

Page 65 of 153

9. OUT OF BAND EMISSION AT ANTENNA TERMINALS

9.1. Standard Applicable

FCC §22.917(a), §24.238(a), §27.53(h), Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

FCC §27.53(q)

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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Page 66 of 153

FCC §27.53(m) (4)

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.

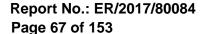
Measurement procedure. Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission 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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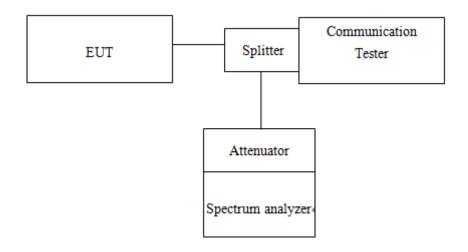
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9.2. Test SET-UP



9.3. Measurement Procedure

Conducted Emission

The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation The resolution bandwidth of the spectrum analyzer was set at 1MHz, sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic.

- 1. To connect Antenna Port of EUT to Spectrum.
- 2. Set RBW = 1MHz & VBW = 1MHz on Spectrum.
- 3. Allow trace to fully stabilize
- 4. Repeat above procedures until all default test channel measured were complete.

Band Edge

- 1. To connect Antenna Port of EUT to Spectrum.
- 2. The band edge of low and high channels for the highest RF powers was measured. Setting RBW ≥ 1% EBW.
- 3. Allow trace to fully stabilize
- 4. Repeat above procedures until all default test channel measured were complete.

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Page 68 of 153

9.4. Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site						
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.	
TYPE	ГҮРЕ		NUMBER	CAL.		
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	emperature Chamber TERCHY		911009	05/19/2017	05/18/2018	
Radio Communication Analyzer	I RXS		102189	02/11/2017	02/10/2018	
Radio Communication Anritsu Anritsu		MT8820C	6201465317	01/03/2017	01/02/2018	

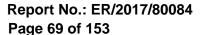
9.5. Measurement Result:

Refer to next pages.

NOTE: The occurrence of the spike on the conducted emission is the signal of the fundamental emission.

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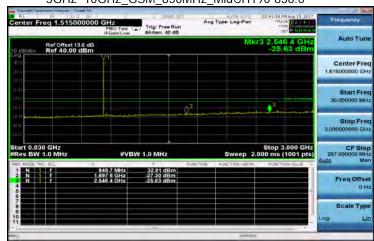




30MHz~3GHz_GSM_850MHz_LowCH128-824.2

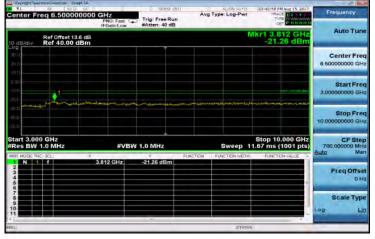
3GHz~10GHz_GSM_850MHz_MidCH190-836.6

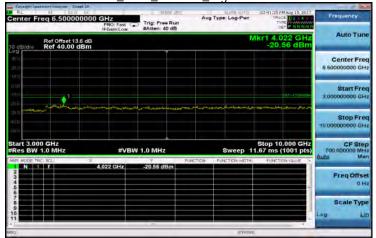




3GHz~10GHz_GSM_850MHz_LowCH128-824.2

30MHz~3GHz_GSM_850MHz_HighCH251-848.8

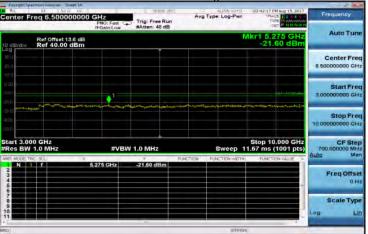




30MHz~3GHz_GSM_850MHz_MidCH190-836.6

Ref Offset 13.6 dB Ref 40.00 dBm Start Free 32.80 dE -27.91 dE -27.03 dE

3GHz~10GHz_GSM_850MHz_HighCH251-848.8



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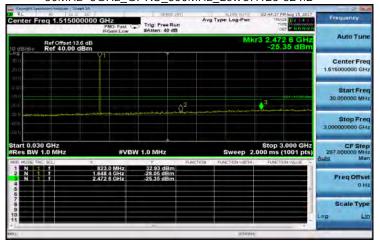
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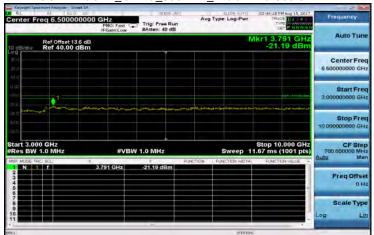


Report No.: ER/2017/80084 Page 70 of 153

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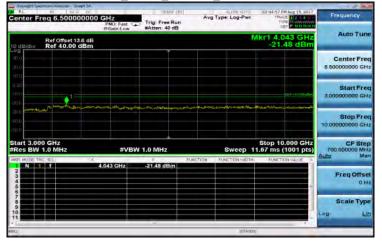
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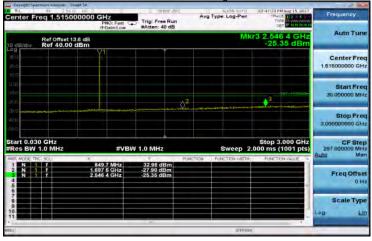




3GHz~10GHz_GPRS_850MHz_LowCH128-824.2

30MHz~3GHz_GPRS_850MHz_HighCH251-848.8





30MHz~3GHz GPRS 850MHz MidCH190-836.6

3GHz~10GHz_GPRS_850MHz_HighCH251-848.8





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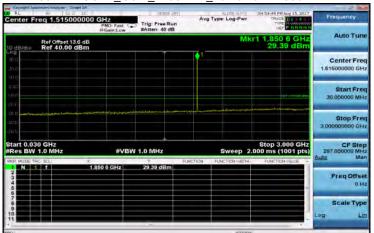
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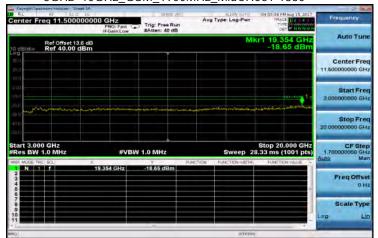


Page 71 of 153

30MHz~3GHz_GSM_1900MHz_LowCH512-1850.2



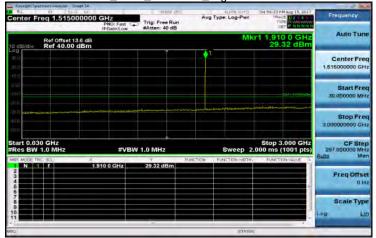
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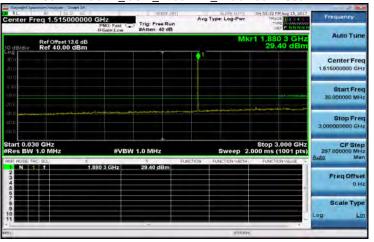
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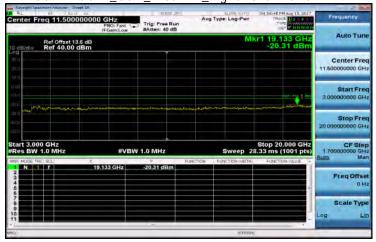
30MHz~3GHz_GSM_1900MHz_HighCH810-1909.8



30MHz~3GHz GSM 1900MHz MidCH661-1880



3GHz~10GHz GSM 1900MHz HighCH810-1909.8



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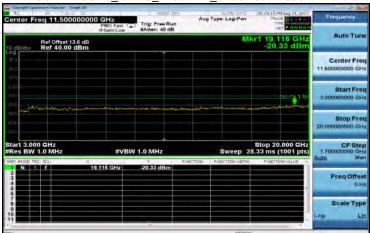


Page 72 of 153

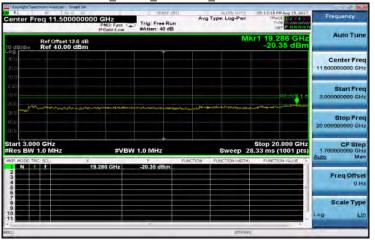
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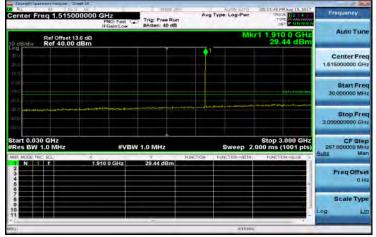
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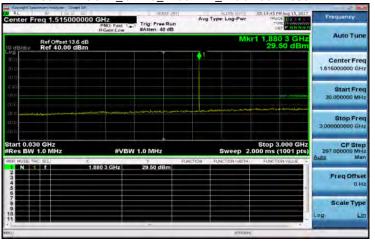
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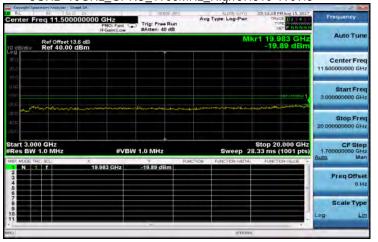
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30MHz~3GHz GPRS_1900MHz_MidCH661-1880



3GHz~10GHz_GPRS_1900MHz_HighCH810-1909.8



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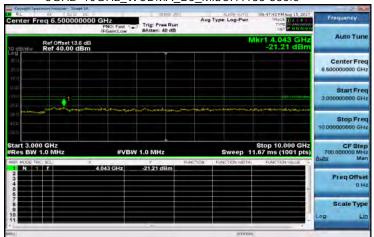


Page 73 of 153

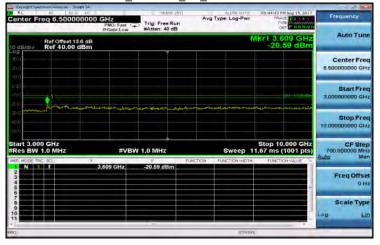
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3GHz~10GHz_WCDMA_B5_MidCH4183-836.6



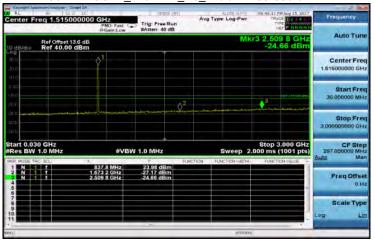
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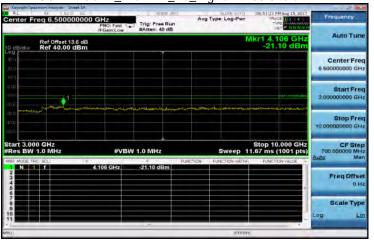
30MHz~3GHz_WCDMA_B5_HighCH4233-846.6



30MHz~3GHz WCDMA B5 MidCH4183-836.6



3GHz~10GHz WCDMA B5 HighCH4233-846.6



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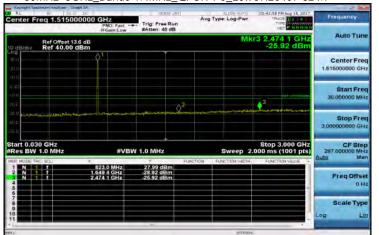
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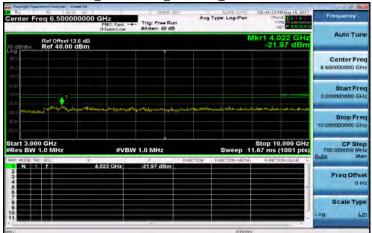


Page 74 of 153

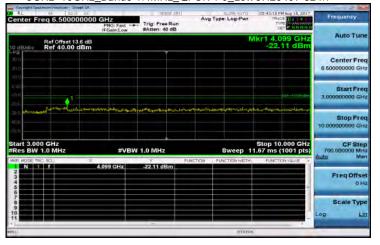
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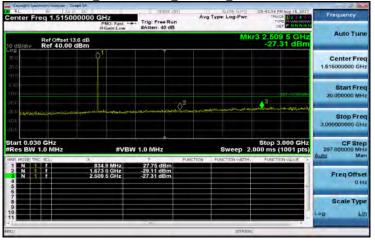
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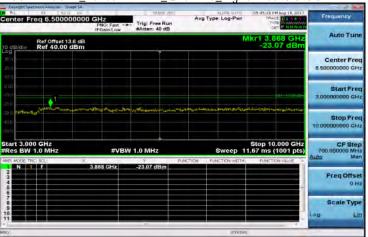
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30MHz~3GHz_Band5 1.4MHz_QPSK 1 0_MidCH20525-836.5



3GHz~10GHz_Band5 1.4MHz _QPSK 1 0_HighCH20643-848.3



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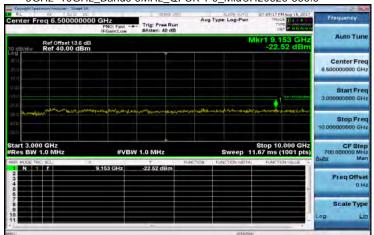


Page 75 of 153

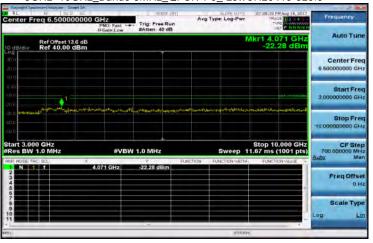
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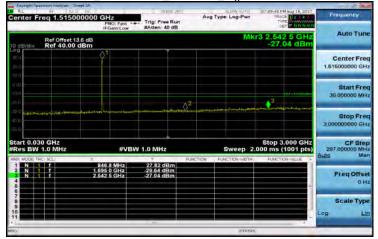
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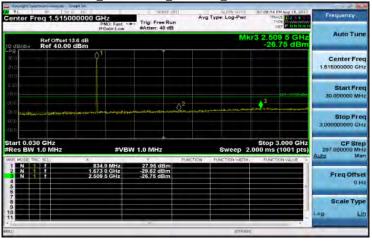
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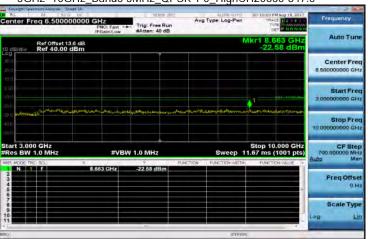
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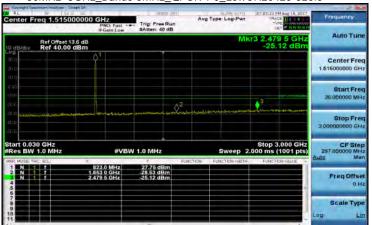
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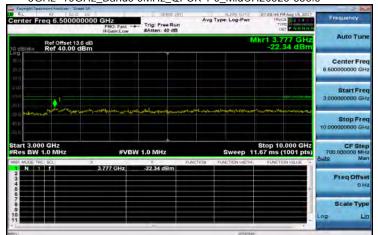


