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9. OUT OF BAND EMISSION AT ANTENNA TERMINALS

9.1. Standard Applicable

FCC §22.917(a), §24.238(a), §27.53(g)(h), §90.691(a)(1)the magnitude of each spurious and harmonic emission that can be detected when the equipment is operated under the conditions specified in the instruction manual and/ or alignment procedure, shall not be less than 43 + 10 log (mean output power in watts) dBc below the mean power output outside a license's frequency block (-13dBm).

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

FCC §27.53(c) (2) (4)

- (c) For operations in the 746–758 MHz band and the 776–788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:
- (2) On any frequency outside the 776–788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB (-13dBm)
- (4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations;

Band Edge Measurement:

FCC §27.53(c) (5) & FCC §27.53(g)

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

FCC §27.53(h)

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

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FCC §27.53(m) (4) (6)

For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in § 27.53(m)(6). 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.

FCC §90.691(a)(2)

For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 116 Log10(f/6.1) decibels or 50 + 10 Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

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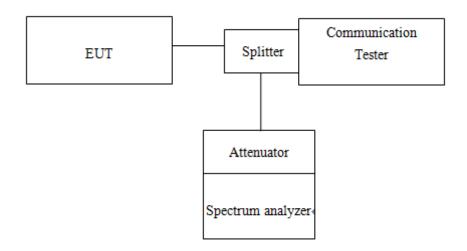
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9.2. Test SET-UP



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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9.4. Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.
TYPE		NUMBER	NUMBER	CAL.	
Spectrum Analyzer	Agilent	E4446A	MY51100003	01/29/2015	01/28/2016
Radio Communication Analyzer	R&S	CMU200	102189	02/11/2015	02/10/2016
Radio Communication Analyzer	Anritsu	MT8820C	6200995019	10/08/2014	10/09/2015
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2015	01/01/2016
Attenuator	Mini-Circuit	BW-S10W2+	002	01/02/2015	01/01/2016
Splitter	Agilent	11636B	N/A	01/02/2015	01/01/2016
DC Power Supply	Agilent	E3640A	MY52410006	11/10/2014	11/09/2015

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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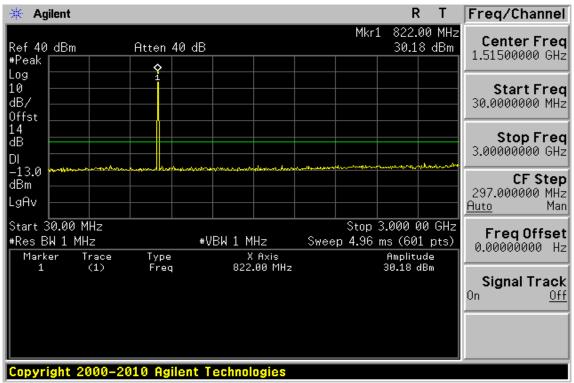
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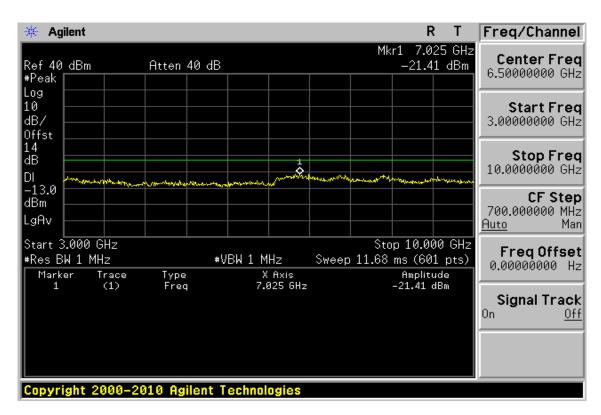


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Out of Band emission at antenna terminals - GPRS 850 Channel Lowest





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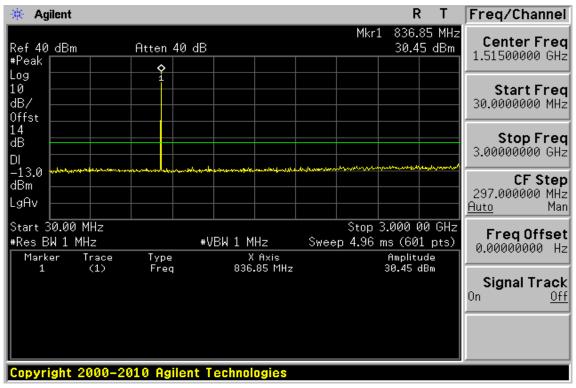
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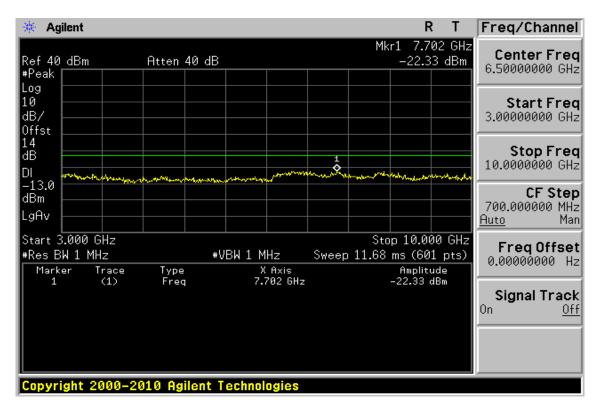


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Out of Band emission at antenna terminals – GPRS 850 Channel Mid





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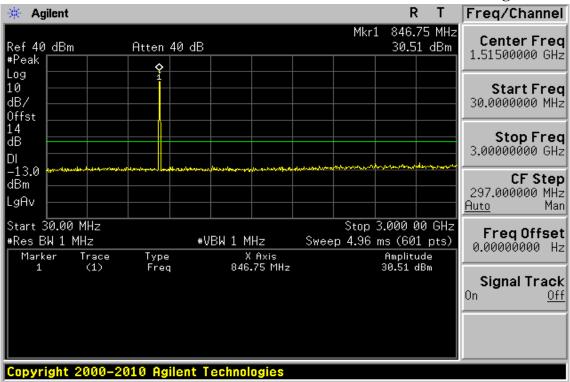
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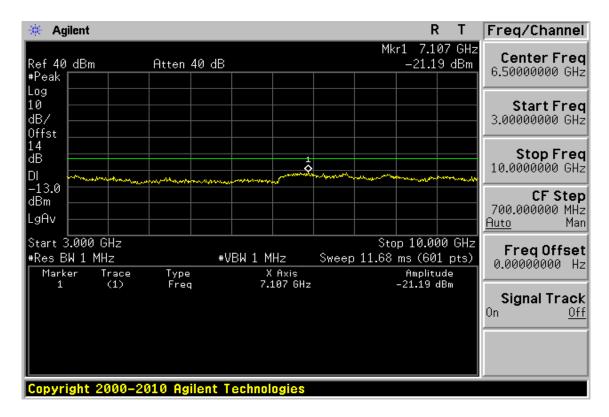


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Out of Band emission at antenna terminals – GPRS 850 Channel Highest





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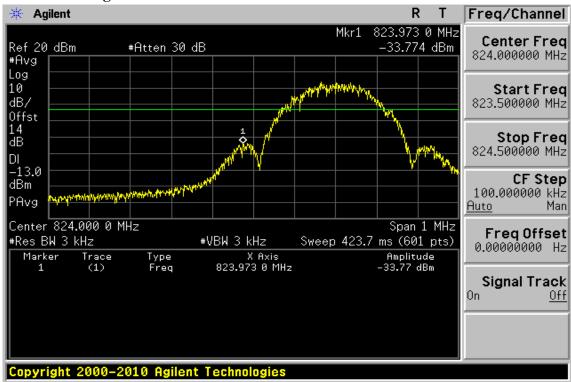
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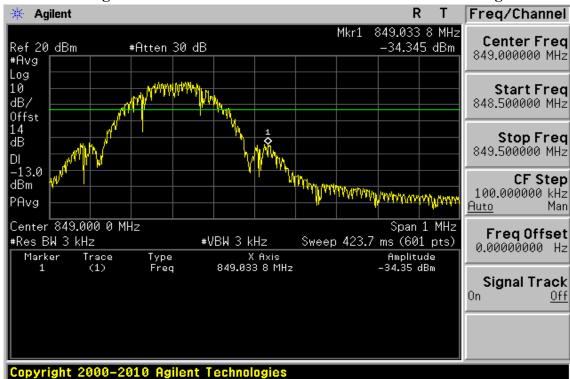
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Band edge emission at antenna terminals - GPRS 850 Channel Lowest



Band edge emission at antenna terminals - GPRS 850 Channel Highest



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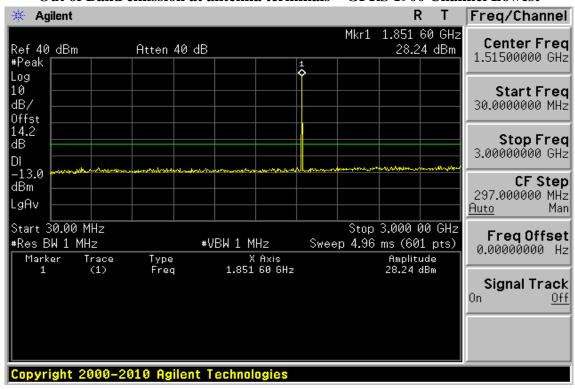
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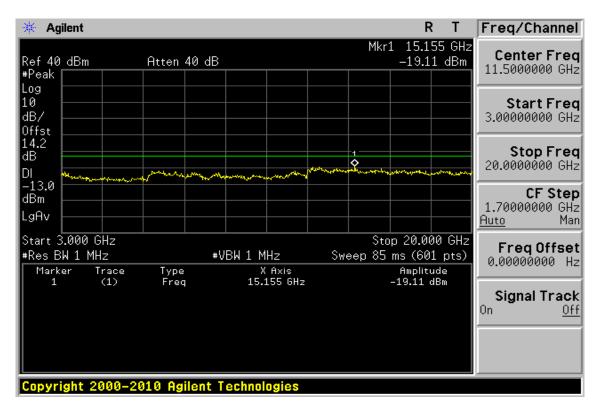


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Out of Band emission at antenna terminals - GPRS 1900 Channel Lowest





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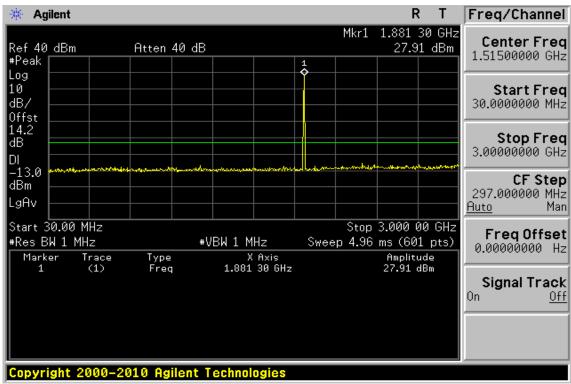
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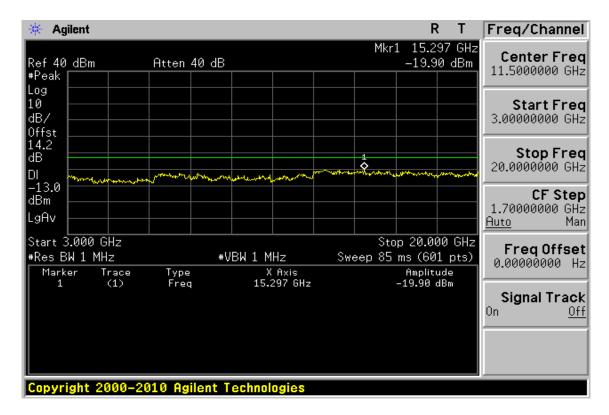


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Out of Band emission at antenna terminals – GPRS 1900 Channel Mid





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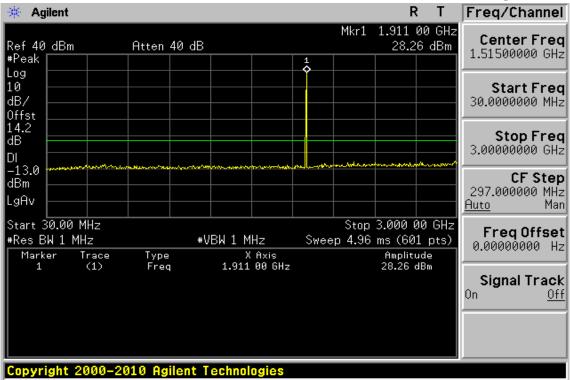
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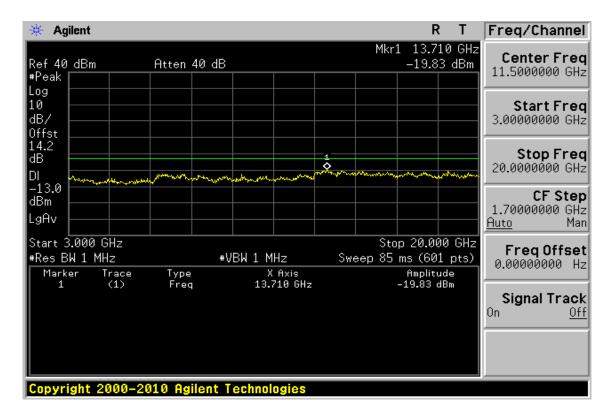


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Out of Band emission at antenna terminals – GPRS 1900 Channel Highest





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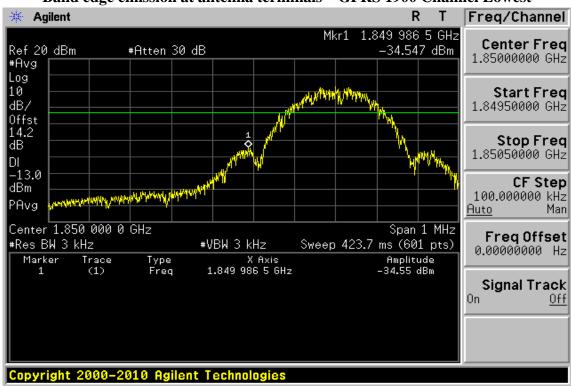
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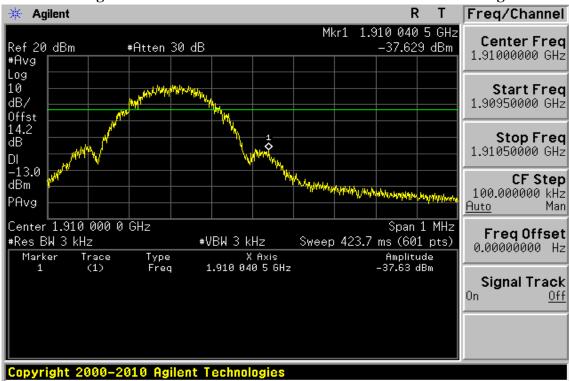
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Band edge emission at antenna terminals - GPRS 1900 Channel Lowest



Band edge emission at antenna terminals - GPRS 1900 Channel Highest



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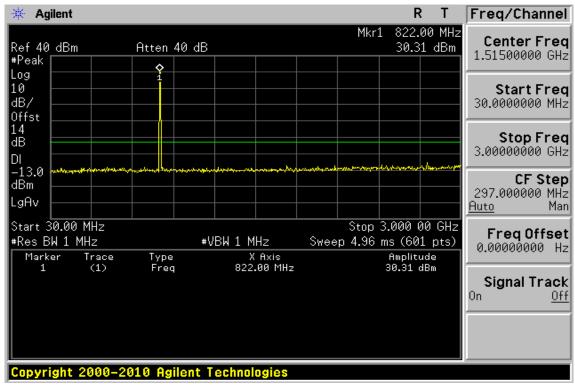
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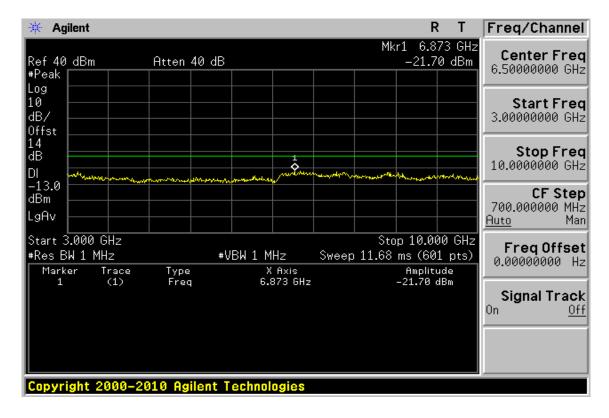


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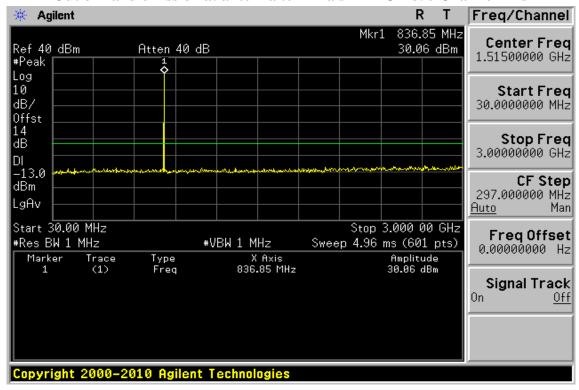
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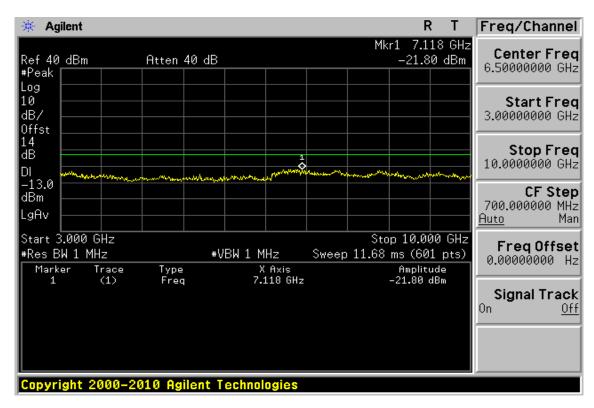


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Out of Band emission at antenna terminals – EDGE 850 Channel Mid





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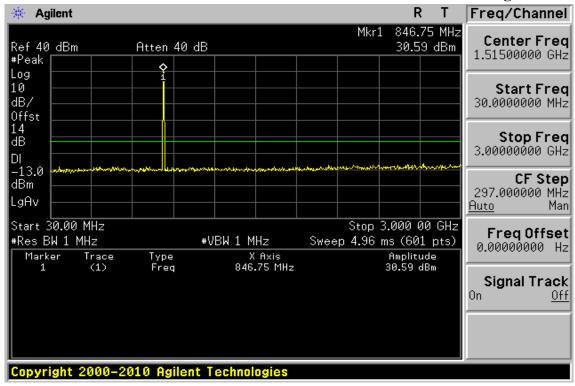
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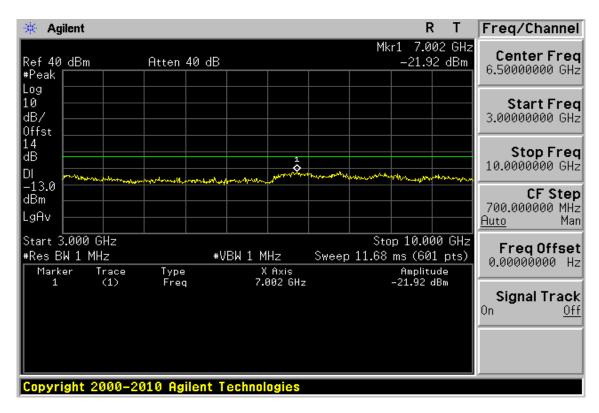


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Out of Band emission at antenna terminals – EDGE 850 Channel Highest





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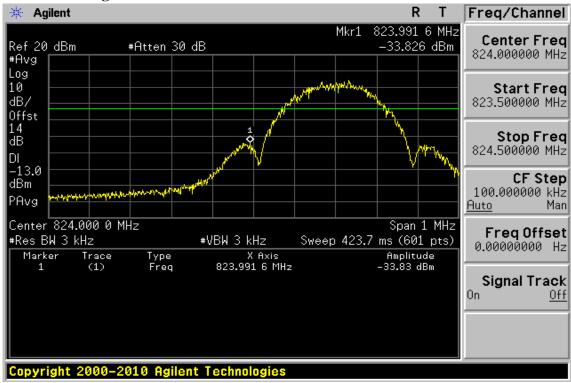
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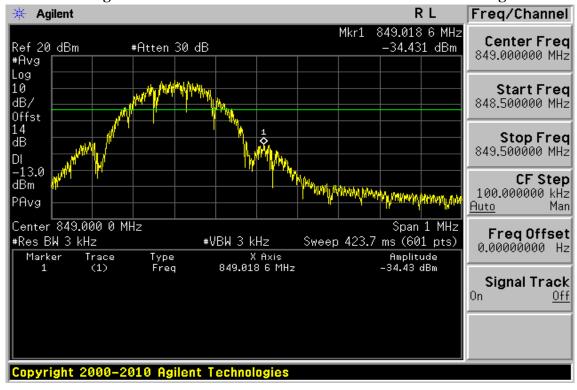
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Band edge emission at antenna terminals – EDGE 850 Channel Lowest



Band edge emission at antenna terminals – EDGE 850 Channel Highest



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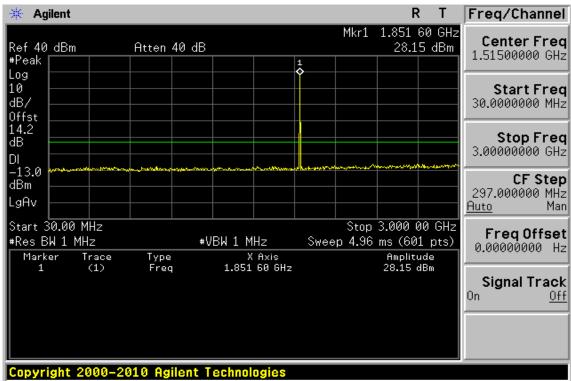
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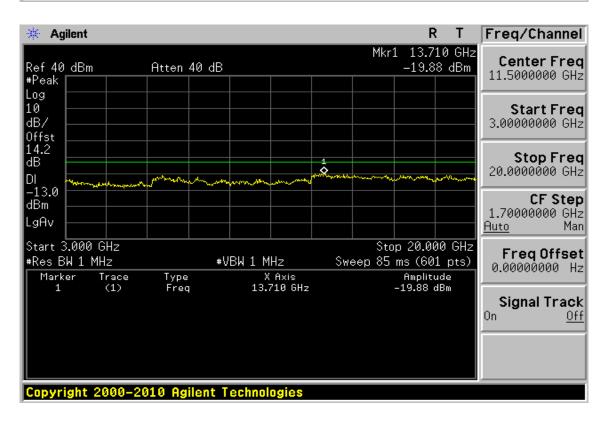


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Out of Band emission at antenna terminals - EDGE 1900 Channel Lowest





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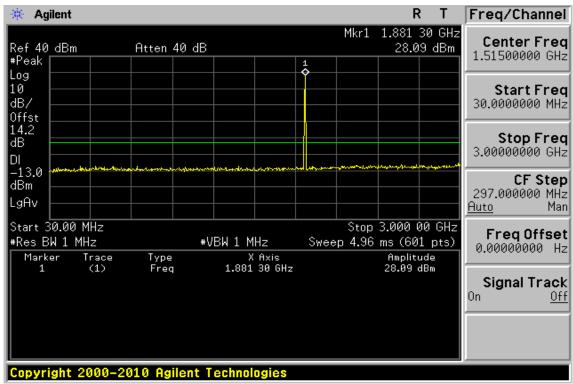
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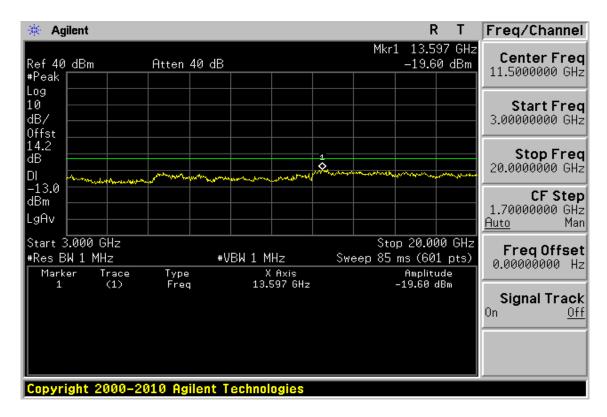


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Out of Band emission at antenna terminals – EDGE 1900 Channel Mid





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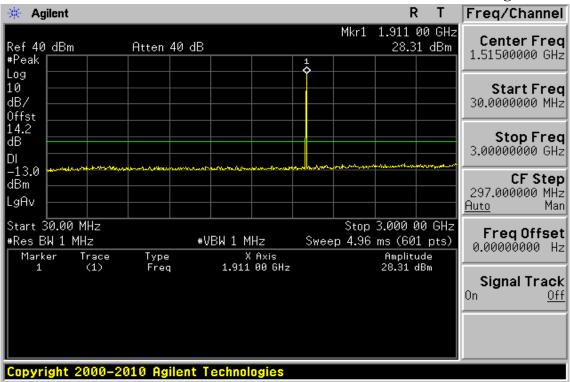
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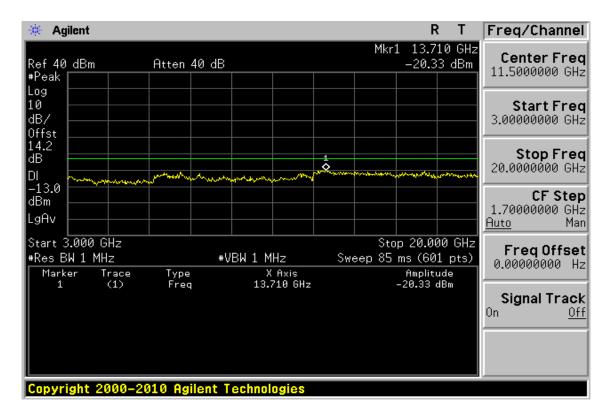


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Out of Band emission at antenna terminals – EDGE 1900 Channel Highest





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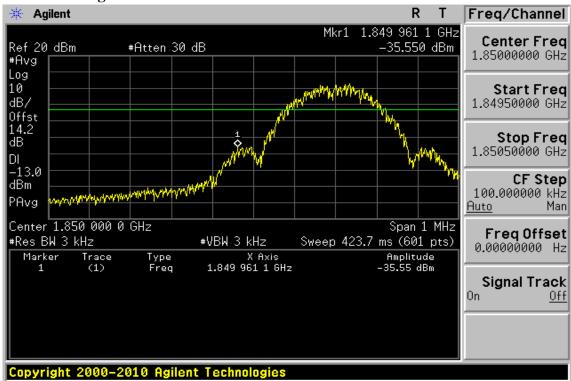
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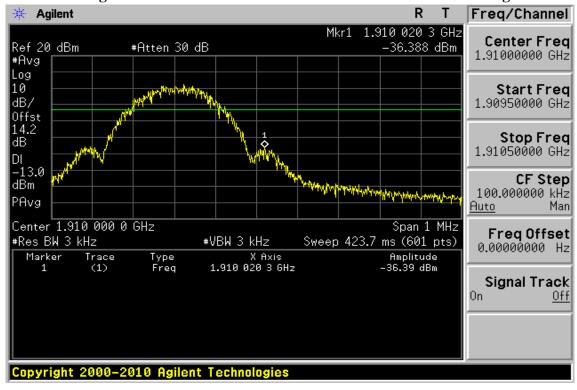
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Band edge emission at antenna terminals - EDGE 1900 Channel Lowest



Band edge emission at antenna terminals - EDGE 1900 Channel Highest



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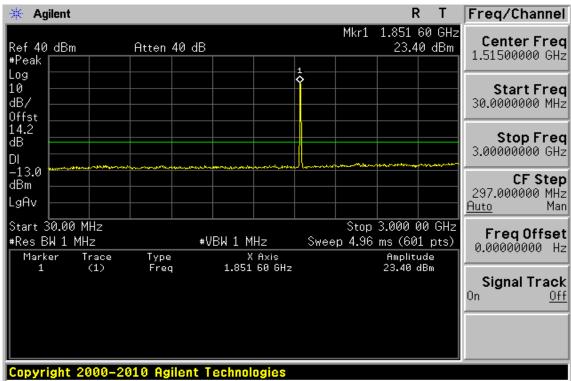
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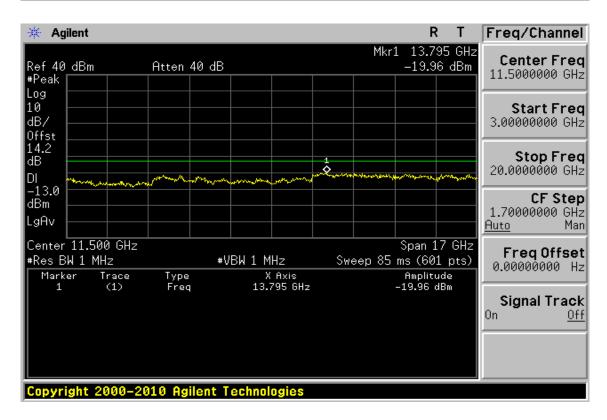


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Out of Band emission at antenna terminals - WCDMA II Channel Lowest





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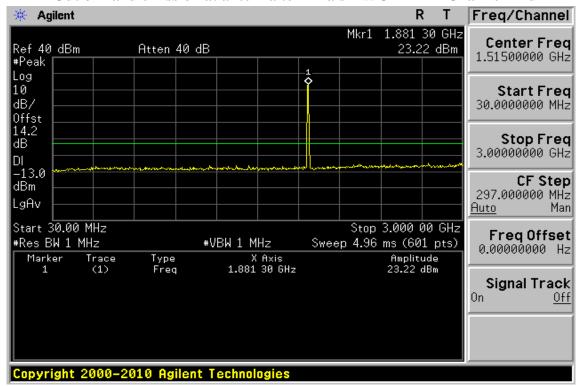
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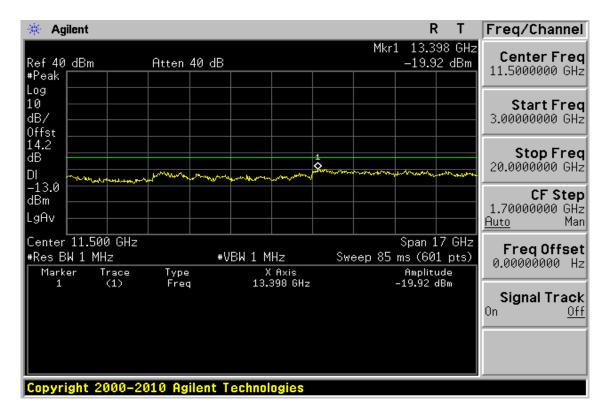


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Out of Band emission at antenna terminals – WCDMA II Channel Mid





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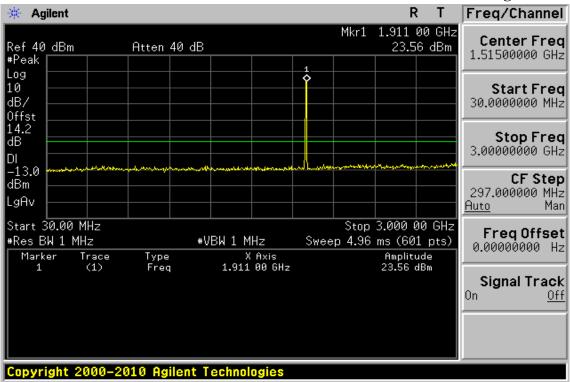
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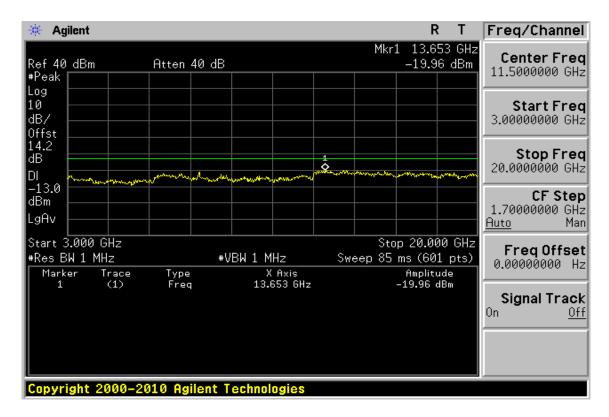


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Out of Band emission at antenna terminals – WCDMA II Channel Highest





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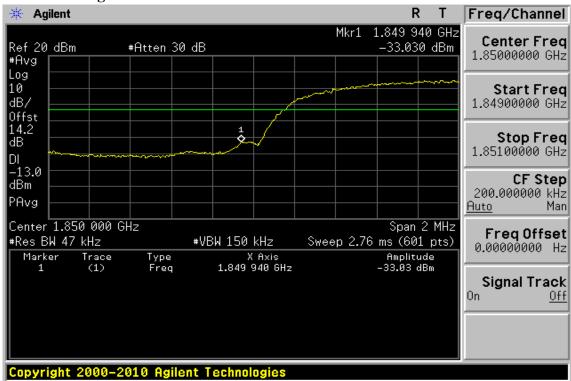
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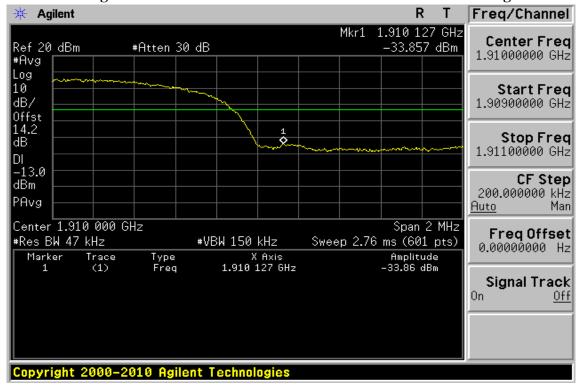
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Band edge emission at antenna terminals - WCDMA II Channel Lowest



Band edge emission at antenna terminals - WCDMA II Channel Highest



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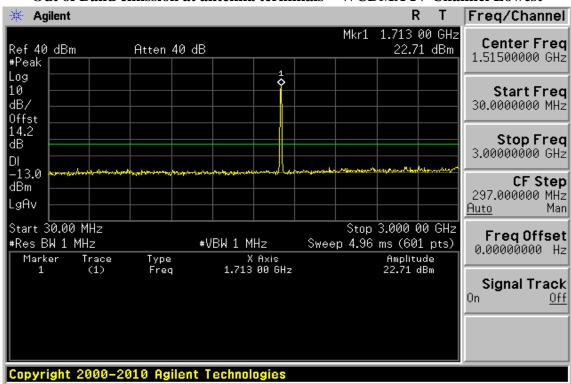
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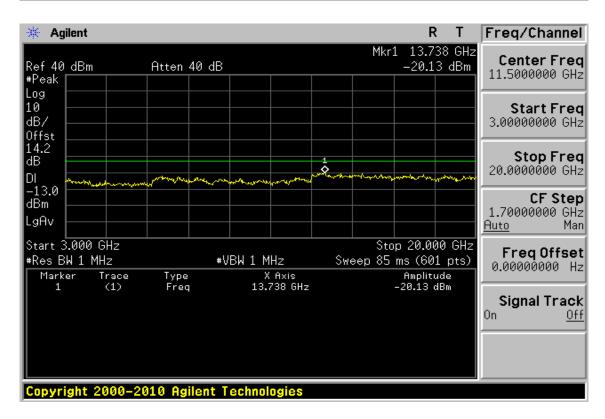


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Out of Band emission at antenna terminals – WCDMA IV Channel Lowest





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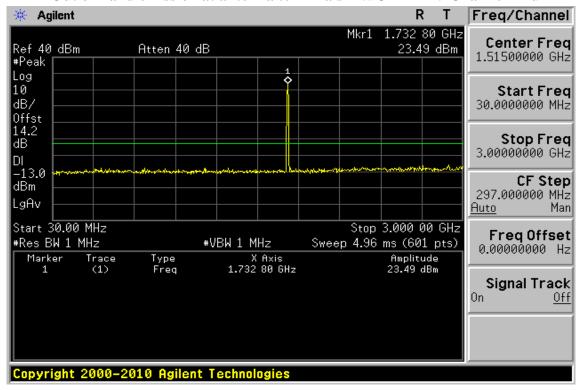
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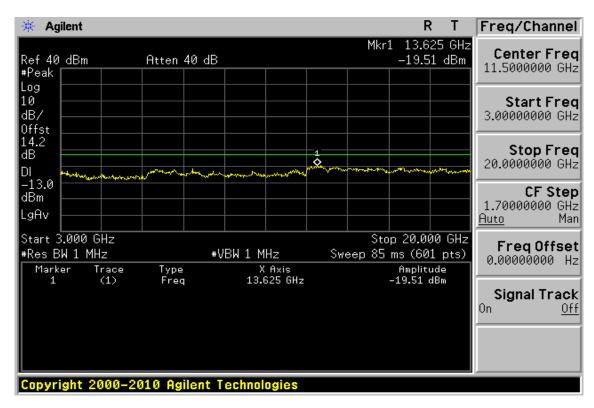


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Out of Band emission at antenna terminals – WCDMA IV Channel Mid





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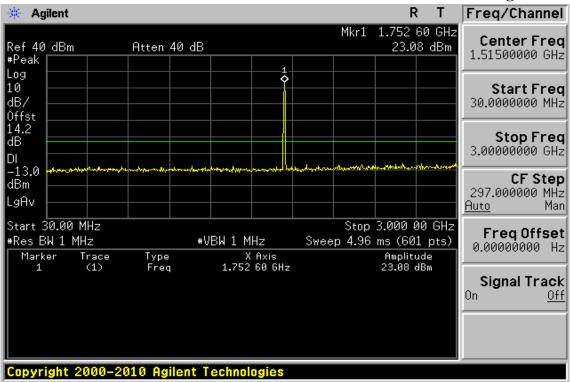
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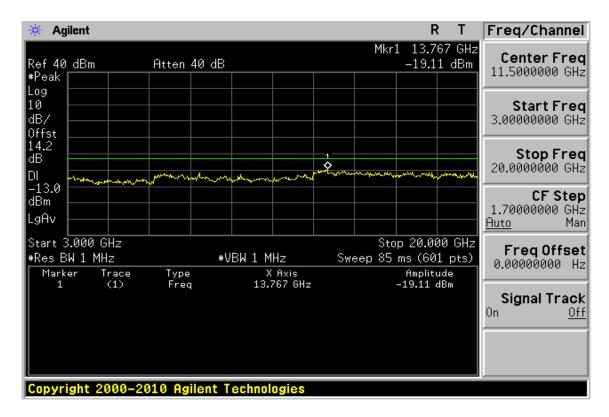


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Out of Band emission at antenna terminals – WCDMA IV Channel Highest





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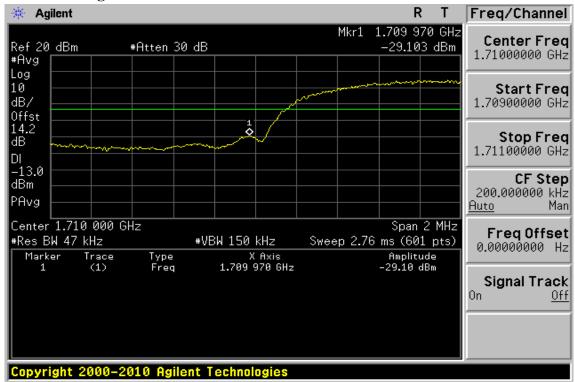
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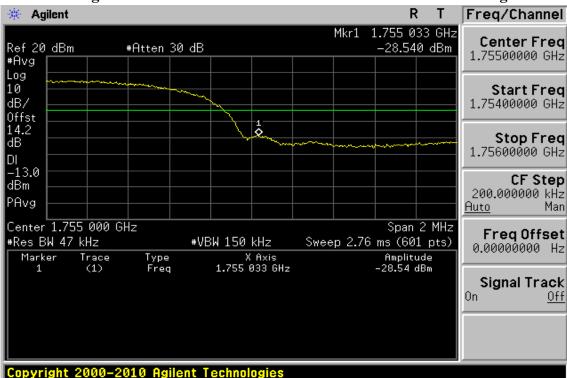
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Band edge emission at antenna terminals – WCDMA IV Channel Lowest



Band edge emission at antenna terminals - WCDMA IV Channel Highest



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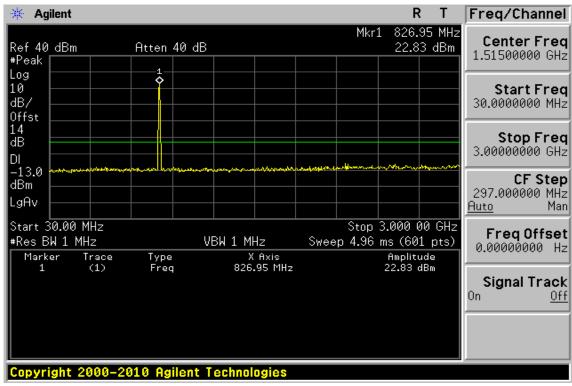
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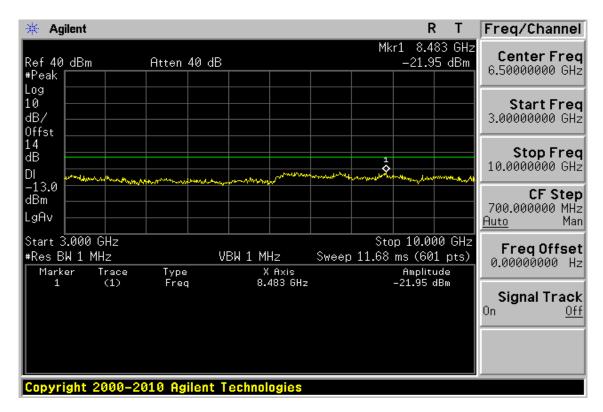


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Out of Band emission at antenna terminals - WCDMA V Channel Lowest





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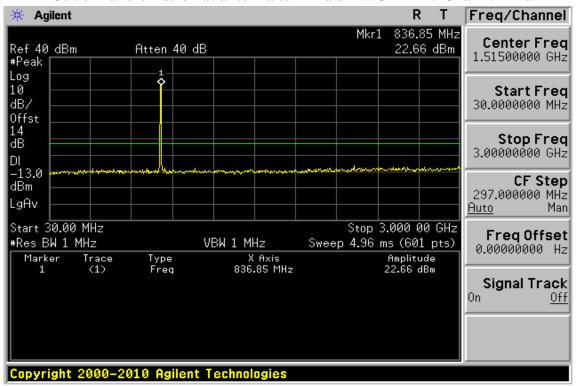
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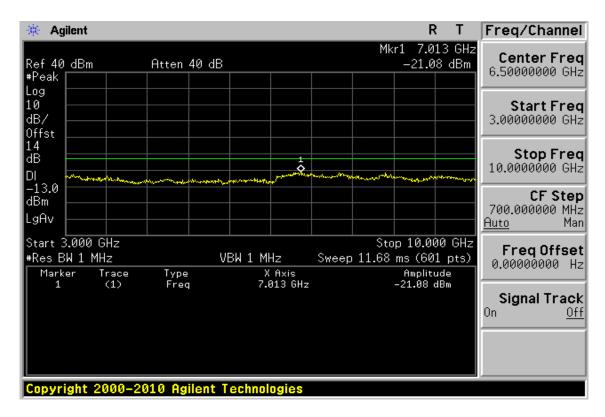


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Out of Band emission at antenna terminals – WCDMA V Channel Mid





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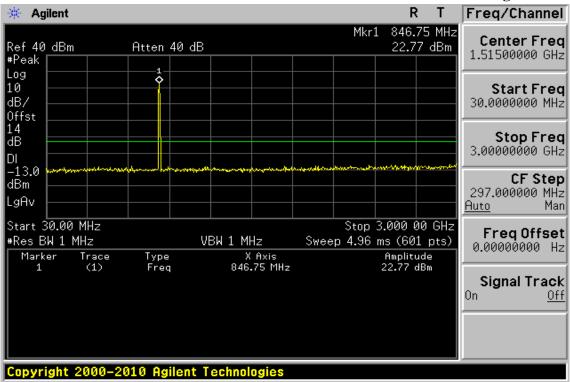
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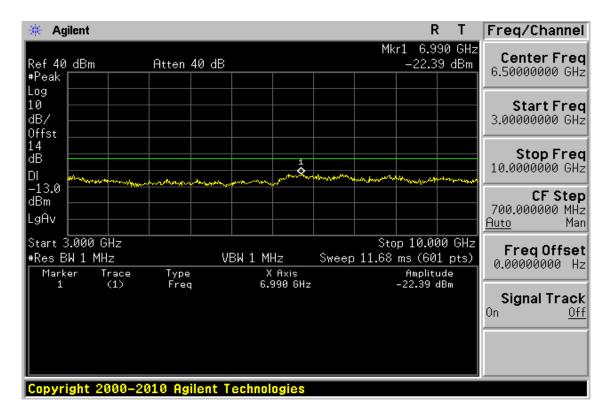


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Out of Band emission at antenna terminals – WCDMA V Channel Highest





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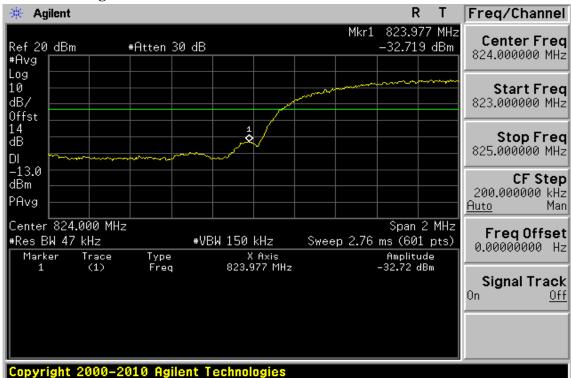
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Band edge emission at antenna terminals – WCDMA V Channel Lowest



Band edge emission at antenna terminals - WCDMA V Channel Highest



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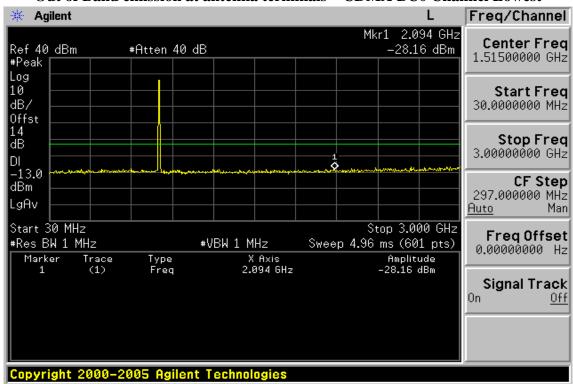
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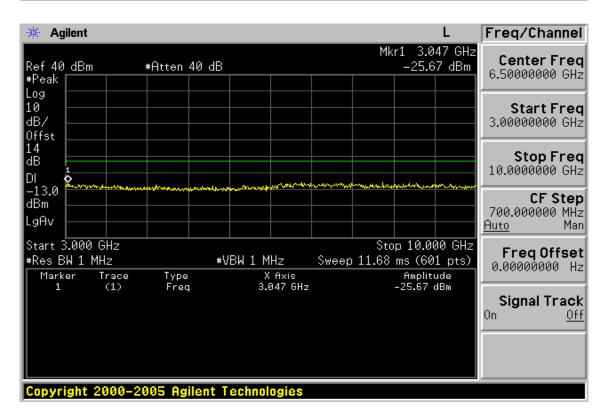


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Out of Band emission at antenna terminals - CDMA BC0 Channel Lowest





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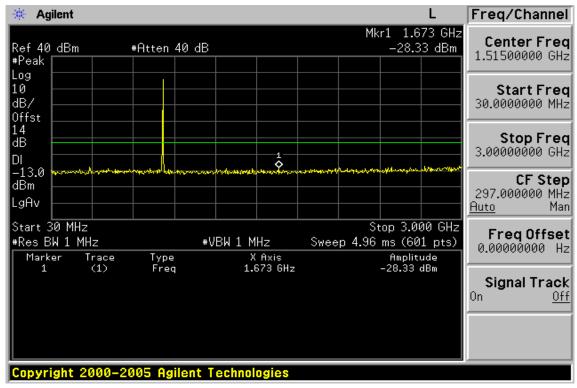
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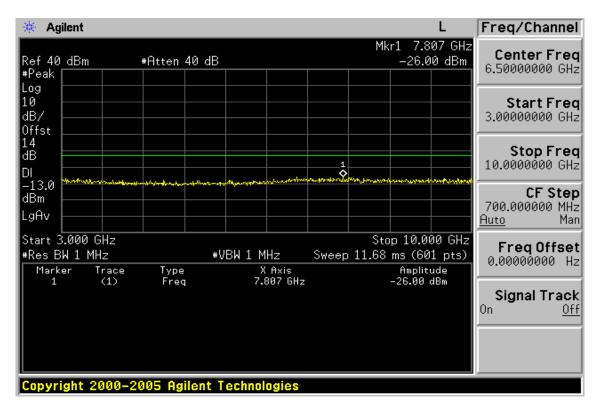


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Out of Band emission at antenna terminals – CDMA BC0 Channel Mid





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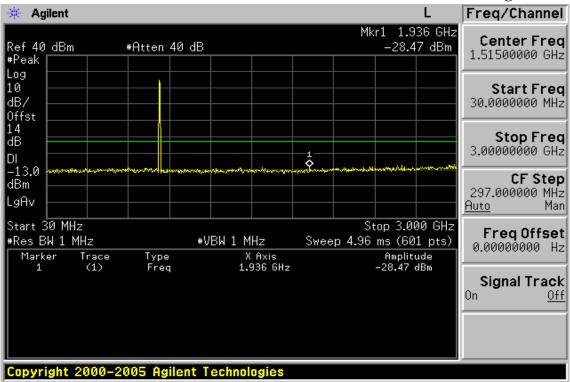
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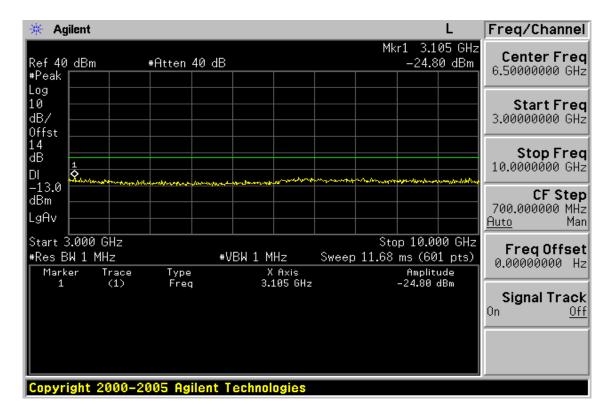


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Out of Band emission at antenna terminals – CDMA BC0 Channel Highest





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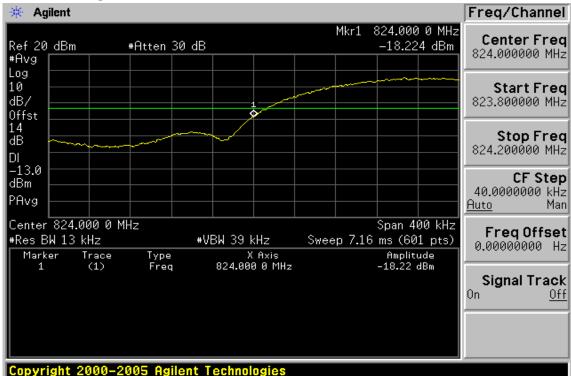
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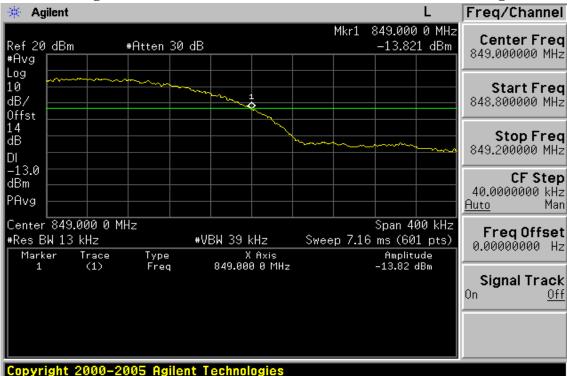
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Band edge emission at antenna terminals - CDMA BC0 Channel Lowest



Band edge emission at antenna terminals - CDMA BC0 Channel Highest



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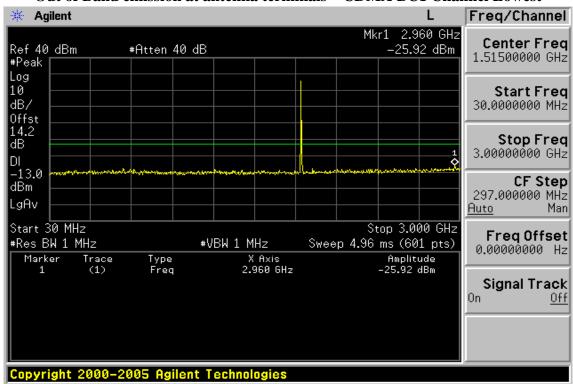
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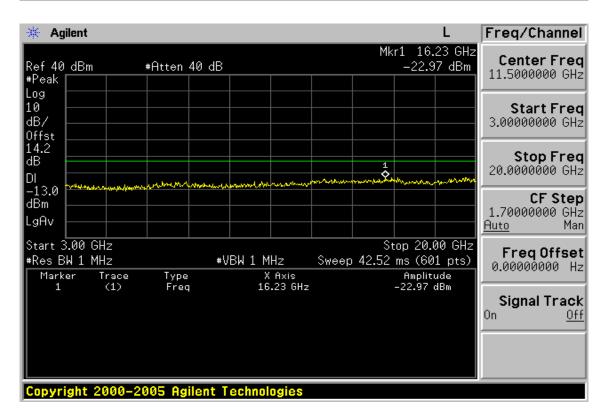


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Out of Band emission at antenna terminals - CDMA BC1 Channel Lowest





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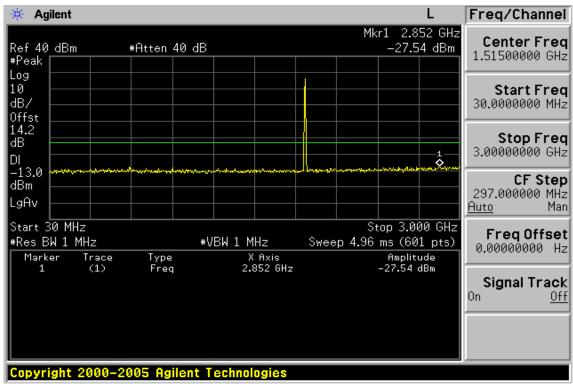
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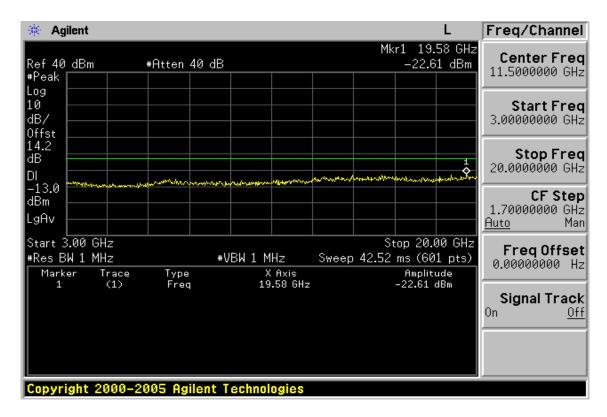


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Out of Band emission at antenna terminals – CDMA BC1 Channel Mid





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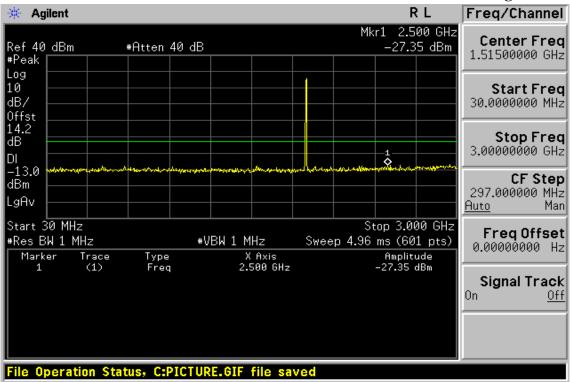
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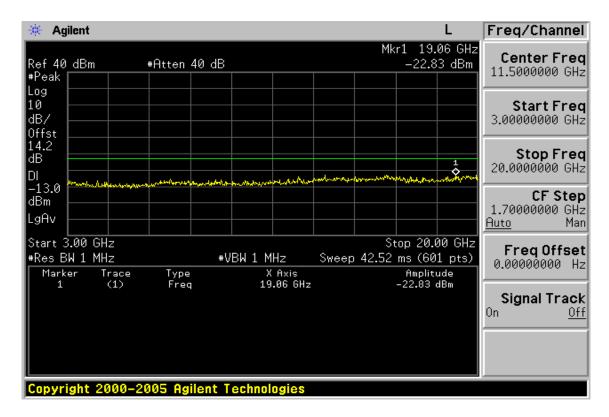


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Out of Band emission at antenna terminals – CDMA BC1 Channel Highest





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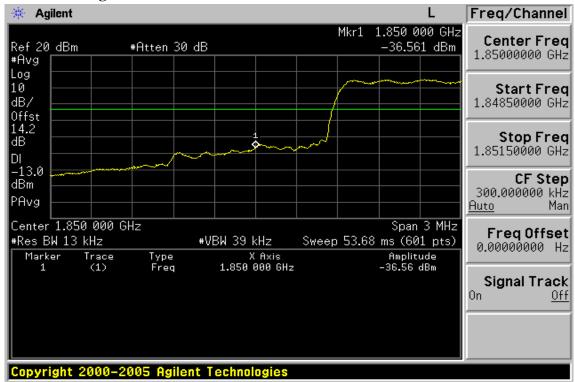
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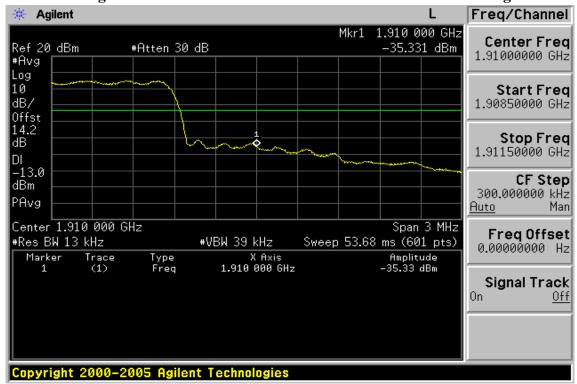
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Band edge emission at antenna terminals - CDMA BC1 Channel Lowest



Band edge emission at antenna terminals - CDMA BC1 Channel Highest



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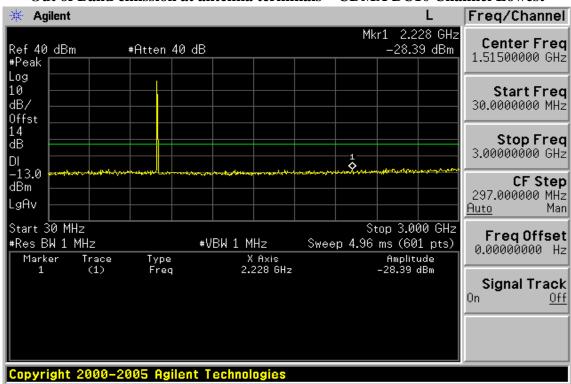
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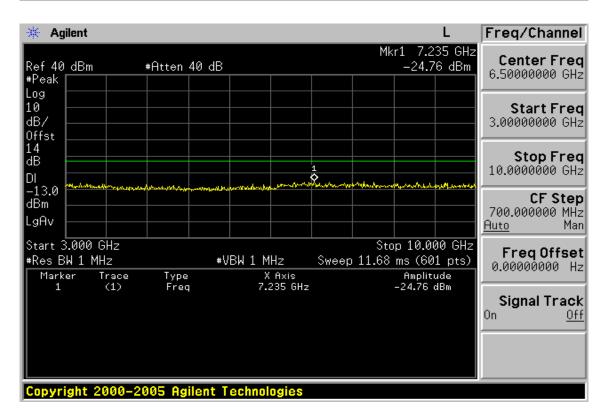


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Out of Band emission at antenna terminals - CDMA BC10 Channel Lowest





