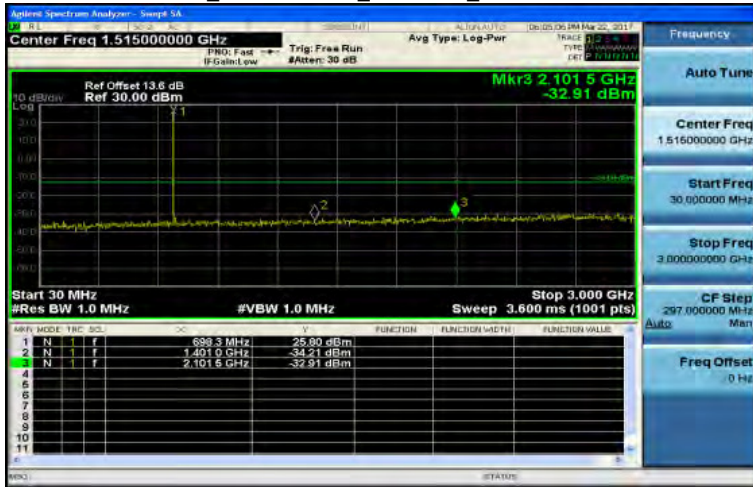
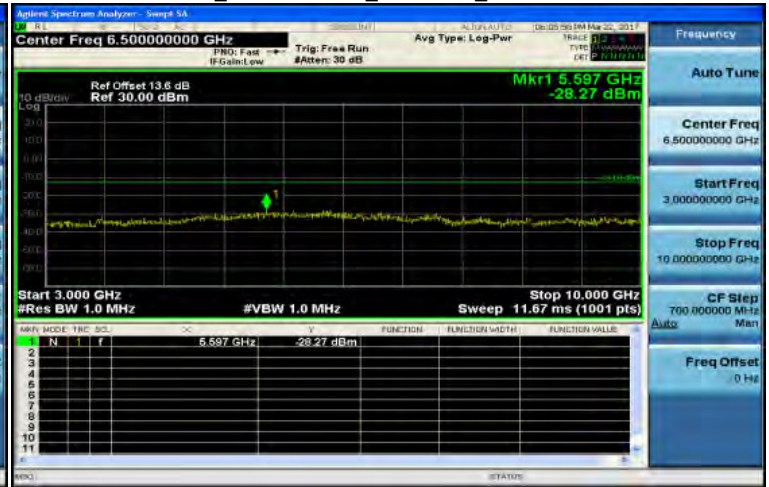


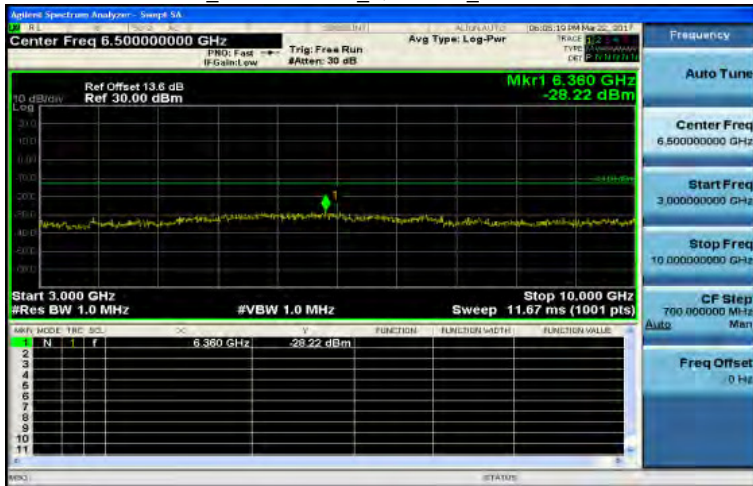
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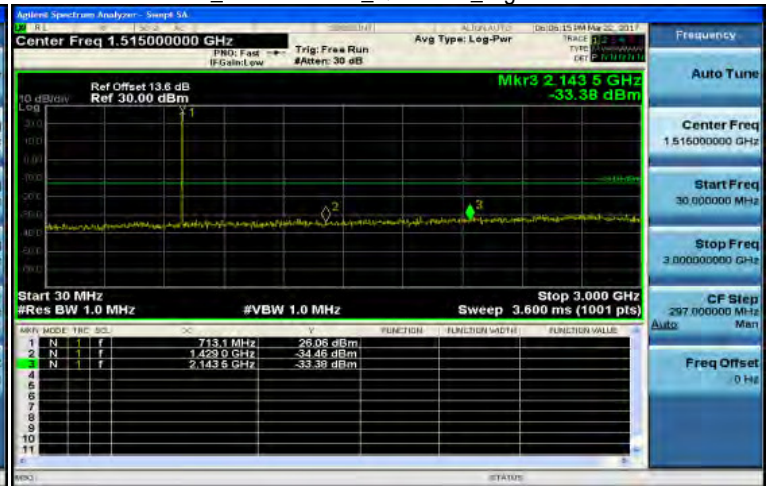
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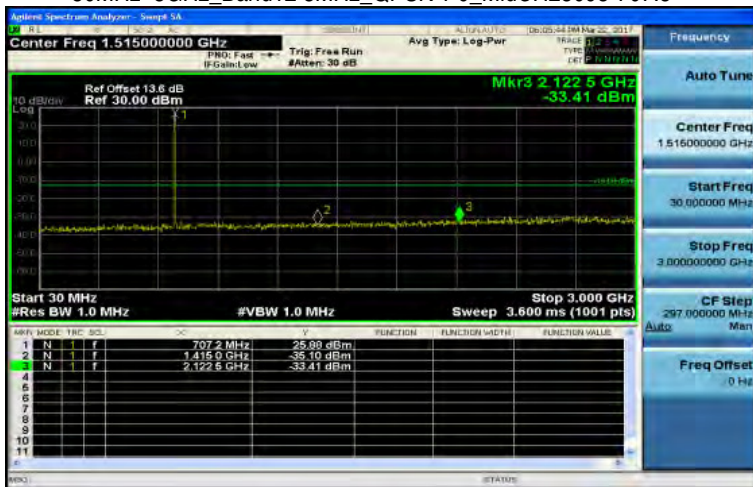
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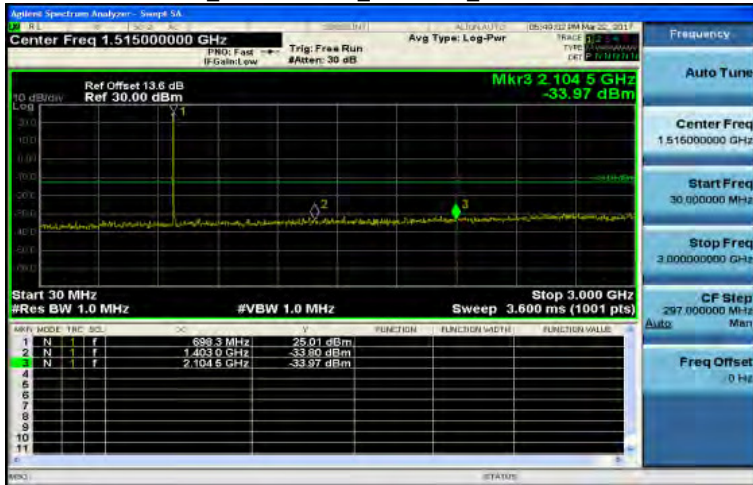


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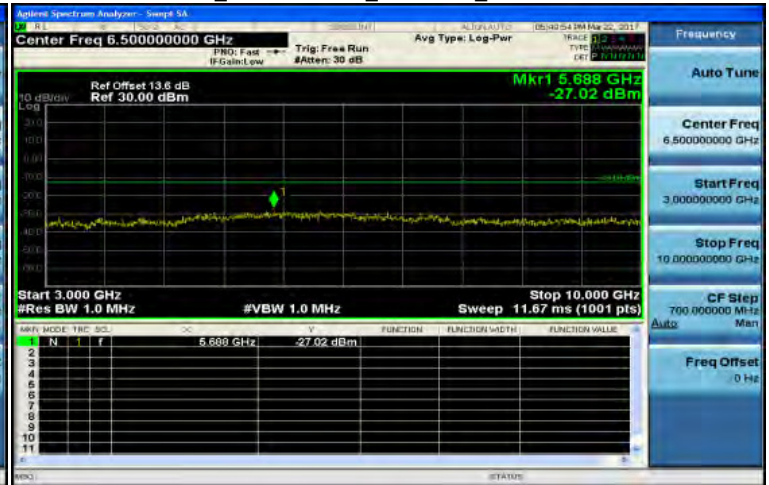
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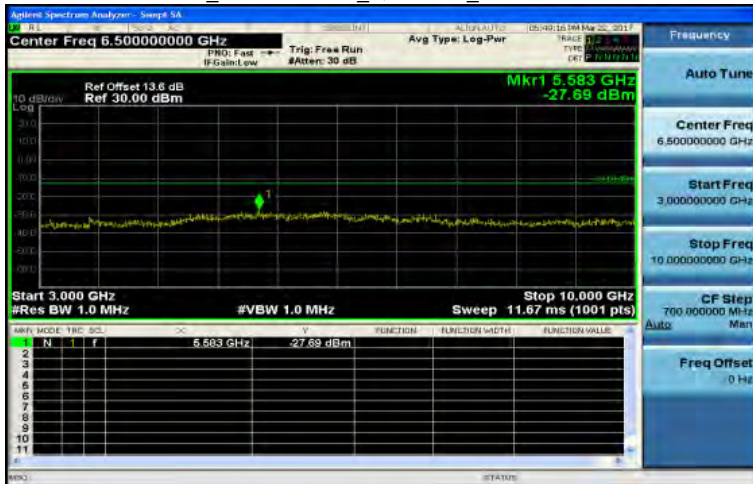
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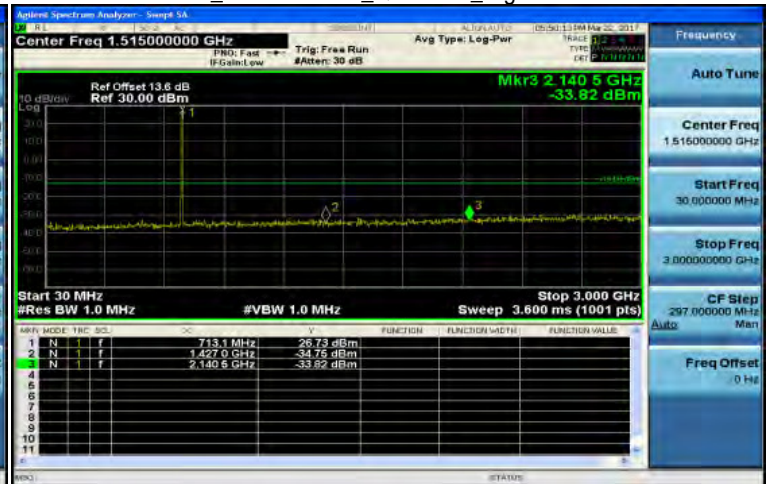
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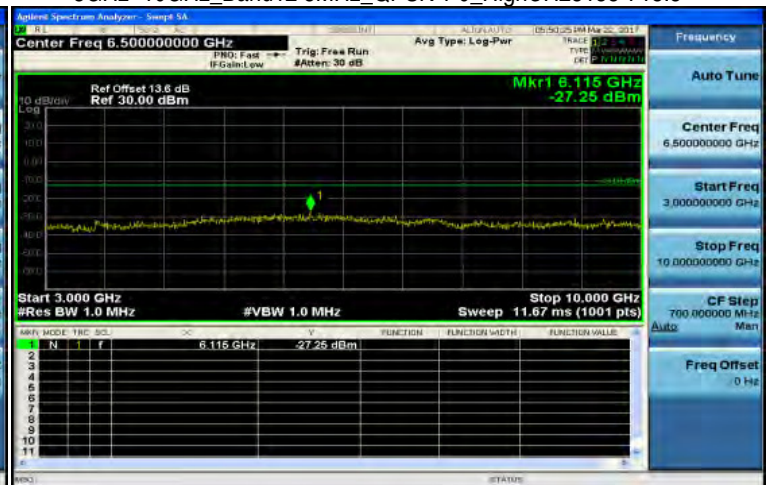
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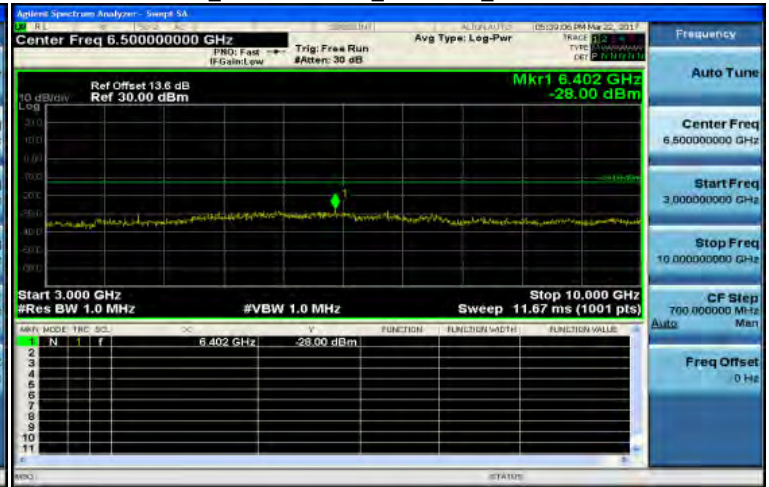
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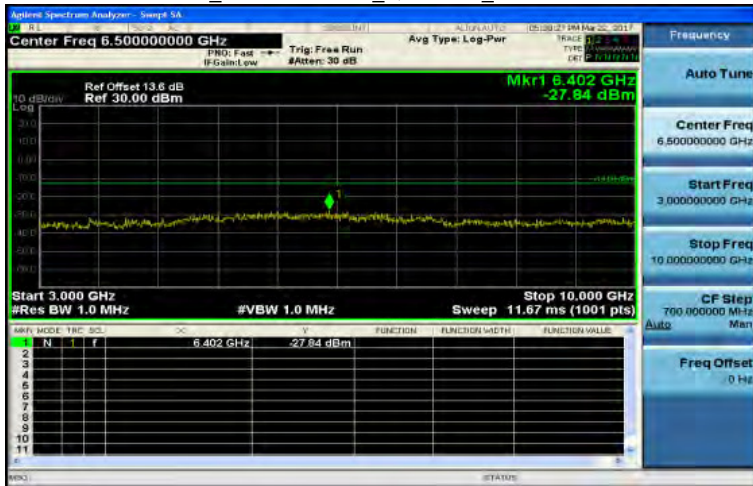
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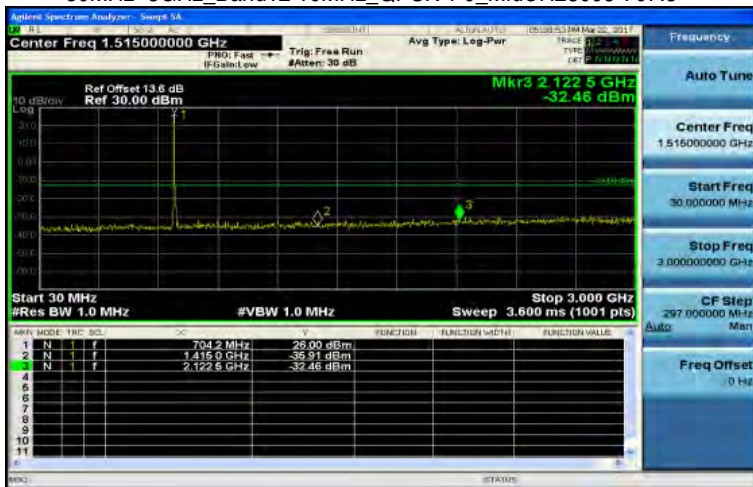
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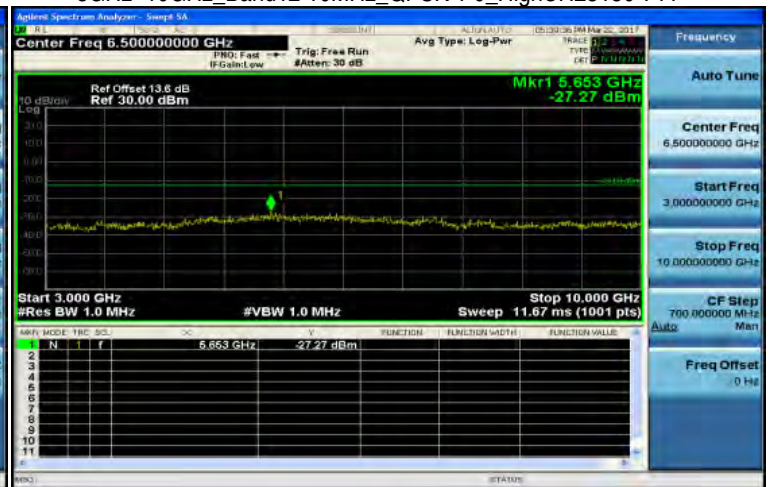
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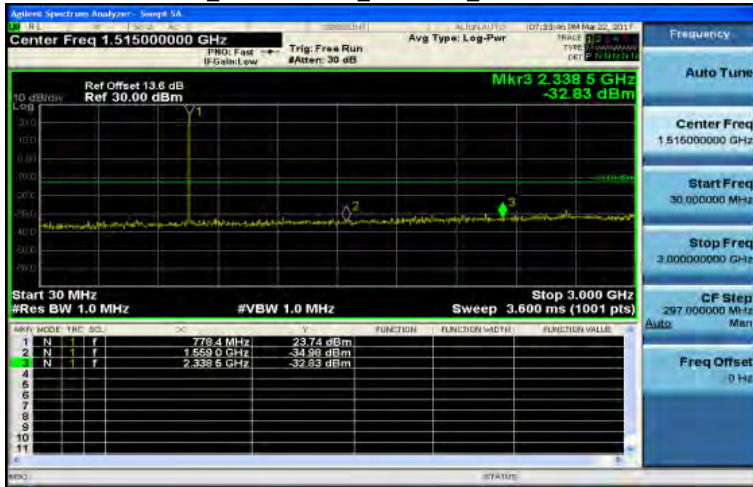


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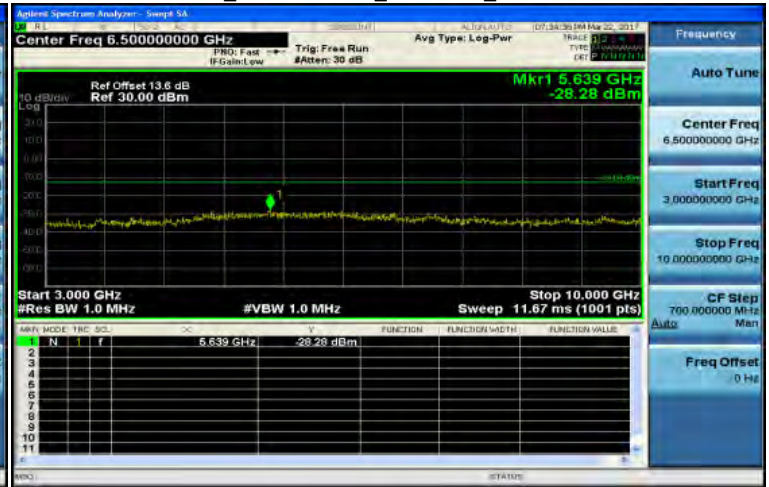
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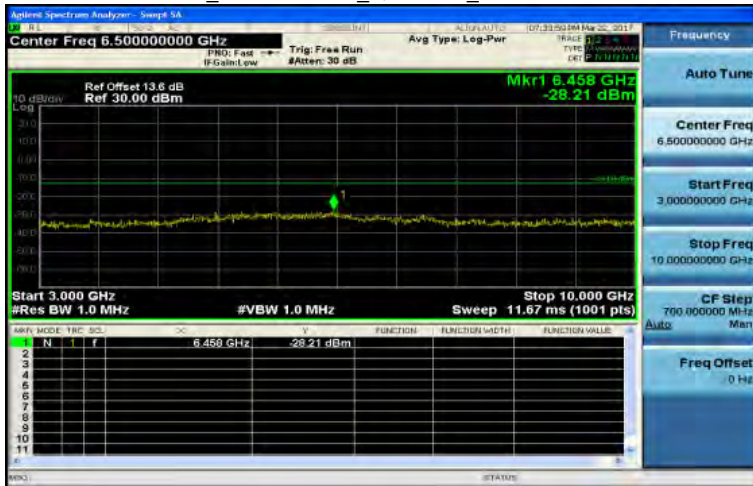
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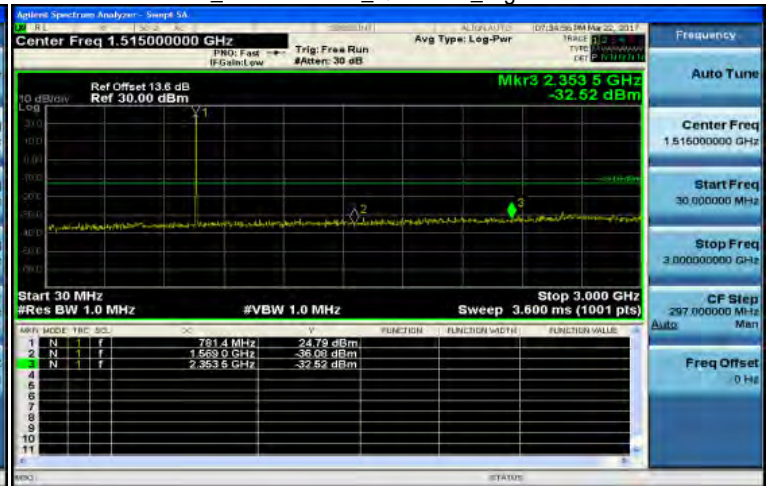
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3GHz~10GHz\_Band13 5MHz\_QPSK 1 0\_LowCH23205-779.5



30MHz~3GHz\_Band13 5MHz\_QPSK 1 0\_HighCH23255-784.5



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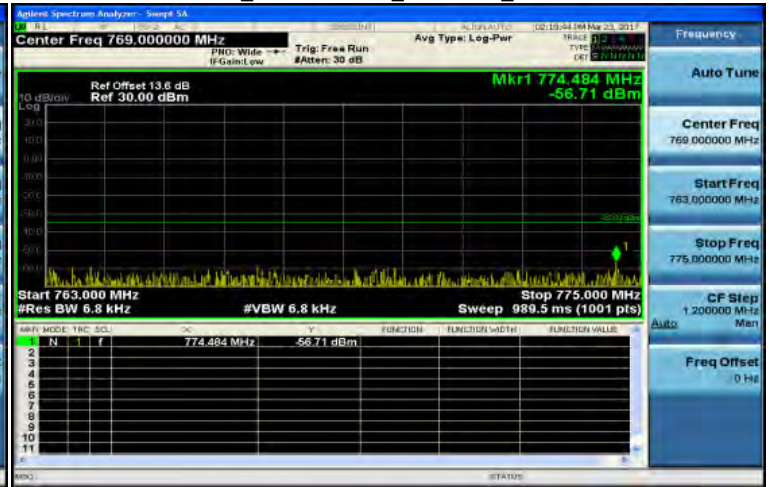
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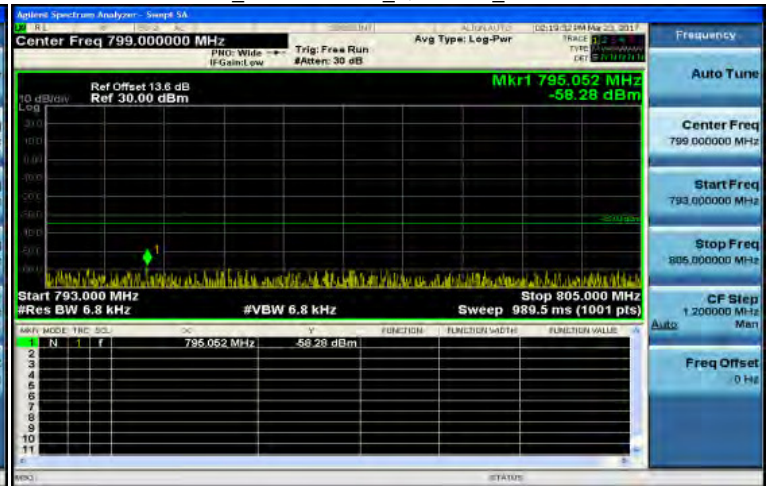
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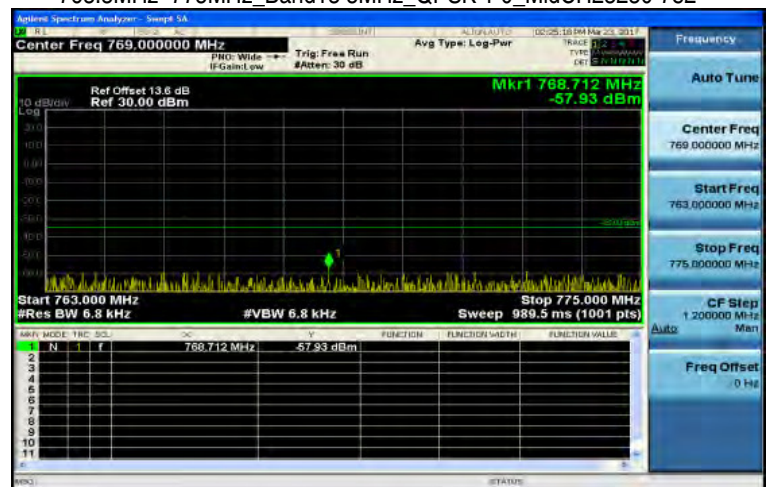
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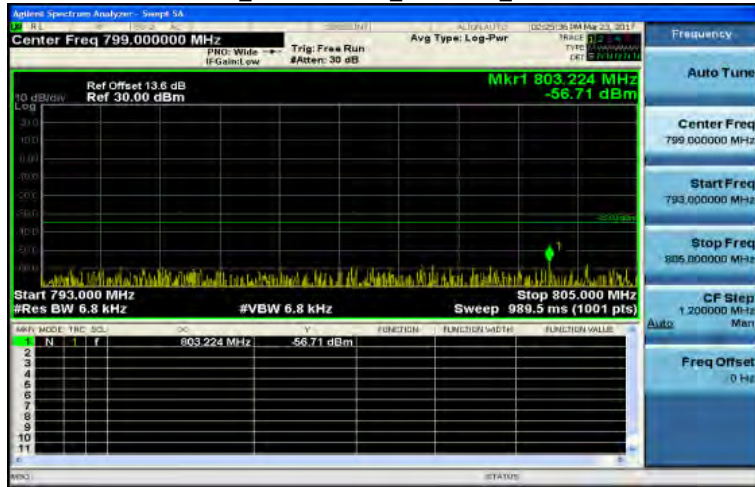


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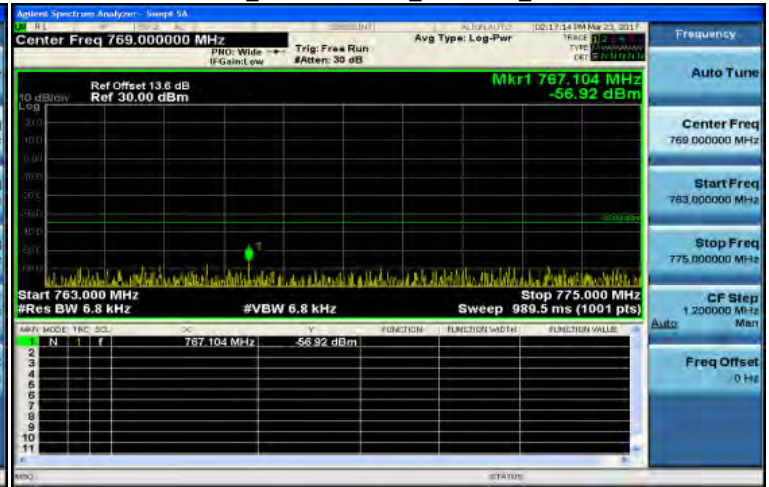
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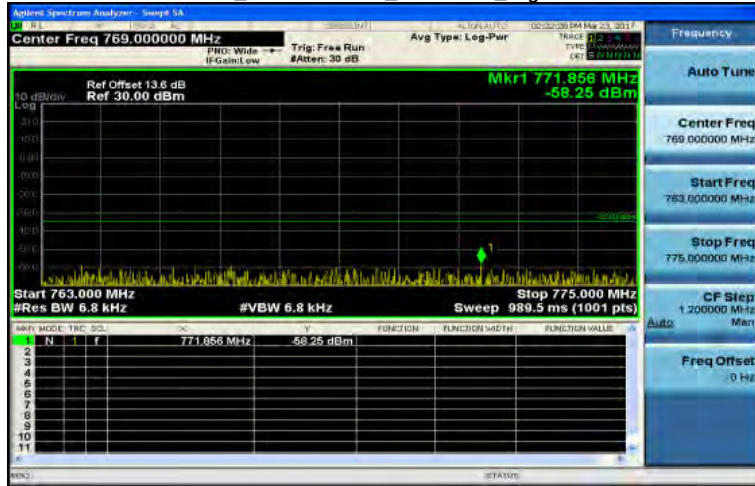
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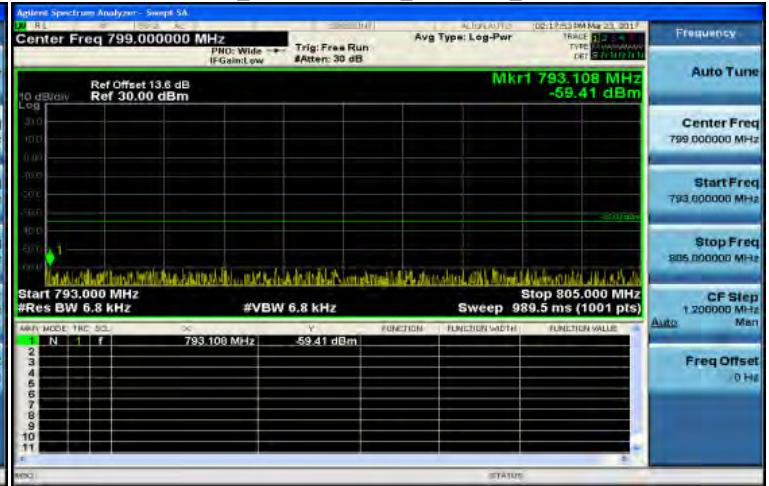
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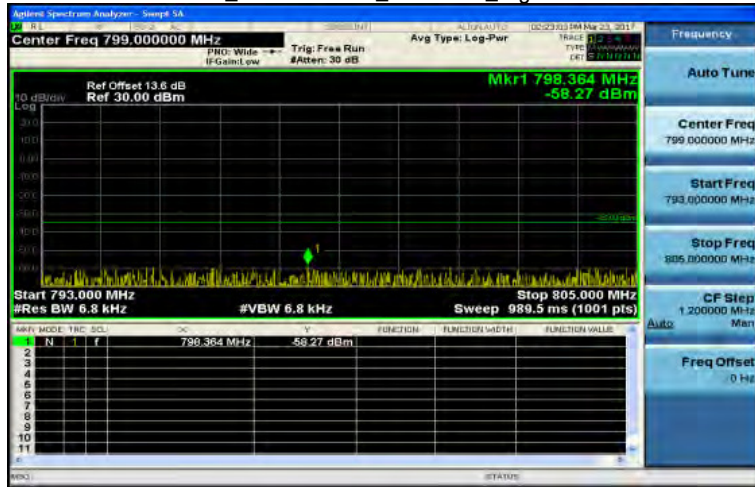
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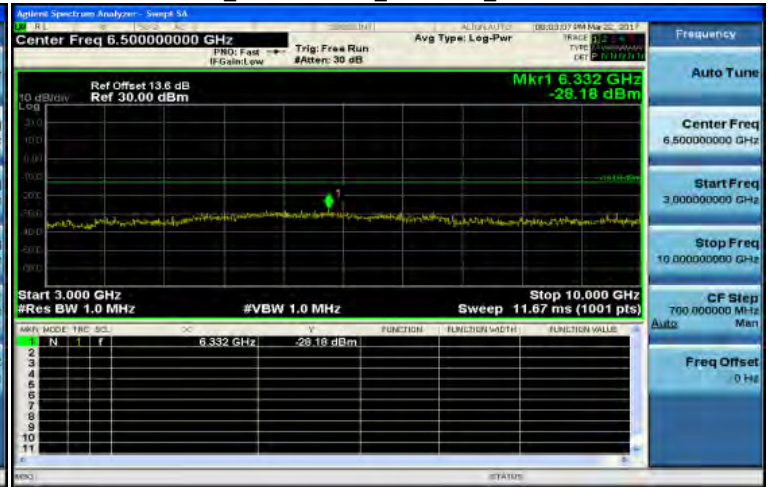
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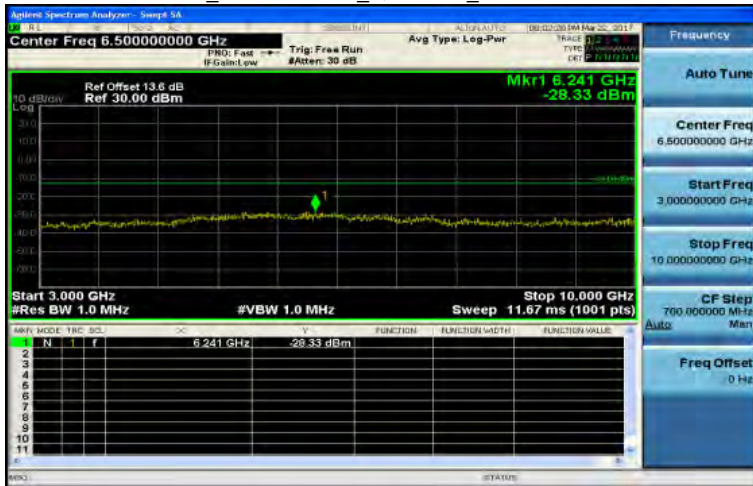
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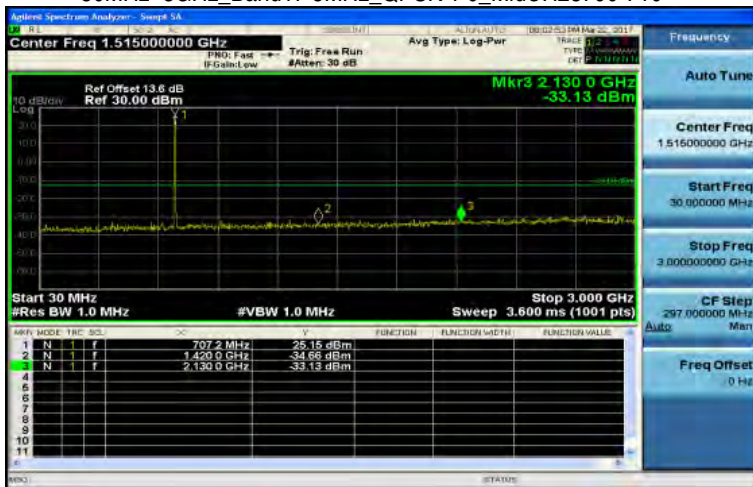
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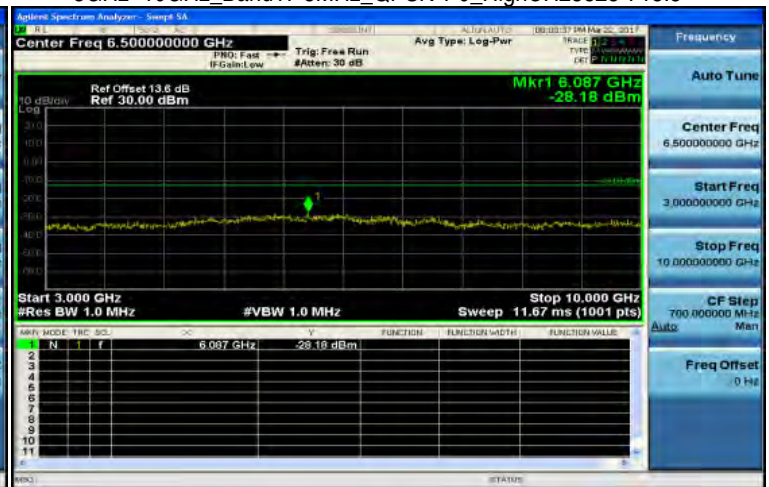
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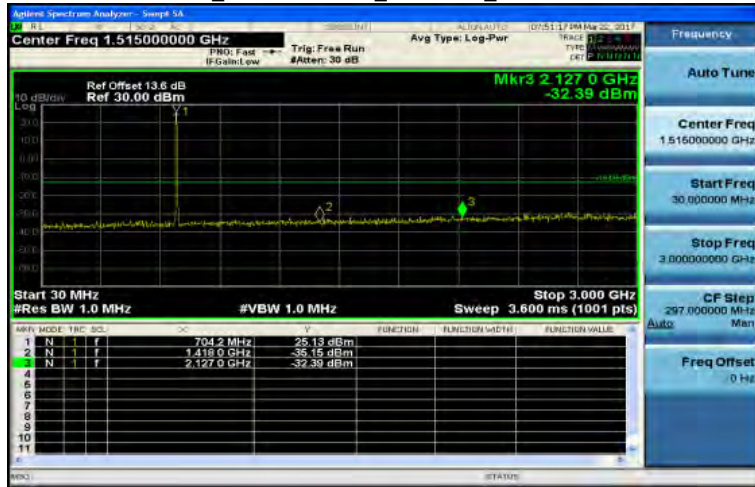
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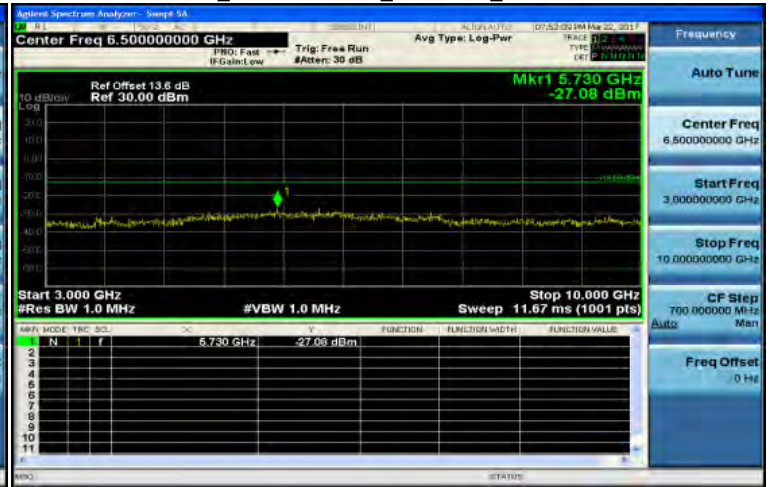
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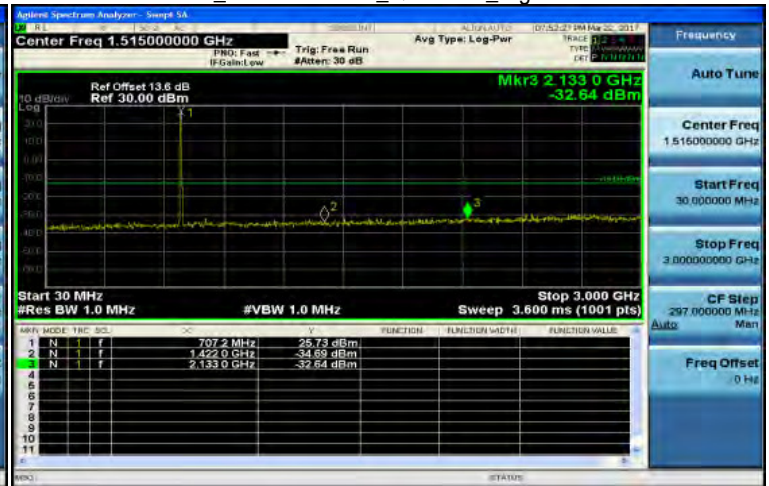
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30MHz~3GHz\_Band17 10MHz\_QPSK 1\_0\_MidCH23790-710



3GHz~10GHz\_Band17 10MHz\_QPSK 1\_0\_HighCH23800-711



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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(g)(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).

FCC §27.53 (m) (4) shall not be less than  $55 + 10 \log$ (mean output power in watt) dBc below the mean power output outside a license's frequency block (-25dBm).

§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.

**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	$43 + 10 \log_{10}(p)$ <sup>Note</sup>
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	$43 + 10 \log_{10}(p)$ <sup>Note</sup>
2360 - 2365	$43 + 10 \log_{10}(p)$
2365 - 2395	$70 + 10 \log_{10}(p)$
>2395	$43 + 10 \log_{10}(p)$

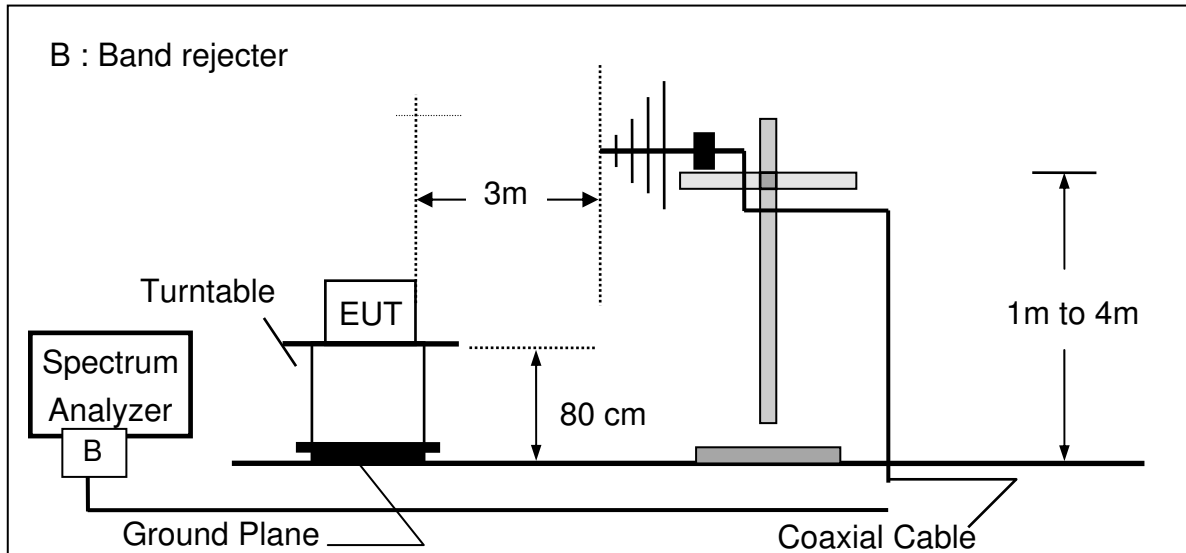
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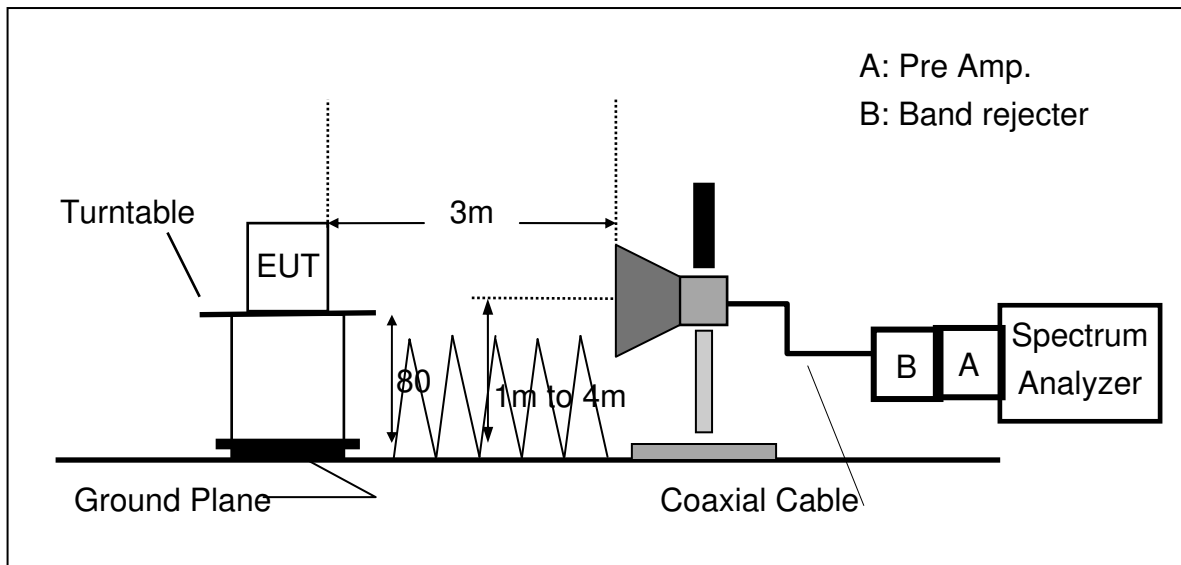
**Note:** Measured at the edges of the highest and lowest frequency range(s) in which the equipment is designed to operate. See Section 5.2 for the permitted frequency ranges for various equipment types.

