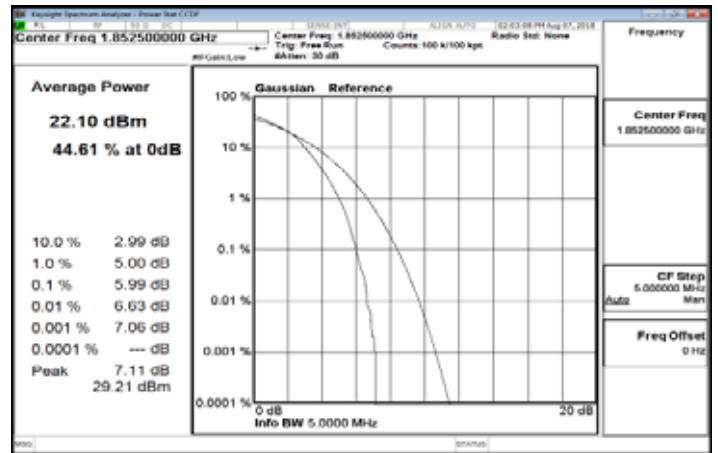
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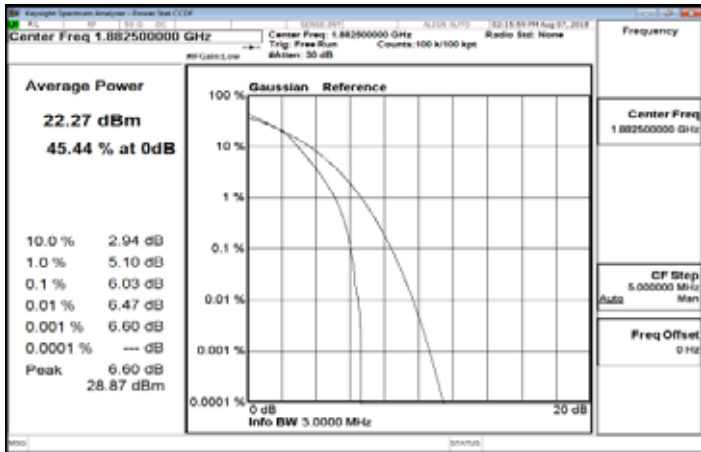
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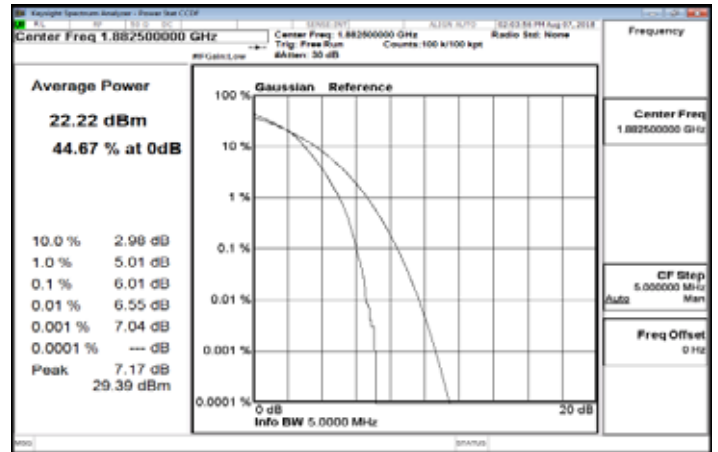
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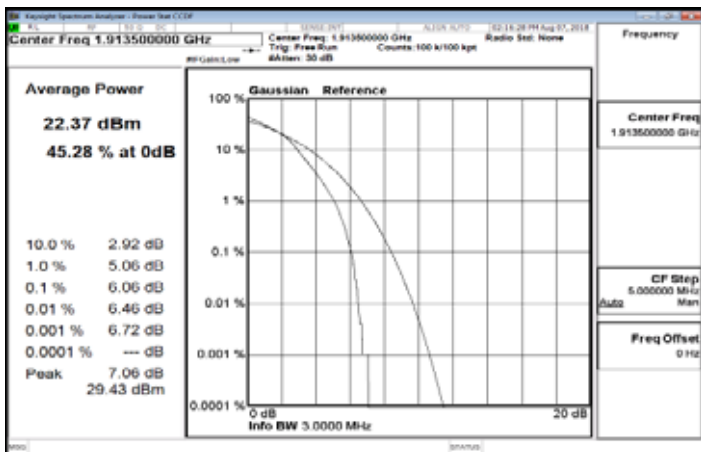
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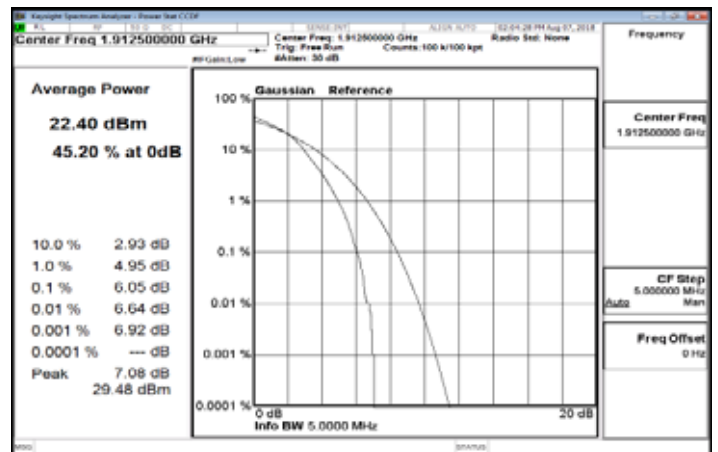
