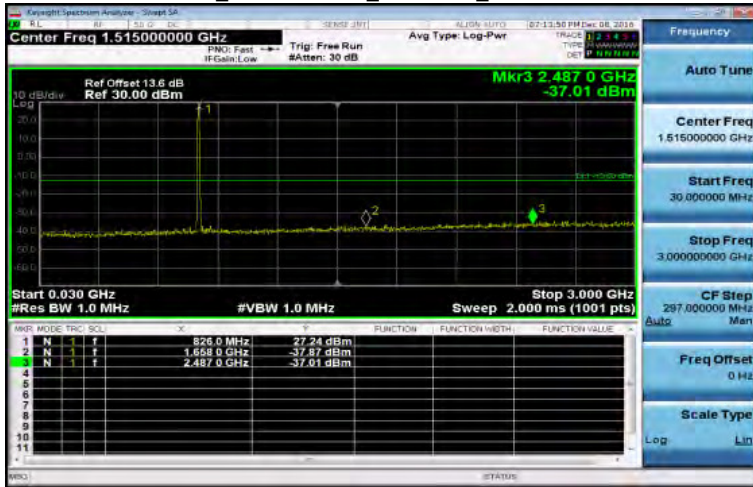
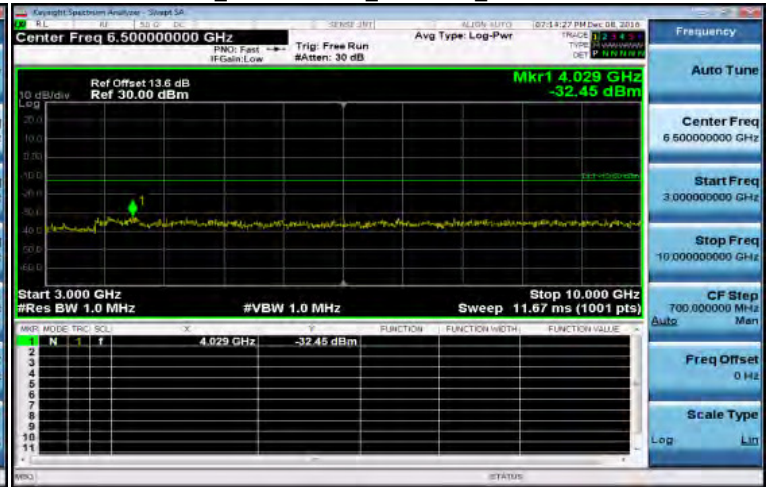


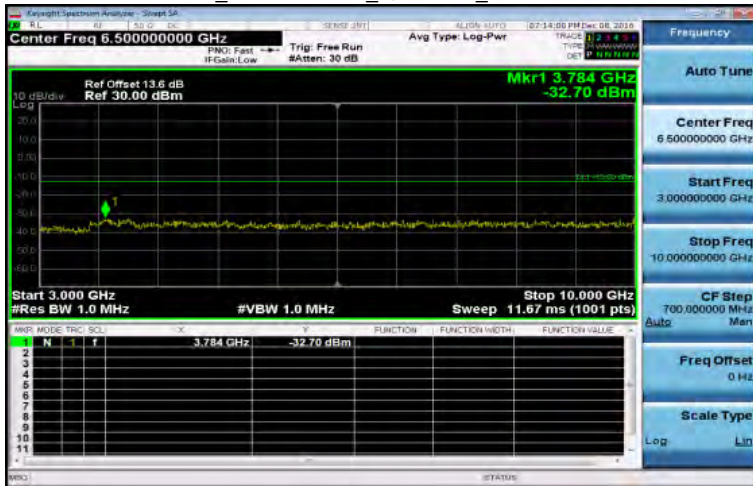
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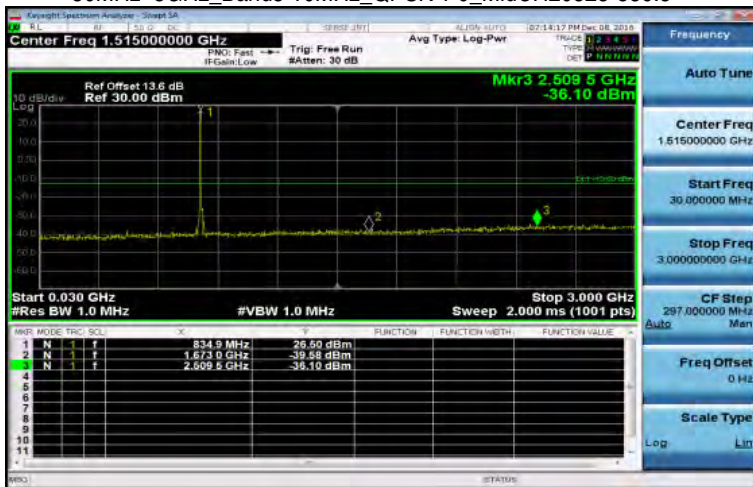
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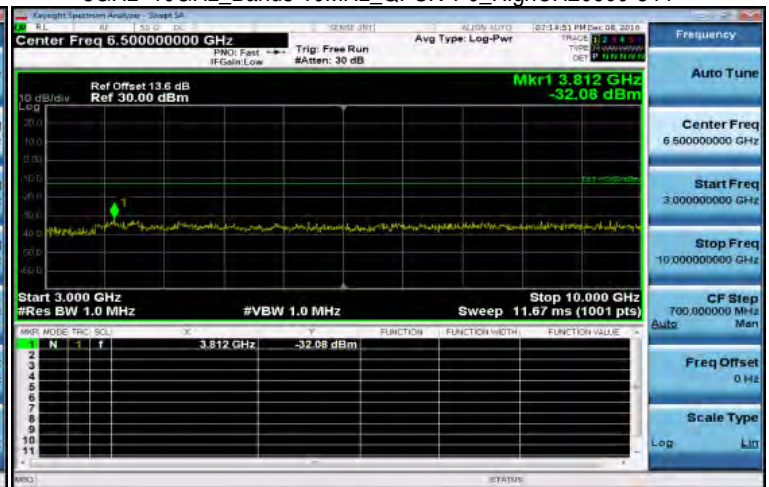
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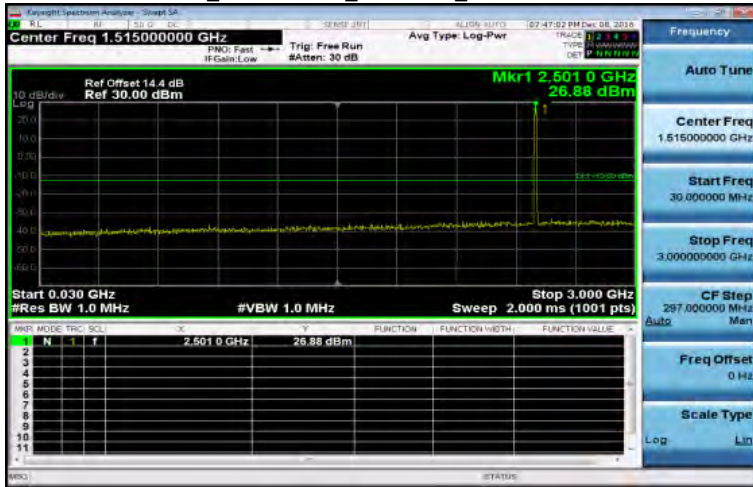
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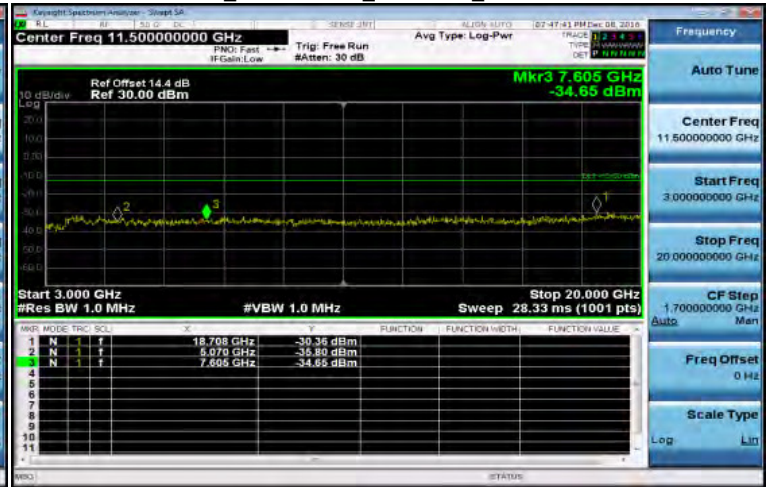
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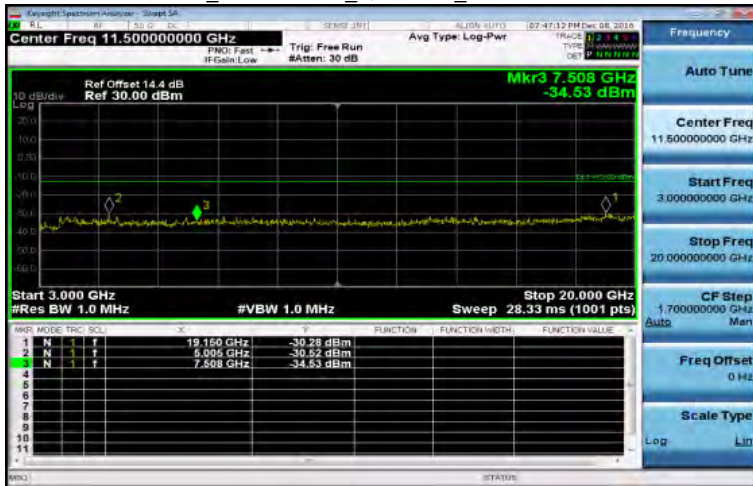
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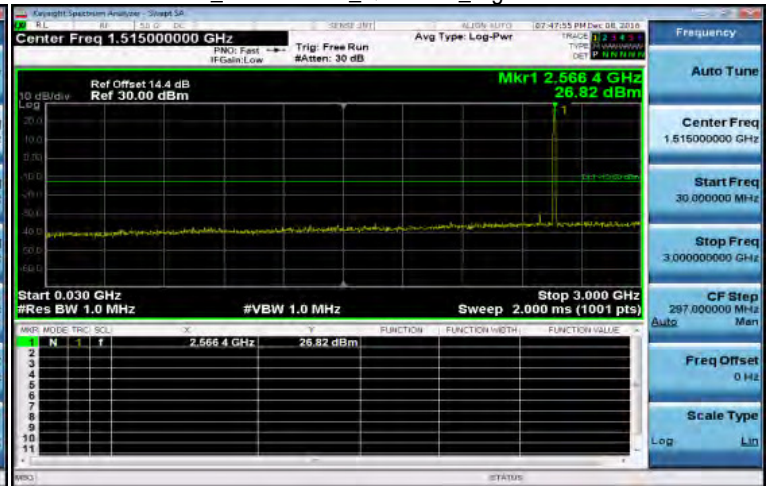
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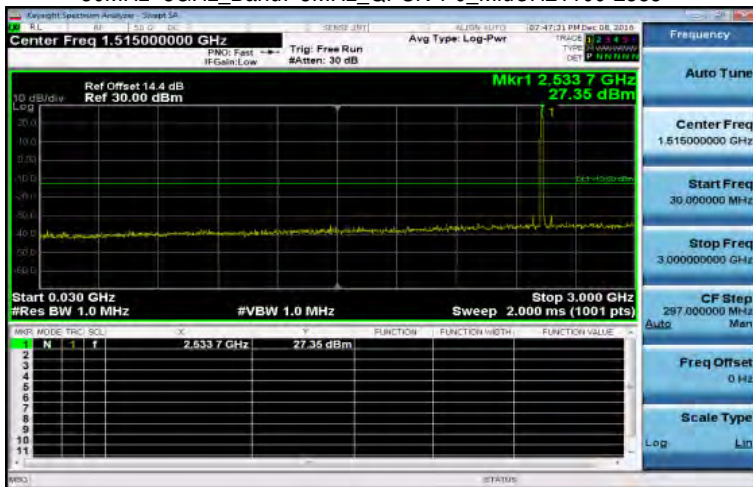
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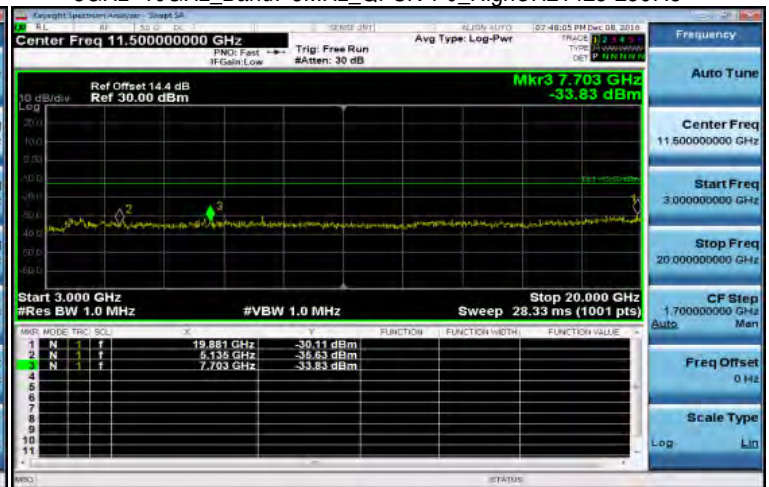
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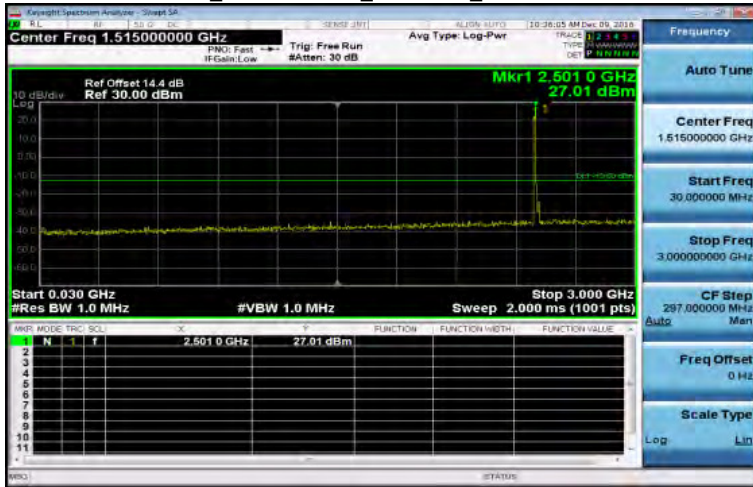
3GHz~10GHz_Band7 5MHz_QPSK 1 0_HighCH21425-2567.5



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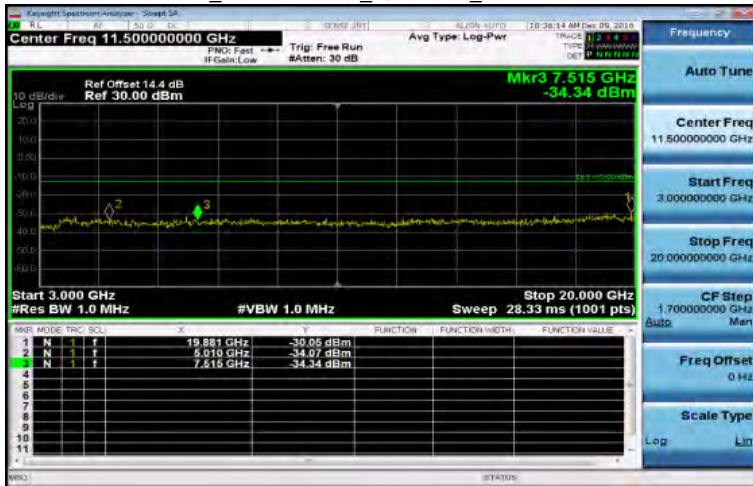
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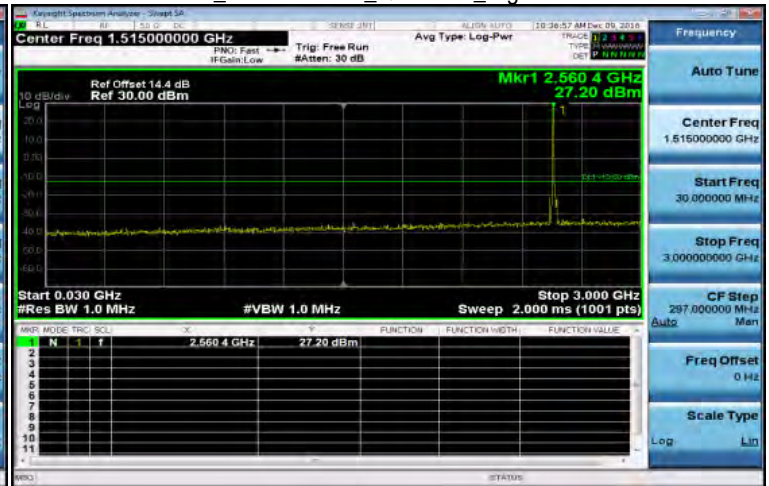
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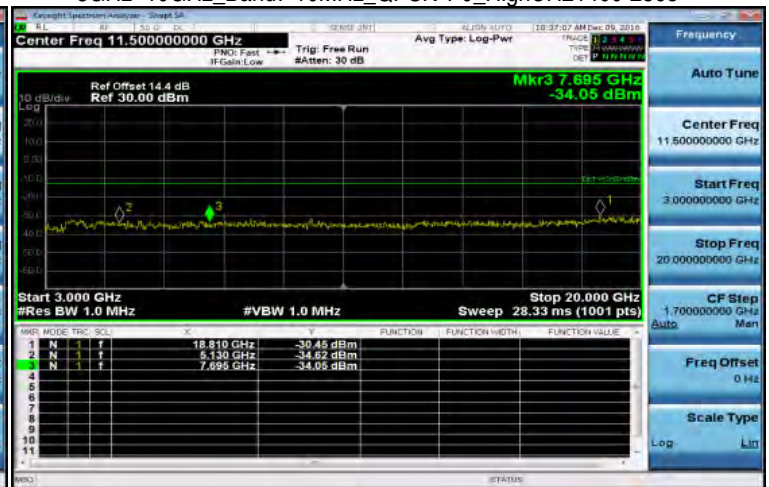
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30MHz~3GHz_Band7 10MHz_QPSK 1 0_MidCH21100-2535



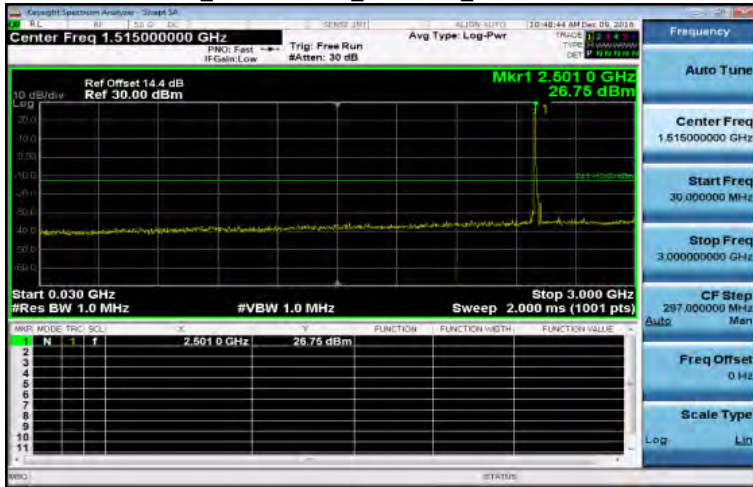
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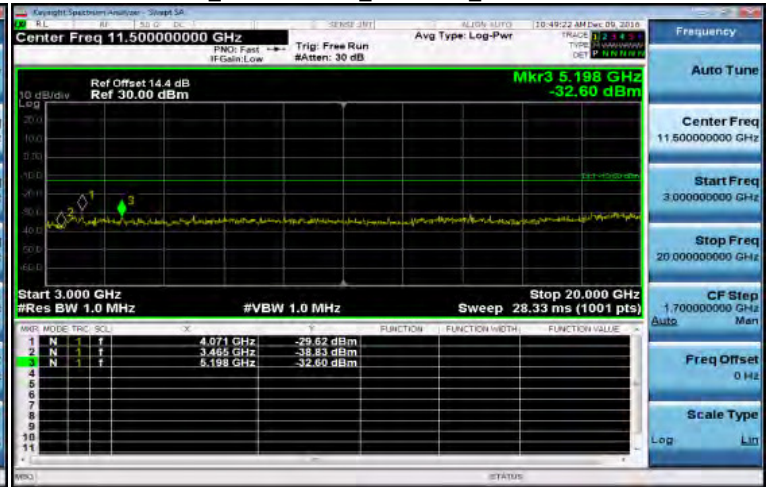
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30MHz~3GHz_Band7 15MHz_QPSK 1_0_LowCH20825-2507.5



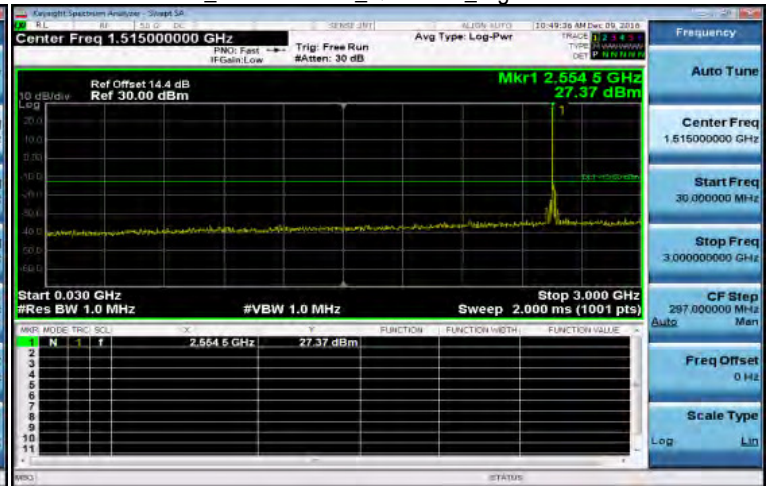
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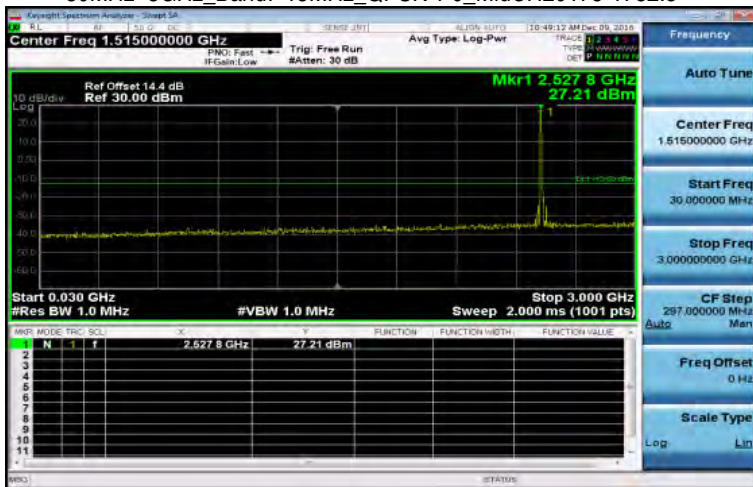
3GHz~10GHz_Band7 15MHz_QPSK 1_0_LowCH20825-2507.5



30MHz~3GHz_Band7 15MHz_QPSK 1_0_HighCH21375-2562.5



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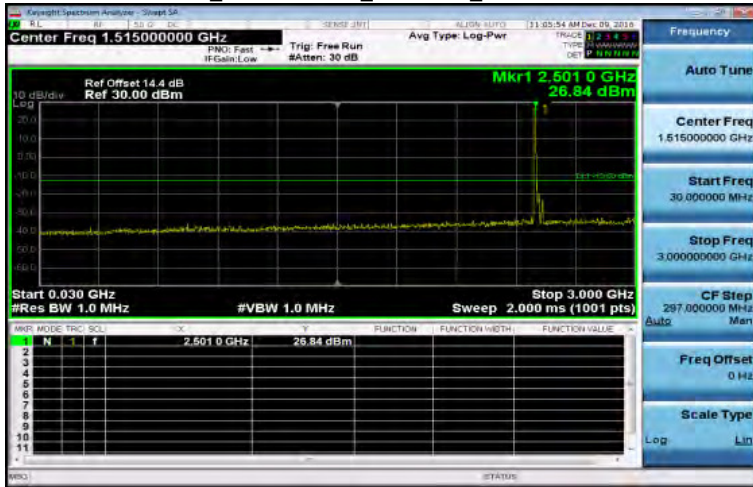


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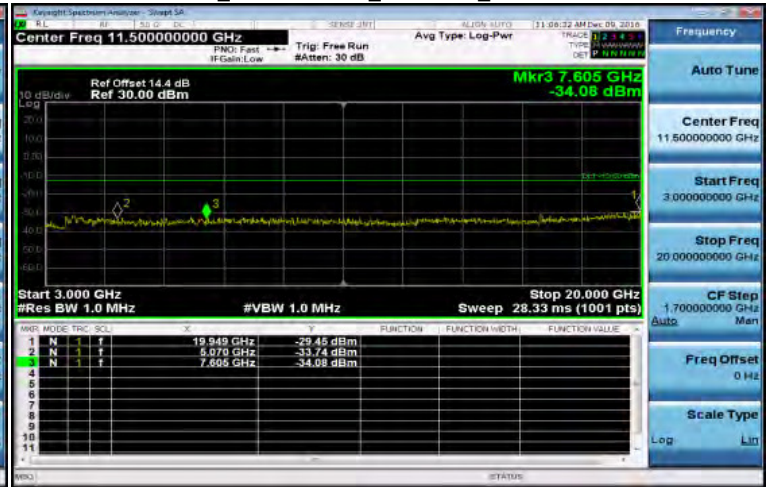
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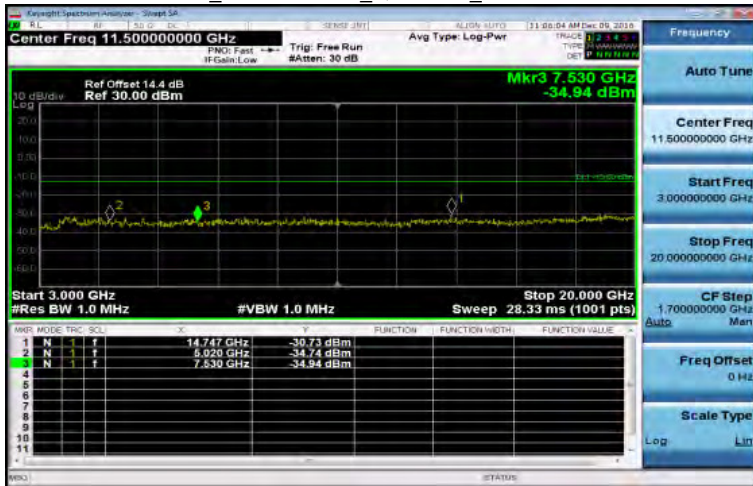
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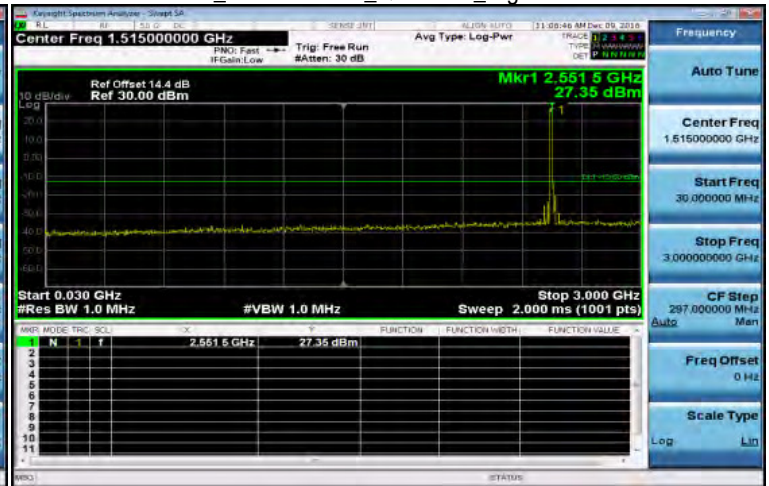
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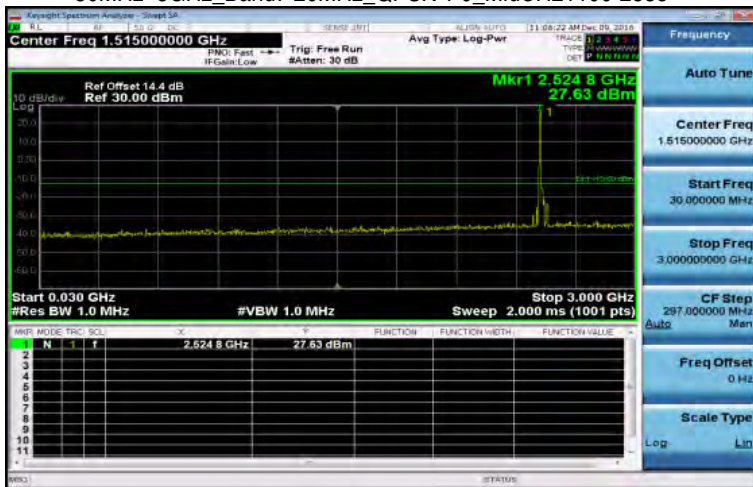
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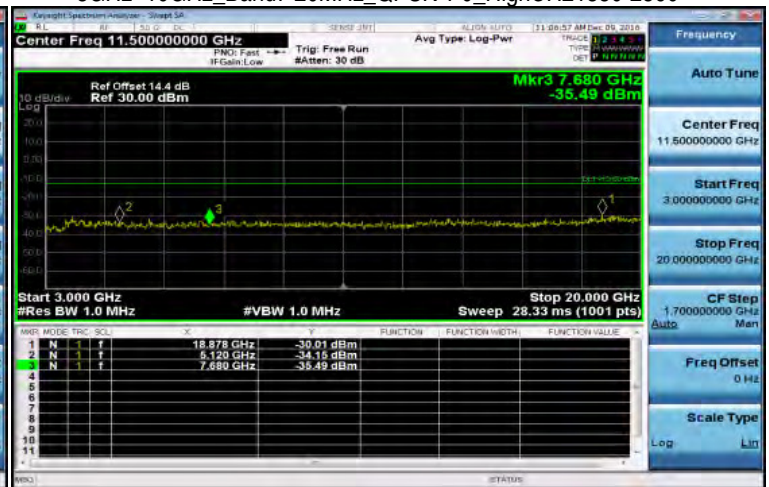
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30MHz~3GHz_Band7 20MHz_QPSK 1 0_MidCH21100-2535



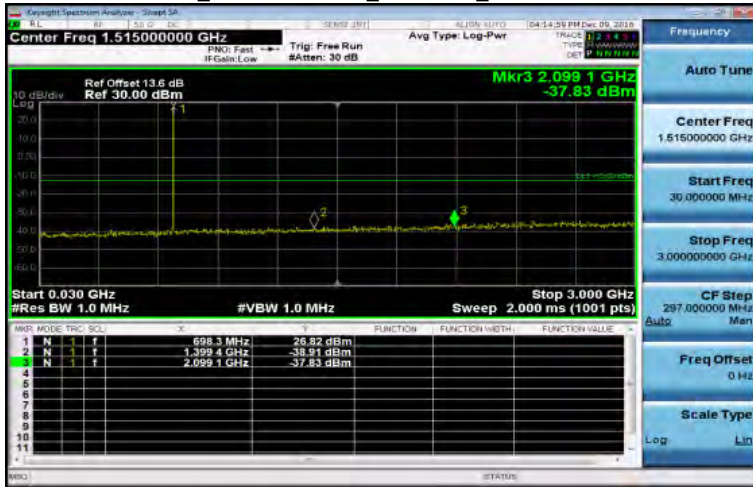
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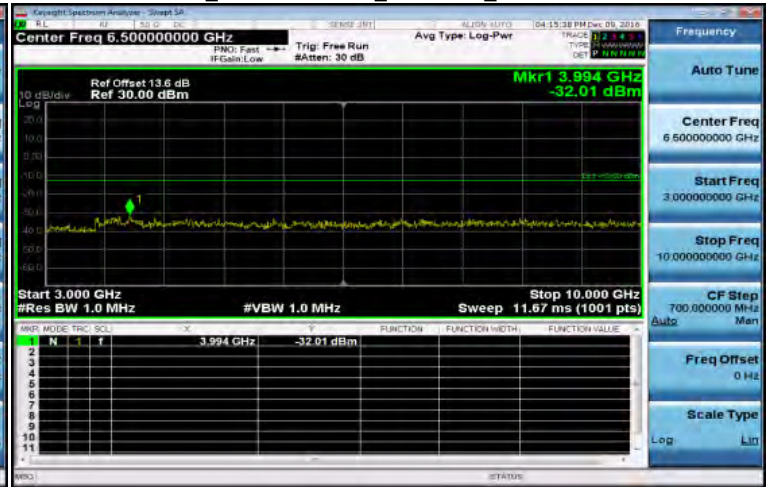
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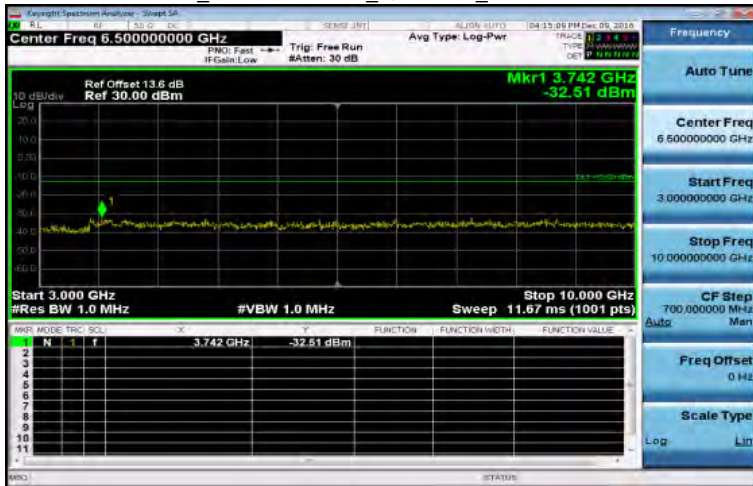
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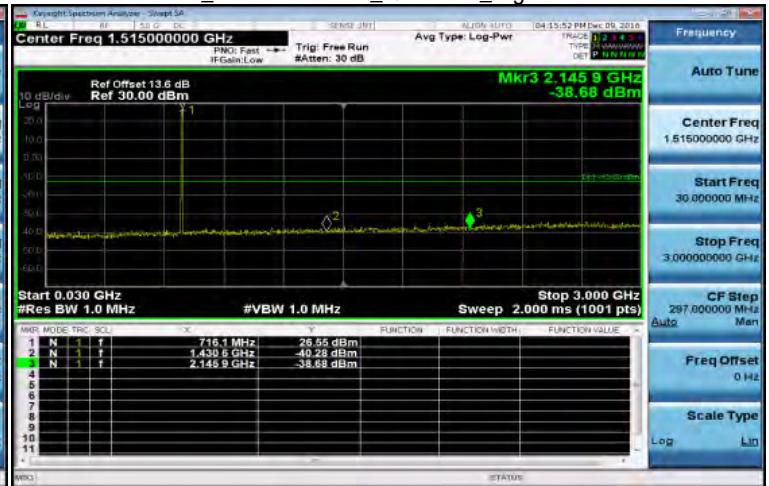
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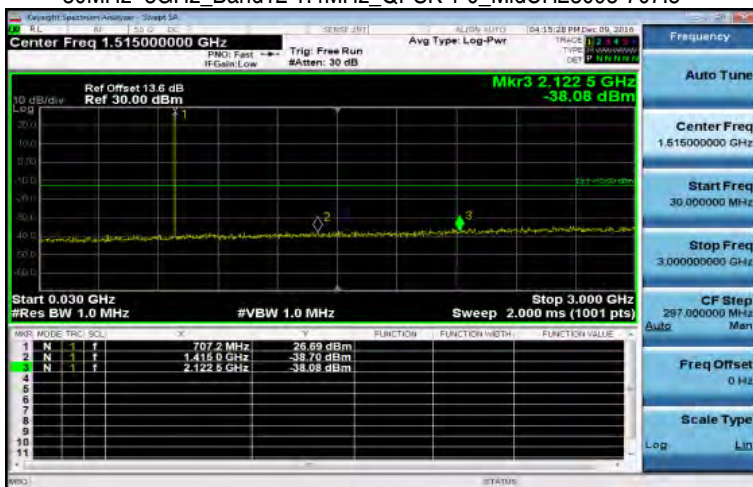
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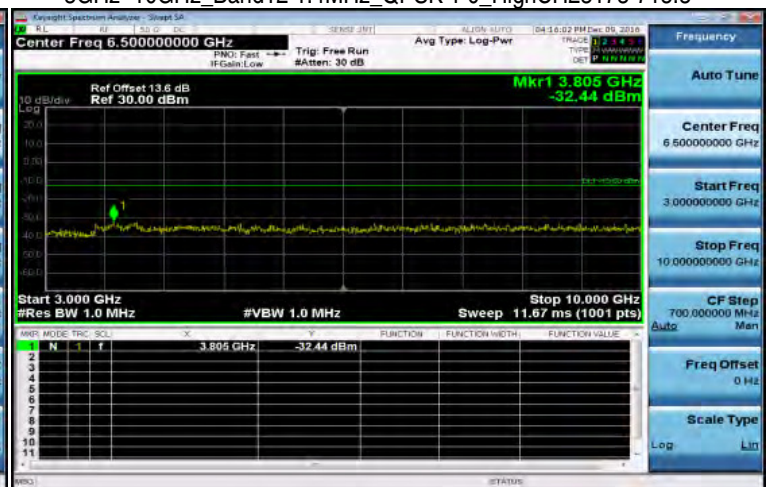
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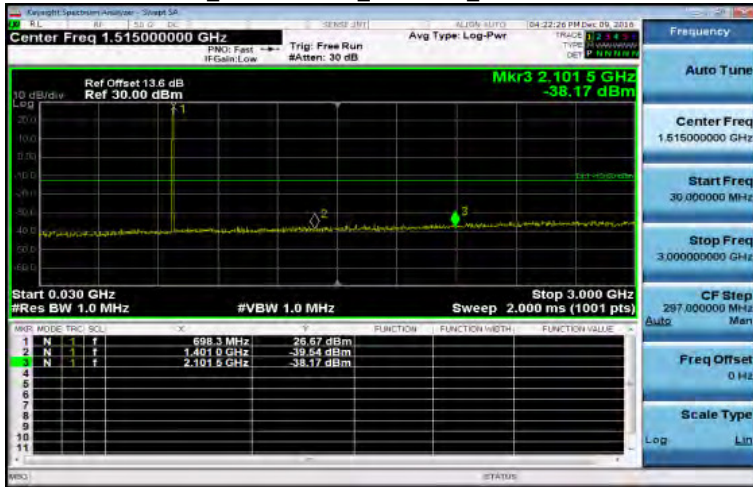
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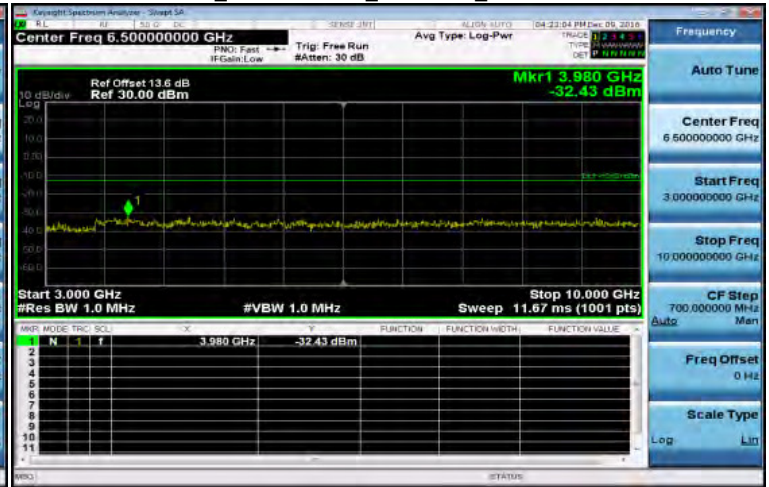
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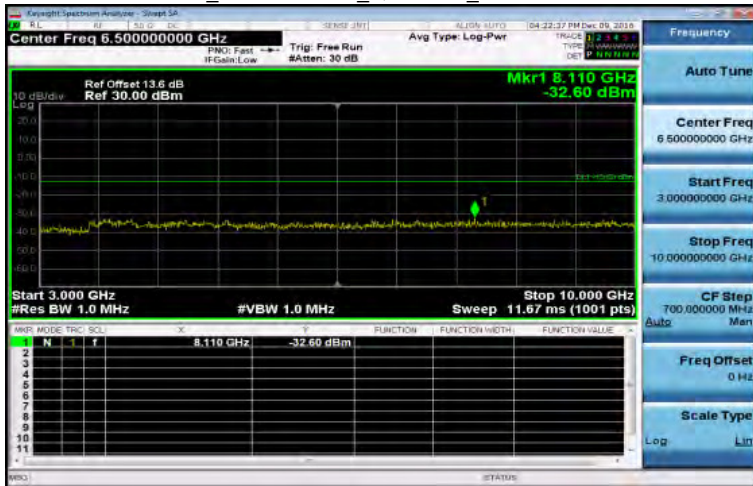
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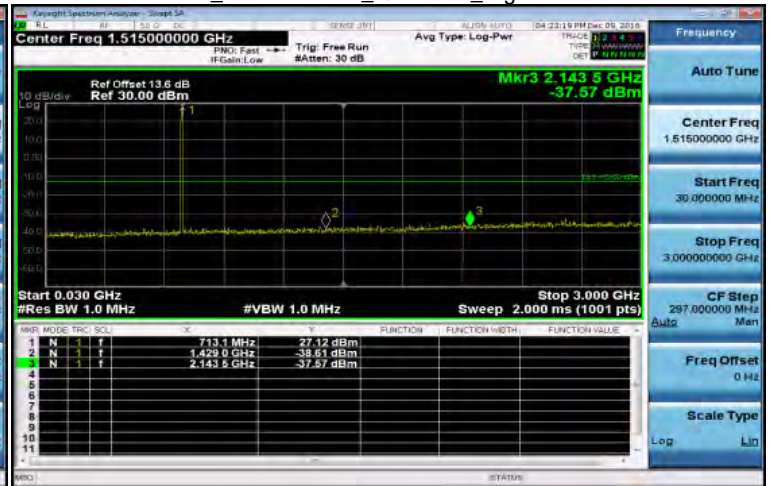
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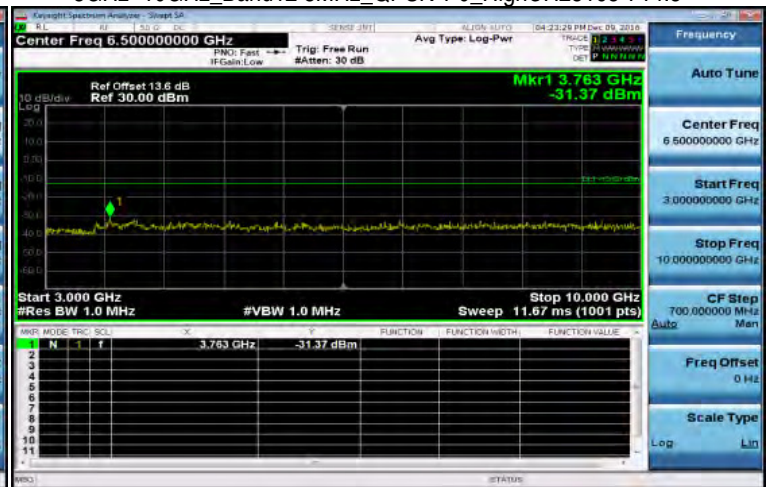
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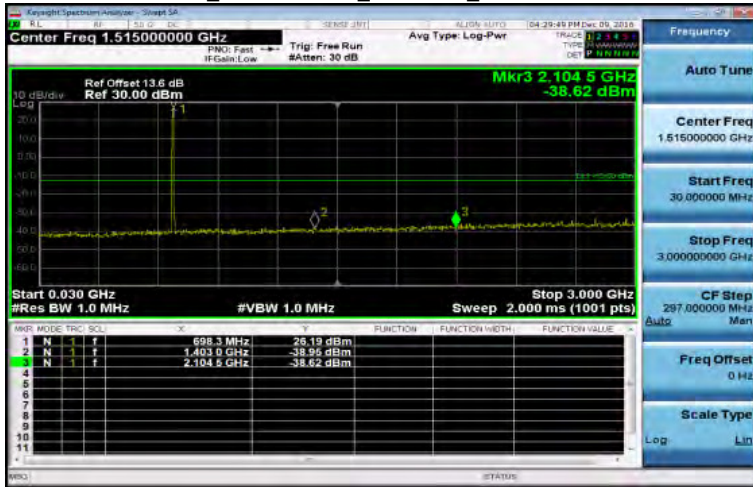
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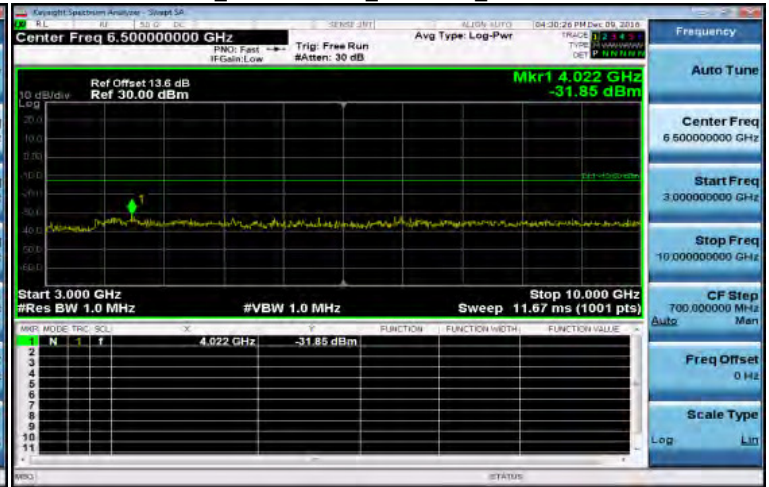
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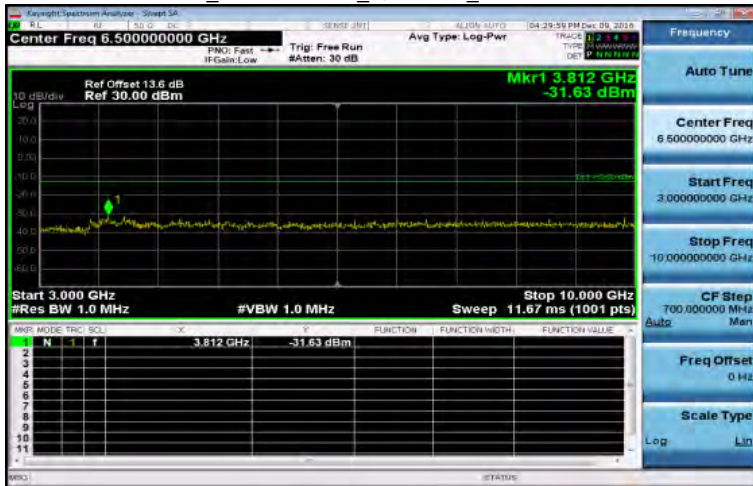
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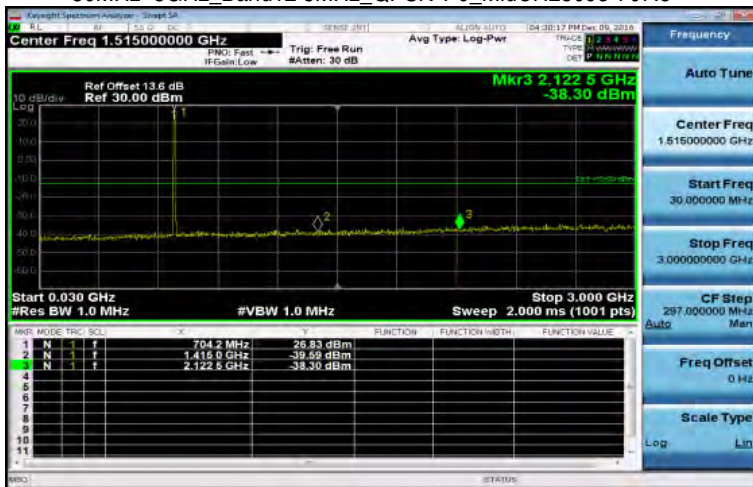
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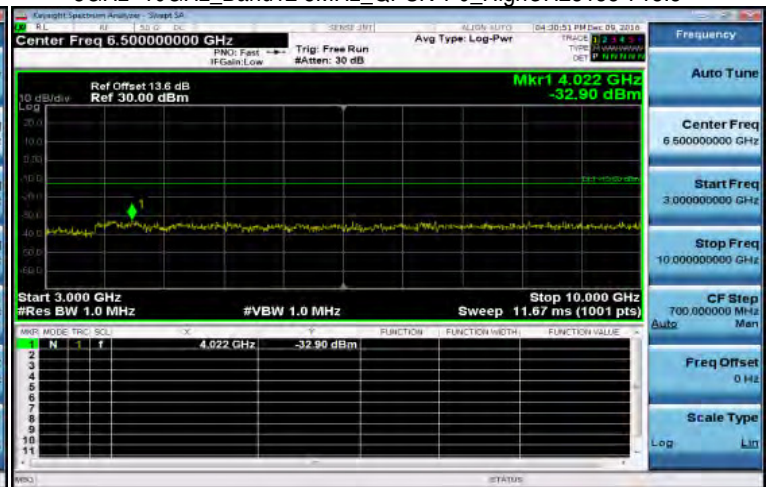
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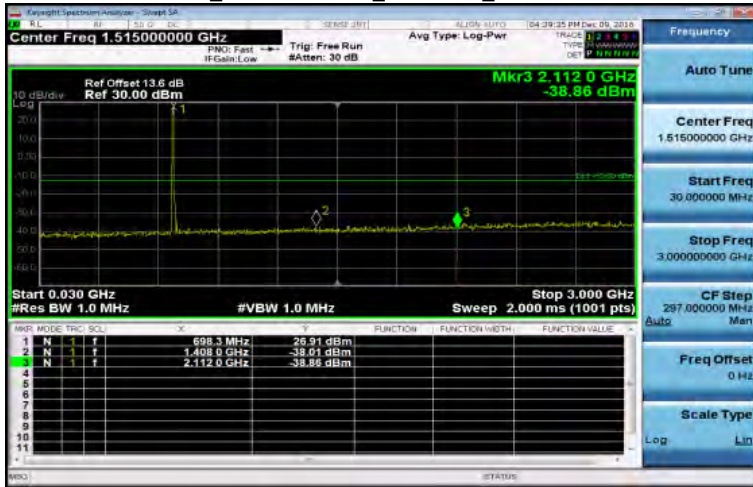
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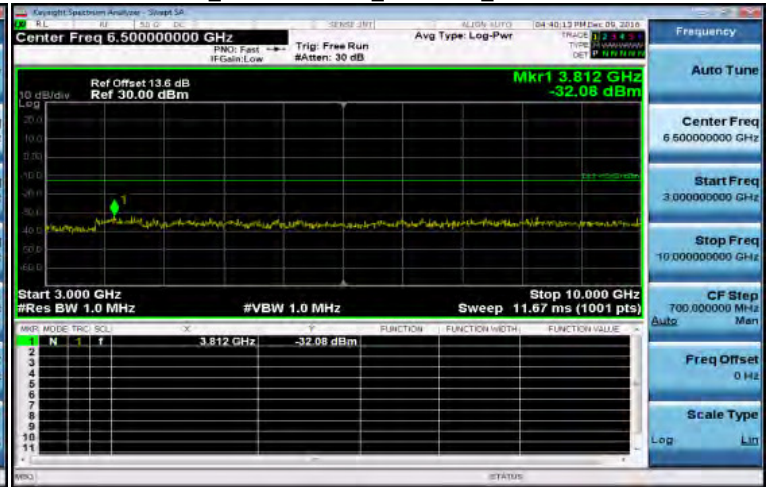
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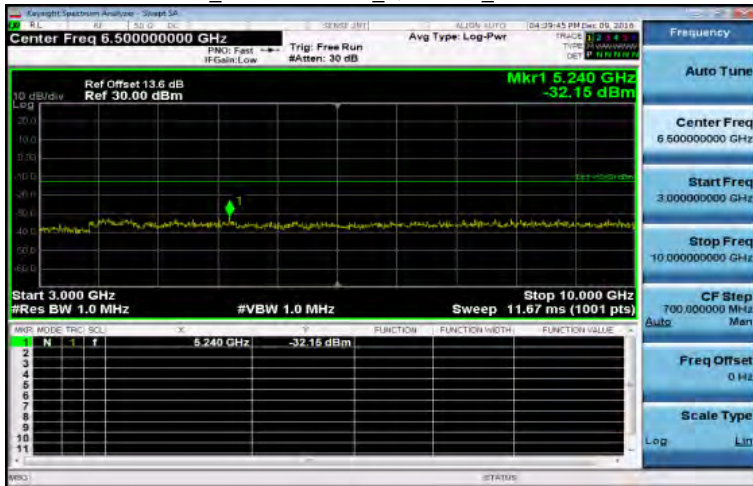
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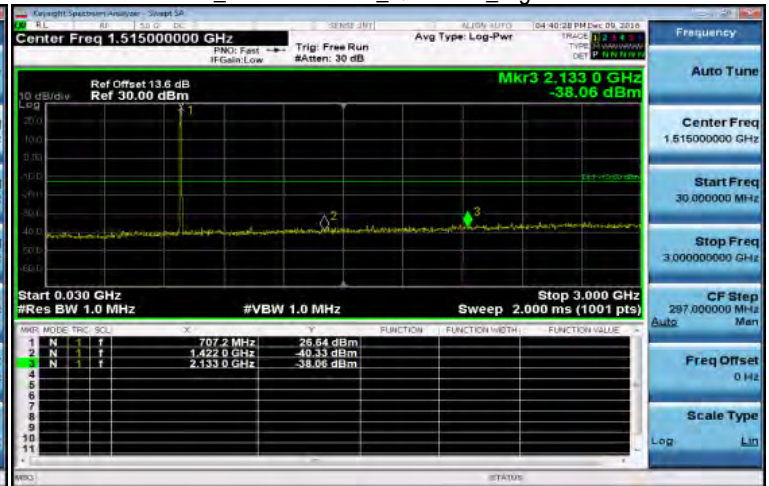
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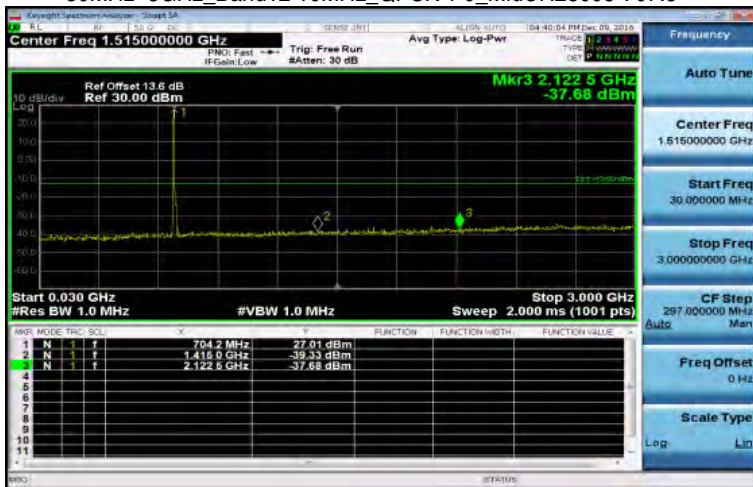
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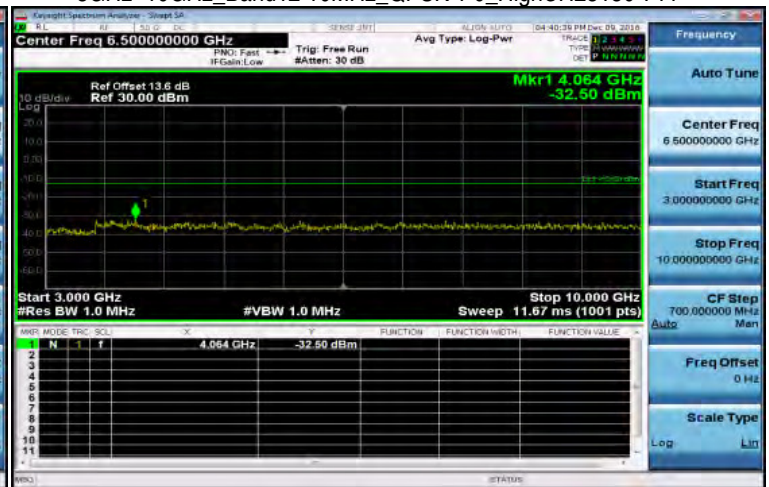
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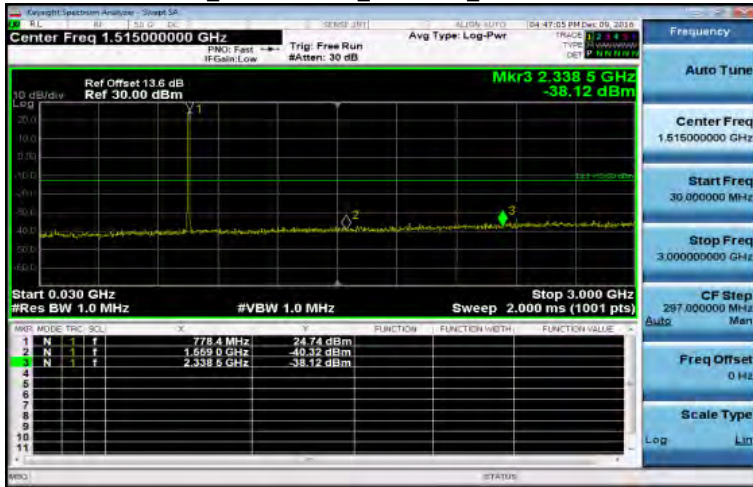
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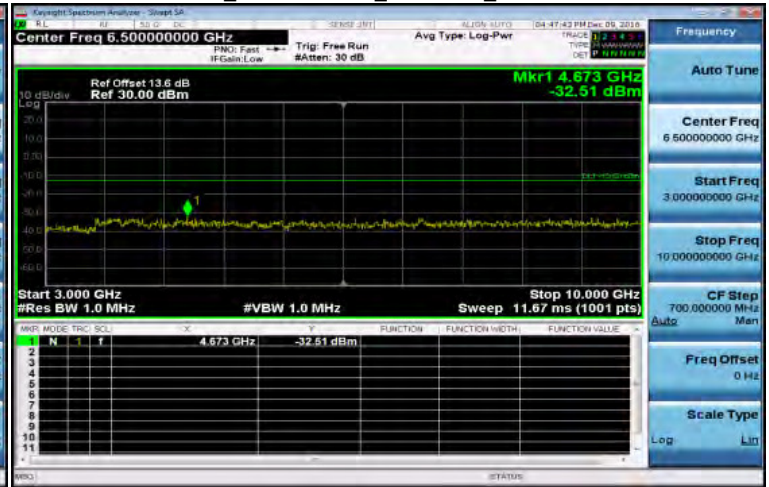
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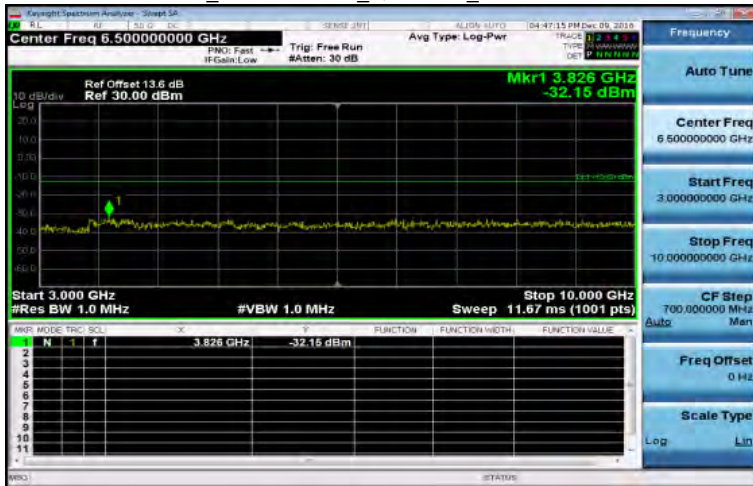
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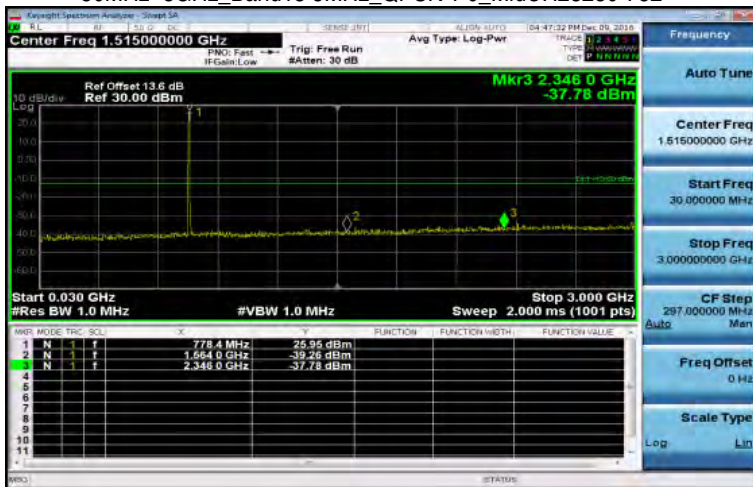
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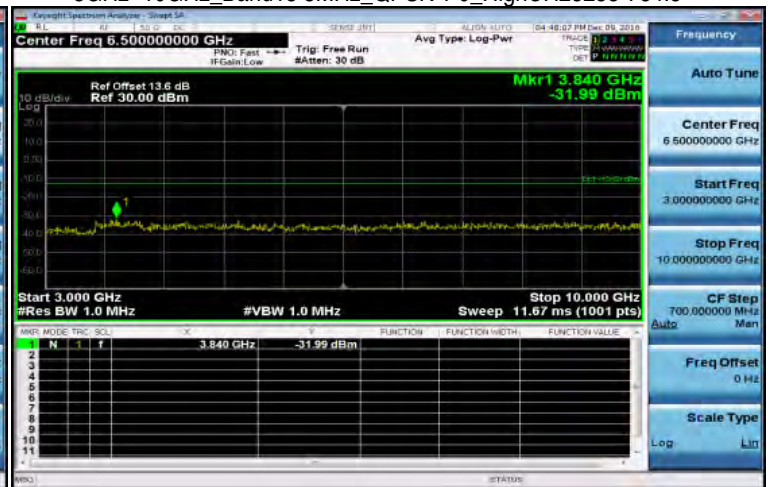
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30MHz~3GHz_Band13 5MHz_QPSK 1 0_MidCH23230-782