## 10.2. EUT Setup

### Radiated Emission Test Set-Up, Frequency Below 1000MHz



### Radiated Emission Test Set-UP Frequency Over 1 GHz



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### 10.3. Measurement Procedure:

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

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

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

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

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

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

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#### 10.4. Measurement Equipment Used:

ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCI7	100760	05/10/2016	05/09/2017
Spectrum Analyzer	Agilent	E4446A	MY51100003	04/21/2016	04/20/2017
Loop Antenna	ETS-Lindgren	6502	148045	09/20/2016	09/19/2017
Bilog Antenna	SCHWAZBECK	VULB9168	378	12/19/2016	12/18/2017
Horn Antenna	Schwarzbeck	BBHA9120D	1441	08/01/2016	07/31/2017
Pre-Amplifier	Agilent	8447D	2944A07676	01/05/2017	01/04/2018
Pre-Amplifier	EMC Instruments Corp.	EMC0126530	980038	01/05/2017	01/04/2018
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	ChamPro	AM-BS-4500-B	060776-ABS	N.C.R	N.C.R
Controller	ChamPro	EM1000	60776	N.C.R	N.C.R
Low Loss Cable	Huber Suhner	966_RX	9	01/05/2017	01/04/2018
3m Site NSA	SGS	966 chamber	N/A	07/01/2016	06/30/2017
Low Loss Cable	Huber Suhner	966 TX	1	01/05/2017	01/04/2018
Horn Antenna	Schwarzbeck	BBHA9170	184	12/12/2016	12/11/2017
Pre-Amplifier	EMC Instruments Corp.	EMC184045	980135	01/05/2017	01/04/2018
Radio Communication Analyzer	R&S	CMU200	102189	02/11/2017	02/10/2018
Radio Communication Analyer	Anritsu	MT8820C	6201465317	01/03/2017	01/02/2018

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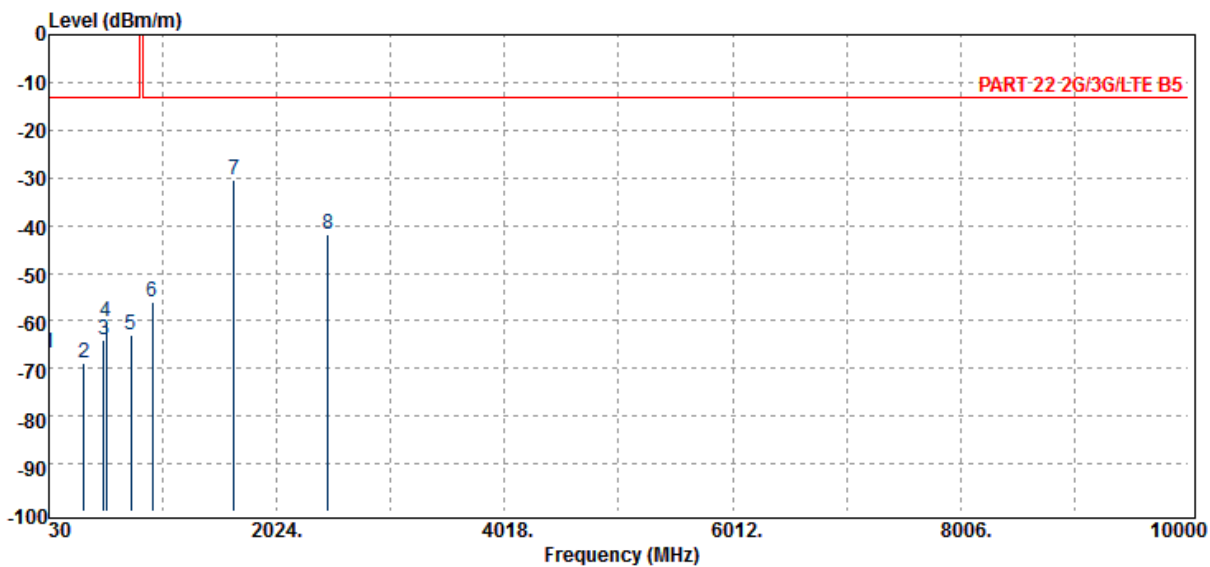
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### 10.5. Measurement Result:

#### Radiated Spurious Emission Measurement Result: GPRS 850 Mode

Operation Band :GPRS 850 Temp./Humi. :24 deg\_C / 61 RH  
 Fundamental Frequency :824.2 MHz Engineer :Tin  
 Operation Mode :Tx CH LOW  
 EUT Pol. :E2 Plane Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
32.91	S	-66.70	-51.64	-14.09	-0.97	-13.00	-53.70
335.55	S	-69.02	-70.88	3.80	-1.93	-13.00	-56.02
510.15	S	-64.04	-65.50	3.80	-2.34	-13.00	-51.04
532.46	S	-60.14	-61.30	3.68	-2.52	-13.00	-47.14
750.71	S	-63.03	-63.14	3.18	-3.07	-13.00	-50.03
934.04	S	-55.91	-55.79	3.11	-3.23	-13.00	-42.91
1648.40	H	-30.57	-33.46	7.11	-4.22	-13.00	-17.57
2472.60	H	-41.72	-45.23	8.73	-5.22	-13.00	-28.72

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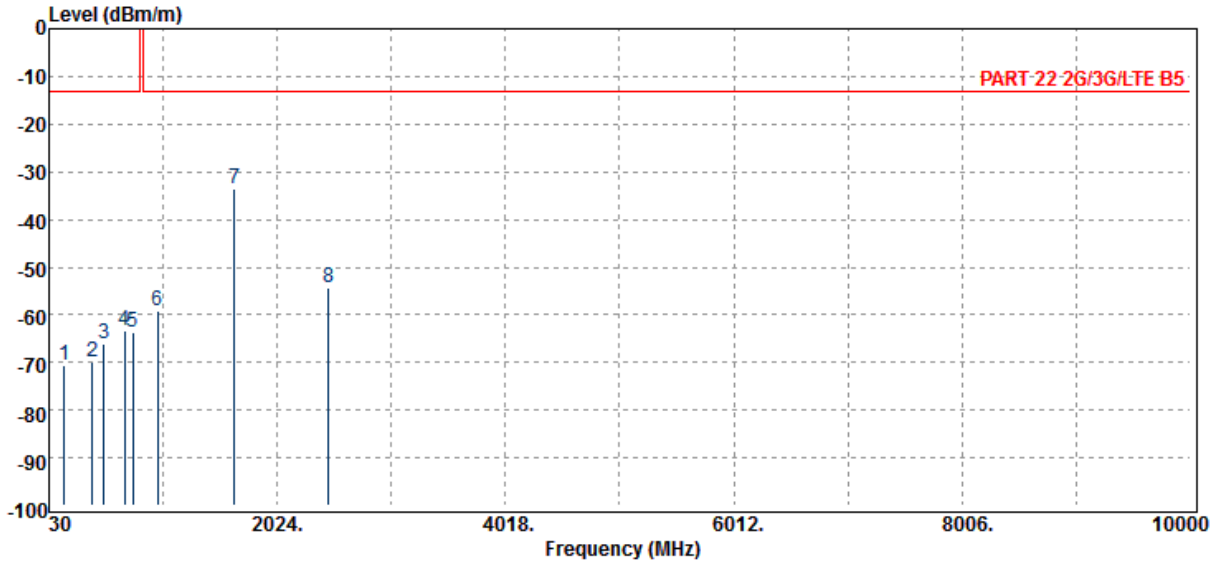
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Operation Band	:GPRS 850	Temp./Humi.	:24 deg_C / 61 RH
Fundamental Frequency	:824.2 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
162.89	S	-70.76	-67.85	-1.42	-1.49	-13.00	-57.76
406.36	S	-69.99	-71.38	3.80	-2.42	-13.00	-56.99
508.21	S	-66.08	-67.55	3.81	-2.34	-13.00	-53.08
689.60	S	-63.46	-63.76	3.09	-2.79	-13.00	-50.46
765.26	S	-63.56	-63.81	3.23	-2.98	-13.00	-50.56
978.66	S	-59.08	-59.51	3.62	-3.19	-13.00	-46.08
1648.40	H	-33.40	-36.29	7.11	-4.22	-13.00	-20.40
2472.60	H	-54.37	-57.88	8.73	-5.22	-13.00	-41.37

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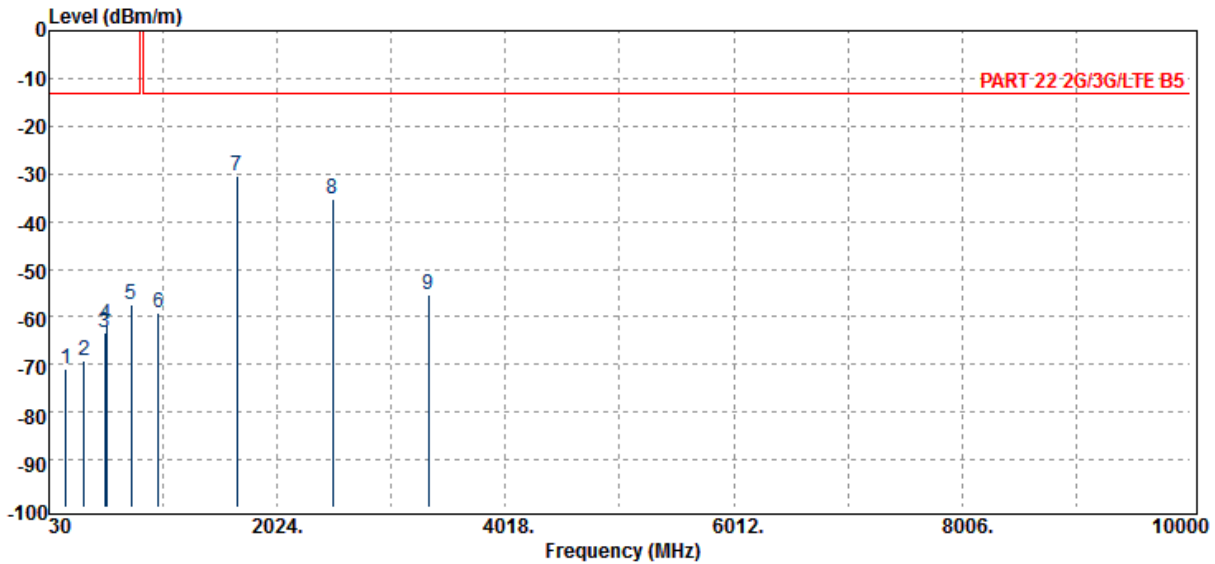
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Operation Band	:GPRS 850	Temp./Humi.	:24 deg_C / 61 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:E2 Plane		



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
180.35	S	-70.77	-70.16	0.95	-1.56	-13.00	-57.77
335.55	S	-69.16	-71.02	3.80	-1.93	-13.00	-56.16
515.97	S	-63.20	-64.60	3.77	-2.36	-13.00	-50.20
531.49	S	-61.46	-62.63	3.69	-2.51	-13.00	-48.46
747.80	S	-57.58	-57.67	3.18	-3.09	-13.00	-44.58
987.39	S	-59.28	-59.85	3.80	-3.23	-13.00	-46.28
1673.20	H	-30.34	-33.24	7.20	-4.29	-13.00	-17.34
2509.80	H	-35.29	-38.79	8.76	-5.26	-13.00	-22.29
3346.40	H	-55.52	-59.25	9.99	-6.26	-13.00	-42.52

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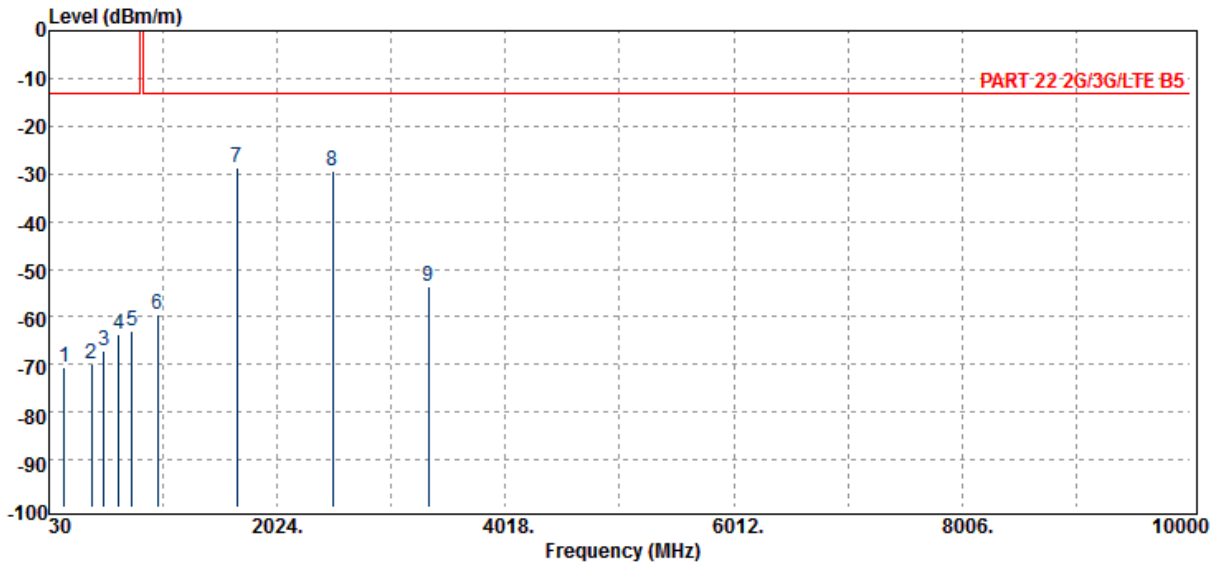
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Fundamental Frequency	:836.6 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:E2 Plane		



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
162.89	S	-70.56	-67.64	-1.42	-1.49	-13.00	-57.56
400.54	S	-69.73	-71.17	3.82	-2.38	-13.00	-56.73
507.24	S	-67.17	-68.66	3.82	-2.33	-13.00	-54.17
638.19	S	-63.81	-64.53	3.16	-2.44	-13.00	-50.81
751.68	S	-63.06	-63.19	3.19	-3.07	-13.00	-50.06
978.66	S	-59.43	-59.86	3.62	-3.19	-13.00	-46.43
1673.20	H	-28.77	-31.68	7.20	-4.29	-13.00	-15.77
2509.80	H	-29.52	-33.02	8.76	-5.26	-13.00	-16.52
3346.40	H	-53.78	-57.50	9.99	-6.26	-13.00	-40.78

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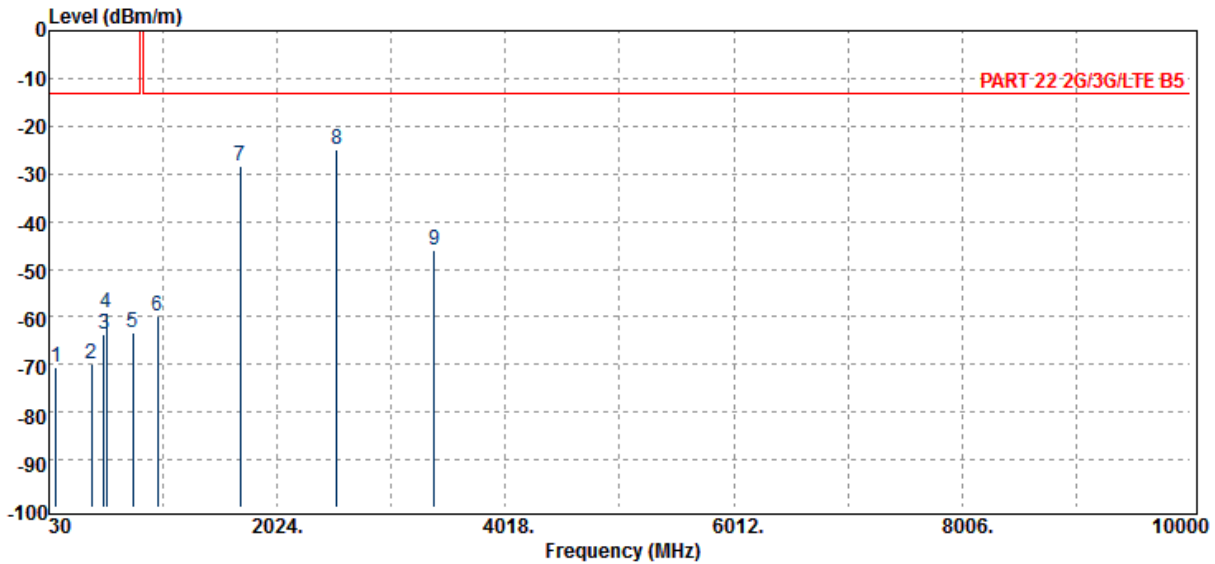
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Operation Band	:GPRS 850	Temp./Humi.	:24 deg_C / 61 RH
Fundamental Frequency	:848.8 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



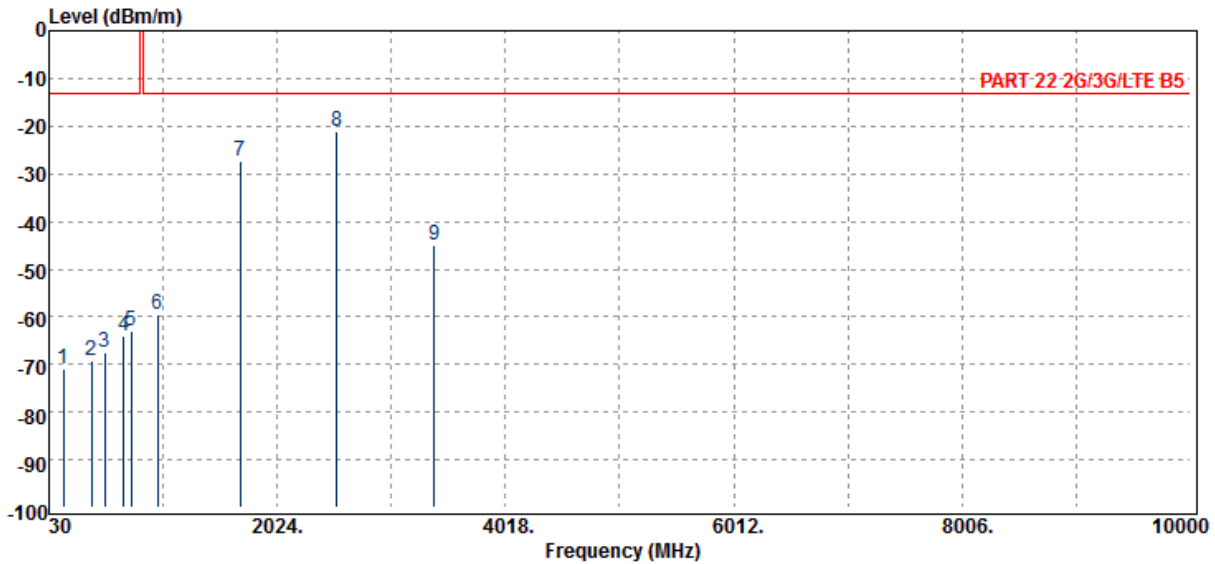
Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
93.05	S	-70.65	-68.62	-0.81	-1.22	-13.00	-57.65
398.60	S	-69.86	-71.31	3.82	-2.37	-13.00	-56.86
513.06	S	-63.75	-65.18	3.79	-2.35	-13.00	-50.75
532.46	S	-59.24	-60.40	3.68	-2.52	-13.00	-46.24
764.29	S	-63.24	-63.48	3.23	-2.99	-13.00	-50.24
977.69	S	-59.91	-60.32	3.60	-3.19	-13.00	-46.91
1697.60	H	-28.46	-31.44	7.28	-4.31	-13.00	-15.46
2546.40	H	-24.92	-28.40	8.81	-5.33	-13.00	-11.92
3395.20	H	-46.03	-49.85	10.07	-6.26	-13.00	-33.03

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Fundamental Frequency	:848.8 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
156.10	S	-71.07	-67.80	-1.81	-1.46	-13.00	-58.07
401.51	S	-69.29	-70.72	3.82	-2.39	-13.00	-56.29
515.00	S	-67.40	-68.82	3.77	-2.36	-13.00	-54.40
684.75	S	-64.08	-64.47	3.10	-2.70	-13.00	-51.08
744.89	S	-63.11	-63.17	3.17	-3.11	-13.00	-50.11
975.75	S	-59.37	-59.75	3.56	-3.18	-13.00	-46.37
1697.60	H	-27.38	-30.35	7.28	-4.31	-13.00	-14.38
2546.40	H	-20.94	-24.42	8.81	-5.33	-13.00	-7.94
3395.20	H	-44.82	-48.63	10.07	-6.26	-13.00	-31.82

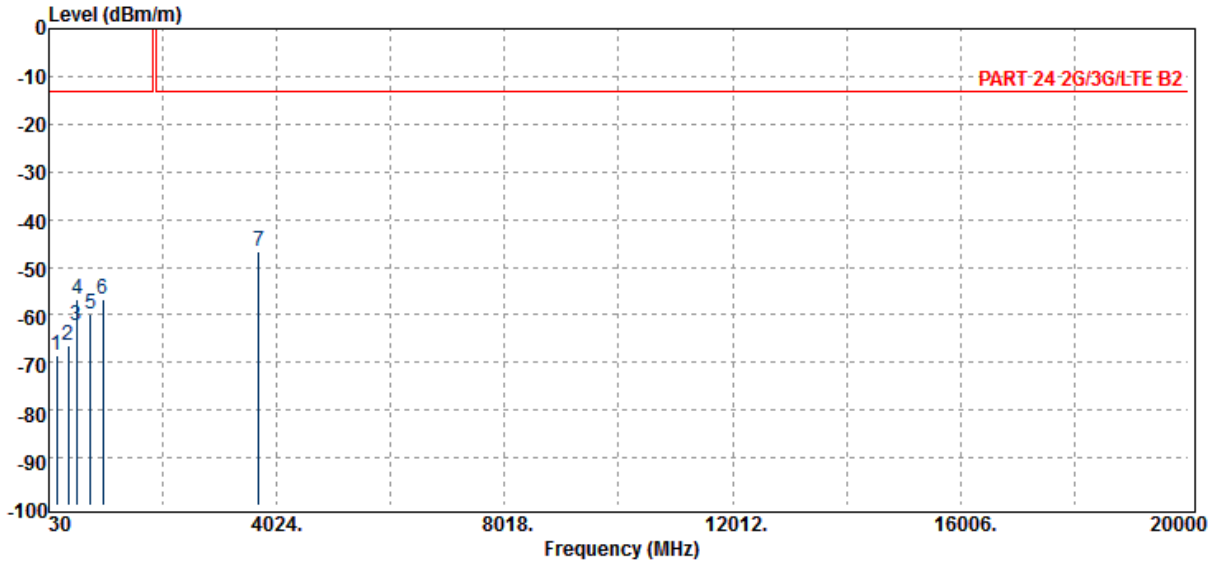
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### Radiated Spurious Emission Measurement Result: GPRS 1900 Mode

Operation Band	:GPRS 1900	Temp./Humi.	:22 deg_C / 62 RH
Fundamental Frequency	:1850.2 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
160.95	S	-68.64	-67.75	0.58	-1.48	-13.00	-55.64
366.59	S	-66.47	-70.29	6.00	-2.17	-13.00	-53.47
515.97	S	-62.19	-65.74	5.92	-2.36	-13.00	-49.19
532.46	S	-56.76	-60.07	5.83	-2.52	-13.00	-43.76
755.56	S	-60.02	-62.32	5.35	-3.04	-13.00	-47.02
977.69	S	-56.81	-59.37	5.75	-3.19	-13.00	-43.81
3700.40	H	-46.81	-52.67	12.44	-6.58	-13.00	-33.81

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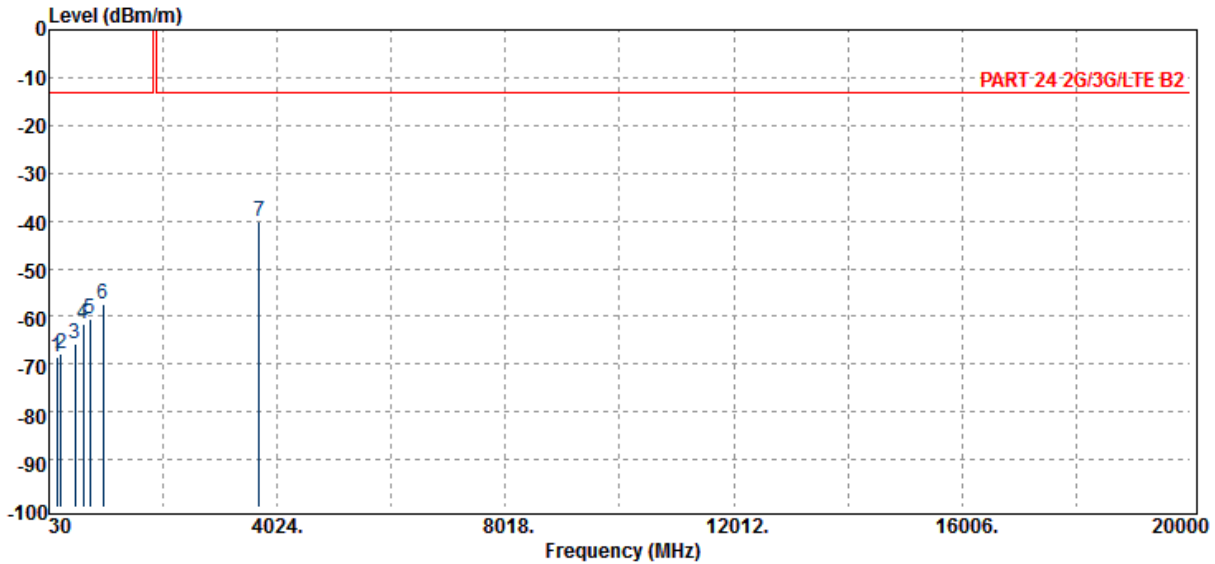
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f (886-2) 2298-0488

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Operation Band	:GPRS 1900	Temp./Humi.	:22 deg_C / 62 RH
Fundamental Frequency	:1850.2 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
173.56	S	-68.52	-68.88	1.89	-1.53	-13.00	-55.52
246.31	S	-67.80	-71.58	5.53	-1.75	-13.00	-54.80
478.14	S	-65.58	-69.26	5.92	-2.24	-13.00	-52.58
629.46	S	-61.42	-64.28	5.33	-2.47	-13.00	-48.42
749.74	S	-60.55	-62.80	5.33	-3.08	-13.00	-47.55
978.66	S	-57.29	-59.87	5.77	-3.19	-13.00	-44.29
3700.40	H	-40.12	-45.98	12.44	-6.58	-13.00	-27.12

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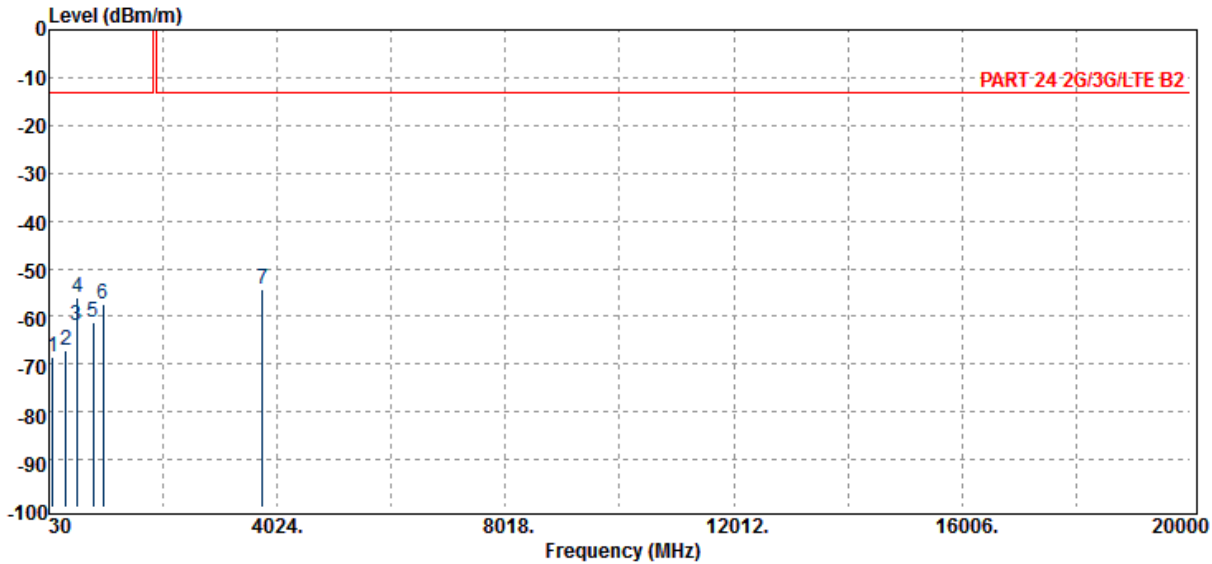
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f (886-2) 2298-0488

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Operation Band	:GPRS 1900	Temp./Humi.	:22 deg_C / 62 RH
Fundamental Frequency	:1880 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
91.11	S	-68.45	-68.82	1.58	-1.21	-13.00	-55.45
330.70	S	-67.21	-71.22	5.92	-1.91	-13.00	-54.21
507.24	S	-61.98	-65.62	5.97	-2.33	-13.00	-48.98
531.49	S	-56.10	-59.42	5.84	-2.51	-13.00	-43.10
798.24	S	-61.28	-63.86	5.49	-2.90	-13.00	-48.28
977.69	S	-57.53	-60.10	5.75	-3.19	-13.00	-44.53
3760.00	H	-54.32	-60.18	12.45	-6.60	-13.00	-41.32

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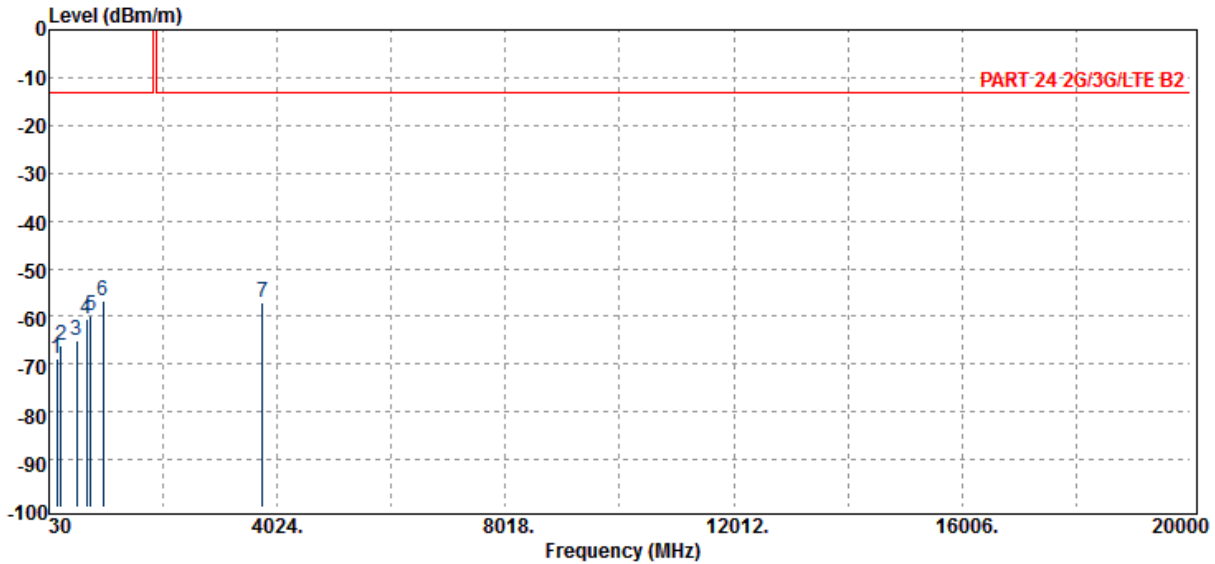
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Operation Band	:GPRS 1900	Temp./Humi.	:22 deg_C / 62 RH
Fundamental Frequency	:1880 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
172.59	S	-68.98	-69.16	1.71	-1.53	-13.00	-55.98
236.61	S	-66.19	-69.83	5.38	-1.73	-13.00	-53.19
513.06	S	-65.03	-68.61	5.94	-2.35	-13.00	-52.03
691.54	S	-60.67	-63.08	5.24	-2.83	-13.00	-47.67
757.50	S	-59.86	-62.19	5.36	-3.03	-13.00	-46.86
972.84	S	-56.70	-59.18	5.65	-3.17	-13.00	-43.70
3760.00	H	-57.22	-63.08	12.45	-6.60	-13.00	-44.22

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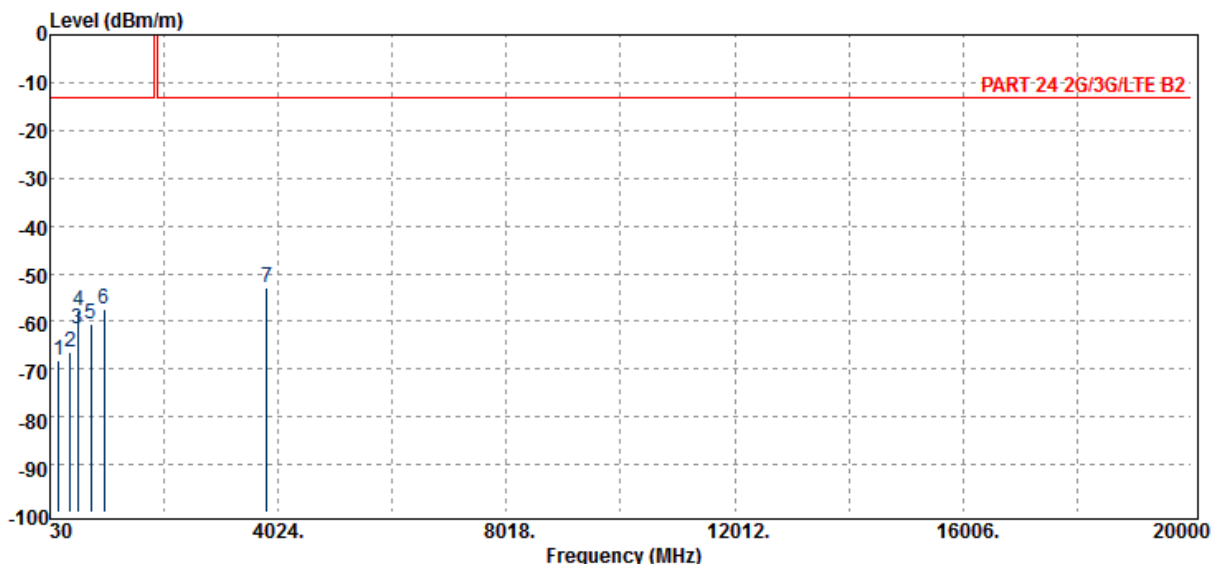
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Operation Band	:GPRS 1900	Temp./Humi.	:22 deg_C / 62 RH
Fundamental Frequency	:1909.8 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
180.35	S	-68.07	-69.61	3.10	-1.56	-13.00	-55.07
379.20	S	-66.38	-70.11	5.99	-2.26	-13.00	-53.38
515.97	S	-61.58	-65.13	5.92	-2.36	-13.00	-48.58
534.40	S	-57.92	-61.20	5.82	-2.54	-13.00	-44.92
750.71	S	-60.45	-62.71	5.33	-3.07	-13.00	-47.45
975.75	S	-57.32	-59.85	5.71	-3.18	-13.00	-44.32
3819.60	H	-53.10	-58.92	12.47	-6.65	-13.00	-40.10

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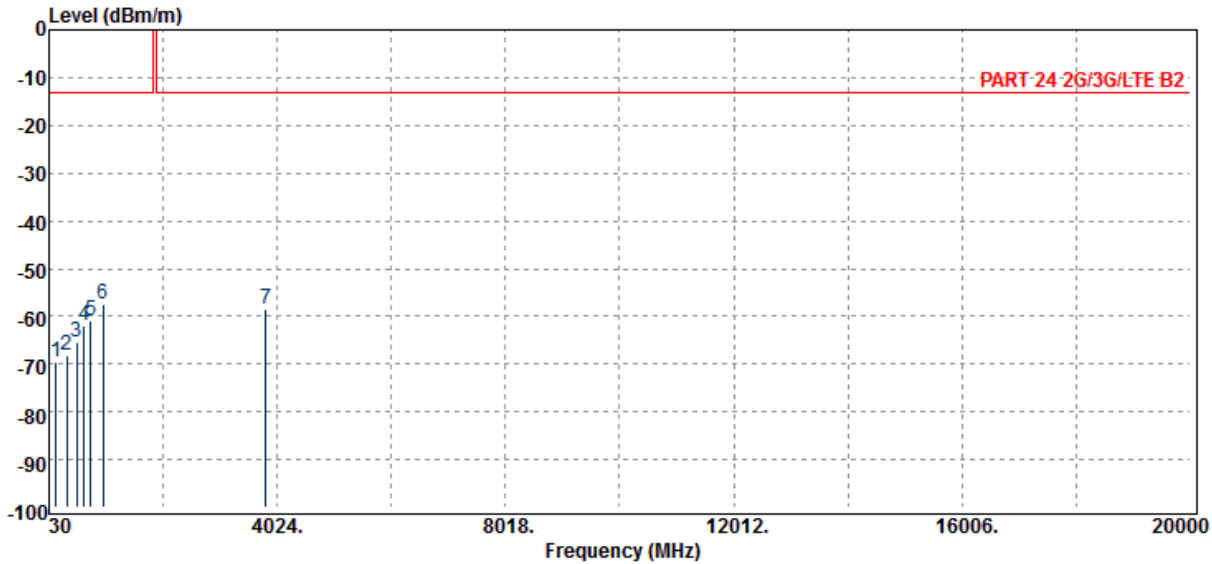
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Operation Band	:GPRS 1900	Temp./Humi.	:22 deg_C / 62 RH
Fundamental Frequency	:1909.8 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
159.98	S	-69.59	-68.63	0.51	-1.48	-13.00	-56.59
343.31	S	-68.04	-72.03	5.98	-1.99	-13.00	-55.04
513.06	S	-65.43	-69.01	5.94	-2.35	-13.00	-52.43
639.16	S	-61.84	-64.71	5.31	-2.44	-13.00	-48.84
752.65	S	-60.77	-63.05	5.34	-3.06	-13.00	-47.77
970.90	S	-57.47	-59.92	5.62	-3.16	-13.00	-44.47
3819.60	H	-58.37	-64.19	12.47	-6.65	-13.00	-45.37

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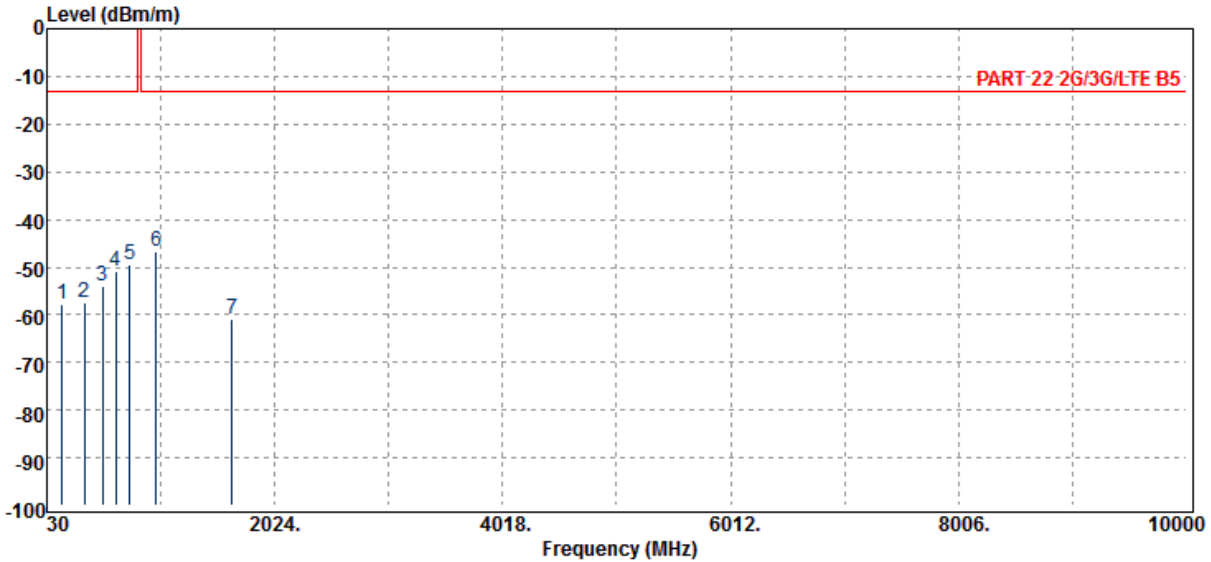
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### Radiated Spurious Emission Measurement Result: CDMA (BC0) Mode

Operation Band	:CDMA 850	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:824.7 MHz	Engineer	:Mike
Operation Mode	:Tx CH LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
160.95	S	-57.95	-57.05	0.58	-1.48	-13.00	-44.95
359.80	S	-57.50	-61.38	6.00	-2.12	-13.00	-44.50
515.97	S	-53.83	-57.39	5.92	-2.36	-13.00	-40.83
629.46	S	-50.71	-53.57	5.33	-2.47	-13.00	-37.71
752.65	S	-49.59	-51.87	5.34	-3.06	-13.00	-36.59
983.51	S	-46.71	-49.37	5.87	-3.21	-13.00	-33.71
1649.40	H	-60.87	-63.75	7.11	-4.23	-13.00	-47.87

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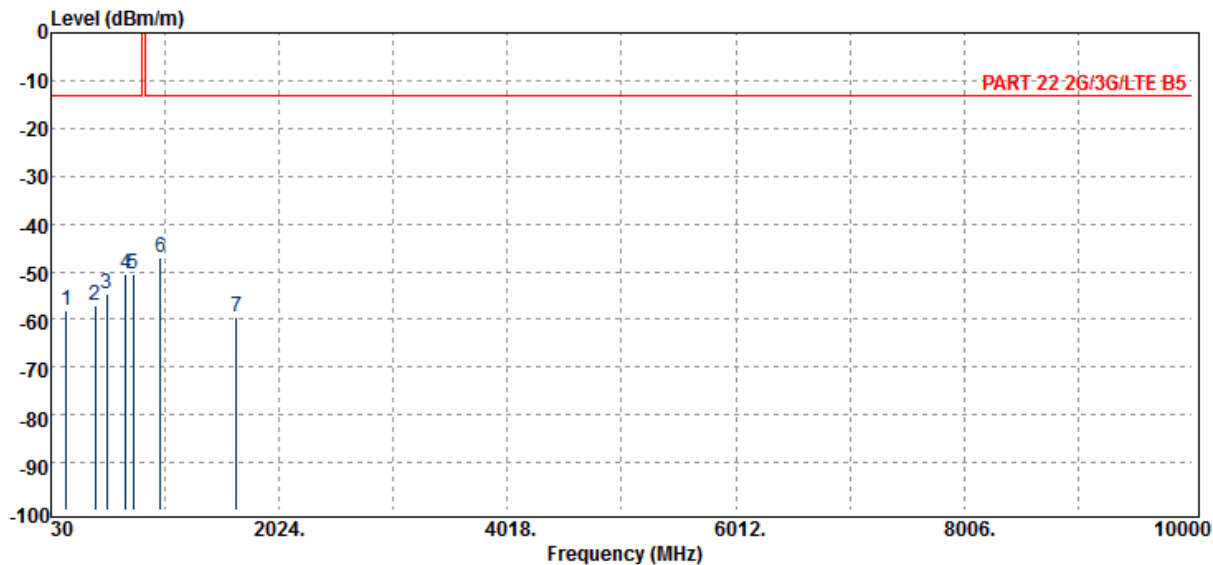
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Operation Band	:CDMA 850	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:824.7 MHz	Engineer	:Mike
Operation Mode	:Tx CH LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
160.95	S	-58.08	-57.19	0.58	-1.48	-13.00	-45.08
413.15	S	-57.18	-60.72	5.92	-2.38	-13.00	-44.18
515.00	S	-54.64	-58.20	5.92	-2.36	-13.00	-41.64
684.75	S	-50.58	-53.12	5.25	-2.70	-13.00	-37.58
749.74	S	-50.47	-52.72	5.33	-3.08	-13.00	-37.47
982.54	S	-47.10	-49.74	5.85	-3.21	-13.00	-34.10
1649.40	H	-59.36	-62.25	7.11	-4.23	-13.00	-46.36

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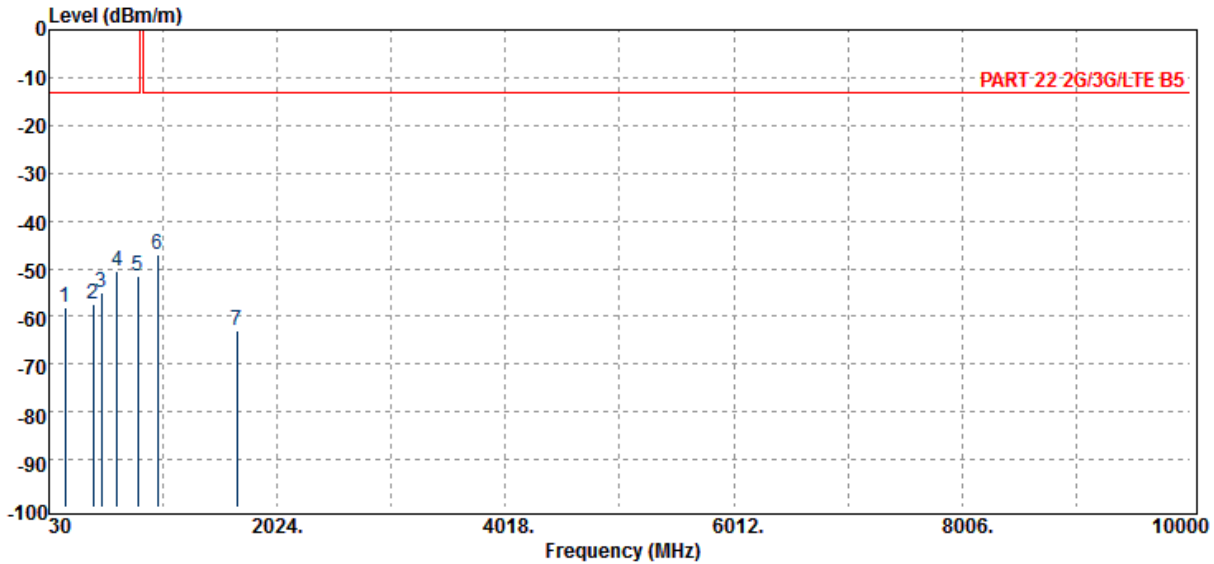
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Operation Band	:CDMA 850	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:836.52 MHz	Engineer	:Mike
Operation Mode	:Tx CH MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
173.56	S	-57.96	-58.32	1.89	-1.53	-13.00	-44.96
415.09	S	-57.30	-60.85	5.92	-2.37	-13.00	-44.30
485.90	S	-55.08	-58.78	5.95	-2.26	-13.00	-42.08
626.55	S	-50.48	-53.33	5.34	-2.49	-13.00	-37.48
804.06	S	-51.44	-54.03	5.49	-2.90	-13.00	-38.44
975.75	S	-47.06	-49.59	5.71	-3.18	-13.00	-34.06
1673.04	H	-62.99	-65.90	7.20	-4.29	-13.00	-49.99

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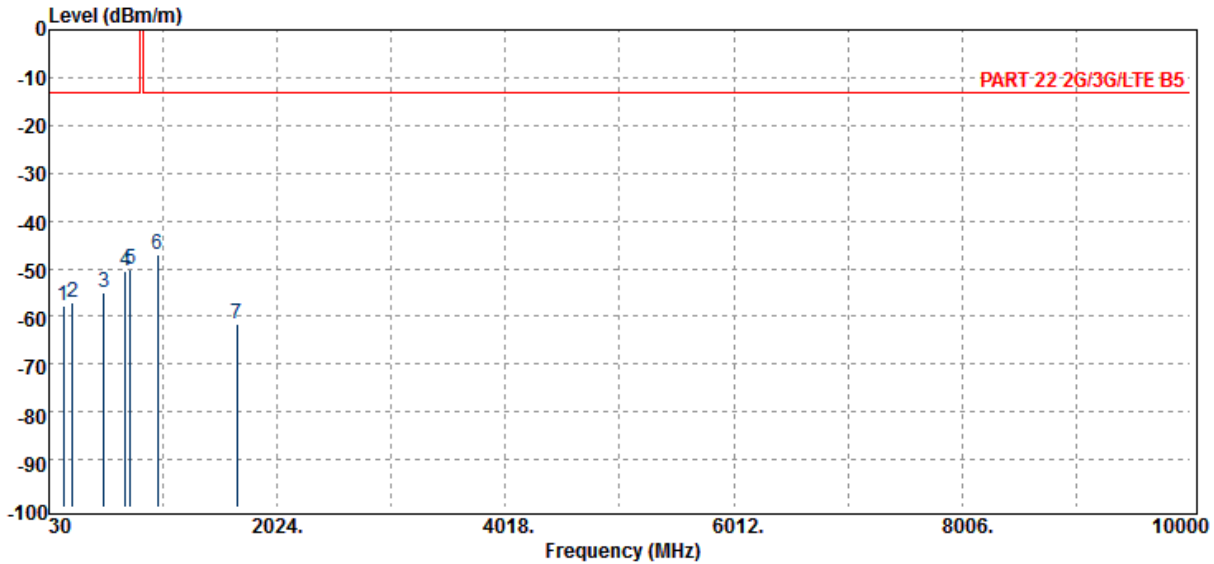
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Operation Band	:CDMA 850	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:836.52 MHz	Engineer	:Mike
Operation Mode	:Tx CH MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
159.01	S	-57.76	-56.76	0.47	-1.47	-13.00	-44.76
236.61	S	-57.06	-60.70	5.38	-1.73	-13.00	-44.06
510.15	S	-55.10	-58.71	5.95	-2.34	-13.00	-42.10
697.36	S	-50.53	-52.83	5.23	-2.93	-13.00	-37.53
741.01	S	-50.27	-52.45	5.31	-3.13	-13.00	-37.27
975.75	S	-47.19	-49.72	5.71	-3.18	-13.00	-34.19
1673.04	H	-61.71	-64.62	7.20	-4.29	-13.00	-48.71

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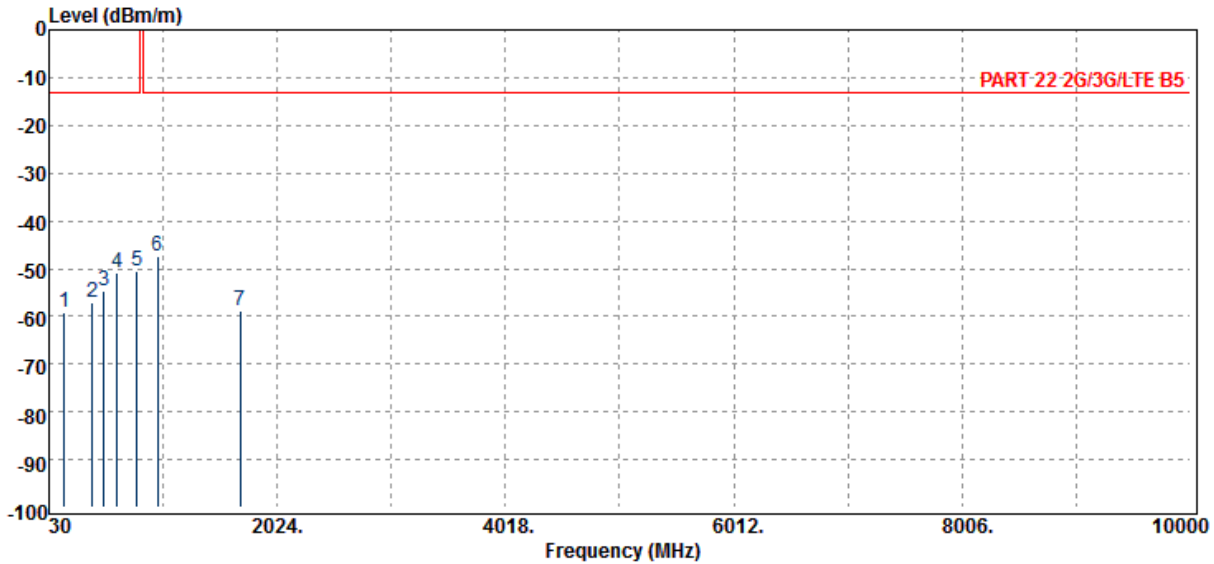
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Operation Band	:CDMA 850	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:848.31 MHz	Engineer	:Mike
Operation Mode	:Tx CH HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
162.89	S	-59.03	-58.27	0.73	-1.49	-13.00	-46.03
411.21	S	-57.22	-60.76	5.93	-2.39	-13.00	-44.22
512.09	S	-54.61	-58.20	5.94	-2.35	-13.00	-41.61
626.55	S	-51.04	-53.88	5.34	-2.49	-13.00	-38.04
799.21	S	-50.49	-53.08	5.49	-2.90	-13.00	-37.49
977.69	S	-47.49	-50.06	5.75	-3.19	-13.00	-34.49
1696.62	H	-58.95	-61.92	7.28	-4.31	-13.00	-45.95

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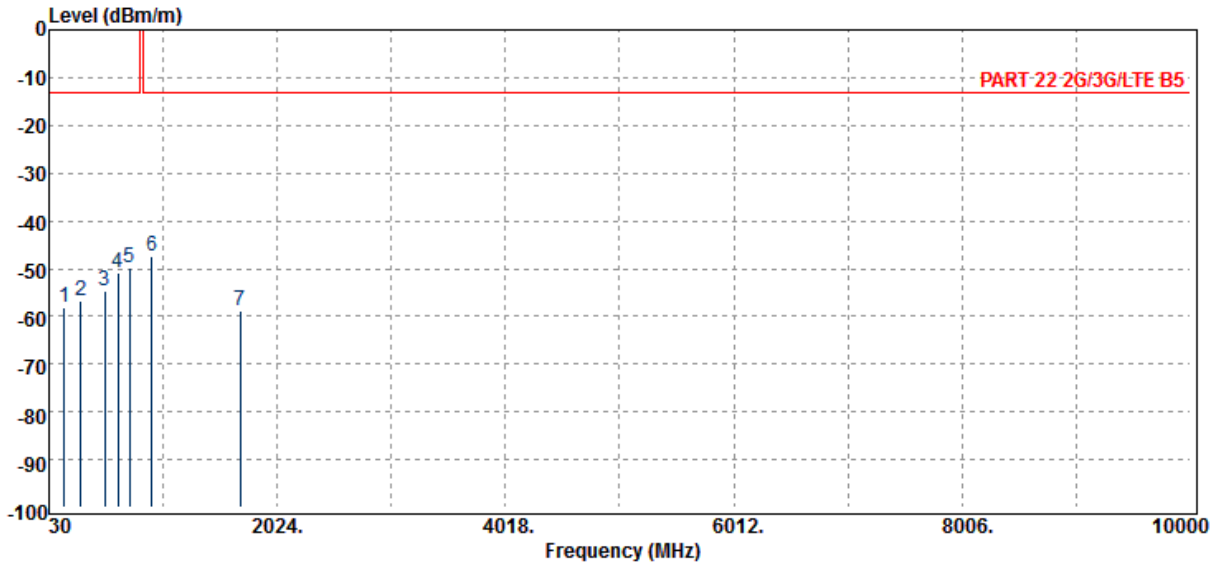
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Operation Band	:CDMA 850	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:848.31 MHz	Engineer	:Mike
Operation Mode	:Tx CH HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
162.89	S	-58.11	-57.35	0.73	-1.49	-13.00	-45.11
309.36	S	-56.72	-60.60	5.82	-1.94	-13.00	-43.72
515.97	S	-54.64	-58.19	5.92	-2.36	-13.00	-41.64
633.34	S	-50.85	-53.72	5.32	-2.46	-13.00	-37.85
736.16	S	-49.74	-51.92	5.30	-3.13	-13.00	-36.74
927.25	S	-47.26	-49.29	5.29	-3.25	-13.00	-34.26
1696.62	H	-58.80	-61.77	7.28	-4.31	-13.00	-45.80

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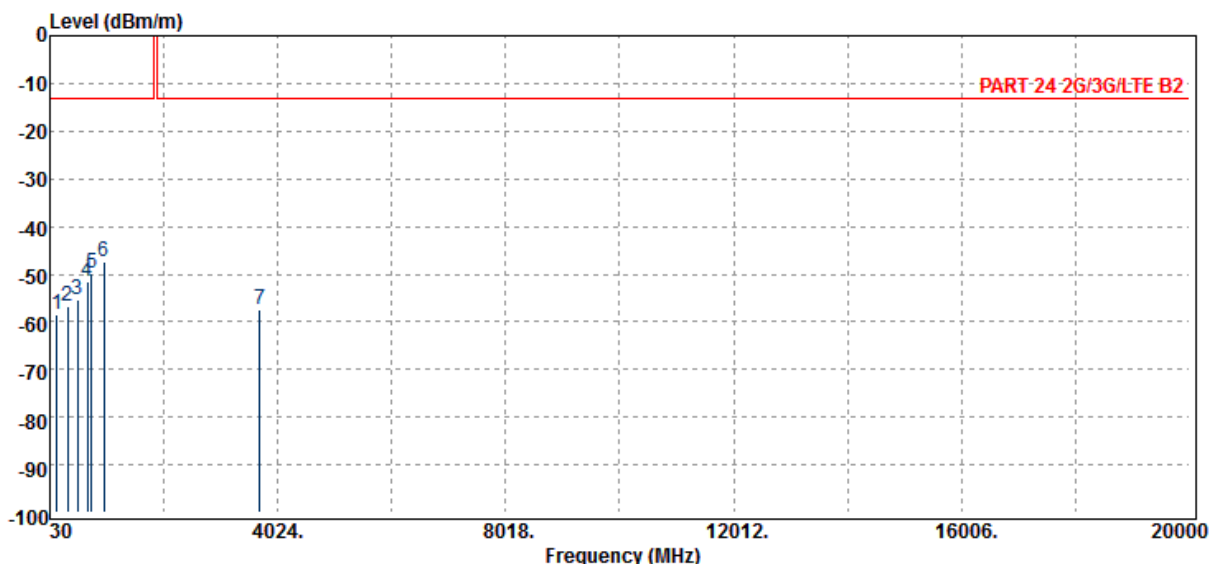
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### Radiated Spurious Emission Measurement Result: CDMA (BC1) Mode

Operation Band	:CDMA 1900	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:1851.25 MHz	Engineer	:Mike
Operation Mode	:Tx CH LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
158.04	S	-58.34	-57.29	0.42	-1.47	-13.00	-45.34
340.40	S	-56.84	-60.84	5.97	-1.97	-13.00	-43.84
512.09	S	-55.34	-58.93	5.94	-2.35	-13.00	-42.34
689.60	S	-51.45	-53.91	5.24	-2.79	-13.00	-38.45
759.44	S	-49.77	-52.12	5.36	-3.02	-13.00	-36.77
975.75	S	-47.35	-49.88	5.71	-3.18	-13.00	-34.35
3702.50	H	-57.35	-63.22	12.44	-6.58	-13.00	-44.35