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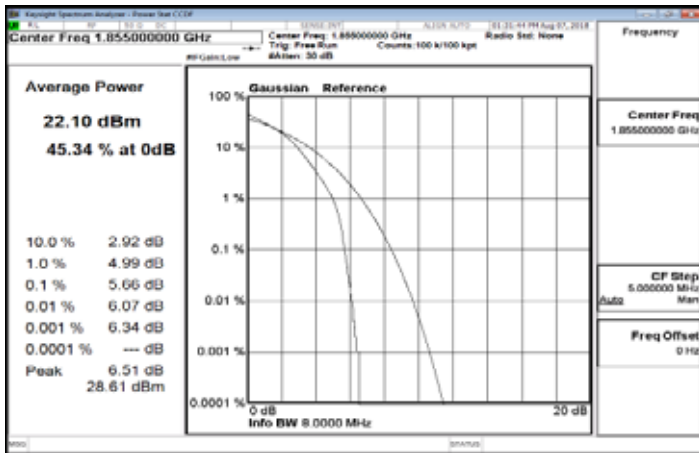


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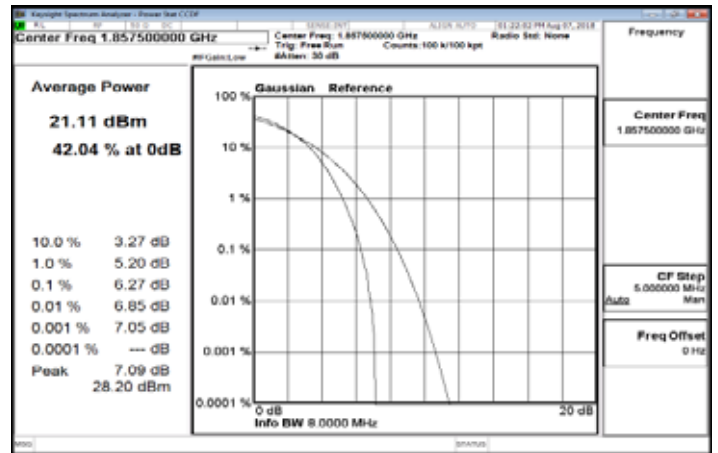
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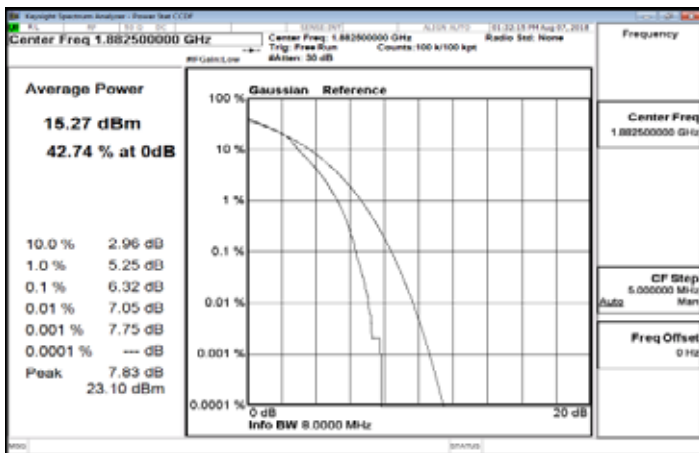