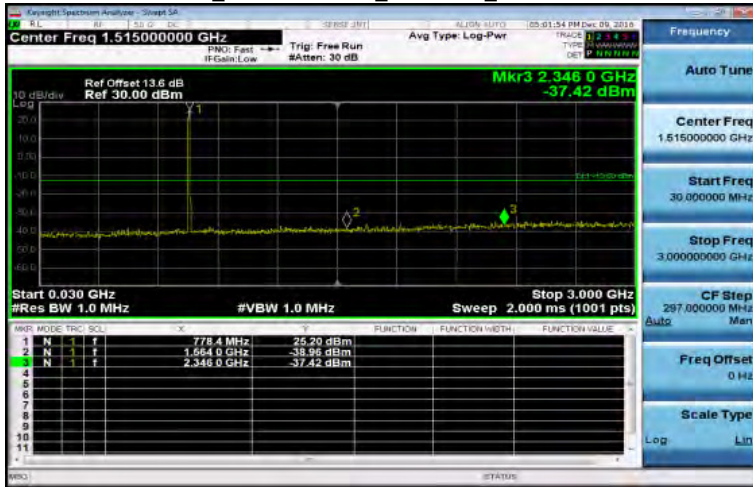
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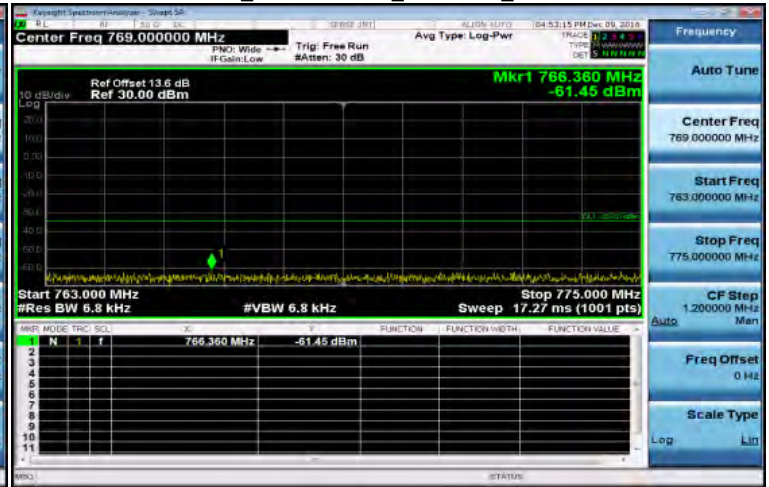
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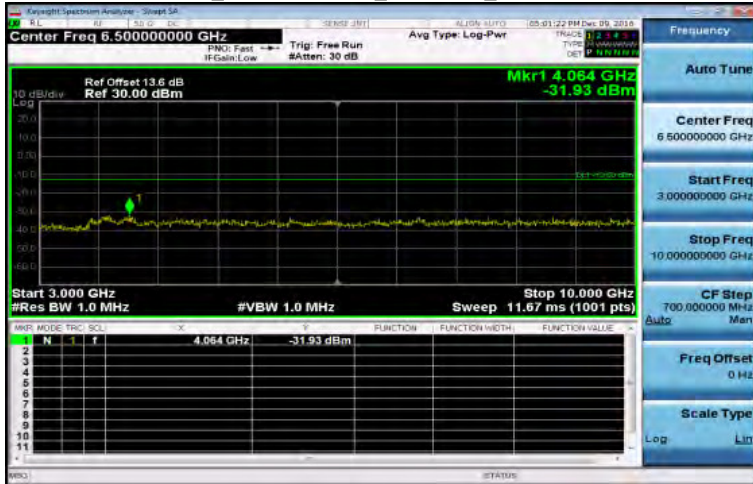
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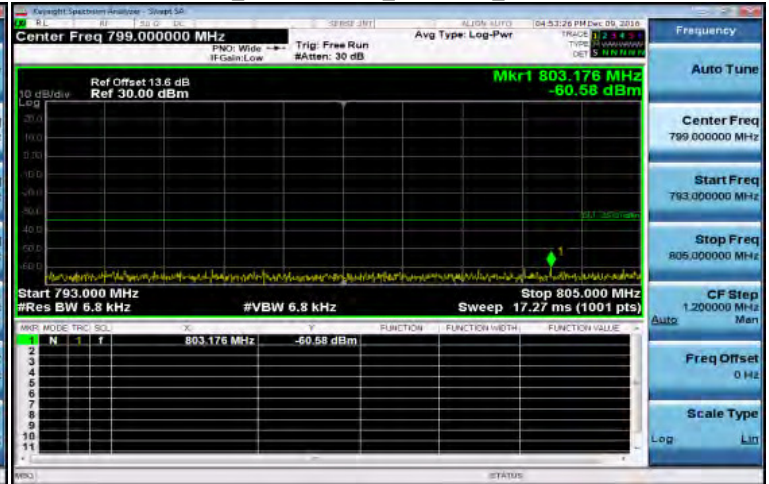
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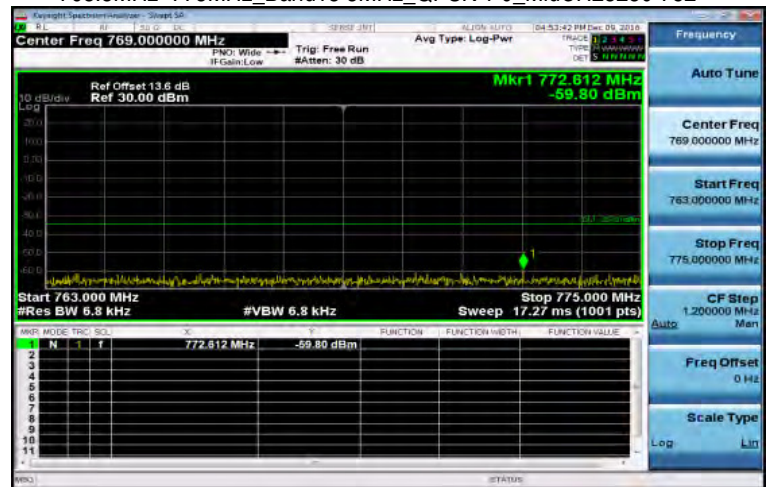
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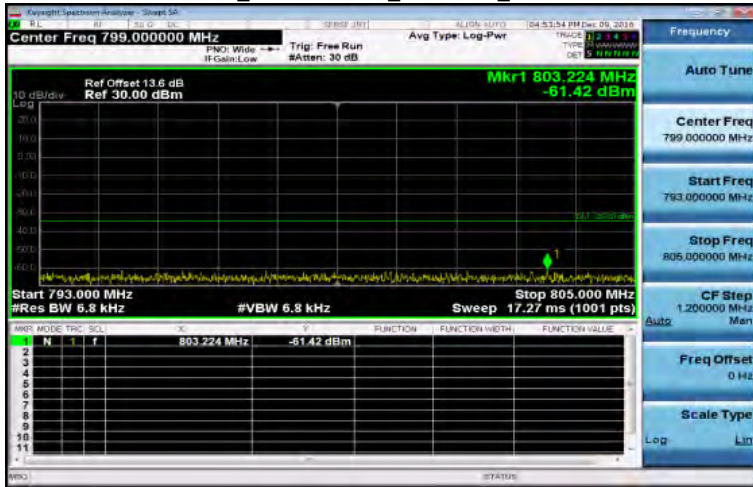
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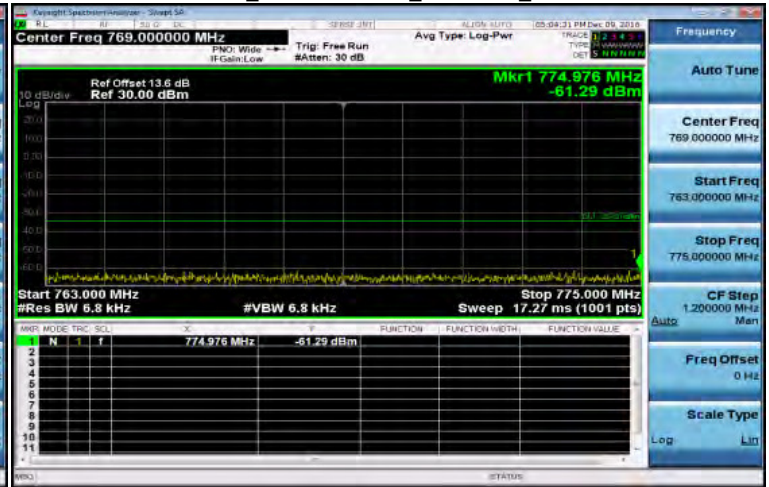
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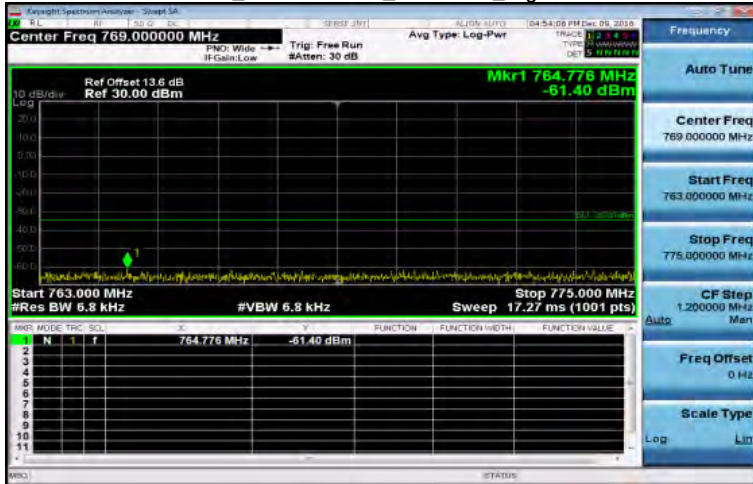
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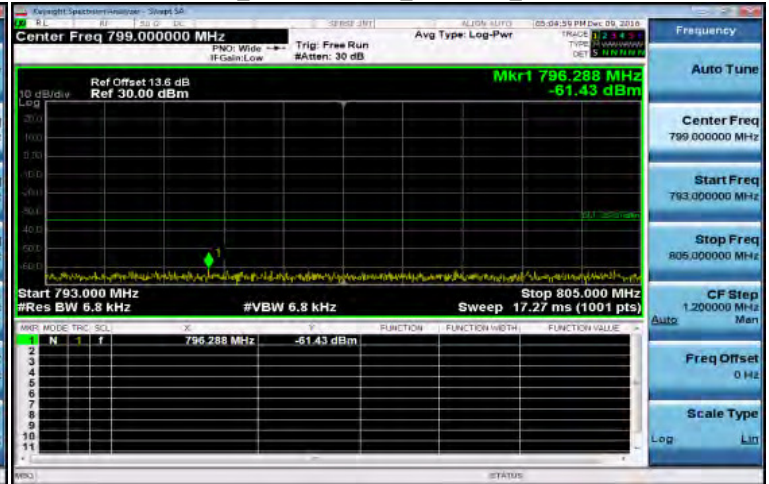
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793MHz~805MHz_Band13 10MHz_QPSK 1 0_MidCH23230-782



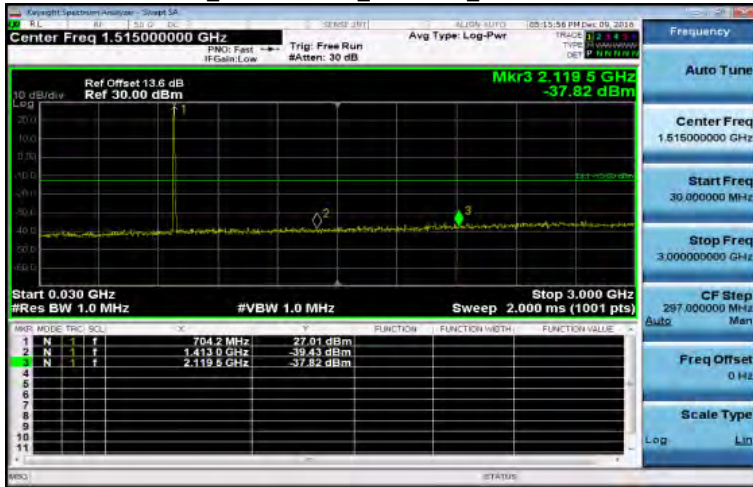
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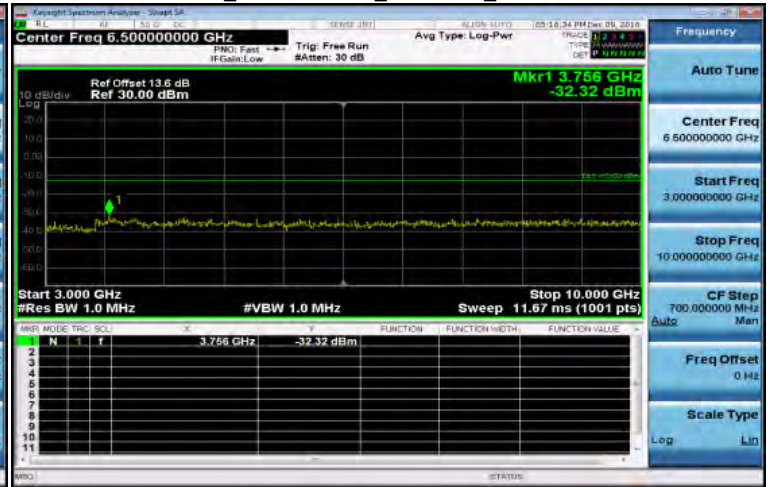
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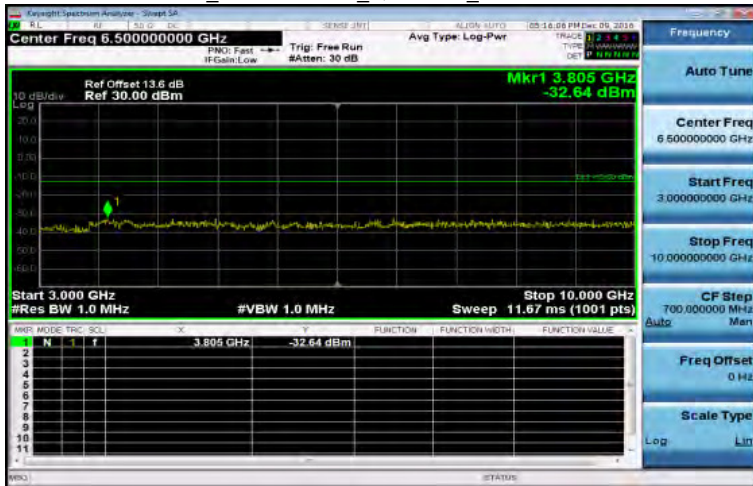
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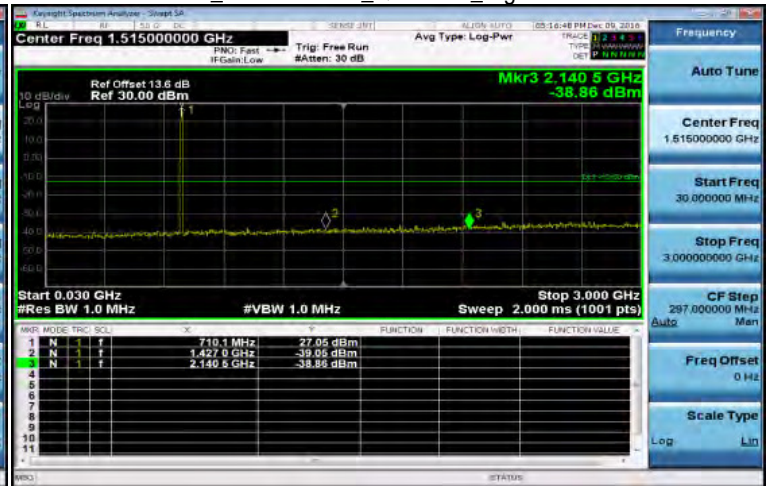
3GHz~10GHz_Band17 5MHz_QPSK 1 0_MidCH23790-710



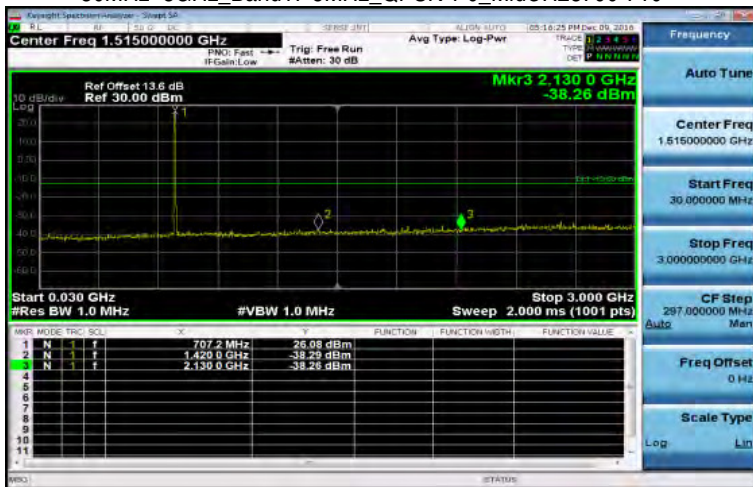
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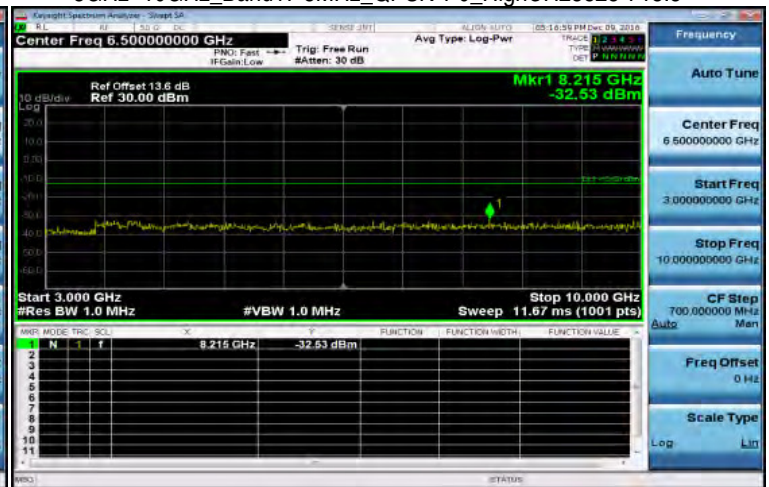
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30MHz~3GHz_Band17 5MHz_QPSK 1 0_MidCH23790-710



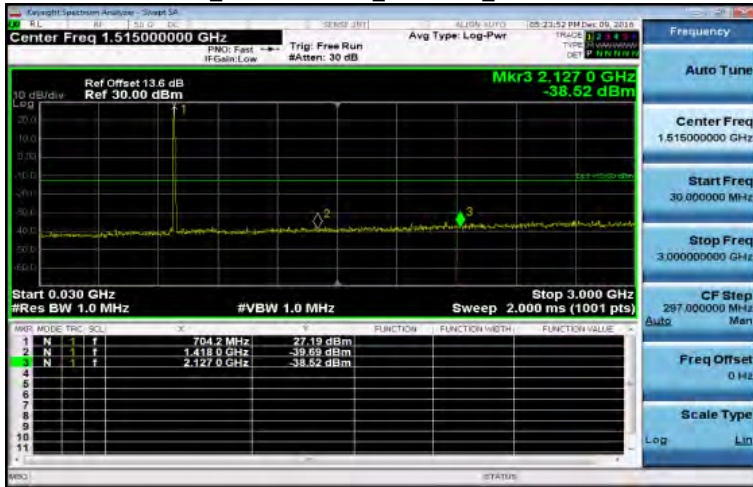
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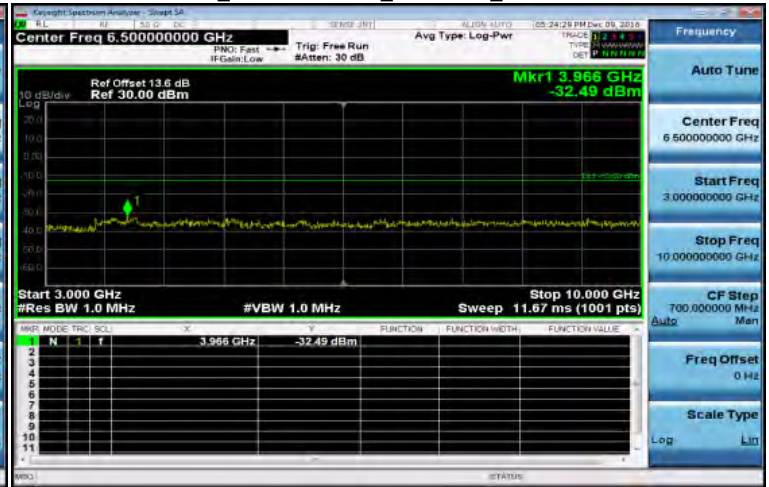
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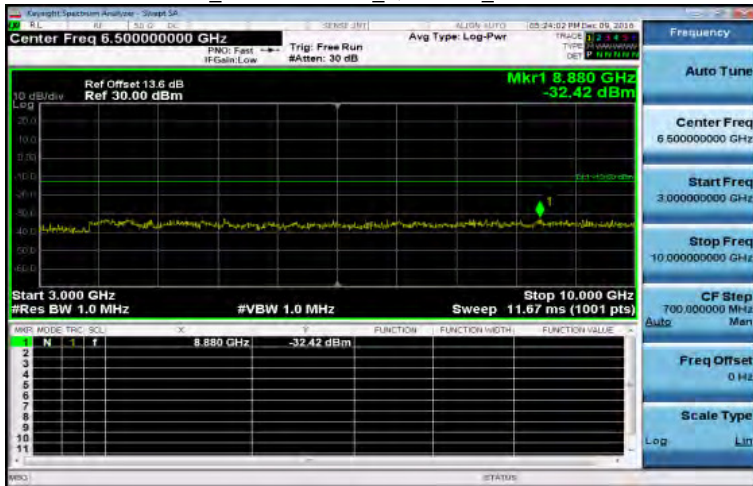
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3GHz~10GHz_Band17 10MHz_QPSK 1_0_MidCH23790-710



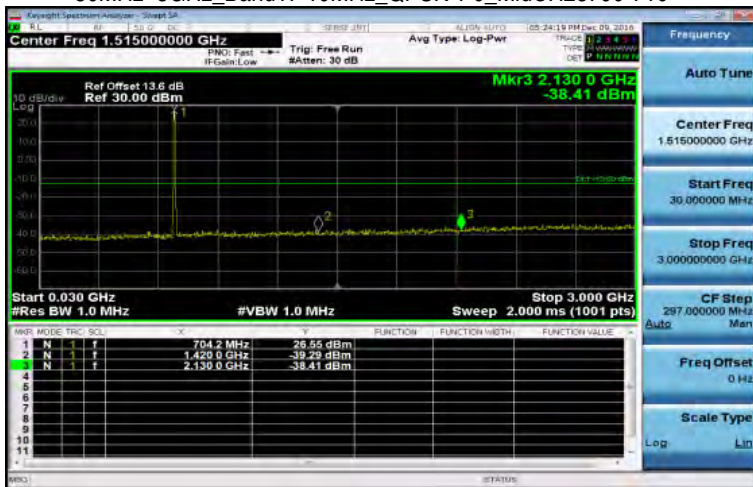
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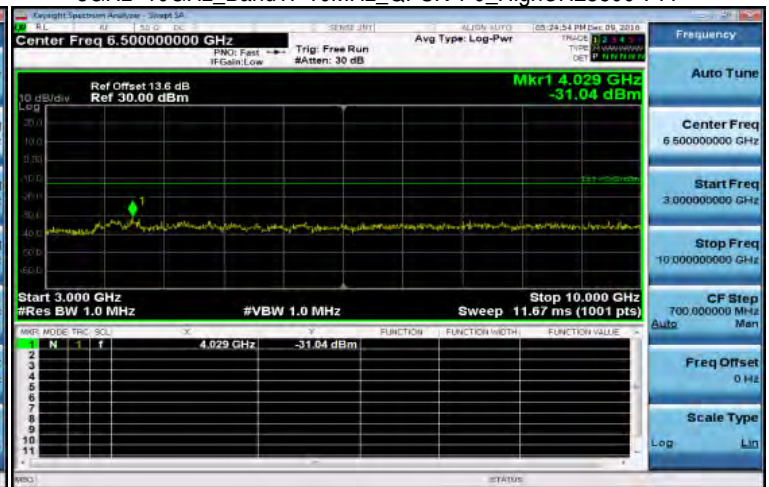
30MHz~3GHz_Band17 10MHz_QPSK 1_0_HighCH23800-711



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	$43 + 10 \log_{10}(p)$ ^{Note}
2320 - 2324	$55 + 10 \log_{10}(p)$
2324 - 2328	$61 + 10 \log_{10}(p)$
2328 - 2337	$67 + 10 \log_{10}(p)$
2337 - 2341	$61 + 10 \log_{10}(p)$
2341 - 2345	$55 + 10 \log_{10}(p)$
2345 - 2360	$43 + 10 \log_{10}(p)$ ^{Note}
2360 - 2365	$43 + 10 \log_{10}(p)$
2365 - 2395	$70 + 10 \log_{10}(p)$
>2395	$43 + 10 \log_{10}(p)$

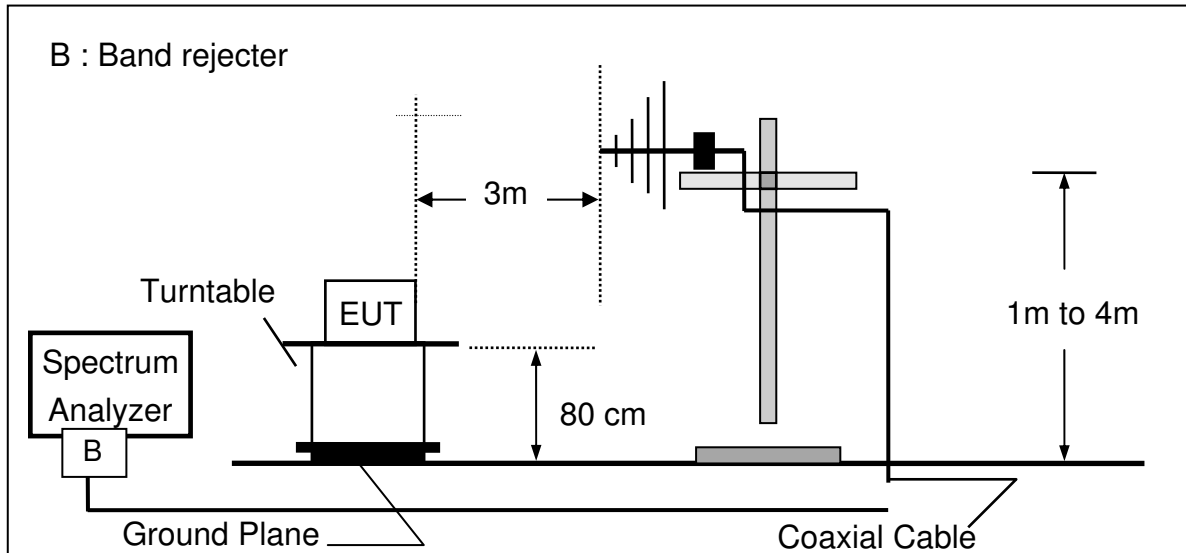
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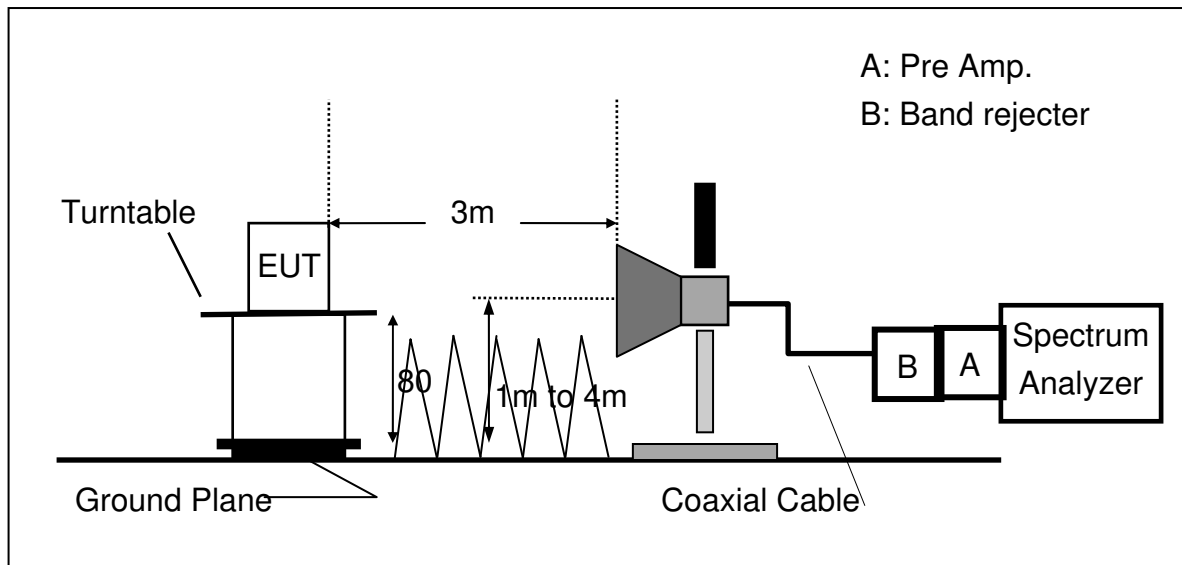
Note: Measured at the edges of the highest and lowest frequency range(s) in which the equipment is designed to operate. See Section 5.2 for the permitted frequency ranges for various equipment types.

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	01/29/2016	01/28/2017
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	01/02/2016	01/01/2017
Pre-Amplifier	EMC Instruments Corp.	EMC0126530	980038	01/02/2016	01/01/2017
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	01/02/2016	01/01/2017
3m Site NSA	SGS	966 chamber	N/A	07/01/2016	06/30/2017
Low Loss Cable	Huber Suhner	966 TX	1	01/02/2016	01/01/2017
Horn Antenna	Schwarzbeck	BBHA9170	184	12/12/2016	12/11/2017
Pre-Amplifier	EMC Instruments Corp.	EMC184045	980135	01/02/2016	01/01/2017
Radio Communication Analyzer	R&S	CMU200	102189	02/11/2016	02/10/2017
Radio Communication Analyzer	Anritsu	MT8820C	6200995019	09/24/2016	09/23/2017
Signal Generator	Agilent	E4438C	MY45093613	07/07/2016	07/06/2017
Filter 800-1000	Micro-Tronics	EWT	M1	01/02/2016	01/01/2017
Filter 1800-2000	Micro-Tronics	EWT	M1	01/02/2016	01/01/2017
1GHz High Pass Filter	Micro-Tronics	HPM50108	32	01/02/2016	01/01/2017
2GHz High Pass Filter	Micro-Tronics	HPM50110	36	01/02/2016	01/01/2017

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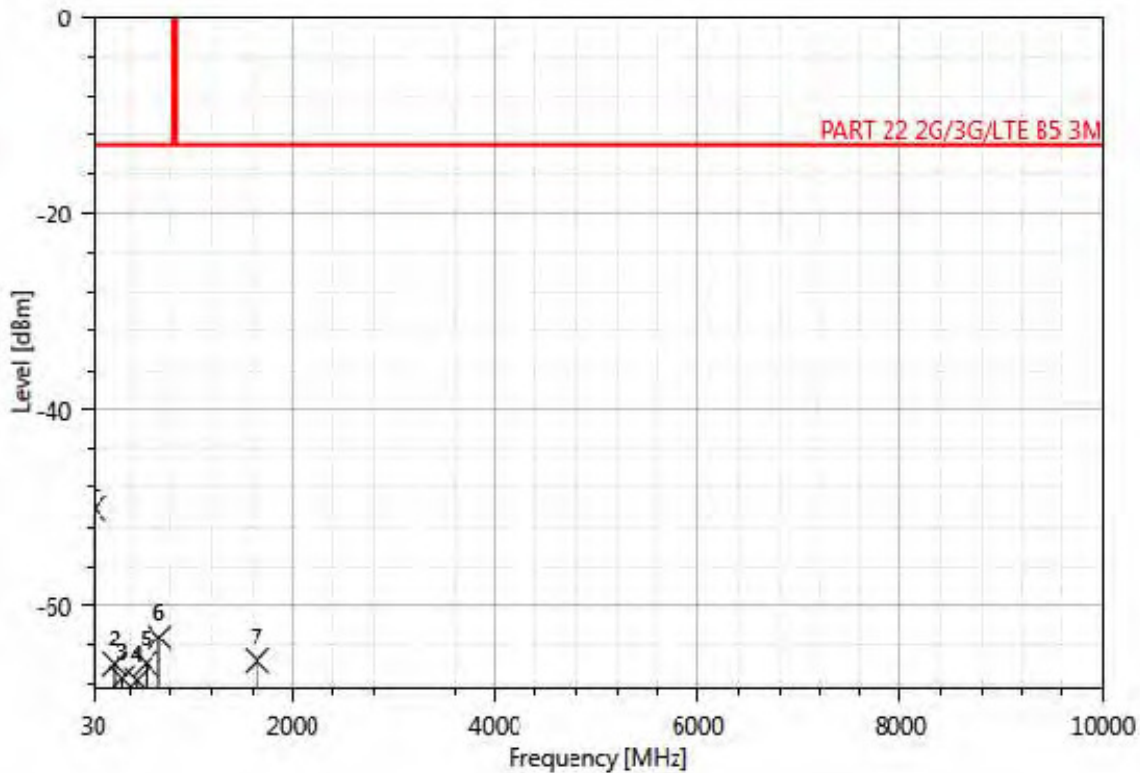
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10.5. Measurement Result:

Radiated Spurious Emission Measurement Result: EDGE 850 Mode

Operation Mode :	EDGE 850	Test Date :	12/14/2016
Fundamental Frequency :	824.2 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Mike
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	ERP Level dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit @3m dBm	Margin dB
36.79	S	Peak	-50.07	-35.67	-13.43	-0.98	-13.00	-37.07
246.31	S	Peak	-65.95	-67.58	3.38	-1.75	-13.00	-52.95
316.15	S	Peak	-67.36	-69.13	3.70	-1.93	-13.00	-54.36
459.71	S	Peak	-67.57	-69.05	3.69	-2.21	-13.00	-54.57
550.89	S	Peak	-65.89	-66.76	3.58	-2.71	-13.00	-52.89
681.84	S	Peak	-63.24	-63.69	3.10	-2.65	-13.00	-50.24
1648.40	H	Peak	-65.62	-68.51	7.11	-4.22	-13.00	-52.62

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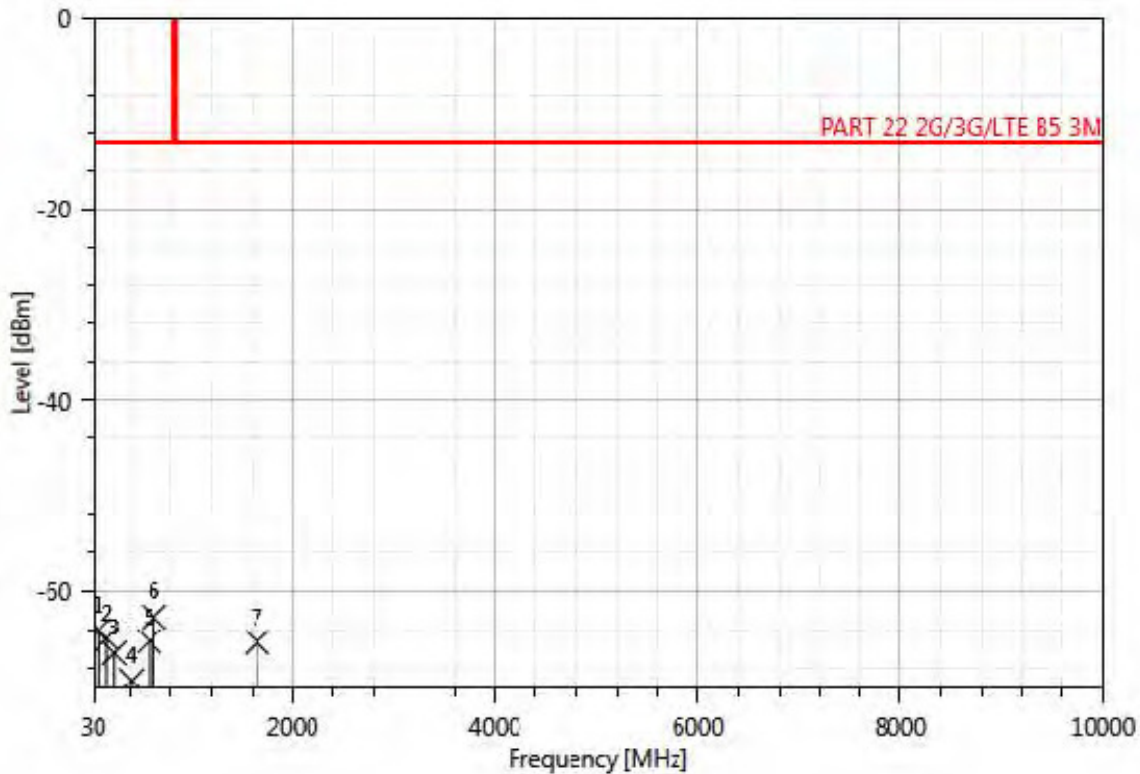
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Operation Mode :	EDGE 850	Test Date :	12/14/2016
Fundamental Frequency :	824.2 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Mike
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	ERP Level dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit @3m dBm	Margin dB
76.56	S	Peak	-64.17	-59.16	-3.87	-1.14	-13.00	-51.17
167.74	S	Peak	-64.95	-62.37	-1.07	-1.51	-13.00	-51.95
241.46	S	Peak	-66.49	-68.06	3.31	-1.74	-13.00	-53.49
408.30	S	Peak	-69.36	-70.74	3.79	-2.41	-13.00	-56.36
582.90	S	Peak	-65.25	-65.82	3.36	-2.79	-13.00	-52.25
629.46	S	Peak	-62.72	-63.43	3.18	-2.47	-13.00	-49.72
1648.40	H	Peak	-65.36	-68.25	7.11	-4.22	-13.00	-52.36

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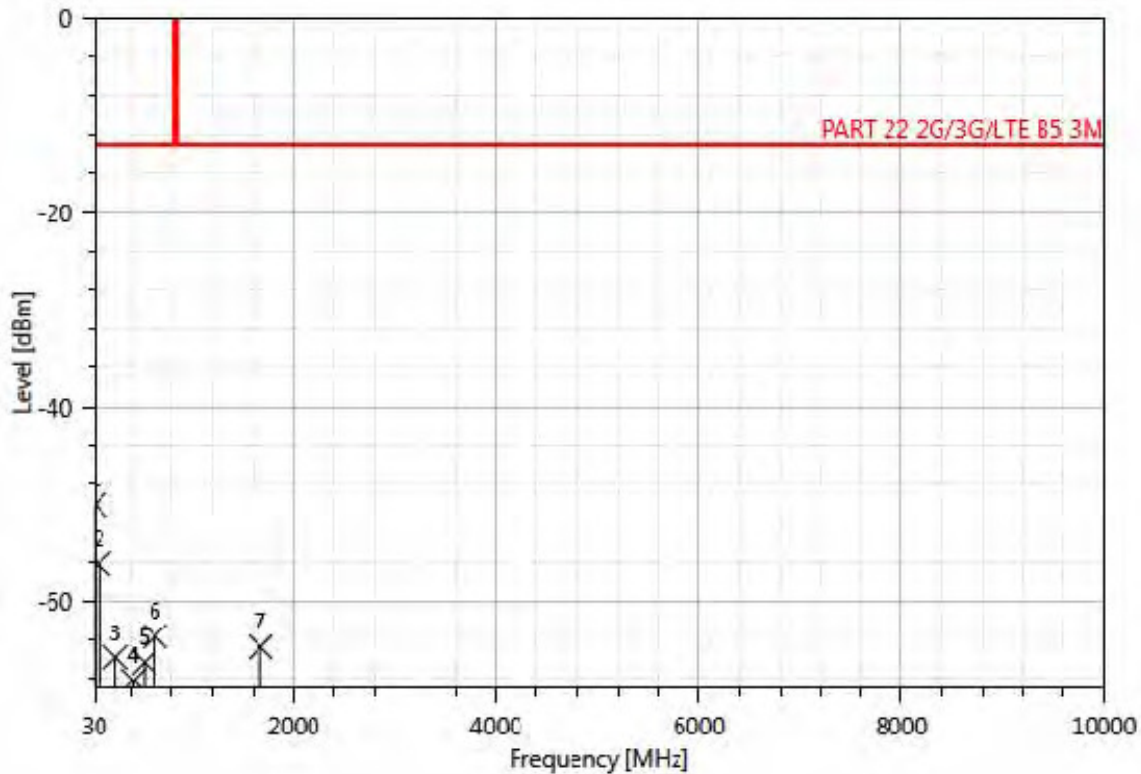
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Operation Mode :	EDGE 850	Test Date :	12/14/2016
Fundamental Frequency :	836.6 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Mike
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	ERP Level dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit @3m dBm	Margin dB
34.85	S	Peak	-50.06	-35.42	-13.67	-0.97	-13.00	-37.06
76.56	S	Peak	-56.13	-51.12	-3.87	-1.14	-13.00	-43.13
240.49	S	Peak	-65.79	-67.34	3.29	-1.74	-13.00	-52.79
415.09	S	Peak	-68.17	-69.57	3.77	-2.37	-13.00	-55.17
522.76	S	Peak	-66.30	-67.61	3.73	-2.42	-13.00	-53.30
631.40	S	Peak	-63.62	-64.33	3.18	-2.46	-13.00	-50.62
1673.20	H	Peak	-64.73	-67.64	7.20	-4.29	-13.00	-51.73

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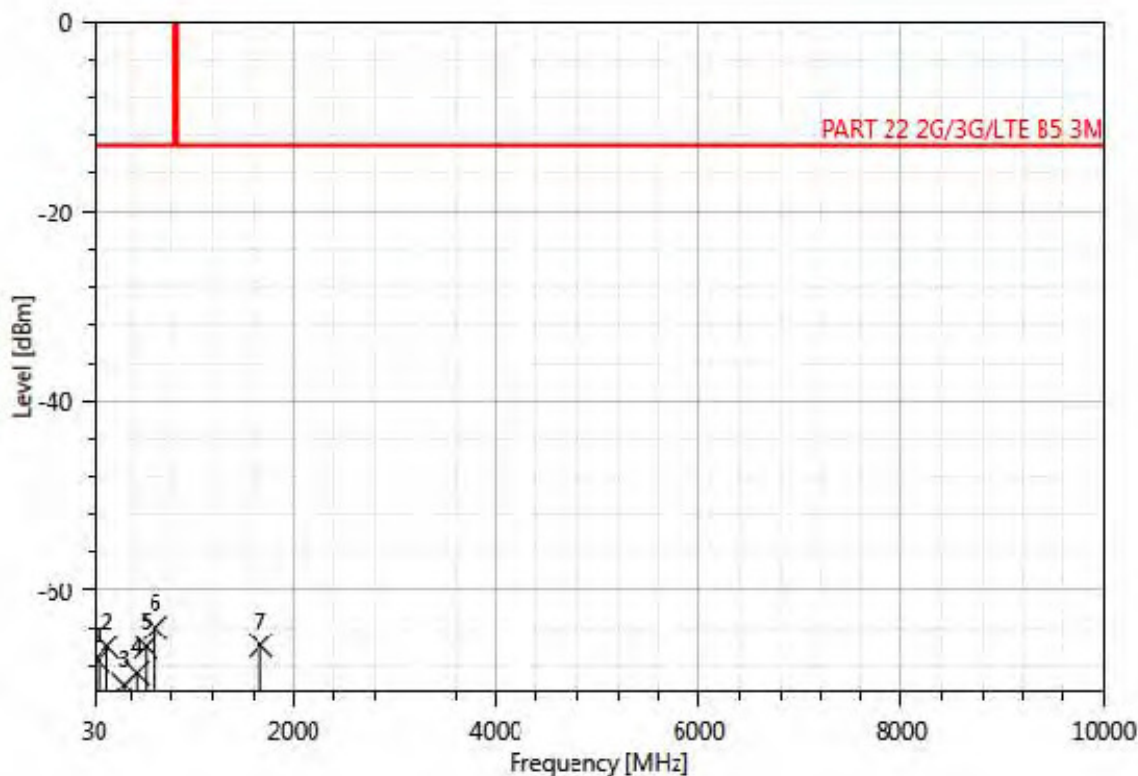
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Operation Mode :	EDGE 850	Test Date :	12/14/2016
Fundamental Frequency :	836.6 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Mike
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	ERP Level dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit @3m dBm	Margin dB
71.71	S	Peak	-67.38	-60.89	-5.36	-1.12	-13.00	-54.38
159.01	S	Peak	-65.95	-62.79	-1.68	-1.47	-13.00	-52.95
327.79	S	Peak	-69.94	-71.78	3.76	-1.92	-13.00	-56.94
450.01	S	Peak	-68.70	-70.16	3.64	-2.19	-13.00	-55.70
539.25	S	Peak	-65.96	-67.01	3.64	-2.59	-13.00	-52.96
634.31	S	Peak	-63.94	-64.66	3.17	-2.45	-13.00	-50.94
1673.20	H	Peak	-65.82	-68.73	7.20	-4.29	-13.00	-52.82

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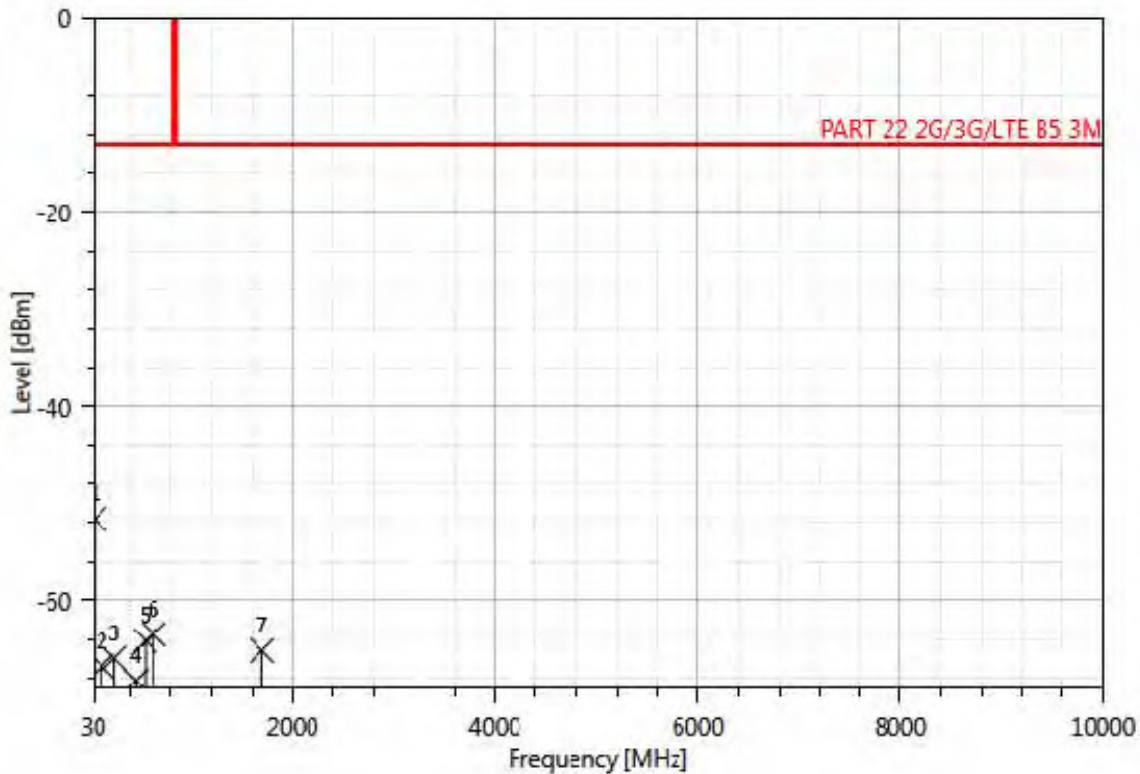
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Operation Mode :	EDGE 850	Test Date :	12/14/2016
Fundamental Frequency :	848.8 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Mike
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



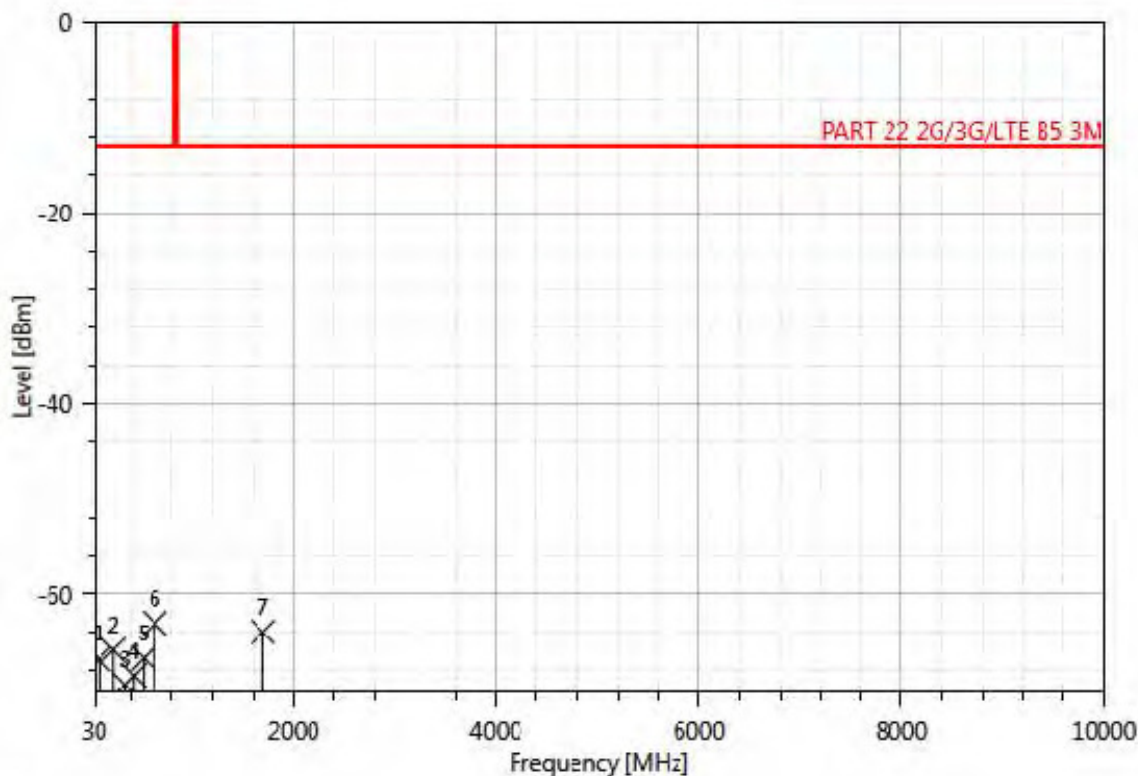
Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	ERP Level dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit @3m dBm	Margin dB
41.64	S	Peak	-51.61	-37.78	-12.83	-1.00	-13.00	-38.61
114.39	S	Peak	-66.75	-62.98	-2.47	-1.30	-13.00	-53.75
238.55	S	Peak	-65.95	-67.48	3.26	-1.74	-13.00	-52.95
449.04	S	Peak	-68.27	-69.73	3.65	-2.19	-13.00	-55.27
544.10	S	Peak	-64.17	-65.15	3.62	-2.64	-13.00	-51.17
626.55	S	Peak	-63.52	-64.21	3.19	-2.49	-13.00	-50.52
1697.60	H	Peak	-65.19	-68.17	7.28	-4.31	-13.00	-52.19

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Operation Mode : EDGE 850 Test Date : 12/14/2016
 Fundamental Frequency : 848.8 MHz Temp. / Humi. : 21 deg_C / 62 RH
 Operation Band : Tx CH HIGH Test Engineer : Mike
 EUT Pol. : E1 Plane Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	ERP Level dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit @3m dBm	Margin dB
76.56	S	Peak	-66.79	-61.78	-3.87	-1.14	-13.00	-53.79
221.09	S	Peak	-65.84	-67.43	3.30	-1.71	-13.00	-52.84
335.55	S	Peak	-69.46	-71.32	3.80	-1.93	-13.00	-56.46
420.91	S	Peak	-68.50	-69.92	3.74	-2.33	-13.00	-55.50
516.94	S	Peak	-66.69	-68.08	3.76	-2.37	-13.00	-53.69
628.49	S	Peak	-63.04	-63.75	3.18	-2.47	-13.00	-50.04
1697.60	H	Peak	-63.96	-66.93	7.28	-4.31	-13.00	-50.96

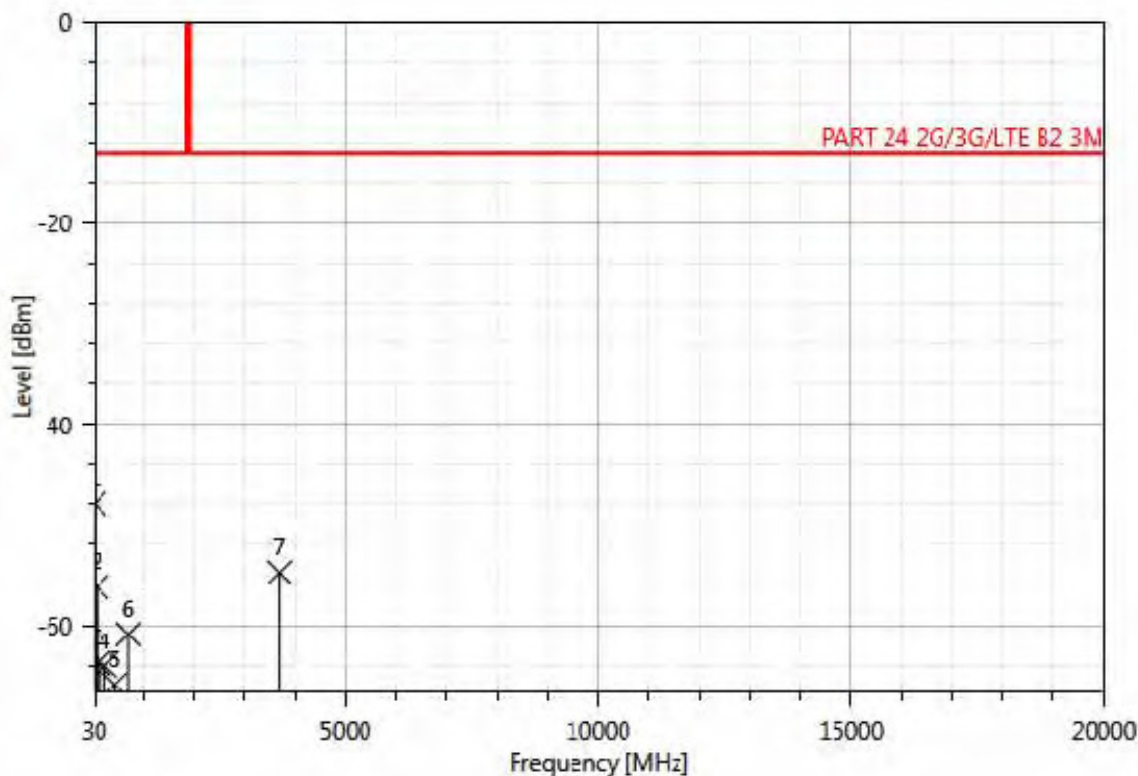
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Radiated Spurious Emission Measurement Result: GPRS 1900 Mode

Operation Mode :	GPRS 1900	Test Date :	12/14/2016
Fundamental Frequency :	1850.2 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



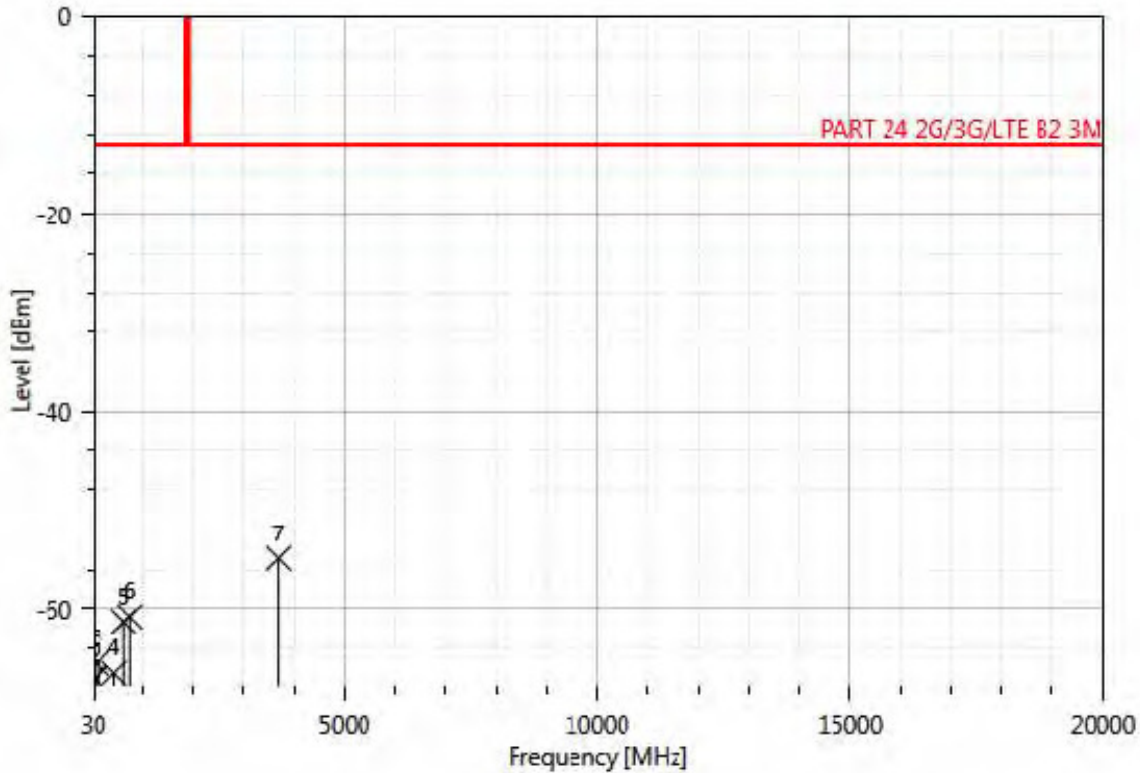
Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	EIRP Level dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm	Margin dB
36.79	S	Peak	-47.92	-35.67	-11.28	-0.98	-13.00	-34.92
76.56	S	Peak	-56.20	-53.34	-1.72	-1.14	-13.00	-43.20
114.39	S	Peak	-63.78	-62.16	-0.32	-1.30	-13.00	-50.78
243.40	S	Peak	-64.02	-67.76	5.49	-1.75	-13.00	-51.02
439.34	S	Peak	-65.91	-69.53	5.83	-2.21	-13.00	-52.91
702.21	S	Peak	-60.91	-63.13	5.24	-3.02	-13.00	-47.91
3700.40	H	Peak	-54.77	-60.63	12.44	-6.58	-13.00	-41.77

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Operation Mode :	GPRS 1900	Test Date :	12/14/2016
Fundamental Frequency :	1850.2 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	EIRP Level dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm	Margin dB
41.64	S	Peak	-67.01	-55.33	-10.68	-1.00	-13.00	-54.01
73.65	S	Peak	-67.07	-63.34	-2.60	-1.13	-13.00	-54.07
110.51	S	Peak	-65.48	-63.85	-0.34	-1.29	-13.00	-52.48
445.16	S	Peak	-66.46	-70.08	5.81	-2.18	-13.00	-53.46
631.40	S	Peak	-61.30	-64.16	5.33	-2.46	-13.00	-48.30
752.65	S	Peak	-60.81	-63.09	5.34	-3.06	-13.00	-47.81
3700.40	H	Peak	-54.86	-60.72	12.44	-6.58	-13.00	-41.86

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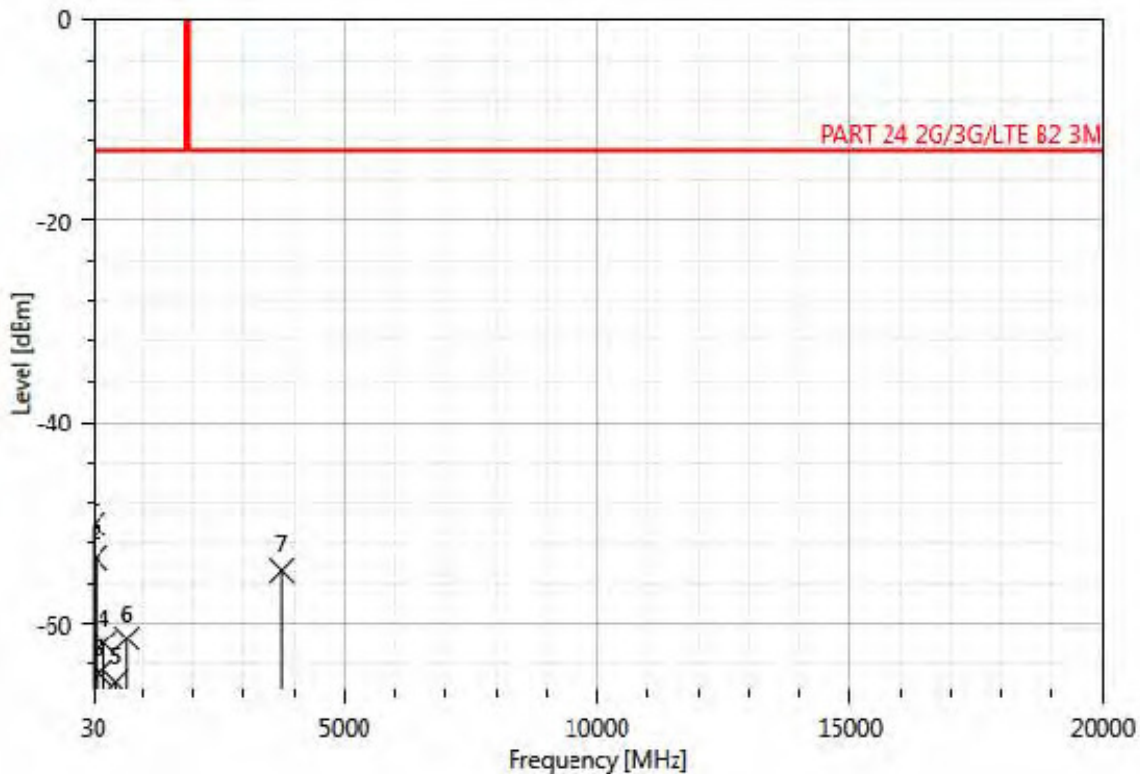
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Operation Mode :	GPRS 1900	Test Date :	12/14/2016
Fundamental Frequency :	1880 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	EIRP Level dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm	Margin dB
34.85	S	Peak	-50.10	-37.61	-11.52	-0.97	-13.00	-37.10
76.56	S	Peak	-53.47	-50.61	-1.72	-1.14	-13.00	-40.47
158.04	S	Peak	-64.86	-63.82	0.42	-1.47	-13.00	-51.86
246.31	S	Peak	-61.91	-65.69	5.53	-1.75	-13.00	-48.91
479.11	S	Peak	-65.75	-69.43	5.92	-2.24	-13.00	-52.75
694.45	S	Peak	-61.46	-63.82	5.24	-2.88	-13.00	-48.46
3760.00	H	Peak	-54.68	-60.53	12.45	-6.60	-13.00	-41.68

