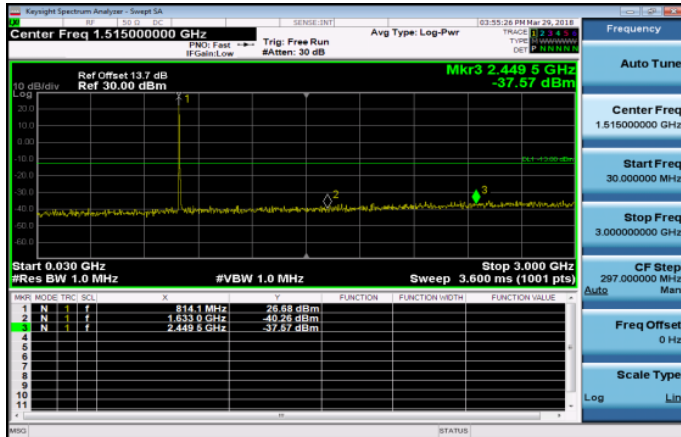
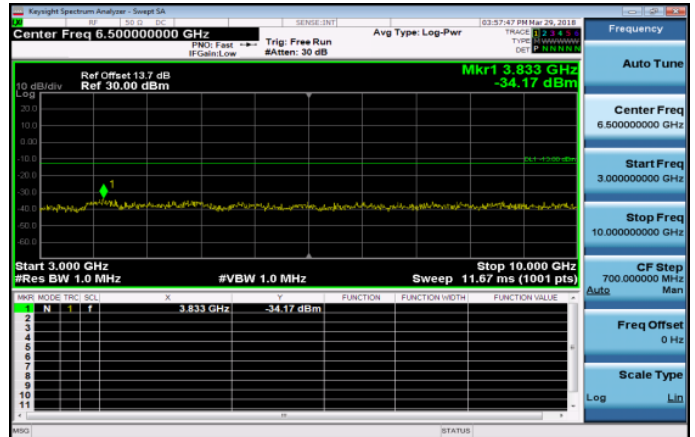


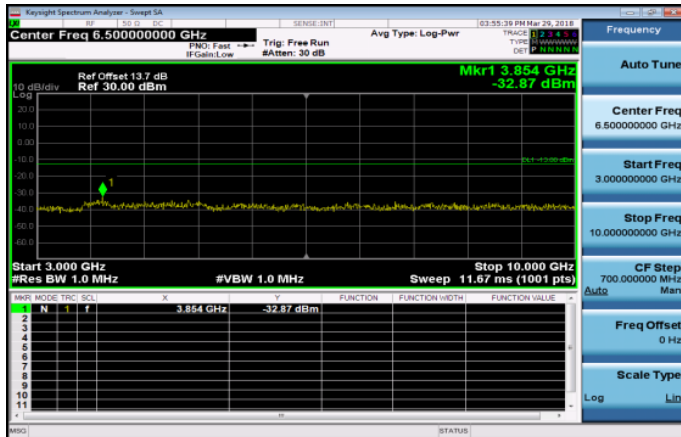
30MHz~3GHz_Band26_5MHz_QPSK_1_0_LowCH2671 5-816.5



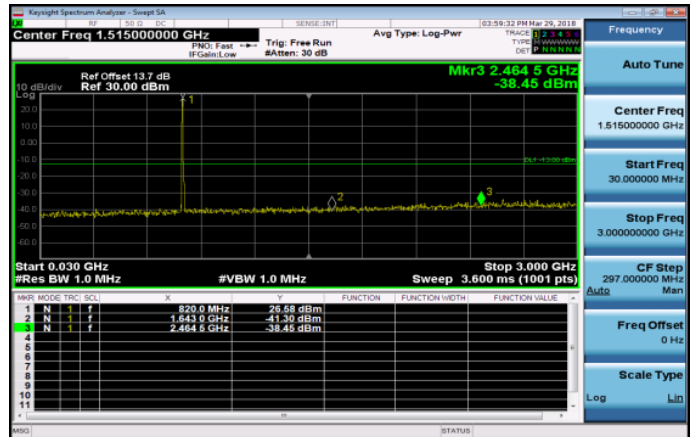
3GHz~10GHz_Band26_5MHz_QPSK_1_0_MidCH2674 0-819



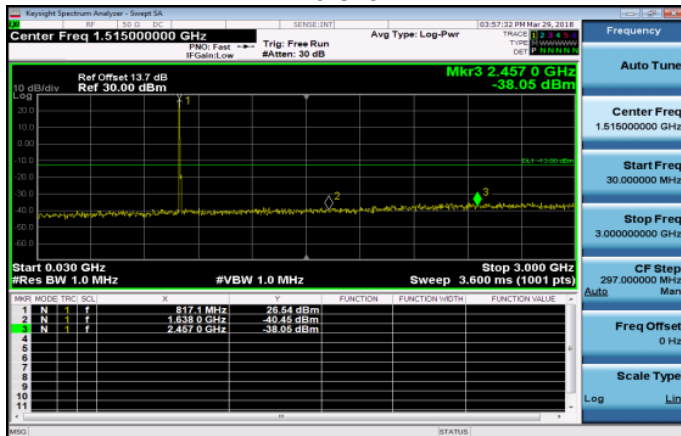
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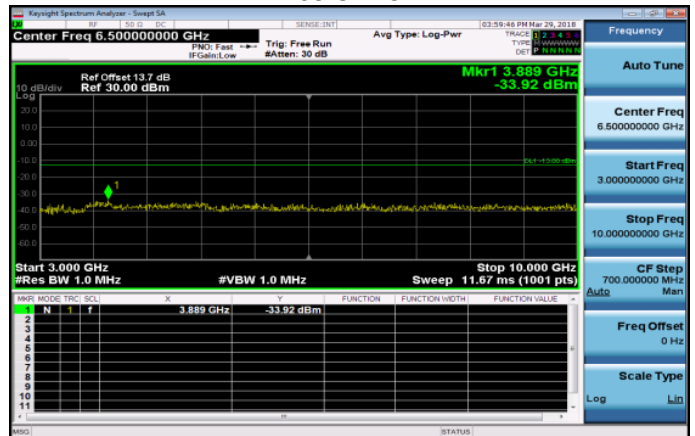
30MHz~3GHz_Band26_5MHz_QPSK_1_0_HighCH267 65-821.5



30MHz~3GHz_Band26_5MHz_QPSK_1_0_MidCH2674 0-819



3GHz~10GHz_Band26_5MHz_QPSK_1_0_HighCH267 65-821.5



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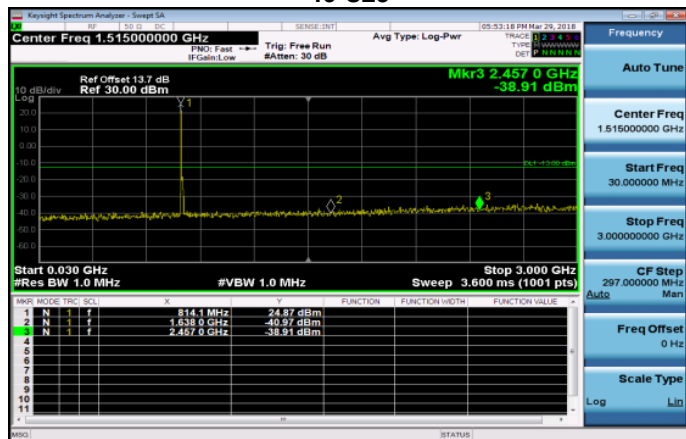
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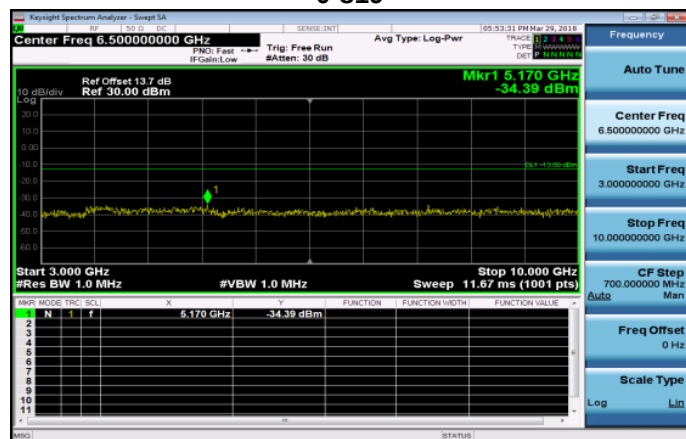
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30MHz~3GHz_Band26_10MHz_QPSK_1_0_MidCH267 40-819



3GHz~10GHz_Band26_10MHz_QPSK_1_0_MidCH2674 0-819



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

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

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

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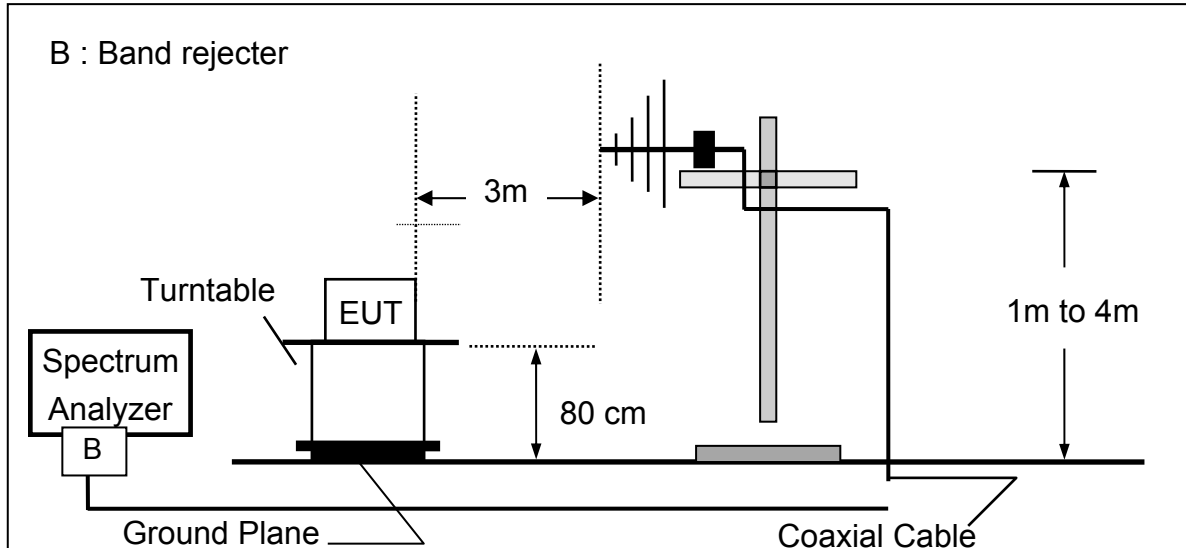
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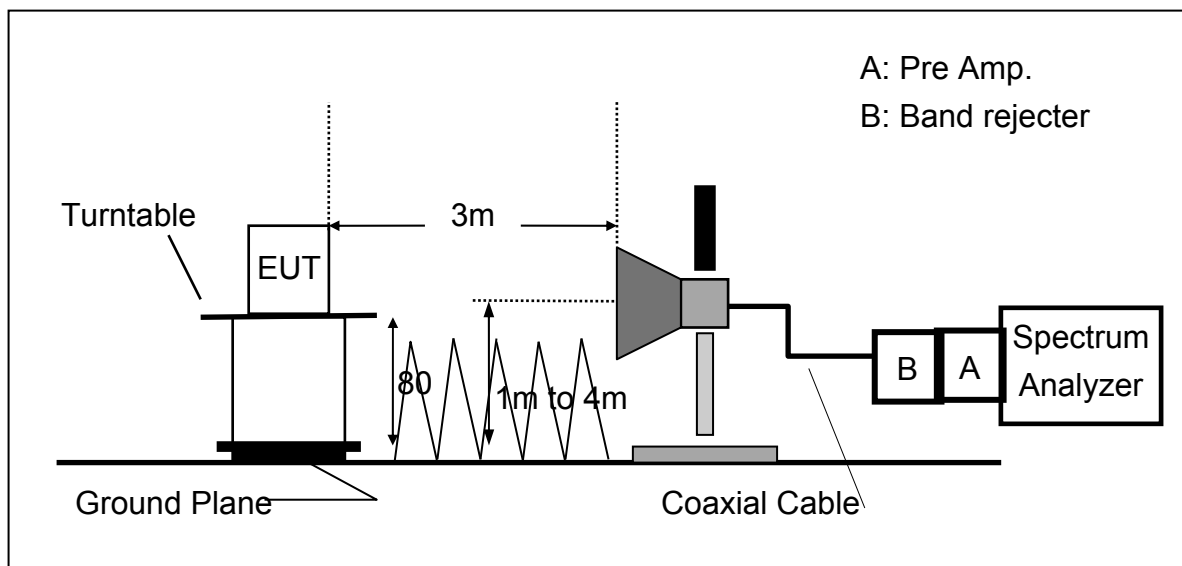
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10.2. EUT Setup

Radiated Emission Test Set-Up, Frequency Below 1000MHz



Radiated Emission Test Set-UP Frequency Over 1 GHz



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10.3. Measurement Procedure:

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

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

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

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

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

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

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10.4. Measurement Equipment Used:

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

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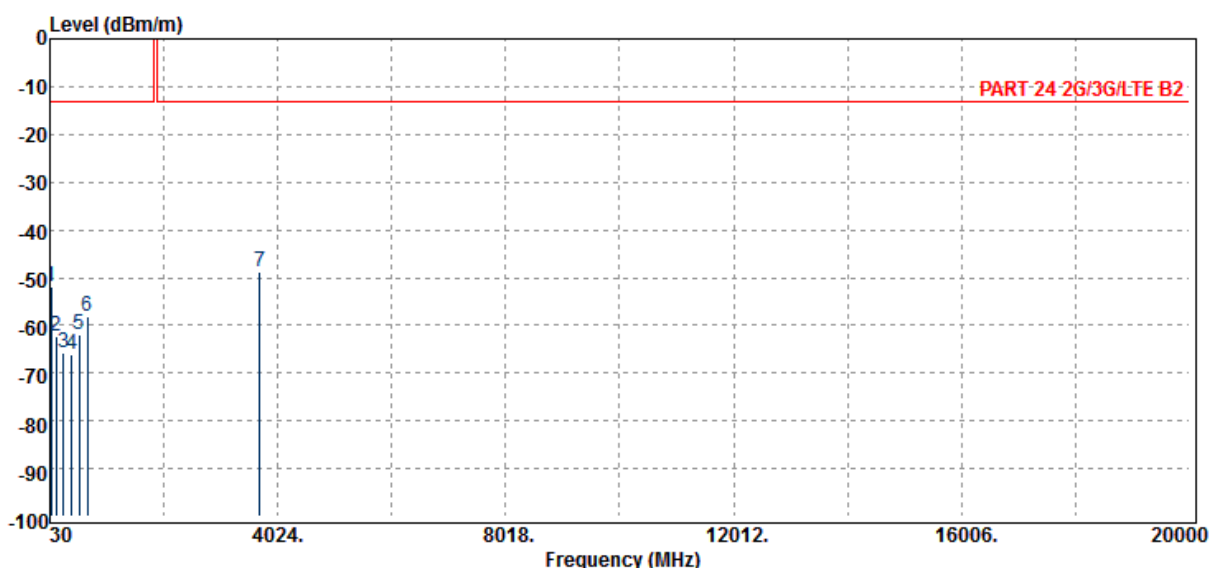
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10.5. Measurement Result:

Radiated Spurious Emission Measurement Result: HSDPA Band 2 Mode

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



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
57.16	S	-51.79	-41.49	-9.50	-0.80	-13.00	-38.79
140.58	S	-62.21	-58.67	-2.27	-1.26	-13.00	-49.21
274.44	S	-65.80	-67.53	3.46	-1.73	-13.00	-52.80
413.15	S	-66.07	-67.61	3.67	-2.13	-13.00	-53.07
546.04	S	-61.84	-64.02	3.99	-1.81	-13.00	-48.84
692.51	S	-58.00	-58.94	3.70	-2.76	-13.00	-45.00
3704.80	H	-48.86	-54.52	12.57	-6.90	-13.00	-35.86

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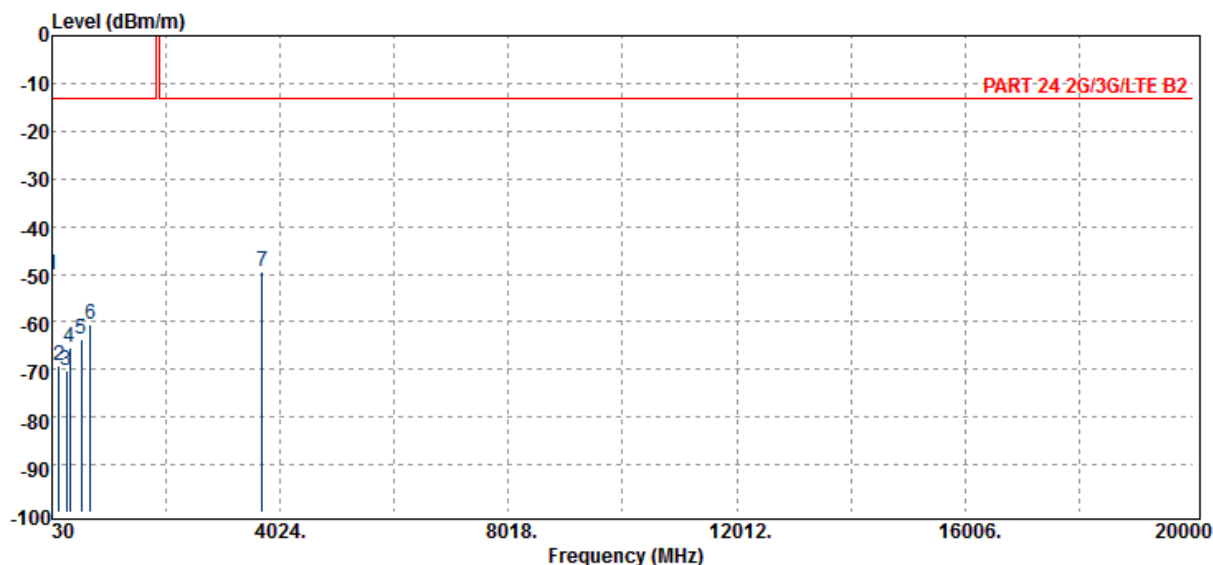
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Operation Band	:HSDPA B2	Temp./Humi.	:22 deg_C / 62 RH
Fundamental Frequency	:1852.4 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	S	-50.04	-34.88	-14.58	-0.58	-13.00	-37.04
158.04	S	-69.24	-66.59	-1.35	-1.30	-13.00	-56.24
285.11	S	-70.11	-71.77	3.42	-1.76	-13.00	-57.11
340.40	S	-65.41	-67.24	3.81	-1.98	-13.00	-52.41
548.95	S	-63.58	-65.60	3.98	-1.97	-13.00	-50.58
697.36	S	-60.46	-61.76	3.68	-2.38	-13.00	-47.46
3704.80	H	-49.50	-55.17	12.57	-6.90	-13.00	-36.50

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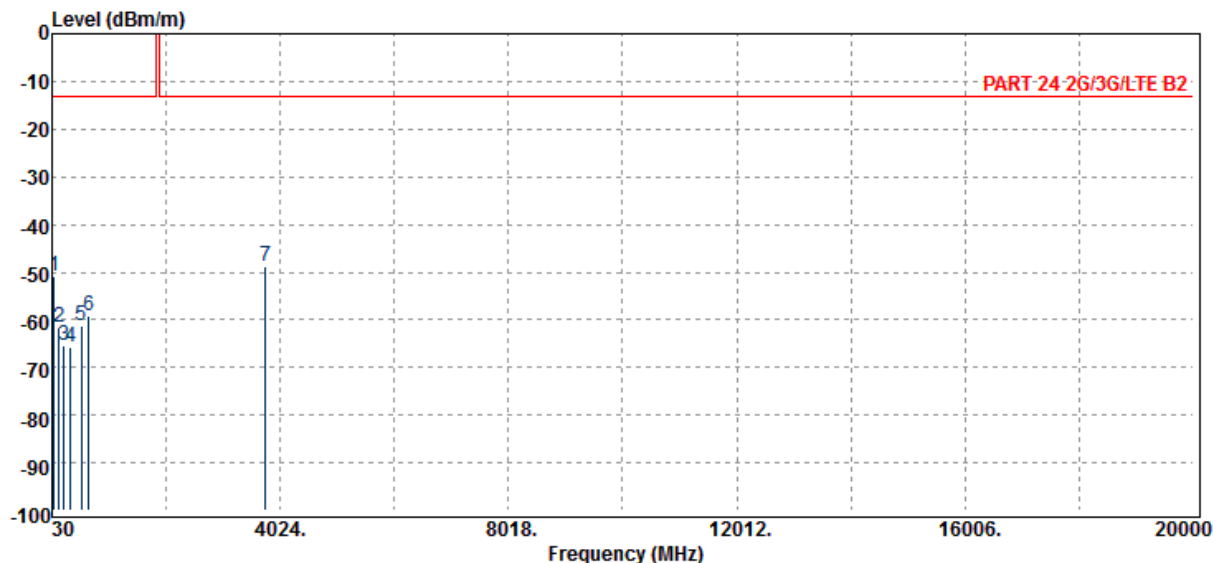
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Operation Band	:HSDPA B2	Temp./Humi.	:22 deg_C / 62 RH
Fundamental Frequency	:1880 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:H Plane	Measurement Pol.	Antenna:VERTICAL



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
61.04	S	-50.90	-41.56	-8.50	-0.83	-13.00	-37.90
146.40	S	-61.62	-58.35	-1.98	-1.29	-13.00	-48.62
245.34	S	-65.30	-67.11	3.51	-1.69	-13.00	-52.30
359.80	S	-65.76	-67.52	3.83	-2.06	-13.00	-52.76
547.01	S	-61.38	-63.50	3.98	-1.86	-13.00	-48.38
670.20	S	-59.16	-60.61	3.77	-2.31	-13.00	-46.16
3760.00	H	-48.62	-54.35	12.61	-6.89	-13.00	-35.62

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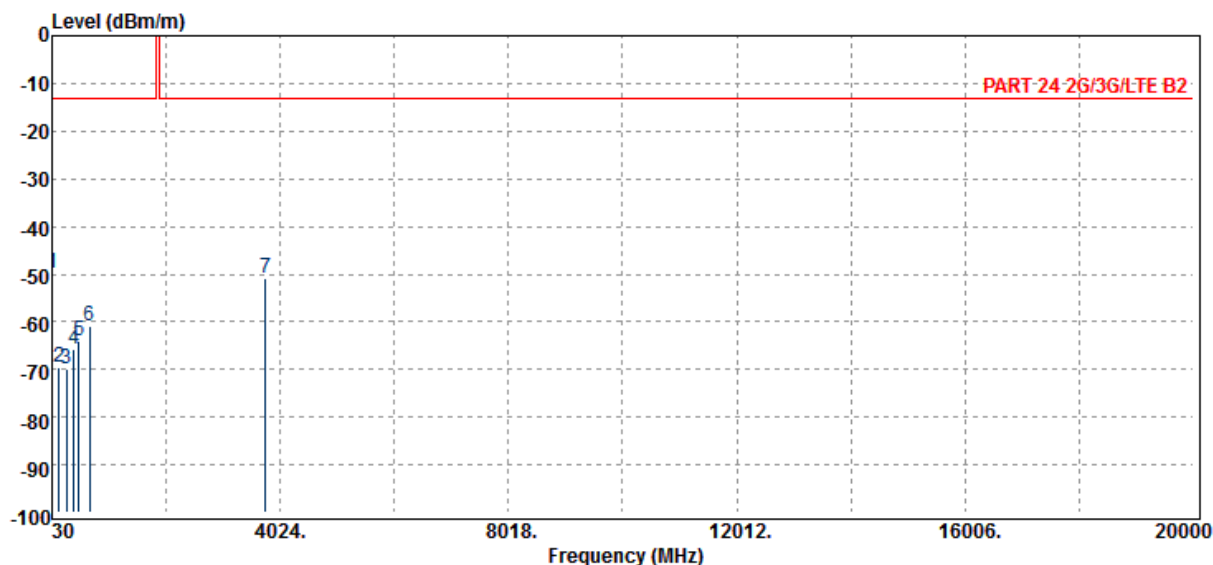
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Operation Band :HSDPA B2 Temp./Humi. :22 deg_C / 62 RH
Fundamental Frequency :1880 MHz Engineer :Tin
Operation Mode :Tx CH MID
EUT Pol. :H Plane Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
31.94	S	-49.95	-35.27	-14.08	-0.59	-13.00	-36.95
151.25	S	-69.44	-66.42	-1.73	-1.29	-13.00	-56.44
279.29	S	-70.04	-71.72	3.42	-1.74	-13.00	-57.04
418.00	S	-65.91	-67.44	3.65	-2.11	-13.00	-52.91
492.69	S	-64.04	-66.00	3.98	-2.01	-13.00	-51.04
689.60	S	-61.06	-61.78	3.71	-2.98	-13.00	-48.06
3760.00	H	-50.94	-56.67	12.61	-6.89	-13.00	-37.94

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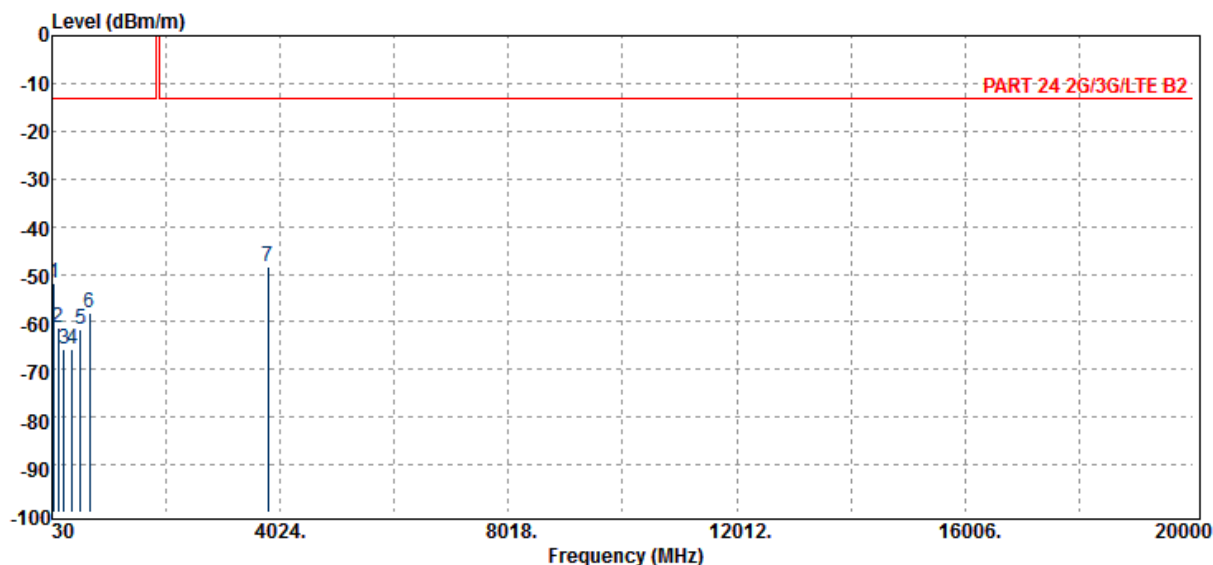
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Operation Band	:HSDPA B2	Temp./Humi.	:22 deg_C / 62 RH
Fundamental Frequency	:1907.6 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:H Plane	Measurement Pol.	Antenna:VERTICAL



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
61.04	S	-51.81	-42.47	-8.50	-0.83	-13.00	-38.81
136.70	S	-61.36	-57.93	-2.19	-1.24	-13.00	-48.36
239.52	S	-65.81	-67.61	3.47	-1.67	-13.00	-52.81
386.96	S	-65.71	-67.44	3.75	-2.02	-13.00	-52.71
532.46	S	-61.56	-63.30	4.01	-2.27	-13.00	-48.56
684.75	S	-58.13	-58.52	3.72	-3.32	-13.00	-45.13
3815.20	H	-48.31	-53.96	12.66	-7.00	-13.00	-35.31

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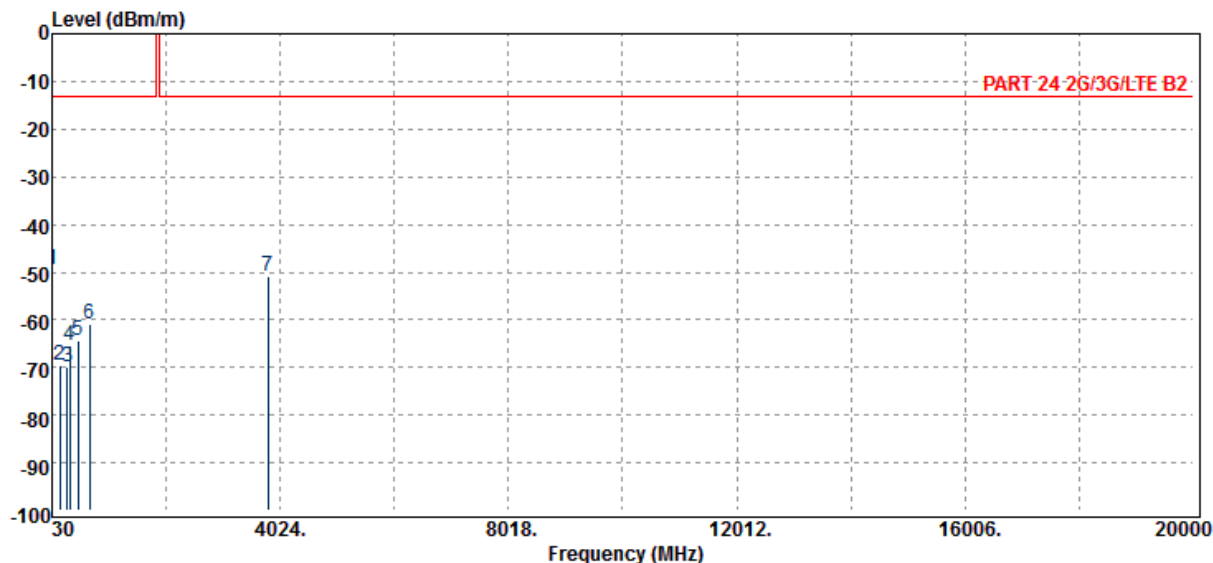
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Operation Band	:HSDPA B2	Temp./Humi.	:22 deg_C / 62 RH
Fundamental Frequency	:1907.6 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:H Plane	Measurement Pol.	Antenna :HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	S	-49.40	-34.24	-14.58	-0.58	-13.00	-36.40
168.71	S	-69.40	-67.38	-0.70	-1.33	-13.00	-56.40
299.66	S	-69.82	-71.61	3.61	-1.82	-13.00	-56.82
342.34	S	-65.32	-67.15	3.82	-1.99	-13.00	-52.32
487.84	S	-64.41	-66.46	3.93	-1.89	-13.00	-51.41
686.69	S	-60.91	-61.42	3.72	-3.21	-13.00	-47.91
3815.20	H	-50.94	-56.60	12.66	-7.00	-13.00	-37.94

