

3GHz~10GHz_Band41_20MHz_QPSK_1_0_LowCH39750



30MHz~3GHz_Band41_20MHz_QPSK_1_0_HighCH41490



30MHz~3GHz_Band41_20MHz_QPSK_1_0_MidCH40620



3GHz~10GHz_Band41_20MHz_QPSK_1_0_HighCH41490



3GHz~10GHz_Band41_20MHz_QPSK_1_0_MidCH40620



30MHz~3GHz_Band66_1_4MHz_QPSK_1_0_LowCH131979



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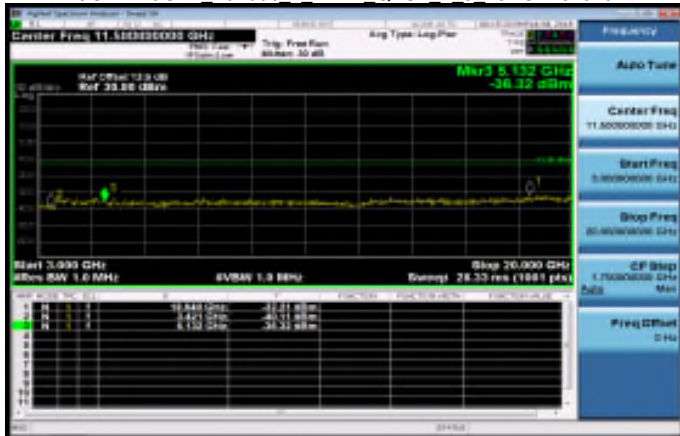
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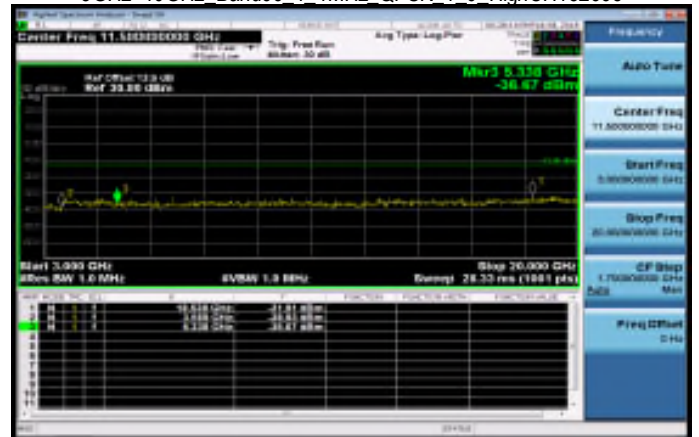
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30MHz~3GHz_Band66_1_4MHz_QPSK_1_0_MidCH132322



3GHz~10GHz_Band66_1_4MHz_QPSK_1_0_HighCH132665



3GHz~10GHz_Band66_1_4MHz_QPSK_1_0_MidCH132322



30MHz~3GHz_Band66_3MHz_QPSK_1_0_LowCH131987



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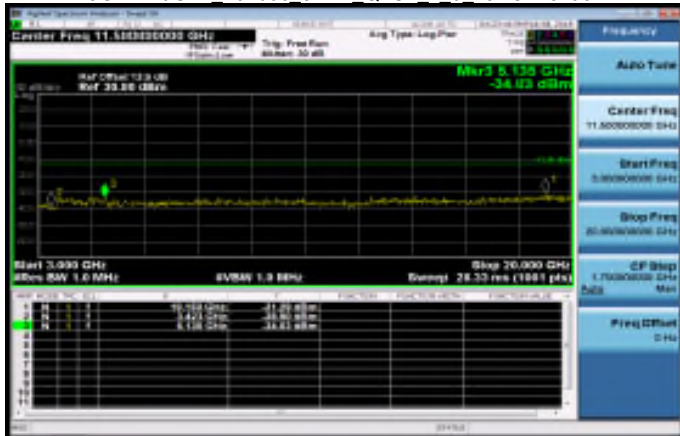
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30MHz~3GHz_Band66_3MHz_QPSK_1_0_HighCH132657



30MHz~3GHz_Band66_3MHz_QPSK_1_0_MidCH132322



3GHz~10GHz_Band66_3MHz_QPSK_1_0_HighCH132657



3GHz~10GHz_Band66_3MHz_QPSK_1_0_MidCH132322



30MHz~3GHz_Band66_5MHz_QPSK_1_0_LowCH131997



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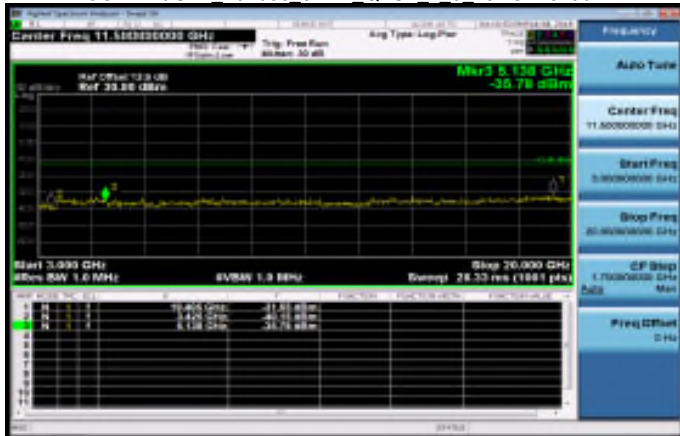
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30MHz~3GHz Band66 5MHz QPSK 1 0 HighCH132647



30MHz~3GHz Band66 5MHz QPSK 1 0 MidCH132322



3GHz~10GHz Band66 5MHz QPSK 1 0 HighCH132647



3GHz~10GHz Band66 5MHz QPSK 1 0 MidCH132322



30MHz~3GHz Band66 10MHz QPSK 1 0 LowCH132022



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30MHz~3GHz Band66 10MHz QPSK 1_0 MidCH132322



3GHz~10GHz Band66 10MHz QPSK 1_0 HighCH132622



3GHz~10GHz Band66 10MHz QPSK 1_0 MidCH132322



30MHz~3GHz Band66 15MHz QPSK 1_0 LowCH132047



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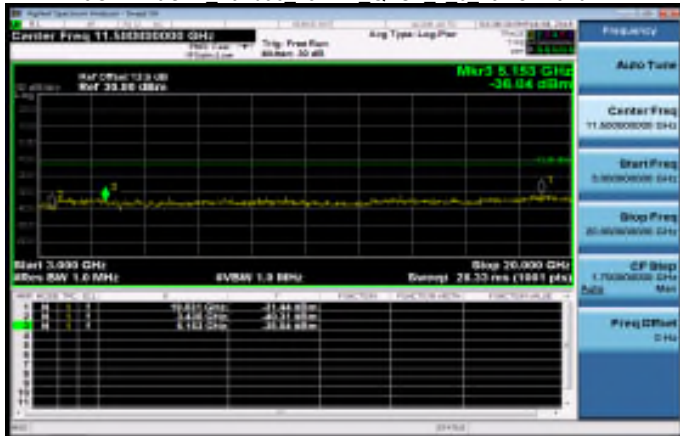
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30MHz~3GHz Band66 15MHz QPSK 1_0 HighCH132597



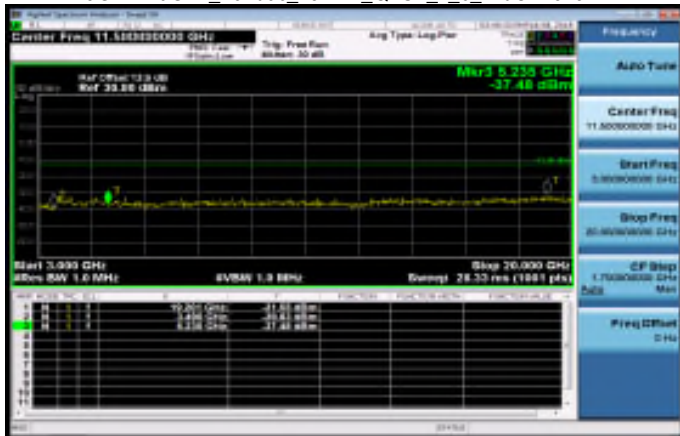
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3GHz~10GHz Band66 15MHz QPSK 1_0 HighCH132597



3GHz~10GHz Band66 15MHz QPSK 1_0 MidCH132322



30MHz~3GHz Band66 20MHz QPSK 1_0 LowCH132072



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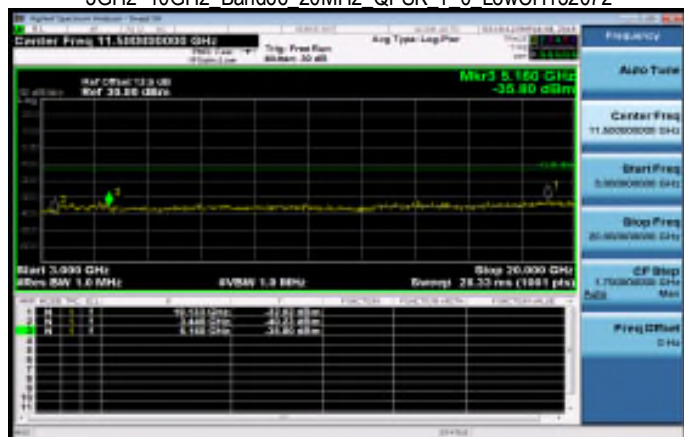
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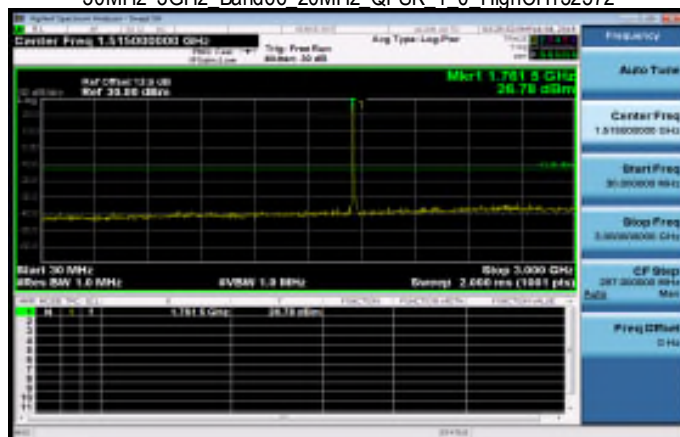
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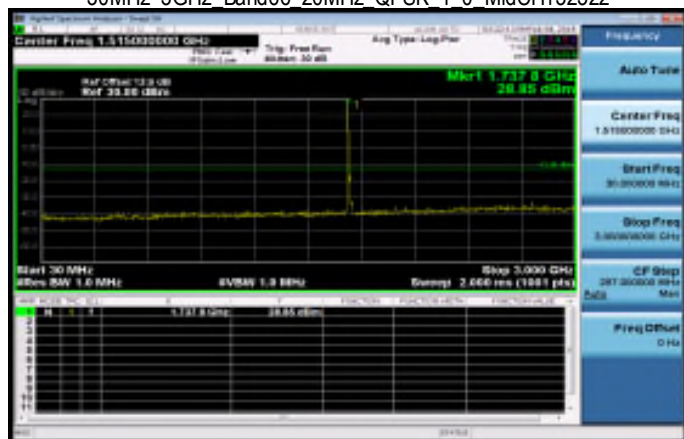
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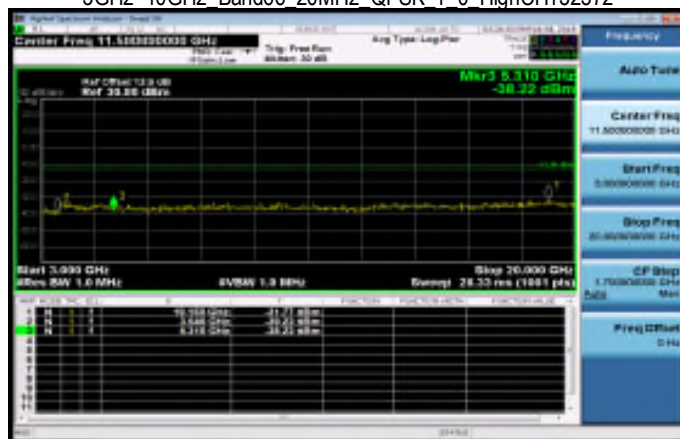
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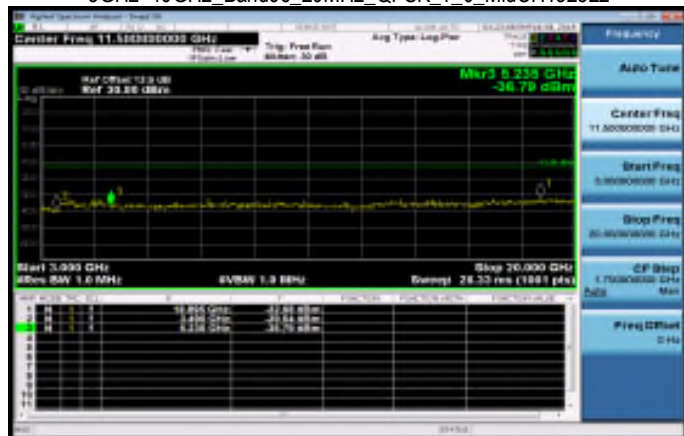
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3GHz~10GHz_Band66_20MHz_QPSK_1_0_HighCH132572



3GHz~10GHz_Band66_20MHz_QPSK_1_0_MidCH132322



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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 at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

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

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According to RSS-130 §4.6

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

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

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

P (dBW), by at least:

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

According to RSS-132 §5.5

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

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

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

According to RSS-133 §6.5.1

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

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

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

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According to RSS-139 §6.5

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

According to RSS-195 §5.6.2

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

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

Frequency (MHz)	Attenuation (dB)
<2200	$43 + 10 \log_{10}(p)$
2200 - 2288	$70 + 10 \log_{10}(p)$
2288 - 2292	$67 + 10 \log_{10}(p)$
2292 - 2296	$61 + 10 \log_{10}(p)$
2296 - 2300	$55 + 10 \log_{10}(p)$
2300 - 2305	$43 + 10 \log_{10}(p)$
2305 - 2320	$43 + 10 \log_{10}(p)$ ^{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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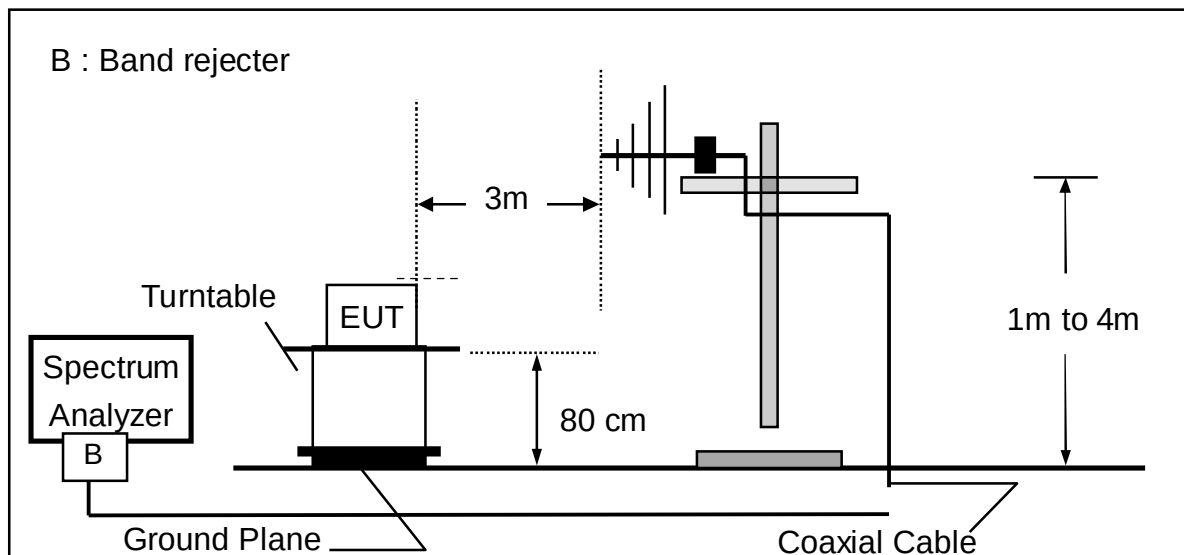
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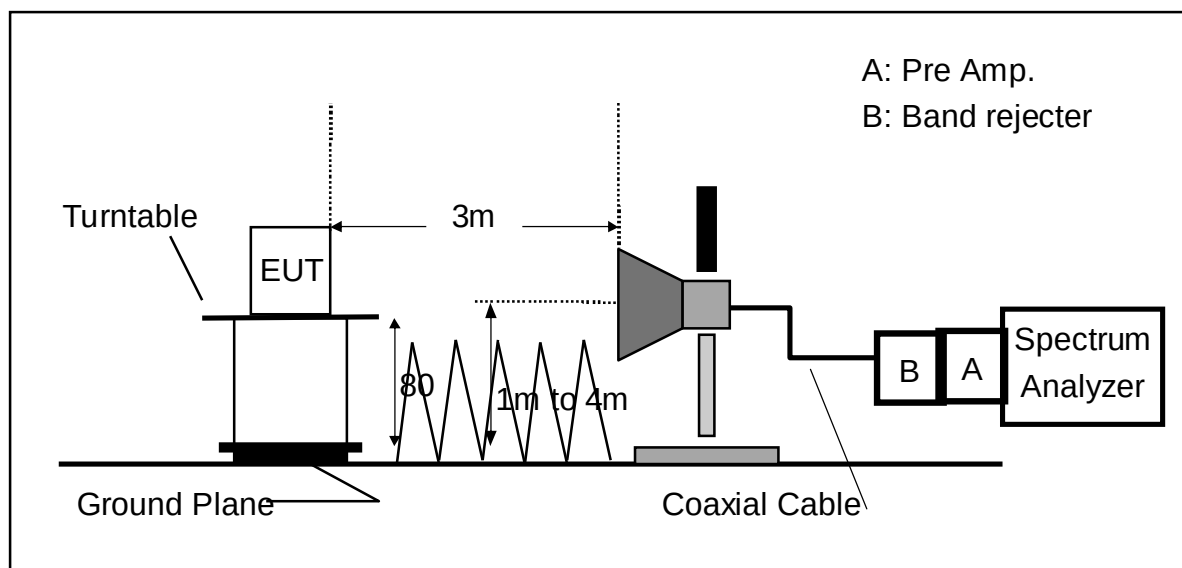
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10.2. EUT Setup

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.

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

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

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

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10.4. Measurement Equipment Used:

ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESU 40	100363	04/18/2017	04/17/2018
Broadband Antenna	TESEQ	CBL 6112D	35240	11/03/2017	11/02/2018
Broadband Antenna	TESEQ	CBL 6112D	35243	11/09/2017	11/08/2018
Horn Antenna	ETS-Lindgren	3117	00143272	12/15/2017	12/16/2018
Horn Antenna	ETS-Lindgren	3117	143279	11/14/2017	11/13/2018
Horn Antenna	Schwarzbeck	BBHA9170	184	12/11/2017	12/10/2018
Horn Antenna	Schwarzbeck	BBHA9170	185	08/01/2017	07/31/2018
Pre Amplifier	EMC Instruments	EMC330	980096	12/24/2017	12/23/2018
Pre Amplifier	EMC Instruments	EMC0011830	980199	12/24/2017	12/23/2018
Pre Amplifier	R&S	SCU-18	10204	12/24/2017	12/23/2018
Pre Amplifier	R&S	SCU-26	100780	12/24/2017	12/23/2018
Pre Amplifier	EMC Instruments	EMC184045B	980135	12/24/2017	12/23/2018
Coaxial Cable	Huber+Suhner	RG 214/U	966Rx 9K-30M	12/24/2017	12/23/2018
Coaxial Cable	Huber+Suhner	RG 214/U SUCOFLEX 104	966Rx 30M-3G	12/24/2017	12/23/2018
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Rx 1G-18G	12/24/2017	12/23/2018
Coaxial Cable	Huber+Suhner	mini 141-12 SUCOFLEX 104	966Rx 18G-40G	12/24/2017	12/23/2018
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Tx 30M-18G	12/24/2017	12/23/2018
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	966Tx 18G-40G	12/24/2017	12/23/2018
Attenuator	WOKEN	218FS-10	RF27	12/24/2017	12/23/2018
Communication Tester	Anritsu	MT8820C	6201107337	06/11/2017	06/10/2018
Site NSA	SGS	966 Chamber C	SAC-C	03/02/2017	03/01/2018
Site VSWR	SGS	966 Chamber C	SAC-C	03/02/2017	03/01/2018
DC Power Supply	HOLA	DP-3003	D7070035	05/04/2017	05/03/2018
Controller	MF	MF-7802	N/A	N.C.R.	N.C.R.
Antenna Master	MF	N/A	N/A	N.C.R.	N.C.R.
Turn Table	MF	N/A	N/A	N.C.R.	N.C.R.
Test Software	World-Pallas	Dr. E	V 3.0 Lite	N.C.R.	N.C.R.

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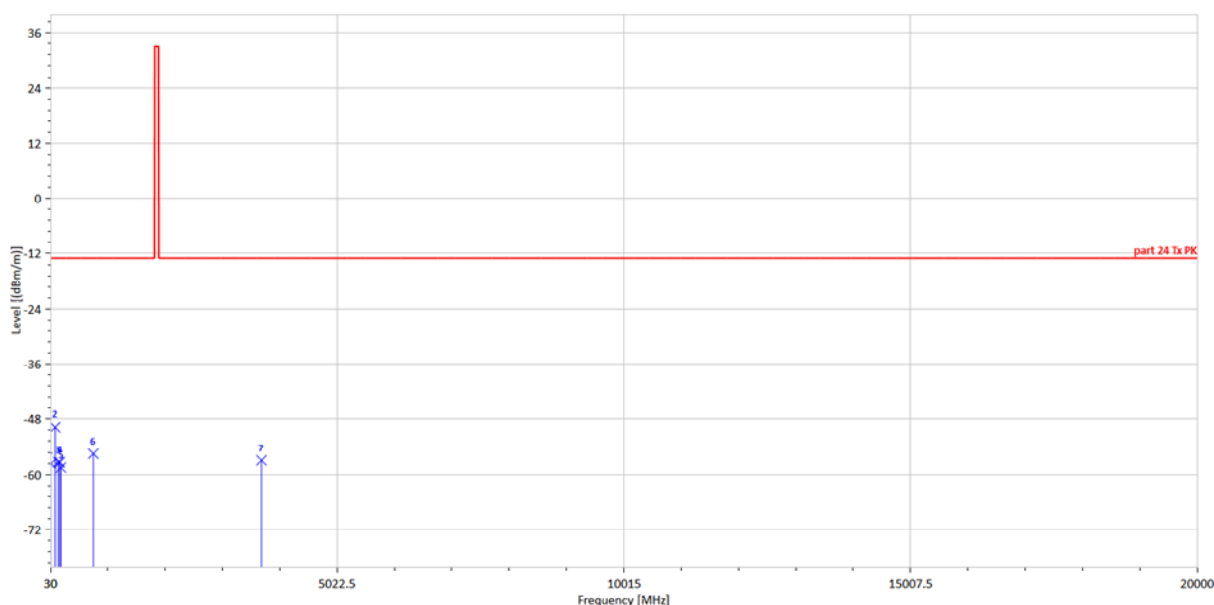
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10.5. Measurement Result:

Radiated Spurious Emission Measurement Result: HSUPA Band 2 Mode

Operation Mode :	HSUPA B2	Test Date :	2018/1/19
Fundamental Frequency :	1852.4 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP/EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBd/dBi	Loss dB	@3m dBm/m	dB
38.73	S	-57.66	-41.67	-15.13	-0.85	-13.01	-44.65
111.48	S	-49.76	-44.74	-3.56	-1.46	-13.01	-36.75
164.83	S	-57.35	-57.48	1.93	-1.80	-13.01	-44.34
192.96	S	-57.37	-59.45	4.03	-1.95	-13.01	-44.36
211.39	S	-58.48	-60.44	4.00	-2.05	-13.01	-45.47
775.93	S	-55.53	-56.69	5.19	-4.03	-13.01	-42.52
3704.80	H	-56.94	-60.46	12.42	-8.90	-13.01	-43.93

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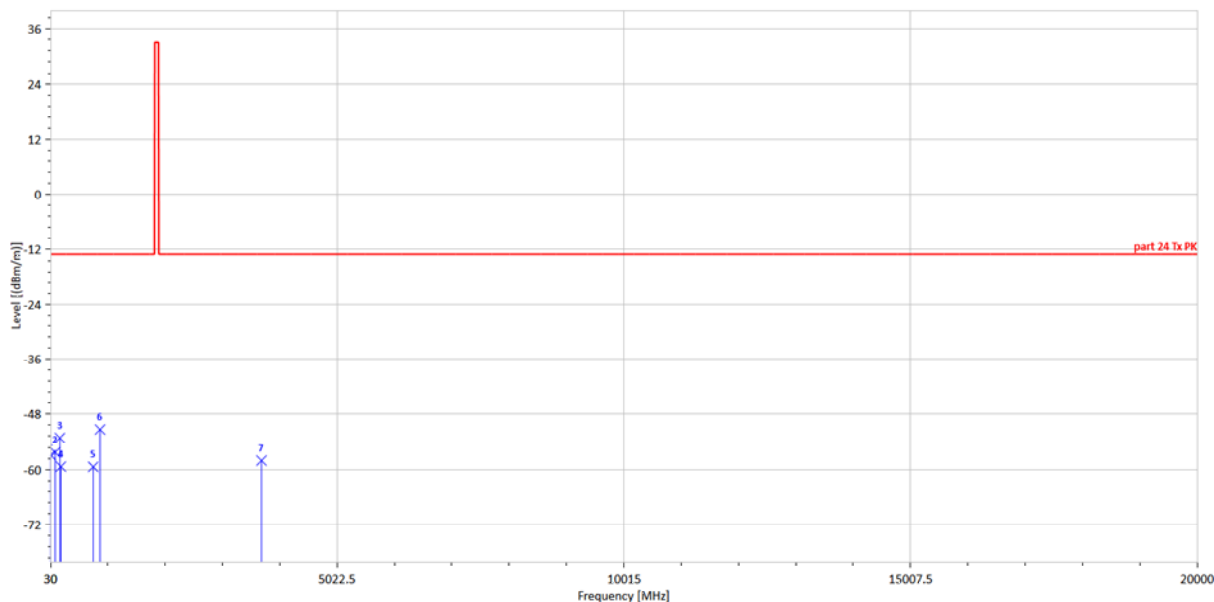
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Operation Mode :	HSUPA B2	Test Date :	2018/1/19
Fundamental Frequency :	1852.4 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



Freq.	Note	ERP/EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBd/dBi	Loss dB	@3m dBm/m	dB
32.91	S	-56.89	-36.08	-19.97	-0.83	-13.01	-43.88
111.48	S	-56.31	-51.30	-3.56	-1.46	-13.01	-43.30
192.96	S	-53.13	-55.21	4.03	-1.95	-13.01	-40.12
211.39	S	-59.37	-61.32	4.00	-2.05	-13.01	-46.36
773.99	S	-59.41	-60.57	5.19	-4.03	-13.01	-46.40
893.30	S	-51.31	-52.12	5.21	-4.40	-13.01	-38.30
3704.80	H	-58.07	-61.59	12.42	-8.90	-13.01	-45.06

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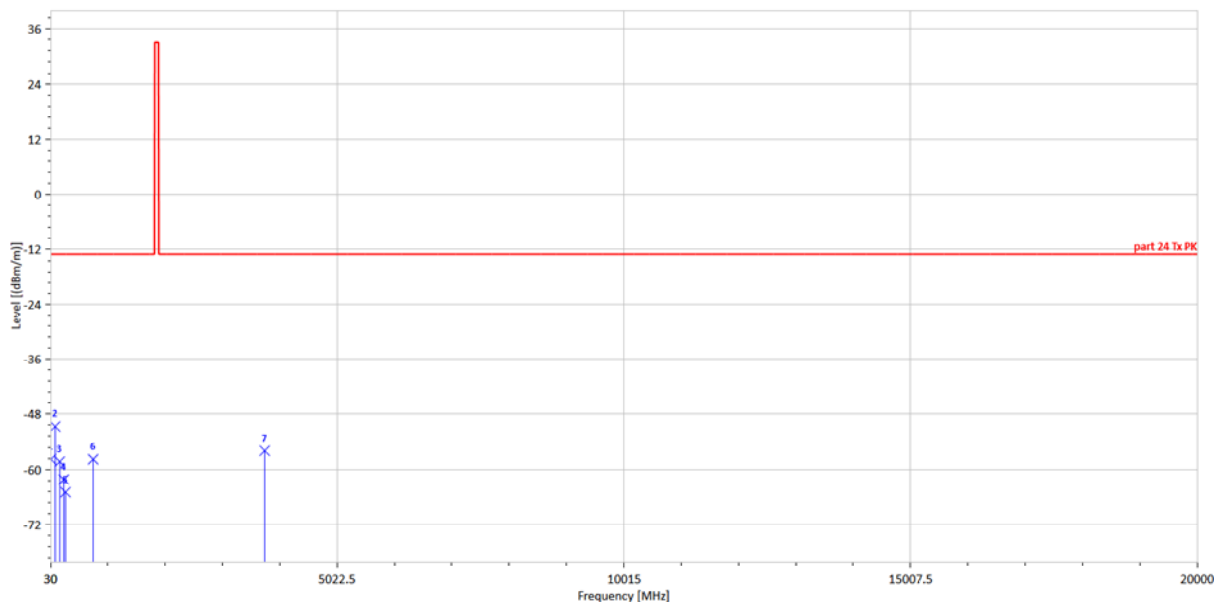
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Operation Mode :	HSUPA B2	Test Date :	2018/1/19
Fundamental Frequency :	1880 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP/EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBd/dBi	Loss dB	@3m dBm/m	dB
37.76	S	-57.81	-41.04	-15.92	-0.85	-13.01	-44.80
111.48	S	-50.67	-45.65	-3.56	-1.46	-13.01	-37.66
191.02	S	-58.31	-60.47	4.10	-1.95	-13.01	-45.30
260.86	S	-62.18	-62.03	2.15	-2.30	-13.01	-49.17
291.90	S	-64.98	-65.98	3.43	-2.43	-13.01	-51.97
773.02	S	-57.81	-58.98	5.19	-4.02	-13.01	-44.80
3760.00	H	-55.97	-59.48	12.46	-8.94	-13.01	-42.96

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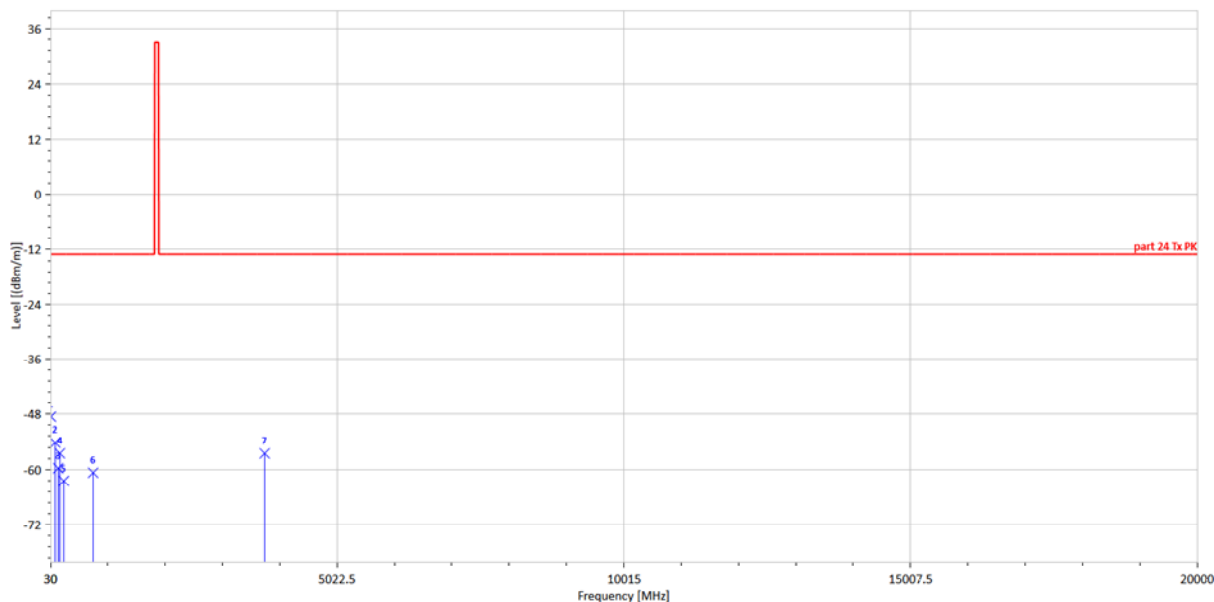
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Operation Mode :	HSUPA B2	Test Date :	2018/1/19
Fundamental Frequency :	1880 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



Freq.	Note	ERP/EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBd/dBi	Loss dB	@3m dBm/m	dB
37.76	S	-48.54	-31.77	-15.92	-0.85	-13.01	-35.53
112.45	S	-54.18	-49.19	-3.52	-1.46	-13.01	-41.17
164.83	S	-59.72	-59.85	1.93	-1.80	-13.01	-46.71
193.93	S	-56.52	-58.56	4.00	-1.96	-13.01	-43.51
261.83	S	-62.49	-62.43	2.25	-2.31	-13.01	-49.48
773.02	S	-60.70	-61.87	5.19	-4.02	-13.01	-47.69
3760.00	H	-56.54	-60.05	12.46	-8.94	-13.01	-43.53

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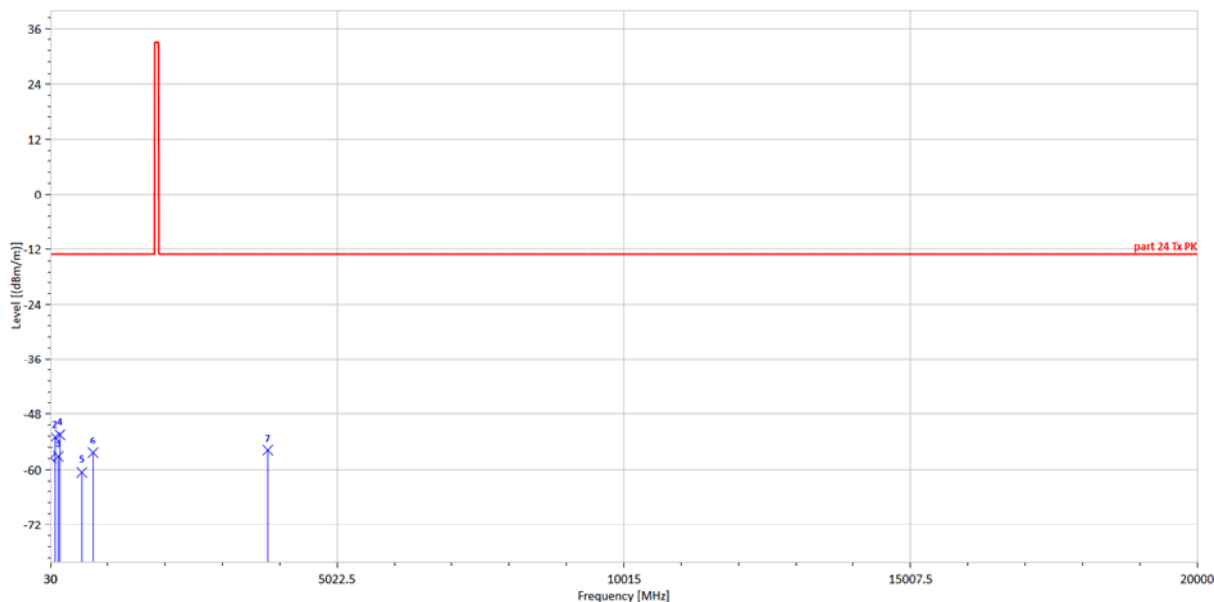
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Operation Mode :	HSUPA B2	Test Date :	2018/1/19
Fundamental Frequency :	1907.6 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP/EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBd/dBi	Loss dB	@3m dBm/m	dB
37.76	S	-57.48	-40.71	-15.92	-0.85	-13.01	-44.47
111.48	S	-52.92	-47.90	-3.56	-1.46	-13.01	-39.91
165.80	S	-57.21	-57.46	2.05	-1.80	-13.01	-44.20
193.93	S	-52.40	-54.44	4.00	-1.96	-13.01	-39.39
576.11	S	-60.61	-61.29	4.15	-3.48	-13.01	-47.60
772.05	S	-56.40	-57.57	5.19	-4.02	-13.01	-43.39
3815.20	H	-55.87	-59.38	12.49	-8.98	-13.01	-42.86

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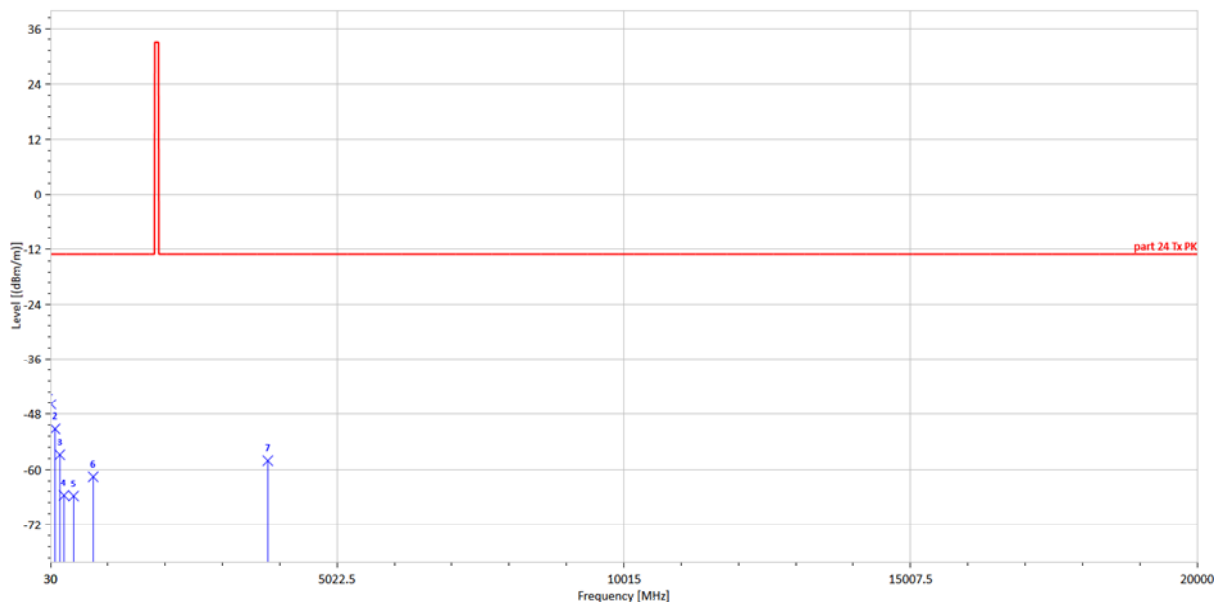
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f (886-2) 2298-0488

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Operation Mode :	HSUPA B2	Test Date :	2018/1/19
Fundamental Frequency :	1907.6 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



Freq.	Note	ERP/EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBd/dBi	Loss dB	@3m dBm/m	dB
37.76	S	-45.85	-29.08	-15.92	-0.85	-13.01	-32.84
109.54	S	-51.16	-46.11	-3.60	-1.45	-13.01	-38.15
192.96	S	-56.85	-58.93	4.03	-1.95	-13.01	-43.84
264.74	S	-65.70	-65.92	2.55	-2.32	-13.01	-52.69
433.52	S	-65.83	-66.32	3.48	-2.99	-13.01	-52.82
773.99	S	-61.54	-62.70	5.19	-4.03	-13.01	-48.53
3815.20	H	-58.12	-61.63	12.49	-8.98	-13.01	-45.11

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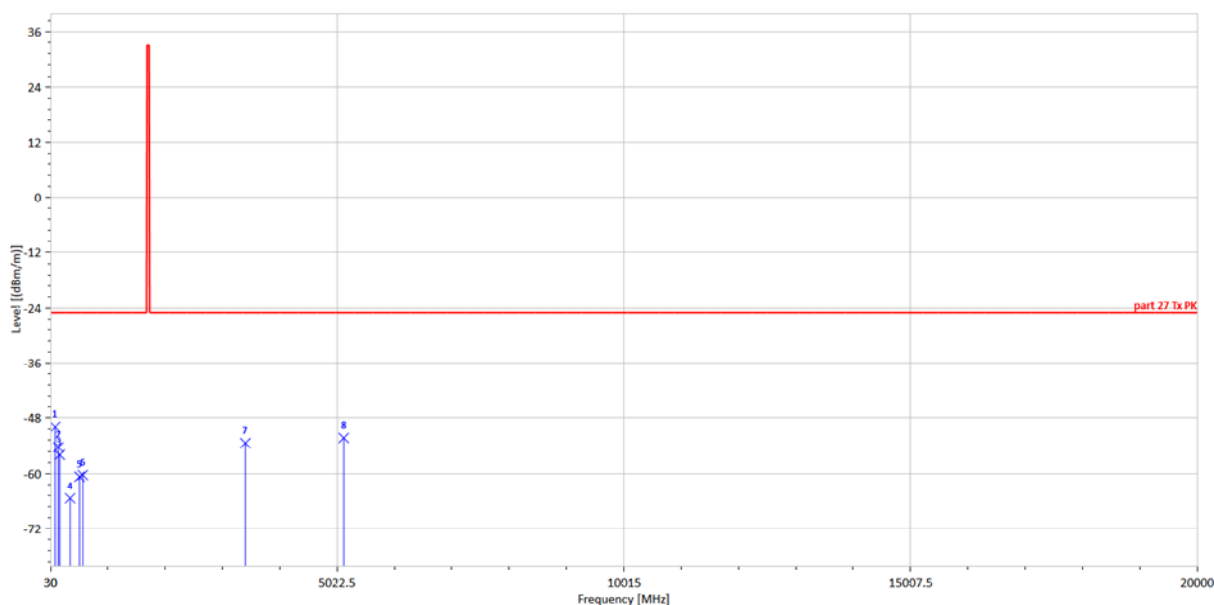
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Radiated Spurious Emission Measurement Result: WCDMA Band 4 Mode

Operation Mode :	WCDMA B4	Test Date :	2018/1/20
Fundamental Frequency :	1712.4 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP/EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBd/dBi	Loss dB	@3m dBm/m	dB
112.45	S	-49.90	-44.92	-3.52	-1.46	-25	-24.90
165.80	S	-54.30	-54.55	2.05	-1.80	-25	-29.30
191.02	S	-55.96	-58.12	4.10	-1.95	-25	-30.96
371.44	S	-65.43	-66.01	3.34	-2.76	-25	-40.43
535.37	S	-60.68	-61.30	3.99	-3.37	-25	-35.68
592.60	S	-60.33	-61.06	4.27	-3.54	-25	-35.33
3424.80	H	-53.39	-56.84	12.15	-8.70	-25	-28.39
5137.20	H	-52.24	-54.85	12.64	-10.03	-25	-27.24

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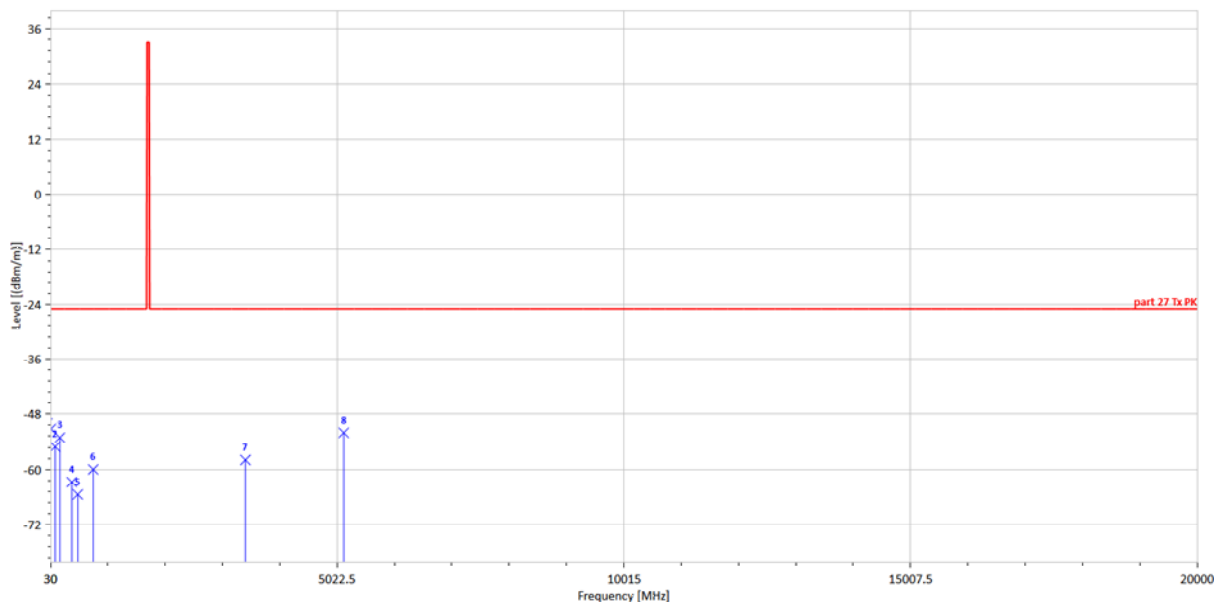
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Operation Mode :	WCDMA B4	Test Date :	2018/1/20
Fundamental Frequency :	1712.4 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



Freq.	Note	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBd/dBi	dB	dBm/m	dB
37.76	S	-51.18	-34.16	-15.92	-1.10	-25	-26.18
111.48	S	-55.07	-49.65	-3.56	-1.86	-25	-30.07
192.96	S	-53.06	-54.57	4.03	-2.53	-25	-28.06
401.51	S	-62.74	-62.20	3.21	-3.76	-25	-37.74
505.30	S	-65.46	-65.28	4.03	-4.22	-25	-40.46
773.99	S	-60.00	-59.94	5.19	-5.26	-25	-35.00
3424.80	H	-57.95	-61.40	12.15	-8.70	-25	-32.95
5137.20	H	-52.00	-54.61	12.64	-10.03	-25	-27.00

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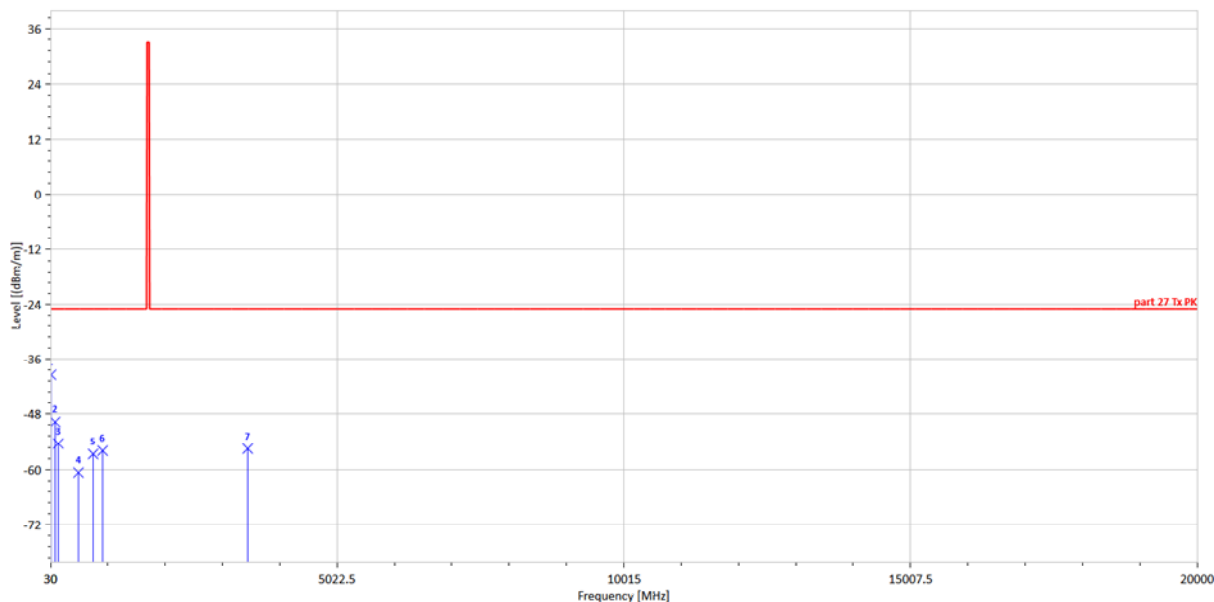
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Operation Mode :	WCDMA B4	Test Date :	2018/1/20
Fundamental Frequency :	1732.6 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP/EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi/dBi	Loss dB	@3m dBm/m	dB
40.67	S	-39.44	-24.98	-13.59	-0.87	-25	-14.44
111.48	S	-49.71	-44.69	-3.56	-1.46	-25	-24.71
164.83	S	-54.37	-54.50	1.93	-1.80	-25	-29.37
516.94	S	-60.64	-61.37	4.02	-3.29	-25	-35.64
773.02	S	-56.66	-57.83	5.19	-4.02	-25	-31.66
937.92	S	-55.95	-56.82	5.37	-4.49	-25	-30.95
3465.20	H	-55.50	-59.00	12.23	-8.73	-25	-30.50

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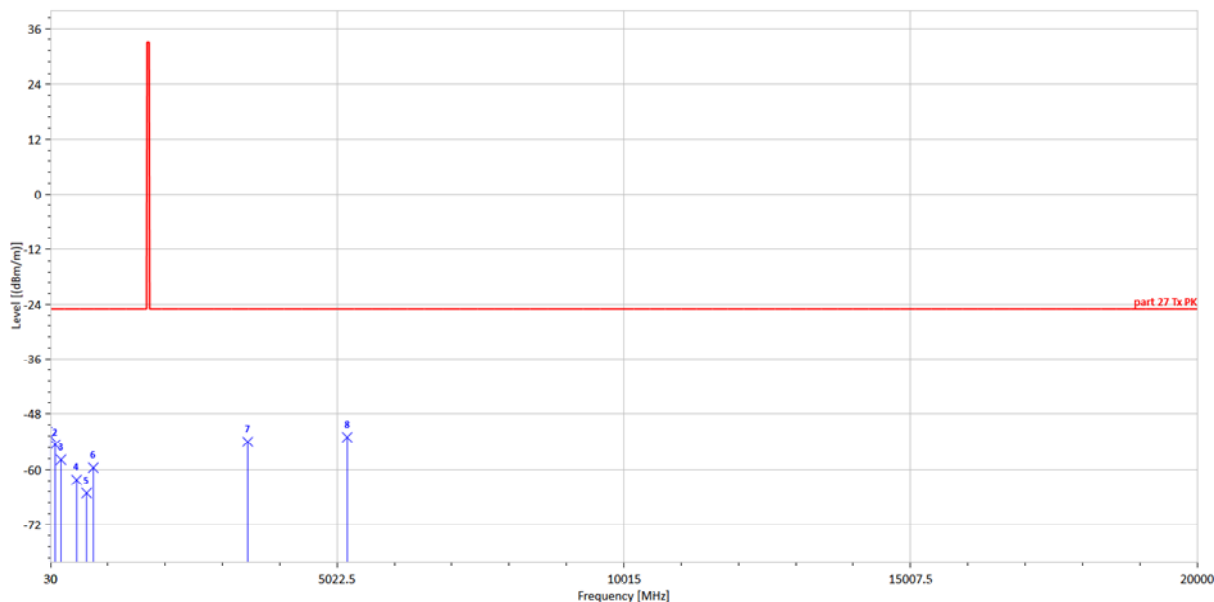
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Operation Mode :	WCDMA B4	Test Date :	2018/1/20
Fundamental Frequency :	1732.6 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



Freq.	Note	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBd/dBi	dB	dBm/m	dB
35.82	S	-52.93	-34.59	-17.49	-0.84	-25	-27.93
111.48	S	-54.62	-49.61	-3.56	-1.46	-25	-29.62
213.33	S	-57.89	-59.84	4.00	-2.06	-25	-32.89
484.93	S	-62.25	-63.00	3.91	-3.17	-25	-37.25
659.53	S	-65.18	-66.17	4.70	-3.72	-25	-40.18
775.93	S	-59.61	-60.77	5.19	-4.03	-25	-34.61
3465.20	H	-53.99	-57.49	12.23	-8.73	-25	-28.99
5197.80	H	-52.97	-55.60	12.70	-10.07	-25	-27.97

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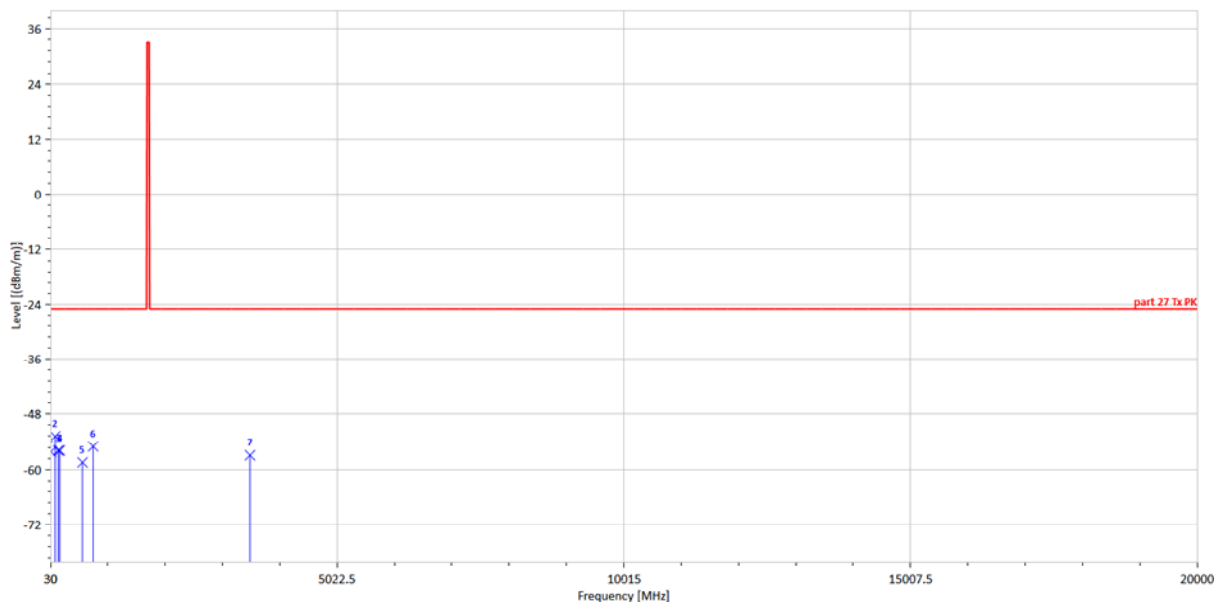
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Operation Mode :	WCDMA B4	Test Date :	2018/1/20
Fundamental Frequency :	1752.6 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP/EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBd/dBi	Loss dB	@3m dBm/m	dB
37.76	S	-56.16	-39.39	-15.92	-0.85	-25	-31.16
111.48	S	-52.80	-47.79	-3.56	-1.46	-25	-27.80
164.83	S	-55.90	-56.04	1.93	-1.80	-25	-30.90
191.99	S	-55.91	-58.03	4.07	-1.95	-25	-30.91
587.75	S	-58.48	-59.19	4.23	-3.52	-25	-33.48
773.02	S	-55.02	-56.19	5.19	-4.02	-25	-30.02
3505.20	H	-56.93	-60.47	12.30	-8.76	-25	-31.93

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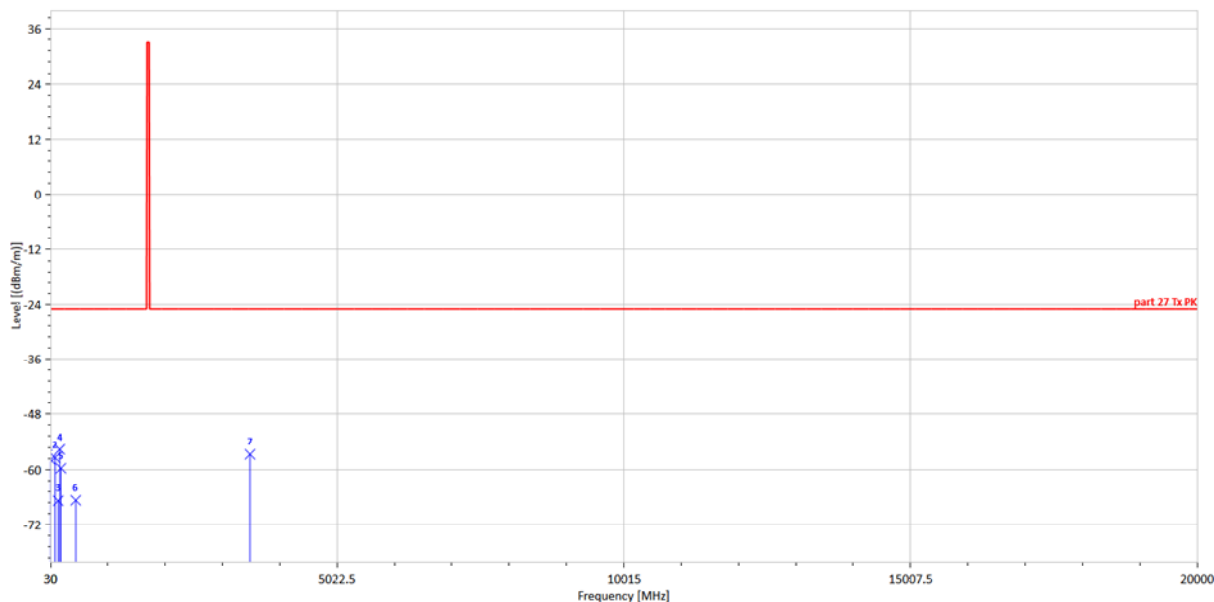
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Fundamental Frequency :	1752.6 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



