

## 9. OUT OF BAND EMISSION AT ANTENNA TERMINALS

### 9.1. Standard Applicable

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

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

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;

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 than  $43 + 10 \log (P)$  dB on all frequencies between 2490.5 MHz and 2496 MHz and  $55 + 10 \log (P)$  dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

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

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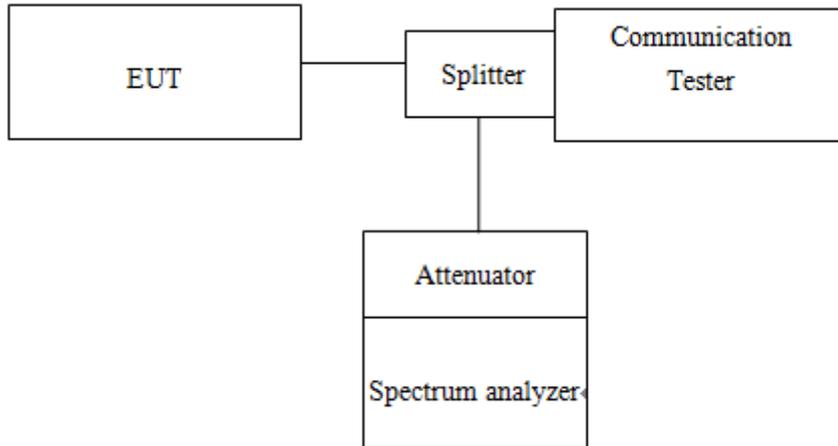
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## 9.2. Test SET-UP



## 9.3. Measurement Procedure

### Conducted Emission

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

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

### Band Edge

1. To connect Antenna Port of EUT to Spectrum.
2. The band edge of low and high channels for the highest RF powers was measured. Setting RBW  $\geq$  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 TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
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
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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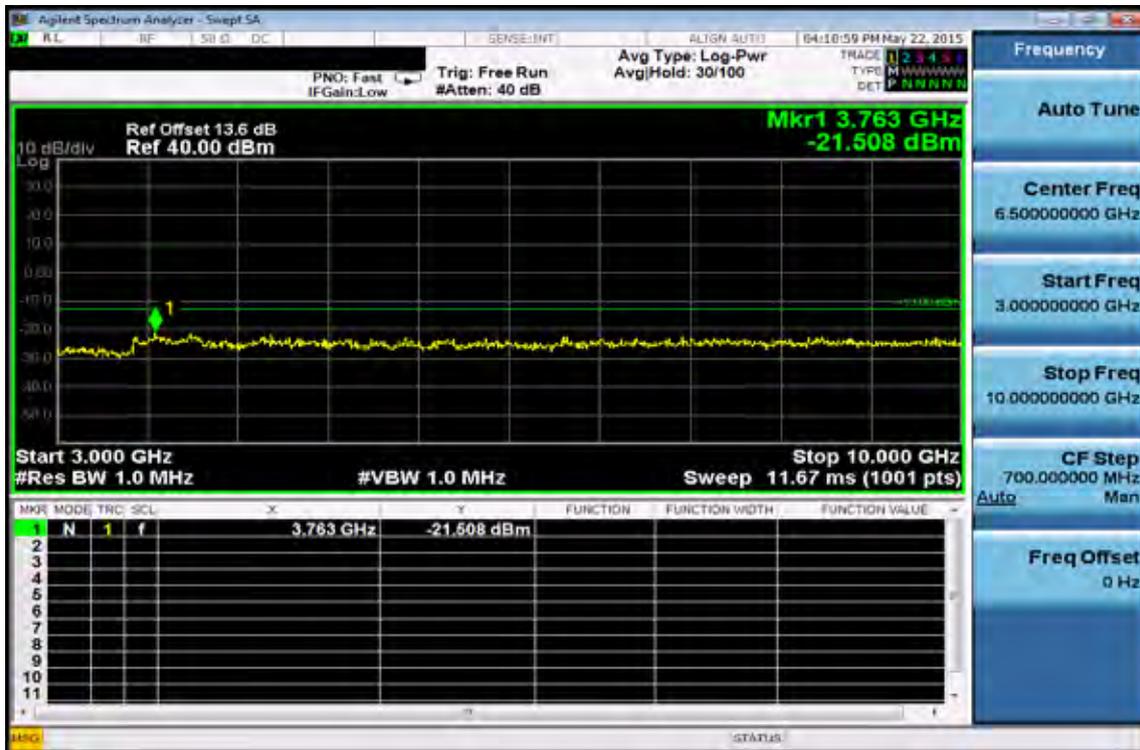
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Out of Band emission at antenna terminals – GSM 850 Channel Lowest



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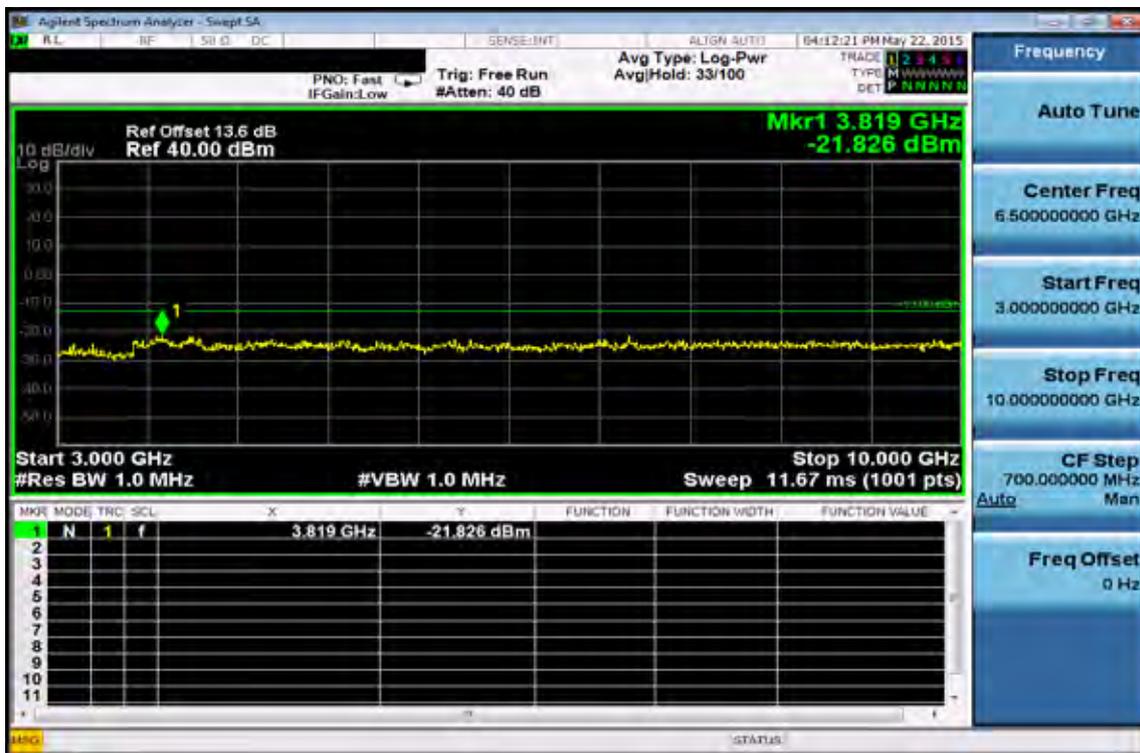
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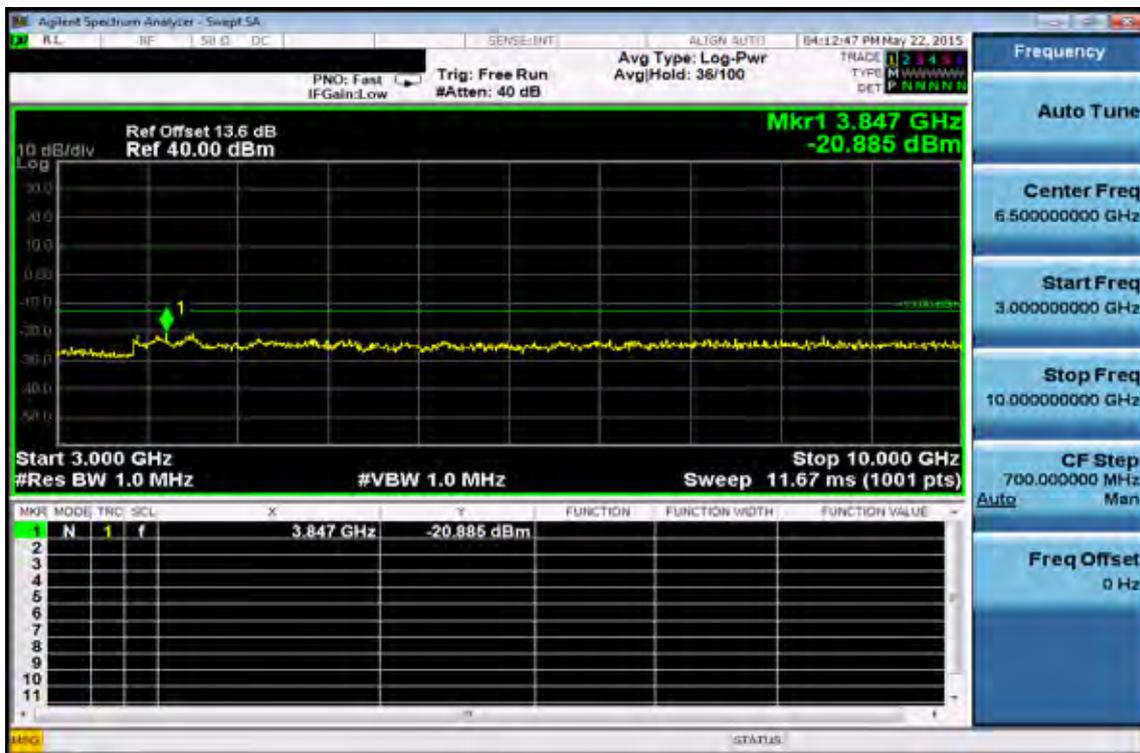
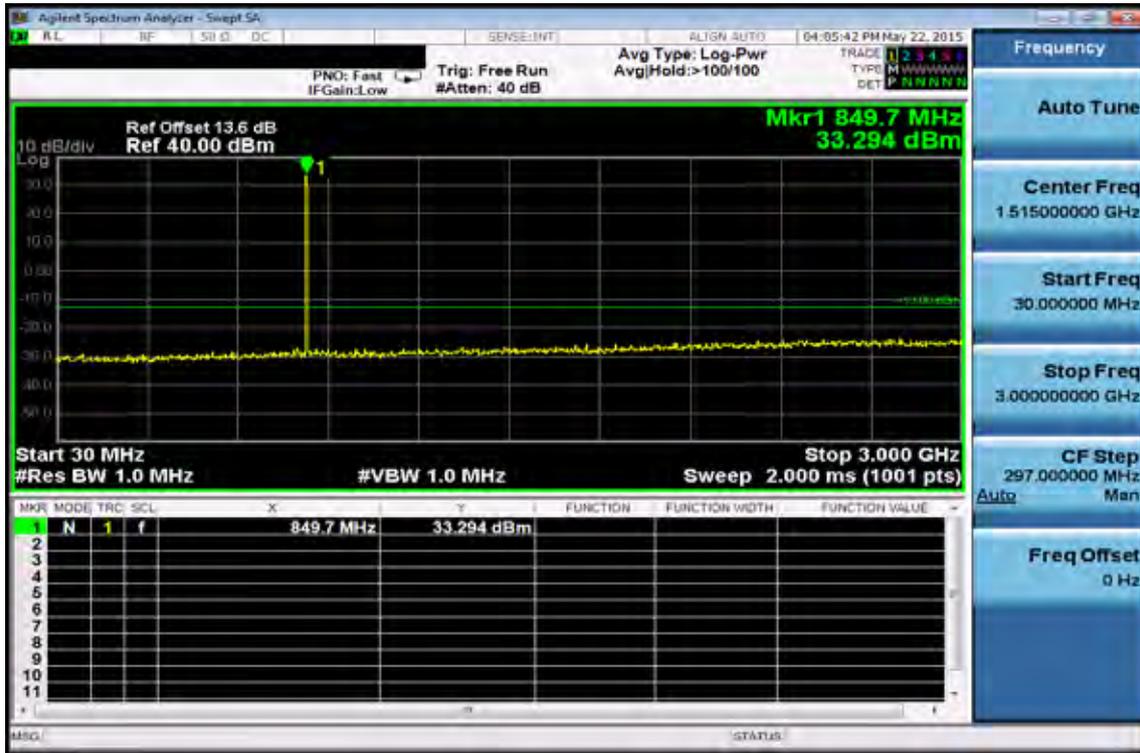
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Out of Band emission at antenna terminals – GSM 850 Channel Highest



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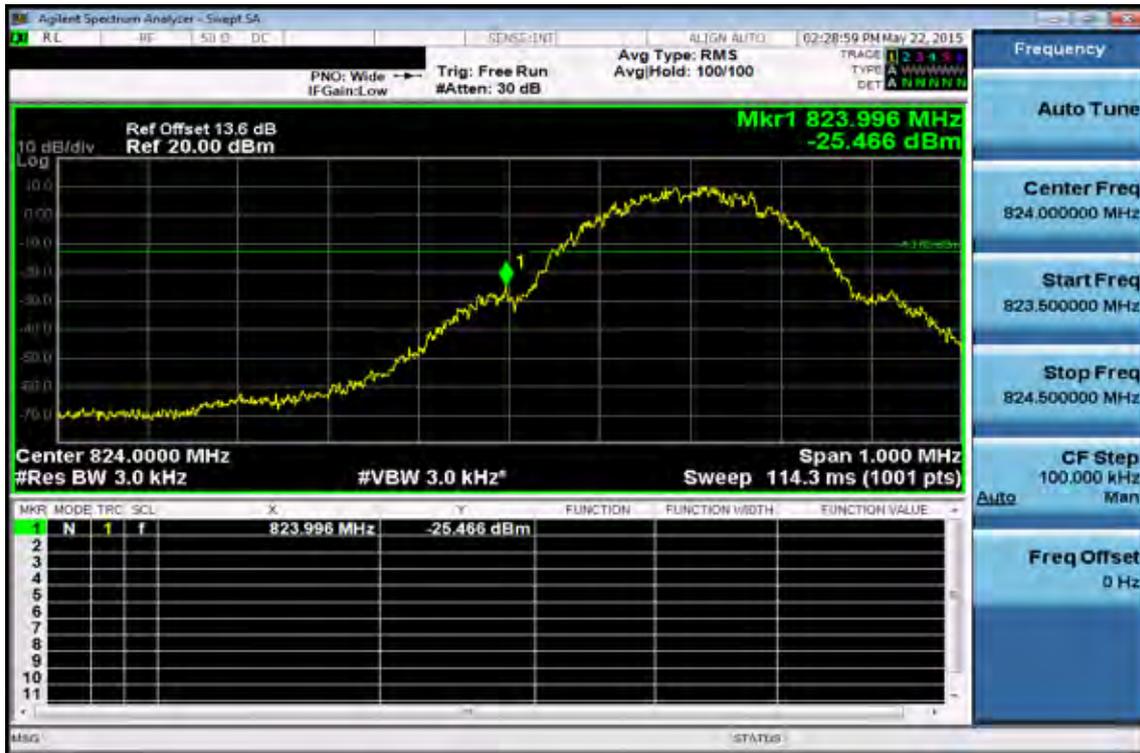
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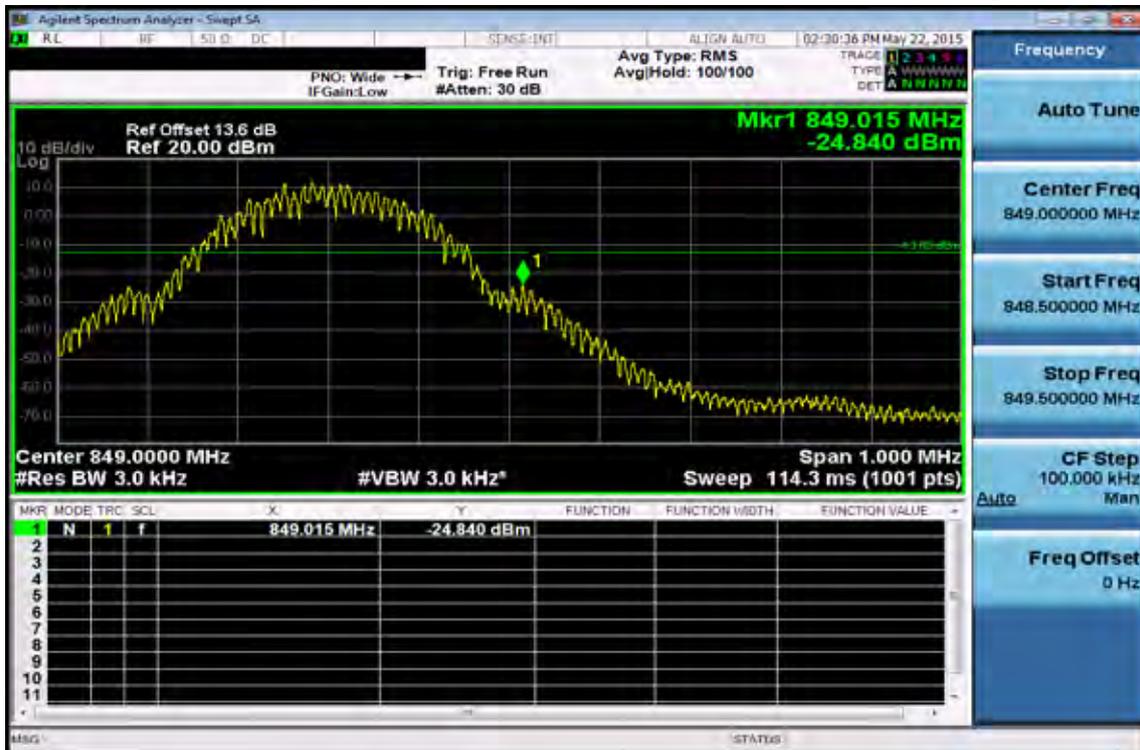
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**Band edge emission at antenna terminals – GSM 850 Channel Lowest**



**Band edge emission at antenna terminals – GSM 850 Channel Highest**



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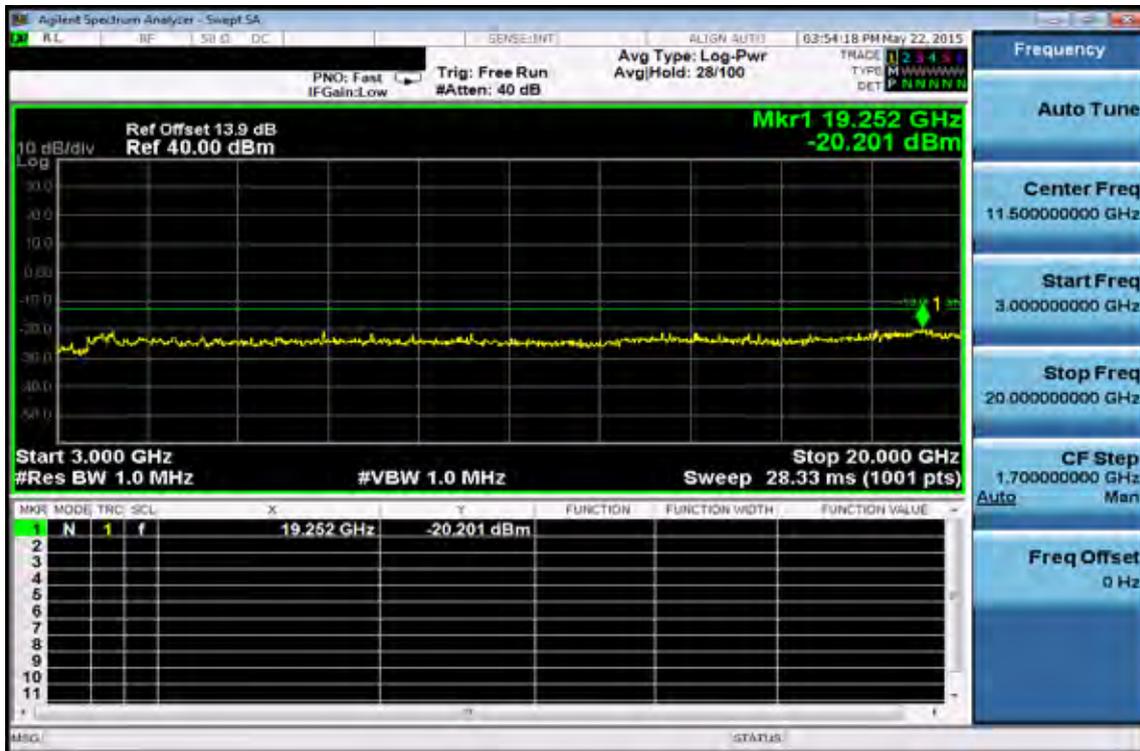
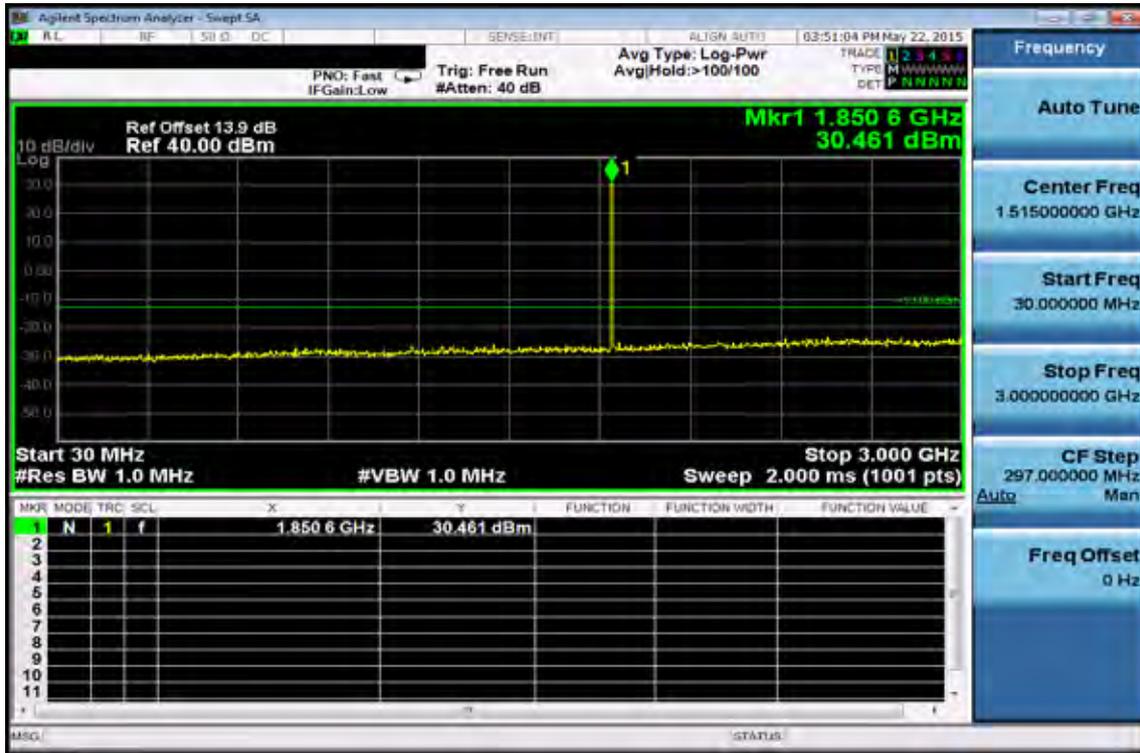
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Out of Band emission at antenna terminals – GSM 1900 Channel Lowest



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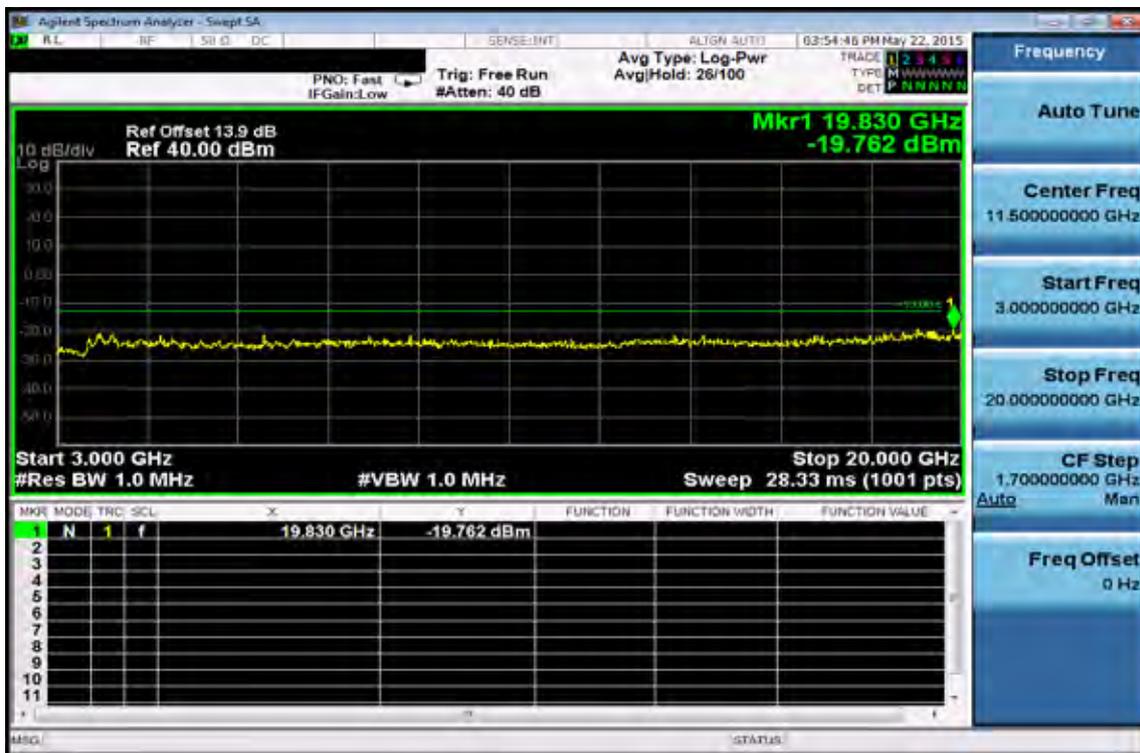
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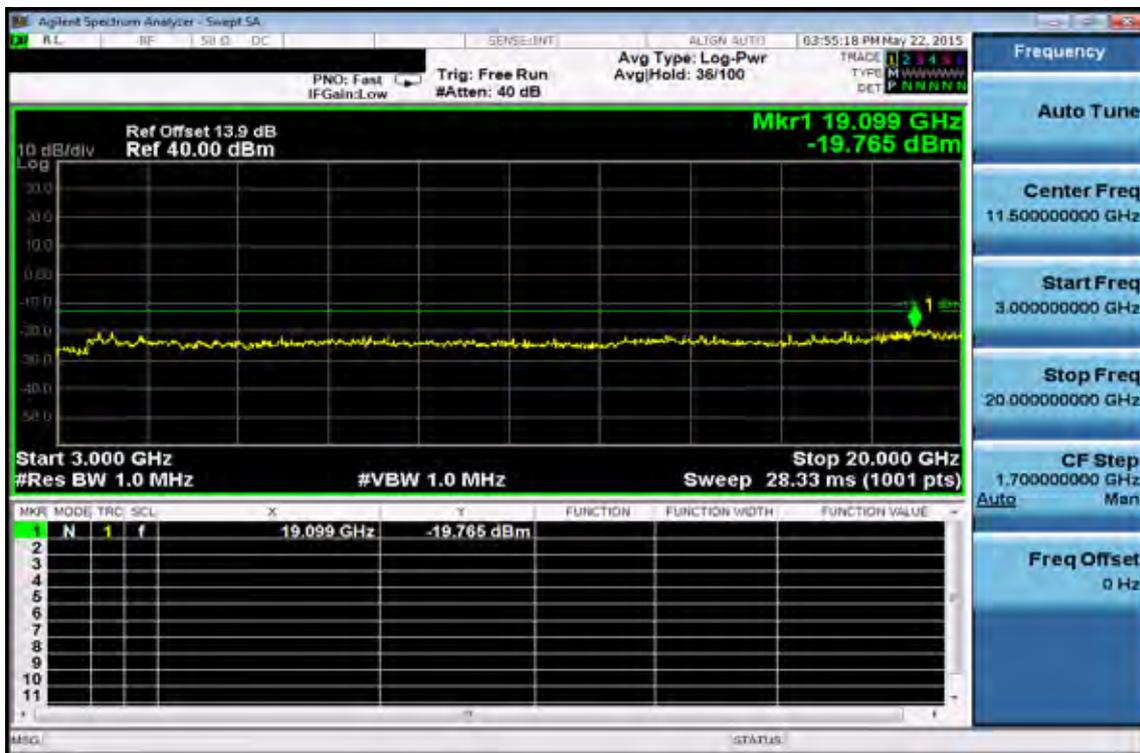
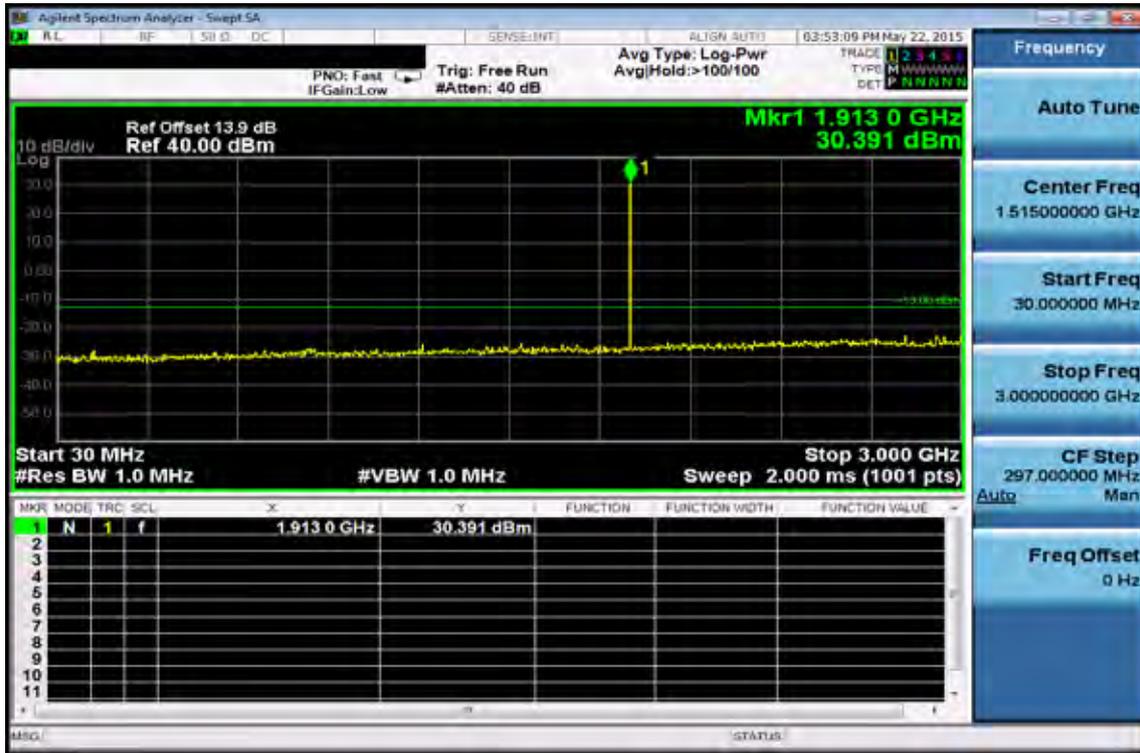
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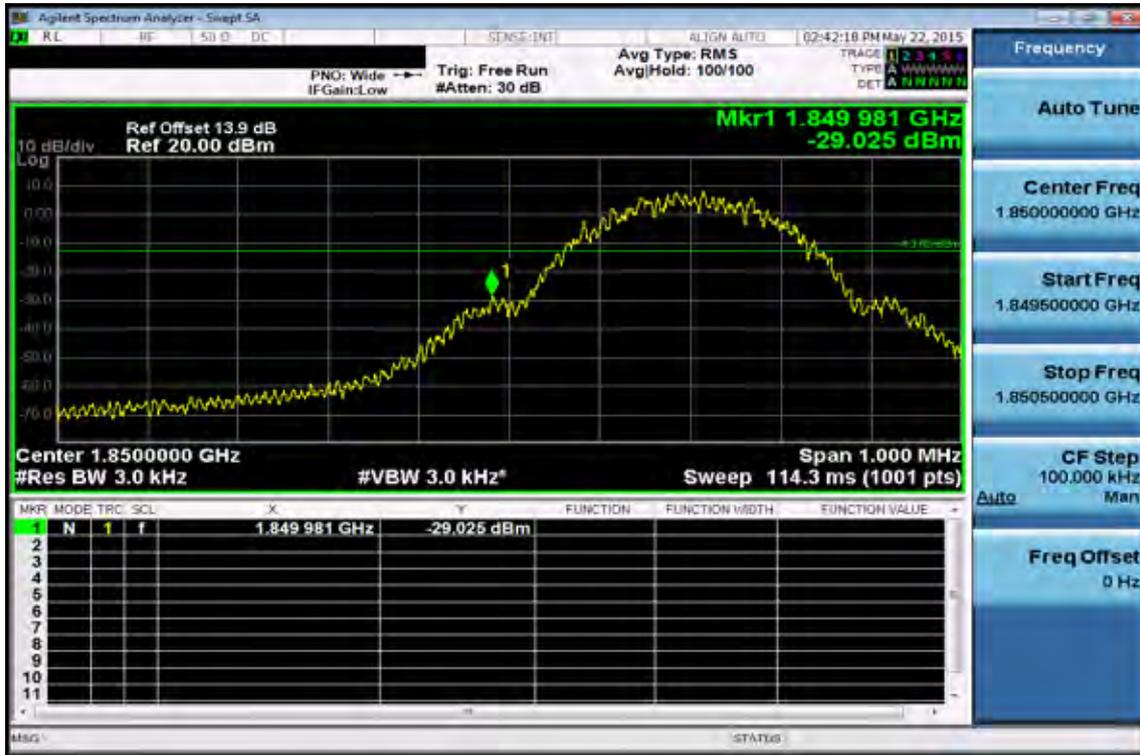
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**Band edge emission at antenna terminals – GSM 1900 Channel Lowest**



**Band edge emission at antenna terminals – GSM 1900 Channel Highest**



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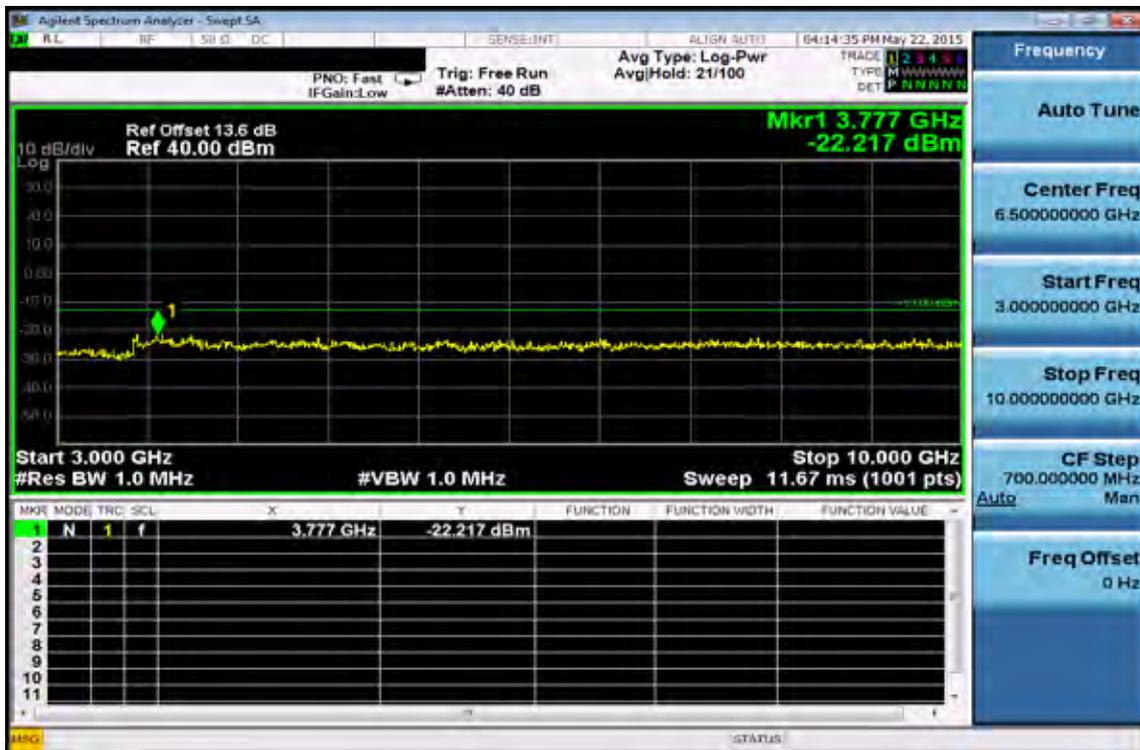
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Out of Band emission at antenna terminals – EDGE 850 Channel Lowest



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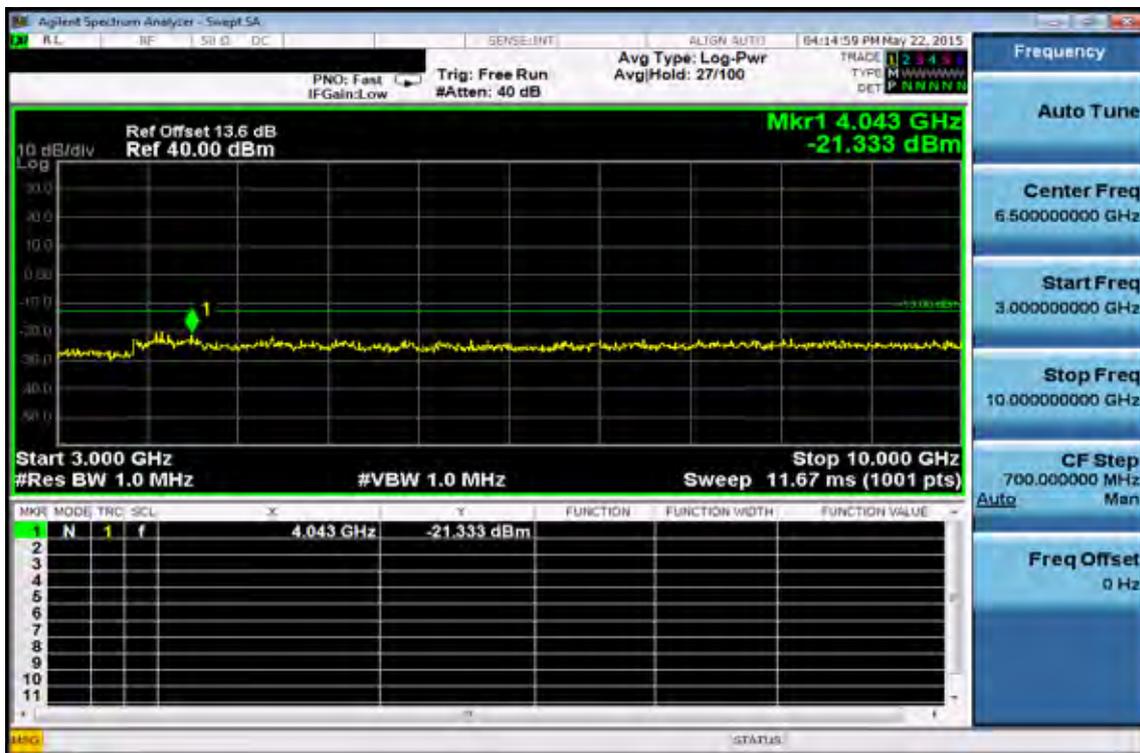
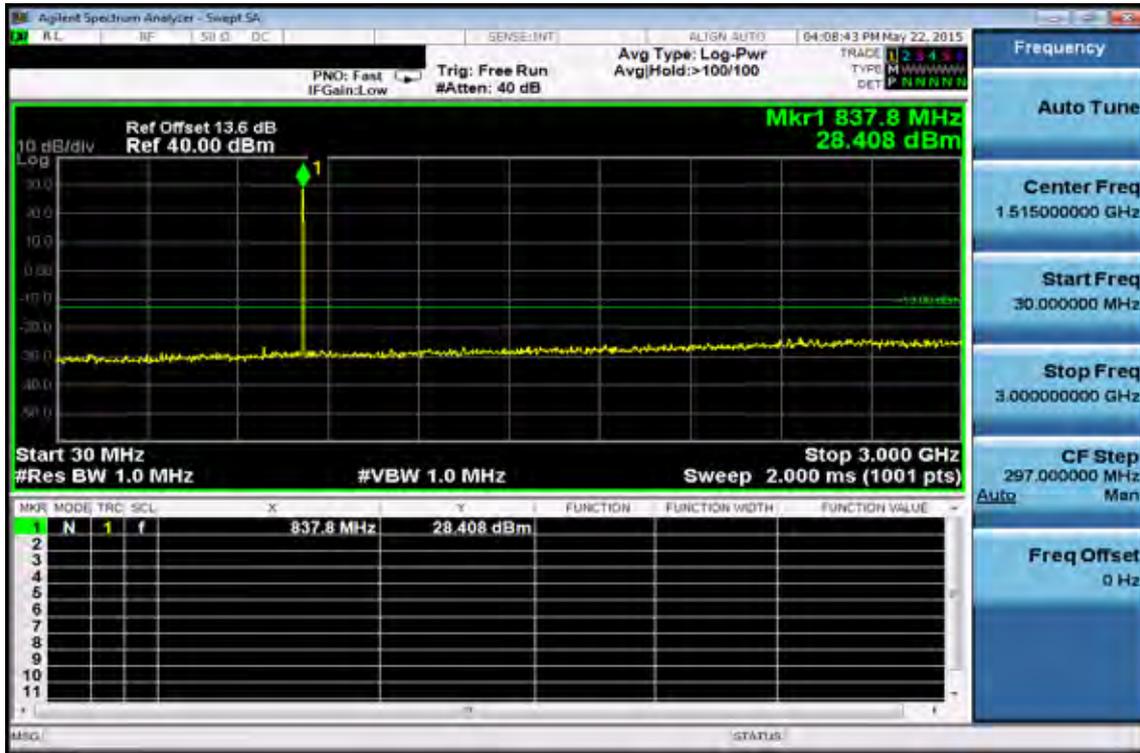
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Out of Band emission at antenna terminals – EDGE 850 Channel Mid



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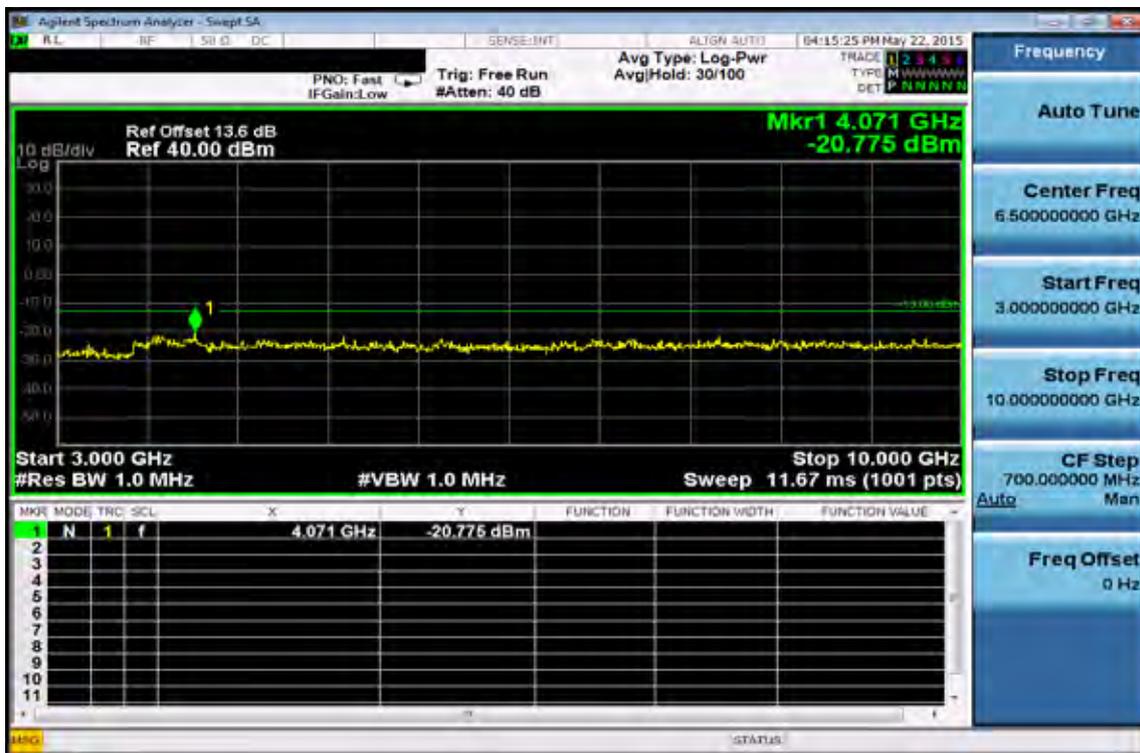
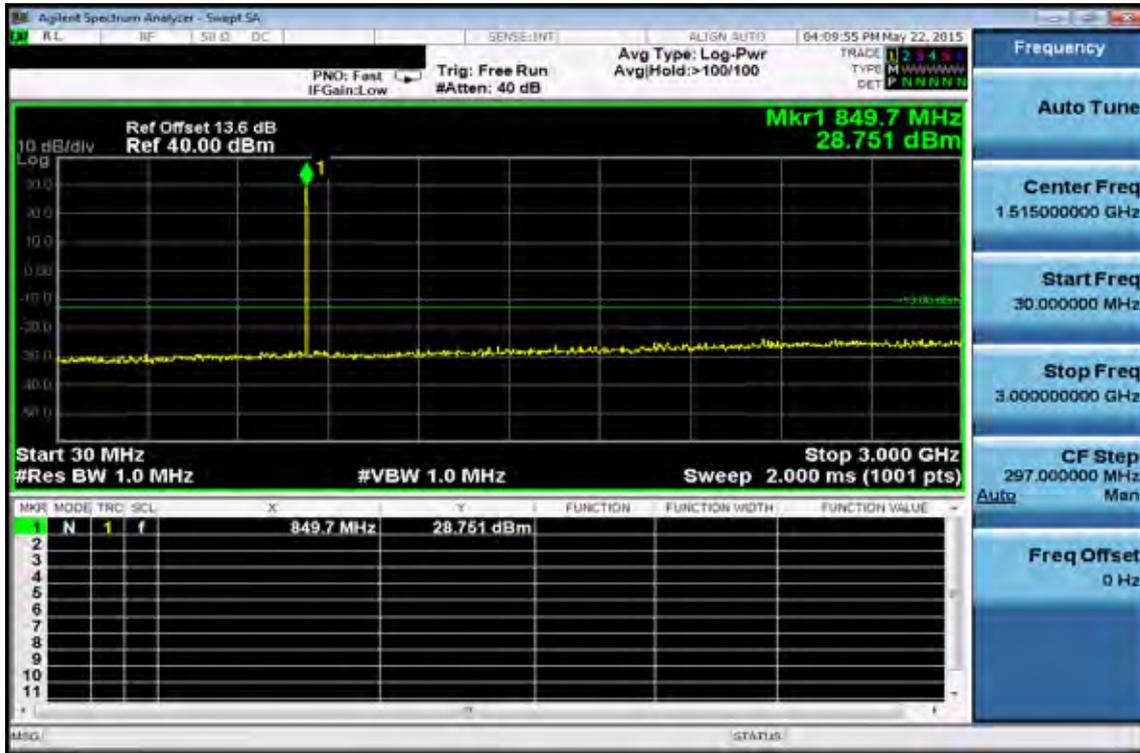
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Out of Band emission at antenna terminals – EDGE 850 Channel Highest



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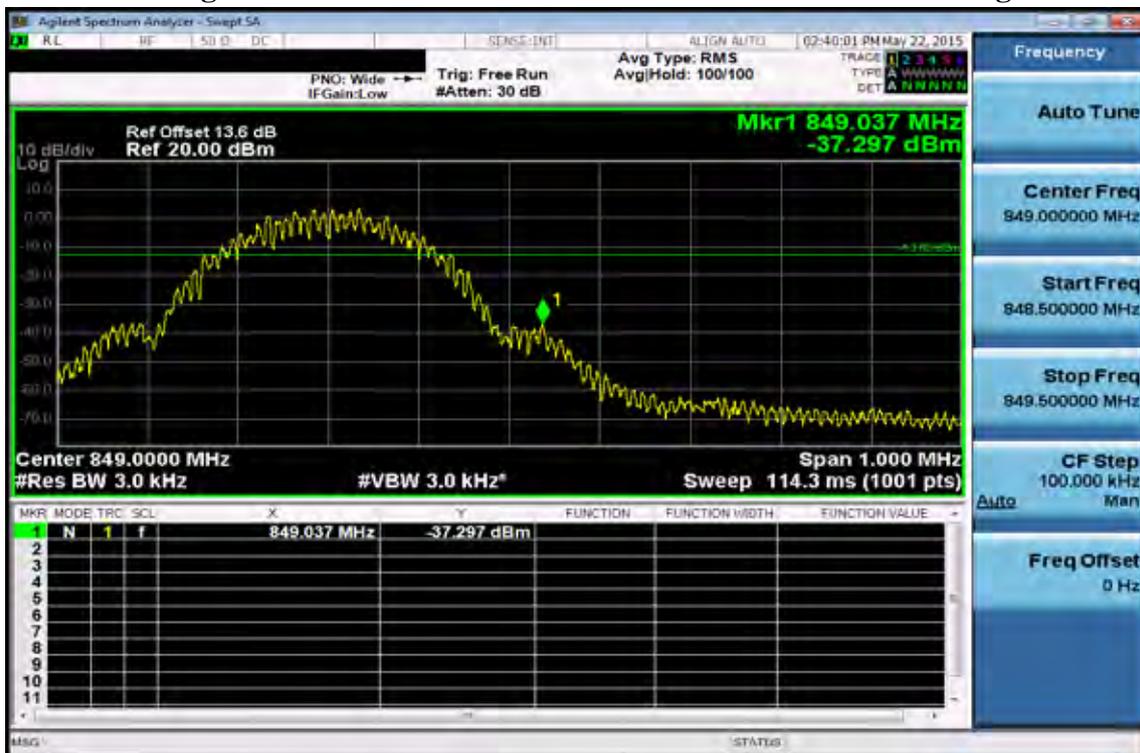
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**Band edge emission at antenna terminals – EDGE 850 Channel Lowest**



**Band edge emission at antenna terminals – EDGE 850 Channel Highest**



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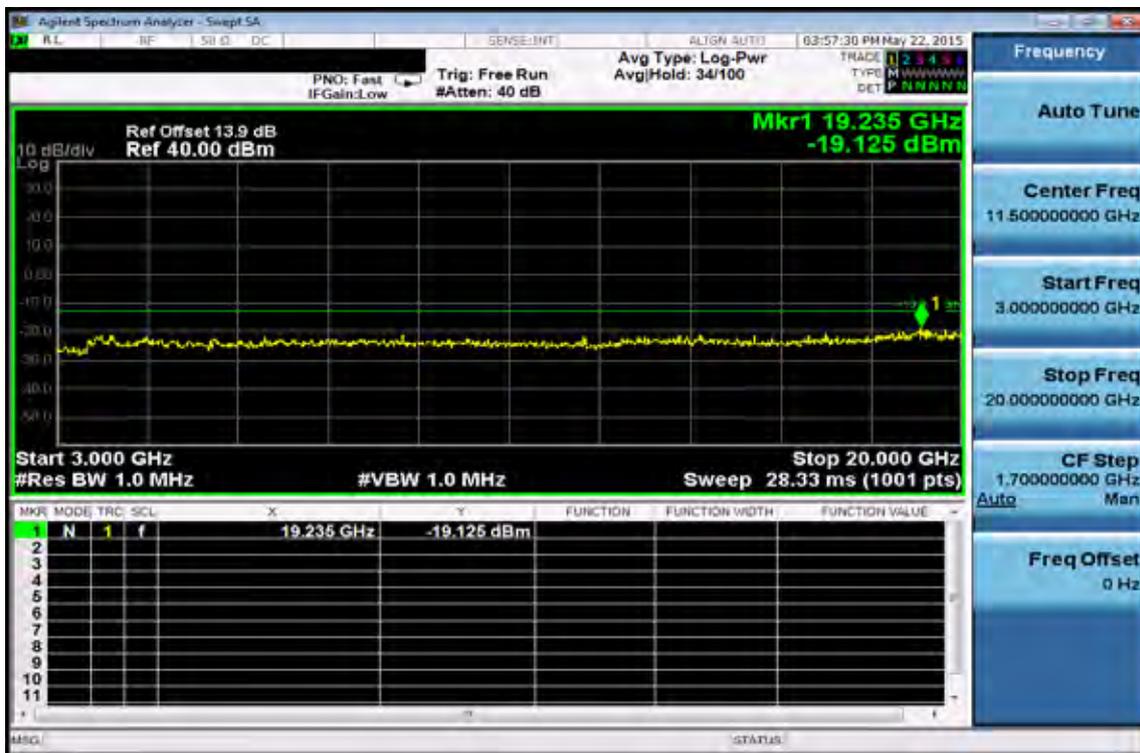
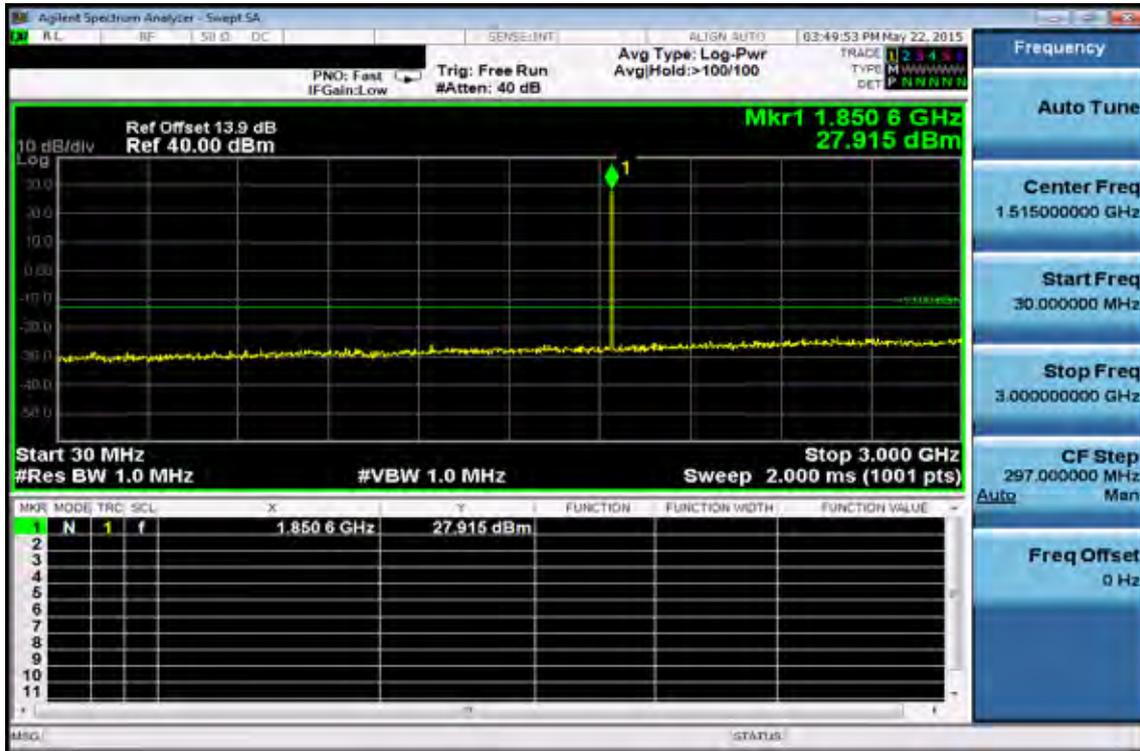
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Out of Band emission at antenna terminals – EDGE 1900 Channel Lowest



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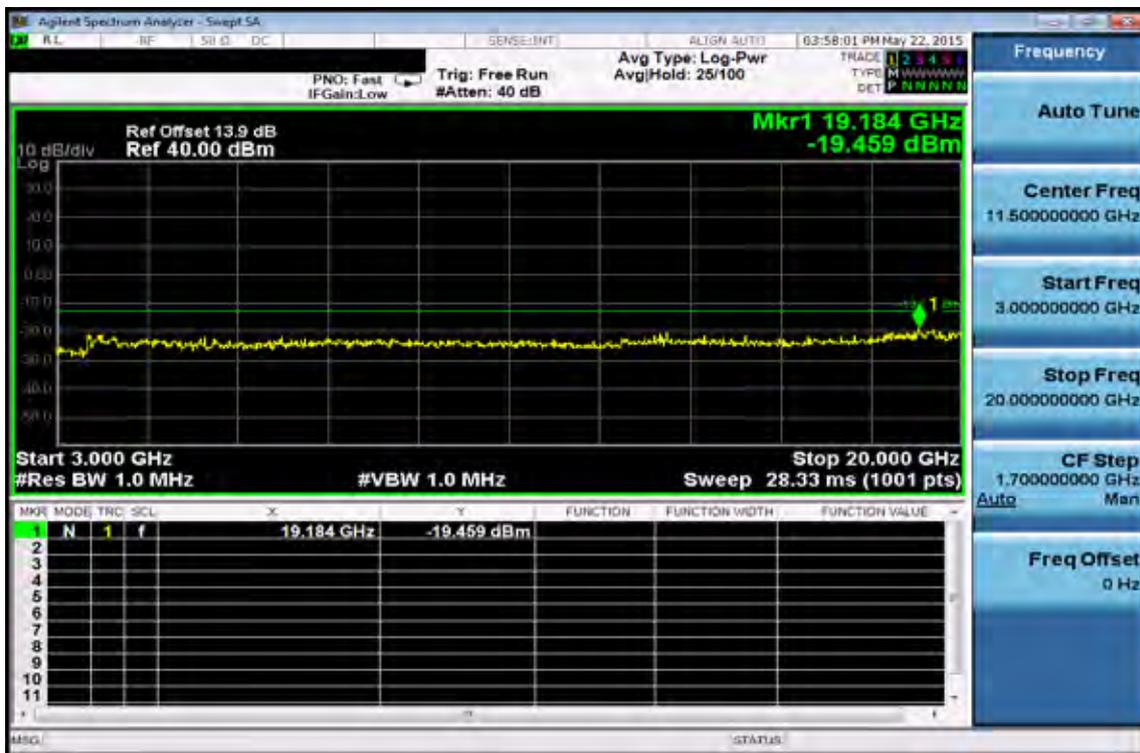
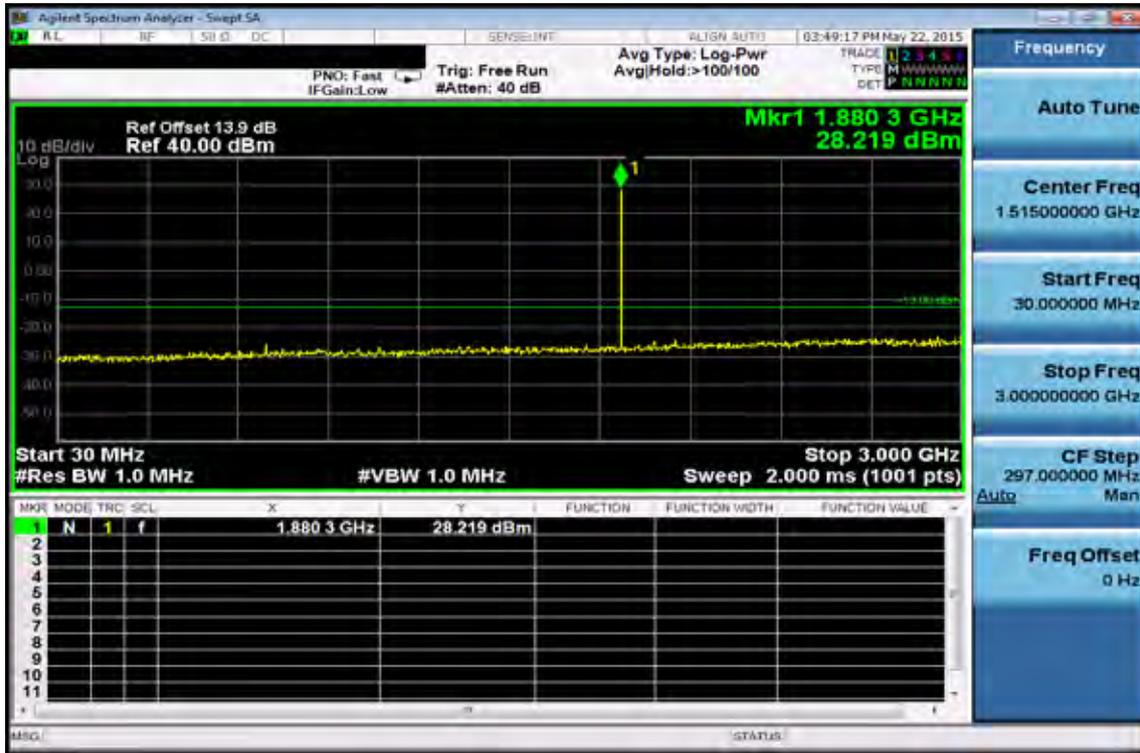
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Out of Band emission at antenna terminals – EDGE 1900 Channel Mid



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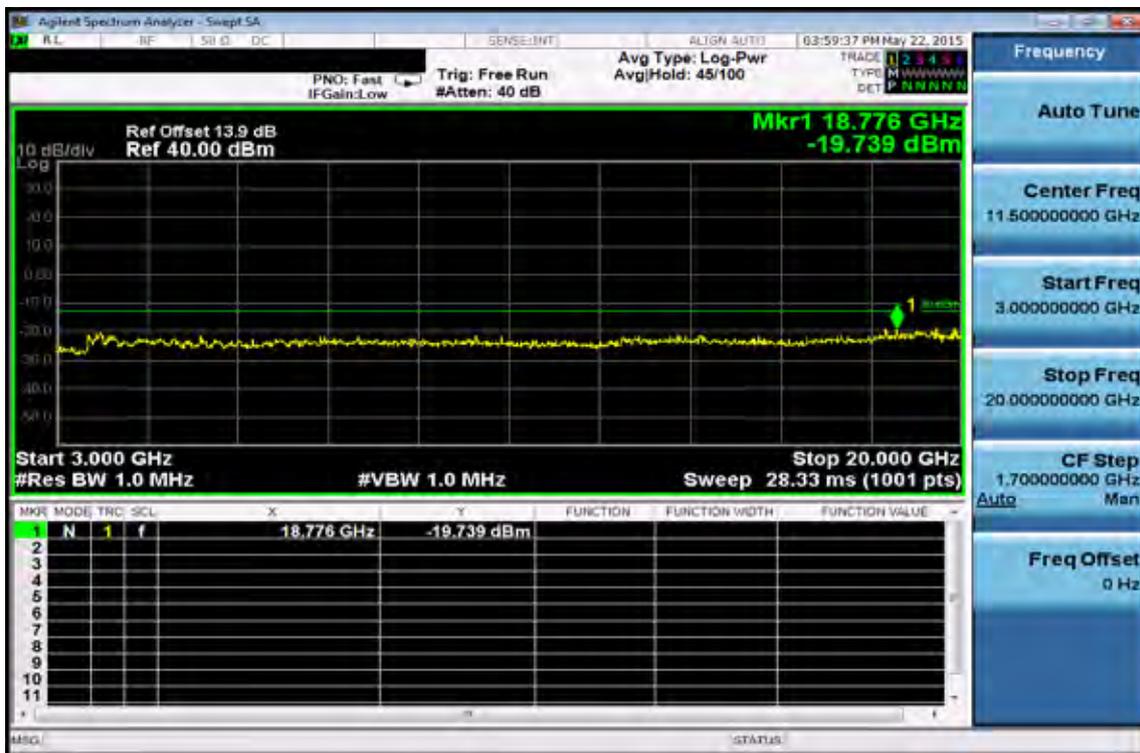
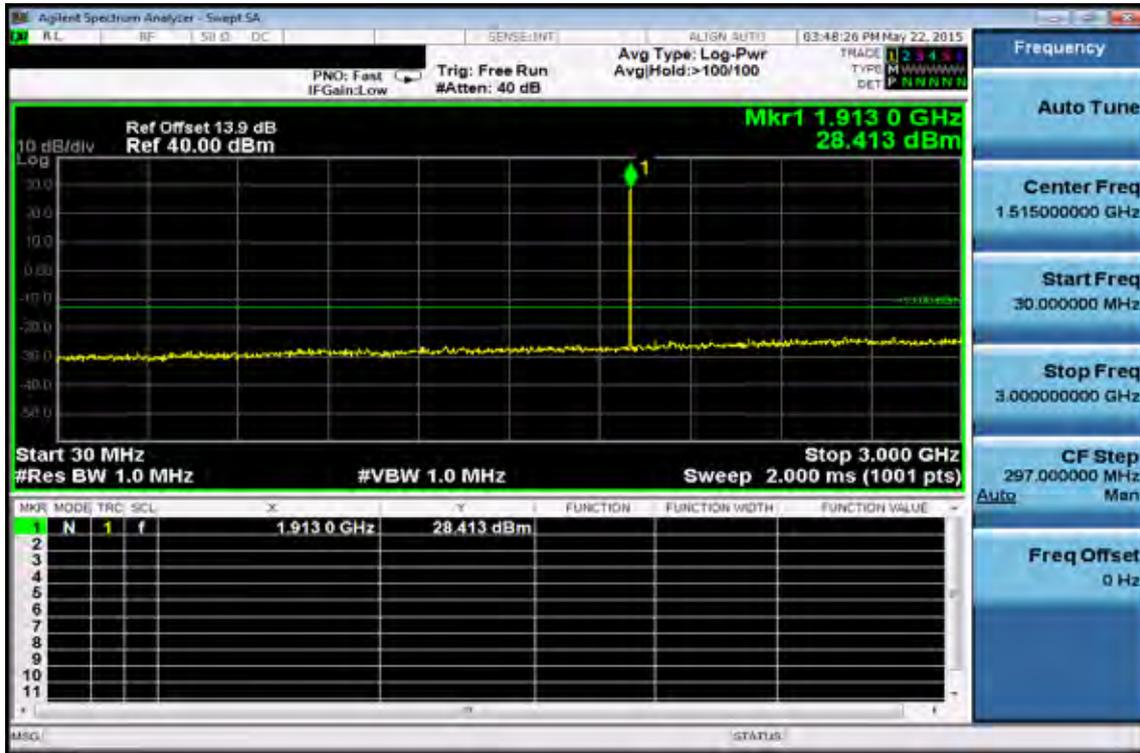
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Out of Band emission at antenna terminals – EDGE 1900 Channel Highest



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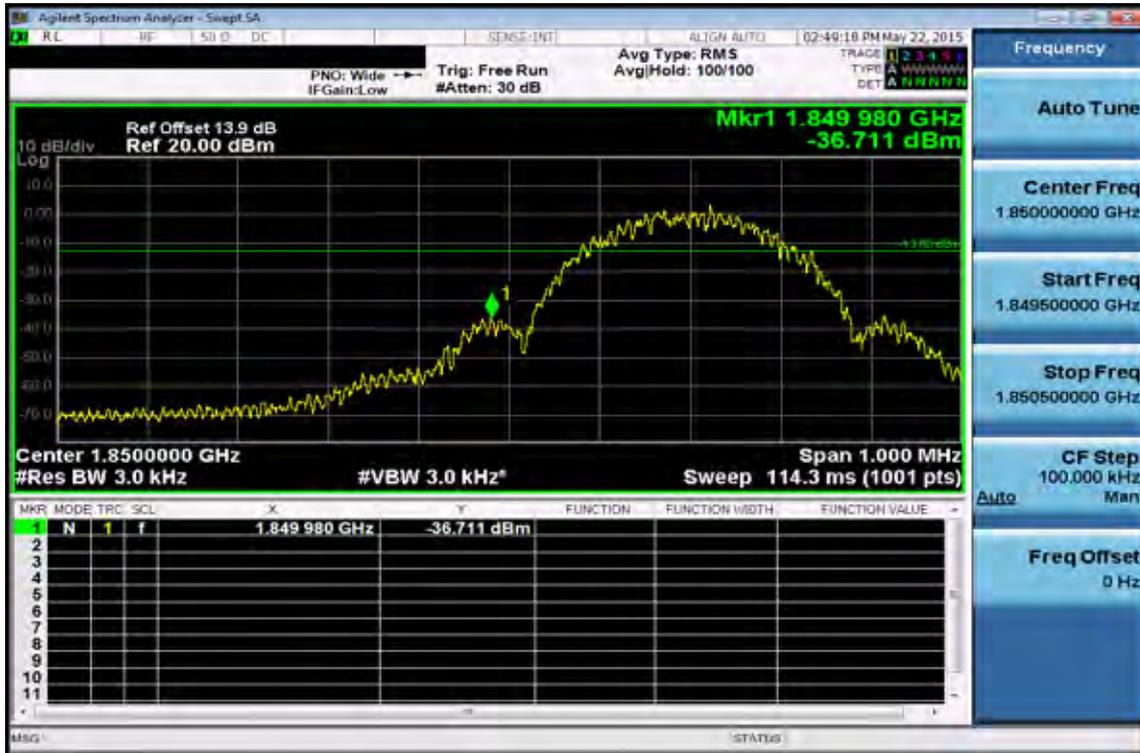
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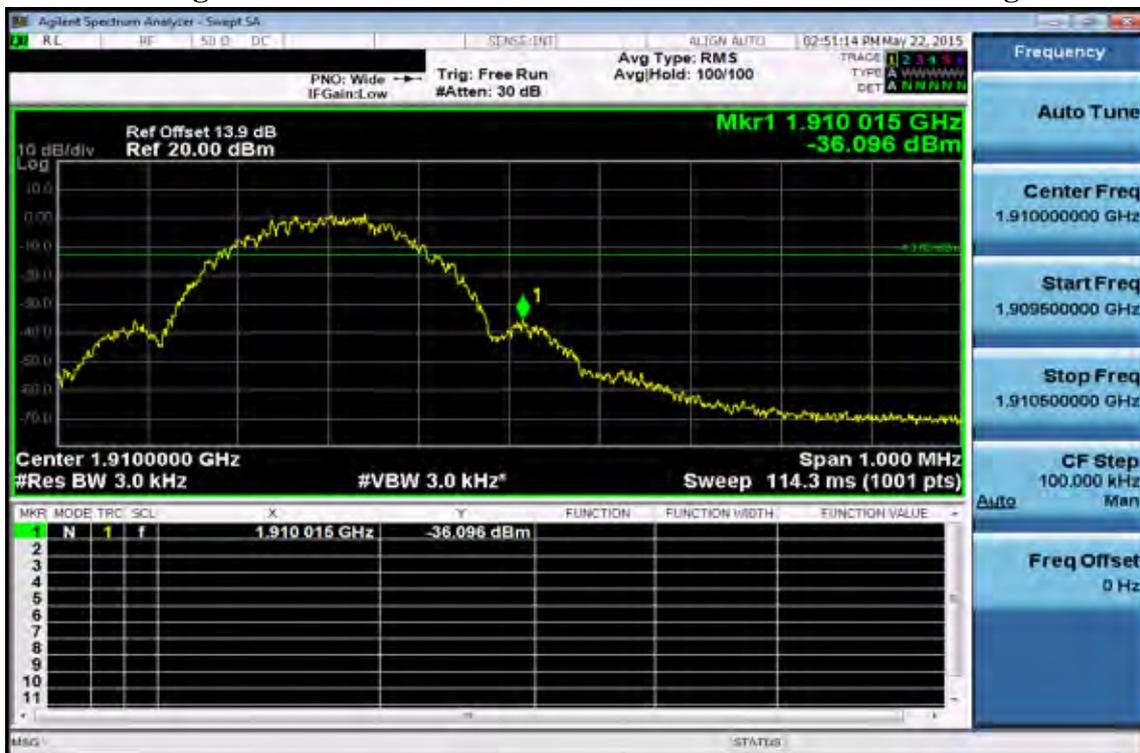
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**Band edge emission at antenna terminals – EDGE 1900 Channel Lowest**