Page 76 of 153

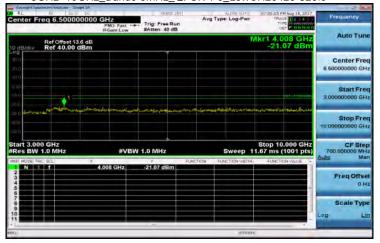
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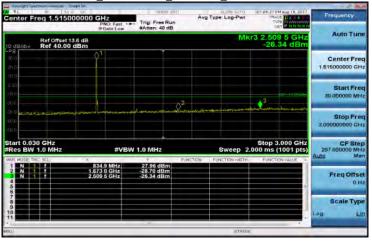
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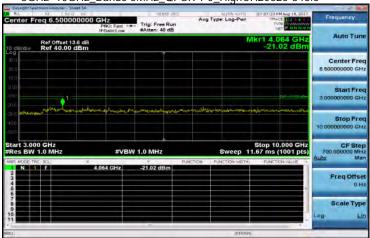
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30MHz~3GHz_Band5 5MHz_QPSK 1 0_MidCH20525-836.5



3GHz~10GHz_Band5 5MHz_QPSK 1 0_HighCH20625-846.5



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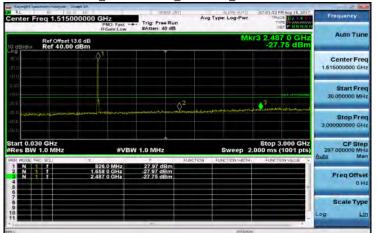
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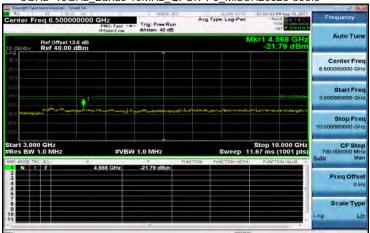


Page 77 of 153

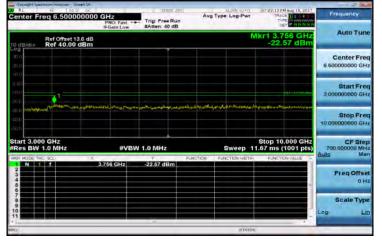
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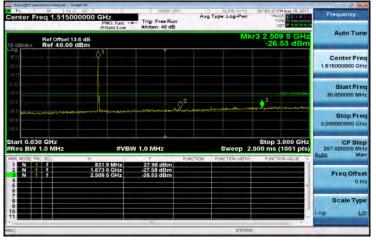
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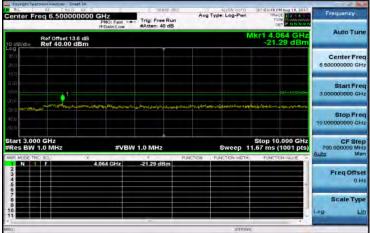
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30MHz~3GHz_Band5 10MHz_QPSK 1 0_MidCH20525-836.5



3GHz~10GHz_Band5 10MHz_QPSK 1 0_ HighCH20600-8444



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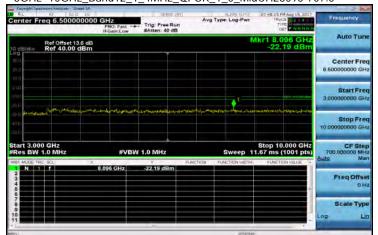


Page 78 of 153

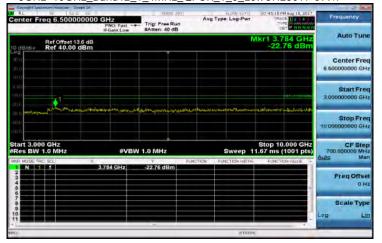
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3GHz~10GHz_Band12_1_4MHz_QPSK_1_0_MidCH23095-707.5



3GHz~10GHz_Band12_1_4MHz_QPSK_1_0_LowCH23017-699.7



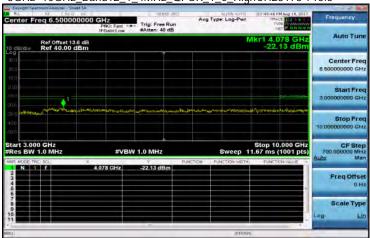
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30MHz~3GHz_Band12_1_4MHz_QPSK_1_0_MidCH23095-707.5



3GHz~10GHz_Band12_1_4MHz_QPSK_1_0_HighCH23173-715.3



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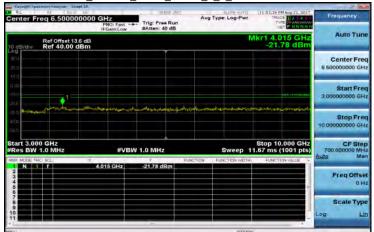


Page 79 of 153

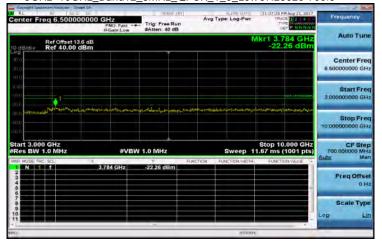
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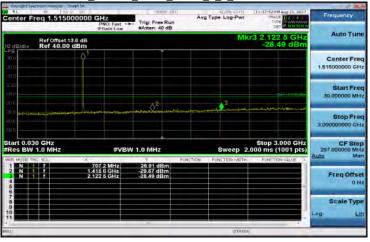
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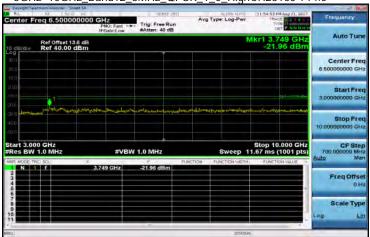
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30MHz~3GHz_Band12_3MHz_QPSK_1_0_MidCH23095-707.5



3GHz~10GHz_Band12_3MHz_QPSK_1_0_HighCH23165-714.5



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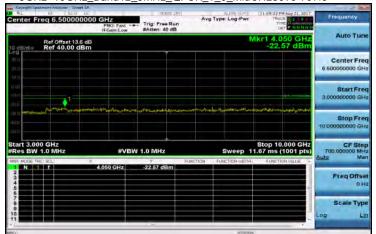


Page 80 of 153

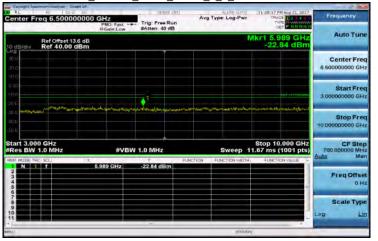
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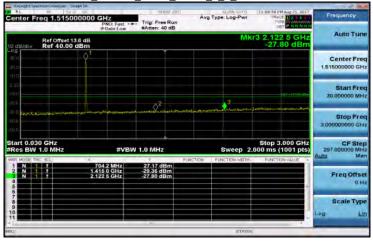
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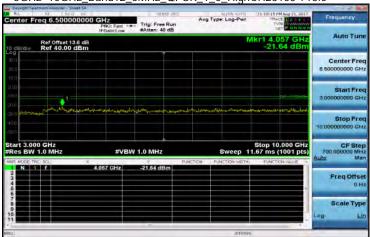
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30MHz~3GHz_Band12_5MHz_QPSK_1_0_MidCH23095-707.5



3GHz~10GHz_Band12_5MHz_QPSK_1_0_HighCH23155-713.5



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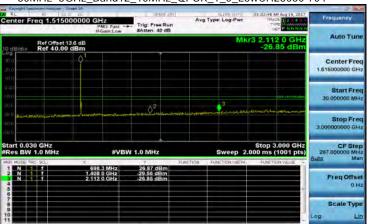
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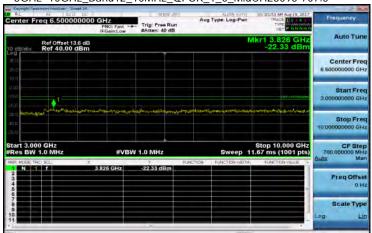


Page 81 of 153

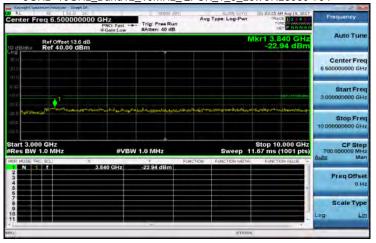
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3GHz~10GHz_Band12_10MHz_QPSK_1_0_LowCH23060-704



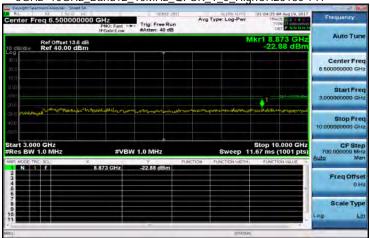
30MHz~3GHz_Band12_10MHz_QPSK_1_0_HighCH23130-711



30MHz~3GHz_Band12_10MHz_QPSK_1_0_MidCH23095-707.5



3GHz~10GHz_Band12_10MHz_QPSK_1_0_HighCH23130-711



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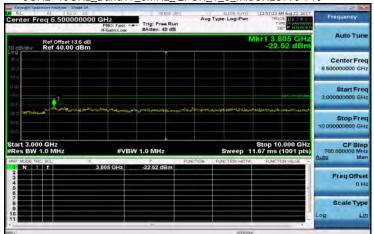


Page 82 of 153

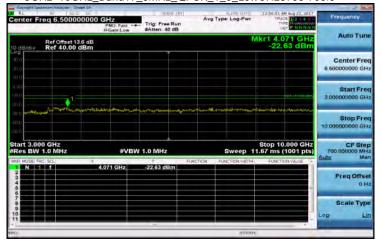
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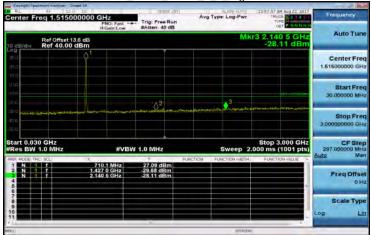
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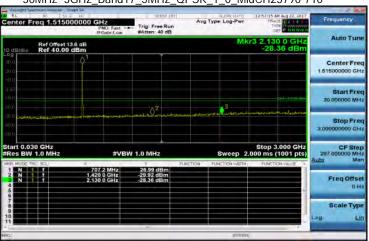
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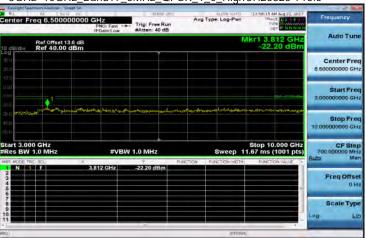
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30MHz~3GHz_Band17_5MHz_QPSK_1_0_MidCH23790-710



3GHz~10GHz_Band17_5MHz_QPSK_1_0_HighCH23825-713.5



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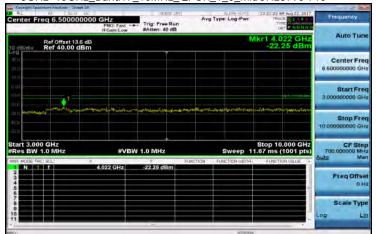


Page 83 of 153

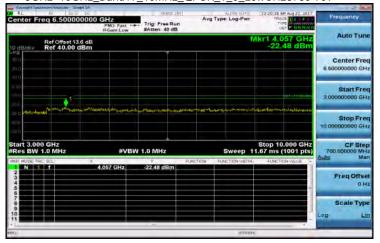
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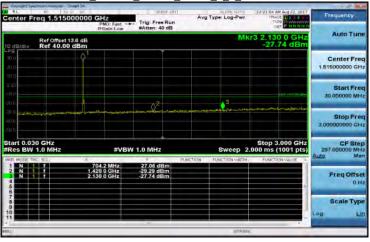
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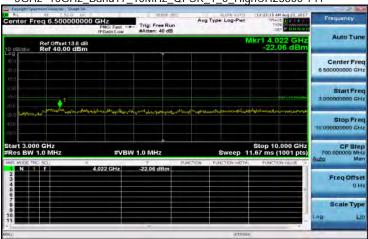
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30MHz~3GHz_Band17_10MHz_QPSK_1_0_MidCH23790-710



3GHz~10GHz_Band17_10MHz_QPSK_1_0_HighCH23800-711



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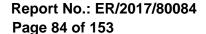
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Band Edge_GSM_850MHz_LowCH128-824.2



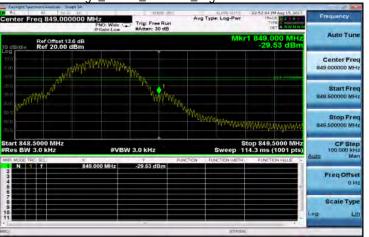
Band Edge_GPRS_850MHz_LowCH128-824.2



Band Edge_GSM_850MHz_HighCH251-848.8



Band Edge_GPRS_850MHz_HighCH251-848.8



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Page 85 of 153

Band Edge GSM 1900MHz LowCH512-1850.2



Band Edge_GPRS_1900MHz_LowCH512-1850.2



Band Edge_GSM_1900MHz_HighCH810-1909.8

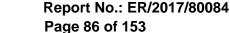


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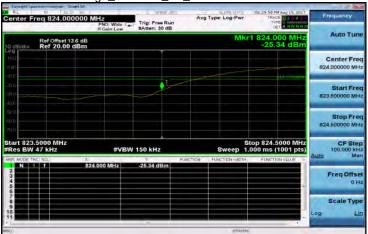


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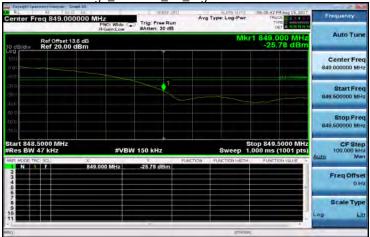
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Band Edge_WCDMA_B5_LowCH4132-826.4



Band Edge_WCDMA_B5_HighCH4233-846.6



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Page 87 of 153

Band Edge_Band5 1.4MHz_QPSK 1 0_LowCH20407-824.7



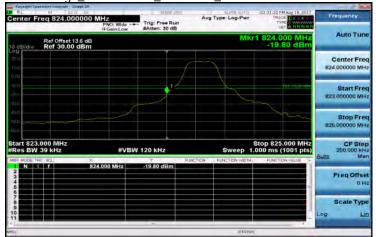
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Band Edge_Band5 1.4MHz_QPSK 1 5_HighCH20643-848.3



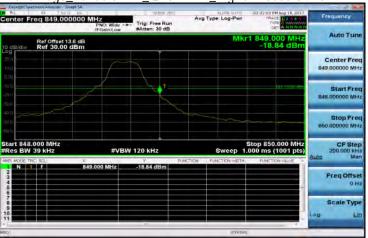
Band Edge_Band5 3MHz_QPSK 1 0_LowCH20415-825.5



Band Edge_Band5 1.4MHz_QPSK 6 0_LowCH20407-824.7



Band Edge_Band5 3MHz_QPSK 1 14_HighCH20635-847.5



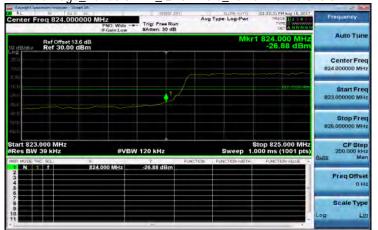
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Page 88 of 153