Freq.	Note	ERP/EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBd/dBi	Loss dB	@3m dBm/m	dB
32.91	S	-57.90	-37.09	-19.97	-0.83	-25	-32.90
110.51	S	-57.45	-52.40	-3.59	-1.45	-25	-32.45
163.86	S	-66.82	-66.85	1.81	-1.79	-25	-41.82
191.99	S	-55.67	-57.79	4.07	-1.95	-25	-30.67
212.36	S	-59.72	-61.67	4.00	-2.05	-25	-34.72
470.38	S	-66.72	-67.40	3.79	-3.11	-25	-41.72
3505.20	H	-56.73	-60.26	12.30	-8.76	-25	-31.73

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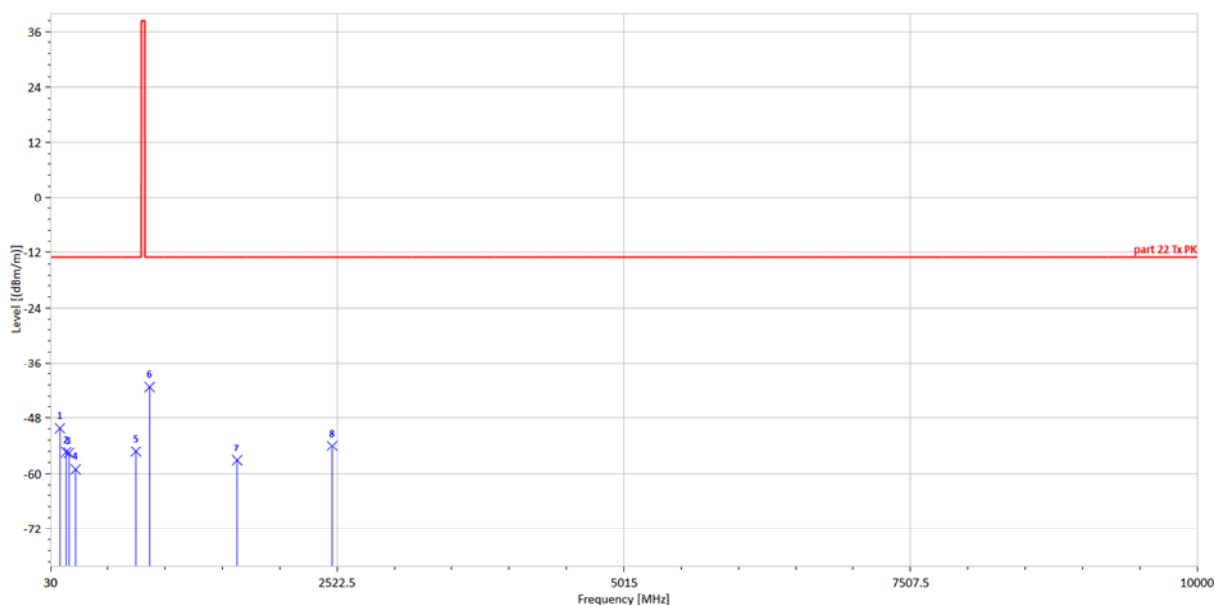
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Radiated Spurious Emission Measurement Result: WCDMA Band 5 Mode

Operation Mode :	WCDMA B5	Test Date :	2018/1/19
Fundamental Frequency :	826.4 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP/EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBd/dBi	Loss dB	@3m dBm/m	dB
112.45	S	-50.20	-45.22	-3.52	-1.46	-13	-37.20
166.77	S	-55.45	-55.81	2.17	-1.81	-13	-42.45
191.02	S	-55.62	-57.78	4.10	-1.95	-13	-42.62
248.25	S	-59.11	-59.75	2.88	-2.24	-13	-46.11
773.02	S	-55.27	-56.43	5.19	-4.02	-13	-42.27
892.33	S	-41.22	-42.04	5.21	-4.39	-13	-28.22
1652.80	H	-57.17	-57.31	6.59	-6.46	-13	-44.17
2479.20	H	-54.01	-54.73	8.53	-7.81	-13	-41.01

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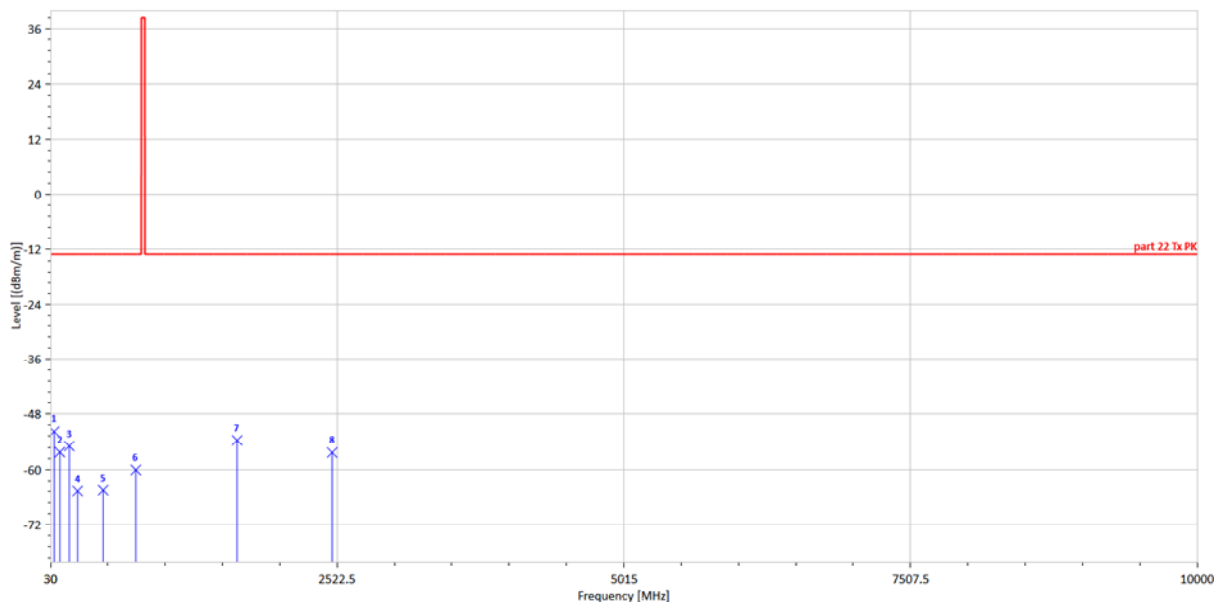
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Operation Mode :	WCDMA B5	Test Date :	2018/1/19
Fundamental Frequency :	826.4 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



Freq.	Note	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBd/dBi	dB	dBm/m	dB
62.01	S	-51.76	-47.76	-2.93	-1.07	-13	-38.76
111.48	S	-56.27	-51.25	-3.56	-1.46	-13	-43.27
192.96	S	-54.93	-57.01	4.03	-1.95	-13	-41.93
265.71	S	-64.75	-65.07	2.65	-2.32	-13	-51.75
487.84	S	-64.58	-65.34	3.94	-3.18	-13	-51.58
772.05	S	-60.09	-61.26	5.19	-4.02	-13	-47.09
1652.80	H	-53.66	-53.79	6.59	-6.46	-13	-40.66
2479.20	H	-56.35	-57.08	8.53	-7.81	-13	-43.35

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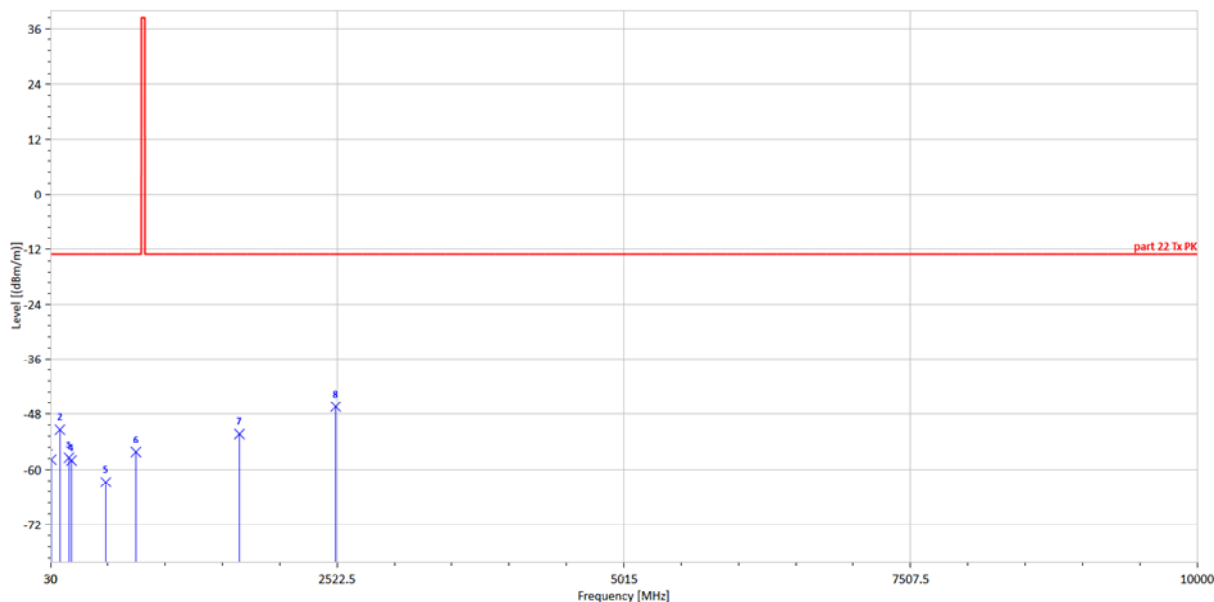
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Operation Mode :	WCDMA B5	Test Date :	2018/1/19
Fundamental Frequency :	836.6 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBd/dBi	dB	dBm/m	dB
36.79	S	-57.91	-40.36	-16.71	-0.85	-13	-44.91
112.45	S	-51.32	-46.33	-3.52	-1.46	-13	-38.32
191.02	S	-57.48	-59.64	4.10	-1.95	-13	-44.48
212.36	S	-58.08	-60.03	4.00	-2.05	-13	-45.08
511.12	S	-62.77	-63.53	4.02	-3.27	-13	-49.77
773.02	S	-56.28	-57.44	5.19	-4.02	-13	-43.28
1673.20	H	-52.24	-52.41	6.68	-6.50	-13	-39.24
2509.80	H	-46.39	-47.11	8.56	-7.84	-13	-33.39

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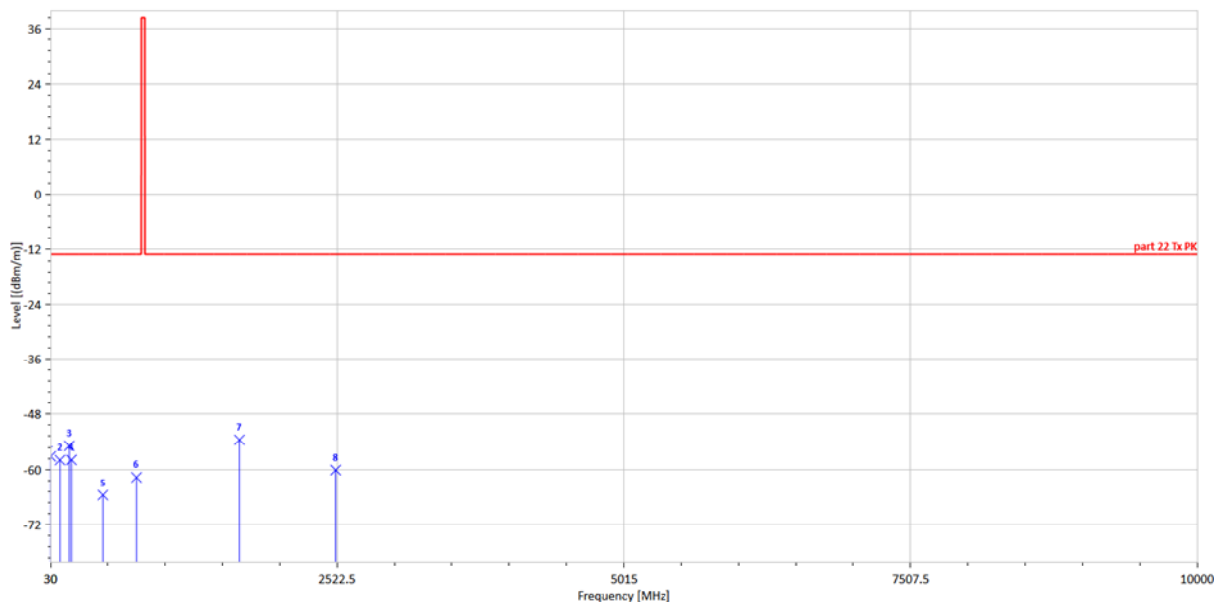
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Operation Mode :	WCDMA B5	Test Date :	2018/1/19
Fundamental Frequency :	836.6 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



Freq.	Note	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBd/dBi	dB	dBm/m	dB
31.94	S	-57.16	-35.51	-20.82	-0.83	-13	-44.16
112.45	S	-57.96	-52.98	-3.52	-1.46	-13	-44.96
192.96	S	-54.88	-56.96	4.03	-1.95	-13	-41.88
212.36	S	-57.93	-59.88	4.00	-2.05	-13	-44.93
485.90	S	-65.58	-66.32	3.92	-3.17	-13	-52.58
777.87	S	-61.71	-62.86	5.19	-4.04	-13	-48.71
1673.20	H	-53.56	-53.73	6.68	-6.50	-13	-40.56
2509.80	H	-60.12	-60.84	8.56	-7.84	-13	-47.12

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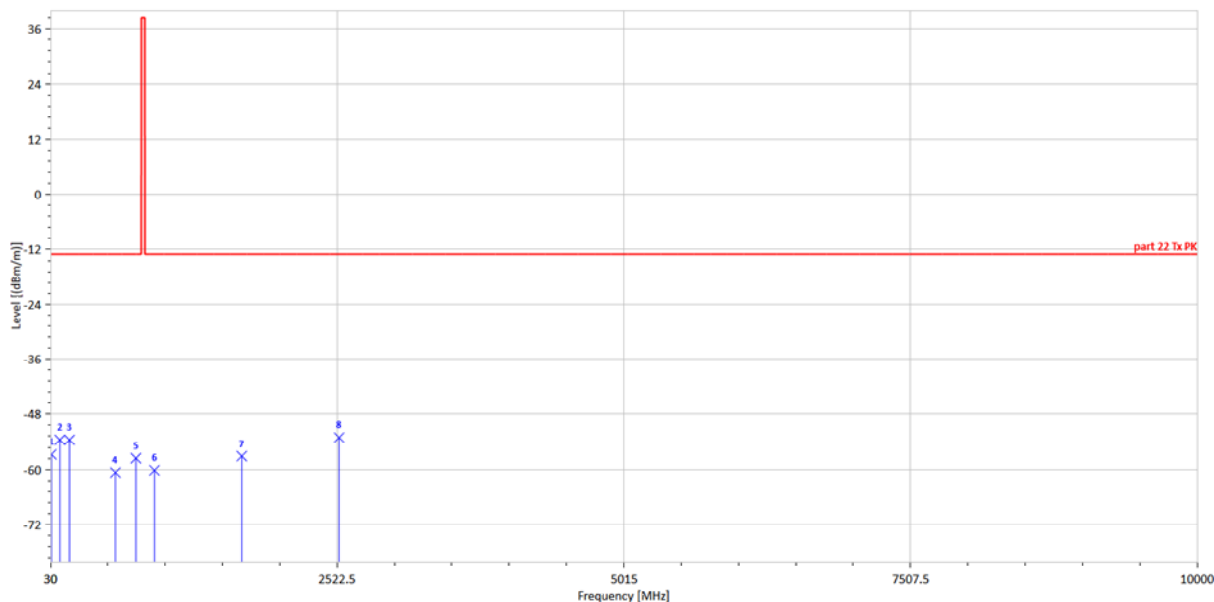
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Operation Mode :	WCDMA B5	Test Date :	2018/1/19
Fundamental Frequency :	846.6 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBd/dBi	dB	dBm/m	dB
37.76	S	-56.75	-39.98	-15.92	-0.85	-13	-43.75
111.48	S	-53.56	-48.54	-3.56	-1.46	-13	-40.56
194.90	S	-53.56	-55.56	3.96	-1.96	-13	-40.56
594.54	S	-60.65	-61.39	4.28	-3.55	-13	-47.65
773.02	S	-57.58	-58.75	5.19	-4.02	-13	-44.58
934.04	S	-60.18	-61.06	5.36	-4.48	-13	-47.18
1693.20	H	-57.13	-57.35	6.76	-6.55	-13	-44.13
2539.80	H	-53.05	-53.77	8.60	-7.87	-13	-40.05

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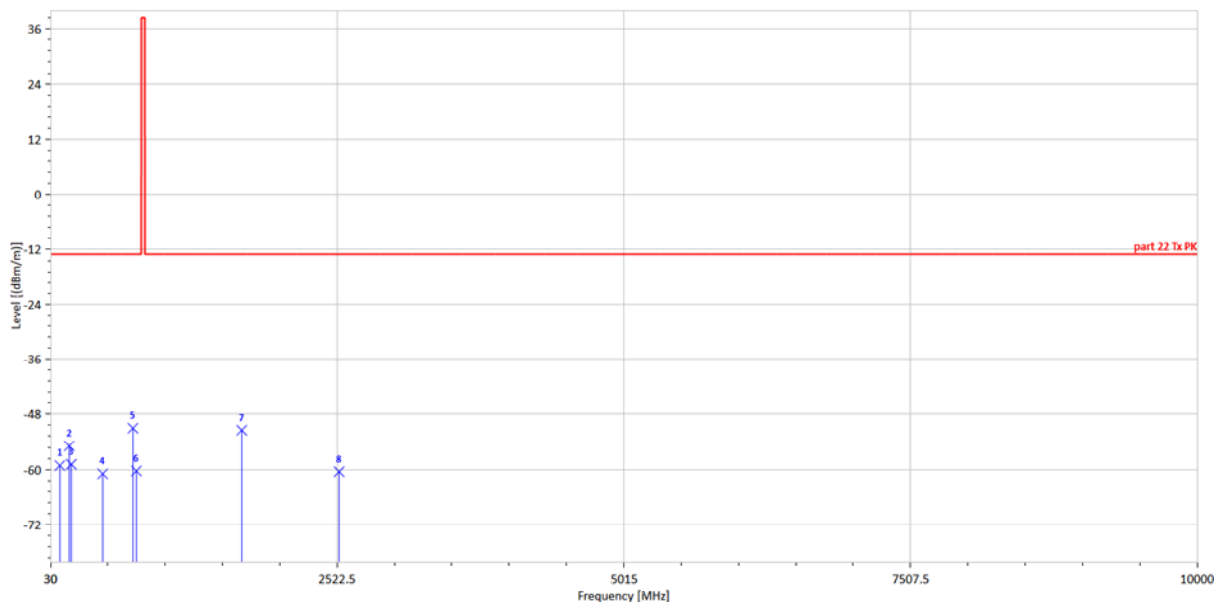
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Operation Mode :	WCDMA B5	Test Date :	2018/1/19
Fundamental Frequency :	846.6 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



Freq.	Note	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBd/dBi	dB	dBm/m	dB
111.48	S	-59.14	-54.12	-3.56	-1.46	-13	-46.14
192.96	S	-54.91	-56.98	4.03	-1.95	-13	-41.91
211.39	S	-58.88	-60.83	4.00	-2.05	-13	-45.88
483.96	S	-60.92	-61.66	3.91	-3.17	-13	-47.92
746.83	S	-51.03	-52.26	5.15	-3.93	-13	-38.03
776.90	S	-60.29	-61.44	5.19	-4.04	-13	-47.29
1693.20	H	-51.45	-51.67	6.76	-6.55	-13	-38.45
2539.80	H	-60.45	-61.17	8.60	-7.87	-13	-47.45

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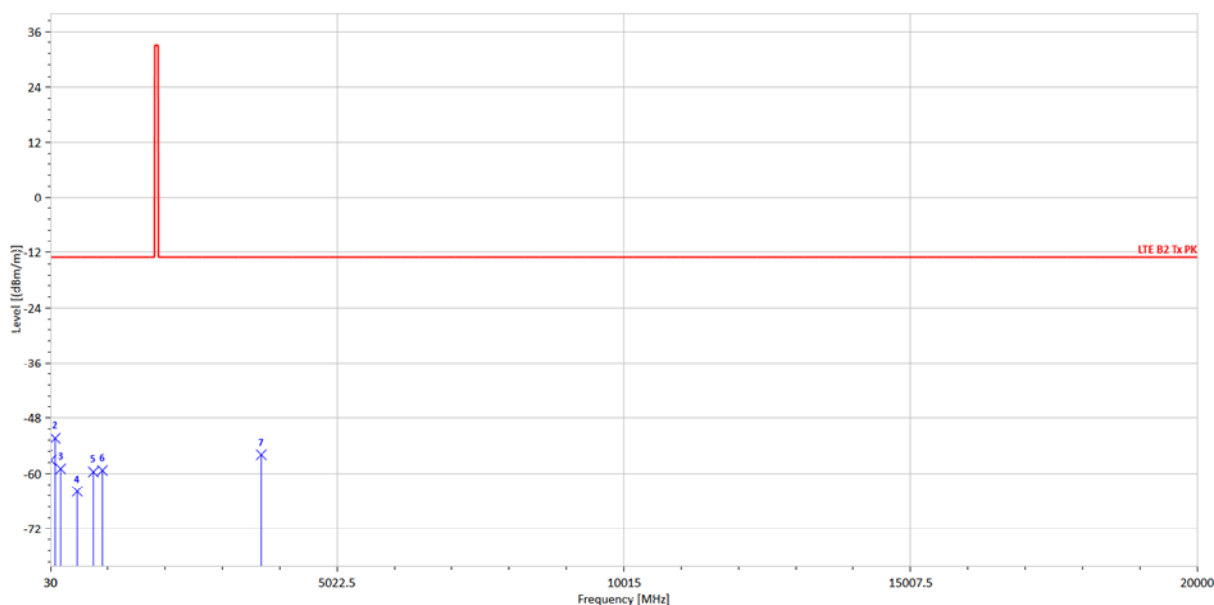
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Radiated Spurious Emission Measurement Result: LTE-Band 2

Operation Mode :	LTEB2 1.4M 16QAM 1.5	Test Date :	2018/1/20
Fundamental Frequency :	1850.7 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP/EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level	Gain	Loss	@3m	dB
37.76	S	-57.18	-42.43	-13.90	-0.85	-13	-44.18
111.48	S	-52.31	-49.25	-1.59	-1.46	-13	-39.31
207.51	S	-59.01	-62.96	5.97	-2.03	-13	-46.01
496.57	S	-63.93	-67.19	6.47	-3.22	-13	-50.93
776.90	S	-59.67	-63.38	7.74	-4.04	-13	-46.67
934.04	S	-59.35	-62.81	7.94	-4.48	-13	-46.35
3701.40	H	-56.00	-59.52	12.42	-8.90	-13	-43.00

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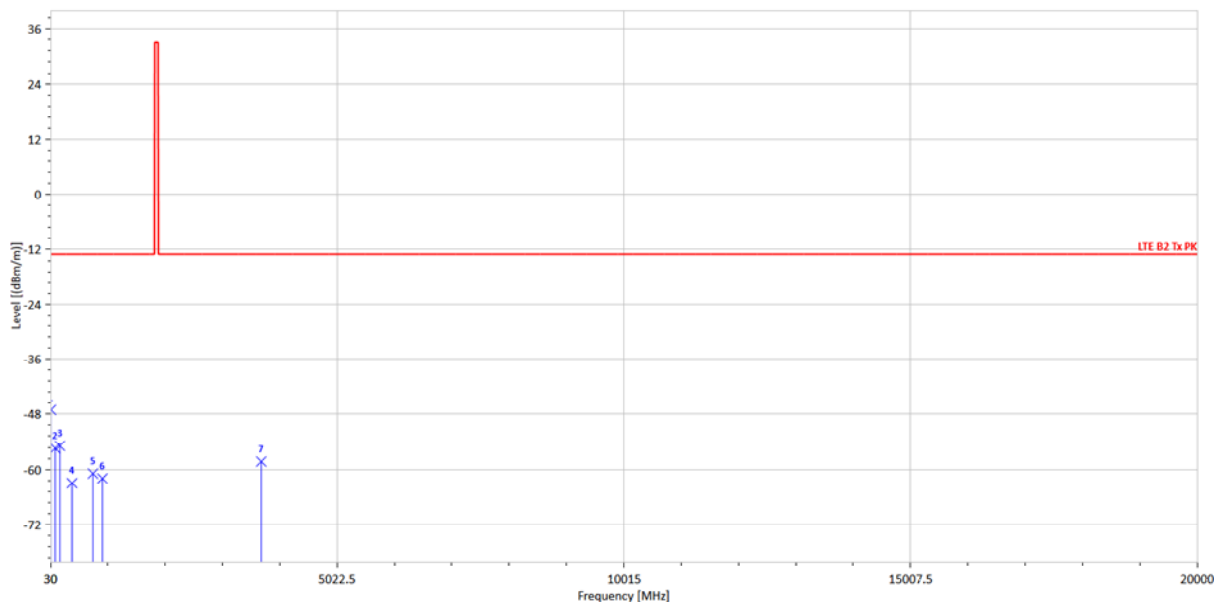
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Operation Mode :	LTEB2 1.4M 16QAM 1.5	Test Date :	2018/1/20
Fundamental Frequency :	1850.7 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



Freq.	Note	ERP/EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBd/dBi	Loss dB	@3m dBm/m	dB
38.73	S	-47.08	-33.17	-13.06	-0.85	-13	-34.08
111.48	S	-55.40	-52.34	-1.59	-1.46	-13	-42.40
192.96	S	-54.89	-58.77	5.84	-1.95	-13	-41.89
404.42	S	-62.98	-65.89	5.80	-2.89	-13	-49.98
769.14	S	-60.88	-64.61	7.73	-4.01	-13	-47.88
935.01	S	-61.94	-65.40	7.94	-4.49	-13	-48.94
3701.40	H	-58.29	-61.81	12.42	-8.90	-13	-45.29

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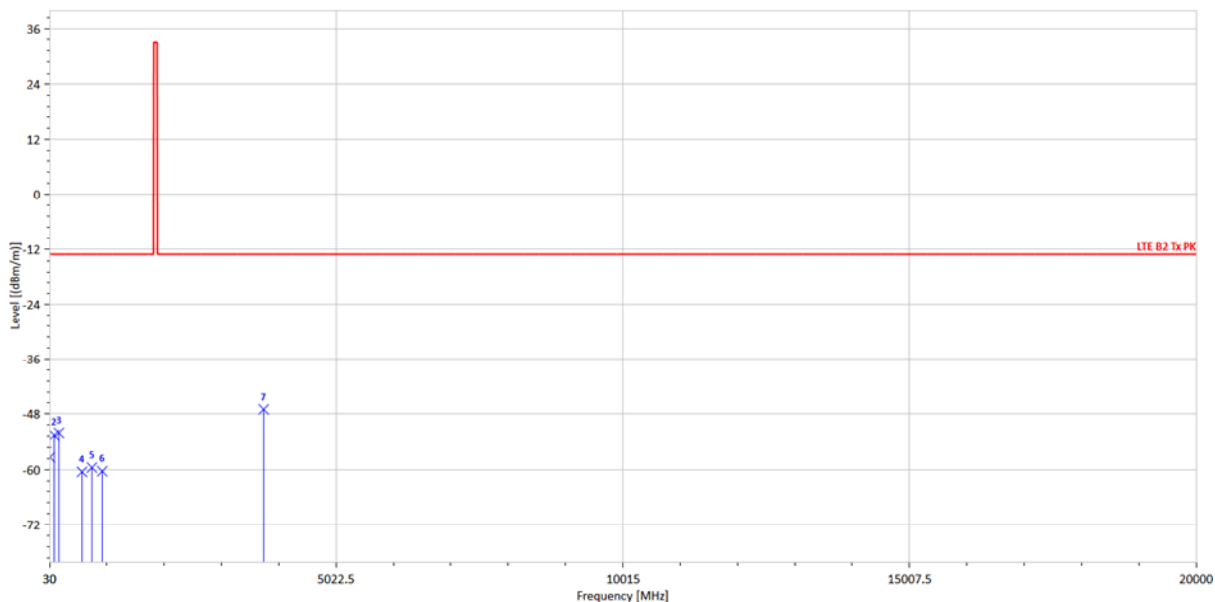
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Operation Mode :	LTEB2 1.4M 16QAM 1.5	Test Date :	2018/1/20
Fundamental Frequency :	1880 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
37.76	S	-57.38	-42.62	-13.90	-0.85	-13	-44.38
112.45	S	-52.49	-49.47	-1.55	-1.46	-13	-39.49
193.93	S	-52.02	-55.89	5.82	-1.96	-13	-39.02
596.48	S	-60.48	-63.87	6.94	-3.56	-13	-47.48
769.14	S	-59.56	-63.29	7.73	-4.01	-13	-46.56
949.56	S	-60.34	-63.78	7.96	-4.52	-13	-47.34
3760.00	H	-47.00	-50.51	12.46	-8.94	-13	-34.00

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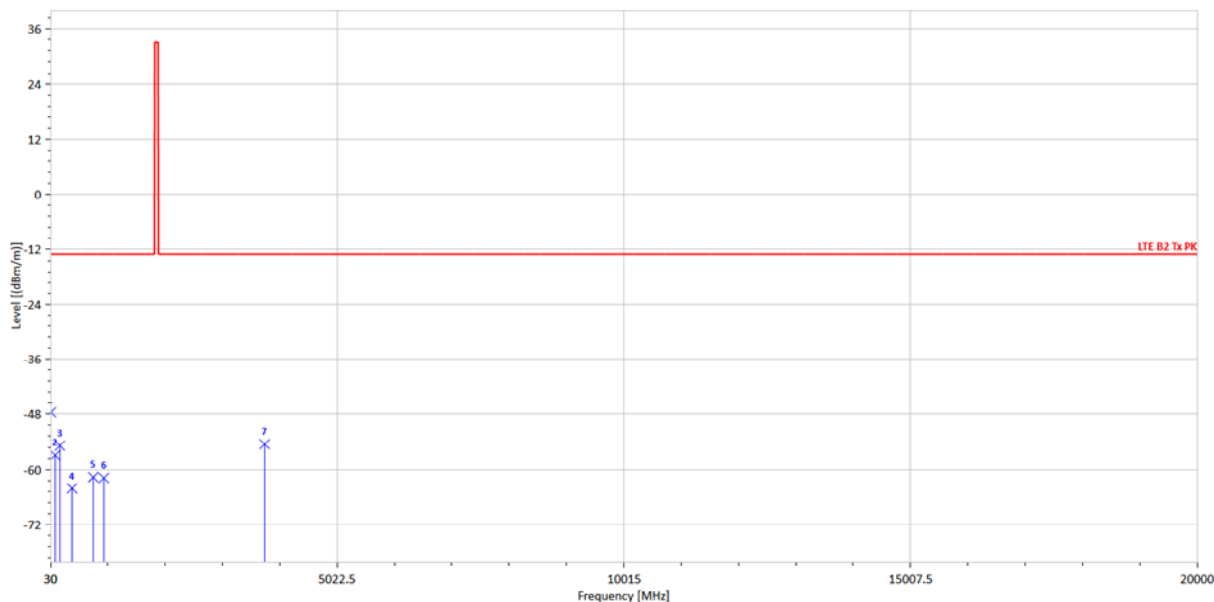
t (886-2) 2299-3279

f (886-2) 2298-0488

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Operation Mode :	LTEB2 1.4M 16QAM 1.5	Test Date :	2018/1/20
Fundamental Frequency :	1880 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



Freq.	Note	ERP/EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBd/dBi	Loss dB	@3m dBm/m	dB
37.76	S	-47.62	-32.87	-13.90	-0.85	-13	-34.62
111.48	S	-56.93	-53.87	-1.59	-1.46	-13	-43.93
192.96	S	-54.85	-58.74	5.84	-1.95	-13	-41.85
405.39	S	-64.13	-67.04	5.81	-2.90	-13	-51.13
774.96	S	-61.64	-65.35	7.74	-4.03	-13	-48.64
958.29	S	-61.82	-65.27	7.99	-4.54	-13	-48.82
3760.00	H	-54.51	-58.03	12.46	-8.94	-13	-41.51

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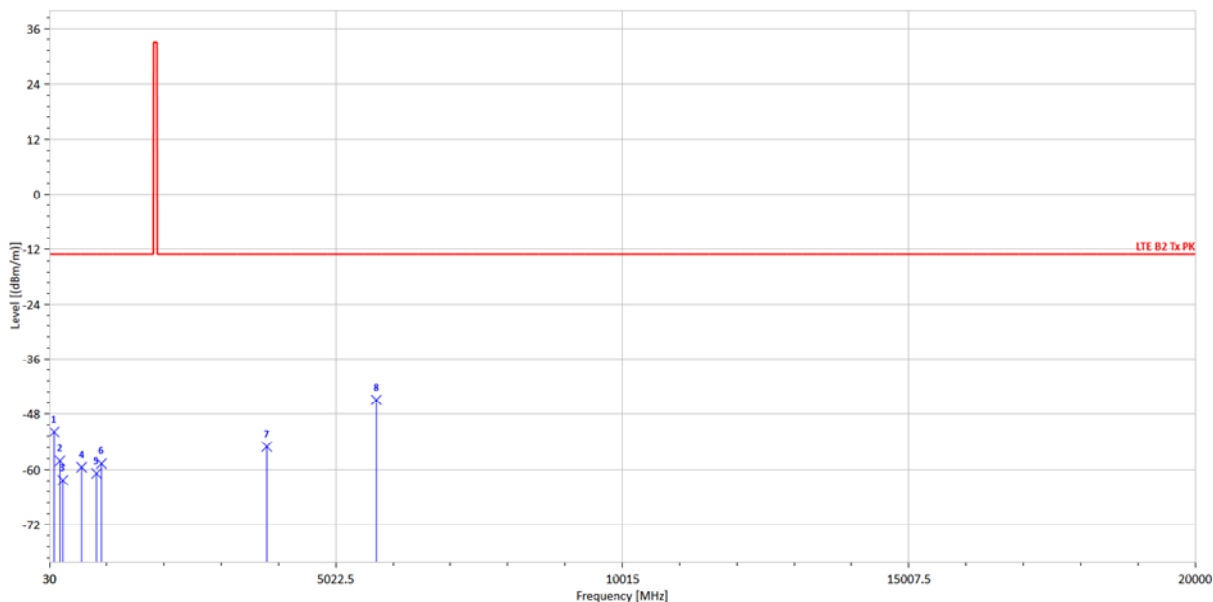
t (886-2) 2299-3279

f (886-2) 2298-0488

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Operation Mode :	LTEB2 1.4M 16QAM 1.5	Test Date :	2018/1/20
Fundamental Frequency :	1909.3 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
111.48	S	-51.81	-48.75	-1.59	-1.46	-13	-38.81
213.33	S	-58.15	-62.24	6.16	-2.06	-13	-45.15
263.77	S	-62.31	-64.82	4.82	-2.32	-13	-49.31
590.66	S	-59.51	-62.87	6.89	-3.53	-13	-46.51
850.62	S	-60.85	-64.38	7.80	-4.27	-13	-47.85
936.95	S	-58.73	-62.19	7.95	-4.49	-13	-45.73
3818.60	H	-55.08	-58.59	12.49	-8.98	-13	-42.08
5727.90	H	-44.89	-47.46	13.05	-10.48	-13	-31.89

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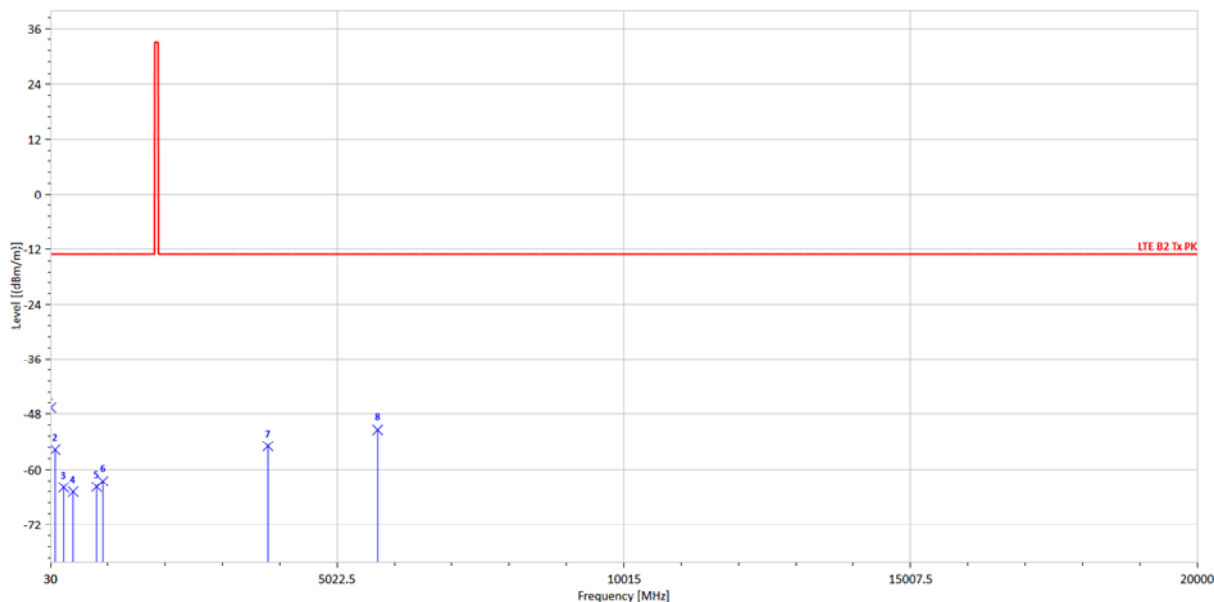
t (886-2) 2299-3279

f (886-2) 2298-0488

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Operation Mode :	LTEB2 1.4M 16QAM 1.5	Test Date :	2018/1/20
Fundamental Frequency :	1909.3 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



Freq.	Note	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBd/dBi	dB	dBm/m	dB
37.76	S	-46.65	-31.90	-13.90	-0.85	-13	-33.65
111.48	S	-55.76	-52.70	-1.59	-1.46	-13	-42.76
259.89	S	-63.93	-66.14	4.52	-2.30	-13	-50.93
423.82	S	-64.86	-67.89	6.00	-2.96	-13	-51.86
833.16	S	-63.77	-67.34	7.79	-4.21	-13	-50.77
943.74	S	-62.55	-65.99	7.96	-4.51	-13	-49.55
3818.60	H	-54.95	-58.46	12.49	-8.98	-13	-41.95
5727.90	H	-51.38	-53.95	13.05	-10.48	-13	-38.38

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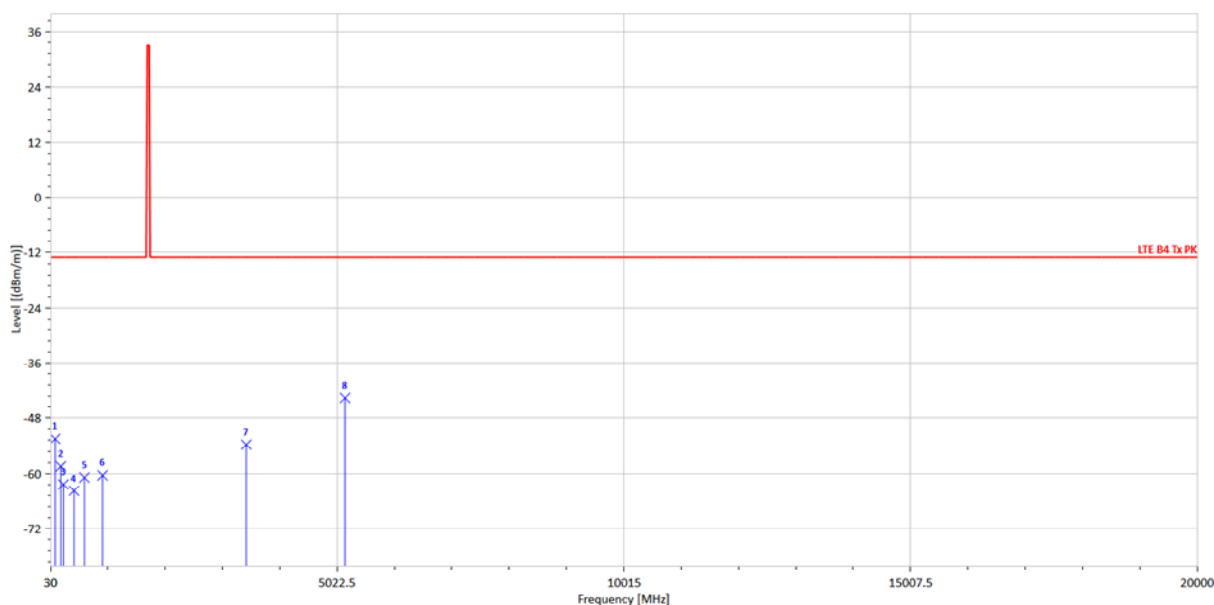
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Radiated Spurious Emission Measurement Result: LTE-Band 4

Operation Mode :	LTEB4 20M 16QAM 1.0	Test Date :	2018/1/20
Fundamental Frequency :	1720 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP/EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level	Gain	Loss	@3m	dB
111.48	S	-52.43	-49.37	-1.59	-1.46	-13	-39.43
209.45	S	-58.46	-62.45	6.04	-2.04	-13	-45.46
255.04	S	-62.35	-64.91	4.84	-2.28	-13	-49.35
439.34	S	-63.78	-66.93	6.16	-3.01	-13	-50.78
620.73	S	-60.87	-64.29	7.05	-3.63	-13	-47.87
936.95	S	-60.40	-63.86	7.95	-4.49	-13	-47.40
3440.00	H	-53.72	-52.92	12.18	-12.98	-13	-40.72
5160.00	H	-43.53	-41.30	12.66	-14.89	-13	-30.53

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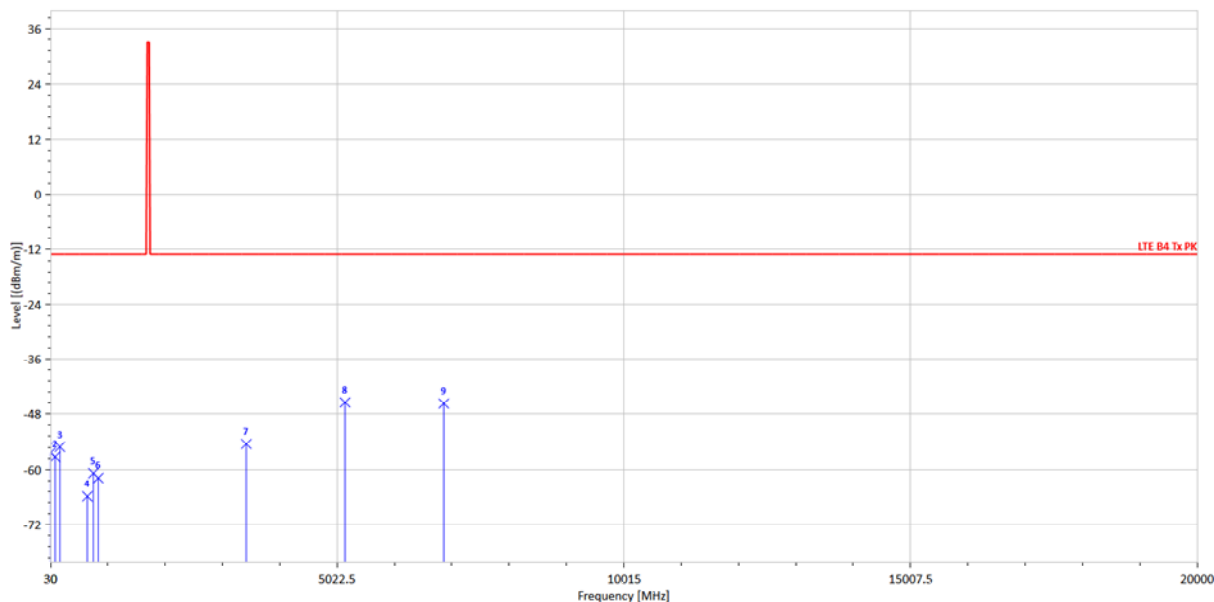
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Operation Mode :	LTEB4 20M 16QAM 1.0	Test Date :	2018/1/20
Fundamental Frequency :	1720 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



Freq.	Note	ERP/EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBd/dBi	Loss dB	@3m dBm/m	dB
32.91	S	-56.40	-37.57	-18.00	-0.83	-13	-43.40
111.48	S	-57.28	-54.22	-1.59	-1.46	-13	-44.28
192.96	S	-55.11	-59.00	5.84	-1.95	-13	-42.11
672.14	S	-65.88	-69.55	7.41	-3.75	-13	-52.88
776.90	S	-60.80	-64.51	7.74	-4.04	-13	-47.80
863.23	S	-61.83	-65.33	7.82	-4.32	-13	-48.83
3440.00	H	-54.46	-53.66	12.18	-12.98	-13	-41.46
5160.00	H	-45.43	-43.20	12.66	-14.89	-13	-32.43
6880.00	H	-45.68	-42.15	12.07	-15.60	-13	-32.68

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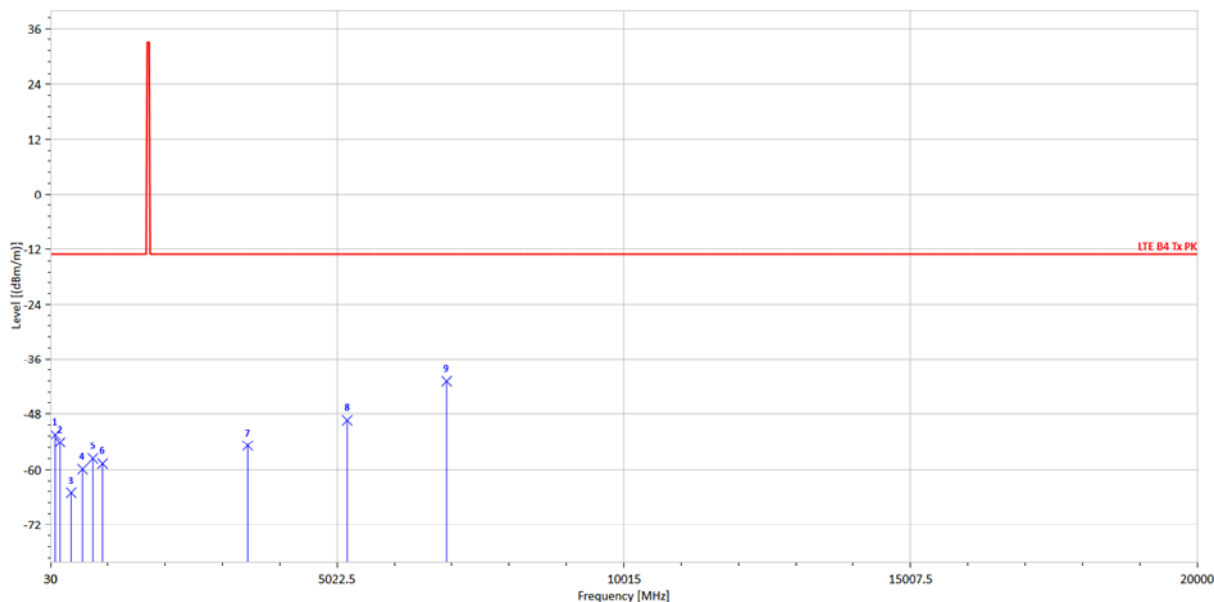
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Operation Mode :	LTEB4 20M 16QAM 1.0	Test Date :	2018/1/20
Fundamental Frequency :	1732.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP/EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBd/dBi	Loss dB	@3m dBm/m	dB
111.48	S	-52.44	-49.39	-1.59	-1.46	-13	-39.44
194.90	S	-54.11	-57.96	5.81	-1.96	-13	-41.11
390.84	S	-65.12	-68.08	5.80	-2.83	-13	-52.12
588.72	S	-59.91	-63.26	6.87	-3.52	-13	-46.91
769.14	S	-57.64	-61.36	7.73	-4.01	-13	-44.64
936.95	S	-58.74	-62.20	7.95	-4.49	-13	-45.74
3465.00	H	-54.83	-54.03	12.23	-13.03	-13	-41.83
5197.50	H	-49.35	-47.14	12.70	-14.91	-13	-36.35
6930.00	H	-40.83	-37.25	12.04	-15.62	-13	-27.83

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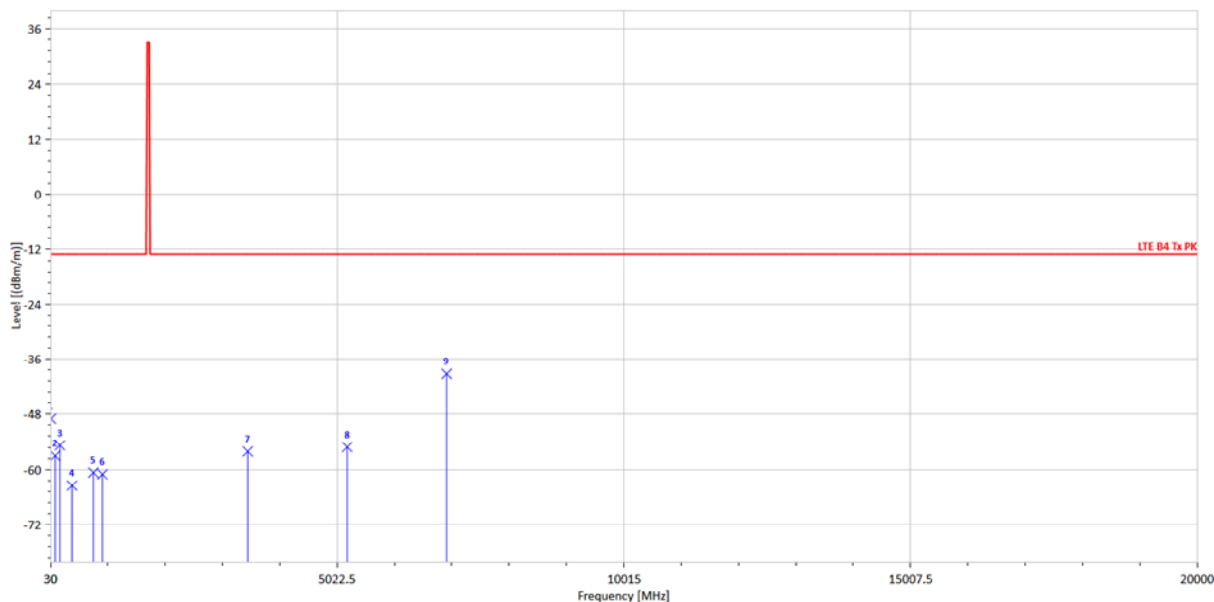
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Operation Mode :	LTEB4 20M 16QAM 1.0	Test Date :	2018/1/20
Fundamental Frequency :	1732.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



Freq.	Note	ERP/EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBd/dBi	Loss dB	@3m dBm/m	dB
37.76	S	-48.99	-34.24	-13.90	-0.85	-13	-35.99
111.48	S	-57.05	-54.00	-1.59	-1.46	-13	-44.05
192.96	S	-54.76	-58.64	5.84	-1.95	-13	-41.76
405.39	S	-63.51	-66.42	5.81	-2.90	-13	-50.51
776.90	S	-60.65	-64.36	7.74	-4.04	-13	-47.65
935.01	S	-61.02	-64.48	7.94	-4.49	-13	-48.02
3465.00	H	-56.11	-55.31	12.23	-13.03	-13	-43.11
5197.50	H	-55.14	-52.93	12.70	-14.91	-13	-42.14
6930.00	H	-39.25	-35.67	12.04	-15.62	-13	-26.25

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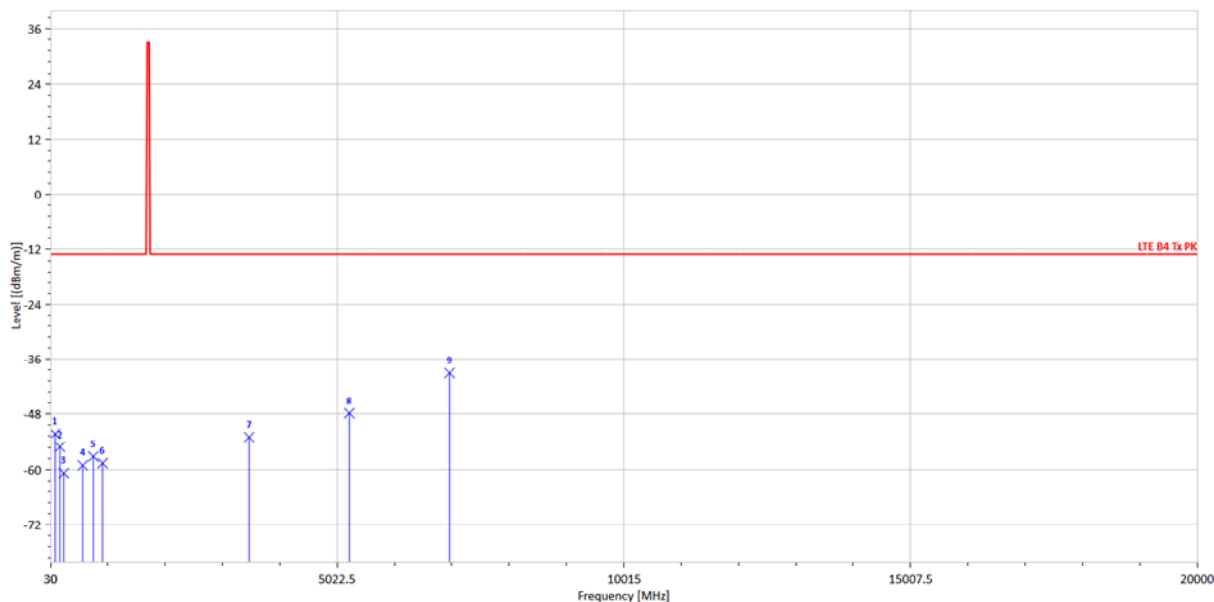
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Operation Mode :	LTEB4 20M 16QAM 1.0	Test Date :	2018/1/20
Fundamental Frequency :	1745 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP/EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBd/dBi	Loss dB	@3m dBm/m	dB
112.45	S	-52.25	-49.24	-1.55	-1.46	-13	-39.25
193.93	S	-55.10	-58.96	5.82	-1.96	-13	-42.10
261.83	S	-60.78	-63.13	4.66	-2.31	-13	-47.78
590.66	S	-59.10	-62.46	6.89	-3.53	-13	-46.10
775.93	S	-57.21	-60.92	7.74	-4.03	-13	-44.21
936.95	S	-58.65	-62.11	7.95	-4.49	-13	-45.65
3490.00	H	-52.96	-52.15	12.28	-13.09	-13	-39.96
5235.00	H	-47.80	-45.61	12.73	-14.93	-13	-34.80
6980.00	H	-39.05	-35.42	12.01	-15.64	-13	-26.05