**Band edge emission at antenna terminals – EDGE 1900 Channel Highest**



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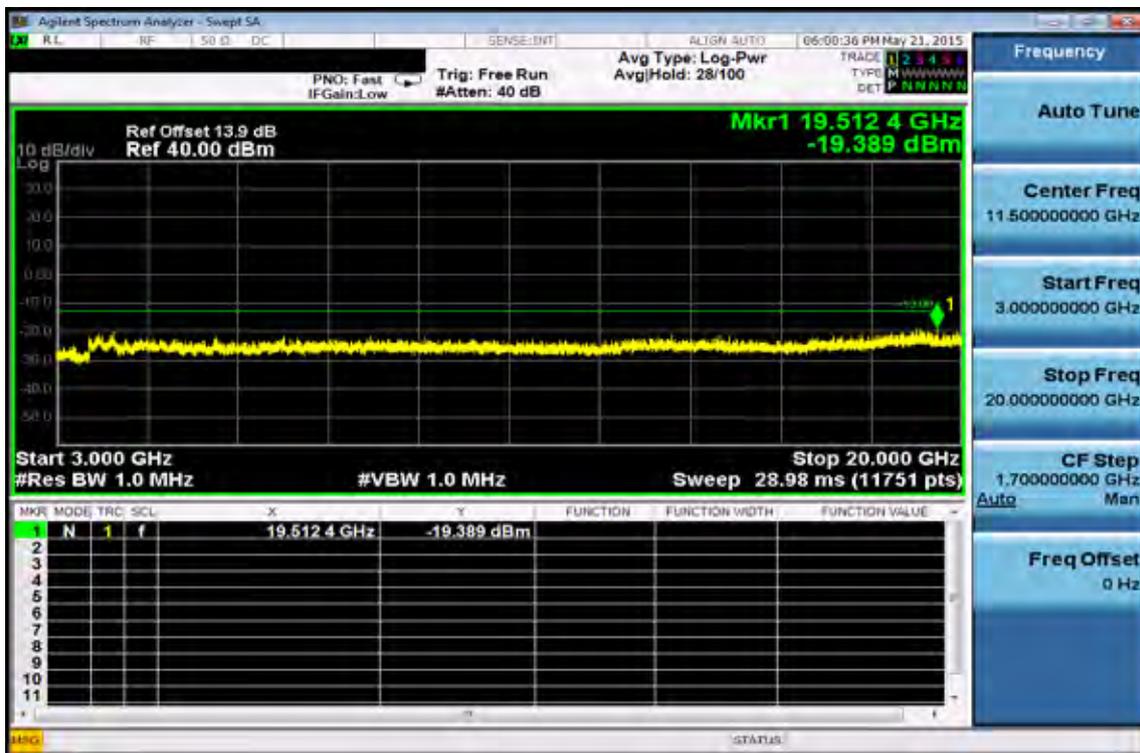
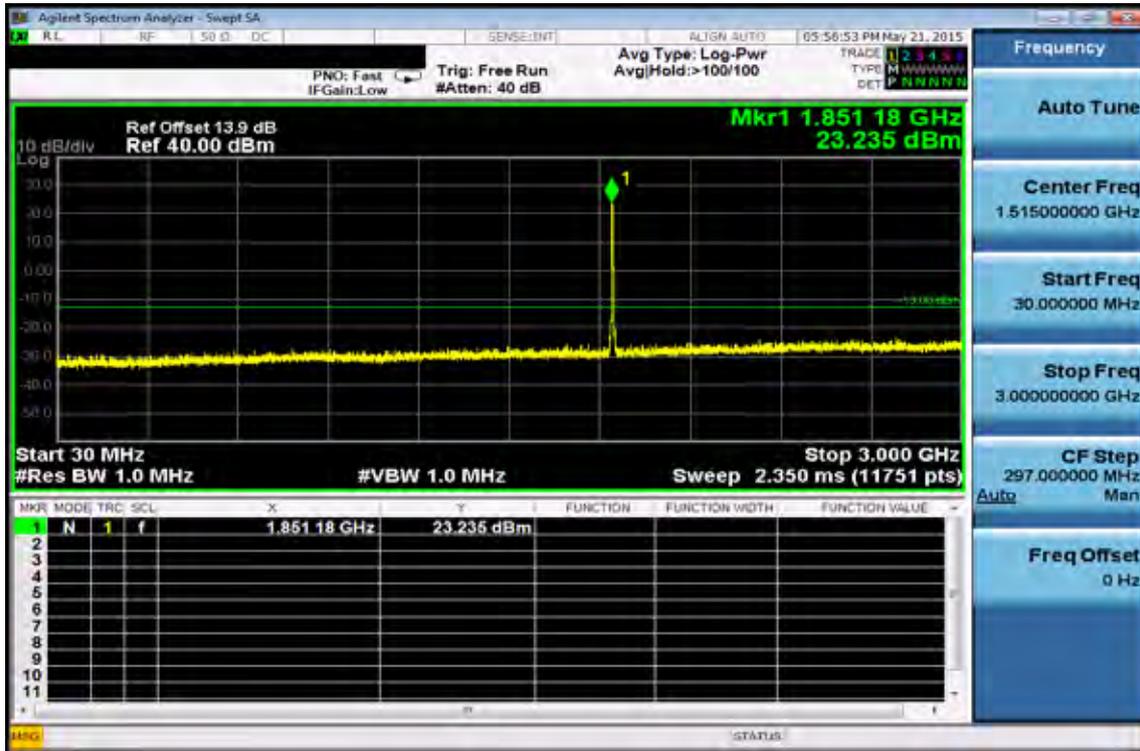
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Out of Band emission at antenna terminals – WCDMA II Channel Lowest



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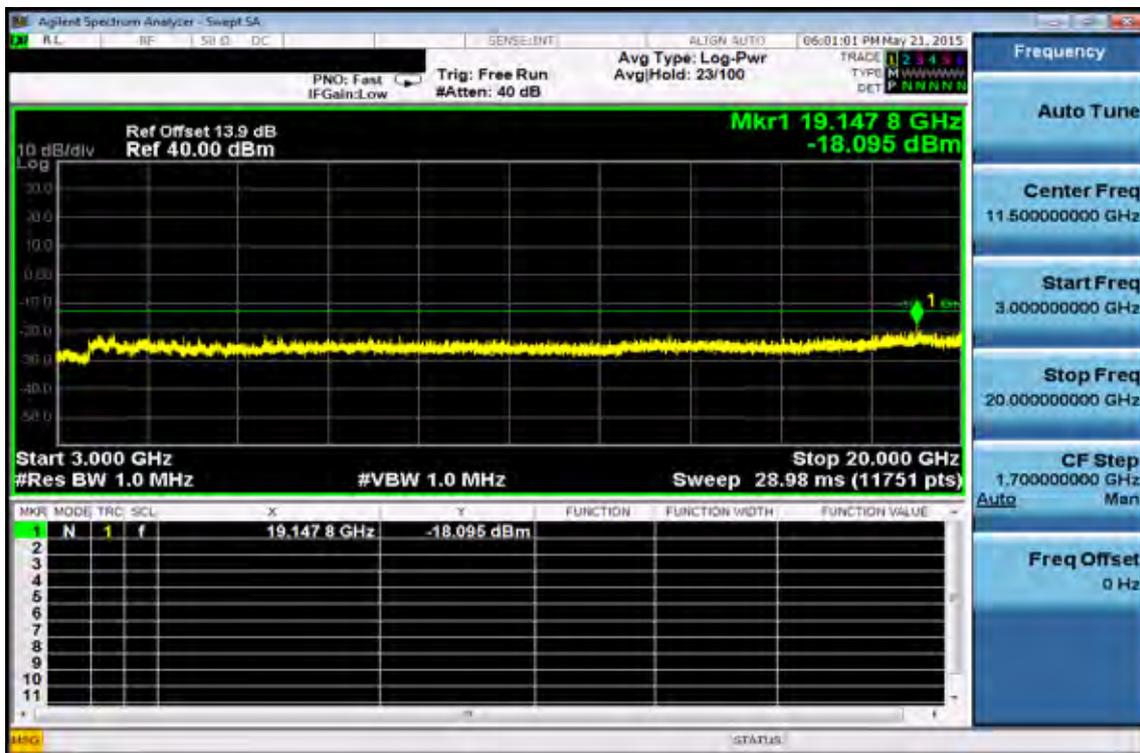
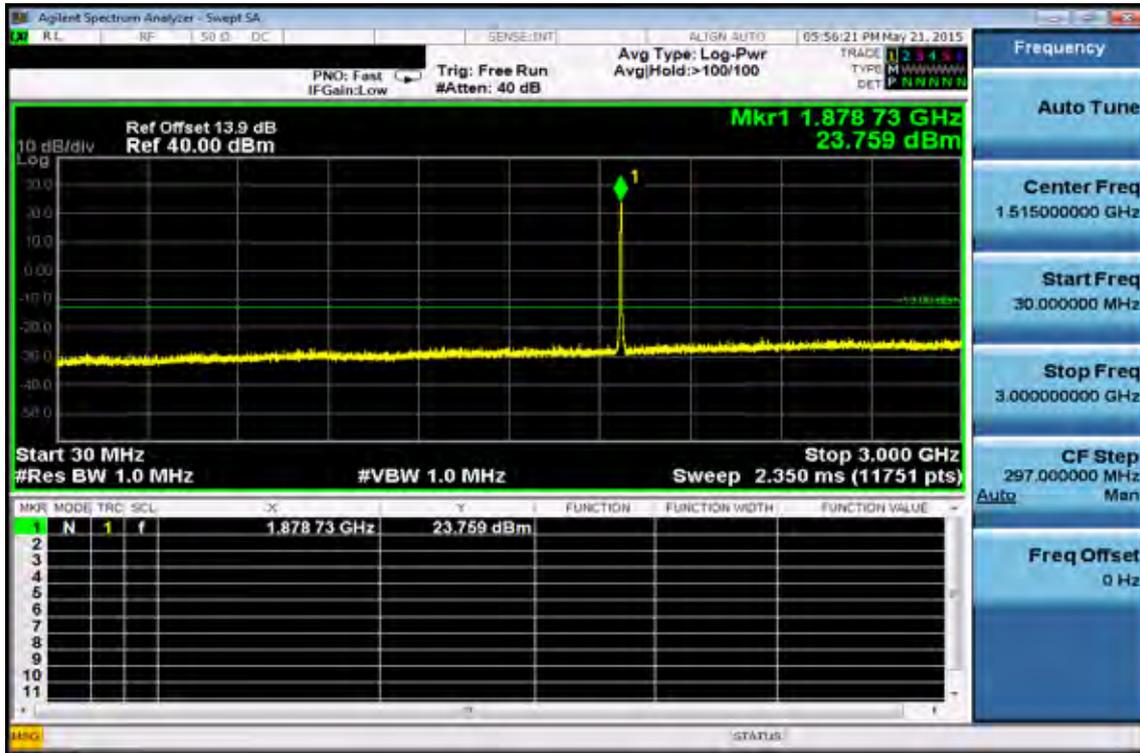
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Out of Band emission at antenna terminals – WCDMA II Channel Mid



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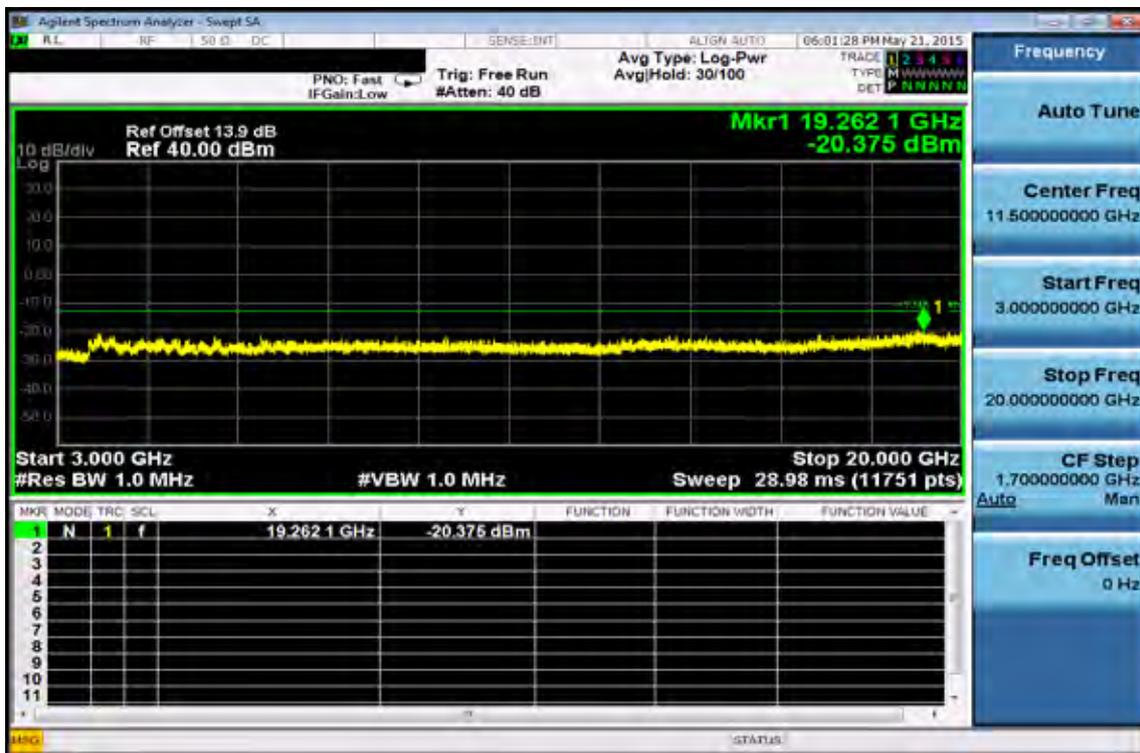
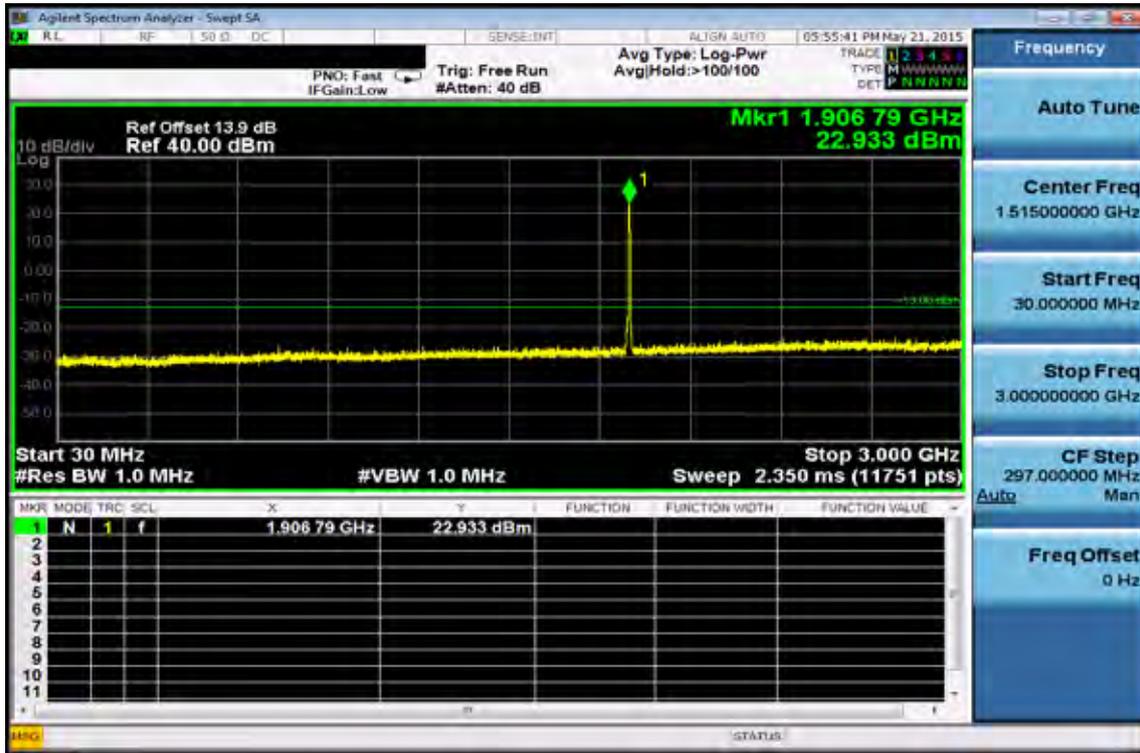
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Out of Band emission at antenna terminals – WCDMA II Channel Highest



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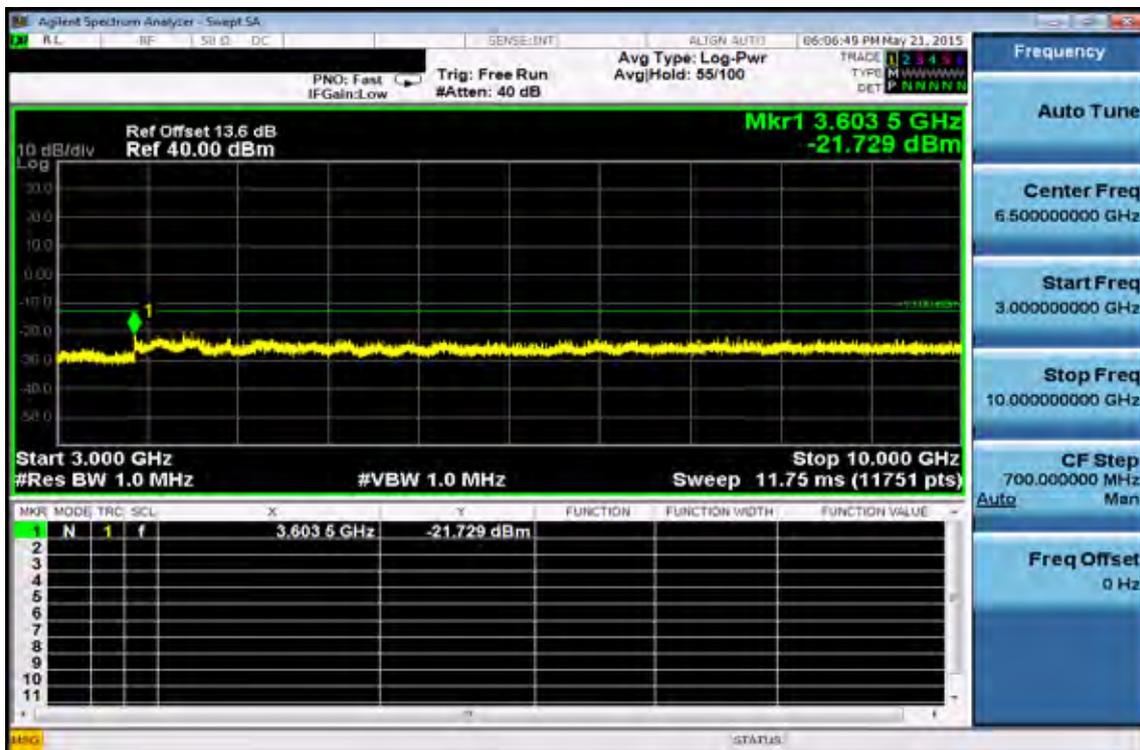
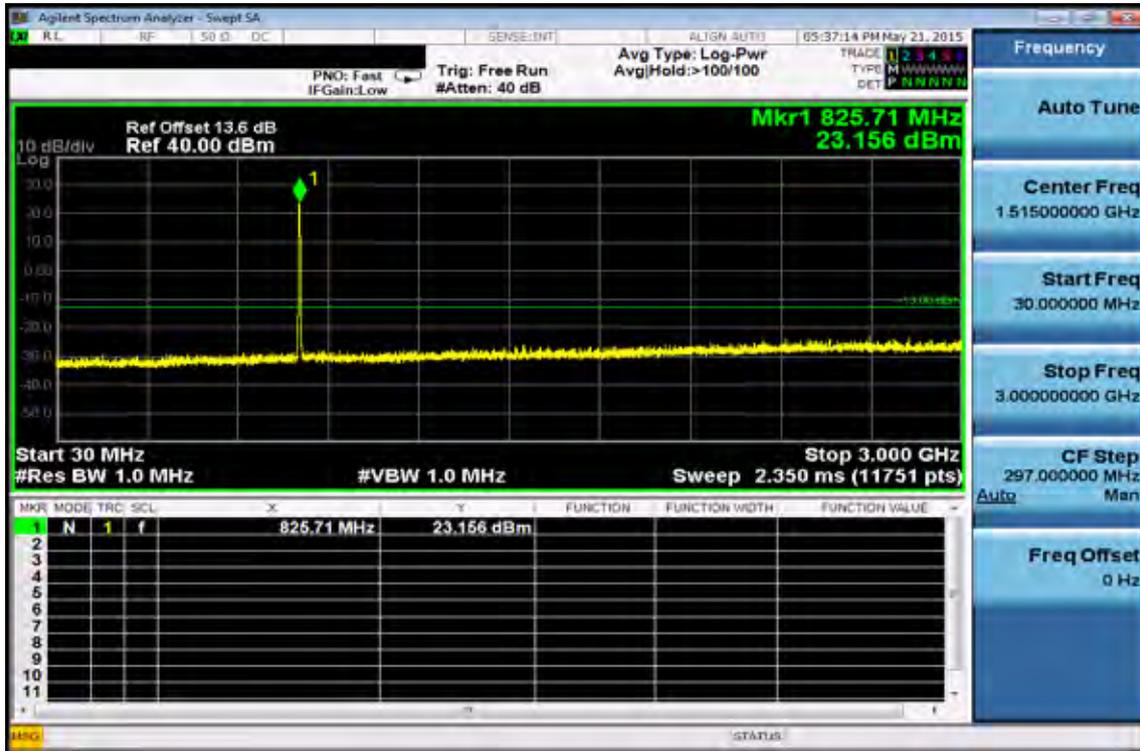
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Out of Band emission at antenna terminals – WCDMA V Channel Lowest



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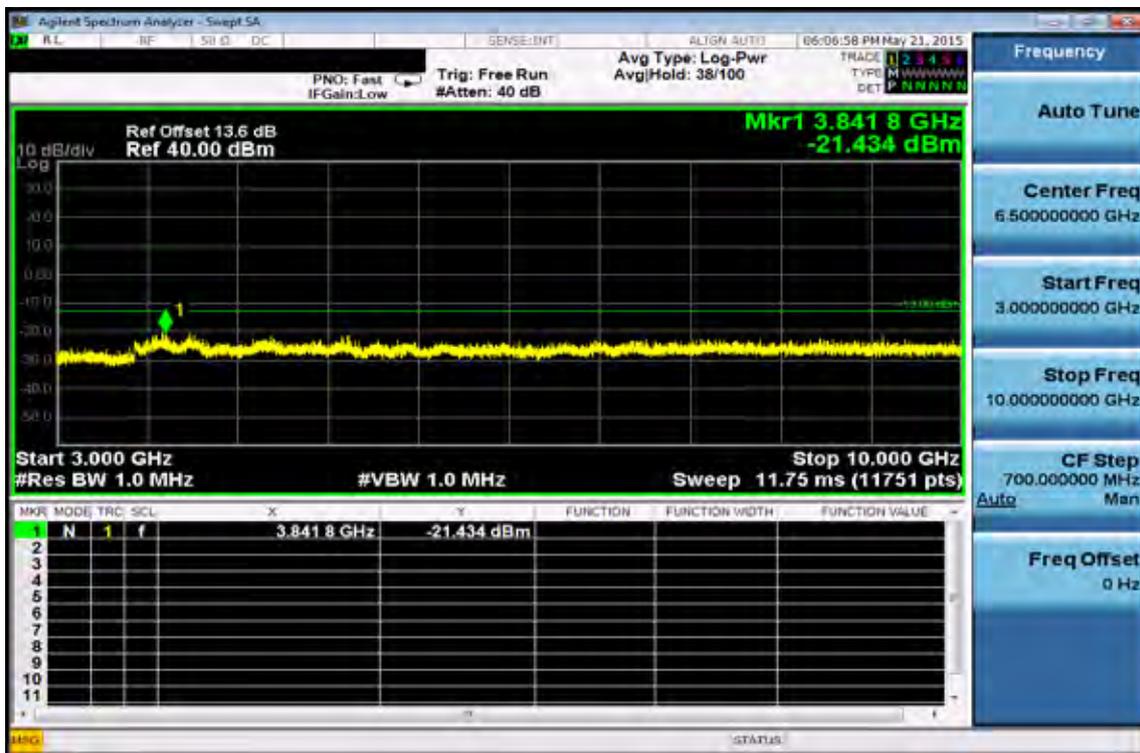
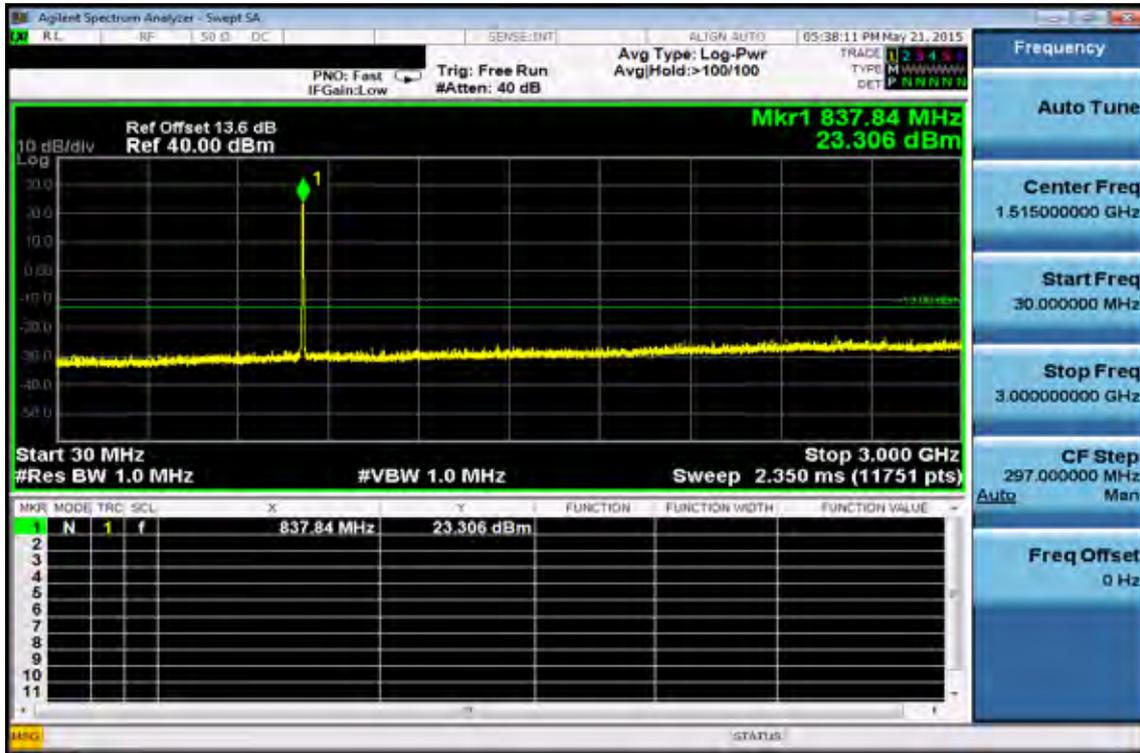
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Out of Band emission at antenna terminals – WCDMA V Channel Mid



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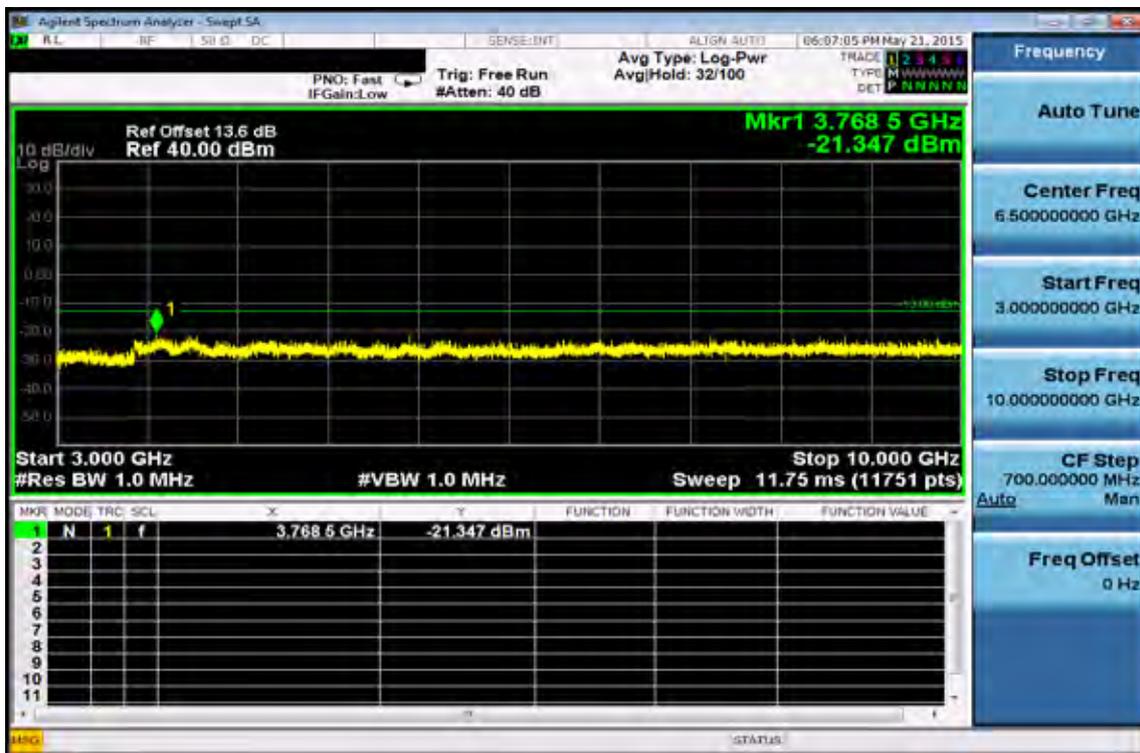
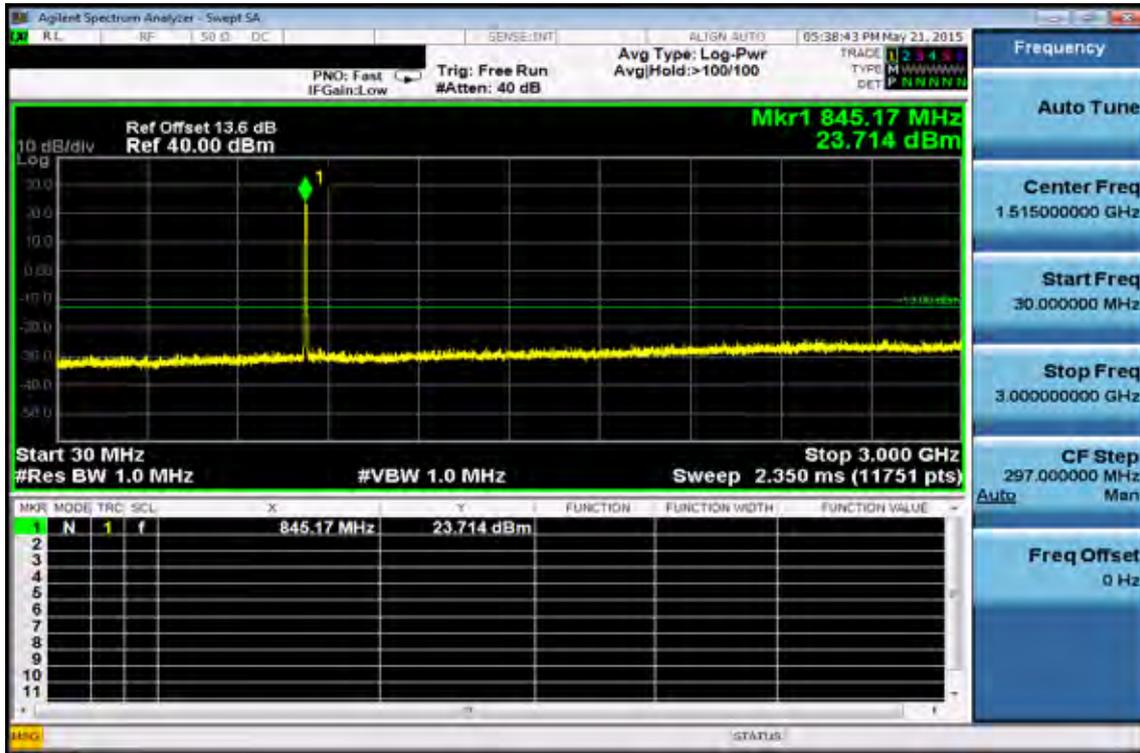
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Out of Band emission at antenna terminals – WCDMA V Channel Highest



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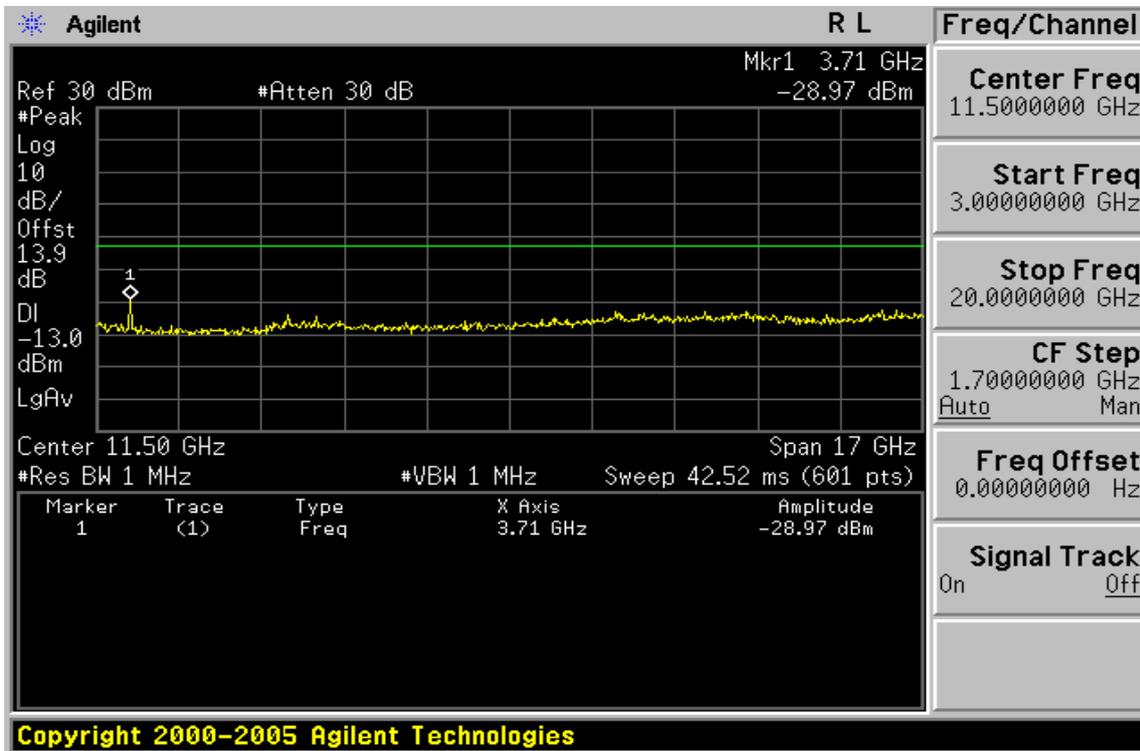
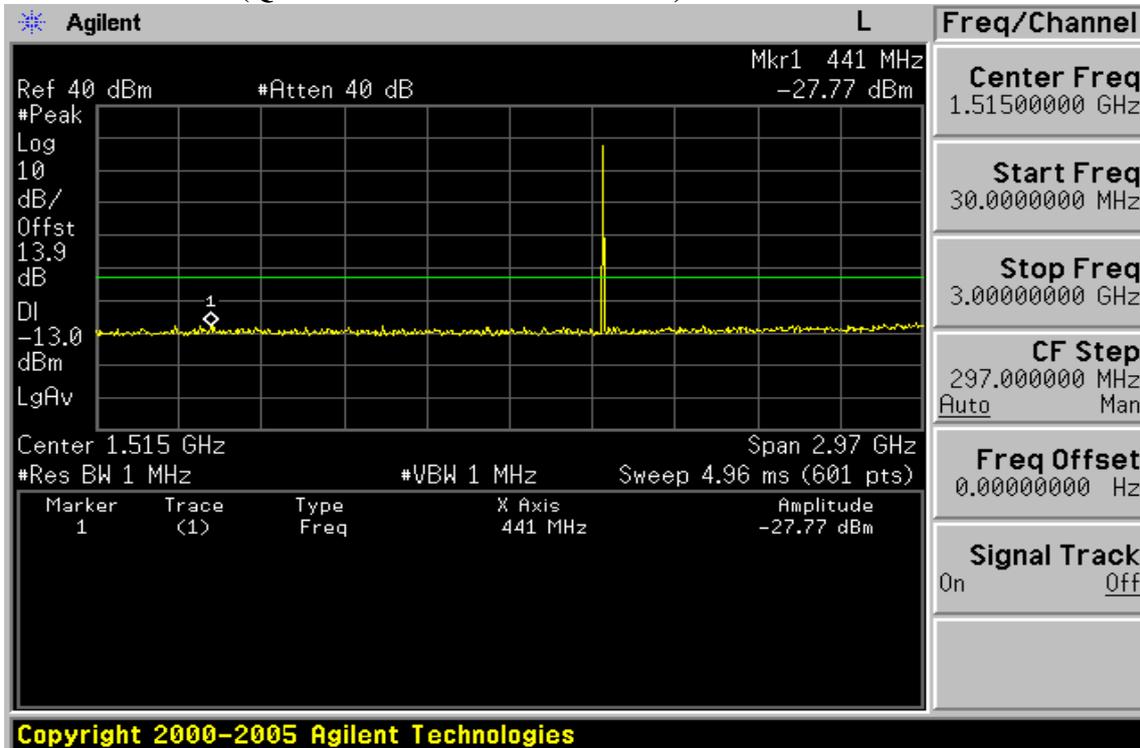
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**Out of Band emission at antenna terminals–1.4MHz BW LTE-Band 2  
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



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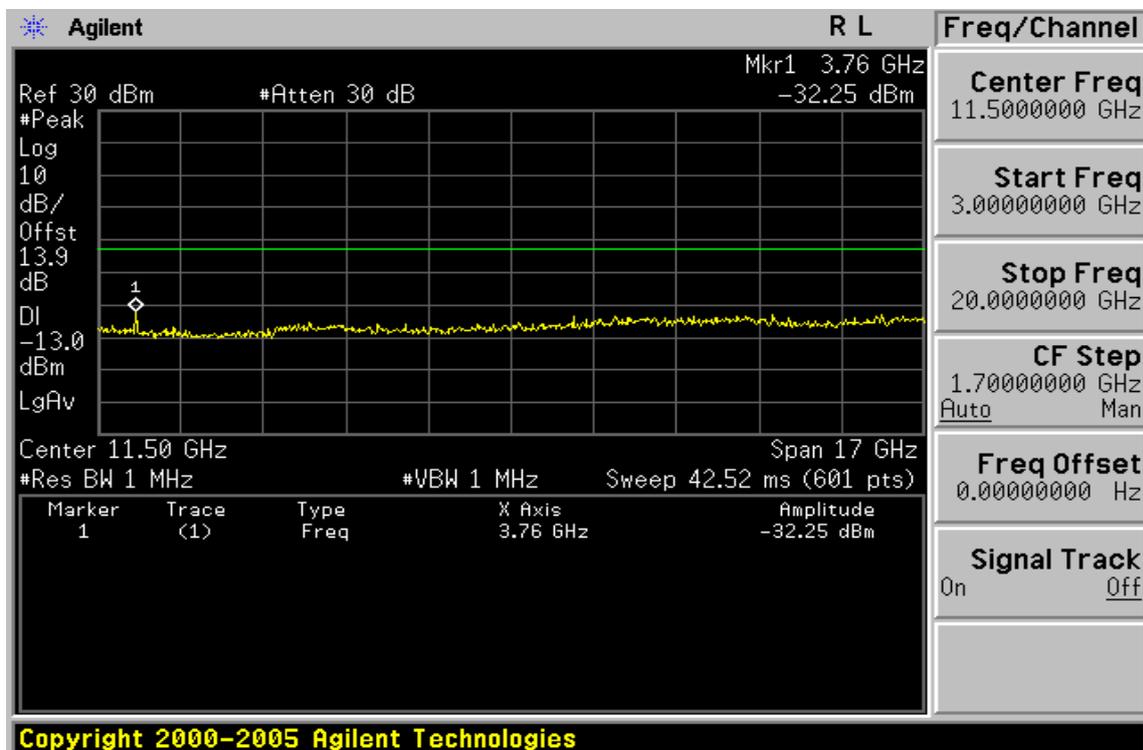
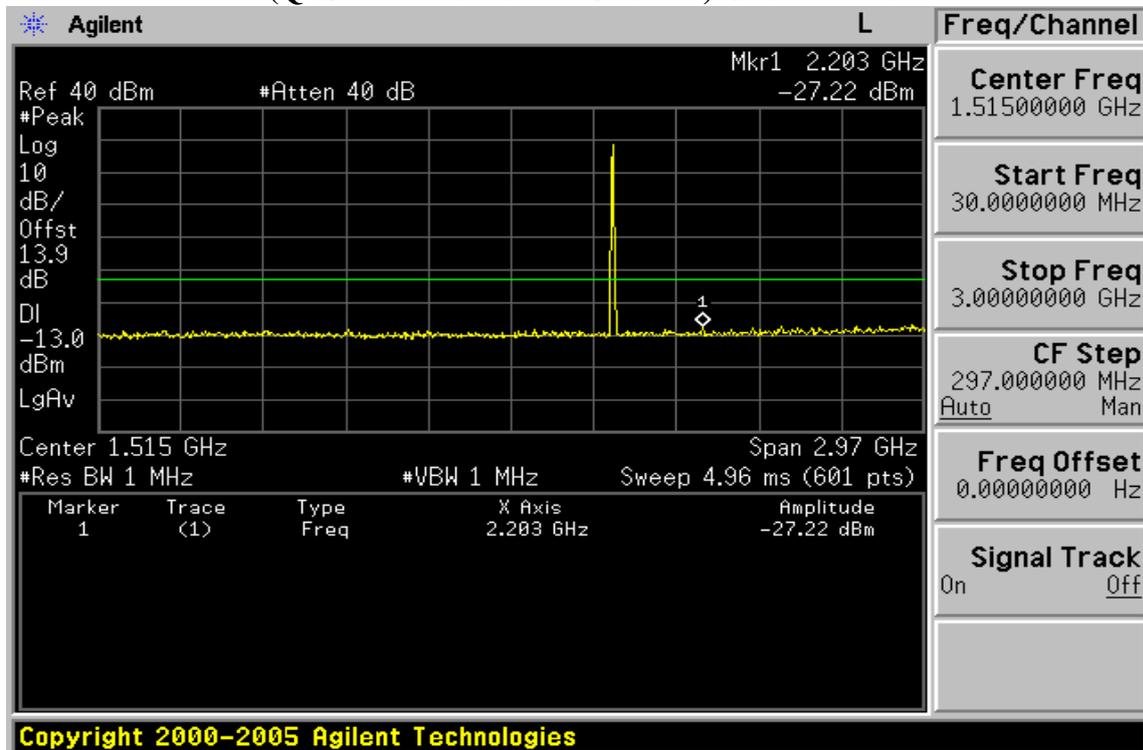
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**Out of Band emission at antenna terminals–1.4MHz BW LTE-Band 2  
(QPSK RB Number: 1 Offset: 0) Channel Mid**



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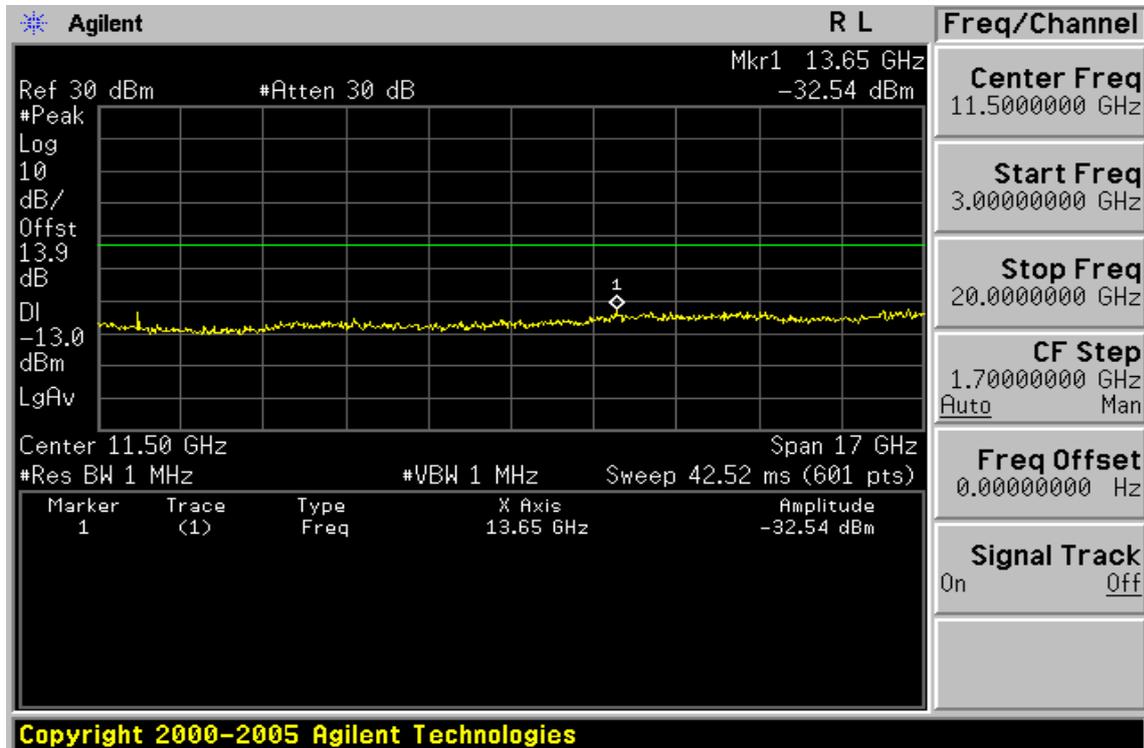
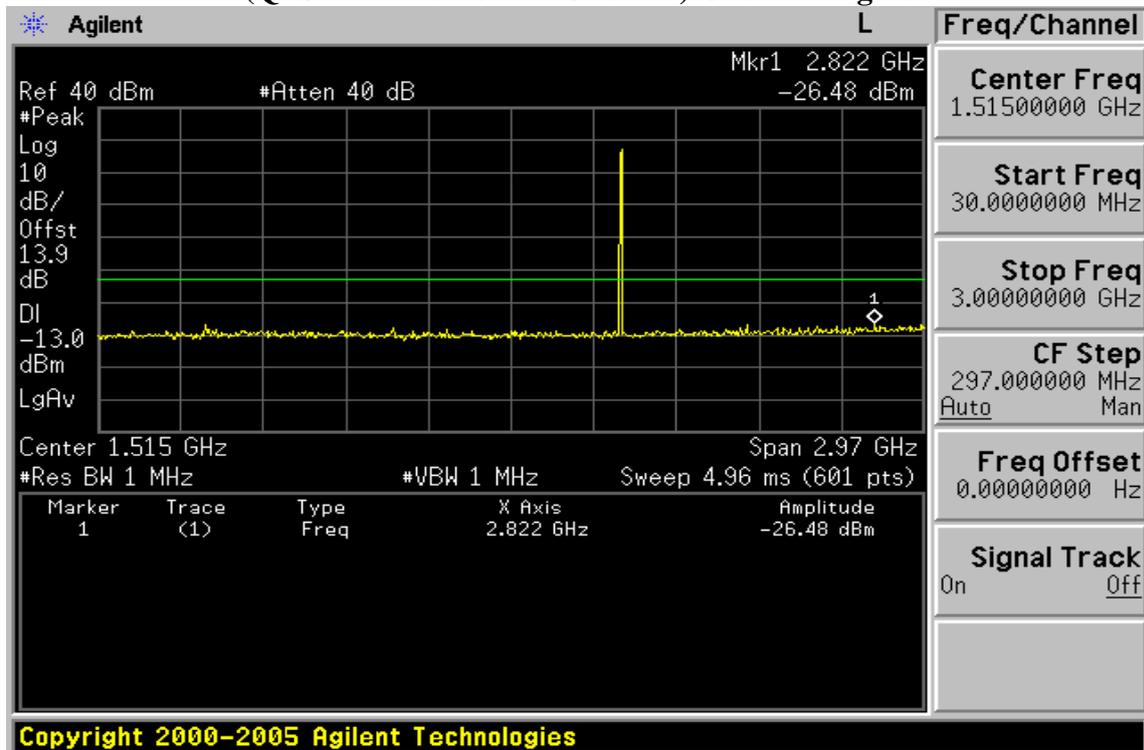
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**Out of Band emission at antenna terminals–1.4MHz BW LTE-Band 2  
(QPSK RB Number: 1 Offset: 0) Channel Highest**



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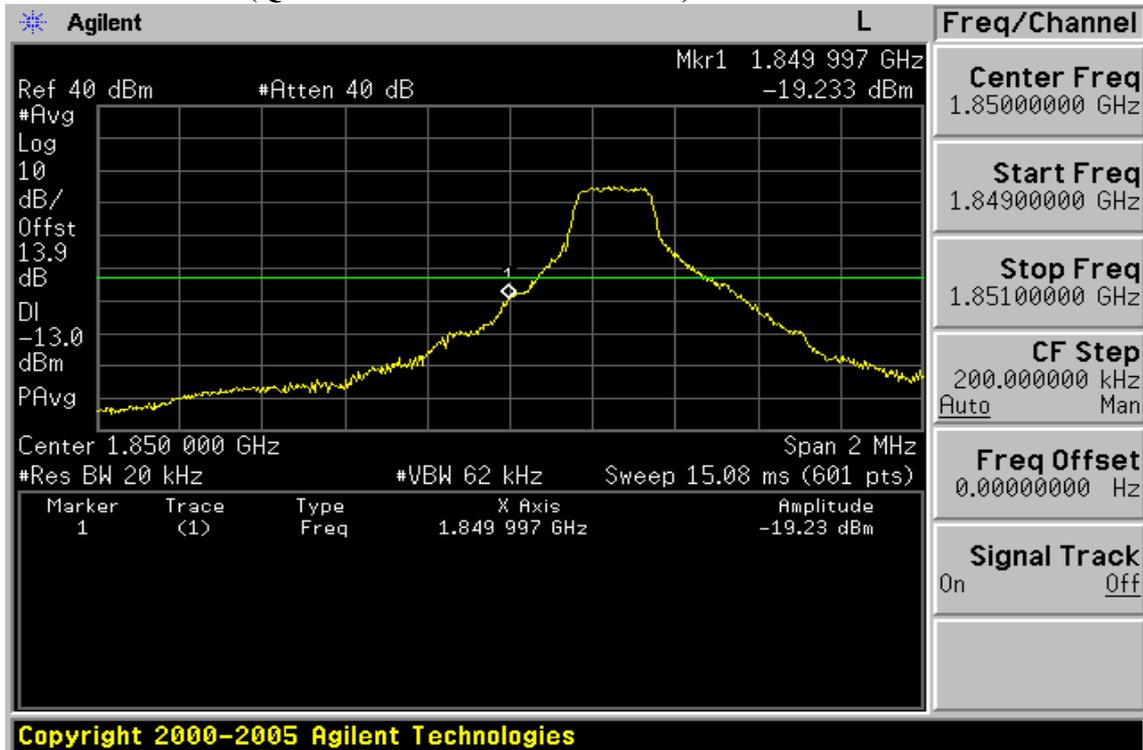
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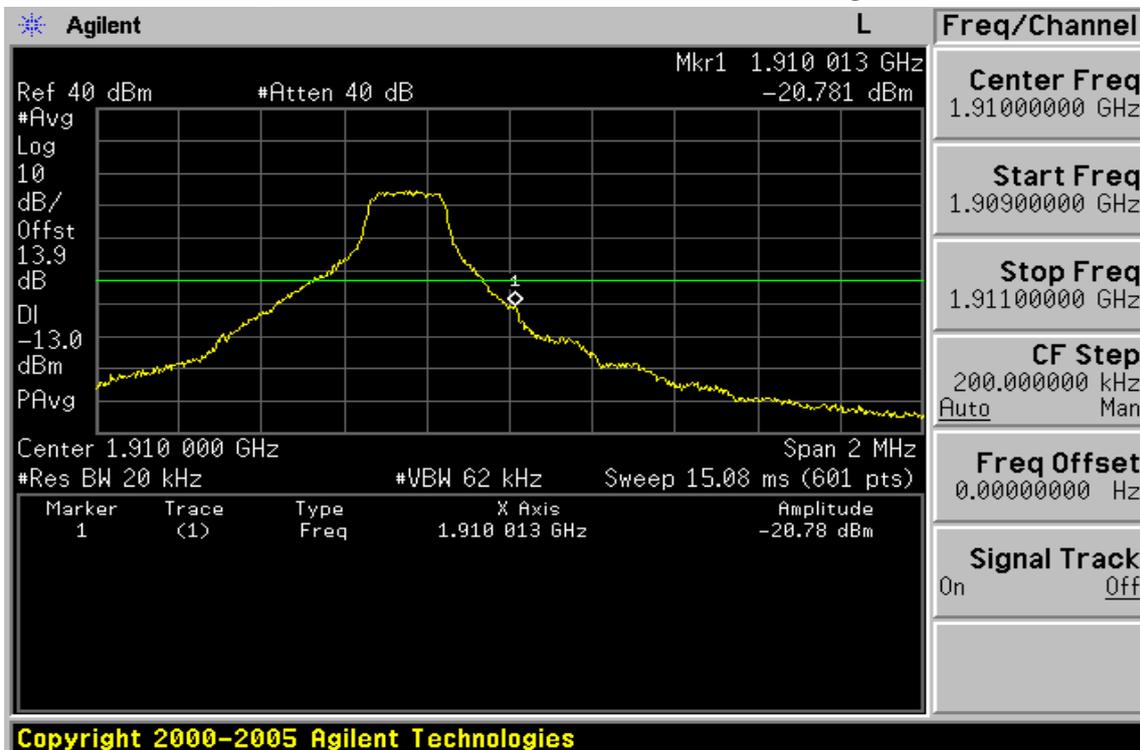
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**Band edge emission at antenna terminals –1.4MHz BW LTE-Band 2  
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



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



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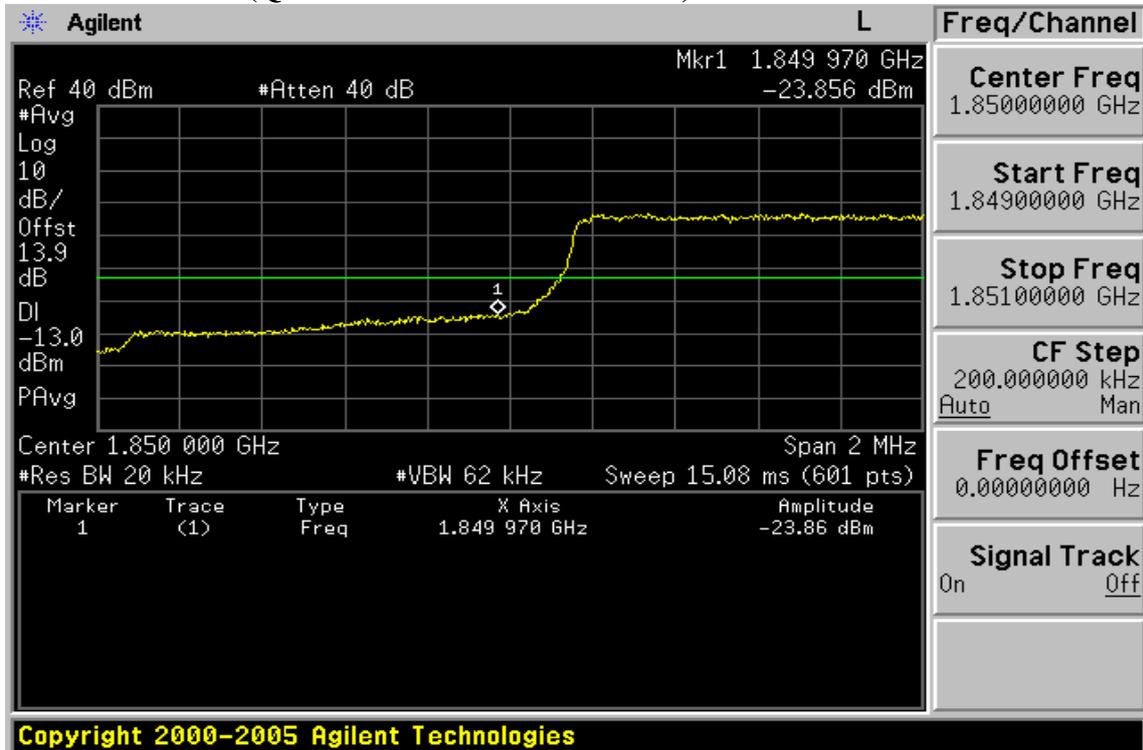
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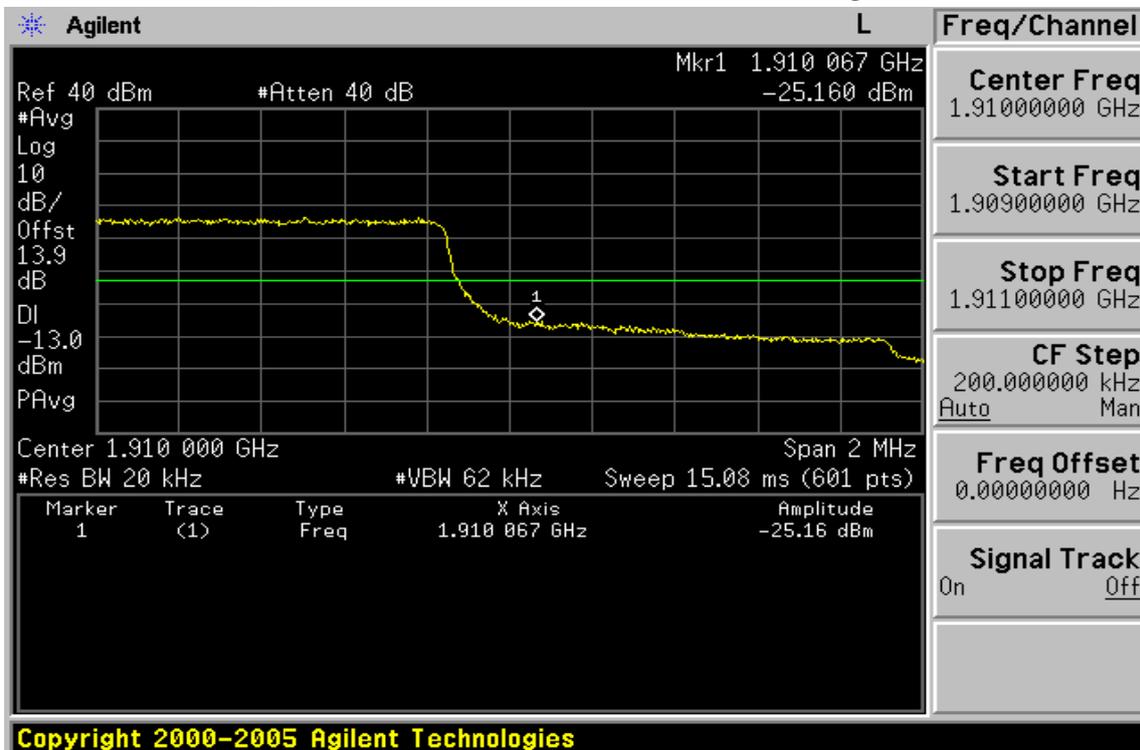
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**Band edge emission at antenna terminals –1.4MHz BW LTE-Band 2  
(QPSK RB Number: 6 Offset: 0) Channel Lowest**



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



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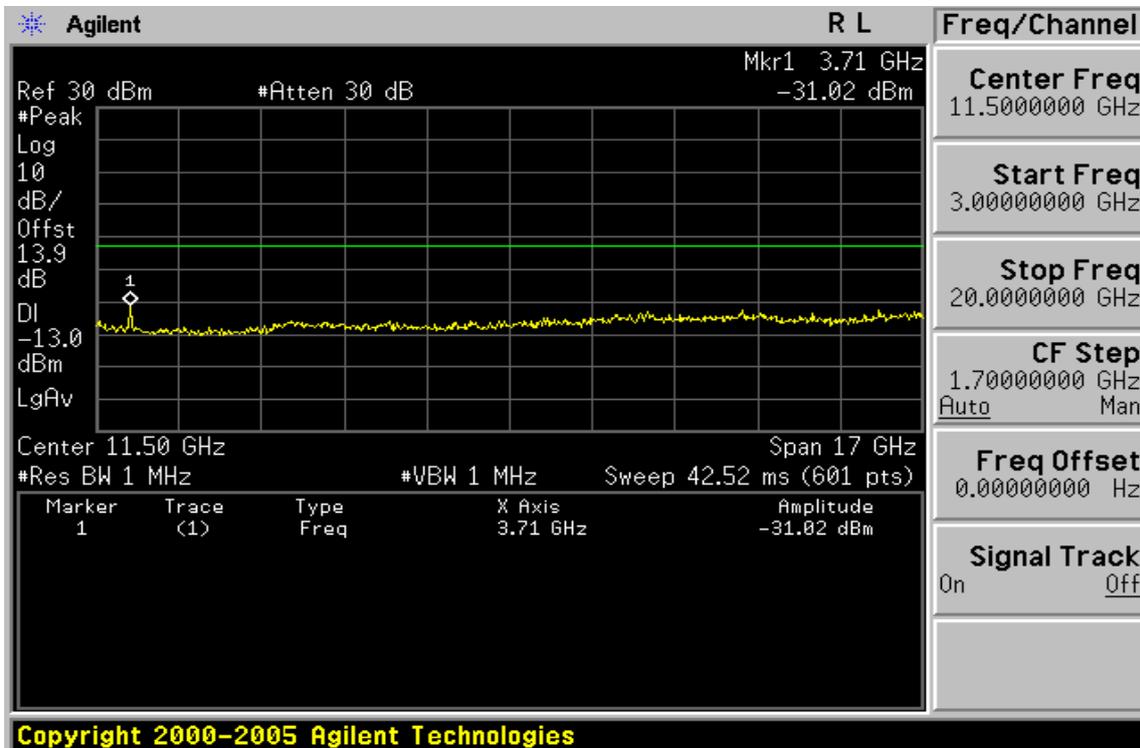
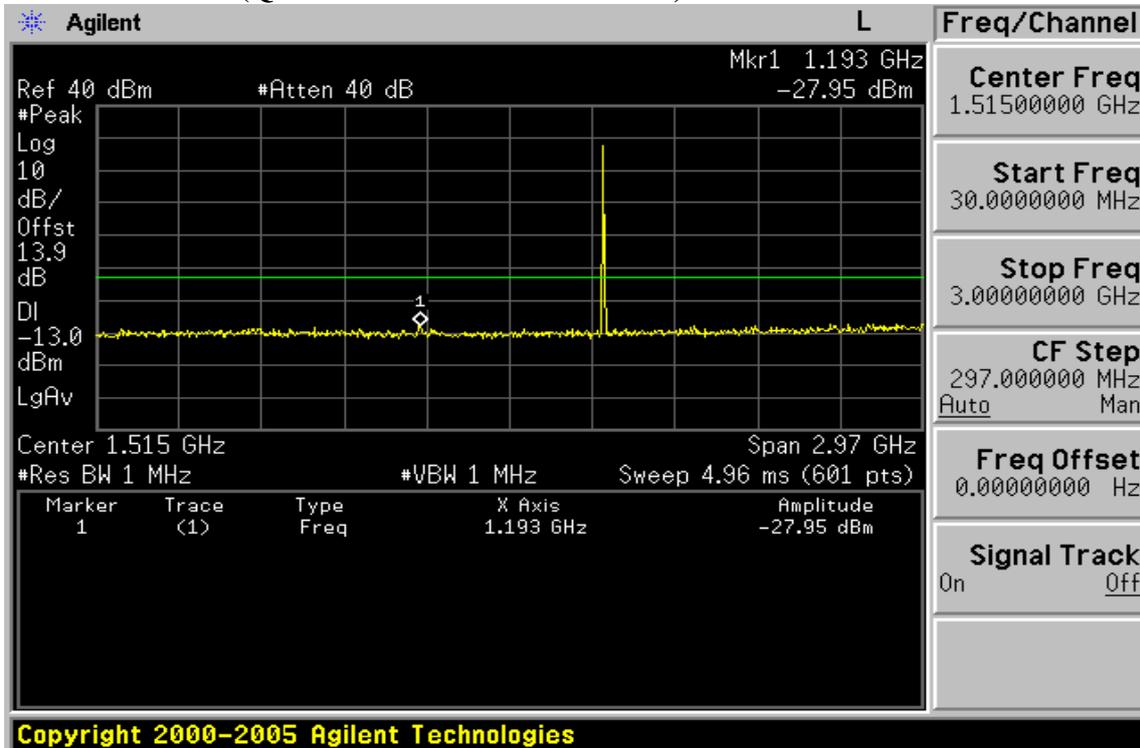
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**Out of Band emission at antenna terminals–3MHz BW LTE-Band 2  
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



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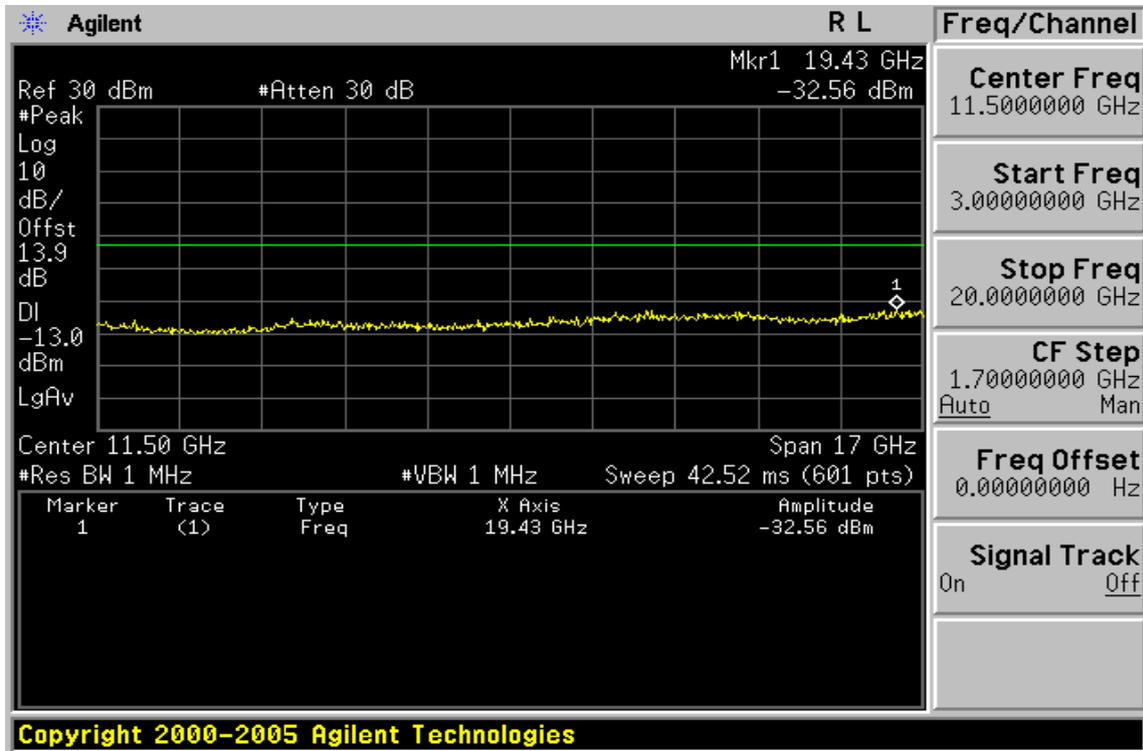
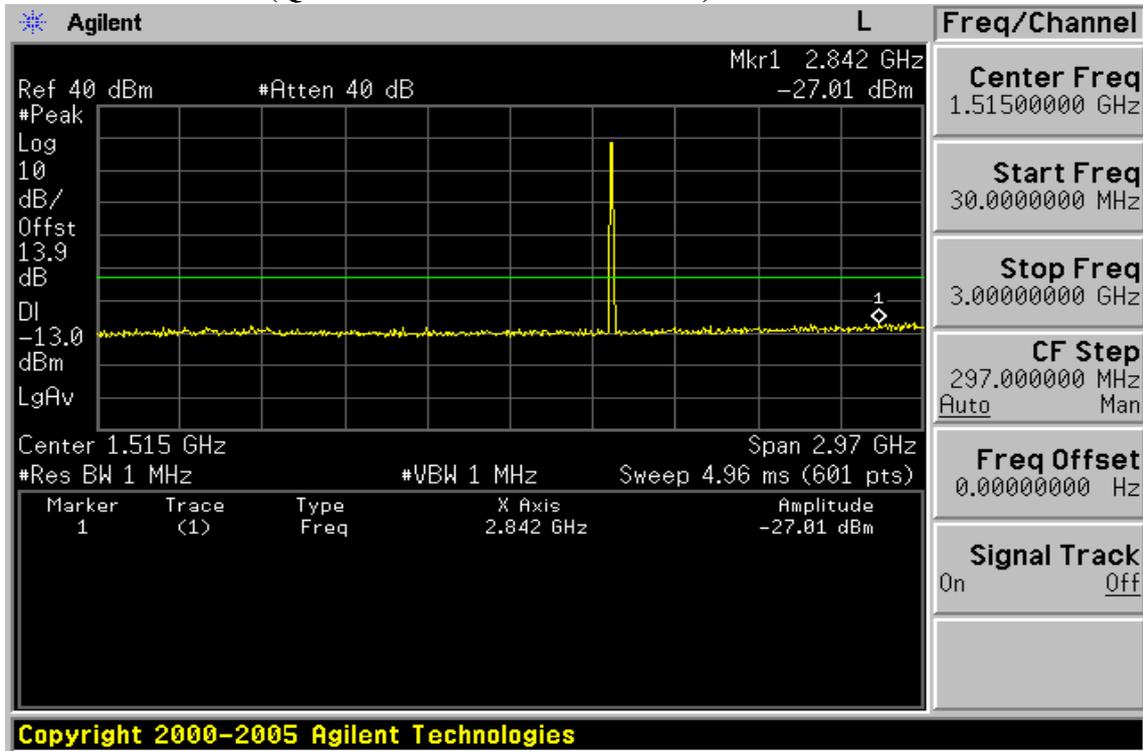
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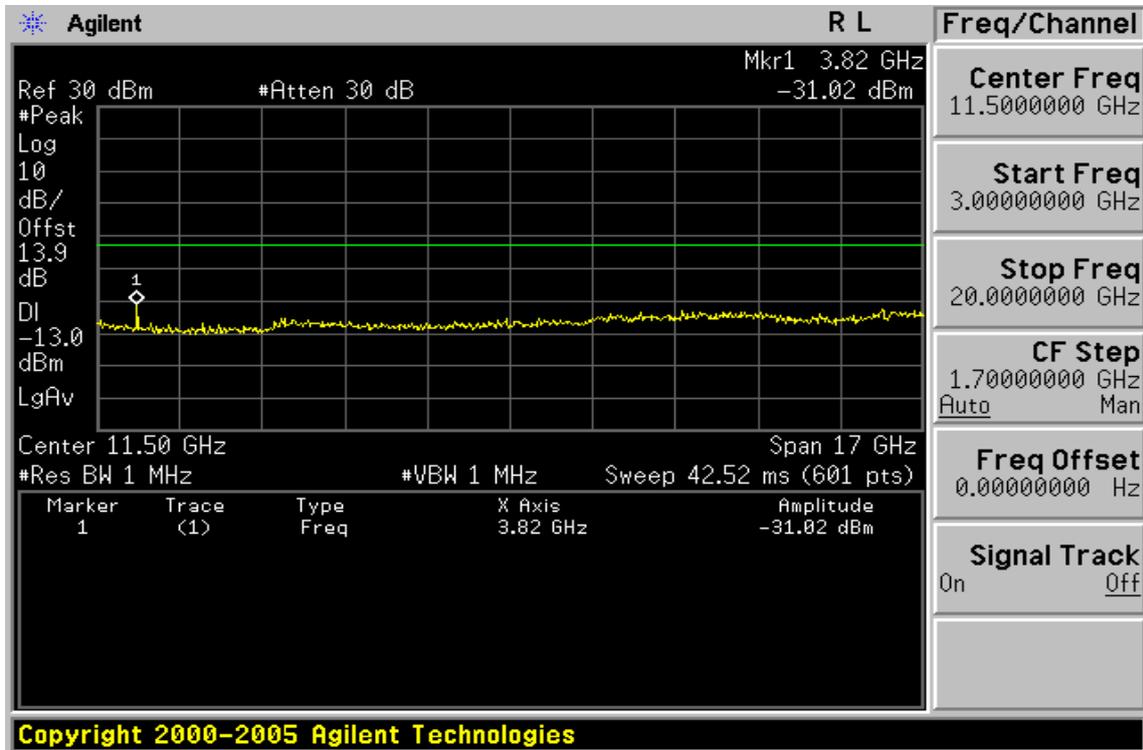
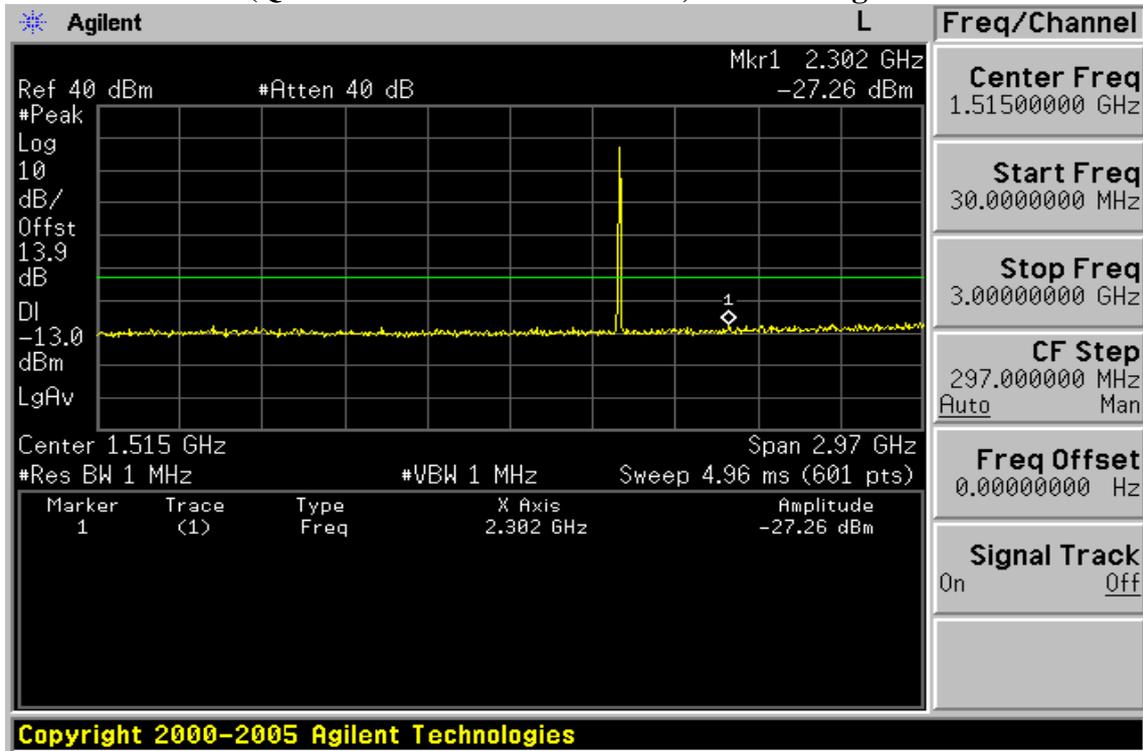
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**Out of Band emission at antenna terminals–3MHz BW LTE-Band 2  
 (QPSK RB Number: 1 Offset: 0)Channel Highest**