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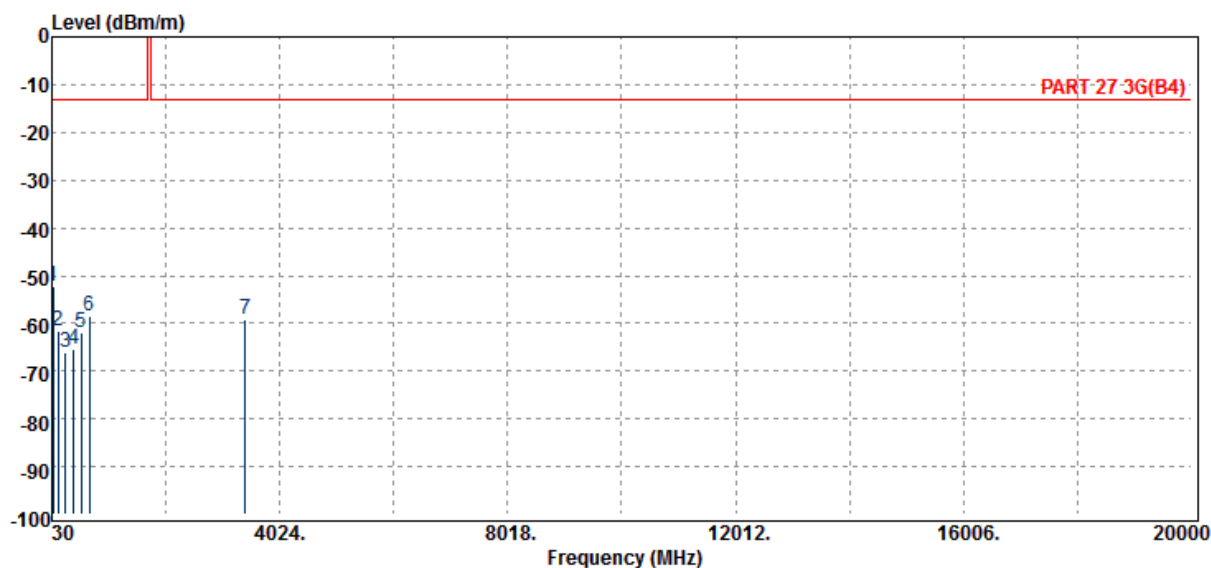
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Radiated Spurious Emission Measurement Result: HSDPA Band 4 Mode

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



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
57.16	S	-52.30	-42.00	-9.50	-0.80	-13.00	-39.30
140.58	S	-61.61	-58.07	-2.27	-1.26	-13.00	-48.61
269.59	S	-65.98	-67.77	3.51	-1.72	-13.00	-52.98
419.94	S	-65.35	-66.89	3.64	-2.11	-13.00	-52.35
548.95	S	-61.99	-64.00	3.98	-1.97	-13.00	-48.99
684.75	S	-58.37	-58.77	3.72	-3.32	-13.00	-45.37
3424.80	H	-59.12	-64.81	12.23	-6.54	-13.00	-46.12

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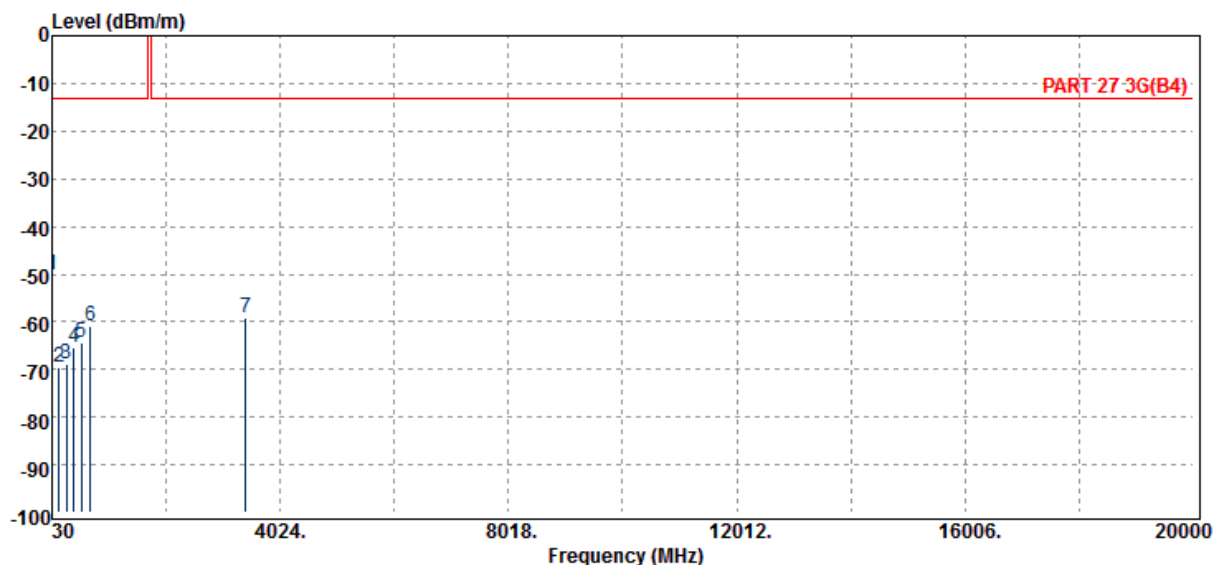
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Operation Band :HSDPA B4 Temp./Humi. :22 deg_C / 62 RH
Fundamental Frequency :1712.4 MHz Engineer :Tin
Operation Mode :Tx CH LOW
EUT Pol. :H Plane Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	S	-50.26	-35.10	-14.58	-0.58	-13.00	-37.26
159.01	S	-69.65	-67.05	-1.30	-1.30	-13.00	-56.65
280.26	S	-68.94	-70.61	3.42	-1.75	-13.00	-55.94
410.24	S	-65.50	-67.04	3.68	-2.13	-13.00	-52.50
537.31	S	-64.25	-66.19	4.00	-2.07	-13.00	-51.25
697.36	S	-60.99	-62.29	3.68	-2.38	-13.00	-47.99
3424.80	H	-59.33	-65.02	12.23	-6.54	-13.00	-46.33

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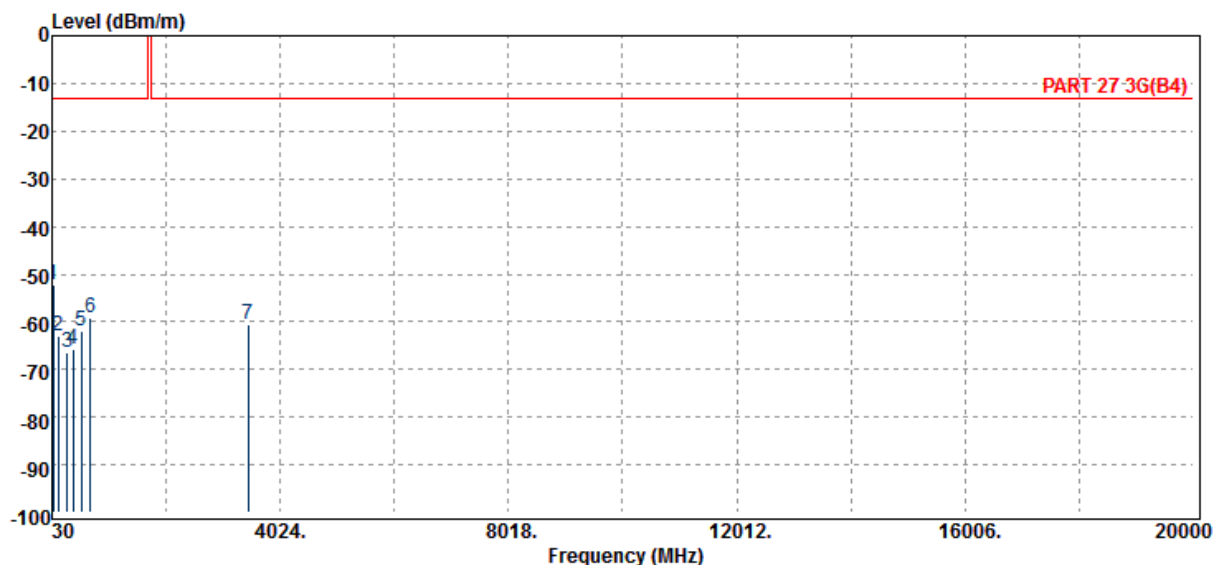
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Operation Band	:HSDPA B4	Temp./Humi.	:22 deg_C / 62 RH
Fundamental Frequency	:1732.6 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:H Plane	Measurement Pol.	Antenna:VERTICAL



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
56.19	S	-52.14	-41.62	-9.72	-0.79	-13.00	-39.14
138.64	S	-63.05	-59.54	-2.26	-1.25	-13.00	-50.05
294.81	S	-66.42	-68.13	3.52	-1.80	-13.00	-53.42
403.45	S	-65.65	-67.21	3.70	-2.14	-13.00	-52.65
536.34	S	-61.99	-63.89	4.00	-2.11	-13.00	-48.99
697.36	S	-59.01	-60.31	3.68	-2.38	-13.00	-46.01
3465.20	H	-60.61	-66.38	12.32	-6.56	-13.00	-47.61

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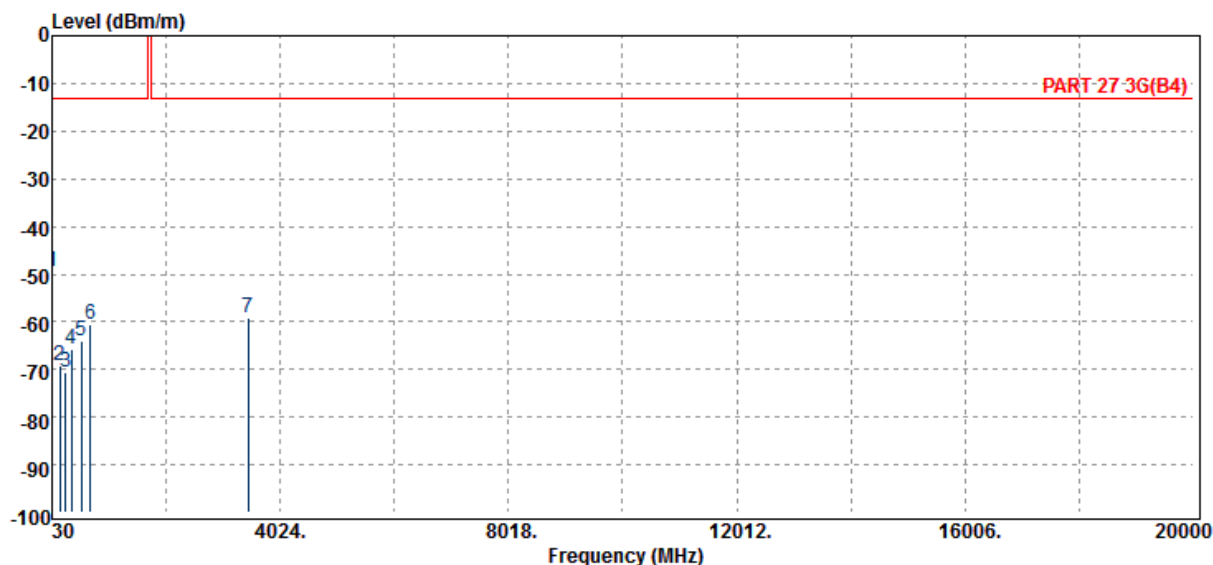
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Operation Band	:HSDPA B4	Temp./Humi.	:22 deg_C / 62 RH
Fundamental Frequency	:1732.6 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:H Plane	Measurement Pol.	Antenna :HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
31.94	S	-49.59	-34.92	-14.08	-0.59	-13.00	-36.59
173.56	S	-69.12	-67.74	-0.04	-1.35	-13.00	-56.12
265.71	S	-70.45	-72.32	3.57	-1.71	-13.00	-57.45
362.71	S	-65.74	-67.49	3.82	-2.07	-13.00	-52.74
547.01	S	-63.94	-66.06	3.98	-1.86	-13.00	-50.94
699.30	S	-60.68	-62.12	3.68	-2.24	-13.00	-47.68
3465.20	H	-59.23	-64.99	12.32	-6.56	-13.00	-46.23

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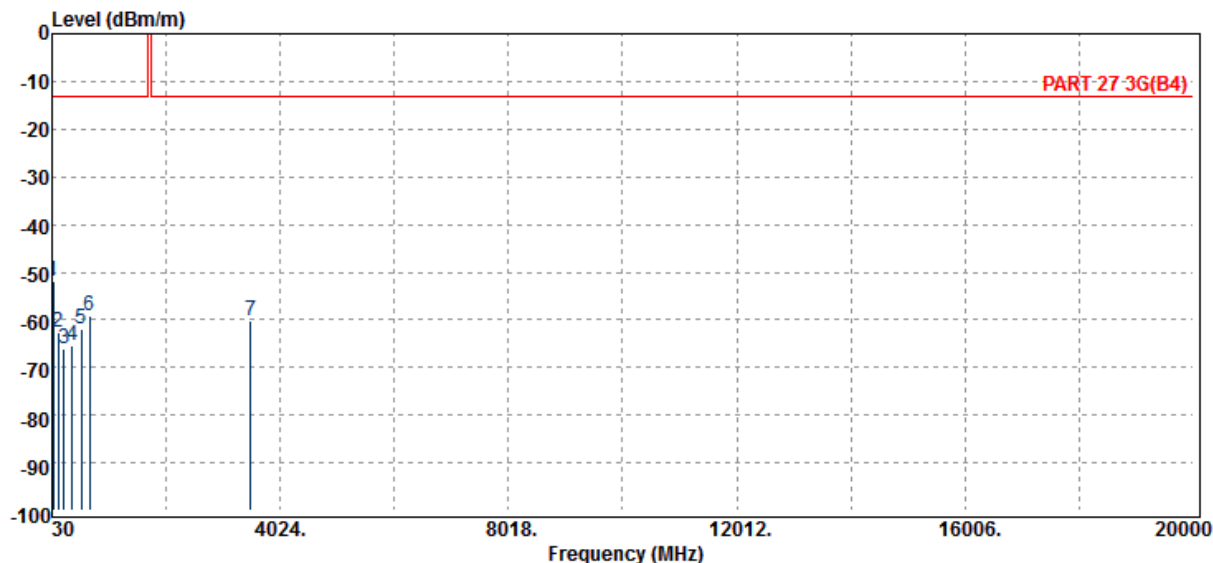
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Operation Band	:HSDPA B4	Temp./Humi.	:22 deg_C / 62 RH
Fundamental Frequency	:1752.6 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:H Plane	Measurement Pol.	Antenna:VERTICAL



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
56.19	S	-51.82	-41.31	-9.72	-0.79	-13.00	-38.82
139.61	S	-62.58	-59.03	-2.29	-1.26	-13.00	-49.58
240.49	S	-66.11	-67.91	3.48	-1.67	-13.00	-53.11
390.84	S	-65.54	-67.23	3.74	-2.05	-13.00	-52.54
539.25	S	-62.09	-64.10	4.00	-1.99	-13.00	-49.09
691.54	S	-59.11	-59.98	3.70	-2.83	-13.00	-46.11
3505.20	H	-60.25	-65.99	12.40	-6.66	-13.00	-47.25

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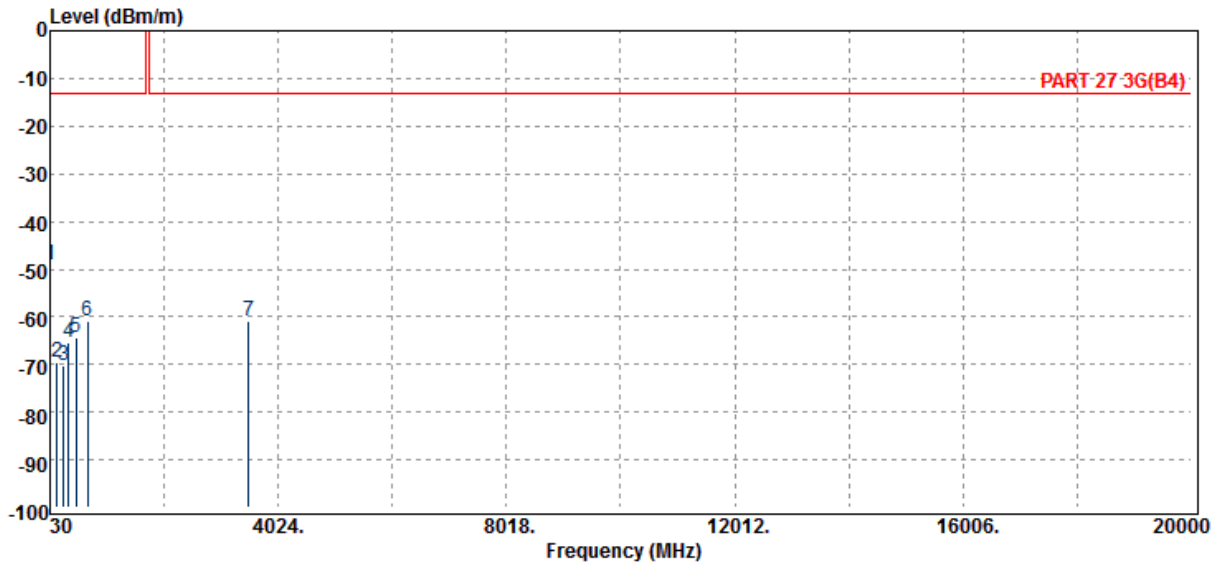
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Operation Band	:HSDPA B4	Temp./Humi.	:22 deg_C / 62 RH
Fundamental Frequency	:1752.6 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:H Plane	Measurement Pol.	Antenna :HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	S	-49.30	-34.14	-14.58	-0.58	-13.00	-36.30
151.25	S	-69.43	-66.40	-1.73	-1.29	-13.00	-56.43
274.44	S	-70.35	-72.08	3.46	-1.73	-13.00	-57.35
357.86	S	-65.42	-67.20	3.83	-2.05	-13.00	-52.42
490.75	S	-64.23	-66.23	3.96	-1.96	-13.00	-51.23
686.69	S	-60.93	-61.44	3.72	-3.21	-13.00	-47.93
3505.20	H	-60.89	-66.63	12.40	-6.66	-13.00	-47.89

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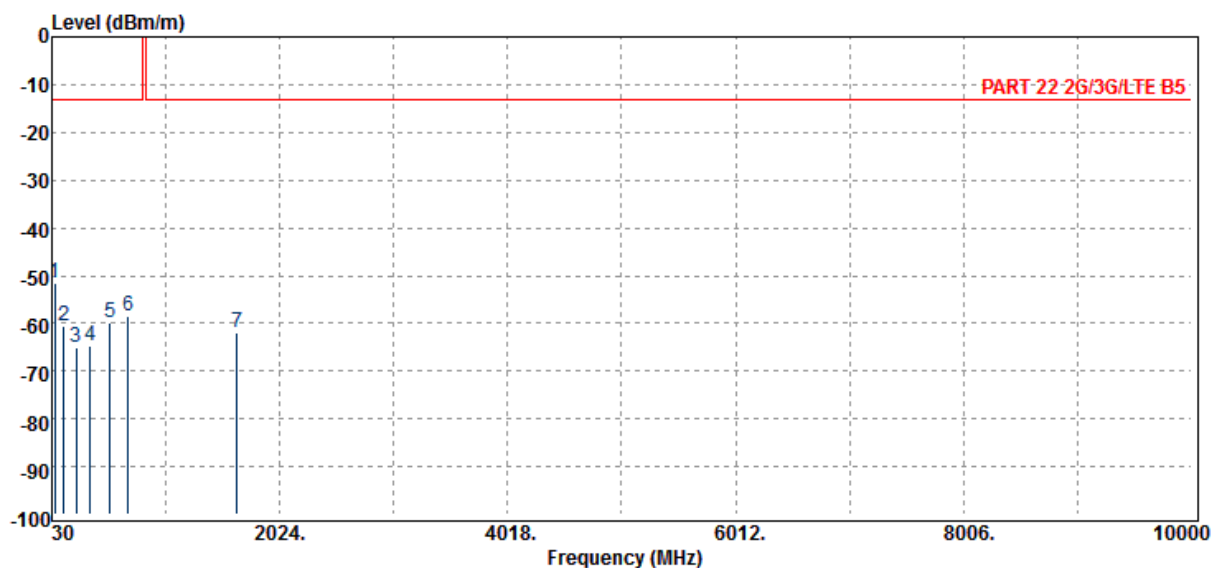
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Radiated Spurious Emission Measurement Result: HSUPA Band 5 Mode

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



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
57.16	S	-51.42	-41.12	-9.50	-0.80	-13.00	-38.42
136.70	S	-60.73	-57.29	-2.19	-1.24	-13.00	-47.73
241.46	S	-65.18	-66.99	3.49	-1.68	-13.00	-52.18
362.71	S	-64.61	-66.36	3.82	-2.07	-13.00	-51.61
542.16	S	-59.72	-61.85	3.99	-1.87	-13.00	-46.72
697.36	S	-58.42	-59.72	3.68	-2.38	-13.00	-45.42
1652.80	H	-61.87	-64.50	6.99	-4.36	-13.00	-48.87

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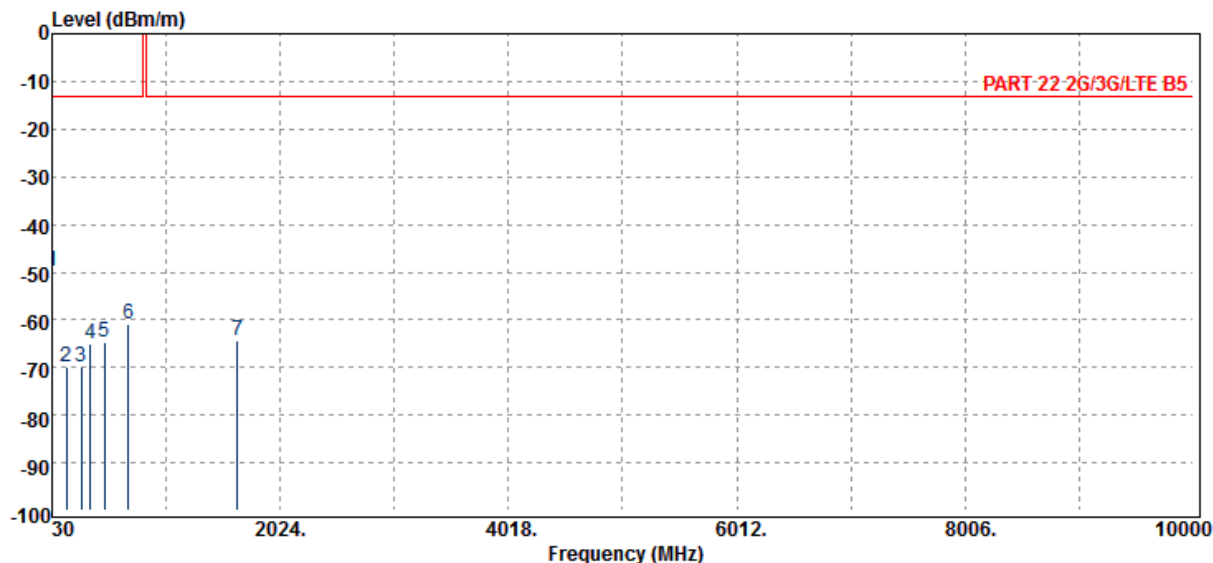
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Operation Band	:HSUPA B5	Temp./Humi.	:24 deg_C / 61 RH
Fundamental Frequency	:826.4 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
31.94	S	-49.68	-35.01	-14.08	-0.59	-13.00	-36.68
154.16	S	-69.93	-67.07	-1.57	-1.30	-13.00	-56.93
287.05	S	-70.00	-71.65	3.42	-1.77	-13.00	-57.00
367.56	S	-65.14	-66.88	3.80	-2.06	-13.00	-52.14
487.84	S	-64.64	-66.69	3.93	-1.89	-13.00	-51.64
696.39	S	-60.79	-62.01	3.69	-2.46	-13.00	-47.79
1652.80	H	-64.40	-67.03	6.99	-4.36	-13.00	-51.40

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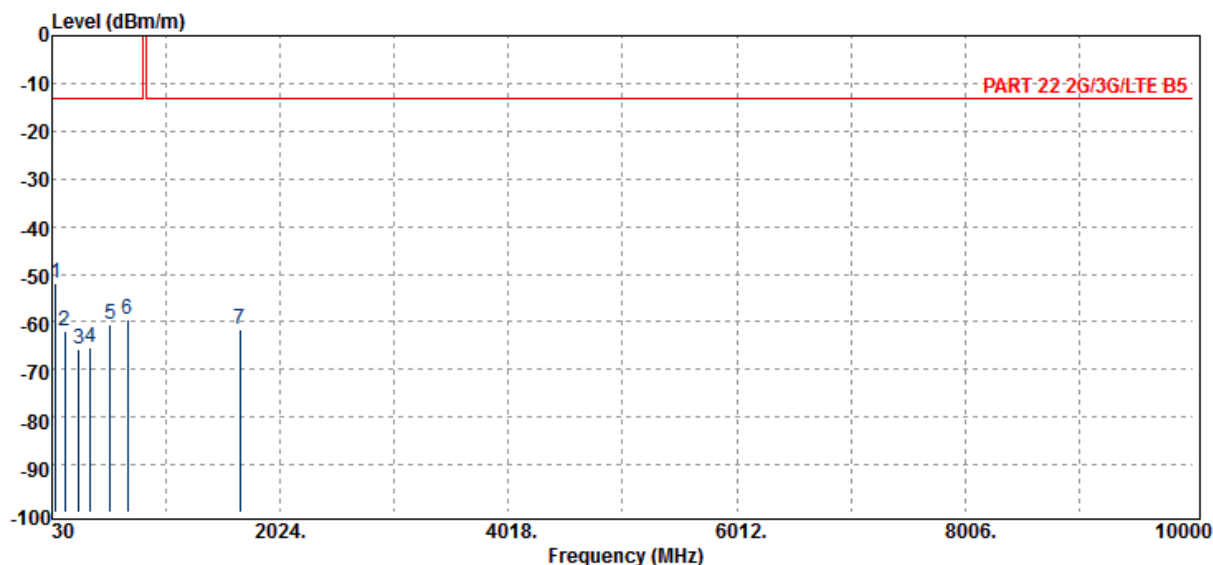
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Operation Band	:HSUPA B5	Temp./Humi.	:24 deg_C / 61 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:H Plane	Measurement Pol.	Antenna:VERTICAL



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
61.04	S	-51.85	-42.51	-8.50	-0.83	-13.00	-38.85
140.58	S	-62.04	-58.50	-2.27	-1.26	-13.00	-49.04
262.80	S	-65.68	-67.60	3.62	-1.71	-13.00	-52.68
362.71	S	-65.47	-67.22	3.82	-2.07	-13.00	-52.47
539.25	S	-60.72	-62.73	4.00	-1.99	-13.00	-47.72
687.66	S	-59.48	-60.06	3.71	-3.13	-13.00	-46.48
1673.20	H	-61.61	-64.28	7.06	-4.39	-13.00	-48.61

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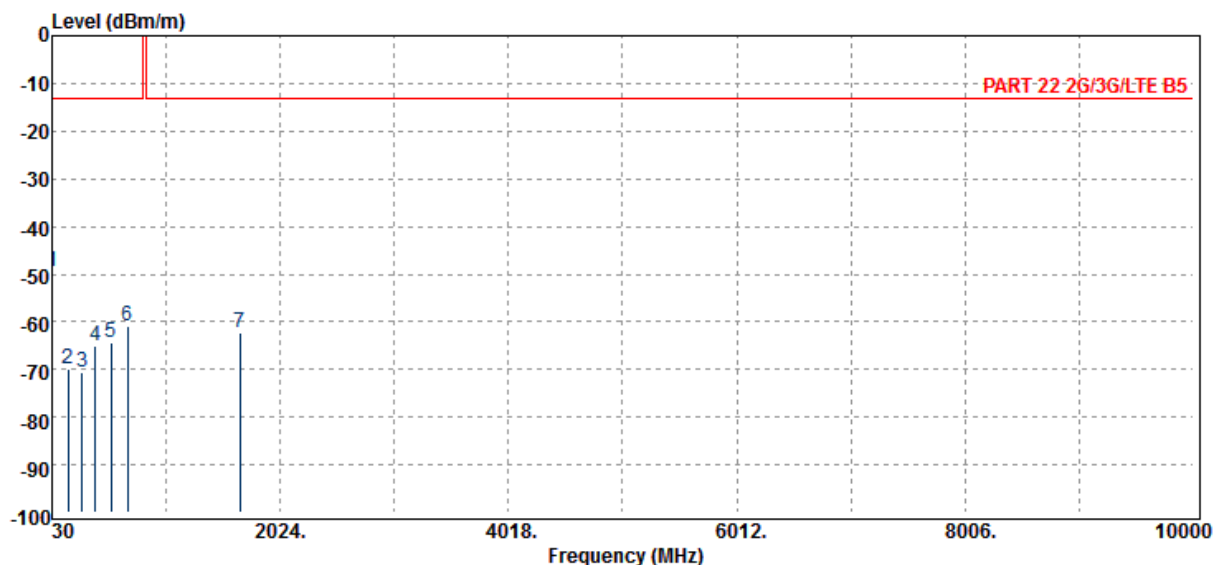
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Operation Band	:HSUPA B5	Temp./Humi.	:24 deg_C / 61 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
31.94	S	-49.49	-34.82	-14.08	-0.59	-13.00	-36.49
172.59	S	-69.98	-68.44	-0.20	-1.34	-13.00	-56.98
289.96	S	-70.65	-72.29	3.42	-1.78	-13.00	-57.65
408.30	S	-65.12	-66.66	3.68	-2.14	-13.00	-52.12
546.04	S	-64.36	-66.53	3.99	-1.81	-13.00	-51.36
691.54	S	-60.88	-61.75	3.70	-2.83	-13.00	-47.88
1673.20	H	-62.21	-64.87	7.06	-4.39	-13.00	-49.21

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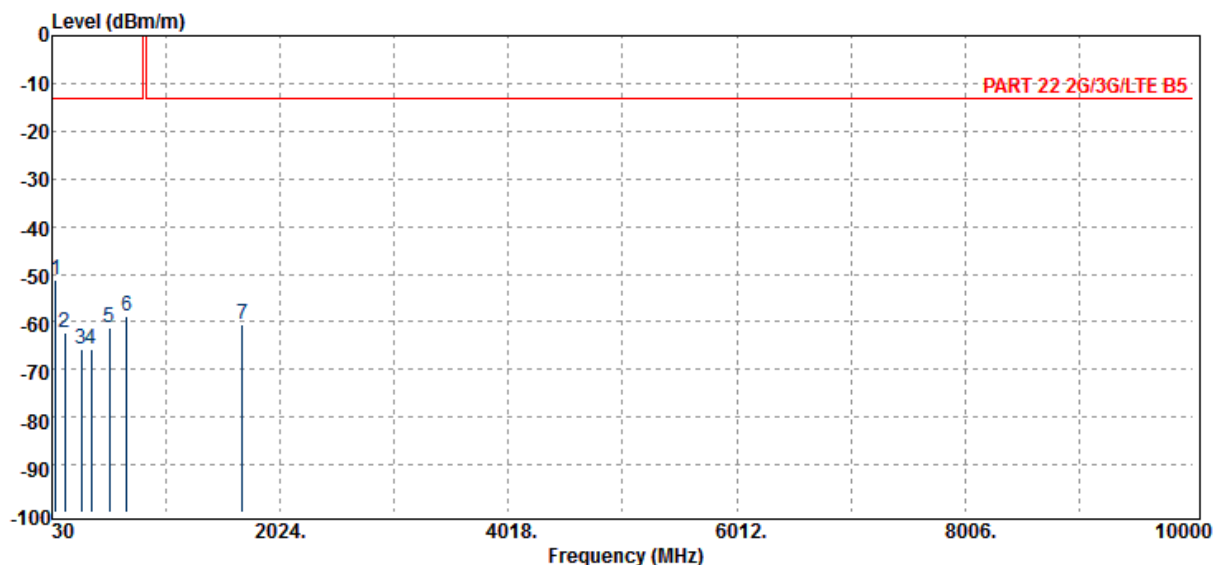
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Operation Band	:HSUPA B5	Temp./Humi.	:24 deg_C / 61 RH
Fundamental Frequency	:846.6 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:H Plane	Measurement Pol.	Antenna:VERTICAL