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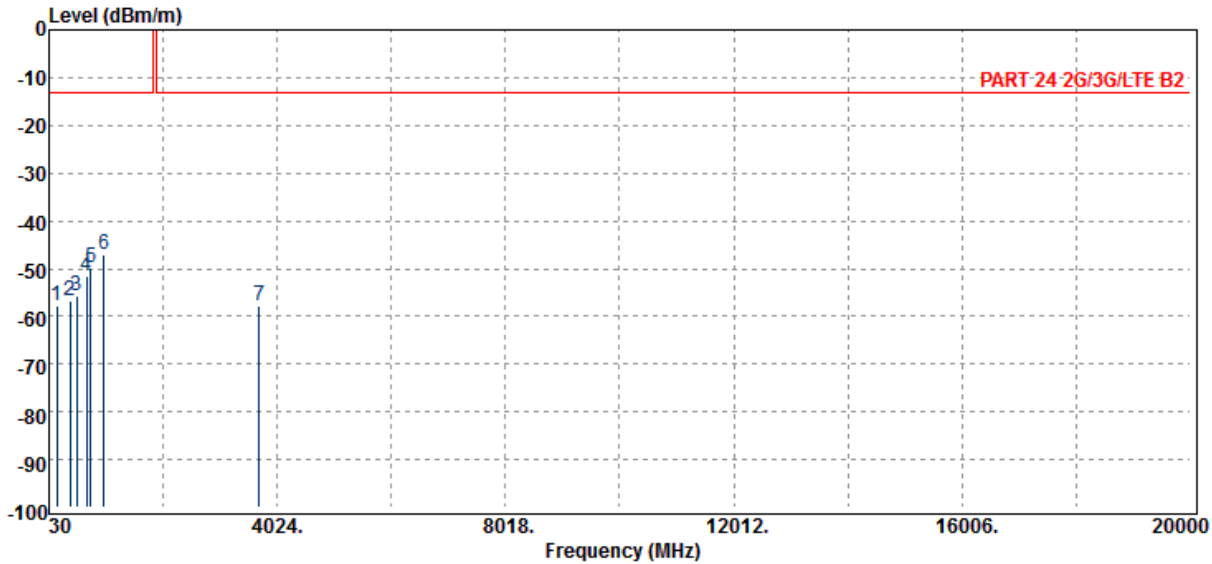
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Operation Band	:CDMA 1900	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:1851.25 MHz	Engineer	:Mike
Operation Mode	:Tx CH LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
165.80	S	-57.96	-57.40	0.94	-1.50	-13.00	-44.96
398.60	S	-56.92	-60.52	5.97	-2.37	-13.00	-43.92
515.97	S	-55.76	-59.32	5.92	-2.36	-13.00	-42.76
689.60	S	-51.59	-54.04	5.24	-2.79	-13.00	-38.59
757.50	S	-49.68	-52.00	5.36	-3.03	-13.00	-36.68
990.30	S	-47.17	-49.94	6.01	-3.24	-13.00	-34.17
3702.50	H	-57.64	-63.50	12.44	-6.58	-13.00	-44.64

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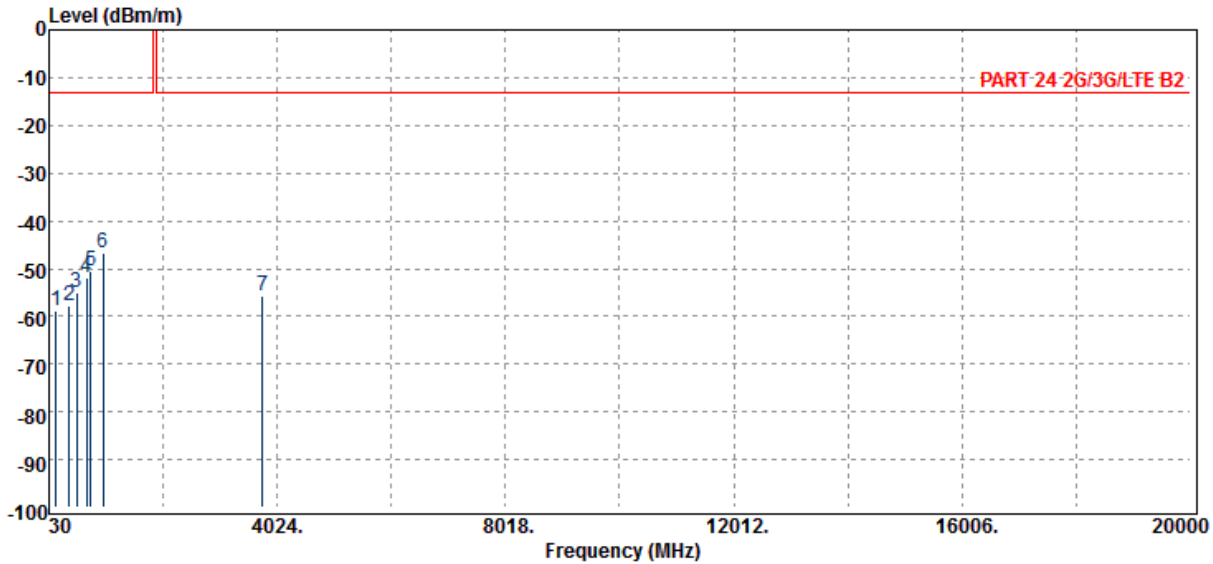
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Operation Band	:CDMA 1900	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:1880 MHz	Engineer	:Mike
Operation Mode	:Tx CH MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
156.10	S	-58.80	-57.67	0.34	-1.46	-13.00	-45.80
377.26	S	-57.82	-61.57	5.99	-2.24	-13.00	-44.82
508.21	S	-54.90	-58.53	5.96	-2.34	-13.00	-41.90
684.75	S	-51.75	-54.29	5.25	-2.70	-13.00	-38.75
752.65	S	-50.40	-52.68	5.34	-3.06	-13.00	-37.40
978.66	S	-46.74	-49.32	5.77	-3.19	-13.00	-33.74
3760.00	H	-55.67	-61.53	12.45	-6.60	-13.00	-42.67

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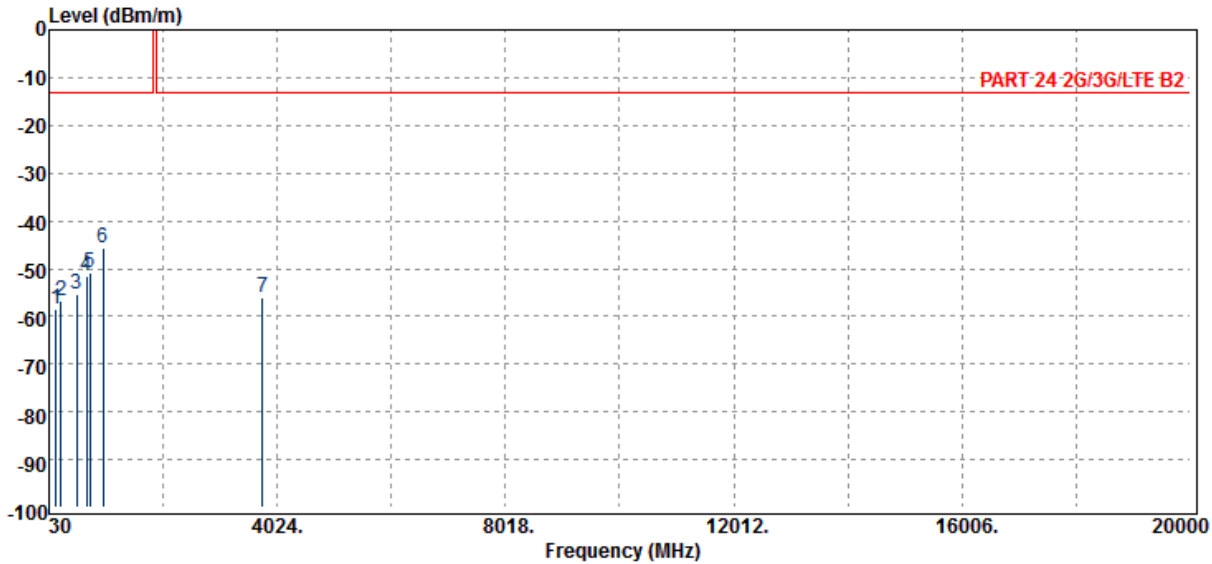
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Fundamental Frequency	:1880 MHz	Engineer	:Mike
Operation Mode	:Tx CH MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
154.16	S	-58.62	-57.42	0.25	-1.45	-13.00	-45.62
235.64	S	-56.59	-60.21	5.36	-1.73	-13.00	-43.59
510.15	S	-55.51	-59.12	5.95	-2.34	-13.00	-42.51
691.54	S	-51.68	-54.10	5.24	-2.83	-13.00	-38.68
741.01	S	-50.71	-52.89	5.31	-3.13	-13.00	-37.71
975.75	S	-45.52	-48.05	5.71	-3.18	-13.00	-32.52
3760.00	H	-56.17	-62.02	12.45	-6.60	-13.00	-43.17

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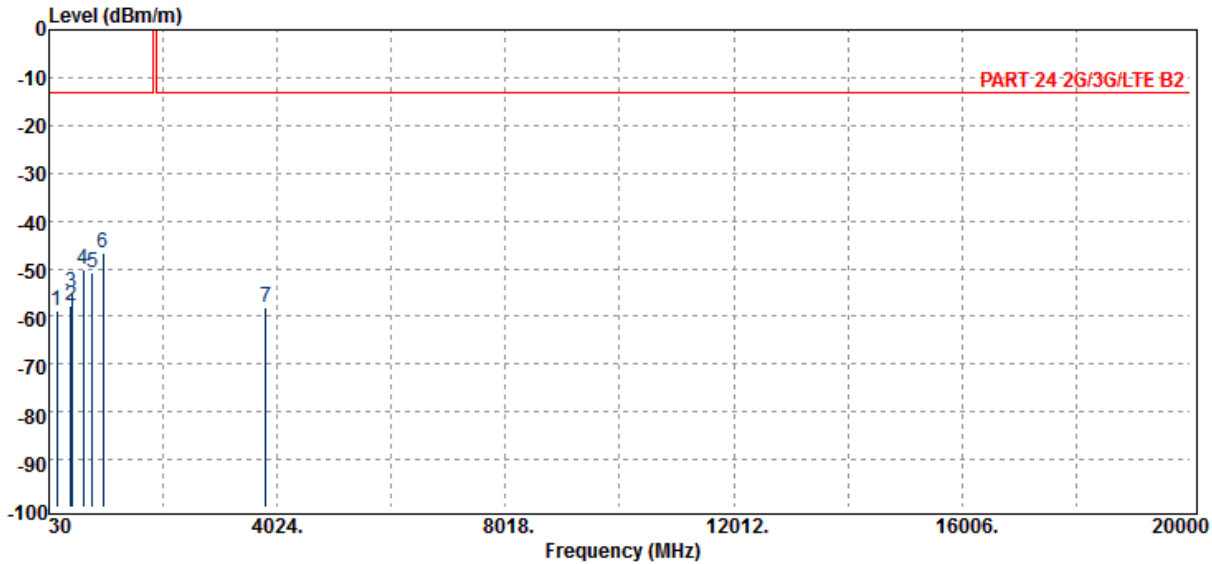
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Operation Band	:CDMA 1900	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:1908.75 MHz	Engineer	:Mike
Operation Mode	:Tx CH HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
172.59	S	-58.81	-59.00	1.71	-1.53	-13.00	-45.81
406.36	S	-57.80	-61.33	5.95	-2.42	-13.00	-44.80
434.49	S	-55.05	-58.66	5.85	-2.24	-13.00	-42.05
631.40	S	-50.15	-53.02	5.33	-2.46	-13.00	-37.15
794.36	S	-50.80	-53.38	5.47	-2.90	-13.00	-37.80
973.81	S	-46.83	-49.33	5.67	-3.18	-13.00	-33.83
3817.50	H	-58.14	-63.96	12.47	-6.64	-13.00	-45.14

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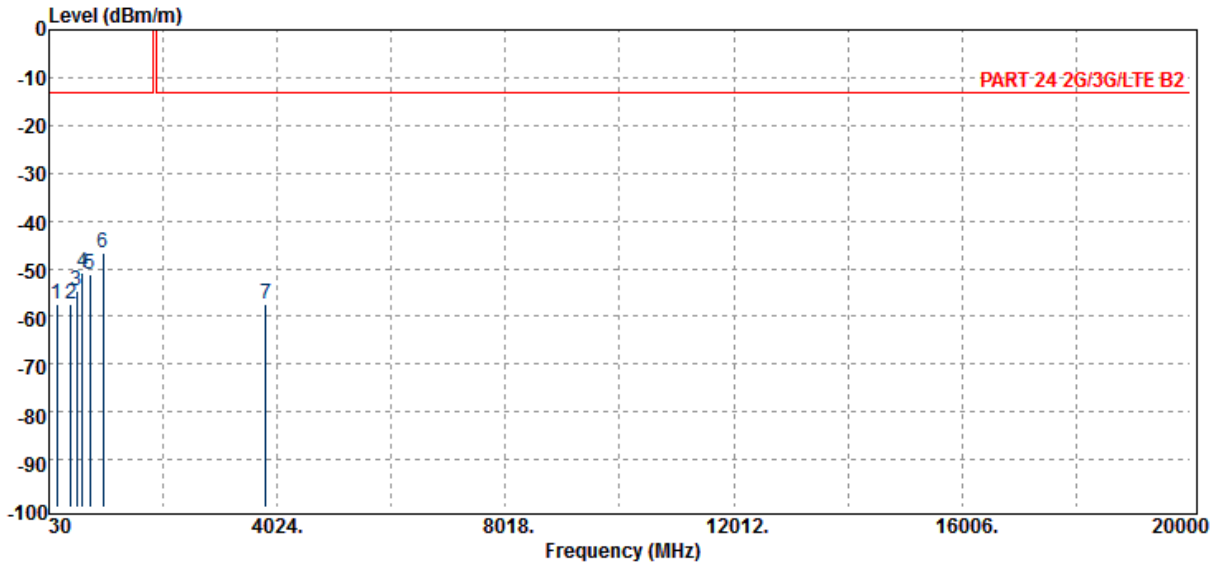
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Operation Band	:CDMA 1900	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:1908.75 MHz	Engineer	:Mike
Operation Mode	:Tx CH HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
168.71	S	-57.29	-56.93	1.15	-1.51	-13.00	-44.29
411.21	S	-57.40	-60.94	5.93	-2.39	-13.00	-44.40
512.09	S	-54.82	-58.41	5.94	-2.35	-13.00	-41.82
616.85	S	-50.75	-53.53	5.36	-2.58	-13.00	-37.75
749.74	S	-51.19	-53.44	5.33	-3.08	-13.00	-38.19
972.84	S	-46.84	-49.33	5.65	-3.17	-13.00	-33.84
3817.50	H	-57.38	-63.20	12.47	-6.64	-13.00	-44.38

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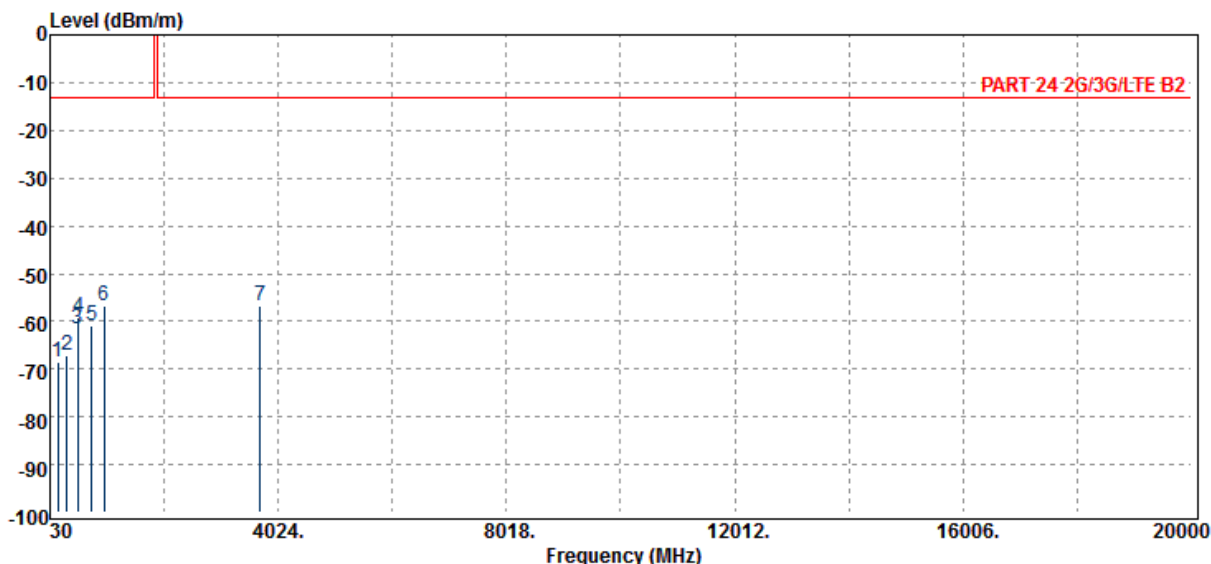
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### Radiated Spurious Emission Measurement Result: HSDPA Band 2 Mode

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



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
173.56	S	-68.39	-68.75	1.89	-1.53	-13.00	-55.39
328.76	S	-66.97	-70.97	5.91	-1.91	-13.00	-53.97
515.97	S	-61.58	-65.14	5.92	-2.36	-13.00	-48.58
532.46	S	-59.20	-62.50	5.83	-2.52	-13.00	-46.20
765.26	S	-60.78	-63.18	5.38	-2.98	-13.00	-47.78
980.60	S	-56.81	-59.43	5.81	-3.20	-13.00	-43.81
3704.80	H	-56.80	-62.66	12.44	-6.58	-13.00	-43.80

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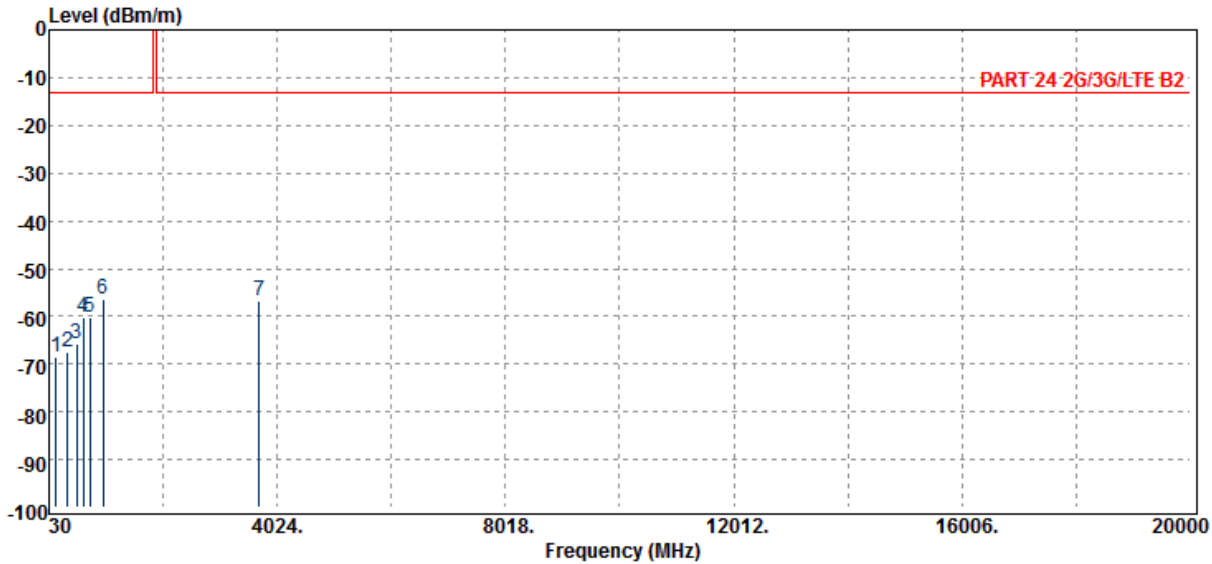
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Operation Band	:HSDPA B2	Temp./Humi.	:22 deg_C / 62 RH
Fundamental Frequency	:1852.4 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
159.98	S	-68.62	-67.65	0.51	-1.48	-13.00	-55.62
359.80	S	-67.40	-71.29	6.00	-2.12	-13.00	-54.40
515.97	S	-65.81	-69.36	5.92	-2.36	-13.00	-52.81
629.46	S	-60.24	-63.10	5.33	-2.47	-13.00	-47.24
749.74	S	-60.09	-62.34	5.33	-3.08	-13.00	-47.09
983.51	S	-56.38	-59.04	5.87	-3.21	-13.00	-43.38
3704.80	H	-56.75	-62.61	12.44	-6.58	-13.00	-43.75

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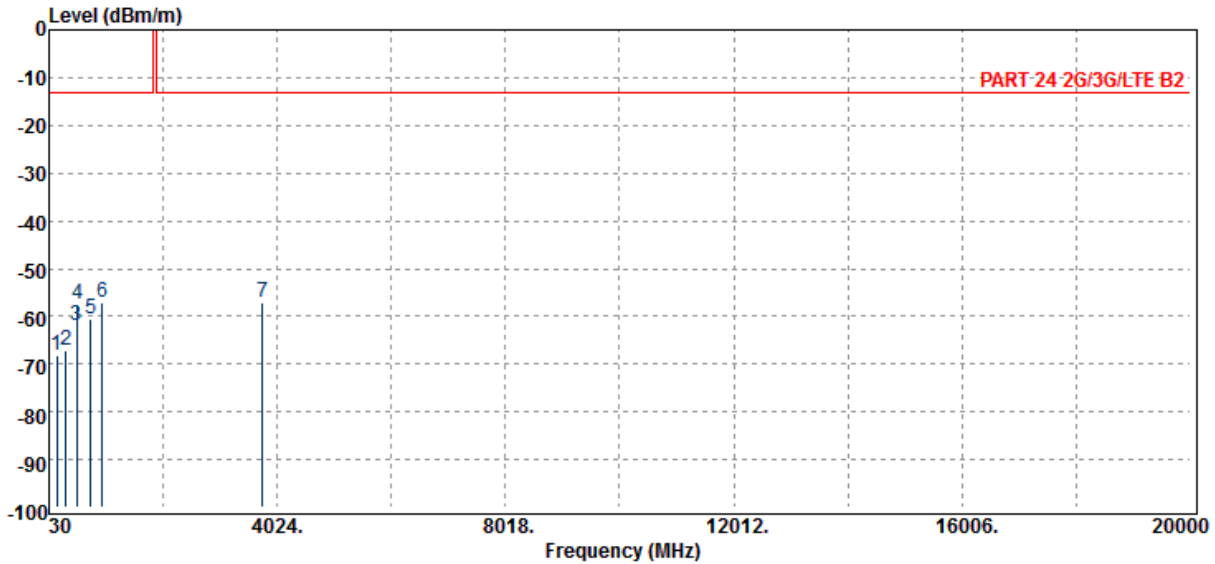
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Operation Band	:HSDPA B2	Temp./Humi.	:22 deg_C / 62 RH
Fundamental Frequency	:1880 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
173.56	S	-68.18	-68.54	1.89	-1.53	-13.00	-55.18
328.76	S	-67.28	-71.28	5.91	-1.91	-13.00	-54.28
515.00	S	-61.89	-65.46	5.92	-2.36	-13.00	-48.89
532.46	S	-57.32	-60.63	5.83	-2.52	-13.00	-44.32
754.59	S	-60.66	-62.96	5.35	-3.05	-13.00	-47.66
966.05	S	-57.16	-59.53	5.52	-3.15	-13.00	-44.16
3760.00	H	-57.15	-63.01	12.45	-6.60	-13.00	-44.15

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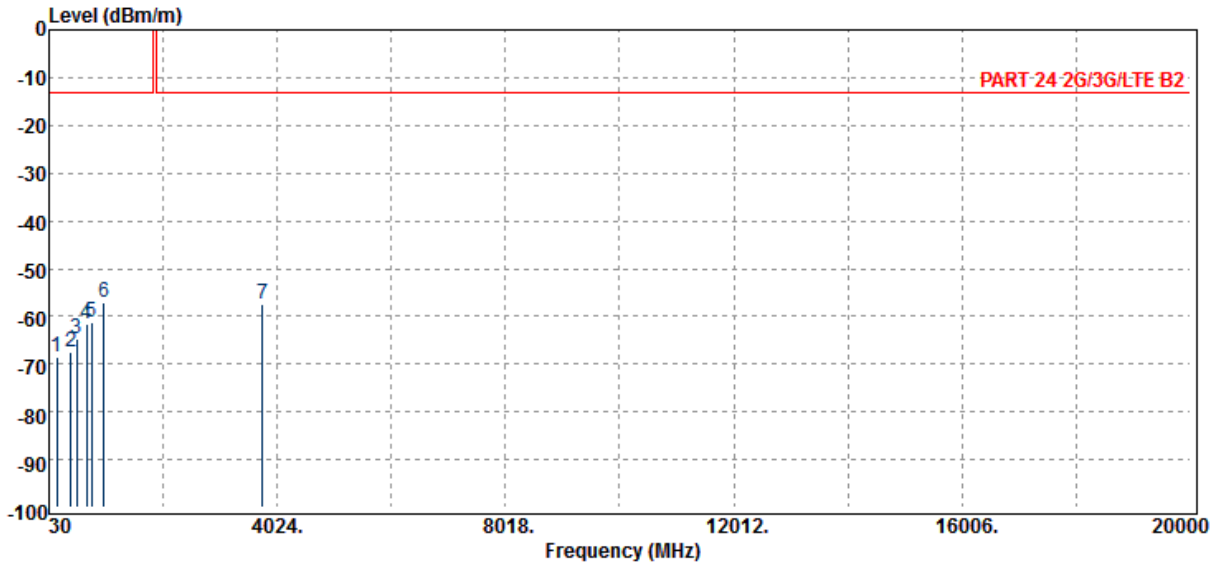
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Operation Band	:HSDPA B2	Temp./Humi.	:22 deg_C / 62 RH
Fundamental Frequency	:1880 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
167.74	S	-68.68	-68.25	1.08	-1.51	-13.00	-55.68
406.36	S	-67.40	-70.93	5.95	-2.42	-13.00	-54.40
513.06	S	-64.87	-68.45	5.94	-2.35	-13.00	-51.87
691.54	S	-61.60	-64.02	5.24	-2.83	-13.00	-48.60
767.20	S	-61.12	-63.54	5.39	-2.97	-13.00	-48.12
987.39	S	-57.14	-59.86	5.95	-3.23	-13.00	-44.14
3760.00	H	-57.29	-63.14	12.45	-6.60	-13.00	-44.29

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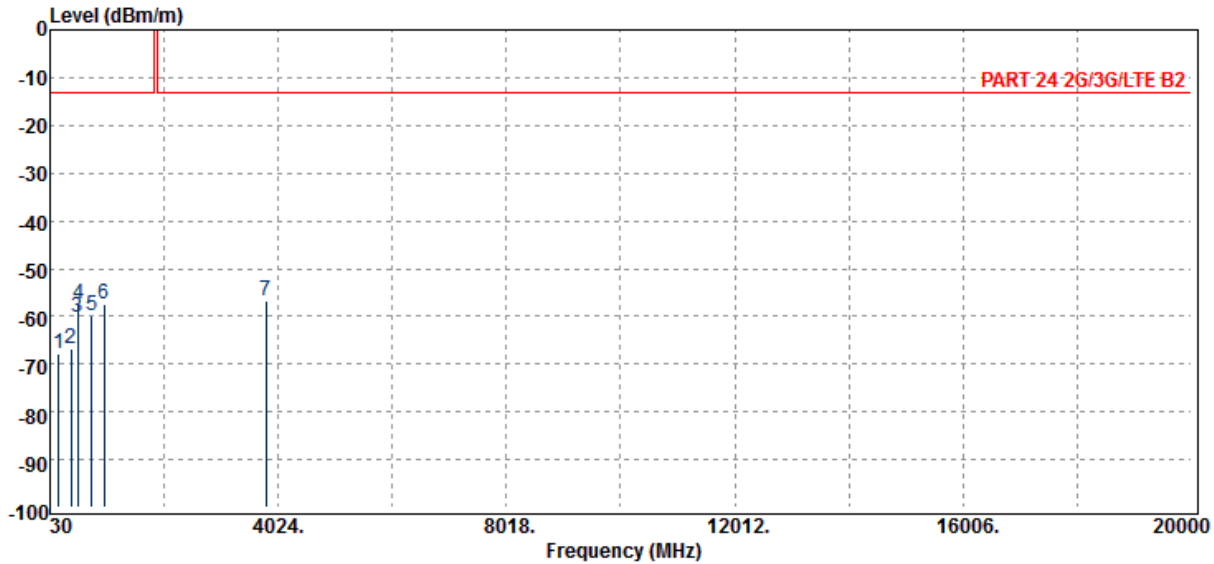
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Operation Band	:HSDPA B2	Temp./Humi.	:22 deg_C / 62 RH
Fundamental Frequency	:1907.6 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
178.41	S	-67.93	-69.13	2.76	-1.55	-13.00	-54.93
400.54	S	-66.81	-70.40	5.97	-2.38	-13.00	-53.81
513.06	S	-60.28	-63.87	5.94	-2.35	-13.00	-47.28
531.49	S	-57.36	-60.68	5.84	-2.51	-13.00	-44.36
755.56	S	-59.99	-62.30	5.35	-3.04	-13.00	-46.99
978.66	S	-57.30	-59.88	5.77	-3.19	-13.00	-44.30
3815.20	H	-56.85	-62.68	12.46	-6.63	-13.00	-43.85

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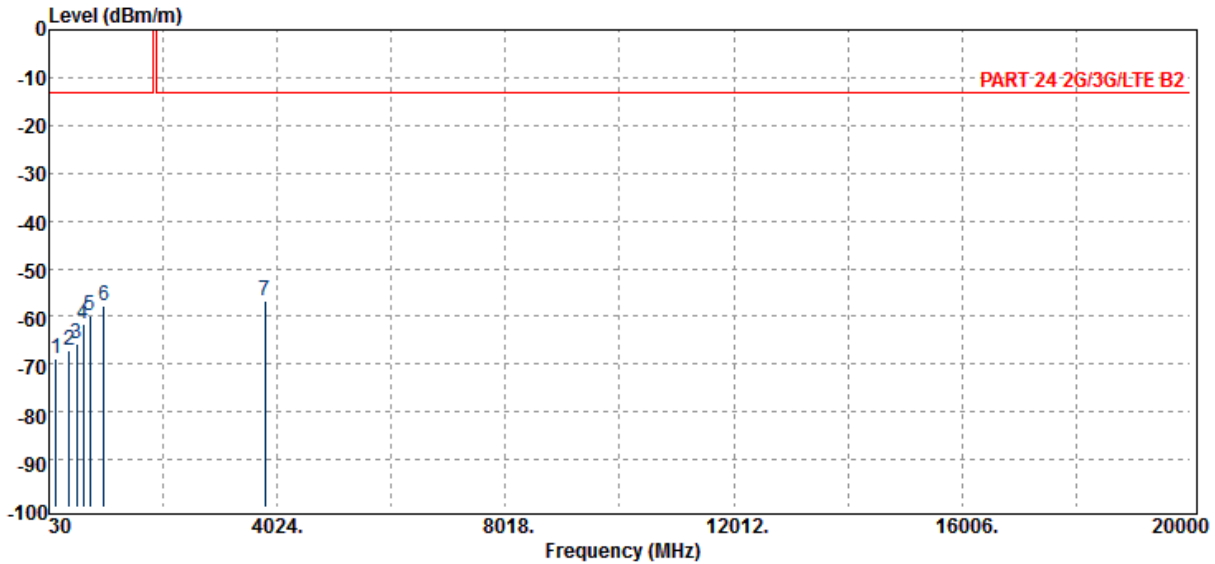
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Operation Band	:HSDPA B2	Temp./Humi.	:22 deg_C / 62 RH
Fundamental Frequency	:1907.6 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
159.98	S	-68.80	-67.83	0.51	-1.48	-13.00	-55.80
377.26	S	-67.26	-71.00	5.99	-2.24	-13.00	-54.26
513.06	S	-65.60	-69.18	5.94	-2.35	-13.00	-52.60
626.55	S	-61.69	-64.53	5.34	-2.49	-13.00	-48.69
745.86	S	-59.70	-61.92	5.32	-3.10	-13.00	-46.70
990.30	S	-57.90	-60.67	6.01	-3.24	-13.00	-44.90
3815.20	H	-56.90	-62.73	12.46	-6.63	-13.00	-43.90

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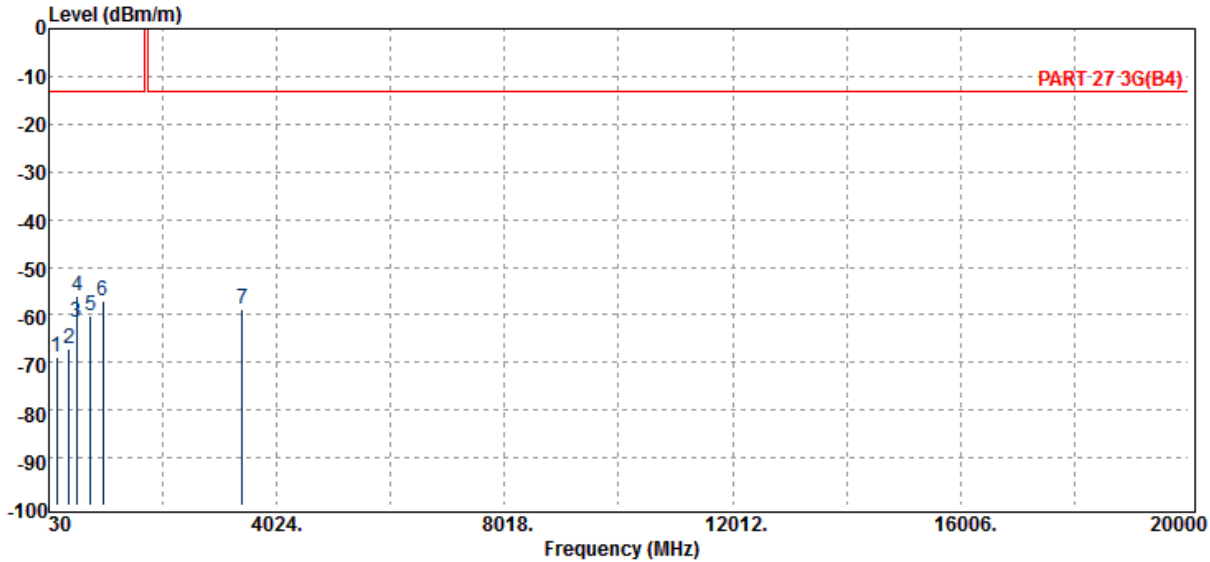
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### Radiated Spurious Emission Measurement Result: HSDPA Band 4 Mode

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.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
165.80	S	-68.80	-68.24	0.94	-1.50	-13.00	-55.80
379.20	S	-67.25	-70.98	5.99	-2.26	-13.00	-54.25
513.06	S	-61.44	-65.03	5.94	-2.35	-13.00	-48.44
532.46	S	-56.02	-59.33	5.83	-2.52	-13.00	-43.02
752.65	S	-60.15	-62.43	5.34	-3.06	-13.00	-47.15
978.66	S	-56.93	-59.51	5.77	-3.19	-13.00	-43.93
3424.80	H	-58.95	-64.99	12.27	-6.23	-13.00	-45.95

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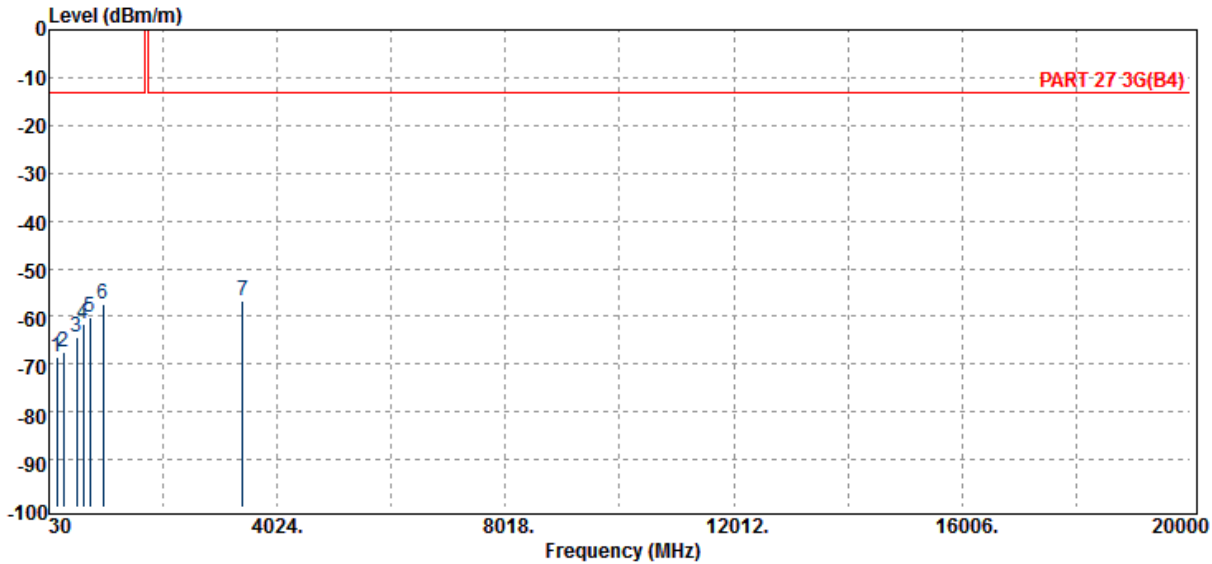
t (886-2) 2299-3279

f (886-2) 2298-0488

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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.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
168.71	S	-68.45	-68.09	1.15	-1.51	-13.00	-55.45
277.35	S	-67.30	-71.04	5.60	-1.86	-13.00	-54.30
515.00	S	-64.26	-67.83	5.92	-2.36	-13.00	-51.26
631.40	S	-61.75	-64.61	5.33	-2.46	-13.00	-48.75
750.71	S	-60.31	-62.57	5.33	-3.07	-13.00	-47.31
982.54	S	-57.41	-60.05	5.85	-3.21	-13.00	-44.41
3424.80	H	-56.82	-62.86	12.27	-6.23	-13.00	-43.82

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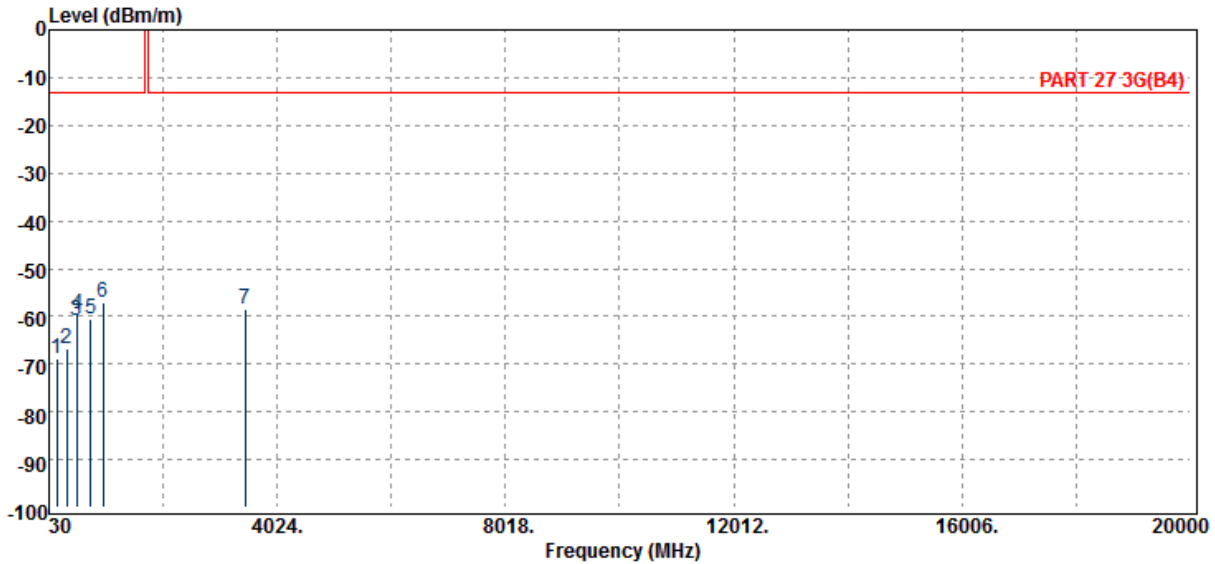
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Operation Band	:HSDPA B4	Temp./Humi.	:22 deg_C / 62 RH
Fundamental Frequency	:1732.6 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
165.80	S	-68.99	-68.42	0.94	-1.50	-13.00	-55.99
333.61	S	-66.70	-70.72	5.94	-1.92	-13.00	-53.70
515.00	S	-60.88	-64.44	5.92	-2.36	-13.00	-47.88
531.49	S	-59.66	-62.99	5.84	-2.51	-13.00	-46.66
752.65	S	-60.54	-62.82	5.34	-3.06	-13.00	-47.54
978.66	S	-56.92	-59.50	5.77	-3.19	-13.00	-43.92
3465.20	H	-58.62	-64.71	12.34	-6.25	-13.00	-45.62

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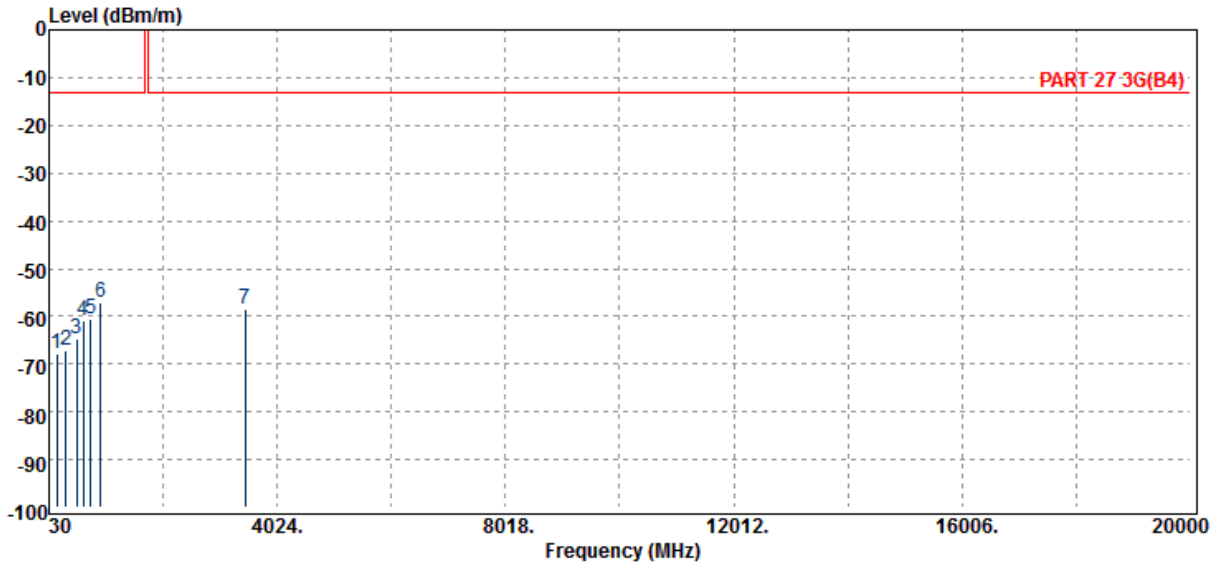
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Operation Band	:HSDPA B4	Temp./Humi.	:22 deg_C / 62 RH
Fundamental Frequency	:1732.6 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
168.71	S	-67.80	-67.43	1.15	-1.51	-13.00	-54.80
319.06	S	-67.19	-71.14	5.87	-1.92	-13.00	-54.19
513.06	S	-64.71	-68.29	5.94	-2.35	-13.00	-51.71
633.34	S	-61.07	-63.93	5.32	-2.46	-13.00	-48.07
755.56	S	-60.46	-62.77	5.35	-3.04	-13.00	-47.46
934.04	S	-57.26	-59.29	5.26	-3.23	-13.00	-44.26
3465.20	H	-58.64	-64.73	12.34	-6.25	-13.00	-45.64

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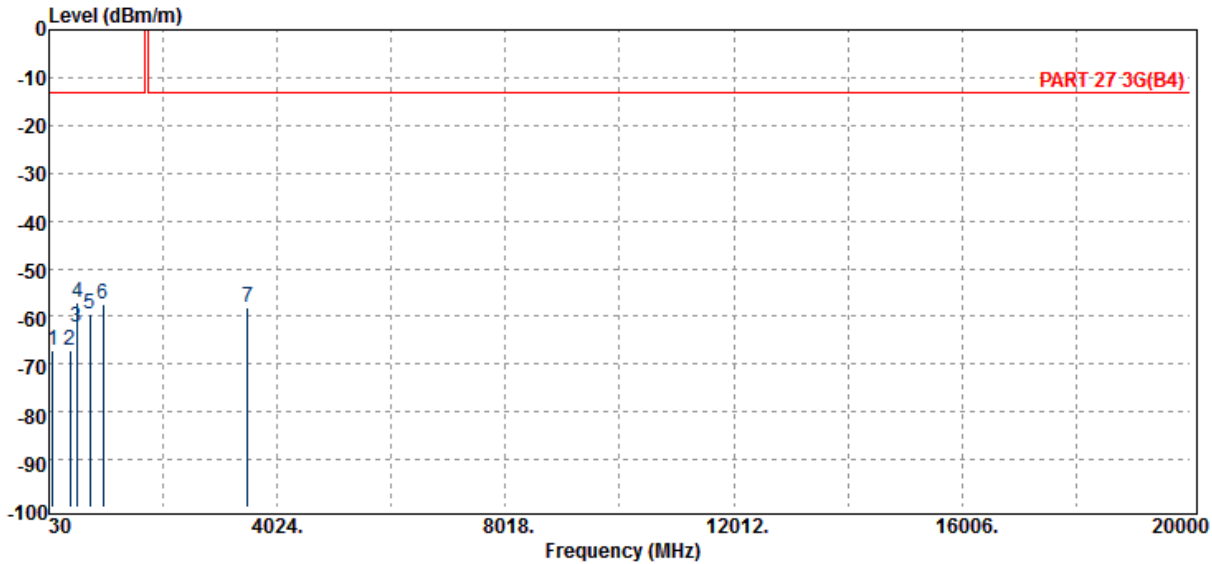
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Operation Band	:HSDPA B4	Temp./Humi.	:22 deg_C / 62 RH
Fundamental Frequency	:1752.6 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
91.11	S	-67.11	-67.47	1.58	-1.21	-13.00	-54.11
395.69	S	-67.20	-70.82	5.97	-2.35	-13.00	-54.20
513.06	S	-62.36	-65.94	5.94	-2.35	-13.00	-49.36
532.46	S	-57.06	-60.36	5.83	-2.52	-13.00	-44.06
750.71	S	-59.65	-61.91	5.33	-3.07	-13.00	-46.65
977.69	S	-57.42	-59.99	5.75	-3.19	-13.00	-44.42
3505.20	H	-58.23	-64.16	12.40	-6.47	-13.00	-45.23

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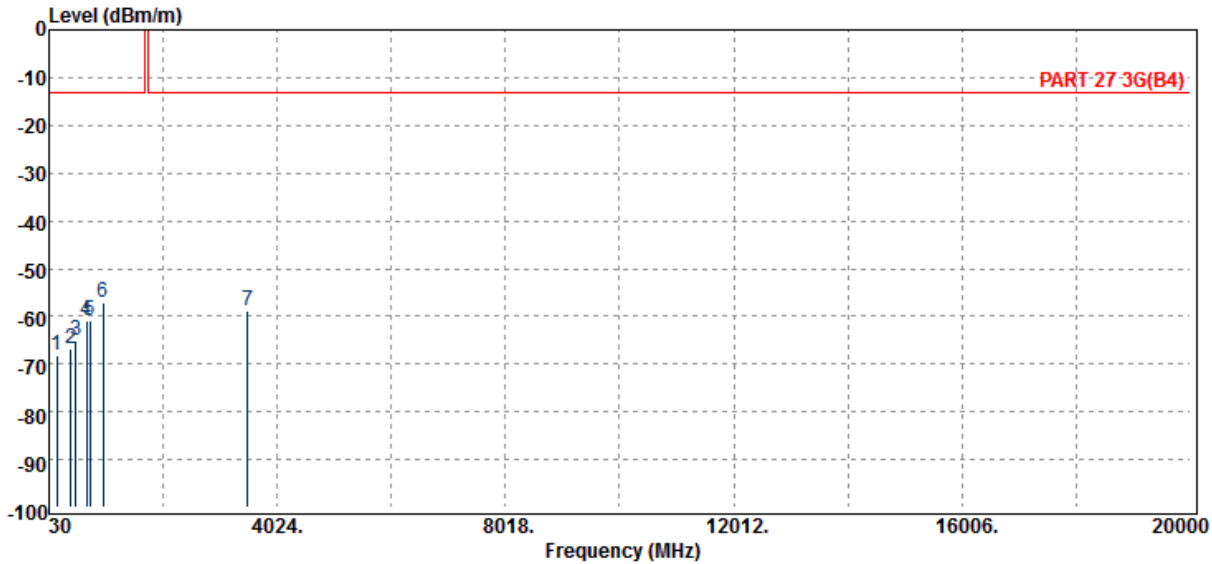
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Operation Band	:HSDPA B4	Temp./Humi.	:22 deg_C / 62 RH
Fundamental Frequency	:1752.6 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
173.56	S	-68.03	-68.39	1.89	-1.53	-13.00	-55.03
408.30	S	-66.85	-70.38	5.94	-2.41	-13.00	-53.85
503.36	S	-64.94	-68.61	5.99	-2.32	-13.00	-51.94
682.81	S	-61.01	-63.60	5.25	-2.67	-13.00	-48.01
750.71	S	-60.96	-63.22	5.33	-3.07	-13.00	-47.96
970.90	S	-56.94	-59.40	5.62	-3.16	-13.00	-43.94
3505.20	H	-58.72	-64.65	12.40	-6.47	-13.00	-45.72

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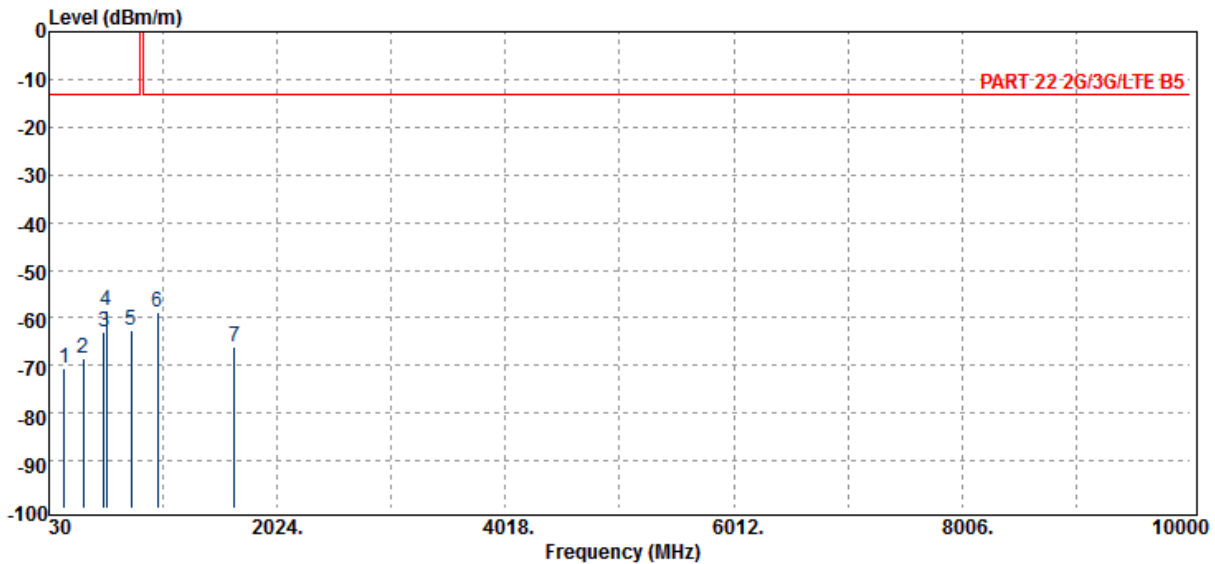
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### Radiated Spurious Emission Measurement Result: HSDPA Band 5 Mode