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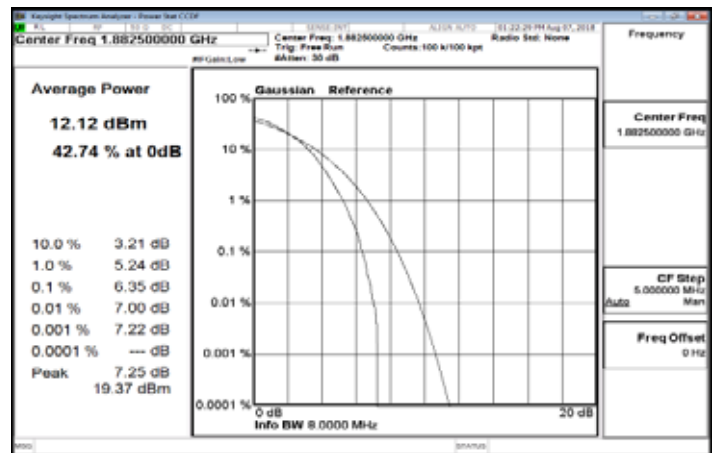
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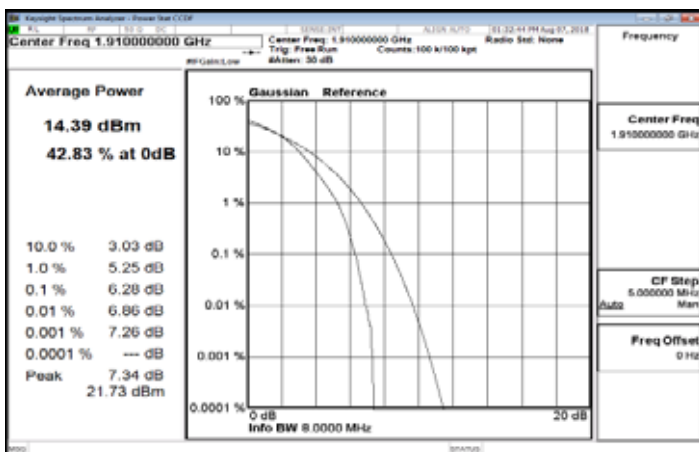
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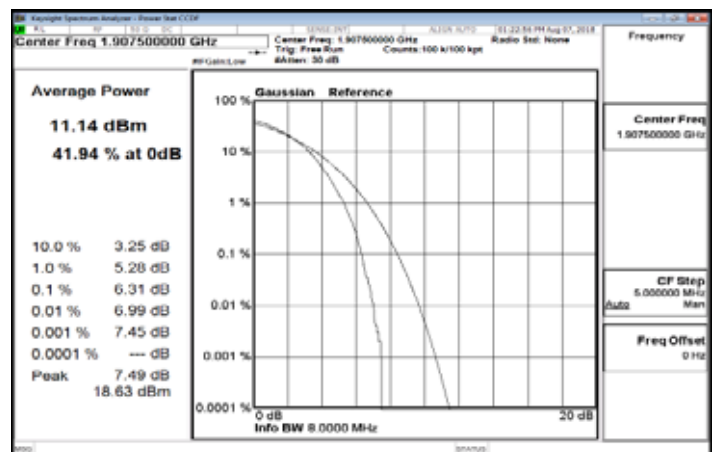
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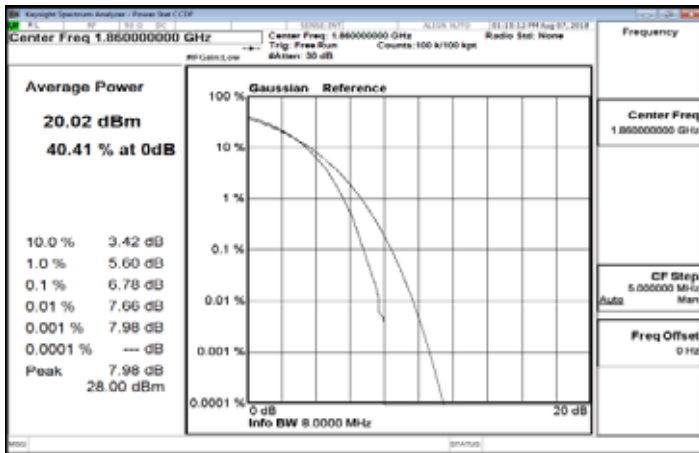