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
61.04	S	-51.27	-41.93	-8.50	-0.83	-13.00	-38.27
139.61	S	-62.33	-58.78	-2.29	-1.26	-13.00	-49.33
287.05	S	-65.80	-67.45	3.42	-1.77	-13.00	-52.80
374.35	S	-65.84	-67.59	3.78	-2.04	-13.00	-52.84
529.55	S	-61.17	-62.79	4.01	-2.39	-13.00	-48.17
682.81	S	-58.89	-59.43	3.73	-3.19	-13.00	-45.89
1693.20	H	-60.54	-63.23	7.12	-4.43	-13.00	-47.54

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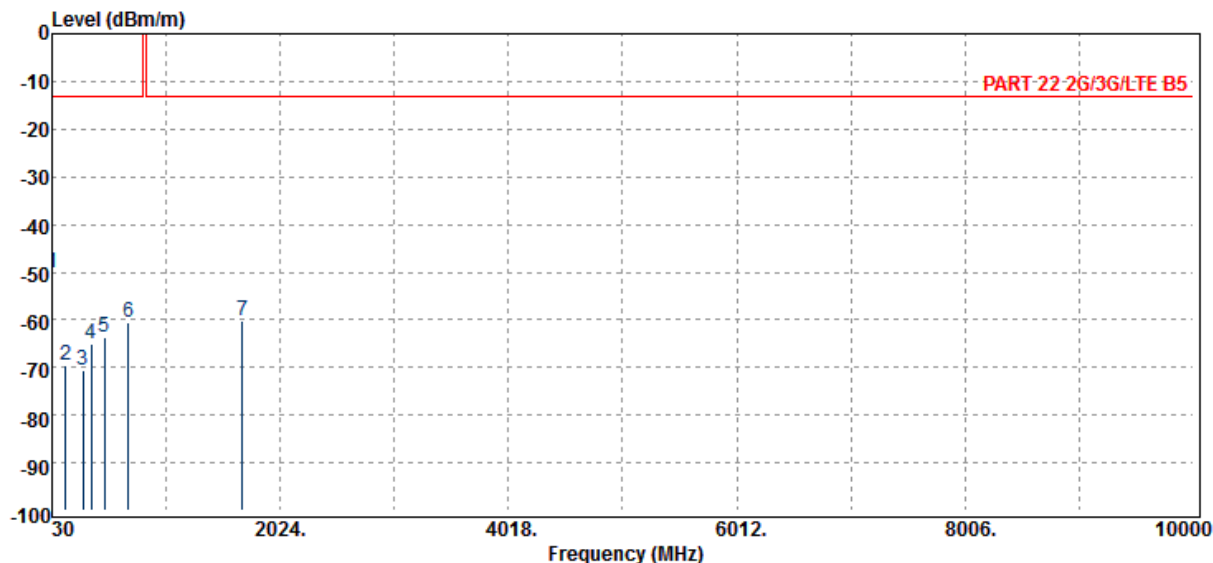
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Operation Band	:HSUPA B5	Temp./Humi.	:24 deg_C / 61 RH
Fundamental Frequency	:846.6 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
31.94	S	-50.15	-35.48	-14.08	-0.59	-13.00	-37.15
151.25	S	-69.63	-66.61	-1.73	-1.29	-13.00	-56.63
298.69	S	-70.44	-72.21	3.59	-1.82	-13.00	-57.44
369.50	S	-64.97	-66.71	3.80	-2.06	-13.00	-51.97
485.90	S	-63.62	-65.70	3.91	-1.84	-13.00	-50.62
696.39	S	-60.45	-61.68	3.69	-2.46	-13.00	-47.45
1693.20	H	-60.17	-62.86	7.12	-4.43	-13.00	-47.17

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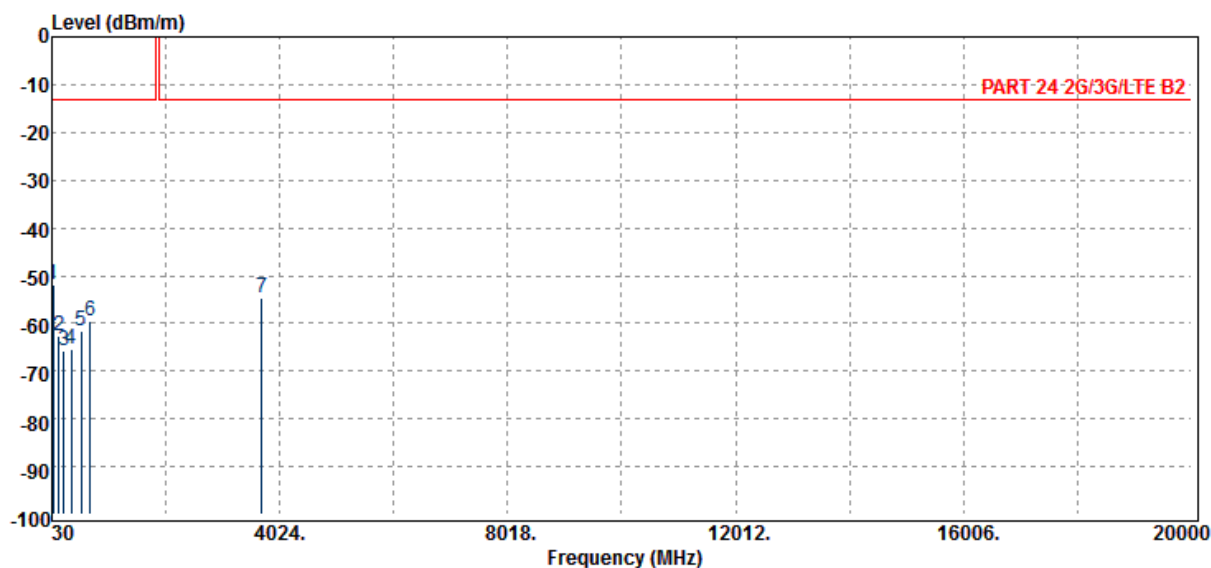
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Radiated Spurious Emission Measurement Result: LTE-Band 2 (The Worst Case)

Operation Band :LTE B2 Temp./Humi. :24.1 deg_C / 65 RH
Fundamental Frequency :1851.5 MHz Engineer :Tin
Operation Mode :Tx CH LOW
EUT Pol. :H Plane Measurement Pol. Antenna :VERTICAL



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
57.16	S	-51.75	-41.44	-9.50	-0.80	-13.00	-38.75
146.40	S	-62.72	-59.45	-1.98	-1.29	-13.00	-49.72
239.52	S	-65.87	-67.67	3.47	-1.67	-13.00	-52.87
364.65	S	-65.52	-67.26	3.81	-2.07	-13.00	-52.52
546.04	S	-61.66	-63.83	3.99	-1.81	-13.00	-48.66
697.36	S	-59.40	-60.70	3.68	-2.38	-13.00	-46.40
3705.00	H	-54.73	-60.39	12.57	-6.90	-13.00	-41.73

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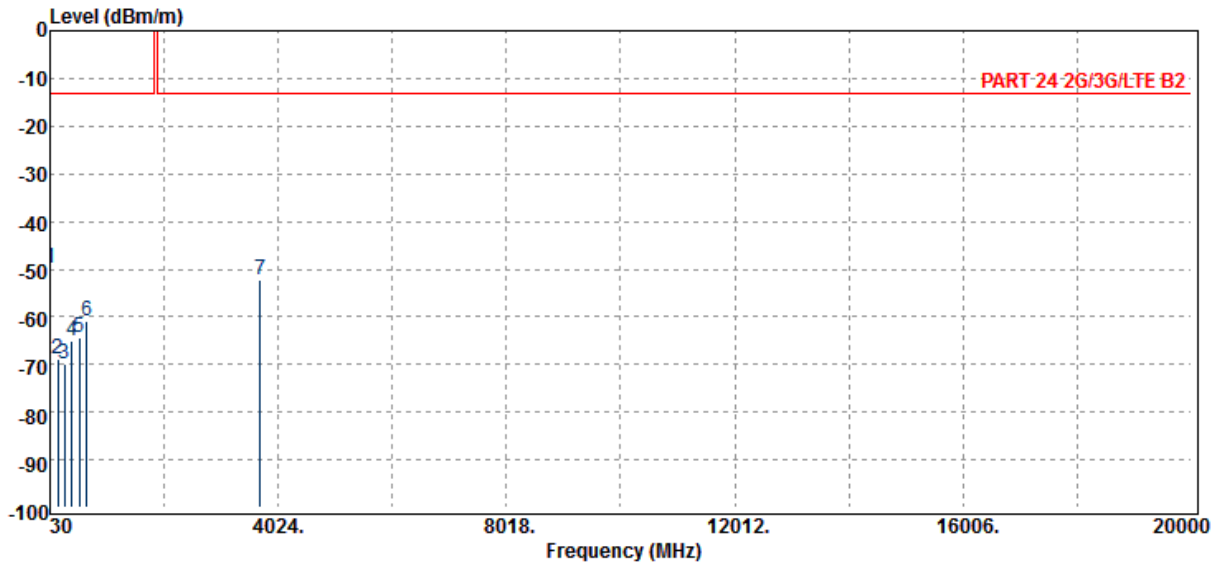
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f (886-2) 2298-0488

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Operation Band	:LTE B2	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:1851.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:H Plane	Measurement Pol.	Antenna :HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	S	-49.89	-34.73	-14.58	-0.58	-13.00	-36.89
160.95	S	-68.81	-66.32	-1.18	-1.30	-13.00	-55.81
277.35	S	-69.88	-71.58	3.44	-1.74	-13.00	-56.88
418.00	S	-65.13	-66.66	3.65	-2.11	-13.00	-52.13
539.25	S	-64.20	-66.21	4.00	-1.99	-13.00	-51.20
673.11	S	-60.91	-62.16	3.76	-2.52	-13.00	-47.91
3705.00	H	-52.15	-57.82	12.57	-6.90	-13.00	-39.15

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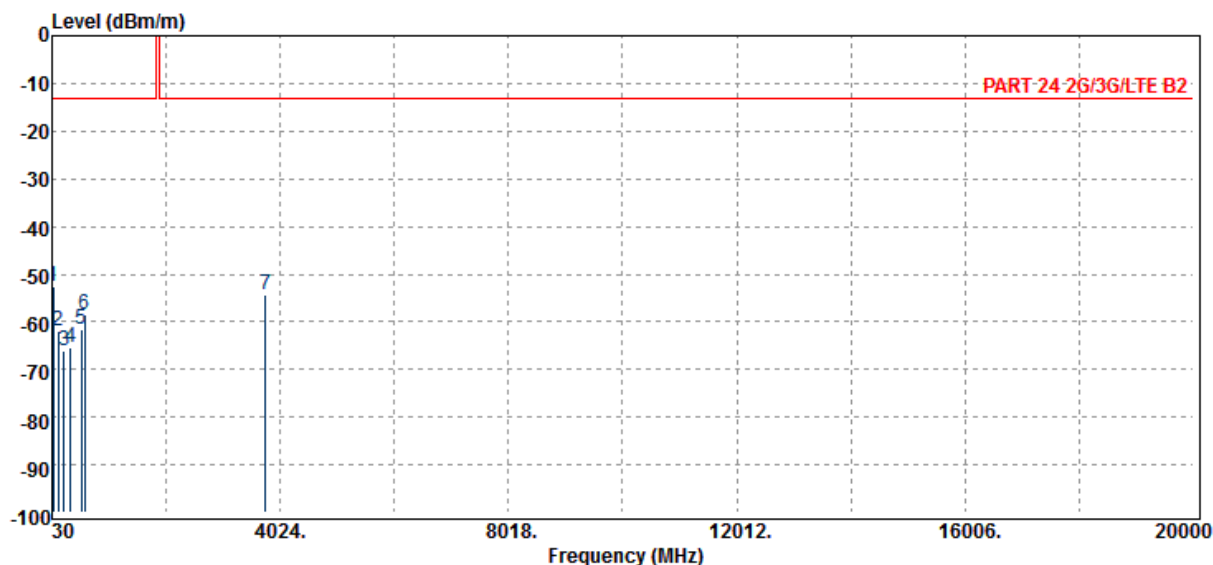
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Operation Band	:LTE B2	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:1880 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:H Plane	Measurement Pol.	Antenna:VERTICAL



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
57.16	S	-52.52	-42.22	-9.50	-0.80	-13.00	-39.52
138.64	S	-61.82	-58.31	-2.26	-1.25	-13.00	-48.82
243.40	S	-66.00	-67.81	3.50	-1.68	-13.00	-53.00
354.95	S	-65.53	-67.33	3.84	-2.04	-13.00	-52.53
544.10	S	-61.71	-63.91	3.99	-1.79	-13.00	-48.71
600.36	S	-58.60	-59.98	3.54	-2.16	-13.00	-45.60
3760.00	H	-54.43	-60.16	12.61	-6.89	-13.00	-41.43

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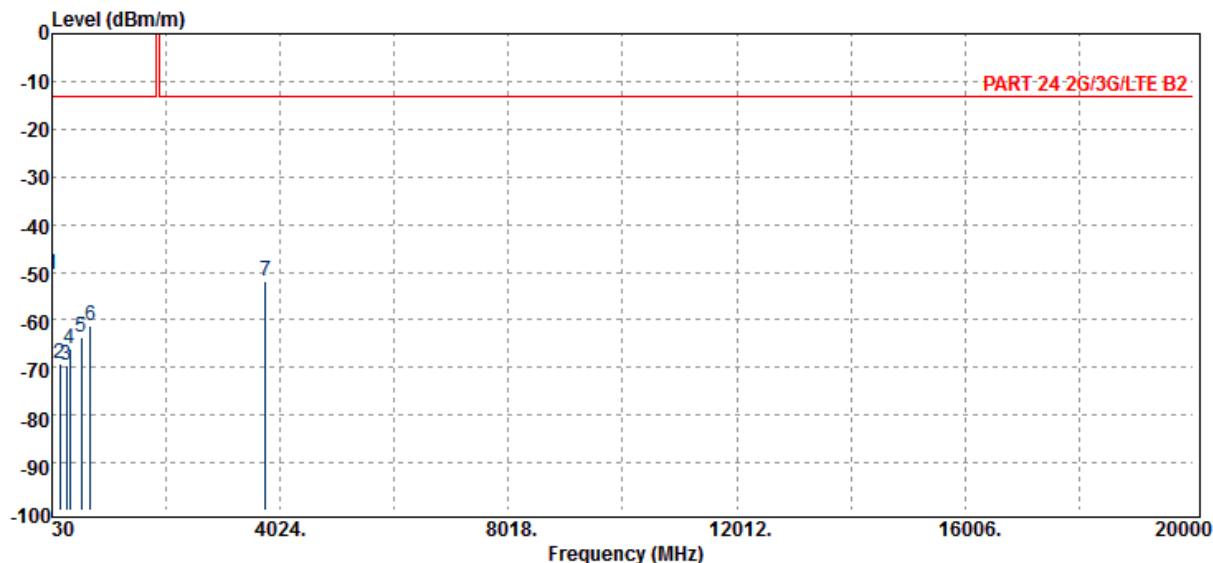
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Operation Band	:LTE B2	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:1880 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:H Plane	Measurement Pol.	Antenna :HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	S	-50.57	-35.41	-14.58	-0.58	-13.00	-37.57
165.80	S	-69.17	-66.99	-0.88	-1.31	-13.00	-56.17
289.96	S	-69.48	-71.12	3.42	-1.78	-13.00	-56.48
347.19	S	-65.96	-67.78	3.84	-2.02	-13.00	-52.96
548.95	S	-63.55	-65.56	3.98	-1.97	-13.00	-50.55
696.39	S	-61.22	-62.45	3.69	-2.46	-13.00	-48.22
3760.00	H	-51.86	-57.59	12.61	-6.89	-13.00	-38.86

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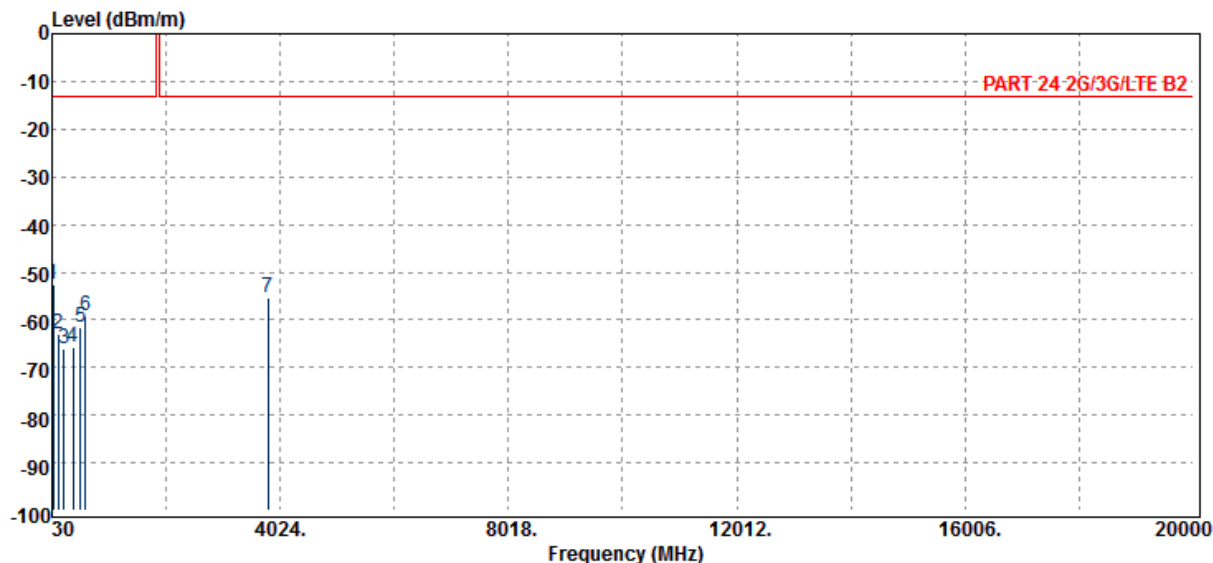
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Operation Band	:LTE B2	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:1908.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:H Plane	Measurement Pol.	Antenna:VERTICAL



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
57.16	S	-52.55	-42.25	-9.50	-0.80	-13.00	-39.55
136.70	S	-62.85	-59.42	-2.19	-1.24	-13.00	-49.85
239.52	S	-66.25	-68.05	3.47	-1.67	-13.00	-53.25
398.60	S	-65.91	-67.52	3.72	-2.10	-13.00	-52.91
534.40	S	-61.49	-63.31	4.00	-2.19	-13.00	-48.49
616.85	S	-59.19	-60.29	3.64	-2.54	-13.00	-46.19
3815.00	H	-55.47	-61.13	12.66	-7.00	-13.00	-42.47

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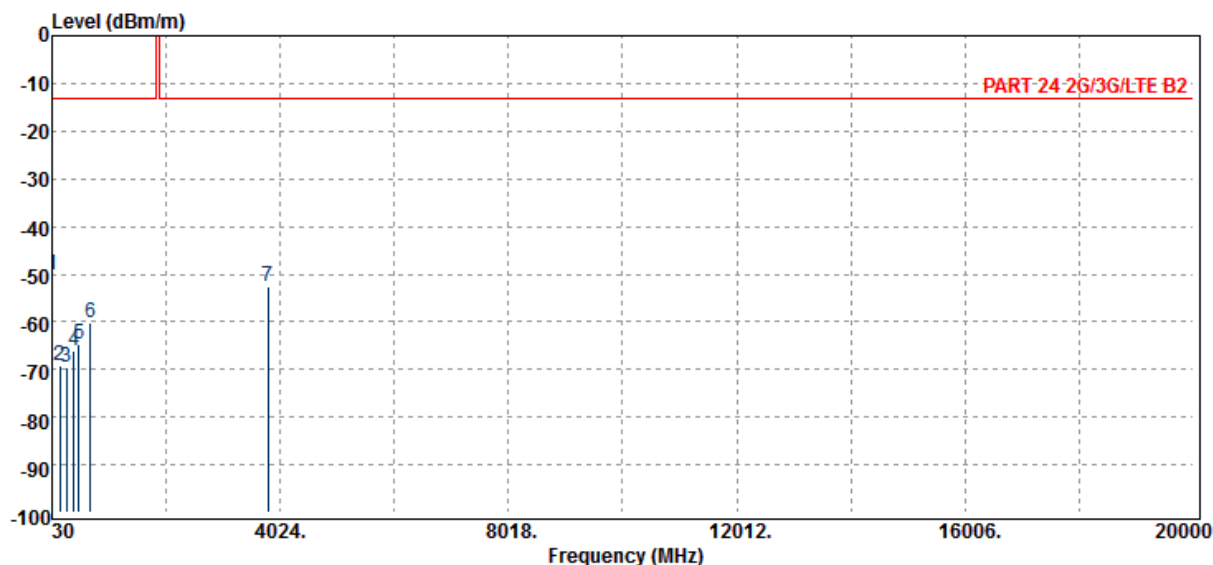
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Operation Band	:LTE B2	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:1908.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:H Plane	Measurement Pol.	Antenna :HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	S	-50.29	-35.13	-14.58	-0.58	-13.00	-37.29
165.80	S	-69.26	-67.07	-0.88	-1.31	-13.00	-56.26
289.96	S	-69.58	-71.22	3.42	-1.78	-13.00	-56.58
406.36	S	-65.98	-67.53	3.69	-2.15	-13.00	-52.98
495.60	S	-64.56	-66.49	4.01	-2.09	-13.00	-51.56
699.30	S	-60.27	-61.72	3.68	-2.24	-13.00	-47.27
3815.00	H	-52.51	-58.17	12.66	-7.00	-13.00	-39.51

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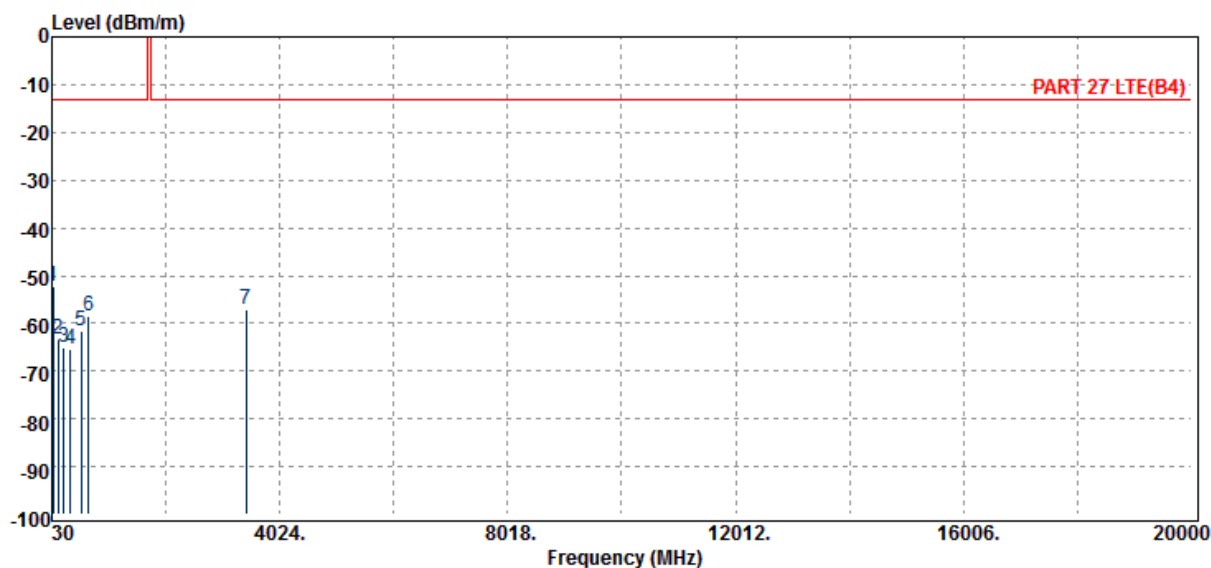
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Radiated Spurious Emission Measurement Result: LTE-Band 4 (The Worst Case)

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



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
57.16	S	-52.19	-41.88	-9.50	-0.80	-13.00	-39.19
140.58	S	-63.36	-59.82	-2.27	-1.26	-13.00	-50.36
240.49	S	-64.98	-66.79	3.48	-1.67	-13.00	-51.98
356.89	S	-65.50	-67.29	3.83	-2.05	-13.00	-52.50
536.34	S	-61.74	-63.63	4.00	-2.11	-13.00	-48.74
672.14	S	-58.59	-59.90	3.76	-2.45	-13.00	-45.59
3435.00	H	-57.23	-62.94	12.25	-6.55	-13.00	-44.23

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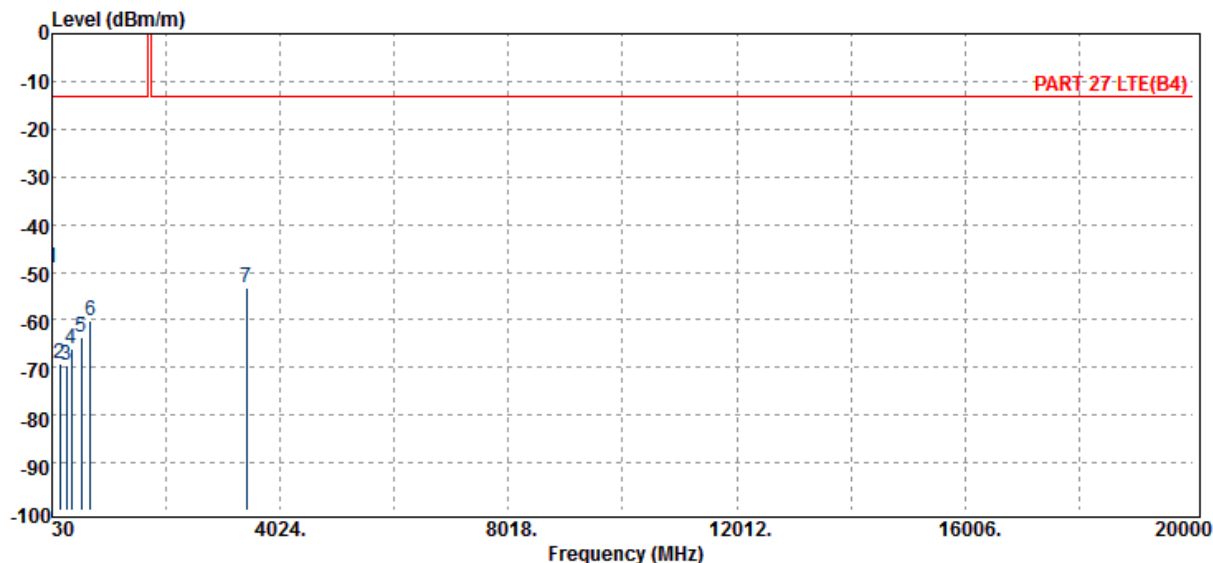
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Operation Band	:LTE B4	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:1717.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	S	-49.07	-33.91	-14.58	-0.58	-13.00	-36.07
167.74	S	-69.37	-67.30	-0.76	-1.32	-13.00	-56.37
287.05	S	-69.51	-71.16	3.42	-1.77	-13.00	-56.51
369.50	S	-66.02	-67.76	3.80	-2.06	-13.00	-53.02
539.25	S	-63.64	-65.65	4.00	-1.99	-13.00	-50.64
697.36	S	-60.16	-61.45	3.68	-2.38	-13.00	-47.16
3435.00	H	-53.44	-59.15	12.25	-6.55	-13.00	-40.44

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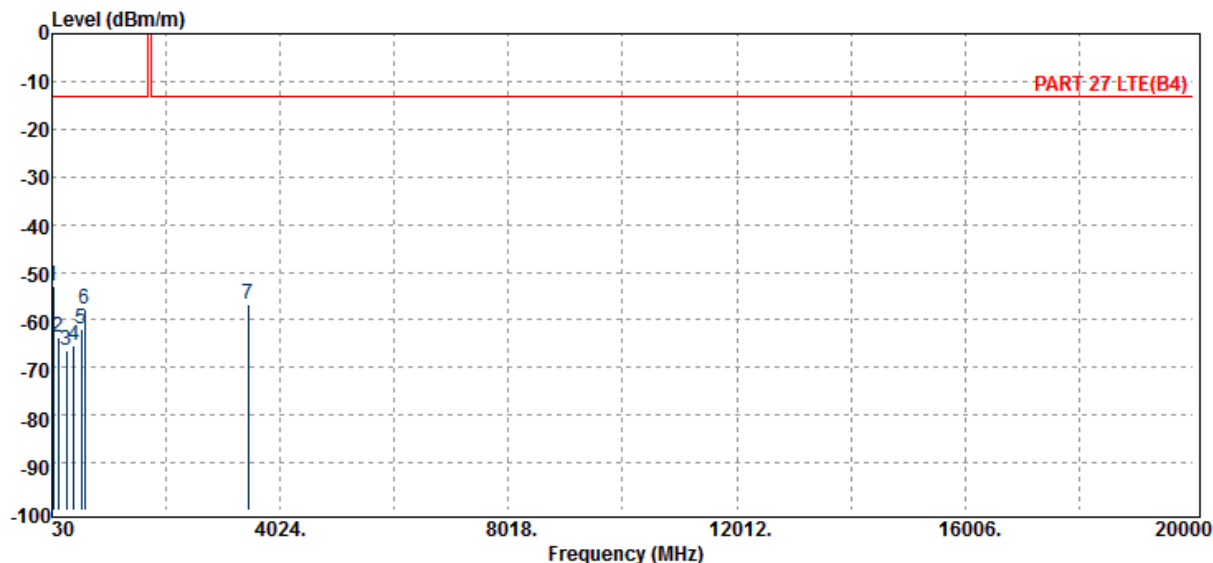
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Operation Band	:LTE B4	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:1732.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:H Plane	Measurement Pol.	Antenna:VERTICAL



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
57.16	S	-52.95	-42.65	-9.50	-0.80	-13.00	-39.95
139.61	S	-63.55	-60.00	-2.29	-1.26	-13.00	-50.55
277.35	S	-66.42	-68.12	3.44	-1.74	-13.00	-53.42
411.21	S	-65.56	-67.10	3.67	-2.13	-13.00	-52.56
547.01	S	-61.79	-63.91	3.98	-1.86	-13.00	-48.79
600.36	S	-57.89	-59.27	3.54	-2.16	-13.00	-44.89
3465.00	H	-56.80	-62.56	12.32	-6.56	-13.00	-43.80

