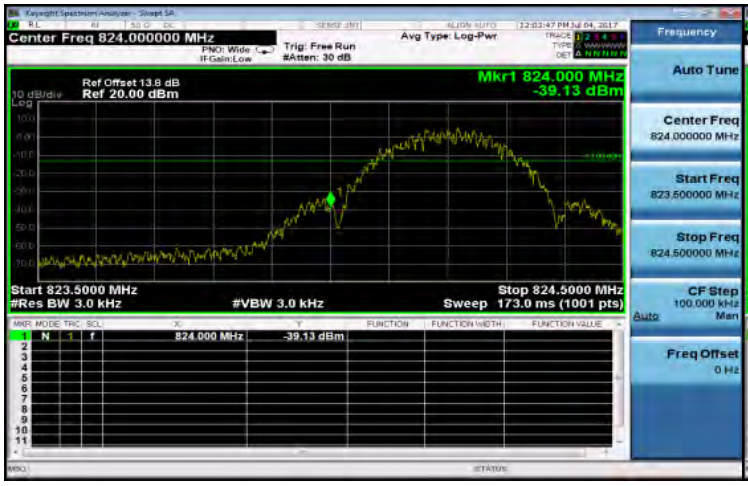
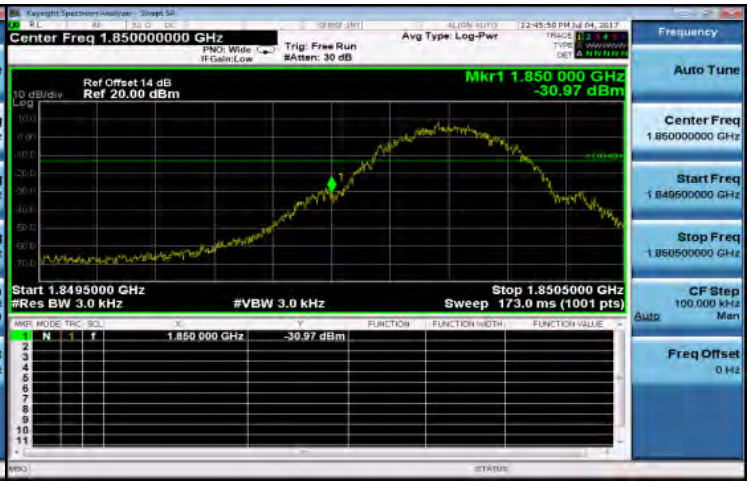
Band Edge_EDGE_850MHz_LowCH128-824.2



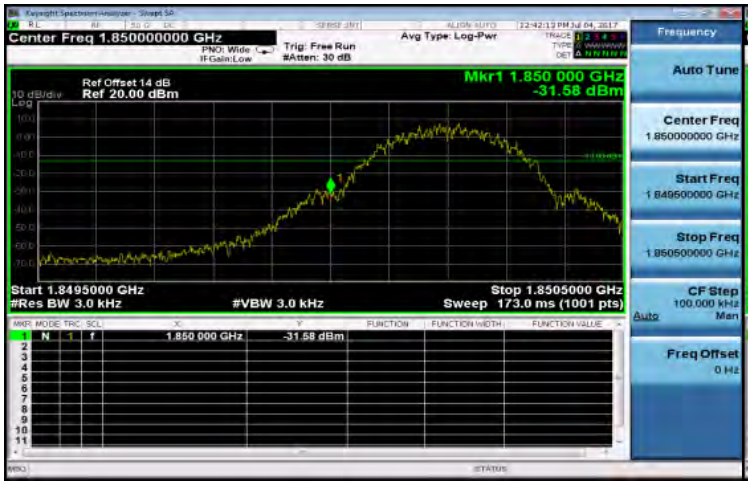
Band Edge_GSM_1900MHz_HighCH810-1909.8

Band Edge_EDGE_850MHz_HighCH251-848.8

Band Edge_GPRS_1900MHz_LowCH512-1850.2



Band Edge_GSM_1900MHz_LowCH512-1850.2



Band Edge_GPRS_1900MHz_HighCH810-1909.8

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Band Edge_EDGE_1900MHz_LowCH512-1850.2

Band Edge_WCDMA_B2_HighCH9538-1907.6

Band Edge_EDGE_1900MHz_HighCH810-1909.8

Band Edge_WCDMA_B5_LowCH4132-826.4

Band Edge_WCDMA_B2_LowCH9262-1852.4

Band Edge_WCDMA_B5_HighCH4233-846.6

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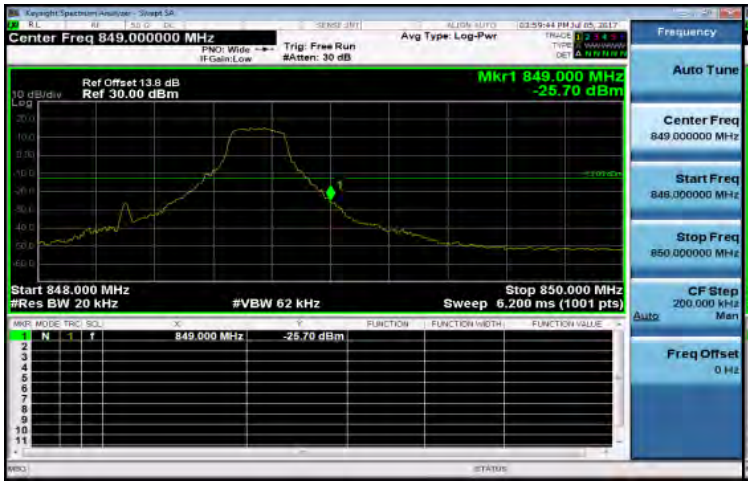
Band Edge_Band5 1.4MHz_QPSK 1 0_LowCH20407-824.7

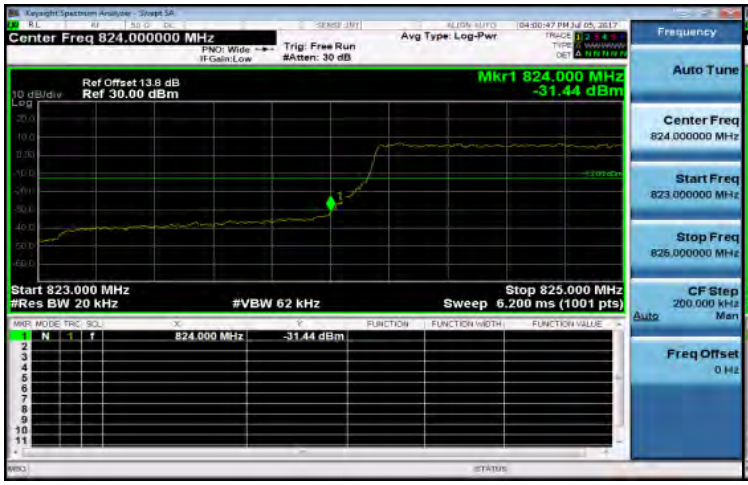
Band Edge_Band5 1.4MHz_QPSK 6 0_HighCH20643-848.3

Band Edge_Band5 1.4MHz_QPSK 1 5_HighCH20643-848.3



Band Edge_Band5 3MHz_QPSK 1 0_LowCH20415-825.5

Band Edge_Band5 1.4MHz_QPSK 6 0_LowCH20407-824.7



Band Edge_Band5 3MHz_QPSK 1 14_HighCH20635-847.5

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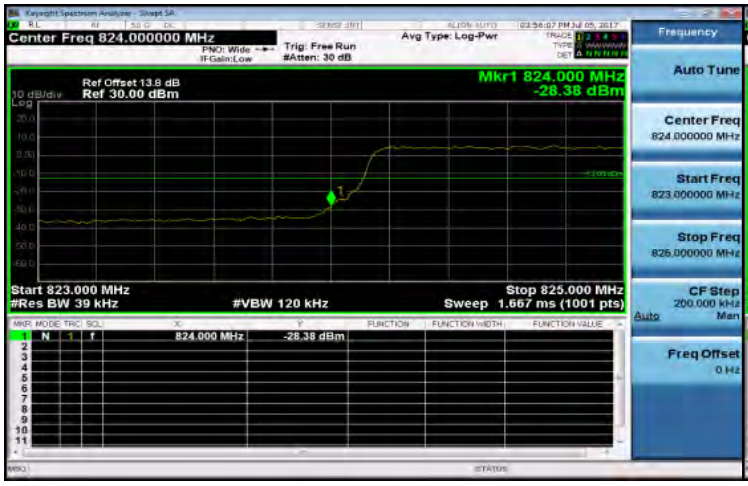
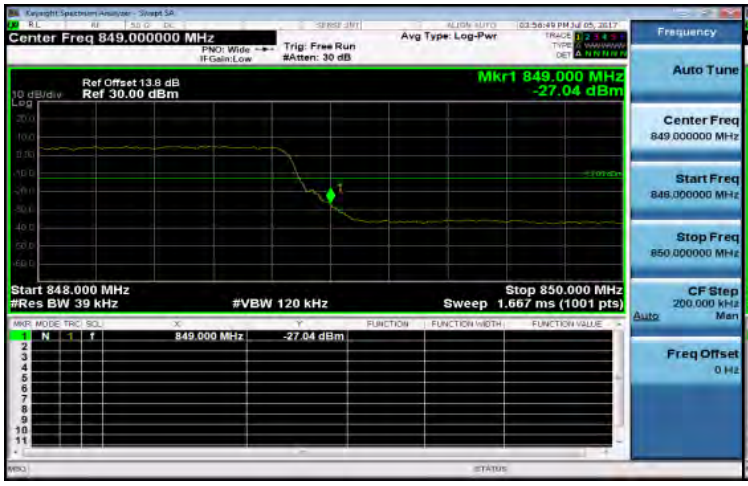
Band Edge_Band5 3MHz_QPSK 15 0_LowCH20415-825.5



Band Edge_Band5 5MHz_QPSK 1 24_HighCH20625-846.5

Band Edge_Band5 3MHz_QPSK 15 0_HighCH20635-847.5



Band Edge_Band5 5MHz_QPSK 25 0_LowCH20425-826.5

Band Edge_Band5 5MHz_QPSK 1 0_LowCH20425-826.5

Band Edge_Band5 5MHz_QPSK 25 0_HighCH20625-846.5

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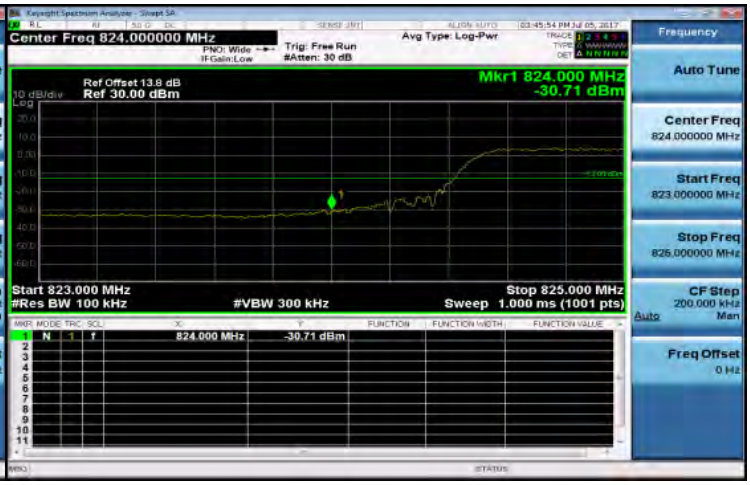
Band Edge_Band5 10MHz_QPSK 1 0_LowCH20450-829

Band Edge_Band5 10MHz_QPSK 50 0_LowCH20450-829



Band Edge_Band5 10MHz_QPSK 1 49_HighCH20600-844

Band Edge_Band5 10MHz_QPSK 50 0_HighCH20600-844

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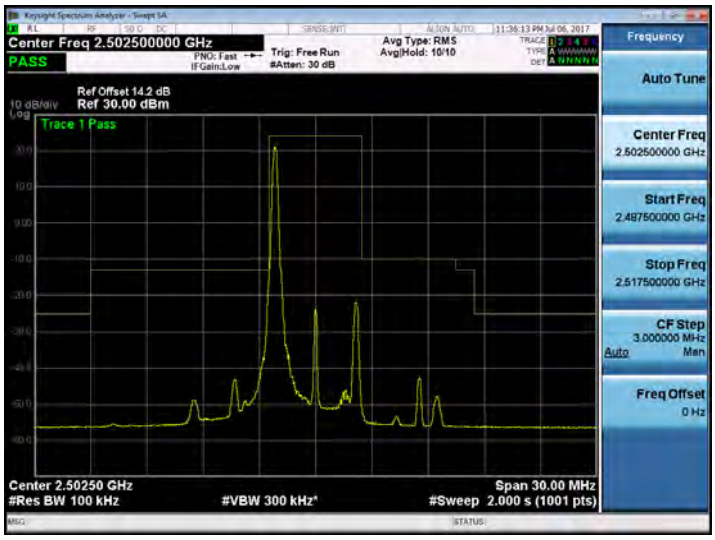
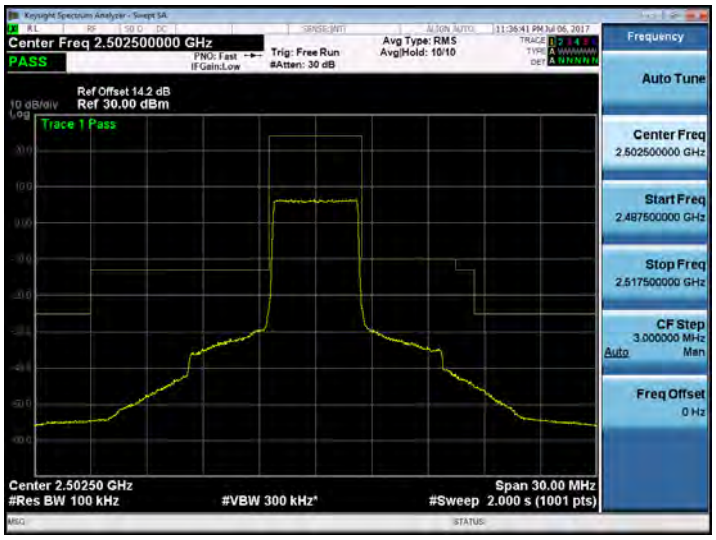
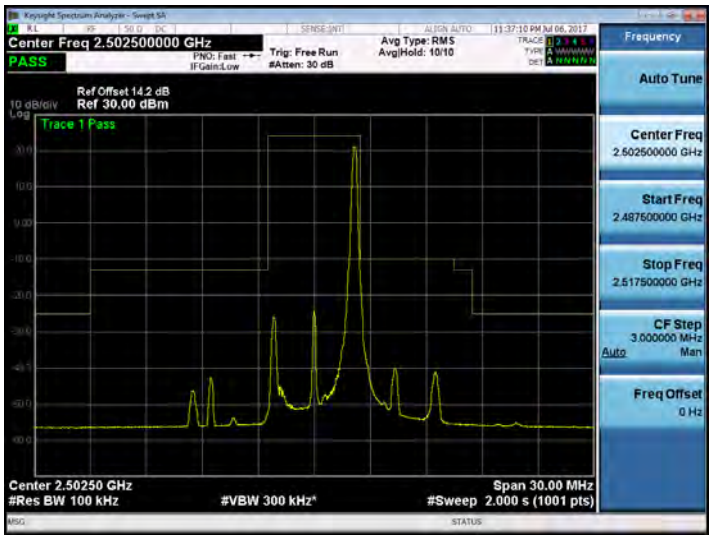
Emission Mask_Band 7_5M_QPSK_LOW_RB1,0



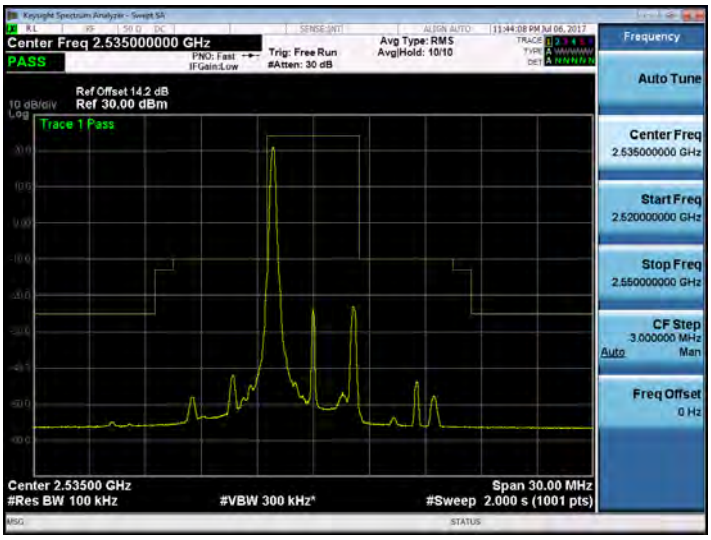
Emission Mask_Band 7_5M_QPSK_LOW_RB25,0



Emission Mask_Band 7_5M_QPSK_LOW_RB1,24



Emission Mask_Band 7_5M_QPSK_MID_RB1,0



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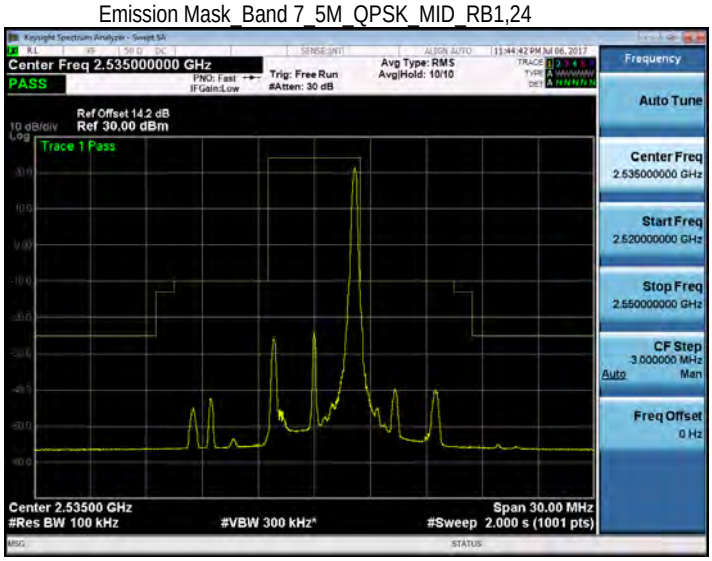
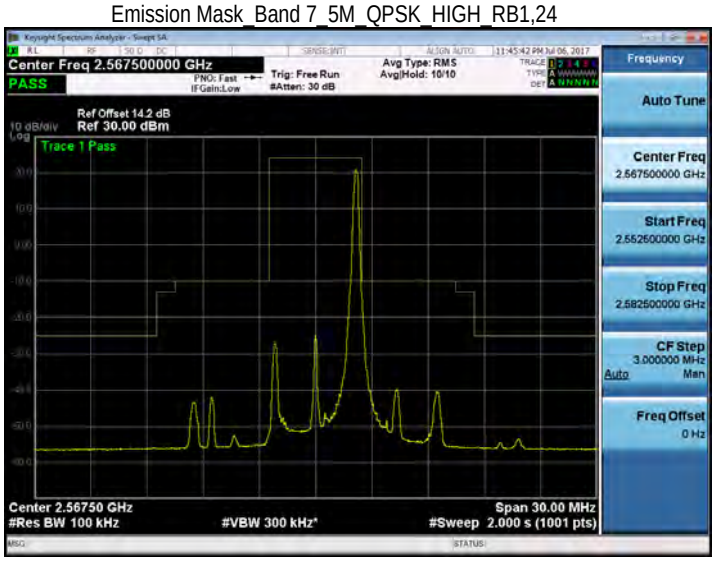
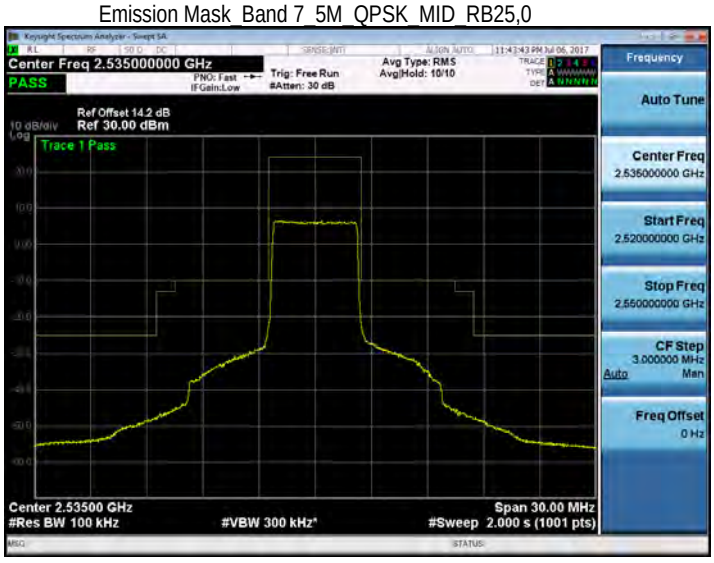
Emission Mask_Band 7_5M_QPSK_MID_RB1,24



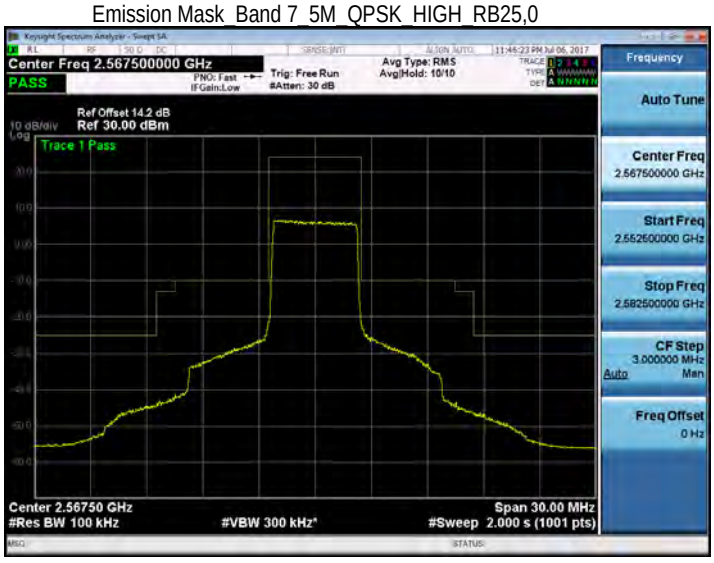
Emission Mask_Band 7_5M_QPSK_HIGH_RB1,24



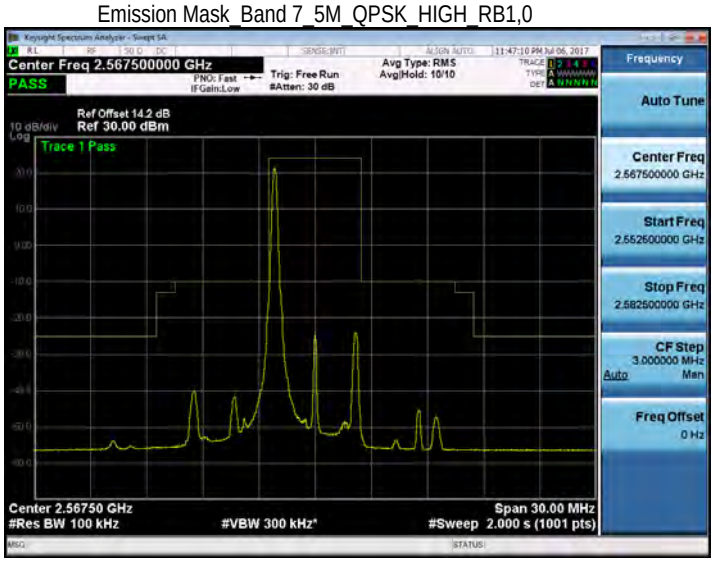
Emission Mask_Band 7_5M_QPSK_MID_RB25,0



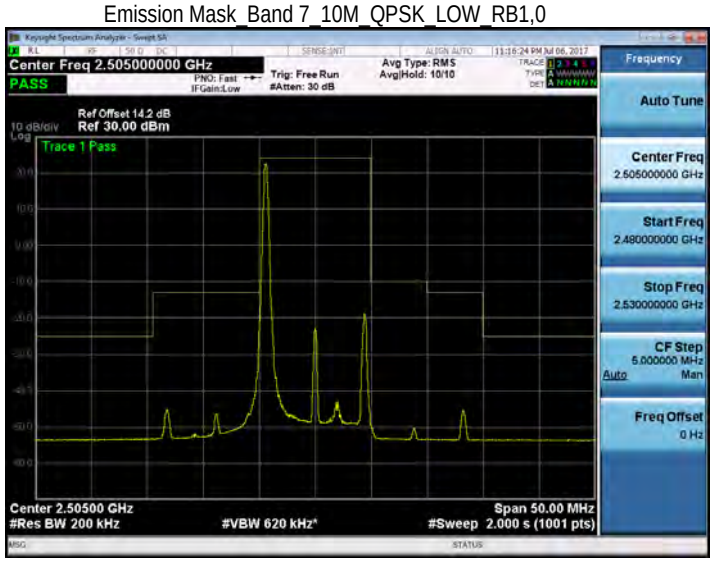
Emission Mask_Band 7_5M_QPSK_HIGH_RB25,0



Emission Mask_Band 7_5M_QPSK_HIGH_RB1,0



Emission Mask_Band 7_10M_QPSK_LOW_RB1,0



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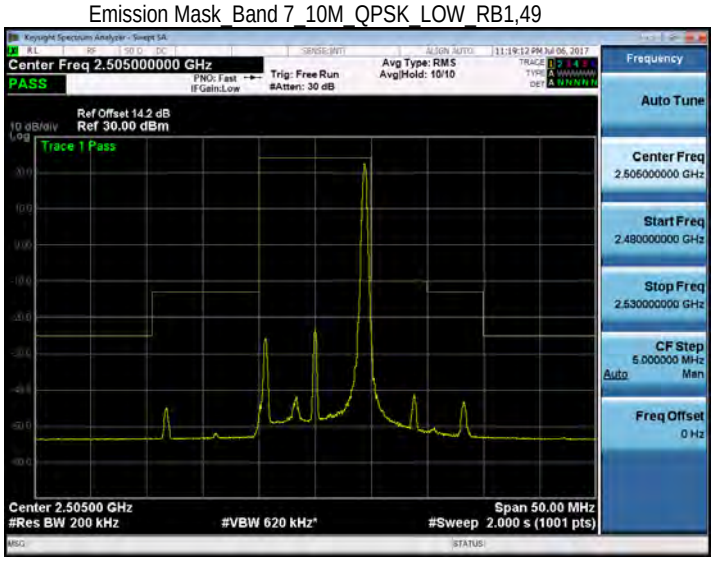
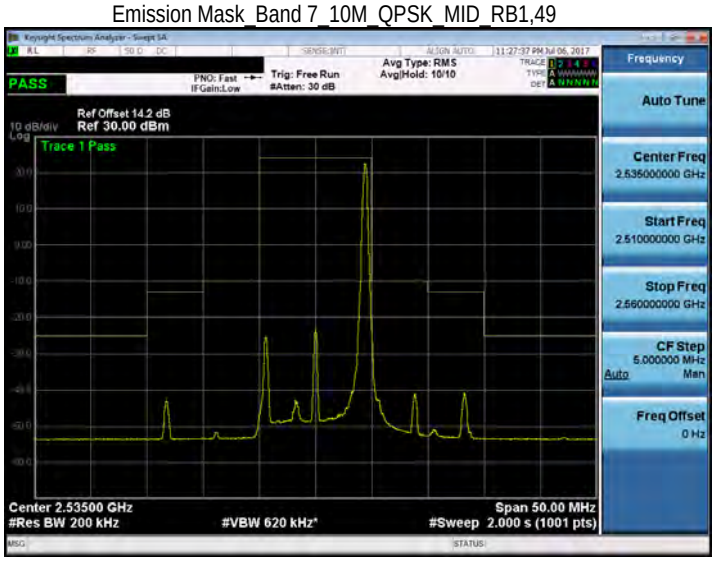
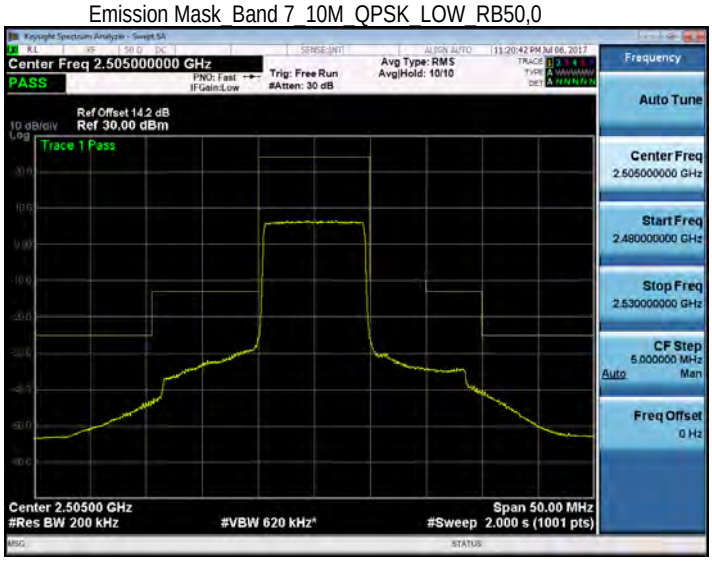
Emission Mask_Band 7_10M_QPSK_LOW_RB1,49



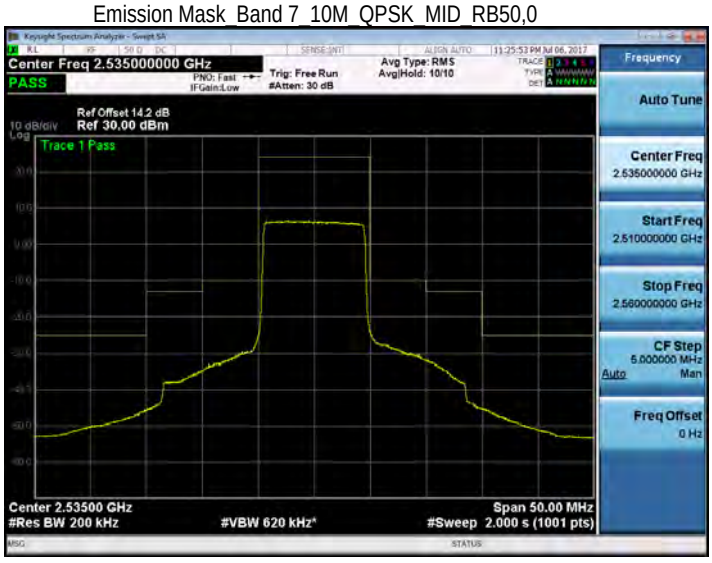
Emission Mask_Band 7_10M_QPSK_MID_RB1,49



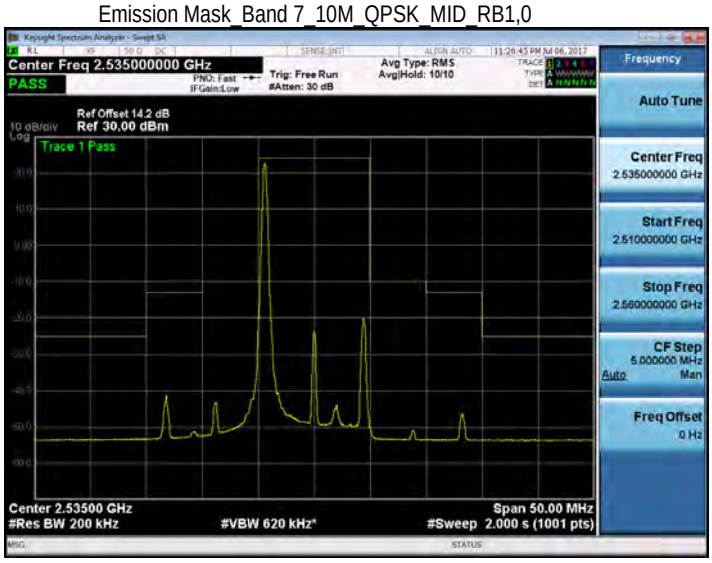
Emission Mask_Band 7_10M_QPSK_LOW_RB50,0



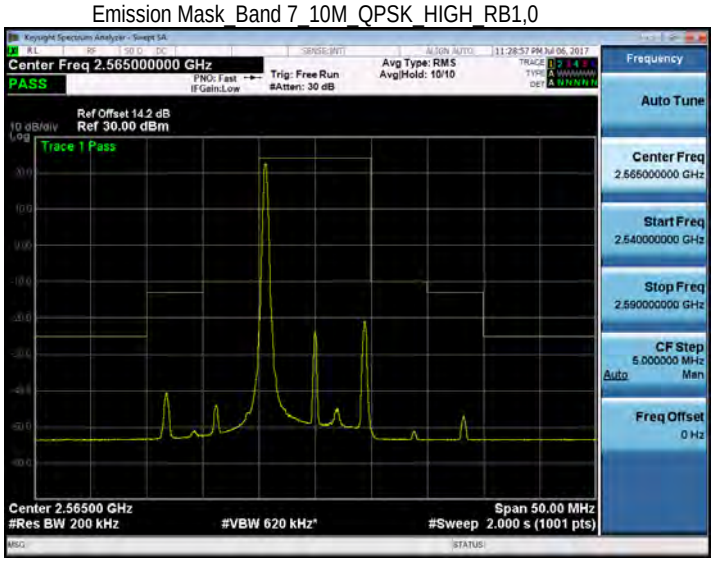
Emission Mask_Band 7_10M_QPSK_MID_RB50,0



Emission Mask_Band 7_10M_QPSK_MID_RB1,0



Emission Mask_Band 7_10M_QPSK_HIGH_RB1,0



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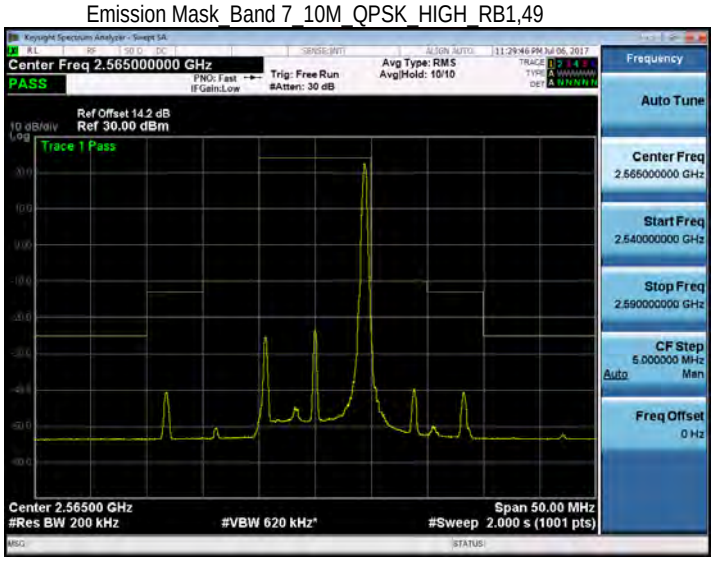
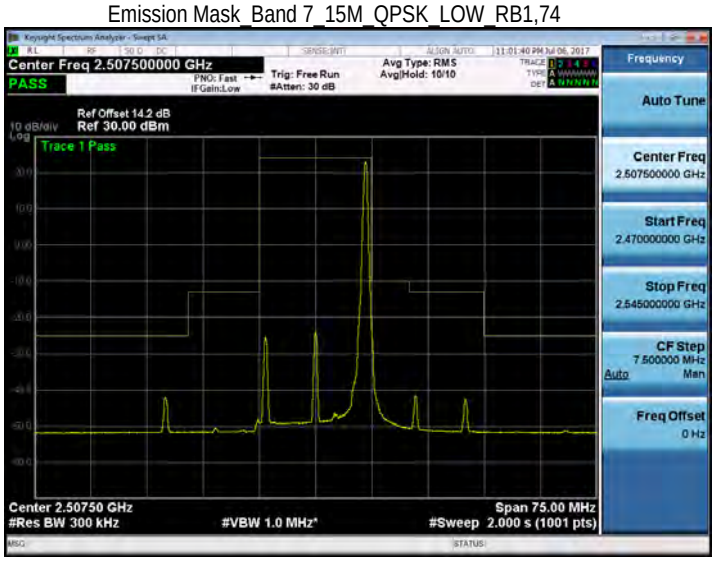
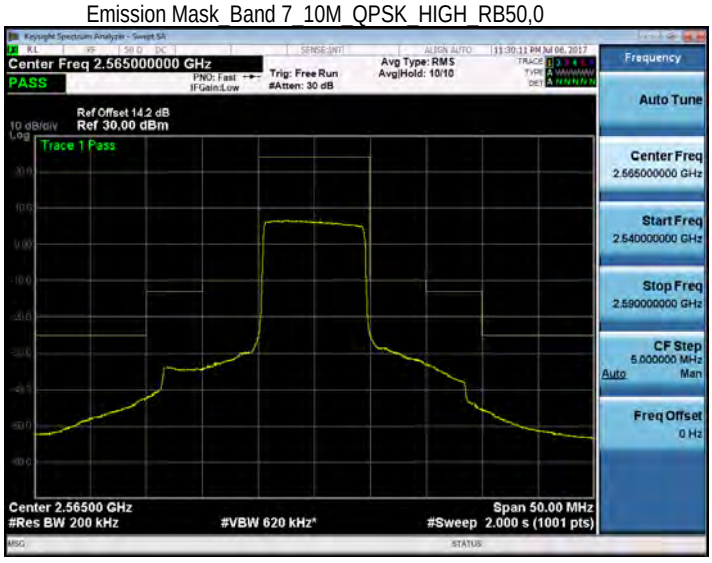
Emission Mask_Band 7_10M_QPSK_HIGH_RB1,49



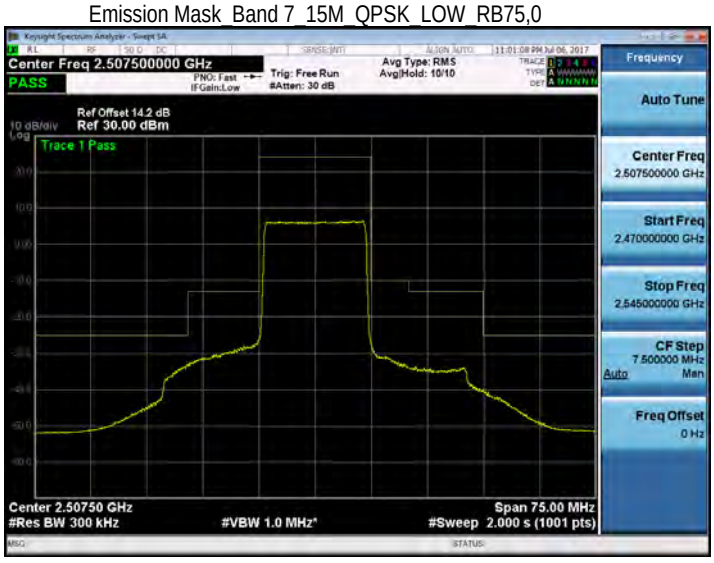
Emission Mask_Band 7_15M_QPSK_LOW_RB1,74