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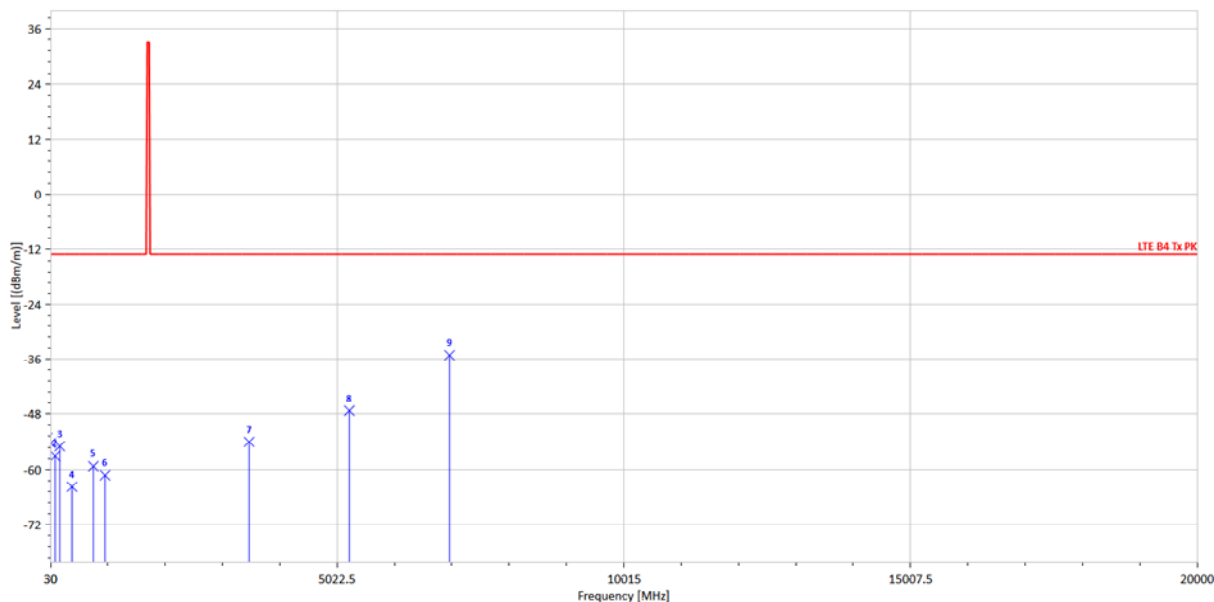
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Operation Mode :	LTEB4 20M 16QAM 1.0	Test Date :	2018/1/20
Fundamental Frequency :	1745 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



Freq.	Note	ERP/EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBd/dBi	Loss dB	@3m dBm/m	dB
34.85	S	-54.29	-37.02	-16.43	-0.84	-13	-41.29
111.48	S	-57.10	-54.05	-1.59	-1.46	-13	-44.10
191.99	S	-54.98	-58.88	5.85	-1.95	-13	-41.98
404.42	S	-63.78	-66.68	5.80	-2.89	-13	-50.78
776.90	S	-59.30	-63.01	7.74	-4.04	-13	-46.30
980.60	S	-61.23	-64.68	8.05	-4.60	-13	-48.23
3490.00	H	-54.00	-53.19	12.28	-13.09	-13	-41.00
5235.00	H	-47.27	-45.08	12.73	-14.93	-13	-34.27
6980.00	H	-35.13	-31.50	12.01	-15.64	-13	-22.13

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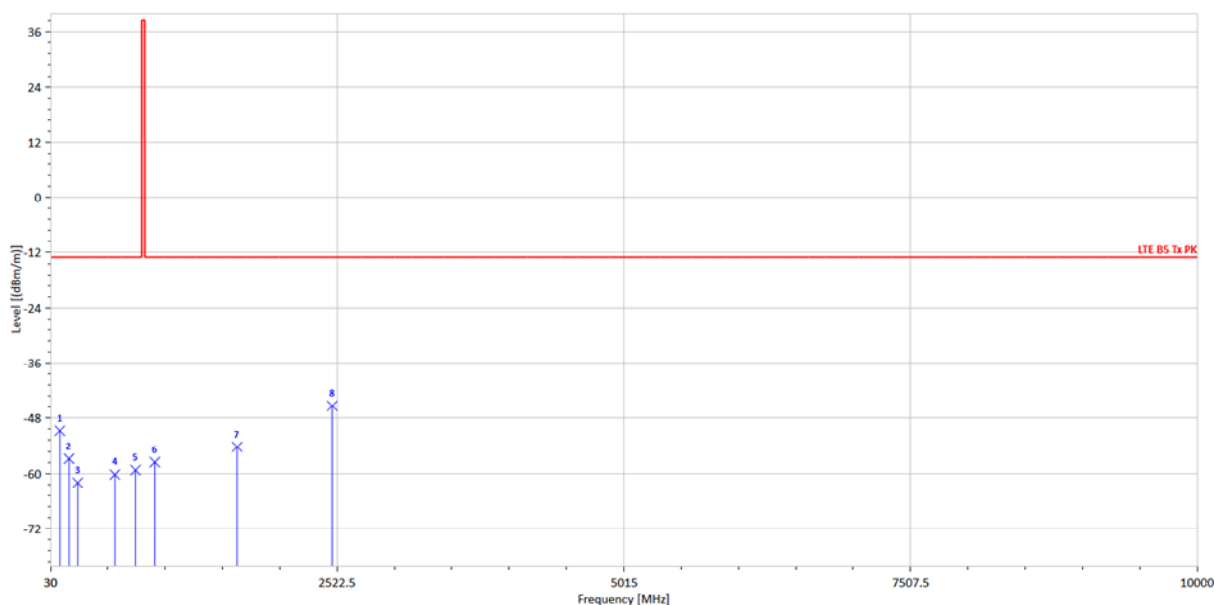
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Radiated Spurious Emission Measurement Result: LTE-Band 5

Operation Mode :	LTEB5 5M 16QAM 1.0	Test Date :	2018/1/19
Fundamental Frequency :	826.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP/EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBd/dBi	Loss dB	@3m dBm/m	dB
111.48	S	-50.71	-45.69	-3.56	-1.46	-13	-37.71
191.02	S	-56.81	-58.97	4.10	-1.95	-13	-43.81
266.68	S	-62.00	-62.42	2.75	-2.33	-13	-49.00
589.69	S	-60.23	-60.95	4.25	-3.53	-13	-47.23
769.14	S	-59.27	-60.44	5.18	-4.01	-13	-46.27
936.95	S	-57.56	-58.43	5.37	-4.49	-13	-44.56
1653.00	H	-54.22	-53.12	6.59	-7.70	-13	-41.22
2479.50	H	-45.31	-43.42	8.53	-10.42	-13	-32.31

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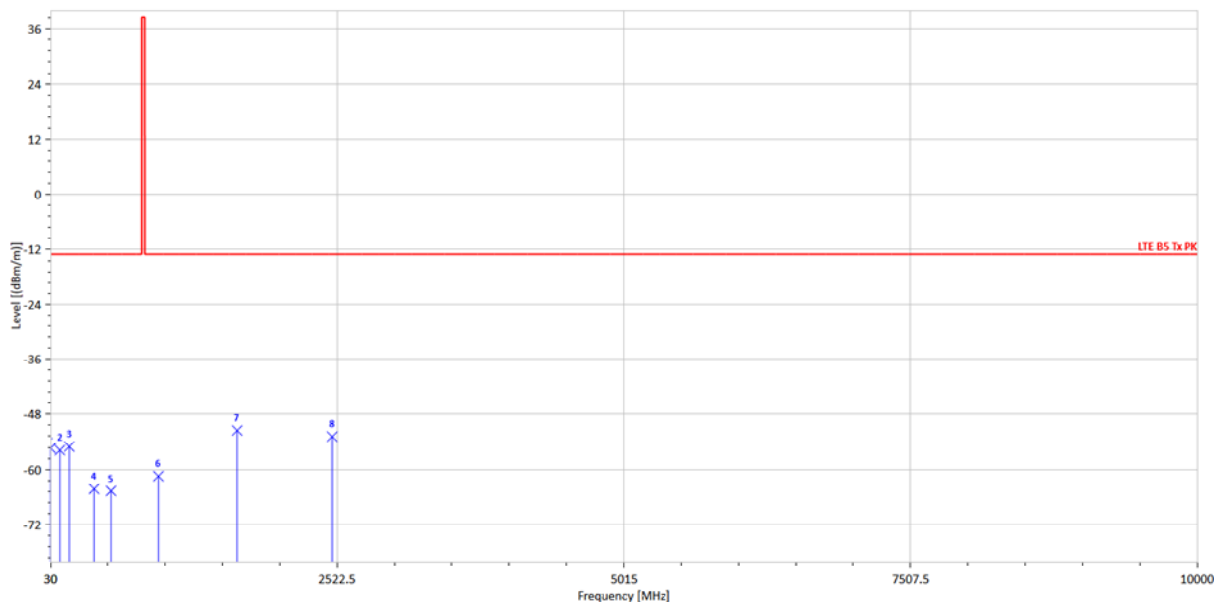
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Operation Mode :	LTEB5 5M 16QAM 1.0	Test Date :	2018/1/19
Fundamental Frequency :	826.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



Freq.	Note	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBd/dBi	dB	dBm/m	dB
30.97	S	-55.39	-32.91	-21.66	-0.82	-13	-42.39
111.48	S	-55.82	-50.80	-3.56	-1.46	-13	-42.82
192.96	S	-55.05	-57.13	4.03	-1.95	-13	-42.05
409.27	S	-64.26	-64.62	3.28	-2.92	-13	-51.26
556.71	S	-64.69	-65.28	4.02	-3.42	-13	-51.69
968.96	S	-61.43	-62.32	5.47	-4.58	-13	-48.43
1653.00	H	-51.51	-50.41	6.59	-7.70	-13	-38.51
2479.50	H	-52.84	-50.95	8.53	-10.42	-13	-39.84

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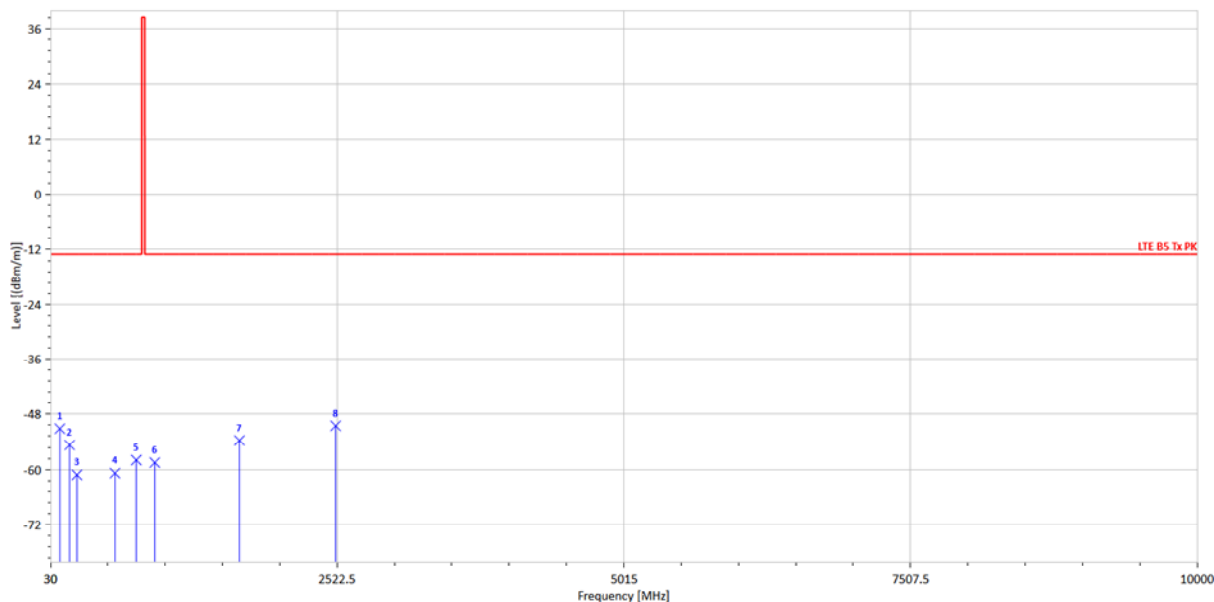
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Operation Mode :	LTEB5 5M 16QAM 1.0	Test Date :	2018/1/19
Fundamental Frequency :	836.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBd/dBi	dB	dBm/m	dB
111.48	S	-51.13	-46.11	-3.56	-1.46	-13	-38.13
195.87	S	-54.69	-56.65	3.93	-1.97	-13	-41.69
259.89	S	-61.13	-60.90	2.07	-2.30	-13	-48.13
590.66	S	-60.77	-61.49	4.25	-3.53	-13	-47.77
775.93	S	-57.96	-59.12	5.19	-4.03	-13	-44.96
936.95	S	-58.49	-59.36	5.37	-4.49	-13	-45.49
1673.00	H	-53.69	-52.60	6.68	-7.77	-13	-40.69
2509.50	H	-50.51	-48.56	8.56	-10.51	-13	-37.51

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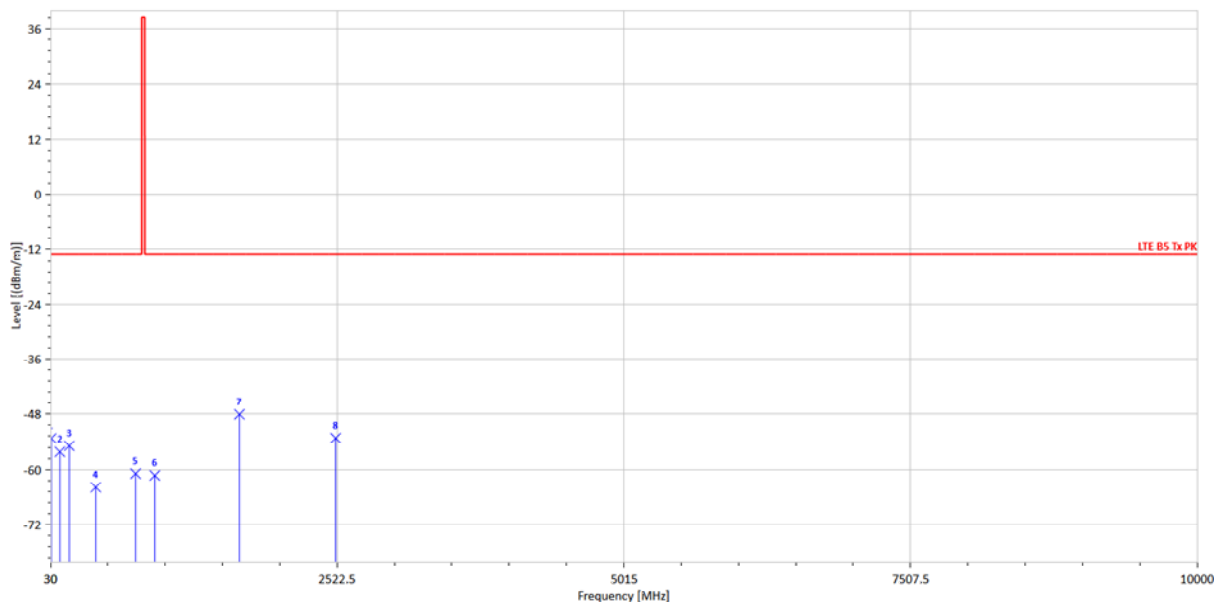
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Operation Mode :	LTEB5 5M 16QAM 1.0	Test Date :	2018/1/19
Fundamental Frequency :	836.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



Freq.	Note	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBd/dBi	dB	dBm/m	dB
36.79	S	-53.22	-35.67	-16.71	-0.85	-13	-40.22
111.48	S	-56.19	-51.17	-3.56	-1.46	-13	-43.19
192.96	S	-54.89	-56.96	4.03	-1.95	-13	-41.89
423.82	S	-63.89	-64.33	3.40	-2.96	-13	-50.89
770.11	S	-60.89	-62.06	5.18	-4.01	-13	-47.89
936.95	S	-61.28	-62.15	5.37	-4.49	-13	-48.28
1673.00	H	-48.04	-46.94	6.68	-7.77	-13	-35.04
2509.50	H	-53.17	-51.22	8.56	-10.51	-13	-40.17

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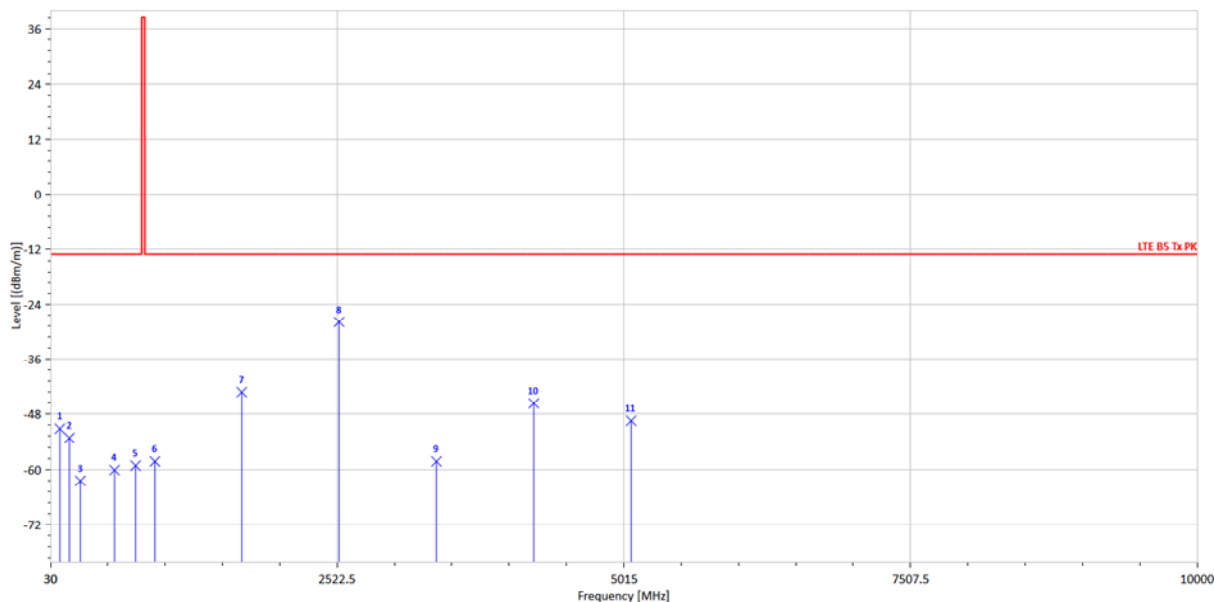
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Operation Mode :	LTEB5 5M 16QAM 1.0	Test Date :	2018/1/19
Fundamental Frequency :	846.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP/EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBd/dBi	Loss dB	@3m dBm/m	dB
111.48	S	-51.14	-46.12	-3.56	-1.46	-13	-38.14
193.93	S	-53.13	-55.17	4.00	-1.96	-13	-40.13
289.96	S	-62.47	-63.46	3.41	-2.42	-13	-49.47
586.78	S	-60.13	-60.84	4.23	-3.52	-13	-47.13
770.11	S	-59.17	-60.34	5.18	-4.01	-13	-46.17
937.92	S	-58.27	-59.14	5.37	-4.49	-13	-45.27
1693.00	H	-43.16	-42.08	6.76	-7.84	-13	-30.16
2539.50	H	-27.93	-25.93	8.60	-10.59	-13	-14.93
3386.00	H	-58.26	-55.32	9.92	-12.86	-13	-45.26
4232.50	H	-45.63	-41.87	10.45	-14.21	-13	-32.63
5079.00	H	-49.42	-45.00	10.43	-14.85	-13	-36.42

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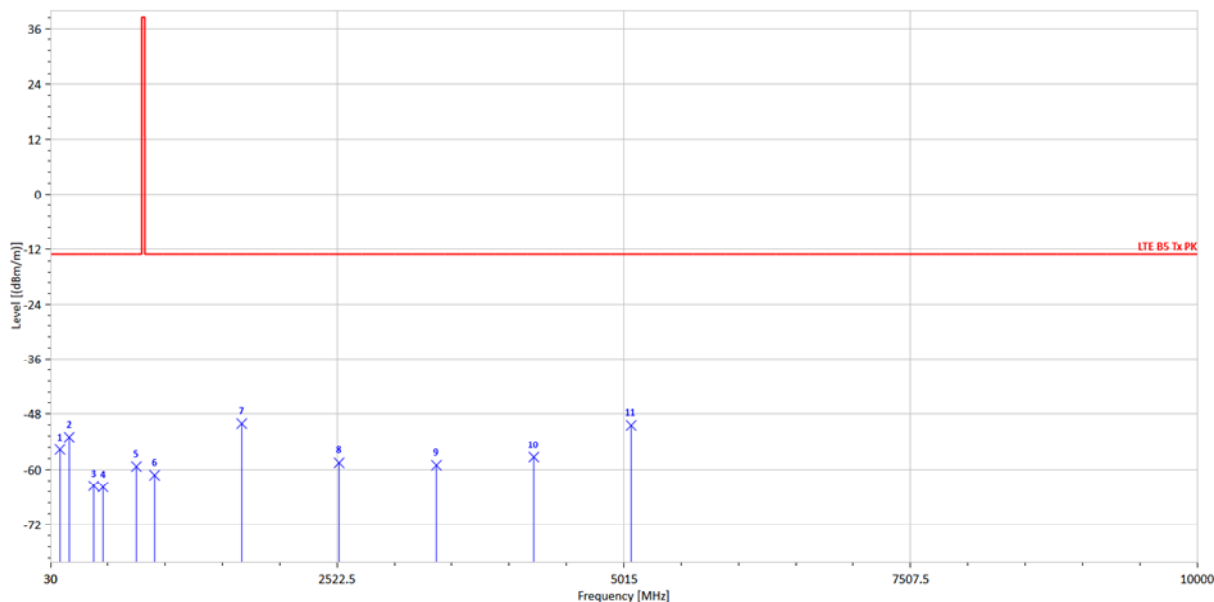
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Operation Mode :	LTEB5 5M 16QAM 1.0	Test Date :	2018/1/19
Fundamental Frequency :	846.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



Freq.	Note	ERP/EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBd/dBi	Loss dB	@3m dBm/m	dB
112.45	S	-55.71	-50.72	-3.52	-1.46	-13	-42.71
192.96	S	-52.95	-55.03	4.03	-1.95	-13	-39.95
405.39	S	-63.57	-63.92	3.25	-2.90	-13	-50.57
486.87	S	-63.86	-64.62	3.93	-3.18	-13	-50.86
776.90	S	-59.37	-60.52	5.19	-4.04	-13	-46.37
935.01	S	-61.23	-62.11	5.36	-4.49	-13	-48.23
1693.00	H	-50.03	-48.94	6.76	-7.84	-13	-37.03
2539.50	H	-58.57	-56.57	8.60	-10.59	-13	-45.57
3386.00	H	-59.09	-56.15	9.92	-12.86	-13	-46.09
4232.50	H	-57.34	-53.58	10.45	-14.21	-13	-44.34
5079.00	H	-50.42	-46.01	10.43	-14.85	-13	-37.42

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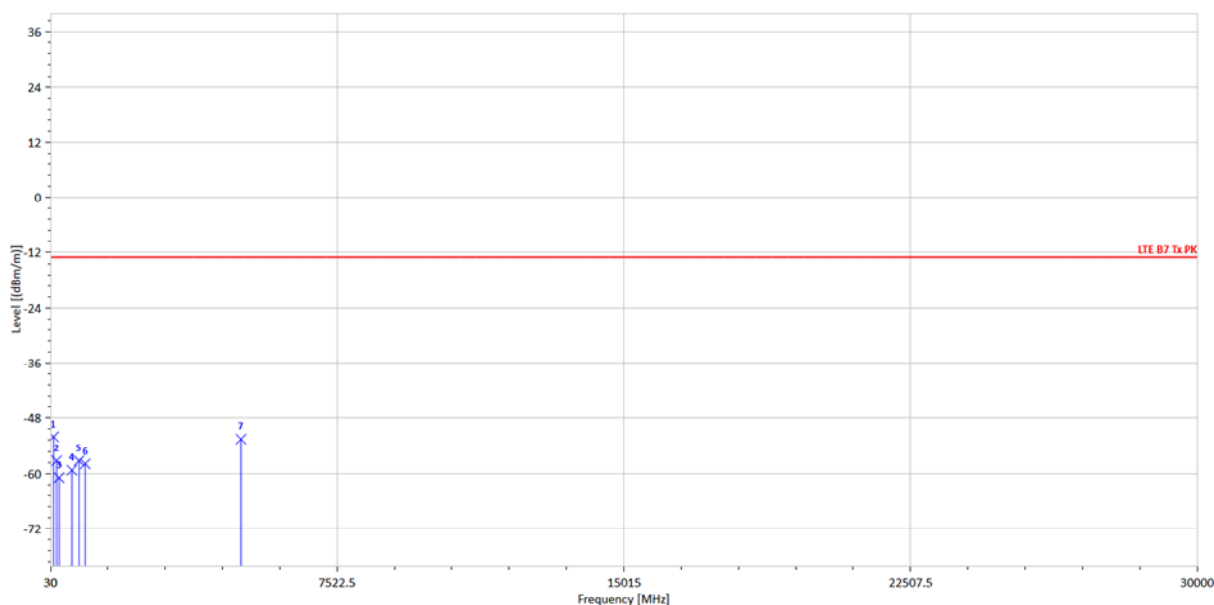
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Radiated Spurious Emission Measurement Result: LTE-Band 7

Operation Mode :	LTEB7 10M 16QAM 1.49	Test Date :	2018/1/20
Fundamental Frequency :	2505 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP/EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level	Gain	Loss	@3m	dB
			dBm	dBd/dBi	dB	dBm/m	
111.48	S	-52.03	-48.97	-1.59	-1.46	-25	-27.03
190.05	S	-57.24	-61.18	5.88	-1.94	-25	-32.24
255.04	S	-60.89	-63.45	4.84	-2.28	-25	-35.89
588.72	S	-59.28	-62.63	6.87	-3.52	-25	-34.28
776.90	S	-57.27	-60.98	7.74	-4.04	-25	-32.27
936.95	S	-57.92	-61.37	7.95	-4.49	-25	-32.92
5010.00	H	-52.51	-55.09	12.51	-9.93	-25	-27.51

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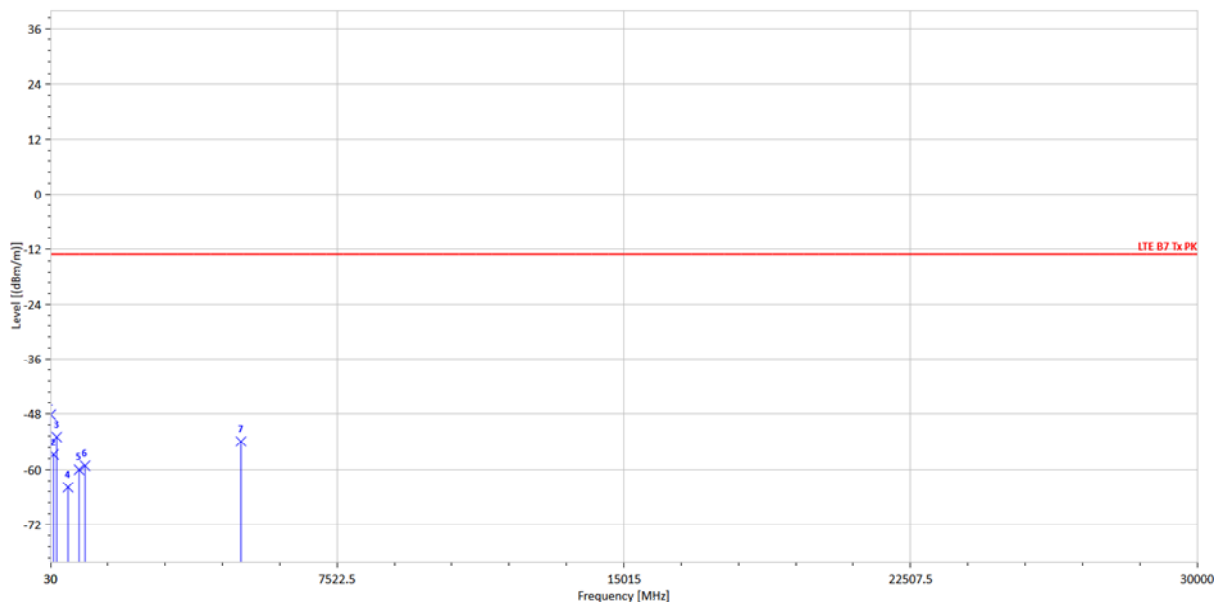
t (886-2) 2299-3279

f (886-2) 2298-0488

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Operation Mode :	LTEB7 10M 16QAM 1.49	Test Date :	2018/1/20
Fundamental Frequency :	2505 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



Freq.	Note	ERP/EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBd/dBi	Loss dB	@3m dBm/m	dB
37.76	S	-48.14	-33.39	-13.90	-0.85	-25	-23.14
111.48	S	-56.77	-53.72	-1.59	-1.46	-25	-31.77
192.96	S	-52.92	-56.80	5.84	-1.95	-25	-27.92
489.78	S	-63.91	-67.17	6.45	-3.19	-13.01	-50.90
776.90	S	-60.04	-63.74	7.74	-4.04	-25	-35.04
935.01	S	-59.17	-62.62	7.94	-4.49	-25	-34.17
5010.00	H	-53.91	-56.49	12.51	-9.93	-25	-28.91

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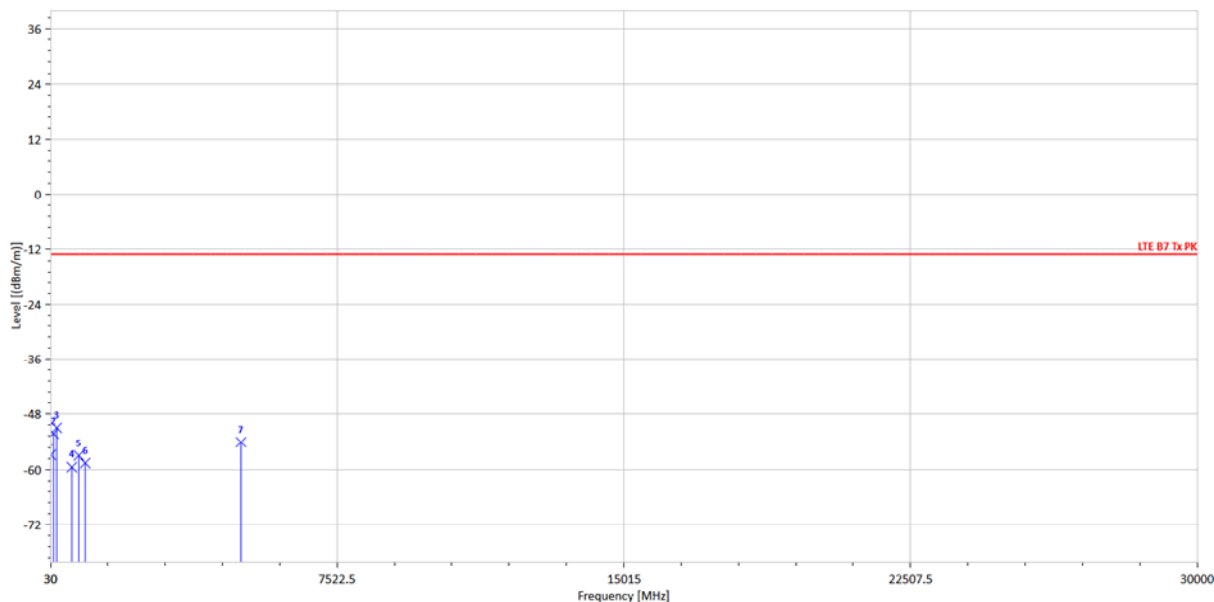
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Operation Mode :	LTEB7 10M 16QAM 1.49	Test Date :	2018/1/20
Fundamental Frequency :	2535 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP/EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBd/dBi	Loss dB	@3m dBm/m	dB
37.76	S	-56.83	-42.08	-13.90	-0.85	-25	-31.83
111.48	S	-52.20	-49.15	-1.59	-1.46	-25	-27.20
192.96	S	-50.95	-54.83	5.84	-1.95	-25	-25.95
587.75	S	-59.49	-62.83	6.86	-3.52	-25	-34.49
770.11	S	-56.98	-60.71	7.74	-4.01	-25	-31.98
936.95	S	-58.61	-62.07	7.95	-4.49	-25	-33.61
5010.00	H	-54.07	-56.65	12.51	-9.93	-25	-29.07

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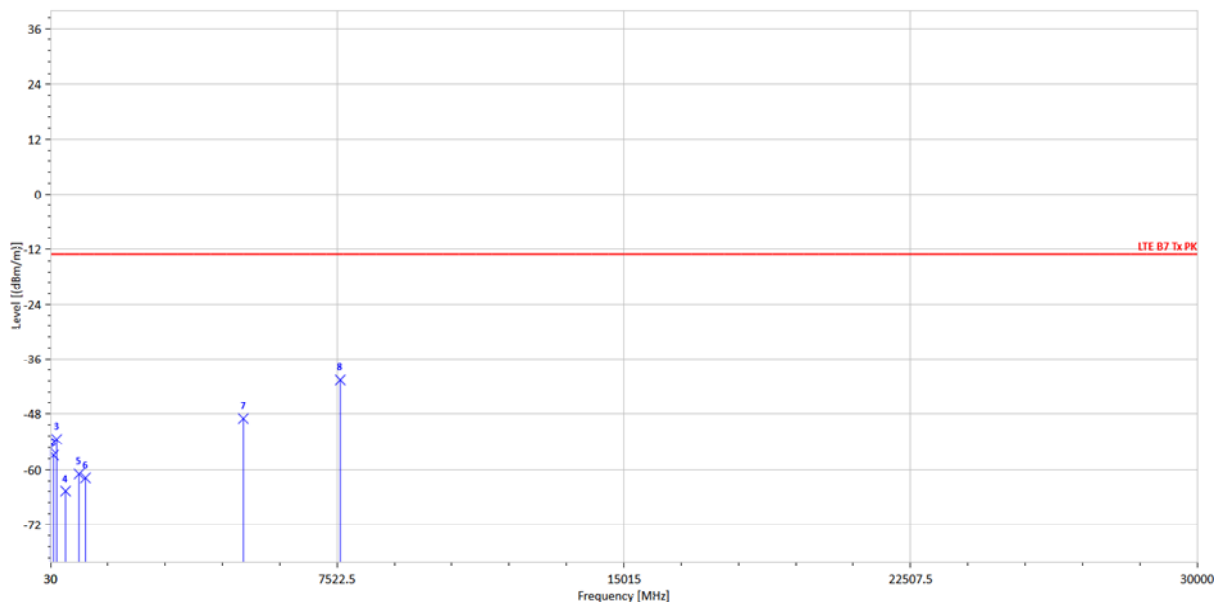
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Operation Mode :	LTEB7 10M 16QAM 1.49	Test Date :	2018/1/20
Fundamental Frequency :	2535 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



Freq.	Note	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBd/dBi	dB	dBm/m	dB
33.88	S	-55.42	-37.37	-17.21	-0.84	-25	-30.42
111.48	S	-56.91	-53.85	-1.59	-1.46	-25	-31.91
191.99	S	-53.43	-57.34	5.85	-1.95	-25	-28.43
424.79	S	-64.78	-67.82	6.01	-2.96	-25	-39.78
775.93	S	-60.94	-64.65	7.74	-4.03	-25	-35.94
944.71	S	-61.76	-65.20	7.96	-4.51	-25	-36.76
5070.00	H	-48.97	-51.56	12.57	-9.98	-25	-23.97
7605.00	H	-40.56	-40.26	11.30	-11.60	-25	-15.56

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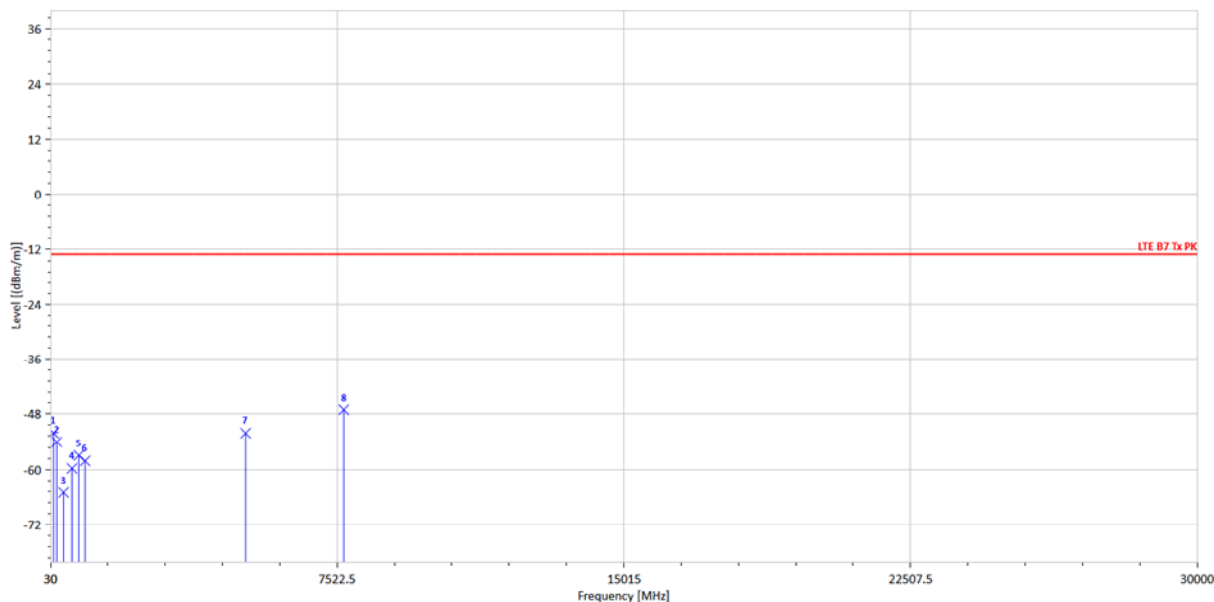
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Operation Mode :	LTEB7 10M 16QAM 1.49	Test Date :	2018/1/20
Fundamental Frequency :	2565 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBd/dBi	dB	dBm/m	dB
111.48	S	-52.08	-49.02	-1.59	-1.46	-25	-27.08
193.93	S	-54.05	-57.91	5.82	-1.96	-25	-29.05
370.47	S	-65.04	-68.18	5.89	-2.75	-25	-40.04
592.60	S	-59.76	-63.12	6.91	-3.54	-25	-34.76
769.14	S	-56.94	-60.67	7.73	-4.01	-25	-31.94
935.01	S	-58.14	-61.60	7.94	-4.49	-25	-33.14
5130.00	H	-52.11	-54.72	12.63	-10.02	-25	-27.11
7695.00	H	-47.08	-46.74	11.30	-11.64	-25	-22.08

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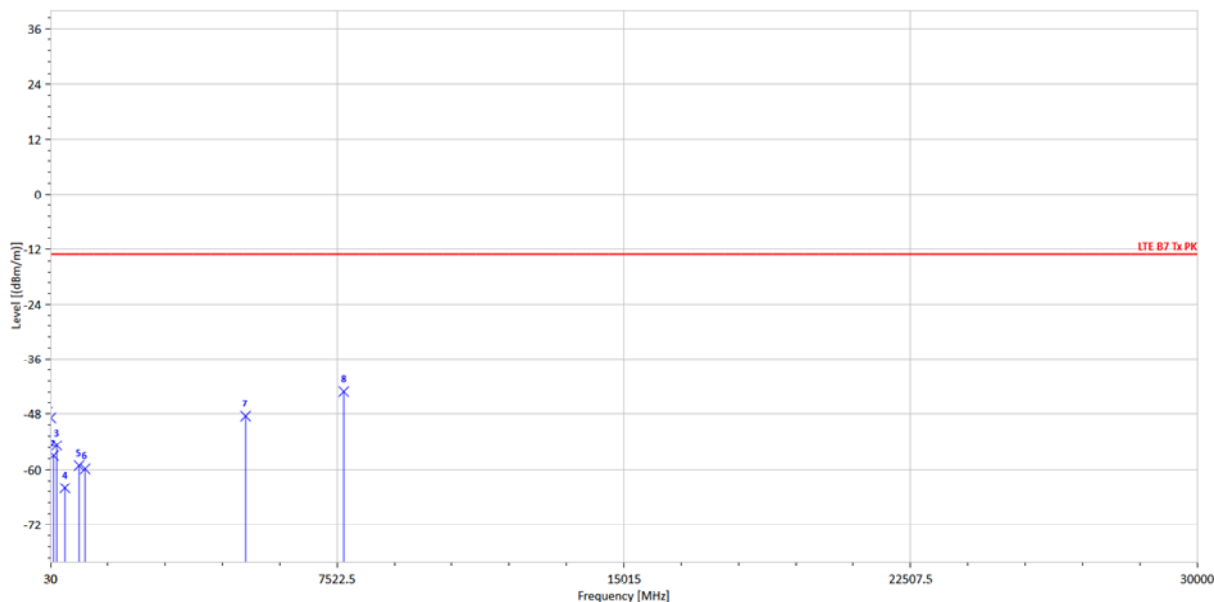
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Operation Mode :	LTEB7 10M 16QAM 1.49	Test Date :	2018/1/20
Fundamental Frequency :	2565 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



Freq.	Note	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBd/dBi	dB	dBm/m	dB
37.76	S	-48.83	-34.07	-13.90	-0.85	-25	-23.83
111.48	S	-57.01	-53.95	-1.59	-1.46	-25	-32.01
192.96	S	-54.78	-58.67	5.84	-1.95	-25	-29.78
406.36	S	-64.07	-66.99	5.82	-2.90	-25	-39.07
776.90	S	-59.15	-62.85	7.74	-4.04	-25	-34.15
934.04	S	-59.85	-63.32	7.94	-4.48	-25	-34.85
5130.00	H	-48.45	-51.06	12.63	-10.02	-25	-23.45
7695.00	H	-43.02	-42.68	11.30	-11.64	-25	-18.02

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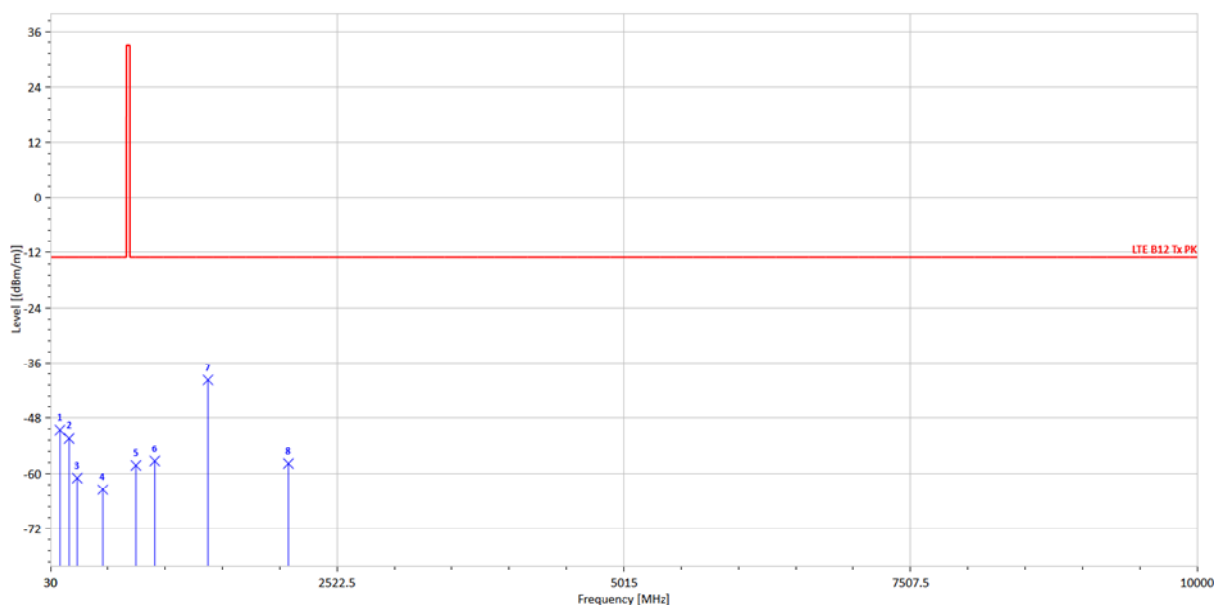
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Radiated Spurious Emission Measurement Result: LTE-Band 12

Operation Mode :	LTEB12 1.4M 16QAM 1.5	Test Date :	2018/1/19
Fundamental Frequency :	699.7 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP/EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBd/dBi	Loss dB	@3m dBm/m	dB
112.45	S	-50.56	-45.57	-3.52	-1.46	-13	-37.56
191.99	S	-52.33	-54.45	4.07	-1.95	-13	-39.33
262.80	S	-60.99	-61.03	2.35	-2.31	-13	-47.99
484.93	S	-63.53	-64.28	3.91	-3.17	-13	-50.53
773.02	S	-58.29	-59.45	5.19	-4.02	-13	-45.29
936.95	S	-57.33	-58.20	5.37	-4.49	-13	-44.33
1399.40	H	-39.68	-39.25	5.47	-5.90	-13	-26.68
2099.10	H	-57.88	-58.74	8.15	-7.29	-13	-44.88

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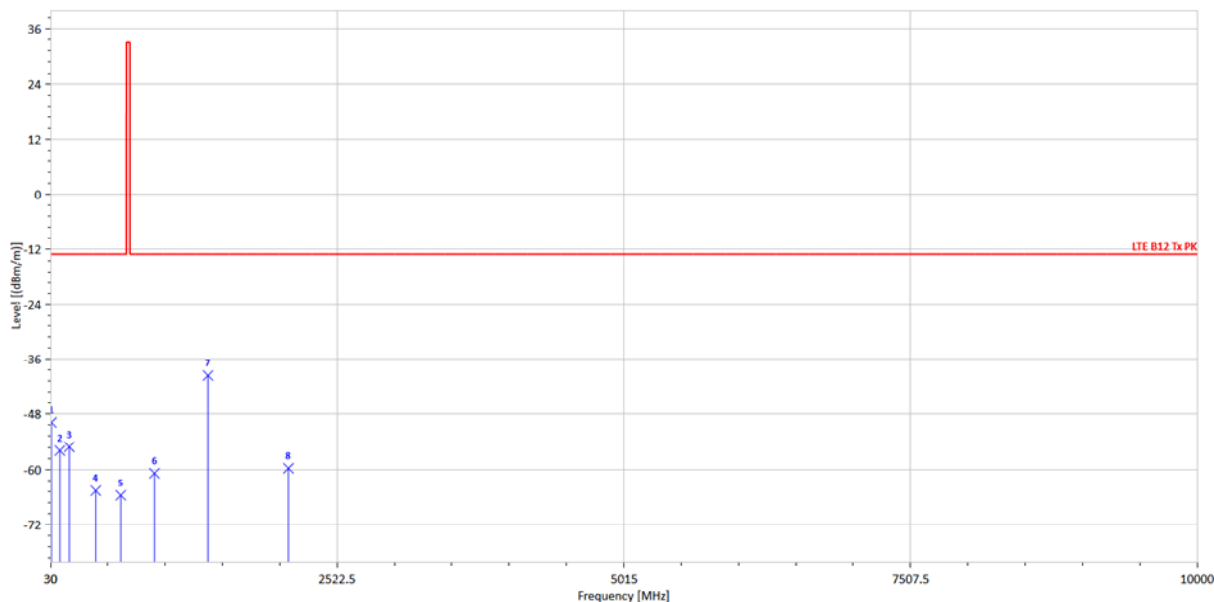
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Operation Mode :	LTEB12 1.4M 16QAM 1.5	Test Date :	2018/1/19
Fundamental Frequency :	699.7 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



Freq.	Note	ERP/EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level	Gain	Loss	@3m	dB
37.76	S	-49.80	-33.03	-15.92	-0.85	-13	-36.80
111.48	S	-55.92	-50.90	-3.56	-1.46	-13	-42.92
192.96	S	-55.12	-57.20	4.03	-1.95	-13	-42.12
423.82	S	-64.64	-65.08	3.40	-2.96	-13	-51.64
641.10	S	-65.64	-66.53	4.57	-3.67	-13	-52.64
934.04	S	-60.81	-61.68	5.36	-4.48	-13	-47.81
1399.40	H	-39.60	-39.16	5.47	-5.90	-13	-26.60
2099.10	H	-59.73	-60.59	8.15	-7.29	-13	-46.73

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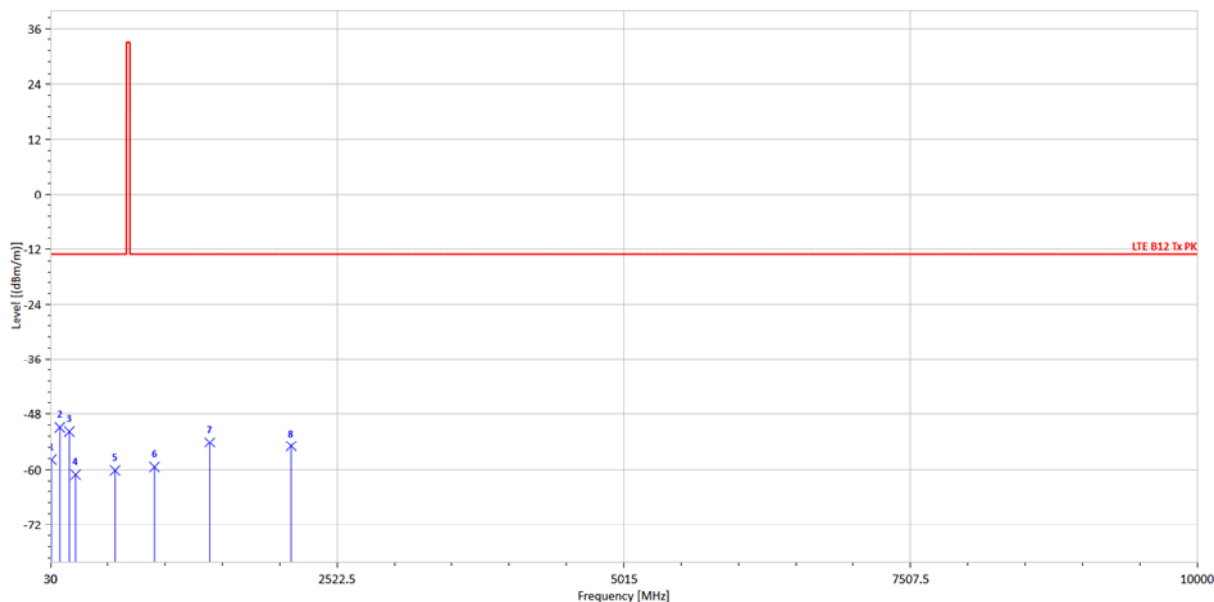
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Operation Mode :	LTEB12 1.4M 16QAM 1.5	Test Date :	2018/1/19
Fundamental Frequency :	707.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP/EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBd/dBi	Loss dB	@3m dBm/m	dB
37.76	S	-57.88	-41.11	-15.92	-0.85	-13	-44.88
111.48	S	-50.85	-45.84	-3.56	-1.46	-13	-37.85
193.93	S	-51.73	-53.76	4.00	-1.96	-13	-38.73
248.25	S	-61.08	-61.72	2.88	-2.24	-13	-48.08
591.63	S	-60.18	-60.91	4.26	-3.54	-13	-47.18
934.04	S	-59.45	-60.32	5.36	-4.48	-13	-46.45
1415.00	H	-54.14	-53.75	5.54	-5.93	-13	-41.14
2122.50	H	-54.94	-55.79	8.17	-7.32	-13	-41.94

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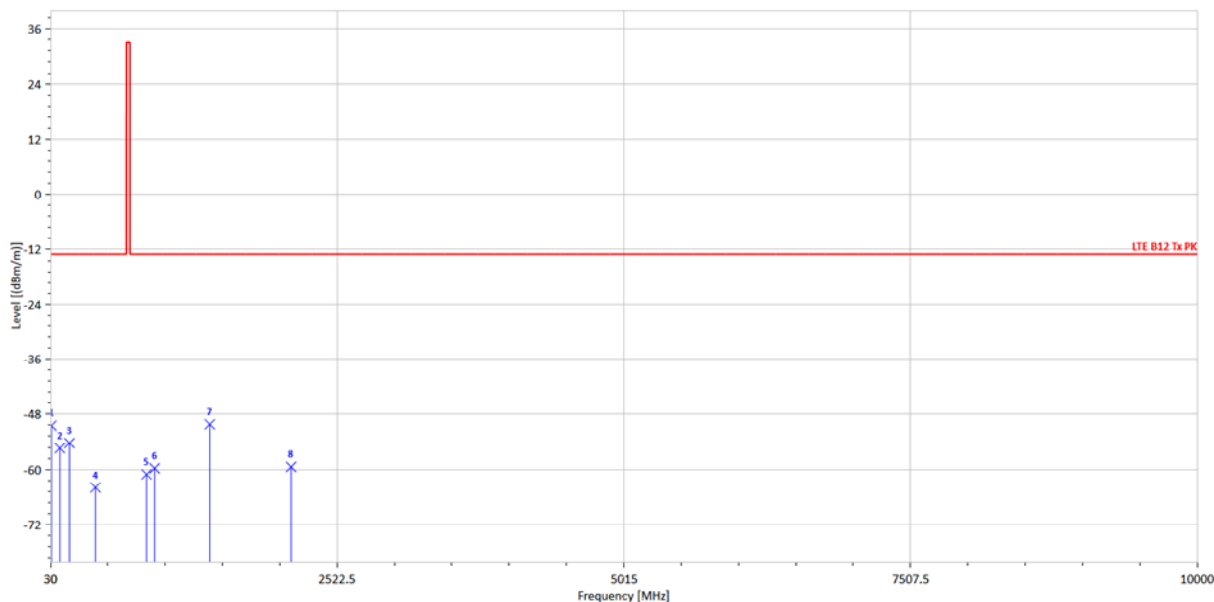
t (886-2) 2299-3279

f (886-2) 2298-0488

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Operation Mode :	LTEB12 1.4M 16QAM 1.5	Test Date :	2018/1/19
Fundamental Frequency :	707.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



Freq.	Note	ERP/EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level	Gain	Loss	@3m	dB
37.76	S	-50.48	-33.71	-15.92	-0.85	-13	-37.48
111.48	S	-55.39	-50.37	-3.56	-1.46	-13	-42.39
194.90	S	-54.26	-56.26	3.96	-1.96	-13	-41.26
420.91	S	-63.94	-64.36	3.38	-2.95	-13	-50.94
865.17	S	-61.05	-61.83	5.11	-4.33	-13	-48.05
935.01	S	-59.74	-60.61	5.36	-4.49	-13	-46.74
1415.00	H	-50.19	-49.80	5.54	-5.93	-13	-37.19
2122.50	H	-59.43	-60.28	8.17	-7.32	-13	-46.43

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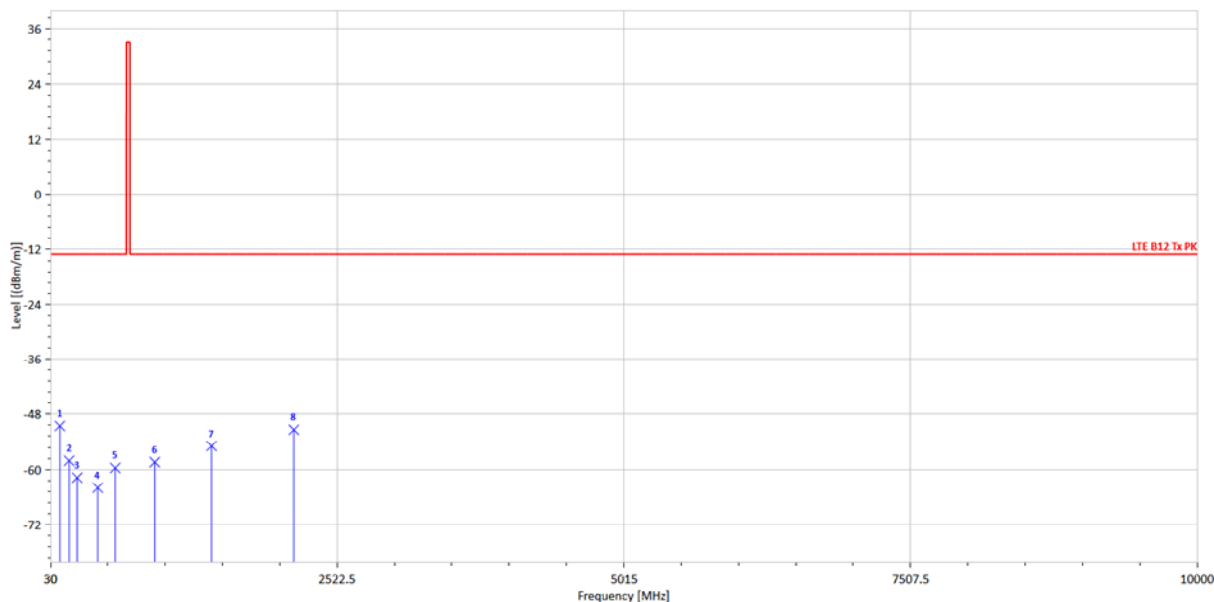
t (886-2) 2299-3279

f (886-2) 2298-0488

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Operation Mode :	LTEB12 1.4M 16QAM 1.5	Test Date :	2018/1/19
Fundamental Frequency :	715.3 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP/EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBd/dBi	Loss dB	@3m dBm/m	dB
111.48	S	-50.54	-45.52	-3.56	-1.46	-13	-37.54
191.99	S	-58.11	-60.22	4.07	-1.95	-13	-45.11
261.83	S	-61.77	-61.71	2.25	-2.31	-13	-48.77
441.28	S	-64.00	-64.53	3.55	-3.02	-13	-51.00
592.60	S	-59.66	-60.39	4.27	-3.54	-13	-46.66
936.95	S	-58.42	-59.30	5.37	-4.49	-13	-45.42
1430.60	H	-54.92	-54.57	5.62	-5.97	-13	-41.92
2145.90	H	-51.36	-52.20	8.20	-7.36	-13	-38.36