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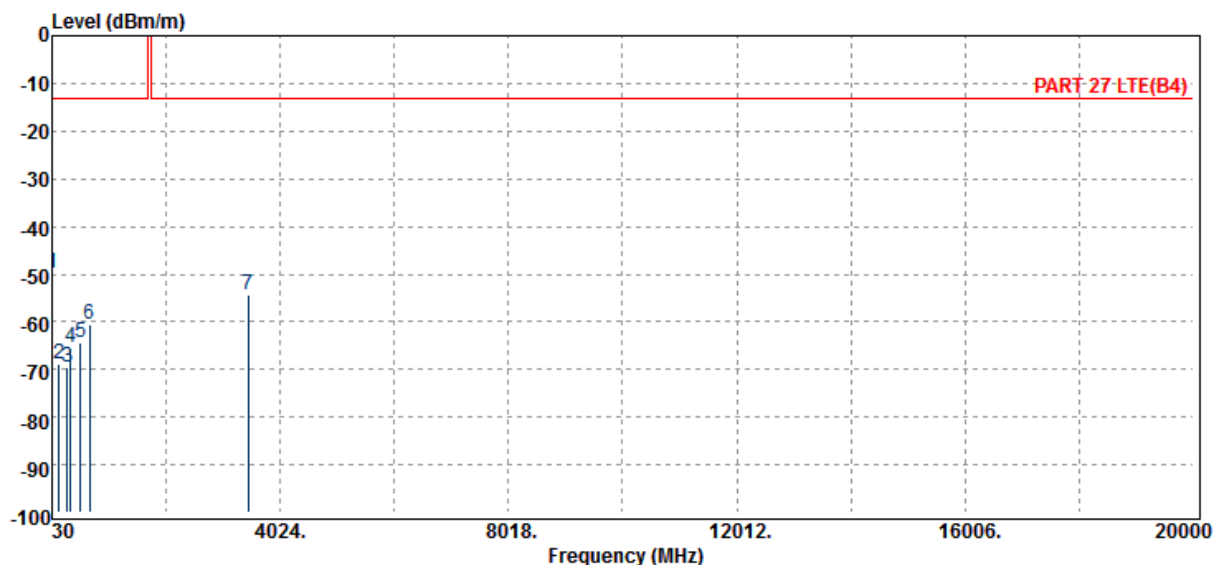
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Operation Band :LTE B4 Temp./Humi. :24.1 deg_C / 65 RH
Fundamental Frequency :1732.5 MHz Engineer :Tin
Operation Mode :Tx CH MID
EUT Pol. :H Plane Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	S	-49.75	-34.59	-14.58	-0.58	-13.00	-36.75
146.40	S	-68.69	-65.43	-1.98	-1.29	-13.00	-55.69
296.75	S	-69.64	-71.38	3.55	-1.81	-13.00	-56.64
350.10	S	-65.49	-67.32	3.85	-2.02	-13.00	-52.49
529.55	S	-64.35	-65.98	4.01	-2.39	-13.00	-51.35
692.51	S	-60.72	-61.66	3.70	-2.76	-13.00	-47.72
3465.00	H	-54.33	-60.09	12.32	-6.56	-13.00	-41.33

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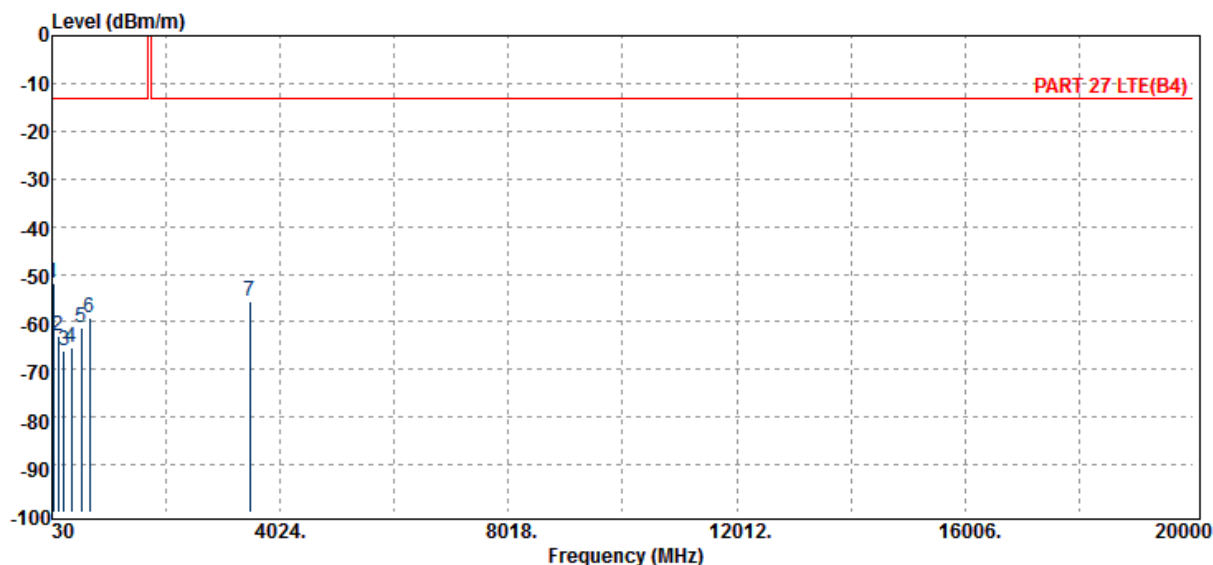
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Operation Band	:LTE B4	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:1747.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:H Plane	Measurement Pol.	Antenna :VERTICAL



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
56.19	S	-52.01	-41.50	-9.72	-0.79	-13.00	-39.01
138.64	S	-62.92	-59.41	-2.26	-1.25	-13.00	-49.92
243.40	S	-66.16	-67.97	3.50	-1.68	-13.00	-53.16
364.65	S	-65.53	-67.27	3.81	-2.07	-13.00	-52.53
542.16	S	-61.25	-63.38	3.99	-1.87	-13.00	-48.25
692.51	S	-59.03	-59.97	3.70	-2.76	-13.00	-46.03
3495.00	H	-55.59	-61.37	12.39	-6.61	-13.00	-42.59

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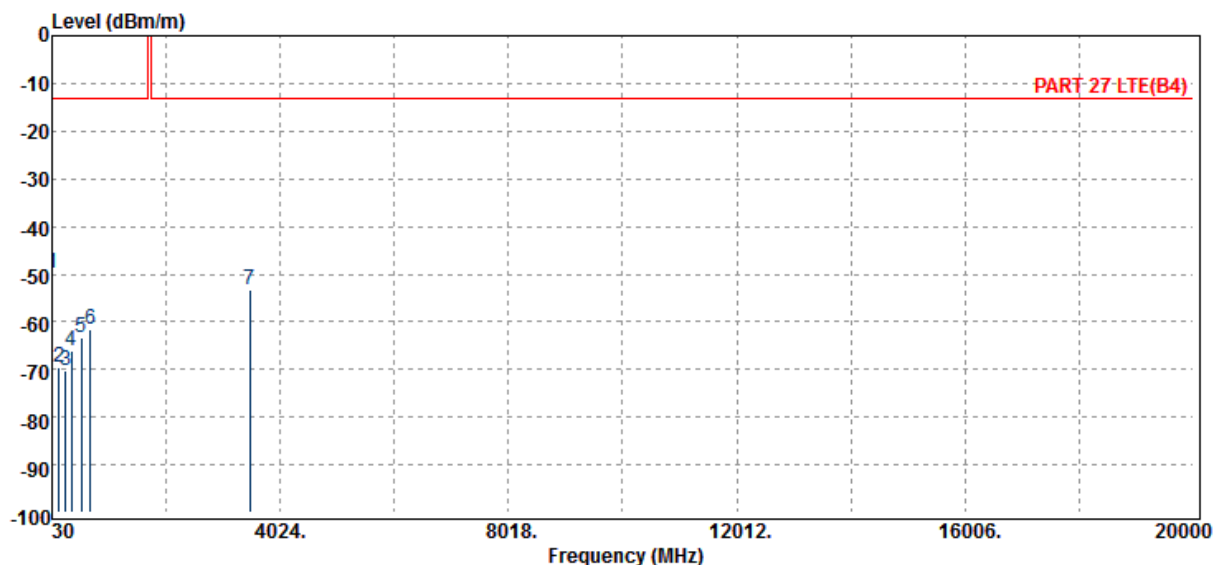
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Operation Band	:LTE B4	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:1747.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:H Plane	Measurement Pol.	Antenna :HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	S	-49.77	-34.61	-14.58	-0.58	-13.00	-36.77
149.31	S	-69.67	-66.54	-1.84	-1.29	-13.00	-56.67
264.74	S	-70.33	-72.22	3.59	-1.71	-13.00	-57.33
367.56	S	-66.10	-67.84	3.80	-2.06	-13.00	-53.10
547.01	S	-63.43	-65.55	3.98	-1.86	-13.00	-50.43
700.27	S	-61.51	-63.02	3.67	-2.16	-13.00	-48.51
3495.00	H	-53.37	-59.15	12.39	-6.61	-13.00	-40.37

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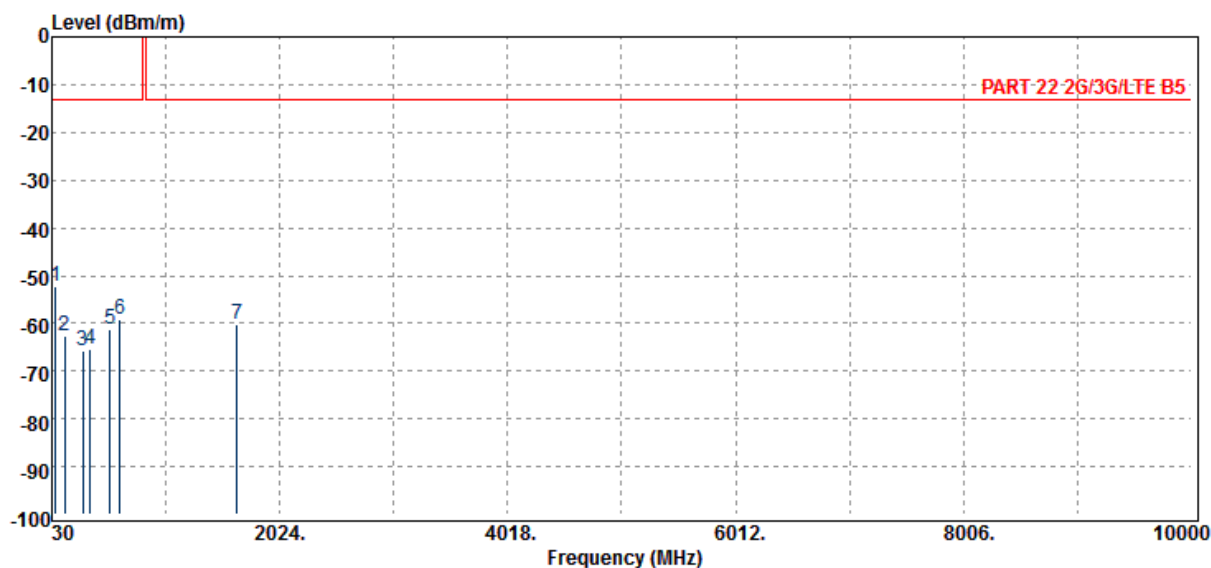
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Radiated Spurious Emission Measurement Result: LTE-Band 5 (The Worst Case)

Operation Band	:LTE B5	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:826.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:H Plane	Measurement Pol.	Antenna :VERTICAL



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
62.01	S	-52.33	-43.32	-8.17	-0.84	-13.00	-39.33
139.61	S	-62.74	-59.19	-2.29	-1.26	-13.00	-49.74
299.66	S	-65.71	-67.50	3.61	-1.82	-13.00	-52.71
367.56	S	-65.30	-67.04	3.80	-2.06	-13.00	-52.30
539.25	S	-61.16	-63.17	4.00	-1.99	-13.00	-48.16
626.55	S	-59.15	-60.08	3.70	-2.78	-13.00	-46.15
1653.00	H	-60.14	-64.92	9.14	-4.36	-13.00	-47.14

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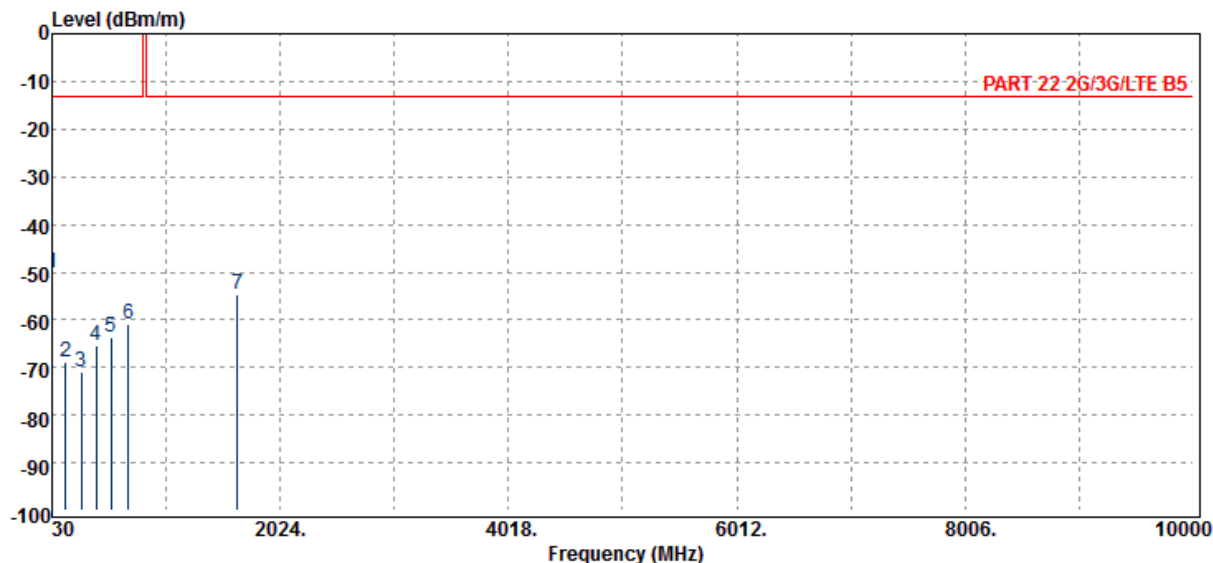
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Operation Band	:LTE B5	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:826.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:H Plane	Measurement Pol.	Antenna :HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	S	-50.16	-35.00	-14.58	-0.58	-13.00	-37.16
146.40	S	-68.98	-65.71	-1.98	-1.29	-13.00	-55.98
287.05	S	-70.93	-72.58	3.42	-1.77	-13.00	-57.93
418.00	S	-65.54	-67.08	3.65	-2.11	-13.00	-52.54
547.01	S	-63.56	-65.68	3.98	-1.86	-13.00	-50.56
697.36	S	-61.07	-62.37	3.68	-2.38	-13.00	-48.07
1653.00	H	-54.59	-59.37	9.14	-4.36	-13.00	-41.59

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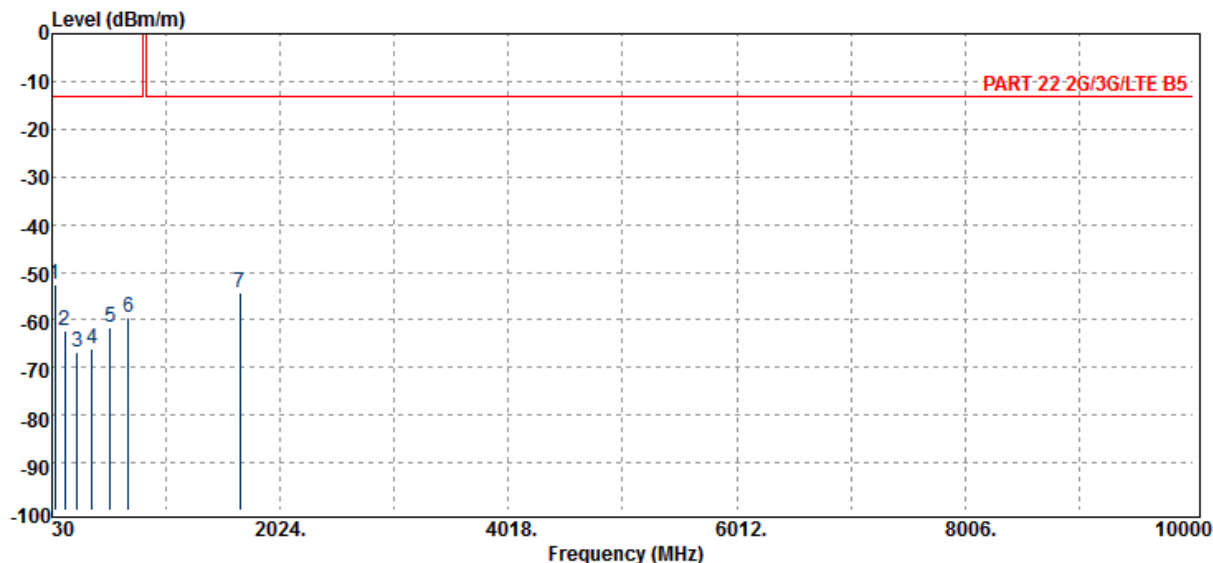
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Operation Band	:LTE B5	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:836.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:H Plane	Measurement Pol.	Antenna:VERTICAL



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
56.19	S	-52.48	-41.96	-9.72	-0.79	-13.00	-39.48
139.61	S	-62.15	-58.60	-2.29	-1.26	-13.00	-49.15
248.25	S	-66.64	-68.47	3.52	-1.69	-13.00	-53.64
382.11	S	-66.18	-67.93	3.76	-2.02	-13.00	-53.18
539.25	S	-61.58	-63.59	4.00	-1.99	-13.00	-48.58
696.39	S	-59.45	-60.68	3.69	-2.46	-13.00	-46.45
1673.00	H	-54.39	-59.20	9.21	-4.39	-13.00	-41.39

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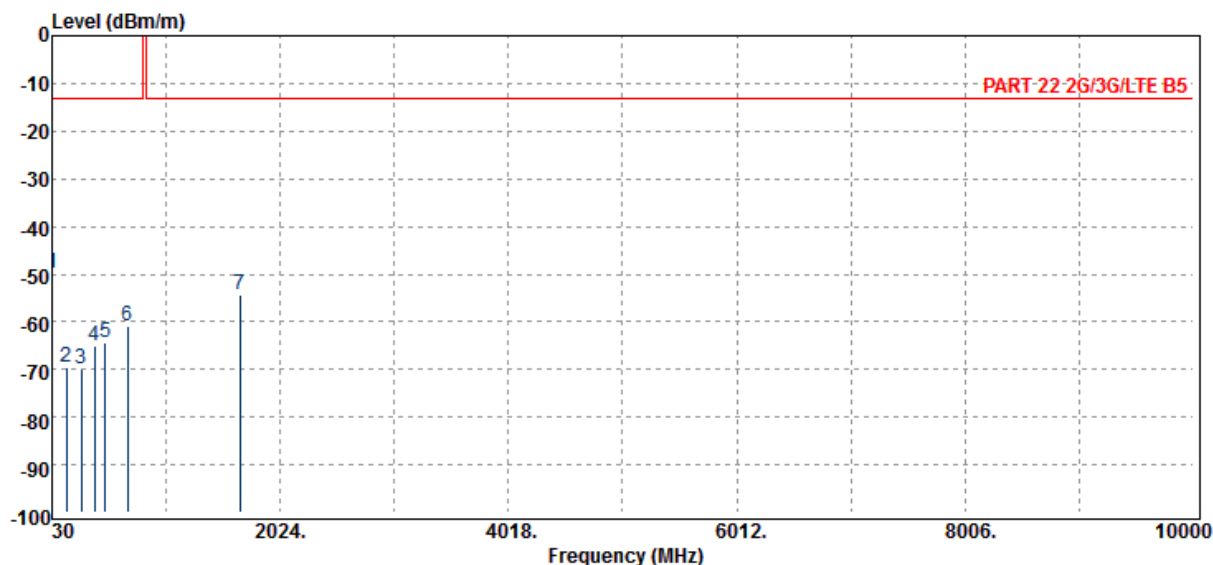
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Operation Band	:LTE B5	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:836.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:H Plane	Measurement Pol.	Antenna :HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
31.94	S	-49.76	-35.09	-14.08	-0.59	-13.00	-36.76
153.19	S	-69.44	-66.52	-1.62	-1.30	-13.00	-56.44
284.14	S	-69.88	-71.54	3.42	-1.76	-13.00	-56.88
401.51	S	-65.12	-66.70	3.71	-2.13	-13.00	-52.12
495.60	S	-64.22	-66.14	4.01	-2.09	-13.00	-51.22
691.54	S	-60.98	-61.84	3.70	-2.83	-13.00	-47.98
1673.00	H	-54.37	-59.18	9.21	-4.39	-13.00	-41.37

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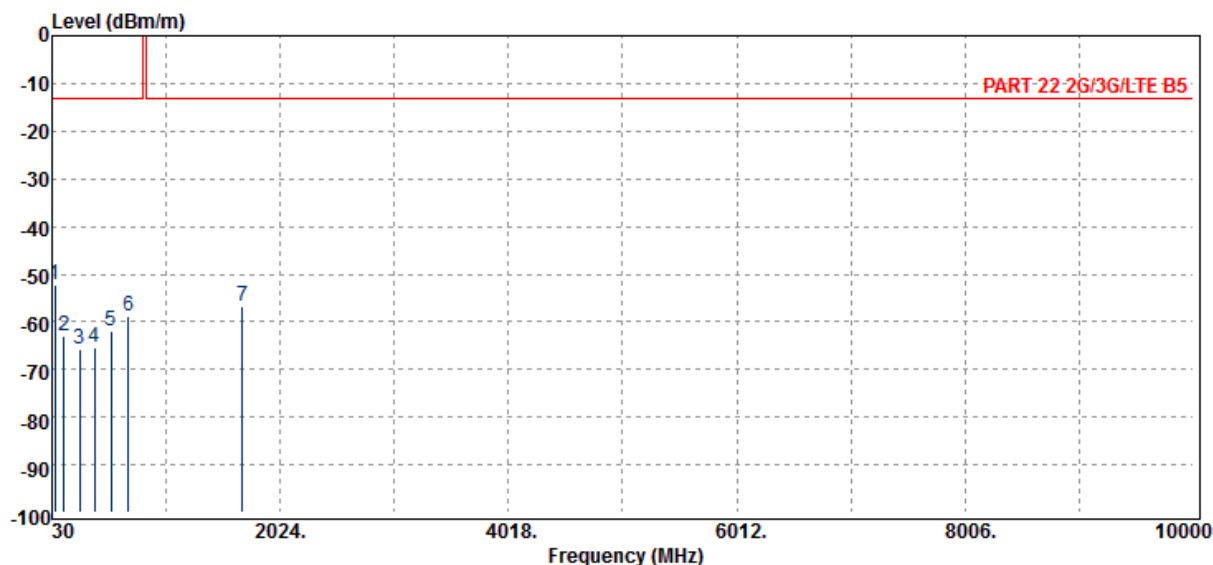
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Operation Band	:LTE B5	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:846.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:H Plane	Measurement Pol.	Antenna:VERTICAL



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
57.16	S	-52.08	-41.78	-9.50	-0.80	-13.00	-39.08
136.70	S	-63.14	-59.71	-2.19	-1.24	-13.00	-50.14
272.50	S	-65.84	-67.59	3.48	-1.73	-13.00	-52.84
401.51	S	-65.37	-66.95	3.71	-2.13	-13.00	-52.37
547.01	S	-61.85	-63.97	3.98	-1.86	-13.00	-48.85
699.30	S	-58.71	-60.15	3.68	-2.24	-13.00	-45.71
1693.00	H	-56.89	-59.59	7.12	-4.43	-13.00	-43.89

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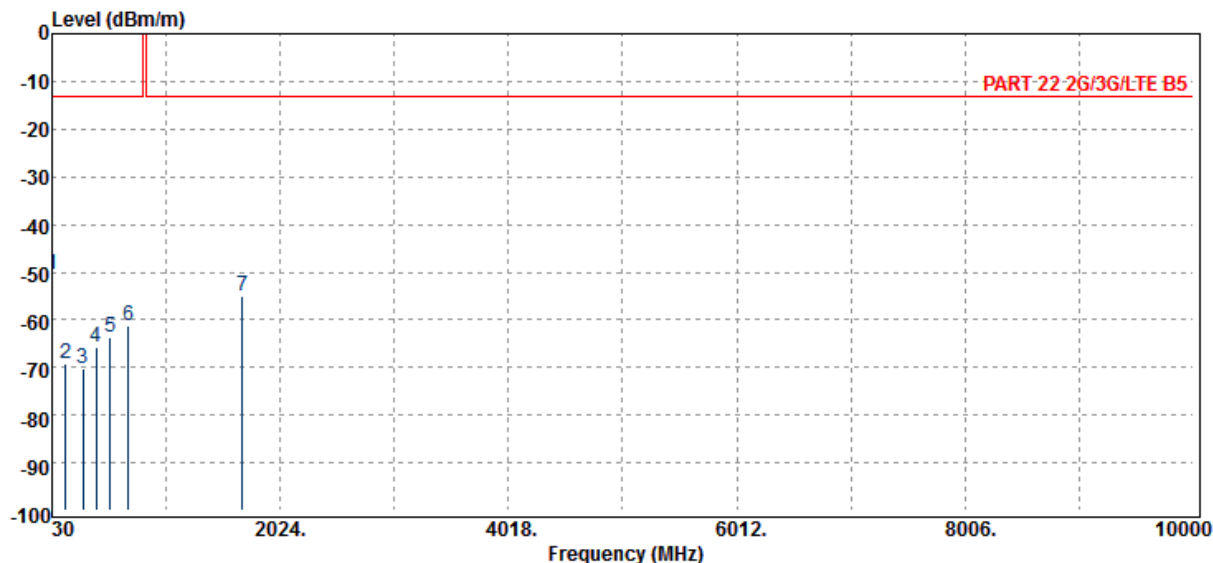
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Operation Band	:LTE B5	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:846.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:H Plane	Measurement Pol.	Antenna :HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	S	-50.41	-35.25	-14.58	-0.58	-13.00	-37.41
148.34	S	-69.24	-66.06	-1.89	-1.29	-13.00	-56.24
299.66	S	-70.23	-72.01	3.61	-1.82	-13.00	-57.23
418.00	S	-65.81	-67.35	3.65	-2.11	-13.00	-52.81
539.25	S	-63.62	-65.63	4.00	-1.99	-13.00	-50.62
696.39	S	-61.39	-62.62	3.69	-2.46	-13.00	-48.39
1693.00	H	-55.06	-57.76	7.12	-4.43	-13.00	-42.06

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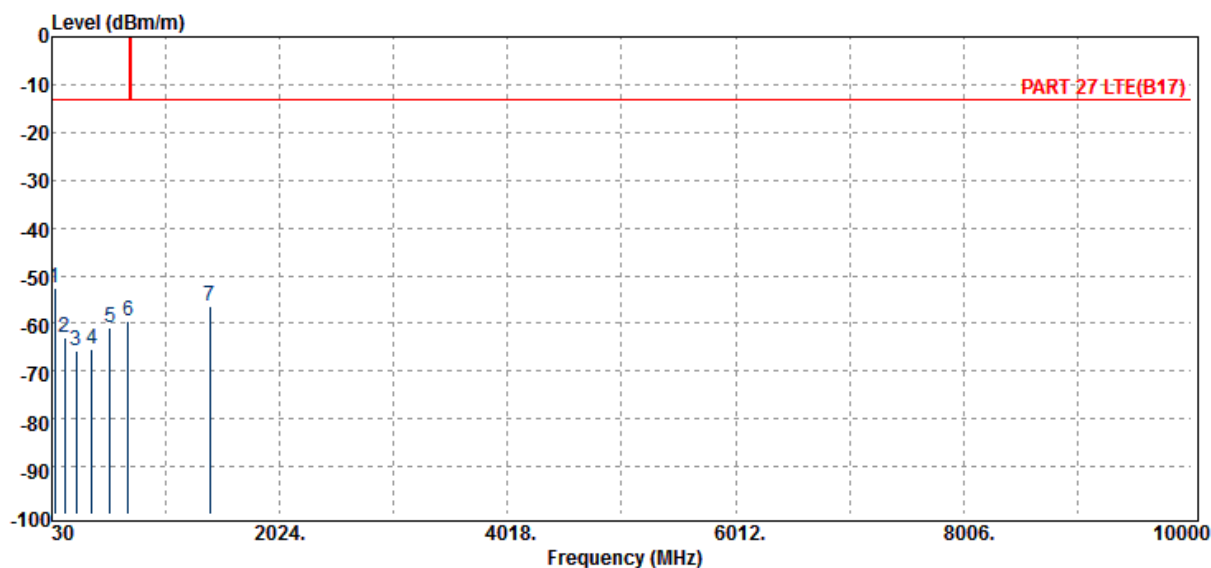
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Radiated Spurious Emission Measurement Result: LTE-Band 17 (The Worst Case)

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



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
54.25	S	-52.75	-41.79	-10.18	-0.78	-13.00	-39.75
138.64	S	-62.86	-59.35	-2.26	-1.25	-13.00	-49.86
241.46	S	-65.90	-67.71	3.49	-1.68	-13.00	-52.90
382.11	S	-65.52	-67.26	3.76	-2.02	-13.00	-52.52
537.31	S	-61.04	-62.98	4.00	-2.07	-13.00	-48.04
694.45	S	-59.46	-60.54	3.69	-2.61	-13.00	-46.46
1413.00	H	-56.30	-60.54	8.25	-4.00	-13.00	-43.30

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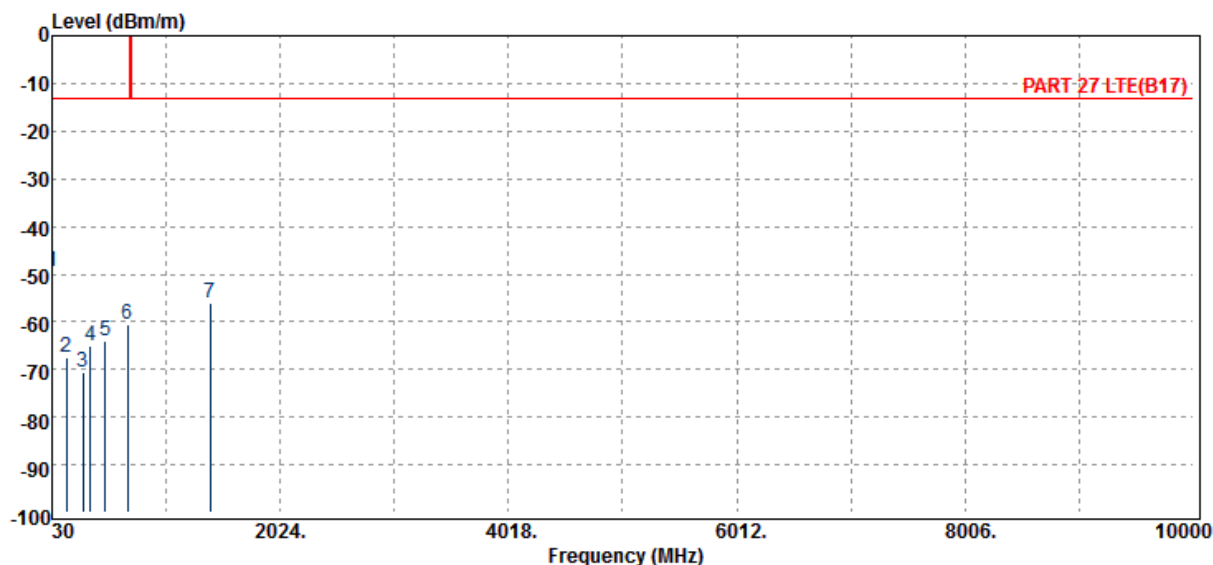
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Operation Band	:LTE B17	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:706.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:H Plane	Measurement Pol.	Antenna :HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
31.94	S	-49.51	-34.83	-14.08	-0.59	-13.00	-36.51
154.16	S	-67.50	-64.64	-1.57	-1.30	-13.00	-54.50
299.66	S	-70.46	-72.25	3.61	-1.82	-13.00	-57.46
367.56	S	-65.00	-66.74	3.80	-2.06	-13.00	-52.00
495.60	S	-64.06	-65.99	4.01	-2.09	-13.00	-51.06
692.51	S	-60.72	-61.66	3.70	-2.76	-13.00	-47.72
1413.00	H	-55.98	-60.23	8.25	-4.00	-13.00	-42.98