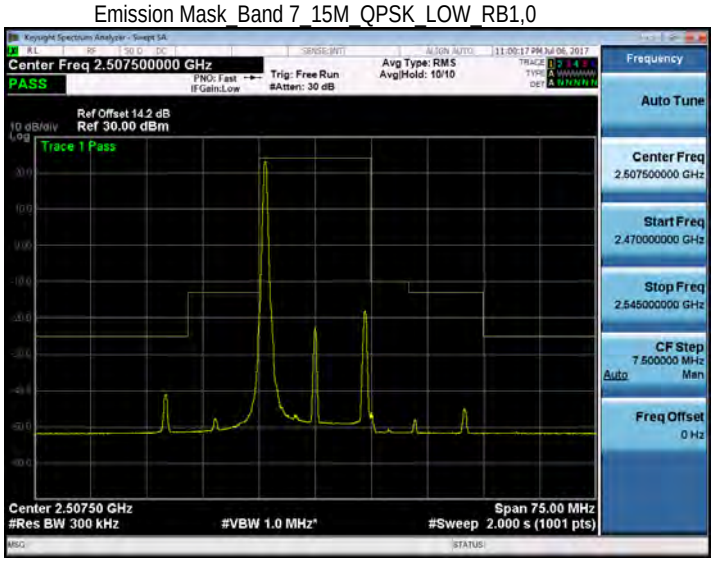
Emission Mask_Band 7_10M_QPSK_HIGH_RB50,0



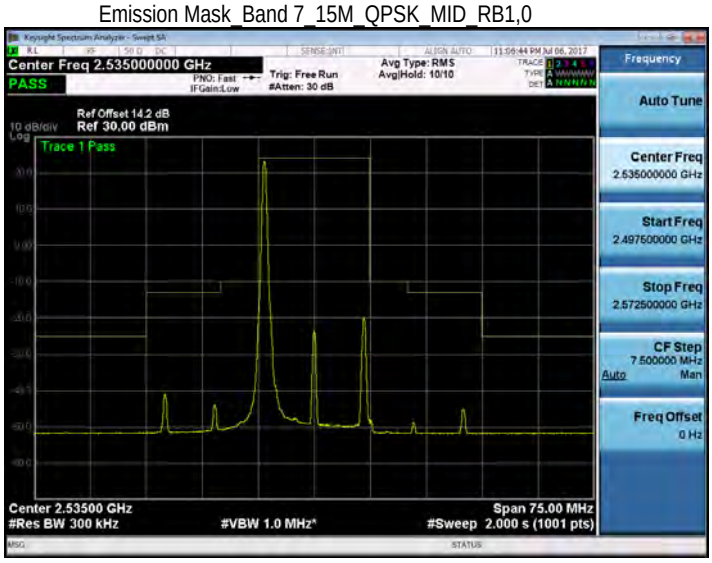
Emission Mask_Band 7_15M_QPSK_LOW_RB75,0



Emission Mask_Band 7_15M_QPSK_LOW_RB1,0



Emission Mask_Band 7_15M_QPSK_MID_RB1,0



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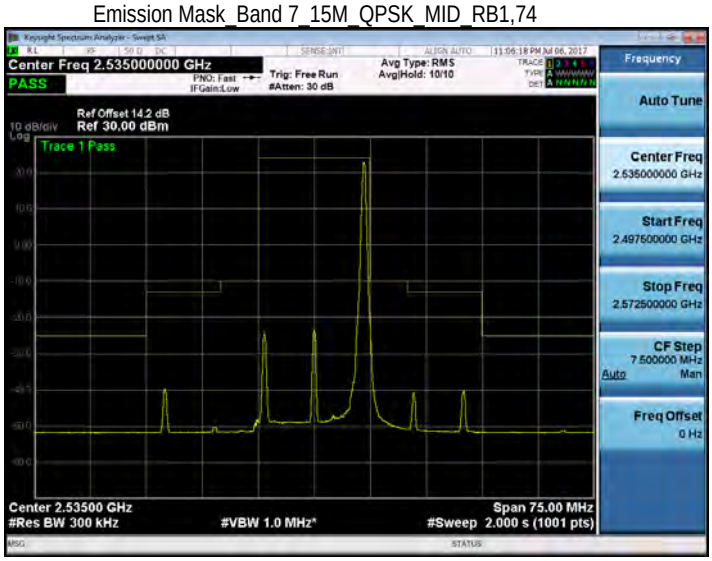
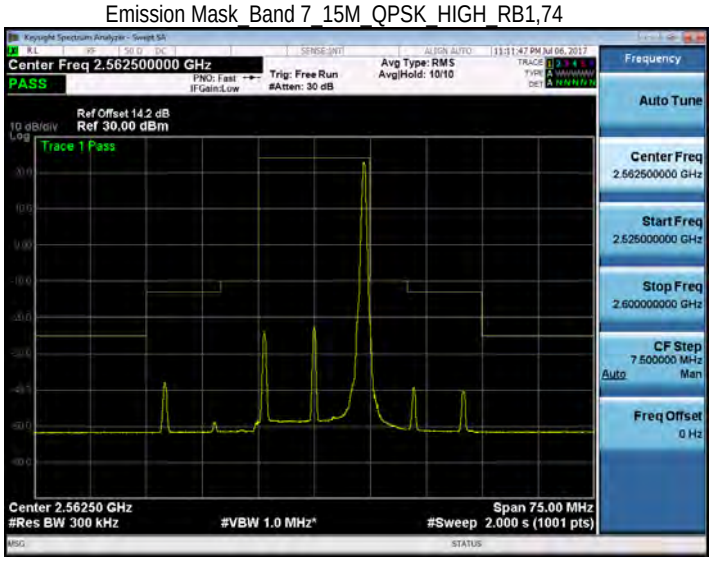
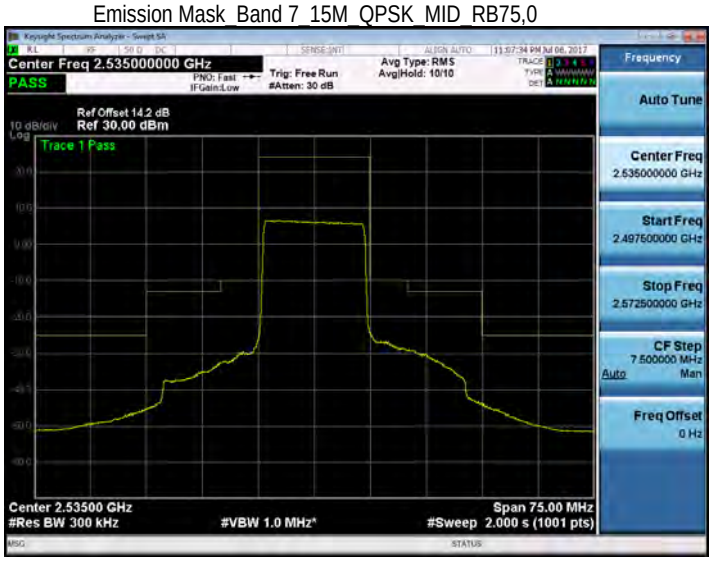
Emission Mask_Band 7_15M_QPSK_MID_RB1,74



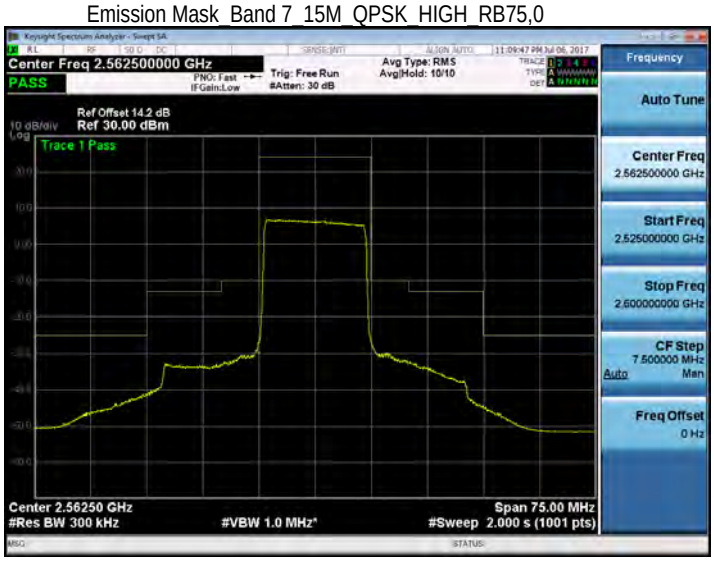
Emission Mask_Band 7_15M_QPSK_HIGH_RB1,74



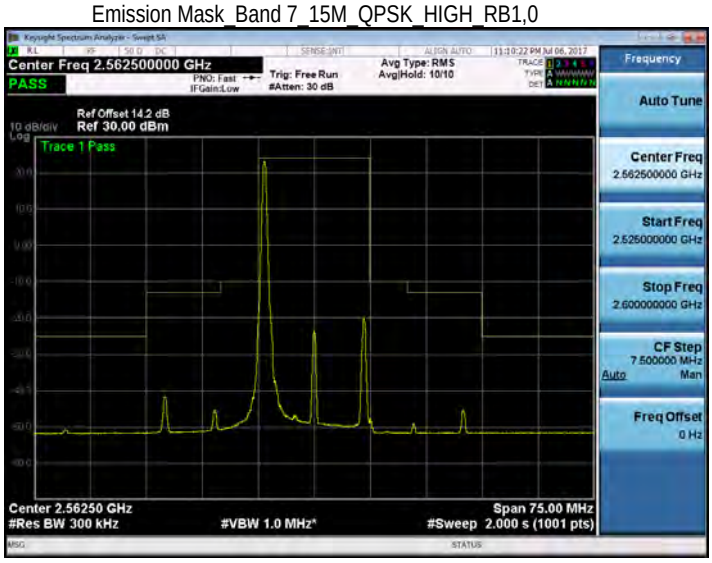
Emission Mask_Band 7_15M_QPSK_MID_RB75,0



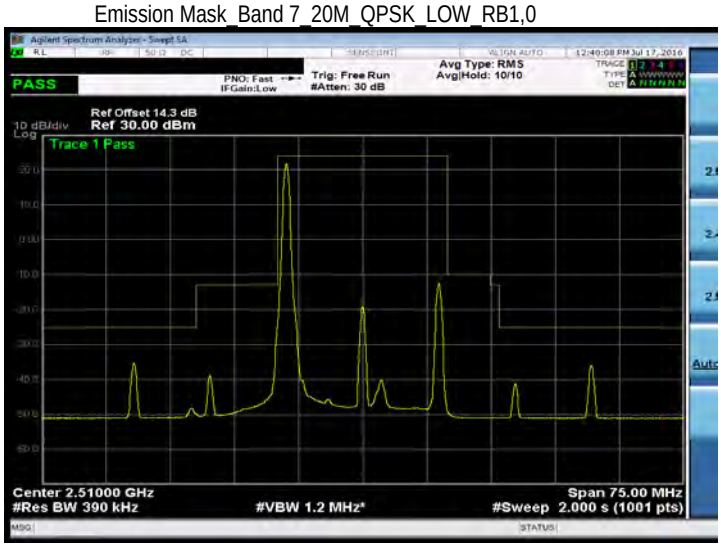
Emission Mask_Band 7_15M_QPSK_HIGH_RB75,0



Emission Mask_Band 7_15M_QPSK_HIGH_RB1,0



Emission Mask_Band 7_20M_QPSK_LOW_RB1,0



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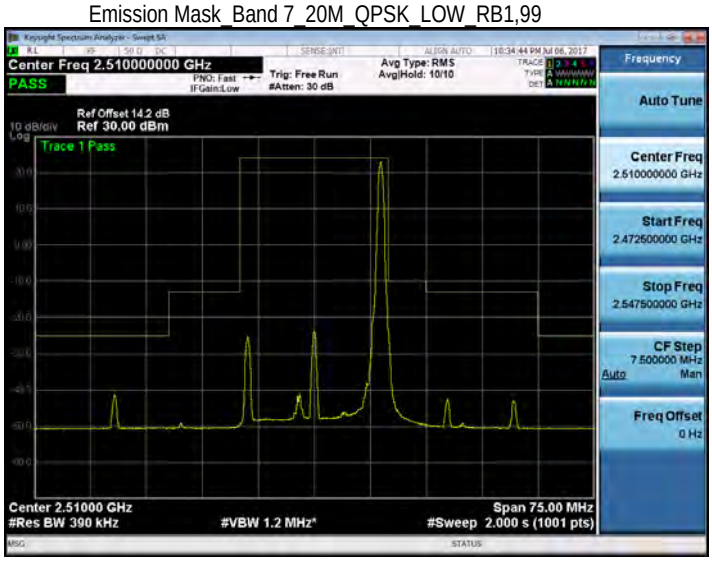
Emission Mask_Band 7_20M_QPSK_LOW_RB1,99



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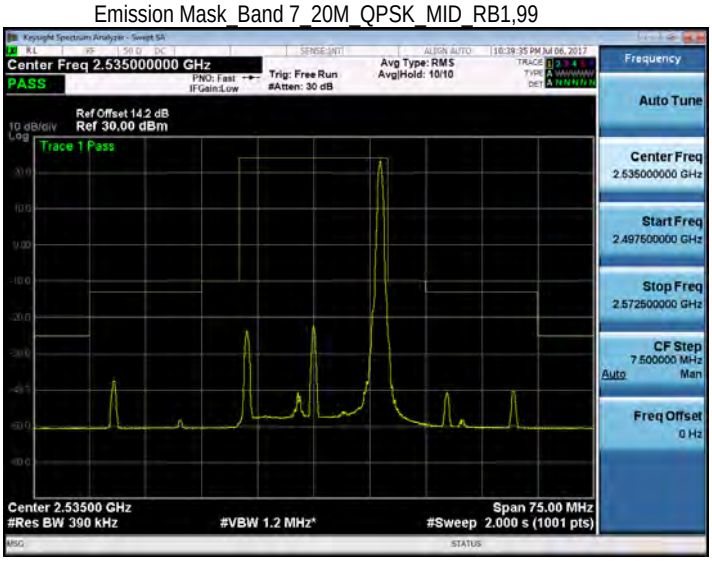
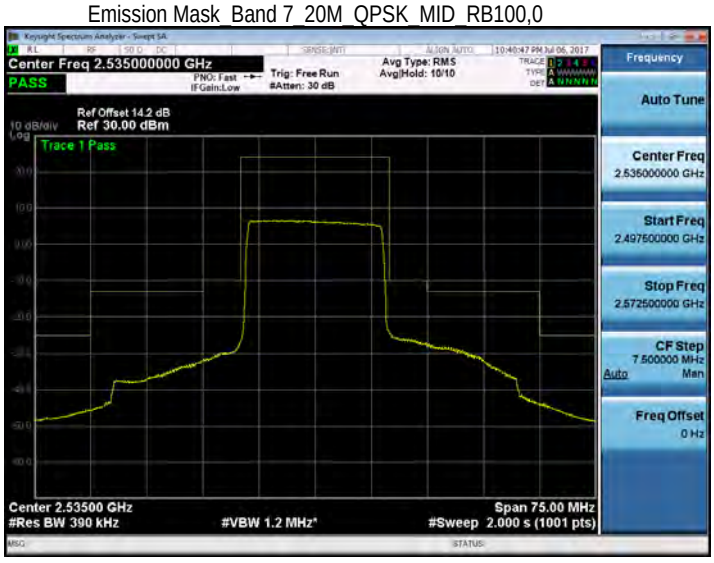
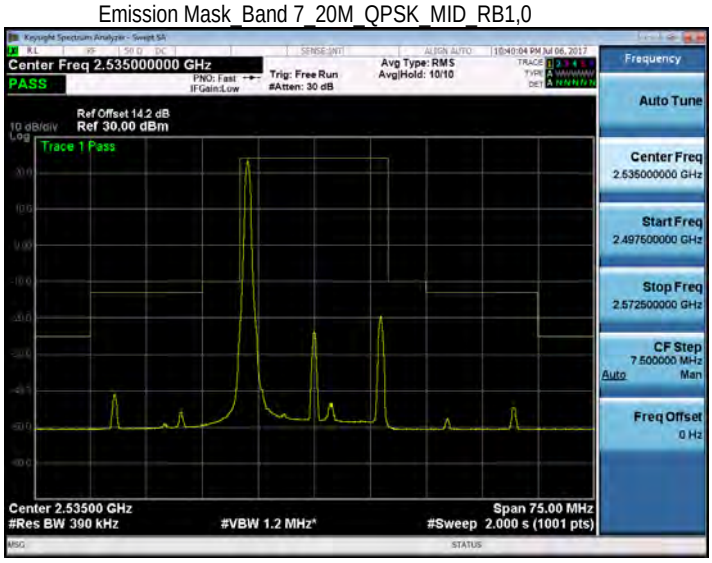


Emission Mask_Band 7_20M_QPSK_LOW_RB100,0

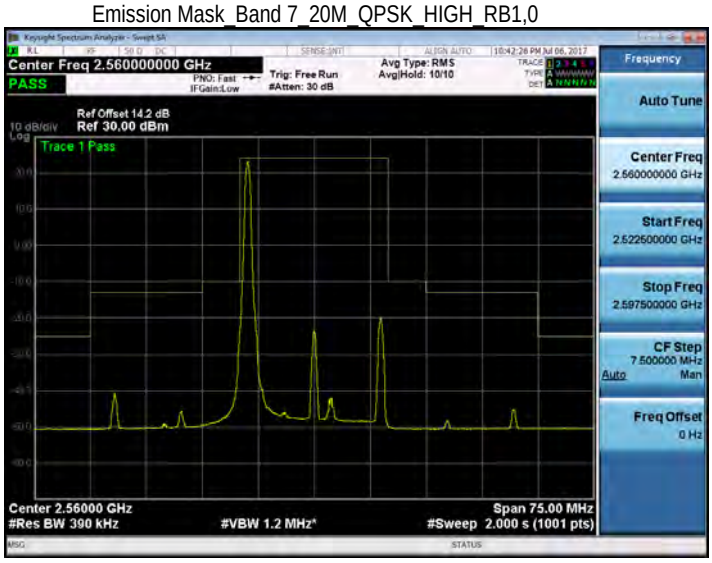
Emission Mask_Band 7_20M_QPSK_MID_RB100,0



Emission Mask_Band 7_20M_QPSK_MID_RB1,0



Emission Mask_Band 7_20M_QPSK_HIGH_RB1,0



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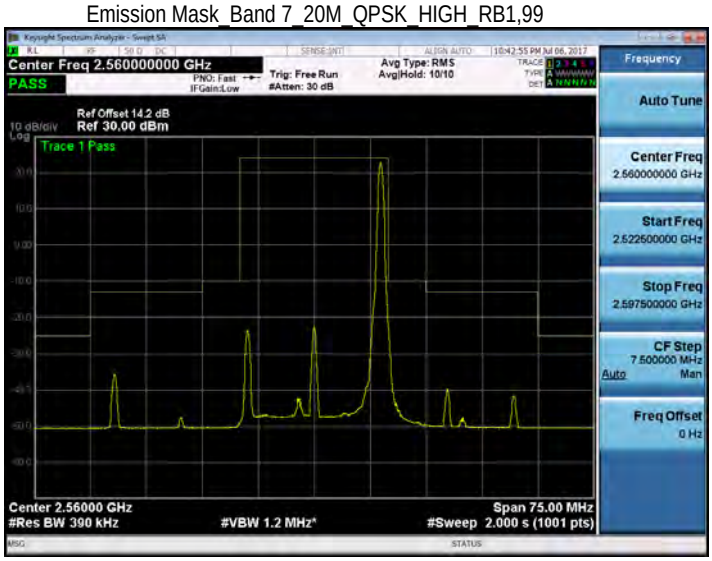
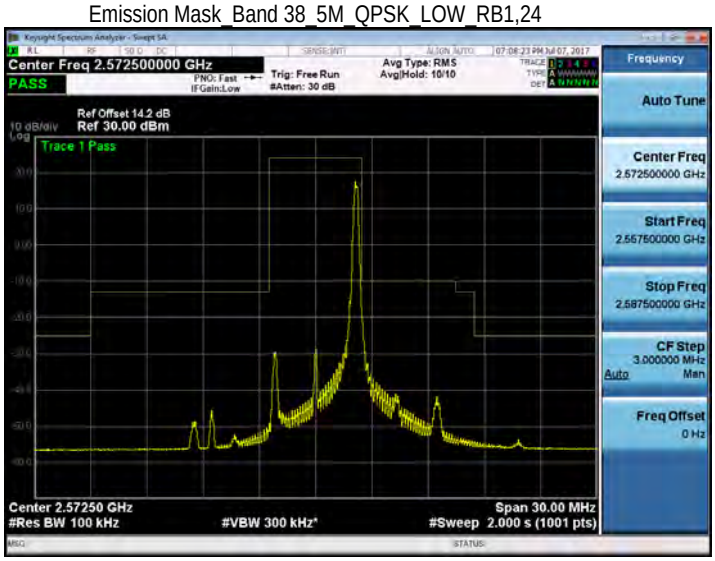
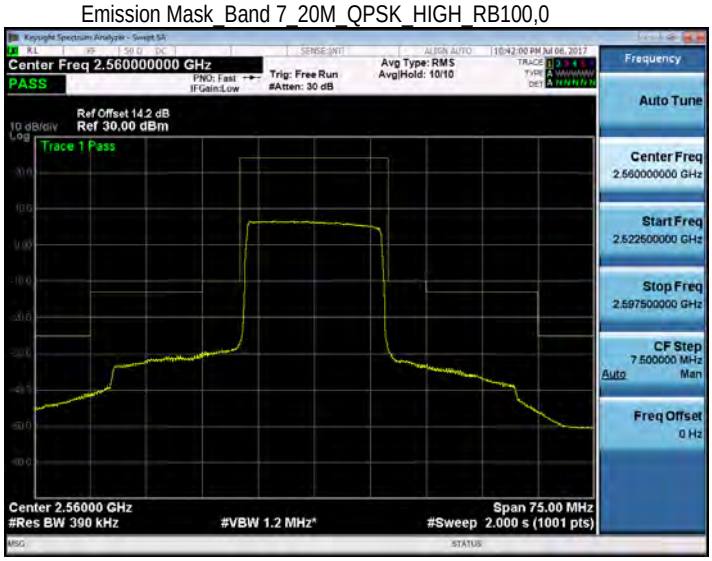
Emission Mask_Band 7_20M_QPSK_HIGH_RB1,99



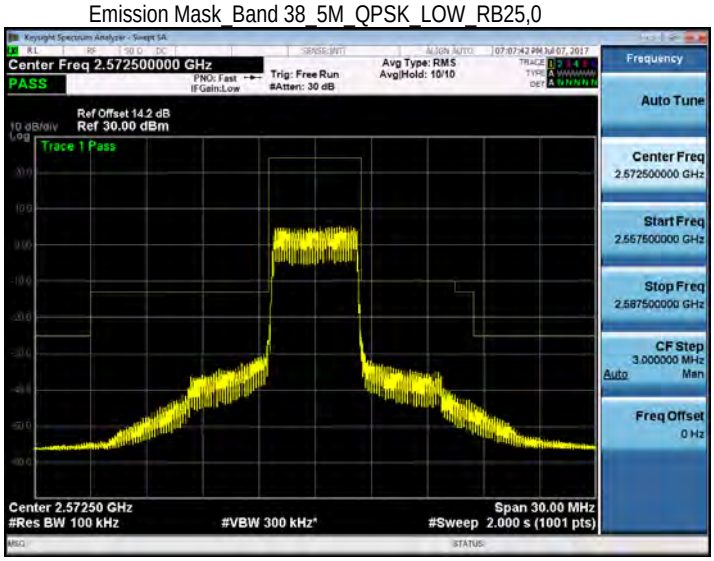
Emission Mask_Band 38_5M_QPSK_LOW_RB1,24



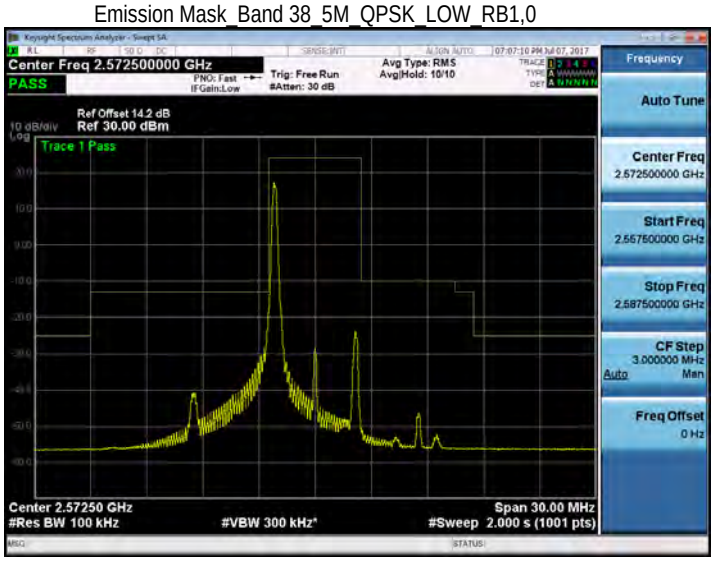
Emission Mask_Band 7_20M_QPSK_HIGH_RB100,0



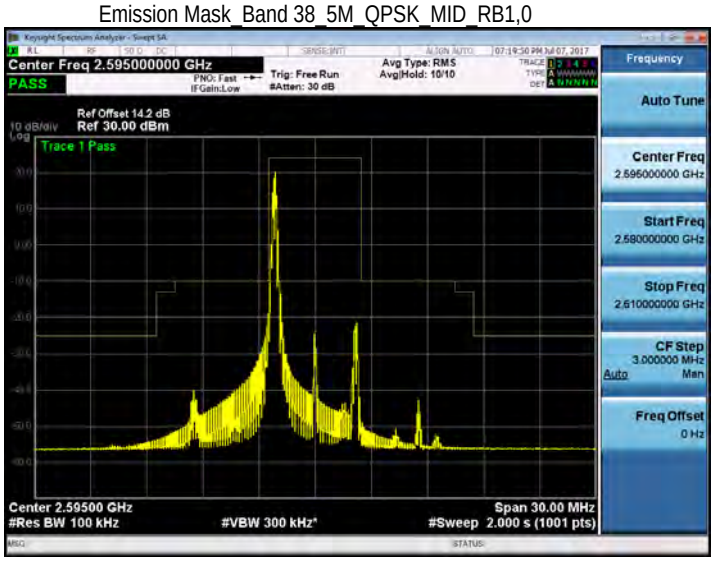
Emission Mask_Band 38_5M_QPSK_LOW_RB25,0



Emission Mask_Band 38_5M_QPSK_LOW_RB1,0



Emission Mask_Band 38_5M_QPSK_MID_RB1,0



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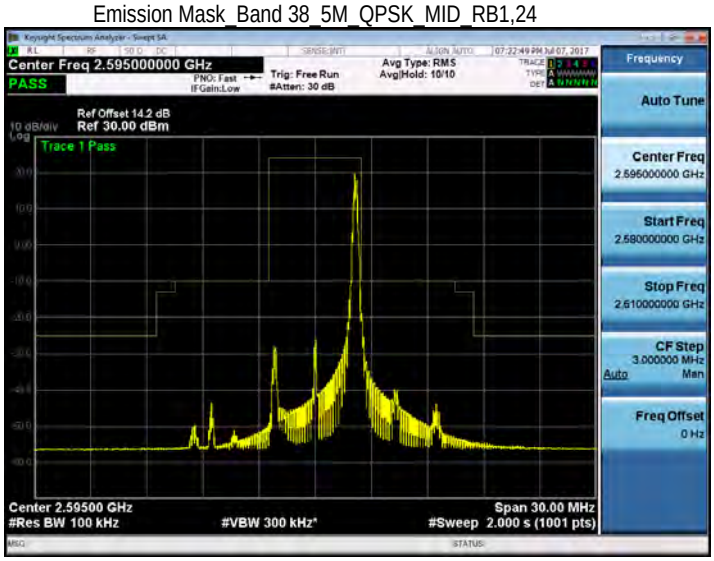
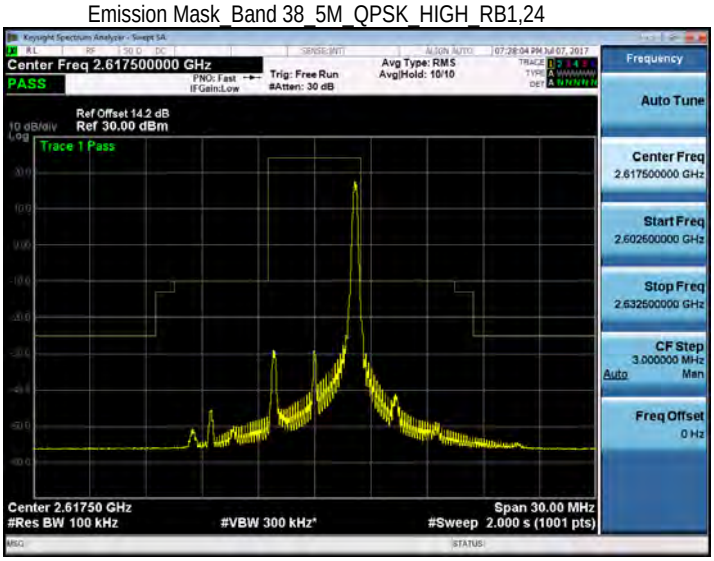
Emission Mask_Band 38_5M_QPSK_MID_RB1,24



Emission Mask_Band 38_5M_QPSK_HIGH_RB1,24



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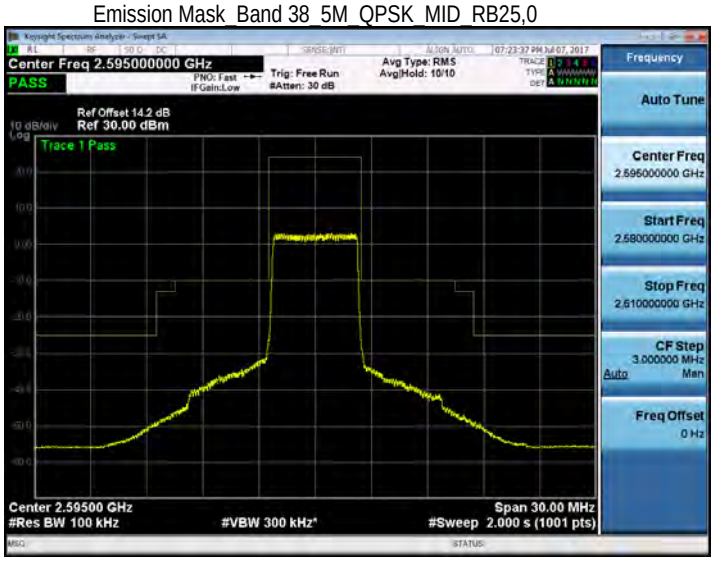

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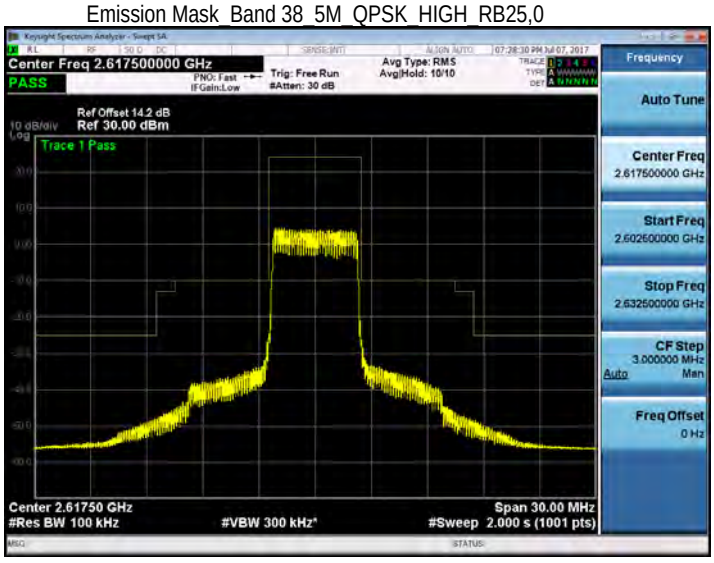
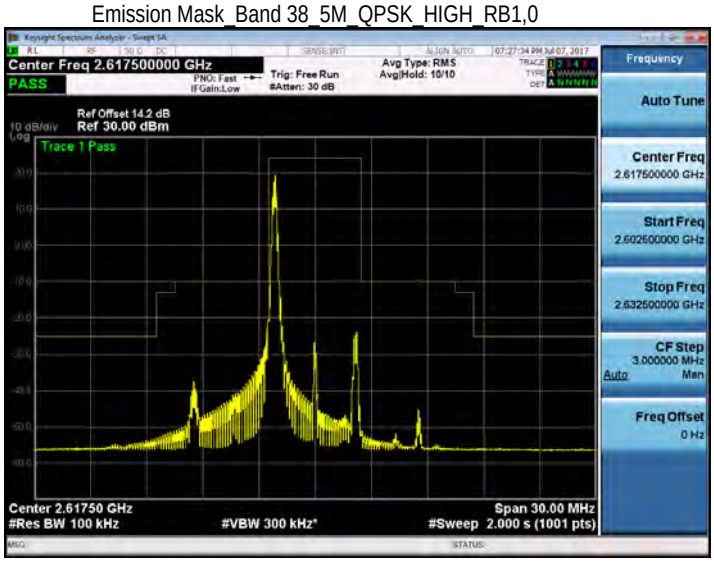
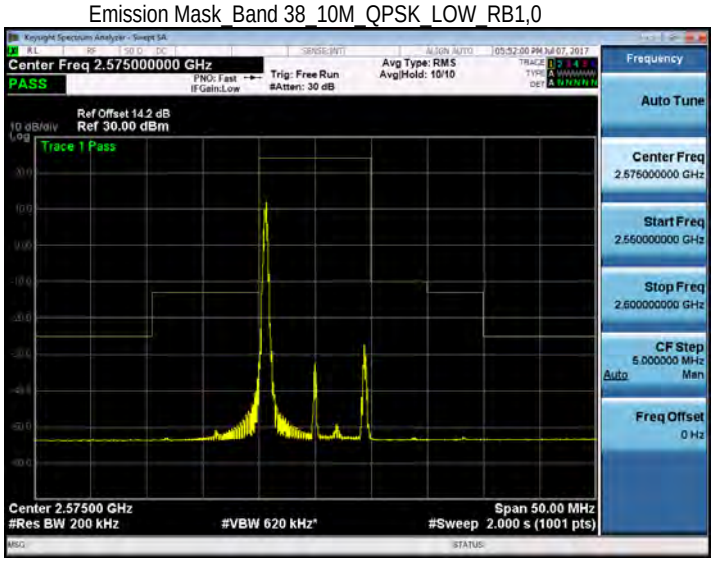


Emission Mask_Band 38_5M_QPSK_HIGH_RB1,0



Emission Mask_Band 38_10M_QPSK_LOW_RB1,0



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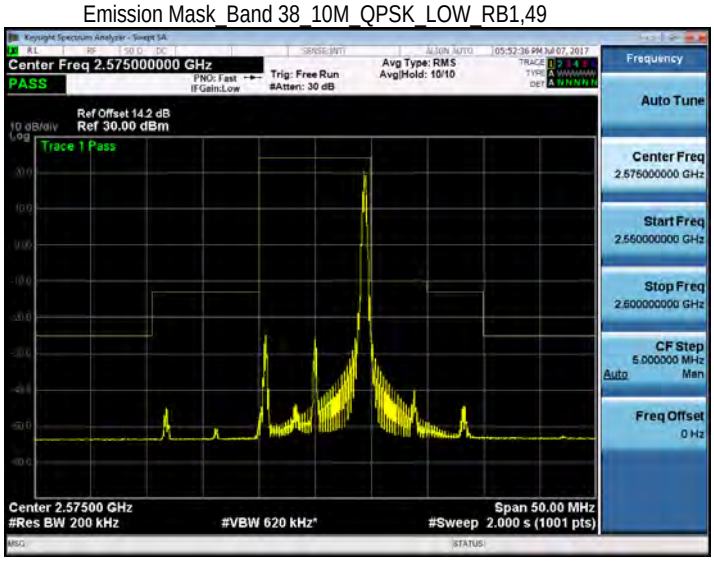
Emission Mask_Band 38_10M_QPSK_LOW_RB1,49



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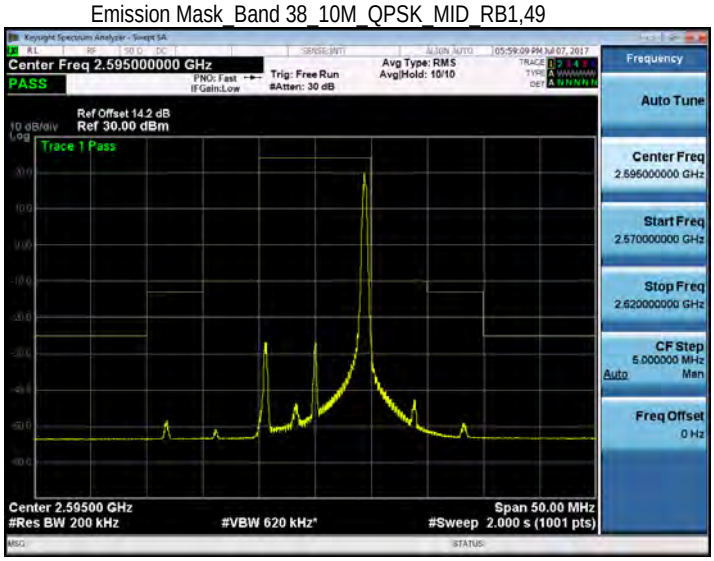

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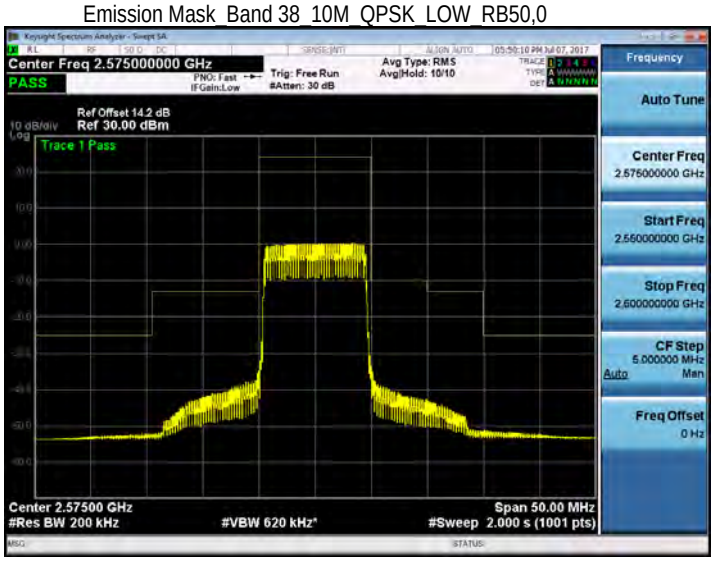