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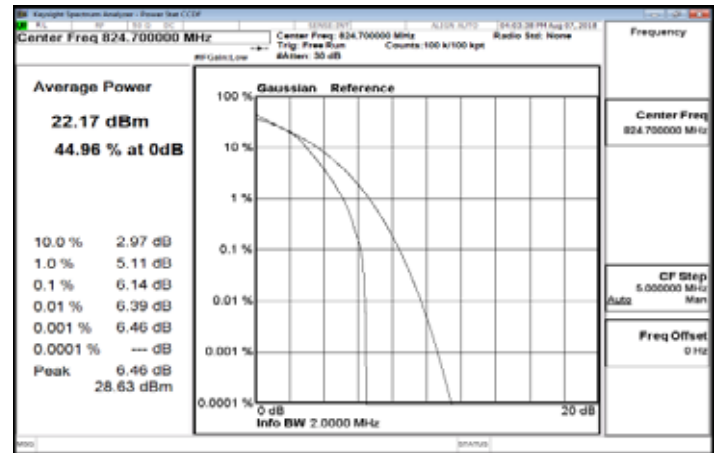
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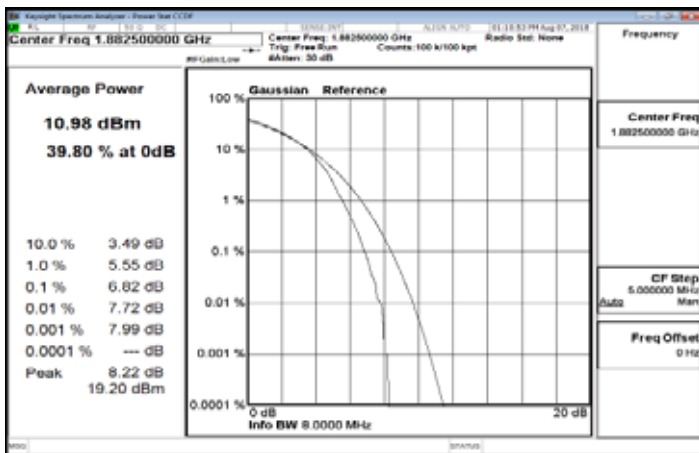
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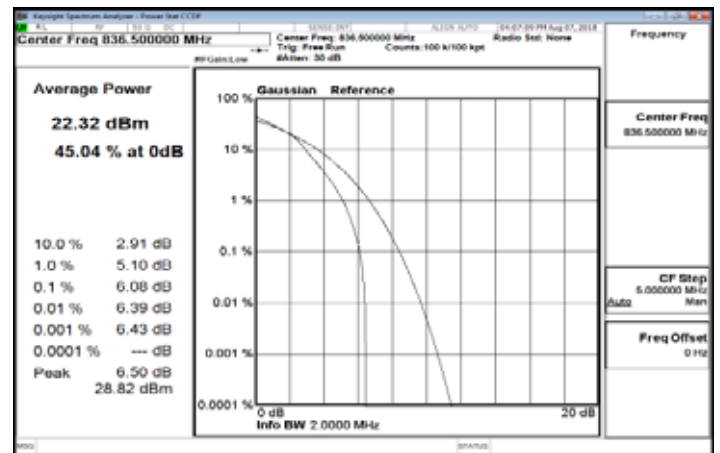
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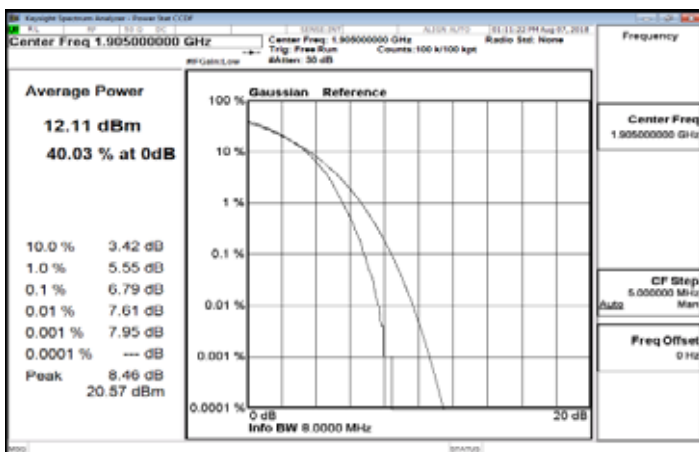