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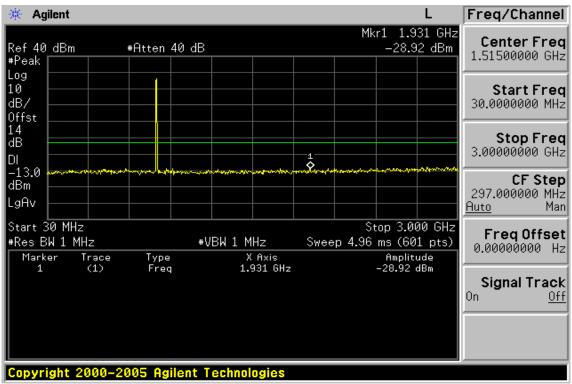
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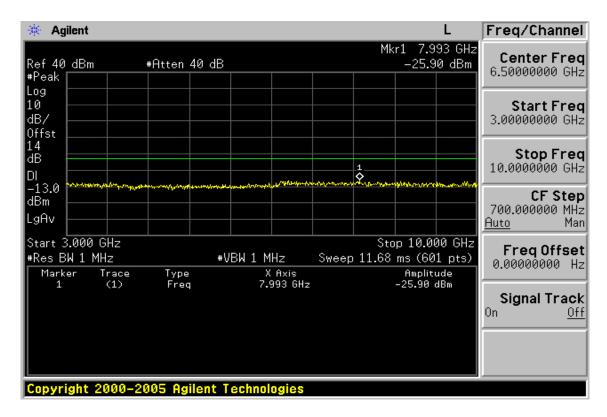


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Out of Band emission at antenna terminals – CDMA BC10 Channel Mid





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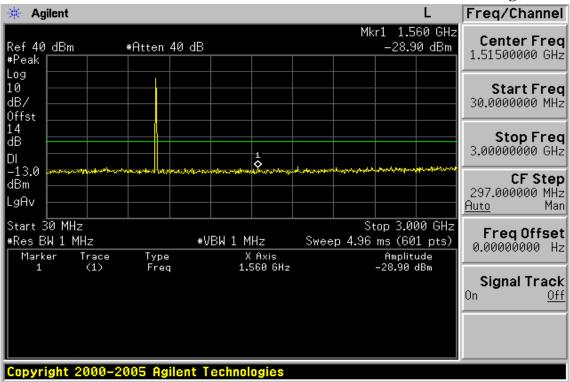
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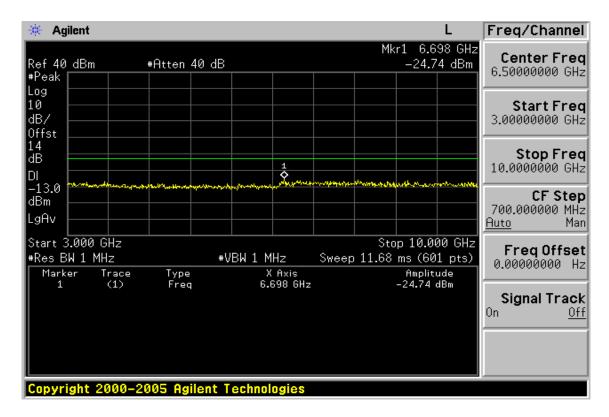


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Out of Band emission at antenna terminals – CDMA BC10 Channel Highest





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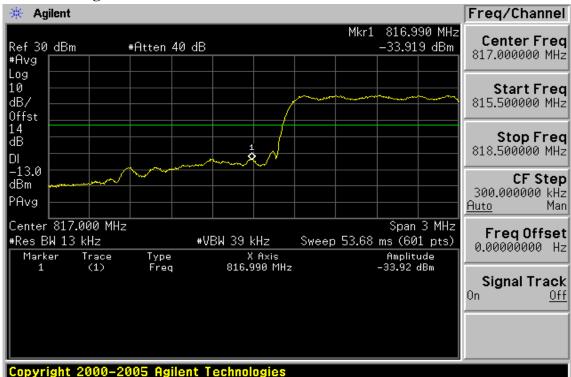
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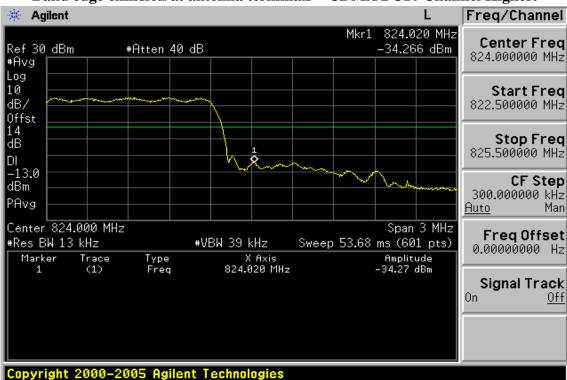
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Band edge emission at antenna terminals – CDMA BC10 Channel Lowest



Band edge emission at antenna terminals - CDMA BC10 Channel Highest



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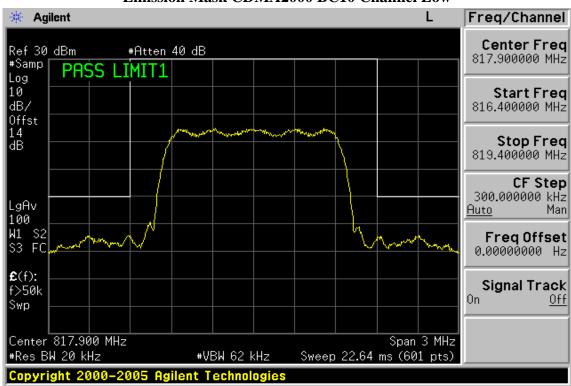
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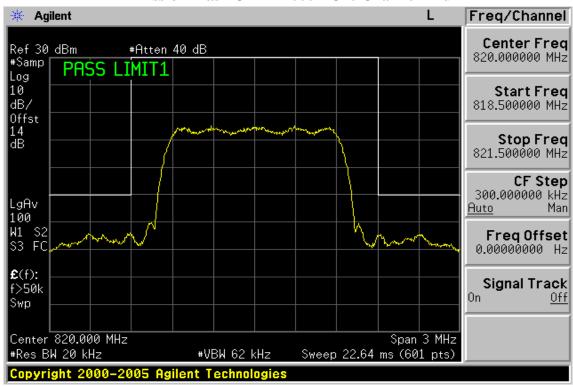
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Emission Mask CDMA2000 BC10 Channel Low



Emission Mask CDMA2000 BC10 Channel Mid



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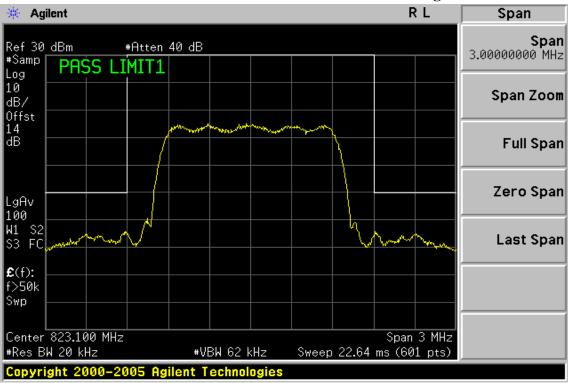
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Emission Mask CDMA2000 BC10 Channel High



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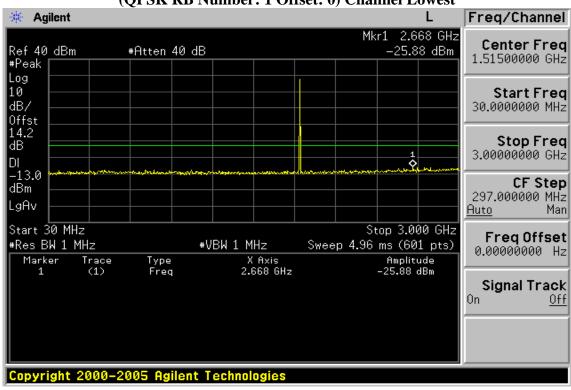
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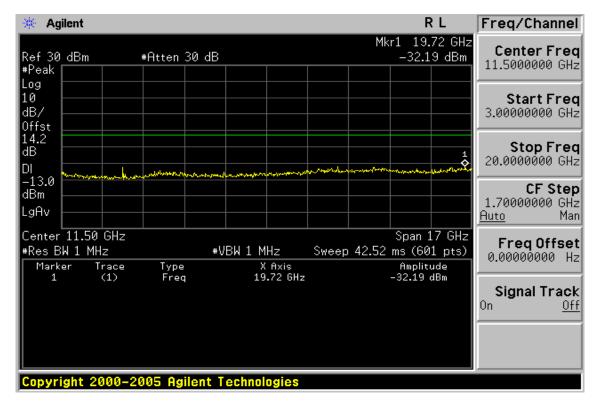


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Out of Band emission at antenna terminals—1.4MHz BW LTE-Band 2 (OPSK RB Number: 1 Offset: 0) Channel Lowest





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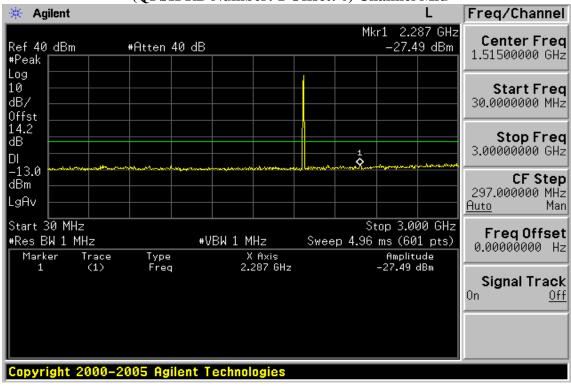
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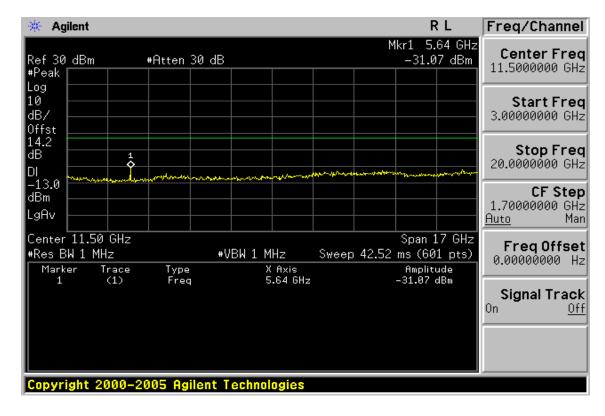


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Out of Band emission at antenna terminals—1.4MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Mid





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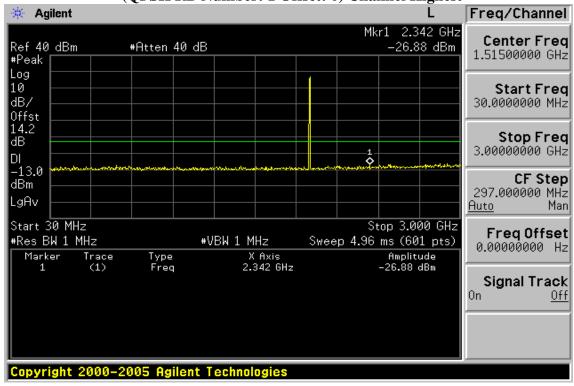
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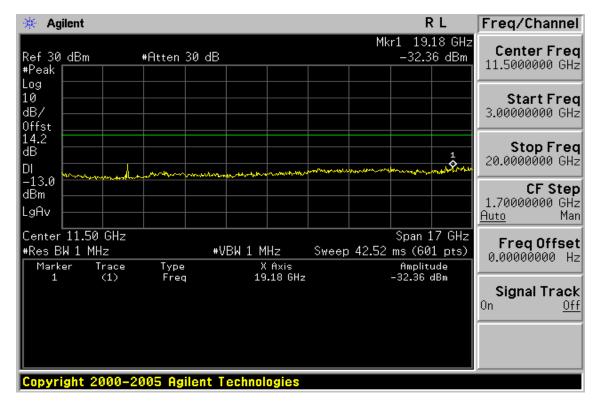


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Out of Band emission at antenna terminals—1.4MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Highest





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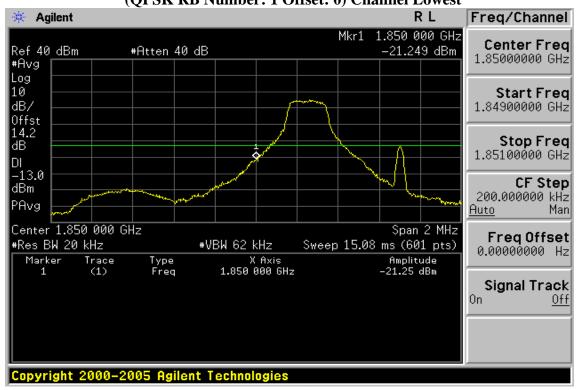
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Band edge emission at antenna terminals –1.4MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Lowest



Band edge emission at antenna terminals –1.4MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 5) Channel Highest



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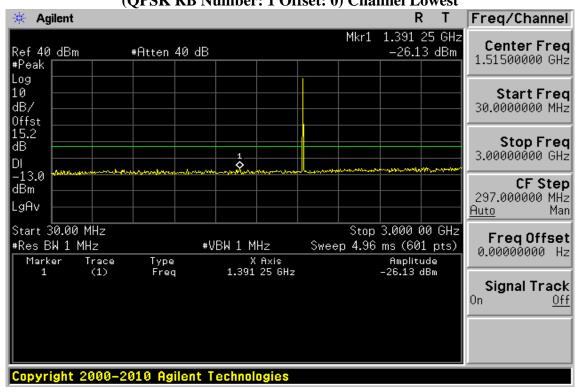
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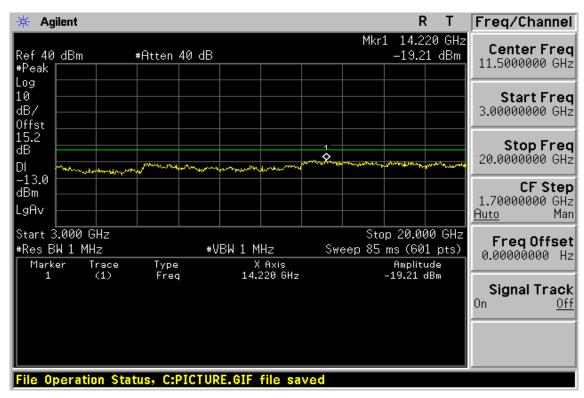


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Out of Band emission at antenna terminals–3MHz BW LTE-Band 2 (OPSK RB Number: 1 Offset: 0) Channel Lowest





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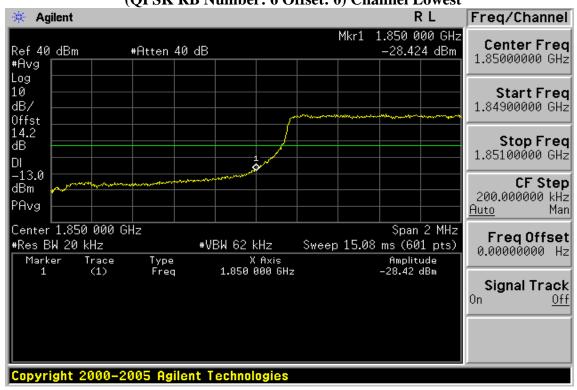
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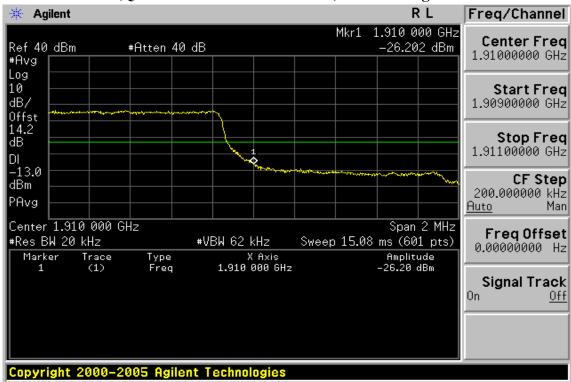
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Band edge emission at antenna terminals –1.4MHz BW LTE-Band 2 (QPSK RB Number: 6 Offset: 0) Channel Lowest



Band edge emission at antenna terminals –1.4MHz BW LTE-Band 2 (QPSK RB Number: 6 Offset: 0) Channel Highest



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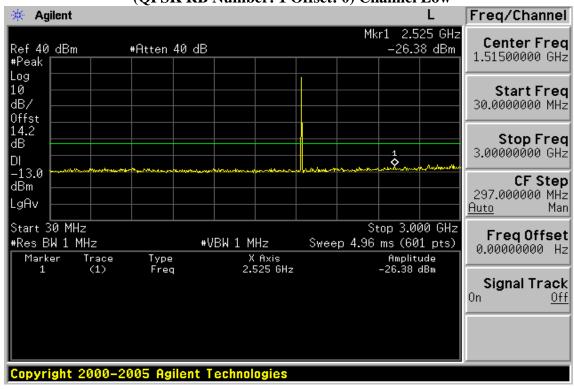
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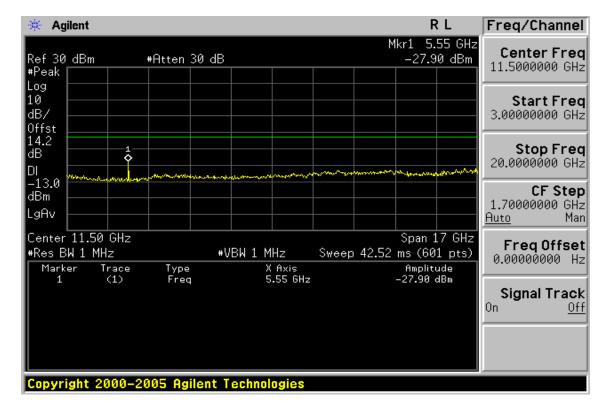


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Out of Band emission at antenna terminals –3MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Low





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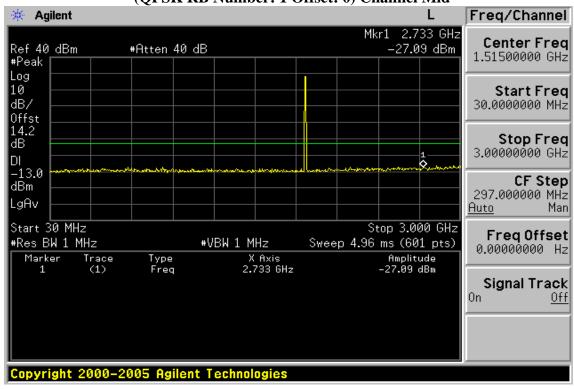
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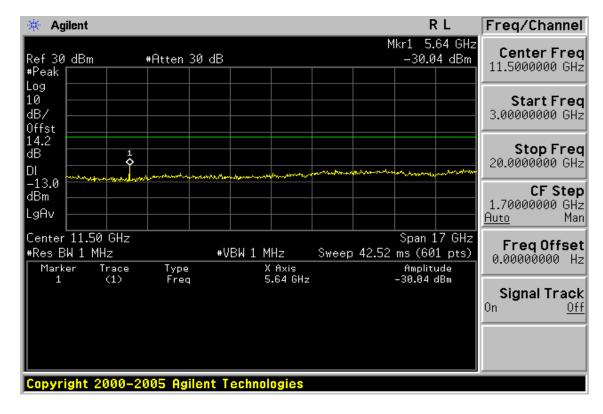


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Out of Band emission at antenna terminals –3MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Mid





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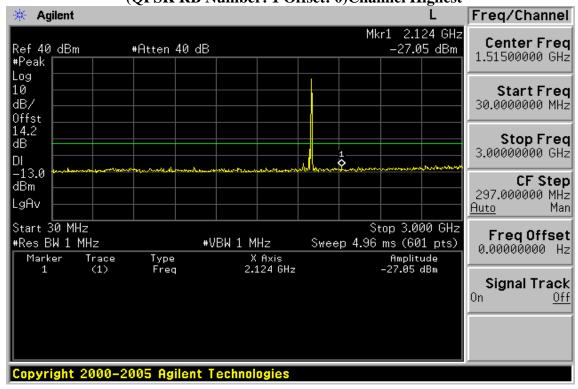
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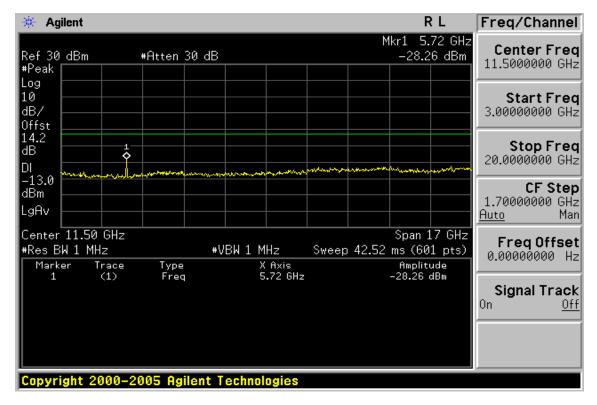


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Out of Band emission at antenna terminals-3MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Highest





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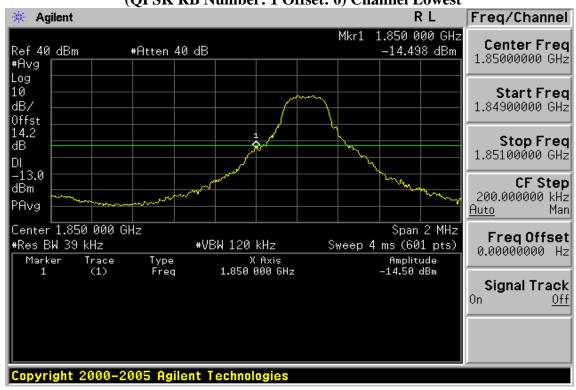
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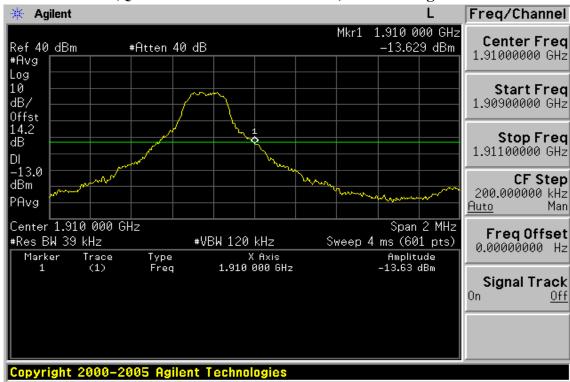
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Band edge emission at antenna terminals –3MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Lowest



Band edge emission at antenna terminals –3MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 14) Channel Highest



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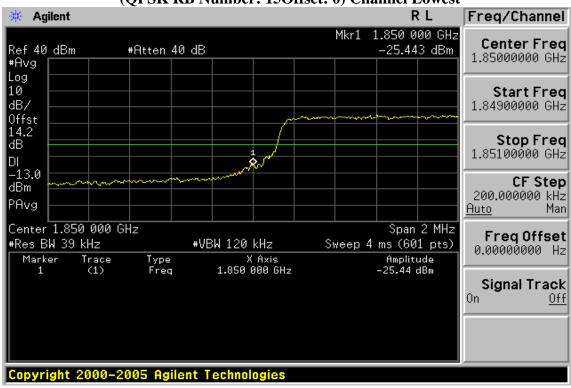
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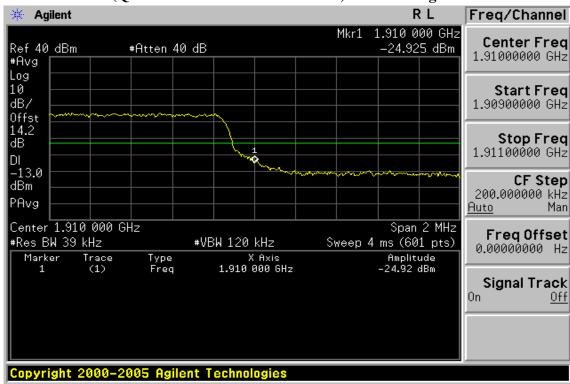
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Band edge emission at antenna terminals –3MHz BW LTE-Band 2 (QPSK RB Number: 15Offset: 0) Channel Lowest



Band edge emission at antenna terminals –3MHz BW LTE-Band 2 (QPSK RB Number: 15Offset: 14) Channel Highest



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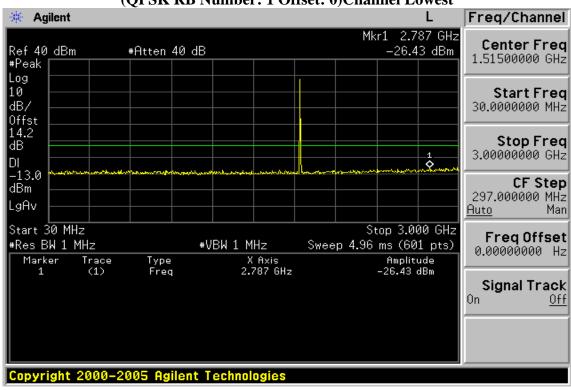
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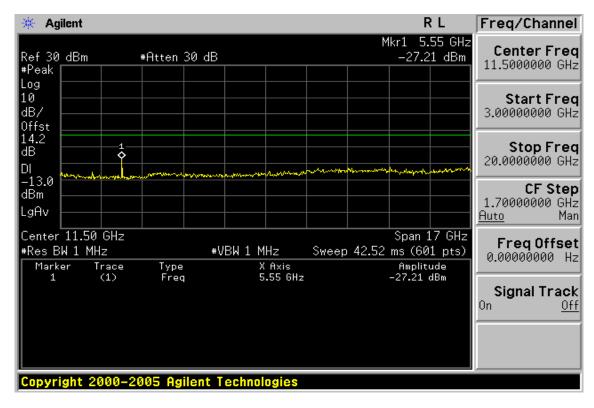


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Out of Band emission at antenna terminals-5MHz BW LTE-Band 2 (OPSK RB Number: 1 Offset: 0) Channel Lowest





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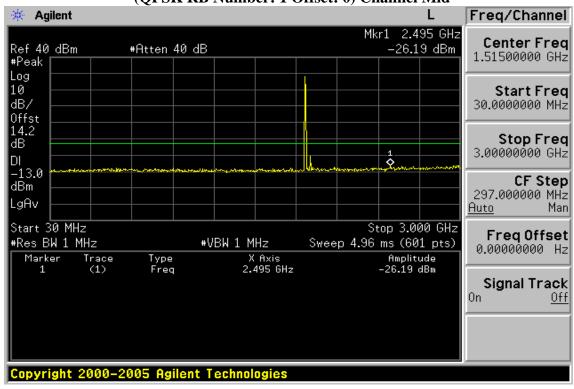
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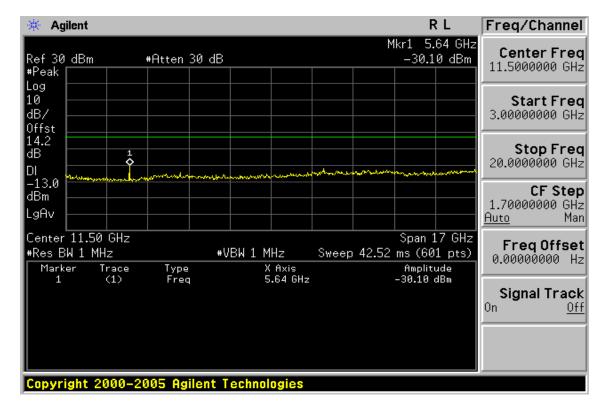


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Out of Band emission at antenna terminals –5MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Mid





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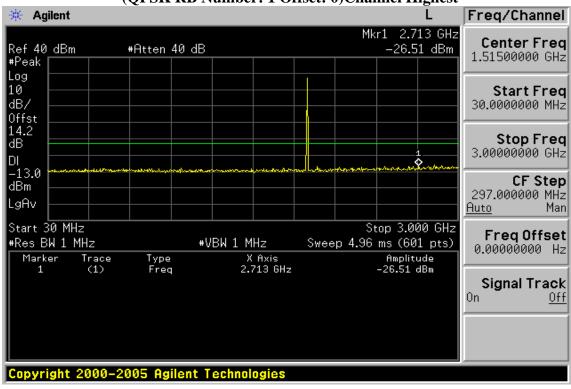
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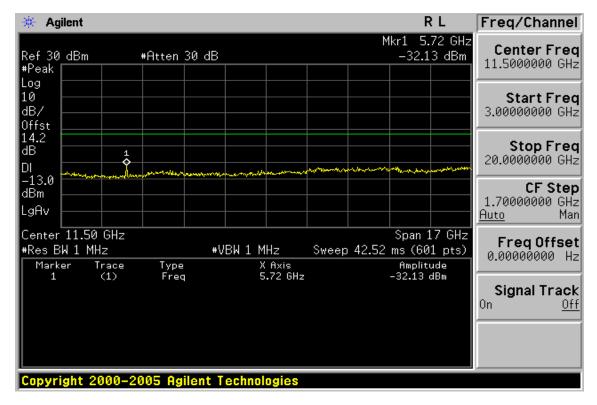


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Out of Band emission at antenna terminals-5MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Highest





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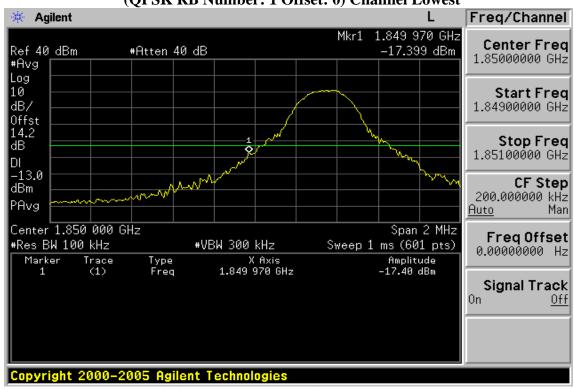
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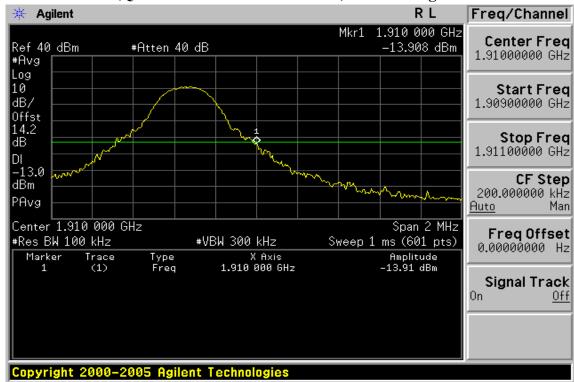
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Band edge emission at antenna terminals –5MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Lowest



Band edge emission at antenna terminals –5MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 24) Channel Highest



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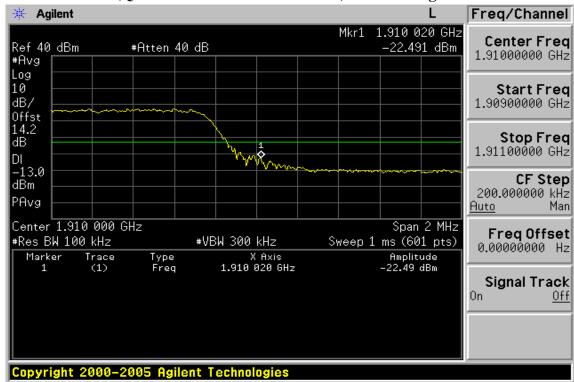
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Band edge emission at antenna terminals –5MHz BW LTE-Band 2 (QPSK RB Number: 25 Offset: 0) Channel Lowest



Band edge emission at antenna terminals –5MHz BW LTE-Band 2 (QPSK RB Number: 25 Offset: 0) Channel Highest



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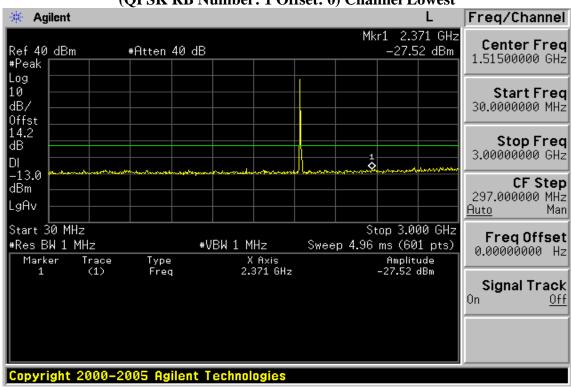
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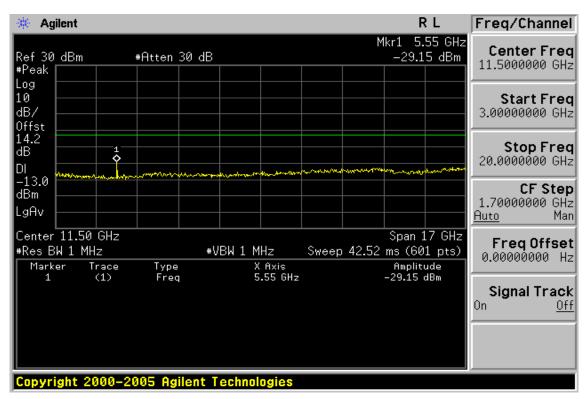


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Out of Band emission at antenna terminals-10MHz BW LTE-Band 2 (OPSK RB Number: 1 Offset: 0) Channel Lowest





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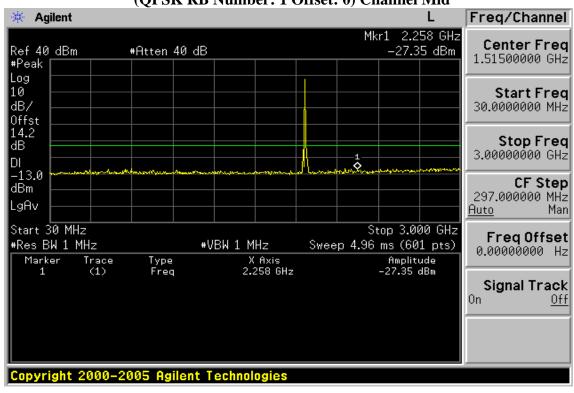
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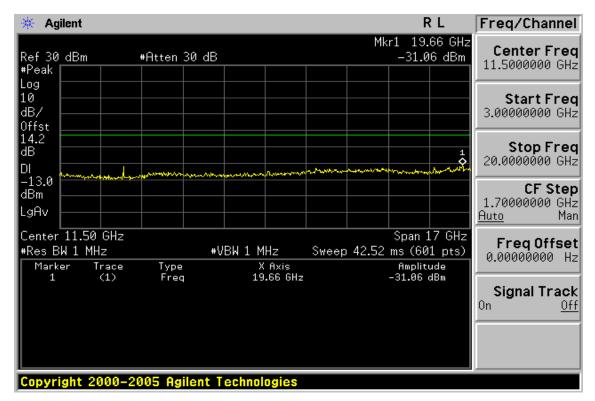


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Out of Band emission at antenna terminals –10MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Mid





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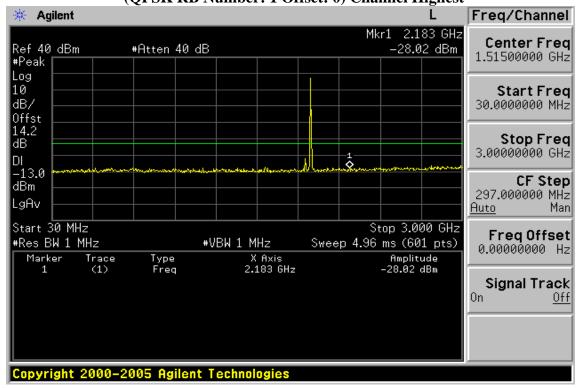
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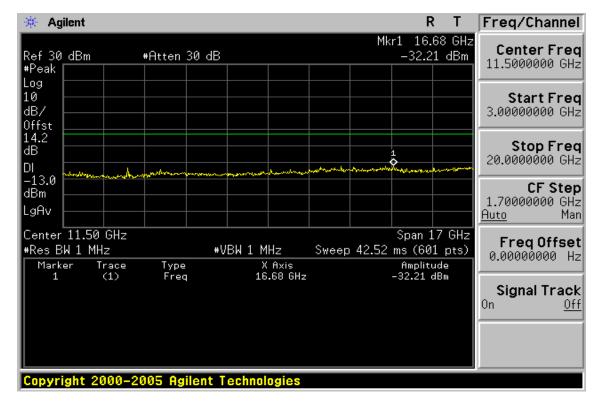


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Out of Band emission at antenna terminals-10MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Highest





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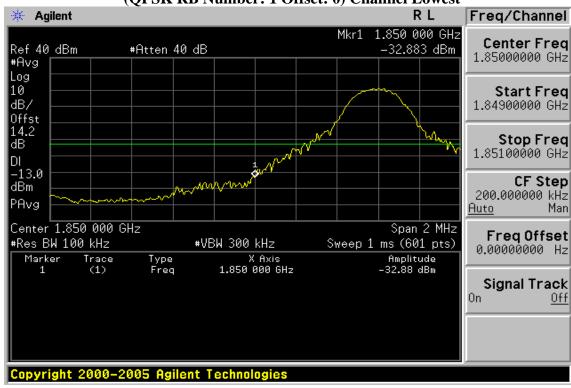
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Band edge emission at antenna terminals -10MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Lowest



Band edge emission at antenna terminals -10MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 49) Channel Highest



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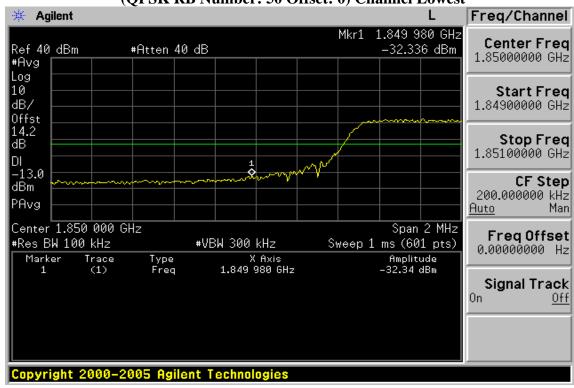
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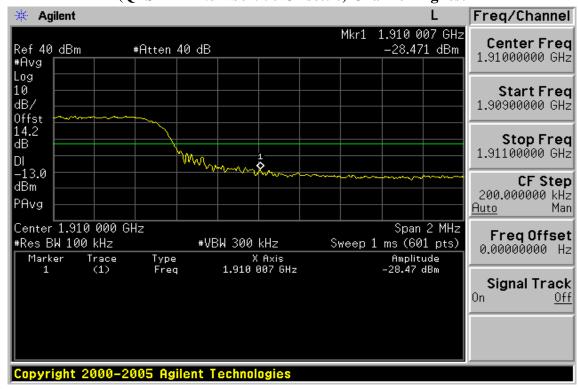
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Band edge emission at antenna terminals -10MHz BW LTE-Band 2 (QPSK RB Number: 50 Offset: 0) Channel Lowest



Band edge emission at antenna terminals -10MHz BW LTE-Band 2 (QPSK RB Number: 50 Offset: 0) Channel Highest



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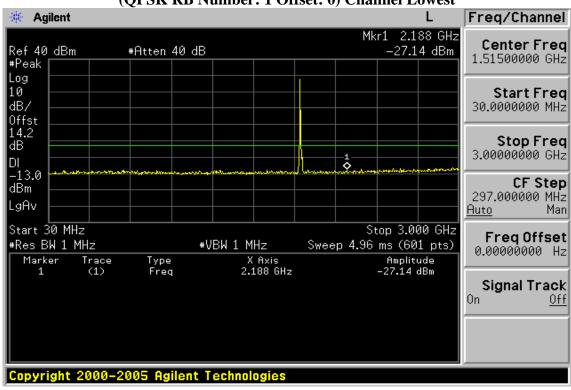
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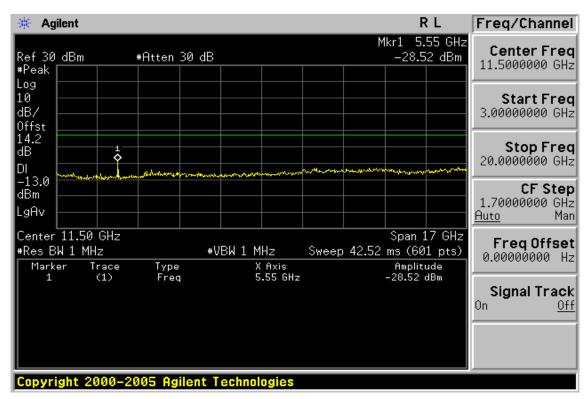


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Out of Band emission at antenna terminals-15MHz BW LTE-Band 2 (OPSK RB Number: 1 Offset: 0) Channel Lowest





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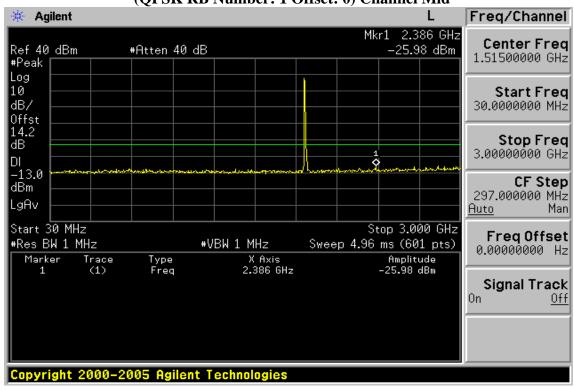
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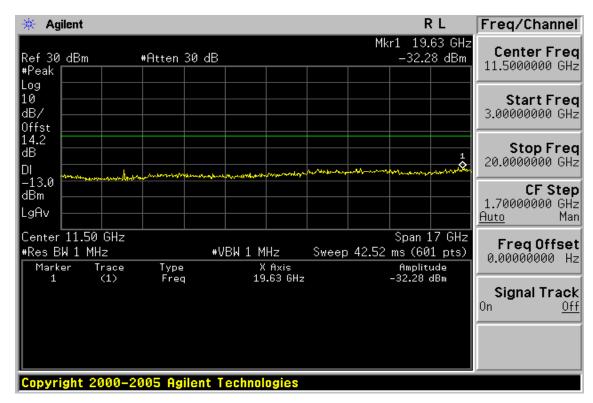


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Out of Band emission at antenna terminals –15MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Mid





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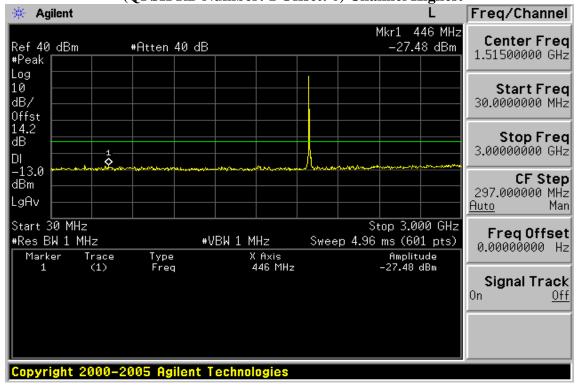
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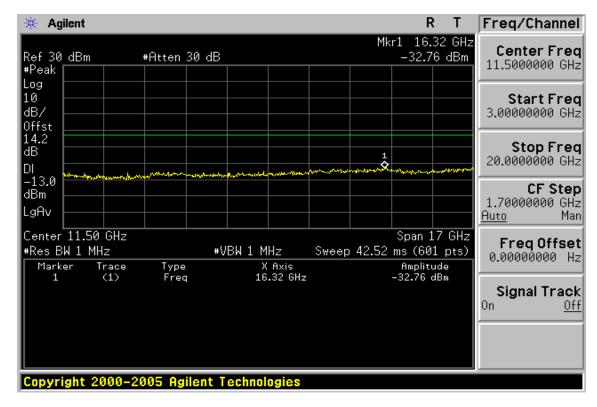


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Out of Band emission at antenna terminals—15MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Highest





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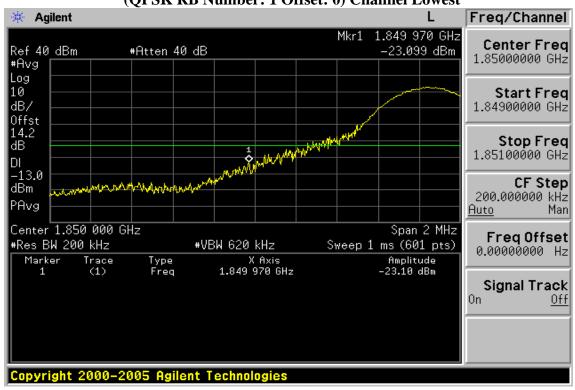
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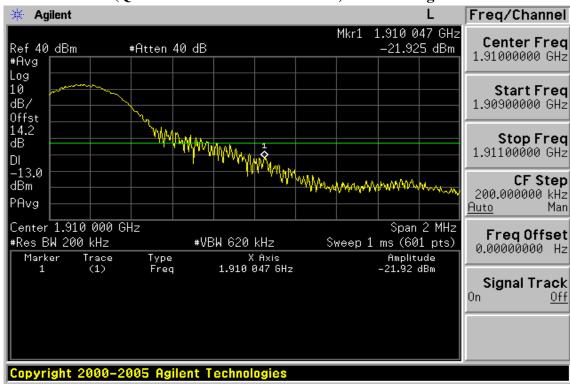
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Band edge emission at antenna terminals –15MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Lowest



Band edge emission at antenna terminals –15MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 74) Channel Highest



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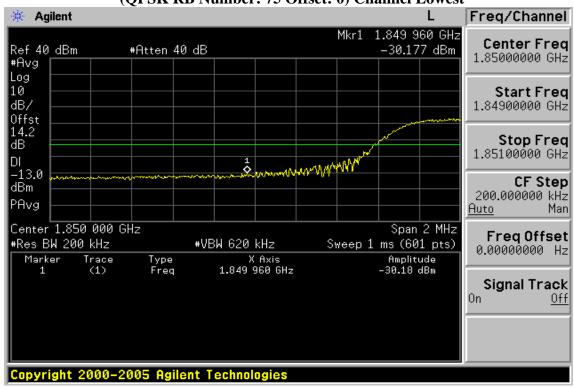
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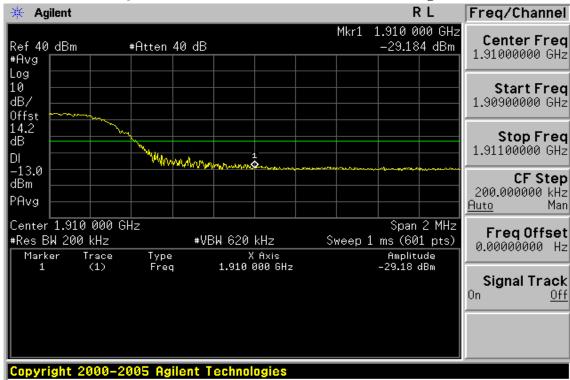
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Band edge emission at antenna terminals -15MHz BW LTE-Band 2 (QPSK RB Number: 75 Offset: 0) Channel Lowest



Band edge emission at antenna terminals -15MHz BW LTE-Band 2 (QPSK RB Number: 75 Offset: 0) Channel Highest



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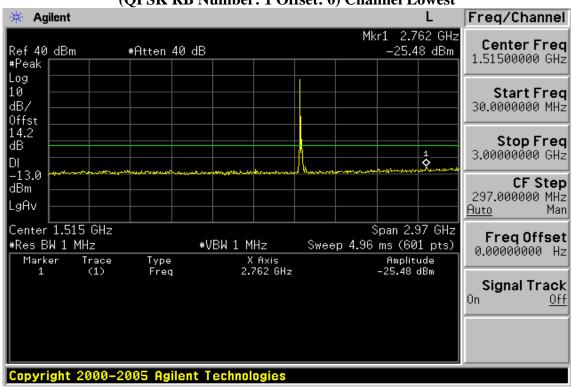
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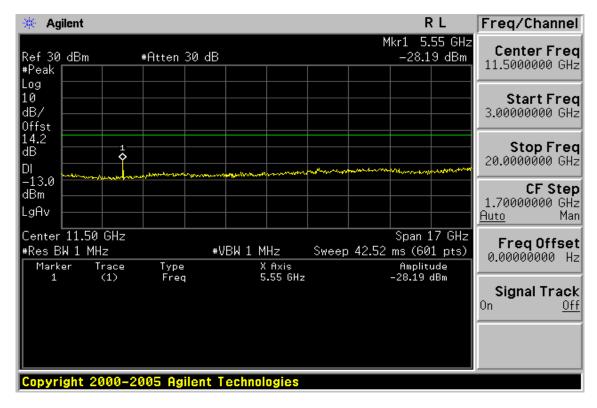


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Out of Band emission at antenna terminals-20MHz BW LTE-Band 2 (OPSK RB Number: 1 Offset: 0) Channel Lowest





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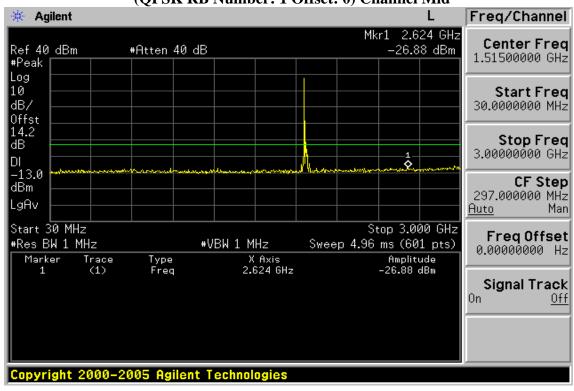
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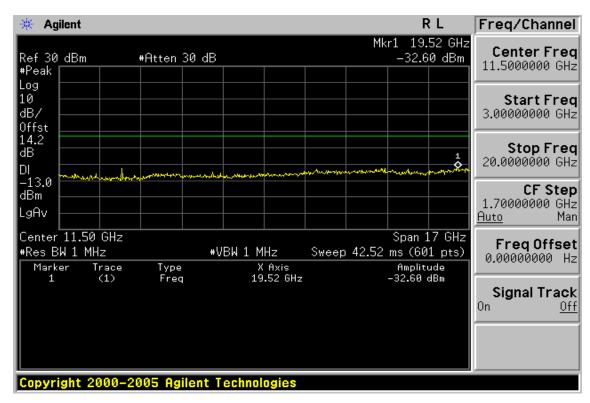


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Out of Band emission at antenna terminals –20MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Mid





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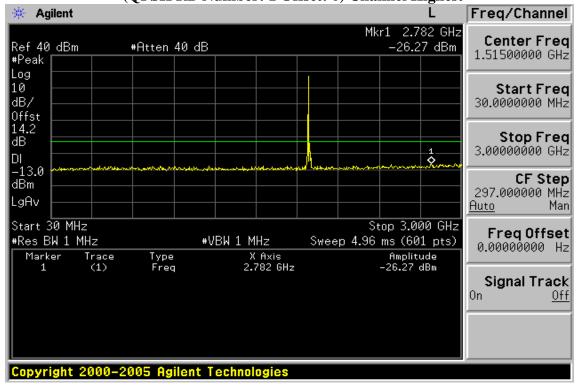
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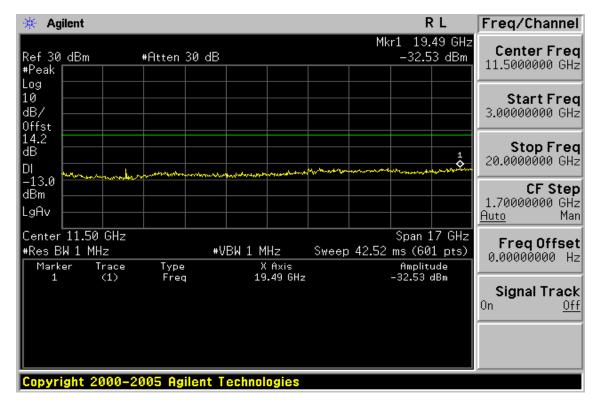


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Out of Band emission at antenna terminals-20MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Highest





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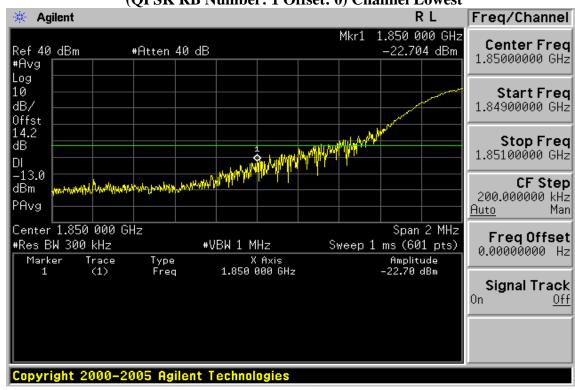
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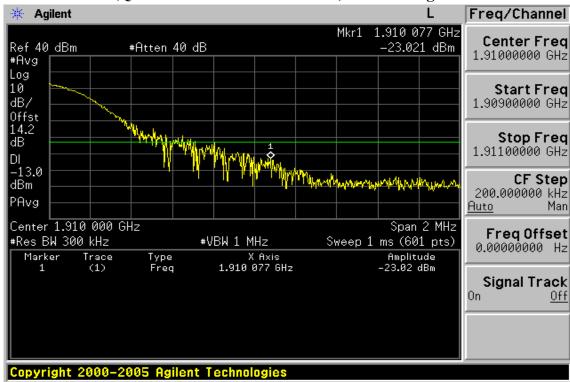
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Band edge emission at antenna terminals –20MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Lowest



Band edge emission at antenna terminals –20MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 99) Channel Highest



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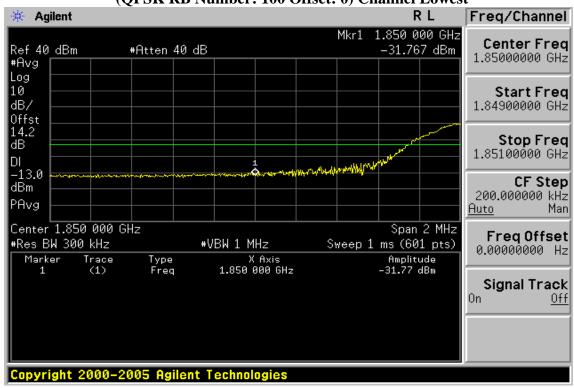
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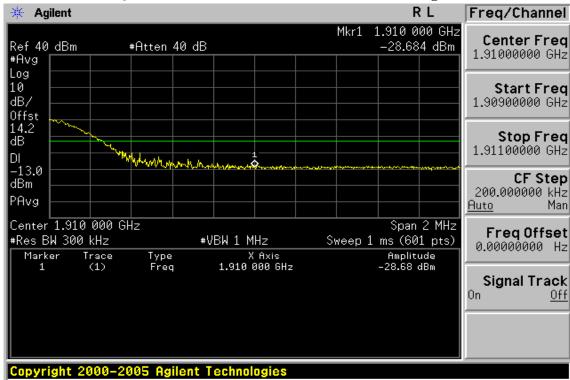
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Band edge emission at antenna terminals -20MHz BW LTE-Band 2 (QPSK RB Number: 100 Offset: 0) Channel Lowest



Band edge emission at antenna terminals -20MHz BW LTE-Band 2 (QPSK RB Number: 100 Offset: 0) Channel Highest



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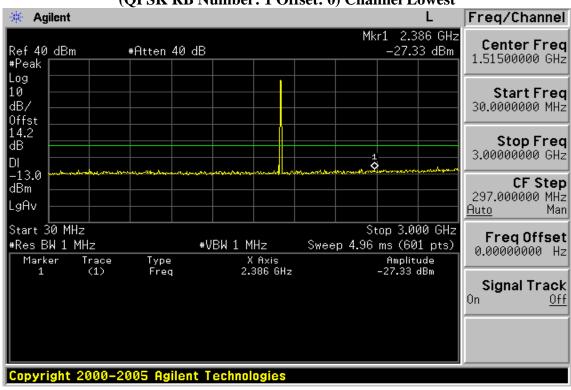
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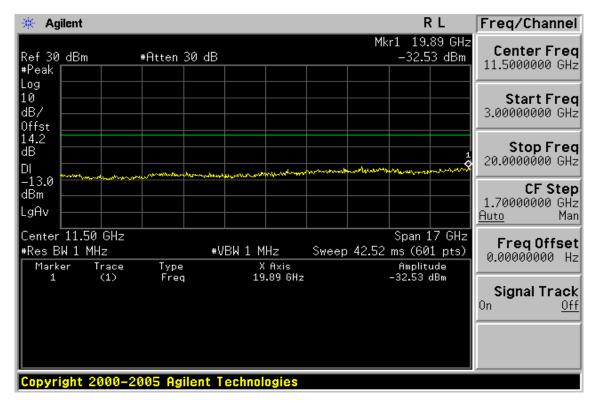


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Out of Band emission at antenna terminals—1.4MHz BW LTE-Band 4 (OPSK RB Number: 1 Offset: 0) Channel Lowest





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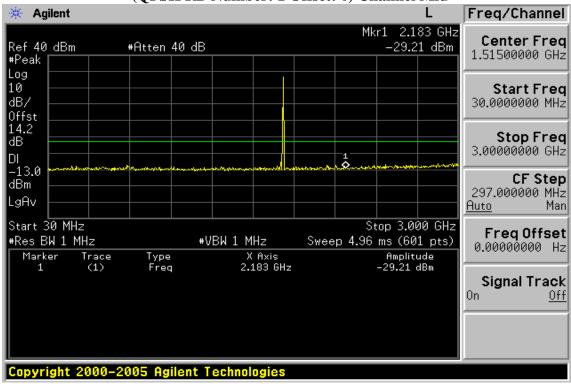
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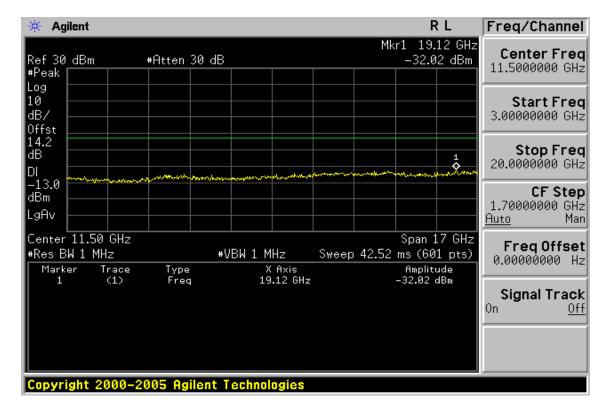


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Out of Band emission at antenna terminals—1.4MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Mid





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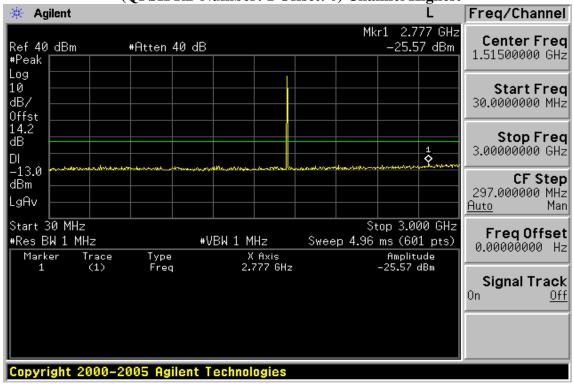
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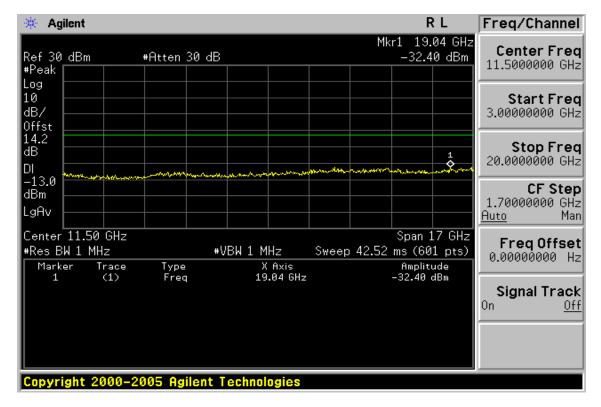


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Out of Band emission at antenna terminals—1.4MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Highest