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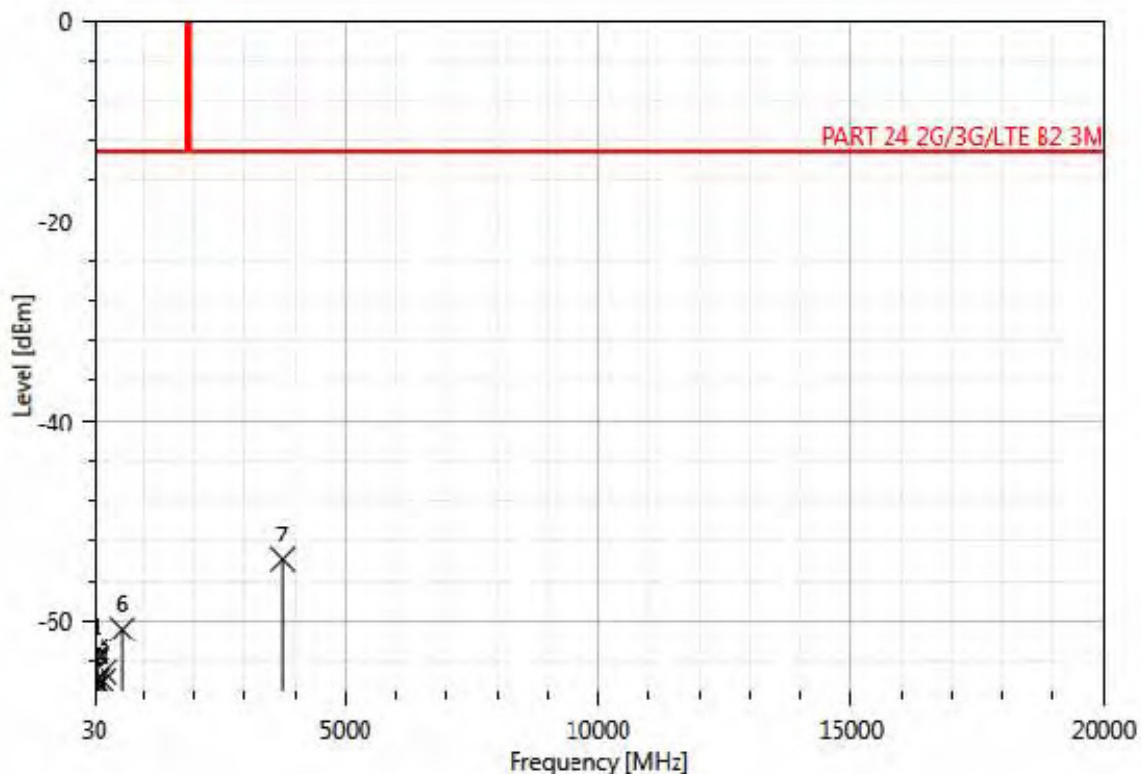
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Operation Mode :	GPRS 1900	Test Date :	12/14/2016
Fundamental Frequency :	1880 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	EIRP Level dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm	Margin dB
78.50	S	Peak	-63.09	-60.79	-1.14	-1.15	-13.00	-50.09
114.39	S	Peak	-65.97	-64.35	-0.32	-1.30	-13.00	-52.97
168.71	S	Peak	-66.29	-65.92	1.15	-1.51	-13.00	-53.29
224.00	S	Peak	-65.97	-69.65	5.39	-1.71	-13.00	-52.97
241.46	S	Peak	-65.10	-68.82	5.46	-1.74	-13.00	-52.10
590.66	S	Peak	-60.84	-63.50	5.46	-2.80	-13.00	-47.84
3760.00	H	Peak	-53.85	-59.70	12.45	-6.60	-13.00	-40.85

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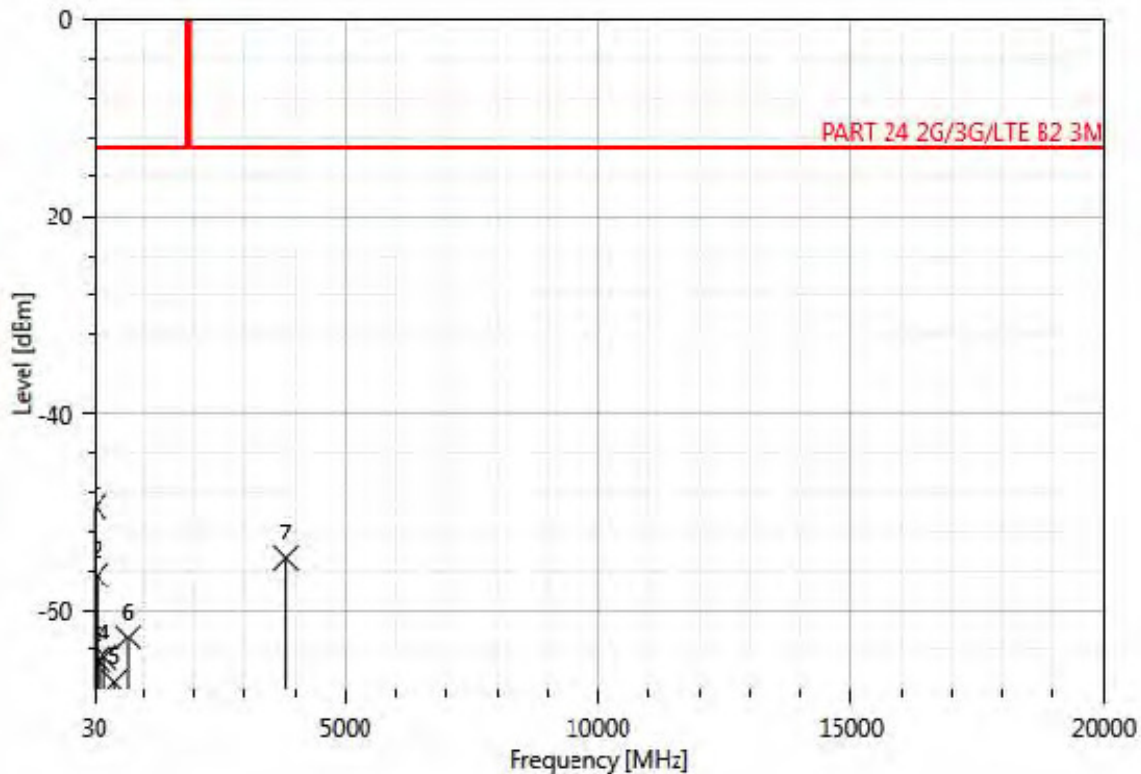
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Operation Mode :	GPRS 1900	Test Date :	12/14/2016
Fundamental Frequency :	1909.8 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	EIRP Level dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm	Margin dB
34.85	S	Peak	-49.45	-36.96	-11.52	-0.97	-13.00	-36.45
76.56	S	Peak	-56.42	-53.56	-1.72	-1.14	-13.00	-43.42
114.39	S	Peak	-64.95	-63.33	-0.32	-1.30	-13.00	-51.95
233.70	S	Peak	-64.75	-68.35	5.33	-1.73	-13.00	-51.75
434.49	S	Peak	-67.21	-70.82	5.85	-2.24	-13.00	-54.21
700.27	S	Peak	-62.72	-64.97	5.23	-2.98	-13.00	-49.72
3819.60	H	Peak	-54.67	-60.49	12.47	-6.65	-13.00	-41.67

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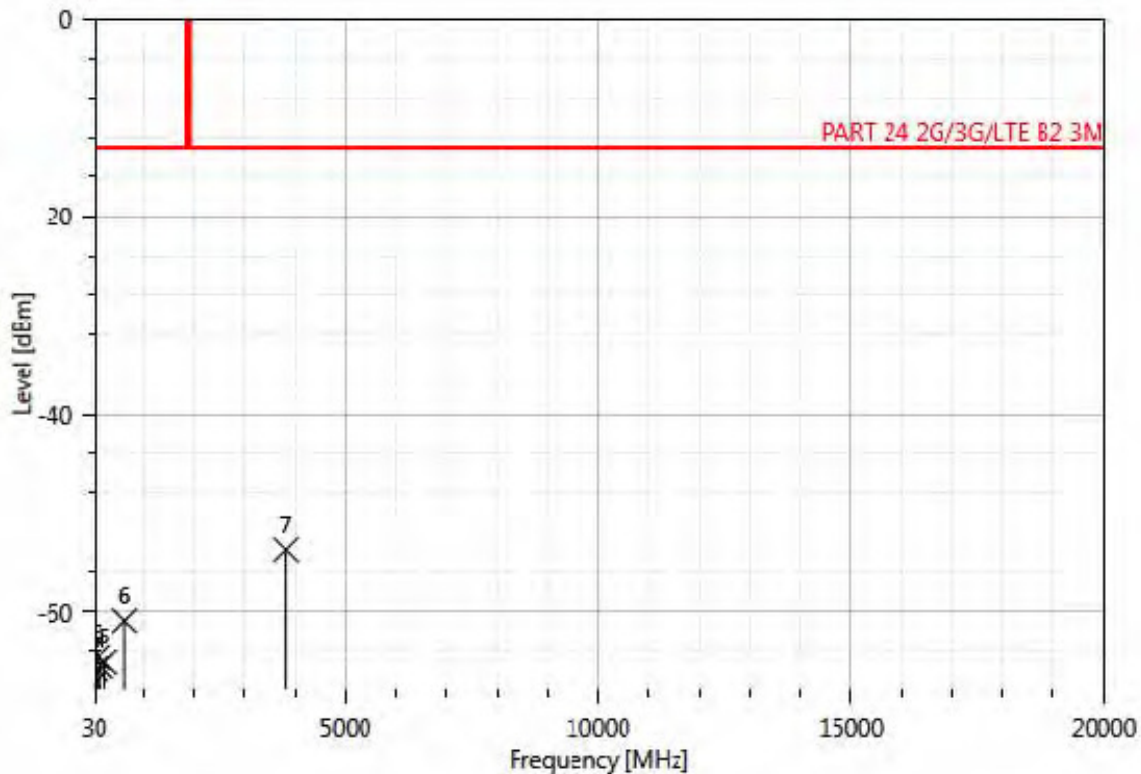
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Operation Mode :	GPRS 1900	Test Date :	12/14/2016
Fundamental Frequency :	1909.8 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	EIRP Level dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm	Margin dB
39.70	S	Peak	-67.13	-55.18	-10.96	-0.99	-13.00	-54.13
78.50	S	Peak	-65.81	-63.52	-1.14	-1.15	-13.00	-52.81
112.45	S	Peak	-64.69	-63.06	-0.33	-1.30	-13.00	-51.69
160.95	S	Peak	-65.52	-64.62	0.58	-1.48	-13.00	-52.52
245.34	S	Peak	-65.16	-68.93	5.52	-1.75	-13.00	-52.16
629.46	S	Peak	-60.94	-63.80	5.33	-2.47	-13.00	-47.94
3819.60	H	Peak	-53.80	-59.62	12.47	-6.65	-13.00	-40.80

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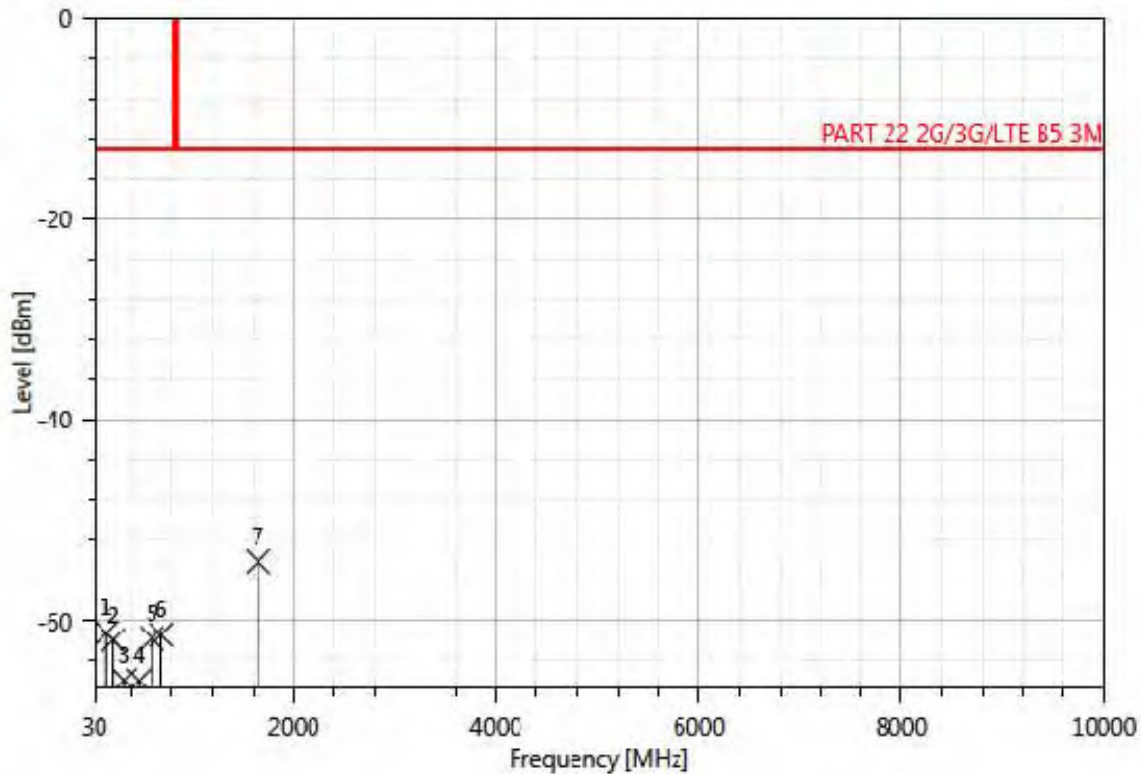
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Radiated Spurious Emission Measurement Result: CDMA (BC0) Mode

Operation Mode :	CDMA 850	Test Date :	12/13/2016
Fundamental Frequency :	824.7 MHz	Temp. / Humi. :	23 deg_C / 52 RH
Operation Band :	Tx CH LOW	Test Engineer :	Mike
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL

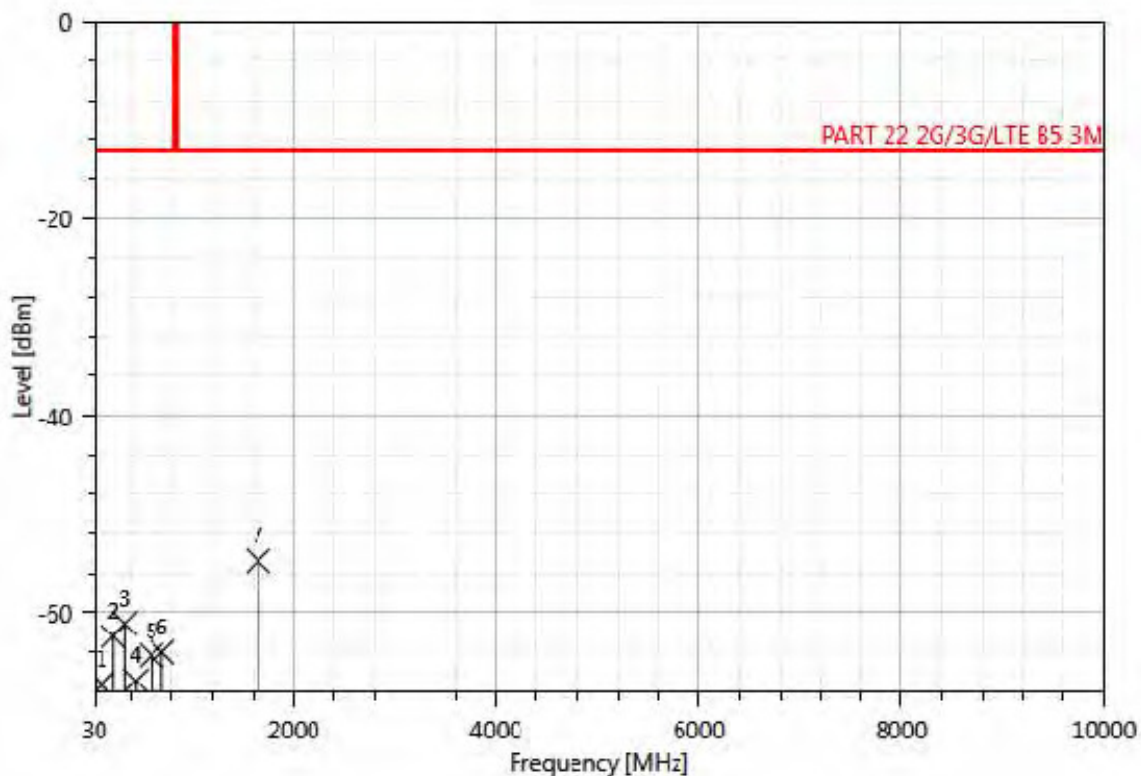


Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	ERP Level dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm	Margin dB
153.19	S	Peak	-61.26	-60.02	0.20	-1.44	-13.00	-48.26
219.15	S	Peak	-62.00	-65.79	5.49	-1.70	-13.00	-49.00
327.79	S	Peak	-65.96	-69.96	5.91	-1.92	-13.00	-52.96
469.41	S	Peak	-66.01	-69.66	5.88	-2.22	-13.00	-53.01
599.39	S	Peak	-61.80	-64.47	5.40	-2.73	-13.00	-48.80
691.54	S	Peak	-61.46	-63.87	5.24	-2.83	-13.00	-48.46
1649.40	H	Peak	-54.13	-57.01	7.11	-4.23	-13.00	-41.13

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Operation Mode : CDMA 850 Test Date : 12/13/2016
 Fundamental Frequency : 824.7 MHz Temp. / Humi. : 23 deg_C / 52 RH
 Operation Band : Tx CH LOW Test Engineer : Mike
 EUT Pol. : E1 Plane Measurement Antenna Pol. : HORIZONTAL



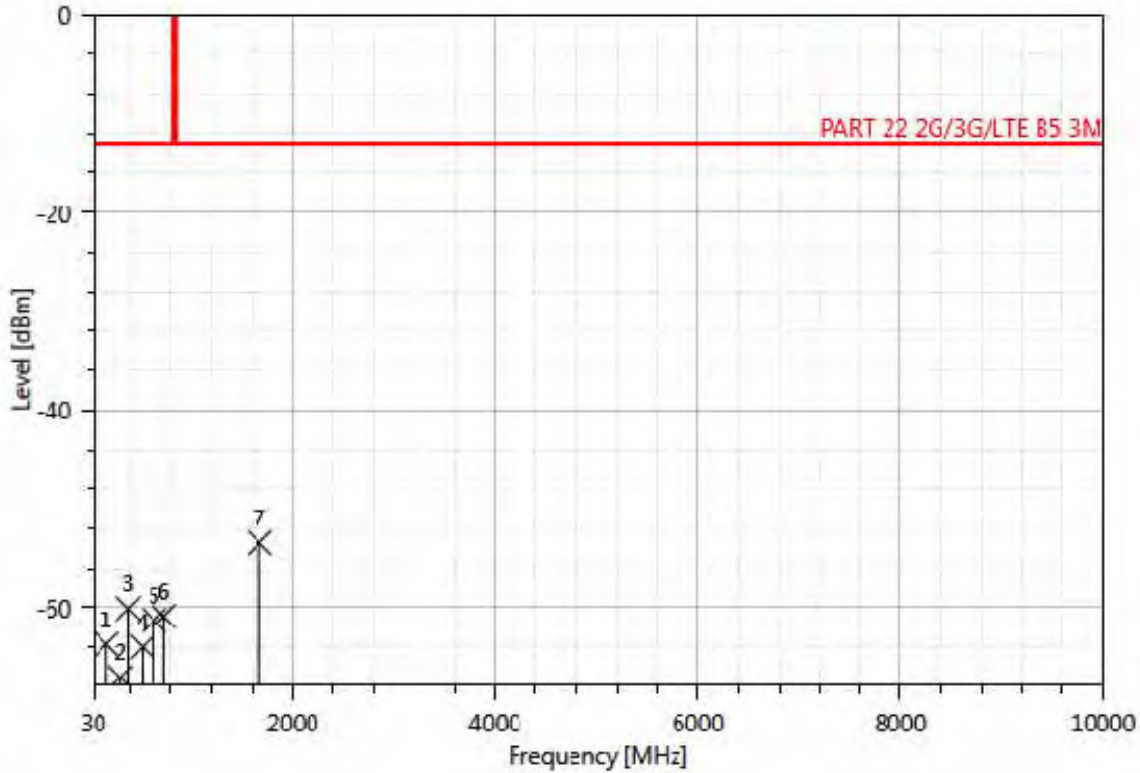
Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	ERP Level dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm	Margin dB
104.69	S	Peak	-67.29	-66.13	0.11	-1.27	-13.00	-54.29
221.09	S	Peak	-62.41	-66.16	5.45	-1.71	-13.00	-49.41
332.64	S	Peak	-61.11	-65.14	5.93	-1.91	-13.00	-48.11
439.34	S	Peak	-66.93	-70.55	5.83	-2.21	-13.00	-53.93
594.54	S	Peak	-64.34	-67.00	5.43	-2.78	-13.00	-51.34
699.30	S	Peak	-64.02	-66.29	5.23	-2.96	-13.00	-51.02
1649.40	H	Peak	-54.72	-57.61	7.11	-4.23	-13.00	-41.72

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Operation Mode :	CDMA 850	Test Date :	12/13/2016
Fundamental Frequency :	836.52 MHz	Temp. / Humi. :	23 deg_C / 52 RH
Operation Band :	Tx CH MID	Test Engineer :	Mike
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	ERP Level dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm	Margin dB
161.92	S	Peak	-63.67	-62.84	0.66	-1.48	-13.00	-50.67
298.69	S	Peak	-67.03	-70.83	5.75	-1.95	-13.00	-54.03
374.35	S	Peak	-60.08	-63.84	5.99	-2.23	-13.00	-47.08
515.00	S	Peak	-63.94	-67.51	5.92	-2.36	-13.00	-50.94
631.40	S	Peak	-61.26	-64.13	5.33	-2.46	-13.00	-48.26
728.40	S	Peak	-60.85	-63.03	5.29	-3.11	-13.00	-47.85
1673.04	H	Peak	-53.42	-56.33	7.20	-4.29	-13.00	-40.42

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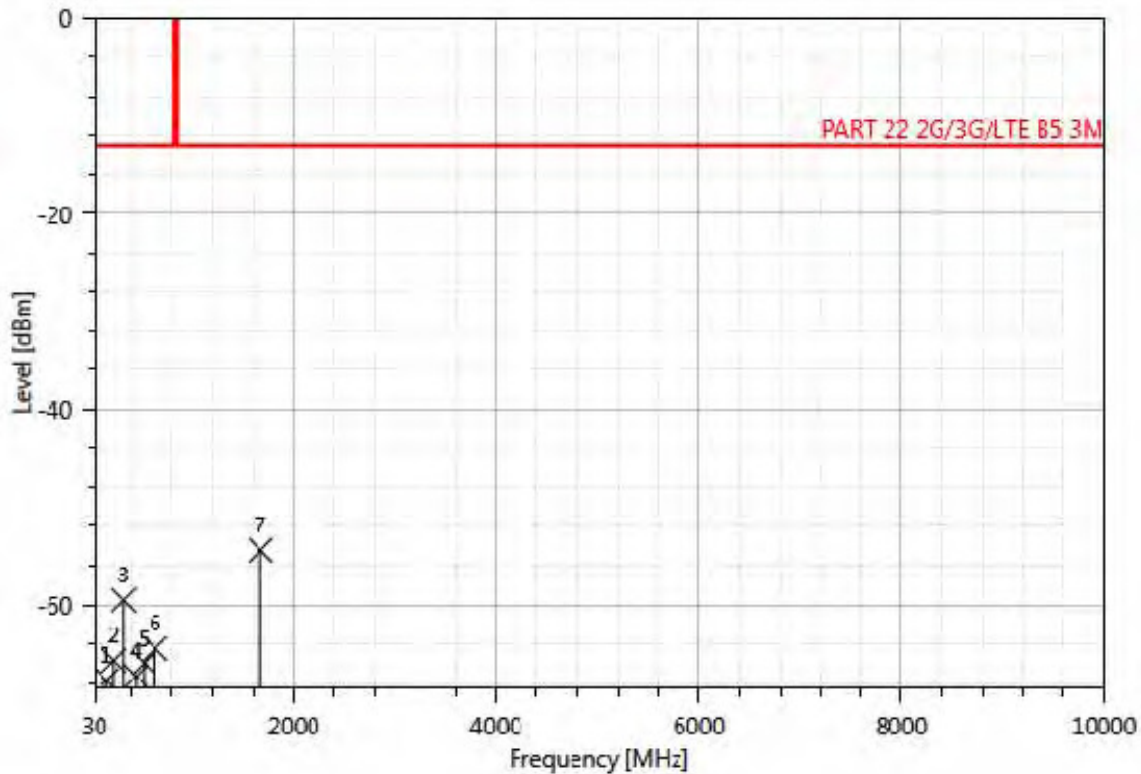
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Operation Mode :	CDMA 850	Test Date :	12/13/2016
Fundamental Frequency :	836.52 MHz	Temp. / Humi. :	23 deg_C / 52 RH
Operation Band :	Tx CH MID	Test Engineer :	Mike
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	ERP Level dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm	Margin dB
154.16	S	Peak	-67.70	-66.50	0.25	-1.45	-13.00	-54.70
225.94	S	Peak	-65.66	-69.29	5.35	-1.72	-13.00	-52.66
321.00	S	Peak	-59.51	-63.47	5.88	-1.92	-13.00	-46.51
442.25	S	Peak	-67.30	-70.93	5.82	-2.19	-13.00	-54.30
521.79	S	Peak	-65.95	-69.42	5.89	-2.41	-13.00	-52.95
633.34	S	Peak	-64.44	-67.31	5.32	-2.46	-13.00	-51.44
1673.04	H	Peak	-54.41	-57.32	7.20	-4.29	-13.00	-41.41

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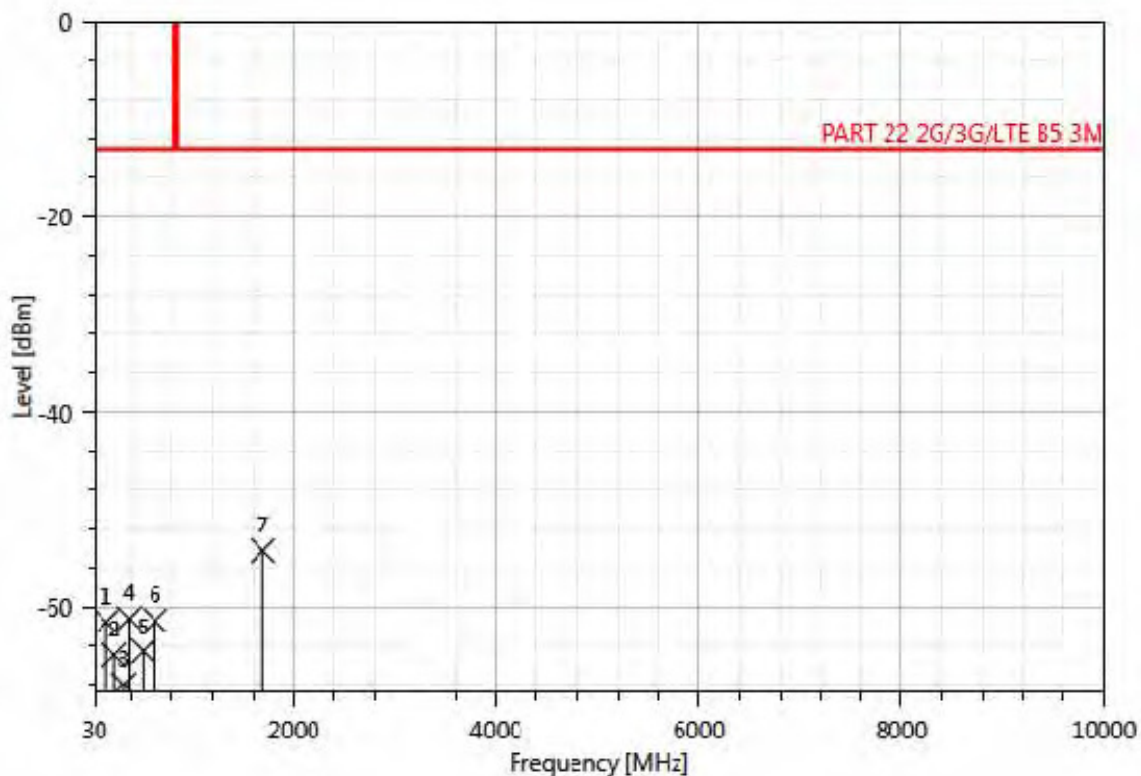
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Operation Mode : CDMA 850 Test Date : 12/13/2016
 Fundamental Frequency : 848.31 MHz Temp. / Humi. : 23 deg_C / 52 RH
 Operation Band : Tx CH HIGH Test Engineer : Mike
 EUT Pol. : E1 Plane Measurement Antenna Pol. : VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	ERP Level dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm	Margin dB
151.25	S	Peak	-61.54	-60.21	0.11	-1.44	-13.00	-48.54
228.85	S	Peak	-64.91	-68.48	5.29	-1.72	-13.00	-51.91
322.94	S	Peak	-67.93	-71.89	5.89	-1.92	-13.00	-54.93
376.29	S	Peak	-61.18	-64.93	5.99	-2.24	-13.00	-48.18
512.09	S	Peak	-64.53	-68.12	5.94	-2.35	-13.00	-51.53
633.34	S	Peak	-61.40	-64.27	5.32	-2.46	-13.00	-48.40
1696.62	H	Peak	-54.23	-57.20	7.28	-4.31	-13.00	-41.23

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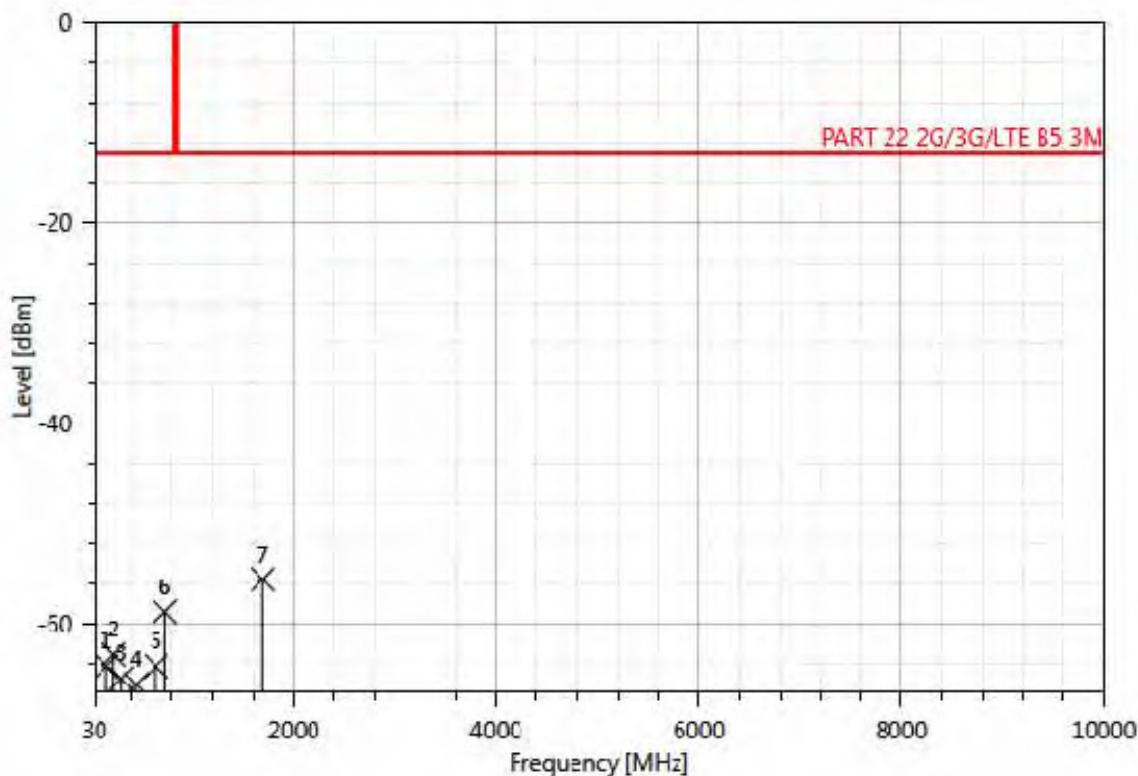
t (886-2) 2299-3279

f (886-2) 2298-0488

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Operation Mode : CDMA 850 Test Date : 12/13/2016
 Fundamental Frequency : 848.31 MHz Temp. / Humi. : 23 deg_C / 52 RH
 Operation Band : Tx CH HIGH Test Engineer : Mike
 EUT Pol. : E1 Plane Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	ERP Level dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm	Margin dB
151.25	S	Peak	-64.23	-62.91	0.11	-1.44	-13.00	-51.23
222.06	S	Peak	-63.07	-66.79	5.43	-1.71	-13.00	-50.07
298.69	S	Peak	-65.47	-69.27	5.75	-1.95	-13.00	-52.47
442.25	S	Peak	-66.04	-69.67	5.82	-2.19	-13.00	-53.04
641.10	S	Peak	-64.23	-67.11	5.31	-2.43	-13.00	-51.23
728.40	S	Peak	-58.79	-60.98	5.29	-3.11	-13.00	-45.79
1696.62	H	Peak	-55.57	-58.54	7.28	-4.31	-13.00	-42.57

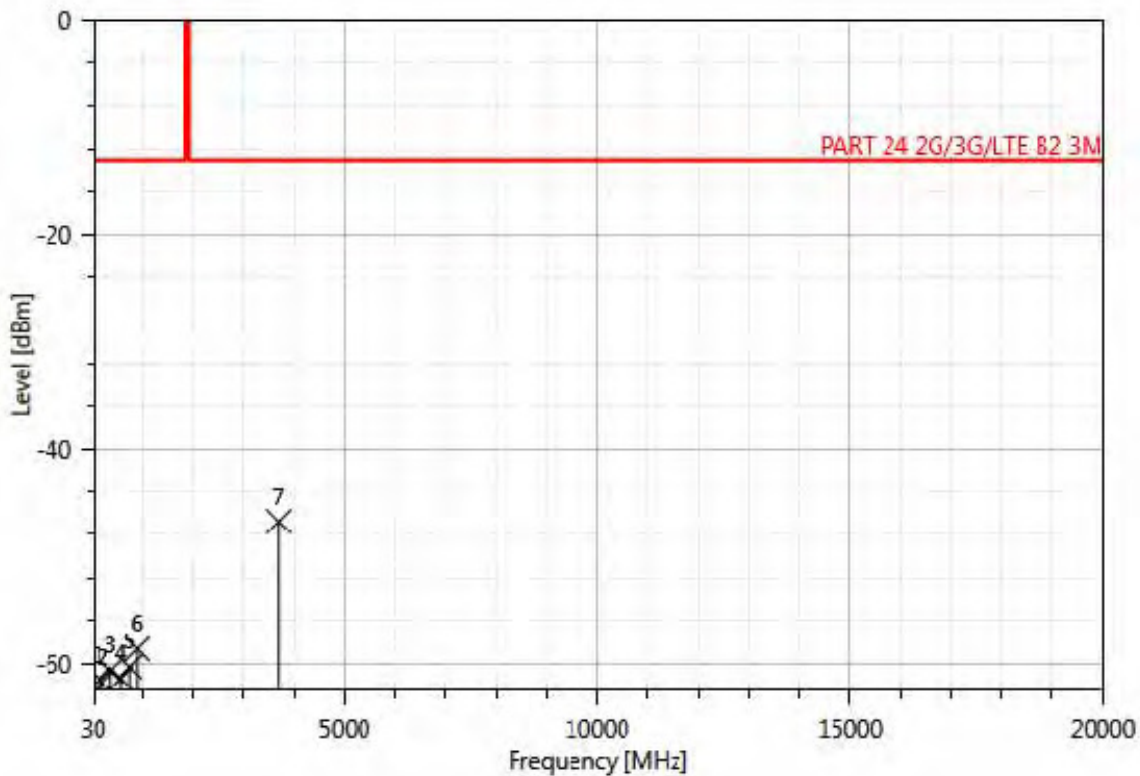
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Radiated Spurious Emission Measurement Result: CDMA (BC1) Mode

Operation Mode :	CDMA 1900	Test Date :	12/13/2016
Fundamental Frequency :	1851.25 MHz	Temp. / Humi. :	23 deg_C / 52 RH
Operation Band :	Tx CH LOW	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



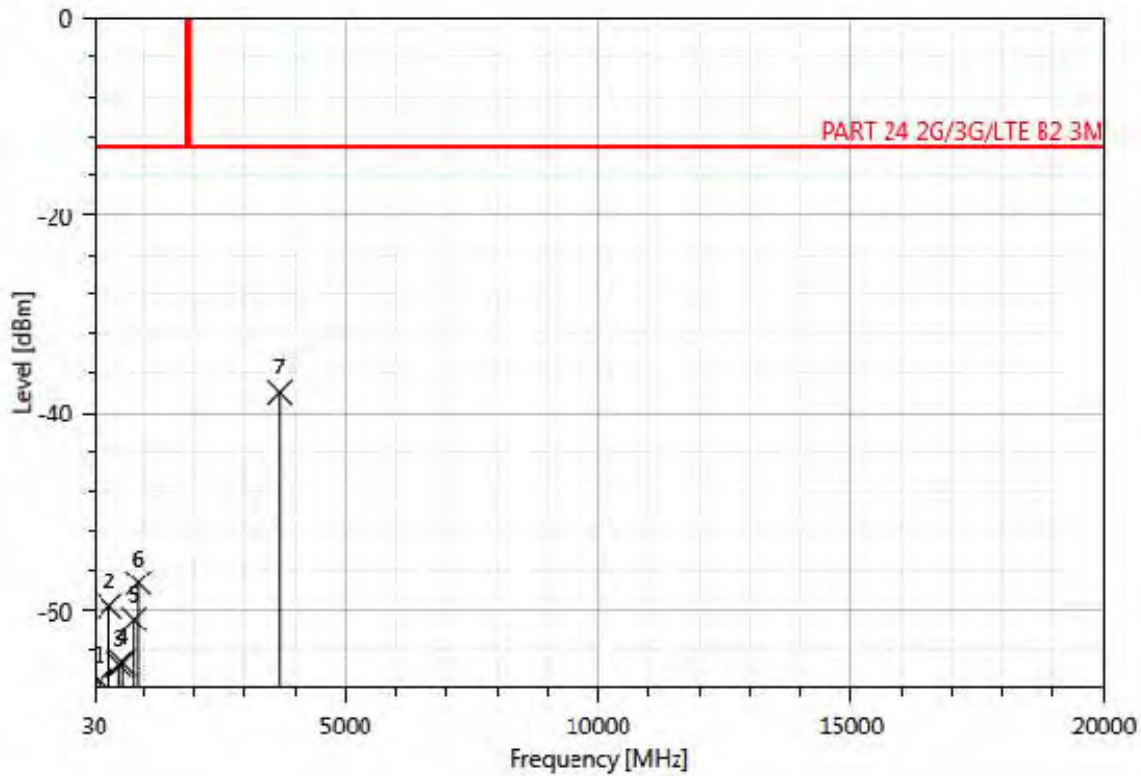
Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	EIRP Level dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm	Margin dB
148.34	S	Peak	-61.47	-60.00	-0.04	-1.42	-13.00	-48.47
217.21	S	Peak	-61.78	-65.61	5.53	-1.69	-13.00	-48.78
376.29	S	Peak	-60.68	-64.43	5.99	-2.24	-13.00	-47.68
579.99	S	Peak	-61.38	-64.12	5.53	-2.78	-13.00	-48.38
744.89	S	Peak	-60.33	-62.54	5.32	-3.11	-13.00	-47.33
893.30	S	Peak	-58.65	-60.77	5.42	-3.29	-13.00	-45.65
3702.50	H	Peak	-46.75	-52.61	12.44	-6.58	-13.00	-33.75

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Operation Mode : CDMA 1900 Test Date : 12/13/2016
 Fundamental Frequency : 1851.25 MHz Temp. / Humi. : 23 deg_C / 52 RH
 Operation Band : Tx CH LOW Test Engineer : Mike
 EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL



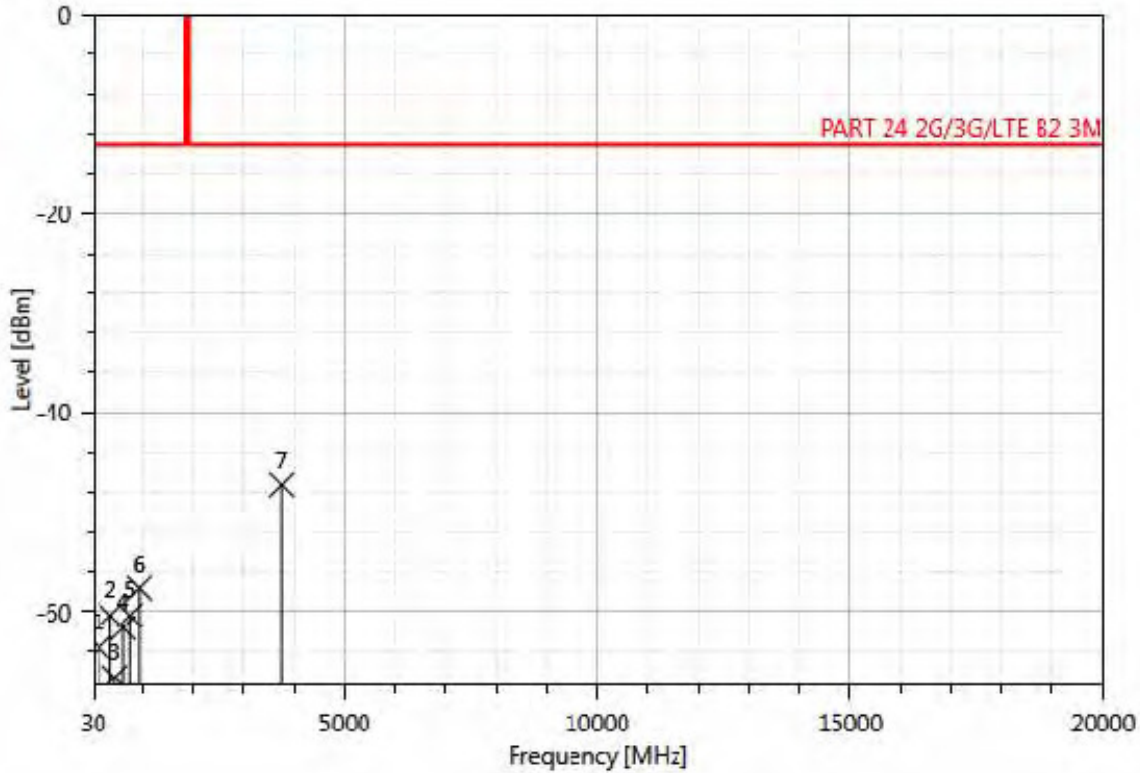
Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	EIRP Level dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm	Margin dB
134.76	S	Peak	-67.10	-65.21	-0.52	-1.38	-13.00	-54.10
327.79	S	Peak	-59.57	-63.56	5.91	-1.92	-13.00	-46.57
520.82	S	Peak	-65.45	-68.94	5.89	-2.40	-13.00	-52.45
594.54	S	Peak	-65.31	-67.96	5.43	-2.78	-13.00	-52.31
810.85	S	Peak	-60.92	-63.50	5.48	-2.89	-13.00	-47.92
893.30	S	Peak	-57.24	-59.36	5.42	-3.29	-13.00	-44.24
3702.50	H	Peak	-37.95	-43.81	12.44	-6.58	-13.00	-24.95

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Operation Mode :	CDMA 1900	Test Date :	12/13/2016
Fundamental Frequency :	1880 MHz	Temp. / Humi. :	23 deg_C / 52 RH
Operation Band :	Tx CH MID	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	EIRP Level dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm	Margin dB
153.19	S	Peak	-63.67	-62.43	0.20	-1.44	-13.00	-50.67
372.41	S	Peak	-60.40	-64.18	5.99	-2.21	-13.00	-47.40
458.74	S	Peak	-66.64	-70.27	5.83	-2.20	-13.00	-53.64
621.70	S	Peak	-61.67	-64.48	5.35	-2.53	-13.00	-48.67
752.65	S	Peak	-60.41	-62.69	5.34	-3.06	-13.00	-47.41
934.04	S	Peak	-57.70	-59.73	5.26	-3.23	-13.00	-44.70
3760.00	H	Peak	-47.32	-53.17	12.45	-6.60	-13.00	-34.32

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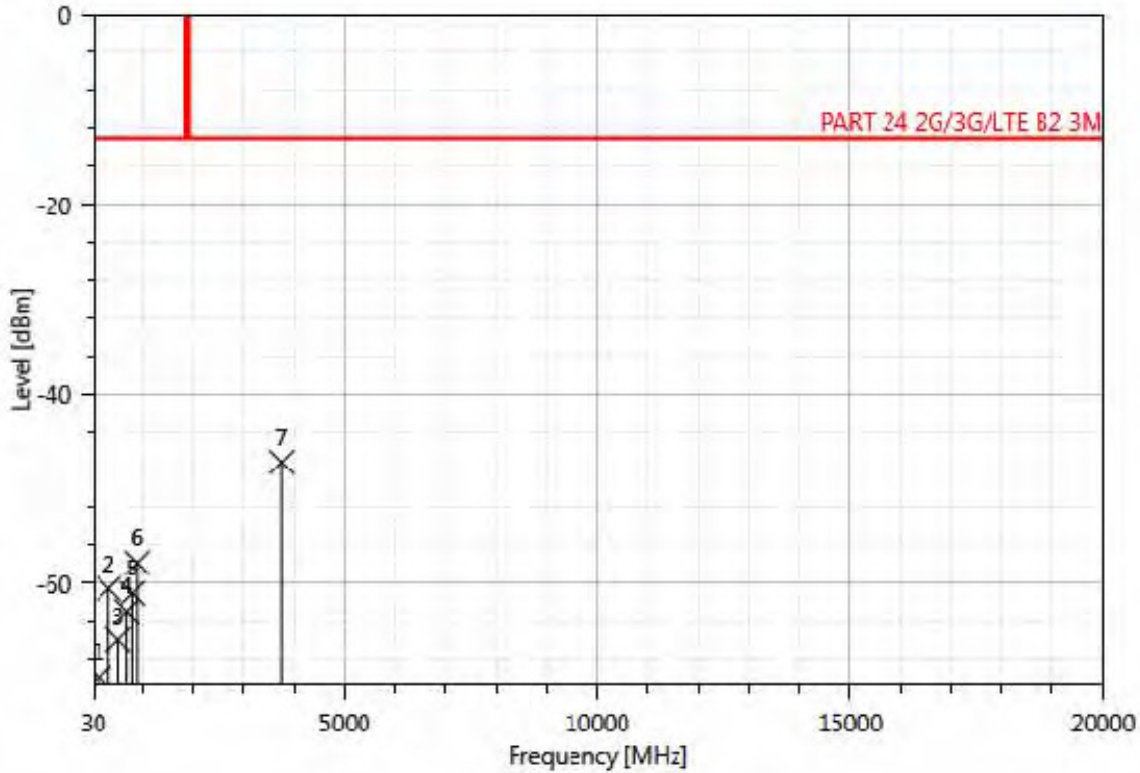
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Operation Mode : CDMA 1900 Test Date : 12/13/2016
 Fundamental Frequency : 1880 MHz Temp. / Humi. : 23 deg_C / 52 RH
 Operation Band : Tx CH MID Test Engineer : Mike
 EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL



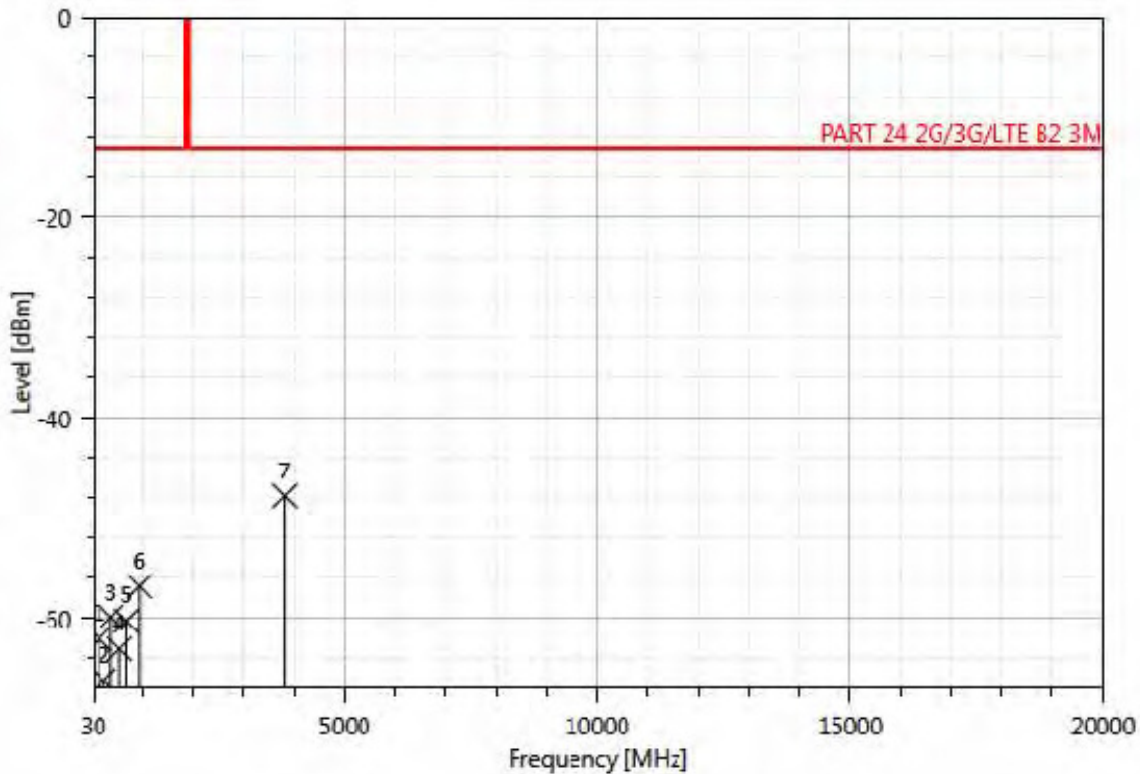
Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	EIRP Level dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm	Margin dB
148.34	S	Peak	-69.93	-68.47	-0.04	-1.42	-13.00	-56.93
335.55	S	Peak	-60.58	-64.59	5.95	-1.93	-13.00	-47.58
521.79	S	Peak	-66.00	-69.48	5.89	-2.41	-13.00	-53.00
689.60	S	Peak	-62.94	-65.39	5.24	-2.79	-13.00	-49.94
798.24	S	Peak	-61.07	-63.65	5.49	-2.90	-13.00	-48.07
893.30	S	Peak	-57.85	-59.97	5.42	-3.29	-13.00	-44.85
3760.00	H	Peak	-47.21	-53.07	12.45	-6.60	-13.00	-34.21

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Operation Mode :	CDMA 1900	Test Date :	12/13/2016
Fundamental Frequency :	1908.75 MHz	Temp. / Humi. :	23 deg_C / 52 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



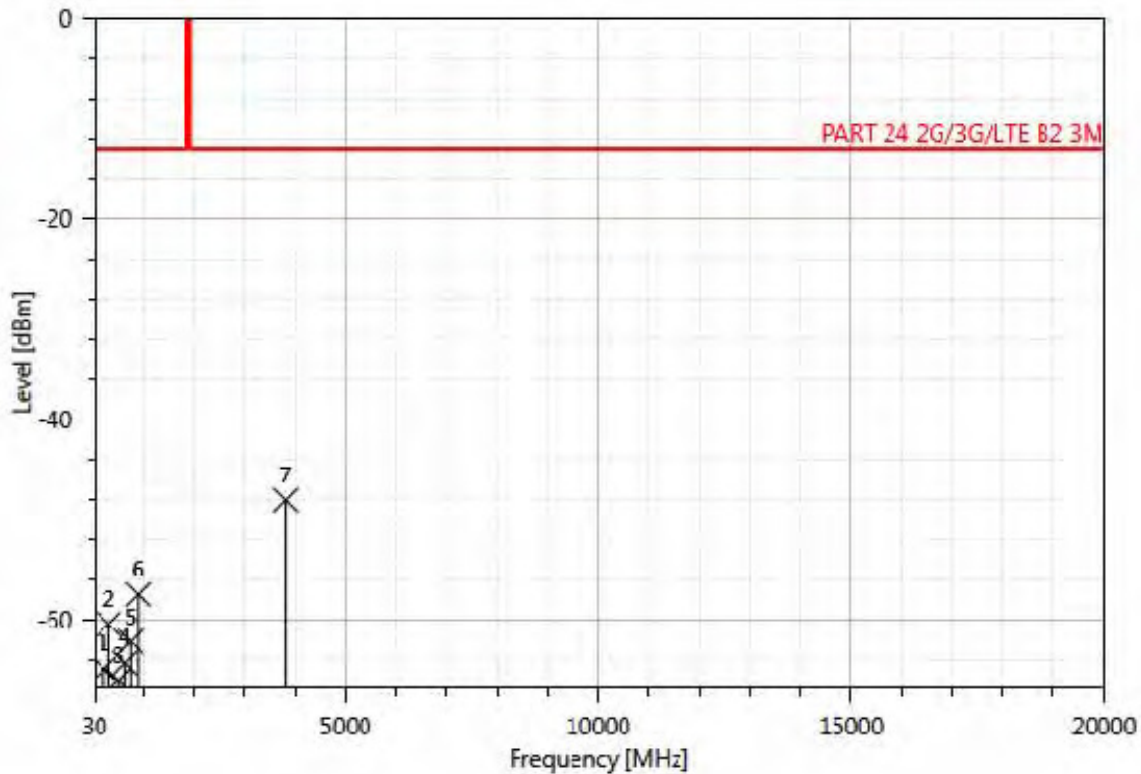
Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	EIRP Level dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm	Margin dB
154.16	S	Peak	-62.07	-60.87	0.25	-1.45	-13.00	-49.07
235.64	S	Peak	-66.24	-69.86	5.36	-1.73	-13.00	-53.24
382.11	S	Peak	-59.91	-63.62	5.98	-2.27	-13.00	-46.91
548.95	S	Peak	-63.09	-66.14	5.74	-2.69	-13.00	-50.09
681.84	S	Peak	-60.29	-62.89	5.25	-2.65	-13.00	-47.29
934.04	S	Peak	-56.84	-58.87	5.26	-3.23	-13.00	-43.84
3817.50	H	Peak	-47.80	-53.62	12.47	-6.64	-13.00	-34.80

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Operation Mode :	CDMA 1900	Test Date :	12/13/2016
Fundamental Frequency :	1908.75 MHz	Temp. / Humi. :	23 deg_C / 52 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	EIRP Level dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm	Margin dB
224.00	S	Peak	-64.90	-68.57	5.39	-1.71	-13.00	-51.90
319.06	S	Peak	-60.43	-64.37	5.87	-1.92	-13.00	-47.43
513.06	S	Peak	-66.05	-69.63	5.94	-2.35	-13.00	-53.05
638.19	S	Peak	-64.30	-67.17	5.31	-2.44	-13.00	-51.30
752.65	S	Peak	-62.18	-64.46	5.34	-3.06	-13.00	-49.18
893.30	S	Peak	-57.49	-59.61	5.42	-3.29	-13.00	-44.49
3817.50	H	Peak	-48.07	-53.89	12.47	-6.64	-13.00	-35.07

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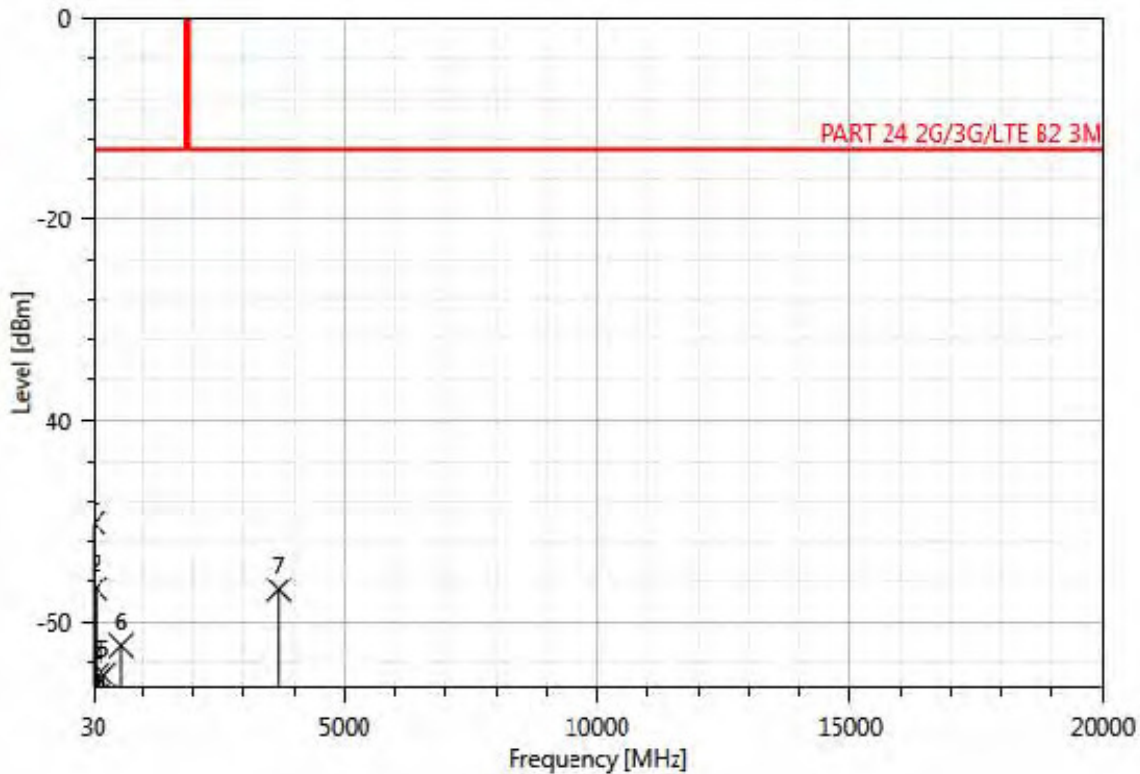
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Radiated Spurious Emission Measurement Result: WCDMA Band 2 Mode

Operation Mode :	WCDMA B2	Test Date :	12/14/2016
Fundamental Frequency :	1852.4 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL

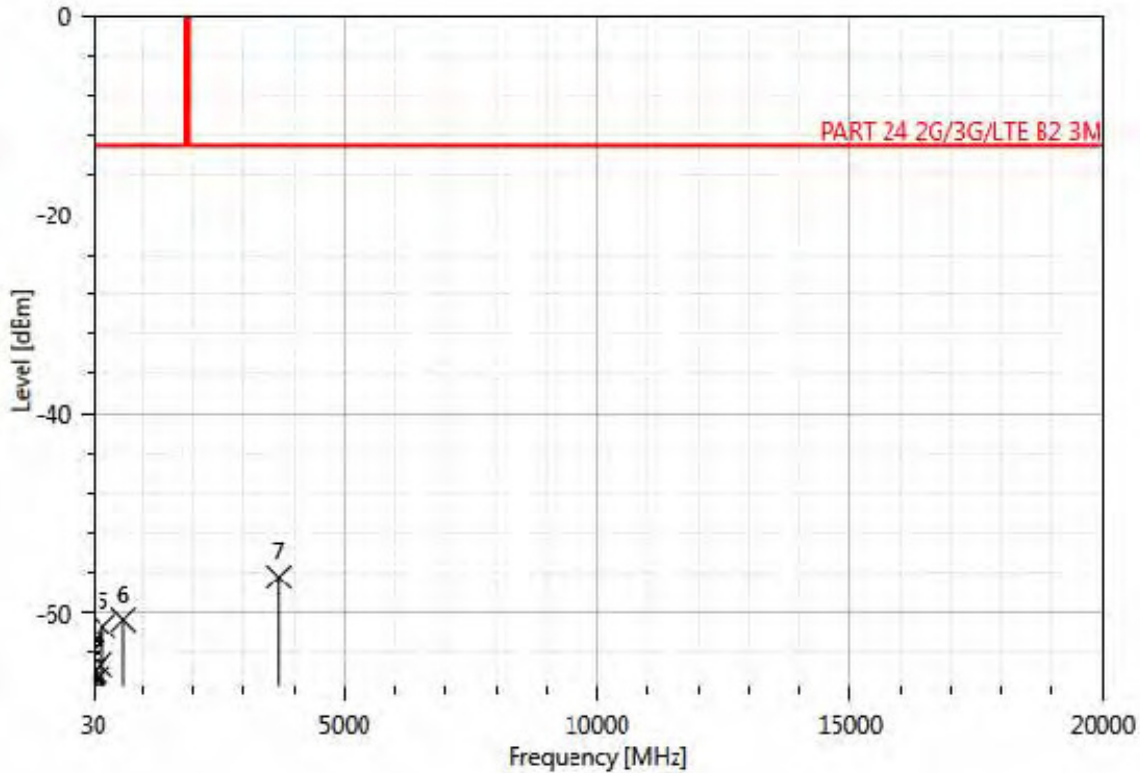


Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	EIRP Level dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm	Margin dB
34.85	S	Peak	-50.17	-37.68	-11.52	-0.97	-13.00	-37.17
76.56	S	Peak	-56.70	-53.84	-1.72	-1.14	-13.00	-43.70
114.39	S	Peak	-65.30	-63.68	-0.32	-1.30	-13.00	-52.30
133.79	S	Peak	-65.83	-63.95	-0.51	-1.37	-13.00	-52.83
241.46	S	Peak	-65.25	-68.97	5.46	-1.74	-13.00	-52.25
585.81	S	Peak	-62.40	-65.10	5.49	-2.79	-13.00	-49.40
3704.80	H	Peak	-56.84	-62.70	12.44	-6.58	-13.00	-43.84