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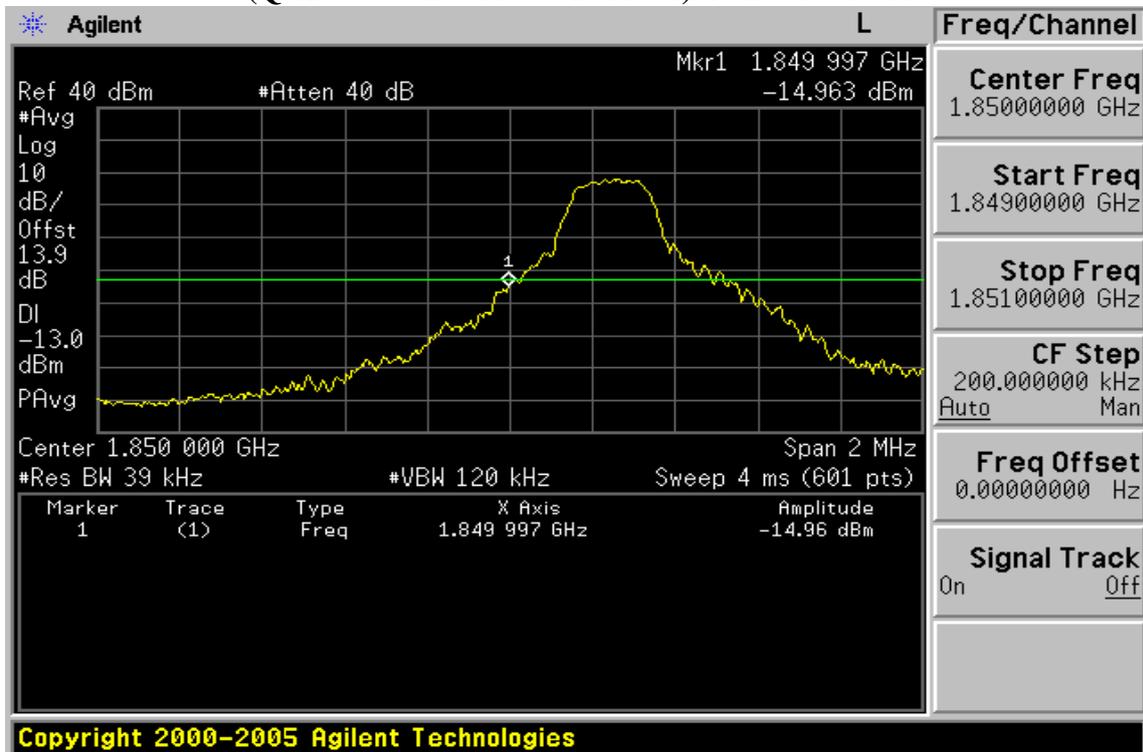
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**Band edge emission at antenna terminals –3MHz BW LTE-Band 2  
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



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



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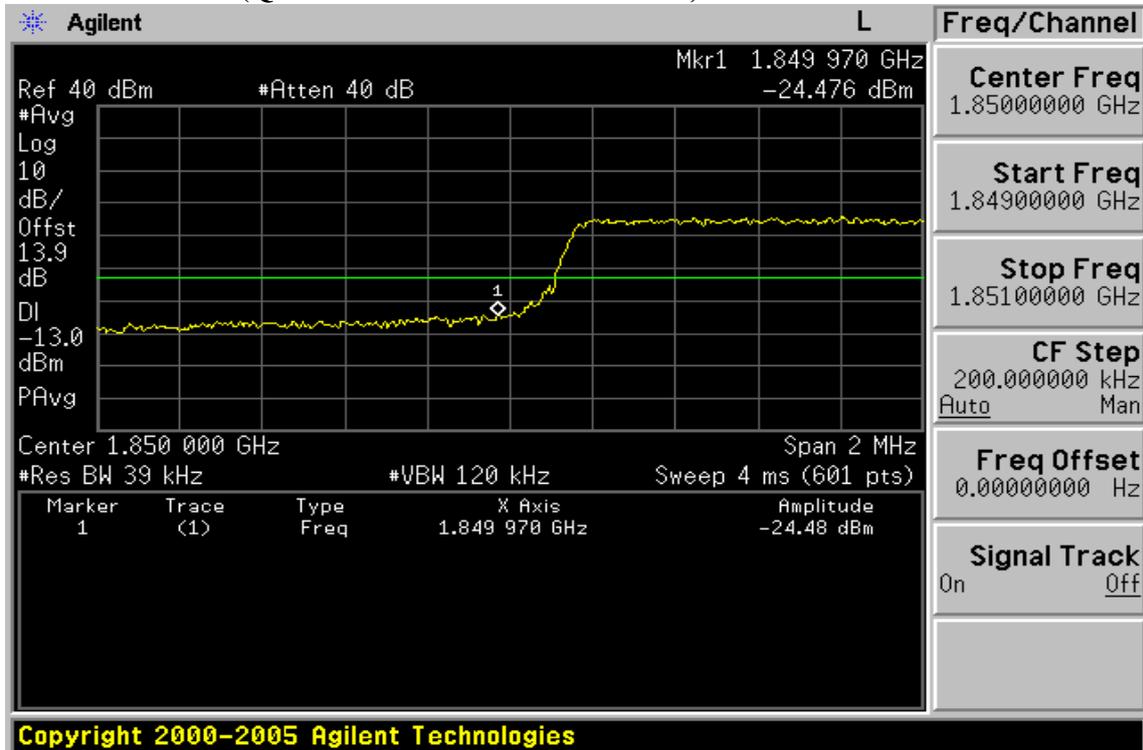
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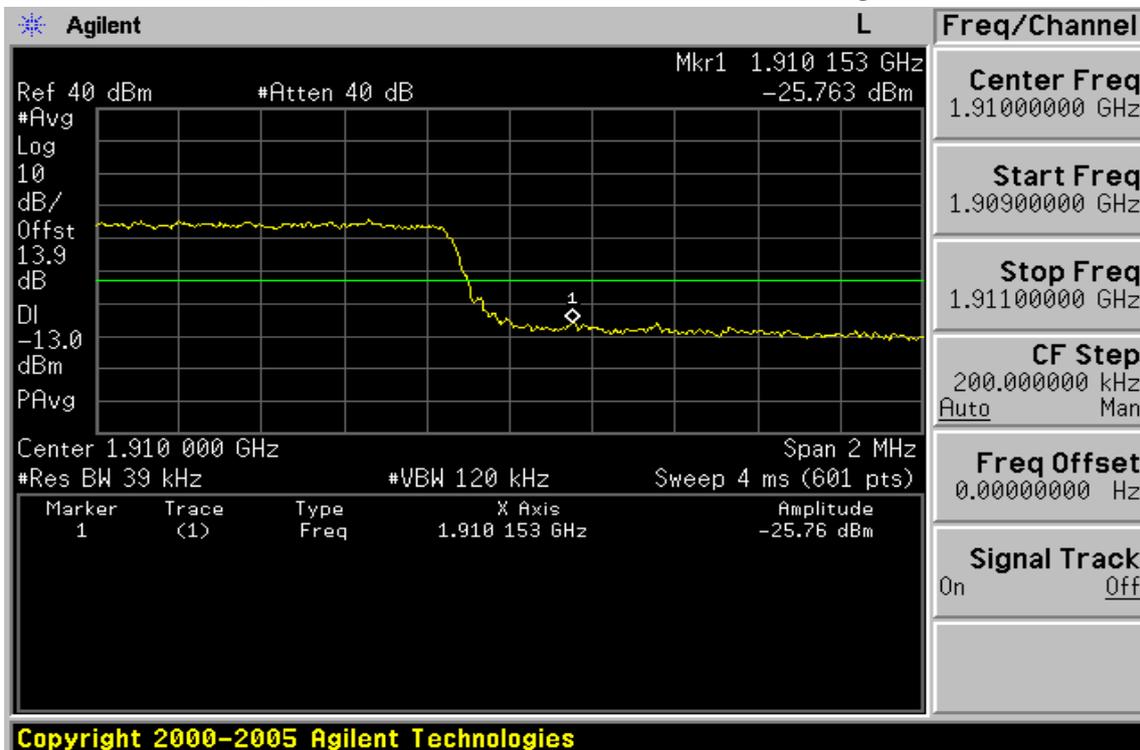
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**Band edge emission at antenna terminals –3MHz BW LTE-Band 2  
(QPSK RB Number: 15 Offset: 0) Channel Lowest**



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



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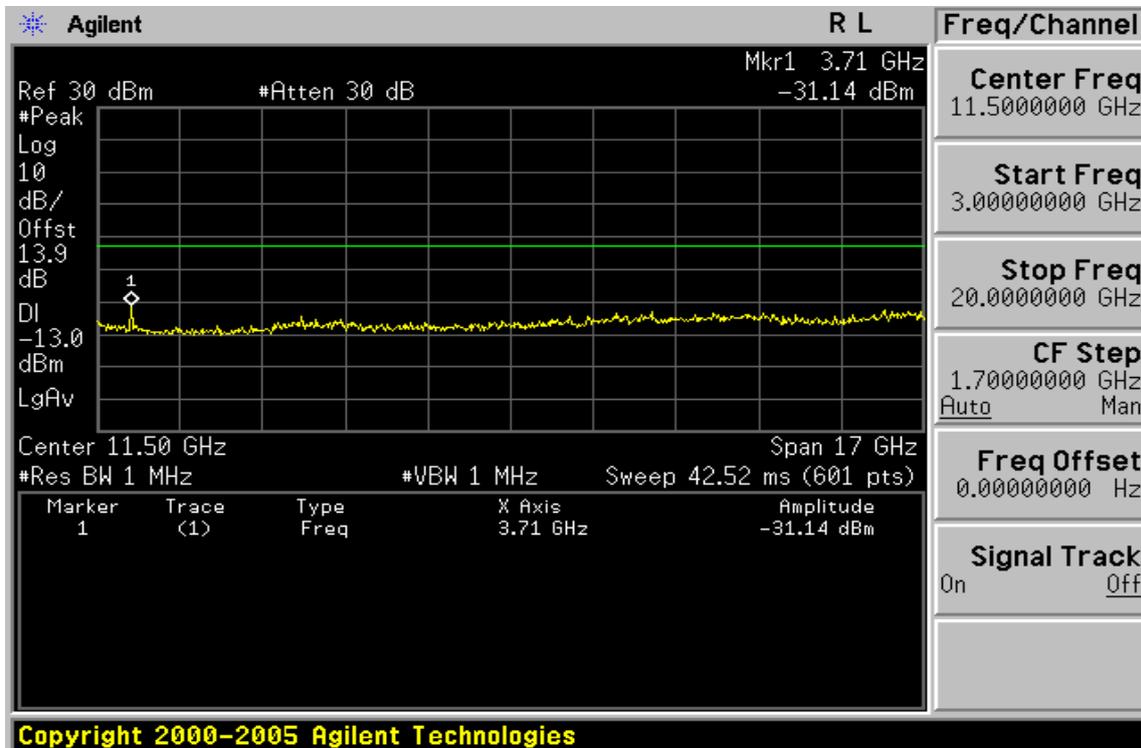
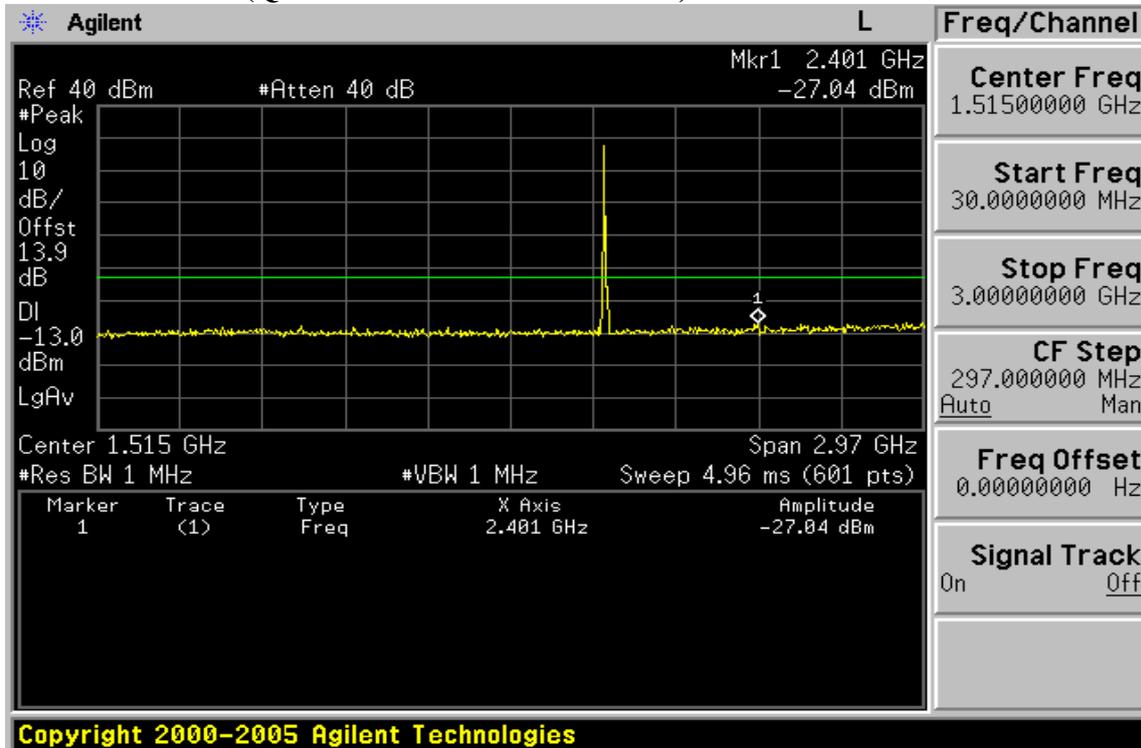
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**Out of Band emission at antenna terminals-5MHz BW LTE-Band 2  
(QPSK RB Number: 1 Offset: 0)Channel Lowest**



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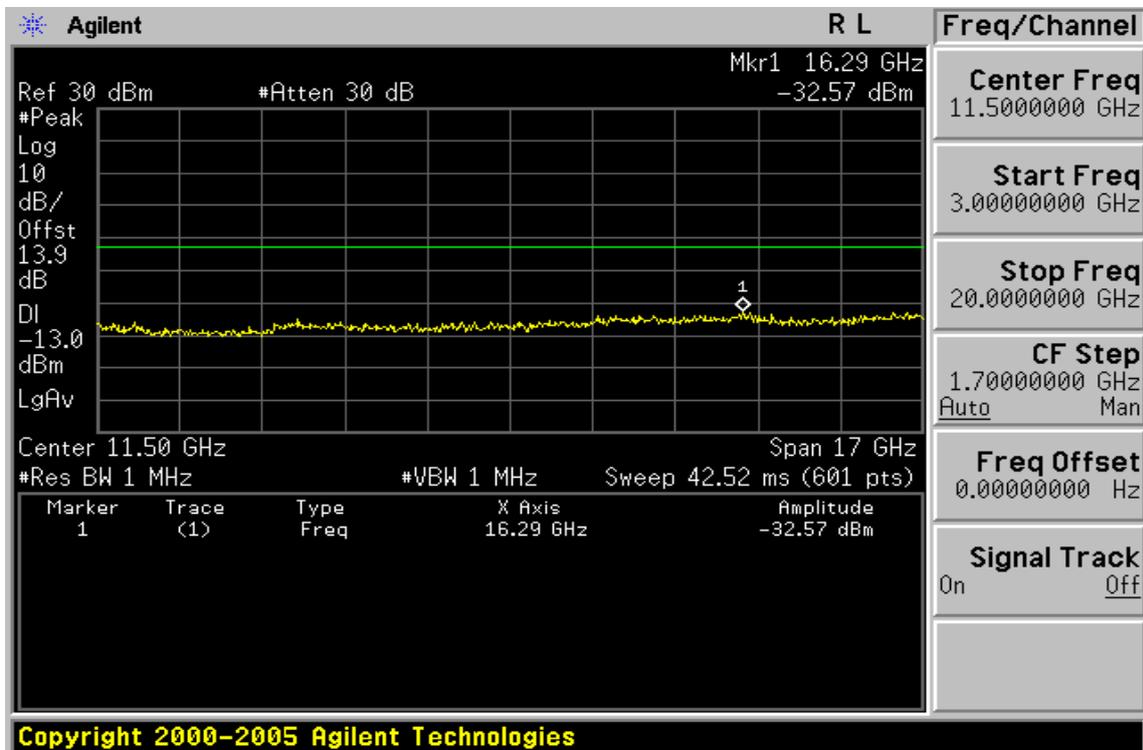
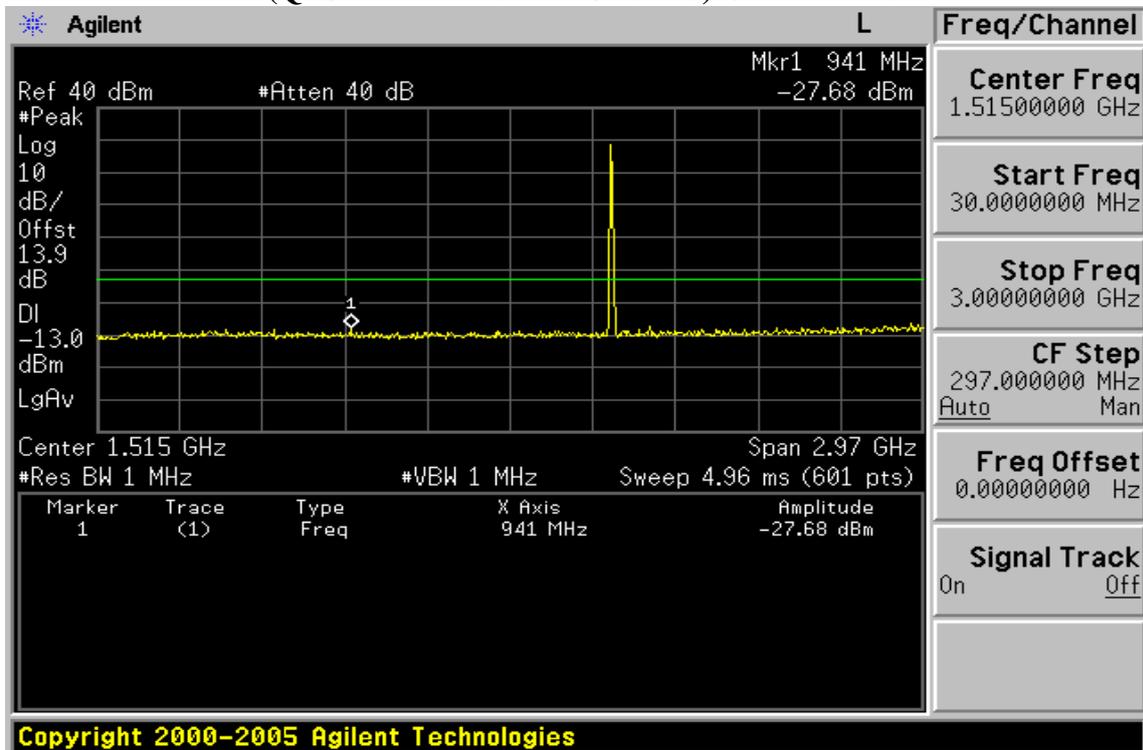
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**Out of Band emission at antenna terminals –5MHz BW LTE-Band 2  
(QPSK RB Number: 1 Offset: 0) Channel Mid**

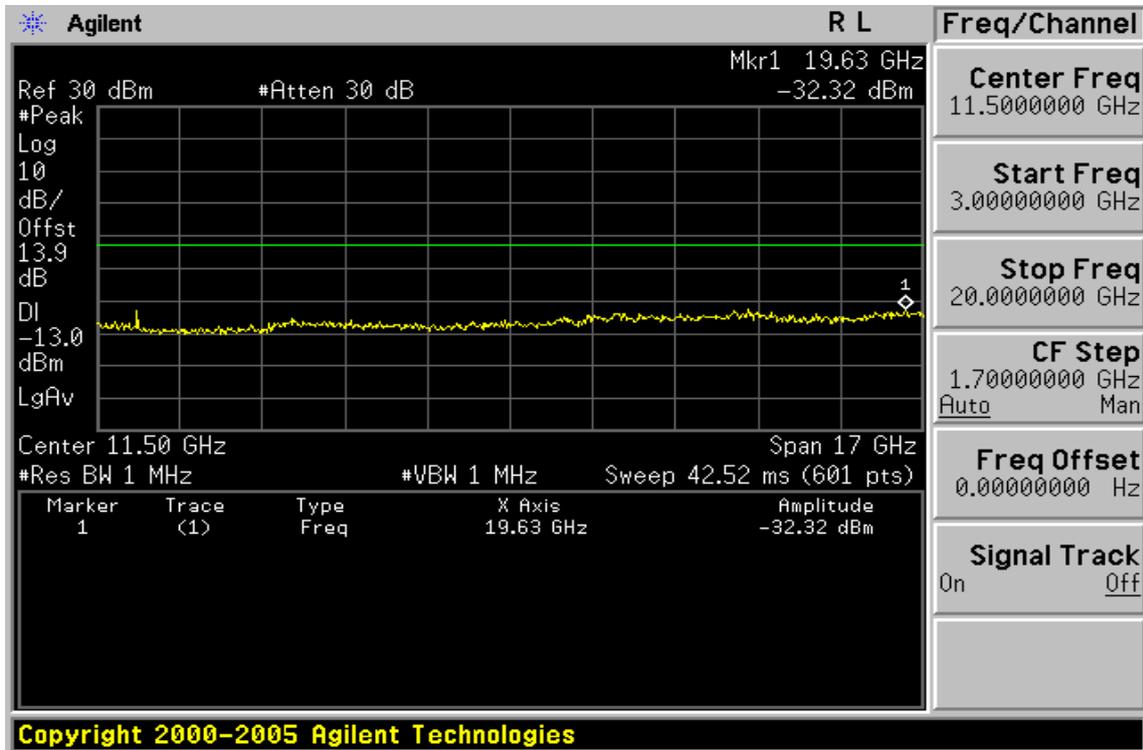
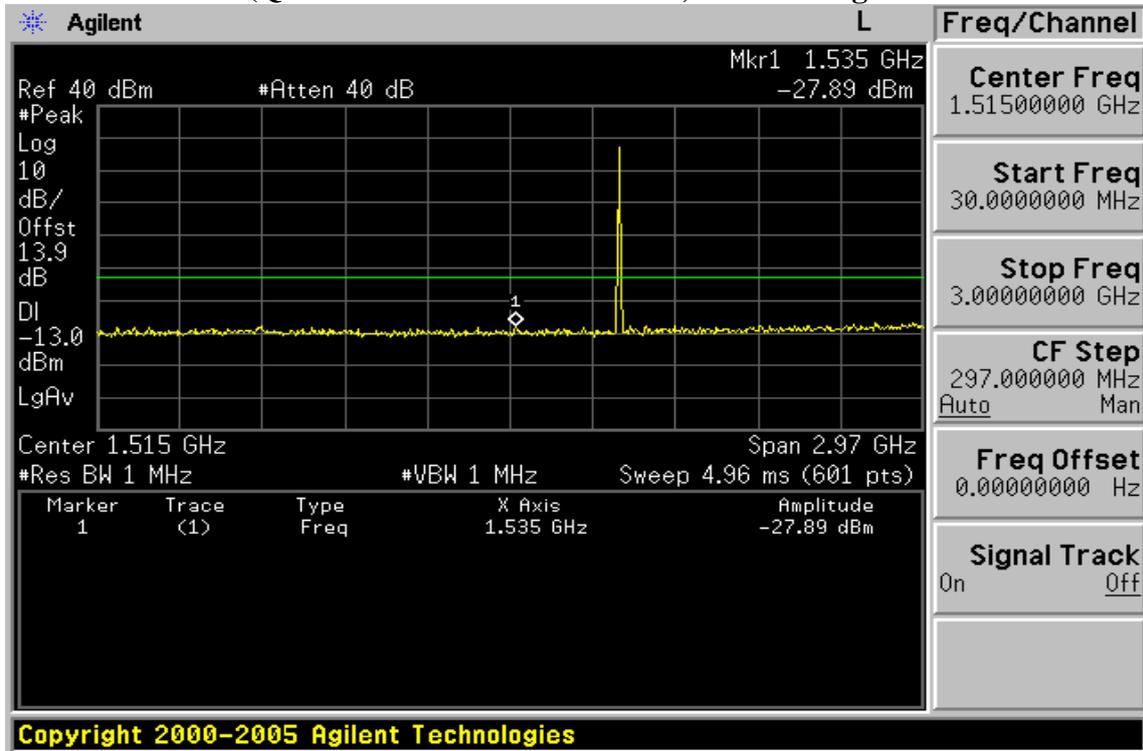


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**Out of Band emission at antenna terminals-5MHz BW LTE-Band 2  
(QPSK RB Number: 1 Offset: 0)Channel Highest**



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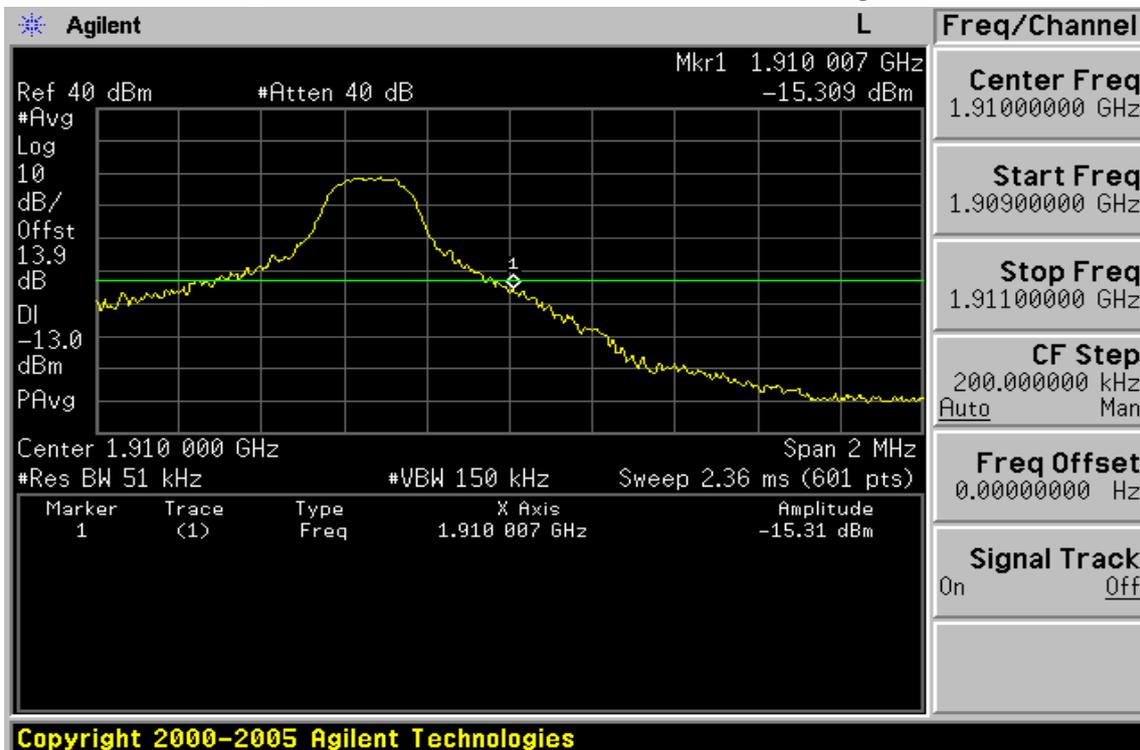
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**Band edge emission at antenna terminals –5MHz BW LTE-Band 2  
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



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



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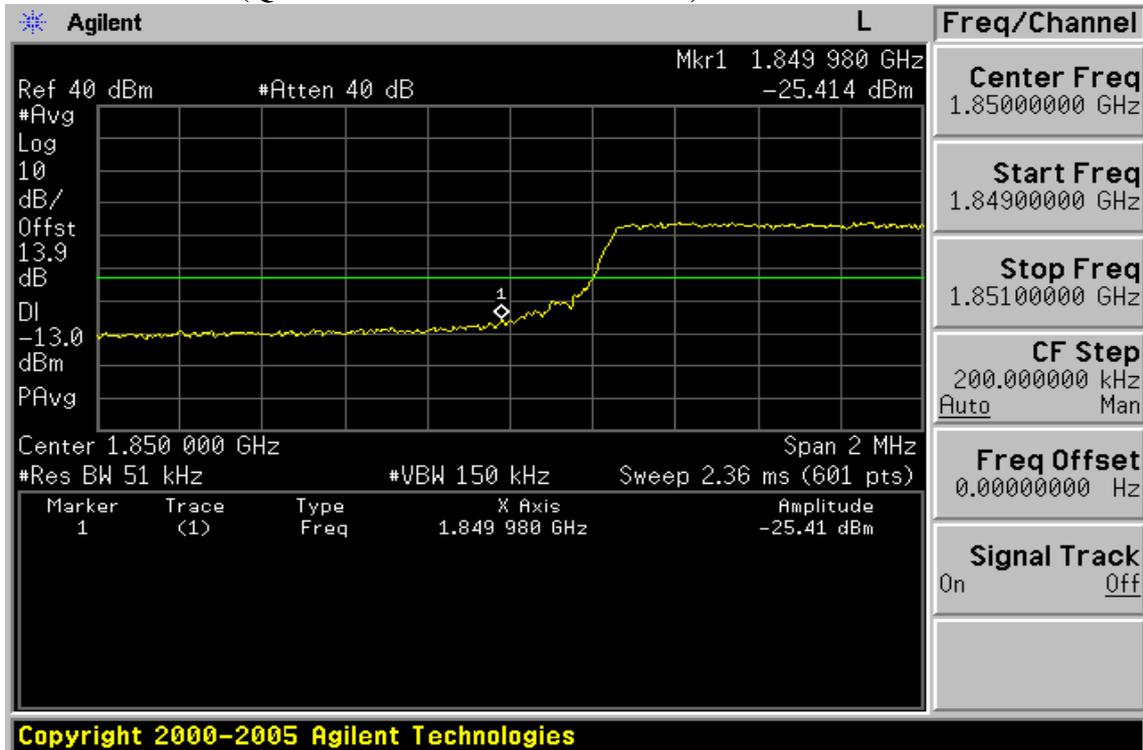
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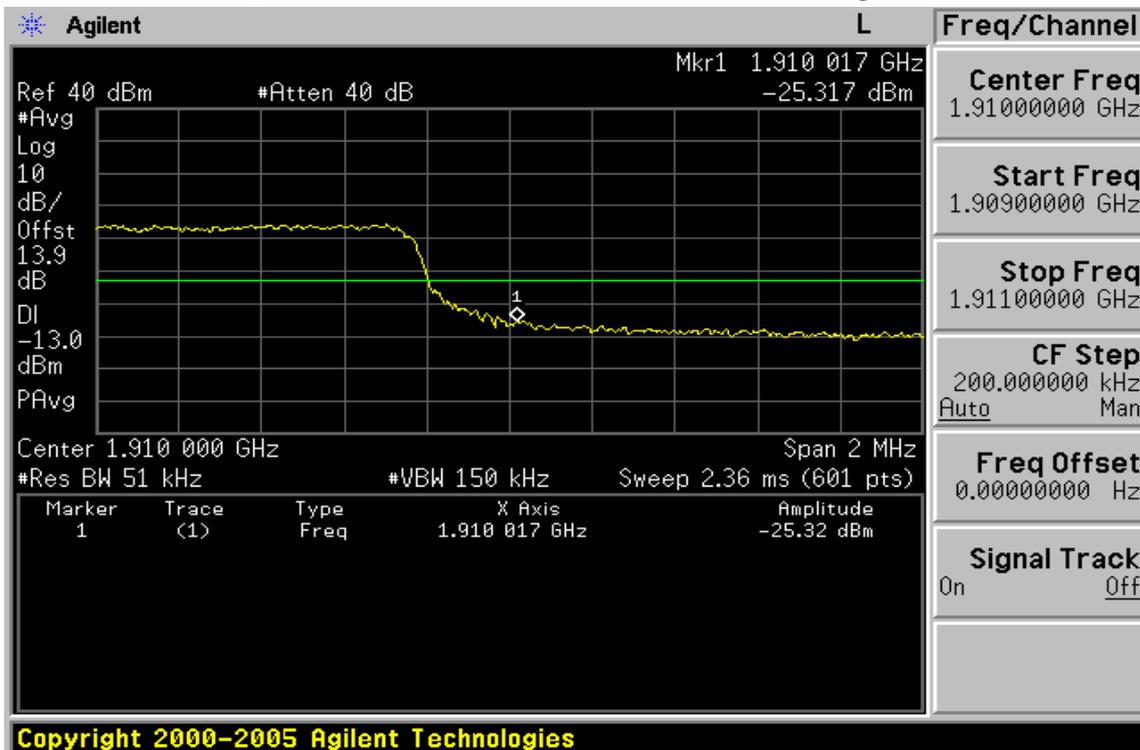
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**Band edge emission at antenna terminals –5MHz BW LTE-Band 2  
(QPSK RB Number: 25 Offset: 0) Channel Lowest**



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



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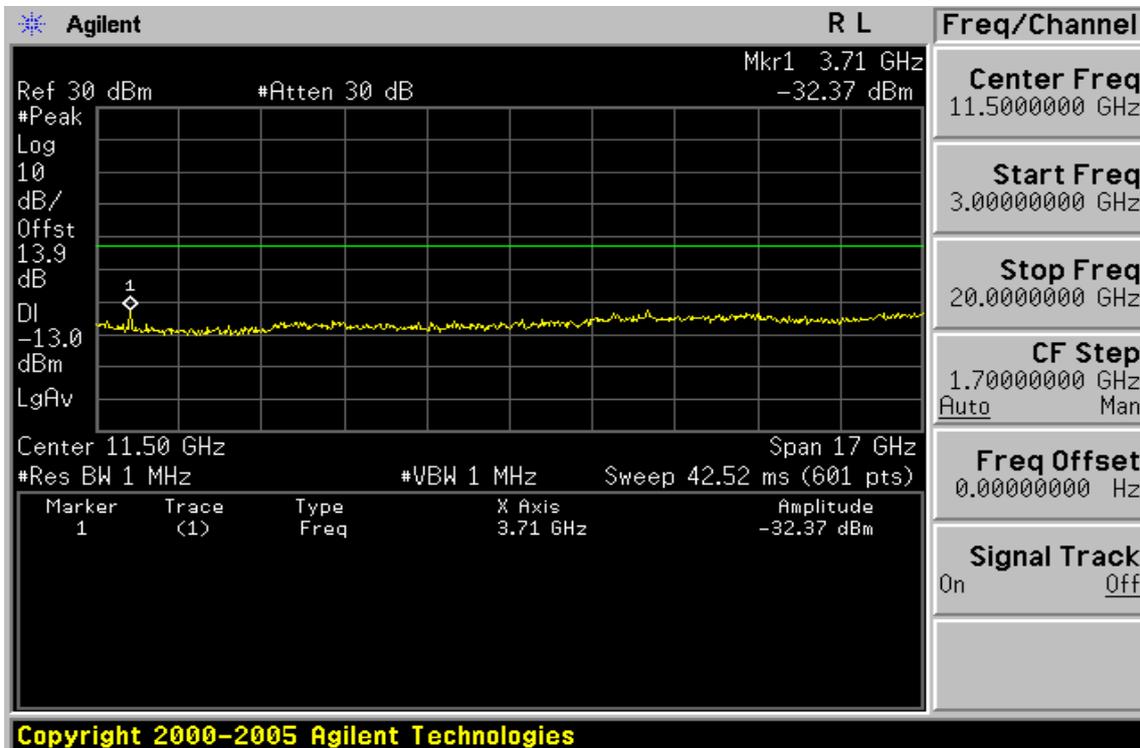
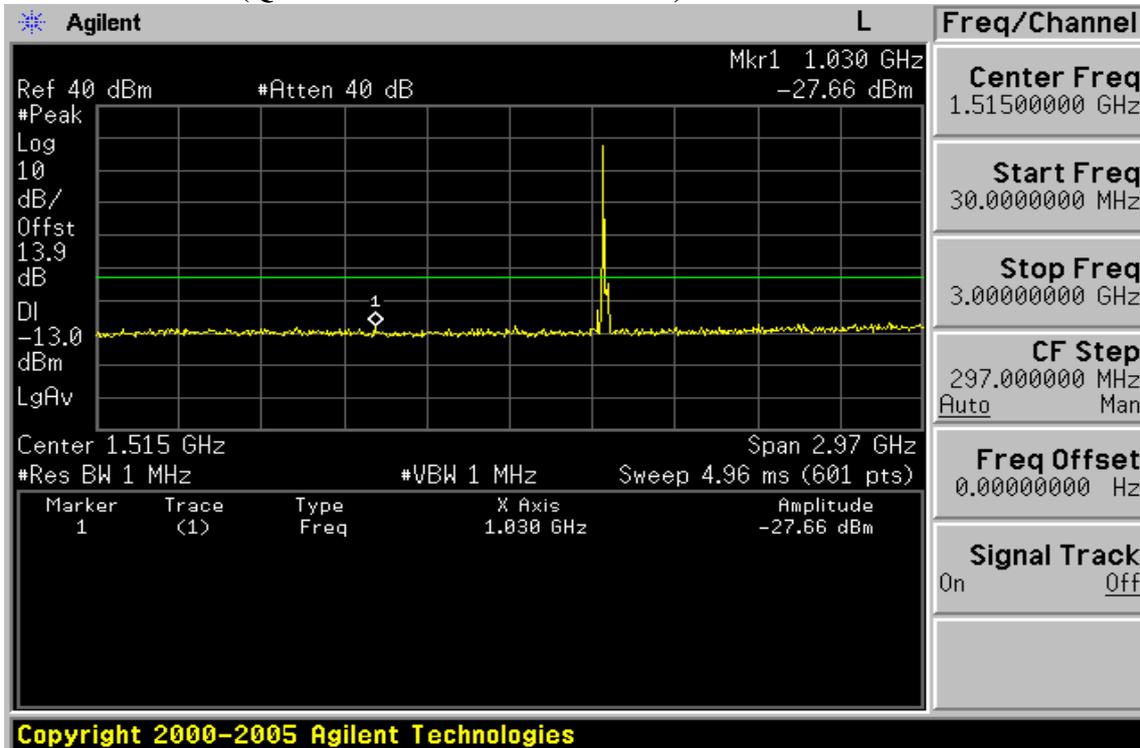
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**Out of Band emission at antenna terminals–10MHz BW LTE-Band 2  
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



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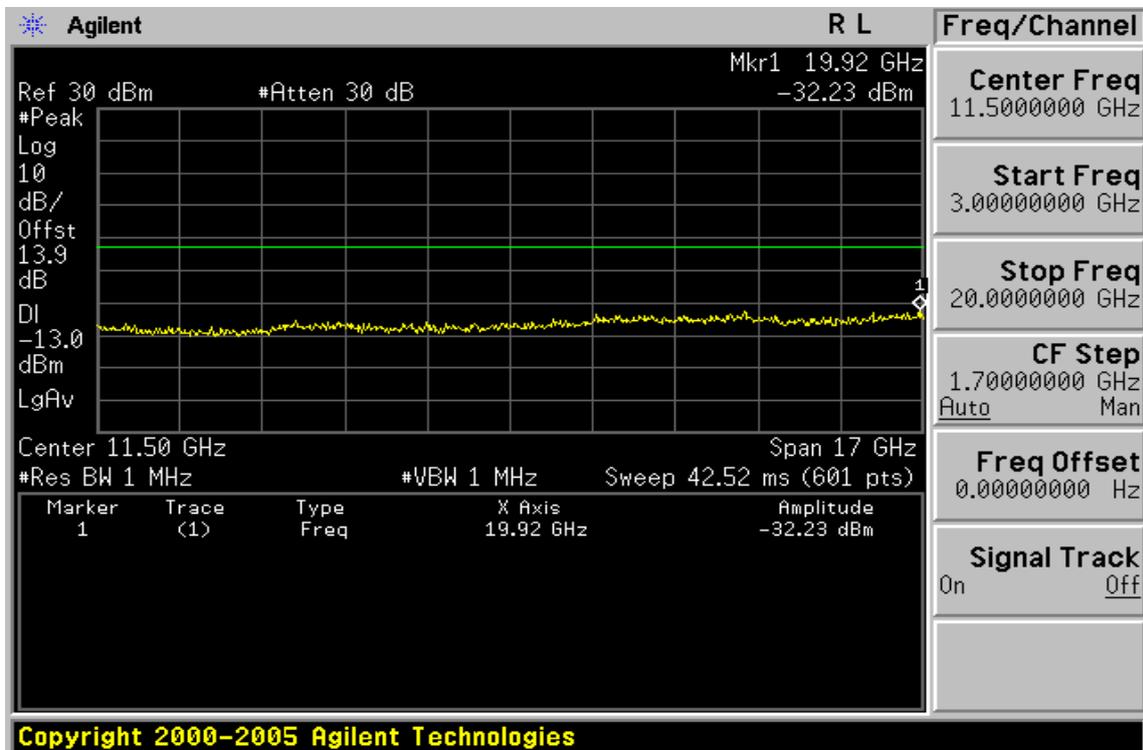
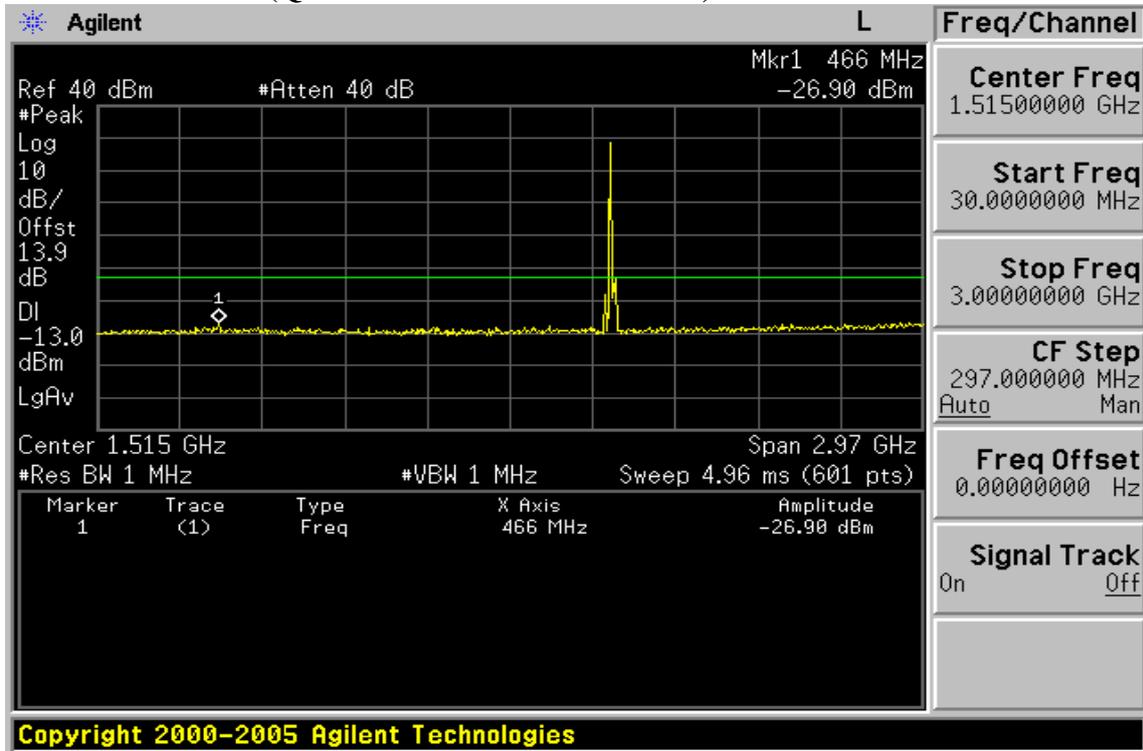
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**Out of Band emission at antenna terminals –10MHz BW LTE-Band 2  
 (QPSK RB Number: 1 Offset: 0) Channel Mid**



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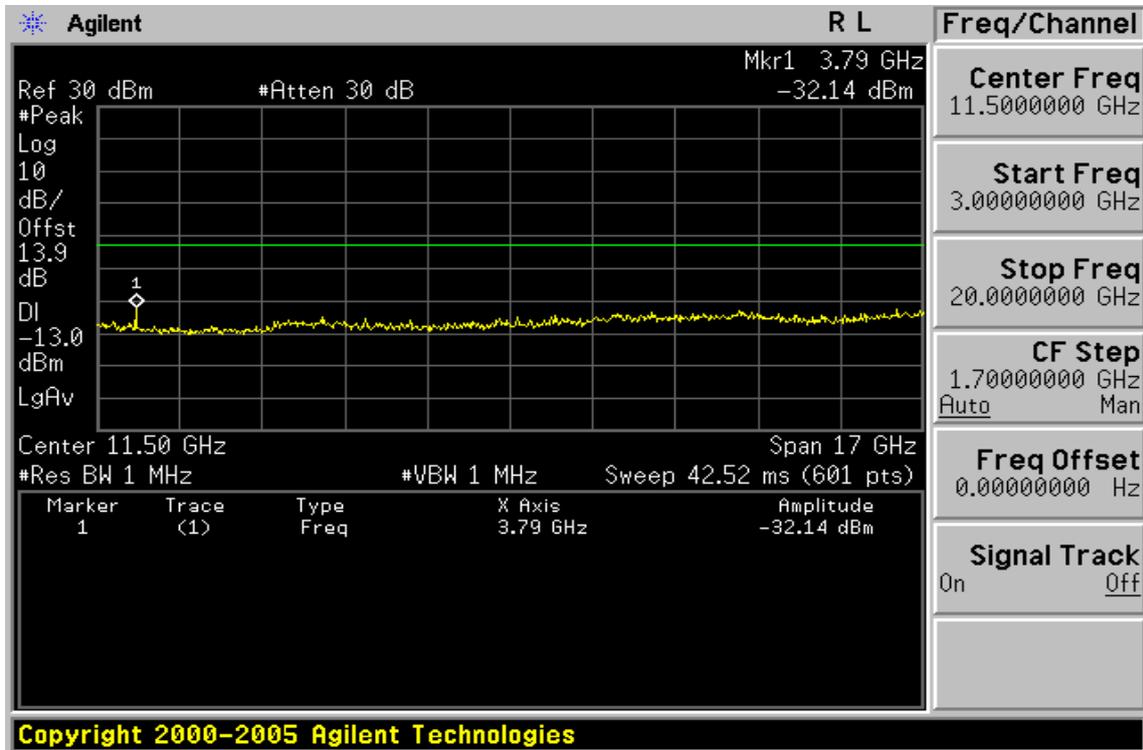
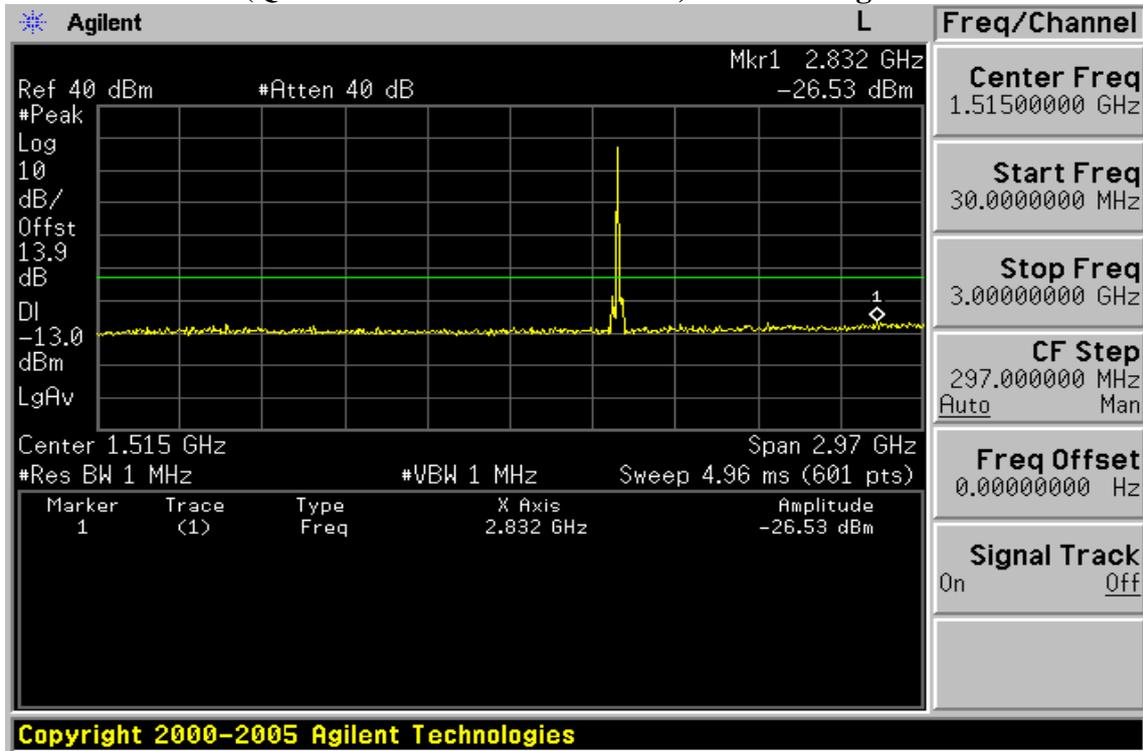
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**Out of Band emission at antenna terminals–10MHz BW LTE-Band 2  
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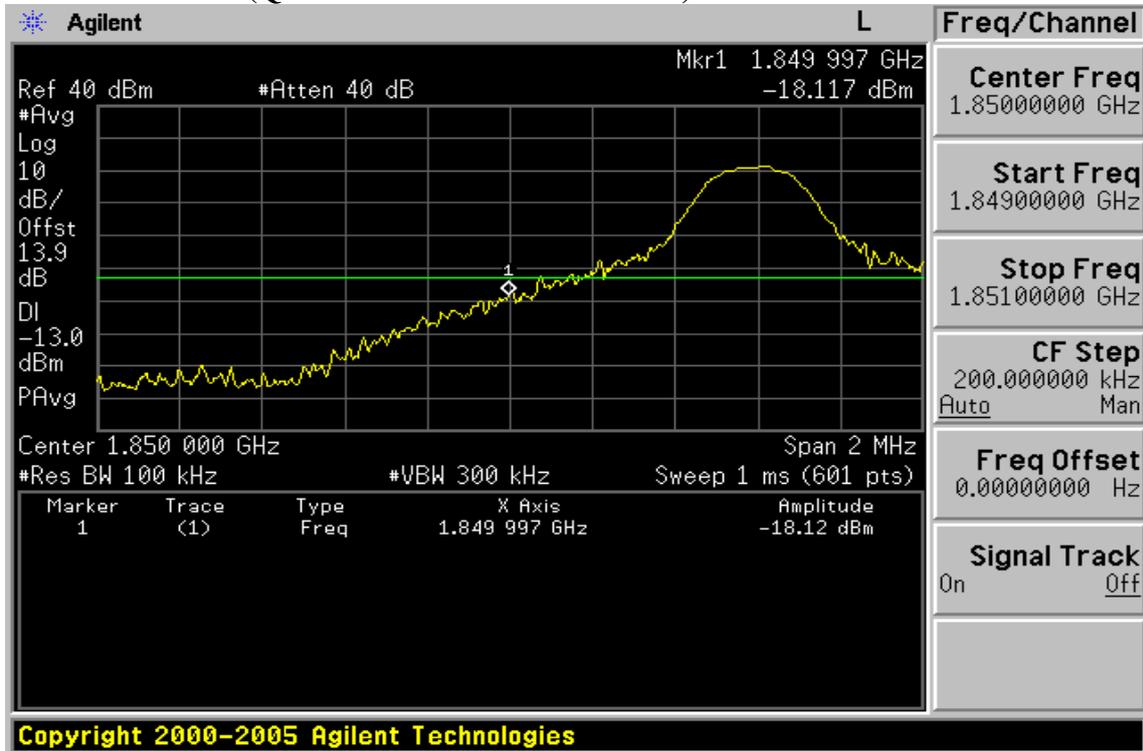
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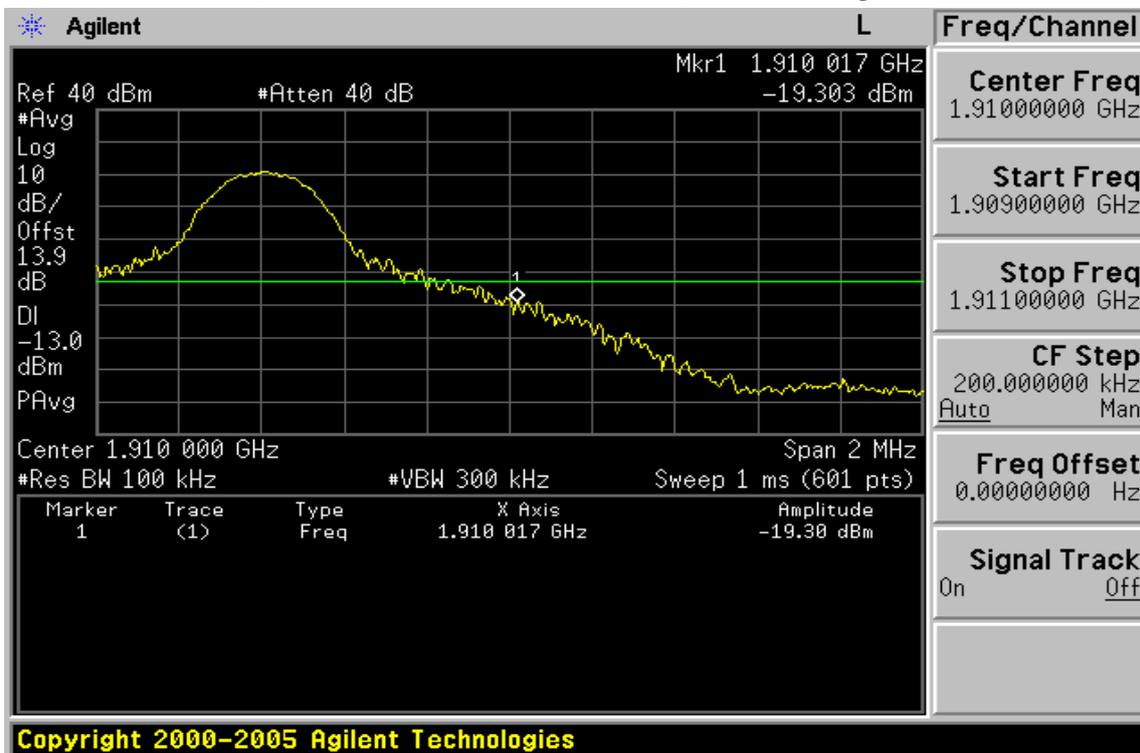
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**Band edge emission at antenna terminals –10MHz BW LTE-Band 2  
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



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

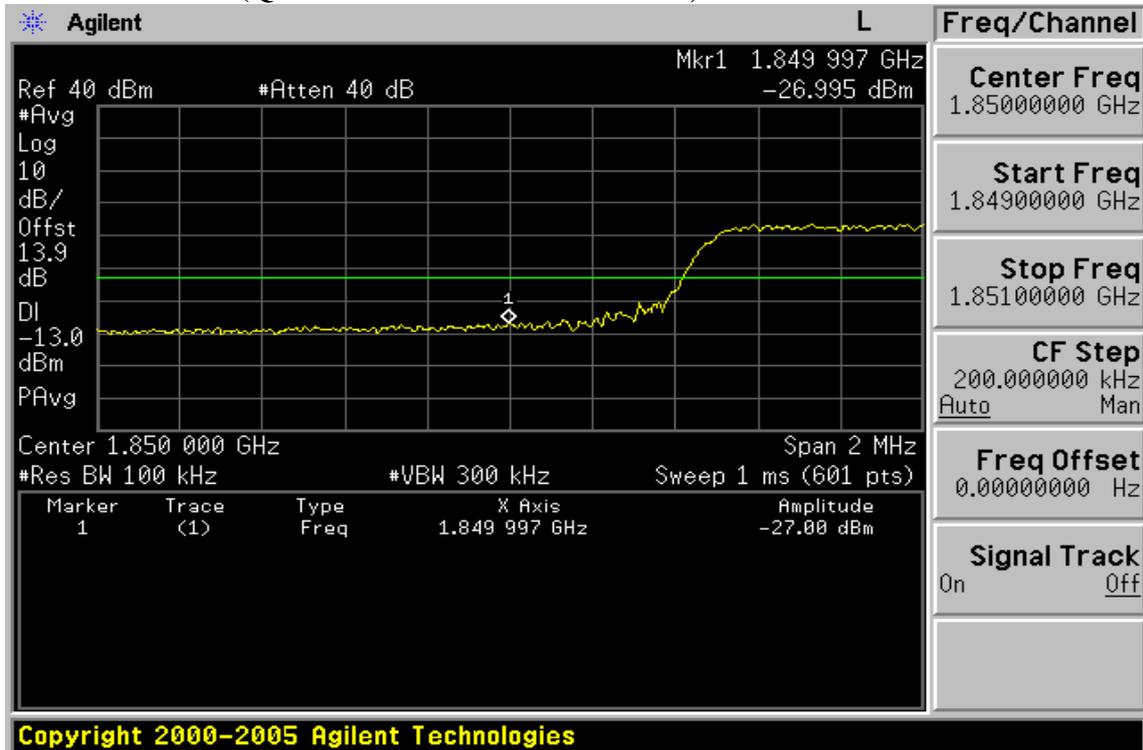


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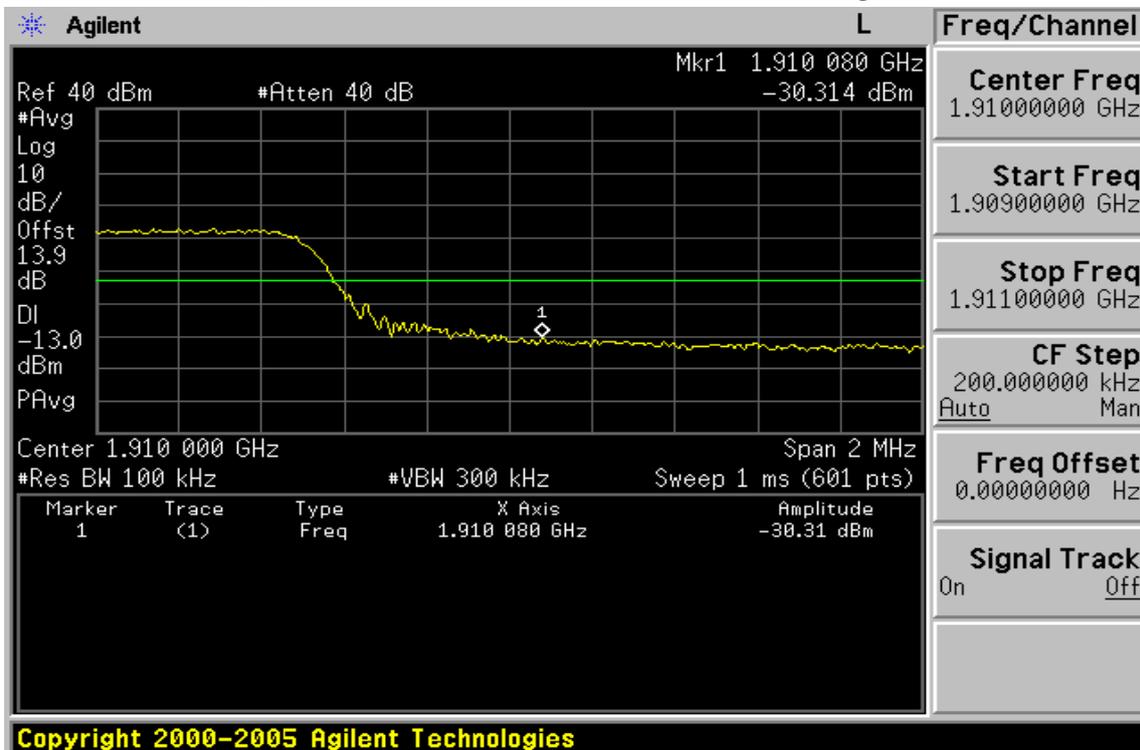
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**Band edge emission at antenna terminals –10MHz BW LTE-Band 2  
(QPSK RB Number: 50 Offset: 0) Channel Lowest**



**Figure 9-88: Band edge emission at antenna terminals –10MHz BW LTE-Band 2  
(QPSK RB Number: 50 Offset: 0) Channel Highest**



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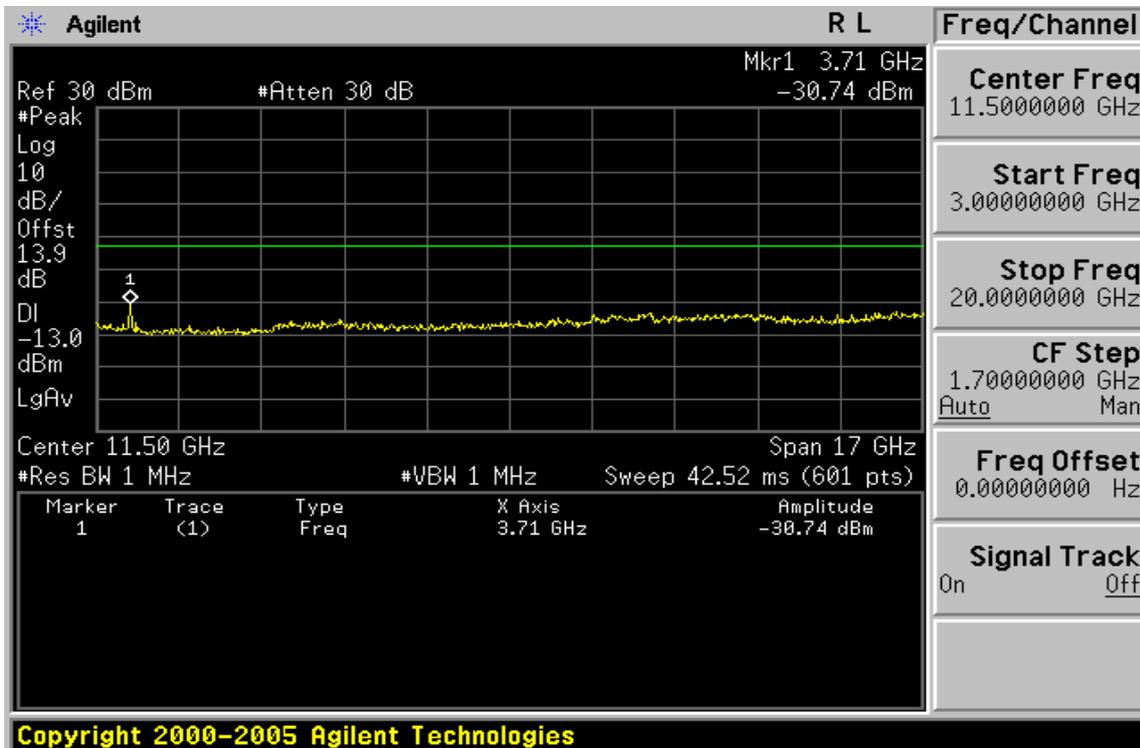
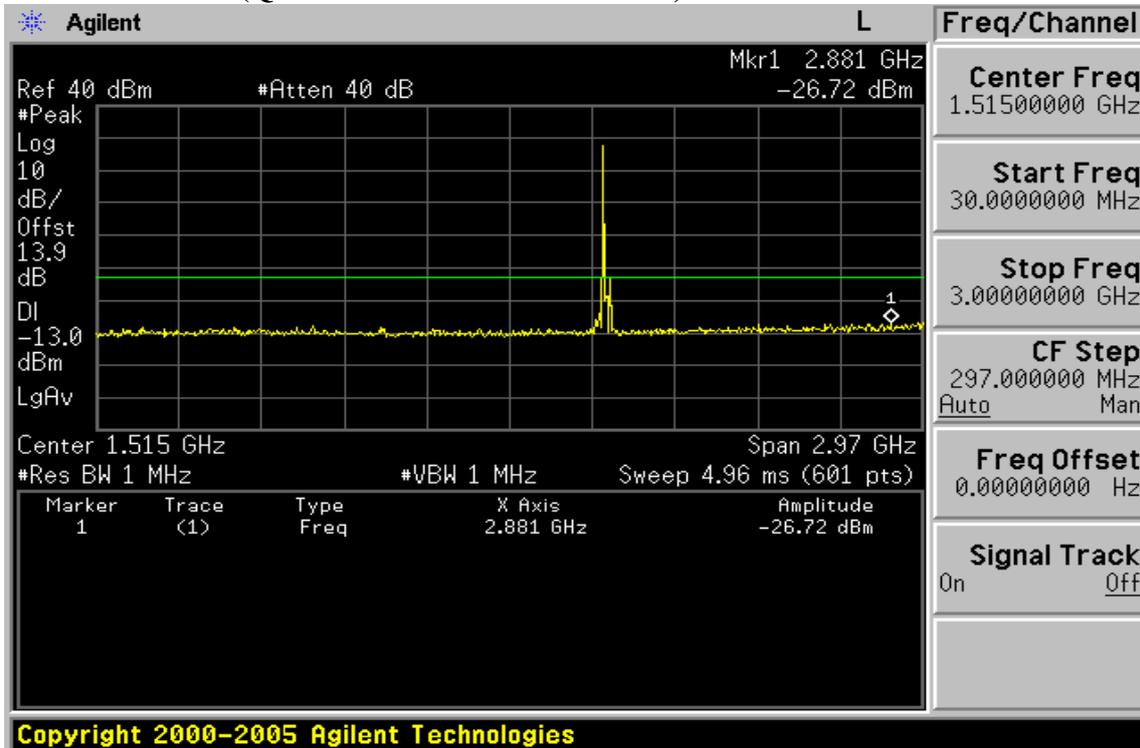
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**Out of Band emission at antenna terminals–15MHz BW LTE-Band 2  
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



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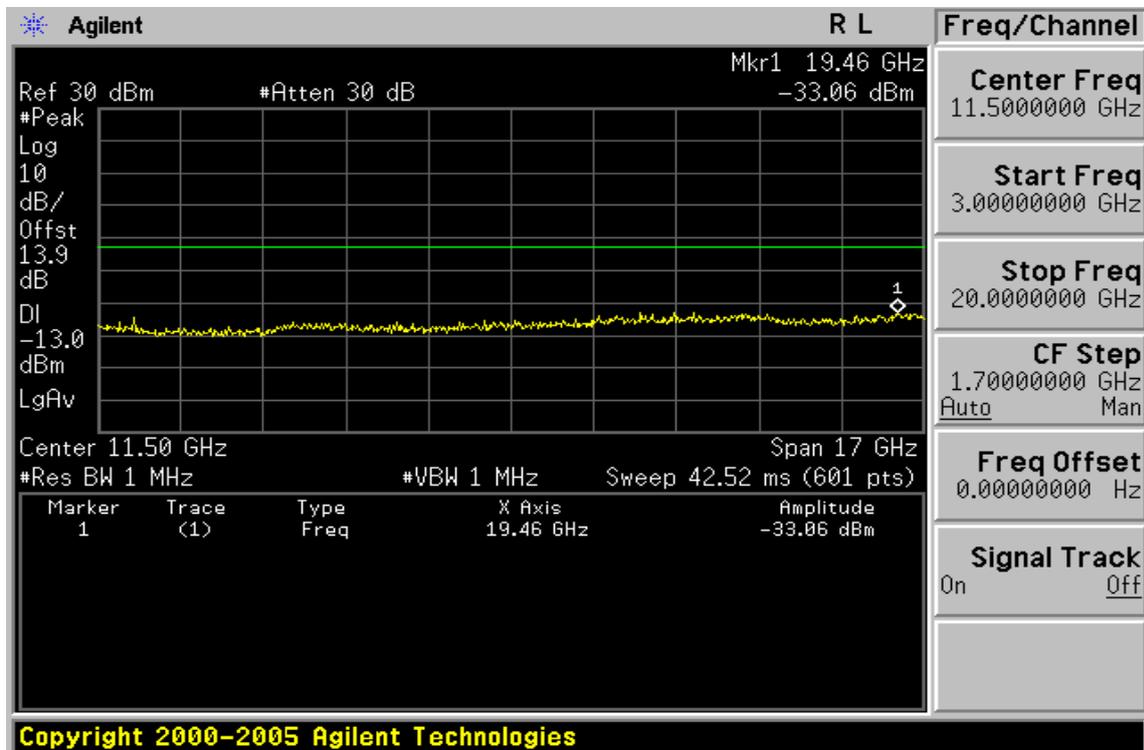
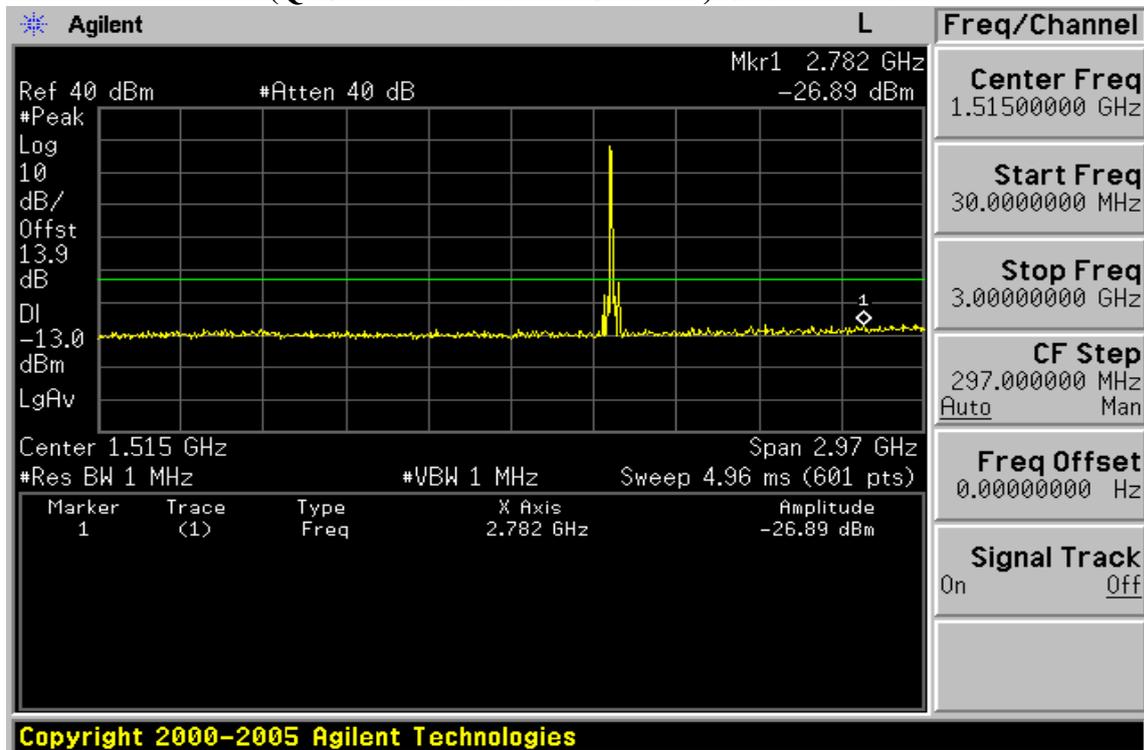
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**Out of Band emission at antenna terminals –15MHz BW LTE-Band 2  
(QPSK RB Number: 1 Offset: 0) Channel Mid**

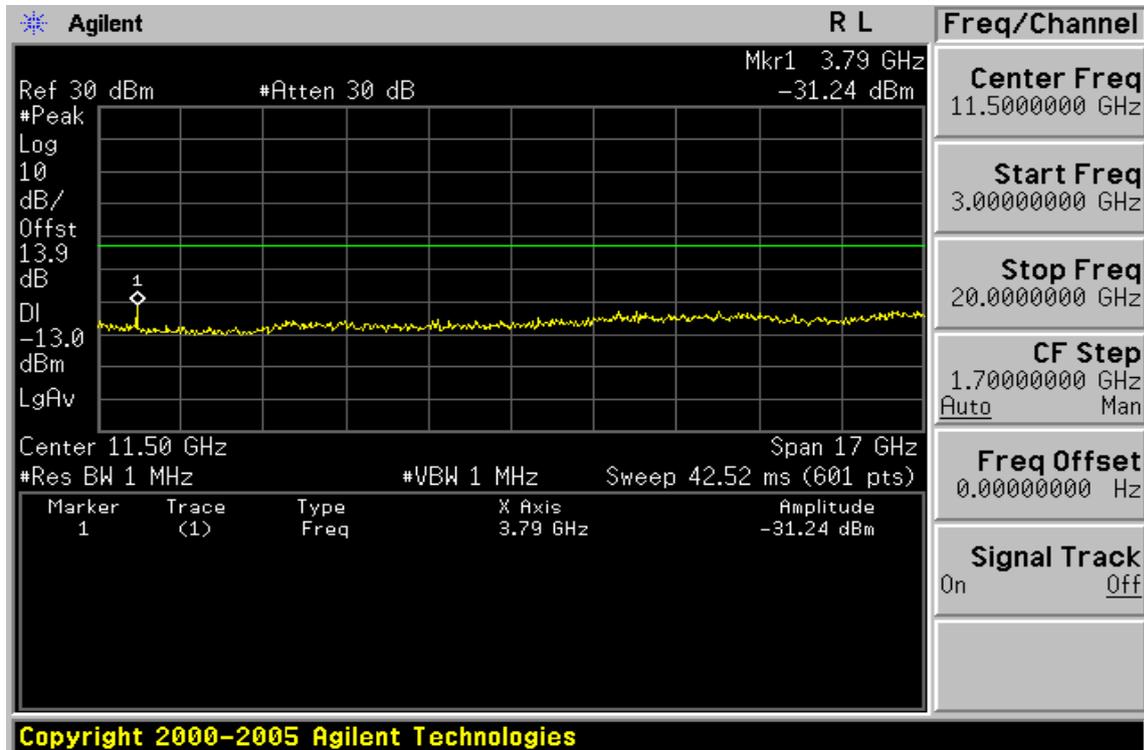
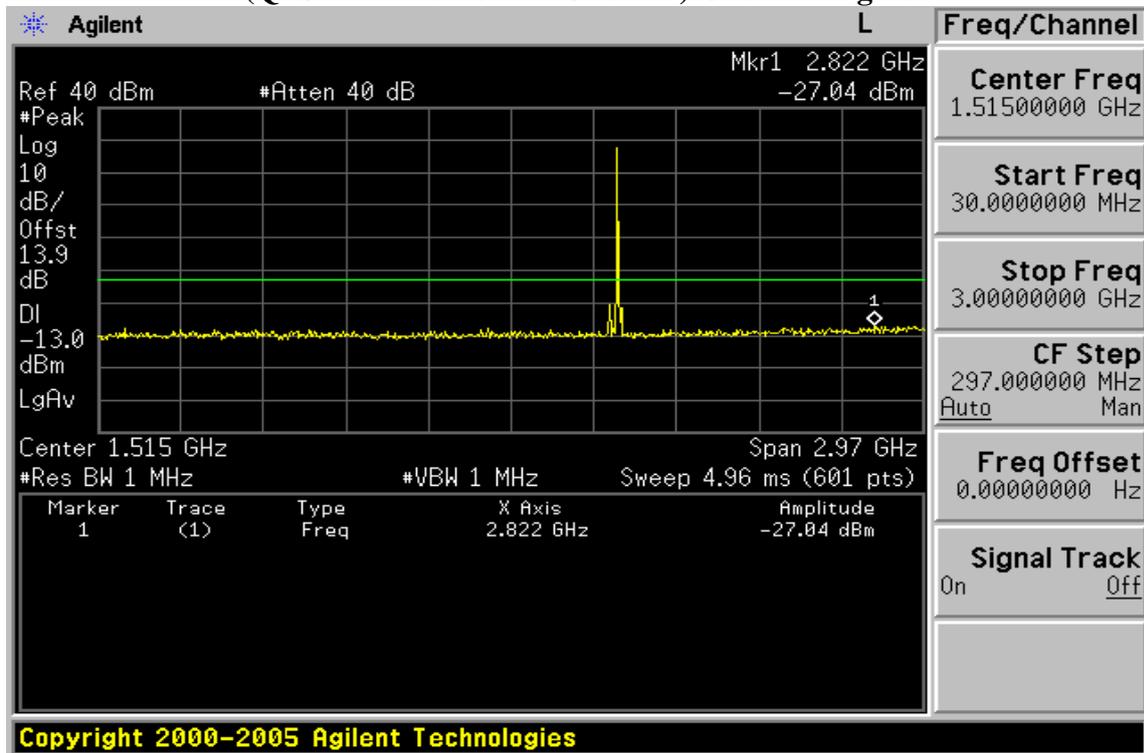