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



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
159.98	S	-70.63	-67.51	-1.64	-1.48	-13.00	-57.63
328.76	S	-68.54	-70.39	3.76	-1.91	-13.00	-55.54
512.09	S	-62.86	-64.30	3.79	-2.35	-13.00	-49.86
532.46	S	-58.46	-59.62	3.68	-2.52	-13.00	-45.46
749.74	S	-62.78	-62.88	3.18	-3.08	-13.00	-49.78
977.69	S	-58.99	-59.40	3.60	-3.19	-13.00	-45.99
1652.80	H	-65.94	-68.82	7.12	-4.24	-13.00	-52.94

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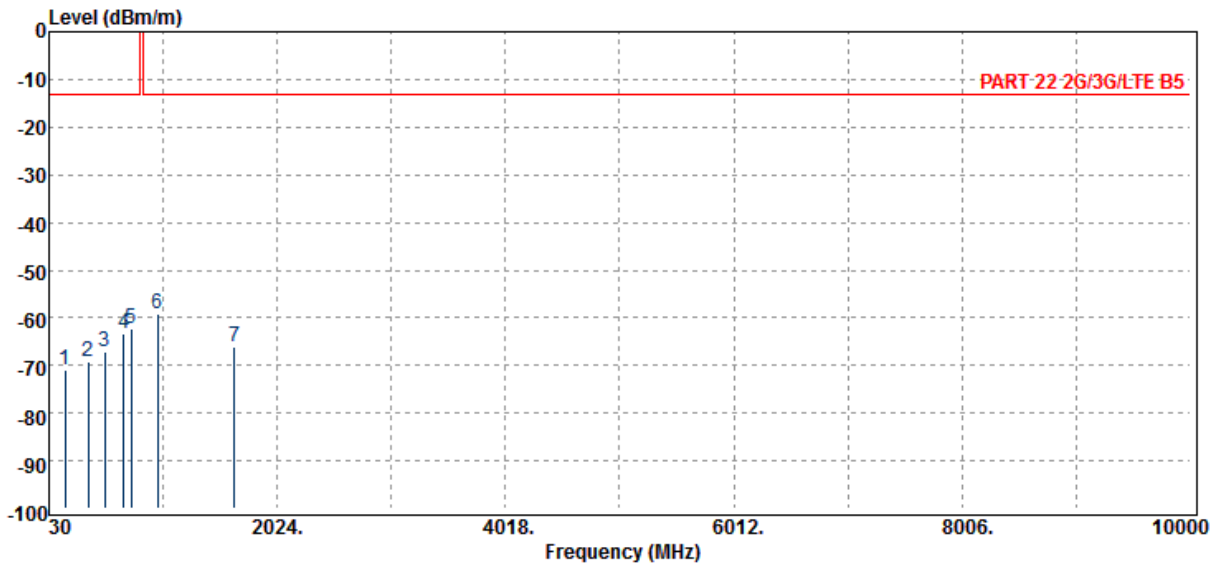
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Operation Band	:HSDPA B5	Temp./Humi.	:24 deg_C / 61 RH
Fundamental Frequency	:826.4 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
168.71	S	-70.87	-68.36	-1.00	-1.51	-13.00	-57.87
371.44	S	-69.31	-70.95	3.84	-2.21	-13.00	-56.31
515.00	S	-67.21	-68.63	3.77	-2.36	-13.00	-54.21
684.75	S	-63.35	-63.74	3.10	-2.70	-13.00	-50.35
750.71	S	-62.44	-62.55	3.18	-3.07	-13.00	-49.44
975.75	S	-59.30	-59.69	3.56	-3.18	-13.00	-46.30
1652.80	H	-66.16	-69.04	7.12	-4.24	-13.00	-53.16

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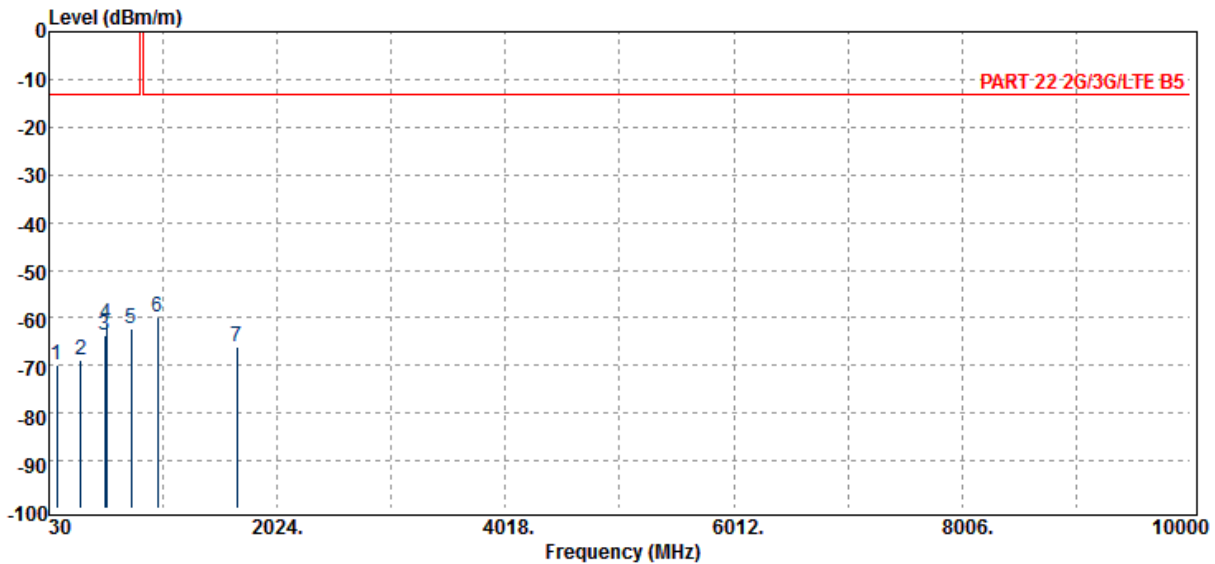
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Operation Band	:HSDPA B5	Temp./Humi.	:24 deg_C / 61 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
94.99	S	-70.01	-67.74	-1.04	-1.23	-13.00	-57.01
306.45	S	-68.97	-70.69	3.66	-1.94	-13.00	-55.97
515.97	S	-63.54	-64.95	3.77	-2.36	-13.00	-50.54
531.49	S	-61.39	-62.56	3.69	-2.51	-13.00	-48.39
749.74	S	-62.21	-62.31	3.18	-3.08	-13.00	-49.21
980.60	S	-60.00	-60.47	3.66	-3.20	-13.00	-47.00
1673.20	H	-66.23	-69.14	7.20	-4.29	-13.00	-53.23

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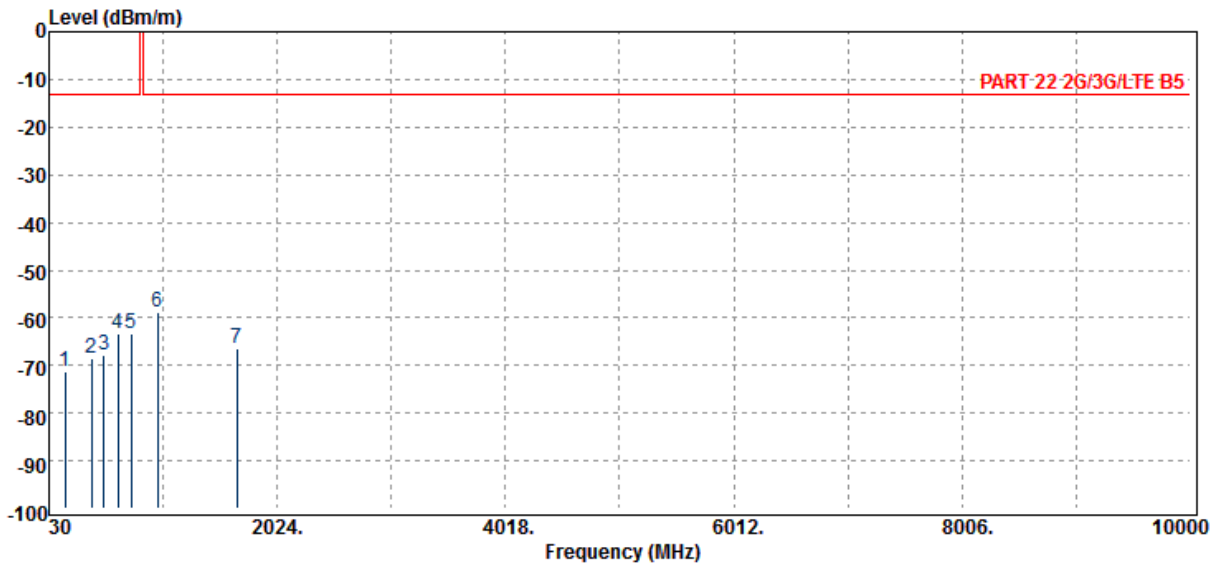
t (886-2) 2299-3279

f (886-2) 2298-0488

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



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
172.59	S	-71.24	-69.28	-0.44	-1.53	-13.00	-58.24
398.60	S	-68.52	-69.97	3.82	-2.37	-13.00	-55.52
513.06	S	-67.82	-69.25	3.79	-2.35	-13.00	-54.82
634.31	S	-63.24	-63.95	3.17	-2.45	-13.00	-50.24
750.71	S	-63.18	-63.29	3.18	-3.07	-13.00	-50.18
977.69	S	-58.65	-59.06	3.60	-3.19	-13.00	-45.65
1673.20	H	-66.55	-69.46	7.20	-4.29	-13.00	-53.55

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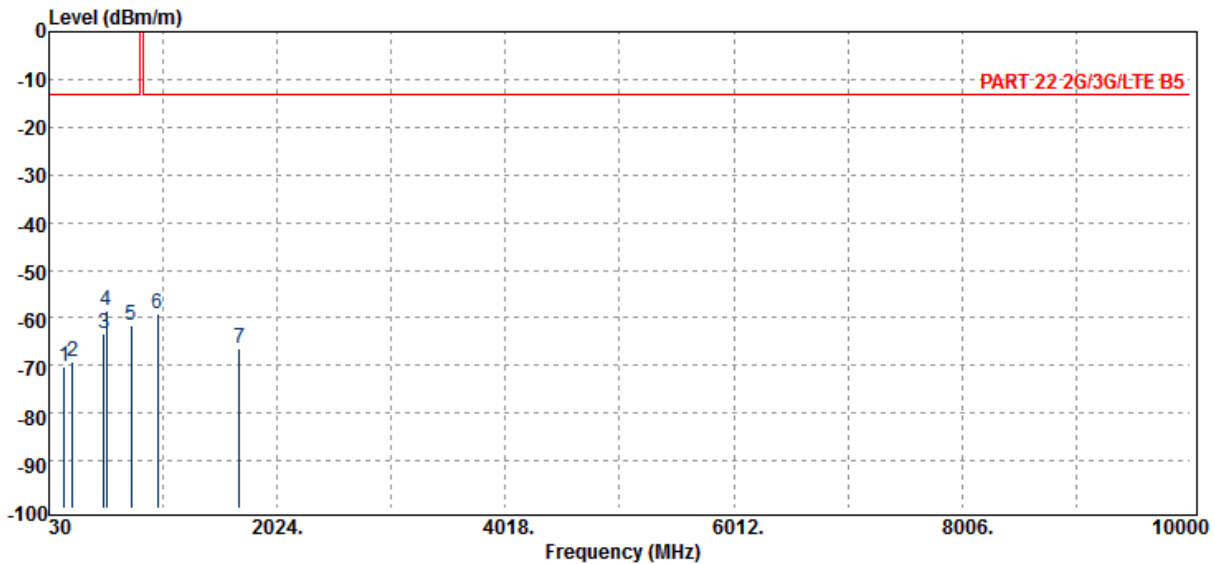
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Operation Band	:HSDPA B5	Temp./Humi.	:24 deg_C / 61 RH
Fundamental Frequency	:846.6 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
165.80	S	-70.08	-67.36	-1.21	-1.50	-13.00	-57.08
236.61	S	-69.10	-70.59	3.23	-1.73	-13.00	-56.10
513.06	S	-63.27	-64.70	3.79	-2.35	-13.00	-50.27
531.49	S	-58.52	-59.69	3.69	-2.51	-13.00	-45.52
750.71	S	-61.69	-61.80	3.18	-3.07	-13.00	-48.69
980.60	S	-59.02	-59.48	3.66	-3.20	-13.00	-46.02
1693.20	H	-66.49	-69.45	7.27	-4.30	-13.00	-53.49

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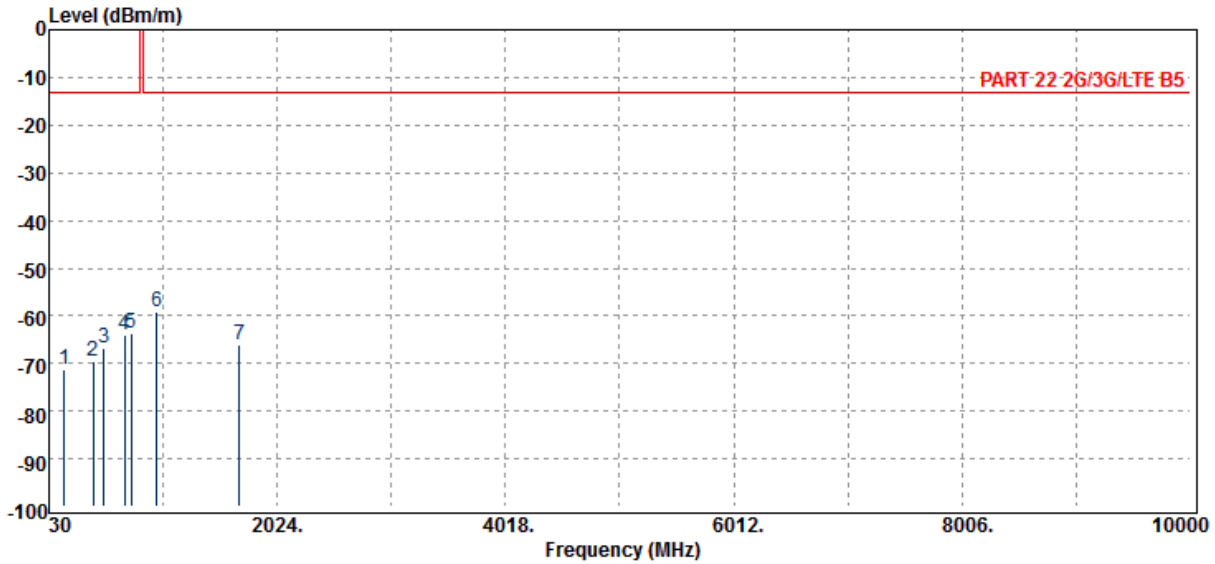
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Operation Band	:HSDPA B5	Temp./Humi.	:24 deg_C / 61 RH
Fundamental Frequency	:846.6 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
160.95	S	-71.28	-68.23	-1.57	-1.48	-13.00	-58.28
416.06	S	-69.60	-71.01	3.76	-2.36	-13.00	-56.60
513.06	S	-66.61	-68.05	3.79	-2.35	-13.00	-53.61
691.54	S	-64.10	-64.36	3.09	-2.83	-13.00	-51.10
749.74	S	-63.54	-63.64	3.18	-3.08	-13.00	-50.54
972.84	S	-59.21	-59.54	3.50	-3.17	-13.00	-46.21
1693.20	H	-66.07	-69.03	7.27	-4.30	-13.00	-53.07

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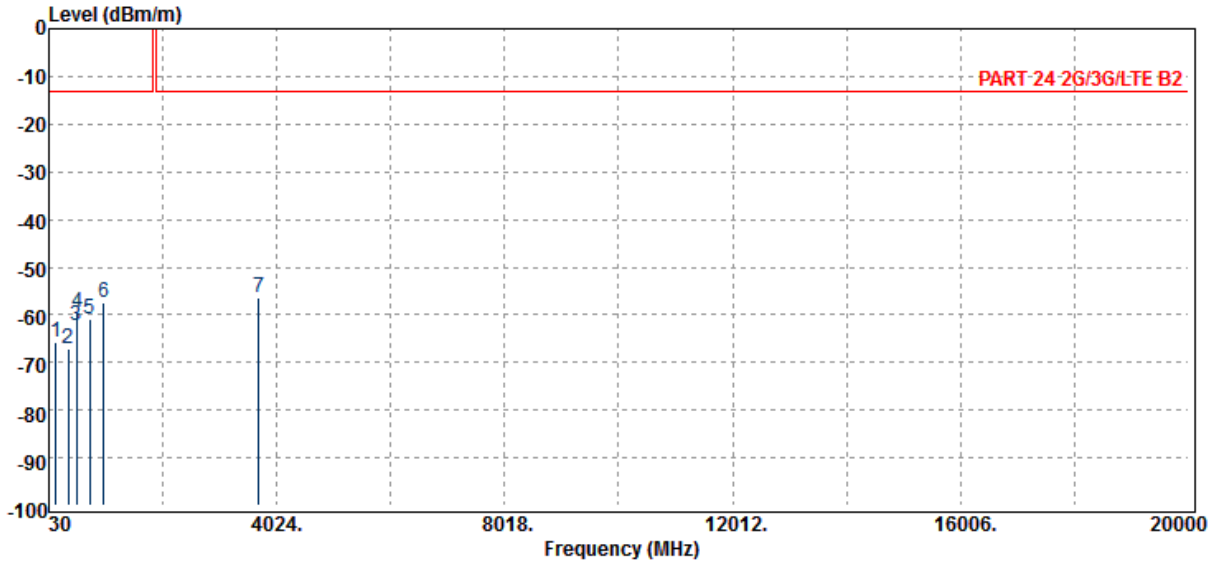
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### Radiated Spurious Emission Measurement Result: LTE-Band 2 (The Worst Case)

Operation Band	:LTE B2	Temp./Humi.	:23 deg_C / 62 RH
Fundamental Frequency	:1852.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
154.16	S	-65.68	-64.47	0.25	-1.45	-13.00	-52.68
366.59	S	-67.17	-70.99	6.00	-2.17	-13.00	-54.17
515.00	S	-62.17	-65.74	5.92	-2.36	-13.00	-49.17
531.49	S	-59.41	-62.74	5.84	-2.51	-13.00	-46.41
745.86	S	-61.05	-63.27	5.32	-3.10	-13.00	-48.05
985.45	S	-57.45	-60.15	5.91	-3.22	-13.00	-44.45
3705.00	H	-56.53	-62.39	12.44	-6.58	-13.00	-43.53

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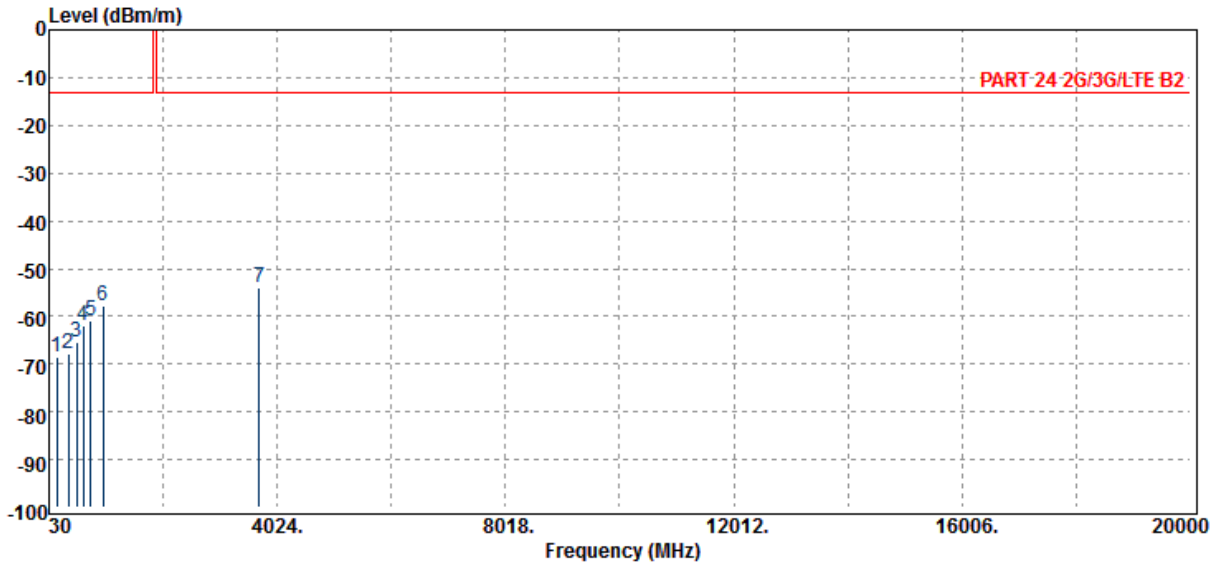
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Operation Band	:LTE B2	Temp./Humi.	:23 deg_C / 62 RH
Fundamental Frequency	:1852.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
172.59	S	-68.48	-68.66	1.71	-1.53	-13.00	-55.48
369.50	S	-67.78	-71.58	6.00	-2.20	-13.00	-54.78
515.97	S	-65.47	-69.02	5.92	-2.36	-13.00	-52.47
628.49	S	-62.05	-64.91	5.33	-2.47	-13.00	-49.05
755.56	S	-60.94	-63.25	5.35	-3.04	-13.00	-47.94
980.60	S	-57.76	-60.37	5.81	-3.20	-13.00	-44.76
3705.00	H	-54.12	-59.98	12.44	-6.58	-13.00	-41.12

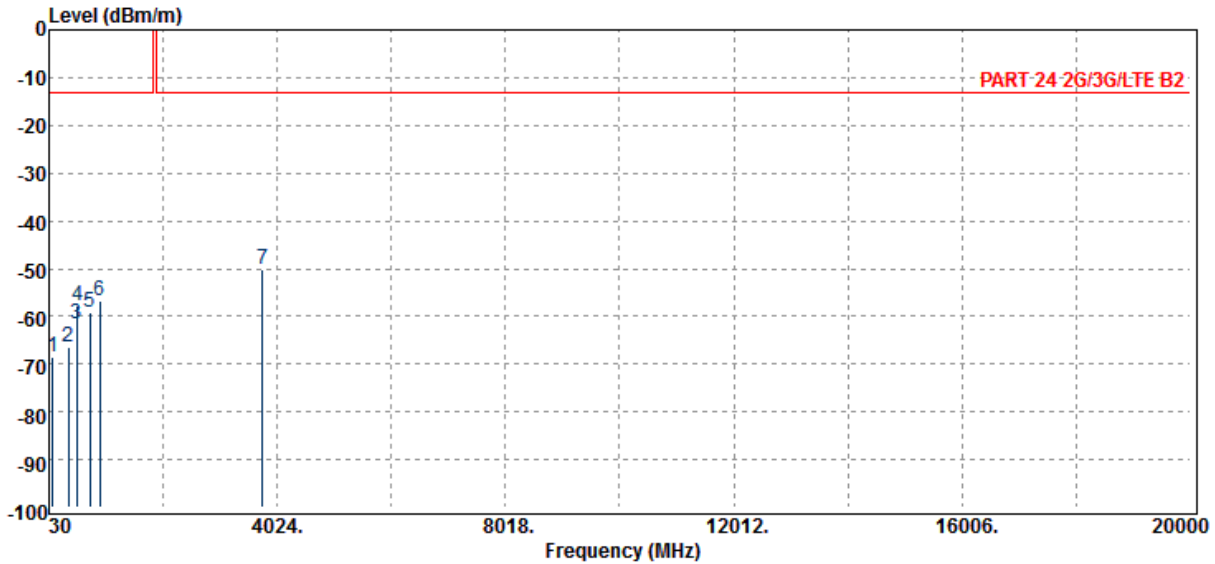
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Operation Band	:LTE B2	Temp./Humi.	:23 deg_C / 62 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
95.96	S	-68.42	-68.18	0.99	-1.23	-13.00	-55.42
367.56	S	-66.53	-70.34	6.00	-2.18	-13.00	-53.53
508.21	S	-61.66	-65.29	5.96	-2.34	-13.00	-48.66
532.46	S	-57.92	-61.22	5.83	-2.52	-13.00	-44.92
749.74	S	-59.19	-61.44	5.33	-3.08	-13.00	-46.19
925.31	S	-56.91	-58.94	5.30	-3.26	-13.00	-43.91
3760.00	H	-50.34	-56.20	12.45	-6.60	-13.00	-37.34

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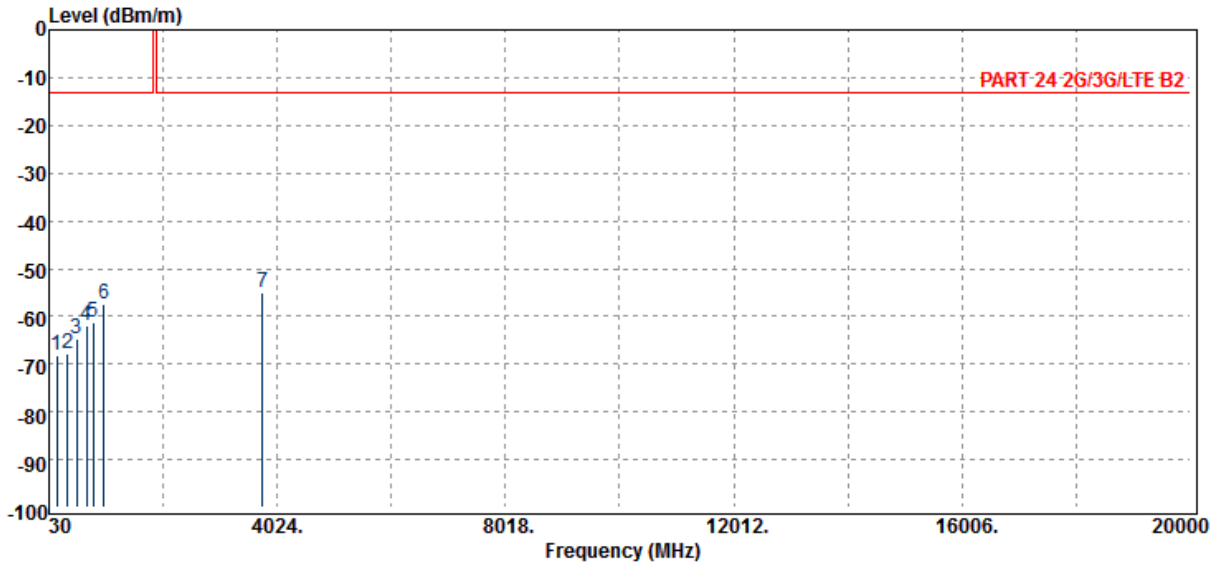
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Operation Band	:LTE B2	Temp./Humi.	:23 deg_C / 62 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
170.65	S	-68.29	-68.12	1.36	-1.52	-13.00	-55.29
361.74	S	-67.72	-71.59	6.00	-2.14	-13.00	-54.72
512.09	S	-64.63	-68.22	5.94	-2.35	-13.00	-51.63
694.45	S	-61.99	-64.35	5.24	-2.88	-13.00	-48.99
806.00	S	-61.36	-63.95	5.48	-2.89	-13.00	-48.36
988.36	S	-57.54	-60.28	5.97	-3.23	-13.00	-44.54
3760.00	H	-55.06	-60.91	12.45	-6.60	-13.00	-42.06

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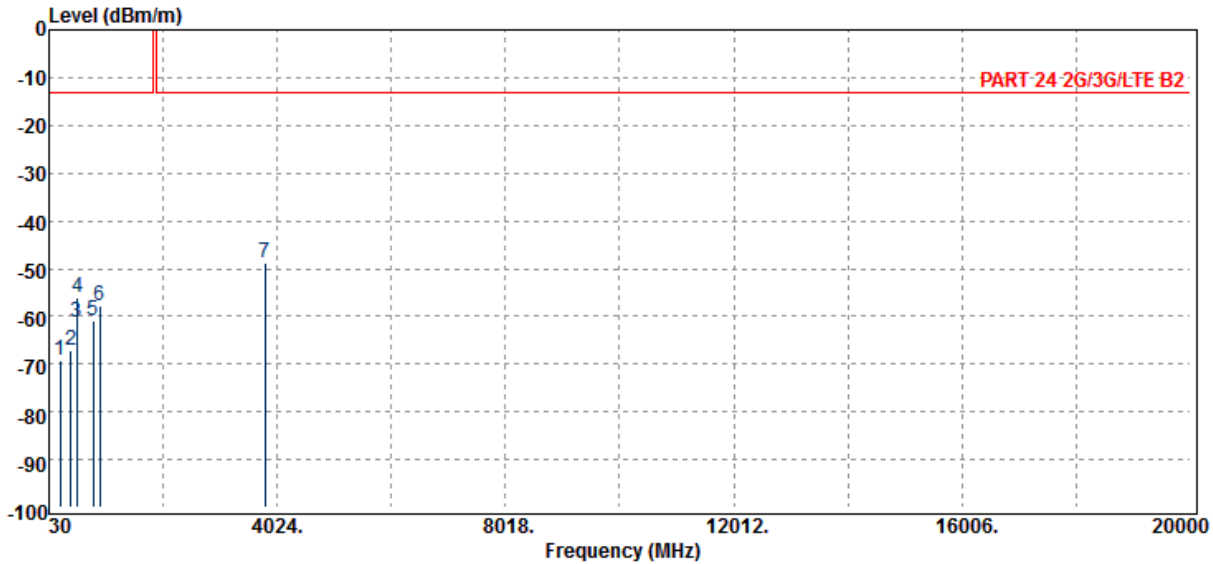
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Operation Band	:LTE B2	Temp./Humi.	:23 deg_C / 62 RH
Fundamental Frequency	:1905.0 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
221.09	S	-69.04	-72.79	5.45	-1.71	-13.00	-56.04
413.15	S	-67.01	-70.55	5.92	-2.38	-13.00	-54.01
513.06	S	-61.14	-64.72	5.94	-2.35	-13.00	-48.14
532.46	S	-56.15	-59.46	5.83	-2.52	-13.00	-43.15
804.06	S	-60.99	-63.58	5.49	-2.90	-13.00	-47.99
922.40	S	-57.66	-59.71	5.31	-3.26	-13.00	-44.66
3810.00	H	-48.92	-54.77	12.46	-6.62	-13.00	-35.92

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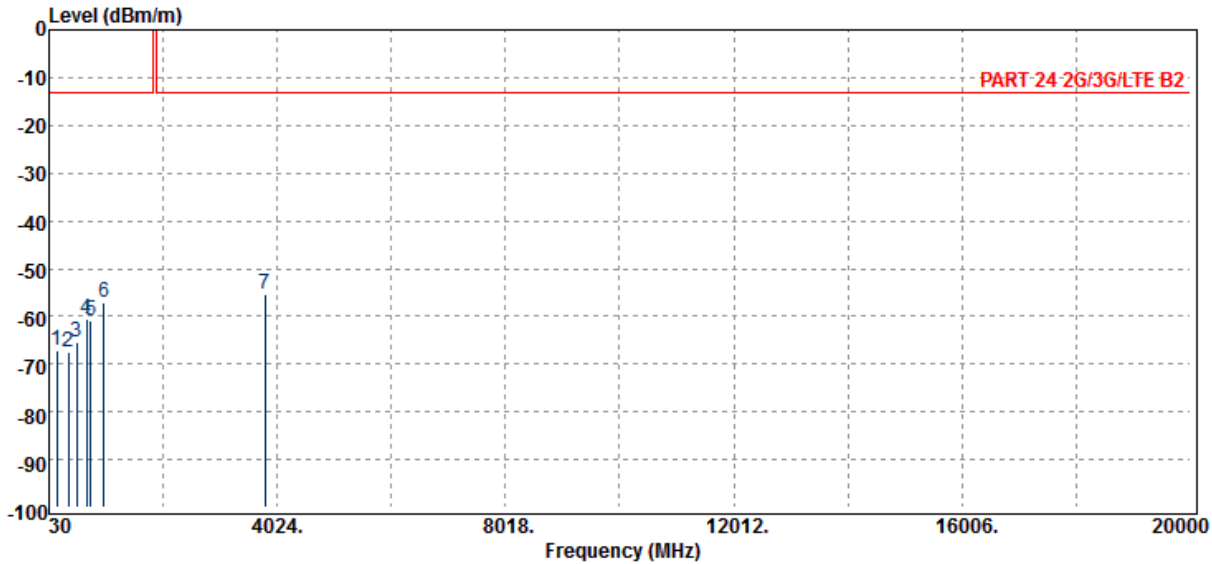
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Operation Band	:LTE B2	Temp./Humi.	:23 deg_C / 62 RH
Fundamental Frequency	:1905.0 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
160.95	S	-67.21	-66.32	0.58	-1.48	-13.00	-54.21
362.71	S	-67.57	-71.43	6.00	-2.15	-13.00	-54.57
513.06	S	-65.40	-68.98	5.94	-2.35	-13.00	-52.40
691.54	S	-60.43	-62.84	5.24	-2.83	-13.00	-47.43
757.50	S	-60.98	-63.31	5.36	-3.03	-13.00	-47.98
990.30	S	-57.12	-59.89	6.01	-3.24	-13.00	-44.12
3810.00	H	-55.35	-61.19	12.46	-6.62	-13.00	-42.35

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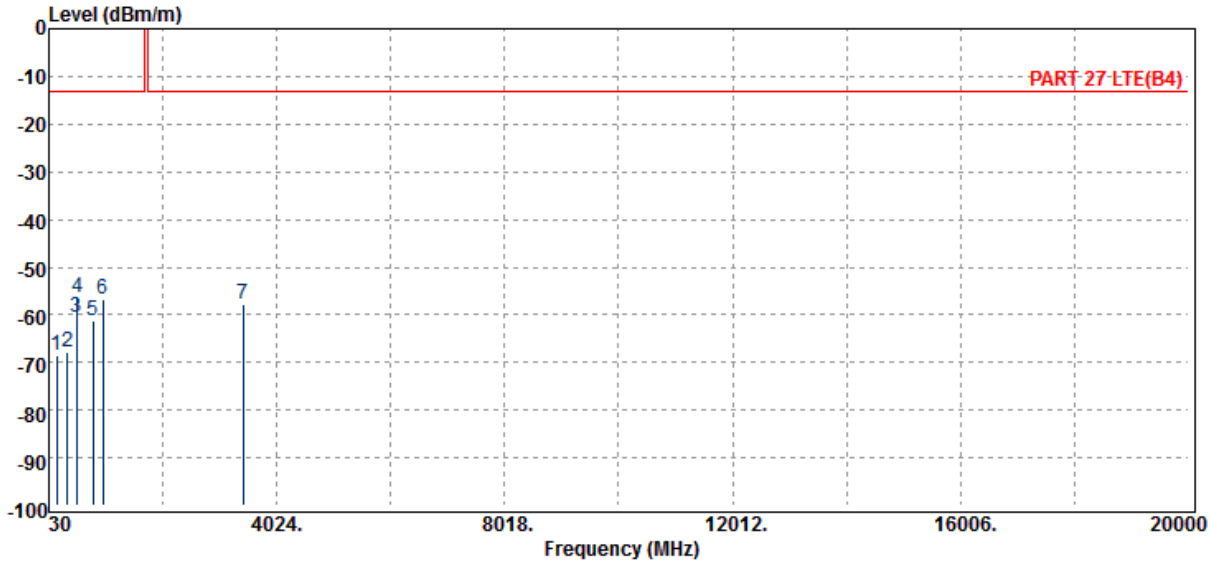
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### Radiated Spurious Emission Measurement Result: LTE-Band 4 (The Worst Case)

Operation Band	:LTE B4	Temp./Humi.	:23 deg_C / 62 RH
Fundamental Frequency	:1715 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
165.80	S	-68.39	-67.82	0.94	-1.50	-13.00	-55.39
348.16	S	-67.70	-71.67	6.00	-2.03	-13.00	-54.70
513.06	S	-60.63	-64.21	5.94	-2.35	-13.00	-47.63
531.49	S	-56.42	-59.74	5.84	-2.51	-13.00	-43.42
798.24	S	-61.09	-63.68	5.49	-2.90	-13.00	-48.09
980.60	S	-56.76	-59.37	5.81	-3.20	-13.00	-43.76
3430.00	H	-57.77	-63.82	12.28	-6.23	-13.00	-44.77

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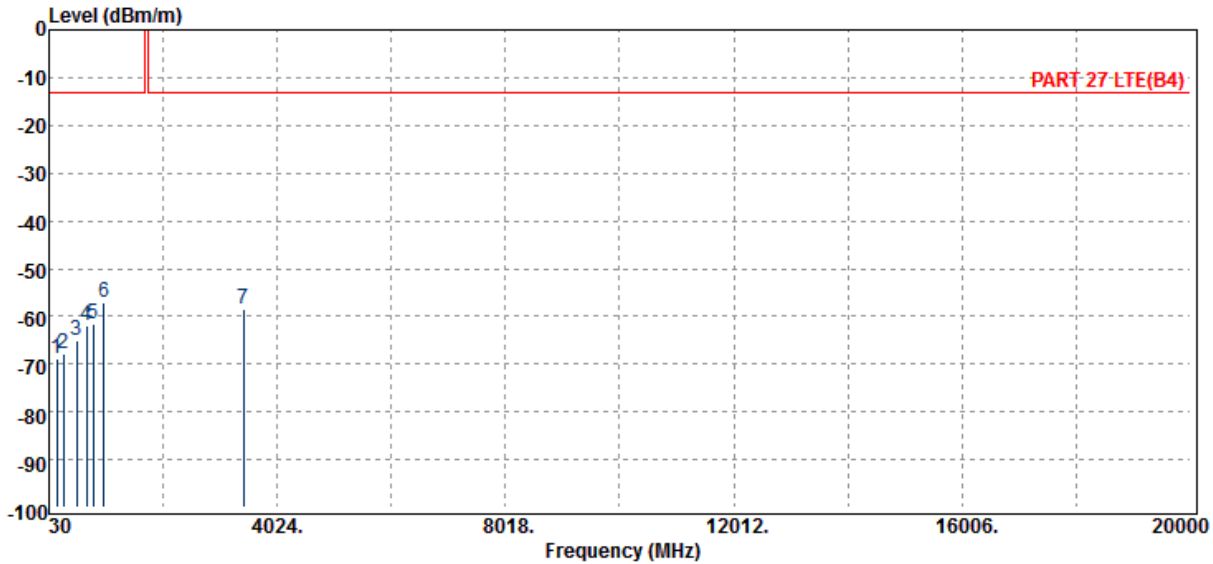
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Operation Band	:LTE B4	Temp./Humi.	:23 deg_C / 62 RH
Fundamental Frequency	:1715 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
173.56	S	-68.78	-69.14	1.89	-1.53	-13.00	-55.78
280.26	S	-67.66	-71.36	5.57	-1.88	-13.00	-54.66
515.00	S	-65.09	-68.66	5.92	-2.36	-13.00	-52.09
687.66	S	-61.94	-64.43	5.25	-2.76	-13.00	-48.94
803.09	S	-61.49	-64.08	5.49	-2.90	-13.00	-48.49
987.39	S	-56.96	-59.69	5.95	-3.23	-13.00	-43.96
3430.00	H	-58.37	-64.42	12.28	-6.23	-13.00	-45.37

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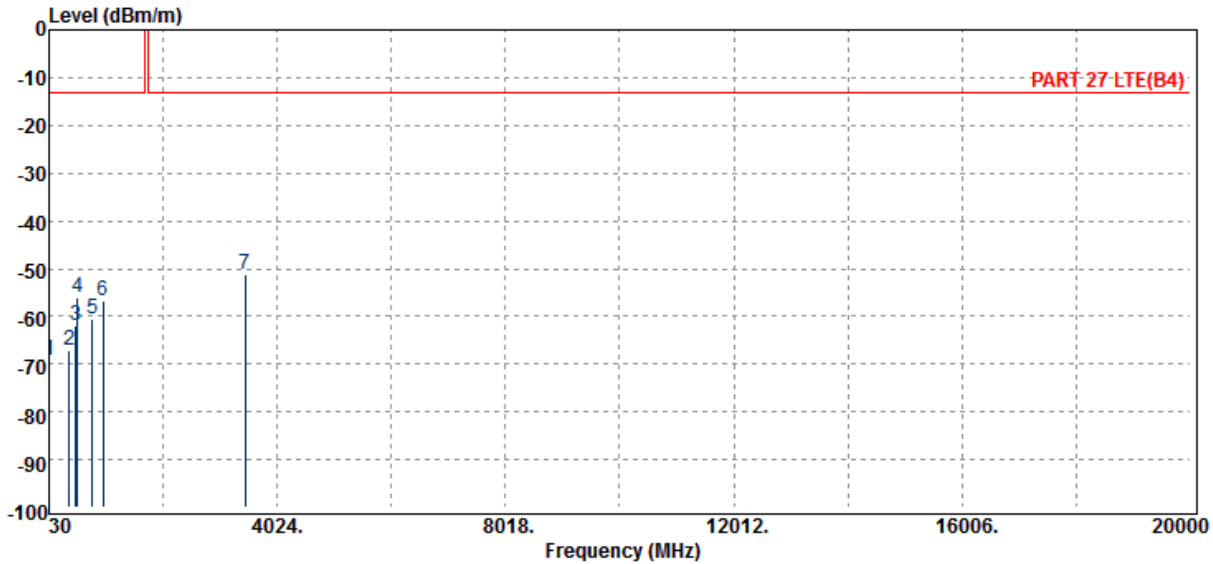
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Operation Band	:LTE B4	Temp./Humi.	:23 deg_C / 62 RH
Fundamental Frequency	:1732.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	S	-69.18	-55.60	-12.63	-0.96	-13.00	-56.18
390.84	S	-67.13	-70.79	5.98	-2.33	-13.00	-54.13
505.30	S	-61.82	-65.47	5.98	-2.33	-13.00	-48.82
531.49	S	-56.06	-59.38	5.84	-2.51	-13.00	-43.06
786.60	S	-60.60	-63.15	5.45	-2.90	-13.00	-47.60
975.75	S	-56.61	-59.14	5.71	-3.18	-13.00	-43.61
3465.00	H	-51.30	-57.40	12.34	-6.25	-13.00	-38.30

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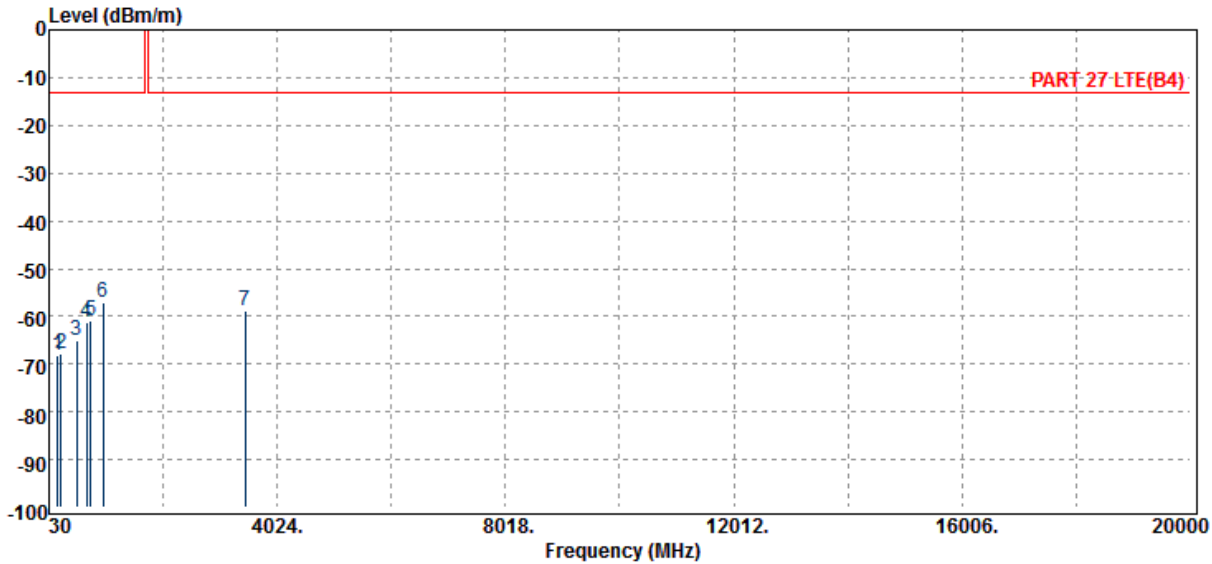
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Operation Band	:LTE B4	Temp./Humi.	:23 deg_C / 62 RH
Fundamental Frequency	:1732.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
180.35	S	-68.22	-69.76	3.10	-1.56	-13.00	-55.22
235.64	S	-67.93	-71.56	5.36	-1.73	-13.00	-54.93
515.00	S	-64.89	-68.46	5.92	-2.36	-13.00	-51.89
687.66	S	-61.11	-63.60	5.25	-2.76	-13.00	-48.11
757.50	S	-60.96	-63.29	5.36	-3.03	-13.00	-47.96
977.69	S	-57.24	-59.80	5.75	-3.19	-13.00	-44.24
3465.00	H	-58.88	-64.97	12.34	-6.25	-13.00	-45.88

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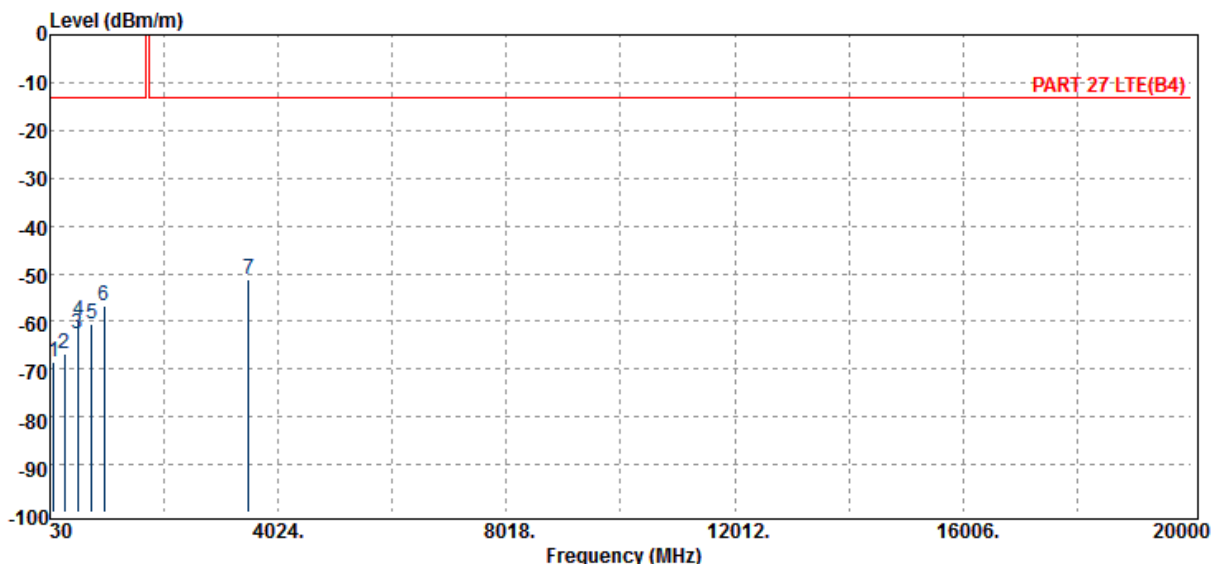
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Operation Band	:LTE B4	Temp./Humi.	:23 deg_C / 62 RH
Fundamental Frequency	:1750 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
93.05	S	-68.42	-68.54	1.34	-1.22	-13.00	-55.42
277.35	S	-66.84	-70.57	5.60	-1.86	-13.00	-53.84
508.21	S	-62.48	-66.11	5.96	-2.34	-13.00	-49.48
532.46	S	-59.93	-63.23	5.83	-2.52	-13.00	-46.93
757.50	S	-60.71	-63.03	5.36	-3.03	-13.00	-47.71
980.60	S	-56.62	-59.23	5.81	-3.20	-13.00	-43.62
3500.00	H	-51.06	-57.03	12.40	-6.43	-13.00	-38.06

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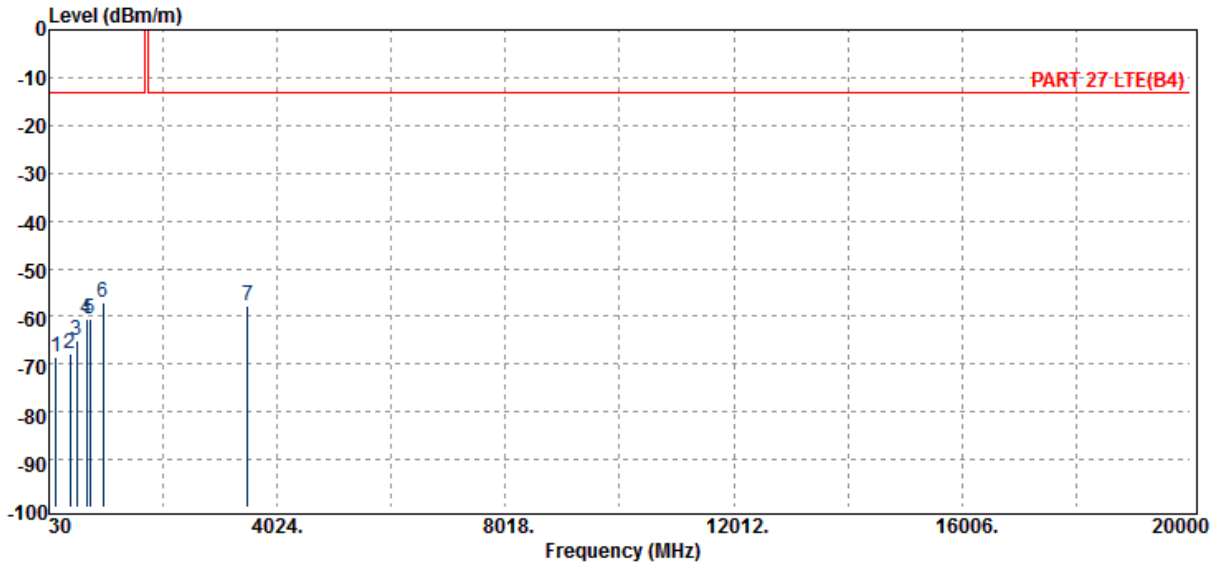
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Operation Band	:LTE B4	Temp./Humi.	:23 deg_C / 62 RH
Fundamental Frequency	:1750 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



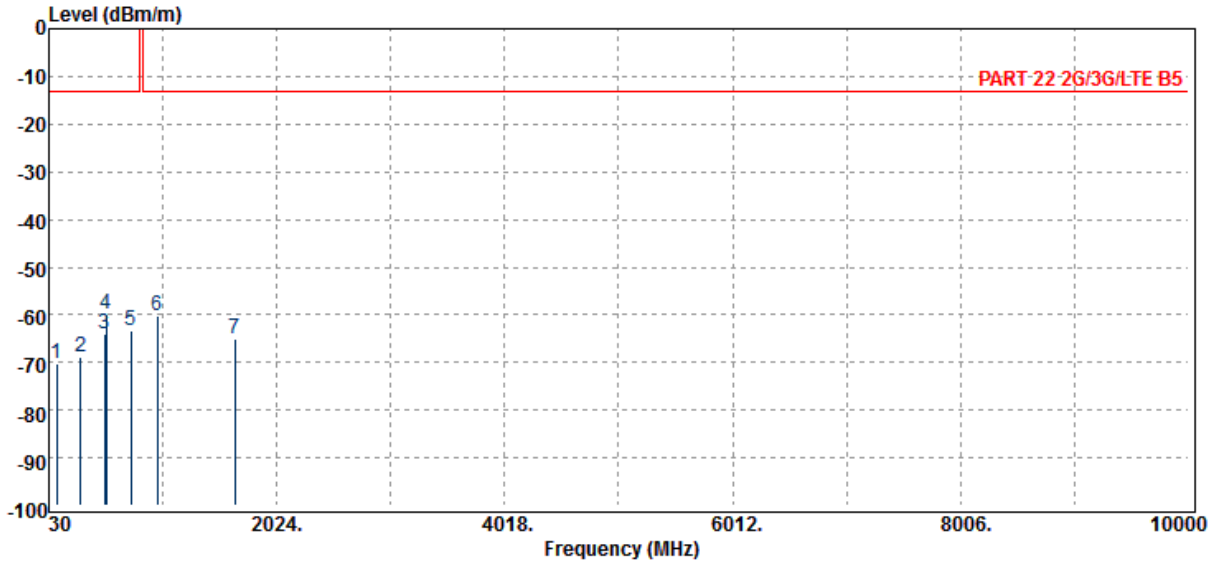
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
154.16	S	-68.62	-67.42	0.25	-1.45	-13.00	-55.62
396.66	S	-67.66	-71.27	5.97	-2.36	-13.00	-54.66
515.00	S	-65.22	-68.79	5.92	-2.36	-13.00	-52.22
689.60	S	-60.44	-62.89	5.24	-2.79	-13.00	-47.44
741.01	S	-60.51	-62.69	5.31	-3.13	-13.00	-47.51
970.90	S	-57.05	-59.50	5.62	-3.16	-13.00	-44.05
3500.00	H	-57.64	-63.61	12.40	-6.43	-13.00	-44.64