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Operation Mode :	WCDMA B2	Test Date :	12/14/2016
Fundamental Frequency :	1852.4 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL

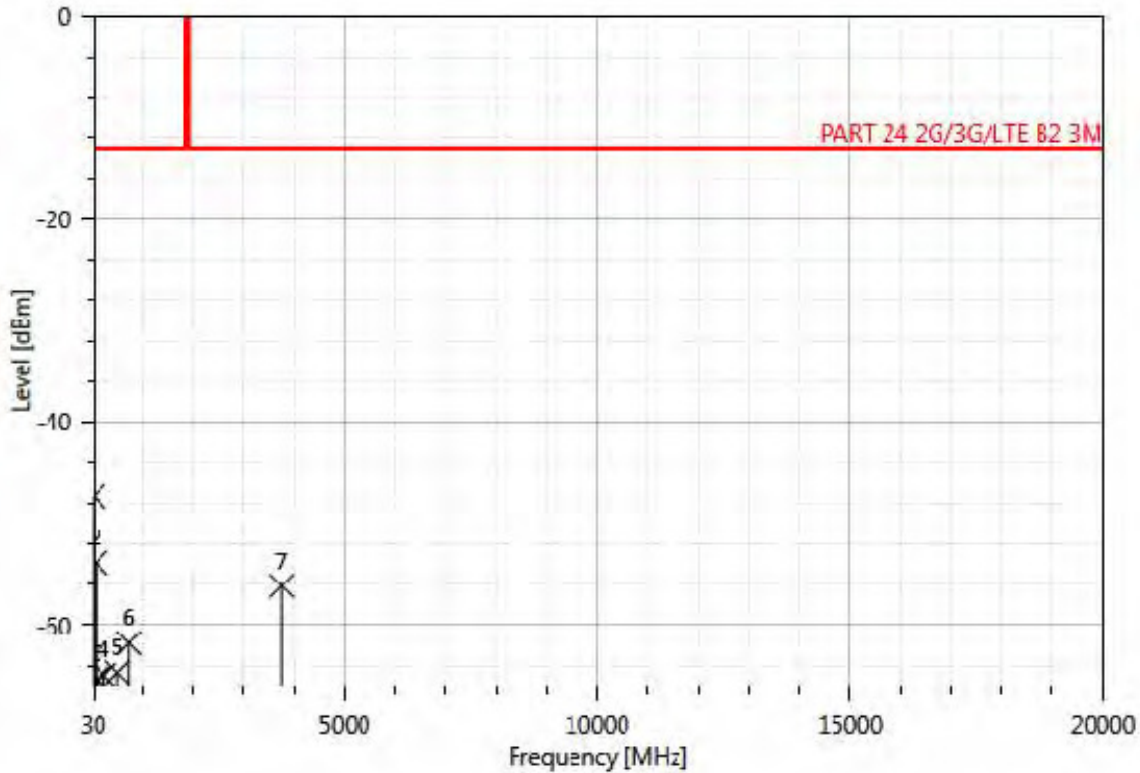


Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	EIRP Level dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm	Margin dB
41.64	S	Peak	-65.96	-54.27	-10.68	-1.00	-13.00	-52.96
73.65	S	Peak	-65.79	-62.06	-2.60	-1.13	-13.00	-52.79
112.45	S	Peak	-66.64	-65.01	-0.33	-1.30	-13.00	-53.64
165.80	S	Peak	-65.21	-64.64	0.94	-1.50	-13.00	-52.21
222.06	S	Peak	-61.36	-65.08	5.43	-1.71	-13.00	-48.36
624.61	S	Peak	-60.68	-63.51	5.34	-2.51	-13.00	-47.68
3704.80	H	Peak	-56.42	-62.28	12.44	-6.58	-13.00	-43.42

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Operation Mode :	WCDMA B2	Test Date :	12/14/2016
Fundamental Frequency :	1880 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	EIRP Level dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm	Margin dB
34.85	S	Peak	-47.36	-34.87	-11.52	-0.97	-13.00	-34.36
76.56	S	Peak	-53.88	-51.02	-1.72	-1.14	-13.00	-40.88
110.51	S	Peak	-65.32	-63.69	-0.34	-1.29	-13.00	-52.32
243.40	S	Peak	-64.97	-68.71	5.49	-1.75	-13.00	-51.97
510.15	S	Peak	-64.70	-68.31	5.95	-2.34	-13.00	-51.70
733.25	S	Peak	-61.81	-63.99	5.30	-3.12	-13.00	-48.81
3760.00	H	Peak	-56.18	-62.03	12.45	-6.60	-13.00	-43.18

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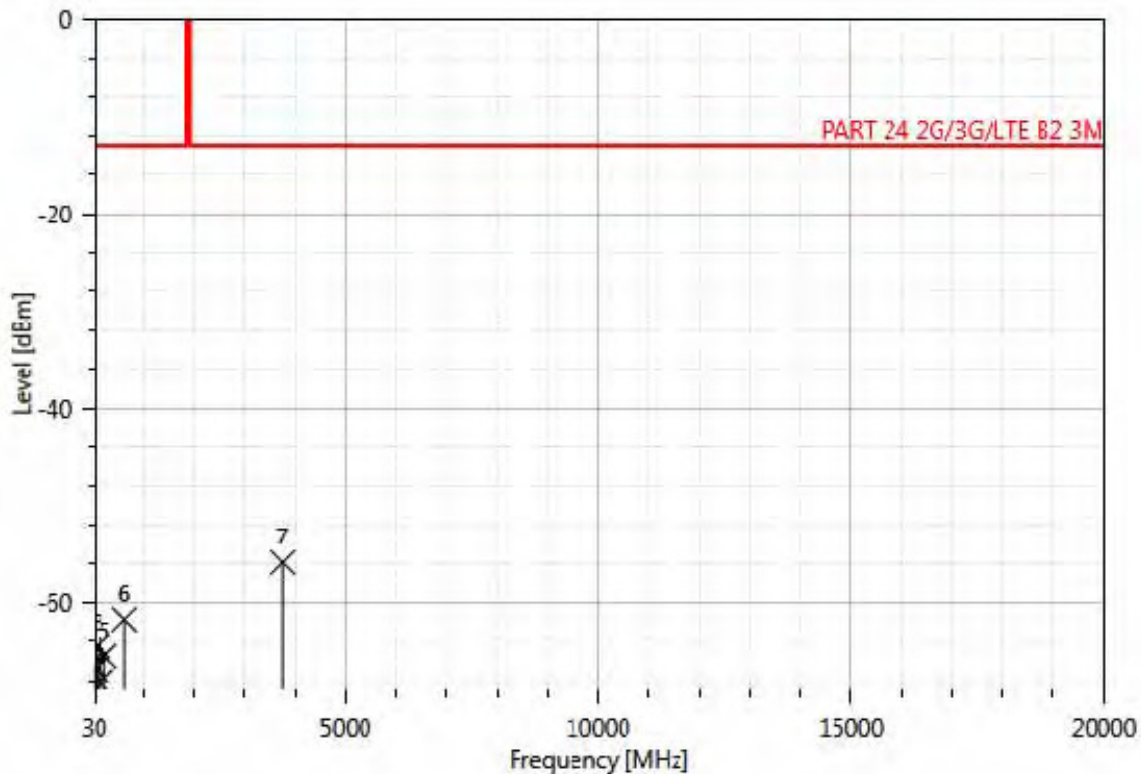
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Operation Mode :	WCDMA B2	Test Date :	12/14/2016
Fundamental Frequency :	1880 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	EIRP Level dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm	Margin dB
39.70	S	Peak	-66.29	-54.33	-10.96	-0.99	-13.00	-53.29
78.50	S	Peak	-66.85	-64.56	-1.14	-1.15	-13.00	-53.85
112.45	S	Peak	-64.49	-62.87	-0.33	-1.30	-13.00	-51.49
165.80	S	Peak	-68.09	-67.52	0.94	-1.50	-13.00	-55.09
235.64	S	Peak	-65.47	-69.10	5.36	-1.73	-13.00	-52.47
626.55	S	Peak	-61.68	-64.53	5.34	-2.49	-13.00	-48.68
3760.00	H	Peak	-55.80	-61.66	12.45	-6.60	-13.00	-42.80

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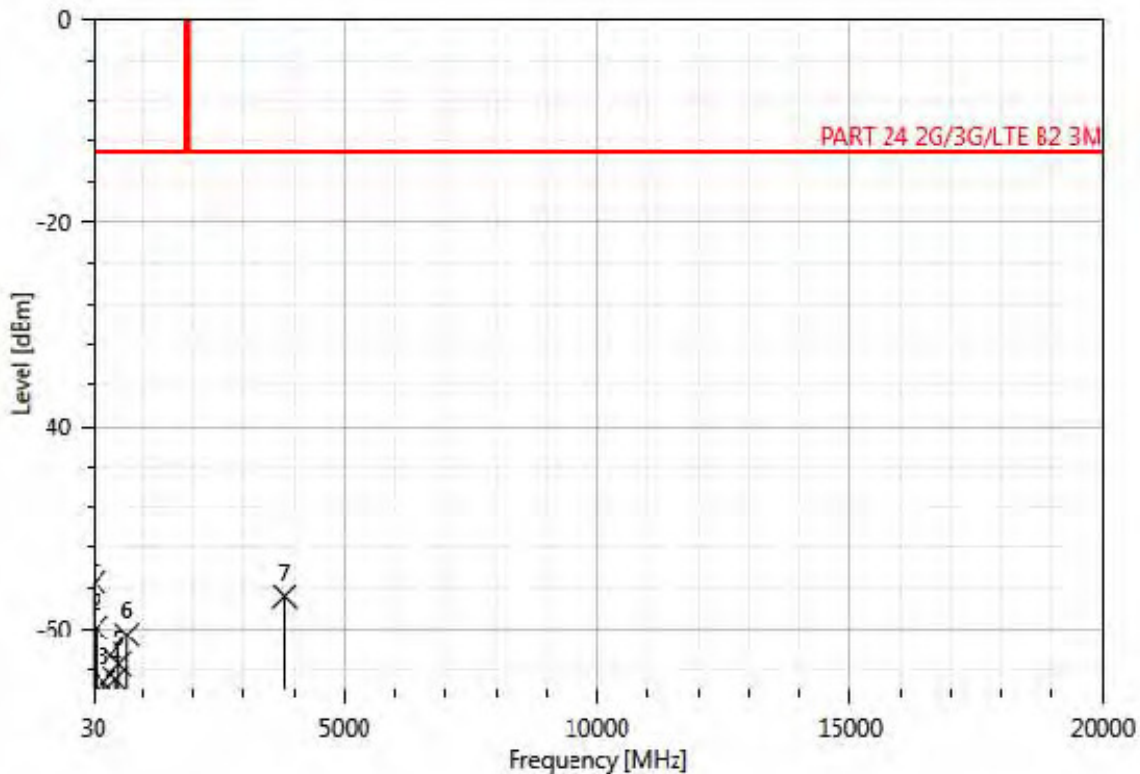
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Operation Mode :	WCDMA B2	Test Date :	12/14/2016
Fundamental Frequency :	1907.6 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	EIRP Level dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm	Margin dB
39.70	S	Peak	-55.39	-43.43	-10.96	-0.99	-13.00	-42.39
83.35	S	Peak	-59.85	-58.81	0.14	-1.18	-13.00	-46.85
238.55	S	Peak	-65.16	-68.83	5.41	-1.74	-13.00	-52.16
474.26	S	Peak	-64.87	-68.54	5.90	-2.23	-13.00	-51.87
536.34	S	Peak	-63.39	-66.64	5.81	-2.56	-13.00	-50.39
692.51	S	Peak	-60.56	-62.95	5.24	-2.84	-13.00	-47.56
3815.20	H	Peak	-56.81	-62.64	12.46	-6.63	-13.00	-43.81

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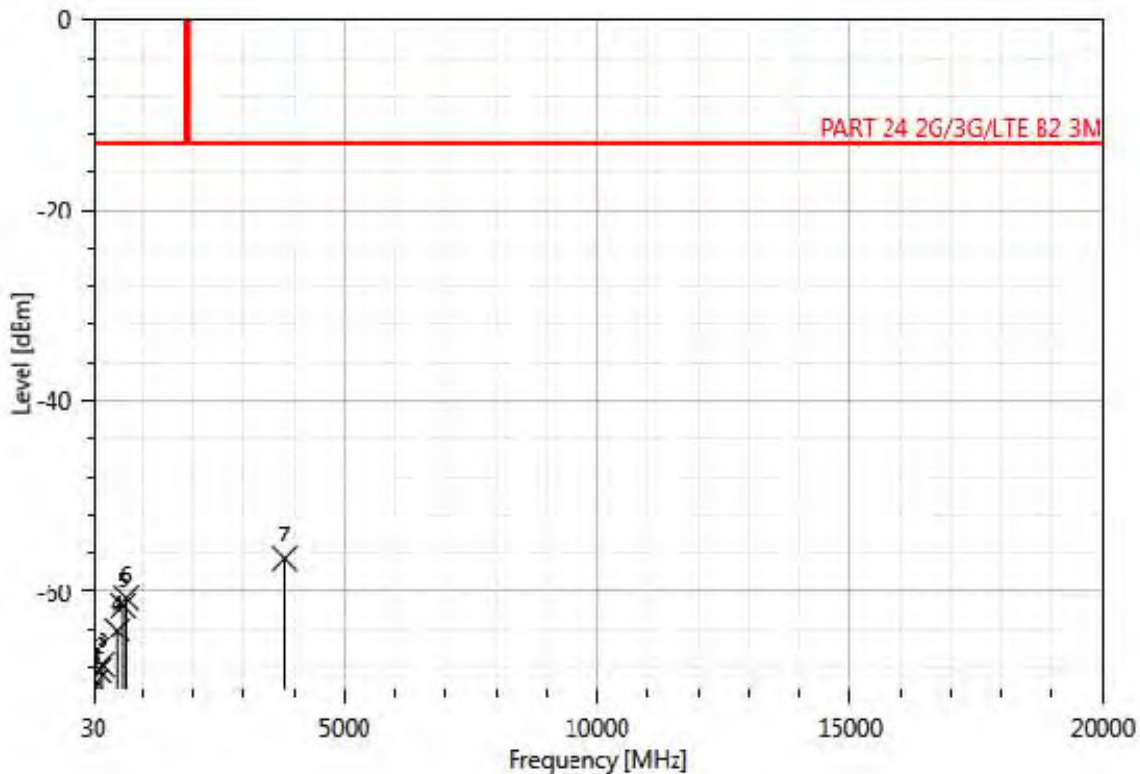
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Operation Mode :	WCDMA B2	Test Date :	12/14/2016
Fundamental Frequency :	1907.6 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	EIRP Level dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm	Margin dB
95.96	S	Peak	-69.47	-69.23	0.99	-1.23	-13.00	-56.47
162.89	S	Peak	-68.29	-67.53	0.73	-1.49	-13.00	-55.29
222.06	S	Peak	-67.66	-71.38	5.43	-1.71	-13.00	-54.66
513.06	S	Peak	-64.07	-67.65	5.94	-2.35	-13.00	-51.07
625.58	S	Peak	-61.52	-64.36	5.34	-2.50	-13.00	-48.52
682.81	S	Peak	-60.74	-63.32	5.25	-2.67	-13.00	-47.74
3815.20	H	Peak	-56.56	-62.39	12.46	-6.63	-13.00	-43.56

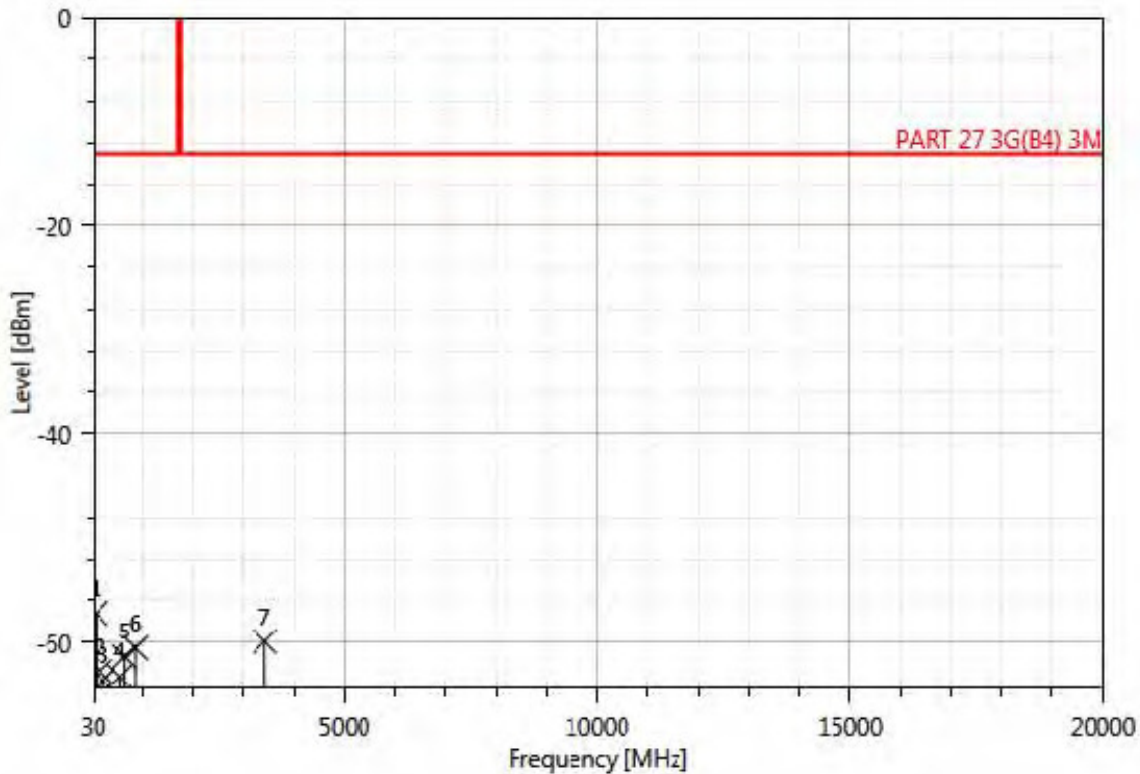
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Radiated Spurious Emission Measurement Result: WCDMA Band 4 Mode

Operation Mode :	WCDMA B4	Test Date :	12/14/2016
Fundamental Frequency :	1712.4 MHz	Temp. / Humi. :	22 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	EIRP Level dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm	Margin dB
83.35	S	Peak	-57.22	-56.18	0.14	-1.18	-13.00	-44.22
167.74	S	Peak	-62.79	-62.35	1.08	-1.51	-13.00	-49.79
225.94	S	Peak	-63.68	-67.31	5.35	-1.72	-13.00	-50.68
558.65	S	Peak	-63.30	-66.22	5.68	-2.76	-13.00	-50.30
647.89	S	Peak	-61.37	-64.25	5.29	-2.41	-13.00	-48.37
859.35	S	Peak	-60.56	-62.90	5.42	-3.08	-13.00	-47.56
3424.80	H	Peak	-59.93	-65.97	12.27	-6.23	-13.00	-46.93

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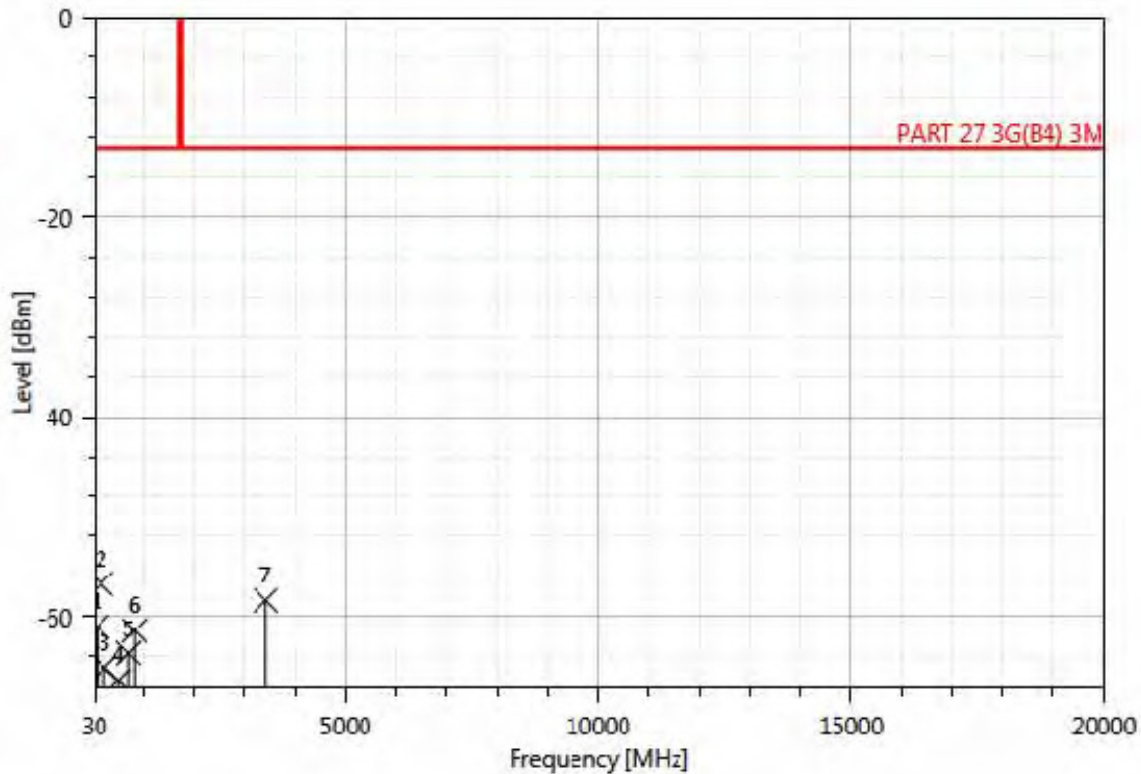
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Operation Mode :	WCDMA B4	Test Date :	12/14/2016
Fundamental Frequency :	1712.4 MHz	Temp. / Humi. :	22 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL

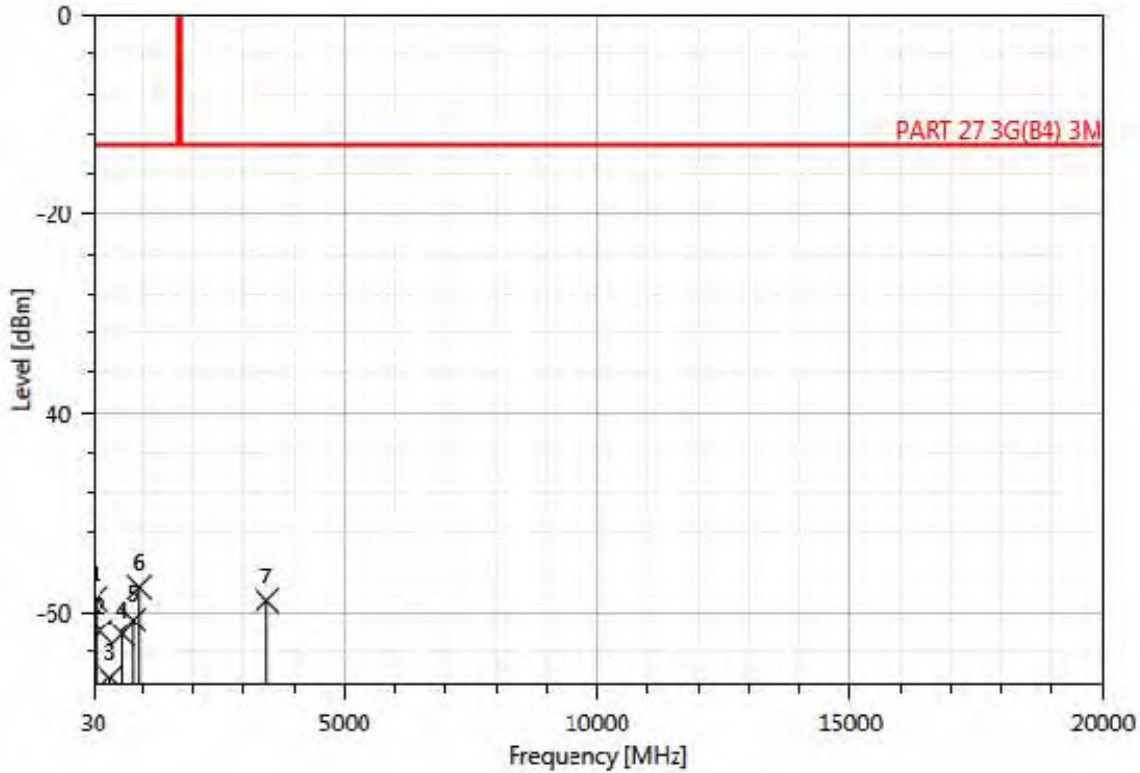


Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	EIRP Level dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm	Margin dB
83.35	S	Peak	-61.07	-60.02	0.14	-1.18	-13.00	-48.07
165.80	S	Peak	-56.75	-56.18	0.94	-1.50	-13.00	-43.75
231.76	S	Peak	-65.14	-68.70	5.29	-1.73	-13.00	-52.14
513.06	S	Peak	-66.43	-70.01	5.94	-2.35	-13.00	-53.43
706.09	S	Peak	-63.71	-65.92	5.24	-3.04	-13.00	-50.71
825.40	S	Peak	-61.43	-63.96	5.45	-2.93	-13.00	-48.43
3424.80	H	Peak	-58.41	-64.45	12.27	-6.23	-13.00	-45.41

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Operation Mode :	WCDMA B4	Test Date :	12/14/2016
Fundamental Frequency :	1732.6 MHz	Temp. / Humi. :	22 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	EIRP Level dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm	Margin dB
80.44	S	Peak	-58.71	-56.95	-0.60	-1.16	-13.00	-45.71
168.71	S	Peak	-61.95	-61.58	1.15	-1.51	-13.00	-48.95
364.65	S	Peak	-66.57	-70.41	6.00	-2.16	-13.00	-53.57
605.21	S	Peak	-62.24	-64.94	5.38	-2.68	-13.00	-49.24
815.70	S	Peak	-60.80	-63.37	5.47	-2.90	-13.00	-47.80
930.16	S	Peak	-57.57	-59.60	5.27	-3.24	-13.00	-44.57
3465.20	H	Peak	-58.85	-64.95	12.34	-6.25	-13.00	-45.85

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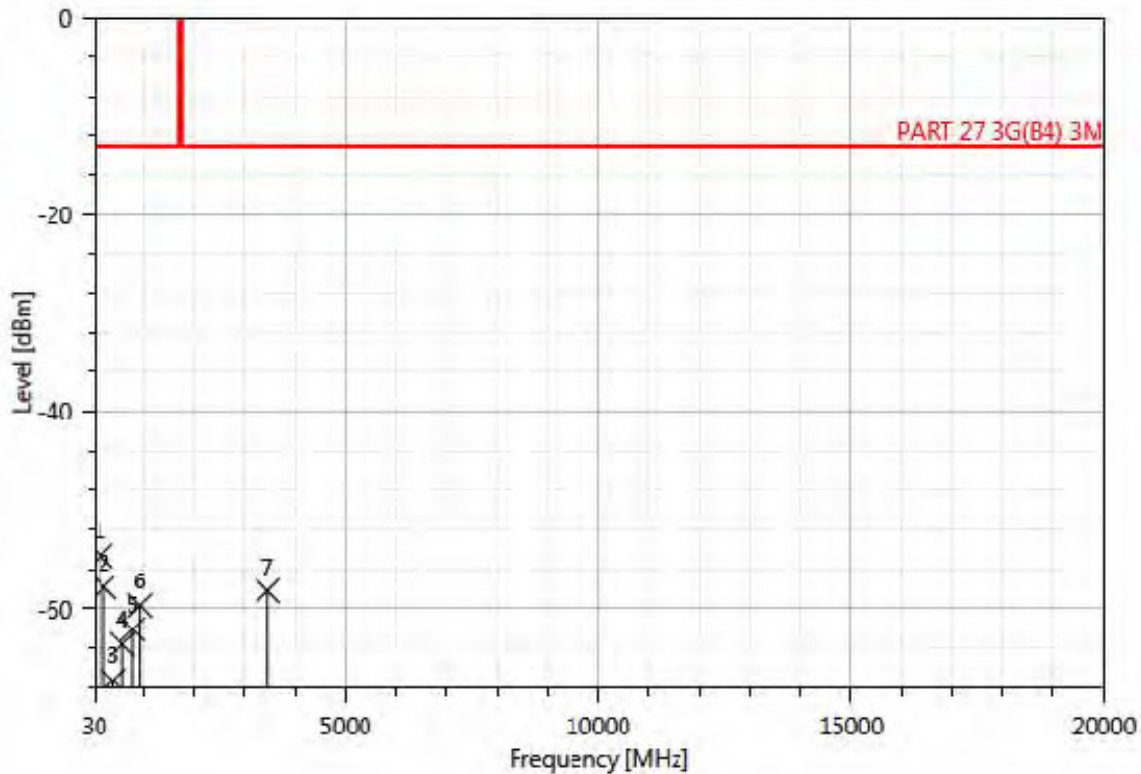
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Operation Mode :	WCDMA B4	Test Date :	12/14/2016
Fundamental Frequency :	1732.6 MHz	Temp. / Humi. :	22 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



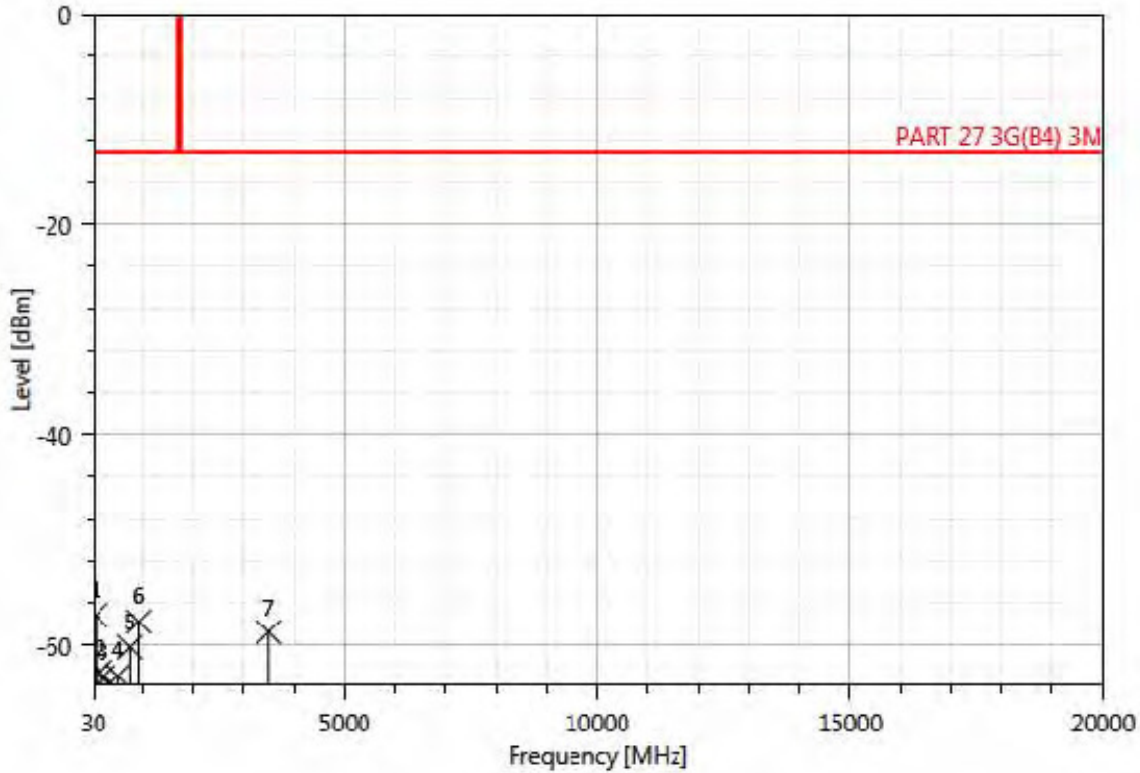
Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	EIRP Level dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm	Margin dB
159.01	S	Peak	-54.67	-53.67	0.47	-1.47	-13.00	-41.67
225.94	S	Peak	-57.84	-61.47	5.35	-1.72	-13.00	-44.84
405.39	S	Peak	-67.33	-70.87	5.95	-2.41	-13.00	-54.33
587.75	S	Peak	-63.66	-66.33	5.47	-2.79	-13.00	-50.66
783.69	S	Peak	-62.15	-64.68	5.44	-2.91	-13.00	-49.15
925.31	S	Peak	-59.73	-61.76	5.30	-3.26	-13.00	-46.73
3465.20	H	Peak	-58.24	-64.34	12.34	-6.25	-13.00	-45.24

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Operation Mode :	WCDMA B4	Test Date :	12/14/2016
Fundamental Frequency :	1752.6 MHz	Temp. / Humi. :	22 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	EIRP Level dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm	Margin dB
78.50	S	Peak	-57.11	-54.81	-1.14	-1.15	-13.00	-44.11
167.74	S	Peak	-62.52	-62.09	1.08	-1.51	-13.00	-49.52
222.06	S	Peak	-63.02	-66.74	5.43	-1.71	-13.00	-50.02
517.91	S	Peak	-62.88	-66.42	5.91	-2.37	-13.00	-49.88
754.59	S	Peak	-60.14	-62.44	5.35	-3.05	-13.00	-47.14
920.46	S	Peak	-57.72	-59.77	5.32	-3.26	-13.00	-44.72
3505.20	H	Peak	-58.70	-64.64	12.40	-6.47	-13.00	-45.70

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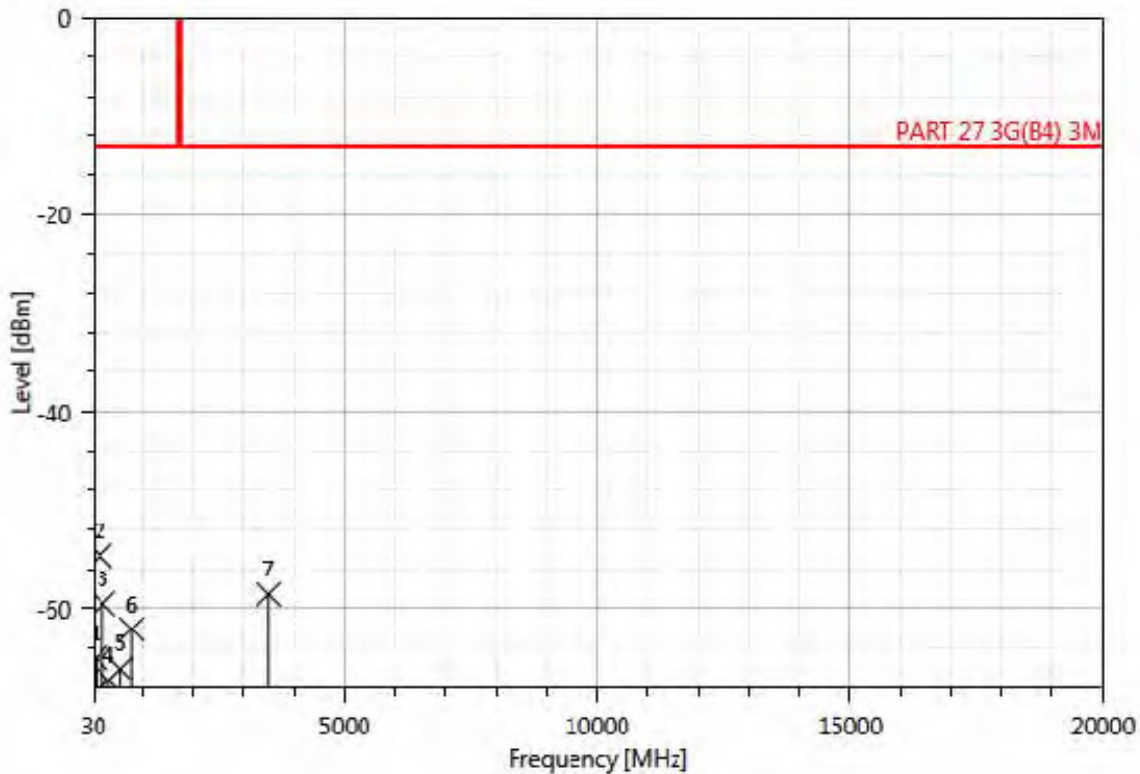
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Operation Mode :	WCDMA B4	Test Date :	12/14/2016
Fundamental Frequency :	1752.6 MHz	Temp. / Humi. :	22 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	EIRP Level dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm	Margin dB
83.35	S	Peak	-64.98	-63.94	0.14	-1.18	-13.00	-51.98
165.80	S	Peak	-54.62	-54.05	0.94	-1.50	-13.00	-41.62
221.09	S	Peak	-59.50	-63.25	5.45	-1.71	-13.00	-46.50
337.49	S	Peak	-67.29	-71.29	5.95	-1.95	-13.00	-54.29
568.35	S	Peak	-66.11	-68.95	5.61	-2.77	-13.00	-53.11
786.60	S	Peak	-62.07	-64.62	5.45	-2.90	-13.00	-49.07
3505.20	H	Peak	-58.56	-64.50	12.40	-6.47	-13.00	-45.56

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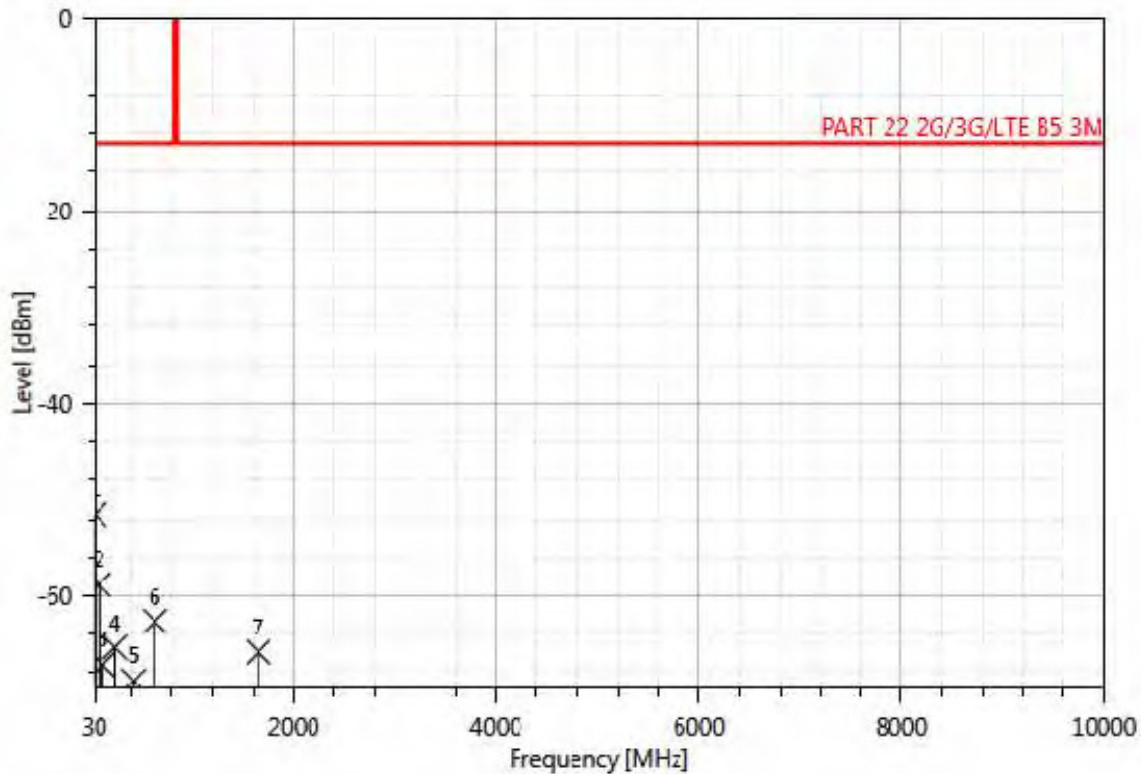
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Radiated Spurious Emission Measurement Result: WCDMA Band 5 Mode

Operation Mode :	WCDMA B5	Test Date :	12/14/2016
Fundamental Frequency :	826.4 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Mike
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



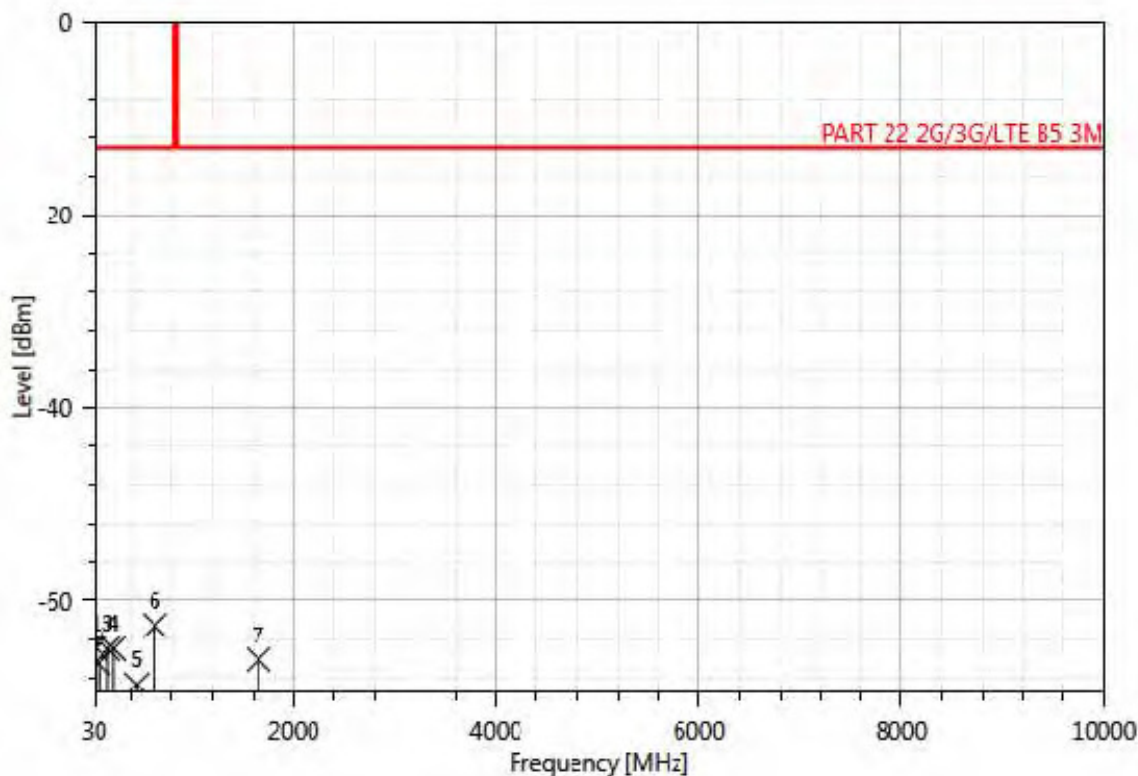
Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	ERP Level dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit @3m dBm	Margin dB
34.85	S	Peak	-51.50	-36.85	-13.67	-0.97	-13.00	-38.50
75.59	S	Peak	-58.81	-53.51	-4.16	-1.14	-13.00	-45.81
115.36	S	Peak	-67.13	-63.37	-2.46	-1.31	-13.00	-54.13
236.61	S	Peak	-65.34	-66.83	3.23	-1.73	-13.00	-52.34
418.00	S	Peak	-68.77	-70.18	3.76	-2.35	-13.00	-55.77
628.49	S	Peak	-62.61	-63.32	3.18	-2.47	-13.00	-49.61
1652.80	H	Peak	-65.83	-68.72	7.12	-4.24	-13.00	-52.83

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Operation Mode :	WCDMA B5	Test Date :	12/14/2016
Fundamental Frequency :	826.4 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Mike
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	ERP Level dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit @3m dBm	Margin dB
41.64	S	Peak	-64.92	-51.08	-12.83	-1.00	-13.00	-51.92
73.65	S	Peak	-66.45	-60.57	-4.75	-1.13	-13.00	-53.45
167.74	S	Peak	-65.03	-62.44	-1.07	-1.51	-13.00	-52.03
224.00	S	Peak	-65.00	-66.53	3.24	-1.71	-13.00	-52.00
447.10	S	Peak	-68.71	-70.18	3.65	-2.19	-13.00	-55.71
629.46	S	Peak	-62.59	-63.30	3.18	-2.47	-13.00	-49.59
1652.80	H	Peak	-66.13	-69.01	7.12	-4.24	-13.00	-53.13

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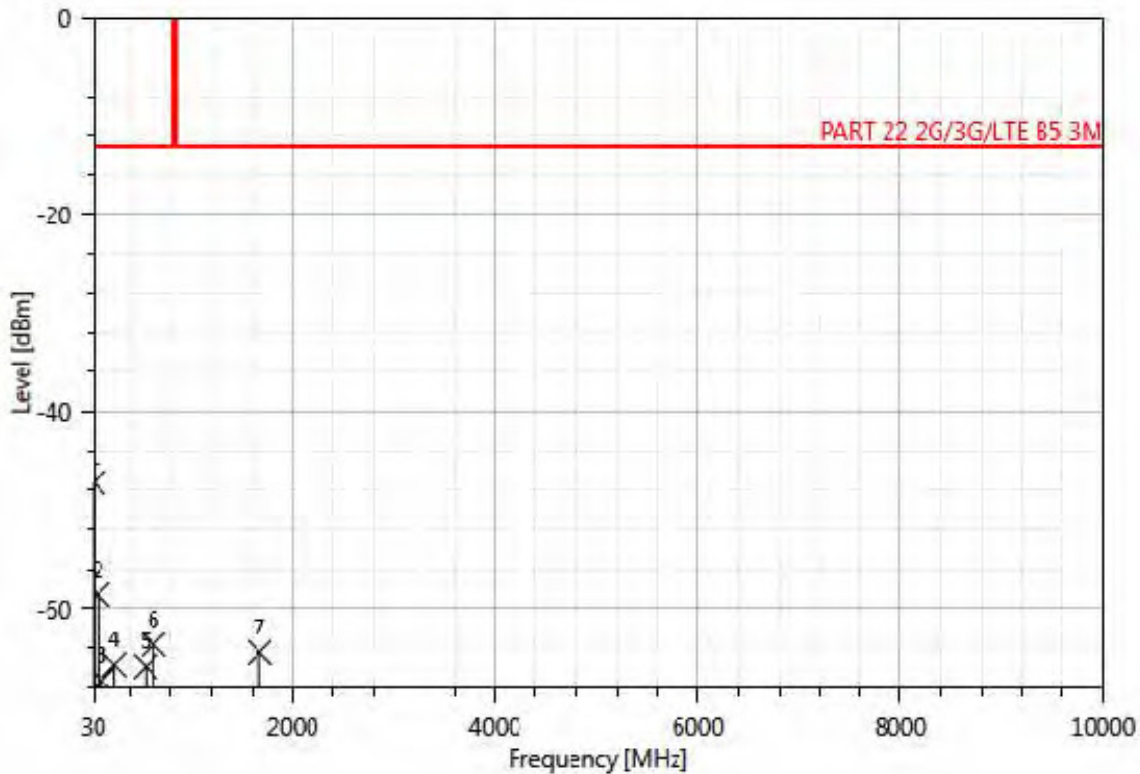
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Operation Mode :	WCDMA B5	Test Date :	12/14/2016
Fundamental Frequency :	836.6 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Mike
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



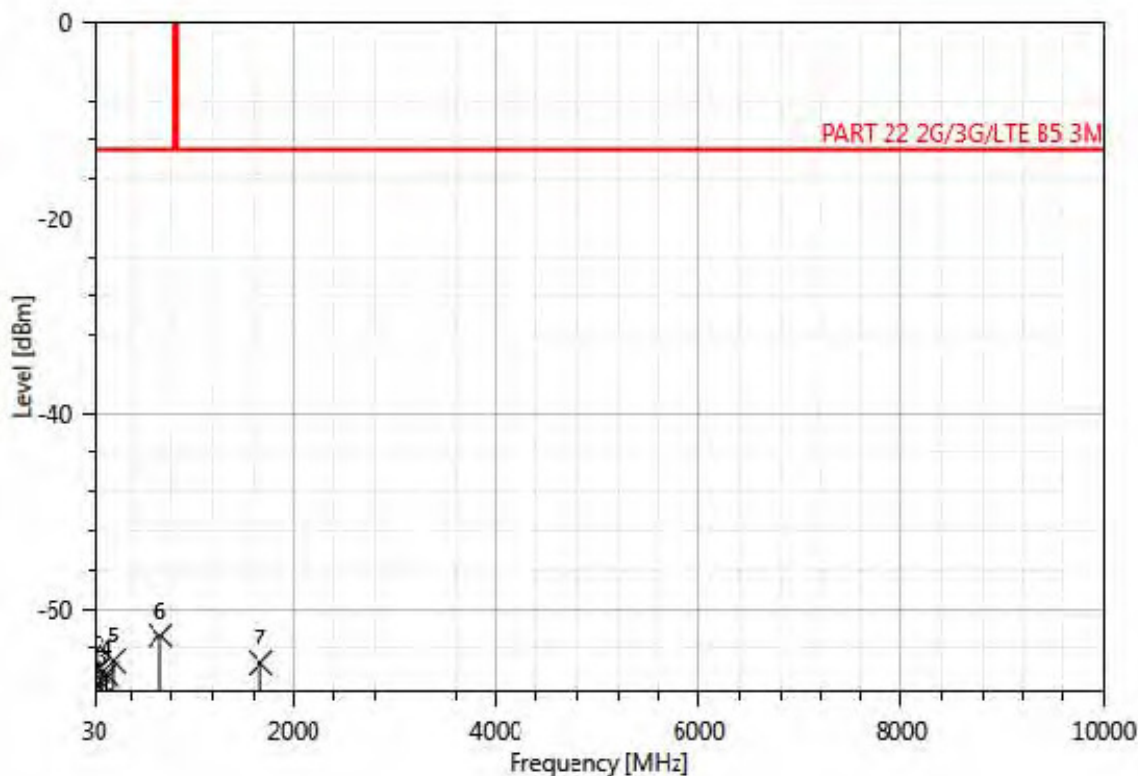
Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	ERP Level dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit @3m dBm	Margin dB
32.91	S	Peak	-47.23	-32.17	-14.09	-0.97	-13.00	-34.23
75.59	S	Peak	-58.64	-53.35	-4.16	-1.14	-13.00	-45.64
114.39	S	Peak	-67.34	-63.57	-2.47	-1.30	-13.00	-54.34
240.49	S	Peak	-65.71	-67.26	3.29	-1.74	-13.00	-52.71
548.95	S	Peak	-65.90	-66.80	3.59	-2.69	-13.00	-52.90
626.55	S	Peak	-63.69	-64.39	3.19	-2.49	-13.00	-50.69
1673.20	H	Peak	-64.50	-67.41	7.20	-4.29	-13.00	-51.50

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Operation Mode :	WCDMA B5	Test Date :	12/14/2016
Fundamental Frequency :	836.6 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Mike
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	ERP Level dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit @3m dBm	Margin dB
41.64	S	Peak	-67.71	-53.88	-12.83	-1.00	-13.00	-54.71
73.65	S	Peak	-66.24	-60.35	-4.75	-1.13	-13.00	-53.24
114.39	S	Peak	-67.46	-63.69	-2.47	-1.30	-13.00	-54.46
158.04	S	Peak	-66.62	-63.42	-1.73	-1.47	-13.00	-53.62
225.94	S	Peak	-65.31	-66.79	3.20	-1.72	-13.00	-52.31
682.81	S	Peak	-62.71	-63.14	3.10	-2.67	-13.00	-49.71
1673.20	H	Peak	-65.50	-68.41	7.20	-4.29	-13.00	-52.50

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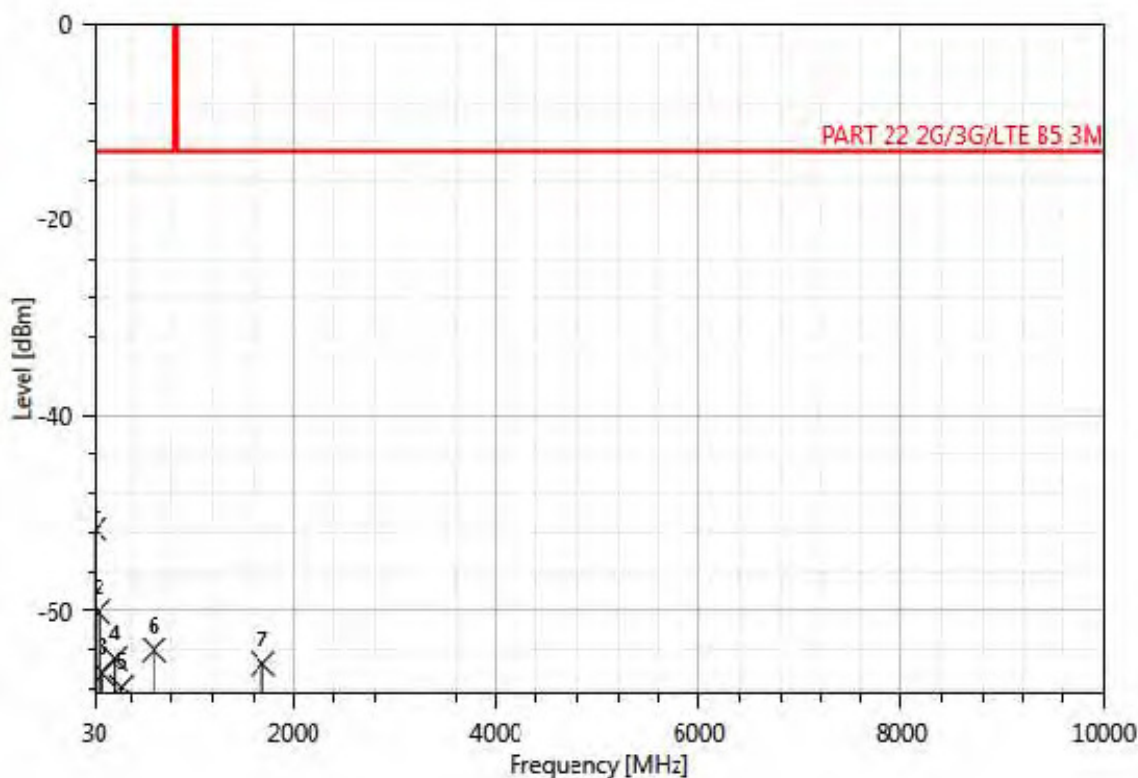
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Operation Mode :	WCDMA B5	Test Date :	12/14/2016
Fundamental Frequency :	846.6 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Mike
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	ERP Level dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit @3m dBm	Margin dB
34.85	S	Peak	-51.71	-37.06	-13.67	-0.97	-13.00	-38.71
74.62	S	Peak	-60.17	-54.58	-4.45	-1.13	-13.00	-47.17
114.39	S	Peak	-66.41	-62.64	-2.47	-1.30	-13.00	-53.41
238.55	S	Peak	-64.98	-66.50	3.26	-1.74	-13.00	-51.98
299.66	S	Peak	-67.82	-69.49	3.62	-1.95	-13.00	-54.82
621.70	S	Peak	-64.12	-64.78	3.20	-2.53	-13.00	-51.12
1693.20	H	Peak	-65.49	-68.45	7.27	-4.30	-13.00	-52.49

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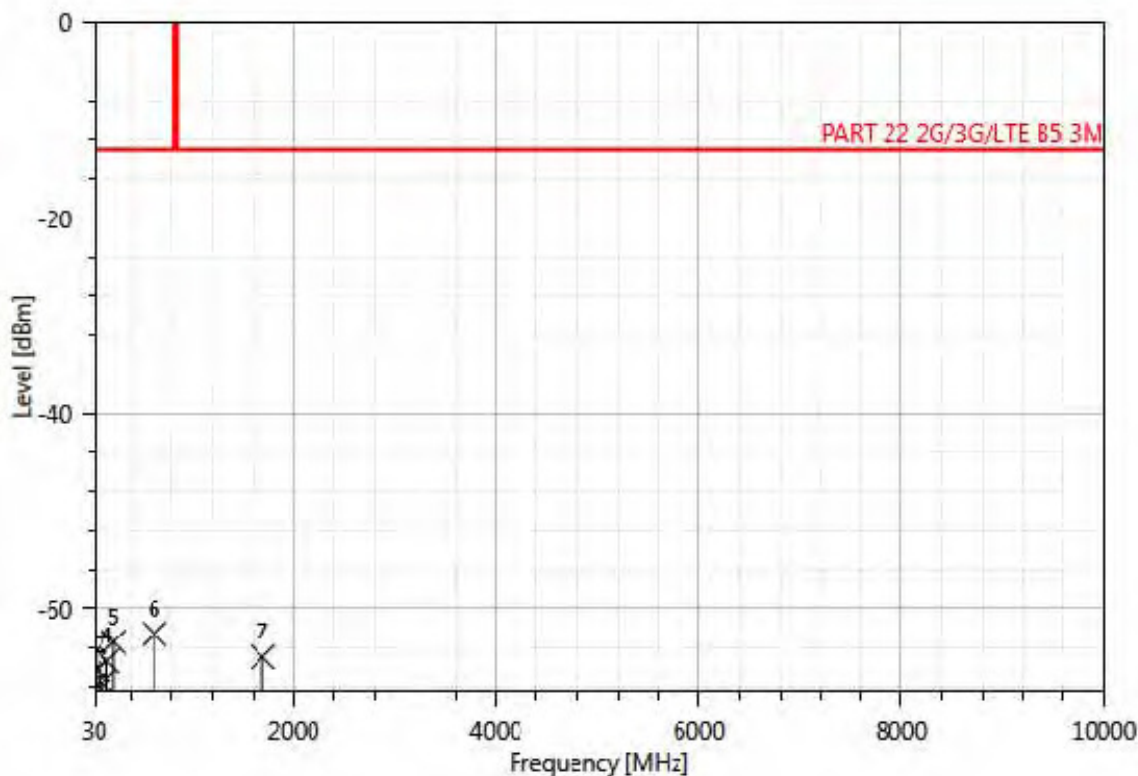
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Operation Mode :	WCDMA B5	Test Date :	12/14/2016
Fundamental Frequency :	846.6 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Mike
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	ERP Level dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit @3m dBm	Margin dB
39.70	S	Peak	-67.73	-53.63	-13.11	-0.99	-13.00	-54.73
73.65	S	Peak	-66.21	-60.33	-4.75	-1.13	-13.00	-53.21
114.39	S	Peak	-67.52	-63.75	-2.47	-1.30	-13.00	-54.52
159.01	S	Peak	-65.34	-62.19	-1.68	-1.47	-13.00	-52.34
224.00	S	Peak	-63.38	-64.90	3.24	-1.71	-13.00	-50.38
623.64	S	Peak	-62.56	-63.24	3.19	-2.52	-13.00	-49.56
1693.20	H	Peak	-64.92	-67.88	7.27	-4.30	-13.00	-51.92

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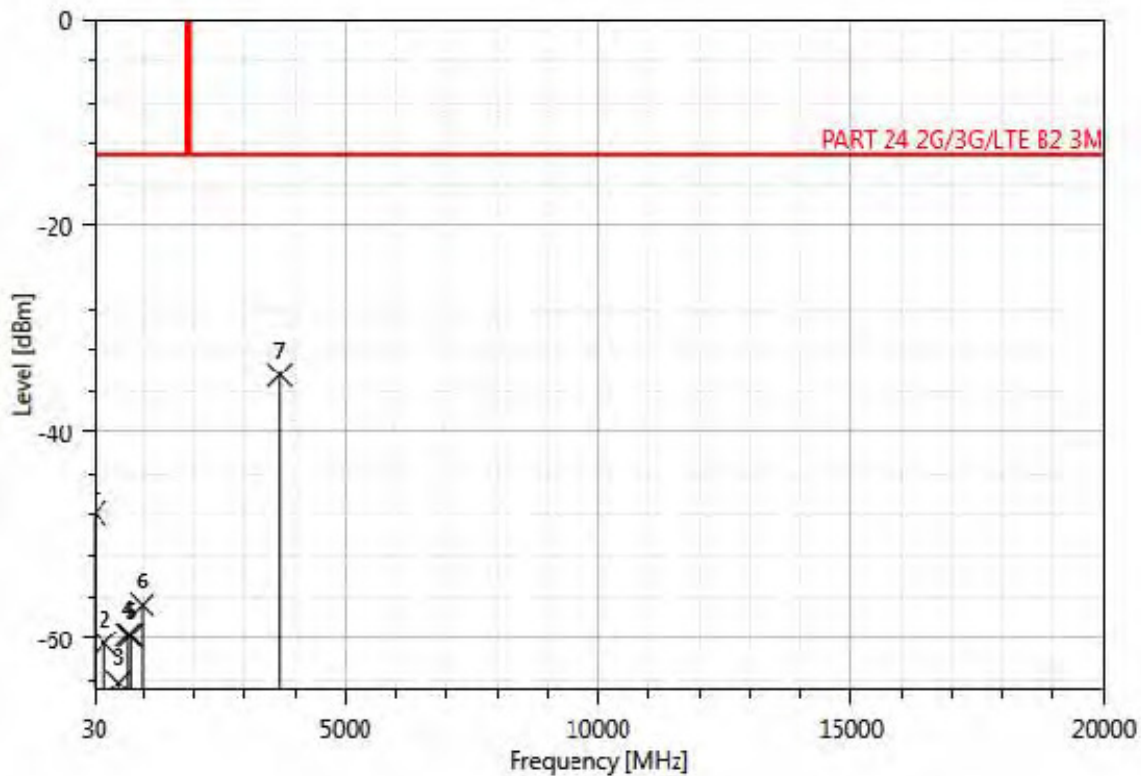
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Radiated Spurious Emission Measurement Result: LTE-Band 2 (The Worst Case)