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**Out of Band emission at antenna terminals–15MHz BW LTE-Band 2  
(QPSK RB Number: 1 Offset: 0) Channel Highest**

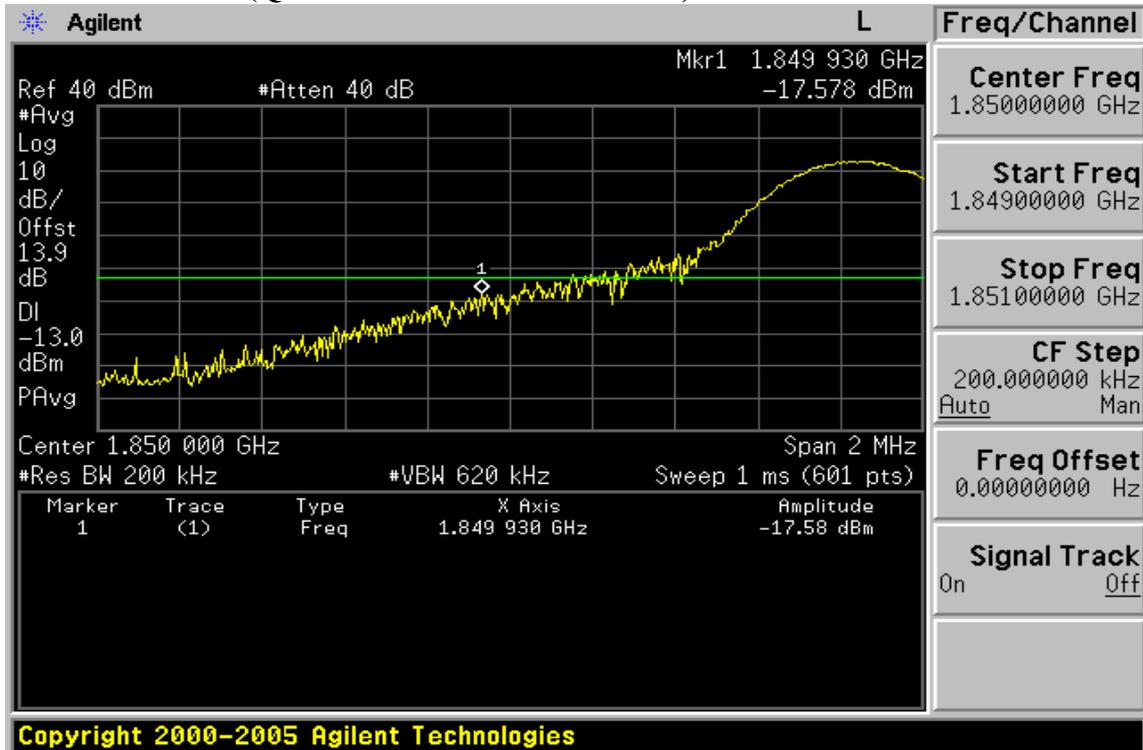


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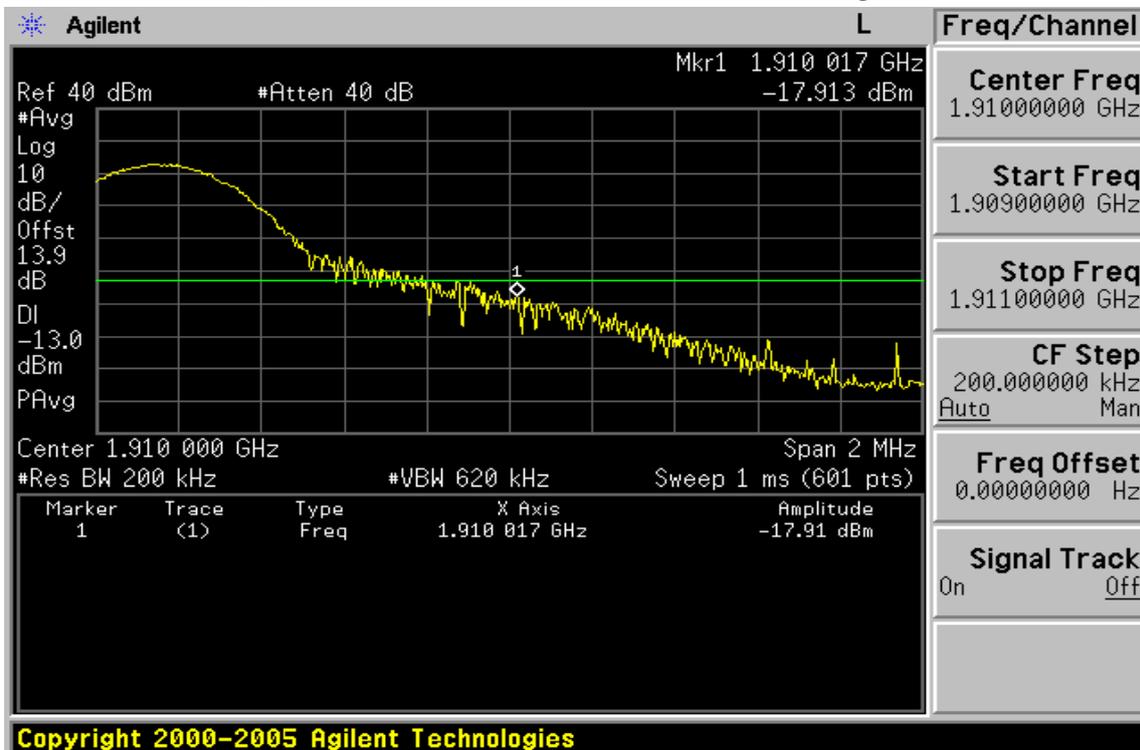
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**Band edge emission at antenna terminals –15MHz BW LTE-Band 2  
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



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



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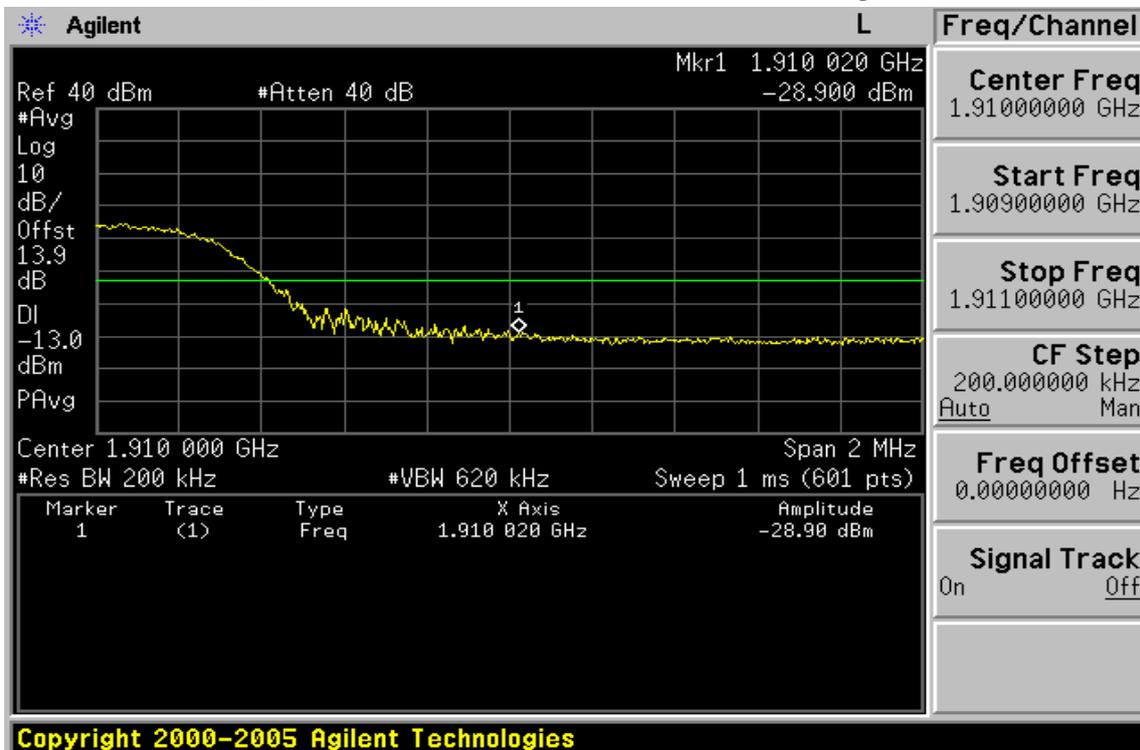
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**Band edge emission at antenna terminals –15MHz BW LTE-Band 2  
(QPSK RB Number: 75 Offset: 0) Channel Lowest**



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



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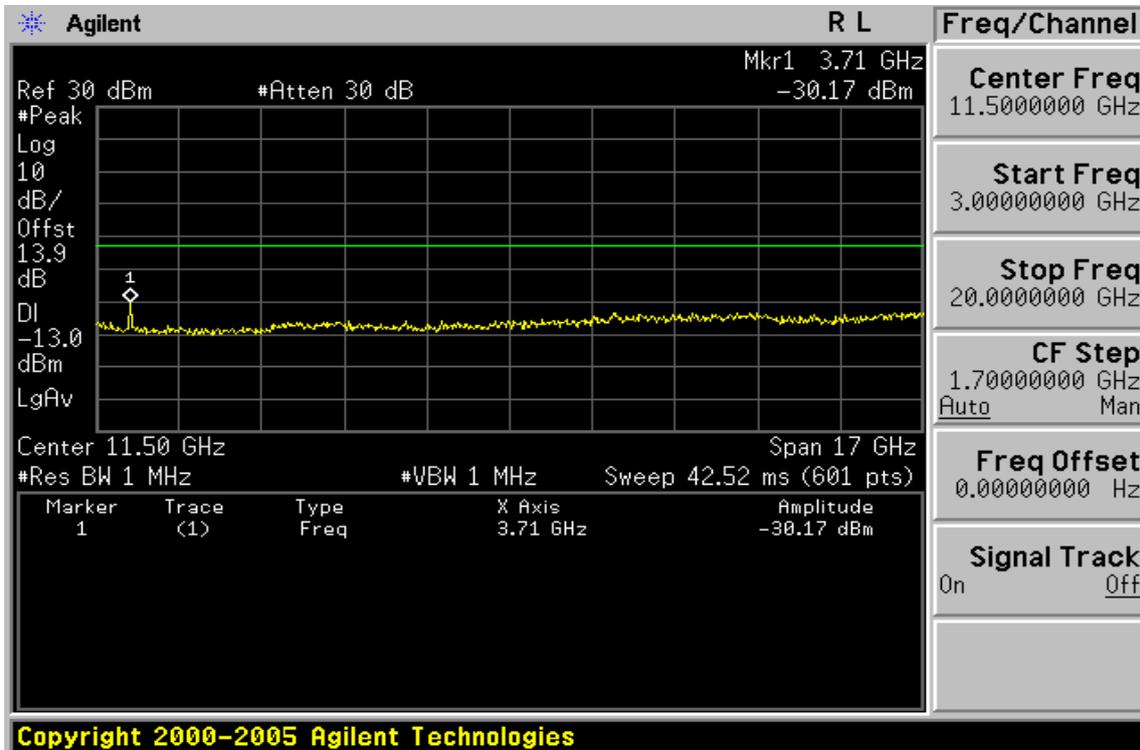
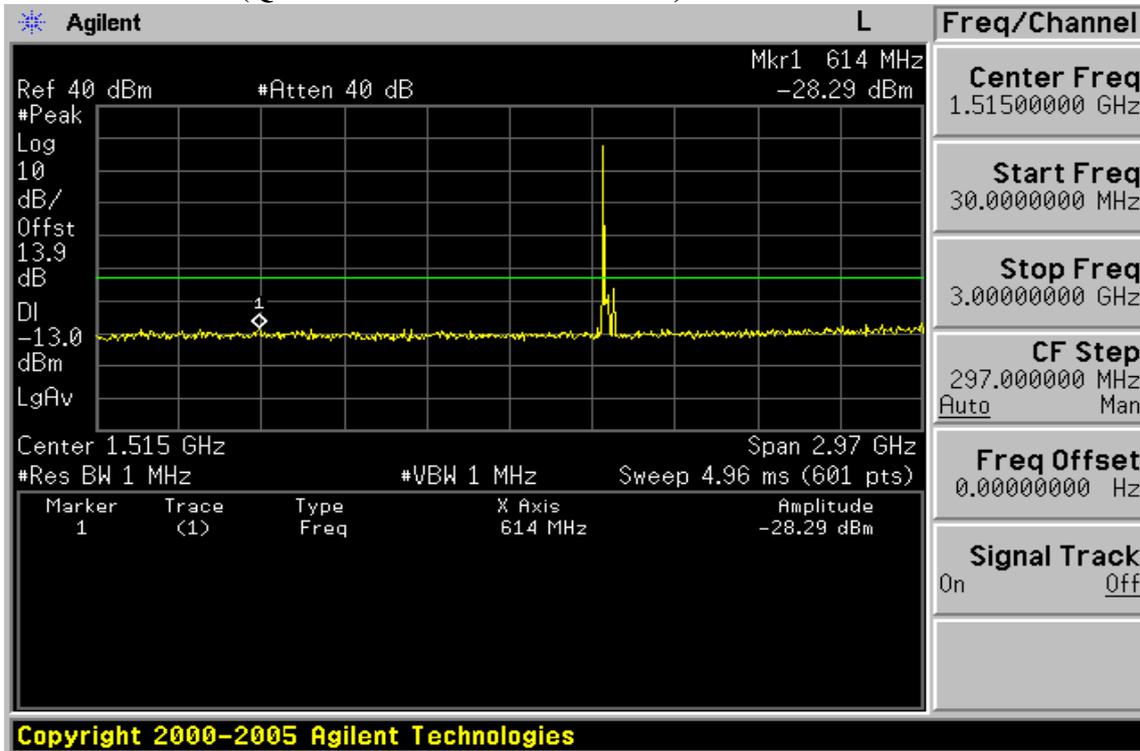
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**Out of Band emission at antenna terminals–20MHz BW LTE-Band 2  
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



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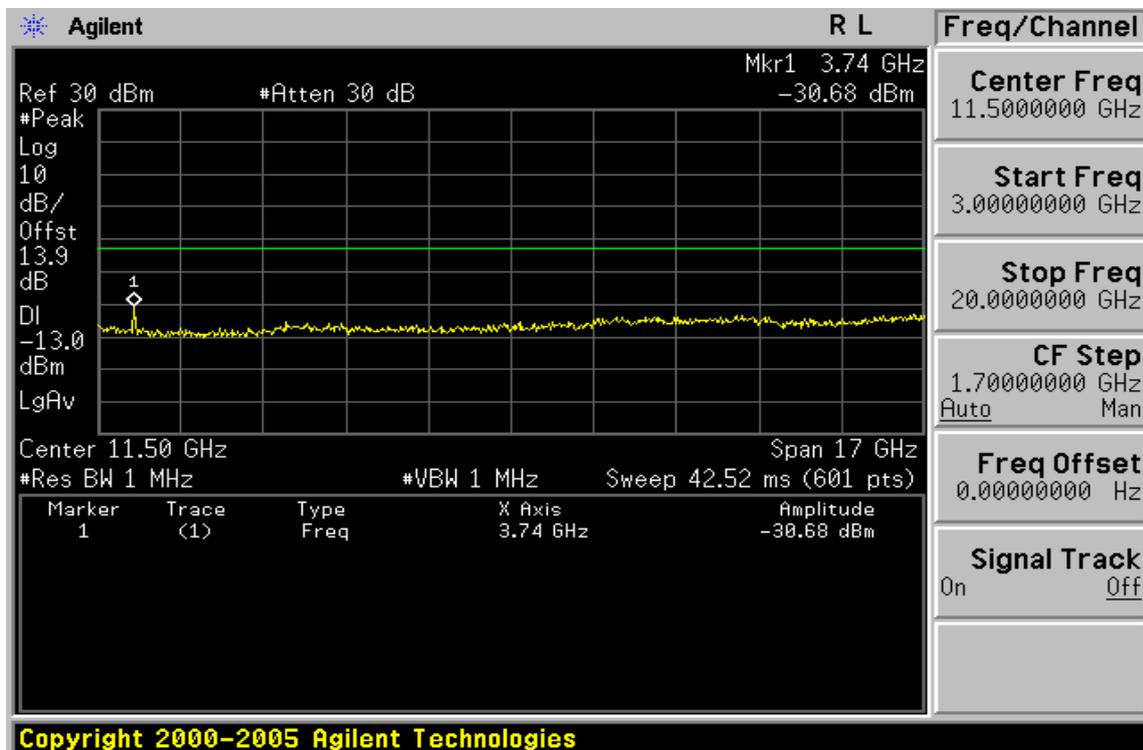
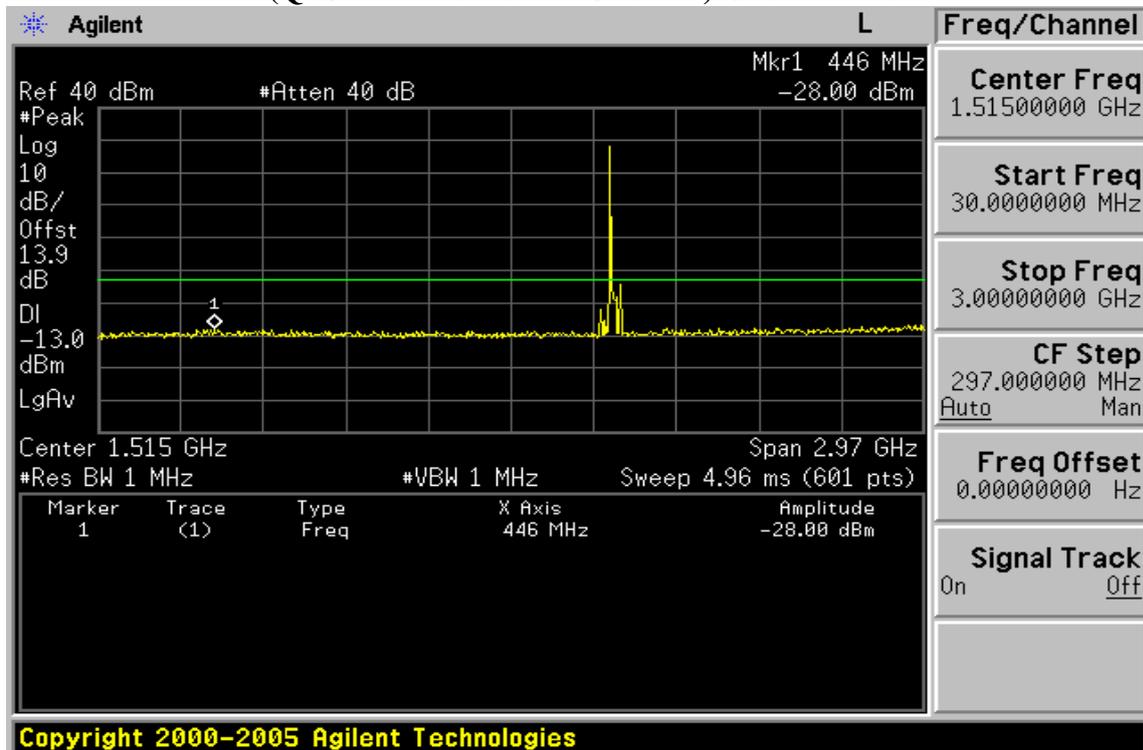
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**Out of Band emission at antenna terminals –20MHz BW LTE-Band 2  
(QPSK RB Number: 1 Offset: 0) Channel Mid**



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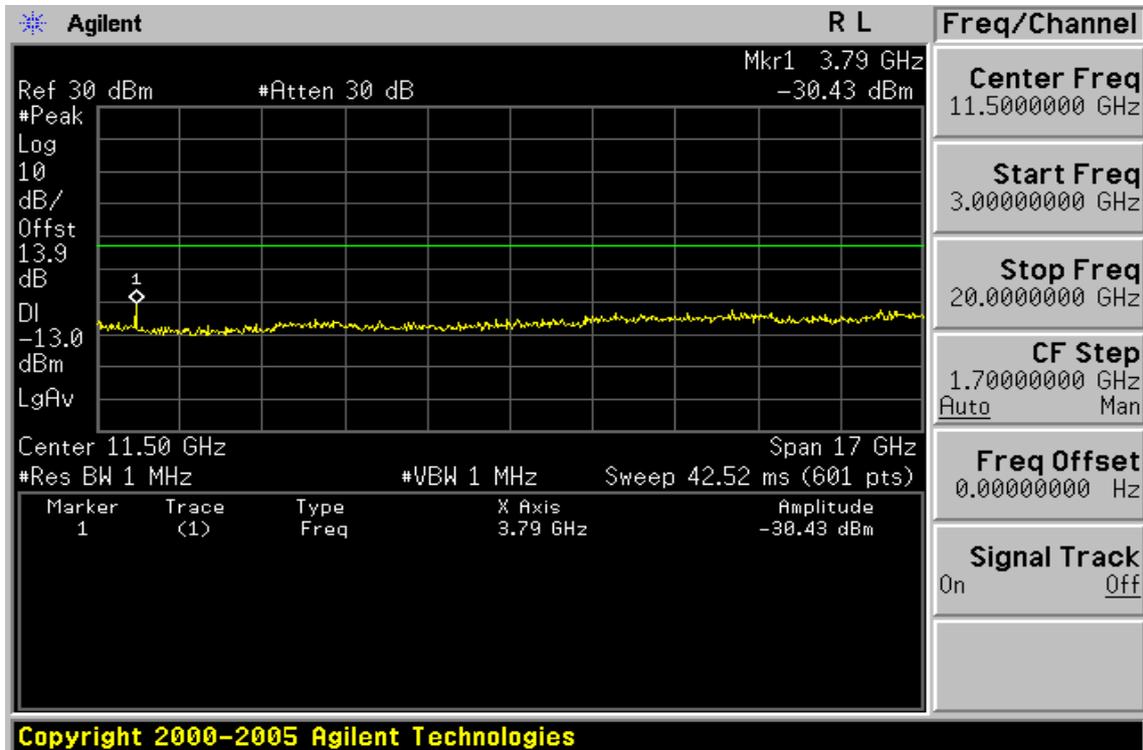
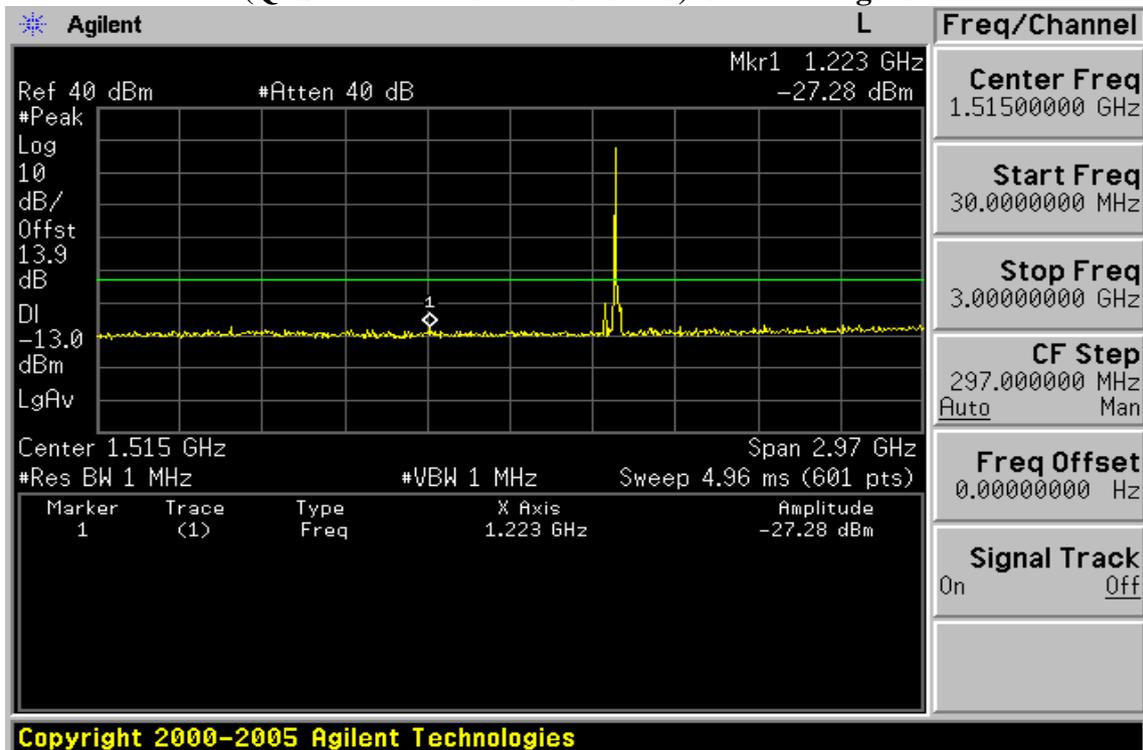
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**Out of Band emission at antenna terminals–20MHz BW LTE-Band 2  
(QPSK RB Number: 1 Offset: 0) Channel Highest**

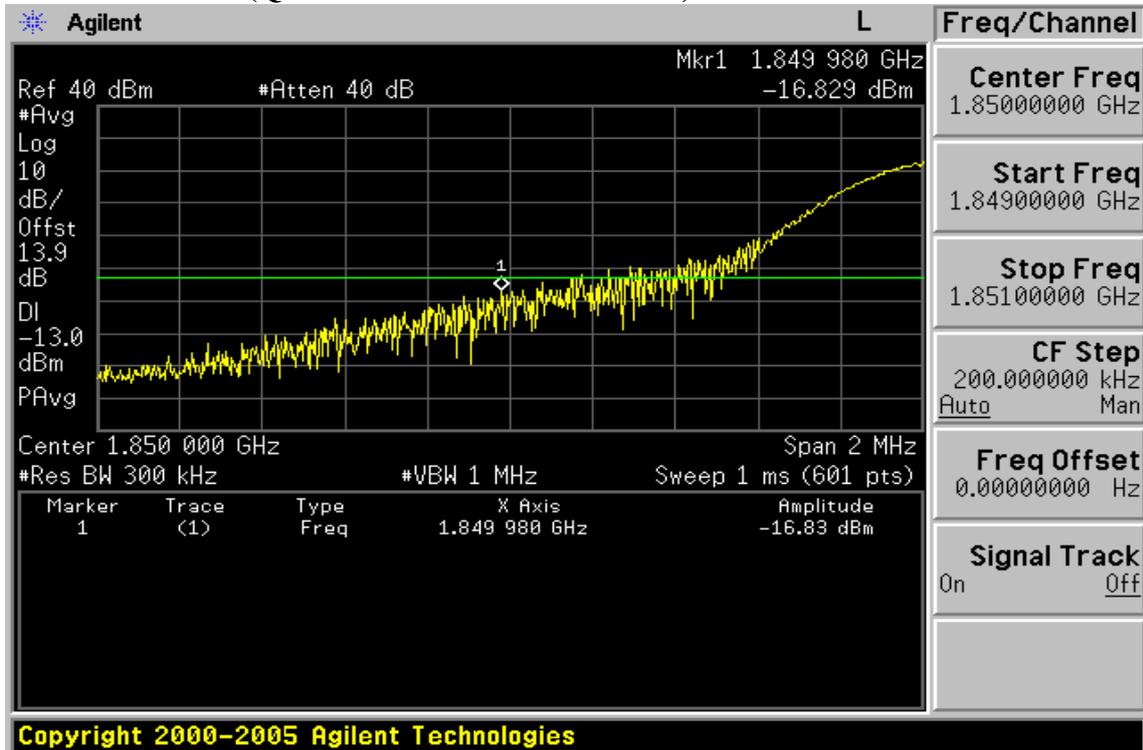


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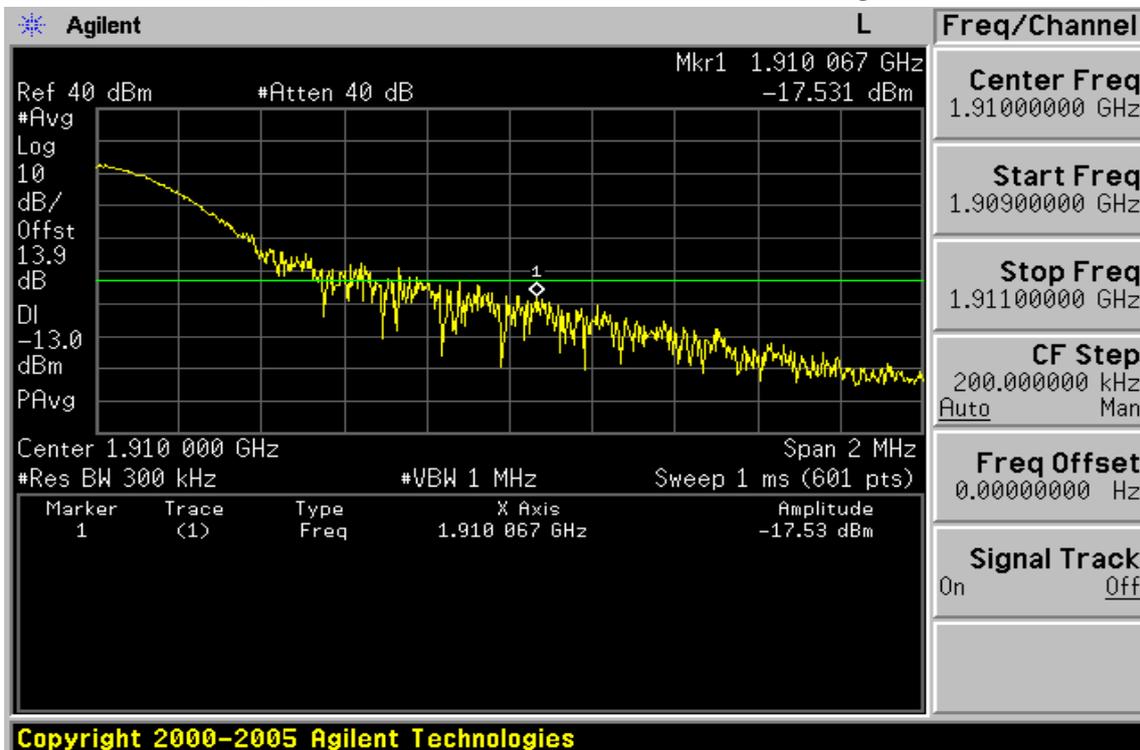
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**Band edge emission at antenna terminals –20MHz BW LTE-Band 2  
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



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



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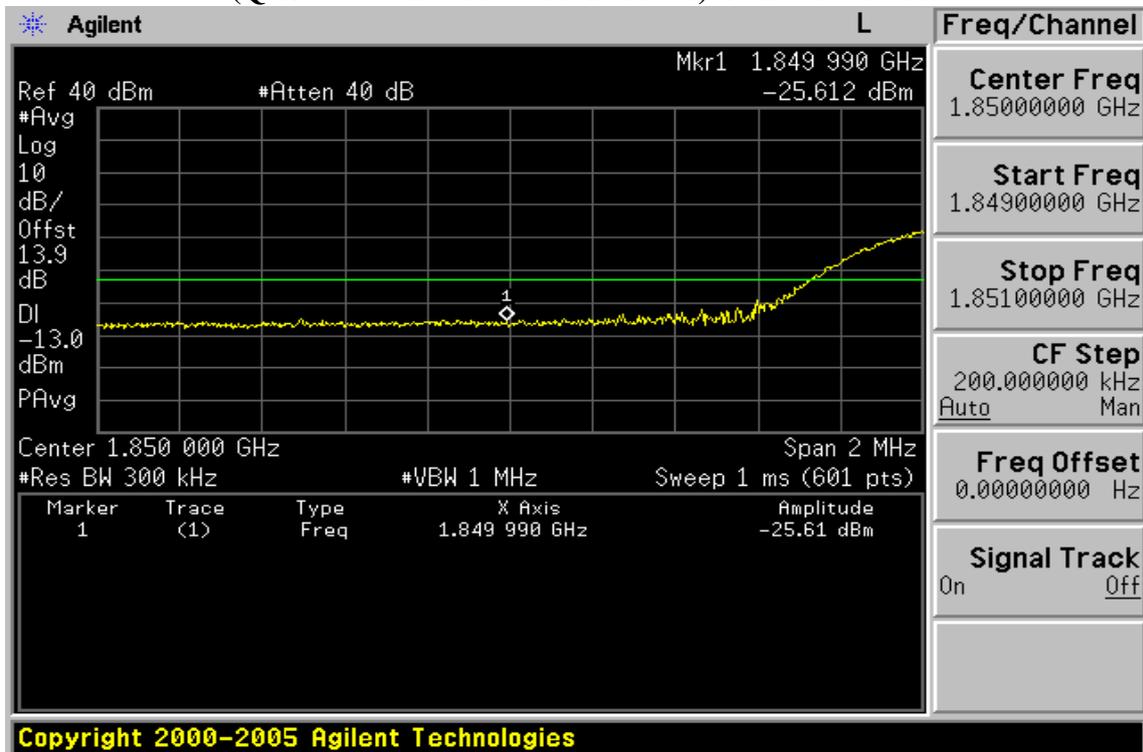
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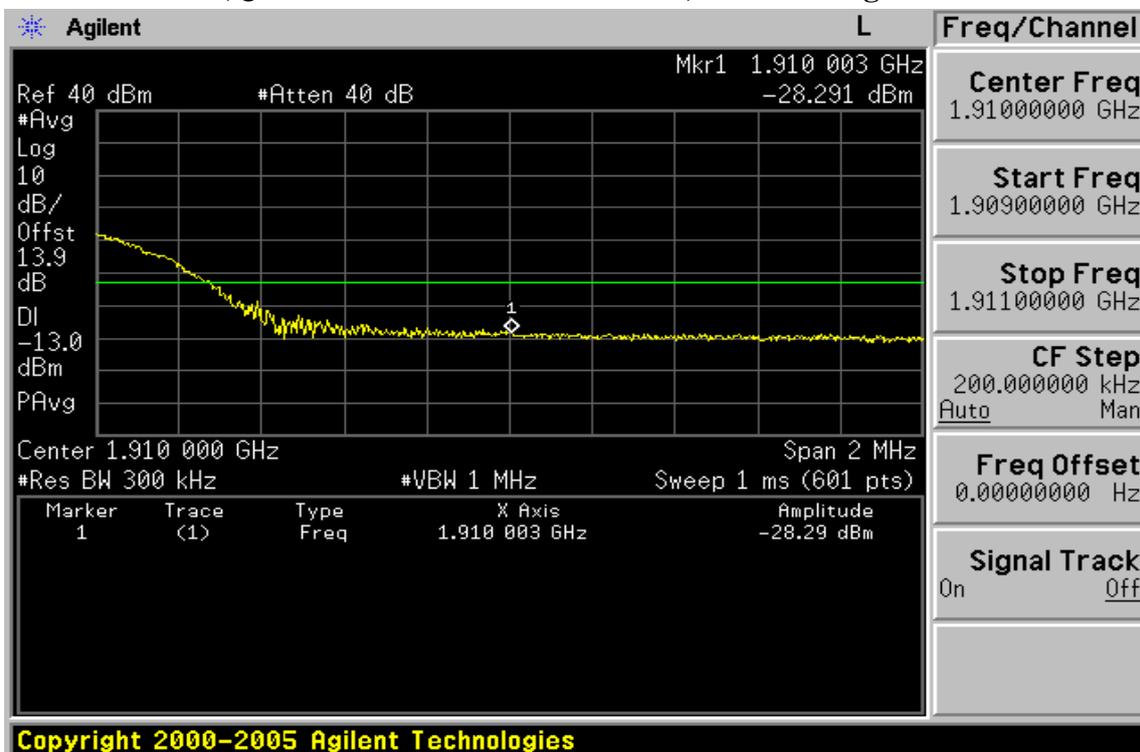
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**Band edge emission at antenna terminals –20MHz BW LTE-Band 2  
(QPSK RB Number: 100 Offset: 0) Channel Lowest**



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



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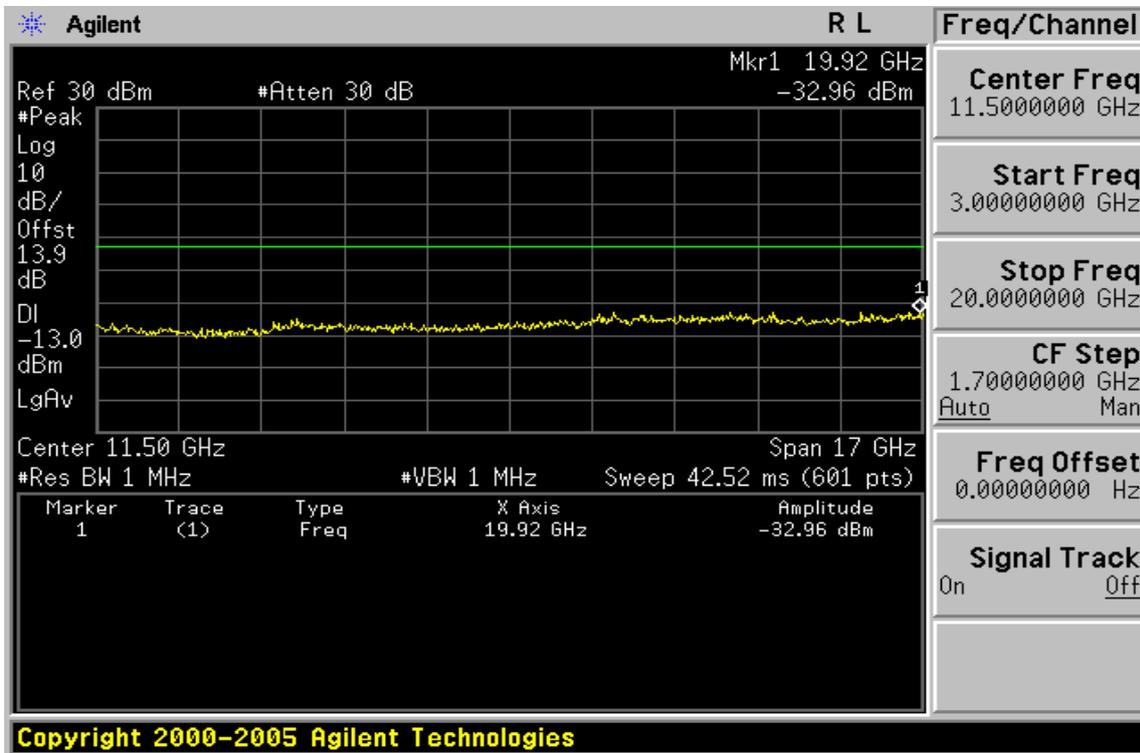
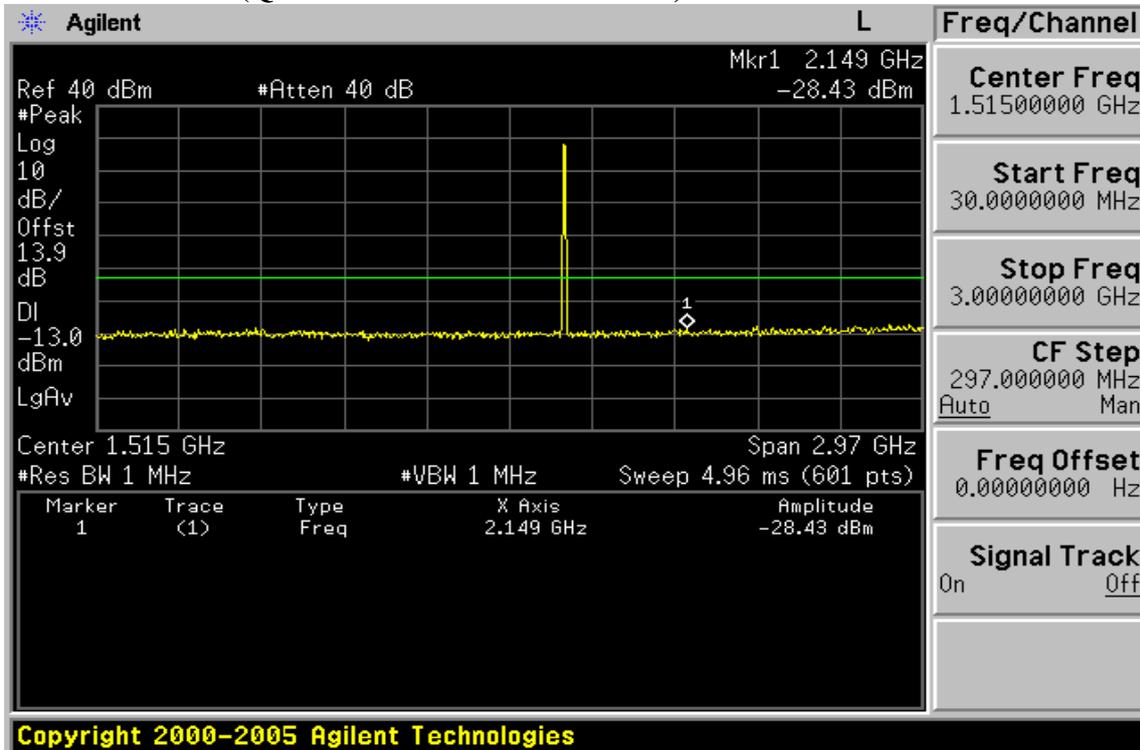
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**Out of Band emission at antenna terminals–1.4MHz BW LTE-Band 4  
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



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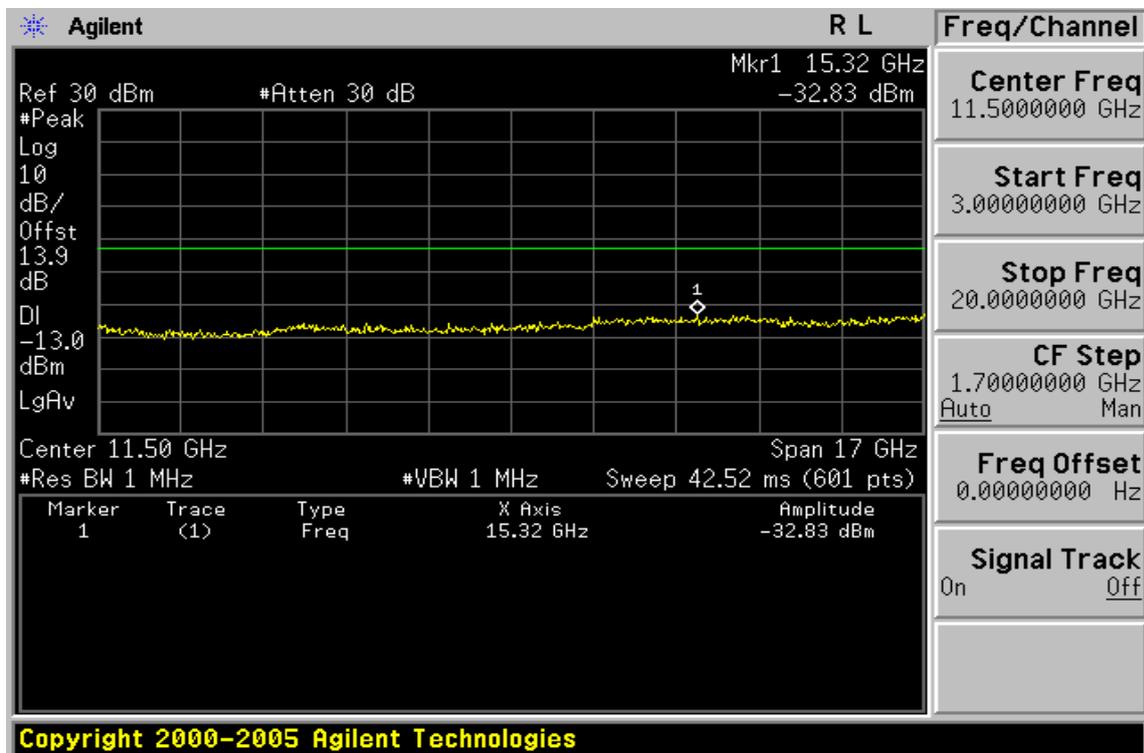
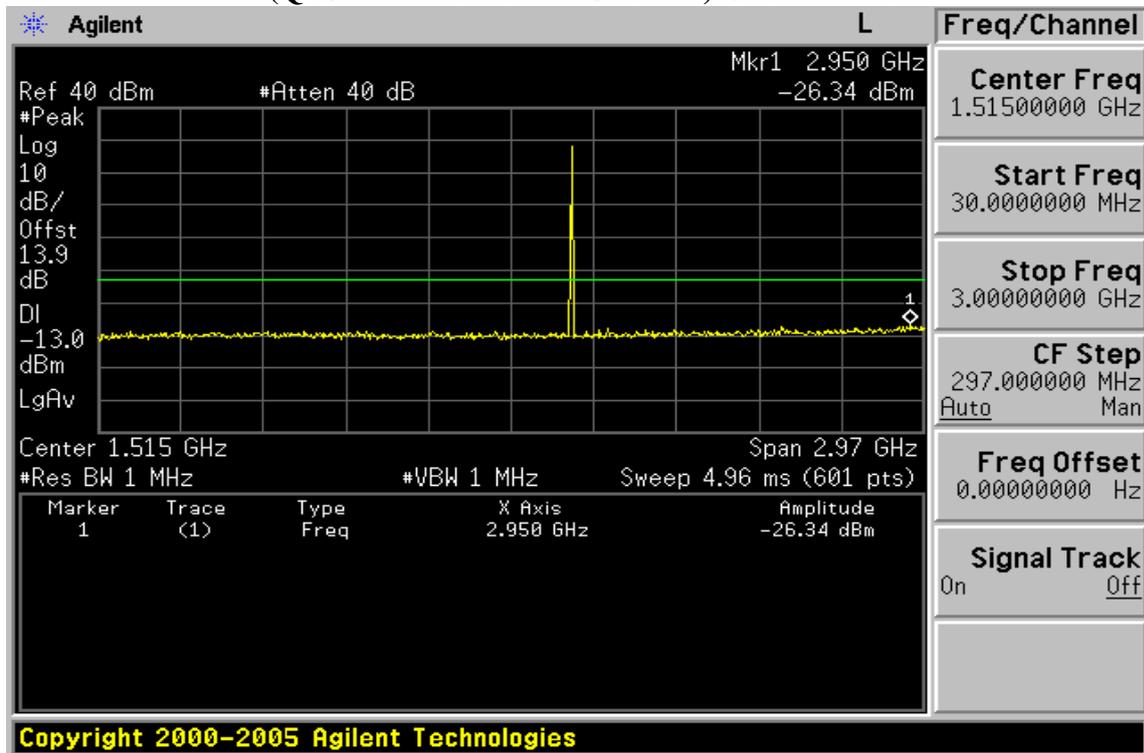
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**Out of Band emission at antenna terminals–1.4MHz BW LTE-Band 4  
(QPSK RB Number: 1 Offset: 0) Channel Mid**



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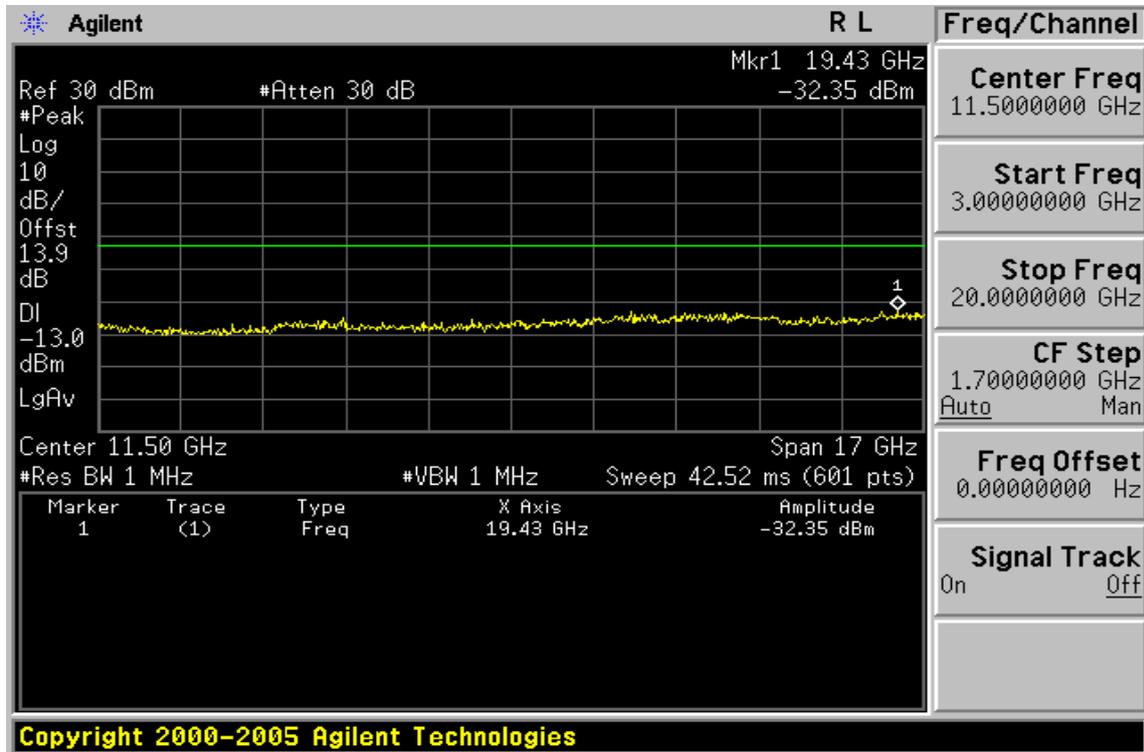
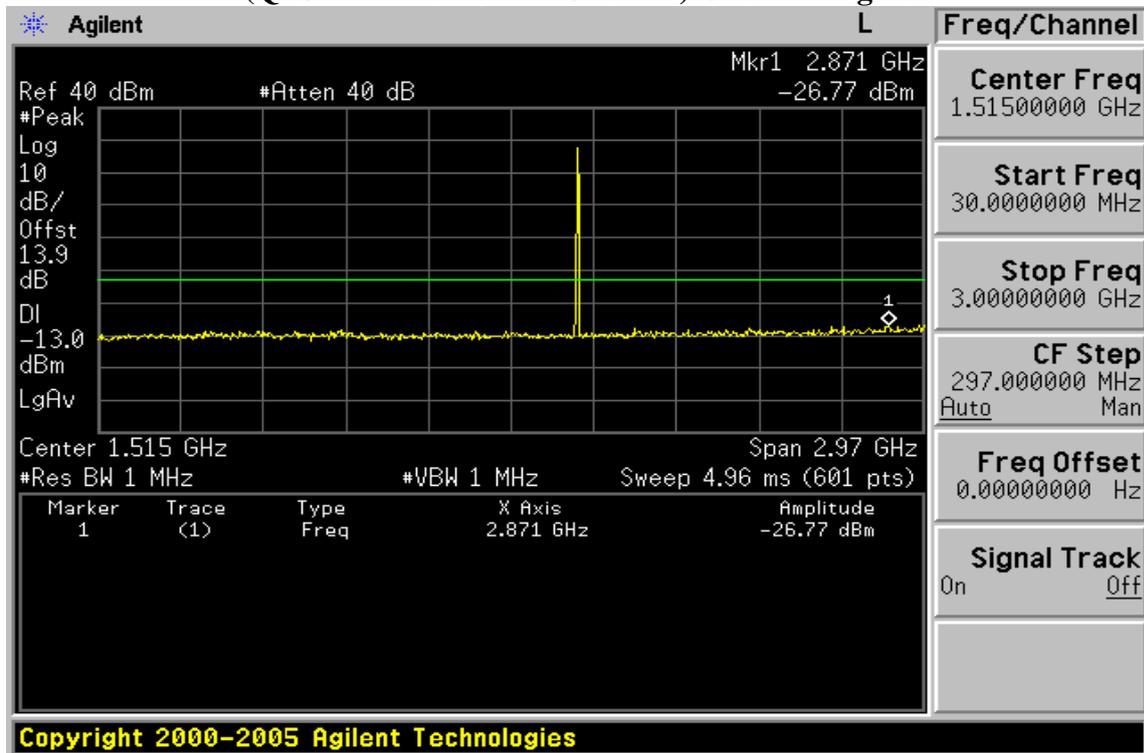
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**Out of Band emission at antenna terminals–1.4MHz BW LTE-Band 4  
(QPSK RB Number: 1 Offset: 0) Channel Highest**



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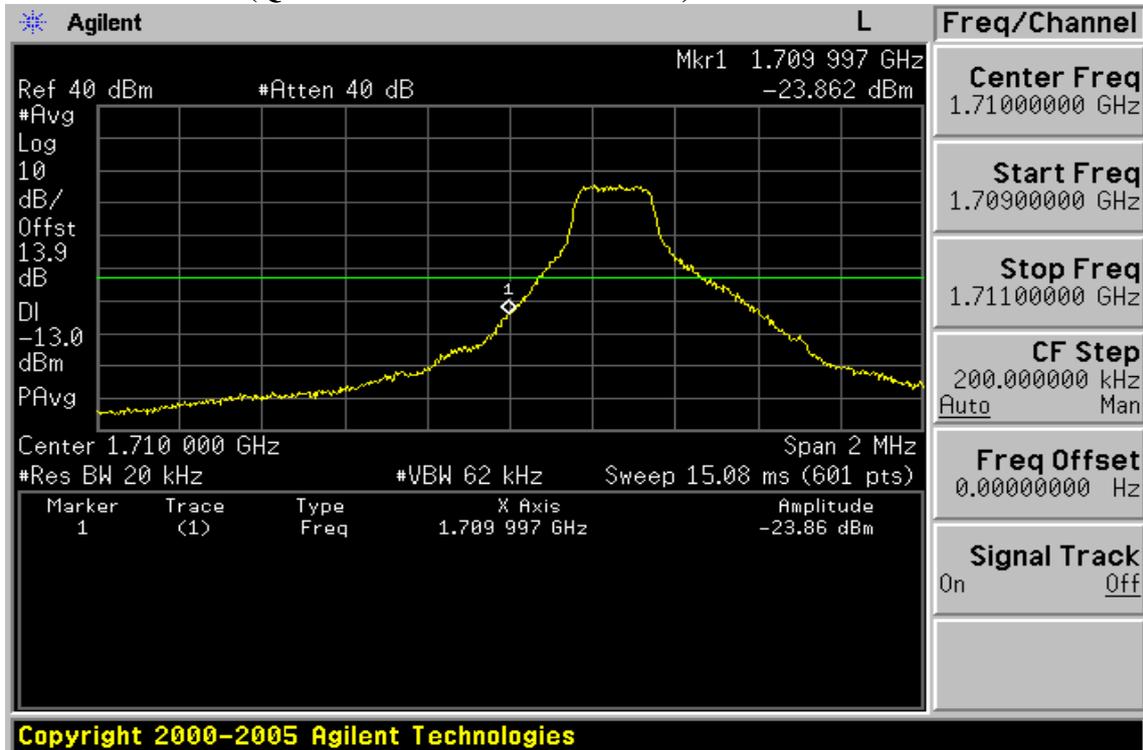
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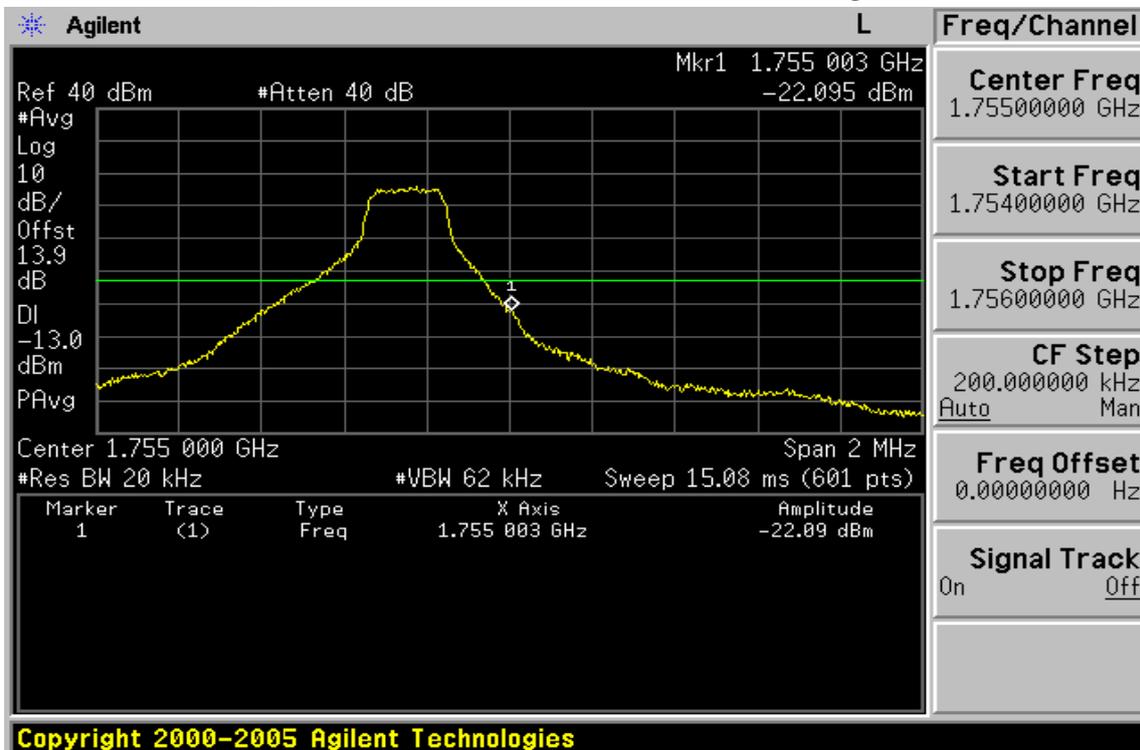
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**Band edge emission at antenna terminals –1.4MHz BW LTE-Band 4  
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



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



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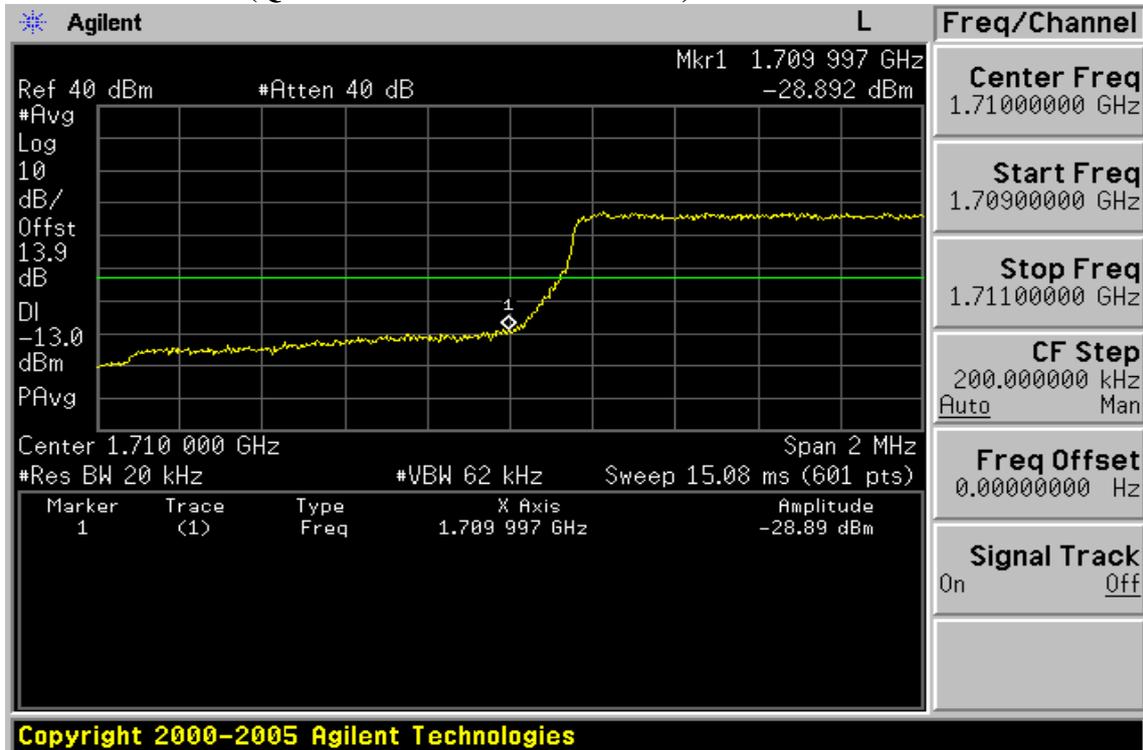
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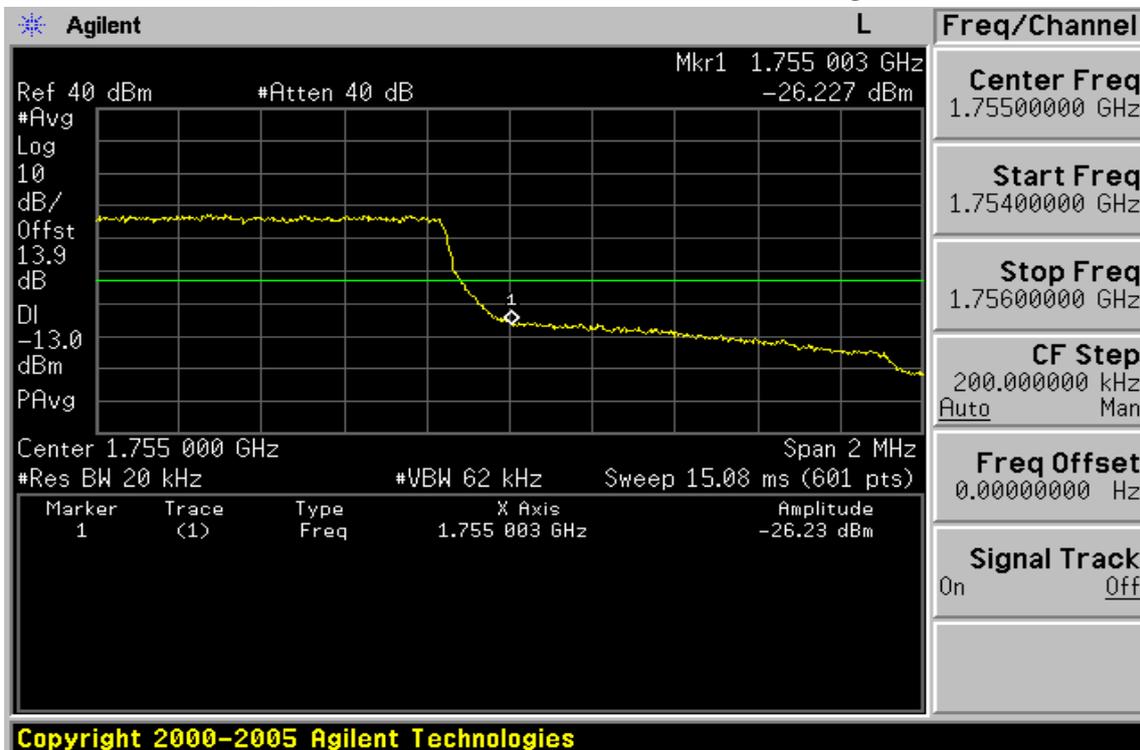
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**Band edge emission at antenna terminals –1.4MHz BW LTE-Band 4  
(QPSK RB Number: 6 Offset: 0) Channel Lowest**



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



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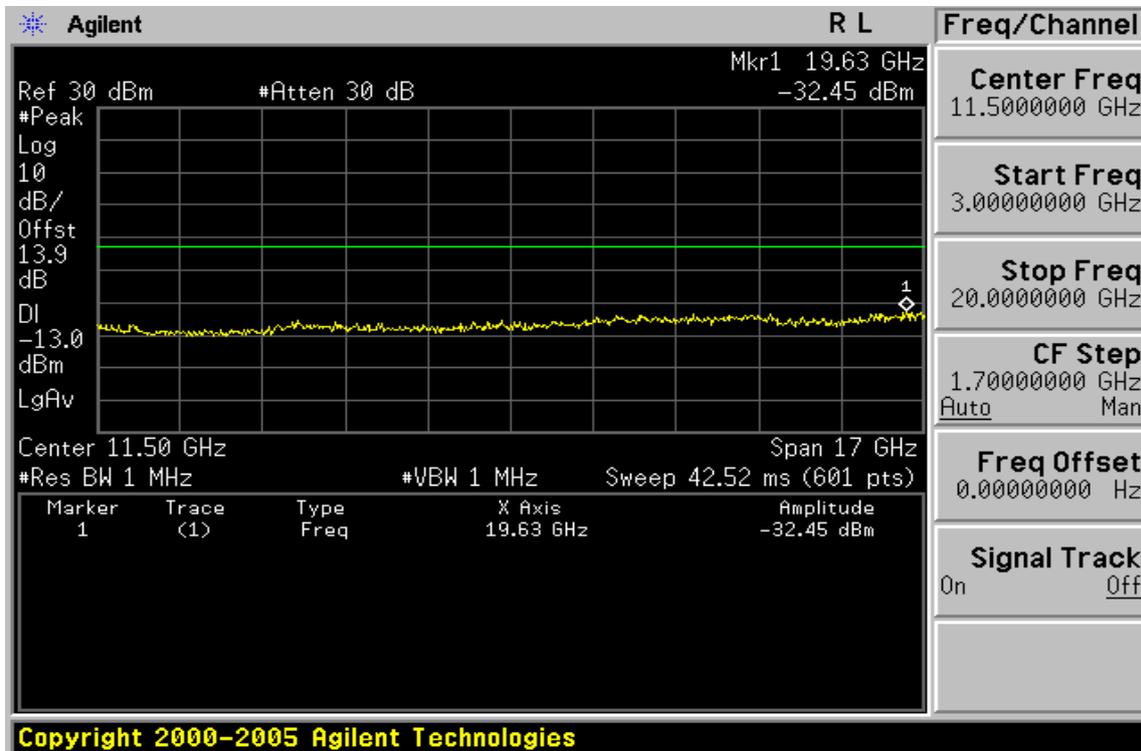
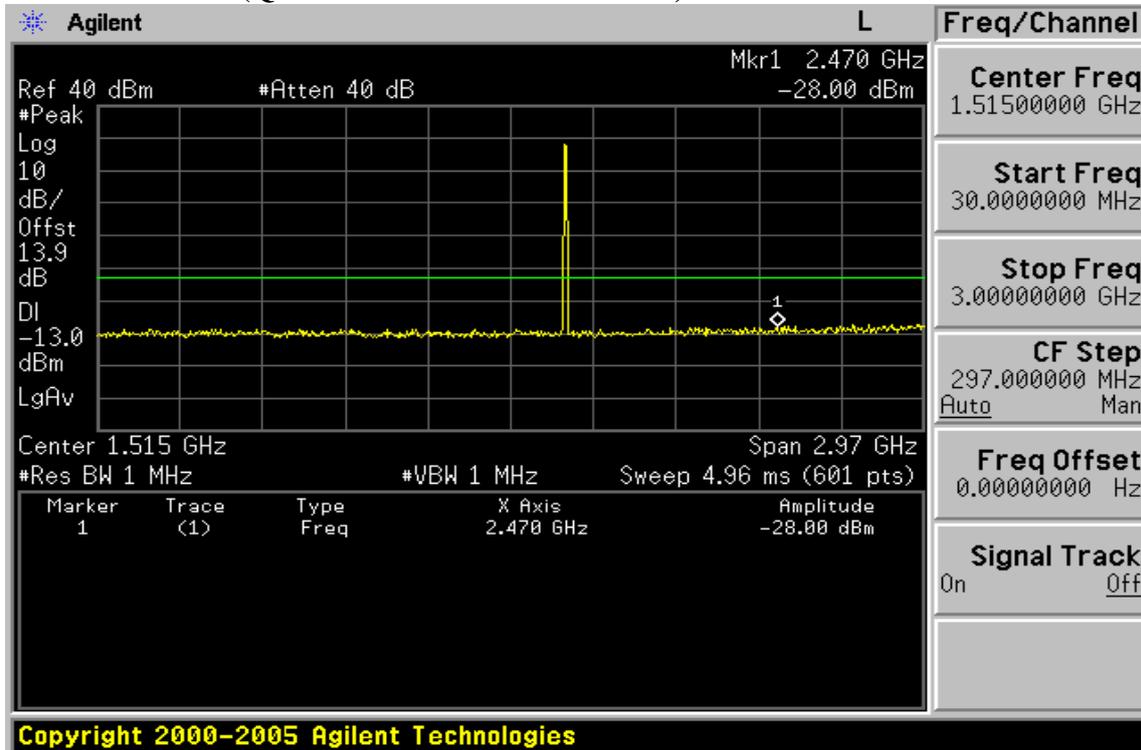
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**Out of Band emission at antenna terminals–3MHz BW LTE-Band 4  
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



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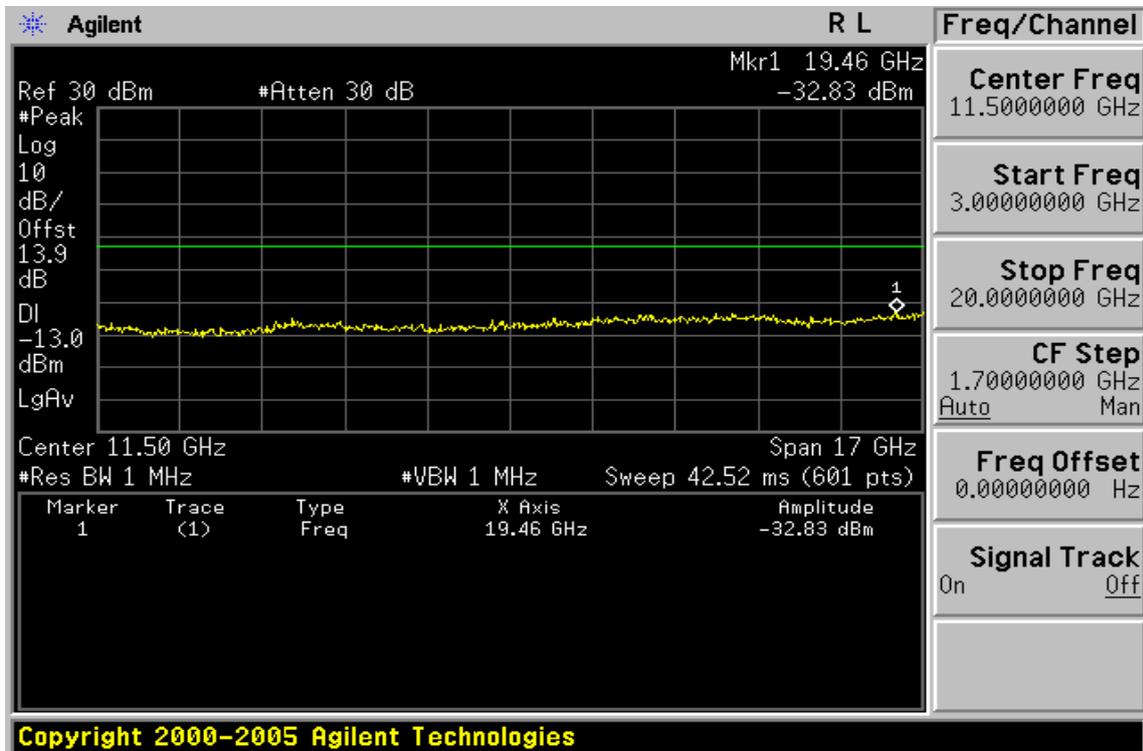
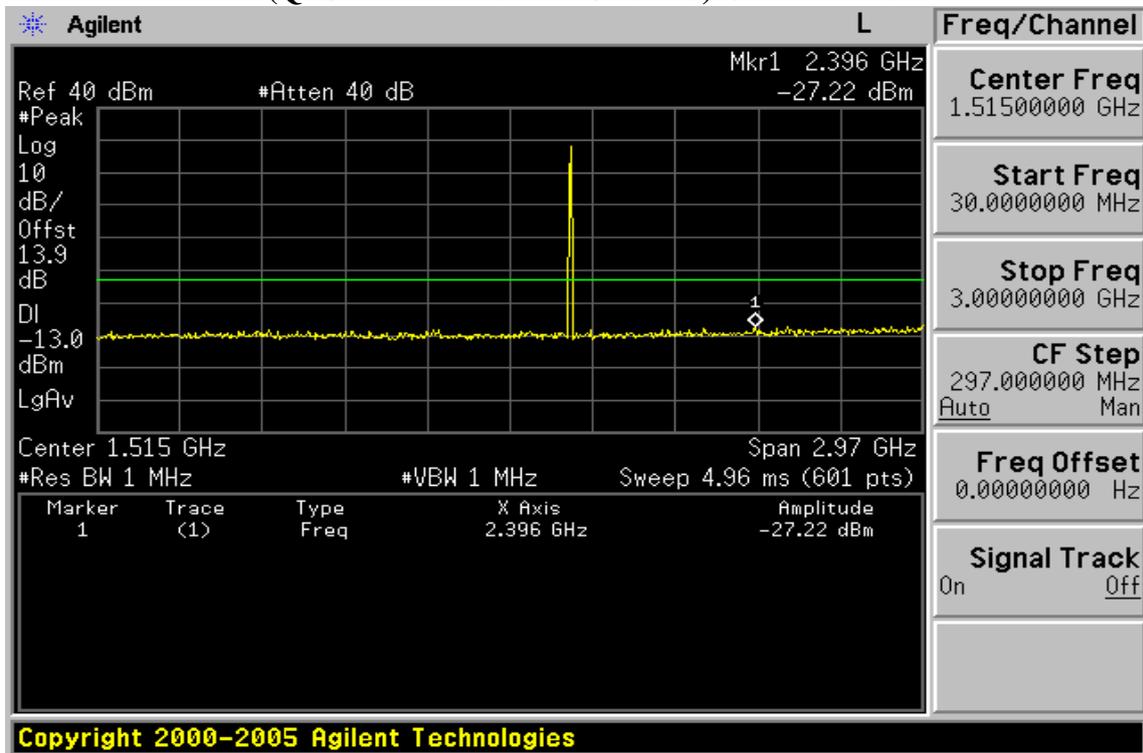
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**Out of Band emission at antenna terminals –3MHz BW LTE-Band 4  
 (QPSK RB Number: 1 Offset: 0) Channel Mid**