Band Edge_Band5 3MHz_QPSK 15 0_LowCH20415-825.5



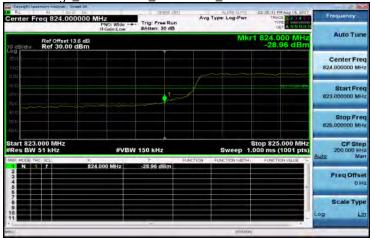
Band Edge Band5 5MHz QPSK 1 24 HighCH20625-846.5



Band Edge_Band5 3MHz_QPSK 15 0_HighCH20635-847.5



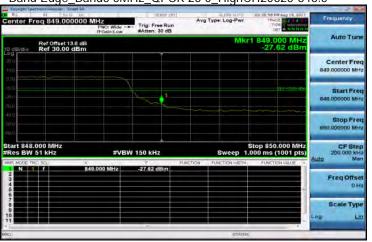
Band Edge_Band5 5MHz_QPSK 25 0_LowCH20425-826.5



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

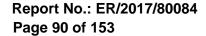


Band Edge_Band5 10MHz_QPSK 50 0_HighCH20600-844



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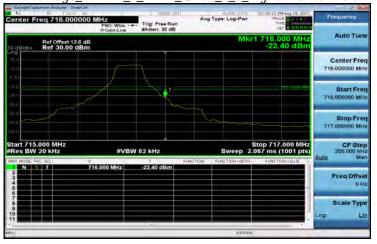
Band Edge_Band12_1_4MHz_QPSK_1_0_LowCH23017-699.7



Band Edge_Band12_1_4MHz_QPSK_6_0_HighCH23173-715.3



Band Edge Band12 1 4MHz QPSK 1 5 HighCH23173-715.3



Band Edge Band12 3MHz QPSK 1 0 LowCH23025-700.5



Band Edge_Band12_1_4MHz_QPSK_6_0_LowCH23017-699.7



Band Edge_Band12_3MHz_QPSK_1_14_HighCH23165-714.5

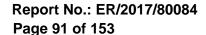


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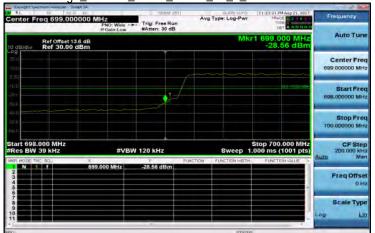
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Band Edge_Band12_3MHz_QPSK_15_0_LowCH23025-700.5



Band Edge_Band12_5MHz_QPSK_1_24_HighCH23155-713.5



Band Edge_Band12_3MHz_QPSK_15_0_HighCH23165-714.5



Band Edge Band12 5MHz QPSK 25 0 LowCH23035-701.5



Band Edge_Band12_5MHz_QPSK_1_0_LowCH23035-701.5



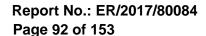
Band Edge_Band12_5MHz_QPSK_25_0_HighCH23155-713.5



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Band Edge_Band12_10MHz_QPSK_1_0_LowCH23060-704



Band Edge_Band12_10MHz_QPSK_50_0_HighCH23130-711



Band Edge_Band12_10MHz_QPSK_1_49_HighCH23130-711



Band Edge_Band12_10MHz_QPSK_50_0_LowCH23060-704



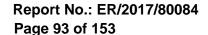
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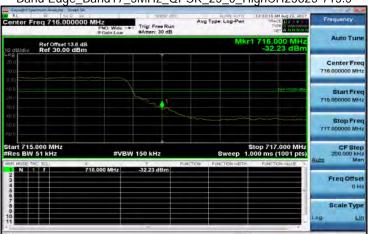




Band Edge_Band17_5MHz_QPSK_1_0_LowCH23755-706.5



Band Edge_Band17_5MHz_QPSK_25_0_HighCH23825-713.5



Band Edge_Band17_5MHz_QPSK_1_24_HighCH23825-713.5



Band Edge Band17 10MHz QPSK 1 0 LowCH23780-709



Band Edge_Band17_5MHz_QPSK_25_0_LowCH23755-706.5



Band Edge_Band17_10MHz_QPSK_1_49_HighCH23800-711

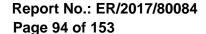


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Band Edge_Band17_10MHz_QPSK_50_0_LowCH23780-709







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Page 95 of 153

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(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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Page 96 of 153

FCC §27.53(m) (4)

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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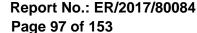




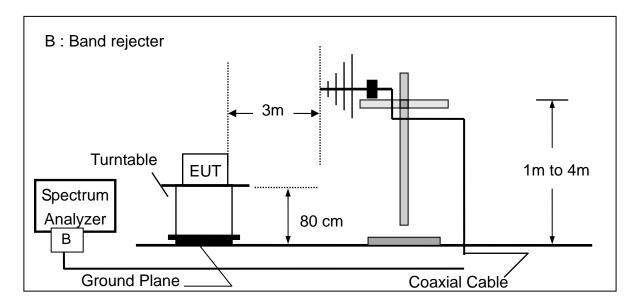
Table 2 — Unwanted Emissions for Mobile, Portable and Low-Power Fixed Subscriber **Equipment**

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

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

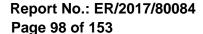
10.2. EUT Setup

Radiated Emission Test Set-Up, Frequency Below 1000MHz



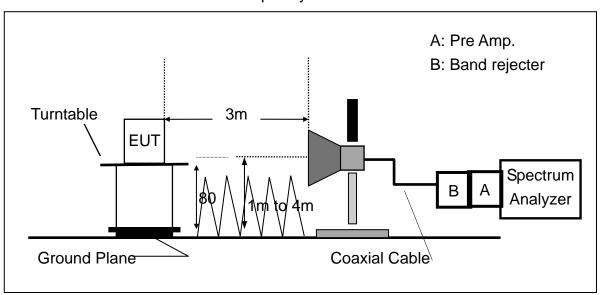
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Radiated Emission Test Set-UP Frequency Over 1 GHz



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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Page 99 of 153

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	08/04/2017	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 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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Page 100 of 153

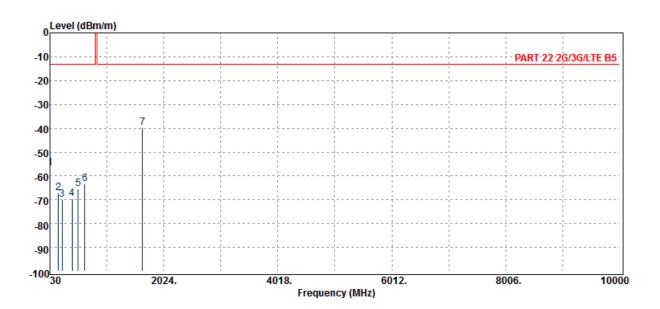
10.5. Measurement Result:

Radiated Spurious Emission Measurement Result: GPPRS 850 Mode

:GPRS 850 :24 deg_C / 61 RH **Operation Band** Temp./Humi.

Fundamental Frequency :824.2 MHz Engineer **Operation Mode** :Tx CH LOW

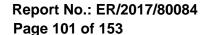
EUT Pol. :H Plane :VERTICAL Measurement Antenna Pol.



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
30.00	S	-56.72	-40.98	-14.78	-0.96	-13.00	-43.72
180.35	S	-67.14	-66.53	0.95	-1.56	-13.00	-54.14
245.34	S	-69.84	-71.46	3.37	-1.75	-13.00	-56.84
415.09	S	-69.60	-71.00	3.77	-2.37	-13.00	-56.60
526.64	S	-65.40	-66.65	3.71	-2.46	-13.00	-52.40
636.25	S	-63.47	-64.18	3.17	-2.45	-13.00	-50.47
1648.40	Н	-39.85	-42.73	7.11	-4.22	-13.00	-26.85

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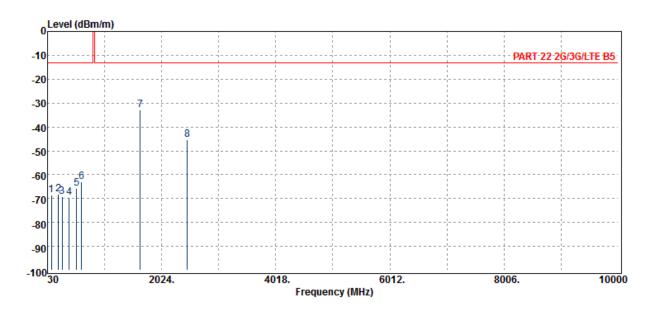
EUT Pol.

:GPRS 850 :824.2 MHz :Tx CH LOW :H Plane

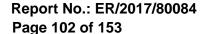
Temp./Humi. :24 deg_C / 61 RH

Engineer :Tin

:HORIZONTAL Measurement Antenna Pol.



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
-			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
							_
95.96	S	-68.40	-66.01	-1.16	-1.23	-13.00	-55.40
220.12	S	-68.14	-69.76	3.33	-1.70	-13.00	-55.14
288.99	S	-69.25	-70.76	3.43	-1.92	-13.00	-56.25
410.24	S	-69.56	-70.95	3.78	-2.40	-13.00	-56.56
536.34	S	-65.78	-66.87	3.66	-2.56	-13.00	-52.78
628.49	S	-62.83	-63.54	3.18	-2.47	-13.00	-49.83
1648.40	Н	-33.02	-35.91	7.11	-4.22	-13.00	-20.02
2472.60	Н	-45.38	-48.88	8.73	-5.22	-13.00	-32.38





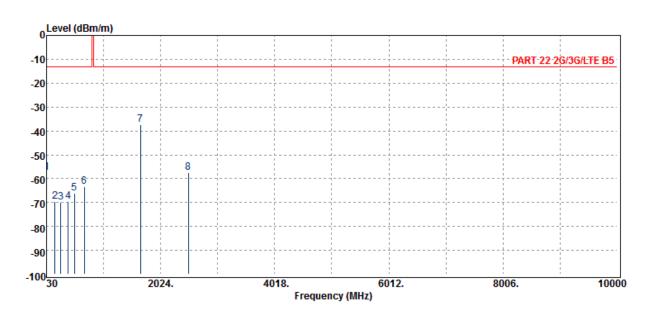
EUT Pol.

:GPRS 850 :836.6 MHz :Tx CH MID :H Plane

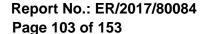
Temp./Humi. :24 deg_C / 61 RH

Engineer :Tin

:VERTICAL Measurement Antenna Pol.



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
-			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
30.00	S	-57.42	-41.69	-14.78	-0.96	-13.00	-44.42
180.35	S	-69.69	-69.08	0.95	-1.56	-13.00	-56.69
277.35	S	-69.77	-71.35	3.45	-1.86	-13.00	-56.77
410.24	S	-69.41	-70.79	3.78	-2.40	-13.00	-56.41
515.00	S	-66.18	-67.59	3.77	-2.36	-13.00	-53.18
689.60	S	-63.17	-63.47	3.09	-2.79	-13.00	-50.17
1673.20	Н	-37.44	-40.35	7.20	-4.29	-13.00	-24.44
2509.80	Н	-57.29	-60.79	8.76	-5.26	-13.00	-44.29





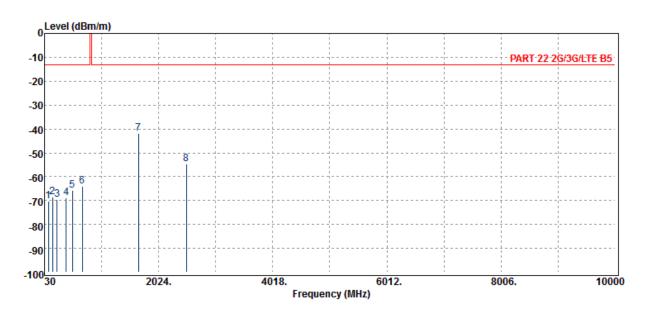
:836.6 MHz :Tx CH MID EUT Pol. :H Plane

:GPRS 850

Temp./Humi. :24 deg_C / 61 RH

Engineer :Tin

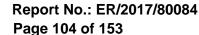
:HORIZONTAL Measurement Antenna Pol.



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
•			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
97.90	S	-70.29	-67.67	-1.38	-1.24	-13.00	-57.29
172.59	S	-68.41	-66.44	-0.44	-1.53	-13.00	-55.41
249.22	S	-69.70	-71.38	3.43	-1.76	-13.00	-56.70
411.21	S	-68.93	-70.32	3.78	-2.39	-13.00	-55.93
517.91	S	-65.88	-67.27	3.76	-2.37	-13.00	-52.88
692.51	S	-63.91	-64.16	3.09	-2.84	-13.00	-50.91
1673.20	Н	-41.82	-44.73	7.20	-4.29	-13.00	-28.82
2509.80	Н	-54.65	-58.15	8.76	-5.26	-13.00	-41.65

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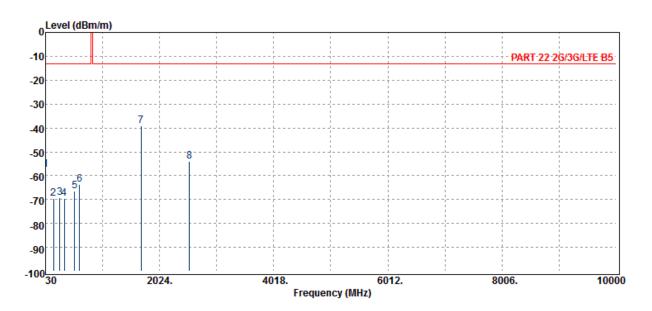
EUT Pol.

:GPRS 850 :848.8 MHz :Tx CH HIGH :H Plane

Temp./Humi. :24 deg_C / 61 RH

Engineer :Tin

:VERTICAL Measurement Antenna Pol.



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
•			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
30.00	S	-57.52	-41.78	-14.78	-0.96	-13.00	-44.52
173.56	S	-69.40	-67.61	-0.26	-1.53	-13.00	-56.40
279.29	S	-69.19	-70.75	3.43	-1.87	-13.00	-56.19
356.89	S	-69.58	-71.33	3.86	-2.10	-13.00	-56.58
536.34	S	-66.51	-67.61	3.66	-2.56	-13.00	-53.51
624.61	S	-63.72	-64.41	3.19	-2.51	-13.00	-50.72
1697.60	Н	-39.08	-42.05	7.28	-4.31	-13.00	-26.08
2546.40	Н	-54.10	-57.58	8.81	-5.33	-13.00	-41.10

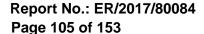
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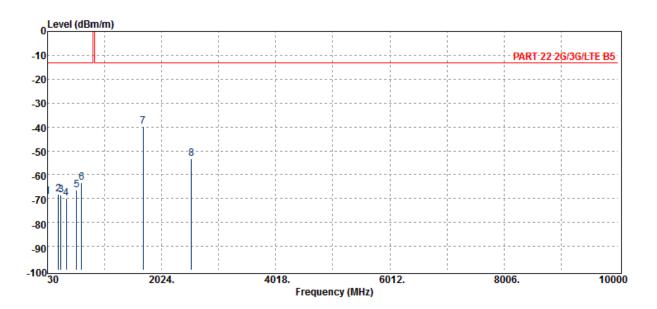


:GPRS 850 :848.8 MHz :Tx CH HIGH :H Plane

Temp./Humi. :24 deg_C / 61 RH

Engineer :Tin

:HORIZONTAL Measurement Antenna Pol.