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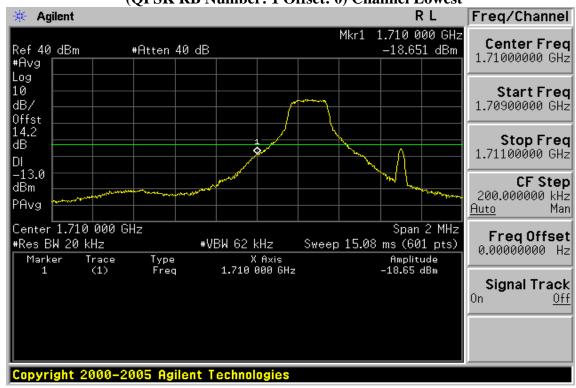
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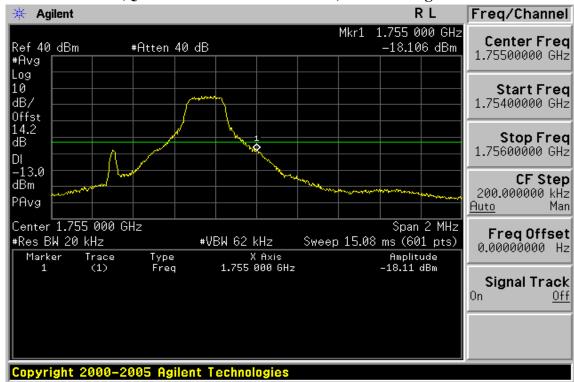
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Band edge emission at antenna terminals -1.4MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Lowest



Band edge emission at antenna terminals -1.4MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 5) Channel Highest



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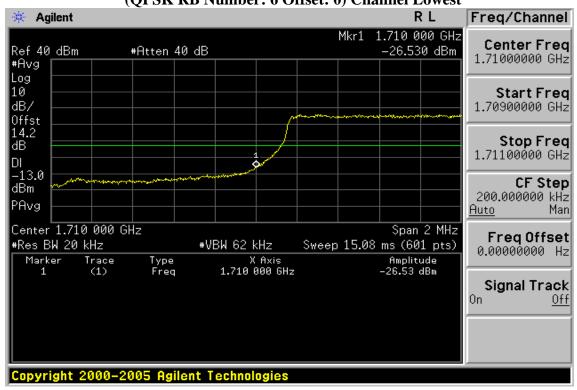
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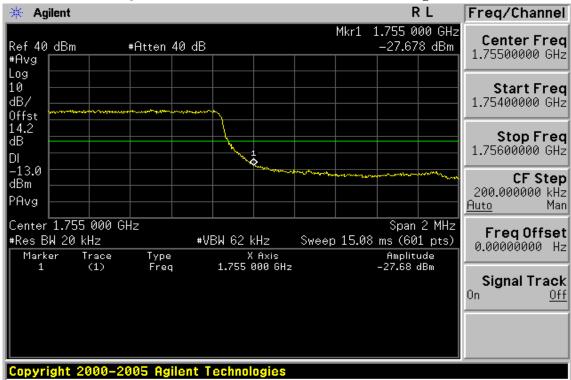
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Band edge emission at antenna terminals -1.4MHz BW LTE-Band 4 (QPSK RB Number: 6 Offset: 0) Channel Lowest



Band edge emission at antenna terminals -1.4MHz BW LTE-Band 4 (QPSK RB Number: 6 Offset: 0) Channel Highest



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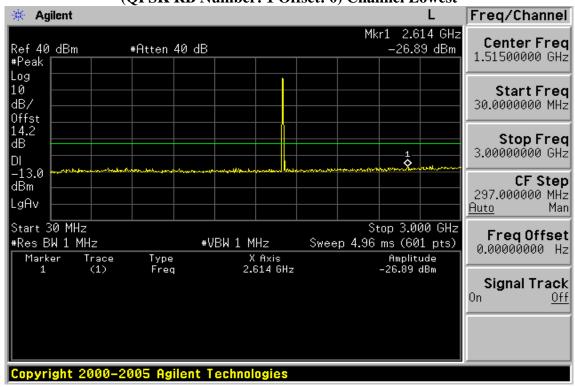
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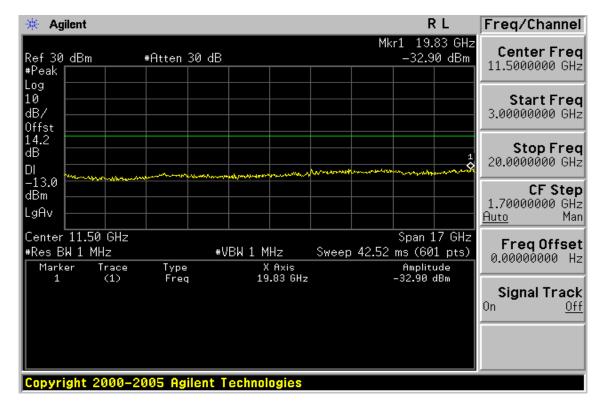


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Out of Band emission at antenna terminals-3MHz BW LTE-Band 4 (OPSK RB Number: 1 Offset: 0) Channel Lowest





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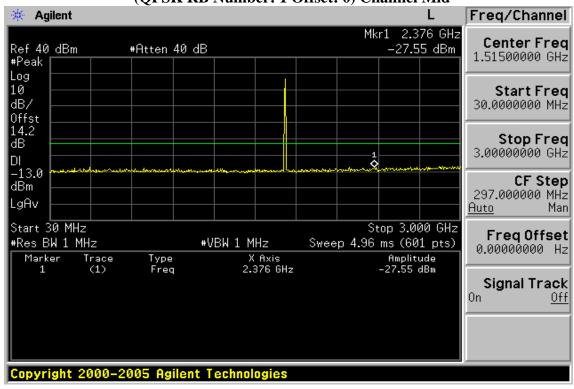
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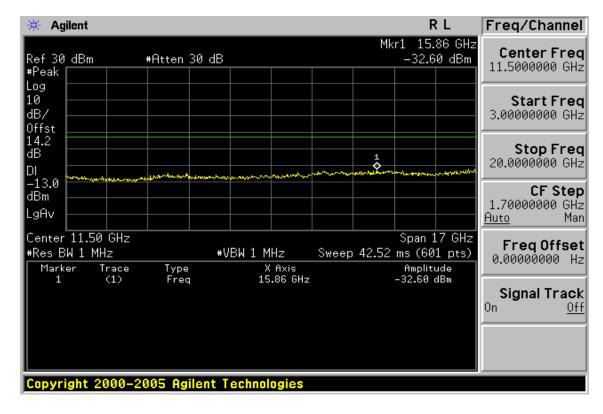


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Out of Band emission at antenna terminals –3MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Mid





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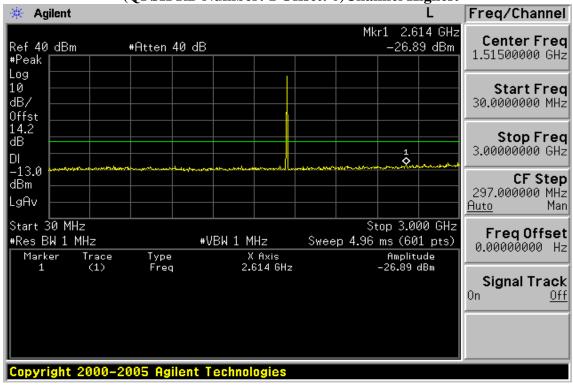
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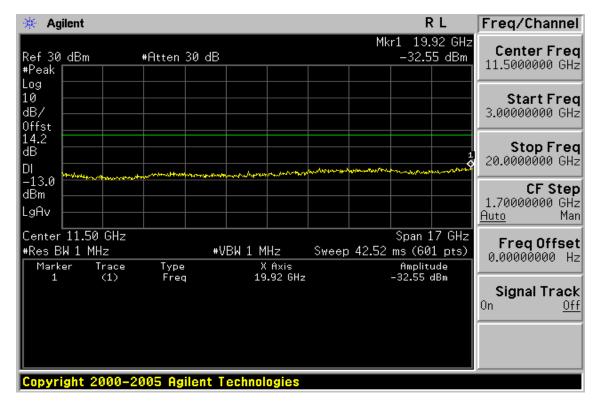


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Out of Band emission at antenna terminals-3MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Highest





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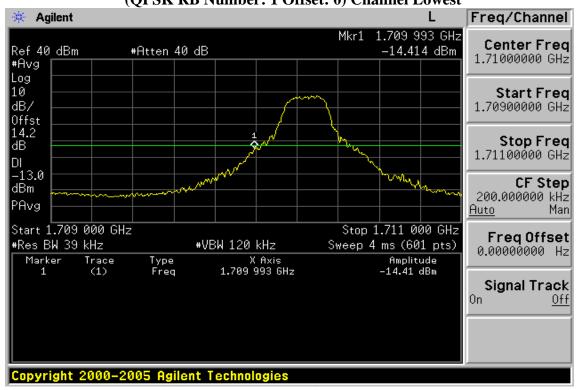
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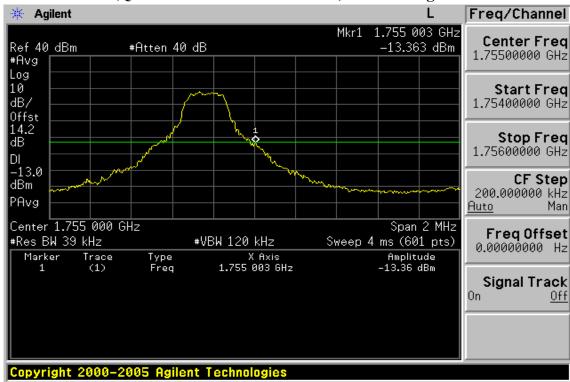
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Band edge emission at antenna terminals –3MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Lowest



Band edge emission at antenna terminals –3MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 14) Channel Highest



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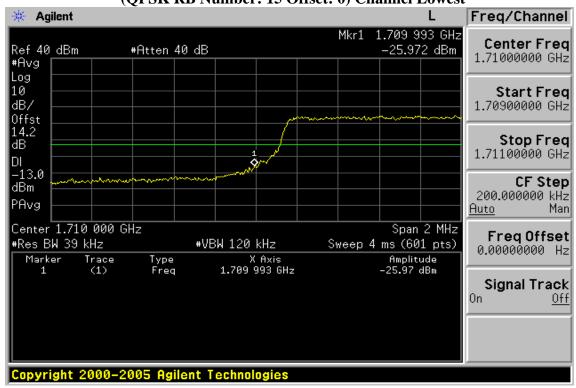
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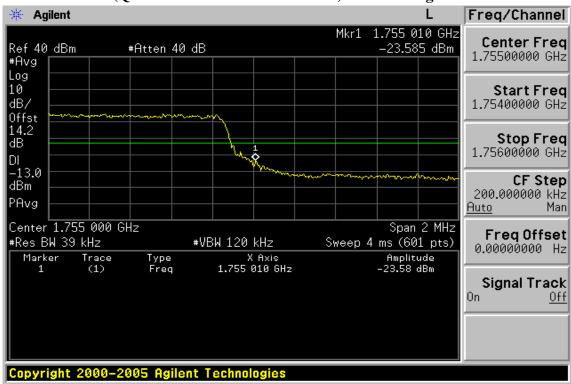
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Band edge emission at antenna terminals -3MHz BW LTE-Band 4 (OPSK RB Number: 15 Offset: 0) Channel Lowest



Band edge emission at antenna terminals -3MHz BW LTE-Band 4 (QPSK RB Number: 15 Offset: 0) Channel Highest



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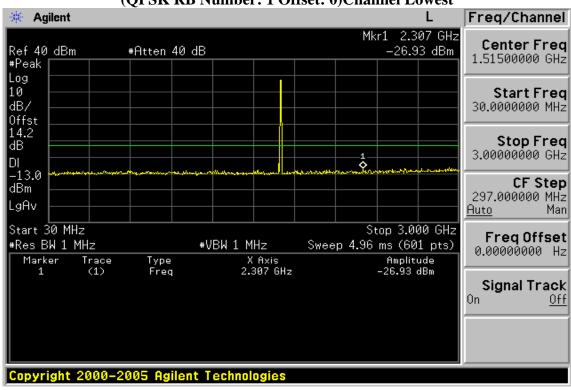
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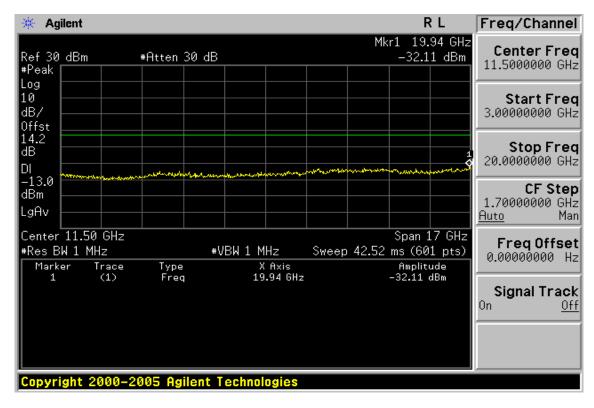


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Out of Band emission at antenna terminals-5MHz BW LTE-Band 4 (OPSK RB Number: 1 Offset: 0) Channel Lowest





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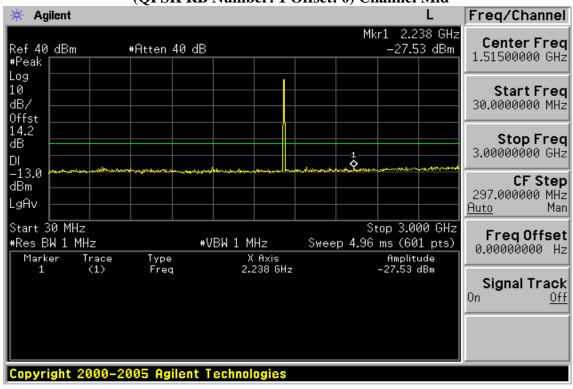
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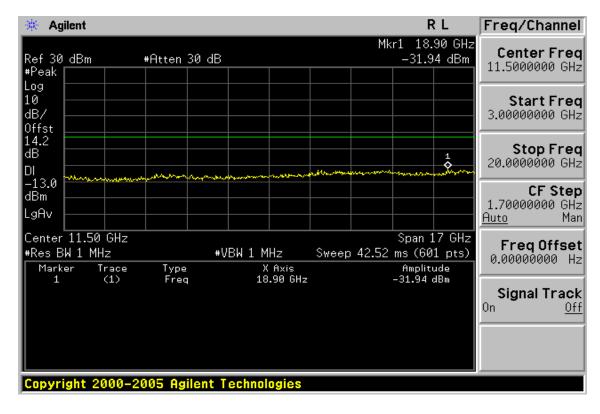


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Out of Band emission at antenna terminals –5MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Mid





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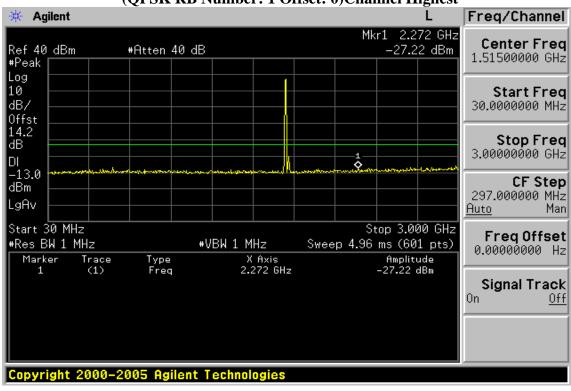
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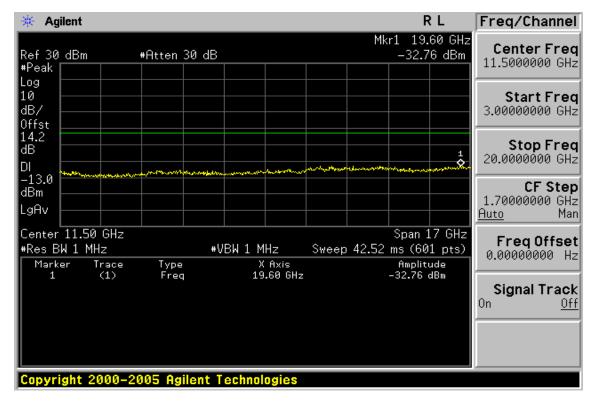


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Out of Band emission at antenna terminals-5MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Highest





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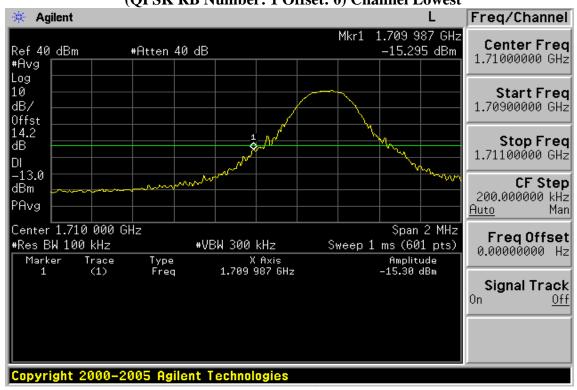
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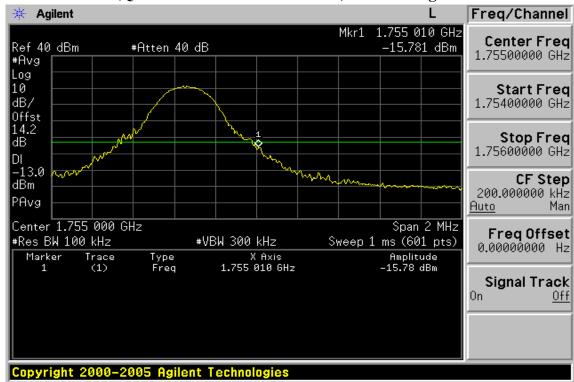
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Band edge emission at antenna terminals –5MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Lowest



Band edge emission at antenna terminals –5MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 24) Channel Highest



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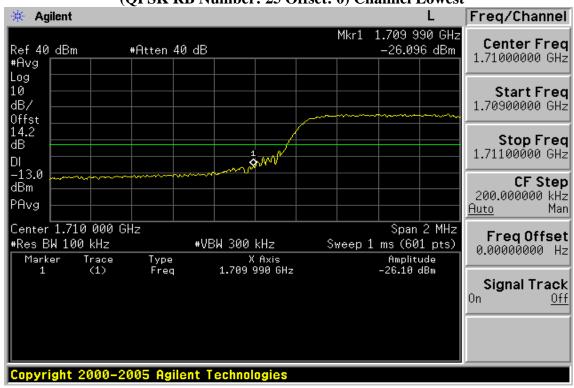
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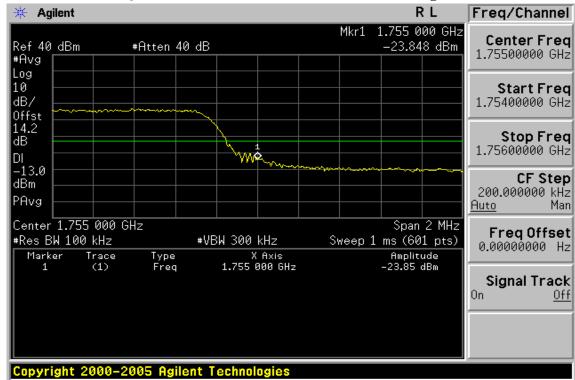
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Band edge emission at antenna terminals –5MHz BW LTE-Band 4 (QPSK RB Number: 25 Offset: 0) Channel Lowest



Band edge emission at antenna terminals –5MHz BW LTE-Band 4 (QPSK RB Number: 25 Offset: 0) Channel Highest



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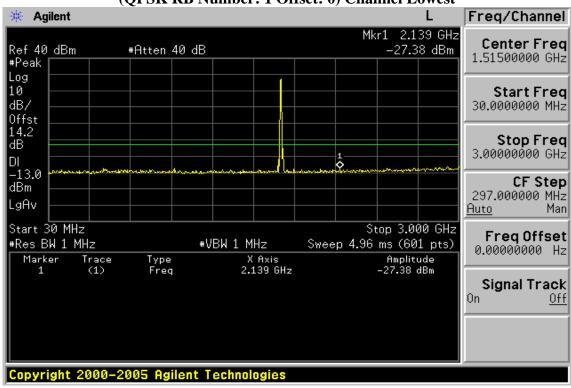
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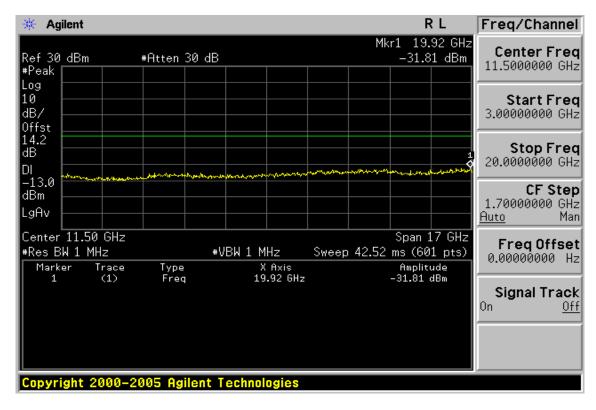


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Out of Band emission at antenna terminals-10MHz BW LTE-Band 4 (OPSK RB Number: 1 Offset: 0) Channel Lowest





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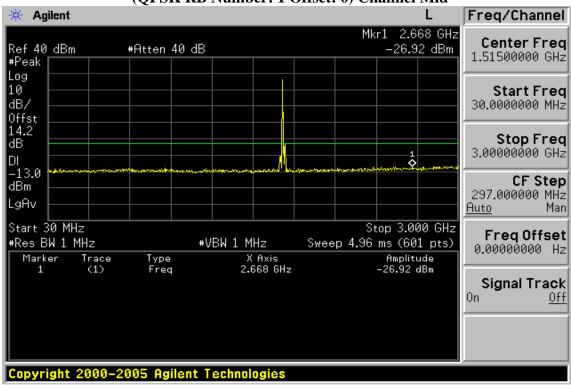
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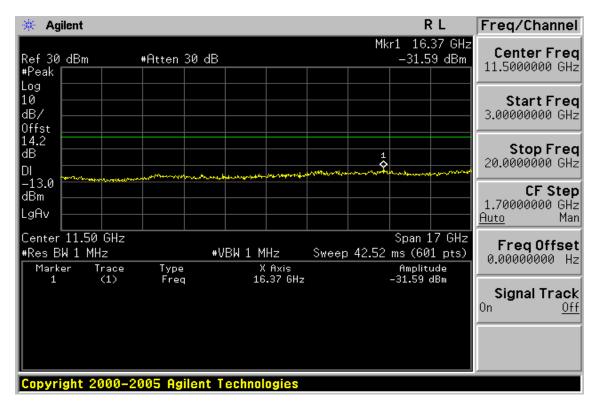


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Out of Band emission at antenna terminals -10MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Mid





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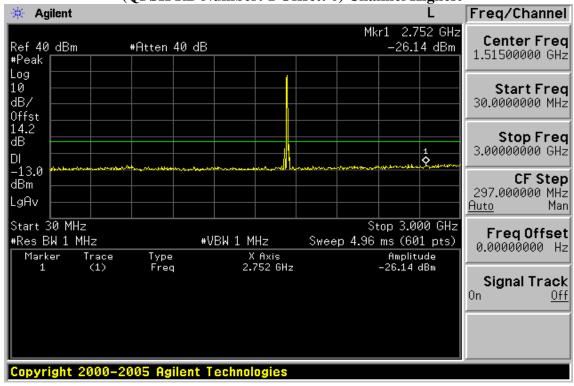
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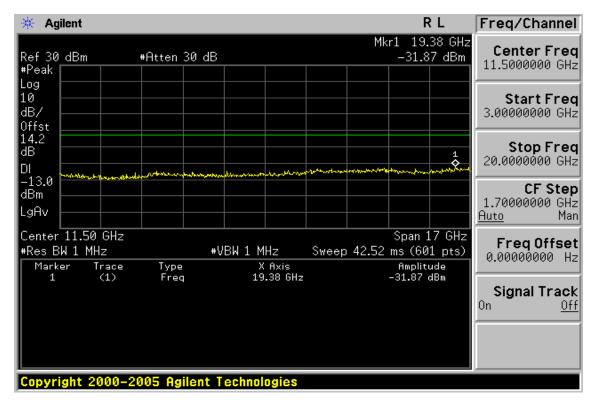


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Out of Band emission at antenna terminals-10MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Highest





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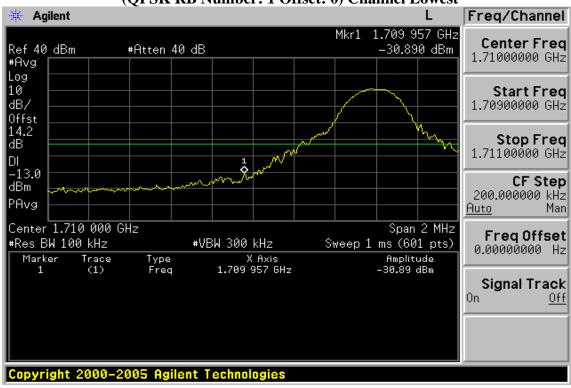
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Band edge emission at antenna terminals –10MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Lowest



Band edge emission at antenna terminals –10MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 49) Channel Highest



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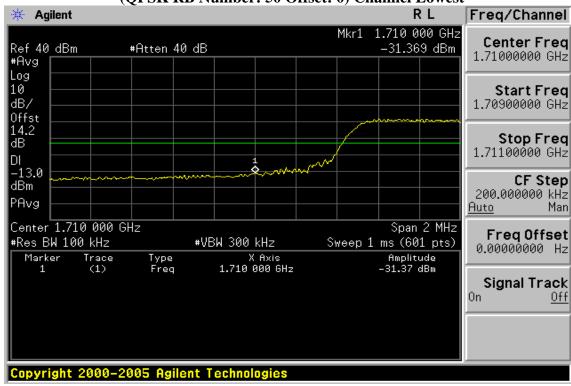
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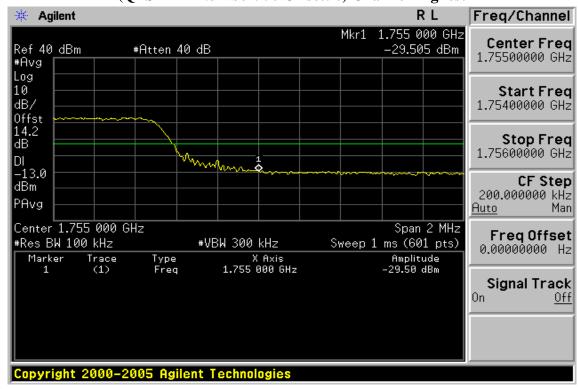
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Band edge emission at antenna terminals –10MHz BW LTE-Band 4 (QPSK RB Number: 50 Offset: 0) Channel Lowest



Band edge emission at antenna terminals –10MHz BW LTE-Band 4 (OPSK RB Number: 50 Offset: 0) Channel Highest



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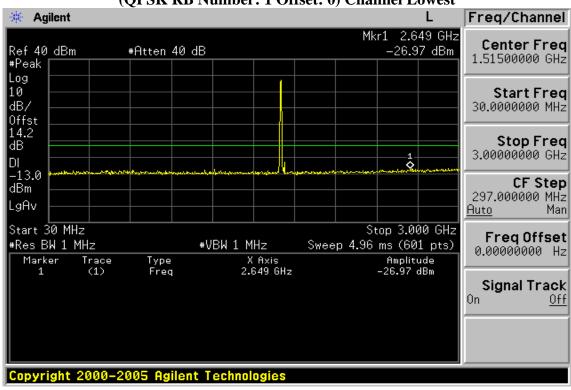
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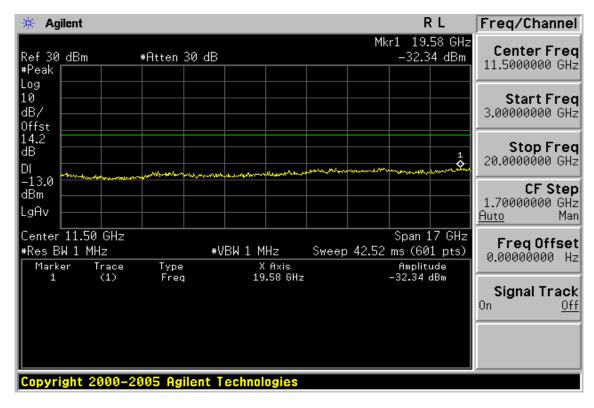


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Out of Band emission at antenna terminals-15MHz BW LTE-Band 4 (OPSK RB Number: 1 Offset: 0) Channel Lowest





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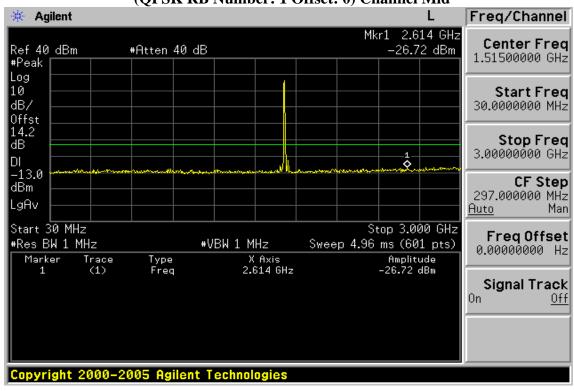
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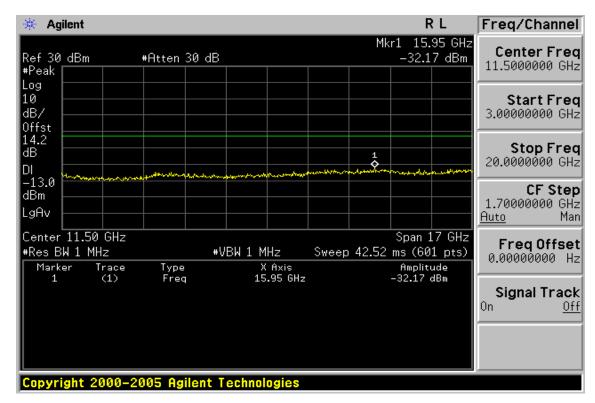


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Out of Band emission at antenna terminals –15MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Mid





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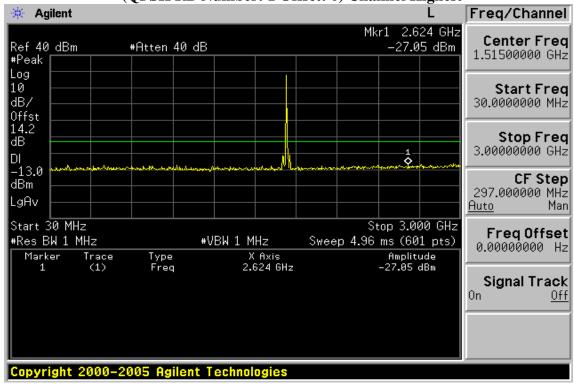
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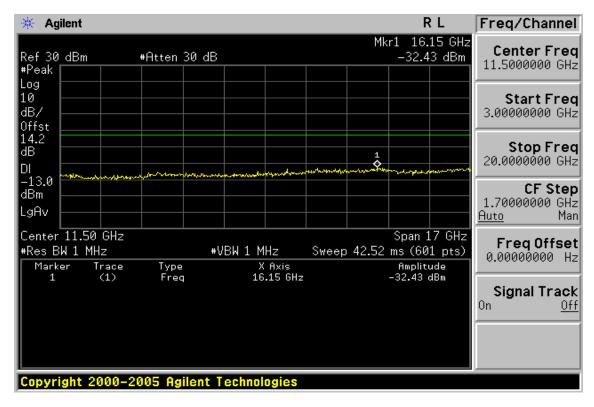


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Out of Band emission at antenna terminals-15MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Highest





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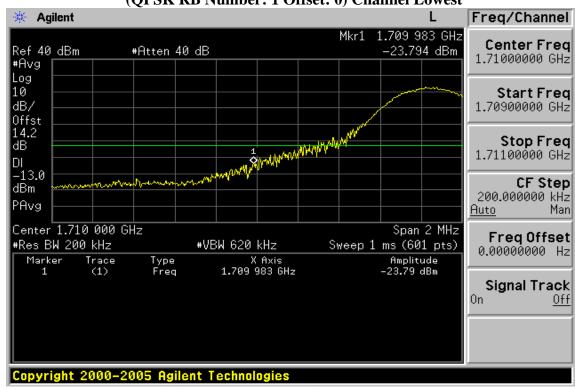
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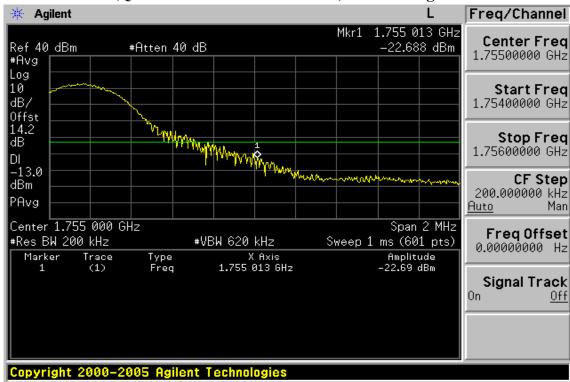
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Band edge emission at antenna terminals -15MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Lowest



Band edge emission at antenna terminals -15MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 74) Channel Highest



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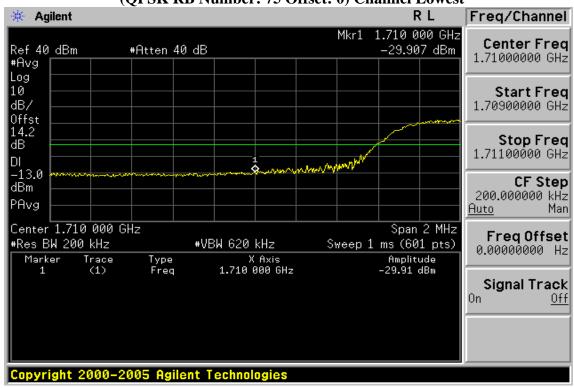
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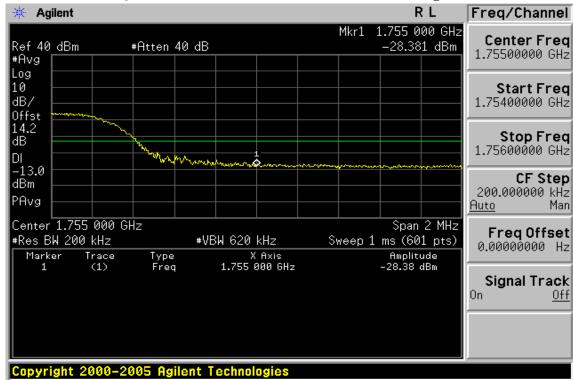
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Band edge emission at antenna terminals –15MHz BW LTE-Band 4 (QPSK RB Number: 75 Offset: 0) Channel Lowest



Band edge emission at antenna terminals –15MHz BW LTE-Band 4 (QPSK RB Number: 75 Offset: 04) Channel Highest



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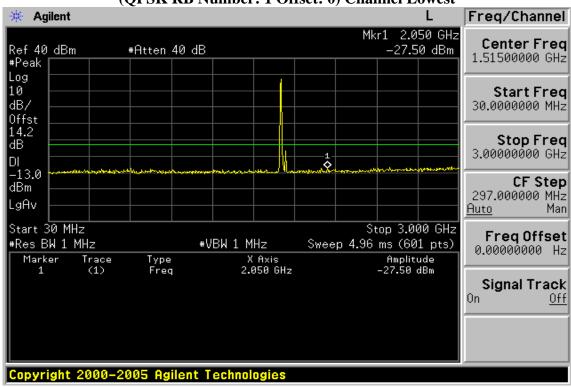
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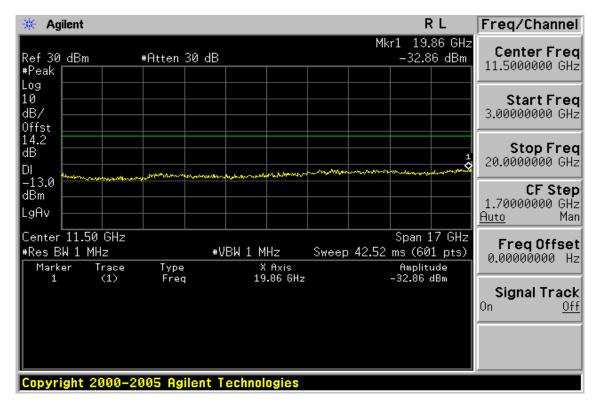


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Out of Band emission at antenna terminals-20MHz BW LTE-Band 4 (OPSK RB Number: 1 Offset: 0) Channel Lowest





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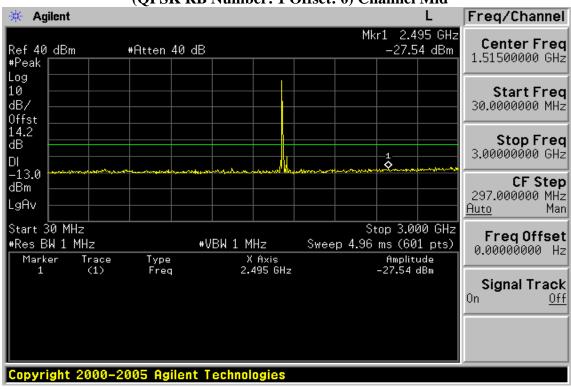
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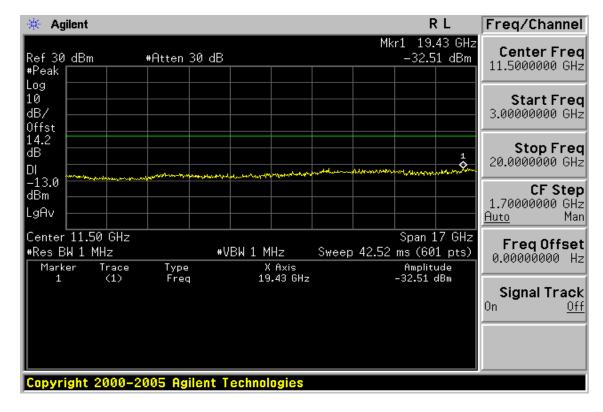


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Out of Band emission at antenna terminals -20MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Mid





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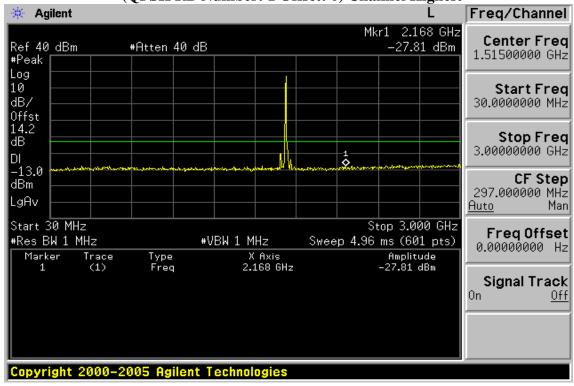
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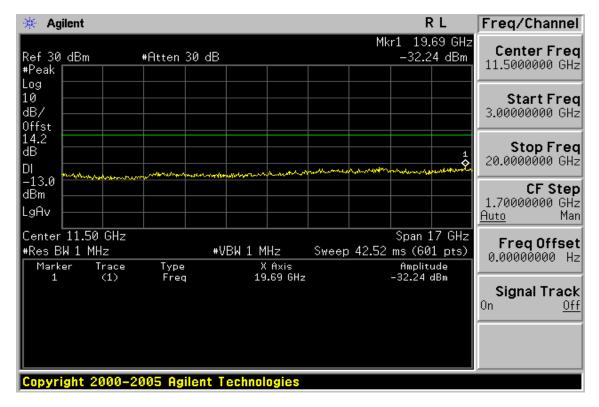


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Out of Band emission at antenna terminals-20MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Highest





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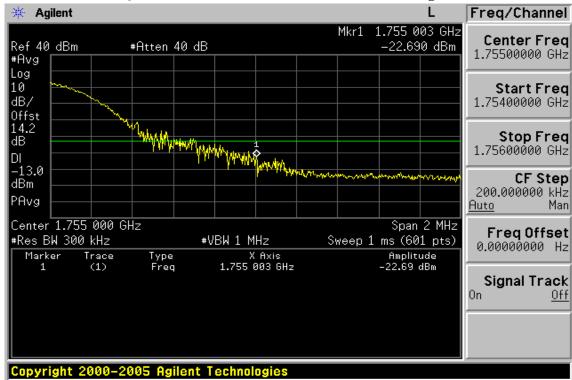
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Band edge emission at antenna terminals -20MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Lowest



Band edge emission at antenna terminals -20MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 99) Channel Highest



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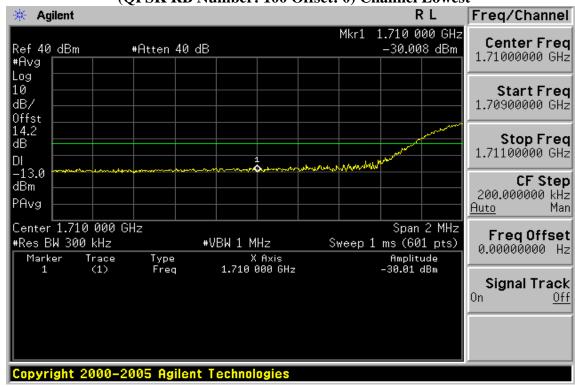
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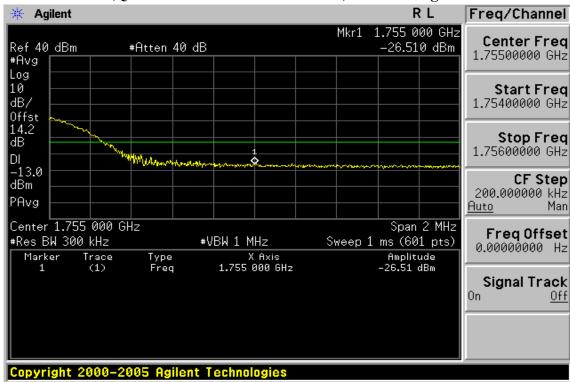
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Band edge emission at antenna terminals –20MHz BW LTE-Band 4 (QPSK RB Number: 100 Offset: 0) Channel Lowest



Band edge emission at antenna terminals –20MHz BW LTE-Band 4 (QPSK RB Number: 100 Offset: 0) Channel Highest



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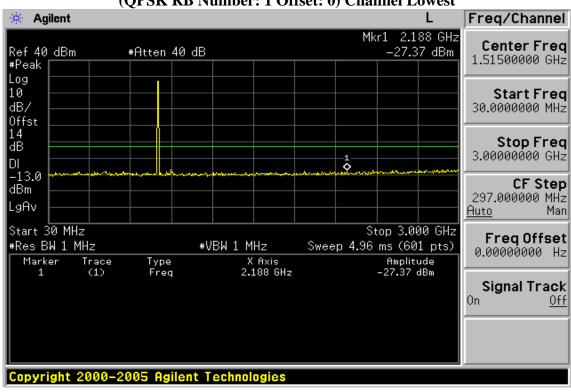
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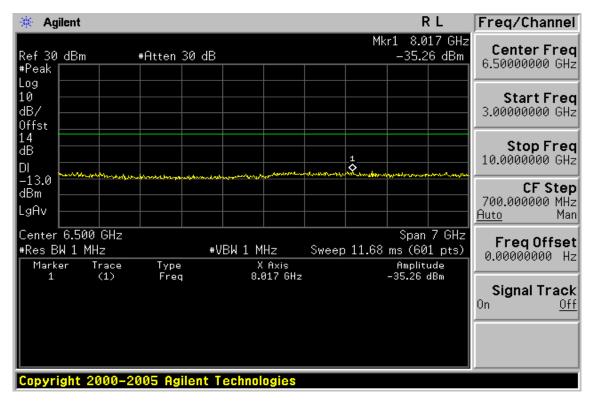


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Out of Band emission at antenna terminals—1.4MHz BW LTE-Band 5 (OPSK RB Number: 1 Offset: 0) Channel Lowest





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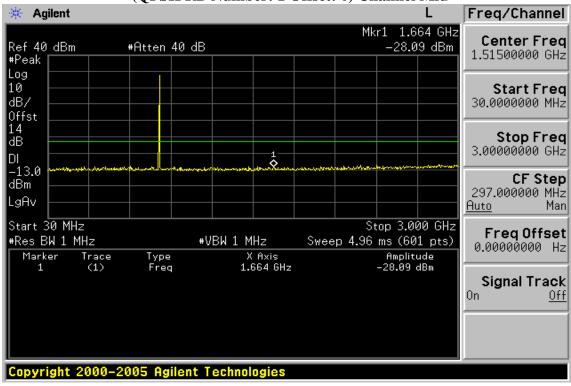
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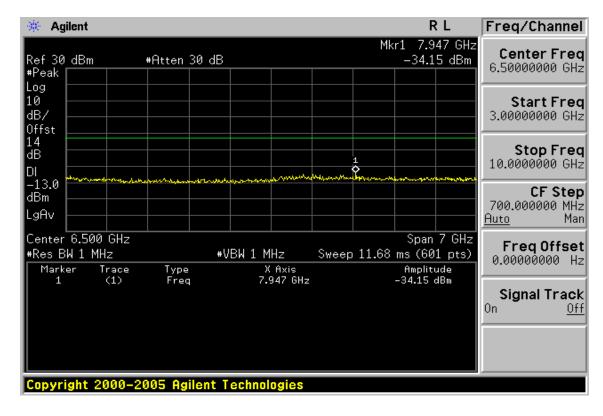


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Out of Band emission at antenna terminals –1.4MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Mid





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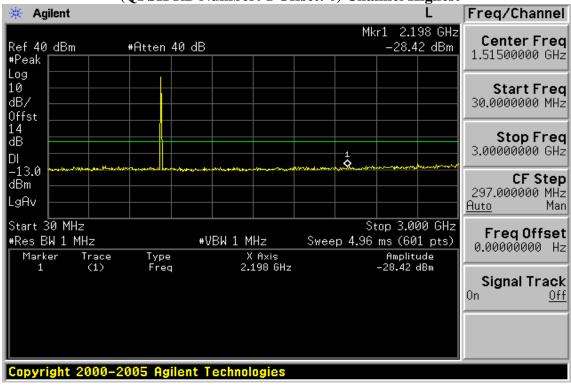
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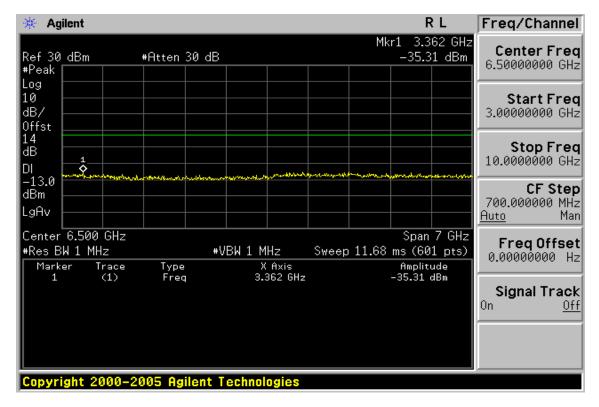


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Out of Band emission at antenna terminals—1.4MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Highest





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Band edge emission at antenna terminals -1.4MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Lowest



Band edge emission at antenna terminals –1.4MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 5) Channel Highest



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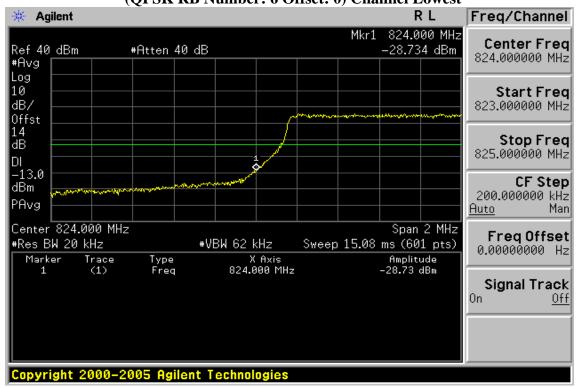
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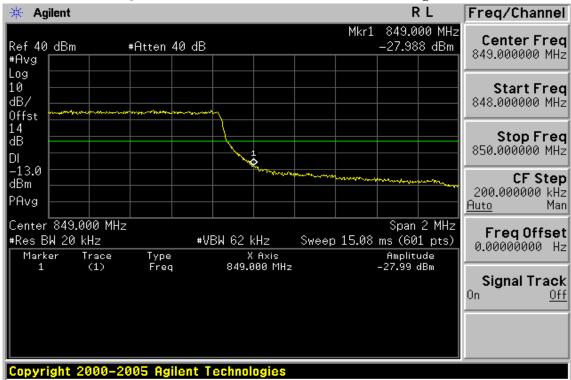
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Band edge emission at antenna terminals –1.4MHz BW LTE-Band 5 (QPSK RB Number: 6 Offset: 0) Channel Lowest



Band edge emission at antenna terminals –1.4MHz BW LTE-Band 5 (QPSK RB Number: 6 Offset: 0) Channel Highest



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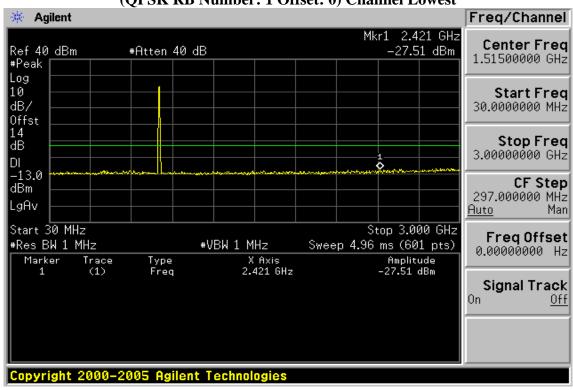
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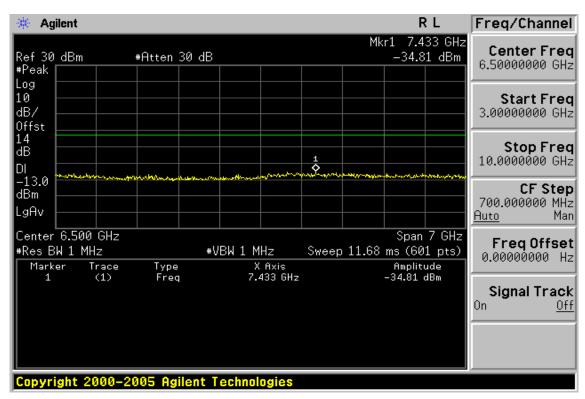


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Out of Band emission at antenna terminals-3MHz BW LTE-Band 5 (OPSK RB Number: 1 Offset: 0) Channel Lowest





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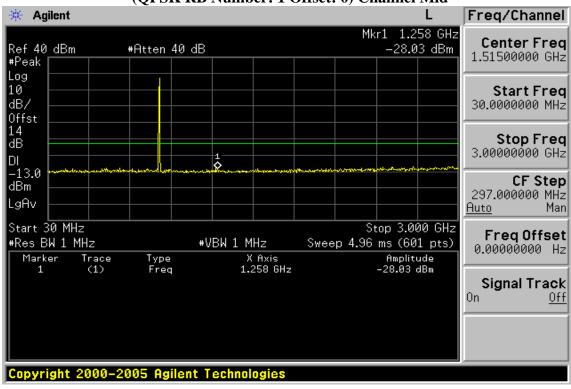
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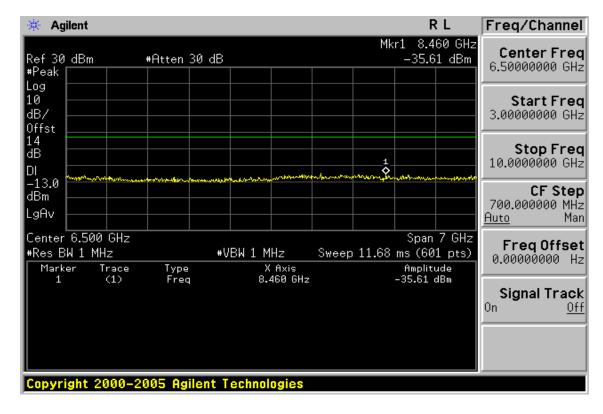


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Out of Band emission at antenna terminals –3MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Mid





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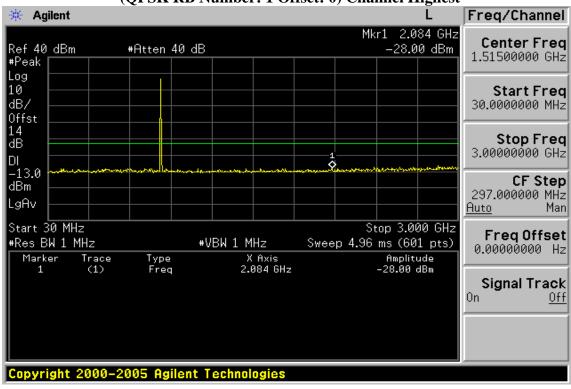
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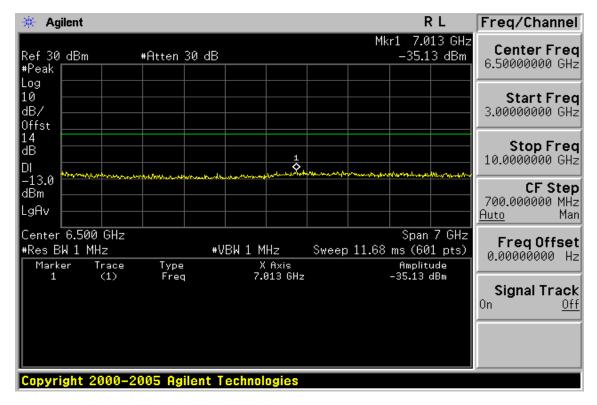


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Out of Band emission at antenna terminals-3MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Highest





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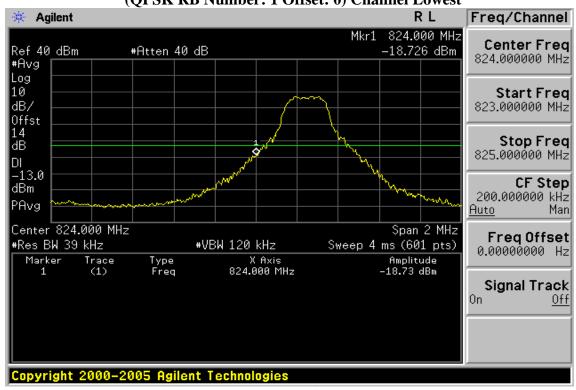
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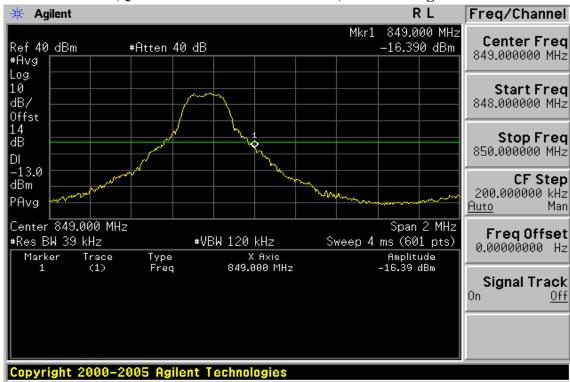
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Band edge emission at antenna terminals –3MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Lowest



Band edge emission at antenna terminals –3MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 14) Channel Highest



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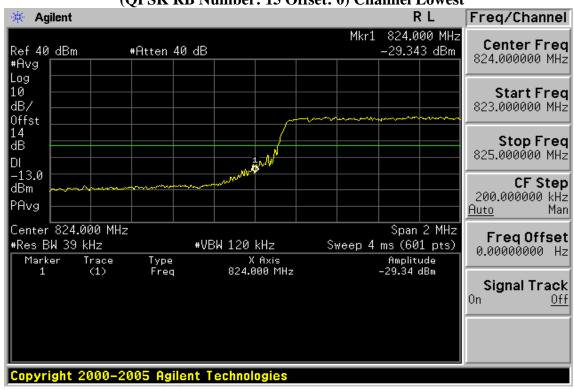
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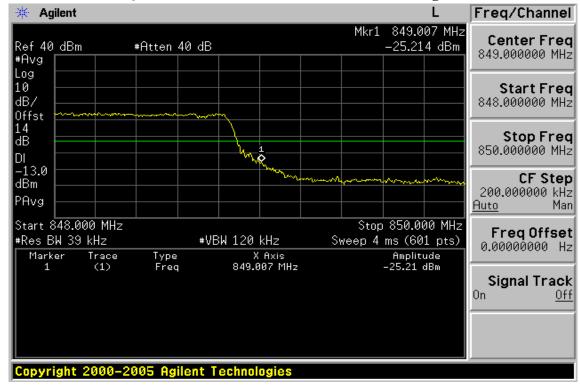
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Band edge emission at antenna terminals –3MHz BW LTE-Band 5 (QPSK RB Number: 15 Offset: 0) Channel Lowest



Band edge emission at antenna terminals -3MHz BW LTE-Band 5 (QPSK RB Number: 15 Offset: 0) Channel Highest



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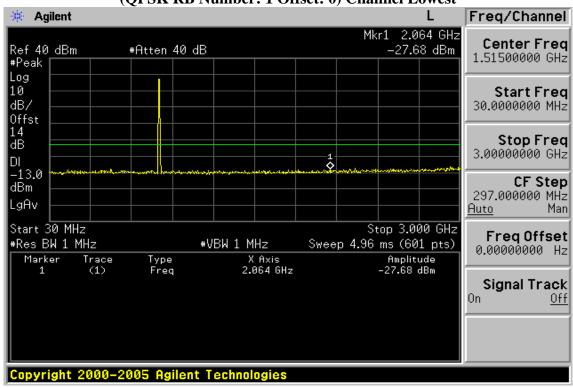
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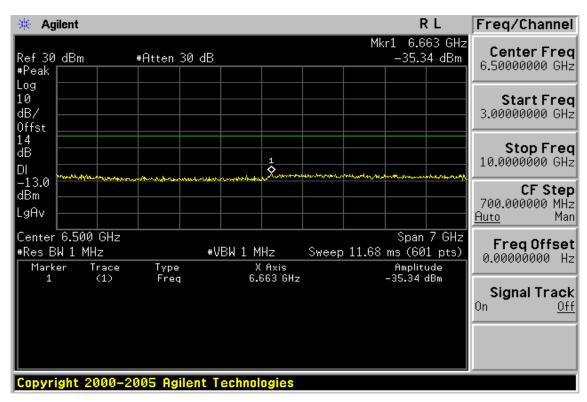


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Out of Band emission at antenna terminals-5MHz BW LTE-Band 5 (OPSK RB Number: 1 Offset: 0) Channel Lowest





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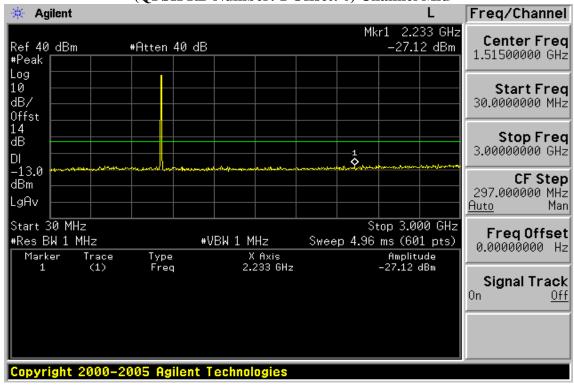
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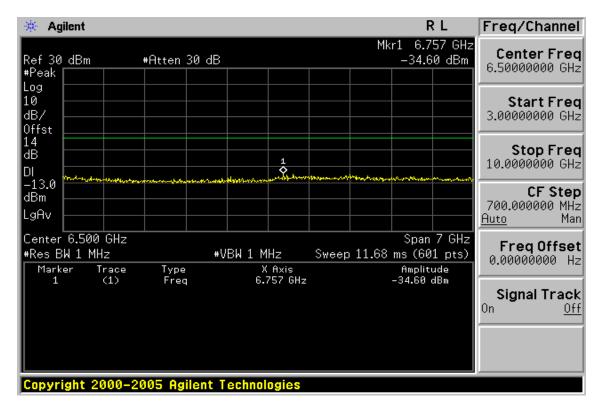


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Out of Band emission at antenna terminals –5MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Mid