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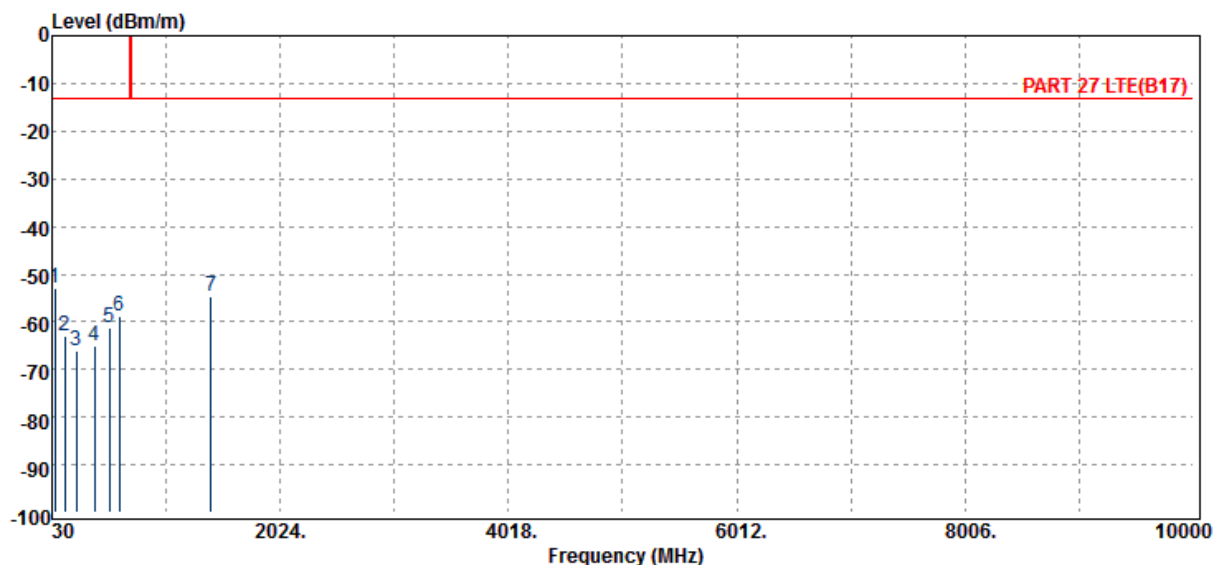
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Operation Band	:LTE B17	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:710 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:H Plane	Measurement Pol.	Antenna:VERTICAL



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
56.19	S	-52.87	-42.35	-9.72	-0.79	-13.00	-39.87
138.64	S	-62.95	-59.43	-2.26	-1.25	-13.00	-49.95
239.52	S	-65.97	-67.77	3.47	-1.67	-13.00	-52.97
403.45	S	-65.21	-66.77	3.70	-2.14	-13.00	-52.21
532.46	S	-61.26	-62.99	4.01	-2.27	-13.00	-48.26
616.85	S	-58.76	-59.86	3.64	-2.54	-13.00	-45.76
1420.00	H	-54.79	-59.06	8.28	-4.01	-13.00	-41.79

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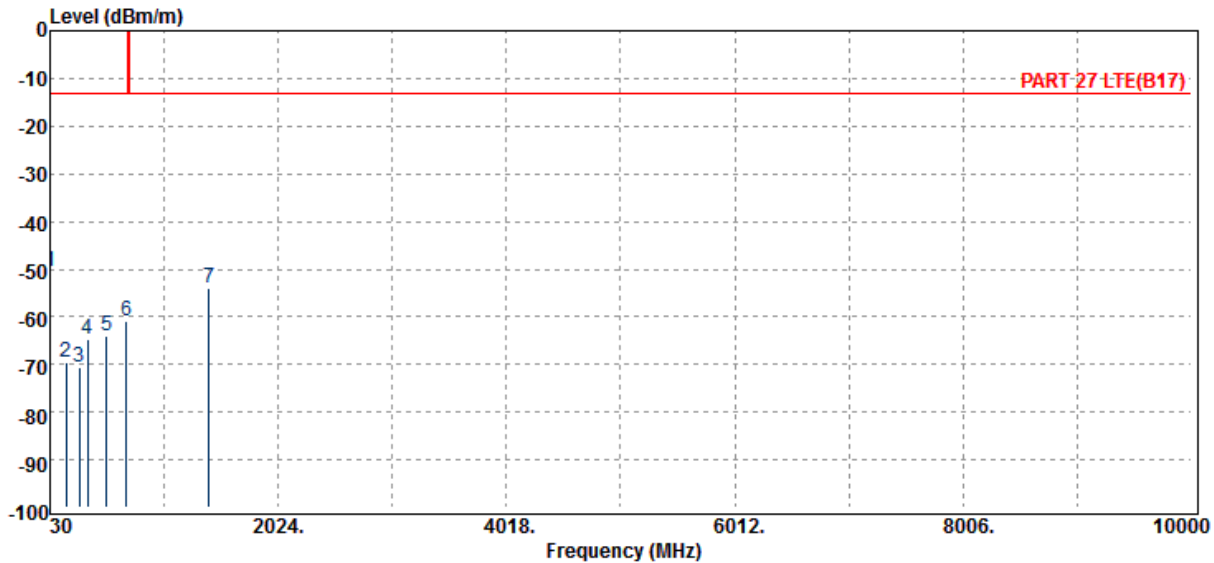
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Operation Band	:LTE B17	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:710 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:H Plane	Measurement Pol.	Antenna :HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
31.94	S	-50.62	-35.94	-14.08	-0.59	-13.00	-37.62
173.56	S	-69.70	-68.31	-0.04	-1.35	-13.00	-56.70
287.05	S	-70.60	-72.25	3.42	-1.77	-13.00	-57.60
356.89	S	-64.88	-66.66	3.83	-2.05	-13.00	-51.88
527.61	S	-64.11	-65.65	4.01	-2.47	-13.00	-51.11
700.27	S	-60.92	-62.44	3.67	-2.16	-13.00	-47.92
1420.00	H	-54.13	-58.39	8.28	-4.01	-13.00	-41.13

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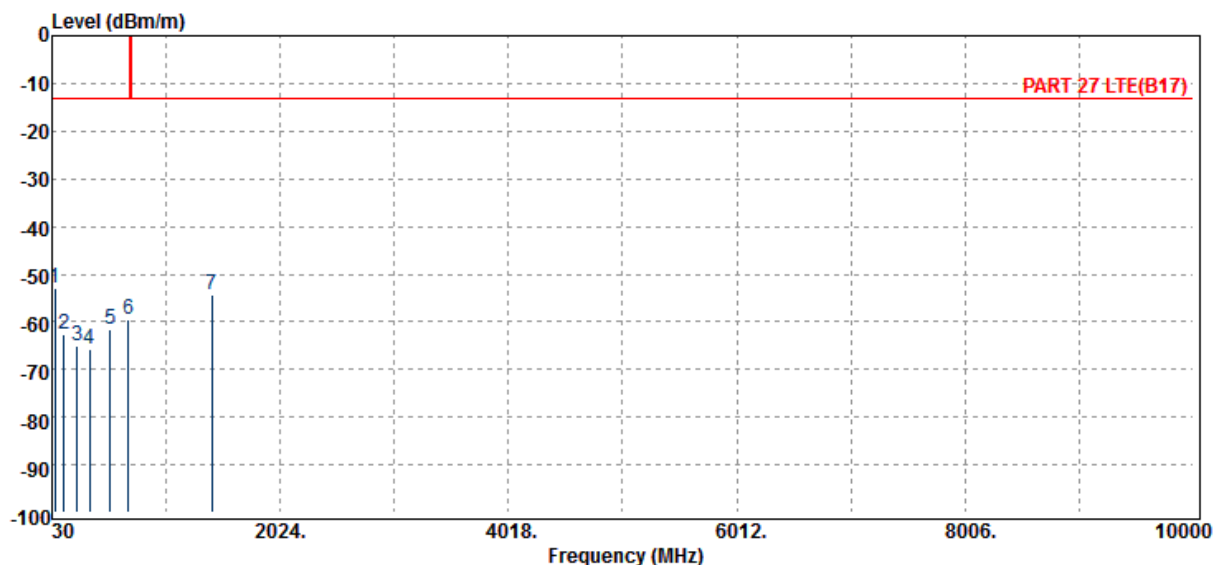
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Operation Band	:LTE B17	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:713.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:H Plane	Measurement Pol.	Antenna:VERTICAL



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
57.16	S	-52.78	-42.48	-9.50	-0.80	-13.00	-39.78
136.70	S	-62.47	-59.03	-2.19	-1.24	-13.00	-49.47
248.25	S	-65.01	-66.84	3.52	-1.69	-13.00	-52.01
354.95	S	-65.63	-67.43	3.84	-2.04	-13.00	-52.63
541.19	S	-61.63	-63.72	3.99	-1.91	-13.00	-48.63
699.30	S	-59.41	-60.85	3.68	-2.24	-13.00	-46.41
1427.00	H	-54.48	-58.76	8.30	-4.03	-13.00	-41.48

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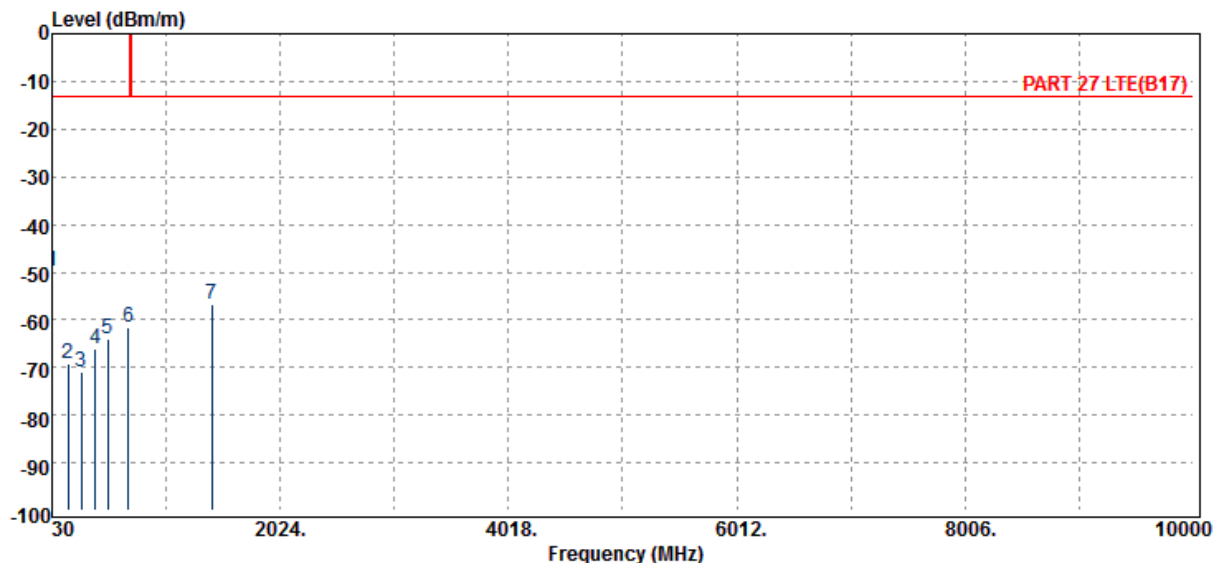
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Operation Band	:LTE B17	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:713.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:H Plane	Measurement Pol.	Antenna :HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	S	-49.84	-34.68	-14.58	-0.58	-13.00	-36.84
167.74	S	-69.10	-67.02	-0.76	-1.32	-13.00	-56.10
287.05	S	-70.78	-72.43	3.42	-1.77	-13.00	-57.78
408.30	S	-66.20	-67.74	3.68	-2.14	-13.00	-53.20
517.91	S	-64.12	-65.66	4.03	-2.49	-13.00	-51.12
697.36	S	-61.61	-62.91	3.68	-2.38	-13.00	-48.61
1427.00	H	-56.58	-60.86	8.30	-4.03	-13.00	-43.58

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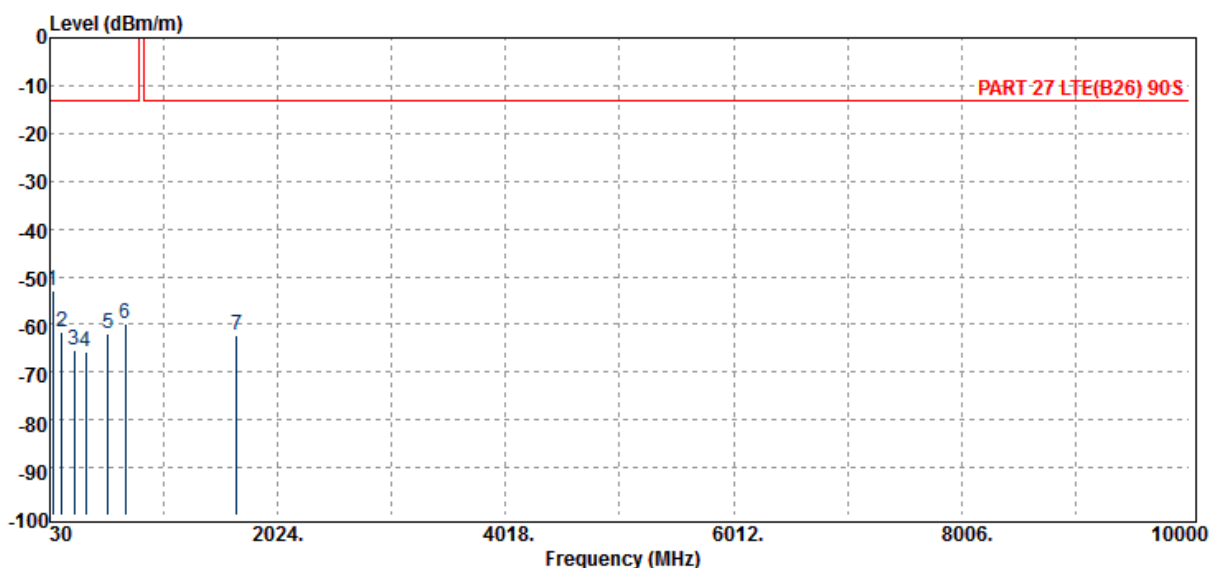
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Radiated Spurious Emission Measurement Result: LTE-Band 26 (The Worst Case)

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



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
56.19	S	-53.02	-42.50	-9.72	-0.79	-13.00	-40.02
136.70	S	-61.66	-58.23	-2.19	-1.24	-13.00	-48.66
239.52	S	-65.46	-67.26	3.47	-1.67	-13.00	-52.46
340.40	S	-65.85	-67.69	3.81	-1.98	-13.00	-52.85
542.16	S	-61.77	-63.90	3.99	-1.87	-13.00	-48.77
686.69	S	-59.75	-60.26	3.72	-3.21	-13.00	-46.75
1663.00	H	-62.11	-64.76	7.02	-4.38	-13.00	-49.11

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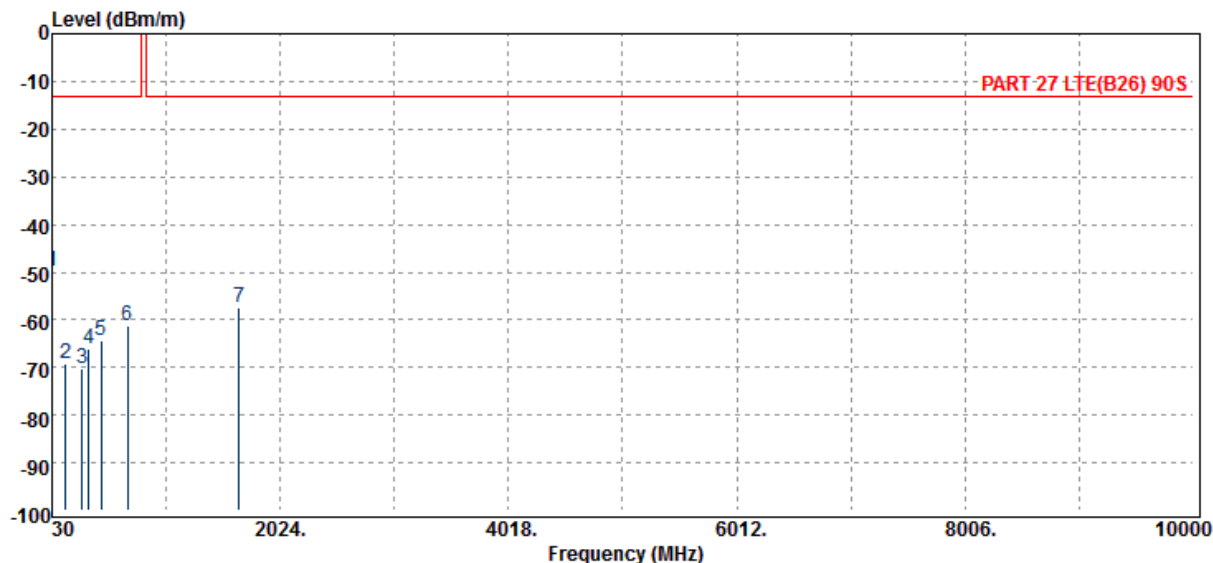
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Operation Band	:LTE B26	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:831.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:H Plane	Measurement Pol.	Antenna :HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	S	-49.74	-34.58	-14.58	-0.58	-13.00	-36.74
146.40	S	-69.04	-65.77	-1.98	-1.29	-13.00	-56.04
289.96	S	-70.27	-71.91	3.42	-1.78	-13.00	-57.27
352.04	S	-66.13	-67.94	3.85	-2.03	-13.00	-53.13
456.80	S	-64.28	-65.58	3.61	-2.31	-13.00	-51.28
691.54	S	-61.41	-62.27	3.70	-2.83	-13.00	-48.41
1663.00	H	-57.50	-60.15	7.02	-4.38	-13.00	-44.50

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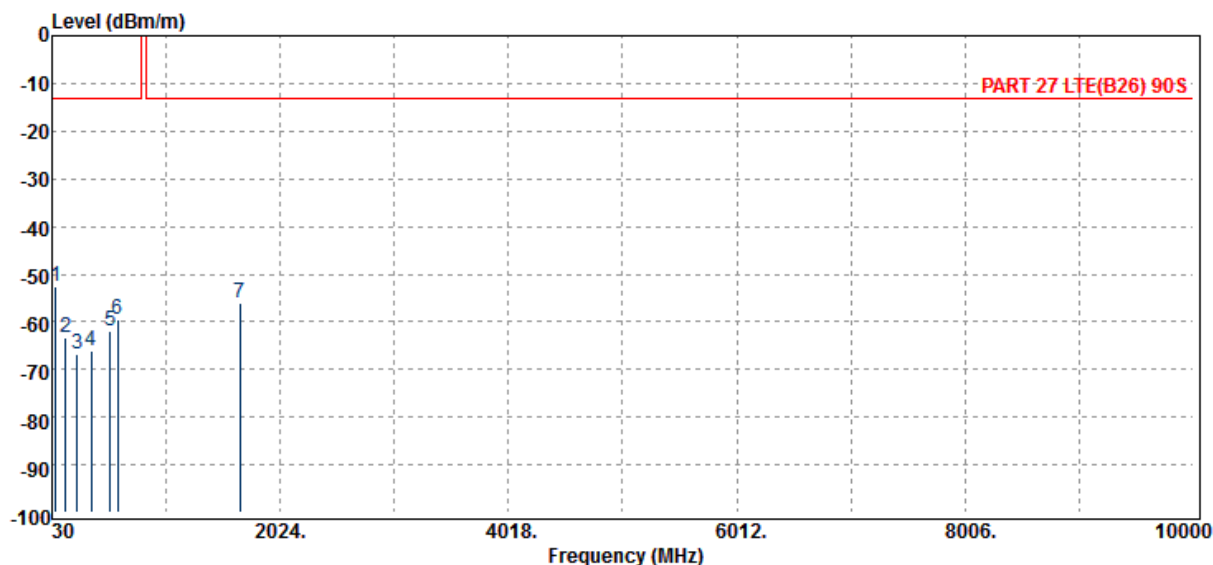
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Operation Band	:LTE B26	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:836.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:H Plane	Measurement Pol.	Antenna:VERTICAL



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
59.10	S	-52.44	-42.56	-9.06	-0.82	-13.00	-39.44
148.34	S	-63.16	-59.99	-1.89	-1.29	-13.00	-50.16
253.10	S	-66.66	-68.54	3.58	-1.70	-13.00	-53.66
372.41	S	-66.16	-67.90	3.79	-2.05	-13.00	-53.16
541.19	S	-61.92	-64.00	3.99	-1.91	-13.00	-48.92
604.24	S	-59.60	-61.02	3.56	-2.14	-13.00	-46.60
1673.00	H	-56.21	-58.87	7.06	-4.39	-13.00	-43.21

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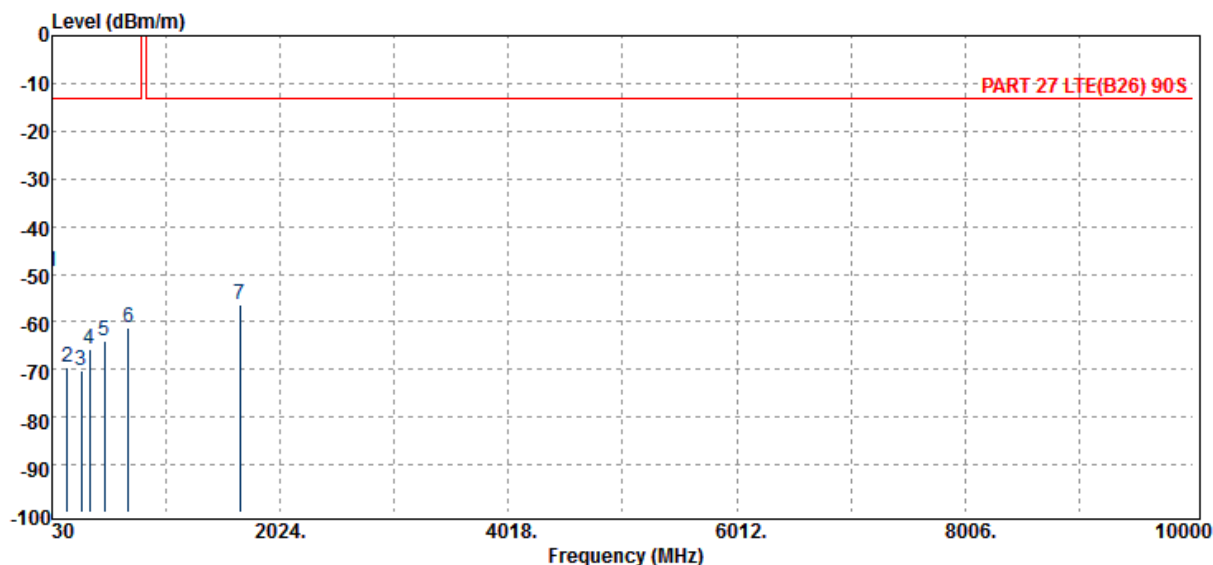
t (886-2) 2299-3279

f (886-2) 2298-0488

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



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	S	-49.36	-34.20	-14.58	-0.58	-13.00	-36.36
162.89	S	-69.65	-67.29	-1.06	-1.31	-13.00	-56.65
285.11	S	-70.38	-72.04	3.42	-1.76	-13.00	-57.38
361.74	S	-65.71	-67.47	3.82	-2.06	-13.00	-52.71
490.75	S	-64.12	-66.12	3.96	-1.96	-13.00	-51.12
699.30	S	-61.16	-62.60	3.68	-2.24	-13.00	-48.16
1673.00	H	-56.42	-59.08	7.06	-4.39	-13.00	-43.42

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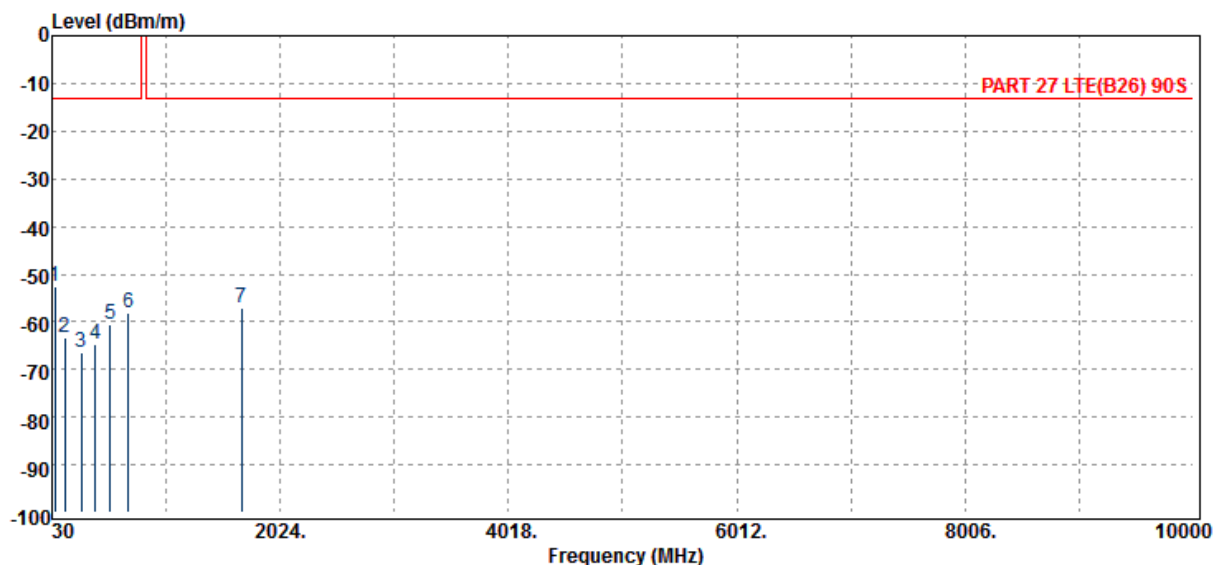
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Operation Band	:LTE B26	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:841.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:H Plane	Measurement Pol.	Antenna :VERTICAL



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
57.16	S	-52.59	-42.29	-9.50	-0.80	-13.00	-39.59
138.64	S	-63.18	-59.66	-2.26	-1.25	-13.00	-50.18
287.05	S	-66.58	-68.23	3.42	-1.77	-13.00	-53.58
405.39	S	-64.68	-66.22	3.69	-2.15	-13.00	-51.68
542.16	S	-60.54	-62.66	3.99	-1.87	-13.00	-47.54
699.30	S	-58.21	-59.65	3.68	-2.24	-13.00	-45.21
1683.00	H	-56.92	-59.60	7.09	-4.41	-13.00	-43.92

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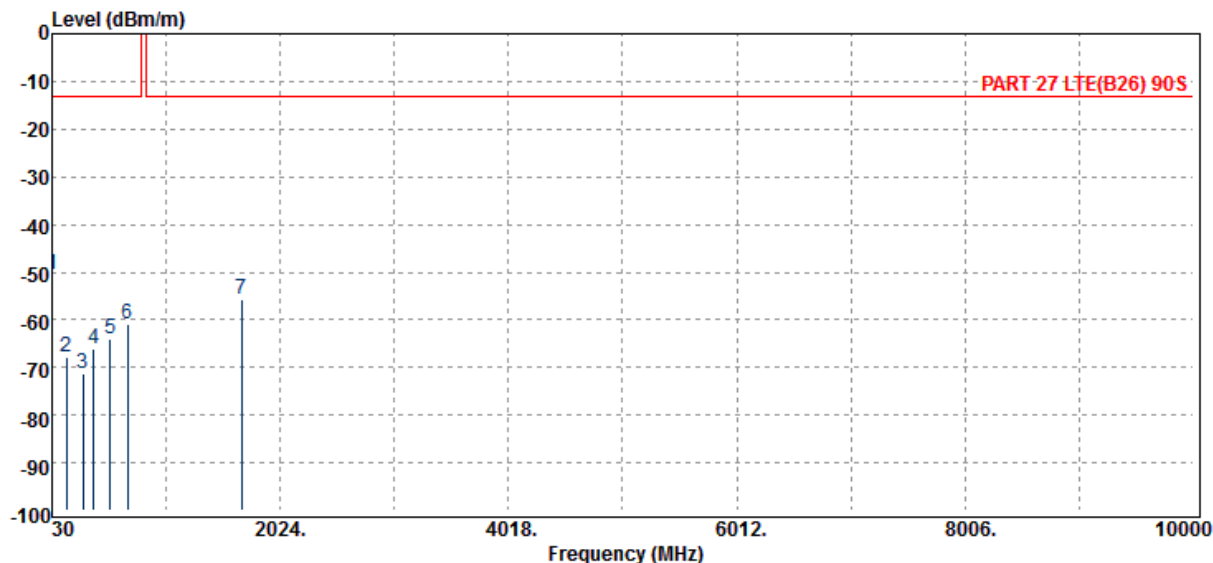
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Operation Band	:LTE B26	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:841.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:H Plane	Measurement Pol.	Antenna :HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	S	-50.54	-35.38	-14.58	-0.58	-13.00	-37.54
156.10	S	-67.85	-65.09	-1.46	-1.30	-13.00	-54.85
299.66	S	-71.12	-72.90	3.61	-1.82	-13.00	-58.12
390.84	S	-66.02	-67.71	3.74	-2.05	-13.00	-53.02
537.31	S	-64.00	-65.93	4.00	-2.07	-13.00	-51.00
691.54	S	-60.81	-61.68	3.70	-2.83	-13.00	-47.81
1683.00	H	-55.85	-58.53	7.09	-4.41	-13.00	-42.85

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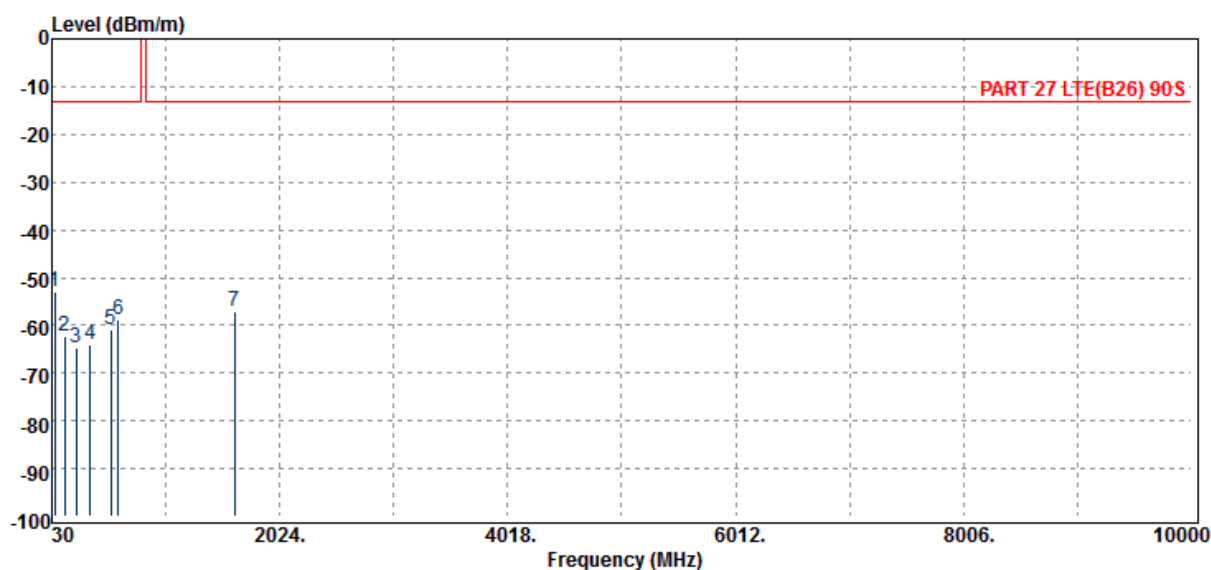
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Radiated Spurious Emission Measurement Result: LTE-Band 26 for Part 90S (The Worst Case)

Operation Band	:LTE B26	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:815.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:H Plane	Measurement Pol.	Antenna :VERTICAL