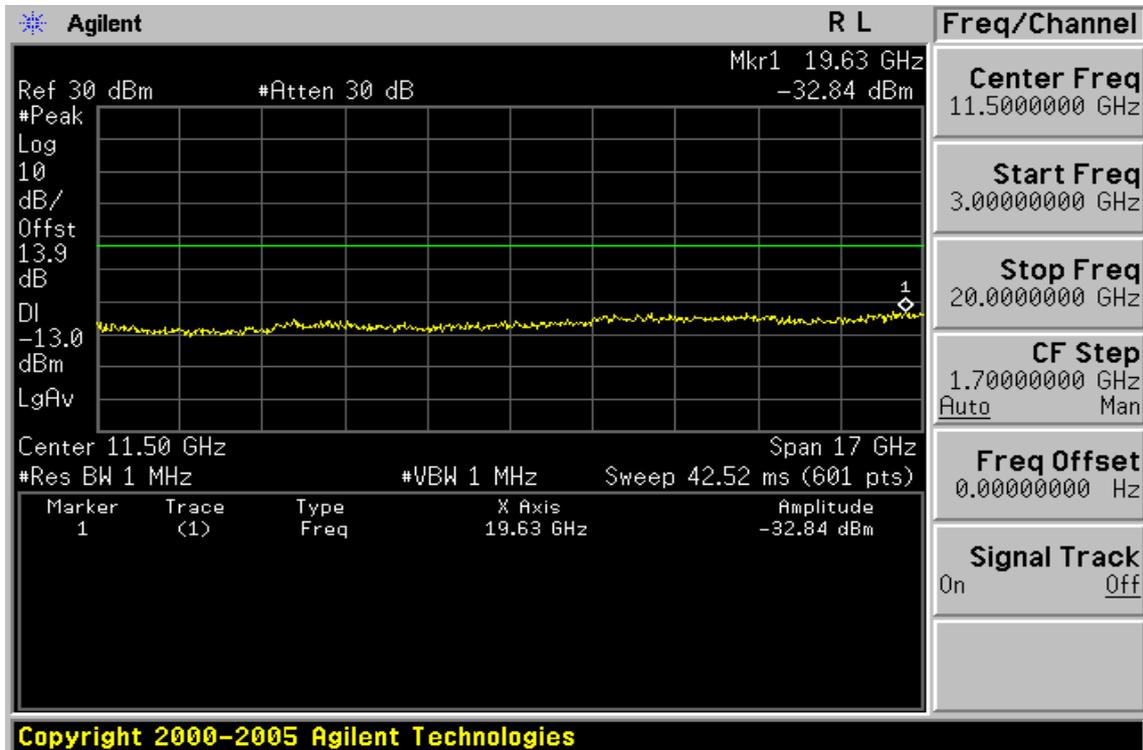
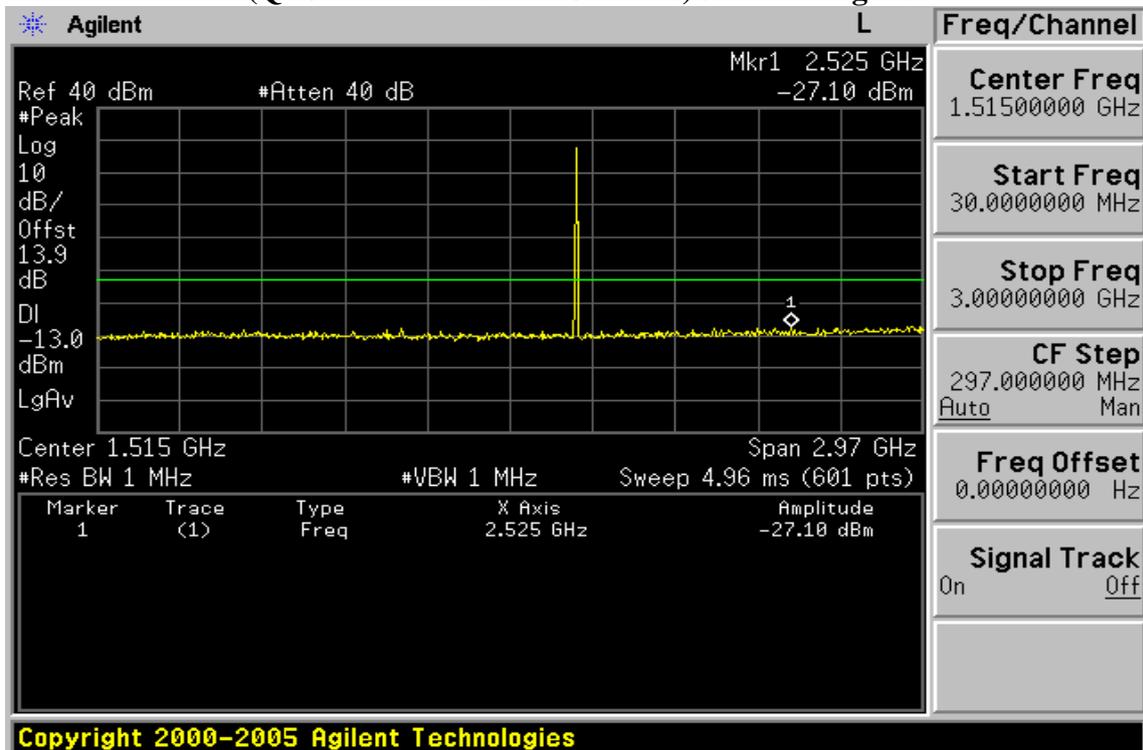


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**Out of Band emission at antenna terminals–3MHz BW LTE-Band 4  
(QPSK RB Number: 1 Offset: 0)Channel Highest**



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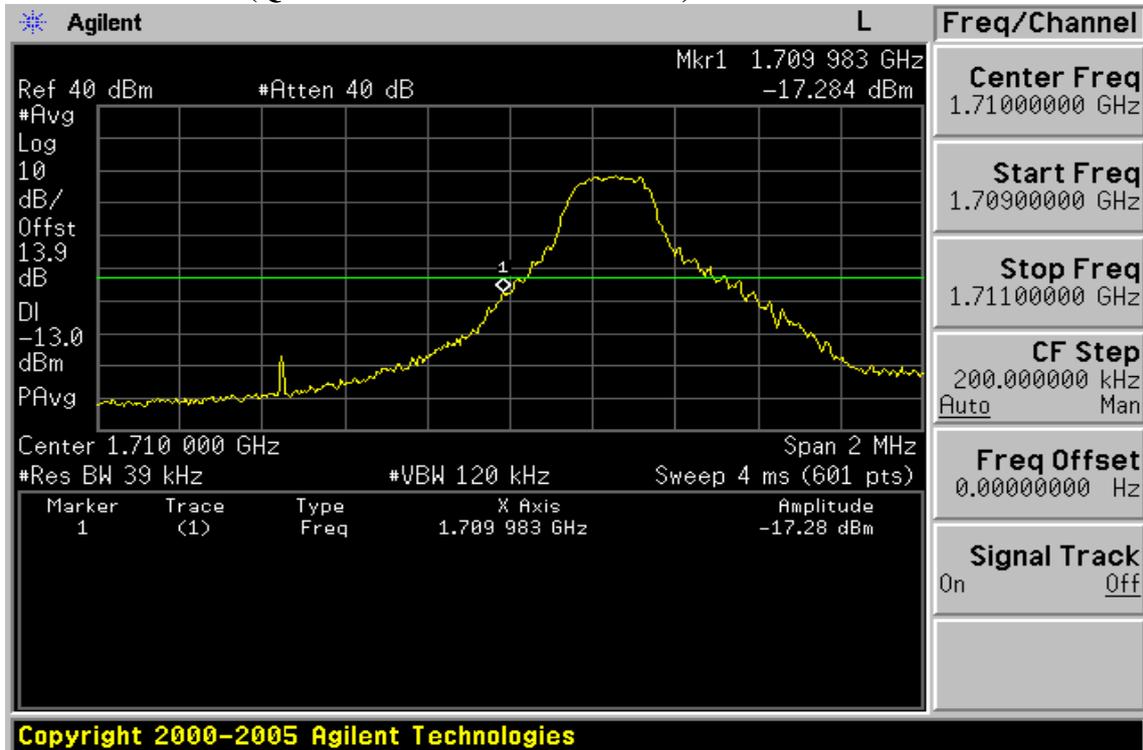
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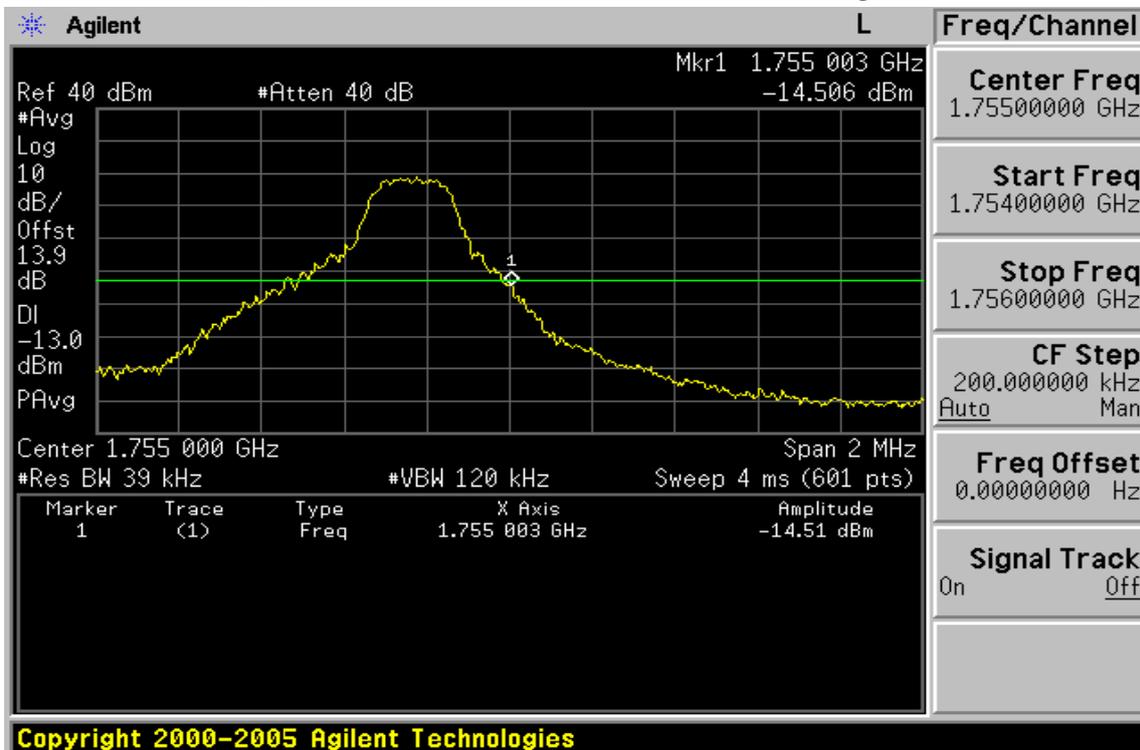
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**Band edge emission at antenna terminals –3MHz BW LTE-Band 4  
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



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



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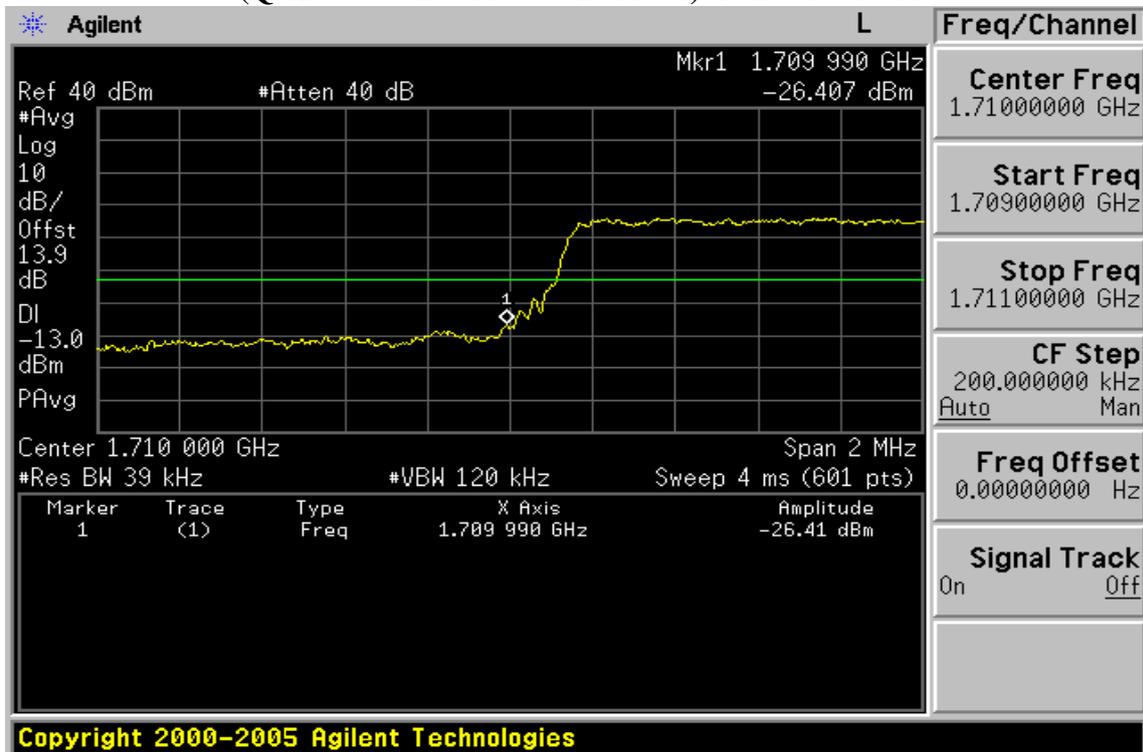
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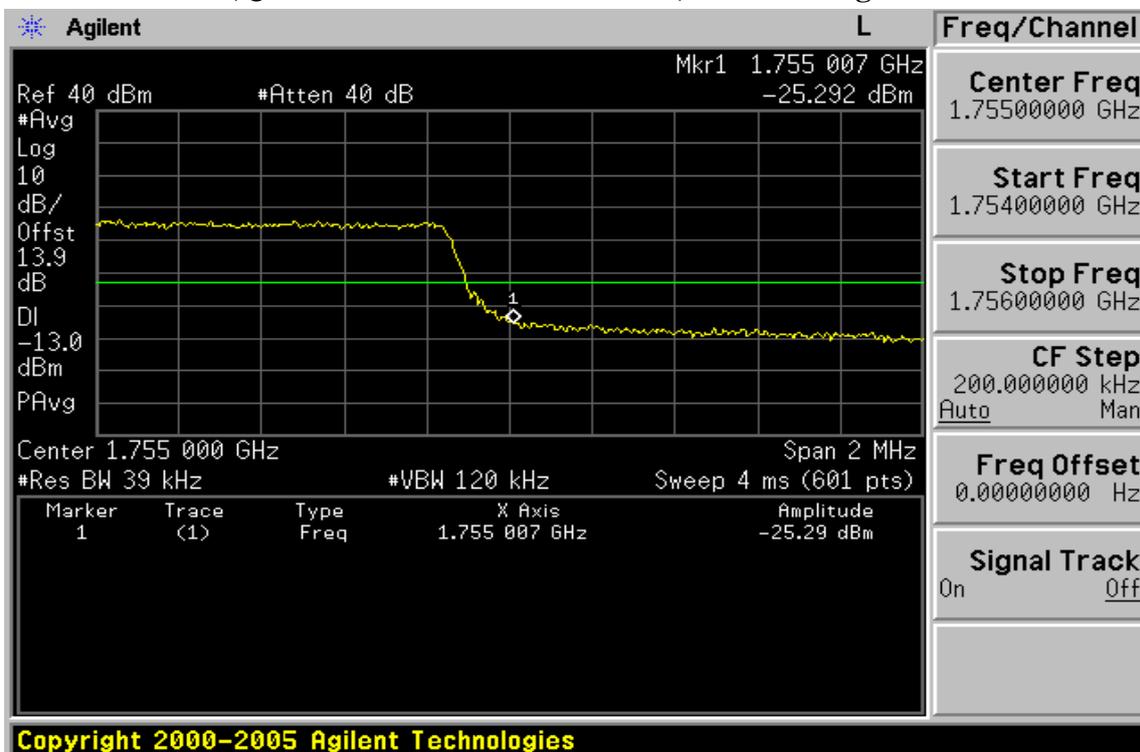
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**Band edge emission at antenna terminals –3MHz BW LTE-Band 4  
(QPSK RB Number: 15 Offset: 0) Channel Lowest**



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



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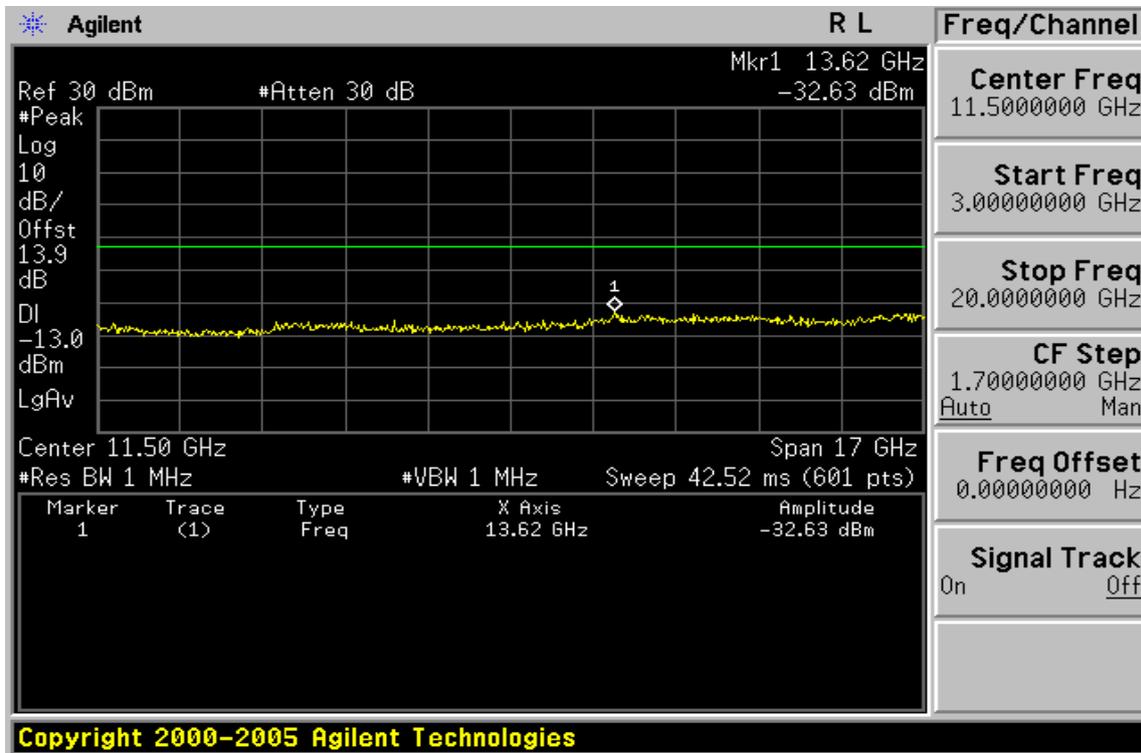
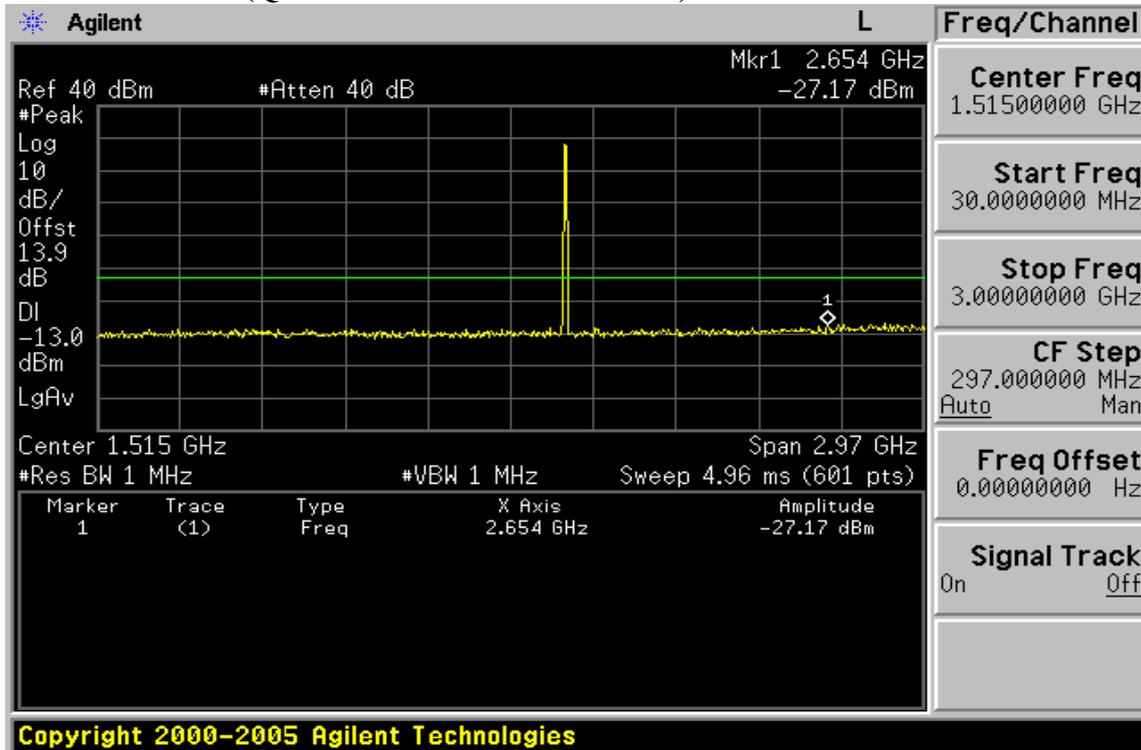
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**Out of Band emission at antenna terminals-5MHz BW LTE-Band 4  
(QPSK RB Number: 1 Offset: 0)Channel Lowest**



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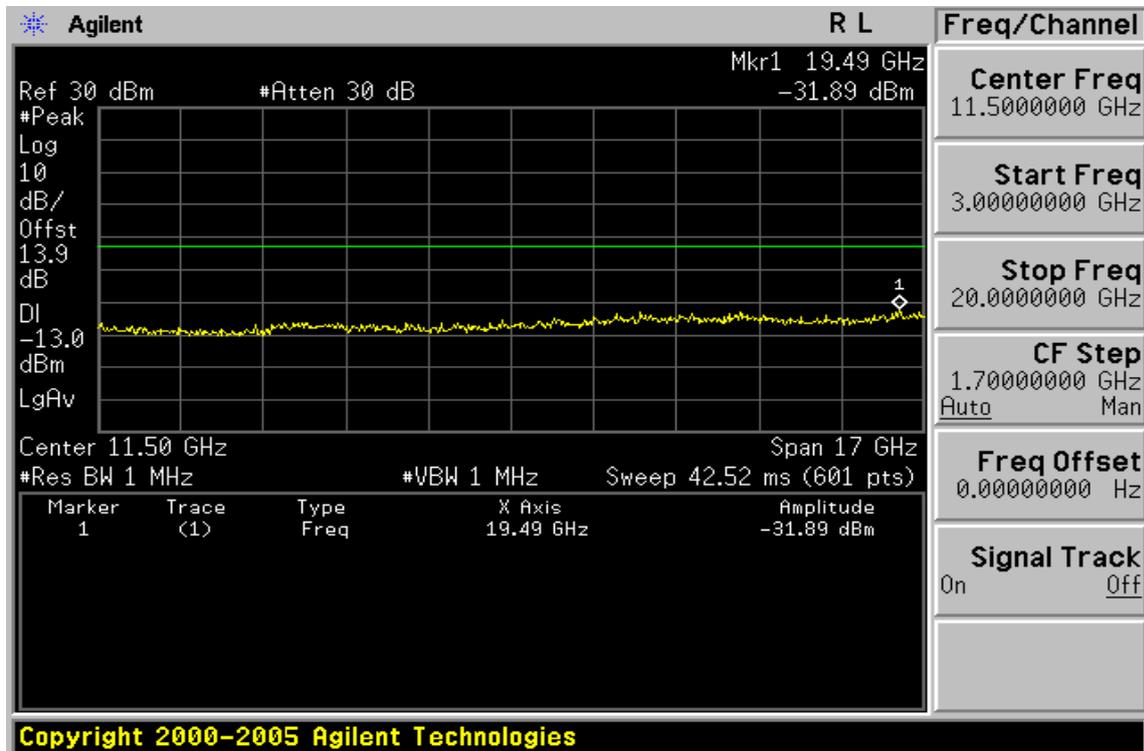
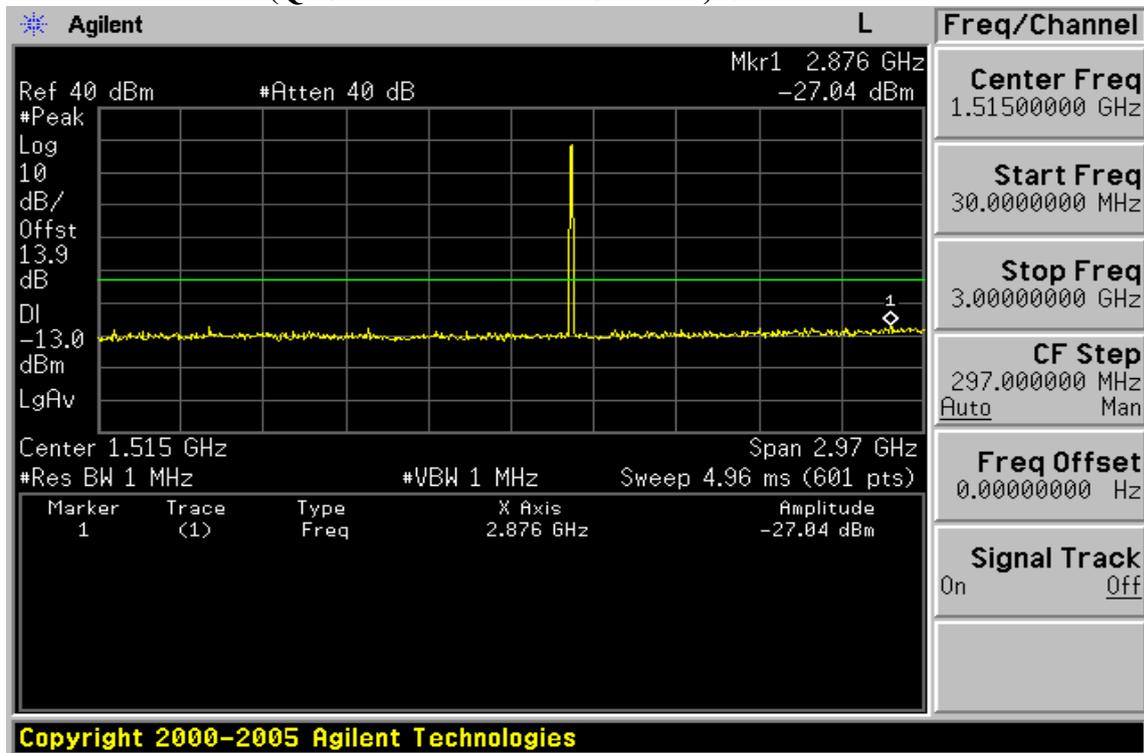
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**Out of Band emission at antenna terminals –5MHz BW LTE-Band 4  
(QPSK RB Number: 1 Offset: 0) Channel Mid**



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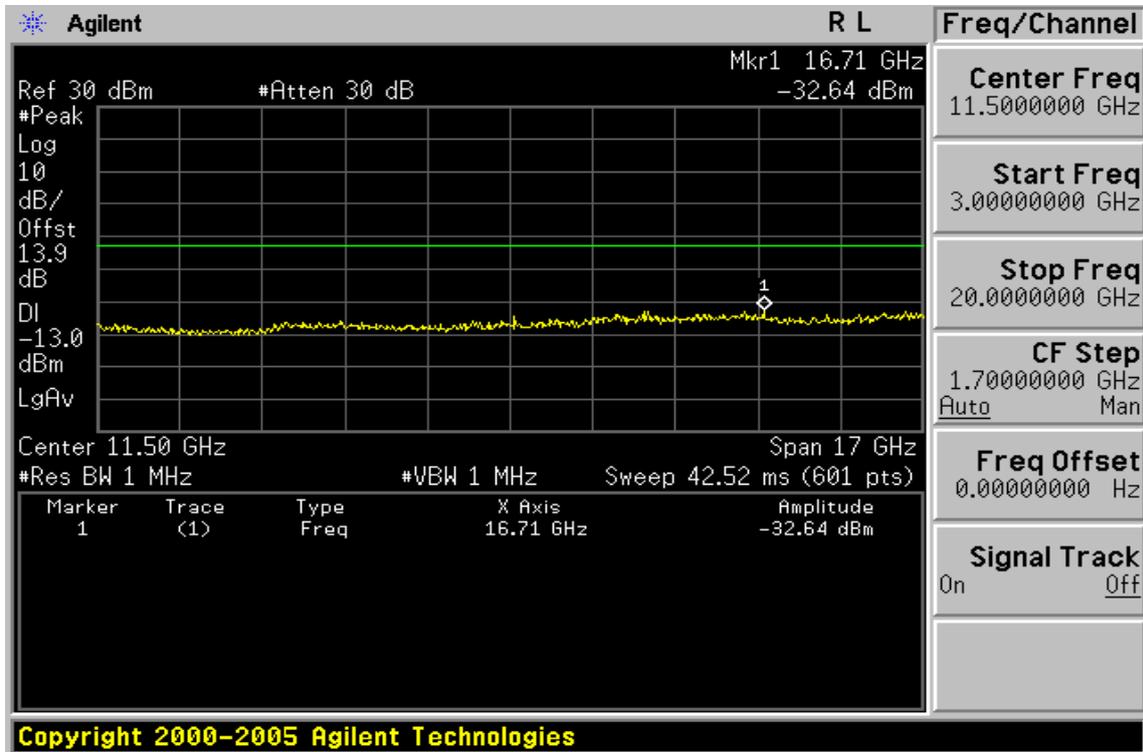
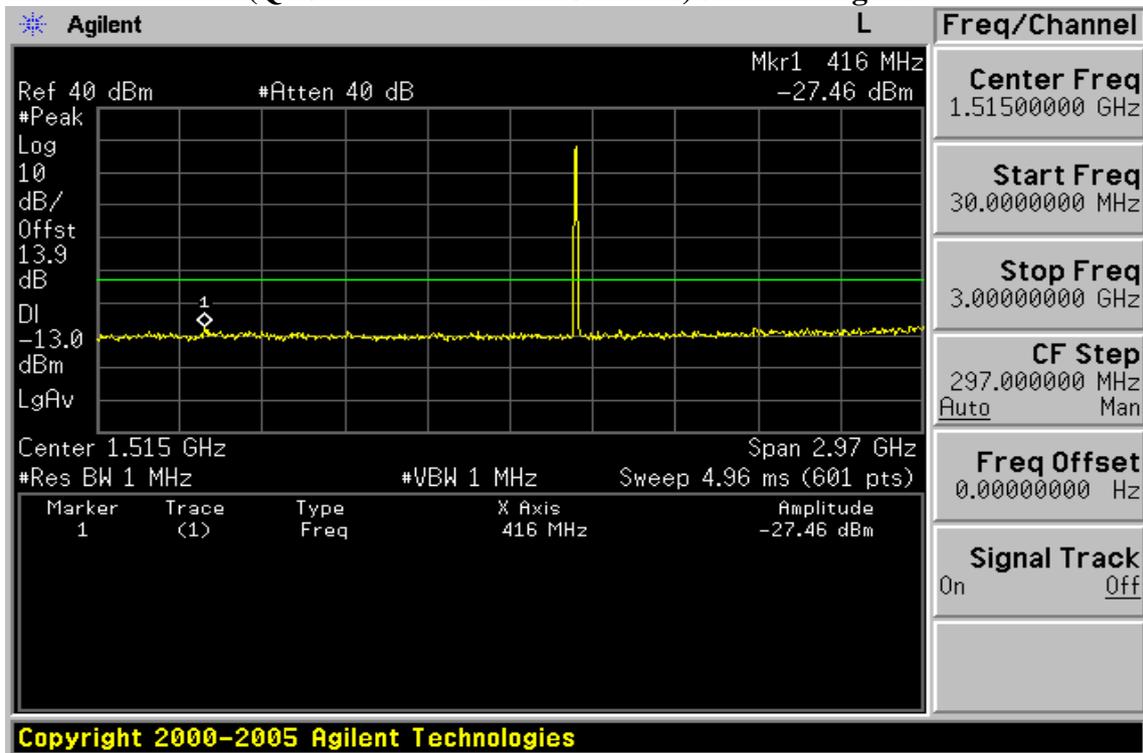
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**Out of Band emission at antenna terminals-5MHz BW LTE-Band 4  
(QPSK RB Number: 1 Offset: 0)Channel Highest**



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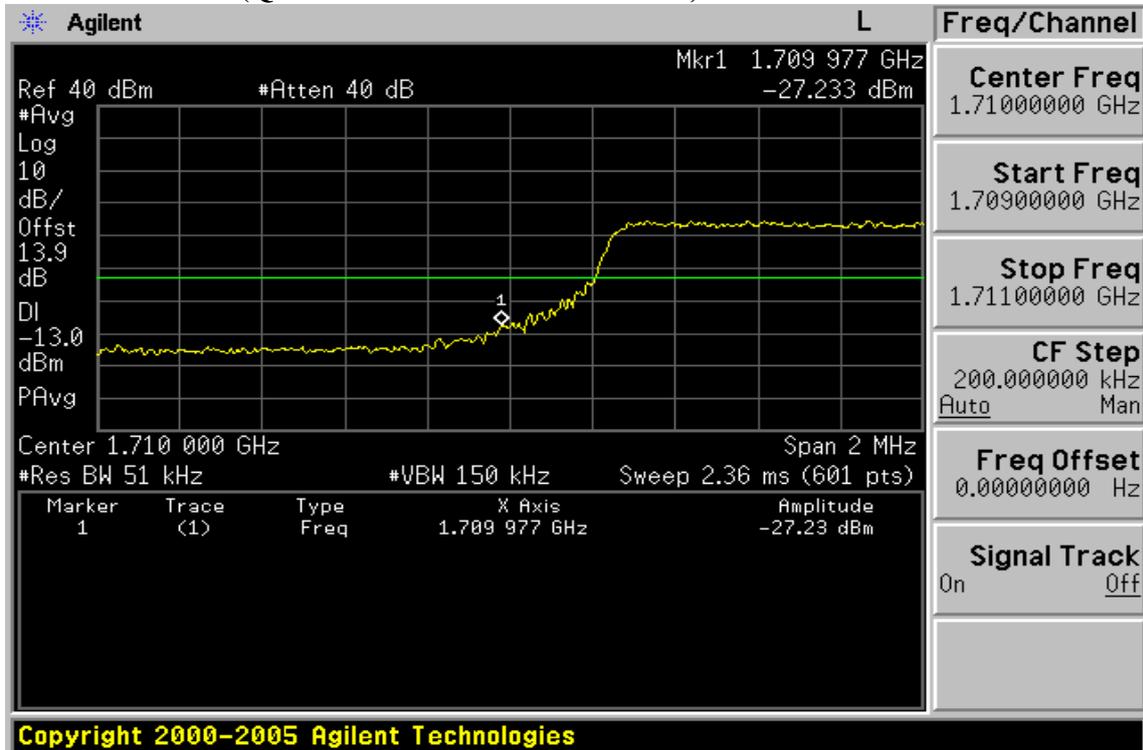
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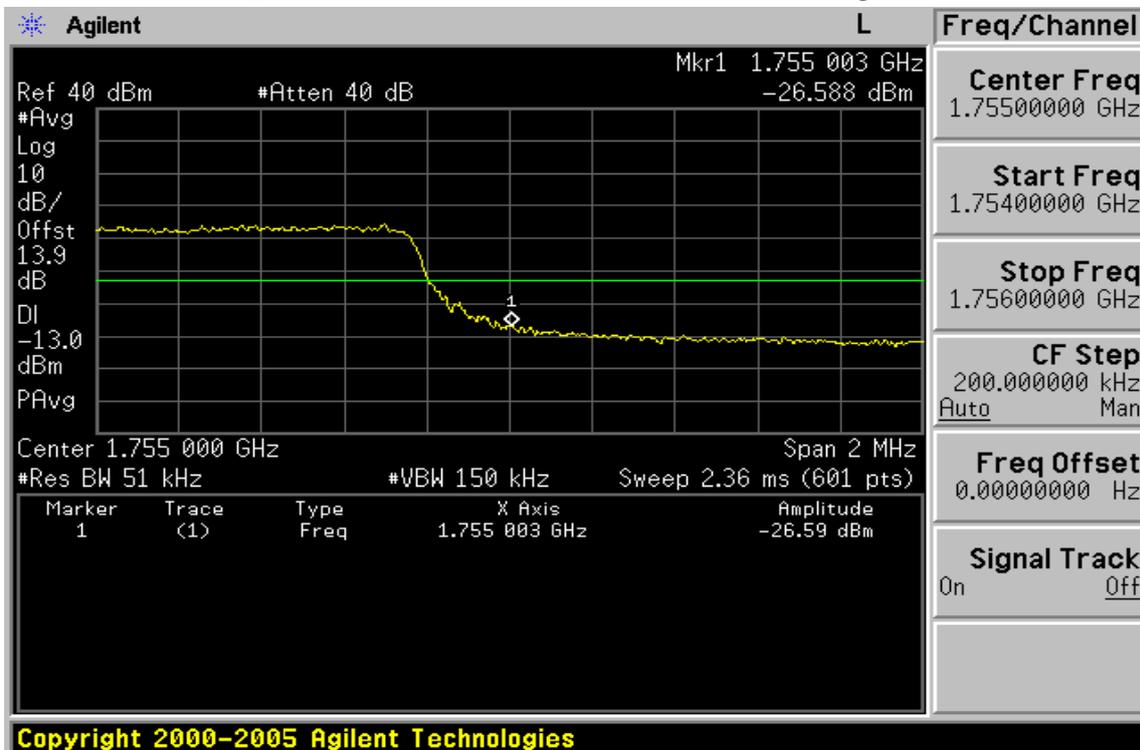
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**Band edge emission at antenna terminals –5MHz BW LTE-Band 4  
(QPSK RB Number: 25 Offset: 0) Channel Lowest**



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



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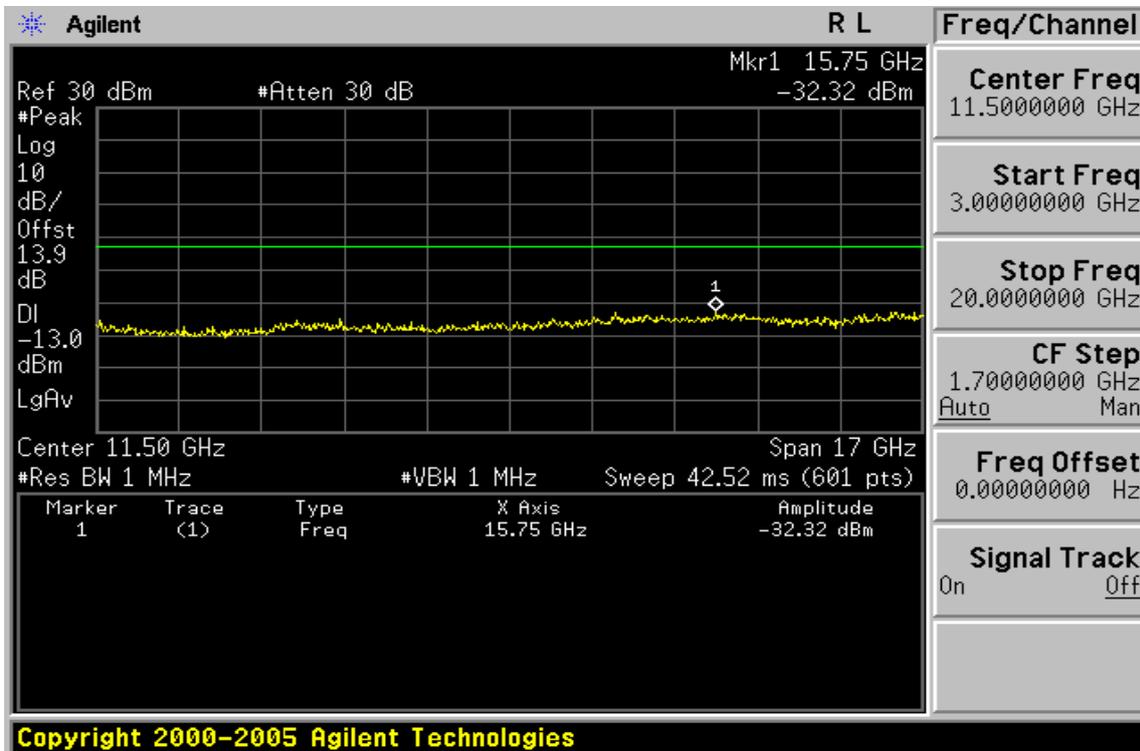
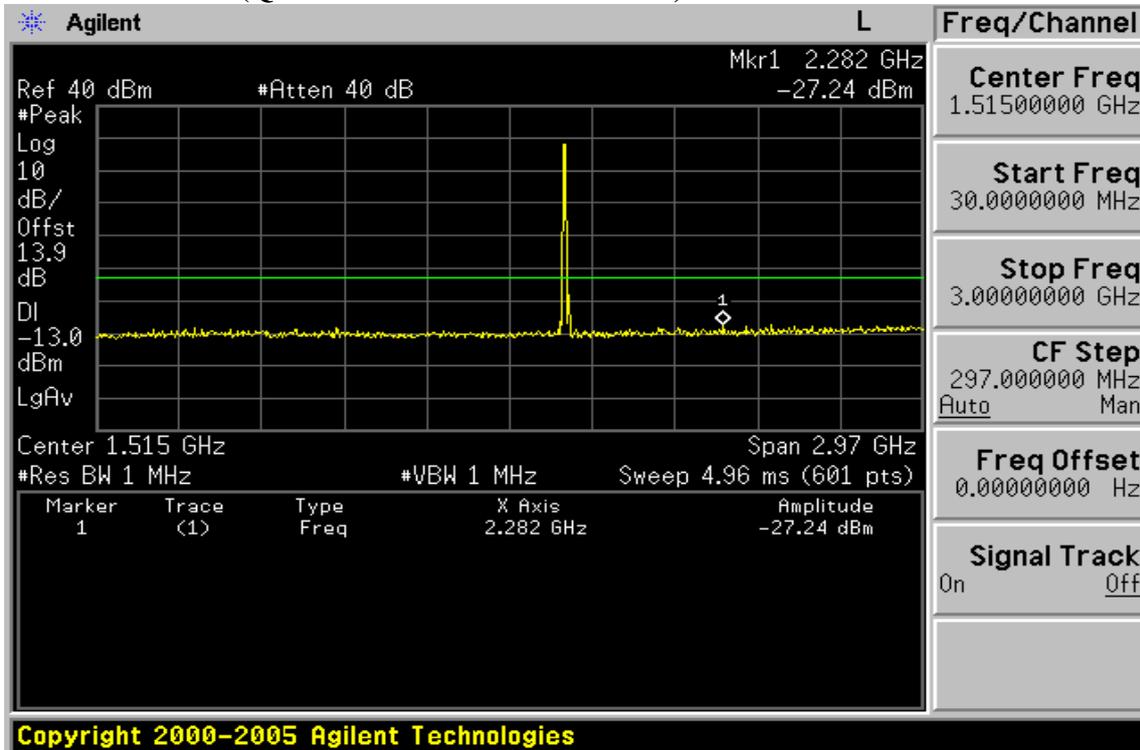
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**Out of Band emission at antenna terminals–10MHz BW LTE-Band 4  
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



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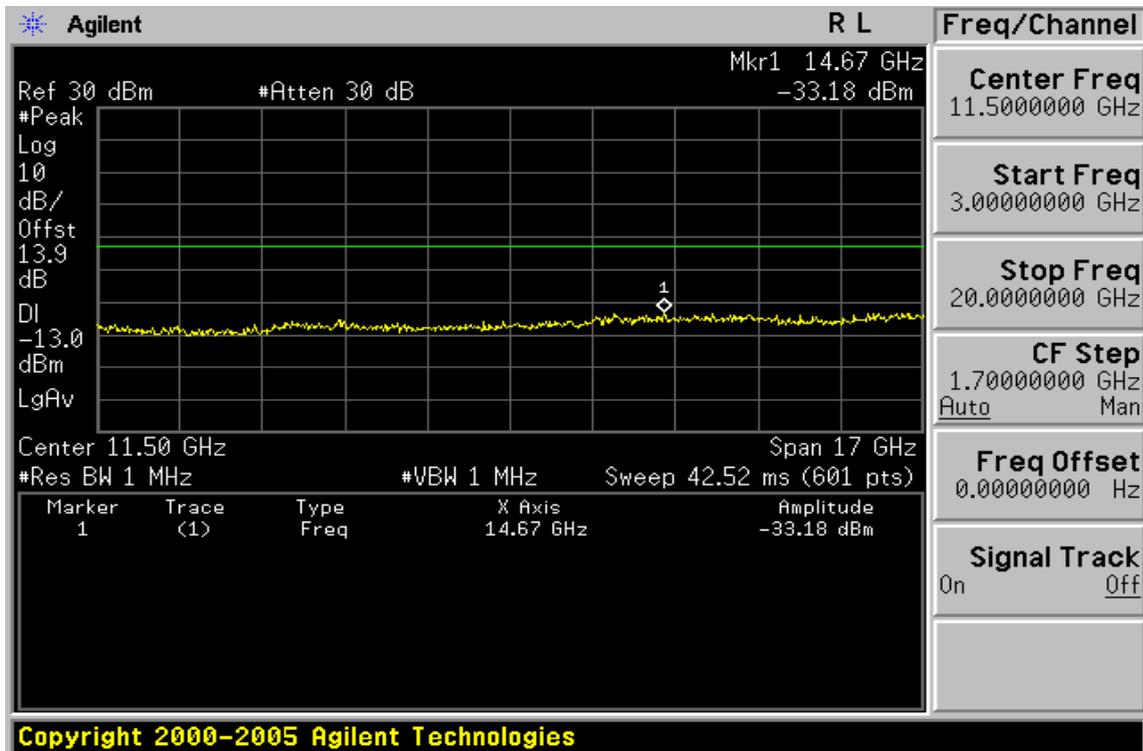
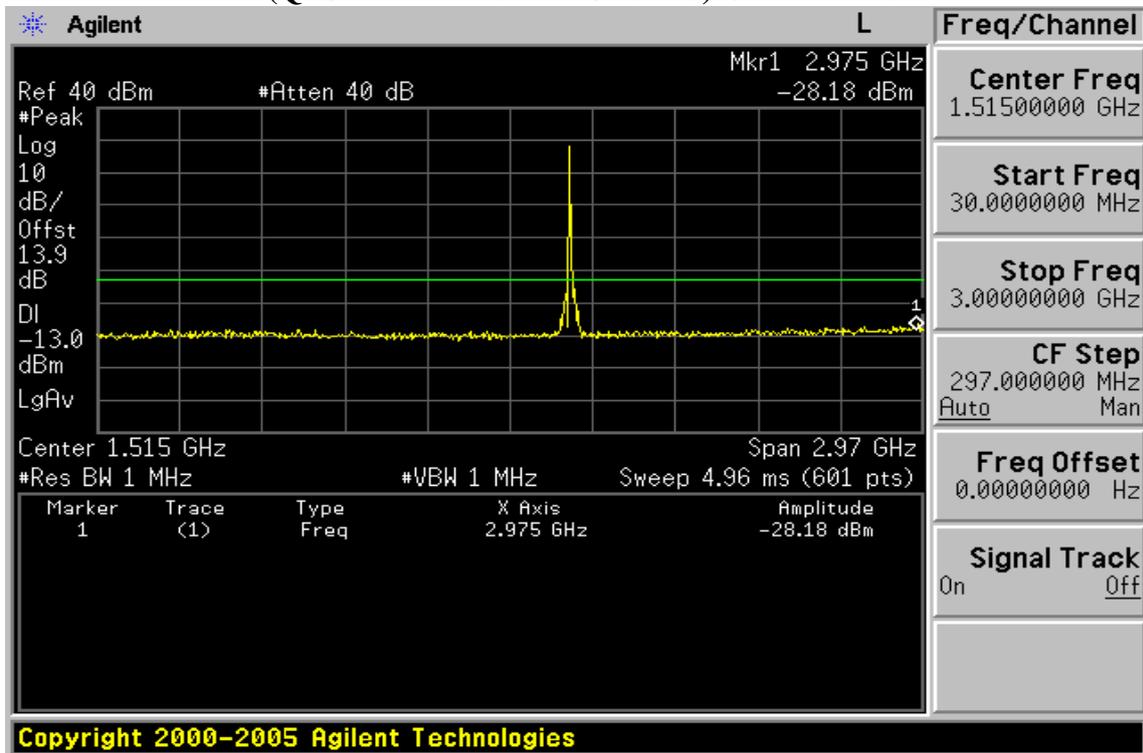
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**Out of Band emission at antenna terminals –10MHz BW LTE-Band 4  
 (QPSK RB Number: 1 Offset: 0) Channel Mid**



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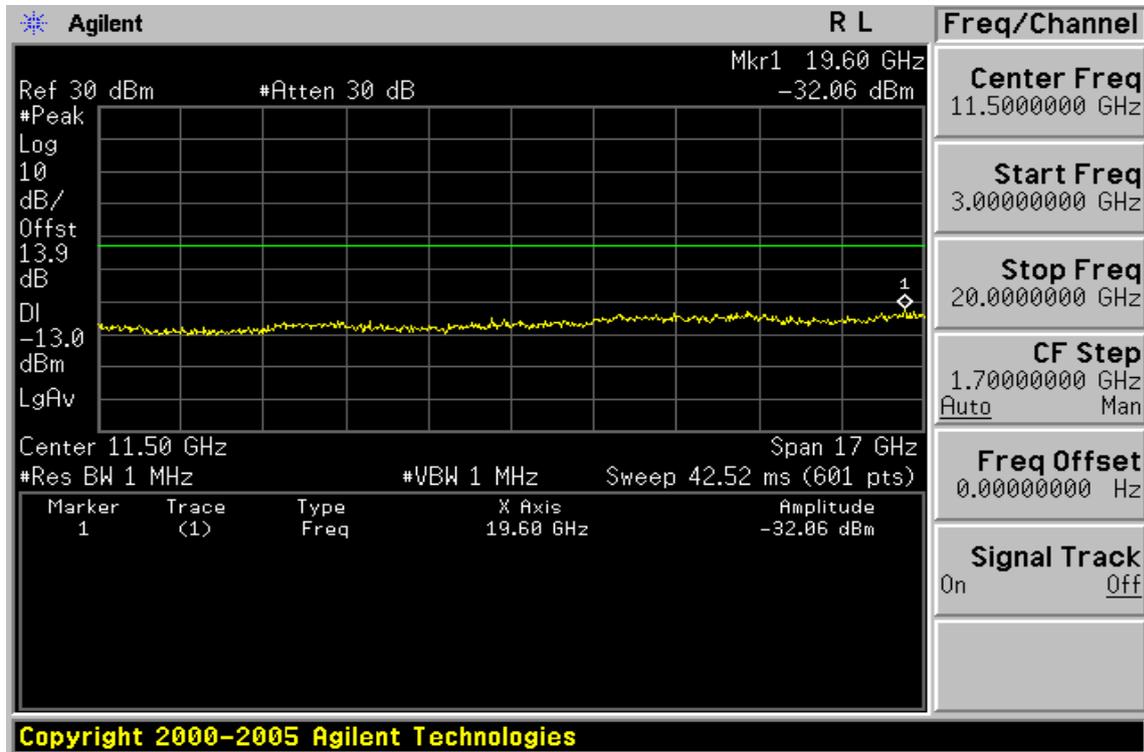
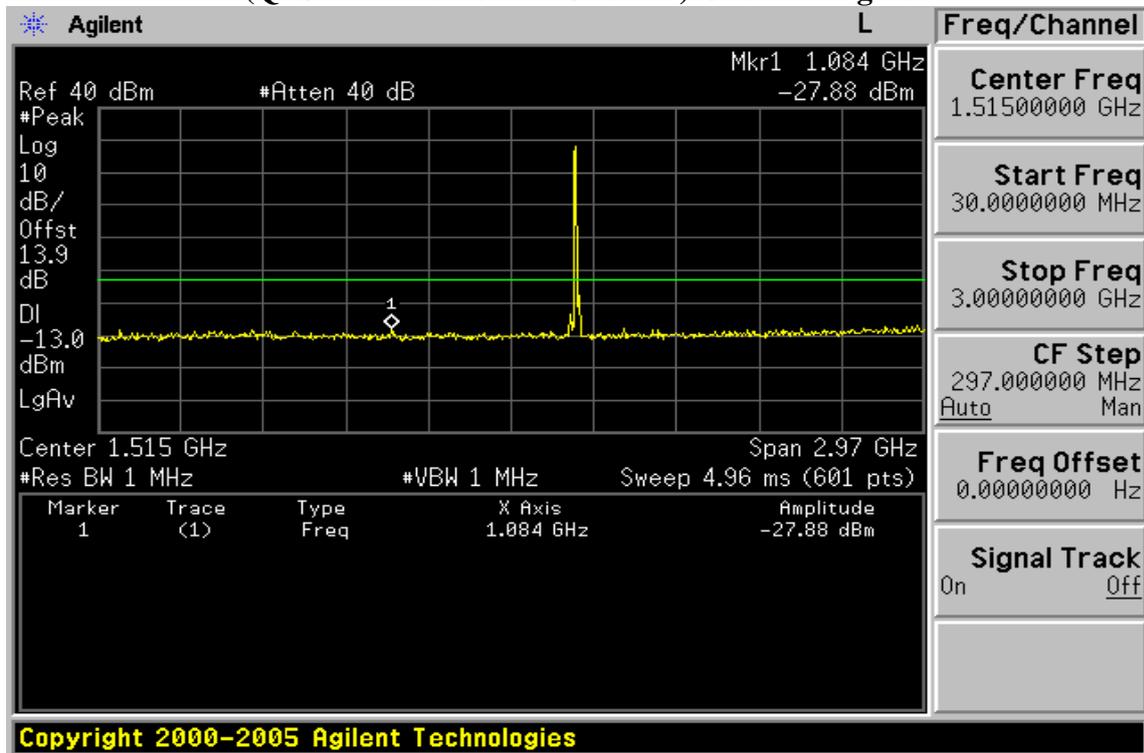
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**Out of Band emission at antenna terminals–10MHz BW LTE-Band 4  
(QPSK RB Number: 1 Offset: 0) Channel Highest**



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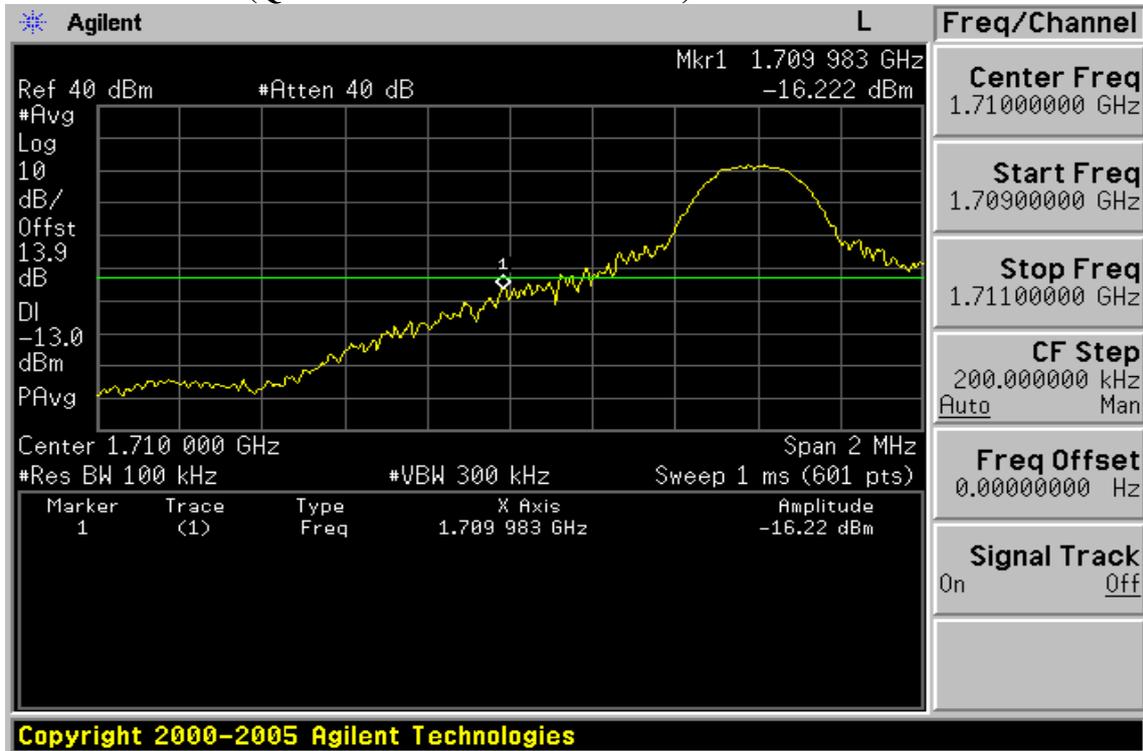
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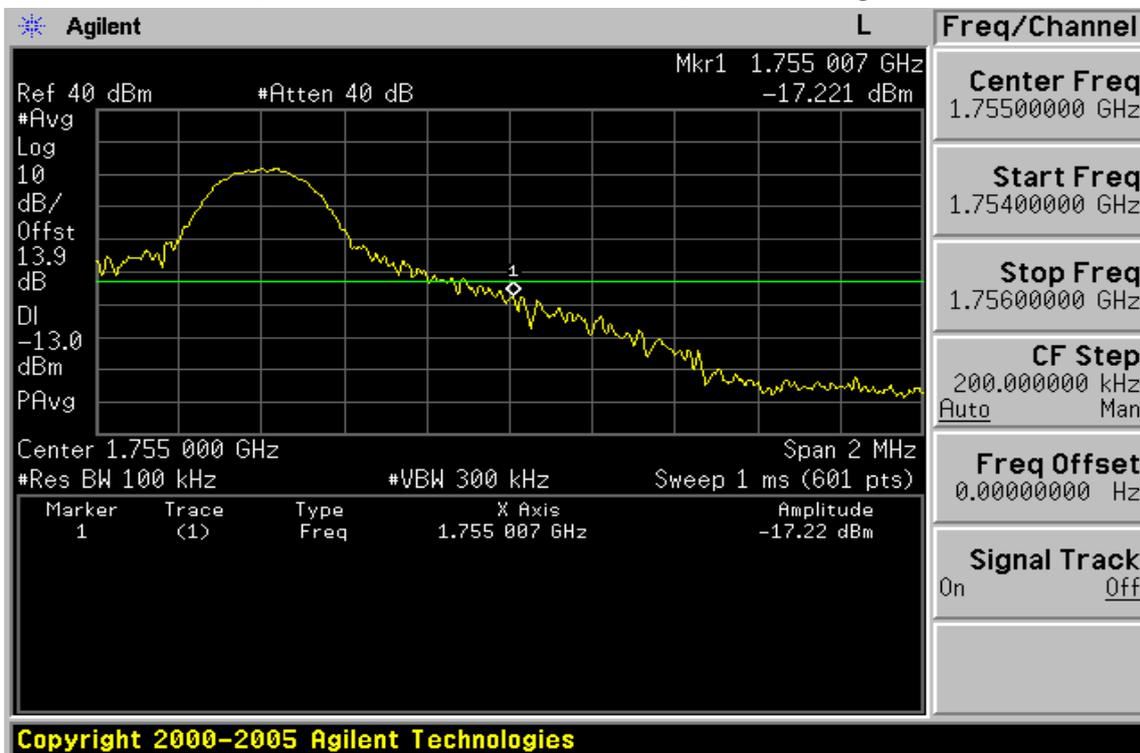
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**Band edge emission at antenna terminals –10MHz BW LTE-Band 4  
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



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



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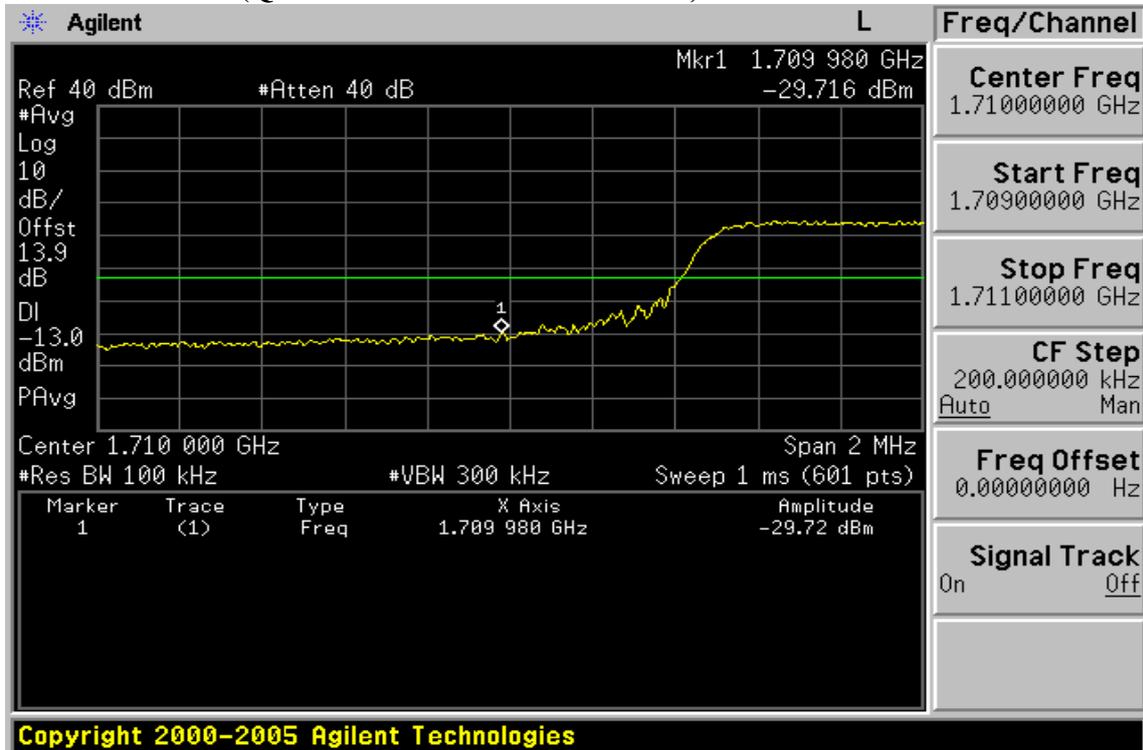
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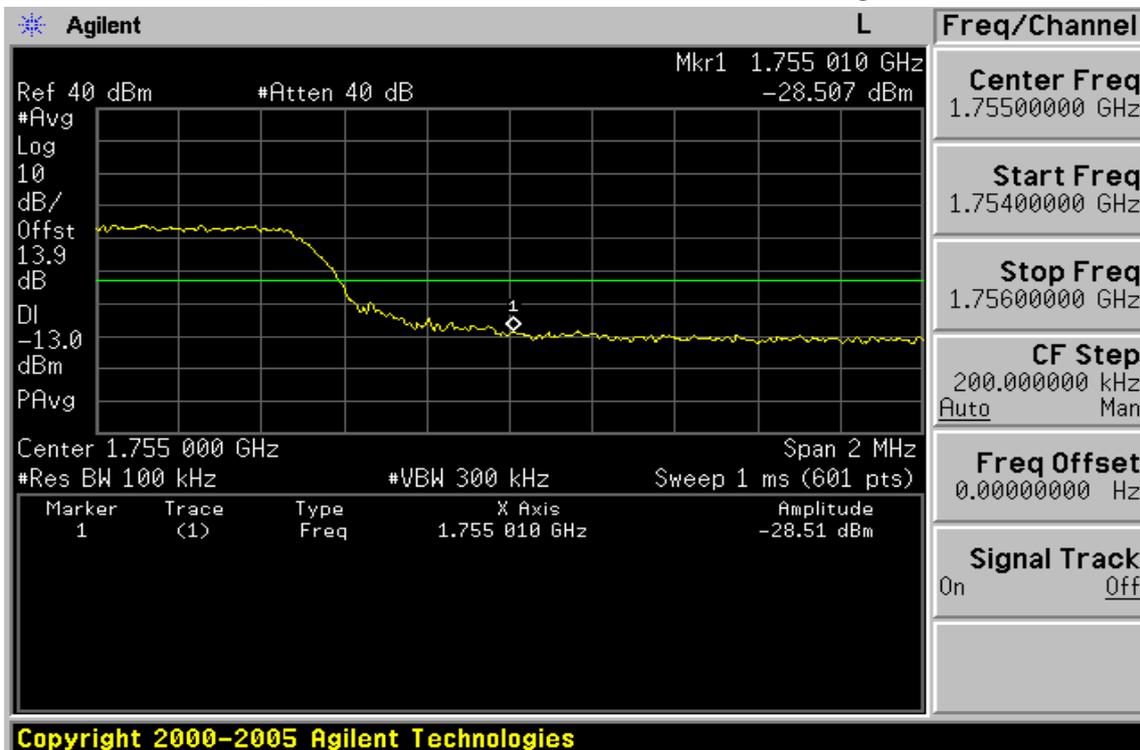
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**Band edge emission at antenna terminals –10MHz BW LTE-Band 4  
(QPSK RB Number: 50 Offset: 0) Channel Lowest**



**Figure 9-88: Band edge emission at antenna terminals –10MHz BW LTE-Band 4  
(QPSK RB Number: 50 Offset: 0) Channel Highest**



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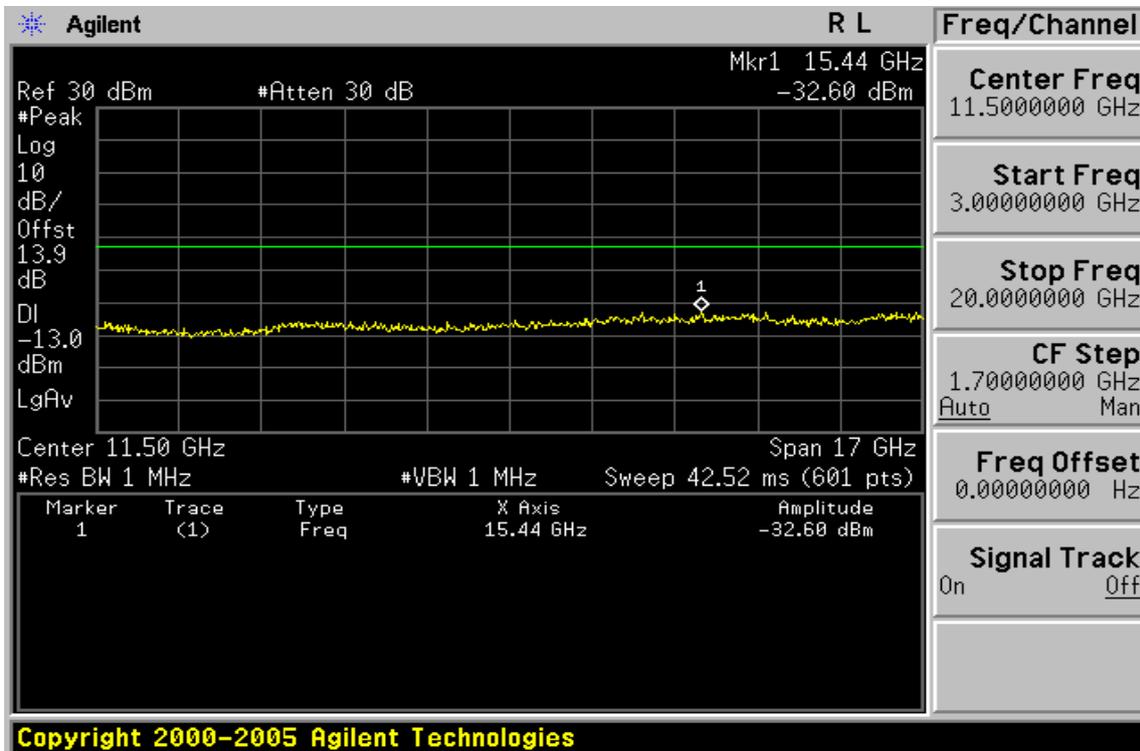
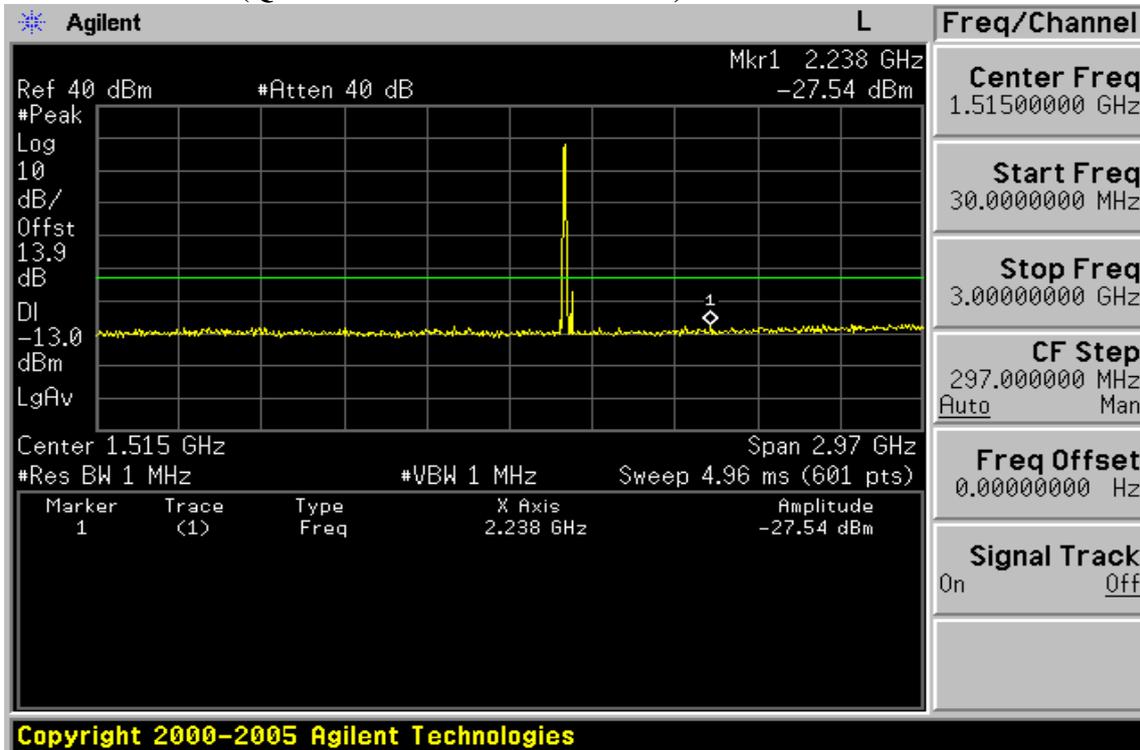
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**Out of Band emission at antenna terminals–15MHz BW LTE-Band 4  
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



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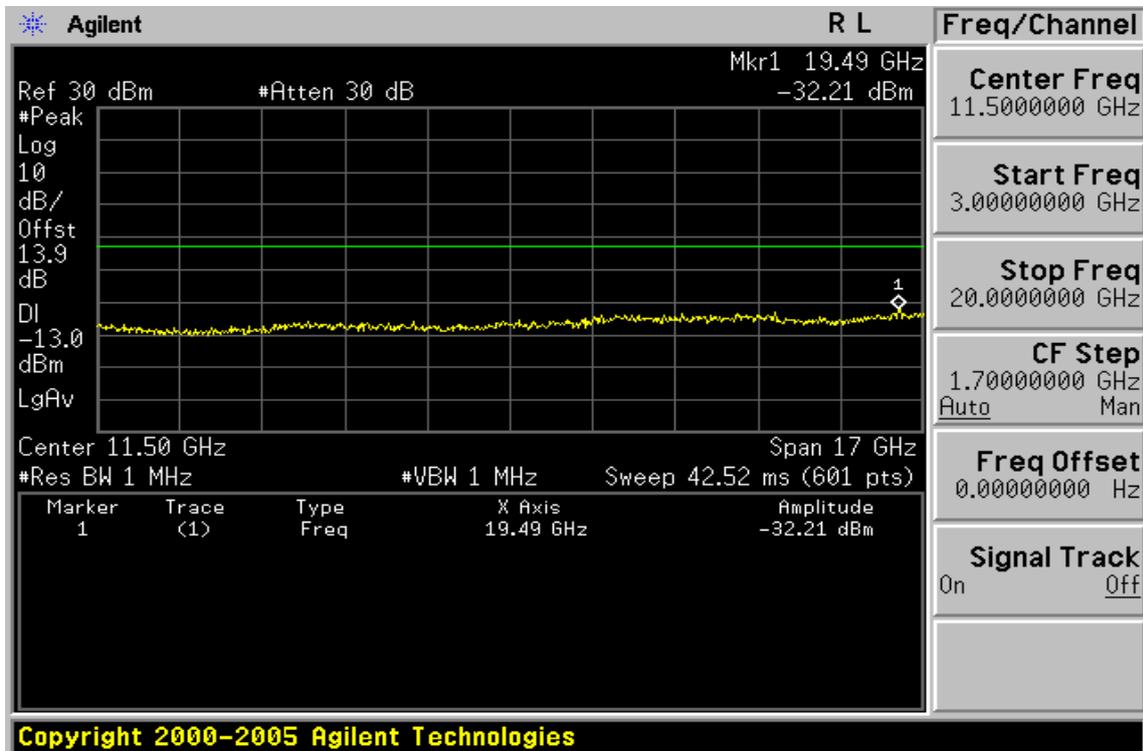
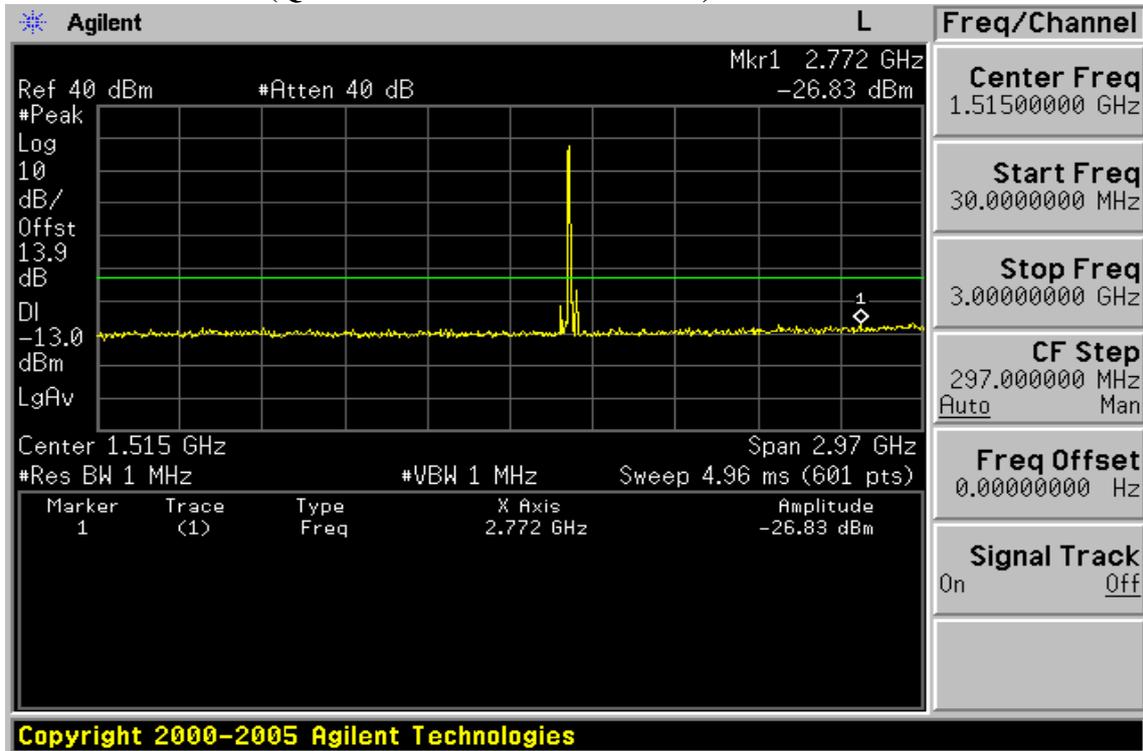
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**Out of Band emission at antenna terminals –15MHz BW LTE-Band 4  
(QPSK RB Number: 1 Offset: 0) Channel Mid**