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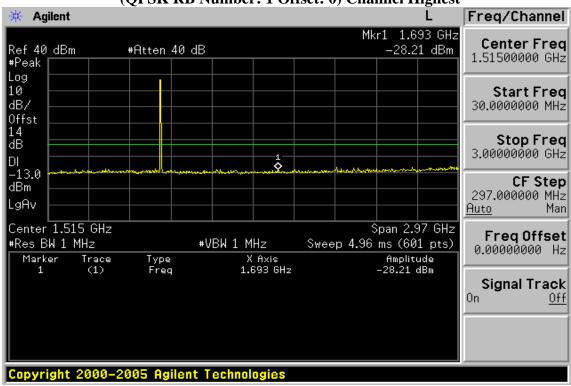
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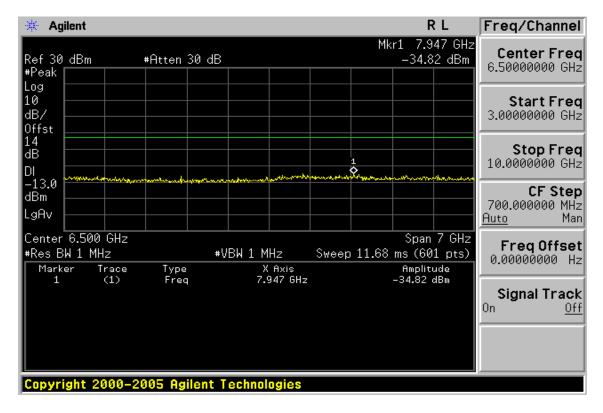


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Out of Band emission at antenna terminals-5MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Highest





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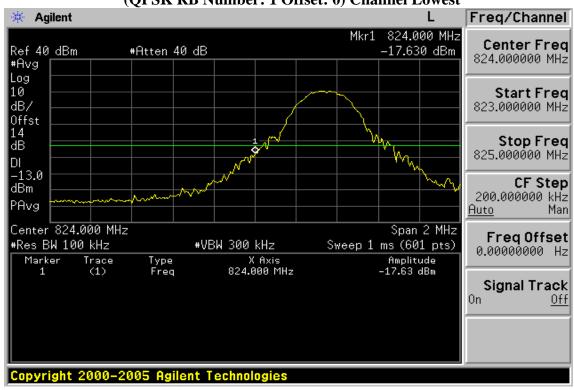
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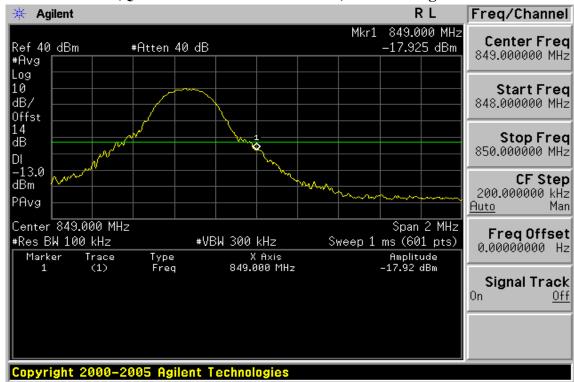
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Band edge emission at antenna terminals –5MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Lowest



Band edge emission at antenna terminals –5MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 24) Channel Highest



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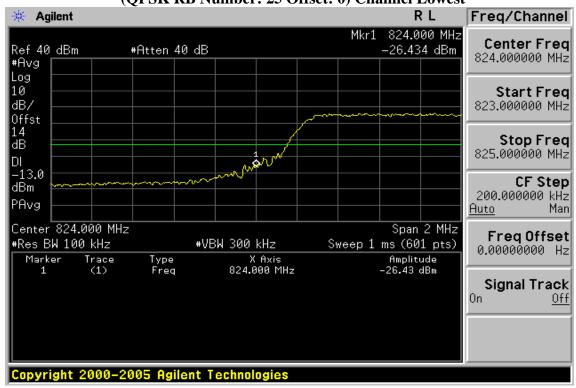
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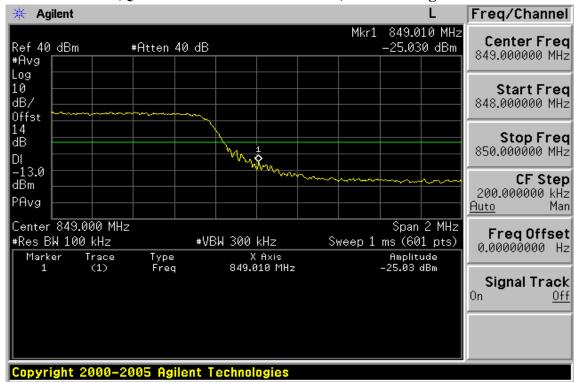
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Band edge emission at antenna terminals -5MHz BW LTE-Band 5 (QPSK RB Number: 25 Offset: 0) Channel Lowest



Band edge emission at antenna terminals -5MHz BW LTE-Band 5 (QPSK RB Number: 25 Offset: 0) Channel Highest



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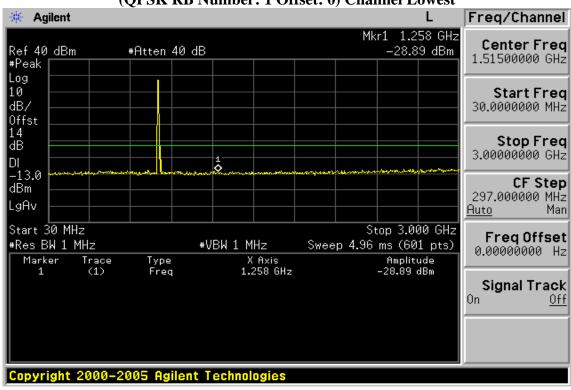
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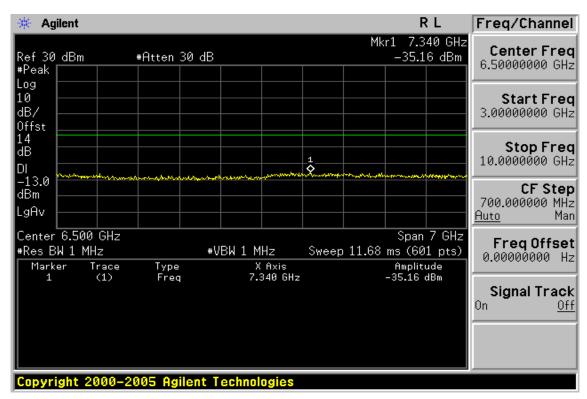


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Out of Band emission at antenna terminals-10MHz BW LTE-Band 5 (OPSK RB Number: 1 Offset: 0) Channel Lowest





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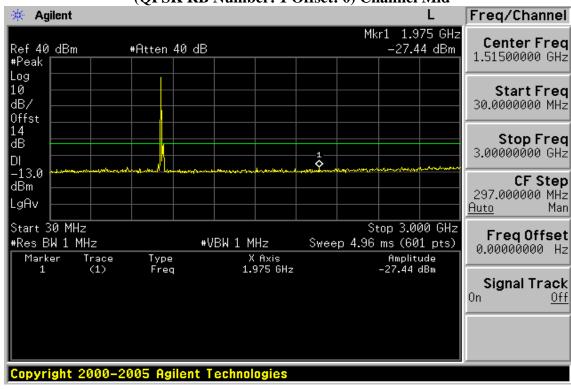
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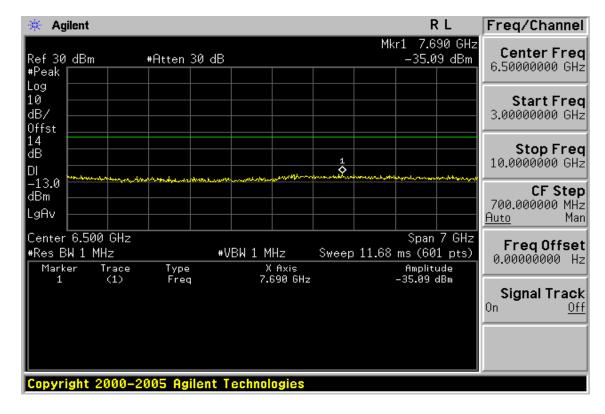


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Out of Band emission at antenna terminals –10MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Mid





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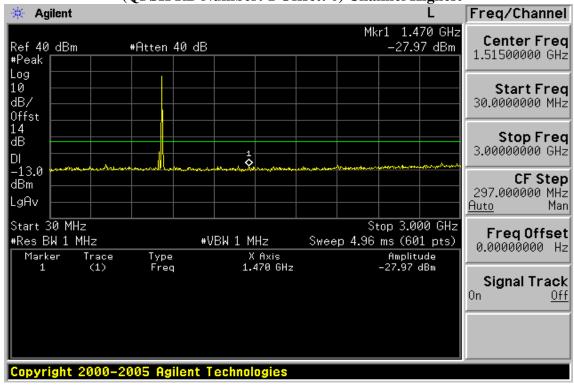
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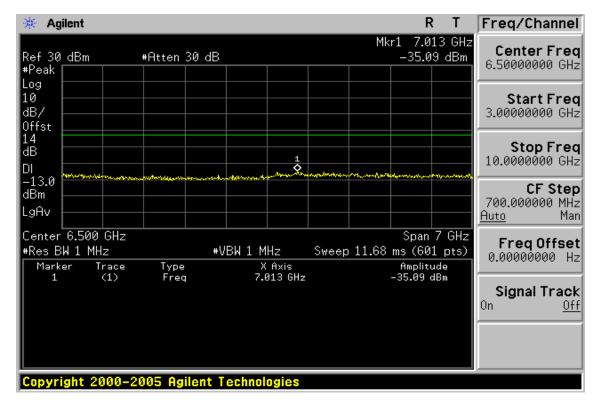


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Out of Band emission at antenna terminals-10MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Highest





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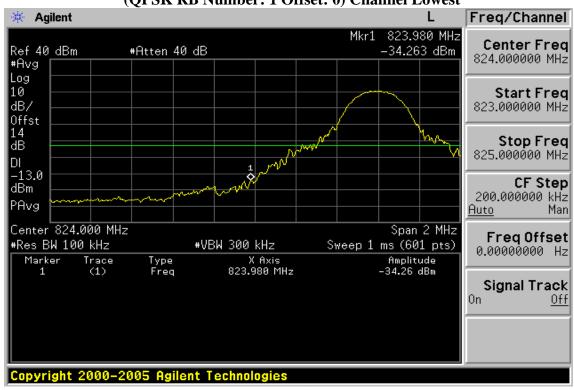
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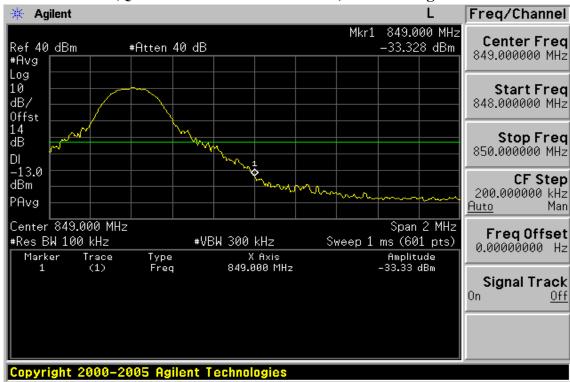
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Band edge emission at antenna terminals –10MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Lowest



Band edge emission at antenna terminals –10MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 49) Channel Highest



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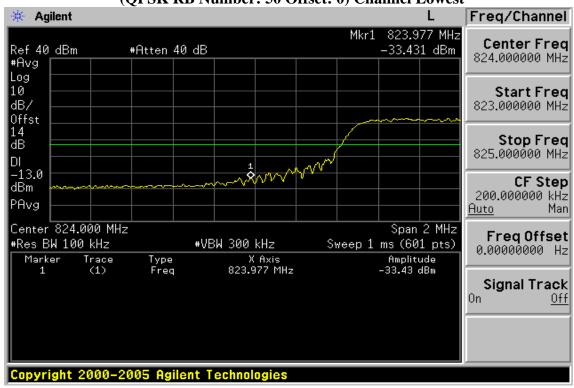
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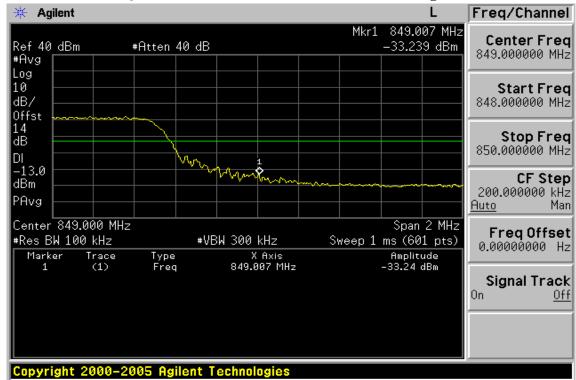
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Band edge emission at antenna terminals –10MHz BW LTE-Band 5 (QPSK RB Number: 50 Offset: 0) Channel Lowest



Band edge emission at antenna terminals –10MHz BW LTE-Band 5 (QPSK RB Number: 50 Offset: 0) Channel Highest



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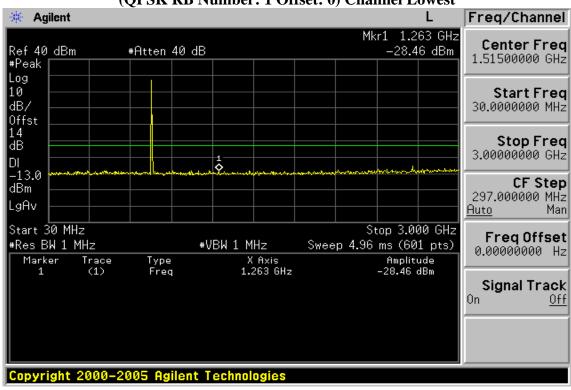
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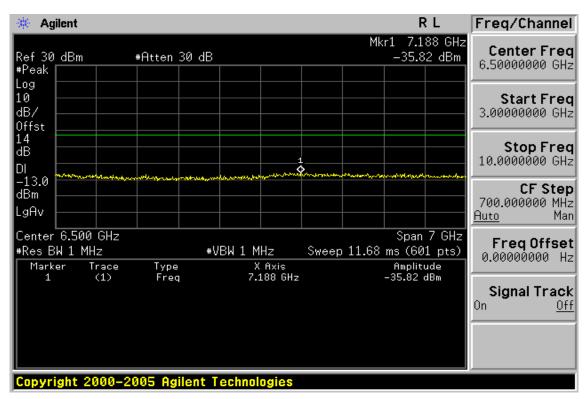


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Out of Band emission at antenna terminals-5MHz BW LTE-Band 13 (OPSK RB Number: 1 Offset: 0) Channel Lowest





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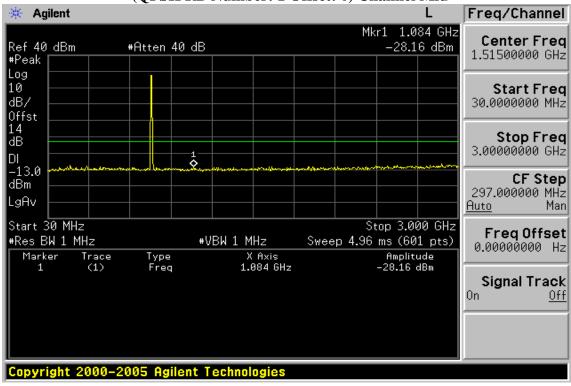
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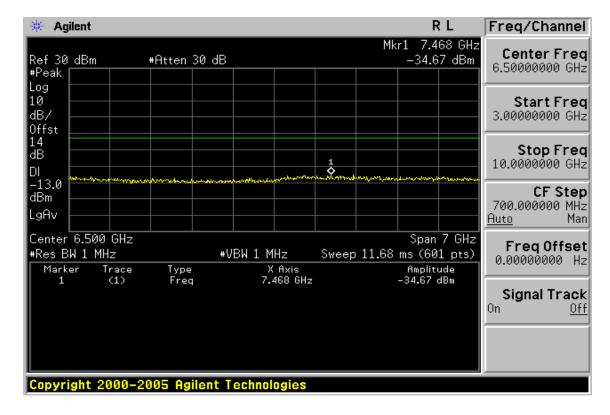


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Out of Band emission at antenna terminals –5MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 0) Channel Mid





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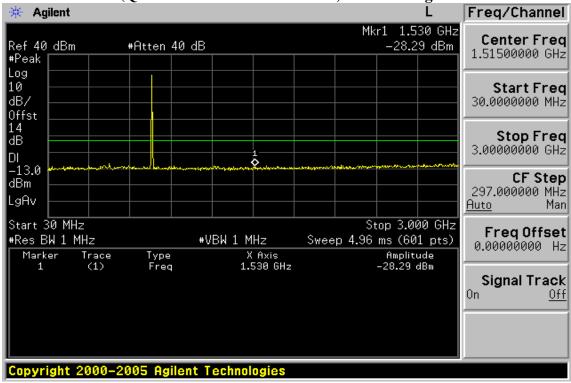
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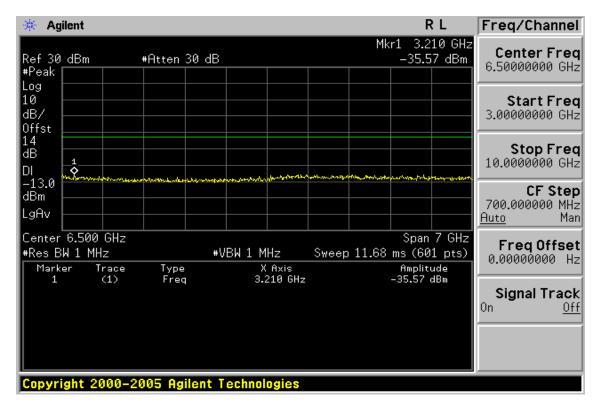


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Out of Band emission at antenna terminals-5MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 0) Channel Highest





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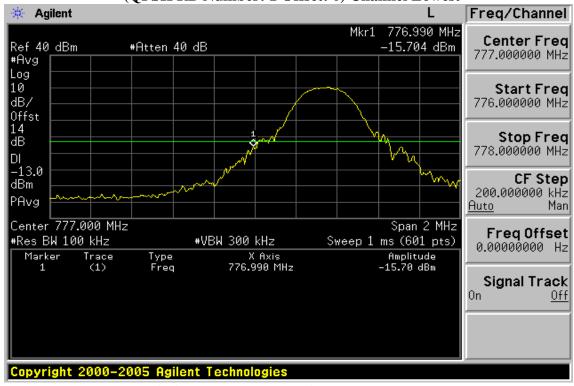
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Band edge emission at antenna terminals –5MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 0) Channel Lowest



Band edge emission at antenna terminals –5MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 24) Channel Highest



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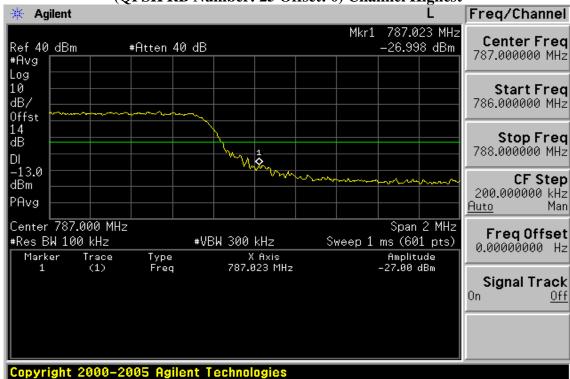
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Band edge emission at antenna terminals –5MHz BW LTE-Band 13 (QPSK RB Number: 25 Offset: 0) Channel Lowest



Band edge emission at antenna terminals –5MHz BW LTE-Band 13 (QPSK RB Number: 25 Offset: 0) Channel Highest



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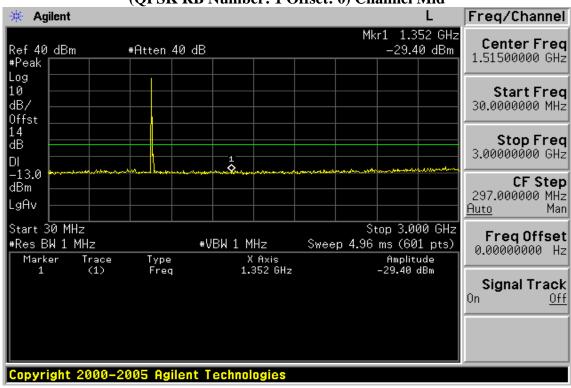
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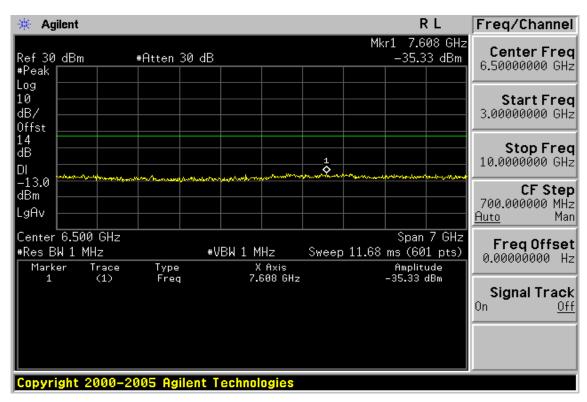


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Out of Band emission at antenna terminals-10MHz BW LTE-Band 13 (OPSK RB Number: 1 Offset: 0) Channel Mid





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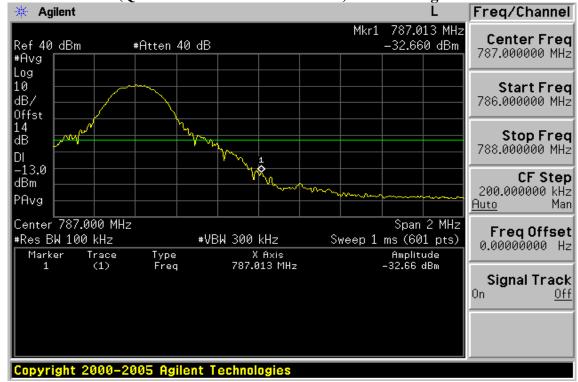
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Band edge emission at antenna terminals –10MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 0) Channel Lowest



Band edge emission at antenna terminals –10MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 49) Channel Highest



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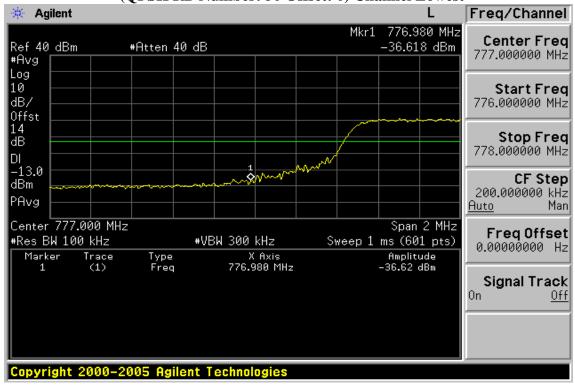
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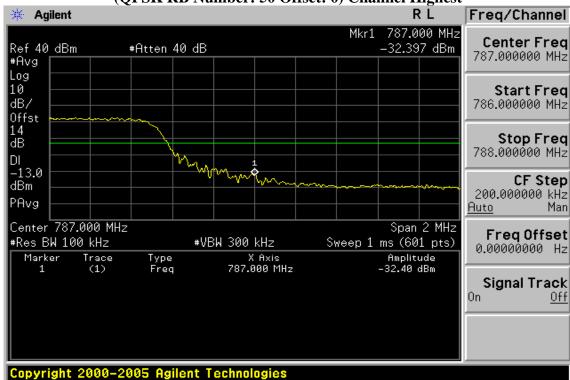
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Band edge emission at antenna terminals –10MHz BW LTE-Band 13 (QPSK RB Number: 50 Offset: 0) Channel Lowest



Band edge emission at antenna terminals –10MHz BW LTE-Band 13 (QPSK RB Number: 50 Offset: 0) Channel Highest



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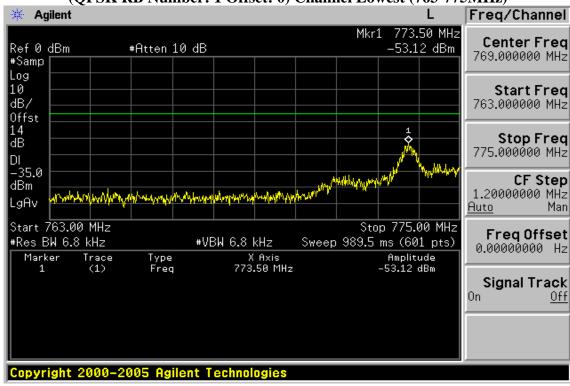
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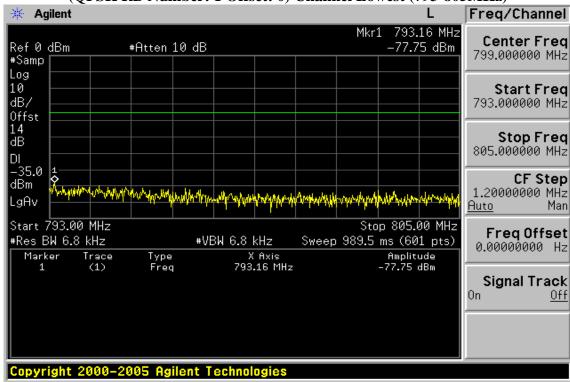
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Out of Band emission at antenna terminals-5MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 0) Channel Lowest (763-775MHz)



Out of Band emission at antenna terminals–5MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 0) Channel Lowest (793-805MHz)



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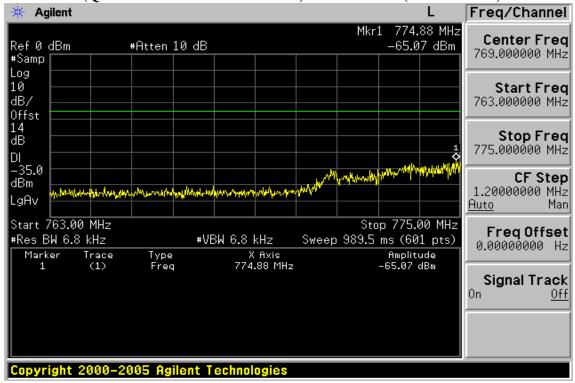
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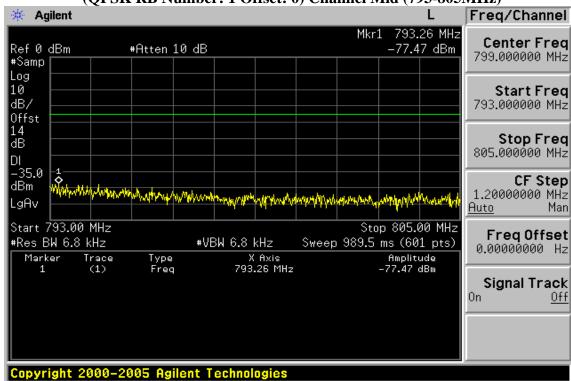
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Out of Band emission at antenna terminals –5MHz BW LTE-Band 13 (OPSK RB Number: 1 Offset: 0) Channel Mid (763-775MHz)



Out of Band emission at antenna terminals –5MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 0) Channel Mid (793-805MHz)



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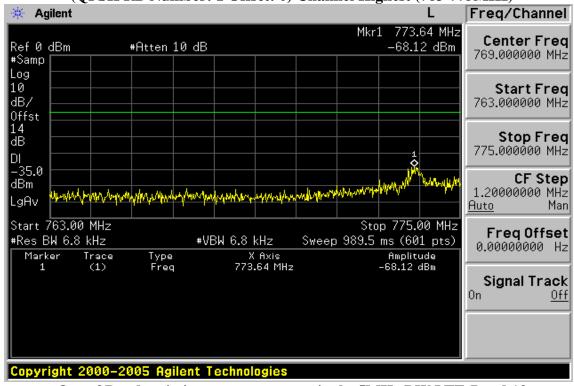
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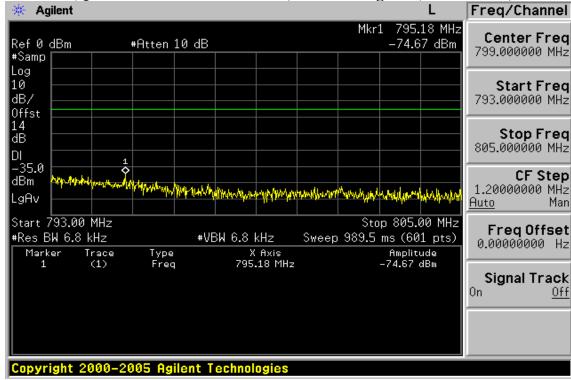
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Out of Band emission at antenna terminals-5MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 0) Channel Highest (763-775MHz)



Out of Band emission at antenna terminals-5MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 0) Channel Highest (793-805MHz)



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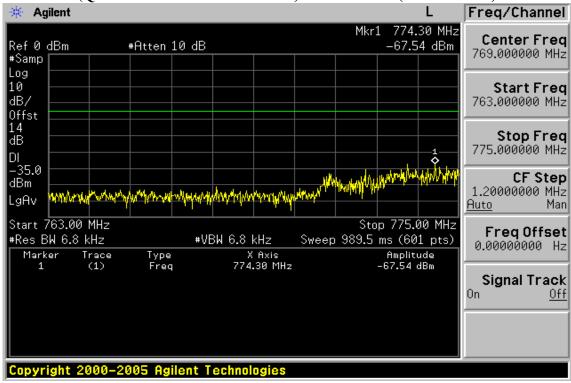
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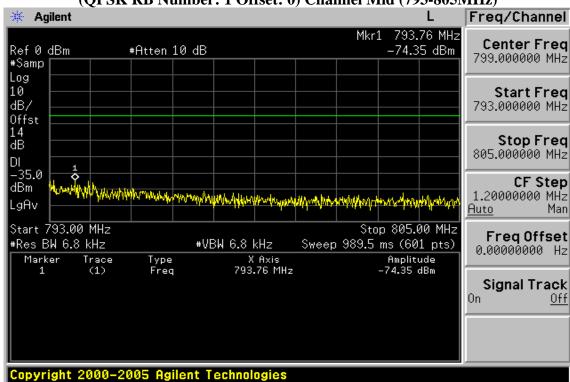
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Out of Band emission at antenna terminals–10MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 0) Channel Mid (763-775MHz)



Out of Band emission at antenna terminals—10MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 0) Channel Mid (793-805MHz)



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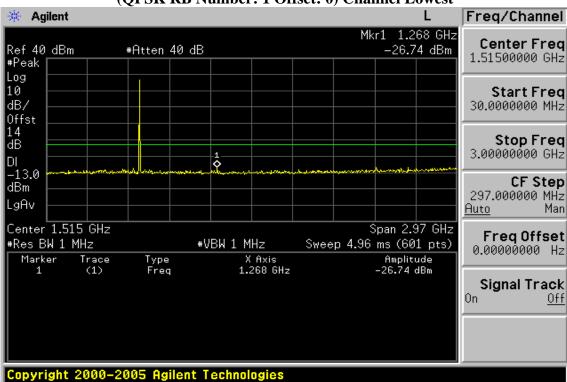
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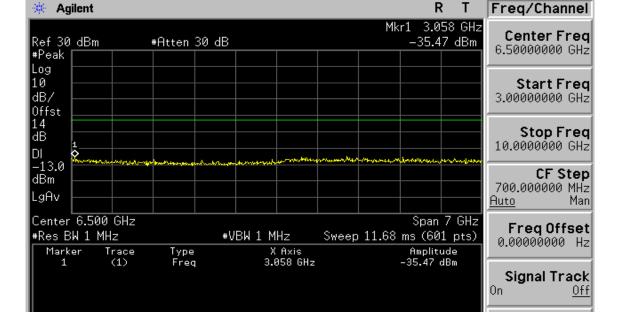


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Out of Band emission at antenna terminals-5MHz BW LTE-Band 17 (QPSK RB Number: 1 Offset: 0) Channel Lowest





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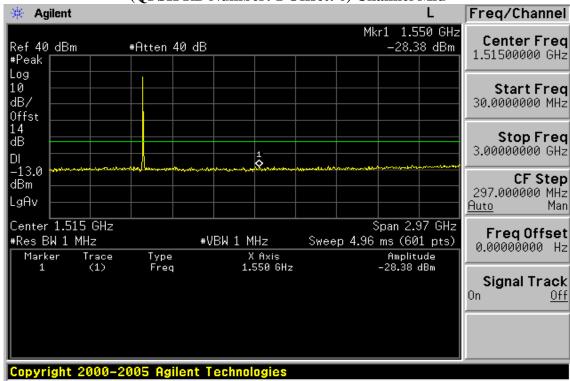
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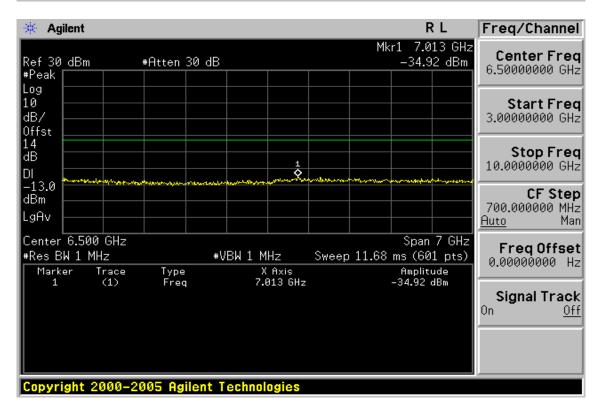


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Out of Band emission at antenna terminals-5MHz BW LTE-Band 17 (QPSK RB Number: 1 Offset: 0) Channel Mid





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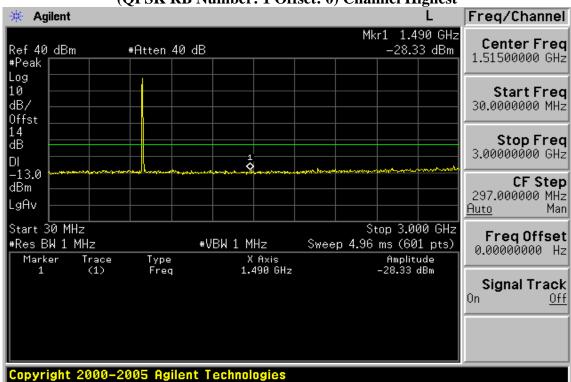
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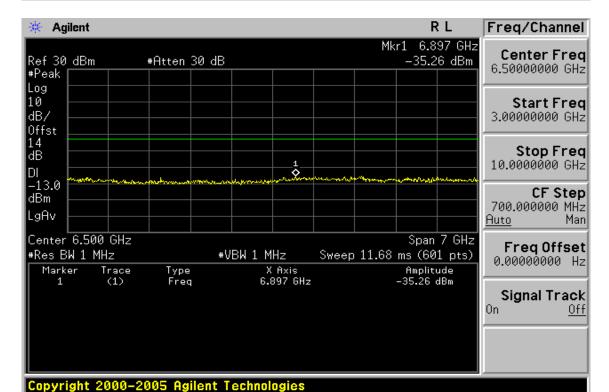


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Out of Band emission at antenna terminals-5MHz BW LTE-Band 17 (QPSK RB Number: 1 Offset: 0) Channel Highest





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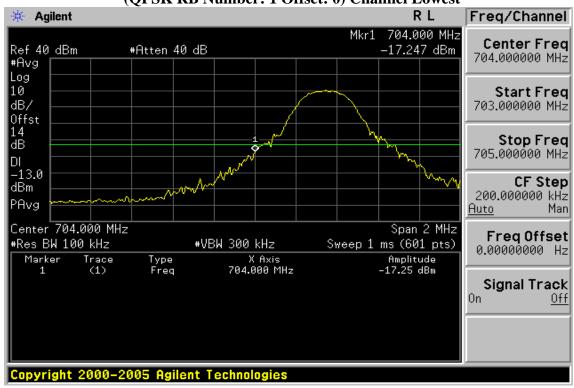
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Band edge emission at antenna terminals –5MHz BW LTE-Band 17 (QPSK RB Number: 1 Offset: 0) Channel Lowest



Band edge emission at antenna terminals –5MHz BW LTE-Band 17 (QPSK RB Number: 1 Offset: 24) Channel Highest



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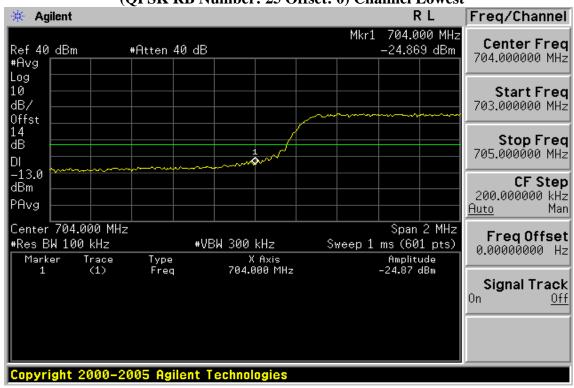
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Band edge emission at antenna terminals –5MHz BW LTE-Band 17 (QPSK RB Number: 25 Offset: 0) Channel Lowest



Band edge emission at antenna terminals –5MHz BW LTE-Band 17 (QPSK RB Number: 25 Offset: 0) Channel Highest



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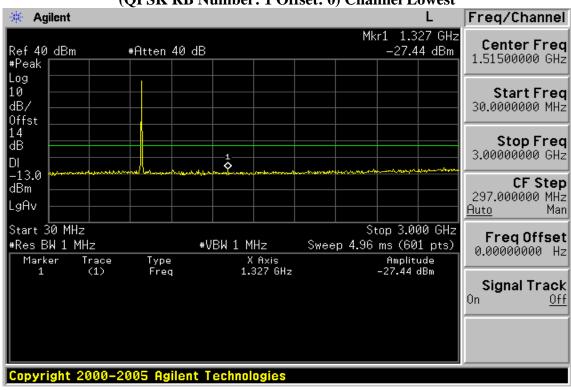
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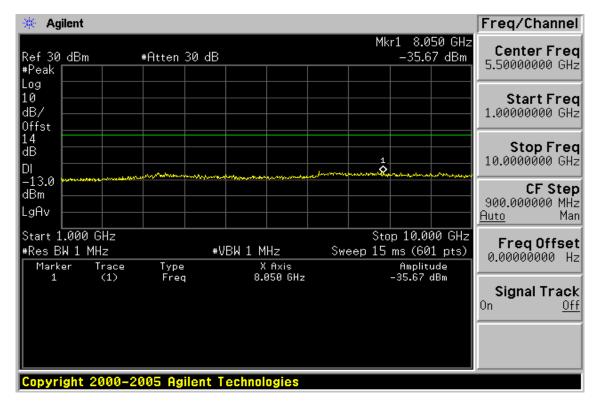


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Out of Band emission at antenna terminals-10MHz BW LTE-Band 17 (OPSK RB Number: 1 Offset: 0) Channel Lowest





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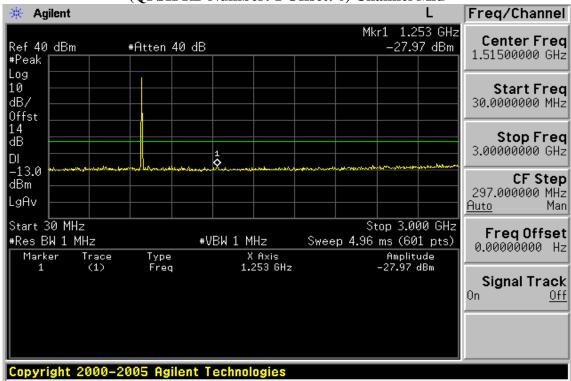
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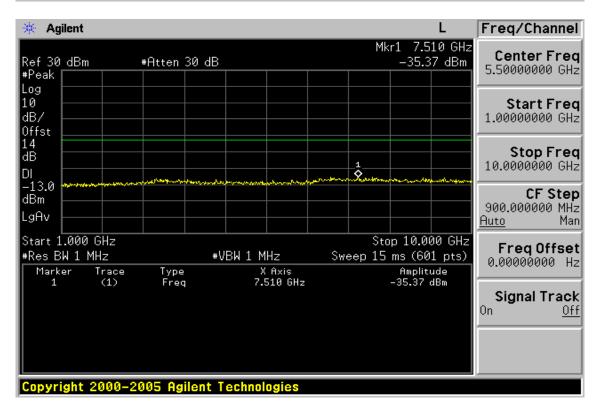


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Out of Band emission at antenna terminals–10MHz BW LTE-Band 17 (QPSK RB Number: 1 Offset: 0) Channel Mid





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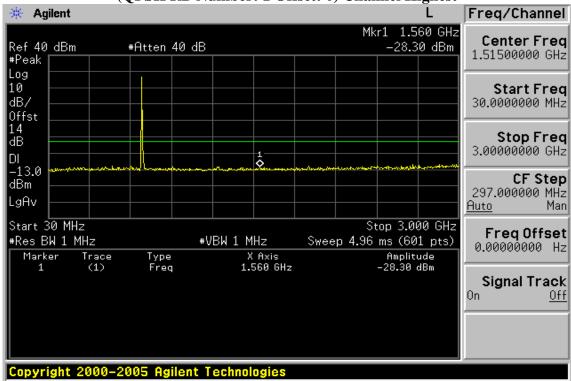
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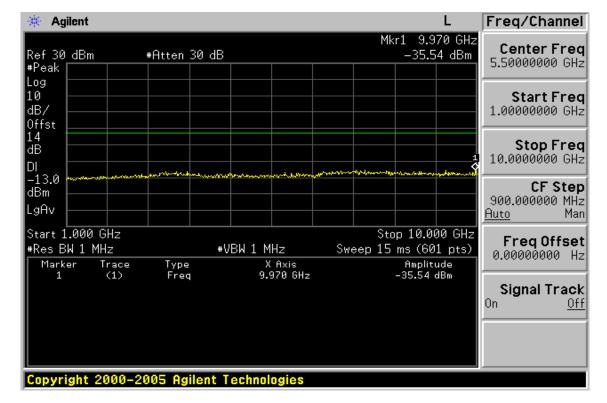
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Out of Band emission at antenna terminals–10MHz BW LTE-Band 17 (QPSK RB Number: 1 Offset: 0) Channel Highest







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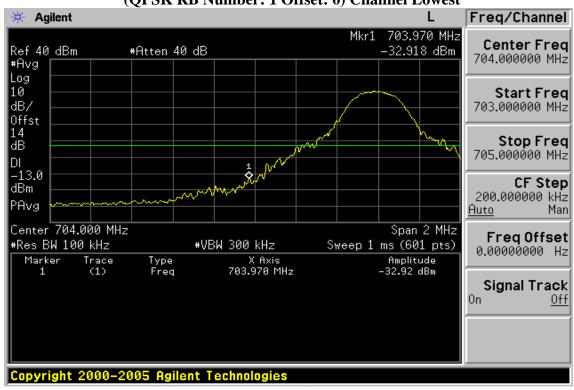
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Band edge emission at antenna terminals –10MHz BW LTE-Band 17 (QPSK RB Number: 1 Offset: 0) Channel Lowest



Band edge emission at antenna terminals –10MHz BW LTE-Band 17 (QPSK RB Number: 1 Offset: 49) Channel Highest



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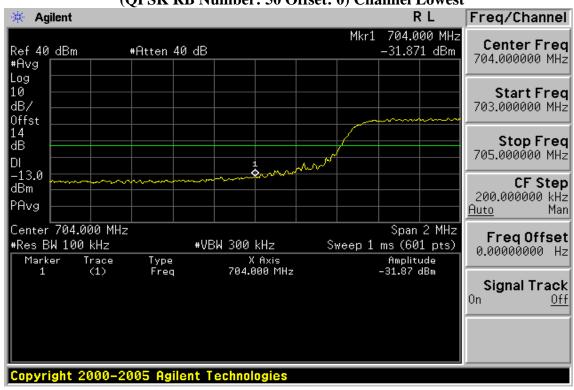
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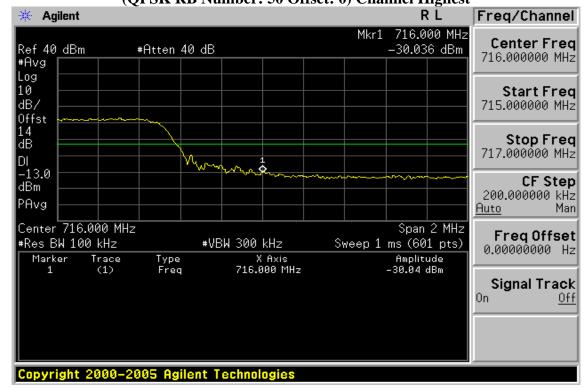
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Band edge emission at antenna terminals -10MHz BW LTE-Band 17 (QPSK RB Number: 50 Offset: 0) Channel Lowest



Band edge emission at antenna terminals -10MHz BW LTE-Band 17 (QPSK RB Number: 50 Offset: 0) Channel Highest



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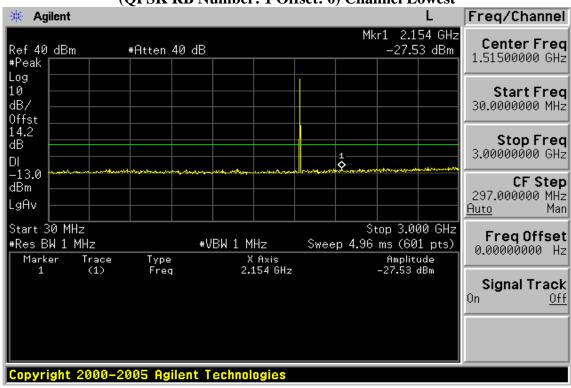
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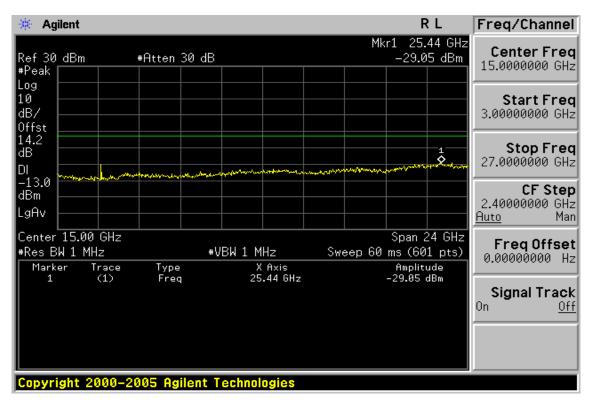


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Out of Band emission at antenna terminals-1.4MHz BW LTE-Band 25 (OPSK RB Number: 1 Offset: 0) Channel Lowest





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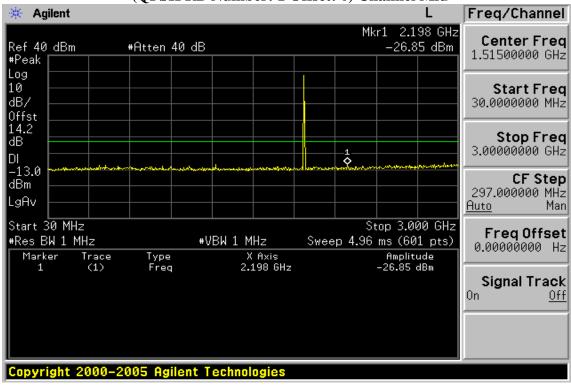
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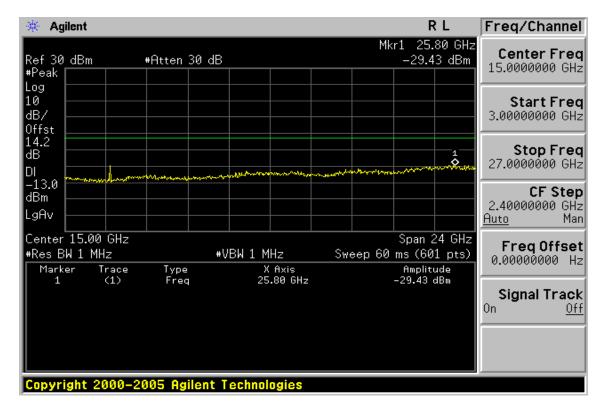


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Out of Band emission at antenna terminals –1.4MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 0) Channel Mid





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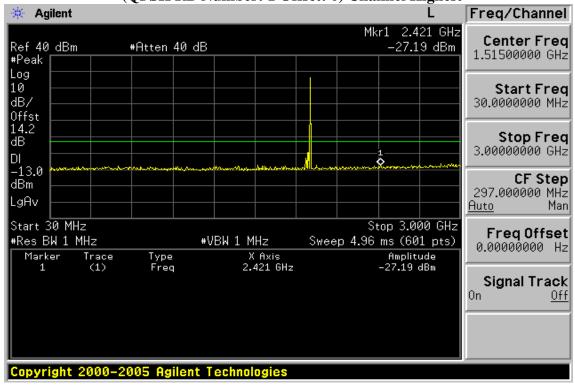
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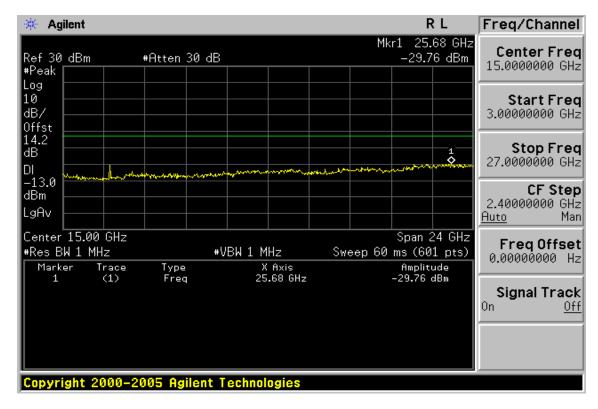


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Out of Band emission at antenna terminals—1.4MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 0) Channel Highest





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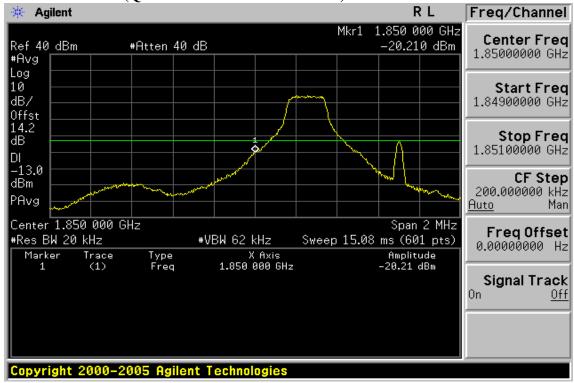
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Band edge emission at antenna terminals -1.4MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 0) Channel Lowest



Band edge emission at antenna terminals –1.4MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 5) Channel Highest



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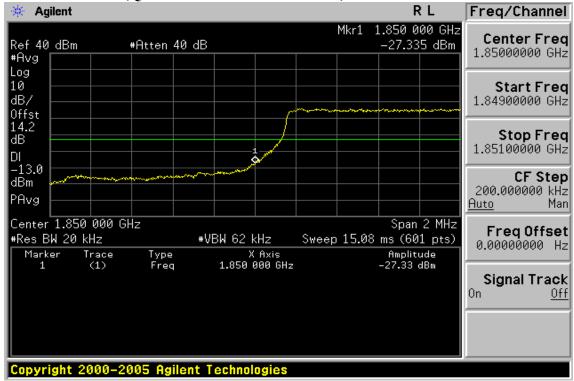
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Band edge emission at antenna terminals –1.4MHz BW LTE-Band 25 (QPSK RB Number: 6 Offset: 0) Channel Lowest



Band edge emission at antenna terminals –1.4MHz BW LTE-Band 25 (QPSK RB Number: 6 Offset: 0) Channel Highest



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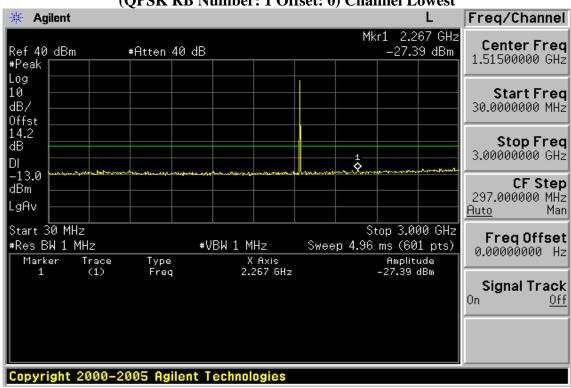
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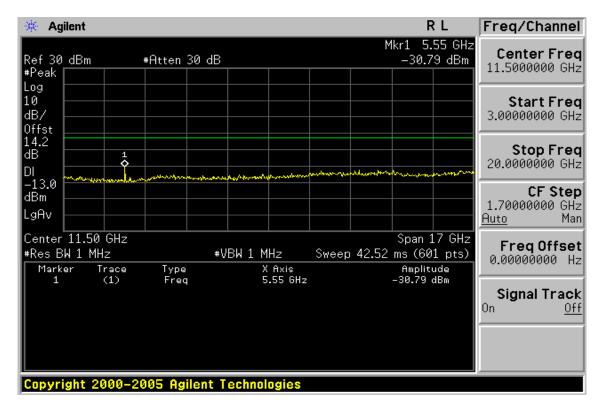


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Out of Band emission at antenna terminals-3MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 0) Channel Lowest





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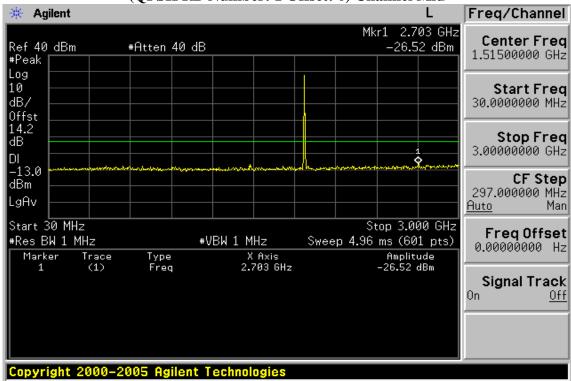
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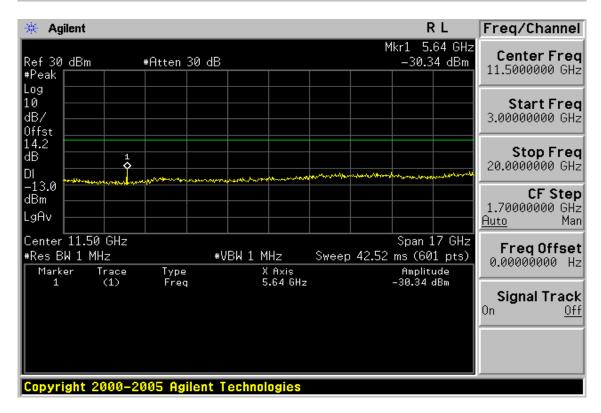


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Out of Band emission at antenna terminals-3MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 0) Channel Mid





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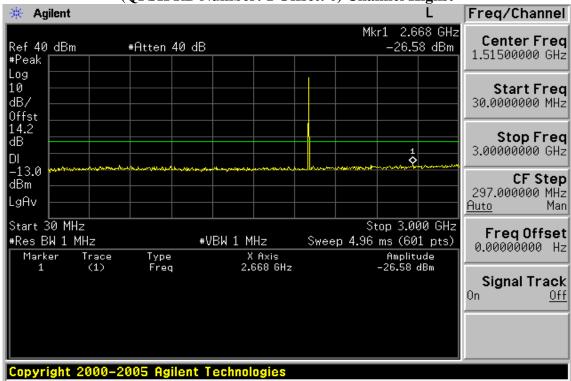
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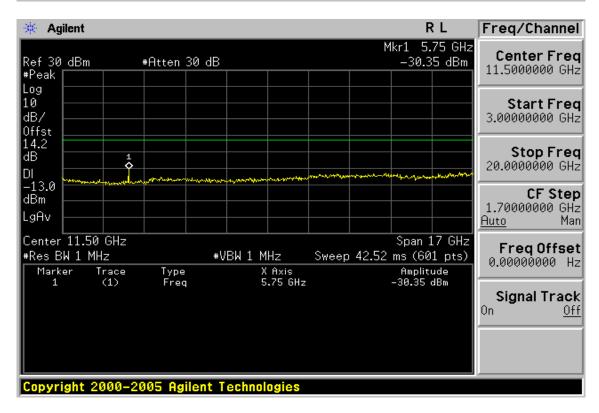


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Out of Band emission at antenna terminals-3MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 0) Channel Highst





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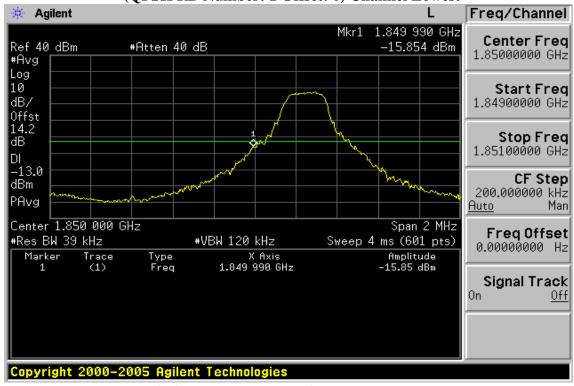
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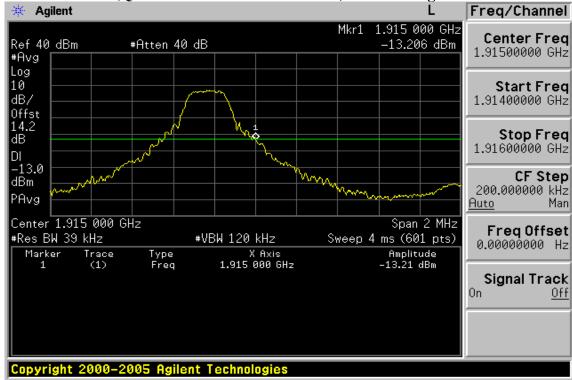
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Band edge emission at antenna terminals –3MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 0) Channel Lowest



Band edge emission at antenna terminals –3MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 14) Channel Highest



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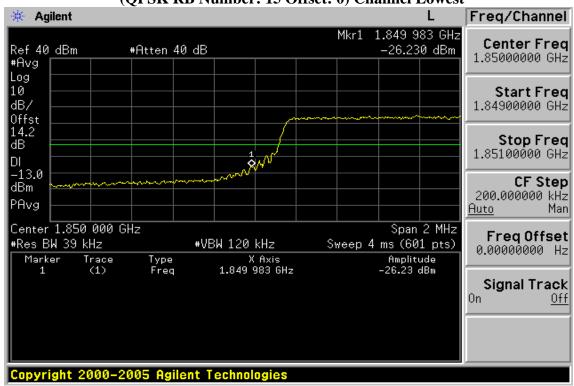
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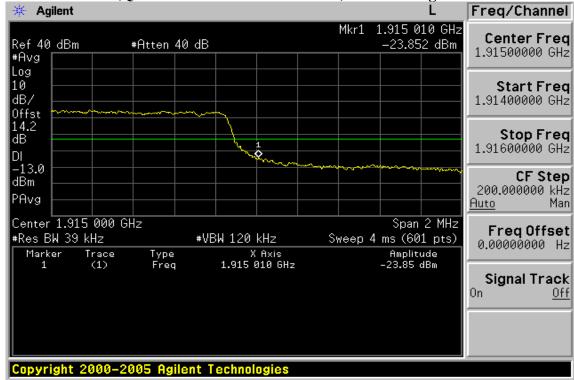
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Band edge emission at antenna terminals –3MHz BW LTE-Band 25 (QPSK RB Number: 15 Offset: 0) Channel Lowest



Band edge emission at antenna terminals –3MHz BW LTE-Band 25 (QPSK RB Number: 15 Offset: 0) Channel Highest



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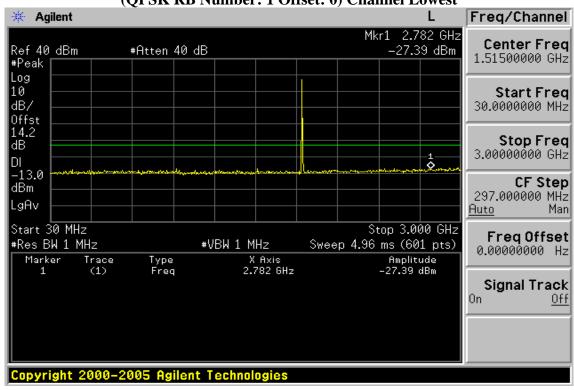
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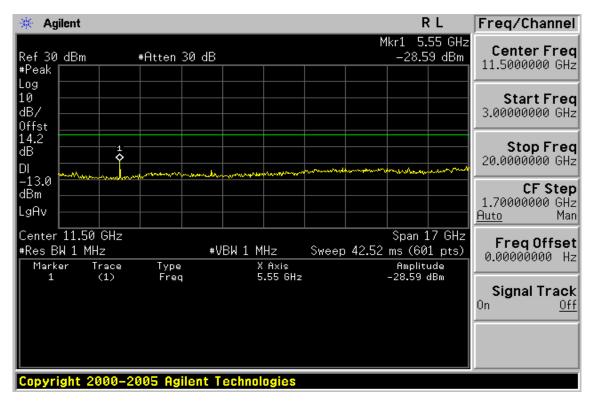