Operation Mode :	LTE B2	Test Date :	12/13/2016
Fundamental Frequency :	1852.5 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	EIRP Level dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm	Margin dB
32.91	S	Peak	-47.79	-34.88	-11.94	-0.97	-13.00	-34.79
235.64	S	Peak	-60.47	-64.10	5.36	-1.73	-13.00	-47.47
515.00	S	Peak	-64.27	-67.84	5.92	-2.36	-13.00	-51.27
697.36	S	Peak	-59.64	-61.94	5.23	-2.93	-13.00	-46.64
752.65	S	Peak	-59.70	-61.98	5.34	-3.06	-13.00	-46.70
978.66	S	Peak	-56.78	-59.36	5.77	-3.19	-13.00	-43.78
3705.00	H	Peak	-34.45	-40.31	12.44	-6.58	-13.00	-21.45

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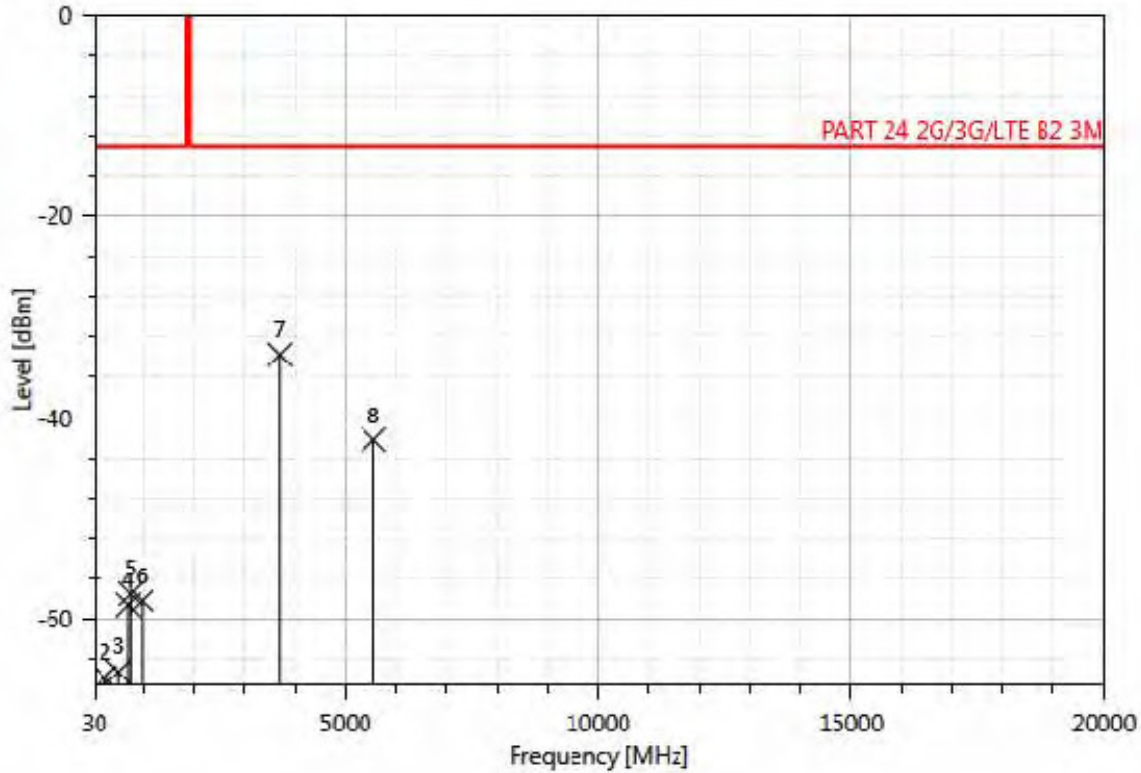
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Operation Mode :	LTE B2	Test Date :	12/13/2016
Fundamental Frequency :	1852.5 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	EIRP Level dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm	Margin dB
30.00	S	Peak	-57.87	-44.29	-12.63	-0.96	-13.00	-44.87
240.49	S	Peak	-65.81	-69.51	5.44	-1.74	-13.00	-52.81
513.06	S	Peak	-65.26	-68.85	5.94	-2.35	-13.00	-52.26
702.21	S	Peak	-58.61	-60.83	5.24	-3.02	-13.00	-45.61
752.65	S	Peak	-57.52	-59.80	5.34	-3.06	-13.00	-44.52
972.84	S	Peak	-58.18	-60.66	5.65	-3.17	-13.00	-45.18
3705.00	H	Peak	-33.74	-39.60	12.44	-6.58	-13.00	-20.74
5557.50	H	Peak	-42.21	-46.85	12.90	-8.26	-13.00	-29.21

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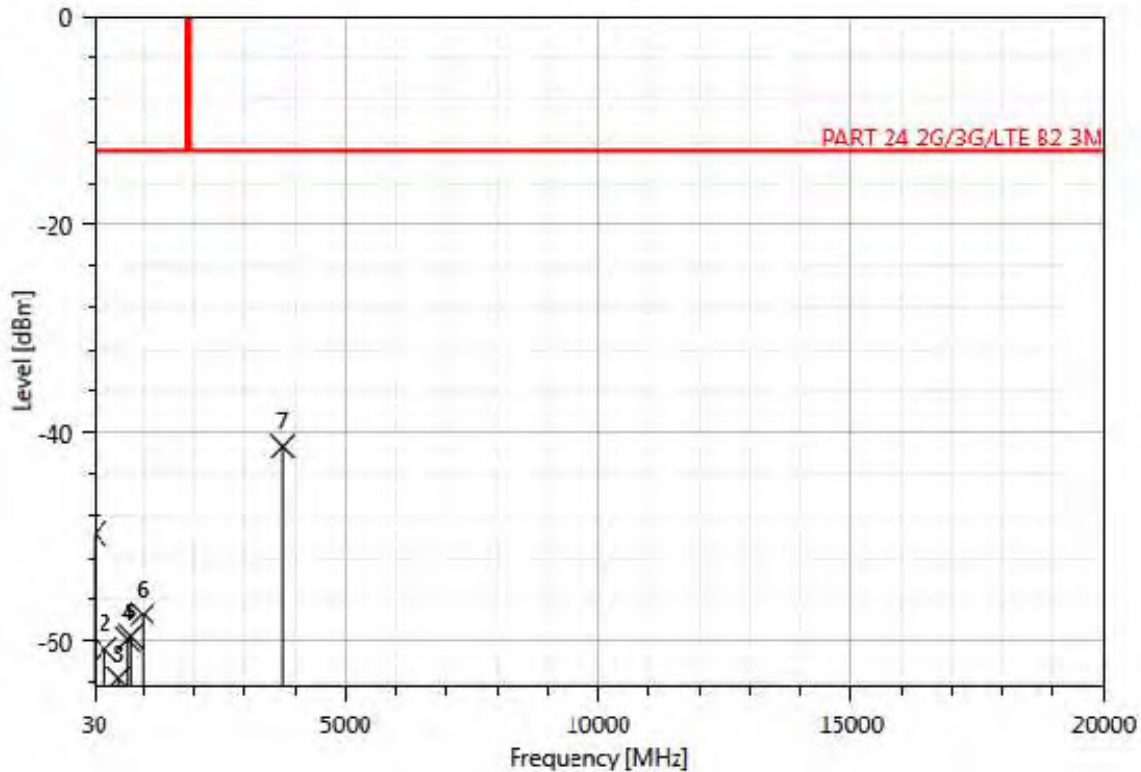
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Operation Mode : LTE B2 Test Date : 12/13/2016
 Fundamental Frequency : 1880.0 MHz Temp. / Humi. : 23 deg_C / 62 RH
 Operation Band : Tx CH MID Test Engineer : Mike
 EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL

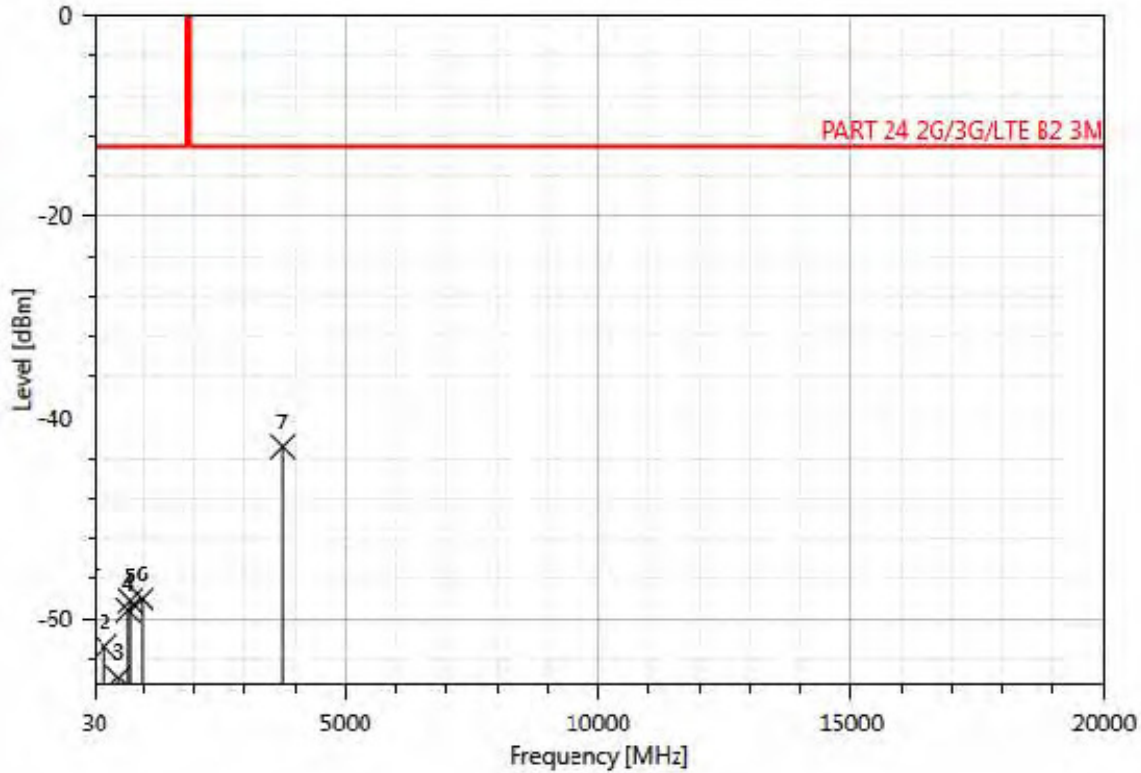


Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	EIRP Level dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm	Margin dB
32.91	S	Peak	-49.71	-36.80	-11.94	-0.97	-13.00	-36.71
241.46	S	Peak	-60.80	-64.52	5.46	-1.74	-13.00	-47.80
513.06	S	Peak	-63.68	-67.26	5.94	-2.35	-13.00	-50.68
691.54	S	Peak	-59.87	-62.29	5.24	-2.83	-13.00	-46.87
752.65	S	Peak	-59.62	-61.90	5.34	-3.06	-13.00	-46.62
987.39	S	Peak	-57.45	-60.17	5.95	-3.23	-13.00	-44.45
3760.00	H	Peak	-41.29	-47.15	12.45	-6.60	-13.00	-28.29

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Operation Mode : LTE B2 Test Date : 12/13/2016
 Fundamental Frequency : 1880.0 MHz Temp. / Humi. : 23 deg_C / 62 RH
 Operation Band : Tx CH MID Test Engineer : Mike
 EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL



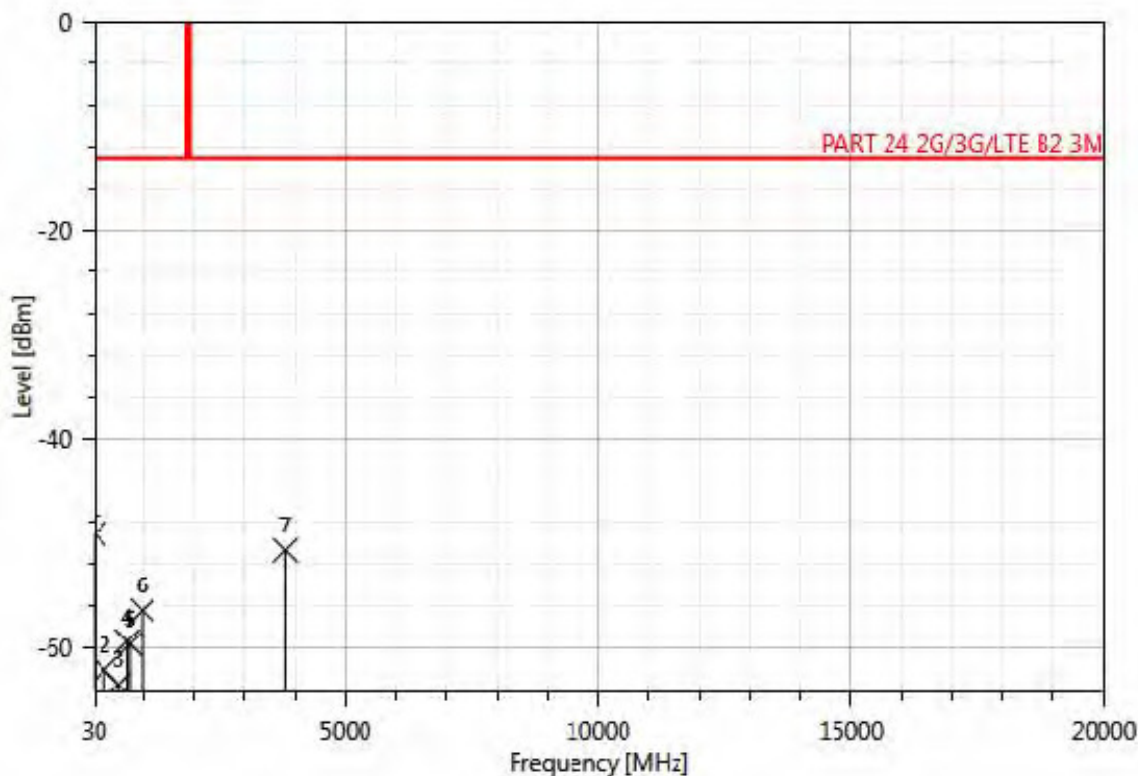
Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	EIRP Level dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm	Margin dB
30.00	S	Peak	-56.87	-43.28	-12.63	-0.96	-13.00	-43.87
238.55	S	Peak	-62.81	-66.48	5.41	-1.74	-13.00	-49.81
513.06	S	Peak	-65.84	-69.42	5.94	-2.35	-13.00	-52.84
697.36	S	Peak	-59.13	-61.43	5.23	-2.93	-13.00	-46.13
741.01	S	Peak	-58.23	-60.41	5.31	-3.13	-13.00	-45.23
973.81	S	Peak	-58.05	-60.55	5.67	-3.18	-13.00	-45.05
3760.00	H	Peak	-42.90	-48.76	12.45	-6.60	-13.00	-29.90

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Operation Mode :	LTE B2	Test Date :	12/13/2016
Fundamental Frequency :	1905.0 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



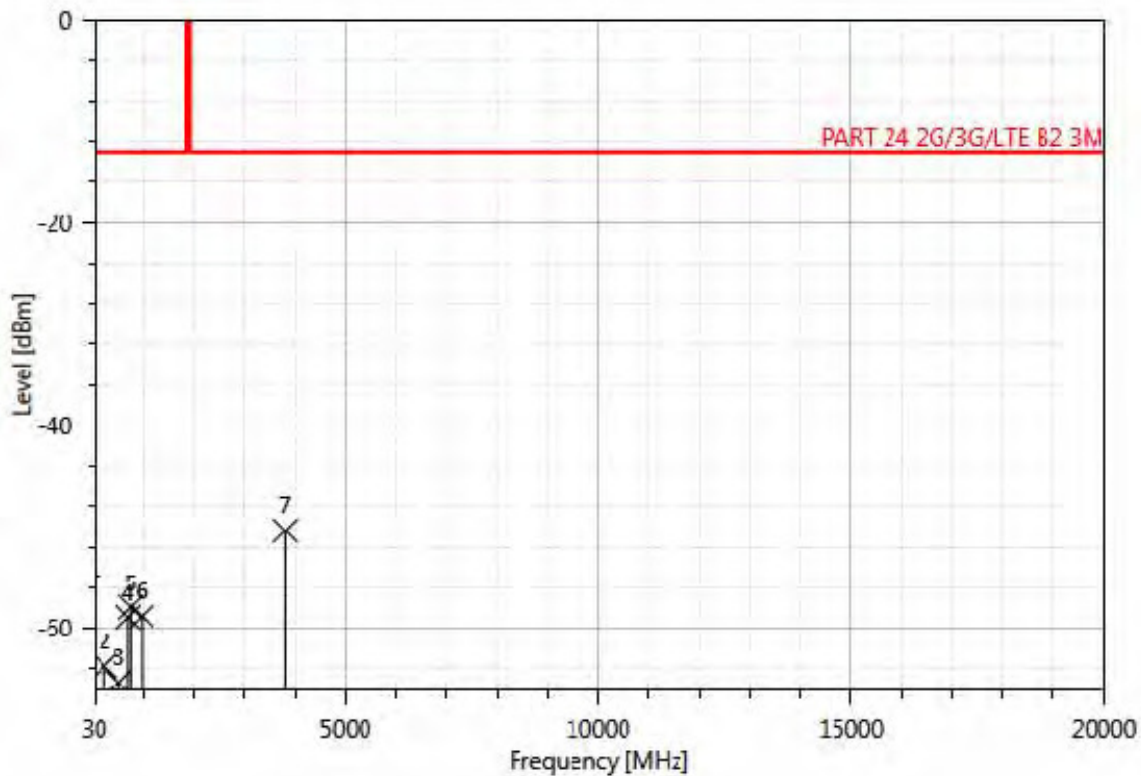
Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	EIRP Level dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm	Margin dB
31.94	S	Peak	-49.14	-36.01	-12.16	-0.96	-13.00	-36.14
235.64	S	Peak	-62.15	-65.78	5.36	-1.73	-13.00	-49.15
513.06	S	Peak	-63.59	-67.18	5.94	-2.35	-13.00	-50.59
684.75	S	Peak	-59.43	-61.98	5.25	-2.70	-13.00	-46.43
735.19	S	Peak	-59.73	-61.90	5.30	-3.13	-13.00	-46.73
978.66	S	Peak	-56.50	-59.08	5.77	-3.19	-13.00	-43.50
3810.00	H	Peak	-50.73	-56.57	12.46	-6.62	-13.00	-37.73

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Operation Mode :	LTE B2	Test Date :	12/13/2016
Fundamental Frequency :	1905.0 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	EIRP Level dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm	Margin dB
30.00	S	Peak	-56.69	-43.10	-12.63	-0.96	-13.00	-43.69
235.64	S	Peak	-63.71	-67.34	5.36	-1.73	-13.00	-50.71
513.06	S	Peak	-65.38	-68.96	5.94	-2.35	-13.00	-52.38
697.36	S	Peak	-58.93	-61.23	5.23	-2.93	-13.00	-45.93
752.65	S	Peak	-57.95	-60.23	5.34	-3.06	-13.00	-44.95
972.84	S	Peak	-58.82	-61.31	5.65	-3.17	-13.00	-45.82
3810.00	H	Peak	-50.39	-56.23	12.46	-6.62	-13.00	-37.39

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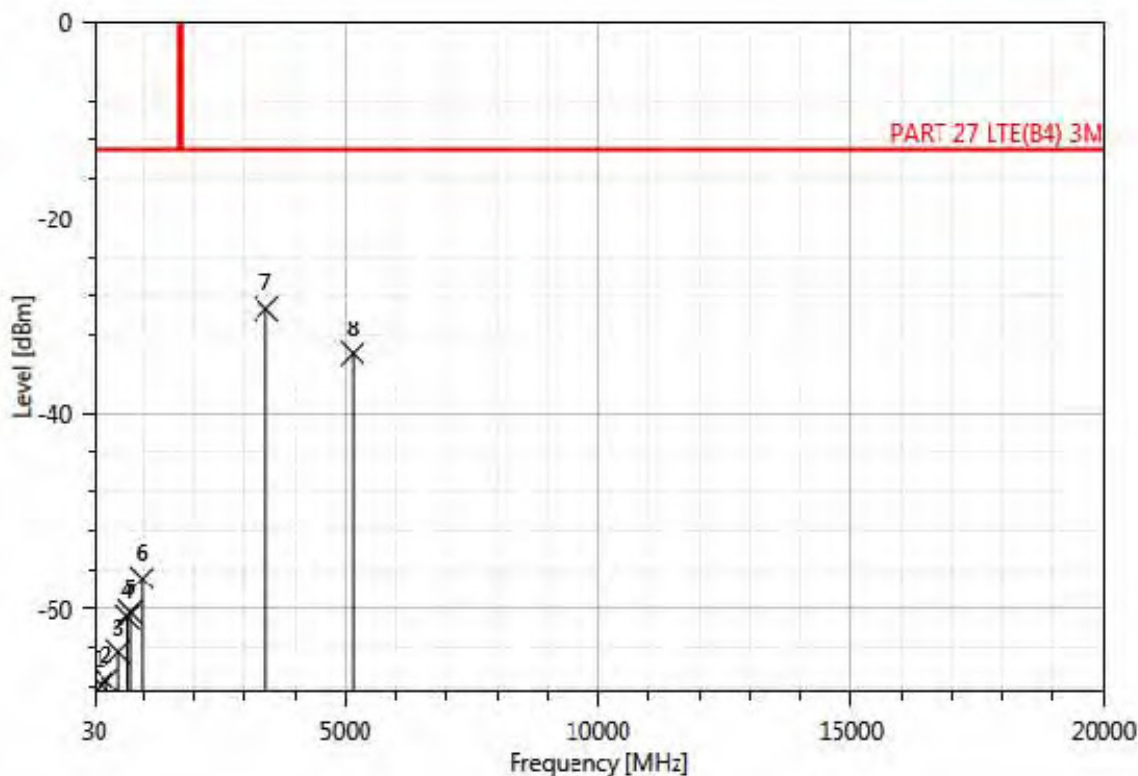
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Radiated Spurious Emission Measurement Result: LTE-Band 4 (The Worst Case)

Operation Mode :	LTE B4	Test Date :	12/13/2016
Fundamental Frequency :	1715 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



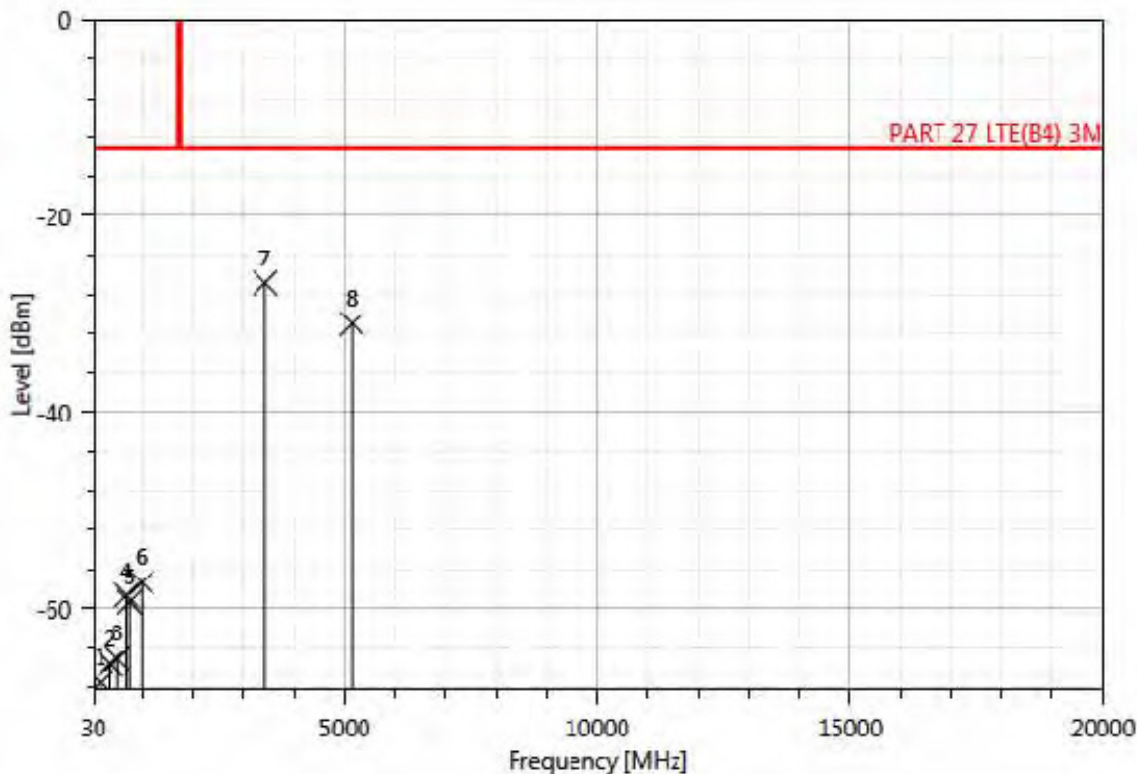
Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	EIRP Level dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm	Margin dB
154.16	S	Peak	-67.80	-66.60	0.25	-1.45	-13.00	-54.80
270.56	S	Peak	-67.39	-71.21	5.65	-1.83	-13.00	-54.39
510.15	S	Peak	-64.51	-68.12	5.95	-2.34	-13.00	-51.51
684.75	S	Peak	-60.87	-63.41	5.25	-2.70	-13.00	-47.87
741.01	S	Peak	-60.35	-62.53	5.31	-3.13	-13.00	-47.35
972.84	S	Peak	-56.94	-59.42	5.65	-3.17	-13.00	-43.94
3430.00	H	Peak	-29.31	-35.37	12.28	-6.23	-13.00	-16.31
5145.00	H	Peak	-33.88	-38.70	12.76	-7.94	-13.00	-20.88

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Operation Mode : LTE B4 Test Date : 12/13/2016
 Fundamental Frequency : 1715 MHz Temp. / Humi. : 23 deg_C / 62 RH
 Operation Band : Tx CH LOW Test Engineer : Mike
 EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL



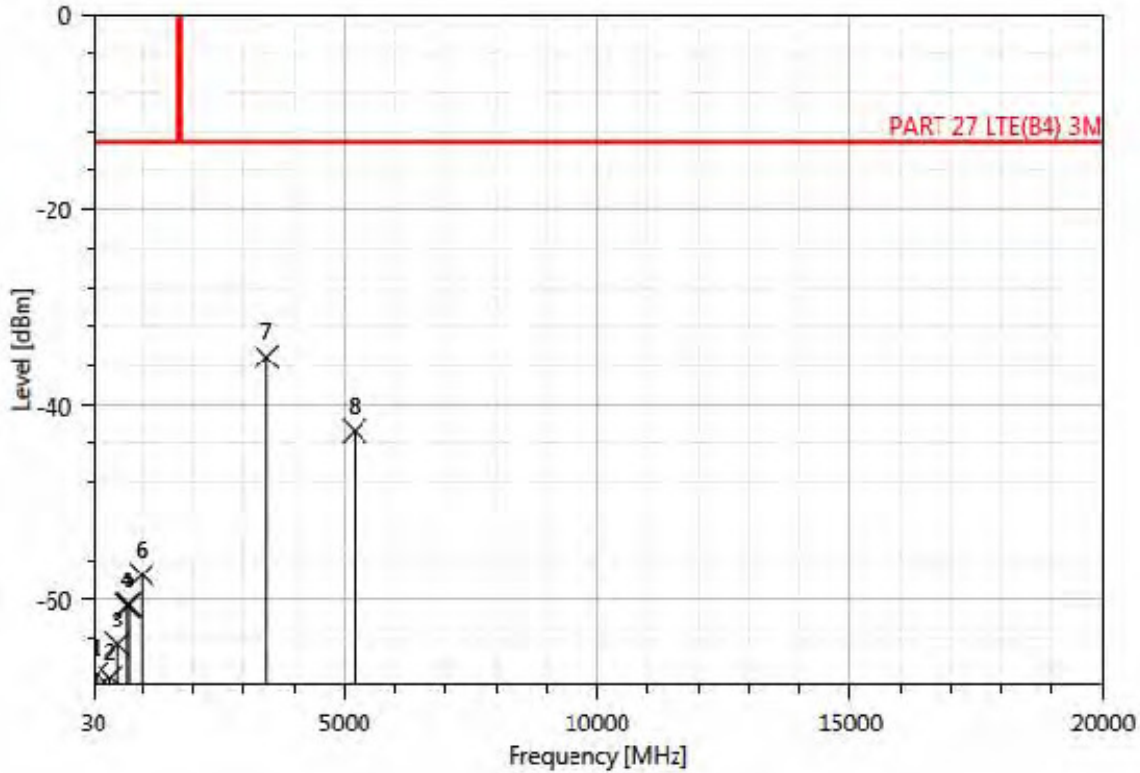
Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	EIRP Level dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm	Margin dB
180.35	S	Peak	-67.50	-69.04	3.10	-1.56	-13.00	-54.50
366.59	S	Peak	-65.56	-69.38	6.00	-2.17	-13.00	-52.56
513.06	S	Peak	-65.09	-68.68	5.94	-2.35	-13.00	-52.09
684.75	S	Peak	-58.61	-61.16	5.25	-2.70	-13.00	-45.61
745.86	S	Peak	-59.32	-61.54	5.32	-3.10	-13.00	-46.32
987.39	S	Peak	-57.33	-60.05	5.95	-3.23	-13.00	-44.33
3430.00	H	Peak	-26.83	-32.88	12.28	-6.23	-13.00	-13.83
5145.00	H	Peak	-30.97	-35.79	12.76	-7.94	-13.00	-17.97

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Operation Mode : LTE B4 Test Date : 12/13/2016
 Fundamental Frequency : 1732.5 MHz Temp. / Humi. : 23 deg_C / 62 RH
 Operation Band : Tx CH MID Test Engineer : Mike
 EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	EIRP Level dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm	Margin dB
95.96	S	Peak	-67.64	-67.40	0.99	-1.23	-13.00	-54.64
366.59	S	Peak	-68.00	-71.82	6.00	-2.17	-13.00	-55.00
515.97	S	Peak	-64.61	-68.17	5.92	-2.36	-13.00	-51.61
697.36	S	Peak	-60.58	-62.88	5.23	-2.93	-13.00	-47.58
741.01	S	Peak	-60.52	-62.70	5.31	-3.13	-13.00	-47.52
988.36	S	Peak	-57.47	-60.21	5.97	-3.23	-13.00	-44.47
3465.00	H	Peak	-35.12	-41.21	12.34	-6.25	-13.00	-22.12
5197.50	H	Peak	-42.75	-47.57	12.78	-7.96	-13.00	-29.75

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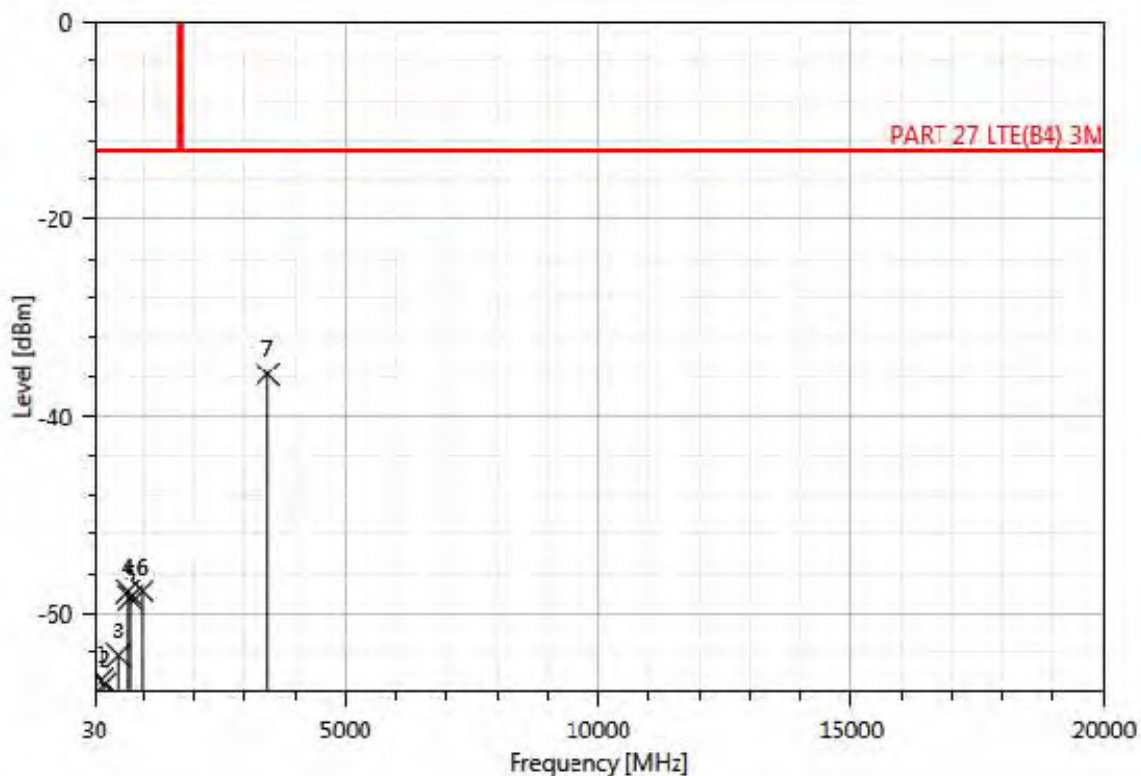
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Operation Mode : LTE B4 Test Date : 12/13/2016
 Fundamental Frequency : 1732.5 MHz Temp. / Humi. : 23 deg_C / 62 RH
 Operation Band : Tx CH MID Test Engineer : Mike
 EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL



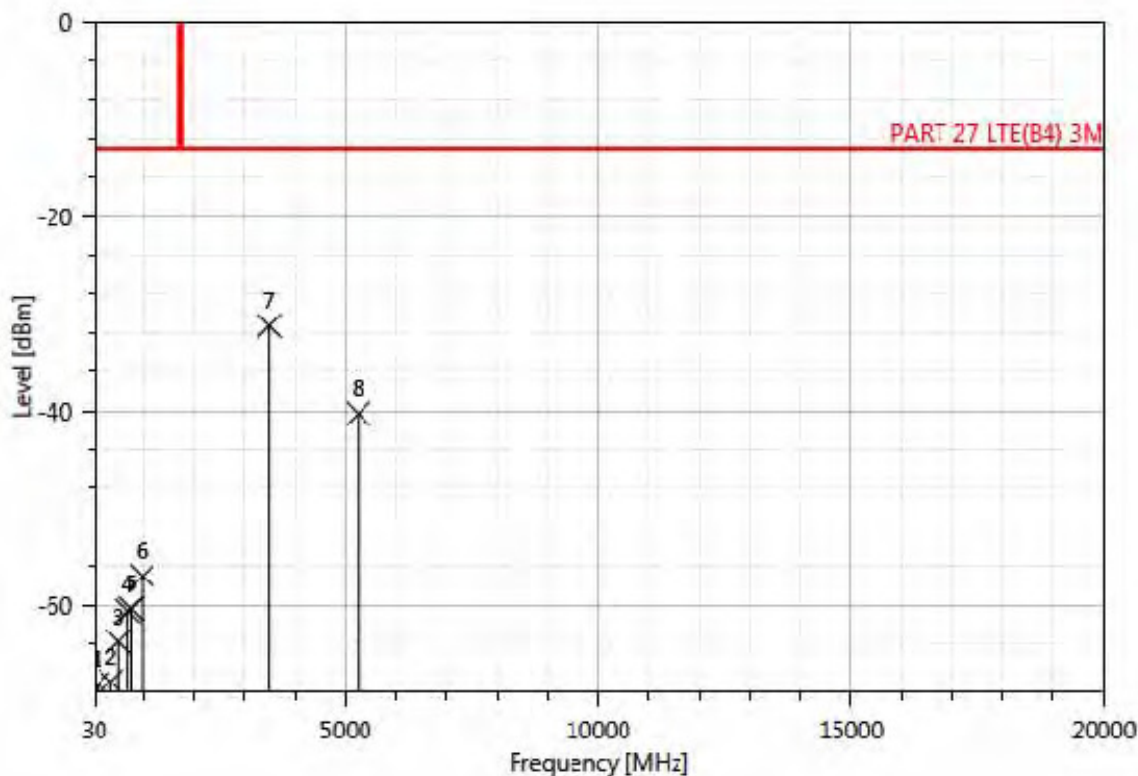
Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	EIRP Level dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm	Margin dB
181.32	S	Peak	-66.71	-68.41	3.26	-1.57	-13.00	-53.71
235.64	S	Peak	-67.21	-70.83	5.36	-1.73	-13.00	-54.21
515.97	S	Peak	-64.27	-67.82	5.92	-2.36	-13.00	-51.27
697.36	S	Peak	-57.84	-60.15	5.23	-2.93	-13.00	-44.84
741.01	S	Peak	-58.46	-60.64	5.31	-3.13	-13.00	-45.46
975.75	S	Peak	-57.80	-60.33	5.71	-3.18	-13.00	-44.80
3465.00	H	Peak	-35.76	-41.85	12.34	-6.25	-13.00	-22.76

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Operation Mode : LTE B4 Test Date : 12/13/2016
 Fundamental Frequency : 1750 MHz Temp. / Humi. : 23 deg_C / 62 RH
 Operation Band : Tx CH HIGH Test Engineer : Mike
 EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	EIRP Level dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm	Margin dB
93.05	S	Peak	-68.13	-68.25	1.34	-1.22	-13.00	-55.13
359.80	S	Peak	-67.84	-71.72	6.00	-2.12	-13.00	-54.84
513.06	S	Peak	-63.76	-67.34	5.94	-2.35	-13.00	-50.76
689.60	S	Peak	-60.58	-63.03	5.24	-2.79	-13.00	-47.58
759.44	S	Peak	-60.36	-62.70	5.36	-3.02	-13.00	-47.36
978.66	S	Peak	-56.98	-59.56	5.77	-3.19	-13.00	-43.98
3500.00	H	Peak	-31.27	-37.24	12.40	-6.43	-13.00	-18.27
5250.00	H	Peak	-40.28	-45.06	12.80	-8.02	-13.00	-27.28

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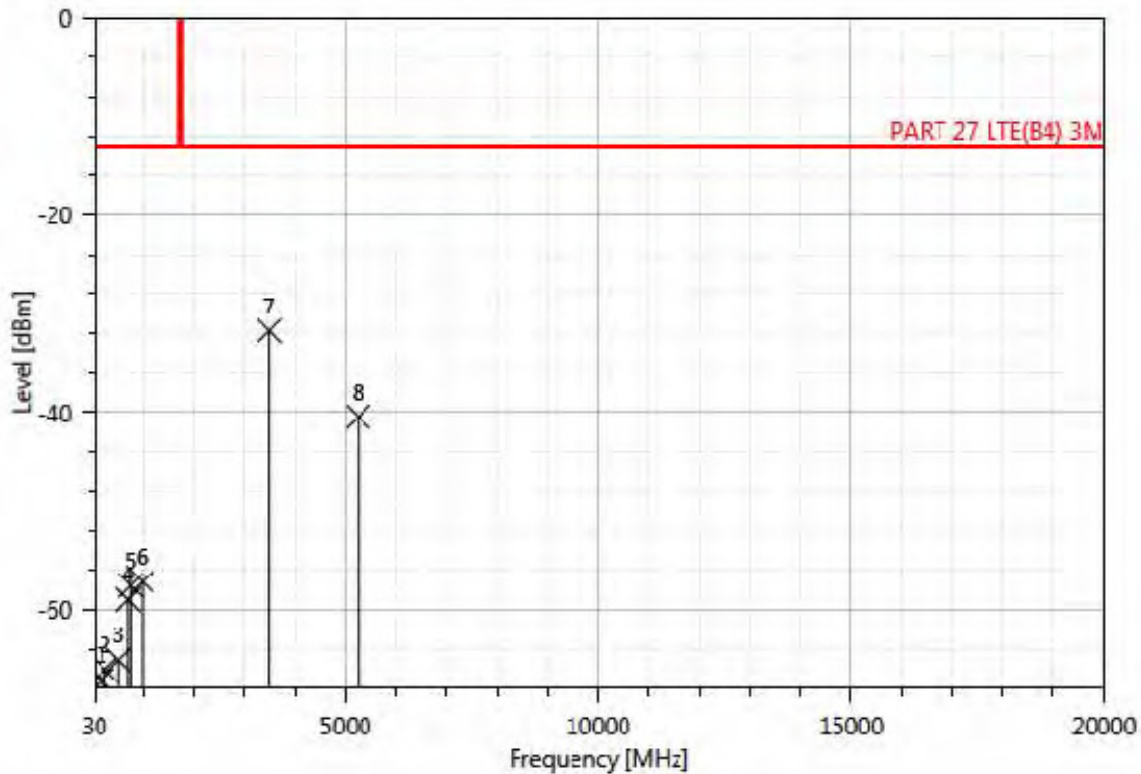
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Operation Mode : LTE B4 Test Date : 12/13/2016
 Fundamental Frequency : 1750 MHz Temp. / Humi. : 23 deg_C / 62 RH
 Operation Band : Tx CH HIGH Test Engineer : Mike
 EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	EIRP Level dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm	Margin dB
180.35	S	Peak	-67.15	-68.69	3.10	-1.56	-13.00	-54.15
243.40	S	Peak	-66.06	-69.80	5.49	-1.75	-13.00	-53.06
512.09	S	Peak	-65.10	-68.69	5.94	-2.35	-13.00	-52.10
697.36	S	Peak	-58.97	-61.27	5.23	-2.93	-13.00	-45.97
752.65	S	Peak	-57.53	-59.81	5.34	-3.06	-13.00	-44.53
980.60	S	Peak	-57.15	-59.77	5.81	-3.20	-13.00	-44.15
3500.00	H	Peak	-31.72	-37.70	12.40	-6.43	-13.00	-18.72
5250.00	H	Peak	-40.43	-45.22	12.80	-8.02	-13.00	-27.43

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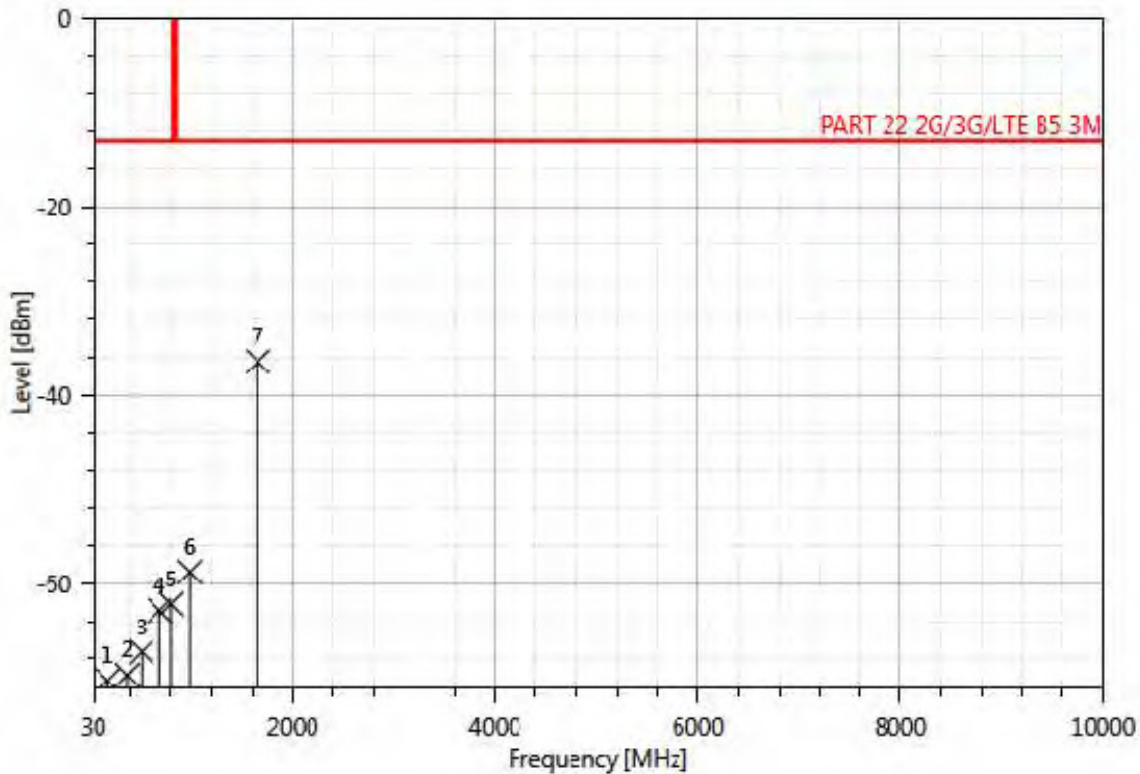
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Radiated Spurious Emission Measurement Result: LTE-Band 5 (The Worst Case)

Operation Mode :	LTE B5	Test Date :	12/13/2016
Fundamental Frequency :	829.0 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL

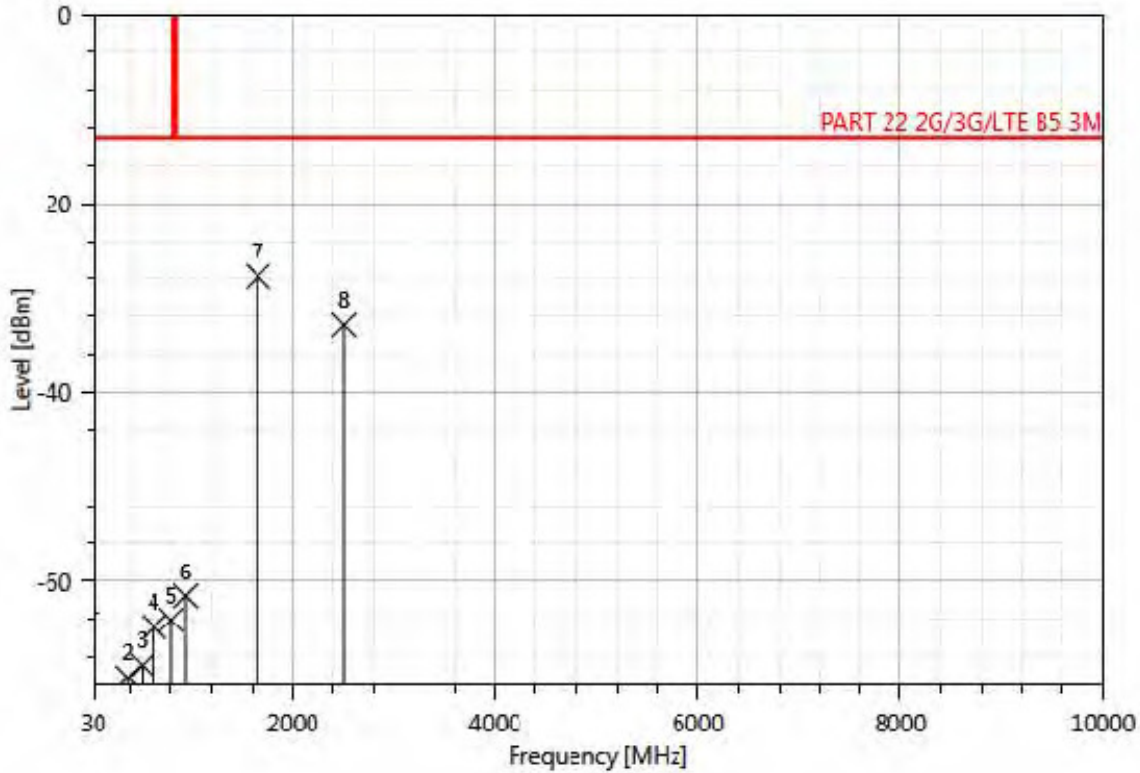


Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	ERP Level dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit @3m dBm	Margin dB
173.56	S	Peak	-70.28	-68.48	-0.26	-1.53	-13.00	-57.28
366.59	S	Peak	-69.69	-71.36	3.85	-2.17	-13.00	-56.69
508.21	S	Peak	-67.24	-68.71	3.81	-2.34	-13.00	-54.24
686.69	S	Peak	-62.84	-63.20	3.10	-2.74	-13.00	-49.84
801.15	S	Peak	-62.16	-62.60	3.34	-2.90	-13.00	-49.16
980.60	S	Peak	-58.75	-59.21	3.66	-3.20	-13.00	-45.75
1657.00	H	Peak	-36.44	-41.47	9.29	-4.25	-13.00	-23.44

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Operation Mode : LTE B5 Test Date : 12/13/2016
 Fundamental Frequency : 829.0 MHz Temp. / Humi. : 21 deg_C / 62 RH
 Operation Band : Tx CH LOW Test Engineer : Mike
 EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	ERP Level dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit @3m dBm	Margin dB
30.00	S	Peak	-65.25	-49.51	-14.78	-0.96	-13.00	-52.25
371.44	S	Peak	-70.16	-71.80	3.84	-2.21	-13.00	-57.16
513.06	S	Peak	-68.85	-70.28	3.79	-2.35	-13.00	-55.85
629.46	S	Peak	-64.82	-65.53	3.18	-2.47	-13.00	-51.82
801.15	S	Peak	-64.10	-64.54	3.34	-2.90	-13.00	-51.10
939.86	S	Peak	-61.56	-61.43	3.08	-3.21	-13.00	-48.56
1657.00	H	Peak	-27.72	-32.76	9.29	-4.25	-13.00	-14.72
2503.00	H	Peak	-32.89	-38.54	10.90	-5.26	-13.00	-19.89

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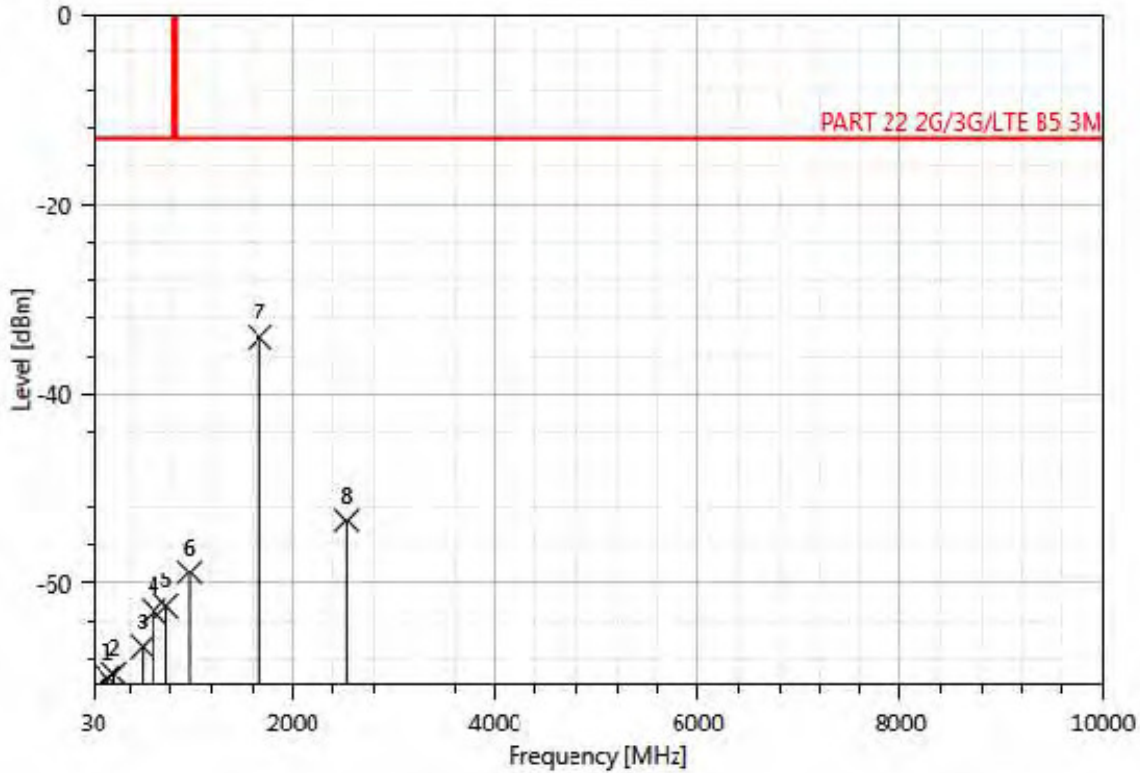
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Operation Mode :	LTE B5	Test Date :	12/13/2016
Fundamental Frequency :	836.5 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	ERP Level dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit @3m dBm	Margin dB
173.56	S	Peak	-69.93	-68.13	-0.26	-1.53	-13.00	-56.93
236.61	S	Peak	-69.56	-71.05	3.23	-1.73	-13.00	-56.56
515.97	S	Peak	-66.73	-68.13	3.77	-2.36	-13.00	-53.73
628.49	S	Peak	-62.90	-63.61	3.18	-2.47	-13.00	-49.90
750.71	S	Peak	-62.37	-62.48	3.18	-3.07	-13.00	-49.37
977.69	S	Peak	-58.85	-59.26	3.60	-3.19	-13.00	-45.85
1675.00	H	Peak	-34.04	-39.11	9.35	-4.29	-13.00	-21.04
2530.00	H	Peak	-53.37	-59.01	10.94	-5.30	-13.00	-40.37

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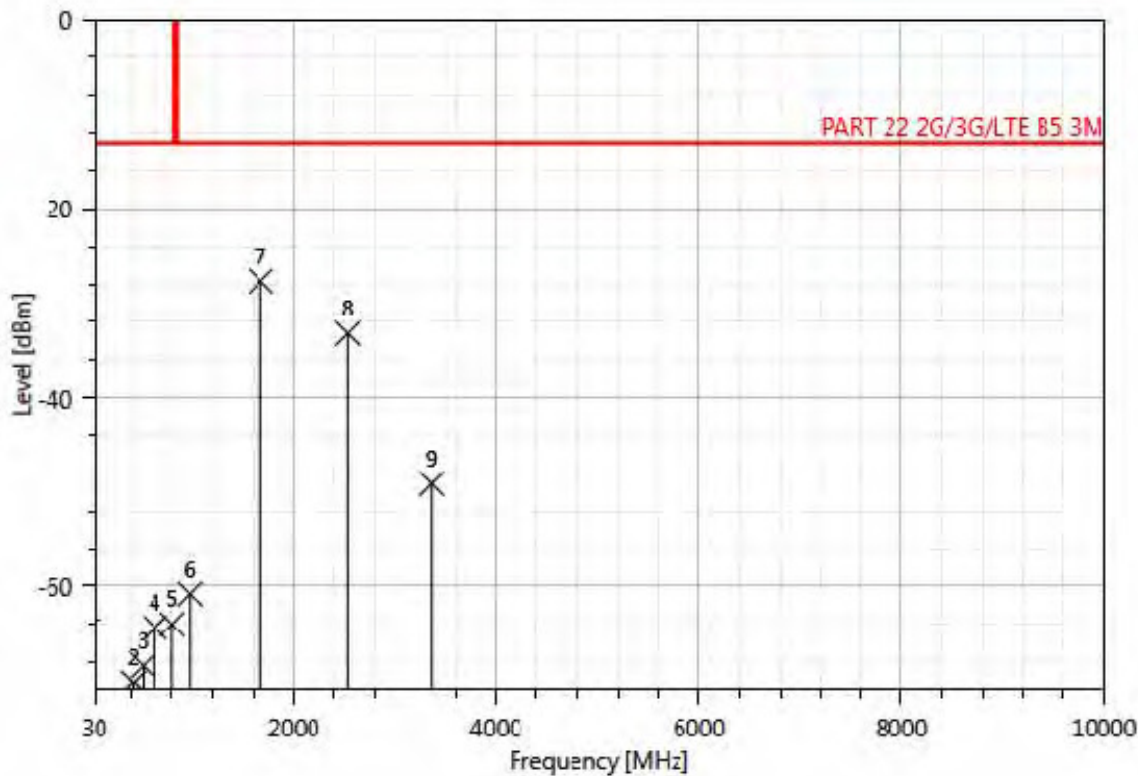
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Operation Mode :	LTE B5	Test Date :	12/13/2016
Fundamental Frequency :	836.5 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



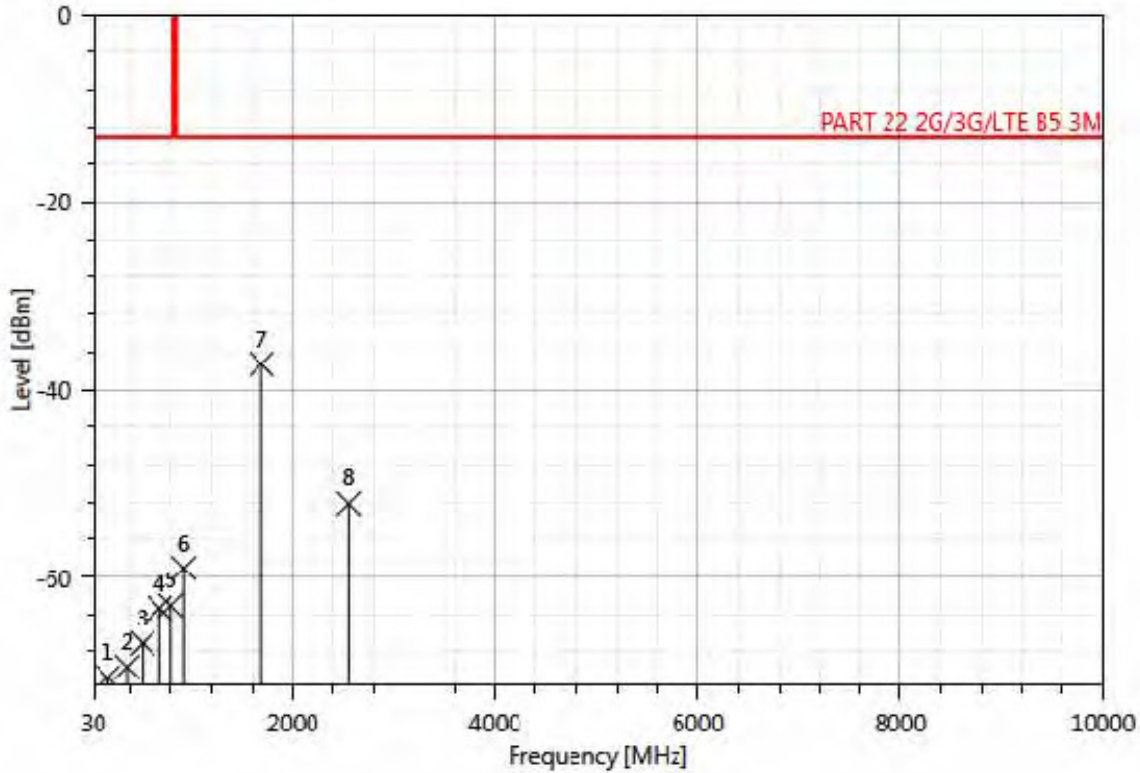
Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	ERP Level dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit @3m dBm	Margin dB
30.00	S	Peak	-65.53	-49.79	-14.78	-0.96	-13.00	-52.53
416.06	S	Peak	-70.13	-71.53	3.76	-2.36	-13.00	-57.13
513.06	S	Peak	-68.31	-69.74	3.79	-2.35	-13.00	-55.31
629.46	S	Peak	-64.34	-65.05	3.18	-2.47	-13.00	-51.34
798.24	S	Peak	-63.98	-64.41	3.34	-2.90	-13.00	-50.98
972.84	S	Peak	-60.81	-61.15	3.50	-3.17	-13.00	-47.81
1675.00	H	Peak	-27.71	-32.77	9.35	-4.29	-13.00	-14.71
2530.00	H	Peak	-33.19	-38.84	10.94	-5.30	-13.00	-20.19
3367.00	H	Peak	-49.10	-54.99	12.17	-6.28	-13.00	-36.10

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Operation Mode :	LTE B5	Test Date :	12/13/2016
Fundamental Frequency :	844.0 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



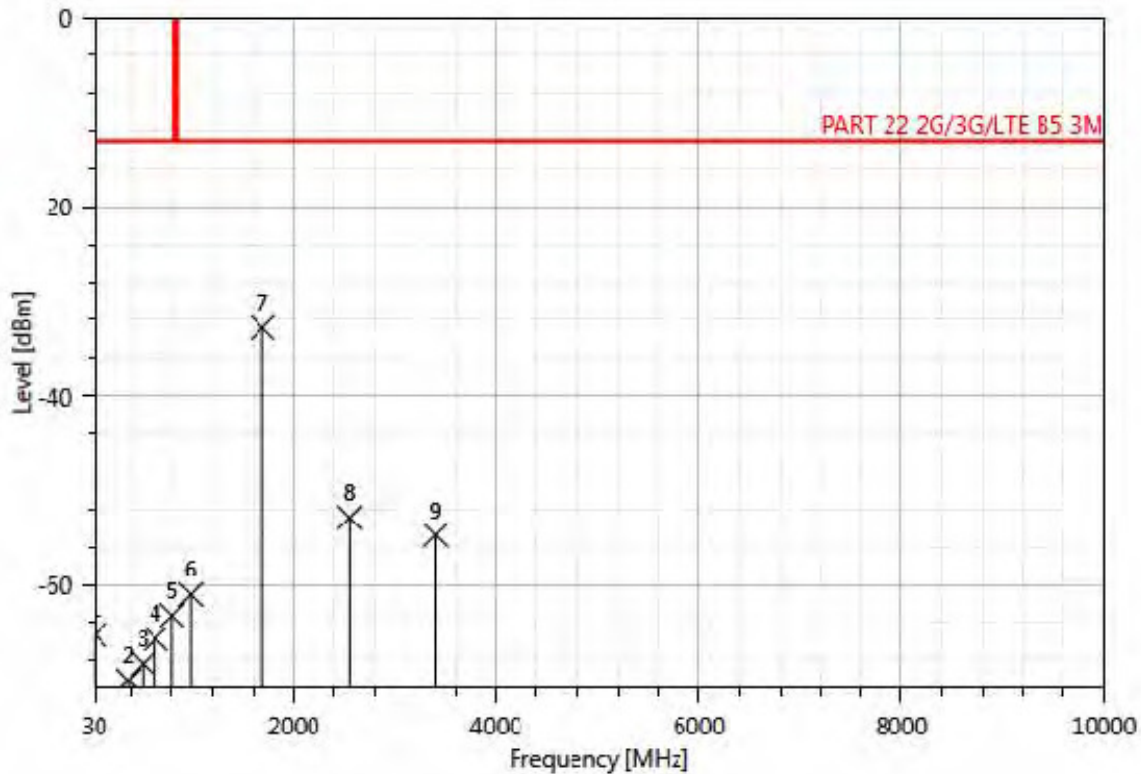
Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	ERP Level dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit @3m dBm	Margin dB
175.50	S	Peak	-70.72	-69.26	0.09	-1.54	-13.00	-57.72
364.65	S	Peak	-69.61	-71.30	3.85	-2.16	-13.00	-56.61
515.97	S	Peak	-67.09	-68.50	3.77	-2.36	-13.00	-54.09
687.66	S	Peak	-63.33	-63.66	3.10	-2.76	-13.00	-50.33
796.30	S	Peak	-63.05	-63.48	3.33	-2.90	-13.00	-50.05
922.40	S	Peak	-59.06	-58.96	3.16	-3.26	-13.00	-46.06
1693.00	H	Peak	-37.29	-42.40	9.42	-4.30	-13.00	-24.29
2548.00	H	Peak	-52.16	-57.79	10.96	-5.33	-13.00	-39.16