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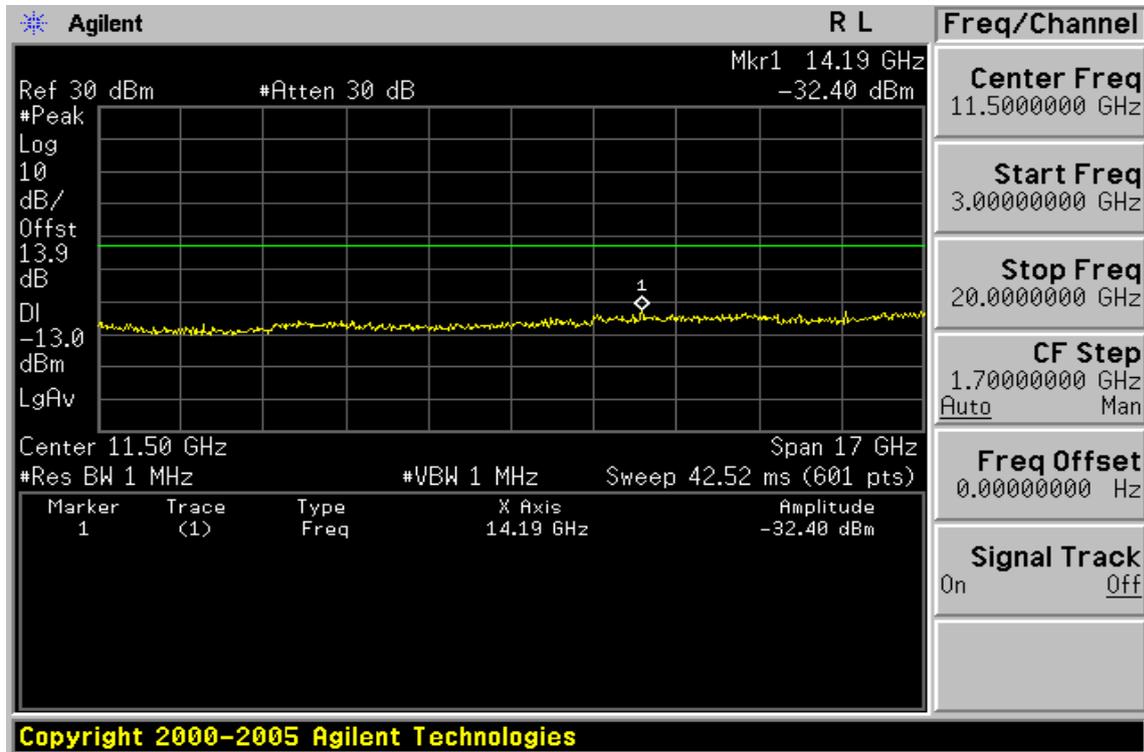
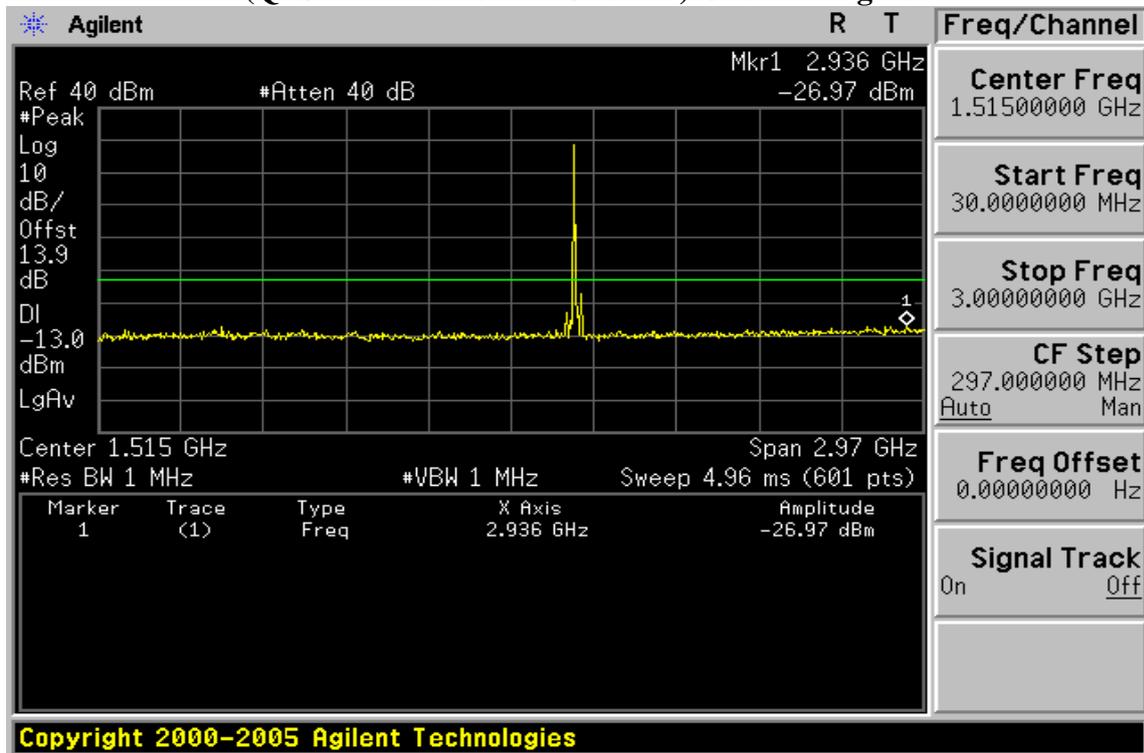
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**Out of Band emission at antenna terminals–15MHz BW LTE-Band 4  
(QPSK RB Number: 1 Offset: 0) Channel Highest**



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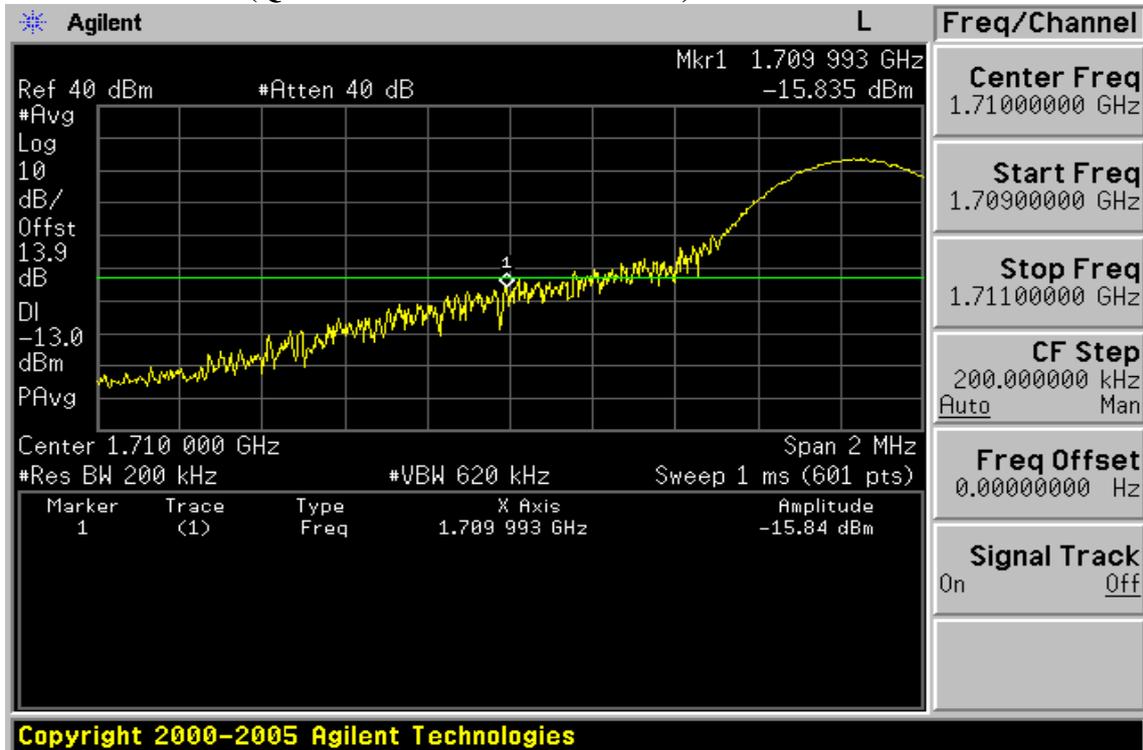
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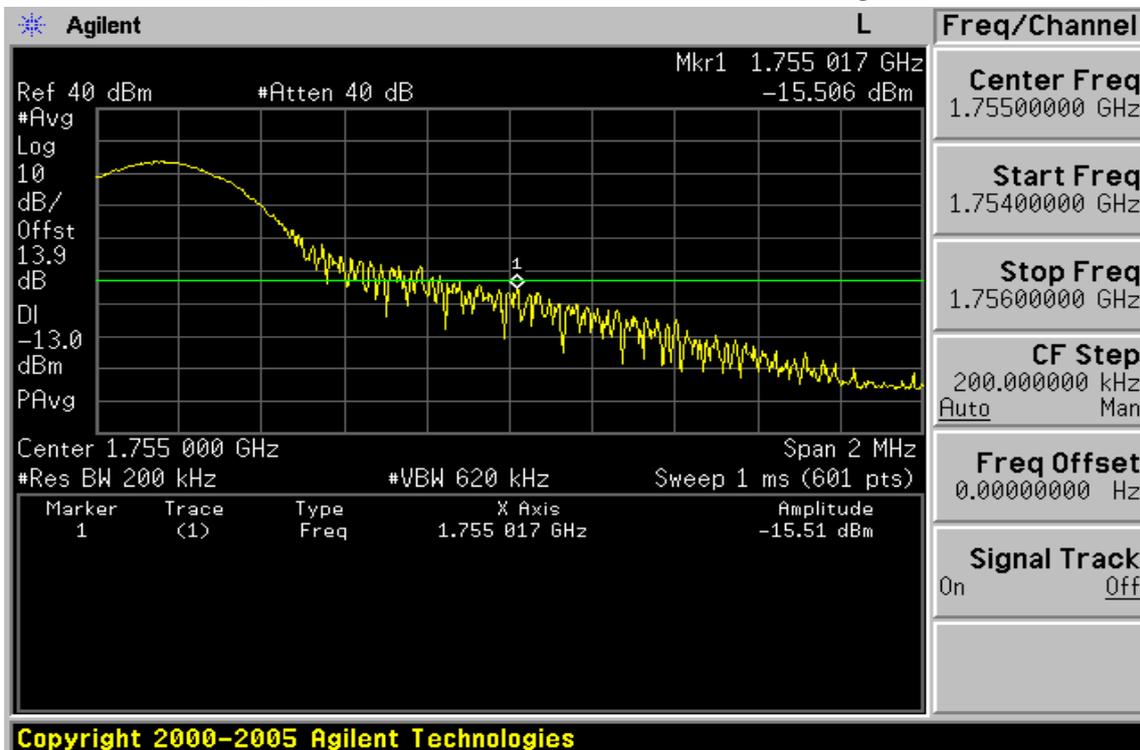
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**Band edge emission at antenna terminals –15MHz BW LTE-Band 4  
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



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



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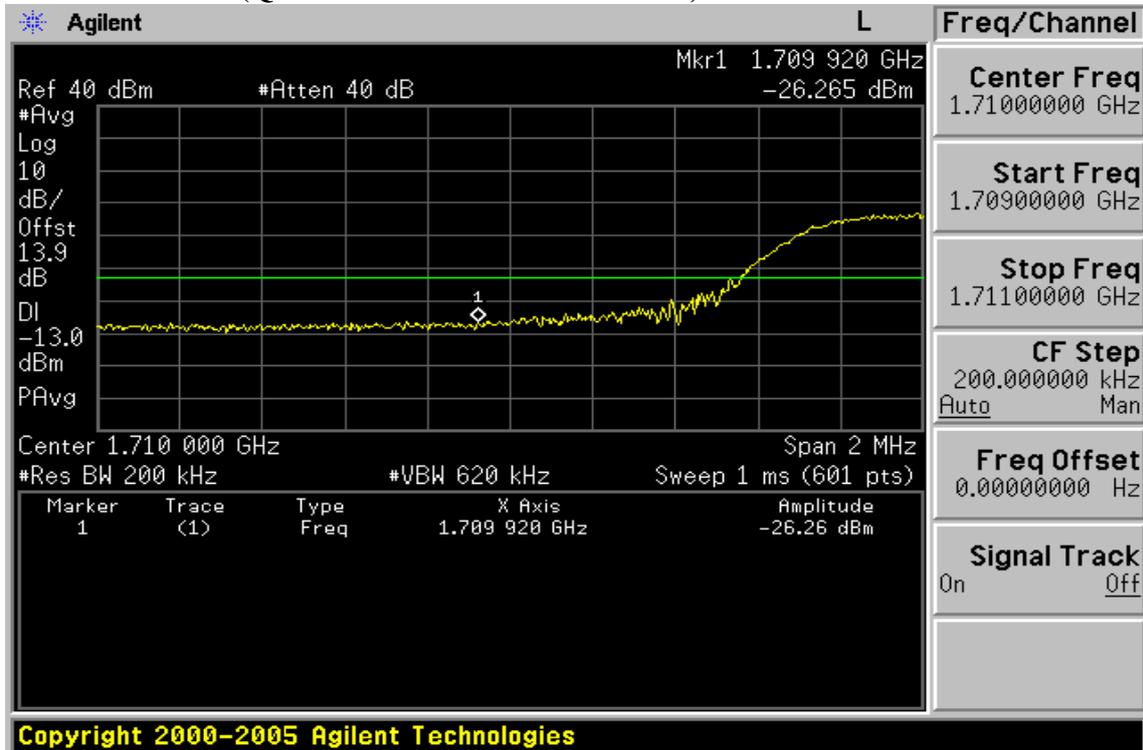
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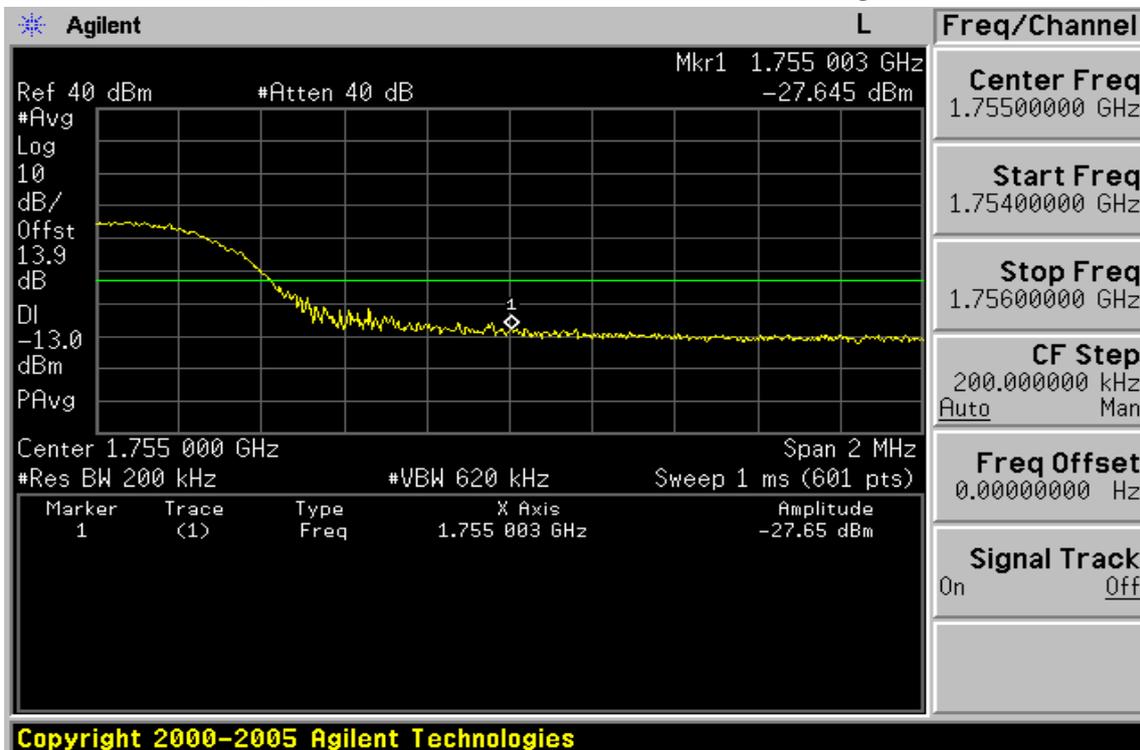
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**Band edge emission at antenna terminals –15MHz BW LTE-Band 4  
(QPSK RB Number: 75 Offset: 0) Channel Lowest**



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



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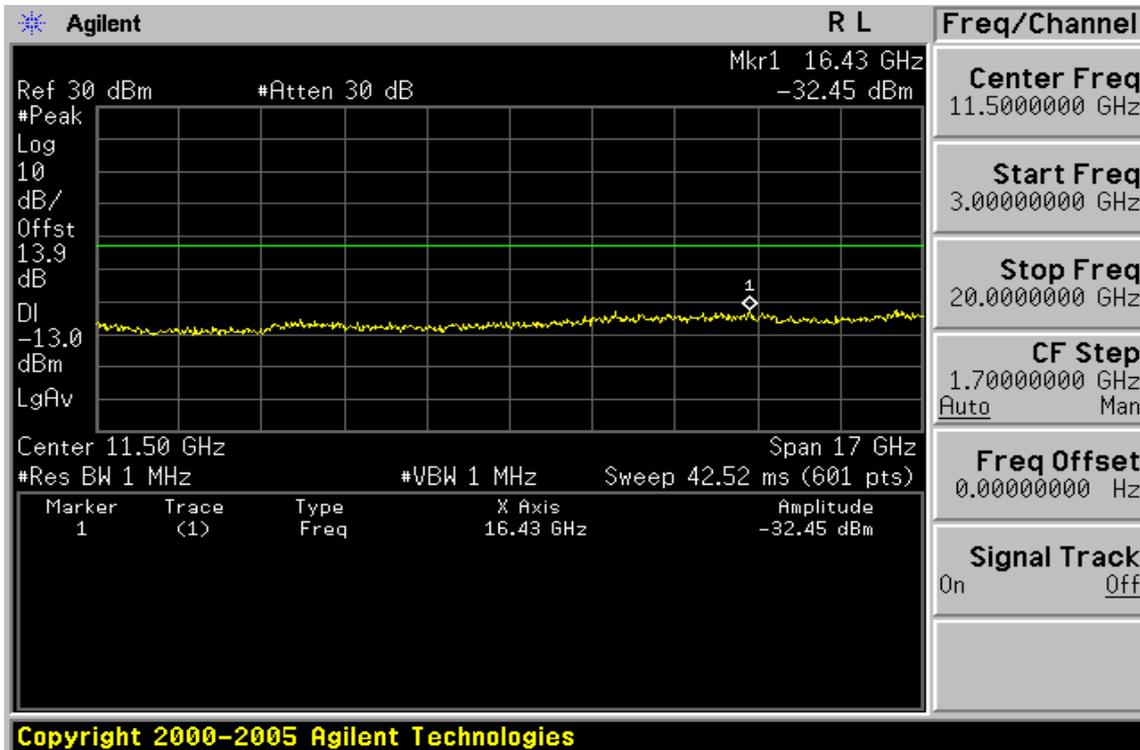
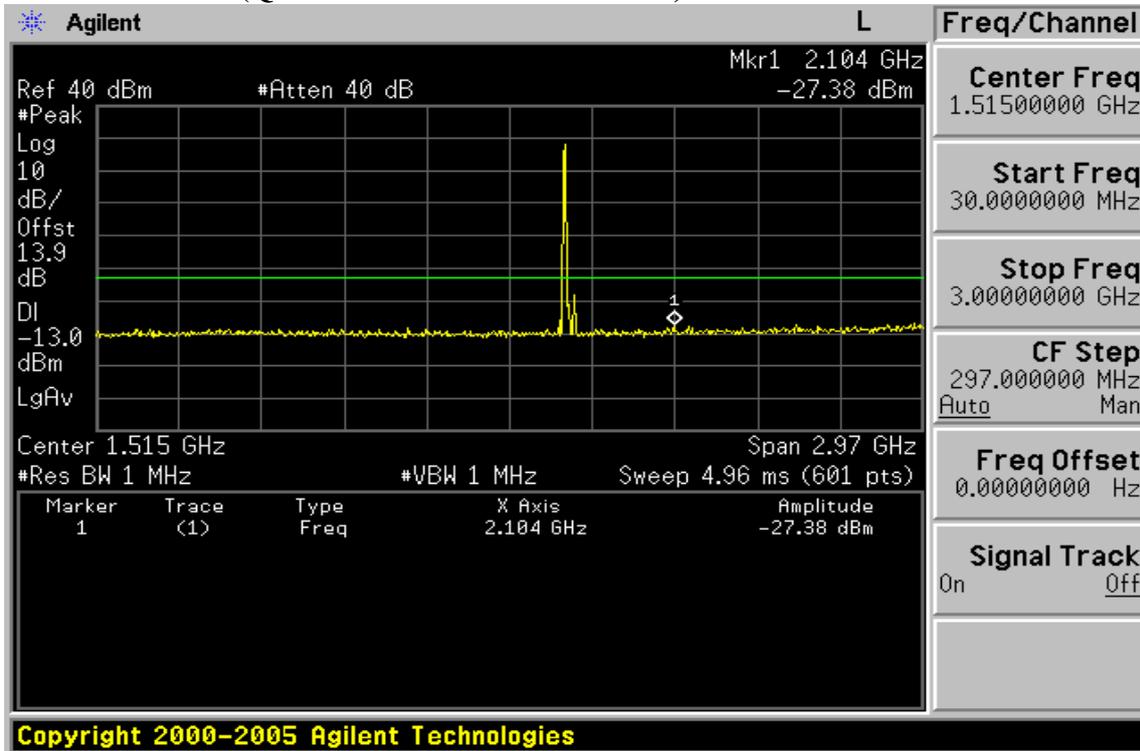
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**Out of Band emission at antenna terminals–20MHz BW LTE-Band 4  
 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



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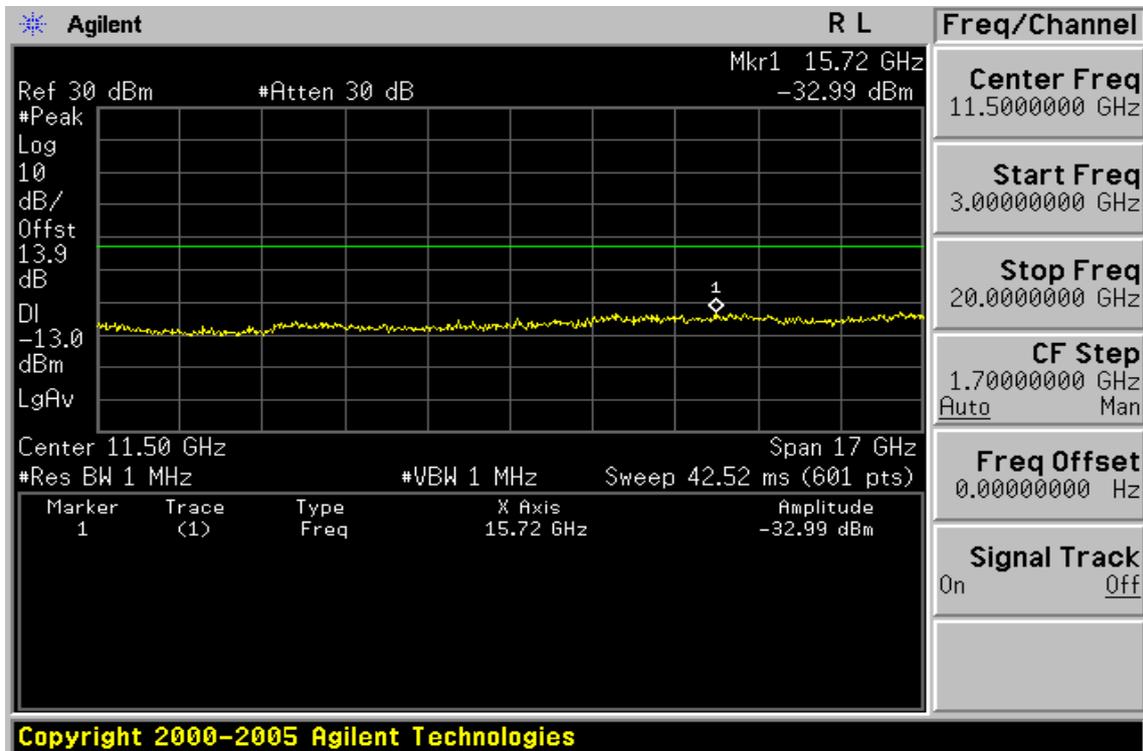
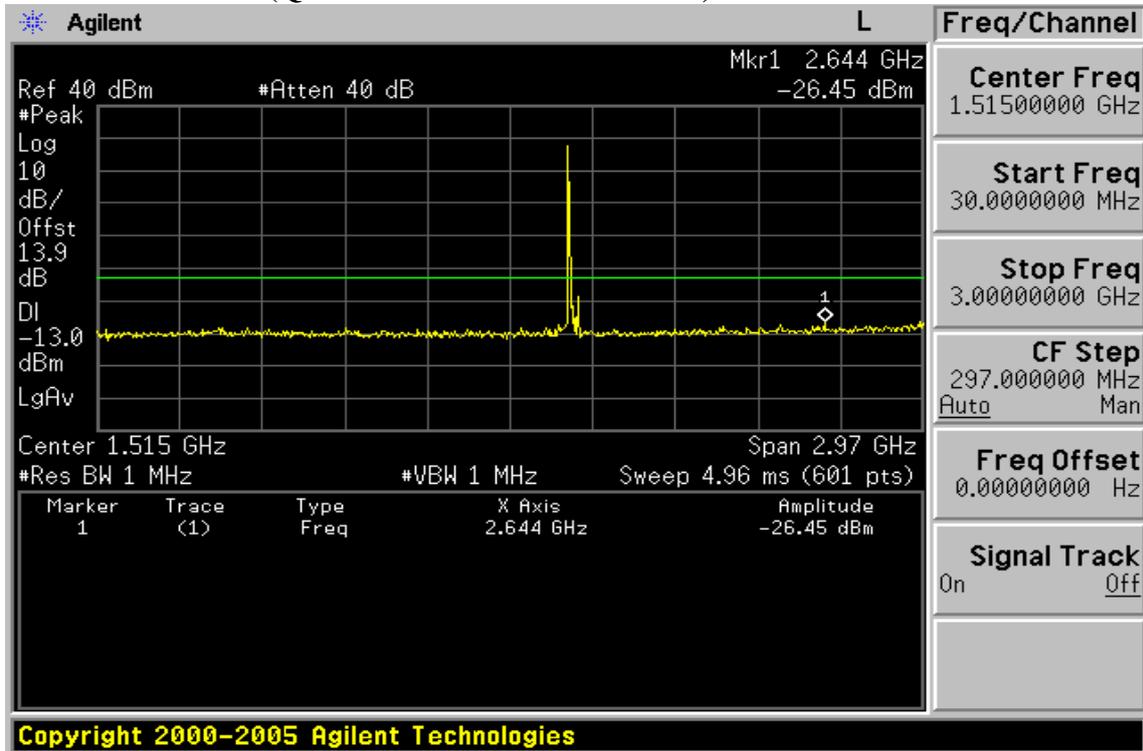
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**Out of Band emission at antenna terminals –20MHz BW LTE-Band 4  
(QPSK RB Number: 1 Offset: 0) Channel Mid**



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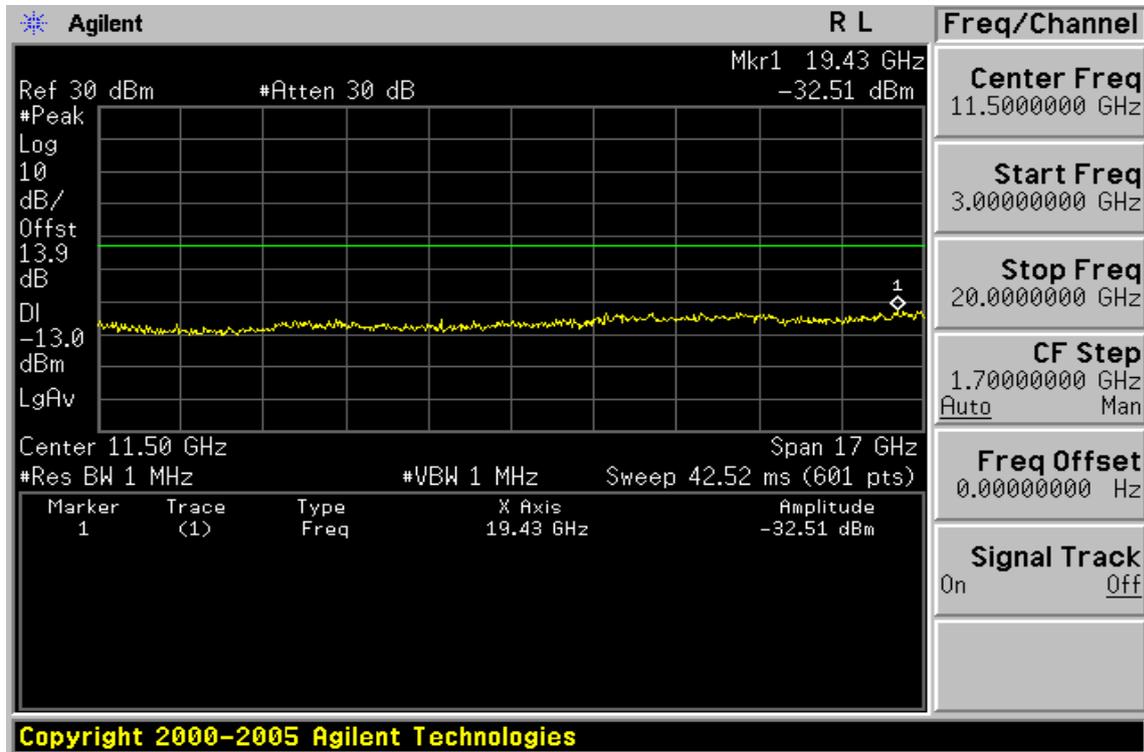
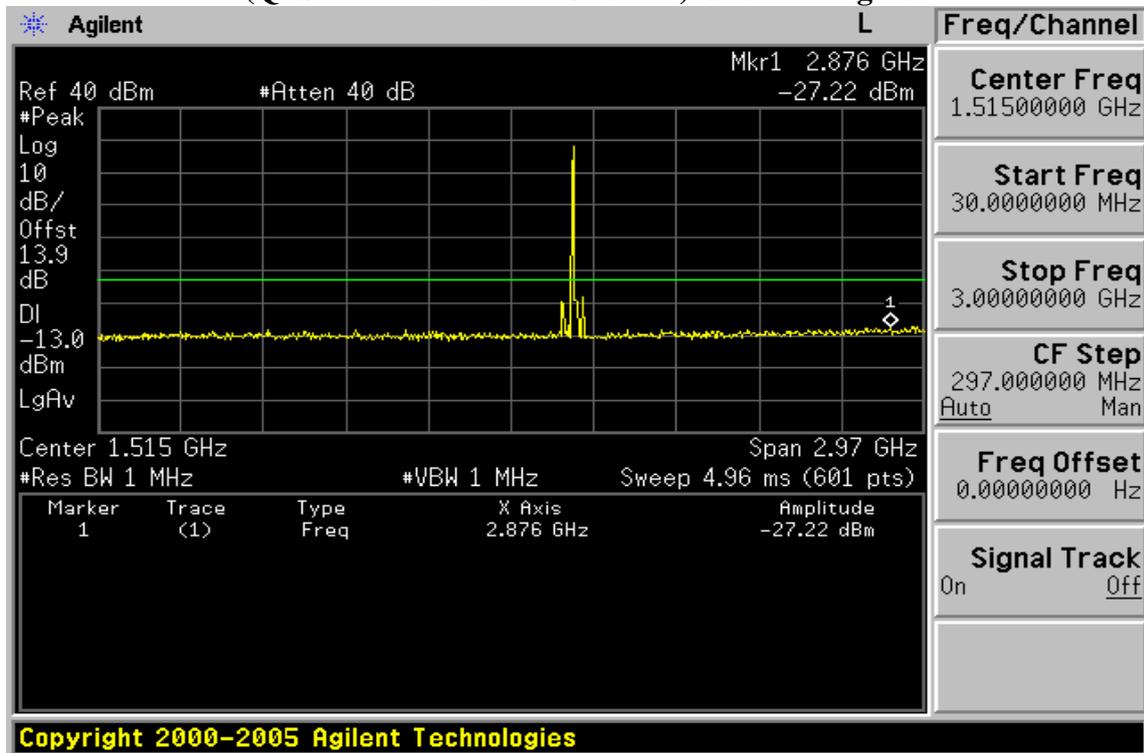
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**Out of Band emission at antenna terminals–20MHz BW LTE-Band 4  
(QPSK RB Number: 1 Offset: 0) Channel Highest**



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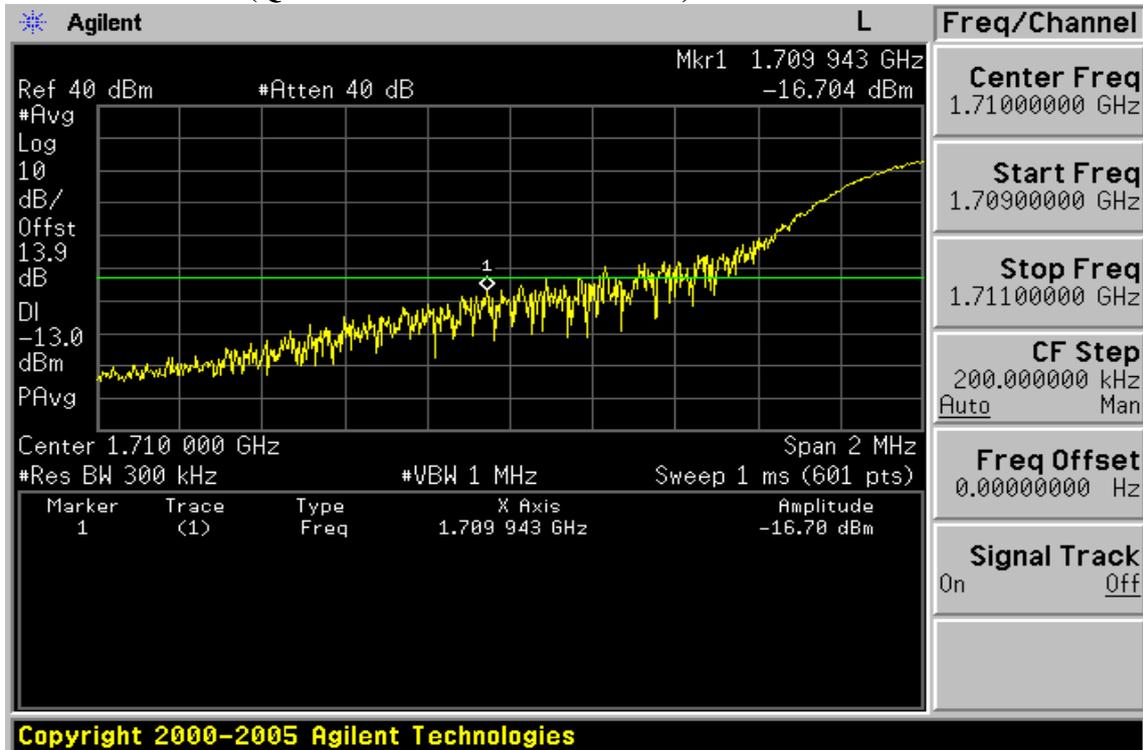
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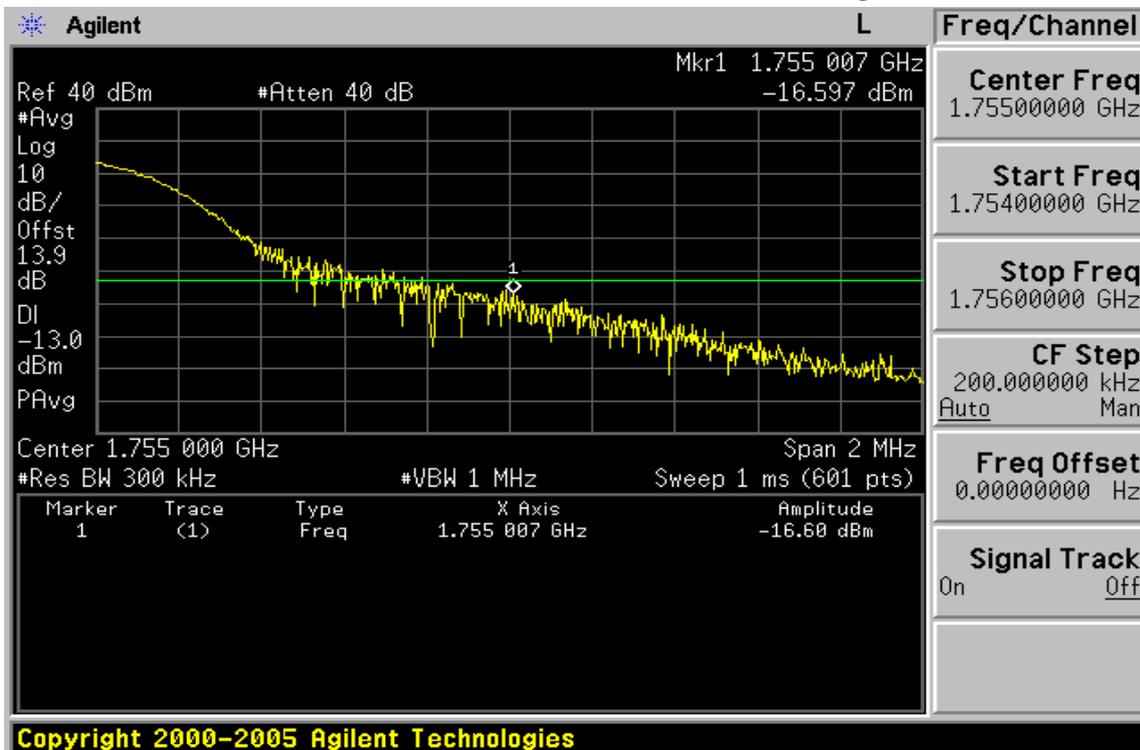
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**Band edge emission at antenna terminals –20MHz BW LTE-Band 4  
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



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



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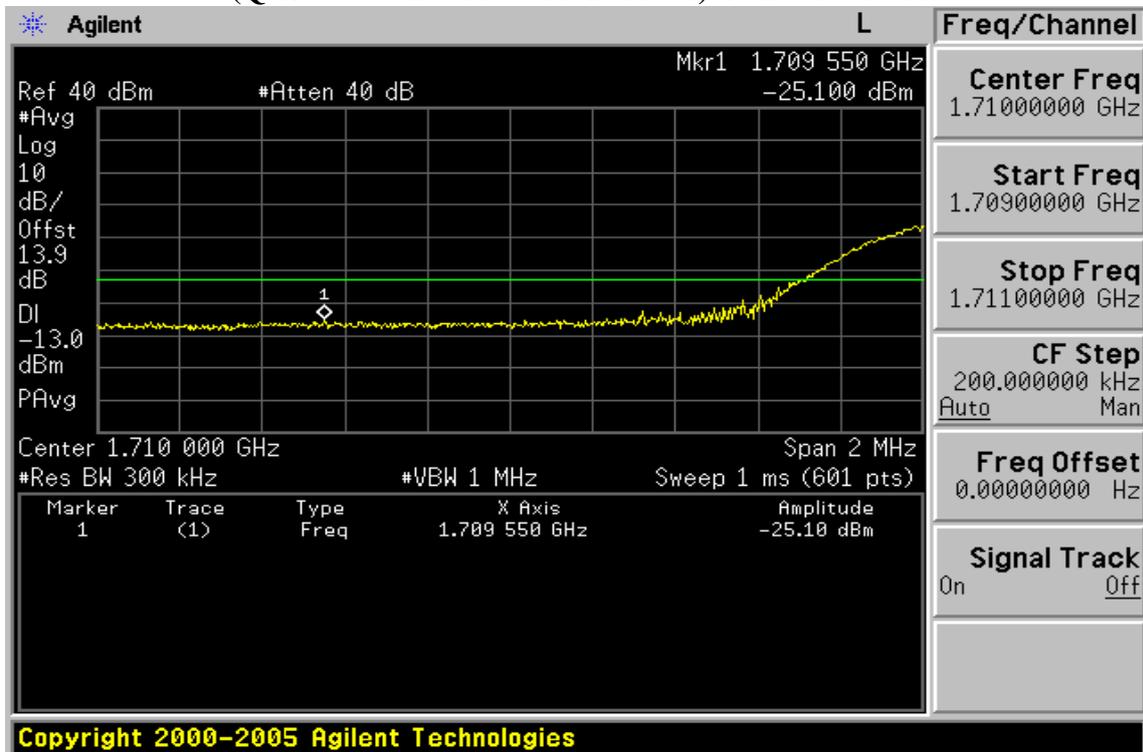
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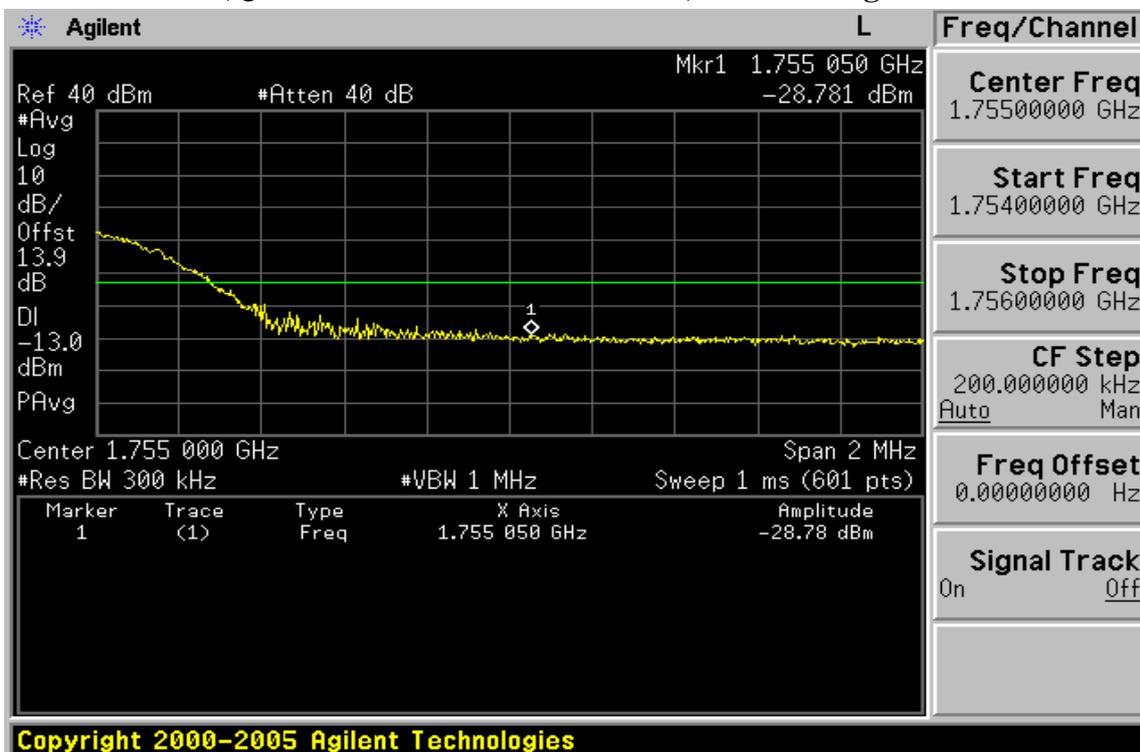
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**Band edge emission at antenna terminals –20MHz BW LTE-Band 4  
(QPSK RB Number: 100 Offset: 0) Channel Lowest**



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



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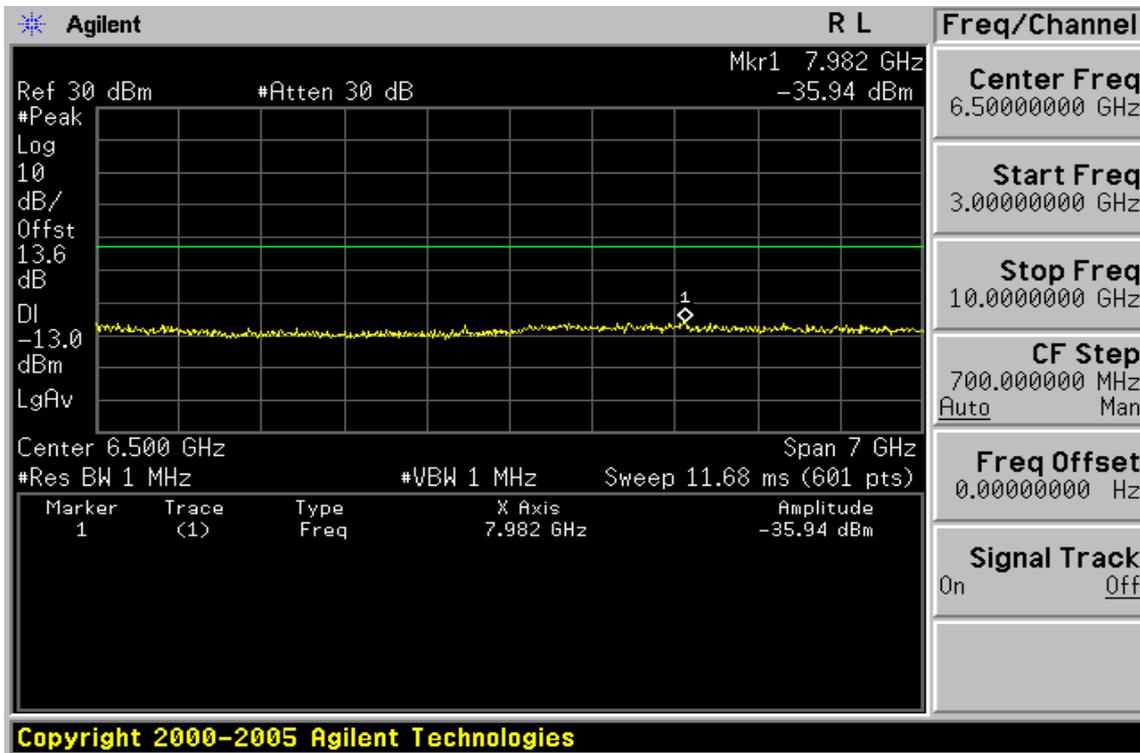
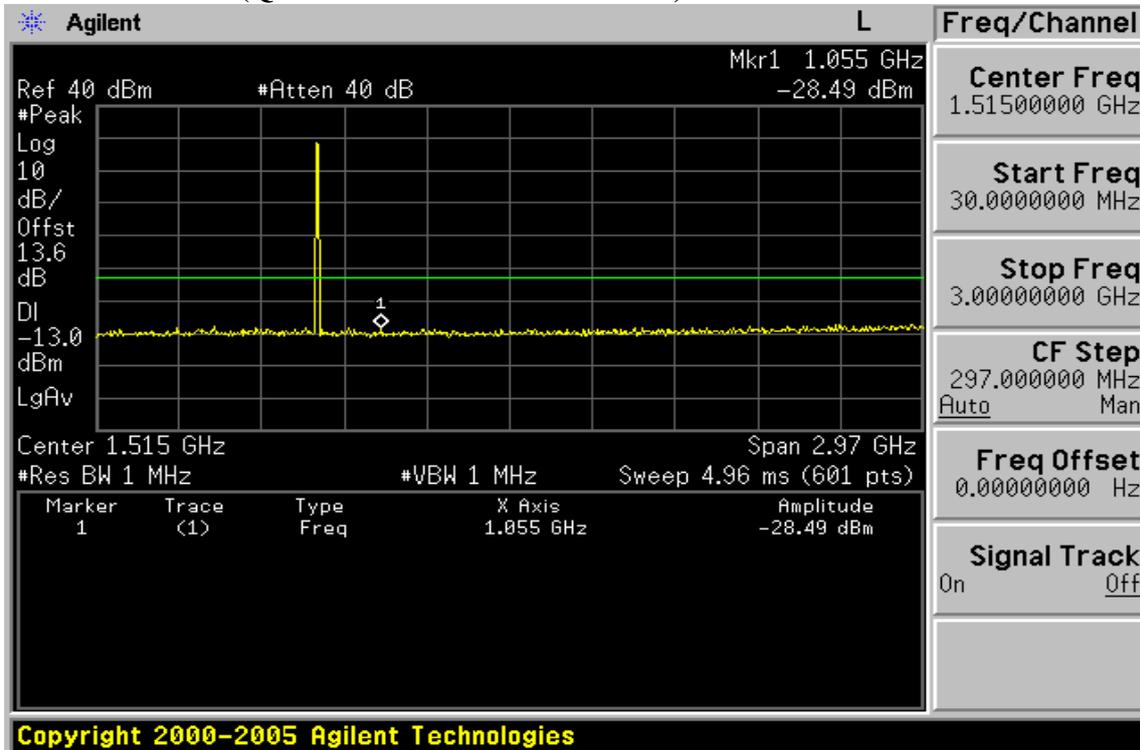
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**Out of Band emission at antenna terminals–1.4MHz BW LTE-Band 5  
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



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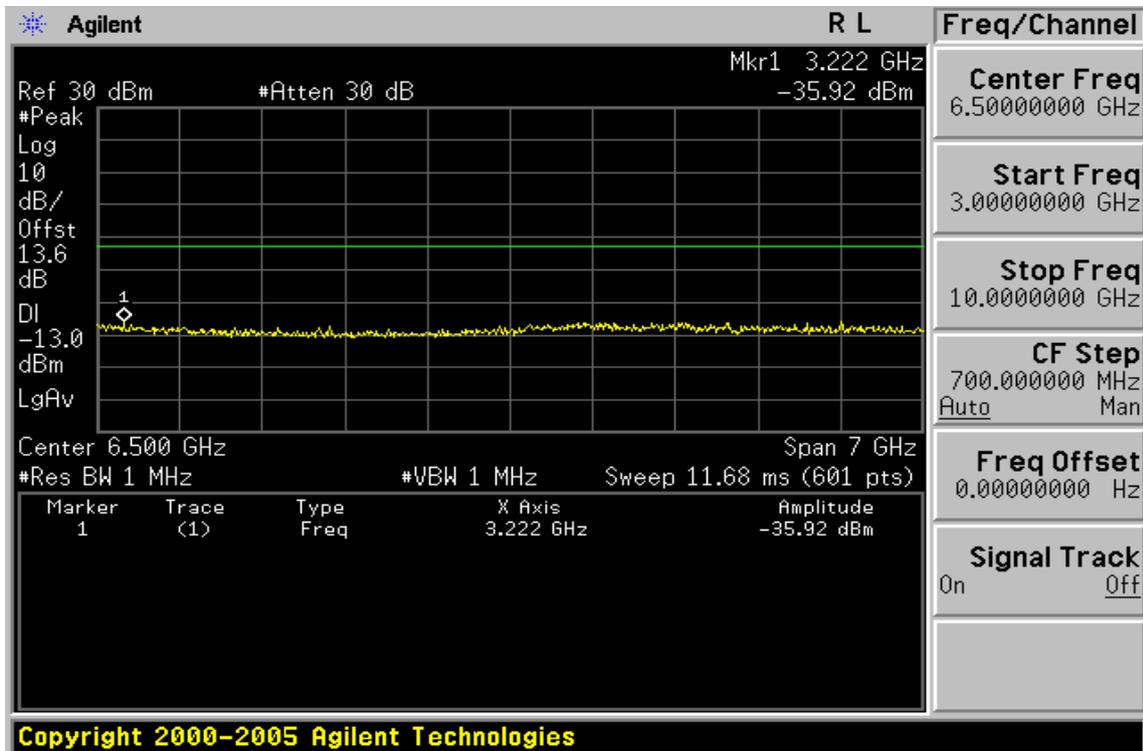
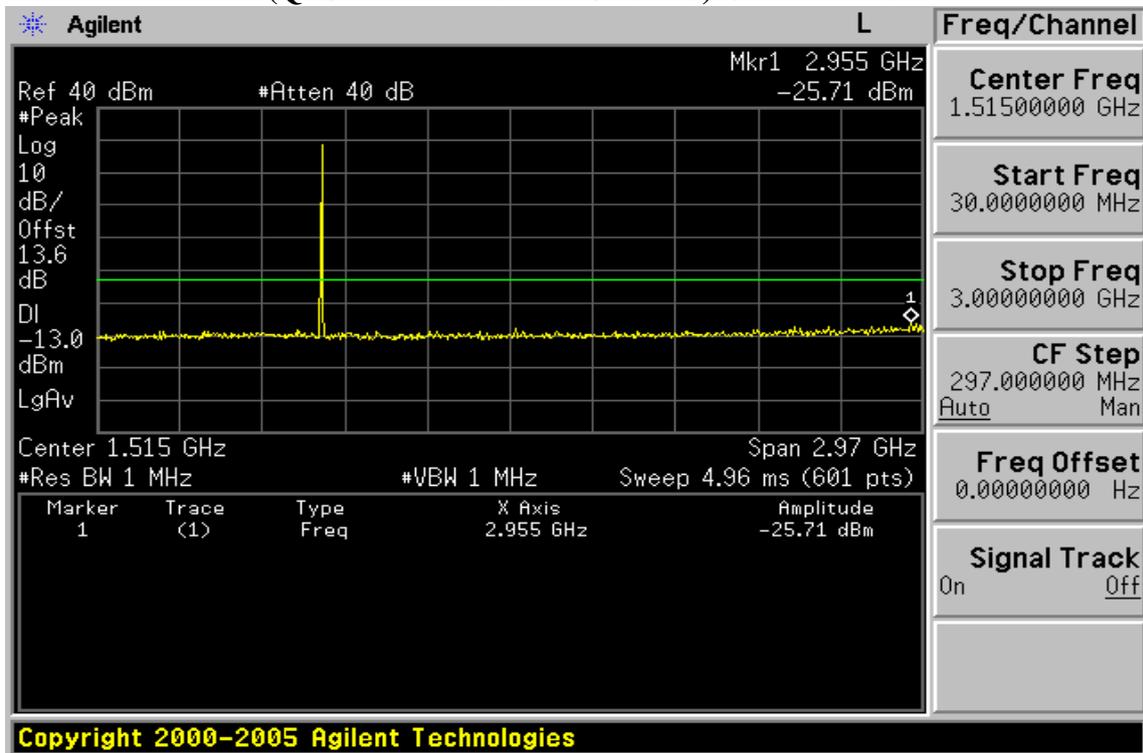
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**Out of Band emission at antenna terminals –1.4MHz BW LTE-Band 5  
 (QPSK RB Number: 1 Offset: 0) Channel Mid**



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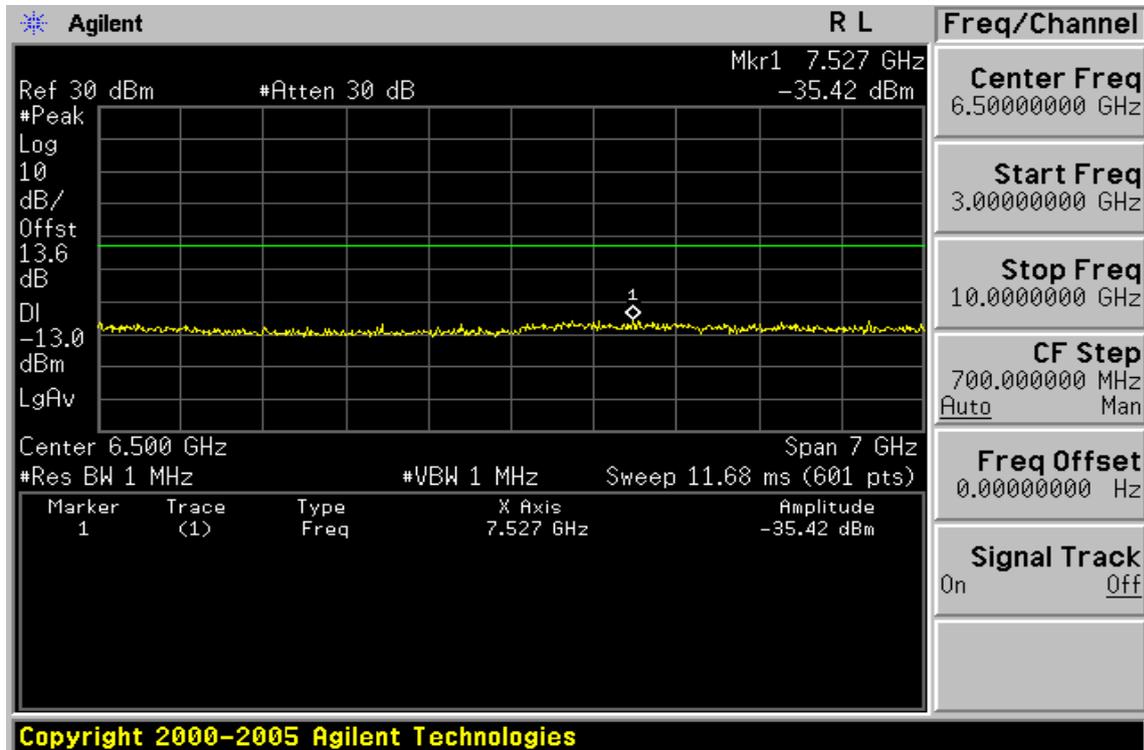
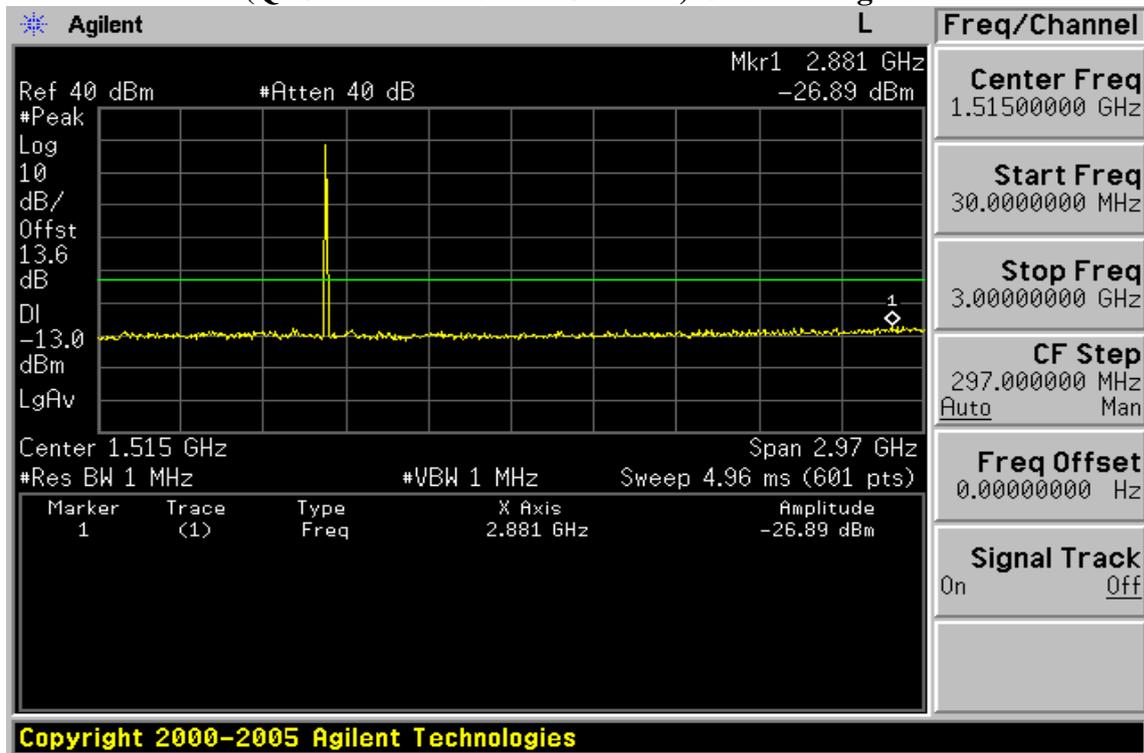
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**Out of Band emission at antenna terminals–1.4MHz BW LTE-Band 5  
(QPSK RB Number: 1 Offset: 0) Channel Highest**



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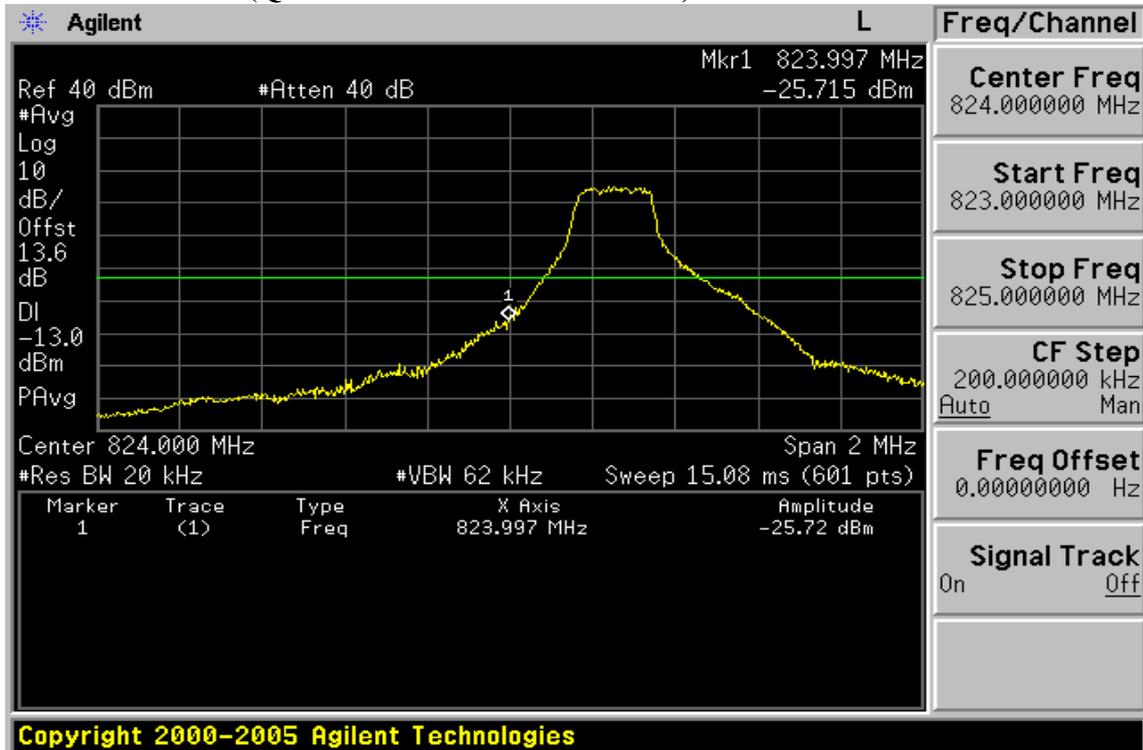
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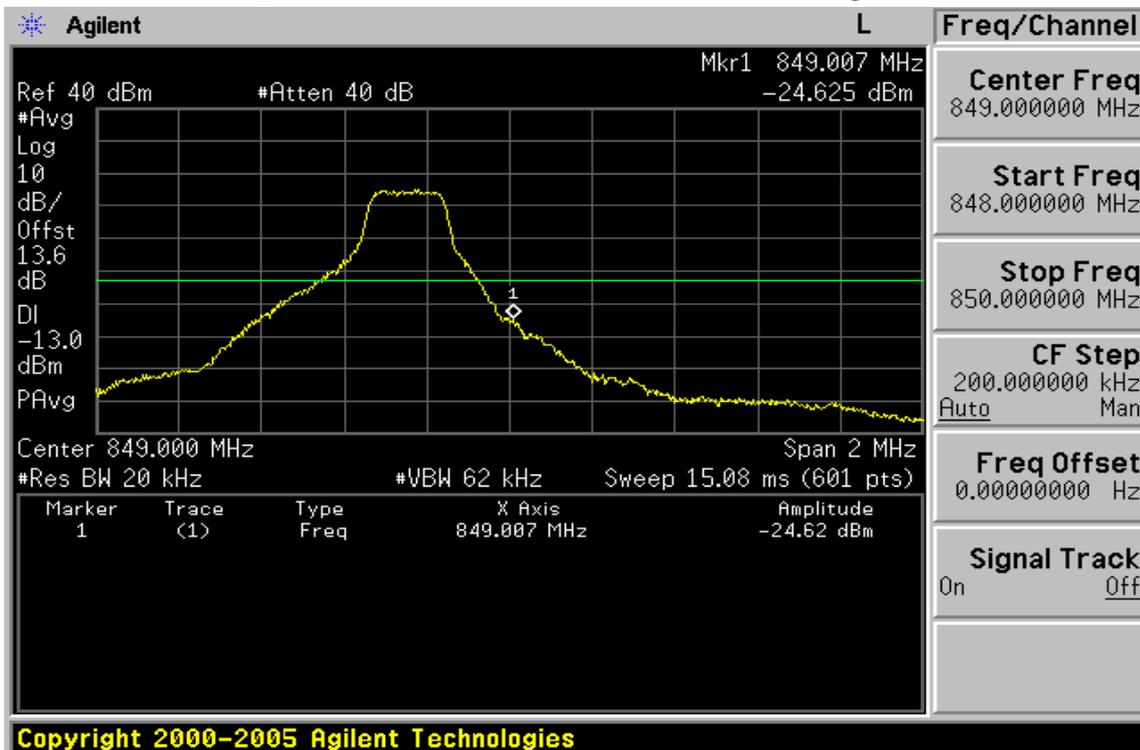
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**Band edge emission at antenna terminals –1.4MHz BW LTE-Band 5  
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



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



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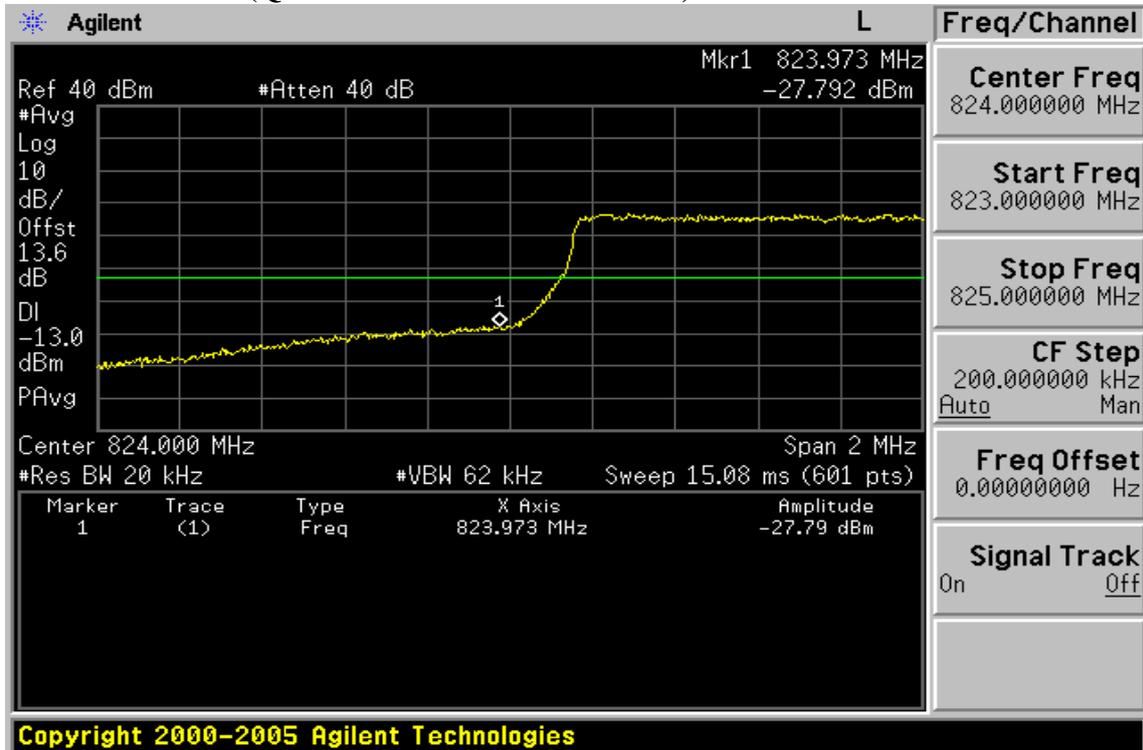
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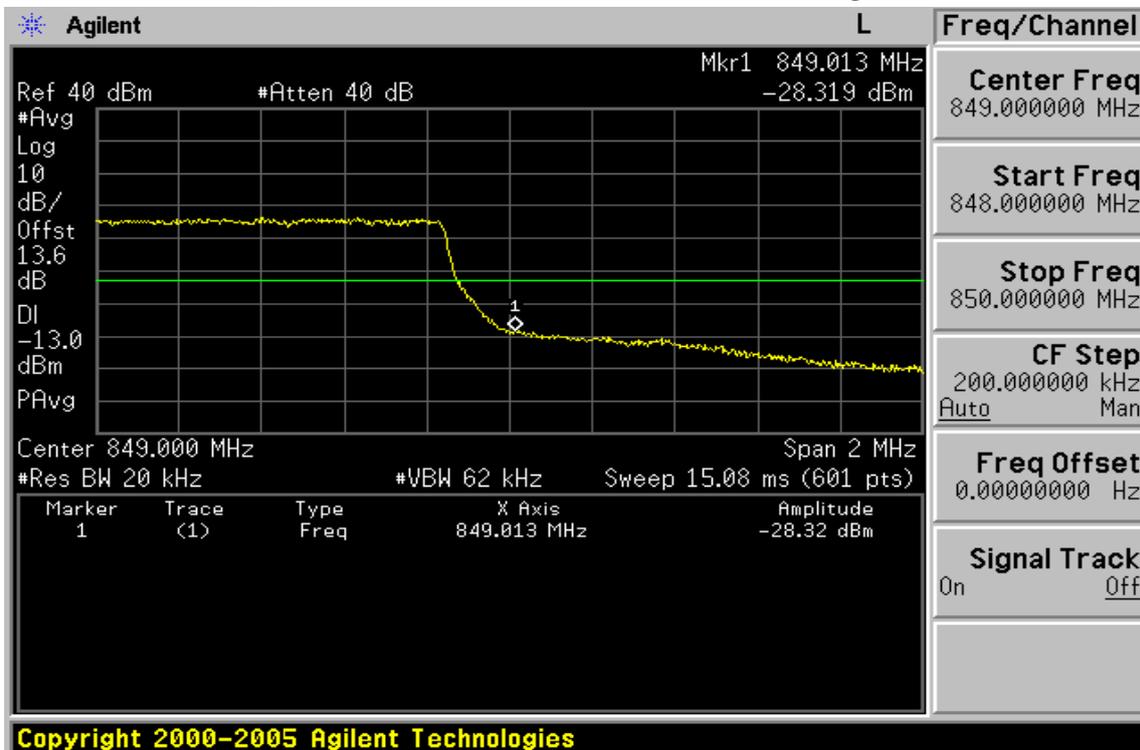
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**Band edge emission at antenna terminals –1.4MHz BW LTE-Band 5  
(QPSK RB Number: 6 Offset: 0) Channel Lowest**