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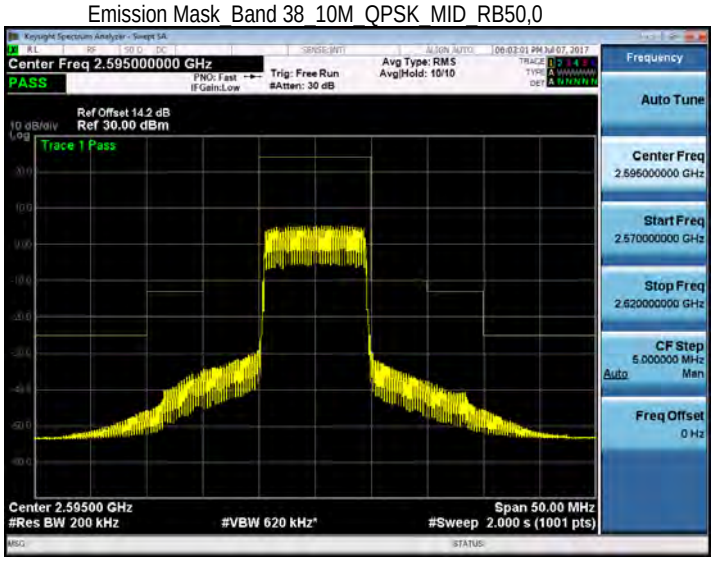
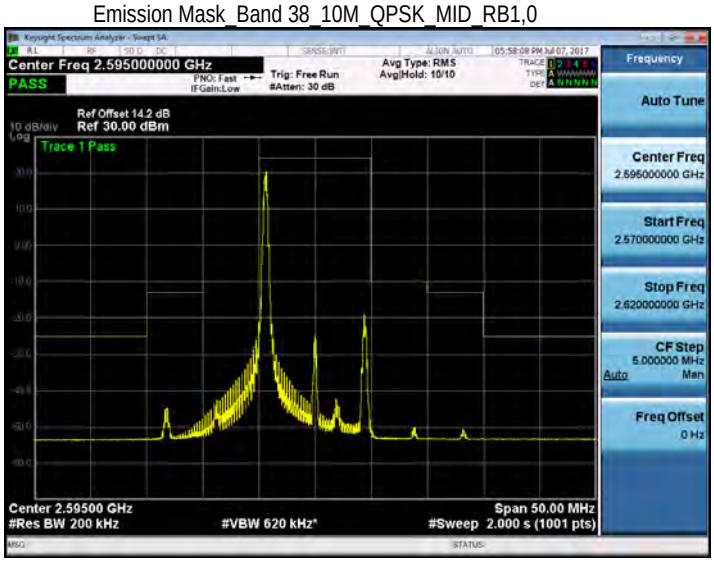
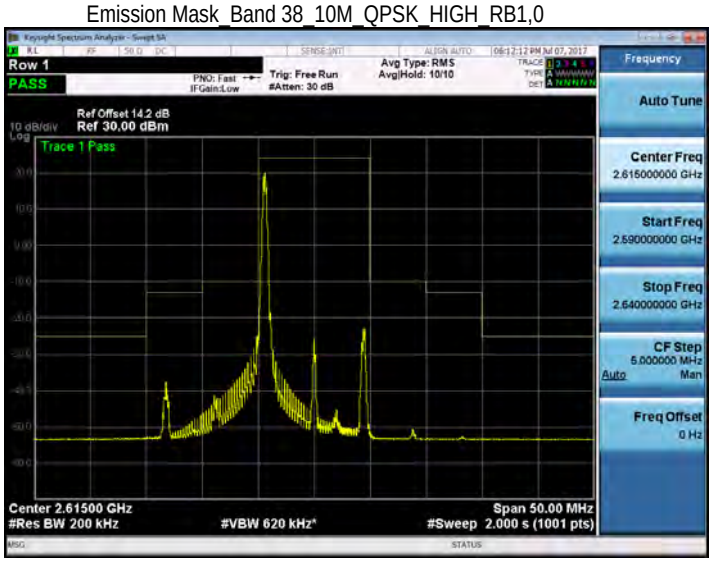


Emission Mask_Band 38_10M_QPSK_MID_RB1,0



Emission Mask_Band 38_10M_QPSK_HIGH_RB1,0



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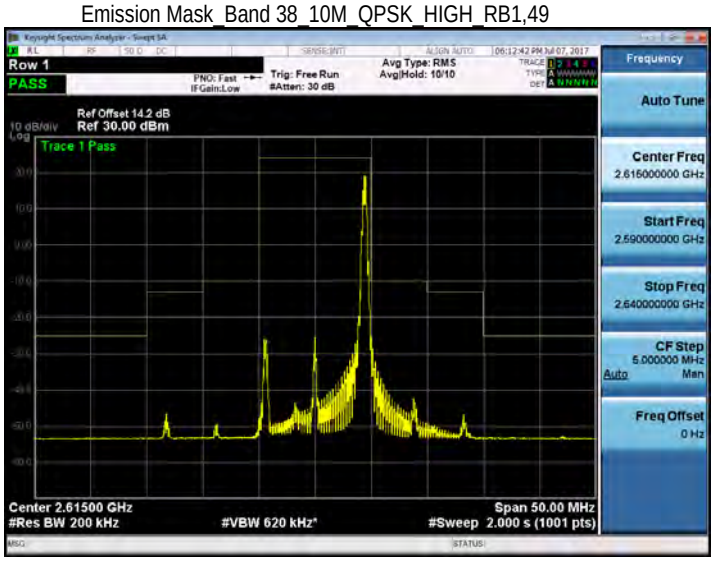
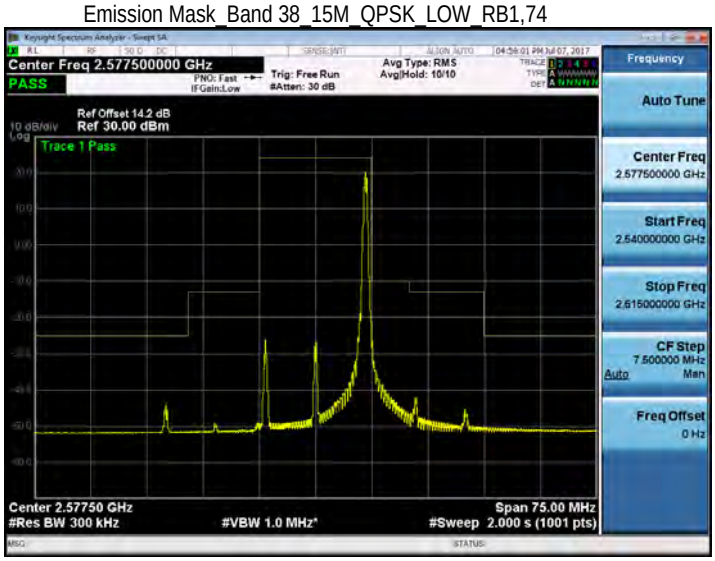
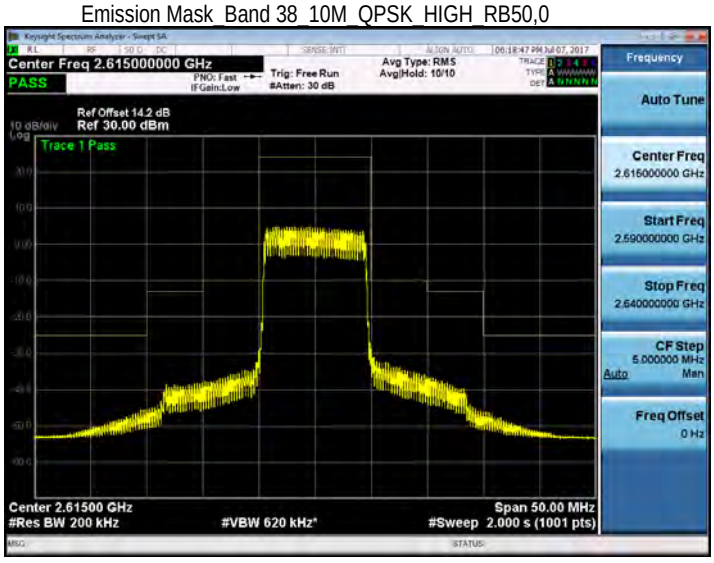
Emission Mask_Band 38_10M_QPSK_HIGH_RB1,49



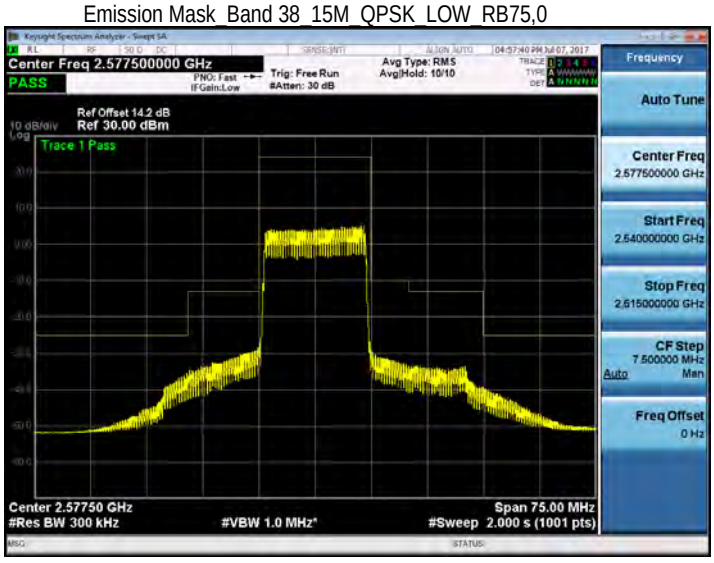
Emission Mask_Band 38_15M_QPSK_LOW_RB1,74



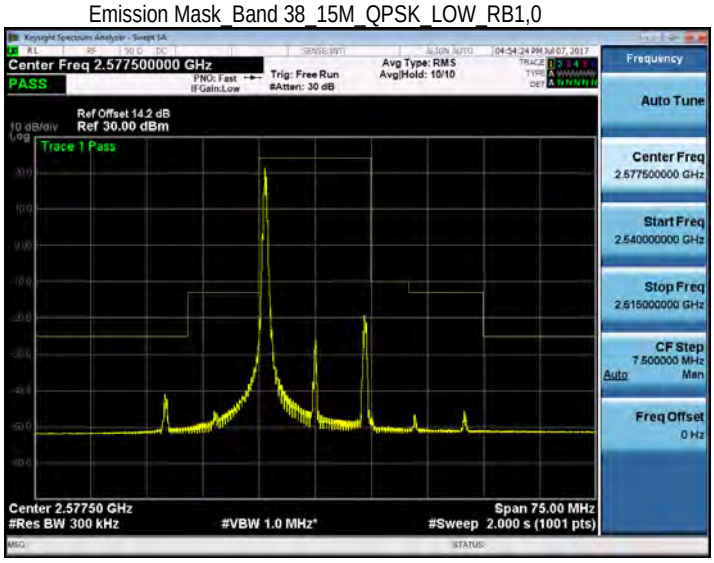
Emission Mask_Band 38_10M_QPSK_HIGH_RB50,0



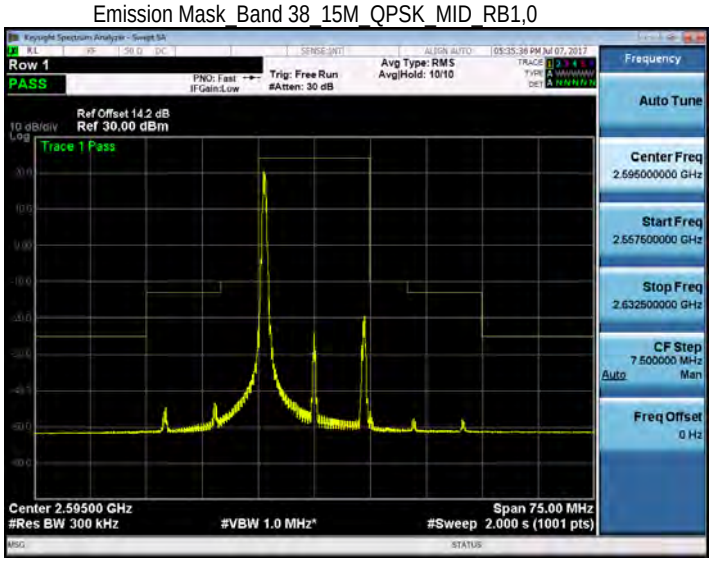
Emission Mask_Band 38_15M_QPSK_LOW_RB75,0



Emission Mask_Band 38_15M_QPSK_LOW_RB1,0



Emission Mask_Band 38_15M_QPSK_MID_RB1,0



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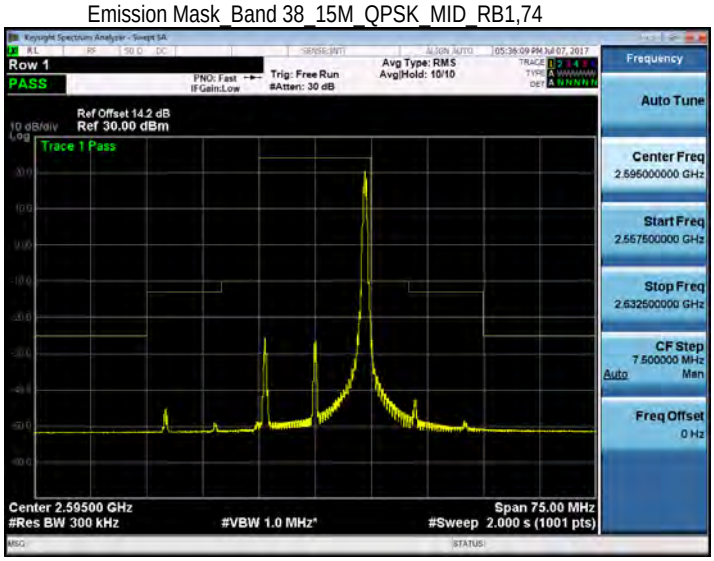
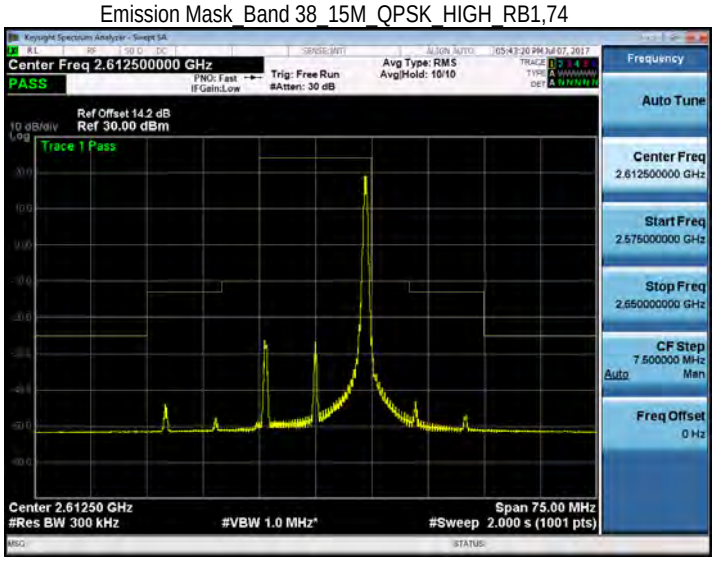
Emission Mask_Band 38_15M_QPSK_MID_RB1,74



Emission Mask_Band 38_15M_QPSK_HIGH_RB1,74



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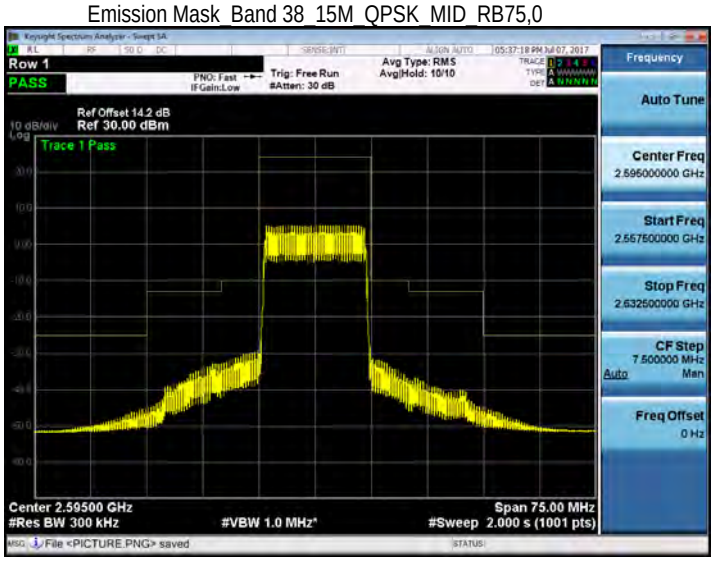
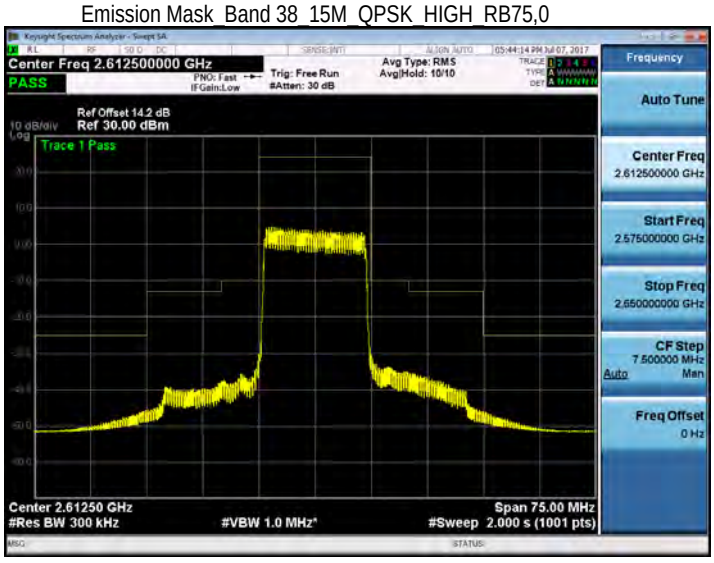
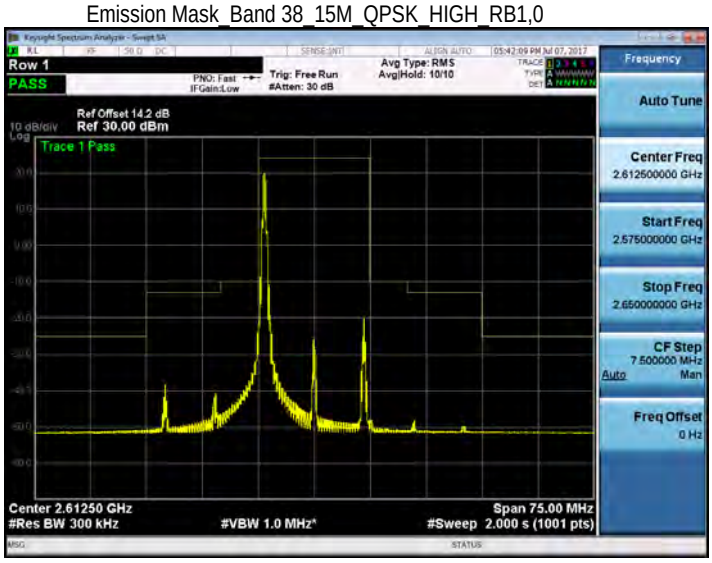


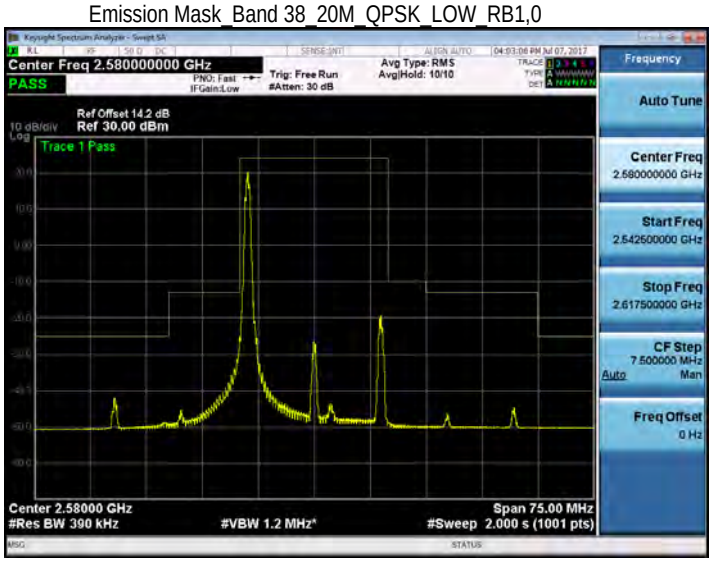
Emission Mask_Band 38_15M_QPSK_HIGH_RB75,0



Emission Mask_Band 38_15M_QPSK_HIGH_RB1,0



Emission Mask_Band 38_20M_QPSK_LOW_RB1,0



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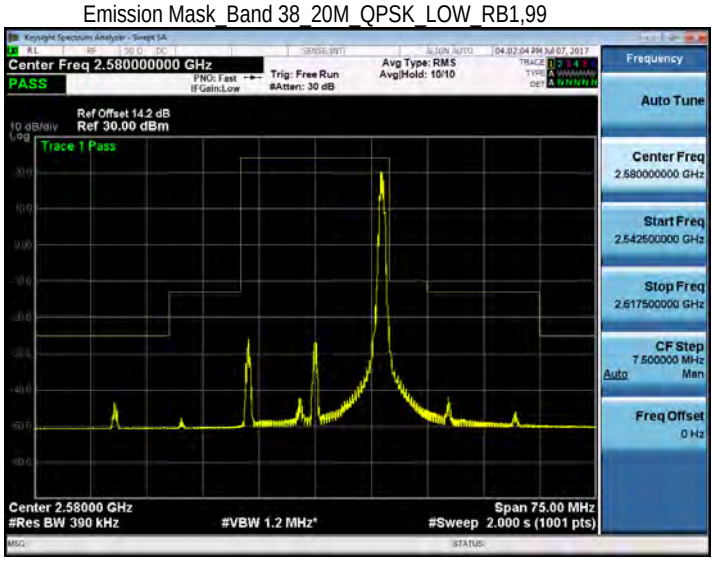
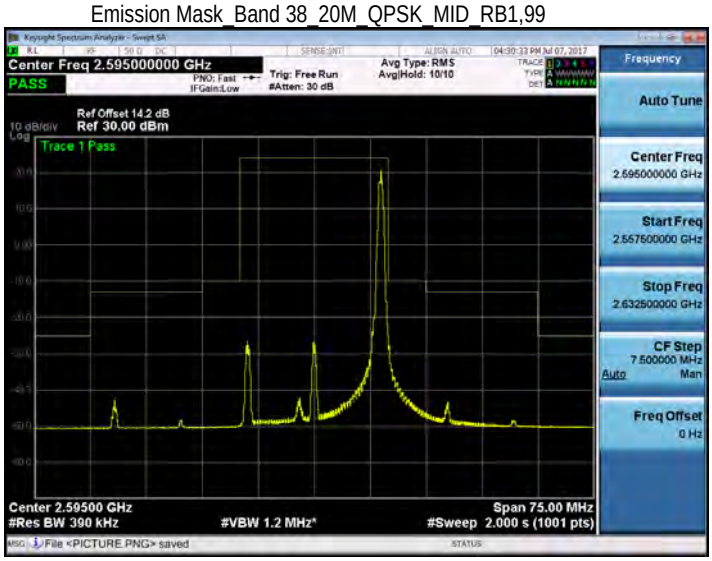
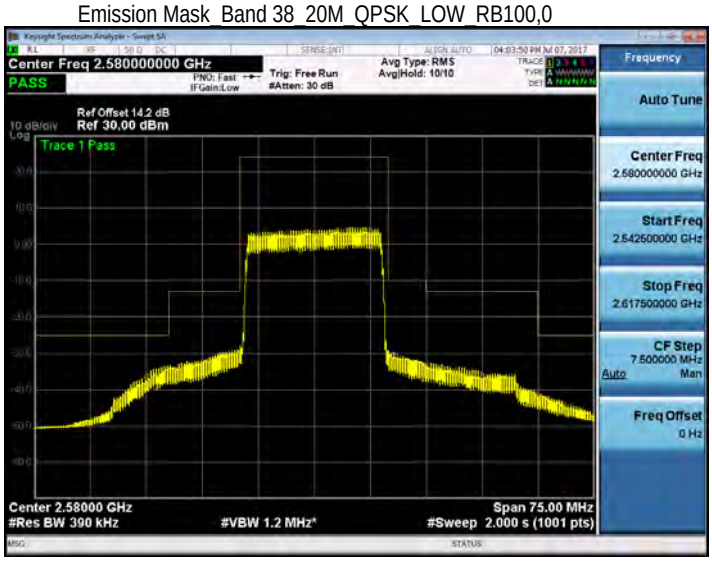
Emission Mask_Band 38_20M_QPSK_LOW_RB1,99



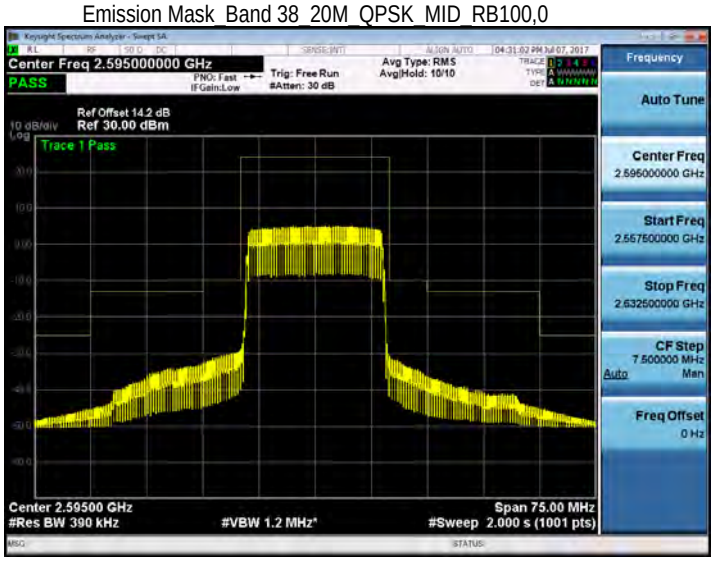
Emission Mask_Band 38_20M_QPSK_MID_RB1,99



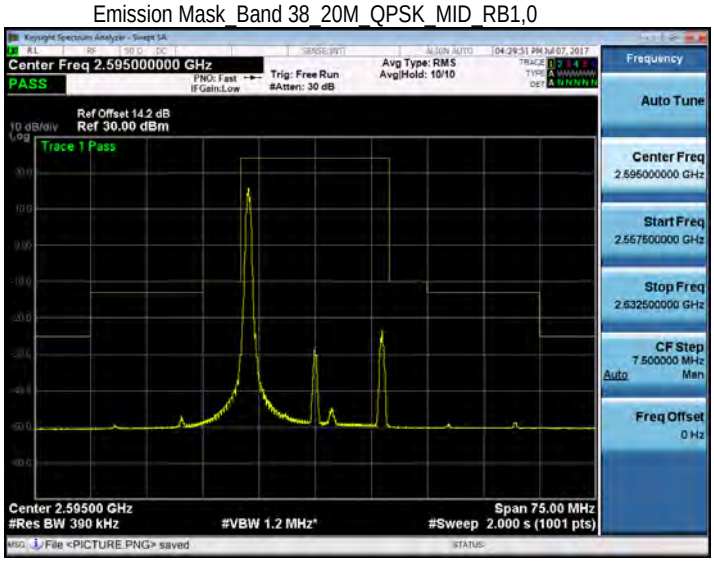
Emission Mask_Band 38_20M_QPSK_LOW_RB100,0



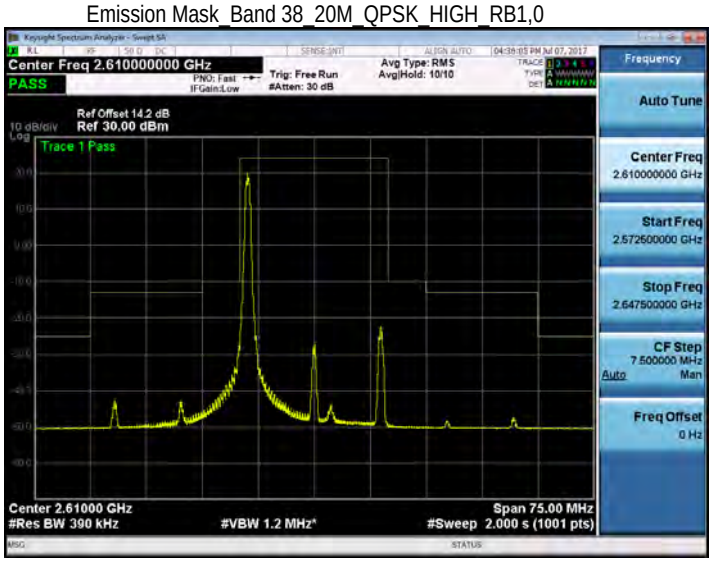
Emission Mask_Band 38_20M_QPSK_MID_RB100,0



Emission Mask_Band 38_20M_QPSK_MID_RB1,0



Emission Mask_Band 38_20M_QPSK_HIGH_RB1,0



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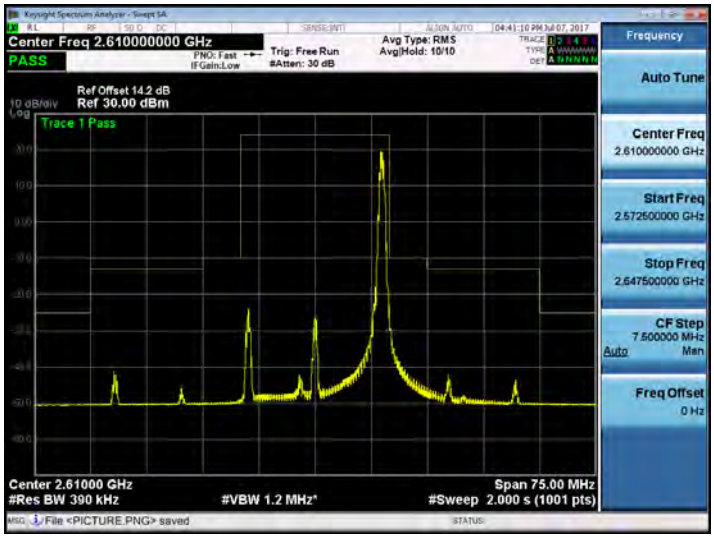
Emission Mask_Band 38_20M_QPSK_HIGH_RB1,99



Emission Mask_Band 38_20M_QPSK_HIGH_RB100,0

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10. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

10.1. Standard Applicable

According to FCC §2.1053,

FCC §22.917(a) , §24.238(a) , §27.53 (h) , the magnitude of each spurious and harmonic emission that can be detected when the equipment is operated under the conditions specified in the instruction manual and/ or alignment procedure, shall not be less than 43 + 10 log (mean output power in watts) dBc below the mean power output outside a license's frequency block (-13dBm).

FCC §27.53(c) (5) & FCC §27.53(g)
Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

FCC §27.53(h) (3)

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

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FCC §27.53(m) (4) (6)

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

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

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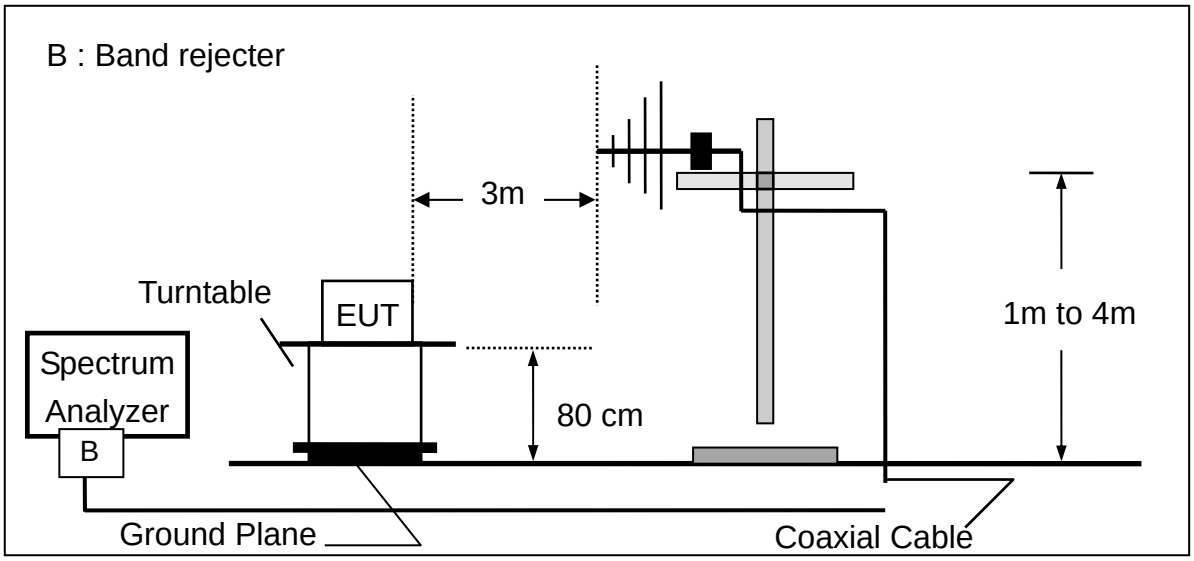
Table 2 — Unwanted Emissions for Mobile, Portable and Low-Power Fixed Subscriber Equipment

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

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

10.2. EUT Setup

Radiated Emission Test Set-Up, Frequency Below 1000MHz



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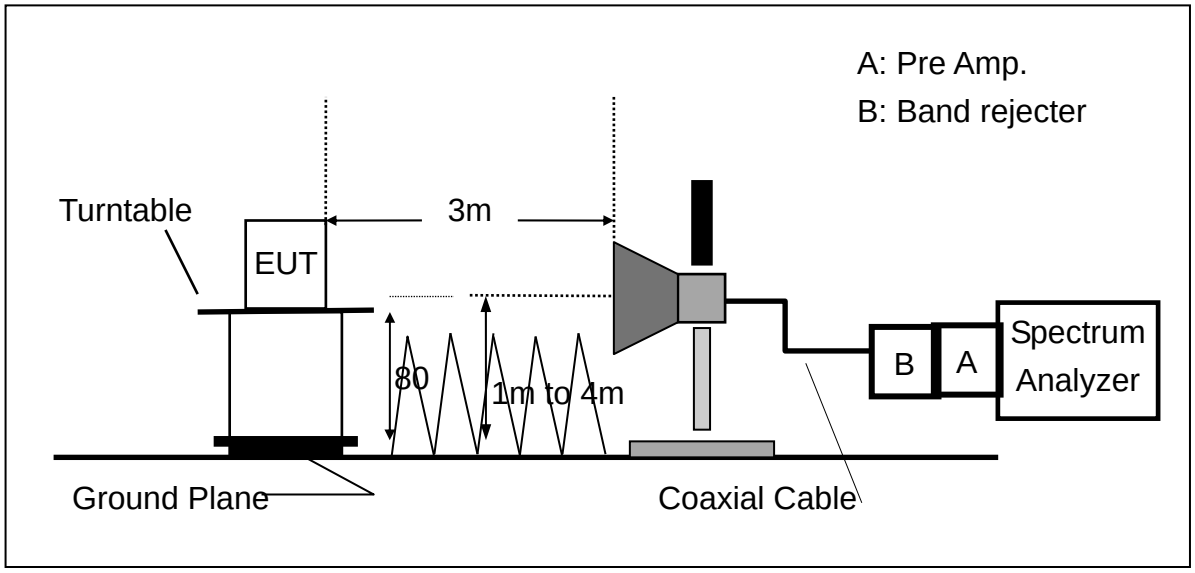
Radiated Emission Test Set-UP Frequency Over 1 GHz



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.