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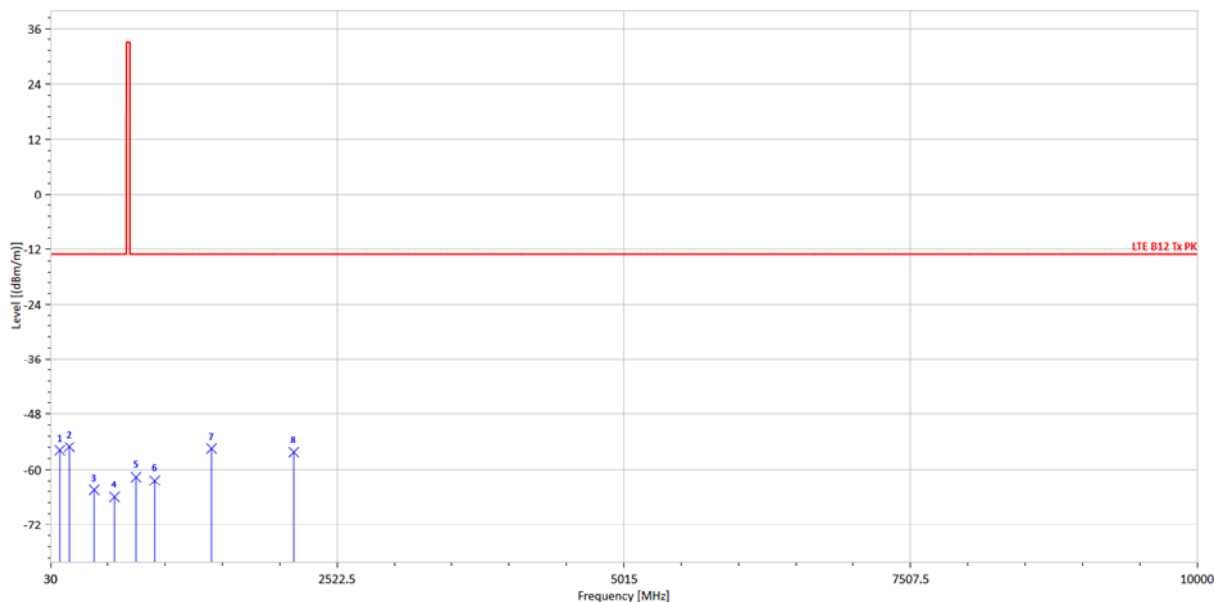
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Operation Mode :	LTEB12 1.4M 16QAM 1.5	Test Date :	2018/1/19
Fundamental Frequency :	715.3 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



Freq.	Note	ERP/EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBd/dBi	Loss dB	@3m dBm/m	dB
111.48	S	-55.89	-50.87	-3.56	-1.46	-13	-42.89
193.93	S	-55.14	-57.18	4.00	-1.96	-13	-42.14
410.24	S	-64.51	-64.88	3.29	-2.92	-13	-51.51
586.78	S	-66.01	-66.72	4.23	-3.52	-13	-53.01
773.99	S	-61.63	-62.79	5.19	-4.03	-13	-48.63
935.98	S	-62.41	-63.28	5.36	-4.49	-13	-49.41
1430.60	H	-55.53	-55.18	5.62	-5.97	-13	-42.53
2145.90	H	-56.31	-57.14	8.20	-7.36	-13	-43.31

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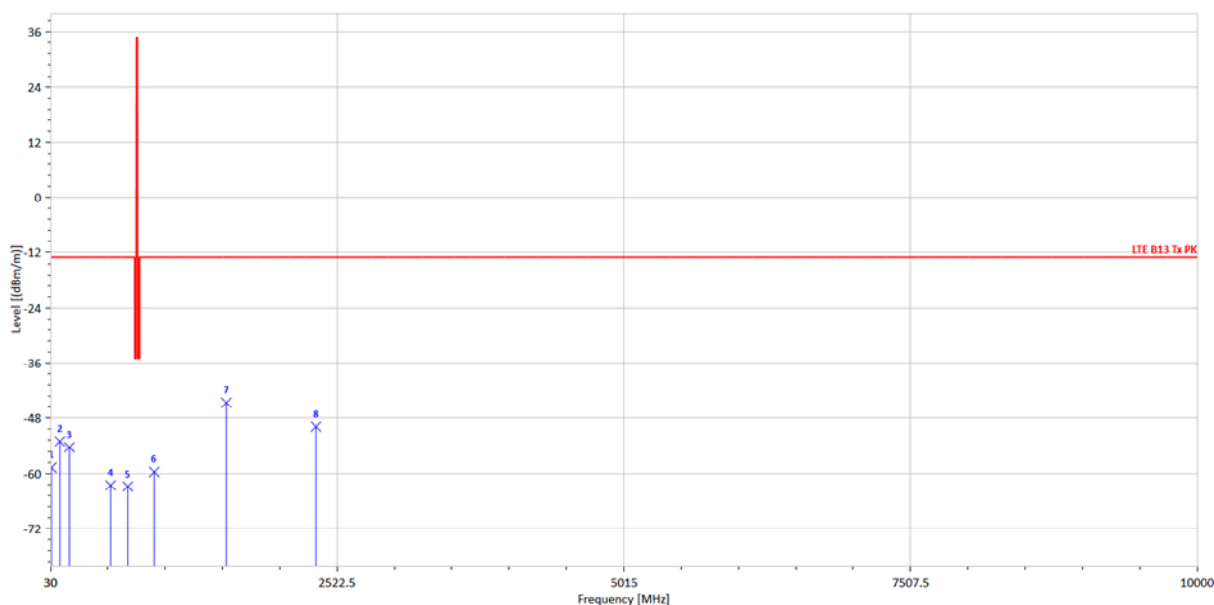
f (886-2) 2298-0488

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Radiated Spurious Emission Measurement Result: LTE-Band 13

Operation Mode :	LTEB13 5M QPSK 1.0	Test Date :	2018/1/19
Fundamental Frequency :	779.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP/EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level	Gain	Loss	@3m	dB
37.76	S	-58.73	-41.97	-15.92	-0.85	-13	-45.73
111.48	S	-53.00	-47.99	-3.56	-1.46	-13	-40.00
193.93	S	-54.29	-56.33	4.00	-1.96	-13	-41.29
552.83	S	-62.57	-63.14	3.99	-3.42	-13	-49.57
702.21	S	-62.82	-64.05	5.06	-3.83	-13	-49.82
932.10	S	-59.68	-60.55	5.35	-4.48	-13	-46.68
1559.00	H	-44.61	-43.46	6.20	-7.35	-13	-31.61
2338.50	H	-49.83	-48.23	8.39	-10.00	-13	-36.83

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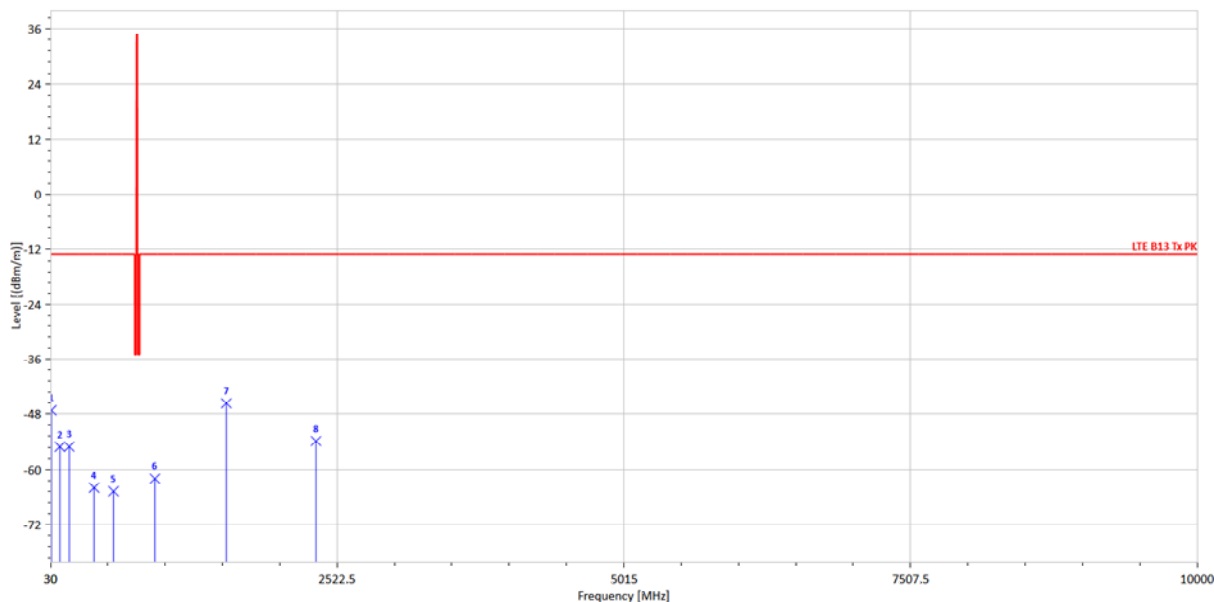
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f (886-2) 2298-0488

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Operation Mode :	LTEB13 5M QPSK 1.0	Test Date :	2018/1/19
Fundamental Frequency :	779.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



Freq.	Note	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBd/dBi	dB	dBm/m	dB
37.76	S	-47.18	-30.41	-15.92	-0.85	-13	-34.18
111.48	S	-55.10	-50.08	-3.56	-1.46	-13	-42.10
192.96	S	-55.08	-57.16	4.03	-1.95	-13	-42.08
409.27	S	-64.00	-64.36	3.28	-2.92	-13	-51.00
578.05	S	-64.80	-65.48	4.17	-3.48	-13	-51.80
937.92	S	-61.96	-62.83	5.37	-4.49	-13	-48.96
1559.00	H	-45.63	-44.48	6.20	-7.35	-13	-32.63
2338.50	H	-53.83	-52.23	8.39	-10.00	-13	-40.83

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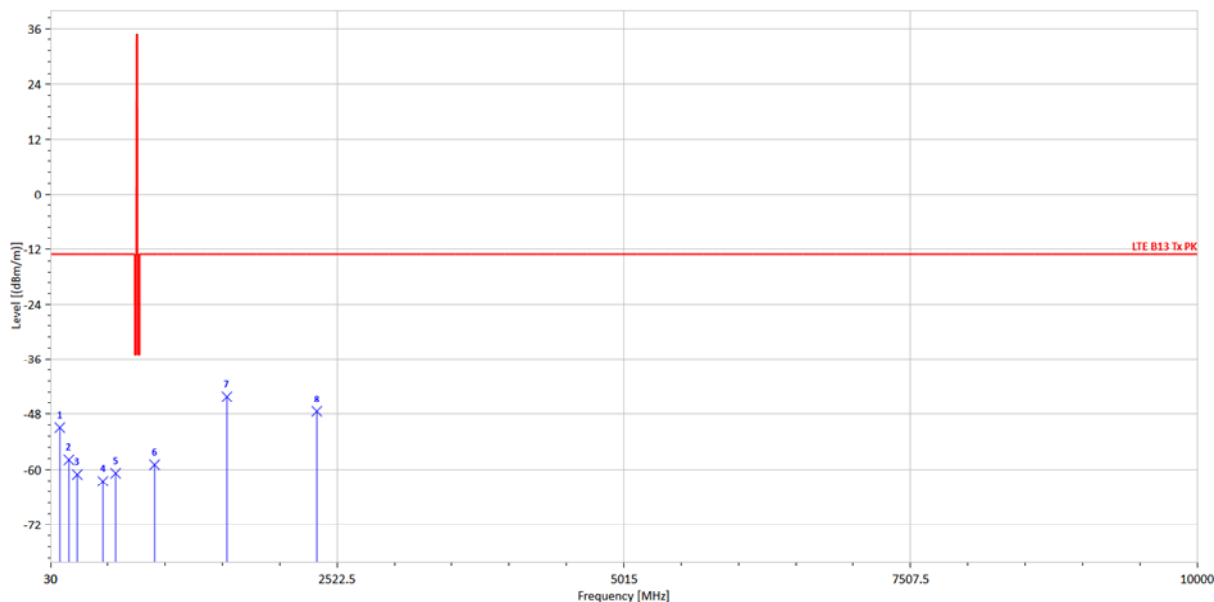
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Operation Mode :	LTEB13 5M QPSK 1.0	Test Date :	2018/1/19
Fundamental Frequency :	782 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBd/dBi	dB	dBm/m	dB
111.48	S	-50.88	-45.86	-3.56	-1.46	-13	-37.88
190.05	S	-57.94	-60.14	4.14	-1.94	-13	-44.94
262.80	S	-61.08	-61.12	2.35	-2.31	-13	-48.08
485.90	S	-62.57	-63.32	3.92	-3.17	-13	-49.57
596.48	S	-60.80	-61.54	4.30	-3.56	-13	-47.80
935.01	S	-58.99	-59.87	5.36	-4.49	-13	-45.99
1564.00	H	-44.14	-42.99	6.22	-7.37	-13	-31.14
2346.00	H	-47.42	-45.79	8.40	-10.02	-13	-34.42

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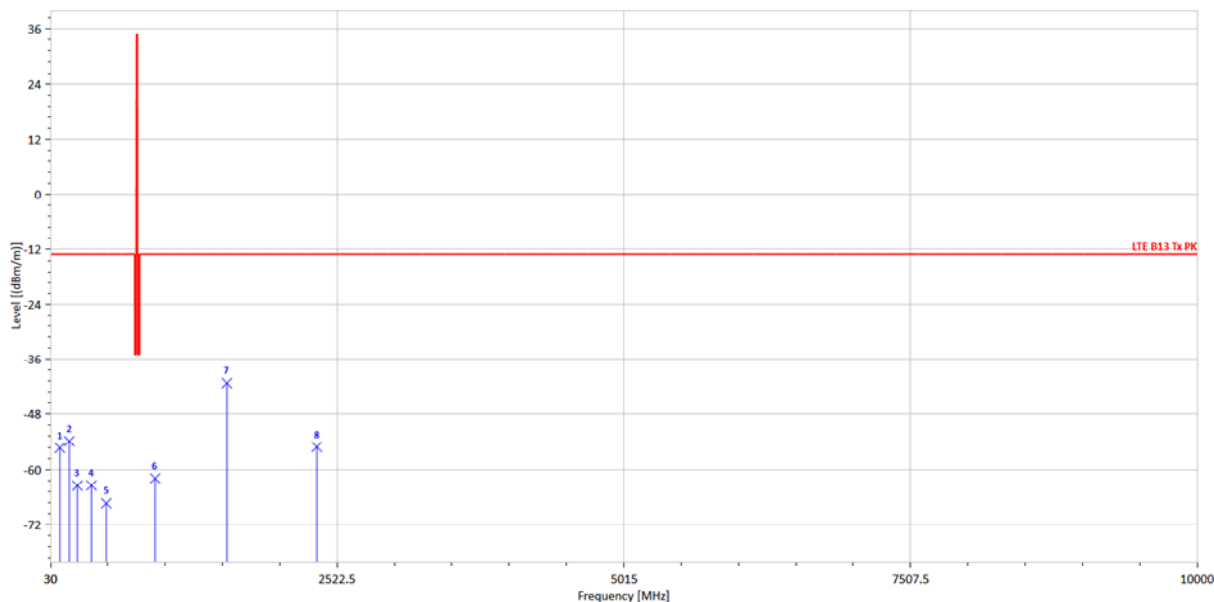
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Operation Mode :	LTEB13 5M QPSK 1.0	Test Date :	2018/1/19
Fundamental Frequency :	782 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



Freq.	Note	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBd/dBi	dB	dBm/m	dB
111.48	S	-55.32	-50.30	-3.56	-1.46	-13	-42.32
192.96	S	-53.85	-55.93	4.03	-1.95	-13	-40.85
263.77	S	-63.51	-63.64	2.45	-2.32	-13	-50.51
385.99	S	-63.48	-63.93	3.27	-2.81	-13	-50.48
515.00	S	-67.37	-68.11	4.02	-3.29	-13	-54.37
939.86	S	-61.92	-62.80	5.38	-4.50	-13	-48.92
1564.00	H	-41.25	-40.10	6.22	-7.37	-13	-28.25
2346.00	H	-55.12	-53.49	8.40	-10.02	-13	-42.12

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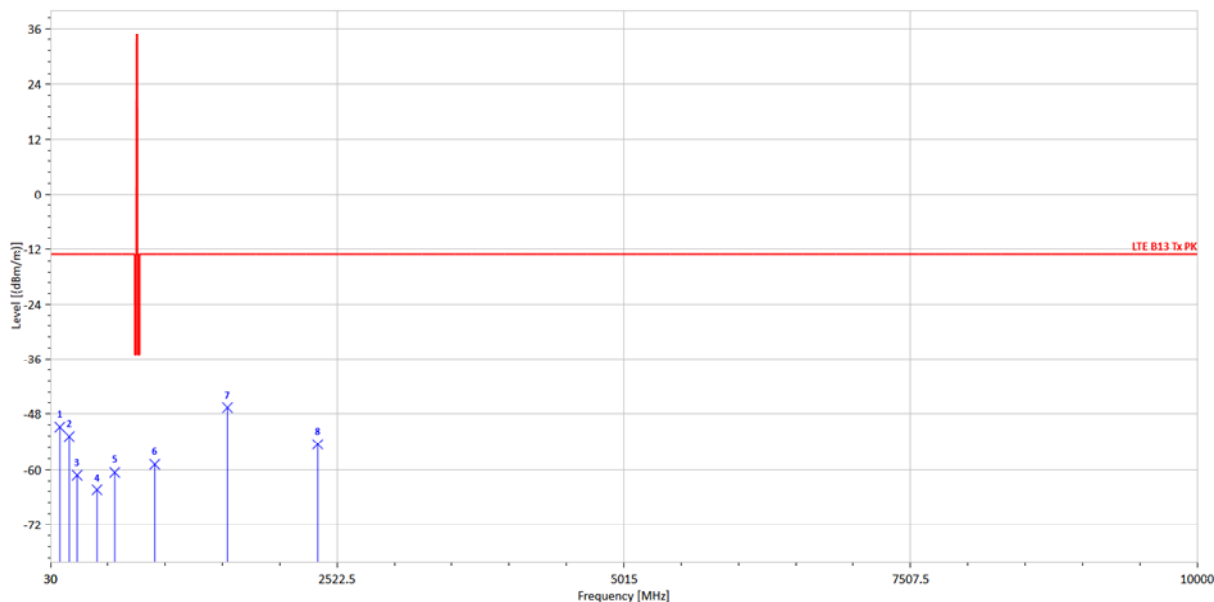
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Operation Mode :	LTEB13 5M QPSK 1.0	Test Date :	2018/1/19
Fundamental Frequency :	784.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBd/dBi	dB	dBm/m	dB
111.48	S	-50.78	-45.76	-3.56	-1.46	-13	-37.78
192.96	S	-52.81	-54.89	4.03	-1.95	-13	-39.81
261.83	S	-61.20	-61.14	2.25	-2.31	-13	-48.20
434.49	S	-64.50	-65.00	3.49	-2.99	-13	-51.50
588.72	S	-60.60	-61.32	4.24	-3.52	-13	-47.60
936.95	S	-58.88	-59.75	5.37	-4.49	-13	-45.88
1569.00	H	-46.63	-45.49	6.24	-7.39	-13	-33.63
2353.50	H	-54.54	-52.90	8.40	-10.04	-13	-41.54

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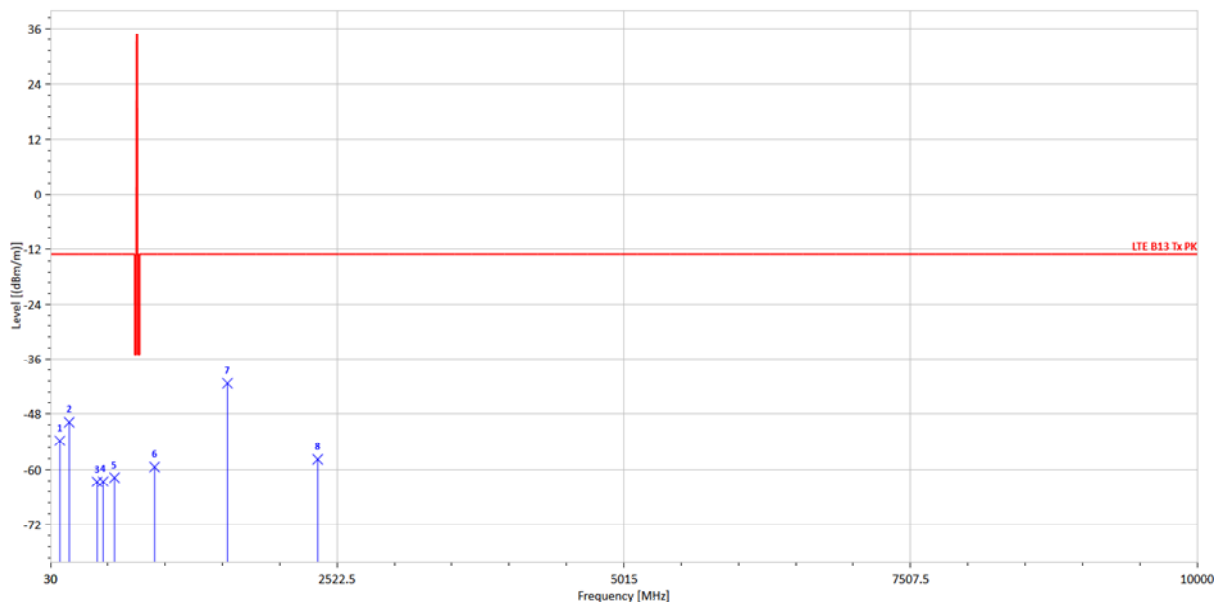
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Operation Mode :	LTEB13 5M QPSK 1.0	Test Date :	2018/1/19
Fundamental Frequency :	784.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



Freq.	Note	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBd/dBi	dB	dBm/m	dB
111.48	S	-53.76	-48.74	-3.56	-1.46	-13	-40.76
192.96	S	-49.76	-51.84	4.03	-1.95	-13	-36.76
435.46	S	-62.67	-63.17	3.50	-3.00	-13	-49.67
487.84	S	-62.62	-63.38	3.94	-3.18	-13	-49.62
586.78	S	-61.75	-62.46	4.23	-3.52	-13	-48.75
935.01	S	-59.46	-60.33	5.36	-4.49	-13	-46.46
1569.00	H	-41.25	-40.10	6.24	-7.39	-13	-28.25
2353.50	H	-57.82	-56.18	8.40	-10.04	-13	-44.82

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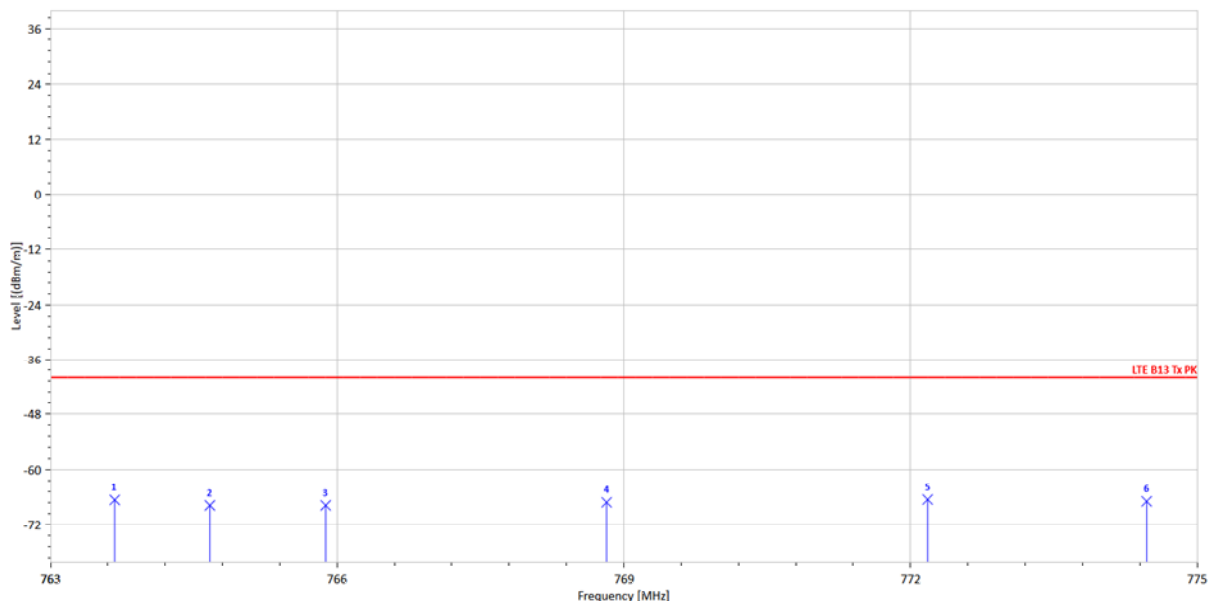
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Radiated Spurious Emission Measurement Result: LTE-Band 13 (inband measurement 763~775MHz)

Operation Mode :	LTEB13 5M QPSK 1.0	Test Date :	2018/1/20
Fundamental Frequency :	779.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP/EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBd/dBi	Loss dB	@3m dBm/m	dB
763.67	S	-66.64	-67.83	5.18	-3.98	-40	-26.64
764.67	S	-67.81	-69.00	5.18	-3.99	-40	-27.81
765.88	S	-67.81	-69.00	5.18	-3.99	-40	-27.81
768.82	S	-67.16	-68.34	5.18	-4.01	-40	-27.16
772.18	S	-66.55	-67.72	5.19	-4.02	-40	-26.55
774.47	S	-66.94	-68.11	5.19	-4.03	-40	-26.94

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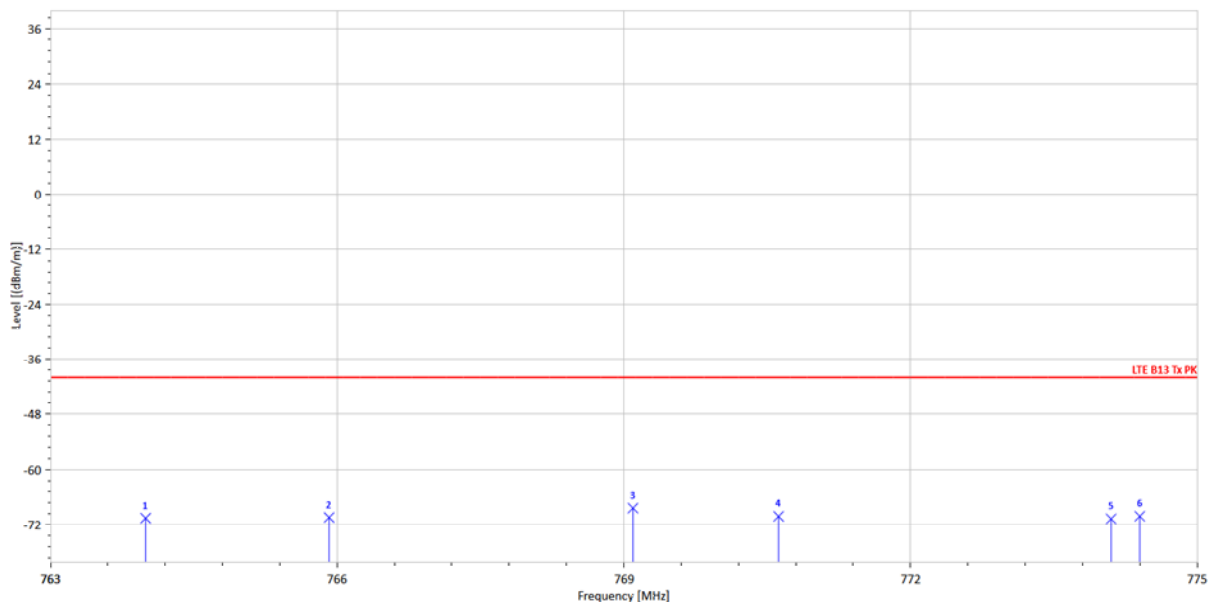
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Operation Mode :	LTEB13 5M QPSK 1.0	Test Date :	2018/1/20
Fundamental Frequency :	779.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



Freq.	Note	ERP/EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBd/dBi	Loss dB	@3m dBm/m	dB
764.00	S	-70.56	-71.75	5.18	-3.99	-40	-30.56
765.92	S	-70.40	-71.59	5.18	-3.99	-40	-30.40
769.10	S	-68.40	-69.57	5.18	-4.01	-40	-28.40
770.62	S	-70.16	-71.33	5.18	-4.01	-40	-30.16
774.10	S	-70.70	-71.86	5.19	-4.03	-40	-30.70
774.40	S	-70.14	-71.30	5.19	-4.03	-40	-30.14

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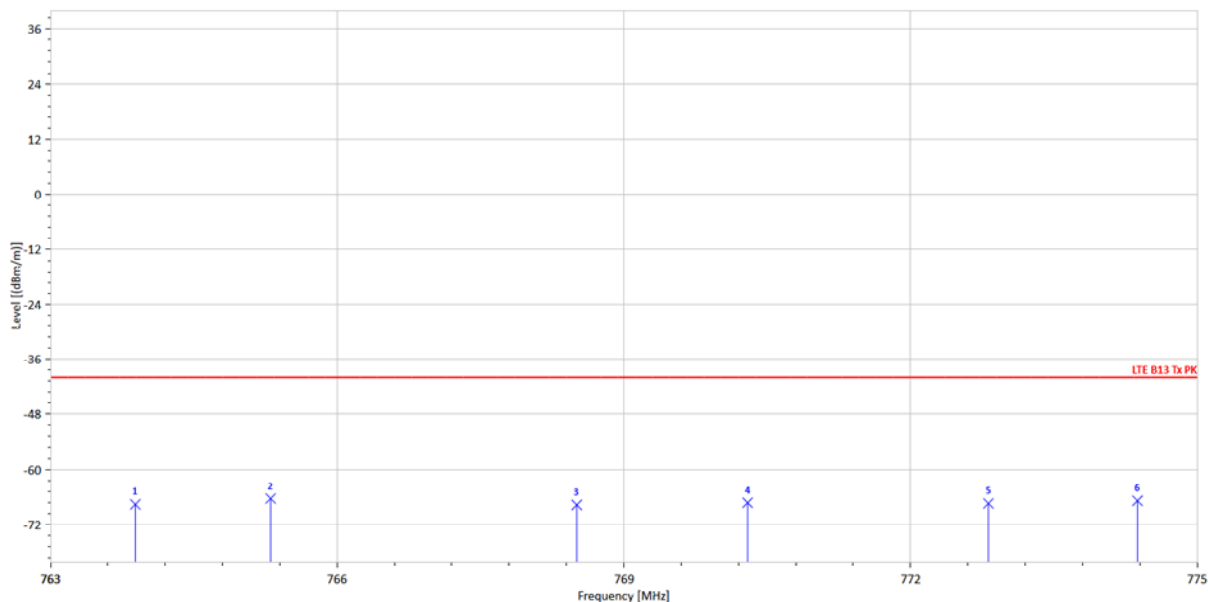
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Operation Mode :	LTEB13 5M QPSK 1.0	Test Date :	2018/1/20
Fundamental Frequency :	782 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP/EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBd/dBi	Loss dB	@3m dBm/m	dB
763.89	S	-67.59	-68.78	5.18	-3.99	-40	-27.59
765.30	S	-66.34	-67.52	5.18	-3.99	-40	-26.34
768.51	S	-67.71	-68.89	5.18	-4.00	-40	-27.71
770.30	S	-67.24	-68.41	5.18	-4.01	-40	-27.24
772.82	S	-67.39	-68.56	5.19	-4.02	-40	-27.39
774.38	S	-66.82	-67.98	5.19	-4.03	-40	-26.82

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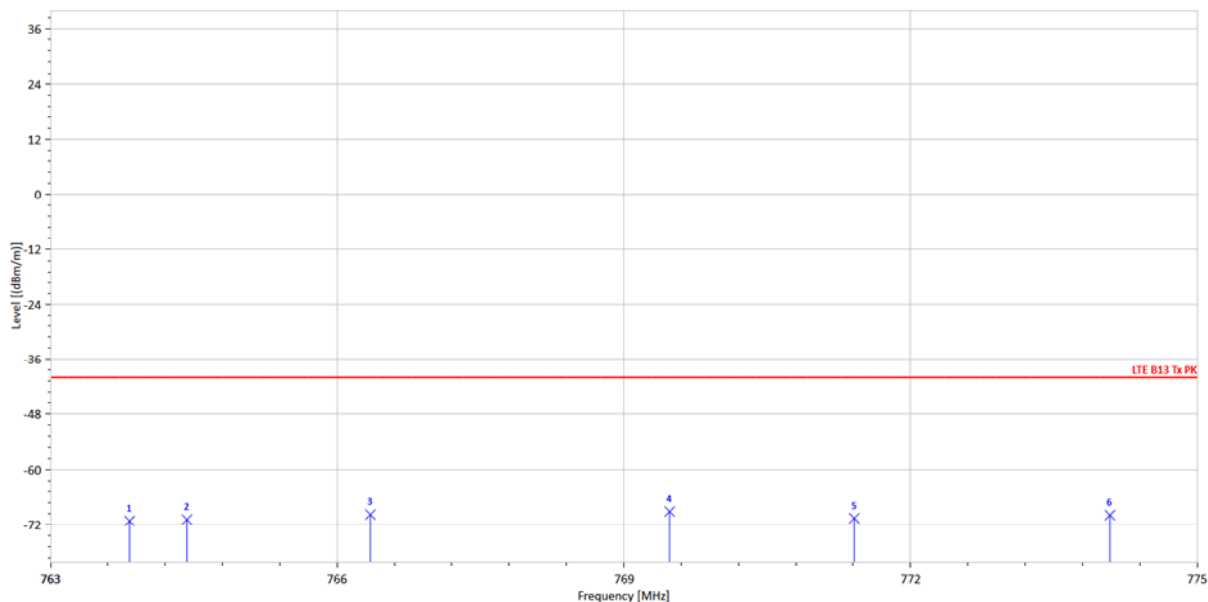
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Operation Mode :	LTEB13 5M QPSK 1.0	Test Date :	2018/1/20
Fundamental Frequency :	782 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



Freq.	Note	ERP/EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBd/dBi	Loss dB	@3m dBm/m	dB
763.83	S	-71.17	-72.36	5.18	-3.99	-40	-31.17
764.43	S	-70.87	-72.06	5.18	-3.99	-40	-30.87
766.35	S	-69.78	-70.96	5.18	-4.00	-40	-29.78
769.48	S	-69.13	-70.31	5.18	-4.01	-40	-29.13
771.41	S	-70.58	-71.75	5.19	-4.02	-40	-30.58
774.09	S	-69.91	-71.08	5.19	-4.03	-40	-29.91

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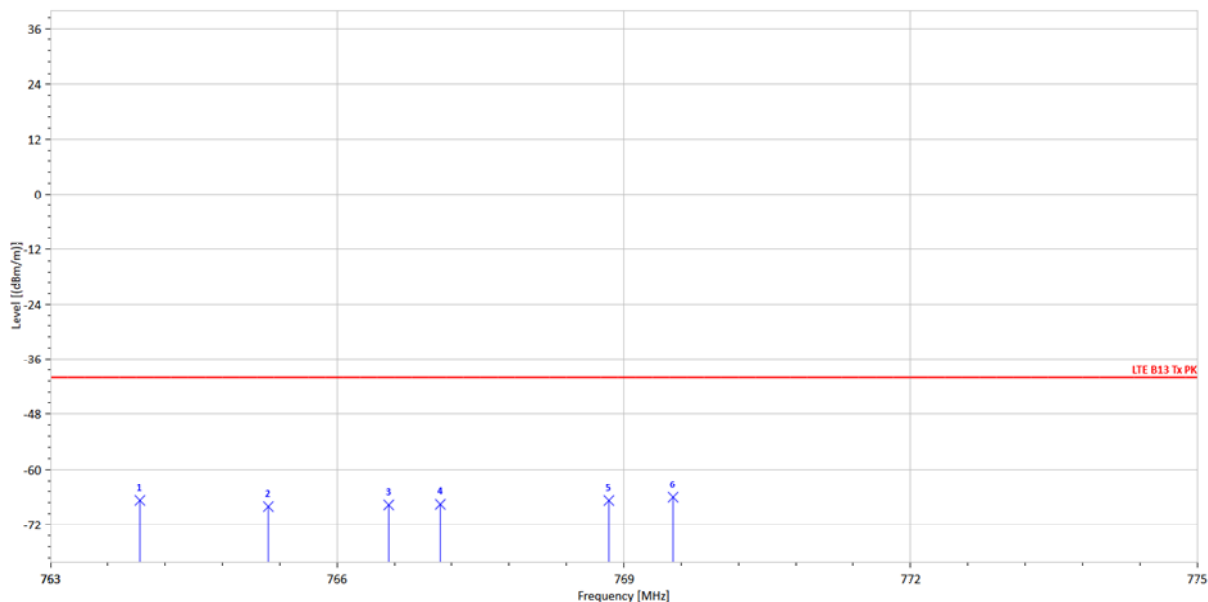
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Operation Mode :	LTEB13 5M QPSK 1.0	Test Date :	2018/1/20
Fundamental Frequency :	784.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP/EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBd/dBi	Loss dB	@3m dBm/m	dB
763.94	S	-66.75	-67.94	5.18	-3.99	-40	-26.75
765.28	S	-68.07	-69.26	5.18	-3.99	-40	-28.07
766.54	S	-67.72	-68.90	5.18	-4.00	-40	-27.72
767.08	S	-67.59	-68.77	5.18	-4.00	-40	-27.59
768.84	S	-66.77	-67.95	5.18	-4.01	-40	-26.77
769.52	S	-66.07	-67.25	5.18	-4.01	-40	-26.07

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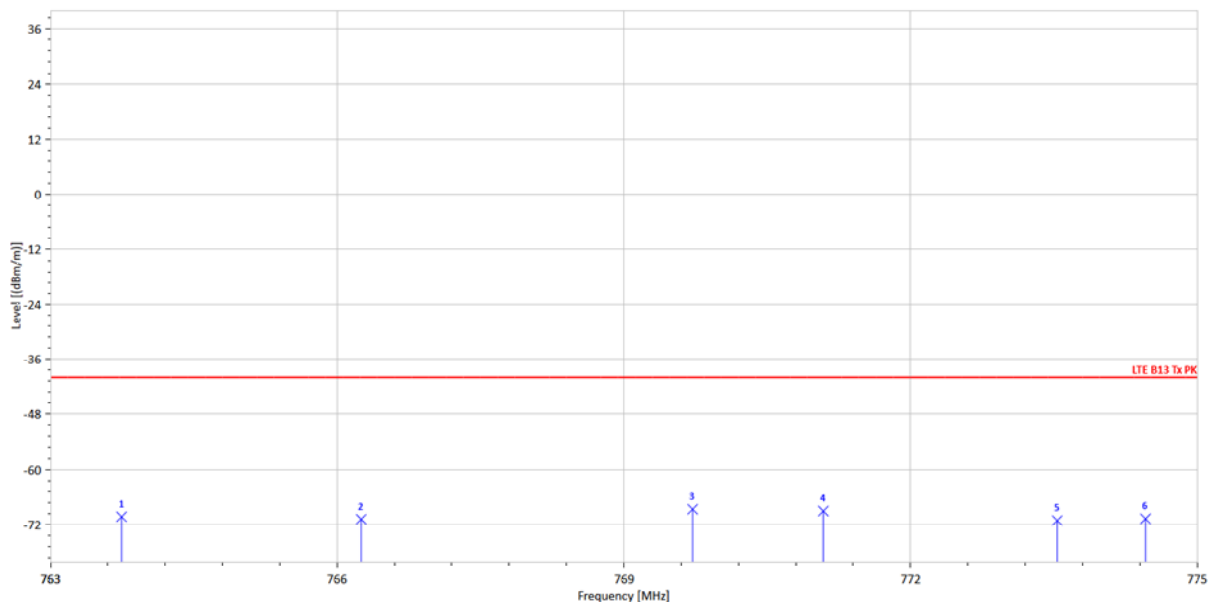
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Operation Mode :	LTEB13 5M QPSK 1.0	Test Date :	2018/1/20
Fundamental Frequency :	784.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



Freq.	Note	ERP/EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBd/dBi	Loss dB	@3m dBm/m	dB
763.74	S	-70.26	-71.45	5.18	-3.98	-40	-30.26
766.25	S	-70.80	-71.98	5.18	-4.00	-40	-30.80
769.72	S	-68.64	-69.81	5.18	-4.01	-40	-28.64
771.09	S	-69.03	-70.20	5.19	-4.01	-40	-29.03
773.54	S	-71.09	-72.25	5.19	-4.02	-40	-31.09
774.46	S	-70.70	-71.86	5.19	-4.03	-40	-30.70

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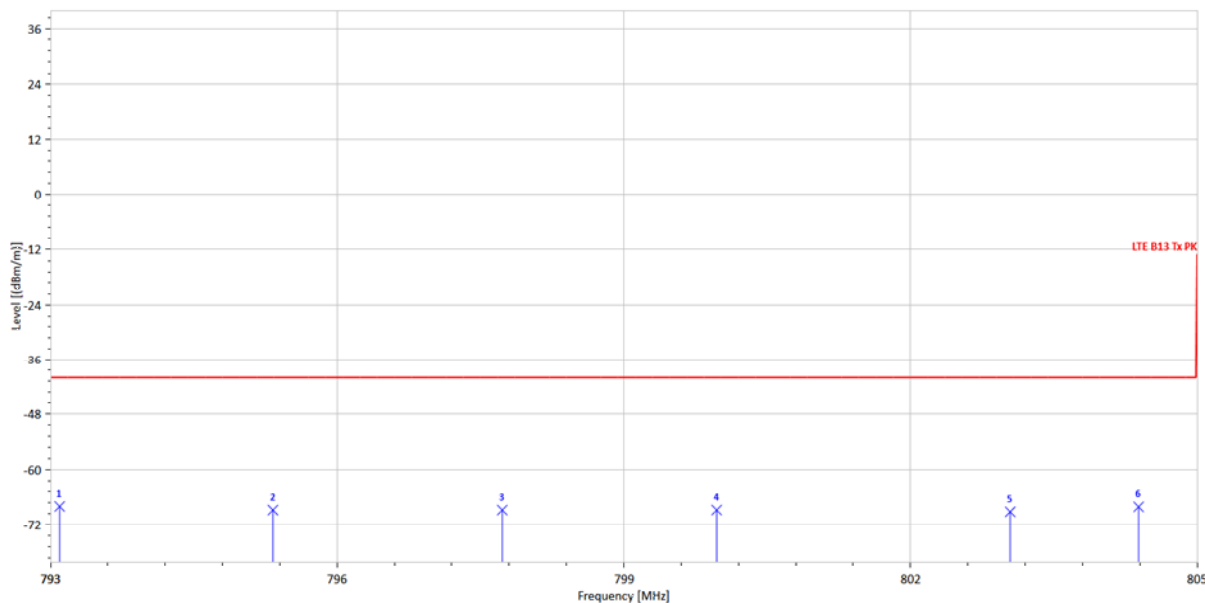
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Radiated Spurious Emission Measurement Result: LTE-Band 13 (inband measurement 793~805MHz)

Operation Mode :	LTEB13 5M QPSK 1.0	Test Date :	2018/1/20
Fundamental Frequency :	779.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP/EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBd/dBi	Loss dB	@3m dBm/m	dB
793.10	S	-68.04	-69.16	5.21	-4.10	-40	-28.04
795.33	S	-68.82	-69.93	5.21	-4.10	-40	-28.82
797.73	S	-68.82	-69.93	5.22	-4.11	-40	-28.82
799.97	S	-68.81	-69.92	5.22	-4.11	-40	-28.81
803.04	S	-69.19	-70.28	5.21	-4.12	-40	-29.19
804.39	S	-68.12	-69.21	5.21	-4.12	-40	-28.12

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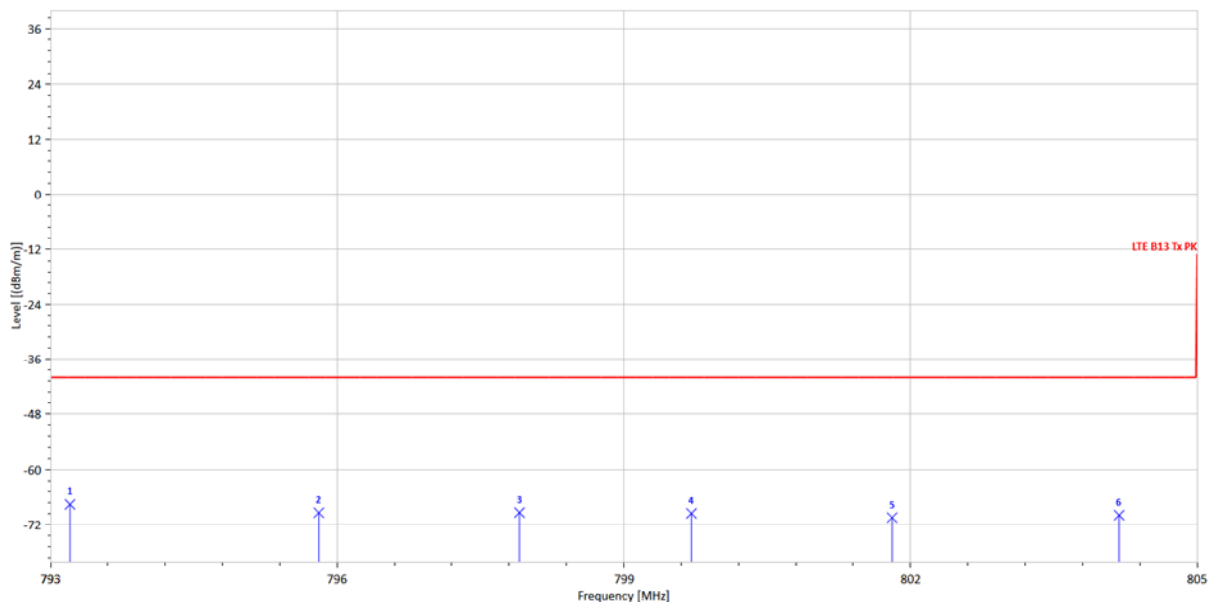
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Operation Mode :	LTEB13 5M QPSK 1.0	Test Date :	2018/1/20
Fundamental Frequency :	779.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



Freq.	Note	ERP/EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBd/dBi	Loss dB	@3m dBm/m	dB
793.20	S	-67.59	-68.71	5.21	-4.10	-40	-27.59
795.81	S	-69.39	-70.50	5.21	-4.10	-40	-29.39
797.91	S	-69.35	-70.46	5.22	-4.11	-40	-29.35
799.71	S	-69.53	-70.64	5.22	-4.11	-40	-29.53
801.81	S	-70.44	-71.54	5.21	-4.11	-40	-30.44
804.18	S	-69.92	-71.00	5.21	-4.12	-40	-29.92

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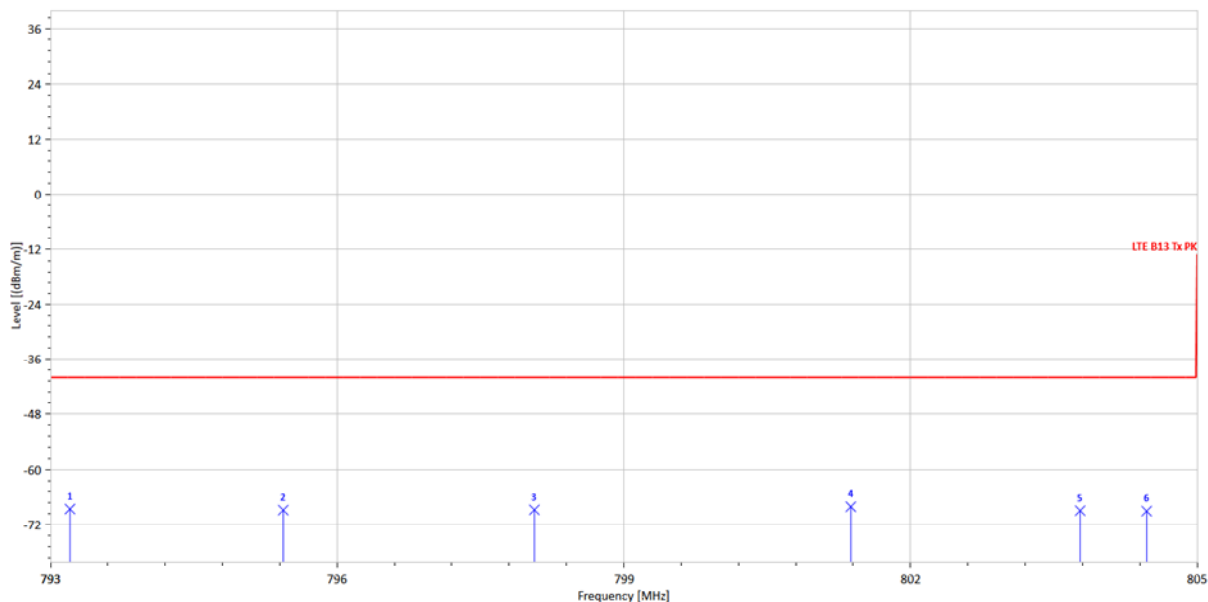
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Operation Mode :	LTEB13 5M QPSK 1.0	Test Date :	2018/1/20
Fundamental Frequency :	782 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP/EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBd/dBi	Loss dB	@3m dBm/m	dB
793.20	S	-68.59	-69.70	5.21	-4.10	-40	-28.59
795.44	S	-68.83	-69.95	5.21	-4.10	-40	-28.83
798.06	S	-68.76	-69.87	5.22	-4.11	-40	-28.76
801.38	S	-68.10	-69.20	5.22	-4.11	-40	-28.10
803.78	S	-68.95	-70.04	5.21	-4.12	-40	-28.95
804.47	S	-69.04	-70.13	5.20	-4.12	-40	-29.04

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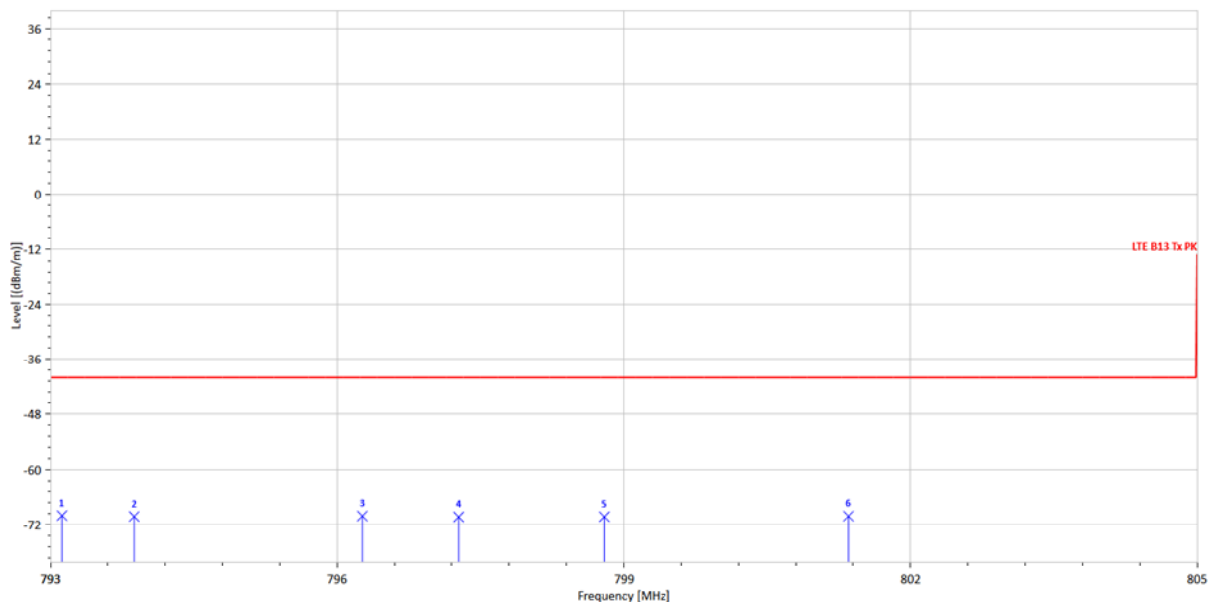
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Operation Mode :	LTEB13 5M QPSK 1.0	Test Date :	2018/1/20
Fundamental Frequency :	782 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



Freq.	Note	ERP/EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBd/dBi	Loss dB	@3m dBm/m	dB
793.12	S	-70.02	-71.13	5.21	-4.10	-40	-30.02
793.88	S	-70.21	-71.33	5.21	-4.10	-40	-30.21
796.26	S	-70.12	-71.23	5.22	-4.10	-40	-30.12
797.27	S	-70.31	-71.42	5.22	-4.10	-40	-30.31
798.80	S	-70.26	-71.37	5.22	-4.11	-40	-30.26
801.35	S	-70.14	-71.24	5.22	-4.11	-40	-30.14

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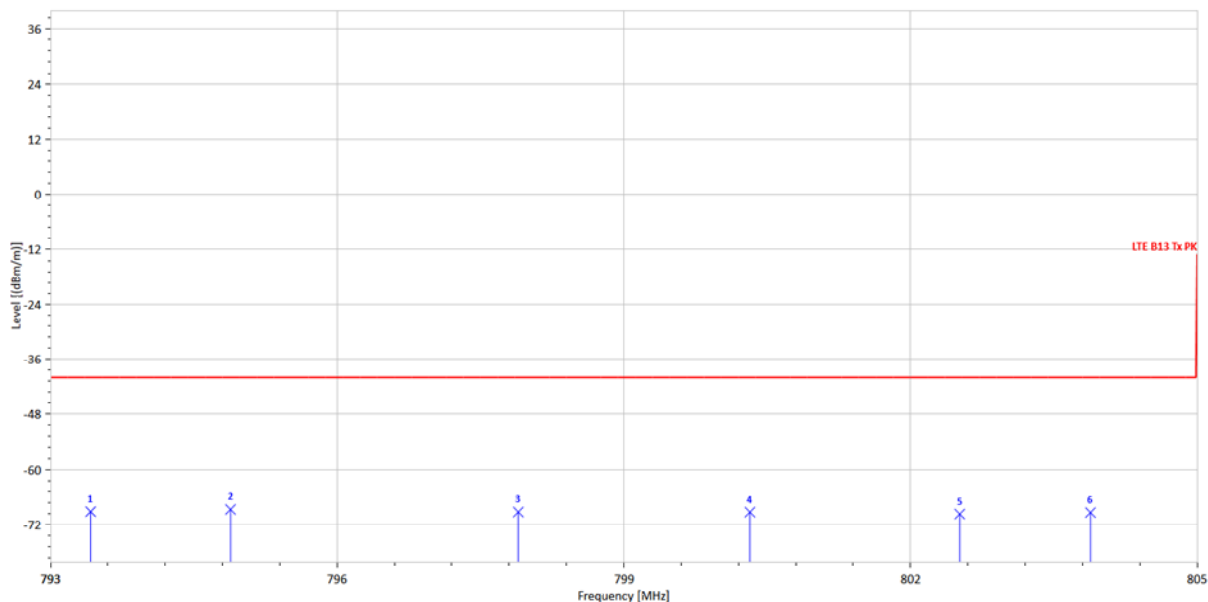
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Operation Mode :	LTEB13 5M QPSK 1.0	Test Date :	2018/1/20
Fundamental Frequency :	784.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP/EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBd/dBi	Loss dB	@3m dBm/m	dB
793.42	S	-69.15	-70.26	5.21	-4.10	-40	-29.15
794.88	S	-68.68	-69.79	5.21	-4.10	-40	-28.68
797.90	S	-69.23	-70.35	5.22	-4.11	-40	-29.23
800.32	S	-69.26	-70.36	5.22	-4.11	-40	-29.26
802.52	S	-69.67	-70.77	5.21	-4.12	-40	-29.67
803.88	S	-69.35	-70.44	5.21	-4.12	-40	-29.35