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Out of Band emission at antenna terminals-5MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 0) Channel Lowest





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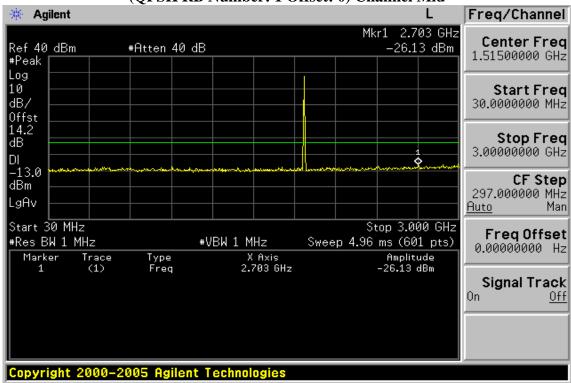
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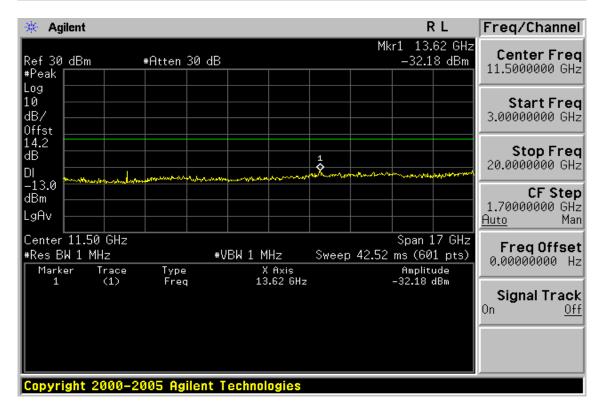


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Out of Band emission at antenna terminals-5MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 0) Channel Mid





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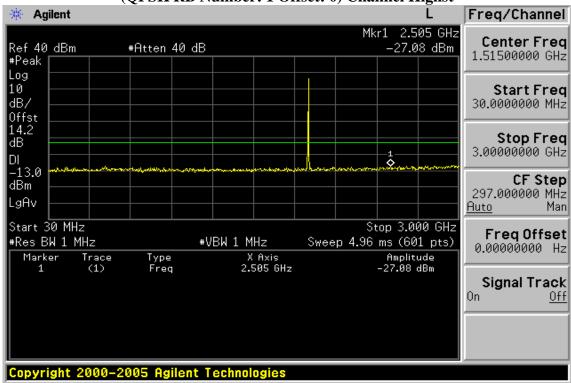
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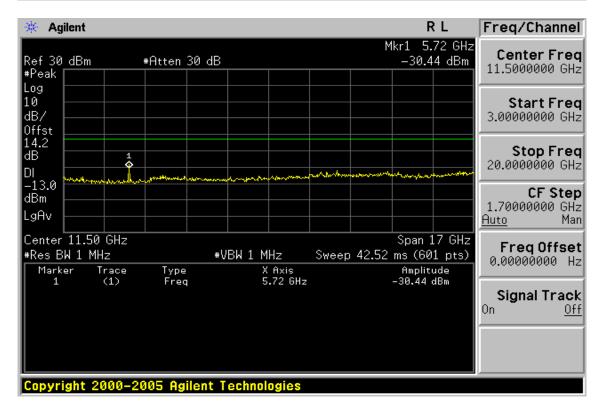


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Out of Band emission at antenna terminals-5MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 0) Channel Highst





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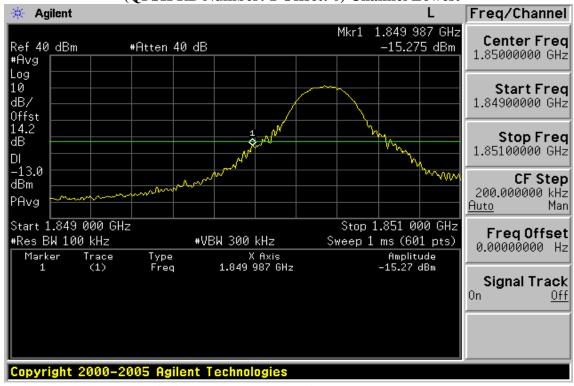
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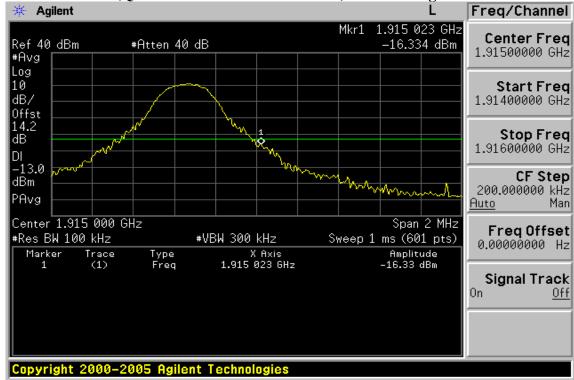
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Band edge emission at antenna terminals –5MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 0) Channel Lowest



Band edge emission at antenna terminals –5MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 24) Channel Highest



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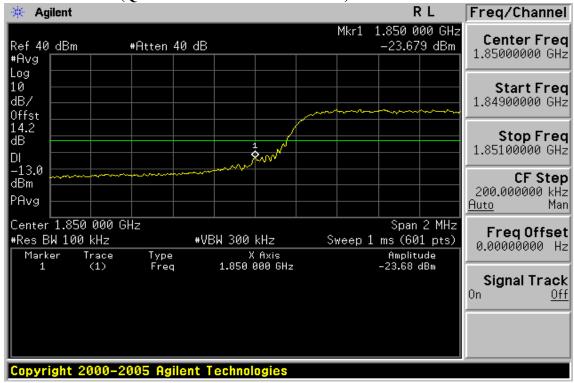
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Band edge emission at antenna terminals –5MHz BW LTE-Band 25 (QPSK RB Number: 25 Offset: 0) Channel Lowest



Band edge emission at antenna terminals –5MHz BW LTE-Band 25 (QPSK RB Number: 25 Offset: 0) Channel Highest



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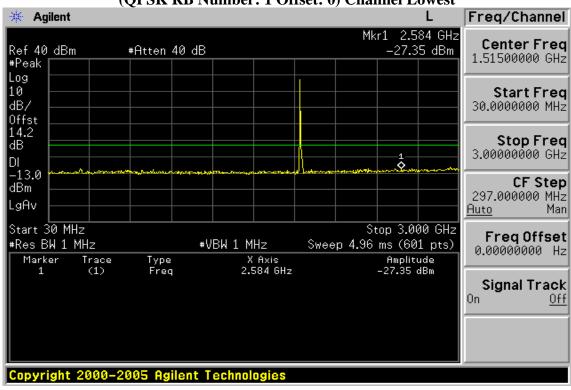
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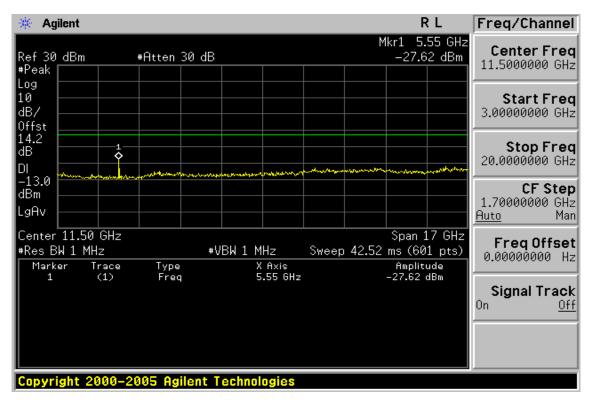


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Out of Band emission at antenna terminals-10MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 0) Channel Lowest





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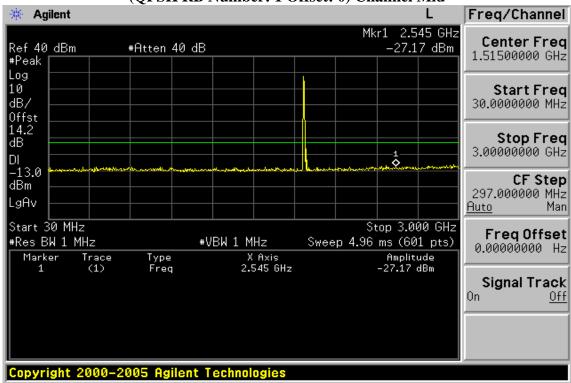
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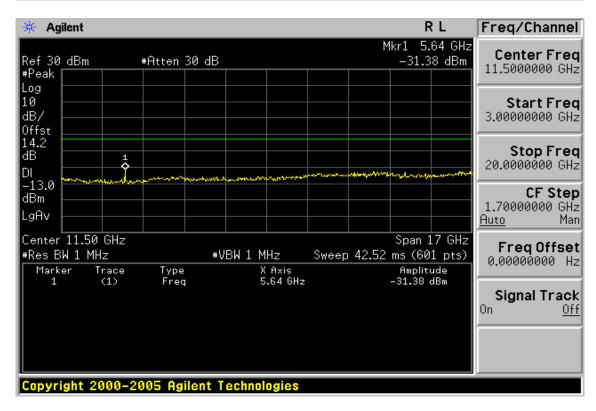


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Out of Band emission at antenna terminals-10MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 0) Channel Mid





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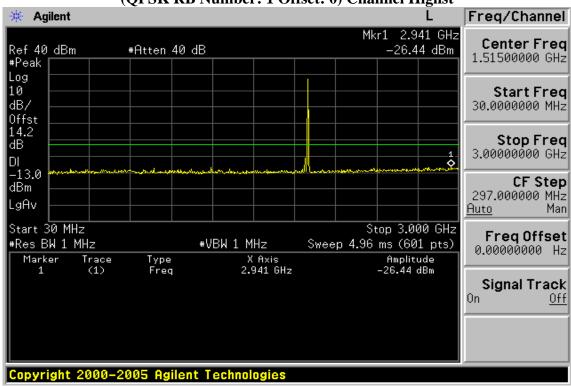
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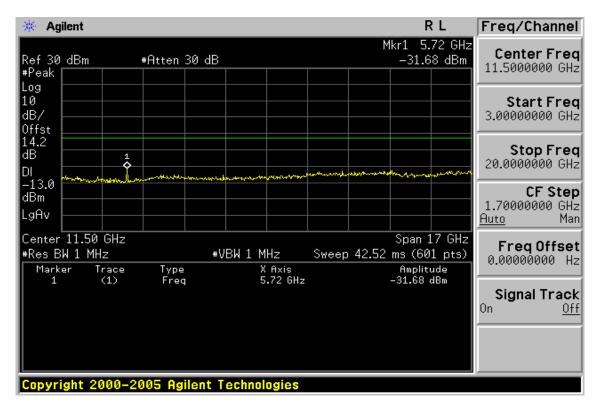


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Out of Band emission at antenna terminals-10MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 0) Channel Highst





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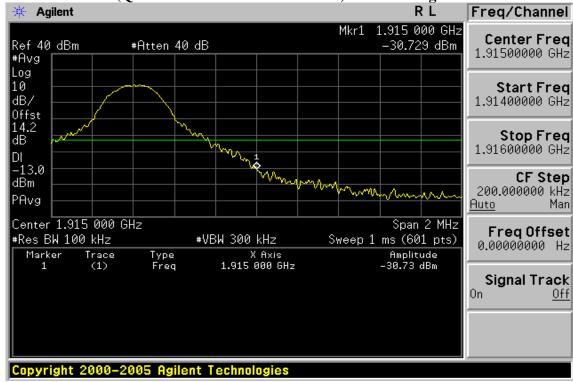
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Band edge emission at antenna terminals –10MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 0) Channel Lowest



Band edge emission at antenna terminals –10MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 49) Channel Highest



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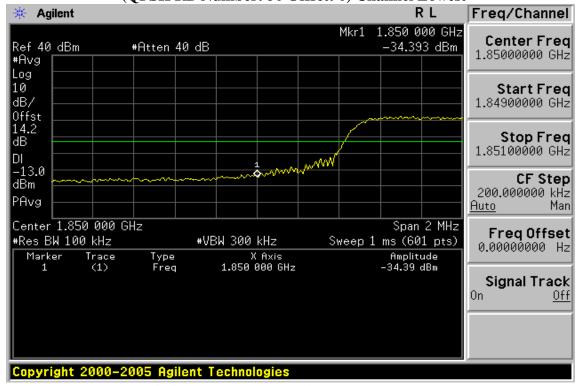
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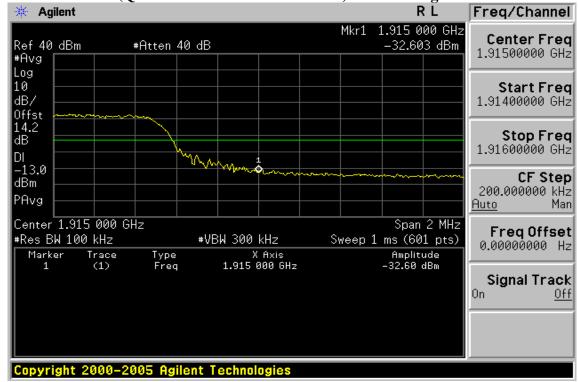
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Band edge emission at antenna terminals –10MHz BW LTE-Band 25 (QPSK RB Number: 50 Offset: 0) Channel Lowest



Band edge emission at antenna terminals –10MHz BW LTE-Band 25 (QPSK RB Number: 50 Offset: 0) Channel Highest



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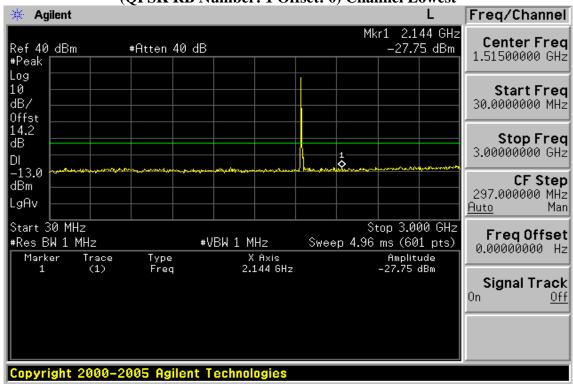
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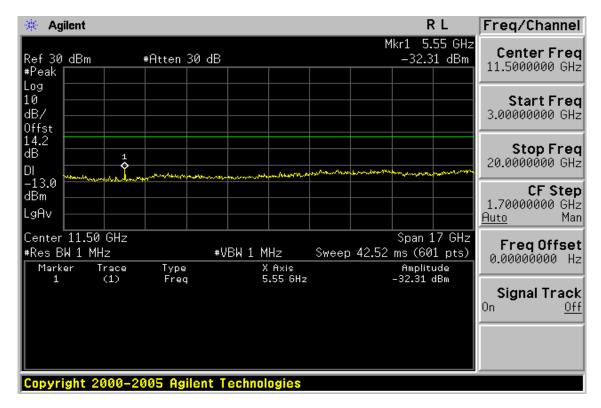


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Out of Band emission at antenna terminals-15MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 0) Channel Lowest





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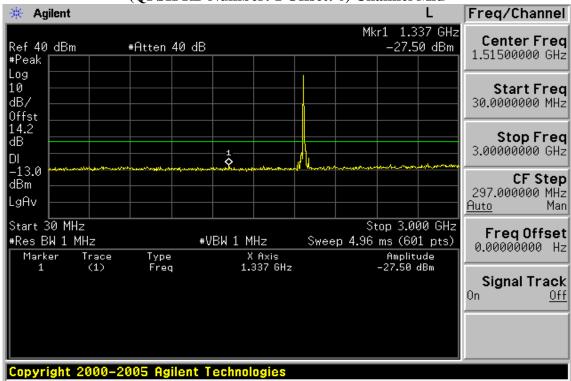
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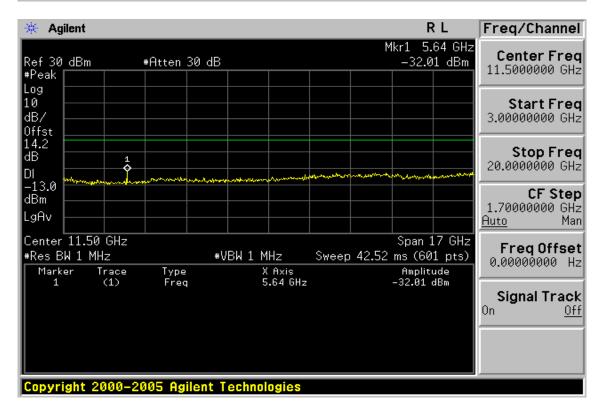


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Out of Band emission at antenna terminals-15MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 0) Channel Mid





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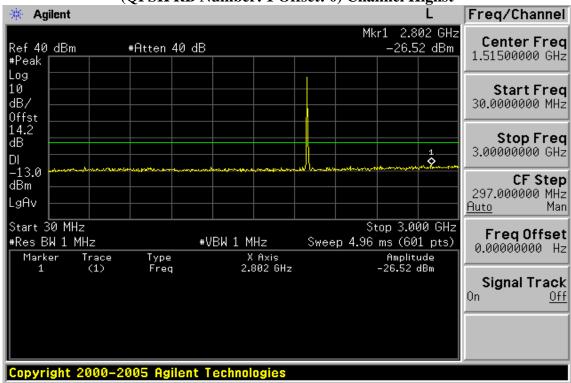
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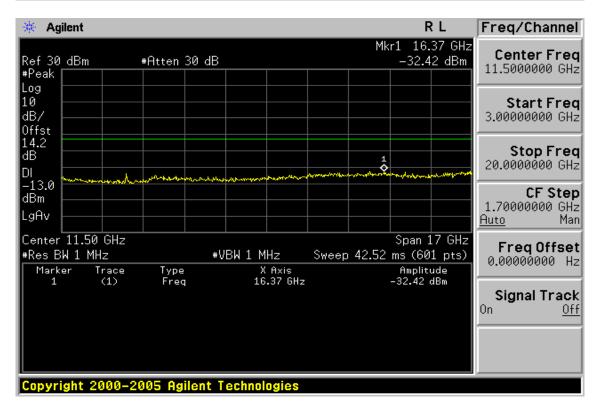


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Out of Band emission at antenna terminals-15MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 0) Channel Highst





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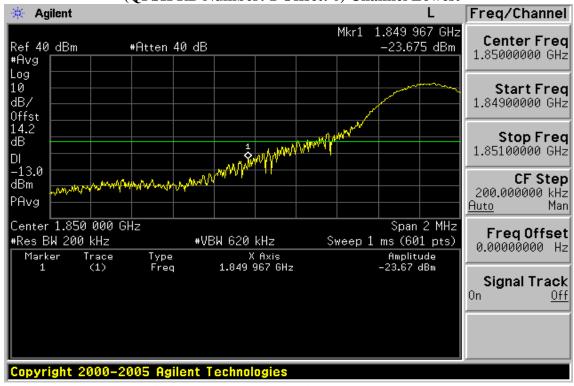
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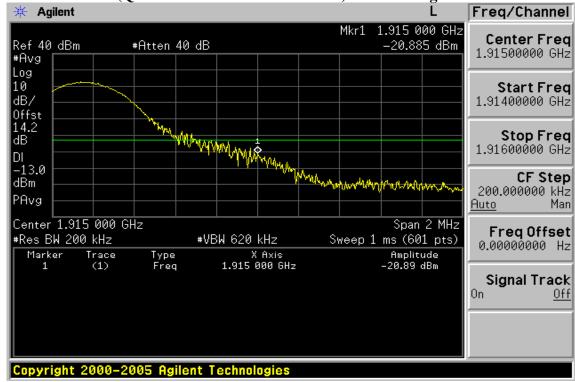
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Band edge emission at antenna terminals -15MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 0) Channel Lowest



Band edge emission at antenna terminals –15MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 74) Channel Highest



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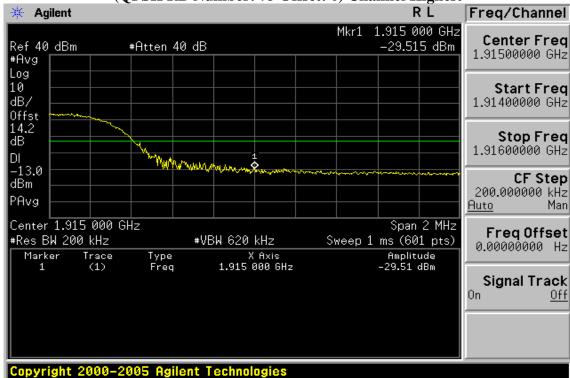
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Band edge emission at antenna terminals -15MHz BW LTE-Band 25 (QPSK RB Number: 75 Offset: 0) Channel Lowest



Band edge emission at antenna terminals –15MHz BW LTE-Band 25 (QPSK RB Number: 75 Offset: 0) Channel Highest



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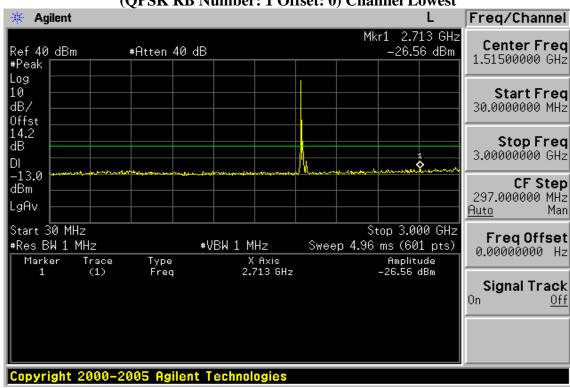
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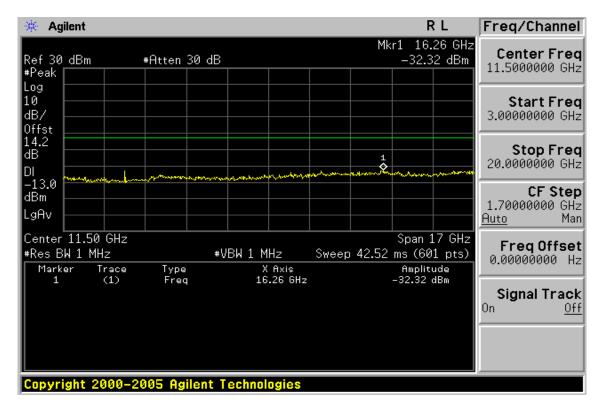


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Out of Band emission at antenna terminals-20MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 0) Channel Lowest





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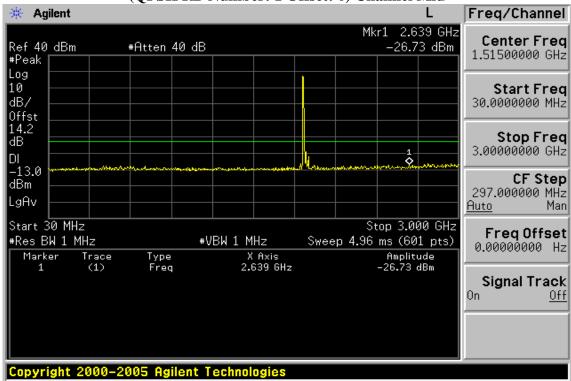
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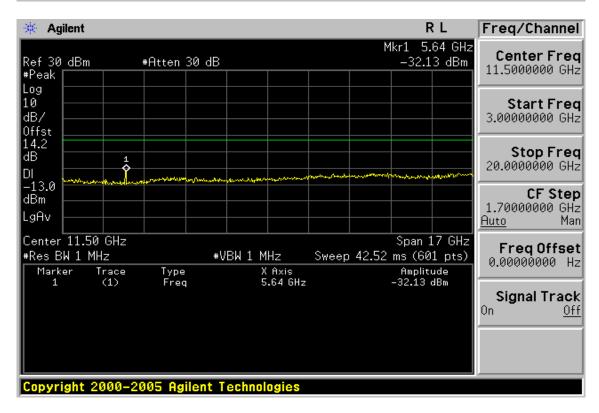


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Out of Band emission at antenna terminals-20MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 0) Channel Mid





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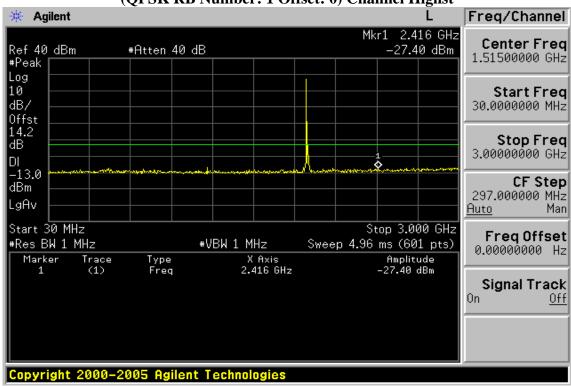
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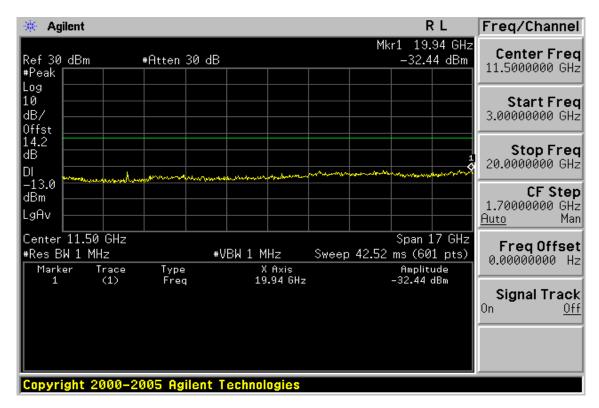


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Out of Band emission at antenna terminals-20MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 0) Channel Highst





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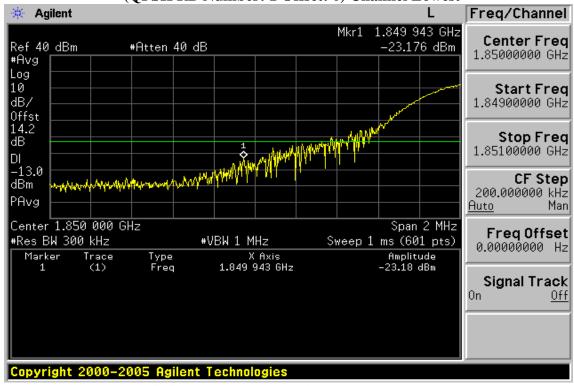
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Band edge emission at antenna terminals -20MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 0) Channel Lowest



Band edge emission at antenna terminals –20MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 99) Channel Highest



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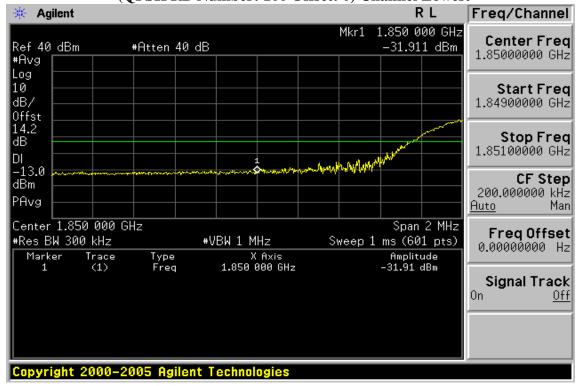
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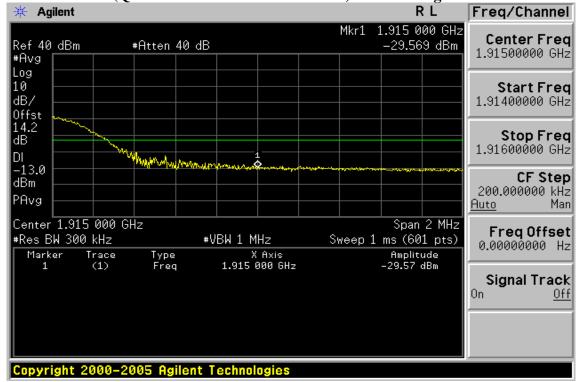
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Band edge emission at antenna terminals -20MHz BW LTE-Band 25 (QPSK RB Number: 100 Offset: 0) Channel Lowest



Band edge emission at antenna terminals –20MHz BW LTE-Band 25 (QPSK RB Number: 100 Offset: 0) Channel Highest



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10. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

10.1. Standard Applicable

According to FCC §2.1053,

FCC §22.917(a), §24.238(a), §27.53(g)(h), §90.691(a)(1)the magnitude of each spurious and harmonic emission that can be detected when the equipment is operated under the conditions specified in the instruction manual and/ or alignment procedure, shall not be less than 43 + 10 log (mean output power in watts) dBc below the mean power output outside a license's frequency block (-13dBm).

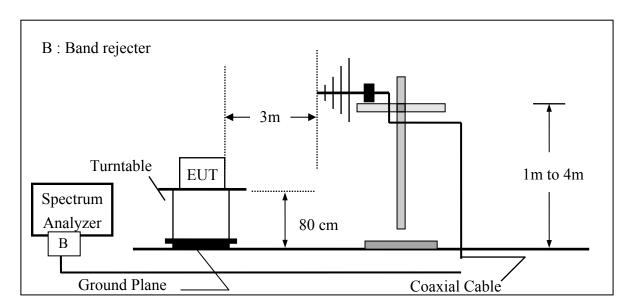
FCC §27.53 (m) (4) shall not be less than 55 +10log(mean output power in watt) dBc below the mean power output outside a license's frequency block (-25dBm).

\$27.53 (c) (4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations;

§27.53 (f) For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

10.2. EUT Setup

(A) Radiated Emission Test Set-Up, Frequency form 30MHz to 1000MHz.



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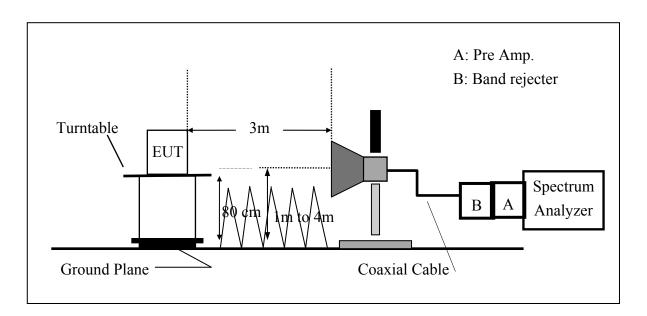
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(B) Radiated Emission Test Set-UP Frequency Over 1 GHz



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= S.G. output (dBm) + Antenna Gain (dBd) – Cable Loss (dB)

EIRP = S.G. output (dBm) + Antenna Gain (dBi) - Cable Loss (dB)

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

"F": denotes Fundamental Frequency.; "H": denotes Harmonic Frequency. Note:

"E": denotes Band Edge Frequency.; "S": denotes Spurious Frequency.

"---": denotes Noise Floor.

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10.4. Measurement Equipment Used:

ERP,	EIRP MEASUREM	ENT EQUIPM	ENT List 966	Chamber	
EQUIPMENT TYPE	MFR	MODEL	SERIAL	LAST CAL.	CAL DUE.
		NUMBER	NUMBER		
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	12/22/2014	12/21/2015
Bilog Antenna	SCHWAZBECK	VULB9168	378	12/23/2014	12/22/2015
Bilog Antenna	SCHWAZBECK	VULB9160	3158	10/31/2014	10/30/2015
Horn antenna	ETS.LINDGREN	3117	123995	05/05/2015	05/04/2016
Horn antenna	ETS.LINDGREN	3117	123991	12/19/2014	12/18/2015
Horn Antenna	Schwarzbeck	BBHA9170	184	12/25/2014	12/24/2015
Horn Antenna	Schwarzbeck	BBHA9170	185	07/29/2014	07/28/2015
Network Analyze	Anritsu	MS4644A	1216312	05/23/2015	05/22/2016
Signal Generator	Agilent	E4438C	MY45093613	08/06/2014	08/05/2015
Pre-Amplifier	Agilent	8447D	1937A02834	01/02/2015	01/01/2016
Pre-Amplifier	Agilent	8449B	3008A00578	01/02/2015	01/01/2016
Pre-Amplifier	EMC Instruments Corp.	EMC184045	980135	01/02/2015	01/01/2016
Attenuator	Mini-Circuit	BW-S10W2+	004	01/02/2015	01/01/2016
Radio Communication Analyzer	R&S	CMU200	102189	02/11/2015	02/10/2016
Radio Communication Analyzer	Anritsu	MT8820C	6200995019	10/08/2014	10/09/2015
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	HD	MA240-N	240/657	N.C.R	N.C.R
Controller	HD	HD100	N/A	N.C.R	N.C.R
Low Loss Cable	HUBER+SUHNER	966_Tx	10m	01/02/2015	01/01/2016
Low Loss Cable	HUBER+SUHNER	966_Rx	3m	01/02/2015	01/01/2016
Filter 800-1000	Micro-Tronics	EWT	M2	01/02/2015	01/01/2016
Filter 1800-2000	Micro-Tronics	EWT	M2	01/02/2015	01/01/2016
Filter 1700-1800	Micro-Tronics	BRC15751	001	01/02/2015	01/01/2016
1GHz High Pass Filter	Micro-Tronics	HPM50108	32	01/02/2015	01/01/2016
2GHz High Pass Filter	Micro-Tronics	HPM50110	36	01/02/2015	01/01/2016
3m Site NSA	SGS	966 chamber	N/A	07/15/2014	07/14/2015

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10.5. Measurement Result:

Radiated Spurious Emission Measurement Result: GPRS 850 Mode

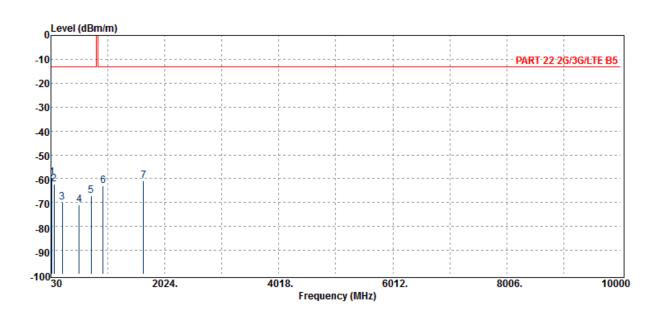
:2015-04-08 **ARFCN** :CH 128 Test Date

Operation Band :GPRS 850 Temp./Humi. :23 deg C / 53 RH

Fundamental Frequency :824.2 MHz Engineer :Curry

Operation Mode :TX LOW

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



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
48.43	S	-59.40	-46.78	-11.72	-0.90	-13.00	-46.40
85.29	S	-62.35	-59.78	-1.50	-1.07	-13.00	-49.35
231.76	S	-69.86	-71.59	3.31	-1.58	-13.00	-56.86
525.67	S	-70.87	-72.09	3.67	-2.44	-13.00	-57.87
735.19	S	-67.11	-67.76	3.31	-2.66	-13.00	-54.11
942.77	S	-63.05	-63.09	3.24	-3.19	-13.00	-50.05
1648.40	Н	-60.84	-59.69	3.05	-4.21	-13.00	-47.84

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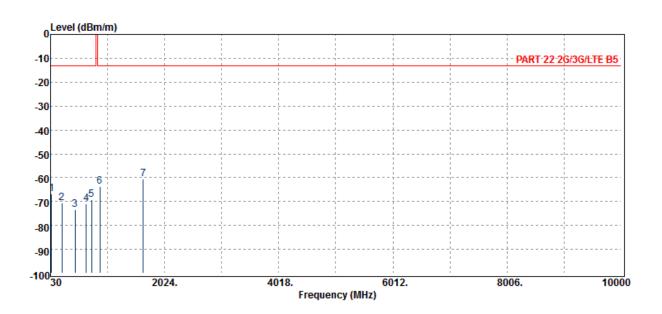
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ARFCN :CH 128 **Test Date** :2015-04-08

:GPRS 850 Temp./Humi. :23 deg C / 53 RH **Operation Band**

Fundamental Frequency :824.2 MHz Engineer :Curry Operation Mode :TX LOW

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



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
50.37	S	-66.68	-54.44	-11.33	-0.91	-13.00	-53.68
228.85	S	-70.53	-72.27	3.32	-1.58	-13.00	-57.53
459.71	S	-73.39	-74.72	3.43	-2.09	-13.00	-60.39
652.74	S	-70.89	-71.86	3.62	-2.65	-13.00	-57.89
746.83	S	-69.27	-69.87	3.29	-2.69	-13.00	-56.27
890.39	S	-63.67	-63.86	3.30	-3.11	-13.00	-50.67
1648.40	Н	-60.65	-59.50	3.05	-4.21	-13.00	-47.65

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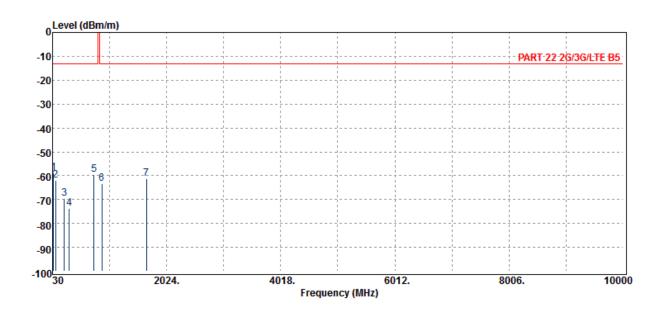
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ARFCN :CH 190 **Test Date** :2015-04-08

:GPRS 850 Temp./Humi. :23 deg C / 53 RH **Operation Band**

Fundamental Frequency :836.6 MHz Engineer :Curry Operation Mode :TX MID

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



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
48.43	S	-58.71	-46.10	-11.72	-0.90	-13.00	-45.71
85.29	S	-61.88	-59.31	-1.50	-1.07	-13.00	-48.88
232.73	S	-69.58	-71.30	3.31	-1.59	-13.00	-56.58
323.91	S	-73.70	-75.52	3.69	-1.88	-13.00	-60.70
758.47	S	-59.51	-60.10	3.31	-2.72	-13.00	-46.51
891.36	S	-63.35	-63.53	3.30	-3.12	-13.00	-50.35
1673.20	Н	-61.08	-59.83	3.01	-4.26	-13.00	-48.08

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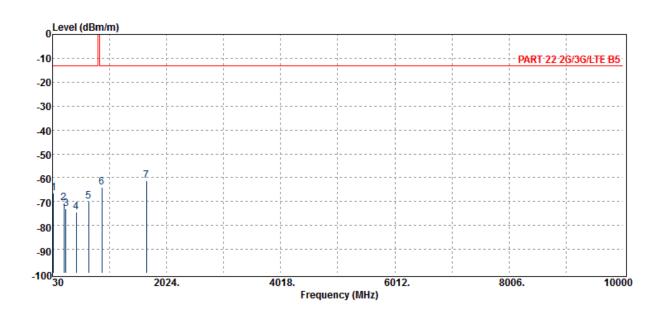
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ARFCN :CH 190 **Test Date** :2015-04-08

:GPRS 850 Temp./Humi. :23 deg C / 53 RH **Operation Band**

Fundamental Frequency :836.6 MHz Engineer :Curry Operation Mode :TX MID

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



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
48.43	S	-66.45	-53.84	-11.72	-0.90	-13.00	-53.45
229.82	S	-70.62	-72.36	3.31	-1.58	-13.00	-57.62
262.80	S	-72.88	-74.86	3.66	-1.67	-13.00	-59.88
442.25	S	-74.40	-75.75	3.39	-2.04	-13.00	-61.40
660.50	S	-70.00	-70.93	3.58	-2.65	-13.00	-57.00
891.36	S	-63.95	-64.13	3.30	-3.12	-13.00	-50.95
1673.20	Н	-61.19	-59.94	3.01	-4.26	-13.00	-48.19

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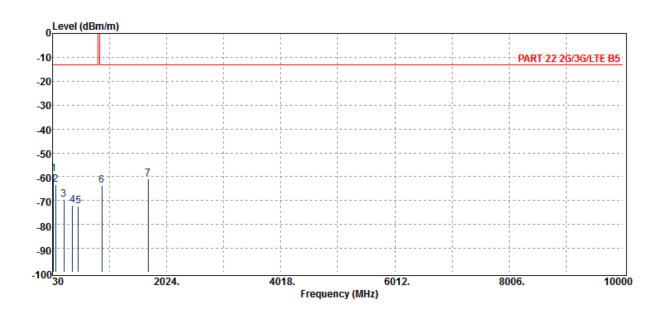
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ARFCN :CH 251 **Test Date** :2015-04-08

:GPRS 850 Temp./Humi. :23 deg C / 53 RH **Operation Band**

Fundamental Frequency :848.8 MHz Engineer :Curry Operation Mode :TX HIGH

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



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
48.43	S	-58.97	-46.36	-11.72	-0.90	-13.00	-45.97
84.32	S	-63.20	-60.42	-1.72	-1.07	-13.00	-50.20
231.76	S	-69.69	-71.41	3.31	-1.58	-13.00	-56.69
378.23	S	-71.90	-73.62	3.68	-1.95	-13.00	-58.90
481.05	S	-72.16	-73.58	3.61	-2.19	-13.00	-59.16
892.33	S	-63.77	-63.95	3.30	-3.12	-13.00	-50.77
1697.60	Н	-60.89	-59.58	2.96	-4.28	-13.00	-47.89

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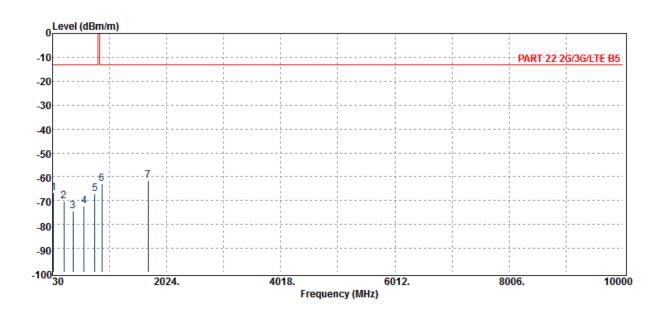
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ARFCN :CH 251 **Test Date** :2015-04-08

:GPRS 850 Temp./Humi. :23 deg C / 53 RH **Operation Band**

Fundamental Frequency :848.8 MHz Engineer :Curry Operation Mode :TX HIGH

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



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
47.46	S	-66.79	-54.00	-11.89	-0.89	-13.00	-53.79
230.79	S	-70.17	-71.91	3.31	-1.58	-13.00	-57.17
389.87	S	-74.42	-76.12	3.65	-1.95	-13.00	-61.42
579.99	S	-72.22	-73.00	3.50	-2.72	-13.00	-59.22
771.08	S	-67.24	-67.84	3.35	-2.75	-13.00	-54.24
891.36	S	-63.05	-63.24	3.30	-3.12	-13.00	-50.05
1697.60	Н	-61.44	-60.12	2.96	-4.28	-13.00	-48.44

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Radiated Spurious Emission Measurement Result: GPRS 1900 Mode

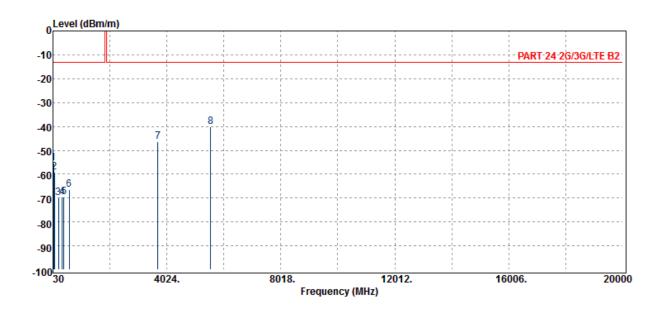
:CH 512 **Test Date** :2015-04-08 **ARFCN**

Operation Band :GPRS 1900 Temp./Humi. :23 deg C / 53 RH

Fundamental Frequency :1850.2 MHz Engineer :Curry

Operation Mode :TX LOW

EUT Pol. :E1 Plane Measurement Antenna Pol. :VERTICAL



Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
47.46	S	-55.23	-44.60	-9.74	-0.89	-13.00	-42.23
86.26	S	-59.32	-59.12	0.88	-1.08	-13.00	-46.32
227.88	S	-70.06	-73.95	5.47	-1.57	-13.00	-57.06
359.80	S	-69.40	-73.32	5.88	-1.96	-13.00	-56.40
415.09	S	-69.65	-73.37	5.68	-1.96	-13.00	-56.65
601.33	S	-66.51	-69.36	5.60	-2.74	-13.00	-53.51
3700.40	Н	-46.53	-48.07	8.43	-6.88	-13.00	-33.53
5550.60	Н	-40.04	-41.59	10.10	-8.55	-13.00	-27.04

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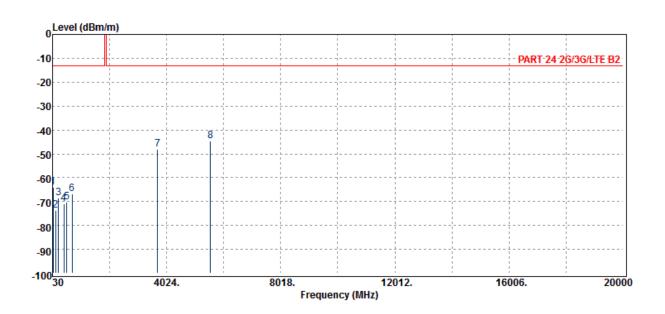
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ARFCN :CH 512 **Test Date** :2015-04-08

:GPRS 1900 Temp./Humi. :23 deg C / 53 RH **Operation Band**

Fundamental Frequency :1850.2 MHz Engineer :Curry Operation Mode :TX LOW

EUT Pol. :E1 Plane Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
48.43	S	-64.04	-53.58	-9.57	-0.90	-13.00	-51.04
139.61	S	-73.55	-71.77	-0.45	-1.33	-13.00	-60.55
243.40	S	-68.56	-72.43	5.49	-1.62	-13.00	-55.56
432.55	S	-70.90	-74.47	5.59	-2.01	-13.00	-57.90
526.64	S	-70.29	-73.66	5.82	-2.45	-13.00	-57.29
723.55	S	-66.90	-69.75	5.48	-2.63	-13.00	-53.90
3700.40	Н	-48.19	-49.73	8.43	-6.88	-13.00	-35.19
5550.60	Н	-44.76	-46.31	10.10	-8.55	-13.00	-31.76

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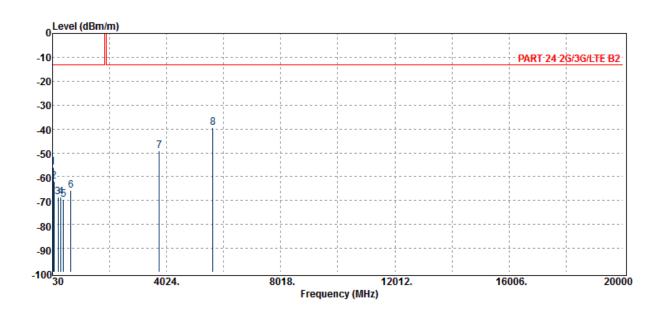
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ARFCN :CH 661 **Test Date** :2015-04-08

:GPRS 1900 Temp./Humi. :23 deg C / 53 RH **Operation Band**

Fundamental Frequency :1880 MHz Engineer :Curry Operation Mode :TX MID

EUT Pol. :E1 Plane Measurement Antenna Pol. :VERTICAL



Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
48.43	S	-56.09	-45.63	-9.57	-0.90	-13.00	-43.09
86.26	S	-61.91	-61.71	0.88	-1.08	-13.00	-48.91
231.76	S	-68.35	-72.23	5.46	-1.58	-13.00	-55.35
324.88	S	-68.44	-72.41	5.84	-1.88	-13.00	-55.44
415.09	S	-69.45	-73.17	5.68	-1.96	-13.00	-56.45
671.17	S	-65.72	-68.76	5.68	-2.64	-13.00	-52.72
3760.00	Н	-49.13	-50.57	8.46	-7.02	-13.00	-36.13
5640.00	Н	-39.37	-40.89	10.11	-8.59	-13.00	-26.37

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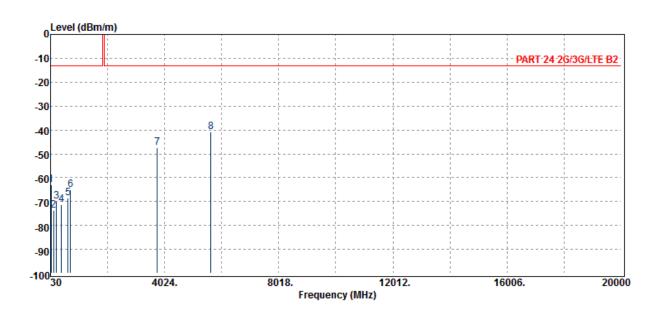
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ARFCN :CH 661 **Test Date** :2015-04-08

:GPRS 1900 Temp./Humi. :23 deg C / 53 RH **Operation Band**

Fundamental Frequency :1880 MHz Engineer :Curry Operation Mode :TX MID

EUT Pol. :E1 Plane Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
47.46	S	-62.99	-52.36	-9.74	-0.89	-13.00	-49.99
135.73	S	-73.54	-71.81	-0.42	-1.31	-13.00	-60.54
241.46	S	-69.80	-73.64	5.46	-1.61	-13.00	-56.80
414.12	S	-71.19	-74.93	5.69	-1.95	-13.00	-58.19
644.98	S	-68.61	-71.72	5.77	-2.67	-13.00	-55.61
730.34	S	-65.10	-67.92	5.47	-2.65	-13.00	-52.10
3760.00	Н	-47.49	-48.93	8.46	-7.02	-13.00	-34.49
5640.00	Н	-40.82	-42.34	10.11	-8.59	-13.00	-27.82

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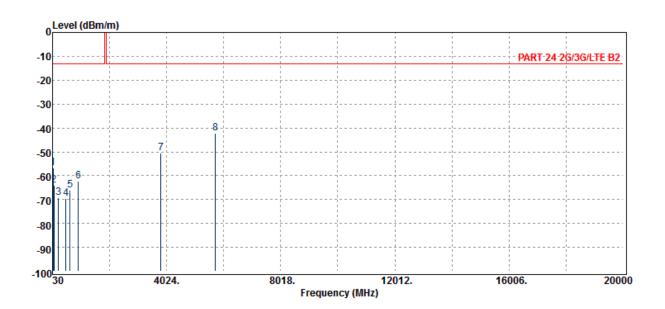
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ARFCN :CH 810 **Test Date** :2015-04-08

:GPRS 1900 Temp./Humi. :23 deg C / 53 RH **Operation Band**

Fundamental Frequency :1909.8 MHz Engineer :Curry Operation Mode :TX HIGH

EUT Pol. :E1 Plane Measurement Antenna Pol. :VERTICAL



Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
47.46	S	-56.77	-46.14	-9.74	-0.89	-13.00	-43.77
86.26	S	-63.94	-63.74	0.88	-1.08	-13.00	-50.94
234.67	S	-69.11	-72.97	5.45	-1.59	-13.00	-56.11
504.33	S	-69.68	-73.24	5.89	-2.33	-13.00	-56.68
647.89	S	-65.92	-69.04	5.78	-2.66	-13.00	-52.92
939.86	S	-62.17	-64.37	5.39	-3.19	-13.00	-49.17
3819.60	Н	-50.44	-51.89	8.50	-7.05	-13.00	-37.44
5729.40	Н	-42.23	-43.71	10.12	-8.64	-13.00	-29.23

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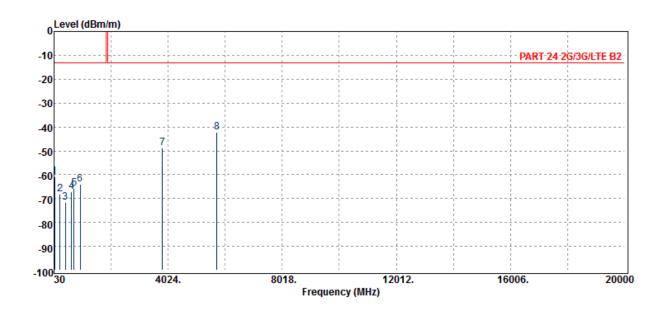
Page: 401 of 576

ARFCN :CH 810 **Test Date** :2015-04-08

:GPRS 1900 Temp./Humi. **Operation Band** :23 deg C / 53 RH

Fundamental Frequency :1909.8 MHz Engineer :Curry Operation Mode :TX HIGH

EUT Pol. :E1 Plane Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
47.46	S	-61.00	-50.37	-9.74	-0.89	-13.00	-48.00
241.46	S	-68.00	-71.85	5.46	-1.61	-13.00	-55.00
421.88	S	-71.53	-75.20	5.65	-1.98	-13.00	-58.53
642.07	S	-67.16	-70.25	5.76	-2.67	-13.00	-54.16
732.28	S	-65.87	-68.68	5.47	-2.65	-13.00	-52.87
946.65	S	-64.07	-66.25	5.39	-3.20	-13.00	-51.07
3819.60	Н	-48.68	-50.13	8.50	-7.05	-13.00	-35.68
5729.40	Н	-42.07	-43.55	10.12	-8.64	-13.00	-29.07

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Radiated Spurious Emission Measurement Result: HSDPA II Mode

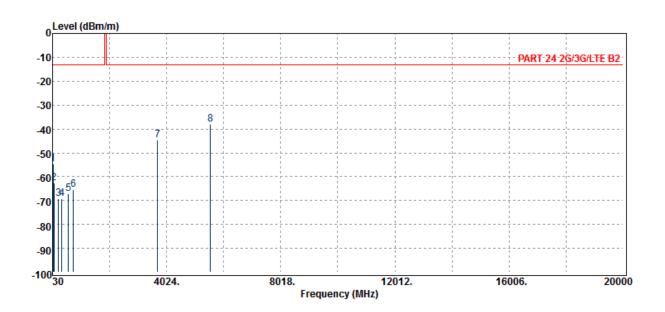
ARFCN :CH 9262 Test Date :2015-04-08

Temp./Humi. :23 deg_C / 53 RH **Operation Band** :HSDPA B2

Fundamental Frequency :1852.4 MHz Engineer :Curry

Operation Mode :TX LOW

EUT Pol. :E1 Plane Measurement Antenna Pol. :VERTICAL



Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
47.46	S	-54.69	-44.06	-9.74	-0.89	-13.00	-41.69
86.26	S	-62.64	-62.45	0.88	-1.08	-13.00	-49.64
235.64	S	-69.20	-73.05	5.45	-1.59	-13.00	-56.20
360.77	S	-69.09	-73.00	5.88	-1.96	-13.00	-56.09
583.87	S	-67.27	-70.17	5.64	-2.74	-13.00	-54.27
764.29	S	-65.52	-68.27	5.48	-2.73	-13.00	-52.52
3704.80	Н	-44.57	-46.11	8.43	-6.89	-13.00	-31.57
5557.20	Н	-37.98	-39.54	10.10	-8.54	-13.00	-24.98

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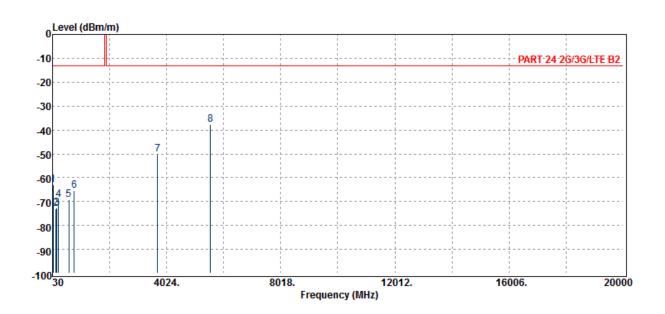
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ARFCN :CH 9262 **Test Date** :2015-04-08

:HSDPA B2 Temp./Humi. :23 deg C / 53 RH **Operation Band**

Fundamental Frequency :1852.4 MHz Engineer :Curry Operation Mode :TX LOW

EUT Pol. :E1 Plane Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
47.46	S	-62.96	-52.33	-9.74	-0.89	-13.00	-49.96
138.64	S	-72.92	-71.16	-0.44	-1.33	-13.00	-59.92
180.35	S	-72.64	-74.33	3.20	-1.50	-13.00	-59.64
243.40	S	-69.27	-73.14	5.49	-1.62	-13.00	-56.27
596.48	S	-69.21	-72.06	5.60	-2.75	-13.00	-56.21
781.75	S	-65.56	-68.31	5.53	-2.79	-13.00	-52.56
3704.80	Н	-50.06	-51.60	8.43	-6.89	-13.00	-37.06
5557.20	Н	-37.75	-39.32	10.10	-8.54	-13.00	-24.75

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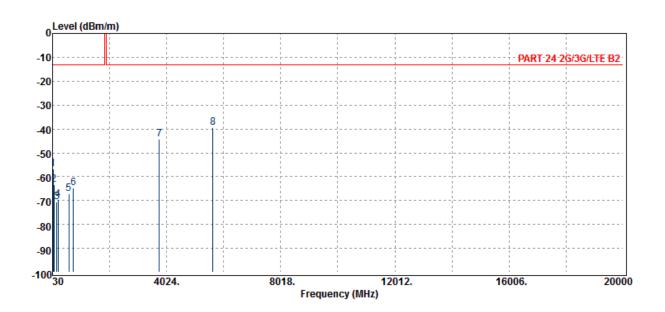
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ARFCN :CH 9400 **Test Date** :2015-04-08

Temp./Humi. :23 deg C / 53 RH **Operation Band** :HSDPA B2

Fundamental Frequency :1880 MHz Engineer :Curry Operation Mode :TX MID

EUT Pol. :E1 Plane Measurement Antenna Pol. :VERTICAL



Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
48.43	S	-56.80	-46.34	-9.57	-0.90	-13.00	-43.80
86.26	S	-63.39	-63.19	0.88	-1.08	-13.00	-50.39
179.38	S	-70.47	-72.00	3.03	-1.50	-13.00	-57.47
227.88	S	-69.48	-73.38	5.47	-1.57	-13.00	-56.48
605.21	S	-67.01	-69.89	5.61	-2.74	-13.00	-54.01
755.56	S	-64.68	-67.42	5.45	-2.71	-13.00	-51.68
3760.00	Н	-44.39	-45.83	8.46	-7.02	-13.00	-31.39
5640.00	Н	-39.60	-41.13	10.11	-8.59	-13.00	-26.60

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Report No.: ER/2015/40020 Issue Date: Jun. 04, 2015

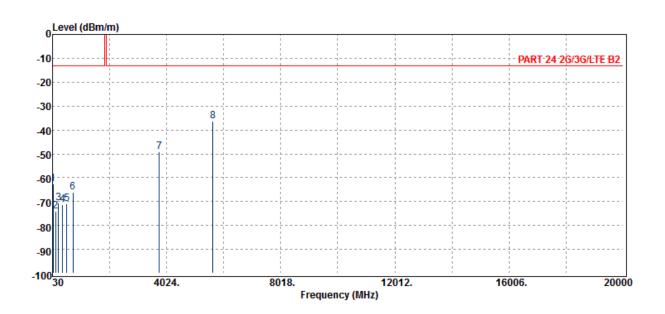
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ARFCN :CH 9400 **Test Date** :2015-04-08

Temp./Humi. :23 deg C / 53 RH **Operation Band** :HSDPA B2

Fundamental Frequency :1880 MHz Engineer :Curry Operation Mode :TX MID

EUT Pol. :E1 Plane Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
48.43	S	-62.55	-52.09	-9.57	-0.90	-13.00	-49.55
138.64	S	-73.95	-72.18	-0.44	-1.33	-13.00	-60.95
243.40	S	-70.55	-74.42	5.49	-1.62	-13.00	-57.55
377.26	S	-71.38	-75.26	5.83	-1.96	-13.00	-58.38
524.70	S	-70.86	-74.24	5.82	-2.44	-13.00	-57.86
743.92	S	-66.23	-68.99	5.44	-2.68	-13.00	-53.23
3760.00	Н	-49.01	-50.45	8.46	-7.02	-13.00	-36.01
5640.00	Н	-36.20	-37.72	10.11	-8.59	-13.00	-23.20

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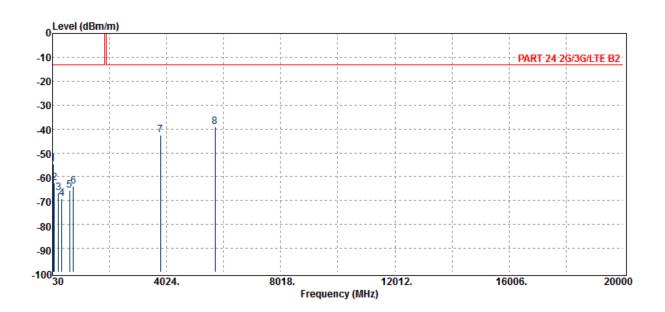
Page: 406 of 576