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

Operation Band	:LTE B5	Temp./Humi.	:21 deg_C / 62 RH
Fundamental Frequency	:829.0 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



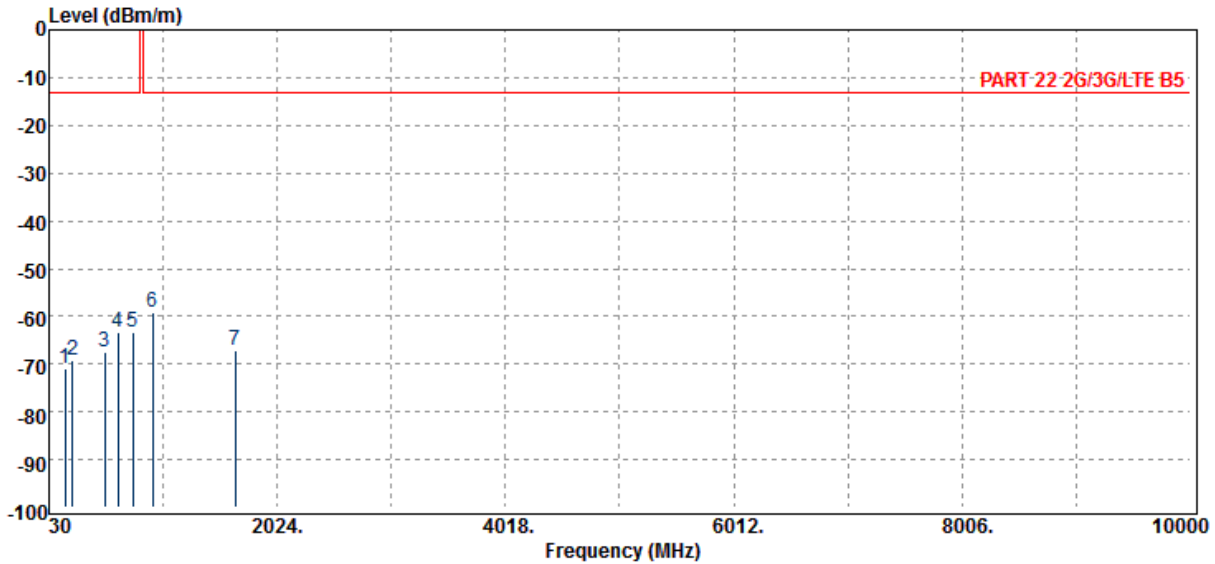
Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
94.99	S	-70.23	-67.96	-1.04	-1.23	-13.00	-57.23
308.39	S	-68.87	-70.60	3.67	-1.94	-13.00	-55.87
515.00	S	-64.01	-65.43	3.77	-2.36	-13.00	-51.01
532.46	S	-59.93	-61.09	3.68	-2.52	-13.00	-46.93
747.80	S	-63.21	-63.30	3.18	-3.09	-13.00	-50.21
975.75	S	-60.27	-60.66	3.56	-3.18	-13.00	-47.27
1658.00	H	-64.94	-67.82	7.14	-4.26	-13.00	-51.94

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Operation Band	:LTE B5	Temp./Humi.	:21 deg_C / 62 RH
Fundamental Frequency	:829.0 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
173.56	S	-70.86	-69.07	-0.26	-1.53	-13.00	-57.86
235.64	S	-69.14	-70.62	3.21	-1.73	-13.00	-56.14
515.97	S	-67.55	-68.96	3.77	-2.36	-13.00	-54.55
631.40	S	-63.29	-64.00	3.18	-2.46	-13.00	-50.29
764.29	S	-63.29	-63.53	3.23	-2.99	-13.00	-50.29
936.95	S	-59.13	-59.00	3.09	-3.22	-13.00	-46.13
1658.00	H	-67.25	-70.13	7.14	-4.26	-13.00	-54.25

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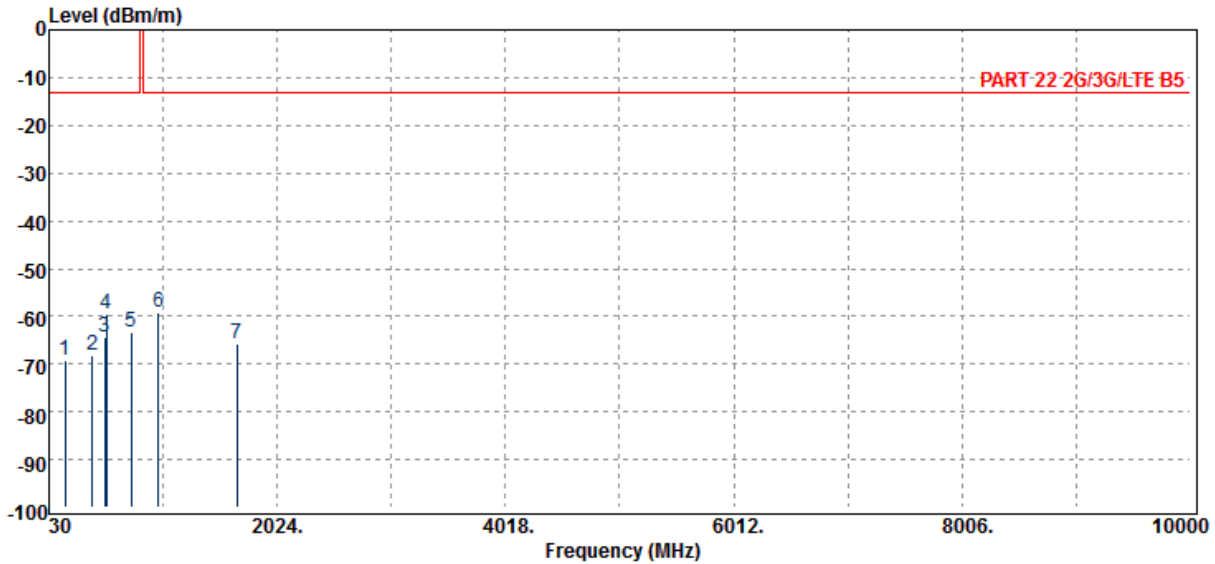
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Operation Band	:LTE B5	Temp./Humi.	:21 deg_C / 62 RH
Fundamental Frequency	:836.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
172.59	S	-69.25	-67.29	-0.44	-1.53	-13.00	-56.25
410.24	S	-68.14	-69.52	3.78	-2.40	-13.00	-55.14
515.97	S	-64.41	-65.82	3.77	-2.36	-13.00	-51.41
532.46	S	-59.52	-60.68	3.68	-2.52	-13.00	-46.52
750.71	S	-63.16	-63.27	3.18	-3.07	-13.00	-50.16
982.54	S	-59.14	-59.64	3.70	-3.21	-13.00	-46.14
1673.00	H	-65.82	-68.73	7.20	-4.29	-13.00	-52.82

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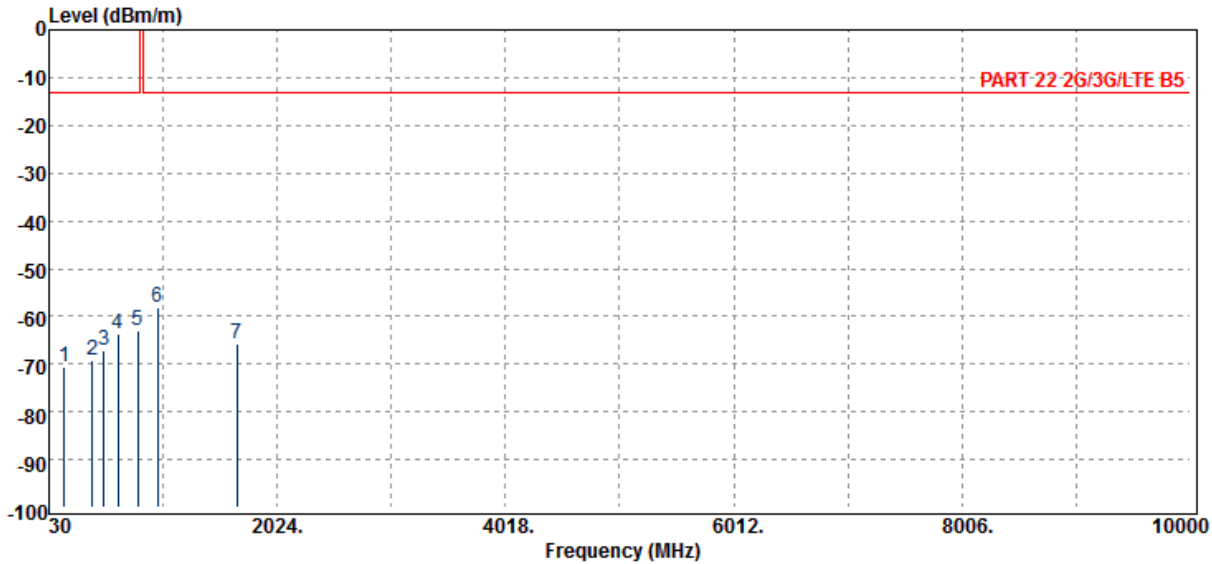
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Operation Band	:LTE B5	Temp./Humi.	:21 deg_C / 62 RH
Fundamental Frequency	:836.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
160.95	S	-70.51	-67.47	-1.57	-1.48	-13.00	-57.51
410.24	S	-69.23	-70.62	3.78	-2.40	-13.00	-56.23
513.06	S	-67.14	-68.58	3.79	-2.35	-13.00	-54.14
633.34	S	-63.69	-64.40	3.17	-2.46	-13.00	-50.69
806.00	S	-62.95	-63.39	3.33	-2.89	-13.00	-49.95
977.69	S	-58.00	-58.41	3.60	-3.19	-13.00	-45.00
1673.00	H	-65.89	-68.79	7.20	-4.29	-13.00	-52.89

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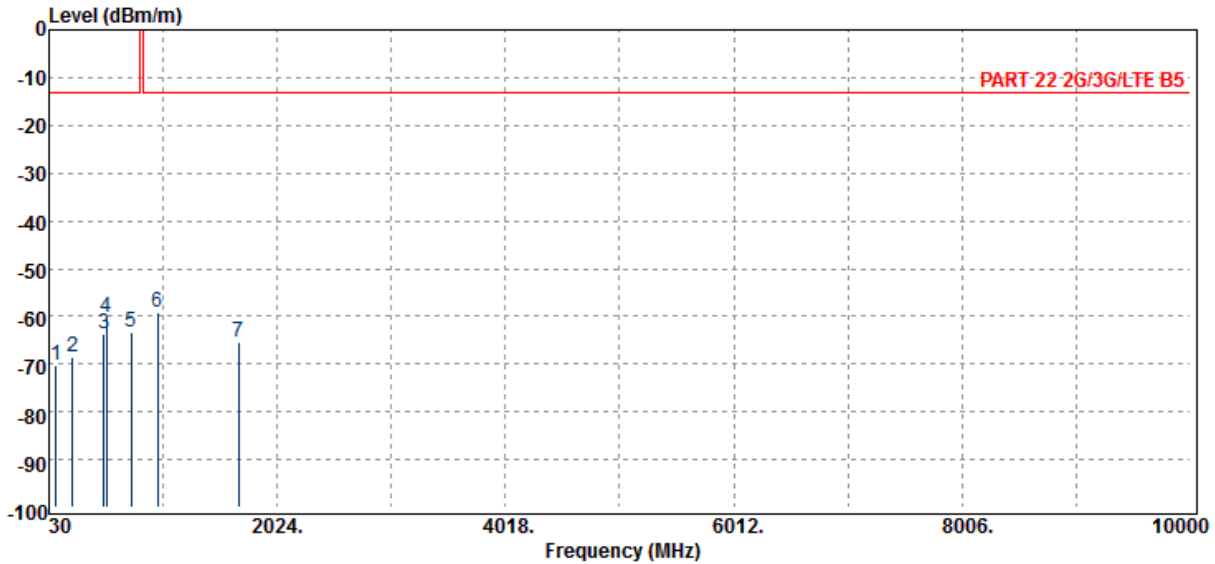
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Operation Band	:LTE B5	Temp./Humi.	:21 deg_C / 62 RH
Fundamental Frequency	:844.0 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
93.05	S	-70.28	-68.25	-0.81	-1.22	-13.00	-57.28
236.61	S	-68.59	-70.09	3.23	-1.73	-13.00	-55.59
513.06	S	-63.80	-65.23	3.79	-2.35	-13.00	-50.80
531.49	S	-60.33	-61.51	3.69	-2.51	-13.00	-47.33
744.89	S	-63.32	-63.38	3.17	-3.11	-13.00	-50.32
975.75	S	-59.10	-59.48	3.56	-3.18	-13.00	-46.10
1688.00	H	-65.33	-68.28	7.25	-4.30	-13.00	-52.33

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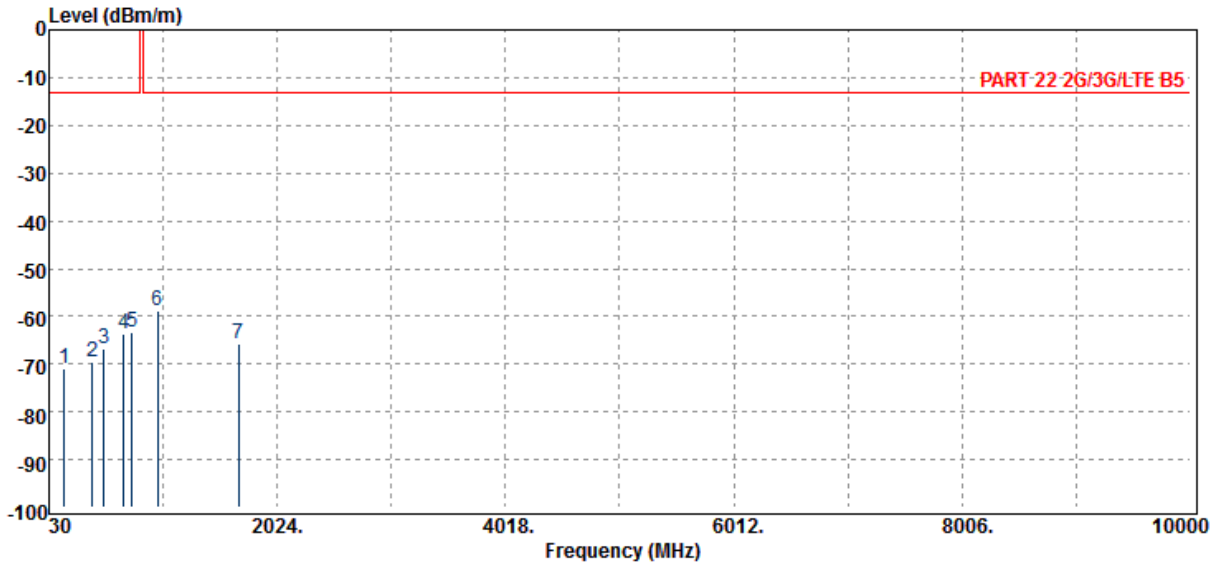
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Operation Band	:LTE B5	Temp./Humi.	:21 deg_C / 62 RH
Fundamental Frequency	:844.0 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
160.95	S	-70.92	-67.87	-1.57	-1.48	-13.00	-57.92
405.39	S	-69.42	-70.81	3.80	-2.41	-13.00	-56.42
513.06	S	-66.81	-68.25	3.79	-2.35	-13.00	-53.81
682.81	S	-63.68	-64.11	3.10	-2.67	-13.00	-50.68
754.59	S	-63.28	-63.43	3.20	-3.05	-13.00	-50.28
980.60	S	-58.81	-59.27	3.66	-3.20	-13.00	-45.81
1688.00	H	-65.66	-68.61	7.25	-4.30	-13.00	-52.66

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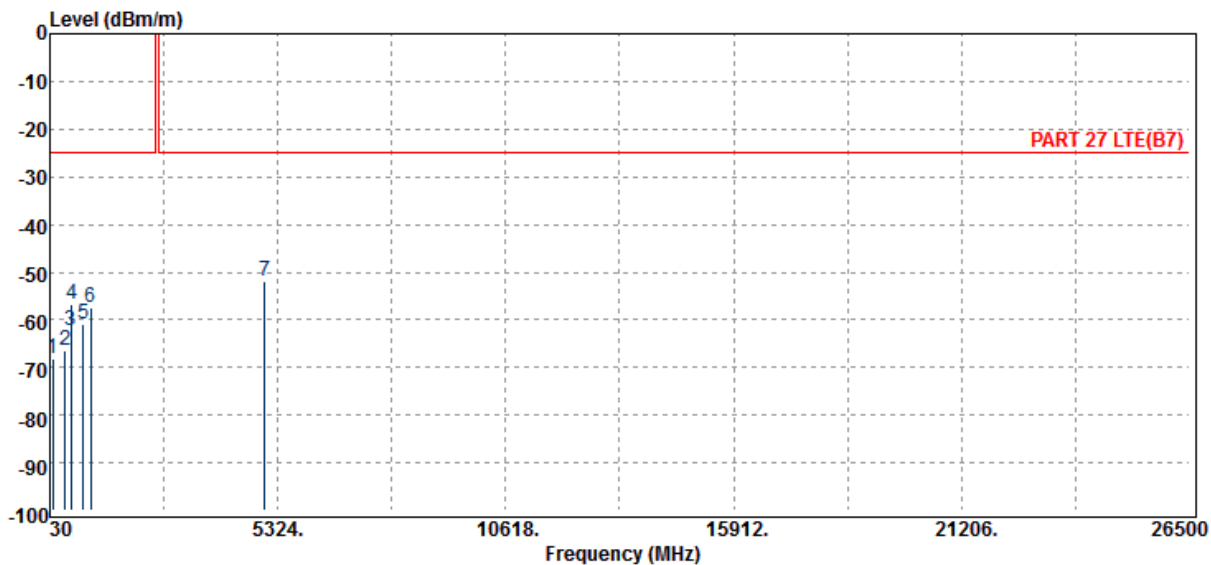
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### Radiated Spurious Emission Measurement Result: LTE-Band 7 (The Worst Case)

Operation Band	:LTE B7	Temp./Humi.	:21 deg_C / 62 RH
Fundamental Frequency	:2510 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
93.05	S	-68.20	-68.32	1.34	-1.22	-25.00	-43.20
381.14	S	-66.54	-70.26	5.99	-2.27	-25.00	-41.54
515.97	S	-62.35	-65.91	5.92	-2.36	-25.00	-37.35
531.49	S	-56.70	-60.02	5.84	-2.51	-25.00	-31.70
799.21	S	-60.82	-63.41	5.49	-2.90	-25.00	-35.82
980.60	S	-57.38	-59.99	5.81	-3.20	-25.00	-32.38
5020.00	H	-52.05	-56.95	12.71	-7.81	-25.00	-27.05

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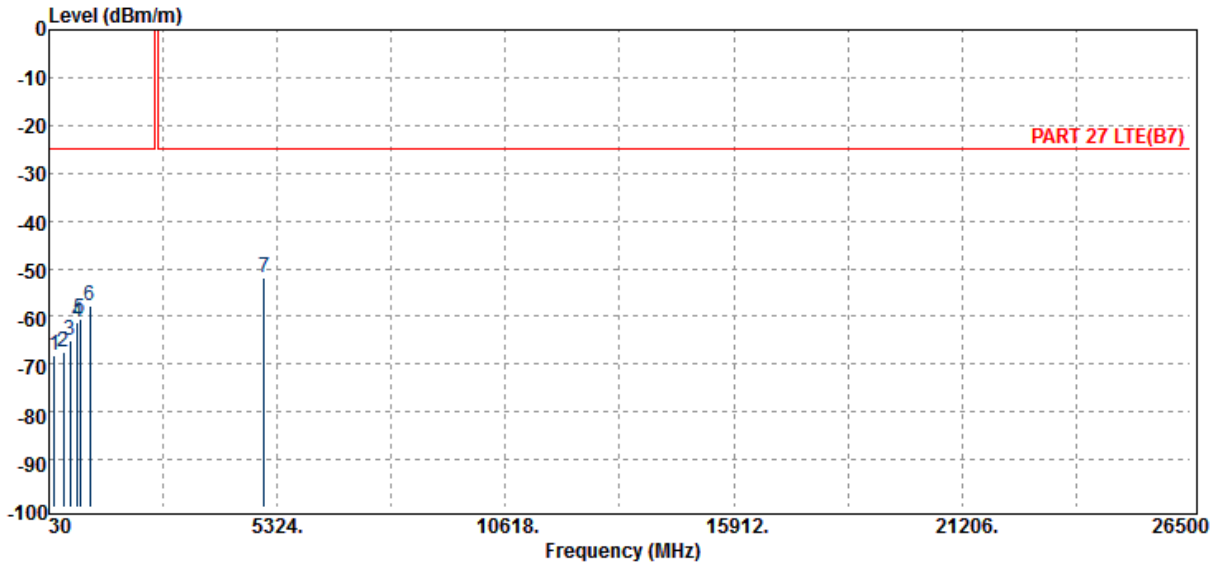
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Operation Band	:LTE B7	Temp./Humi.	:21 deg_C / 62 RH
Fundamental Frequency	:2510 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
160.95	S	-68.13	-67.23	0.58	-1.48	-25.00	-43.13
374.35	S	-67.57	-71.34	5.99	-2.23	-25.00	-42.57
513.06	S	-65.07	-68.65	5.94	-2.35	-25.00	-40.07
697.36	S	-61.25	-63.56	5.23	-2.93	-25.00	-36.25
750.71	S	-60.61	-62.87	5.33	-3.07	-25.00	-35.61
978.66	S	-57.76	-60.34	5.77	-3.19	-25.00	-32.76
5020.00	H	-51.79	-56.69	12.71	-7.81	-25.00	-26.79

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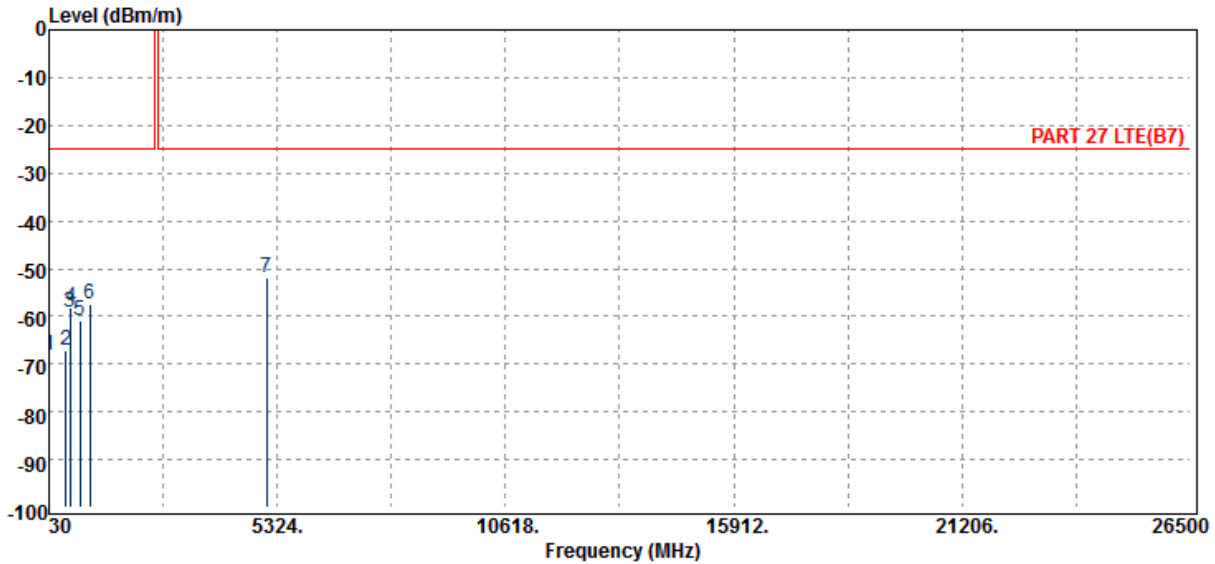
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Operation Band	:LTE B7	Temp./Humi.	:21 deg_C / 62 RH
Fundamental Frequency	:2535 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



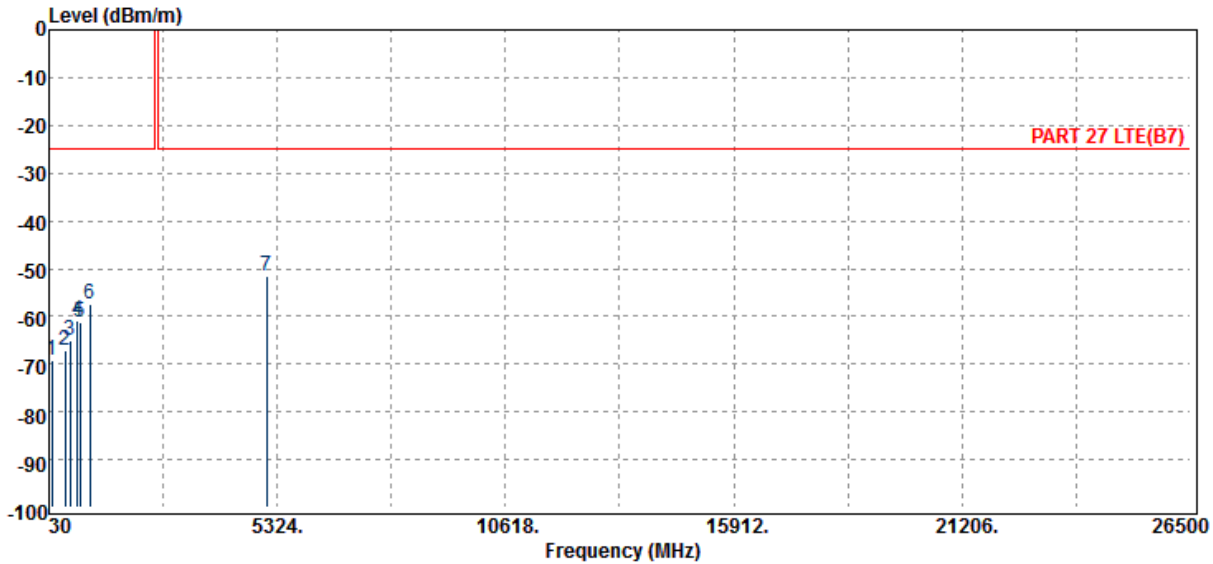
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	S	-68.21	-54.63	-12.63	-0.96	-25.00	-43.21
418.00	S	-67.01	-70.57	5.91	-2.35	-25.00	-42.01
513.06	S	-59.09	-62.67	5.94	-2.35	-25.00	-34.09
532.46	S	-57.96	-61.27	5.83	-2.52	-25.00	-32.96
754.59	S	-60.94	-63.24	5.35	-3.05	-25.00	-35.94
978.66	S	-57.43	-60.01	5.77	-3.19	-25.00	-32.43
5070.00	H	-51.86	-56.73	12.73	-7.86	-25.00	-26.86

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Operation Band	:LTE B7	Temp./Humi.	:21 deg_C / 62 RH
Fundamental Frequency	:2535 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
94.99	S	-69.30	-69.18	1.11	-1.23	-25.00	-44.30
398.60	S	-67.22	-70.82	5.97	-2.37	-25.00	-42.22
515.00	S	-65.11	-68.68	5.92	-2.36	-25.00	-40.11
699.30	S	-60.84	-63.11	5.23	-2.96	-25.00	-35.84
744.89	S	-61.14	-63.35	5.32	-3.11	-25.00	-36.14
977.69	S	-57.42	-59.98	5.75	-3.19	-25.00	-32.42
5070.00	H	-51.40	-56.27	12.73	-7.86	-25.00	-26.40

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Operation Band	:LTE B7	Temp./Humi.	:21 deg_C / 62 RH
Fundamental Frequency	:2560 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
183.26	S	-66.95	-68.97	3.59	-1.57	-25.00	-41.95
410.24	S	-67.64	-71.18	5.93	-2.40	-25.00	-42.64
512.09	S	-61.15	-64.74	5.94	-2.35	-25.00	-36.15
531.49	S	-56.17	-59.49	5.84	-2.51	-25.00	-31.17
750.71	S	-61.05	-63.31	5.33	-3.07	-25.00	-36.05
967.99	S	-57.42	-59.83	5.56	-3.15	-25.00	-32.42
5120.00	H	-51.59	-56.44	12.75	-7.90	-25.00	-26.59

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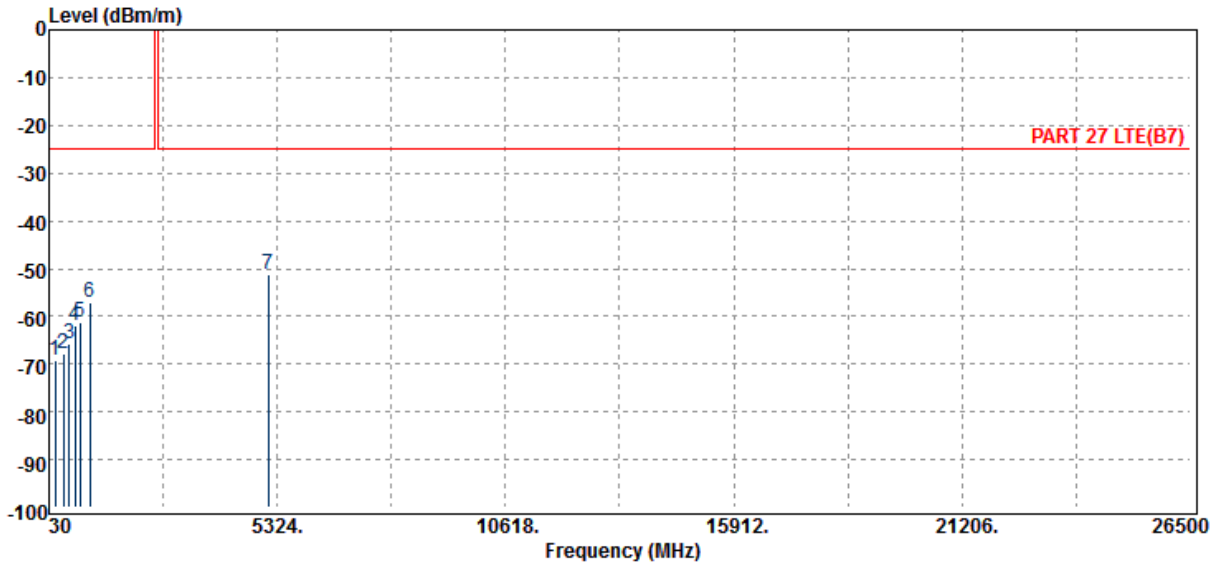
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Operation Band	:LTE B7	Temp./Humi.	:21 deg_C / 62 RH
Fundamental Frequency	:2560 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
182.29	S	-69.35	-71.21	3.43	-1.57	-25.00	-44.35
369.50	S	-67.99	-71.79	6.00	-2.20	-25.00	-42.99
502.39	S	-65.63	-69.30	6.00	-2.32	-25.00	-40.63
634.31	S	-61.83	-64.70	5.32	-2.45	-25.00	-36.83
755.56	S	-61.21	-63.52	5.35	-3.04	-25.00	-36.21
978.66	S	-57.26	-59.84	5.77	-3.19	-25.00	-32.26
5120.00	H	-51.38	-56.23	12.75	-7.90	-25.00	-26.38

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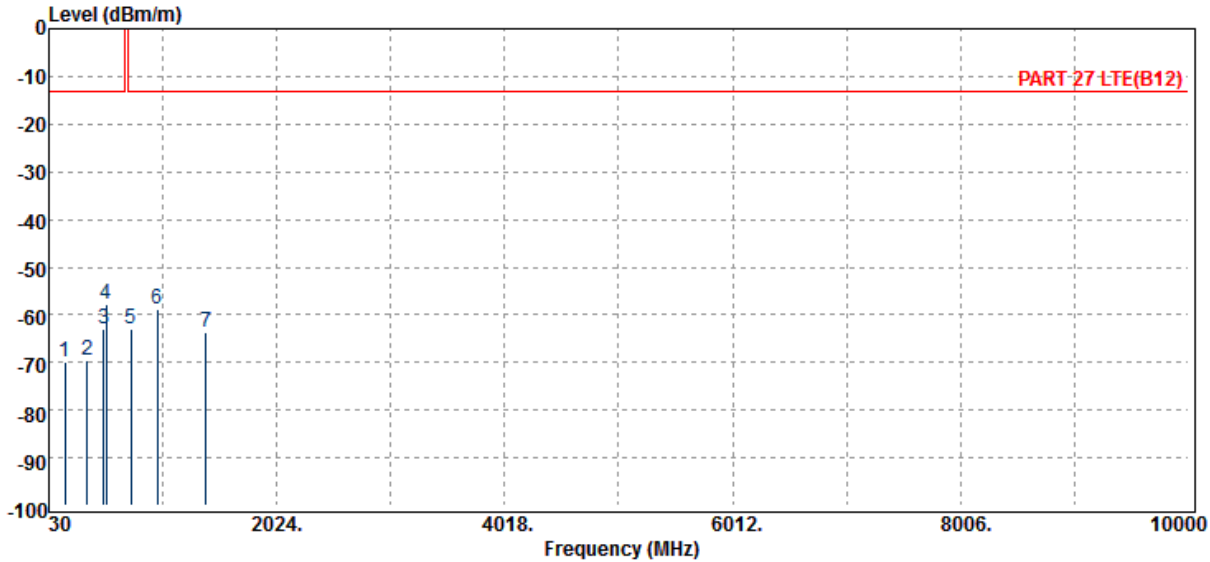
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### Radiated Spurious Emission Measurement Result: LTE-Band 12 (The Worst Case)

Operation Band	:LTE B12	Temp./Humi.	:21 deg_C / 62 RH
Fundamental Frequency	:701.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
170.65	S	-70.00	-67.68	-0.79	-1.52	-13.00	-57.00
364.65	S	-69.43	-71.12	3.85	-2.16	-13.00	-56.43
512.09	S	-62.99	-64.44	3.79	-2.35	-13.00	-49.99
531.49	S	-57.68	-58.85	3.69	-2.51	-13.00	-44.68
749.74	S	-62.86	-62.96	3.18	-3.08	-13.00	-49.86
978.66	S	-58.96	-59.39	3.62	-3.19	-13.00	-45.96
1403.00	H	-63.65	-65.89	6.14	-3.90	-13.00	-50.65

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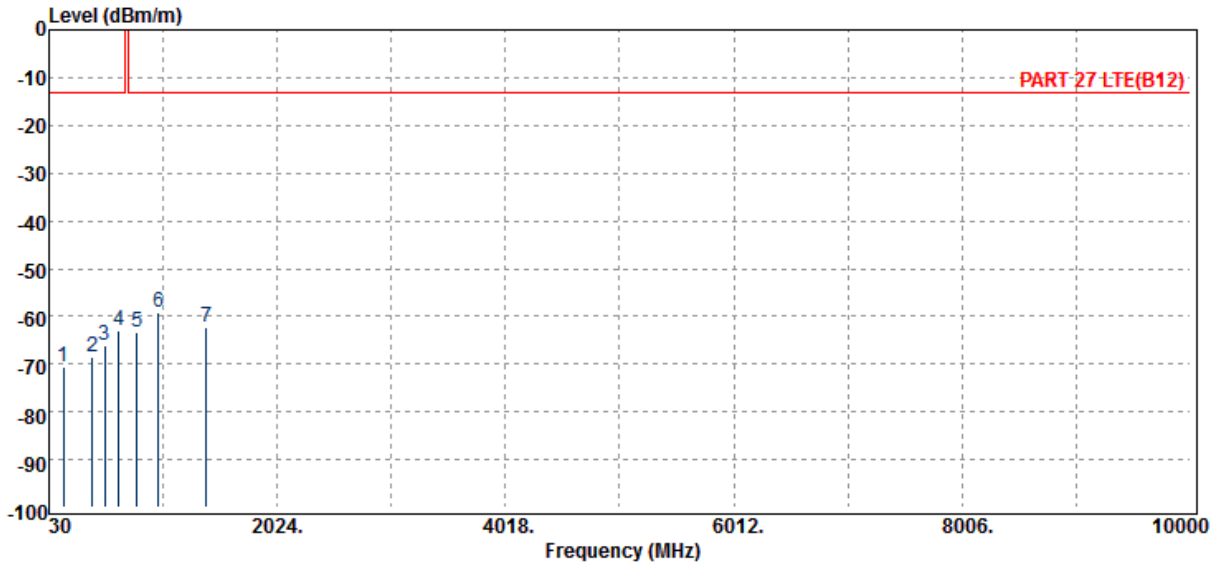
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Operation Band	:LTE B12	Temp./Humi.	:21 deg_C / 62 RH
Fundamental Frequency	:701.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
154.16	S	-70.46	-67.11	-1.90	-1.45	-13.00	-57.46
406.36	S	-68.35	-69.73	3.80	-2.42	-13.00	-55.35
515.00	S	-66.13	-67.54	3.77	-2.36	-13.00	-53.13
638.19	S	-63.11	-63.83	3.16	-2.44	-13.00	-50.11
798.24	S	-63.22	-63.66	3.34	-2.90	-13.00	-50.22
983.51	S	-59.15	-59.66	3.72	-3.21	-13.00	-46.15
1403.00	H	-62.45	-64.69	6.14	-3.90	-13.00	-49.45

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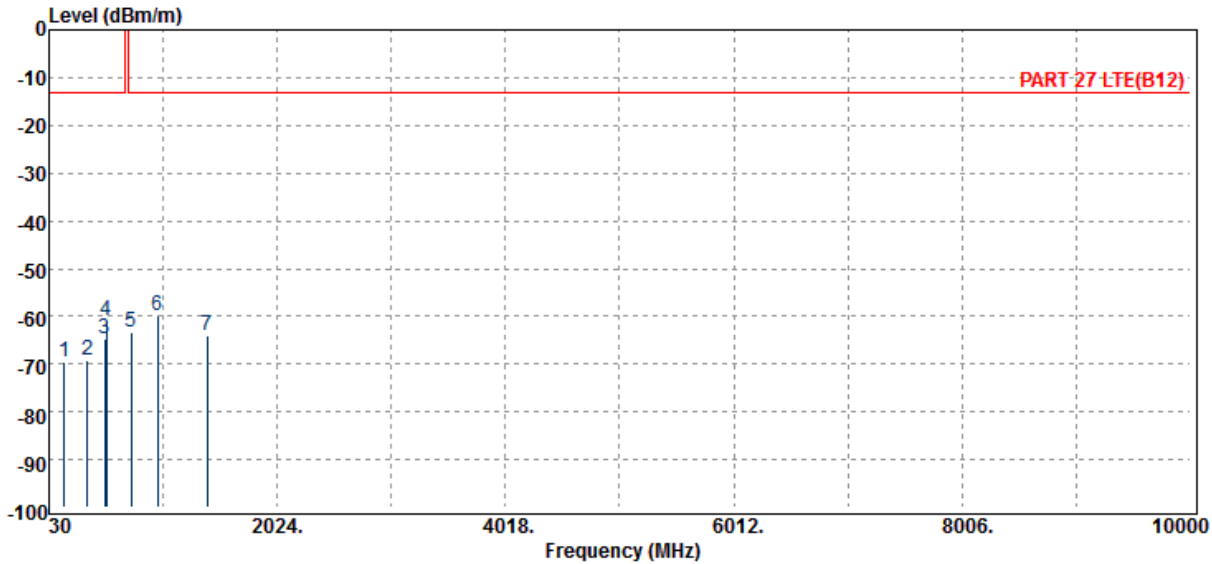
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Operation Band	:LTE B12	Temp./Humi.	:21 deg_C / 62 RH
Fundamental Frequency	:707.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
160.95	S	-69.65	-66.61	-1.57	-1.48	-13.00	-56.65
366.59	S	-69.32	-70.99	3.85	-2.17	-13.00	-56.32
515.00	S	-64.75	-66.17	3.77	-2.36	-13.00	-51.75
531.49	S	-60.79	-61.97	3.69	-2.51	-13.00	-47.79
750.71	S	-63.34	-63.45	3.18	-3.07	-13.00	-50.34
978.66	S	-60.00	-60.43	3.62	-3.19	-13.00	-47.00
1415.00	H	-64.09	-66.36	6.19	-3.91	-13.00	-51.09

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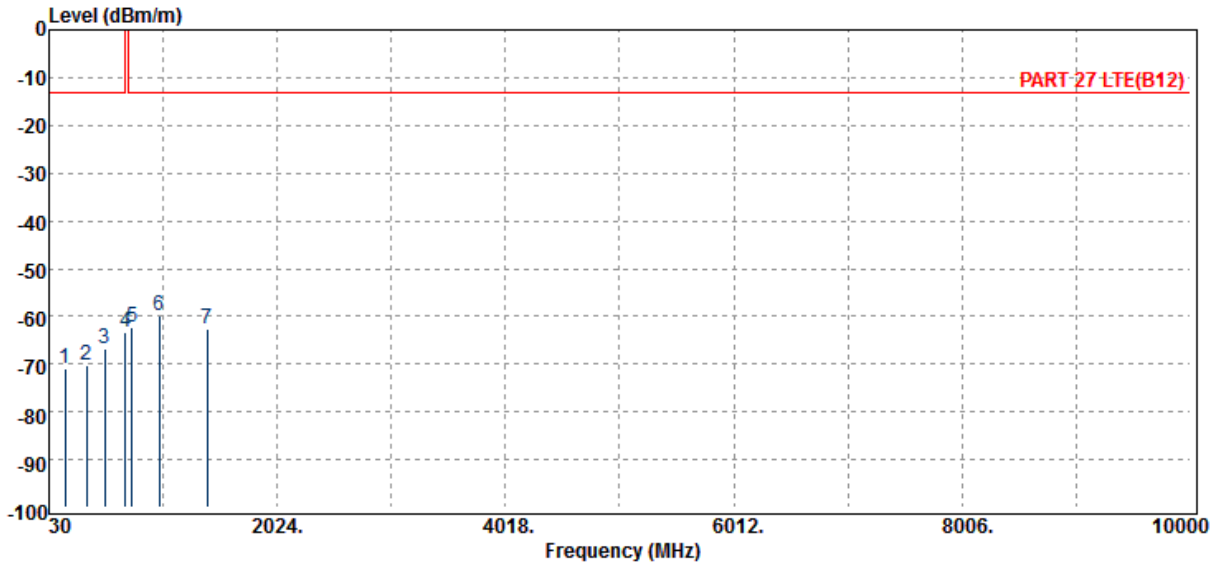
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Operation Band	:LTE B12	Temp./Humi.	:21 deg_C / 62 RH
Fundamental Frequency	:707.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
173.56	S	-70.90	-69.10	-0.26	-1.53	-13.00	-57.90
356.89	S	-70.16	-71.92	3.86	-2.10	-13.00	-57.16
515.00	S	-66.70	-68.11	3.77	-2.36	-13.00	-53.70
696.39	S	-63.40	-63.57	3.09	-2.91	-13.00	-50.40
752.65	S	-62.20	-62.33	3.19	-3.06	-13.00	-49.20
990.30	S	-59.74	-60.36	3.86	-3.24	-13.00	-46.74
1415.00	H	-62.50	-64.77	6.19	-3.91	-13.00	-49.50

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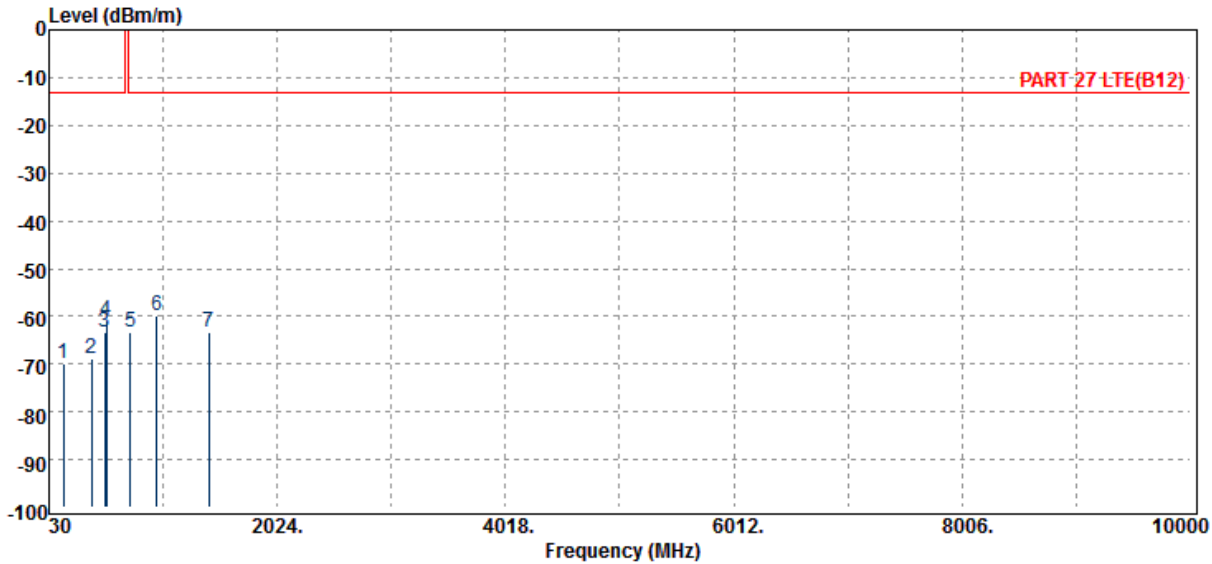
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Operation Band	:LTE B12	Temp./Humi.	:21 deg_C / 62 RH
Fundamental Frequency	:713.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
153.19	S	-69.90	-66.51	-1.95	-1.44	-13.00	-56.90
400.54	S	-68.70	-70.14	3.82	-2.38	-13.00	-55.70
515.00	S	-63.47	-64.88	3.77	-2.36	-13.00	-50.47
532.46	S	-60.76	-61.92	3.68	-2.52	-13.00	-47.76
742.95	S	-63.35	-63.40	3.17	-3.12	-13.00	-50.35
972.84	S	-59.99	-60.32	3.50	-3.17	-13.00	-46.99
1427.00	H	-63.48	-65.79	6.24	-3.93	-13.00	-50.48

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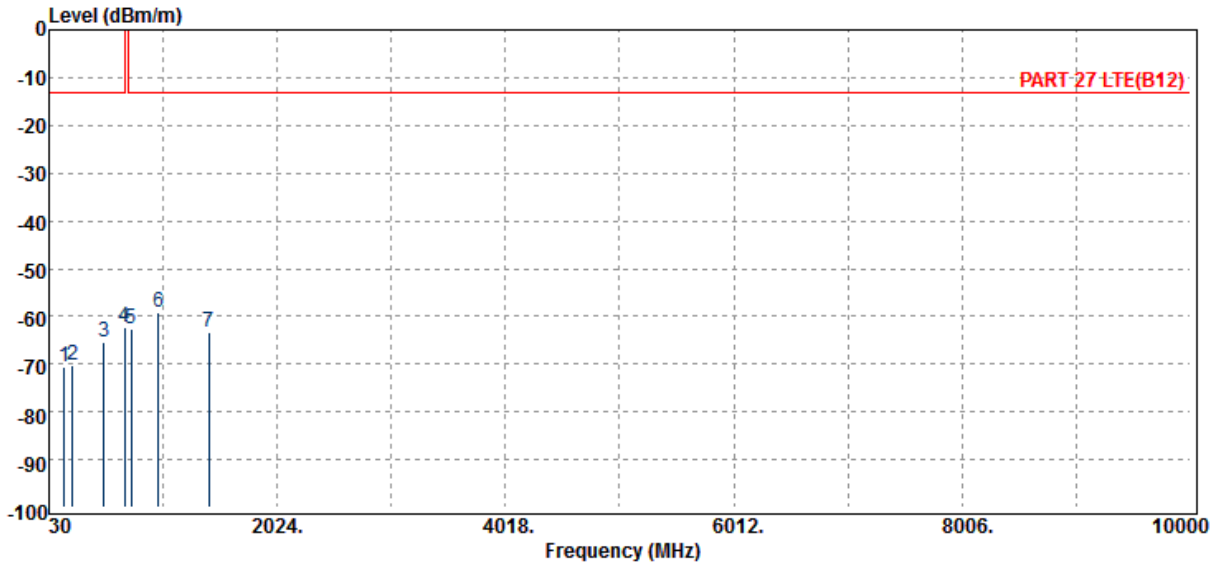
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Operation Band	:LTE B12	Temp./Humi.	:21 deg_C / 62 RH
Fundamental Frequency	:713.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
162.89	S	-70.68	-67.77	-1.42	-1.49	-13.00	-57.68
235.64	S	-70.10	-71.58	3.21	-1.73	-13.00	-57.10
512.09	S	-65.52	-66.96	3.79	-2.35	-13.00	-52.52
687.66	S	-62.18	-62.52	3.10	-2.76	-13.00	-49.18
744.89	S	-62.48	-62.54	3.17	-3.11	-13.00	-49.48
982.54	S	-59.05	-59.55	3.70	-3.21	-13.00	-46.05
1427.00	H	-63.19	-65.49	6.24	-3.93	-13.00	-50.19

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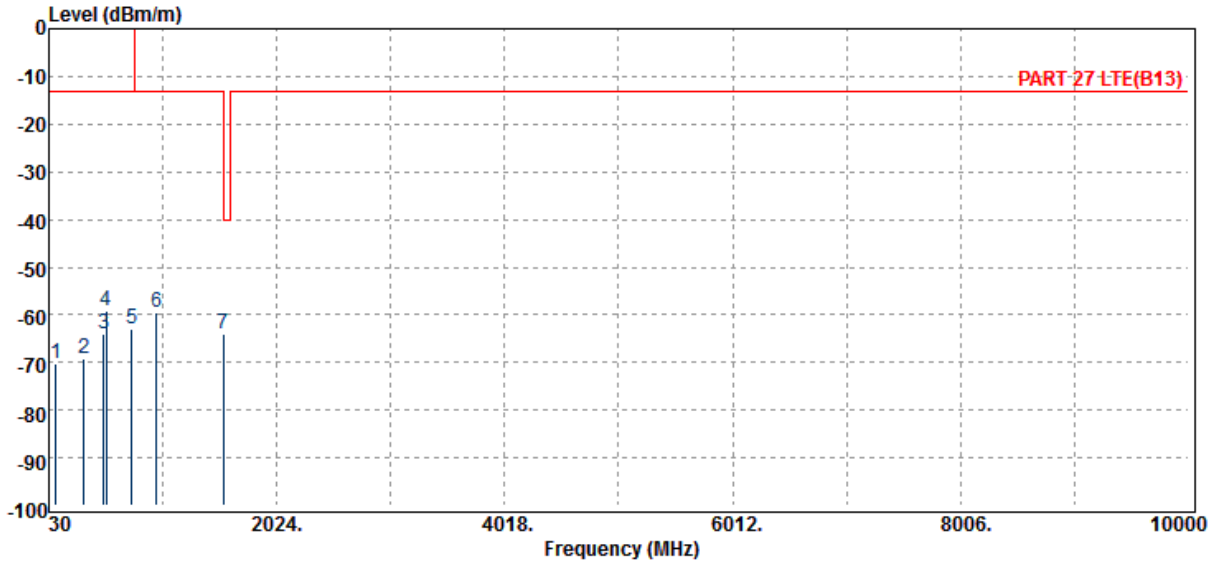
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### Radiated Spurious Emission Measurement Result: LTE-Band 13 (The Worst Case)