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
54.25	S	-52.86	-41.90	-10.18	-0.78	-13.00	-39.86
138.64	S	-62.31	-58.80	-2.26	-1.25	-13.00	-49.31
241.46	S	-64.59	-66.40	3.49	-1.68	-13.00	-51.59
364.65	S	-64.13	-65.87	3.81	-2.07	-13.00	-51.13
544.10	S	-60.98	-63.18	3.99	-1.79	-13.00	-47.98
612.00	S	-58.78	-60.01	3.61	-2.38	-13.00	-45.78
1631.00	H	-57.00	-59.59	6.92	-4.33	-13.00	-44.00

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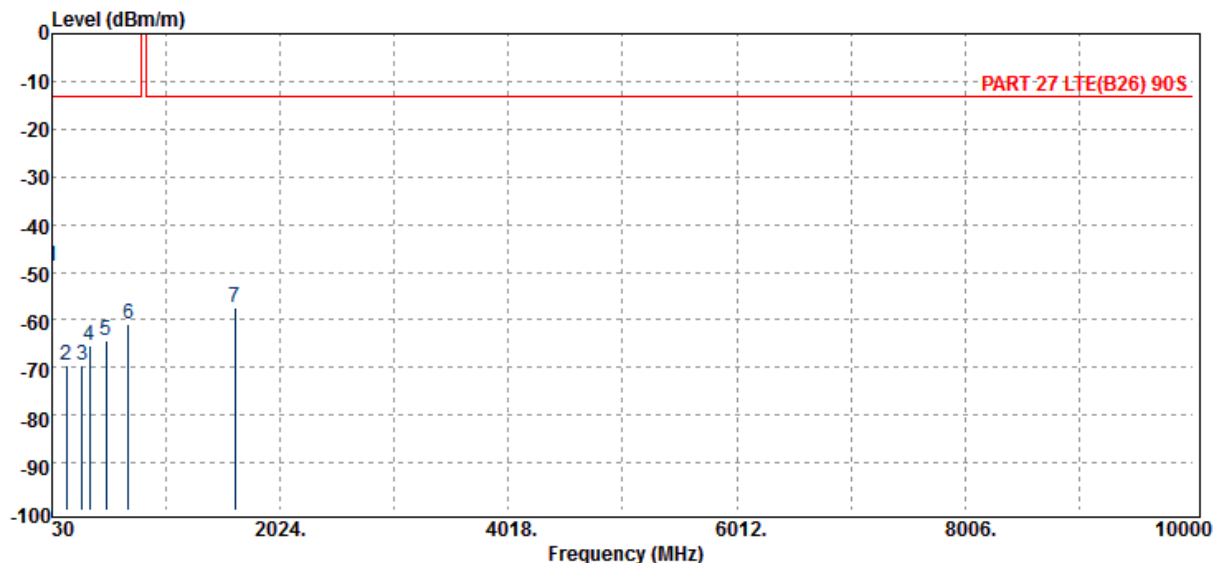
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Operation Band	:LTE B26	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:815.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:H Plane	Measurement Pol.	Antenna :HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	S	-48.91	-33.75	-14.58	-0.58	-13.00	-35.91
154.16	S	-69.61	-66.75	-1.57	-1.30	-13.00	-56.61
296.75	S	-69.57	-71.31	3.55	-1.81	-13.00	-56.57
357.86	S	-65.42	-67.20	3.83	-2.05	-13.00	-52.42
502.39	S	-64.46	-66.26	4.05	-2.26	-13.00	-51.46
697.36	S	-60.74	-62.04	3.68	-2.38	-13.00	-47.74
1631.00	H	-57.43	-60.02	6.92	-4.33	-13.00	-44.43

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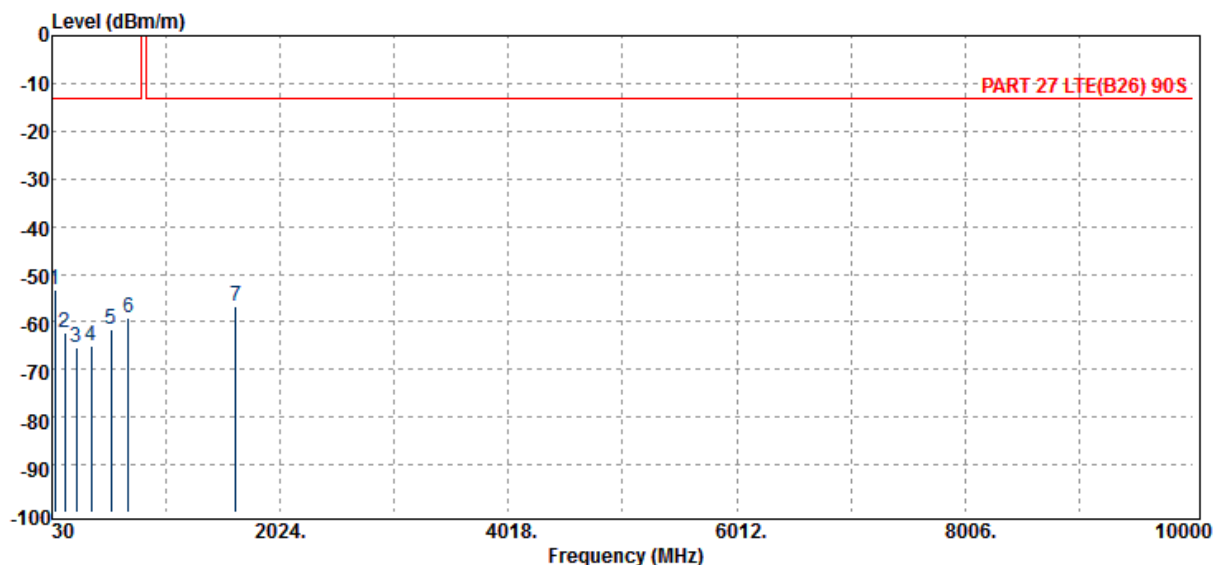
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Operation Band	:LTE B26	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:819 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:H Plane	Measurement Pol.	Antenna:VERTICAL



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
54.25	S	-53.24	-42.28	-10.18	-0.78	-13.00	-40.24
139.61	S	-62.28	-58.73	-2.29	-1.26	-13.00	-49.28
241.46	S	-65.27	-67.08	3.49	-1.68	-13.00	-52.27
371.44	S	-65.15	-66.89	3.79	-2.05	-13.00	-52.15
548.95	S	-61.57	-63.58	3.98	-1.97	-13.00	-48.57
694.45	S	-59.05	-60.13	3.69	-2.61	-13.00	-46.05
1638.00	H	-56.59	-59.20	6.94	-4.34	-13.00	-43.59

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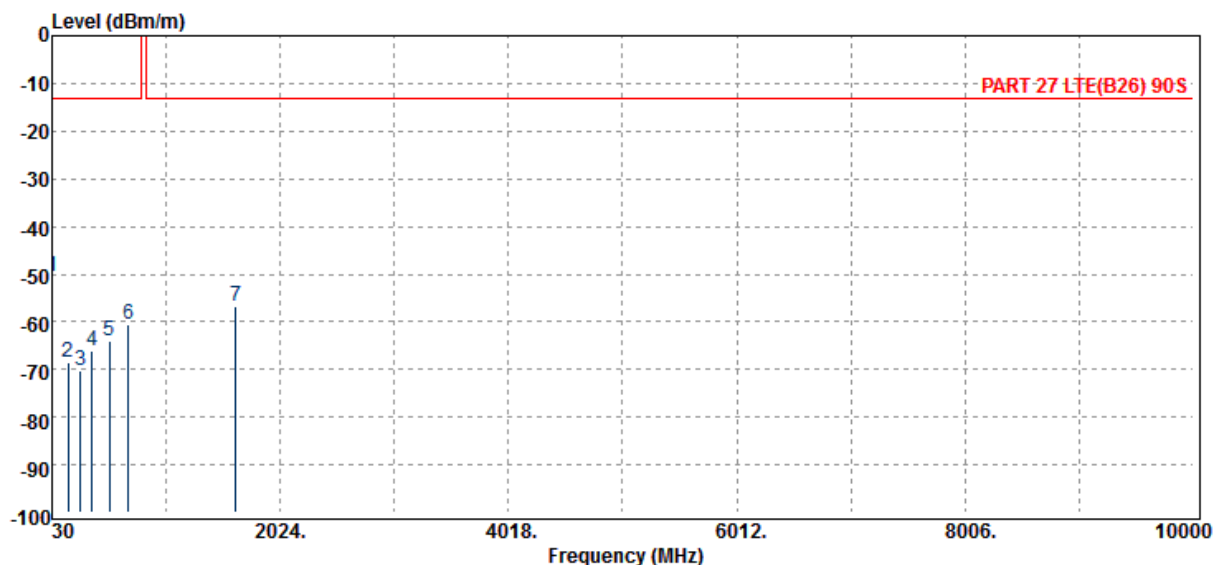
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Operation Band	:LTE B26	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:819 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:H Plane	Measurement Pol.	Antenna :HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	S	-50.37	-35.21	-14.58	-0.58	-13.00	-37.37
167.74	S	-68.39	-66.32	-0.76	-1.32	-13.00	-55.39
282.20	S	-70.24	-71.91	3.42	-1.75	-13.00	-57.24
376.29	S	-66.11	-67.86	3.78	-2.03	-13.00	-53.11
534.40	S	-64.16	-65.98	4.00	-2.19	-13.00	-51.16
694.45	S	-60.58	-61.66	3.69	-2.61	-13.00	-47.58
1638.00	H	-56.70	-59.31	6.94	-4.34	-13.00	-43.70

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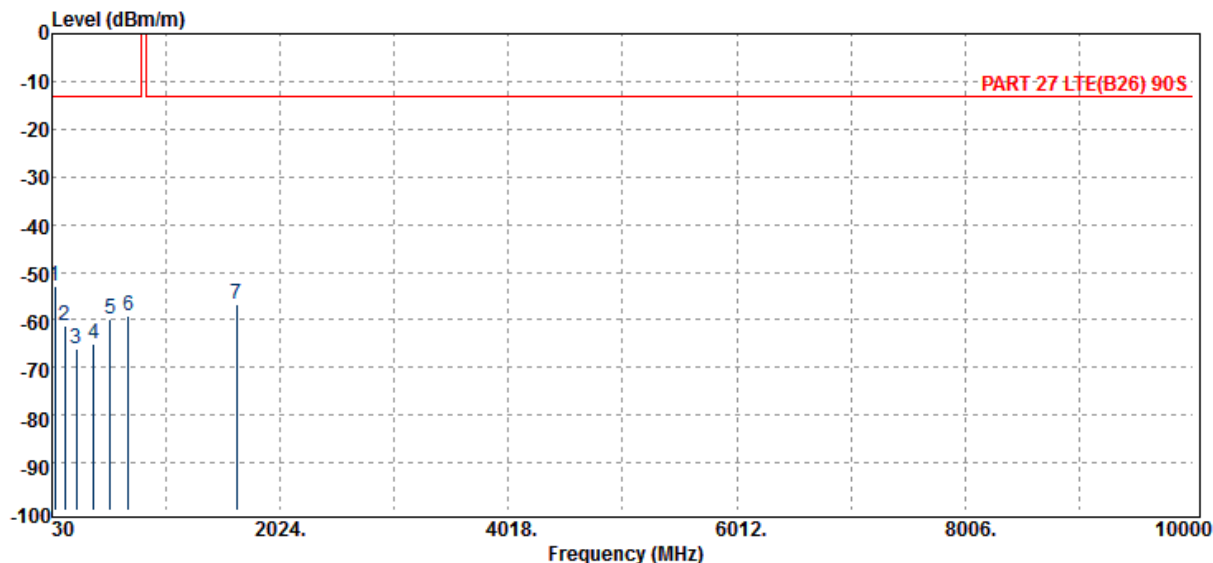
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Operation Band	:LTE B26	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:822.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:H Plane	Measurement Pol.	Antenna:VERTICAL



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
56.19	S	-52.80	-42.28	-9.72	-0.79	-13.00	-39.80
138.64	S	-61.30	-57.79	-2.26	-1.25	-13.00	-48.30
239.52	S	-66.02	-67.83	3.47	-1.67	-13.00	-53.02
393.75	S	-65.22	-66.88	3.73	-2.07	-13.00	-52.22
542.16	S	-59.82	-61.94	3.99	-1.87	-13.00	-46.82
696.39	S	-59.11	-60.34	3.69	-2.46	-13.00	-46.11
1645.00	H	-56.67	-59.28	6.96	-4.35	-13.00	-43.67

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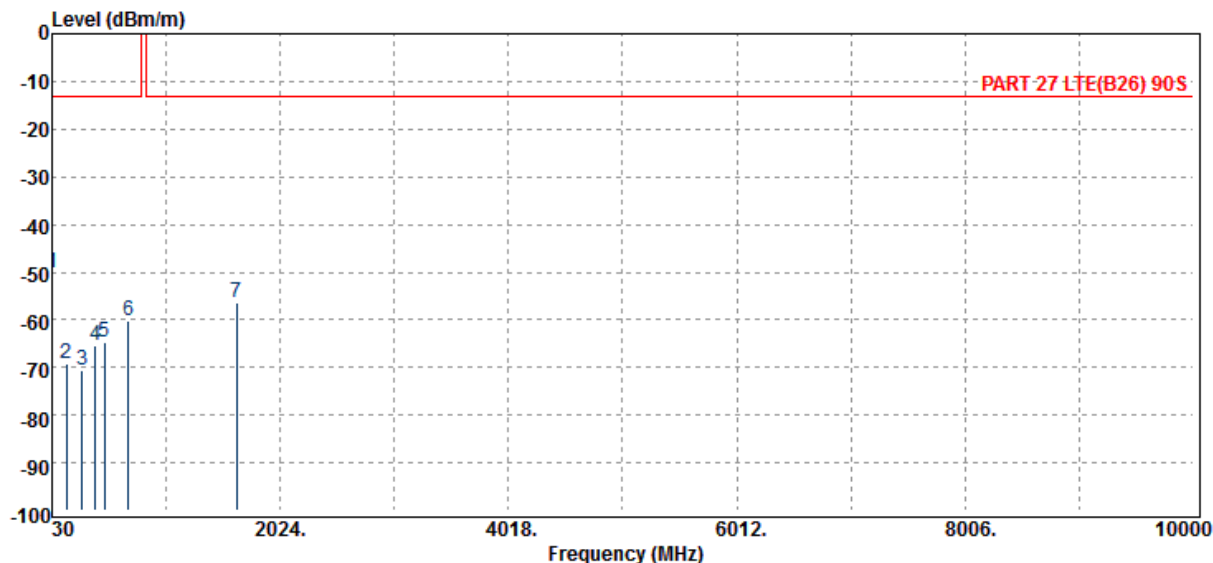
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Operation Band	:LTE B26	Temp./Humi.	:24.1 deg_C / 65 RH
Fundamental Frequency	:822.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:H Plane	Measurement Pol.	Antenna :HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	S	-50.21	-35.05	-14.58	-0.58	-13.00	-37.21
156.10	S	-69.25	-66.49	-1.46	-1.30	-13.00	-56.25
296.75	S	-70.52	-72.26	3.55	-1.81	-13.00	-57.52
410.24	S	-65.52	-67.06	3.68	-2.13	-13.00	-52.52
490.75	S	-64.58	-66.58	3.96	-1.96	-13.00	-51.58
696.39	S	-60.30	-61.53	3.69	-2.46	-13.00	-47.30
1645.00	H	-56.47	-59.08	6.96	-4.35	-13.00	-43.47

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f (886-2) 2298-0488

www.tw.sgs.com

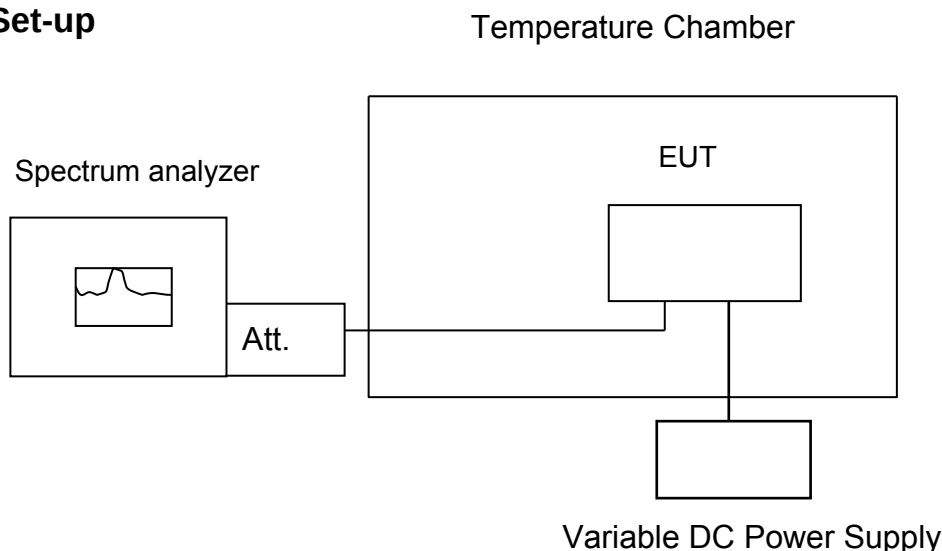
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11. FREQUENCY STABILITY MEASUREMENT

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

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11.3. Measurement Procedure

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

Set chamber temperature to 25°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.
Power Meter	Anritsu	ML2495A	1005007	12/29/2017	12/28/2018
Power Sensor	Anritsu	MA2411B	917032	12/29/2017	12/28/2018
Power Meter	Anritsu	ML2496A	1242004	10/16/2017	10/15/2018
Power Sensor	Anritsu	MA2411B	1207365	10/16/2017	10/15/2018
Power Sensor	Anritsu	MA2411B	1207368	10/16/2017	10/15/2018
EXA Spectrum Analyzer	Agilent	N9010A	MY54200716	10/16/2017	10/15/2018
EXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/09/2018	04/08/2019
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2018	01/01/2019
Coaxial Cable	HU-BER+SUHNER	SUCOFLEX 102	23670/2	01/02/2018	01/01/2019
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2018	01/01/2019
Splitter	Agilent	11636B	N/A	01/02/2018	01/01/2019
DC Power Supply	Agilent	E3640A	MY52410006	11/28/2017	11/27/2018
Temperature Chamber	TERCHY	MHG-120LF	911009	05/19/2017	05/18/2018
Power Meter	Anritsu	ML2495A	1005007	12/29/2017	12/28/2018

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11.5. Measurement Result

FREQUENCY ERROR vs. VOLTAGE

Reference Frequency: WCDMA II Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
4.255	20	1880000005	5	4700
3.7	20	1880000006	6	4700
3.14	20	1880000009	9	4700
3 (End point)	20	1880000005	5	4700

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency: WCDMA II Mid Channel 1880				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.7	50	1880000001	1	4700
3.7	40	1879999997	-3	4700
3.7	30	1880000007	7	4700
3.7	20	1879999998	-2	4700
3.7	10	1879999993	-7	4700
3.7	0	1880000008	8	4700
3.7	-10	1880000003	3	4700
3.7	-20	1880000007	7	4700
3.7	-30	1880000001	1	4700

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency: WCDMA IV Mid Channel 1732.6 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
4.255	20	1732599999	-1	4331
3.7	20	1732599992	-8	4331
3.14	20	1732599996	-4	4331
3 (End point)	20	1732600001	1	4331

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency: WCDMA II Mid Channel 1880				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.7	50	1732600004	4	4331
3.7	40	1732600001	1	4331
3.7	30	1732600006	6	4331
3.7	20	1732599994	-6	4331
3.7	10	1732599994	-6	4331
3.7	0	1732600008	8	4331
3.7	-10	1732599992	-8	4331
3.7	-20	1732599995	-5	4331
3.7	-30	1732599992	-8	4331

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency: WCDMA V Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
4.255	20	836599993	-7	2091
3.7	20	836599992	-8	2091
3.14	20	836600007	7	2091
3 (End point)	20	836600005	5	2091

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency: WCDMA V Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.7	50	836600002	2	2091
3.7	40	836599993	-7	2091
3.7	30	836599997	-3	2091
3.7	20	836600007	7	2091
3.7	10	836600002	2	2091
3.7	0	836599999	-1	2091
3.7	-10	836599992	-8	2091
3.7	-20	836600009	9	2091
3.7	-30	836599995	-5	2091

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency:		LTE B2 Mid Channel	1880.0	MHz	20M QPSK CH 18900
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
4.25	25	1880.000006	5.99999998	4700	
3.7	25	1880.000004	3.99999999	4700	
3.145	25	1879.999998	-2	4700	
3	25	1880.000009	9.00000009	4700	

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency:		LTE B2 Mid Channel	1880.0	MHz	20M QPSK CH 18900
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
3.7	-30	1880.000001	1.00000011	4700	
3.7	-20	1880.000009	9.00000009	4700	
3.7	-10	1879.999996	-4	4700	
3.7	0	1880.000000	0	4700	
3.7	10	1880.000001	1.00000011	4700	
3.7	20	1880.000002	1.99999999	4700	
3.7	30	1880.000000	0	4700	
3.7	40	1879.999999	-1.0000001	4700	
3.7	50	1880.000005	5.0000001	4700	

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency:		LTE B4 Mid Channel	1732.5	MHz	20M QPSK CH 20175
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
4.25	25	1732.500003	3.00000011	4331	
3.7	25	1732.500008	7.99999998	4331	
3.145	25	1732.500003	3.00000011	4331	
3	25	1732.500000	0	4331	

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency:		LTE B4 Mid Channel	1732.5	MHz	20M QPSK CH 20175
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
3.7	-30	1732.499995	-5.00000001	4331	
3.7	-20	1732.499998	-2	4331	
3.7	-10	1732.499999	-1.00000001	4331	
3.7	0	1732.499996	-4	4331	
3.7	10	1732.500003	3.00000011	4331	
3.7	20	1732.499998	-2	4331	
3.7	30	1732.499999	-1.00000001	4331	
3.7	40	1732.500004	3.99999999	4331	
3.7	50	1732.500000	0	4331	

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency:		LTE B5 Mid Channel	836.5	MHz	10M QPSK CH 20525
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
4.25	25	836.500009	8.99999998	2091	
3.7	25	836.500000	0	2091	
3.145	25	836.500008	7.99999998	2091	
3	25	836.500009	8.99999998	2091	

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency:		LTE B5 Mid Channel	836.5	MHz	10M QPSK CH 20525
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
3.7	-30	836.500007	6.99999998	2091	
3.7	-20	836.500004	3.99999999	2091	
3.7	-10	836.500003	2.99999999	2091	
3.7	0	836.500002	1.99999999	2091	
3.7	10	836.500007	6.99999998	2091	
3.7	20	836.500004	3.99999999	2091	
3.7	30	836.499996	-4	2091	
3.7	40	836.500002	1.99999999	2091	
3.7	50	836.499995	-5	2091	

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f (886-2) 2298-0488

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency:		LTE B17 Mid Channel	710	MHz	10M QPSK CH 23790
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
4.25	25	709.999997	-3	1775	
3.7	25	710.000004	3.99999999	1775	
3.145	25	710.000000	0	1775	
3	25	710.000001	1	1775	

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency:		LTE B17 Mid Channel	710	MHz	10M QPSK CH 23790
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
3.7	-30	709.999996	-4	1775	
3.7	-20	709.999999	-1	1775	
3.7	-10	710.000007	6.99999998	1775	
3.7	0	709.999998	-2	1775	
3.7	10	709.999995	-5	1775	
3.7	20	709.999995	-5	1775	
3.7	30	710.000001	1	1775	
3.7	40	709.999996	-4	1775	
3.7	50	710.000001	1	1775	

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency:		LTE B26 Mid Channel	836.5	MHz	15M QPSK CH 26915
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
4.25	25	831.500001	1	2091	
3.7	25	831.499995	-5	2091	
3.145	25	831.500006	5.99999998	2091	
3	25	831.500007	6.99999998	2091	

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency:		LTE B26 Mid Channel	836.5	MHz	15M QPSK CH 26915
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
3.7	-30	831.500001	1	2091	
3.7	-20	831.500004	3.99999999	2091	
3.7	-10	831.499998	-2	2091	
3.7	0	831.500008	7.99999998	2091	
3.7	10	831.500001	1	2091	
3.7	20	831.499999	-1	2091	
3.7	30	831.500005	4.99999999	2091	
3.7	40	831.500001	1	2091	
3.7	50	831.500002	1.99999999	2091	

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FREQUENCY ERROR vs. VOLTAGE (LTE B26 for Part 90S)

Reference Frequency:		LTE B26 Mid Channel	819.0	MHz	1.4M QPSK CH 26740
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
4.25	25	819.000007	6.99999998	2048	
3.7	25	819.000006	5.99999998	2048	
3.145	25	818.999996	-4	2048	
3	25	819.000009	8.99999998	2048	

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency:		LTE B26 Mid Channel	819.0	MHz	1.4M QPSK CH 26740
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
3.7	-30	819.000002	1.99999999	2048	
3.7	-20	819.000000	0	2048	
3.7	-10	819.000003	2.99999999	2048	
3.7	0	819.000006	5.99999998	2048	
3.7	10	819.000003	2.99999999	2048	
3.7	20	819.000005	4.99999999	2048	
3.7	30	819.000004	3.99999999	2048	
3.7	40	819.000000	0	2048	
3.7	50	819.000004	3.99999999	2048	

Note: The battery is rated 3.7V dc.

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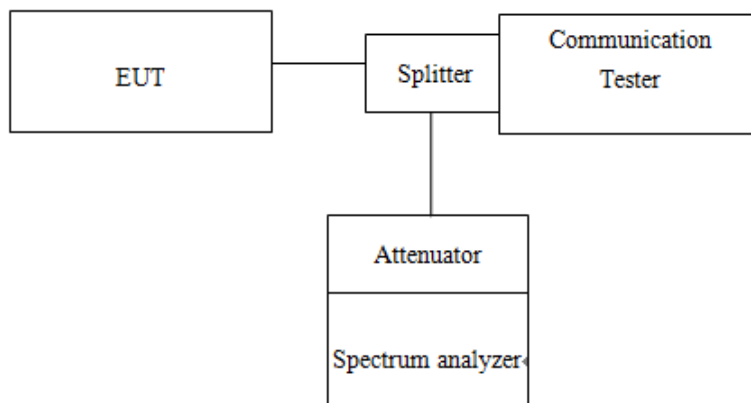
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12. PEAK TO AVERAGE RATIO

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.

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12.4. Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Meter	Anritsu	ML2495A	1005007	12/29/2017	12/28/2018
Power Sensor	Anritsu	MA2411B	917032	12/29/2017	12/28/2018
Power Meter	Anritsu	ML2496A	1242004	10/16/2017	10/15/2018
Power Sensor	Anritsu	MA2411B	1207365	10/16/2017	10/15/2018
Power Sensor	Anritsu	MA2411B	1207368	10/16/2017	10/15/2018
EXA Spectrum Analyzer	Agilent	N9010A	MY54200716	10/16/2017	10/15/2018
EXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/09/2018	04/08/2019
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2018	01/01/2019
Coaxial Cable	HU-BER+SUHNER	SUCOFLEX 102	23670/2	01/02/2018	01/01/2019
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2018	01/01/2019
Splitter	Agilent	11636B	N/A	01/02/2018	01/01/2019
DC Power Supply	Agilent	E3640A	MY52410006	11/28/2017	11/27/2018
Temperature Chamber	TERCHY	MHG-120LF	911009	05/19/2017	05/18/2018

12.5. Measurement Result

Tabular Results:

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Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA II	HSDPA II	HSUPA II
1850.2	9262	3.12	3.10	3.12
1880.0	9400	3.10	3.09	3.08
1909.8	9538	2.67	2.67	2.64

Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA IV	HSDPA IV	HSUPA IV
1712.4	1312	3.16	3.14	3.16
1732.6	1413	3.31	3.29	3.30
1752.6	1513	3.30	3.32	3.30

Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA V	HSDPA V	HSUPA V
826.4	4132	3.35	3.36	3.41
836.6	4183	3.42	3.40	3.42
846.6	4233	3.35	3.34	3.38

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LTE BAND 2							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
1850.7	18607	6.00	13	1851.5	18615	6.09	13
1880.0	18900	6.02	13	1880.0	18900	6.02	13
1909.3	19193	5.59	13	1908.5	19185	5.77	13

LTE BAND 2							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
1852.5	18625	6.00	13	1855.0	18650	6.17	13
1880.0	18900	5.95	13	1880.0	18900	6.00	13
1907.5	19175	5.73	13	1905.0	19150	5.89	13

LTE BAND 2							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
1857.5	18675	6.29	13	1860.0	18700	6.75	13
1880.0	18900	6.12	13	1880.0	18900	6.67	13
1902.5	19125	6.20	13	1900.0	19100	6.79	13

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LTE BAND 4							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
1710.7	19957	6.10	13	1711.5	19965	6.00	13
1732.5	20175	6.12	13	1732.5	20175	6.18	13
1754.3	20393	6.14	13	1753.5	20385	6.20	13

LTE BAND 4							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
1712.5	19957	5.93	13	1715.0	20000	6.06	13
1732.5	20175	6.09	13	1732.5	20175	6.19	13
1752.5	20375	6.15	13	1750.0	20350	6.22	13

LTE BAND 4							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
1717.5	20025	6.18	13	1720.0	20050	6.69	13
1732.5	20175	6.32	13	1732.5	20175	6.69	13
1747.5	20325	6.18	13	1745.0	20300	6.70	13

LTE BAND 17							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
706.5	23755	6.16	13	709	23780	6.20	13
710	23790	6.20	13	710	23790	6.17	13
713.5	23825	6.15	13	711	23780	6.14	13

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LTE BAND 26							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
814.7	26697	5.72	13	815.5	26705	5.82	13
831.5	26865	5.85	13	831.5	26865	5.94	13
848.3	27033	5.58	13	847.5	27025	5.73	13

LTE BAND 26							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
816.5	26715	5.78	13	820.0	26750	5.80	13
831.5	26865	5.72	13	831.5	26865	5.89	13
846.5	27015	5.68	13	844.0	26990	5.86	13

LTE BAND 26			
Channel bandwidth: 15MHz			
Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit
822.5	26775	6.06	13
831.5	26865	6.11	13
841.5	26965	6.16	13

LTE BAND 26 for part 90S							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
814.7	26697	5.65	13	815.5	26705	5.74	13
819.0	26740	5.63	13	819	26740	5.81	13
823.3	26783	5.71	13	822.5	26775	5.82	13

LTE BAND 26 for part 90S							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
816.5	26715	5.73	13	819.0	26740	5.79	13
819.0	26740	5.69	13				
821.5	26765	5.71	13				

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Measurement Results:

Please refer to next page.