ARFCN :CH 9538 **Test Date** :2015-04-08

:HSDPA B2 Temp./Humi. :23 deg C / 53 RH **Operation Band**

Fundamental Frequency :1907.6 MHz Engineer :Curry Operation Mode :TX HIGH

EUT Pol. :E1 Plane Measurement Antenna Pol. :VERTICAL



Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
47.46	S	-54.64	-44.01	-9.74	-0.89	-13.00	-41.64
88.20	S	-62.63	-62.86	1.32	-1.08	-13.00	-49.63
233.70	S	-66.95	-70.81	5.45	-1.59	-13.00	-53.95
360.77	S	-69.05	-72.97	5.88	-1.96	-13.00	-56.05
635.28	S	-65.69	-68.74	5.73	-2.68	-13.00	-52.69
766.23	S	-63.85	-66.60	5.48	-2.73	-13.00	-50.85
3815.20	Н	-42.60	-44.04	8.49	-7.05	-13.00	-29.60
5722.80	Н	-39.08	-40.57	10.12	-8.63	-13.00	-26.08

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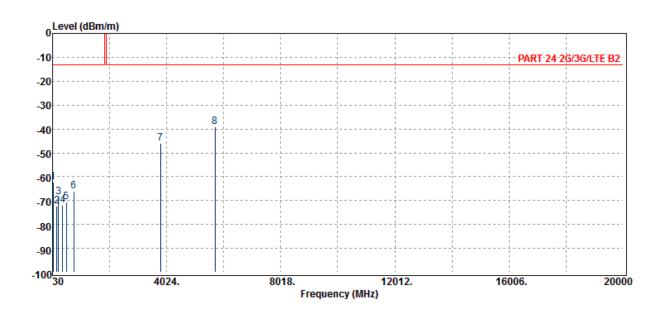
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ARFCN :CH 9538 **Test Date** :2015-04-08

:HSDPA B2 Temp./Humi. :23 deg C / 53 RH **Operation Band**

Fundamental Frequency :1907.6 MHz Engineer :Curry Operation Mode :TX HIGH

EUT Pol. :E1 Plane Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
47.46	S	-62.40	-51.77	-9.74	-0.89	-13.00	-49.40
181.32	S	-72.26	-74.12	3.36	-1.50	-13.00	-59.26
241.46	S	-68.57	-72.42	5.46	-1.61	-13.00	-55.57
383.08	S	-71.85	-75.72	5.82	-1.95	-13.00	-58.85
519.85	S	-70.51	-73.93	5.84	-2.41	-13.00	-57.51
768.17	S	-66.09	-68.84	5.49	-2.74	-13.00	-53.09
3815.20	Н	-46.18	-47.63	8.49	-7.05	-13.00	-33.18
5722.80	Н	-39.06	-40.55	10.12	-8.63	-13.00	-26.06

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Radiated Spurious Emission Measurement Result: HSDPA IV Mode

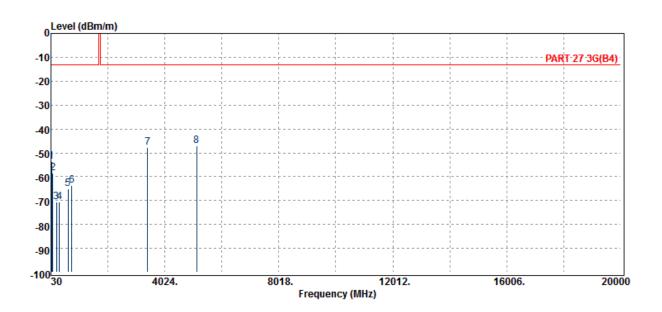
ARFCN :CH 1312 Test Date :2015-04-18

Temp./Humi. :23 deg C / 53 RH **Operation Band** :HSDPA B4

Fundamental Frequency :1712.4 MHz Engineer :Curry

Operation Mode :TX LOW

EUT Pol. :E1 Plane Measurement Antenna Pol. :VERTICAL



Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
47.46	S	-53.69	-43.06	-9.74	-0.89	-13.00	-40.69
89.17	S	-58.43	-58.87	1.53	-1.09	-13.00	-45.43
225.94	S	-70.59	-74.49	5.47	-1.57	-13.00	-57.59
320.03	S	-70.46	-74.43	5.83	-1.86	-13.00	-57.46
633.34	S	-64.93	-67.97	5.72	-2.69	-13.00	-51.93
753.62	S	-63.67	-66.41	5.44	-2.70	-13.00	-50.67
3424.80	Н	-47.80	-49.35	8.09	-6.54	-13.00	-34.80
5137.20	Н	-47.22	-48.62	9.89	-8.48	-13.00	-34.22

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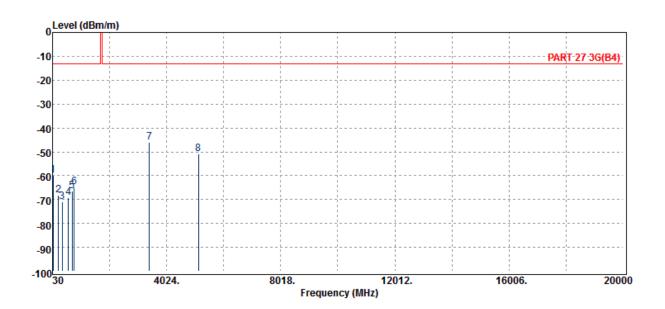
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ARFCN :CH 1312 **Test Date** :2015-04-18

:HSDPA B4 Temp./Humi. :23 deg C / 53 RH **Operation Band**

Fundamental Frequency :1712.4 MHz Engineer :Curry Operation Mode :TX LOW

EUT Pol. :E1 Plane Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
47.46	S	-59.96	-49.33	-9.74	-0.89	-13.00	-46.96
243.40	S	-68.27	-72.14	5.49	-1.62	-13.00	-55.27
370.47	S	-70.96	-74.86	5.85	-1.96	-13.00	-57.96
582.90	S	-69.05	-71.96	5.64	-2.73	-13.00	-56.05
714.82	S	-66.26	-69.16	5.50	-2.61	-13.00	-53.26
781.75	S	-64.56	-67.31	5.53	-2.79	-13.00	-51.56
3424.80	Н	-45.94	-47.49	8.09	-6.54	-13.00	-32.94
5137.20	Н	-50.71	-52.11	9.89	-8.48	-13.00	-37.71

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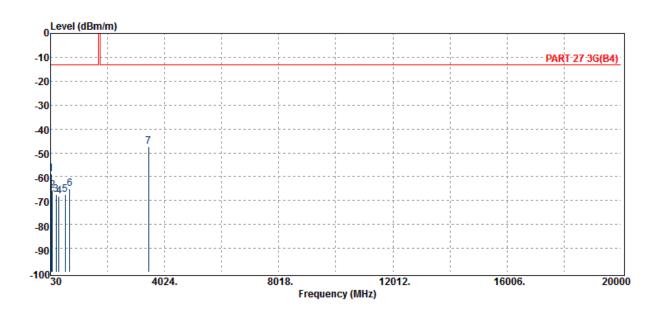
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ARFCN :CH 1413 **Test Date** :2015-04-18

:HSDPA B4 Temp./Humi. :23 deg C / 53 RH **Operation Band**

Fundamental Frequency :1732.6 MHz Engineer :Curry Operation Mode :TX MID

EUT Pol. :E1 Plane Measurement Antenna Pol. :VERTICAL



Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
48.43	S	-58.80	-48.34	-9.57	-0.90	-13.00	-45.80
88.20	S	-65.75	-65.98	1.32	-1.08	-13.00	-52.75
227.88	S	-67.48	-71.38	5.47	-1.57	-13.00	-54.48
323.91	S	-68.04	-72.01	5.84	-1.88	-13.00	-55.04
540.22	S	-67.31	-70.56	5.77	-2.52	-13.00	-54.31
699.30	S	-65.20	-68.13	5.54	-2.61	-13.00	-52.20
3465.20	Н	-47.51	-49.18	8.20	-6.53	-13.00	-34.51

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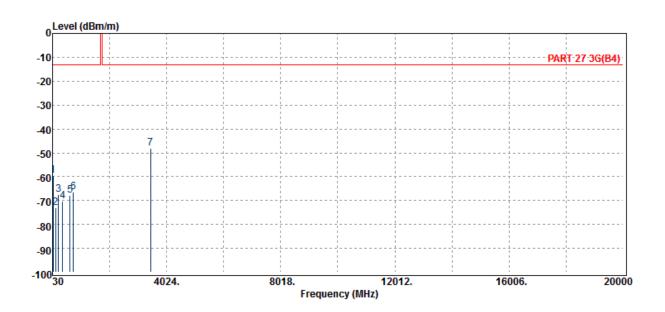
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ARFCN :CH 1413 **Test Date** :2015-04-18

:HSDPA B4 Temp./Humi. :23 deg C / 53 RH **Operation Band**

Fundamental Frequency :1732.6 MHz Engineer :Curry Operation Mode :TX MID

EUT Pol. :E1 Plane Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
48.43	S	-59.55	-49.09	-9.57	-0.90	-13.00	-46.55
138.64	S	-72.95	-71.18	-0.44	-1.33	-13.00	-59.95
243.40	S	-67.55	-71.42	5.49	-1.62	-13.00	-54.55
377.26	S	-70.38	-74.26	5.83	-1.96	-13.00	-57.38
646.92	S	-67.86	-70.98	5.78	-2.66	-13.00	-54.86
765.26	S	-66.32	-69.07	5.48	-2.73	-13.00	-53.32
3465.20	Н	-47.96	-49.62	8.20	-6.53	-13.00	-34.96

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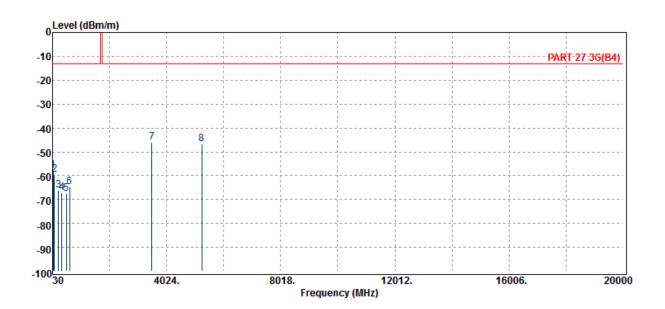
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ARFCN :CH 1513 **Test Date** :2015-04-18

:HSDPA B4 Temp./Humi. :23 deg C / 53 RH **Operation Band**

Fundamental Frequency :1752.6 MHz Engineer :Curry Operation Mode :TX HIGH

EUT Pol. :E1 Plane Measurement Antenna Pol. :VERTICAL



Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
47.46	S	-57.64	-47.01	-9.74	-0.89	-13.00	-44.64
88.20	S	-59.63	-59.86	1.32	-1.08	-13.00	-46.63
233.70	S	-65.95	-69.81	5.45	-1.59	-13.00	-52.95
360.77	S	-67.05	-70.97	5.88	-1.96	-13.00	-54.05
519.85	S	-67.60	-71.03	5.84	-2.41	-13.00	-54.60
635.28	S	-64.69	-67.74	5.73	-2.68	-13.00	-51.69
3505.20	Н	-46.05	-47.68	8.30	-6.68	-13.00	-33.05
5257.80	Н	-46.56	-47.95	9.96	-8.57	-13.00	-33.56

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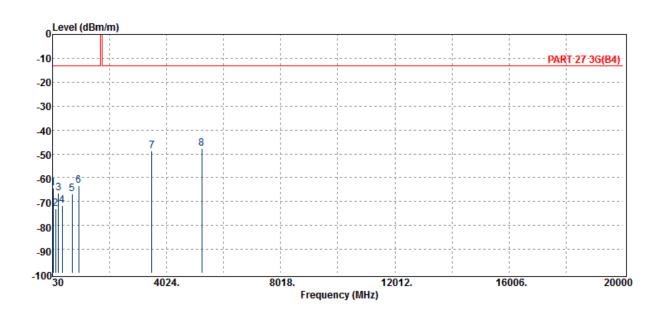
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ARFCN :CH 1513 **Test Date** :2015-04-18

:HSDPA B4 Temp./Humi. :23 deg C / 53 RH **Operation Band**

Fundamental Frequency :1752.6 MHz Engineer :Curry Operation Mode :TX HIGH

EUT Pol. :E1 Plane Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
47.46	S	-64.40	-53.77	-9.74	-0.89	-13.00	-51.40
142.52	S	-72.88	-71.21	-0.32	-1.35	-13.00	-59.88
241.46	S	-66.57	-70.42	5.46	-1.61	-13.00	-53.57
372.41	S	-71.57	-75.45	5.85	-1.96	-13.00	-58.57
715.79	S	-66.86	-69.75	5.50	-2.61	-13.00	-53.86
950.53	S	-63.43	-65.58	5.35	-3.20	-13.00	-50.43
3505.20	Н	-48.64	-50.26	8.30	-6.68	-13.00	-35.64
5257.80	Н	-47.67	-49.06	9.96	-8.57	-13.00	-34.67

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Radiated Spurious Emission Measurement Result: HSDPA V Mode

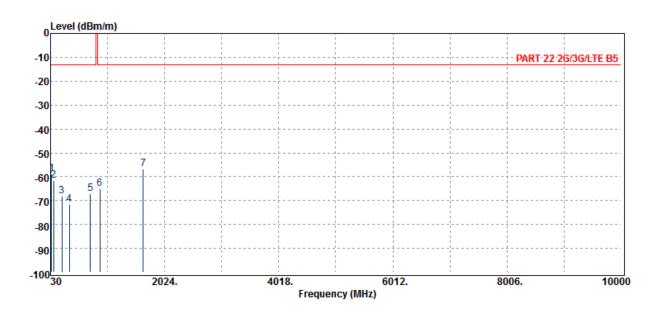
ARFCN :CH 4132 Test Date :2015-04-08

Temp./Humi. :23 deg_C / 53 RH **Operation Band** :HSDPA B5

Fundamental Frequency :826.4 MHz Engineer :Curry

Operation Mode :TX LOW

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



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
48.43	S	-58.65	-46.04	-11.72	-0.90	-13.00	-45.65
85.29	S	-61.55	-58.98	-1.50	-1.07	-13.00	-48.55
229.82	S	-68.25	-69.98	3.31	-1.58	-13.00	-55.25
360.77	S	-71.63	-73.40	3.73	-1.96	-13.00	-58.63
725.49	S	-67.05	-67.75	3.33	-2.64	-13.00	-54.05
891.36	S	-64.93	-65.12	3.30	-3.12	-13.00	-51.93
1652.80	Н	-56.62	-55.45	3.05	-4.22	-13.00	-43.62

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Report No.: ER/2015/40020 Issue Date: Jun. 04, 2015

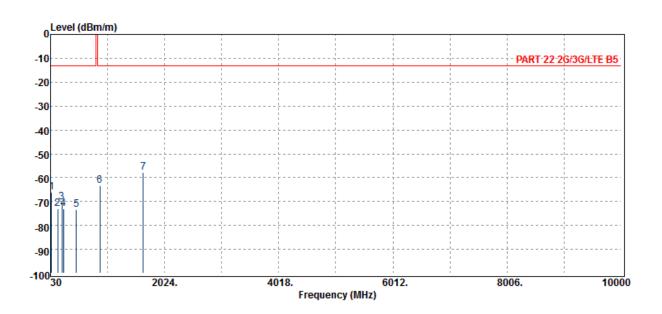
Page: 415 of 576

ARFCN :CH 4132 **Test Date** :2015-04-08

Temp./Humi. :23 deg C / 53 RH **Operation Band** :HSDPA B5

Fundamental Frequency :826.4 MHz Engineer :Curry Operation Mode :TX LOW

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



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
50.37	S	-66.22	-53.97	-11.33	-0.91	-13.00	-53.22
158.04	S	-72.97	-69.98	-1.56	-1.43	-13.00	-59.97
230.79	S	-70.33	-72.06	3.31	-1.58	-13.00	-57.33
259.89	S	-72.97	-74.98	3.68	-1.67	-13.00	-59.97
482.02	S	-73.36	-74.78	3.62	-2.20	-13.00	-60.36
891.36	S	-63.17	-63.35	3.30	-3.12	-13.00	-50.17
1652.80	Н	-57.81	-56.63	3.05	-4.22	-13.00	-44.81

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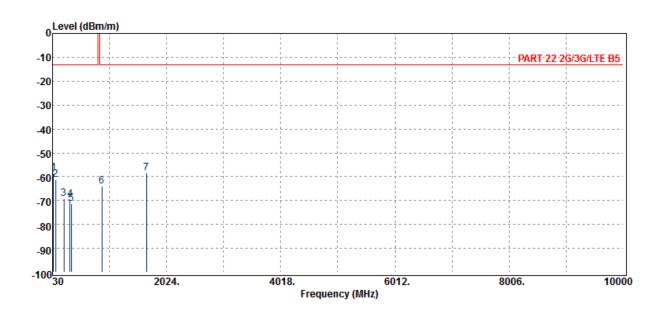
Page: 416 of 576

ARFCN :CH 4183 **Test Date** :2015-04-08

:HSDPA B5 Temp./Humi. :23 deg C / 53 RH **Operation Band**

Fundamental Frequency :836.6 MHz Engineer :Curry Operation Mode :TX MID

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



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
47.46	S	-58.55	-45.77	-11.89	-0.89	-13.00	-45.55
85.29	S	-61.13	-58.57	-1.50	-1.07	-13.00	-48.13
229.82	S	-69.23	-70.97	3.31	-1.58	-13.00	-56.23
336.52	S	-69.71	-71.51	3.73	-1.92	-13.00	-56.71
360.77	S	-71.38	-73.15	3.73	-1.96	-13.00	-58.38
890.39	S	-64.00	-64.19	3.30	-3.11	-13.00	-51.00
1673.20	Н	-58.39	-57.14	3.01	-4.26	-13.00	-45.39

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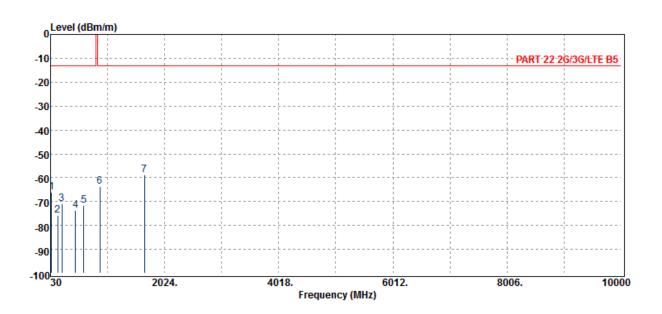
Page: 417 of 576

ARFCN :CH 4183 **Test Date** :2015-04-08

:HSDPA B5 Temp./Humi. :23 deg C / 53 RH **Operation Band**

Fundamental Frequency :836.6 MHz Engineer :Curry Operation Mode :TX MID

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



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
48.43	S	-65.93	-53.32	-11.72	-0.90	-13.00	-52.93
156.10	S	-75.62	-72.51	-1.69	-1.42	-13.00	-62.62
231.76	S	-70.86	-72.59	3.31	-1.58	-13.00	-57.86
465.53	S	-73.76	-75.13	3.48	-2.11	-13.00	-60.76
610.06	S	-71.65	-72.40	3.48	-2.73	-13.00	-58.65
890.39	S	-63.55	-63.74	3.30	-3.11	-13.00	-50.55
1673.20	Н	-58.85	-57.60	3.01	-4.26	-13.00	-45.85

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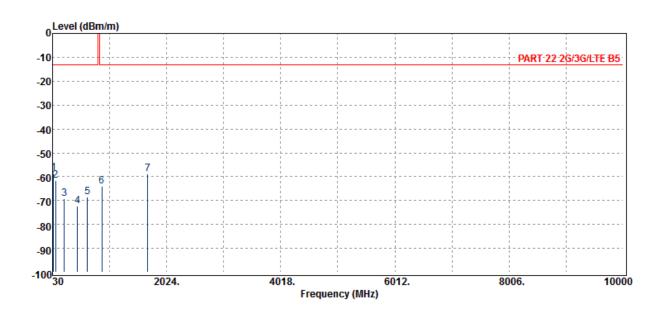
Page: 418 of 576

ARFCN :CH 4233 **Test Date** :2015-04-08

Temp./Humi. :23 deg C / 53 RH **Operation Band** :HSDPA B5

Fundamental Frequency :846.6 MHz Engineer :Curry Operation Mode :TX HIGH

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



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
47.46	S	-58.59	-45.80	-11.89	-0.89	-13.00	-45.59
85.29	S	-61.48	-58.92	-1.50	-1.07	-13.00	-48.48
233.70	S	-69.18	-70.90	3.30	-1.59	-13.00	-56.18
466.50	S	-72.27	-73.65	3.49	-2.11	-13.00	-59.27
638.19	S	-68.43	-69.35	3.59	-2.68	-13.00	-55.43
893.30	S	-63.95	-64.12	3.29	-3.12	-13.00	-50.95
1693.20	Н	-58.76	-57.46	2.97	-4.27	-13.00	-45.76

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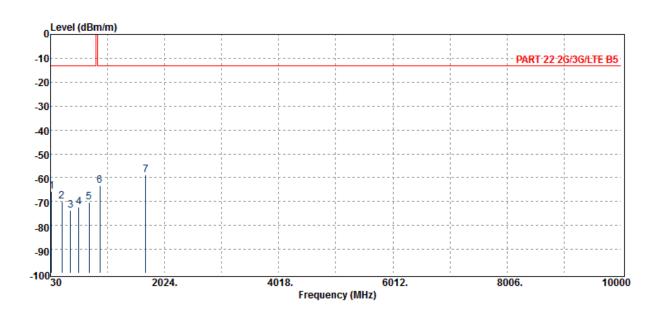
Page: 419 of 576

ARFCN :CH 4233 **Test Date** :2015-04-08

Temp./Humi. :23 deg C / 53 RH **Operation Band** :HSDPA B5

Fundamental Frequency :846.6 MHz Engineer :Curry Operation Mode :TX HIGH

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



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
49.40	S	-65.69	-53.24	-11.55	-0.90	-13.00	-52.69
231.76	S	-69.91	-71.64	3.31	-1.58	-13.00	-56.91
381.14	S	-73.80	-75.52	3.67	-1.95	-13.00	-60.80
520.82	S	-72.45	-73.72	3.69	-2.42	-13.00	-59.45
703.18	S	-70.39	-71.16	3.38	-2.61	-13.00	-57.39
891.36	S	-63.25	-63.44	3.30	-3.12	-13.00	-50.25
1693.20	Н	-58.80	-57.50	2.97	-4.27	-13.00	-45.80

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Radiated Spurious Emission Measurement Result: CDMA BC0 Mode

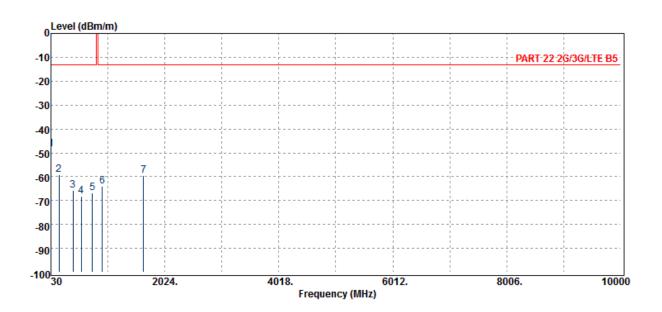
ARFCN :CH 1013 Test Date :2015-04-21

:23 deg_C / 52 RH Temp./Humi. **Operation Band** :CDMA 850

Fundamental Frequency :824.7 MHz Engineer :Tin

Operation Mode :TX LOW

EUT Pol. :E2 Plane Measurement Antenna Pol. :VERTICAL



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
36.79	S	-48.34	-34.22	-13.32	-0.80	-13.00	-35.34
172.59	S	-59.13	-57.38	-0.26	-1.49	-13.00	-46.13
418.00	S	-65.74	-67.29	3.52	-1.97	-13.00	-52.74
557.68	S	-68.27	-69.23	3.56	-2.61	-13.00	-55.27
754.59	S	-66.93	-67.52	3.30	-2.71	-13.00	-53.93
931.13	S	-63.91	-63.98	3.25	-3.18	-13.00	-50.91
1649.40	Н	-59.34	-58.18	3.05	-4.21	-13.00	-46.34

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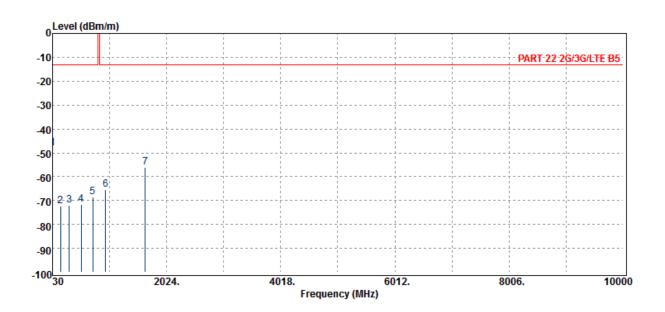
Page: 421 of 576

ARFCN :CH 1013 **Test Date** :2015-04-21

Temp./Humi. :23 deg C / 52 RH **Operation Band** :CDMA 850

Fundamental Frequency :824.7 MHz Engineer :Tin Operation Mode :TX LOW

EUT Pol. :E2 Plane Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
35.82	S	-48.23	-33.95	-13.49	-0.79	-13.00	-35.23
172.59	S	-72.38	-70.63	-0.26	-1.49	-13.00	-59.38
324.88	S	-71.82	-73.64	3.69	-1.88	-13.00	-58.82
531.49	S	-71.66	-72.84	3.65	-2.48	-13.00	-58.66
735.19	S	-68.36	-69.01	3.31	-2.66	-13.00	-55.36
955.38	S	-65.40	-65.06	2.87	-3.21	-13.00	-52.40
1649.40	Н	-55.94	-54.78	3.05	-4.21	-13.00	-42.94

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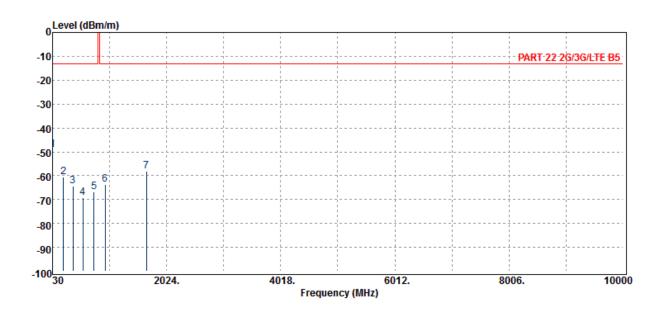
Page: 422 of 576

ARFCN :CH 384 **Test Date** :2015-04-21

Temp./Humi. :23 deg C / 52 RH **Operation Band** :CDMA 850

Fundamental Frequency :836.52 MHz Engineer :Tin Operation Mode :TX MID

EUT Pol. :E2 Plane Measurement Antenna Pol. :VERTICAL



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
36.79	S	-49.00	-34.88	-13.32	-0.80	-13.00	-36.00
224.00	S	-60.44	-62.19	3.32	-1.57	-13.00	-47.44
389.87	S	-64.42	-66.12	3.65	-1.95	-13.00	-51.42
559.62	S	-69.31	-70.25	3.56	-2.62	-13.00	-56.31
754.59	S	-66.69	-67.28	3.30	-2.71	-13.00	-53.69
947.62	S	-63.50	-63.53	3.24	-3.20	-13.00	-50.50
1673.04	Н	-58.01	-56.77	3.01	-4.26	-13.00	-45.01

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Operation Mode

FCC ID: CPOD7E1-LTE

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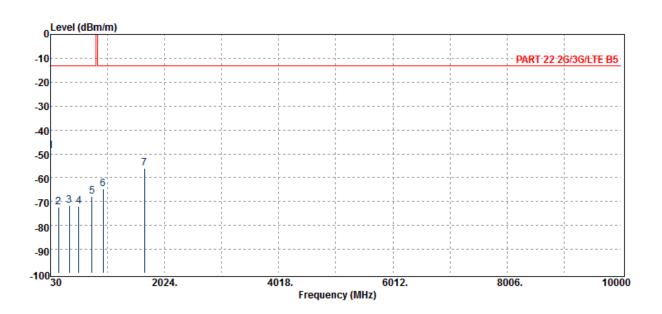
ARFCN :CH 384 **Test Date** :2015-04-21

Temp./Humi. :23 deg C / 52 RH **Operation Band** :CDMA 850

Fundamental Frequency :836.52 MHz Engineer :Tin

:TX MID

EUT Pol. :E2 Plane Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
35.82	S	-48.67	-34.39	-13.49	-0.79	-13.00	-35.67
173.56	S	-72.38	-70.80	-0.10	-1.49	-13.00	-59.38
359.80	S	-71.63	-73.40	3.73	-1.96	-13.00	-58.63
520.82	S	-72.03	-73.30	3.69	-2.42	-13.00	-59.03
756.53	S	-67.98	-68.58	3.30	-2.71	-13.00	-54.98
952.47	S	-64.64	-64.50	3.07	-3.21	-13.00	-51.64
1673.04	Н	-55.97	-54.73	3.01	-4.26	-13.00	-42.97

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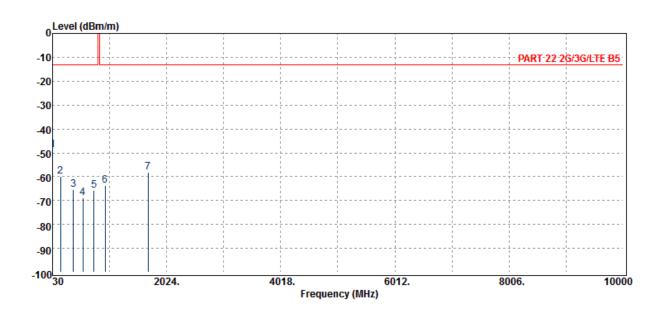
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ARFCN :CH 777 **Test Date** :2015-04-21

Temp./Humi. :23 deg C / 52 RH **Operation Band** :CDMA 850

Fundamental Frequency :848.31 MHz Engineer :Tin Operation Mode :TX HIGH

EUT Pol. :E2 Plane Measurement Antenna Pol. :VERTICAL



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
35.82	S	-48.74	-34.46	-13.49	-0.79	-13.00	-35.74
168.71	S	-59.94	-57.66	-0.80	-1.48	-13.00	-46.94
396.66	S	-65.52	-67.21	3.63	-1.95	-13.00	-52.52
559.62	S	-68.91	-69.85	3.56	-2.62	-13.00	-55.91
754.59	S	-65.72	-66.31	3.30	-2.71	-13.00	-52.72
952.47	S	-63.59	-63.45	3.07	-3.21	-13.00	-50.59
1696.62	Н	-58.12	-56.81	2.96	-4.28	-13.00	-45.12

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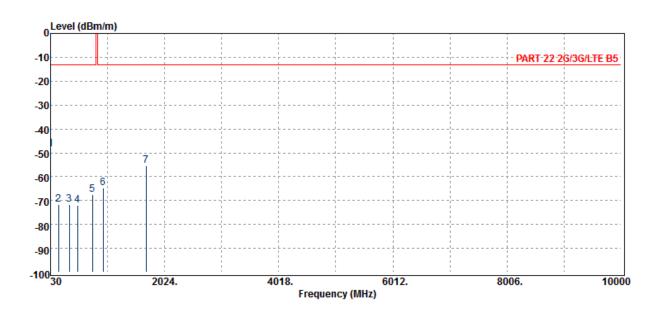
Page: 425 of 576

ARFCN :CH 777 **Test Date** :2015-04-21

Temp./Humi. :23 deg C / 52 RH **Operation Band** :CDMA 850

Fundamental Frequency :848.31 MHz Engineer :Tin Operation Mode :TX HIGH

EUT Pol. :E2 Plane Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
35.82	S	-48.47	-34.19	-13.49	-0.79	-13.00	-35.47
173.56	S	-71.47	-69.89	-0.10	-1.49	-13.00	-58.47
360.77	S	-71.62	-73.39	3.73	-1.96	-13.00	-58.62
504.33	S	-71.99	-73.41	3.74	-2.33	-13.00	-58.99
760.41	S	-67.64	-68.24	3.32	-2.72	-13.00	-54.64
948.59	S	-64.79	-64.82	3.24	-3.20	-13.00	-51.79
1696.62	Н	-55.43	-54.12	2.96	-4.28	-13.00	-42.43

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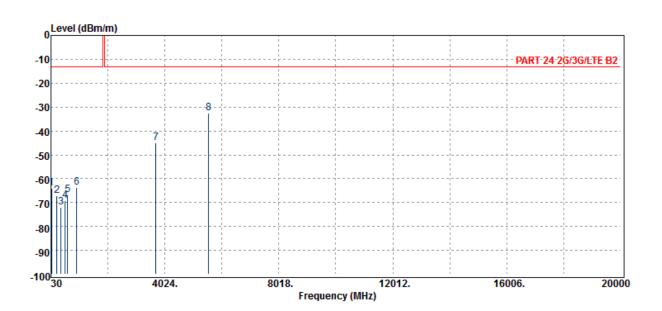
Radiated Spurious Emission Measurement Result: CDMA BC1 Mode

ARFCN :CH 25 Test Date :2015-04-21

Temp./Humi. :CDMA 1900 :22 deg C / 51 RH **Operation Band**

Fundamental Frequency :1851.25 MHz Engineer :Curry

Operation Mode :TX LOW EUT Pol. :H Plane Measurement Antenna Pol. :VERTICAL



Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
52.31	S	-63.95	-54.40	-8.63	-0.92	-13.00	-50.95
243.40	S	-67.26	-71.13	5.49	-1.62	-13.00	-54.26
378.23	S	-71.82	-75.69	5.83	-1.95	-13.00	-58.82
523.73	S	-69.04	-72.43	5.83	-2.43	-13.00	-56.04
617.82	S	-66.76	-69.71	5.66	-2.71	-13.00	-53.76
932.10	S	-63.70	-65.92	5.40	-3.18	-13.00	-50.70
3702.50	Н	-45.00	-46.54	8.43	-6.88	-13.00	-32.00
5553.75	Н	-32.45	-34.01	10.10	-8.54	-13.00	-19.45

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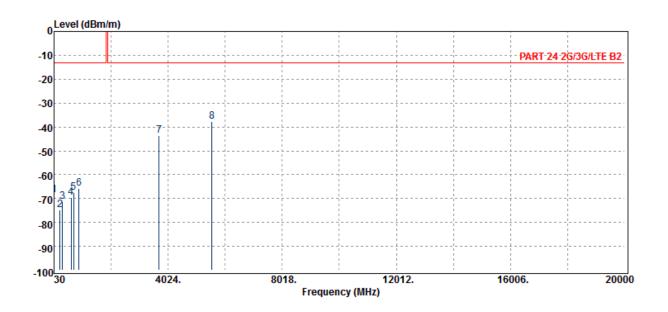
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ARFCN :CH 25 **Test Date** :2015-04-21

Temp./Humi. **Operation Band** :CDMA 1900 :22 deg C / 51 RH

:1851.25 MHz Fundamental Frequency Engineer :Curry Operation Mode :TX LOW

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



Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
39.70	S	-68.60	-57.09	-10.68	-0.83	-13.00	-55.60
245.34	S	-74.79	-78.68	5.52	-1.62	-13.00	-61.79
323.91	S	-71.40	-75.37	5.84	-1.88	-13.00	-58.40
636.25	S	-69.38	-72.44	5.74	-2.68	-13.00	-56.38
716.76	S	-67.55	-70.43	5.50	-2.62	-13.00	-54.55
907.85	S	-65.89	-68.16	5.41	-3.14	-13.00	-52.89
3702.50	Н	-43.55	-45.09	8.43	-6.88	-13.00	-30.55
5553.75	Н	-37.63	-39.19	10.10	-8.54	-13.00	-24.63

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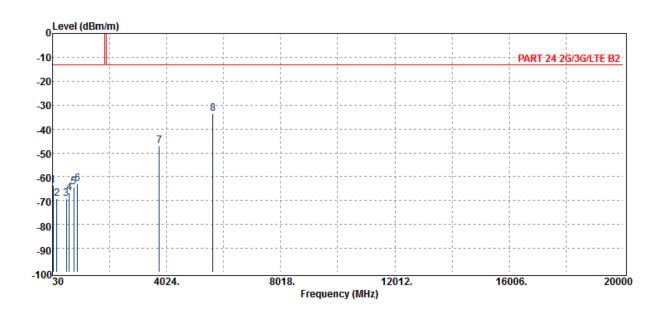
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ARFCN :CH 600 **Test Date** :2015-04-21

:CDMA 1900 Temp./Humi. :22 deg C / 51 RH **Operation Band**

Fundamental Frequency :1880.0 MHz Engineer :Curry Operation Mode :TX MID

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



Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
51.34	S	-63.77	-53.95	-8.90	-0.92	-13.00	-50.77
180.35	S	-69.18	-70.88	3.20	-1.50	-13.00	-56.18
511.12	S	-69.33	-72.84	5.87	-2.36	-13.00	-56.33
619.76	S	-66.76	-69.72	5.67	-2.71	-13.00	-53.76
773.99	S	-64.24	-66.99	5.51	-2.76	-13.00	-51.24
910.76	S	-62.82	-65.08	5.41	-3.15	-13.00	-49.82
3760.00	Н	-47.03	-48.47	8.46	-7.02	-13.00	-34.03
5640.00	Н	-33.54	-35.07	10.11	-8.59	-13.00	-20.54

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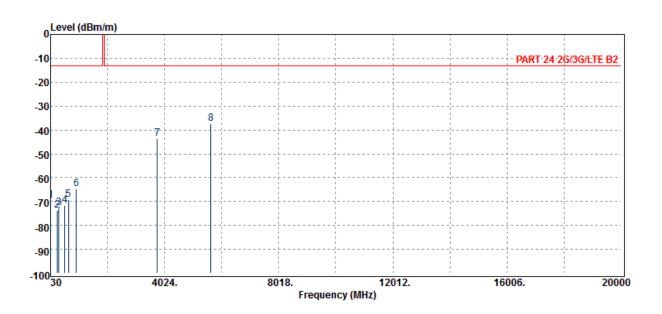
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ARFCN :CH 600 **Test Date** :2015-04-21

:CDMA 1900 Temp./Humi. :22 deg C / 51 RH **Operation Band**

Fundamental Frequency :1880.0 MHz Engineer :Curry Operation Mode :TX MID

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



Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
41.64	S	-69.71	-58.38	-10.48	-0.84	-13.00	-56.71
269.59	S	-73.69	-77.76	5.76	-1.69	-13.00	-60.69
323.91	S	-72.58	-76.55	5.84	-1.88	-13.00	-59.58
523.73	S	-71.47	-74.86	5.83	-2.43	-13.00	-58.47
654.68	S	-69.04	-72.15	5.76	-2.65	-13.00	-56.04
934.04	S	-64.69	-66.91	5.39	-3.18	-13.00	-51.69
3760.00	Н	-43.60	-45.05	8.46	-7.02	-13.00	-30.60
5640.00	Н	-37.43	-38.95	10.11	-8.59	-13.00	-24.43

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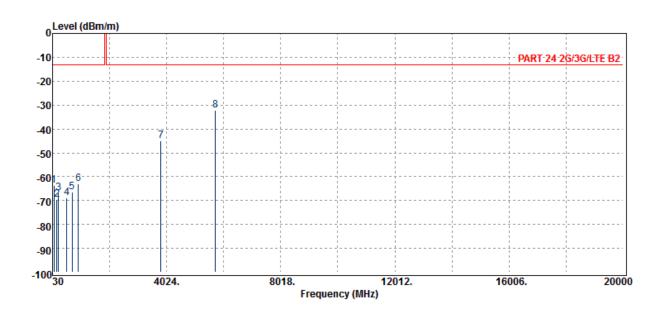
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ARFCN :CH 1175 **Test Date** :2015-04-21

Temp./Humi. :22 deg C / 51 RH **Operation Band** :CDMA 1900

Fundamental Frequency :1908.75 MHz Engineer :Curry Operation Mode :TX HIGH

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



Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
80.44	S	-63.52	-61.97	-0.50	-1.05	-13.00	-50.52
180.35	S	-69.47	-71.16	3.20	-1.50	-13.00	-56.47
242.43	S	-66.85	-70.70	5.47	-1.62	-13.00	-53.85
521.79	S	-68.85	-72.26	5.83	-2.42	-13.00	-55.85
721.61	S	-66.38	-69.24	5.49	-2.63	-13.00	-53.38
927.25	S	-63.13	-65.36	5.40	-3.17	-13.00	-50.13
3817.50	Н	-44.97	-46.42	8.50	-7.05	-13.00	-31.97
5726.25	Н	-32.11	-33.59	10.12	-8.63	-13.00	-19.11

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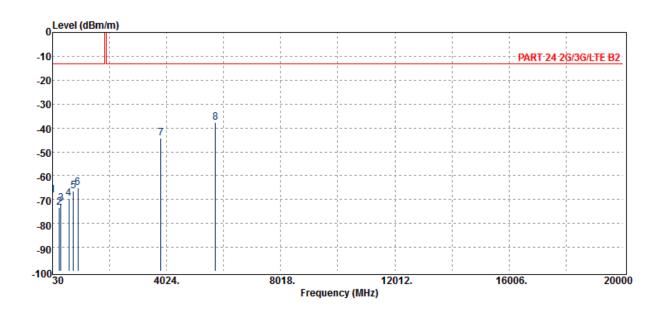
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ARFCN :CH 1175 **Test Date** :2015-04-21

Temp./Humi. :22 deg C / 51 RH **Operation Band** :CDMA 1900

Fundamental Frequency :1908.75 MHz Engineer :Curry Operation Mode :TX HIGH

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



Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
35.82	S	-68.30	-56.17	-11.34	-0.79	-13.00	-55.30
269.59	S	-73.52	-77.59	5.76	-1.69	-13.00	-60.52
324.88	S	-71.51	-75.48	5.84	-1.88	-13.00	-58.51
605.21	S	-69.58	-72.46	5.61	-2.74	-13.00	-56.58
766.23	S	-66.34	-69.09	5.48	-2.73	-13.00	-53.34
915.61	S	-64.93	-67.19	5.41	-3.15	-13.00	-51.93
3817.50	Н	-44.43	-45.87	8.50	-7.05	-13.00	-31.43
5726.25	Н	-37.58	-39.07	10.12	-8.63	-13.00	-24.58

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Radiated Spurious Emission Measurement Result: CDMA BC10 Mode

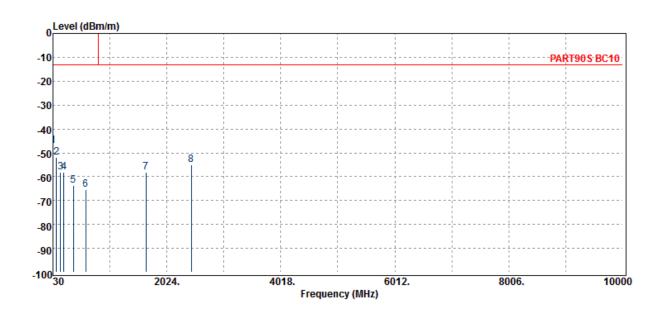
ARFCN :CH 476 Test Date :2015-04-21

Temp./Humi. :23 deg_C / 52 RH **Operation Band** :CDMA BC10

Fundamental Frequency :817.9 MHz Engineer :Tin

Operation Mode :TX LOW

EUT Pol. :E2 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
36.79	S	-47.02	-35.05	-11.17	-0.80	-13.00	-34.02
88.20	S	-52.07	-52.31	1.32	-1.08	-13.00	-39.07
165.80	S	-58.26	-57.94	1.14	-1.46	-13.00	-45.26
224.00	S	-58.27	-62.17	5.47	-1.57	-13.00	-45.27
385.99	S	-63.81	-67.66	5.81	-1.95	-13.00	-50.81
605.21	S	-65.45	-68.33	5.61	-2.74	-13.00	-52.45
1653.80	Н	-57.96	-56.78	3.04	-4.22	-13.00	-44.96
2453.70	Н	-55.11	-53.35	3.55	-5.30	-13.00	-42.11

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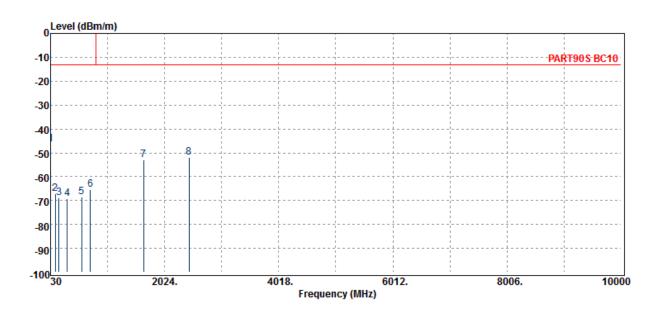
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ARFCN :CH 476 **Test Date** :2015-04-21

Temp./Humi. :23 deg C / 52 RH **Operation Band** :CDMA BC10

Fundamental Frequency :817.9 MHz Engineer :Tin Operation Mode :TX LOW

EUT Pol. :E2 Plane Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
35.82	S	-46.40	-34.27	-11.34	-0.79	-13.00	-33.40
109.54	S	-67.03	-65.77	-0.11	-1.15	-13.00	-54.03
181.32	S	-68.75	-70.61	3.36	-1.50	-13.00	-55.75
324.88	S	-69.16	-73.12	5.84	-1.88	-13.00	-56.16
576.11	S	-68.61	-71.57	5.66	-2.70	-13.00	-55.61
728.40	S	-65.33	-68.16	5.47	-2.64	-13.00	-52.33
1653.80	Н	-53.07	-51.89	3.04	-4.22	-13.00	-40.07
2453.70	Н	-52.03	-50.28	3.55	-5.30	-13.00	-39.03

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Report No.: ER/2015/40020 Issue Date: Jun. 04, 2015

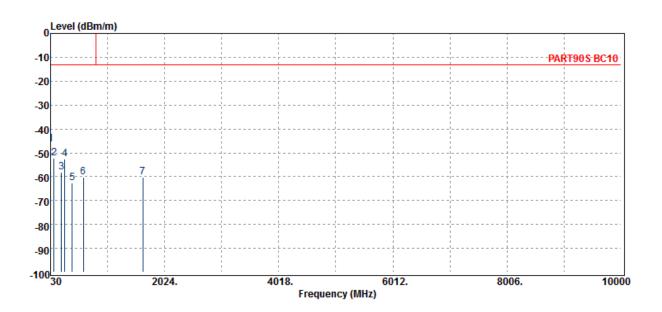
Page: 434 of 576

ARFCN :CH 580 **Test Date** :2015-04-21

Temp./Humi. :23 deg C / 52 RH **Operation Band** :CDMA BC10

Fundamental Frequency :820.5 MHz Engineer :Tin Operation Mode :TX MID

EUT Pol. :E2 Plane Measurement Antenna Pol. :VERTICAL



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
36.79	S	-46.32	-34.35	-11.17	-0.80	-13.00	-33.32
89.17	S	-52.41	-52.85	1.53	-1.09	-13.00	-39.41
224.00	S	-58.21	-62.12	5.47	-1.57	-13.00	-45.21
280.26	S	-52.65	-56.40	5.48	-1.72	-13.00	-39.65
410.24	S	-62.56	-66.33	5.71	-1.94	-13.00	-49.56
602.30	S	-60.19	-63.05	5.60	-2.74	-13.00	-47.19
1641.00	Н	-60.04	-58.91	3.07	-4.20	-13.00	-47.04

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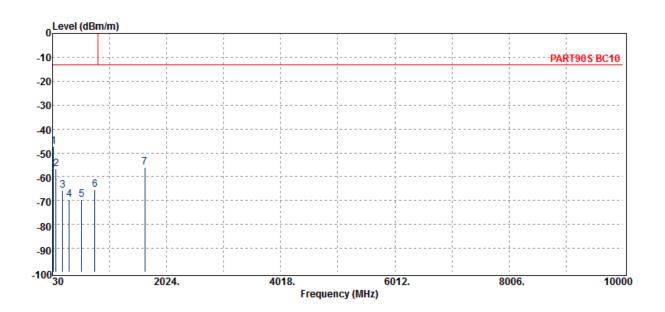
Page: 435 of 576

ARFCN :CH 580 **Test Date** :2015-04-21

Temp./Humi. :23 deg C / 52 RH **Operation Band** :CDMA BC10

Fundamental Frequency :820.5 MHz Engineer :Tin Operation Mode :TX MID

EUT Pol. :E2 Plane Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
46.49	S	-47.49	-36.69	-9.92	-0.88	-13.00	-34.49
90.14	S	-56.80	-57.41	1.70	-1.09	-13.00	-43.80
206.54	S	-65.70	-69.86	5.70	-1.54	-13.00	-52.70
323.91	S	-69.70	-73.66	5.84	-1.88	-13.00	-56.70
535.37	S	-69.61	-72.90	5.79	-2.50	-13.00	-56.61
770.11	S	-65.47	-68.22	5.50	-2.74	-13.00	-52.47
1641.00	Н	-56.08	-54.95	3.07	-4.20	-13.00	-43.08

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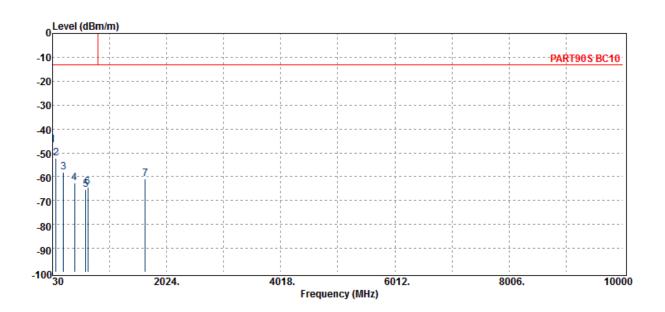
Page: 436 of 576

ARFCN :CH 684 **Test Date** :2015-04-21

Temp./Humi. :23 deg C / 52 RH **Operation Band** :CDMA BC10

Fundamental Frequency :823.1 MHz Engineer :Tin Operation Mode :TX HIGH

EUT Pol. :E2 Plane Measurement Antenna Pol. :VERTICAL



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
36.79	S	-46.85	-34.88	-11.17	-0.80	-13.00	-33.85
88.20	S	-52.27	-52.50	1.32	-1.08	-13.00	-39.27
223.03	S	-58.04	-61.94	5.47	-1.57	-13.00	-45.04
418.97	S	-62.72	-66.41	5.66	-1.97	-13.00	-49.72
610.06	S	-65.50	-68.41	5.63	-2.73	-13.00	-52.50
646.92	S	-64.49	-67.61	5.78	-2.66	-13.00	-51.49
1646.20	Н	-60.76	-59.61	3.06	-4.21	-13.00	-47.76

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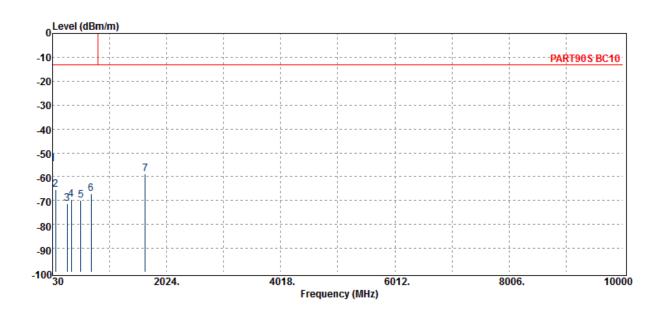
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ARFCN :CH 684 **Test Date** :2015-04-21

Temp./Humi. :23 deg C / 52 RH **Operation Band** :CDMA BC10

Fundamental Frequency :823.1 MHz Engineer :Tin Operation Mode :TX HIGH

EUT Pol. :E2 Plane Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
32.91	S	-54.67	-41.92	-11.98	-0.76	-13.00	-41.67
81.41	S	-65.55	-64.23	-0.26	-1.06	-13.00	-52.55
288.02	S	-71.44	-75.25	5.56	-1.74	-13.00	-58.44
359.80	S	-69.72	-73.64	5.88	-1.96	-13.00	-56.72
521.79	S	-69.93	-73.34	5.83	-2.42	-13.00	-56.93
704.15	S	-67.22	-70.14	5.52	-2.60	-13.00	-54.22
1646.20	Н	-58.94	-57.79	3.06	-4.21	-13.00	-45.94

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Radiated Spurious Emission Measurement Result: 1.4MHz BW LTE-Band 2(The Worst Case)

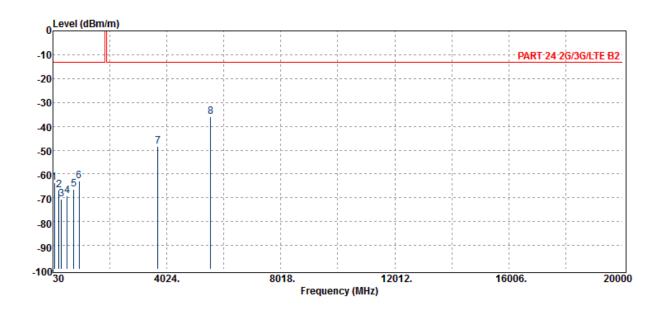
:CH 18607 16QAM BW Test Date **ARFCN** :2015-04-18 1.4 RB 15

Operation Band :LTE B2 Temp./Humi. :22 deg C / 51 RH

Fundamental Frequency :1850.7 MHz Engineer

Operation Mode :TX LOW

EUT Pol. :H Plane :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
79.47	S	-63.52	-61.71	-0.76	-1.05	-13.00	-50.52
239.52	S	-66.78	-70.61	5.44	-1.61	-13.00	-53.78
324.88	S	-70.69	-74.65	5.84	-1.88	-13.00	-57.69
523.73	S	-69.04	-72.43	5.83	-2.43	-13.00	-56.04
760.41	S	-66.34	-69.09	5.47	-2.72	-13.00	-53.34
949.56	S	-62.93	-65.11	5.38	-3.20	-13.00	-49.93
3701.40	Н	-48.34	-49.89	8.43	-6.88	-13.00	-35.34
5552.10	Н	-35.89	-37.45	10.10	-8.55	-13.00	-22.89

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:CH 18607 16QAM BW Test Date **ARFCN**

1.4 RB 15

:LTE B2 **Operation Band**

Fundamental Frequency :1850.7 MHz :TX LOW

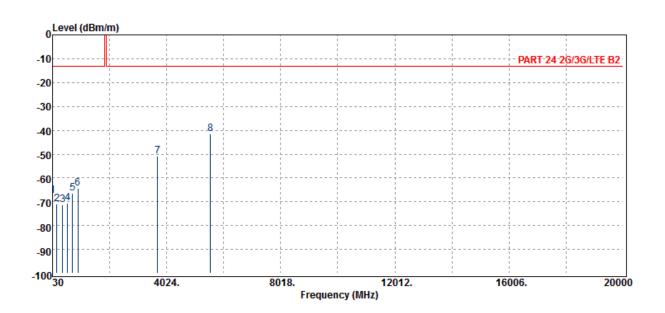
Operation Mode

EUT Pol. :H Plane :2015-04-18

Temp./Humi. :22 deg C / 51 RH

Engineer :Tin

Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
30.97	S	-67.54	-54.32	-12.47	-0.74	-13.00	-54.54
180.35	S	-71.02	-72.71	3.20	-1.50	-13.00	-58.02
378.23	S	-71.32	-75.20	5.83	-1.95	-13.00	-58.32
559.62	S	-70.45	-73.54	5.71	-2.62	-13.00	-57.45
734.22	S	-66.48	-69.28	5.46	-2.66	-13.00	-53.48
918.52	S	-64.20	-66.44	5.40	-3.16	-13.00	-51.20
3701.40	Н	-50.81	-52.35	8.43	-6.88	-13.00	-37.81
5552.10	Н	-41.47	-43.03	10.10	-8.55	-13.00	-28.47

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:CH 18900 16QAM BW Test Date **ARFCN**

1.4 RB 15

:LTE B2 **Operation Band**

Fundamental Frequency :1880.0 MHz :TX MID

Operation Mode

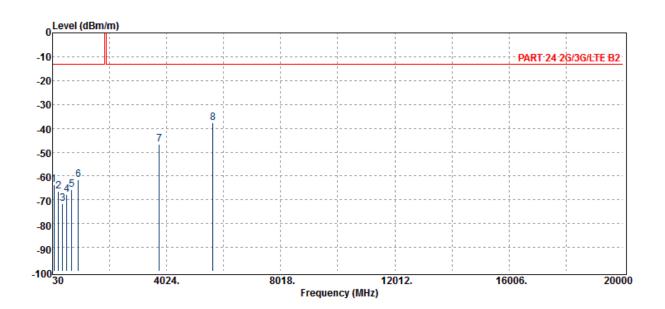
EUT Pol. :H Plane

:2015-04-18

Temp./Humi. :22 deg C / 51 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
83.35	S	-63.62	-62.76	0.20	-1.06	-13.00	-50.62
236.61	S	-66.31	-70.16	5.44	-1.60	-13.00	-53.31
378.23	S	-71.77	-75.65	5.83	-1.95	-13.00	-58.77
524.70	S	-67.78	-71.17	5.82	-2.44	-13.00	-54.78
702.21	S	-65.87	-68.80	5.53	-2.61	-13.00	-52.87
934.04	S	-61.74	-63.95	5.39	-3.18	-13.00	-48.74
3760.00	Н	-46.82	-48.26	8.46	-7.02	-13.00	-33.82
5640.00	Н	-37.63	-39.16	10.11	-8.59	-13.00	-24.63

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ARFCN

:TX MID

:H Plane

Operation Band

:LTE B2 Fundamental Frequency :1880.0 MHz

Operation Mode

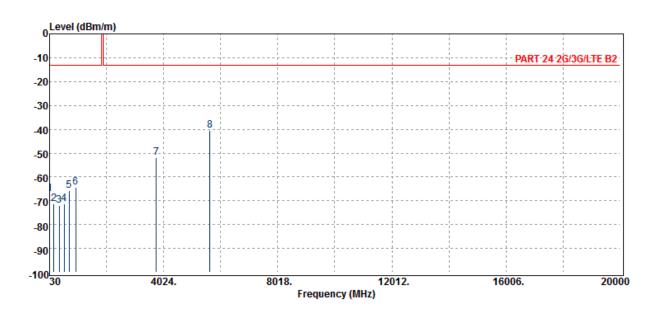
EUT Pol.