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + 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	05/11/2017	05/10/2018
Spectrum Analyzer	Agilent	E4446A	MY51100003	04/25/2017	04/24/2018
Loop Antenna	ETS-Lindgren	6502	148045	09/20/2016	09/19/2017
Bilog Antenna	SCHWAZBECK	VULB9168	378	12/19/2016	12/18/2017
Horn Antenna	Schwarzbeck	BBHA9120D	1441	08/01/2016	07/31/2017
Pre-Amplifier	Agilent	8447D	2944A07676	01/05/2017	01/04/2018
Pre-Amplifier	EMC Instruments Corp.	EMC0126530	980038	01/05/2017	01/04/2018
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	ChamPro	AM-BS-4500-B	060776-ABS	N.C.R	N.C.R
Controller	ChamPro	EM1000	60776	N.C.R	N.C.R
Low Loss Cable	Huber Suhner	966_RX	9	01/05/2017	01/04/2018
3m Site NSA	SGS	966 chamber	N/A	07/01/2017	06/30/2018
Low Loss Cable	Huber Suhner	966 TX	1	01/05/2017	01/04/2018
Horn Antenna	Schwarzbeck	BBHA9170	184	12/12/2016	12/11/2017
Pre-Amplifier	EMC Instruments Corp.	EMC184045	980135	01/05/2017	01/04/2018
Radio Communication Analyzer	R&S	CMU200	102189	02/11/2017	02/10/2018
Radio Communication Analyer	Anritsu	MT8820C	6201465317	01/03/2017	01/02/2018

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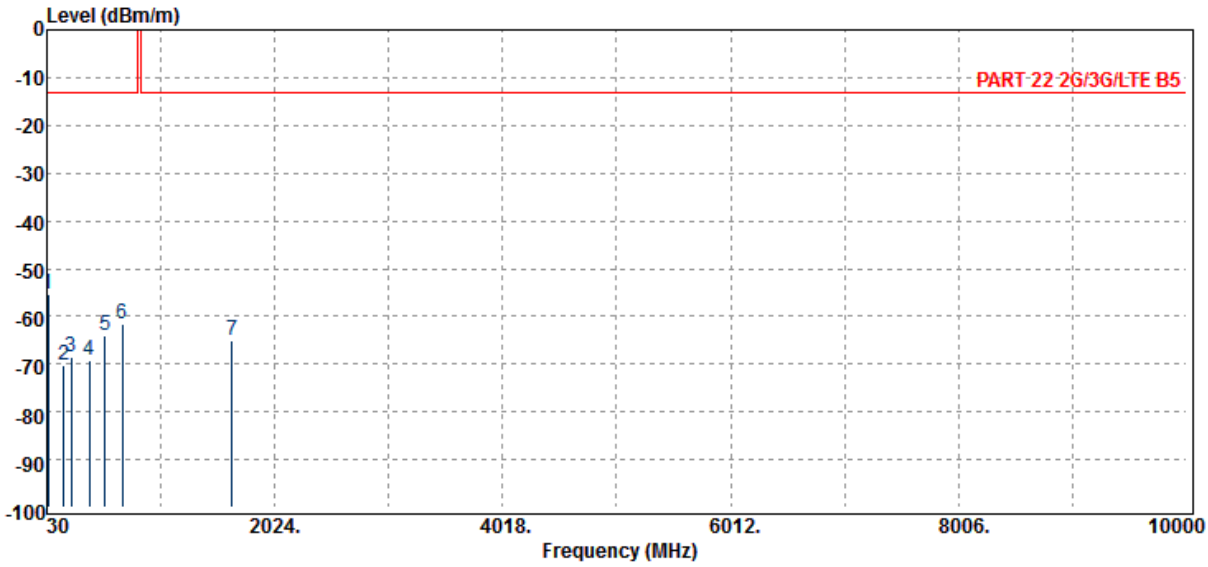
10.5. Measurement Result:

Radiated Spurious Emission Measurement Result: GPPRS 850 Mode

Operation Band	:GPRS 850	Temp./Humi.	:21 deg_C / 62 RH
Fundamental Frequency	:824.2 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
41.64	S	-53.10	-41.42	-10.68	-1.00	-13	-40.10
179.38	S	-68.17	-69.54	2.93	-1.56	-13	-55.17
243.40	S	-66.38	-70.12	5.49	-1.75	-13	-53.38
401.51	S	-67.09	-70.67	5.97	-2.39	-13	-54.09
537.31	S	-62.00	-65.23	5.80	-2.57	-13	-49.00
691.54	S	-59.41	-61.82	5.24	-2.83	-13	-46.41
1648.40	H	-62.79	-67.83	9.26	-4.22	-13	-49.79

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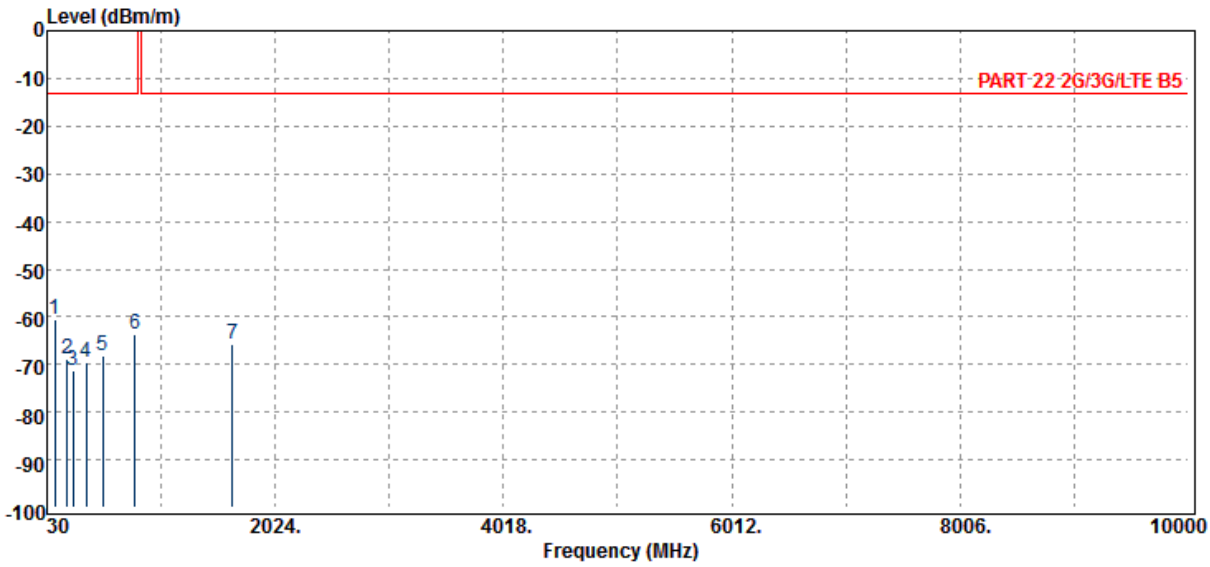
Operation Band	:GPRS 850	Temp./Humi.	:21 deg_C / 62 RH
Fundamental Frequency	:824.2 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
95.96	S	-58.50	-58.26	0.99	-1.23	-13	-45.50
206.54	S	-66.72	-70.59	5.53	-1.66	-13	-53.72
257.95	S	-69.11	-73.12	5.78	-1.77	-13	-56.11
374.35	S	-67.52	-71.28	5.99	-2.23	-13	-54.52
519.85	S	-65.93	-69.44	5.90	-2.39	-13	-52.93
799.21	S	-61.67	-64.26	5.49	-2.90	-13	-48.67
1648.40	H	-63.44	-68.48	9.26	-4.22	-13	-50.44

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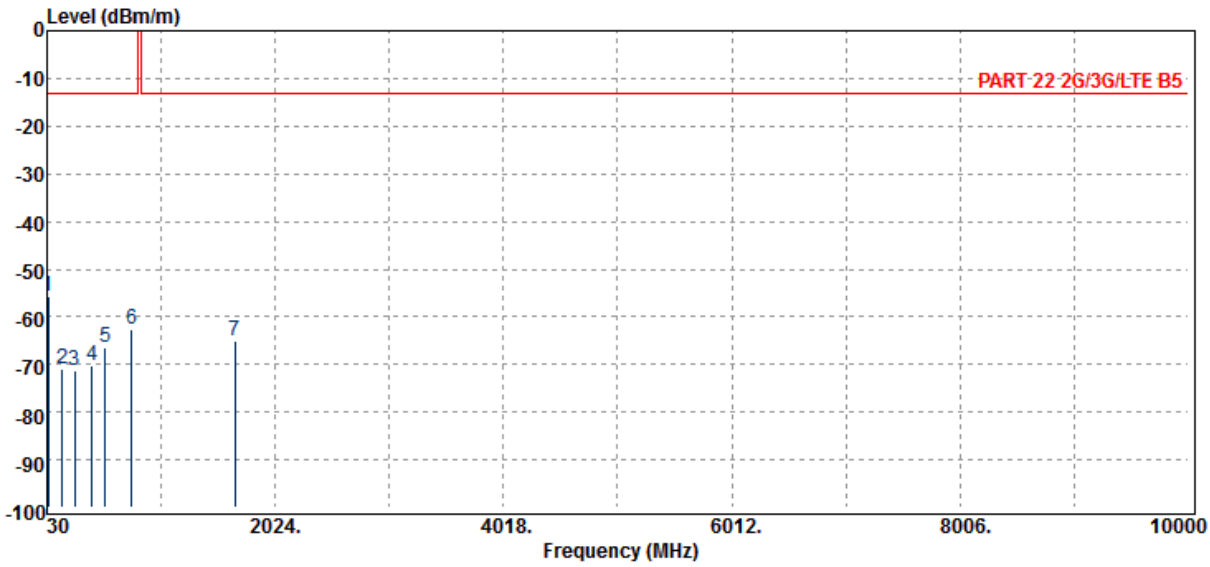
Operation Band	:GPRS 850	Temp./Humi.	:21 deg_C / 62 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
41.64	S	-53.71	-42.03	-10.68	-1.00	-13	-40.71
162.89	S	-68.69	-67.93	0.73	-1.49	-13	-55.69
269.59	S	-68.96	-72.80	5.66	-1.82	-13	-55.96
419.94	S	-67.98	-71.55	5.90	-2.33	-13	-54.98
542.16	S	-64.17	-67.33	5.78	-2.62	-13	-51.17
772.05	S	-60.65	-63.11	5.40	-2.94	-13	-47.65
1673.20	H	-62.79	-67.85	9.35	-4.29	-13	-49.79

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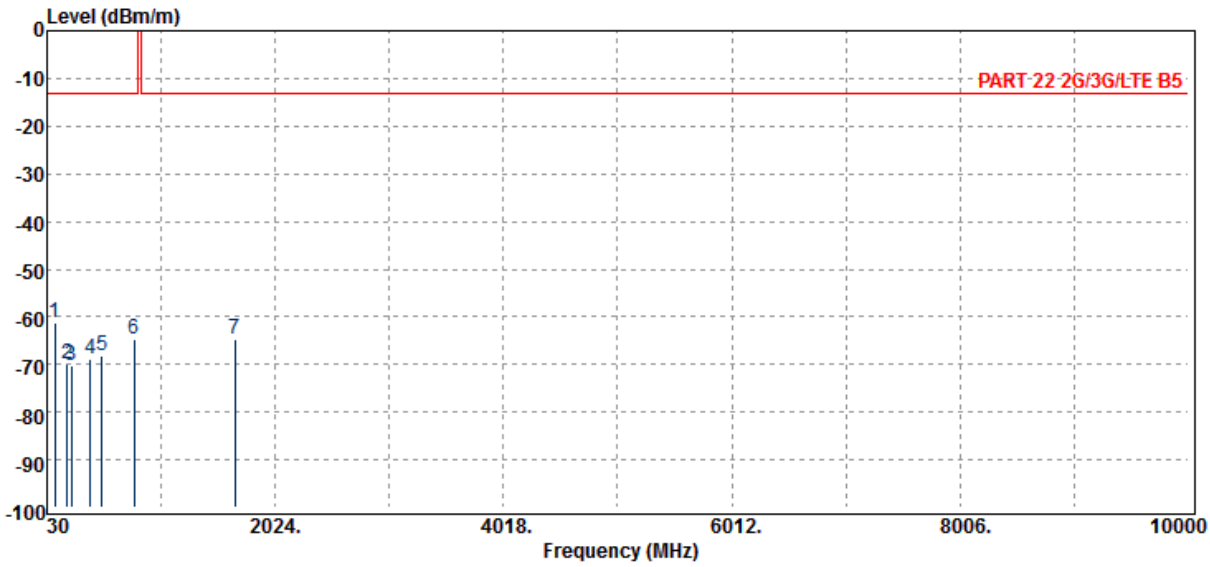
Operation Band	:GPRS 850	Temp./Humi.	:21 deg_C / 62 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
97.90	S	-58.93	-58.46	0.77	-1.24	-13	-45.93
206.54	S	-67.67	-71.54	5.53	-1.66	-13	-54.67
239.52	S	-67.98	-71.67	5.43	-1.74	-13	-54.98
405.39	S	-66.78	-70.32	5.95	-2.41	-13	-53.78
512.09	S	-66.05	-69.64	5.94	-2.35	-13	-53.05
793.39	S	-62.59	-65.16	5.47	-2.90	-13	-49.59
1673.20	H	-62.52	-67.58	9.35	-4.29	-13	-49.52

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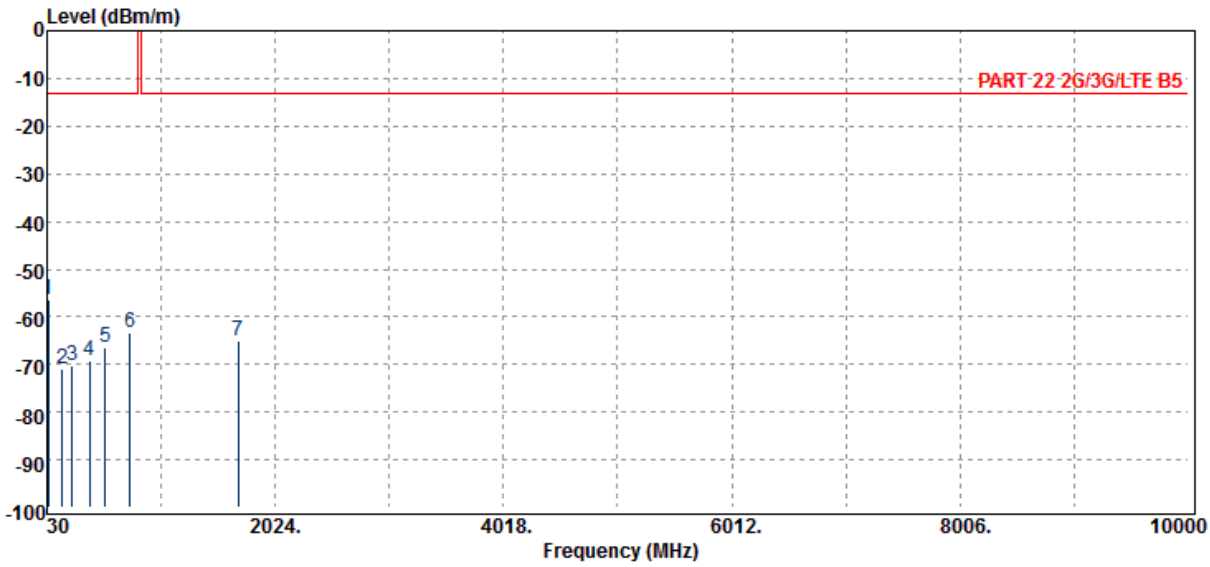
Operation Band	:GPRS 850	Temp./Humi.	:21 deg_C / 62 RH
Fundamental Frequency	:848.8 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
41.64	S	-54.38	-42.70	-10.68	-1.00	-13	-41.38
162.89	S	-68.81	-68.05	0.73	-1.49	-13	-55.81
248.25	S	-68.18	-71.99	5.56	-1.75	-13	-55.18
400.54	S	-67.00	-70.59	5.97	-2.38	-13	-54.00
539.25	S	-64.31	-67.51	5.79	-2.59	-13	-51.31
757.50	S	-61.01	-63.34	5.36	-3.03	-13	-48.01
1697.60	H	-62.74	-67.86	9.43	-4.31	-13	-49.74

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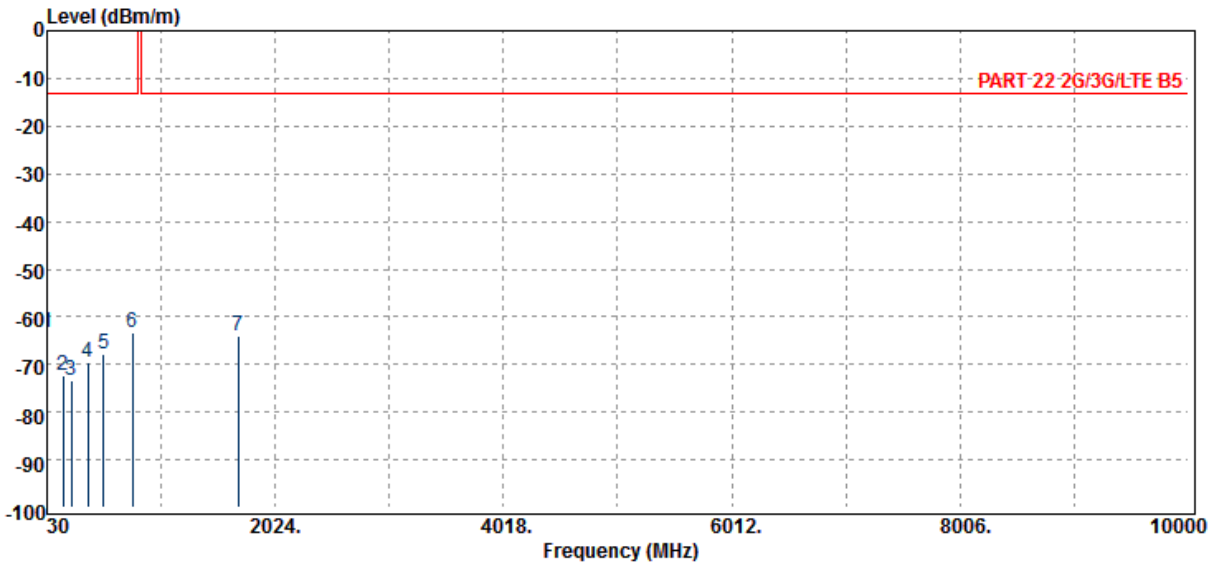
Operation Band	:GPRS 850	Temp./Humi.	:21 deg_C / 62 RH
Fundamental Frequency	:848.8 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	S	-61.26	-47.67	-12.63	-0.96	-13	-48.26
173.56	S	-70.08	-70.44	1.89	-1.53	-13	-57.08
241.46	S	-71.13	-74.85	5.46	-1.74	-13	-58.13
386.96	S	-67.28	-70.96	5.98	-2.30	-13	-54.28
522.76	S	-65.61	-69.07	5.88	-2.42	-13	-52.61
778.84	S	-61.33	-63.85	5.43	-2.91	-13	-48.33
1697.60	H	-61.76	-66.88	9.43	-4.31	-13	-48.76

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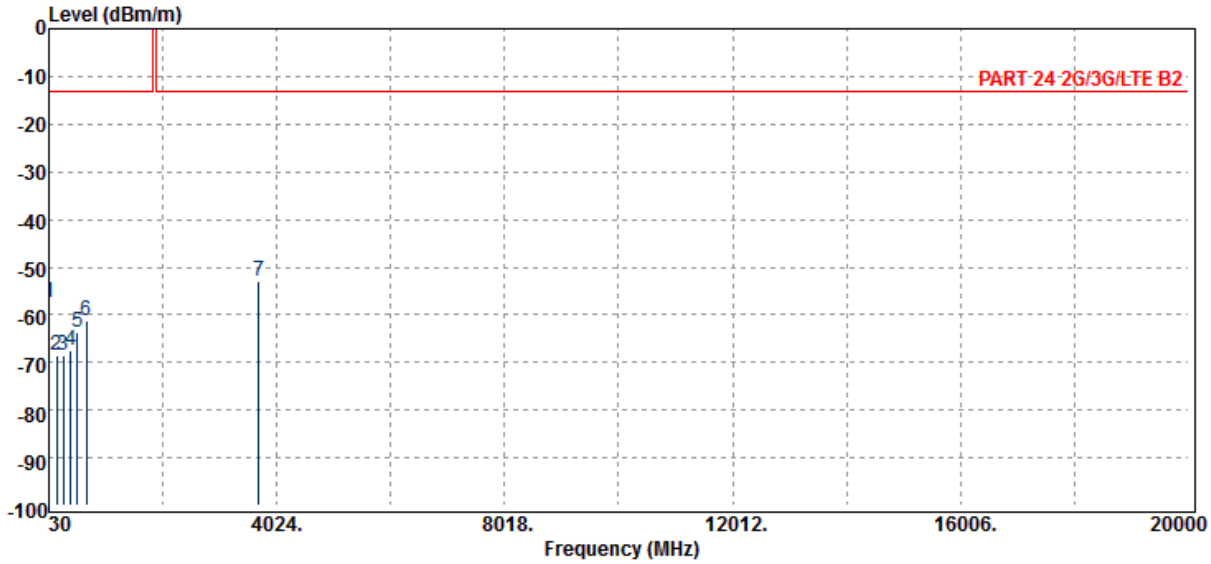
Radiated Spurious Emission Measurement Result: GPRS 1900 Mode

Operation Band	:GPRS 1900	Temp./Humi.	:21 deg_C / 62 RH
Fundamental Frequency	:1850.2 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
37.76	S	-57.49	-45.34	-11.17	-0.98	-13.00	-44.49
173.56	S	-68.39	-68.75	1.89	-1.53	-13.00	-55.39
282.20	S	-68.55	-72.24	5.57	-1.89	-13.00	-55.55
410.24	S	-67.52	-71.06	5.93	-2.40	-13.00	-54.52
524.70	S	-63.78	-67.21	5.87	-2.44	-13.00	-50.78
682.81	S	-61.07	-63.66	5.25	-2.67	-13.00	-48.07
3700.40	H	-53.08	-58.95	12.44	-6.58	-13.00	-40.08

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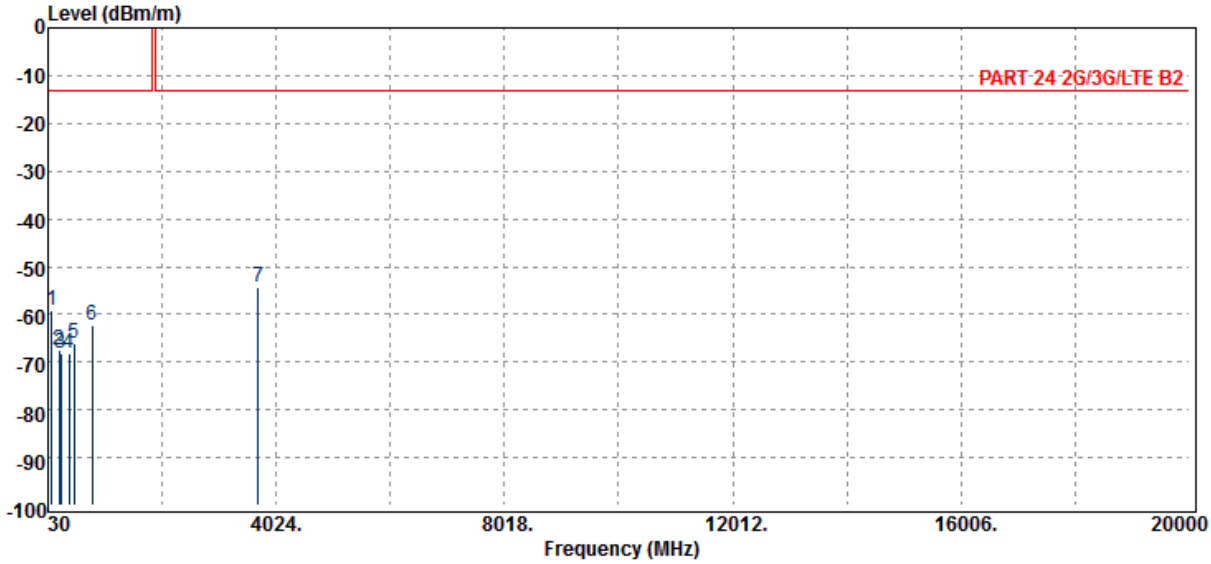
Operation Band	:GPRS 1900	Temp./Humi.	:21 deg_C / 62 RH
Fundamental Frequency	:1850.2 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
95.96	S	-59.21	-58.97	0.99	-1.23	-13.00	-46.21
220.12	S	-67.60	-71.37	5.48	-1.70	-13.00	-54.60
253.10	S	-68.32	-72.22	5.66	-1.76	-13.00	-55.32
396.66	S	-68.02	-71.64	5.97	-2.36	-13.00	-55.02
482.99	S	-65.95	-69.64	5.94	-2.25	-13.00	-52.95
796.30	S	-62.21	-64.79	5.48	-2.90	-13.00	-49.21
3700.40	H	-54.16	-60.02	12.44	-6.58	-13.00	-41.16

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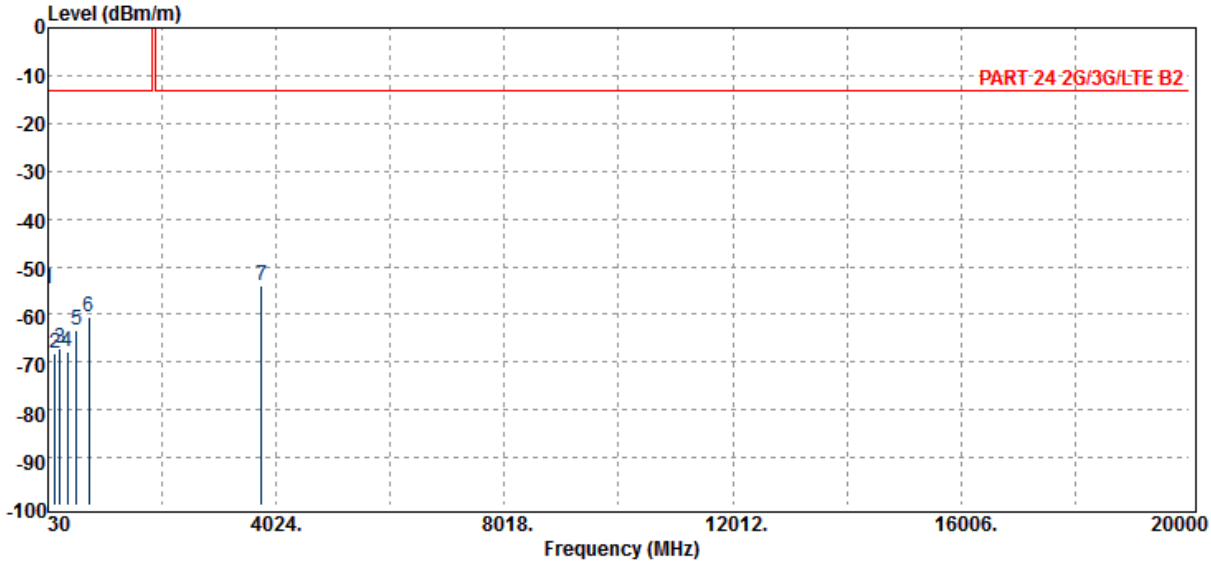
Operation Band	:GPRS 1900	Temp./Humi.	:21 deg_C / 62 RH
Fundamental Frequency	:1880 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
42.61	S	-54.62	-43.08	-10.54	-1.01	-13.00	-41.62
159.98	S	-68.22	-67.26	0.51	-1.48	-13.00	-55.22
245.34	S	-67.17	-70.93	5.52	-1.75	-13.00	-54.17
362.71	S	-67.89	-71.75	6.00	-2.15	-13.00	-54.89
531.49	S	-63.22	-66.54	5.84	-2.51	-13.00	-50.22
744.89	S	-60.55	-62.76	5.32	-3.11	-13.00	-47.55
3760.00	H	-53.97	-59.82	12.45	-6.60	-13.00	-40.97

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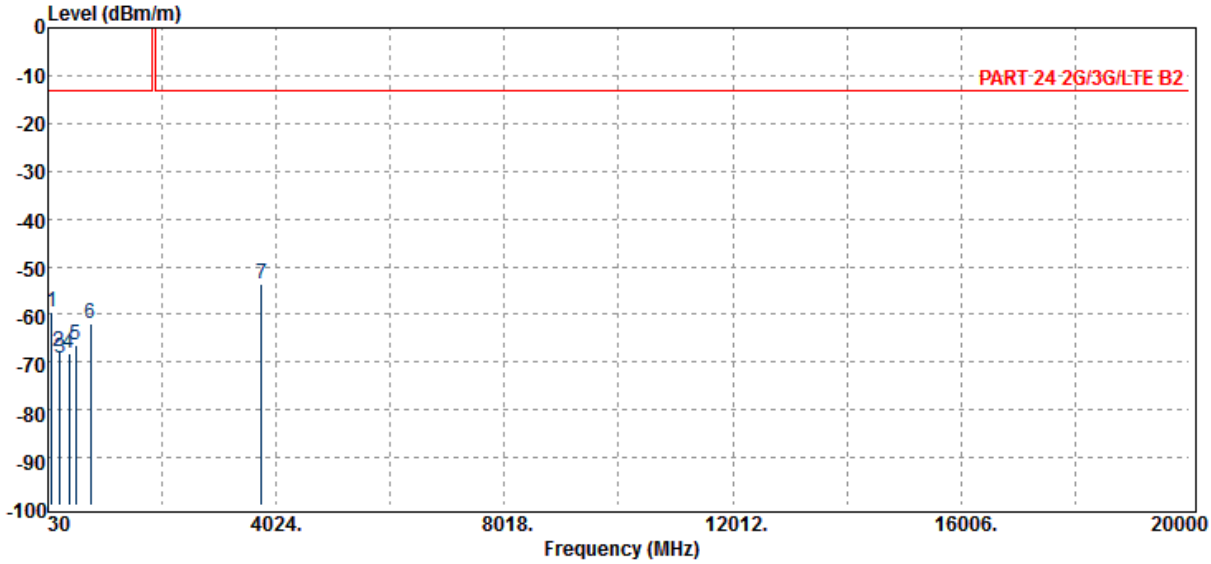
Operation Band	:GPRS 1900	Temp./Humi.	:21 deg_C / 62 RH
Fundamental Frequency	:1880 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
97.90	S	-59.47	-59.00	0.77	-1.24	-13.00	-46.47
219.15	S	-67.92	-71.71	5.49	-1.70	-13.00	-54.92
239.52	S	-69.24	-72.93	5.43	-1.74	-13.00	-56.24
398.60	S	-68.27	-71.87	5.97	-2.37	-13.00	-55.27
519.85	S	-66.50	-70.01	5.90	-2.39	-13.00	-53.50
774.96	S	-61.79	-64.28	5.41	-2.92	-13.00	-48.79
3760.00	H	-53.61	-59.47	12.45	-6.60	-13.00	-40.61

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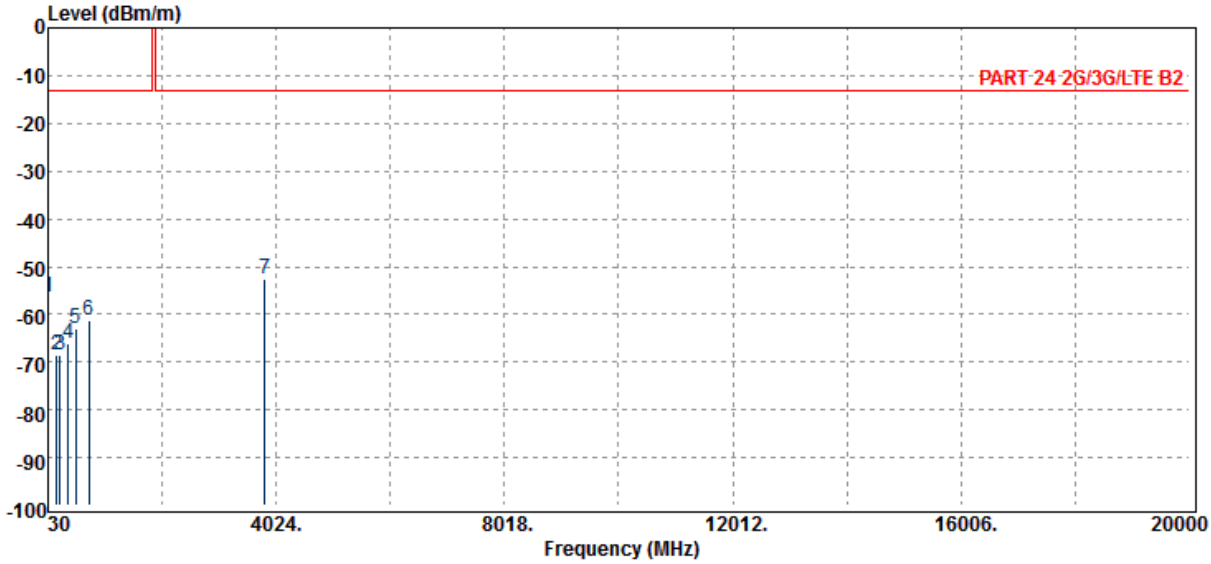
Operation Band	:GPRS 1900	Temp./Humi.	:21 deg_C / 62 RH
Fundamental Frequency	:1909.8 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
37.76	S	-56.36	-44.21	-11.17	-0.98	-13.00	-43.36
175.50	S	-68.55	-69.25	2.24	-1.54	-13.00	-55.55
243.40	S	-68.46	-72.20	5.49	-1.75	-13.00	-55.46
390.84	S	-66.26	-69.91	5.98	-2.33	-13.00	-53.26
517.91	S	-63.06	-66.60	5.91	-2.37	-13.00	-50.06
740.04	S	-61.11	-63.28	5.31	-3.14	-13.00	-48.11
3819.60	H	-52.77	-58.58	12.47	-6.65	-13.00	-39.77

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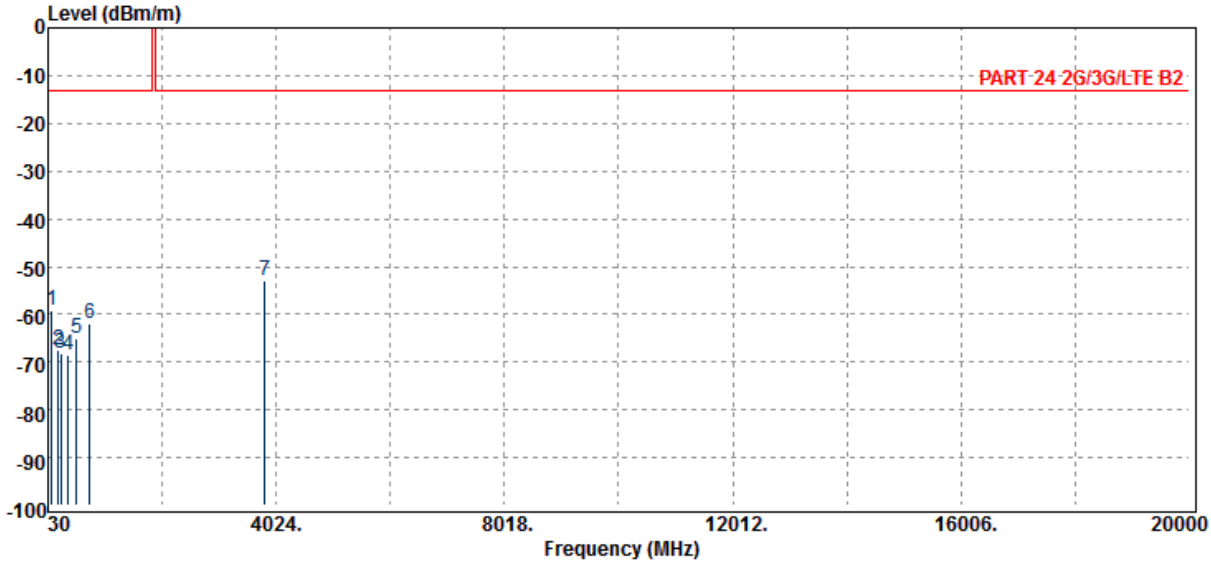
Operation Band	:GPRS 1900	Temp./Humi.	:21 deg_C / 62 RH
Fundamental Frequency	:1909.8 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
95.96	S	-59.04	-58.80	0.99	-1.23	-13.00	-46.04
207.51	S	-67.62	-71.53	5.57	-1.66	-13.00	-54.62
253.10	S	-68.20	-72.11	5.66	-1.76	-13.00	-55.20
388.90	S	-68.39	-72.06	5.98	-2.31	-13.00	-55.39
526.64	S	-65.15	-68.55	5.86	-2.46	-13.00	-52.15
755.56	S	-62.11	-64.42	5.35	-3.04	-13.00	-49.11
3819.60	H	-52.78	-58.60	12.47	-6.65	-13.00	-39.78

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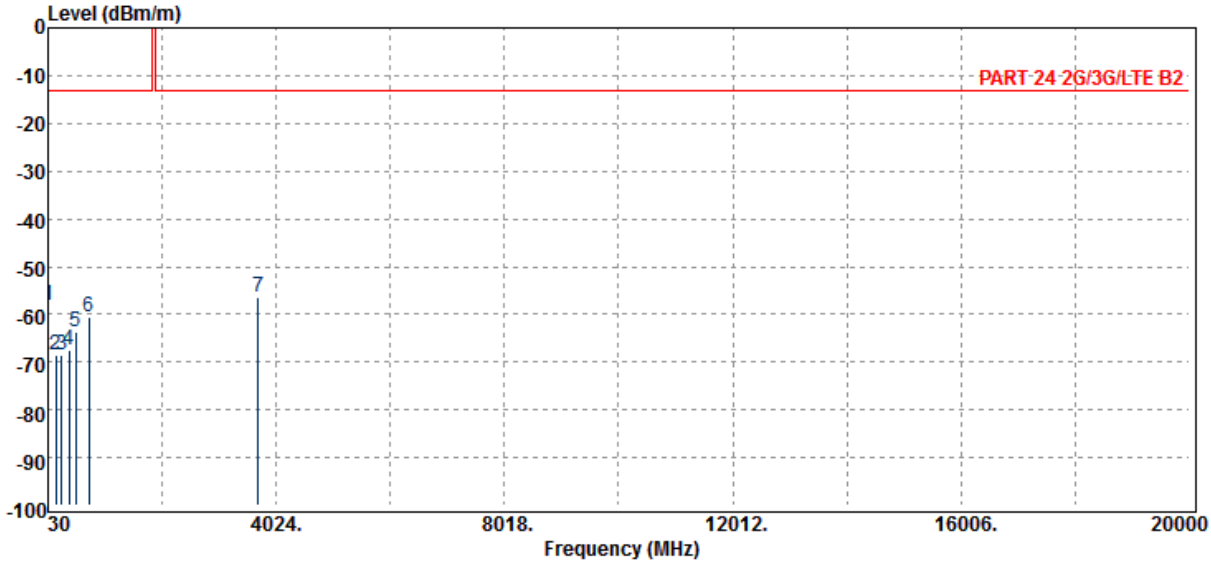
Radiated Spurious Emission Measurement Result: HSDPA Band 2 Mode

Operation Band	:HSDPA B2	Temp./Humi.	:21 deg_C / 62 RH
Fundamental Frequency	:1852.4 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
32.91	S	-58.28	-45.37	-11.94	-0.97	-13.00	-45.28
168.71	S	-68.54	-68.17	1.15	-1.51	-13.00	-55.54
265.71	S	-68.59	-72.52	5.73	-1.80	-13.00	-55.59
403.45	S	-67.41	-70.97	5.96	-2.40	-13.00	-54.41
513.06	S	-63.76	-67.34	5.94	-2.35	-13.00	-50.76
745.86	S	-60.49	-62.71	5.32	-3.10	-13.00	-47.49
3704.80	H	-56.57	-62.43	12.44	-6.58	-13.00	-43.57

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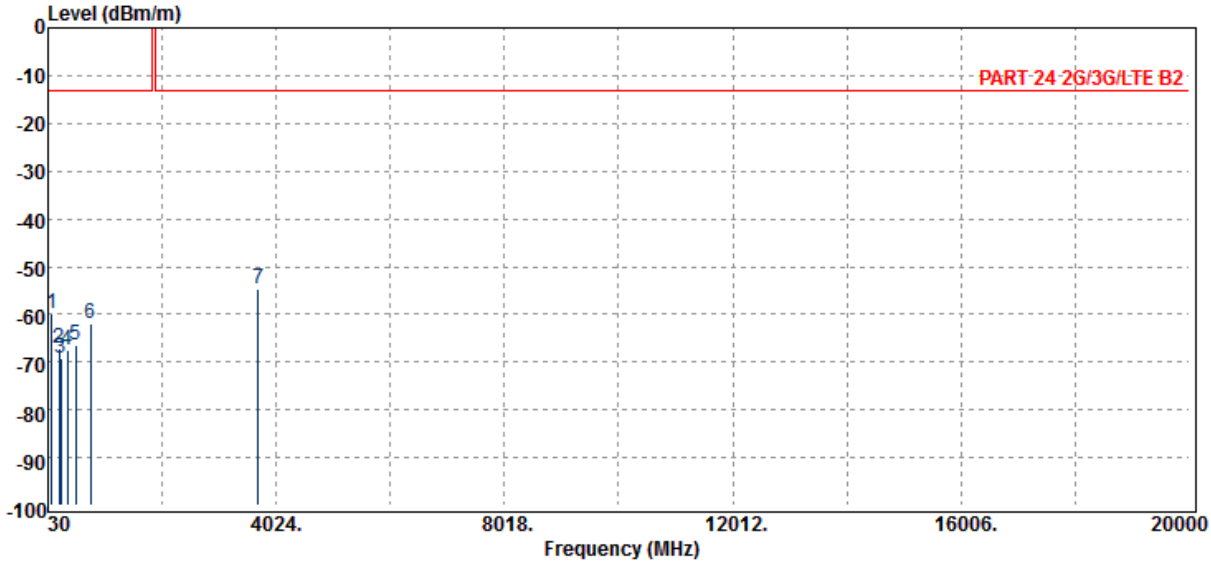
Operation Band	:HSDPA B2	Temp./Humi.	:21 deg_C / 62 RH
Fundamental Frequency	:1852.4 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
95.96	S	-59.69	-59.45	0.99	-1.23	-13.00	-46.69
220.12	S	-67.21	-70.98	5.48	-1.70	-13.00	-54.21
255.04	S	-69.15	-73.09	5.71	-1.76	-13.00	-56.15
371.44	S	-67.50	-71.28	5.99	-2.21	-13.00	-54.50
512.09	S	-66.52	-70.11	5.94	-2.35	-13.00	-53.52
767.20	S	-62.09	-64.51	5.39	-2.97	-13.00	-49.09
3704.80	H	-54.52	-60.38	12.44	-6.58	-13.00	-41.52