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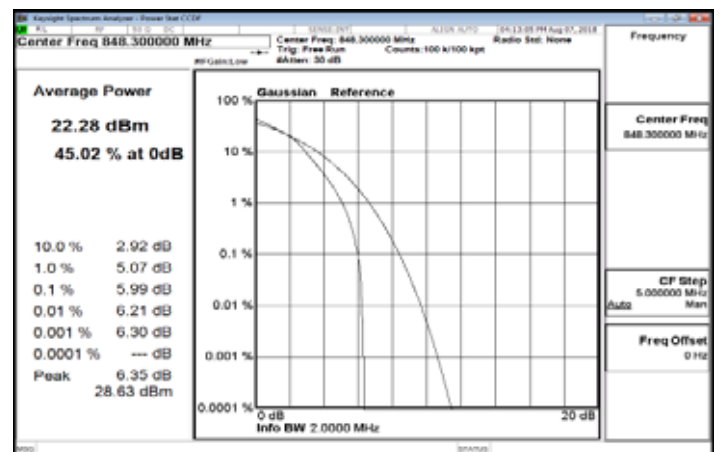
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LTE_Band25_20MHz_16QAM_100_0_HighCH26590-1905



LTE_Band26_1_4MHz_16QAM_6_0_HighCH27033-848.3



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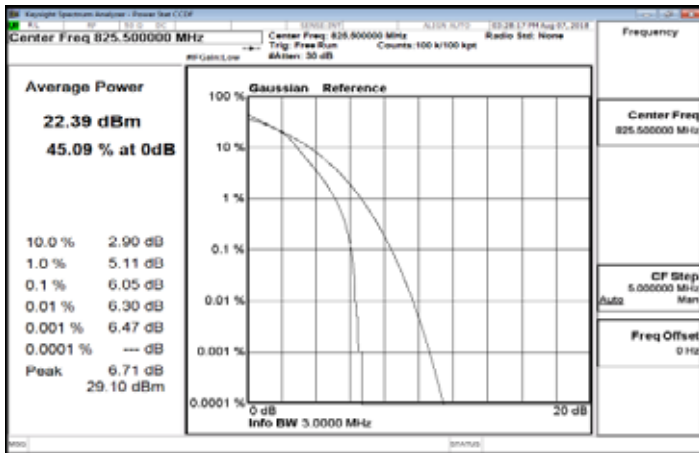
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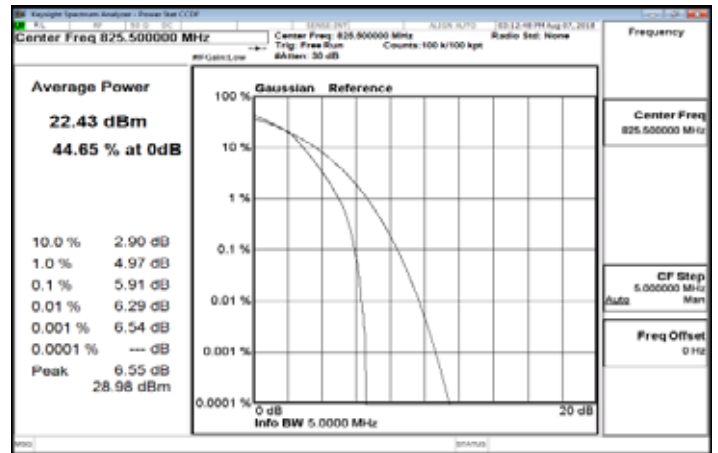