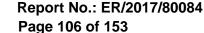
	Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
				Output Level	Gain	Loss		
_	MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
	30.00	S	-69.10	-53.36	-14.78	-0.96	-13.00	-56.10
	219.15	S	-68.06	-69.70	3.34	-1.70	-13.00	-55.06
	265.71	S	-68.64	-70.42	3.58	-1.80	-13.00	-55.64
	361.74	S	-69.75	-71.46	3.85	-2.14	-13.00	-56.75
	539.25	S	-66.43	-67.48	3.64	-2.59	-13.00	-53.43
	626.55	S	-63.34	-64.03	3.19	-2.49	-13.00	-50.34
	1697.60	Н	-39.72	-42.69	7.28	-4.31	-13.00	-26.72
	2546.40	Н	-53.33	-56.81	8.81	-5.33	-13.00	-40.33

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Operation Mode

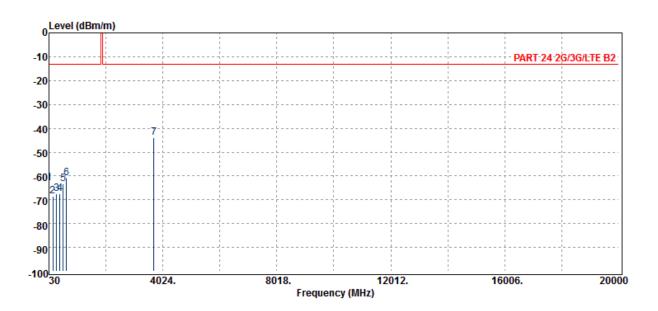
Radiated Spurious Emission Measurement Result: GPRS 1900 Mode

:Tx CH LOW

Operation Band :GPRS 1900 Temp./Humi. :22 deg_C / 62 RH

Fundamental Frequency :1850.2 MHz Engineer :Tin

EUT Pol. :H Plane :VERTICAL Measurement Antenna Pol.



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
30.00	S	-62.89	8.78	-12.63	-0.96	-13.00	-49.89
168.71	S	-68.59	2.88	1.15	-1.51	-13.00	-55.59
298.69	S	-67.42	-0.73	5.75	-1.95	-13.00	-54.42
419.94	S	-67.32	0.21	5.90	-2.33	-13.00	-54.32
531.49	S	-63.43	3.46	5.84	-2.51	-13.00	-50.43
639.16	S	-60.85	5.79	5.31	-2.44	-13.00	-47.85
3700.40	Н	-43.97	6.77	12.44	-6.58	-13.00	-30.97

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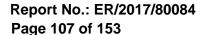
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Operation Mode EUT Pol.

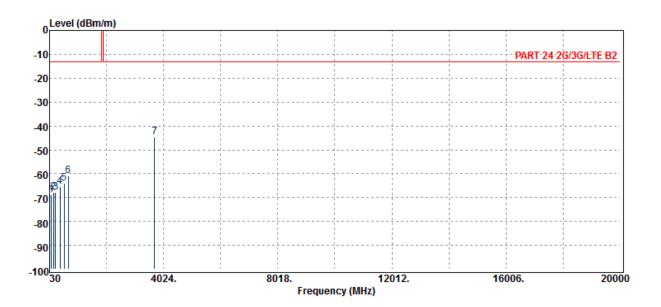
:GPRS 1900 :1850.2 MHz :Tx CH LOW

:H Plane

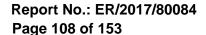
Temp./Humi. :22 deg_C / 62 RH

Engineer :Tin

:HORIZONTAL Measurement Antenna Pol.



Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
•			Output Level	Gain	Loss		· ·
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
94.99	S	-68.89	1.56	1.11	-1.23	-13.00	-55.89
167.74	S	-67.88	3.43	1.08	-1.51	-13.00	-54.88
243.40	S	-67.68	-0.01	5.49	-1.75	-13.00	-54.68
400.54	S	-65.23	-0.57	5.97	-2.38	-13.00	-52.23
547.01	S	-63.90	3.49	5.75	-2.67	-13.00	-50.90
684.75	S	-60.85	6.74	5.25	-2.70	-13.00	-47.85
3700.40	Н	-44.61	6.96	12.44	-6.58	-13.00	-31.61





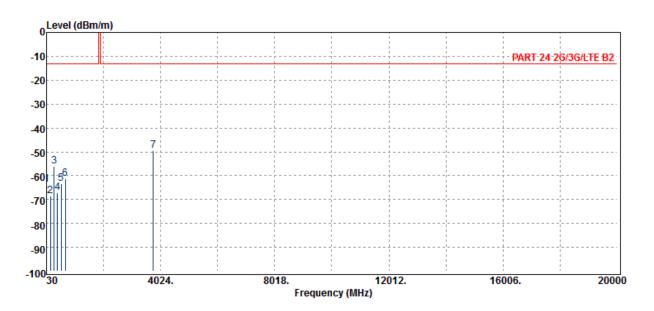
EUT Pol.

:GPRS 1900 :1880 MHz :Tx CH MID :H Plane

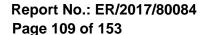
Temp./Humi. :22 deg_C / 62 RH

Engineer :Tin

:VERTICAL Measurement Antenna Pol.



Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
·			Output Level	Gain	Loss		•
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
							_
30.00	S	-63.60	8.78	-12.63	-0.96	-13.00	-50.60
165.80	S	-68.39	3.61	0.94	-1.50	-13.00	-55.39
294.81	S	-55.96	-0.59	5.67	-1.94	-13.00	-42.96
413.15	S	-67.02	0.04	5.92	-2.38	-13.00	-54.02
544.10	S	-63.26	3.49	5.77	-2.64	-13.00	-50.26
684.75	S	-61.32	6.74	5.25	-2.70	-13.00	-48.32
3760.00	Н	-49.40	6.77	12.45	-6.60	-13.00	-36.40





Operation Mode EUT Pol.

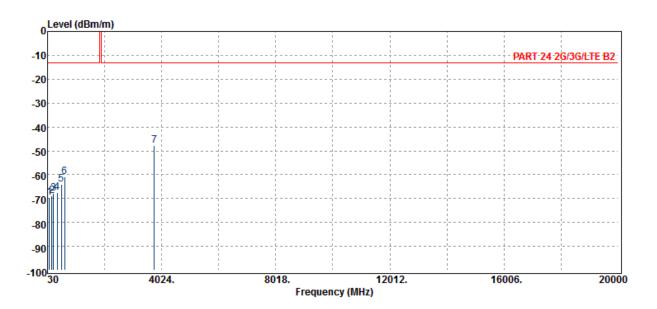
:GPRS 1900 :1880 MHz :Tx CH MID

:H Plane

Temp./Humi. :22 deg_C / 62 RH

Engineer :Tin

:HORIZONTAL Measurement Antenna Pol.



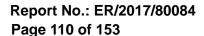
Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
•			Output Level	Gain	Loss		· ·
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
95.96	S	-69.68	1.83	0.99	-1.23	-13.00	-56.68
180.35	S	-68.98	1.08	3.10	-1.56	-13.00	-55.98
239.52	S	-67.94	0.24	5.43	-1.74	-13.00	-54.94
372.41	S	-67.44	-0.45	5.99	-2.21	-13.00	-54.44
519.85	S	-63.92	2.94	5.90	-2.39	-13.00	-50.92
628.49	S	-60.95	6.15	5.33	-2.47	-13.00	-47.95
3760.00	Н	-47.63	7.06	12.45	-6.60	-13.00	-34.63

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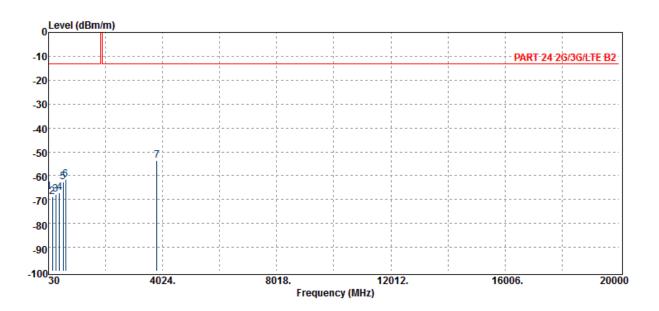
EUT Pol.

:GPRS 1900 :1909.8 MHz :Tx CH HIGH :H Plane

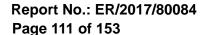
Temp./Humi. :22 deg_C / 62 RH

Engineer :Tin

:VERTICAL Measurement Antenna Pol.



Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
•			Output Level	Gain	Loss		· ·
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
37.76	S	-66.80	9.04	-11.17	-0.98	-13.00	-53.80
162.89	S	-68.95	3.10	0.73	-1.49	-13.00	-55.95
287.05	S	-67.73	-0.55	5.58	-1.91	-13.00	-54.73
415.09	S	-67.02	0.07	5.92	-2.37	-13.00	-54.02
544.10	S	-62.70	3.49	5.77	-2.64	-13.00	-49.70
628.49	S	-61.56	6.15	5.33	-2.47	-13.00	-48.56
3819.60	Н	-53.80	7.19	12.47	-6.65	-13.00	-40.80





EUT Pol.

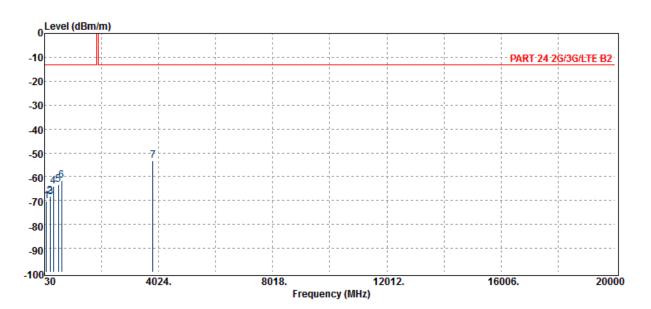
:GPRS 1900 :1909.8 MHz :Tx CH HIGH :H Plane

Temp./Humi.

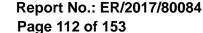
:22 deg_C / 62 RH

Engineer :Tin

:HORIZONTAL Measurement Antenna Pol.



Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
•			Output Level	Gain	Loss		· ·
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
95.96	S	-70.17	1.83	0.99	-1.23	-13.00	-57.17
219.15	S	-68.06	-1.63	5.49	-1.70	-13.00	-55.06
246.31	S	-68.62	-0.33	5.53	-1.75	-13.00	-55.62
347.19	S	-63.95	-0.74	6.00	-2.02	-13.00	-50.95
512.09	S	-63.37	2.29	5.94	-2.35	-13.00	-50.37
624.61	S	-61.68	6.14	5.34	-2.51	-13.00	-48.68
3819.60	Н	-53.44	7.51	12.47	-6.65	-13.00	-40.44



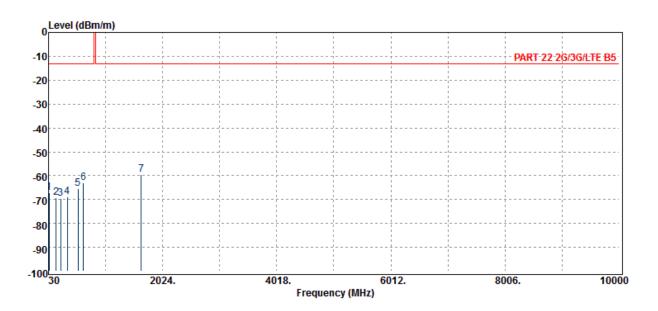


Radiated Spurious Emission Measurement Result: WCDMA Band 5 Mode

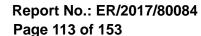
Operation Band Temp./Humi. :WCDMA B5 :24 deg_C / 61 RH

Fundamental Frequency :826.4 MHz Engineer :Tin :Tx CH LOW **Operation Mode**

EUT Pol. :H Plane :VERTICAL Measurement Antenna Pol.



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin	
•			Output Level	Gain	Loss		J	
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB	
37.76	S	-66.97	-52.67	-13.32	-0.98	-13.00	-53.97	
165.80	S	-69.17	-66.45	-1.21	-1.50	-13.00	-56.17	
239.52	S	-69.56	-71.10	3.28	-1.74	-13.00	-56.56	
357.86	S	-68.97	-70.72	3.85	-2.11	-13.00	-55.97	
547.01	S	-65.40	-66.34	3.60	-2.67	-13.00	-52.40	
641.10	S	-63.13	-63.85	3.16	-2.43	-13.00	-50.13	
1652.80	Н	-59.38	-62.27	7.12	-4.24	-13.00	-46.38	



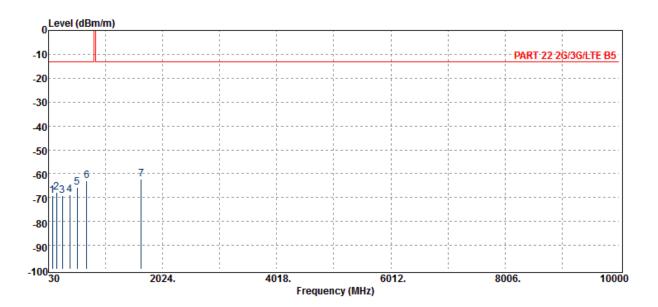


:WCDMA B5 :826.4 MHz :Tx CH LOW :H Plane

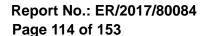
Temp./Humi. :24 deg_C / 61 RH

Engineer :Tin

:HORIZONTAL Measurement Antenna Pol.



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin	
•			Output Level	Gain	Loss		J	
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB	
								•
97.90	S	-69.15	-66.53	-1.38	-1.24	-13.00	-56.15	
173.56	S	-67.86	-66.06	-0.26	-1.53	-13.00	-54.86	
272.50	S	-69.04	-70.69	3.49	-1.84	-13.00	-56.04	
400.54	S	-68.78	-70.22	3.82	-2.38	-13.00	-55.78	
534.40	S	-65.83	-66.95	3.67	-2.54	-13.00	-52.83	
694.45	S	-63.13	-63.34	3.09	-2.88	-13.00	-50.13	
1652.80	Н	-62.37	-65.26	7.12	-4.24	-13.00	-49.37	



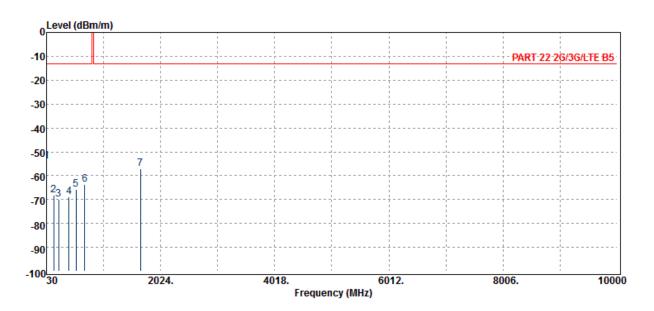


:WCDMA B5 :836.6 MHz :Tx CH MID :H Plane

Temp./Humi. :24 deg_C / 61 RH

Engineer :Tin

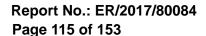
:VERTICAL Measurement Antenna Pol.