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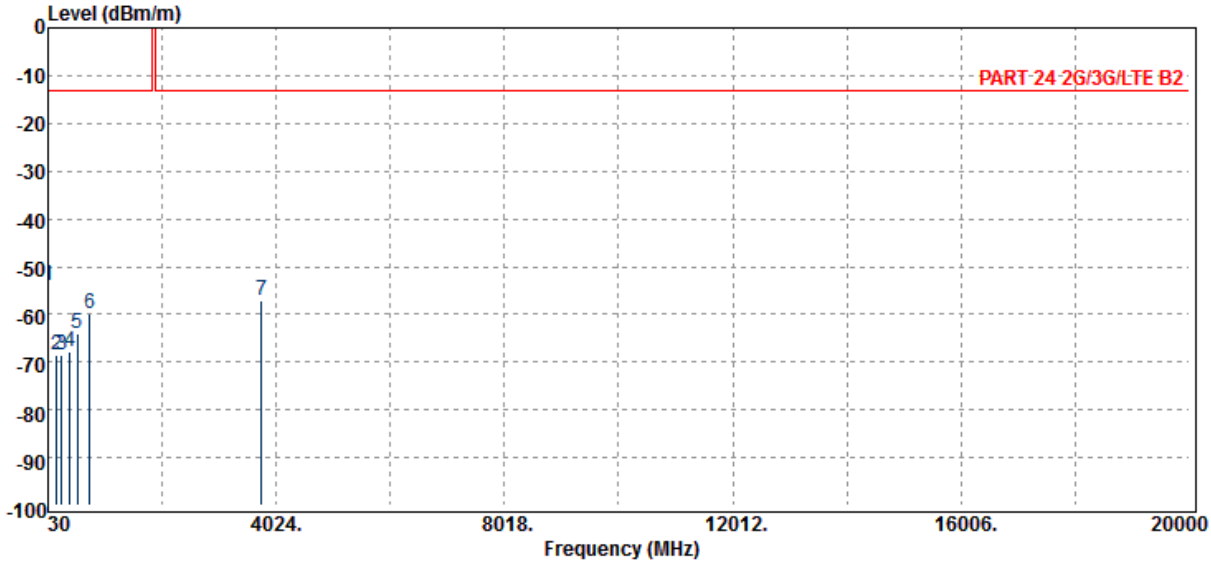
Operation Band	:HSDPA B2	Temp./Humi.	:21 deg_C / 62 RH
Fundamental Frequency	:1880 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
41.64	S	-53.91	-42.23	-10.68	-1.00	-13.00	-40.91
177.44	S	-68.59	-69.62	2.59	-1.55	-13.00	-55.59
274.44	S	-68.50	-72.27	5.62	-1.85	-13.00	-55.50
411.21	S	-67.92	-71.45	5.93	-2.39	-13.00	-54.92
537.31	S	-64.07	-67.31	5.80	-2.57	-13.00	-51.07
759.44	S	-60.03	-62.37	5.36	-3.02	-13.00	-47.03
3760.00	H	-57.06	-62.91	12.45	-6.60	-13.00	-44.06

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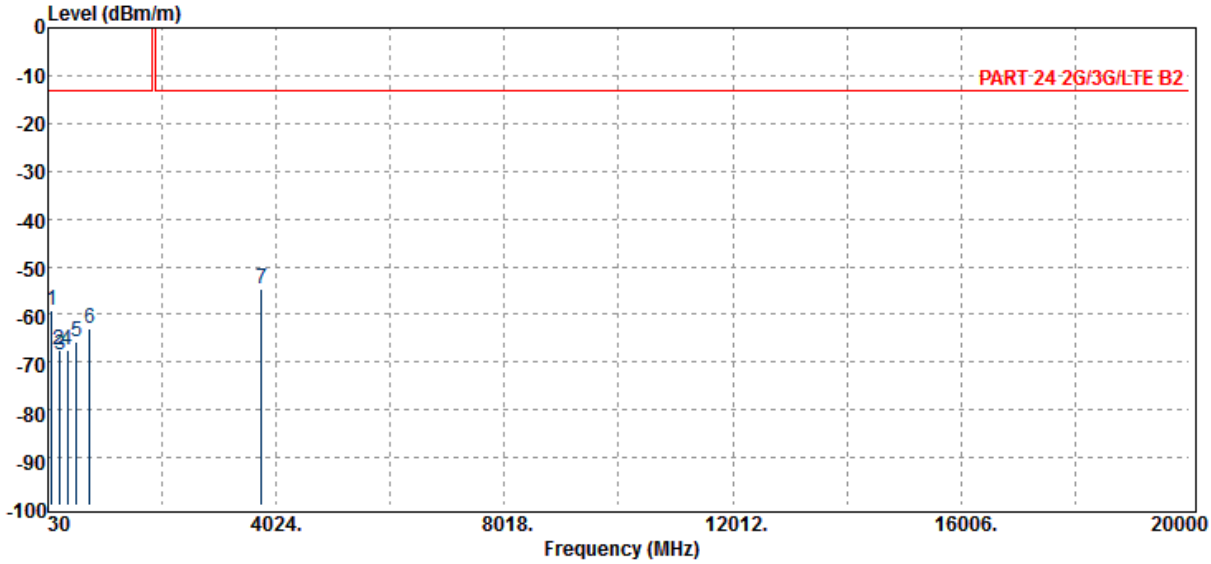
Operation Band	:HSDPA B2	Temp./Humi.	:21 deg_C / 62 RH
Fundamental Frequency	:1880 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
97.90	S	-59.10	-58.62	0.77	-1.24	-13.00	-46.10
219.15	S	-67.46	-71.26	5.49	-1.70	-13.00	-54.46
239.52	S	-68.67	-72.36	5.43	-1.74	-13.00	-55.67
366.59	S	-67.45	-71.27	6.00	-2.17	-13.00	-54.45
524.70	S	-65.70	-69.13	5.87	-2.44	-13.00	-52.70
757.50	S	-62.92	-65.25	5.36	-3.03	-13.00	-49.92
3760.00	H	-54.57	-60.43	12.45	-6.60	-13.00	-41.57

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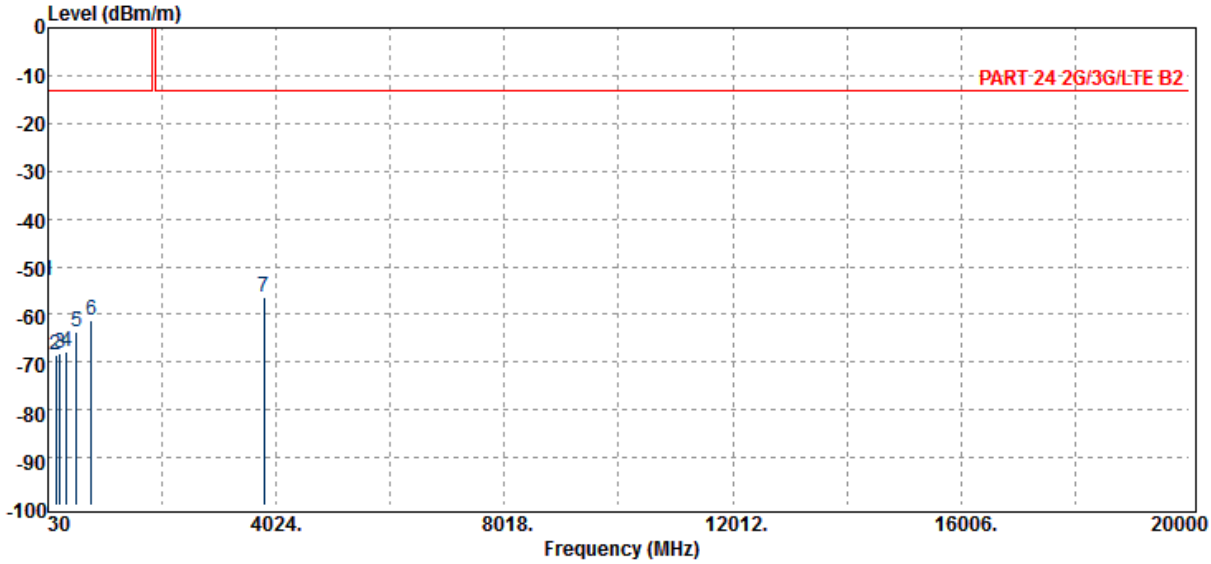
Operation Band	:HSDPA B2	Temp./Humi.	:21 deg_C / 62 RH
Fundamental Frequency	:1907.6 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
41.64	S	-52.91	-41.22	-10.68	-1.00	-13.00	-39.91
173.56	S	-68.57	-68.92	1.89	-1.53	-13.00	-55.57
241.46	S	-68.06	-71.77	5.46	-1.74	-13.00	-55.06
353.01	S	-67.81	-71.75	6.01	-2.07	-13.00	-54.81
522.76	S	-63.75	-67.21	5.88	-2.42	-13.00	-50.75
791.45	S	-61.36	-63.92	5.47	-2.90	-13.00	-48.36
3815.20	H	-56.46	-62.29	12.46	-6.63	-13.00	-43.46

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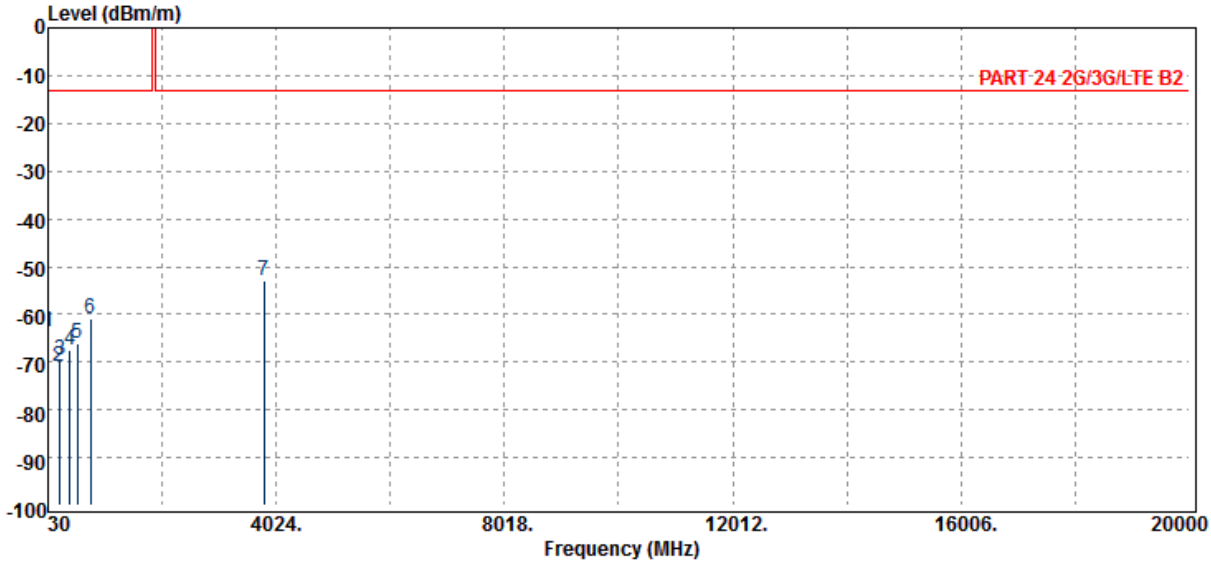
Operation Band	:HSDPA B2	Temp./Humi.	:21 deg_C / 62 RH
Fundamental Frequency	:1907.6 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	S	-63.65	-50.07	-12.63	-0.96	-13.00	-50.65
220.12	S	-70.82	-74.59	5.48	-1.70	-13.00	-57.82
243.40	S	-69.45	-73.19	5.49	-1.75	-13.00	-56.45
413.15	S	-67.62	-71.17	5.92	-2.38	-13.00	-54.62
537.31	S	-65.97	-69.20	5.80	-2.57	-13.00	-52.97
774.96	S	-60.76	-63.25	5.41	-2.92	-13.00	-47.76
3815.20	H	-52.90	-58.74	12.46	-6.63	-13.00	-39.90

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t (886-2) 2299-3279 f (886-2) 2298-0488 www.tw.sgs.com
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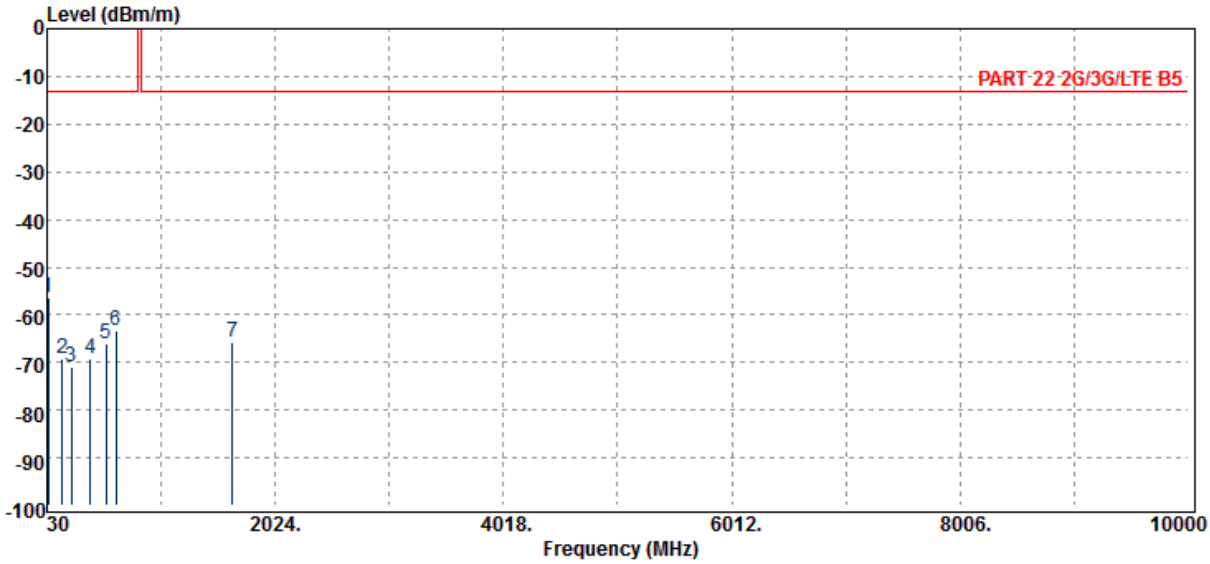
Radiated Spurious Emission Measurement Result: HSDPA Band 5 Mode

Operation Band	:HSDPA B5	Temp./Humi.	:21 deg_C / 62 RH
Fundamental Frequency	:826.4 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
42.61	S	-54.26	-42.71	-10.54	-1.01	-13	-41.26
165.80	S	-66.99	-66.43	0.94	-1.50	-13	-53.99
240.49	S	-68.65	-72.35	5.44	-1.74	-13	-55.65
410.24	S	-67.05	-70.58	5.93	-2.40	-13	-54.05
546.04	S	-63.81	-66.91	5.76	-2.66	-13	-50.81
634.31	S	-61.14	-64.01	5.32	-2.45	-13	-48.14
1652.80	H	-63.69	-68.72	9.27	-4.24	-13	-50.69

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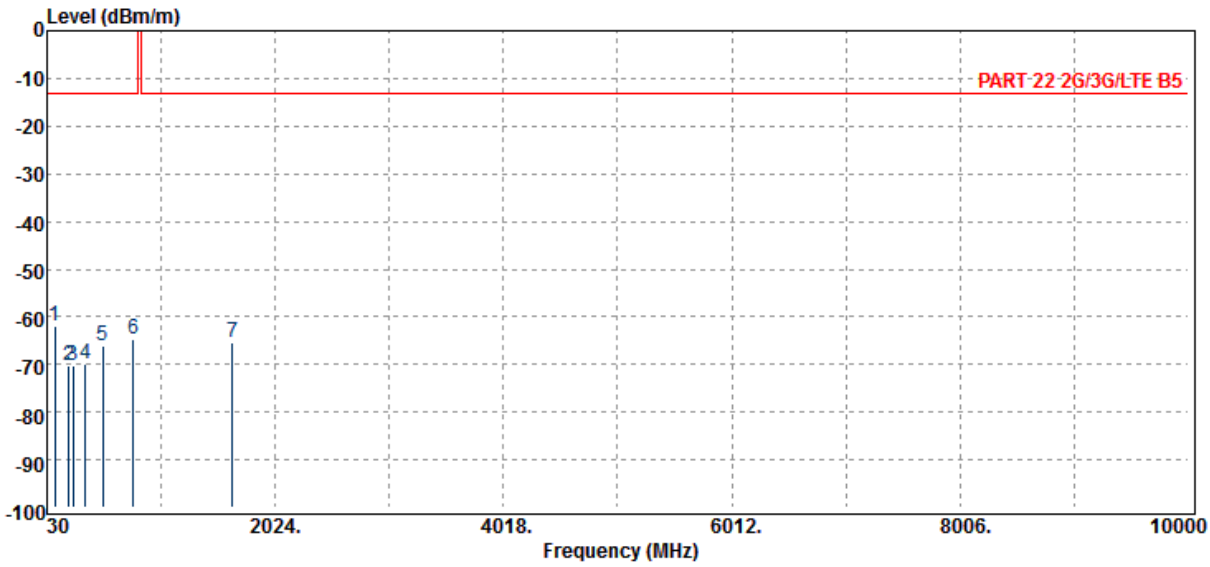
Operation Band	:HSDPA B5	Temp./Humi.	:21 deg_C / 62 RH
Fundamental Frequency	:826.4 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
97.90	S	-59.69	-59.22	0.77	-1.24	-13	-46.69
219.15	S	-67.93	-71.72	5.49	-1.70	-13	-54.93
256.01	S	-68.05	-72.01	5.73	-1.77	-13	-55.05
362.71	S	-67.61	-71.46	6.00	-2.15	-13	-54.61
516.94	S	-63.81	-67.35	5.91	-2.37	-13	-50.81
783.69	S	-62.52	-65.05	5.44	-2.91	-13	-49.52
1652.80	H	-63.29	-68.32	9.27	-4.24	-13	-50.29

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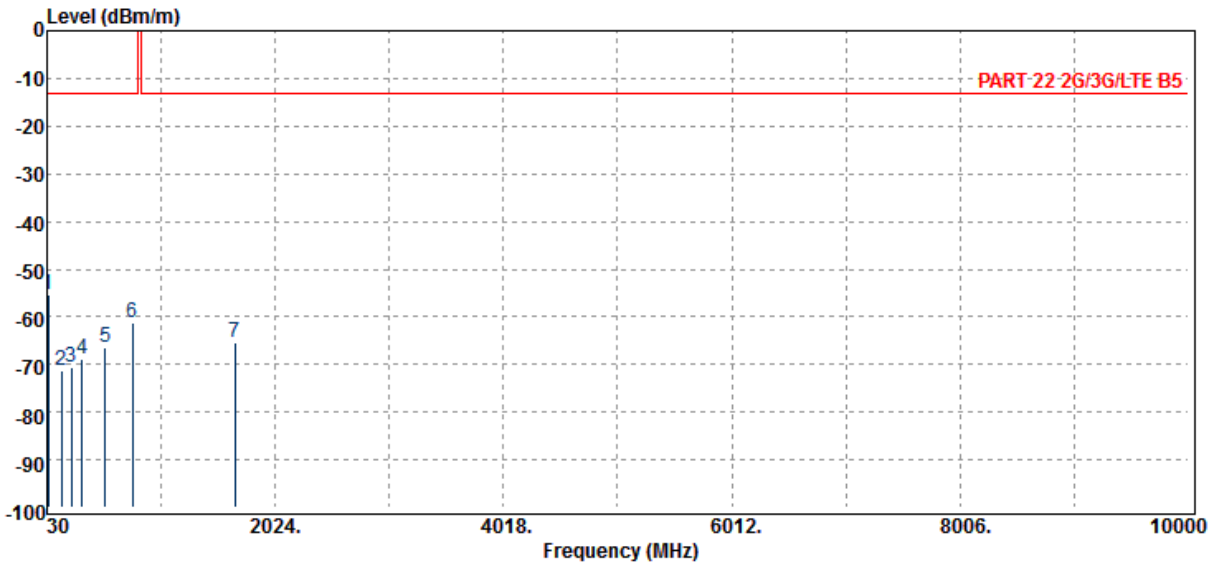
Operation Band	:HSDPA B5	Temp./Humi.	:21 deg_C / 62 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
41.64	S	-53.37	-41.69	-10.68	-1.00	-13	-40.37
154.16	S	-69.13	-67.93	0.25	-1.45	-13	-56.13
243.40	S	-68.46	-72.20	5.49	-1.75	-13	-55.46
335.55	S	-66.72	-70.74	5.95	-1.93	-13	-53.72
541.19	S	-64.44	-67.61	5.78	-2.61	-13	-51.44
774.96	S	-59.16	-61.65	5.41	-2.92	-13	-46.16
1673.20	H	-63.12	-68.18	9.35	-4.29	-13	-50.12

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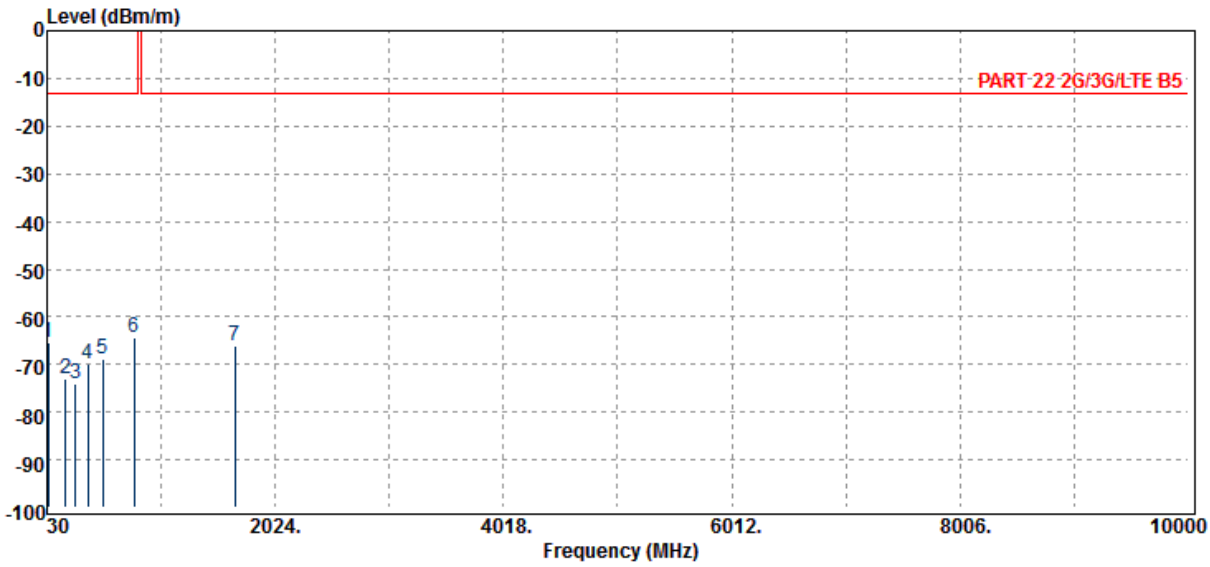
Operation Band	:HSDPA B5	Temp./Humi.	:21 deg_C / 62 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
37.76	S	-63.22	-51.07	-11.17	-0.98	-13	-50.22
194.90	S	-70.72	-74.08	4.98	-1.62	-13	-57.72
279.29	S	-71.98	-75.69	5.58	-1.87	-13	-58.98
386.96	S	-67.69	-71.37	5.98	-2.30	-13	-54.69
515.00	S	-66.78	-70.34	5.92	-2.36	-13	-53.78
789.51	S	-62.34	-64.90	5.46	-2.90	-13	-49.34
1673.20	H	-63.81	-68.87	9.35	-4.29	-13	-50.81

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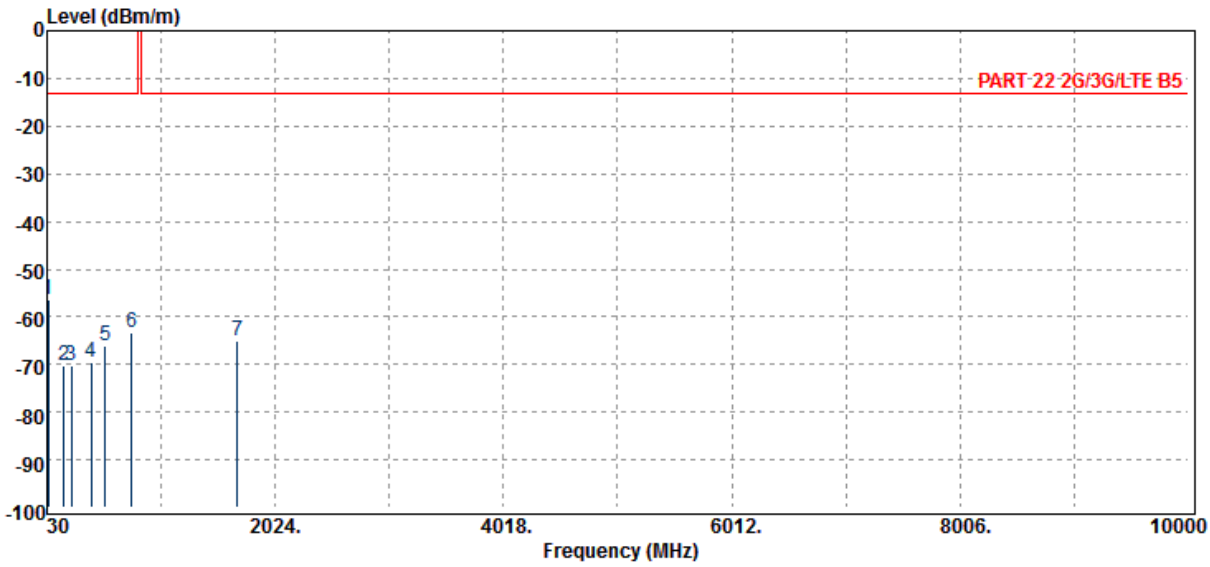
Operation Band	:HSDPA B5	Temp./Humi.	:21 deg_C / 62 RH
Fundamental Frequency	:846.6 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
41.64	S	-54.28	-42.60	-10.68	-1.00	-13	-41.28
178.41	S	-68.24	-69.45	2.76	-1.55	-13	-55.24
245.34	S	-67.97	-71.74	5.52	-1.75	-13	-54.97
415.09	S	-67.43	-70.98	5.92	-2.37	-13	-54.43
536.34	S	-64.09	-67.34	5.81	-2.56	-13	-51.09
769.14	S	-61.27	-63.70	5.39	-2.96	-13	-48.27
1693.20	H	-62.82	-67.94	9.42	-4.30	-13	-49.82

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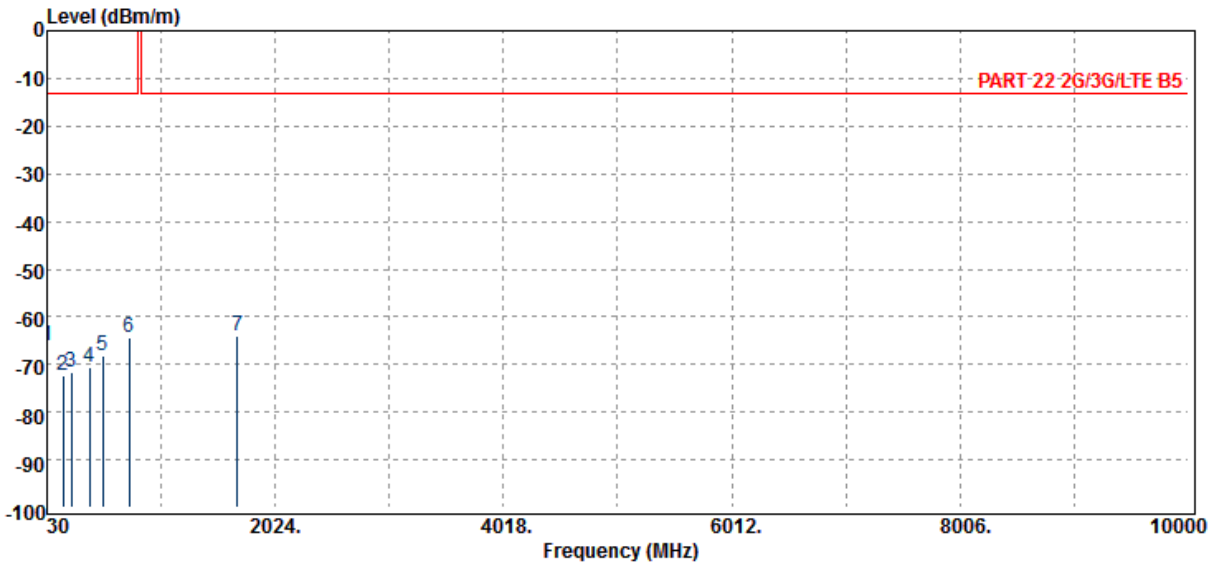
Operation Band	:HSDPA B5	Temp./Humi.	:21 deg_C / 62 RH
Fundamental Frequency	:846.6 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	S	-63.82	-50.23	-12.63	-0.96	-13	-50.82
173.56	S	-70.34	-70.70	1.89	-1.53	-13	-57.34
243.40	S	-69.35	-73.09	5.49	-1.75	-13	-56.35
403.45	S	-68.32	-71.88	5.96	-2.40	-13	-55.32
517.91	S	-66.07	-69.61	5.91	-2.37	-13	-53.07
747.80	S	-62.10	-64.34	5.33	-3.09	-13	-49.10
1693.20	H	-61.82	-66.94	9.42	-4.30	-13	-48.82

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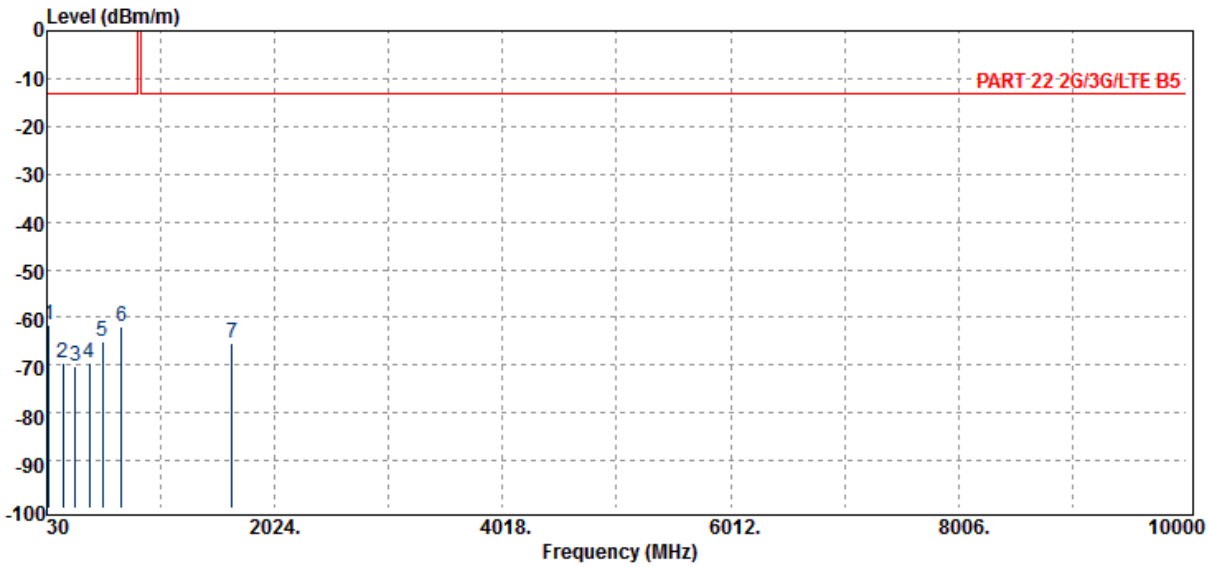
Radiated Spurious Emission Measurement Result: LTE-Band 5 (The Worst Case)

Operation Band	:LTE B5	Temp./Humi.	:22 deg_C / 61 RH
Fundamental Frequency	:826.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
44.55	S	-59.44	-48.15	-10.27	-1.02	-13	-46.44
167.74	S	-67.27	-66.84	1.08	-1.51	-13	-54.27
282.20	S	-67.94	-71.62	5.57	-1.89	-13	-54.94
403.45	S	-67.31	-70.87	5.96	-2.40	-13	-54.31
516.94	S	-63.00	-66.54	5.91	-2.37	-13	-50.00
683.78	S	-59.96	-62.52	5.25	-2.69	-13	-46.96
1653.00	H	-63.10	-68.13	9.27	-4.24	-13	-50.10

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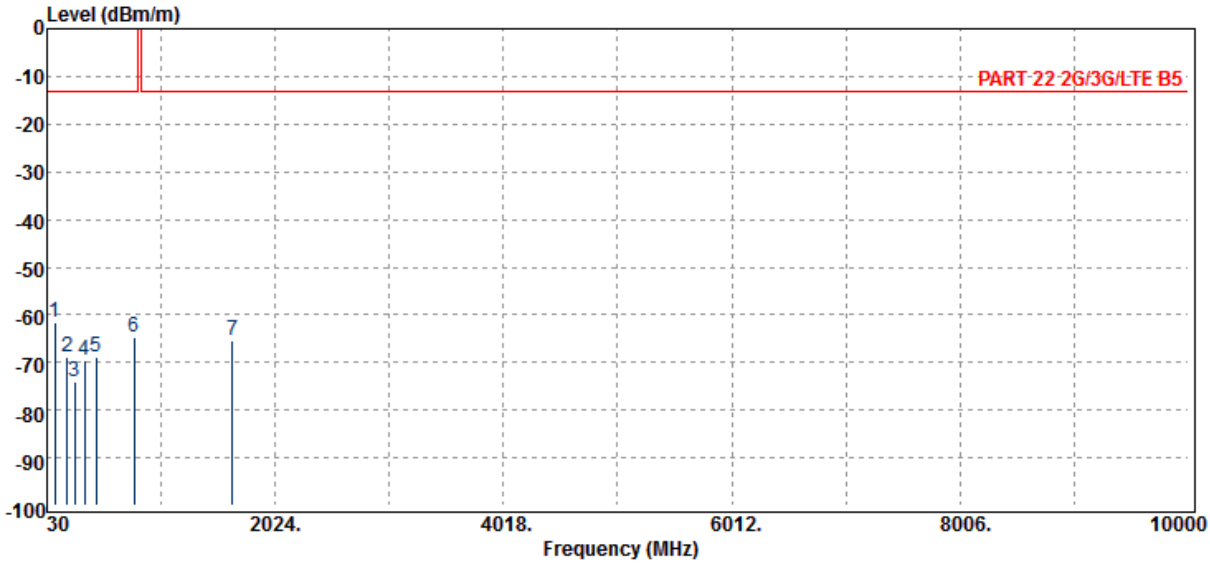
Operation Band	:LTE B5	Temp./Humi.	:22 deg_C / 61 RH
Fundamental Frequency	:826.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
97.90	S	-59.38	-58.91	0.77	-1.24	-13	-46.38
207.51	S	-66.72	-70.63	5.57	-1.66	-13	-53.72
274.44	S	-72.05	-75.82	5.62	-1.85	-13	-59.05
361.74	S	-67.32	-71.18	6.00	-2.14	-13	-54.32
459.71	S	-66.59	-70.22	5.84	-2.21	-13	-53.59
794.36	S	-62.46	-65.03	5.47	-2.90	-13	-49.46
1653.00	H	-63.15	-68.18	9.27	-4.24	-13	-50.15

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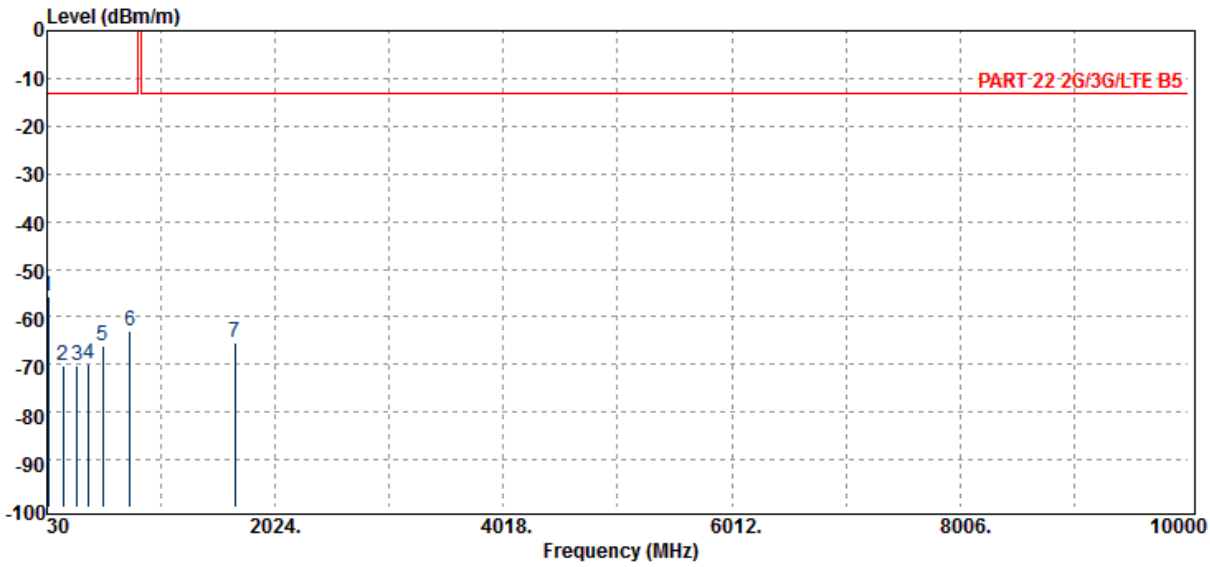
Operation Band	:LTE B5	Temp./Humi.	:22 deg_C / 61 RH
Fundamental Frequency	:836.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
41.64	S	-53.61	-41.93	-10.68	-1.00	-13	-40.61
173.56	S	-68.11	-68.47	1.89	-1.53	-13	-55.11
296.75	S	-68.10	-71.86	5.71	-1.95	-13	-55.10
395.69	S	-67.72	-71.34	5.97	-2.35	-13	-54.72
519.85	S	-63.87	-67.38	5.90	-2.39	-13	-50.87
755.56	S	-60.81	-63.12	5.35	-3.04	-13	-47.81
1673.00	H	-63.38	-68.44	9.35	-4.29	-13	-50.38