:CH 18900 16QAM BW Test Date :2015-04-18 1.4 RB 15

> Temp./Humi. :22 deg C / 51 RH

Engineer :Tin

Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
30.97	S	-67.16	-53.95	-12.47	-0.74	-13.00	-54.16
180.35	S	-71.32	-73.02	3.20	-1.50	-13.00	-58.32
368.53	S	-71.94	-75.84	5.86	-1.96	-13.00	-58.94
544.10	S	-71.25	-74.46	5.76	-2.54	-13.00	-58.25
714.82	S	-65.78	-68.67	5.50	-2.61	-13.00	-52.78
944.71	S	-64.49	-66.68	5.39	-3.20	-13.00	-51.49
3760.00	Н	-51.95	-53.39	8.46	-7.02	-13.00	-38.95
5640.00	Н	-40.31	-41.83	10.11	-8.59	-13.00	-27.31

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:2015-04-18

:22 deg C / 51 RH

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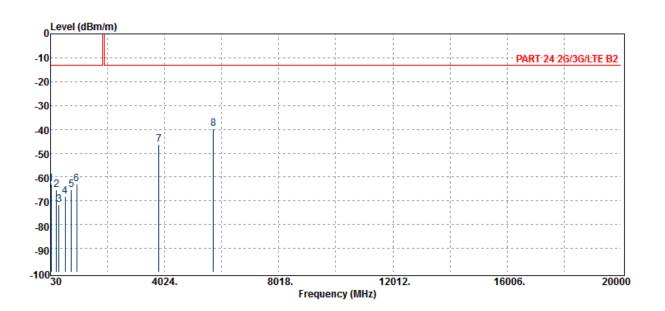
:CH 19193 16QAM BW Test Date **ARFCN**

1.4 RB 15

:LTE B2 Temp./Humi. **Operation Band**

Fundamental Frequency :1909.3 MHz Engineer :Tin Operation Mode :TX HIGH

EUT Pol. :H Plane :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
51.34	S	-63.14	-53.32	-8.90	-0.92	-13.00	-50.14
234.67	S	-65.43	-69.29	5.45	-1.59	-13.00	-52.43
323.91	S	-71.59	-75.55	5.84	-1.88	-13.00	-58.59
542.16	S	-68.21	-71.44	5.76	-2.53	-13.00	-55.21
758.47	S	-65.47	-68.22	5.46	-2.72	-13.00	-52.47
941.80	S	-62.96	-65.15	5.39	-3.19	-13.00	-49.96
3818.60	Н	-46.39	-47.84	8.50	-7.05	-13.00	-33.39
5727.90	Н	-39.91	-41.39	10.12	-8.64	-13.00	-26.91

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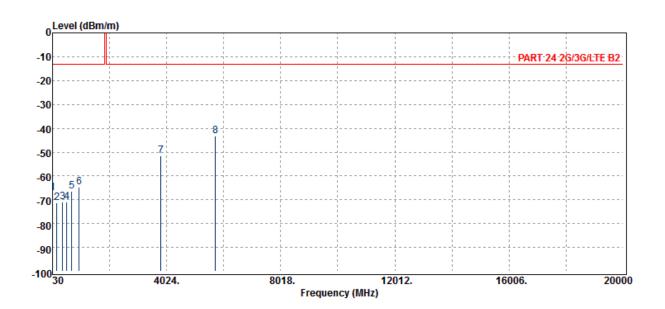
:CH 19193 16QAM BW Test Date **ARFCN**

:2015-04-18 1.4 RB 15

:LTE B2 Temp./Humi. :22 deg C / 51 RH **Operation Band**

Fundamental Frequency :1909.3 MHz Engineer :Tin Operation Mode :TX HIGH

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



Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
30.97	S	-67.21	-53.99	-12.47	-0.74	-13.00	-54.21
179.38	S	-71.26	-72.79	3.03	-1.50	-13.00	-58.26
379.20	S	-70.98	-74.86	5.83	-1.95	-13.00	-57.98
522.76	S	-70.79	-74.19	5.83	-2.43	-13.00	-57.79
701.24	S	-66.56	-69.48	5.53	-2.61	-13.00	-53.56
955.38	S	-64.83	-66.65	5.02	-3.21	-13.00	-51.83
3818.60	Н	-51.71	-53.15	8.50	-7.05	-13.00	-38.71
5727.90	Н	-43.15	-44.63	10.12	-8.64	-13.00	-30.15

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Radiated Spurious Emission Measurement Result: 1.4MHz BW LTE-Band 4 (The Worst Case)

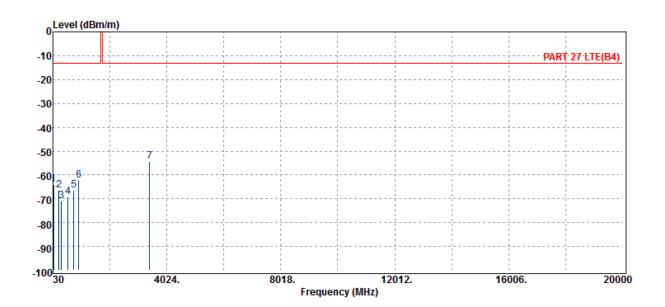
:CH 19957 16QAM BW Test Date **ARFCN** :2015-04-18 1.4 RB 1 5

Operation Band :LTE B4 Temp./Humi. :21 deg C / 52 RH

Fundamental Frequency :1710.7 MHz Engineer :Curry

Operation Mode :TX LOW

EUT Pol. :H Plane :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
52.31	S	-64.17	-54.62	-8.63	-0.92	-13.00	-51.17
237.58	S	-66.49	-70.33	5.44	-1.60	-13.00	-53.49
323.91	S	-71.06	-75.02	5.84	-1.88	-13.00	-58.06
550.89	S	-69.16	-72.32	5.73	-2.58	-13.00	-56.16
758.47	S	-66.33	-69.07	5.46	-2.72	-13.00	-53.33
939.86	S	-62.32	-64.52	5.39	-3.19	-13.00	-49.32
3421.40	Н	-54.25	-55.79	8.08	-6.54	-13.00	-41.25

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:HORIZONTAL

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:CH 19957 16QAM BW Test Date **ARFCN**

:H Plane

:2015-04-18 1.4 RB 1 5

:LTE B4 **Operation Band**

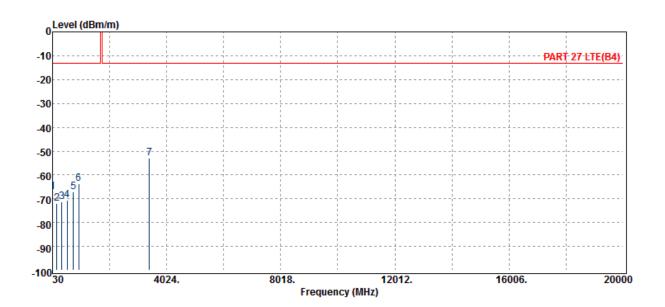
Temp./Humi. :21 deg C / 52 RH :1710.7 MHz Engineer :Curry

Measurement Antenna Pol.

Fundamental Frequency Operation Mode

EUT Pol.

:TX LOW



Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
31.94	S	-67.06	-54.08	-12.22	-0.75	-13.00	-54.06
180.35	S	-71.82	-73.51	3.20	-1.50	-13.00	-58.82
359.80	S	-71.40	-75.32	5.88	-1.96	-13.00	-58.40
537.31	S	-70.43	-73.70	5.78	-2.51	-13.00	-57.43
758.47	S	-66.99	-69.74	5.46	-2.72	-13.00	-53.99
954.41	S	-63.65	-65.53	5.09	-3.21	-13.00	-50.65
3421.40	Н	-52.86	-54.39	8.08	-6.54	-13.00	-39.86

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:CH 20175 16QAM BW Test Date **ARFCN**

1.4 RB 1 5

:LTE B4 Temp./Humi. :2015-04-18

:21 deg C / 52 RH

Operation Band

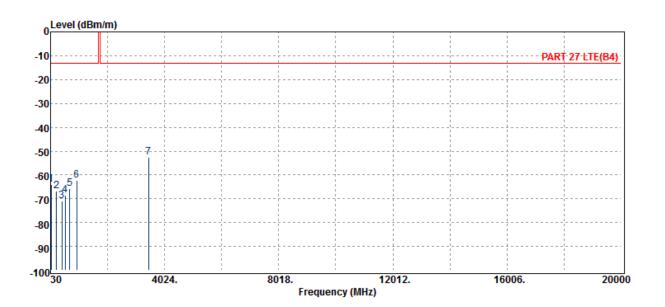
Fundamental Frequency Operation Mode

:TX MID

:1732.5 MHz

Engineer :Curry

EUT Pol. :H Plane :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
52.31	S	-64.01	-54.46	-8.63	-0.92	-13.00	-51.01
237.58	S	-66.80	-70.64	5.44	-1.60	-13.00	-53.80
424.79	S	-71.04	-74.68	5.63	-1.99	-13.00	-58.04
549.92	S	-68.44	-71.60	5.74	-2.57	-13.00	-55.44
704.15	S	-65.85	-68.76	5.52	-2.60	-13.00	-52.85
946.65	S	-62.31	-64.50	5.39	-3.20	-13.00	-49.31
3465.00	Н	-52.76	-54.43	8.20	-6.53	-13.00	-39.76

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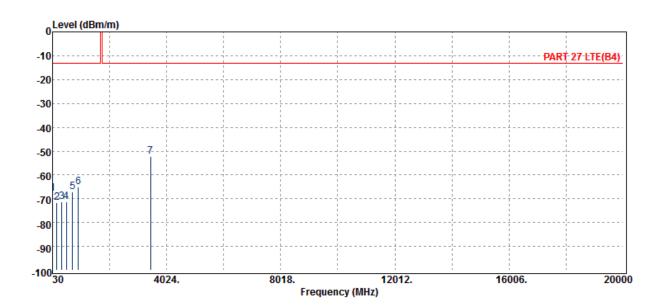
:CH 20175 16QAM BW Test Date **ARFCN**

:2015-04-18 1.4 RB 1 5

:LTE B4 Temp./Humi. :21 deg C / 52 RH **Operation Band** Fundamental Frequency

:1732.5 MHz Engineer :Curry Operation Mode :TX MID

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



Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
30.97	S	-67.68	-54.46	-12.47	-0.74	-13.00	-54.68
180.35	S	-71.65	-73.34	3.20	-1.50	-13.00	-58.65
360.77	S	-71.24	-75.15	5.88	-1.96	-13.00	-58.24
512.09	S	-71.22	-74.71	5.87	-2.37	-13.00	-58.22
730.34	S	-67.07	-69.89	5.47	-2.65	-13.00	-54.07
935.01	S	-64.99	-67.20	5.39	-3.18	-13.00	-51.99
3465.00	Н	-52.17	-53.84	8.20	-6.53	-13.00	-39.17

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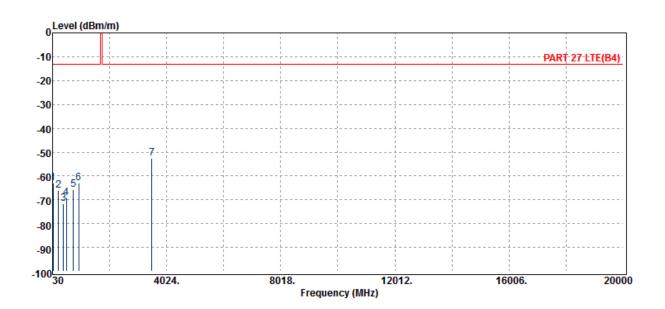
:CH 20393 16QAM BW Test Date **ARFCN**

:2015-04-18 1.4 RB 1 5

:LTE B4 Temp./Humi. :21 deg C / 52 RH **Operation Band**

Fundamental Frequency :1754.3 MHz Engineer :Curry Operation Mode :TX HIGH

EUT Pol. :H Plane :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
52.31	S	-62.92	-53.37	-8.63	-0.92	-13.00	-49.92
237.58	S	-66.20	-70.04	5.44	-1.60	-13.00	-53.20
419.94	S	-71.69	-75.38	5.66	-1.97	-13.00	-58.69
519.85	S	-69.21	-72.64	5.84	-2.41	-13.00	-56.21
756.53	S	-65.87	-68.61	5.45	-2.71	-13.00	-52.87
946.65	S	-62.84	-65.03	5.39	-3.20	-13.00	-49.84
3508.60	Н	-52.54	-54.15	8.31	-6.69	-13.00	-39.54

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:2015-04-18

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:CH 20393 16QAM BW Test Date **ARFCN**

1.4 RB 1 5

:LTE B4 **Operation Band** Fundamental Frequency

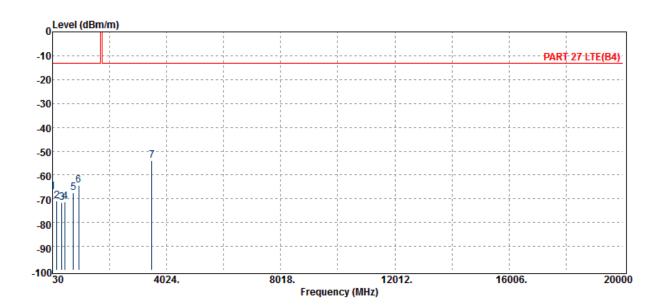
:1754.3 MHz

Operation Mode :TX HIGH EUT Pol. :H Plane

Temp./Humi. :21 deg C / 52 RH

Engineer :Curry

Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
30.97	S	-67.29	-54.08	-12.47	-0.74	-13.00	-54.29
180.35	S	-70.92	-72.62	3.20	-1.50	-13.00	-57.92
359.80	S	-71.52	-75.44	5.88	-1.96	-13.00	-58.52
467.47	S	-71.12	-74.65	5.64	-2.12	-13.00	-58.12
760.41	S	-67.39	-70.14	5.47	-2.72	-13.00	-54.39
944.71	S	-64.47	-66.66	5.39	-3.20	-13.00	-51.47
3508.60	Н	-53.99	-55.60	8.31	-6.69	-13.00	-40.99

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Radiated Spurious Emission Measurement Result: 3MHz BW LTE-Band 5 (The Worst Case)

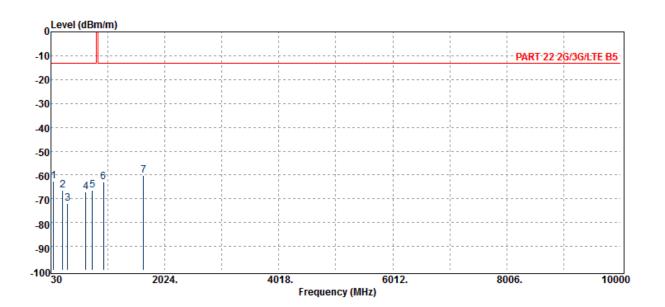
:CH 20415 16QAM BW 3 Test Date **ARFCN** :2015-04-18 RB 10

Operation Band :LTE B5 Temp./Humi. :21 deg C / 52 RH

Fundamental Frequency :825.5 MHz Engineer :Tin

Operation Mode :TX LOW

EUT Pol. :E2 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
79.47	S	-62.65	-58.69	-2.91	-1.05	-13.00	-49.65
238.55	S	-66.46	-68.14	3.29	-1.60	-13.00	-53.46
324.88	S	-71.89	-73.70	3.69	-1.88	-13.00	-58.89
639.16	S	-67.08	-68.01	3.60	-2.68	-13.00	-54.08
751.68	S	-66.45	-67.03	3.29	-2.70	-13.00	-53.45
949.56	S	-63.03	-63.06	3.23	-3.20	-13.00	-50.03
1651.00	Н	-60.29	-59.12	3.05	-4.22	-13.00	-47.29

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:CH 20415 16QAM BW 3 Test Date **ARFCN**

RB 10

:2015-04-18

Operation Band

:LTE B5 :825.5 MHz Temp./Humi. :21 deg C / 52 RH

Fundamental Frequency

Engineer

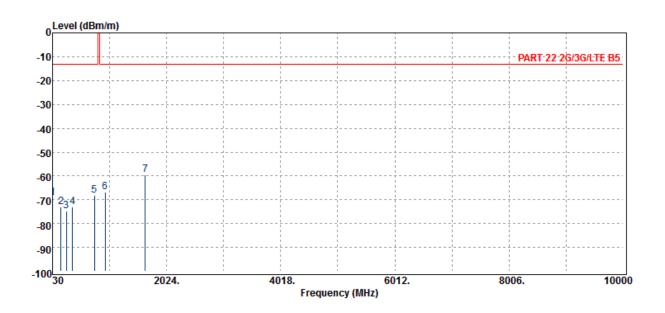
:Tin

Operation Mode EUT Pol.

:TX LOW :E2 Plane

Measurement Antenna Pol.

:HORIZONTAL



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
31.94	S	-69.24	-54.11	-14.37	-0.75	-13.00	-56.24
180.35	S	-73.10	-72.64	1.05	-1.50	-13.00	-60.10
268.62	S	-74.67	-76.60	3.62	-1.69	-13.00	-61.67
378.23	S	-73.04	-74.77	3.68	-1.95	-13.00	-60.04
764.29	S	-68.25	-68.85	3.33	-2.73	-13.00	-55.25
950.53	S	-66.66	-66.66	3.20	-3.20	-13.00	-53.66
1651.00	Н	-59.62	-58.46	3.05	-4.22	-13.00	-46.62

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:Tin

:CH 20525 16QAM BW 3 Test Date **ARFCN**

RB 10

:LTE B5

:2015-04-18

Operation Band

:836.5 MHz

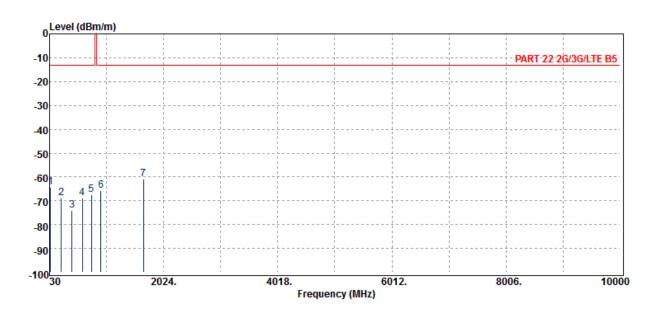
Temp./Humi. :21 deg C / 52 RH

Fundamental Frequency Operation Mode

:TX MID

EUT Pol. :E2 Plane

:VERTICAL Measurement Antenna Pol.



Engineer

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
51.34	S	-64.38	-52.42	-11.05	-0.92	-13.00	-51.38
237.58	S	-68.97	-70.66	3.29	-1.60	-13.00	-55.97
420.91	S	-74.21	-75.73	3.50	-1.98	-13.00	-61.21
604.24	S	-68.93	-69.65	3.46	-2.74	-13.00	-55.93
763.32	S	-67.37	-67.97	3.33	-2.73	-13.00	-54.37
925.31	S	-65.75	-65.83	3.25	-3.17	-13.00	-52.75
1673.00	Н	-60.89	-59.64	3.01	-4.26	-13.00	-47.89

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:Tin

:CH 20525 16QAM BW 3 Test Date **ARFCN**

RB 10

:2015-04-18

Operation Band

:LTE B5

:TX MID

:E2 Plane

:836.5 MHz

Temp./Humi. :21 deg C / 52 RH

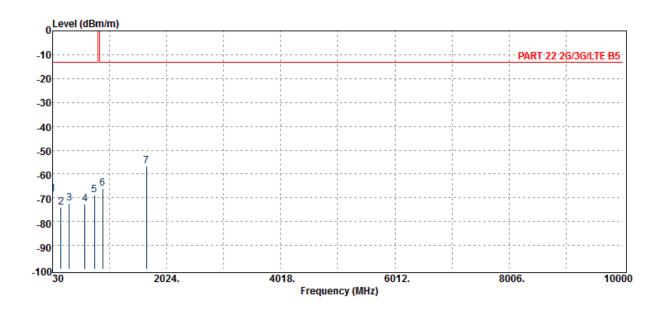
Fundamental Frequency

Engineer

Operation Mode EUT Pol.

Measurement Antenna Pol.

:HORIZONTAL



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
31.94	S	-68.42	-53.29	-14.37	-0.75	-13.00	-55.42
181.32	S	-73.89	-73.60	1.21	-1.50	-13.00	-60.89
323.91	S	-72.36	-74.17	3.69	-1.88	-13.00	-59.36
597.45	S	-72.70	-73.40	3.45	-2.75	-13.00	-59.70
765.26	S	-68.87	-69.47	3.33	-2.73	-13.00	-55.87
903.97	S	-66.02	-66.15	3.26	-3.13	-13.00	-53.02
1673.00	Н	-56.61	-55.36	3.01	-4.26	-13.00	-43.61

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:CH 20643 16QAM BW 3 Test Date **ARFCN**

RB 10

:2015-04-18

Operation Band Fundamental Frequency

:LTE B5 :848.3 MHz

:TX HIGH

Temp./Humi. :21 deg C / 52 RH

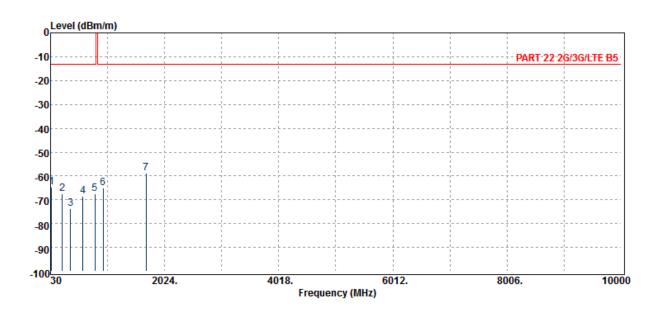
Engineer

:Tin

Operation Mode EUT Pol.

:E2 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
171112	1711/2/15	dDIII	UD III	u.Du	42	uDIII	42
51.34	S	-64.65	-52.68	-11.05	-0.92	-13.00	-51.65
237.58	S	-67.64	-69.33	3.29	-1.60	-13.00	-54.64
378.23	S	-73.82	-75.54	3.68	-1.95	-13.00	-60.82
597.45	S	-68.60	-69.29	3.45	-2.75	-13.00	-55.60
806.00	S	-67.60	-68.17	3.45	-2.87	-13.00	-54.60
949.56	S	-65.12	-65.15	3.23	-3.20	-13.00	-52.12
1696.60	Н	-58.99	-57.68	2.96	-4.28	-13.00	-45.99

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:CH 20643 16QAM BW 3 Test Date **ARFCN**

RB 10

:LTE B5

:TX HIGH

:2015-04-18

Fundamental Frequency

:848.3 MHz

:21 deg C / 52 RH

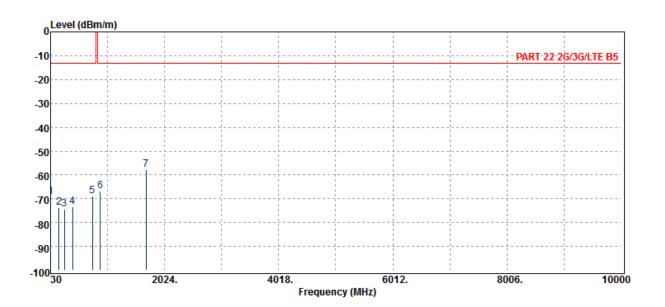
Operation Band

Engineer :Tin

Operation Mode EUT Pol.

:E2 Plane Measurement Antenna Pol. :HORIZONTAL

Temp./Humi.



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
31.94	S	-69.19	-54.06	-14.37	-0.75	-13.00	-56.19
179.38	S	-73.61	-73.00	0.88	-1.50	-13.00	-60.61
268.62	S	-74.53	-76.46	3.62	-1.69	-13.00	-61.53
413.15	S	-73.27	-74.86	3.55	-1.95	-13.00	-60.27
759.44	S	-68.93	-69.53	3.31	-2.72	-13.00	-55.93
896.21	S	-66.94	-67.10	3.28	-3.12	-13.00	-53.94
1696.60	Н	-57.80	-56.49	2.96	-4.28	-13.00	-44.80

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Radiated Spurious Emission Measurement Result: 5MHz BW LTE-Band 13(The Worst Case)

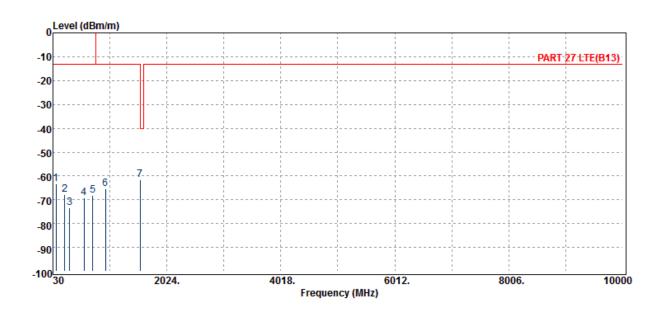
:CH 23205 16QAM BW 5 Test Date **ARFCN** RB1 24

Operation Band :LTE B13 Temp./Humi. :23 deg C / 52 RH

Fundamental Frequency :779.5 MHz Engineer :Tin

Operation Mode :TX LOW

EUT Pol. :E2 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
81.41	S	-63.16	-59.69	-2.41	-1.06	-13.00	-50.16
235.64	S	-67.87	-69.57	3.30	-1.59	-13.00	-54.87
323.91	S	-73.36	-75.17	3.69	-1.88	-13.00	-60.36
577.08	S	-69.14	-69.95	3.51	-2.70	-13.00	-56.14
726.46	S	-68.21	-68.90	3.33	-2.64	-13.00	-55.21
948.59	S	-65.26	-65.29	3.24	-3.20	-13.00	-52.26
1559.00	Н	-61.65	-60.77	3.23	-4.11	-40.00	-21.65

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:2015-04-18

:Tin

:23 deg C / 52 RH

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:CH 23205 16QAM BW 5 Test Date **ARFCN**

RB1 24

Operation Band

:LTE B13

Fundamental Frequency

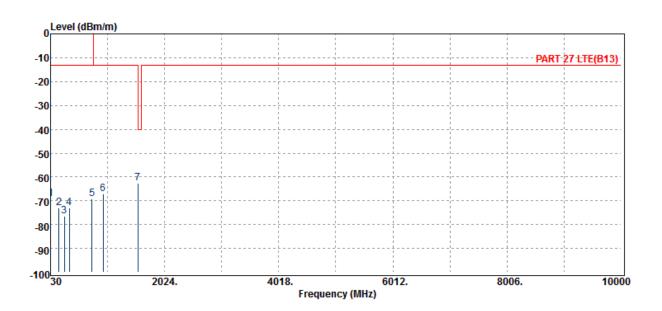
:779.5 MHz :TX LOW

Operation Mode EUT Pol.

:E2 Plane Measurement Antenna Pol. :HORIZONTAL

Engineer

Temp./Humi.



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
30.97	S	-69.36	-53.99	-14.62	-0.74	-13.00	-56.36
180.35	S	-73.18	-72.72	1.05	-1.50	-13.00	-60.18
270.56	S	-76.36	-78.26	3.59	-1.69	-13.00	-63.36
360.77	S	-72.93	-74.69	3.73	-1.96	-13.00	-59.93
751.68	S	-69.10	-69.69	3.29	-2.70	-13.00	-56.10
946.65	S	-67.10	-67.14	3.24	-3.20	-13.00	-54.10
1559.00	Н	-62.78	-61.90	3.23	-4.11	-40.00	-22.78

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:CH 23230 16QAM BW 5 Test Date **ARFCN**

RB1 24

:LTE B13 **Operation Band**

:782.0 MHz

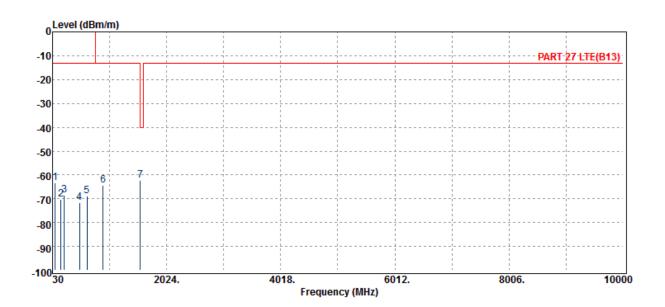
Fundamental Frequency

Operation Mode :TX MID EUT Pol. :E2 Plane :2015-04-18

Temp./Humi. :23 deg C / 52 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
80.44	S	-63.46	-59.76	-2.65	-1.05	-13.00	-50.46
180.35	S	-70.21	-69.75	1.05	-1.50	-13.00	-57.21
236.61	S	-68.45	-70.14	3.29	-1.60	-13.00	-55.45
504.33	S	-71.61	-73.03	3.74	-2.33	-13.00	-58.61
629.46	S	-68.95	-69.82	3.56	-2.69	-13.00	-55.95
911.73	S	-64.42	-64.53	3.26	-3.15	-13.00	-51.42
1564.00	Н	-62.45	-61.56	3.22	-4.11	-40.00	-22.45

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:CH 23230 16QAM BW 5 Test Date **ARFCN**

RB1 24

:LTE B13 **Operation Band**

Fundamental Frequency :782.0 MHz :TX MID

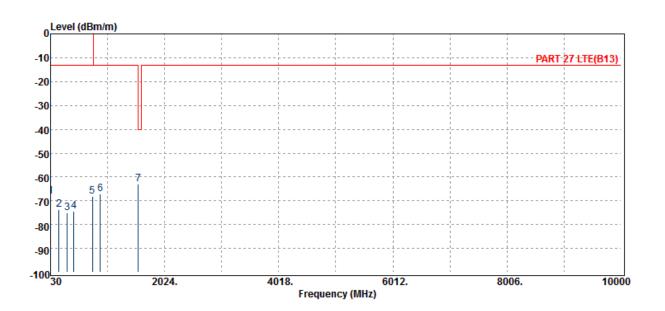
Operation Mode

EUT Pol. :E2 Plane :2015-04-18

Temp./Humi. :23 deg C / 52 RH

Engineer :Tin

Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
30.97	S	-68.10	-52.74	-14.62	-0.74	-13.00	-55.10
180.35	S	-73.79	-73.34	1.05	-1.50	-13.00	-60.79
323.91	S	-74.95	-76.76	3.69	-1.88	-13.00	-61.95
435.46	S	-74.26	-75.66	3.42	-2.02	-13.00	-61.26
760.41	S	-68.22	-68.82	3.32	-2.72	-13.00	-55.22
901.06	S	-67.13	-67.27	3.26	-3.13	-13.00	-54.13
1564.00	Н	-62.96	-62.07	3.22	-4.11	-40.00	-22.96

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ARFCN

RB1 24

:LTE B13 **Operation Band**

Fundamental Frequency :784.5 MHz

Operation Mode

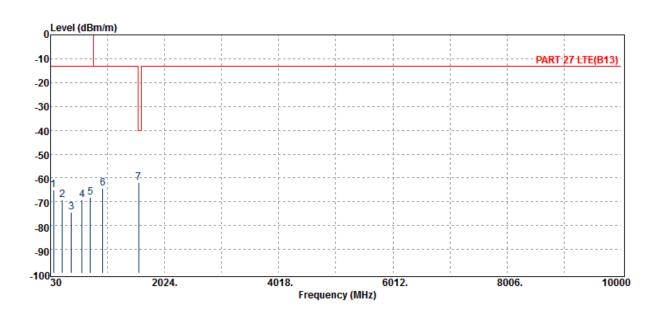
:TX HIGH EUT Pol. :E2 Plane

:CH 23255 16QAM BW 5 Test Date :2015-04-17

> Temp./Humi. :23 deg C / 52 RH

Engineer :Tin

:VERTICAL Measurement Antenna Pol.



I	Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
				Output Level	Gain	Loss		
1	MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
8	32.38	S	-65.06	-61.82	-2.18	-1.06	-13.00	-52.06
2	34.67	S	-69.22	-70.92	3.30	-1.59	-13.00	-56.22
3	95.69	S	-74.23	-75.92	3.63	-1.95	-13.00	-61.23
5	79.99	S	-69.13	-69.91	3.50	-2.72	-13.00	-56.13
7	25.49	S	-68.29	-68.98	3.33	-2.64	-13.00	-55.29
9	43.74	S	-64.41	-64.45	3.24	-3.19	-13.00	-51.41
15	569.00	Н	-61.79	-60.88	3.21	-4.11	-40.00	-21.79

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:CH 23255 16QAM BW 5 Test Date **ARFCN**

RB1 24

Operation Band

:LTE B13

Fundamental Frequency

:784.5 MHz :TX HIGH

Operation Mode EUT Pol.

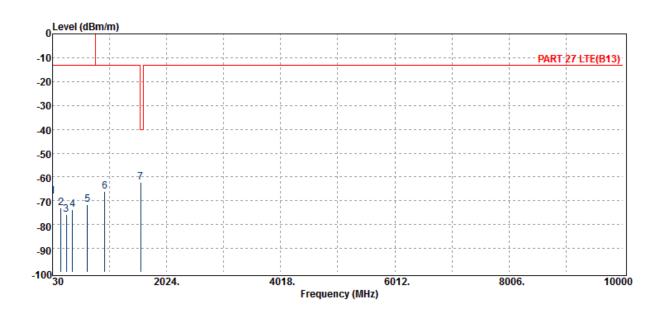
:E2 Plane

:2015-04-17

Temp./Humi. :23 deg C / 52 RH

Engineer :Tin

Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
30.97	S	-68.10	-52.74	-14.62	-0.74	-13.00	-55.10
180.35	S	-72.89	-72.44	1.05	-1.50	-13.00	-59.89
269.59	S	-75.76	-77.68	3.61	-1.69	-13.00	-62.76
379.20	S	-73.77	-75.49	3.68	-1.95	-13.00	-60.77
639.16	S	-71.47	-72.39	3.60	-2.68	-13.00	-58.47
945.68	S	-66.03	-66.07	3.24	-3.20	-13.00	-53.03
1569.00	Н	-62.38	-61.48	3.21	-4.11	-40.00	-22.38

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Radiated Spurious Emission Measurement Result: 5MHz BW LTE-Band 13(763MHz-755MHz)

:CH 23205 16QAM BW 5 Test Date **ARFCN** RB1 24

:2015-04-18

Operation Band

:LTE B13

Temp./Humi. :21 deg C / 51 RH

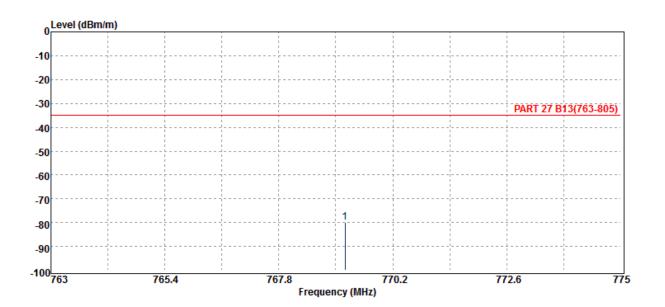
Fundamental Frequency

:779.5 MHz

Engineer :Tin

Operation Mode :TX LOW EUT Pol. :E2 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
769.19	S	-79.94	-80.55	3.34	-2.74	-35.00	-44.94

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:CH 23205 16QAM BW 5 Test Date **ARFCN**

RB1 24

Operation Band

:LTE B13

:779.5 MHz

Fundamental Frequency Operation Mode

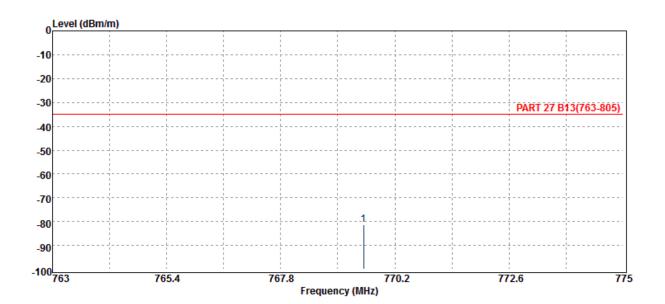
:TX LOW EUT Pol. :E2 Plane

:2015-04-18

Temp./Humi. :21 deg C / 51 RH

Engineer :Tin

Measurement Antenna Pol. :HORIZONTAL



	Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
				Output Level	Gain	Loss		
_	MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
	769.54	S	-81.22	-81.82	3.35	-2.74	-35.00	-46.22

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:CH 23230 16QAM BW 5 Test Date **ARFCN**

RB1 24

:LTE B13 **Operation Band**

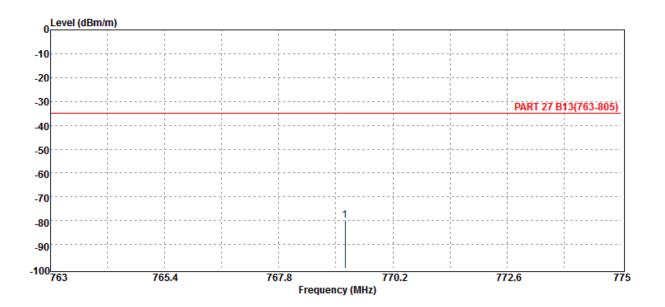
Fundamental Frequency :782.0 MHz Operation Mode

:TX MID EUT Pol. :E2 Plane :2015-04-18

Temp./Humi. :21 deg C / 51 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
769.19	S	-79.94	-80.55	3.34	-2.74	-35.00	-44.94

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:CH 23230 16QAM BW **ARFCN**

5 RB1 24

Operation Band

:LTE B13

Fundamental Frequency Operation Mode

:782.0 MHz :TX MID

EUT Pol.

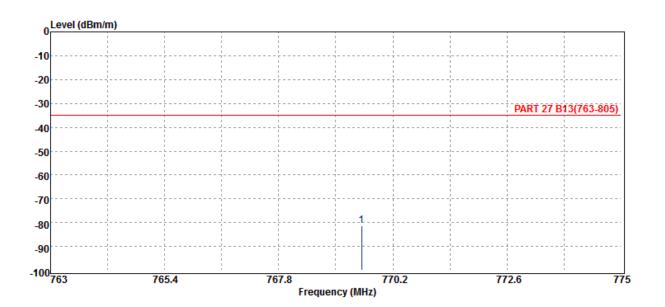
:E2 Plane

Test Date :2015-04-18

Temp./Humi. :21 deg C / 51 RH

Engineer :Tin

Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
769.54	S	-81.22	-81.82	3.35	-2.74	-35.00	-46.22

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:CH 23255 16QAM BW 5 Test Date **ARFCN**

RB1 24

:LTE B13 **Operation Band**

:784.5 MHz

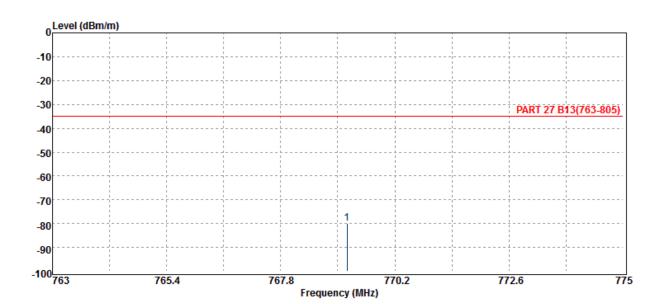
Fundamental Frequency

Operation Mode :TX HIGH

:2015-04-18 Temp./Humi. :21 deg C / 51 RH

Engineer :Tin

EUT Pol. :E2 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
769.19	S	-79.94	-80.55	3.34	-2.74	-35.00	-44.94

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:CH 23255 16QAM BW 5 Test Date **ARFCN**

RB1 24

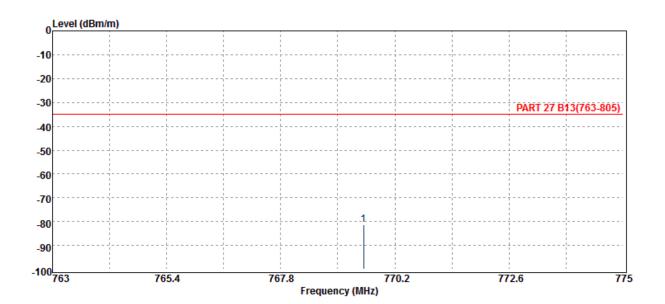
:LTE B13 **Operation Band**

Temp./Humi. :21 deg C / 51 RH

Engineer :Tin

Fundamental Frequency :784.5 MHz Operation Mode :TX HIGH

EUT Pol. :E2 Plane Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
769.54	S	-81.22	-81.82	3.35	-2.74	-35.00	-46.22

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Radiated Spurious Emission Measurement Result: 5MHz BW LTE-Band 13(793MHz-805MHz)

:CH 23205 16QAM BW 5 Test Date **ARFCN** RB1 24

:2015-04-18

Operation Band

:LTE B13

Temp./Humi. :21 deg C / 51 RH

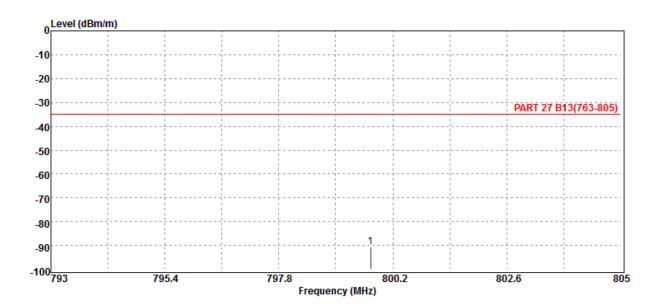
Fundamental Frequency

:779.5 MHz

Engineer :Tin

Operation Mode :TX LOW EUT Pol. :E2 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
799.73	S	-90.56	-91.15	3.44	-2.85	-35.00	-55.56

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Report No.: ER/2015/40020 Issue Date: Jun. 04, 2015

:2015-04-18

:Tin

:21 deg C / 51 RH

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:CH 23205 16QAM BW 5 Test Date **ARFCN**

RB1 24

:LTE B13 **Operation Band**

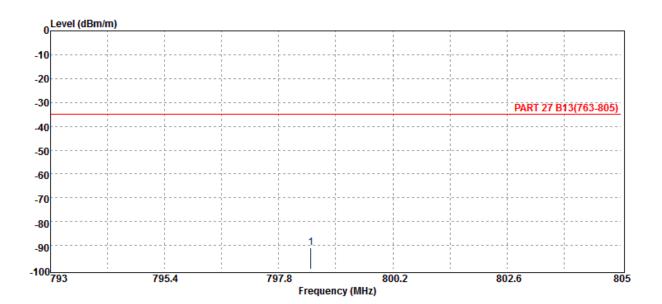
Fundamental Frequency :779.5 MHz

Operation Mode :TX LOW

EUT Pol. :E2 Plane Measurement Antenna Pol. :HORIZONTAL

Temp./Humi.

Engineer



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
798.47	S	-91.08	-91.68	3.44	-2.85	-35.00	-56.08

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:CH 23230 16QAM BW 5 Test Date **ARFCN**

RB1 24

Operation Band

:LTE B13 :782.0 MHz

Fundamental Frequency Operation Mode

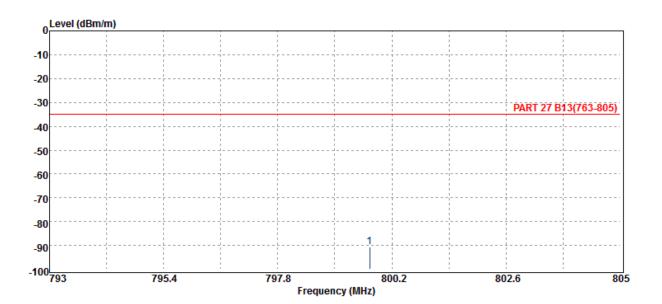
:TX MID

EUT Pol. :E2 Plane :2015-04-18

Temp./Humi. :21 deg C / 51 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
799.73	S	-90.56	-91.15	3.44	-2.85	-35.00	-55.56

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Report No.: ER/2015/40020 Issue Date: Jun. 04, 2015

:2015-04-18

:Tin

:21 deg C / 51 RH

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:CH 23230 16QAM BW 5 Test Date **ARFCN**

RB1 24

:LTE B13 **Operation Band**

Fundamental Frequency :782.0 MHz

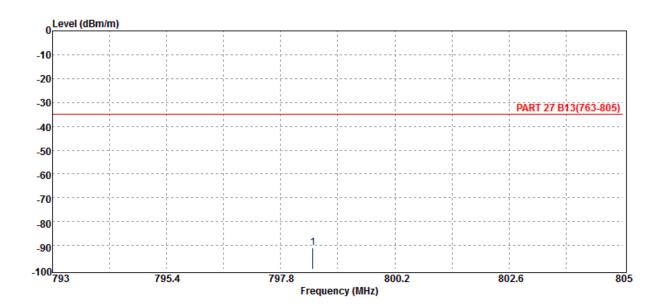
Operation Mode

:TX MID

EUT Pol. :E2 Plane Measurement Antenna Pol. :HORIZONTAL

Temp./Humi.

Engineer



	Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
				Output Level	Gain	Loss		
_	MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
	798.47	S	-91.08	-91.68	3.44	-2.85	-35.00	-56.08

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:CH 23255 16QAM BW 5 Test Date **ARFCN**

RB1 24

Operation Band

:LTE B13

Fundamental Frequency

:784.5 MHz :TX HIGH

Operation Mode EUT Pol.

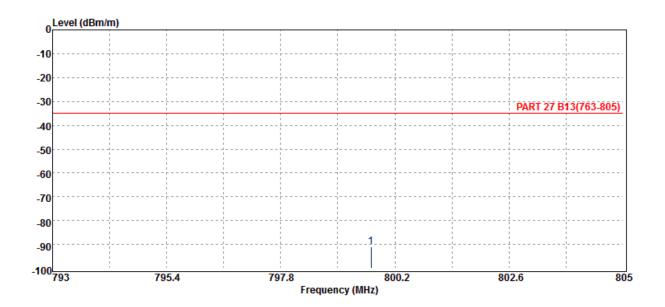
:E2 Plane

:2015-04-18

Temp./Humi. :21 deg C / 51 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
799.70	S	-91.16	-91.75	3.44	-2.85	-35.00	-56.16

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:CH 23255 16QAM BW 5 Test Date **ARFCN**

RB1 24

:LTE B13 **Operation Band**

Fundamental Frequency :784.5 MHz :TX HIGH

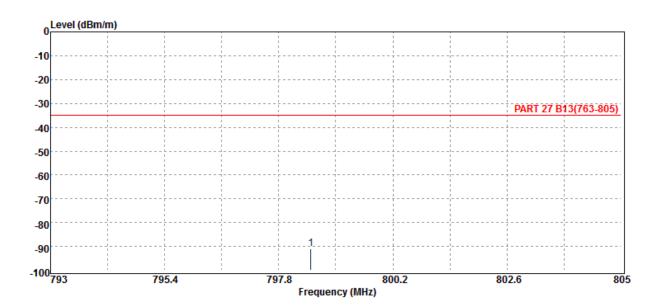
Operation Mode

EUT Pol. :E2 Plane :2015-04-18

Temp./Humi. :21 deg C / 51 RH

Engineer :Tin

Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
798.47	S	-91.08	-91.68	3.44	-2.85	-35.00	-56.08

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Report No.: ER/2015/40020 Issue Date: Jun. 04, 2015

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Radiated Spurious Emission Measurement Result: 5MHz BW LTE-Band 17 (The Worst Case)

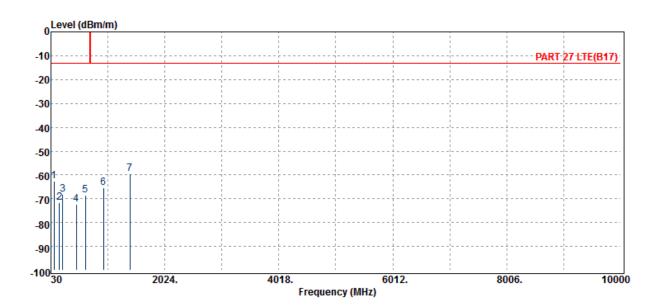
:CH 23755 16QAM BW 5 Test Date **ARFCN** :2015-04-18 RB1 24

Operation Band :LTE B17 Temp./Humi. :23 deg C / 52 RH

Fundamental Frequency :706.5 MHz Engineer :Tin

Operation Mode :TX LOW

EUT Pol. :E2 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
81.41	S	-62.76	-59.29	-2.41	-1.06	-13.00	-49.76
181.32	S	-71.70	-71.41	1.21	-1.50	-13.00	-58.70
237.58	S	-68.32	-70.01	3.29	-1.60	-13.00	-55.32
477.17	S	-72.38	-73.79	3.58	-2.17	-13.00	-59.38
633.34	S	-68.50	-69.39	3.57	-2.69	-13.00	-55.50
951.50	S	-65.46	-65.39	3.13	-3.20	-13.00	-52.46
1413.00	Н	-59.68	-58.58	2.85	-3.94	-13.00	-46.68

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:CH 23755 16QAM BW 5 Test Date **ARFCN**

RB1 24

:LTE B17

Temp./Humi.

:2015-04-18

Operation Band

:706.5 MHz

:23 deg C / 52 RH

Fundamental Frequency

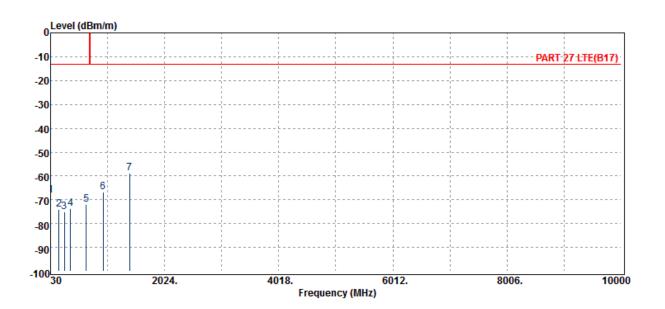
:TX LOW

Engineer :Tin

Operation Mode

EUT Pol. :E2 Plane

Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
30.97	S	-68.07	-52.71	-14.62	-0.74	-13.00	-55.07
179.38	S	-74.11	-73.49	0.88	-1.50	-13.00	-61.11
271.53	S	-75.13	-77.00	3.56	-1.70	-13.00	-62.13
378.23	S	-73.61	-75.34	3.68	-1.95	-13.00	-60.61
650.80	S	-71.89	-72.86	3.63	-2.66	-13.00	-58.89
951.50	S	-66.70	-66.63	3.13	-3.20	-13.00	-53.70
1413.00	Н	-58.96	-57.86	2.85	-3.94	-13.00	-45.96

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:CH 23790 16QAM BW 5 Test Date **ARFCN**

RB1 24

:LTE B17 **Operation Band**

:710 MHz

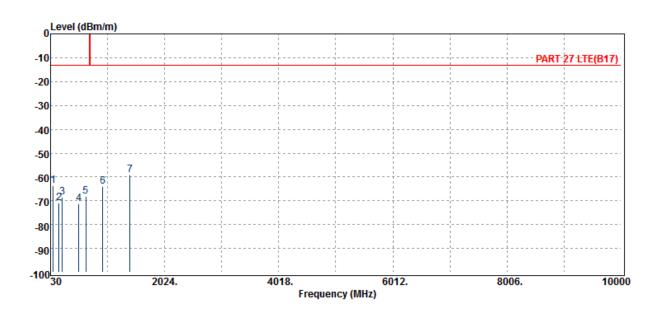
Fundamental Frequency Operation Mode

:TX MID EUT Pol. :E2 Plane :2015-04-18

Temp./Humi. :23 deg C / 52 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
79.47	S	-63.58	-59.62	-2.91	-1.05	-13.00	-50.58
180.35	S	-70.96	-70.50	1.05	-1.50	-13.00	-57.96
234.67	S	-68.67	-70.38	3.30	-1.59	-13.00	-55.67
526.64	S	-71.28	-72.49	3.67	-2.45	-13.00	-58.28
645.95	S	-68.20	-69.16	3.62	-2.66	-13.00	-55.20
941.80	S	-64.17	-64.22	3.24	-3.19	-13.00	-51.17
1420.00	Н	-59.30	-58.24	2.89	-3.96	-13.00	-46.30

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:2015-04-18

:Tin

:23 deg C / 52 RH

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:CH 23790 16QAM BW 5 Test Date **ARFCN**

RB1 24

:LTE B17 **Operation Band**

Fundamental Frequency :710 MHz

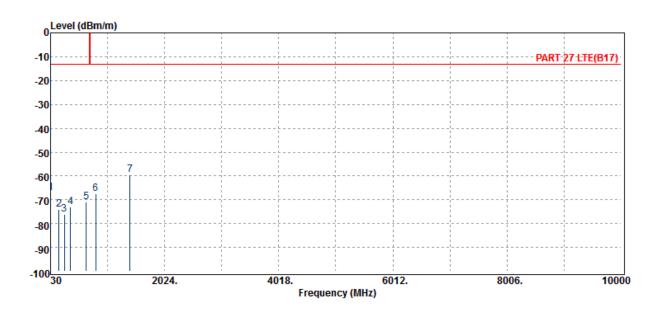
Operation Mode

:TX MID

EUT Pol. :E2 Plane Measurement Antenna Pol. :HORIZONTAL

Temp./Humi.

Engineer



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
31.94	S	-67.16	-52.03	-14.37	-0.75	-13.00	-54.16
179.38	S	-73.90	-73.28	0.88	-1.50	-13.00	-60.90
273.47	S	-76.25	-78.05	3.51	-1.70	-13.00	-63.25
378.23	S	-72.99	-74.72	3.68	-1.95	-13.00	-59.99
652.74	S	-70.86	-71.83	3.62	-2.65	-13.00	-57.86
821.52	S	-67.34	-67.86	3.45	-2.93	-13.00	-54.34
1420.00	Н	-59.42	-58.35	2.89	-3.96	-13.00	-46.42

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ARFCN

RB1 24

:E2 Plane

:LTE B17 **Operation Band**

Fundamental Frequency

Operation Mode EUT Pol.

:CH 23825 16QAM BW 5 Test Date

:2015-04-18

Temp./Humi.

:23 deg C / 52 RH

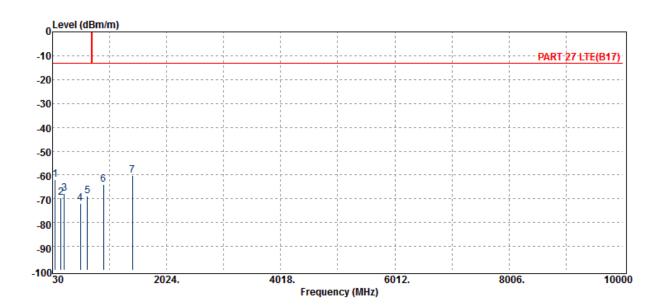
Engineer

:Tin

:713.5 MHz :TX HIGH

Measurement Antenna Pol.

:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
IVIIIZ	17/11/12/13	UDIII	QDIII	dDd	ŲD	QDIII	<u>ub</u>
80.44	S	-61.92	-58.21	-2.65	-1.05	-13.00	-48.92
180.35	S	-69.69	-69.23	1.05	-1.50	-13.00	-56.69
235.64	S	-67.86	-69.57	3.30	-1.59	-13.00	-54.86
515.97	S	-71.83	-73.14	3.70	-2.39	-13.00	-58.83
641.10	S	-68.75	-69.68	3.60	-2.67	-13.00	-55.75
920.46	S	-63.99	-64.09	3.25	-3.16	-13.00	-50.99
1427.00	Н	-60.09	-59.06	2.93	-3.97	-13.00	-47.09

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:CH 23825 16QAM BW 5 Test Date **ARFCN**

RB1 24

Operation Band

:LTE B17 :713.5 MHz

Fundamental Frequency Operation Mode

:TX HIGH

EUT Pol.

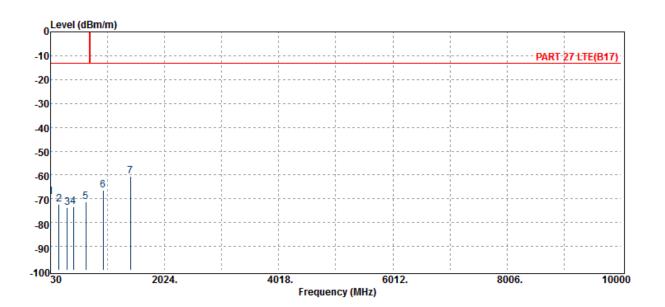
:E2 Plane

:2015-04-18

Temp./Humi. :23 deg C / 52 RH

Engineer :Tin

Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
30.97	S	-69.21	-53.85	-14.62	-0.74	-13.00	-56.21
180.35	S	-72.21	-71.76	1.05	-1.50	-13.00	-59.21
324.88	S	-73.68	-75.49	3.69	-1.88	-13.00	-60.68
433.52	S	-73.27	-74.68	3.43	-2.02	-13.00	-60.27
648.86	S	-71.36	-72.34	3.63	-2.66	-13.00	-58.36
949.56	S	-66.51	-66.54	3.23	-3.20	-13.00	-53.51
1427.00	Н	-60.58	-59.55	2.93	-3.97	-13.00	-47.58

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Radiated Spurious Emission Measurement Result: 10MHz BW LTE-Band 25 (The Worst Case)

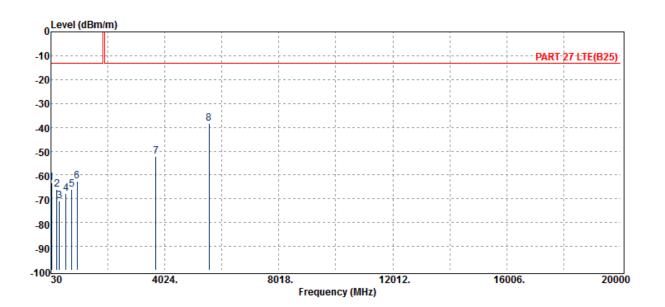
:CH 26090 16QAM BW Test Date **ARFCN** :2015-04-18 10 RB1 0

Operation Band :LTE B25 Temp./Humi. :22 deg C / 51 RH

Fundamental Frequency :1855.0 MHz Engineer :Curry

Operation Mode :TX LOW

EUT Pol. :H Plane :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
51.34	S	-63.16	-53.35	-8.90	-0.92	-13.00	-50.16
235.64	S	-66.22	-70.07	5.45	-1.59	-13.00	-53.22
323.91	S	-71.06	-75.02	5.84	-1.88	-13.00	-58.06
554.77	S	-67.98	-71.11	5.72	-2.60	-13.00	-54.98
754.59	S	-66.03	-68.77	5.45	-2.71	-13.00	-53.03
947.62	S	-62.48	-64.67	5.39	-3.20	-13.00	-49.48
3710.00	Н	-52.25	-53.78	8.43	-6.90	-13.00	-39.25
5565.00	Н	-38.26	-39.84	10.11	-8.53	-13.00	-25.26

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:CH 26065 16QAM BW 5 Test Date **ARFCN**

RB10

Operation Band

:LTE B25 :1852.5 MHz

:TX LOW

Fundamental Frequency

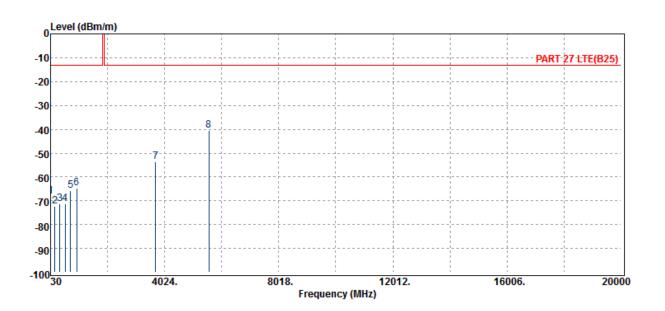
Operation Mode

EUT Pol. :H Plane :2015-03-27

Temp./Humi. :22 deg C / 51 RH

Engineer :Curry

Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
30.97	S	-68.22	-55.01	-12.47	-0.74	-13.00	-55.22
180.35	S	-72.34	-74.04	3.20	-1.50	-13.00	-59.34
360.77	S	-71.37	-75.29	5.88	-1.96	-13.00	-58.37
547.98	S	-71.44	-74.62	5.74	-2.56	-13.00	-58.44
733.25	S	-65.82	-68.62	5.46	-2.66	-13.00	-52.82
953.44	S	-64.68	-66.63	5.15	-3.21	-13.00	-51.68
3710.00	Н	-53.55	-55.09	8.43	-6.90	-13.00	-40.55
5565.00	Н	-40.38	-41.96	10.11	-8.53	-13.00	-27.38

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Operation Band

FCC ID: CPOD7E1-LTE

Report No.: ER/2015/40020 Issue Date: Jun. 04, 2015

:22 deg C / 51 RH

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:CH 26365 16QAM BW Test Date **ARFCN**

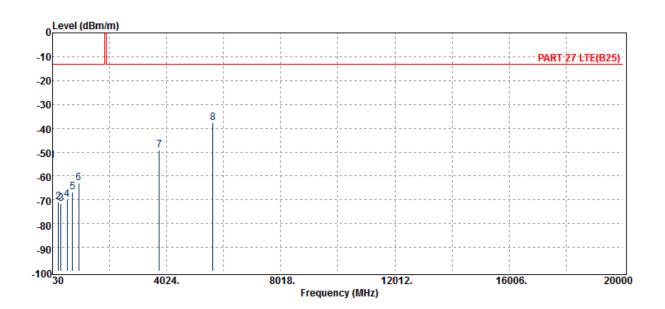
:LTE B25

:2015-04-18 10 RB1 0 Temp./Humi.