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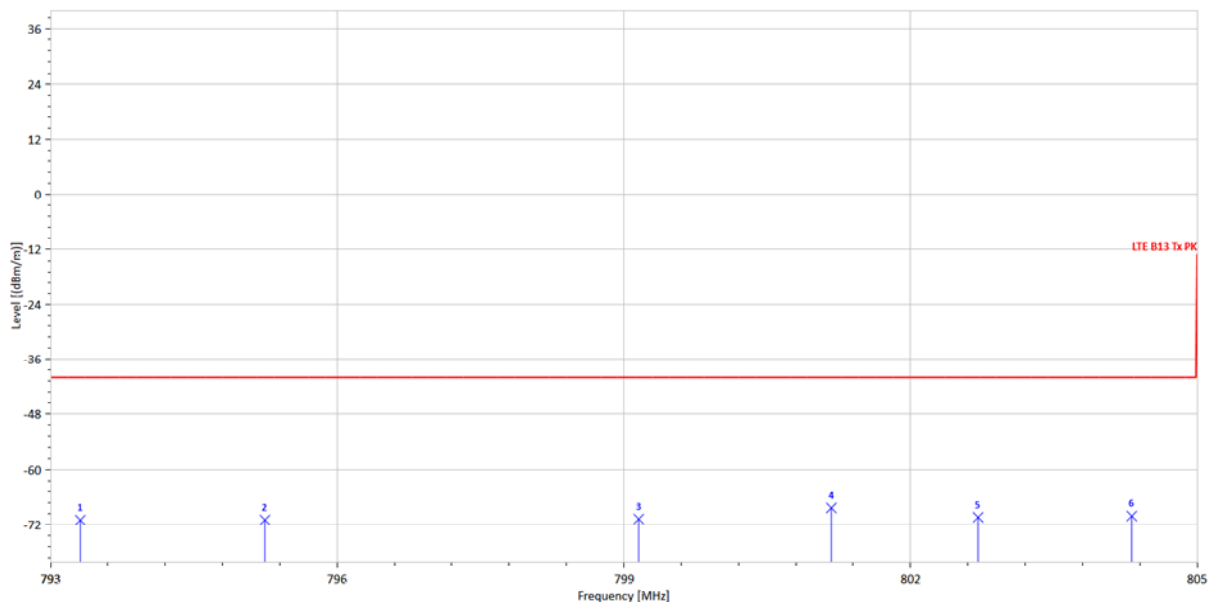
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Operation Mode :	LTEB13 5M QPSK 1.0	Test Date :	2018/1/20
Fundamental Frequency :	784.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



Freq.	Note	ERP/EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBd/dBi	Loss dB	@3m dBm/m	dB
793.31	S	-70.98	-72.09	5.21	-4.10	-40	-30.98
795.24	S	-70.95	-72.06	5.21	-4.10	-40	-30.95
799.16	S	-70.74	-71.85	5.22	-4.11	-40	-30.74
801.17	S	-68.35	-69.45	5.22	-4.11	-40	-28.35
802.71	S	-70.37	-71.46	5.21	-4.12	-40	-30.37
804.32	S	-70.11	-71.19	5.21	-4.12	-40	-30.11

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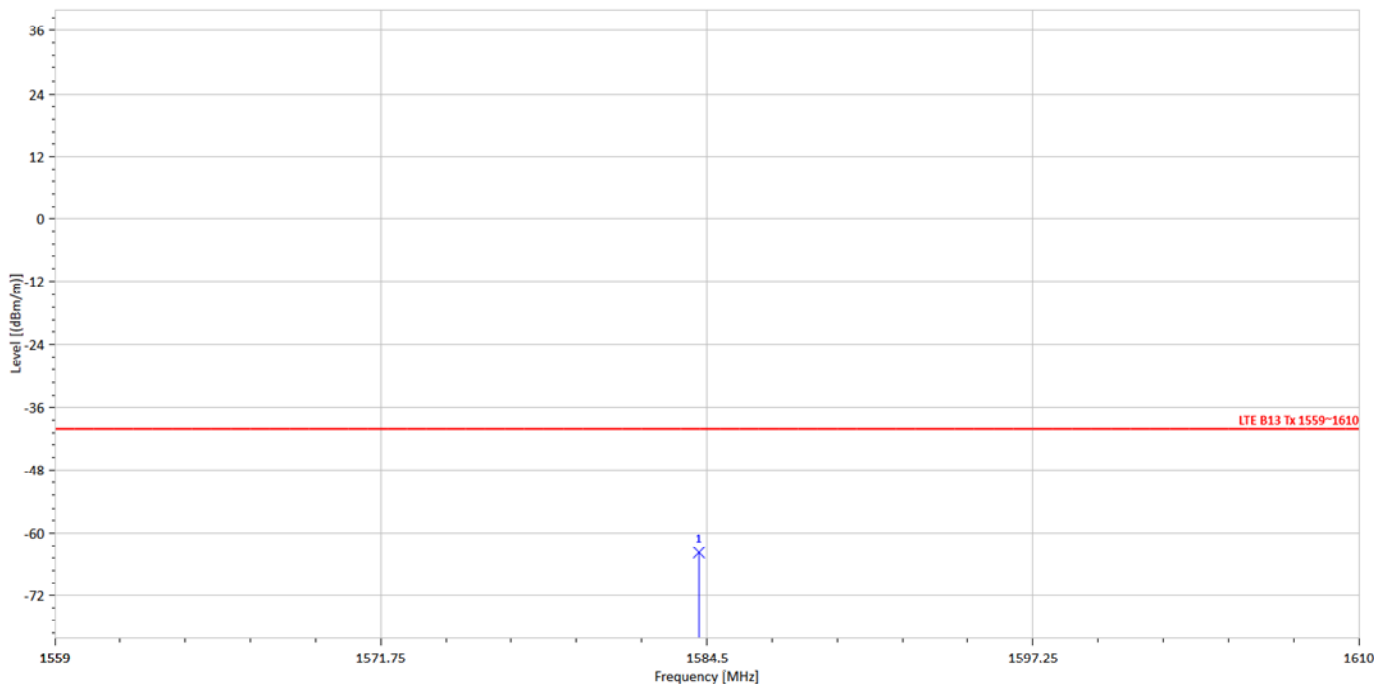
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Radiated Spurious Emission Measurement Result: LTE-Band 13 (inband measurement 1559~1610MHz)

Operation Mode :	LTEB13 5M QPSK 1.0	Test Date :	2018/2/21
Fundamental Frequency :	779.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP/EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBd/dBi	Loss dB	@3m dBm/m	dB
1584.19	S	-63.80	-63.79	6.30	-6.32	-40	-23.80

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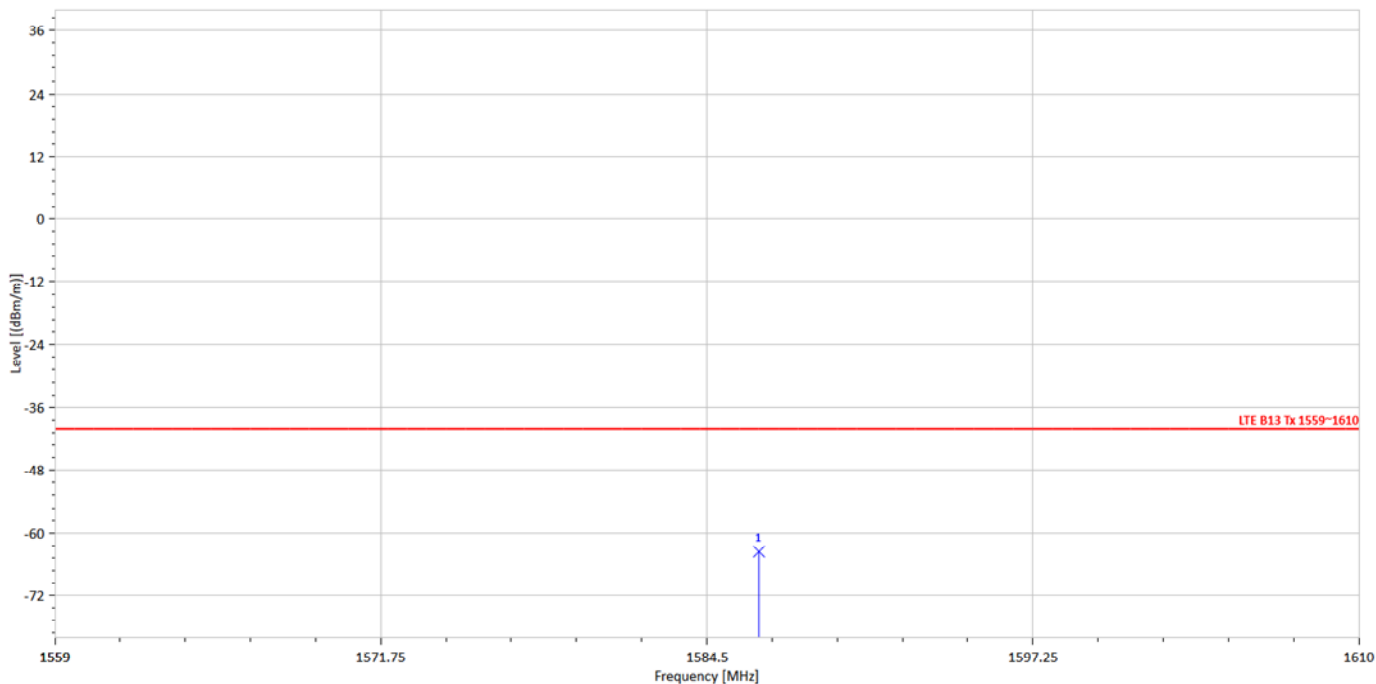
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Operation Mode :	LTEB13 5M QPSK 1.0	Test Date :	2018/2/21
Fundamental Frequency :	779.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



Freq.	Note	ERP/EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBd/dBi	Loss dB	@3m dBm/m	dB
1586.54	S	-63.62	-63.62	6.31	-6.32	-40	-23.62

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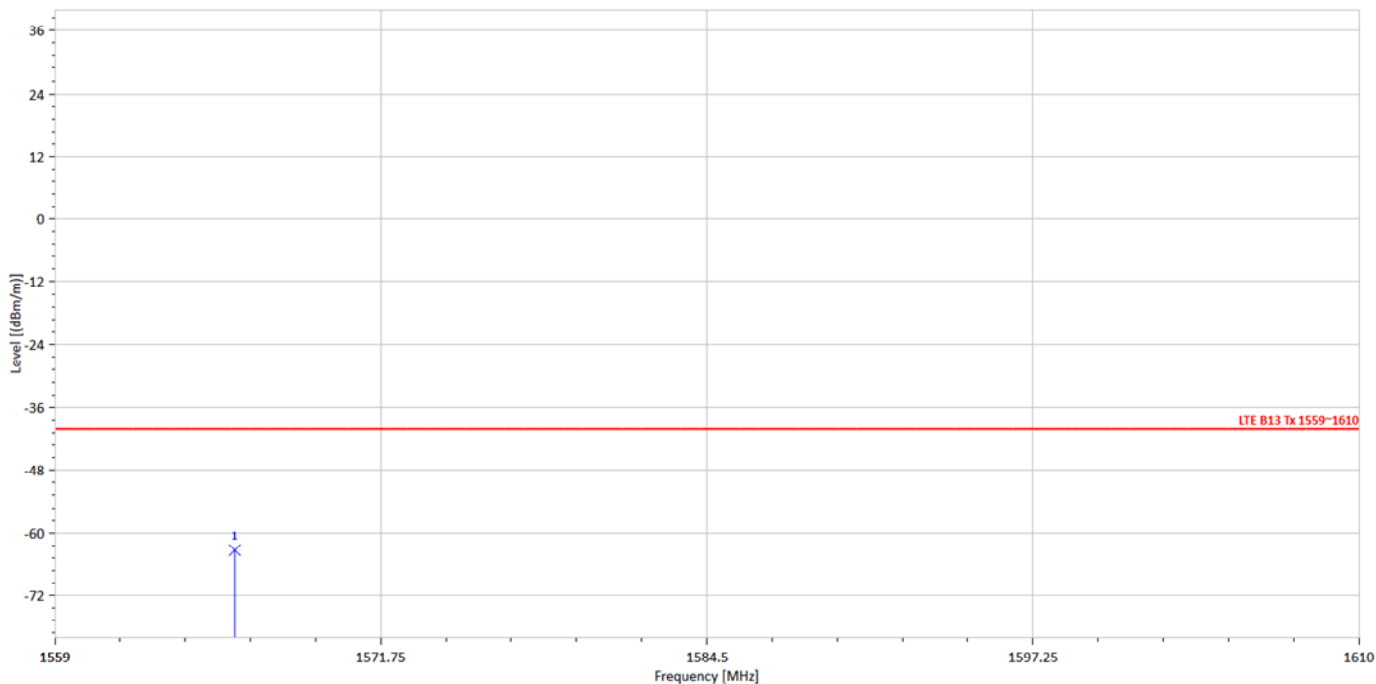
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Operation Mode :	LTEB13 5M QPSK 1.0	Test Date :	2018/2/21
Fundamental Frequency :	782 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP/EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBd/dBi	Loss dB	@3m dBm/m	dB
1566.04	S	-63.32	-63.27	6.23	-6.28	-40	-23.32

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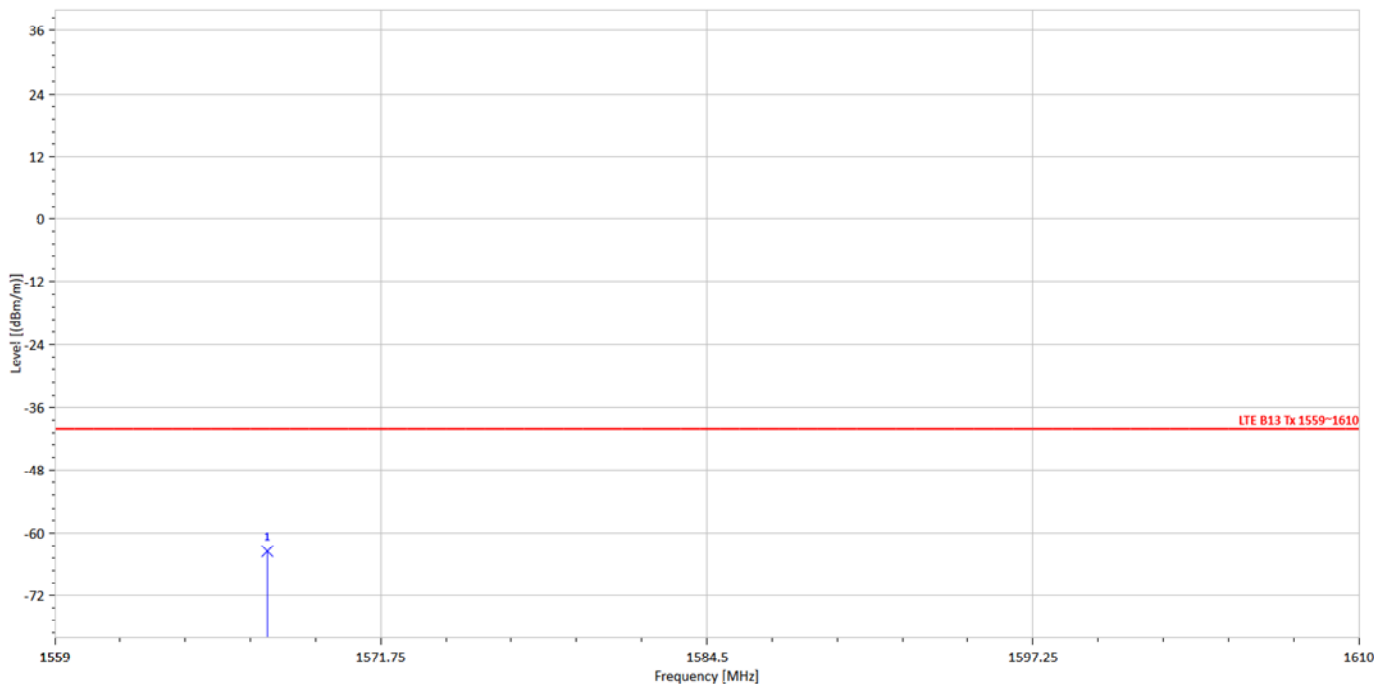
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Operation Mode :	LTEB13 5M QPSK 1.0	Test Date :	2018/2/21
Fundamental Frequency :	782 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



Freq.	Note	ERP/EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBd/dBi	Loss dB	@3m dBm/m	dB
1567.31	S	-63.54	-63.49	6.23	-6.28	-40	-23.54

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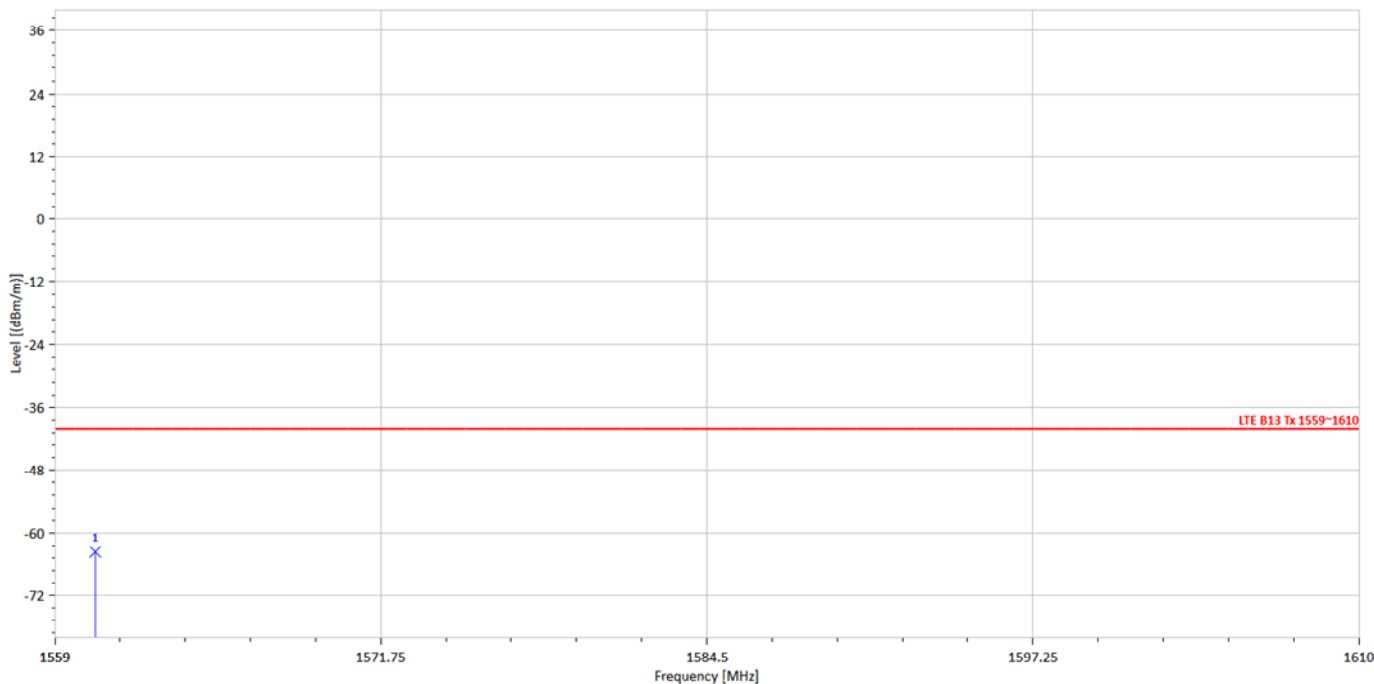
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Fundamental Frequency :	784.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH HIGH	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP/EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBd/dBi	Loss dB	@3m dBm/m	dB
1560.58	S	-63.68	-63.62	6.20	-6.26	-40	-23.68

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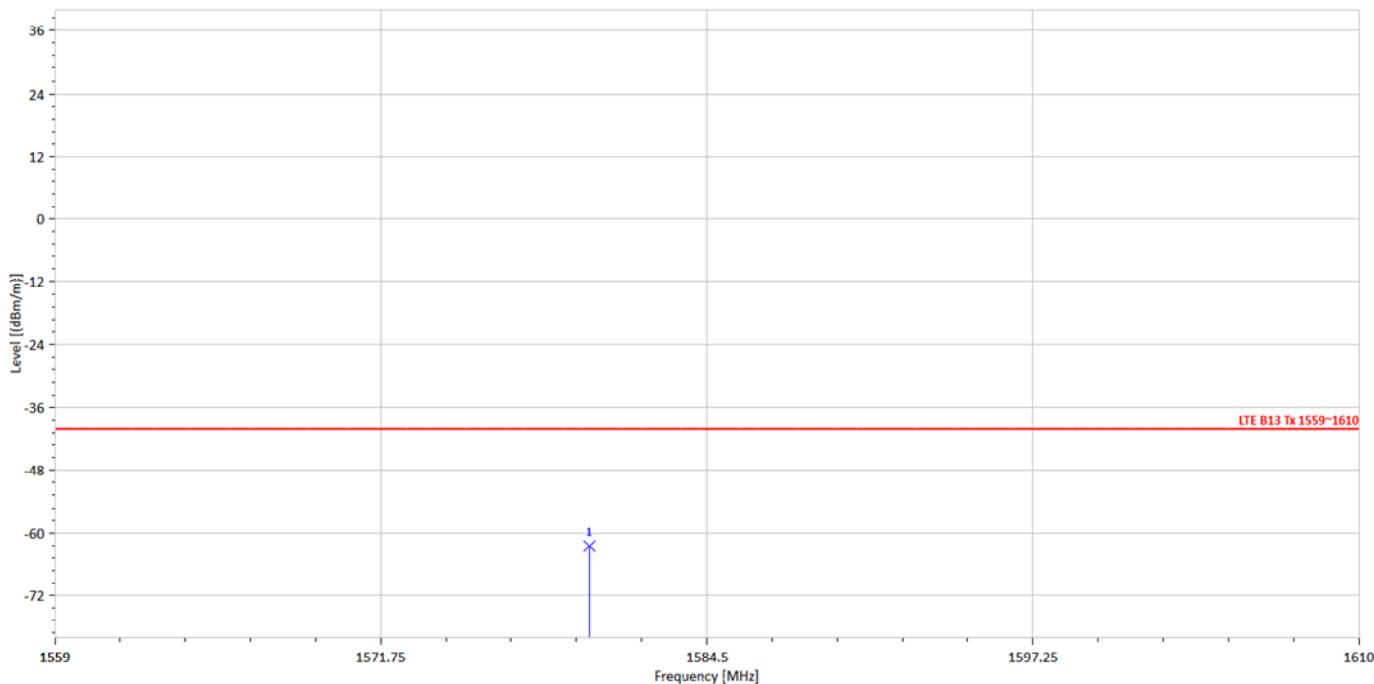
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Operation Mode :	LTEB13 5M QPSK 1.0	Test Date :	2018/2/21
Fundamental Frequency :	784.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH HIGH	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



Freq.	Note	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBd/dBi	dB	dBm/m	dB
1579.91	S	-62.54	-62.52	6.29	-6.31	-40	-22.54

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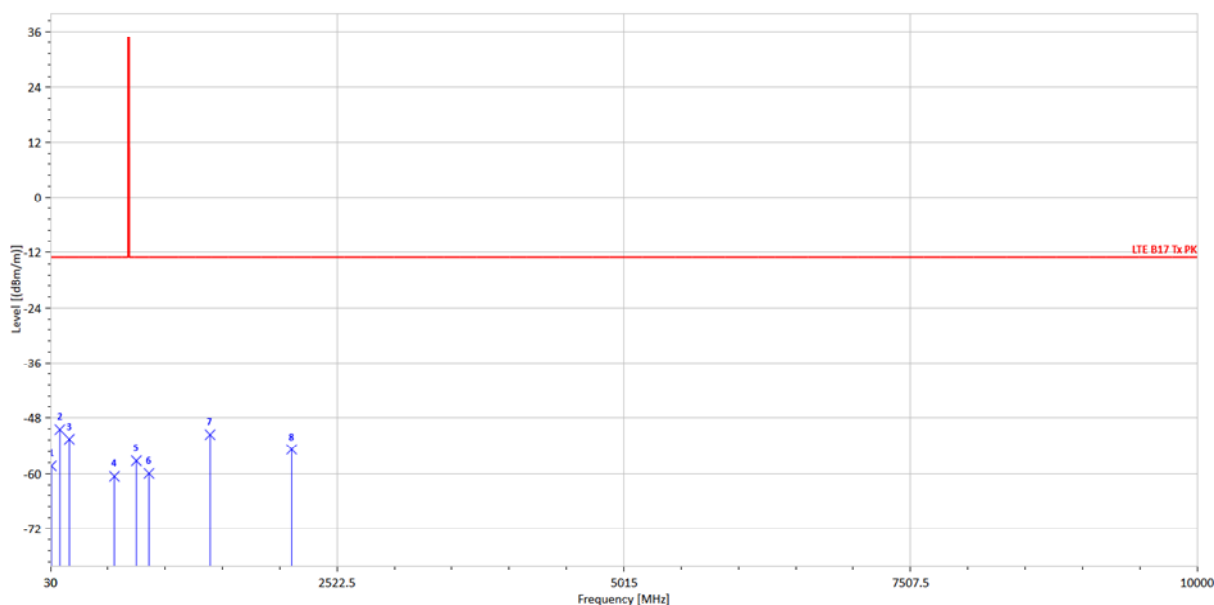
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Radiated Spurious Emission Measurement Result: LTE-Band 17

Operation Mode :	LTEB17 10M 16QAM 1.49	Test Date :	2018/1/19
Fundamental Frequency :	709 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq.	Note	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level	Gain	Loss	@ 3m	dB
37.76	S	-58.36	-41.59	-15.92	-0.85	-13	-45.36
111.48	S	-50.47	-45.45	-3.56	-1.46	-13	-37.47
193.93	S	-52.53	-54.57	4.00	-1.96	-13	-39.53
585.81	S	-60.59	-61.30	4.22	-3.51	-13	-47.59
776.90	S	-57.27	-58.42	5.19	-4.04	-13	-44.27
886.51	S	-59.96	-60.77	5.19	-4.38	-13	-46.96
1418.00	H	-51.56	-51.18	5.56	-5.94	-13	-38.56
2127.00	H	-54.80	-55.64	8.18	-7.33	-13	-41.80

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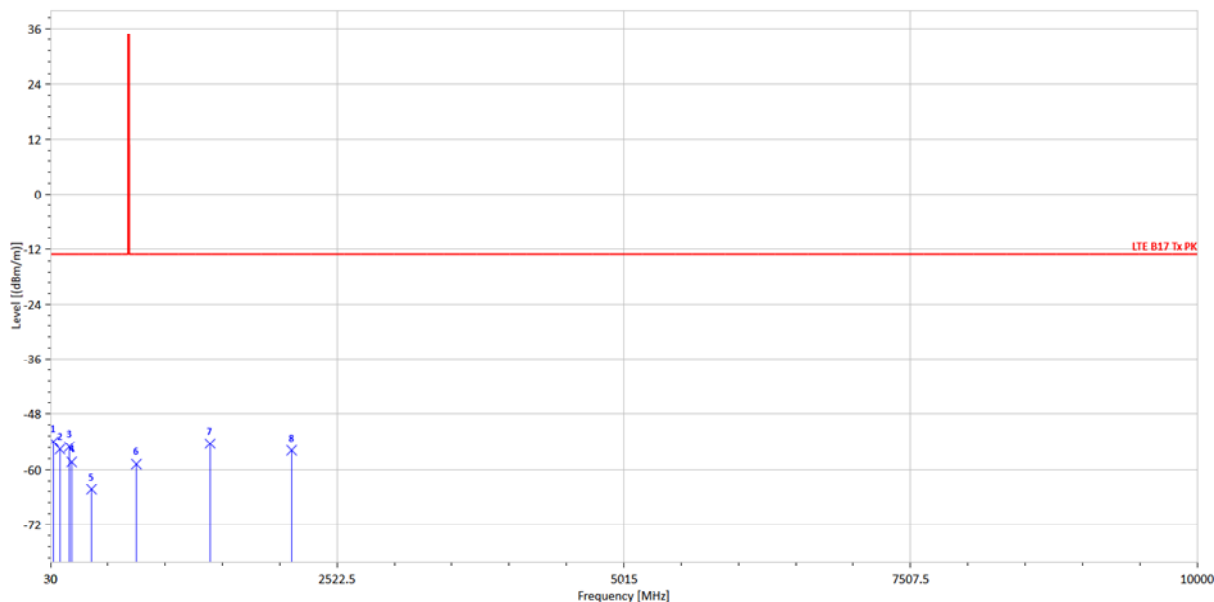
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f (886-2) 2298-0488

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Operation Mode :	LTEB17 10M 16QAM 1.49	Test Date :	2018/1/20
Fundamental Frequency :	709 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



Freq.	Note	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
55.22	S	-53.95	-47.86	-5.08	-1.00	-13	-40.95
112.45	S	-55.61	-50.62	-3.52	-1.46	-13	-42.61
193.93	S	-55.09	-57.13	4.00	-1.96	-13	-42.09
214.30	S	-58.37	-60.32	4.00	-2.06	-13	-45.37
386.96	S	-64.37	-64.82	3.26	-2.82	-13	-51.37
776.90	S	-58.85	-60.00	5.19	-4.04	-13	-45.85
1418.00	H	-54.39	-54.00	5.56	-5.94	-13	-41.39
2127.00	H	-55.88	-56.73	8.18	-7.33	-13	-42.88

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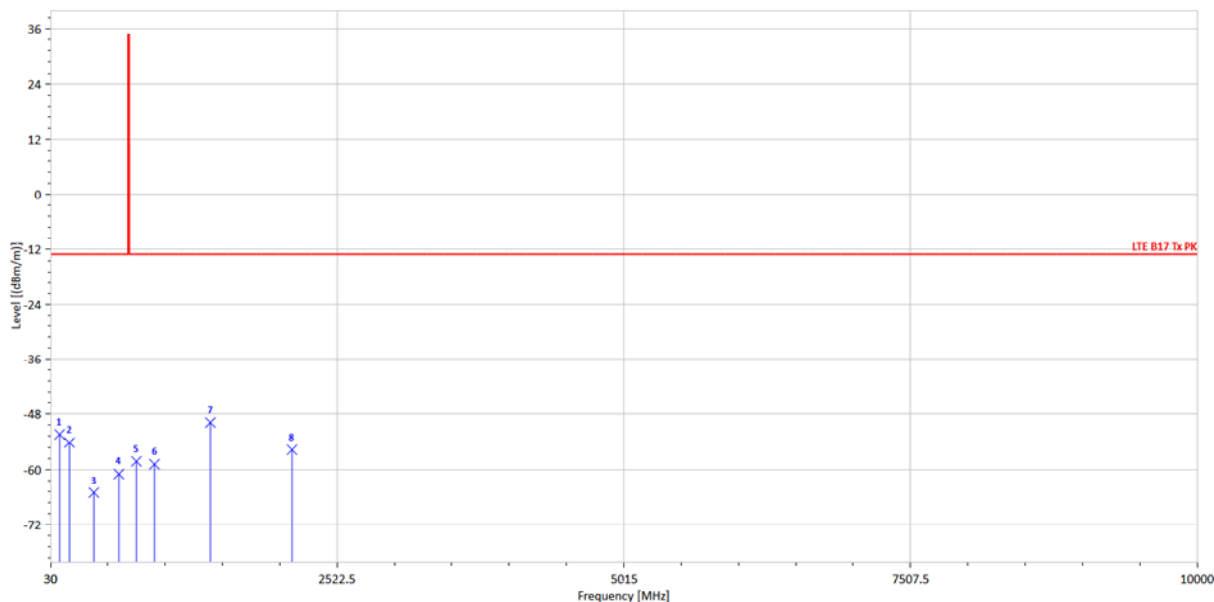
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Operation Mode :	LTEB17 10M 16QAM 1.49	Test Date :	2018/1/19
Fundamental Frequency :	710 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq.	Note	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
109.54	S	-52.36	-47.31	-3.60	-1.45	-13	-39.36
194.90	S	-54.17	-56.17	3.96	-1.96	-13	-41.17
407.33	S	-65.06	-65.42	3.26	-2.91	-13	-52.06
624.61	S	-60.98	-61.81	4.47	-3.64	-13	-47.98
776.90	S	-58.25	-59.40	5.19	-4.04	-13	-45.25
934.04	S	-58.86	-59.73	5.36	-4.48	-13	-45.86
1420.00	H	-49.82	-49.44	5.57	-5.95	-13	-36.82
2130.00	H	-55.76	-56.61	8.18	-7.34	-13	-42.76

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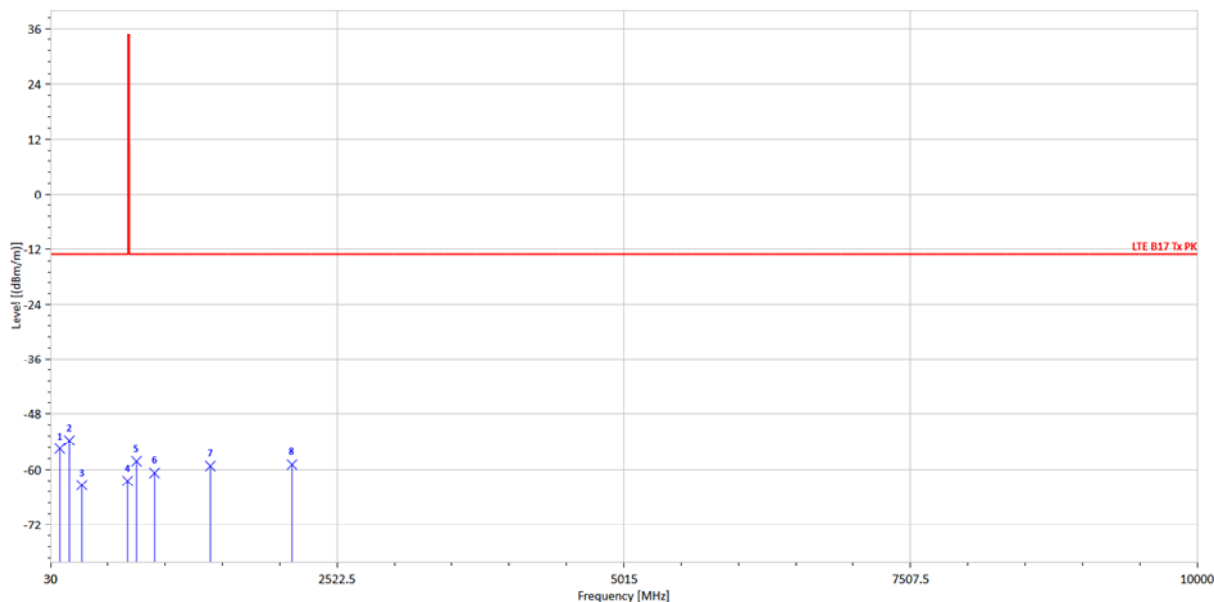
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Operation Mode :	LTEB17 10M 16QAM 1.49	Test Date :	2018/1/19
Fundamental Frequency :	710 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



Freq.	Note	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
111.48	S	-55.51	-50.50	-3.56	-1.46	-13	-42.51
193.93	S	-53.70	-55.74	4.00	-1.96	-13	-40.70
302.57	S	-63.41	-64.44	3.50	-2.47	-13	-50.41
700.27	S	-62.49	-63.73	5.06	-3.82	-13	-49.49
777.87	S	-58.24	-59.39	5.19	-4.04	-13	-45.24
935.01	S	-60.76	-61.63	5.36	-4.49	-13	-47.76
1420.00	H	-59.25	-58.87	5.57	-5.95	-13	-46.25
2130.00	H	-58.95	-59.80	8.18	-7.34	-13	-45.95

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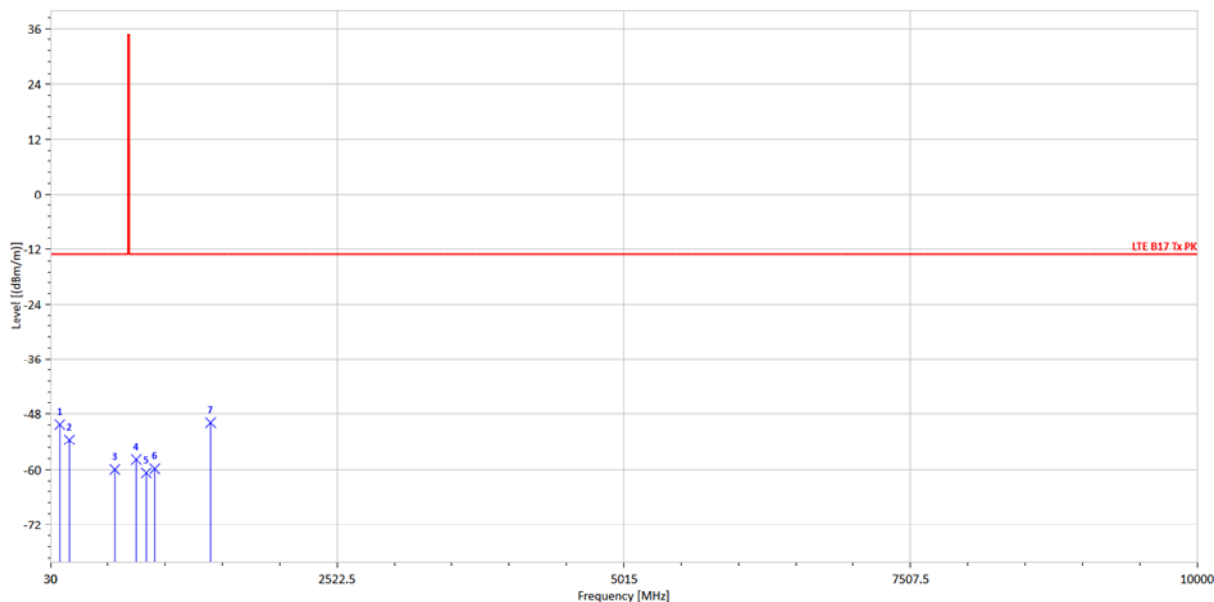
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Operation Mode :	LTEB17 10M 16QAM 1.49	Test Date :	2018/1/19
Fundamental Frequency :	711 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
111.48	S	-50.25	-45.24	-3.56	-1.46	-13	-37.25
194.90	S	-53.55	-55.55	3.96	-1.96	-13	-40.55
589.69	S	-59.98	-60.70	4.25	-3.53	-13	-46.98
775.93	S	-57.86	-59.02	5.19	-4.03	-13	-44.86
863.23	S	-60.71	-61.49	5.10	-4.32	-13	-47.71
935.98	S	-59.83	-60.70	5.36	-4.49	-13	-46.83
1422.00	H	-49.84	-49.46	5.58	-5.95	-13	-36.84

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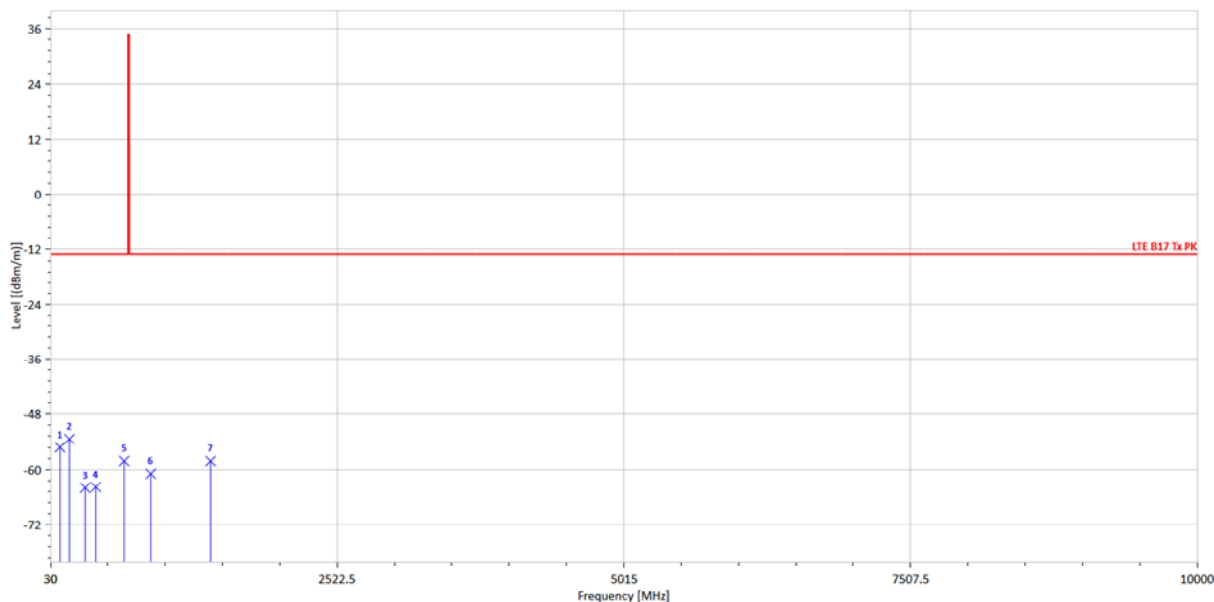
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Operation Mode :	LTEB17 10M 16QAM 1.49	Test Date :	2018/1/19
Fundamental Frequency :	711 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



Freq.	Note	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
112.45	S	-55.19	-50.20	-3.52	-1.46	-13	-42.19
193.93	S	-53.38	-55.42	4.00	-1.96	-13	-40.38
331.67	S	-64.00	-64.85	3.46	-2.61	-13	-51.00
423.82	S	-63.84	-64.28	3.40	-2.96	-13	-50.84
670.20	S	-58.19	-59.25	4.80	-3.74	-13	-45.19
902.03	S	-60.92	-61.76	5.25	-4.41	-13	-47.92
1422.00	H	-58.20	-57.83	5.58	-5.95	-13	-45.20

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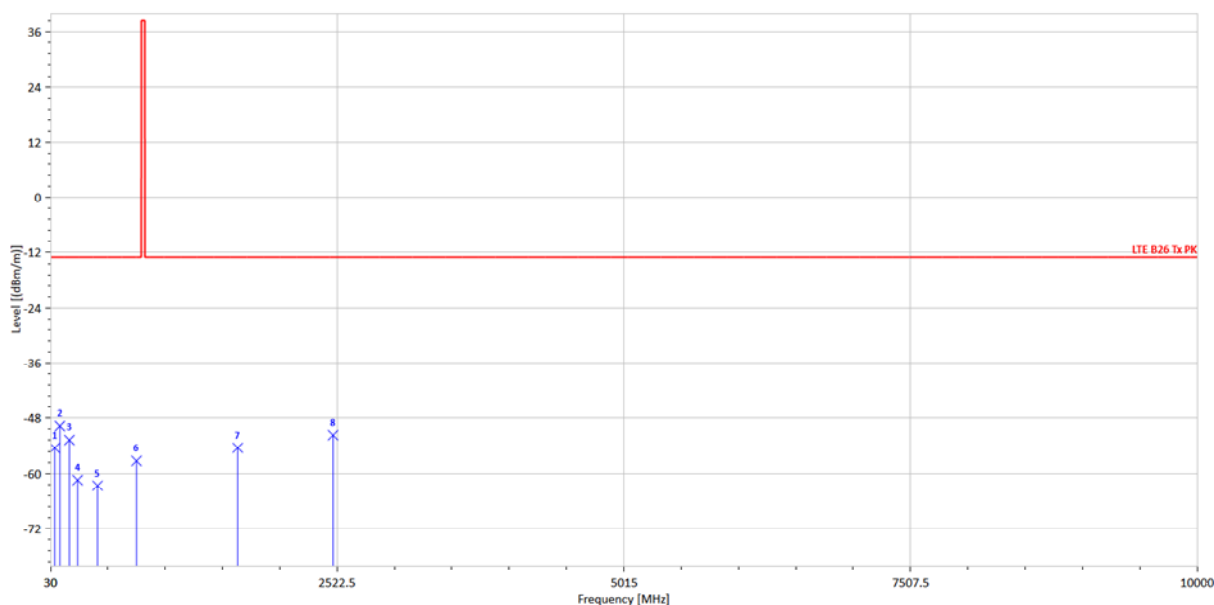
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Radiated Spurious Emission Measurement Result: LTE-Band 26 (The Worst Case)

Operation Mode :	LTEB26 10M QPSK 1.0	Test Date :	2018/1/19
Fundamental Frequency :	829 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP/EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBd/dBi	Loss dB	@3m dBm/m	dB
66.86	S	-54.45	-51.01	-2.33	-1.11	-13	-41.45
111.48	S	-49.70	-44.68	-3.56	-1.46	-13	-36.70
193.93	S	-52.71	-54.75	4.00	-1.96	-13	-39.71
265.71	S	-61.42	-61.75	2.65	-2.32	-13	-48.42
439.34	S	-62.65	-63.18	3.53	-3.01	-13	-49.65
777.87	S	-57.30	-58.45	5.19	-4.04	-13	-44.30
1658.00	H	-54.43	-54.57	6.61	-6.47	-13	-41.43
2487.00	H	-51.65	-52.38	8.54	-7.81	-13	-38.65

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

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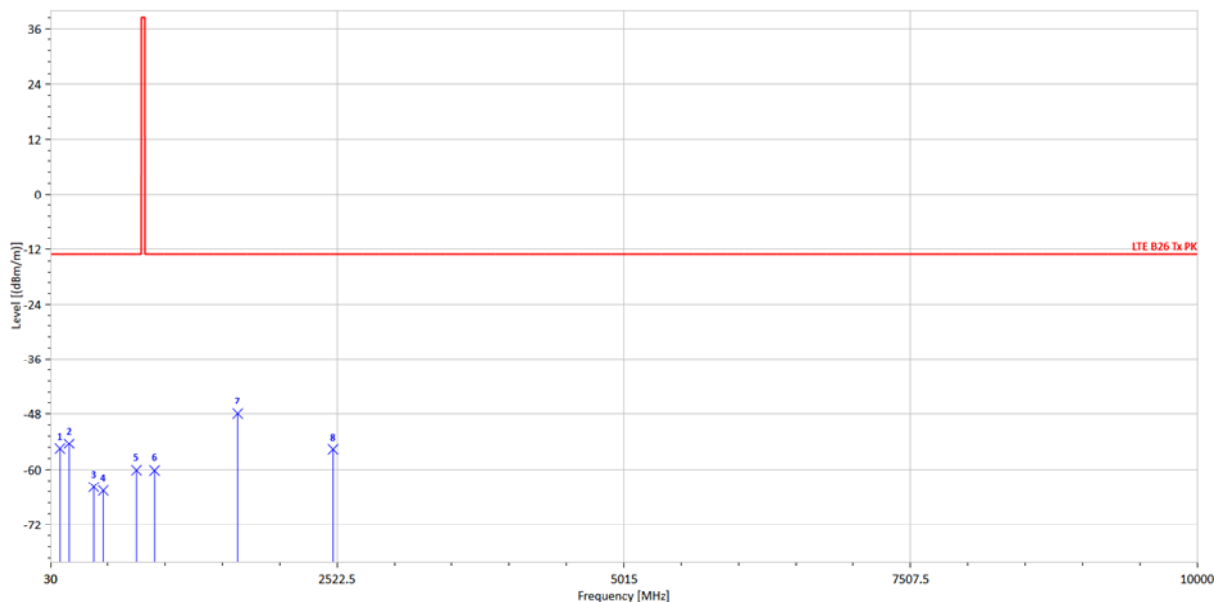
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Operation Mode :	LTEB26 10M QPSK 1.0	Test Date :	2018/1/19
Fundamental Frequency :	829 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



Freq.	Note	ERP/EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBd/dBi	Loss dB	@3m dBm/m	dB
112.45	S	-55.54	-50.55	-3.52	-1.46	-13	-42.54
191.99	S	-54.40	-56.51	4.07	-1.95	-13	-41.40
406.36	S	-63.84	-64.19	3.25	-2.90	-13	-50.84
488.81	S	-64.63	-65.39	3.95	-3.19	-13	-51.63
777.87	S	-60.15	-61.31	5.19	-4.04	-13	-47.15
935.01	S	-60.21	-61.09	5.36	-4.49	-13	-47.21
1658.00	H	-47.90	-48.04	6.61	-6.47	-13	-34.90
2487.00	H	-55.71	-56.43	8.54	-7.81	-13	-42.71

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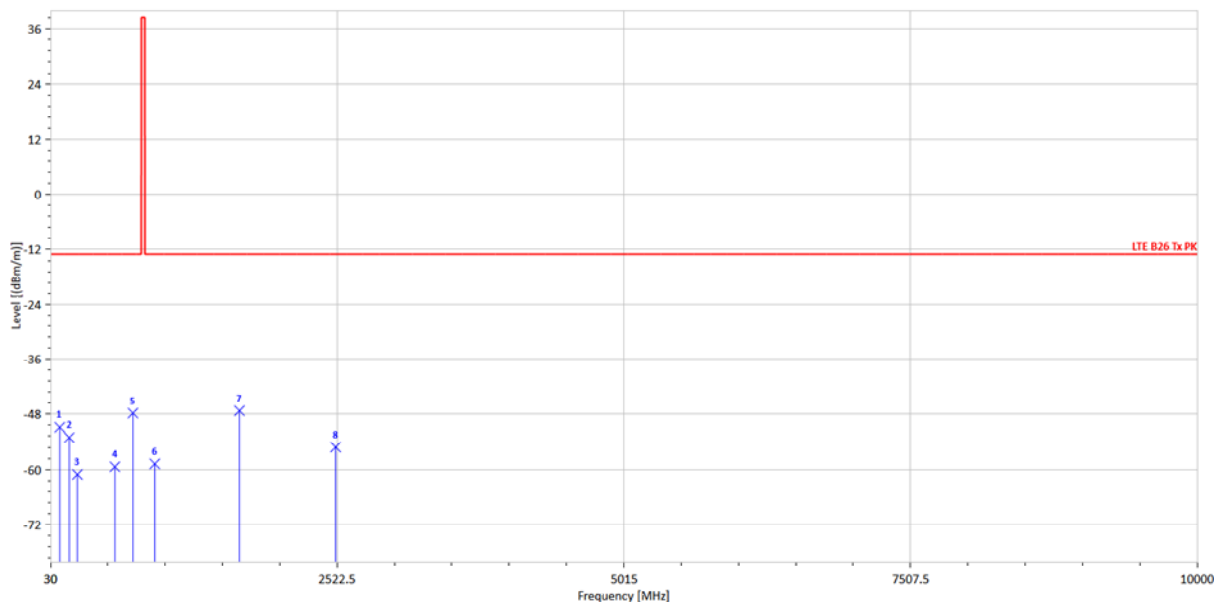
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Operation Mode :	LTEB26 10M QPSK 1.0	Test Date :	2018/1/19
Fundamental Frequency :	836.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP/EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBd/dBi	Loss dB	@3m dBm/m	dB
110.51	S	-50.82	-45.78	-3.59	-1.45	-13	-37.82
192.96	S	-53.05	-55.13	4.03	-1.95	-13	-40.05
263.77	S	-61.05	-61.19	2.45	-2.32	-13	-48.05
589.69	S	-59.40	-60.12	4.25	-3.53	-13	-46.40
746.83	S	-47.78	-49.01	5.15	-3.93	-13	-34.78
936.95	S	-58.78	-59.65	5.37	-4.49	-13	-45.78
1673.00	H	-47.26	-47.43	6.68	-6.50	-13	-34.26
2509.50	H	-55.17	-55.89	8.56	-7.84	-13	-42.17

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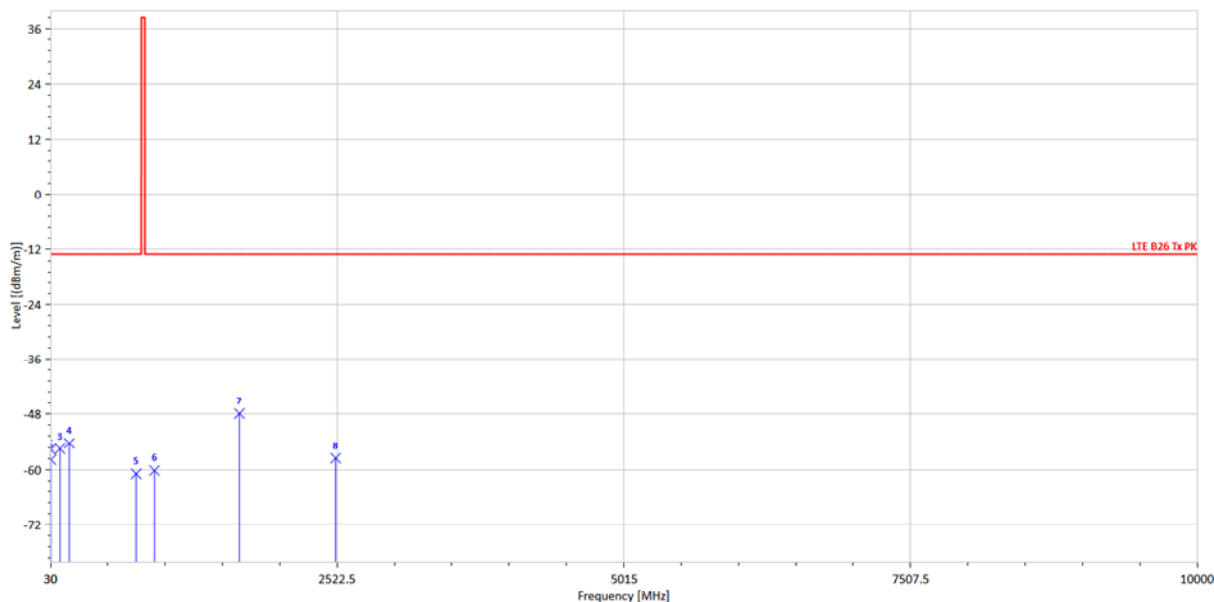
t (886-2) 2299-3279

f (886-2) 2298-0488

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Operation Mode :	LTEB26 10M QPSK 1.0	Test Date :	2018/1/19
Fundamental Frequency :	836.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



Freq.	Note	ERP/EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBd/dBi	Loss dB	@3m dBm/m	dB
31.94	S	-55.68	-34.03	-20.82	-0.83	-13	-42.68
34.85	S	-57.90	-38.77	-18.29	-0.84	-13	-44.90
112.45	S	-55.50	-50.51	-3.52	-1.46	-13	-42.50
192.96	S	-54.31	-56.39	4.03	-1.95	-13	-41.31
774.96	S	-60.90	-62.06	5.19	-4.03	-13	-47.90
934.04	S	-60.19	-61.07	5.36	-4.48	-13	-47.19
1673.00	H	-47.88	-48.05	6.68	-6.50	-13	-34.88
2509.50	H	-57.55	-58.28	8.56	-7.84	-13	-44.55

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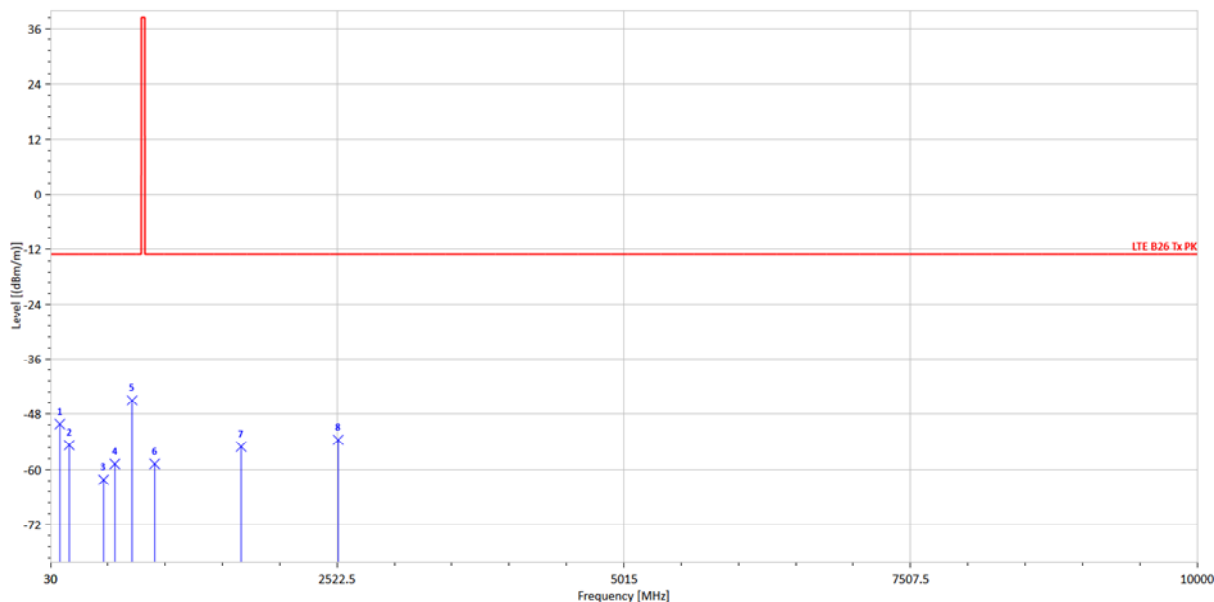
t (886-2) 2299-3279

f (886-2) 2298-0488

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Operation Mode :	LTEB26 10M QPSK 1.0	Test Date :	2018/1/19
Fundamental Frequency :	844 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP/EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBd/dBi	Loss dB	@3m dBm/m	dB
111.48	S	-50.14	-45.12	-3.56	-1.46	-13	-37.14
192.96	S	-54.73	-56.81	4.03	-1.95	-13	-41.73
491.72	S	-62.22	-63.00	3.97	-3.20	-13	-49.22
589.69	S	-58.81	-59.53	4.25	-3.53	-13	-45.81
740.04	S	-44.99	-46.22	5.14	-3.91	-13	-31.99
935.98	S	-58.79	-59.67	5.36	-4.49	-13	-45.79
1688.00	H	-55.08	-55.28	6.74	-6.53	-13	-42.08
2532.00	H	-53.57	-54.29	8.59	-7.87	-13	-40.57