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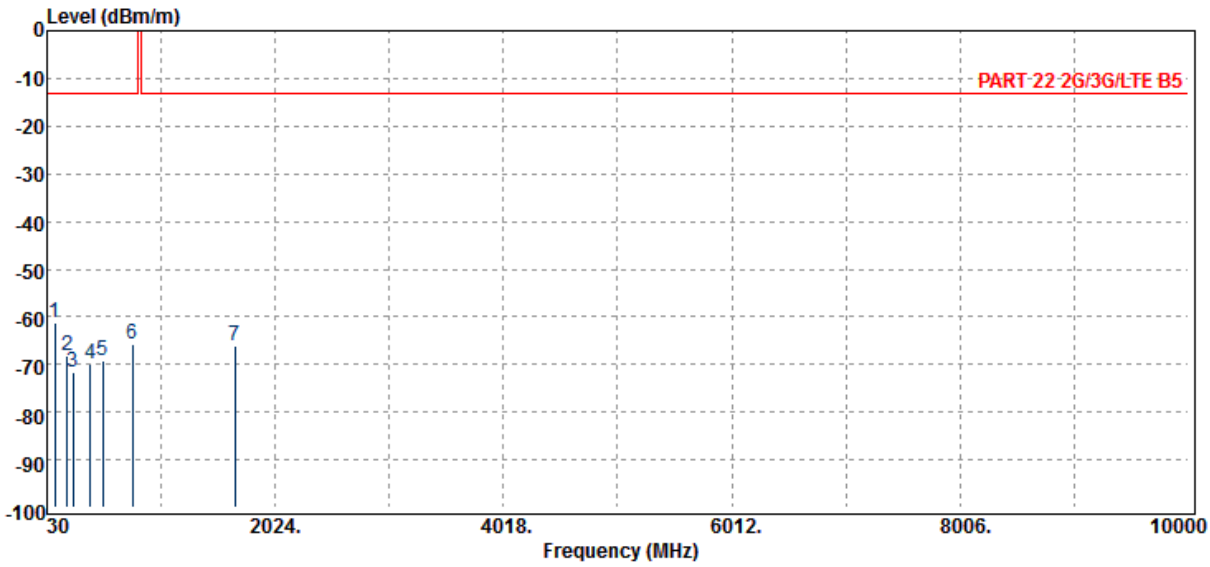
Operation Band	:LTE B5	Temp./Humi.	:22 deg_C / 61 RH
Fundamental Frequency	:836.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
94.99	S	-59.23	-59.11	1.11	-1.23	-13	-46.23
206.54	S	-65.92	-69.79	5.53	-1.66	-13	-52.92
257.95	S	-69.51	-73.52	5.78	-1.77	-13	-56.51
410.24	S	-67.79	-71.32	5.93	-2.40	-13	-54.79
517.91	S	-67.03	-70.57	5.91	-2.37	-13	-54.03
774.96	S	-63.51	-66.00	5.41	-2.92	-13	-50.51
1673.00	H	-63.80	-68.86	9.35	-4.29	-13	-50.80

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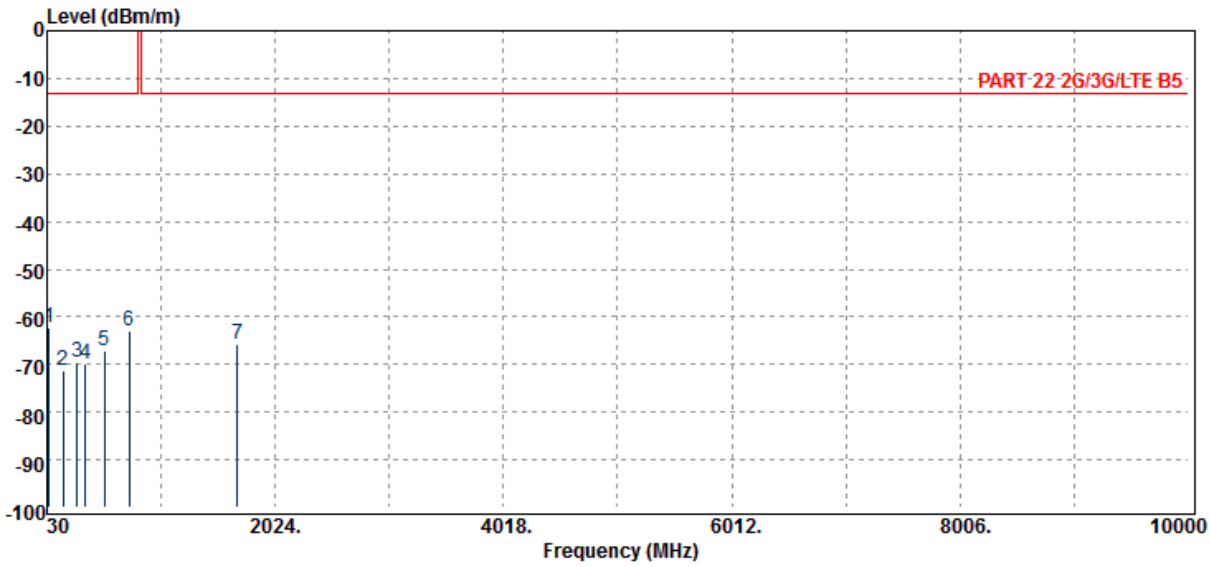
Operation Band	:LTE B5	Temp./Humi.	:22 deg_C / 61 RH
Fundamental Frequency	:846.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
44.55	S	-60.23	-48.94	-10.27	-1.02	-13	-47.23
173.56	S	-69.23	-69.59	1.89	-1.53	-13	-56.23
296.75	S	-67.41	-71.17	5.71	-1.95	-13	-54.41
366.59	S	-67.84	-71.67	6.00	-2.17	-13	-54.84
531.49	S	-64.94	-68.27	5.84	-2.51	-13	-51.94
744.89	S	-60.77	-62.98	5.32	-3.11	-13	-47.77
1693.00	H	-63.52	-68.64	9.42	-4.30	-13	-50.52

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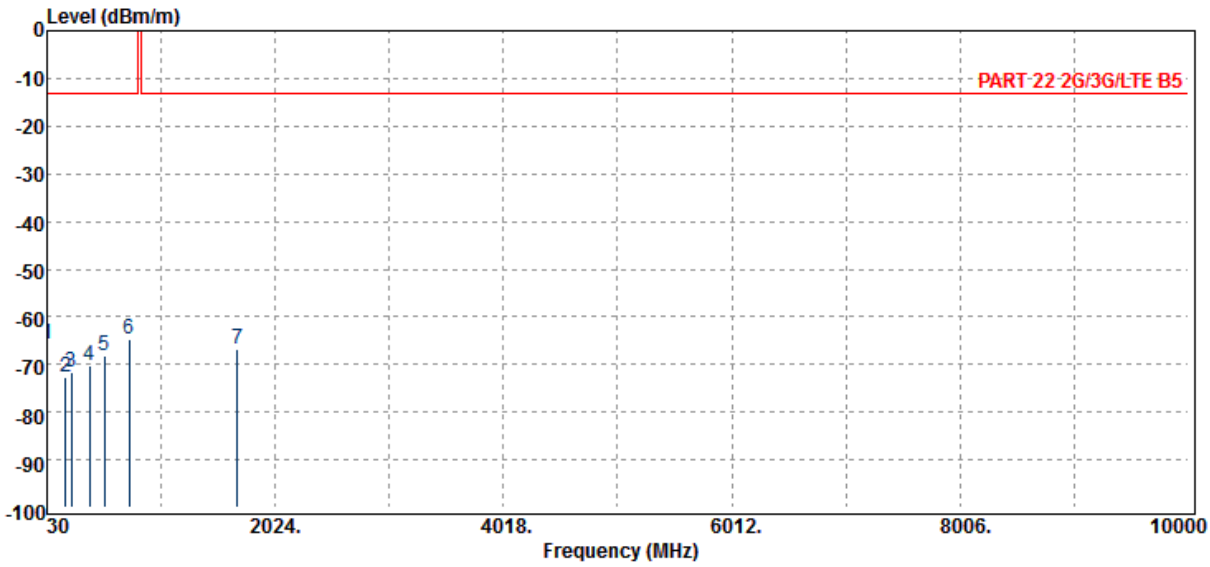
Operation Band	:LTE B5	Temp./Humi.	:22 deg_C / 61 RH
Fundamental Frequency	:846.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	S	-63.44	-49.85	-12.63	-0.96	-13	-50.44
194.90	S	-70.44	-73.80	4.98	-1.62	-13	-57.44
245.34	S	-69.43	-73.20	5.52	-1.75	-13	-56.43
403.45	S	-68.14	-71.70	5.96	-2.40	-13	-55.14
534.40	S	-66.10	-69.38	5.82	-2.54	-13	-53.10
750.71	S	-62.51	-64.77	5.33	-3.07	-13	-49.51
1693.00	H	-64.61	-69.73	9.42	-4.30	-13	-51.61

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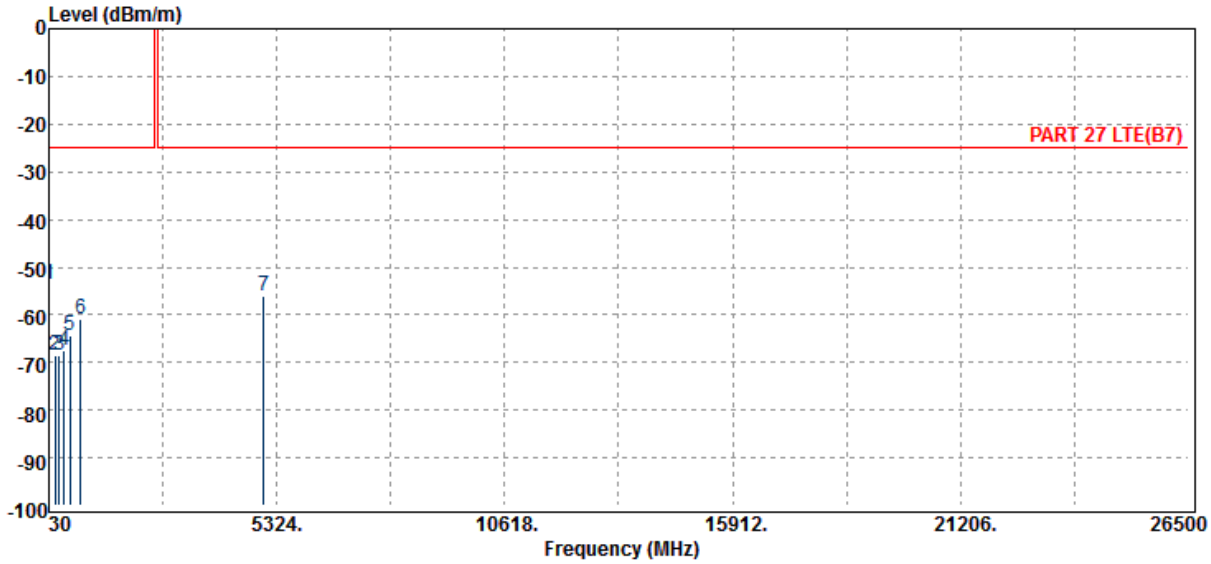
Radiated Spurious Emission Measurement Result: LTE-Band 7 (The Worst Case)

Operation Band	:LTE B7	Temp./Humi.	:21 deg_C / 62 RH
Fundamental Frequency	:2505 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
39.70	S	-53.49	-41.53	-10.96	-0.99	-25.00	-28.49
165.80	S	-68.68	-68.11	0.94	-1.50	-25.00	-43.68
274.44	S	-68.43	-72.20	5.62	-1.85	-25.00	-43.43
379.20	S	-67.37	-71.10	5.99	-2.26	-25.00	-42.37
526.64	S	-64.49	-67.89	5.86	-2.46	-25.00	-39.49
767.20	S	-60.89	-63.31	5.39	-2.97	-25.00	-35.89
5010.00	H	-56.02	-60.91	12.70	-7.81	-25.00	-31.02

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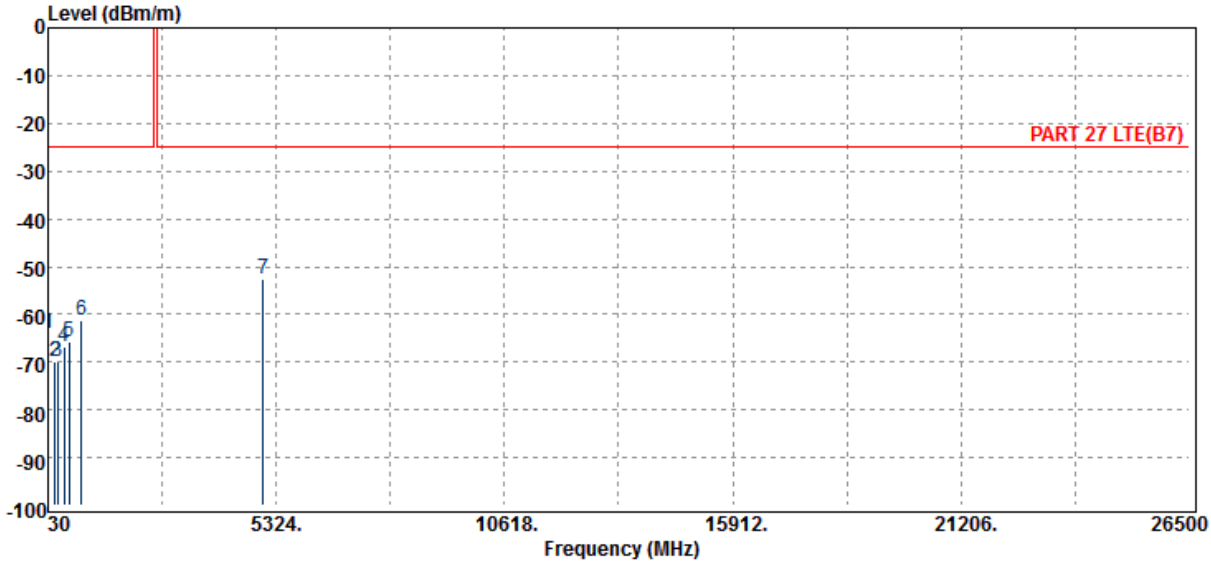
Operation Band	:LTE B7	Temp./Humi.	:21 deg_C / 62 RH
Fundamental Frequency	:2505 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
37.76	S	-63.87	-51.72	-11.17	-0.98	-25.00	-38.87
198.78	S	-69.97	-73.53	5.19	-1.63	-25.00	-44.97
243.40	S	-69.92	-73.66	5.49	-1.75	-25.00	-44.92
411.21	S	-66.71	-70.24	5.93	-2.39	-25.00	-41.71
521.79	S	-65.72	-69.20	5.89	-2.41	-25.00	-40.72
796.30	S	-61.21	-63.79	5.48	-2.90	-25.00	-36.21
5010.00	H	-52.75	-57.64	12.70	-7.81	-25.00	-27.75

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No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號
t (886-2) 2299-3279 f (886-2) 2298-0488 www.tw.sgs.com
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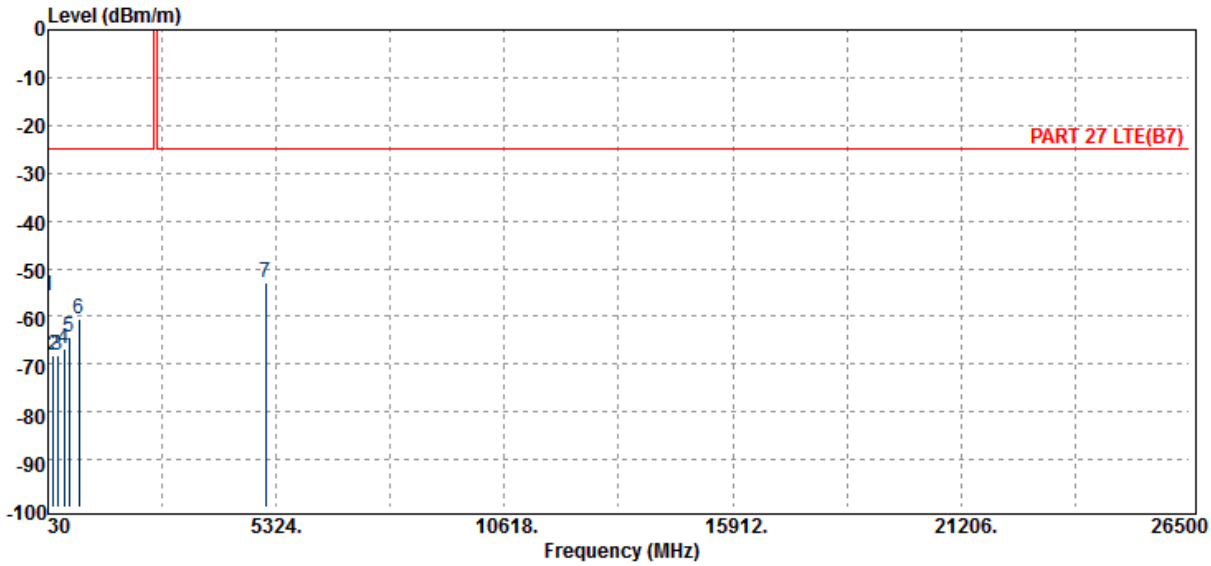
Operation Band	:LTE B7	Temp./Humi.	:21 deg_C / 62 RH
Fundamental Frequency	:2535.0 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
37.76	S	-55.72	-43.57	-11.17	-0.98	-25.00	-30.72
160.95	S	-68.27	-67.37	0.58	-1.48	-25.00	-43.27
246.31	S	-68.19	-71.97	5.53	-1.75	-25.00	-43.19
395.69	S	-66.72	-70.34	5.97	-2.35	-25.00	-41.72
516.94	S	-64.29	-67.84	5.91	-2.37	-25.00	-39.29
750.71	S	-60.42	-62.68	5.33	-3.07	-25.00	-35.42
5070.00	H	-53.10	-57.97	12.73	-7.86	-25.00	-28.10

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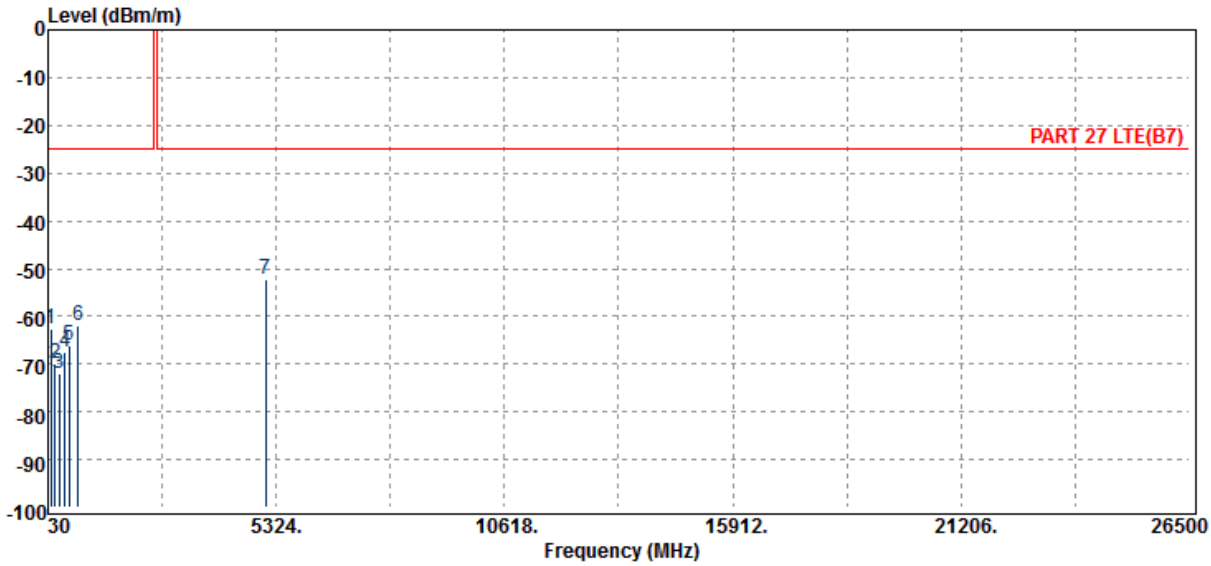
Operation Band	:LTE B7	Temp./Humi.	:21 deg_C / 62 RH
Fundamental Frequency	:2535.0 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
97.90	S	-62.63	-62.16	0.77	-1.24	-25.00	-37.63
191.99	S	-70.02	-73.23	4.82	-1.61	-25.00	-45.02
285.11	S	-71.93	-75.60	5.58	-1.90	-25.00	-46.93
415.09	S	-67.41	-70.96	5.92	-2.37	-25.00	-42.41
526.64	S	-65.92	-69.32	5.86	-2.46	-25.00	-40.92
738.10	S	-61.98	-64.15	5.31	-3.13	-25.00	-36.98
5070.00	H	-52.32	-57.19	12.73	-7.86	-25.00	-27.32

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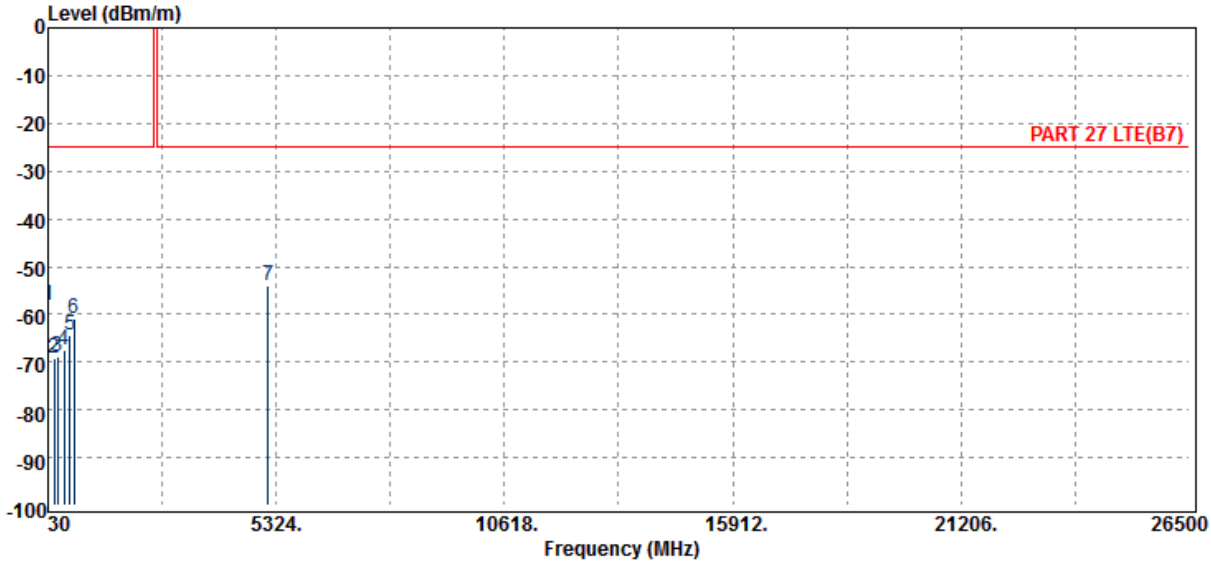
Operation Band	:LTE B7	Temp./Humi.	:21 deg_C / 62 RH
Fundamental Frequency	:2565 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
36.79	S	-58.08	-45.82	-11.28	-0.98	-25.00	-33.08
178.41	S	-69.33	-70.53	2.76	-1.55	-25.00	-44.33
243.40	S	-68.75	-72.49	5.49	-1.75	-25.00	-43.75
400.54	S	-67.55	-71.14	5.97	-2.38	-25.00	-42.55
542.16	S	-64.23	-67.39	5.78	-2.62	-25.00	-39.23
628.49	S	-60.77	-63.63	5.33	-2.47	-25.00	-35.77
5130.00	H	-54.03	-58.87	12.75	-7.92	-25.00	-29.03

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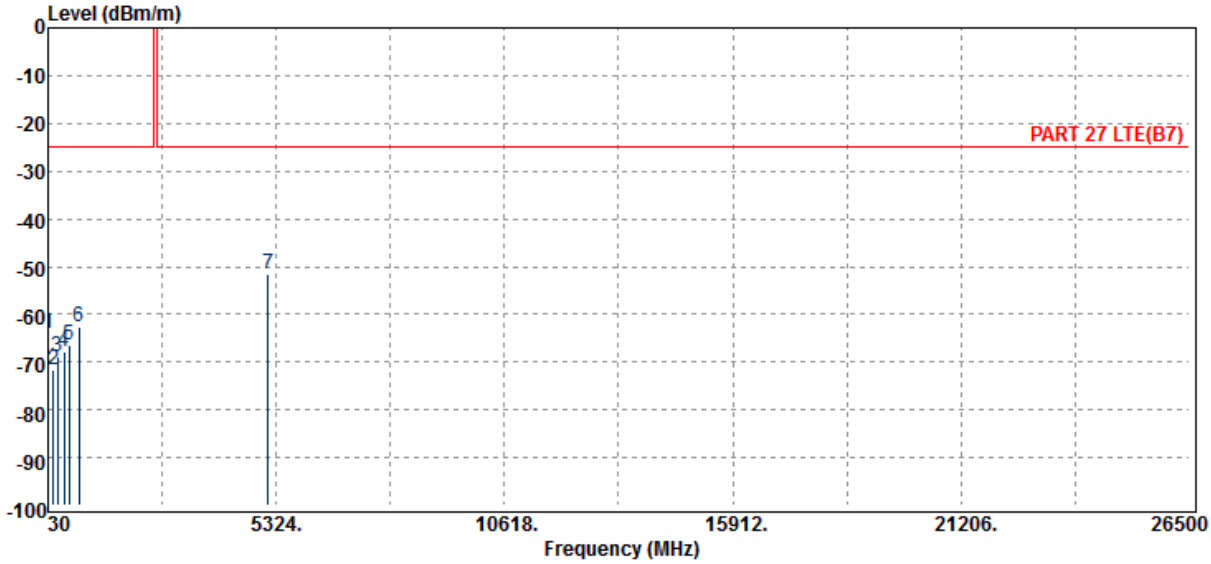
Operation Band	:LTE B7	Temp./Humi.	:21 deg_C / 62 RH
Fundamental Frequency	:2565 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	S	-64.10	-50.52	-12.63	-0.96	-25.00	-39.10
153.19	S	-71.52	-70.28	0.20	-1.44	-25.00	-46.52
241.46	S	-68.84	-72.55	5.46	-1.74	-25.00	-43.84
411.21	S	-67.76	-71.30	5.93	-2.39	-25.00	-42.76
513.06	S	-66.60	-70.18	5.94	-2.35	-25.00	-41.60
744.89	S	-62.50	-64.72	5.32	-3.11	-25.00	-37.50
5130.00	H	-51.50	-56.34	12.75	-7.92	-25.00	-26.50

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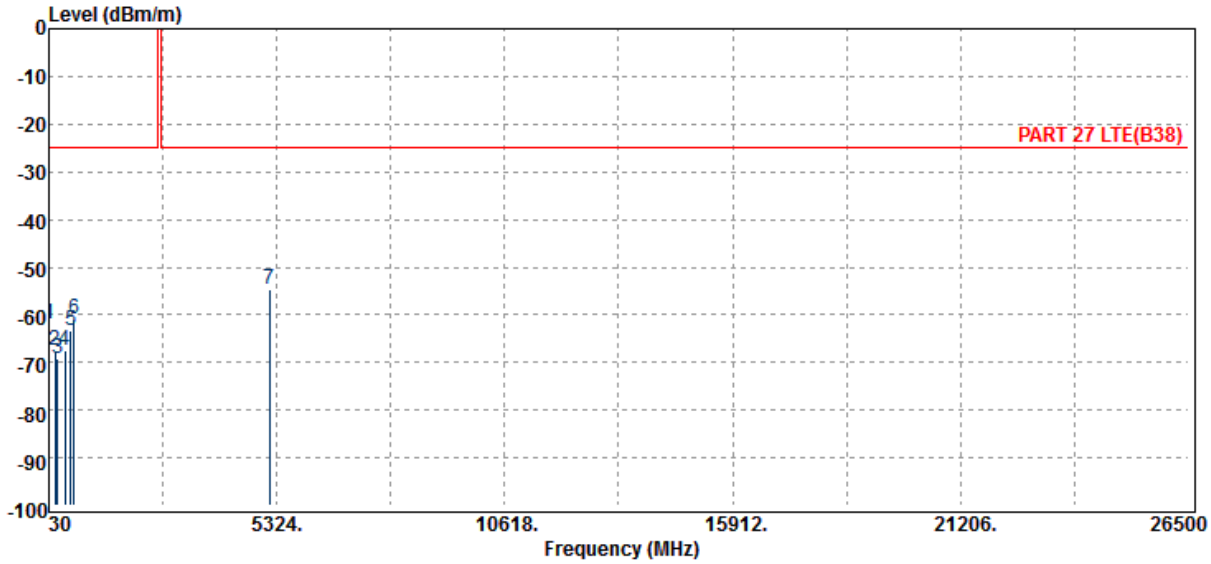
Radiated Spurious Emission Measurement Result: LTE-Band 38 (The Worst Case)

Operation Band	:LTE B38	Temp./Humi.	:22 deg_C / 61 RH
Fundamental Frequency	:2572.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
36.79	S	-62.09	-49.84	-11.28	-0.98	-25.00	-37.09
172.59	S	-67.41	-67.60	1.71	-1.53	-25.00	-42.41
240.49	S	-69.12	-72.83	5.44	-1.74	-25.00	-44.12
410.24	S	-67.46	-71.00	5.93	-2.40	-25.00	-42.46
541.19	S	-63.30	-66.48	5.78	-2.61	-25.00	-38.30
619.76	S	-60.88	-63.68	5.35	-2.55	-25.00	-35.88
5145.00	H	-54.55	-59.37	12.76	-7.94	-25.00	-29.55

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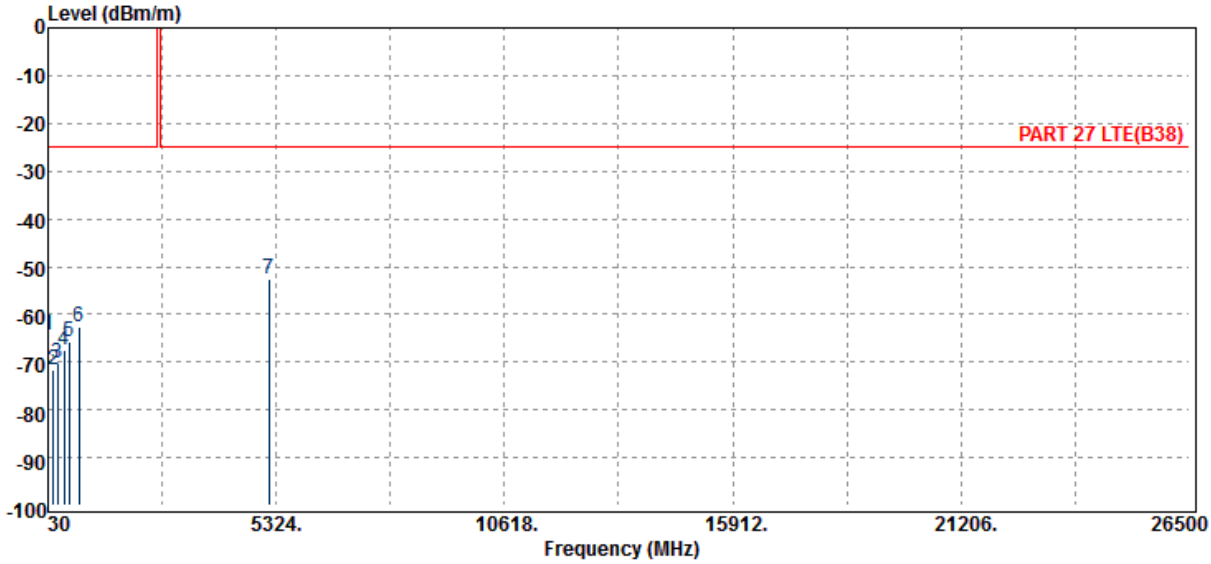
Operation Band	:LTE B38	Temp./Humi.	:22 deg_C / 61 RH
Fundamental Frequency	:2572.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
46.49	S	-64.29	-53.37	-9.89	-1.03	-25.00	-39.29
153.19	S	-71.59	-70.35	0.20	-1.44	-25.00	-46.59
243.40	S	-70.07	-73.82	5.49	-1.75	-25.00	-45.07
403.45	S	-67.64	-71.20	5.96	-2.40	-25.00	-42.64
512.09	S	-65.66	-69.26	5.94	-2.35	-25.00	-40.66
744.89	S	-62.70	-64.91	5.32	-3.11	-25.00	-37.70
5145.00	H	-52.43	-57.25	12.76	-7.94	-25.00	-27.43

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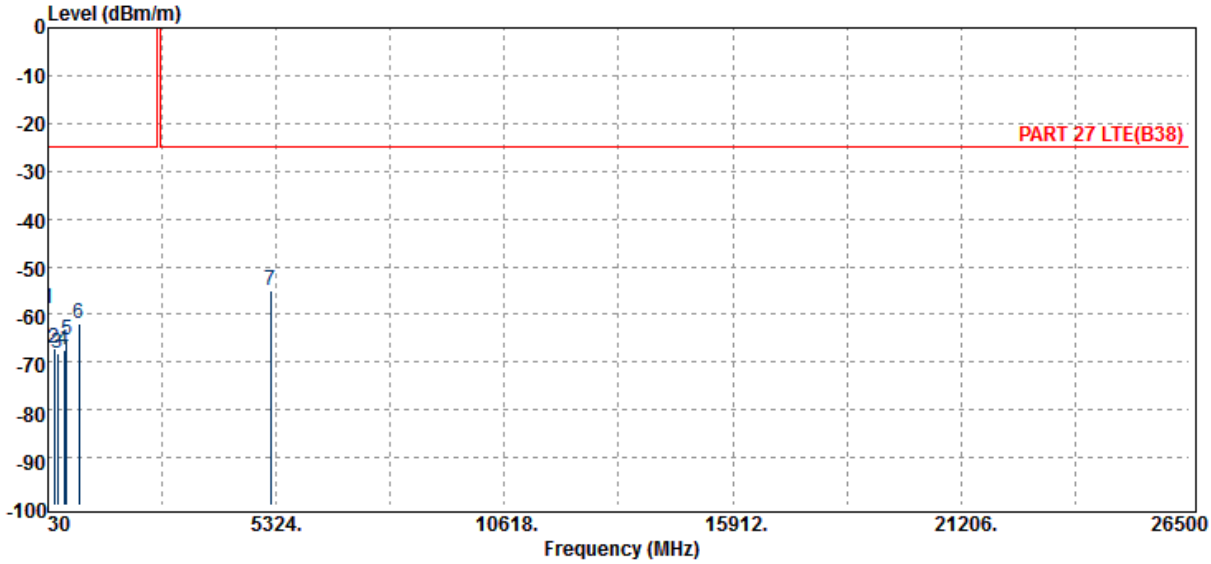
Operation Band	:LTE B38	Temp./Humi.	:22 deg_C / 61 RH
Fundamental Frequency	:2595.0 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
32.91	S	-58.68	-45.77	-11.94	-0.97	-25.00	-33.68
173.56	S	-67.16	-67.52	1.89	-1.53	-25.00	-42.16
248.25	S	-68.03	-71.84	5.56	-1.75	-25.00	-43.03
405.39	S	-67.58	-71.12	5.95	-2.41	-25.00	-42.58
453.89	S	-65.24	-68.85	5.81	-2.20	-25.00	-40.24
750.71	S	-61.80	-64.07	5.33	-3.07	-25.00	-36.80
5190.00	H	-54.92	-59.75	12.78	-7.95	-25.00	-29.92

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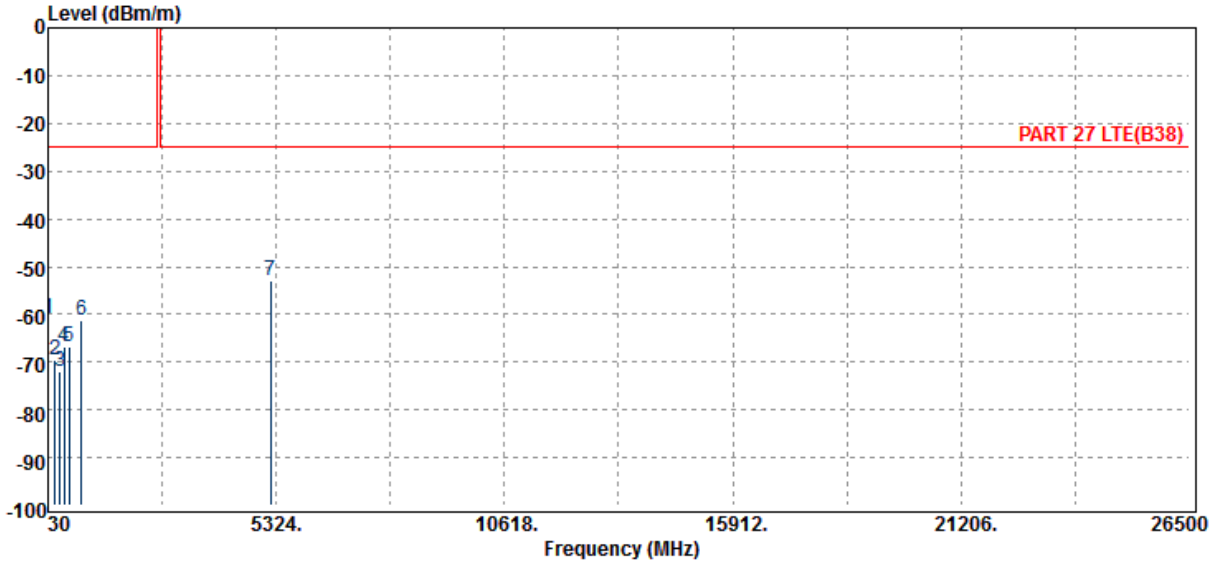
Operation Band	:LTE B38	Temp./Humi.	:22 deg_C / 61 RH
Fundamental Frequency	:2595.0 MHz	Engineer	:Tin
Operation Mode	:Tx CH MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	S	-60.98	-47.39	-12.63	-0.96	-25.00	-35.98
199.75	S	-69.52	-73.13	5.24	-1.63	-25.00	-44.52
299.66	S	-72.06	-75.88	5.77	-1.95	-25.00	-47.06
403.45	S	-66.77	-70.33	5.96	-2.40	-25.00	-41.77
520.82	S	-66.69	-70.18	5.89	-2.40	-25.00	-41.69
796.30	S	-61.36	-63.94	5.48	-2.90	-25.00	-36.36
5190.00	H	-52.82	-57.66	12.78	-7.95	-25.00	-27.82

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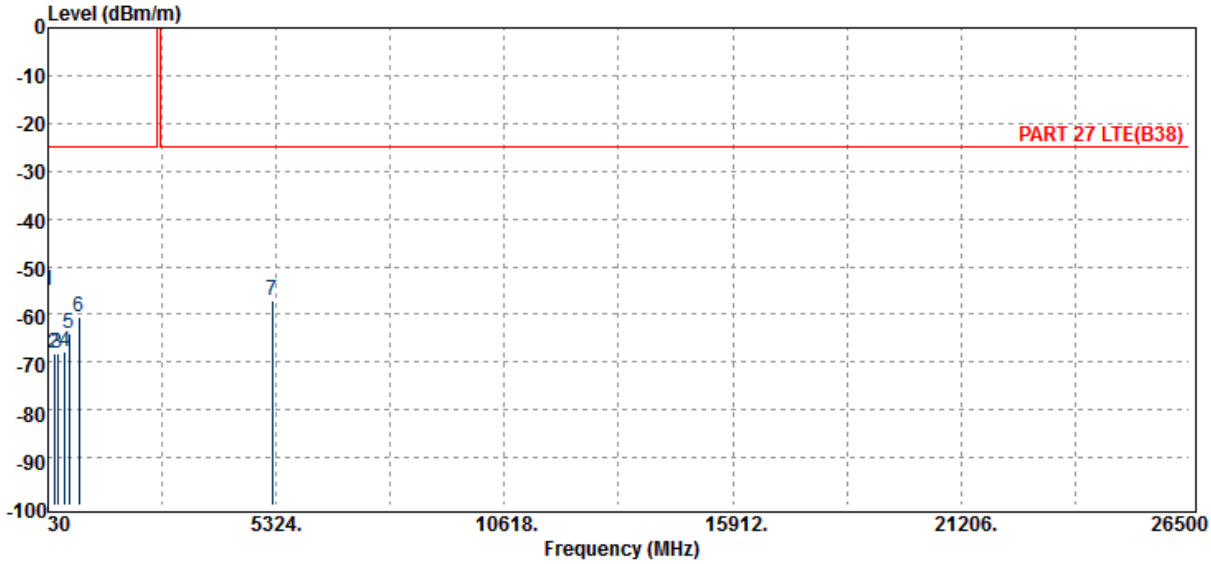
Operation Band	:LTE B38	Temp./Humi.	:22 deg_C / 61 RH
Fundamental Frequency	:2617.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
39.70	S	-55.12	-43.17	-10.96	-0.99	-25.00	-30.12
172.59	S	-68.15	-68.34	1.71	-1.53	-25.00	-43.15
245.34	S	-68.02	-71.79	5.52	-1.75	-25.00	-43.02
416.06	S	-67.92	-71.47	5.91	-2.36	-25.00	-42.92
524.70	S	-63.93	-67.36	5.87	-2.44	-25.00	-38.93
749.74	S	-60.41	-62.66	5.33	-3.08	-25.00	-35.41
5235.00	H	-57.20	-61.99	12.80	-8.00	-25.00	-32.20