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin	
•			Output Level	Gain	Loss		· ·	
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB	
30.00	S	-53.88	-38.15	-14.78	-0.96	-13.00	-40.88	
159.01	S	-68.24	-65.09	-1.68	-1.47	-13.00	-55.24	
241.46	S	-69.95	-71.52	3.31	-1.74	-13.00	-56.95	
419.94	S	-69.01	-70.42	3.75	-2.33	-13.00	-56.01	
547.01	S	-65.62	-66.55	3.60	-2.67	-13.00	-52.62	
694.45	S	-63.53	-63.74	3.09	-2.88	-13.00	-50.53	
1673.20	Н	-56.99	-59.90	7.20	-4.29	-13.00	-43.99	

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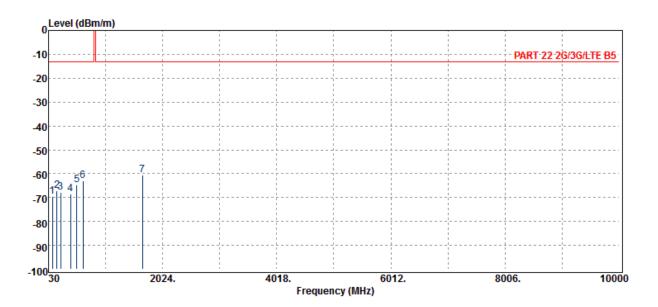


:WCDMA B5 :836.6 MHz :Tx CH MID :H Plane

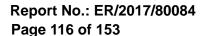
Temp./Humi. :24 deg_C / 61 RH

Engineer :Tin

:HORIZONTAL Measurement Antenna Pol.



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
•			Output Level	Gain	Loss		· ·
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
95.96	S	-69.50	-67.11	-1.16	-1.23	-13.00	-56.50
175.50	S	-67.10	-65.65	0.09	-1.54	-13.00	-54.10
240.49	S	-67.95	-69.50	3.29	-1.74	-13.00	-54.95
418.00	S	-68.67	-70.08	3.76	-2.35	-13.00	-55.67
524.70	S	-64.76	-66.04	3.72	-2.44	-13.00	-51.76
629.46	S	-63.14	-63.86	3.18	-2.47	-13.00	-50.14
1673.20	Н	-60.56	-63.46	7.20	-4.29	-13.00	-47.56



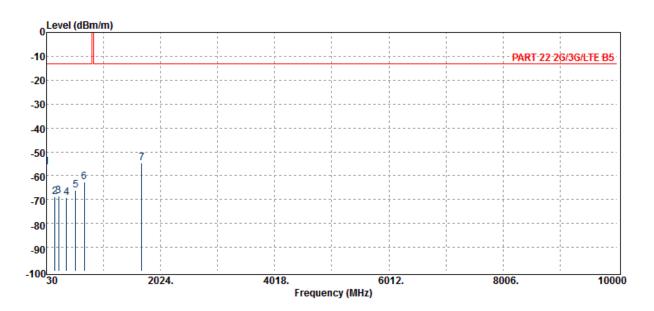


:WCDMA B5 :846.6 MHz :Tx CH HIGH :H Plane

Temp./Humi. :24 deg_C / 61 RH

Engineer :Tin

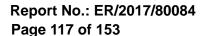
:VERTICAL Measurement Antenna Pol.



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
•			Output Level	Gain	Loss		· ·
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
							_
30.00	S	-56.41	-40.67	-14.78	-0.96	-13.00	-43.41
178.41	S	-68.83	-67.88	0.61	-1.55	-13.00	-55.83
246.31	S	-68.46	-70.09	3.38	-1.75	-13.00	-55.46
379.20	S	-69.23	-70.81	3.84	-2.26	-13.00	-56.23
539.25	S	-66.17	-67.22	3.64	-2.59	-13.00	-53.17
689.60	S	-62.66	-62.96	3.09	-2.79	-13.00	-49.66
1693.20	Н	-54.84	-57.80	7.27	-4.30	-13.00	-41.84

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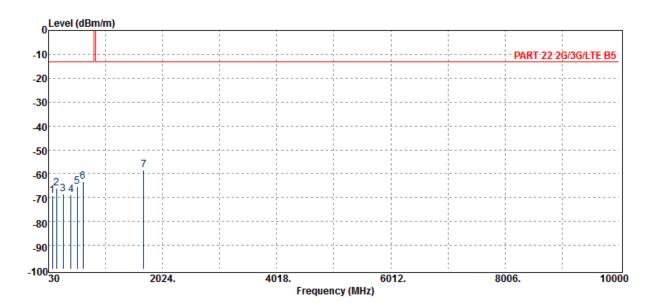


:WCDMA B5 :846.6 MHz :Tx CH HIGH :H Plane

Temp./Humi. :24 deg_C / 61 RH

Engineer :Tin

:HORIZONTAL Measurement Antenna Pol.



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
•			Output Level	Gain	Loss		· ·
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
							_
95.96	S	-69.14	-66.75	-1.16	-1.23	-13.00	-56.14
173.56	S	-66.07	-64.28	-0.26	-1.53	-13.00	-53.07
285.11	S	-68.63	-70.15	3.43	-1.90	-13.00	-55.63
419.94	S	-68.73	-70.14	3.75	-2.33	-13.00	-55.73
529.55	S	-65.56	-66.77	3.70	-2.49	-13.00	-52.56
633.34	S	-63.20	-63.91	3.17	-2.46	-13.00	-50.20
1693.20	Н	-58.39	-61.35	7.27	-4.30	-13.00	-45.39



Report No.: ER/2017/80084

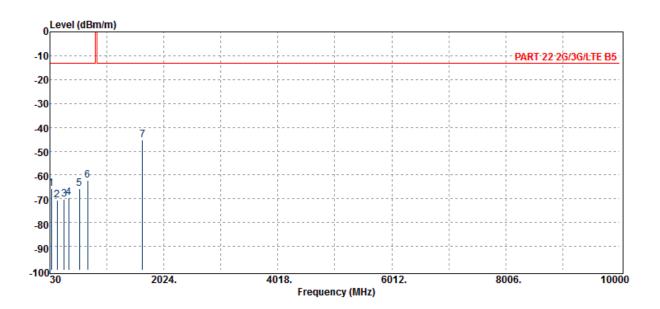
Page 118 of 153

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

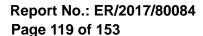
Operation Band Temp./Humi. :LTE B5 :22 deg C / 62 RH

Fundamental Frequency :825.5 MHz Engineer :Tin **Operation Mode** :Tx CH LOW

EUT Pol. :H Plane :VERTICAL Measurement Antenna Pol.



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
•			Output Level	Gain	Loss		· ·
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
							_
57.16	S	-65.88	-55.36	-9.44	-1.07	-13.00	-52.88
158.04	S	-70.60	-67.41	-1.73	-1.47	-13.00	-57.60
279.29	S	-70.28	-71.84	3.43	-1.87	-13.00	-57.28
361.74	S	-69.57	-71.28	3.85	-2.14	-13.00	-56.57
546.04	S	-65.60	-66.55	3.61	-2.66	-13.00	-52.60
689.60	S	-62.46	-62.76	3.09	-2.79	-13.00	-49.46
1651.00	Н	-45.41	-50.45	9.27	-4.23	-13.00	-32.41



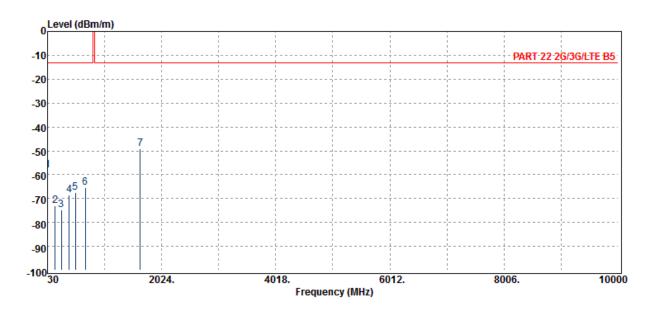


:LTE B5 :825.5 MHz **Operation Mode** :Tx CH LOW EUT Pol. :H Plane

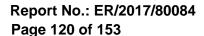
Temp./Humi. :22 deg_C / 62 RH

Engineer :Tin

:HORIZONTAL Measurement Antenna Pol.



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
•			Output Level	Gain	Loss		· ·
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
							_
30.00	S	-58.27	-42.53	-14.78	-0.96	-13.00	-45.27
159.98	S	-72.91	-69.80	-1.64	-1.48	-13.00	-59.91
274.44	S	-74.63	-76.25	3.47	-1.85	-13.00	-61.63
408.30	S	-68.60	-69.97	3.79	-2.41	-13.00	-55.60
519.85	S	-67.52	-68.88	3.75	-2.39	-13.00	-54.52
691.54	S	-65.40	-65.66	3.09	-2.83	-13.00	-52.40
1651.00	Н	-49.30	-54.34	9.27	-4.23	-13.00	-36.30





EUT Pol.

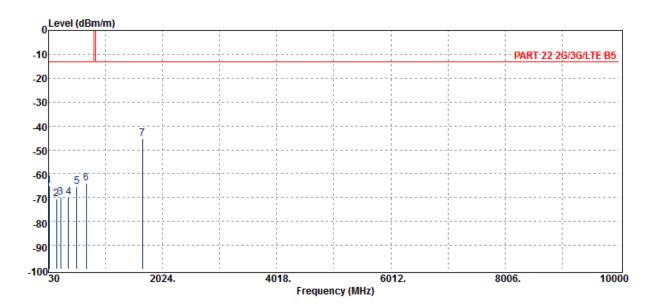
:LTE B5 :836.5 MHz :Tx CH MID :H Plane

Temp./Humi.

:22 deg_C / 62 RH

Engineer :Tin

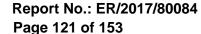
:VERTICAL Measurement Antenna Pol.



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
•			Output Level	Gain	Loss		J
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
39.70	S	-65.18	-51.08	-13.11	-0.99	-13.00	-52.18
172.59	S	-70.60	-68.63	-0.44	-1.53	-13.00	-57.60
243.40	S	-69.84	-71.44	3.34	-1.75	-13.00	-56.84
379.20	S	-69.96	-71.54	3.84	-2.26	-13.00	-56.96
527.61	S	-65.53	-66.76	3.71	-2.47	-13.00	-52.53
687.66	S	-63.97	-64.30	3.10	-2.76	-13.00	-50.97
1673.00	Н	-45.31	-50.37	9.35	-4.29	-13.00	-32.31

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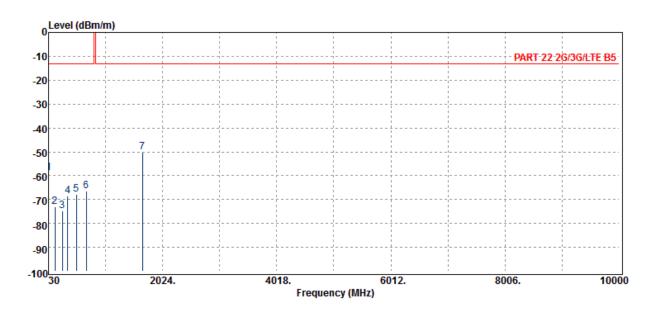
:836.5 MHz **Operation Mode** :Tx CH MID EUT Pol. :H Plane

:LTE B5

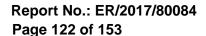
Temp./Humi. :22 deg_C / 62 RH

Engineer :Tin

:HORIZONTAL Measurement Antenna Pol.



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
•			Output Level	Gain	Loss		· ·
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
							_
30.00	S	-58.97	-43.23	-14.78	-0.96	-13.00	-45.97
144.46	S	-72.98	-69.15	-2.43	-1.41	-13.00	-59.98
269.59	S	-74.61	-76.30	3.51	-1.82	-13.00	-61.61
367.56	S	-68.39	-70.05	3.85	-2.18	-13.00	-55.39
519.85	S	-67.65	-69.01	3.75	-2.39	-13.00	-54.65
691.54	S	-66.57	-66.84	3.09	-2.83	-13.00	-53.57
1673.00	Н	-50.17	-55.23	9.35	-4.29	-13.00	-37.17





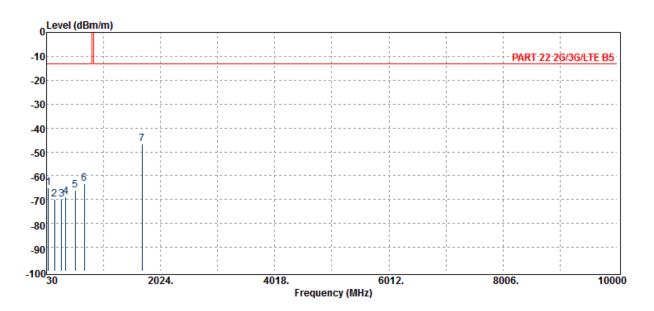
EUT Pol.

:LTE B5 :848.3 MHz :Tx CH HIGH :H Plane

Temp./Humi. :22 deg_C / 62 RH

Engineer :Tin

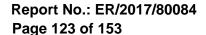
:VERTICAL Measurement Antenna Pol.



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
•			Output Level	Gain	Loss		· ·
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
59.10	S	-65.02	-54.97	-8.97	-1.08	-13.00	-52.02
173.56	S	-69.98	-68.18	-0.26	-1.53	-13.00	-56.98
293.84	S	-70.04	-71.61	3.50	-1.94	-13.00	-57.04
367.56	S	-68.93	-70.59	3.85	-2.18	-13.00	-55.93
529.55	S	-66.22	-67.42	3.70	-2.49	-13.00	-53.22
687.66	S	-63.21	-63.55	3.10	-2.76	-13.00	-50.21
1696.60	Н	-46.86	-49.83	7.28	-4.31	-13.00	-33.86

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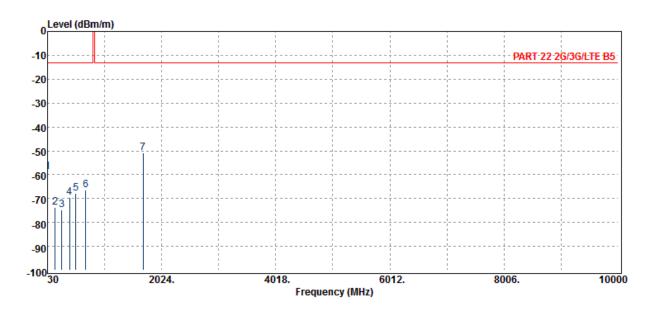
EUT Pol.