Fundamental Frequency :1882.5 MHz Engineer :Curry

Operation Mode :TX MID

EUT Pol. :H Plane :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
32.91	S	-53.68	-40.94	-11.98	-0.76	-13.00	-40.68
241.46	S	-70.80	-74.65	5.46	-1.61	-13.00	-57.80
323.91	S	-71.77	-75.73	5.84	-1.88	-13.00	-58.77
539.25	S	-69.99	-73.25	5.77	-2.52	-13.00	-56.99
726.46	S	-66.93	-69.76	5.48	-2.64	-13.00	-53.93
941.80	S	-62.83	-65.03	5.39	-3.19	-13.00	-49.83
3765.00	Н	-49.26	-50.69	8.46	-7.03	-13.00	-36.26
5647.50	Н	-37.62	-39.14	10.11	-8.59	-13.00	-24.62

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:2015-04-18

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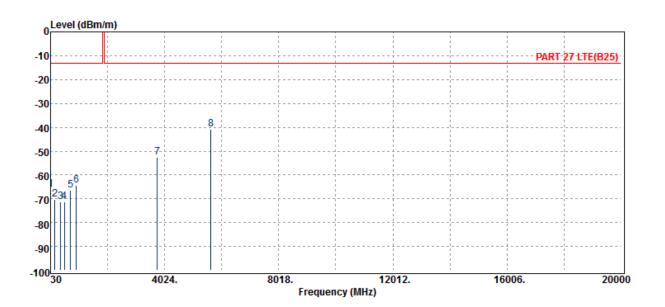
:CH 26365 16QAM BW Test Date **ARFCN**

10 RB1 0

:LTE B25 Temp./Humi. :22 deg C / 51 RH **Operation Band**

Fundamental Frequency :1882.5 MHz Engineer :Curry Operation Mode :TX MID

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



Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
30.97	S	-66.06	-52.84	-12.47	-0.74	-13.00	-53.06
180.35	S	-70.12	-71.82	3.20	-1.50	-13.00	-57.12
378.23	S	-71.35	-75.23	5.83	-1.95	-13.00	-58.35
509.18	S	-71.21	-74.73	5.88	-2.35	-13.00	-58.21
737.13	S	-66.47	-69.26	5.46	-2.67	-13.00	-53.47
927.25	S	-64.32	-66.54	5.40	-3.17	-13.00	-51.32
3765.00	Н	-52.53	-53.96	8.46	-7.03	-13.00	-39.53
5647.50	Н	-40.91	-42.43	10.11	-8.59	-13.00	-27.91

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:2015-04-18

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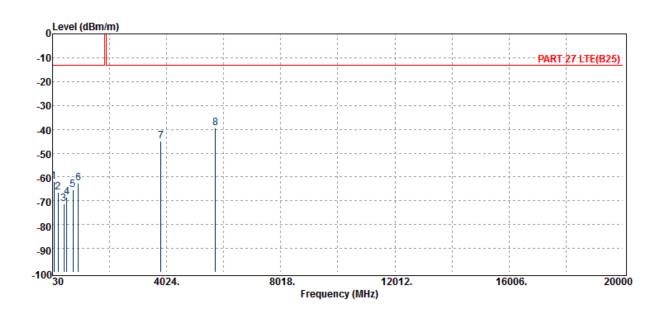
:CH 26640 16QAM BW Test Date **ARFCN**

10 RB1 0

:LTE B25 Temp./Humi. :22 deg C / 51 RH **Operation Band**

Fundamental Frequency :1910.0 MHz Engineer :Curry Operation Mode :TX HIGH

EUT Pol. :H Plane :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
81.41	S	-61.80	-60.48	-0.26	-1.06	-13.00	-48.80
231.76	S	-66.29	-70.17	5.46	-1.58	-13.00	-53.29
426.73	S	-71.14	-74.76	5.62	-1.99	-13.00	-58.14
527.61	S	-68.35	-71.71	5.81	-2.46	-13.00	-55.35
751.68	S	-65.46	-68.20	5.44	-2.70	-13.00	-52.46
936.95	S	-62.61	-64.81	5.39	-3.18	-13.00	-49.61
3820.00	Н	-45.00	-46.45	8.50	-7.05	-13.00	-32.00
5730.00	Н	-39.35	-40.83	10.12	-8.64	-13.00	-26.35

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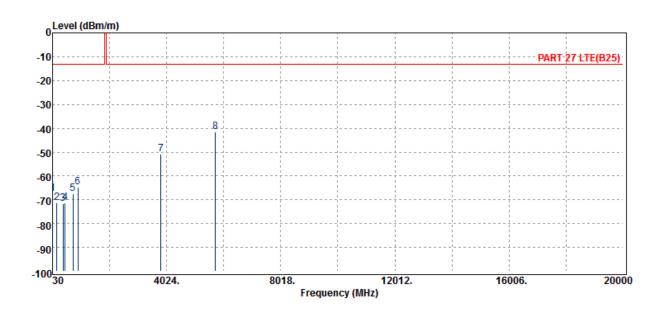
:CH 26640 16QAM BW Test Date **ARFCN** :2015-04-18 10 RB1 0

:LTE B25 Temp./Humi. :22 deg C / 51 RH **Operation Band**

Fundamental Frequency :1910.0 MHz Engineer :Curry

Operation Mode :TX HIGH

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



Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
31.94	S	-67.43	-54.45	-12.22	-0.75	-13.00	-54.43
180.35	S	-71.27	-72.96	3.20	-1.50	-13.00	-58.27
393.75	S	-71.59	-75.43	5.79	-1.95	-13.00	-58.59
476.20	S	-71.21	-74.76	5.72	-2.16	-13.00	-58.21
742.95	S	-67.42	-70.19	5.45	-2.68	-13.00	-54.42
921.43	S	-64.62	-66.86	5.40	-3.16	-13.00	-51.62
3820.00	Н	-50.82	-52.27	8.50	-7.05	-13.00	-37.82
5730.00	Н	-41.38	-42.86	10.12	-8.64	-13.00	-28.38

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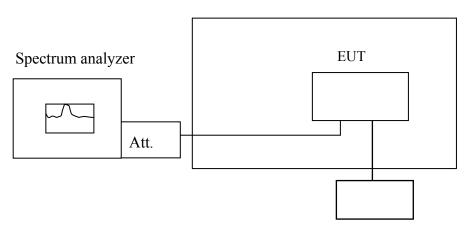
11. FREQUENCY STABILITY MEASUREMENT

11.1. Standard Applicable:

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

11.2. Test Set-up:

Temperature Chamber



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

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

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11.4. Measurement Equipment Used:

Conducted Emission (measured at antenna port) Test Site								
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.			
TYPE		NUMBER	NUMBER	CAL.				
Spectrum Analyzer	Agilent	E4440A	MY45304525	05/05/2015	05/04/2016			
Radio Communication Analyzer	R&S	CMU200	102189	02/11/2015	02/10/2016			
Radio Communication Analyzer	Anritsu	MT8820C	6200995019	10/08/2014	10/09/2015			
Temperature Chamber	TERCHY	MHG-120LF	911009	05/06/2015	05/05/2016			
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2015	01/01/2016			
Attenuator	Mini-Circuit	BW-S10W2+	002	01/02/2015	01/01/2016			
Splitter	Agilent	11636B	N/A	01/02/2015	01/01/2016			
DC Power Supply	Agilent	E3640A	MY52410006	11/10/2014	11/09/2015			

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11.5. Measurement Result:

FREQUENCY ERROR vs. VOLTAGE

REQUENCI ERROR VS. VOLTAGE						
	Reference Frequenc	y: GPRS 850 Mid (Channel 836.6 MH	Z		
	_	Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency				
Vdc	Temperature ()	(MHz)	Delta (Hz)	Limit (Hz)		
8.1	25	836599997	-1	2091		
7.4	25	836599998	0	2091		
6.9	25	836600002	4	2091		
6.0 (End point)	25	836600002	4	2091		

FREOUENCY ERROR vs. TEMPERATURE

Reference Frequency: GPRS 850 Mid Channel 836.6 MHz						
-		Limit: +/- 2.5 ppm		.2		
Power Supply	Environment	Frequency	Dolto (II-)	Limit (II-)		
Vdc	Temperature ()	(MHz)	Delta (Hz)	Limit (Hz)		
7.4	50	836599990	-8	2091		
7.4	40	836599992	-6	2091		
7.4	30	836600020	22	2091		
7.4	20	836599998	0	2091		
7.4	10	836600000	2	2091		
7.4	0	836600001	3	2091		
7.4	-10	836600006	8	2091		
7.4	-20	836600007	9	2091		
7.4	-30	836600009	11	2091		

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FREOUENCY ERROR vs. VOLTAGE

F	Reference Frequency: GPRS 1900 Mid Channel 1880 MHz						
		Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Dolto (Hz)	Limit (IIa)			
Vdc	Temperature ()	(MHz)	Delta (Hz)	Limit (Hz)			
8.1	25	1879999998	-1	4700			
7.4	25	1879999999	0	4700			
6.9	25	1880000007	8	4700			
6.0	25	100000007	0	4700			
(End point)	25	188000007	8	4700			

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency: GPRS 1900 Mid Channel 1880 MHz						
		Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Dolto (Hz)	Limit (Hz)		
Vdc	Temperature ()	(MHz)	Delta (Hz)	Limit (Hz)		
7.4	50	1879999991	-8	4700		
7.4	40	1879999995	-4	4700		
7.4	30	1879999999	0	4700		
7.4	20	1879999999	0	4700		
7.4	10	1879999997	-2	4700		
7.4	0	1880000008	9	4700		
7.4	-10	1880000011	12	4700		
7.4	-20	1880000016	17	4700		
7.4	-30	1880000019	20	4700		

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FREQUENCY ERROR vs. VOLTAGE

THE QUEITOT ET	MON VS. VOLITI	G.E.					
F	Reference Frequency: WCDMA II Mid Channel 1880 MHz						
	Limit: +/- 2.5 ppm						
Power Supply	Environment	Frequency	Dolto (Hz)	Limit (III)			
Vdc	Temperature ()	(MHz)	Delta (Hz)	Limit (Hz)			
8.1	25	1880000004	2	4700			
7.4	25	1880000002	0	4700			
6.9	25	1880000001	-1	4700			
6.0	25	100000001	1	4700			
(End point)	25	1880000001	-1	4700			

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency: WCDMA II Mid Channel 1880						
		Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)		
Vdc	Temperature ()	(MHz)	Della (HZ)	Lillit (HZ)		
7.4	50	1879999988	-14	4700		
7.4	40	1879999993	-9	4700		
7.4	30	1879999999	-3	4700		
7.4	20	1880000002	0	4700		
7.4	10	1880000008	6	4700		
7.4	0	1880000013	11	4700		
7.4	-10	1880000015	13	4700		
7.4	-20	1880000013	11	4700		
7.4	-30	1880000016	14	4700		

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FREQUENCY ERROR vs. VOLTAGE

INDQUENCT DI	REQUERCT ERROR VS. VOETROE						
Re	Reference Frequency: WCDMA IV Mid Channel 1732.6 MHz						
	Limit: +/- 2.5 ppm						
Power Supply	Environment	Frequency	Dolto (Hz)	Limit (IIIa)			
Vdc	Temperature ()	(MHz)	Delta (Hz)	Limit (Hz)			
8.1	25	173259996	-1	4331			
7.4	25	173259997	0	4331			
6.9	25	173259999	2	4331			
6.0	25	172250000	2	4221			
(End point)	25	173259999	2	4331			

FREOUENCY ERROR vs. TEMPERATURE

I REQUERTED EN	REQUESTOT ERROR 15: TEMPERATURE							
Reference Frequency: WCDMA IV Mid Channel 1732.6 MHz								
	Limit: +/- 2.5 ppm							
Power Supply	Environment	Frequency	Dolto (IIa)	Limit (Hz)				
Vdc	Temperature ()	(MHz)	Delta (Hz)	Limit (Hz)				
7.4	50	173259989	-8	4331				
7.4	40	173259991	-6	4331				
7.4	30	173259995	-2	4331				
7.4	20	173259997	0	4331				
7.4	10	173259994	-3	4331				
7.4	0	173260002	5	4331				
7.4	-10	173260003	6	4331				
7.4	-20	173260009	12	4331				
7.4	-30	173260010	13	4331				

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FREQUENCY ERROR vs. VOLTAGE

THE QUEITOT ET	REQUERCT ERROR VS. VOETROE						
R	Reference Frequency: WCDMA V Mid Channel 836.6 MHz						
	Limit: +/- 2.5 ppm						
Power Supply	Environment	Frequency	Dolto (Hz)	Limit (IIa)			
Vdc	Temperature ()	(MHz)	Delta (Hz)	Limit (Hz)			
8.1	25	836600000	-4	2091			
7.4	25	836600004	0	2091			
6.9	25	836600008	4	2091			
6.0	25	02//00007	2	2001			
(End point)	25	836600007	3	2091			

FREQUENCY ERROR vs. TEMPERATURE

REQUERCT ERROR VS. TEVITERATURE					
Reference Frequency: WCDMA V Mid Channel 836.6 MHz					
		Limit: +/- 2.5 ppm			
Power Supply	Environment	Frequency	D 14 (III.)	Limit (Hz)	
Vdc	Temperature ()	(MHz)	Delta (Hz)		
7.4	50	836599990	-14	2091	
7.4	40	836599993	-11	2091	
7.4	30	836599998	-6	2091	
7.4	20	836600004	0	2091	
7.4	10	836599994	-10	2091	
7.4	0	836600011	7	2091	
7.4	-10	836600015	11	2091	
7.4	-20	836600016	12	2091	
7.4	-30	836600018	14	2091	

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FREOUENCY ERROR vs. VOLTAGE

THE QUELTUT ELLIUM TO ELLIUSE				
Reference Frequency: CDMA BC0 Mid Channel 836.6 MHz				
		Limit: +/- 2.5 ppm		
Power Supply	Environment	Frequency	D-14- (II-)	Limit (IIa)
Vdc	Temperature ()	(MHz)	Delta (Hz)	Limit (Hz)
8.10	25.00	836.520000	-53.00	2091.00
7.40	25.00	836.519947	0.00	2091.00
6.90	25.00	836.519966	-19.00	2091.00
6.0	25.00	026 510014	22.00	2001.00
(End point)	25.00	836.519914	33.00	2091.00

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency: CDMA BC0 Mid Channel 836.6 MHz						
	Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	D 14 (II)	Limit (Hz)		
Vdc	Temperature ()	(MHz)	Delta (Hz)			
7.4	-30	836.519985	-44.00	2091		
7.4	-20	836.519978	-37.00	2091		
7.4	-10	836.519965	-24.00	2091		
7.4	0	836.519953	-12.00	2091		
7.4	10	836.519944	-3.00	2091		
7.4	20	836.519941	0.00	2091		
7.4	30	836.519922	19.00	2091		
7.4	40	836.519915	26.00	2091		
7.4	50	836.519986	-45.00	2091		

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FREOUENCY ERROR vs. VOLTAGE

THE QUELTUT ELITION TO THISE				
Reference Frequency: CDMA BC1 Mid Channel 1880 MHz				
		Limit: +/- 2.5 ppm		
Power Supply	Environment	Frequency	Dolto (IIa)	Limit (IIa)
Vdc	Temperature ()	(MHz)	Delta (Hz)	Limit (Hz)
8.10	25	1880.000014	8.00	4700
7.40	25	1880.000022	0.00	4700
6.90	25	1880.000054	-32.00	4700
6.0	25	1000 000047	25.00	4700
(End point)	25	1880.000047	-25.00	4700

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency: CDMA BC1 Mid Channel 1880 MHz					
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency		Limit (Hz)	
Vdc	Temperature ()	(MHz)	Delta (Hz)		
7.4	-30	1879.999925	-8.00	4700	
7.4	-20	1880.000005	-88.00	4700	
7.4	-10	1879.999925	-8.00	4700	
7.4	0	1879.999981	-64.00	4700	
7.4	10	1879.999966	-49.00	4700	
7.4	20	1879.999917	0.00	4700	
7.4	30	1879.999926	-9.00	4700	
7.4	40	1880.000041	-124.00	4700	
7.4	50	1879.999925	-8.00	4700	

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FREOUENCY ERROR vs. VOLTAGE

Reference Frequency: CDMA BC10 Mid Channel 820.5 MHz					
	Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Dolto (Uz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)	Delta (Hz)	Limit (Hz)	
8.10	25.00	820.500009	-8.00	2091.00	
7.40	25.00	820.500001	0.00	2091.00	
6.90	25.00	820.499925	76.00	2091.00	
6.0	25.00	920 400066	25.00	2001.00	
(End point)	25.00	820.499966	35.00	2091.00	

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency: CDMA BC10 Mid Channel 820.5 MHz						
	Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Dalta (II-)	Limit (Hz)		
Vdc	Temperature ()	(MHz)	Delta (Hz)			
7.4	-30	820.500014	-89.00	2091		
7.4	-20	820.499914	11.00	2091		
7.4	-10	820.499998	-73.00	2091		
7.4	0	820.499914	11.00	2091		
7.4	10	820.500021	-96.00	2091		
7.4	20	820.499925	0.00	2091		
7.4	30	820.500033	-108.00	2091		
7.4	40	820.500041	-116.00	2091		
7.4	50	820.499962	-37.00	2091		

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FREQUENCY ERROR vs. VOLTAGE

TREQUENCI ERROR VS. VOLTAGE					
Reference Frequency:		LTE B2 Mid Channel	1880.0	MHz 10M QPSK CH 18900	
Limit: +/- 2.5 ppm					
Power Sup- ply	Environment	Frequency			
Vdc	Temperature ()	(MHz)	Delta (Hz)	Limit (Hz)	
8.10	25	1879.999860	-54.00	4700	
7.4	25	1879.999914	0.00	4700	
6.90	25	1879.999789	-125.00	4700	
6.0 (End Point)	25	1879.999984	70.00	4700	

FREOUENCY ERROR vs. TEMPERATURE

Reference Frequency:		LTE B2 Mid Channel	1880.0	MHz 10M QPSK CH 18900
Power Supply	Environment	Frequency	Dolto (Un)	I imit (II-)
Vdc	Temperature ()	(MHz)	Delta (Hz)	Limit (Hz)
7.4	-30	1879.999888	-68.00	4700
7.4	-20	1879.999979	23.00	4700
7.4	-10	1879.999860	-96.00	4700
7.4	0	1879.999790	-166.00	4700
7.4	10	1880.000015	59.00	4700
7.4	20	1879.999956	0.00	4700
7.4	30	1879.999985	29.00	4700
7.4	40	1879.999780	-176.00	4700
7.4	50	1879.999914	-42.00	4700

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FREOUENCY ERROR vs. VOLTAGE

FREQUENCI ERROR VS. VOLTAGE					
Reference Frequency:		LTE B4 Mid Channel	1732.5	MHz 10M QPSK CH 20175	
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency			
Vdc	Temperature ()	(MHz)	Delta (Hz)	Limit (Hz)	
8.10	25	1732.499911	26.00	4331	
7.4	25	1732.499885	0.00	4331	
6.90	25	1732.499979	94.00	4331	
6.0 (End Point)	25	1732.499983	98.00	4331	

FREQUENCY ERROR vs. TEMPERATURE

Reference	Frequency:	LTE B4 Mid Channel	1732.5	MHz 10M QPSK CH 20175	
	Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Dolto (Uz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)	Delta (Hz)	Lillit (HZ)	
7.4	-30	1732.499850	-123.00	4331	
7.4	-20	1732.499967	-6.00	4331	
7.4	-10	1732.499982	9.00	4331	
7.4	0	1732.499979	6.00	4331	
7.4	10	1732.499775	-198.00	4331	
7.4	20	1732.499973	0.00	4331	
7.4	30	1732.500000	27.00	4331	
7.4	40	1732.499954	-19.00	4331	
7.4	50	1732.499910	-63.00	4331	

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FREQUENCY ERROR vs. VOLTAGE

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)		
8.10	25	836.499904	-75.00	2091		
7.4	25	836.499979	0.00	2091		
6.90	25	836.499911	-68.00	2091		
6.0 (End Point)	25	836.499987	8.00	2091		

FREOUENCY ERROR vs. TEMPERATURE

Reference	Frequency:	LTE B5 Mid Channel	836.5	MHz 10M QPSK CH 20525
		Limit: +/- 2	2.5 ppm	
Power Supply	Environment	Frequency	Dolto (II-)	Limit (II-)
Vdc	Temperature ()	(MHz)	Delta (Hz)	Limit (Hz)
7.4	-30	836.499979	22.00	2091
7.4	-20	836.499810	-147.00	2091
7.4	-10	836.499850	-107.00	2091
7.4	0	836.500021	64.00	2091
7.4	10	836.499967	10.00	2091
7.4	20	836.499957	0.00	2091
7.4	30	836.499935	-22.00	2091
7.4	40	836.499912	-45.00	2091
7.4	50	836.499988	31.00	2091

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FREOUENCY ERROR vs. VOLTAGE

Reference	Frequency:	LTE B13 Mid Channel	782.0	MHz 10M QPSK CH 23230		
	Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency				
Vdc	Temperature ()	(MHz)	Delta (Hz)	Limit (Hz)		
8.10	25	781.999967	24.00	1955		
7.4	25	781.999943	0.00	1955		
6.90	25	781.999959	16.00	1955		
6.0 (End Point)	25	781.999860	-83.00	1955		

FREQUENCY ERROR vs. TEMPERATURE

Reference	Frequency:	LTE B13 Mid Channel	782.0	MHz 10M QPSK CH 23230
		Limit: +/- 2	2.5 ppm	
Power Supply	Environment	Frequency	Dolto (III-)	I imit (II_)
Vdc	Temperature ()	(MHz)	Delta (Hz)	Limit (Hz)
7.4	-30	781.999799	-180.00	1955
7.4	-20	781.999924	-55.00	1955
7.4	-10	781.999955	-24.00	1955
7.4	0	781.999967	-12.00	1955
7.4	10	781.999942	-37.00	1955
7.4	20	781.999979	0.00	1955
7.4	30	781.999993	14.00	1955
7.4	40	781.999923	-56.00	1955
7.4	50	781.999966	-13.00	1955

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FREOUENCY ERROR vs. VOLTAGE

Reference 1	Frequency:	LTE B17 Mid Channel	710.0	MHz 10M QPSK CH 23790		
	Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency				
Vdc	Temperature ()	(MHz)	Delta (Hz)	Limit (Hz)		
8.10	25	709.999967	34.00	1775		
7.4	25	709.999933	0.00	1775		
6.90	25	709.999901	-32.00	1775		
6.0 (End Point)	25	709.999880	-53.00	1775		

FREQUENCY ERROR vs. TEMPERATURE

Reference 1	Frequency:	LTE B17 Mid Channel	710.0	MHz 10M QPSK CH 23790
		Limit: +/-	2.5 ppm	
Power Supply	Environment	Frequency	Dolto (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)	Delta (Hz)	Limit (Hz)
7.4	-30	709.999779	-212.00	1775
7.4	-20	709.999813	-178.00	1775
7.4	-10	709.999897	-94.00	1775
7.4	0	709.999902	-89.00	1775
7.4	10	709.999978	-13.00	1775
7.4	20	709.999991	0.00	1775
7.4	30	709.999953	-38.00	1775
7.4	40	709.999914	-77.00	1775
7.4	50	709.999923	-68.00	1775

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FREQUENCY ERROR vs. VOLTAGE

TREQUERCI ERROR VS. VOLTAGE				
Reference 1	Frequency:	LTE B25 Mid Channel	1882.5	MHz 10M QPSK CH 26365
		Limit: +/-	2.5 ppm	
Power Supply	Environment	Frequency		
Vdc	Temperature ()	(MHz)	Delta (Hz)	Limit (Hz)
8.10	25	1882.499902	-55.00	4706
7.4	25	1882.499957	0.00	4706
6.90	25	1882.499985	28.00	4706
6.0 (End Point)	25	1882.499991	34.00	4706

FREQUENCY ERROR vs. TEMPERATURE

		LTE B25 Mid Channel	1882.5	MHz 10M QPSK CH 26365		
	Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Dolto (II-)	I imit (II-)		
Vdc	Temperature ()	(MHz)	Delta (Hz)	Limit (Hz)		
7.4	-30	1882.499971	38.00	4706		
7.4	-20	1882.499932	-1.00	4706		
7.4	-10	1882.499909	-24.00	4706		
7.4	0	1882.499891	-42.00	4706		
7.4	10	1882.499830	-103.00	4706		
7.4	20	1882.499933	0.00	4706		
7.4	30	1882.499916	-17.00	4706		
7.4	40	1882.499901	-32.00	4706		
7.4	50	1882.499991	58.00	4706		

Note: The adtpter is rated 7.4V dc.

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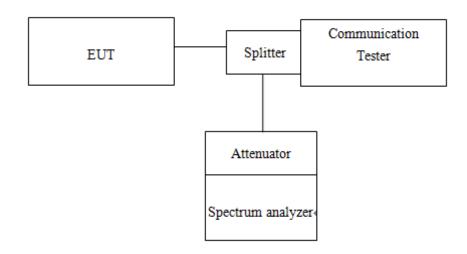
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12. PEAK TO AVERAGE RATIO

12.1. Standard Applicable

The peak-to-average ration (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.

12.4. Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site								
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.			
TYPE		NUMBER	NUMBER	CAL.				
Spectrum Analyzer	Agilent	E4446A	MY51100003	01/29/2015	01/28/2016			
Radio Communication Analyzer	R&S	CMU200	102189	02/11/2015	02/10/2016			
Radio Communication Analyzer	Anritsu	MT8820C	6200995019	10/08/2014	10/09/2015			
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2015	01/01/2016			
Attenuator	Mini-Circuit	BW-S10W2+	002	01/02/2015	01/01/2016			
Splitter	Agilent	11636B	N/A	01/02/2015	01/01/2016			
DC Power Supply	Agilent	E3640A	MY52410006	11/10/2014	11/09/2015			

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12.5. Measurement Result

Tabular Results:

Frequency	СН		erage Ratio B)	
(MHz)	CII	GPRS	EDGE	
824.20	128	11.47	11.30	
836.60	190	12.12	11.28	
848.80	251	11.71	11.04	

Frequency	СН		erage Ratio B)
(MHz)	CII	GPRS	EDGE
1850.20	512	9.57	8.22
1880.00	661	8.60	8.50
1909.80	810	7.47	8.43

Frequency	СН	Peak-to-Average Ratio (dB)				
(MHz)	CII	WCDMA II	HSDPA II	HSUPA II		
1850.20	9262	3.19	3.18	3.15		
1880.00	9400	3.15	3.18	3.17		
1909.80	9538	3.01	3.03	3.00		

Frequency	СН	Peak-to-Average Ratio (dB)			
(MHz)	CII	WCDMA IV	HSDPA IV	HSUPA IV	
1712.4	1312	3.21	3.24	3.24	
1732.6	1413	3.02	3.08	3.06	
1752.6	1513	3.22	3.20	3.22	

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Frequency	СН	Peak-to-Average Ratio (dB)				
(MHz)	CII	WCDMA V	HSDPA V	HSUPA V		
826.40	4132	3.20	3.21	3.24		
836.60	4183	3.29	3.24	3.22		
846.60	4233	3.07	3.09	3.08		

Frequency	CII		verage Ratio
(MHz)	СН	CDMA BC0	EVDO BC0
1850.20	9262	3.92	3.94
1880.00	9400	3.95	3.92
1909.80	9538	3.30	3.35

Frequency (MHz)	СН		verage Ratio
	CH	CDMA BC1	EVDO BC1
826.40	4132	3.61	3.64
836.60	4183	3.68	3.68
846.60	4233	3.23	3.20

Frequency (MHz)	CH		verage Ratio
	СН	CDMA BC10	EVDO BC10
817.9	476	3.79	3.84
820.5	580	3.86	3.85
823.1	684	3.95	3.97

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LTE BAND 2								
Channel bandwidth: 1.4MHz			Ch	annel ban	dwidth: 3M	Hz		
Frequency		Peak-to-Average Ratio (dB)		Frequency	CII	Peak-to-Ave	_	
(MHz)	СН	16QAM	LIMIT	(MHz)	СН	16QAM	LIMIT	
1850.7	18607	5.95	13	1851.5	18615	5.86	13	
1880.0	18900	6.34	13	1880.0	18900	6.14	13	
1909.3	19193	5.28	13	1908.5	19185	5.47	13	

LTE BAND 2								
Channel bandwidth: 5MHz				Cha	nnel ban	dwidth: 10M	Hz	
Frequency	CII	Peak-to-Average Ratio (dB) Frequency		Frequency	CII	Peak-to-Ave	_	
(MHz)	СН	16QAM	LIMIT	(MHz)	СН	16QAM	LIMIT	
1852.5	18625	6.17	13	1855.0	18650	6.25	13	
1880.0	18900	6.39	13	1880.0	18900	6.42	13	
1907.5	19175	5.95	13	1905.0	19150	6.24	13	

LTE BAND 2								
Channel bandwidth: 15MHz				Cha	nnel ban	dwidth: 20M	Hz	
Frequency	CII	Peak-to-Average Ratio (dB)		(dB) Frequency	CII	Peak-to-Average Ratio (dB)		
(MHz)	СН	16QAM	LIMIT	(MHz)	СН	16QAM	LIMIT	
1857.5	18675	6.70	13	1860.0	18700	7.08	13	
1880.0	18900	6.76	13	1880.0	18900	7.11	13	
1902.5	19125	6.76	13	1900.0	19100	7.16	13	

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	LTE BAND 4										
Channel bandwidth: 1.4MHz				Cha	annel bar	ndwidth: 3M	Hz				
Frequency	СН	Peak-to-Av	erage Ratio B)	Frequency	CII	Peak-to-Ave	B)				
(MHz)		16QAM	LIMIT	(MHz)	СН	(dB) 16QAM LIMIT					
1710.7	19957	6.11	13	1711.5	19965	5.97	13				
1732.5	20175	5.37	13	1732.5	20175	5.31	13				
1754.3	20393	5.84	13	1753.5	20385	5.94	13				

LTE BAND 4										
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz						
Frequency	СН	Peak-to-Av	erage Ratio B)	Frequency	CII	Peak-to-Average Rati (dB)				
(MHz)		16QAM	LIMIT	(MHz)	СН	16QAM	LIMIT			
1712.5	19957	6.09	13	1715.0	20000	6.22	13			
1732.5	20175	5.72	13	1732.5	20175	6.09	13			
1752.5	20375	6.21	13	1750.0	20350	6.37	13			

	LTE BAND 4										
Channel bandwidth: 15MHz				Cha	nnel ban	dwidth: 20M	Hz				
Frequency	СН		erage Ratio B)	Frequency (MHz)	СН		verage Ratio				
(MHz)		16QAM	LIMIT		Сп	(dB) 16QAM LIMIT					
1717.5	20025	6.71	13	1720.0	20050	7.06	13				
1732.5	20175	6.69	13	1732.5	20175	7.13	13				
1747.5	20325	6.89	13	1745.0	20300	7.39	13				

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			LTE B	SAND 5				
Cha	nnel bar	ndwidth: 1.4N	MHz	Ch	annel bar	ndwidth: 3Ml	Hz	
Frequency	СН	Peak-to-Av	erage Ratio B)	Frequency	CII		co-Average Ratio (dB)	
(MHz)		16QAM	LIMIT	(MHz)	СН	16QAM	LIMIT	
824.7	20407	6.16	13	825.5	20415	6.22	13	
836.5	20525	6.25	13	836.5	20525	6.14	13	
848.3	20643	5.58	13	847.5	20635	5.66	13	

LTE BAND 5										
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz						
Frequency	СН		erage Ratio B)	Frequency	СН	Peak-to-Average Ratio (dB)				
(MHz)		16QAM	LIMIT	(MHz)	Сн	16QAM	LIMIT			
826.5	20425	6.32	13	2505.0	20800	6.41	13			
836.5	20525	6.35	13	2535.0	21100	6.30	13			
846.5	20625	5.97	13	2565.0	21400	6.20	13			

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	LTE BAND 13									
Channel bandwidth: 5MHz				Cha	nnel ban	dwidth: 10M	Hz			
Frequency	CII		erage Ratio B)	Frequency (MHz)	CII	Peak-to-Average Ratio (dB) 16QAM LIMIT				
(MHz)	СН	16QAM	LIMIT		СН					
779.5	23205	6.23	13							
782.0	23230	6.12	13	23230	782	6.07	13			
782.0	23255	5.93	13							

	LTE BAND 17										
Channel bandwidth: 5MHz				Cha	nnel ban	dwidth: 10M	Hz				
Frequency	СН		erage Ratio B)	Frequency	СН	Peak-to-Average Ratio (dB)					
(MHz)		16QAM	LIMIT	(MHz)		16QAM	LIMIT				
706.5	23755	5.75	13	709	23780	6.09	13				
710.0	23790	6.27	13	710	23790	6.24	13				
713.5	23825	6.19	13	711	23800	6.32	13				

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	LTE BAND 25									
Channel bandwidth: 1.4MHz				Ch	annel bar	dwidth: 3M	Hz			
Frequency	СН		erage Ratio B)	Frequency	СН		verage Ratio (dB)			
(MHz)		16QAM	LIMIT	(MHz)	СН	16QAM	(dB) 16QAM LIMIT			
1850.7	26047	6.14	13	1851.5	26055	6.00	13			
1882.5	26365	6.37	13	1882.5	26365	6.19	13			
1914.3	26683	4.97	13	1913.5	26675	5.19	13			

			LTE B	AND 25			
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency	СН		erage Ratio B)	Frequency (MHz)	CII	Peak-to-Ave	0
(MHz)		16QAM	LIMIT		СН	16QAM	LIMIT
1852.5	26065	6.33	13	1855.0	26090	6.31	13
1882.5	26365	6.37	13	1882.5	26365	6.42	13
1912.5	26665	5.43	13	1910.0	26640	6.01	13

	LTE BAND 25									
Cha	nnel baı	ndwidth: 15N	ИHz	Cha	nnel ban	dwidth: 20M	Hz			
Frequency	СН	Peak-to-Av	erage Ratio B)	Frequency	СН	Peak-to-Average Ratio (dB)				
(MHz)		16QAM	LIMIT	(MHz)	Сн	16QAM	LIMIT			
1857.5	26115	6.78	13	1860.0	26140	7.10	13			
1882.5	26365	6.78	13	1882.5	26365	7.15	13			
1907.5	26615	6.76	13	1905.0	26590	7.16	13			

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Measurement Results:

GPRS 850 Channel Low



GPRS 850 Channel Mid



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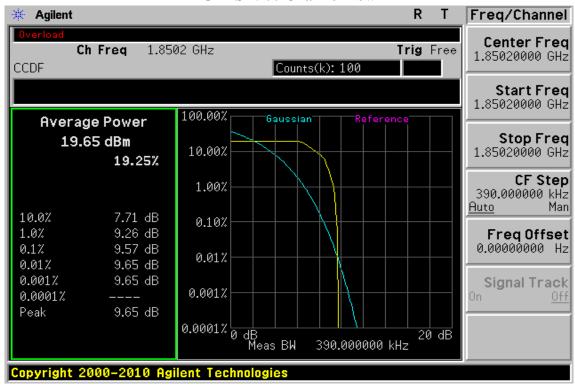
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GPRS 850 Channel High



GPRS 1900 Channel Low



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GPRS 1900 Channel Mid



GPRS 1900 Channel High



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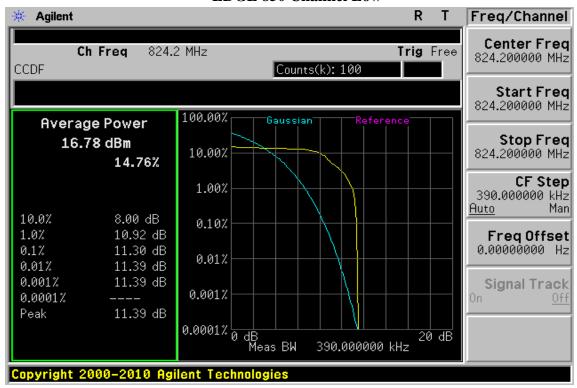
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EDGE 850 Channel Low



EDGE 850 Channel Mid



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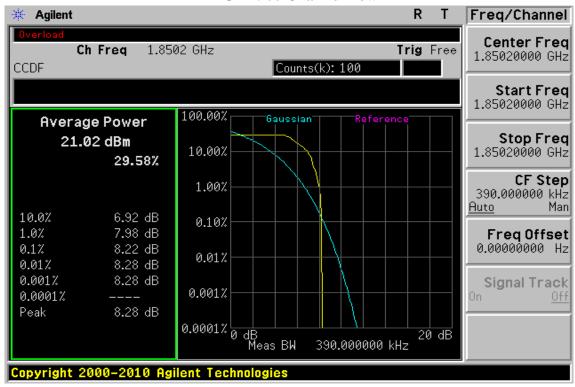
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EDGE 850 Channel High



EDGE 1900 Channel Low



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EDGE 1900 Channel Mid



EDGE 1900 Channel High



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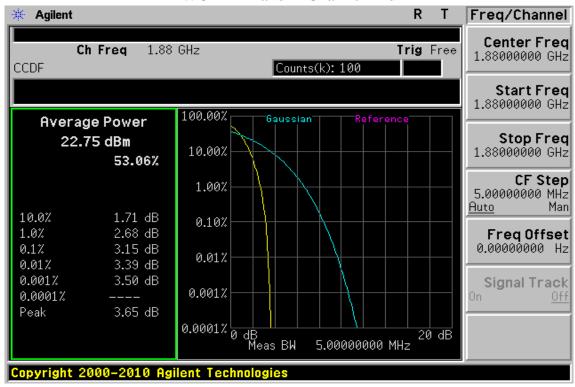
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WCDMA Band II Channel Low



WCDMA Band II Channel Mid



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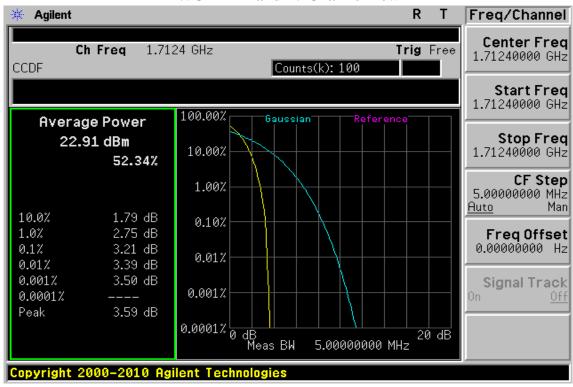
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WCDMA Band II Channel High



WCDMA Band IV Channel Low



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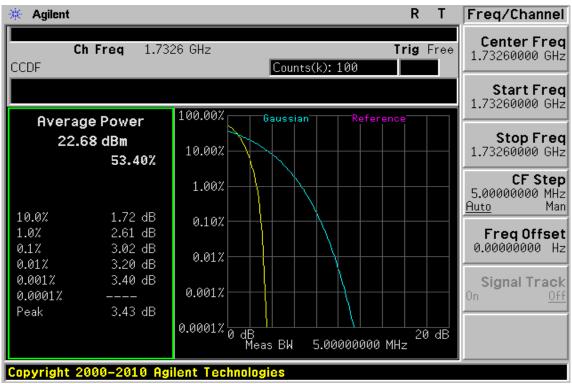
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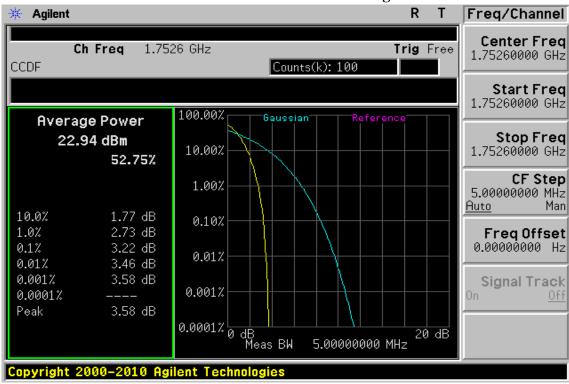
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WCDMA Band IV Channel Mid



WCDMA Band IV Channel High



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WCDMA Band V Channel Low



WCDMA Band V Channel Mid



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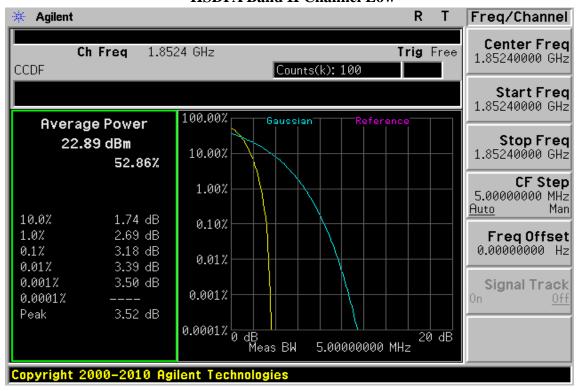
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WCDMA Band V Channel High



HSDPA Band II Channel Low



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HSDPA Band II Channel Mid



HSDPA Band II Channel High



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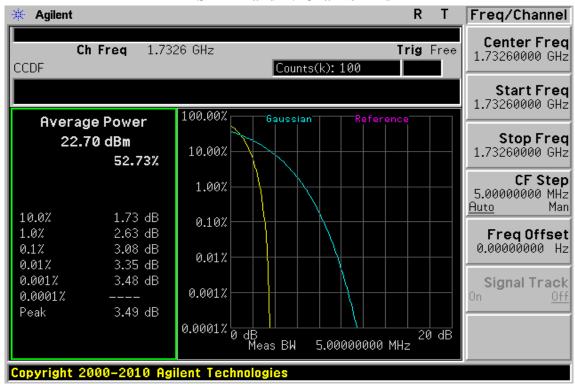
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HSDPA Band IV Channel Low



HSDPA Band IV Channel Mid



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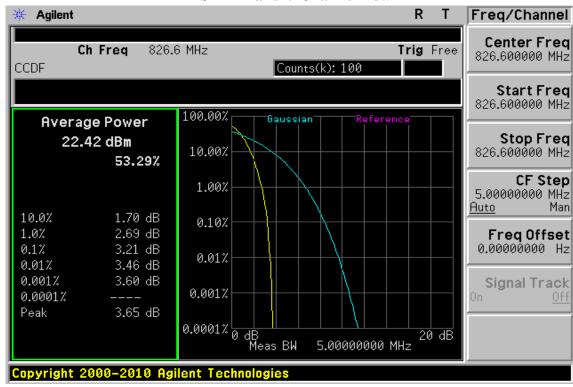
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HSDPA Band IV Channel High



HSDPA Band V Channel Low



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HSDPA Band V Channel Mid



HSDPA Band V Channel High



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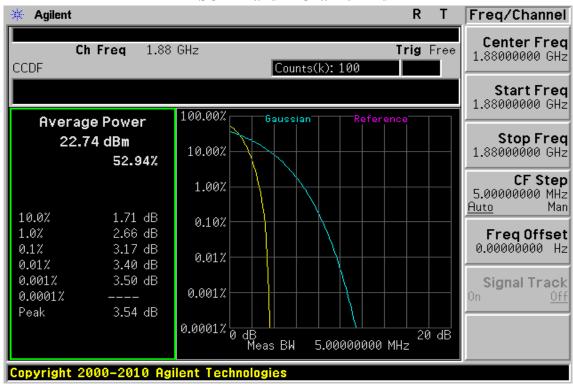
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HSUPA Band II Channel Low



HSUPA Band II Channel Mid



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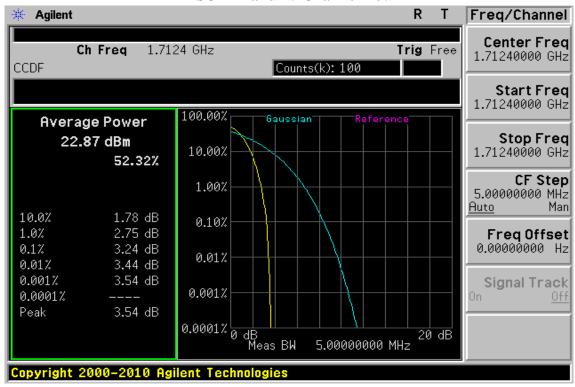
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HSUPA Band II Channel High



HSUPA Band IV Channel Low



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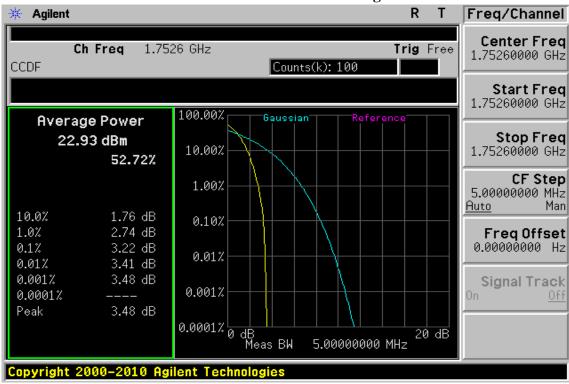
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HSUPA Band IV Channel Mid



HSUPA Band V Channel High



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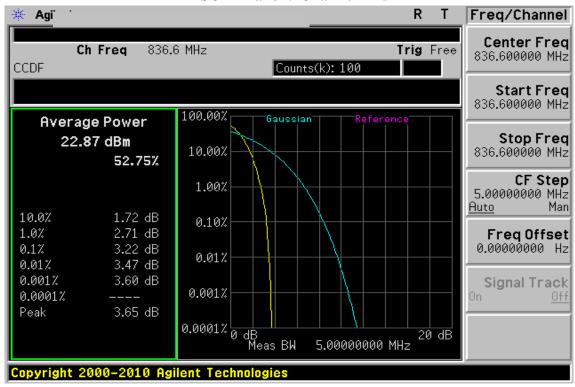
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HSUPA Band V Channel Low



HSUPA Band V Channel Mid



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HSUPA Band V Channel High



CDMA BC0 Channel Low



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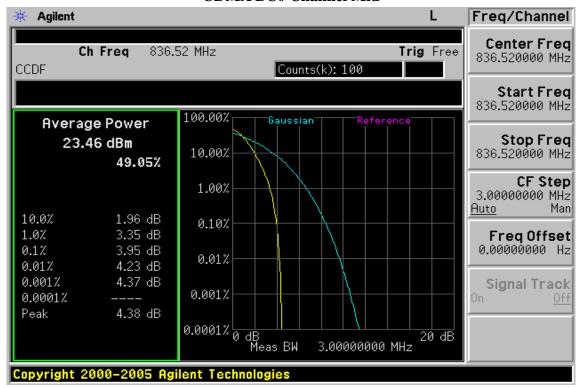
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CDMA BC0 Channel Mid



CDMA BC0 Channel High



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CDMA BC1 Channel Low



CDMA BC1 Channel Mid



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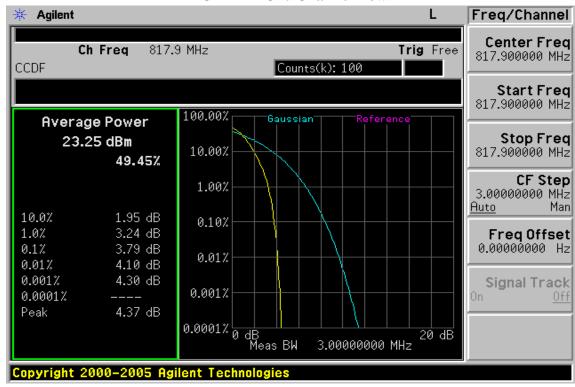
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CDMA BC1 Channel High



CDMA BC10 Channel Low



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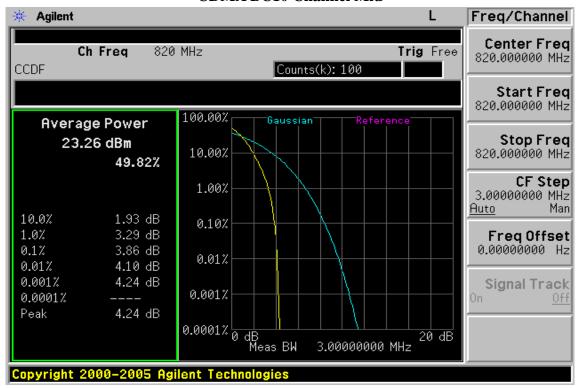
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CDMA BC10 Channel Mid



CDMA BC10 Channel High



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EVDO BC0 Channel Low



EVDO BC0 Channel Mid



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EVDO BC0 Channel High



EVDO PCS BC1 Channel Low



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EVDO BC1 Channel Mid



EVDO BC1 Channel High



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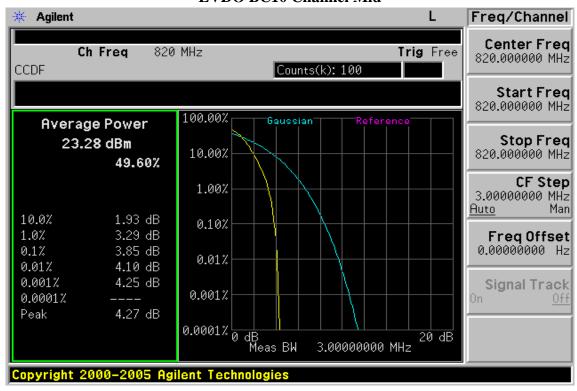
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EVDO BC10 Channel Low



EVDO BC10 Channel Mid



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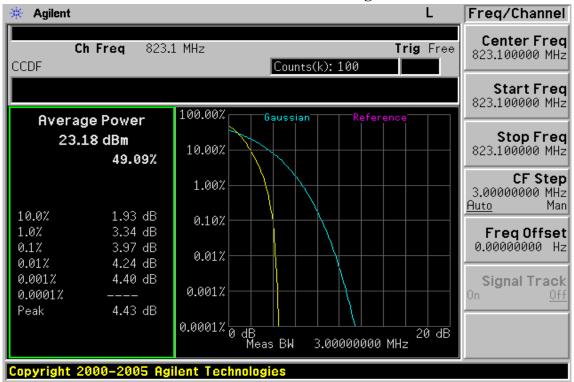
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EVDO BC10 Channel High



1.4MHz BW LTE-Band 2 16QAM Channel Low



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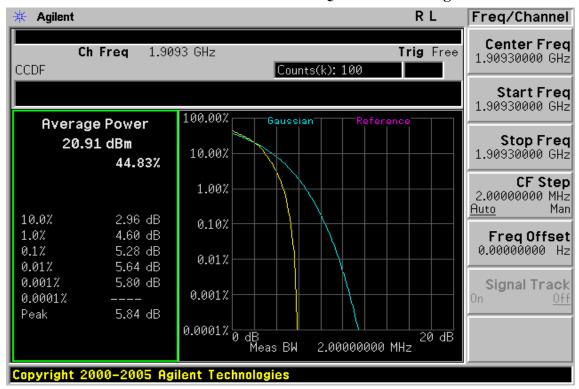
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1.4MHz BW LTE-Band 2 16OAM Channel Mid



1.4MHz BW LTE-Band 2 16QAM Channel High



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3MHz BW LTE-Band 2 16QAM Channel Low



3MHz BW LTE-Band 2 16OAM Channel Mid



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3MHz BW LTE-Band 2 16QAM Channel High



5MHz BW LTE-Band 2 16OAM Channel Low



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5MHz BW LTE-Band 2 16QAM Channel Mid



5MHz BW LTE-Band 2 16QAM Channel High



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10MHz BW LTE-Band 2 16OAM Channel Low



10MHz BW LTE-Band 2 16QAM Channel Mid



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10MHz BW LTE-Band 2 16QAM Channel High



15MHz BW LTE-Band 2 16QAM Channel Low



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15MHz BW LTE-Band 2 16OAM Channel Mid



15MHz BW LTE-Band 2 16QAM Channel High



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20MHz BW LTE-Band 2 16OAM Channel Low



20MHz BW LTE-Band 2 16QAM Channel Mid



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20MHz BW LTE-Band 2 16QAM Channel High



1.4MHz BW LTE-Band 4 16QAM Channel Low



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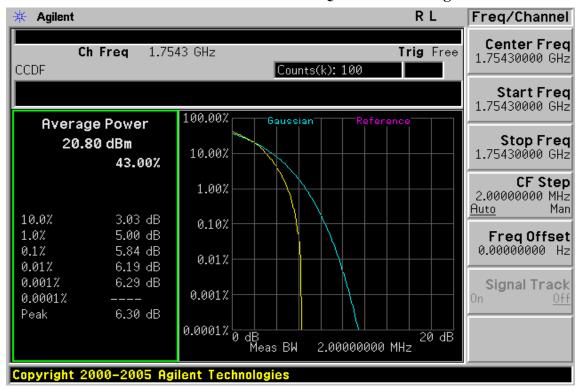
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1.4MHz BW LTE-Band 4 16OAM Channel Mid



1.4MHz BW LTE-Band 4 16QAM Channel High



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3MHz BW LTE-Band 4 16QAM Channel Low



3MHz BW LTE-Band 4 16OAM Channel Mid



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3MHz BW LTE-Band 4 16QAM Channel High



5MHz BW LTE-Band 4 16OAM Channel Low



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5MHz BW LTE-Band 4 16QAM Channel Mid



5MHz BW LTE-Band 4 16QAM Channel High



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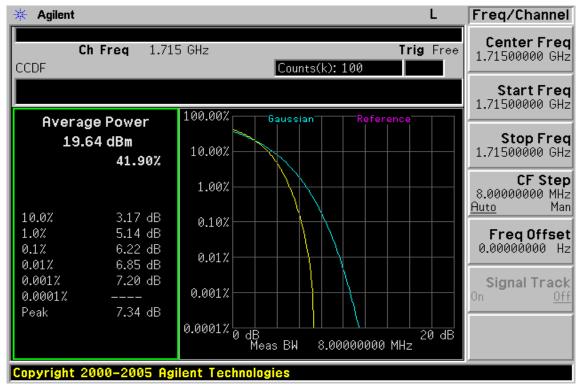
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10MHz BW LTE-Band 4 16OAM Channel Low



10MHz BW LTE-Band 4 16QAM Channel Mid



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10MHz BW LTE-Band 4 16QAM Channel High



15MHz BW LTE-Band 4 16QAM Channel Low



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15MHz BW LTE-Band 4 16QAM Channel Mid



15MHz BW LTE-Band 4 16QAM Channel High



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20MHz BW LTE-Band 4 16OAM Channel Low



20MHz BW LTE-Band 4 16QAM Channel Mid



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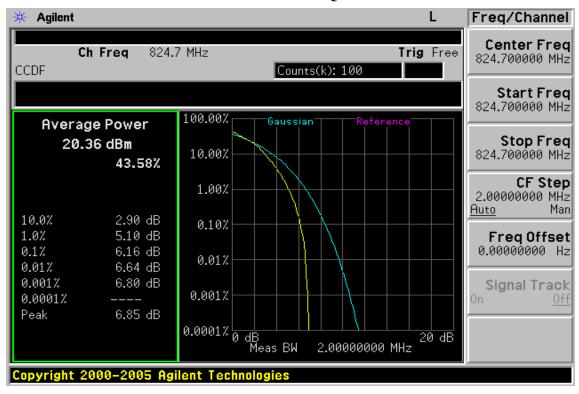
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20MHz BW LTE-Band 4 16QAM Channel High



1.4MHz BW LTE-Band 5 16QAMChannel Low



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1.4MHz BW LTE-Band 5 16OAM Channel Mid



1.4MHz BW LTE-Band 5 16QAM Channel High



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3MHz BW LTE-Band 5 16QAM Channel Low



3MHz BW LTE-Band 5 16OAM Channel Mid



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3MHz BW LTE-Band 5 16QAM Channel High



5MHz BW LTE-Band 5 16OAM Channel Low



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5MHz BW LTE-Band 5 16QAM Channel Mid



5MHz BW LTE-Band 5 16QAM Channel High



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10MHz BW LTE-Band 5 16OAM Channel Low



10MHz BW LTE-Band 5 16QAM Channel Mid



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10MHz BW LTE-Band 5 16QAM Channel High



5MHz BW LTE-Band 13 16QAM Channel Low



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5MHz BW LTE-Band 13 16QAM Channel Mid



5MHz BW LTE-Band 13 16QAM Channel High



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10MHz BW LTE-Band 13 16QAM Channel Mid



5MHz BW LTE-Band 17 16QAM Channel Low



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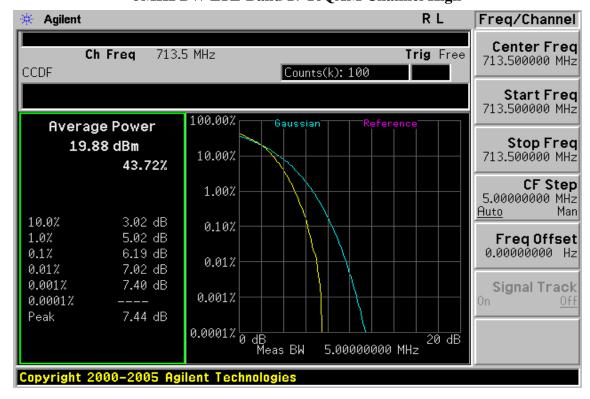
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5MHz BW LTE-Band 17 16OAM Channel Mid



5MHz BW LTE-Band 17 16QAM Channel High



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10MHz BW LTE-Band 17 16QAM Channel Low



10MHz BW LTE-Band 17 16QAM Channel Mid



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10MHz BW LTE-Band 17 16QAM Channel High



1.4MHz BW LTE-Band 25 16QAM Channel Low



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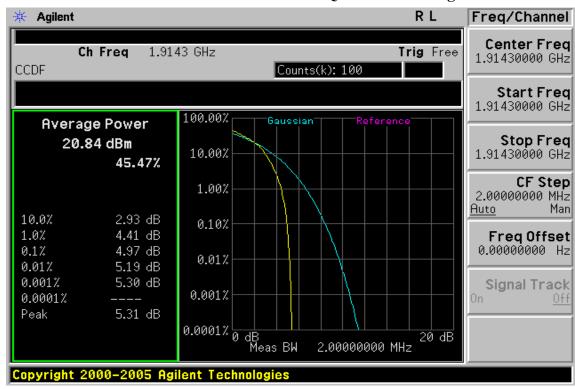
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1.4MHz BW LTE-Band 25 16QAM Channel Mid



1.4MHz BW LTE-Band 25 16QAM Channel High



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3MHz BW LTE-Band 25 16OAM Channel Low



3MHz BW LTE-Band 25 16QAM Channel Mid



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3MHz BW LTE-Band 25 16QAM Channel High



5MHz BW LTE-Band 25 16QAM Channel Low



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5MHz BW LTE-Band 25 16QAM Channel Mid



5MHz BW LTE-Band 25 16QAM Channel High



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10MHz BW LTE-Band 25 16OAM Channel Low



10MHz BW LTE-Band 25 16QAM Channel Mid



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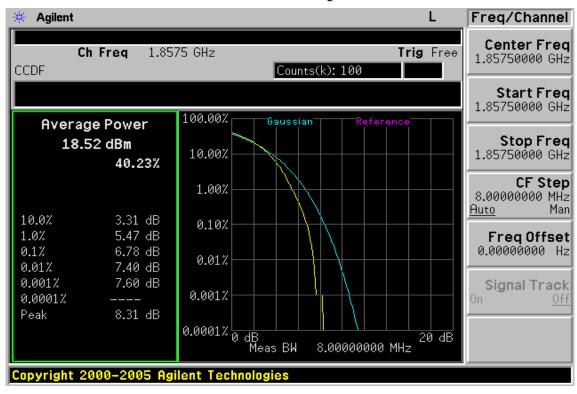
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10MHz BW LTE-Band 25 16QAM Channel High



15MHz BW LTE-Band 25 16QAM Channel Low



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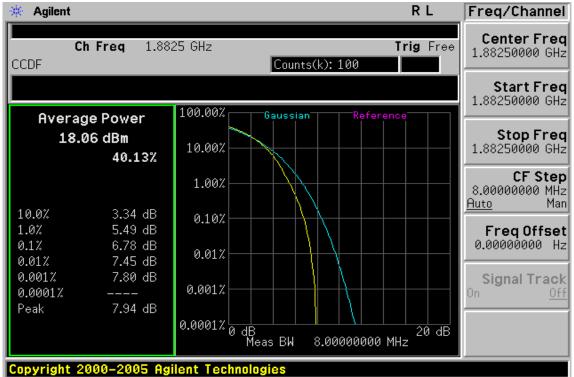
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15MHz BW LTE-Band 25 16OAM Channel Mid



15MHz BW LTE-Band 25 16QAM Channel High



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20MHz BW LTE-Band 25 16OAM Channel Low



20MHz BW LTE-Band 25 16QAM Channel Mid



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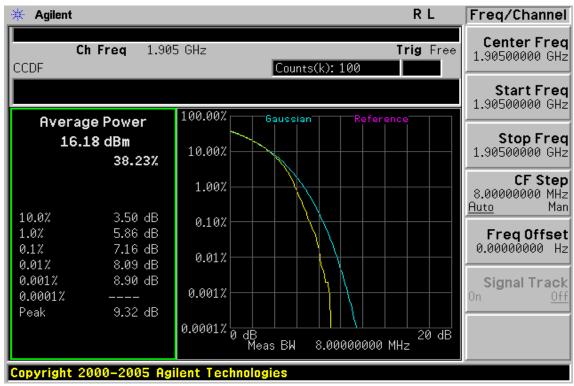
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20MHz BW LTE-Band 25 16QAM Channel High



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