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



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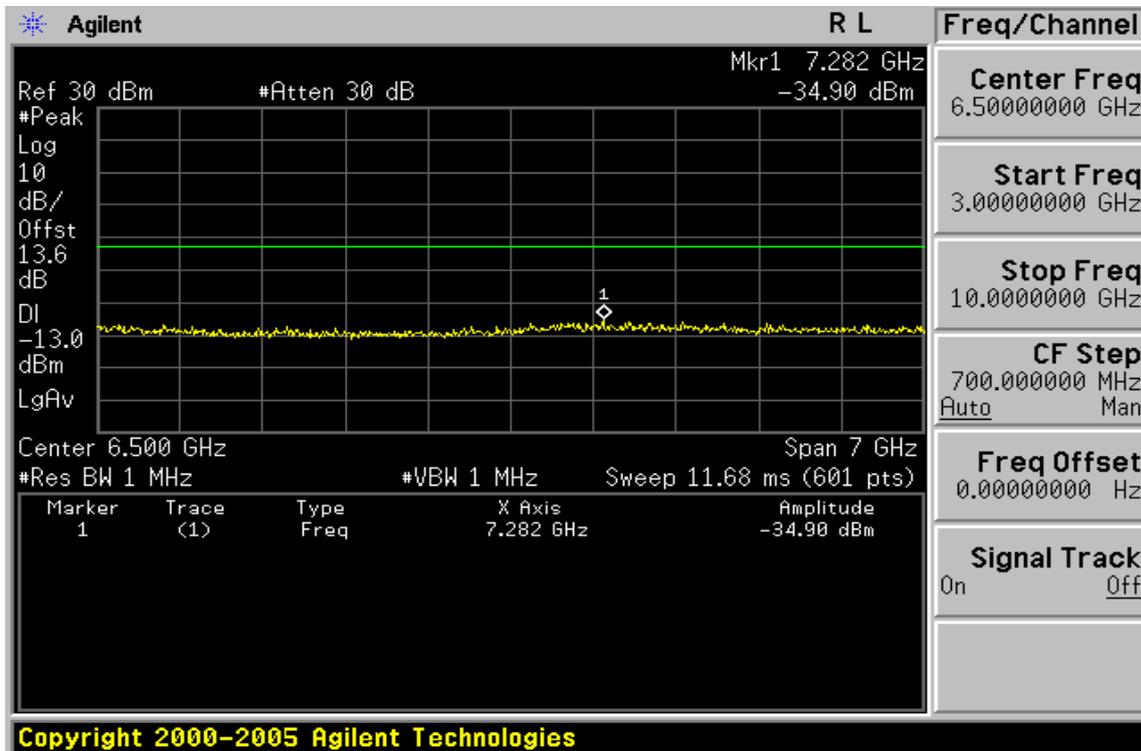
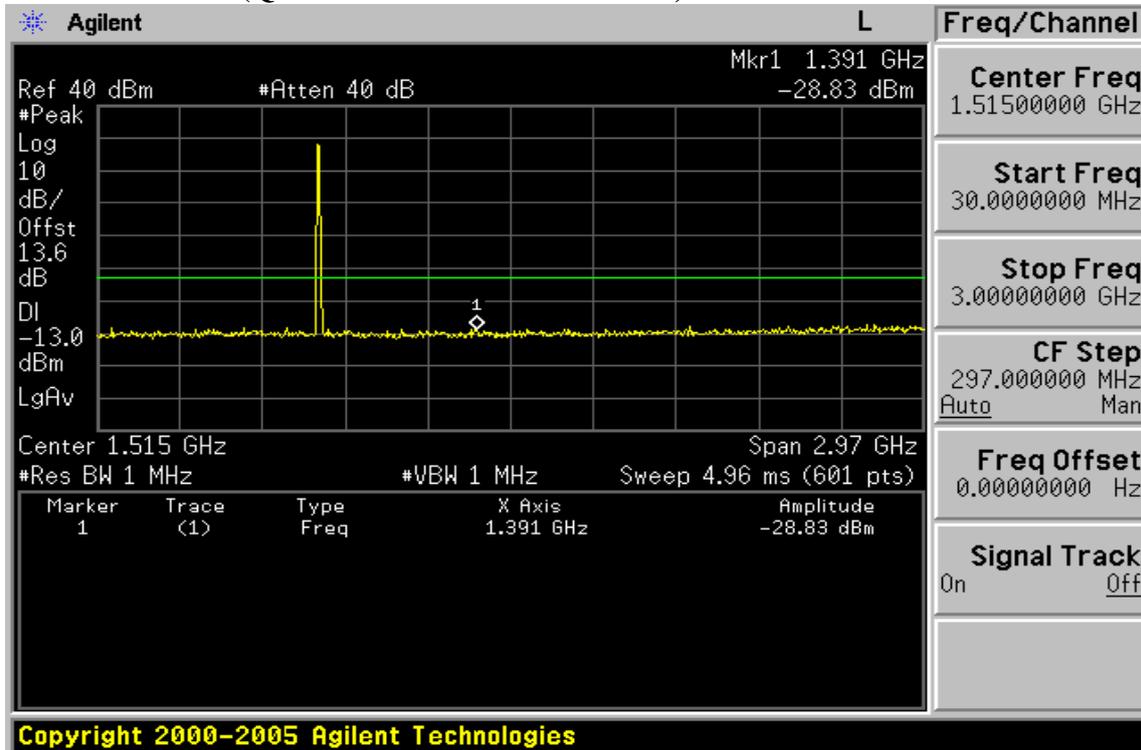
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**Out of Band emission at antenna terminals–3MHz BW LTE-Band 5  
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



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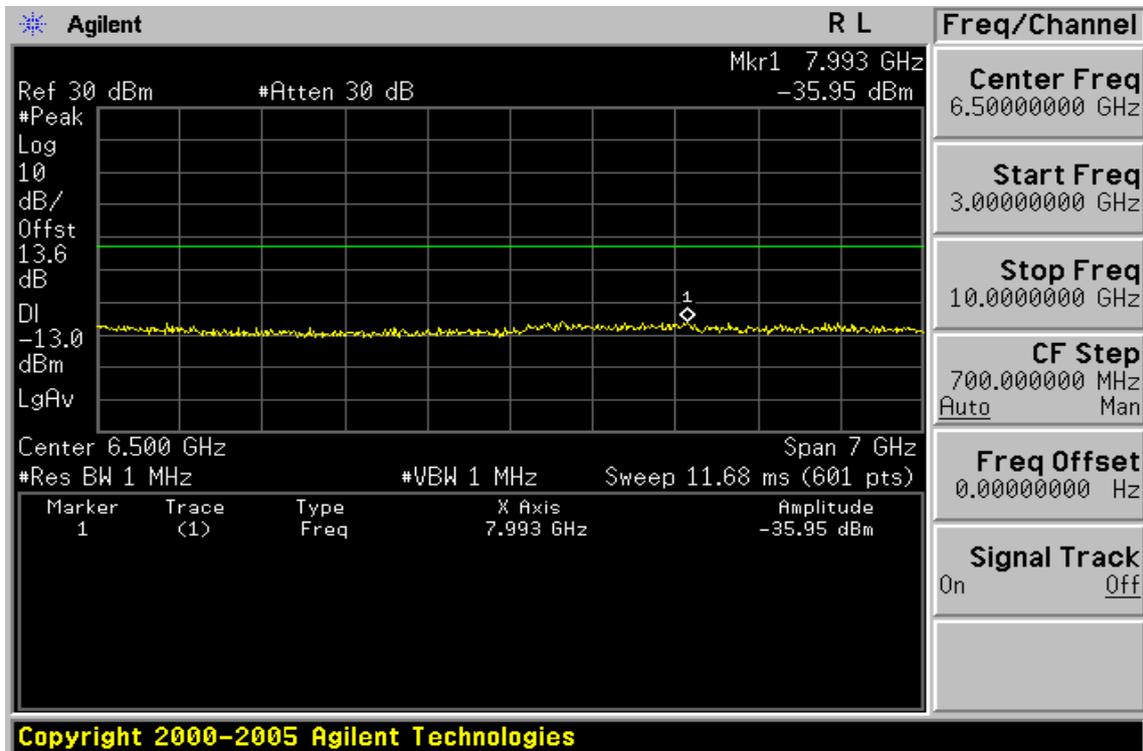
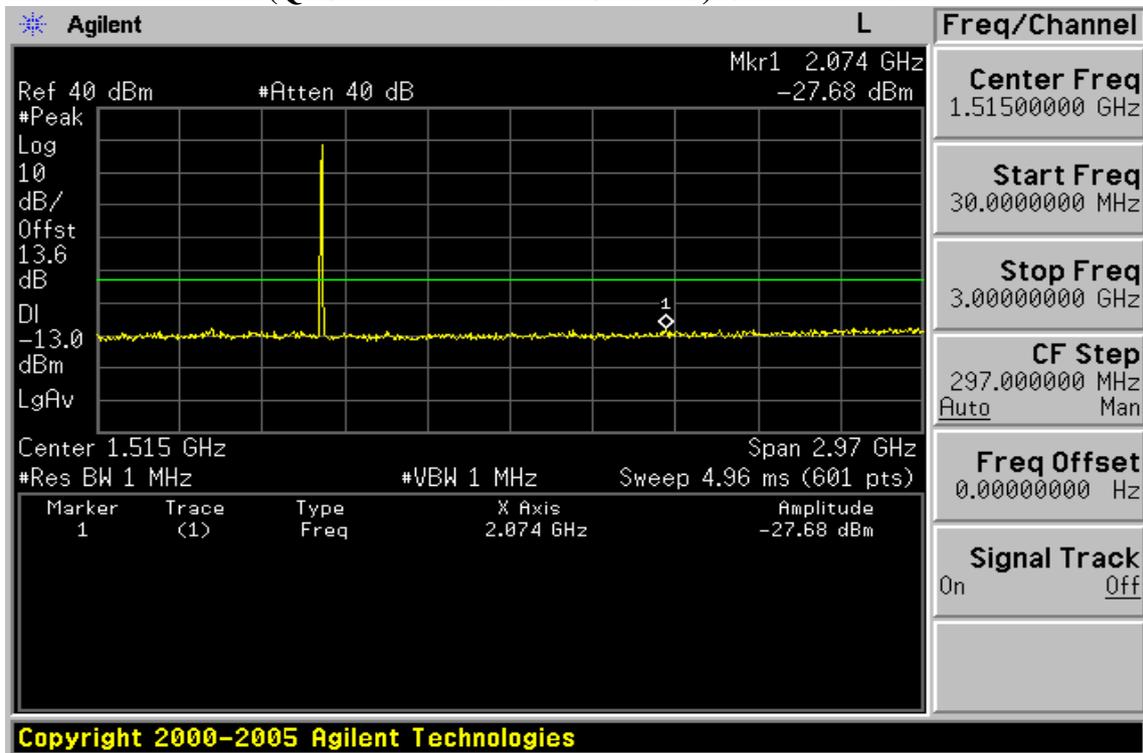
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**Out of Band emission at antenna terminals –3MHz BW LTE-Band 5  
 (QPSK RB Number: 1 Offset: 0) Channel Mid**



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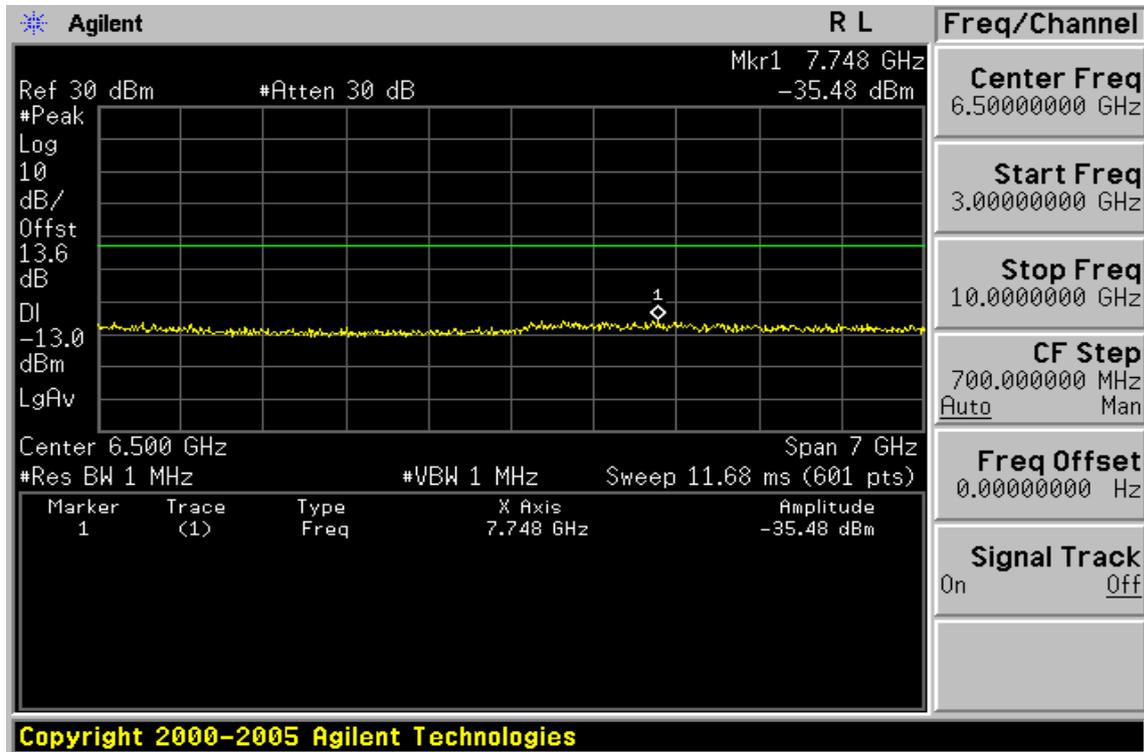
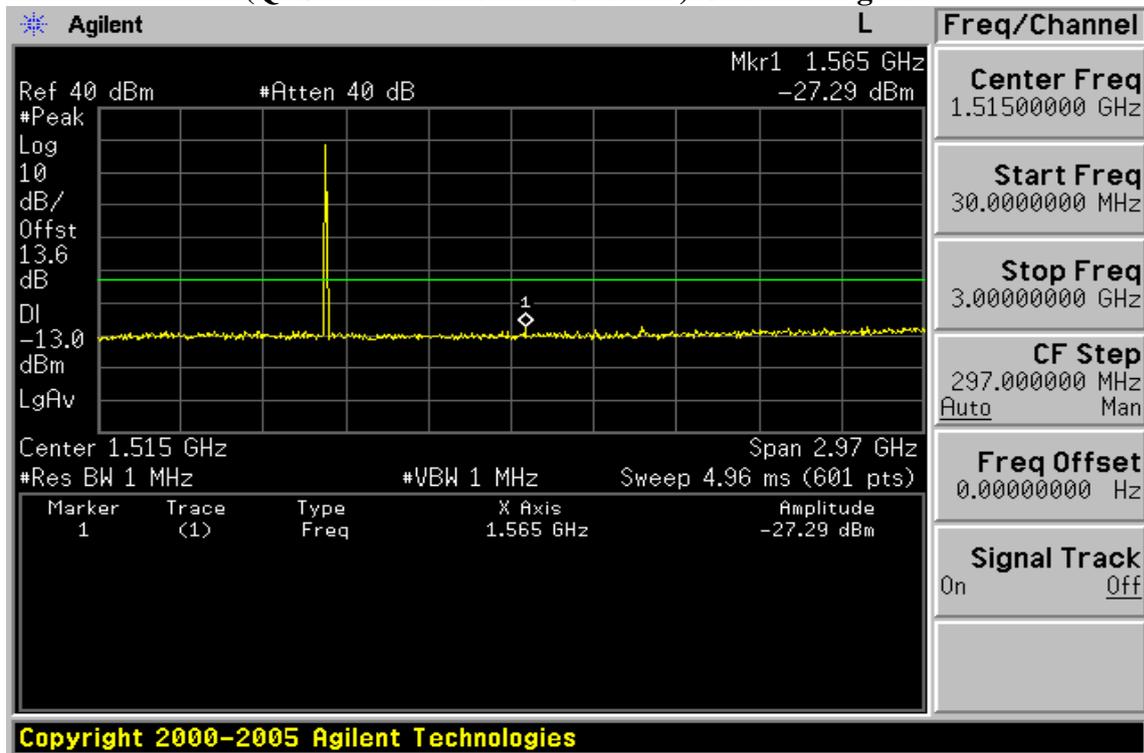
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**Out of Band emission at antenna terminals–3MHz BW LTE-Band 5  
(QPSK RB Number: 1 Offset: 0) Channel Highest**



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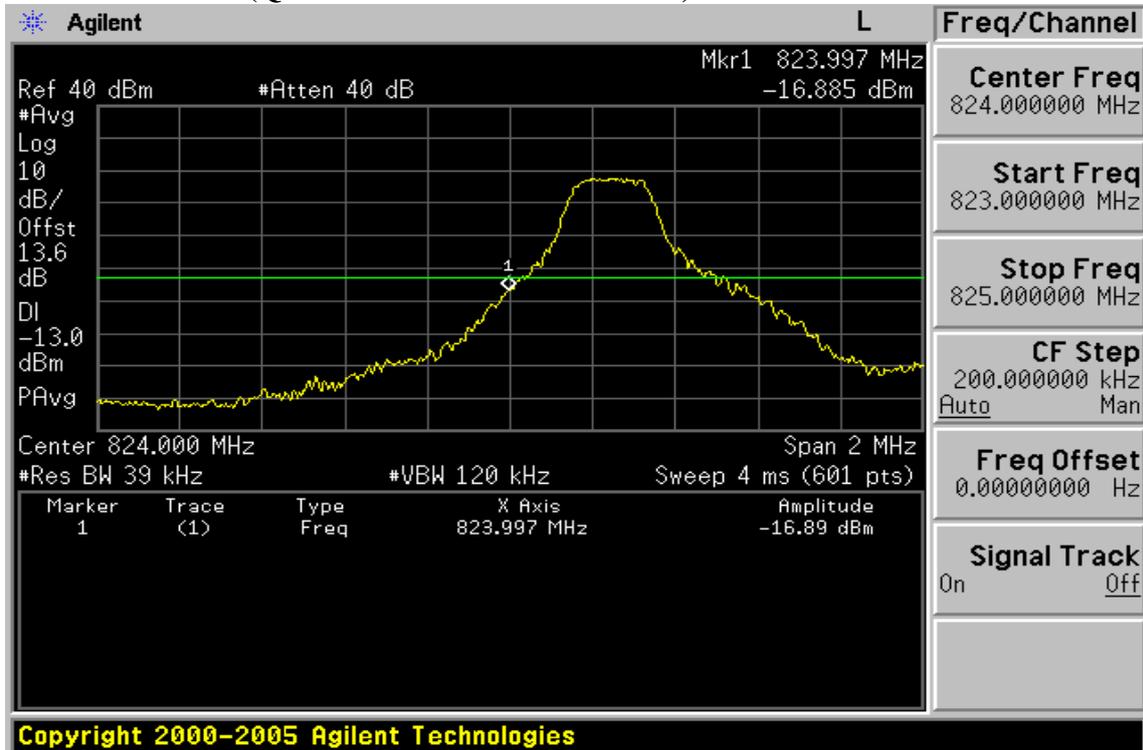
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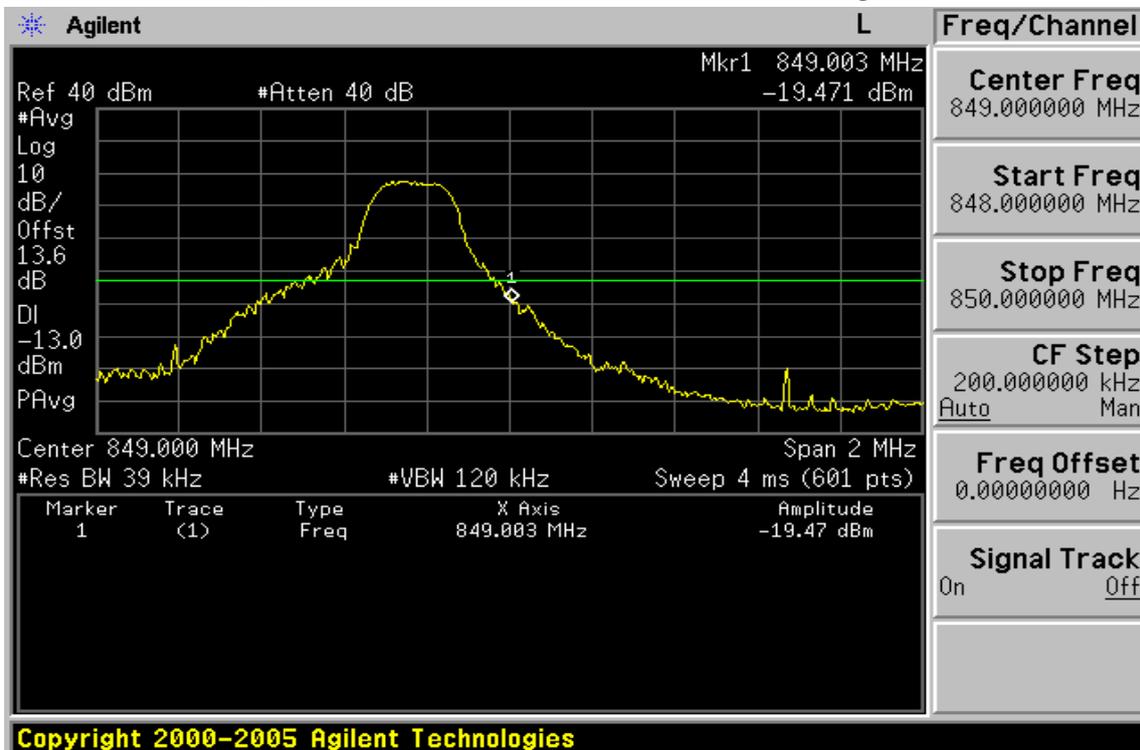
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**Band edge emission at antenna terminals –3MHz BW LTE-Band 5  
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



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



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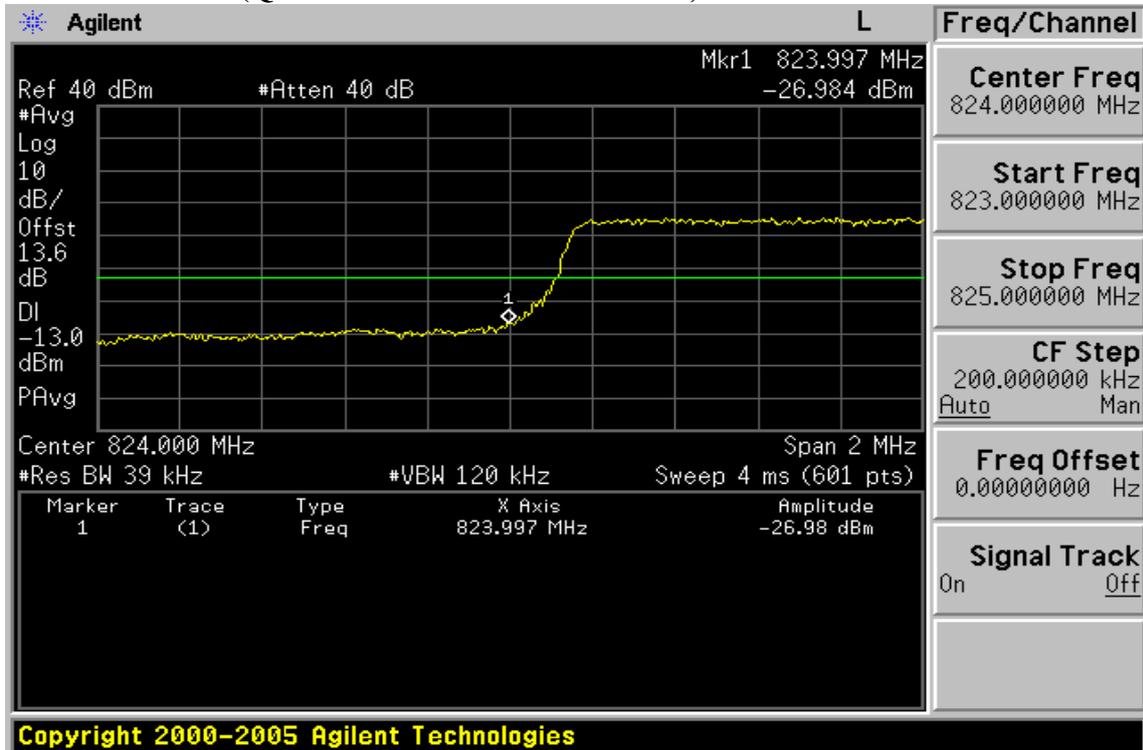
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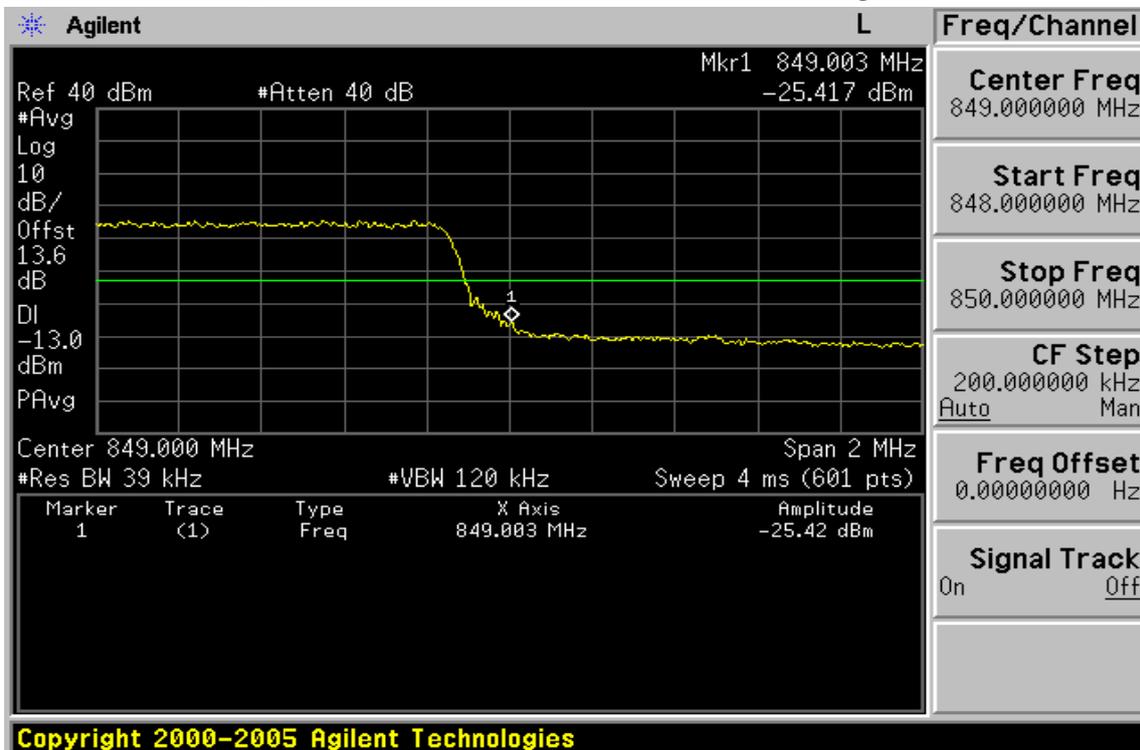
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**Band edge emission at antenna terminals –3MHz BW LTE-Band 5  
(QPSK RB Number: 15 Offset: 0) Channel Lowest**



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



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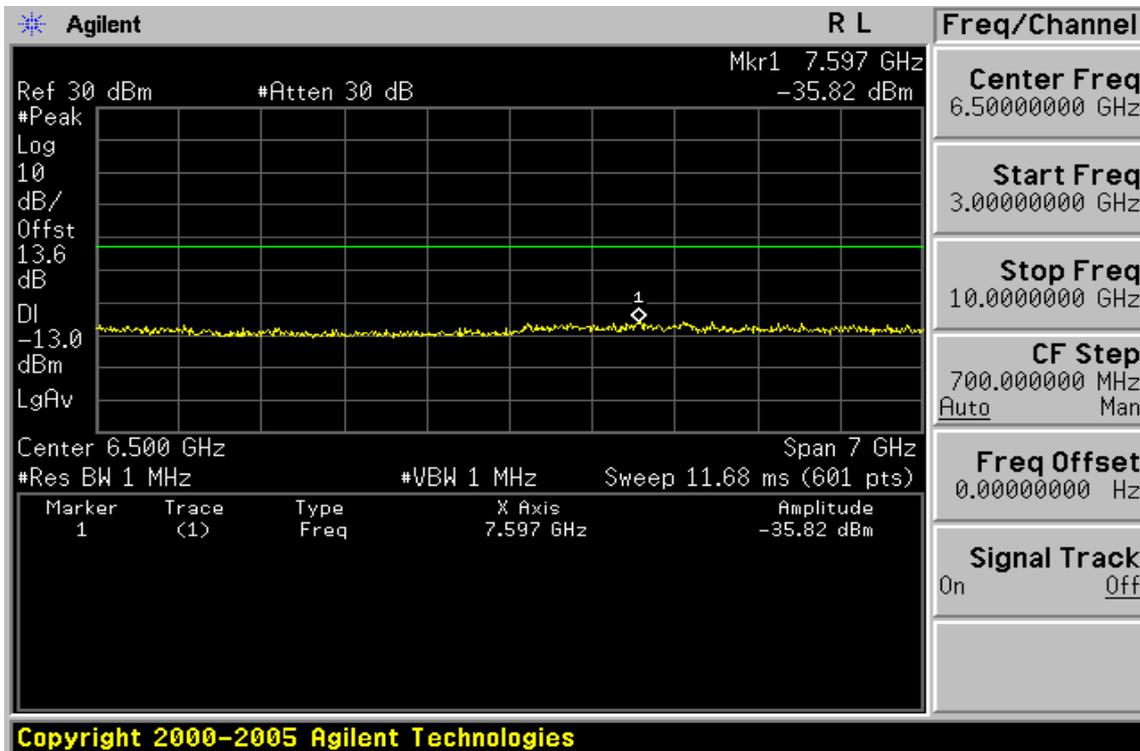
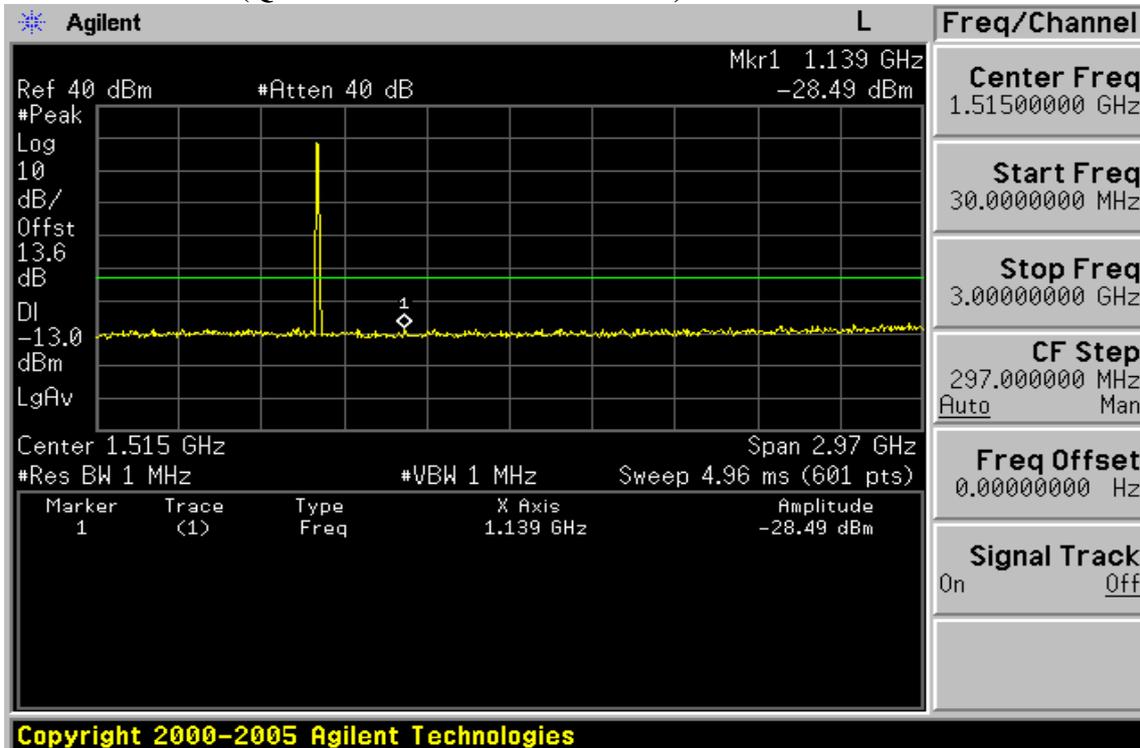
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**Out of Band emission at antenna terminals-5MHz BW LTE-Band 5  
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



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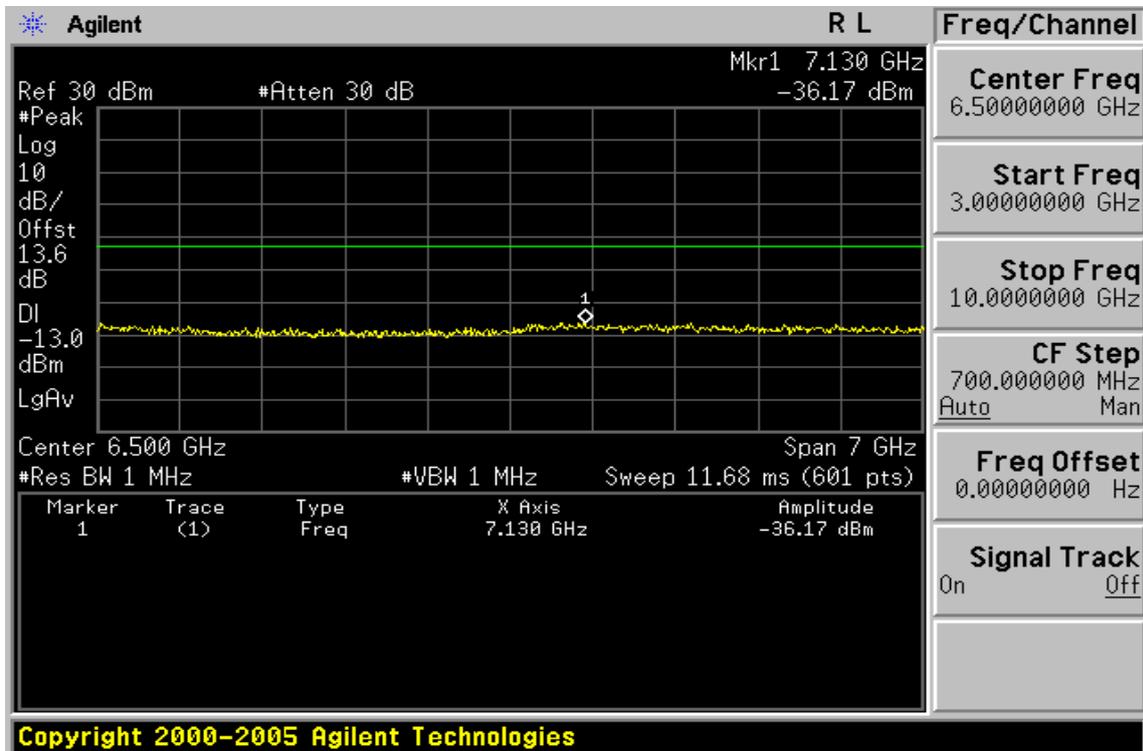
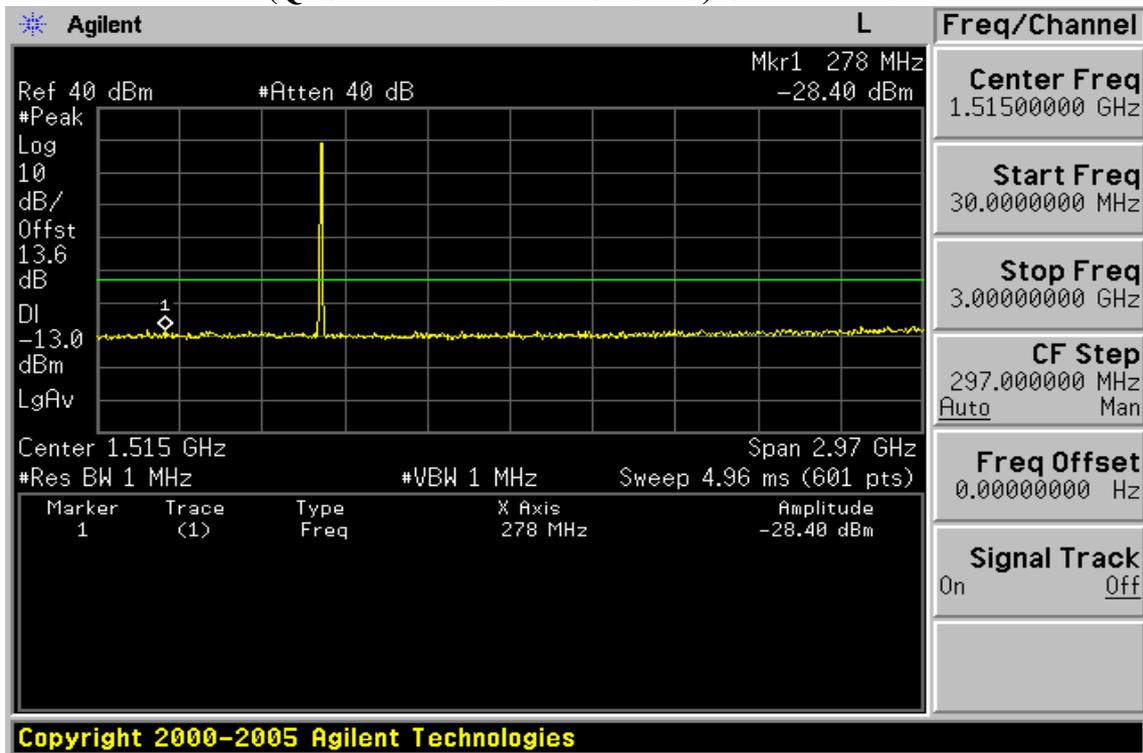
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**Out of Band emission at antenna terminals –5MHz BW LTE-Band 5  
(QPSK RB Number: 1 Offset: 0) Channel Mid**



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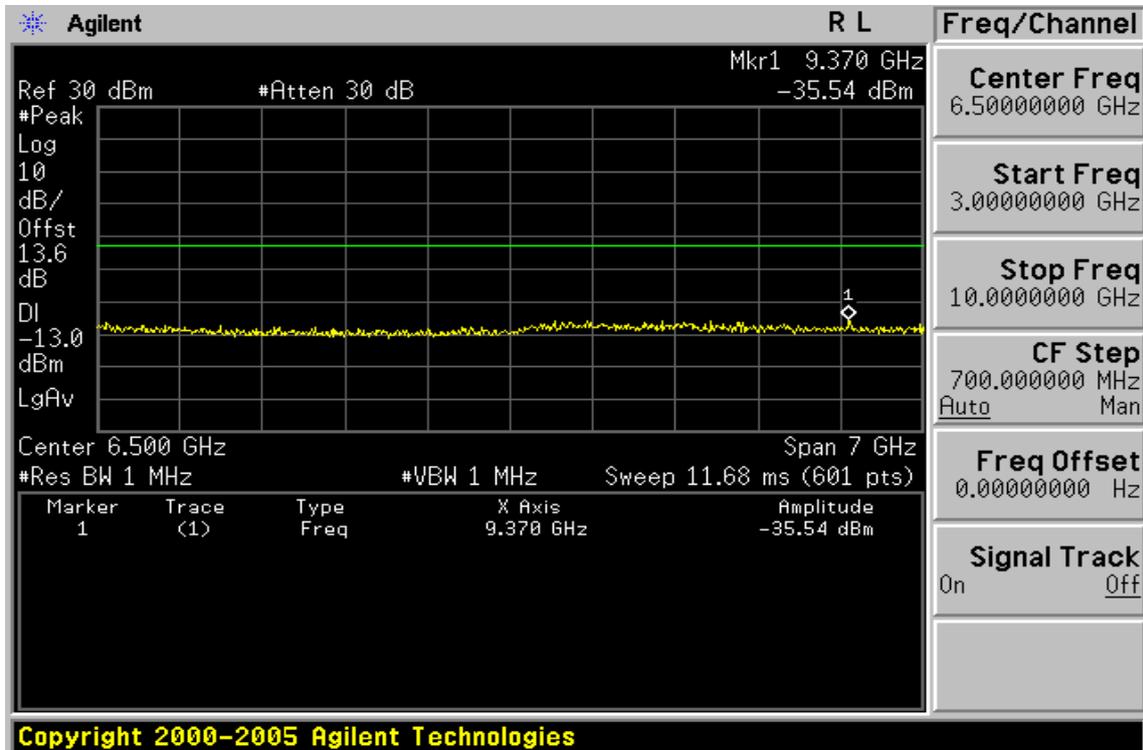
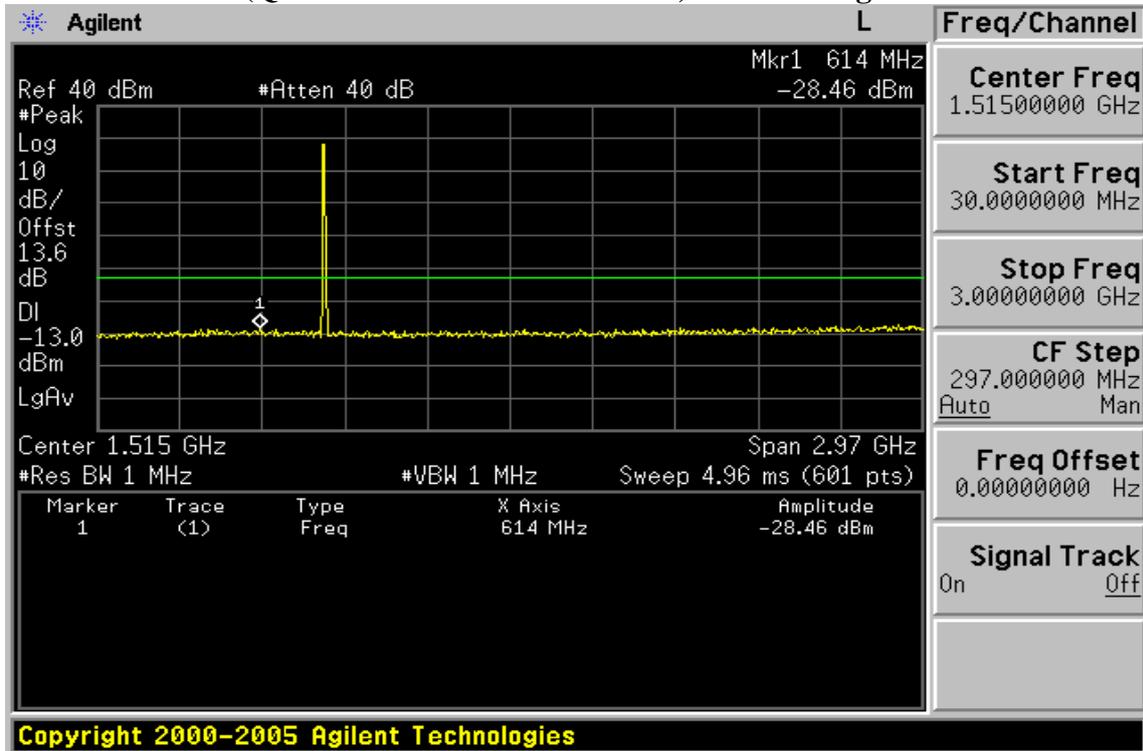
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**Out of Band emission at antenna terminals–5MHz BW LTE-Band 5  
(QPSK RB Number: 1 Offset: 0) Channel Highest**



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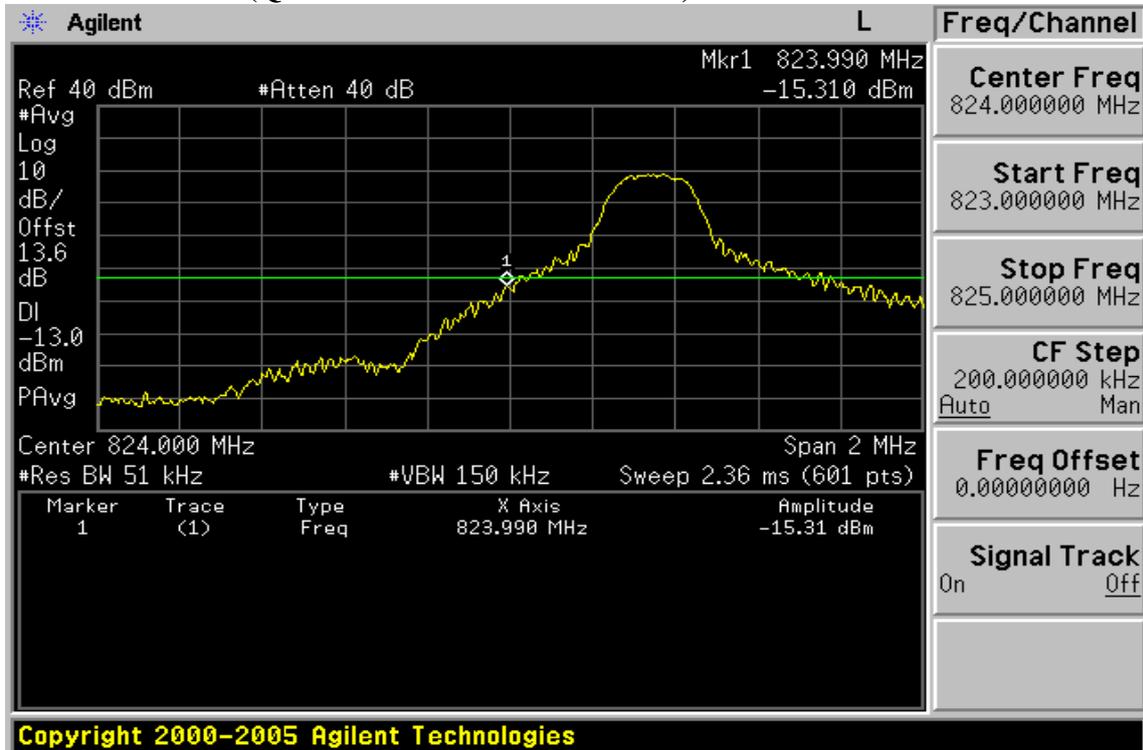
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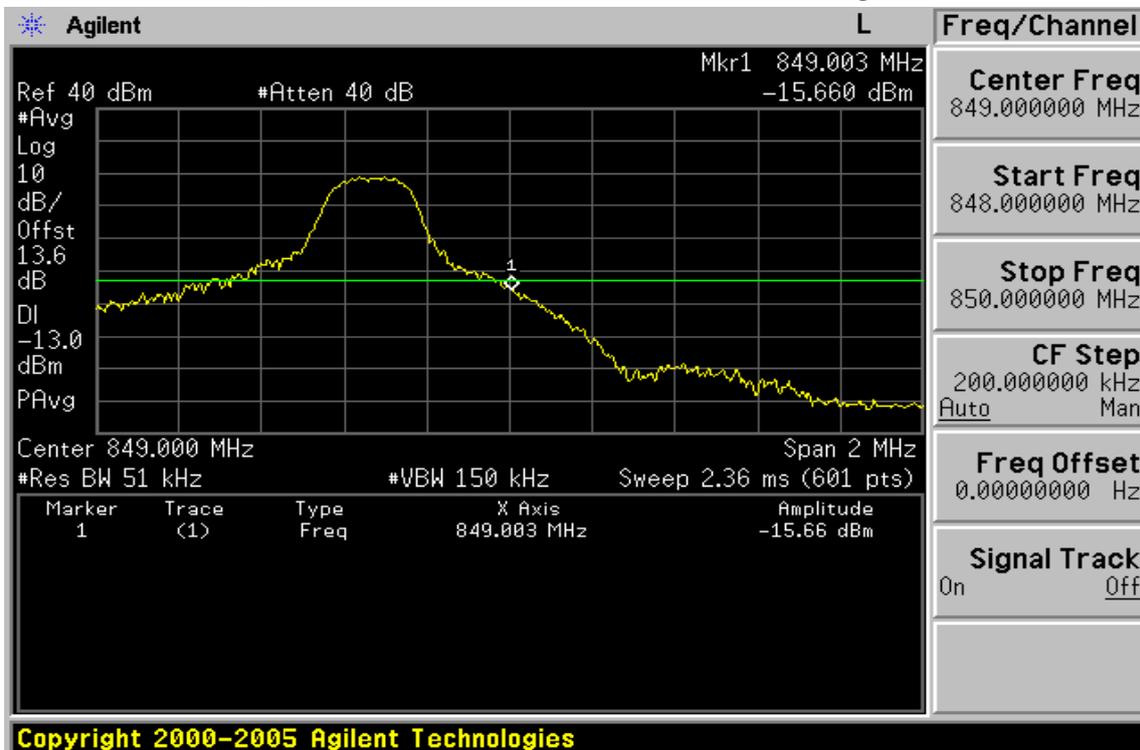
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**Band edge emission at antenna terminals –5MHz BW LTE-Band 5  
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



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



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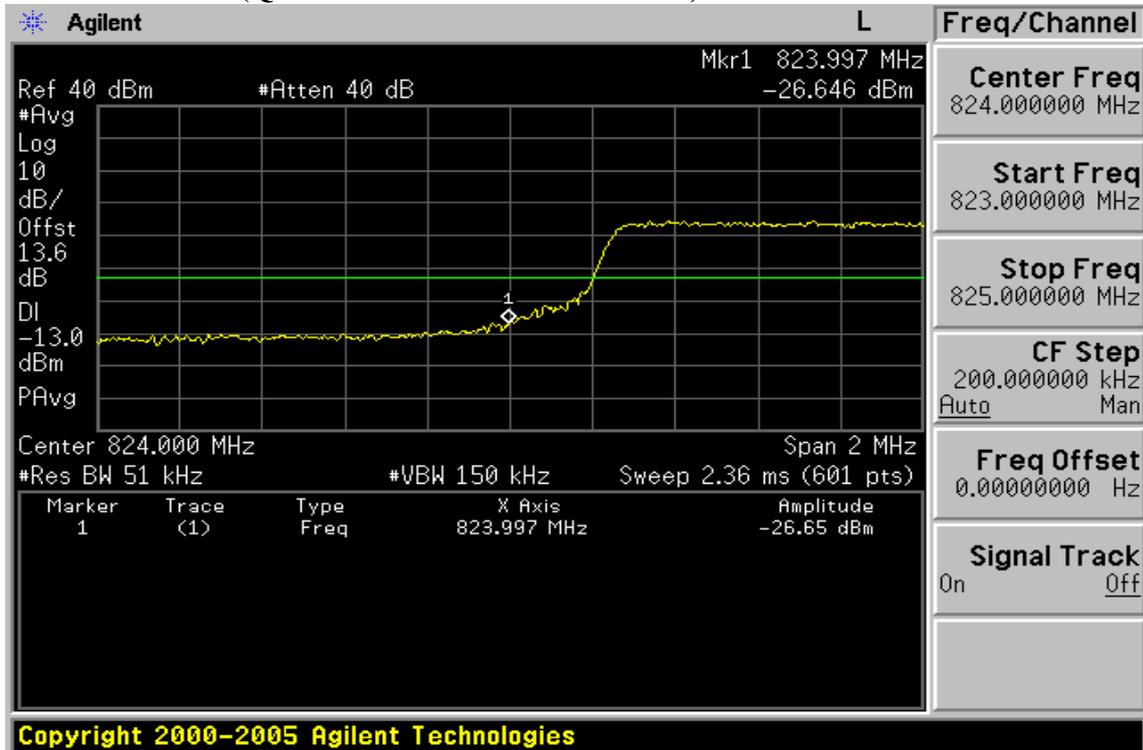
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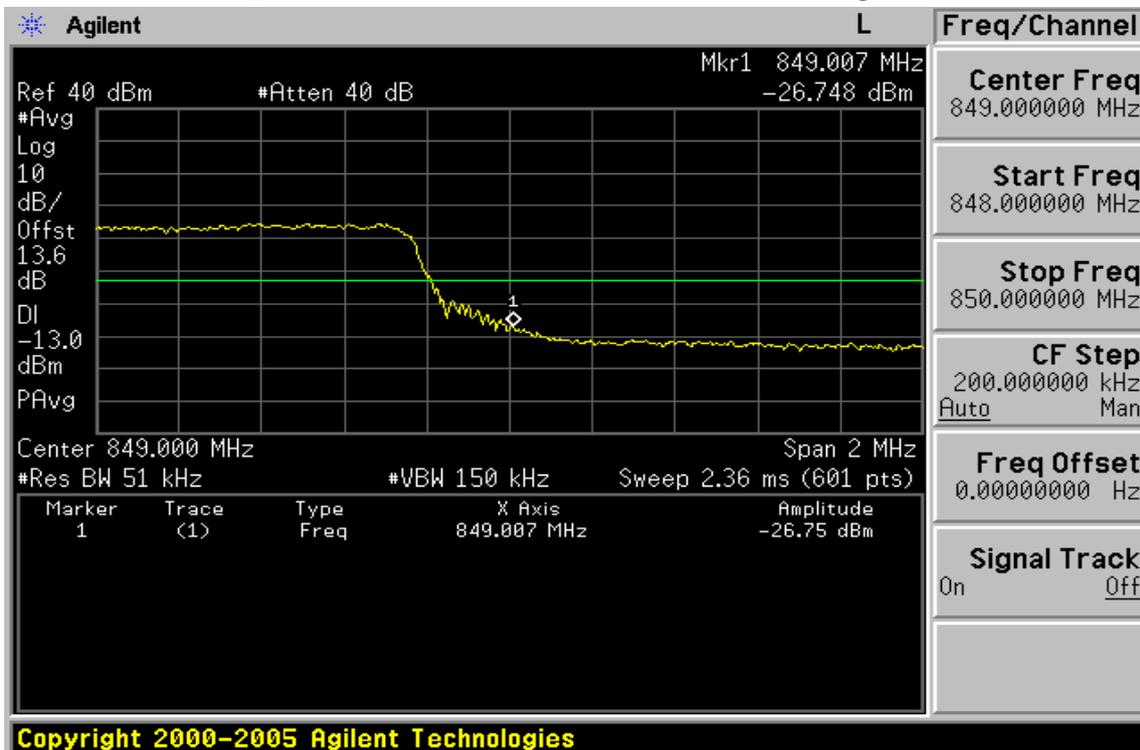
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**Band edge emission at antenna terminals -5MHz BW LTE-Band 5  
(QPSK RB Number: 25 Offset: 0) Channel Lowest**



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



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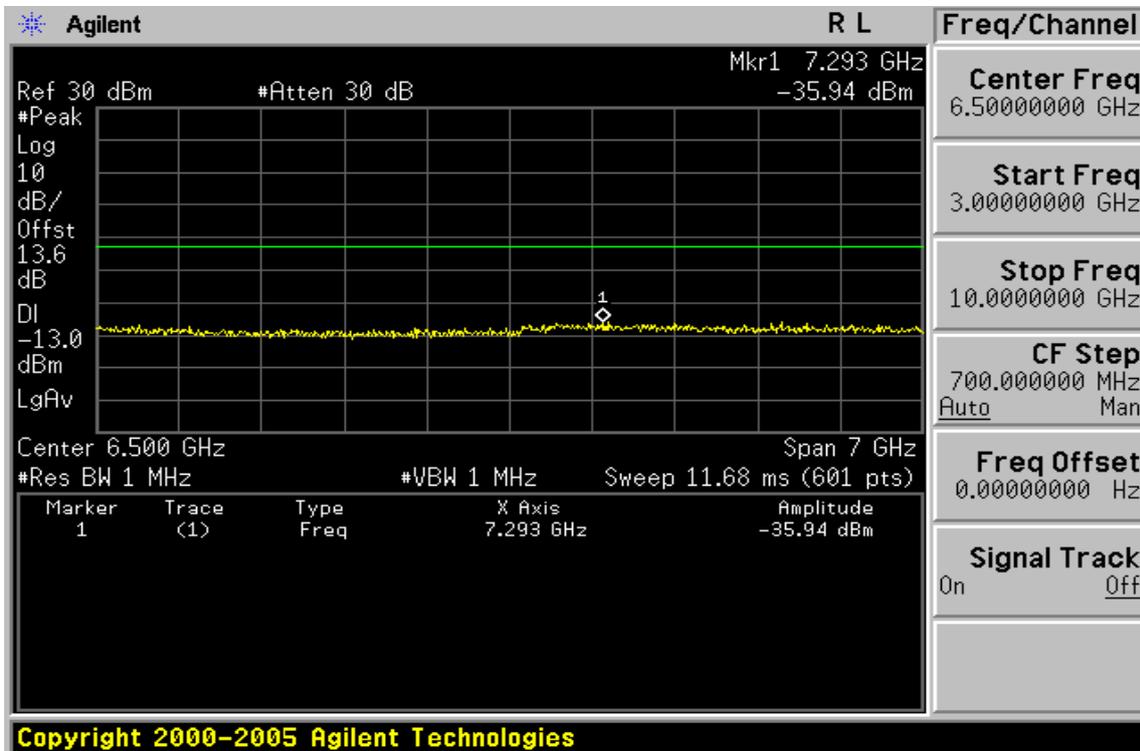
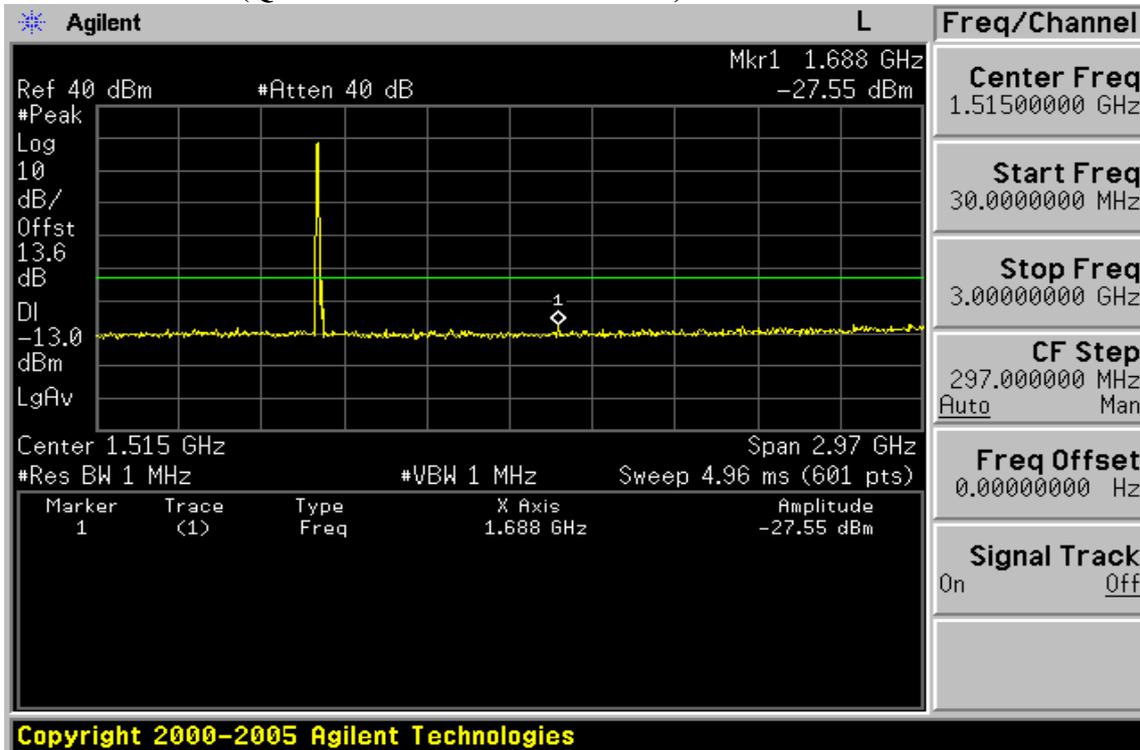
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**Out of Band emission at antenna terminals–10MHz BW LTE-Band 5  
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



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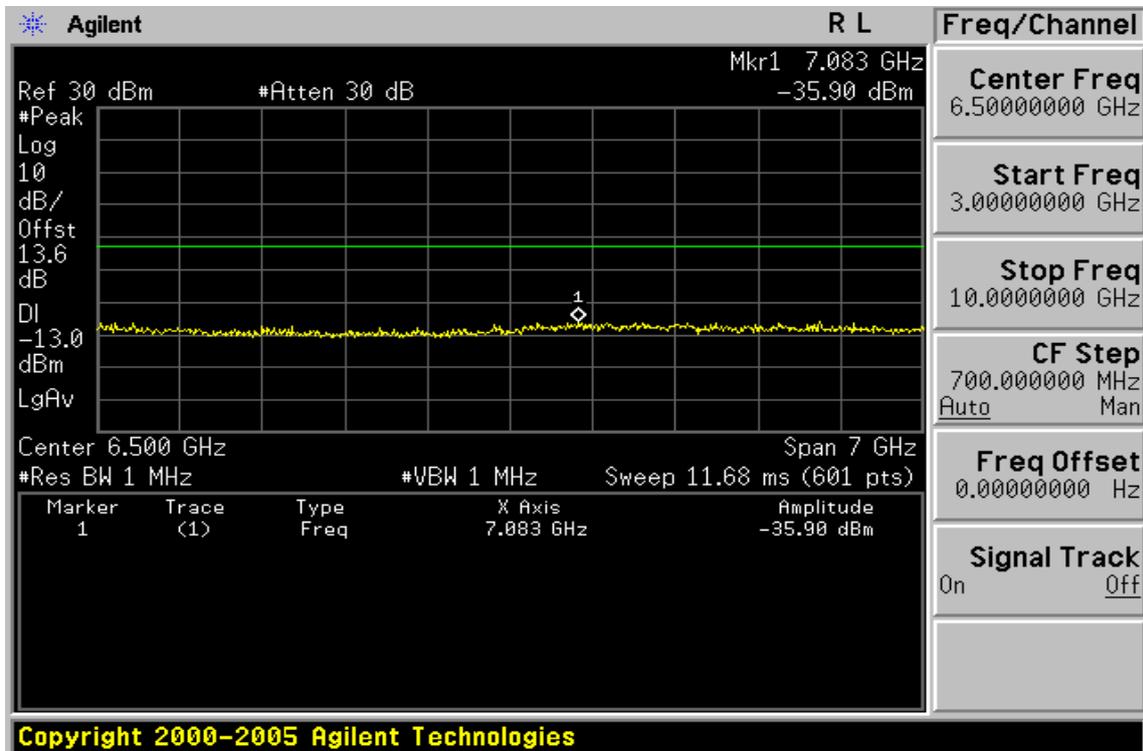
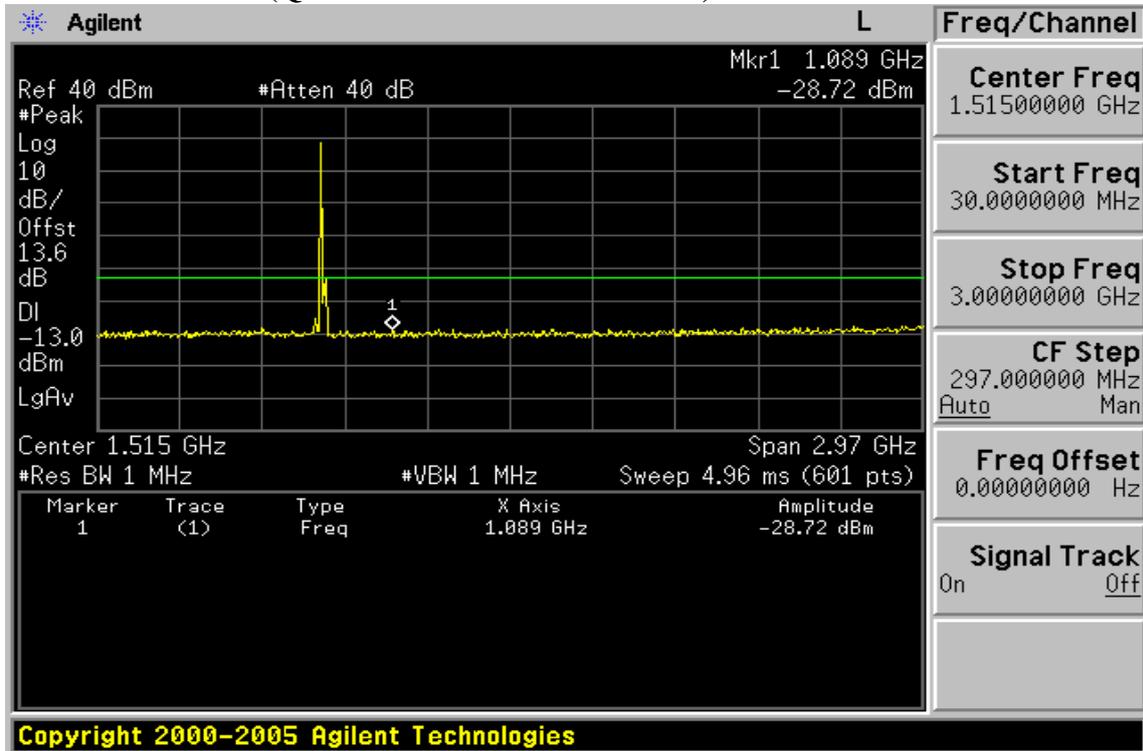
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**Out of Band emission at antenna terminals –10MHz BW LTE-Band 5  
(QPSK RB Number: 1 Offset: 0) Channel Mid**



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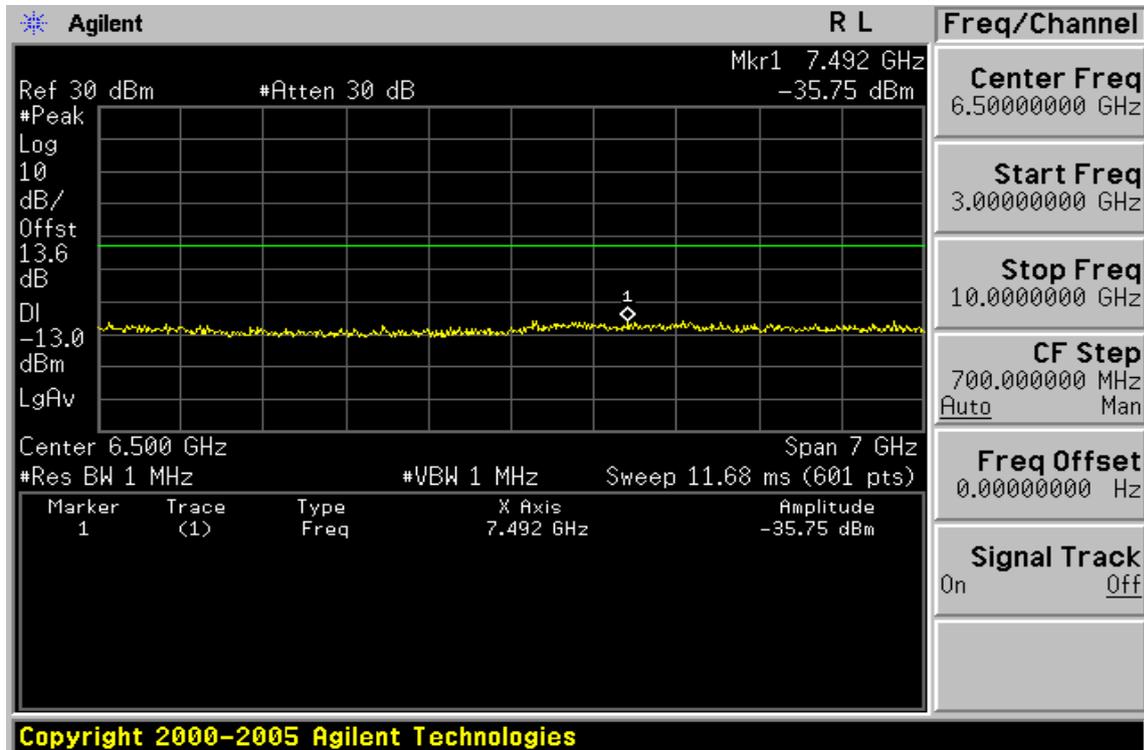
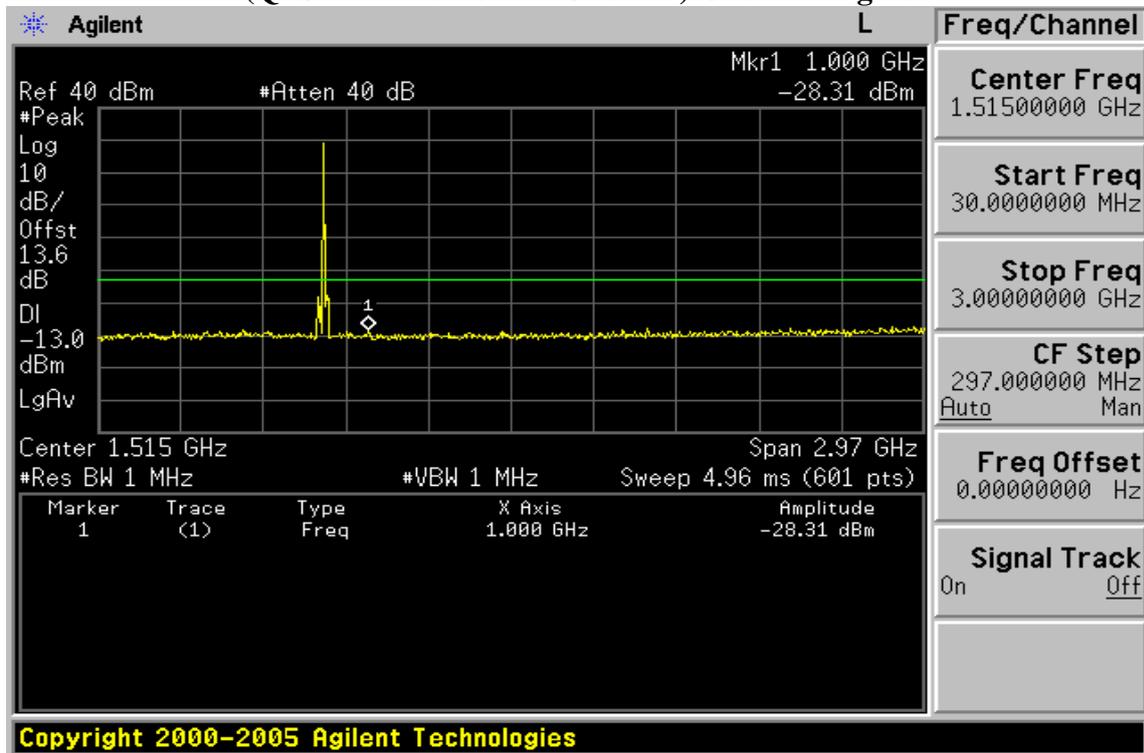
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**Out of Band emission at antenna terminals–10MHz BW LTE-Band 5  
(QPSK RB Number: 1 Offset: 0) Channel Highest**



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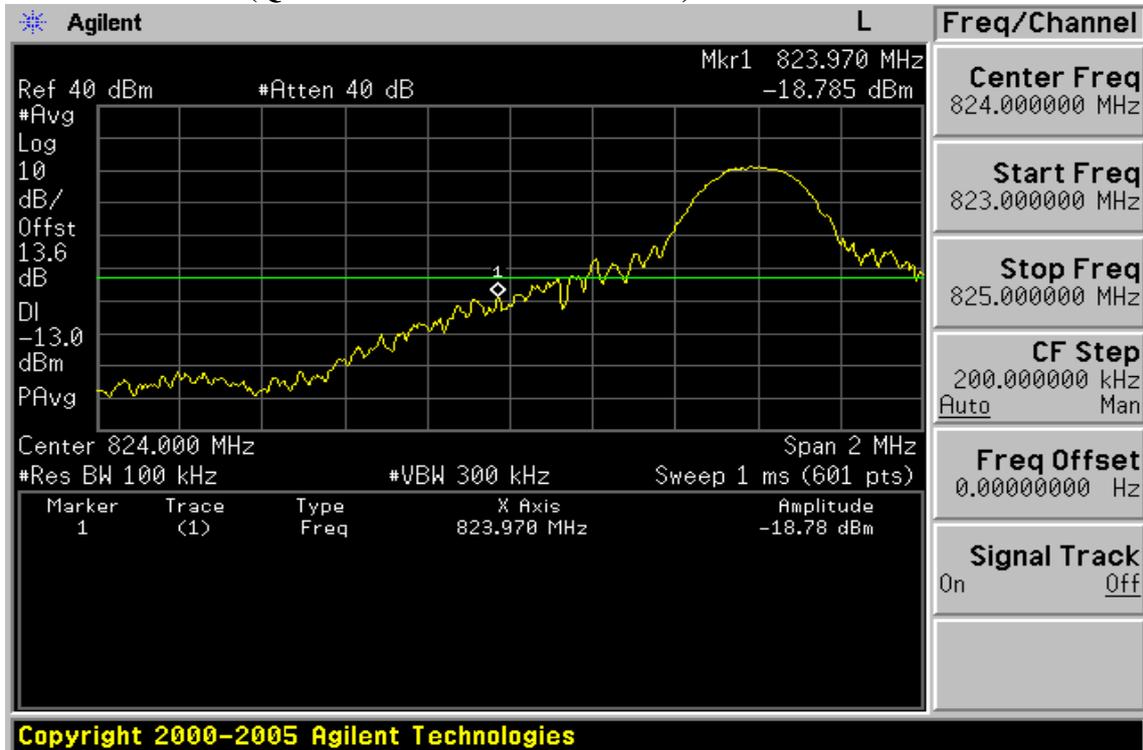
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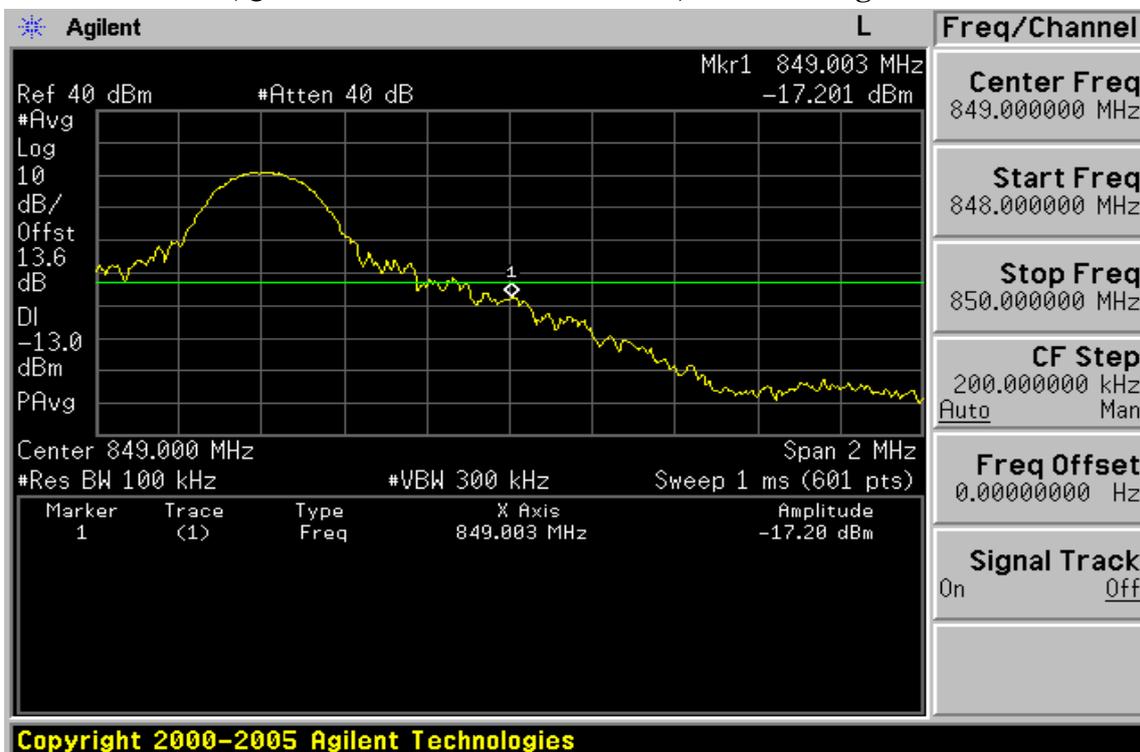
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**Band edge emission at antenna terminals -10MHz BW LTE-Band 5  
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