:LTE B5 :848.3 MHz :Tx CH HIGH :H Plane

Temp./Humi. :22 deg_C / 62 RH

Engineer :Tin

:HORIZONTAL Measurement Antenna Pol.



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
•			Output Level	Gain	Loss		· ·
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
							_
30.00	S	-58.96	-43.22	-14.78	-0.96	-13.00	-45.96
165.80	S	-73.79	-71.08	-1.21	-1.50	-13.00	-60.79
280.26	S	-74.59	-76.14	3.42	-1.88	-13.00	-61.59
413.15	S	-69.48	-70.88	3.77	-2.38	-13.00	-56.48
521.79	S	-67.92	-69.25	3.74	-2.41	-13.00	-54.92
700.27	S	-66.34	-66.45	3.08	-2.98	-13.00	-53.34
1696.60	Н	-50.78	-53.76	7.28	-4.31	-13.00	-37.78

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Report No.: ER/2017/80084

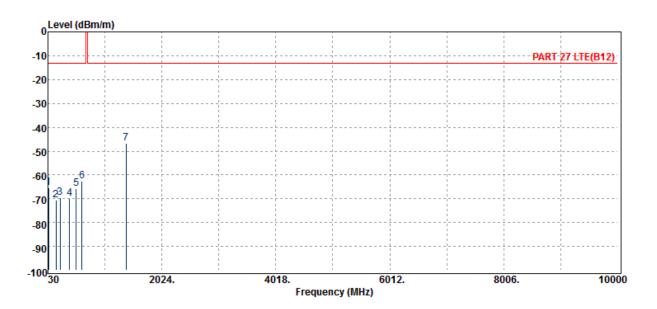
Page 124 of 153

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

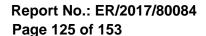
Operation Band Temp./Humi. :LTE B12 :22 deg C / 62 RH

Fundamental Frequency :699.7 MHz Engineer :Tin :Tx CH LOW **Operation Mode**

EUT Pol. :H Plane :VERTICAL Measurement Antenna Pol.



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
·			Output Level	Gain	Loss		•
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
37.76	S	-65.47	-51.17	-13.32	-0.98	-13.00	-52.47
167.74	S	-70.70	-68.12	-1.07	-1.51	-13.00	-57.70
239.52	S	-69.66	-71.19	3.28	-1.74	-13.00	-56.66
405.39	S	-69.82	-71.21	3.80	-2.41	-13.00	-56.82
526.64	S	-65.64	-66.89	3.71	-2.46	-13.00	-52.64
621.70	S	-62.48	-63.14	3.20	-2.53	-13.00	-49.48
1399.40	Н	-46.82	-51.20	8.27	-3.89	-13.00	-33.82





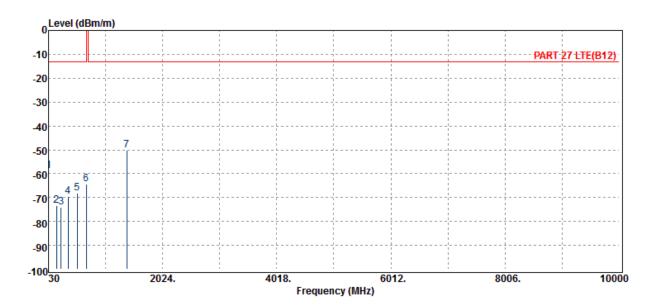
EUT Pol.

:LTE B12 :699.7 MHz :Tx CH LOW :H Plane

Temp./Humi. :22 deg_C / 62 RH

Engineer :Tin

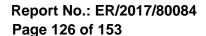
:HORIZONTAL Measurement Antenna Pol.



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin	
•			Output Level	Gain	Loss		· ·	
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB	
30.00	S	-58.94	-43.21	-14.78	-0.96	-13.00	-45.94	
172.59	S	-73.34	-71.37	-0.44	-1.53	-13.00	-60.34	
251.16	S	-73.89	-75.60	3.47	-1.76	-13.00	-60.89	
371.44	S	-69.45	-71.08	3.84	-2.21	-13.00	-56.45	
531.49	S	-68.19	-69.36	3.69	-2.51	-13.00	-55.19	
689.60	S	-64.28	-64.58	3.09	-2.79	-13.00	-51.28	
1399.40	Н	-50.09	-54.46	8.27	-3.89	-13.00	-37.09	

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Operation Mode EUT Pol.

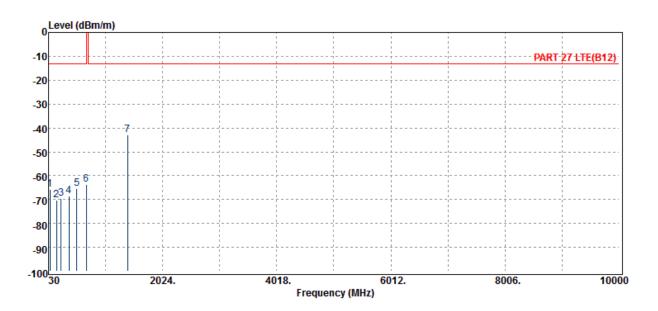
:LTE B12 :707.5 MHz :Tx CH MID :H Plane

Temp./Humi.

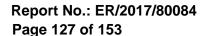
:22 deg_C / 62 RH

Engineer :Tin

:VERTICAL Measurement Antenna Pol.



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
•			Output Level	Gain	Loss		· ·
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
56.19	S	-65.67	-54.92	-9.69	-1.07	-13.00	-52.67
173.56	S	-70.41	-68.61	-0.26	-1.53	-13.00	-57.41
251.16	S	-69.58	-71.29	3.47	-1.76	-13.00	-56.58
385.99	S	-68.58	-70.12	3.83	-2.30	-13.00	-55.58
522.76	S	-65.45	-66.76	3.73	-2.42	-13.00	-52.45
689.60	S	-63.71	-64.01	3.09	-2.79	-13.00	-50.71
1415.00	Н	-42.84	-47.26	8.34	-3.91	-13.00	-29.84





Operation Band :LTE B12 :707.5 MHz

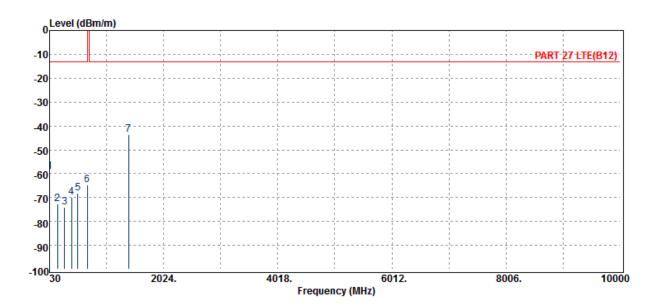
Fundamental Frequency **Operation Mode**

:Tx CH MID EUT Pol. :H Plane

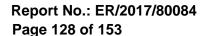
Temp./Humi. :22 deg_C / 62 RH

Engineer :Tin

:HORIZONTAL Measurement Antenna Pol.



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
•			Output Level	Gain	Loss		· ·
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
							_
30.00	S	-59.13	-43.39	-14.78	-0.96	-13.00	-46.13
167.74	S	-72.75	-70.17	-1.07	-1.51	-13.00	-59.75
294.81	S	-74.03	-75.61	3.52	-1.94	-13.00	-61.03
413.15	S	-69.82	-71.21	3.77	-2.38	-13.00	-56.82
527.61	S	-68.32	-69.56	3.71	-2.47	-13.00	-55.32
689.60	S	-64.82	-65.13	3.09	-2.79	-13.00	-51.82
1415.00	Н	-43.64	-48.06	8.34	-3.91	-13.00	-30.64





Operation Mode EUT Pol.

:LTE B12 :715.3 MHz :Tx CH HIGH

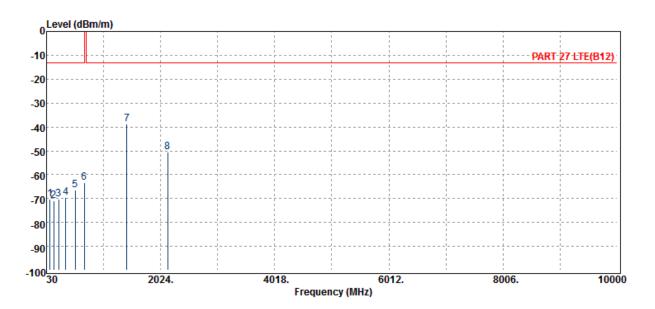
:H Plane

Temp./Humi.

:22 deg_C / 62 RH

Engineer :Tin

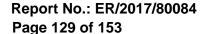
:VERTICAL Measurement Antenna Pol.



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
•			Output Level	Gain	Loss		•
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
							_
90.14	S	-70.32	-68.66	-0.45	-1.21	-13.00	-57.32
158.04	S	-71.05	-67.86	-1.73	-1.47	-13.00	-58.05
243.40	S	-70.39	-71.98	3.34	-1.75	-13.00	-57.39
366.59	S	-69.48	-71.15	3.85	-2.17	-13.00	-56.48
532.46	S	-66.52	-67.68	3.68	-2.52	-13.00	-53.52
687.66	S	-63.47	-63.81	3.10	-2.76	-13.00	-50.47
1430.60	Н	-38.71	-43.18	8.41	-3.94	-13.00	-25.71
2145.90	Н	-50.60	-56.34	10.56	-4.82	-13.00	-37.60

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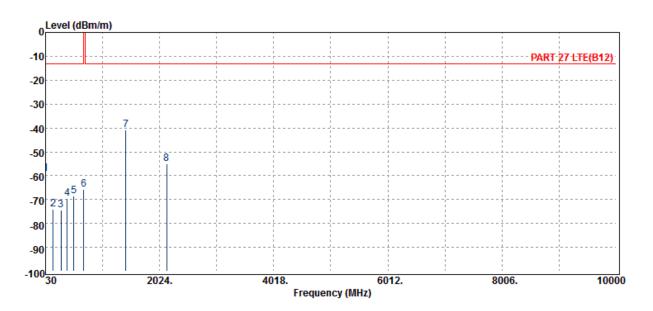


:LTE B12 :715.3 MHz :Tx CH HIGH EUT Pol. :H Plane

Temp./Humi. :22 deg_C / 62 RH

Engineer :Tin

:HORIZONTAL Measurement Antenna Pol.



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
•			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
							_
30.00	S	-59.07	-43.34	-14.78	-0.96	-13.00	-46.07
162.89	S	-74.08	-71.17	-1.42	-1.49	-13.00	-61.08
298.69	S	-74.37	-76.02	3.60	-1.95	-13.00	-61.37
406.36	S	-69.55	-70.93	3.80	-2.42	-13.00	-56.55
522.76	S	-68.40	-69.72	3.73	-2.42	-13.00	-55.40
686.69	S	-67.54	-67.90	3.10	-2.74	-13.00	-54.54
1430.60	Н	-40.88	-45.35	8.41	-3.94	-13.00	-27.88
2145.90	Н	-54.85	-60.58	10.56	-4.82	-13.00	-41.85

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Report No.: ER/2017/80084

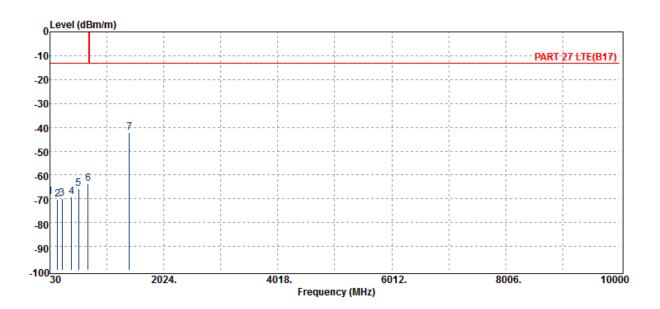
Page 130 of 153

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

Operation Band :LTE B17 Temp./Humi. :22 deg C / 62 RH

Fundamental Frequency :709.0 MHz Engineer :Tin **Operation Mode** :Tx CH LOW

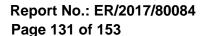
EUT Pol. :H Plane :VERTICAL Measurement Antenna Pol.



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
•			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
30.00	S	-69.37	-53.63	-14.78	-0.96	-13.00	-56.37
165.80	S	-70.15	-67.44	-1.21	-1.50	-13.00	-57.15
240.49	S	-69.80	-71.35	3.29	-1.74	-13.00	-56.80
410.24	S	-69.26	-70.65	3.78	-2.40	-13.00	-56.26
531.49	S	-65.83	-67.00	3.69	-2.51	-13.00	-52.83
697.36	S	-63.80	-63.96	3.08	-2.93	-13.00	-50.80
1418.00	Н	-42.29	-46.73	8.35	-3.92	-13.00	-29.29

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Operation Mode EUT Pol.

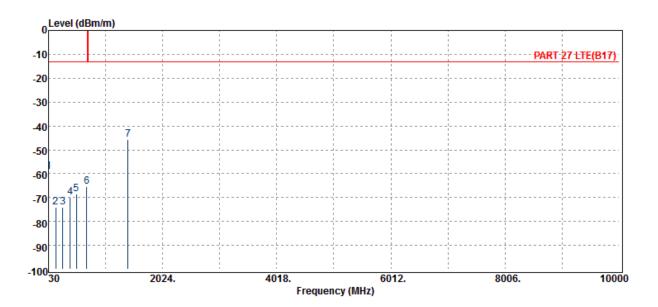
:LTE B17 :709.0 MHz :Tx CH LOW

:H Plane

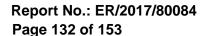
Temp./Humi. :22 deg_C / 62 RH

Engineer :Tin

:HORIZONTAL Measurement Antenna Pol.



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
•			Output Level	Gain	Loss		· ·
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
							_
30.00	S	-59.20	-43.47	-14.78	-0.96	-13.00	-46.20
153.19	S	-74.00	-70.60	-1.95	-1.44	-13.00	-61.00
277.35	S	-74.20	-75.78	3.45	-1.86	-13.00	-61.20
405.39	S	-70.04	-71.43	3.80	-2.41	-13.00	-57.04
519.85	S	-68.41	-69.77	3.75	-2.39	-13.00	-55.41
697.36	S	-65.35	-65.50	3.08	-2.93	-13.00	-52.35
1418.00	Н	-45.61	-50.05	8.35	-3.92	-13.00	-32.61





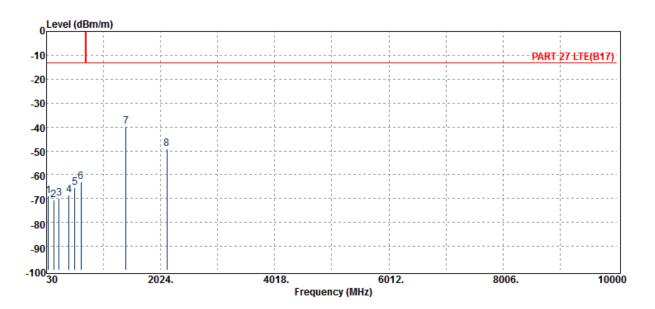
Operation Mode EUT Pol. :H Plane

:LTE B17 :710.0 MHz :Tx CH MID Temp./Humi.