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Operation Mode :	LTE B5	Test Date :	12/13/2016
Fundamental Frequency :	844.0 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	ERP Level dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit @3m dBm	Margin dB
34.85	S	Peak	-65.30	-50.66	-13.67	-0.97	-13.00	-52.30
367.56	S	Peak	-70.11	-71.77	3.85	-2.18	-13.00	-57.11
510.15	S	Peak	-68.31	-69.77	3.80	-2.34	-13.00	-55.31
636.25	S	Peak	-65.70	-66.42	3.17	-2.45	-13.00	-52.70
799.21	S	Peak	-63.24	-63.68	3.34	-2.90	-13.00	-50.24
980.60	S	Peak	-61.03	-61.49	3.66	-3.20	-13.00	-48.03
1693.00	H	Peak	-32.81	-37.93	9.42	-4.30	-13.00	-19.81
2548.00	H	Peak	-52.88	-58.51	10.96	-5.33	-13.00	-39.88
3403.00	H	Peak	-54.73	-60.71	12.24	-6.25	-13.00	-41.73

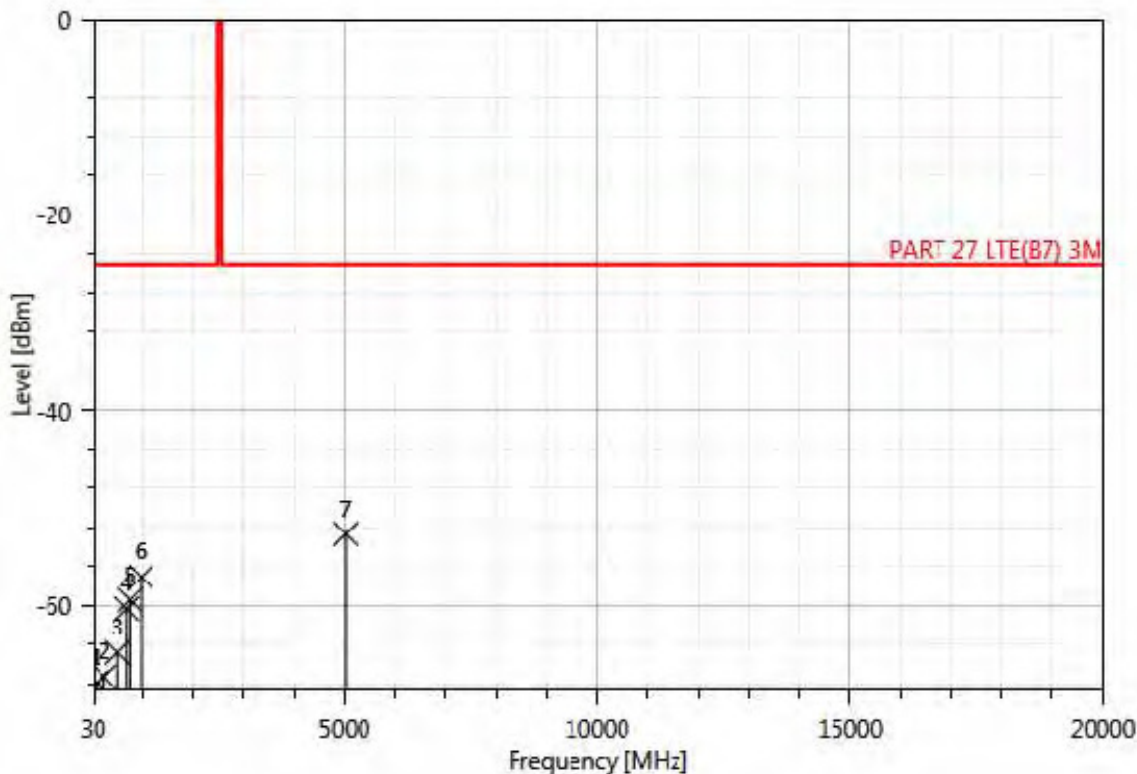
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Radiated Spurious Emission Measurement Result: LTE-Band 7 (The Worst Case)

Operation Mode :	LTE B7	Test Date :	12/13/2016
Fundamental Frequency :	2510 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



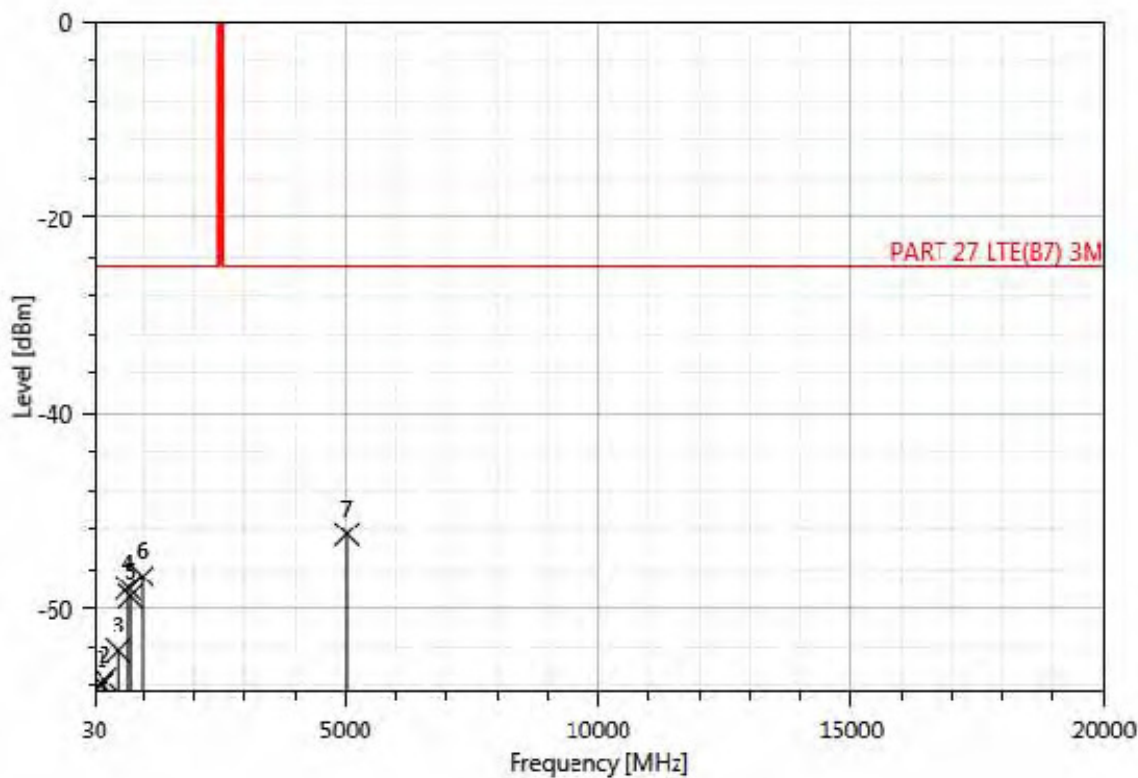
Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	EIRP Level dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm	Margin dB
95.96	S	Peak	-67.92	-67.68	0.99	-1.23	-25.00	-42.92
251.16	S	Peak	-67.34	-71.20	5.62	-1.76	-25.00	-42.34
513.06	S	Peak	-64.84	-68.42	5.94	-2.35	-25.00	-39.84
691.54	S	Peak	-60.37	-62.78	5.24	-2.83	-25.00	-35.37
757.50	S	Peak	-59.45	-61.77	5.36	-3.03	-25.00	-34.45
977.69	S	Peak	-57.10	-59.66	5.75	-3.19	-25.00	-32.10
5020.00	H	Peak	-52.69	-57.59	12.71	-7.81	-25.00	-27.69

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Operation Mode :	LTE B7	Test Date :	12/13/2016
Fundamental Frequency :	2510 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



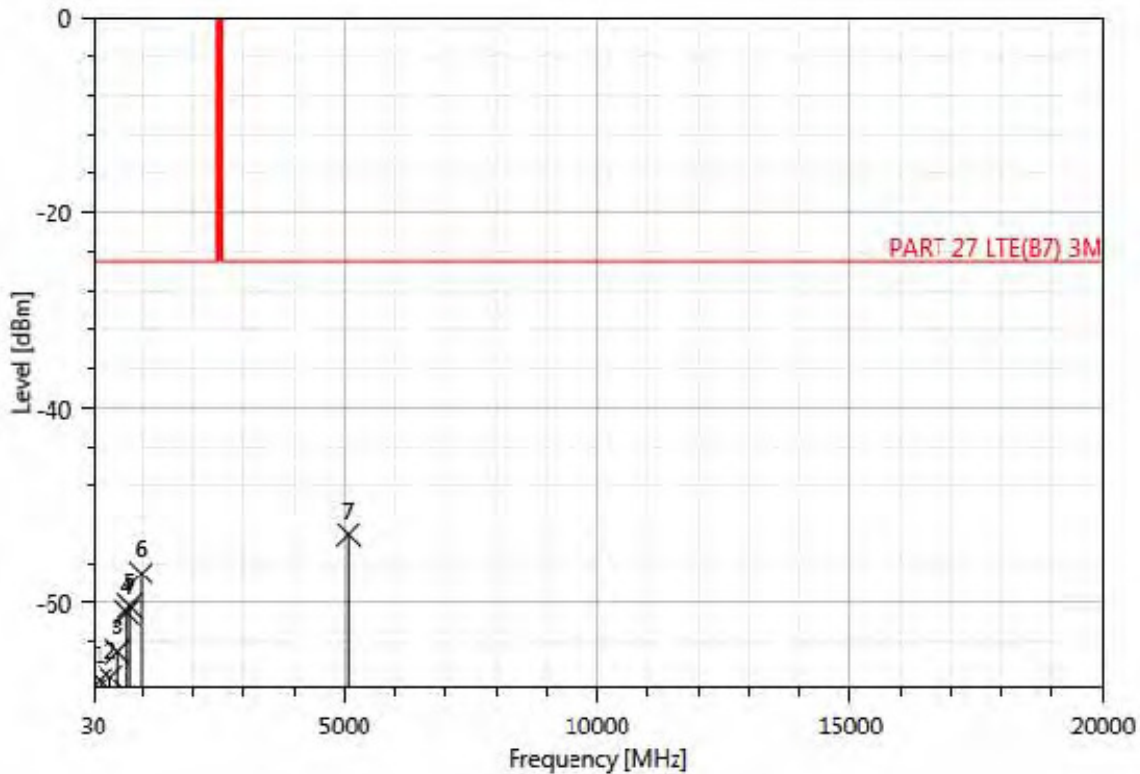
Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	EIRP Level dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm	Margin dB
180.35	S	Peak	-67.77	-69.30	3.10	-1.56	-25.00	-42.77
235.64	S	Peak	-67.26	-70.88	5.36	-1.73	-25.00	-42.26
513.06	S	Peak	-64.34	-67.93	5.94	-2.35	-25.00	-39.34
697.36	S	Peak	-57.88	-60.18	5.23	-2.93	-25.00	-32.88
745.86	S	Peak	-58.75	-60.97	5.32	-3.10	-25.00	-33.75
980.60	S	Peak	-56.72	-59.33	5.81	-3.20	-25.00	-31.72
5020.00	H	Peak	-52.41	-57.31	12.71	-7.81	-25.00	-27.41

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Operation Mode : LTE B7 Test Date : 12/13/2016
 Fundamental Frequency : 2535 MHz Temp. / Humi. : 21 deg_C / 62 RH
 Operation Band : Tx CH MID Test Engineer : Mike
 EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL



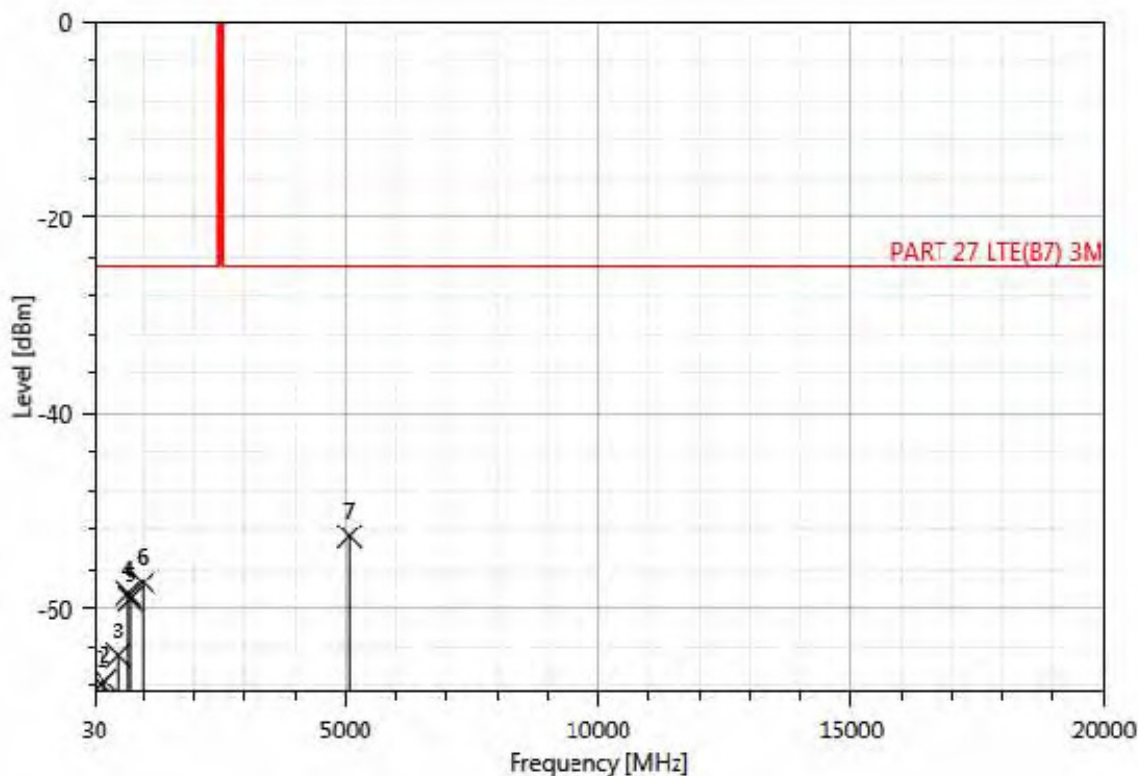
Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	EIRP Level dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm	Margin dB
167.74	S	Peak	-67.99	-67.56	1.08	-1.51	-25.00	-42.99
367.56	S	Peak	-67.64	-71.46	6.00	-2.18	-25.00	-42.64
513.06	S	Peak	-65.07	-68.65	5.94	-2.35	-25.00	-40.07
691.54	S	Peak	-60.96	-63.38	5.24	-2.83	-25.00	-35.96
745.86	S	Peak	-60.30	-62.52	5.32	-3.10	-25.00	-35.30
977.69	S	Peak	-57.02	-59.58	5.75	-3.19	-25.00	-32.02
5070.00	H	Peak	-53.06	-57.93	12.73	-7.86	-25.00	-28.06

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Operation Mode :	LTE B7	Test Date :	12/13/2016
Fundamental Frequency :	2535 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	EIRP Level dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm	Margin dB
175.50	S	Peak	-67.78	-68.48	2.24	-1.54	-25.00	-42.78
235.64	S	Peak	-67.39	-71.01	5.36	-1.73	-25.00	-42.39
513.06	S	Peak	-64.81	-68.40	5.94	-2.35	-25.00	-39.81
697.36	S	Peak	-58.51	-60.81	5.23	-2.93	-25.00	-33.51
741.01	S	Peak	-59.06	-61.24	5.31	-3.13	-25.00	-34.06
987.39	S	Peak	-57.37	-60.09	5.95	-3.23	-25.00	-32.37
5070.00	H	Peak	-52.65	-57.52	12.73	-7.86	-25.00	-27.65

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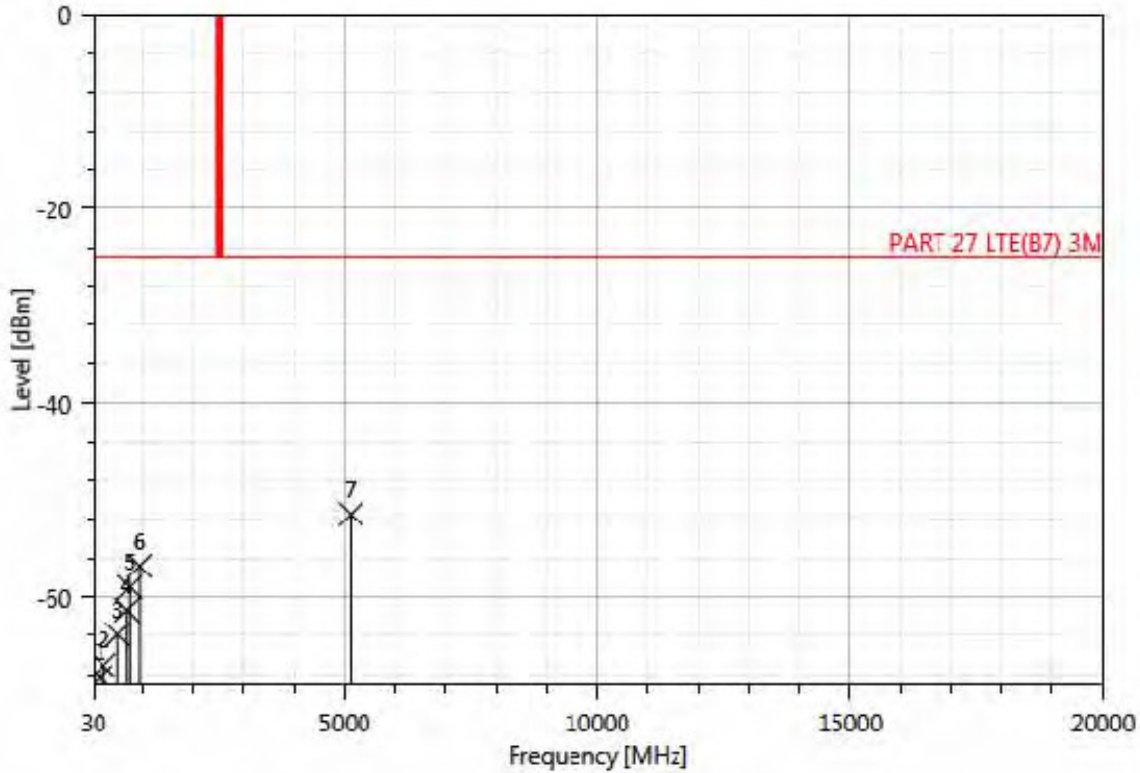
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Operation Mode : LTE B7 Test Date : 12/13/2016
 Fundamental Frequency : 2560 MHz Temp. / Humi. : 21 deg_C / 62 RH
 Operation Band : Tx CH HIGH Test Engineer : Mike
 EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	EIRP Level dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm	Margin dB
172.59	S	Peak	-68.29	-68.47	1.71	-1.53	-25.00	-43.29
235.64	S	Peak	-67.05	-70.68	5.36	-1.73	-25.00	-42.05
515.00	S	Peak	-63.88	-67.45	5.92	-2.36	-25.00	-38.88
691.54	S	Peak	-61.35	-63.76	5.24	-2.83	-25.00	-36.35
752.65	S	Peak	-58.98	-61.26	5.34	-3.06	-25.00	-33.98
938.89	S	Peak	-56.80	-58.82	5.23	-3.21	-25.00	-31.80
5120.00	H	Peak	-51.46	-56.31	12.75	-7.90	-25.00	-26.46

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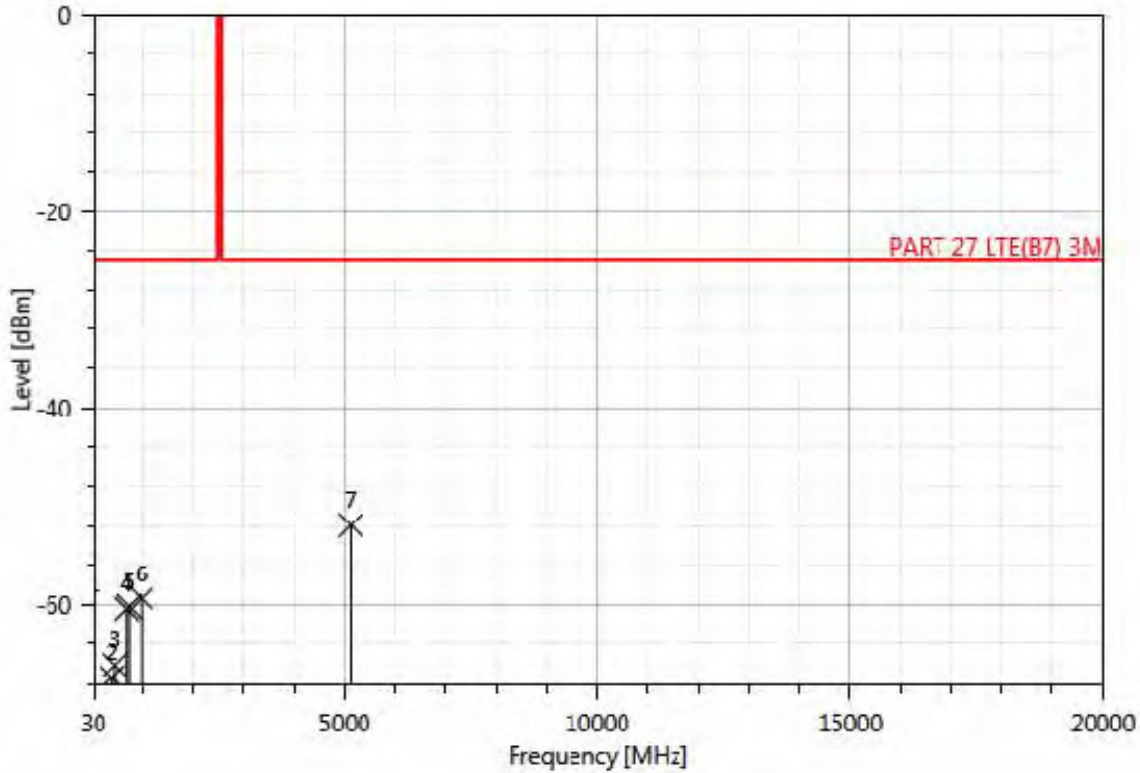
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Operation Mode : LTE B7 Test Date : 12/13/2016
 Fundamental Frequency : 2560 MHz Temp. / Humi. : 21 deg_C / 62 RH
 Operation Band : Tx CH HIGH Test Engineer : Mike
 EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	EIRP Level dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm	Margin dB
30.00	S	Peak	-60.52	-46.93	-12.63	-0.96	-25.00	-35.52
408.30	S	Peak	-67.43	-70.96	5.94	-2.41	-25.00	-42.43
464.56	S	Peak	-66.18	-69.83	5.86	-2.21	-25.00	-41.18
691.54	S	Peak	-60.42	-62.84	5.24	-2.83	-25.00	-35.42
741.01	S	Peak	-60.18	-62.36	5.31	-3.13	-25.00	-35.18
985.45	S	Peak	-59.39	-62.08	5.91	-3.22	-25.00	-34.39
5120.00	H	Peak	-51.92	-56.77	12.75	-7.90	-25.00	-26.92

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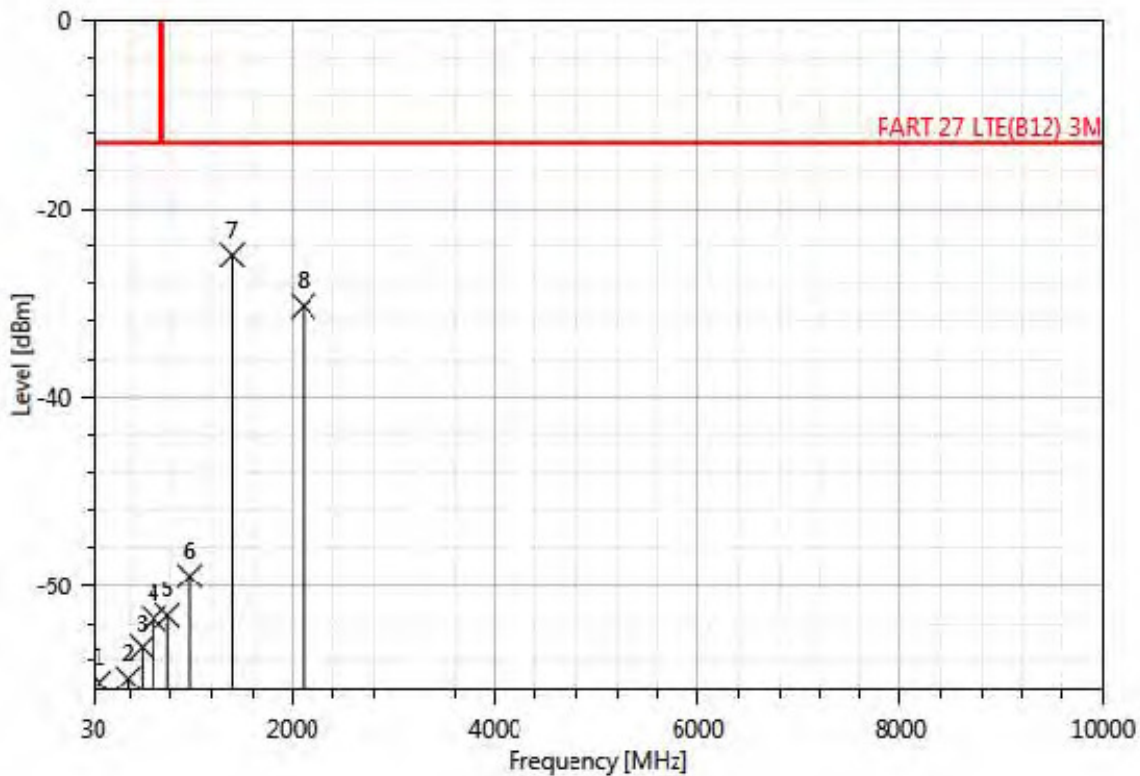
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Radiated Spurious Emission Measurement Result: LTE-Band 12 (The Worst Case)

Operation Mode :	LTE B12	Test Date :	12/13/2016
Fundamental Frequency :	701.5 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Mike
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



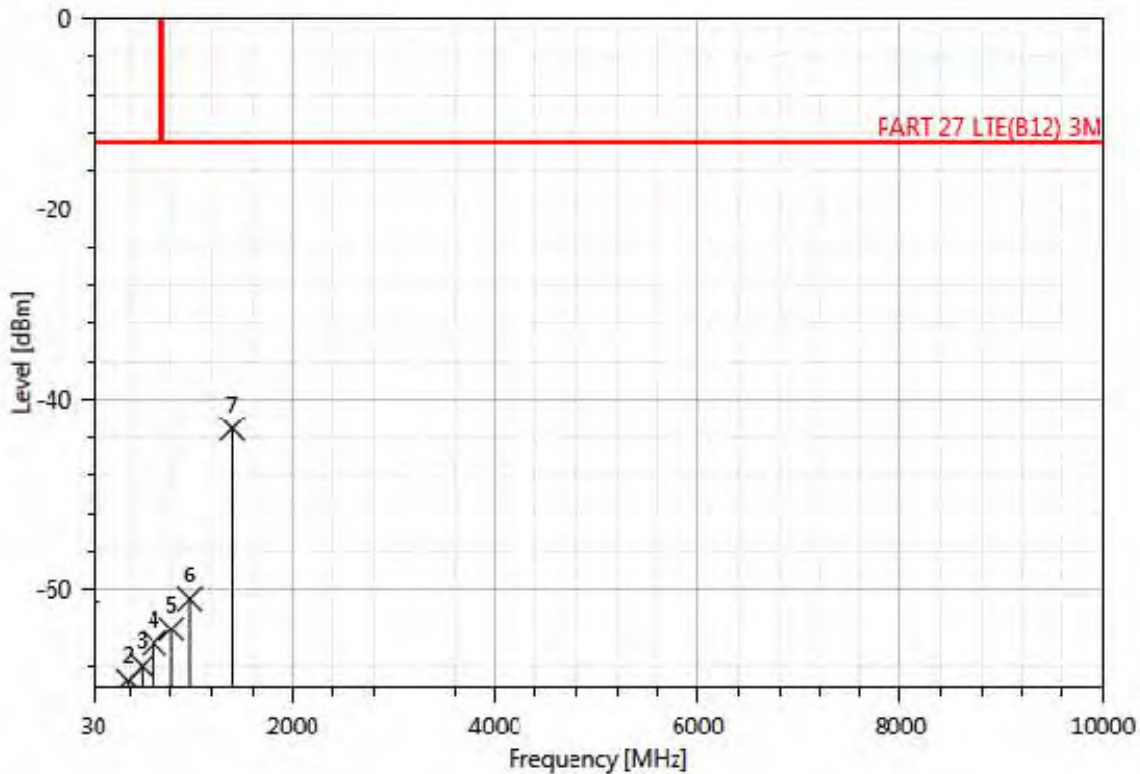
Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	ERP Level dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit @3m dBm	Margin dB
93.05	S	Peak	-70.28	-68.25	-0.81	-1.22	-13.00	-57.28
374.35	S	Peak	-69.85	-71.47	3.84	-2.23	-13.00	-56.85
512.09	S	Peak	-66.59	-68.03	3.79	-2.35	-13.00	-53.59
628.49	S	Peak	-63.46	-64.17	3.18	-2.47	-13.00	-50.46
765.26	S	Peak	-63.11	-63.36	3.23	-2.98	-13.00	-50.11
978.66	S	Peak	-59.00	-59.43	3.62	-3.19	-13.00	-46.00
1403.00	H	Peak	-24.89	-29.28	8.29	-3.90	-13.00	-11.89
2104.50	H	Peak	-30.31	-36.03	10.51	-4.80	-13.00	-17.31

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Operation Mode :	LTE B12	Test Date :	12/13/2016
Fundamental Frequency :	701.5 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Mike
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	ERP Level dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit @3m dBm	Margin dB
30.00	S	Peak	-63.27	-47.54	-14.78	-0.96	-13.00	-50.27
377.26	S	Peak	-69.58	-71.18	3.84	-2.24	-13.00	-56.58
512.09	S	Peak	-68.05	-69.49	3.79	-2.35	-13.00	-55.05
631.40	S	Peak	-65.70	-66.41	3.18	-2.46	-13.00	-52.70
803.09	S	Peak	-64.19	-64.64	3.34	-2.90	-13.00	-51.19
978.66	S	Peak	-61.05	-61.48	3.62	-3.19	-13.00	-48.05
1403.00	H	Peak	-43.15	-47.54	8.29	-3.90	-13.00	-30.15

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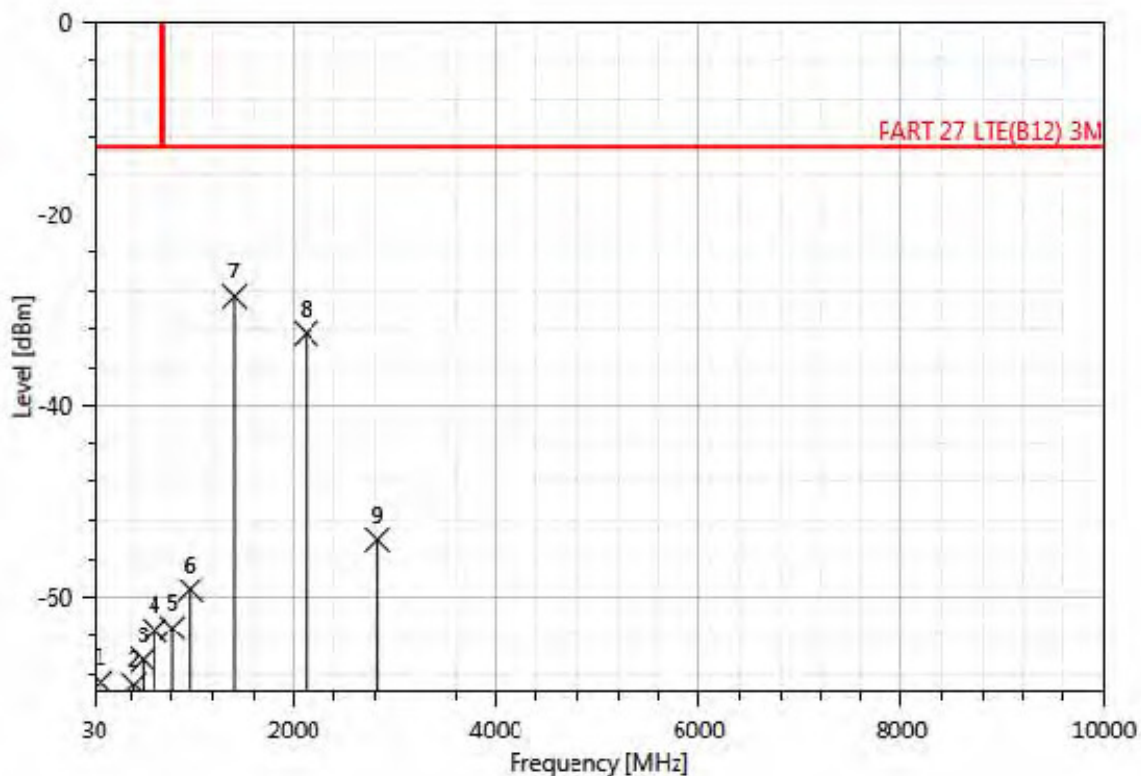
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Operation Mode :	LTE B12	Test Date :	12/13/2016
Fundamental Frequency :	707.5 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Mike
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



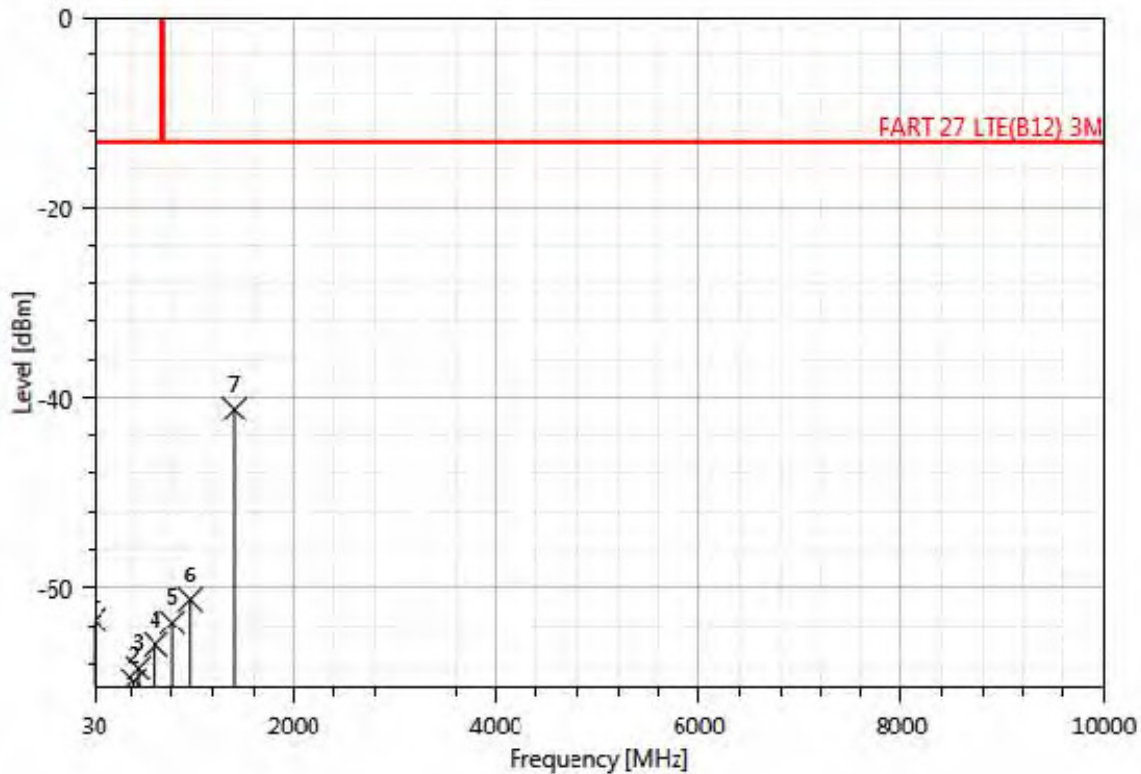
Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	ERP Level dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit @3m dBm	Margin dB
93.05	S	Peak	-68.89	-66.86	-0.81	-1.22	-13.00	-55.89
418.00	S	Peak	-69.09	-70.50	3.76	-2.35	-13.00	-56.09
512.09	S	Peak	-66.49	-67.93	3.79	-2.35	-13.00	-53.49
626.55	S	Peak	-63.48	-64.17	3.19	-2.49	-13.00	-50.48
804.06	S	Peak	-63.23	-63.67	3.34	-2.90	-13.00	-50.23
973.81	S	Peak	-59.25	-59.60	3.52	-3.18	-13.00	-46.25
1415.00	H	Peak	-28.63	-33.05	8.34	-3.91	-13.00	-15.63
2122.50	H	Peak	-32.53	-38.26	10.53	-4.81	-13.00	-19.53
2830.00	H	Peak	-54.05	-59.73	11.31	-5.63	-13.00	-41.05

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Operation Mode :	LTE B12	Test Date :	12/13/2016
Fundamental Frequency :	707.5 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Mike
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	ERP Level dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit @3m dBm	Margin dB
31.94	S	Peak	-63.29	-48.01	-14.31	-0.96	-13.00	-50.29
418.00	S	Peak	-69.65	-71.06	3.76	-2.35	-13.00	-56.65
463.59	S	Peak	-68.37	-69.86	3.71	-2.21	-13.00	-55.37
636.25	S	Peak	-65.91	-66.63	3.17	-2.45	-13.00	-52.91
803.09	S	Peak	-63.56	-64.00	3.34	-2.90	-13.00	-50.56
973.81	S	Peak	-61.17	-61.52	3.52	-3.18	-13.00	-48.17
1415.00	H	Peak	-41.11	-45.54	8.34	-3.91	-13.00	-28.11

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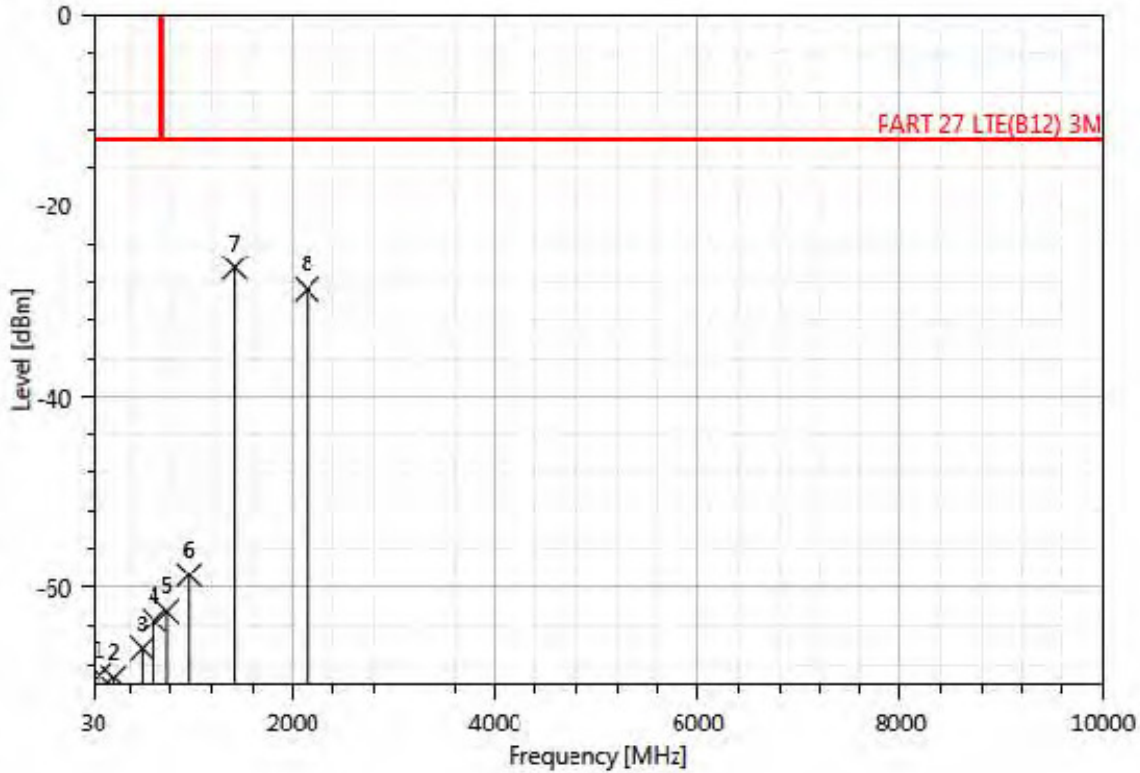
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Operation Mode : LTE B12 Test Date : 12/13/2016
 Fundamental Frequency : 713.5 MHz Temp. / Humi. : 21 deg_C / 62 RH
 Operation Band : Tx CH HIGH Test Engineer : Mike
 EUT Pol. : E1 Plane Measurement Antenna Pol. : VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	ERP Level dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit @3m dBm	Margin dB
93.05	S	Peak	-69.14	-67.11	-0.81	-1.22	-13.00	-56.14
235.64	S	Peak	-69.38	-70.86	3.21	-1.73	-13.00	-56.38
512.09	S	Peak	-66.36	-67.80	3.79	-2.35	-13.00	-53.36
631.40	S	Peak	-63.42	-64.14	3.18	-2.46	-13.00	-50.42
760.41	S	Peak	-62.44	-62.64	3.22	-3.01	-13.00	-49.44
972.84	S	Peak	-58.65	-58.99	3.50	-3.17	-13.00	-45.65
1427.00	H	Peak	-26.49	-30.95	8.39	-3.93	-13.00	-13.49
2140.50	H	Peak	-28.72	-34.45	10.55	-4.82	-13.00	-15.72

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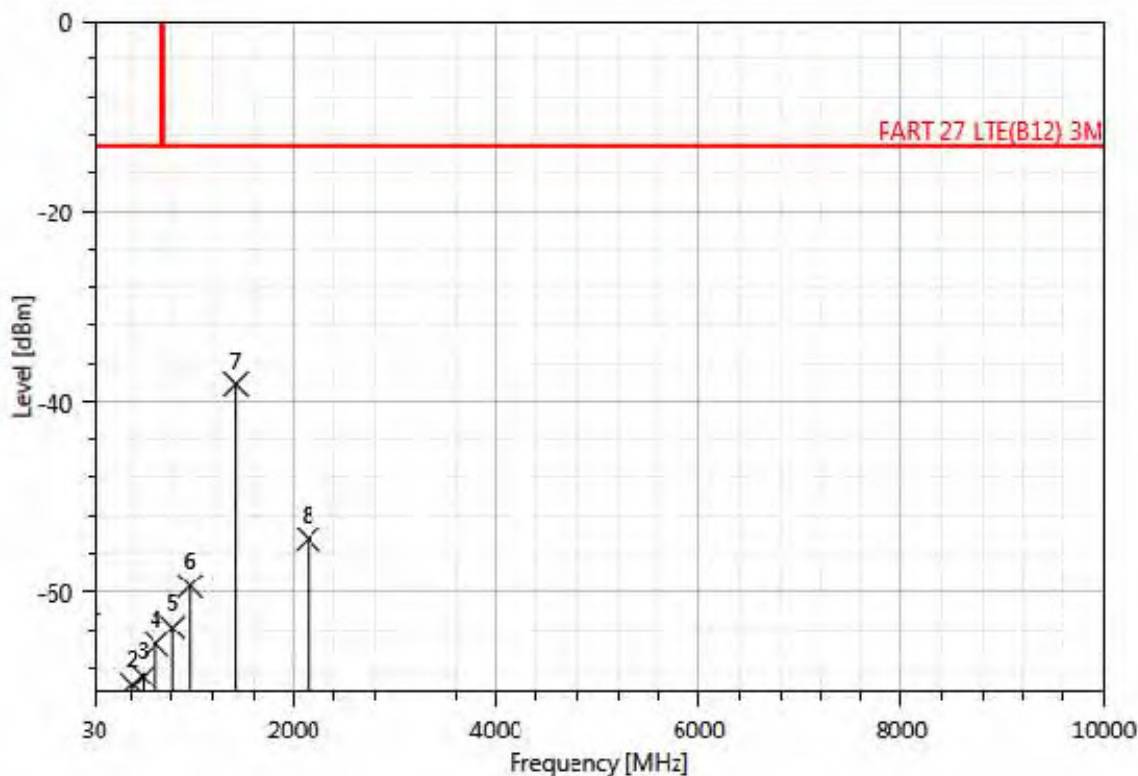
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Operation Mode : LTE B12 Test Date : 12/13/2016
 Fundamental Frequency : 713.5 MHz Temp. / Humi. : 21 deg_C / 62 RH
 Operation Band : Tx CH HIGH Test Engineer : Mike
 EUT Pol. : E1 Plane Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	ERP Level dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit @3m dBm	Margin dB
30.00	S	Peak	-64.14	-48.41	-14.78	-0.96	-13.00	-51.14
405.39	S	Peak	-69.65	-71.04	3.80	-2.41	-13.00	-56.65
513.06	S	Peak	-68.82	-70.25	3.79	-2.35	-13.00	-55.82
641.10	S	Peak	-65.43	-66.15	3.16	-2.43	-13.00	-52.43
806.00	S	Peak	-63.68	-64.12	3.33	-2.89	-13.00	-50.68
972.84	S	Peak	-59.31	-59.64	3.50	-3.17	-13.00	-46.31
1427.00	H	Peak	-38.13	-42.59	8.39	-3.93	-13.00	-25.13
2140.50	H	Peak	-54.41	-60.14	10.55	-4.82	-13.00	-41.41

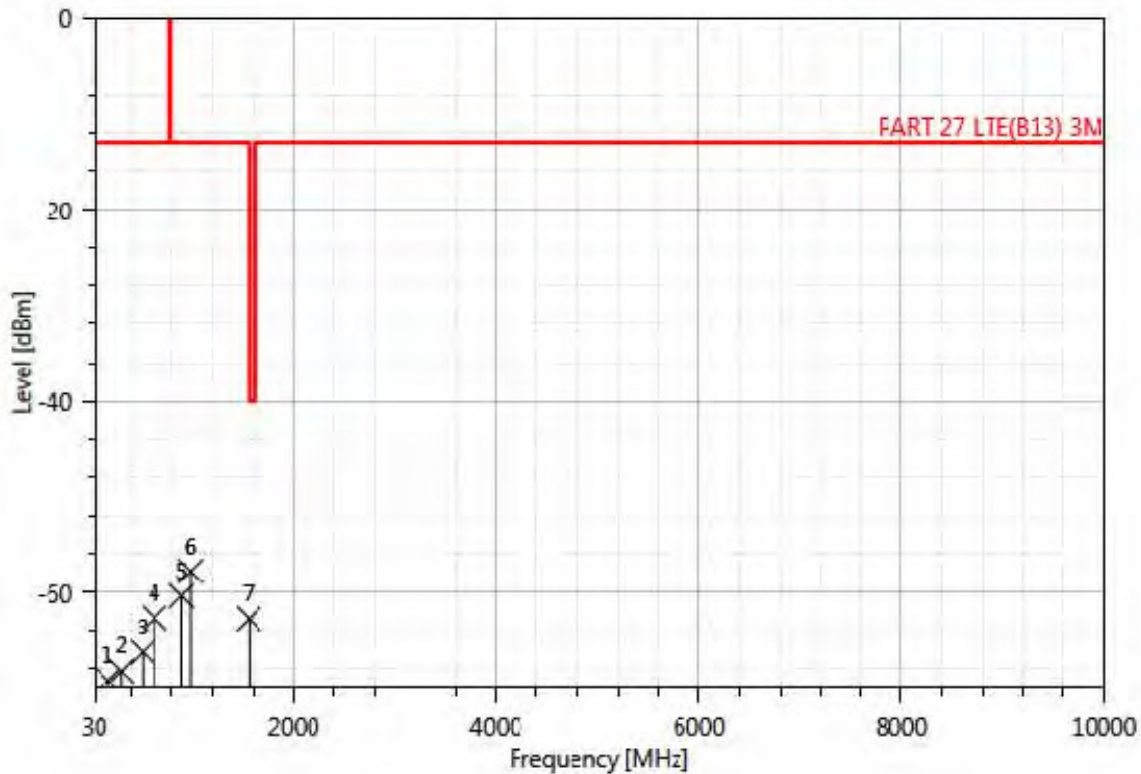
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Radiated Spurious Emission Measurement Result: LTE-Band 13 (The Worst Case)

Operation Mode :	LTE B13	Test Date :	12/13/2016
Fundamental Frequency :	779.5 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Mike
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



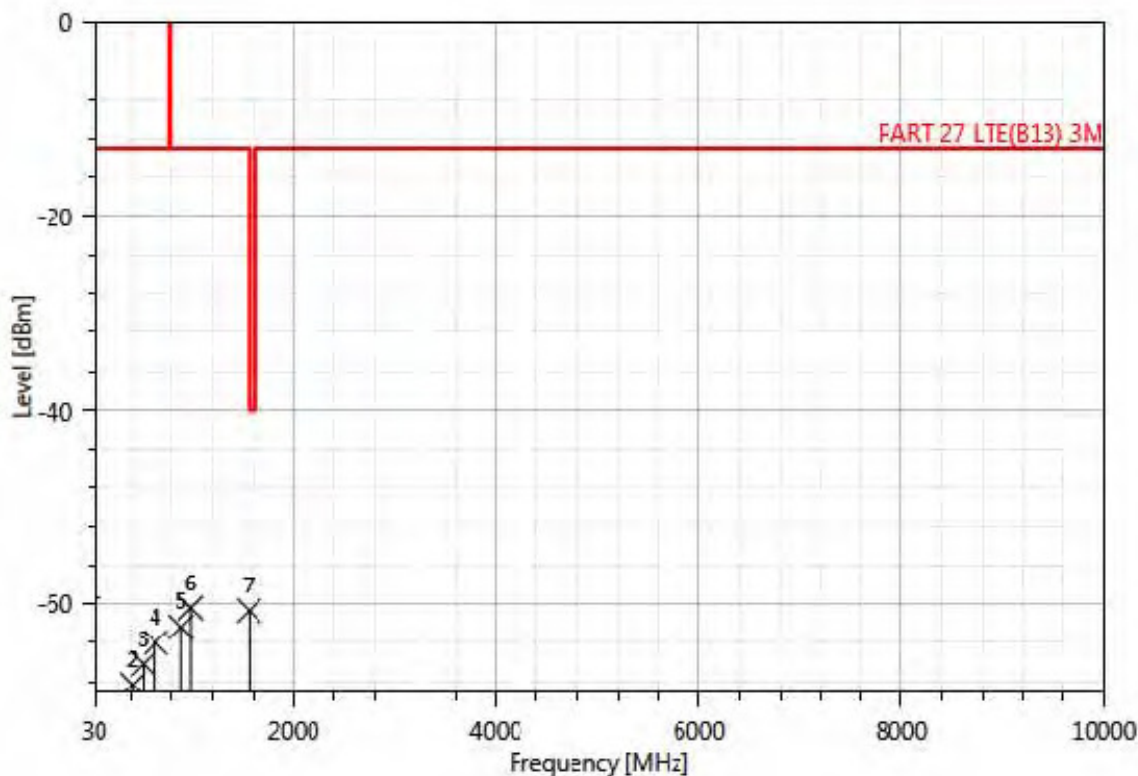
Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	ERP Level dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit @3m dBm	Margin dB
167.74	S	Peak	-69.20	-66.62	-1.07	-1.51	-13.00	-56.20
301.60	S	Peak	-68.20	-69.88	3.63	-1.94	-13.00	-55.20
508.21	S	Peak	-66.24	-67.71	3.81	-2.34	-13.00	-53.24
624.61	S	Peak	-62.64	-63.32	3.19	-2.51	-13.00	-49.64
890.39	S	Peak	-60.36	-60.32	3.27	-3.30	-13.00	-47.36
978.66	S	Peak	-57.80	-58.23	3.62	-3.19	-13.00	-44.80
1559.00	H	Peak	-62.71	-67.52	8.93	-4.12	-40.00	-22.71

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Operation Mode :	LTE B13	Test Date :	12/13/2016
Fundamental Frequency :	779.5 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Mike
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	ERP Level dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit @3m dBm	Margin dB
30.00	S	Peak	-61.26	-45.52	-14.78	-0.96	-13.00	-48.26
408.30	S	Peak	-68.31	-69.69	3.79	-2.41	-13.00	-55.31
513.06	S	Peak	-66.18	-67.61	3.79	-2.35	-13.00	-53.18
636.25	S	Peak	-63.98	-64.70	3.17	-2.45	-13.00	-50.98
885.54	S	Peak	-62.39	-62.38	3.27	-3.28	-13.00	-49.39
977.69	S	Peak	-60.44	-60.85	3.60	-3.19	-13.00	-47.44
1559.00	H	Peak	-60.71	-65.52	8.93	-4.12	-40.00	-20.71

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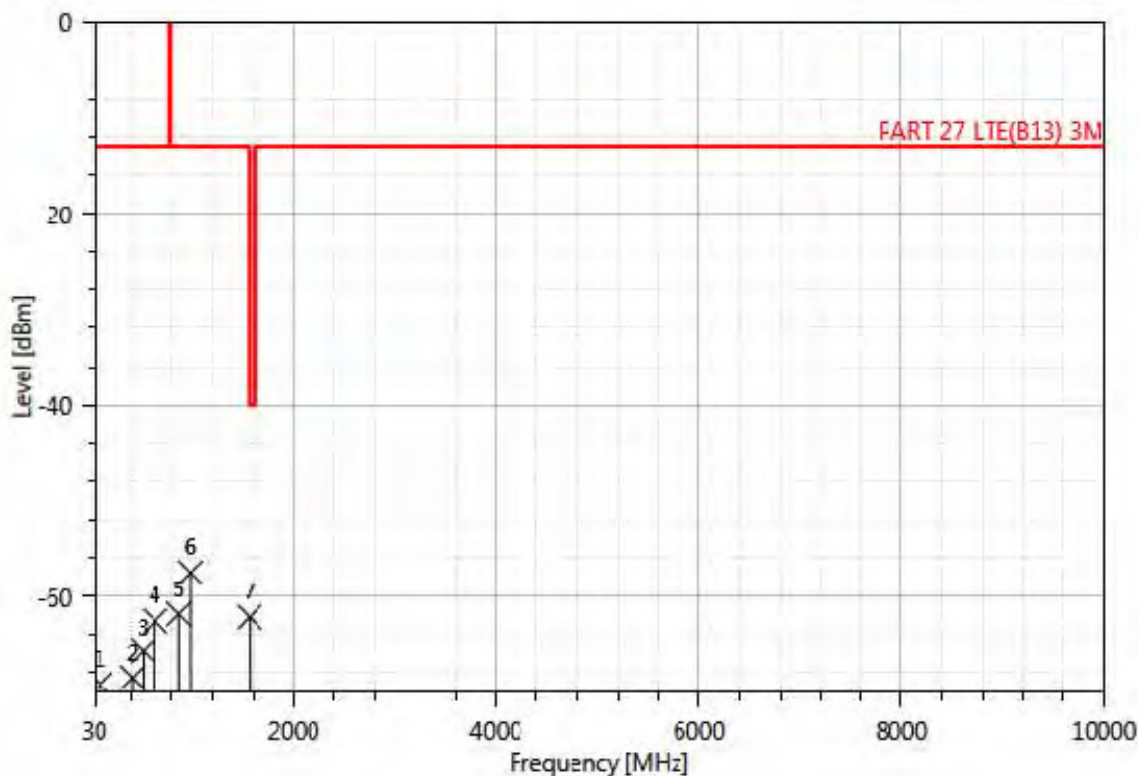
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Operation Mode :	LTE B13	Test Date :	12/13/2016
Fundamental Frequency :	782.0 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Mike
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	ERP Level dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit @3m dBm	Margin dB
91.11	S	Peak	-69.20	-67.42	-0.57	-1.21	-13.00	-56.20
408.30	S	Peak	-68.49	-69.87	3.79	-2.41	-13.00	-55.49
513.06	S	Peak	-65.74	-67.18	3.79	-2.35	-13.00	-52.74
631.40	S	Peak	-62.51	-63.22	3.18	-2.46	-13.00	-49.51
864.20	S	Peak	-61.81	-61.96	3.27	-3.11	-13.00	-48.81
977.69	S	Peak	-57.53	-57.94	3.60	-3.19	-13.00	-44.53
1564.00	H	Peak	-62.11	-66.93	8.95	-4.13	-40.00	-22.11

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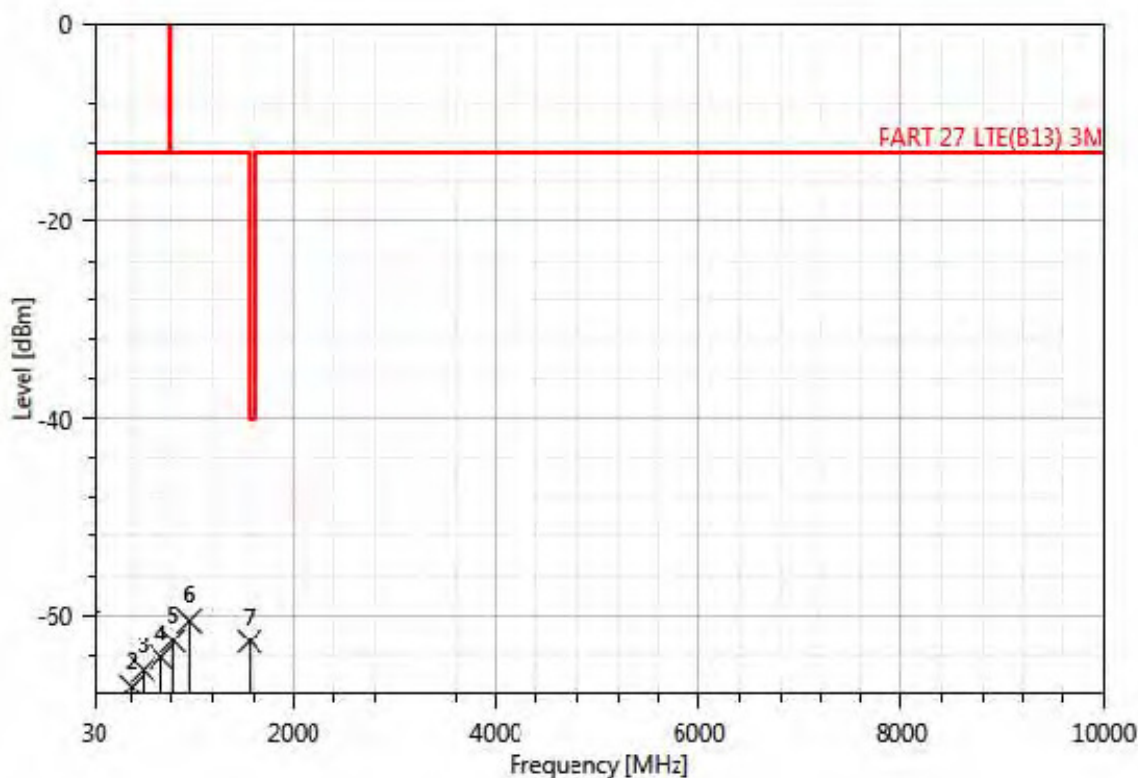
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Operation Mode :	LTE B13	Test Date :	12/13/2016
Fundamental Frequency :	782.0 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Mike
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	ERP Level dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit @3m dBm	Margin dB
30.00	S	Peak	-61.44	-45.71	-14.78	-0.96	-13.00	-48.44
401.51	S	Peak	-67.17	-68.60	3.82	-2.39	-13.00	-54.17
513.06	S	Peak	-65.47	-66.90	3.79	-2.35	-13.00	-52.47
692.51	S	Peak	-64.20	-64.45	3.09	-2.84	-13.00	-51.20
808.91	S	Peak	-62.52	-62.95	3.33	-2.89	-13.00	-49.52
966.05	S	Peak	-60.50	-60.72	3.37	-3.15	-13.00	-47.50
1564.00	H	Peak	-62.57	-67.39	8.95	-4.13	-40.00	-22.57