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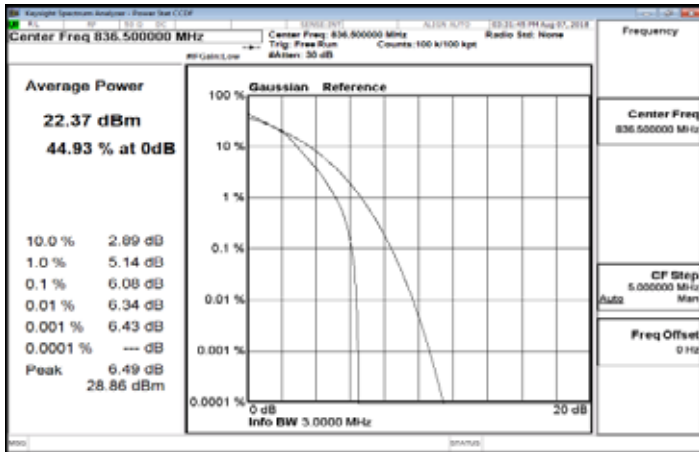
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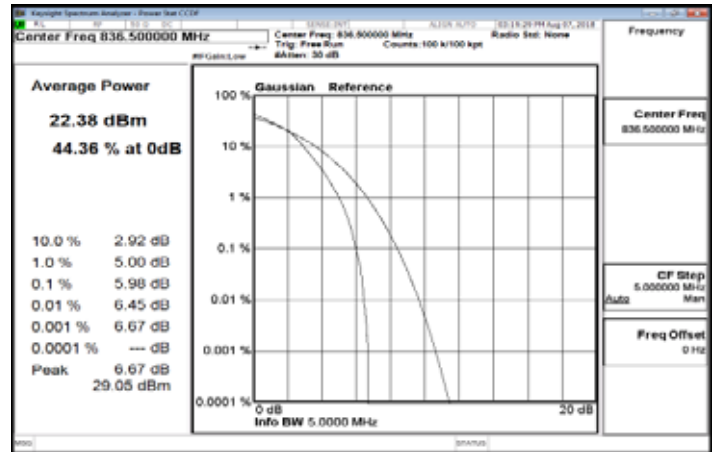
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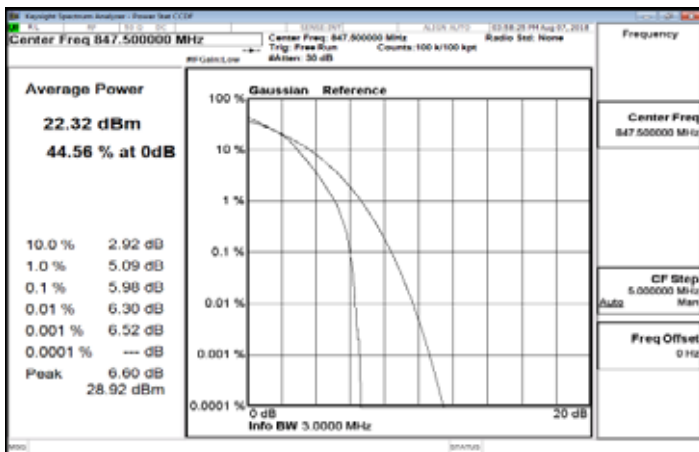
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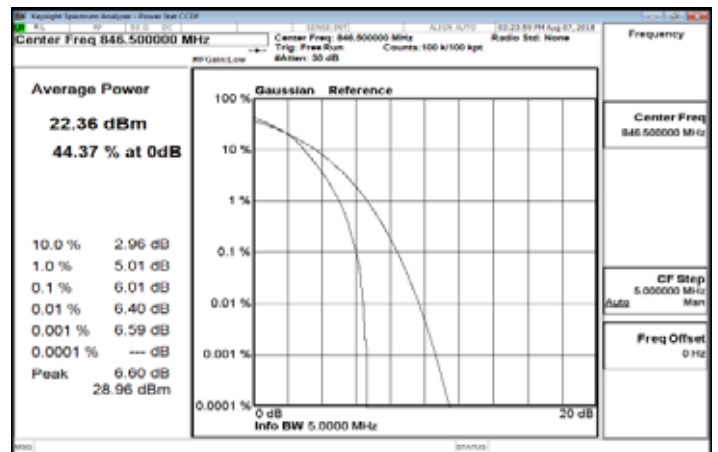