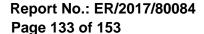
:22 deg_C / 62 RH

Engineer :Tin

:VERTICAL Measurement Antenna Pol.



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
•			Output Level	Gain	Loss		•
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
							_
59.10	S	-68.78	-58.73	-8.97	-1.08	-13.00	-55.78
154.16	S	-70.76	-67.41	-1.90	-1.45	-13.00	-57.76
250.19	S	-70.03	-71.72	3.44	-1.76	-13.00	-57.03
419.94	S	-68.51	-69.93	3.75	-2.33	-13.00	-55.51
527.61	S	-65.50	-66.74	3.71	-2.47	-13.00	-52.50
633.34	S	-62.82	-63.54	3.17	-2.46	-13.00	-49.82
1420.00	Н	-39.89	-44.33	8.36	-3.92	-13.00	-26.89
2130.00	Н	-49.16	-54.89	10.54	-4.81	-13.00	-36.16





Operation Mode EUT Pol.

:LTE B17 :710.0 MHz :Tx CH MID

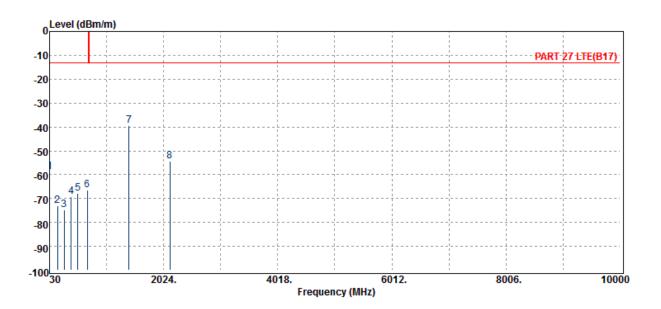
:H Plane

Temp./Humi.

:22 deg_C / 62 RH

Engineer :Tin

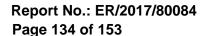
:HORIZONTAL Measurement Antenna Pol.



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
•			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
							_
30.00	S	-58.99	-43.25	-14.78	-0.96	-13.00	-45.99
167.74	S	-73.11	-70.53	-1.07	-1.51	-13.00	-60.11
288.99	S	-74.59	-76.10	3.43	-1.92	-13.00	-61.59
410.24	S	-69.09	-70.48	3.78	-2.40	-13.00	-56.09
526.64	S	-67.96	-69.21	3.71	-2.46	-13.00	-54.96
689.60	S	-66.55	-66.85	3.09	-2.79	-13.00	-53.55
1420.00	Н	-39.33	-43.77	8.36	-3.92	-13.00	-26.33
2130.00	Н	-54.28	-60.01	10.54	-4.81	-13.00	-41.28

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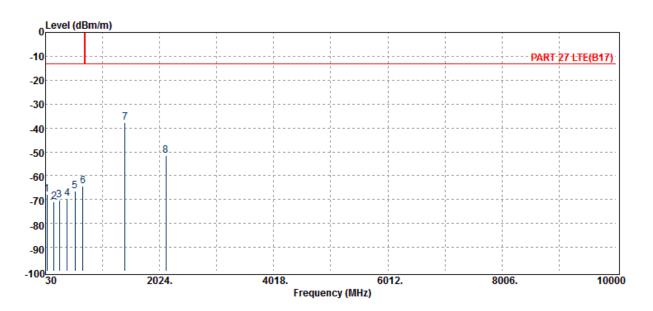
Operation Mode EUT Pol. :H Plane

:LTE B17 :711.0 MHz :Tx CH HIGH Temp./Humi.

:22 deg_C / 62 RH

Engineer :Tin

:VERTICAL Measurement Antenna Pol.



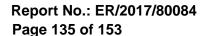
Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
57.16	S	-67.88	-57.36	-9.44	-1.07	-13.00	-54.88
180.35	S	-70.85	-70.23	0.95	-1.56	-13.00	-57.85
274.44	S	-70.22	-71.84	3.47	-1.85	-13.00	-57.22
410.24	S	-69.64	-71.02	3.78	-2.40	-13.00	-56.64
546.04	S	-66.39	-67.33	3.61	-2.66	-13.00	-53.39
682.81	S	-64.37	-64.80	3.10	-2.67	-13.00	-51.37
1422.00	Н	-37.61	-42.06	8.37	-3.93	-13.00	-24.61
2133.00	Н	-51.63	-57.36	10.54	-4.81	-13.00	-38.63

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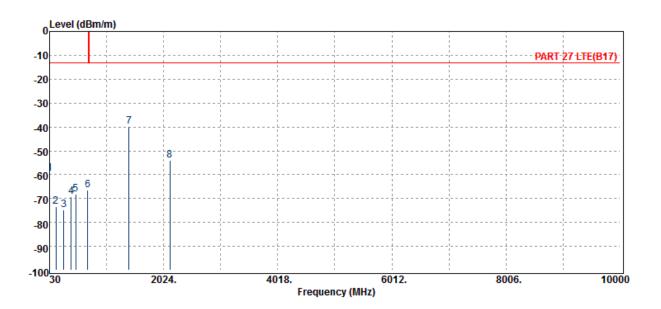
Operation Mode EUT Pol.

:LTE B17 :711.0 MHz :Tx CH HIGH :H Plane

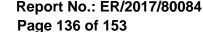
Temp./Humi. :22 deg_C / 62 RH

Engineer :Tin

:HORIZONTAL Measurement Antenna Pol.



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
•			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
							_
30.00	S	-59.34	-43.61	-14.78	-0.96	-13.00	-46.34
138.64	S	-73.25	-69.17	-2.69	-1.39	-13.00	-60.25
279.29	S	-74.86	-76.41	3.43	-1.87	-13.00	-61.86
408.30	S	-69.34	-70.72	3.79	-2.41	-13.00	-56.34
488.81	S	-68.33	-69.88	3.81	-2.27	-13.00	-55.33
694.45	S	-66.60	-66.81	3.09	-2.88	-13.00	-53.60
1422.00	Н	-39.82	-44.26	8.37	-3.93	-13.00	-26.82
2133.00	Н	-53.93	-59.66	10.54	-4.81	-13.00	-40.93



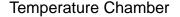


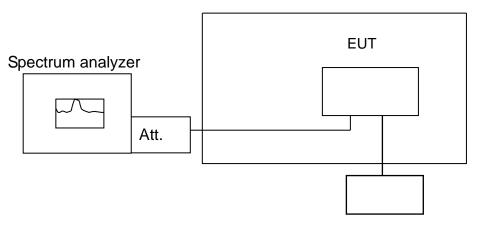
11. FREQUENCY STABILITY MEASUREMENT

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:





Variable DC Power Supply

Note: Measurement setup for testing on Antenna connector

11.3. Measurement Procedure:

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

Set chamber temperature to 25°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

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

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Page 137 of 153

11.4. Measurement Equipment Used:

Conducted Emission (measured at antenna port) Test Site						
Conduc	ted Emission (m	neasured at a	antenna port)	Test Site		
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.	
TYPE		NUMBER	NUMBER	CAL.		
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	

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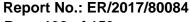
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Page 138 of 153

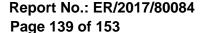
11.5. Measurement Result:

FREQUENCY ERROR vs. VOLTAGE

Reference Frequency: GPRS 850 Mid Channel 836.6 MHz						
	Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency				
Vdc	Temperature	(8.41.)	Delta (Hz)	Limit (Hz)		
	()	(MHz)				
4.42	20	836.600017	6	2091		
3.85	20	836.600011	0	2091		
3.27	20	836.600002	-9	2091		
2.8 (End point)	20	836.600026	15	2091		

FREQUENCY ERROR vs. TEMPERATURE

Re	Reference Frequency: GPRS 850 Mid Channel 836.6 MHz					
	Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency				
Vdc	Temperature ()	(MHz)	Delta (Hz)	Limit (Hz)		
3.85	50	836.600014	3	2091		
3.85	40	836.600006	-5	2091		
3.85	30	836.600007	-4	2091		
3.85	20	836.00011	0	2091		
3.85	10	836.600003	-8	2091		
3.85	0	836.600016	5	2091		
3.85	-10	836.600014	3	2091		
3.85	-20	836.600015	4	2091		
3.85	-30	836.600006	-5	2091		





FREQUENCY ERROR vs. VOLTAGE

Reference Frequency: GPRS 1900 Mid Channel 1880 MHz						
	Limit: +/- 2.5 ppm					
Power Supply	Environment	Environment Frequency				
Vdc	Temperature ()	(MHz)	Delta (Hz)	Limit (Hz)		
4.42	20	1879.999995	1	4700		
3.85	20	1879.999994	0	4700		
3.27	20	1880.000005	11	4700		
2.8 (End point)	20	1880.000003	9	4700		

FREQUENCY ERROR vs. TEMPERATURE

	EQUENOT ENTON VS. TEMI ENATURE					
R	Reference Frequency: GPRS 1900 Mid Channel 1880 MHz					
	L	_imit: +/- 2.5 ppm = H	z			
Power Supply	Environment	Frequency	Dolto (Uz)	Limit (Uz)		
Vdc	Temperature ()	(MHz)	Delta (Hz) Limit (Hz			
3.85	50	1880.000006	12	4700		
3.85	40	1879.999998	4	4700		
3.85	30	1880.000006	12	4700		
3.85	20	1879.999994	0	4700		
3.85	10	1879.999989	-5	4700		
3.85	0	1880.000015	21	4700		
3.85	-10	1880.000022	28	4700		
3.85	-20	1880.000014	20	4700		
3.85	-30	1880.000006	12	4700		

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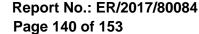
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FREQUENCY ERROR vs. VOLTAGE

	REQUERCY ENROR VS. VOLIAGE				
	Reference Frequency: WCDMA V Mid Channel 836.6 MHz				
		Limit: +/- 2	.5 ppm		
Power Supply	Environment	Frequency			
Vdc	Temperature ()	(MHz)	Delta (Hz)	Limit (Hz)	
4.42	20	836.59999	-2	2091	
3.85	20	836.599992	0	2091	
3.27	20	836.600006	14	2091	
2.8 (End Point)	20	836.600003	11	2091	

FREQUENCY ERROR vs. TEMPERATURE

	Reference Frequency: WCDMA V Mid Channel 836.6 MHz						
	Limit: +/- 2.5 ppm						
Power Supply	Environment	Frequency	Dolto (Uz)	Limit (Lla)			
Vdc	Temperature ()	(MHz)	Delta (Hz)	Limit (Hz)			
3.85	50	836.600006	14	2091			
3.85	40	836.600005	13	2091			
3.85	30	836.600004	12	2091			
3.85	20	836.599992	0	2091			
3.85	10	836.600002	10	2091			
3.85	0	836.600006	14	2091			
3.85	-10	836.600005	13	2091			
3.85	-20	836.600008	16	2091			
3.85	-30	836.600003	11	2091			

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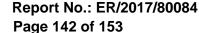
Page 141 of 153

FREQUENCY ERROR vs. VOLTAGE

Reference Frequency:		LTE B5 Mid Channel	836.5	MHz 10M QPSK CH 20525		
	Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency				
Vdc	Temperature ()	(MHz)	Delta (Hz)	Limit (Hz)		
4.42	25	836.4999877	-14.63	2091		
3.85	25	836.5000023	0	2091		
3.27	25	836.5000046	2.26	2091		
2.8 (End Point)	25	836.500004	1.67	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	Dolto (Hz)	Limit (Uz)		
Vdc	Temperature ()	(MHz)	Delta (Hz)	Limit (Hz)		
3.85	-30	836.5000102	22	2091		
3.85	-20	836.5000112	23	2091		
3.85	-10	836.4999907	2.47	2091		
3.85	0	836.4999928	4.6	2091		
3.85	10	836.499991	2.8	2091		
3.85	20	836.4999882	0	2091		
3.85	30	836.4999926	4.37	2091		
3.85	40	836.4999789	-9.3	2091		
3.85	50	836.4999927	4.47	2091		





FREQUENCY ERROR vs. VOLTAGE

FREQUENCY ERROR VS. VOLIAGE						
Reference	Frequency:	LTE B12 Mid Channel	2535.0	MHz 10M QPSK CH 23095		
	Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency				
Vdc	Temperature ()	(MHz)	Delta (Hz)	Limit (Hz)		
4.42	25	707.5000063	-7.87	1769		
3.85	25	707.5000142	0	1769		
3.27	25	707.5000059	-8.3	1769		
2.8 (End Point)	25	707.4999877	-26.5	1769		

FREQUENCY ERROR vs. TEMPERATURE

Reference	ce Frequency:	LTE B12 Mid Channel	2535.0	MHz 10M QPSK CH 23095	
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Dolto (Hz)	Limit (Uz)	
Vdc	Temperature ()	(MHz)	Delta (Hz)	Limit (Hz)	
3.85	-30	707.4999881	-14.7	1769	
3.85	-20	707.5000038	1	1769	
3.85	-10	707.4999924	-10.4	1769	
3.85	0	707.4999933	-9.5	1769	
3.85	10	707.5000035	0.7	1769	
3.85	20	707.5000028	0	1769	
3.85	30	707.5000037	0.9	1769	
3.85	40	707.4999909	-11.9	1769	
3.85	50	707.4999897	-13.1	1769	



Page 143 of 153

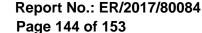
FREQUENCY ERROR vs. VOLTAGE

Reference	Frequency:	LTE B17 Mid Channel	2595.0	MHz 10M QPSK CH 38000	
				36000	
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency			
Vdc	Temperature ()	(MHz)	Delta (Hz)	Limit (Hz)	
4.42	25	710.00001	29	1775	
3.85	25	709.99998	0	1775	
3.27	25	710.00001	35	1775	
2.8 (End Point)	25	709.99999	11.1	1775	

FREQUENCY ERROR vs. TEMPERATURE

Reference	ce Frequency:	LTE B17 Mid Channel	2595.0	MHz 10M QPSK CH 38000
		Limit: +/- 2.5	ppm	
Power Supply	Environment	Frequency	Dolto (Uz)	Limit (Hz)
Vdc	Temperature ()	(MHz)	Delta (Hz)	LIIIII (F12)
3.85	-30	709.99998	-24.9	1775
3.85	-20	709.99999	-18.5	1775
3.85	-10	710.00001	2.4	1775
3.85	0	709.99998	-27.3	1775
3.85	10	709.99998	-30.3	1775
3.85	20	710.00001	0	1775
3.85	30	710	-4.4	1775
3.85	40	709.99999	-18.2	1775
3.85	50	709.99998	-27.9	1775

Note: The battery is rated 3.85V dc.