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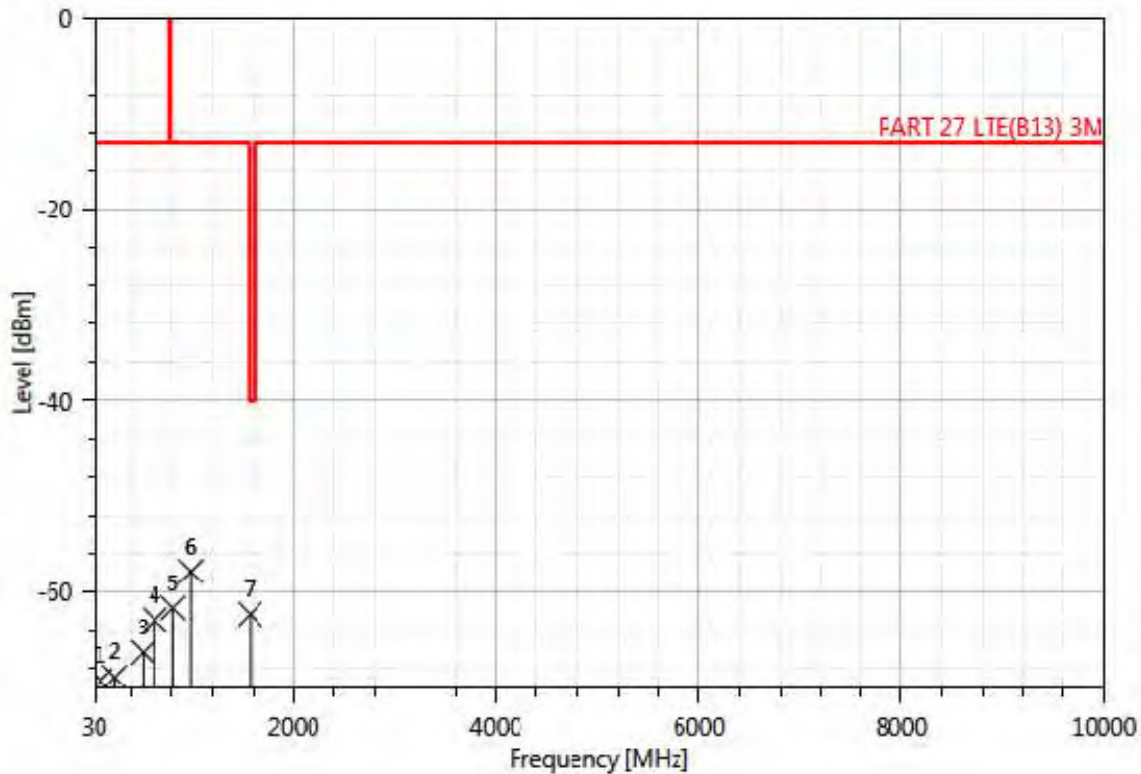
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Operation Mode :	LTE B13	Test Date :	12/13/2016
Fundamental Frequency :	784.5 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Mike
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	ERP Level dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit @3m dBm	Margin dB
93.05	S	Peak	-69.26	-67.23	-0.81	-1.22	-13.00	-56.26
235.64	S	Peak	-68.92	-70.39	3.21	-1.73	-13.00	-55.92
512.09	S	Peak	-66.35	-67.79	3.79	-2.35	-13.00	-53.35
628.49	S	Peak	-62.91	-63.62	3.18	-2.47	-13.00	-49.91
807.94	S	Peak	-61.67	-62.10	3.33	-2.89	-13.00	-48.67
980.60	S	Peak	-57.87	-58.33	3.66	-3.20	-13.00	-44.87
1569.00	H	Peak	-62.32	-67.15	8.97	-4.14	-40.00	-22.32

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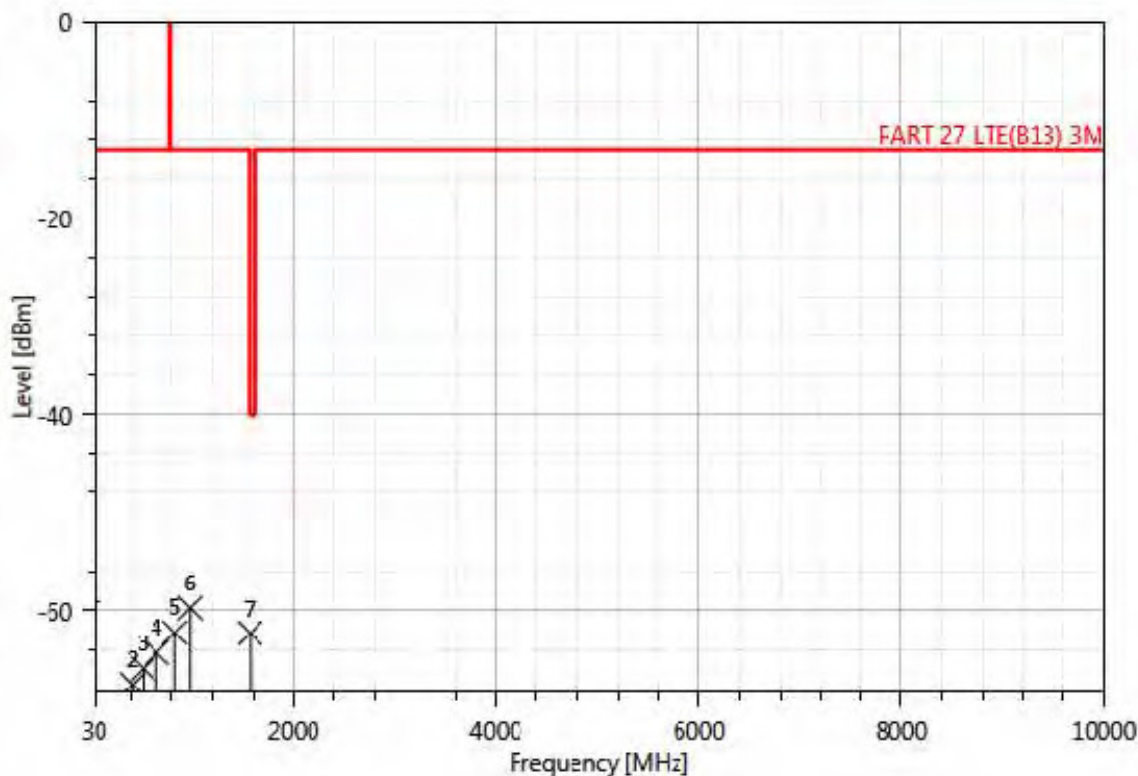
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Operation Mode :	LTE B13	Test Date :	12/13/2016
Fundamental Frequency :	784.5 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Mike
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	ERP Level dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit @3m dBm	Margin dB
30.00	S	Peak	-60.96	-45.22	-14.78	-0.96	-13.00	-47.96
408.30	S	Peak	-67.56	-68.94	3.79	-2.41	-13.00	-54.56
513.06	S	Peak	-65.91	-67.35	3.79	-2.35	-13.00	-52.91
647.89	S	Peak	-64.32	-65.05	3.14	-2.41	-13.00	-51.32
825.40	S	Peak	-62.28	-62.65	3.30	-2.93	-13.00	-49.28
973.81	S	Peak	-59.78	-60.13	3.52	-3.18	-13.00	-46.78
1569.00	H	Peak	-62.33	-67.15	8.97	-4.14	-40.00	-22.33

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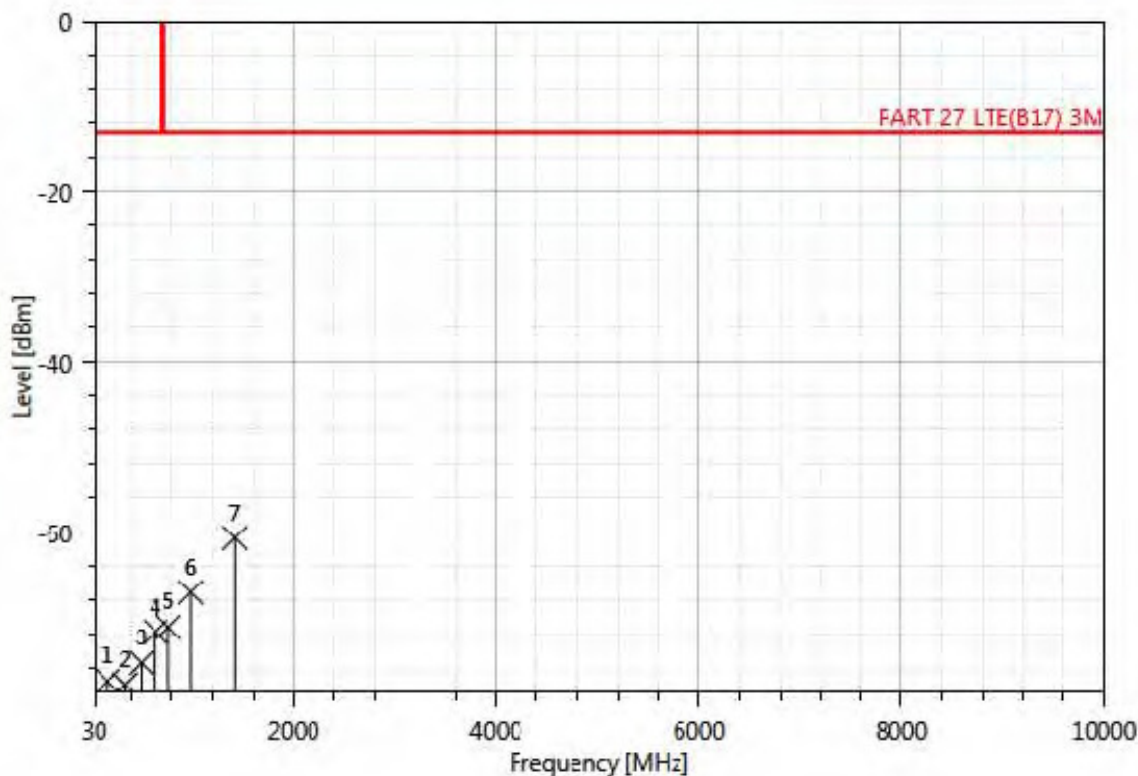
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Radiated Spurious Emission Measurement Result: LTE-Band 17 (The Worst Case)

Operation Mode :	LTE B17	Test Date :	12/13/2016
Fundamental Frequency :	709.0 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Mike
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	ERP Level dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit @3m dBm	Margin dB
165.80	S	Peak	-77.48	-74.76	-1.21	-1.50	-13.00	-64.48
335.55	S	Peak	-77.89	-79.75	3.80	-1.93	-13.00	-64.89
493.66	S	Peak	-75.32	-76.87	3.83	-2.29	-13.00	-62.32
636.25	S	Peak	-71.70	-72.42	3.17	-2.45	-13.00	-58.70
762.35	S	Peak	-71.13	-71.35	3.22	-3.00	-13.00	-58.13
978.66	S	Peak	-67.05	-67.48	3.62	-3.19	-13.00	-54.05
1418.00	H	Peak	-60.65	-65.08	8.35	-3.92	-13.00	-47.65

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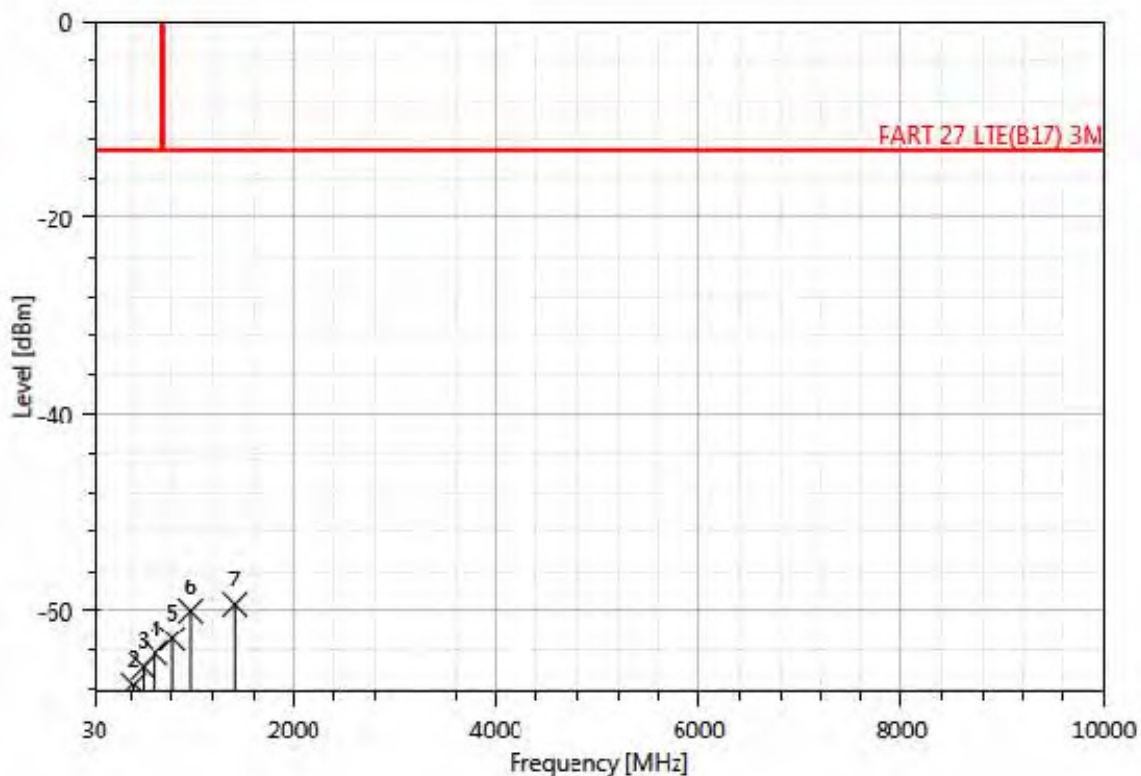
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Operation Mode :	LTE B17	Test Date :	12/13/2016
Fundamental Frequency :	709.0 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Mike
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	ERP Level dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit @3m dBm	Margin dB
30.00	S	Peak	-61.74	-46.00	-14.78	-0.96	-13.00	-48.74
415.09	S	Peak	-67.52	-68.92	3.77	-2.37	-13.00	-54.52
513.06	S	Peak	-65.72	-67.15	3.79	-2.35	-13.00	-52.72
636.25	S	Peak	-64.34	-65.06	3.17	-2.45	-13.00	-51.34
803.09	S	Peak	-62.87	-63.31	3.34	-2.90	-13.00	-49.87
977.69	S	Peak	-60.05	-60.46	3.60	-3.19	-13.00	-47.05
1418.00	H	Peak	-59.38	-63.82	8.35	-3.92	-13.00	-46.38

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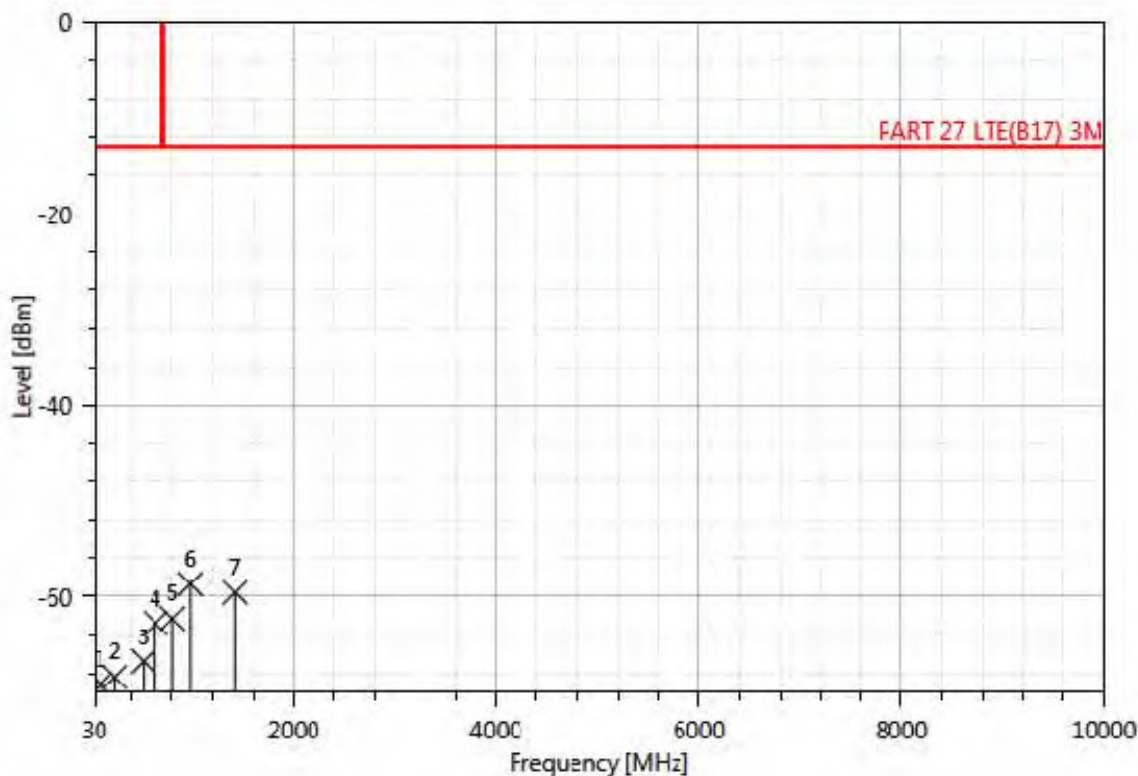
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Operation Mode :	LTE B17	Test Date :	12/13/2016
Fundamental Frequency :	710.0 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Mike
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	ERP Level dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit @3m dBm	Margin dB
94.02	S	Peak	-69.14	-66.99	-0.93	-1.22	-13.00	-56.14
235.64	S	Peak	-68.37	-69.84	3.21	-1.73	-13.00	-55.37
515.97	S	Peak	-66.74	-68.14	3.77	-2.36	-13.00	-53.74
636.25	S	Peak	-62.75	-63.46	3.17	-2.45	-13.00	-49.75
803.09	S	Peak	-62.26	-62.71	3.34	-2.90	-13.00	-49.26
975.75	S	Peak	-58.66	-59.04	3.56	-3.18	-13.00	-45.66
1420.00	H	Peak	-59.57	-64.01	8.36	-3.92	-13.00	-46.57

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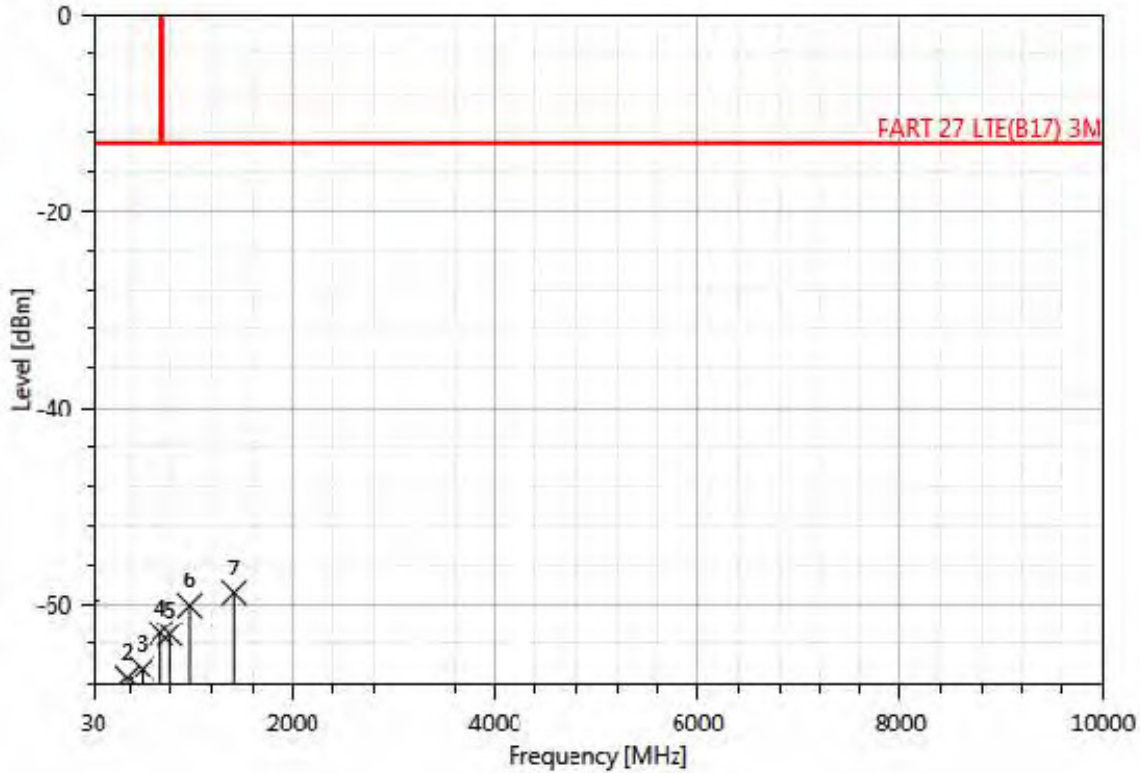
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Operation Mode :	LTE B17	Test Date :	12/13/2016
Fundamental Frequency :	710.0 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Mike
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	ERP Level dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit @3m dBm	Margin dB
30.00	S	Peak	-61.43	-45.70	-14.78	-0.96	-13.00	-48.43
366.59	S	Peak	-67.42	-69.09	3.85	-2.17	-13.00	-54.42
513.06	S	Peak	-66.54	-67.97	3.79	-2.35	-13.00	-53.54
697.36	S	Peak	-62.93	-63.08	3.08	-2.93	-13.00	-49.93
788.54	S	Peak	-63.04	-63.44	3.31	-2.90	-13.00	-50.04
977.69	S	Peak	-60.12	-60.54	3.60	-3.19	-13.00	-47.12
1420.00	H	Peak	-58.84	-63.28	8.36	-3.92	-13.00	-45.84

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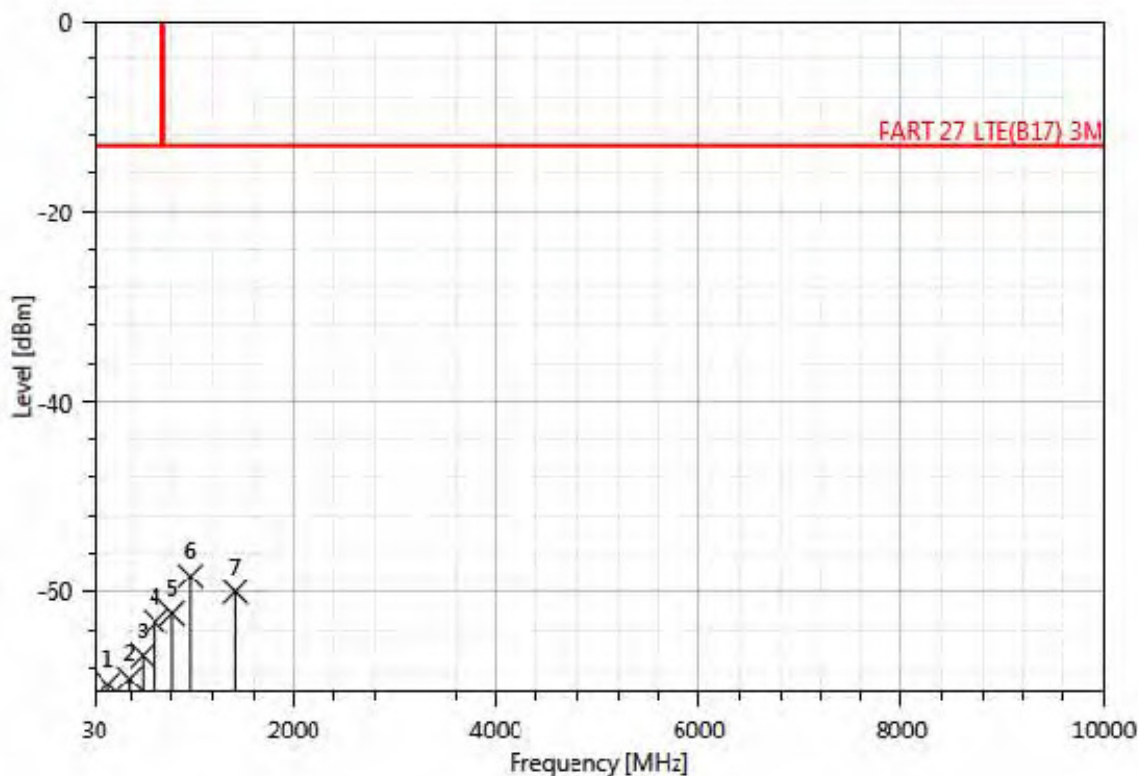
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Operation Mode :	LTE B17	Test Date :	12/13/2016
Fundamental Frequency :	711.0 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Mike
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	ERP Level dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit @3m dBm	Margin dB
167.74	S	Peak	-69.78	-67.20	-1.07	-1.51	-13.00	-56.78
377.26	S	Peak	-69.18	-70.77	3.84	-2.24	-13.00	-56.18
508.21	S	Peak	-66.76	-68.23	3.81	-2.34	-13.00	-53.76
634.31	S	Peak	-63.18	-63.89	3.17	-2.45	-13.00	-50.18
801.15	S	Peak	-62.28	-62.72	3.34	-2.90	-13.00	-49.28
975.75	S	Peak	-58.39	-58.77	3.56	-3.18	-13.00	-45.39
1422.00	H	Peak	-60.04	-64.49	8.37	-3.93	-13.00	-47.04

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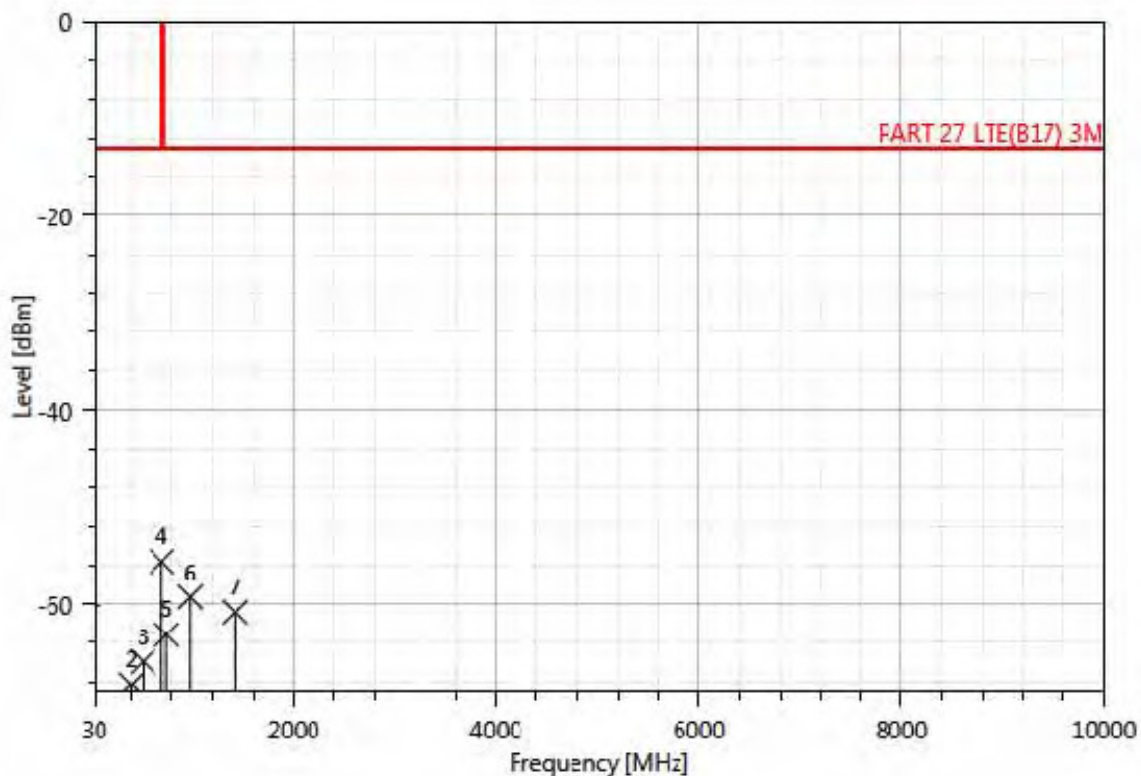
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Operation Mode : LTE B17 Test Date : 12/13/2016
 Fundamental Frequency : 711.0 MHz Temp. / Humi. : 21 deg_C / 62 RH
 Operation Band : Tx CH HIGH Test Engineer : Mike
 EUT Pol. : E1 Plane Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	ERP Level dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit @3m dBm	Margin dB
30.00	S	Peak	-62.15	-46.41	-14.78	-0.96	-13.00	-49.15
396.66	S	Peak	-68.28	-69.74	3.82	-2.36	-13.00	-55.28
513.06	S	Peak	-65.89	-67.33	3.79	-2.35	-13.00	-52.89
697.36	S	Peak	-55.62	-55.78	3.08	-2.93	-13.00	-42.62
744.89	S	Peak	-63.16	-63.22	3.17	-3.11	-13.00	-50.16
973.81	S	Peak	-59.28	-59.63	3.52	-3.18	-13.00	-46.28
1422.00	H	Peak	-60.83	-65.28	8.37	-3.93	-13.00	-47.83

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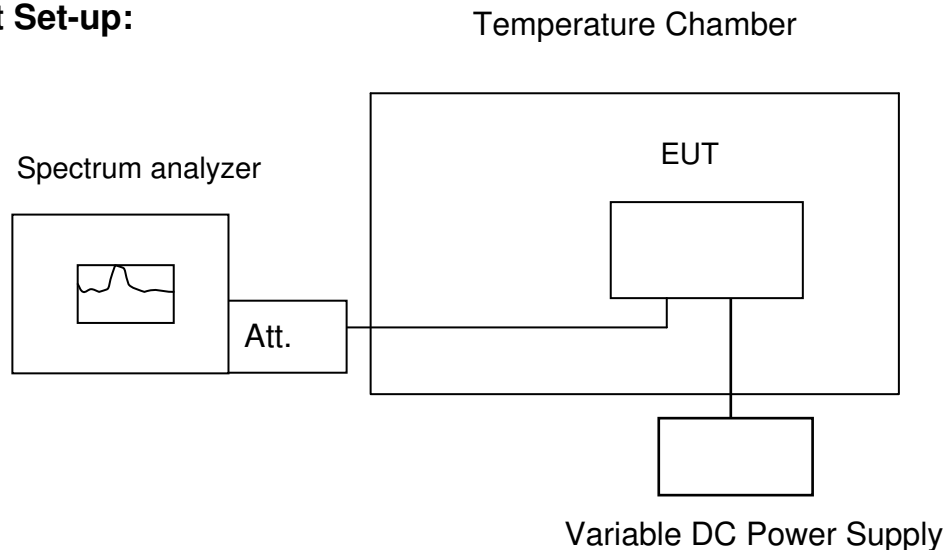
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11. FREQUENCY STABILITY MEASUREMENT

11.1. Standard Applicable:

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

11.2. Test Set-up:



Note: Measurement setup for testing on Antenna connector

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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	02/26/2016	02/25/2017
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2016	01/01/2017
Coaxial Cable	HUBER+SUHNER	SUCOFLEX 102	23670/2	01/02/2016	01/01/2017
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2016	01/01/2017
Splitter	Agilent	11636B	N/A	01/02/2016	01/01/2017
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	R&S	CMU200	102189	02/11/2016	02/10/2017
Radio Communication Analyzer	Anritsu	MT8820C	6200995019	09/24/2016	09/23/2017

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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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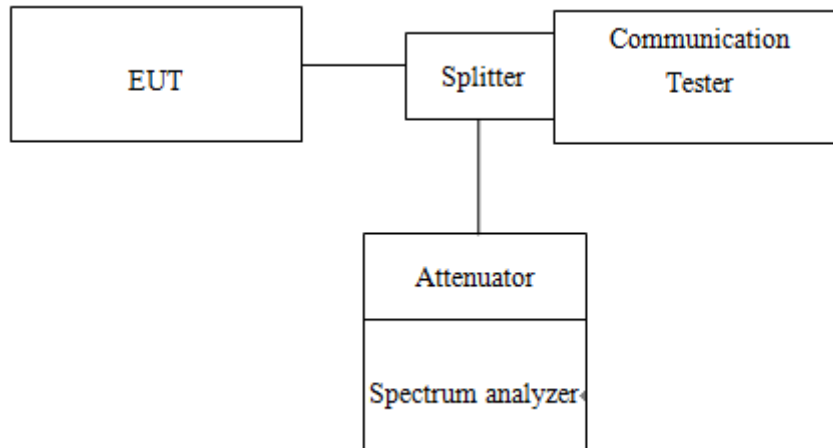
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12. PEAK TO AVERAGE RATIO

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	02/26/2016	02/25/2017
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2016	01/01/2017
Coaxial Cable	HUBER+SUHNER	SUCOFLEX 102	23670/2	01/02/2016	01/01/2017
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2016	01/01/2017
Splitter	Agilent	11636B	N/A	01/02/2016	01/01/2017
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	9.72	12.14
1880.0	9400	10.28	12.96
1909.8	9538	10.35	11.91

Freq. (MHz)	CH	Peak-to-Average	
		CDMA BC1	EVDO BC1
1850.2	512	3.16	2.13
1880.0	661	3.43	3.38
1909.8	810	2.83	2.83

Freq. (MHz)	CH	Peak-to-Average		
		WCDMA II	HSDPA II	HSUPA II
1850.2	9262	2.87	3.65	3.91
1880.0	9400	3.03	3.85	4.06
1909.8	9538	2.83	3.78	4.25

Freq. (MHz)	CH	Peak-to-Average		
		WCDMA IV	HSDPA	HSUPA
1712.4	1312	2.80	3.99	4.33
1732.6	1413	2.89	4.10	4.08
1752.6	1513	2.83	3.84	4.25

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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	5.458	13	1851.5	18615	5.9225	13
1880.0	18900	5.275556	13	1880.0	18900	5.765	13
1909.3	19193	5.031667	13	1908.5	19185	5.59	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	5.701667	13	1855.0	18650	5.906667	13
1880.0	18900	5.526	13	1880.0	18900	5.715	13
1907.5	19175	5.476667	13	1905.0	19150	5.58	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	6.6925	13	1860.0	18700	7.005	13
1880.0	18900	6.6	13	1880.0	18900	7.125714	13
1902.5	19125	6.61	13	1900.0	19100	7.005	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	6.196667	13	1711.5	19965	6.5	13
1732.5	20175	6.39	13	1732.5	20175	6.432	13
1754.3	20393	6.49	13	1753.5	20385	6.61	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	6.342	13	1715.0	20000	6.2	13
1732.5	20175	6.265	13	1732.5	20175	6.194444	13
1752.5	20375	6.335	13	1750.0	20350	6.42	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	6.89	13	1720.0	20050	7.163333	13
1732.5	20175	6.787143	13	1732.5	20175	7.201667	13
1747.5	20325	6.726667	13	1745.0	20300	7.19	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	5.77	13	825.5	20415	5.81	13
836.5	20525	6.156667	13	836.5	20525	6.303333	13
848.3	20643	5.712	13	847.5	20635	6.0025	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	5.626667	13	829.0	20450	5.545	13
836.5	20525	6.15	13	836.5	20525	5.834444	13
846.5	20625	5.645	13	844.0	20600	5.82	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	6.3825	13	2505.0	20800	6.144	13
2535.0	21100	6.104286	13	2535.0	21100	6.09	13
2567.5	21425	5.915	13	2565.0	21400	5.907143	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	6.79	13	2510.0	20850	7.11	13
2535.0	20525	6.688333	13	2535.0	21100	7.13	13
2562.5	20625	6.67	13	2560.0	21350	7.0375	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	6.136667	13	700.5	23025	6.393333	13
707.5	23095	6.17	13	707.5	23095	6.325	13
715.3	23173	5.86	13	714.5	23165	6.225	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	6.24	13	704.0	23060	6.27	13
707.5	23095	6.1525	13	707.5	23095	6.116667	13
713.5	23155	6.138333	13	711.0	23130	6.09	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	5.432	13				13
782.0	23230	5.528	13	782.0	23230	5.711429	13
784.5	23255	5.45	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	6.186	13	709.0	23780	6.01	13
710.0	23790	6.17	13	710.0	23790	5.99	13
713.5	23825	6.175	13	711.0	23780	5.915	13

Measurement Results:

Please refer to next page.

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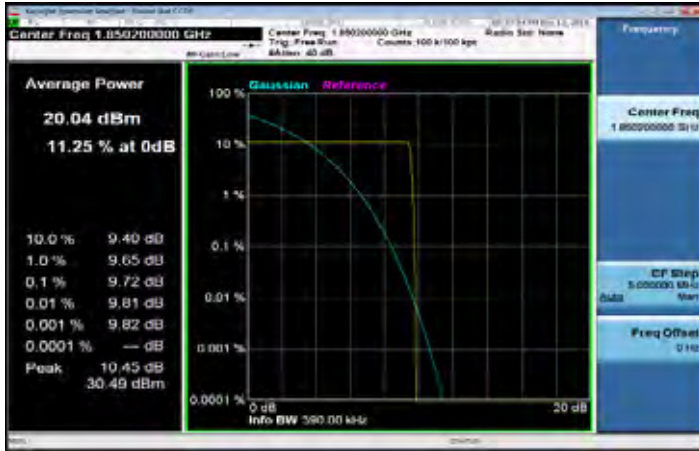
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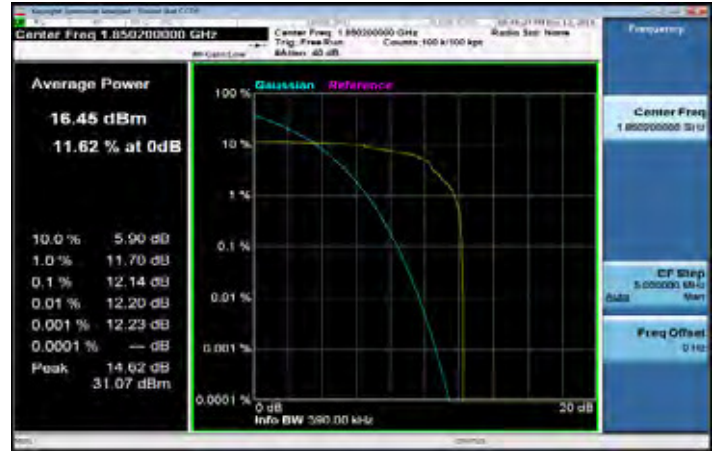
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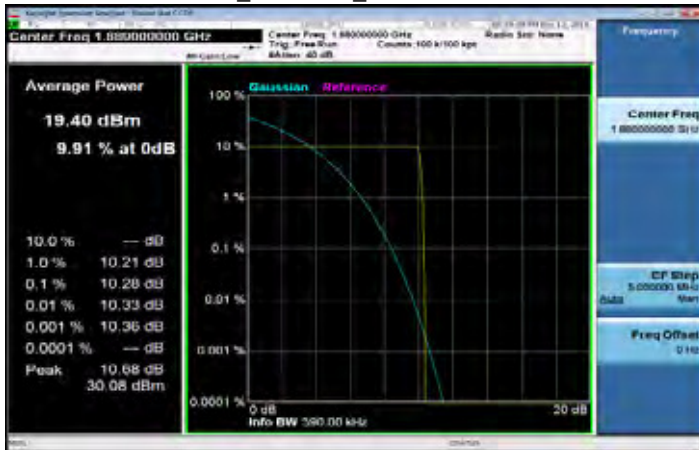
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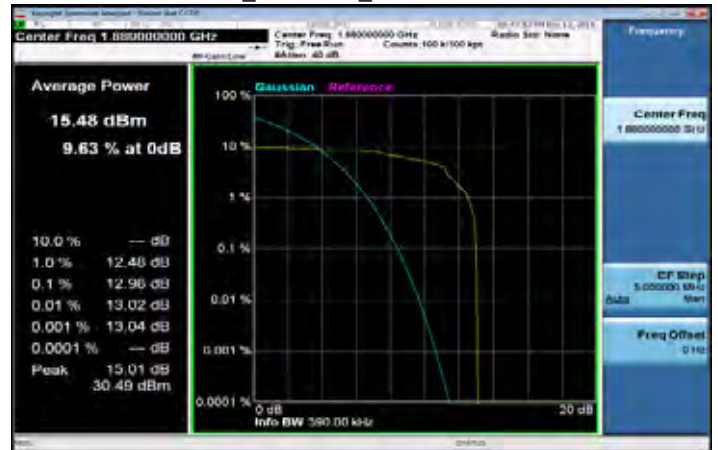
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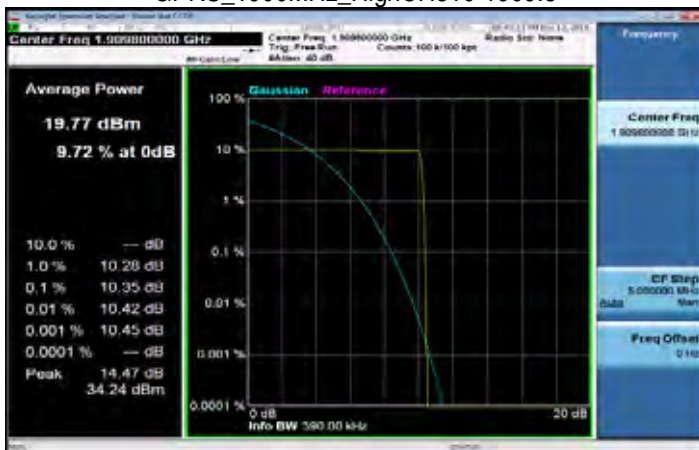
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EDGE_1900MHz_MidCH661-1880



GPRS_1900MHz_HighCH810-1909.8



EDGE_1900MHz_HighCH810-1909.8



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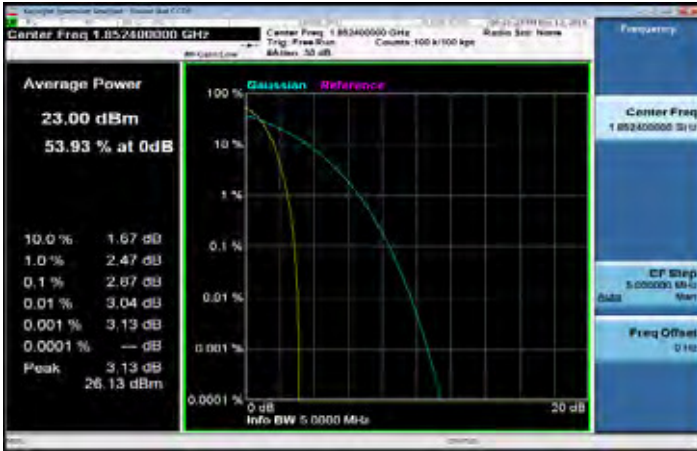
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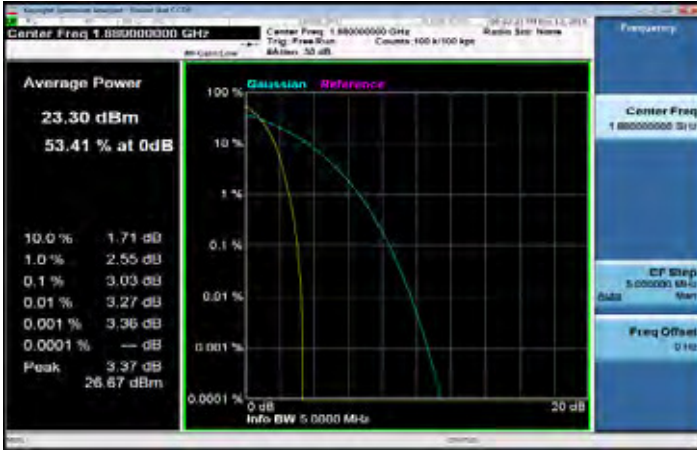
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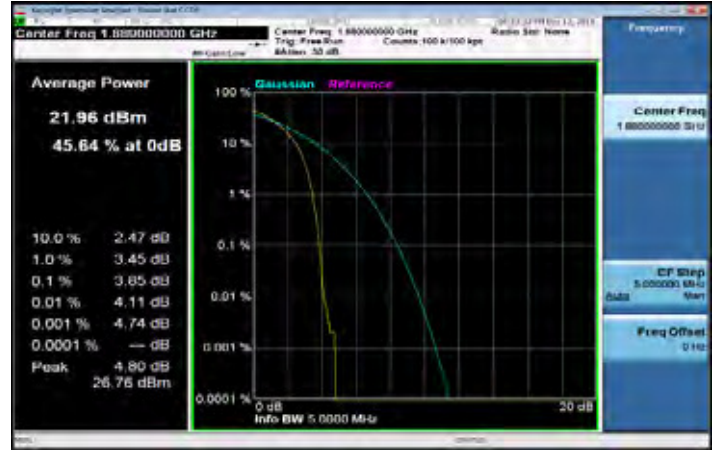
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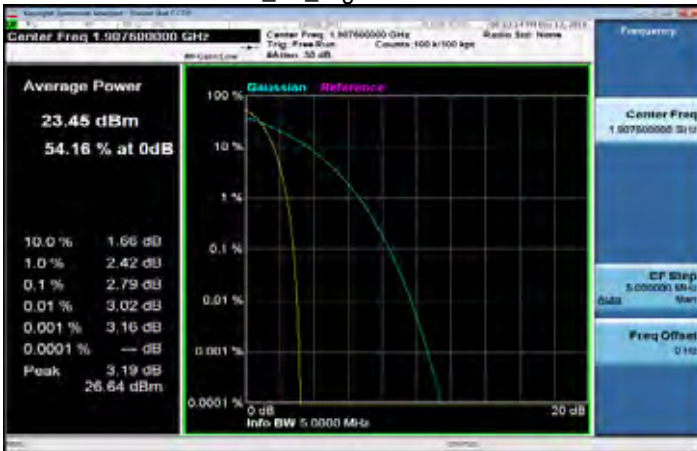
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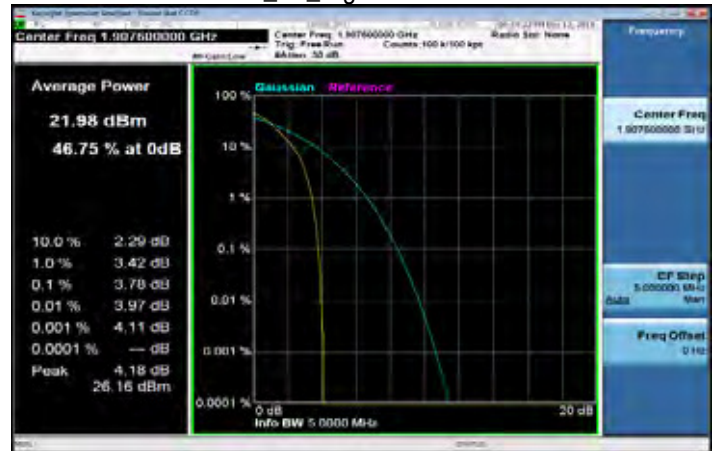
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HSDPA_B2_HighCH9538-1907.6



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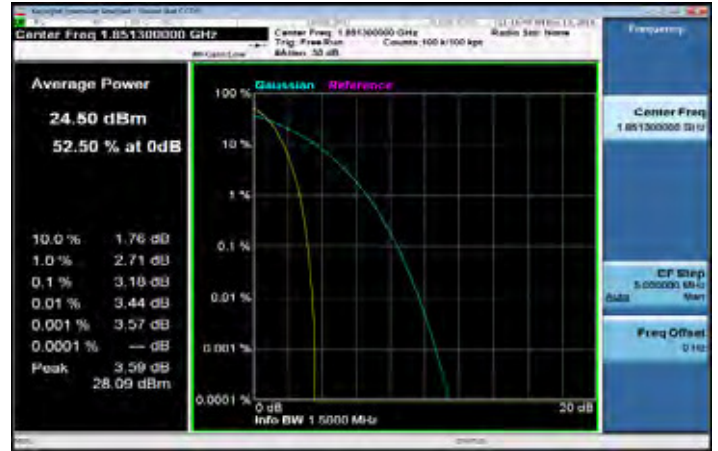
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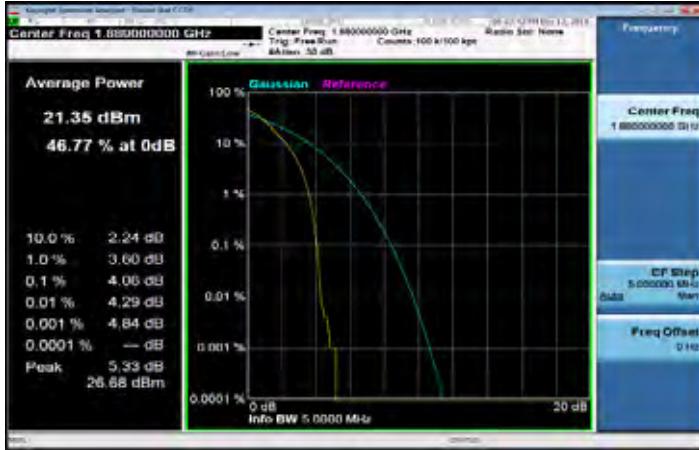
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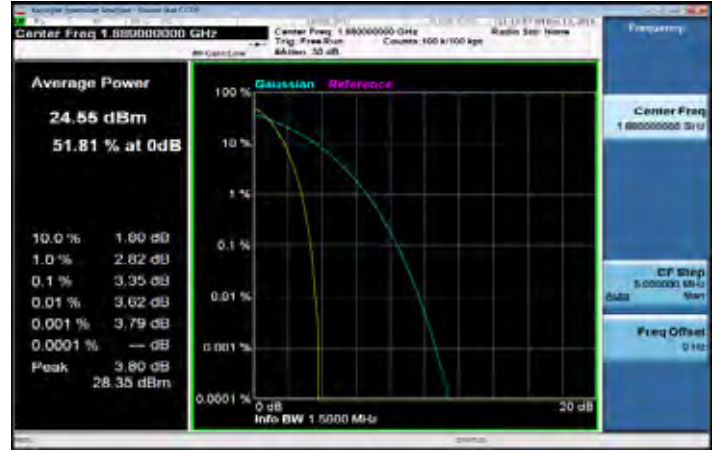
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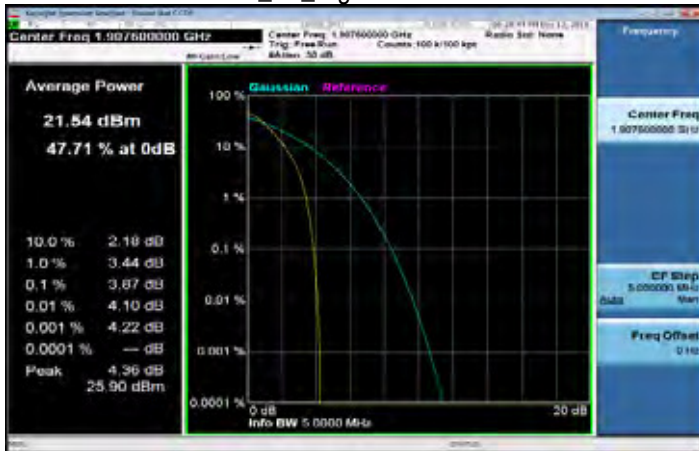
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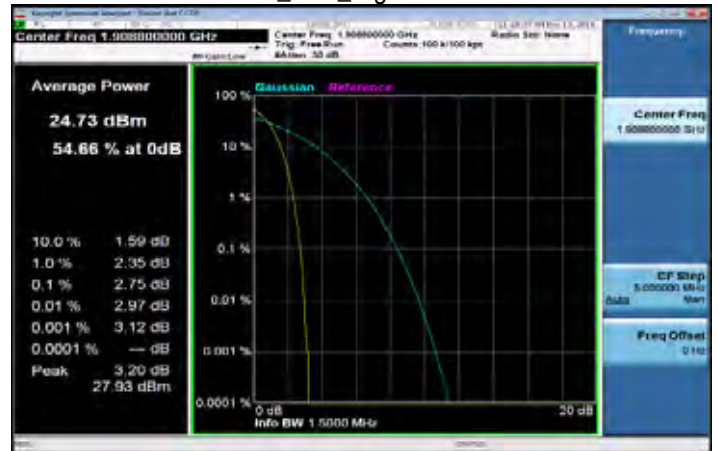
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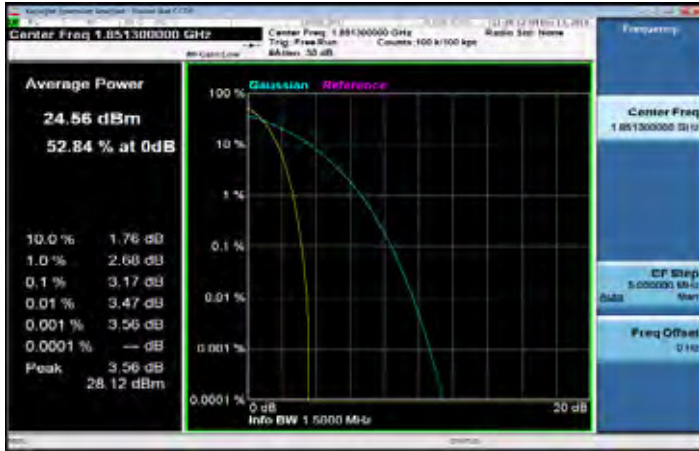


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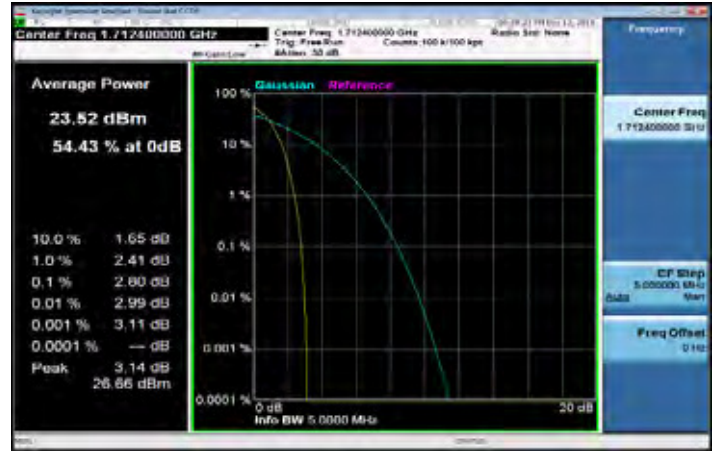
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EVDO_BC1_LowCH25-1851.3



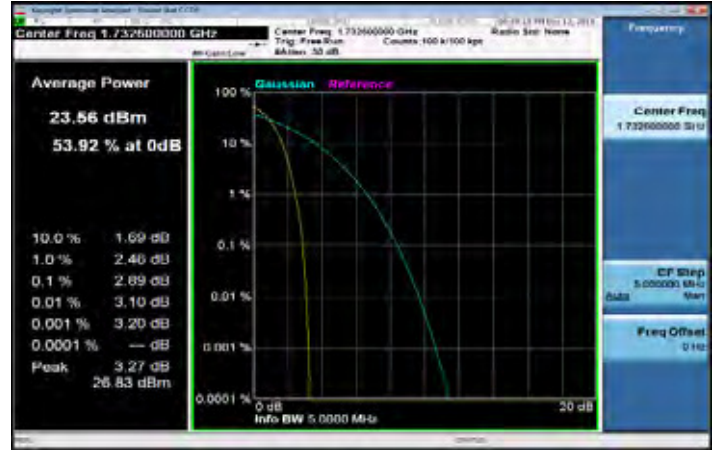
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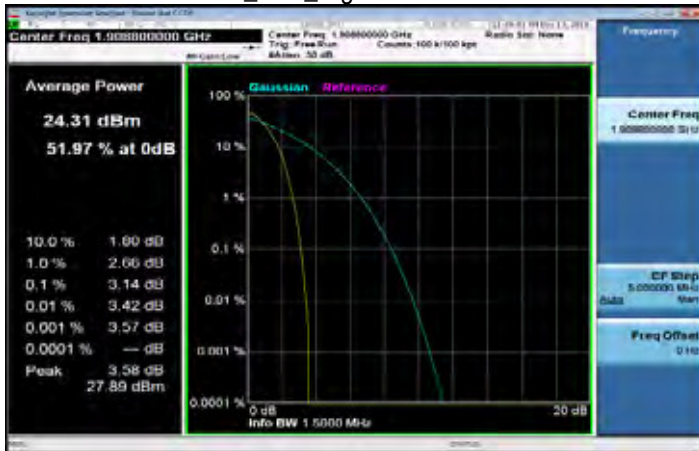
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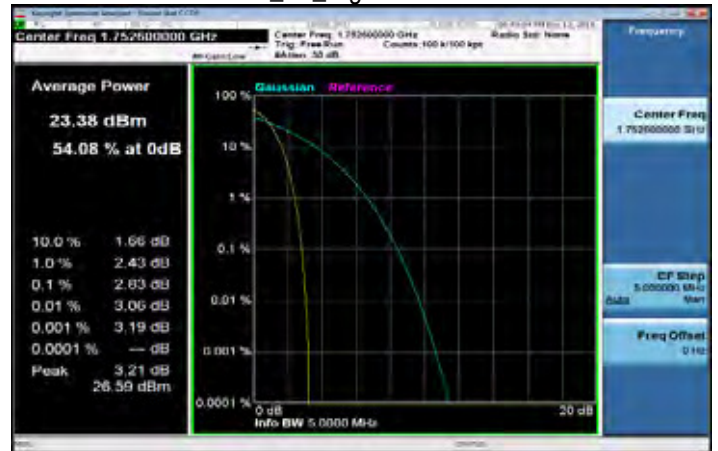
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EVDO_BC1_HighCH1175-1908.8



WCDMA_B4_HighCH1513-1752.6



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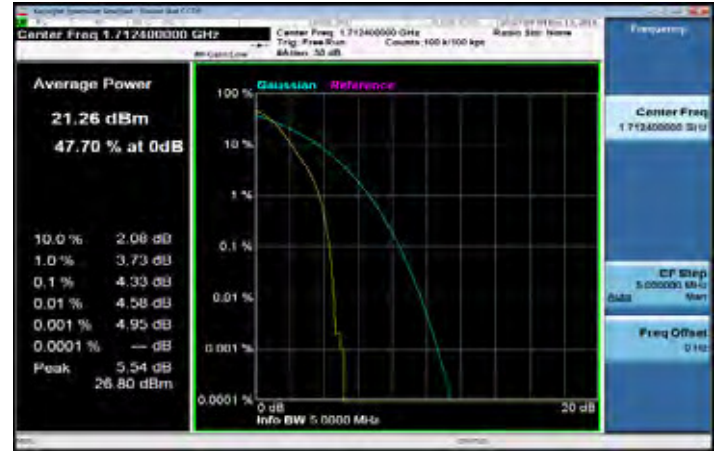
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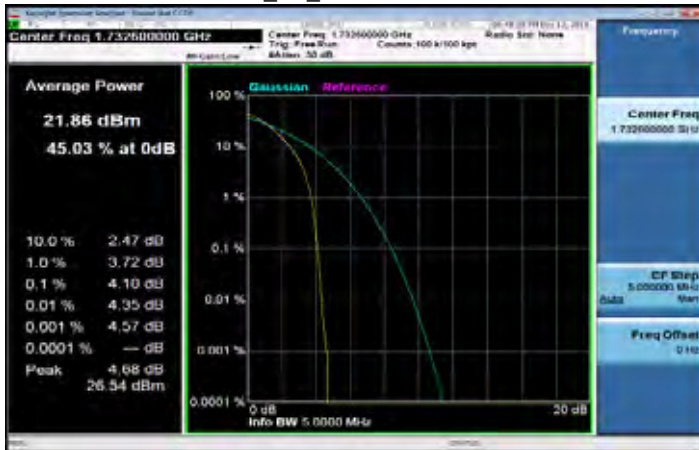
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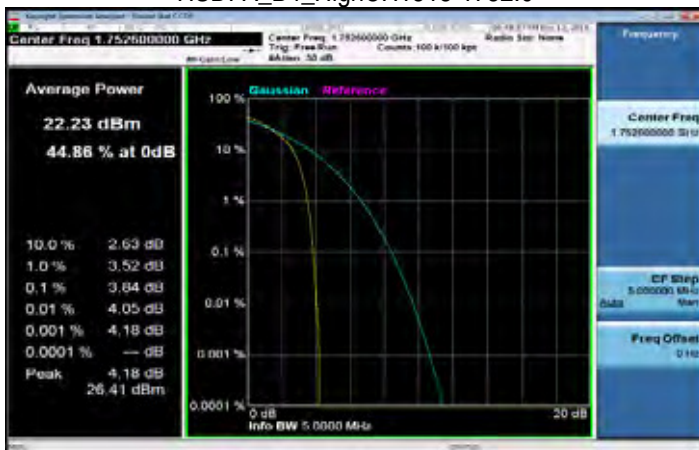
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HSUPA_B4_HighCH1513-1752.6