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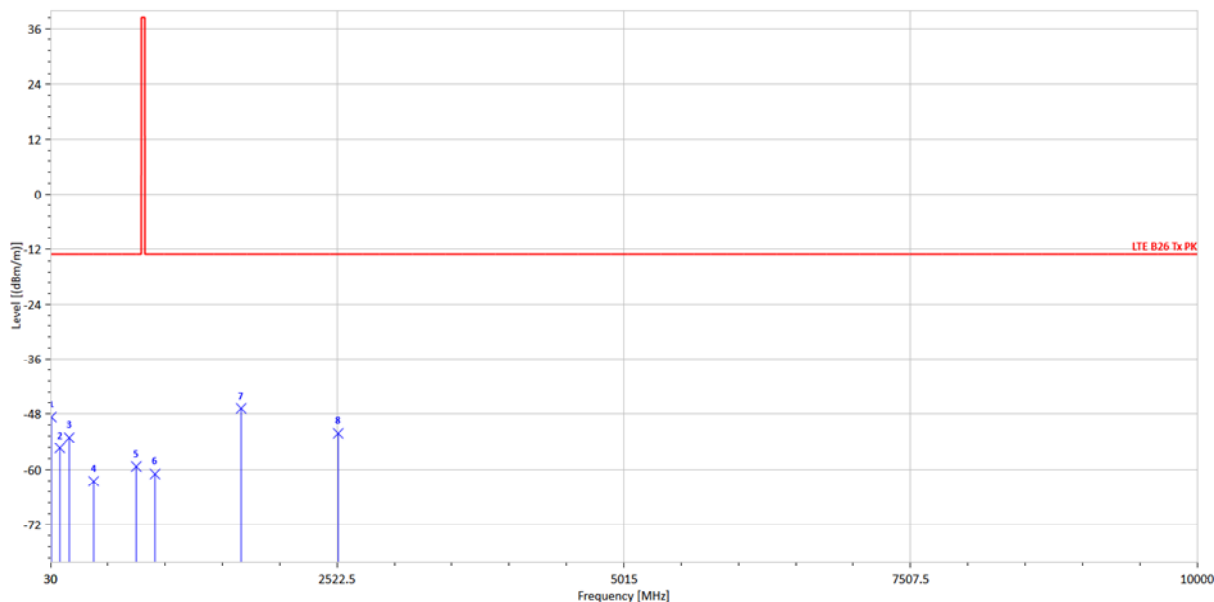
t (886-2) 2299-3279

f (886-2) 2298-0488

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Operation Mode :	LTEB26 10M QPSK 1.0	Test Date :	2018/1/19
Fundamental Frequency :	844 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



Freq.	Note	ERP/EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBd/dBi	Loss dB	@3m dBm/m	dB
37.76	S	-48.64	-31.87	-15.92	-0.85	-13	-35.64
111.48	S	-55.38	-50.37	-3.56	-1.46	-13	-42.38
192.96	S	-53.05	-55.12	4.03	-1.95	-13	-40.05
405.39	S	-62.56	-62.91	3.25	-2.90	-13	-49.56
775.93	S	-59.35	-60.51	5.19	-4.03	-13	-46.35
938.89	S	-60.96	-61.83	5.37	-4.50	-13	-47.96
1688.00	H	-46.81	-47.02	6.74	-6.53	-13	-33.81
2532.00	H	-52.11	-52.83	8.59	-7.87	-13	-39.11

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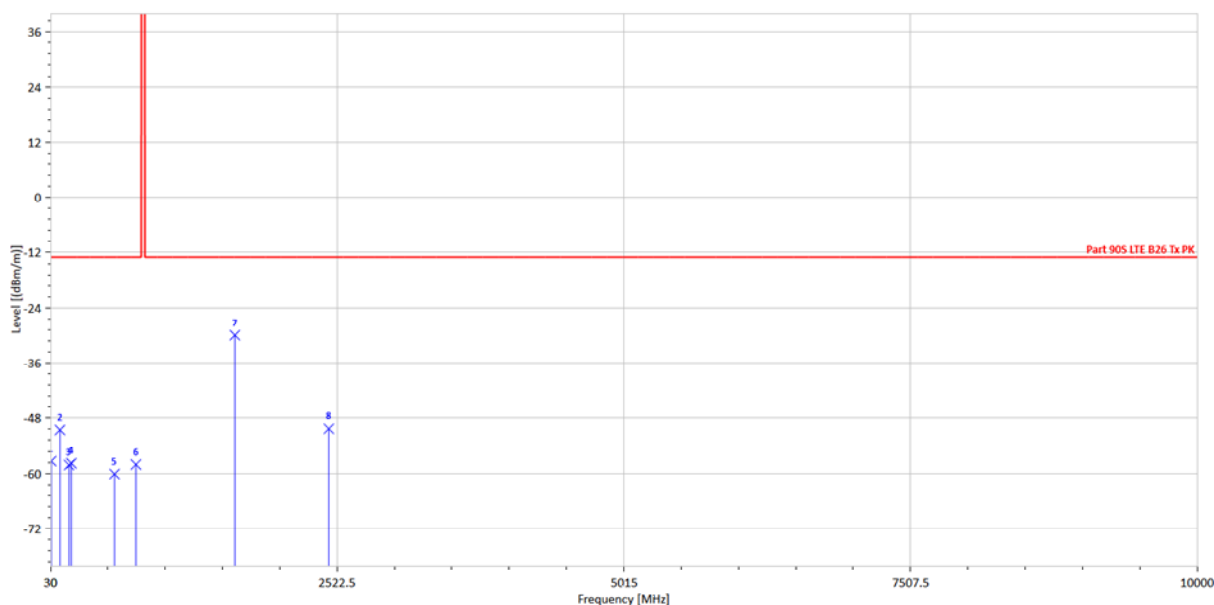
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Radiated Spurious Emission Measurement Result: LTE-Band 26 for Part 90S

Operation Mode :	LTEB26 1.4M QPSK 1.0	Test Date :	2018/1/20
Fundamental Frequency :	814.7 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP/EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBd/dBi	Loss dB	@3m dBm/m	dB
36.79	S	-57.34	-39.79	-16.71	-0.85	-13	-44.34
112.45	S	-50.53	-45.54	-3.52	-1.46	-13	-37.53
191.02	S	-58.17	-60.33	4.10	-1.95	-13	-45.17
211.39	S	-57.81	-59.77	4.00	-2.05	-13	-44.81
586.78	S	-60.12	-60.83	4.23	-3.52	-13	-47.12
773.02	S	-58.07	-59.23	5.19	-4.02	-13	-45.07
1633.40	H	-29.97	-30.06	6.51	-6.42	-13	-16.97
2450.10	H	-50.28	-51.01	8.50	-7.77	-13	-37.28

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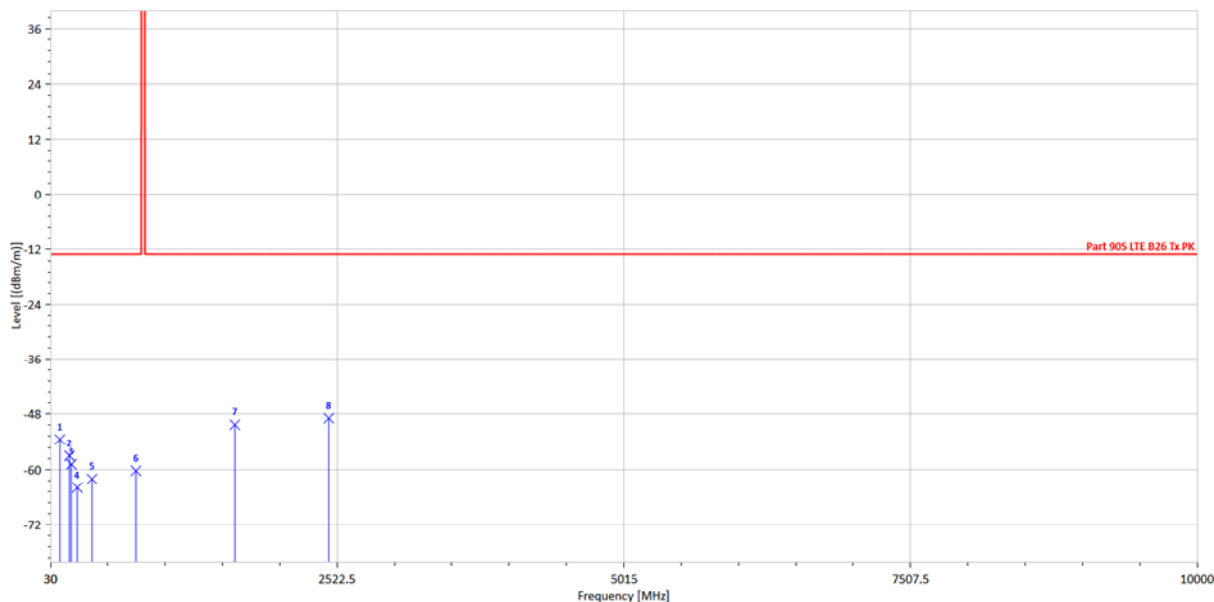
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f (886-2) 2298-0488

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Operation Mode :	LTEB26 1.4M QPSK 1.0	Test Date :	2018/1/20
Fundamental Frequency :	814.7 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



Freq.	Note	ERP/EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBd/dBi	Loss dB	@3m dBm/m	dB
111.48	S	-53.46	-48.44	-3.56	-1.46	-13	-40.46
194.90	S	-57.03	-59.03	3.96	-1.96	-13	-44.03
211.39	S	-58.89	-60.85	4.00	-2.05	-13	-45.89
262.80	S	-63.96	-64.00	2.35	-2.31	-13	-50.96
390.84	S	-62.05	-62.46	3.24	-2.83	-13	-49.05
773.02	S	-60.27	-61.44	5.19	-4.02	-13	-47.27
1633.40	H	-50.29	-50.38	6.51	-6.42	-13	-37.29
2450.10	H	-48.89	-49.62	8.50	-7.77	-13	-35.89

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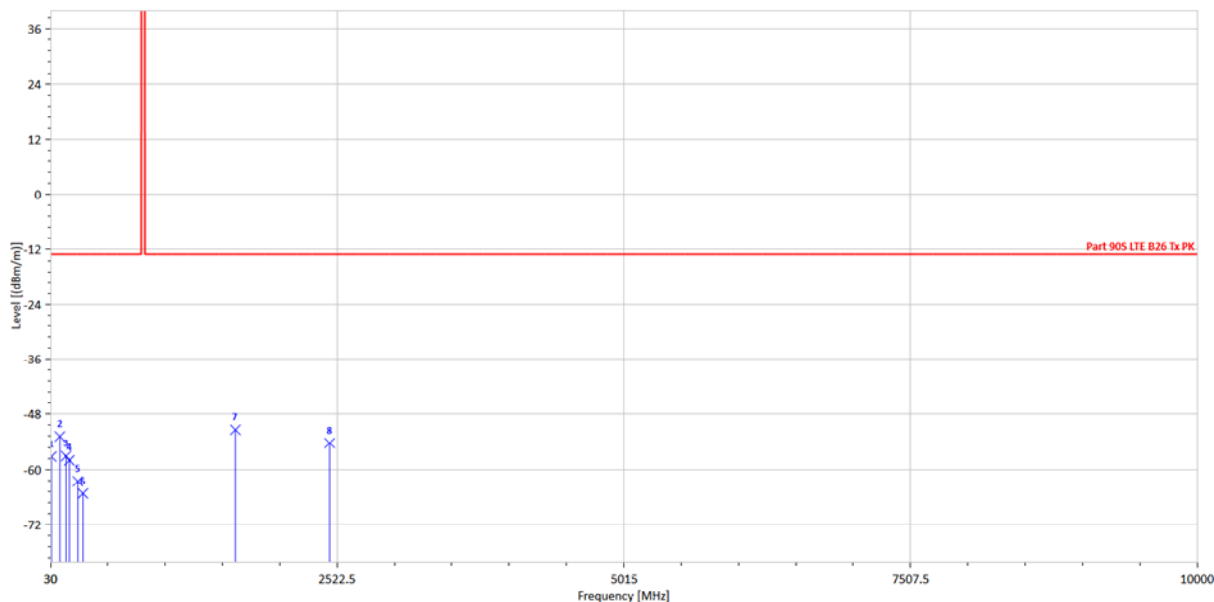
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Operation Mode :	LTEB26 1.4M QPSK 1.0	Test Date :	2018/1/20
Fundamental Frequency :	819 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBd/dBi	dB	dBm/m	dB
37.76	S	-57.22	-40.45	-15.92	-0.85	-13	-44.22
111.48	S	-52.82	-47.80	-3.56	-1.46	-13	-39.82
165.80	S	-57.11	-57.36	2.05	-1.80	-13	-44.11
193.93	S	-58.03	-60.07	4.00	-1.96	-13	-45.03
267.65	S	-62.58	-63.10	2.85	-2.33	-13	-49.58
312.27	S	-65.24	-66.20	3.49	-2.52	-13	-52.24
1638.00	H	-51.37	-51.47	6.53	-6.43	-13	-38.37
2457.00	H	-54.27	-55.00	8.51	-7.78	-13	-41.27

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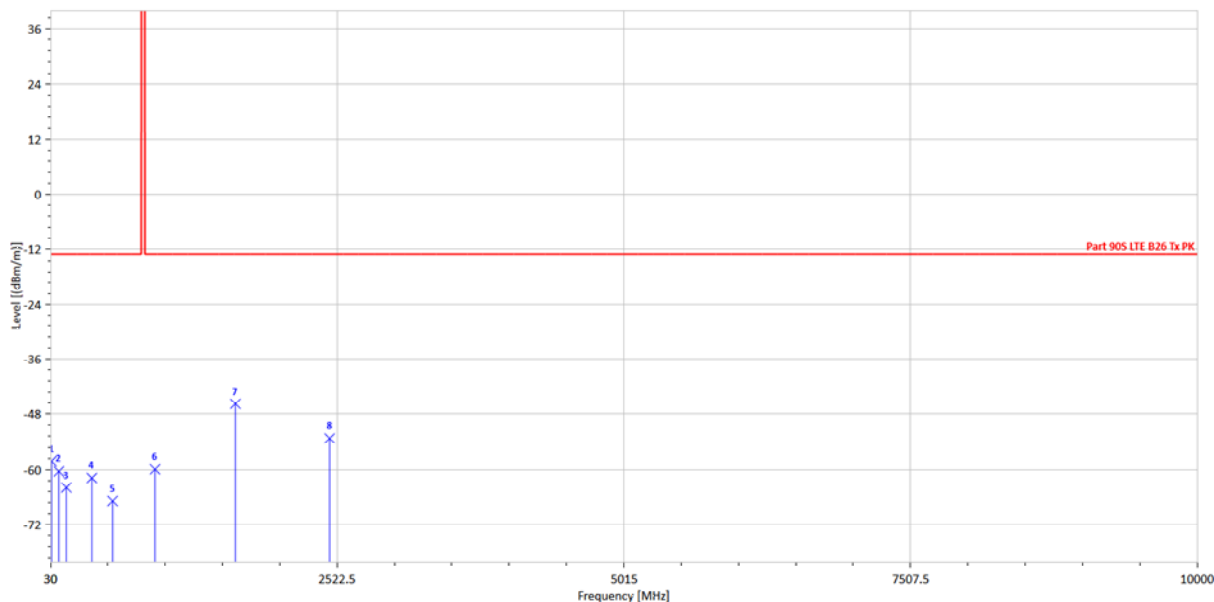
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f (886-2) 2298-0488

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Operation Mode :	LTEB26 1.4M QPSK 1.0	Test Date :	2018/1/20
Fundamental Frequency :	819 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



Freq.	Note	ERP/EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBd/dBi	Loss dB	@3m dBm/m	dB
38.73	S	-58.23	-42.24	-15.13	-0.85	-13	-45.23
102.75	S	-60.38	-55.57	-3.41	-1.40	-13	-47.38
167.74	S	-63.96	-64.43	2.29	-1.82	-13	-50.96
389.87	S	-61.83	-62.25	3.25	-2.83	-13	-48.83
570.29	S	-66.89	-67.54	4.11	-3.46	-13	-53.89
938.89	S	-59.93	-60.81	5.37	-4.50	-13	-46.93
1638.00	H	-45.74	-45.84	6.53	-6.43	-13	-32.74
2457.00	H	-53.21	-53.94	8.51	-7.78	-13	-40.21

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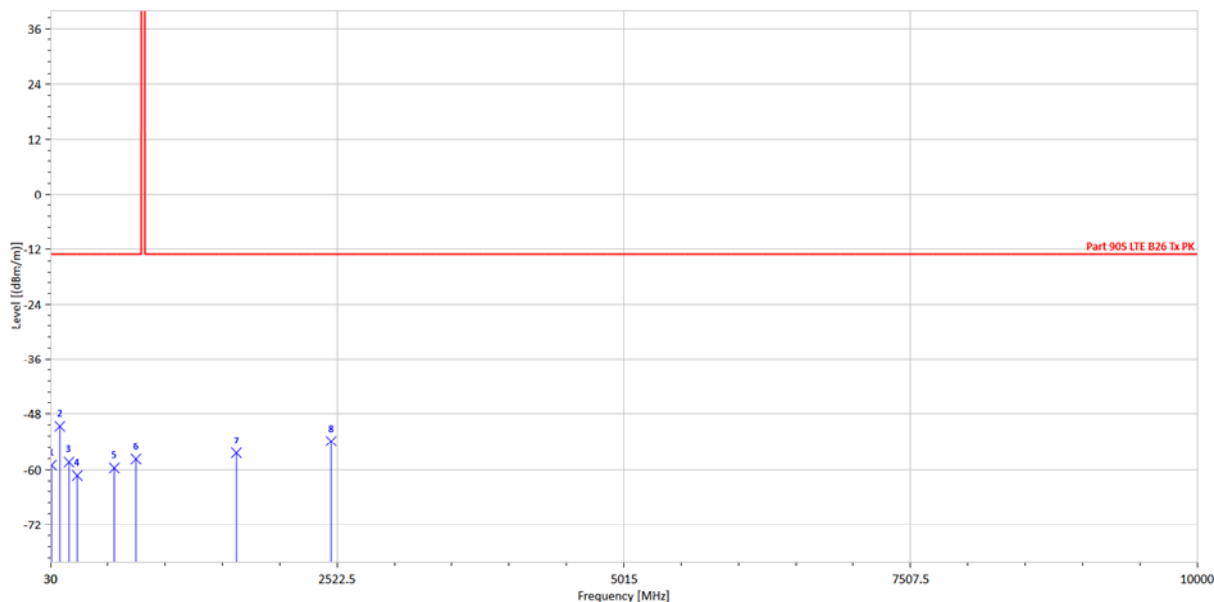
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Operation Mode :	LTEB26 1.4M QPSK 1.0	Test Date :	2018/1/20
Fundamental Frequency :	823.3 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBd/dBi	dB	dBm/m	dB
38.73	S	-59.05	-43.07	-15.13	-0.85	-13	-46.05
111.48	S	-50.61	-45.60	-3.56	-1.46	-13	-37.61
191.02	S	-58.40	-60.56	4.10	-1.95	-13	-45.40
262.80	S	-61.27	-61.31	2.35	-2.31	-13	-48.27
584.84	S	-59.66	-60.36	4.21	-3.51	-13	-46.66
773.02	S	-57.75	-58.92	5.19	-4.02	-13	-44.75
1646.60	H	-56.42	-56.54	6.57	-6.45	-13	-43.42
2469.90	H	-53.84	-54.57	8.52	-7.79	-13	-40.84

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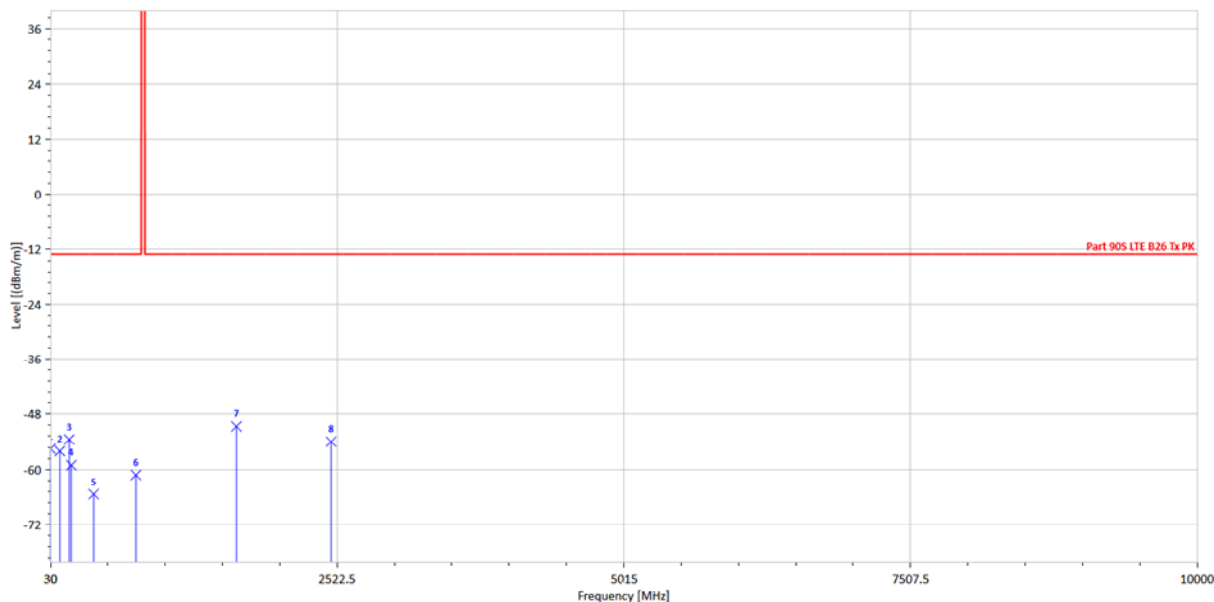
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Operation Mode :	LTEB26 1.4M QPSK 1.0	Test Date :	2018/1/20
Fundamental Frequency :	823.3 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



Freq.	Note	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBd/dBi	dB	dBm/m	dB
30.97	S	-55.53	-33.05	-21.66	-0.82	-13	-42.53
111.48	S	-56.04	-51.03	-3.56	-1.46	-13	-43.04
192.96	S	-53.48	-55.56	4.03	-1.95	-13	-40.48
211.39	S	-59.08	-61.04	4.00	-2.05	-13	-46.08
405.39	S	-65.40	-65.75	3.25	-2.90	-13	-52.40
773.02	S	-61.18	-62.35	5.19	-4.02	-13	-48.18
1646.60	H	-50.64	-50.76	6.57	-6.45	-13	-37.64
2469.90	H	-53.97	-54.70	8.52	-7.79	-13	-40.97

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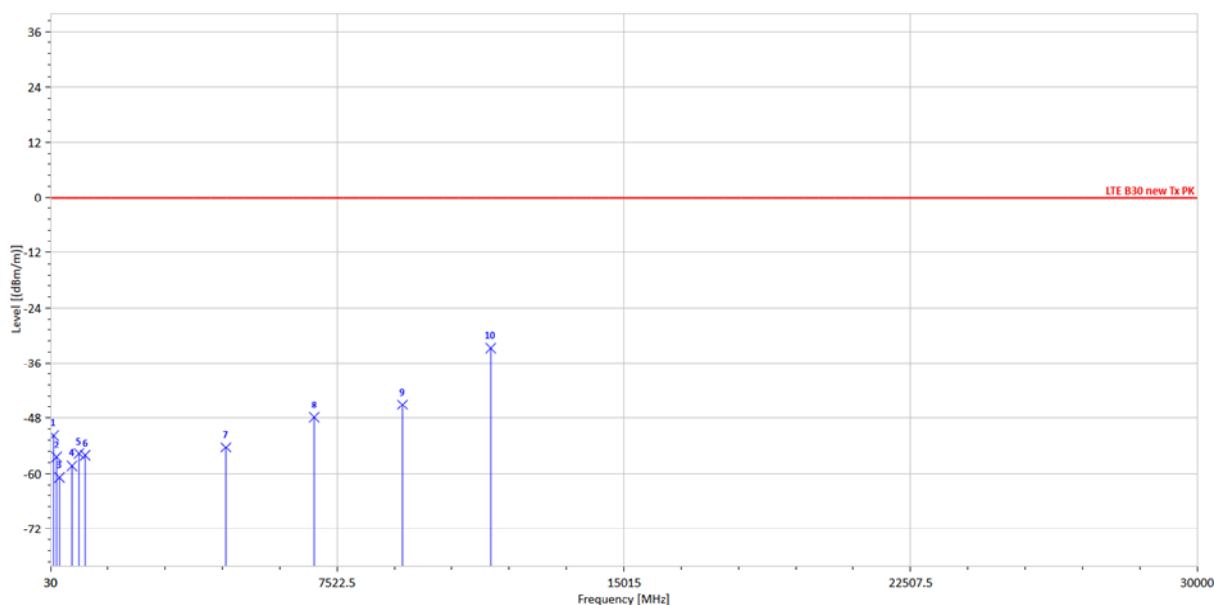
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Radiated Spurious Emission Measurement Result: LTE-Band 30

Operation Mode :	LTEB30 5M 16QAM 1.0	Test Date :	2018/1/20
Fundamental Frequency :	2307.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP/EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBd/dBi	Loss dB	@3m dBm/m	dB
111.48	S	-51.74	-48.68	-1.59	-1.46	-40	-11.74
190.05	S	-56.47	-60.42	5.88	-1.94	-40	-16.47
265.71	S	-60.83	-63.49	4.98	-2.32	-40	-20.83
591.63	S	-58.38	-61.74	6.90	-3.54	-40	-18.38
775.93	S	-55.75	-59.46	7.74	-4.03	-40	-15.75
936.95	S	-56.12	-59.58	7.95	-4.49	-40	-16.12
4615.00	H	-54.34	-57.30	12.58	-9.61	-13	-41.34
6922.50	H	-47.83	-48.67	12.05	-11.21	-13	-34.83
9230.00	H	-45.07	-44.32	11.57	-12.32	-13	-32.07
11537.50	H	-32.74	-30.61	11.50	-13.63	-13	-19.74

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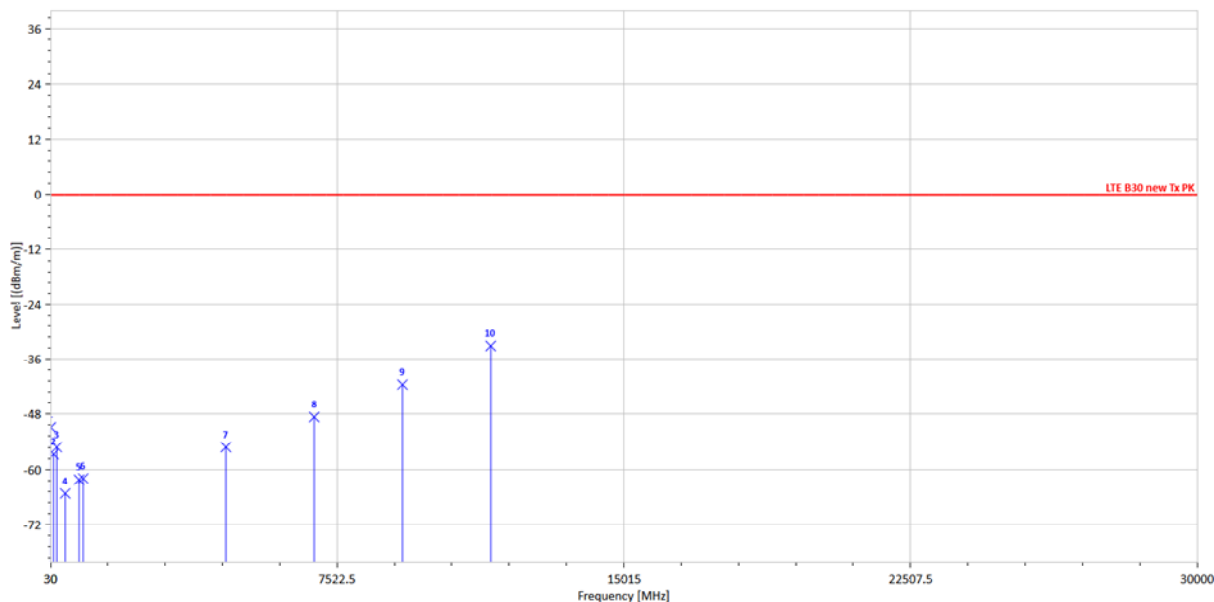
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Operation Mode :	LTEB30 5M 16QAM 1.0	Test Date :	2018/1/20
Fundamental Frequency :	2307.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



Freq.	Note	ERP/EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBd/dBi	Loss dB	@3m dBm/m	dB
37.76	S	-50.85	-36.10	-13.90	-0.85	-40	-10.85
112.45	S	-56.70	-53.69	-1.55	-1.46	-40	-16.70
193.93	S	-55.16	-59.03	5.82	-1.96	-40	-15.16
415.09	S	-65.25	-68.22	5.91	-2.94	-40	-25.25
776.90	S	-62.21	-65.92	7.74	-4.04	-40	-22.21
885.54	S	-61.93	-65.42	7.87	-4.38	-40	-21.93
4615.00	H	-55.17	-58.13	12.58	-9.61	-13	-42.17
6922.50	H	-48.62	-49.46	12.05	-11.21	-13	-35.62
9230.00	H	-41.54	-40.79	11.57	-12.32	-13	-28.54
11537.50	H	-33.15	-31.02	11.50	-13.63	-13	-20.15

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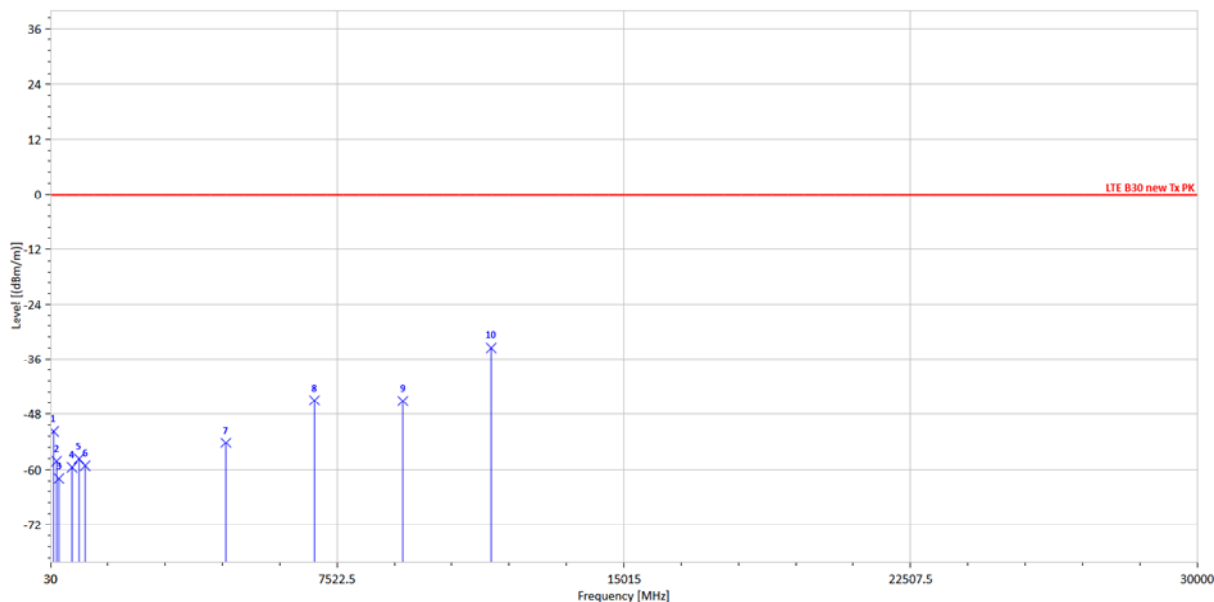
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Operation Mode :	LTEB30 5M 16QAM 1.0	Test Date :	2018/1/20
Fundamental Frequency :	2310 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP/EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBd/dBi	Loss dB	@3m dBm/m	dB
112.45	S	-51.70	-48.69	-1.55	-1.46	-40	-11.70
191.02	S	-58.23	-62.16	5.87	-1.95	-40	-18.23
251.16	S	-61.90	-64.74	5.09	-2.26	-40	-21.90
593.57	S	-59.52	-62.89	6.91	-3.54	-40	-19.52
777.87	S	-57.72	-61.42	7.74	-4.04	-40	-17.72
936.95	S	-59.18	-62.64	7.95	-4.49	-40	-19.18
4615.00	H	-54.20	-57.16	12.58	-9.61	-13	-41.20
6930.00	H	-45.00	-45.82	12.04	-11.22	-13	-32.00
9240.00	H	-45.13	-44.36	11.56	-12.33	-13	-32.13
11550.00	H	-33.56	-31.45	11.53	-13.64	-13	-20.56

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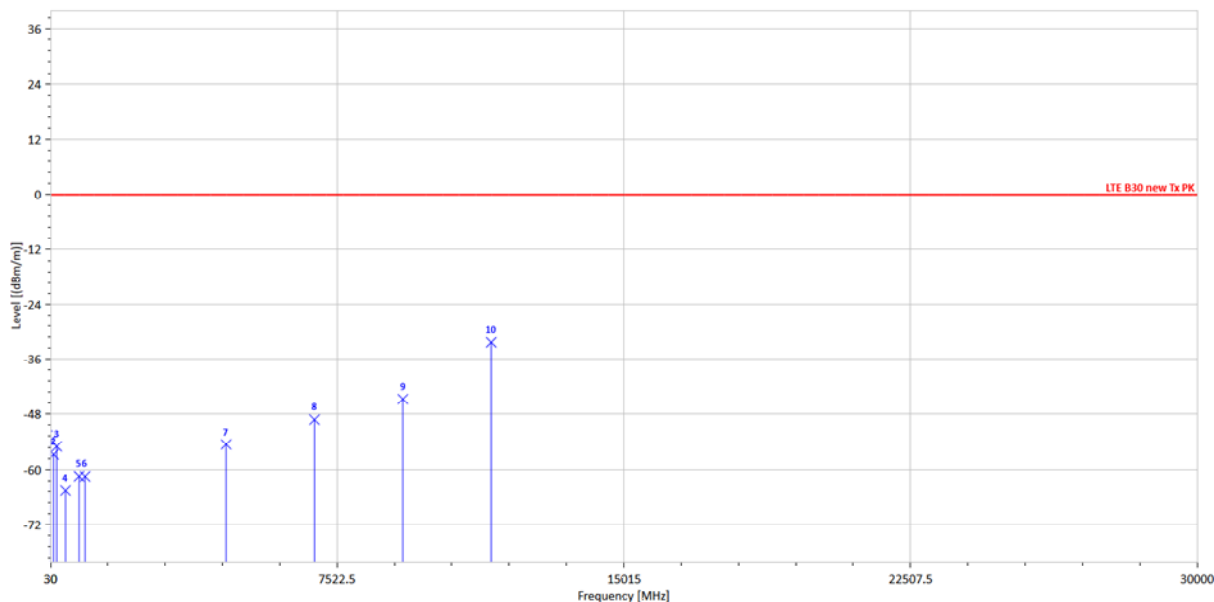
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Operation Mode :	LTEB30 5M 16QAM 1.0	Test Date :	2018/1/20
Fundamental Frequency :	2310 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



Freq.	Note	ERP/EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBd/dBi	Loss dB	@3m dBm/m	dB
37.76	S	-53.67	-38.92	-13.90	-0.85	-40	-13.67
112.45	S	-56.75	-53.73	-1.55	-1.46	-40	-16.75
192.96	S	-54.99	-58.87	5.84	-1.95	-40	-14.99
422.85	S	-64.65	-67.69	5.99	-2.96	-40	-24.65
776.90	S	-61.43	-65.14	7.74	-4.04	-40	-21.43
935.01	S	-61.47	-64.93	7.94	-4.49	-40	-21.47
4620.00	H	-54.56	-57.53	12.58	-9.61	-13	-41.56
6930.00	H	-49.19	-50.02	12.04	-11.22	-13	-36.19
9240.00	H	-44.70	-43.94	11.56	-12.33	-13	-31.70
11550.00	H	-32.36	-30.25	11.53	-13.64	-13	-19.36

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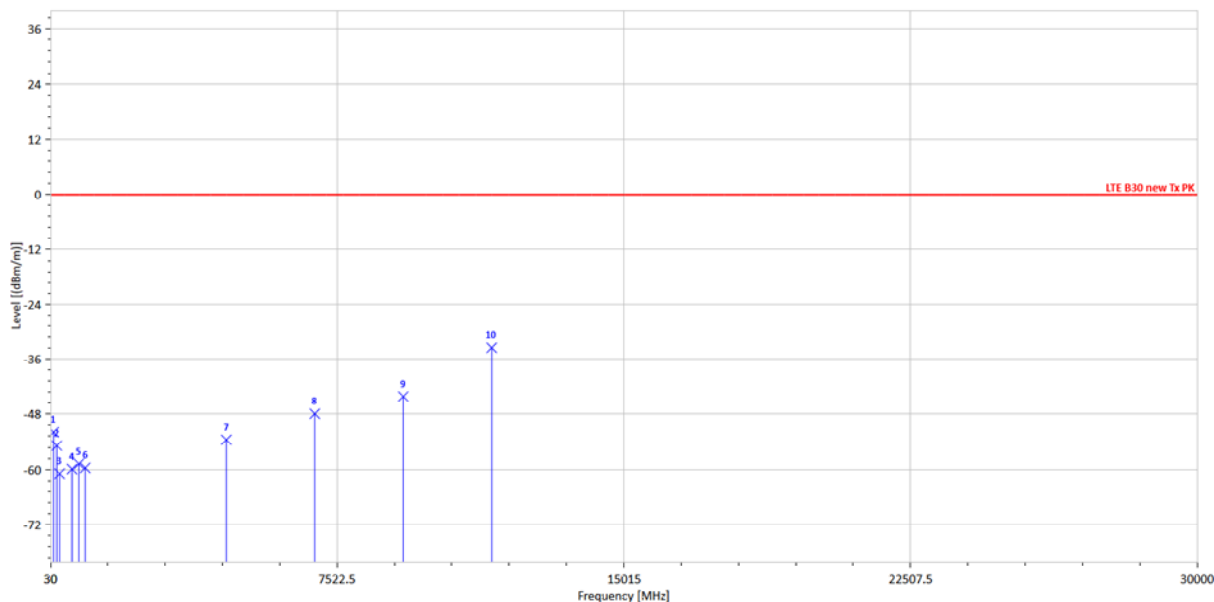
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Operation Mode :	LTEB30 5M 16QAM 1.0	Test Date :	2018/1/20
Fundamental Frequency :	2312.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP/EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBd/dBi	Loss dB	@3m dBm/m	dB
112.45	S	-51.87	-48.86	-1.55	-1.46	-40	-11.87
194.90	S	-54.84	-58.68	5.81	-1.96	-40	-14.84
267.65	S	-60.89	-63.70	5.14	-2.33	-40	-20.89
592.60	S	-59.90	-63.26	6.91	-3.54	-40	-19.90
773.02	S	-58.78	-62.50	7.74	-4.02	-40	-18.78
936.95	S	-59.64	-63.10	7.95	-4.49	-40	-19.64
4625.00	H	-53.54	-56.50	12.57	-9.62	-13	-40.54
6937.50	H	-47.92	-48.74	12.04	-11.22	-13	-34.92
9250.00	H	-44.11	-43.33	11.55	-12.34	-13	-31.11
11562.50	H	-33.52	-31.43	11.56	-13.65	-13	-20.52

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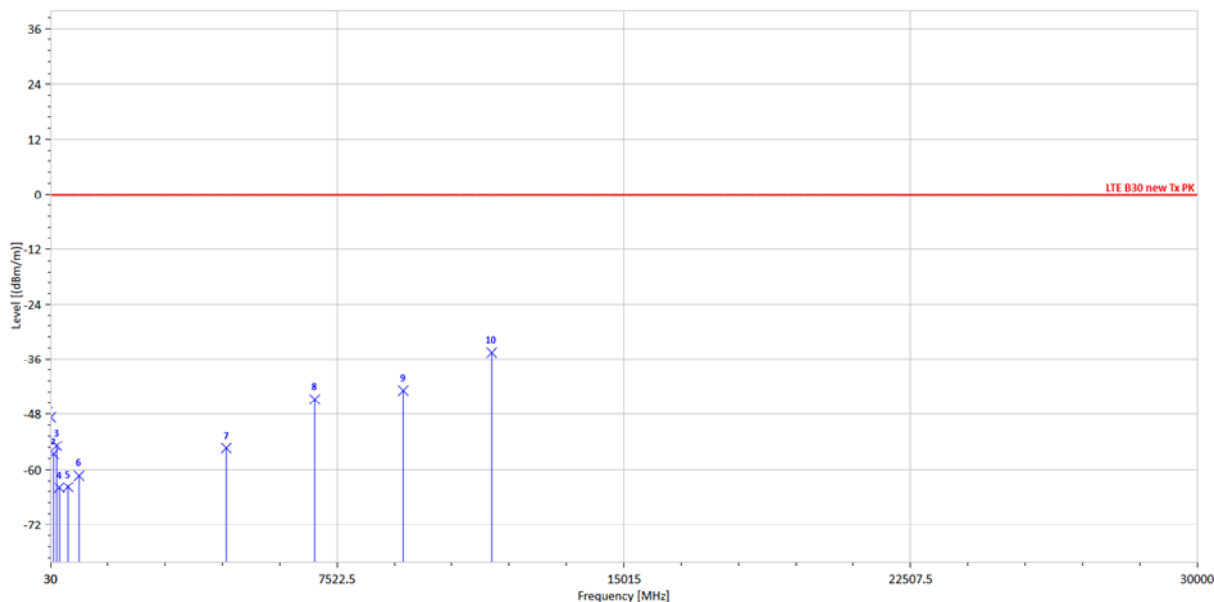
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Operation Mode : LTEB30 5M 16QAM 1.0 Test Date : 2018/1/20
Fundamental Frequency : 2312.5 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Enzo
EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq.	Note	ERP/EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBd/dBi	Loss dB	@3m dBm/m	dB
37.76	S	-48.69	-33.93	-13.90	-0.85	-40	-8.69
112.45	S	-56.65	-53.64	-1.55	-1.46	-40	-16.65
192.96	S	-54.90	-58.79	5.84	-1.95	-40	-14.90
262.80	S	-64.02	-66.45	4.74	-2.31	-40	-24.02
489.78	S	-63.84	-67.10	6.45	-3.19	-40	-23.84
776.90	S	-61.31	-65.02	7.74	-4.04	-40	-21.31
4625.00	H	-55.43	-58.39	12.57	-9.62	-13	-42.43
6937.50	H	-44.77	-45.58	12.04	-11.22	-13	-31.77
9250.00	H	-42.85	-42.07	11.55	-12.34	-13	-29.85
11562.50	H	-34.56	-32.47	11.56	-13.65	-13	-21.56

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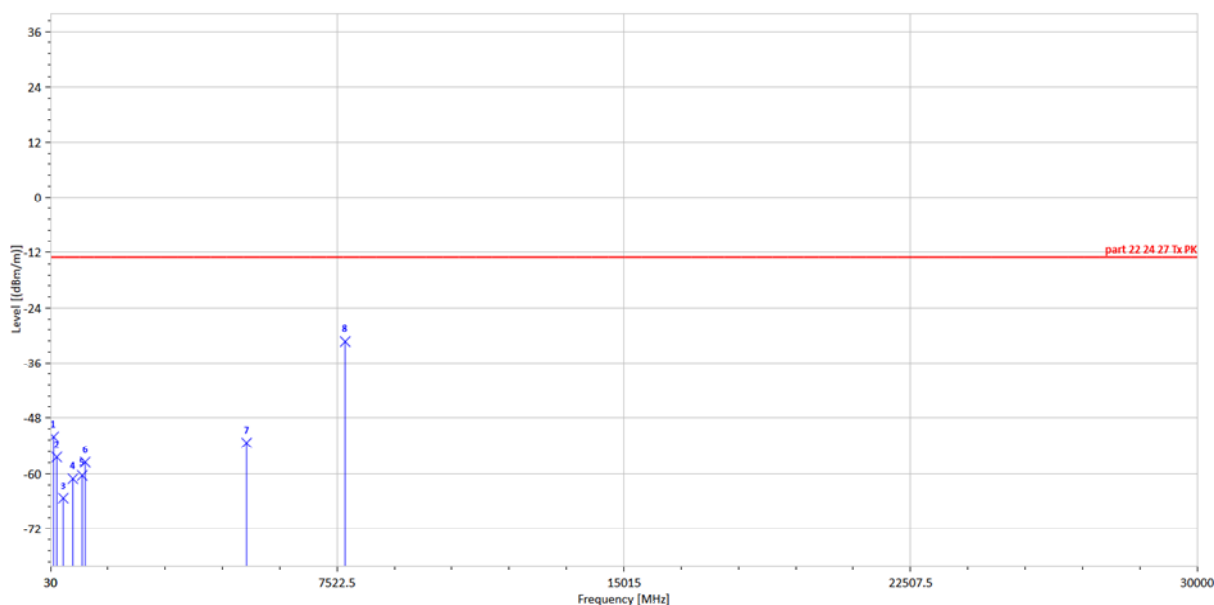
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Radiated Spurious Emission Measurement Result: LTE-Band 38

Operation Mode :	LTEB38 15M 16QAM 1.74	Test Date :	2018/1/20
Fundamental Frequency :	2577.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP/EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level	Gain	Loss	@3m	dB
112.45	S	-52.03	-49.02	-1.55	-1.46	-13.01	-39.02
194.90	S	-56.46	-60.30	5.81	-1.96	-13.01	-43.45
364.65	S	-65.44	-68.63	5.92	-2.73	-13.01	-52.43
615.88	S	-61.09	-64.51	7.04	-3.62	-13.01	-48.08
860.32	S	-60.39	-63.90	7.82	-4.31	-13.01	-47.38
936.95	S	-57.55	-61.00	7.95	-4.49	-13.01	-44.54
5155.00	H	-53.31	-51.08	12.65	-14.89	-13.01	-40.30
7732.50	H	-31.36	-26.60	11.30	-16.06	-13.01	-18.35

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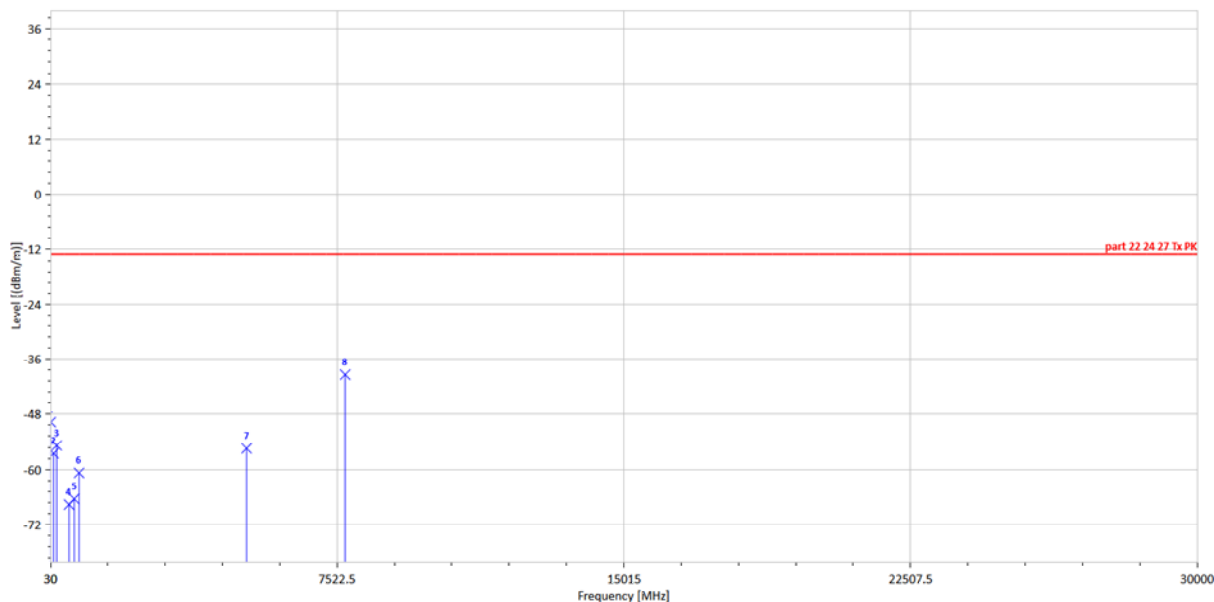
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Operation Mode :	LTEB38 15M 16QAM 1.74	Test Date :	2018/1/20
Fundamental Frequency :	2577.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



Freq.	Note	ERP/EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBd/dBi	Loss dB	@3m dBm/m	dB
36.79	S	-49.72	-34.13	-14.75	-0.85	-13.01	-36.71
111.48	S	-56.53	-53.48	-1.59	-1.46	-13.01	-43.52
192.96	S	-54.78	-58.66	5.84	-1.95	-13.01	-41.77
515.00	S	-67.64	-70.86	6.50	-3.29	-13.01	-54.63
649.83	S	-66.41	-69.87	7.17	-3.70	-13.01	-53.40
776.90	S	-60.72	-64.42	7.74	-4.04	-13.01	-47.71
5155.00	H	-55.45	-53.22	12.65	-14.89	-13.01	-42.44
7732.50	H	-39.42	-34.66	11.30	-16.06	-13.01	-26.41

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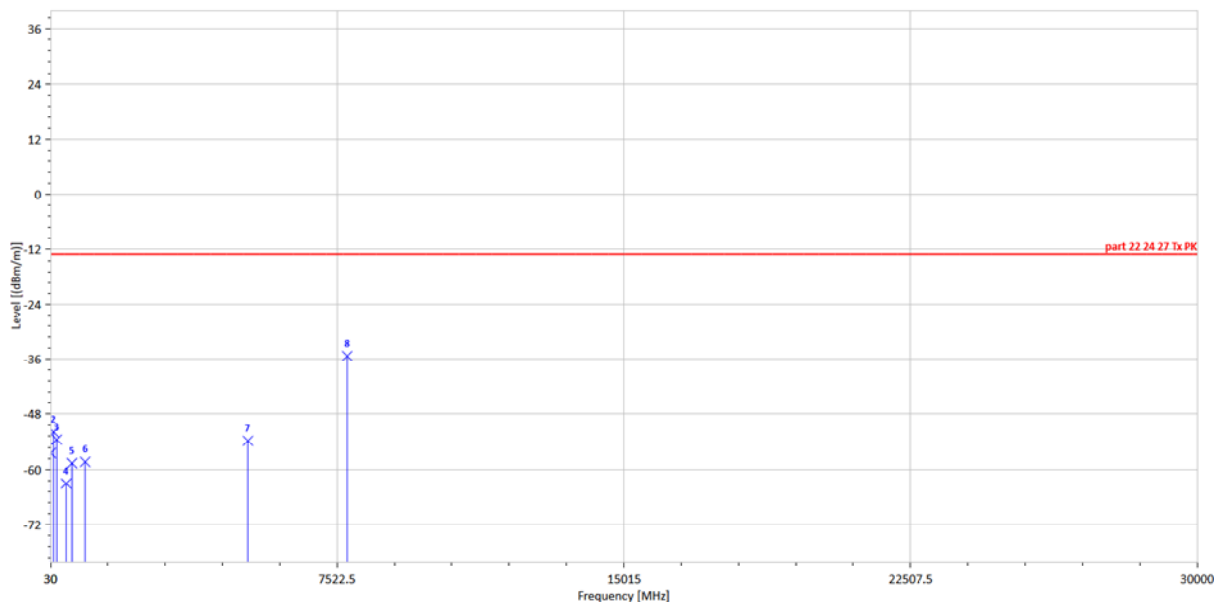
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Operation Mode :	LTEB38 15M 16QAM 1.74	Test Date :	2018/1/20
Fundamental Frequency :	2595 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP/EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBd/dBi	Loss dB	@3m dBm/m	dB
37.76	S	-56.45	-41.69	-13.90	-0.85	-13.01	-43.44
111.48	S	-51.81	-48.75	-1.59	-1.46	-13.01	-38.80
193.93	S	-53.50	-57.37	5.82	-1.96	-13.01	-40.49
439.34	S	-63.06	-66.22	6.16	-3.01	-13.01	-50.05
591.63	S	-58.65	-62.01	6.90	-3.54	-13.01	-45.64
935.98	S	-58.36	-61.81	7.94	-4.49	-13.01	-45.35
5190.00	H	-53.77	-51.56	12.69	-14.90	-13.01	-40.76
7785.00	H	-35.33	-30.55	11.30	-16.08	-13.01	-22.32

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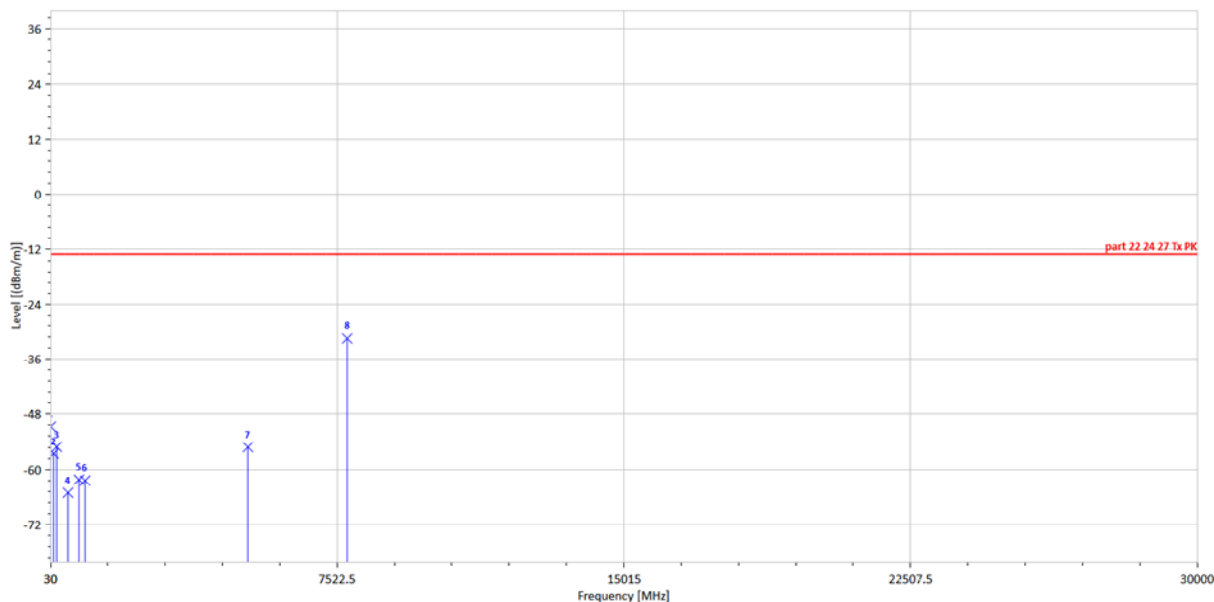
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Operation Mode :	LTEB38 15M 16QAM 1.74	Test Date :	2018/1/20
Fundamental Frequency :	2595 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



Freq.	Note	ERP/EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBd/dBi	Loss dB	@3m dBm/m	dB
37.76	S	-50.68	-35.93	-13.90	-0.85	-13.01	-37.67
111.48	S	-56.57	-53.52	-1.59	-1.46	-13.01	-43.56
192.96	S	-55.10	-58.99	5.84	-1.95	-13.01	-42.09
487.84	S	-65.08	-68.33	6.44	-3.18	-13.01	-52.07
773.99	S	-62.21	-65.93	7.74	-4.03	-13.01	-49.20
934.04	S	-62.41	-65.87	7.94	-4.48	-13.01	-49.40
5190.00	H	-55.17	-52.95	12.69	-14.90	-13.01	-42.16
7785.00	H	-31.54	-26.76	11.30	-16.08	-13.01	-18.53