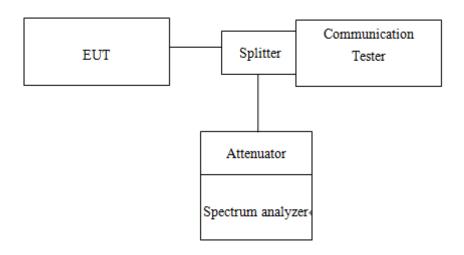


12. PEAK TO AVERAGE RATIO

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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Page 145 of 153

12.4. Measurement Equipment Used

Conduc	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					

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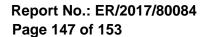
12.5. Measurement Result

Tabular Results:

Freq. (MHz)	СН	Peak-to-Average Ratio (dB)				
		GSM 1900	GPRS 1900			
1850.2	9296	9.38	9.46			
1880.0	9400	10.02	9.97			
1909.8	9538	9.55	10.00			

LTE BAND 5									
Ch	annel band	width: 1.4M	Hz	Channel bandwidth: 3MHz					
Freq.	СН	Peak-to-Average Ratio (dB)		Freq.	СН		Average (dB)		
(MHz)		16QAM	LIMIT	(MHz)		16QAM	LIMIT		
824.7	20407	5.94	13	825.5	20415	6.06	13		
836.5	20525	5.86	13	836.5	20525	5.96	13		
848.3	20643	5.57	13	847.5	20635	5.77	13		

LTE BAND 5									
С	hannel band	dwidth: 5MH	łz	Channel bandwidth: 10MHz					
Freq.	СН	Peak-to-Average Ratio (dB)		Freq.	СН		Average (dB)		
(MHz)		16QAM	LIMIT	(MHz)		16QAM	LIMIT		
826.5	20425	5.95	13	829.0	20450	5.98	13		
836.5	20525	5.91	13	836.5	20525	5.91	13		
846.5	20625	5.74	13	844.0	20600	5.81	13		





LTE BAND 12										
Ch	nannel band	width: 1.4M	Hz	Channel bandwidth: 3MHz						
Freq.	СН	Peak-to-Average Ratio (dB)		Freq.	СН	Peak-to- Ratio	U			
(MHz)		16QAM	LIMIT	(MHz)		16QAM	LIMIT			
699.7	23017	5.99	13	700.5	23025	6.14	13			
707.5	23095	5.57	13	707.5	23095	5.83	13			
715.3	23173	5.57	13	714.5	23165	5.91	13			

LTE BAND 12									
С	hannel band	dwidth: 5MF	łz	Cł	nannel band	lwidth: 10Ml	Hz		
Freq.	СН	Peak-to-Average Ratio (dB)		Freq.	СН	Peak-to- Ratio	Average (dB)		
(MHz)		16QAM	LIMIT	(MHz)		16QAM	LIMIT		
701.5	23035	6.05	13	704.0	23060	5.90	13		
707.5	23095	5.78	13	707.5	23095	5.85	13		

LTE BAND 17									
С	hannel band	dwidth: 5MF	łz	Channel bandwidth: 10MHz					
Freq.	СН	Peak-to-Average Ratio (dB)		Freq.	СН	Peak-to-Average Ratio (dB)			
(MHz)		16QAM	LIMIT	(MHz)		16QAM	LIMIT		
706.5	23755	5.92	13	709.0	23780	5.87	13		
710.0	23790	5.86	13	710.0	23790	5.94	13		
713.5	23825	5.87	13	711.0	23780	5.98	13		

Measurement Results:

Please refer to next page.

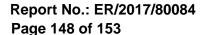
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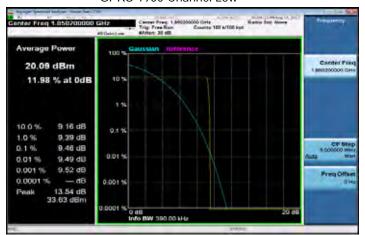




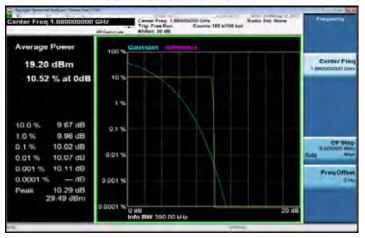
GSM 1900 Channel Low



GPRS 1900 Channel Low



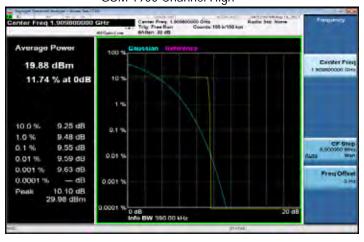
GSM 1900 Channel Mid



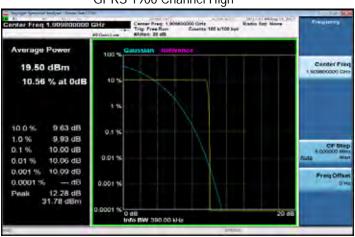
GPRS 1900 Channel Mid



GSM 1900 Channel High



GPRS 1900 Channel High



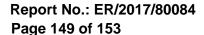
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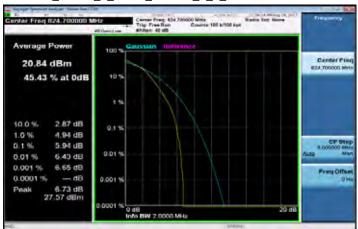
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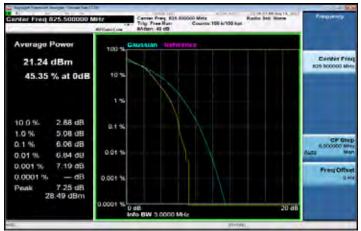




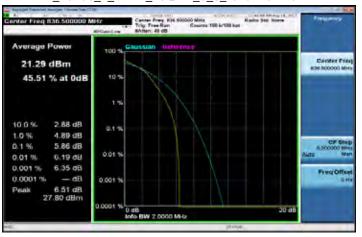
LTE Band5 1 4MHz 16QAM 6 0 Channel Low



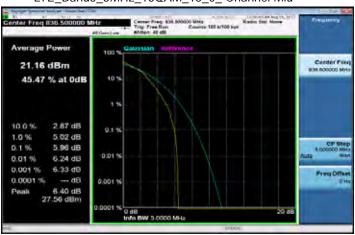
LTE_Band5_3MHz_16QAM_15_0_ Channel Low



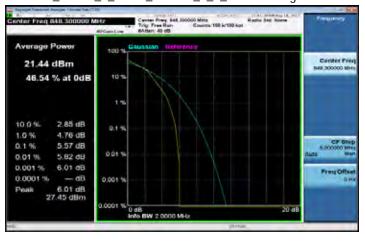
LTE_Band5_1_4MHz_16QAM_6_0_ Channel Mid



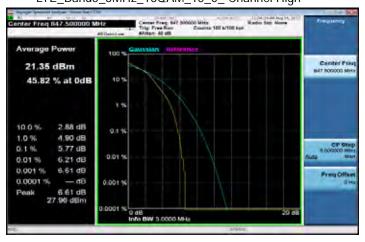
LTE_Band5_3MHz_16QAM_15_0_ Channel Mid



LTE_Band5_1_4MHz_16QAM_6_0_ Channel High



LTE_Band5_3MHz_16QAM_15_0_ Channel High



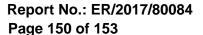
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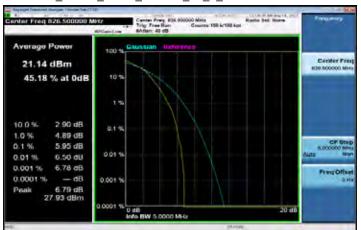
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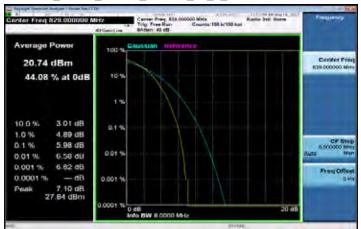




LTE_Band5_5MHz_16QAM_25_0_ Channel Low



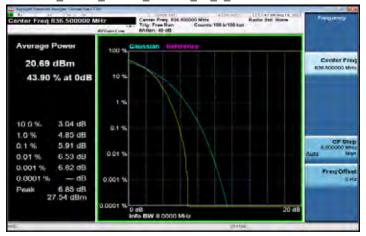
LTE_Band5_10MHz_16QAM_50_0_ Channel Low



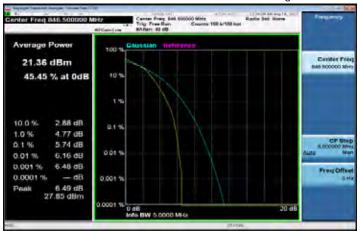
LTE_Band5_5MHz_16QAM_25_0_ Channel Mid



LTE_Band5_10MHz_16QAM_50_0_ Channel Mid



LTE Band5 5MHz 16QAM 25 0 Channel High



LTE_Band5_10MHz_16QAM_50_0_ Channel High

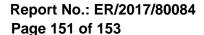


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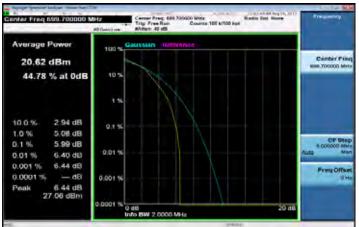
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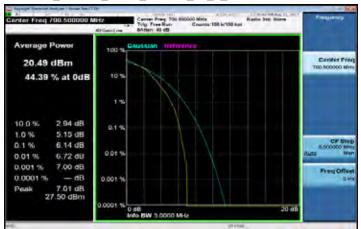




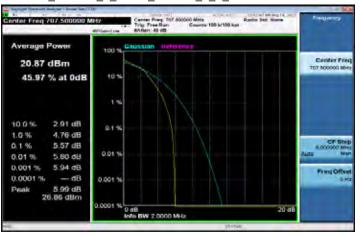
LTE_Band12_1_4MHz_16QAM_6_0_ Channel Low



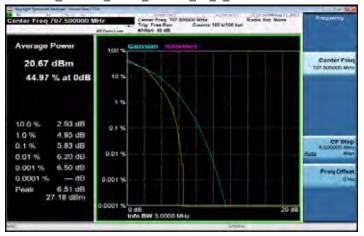
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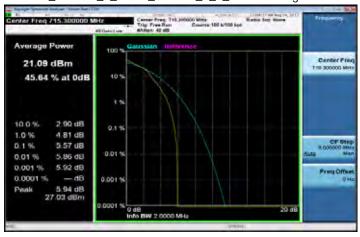
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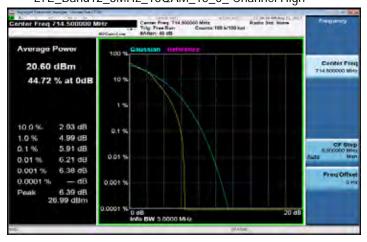
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LTE_Band12_1_4MHz_16QAM_6_0_ Channel High



LTE_Band12_3MHz_16QAM_15_0_ Channel High

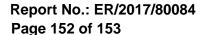


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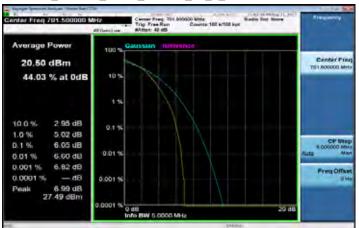
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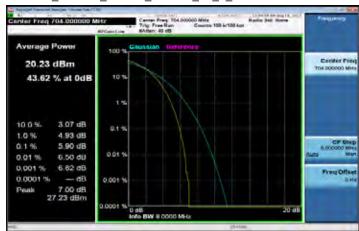




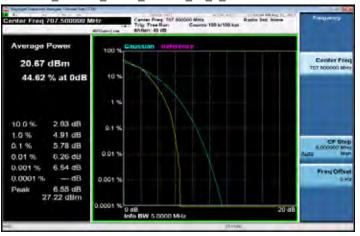
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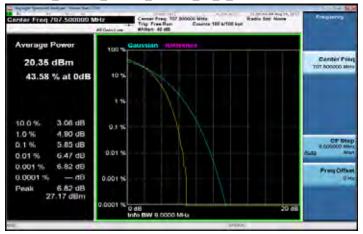
LTE_Band12_10MHz_16QAM_50_0_ Channel Low



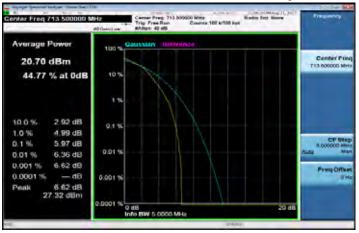
LTE_Band12_5MHz_16QAM_25_0_ Channel Mid



LTE_Band12_10MHz_16QAM_50_0_ Channel Mid



LTE_Band12_5MHz_16QAM_25_0_ Channel High



LTE_Band12_10MHz_16QAM_50_0_ Channel High

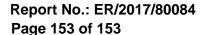


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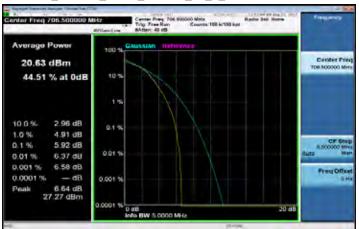
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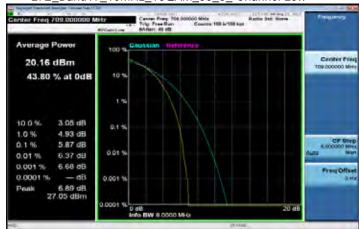




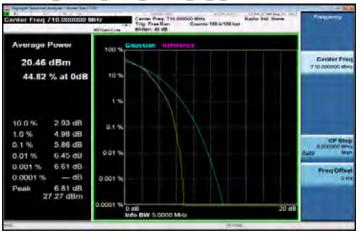
LTE_Band17_5MHz_16QAM_25_0_ Channel Low



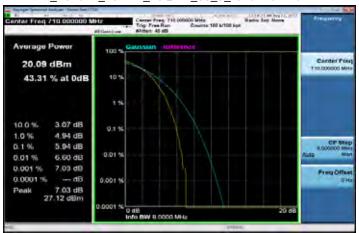
LTE_Band17_10MHz_16QAM_50_0_ Channel Low



LTE_Band17_5MHz_16QAM_25_0_ Channel Mid



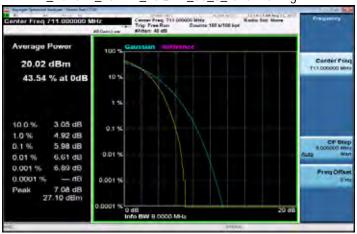
LTE_Band17_10MHz_16QAM_50_0_ Channel Mid



LTE_Band17_5MHz_16QAM_25_0_ Channel High



LTE_Band17_10MHz_16QAM_50_0_ Channel High



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

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