Operation Band	:LTE B13	Temp./Humi.	:21 deg_C / 62 RH
Fundamental Frequency	:779.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
93.05	S	-70.29	-68.26	-0.81	-1.22	-13.00	-57.29
333.61	S	-69.27	-71.14	3.79	-1.92	-13.00	-56.27
510.15	S	-63.99	-65.45	3.80	-2.34	-13.00	-50.99
532.46	S	-59.08	-60.24	3.68	-2.52	-13.00	-46.08
757.50	S	-63.02	-63.20	3.21	-3.03	-13.00	-50.02
970.90	S	-59.38	-59.68	3.47	-3.16	-13.00	-46.38
1559.00	H	-64.04	-66.70	6.78	-4.12	-40.00	-24.04

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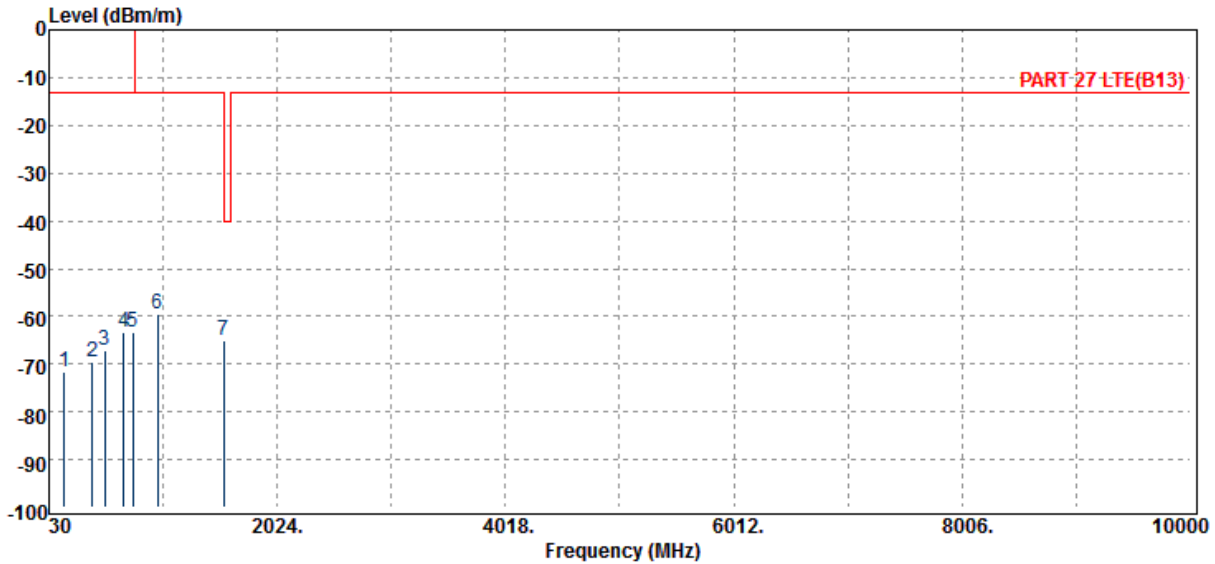
t (886-2) 2299-3279

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Operation Band	:LTE B13	Temp./Humi.	:21 deg_C / 62 RH
Fundamental Frequency	:779.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
159.98	S	-71.47	-68.35	-1.64	-1.48	-13.00	-58.47
411.21	S	-69.63	-71.02	3.78	-2.39	-13.00	-56.63
515.00	S	-67.21	-68.62	3.77	-2.36	-13.00	-54.21
684.75	S	-63.40	-63.79	3.10	-2.70	-13.00	-50.40
760.41	S	-63.27	-63.47	3.22	-3.01	-13.00	-50.27
977.69	S	-59.39	-59.80	3.60	-3.19	-13.00	-46.39
1559.00	H	-65.08	-67.74	6.78	-4.12	-40.00	-25.08

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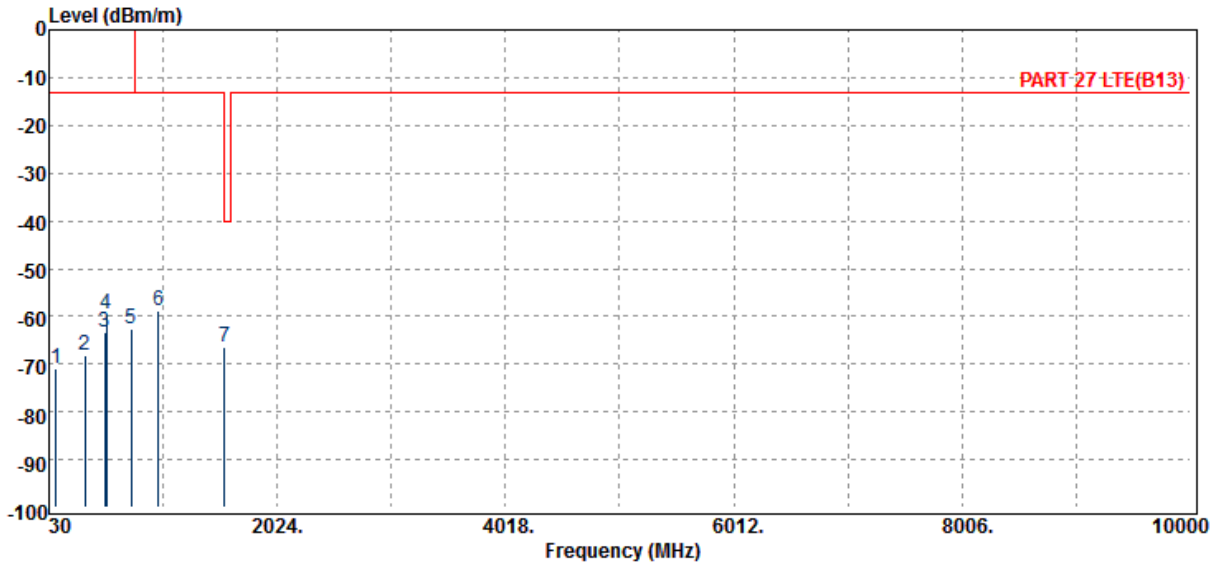
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Operation Band	:LTE B13	Temp./Humi.	:21 deg_C / 62 RH
Fundamental Frequency	:782.0 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
93.05	S	-71.07	-69.04	-0.81	-1.22	-13.00	-58.07
342.34	S	-68.24	-70.08	3.83	-1.99	-13.00	-55.24
515.00	S	-63.38	-64.80	3.77	-2.36	-13.00	-50.38
531.49	S	-59.64	-60.81	3.69	-2.51	-13.00	-46.64
749.74	S	-62.60	-62.70	3.18	-3.08	-13.00	-49.60
983.51	S	-58.88	-59.39	3.72	-3.21	-13.00	-45.88
1564.00	H	-66.45	-69.12	6.80	-4.13	-40.00	-26.45

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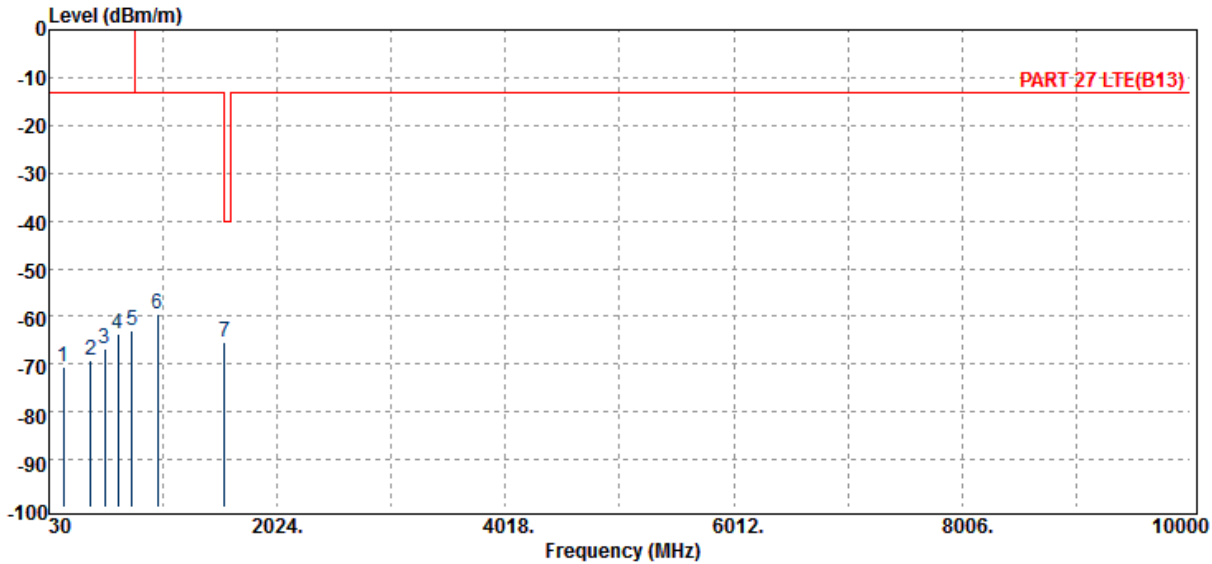
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Operation Band	:LTE B13	Temp./Humi.	:21 deg_C / 62 RH
Fundamental Frequency	:782.0 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
158.04	S	-70.61	-67.42	-1.73	-1.47	-13.00	-57.61
395.69	S	-69.14	-70.61	3.82	-2.35	-13.00	-56.14
515.00	S	-66.66	-68.08	3.77	-2.36	-13.00	-53.66
633.34	S	-63.63	-64.34	3.17	-2.46	-13.00	-50.63
754.59	S	-62.99	-63.14	3.20	-3.05	-13.00	-49.99
978.66	S	-59.48	-59.91	3.62	-3.19	-13.00	-46.48
1564.00	H	-65.42	-68.08	6.80	-4.13	-40.00	-25.42

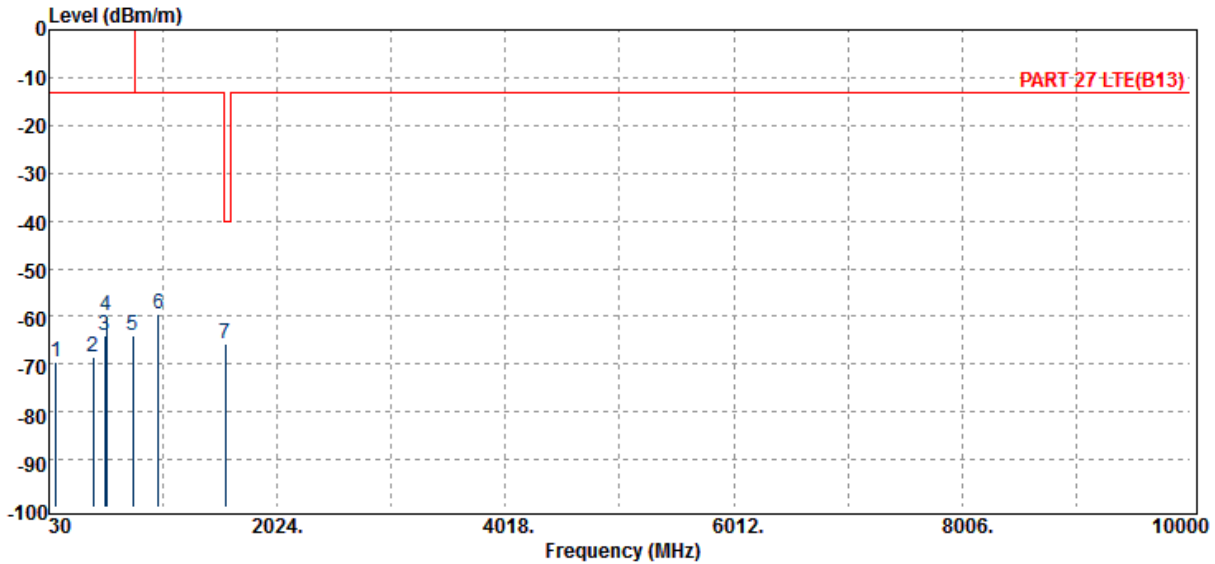
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Operation Band	:LTE B13	Temp./Humi.	:21 deg_C / 62 RH
Fundamental Frequency	:784.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
91.11	S	-69.45	-67.67	-0.57	-1.21	-13.00	-56.45
413.15	S	-68.44	-69.84	3.77	-2.38	-13.00	-55.44
515.97	S	-63.96	-65.37	3.77	-2.36	-13.00	-50.96
531.49	S	-59.70	-60.87	3.69	-2.51	-13.00	-46.70
765.26	S	-63.85	-64.10	3.23	-2.98	-13.00	-50.85
987.39	S	-59.38	-59.95	3.80	-3.23	-13.00	-46.38
1569.00	H	-65.67	-68.35	6.82	-4.14	-40.00	-25.67

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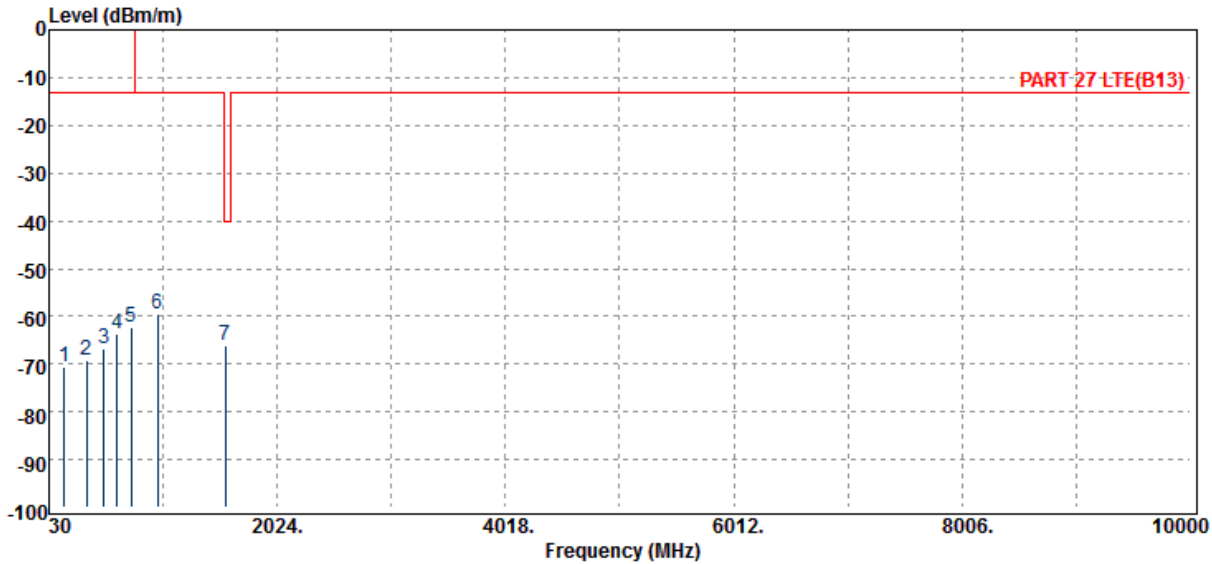
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Operation Band	:LTE B13	Temp./Humi.	:21 deg_C / 62 RH
Fundamental Frequency	:784.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
165.80	S	-70.56	-67.85	-1.21	-1.50	-13.00	-57.56
361.74	S	-69.36	-71.07	3.85	-2.14	-13.00	-56.36
513.06	S	-66.67	-68.10	3.79	-2.35	-13.00	-53.67
626.55	S	-63.68	-64.37	3.19	-2.49	-13.00	-50.68
749.74	S	-62.39	-62.49	3.18	-3.08	-13.00	-49.39
978.66	S	-59.68	-60.11	3.62	-3.19	-13.00	-46.68
1569.00	H	-65.97	-68.65	6.82	-4.14	-40.00	-25.97

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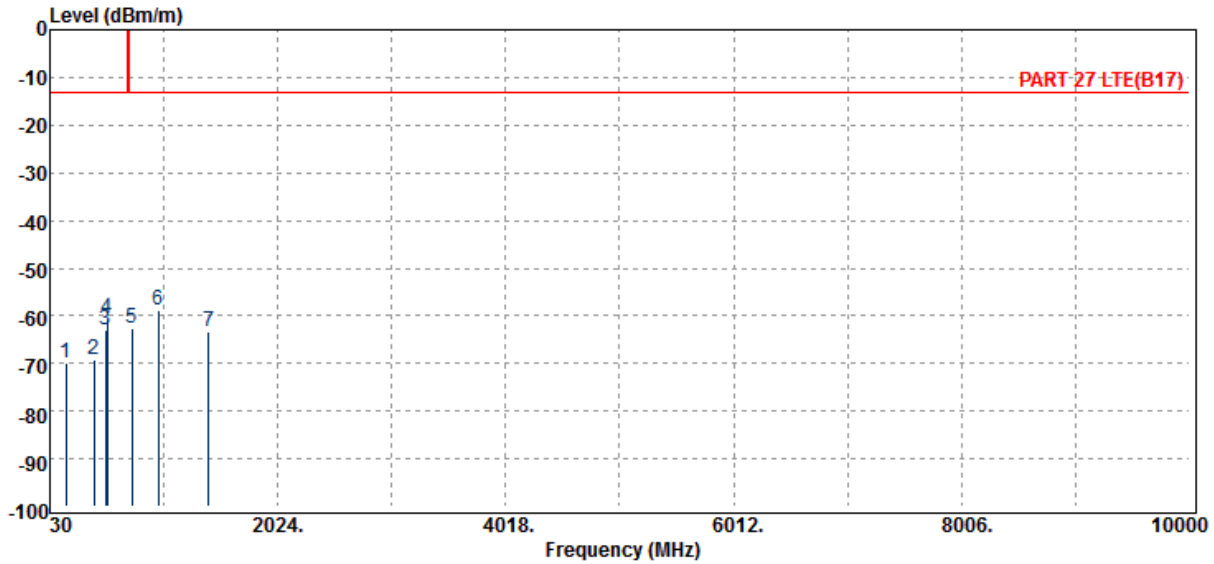
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### Radiated Spurious Emission Measurement Result: LTE-Band 17 (The Worst Case)

Operation Band	:LTE B17	Test Date	:2017-03-24
Fundamental Frequency	:709.0 MHz	Temp./Humi.	:21 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
173.56	S	-70.01	-68.22	-0.26	-1.53	-13.00	-57.01
413.15	S	-69.20	-70.59	3.77	-2.38	-13.00	-56.20
515.00	S	-62.83	-64.24	3.77	-2.36	-13.00	-49.83
532.46	S	-60.45	-61.61	3.68	-2.52	-13.00	-47.45
749.74	S	-62.75	-62.85	3.18	-3.08	-13.00	-49.75
977.69	S	-58.81	-59.23	3.60	-3.19	-13.00	-45.81
1418.00	H	-63.32	-65.61	6.20	-3.92	-13.00	-50.32

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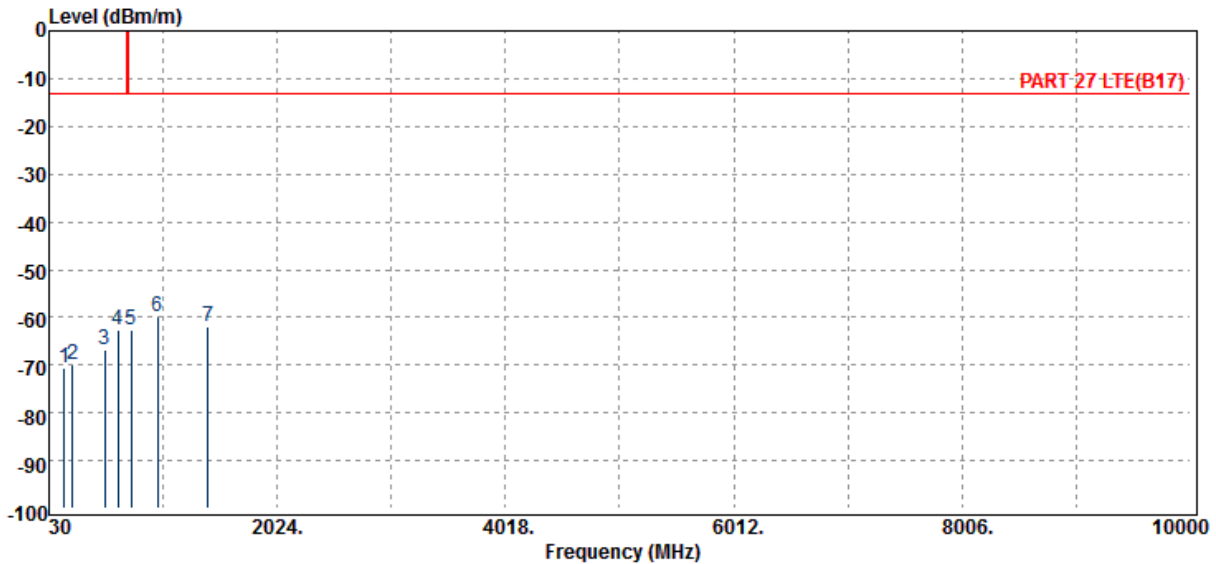
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Operation Band	:LTE B17	Test Date	:2017-03-24
Fundamental Frequency	:709.0 MHz	Temp./Humi.	:21 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
165.80	S	-70.52	-67.80	-1.21	-1.50	-13.00	-57.52
235.64	S	-69.90	-71.37	3.21	-1.73	-13.00	-56.90
515.00	S	-66.87	-68.28	3.77	-2.36	-13.00	-53.87
629.46	S	-62.57	-63.28	3.18	-2.47	-13.00	-49.57
749.74	S	-62.70	-62.80	3.18	-3.08	-13.00	-49.70
977.69	S	-59.93	-60.34	3.60	-3.19	-13.00	-46.93
1418.00	H	-62.10	-64.38	6.20	-3.92	-13.00	-49.10

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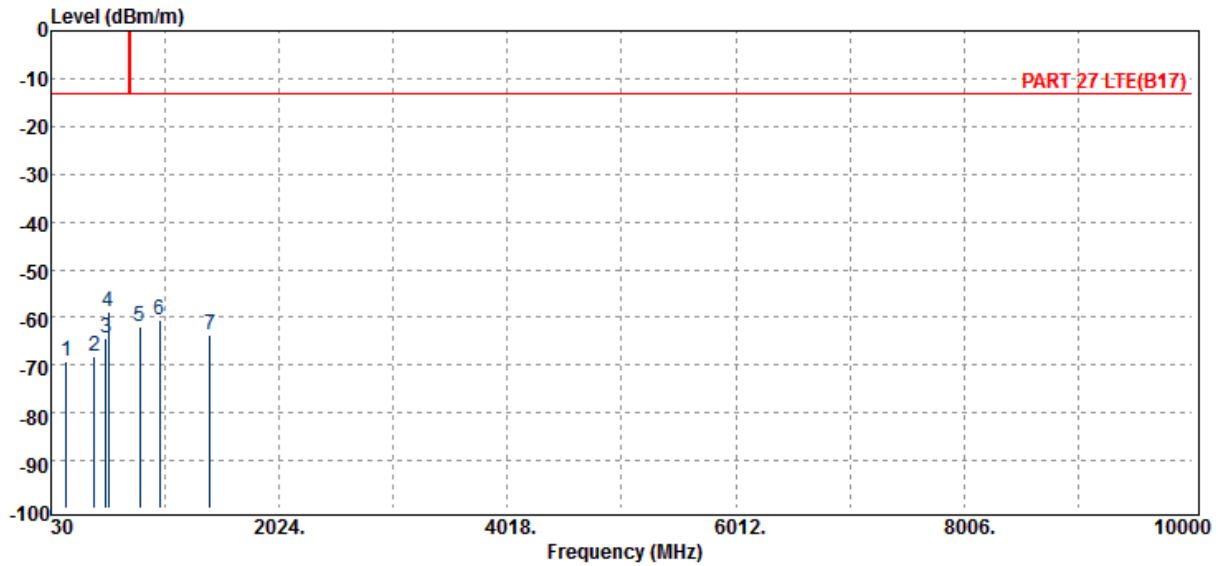
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Operation Band	:LTE B17	Test Date	:2017-03-24
Fundamental Frequency	:710.0 MHz	Temp./Humi.	:21 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
165.80	S	-69.13	-66.42	-1.21	-1.50	-13.00	-56.13
405.39	S	-68.30	-69.69	3.80	-2.41	-13.00	-55.30
513.06	S	-64.28	-65.71	3.79	-2.35	-13.00	-51.28
531.49	S	-58.76	-59.93	3.69	-2.51	-13.00	-45.76
806.00	S	-62.05	-62.49	3.33	-2.89	-13.00	-49.05
977.69	S	-60.40	-60.81	3.60	-3.19	-13.00	-47.40
1420.00	H	-63.50	-65.79	6.21	-3.92	-13.00	-50.50

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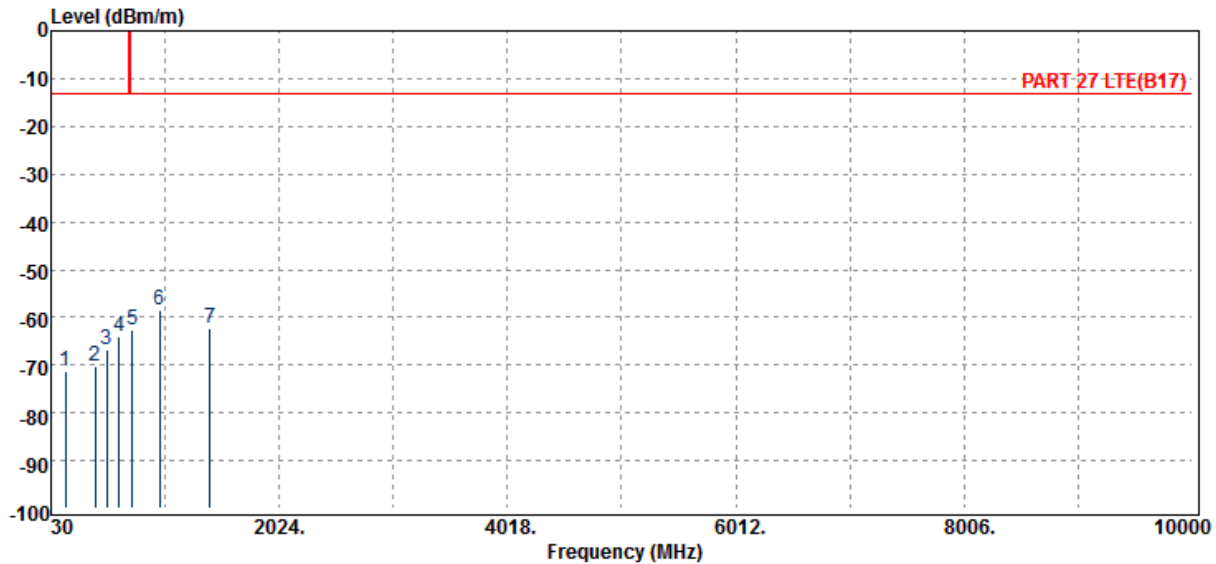
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Operation Band	:LTE B17	Test Date	:2017-03-24
Fundamental Frequency	:710.0 MHz	Temp./Humi.	:21 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
154.16	S	-71.14	-67.79	-1.90	-1.45	-13.00	-58.14
415.09	S	-70.38	-71.78	3.77	-2.37	-13.00	-57.38
515.97	S	-66.76	-68.17	3.77	-2.36	-13.00	-53.76
621.70	S	-63.94	-64.61	3.20	-2.53	-13.00	-50.94
740.04	S	-62.62	-62.64	3.16	-3.14	-13.00	-49.62
977.69	S	-58.34	-58.75	3.60	-3.19	-13.00	-45.34
1420.00	H	-62.19	-64.48	6.21	-3.92	-13.00	-49.19

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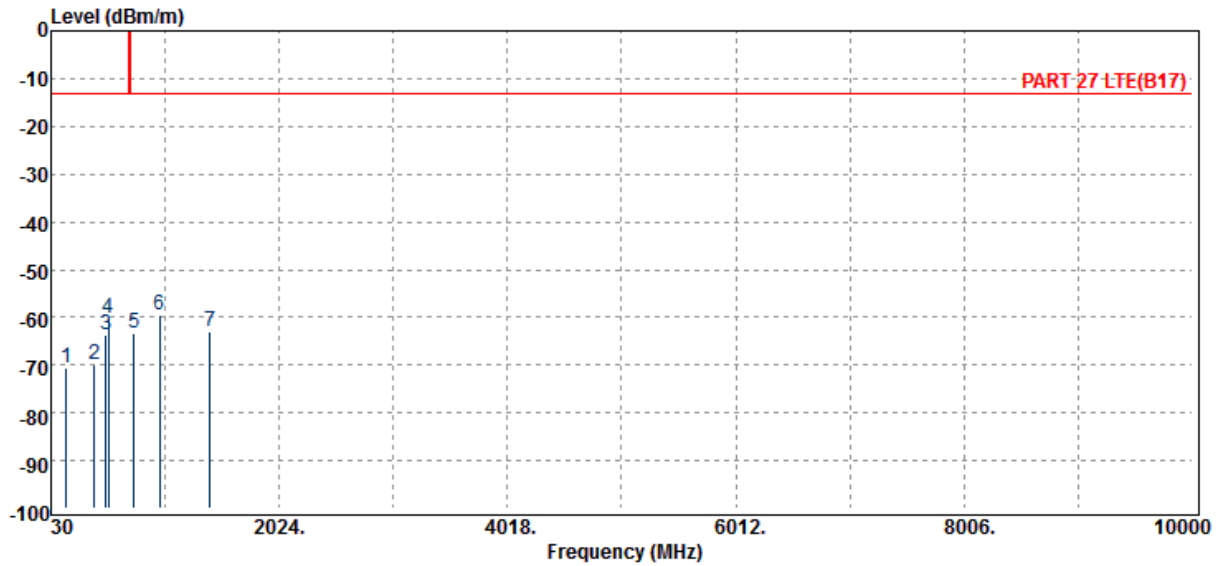
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Operation Band	:LTE B17	Test Date	:2017-03-24
Fundamental Frequency	:711.0 MHz	Temp./Humi.	:21 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
159.98	S	-70.45	-67.33	-1.64	-1.48	-13.00	-57.45
411.21	S	-69.80	-71.19	3.78	-2.39	-13.00	-56.80
513.06	S	-63.63	-65.06	3.79	-2.35	-13.00	-50.63
532.46	S	-60.15	-61.30	3.68	-2.52	-13.00	-47.15
754.59	S	-63.28	-63.43	3.20	-3.05	-13.00	-50.28
980.60	S	-59.56	-60.02	3.66	-3.20	-13.00	-46.56
1422.00	H	-63.09	-65.38	6.22	-3.93	-13.00	-50.09

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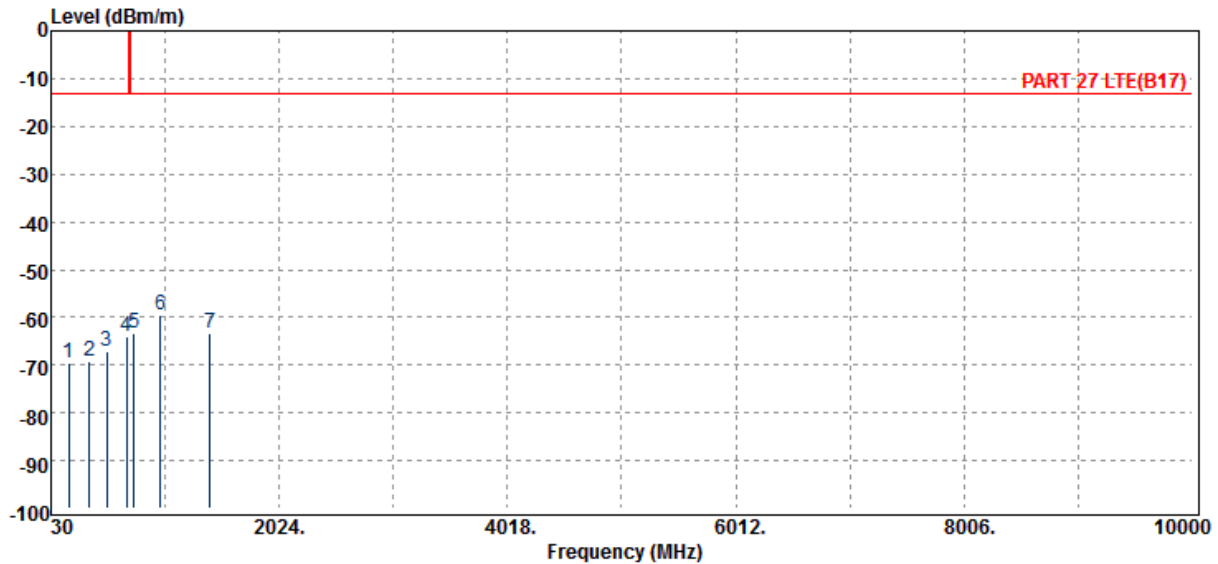
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Operation Band	:LTE B17	Test Date	:2017-03-24
Fundamental Frequency	:711.0 MHz	Temp./Humi.	:21 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
182.29	S	-69.47	-69.18	1.28	-1.57	-13.00	-56.47
367.56	S	-69.11	-70.78	3.85	-2.18	-13.00	-56.11
515.97	S	-67.12	-68.53	3.77	-2.36	-13.00	-54.12
687.66	S	-63.91	-64.24	3.10	-2.76	-13.00	-50.91
755.56	S	-63.21	-63.37	3.20	-3.04	-13.00	-50.21
982.54	S	-59.56	-60.05	3.70	-3.21	-13.00	-46.56
1422.00	H	-63.28	-65.58	6.22	-3.93	-13.00	-50.28

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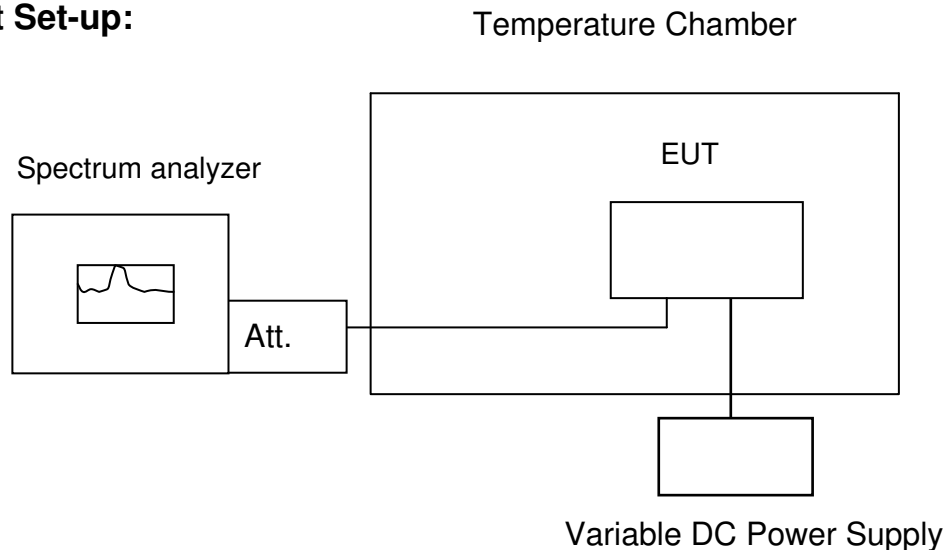


## 11. FREQUENCY STABILITY MEASUREMENT

### 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

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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	12/15/2016	12/14/2017
Power Sensor	Anritsu	MA2411B	917032	12/15/2016	12/14/2017
EXA Spectrum Analyzer	Agilent	N9030A	MY53120760	03/21/2017	03/20/2018
DC Block	Mini-Circuits	BLK-18-S+	1	01/05/2017	01/04/2018
Coaxial Cable	HUBER+SUHNER	SUCOFLEX 102	23670/2	01/05/2017	01/04/2018
Attenuator	Mini-Circuit	BW-S10W2+	2	01/05/2017	01/04/2018
Splitter	Agilent	11636B	N/A	01/05/2017	01/04/2018
DC Power Supply	Agilent	E3640A	MY52410006	11/21/2016	11/20/2017
Temperature Chamber	TERCHY	MHG-120LF	911009	05/17/2016	05/16/2017
Radio Communication Analyzer	Anritsu	MT8820C	6201465317	01/03/2017	01/02/2018
Radio Communication Analyzer	R&S	CMU200	102189	02/11/2017	02/10/2018

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**11.5. Measurement Result:**

**FREQUENCY ERROR vs. VOLTAGE**

Reference Frequency: GPRS 850 Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency		
Vdc	Temperature (		Delta (Hz)	Limit (Hz)

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### FREQUENCY ERROR vs. VOLTAGE

Reference Frequency: GPRS 1900 Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (			

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**FREQUENCY ERROR vs. VOLTAGE**

Reference Frequency: CDMA2000 cell BC0 Mid Channel 836.52 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (			

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**FREQUENCY ERROR vs. VOLTAGE**

Reference Frequency: CDMA2000 cell BC1 Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (			

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**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 (			

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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 (			

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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 (			

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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			
Vdc	Temperature (		Delta (Hz)		Limit (Hz)

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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			
Vdc	Temperature (		Delta (Hz)		Limit (Hz)

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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			
Vdc	Temperature (		Delta (Hz)		Limit (Hz)

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**FREQUENCY ERROR vs. VOLTAGE**

Reference Frequency:		LTE B7 Mid Channel	2535.0	MHz	10M QPSK CH 21100
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency			
Vdc	Temperature (		Delta (Hz)		Limit (Hz)

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**FREQUENCY ERROR vs. VOLTAGE**

Reference Frequency:		LTE B12 Mid Channel	707.5	MHz	10M QPSK CH 23095
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency			
Vdc	Temperature (		Delta (Hz)		Limit (Hz)

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**FREQUENCY ERROR vs. VOLTAGE**

Reference Frequency:		LTE B13 Mid Channel	782.0	MHz	10M QPSK CH 23230
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency			
Vdc	Temperature (		Delta (Hz)		Limit (Hz)

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**FREQUENCY ERROR vs. VOLTAGE**

Reference Frequency:		LTE B17 Mid Channel	710.0	MHz	10M QPSK CH 23790
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency			
Vdc	Temperature (		Delta (Hz)		Limit (Hz)

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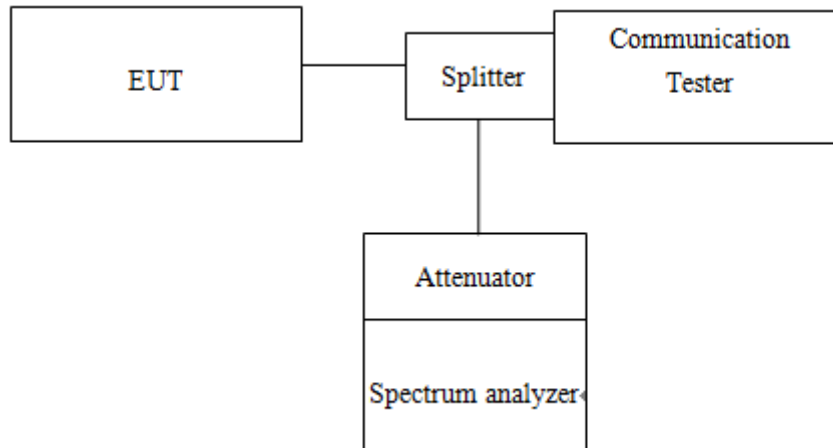
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## 12. PEAK TO AVERAGE RATIO

### 12.1. Standard Applicable

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

### 12.2. Test SET-UP



### 12.3. Measurement Procedure

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

### 12.4. Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	Agilent	N9030A	MY53120760	03/21/2017	03/20/2018
DC Block	Mini-Circuits	BLK-18-S+	1	01/05/2017	01/04/2018
Coaxial Cable	HUBER+SUHNER	SUCOFLEX 102	23670/2	01/05/2017	01/04/2018
Attenuator	Mini-Circuit	BW-S10W2+	2	01/05/2017	01/04/2018
Splitter	Agilent	11636B	N/A	01/05/2017	01/04/2018
DC Power Supply	Agilent	E3640A	MY52410006	11/21/2016	11/20/2017

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## 12.5. Measurement Result

### Tabular Results:

Freq. (MHz)	CH	Peak-to-Average	
		GPRS 1900	EDGE 1900
1850.2	9296	<b>10.02</b>	<b>12.79</b>
1880.0	9400	<b>10.45</b>	12.25
1909.8	9538	9.83	11.73

Freq. (MHz)	CH	Peak-to-Average	
		CDMA BC1	EVDO BC1
1850.2	512	3.25	3.30
1880.0	661	<b>3.49</b>	<b>3.50</b>
1909.8	810	3.30	3.04

Freq. (MHz)	CH	Peak-to-Average		
		WCDMA II	HSDPA II	HSUPA II
1850.2	9262	2.92	3.85	3.87
1880.0	9400	<b>3.10</b>	<b>3.94</b>	<b>3.95</b>
1909.8	9538	2.85	3.73	3.88

Freq. (MHz)	CH	Peak-to-Average		
		WCDMA IV	HSDPA	HSUPA IV
1712.4	1312	2.83	<b>4.06</b>	<b>4.09</b>
1732.6	1413	2.78	3.83	3.82
1752.6	1513	<b>2.90</b>	3.94	3.97

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LTE BAND 2							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		Freq. (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
1850.7	18607	4.93	13	1851.5	18615	5.35	13
1880.0	18900	<b>5.38</b>	13	1880.0	18900	<b>5.65</b>	13
1909.3	19193	4.57	13	1908.5	19185	5.20	13

LTE BAND 2							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		Freq. (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
1852.5	18625	5.34	13	1855.0	18650	<b>5.72</b>	13
1880.0	18900	<b>5.58</b>	13	1880.0	18900	5.70	13
1907.5	19175	5.07	13	1905.0	19150	5.26	13

LTE BAND 2							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		Freq. (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
1857.5	18675	5.87	13	1860.0	18700	6.57	13
1880.0	18900	<b>6.06</b>	13	1880.0	18900	<b>6.60</b>	13
1902.5	19125	5.88	13	1900.0	19100	6.41	13

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LTE BAND 4							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		Freq. (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
1710.7	19957	5.46	13	1711.5	19965	5.94	13
1732.5	20175	5.52	13	1732.5	20175	5.85	13
1754.3	20393	<b>6.04</b>	13	1753.5	20385	<b>6.31</b>	13

LTE BAND 4							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		Freq. (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
1712.5	19957	5.96	13	1715.0	20000	5.98	13
1732.5	20175	5.65	13	1732.5	20175	5.80	13
1752.5	20375	<b>6.03</b>	13	1750.0	20350	<b>5.99</b>	13

LTE BAND 4							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		Freq. (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
1717.5	20025	<b>6.26</b>	13	1720.0	20050	6.73	13
1732.5	20175	6.07	13	1732.5	20175	6.72	13
1747.5	20325	6.23	13	1745.0	20300	<b>6.81</b>	13

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LTE BAND 5							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		Freq. (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
824.7	20407	<b>5.58</b>	13	825.5	20415	5.86	13
836.5	20525	4.99	13	836.5	20525	<b>5.97</b>	13
848.3	20643	5.23	13	847.5	20635	5.57	13

LTE BAND 5							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		Freq. (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
826.5	20425	5.43	13	829.0	20450	5.56	13
836.5	20525	<b>5.67</b>	13	836.5	20525	5.43	13
846.5	20625	5.39	13	844.0	20600	<b>5.88</b>	13

LTE BAND 7							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		Freq. (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
2502.5	20775	<b>5.94</b>	13	2505.0	20800	<b>6.06</b>	13
2535.0	21100	5.93	13	2535.0	21100	5.91	13
2567.5	21425	5.83	13	2565.0	21400	5.96	13

LTE BAND 7							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		Freq. (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
2507.5	20425	<b>6.25</b>	13	2510.0	20850	6.64	13
2535.0	20525	6.18	13	2535.0	21100	<b>6.75</b>	13
2562.5	20625	6.17	13	2560.0	21350	6.70	13

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LTE BAND 12							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		Freq. (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
699.7	23017	5.55	13	700.5	23025	6.06	13
707.5	23095	5.26	13	707.5	23095	5.62	13
715.3	23173	5.17	13	714.5	23165	5.90	13

LTE BAND 12							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		Freq. (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
701.5	23035	5.95	13	704.0	23060	6.05	13
707.5	23095	5.44	13	707.5	23095	5.90	13
713.5	23155	5.93	13	711.0	23130	5.72	13

LTE BAND 13							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		Freq. (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
779.5	23205	4.42	13	782.0	23230	4.66	13
782.0	23230	4.71	13				13
784.5	23255	4.30	13				13

LTE BAND 17							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		Freq. (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
706.5	23755	5.59	13	709.0	23780	5.76	13
710.0	23790	5.58	13	710.0	23790	5.74	13
713.5	23825	5.83	13	711.0	23780	5.64	13

## Measurement Results:

Please refer to next page.