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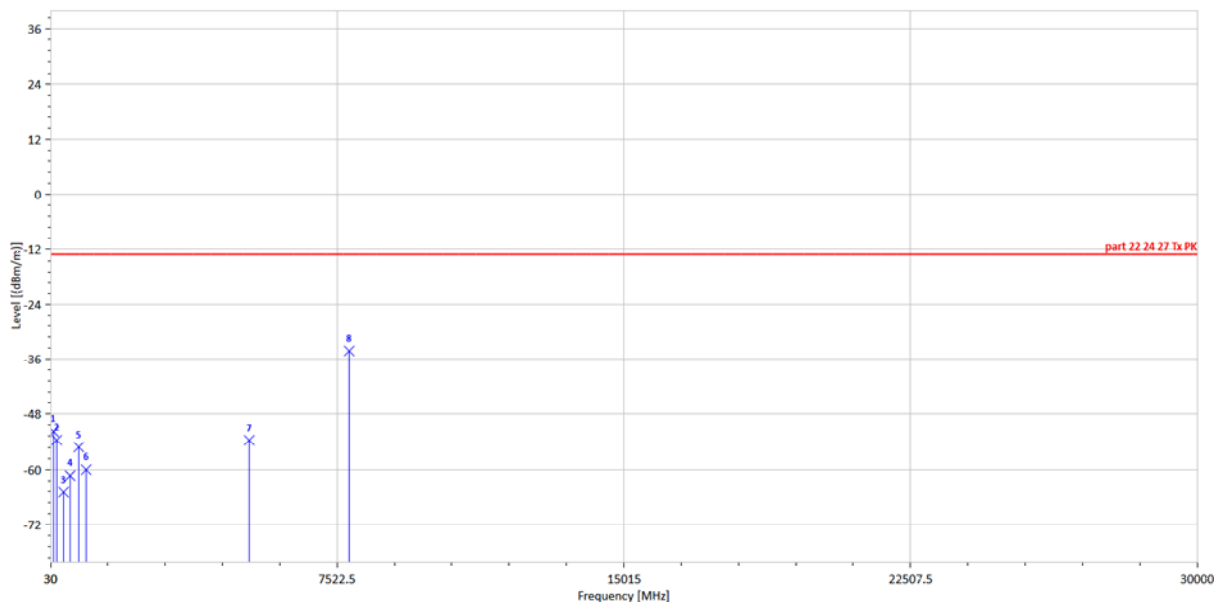
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Operation Mode :	LTEB38 15M 16QAM 1.74	Test Date :	2018/1/20
Fundamental Frequency :	2612.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP/EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBd/dBi	Loss dB	@3m dBm/m	dB
111.48	S	-51.77	-48.71	-1.59	-1.46	-13.01	-38.76
193.93	S	-53.61	-57.48	5.82	-1.96	-13.01	-40.60
371.44	S	-64.99	-68.12	5.89	-2.76	-13.01	-51.98
542.16	S	-61.30	-64.42	6.51	-3.39	-13.01	-48.29
769.14	S	-55.15	-58.88	7.73	-4.01	-13.01	-42.14
962.17	S	-60.02	-63.46	8.00	-4.56	-13.01	-47.01
5225.00	H	-53.64	-51.44	12.73	-14.92	-13.01	-40.63
7837.50	H	-34.22	-29.41	11.30	-16.11	-13.01	-21.21

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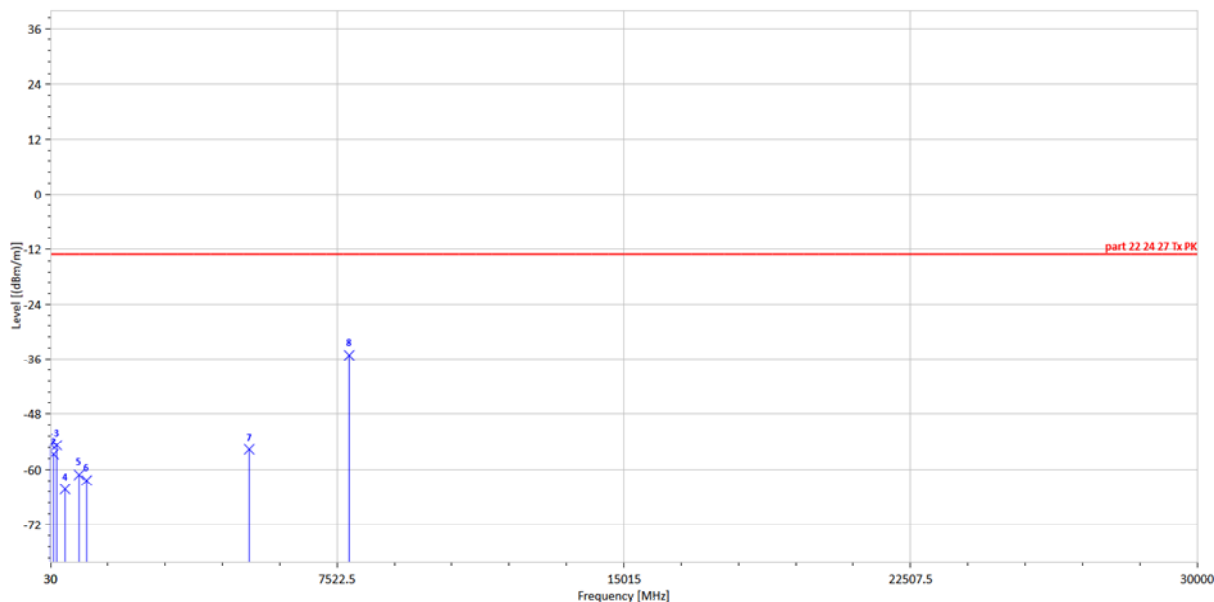
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Operation Mode :	LTEB38 15M 16QAM 1.74	Test Date :	2018/1/20
Fundamental Frequency :	2612.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



Freq.	Note	ERP/EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBd/dBi	Loss dB	@3m dBm/m	dB
30.97	S	-54.53	-34.14	-19.56	-0.82	-13.01	-41.52
112.45	S	-56.72	-53.70	-1.55	-1.46	-13.01	-43.71
192.96	S	-54.75	-58.64	5.84	-1.95	-13.01	-41.74
411.21	S	-64.32	-67.27	5.87	-2.92	-13.01	-51.31
777.87	S	-61.16	-64.87	7.74	-4.04	-13.01	-48.15
975.75	S	-62.37	-65.81	8.04	-4.59	-13.01	-49.35
5225.00	H	-55.69	-53.49	12.73	-14.92	-13.01	-42.68
7837.50	H	-35.15	-30.34	11.30	-16.11	-13.01	-22.14

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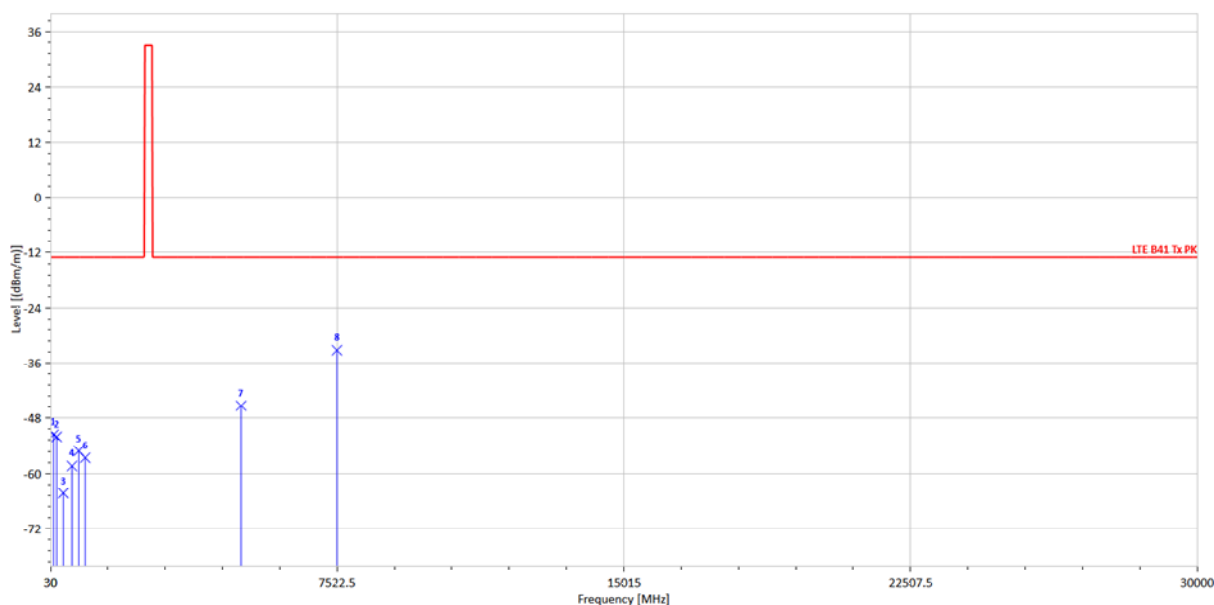
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Radiated Spurious Emission Measurement Result: LTE-Band 41

Operation Mode :	LTEB41 20M 16QAM 1.99	Test Date :	2018/1/20
Fundamental Frequency :	2506 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP/EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBd/dBi	Loss dB	@3m dBm/m	dB
111.48	S	-51.58	-48.53	-1.59	-1.46	-13	-38.58
192.96	S	-52.02	-55.91	5.84	-1.95	-13	-39.02
365.62	S	-64.30	-67.48	5.92	-2.73	-13	-51.30
592.60	S	-58.39	-61.75	6.91	-3.54	-13	-45.39
769.14	S	-55.10	-58.83	7.73	-4.01	-13	-42.10
936.95	S	-56.61	-60.07	7.95	-4.49	-13	-43.61
5012.00	H	-45.27	-47.85	12.51	-9.93	-13	-32.27
7518.00	H	-33.21	-32.95	11.30	-11.57	-13	-20.21

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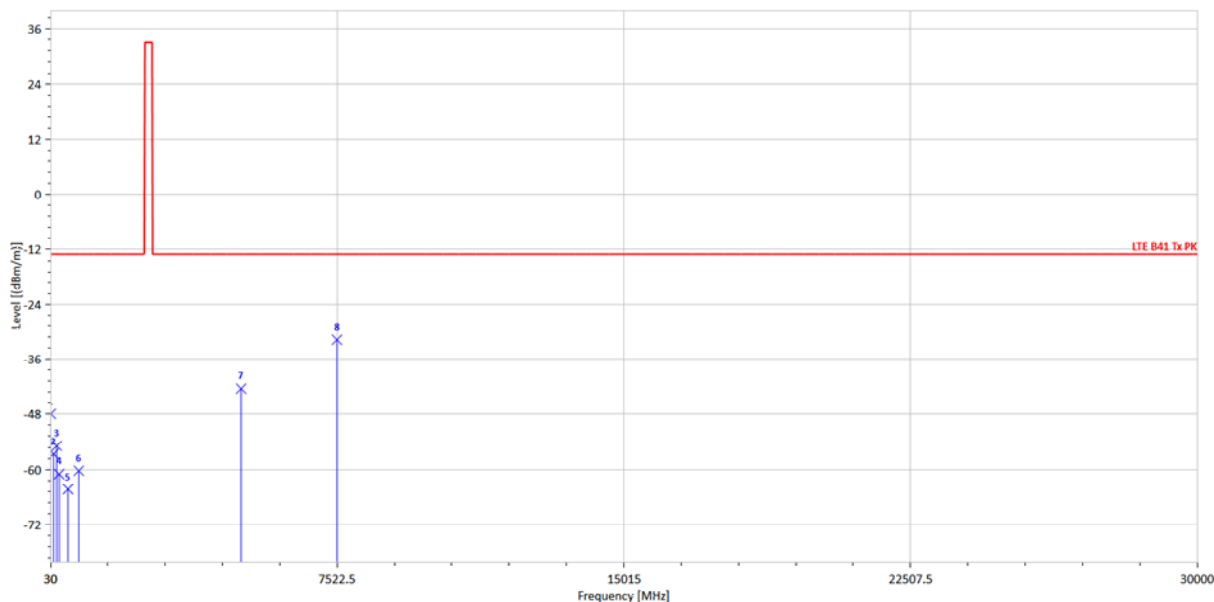
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Operation Mode :	LTEB41 20M 16QAM 1.99	Test Date :	2018/1/20
Fundamental Frequency :	2506 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



Freq.	Note	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBd/dBi	dB	dBm/m	dB
37.76	S	-47.94	-33.18	-13.90	-0.85	-13	-34.94
112.45	S	-56.64	-53.63	-1.55	-1.46	-13	-43.64
192.96	S	-54.89	-58.78	5.84	-1.95	-13	-41.89
255.04	S	-60.98	-63.54	4.84	-2.28	-13	-47.98
486.87	S	-64.31	-67.57	6.43	-3.18	-13	-51.31
769.14	S	-60.26	-63.99	7.73	-4.01	-13	-47.26
5012.00	H	-42.41	-44.99	12.51	-9.93	-13	-29.41
7518.00	H	-31.80	-31.53	11.30	-11.57	-13	-18.80

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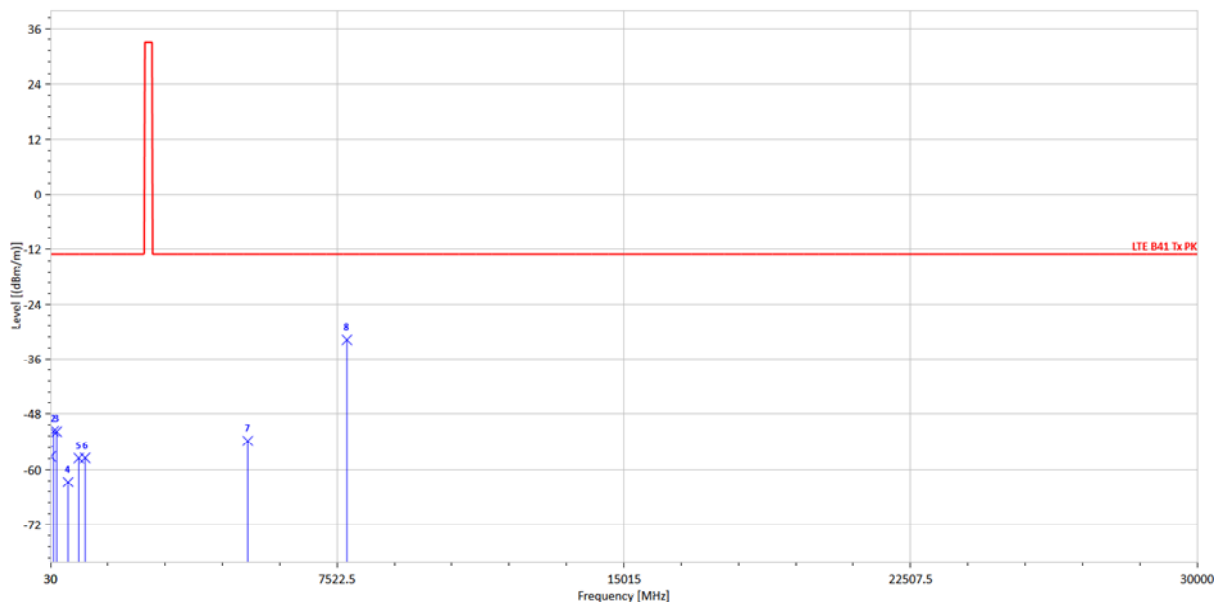
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Operation Mode :	LTEB41 20M 16QAM 1.99	Test Date :	2018/1/20
Fundamental Frequency :	2593 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBd/dBi	dB	dBm/m	dB
37.76	S	-57.20	-42.45	-13.90	-0.85	-13	-44.20
112.45	S	-51.69	-48.67	-1.55	-1.46	-13	-38.69
192.96	S	-51.77	-55.65	5.84	-1.95	-13	-38.77
490.75	S	-62.75	-66.00	6.45	-3.19	-13	-49.75
769.14	S	-57.55	-61.28	7.73	-4.01	-13	-44.55
936.95	S	-57.50	-60.96	7.95	-4.49	-13	-44.50
5186.00	H	-53.80	-56.43	12.69	-10.06	-13	-40.80
7779.00	H	-31.84	-31.48	11.30	-11.66	-13	-18.84

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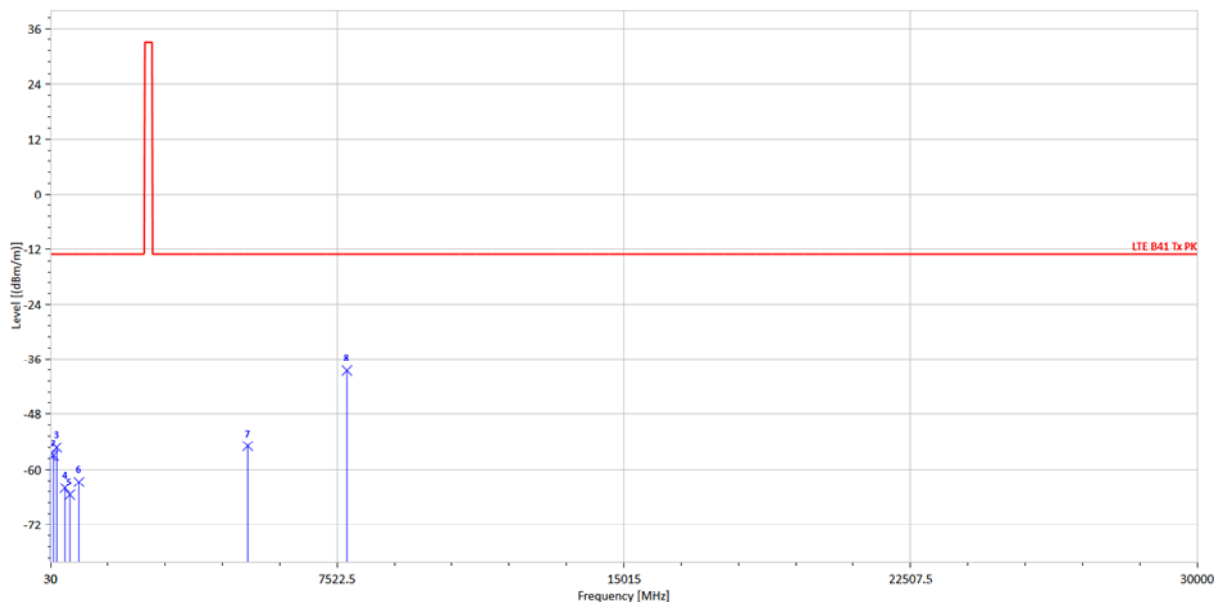
t (886-2) 2299-3279

f (886-2) 2298-0488

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Operation Mode :	LTEB41 20M 16QAM 1.99	Test Date :	2018/1/20
Fundamental Frequency :	2593 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



Freq.	Note	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBd/dBi	dB	dBm/m	dB
31.94	S	-56.97	-37.36	-18.78	-0.83	-13	-43.97
111.48	S	-57.00	-53.94	-1.59	-1.46	-13	-44.00
193.93	S	-55.24	-59.10	5.82	-1.96	-13	-42.24
407.33	S	-64.05	-66.97	5.83	-2.91	-13	-51.05
537.31	S	-65.51	-68.64	6.51	-3.37	-13	-52.51
773.02	S	-62.73	-66.45	7.74	-4.02	-13	-49.73
5186.00	H	-54.93	-57.55	12.69	-10.06	-13	-41.93
7779.00	H	-38.55	-38.18	11.30	-11.66	-13	-25.55

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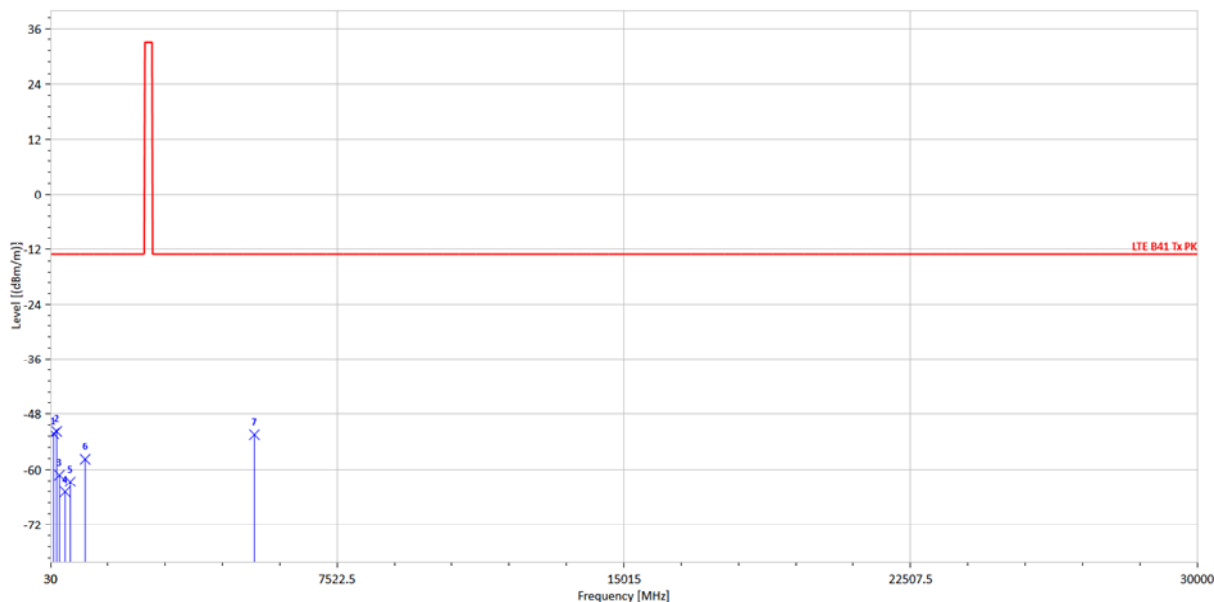
t (886-2) 2299-3279

f (886-2) 2298-0488

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Operation Mode :	LTEB41 20M 16QAM 1.99	Test Date :	2018/1/20
Fundamental Frequency :	2680 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP/EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBd/dBi	Loss dB	@3m dBm/m	dB
111.48	S	-52.16	-49.11	-1.59	-1.46	-13	-39.16
192.96	S	-51.70	-55.59	5.84	-1.95	-13	-38.70
263.77	S	-61.20	-63.71	4.82	-2.32	-13	-48.20
411.21	S	-64.89	-67.84	5.87	-2.92	-13	-51.89
547.01	S	-62.66	-65.77	6.52	-3.40	-13	-49.66
936.95	S	-57.82	-61.27	7.95	-4.49	-13	-44.82
5360.00	H	-52.38	-55.06	12.86	-10.18	-13	-39.38

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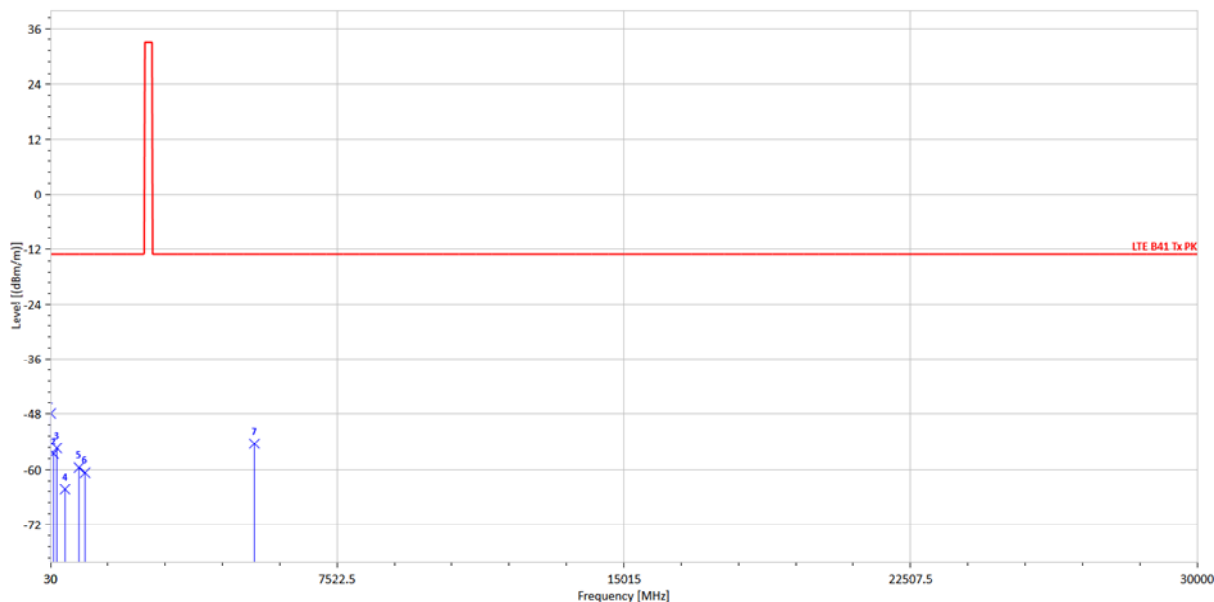
t (886-2) 2299-3279

f (886-2) 2298-0488

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Operation Mode :	LTEB41 20M 16QAM 1.99	Test Date :	2018/1/20
Fundamental Frequency :	2680 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



Freq.	Note	ERP/EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBd/dBi	Loss dB	@3m dBm/m	dB
37.76	S	-47.87	-33.12	-13.90	-0.85	-13	-34.87
111.48	S	-56.58	-53.52	-1.59	-1.46	-13	-43.58
194.90	S	-55.40	-59.25	5.81	-1.96	-13	-42.40
410.24	S	-64.36	-67.30	5.86	-2.92	-13	-51.36
773.99	S	-59.57	-63.28	7.74	-4.03	-13	-46.57
935.01	S	-60.67	-64.13	7.94	-4.49	-13	-47.67
5360.00	H	-54.39	-57.07	12.86	-10.18	-13	-41.39

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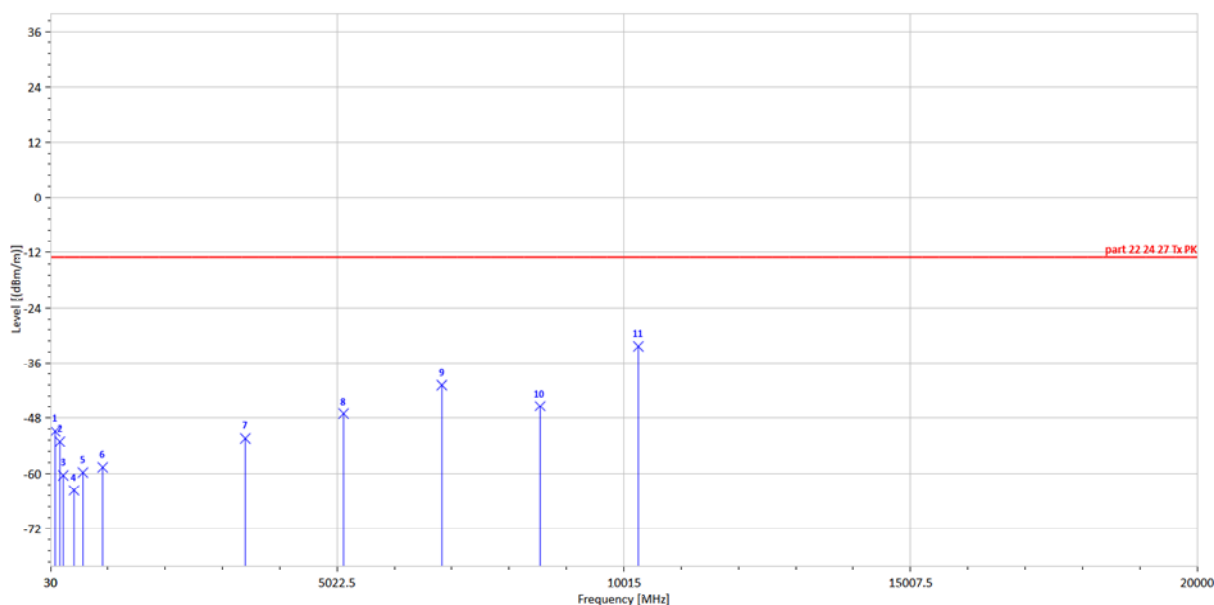
f (886-2) 2298-0488

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Radiated Spurious Emission Measurement Result: LTE-Band 66

Operation Mode :	LTEB66 3M QPSK 1.0	Test Date :	2018/1/19
Fundamental Frequency :	1711.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP/EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBd/dBi	Loss dB	@3m dBm/m	dB
112.45	S	-50.81	-47.80	-1.55	-1.46	-13.01	-37.80
193.93	S	-53.03	-56.90	5.82	-1.96	-13.01	-40.02
252.13	S	-60.41	-63.18	5.03	-2.26	-13.01	-47.40
439.34	S	-63.71	-66.87	6.16	-3.01	-13.01	-50.70
595.51	S	-59.80	-63.18	6.93	-3.55	-13.01	-46.79
938.89	S	-58.69	-62.14	7.95	-4.50	-13.01	-45.68
3423.00	H	-52.34	-55.78	12.15	-8.70	-13.01	-39.33
5134.50	H	-47.04	-49.65	12.63	-10.02	-13.01	-34.03
6846.00	H	-40.80	-41.71	12.09	-11.18	-13.01	-27.79
8557.50	H	-45.37	-45.39	12.07	-12.04	-13.01	-32.36
10269.00	H	-32.39	-30.83	11.24	-12.80	-13.01	-19.38

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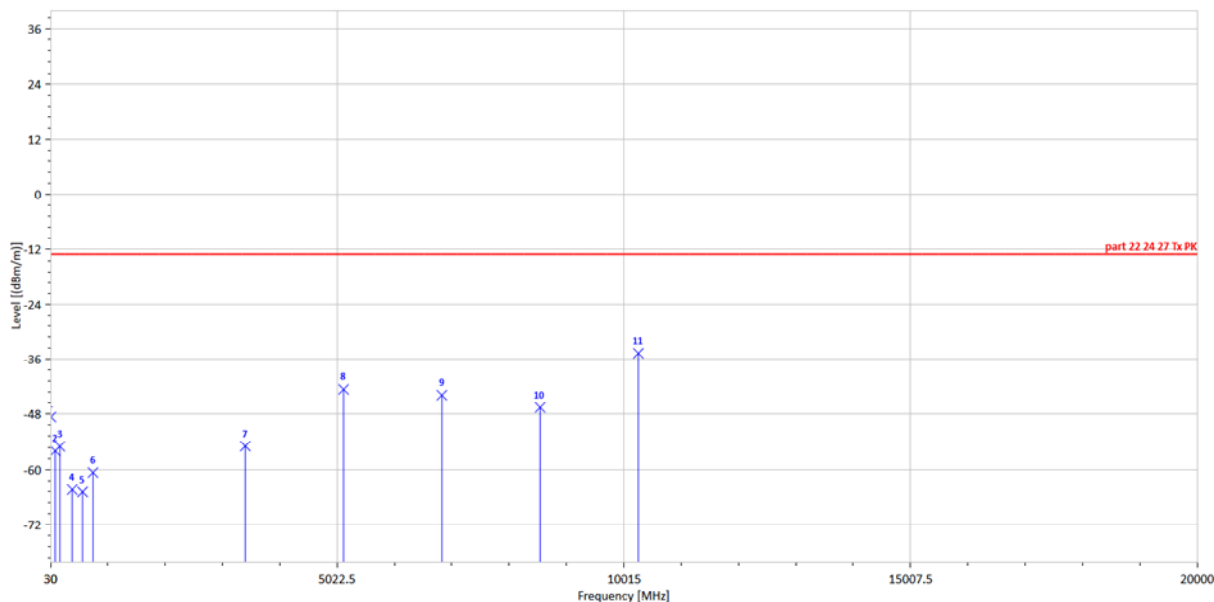
t (886-2) 2299-3279

f (886-2) 2298-0488

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Operation Mode :	LTEB66 3M QPSK 1.0	Test Date :	2018/1/19
Fundamental Frequency :	1711.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
37.76	S	-48.62	-33.87	-13.90	-0.85	-13.01	-35.61
112.45	S	-55.98	-52.96	-1.55	-1.46	-13.01	-42.97
192.96	S	-55.02	-58.91	5.84	-1.95	-13.01	-42.01
408.30	S	-64.44	-67.37	5.84	-2.91	-13.01	-51.43
588.72	S	-64.93	-68.28	6.87	-3.52	-13.01	-51.92
770.11	S	-60.63	-64.36	7.74	-4.01	-13.01	-47.62
3423.00	H	-54.95	-58.40	12.15	-8.70	-13.01	-41.94
5134.50	H	-42.57	-45.18	12.63	-10.02	-13.01	-29.56
6846.00	H	-43.83	-44.75	12.09	-11.18	-13.01	-30.82
8557.50	H	-46.57	-46.59	12.07	-12.04	-13.01	-33.56
10269.00	H	-34.72	-33.15	11.24	-12.80	-13.01	-21.71

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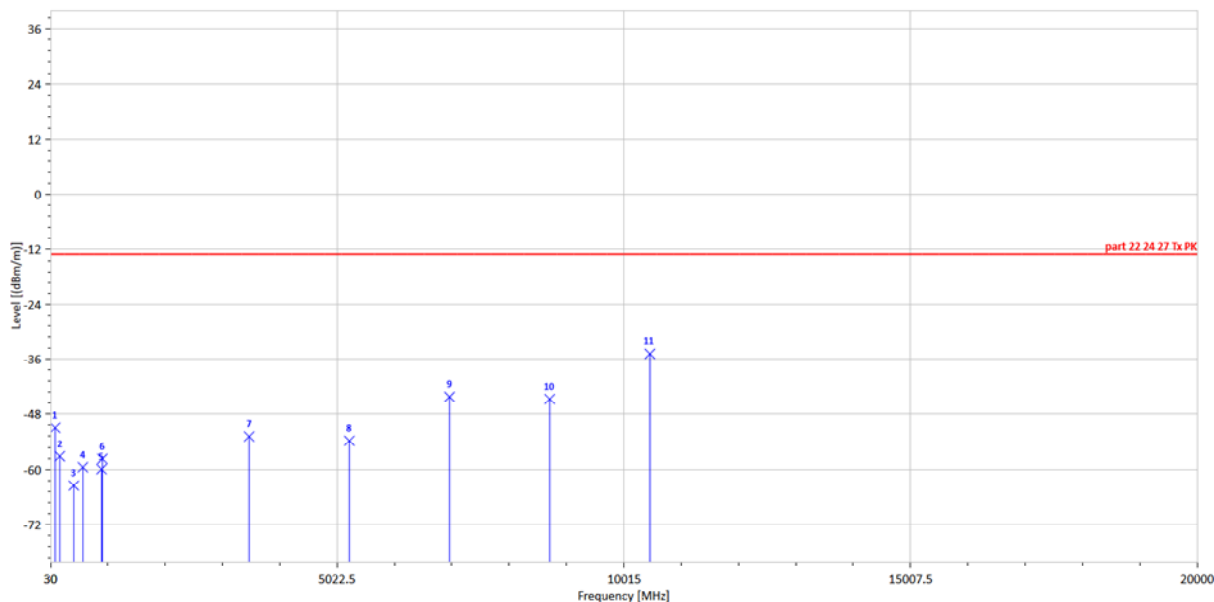
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Operation Mode :	LTEB66 3M QPSK 1.0	Test Date :	2018/1/19
Fundamental Frequency :	1745 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
111.48	S	-50.91	-47.86	-1.59	-1.46	-13.01	-37.90
191.99	S	-57.15	-61.05	5.85	-1.95	-13.01	-44.14
435.46	S	-63.52	-66.65	6.12	-3.00	-13.01	-50.51
593.57	S	-59.51	-62.88	6.91	-3.54	-13.01	-46.50
919.49	S	-59.93	-63.41	7.92	-4.44	-13.01	-46.92
934.04	S	-57.70	-61.16	7.94	-4.48	-13.01	-44.69
3490.00	H	-52.82	-56.35	12.28	-8.75	-13.01	-39.81
5235.00	H	-53.76	-56.40	12.73	-10.09	-13.01	-40.75
6980.00	H	-44.20	-44.97	12.01	-11.24	-13.01	-31.19
8725.00	H	-44.69	-44.60	11.97	-12.05	-13.01	-31.68
10470.00	H	-34.85	-33.02	11.12	-12.95	-13.01	-21.84

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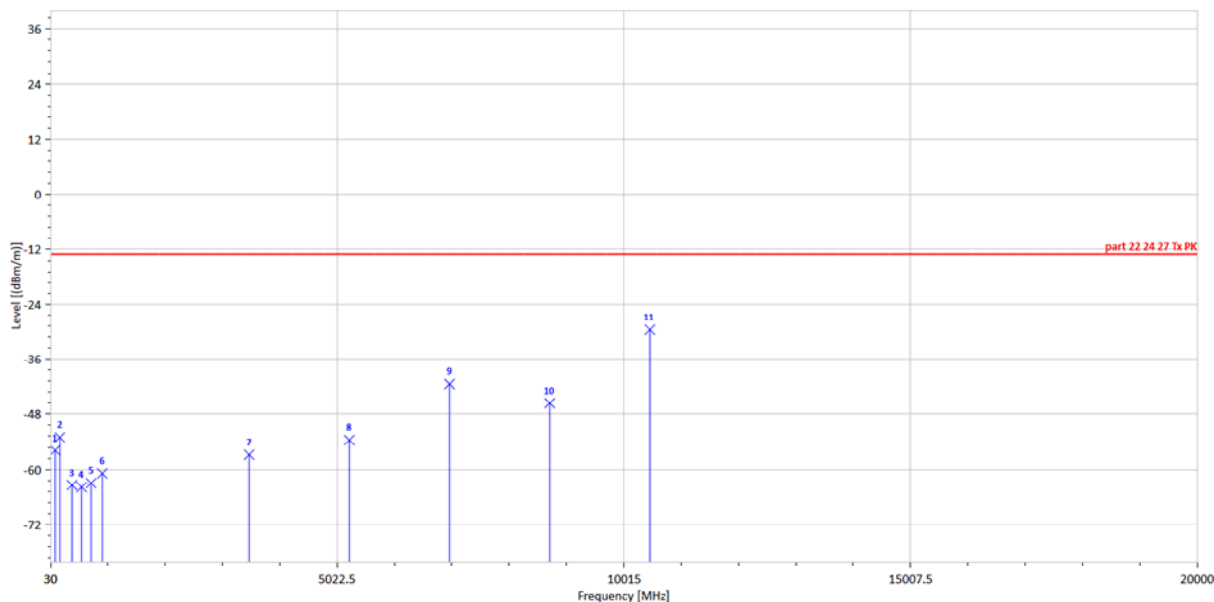
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Operation Mode :	LTEB66 3M QPSK 1.0	Test Date :	2018/1/19
Fundamental Frequency :	1745 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
111.48	S	-55.85	-52.80	-1.59	-1.46	-13.01	-42.84
192.96	S	-53.00	-56.88	5.84	-1.95	-13.01	-39.99
404.42	S	-63.39	-66.30	5.80	-2.89	-13.01	-50.38
571.26	S	-63.86	-67.10	6.71	-3.46	-13.01	-50.85
737.13	S	-62.98	-66.79	7.71	-3.91	-13.01	-49.97
932.10	S	-60.84	-64.30	7.94	-4.48	-13.01	-47.83
3490.00	H	-56.82	-60.35	12.28	-8.75	-13.01	-43.81
5235.00	H	-53.60	-56.24	12.73	-10.09	-13.01	-40.59
6980.00	H	-41.42	-42.19	12.01	-11.24	-13.01	-28.41
8725.00	H	-45.59	-45.50	11.97	-12.05	-13.01	-32.58
10470.00	H	-29.65	-27.82	11.12	-12.95	-13.01	-16.64

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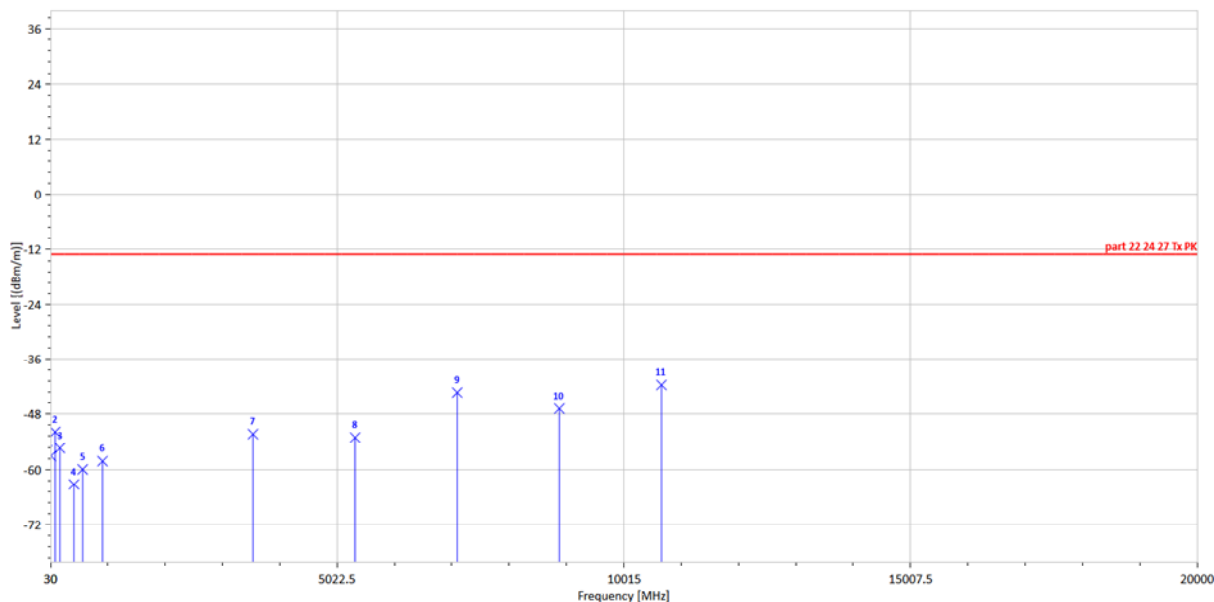
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Operation Mode :	LTEB66 3M QPSK 1.0	Test Date :	2018/1/19
Fundamental Frequency :	1778.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
37.76	S	-57.08	-42.32	-13.90	-0.85	-13.01	-44.07
111.48	S	-51.85	-48.79	-1.59	-1.46	-13.01	-38.84
193.93	S	-55.37	-59.24	5.82	-1.96	-13.01	-42.36
438.37	S	-63.24	-66.39	6.15	-3.01	-13.01	-50.23
589.69	S	-59.98	-63.33	6.88	-3.53	-13.01	-46.97
936.95	S	-58.21	-61.67	7.95	-4.49	-13.01	-45.20
3557.00	H	-52.29	-55.83	12.33	-8.80	-13.01	-39.28
5335.50	H	-53.04	-55.71	12.84	-10.16	-13.01	-40.03
7114.00	H	-43.24	-43.77	11.84	-11.31	-13.01	-30.23
8892.50	H	-46.82	-46.60	11.86	-12.09	-13.01	-33.81
10671.00	H	-41.61	-39.50	11.00	-13.11	-13.01	-28.60

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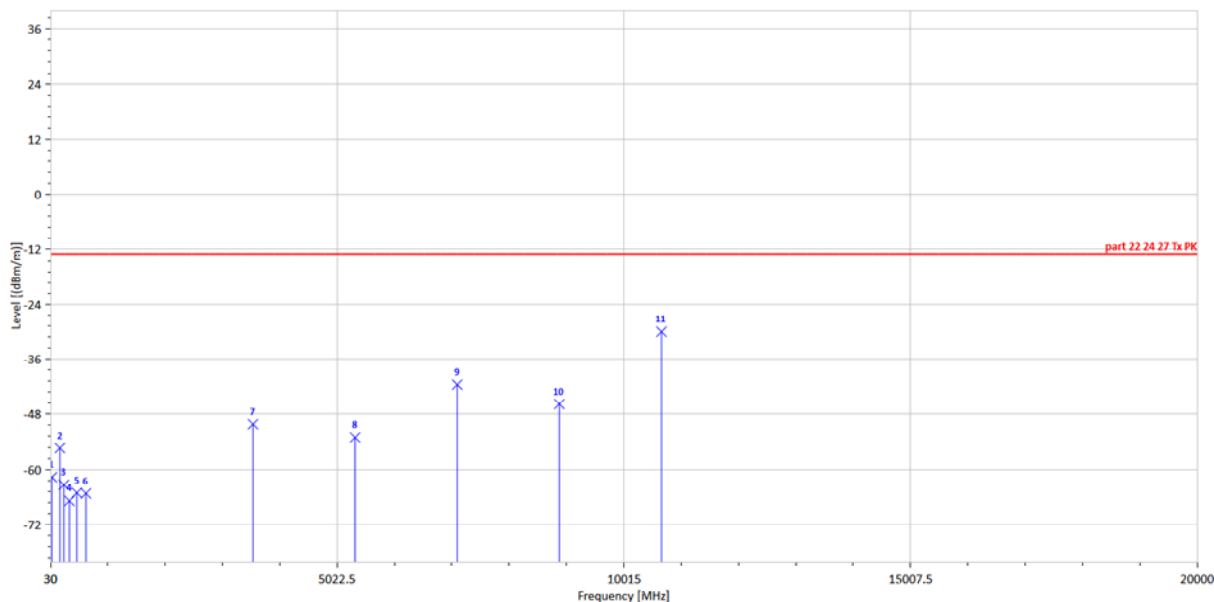
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Operation Mode :	LTEB66 3M QPSK 1.0	Test Date :	2018/1/19
Fundamental Frequency :	1778.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



Freq.	Note	ERP/EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBd/dBi	Loss dB	@3m dBm/m	dB
55.22	S	-61.67	-57.58	-3.08	-1.00	-13.01	-48.66
193.93	S	-55.39	-59.26	5.82	-1.96	-13.01	-42.38
262.80	S	-63.34	-65.77	4.74	-2.31	-13.01	-50.33
358.83	S	-66.85	-70.10	5.95	-2.71	-13.01	-53.84
487.84	S	-65.10	-68.35	6.44	-3.18	-13.01	-52.09
647.89	S	-65.25	-68.72	7.16	-3.69	-13.01	-52.24
3557.00	H	-50.17	-53.70	12.33	-8.80	-13.01	-37.16
5335.50	H	-52.99	-55.66	12.84	-10.16	-13.01	-39.98
7114.00	H	-41.55	-42.08	11.84	-11.31	-13.01	-28.54
8892.50	H	-45.79	-45.57	11.86	-12.09	-13.01	-32.78
10671.00	H	-30.09	-27.98	11.00	-13.11	-13.01	-17.08

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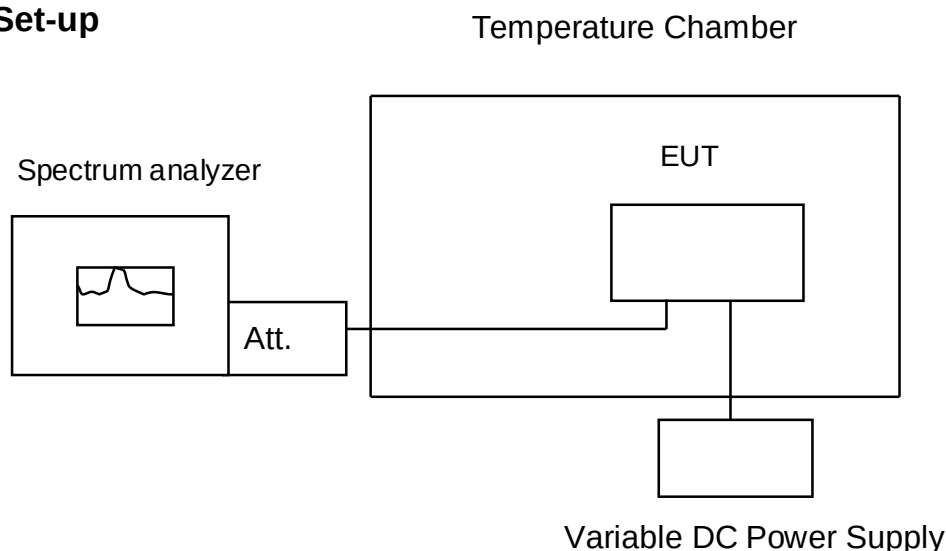
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11. FREQUENCY STABILITY MEASUREMENT

11.1. Standard Applicable

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

11.2. Test Set-up



Note: Measurement setup for testing on Antenna connector

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

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

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11.4. Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	06/20/2017	06/19/2018
Communication Tester	Anritsu	MT8820C	6201107337	06/11/2017	06/10/2018
Coaxial Cable 30cm	WOKEN	00100A1F1A19 5C	RF01	12/24/2017	12/23/2018
Temperature Chamber	TERCHY	MHK-120LK	1020582	06/13/2017	06/12/2018
DC Block	PASTERNAK	PE8210	RF29	12/24/2017	12/23/2018
Splitter	RF-LAMBAD	RFLT2W1G18G	RF35	12/24/2017	12/23/2018
Attenuator	WOKEN	218FS-10	RF23	12/24/2017	12/23/2018
DC Power Supply	Agilent	E3640A	MY53140006	05/02/2017	05/01/2018

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11.5. Measurement Result

WCDMA II Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm				
Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit (Hz)
FREQUENCY ERROR vs. VOLTAGE				
8.855	20	1879999989	-11	4700
7.7	20	1879999991	-9	4700
6.545	20	1879999982	-18	4700
6.3 (End point)	20	1880000022	22	4700
FREQUENCY ERROR vs. Temp.				
7.7	50	1880000022	22	4700
7.7	40	1880000022	22	4700
7.7	30	1879999983	-17	4700
7.7	20	1880000016	16	4700
7.7	10	1880000006	6	4700
7.7	0	1879999993	-7	4700
7.7	-10	1880000013	13	4700
7.7	-20	1879999975	-25	4700
7.7	-30	1880000010	10	4700

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WCDMA IV Mid Channel 1732.6 MHz				
Limit: +/- 2.5 ppm				
Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit (Hz)
FREQUENCY ERROR vs. VOLTAGE				
8.855	20	1732599977	-23	4331
7.7	20	1732600016	16	4331
6.545	20	1732599996	-4	4331
6.3 (End point)	20	1732599982	-18	4331
FREQUENCY ERROR vs. Temp.				
7.7	50	1732599978	-22	4331
7.7	40	1732600012	12	4331
7.7	30	1732599999	-1	4331
7.7	20	1732600003	3	4331
7.7	10	1732599998	-2	4331
7.7	0	1732600002	2	4331
7.7	-10	1732599981	-19	4331
7.7	-20	1732600008	8	4331
7.7	-30	1732599997	-3	4331

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WCDMA V Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm				
Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit (Hz)
FREQUENCY ERROR vs. VOLTAGE				
8.855	20	836600020	20	2091
7.7	20	836600009	9	2091
6.545	20	836600023	23	2091
6.3 (End point)	20	836600012	12	2091
FREQUENCY ERROR vs. Temp.				
7.7	50	836600014	14	2091
7.7	40	836600019	19	2091
7.7	30	836599988	-12	2091
7.7	20	836600004	4	2091
7.7	10	836599979	-21	2091
7.7	0	836599988	-12	2091
7.7	-10	836600009	9	2091
7.7	-20	836600018	18	2091
7.7	-30	836599993	-7	2091

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Reference Freq.:	LTE B2 Mid Channel		1880	MHz 20M QPSK CH 18900
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
8.855	25	1880.000024	24	4700
7.7	25	1880.000023	23	4700
6.545	25	1880.000019	19	4700
6.2	25	1879.999985	-15	4700
(End Point)				
Freq. ERROR vs. Temp.				
7.7	-30	1880.000012	12	4700
7.7	-20	1880.000000	0	4700
7.7	-10	1880.000000	0	4700
7.7	0	1880.000000	0	4700
7.7	10	1880.000000	0	4700
7.7	20	1880.000008	8	4700
7.7	30	1880.000006	6	4700
7.7	40	1879.999985	-15	4700
7.7	50	1880.000020	20	4700

Reference Freq.:	LTE B4 Mid Channel		1733	MHz 20M QPSK CH 20175
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
8.855	25	1732.500015	15	4331
7.7	25	1732.499979	-21	4331
6.545	25	1732.500009	9	4331
6.2	25	1732.499988	-12	4331
(End Point)				
Freq. ERROR vs. Temp.				
7.7	-30	1732.500008	8	4331
7.7	-20	1732.500017	17	4331
7.7	-10	1732.500013	13	4331
7.7	0	1732.500007	7	4331
7.7	10	1732.499986	-14	4331
7.7	20	1732.500021	21	4331
7.7	30	1732.499994	-6	4331
7.7	40	1732.500002	2	4331
7.7	50	1732.499992	-8	4331

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Reference Freq.:	LTE B5 Mid Channel		837	MHz 10M QPSK CH 20525
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
8.855	25	836.500014	14	2091
7.7	25	836.499994	-6	2091
6.545	25	836.500014	14	2091
6.2	25	836.500005	5	2091
(End Point)				
Freq. ERROR vs. Temp.				
7.7	-30	836.499995	-5	2091
7.7	-20	836.499979	-21	2091
7.7	-10	836.500001	1	2091
7.7	0	836.500016	16	2091
7.7	10	836.500020	20	2091
7.7	20	836.499993	-7	2091
7.7	30	836.500004	4	2091
7.7	40	836.499987	-13	2091
7.7	50	836.499997	-3	2091

Reference Freq.:	LTE B7 Mid Channel		2535	MHz 10M QPSK CH 21100
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
8.855	25	2535.000006	6	6338
7.7	25	2534.999976	-24	6338
6.545	25	2534.999976	-24	6338
6.2	25	2535.000012	12	6338
(End Point)				
Freq. ERROR vs. Temp.				
7.7	-30	2535.000021	21	6338
7.7	-20	2535.000021	21	6338
7.7	-10	2535.000019	19	6338
7.7	0	2534.999992	-8	6338
7.7	10	2534.999986	-14	6338
7.7	20	2535.000002	2	6338
7.7	30	2534.999980	-20	6338
7.7	40	2534.999980	-20	6338
7.7	50	2534.999975	-25	6338

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Reference Freq.:	LTE B12 Mid Channel		708	MHz 10M QPSK CH 23095
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
8.855	25	707.499996	-4	1769
7.7	25	707.500004	4	1769
6.545	25	707.500023	23	1769
6.2 (End Point)	25	707.500016	16	1769
Freq. ERROR vs. Temp.				
7.7	-30	707.499994	16	1769
7.7	-20	707.500003	25	1769
7.7	-10	707.499978	0	1769
7.7	0	707.499991	13	1769
7.7	10	707.499975	-3	1769
7.7	20	707.499978	-22	1769
7.7	30	707.500004	26	1769
7.7	40	707.500024	46	1769
7.7	50	707.499983	5	1769
Reference Freq.:	LTE B13 Mid Channel		782	MHz 10M QPSK CH 23230
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
8.855	25	782.000008	8	1955
7.7	25	782.000005	5	1955
6.545	25	781.999992	-8	1955
6.2 (End Point)	25	781.999995	-5	1955
Freq. ERROR vs. Temp.				
7.7	-30	782.000013	13	1955
7.7	-20	781.999990	-10	1955
7.7	-10	781.999999	-1	1955
7.7	0	781.999981	-19	1955
7.7	10	782.000005	5	1955
7.7	20	781.999994	-6	1955
7.7	30	782.000015	15	1955
7.7	40	782.000001	1	1955
7.7	50	781.999975	-25	1955

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Reference Freq.:	LTE B17 Mid Channel		710	MHz 10M QPSK CH 23790
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
8.855	25	709.999994	-6	1775
7.7	25	709.999999	-1	1775
6.545	25	710.000014	14	1775
6.2 (End Point)	25	710.000011	11	1775
Freq. ERROR vs. Temp.				
7.7	-30	710.000020	-3	1775
7.7	-20	709.999976	-47	1775
7.7	-10	709.999976	-47	1775
7.7	0	709.999990	-33	1775
7.7	10	709.999993	-30	1775
7.7	20	710.000023	23	1775
7.7	30	710.000012	-11	1775
7.7	40	709.999997	-26	1775
7.7	50	709.999986	-37	1775

Reference Freq.:	LTE B26 Mid Channel		837	MHz 15M QPSK CH 26915
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
8.855	25	836.499998	-2	2091
7.7	25	836.499975	-25	2091
6.545	25	836.500007	7	2091
6.2 (End Point)	25	836.499997	-3	2091
Freq. ERROR vs. Temp.				
7.7	-30	836.499991	-9	2091
7.7	-20	836.500007	7	2091
7.7	-10	836.499986	-14	2091
7.7	0	836.499987	-13	2091
7.7	10	836.499982	-18	2091
7.7	20	836.499992	-8	2091
7.7	30	836.499998	-2	2091
7.7	40	836.499986	-14	2091
7.7	50	836.500018	18	2091

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Reference Freq.:	LTE B26 Mid Channel		819	MHz 10M QPSK CH 26740
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE (LTE B26 for Part 90S)				
8.855	25	819.000021	21	2048
7.7	25	818.999990	-10	2048
6.545	25	819.000020	20	2048
6.2 (End Point)	25	819.000001	1	2048
Freq. ERROR vs. Temp.				
7.7	-30	818.999990	-17	2048
7.7	-20	818.999984	-23	2048
7.7	-10	818.999991	-16	2048
7.7	0	819.000016	9	2048
7.7	10	819.000019	12	2048
7.7	20	819.000007	7	2048
7.7	30	819.000024	17	2048
7.7	40	818.999983	-24	2048
7.7	50	819.000007	0	2048
Reference Freq.:	LTE B30 Mid Channel		2310	MHz 10M QPSK CH 27710
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
8.855	25	2309.999994	-6	6488
7.7	25	2310.000021	21	6488
6.545	25	2309.999986	-14	6488
6.2 (End Point)	25	2310.000009	9	6488
Freq. ERROR vs. Temp.				
7.7	-30	2309.999985	-15	6488
7.7	-20	2309.999999	-1	6488
7.7	-10	2309.999977	-23	6488
7.7	0	2310.000009	9	6488
7.7	10	2310.000008	8	6488
7.7	20	2309.999995	-5	6488
7.7	30	2310.000004	4	6488
7.7	40	2310.000010	10	6488
7.7	50	2309.999996	-4	6488

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Reference Freq.:	LTE B38 Mid Channel		2595	MHz 10M QPSK CH 38000
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
8.855	25	2595.000002	2	6488
7.7	25	2594.999980	-20	6488
6.545	25	2595.000001	1	6488
6.2 (End Point)	25	2595.000007	7	6488
Freq. ERROR vs. Temp.				
7.7	-30	2594.999976	-24	6488
7.7	-20	2595.000016	16	6488
7.7	-10	2594.999992	-8	6488
7.7	0	2595.000012	12	6488
7.7	10	2595.000010	10	6488
7.7	20	2594.999976	-24	6488
7.7	30	2595.000010	10	6488
7.7	40	2594.999984	-16	6488
7.7	50	2594.999979	-21	6488

Reference Freq.:	LTE B41 Mid Channel		2605	MHz 10M QPSK CH 40740
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
8.855	25	2604.999983	-17	6488
7.7	25	2604.999996	-4	6488
6.545	25	2605.000000	0	6488
6.2 (End Point)	25	2604.999992	-8	6488
Freq. ERROR vs. Temp.				
7.7	-30	2605.000003	11	6488
7.7	-20	2604.999995	3	6488
7.7	-10	2604.999993	1	6488
7.7	0	2605.000012	20	6488
7.7	10	2604.999996	4	6488
7.7	20	2604.999992	-8	6488
7.7	30	2604.999977	-15	6488
7.7	40	2605.000001	9	6488
7.7	50	2604.999995	3	6488

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Reference Freq.:	LTE B66 Mid Channel		1745	MHz 10M QPSK CH 132322
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
8.855	25	1744.999987	-13	6488
7.7	25	1745.000013	13	6488
6.545	25	1745.000003	3	6488
6.2	25	1745.000002	2	6488
(End Point)				
Freq. ERROR vs. Temp.				
7.7	-30	1744.999983	-17	6488
7.7	-20	1745.000010	10	6488
7.7	-10	1744.999982	-18	6488
7.7	0	1745.000019	19	6488
7.7	10	1745.000019	19	6488
7.7	20	1744.999999	-1	6488
7.7	30	1744.999991	-9	6488
7.7	40	1745.000016	16	6488
7.7	50	1745.000010	10	6488

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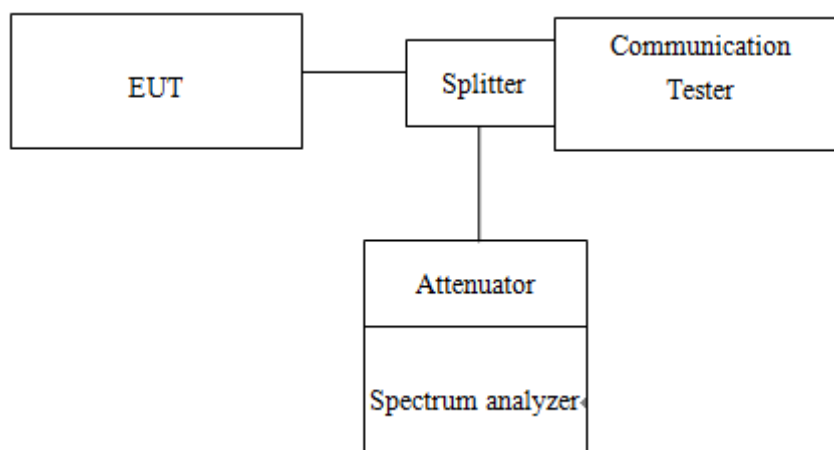
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12. PEAK TO AVERAGE RATIO

12.1. Standard Applicable

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

12.2. Test SET-UP



12.3. Measurement Procedure

1. KDB 971168 D01 is employed as the following procedure is proper adjusted accordingly:
2. Set resolution/measurement bandwidth $\geq$ signal's occupied bandwidth; & internal = 1ms
3. Set the number of counts to a value that stabilizes the measured CCDF curve.