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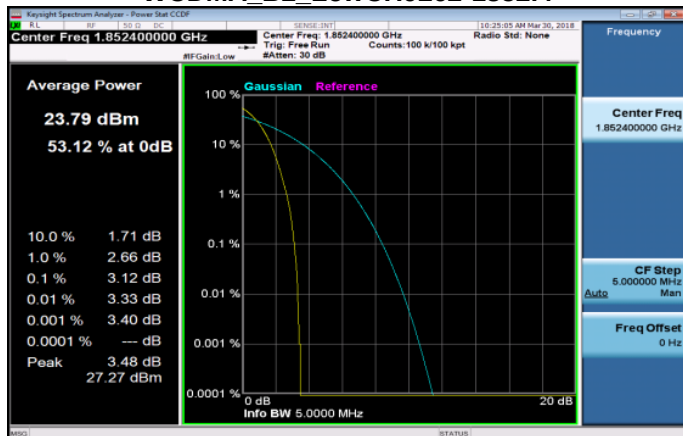
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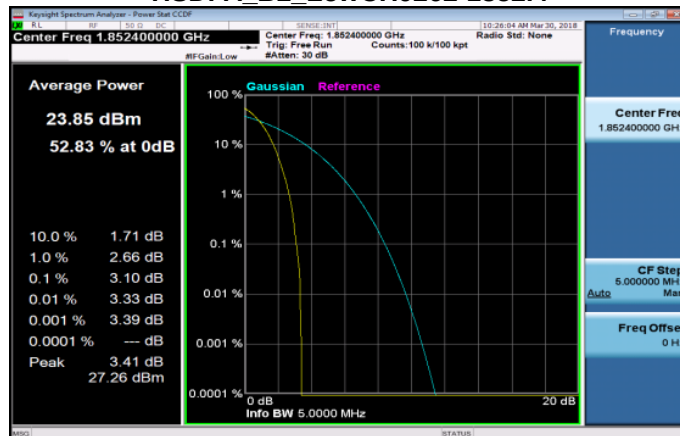
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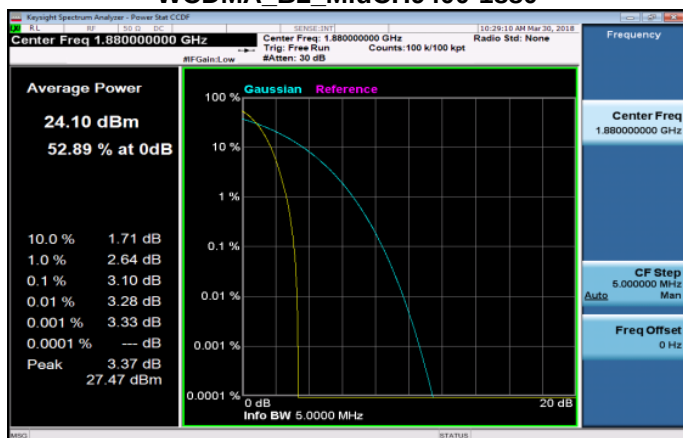
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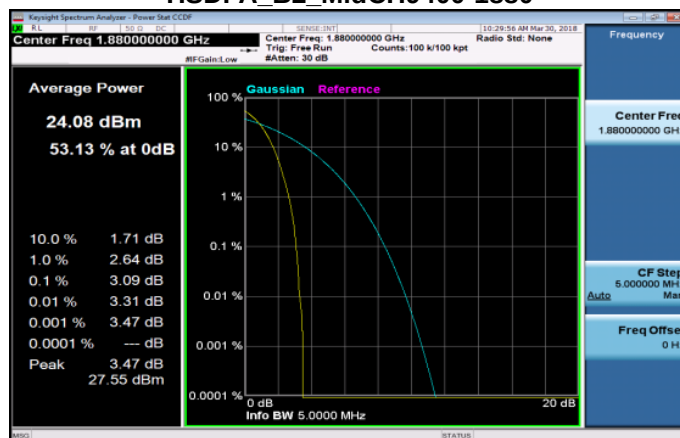
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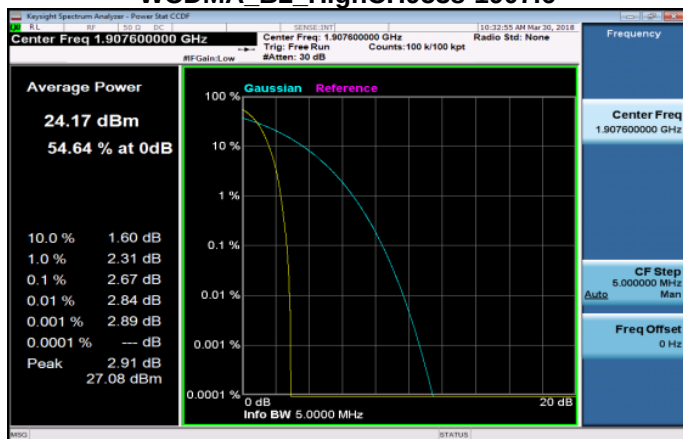
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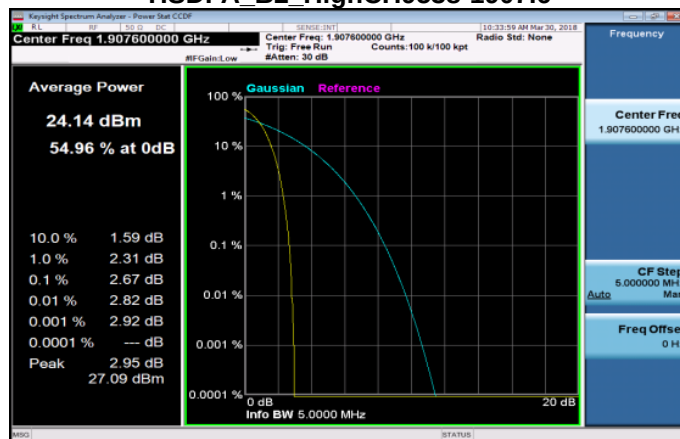
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HSDPA_B2_HighCH9538-1907.6



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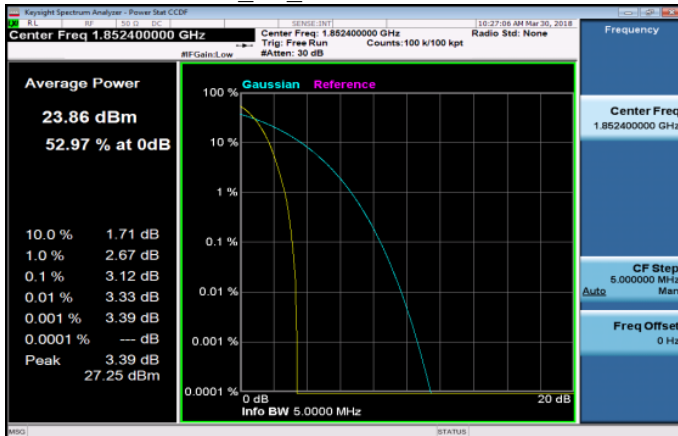
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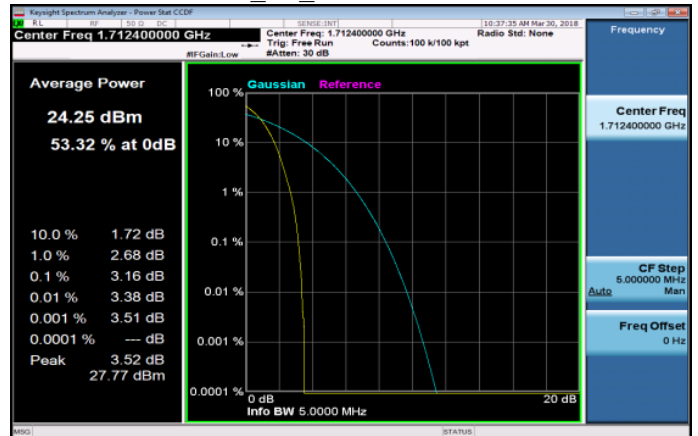
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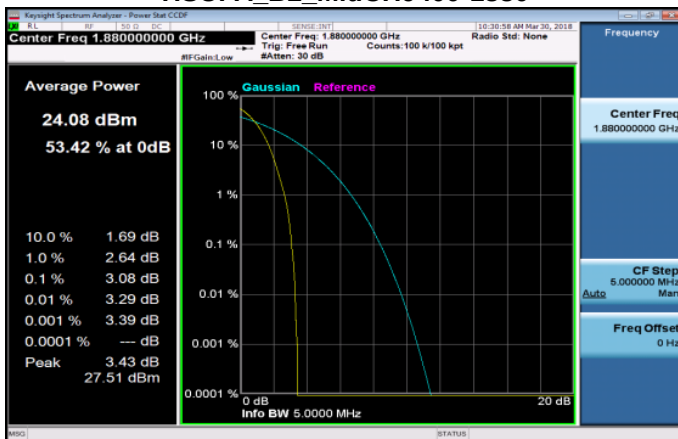
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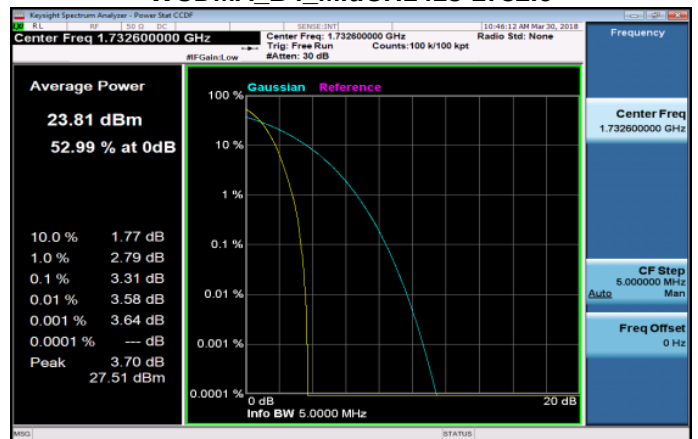
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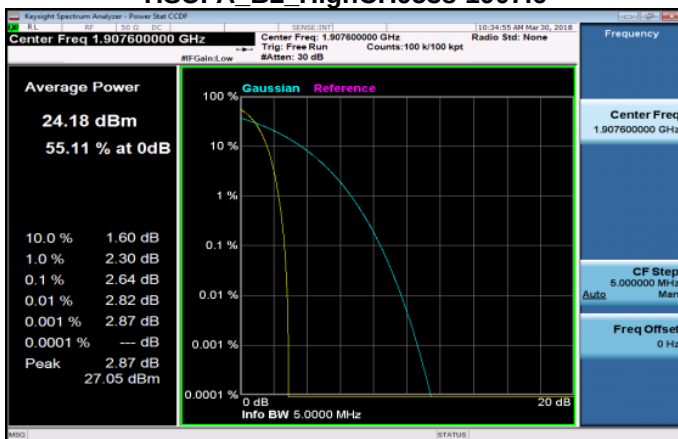
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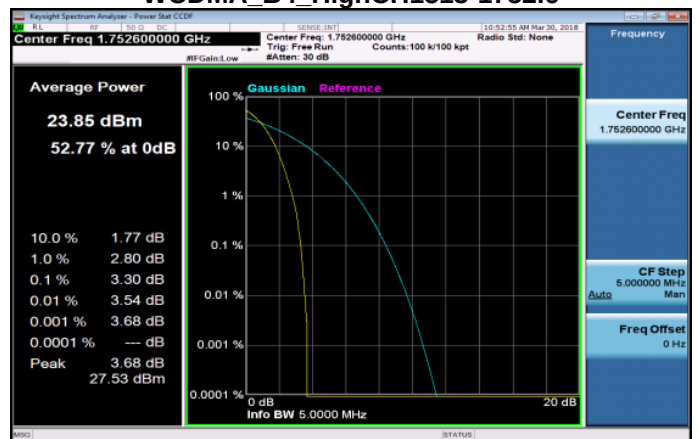
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HSUPA B2 HighCH9538-1907.6



WCDMA B4 HighCH1513-1752.6



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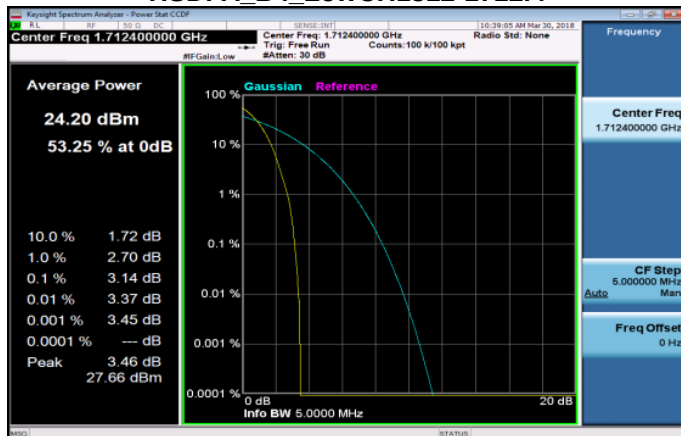
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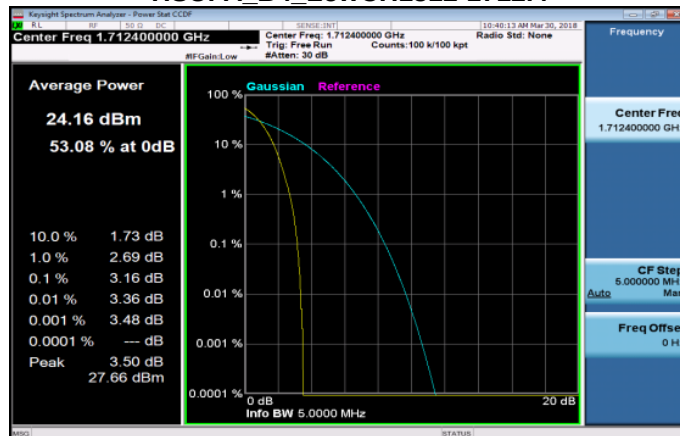
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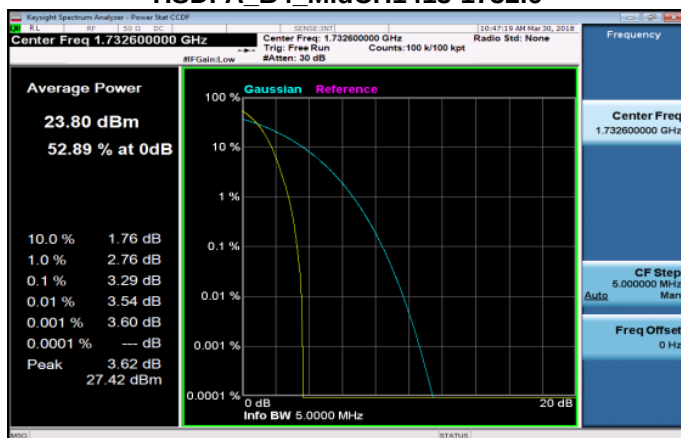
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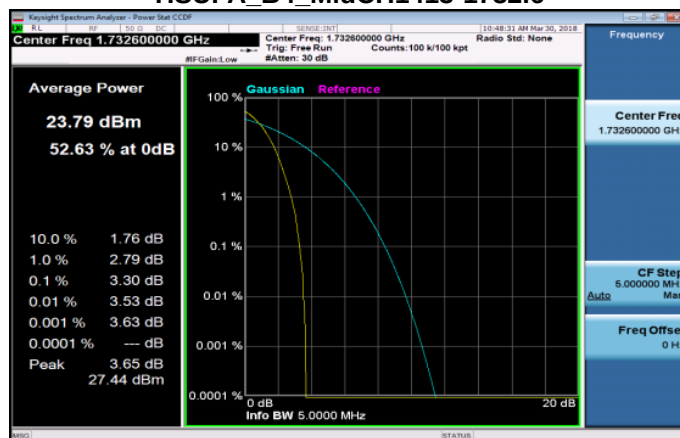
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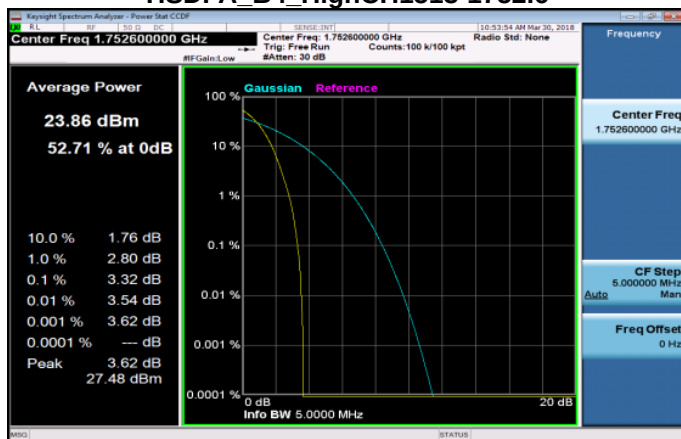
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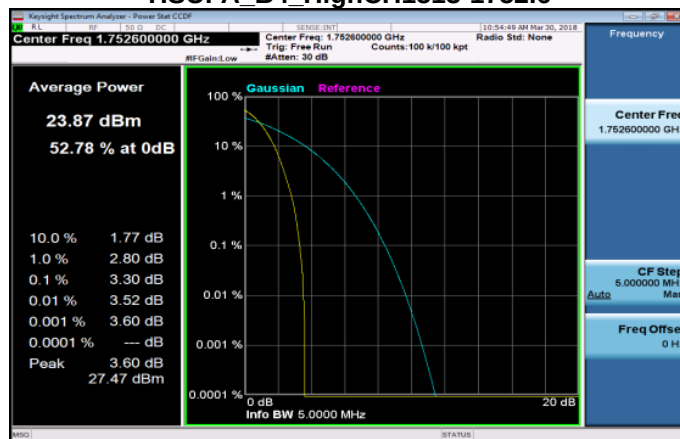
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HSDPA B4 HighCH1513-1752.6



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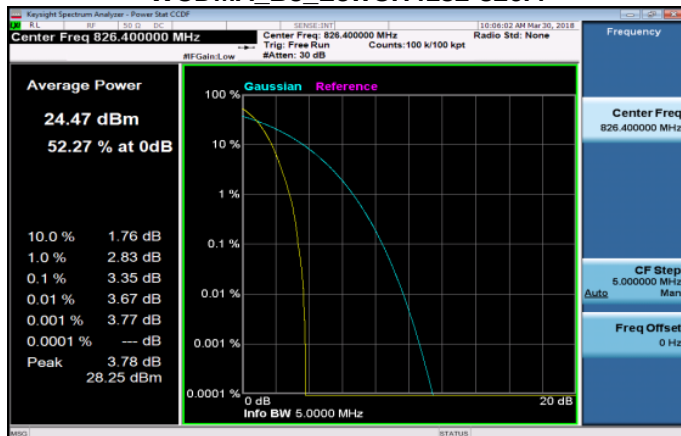
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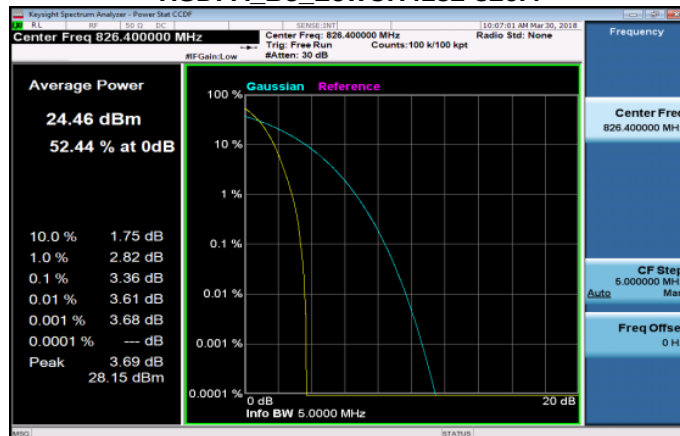
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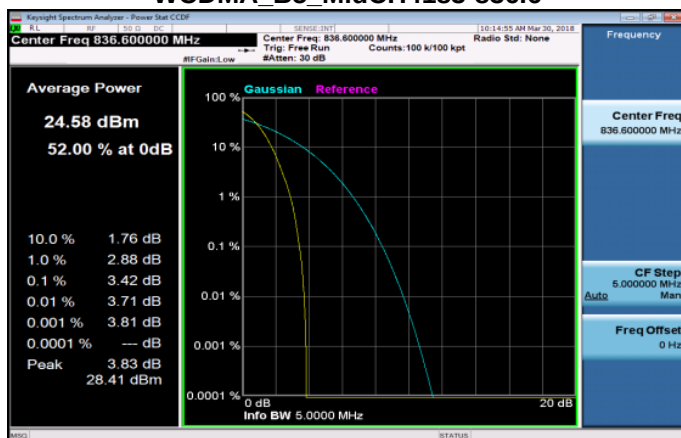
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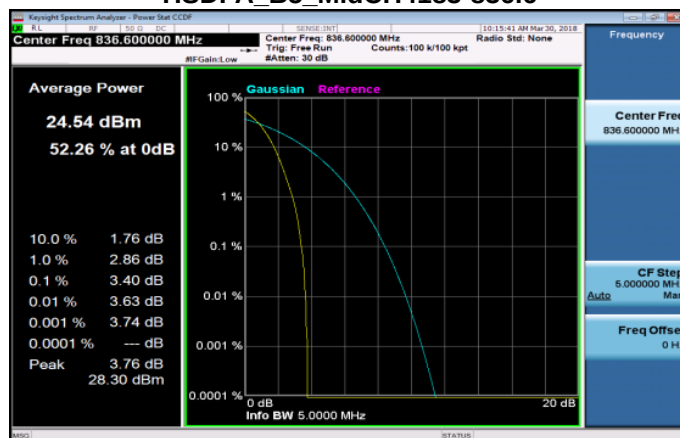
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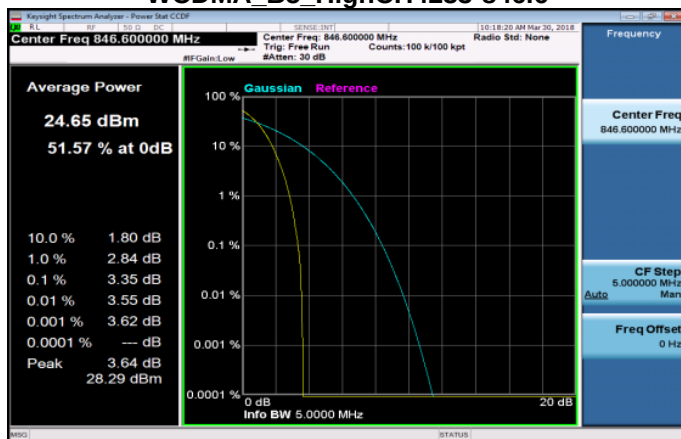
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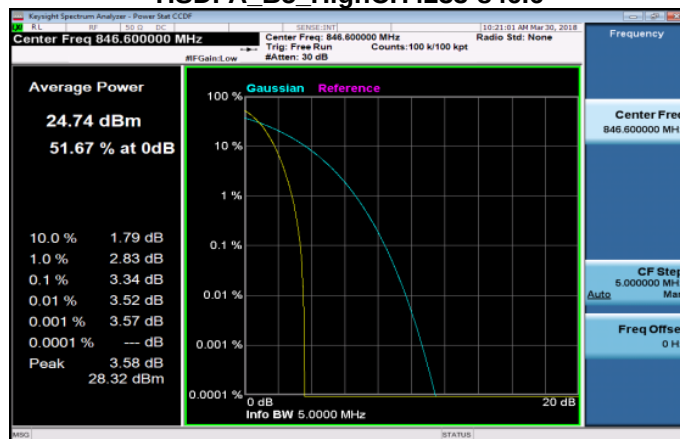
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WCDMA B5 HighCH4233-846.6



HSDPA B5 HighCH4233-846.6



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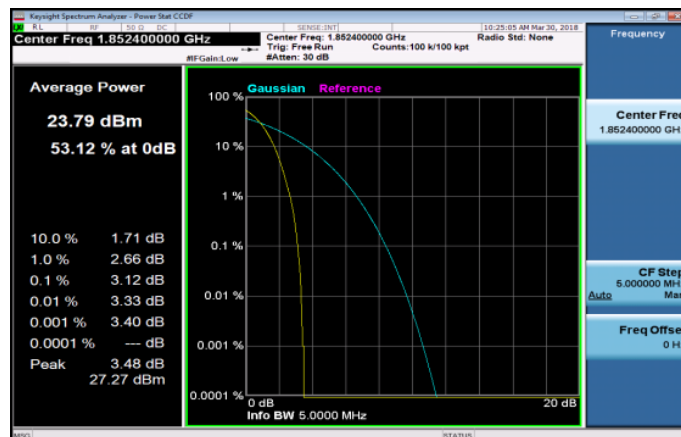
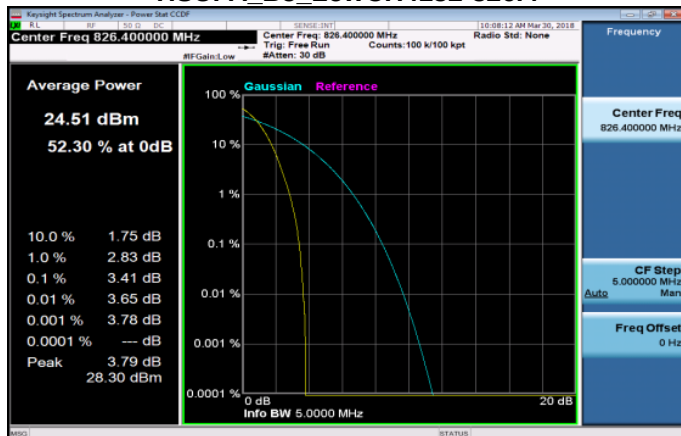
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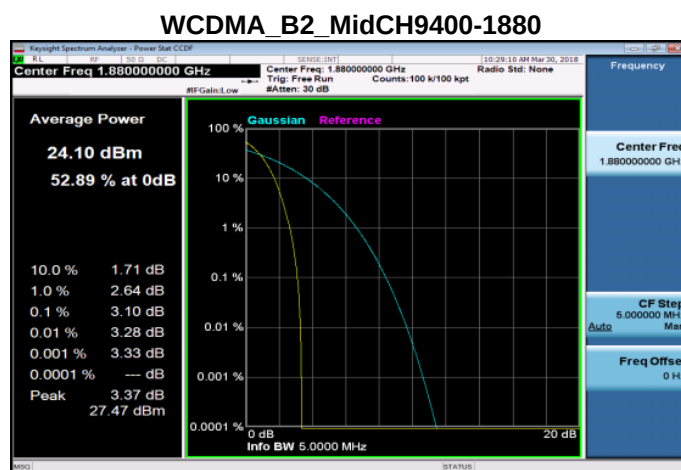
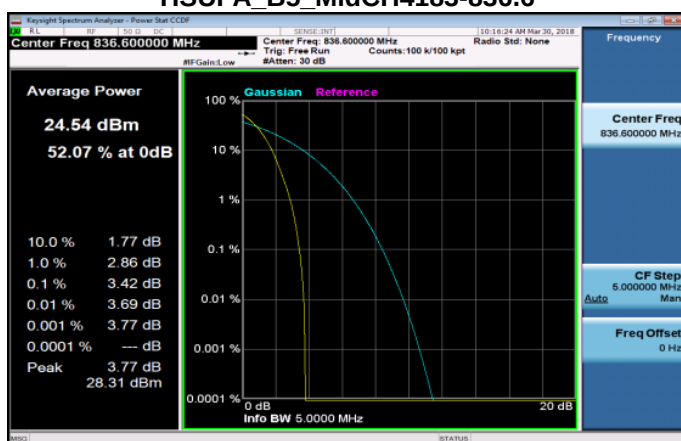
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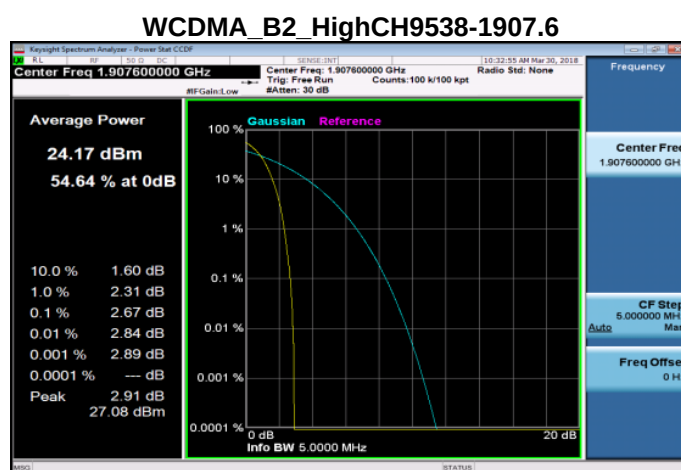
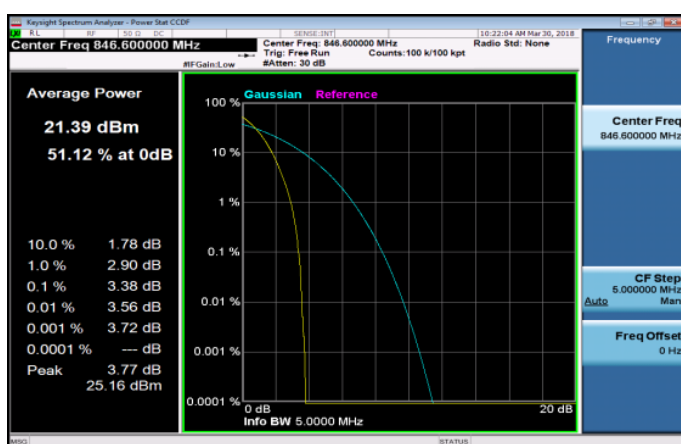
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WCDMA_B2_LowCH9262-1852.4