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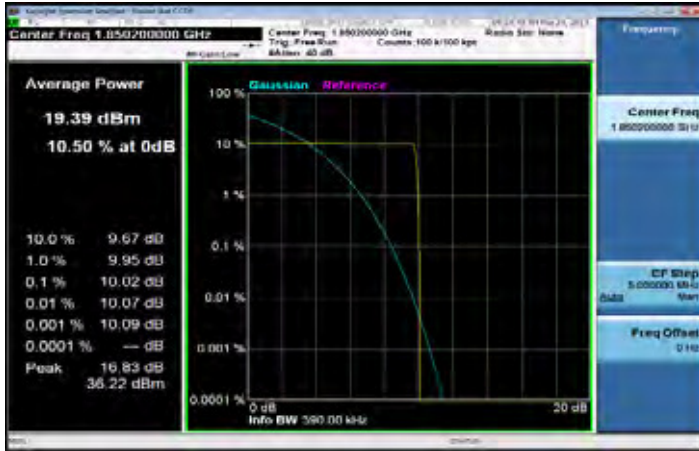
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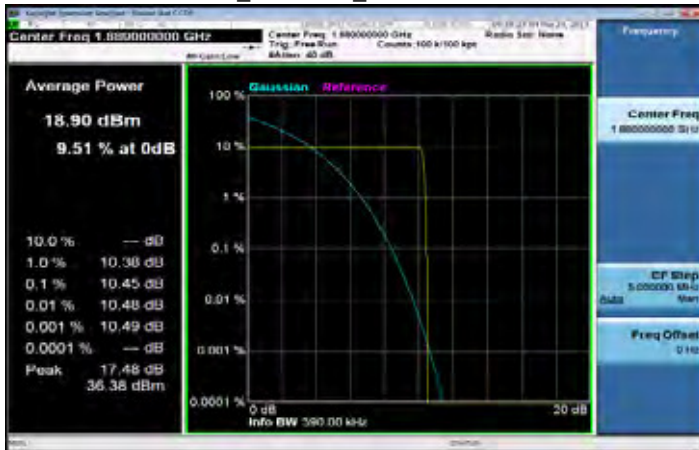
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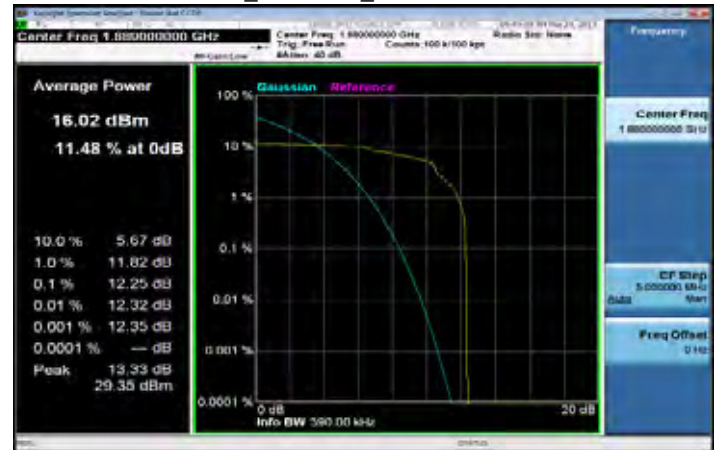
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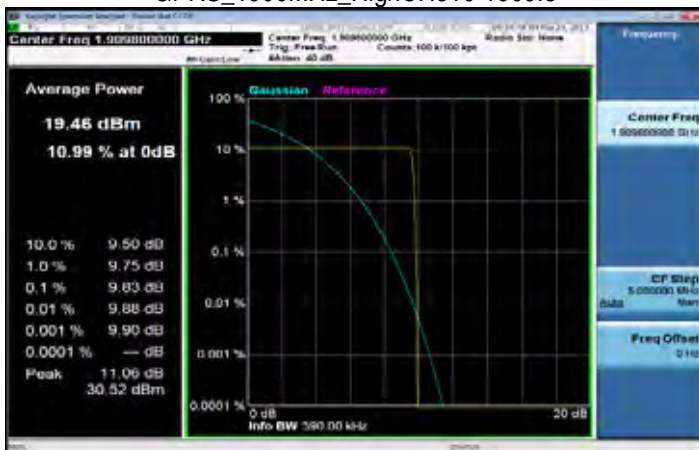
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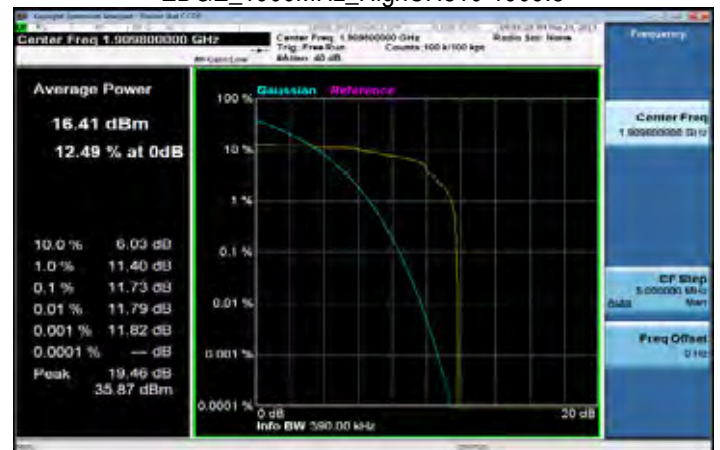
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EDGE\_1900MHz\_HighCH810-1909.8



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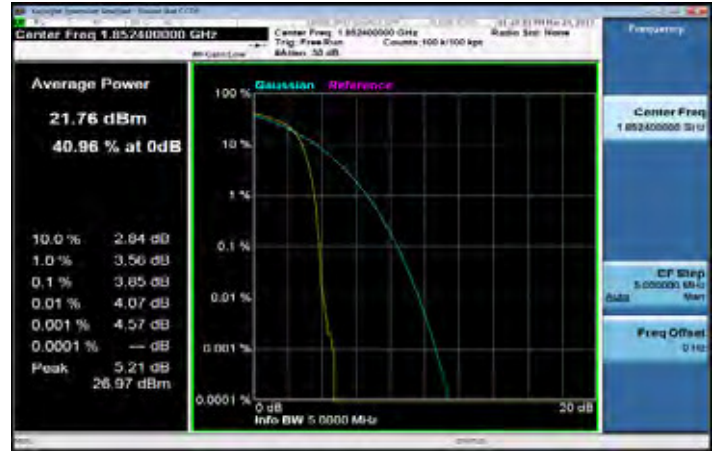
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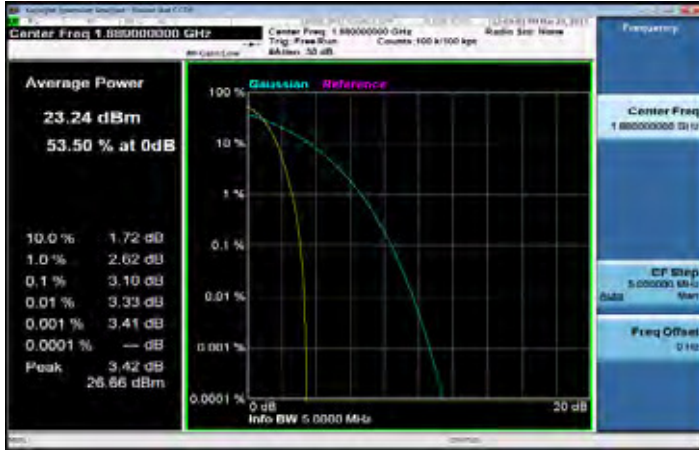
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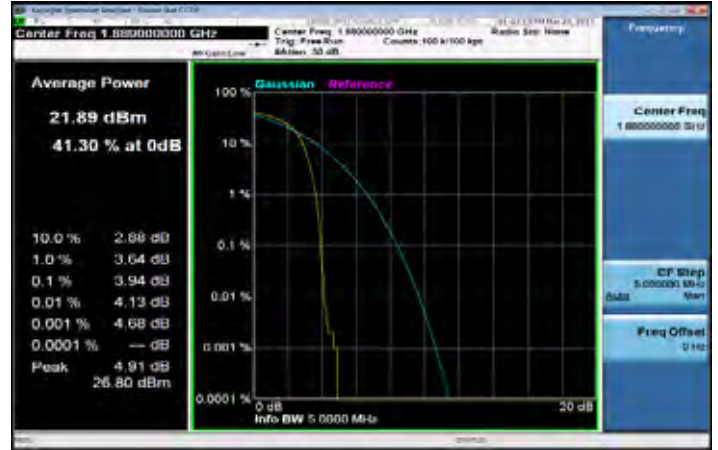
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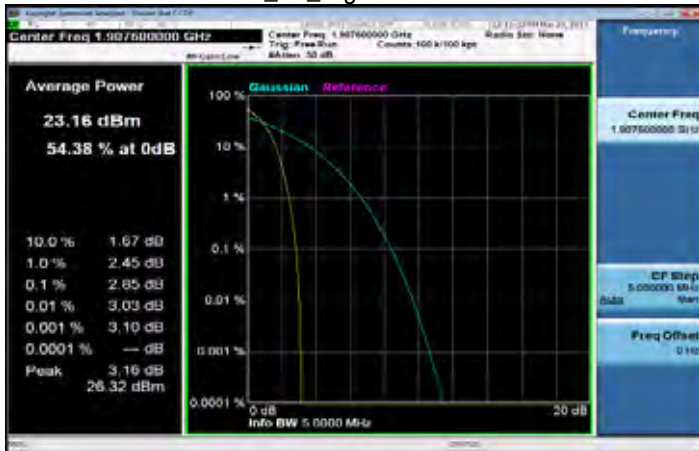
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HSDPA\_B2\_MidCH9400-1880



WCDMA\_B2\_HighCH9538-1907.6



HSDPA\_B2\_HighCH9538-1907.6



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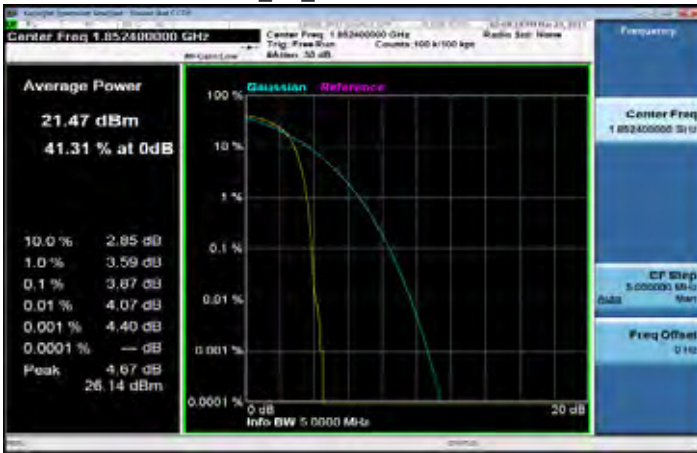
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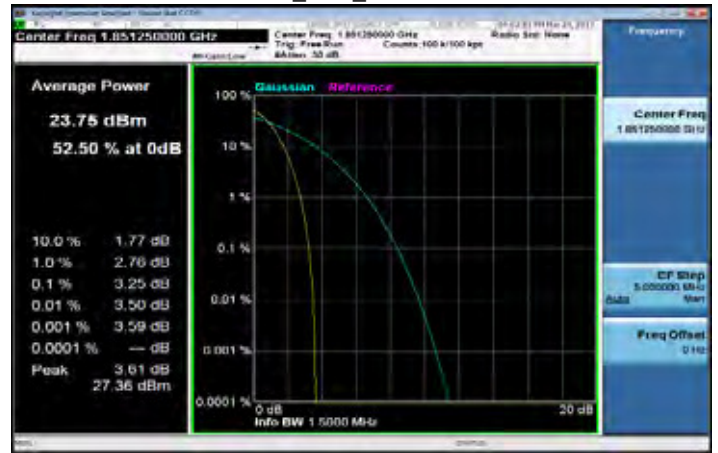
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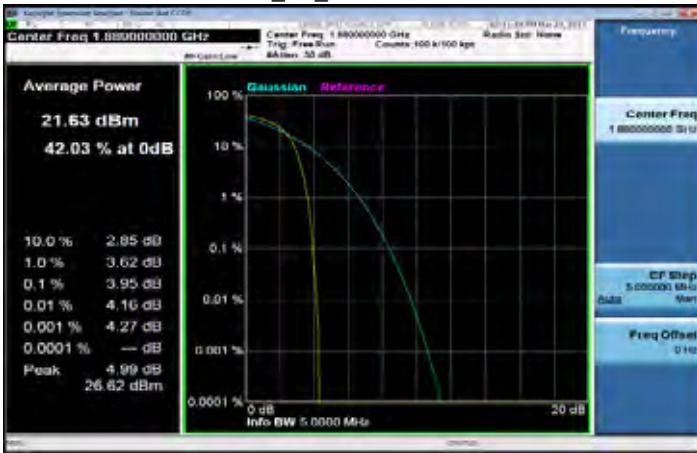
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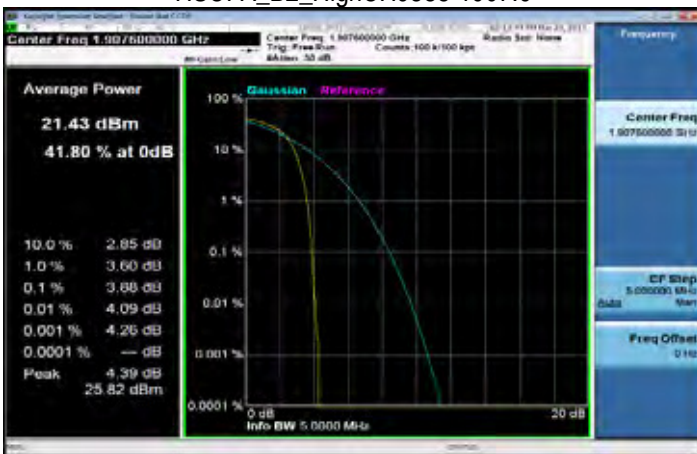
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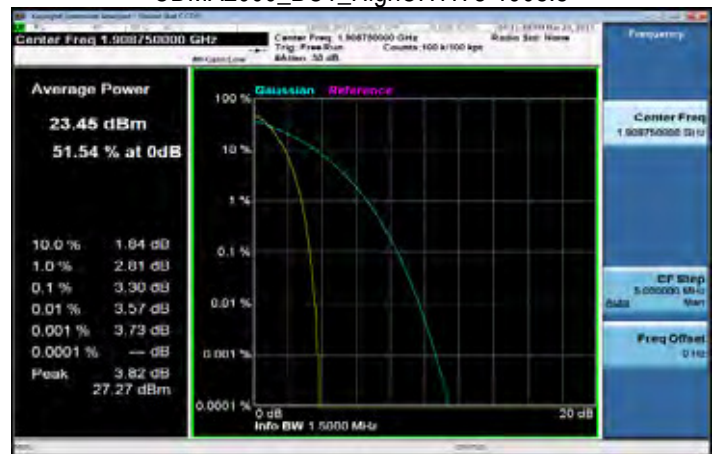
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HSUPA\_B2\_HighCH9538-1907.6



CDMA2000\_BC1\_HighCH1175-1908.8



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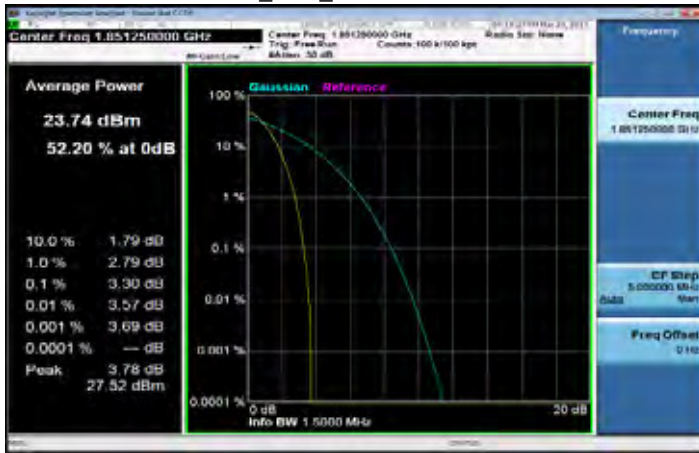
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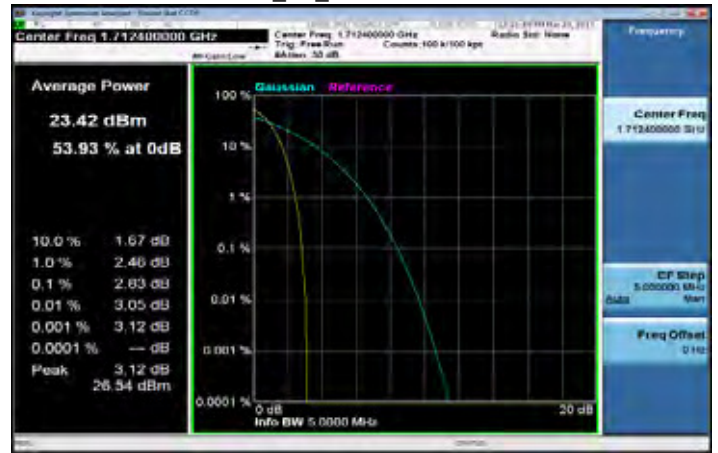
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EVDO\_BC1\_LowCH25-1851.3



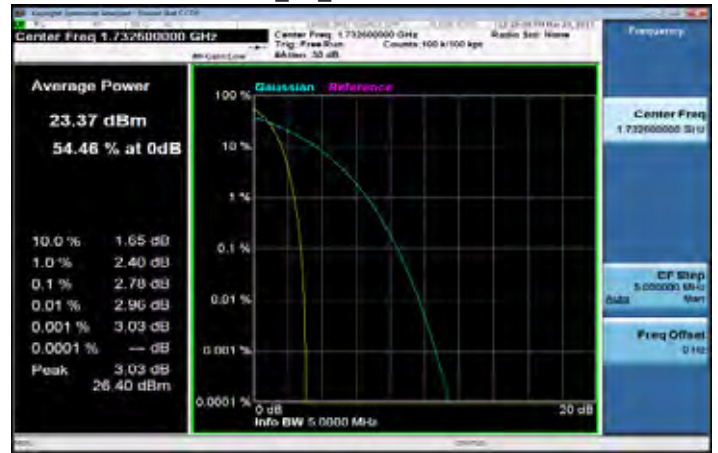
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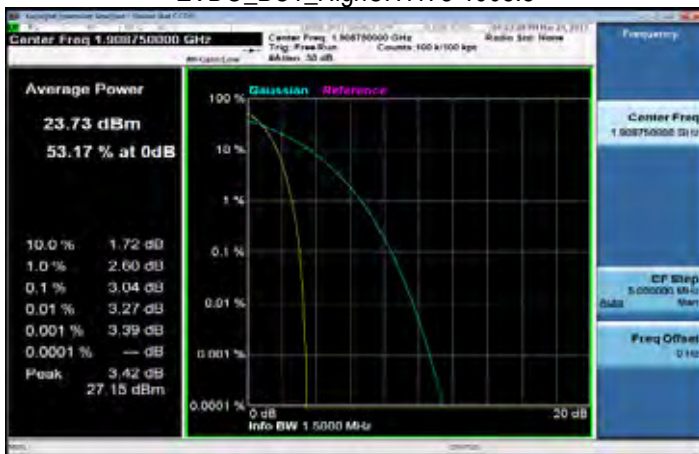
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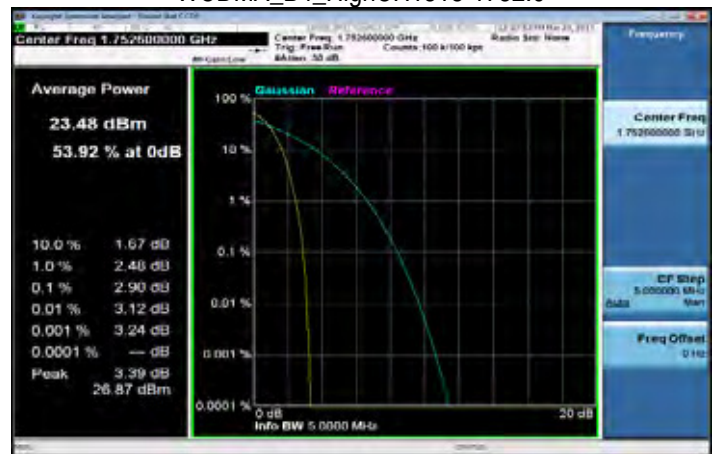
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WCDMA\_B4\_HighCH1513-1752.6



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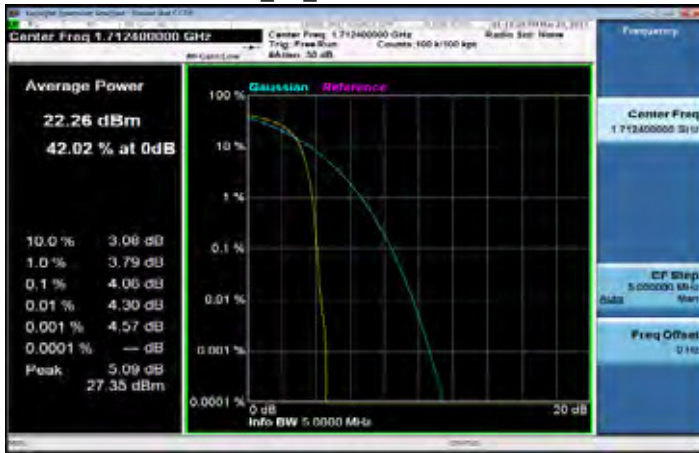
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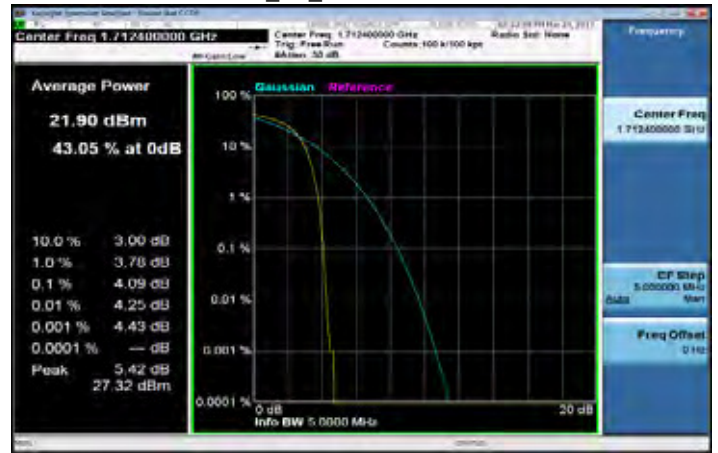
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HSDPA\_B4\_LowCH1312-1712.4



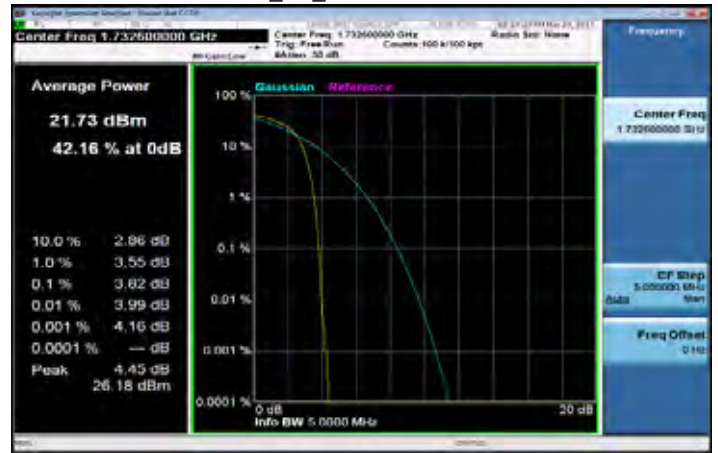
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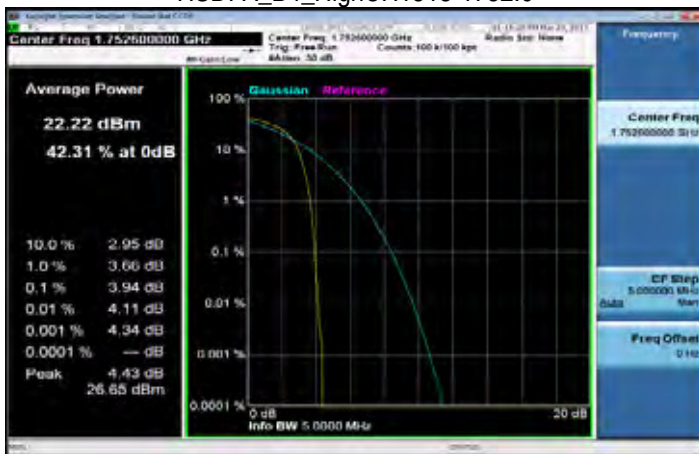
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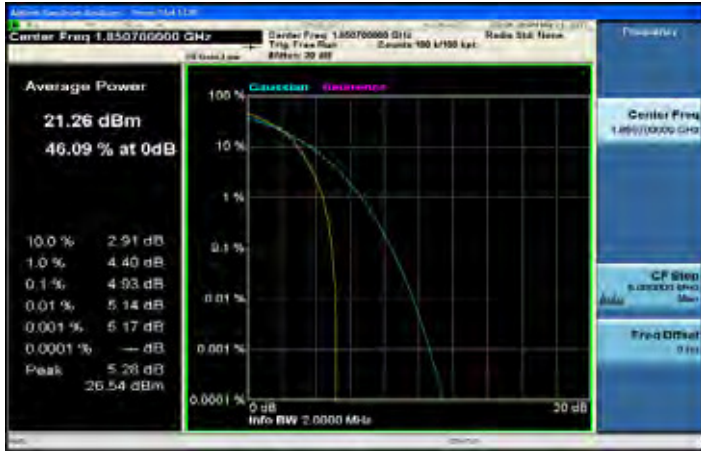


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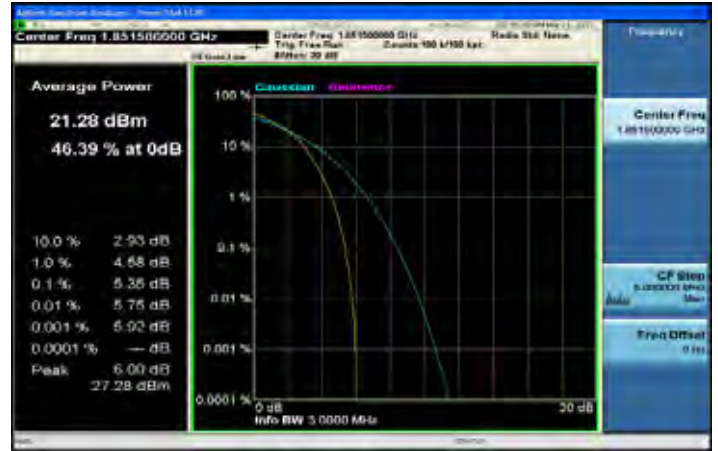
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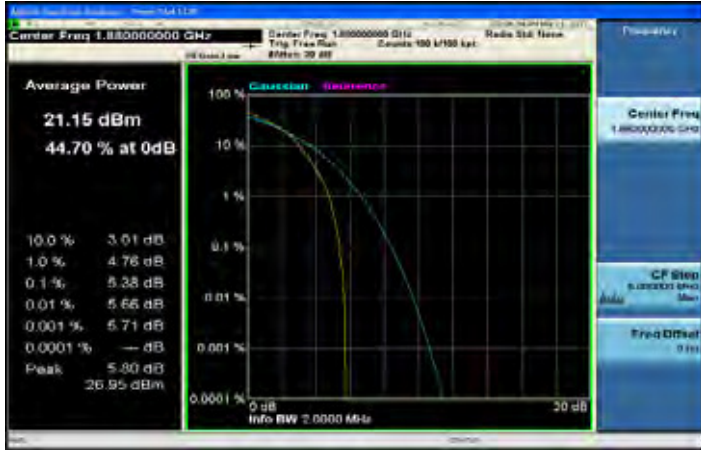
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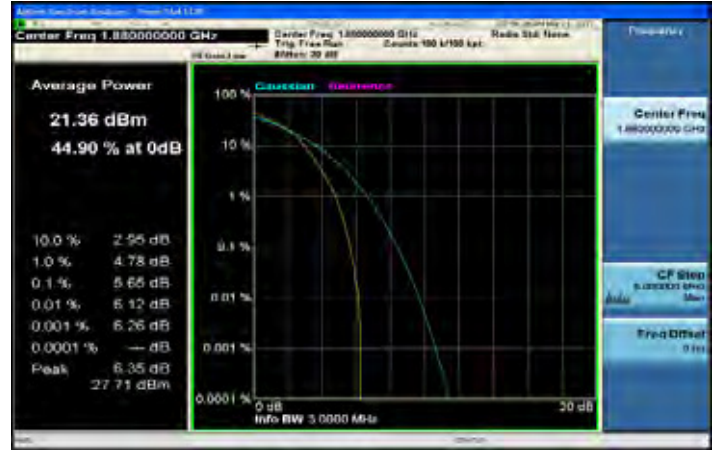
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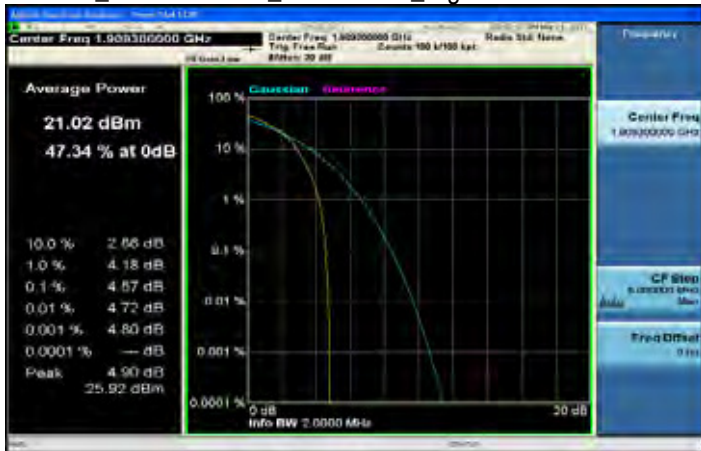
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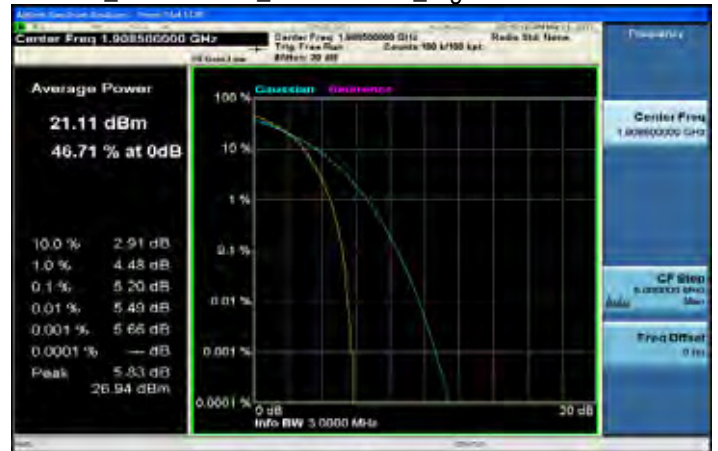
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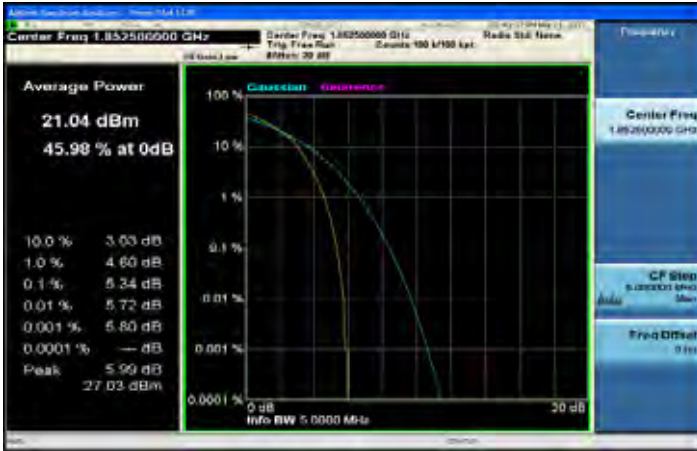
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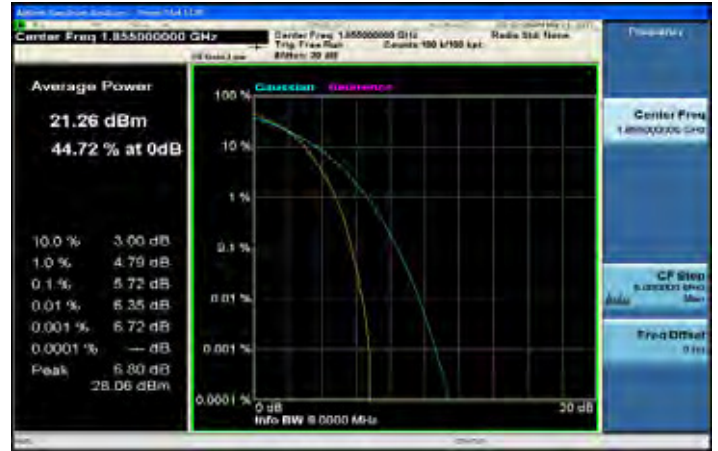
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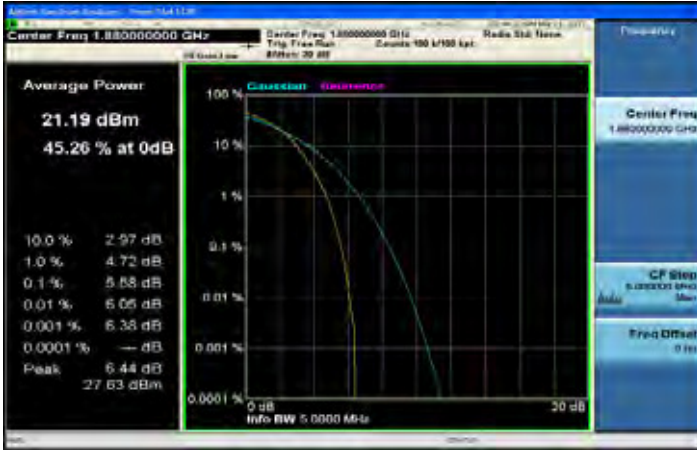
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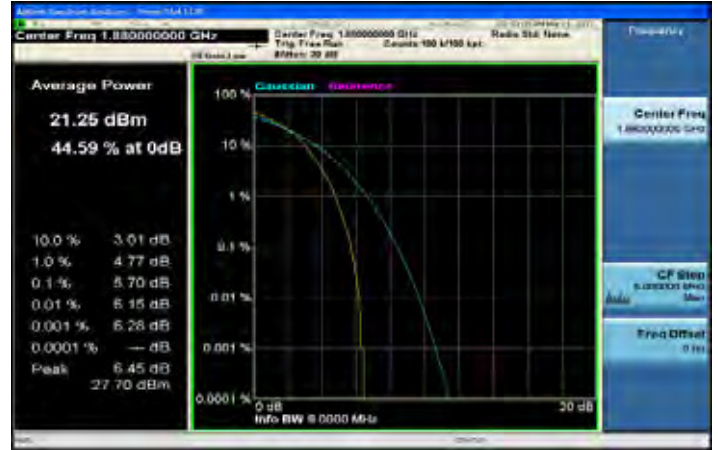
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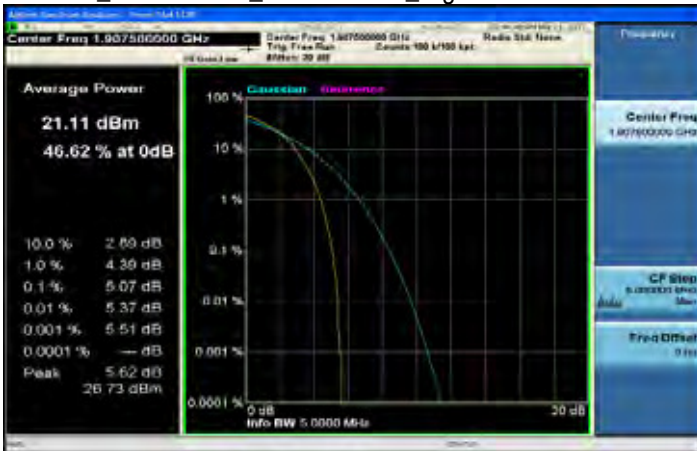
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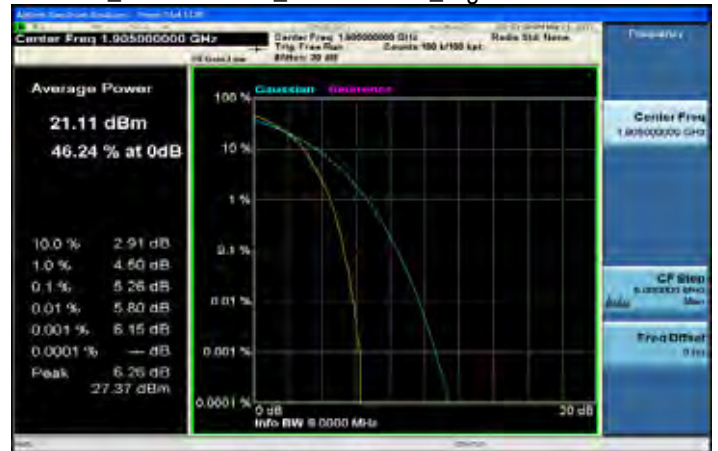
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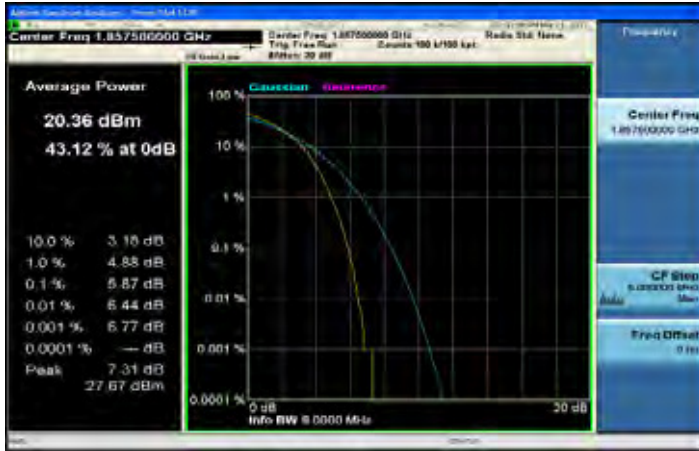
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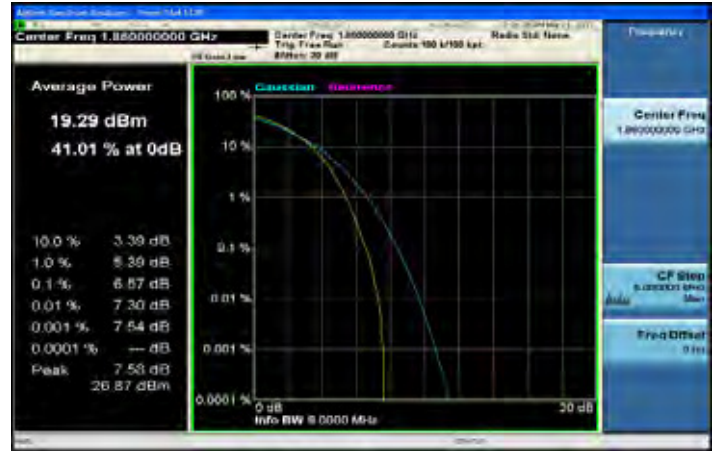
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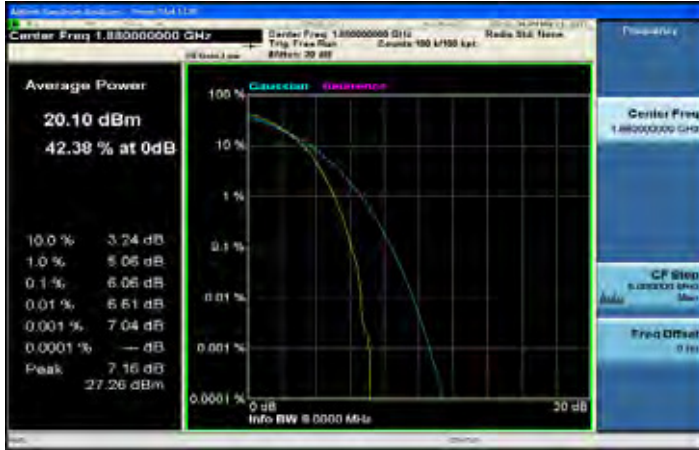
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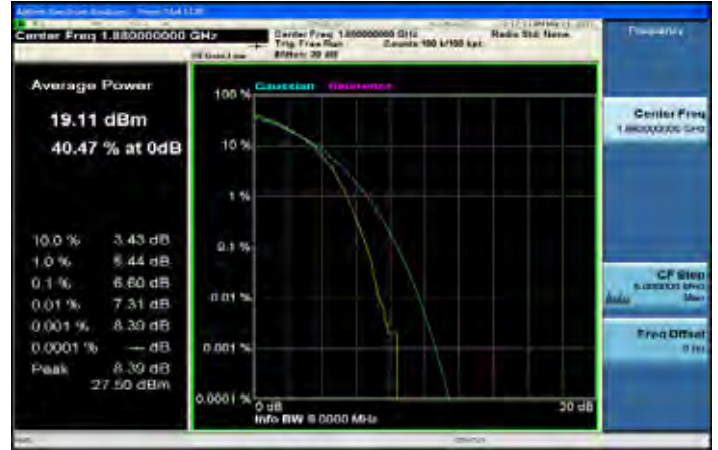
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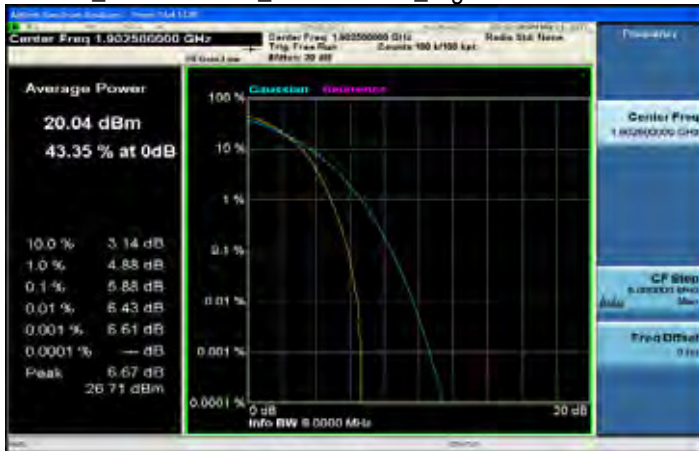
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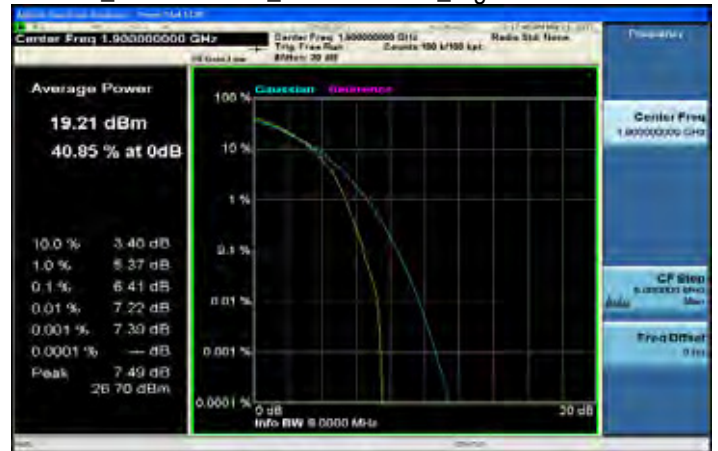
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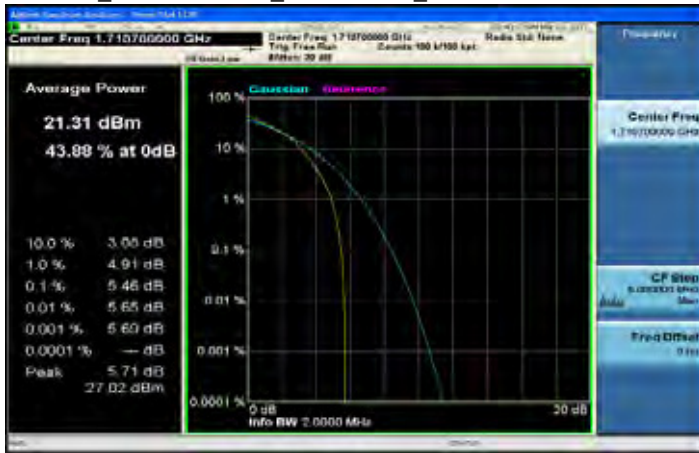
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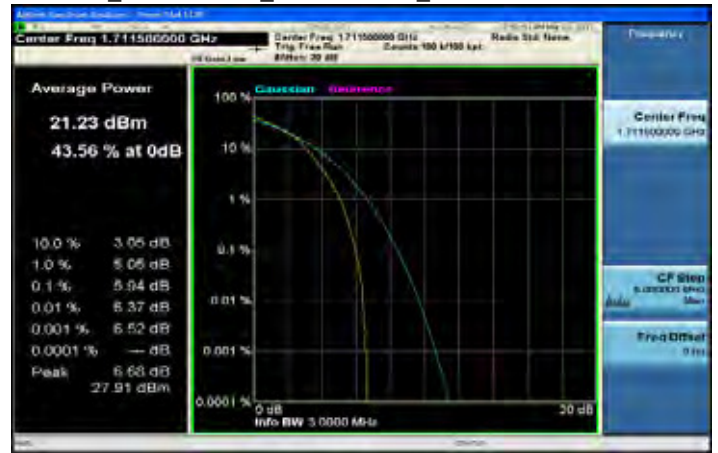
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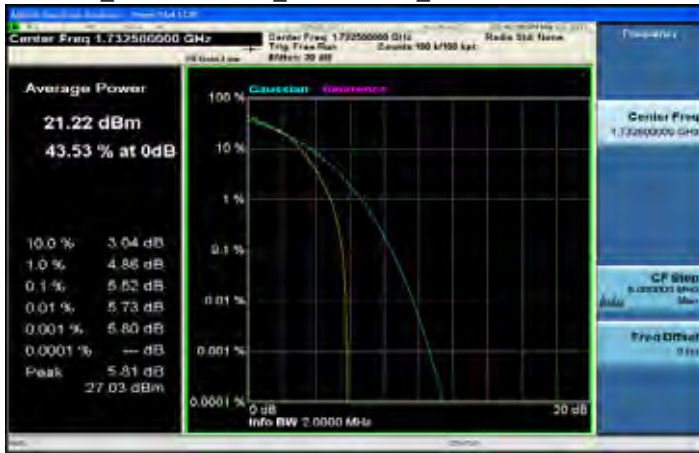
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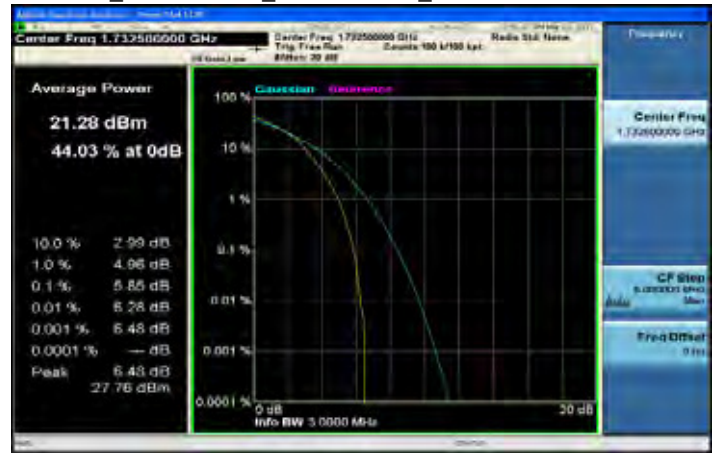
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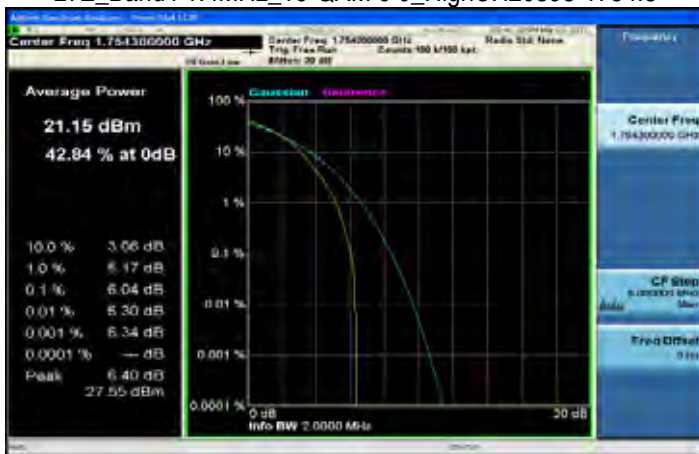
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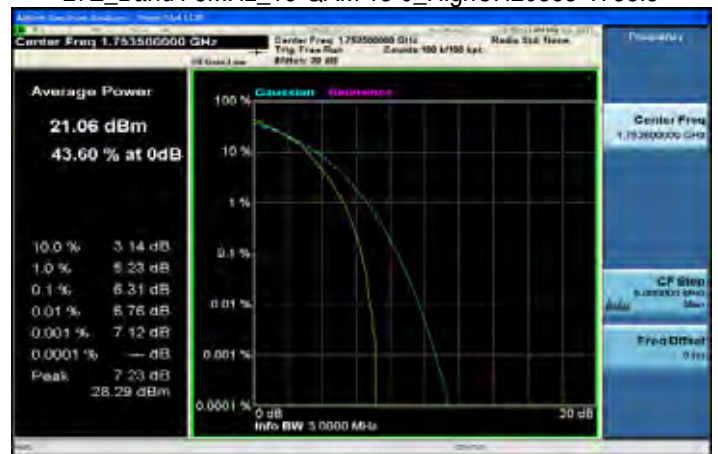
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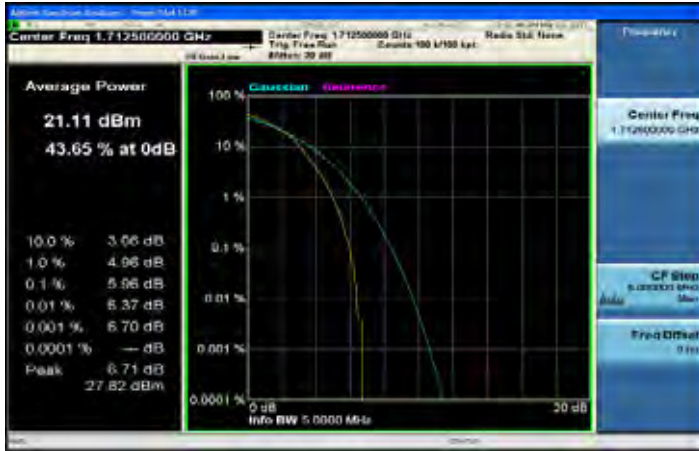
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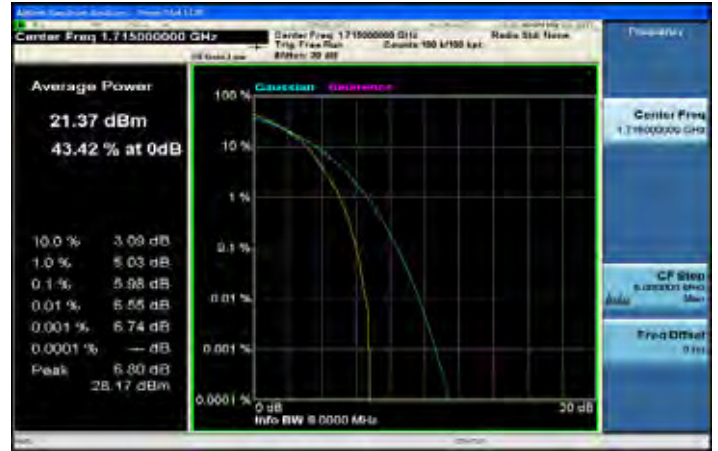
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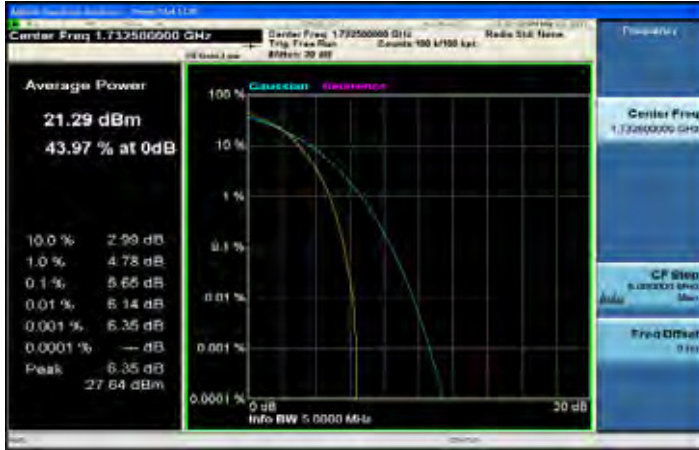
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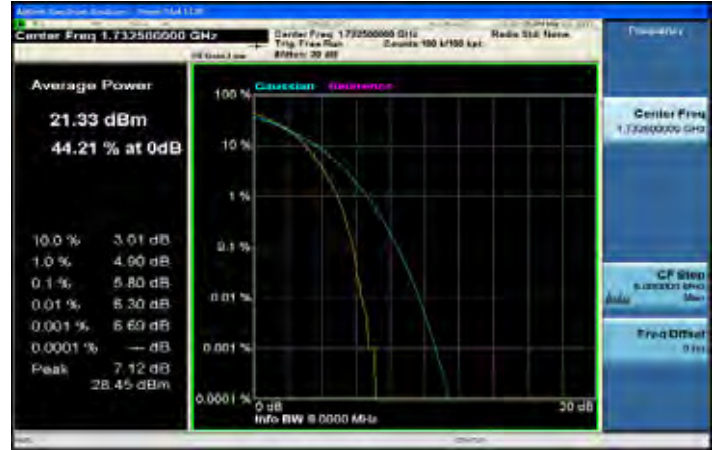
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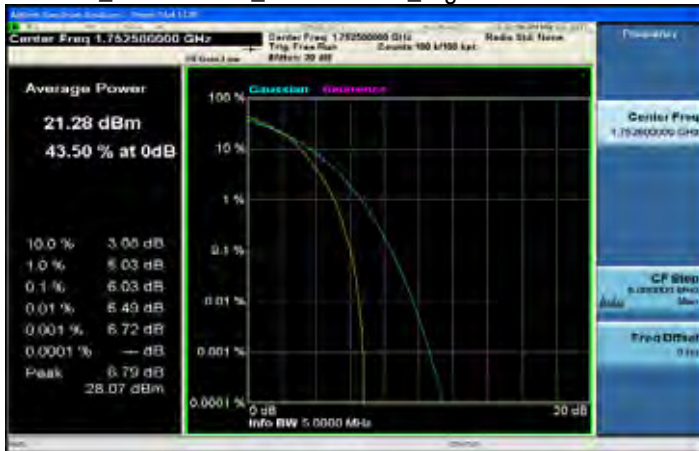
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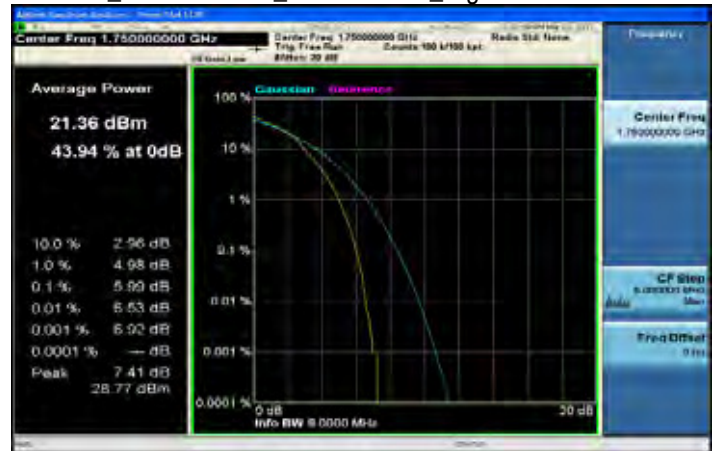
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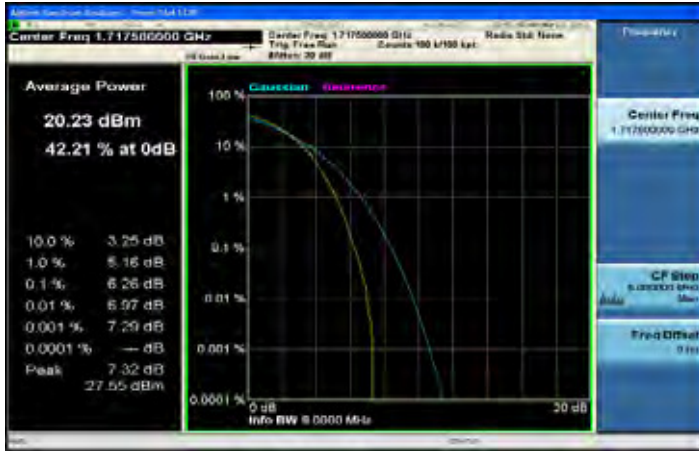
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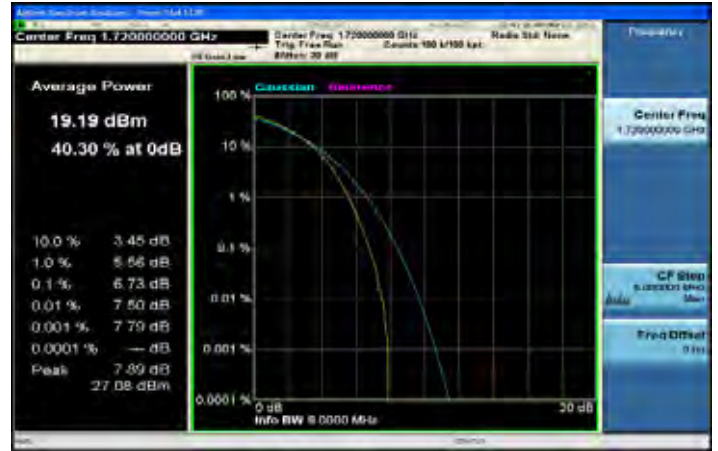
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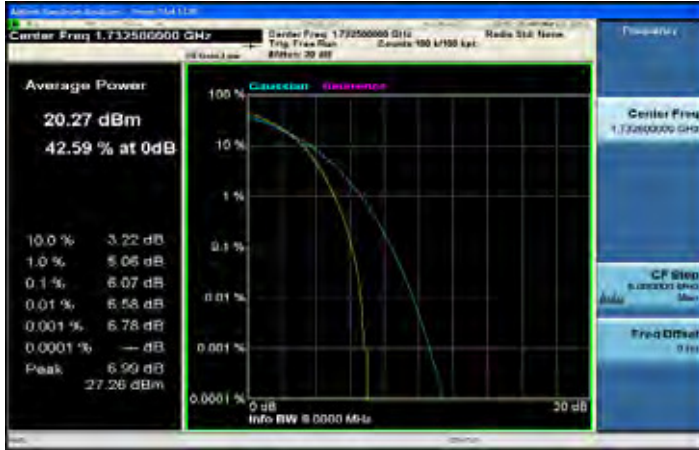
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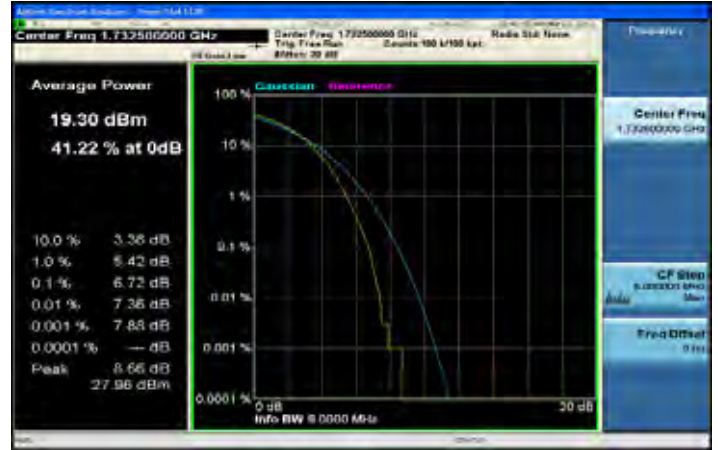
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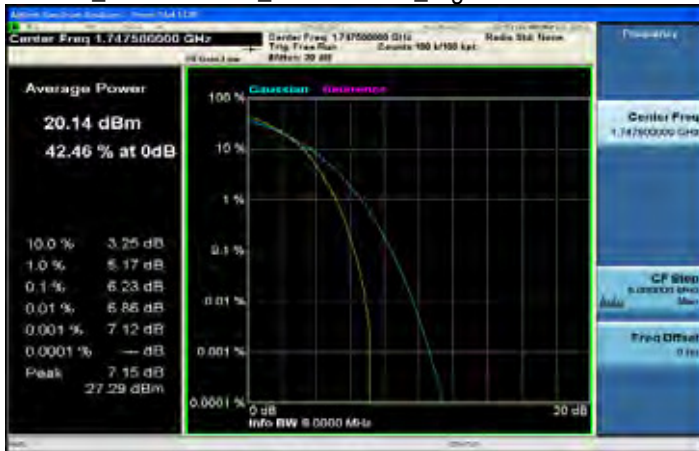
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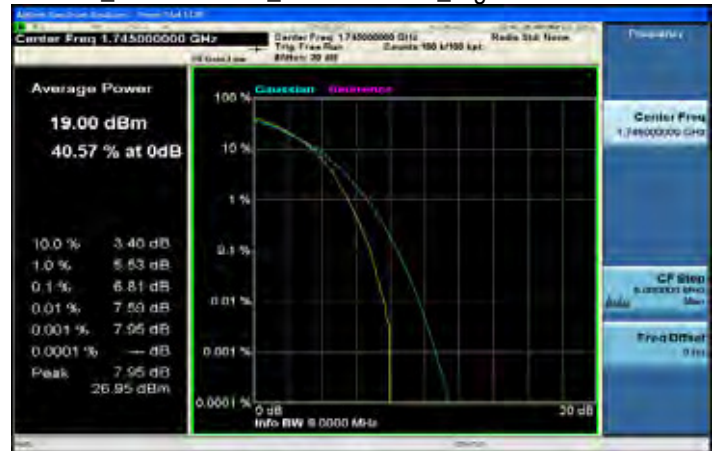
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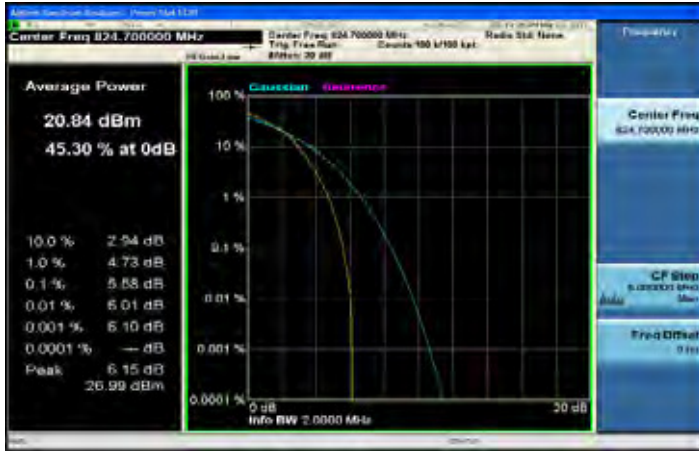
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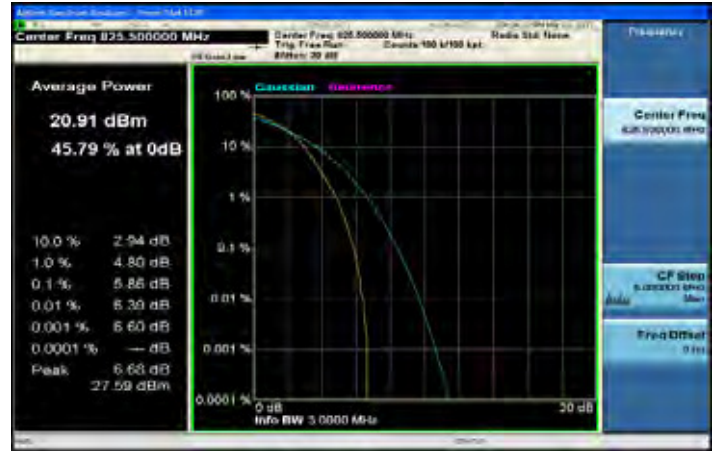
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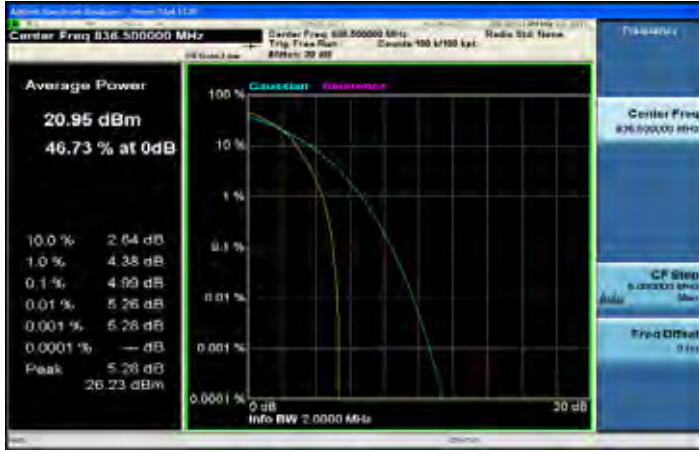
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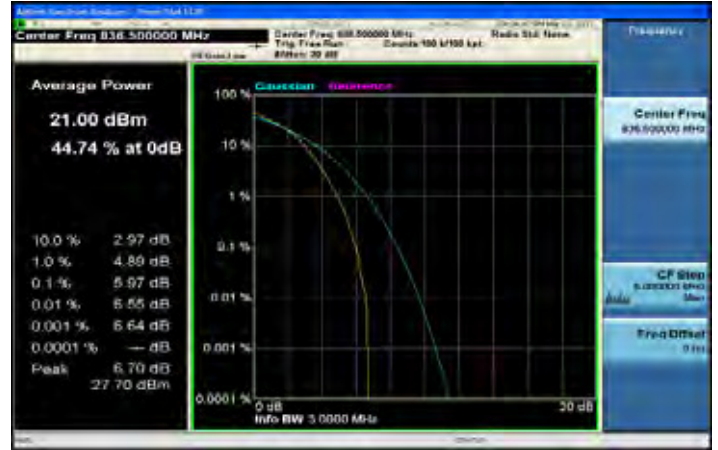
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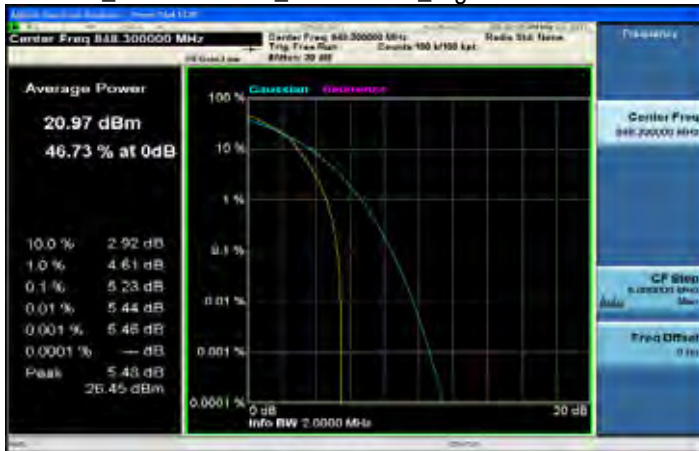
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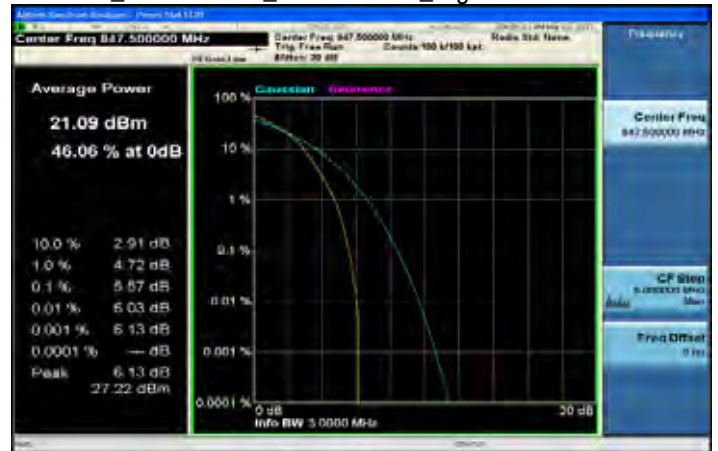
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LTE\_Band5 3MHz\_16-QAM 15\_0\_HighCH20635-847.5