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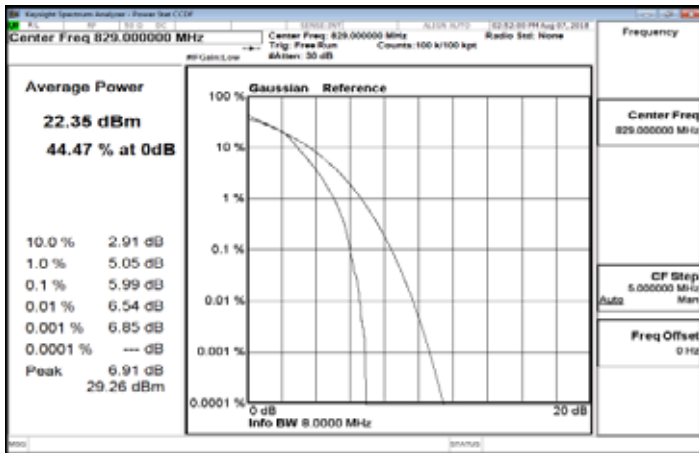
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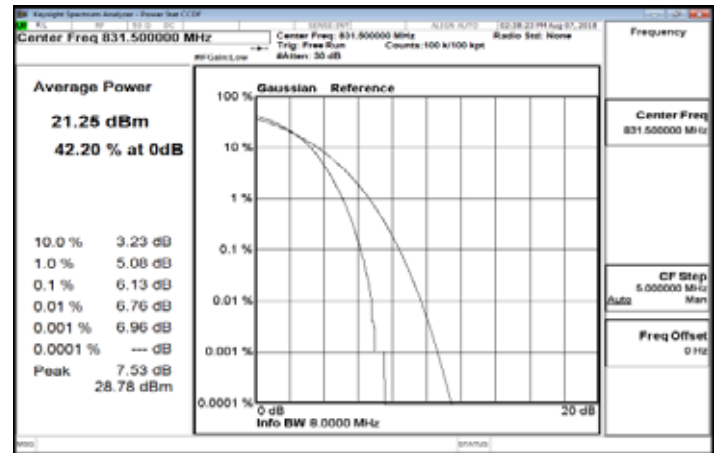
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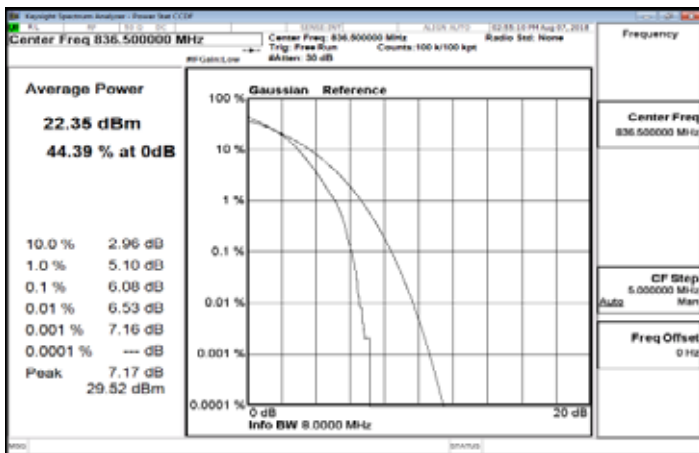
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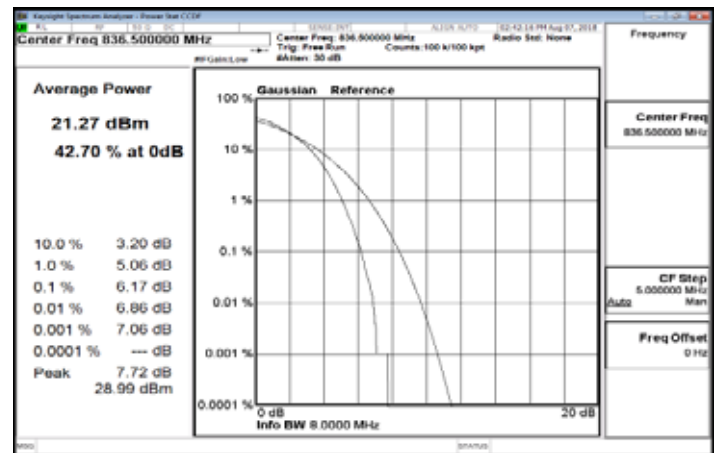