12.4. Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	06/20/2017	06/19/2018
Communication Tester	Anritsu	MT8820C	6201107337	06/11/2017	06/10/2018
Coaxial Cable 30cm	WOKEN	00100A1F1A19 5C	RF01	12/24/2017	12/23/2018
Temperature Chamber	TERCHY	MHK-120LK	1020582	06/13/2017	06/12/2018
DC Block	PASTERNAK	PE8210	RF29	12/24/2017	12/23/2018
Splitter	RF-LAMBDA	RFLT2W1G18G	RF35	12/24/2017	12/23/2018
Attenuator	WOKEN	218FS-10	RF23	12/24/2017	12/23/2018
DC Power Supply	Agilent	E3640A	MY53140006	05/02/2017	05/01/2018

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12.5. Measurement Result

Tabular Results:

Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA II	HSDPA II	HSUPA II
1852.4	9262	3.44	3.98	4.05
1880	9400	3.51	3.87	4.19
1907.6	9538	3.45	4.05	4.19

Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA IV	HSDPA IV	HSUPA IV
1712.4	1312	3.32	3.99	3.80
1732.6	1413	3.42	3.97	3.82
1752.6	1513	3.29	3.74	3.87

Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA V	HSDPA V	HSUPA V
826.4	4132	3.25	4.08	3.74
836.6	4183	3.25	3.85	3.63
846.6	4233	2.98	3.70	3.68

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LTE BAND 2							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
1850.70	18607	6.98	13	1851.50	18615	6.77	13
1880.00	18900	7.22	13	1880.00	18900	6.70	13
1909.30	19193	6.58	13	1908.50	19185	6.68	13
LTE BAND 2							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
1852.50	18625	6.86	13	1855.00	18650	6.67	13
1880.00	18900	6.71	13	1880.00	18900	6.61	13
1907.50	19175	6.67	13	1905.00	19150	6.59	13
LTE BAND 2							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
1857.50	18675	6.16	13	1860.00	18700	6.71	13
1880.00	18900	6.26	13	1880.00	18900	6.65	13
1902.50	19125	6.25	13	1900.00	19100	6.66	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
1710.70	19957	6.48	13	1711.50	19965	6.41	13
1732.50	20175	6.84	13	1732.50	20175	6.71	13
1754.30	20393	6.55	13	1753.50	20385	6.62	13

LTE BAND 4							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
1712.50	19957	6.44	13	1715.00	20000	6.42	13
1732.50	20175	6.56	13	1732.50	20175	6.65	13
1752.50	20375	6.45	13	1750.00	20350	6.36	13

LTE BAND 4							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
1717.50	20025	6.27	13	1720.00	20050	6.76	13
1732.50	20175	6.40	13	1732.50	20175	6.84	13
1747.50	20325	6.17	13	1745.00	20300	6.71	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
824.70	20407	5.23	13	825.50	20415	5.46	13
836.50	20525	6.66	13	836.50	20525	6.39	13
848.30	20643	5.94	13	847.50	20635	5.79	13

LTE BAND 5							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
826.50	20425	5.37	13	829.00	20450	5.58	13
836.50	20525	6.44	13	836.50	20525	6.38	13
846.50	20625	5.27	13	844.00	20600	5.62	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
2502.50	20775	5.73	13	2505.00	20800	5.97	13
2535.00	21100	5.95	13	2535.00	21100	6.03	13
2567.50	21375	5.94	13	2565.00	21350	6.11	13

LTE BAND 7							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
2507.50	20825	6.06	13	2510.00	20850	6.58	13
2535.00	21100	6.15	13	2535.00	21100	6.65	13
2562.50	21375	6.14	13	2560.00	21350	6.69	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
699.70	23017	6.26	13	700.50	23025	6.19	13
707.50	23095	6.15	13	707.50	23095	6.36	13
715.30	23173	6.36	13	714.50	23165	6.35	13

LTE BAND 12							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
701.50	23035	6.19	13	704.00	23060	6.42	13
707.50	23095	6.28	13	707.50	23095	6.54	13
713.50	23155	6.28	13	711.00	23130	6.33	13

LTE BAND 13							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
779.50	23205	6.41	13	782.00	23230	6.29	13
782.00	23230	6.49	13				
784.50	23255	6.23	13				

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LTE BAND 17							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
706.50	23755	6.32	13	709.00	23780	6.31	13
710.00	23790	6.37	13	710.00	23790	6.22	13
713.50	23825	6.27	13	711.00	23780	6.19	13

LTE BAND 26							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
814.70	26697	6.10	13	815.50	26705	6.14	13
831.50	26865	5.82	13	831.50	26865	5.99	13
848.30	27033	6.19	13	847.50	27025	6.00	13

LTE BAND 26							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
816.50	26715	6.21	13	820.00	26750	6.30	13
831.50	26865	5.96	13	831.50	26865	5.96	13
846.50	27015	5.75	13	844.00	26990	5.89	13

LTE BAND 26							
Channel bandwidth: 15MHz							
Freq. (MHz)	CH	PAPR (dB)					
		16QAM	Limit				
822.50	26775	6.77	13				
831.50	26865	6.62	13				
841.50	26965	6.78	13				

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LTE BAND 30							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	Peak-to-		Freq. (MHz)	CH	Peak-to-	
		16QAM	Limit			16QAM	Limit
2307.50	27685	6.32	13	2310.00	27710	6.10	13
2310.00	27710	6.31	13				
2312.50	27735	6.22	13				

LTE BAND 38							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
2572.50	37775	8.79	13	2575.00	37800	7.19	13
2595.00	38000	10.05	13	2595.00	38000	11.14	13
2617.50	38225	11.41	13	2615.00	38200	9.18	13

LTE BAND 38							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
2577.50	37825	11.97	13	2580.00	37850	11.41	13
2595.00	38000	9.90	13	2595.00	38000	10.89	13
2612.50	38175	10.14	13	2610.00	38150	11.43	13

LTE BAND 41							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
2498.50	39675	10.43	13	2501.00	39700	8.43	13
2593.00	40620	10.22	13	2593.00	40620	8.39	13
2687.50	41565	10.52	13	2685.00	41540	10.08	13

LTE BAND 41							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
2503.50	39725	8.33	13	2506.00	39750	11.40	13
2593.00	40620	8.43	13	2593.00	40620	11.65	13
2682.50	41515	9.98	13	2680.00	41490	10.23	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
1710.70	131979	6.65	13	1711.50	131987	6.43	13
1745.00	132322	6.70	13	1745.00	132322	6.62	13
1779.30	132665	6.49	13	1778.50	132657	6.34	13
LTE BAND 66							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	Peak-to-		Freq. (MHz)	CH	Peak-to-	
		16QAM	Limit			16QAM	Limit
1712.50	131997	6.35	13	1715.00	132022	6.20	13
1745.00	132322	6.45	13	1745.00	132322	6.24	13
1777.50	132647	6.26	13	1775.00	132622	6.16	13
LTE BAND 66							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	Peak-to-		Freq. (MHz)	CH	Peak-to-	
		16QAM	Limit			16QAM	Limit
1717.50	132047	6.68	13	1720.00	132072	7.05	13
1745.00	132322	6.70	13	1745.00	132322	7.08	13
1772.50	132597	6.70	13	1770.00	132572	7.14	13

Measurement Results:

Please refer to next page.

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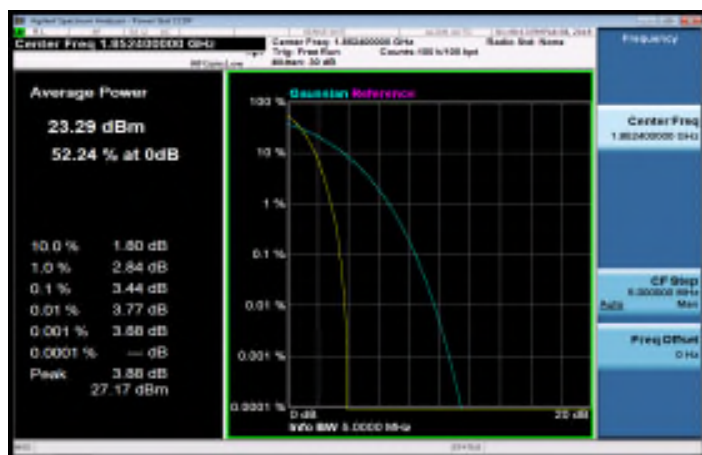
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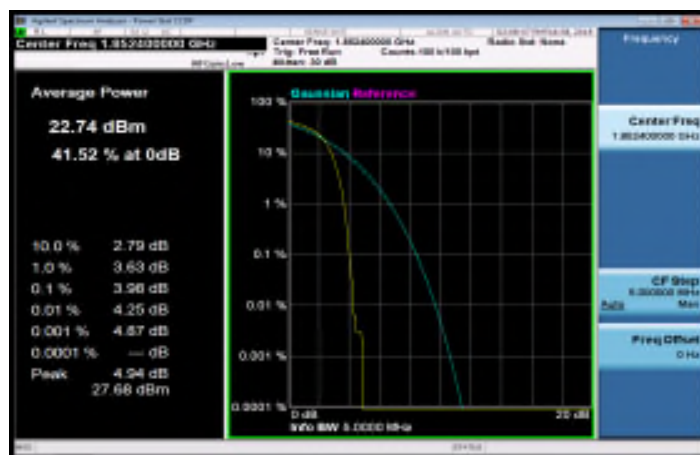
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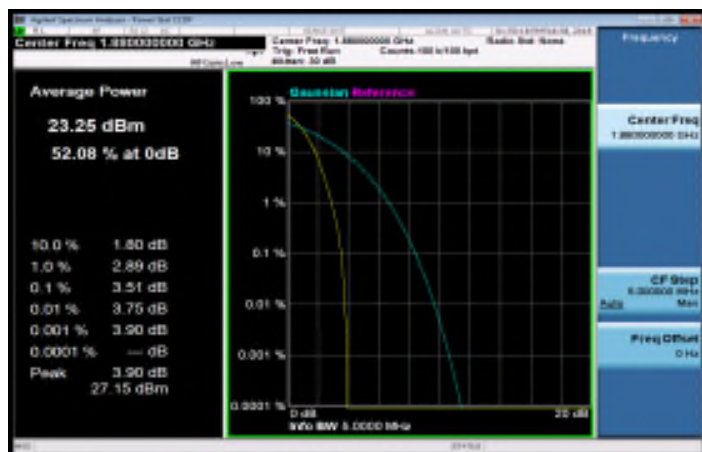
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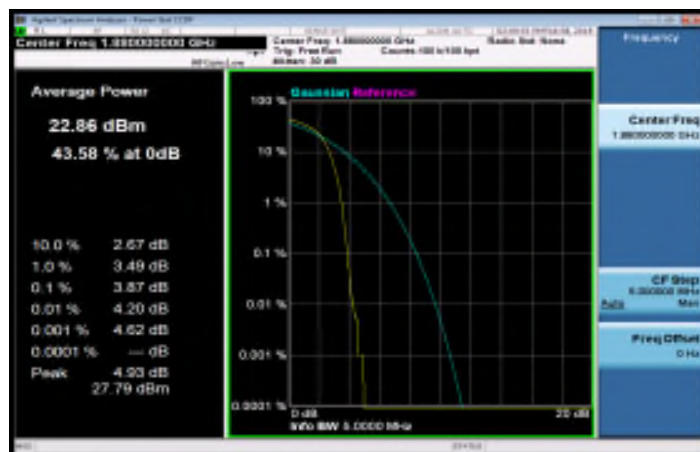
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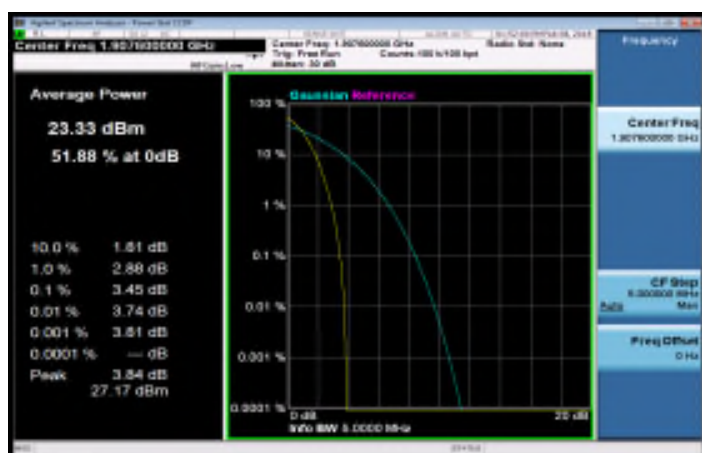
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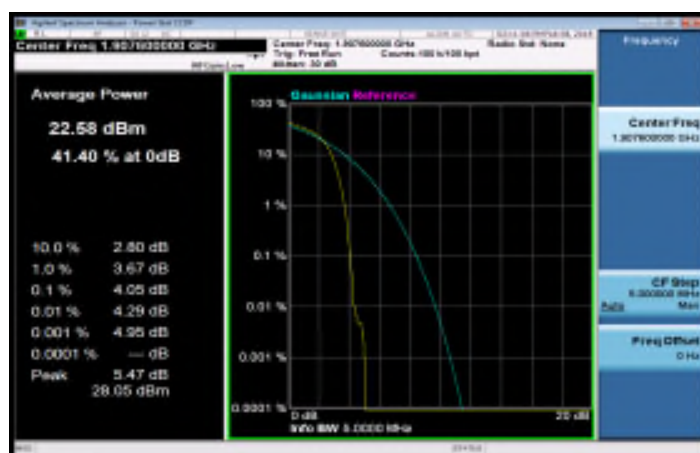
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HSDPA_B2_HighCH9538-1907.6



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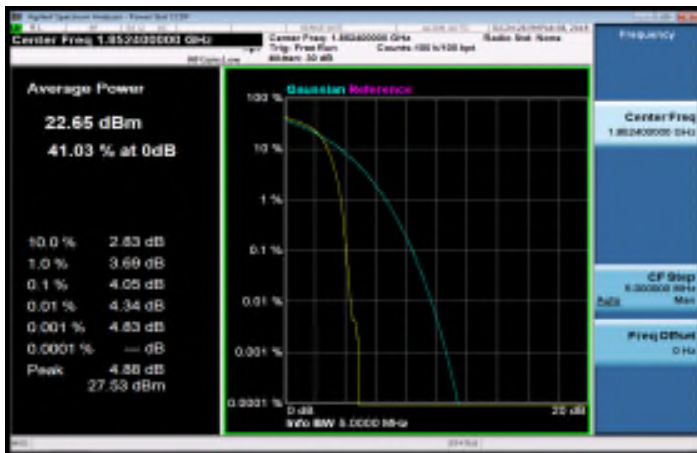
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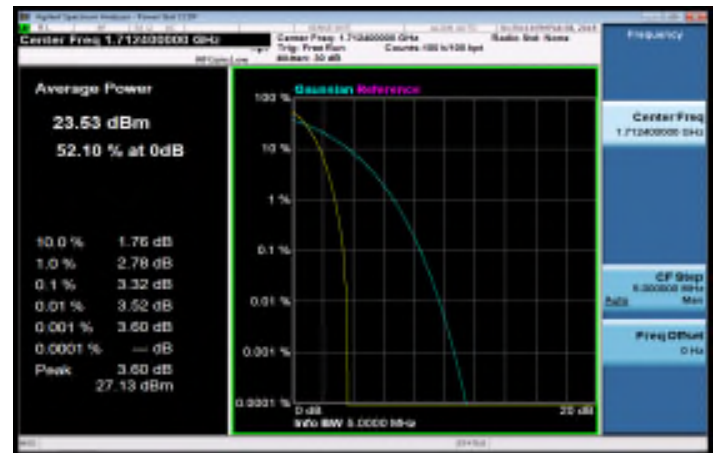
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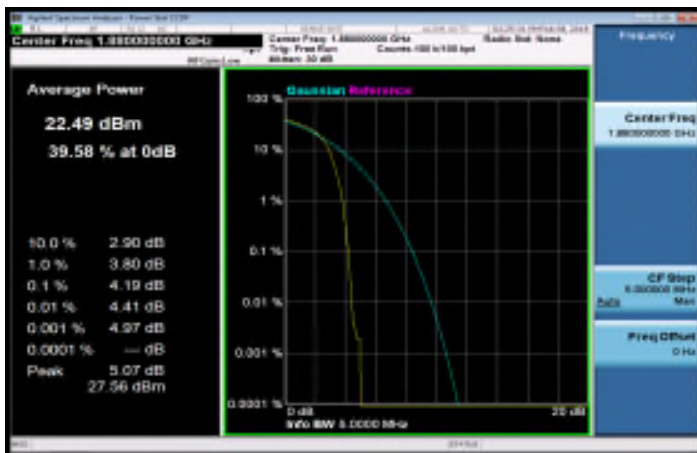
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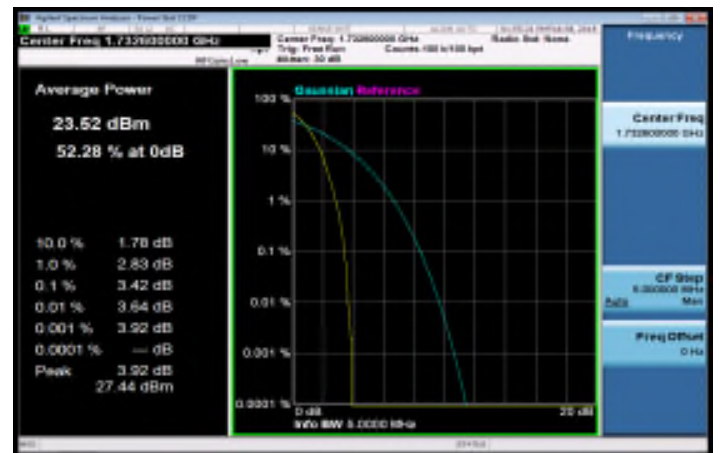
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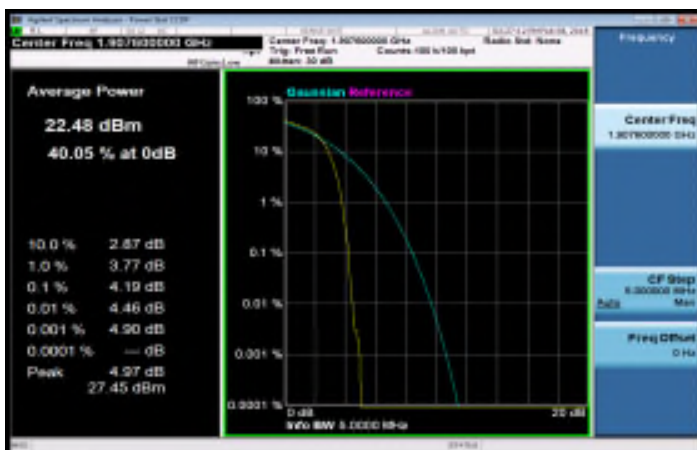
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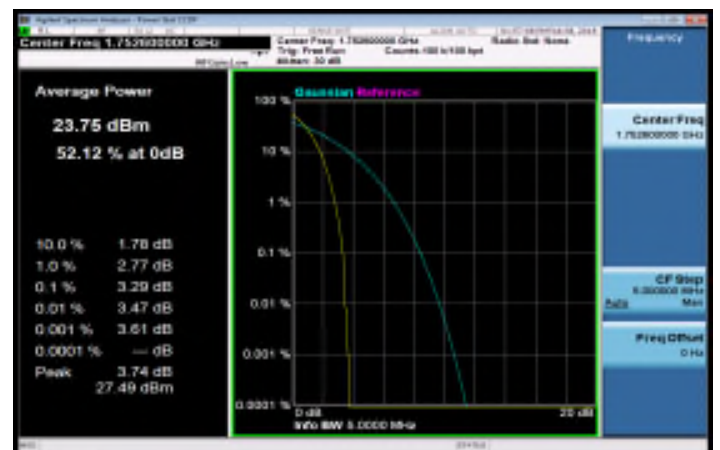
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WCDMA_B4_HighCH1513-1752.6



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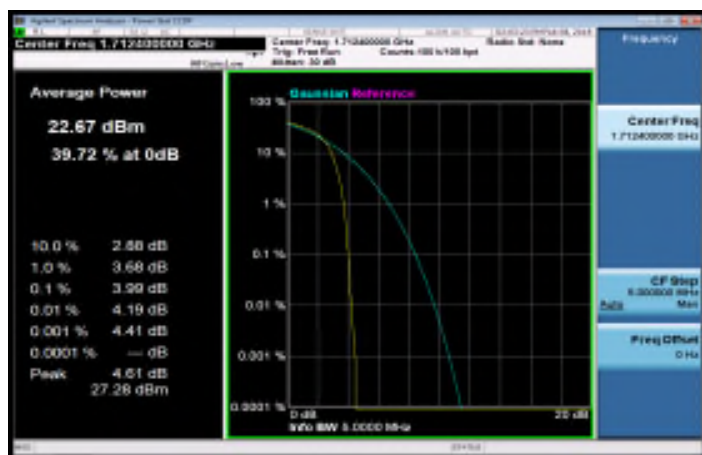
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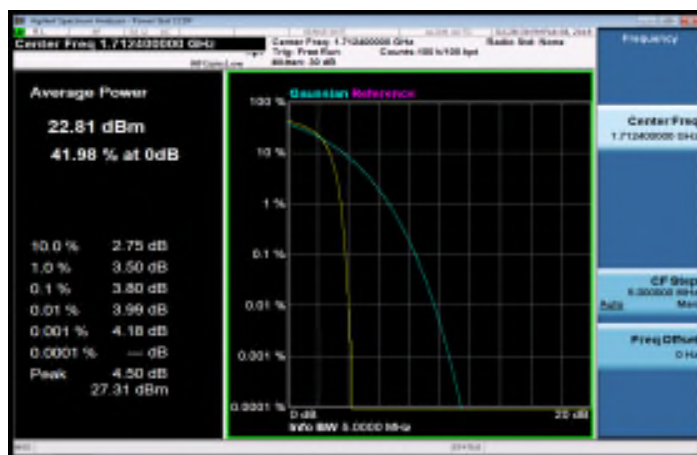
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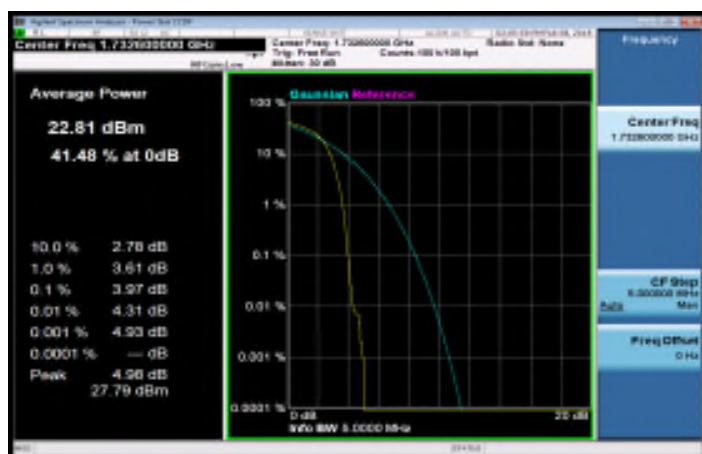
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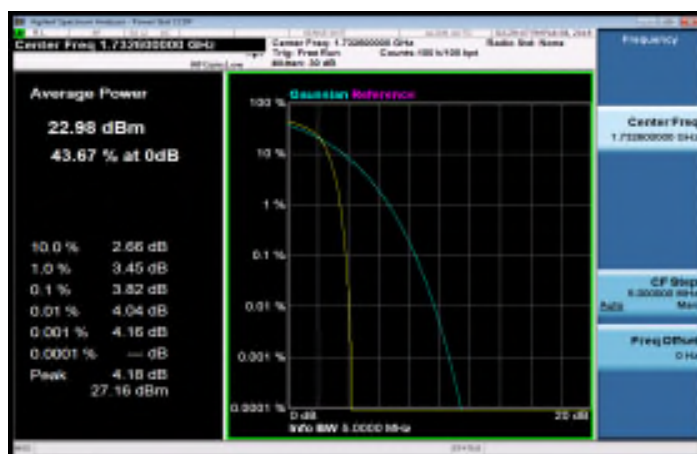
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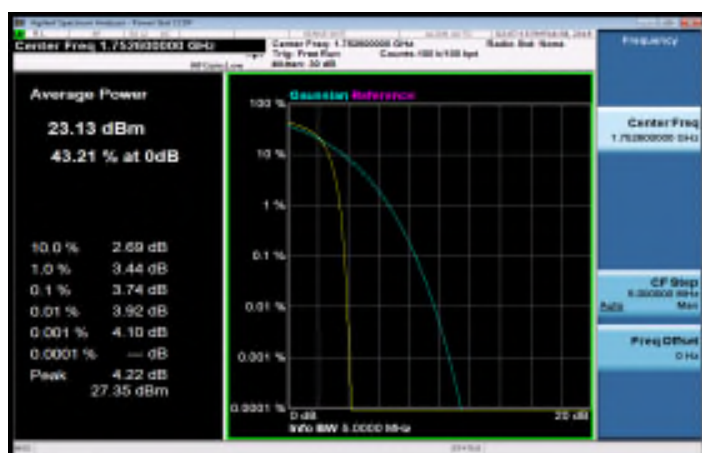
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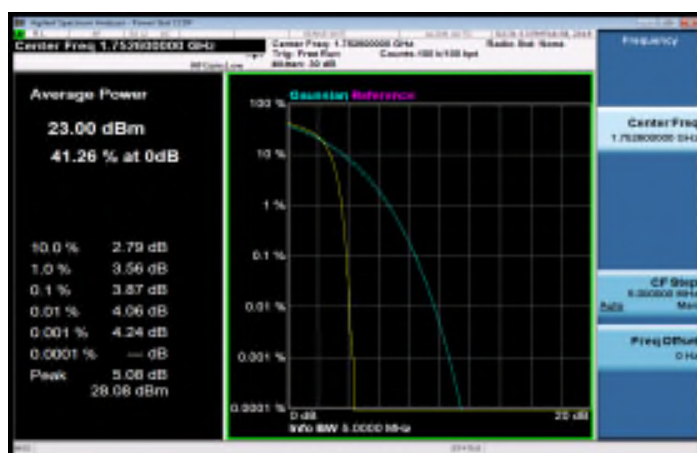
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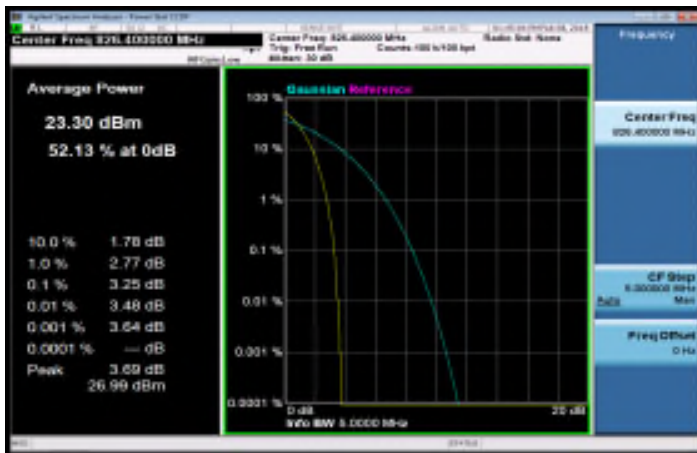
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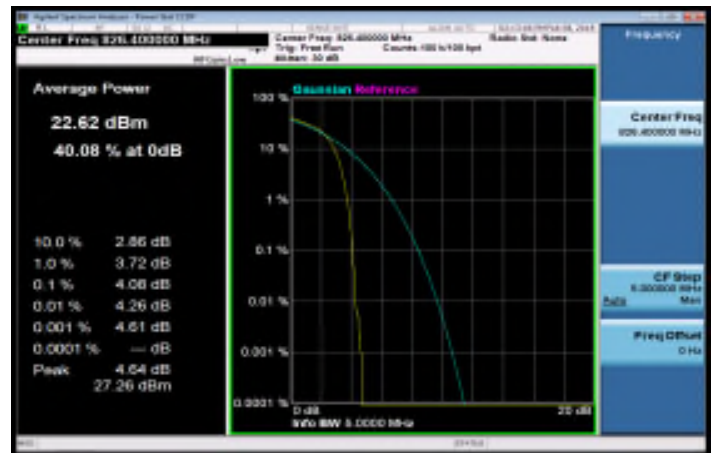
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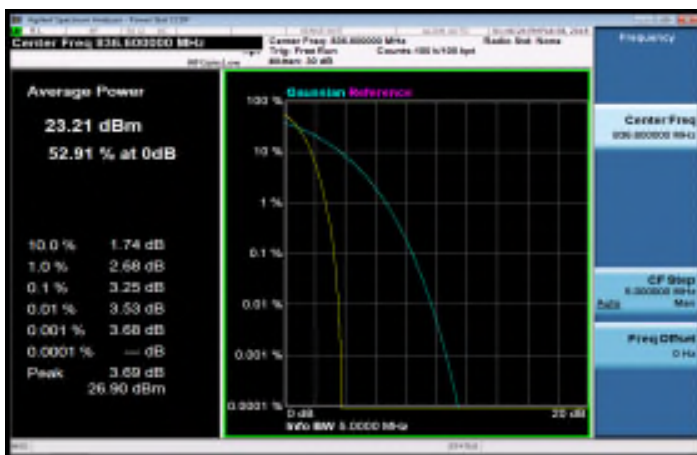
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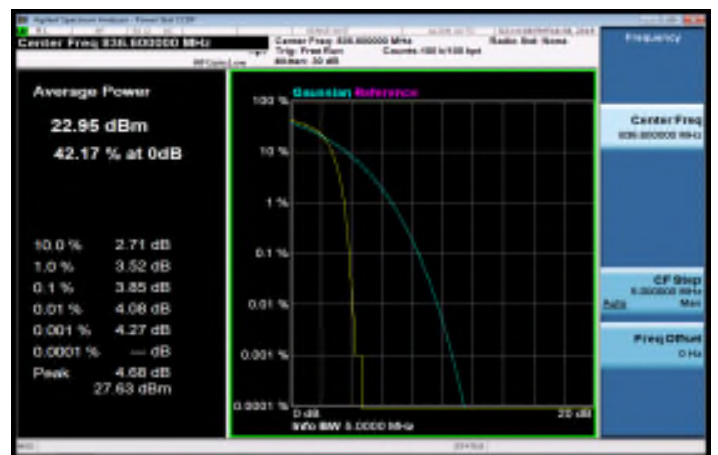
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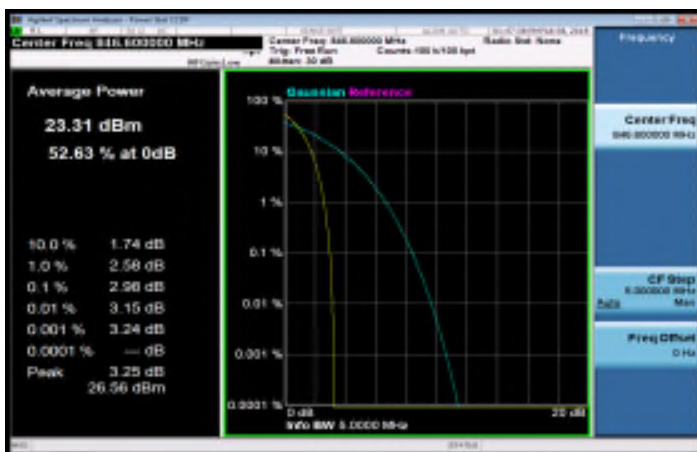
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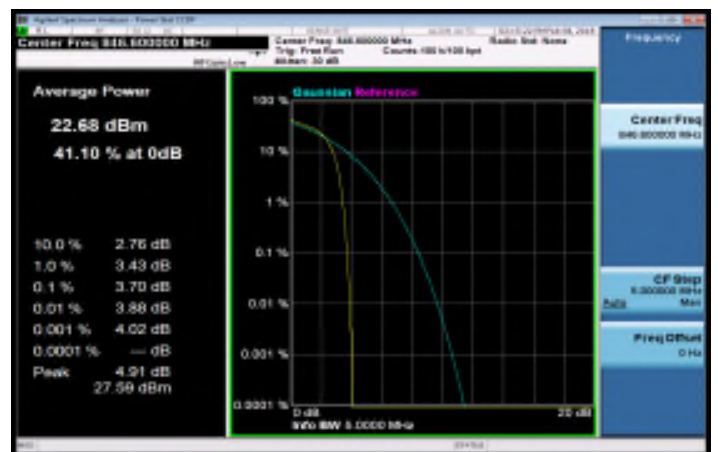
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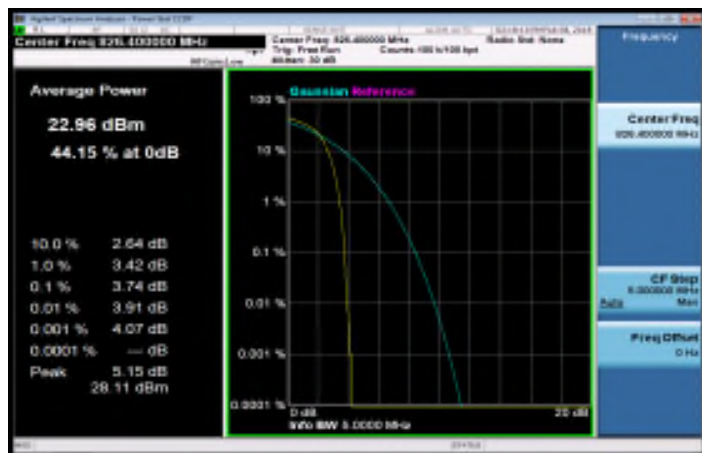
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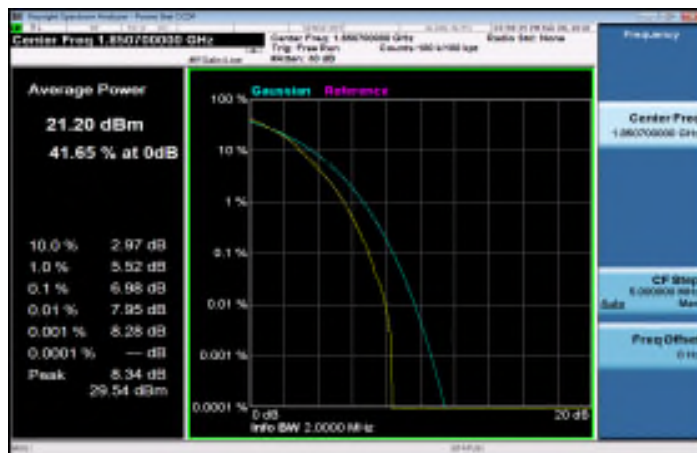
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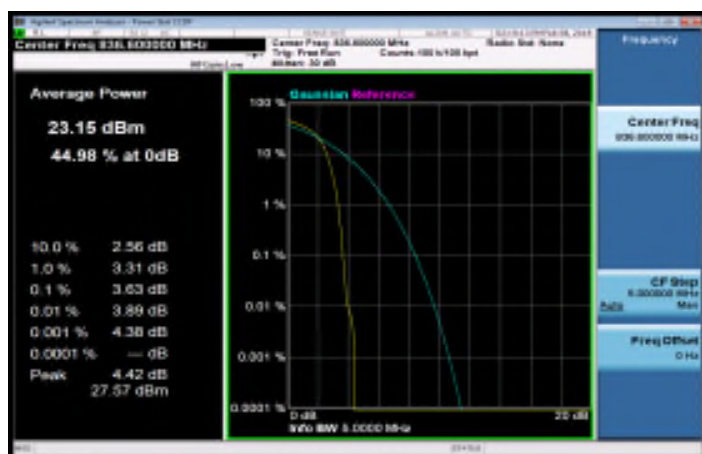
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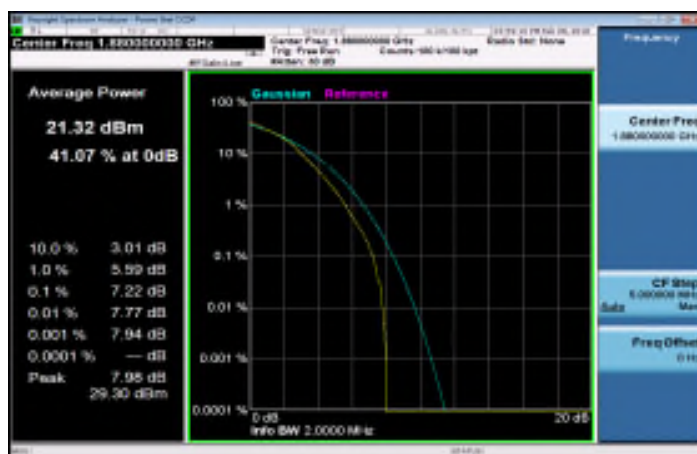
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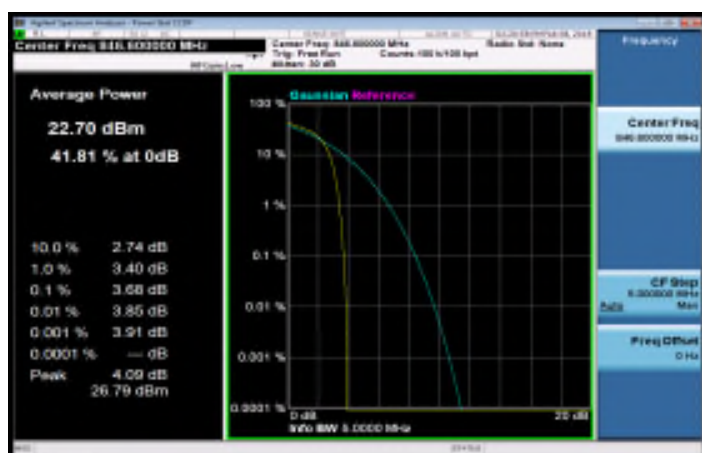
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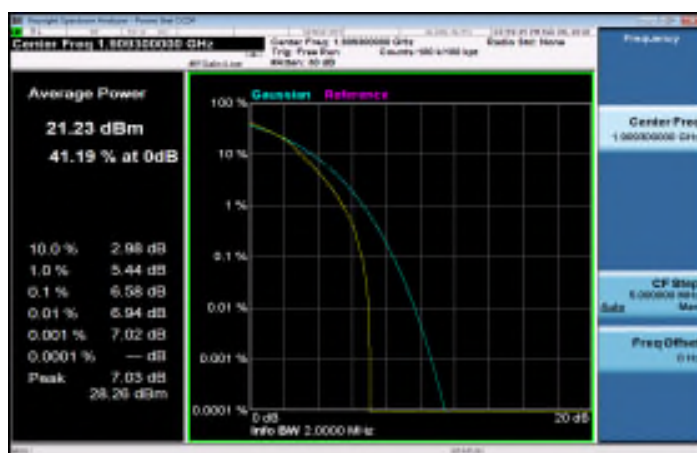
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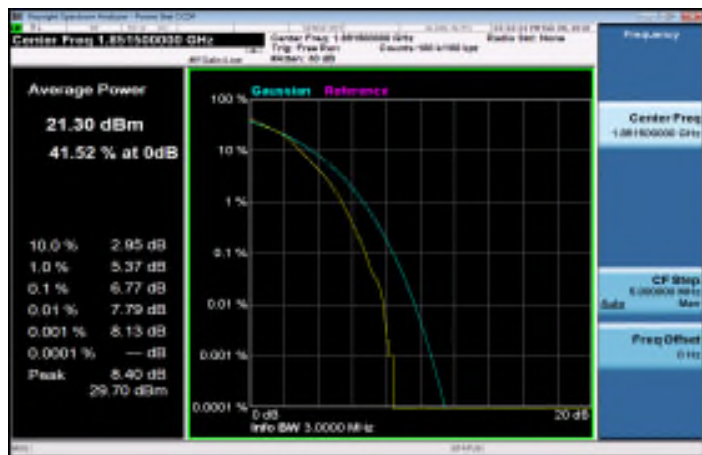
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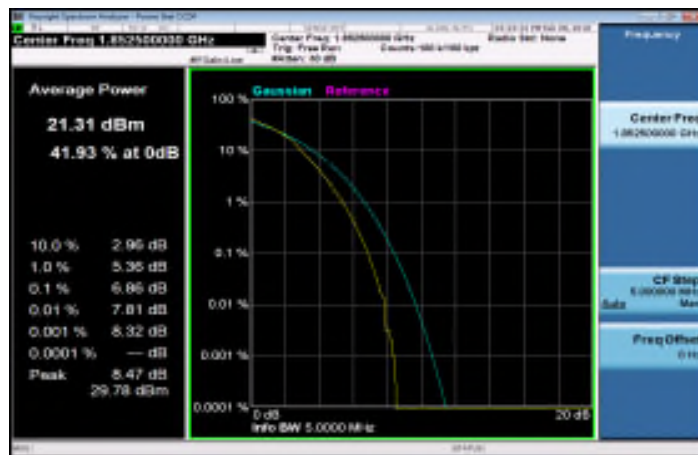
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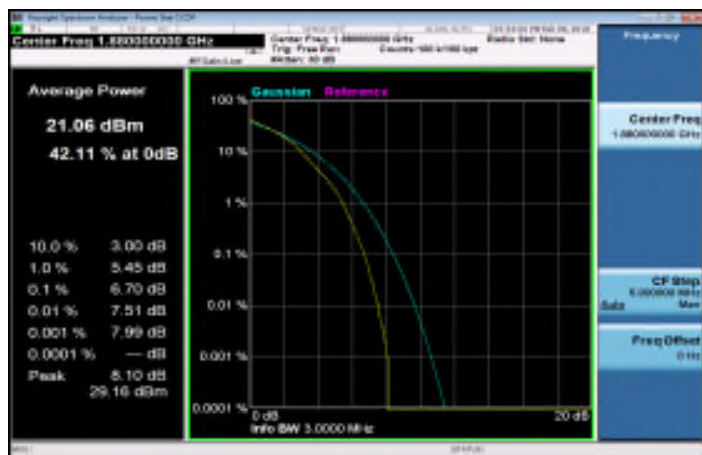
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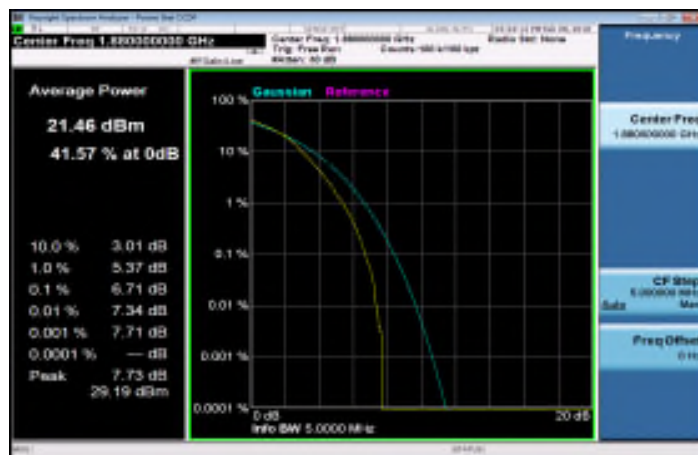
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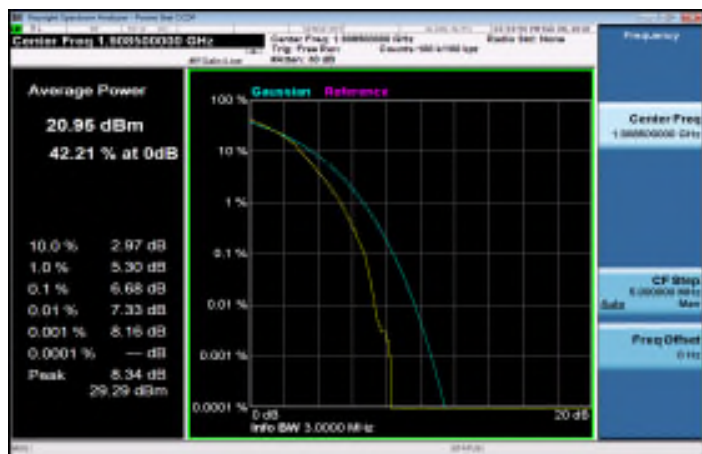
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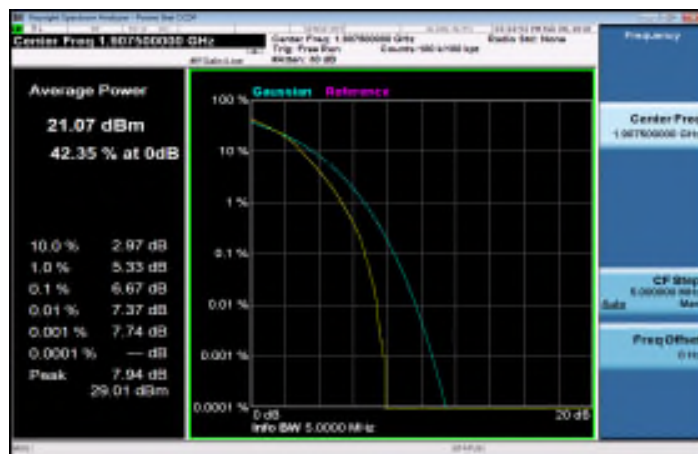
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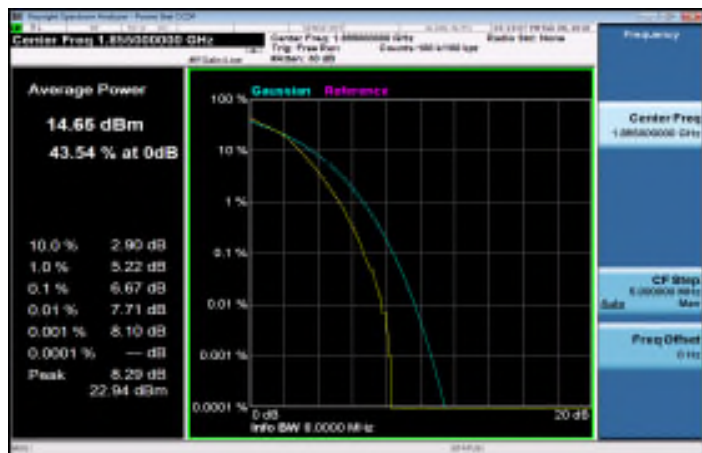
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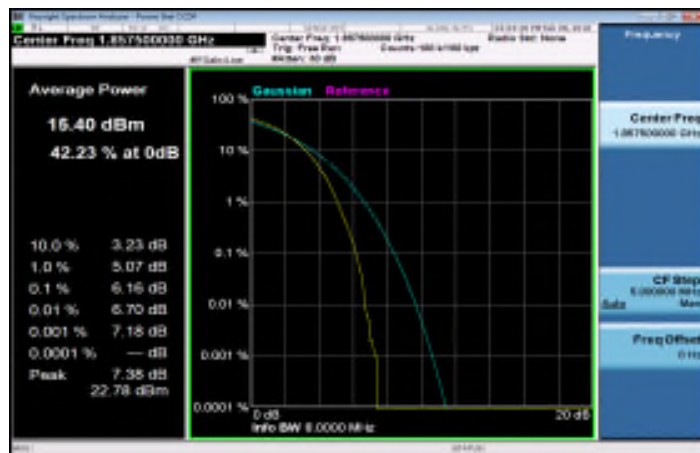
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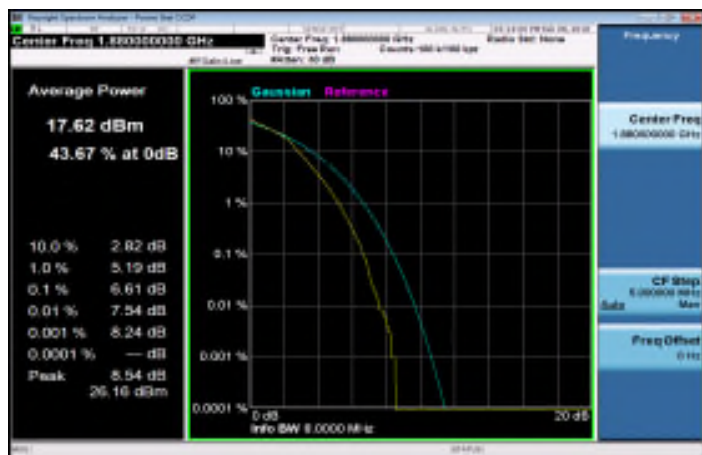
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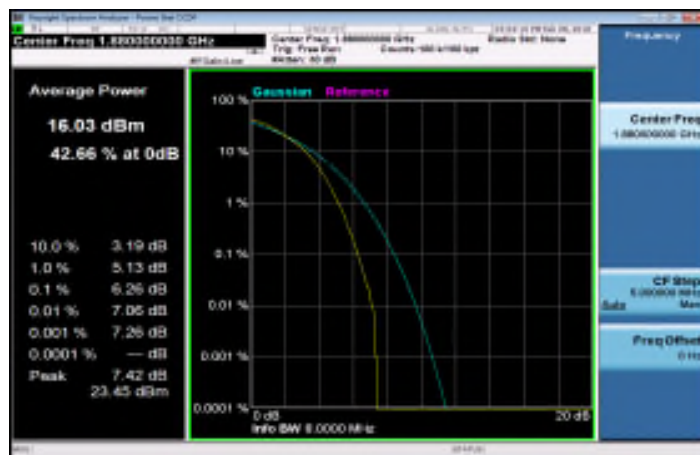
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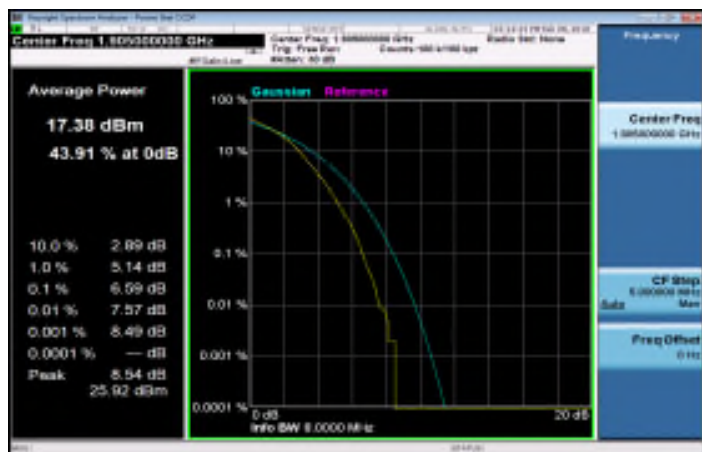
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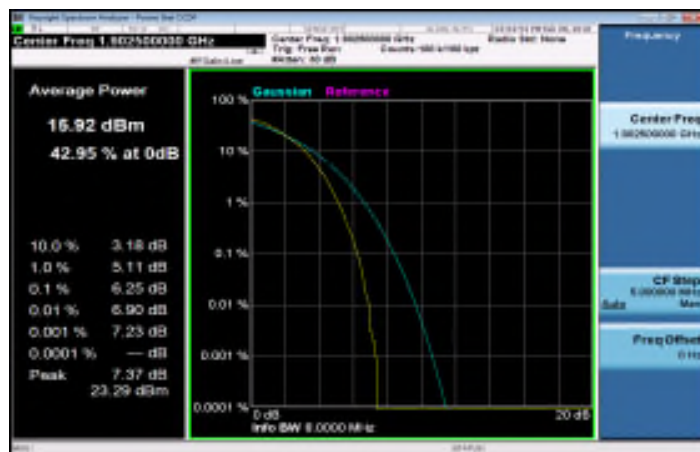
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