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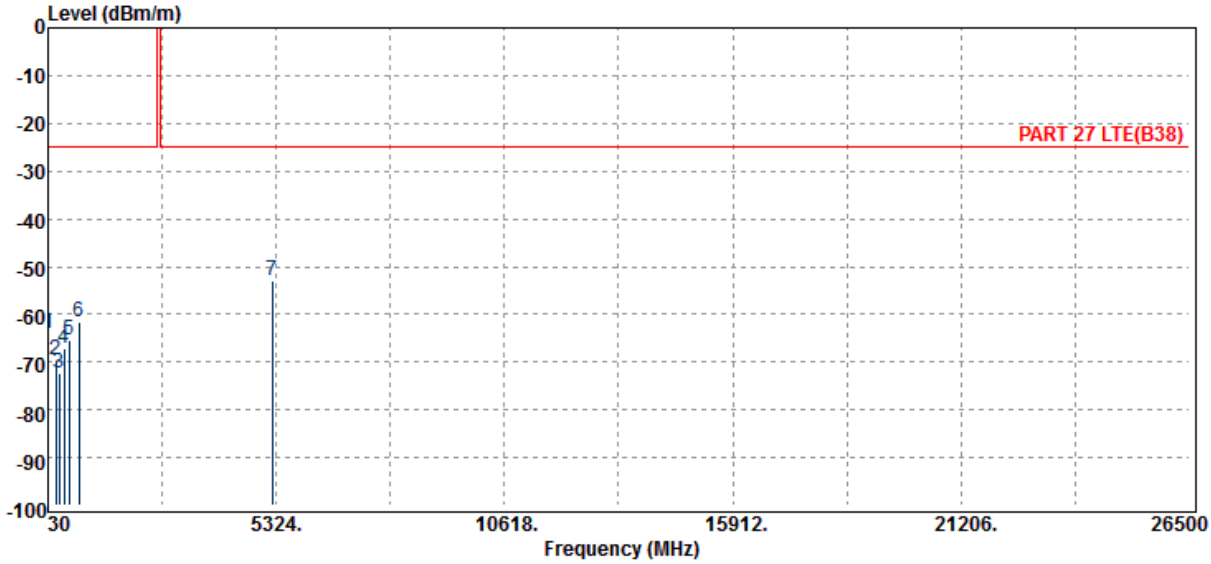
Operation Band	:LTE B38	Temp./Humi.	:22 deg_C / 61 RH
Fundamental Frequency	:2617.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
37.76	S	-63.96	-51.81	-11.17	-0.98	-25.00	-38.96
219.15	S	-69.52	-73.32	5.49	-1.70	-25.00	-44.52
282.20	S	-72.24	-75.93	5.57	-1.89	-25.00	-47.24
410.24	S	-67.02	-70.56	5.93	-2.40	-25.00	-42.02
522.76	S	-65.28	-68.75	5.88	-2.42	-25.00	-40.28
755.56	S	-61.73	-64.04	5.35	-3.04	-25.00	-36.73
5235.00	H	-53.11	-57.90	12.80	-8.00	-25.00	-28.11

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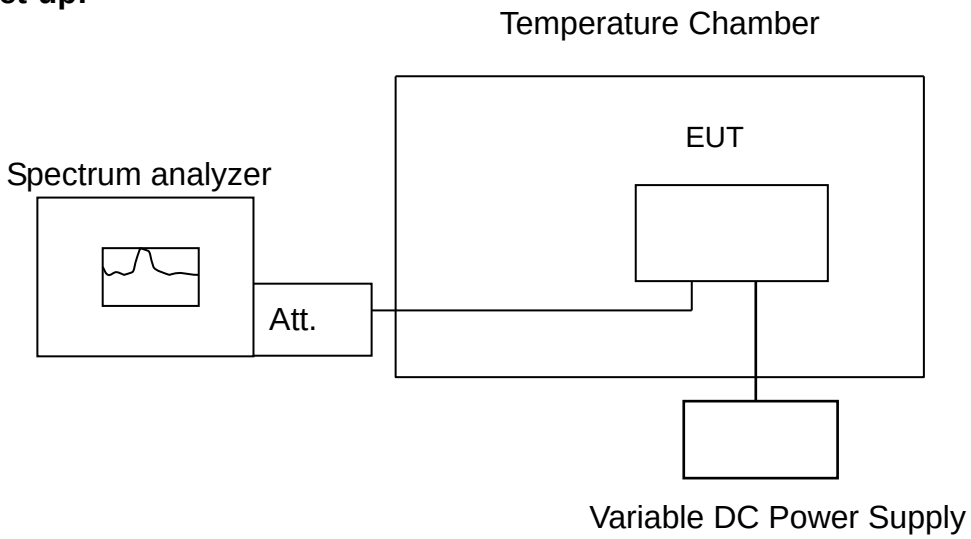
11. FREQUENCY STABILITY MEASUREMENT

11.1. Standard Applicable:

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

11.2. Test Set-up:



Note: Measurement setup for testing on Antenna connector

11.3. Measurement Procedure:

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

Set chamber temperature to 25℃. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.
Reduce the input voltage to specify extreme voltage variation (+/- 15%) and endpoint as declared by the manufacturer, record the maximum frequency change.

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11.4. Measurement Equipment Used:

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Meter	Anritsu	ML2495A	1005007	12/15/2016	12/14/2017
Power Sensor	Anritsu	MA2411B	917032	12/15/2016	12/14/2017
EXA Spectrum Analyz-er	Agilent	N9030A	MY53120760	03/21/2017	03/20/2018
DC Block	Mini-Circuits	BLK-18-S+	1	01/05/2017	01/04/2018
Coaxial Cable	HU-BER+SUHNER	SUCOFLEX 102	23670/2	01/05/2017	01/04/2018
Attenuator	Mini-Circuit	BW-S10W2+	2	01/05/2017	01/04/2018
Splitter	Agilent	11636B	N/A	01/05/2017	01/04/2018
DC Power Supply	Agilent	E3640A	MY52410006	11/21/2016	11/20/2017
Temperature Chamber	TERCHY	MHG-120LF	911009	05/19/2017	05/18/2018
Radio Communication Analyzer	R&S	CMU200	102189	02/11/2017	02/10/2018
Radio Communication Analyer	Anritsu	MT8820C	6201465317	01/03/2017	01/02/2018

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	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
4.4	20	836600002	5	2091
3.85	20	836599997	0	2091
3.5	20	836599995	-2	2091
2.5 (End point)	20	836600007	10	2091

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency: GPRS 850 Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
3.85	50	836600001	11	2091

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3.85	40	836600000	10	2091
3.85	30	836599986	-4	2091
3.85	20	836599990	0	2091
3.85	10	836600015	25	2091
3.85	0	836600008	18	2091
3.85	-10	836599991	1	2091
3.85	-20	836600008	18	2091
3.85	-30	836600013	23	2091

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t (886-2) 2299-3279 f (886-2) 2298-0488 www.tw.sgs.com
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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 (℃)	(MHz)		
4.4	20	1880000001	7	4700
3.85	20	1879999994	0	4700
3.5	20	1880000010	16	4700
2.5 (End point)	20	1880000010	16	4700

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency: GPRS 1900 Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
3.85	50	1880000000	-6	4700
3.85	40	1880000003	-3	4700
3.85	30	1879999987	-19	4700
3.85	20	1880000006	0	4700
3.85	10	1880000003	-3	4700
3.85	0	1879999985	-21	4700
3.85	-10	1880000007	1	4700
3.85	-20	1880000013	7	4700
3.85	-30	1880000007	1	4700

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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 (℃)	(MHz)		
4.4	20	1879999999	3	4700
3.85	20	1879999996	0	4700
3.5	20	1880000003	7	4700
2.5 (End point)	20	1879999998	2	4700

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency: WCDMA II Mid Channel 1880				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
3.85	50	1879999998	10	4700
3.85	40	1879999998	10	4700
3.85	30	1879999995	7	4700
3.85	20	1879999988	0	4700
3.85	10	1879999990	2	4700
3.85	0	1880000007	19	4700
3.85	-10	1879999985	-3	4700
3.85	-20	1880000015	27	4700
3.85	-30	1880000012	24	4700

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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 (℃)	(MHz)		
4.4	20	836599999	-15	2091
3.85	20	836600014	0	2091
3.5	20	836600006	-8	2091
2.5 (End Point)	20	836600011	-3	2091

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency: WCDMA V Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
3.85	50	836599995	7	2091
3.85	40	836600010	22	2091
3.85	30	836599988	0	2091
3.85	20	836599988	0	2091
3.85	10	836599993	5	2091
3.85	0	836599994	6	2091
3.85	-10	836600012	24	2091
3.85	-20	836599991	3	2091
3.85	-30	836600009	21	2091

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency:	LTE B5 Mid Channel	836.5	MHz	10M QPSK CH 20525
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
4.4	25	836.4999599	-55.5	2091
3.85	25	836.5000154	0	2091
3.5	25	836.4999728	-42.6	2091
2.5 (End Point)	25	836.4999708	-44.6	2091

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency:	LTE B5 Mid Channel	836.5	MHz	10M QPSK CH 20525
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
3.85	-30	836.4999596	-6.8	2091
3.85	-20	836.4999645	-1.9	2091
3.85	-10	836.5000224	56	2091
3.85	0	836.4999728	6.4	2091
3.85	10	836.5000175	51.1	2091
3.85	20	836.4999664	0	2091
3.85	30	836.4999633	-3.1	2091
3.85	40	836.4999688	2.4	2091
3.85	50	836.5000018	35.4	2091

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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	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
4.4	25	2535	-31.1	6338
3.85	25	2535	0	6338
3.5	25	2535	3.8	6338
2.5 (End Point)	25	2535	7.1	6338

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency:		LTE B7 Mid Channel	2535.0	MHz 10M QPSK CH 21100
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
3.85	-30	2535	28.8	6338
3.85	-20	2535	29.6	6338
3.85	-10	2535	4.6	6338
3.85	0	2535	0.8	6338
3.85	10	2535	22.9	6338
3.85	20	2535	0	6338
3.85	30	2535	3.2	6338
3.85	40	2535	0.9	6338
3.85	50	2535	15.6	6338

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency:	LTE B38 Mid Channel	2595.0	MHz	10M QPSK CH 38000
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
4.4	25	2595	-18.8	6488
3.85	25	2595	0	6488
3.5	25	2595	-25.8	6488
2.5 (End Point)	25	2595	-23.8	6488

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency:	LTE B38 Mid Channel	2595.0	MHz	10M QPSK CH 38000
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
3.85	-30	2595	55.1	6488
3.85	-20	2595	50.2	6488
3.85	-10	2595	3.2	6488
3.85	0	2595	36.9	6488
3.85	10	2595	0.8	6488
3.85	20	2595	0	6488
3.85	30	2595	36.4	6488
3.85	40	2595	10.3	6488
3.85	50	2595	41.8	6488

Note: The battery is rated 3.85V dc.

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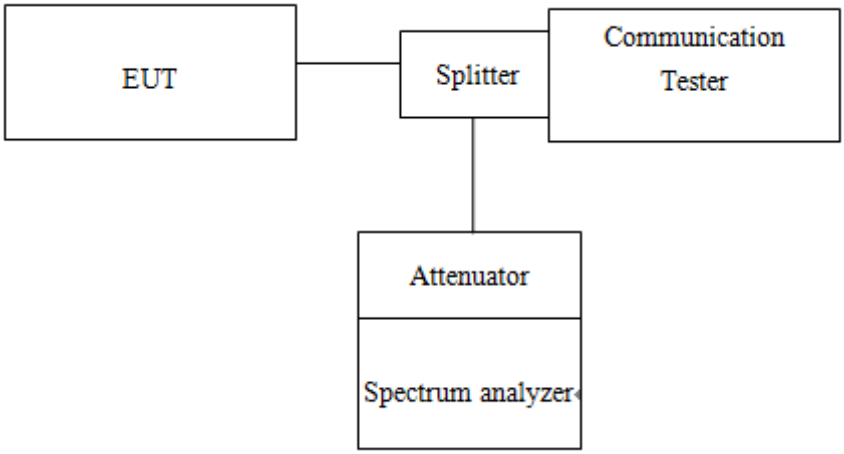
12. PEAK TO AVERAGE RATIO

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 ≥ signal's occupied bandwidth; & internal =1ms
3. Set the number of counts to a value that stabilizes the measured CCDF curve.

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12.4. Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Meter	Anritsu	ML2495A	1005007	12/15/2016	12/14/2017
Power Sensor	Anritsu	MA2411B	917032	12/15/2016	12/14/2017
EXA Spectrum Analyz-er	Agilent	N9030A	MY53120760	03/21/2017	03/20/2018
DC Block	Mini-Circuits	BLK-18-S+	1	01/05/2017	01/04/2018
Coaxial Cable	HU-BER+SUHNER	SUCOFLEX 102	23670/2	01/05/2017	01/04/2018
Attenuator	Mini-Circuit	BW-S10W2+	2	01/05/2017	01/04/2018
Splitter	Agilent	11636B	N/A	01/05/2017	01/04/2018
DC Power Supply	Agilent	E3640A	MY52410006	11/21/2016	11/20/2017
Temperature Chamber	TERCHY	MHG-120LF	911009	05/19/2017	05/18/2018
Radio Communication Analyzer	R&S	CMU200	102189	02/11/2017	02/10/2018
Radio Communication Analyer	Anritsu	MT8820C	6201465317	01/03/2017	01/02/2018

12.5. Measurement Result

Tabular Results:

Freq. (MHz)	CH	Peak-to-Average		
		GSM 1900	GPRS 1900	EDGE 1900
1850.2	9296	9.29	9.77	11.64
1880.0	9400	9.91	9.66	11.44
1909.8	9538	8.76	9.80	11.44

Freq. (MHz)	CH	Peak-to-Average		
		WCDMA II	HSDPA II	HSUPA II
1850.2	9262	2.89	3.69	3.75
1880.0	9400	2.94	3.43	3.63
1909.8	9538	2.89	3.74	3.61

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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	5.56	13	825.5	20415	6.26	13
836.5	20525	5.90	13	836.5	20525	6.31	13
848.3	20643	5.47	13	847.5	20635	6.06	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	6.35	13	829.0	20450	6.17	13
836.5	20525	6.25	13	836.5	20525	6.26	13
846.5	20625	6.12	13	844.0	20600	6.14	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	5.76	13	2505.0	20800	5.85	13
2535.0	21100	5.54	13	2535.0	21100	5.67	13
2567.5	21375	5.51	13	2565.0	21350	5.74	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	20825	6.13	13	2510.0	20850	6.64	13
2535.0	21100	6.00	13	2535.0	21100	6.53	13

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LTE BAND 38							
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
2572.5	37775	8.26	13	2575.0	37800	9.82	13
2595.0	38000	8.62	13	2595.0	38000	8.20	13
2617.5	38225	7.96	13	2615.0	38200	9.14	13

LTE BAND 38							
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
2577.5	37825	9.71	13	2580.0	37850	8.58	13
2595.0	38000	9.81	13	2595.0	38000	8.43	13
2612.5	38175	9.12	13	2610.0	38150	9.44	13

Measurement Results:

Please refer to next page.

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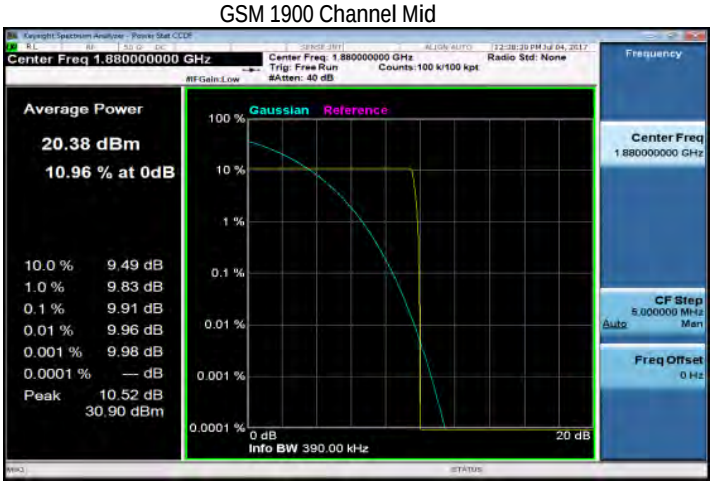
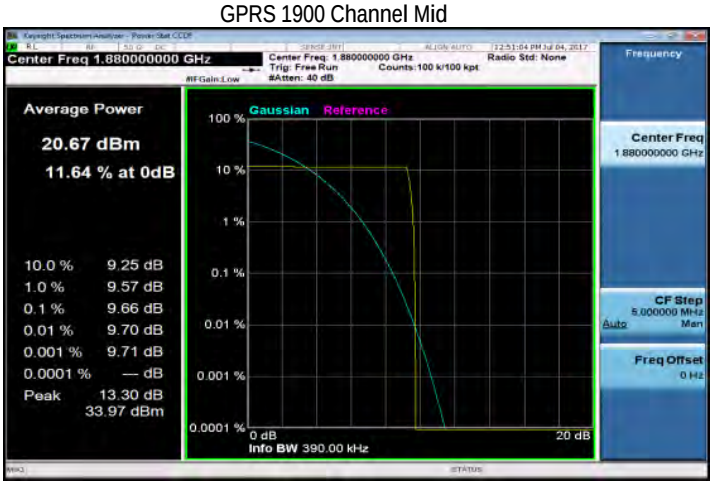
GSM 1900 Channel Low

GPRS 1900 Channel Low

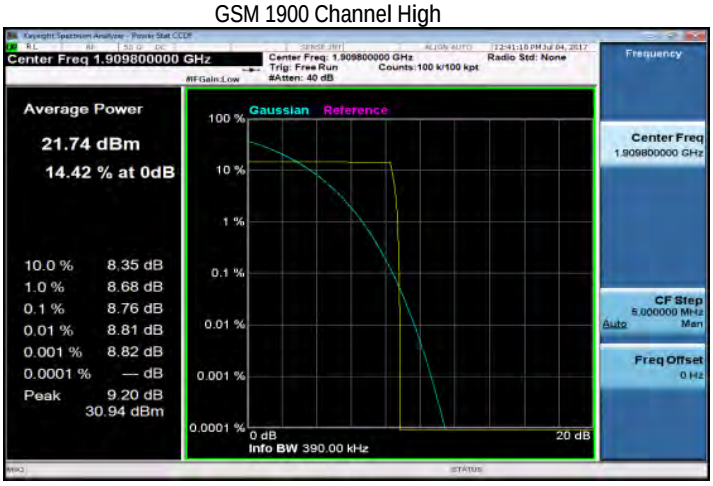
GSM 1900 Channel Mid



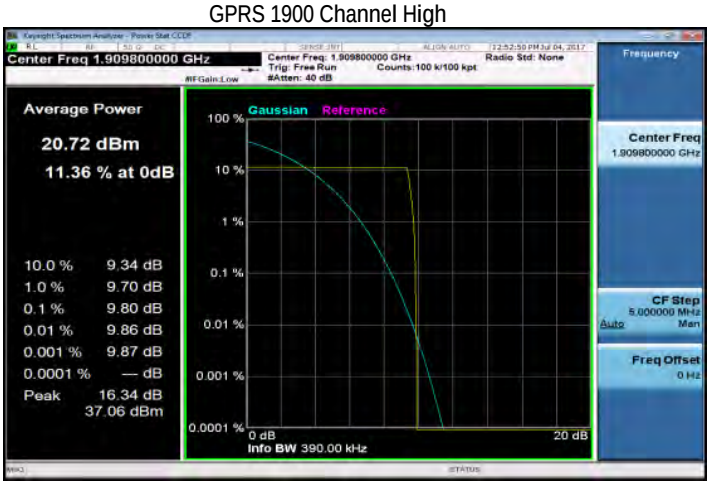
GPRS 1900 Channel Mid



GSM 1900 Channel High



GPRS 1900 Channel High



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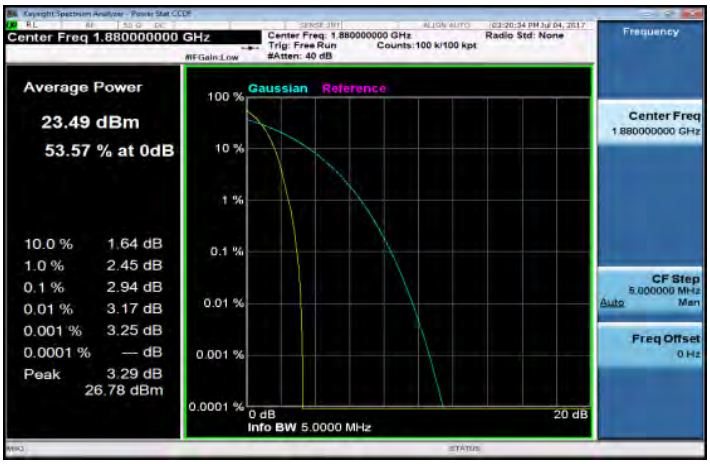
EDGE 1900 Channel Low

WCDMA Band II Channel Low

EDGE 1900 Channel Mid

WCDMA Band II Channel Mid



EDGE 1900 Channel High

WCDMA Band II Channel High

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HSDPA Band II Channel Low

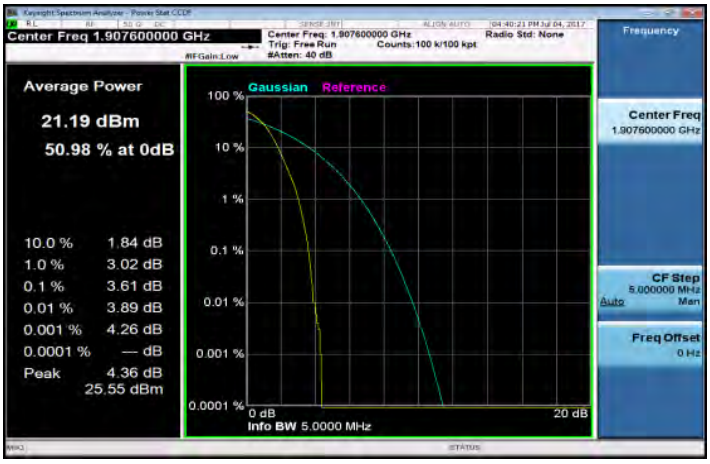
HSUPA Band II Channel Low

HSDPA Band II Channel Mid

HSUPA Band II Channel Mid

HSDPA Band II Channel High

HSUPA Band II Channel High



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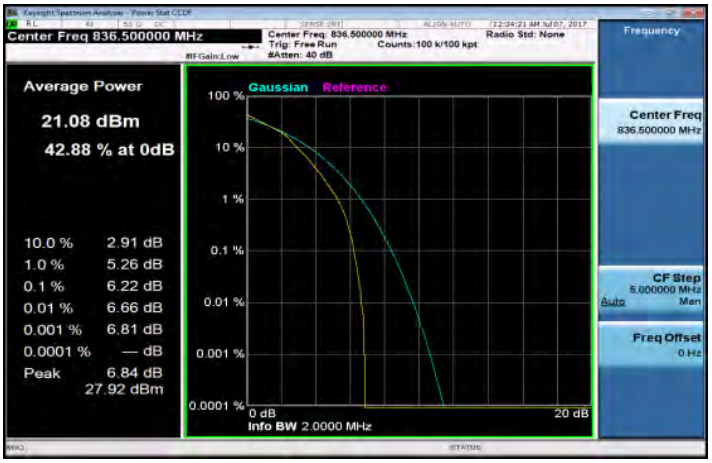
1.4MHz BW LTE-Band 5(16QAM Number: 6 Offset: 0) Channel Low

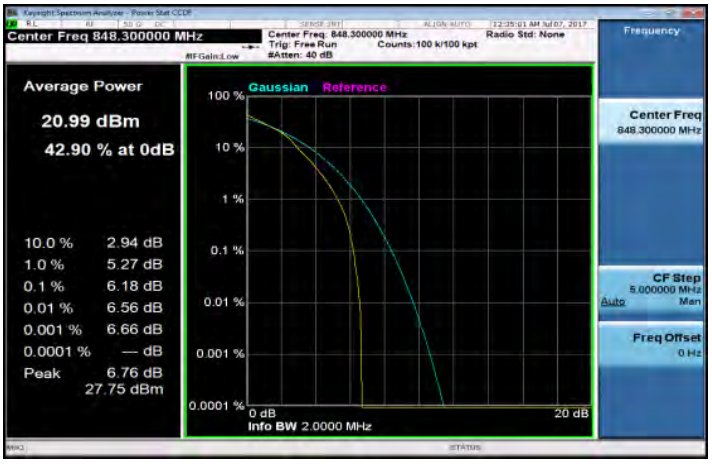
3MHz BW LTE-Band 5(16QAM Number: 15 Offset: 0) Channel Low

1.4MHz BW LTE-Band 5(16QAM Number: 6 Offset: 0) Channel Mid



3MHz BW LTE-Band 5(16QAM Number: 15 Offset: 0) Channel Mid

1.4MHz BW LTE-Band 5(16QAM Number: 6 Offset: 0) Channel High



3MHz BW LTE-Band 5(16QAM Number: 15 Offset: 0) Channel High

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5MHz BW LTE-Band 5(16QAM Number: 25 Offset: 0) Channel Low

10MHz BW LTE-Band 5(16QAM Number: 50 Offset: 0) Channel Low

5MHz BW LTE-Band 5(16QAM Number: 25 Offset: 0) Channel Mid

10MHz BW LTE-Band 5(16QAM Number: 50 Offset: 0) Channel Mid

5MHz BW LTE-Band 5(16QAM Number: 25 Offset: 0) Channel High

10MHz BW LTE-Band 5(16QAM Number: 50 Offset: 0) Channel High

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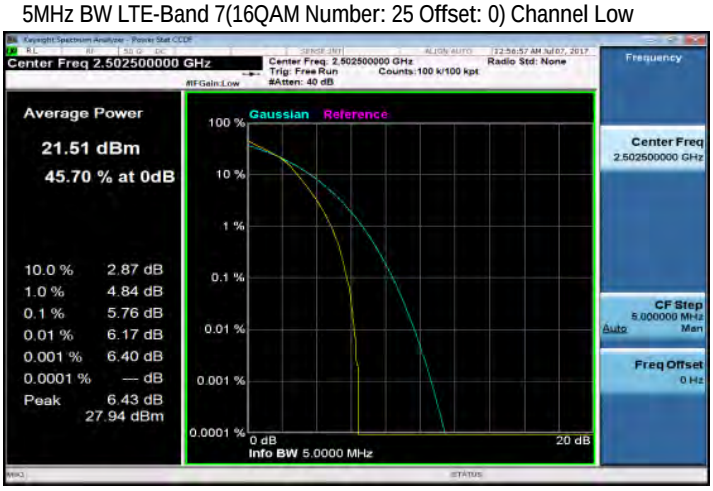
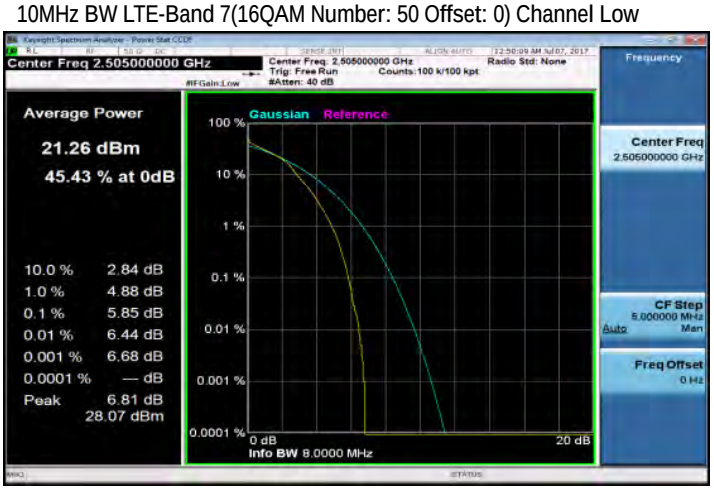
5MHz BW LTE-Band 7(16QAM Number: 25 Offset: 0) Channel Low



10MHz BW LTE-Band 7(16QAM Number: 50 Offset: 0) Channel Low

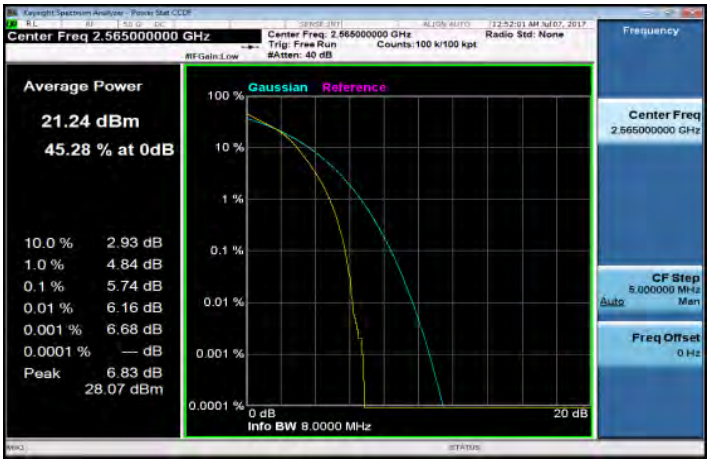


5MHz BW LTE-Band 7(16QAM Number: 25 Offset: 0) Channel Mid

10MHz BW LTE-Band 7(16QAM Number: 50 Offset: 0) Channel Mid

5MHz BW LTE-Band 7(16QAM Number: 25 Offset: 0) Channel High

10MHz BW LTE-Band 7(16QAM Number: 50 Offset: 0) Channel High



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15MHz BW LTE-Band 7(16QAM Number: 75 Offset: 0) Channel Low

20MHz BW LTE-Band 7(16QAM Number: 100 Offset: 0) Channel Low

15MHz BW LTE-Band 7(16QAM Number: 75 Offset: 0) Channel Mid

20MHz BW LTE-Band 7(16QAM Number: 100 Offset: 0) Channel Mid

15MHz BW LTE-Band 7(16QAM Number: 75 Offset: 0) Channel High

20MHz BW LTE-Band 7(16QAM Number: 100 Offset: 0) Channel High

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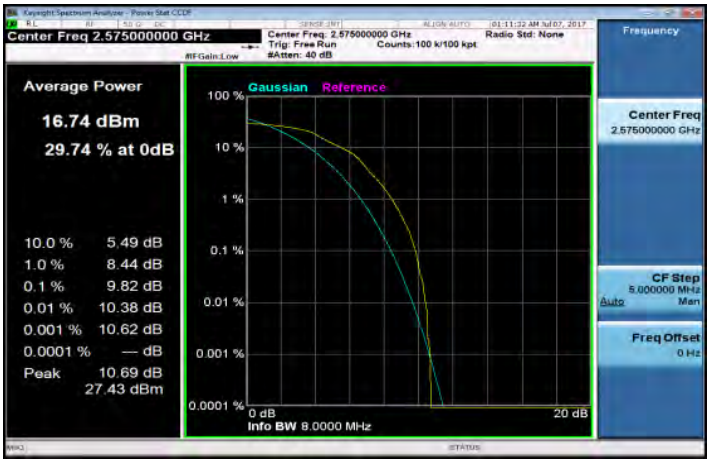
5MHz BW LTE-Band 38(16QAM Number: 25 Offset: 0) Channel Low

10MHz BW LTE-Band 38(16QAM Number: 50 Offset: 0) Channel Low

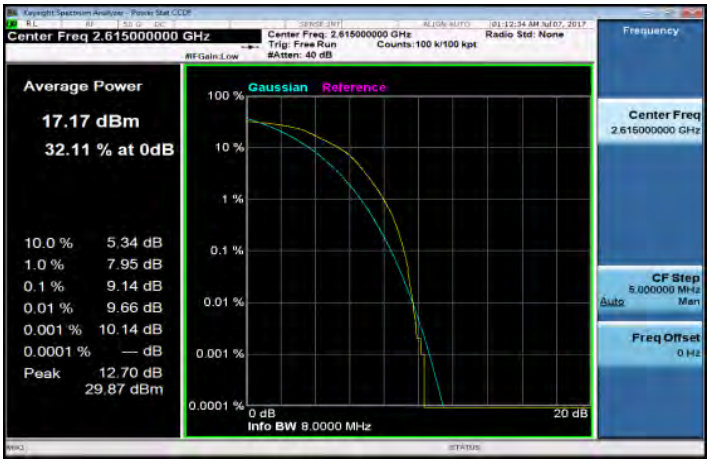


5MHz BW LTE-Band 38(16QAM Number: 25 Offset: 0) Channel Mid

10MHz BW LTE-Band 38(16QAM Number: 50 Offset: 0) Channel Mid

5MHz BW LTE-Band 38(16QAM Number: 25 Offset: 0) Channel High

10MHz BW LTE-Band 38(16QAM Number: 50 Offset: 0) Channel High



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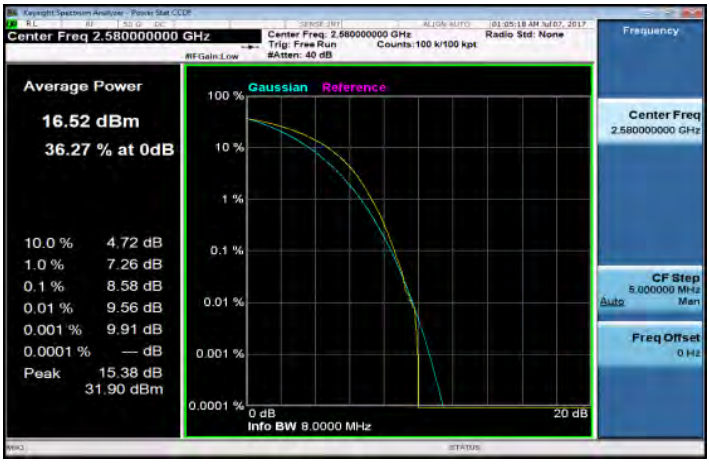
15MHz BW LTE-Band 38(16QAM Number: 75 Offset: 0) Channel Low

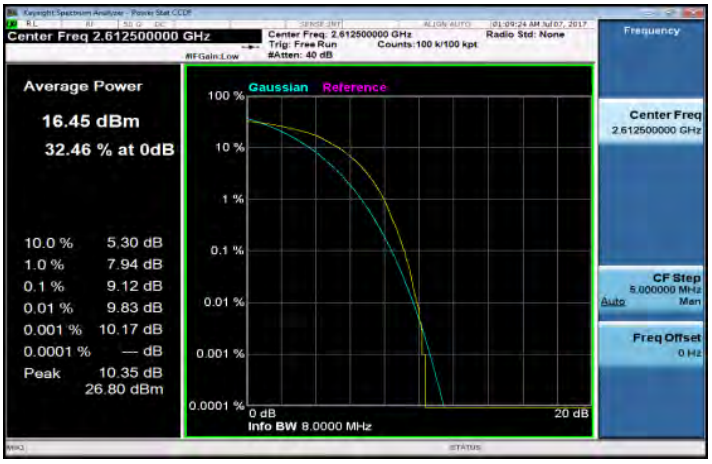
20MHz BW LTE-Band 38(16QAM Number: 100 Offset: 0) Channel Low



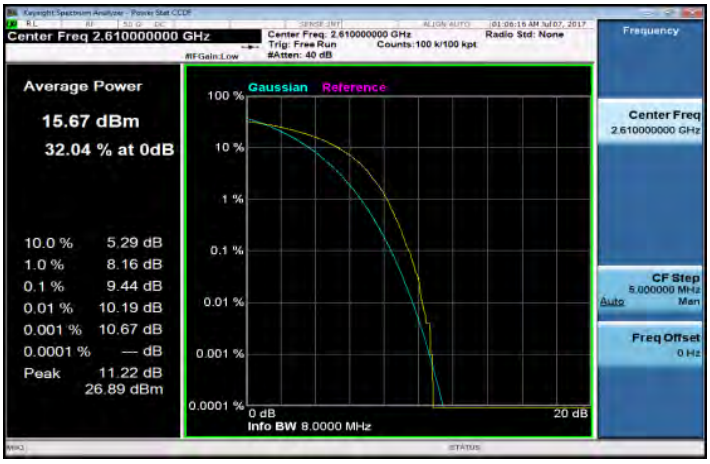
15MHz BW LTE-Band 38(16QAM Number: 75 Offset: 0) Channel Mid

20MHz BW LTE-Band 38(16QAM Number: 100 Offset: 0) Channel Mid

15MHz BW LTE-Band 38(16QAM Number: 75 Offset: 0) Channel High



20MHz BW LTE-Band 38(16QAM Number: 100 Offset: 0) Channel High



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13. RSE ASSESSMENT FOR C2PC

13.1. 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 +10log(mean output power in watt) dBc below the mean power output outside a license's frequency block (-25dBm).