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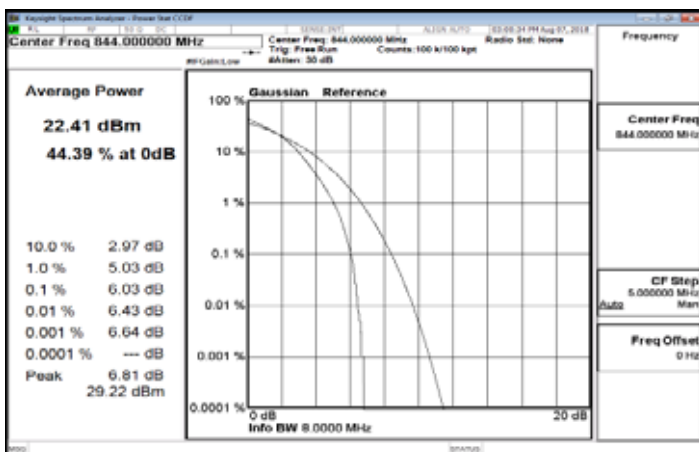
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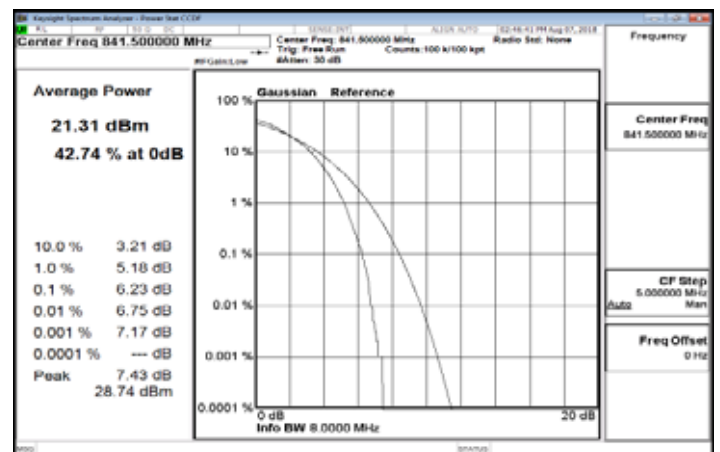
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LTE_Band26_10MHz_16QAM_50_0_HighCH26990-844



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