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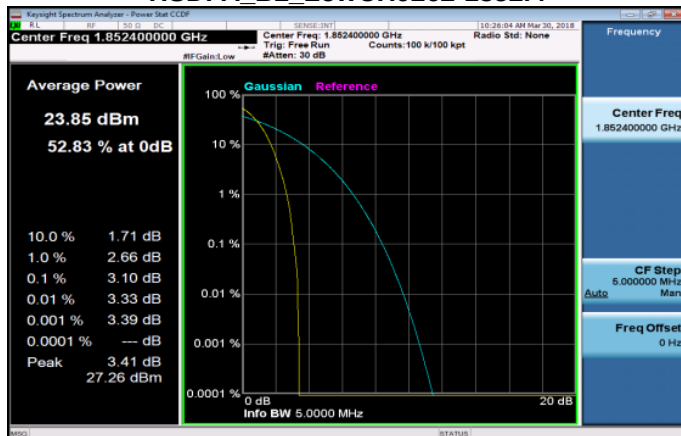
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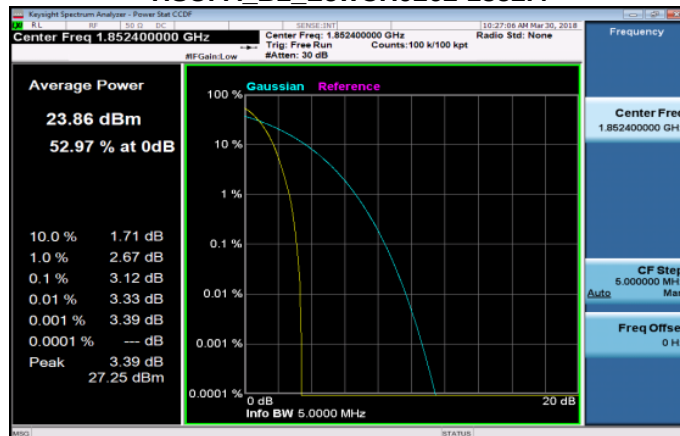
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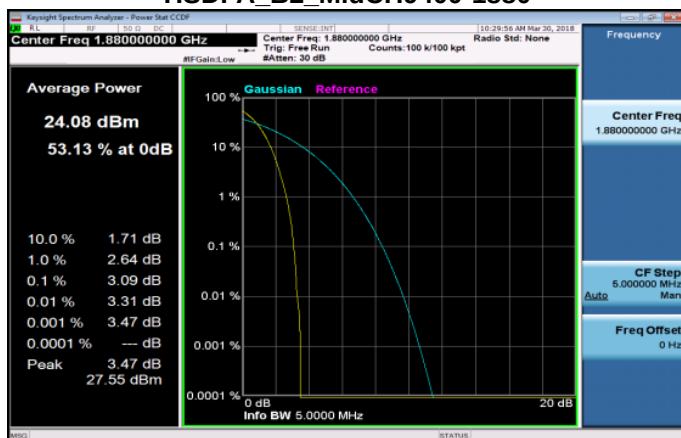
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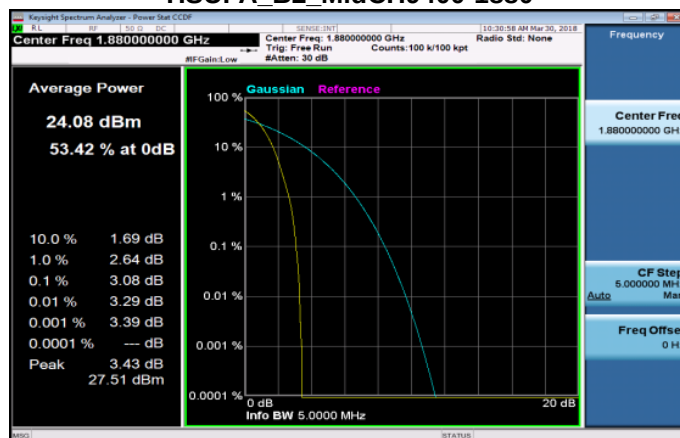
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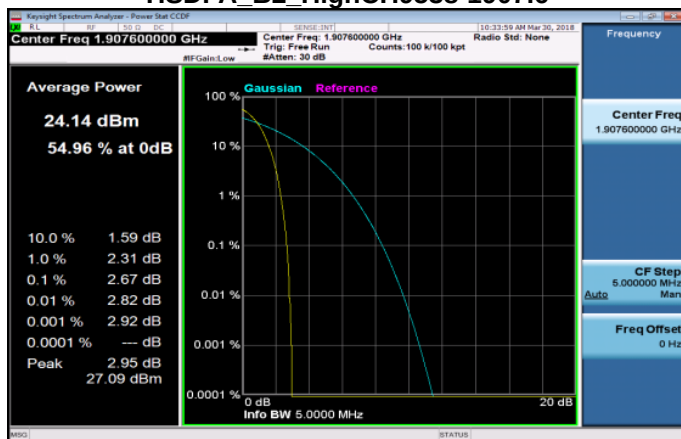
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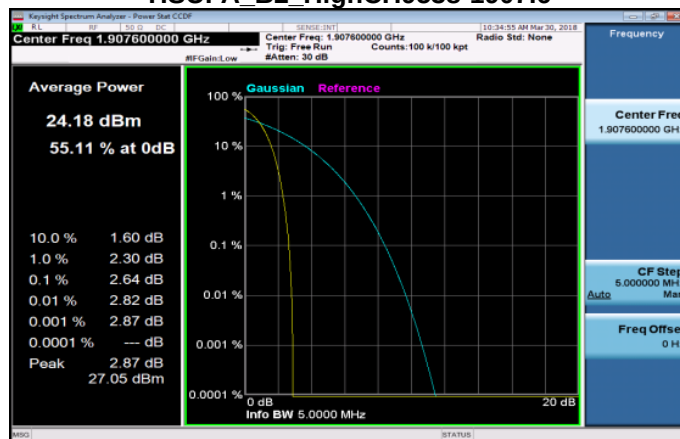
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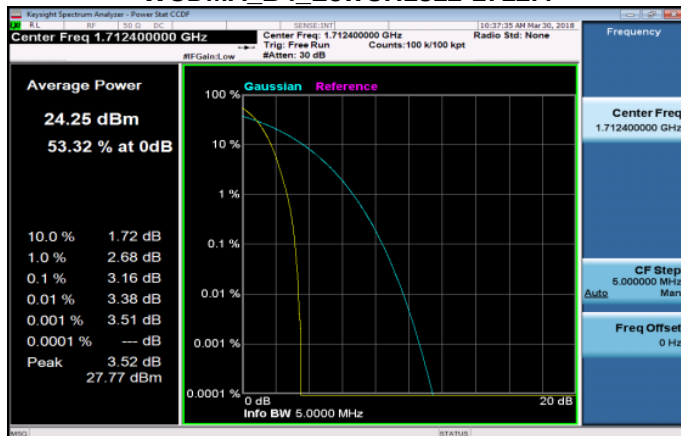
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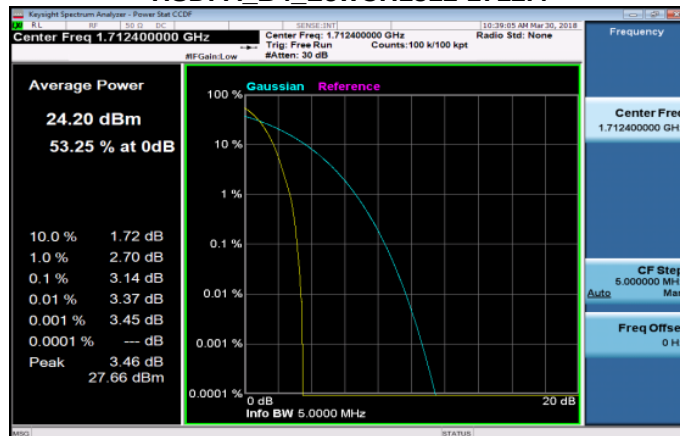
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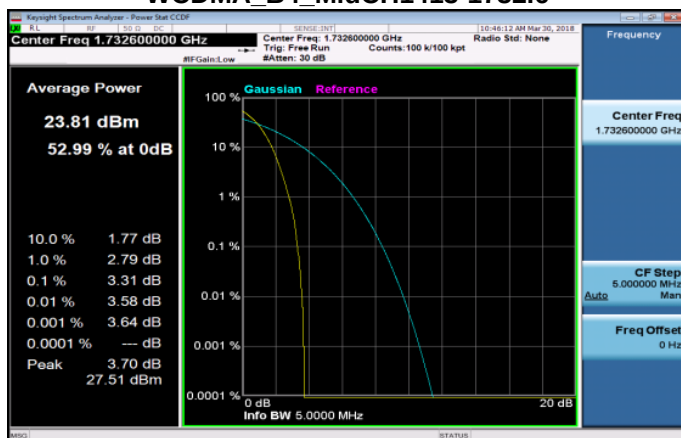
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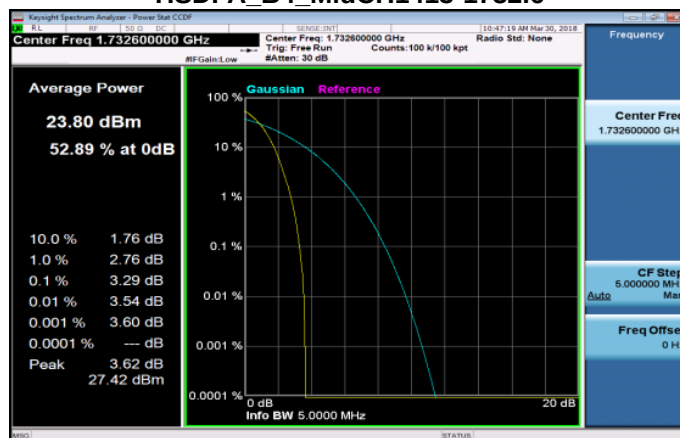
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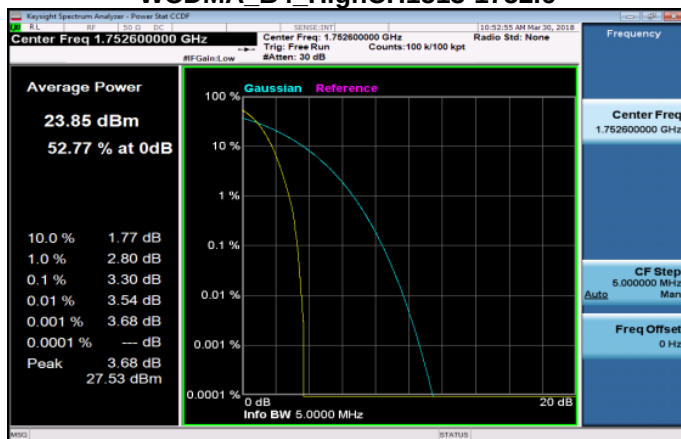
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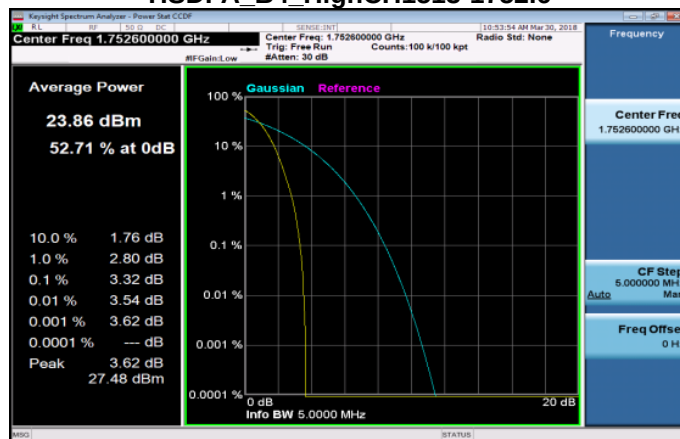
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HSDPA B4 HighCH1513-1752.6



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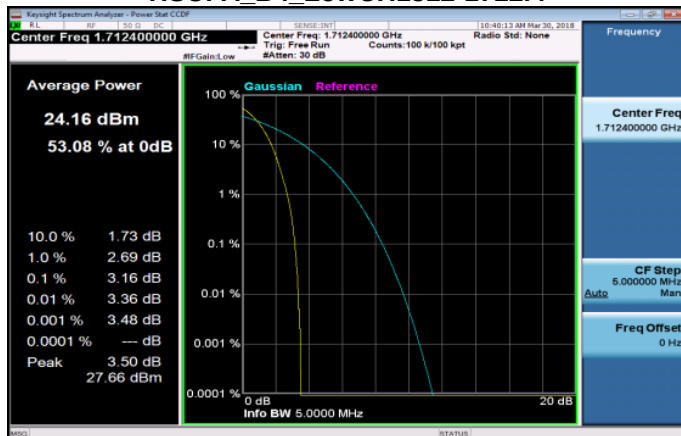
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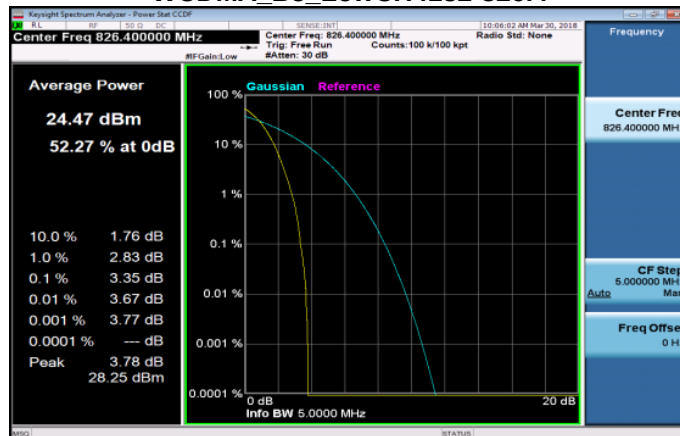
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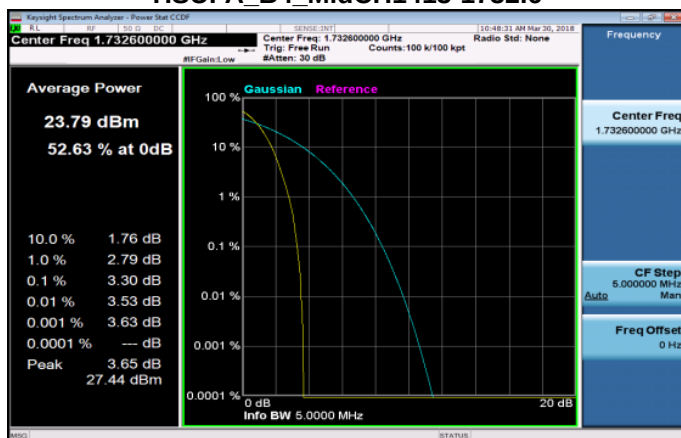
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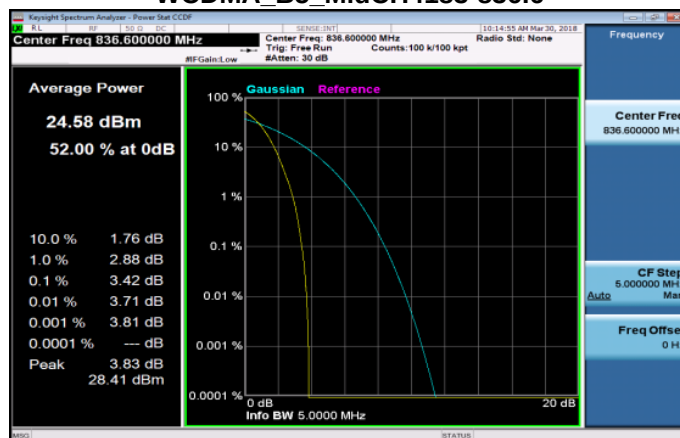
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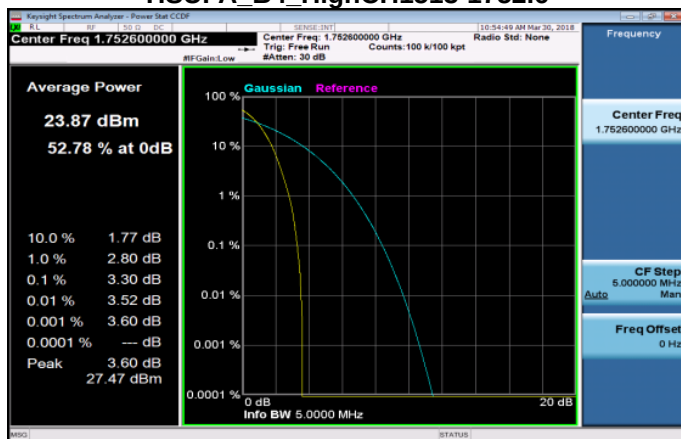
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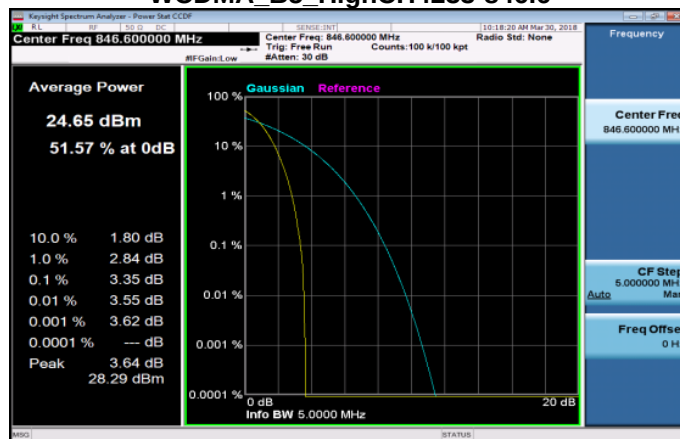
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HSUPA_B4_HighCH1513-1752.6



WCDMA_B5_HighCH4233-846.6



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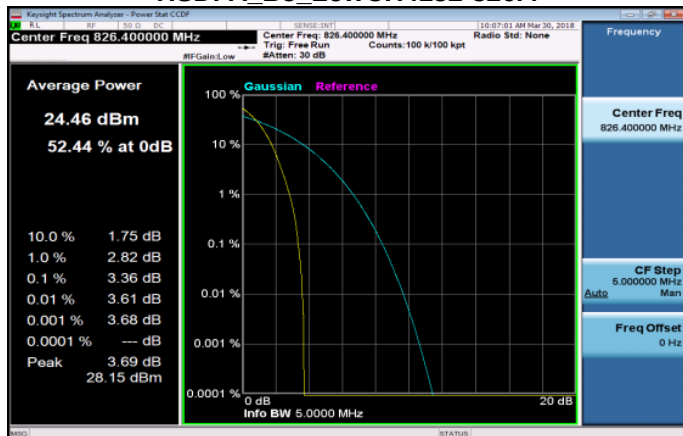
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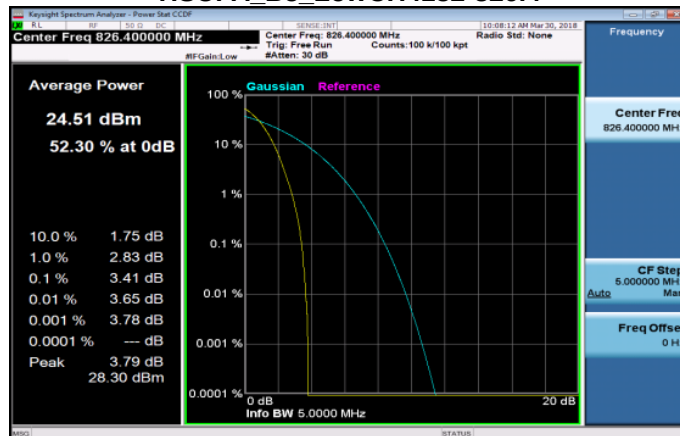
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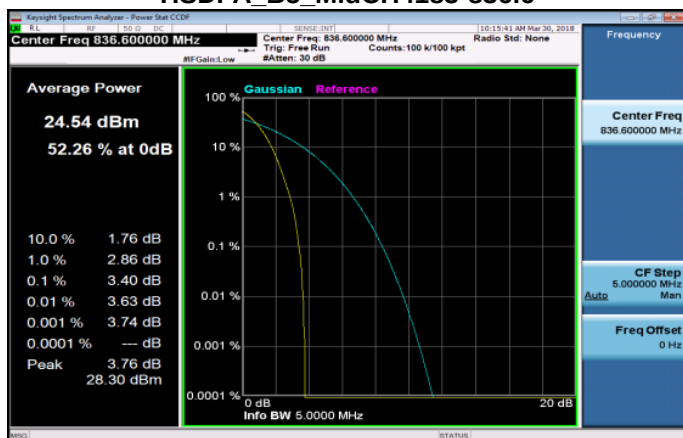
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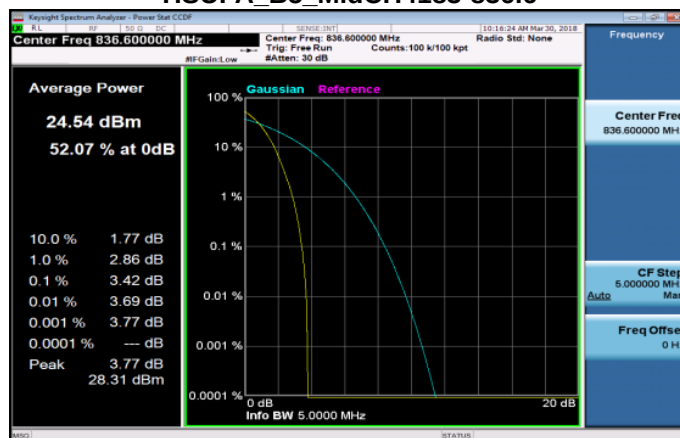
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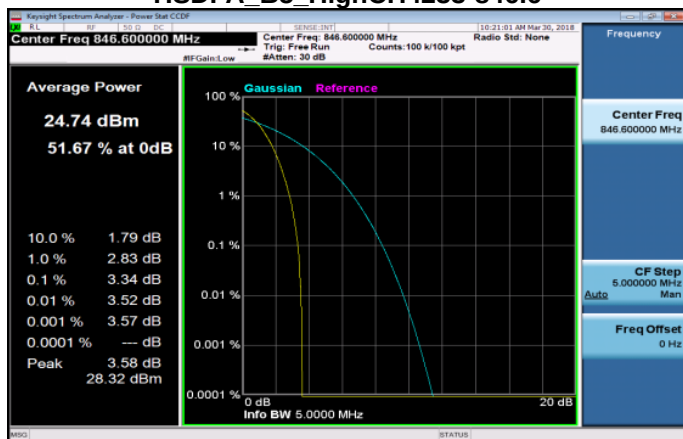
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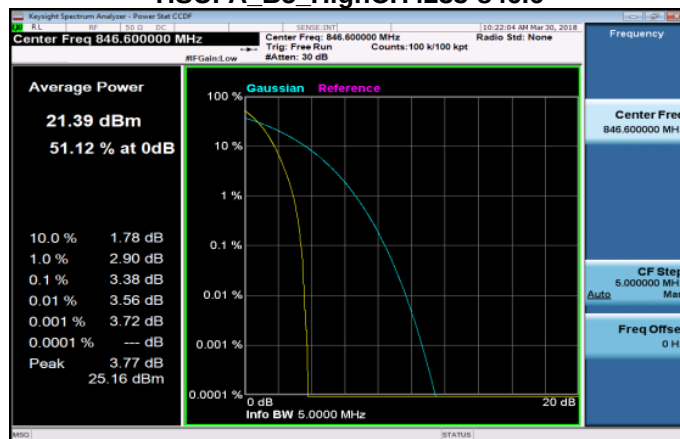
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HSDPA B5 HighCH4233-846.6



HSUPA B5 HighCH4233-846.6



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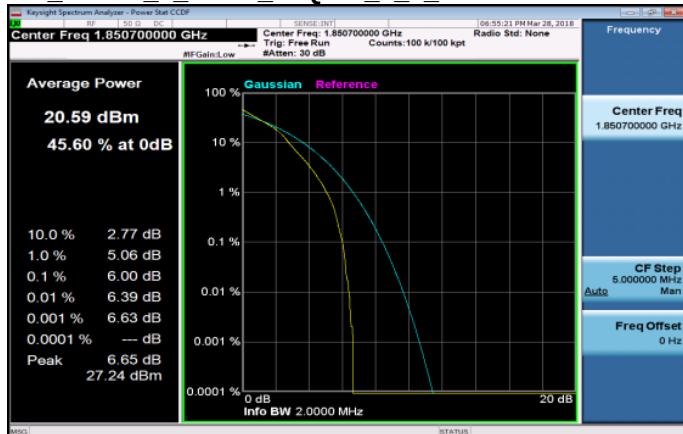
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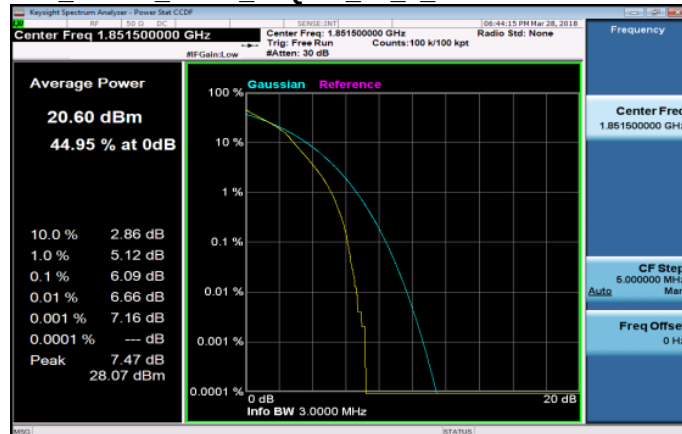
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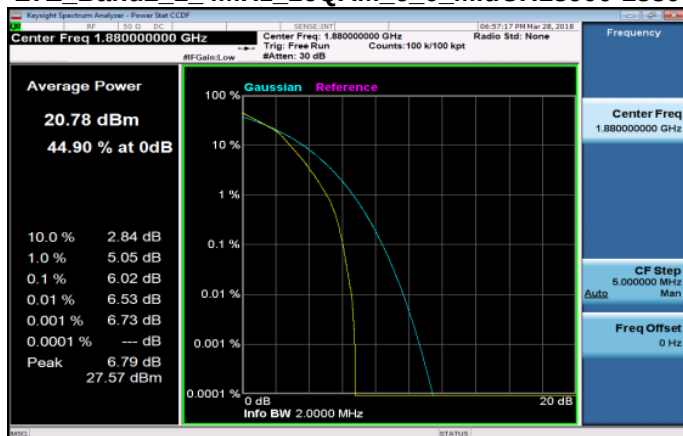
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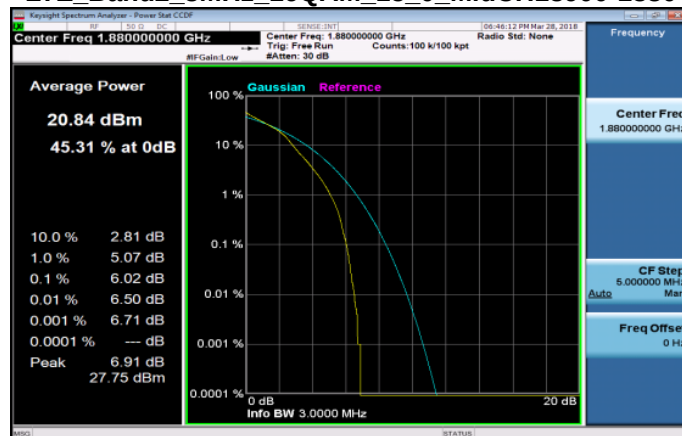
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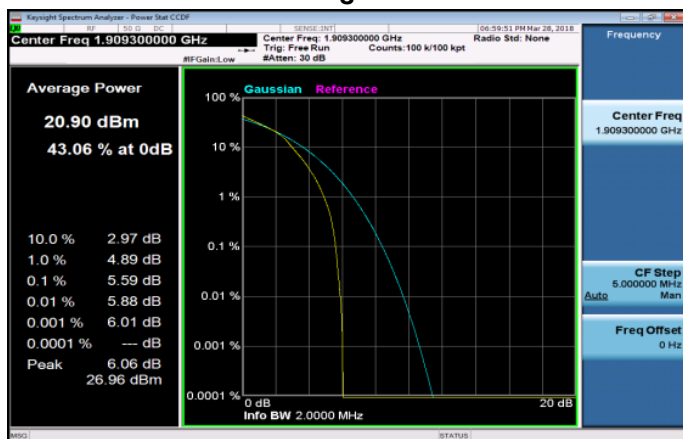


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LTE_Band2_1_4MHz_16QAM_6_0_HighCH19193-1909.

3



LTE_Band2_3MHz_16QAM_15_0_HighCH19185-1908.5



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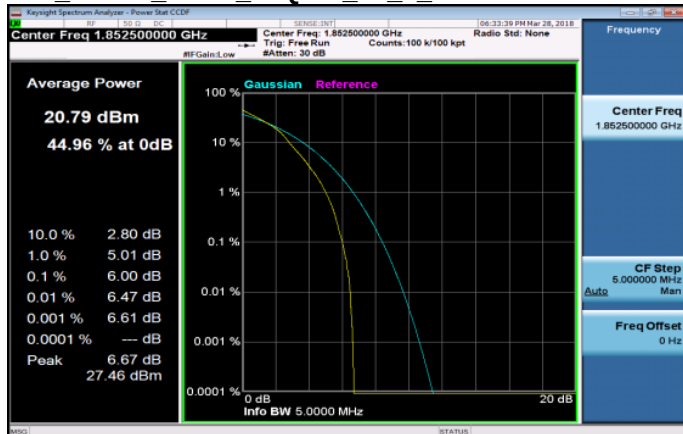
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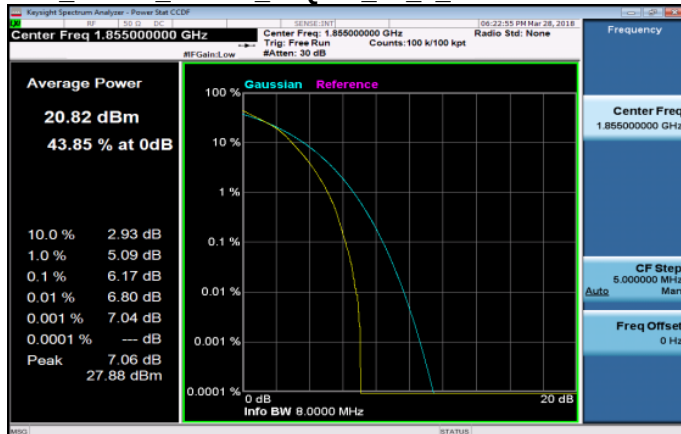
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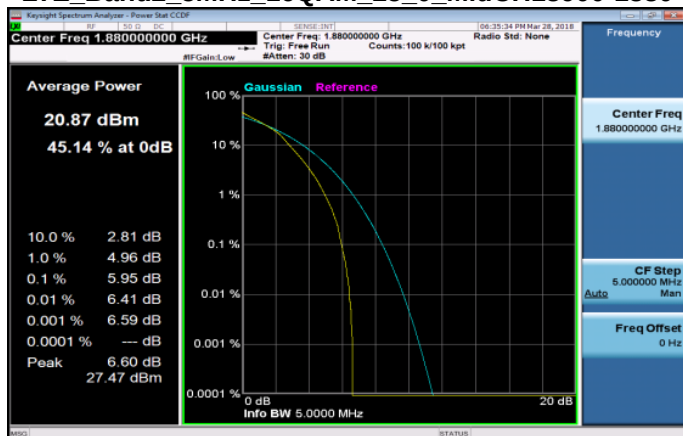
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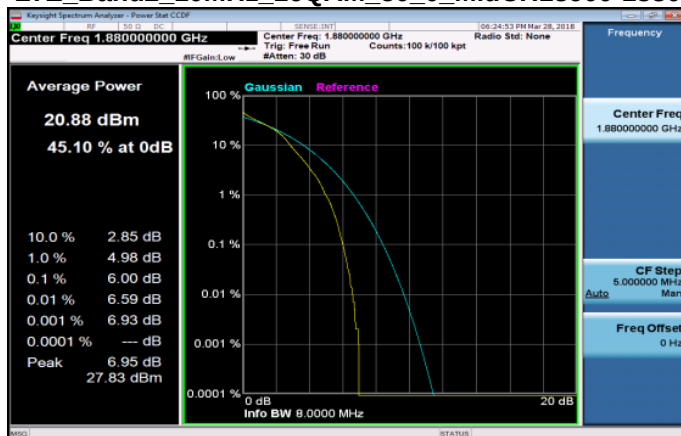
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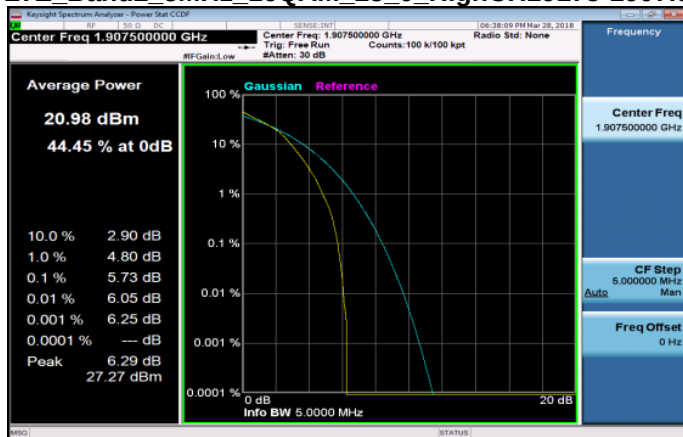
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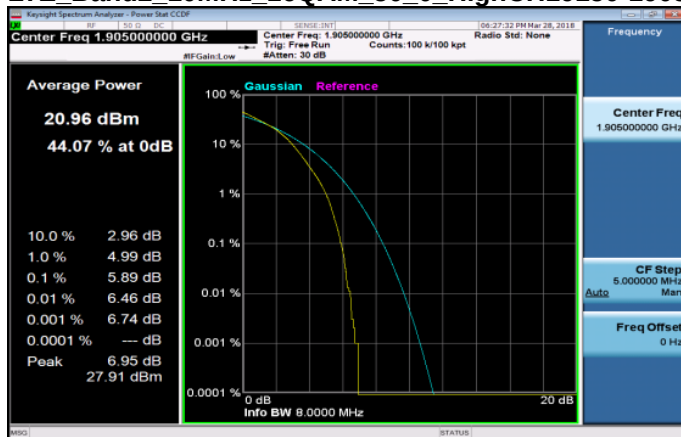
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LTE Band2 5MHz 16QAM 25 0 HighCH19175-1907.5



LTE Band2 10MHz 16QAM 50 0 HighCH19150-1905



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