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

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

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

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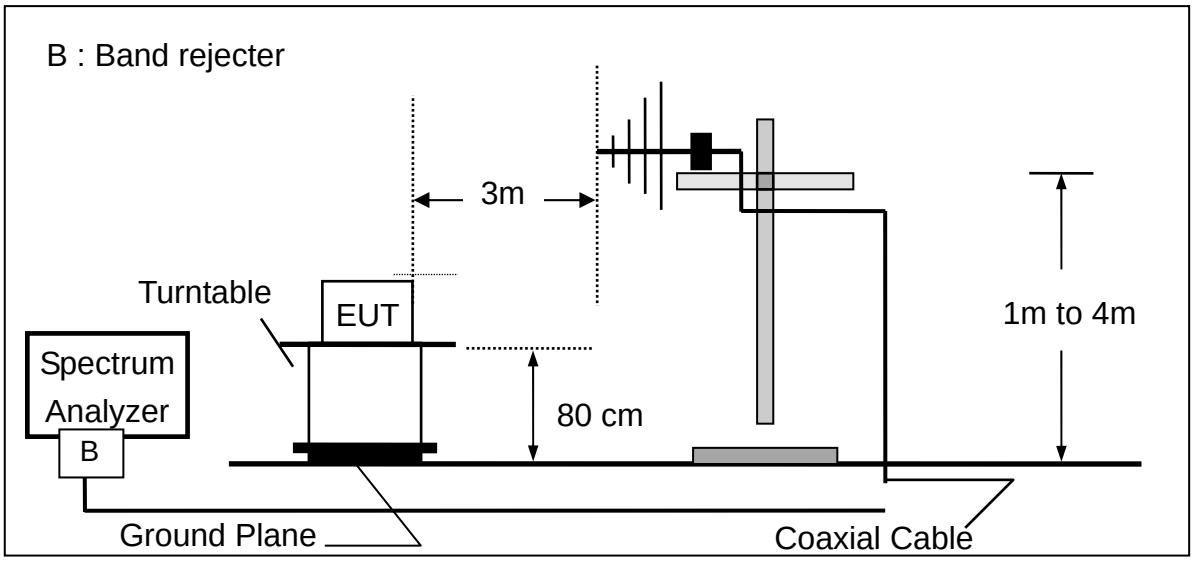
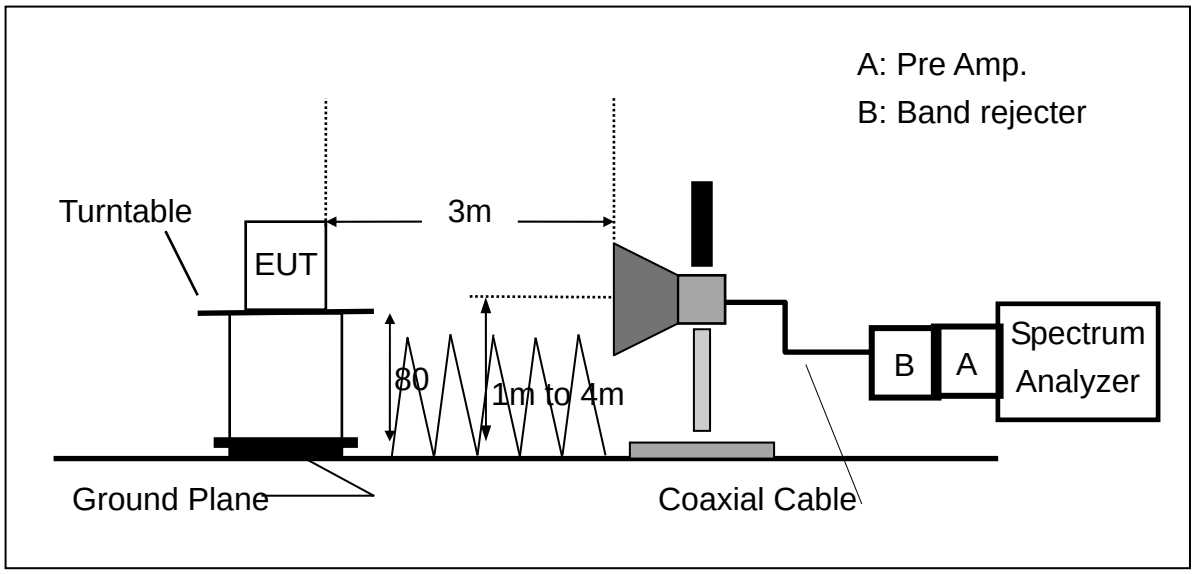
13.2. EUT Setup

Radiated Emission Test Set-Up, Frequency Below 1000MHz



Radiated Emission Test Set-UP Frequency Over 1 GHz



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13.3. 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.
ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)
EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

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

13.4. 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	05/11/2017	05/10/2018
Spectrum Analyzer	Agilent	E4446A	MY51100003	04/25/2017	04/24/2018
Loop Antenna	ETS-Lindgren	6502	148045	09/19/2017	09/18/2018
Bilog Antenna	SCHWAZBECK	VULB9168	378	12/19/2016	12/18/2017
Horn Antenna	Schwarzbeck	BBHA9120D	1441	08/04/2017	08/03/2018
Pre-Amplifier	Agilent	8447D	2944A07676	01/03/2017	01/02/2018
Pre-Amplifier	EMC Instruments Corp.	EMC0126530	980038	01/03/2017	01/02/2018
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	ChamPro	AM-BS-4500-B	060776-ABS	N.C.R	N.C.R
Controller	ChamPro	EM1000	60776	N.C.R	N.C.R
Low Loss Cable	Huber Suhner	966_RX	9	01/05/2017	01/04/2018
3m Site NSA	SGS	966 chamber	N/A	07/01/2017	06/30/2018
Low Loss Cable	Huber Suhner	966 TX	1	01/05/2017	01/04/2018
Horn Antenna	Schwarzbeck	BBHA9170	184	12/12/2016	12/11/2017
Pre-Amplifier	EMC Instruments Corp.	EMC184045	980135	01/05/2017	01/04/2018
Radio Communication Analyer	Anritsu	MT8820C	6201465317	01/03/2017	01/02/2018

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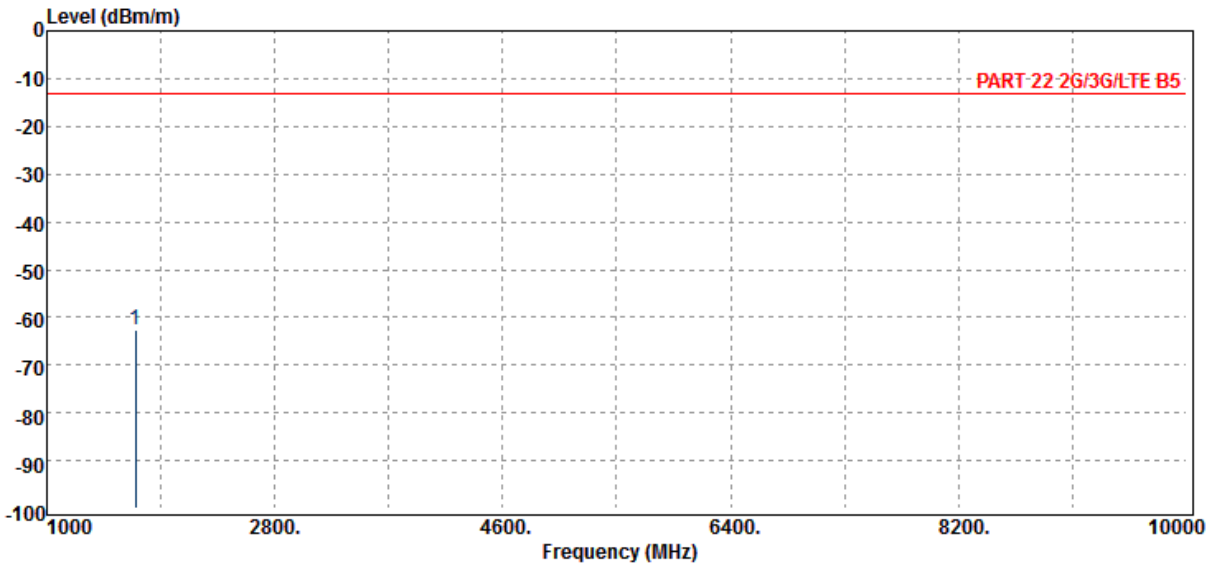
Operation Band	:GPRS 850	Temp./Humi.	:21 deg_C / 62 RH
Fundamental Frequency	:848.8 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
1697.60	H	-62.62	-65.60	7.28	-4.31	-13.00	-49.62

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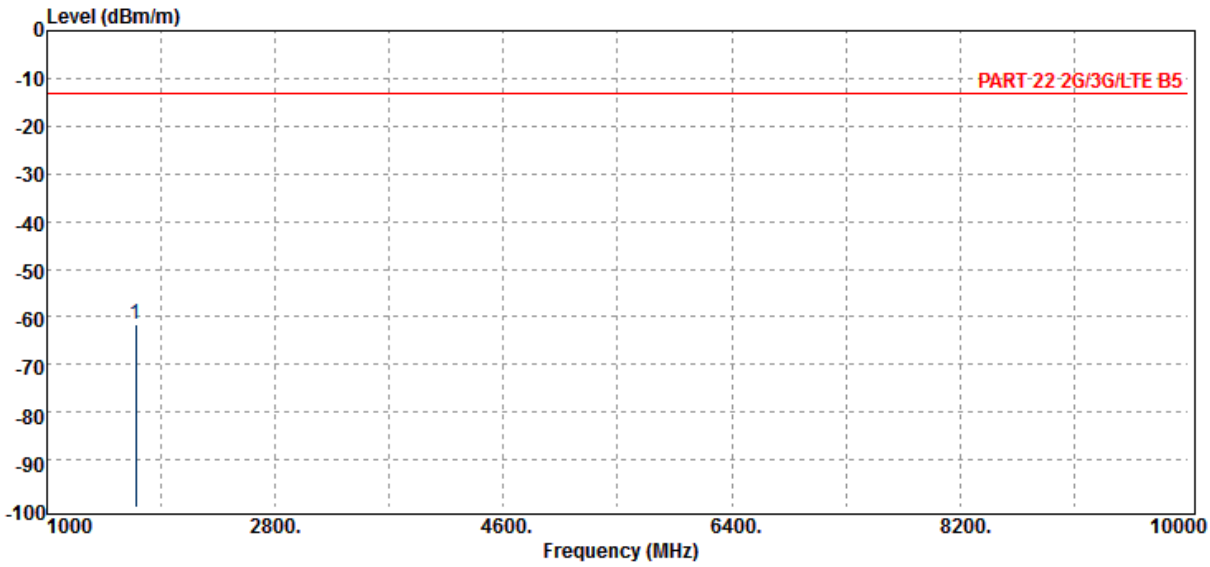
Operation Band	:GPRS 850	Temp./Humi.	:21 deg_C / 62 RH
Fundamental Frequency	:848.8 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
1697.60	H	-61.74	-64.71	7.28	-4.31	-13.00	-48.74

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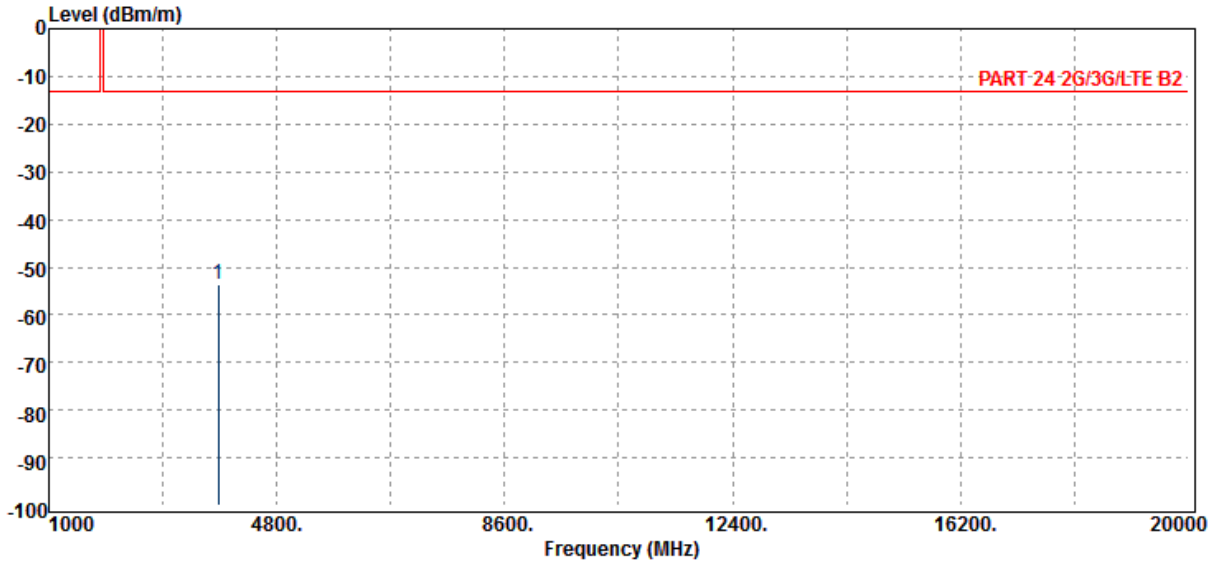
Operation Band	:GPRS 1900	Temp./Humi.	:21 deg_C / 62 RH
Fundamental Frequency	:1909.8 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
3819.60	H	-53.75	-59.57	12.47	-6.65	-13.00	-40.75

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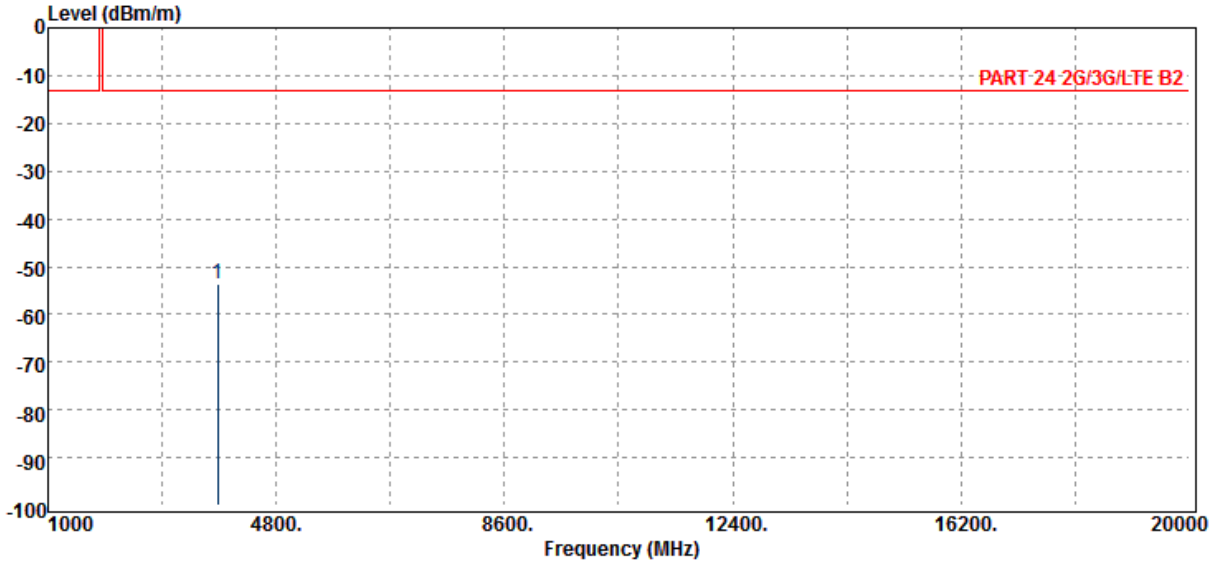
Operation Band	:GPRS 1900	Temp./Humi.	:21 deg_C / 62 RH
Fundamental Frequency	:1909.8 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
3819.60	H	-53.80	-59.62	12.47	-6.65	-13.00	-40.80

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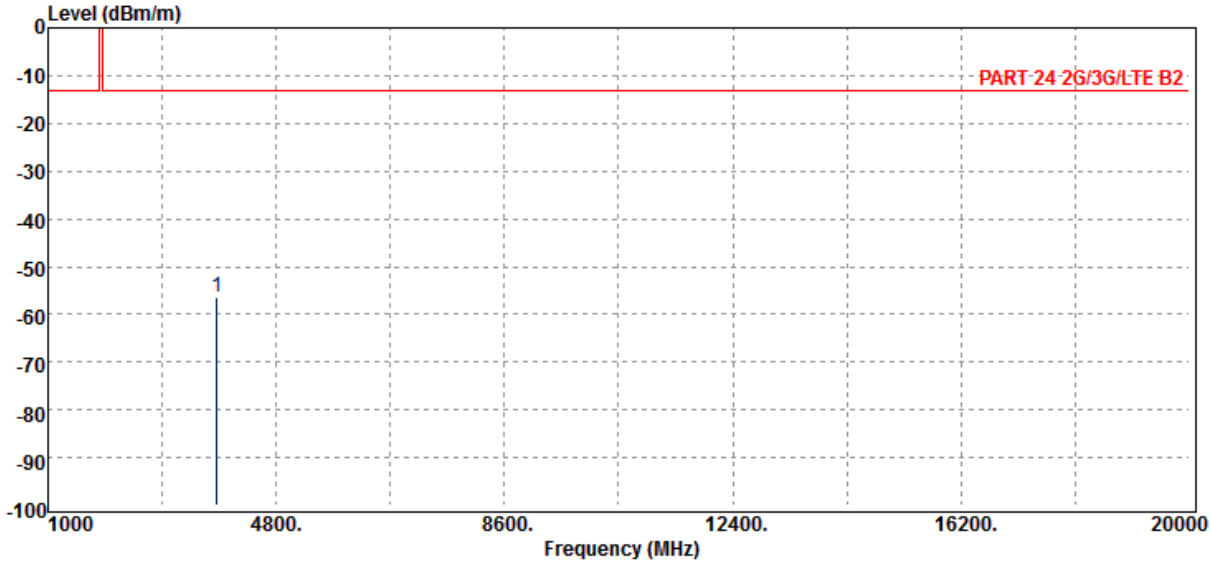
Operation Band	:HSDPA B2	Temp./Humi.	:21 deg_C / 62 RH
Fundamental Frequency	:1907.6 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
3815.20	H	-56.38	-62.22	12.46	-6.63	-13.00	-43.38

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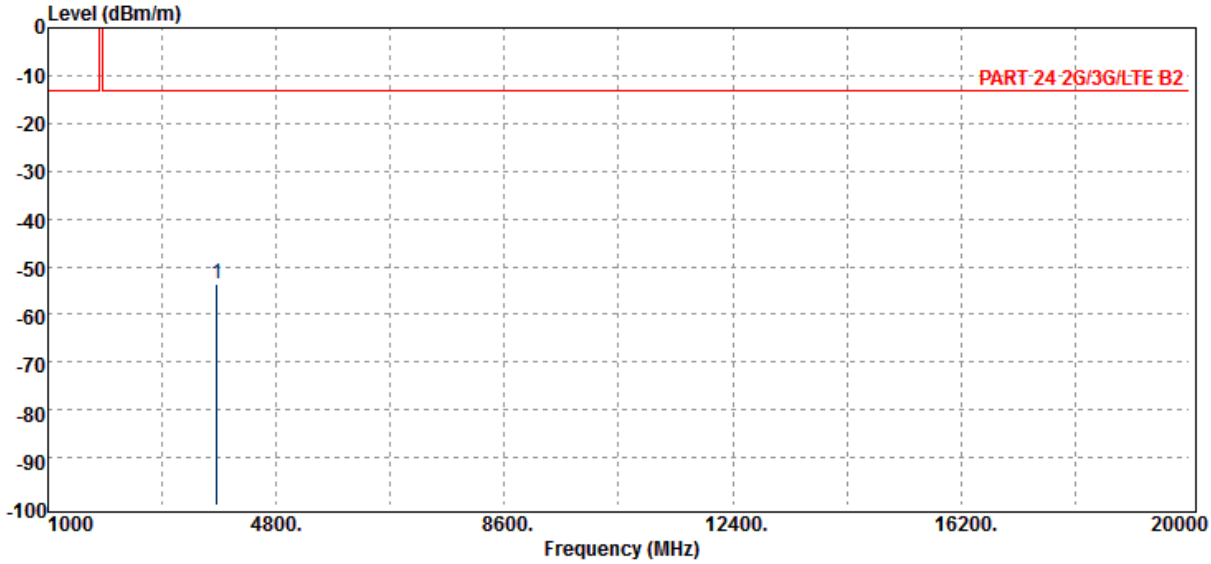
Operation Band	:HSDPA B2	Temp./Humi.	:21 deg_C / 62 RH
Fundamental Frequency	:1907.6 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
3815.20	H	-53.63	-59.46	12.46	-6.63	-13.00	-40.63

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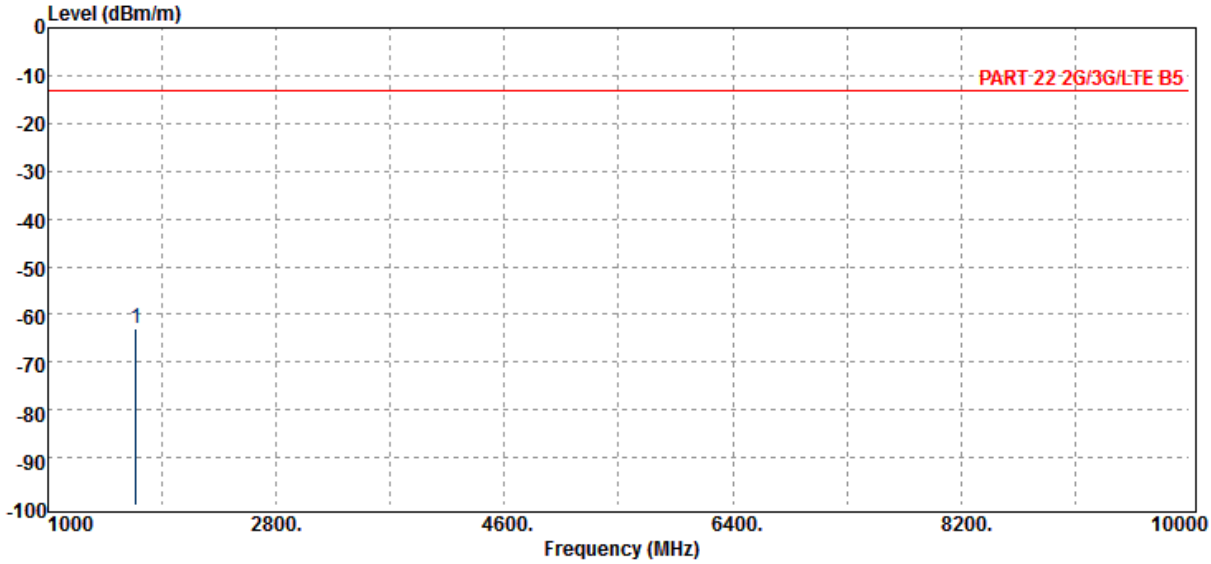
Operation Band	:HSDPA B5	Temp./Humi.	:21 deg_C / 62 RH
Fundamental Frequency	:846.6 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
1693.20	H	-63.08	-66.05	7.27	-4.30	-13.00	-50.08

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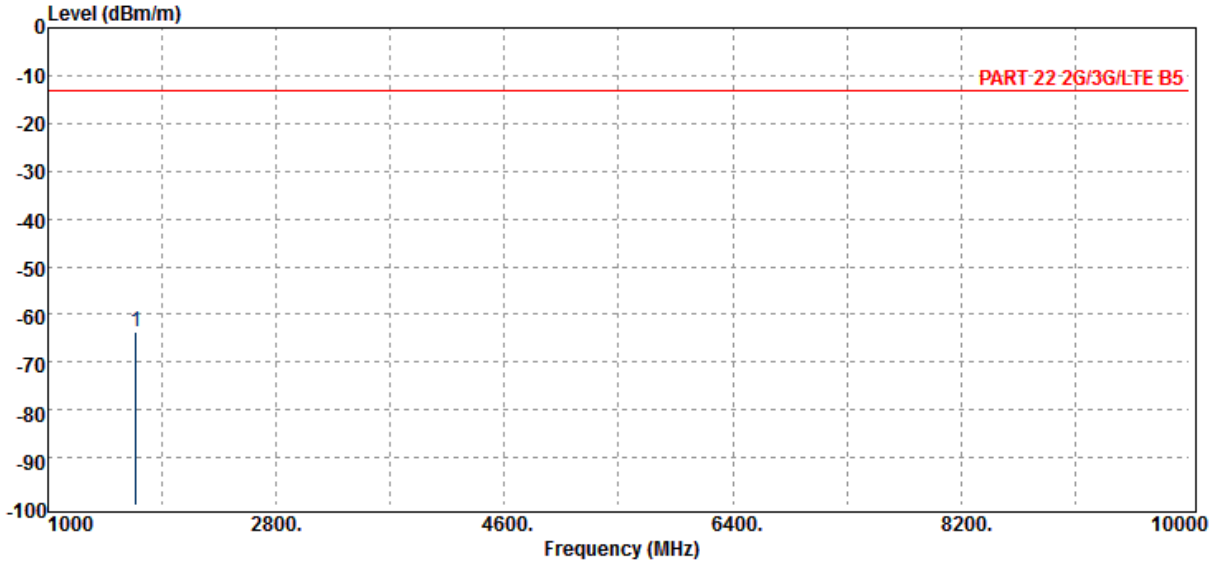
Operation Band	:HSDPA B5	Temp./Humi.	:21 deg_C / 62 RH
Fundamental Frequency	:846.6 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
1693.20	H	-63.64	-66.60	7.27	-4.30	-13.00	-50.64

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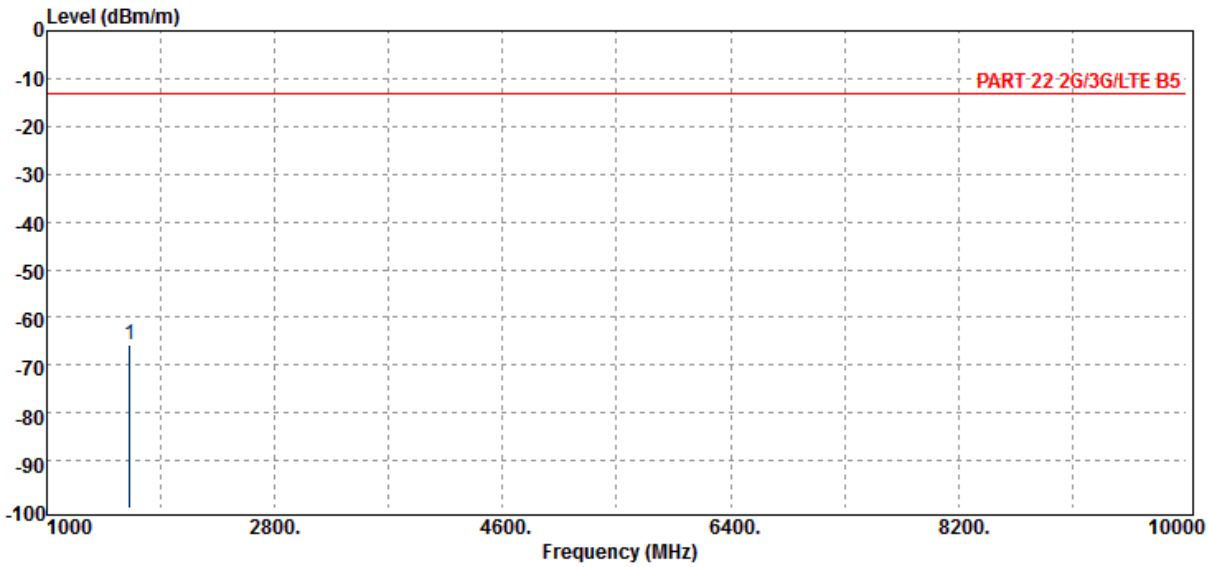
Operation Band	:LTE B5	Temp./Humi.	:22 deg_C / 61 RH
Fundamental Frequency	:826.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
1653.00	H	-65.73	-68.62	7.12	-4.24	-13.00	-52.73

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t (886-2) 2299-3279 f (886-2) 2298-0488 www.tw.sgs.com
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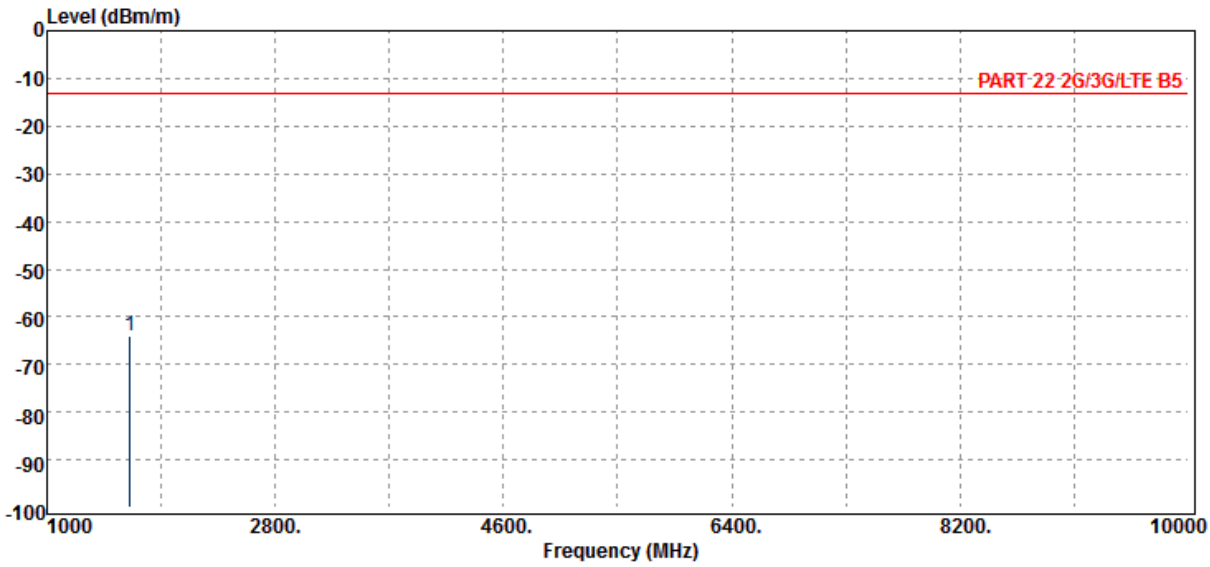
Operation Band	:LTE B5	Temp./Humi.	:22 deg_C / 61 RH
Fundamental Frequency	:826.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
1653.00	H	-63.92	-66.81	7.12	-4.24	-13.00	-50.92

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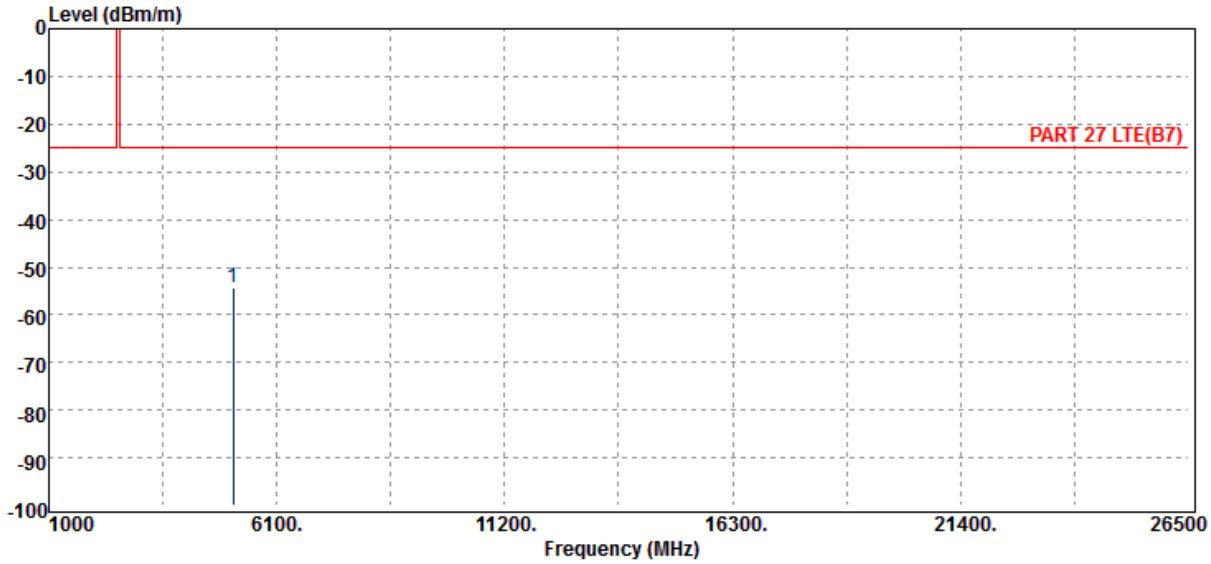
Operation Band	:LTE B7	Temp./Humi.	:21 deg_C / 62 RH
Fundamental Frequency	:2565 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
5130.00	H	-54.48	-59.32	12.75	-7.92	-25.00	-29.48

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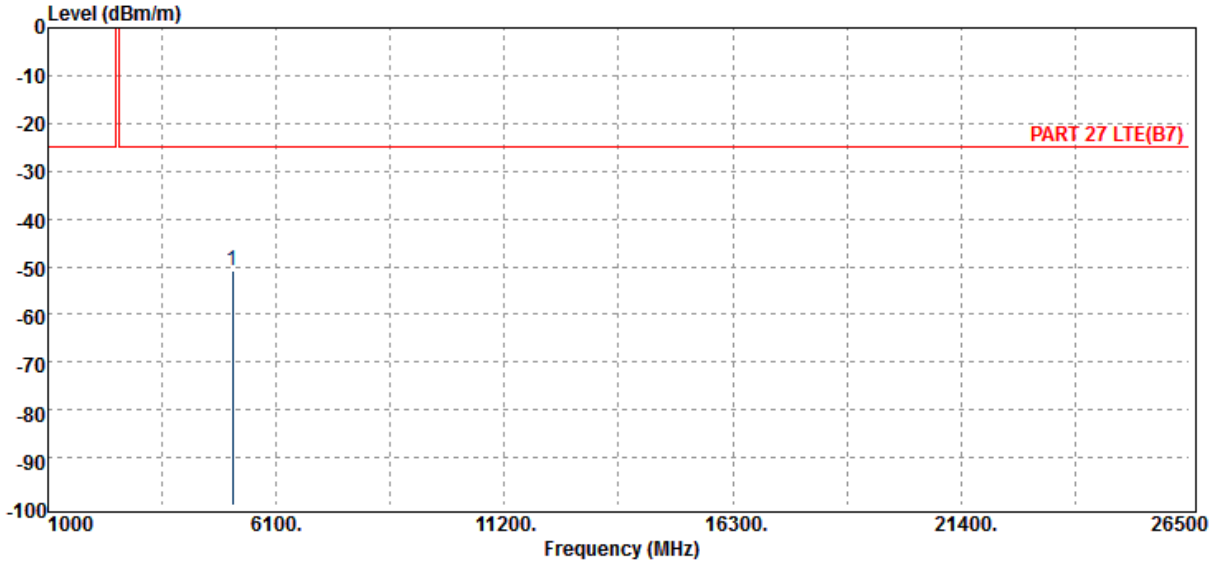
Operation Band	:LTE B7	Temp./Humi.	:21 deg_C / 62 RH
Fundamental Frequency	:2565 MHz	Engineer	:Tin
Operation Mode	:Tx CH HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
5130.00	H	-50.97	-55.81	12.75	-7.92	-25.00	-25.97

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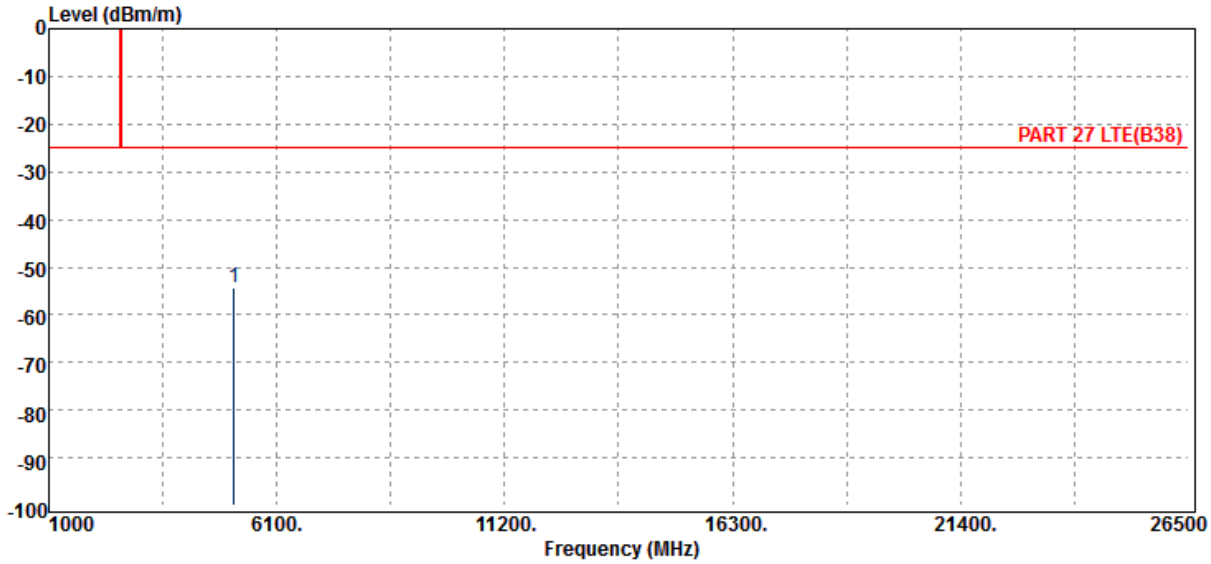
Operation Band	:LTE B38	Temp./Humi.	:22 deg_C / 61 RH
Fundamental Frequency	:2572.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
5145.00	H	-54.45	-59.27	12.76	-7.94	-25.00	-29.45

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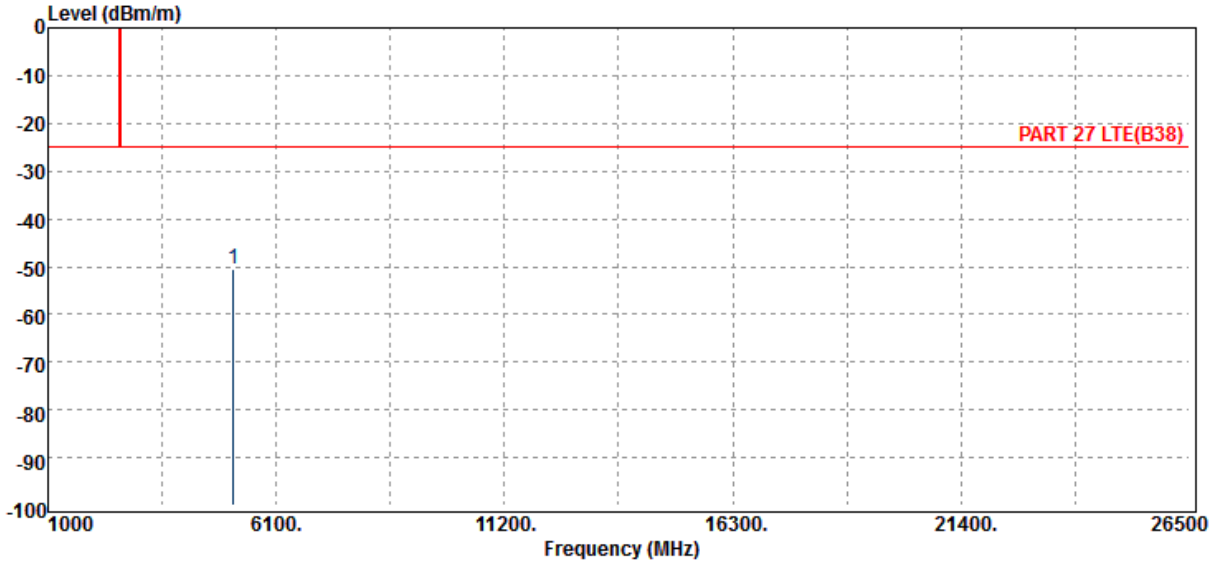
Operation Band	:LTE B38	Temp./Humi.	:22 deg_C / 61 RH
Fundamental Frequency	:2572.5 MHz	Engineer	:Tin
Operation Mode	:Tx CH LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
5145.00	H	-50.68	-55.50	12.76	-7.94	-25.00	-25.68

~ End of Report ~

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t (886-2) 2299-3279 f (886-2) 2298-0488 www.tw.sgs.com
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