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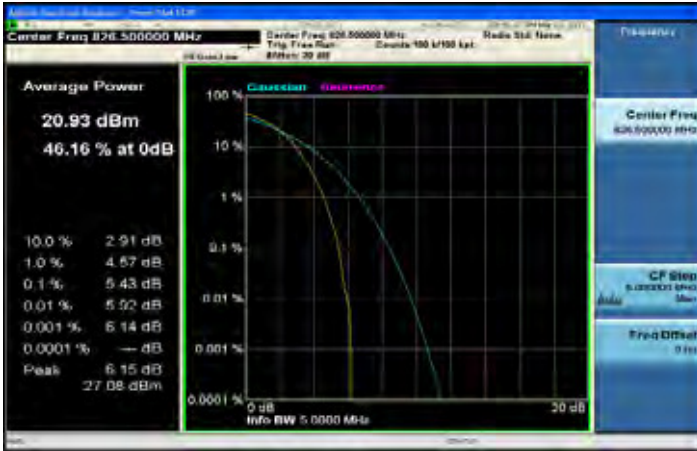
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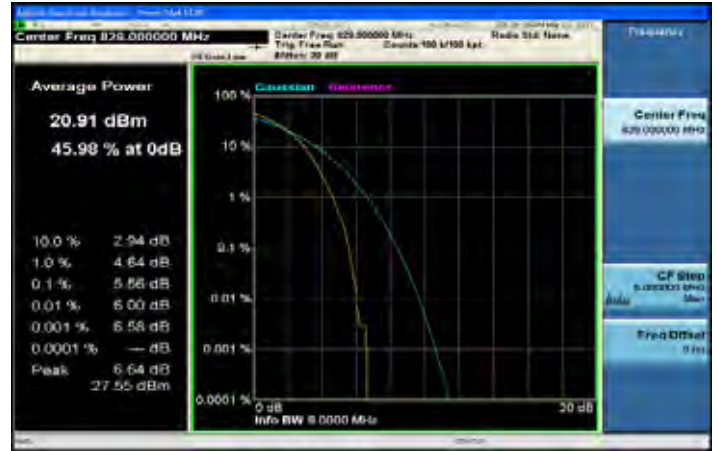
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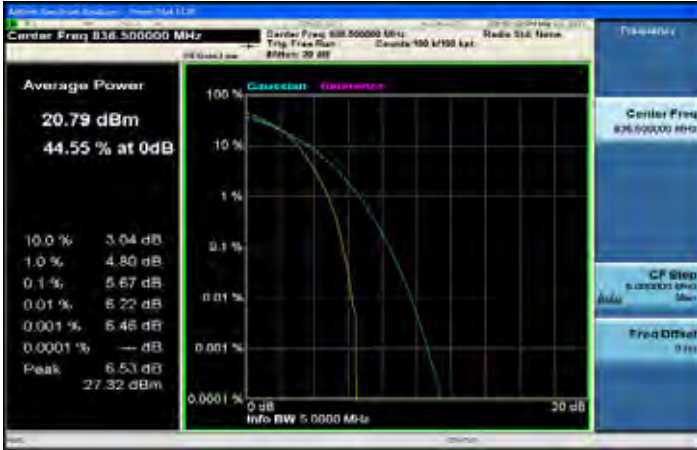
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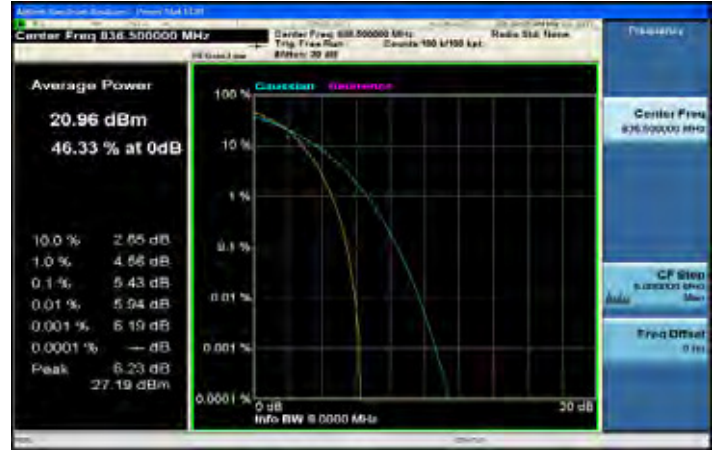
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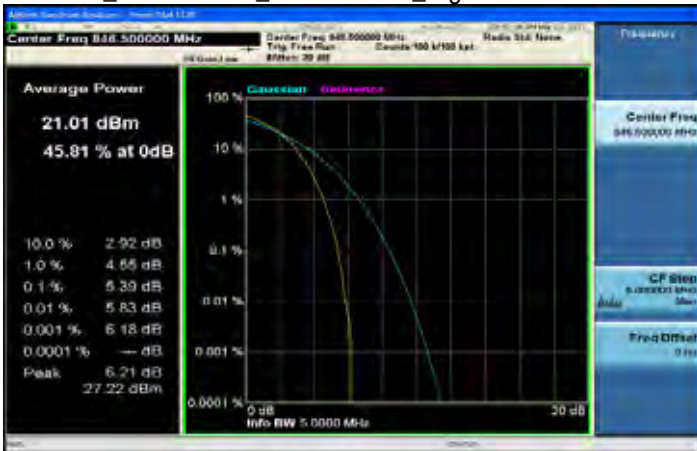
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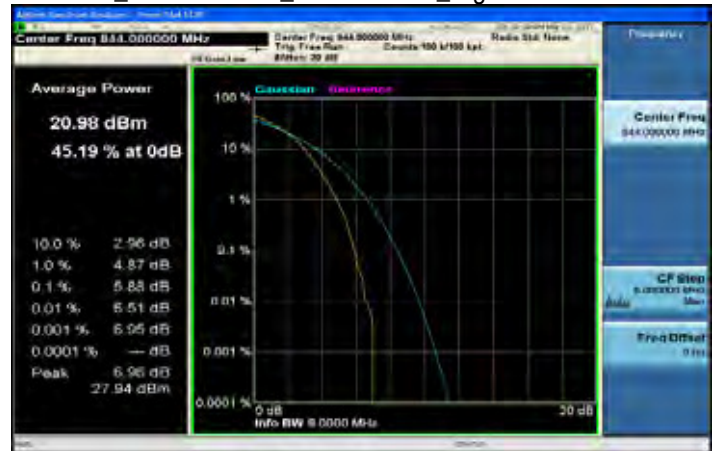
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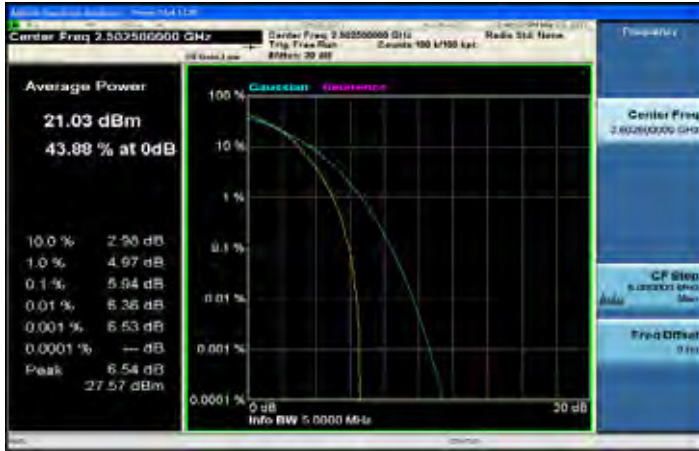
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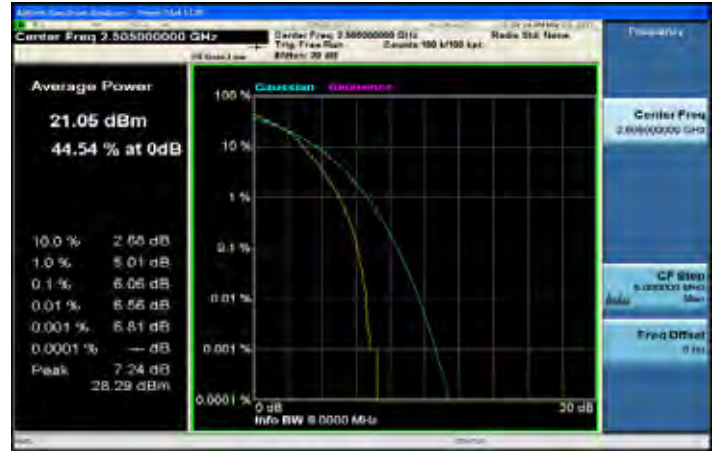
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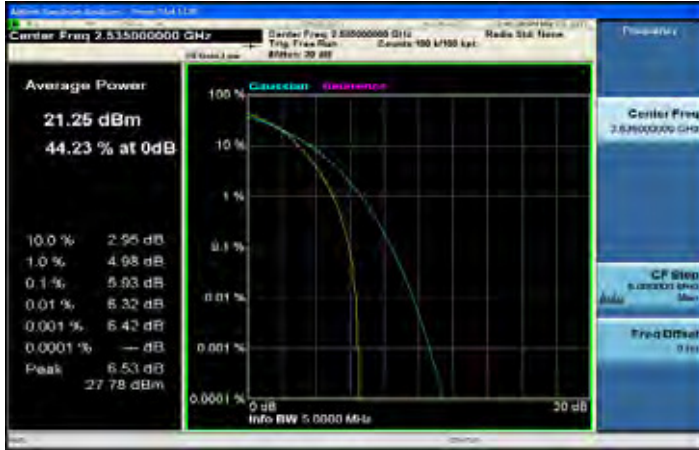
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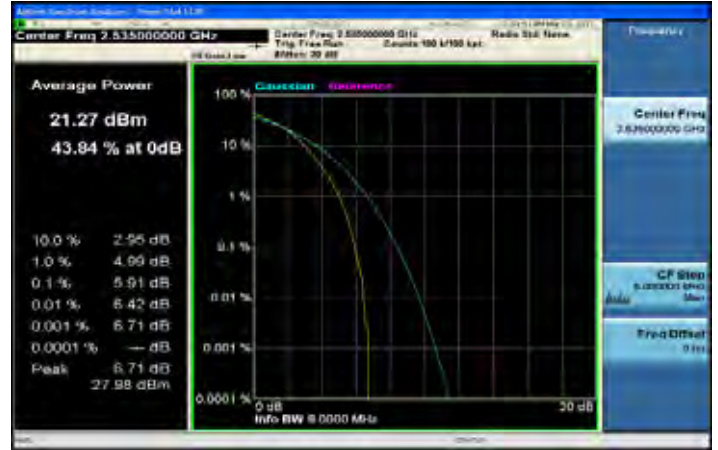
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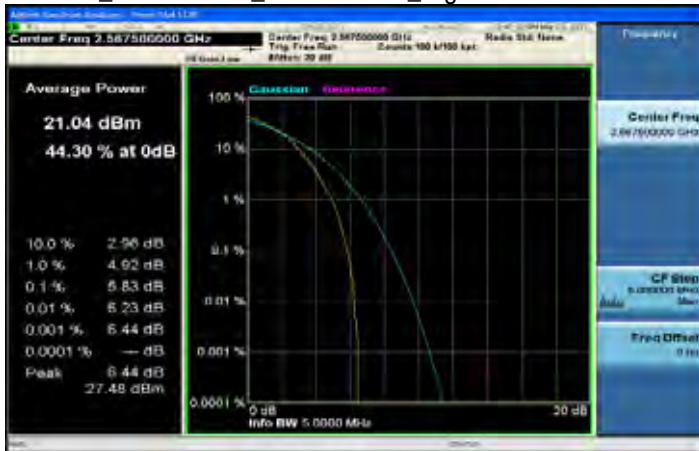
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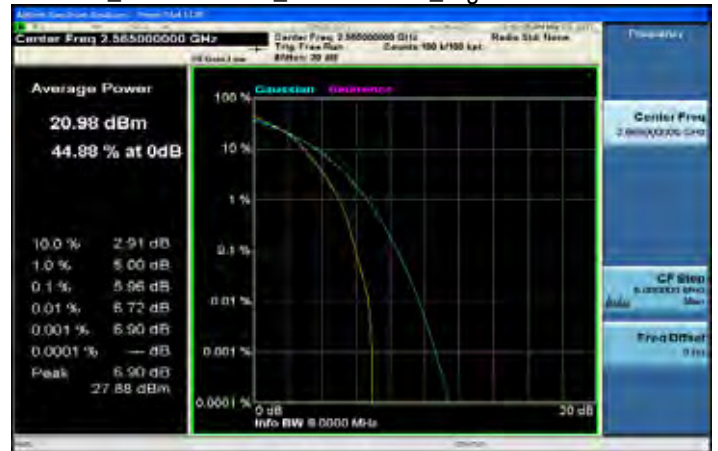
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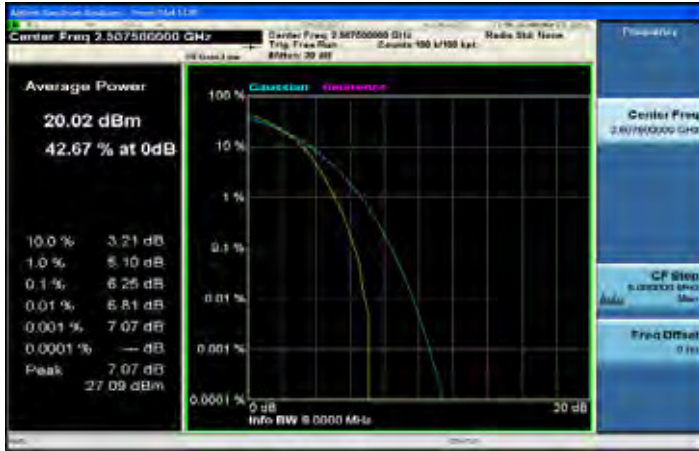
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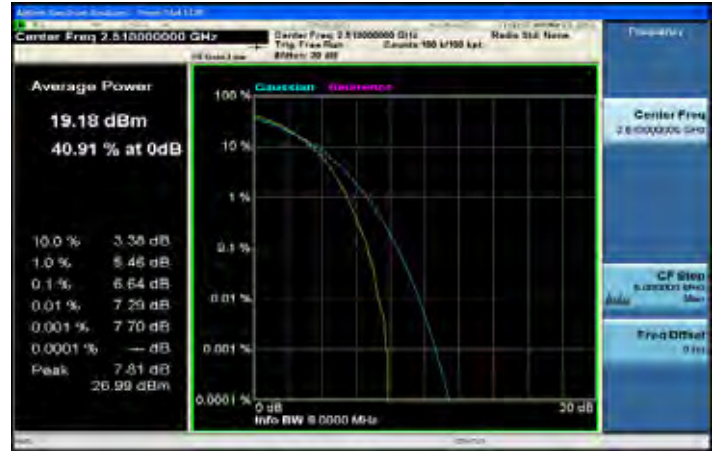
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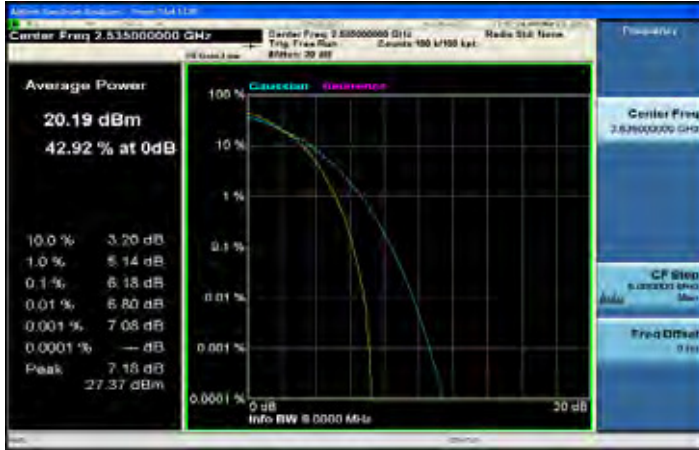
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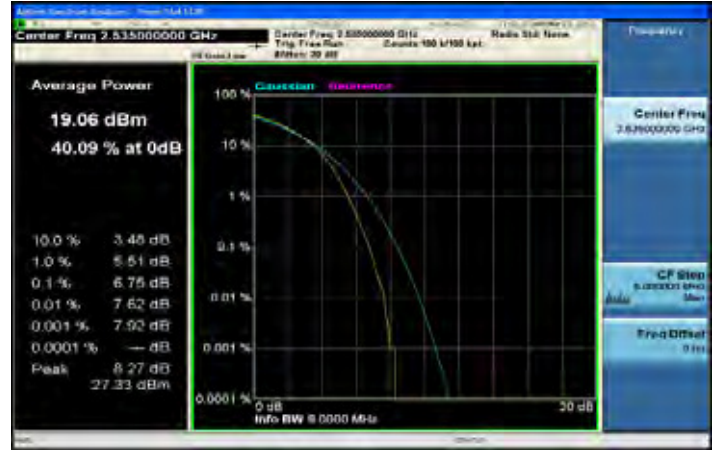
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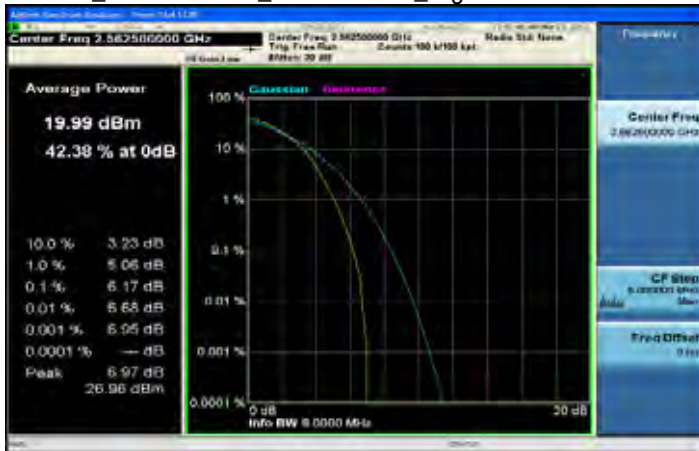
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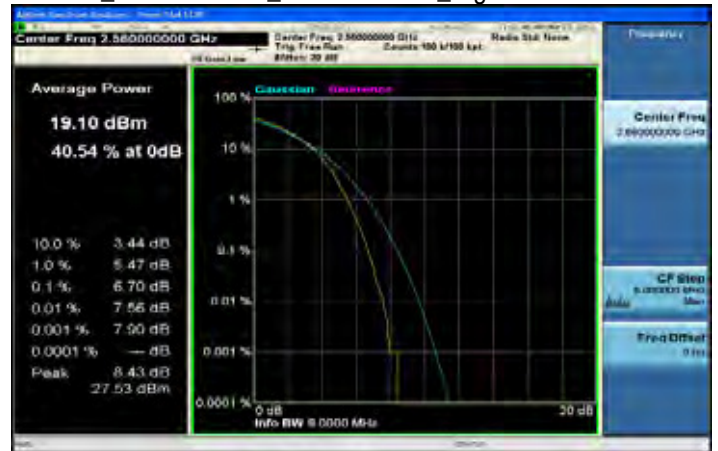
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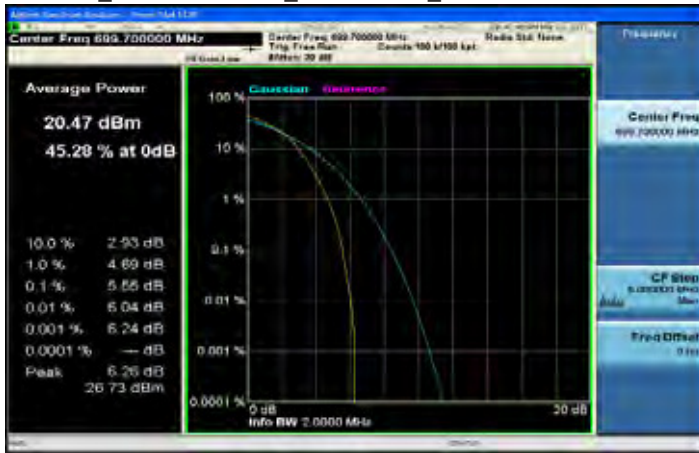
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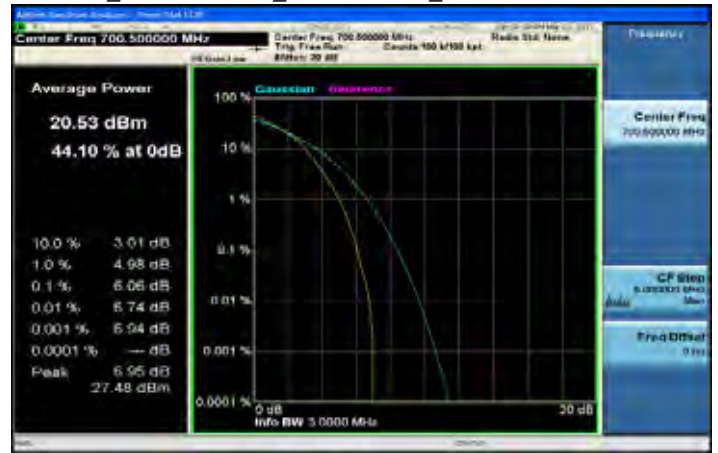
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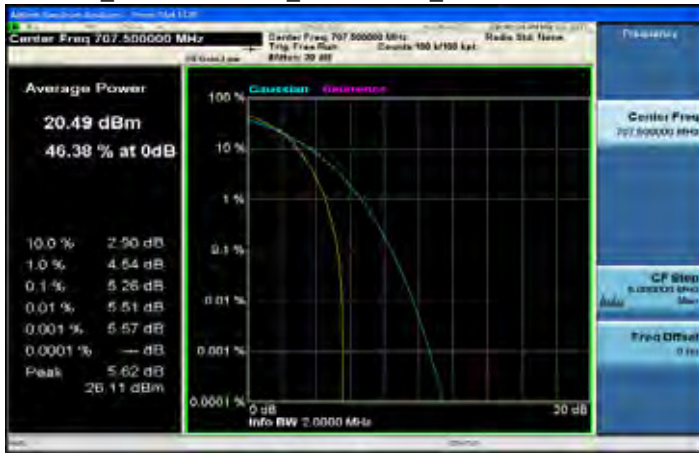
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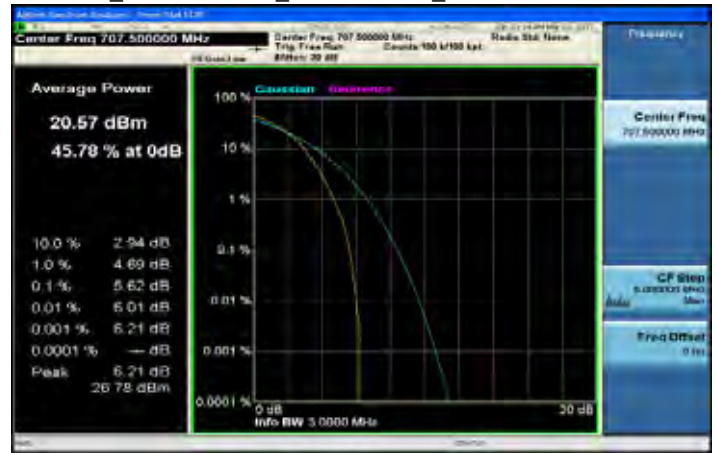
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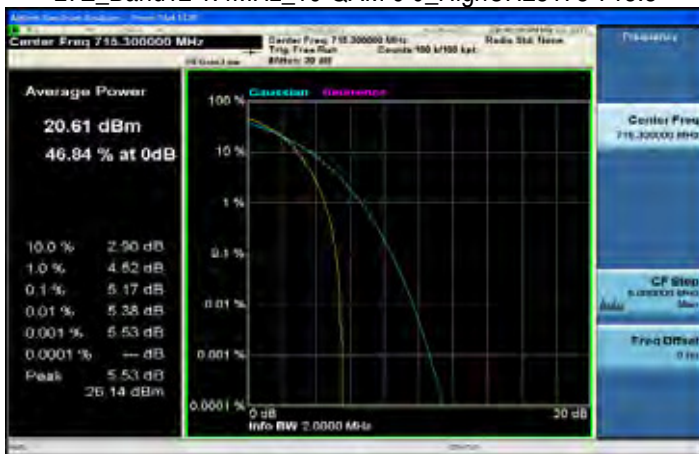
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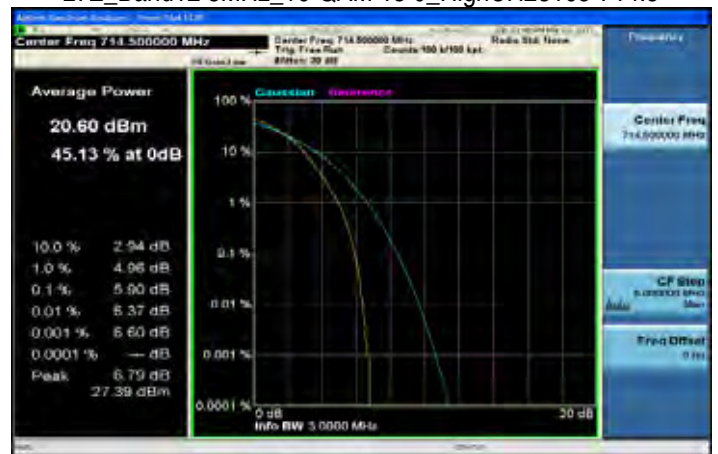
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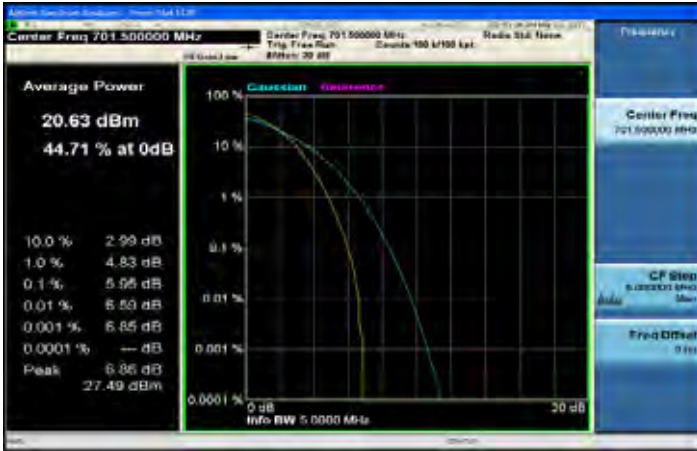
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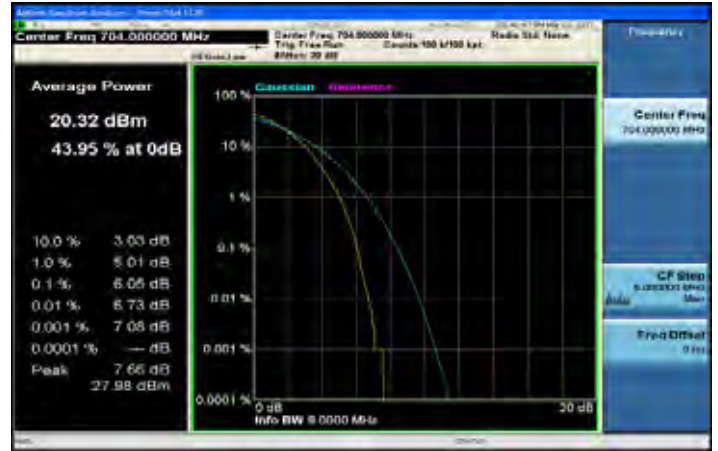
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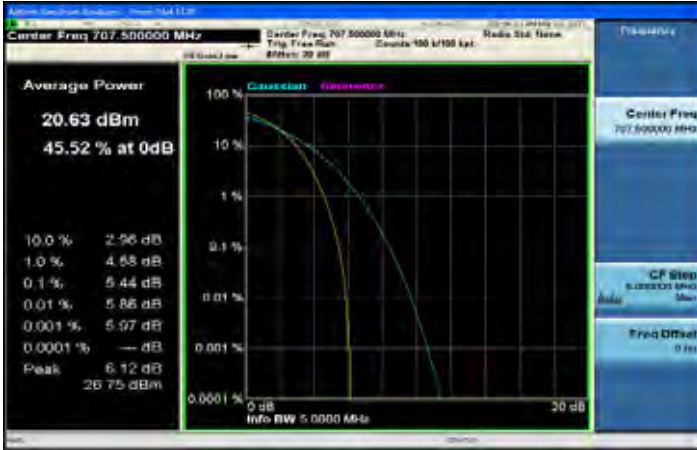
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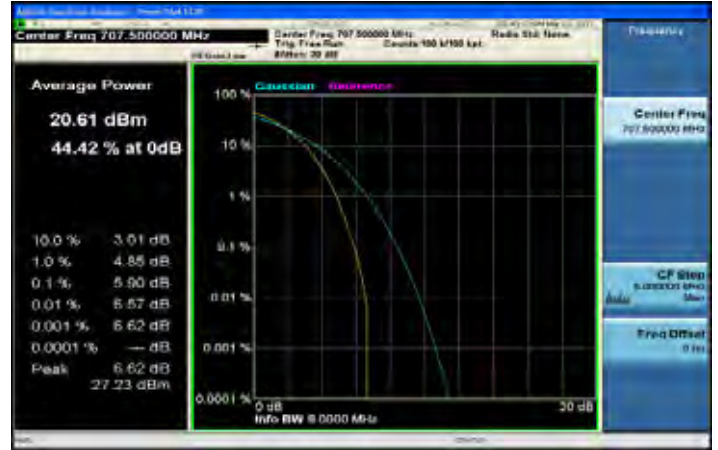
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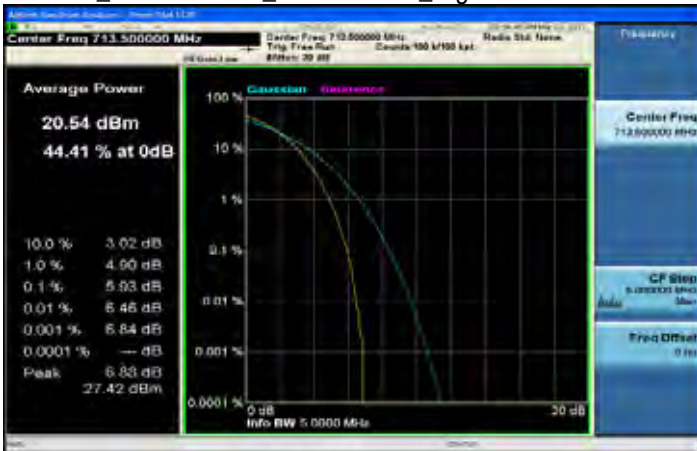
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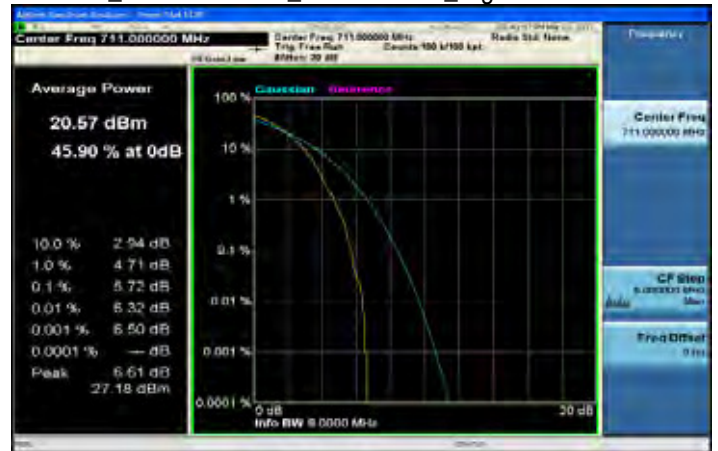
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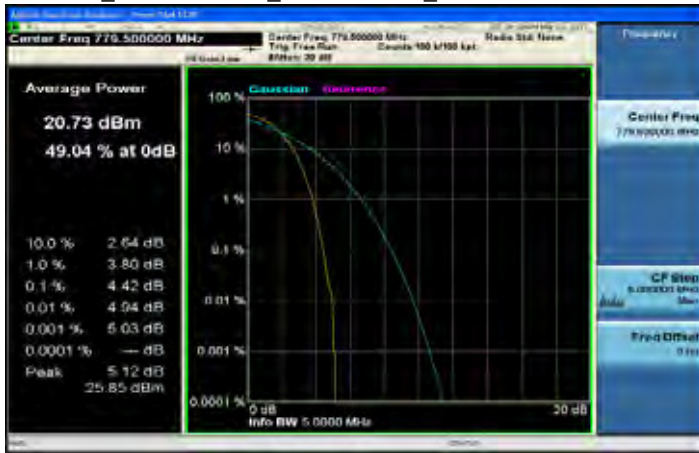
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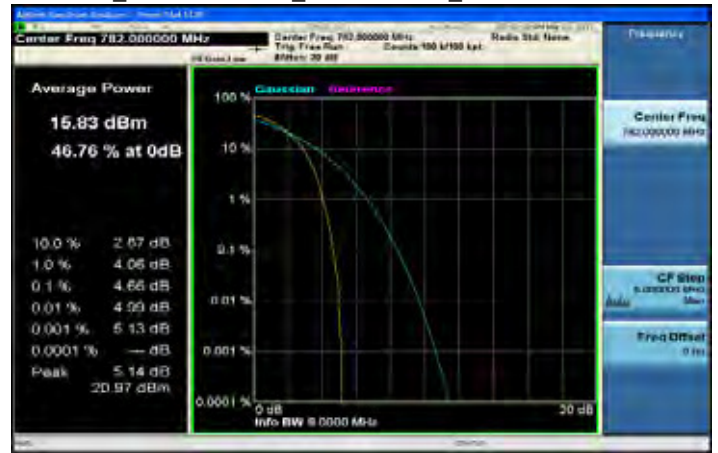
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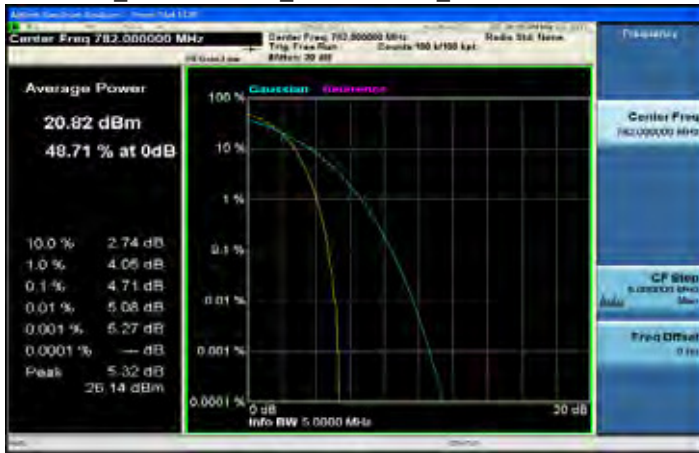
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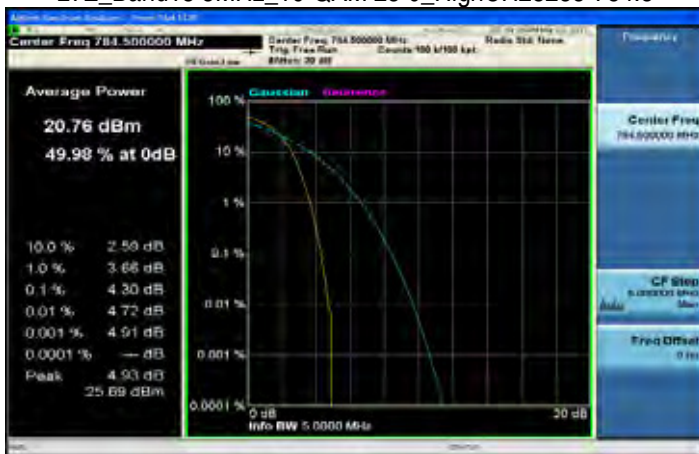
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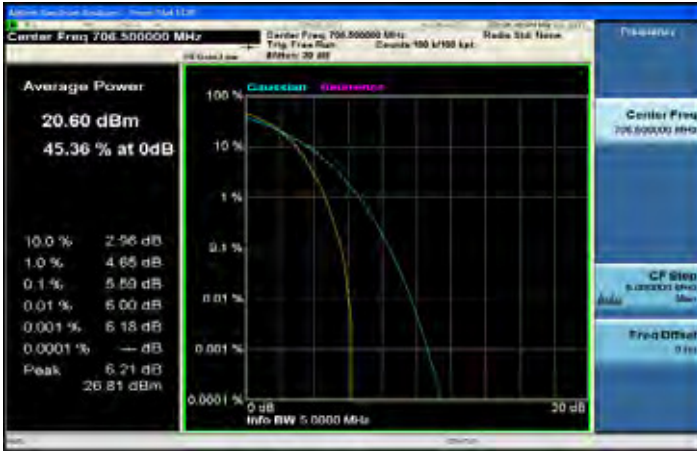
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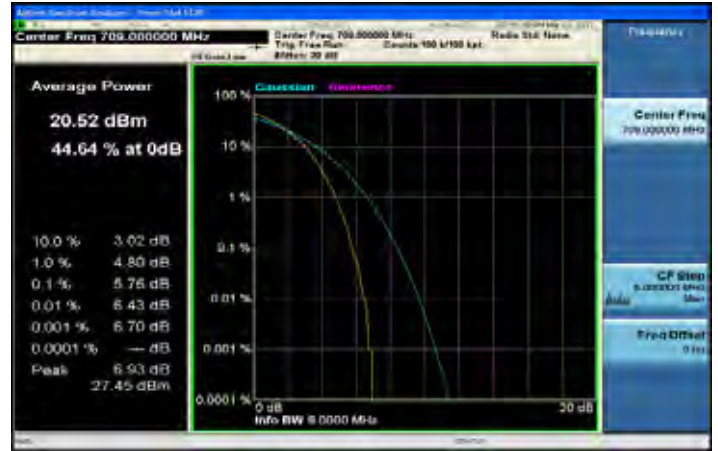
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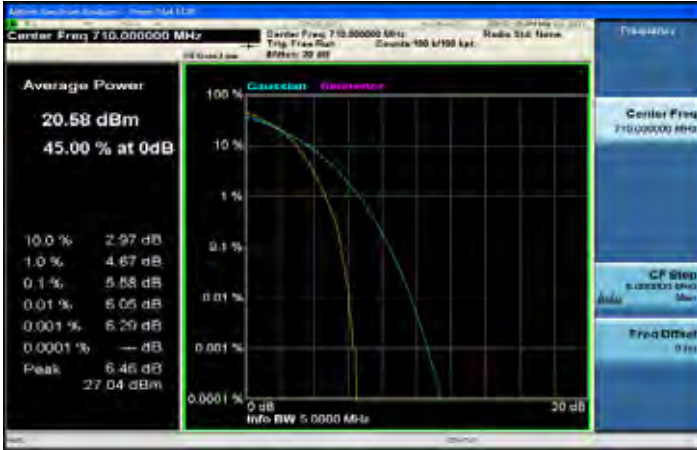
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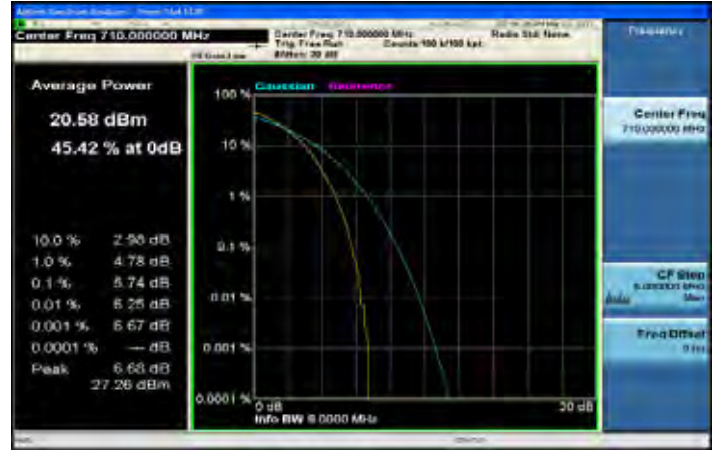
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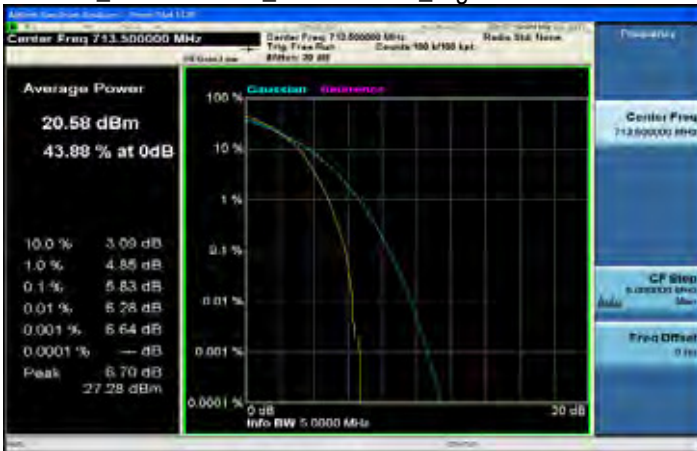
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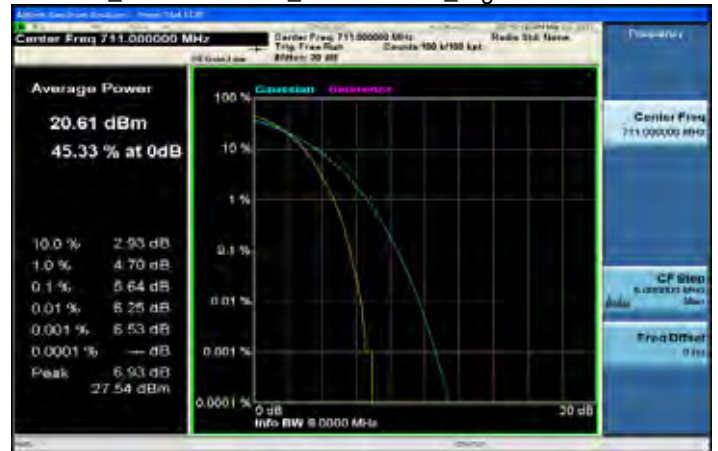
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