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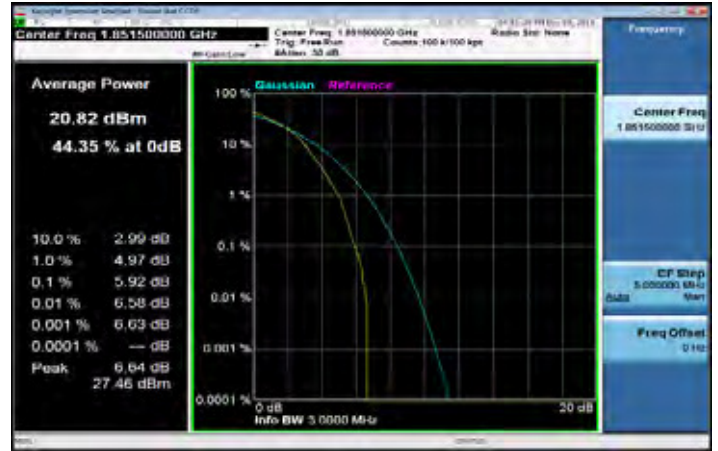
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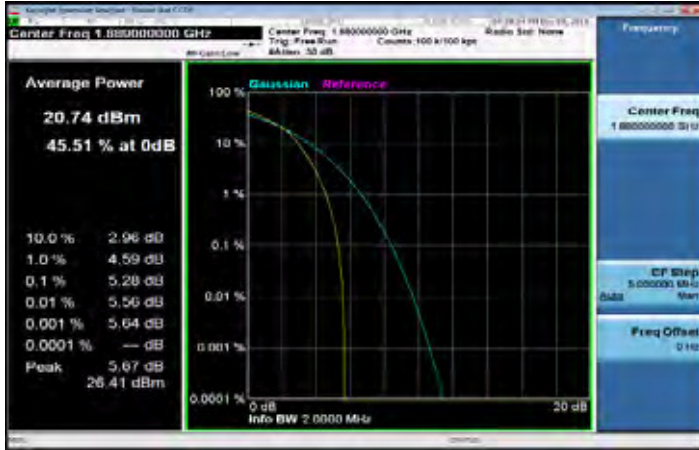
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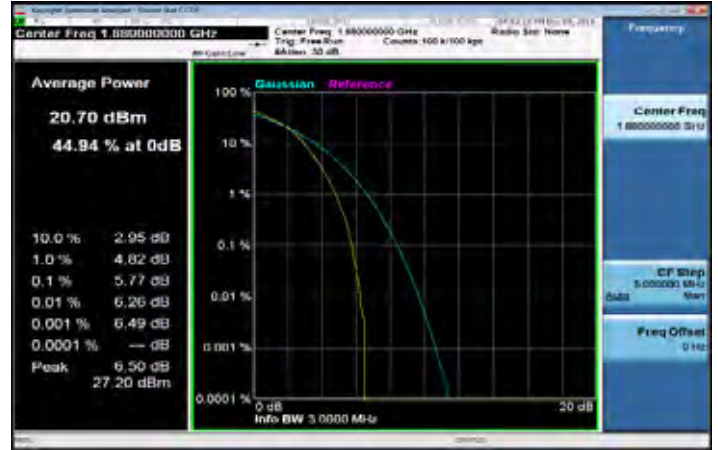
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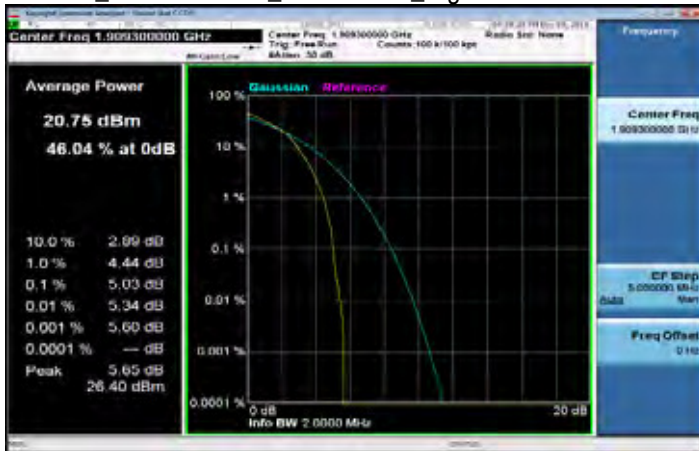
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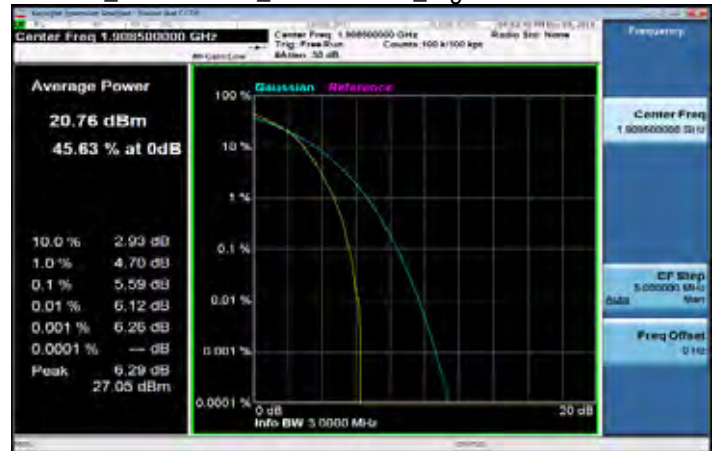
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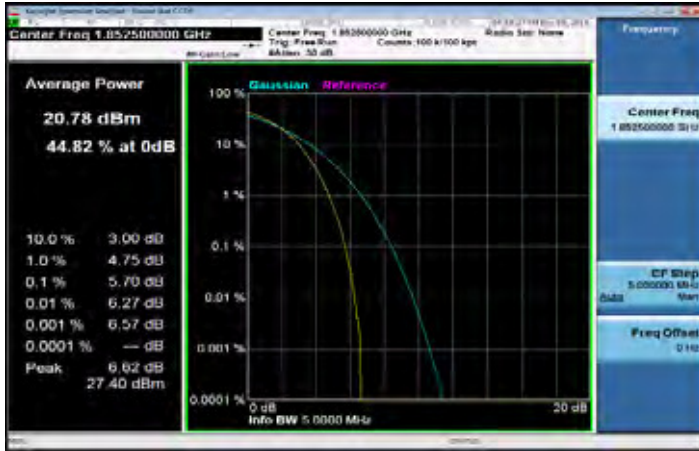
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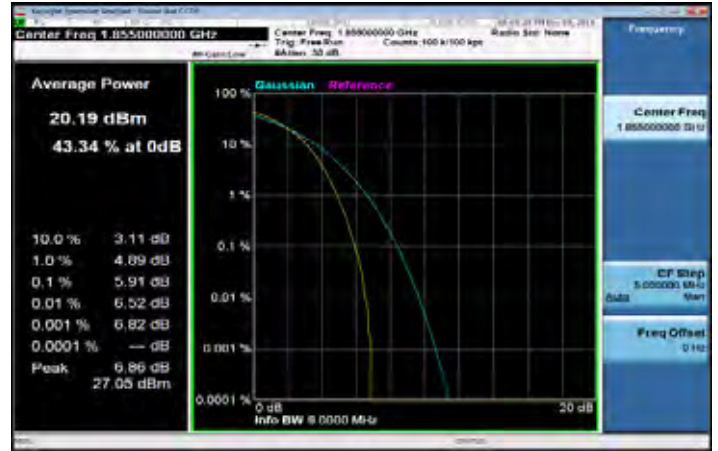
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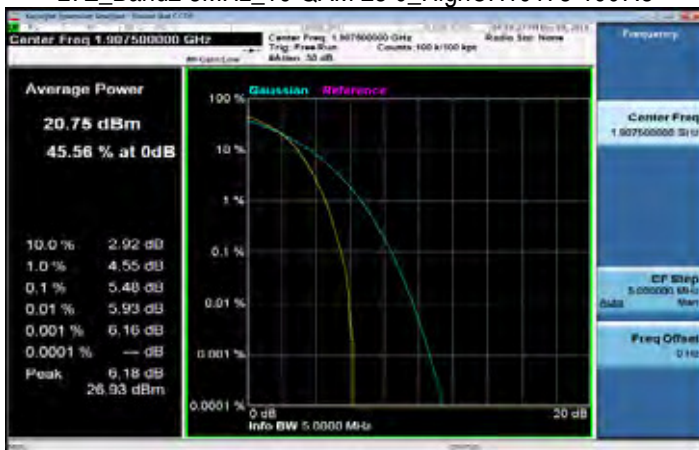
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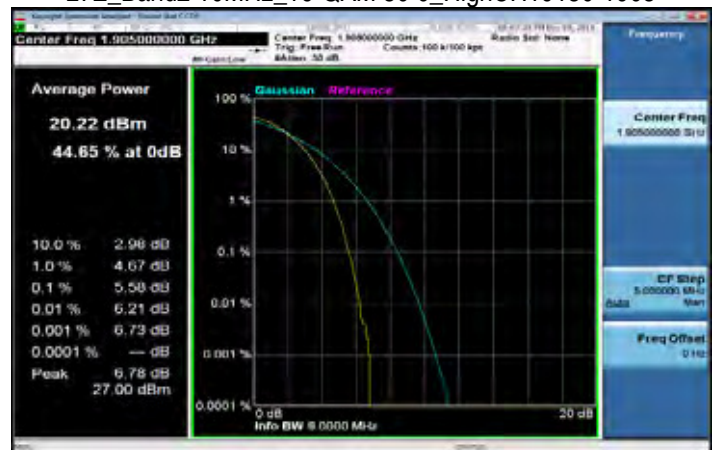
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LTE_Band2 10MHz_16-QAM 50 0_HighCH19150-1905



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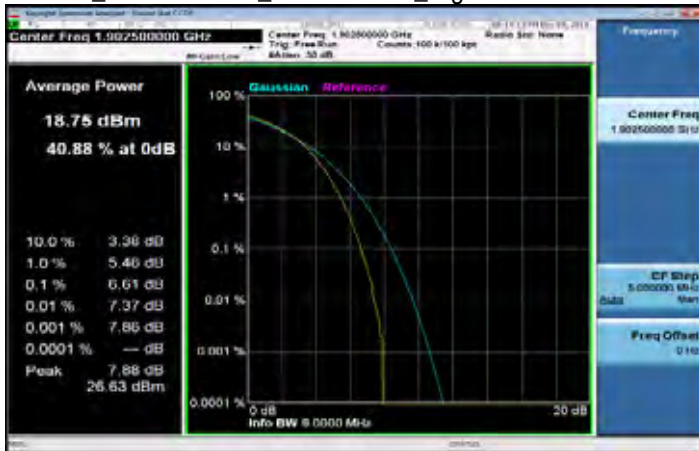
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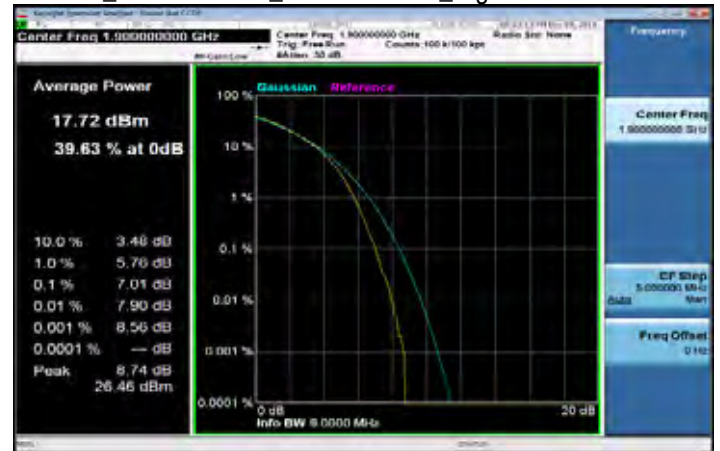
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LTE_Band2 20MHz_16-QAM 100 0_HighCH19100-1900



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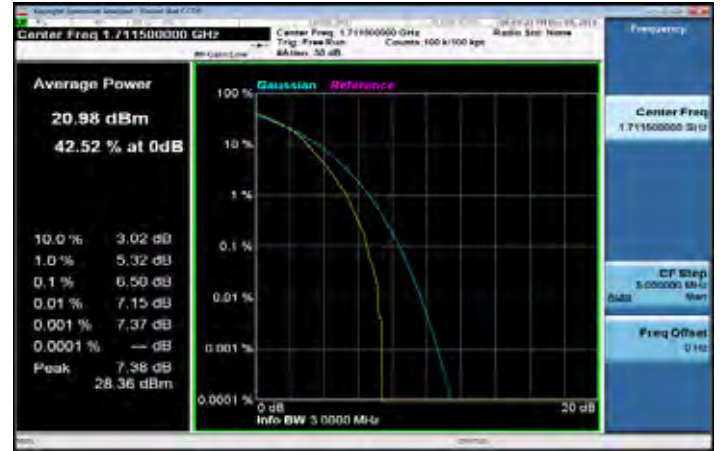
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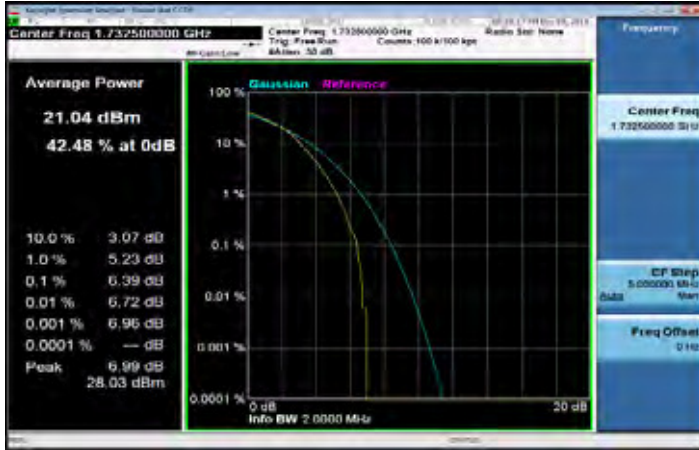
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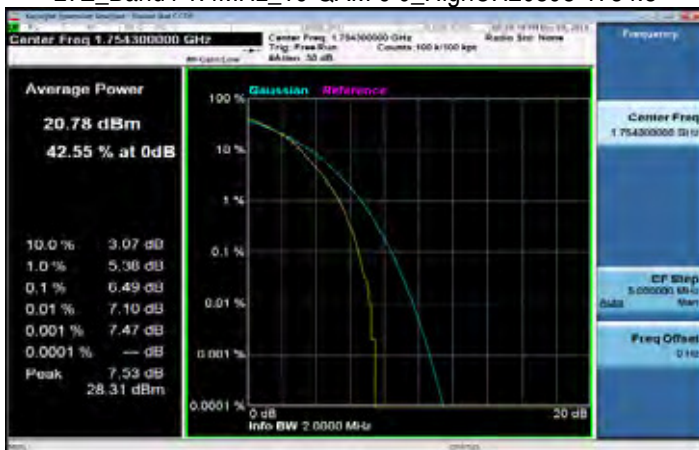
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LTE_Band4 3MHz_16-QAM 15 0_HighCH20385-1753.5



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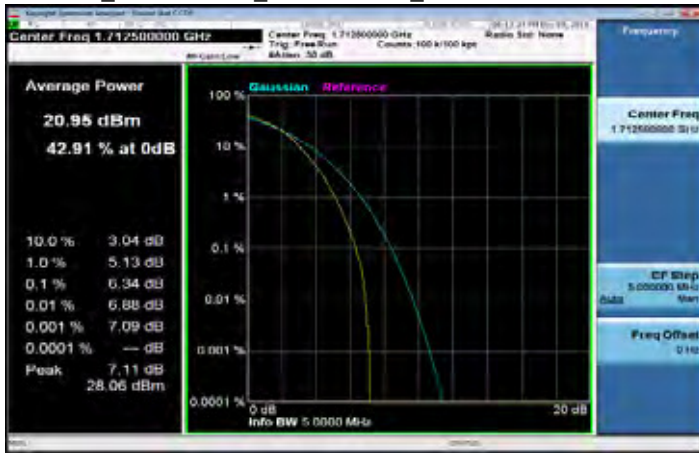
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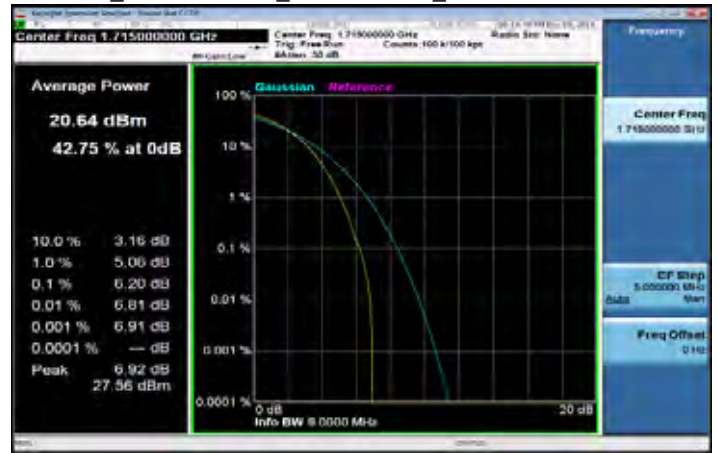
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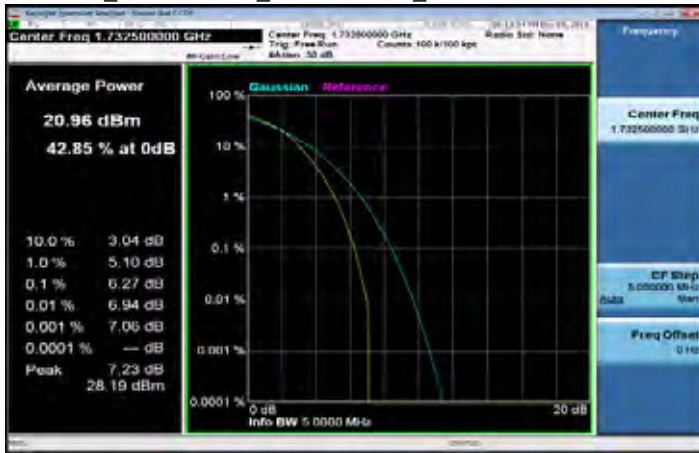
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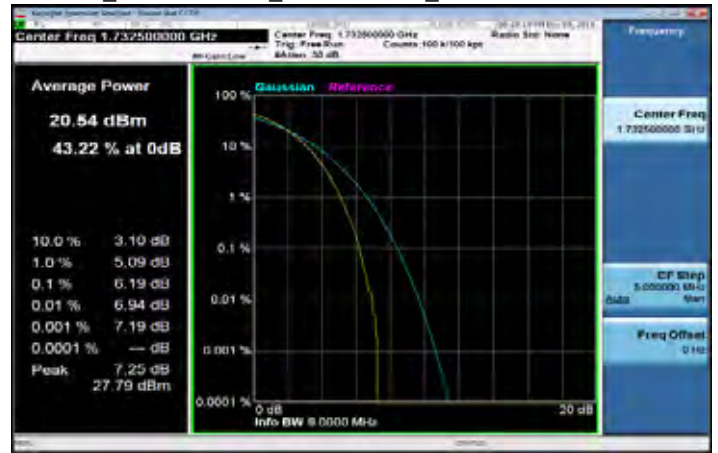
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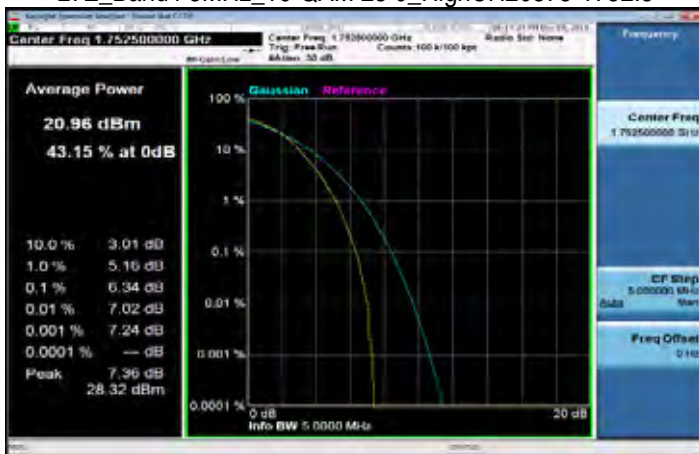
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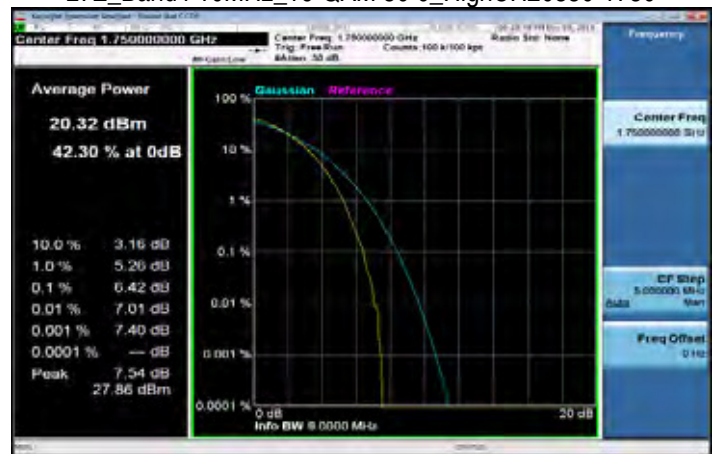
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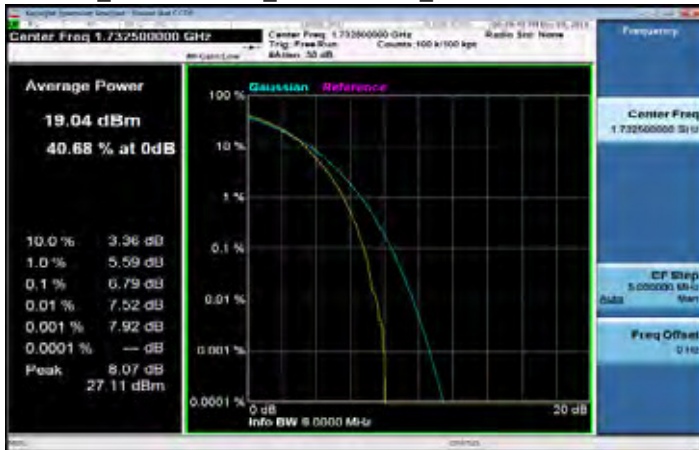
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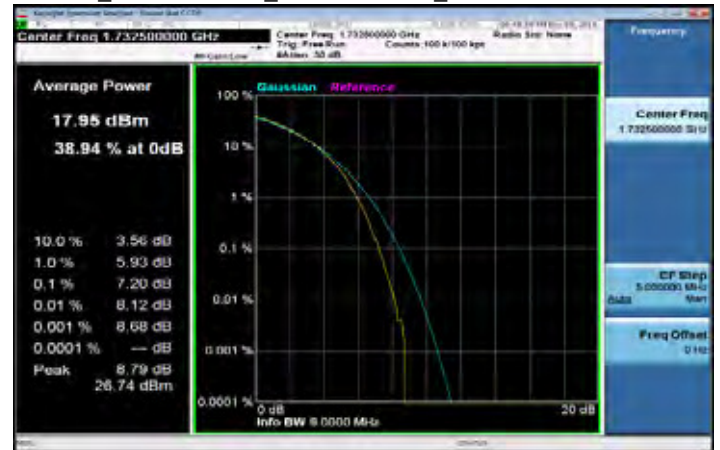
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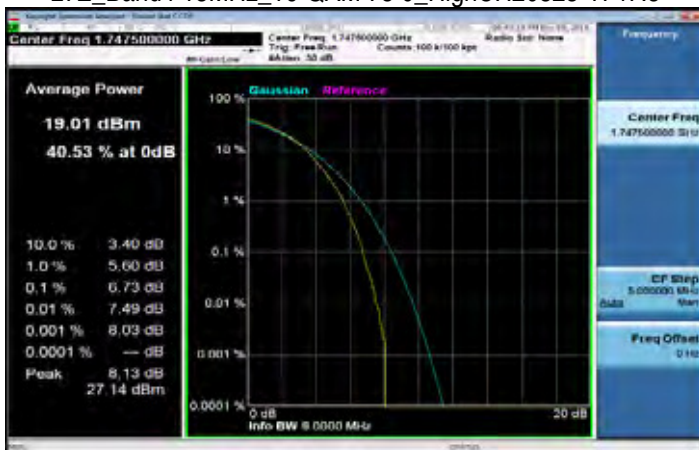
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LTE_Band4 20MHz_16-QAM 100 0_HighCH20300-1745



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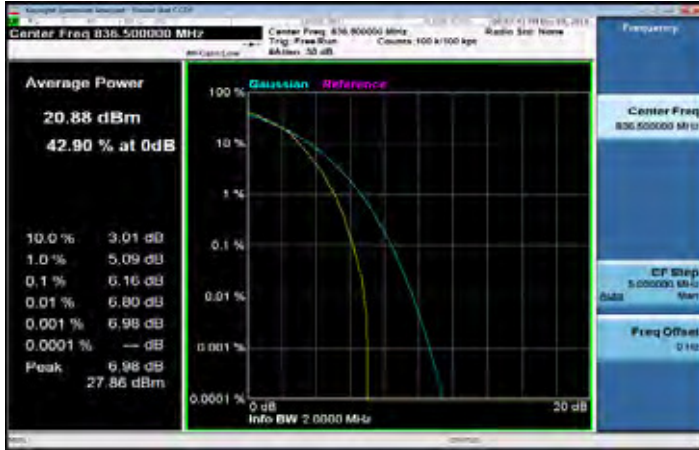
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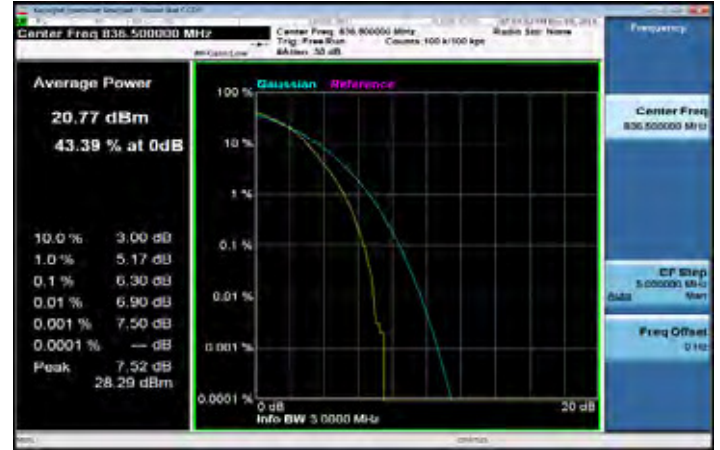
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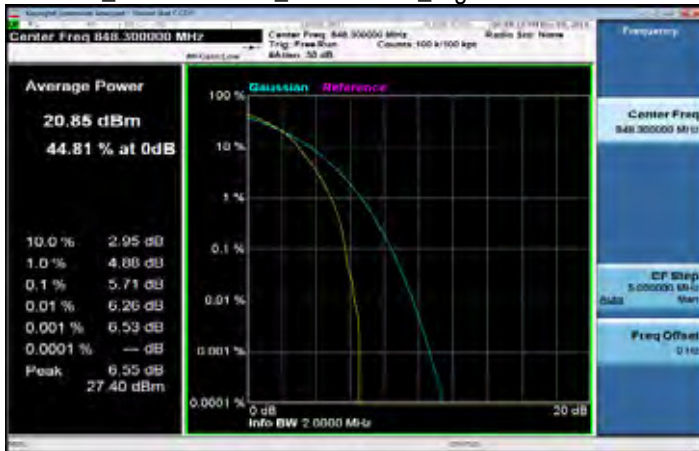
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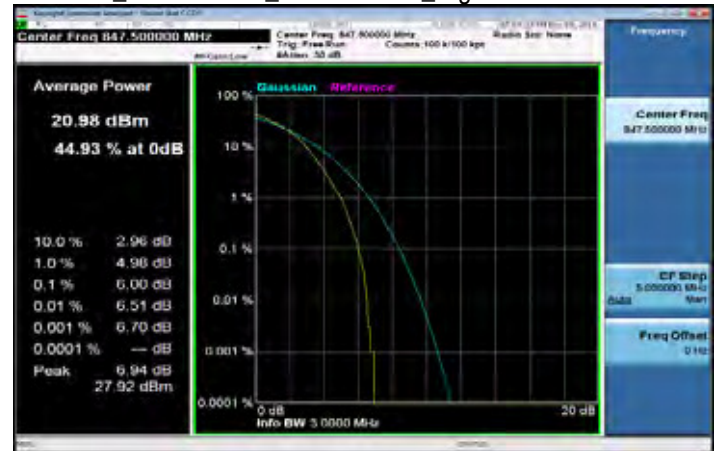
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LTE_Band5 3MHz_16-QAM 15 0_HighCH20635-847.5



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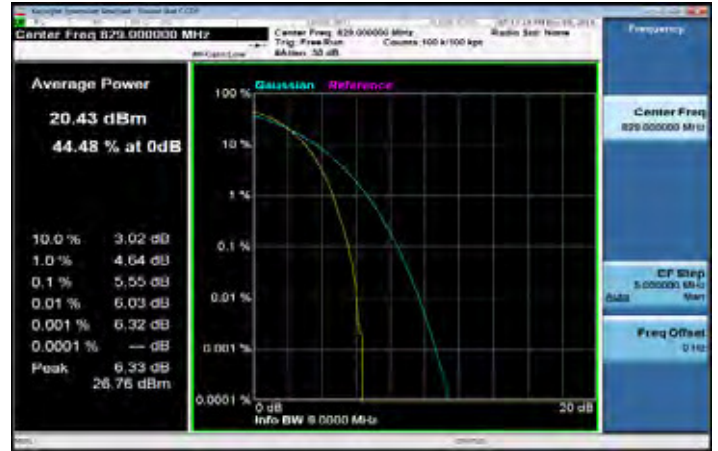
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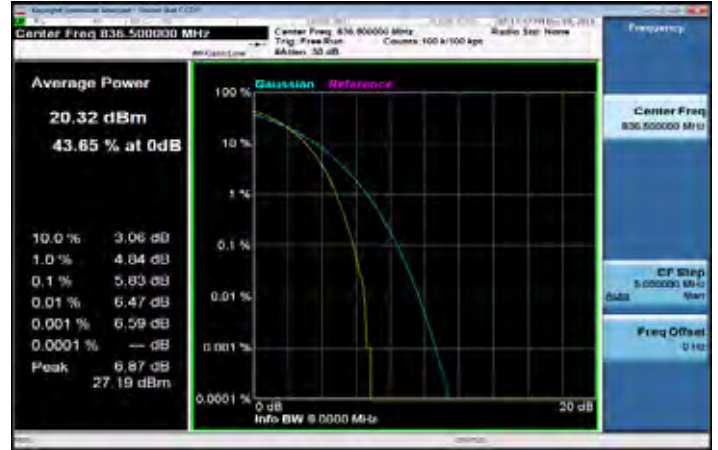
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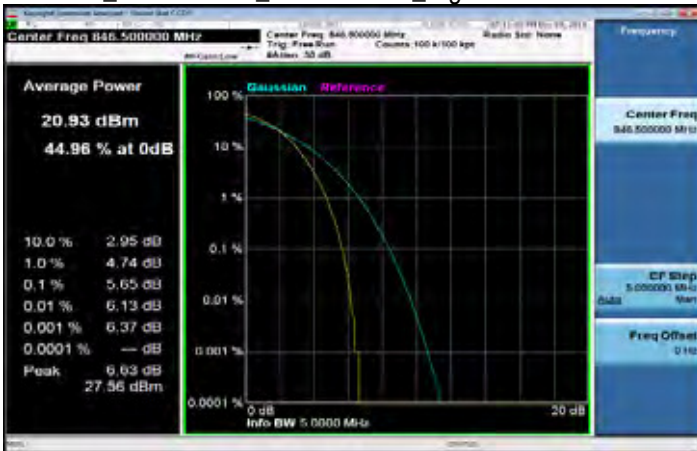
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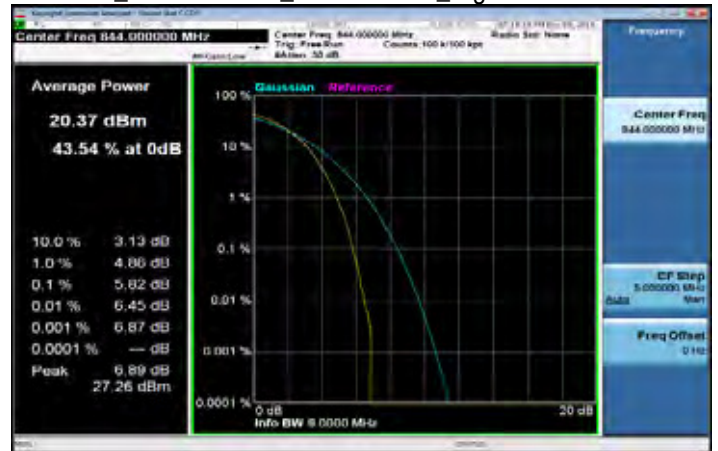
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LTE_Band5 5MHz_16-QAM 25 0_HighCH20625-846.5



LTE_Band5 10MHz_16-QAM 50 0_HighCH20600-844



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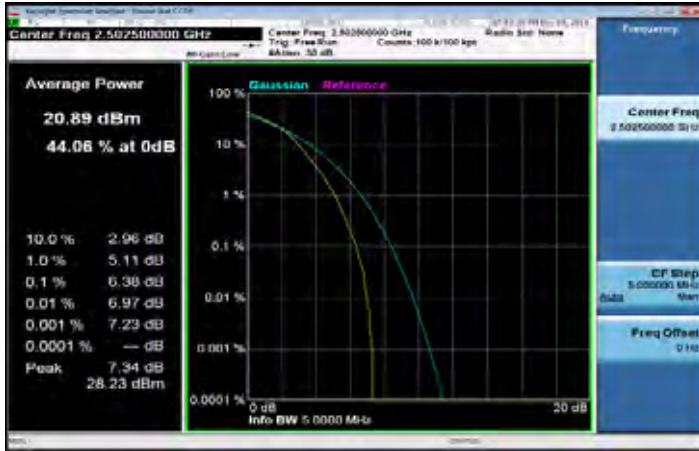
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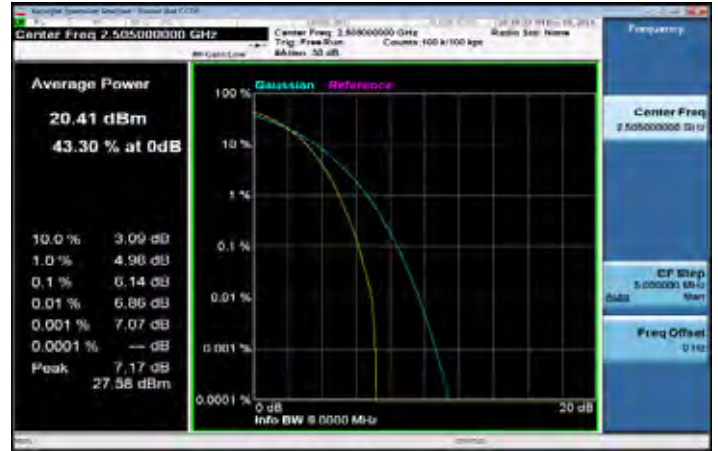
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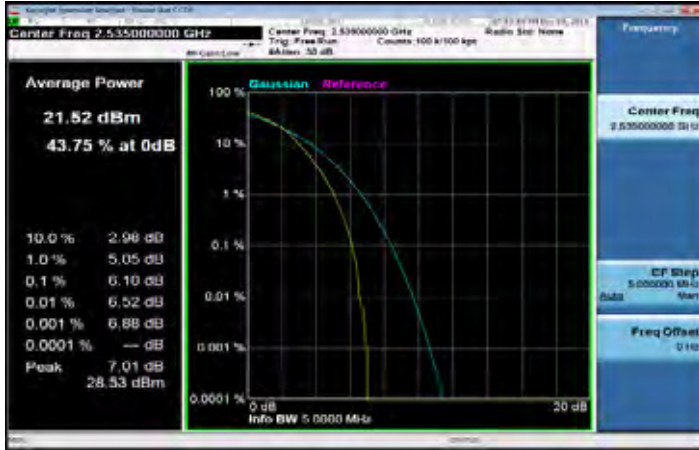
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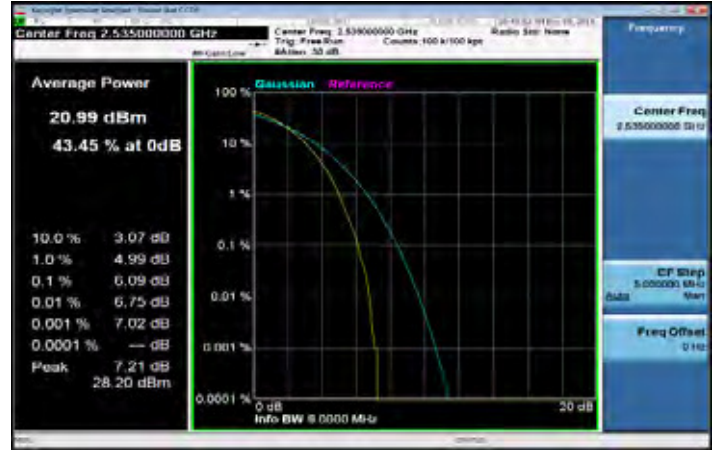
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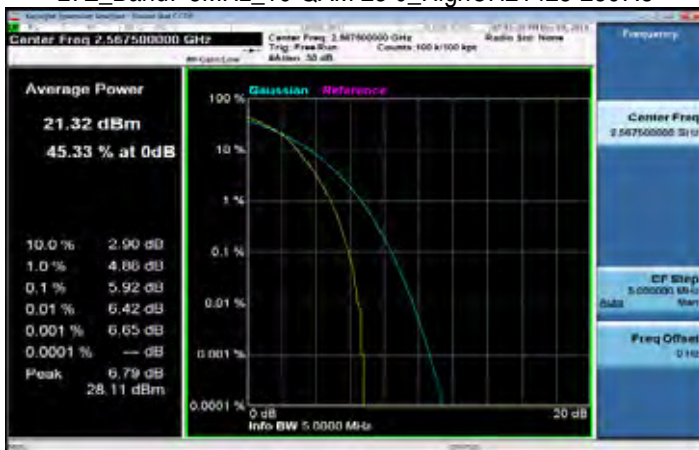
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LTE_Band7 5MHz_16-QAM 25 0_HighCH21425-2567.5



LTE_Band7 10MHz_16-QAM 50 0_HighCH21400-2565



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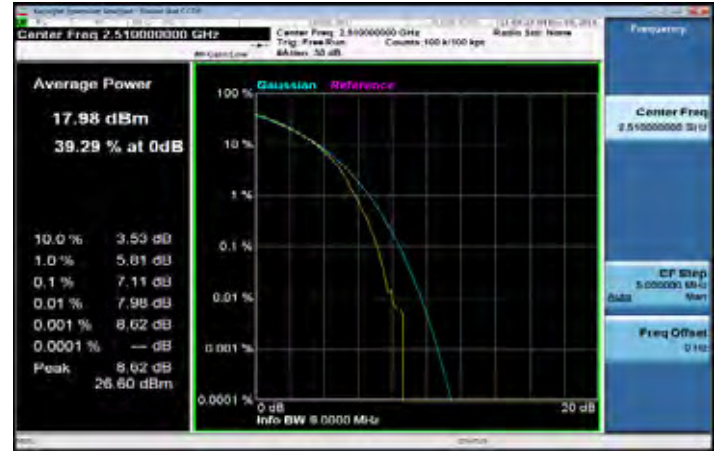
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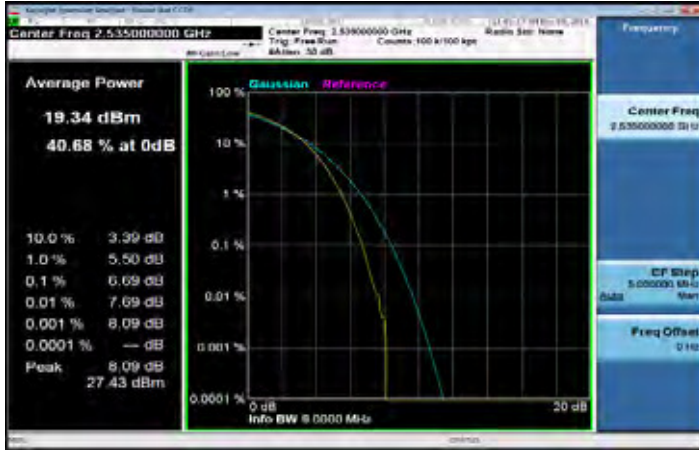
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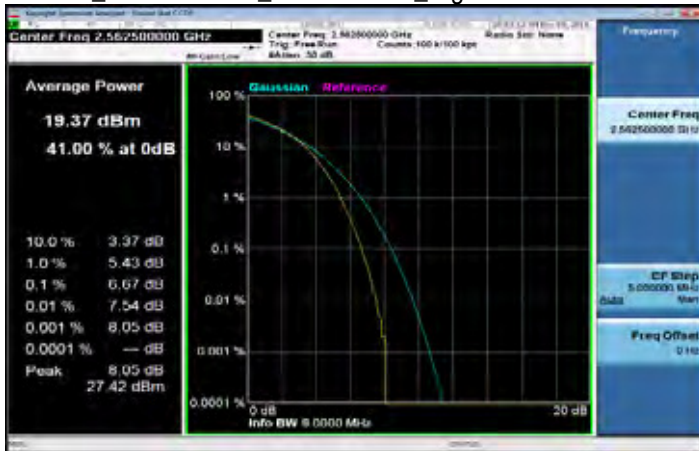
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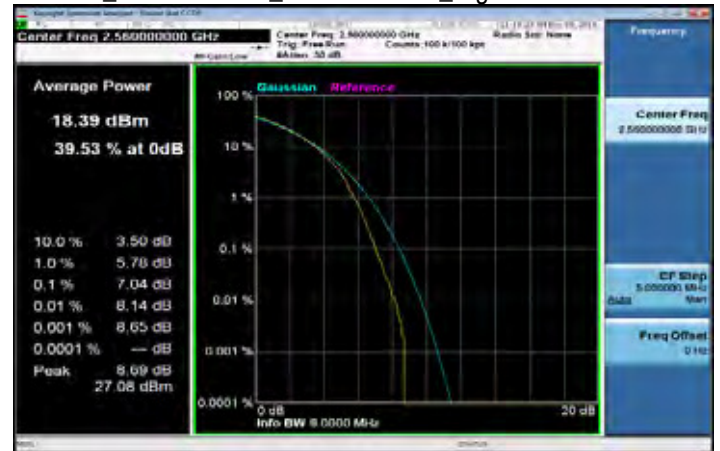
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LTE_Band7 15MHz_16-QAM 75 0_HighCH21375-2562.5



LTE_Band7 20MHz_16-QAM 100 0_HighCH21350-2560



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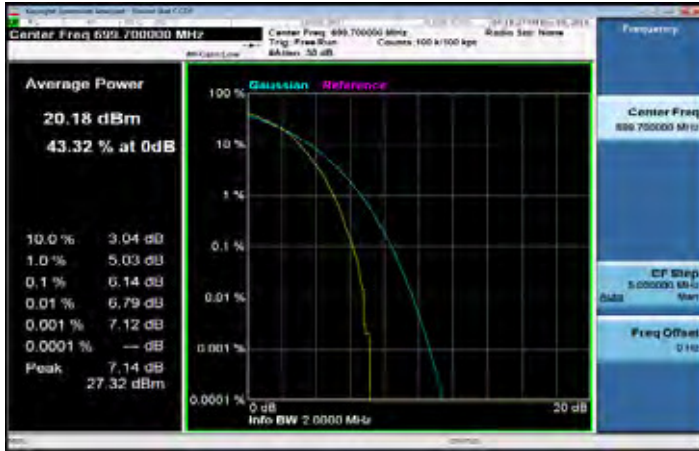
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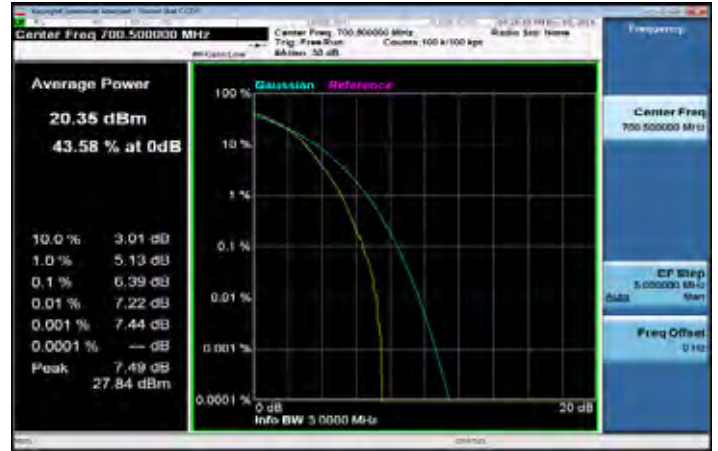
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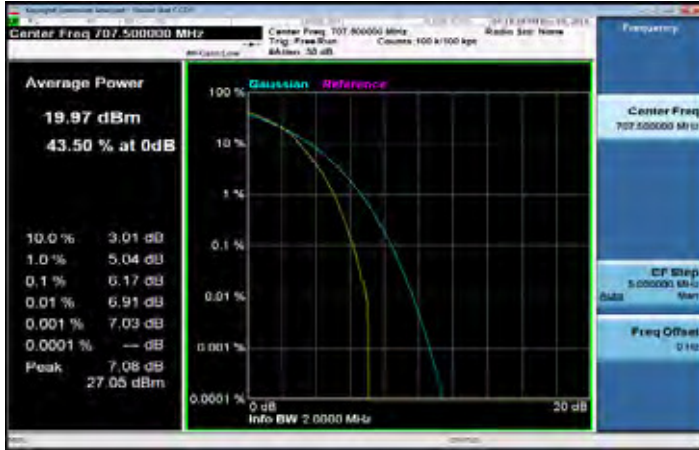
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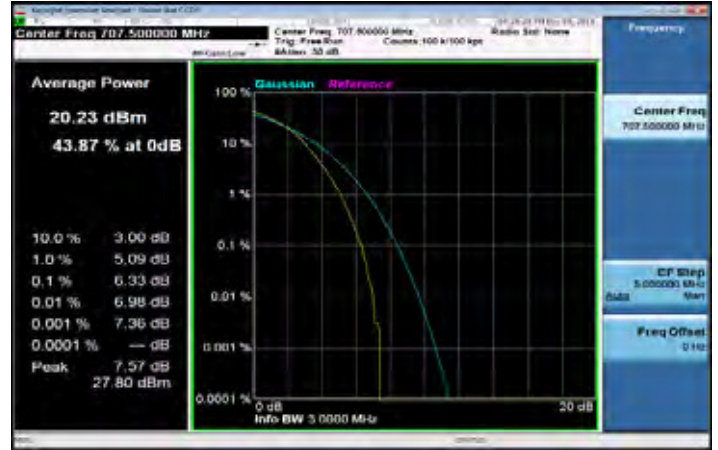
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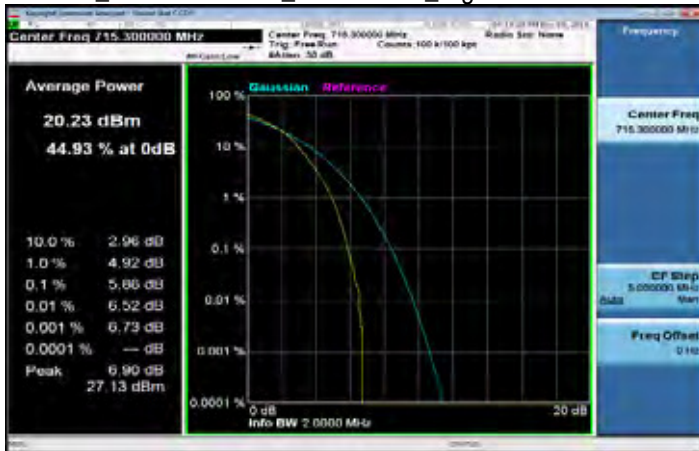
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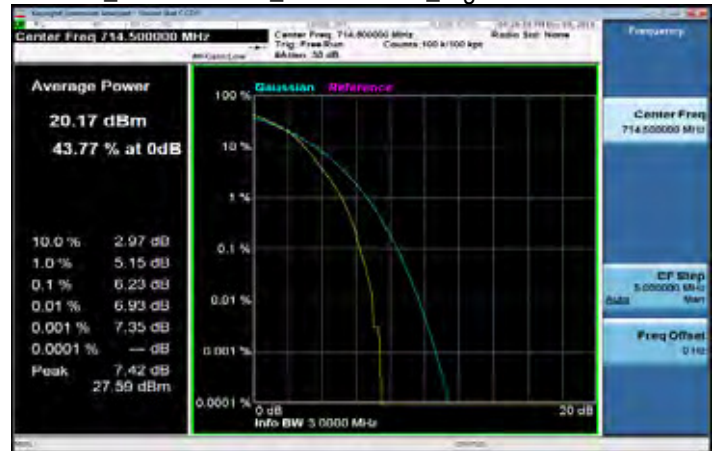
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LTE_Band12 1.4MHz_16-QAM 6 0_HighCH23173-715.3



LTE_Band12 3MHz_16-QAM 15 0_HighCH23165-714.5



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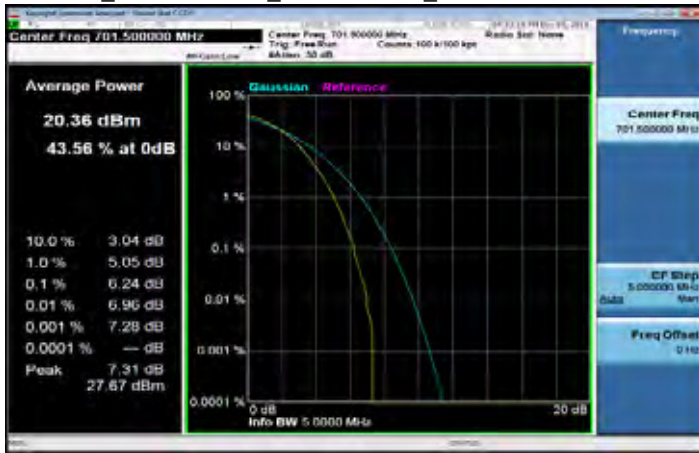
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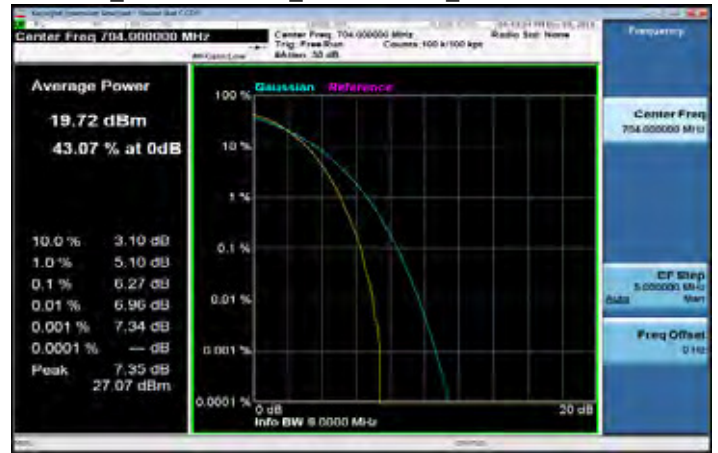
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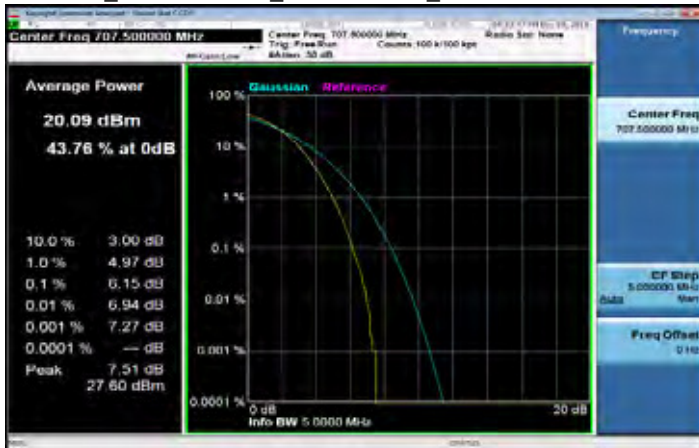
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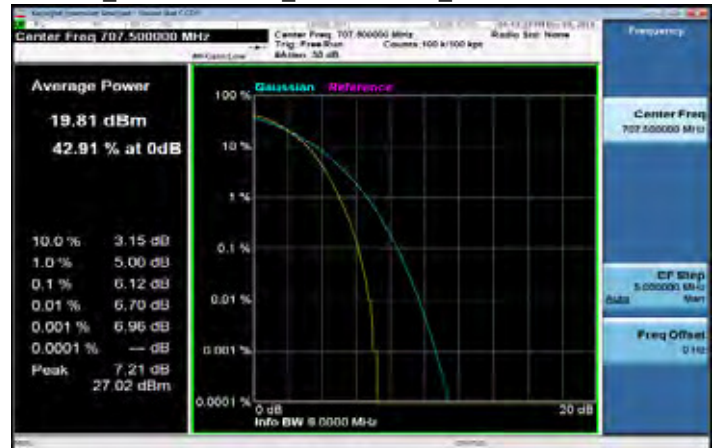
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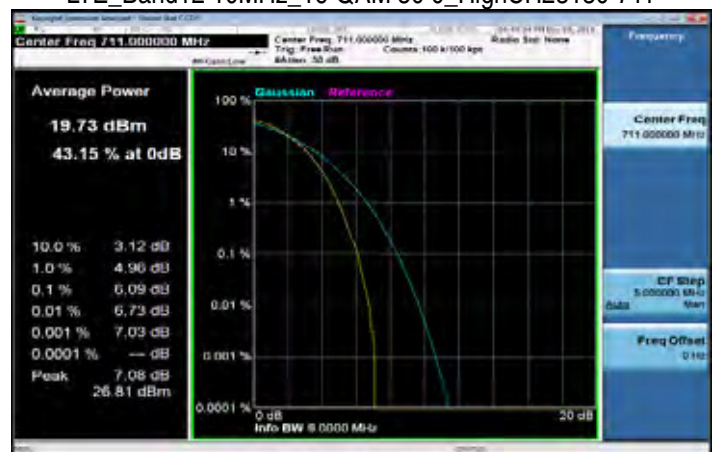
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LTE_Band12 5MHz_16-QAM 25 0_HighCH23155-713.5



LTE_Band12 10MHz_16-QAM 50 0_HighCH23130-711



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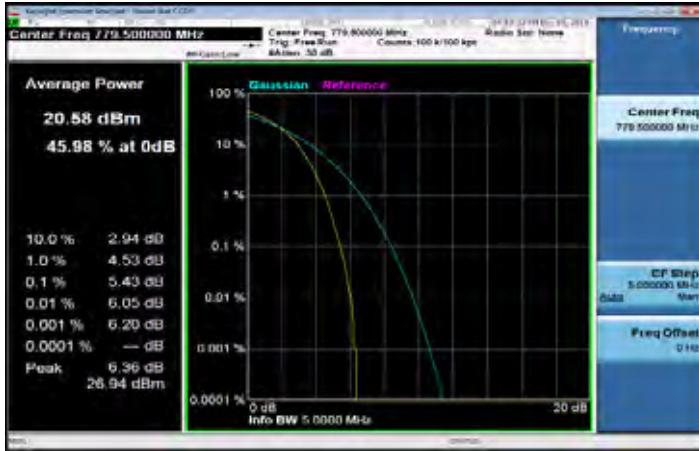
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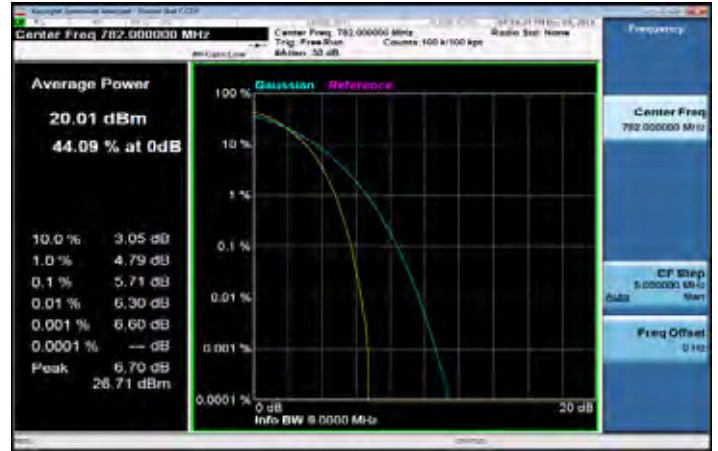
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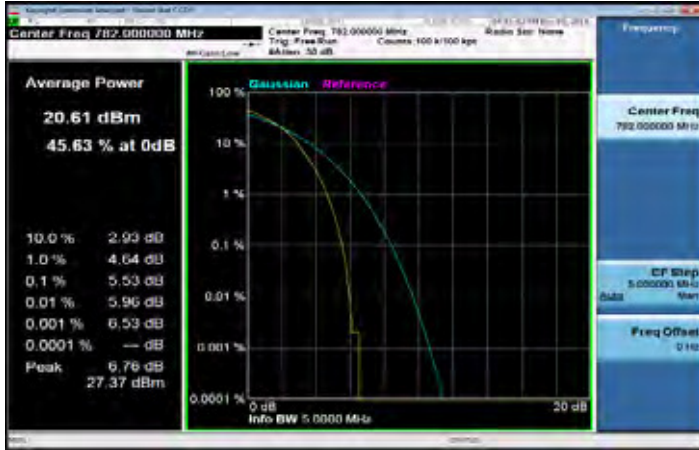
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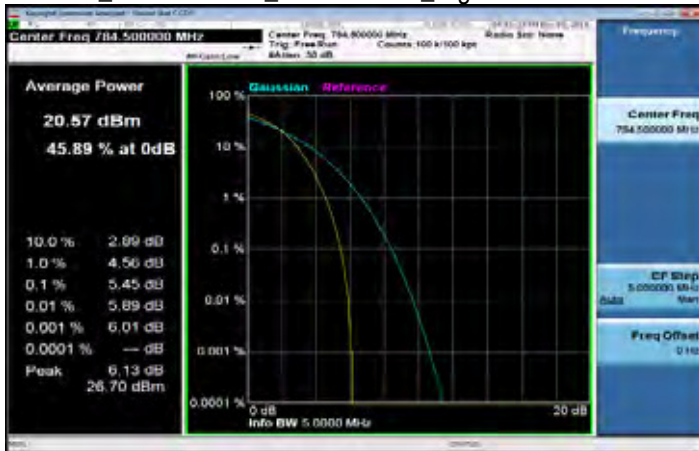
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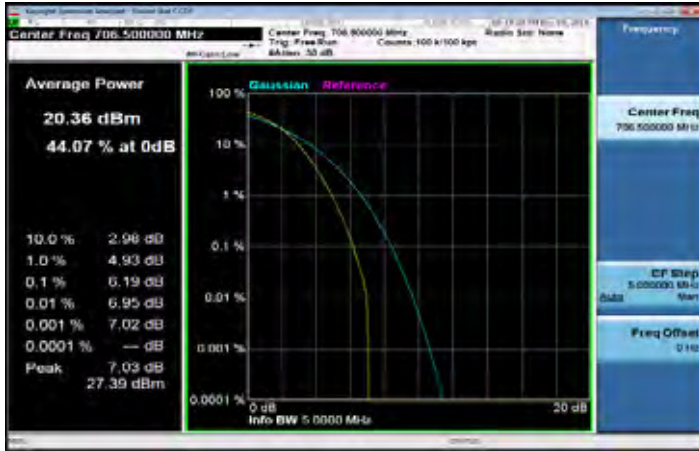
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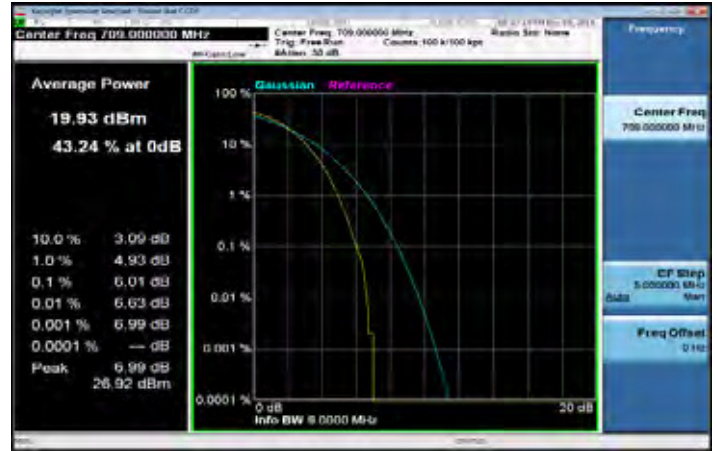
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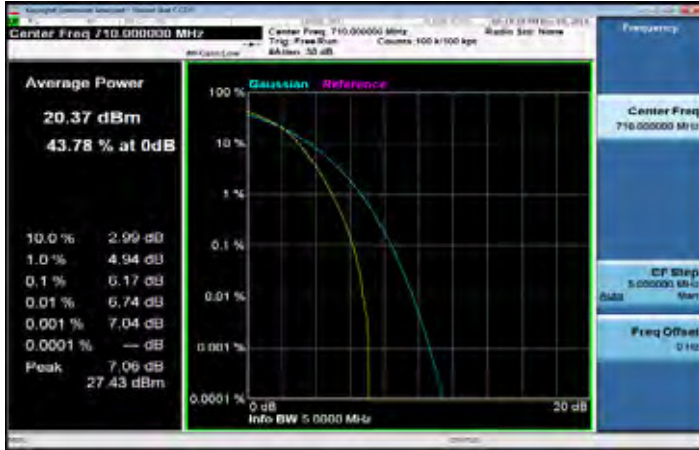
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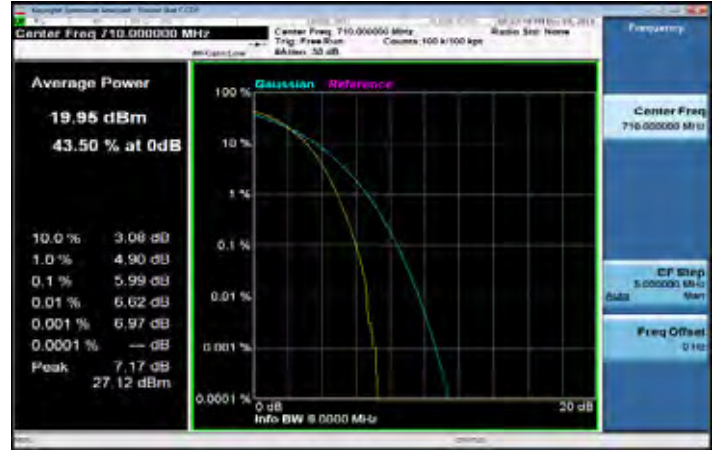
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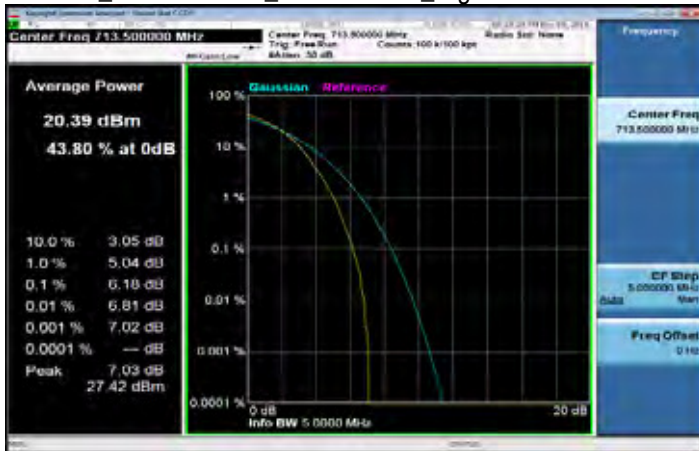
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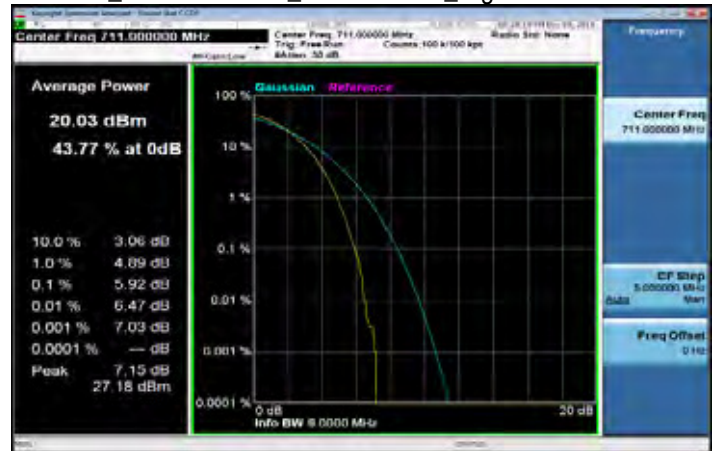
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LTE_Band17 10MHz_16-QAM 50 0_HighCH23800-711



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