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



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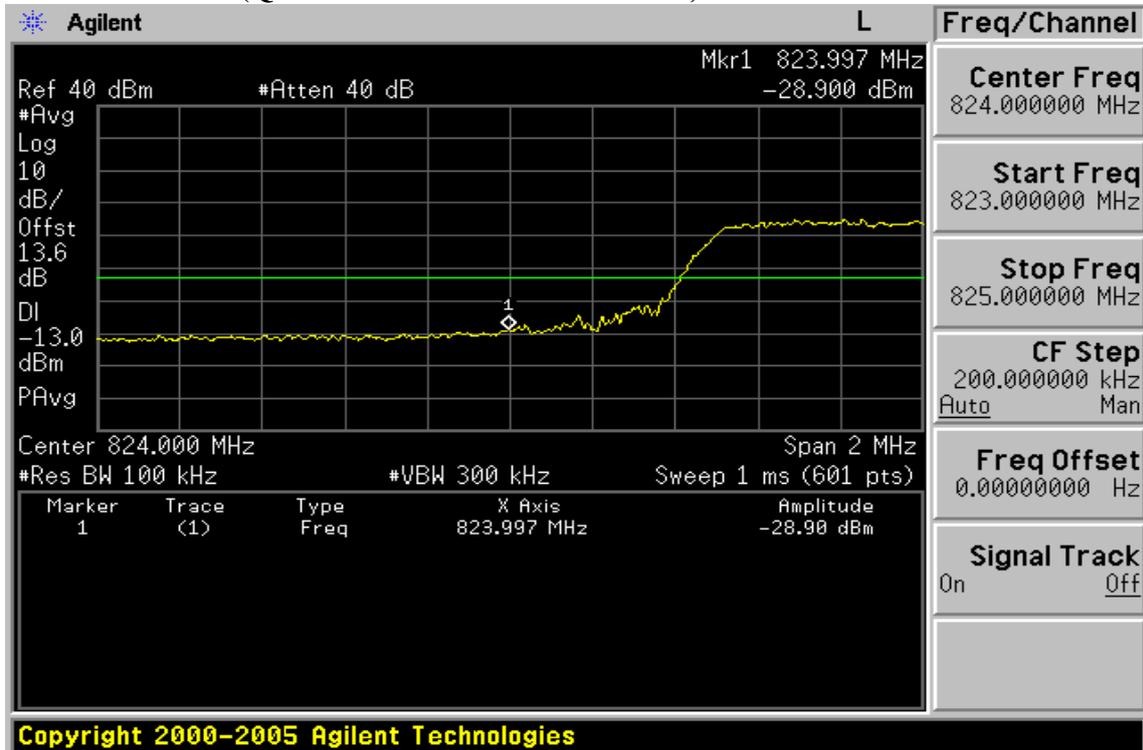
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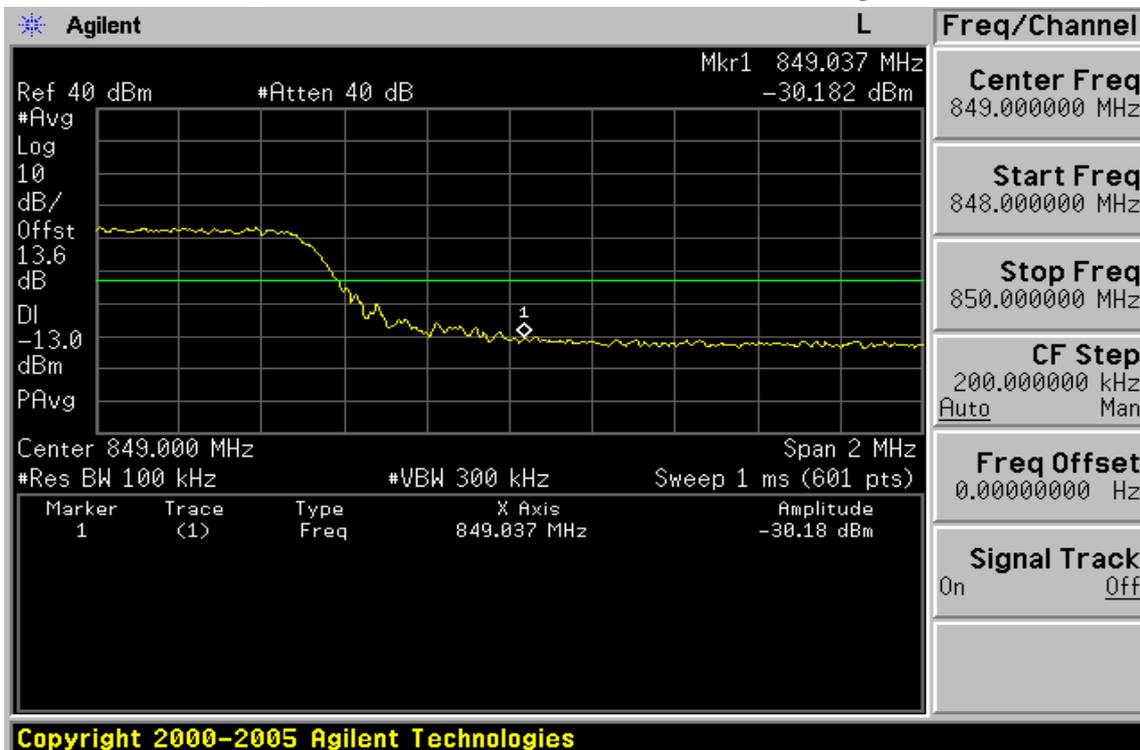
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**Band edge emission at antenna terminals -10MHz BW LTE-Band 5  
 (QPSK RB Number: 50 Offset: 0) Channel Lowest**



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



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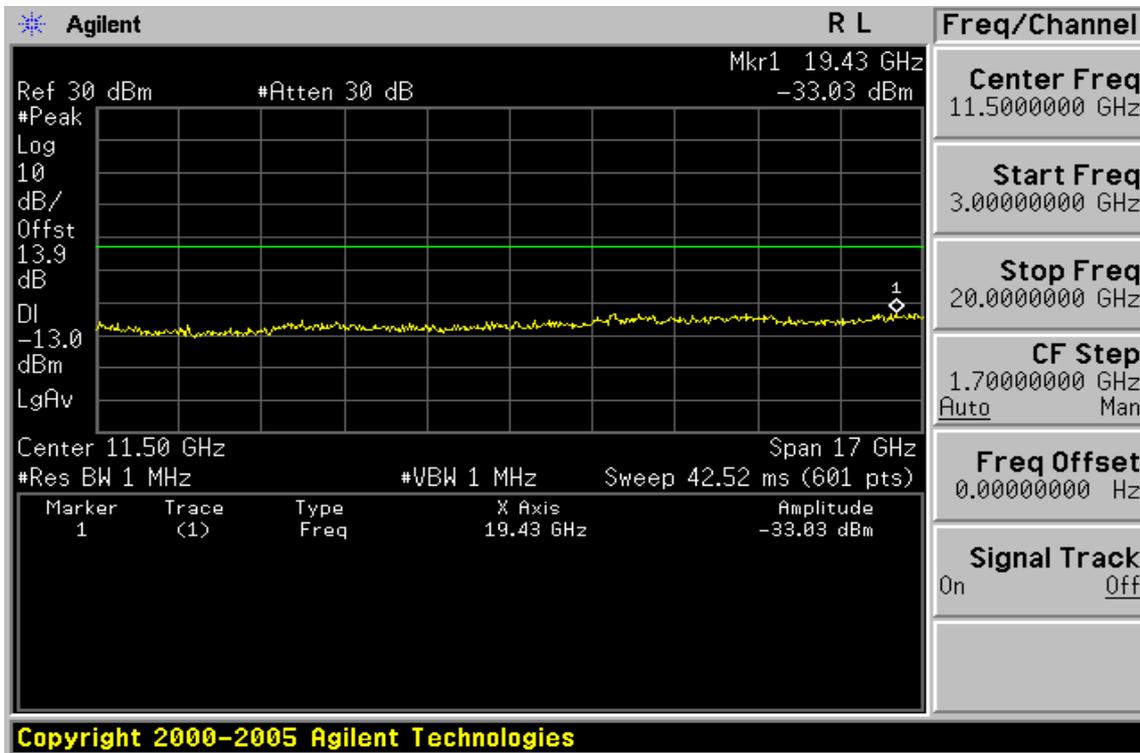
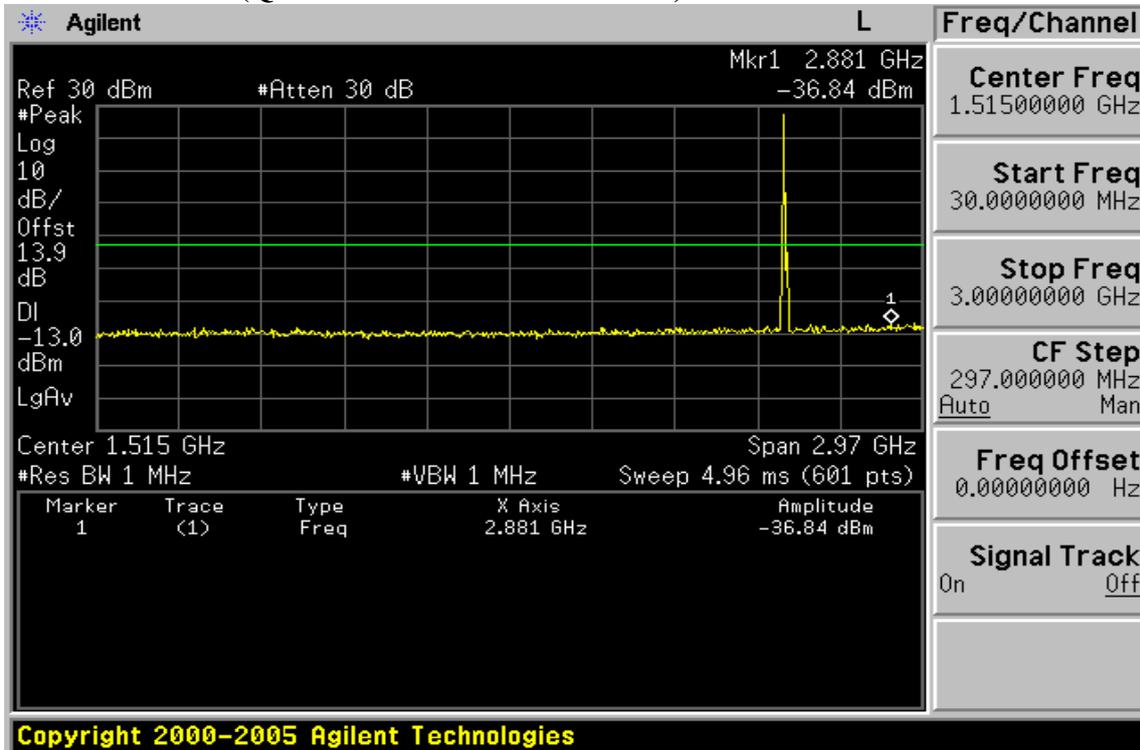
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**Out of Band emission at antenna terminals-5MHz BW LTE-Band 7  
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



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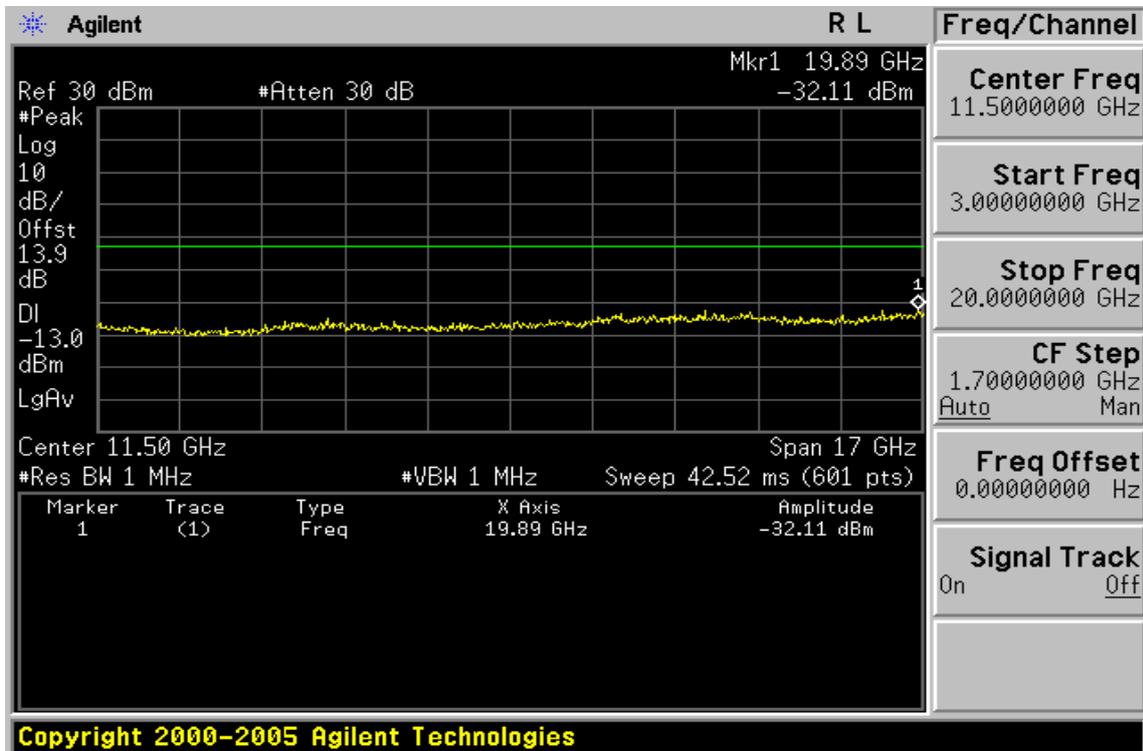
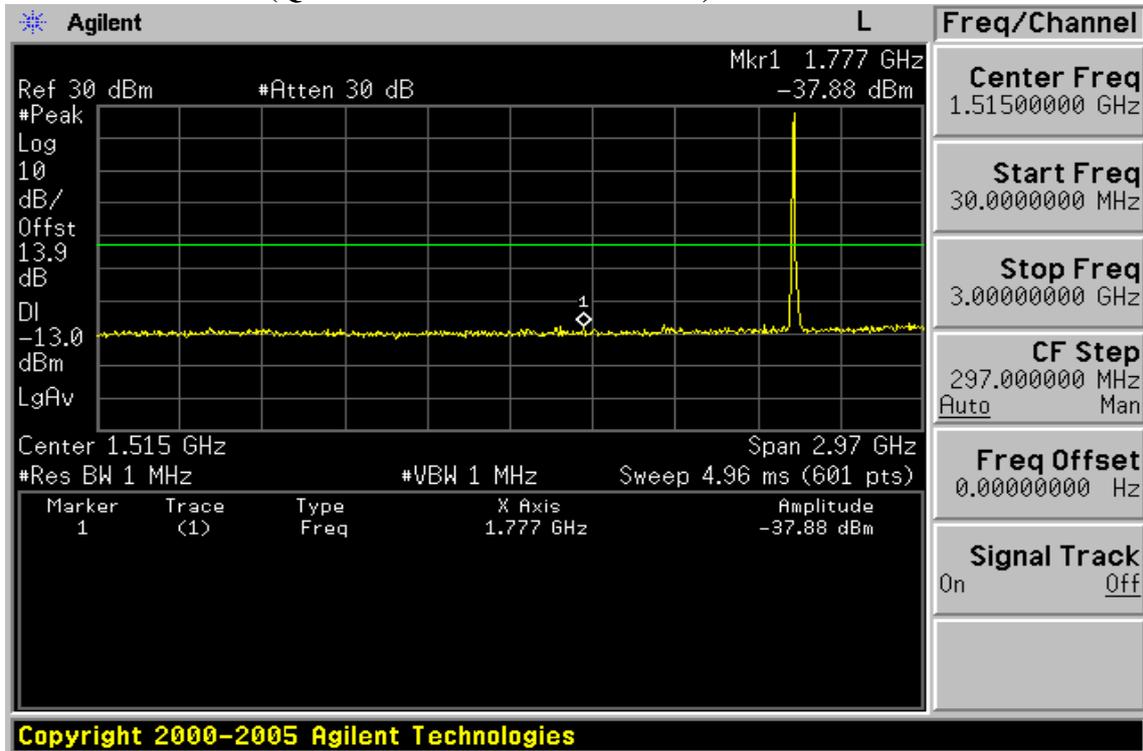
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**Out of Band emission at antenna terminals –5MHz BW LTE-Band 7  
(QPSK RB Number: 1 Offset: 0) Channel Mid**



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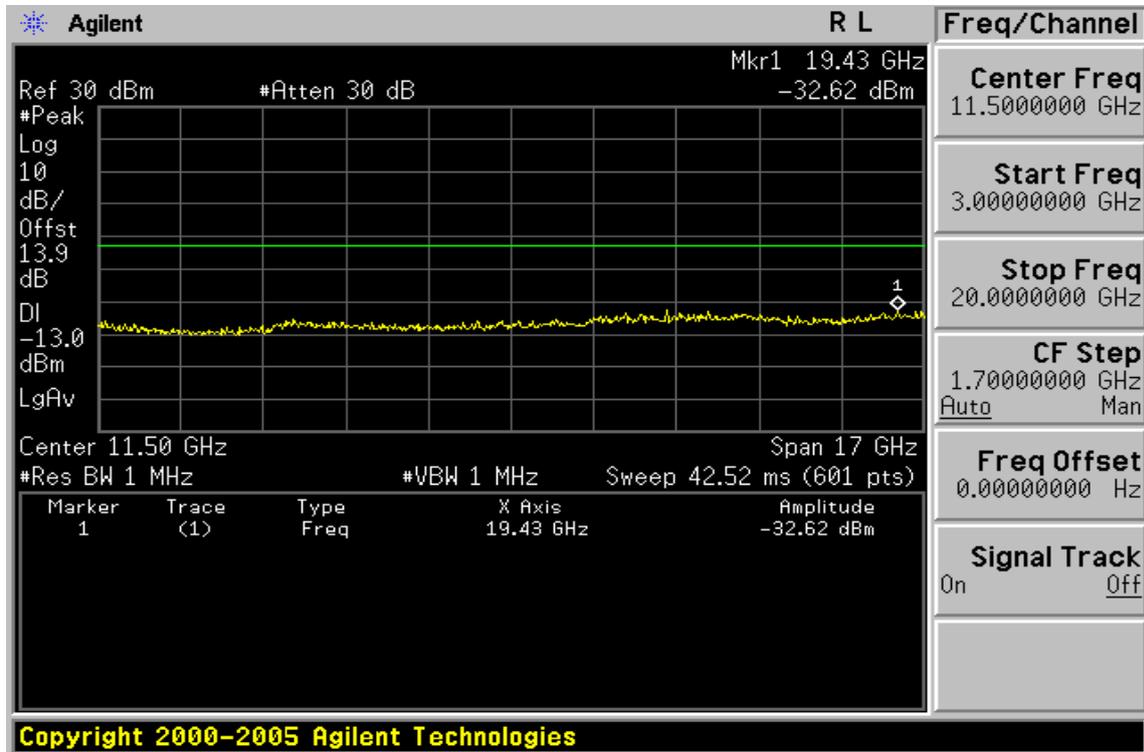
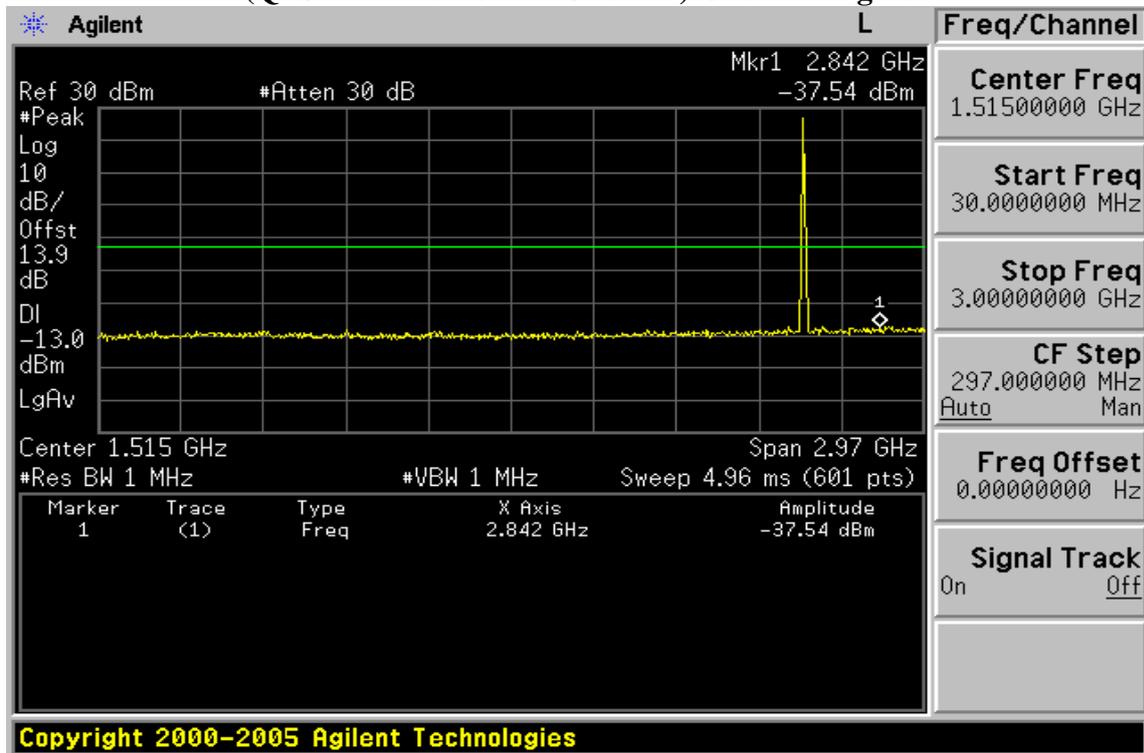
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**Out of Band emission at antenna terminals–5MHz BW LTE-Band 7  
(QPSK RB Number: 1 Offset: 0) Channel Highest**

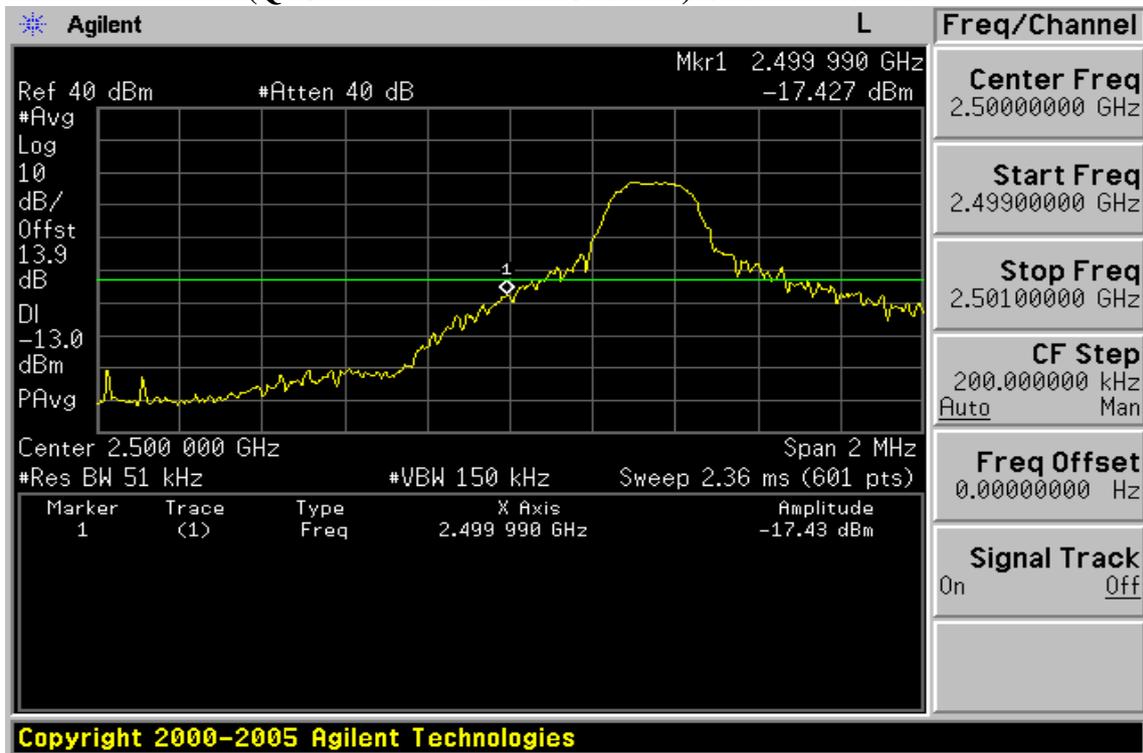


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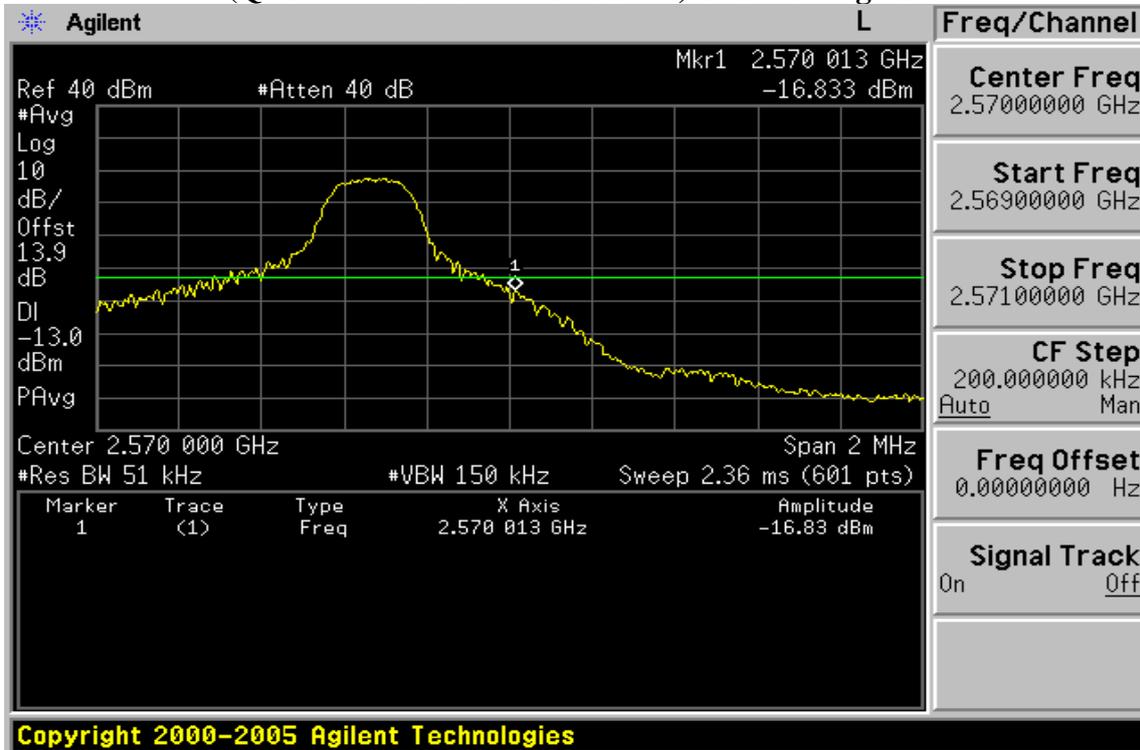
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**Band edge emission at antenna terminals –5MHz BW LTE-Band 7  
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Band edge emission at antenna terminals –5MHz BW LTE-Band 7  
(QPSK RB Number: 1 Offset: 24) Channel Highest**



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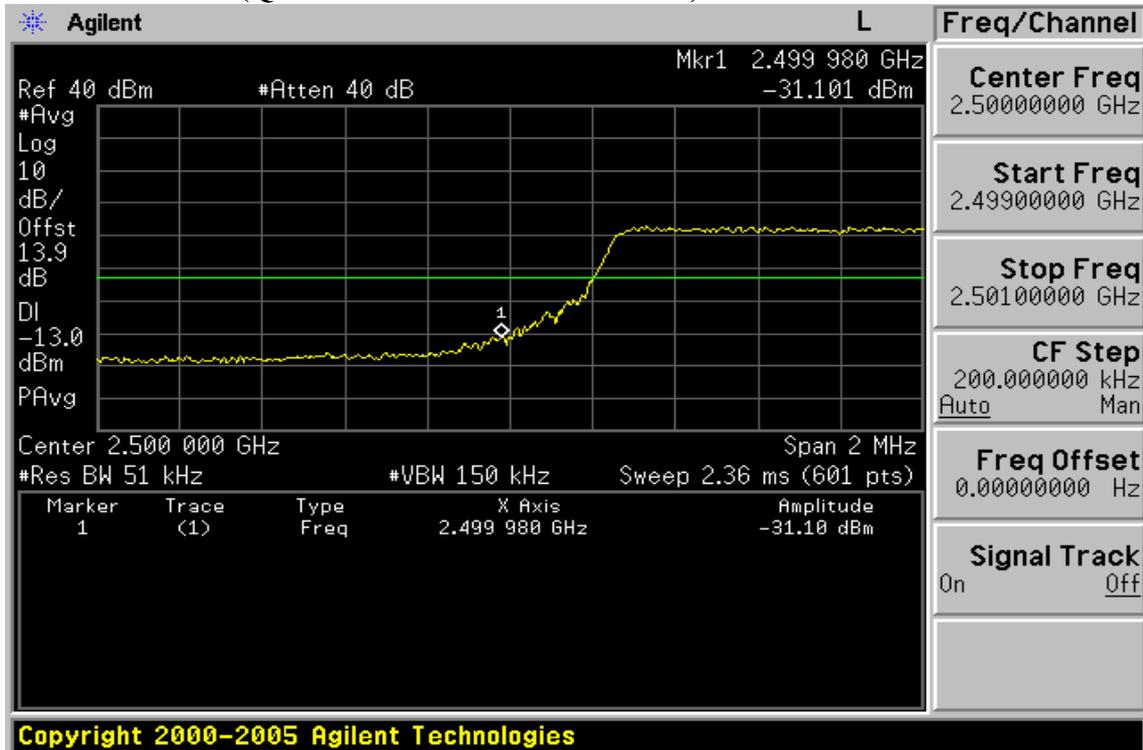
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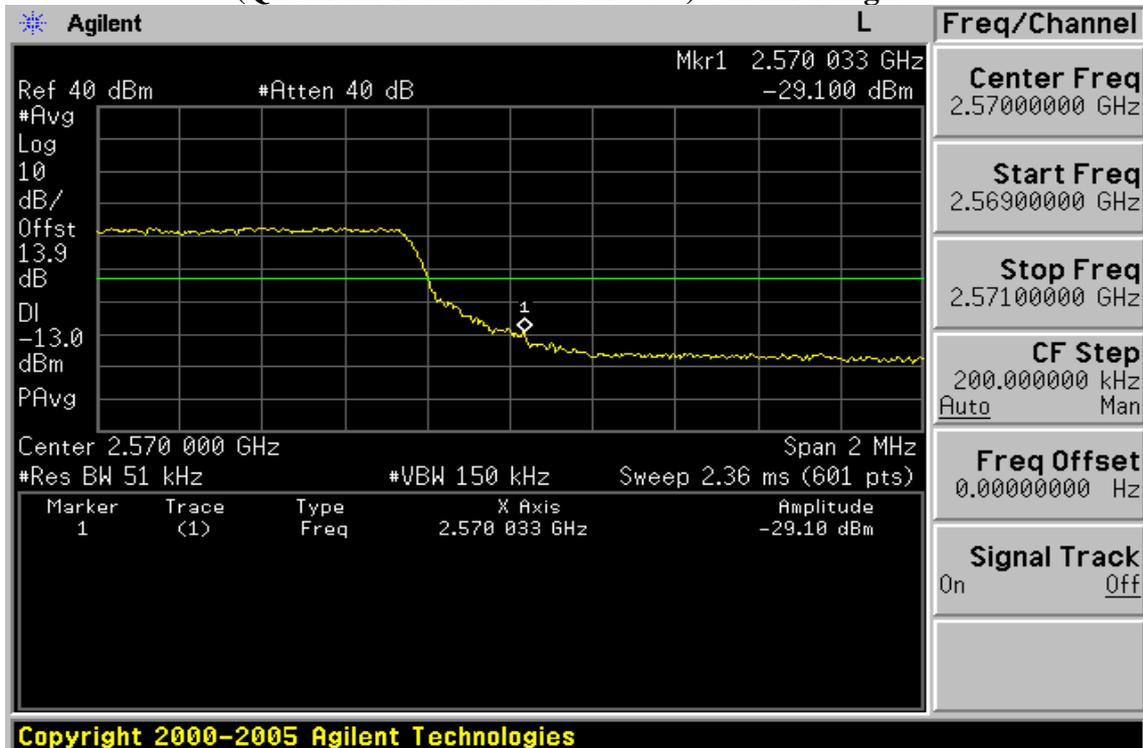
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**Band edge emission at antenna terminals –5MHz BW LTE-Band 7  
(QPSK RB Number: 25 Offset: 0) Channel Lowest**



**Band edge emission at antenna terminals –5MHz BW LTE-Band 7  
(QPSK RB Number: 25 Offset: 0) Channel Highest**



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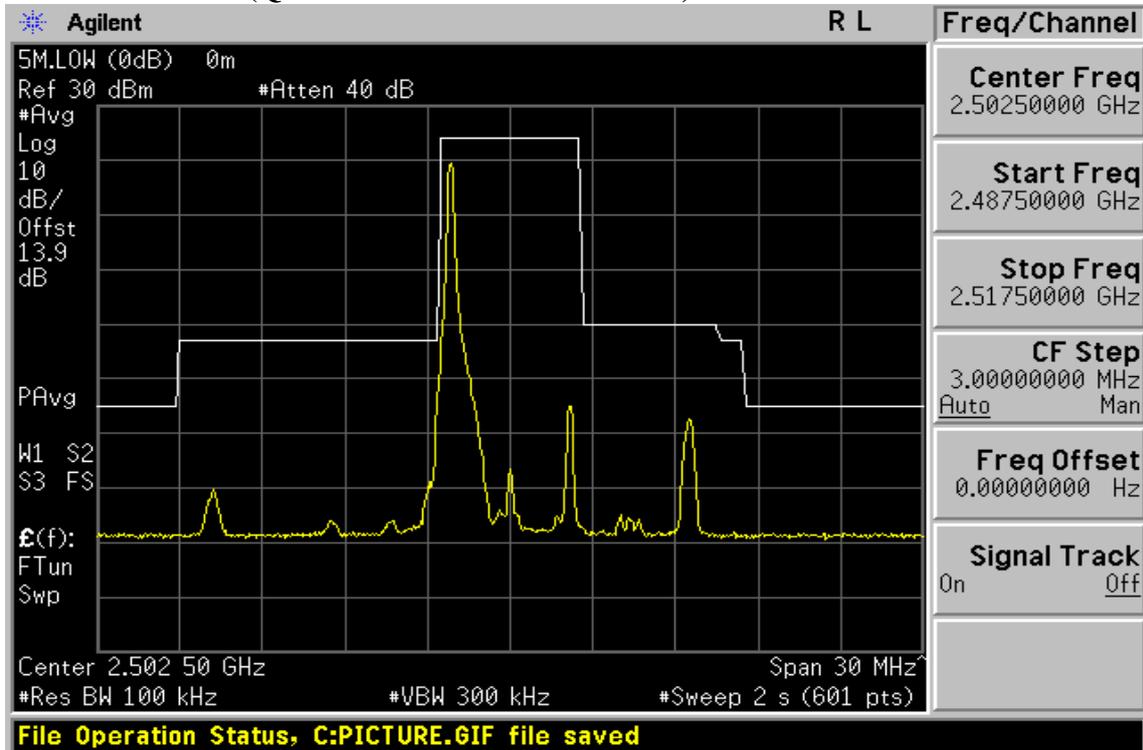
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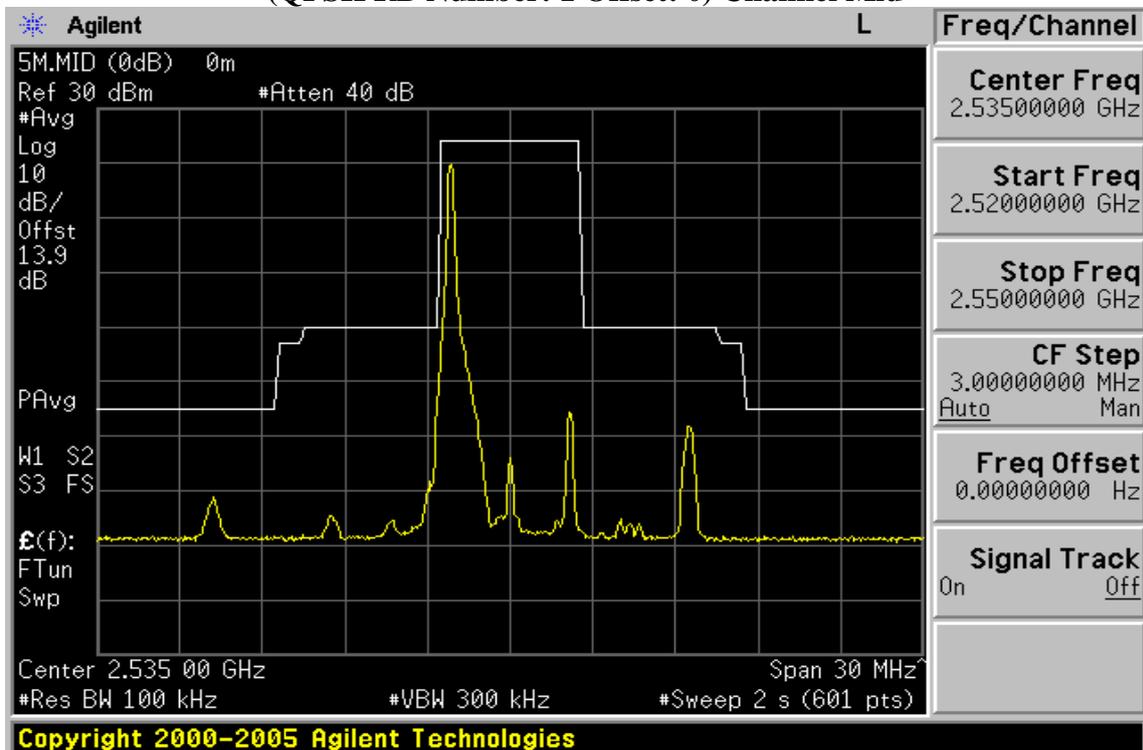
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**Emission Mask at antenna terminals –5MHz BW LTE-Band 7  
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Emission Mask at antenna terminals –5MHz BW LTE-Band 7  
(QPSK RB Number: 1 Offset: 0) Channel Mid**



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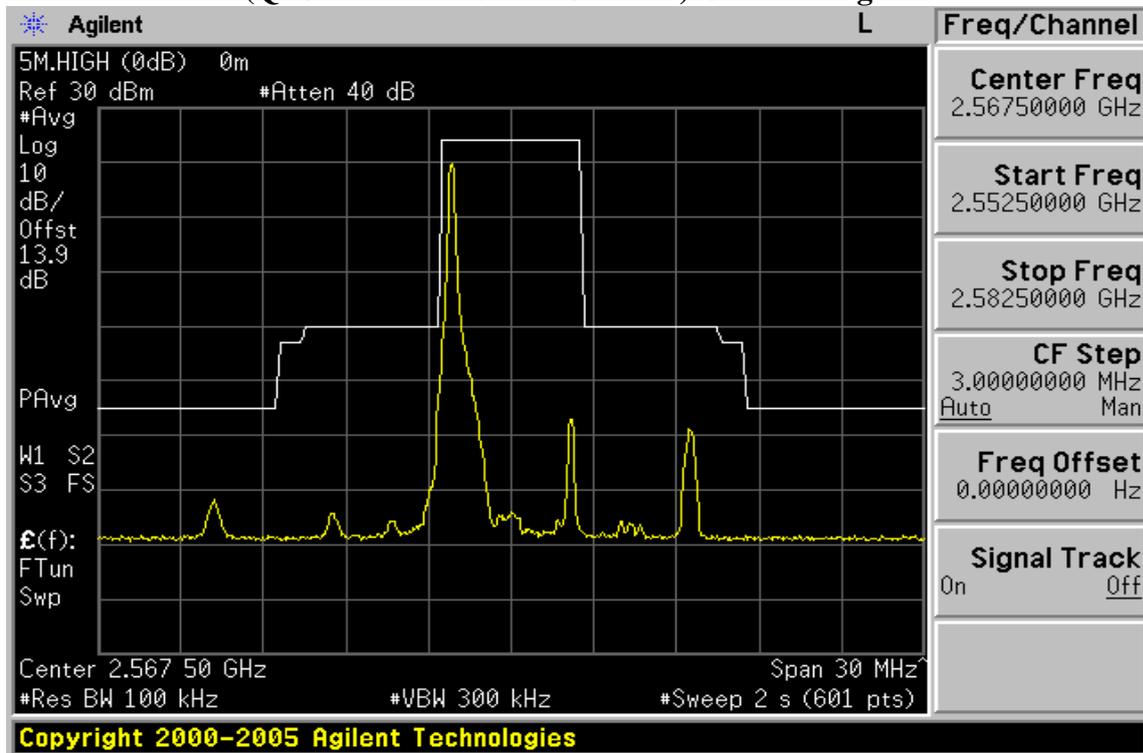
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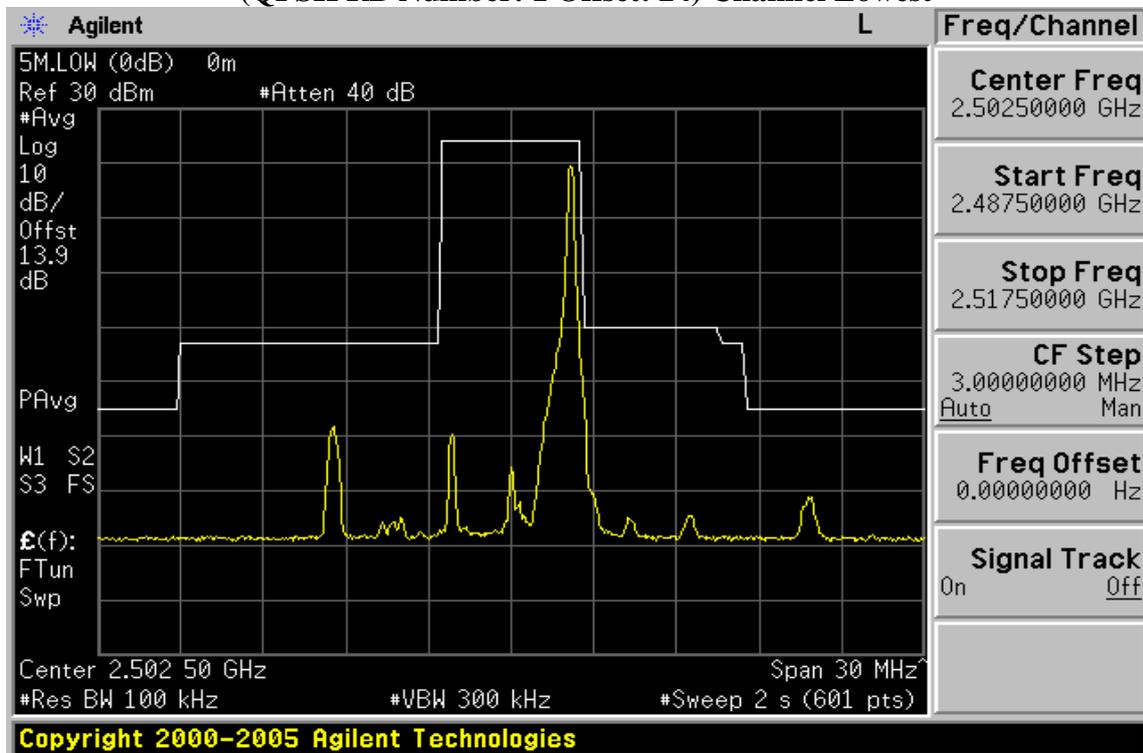
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**Emission Mask at antenna terminals –5MHz BW LTE-Band 7  
(QPSK RB Number: 1 Offset: 0) Channel Highest**



**Emission Mask at antenna terminals –5MHz BW LTE-Band 7  
(QPSK RB Number: 1 Offset: 24) Channel Lowest**



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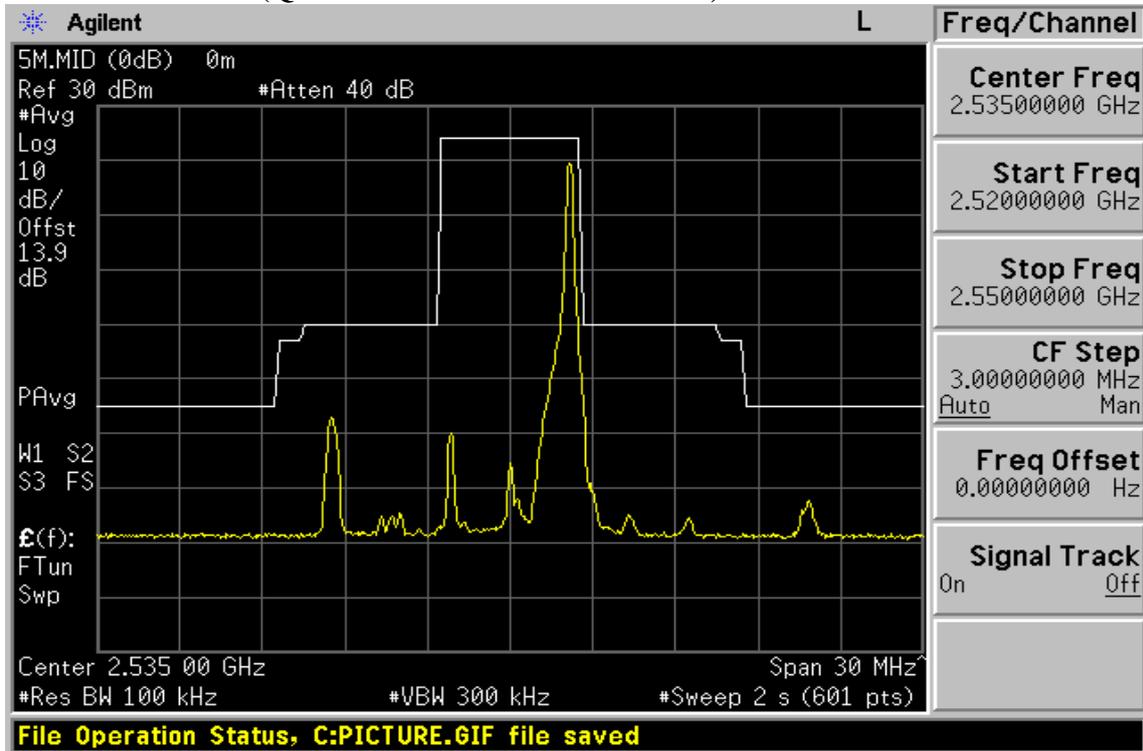
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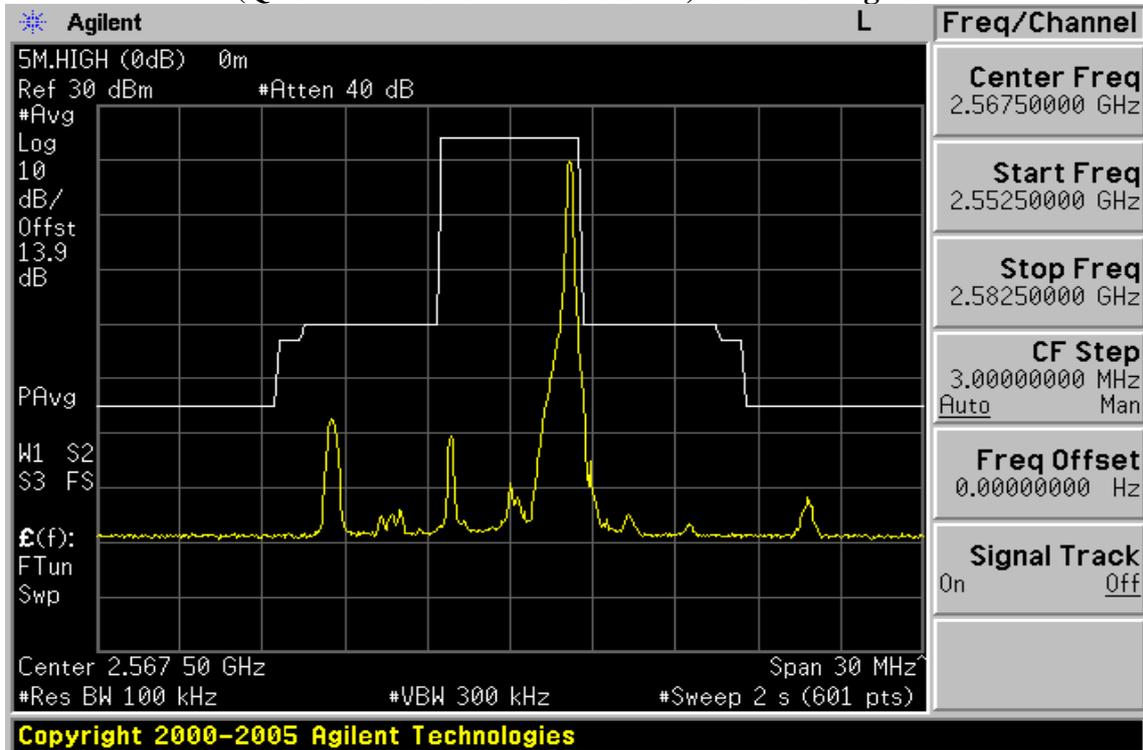
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**Emission Mask at antenna terminals –5MHz BW LTE-Band 7  
(QPSK RB Number: 1 Offset: 24) Channel Mid**



**Emission Mask at antenna terminals –5MHz BW LTE-Band 7  
(QPSK RB Number: 1 Offset: 24) Channel Highest**



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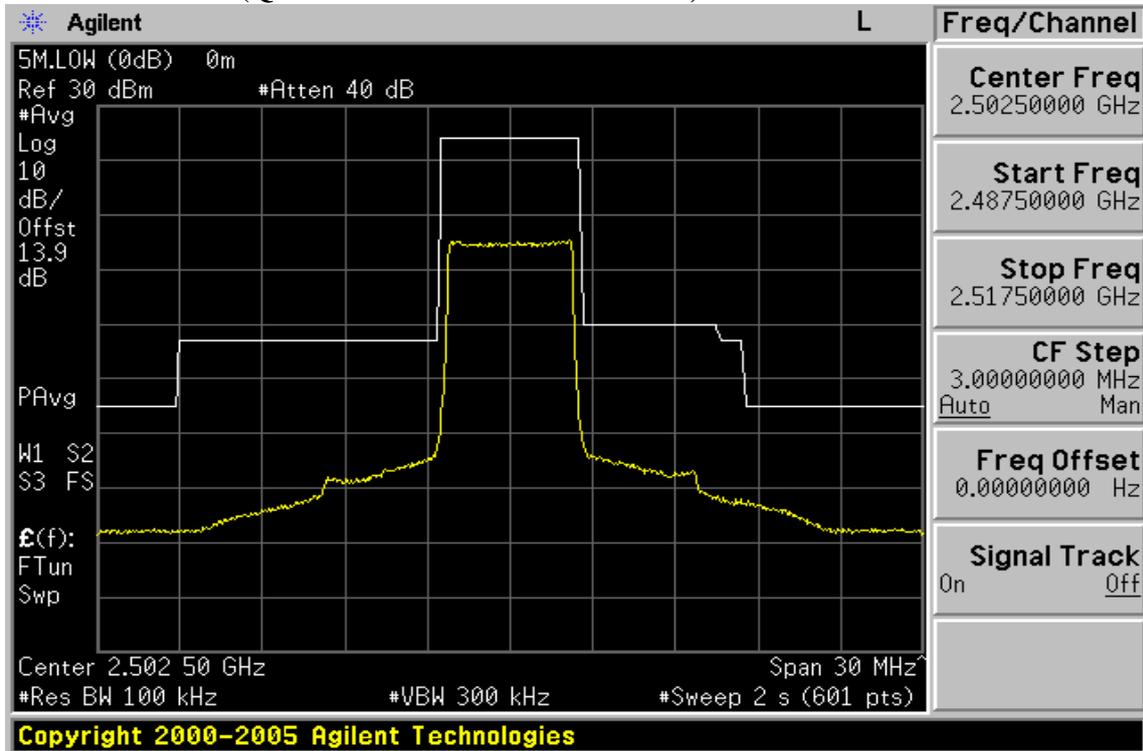
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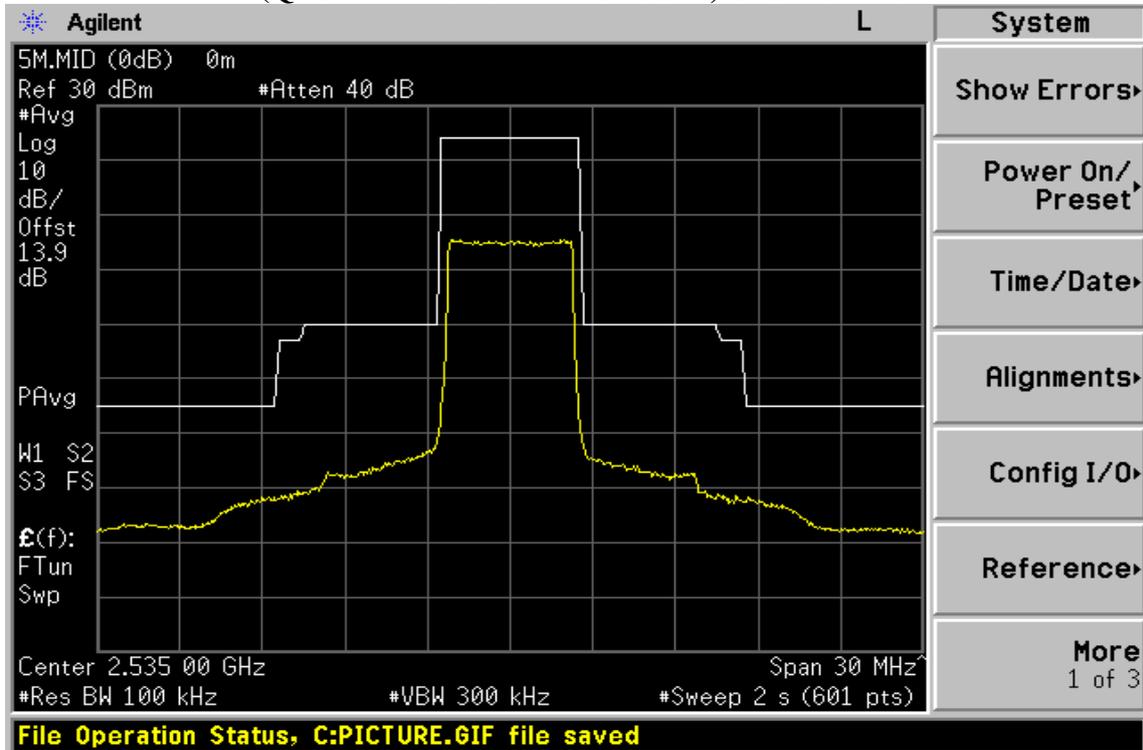
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**Emission Mask at antenna terminals –5MHz BW LTE-Band 7  
(QPSK RB Number: 25 Offset: 0) Channel Lowest**



**Emission Mask at antenna terminals –5MHz BW LTE-Band 7  
(QPSK RB Number: 25 Offset: 0) Channel Mid**



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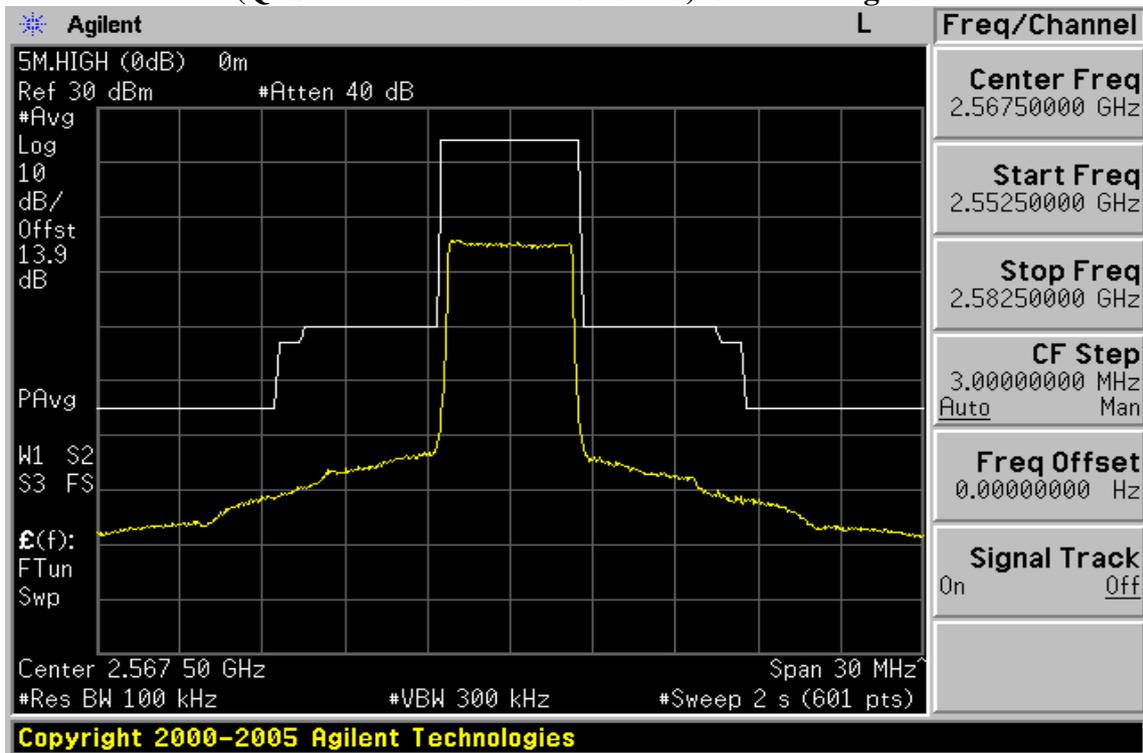
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**Emission Mask at antenna terminals –5MHz BW LTE-Band 7  
 (QPSK RB Number: 25 Offset: 0) Channel Highest**



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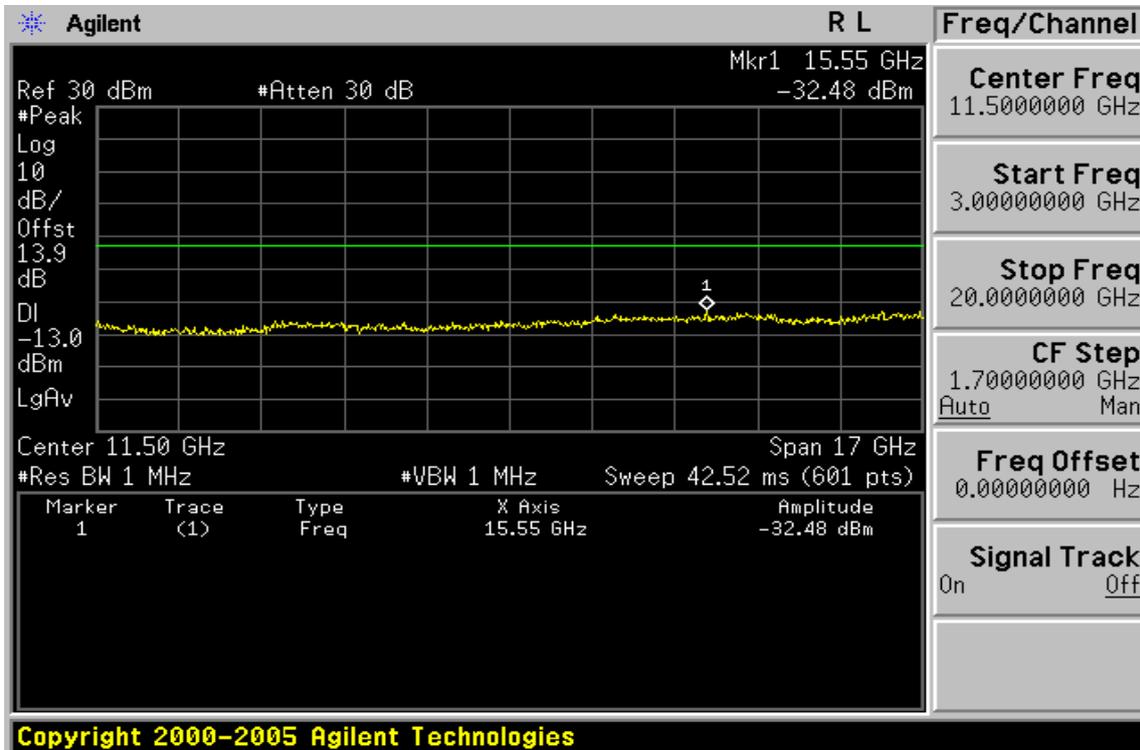
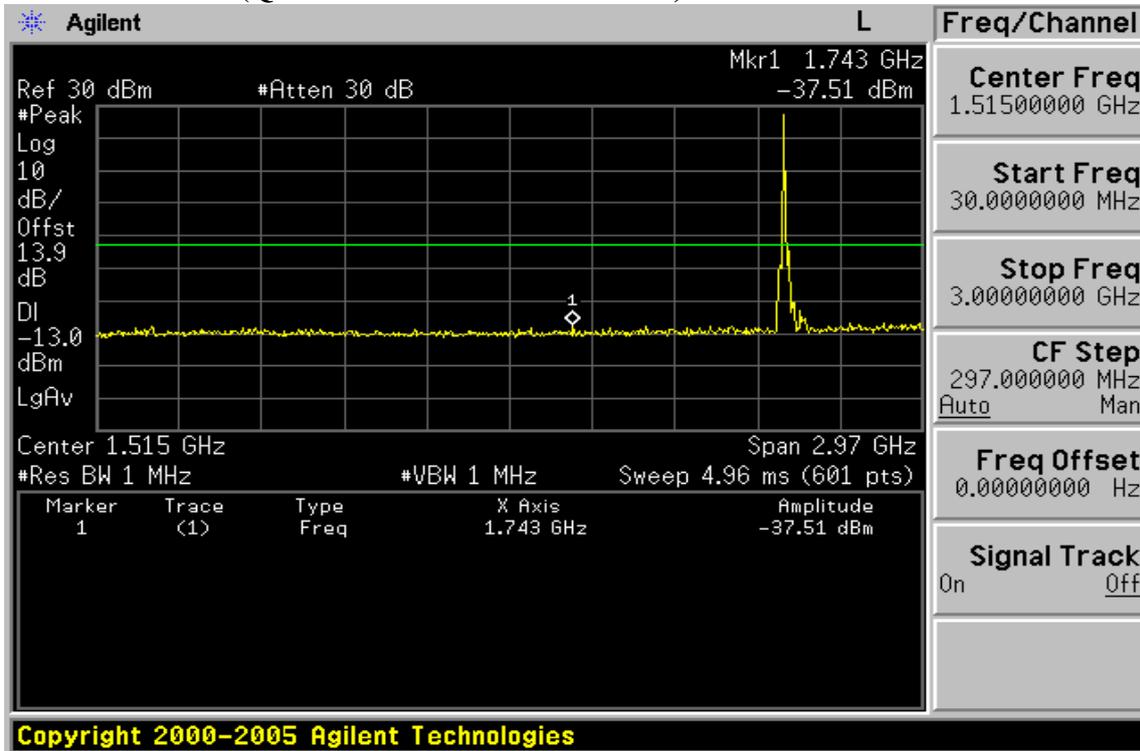
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**Out of Band emission at antenna terminals–10MHz BW LTE-Band 7  
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



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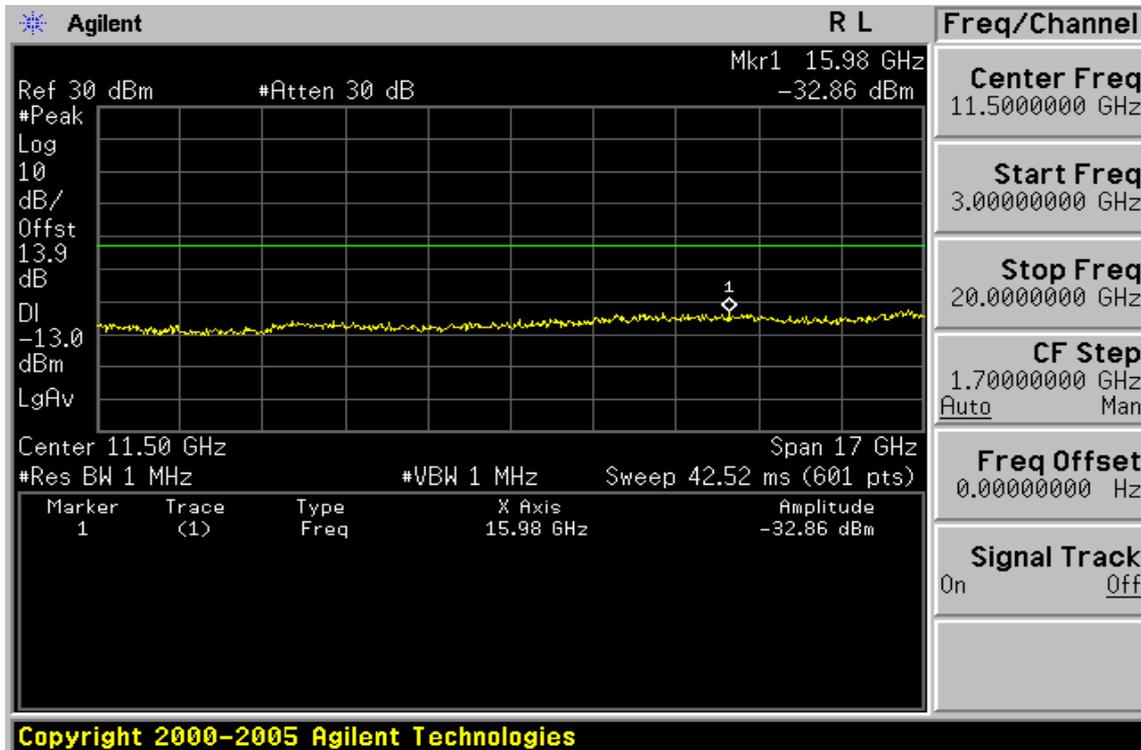
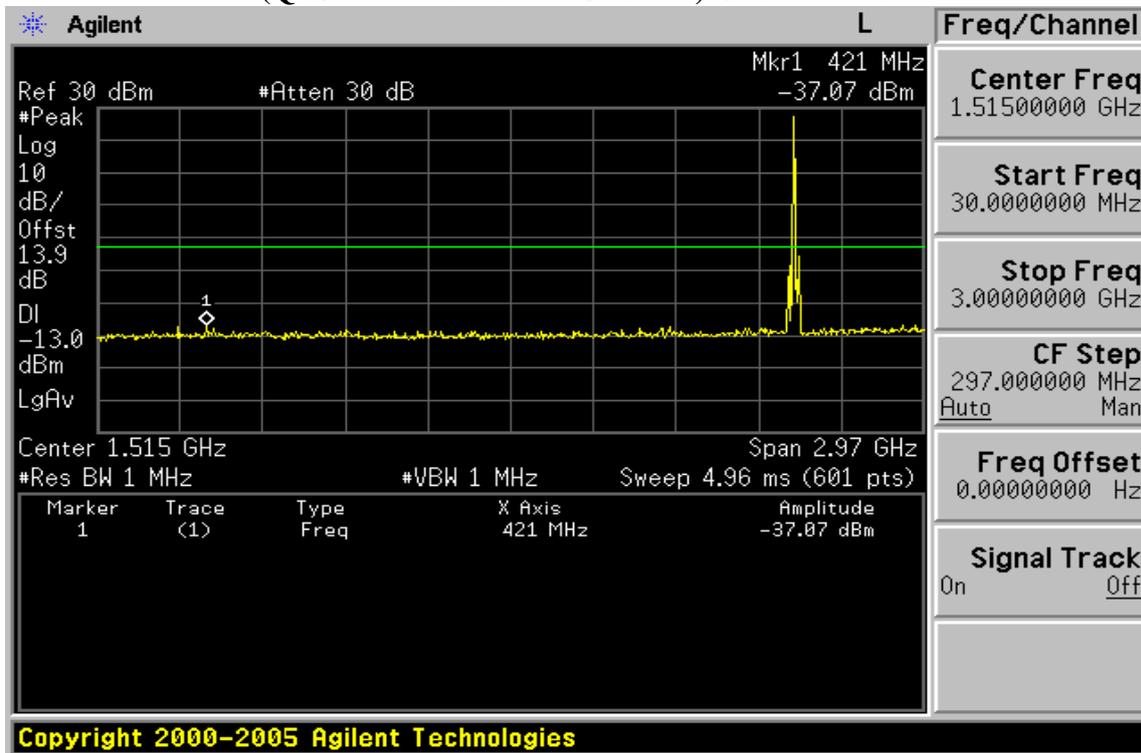
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**Out of Band emission at antenna terminals–10MHz BW LTE-Band 7  
(QPSK RB Number: 1 Offset: 0) Channel Mid**



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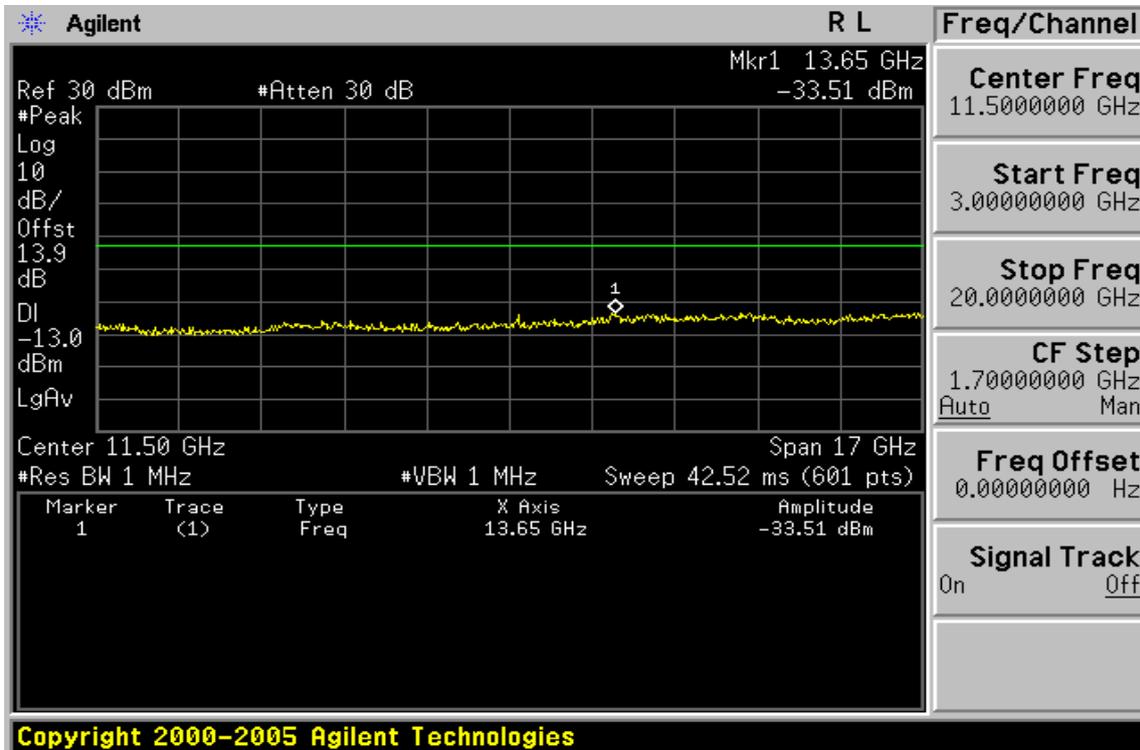
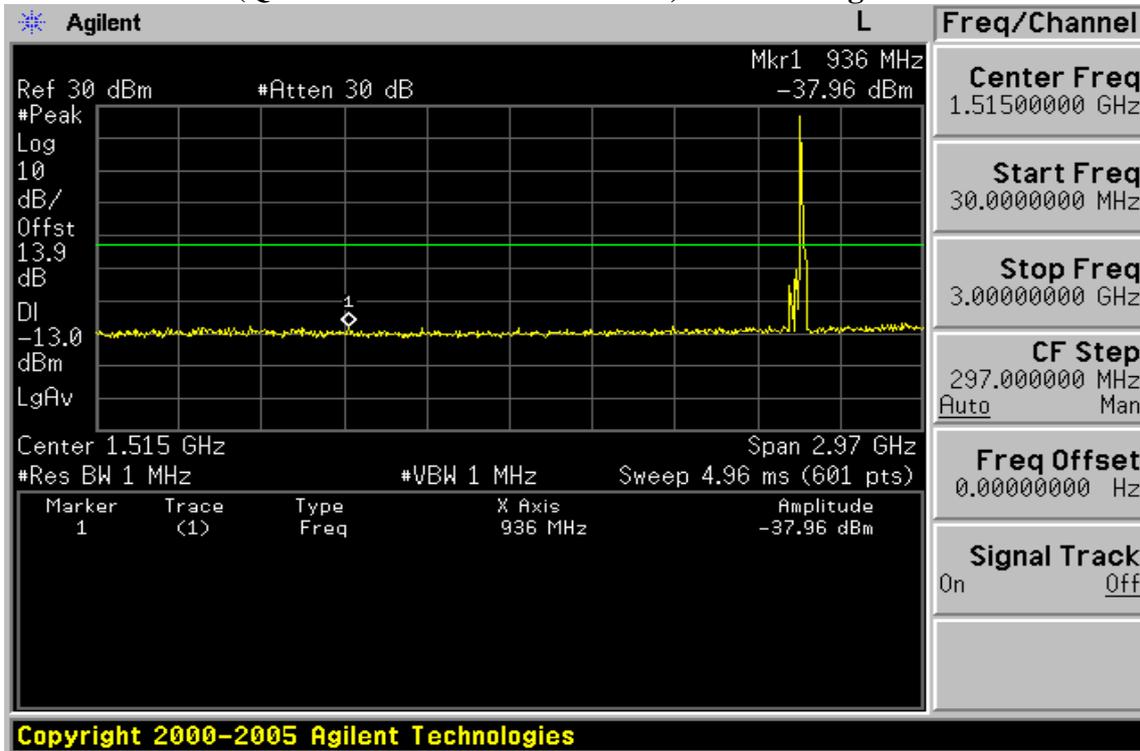
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**Out of Band emission at antenna terminals–10MHz BW LTE-Band 7  
 (QPSK RB Number: 1 Offset: 0) Channel Highest**



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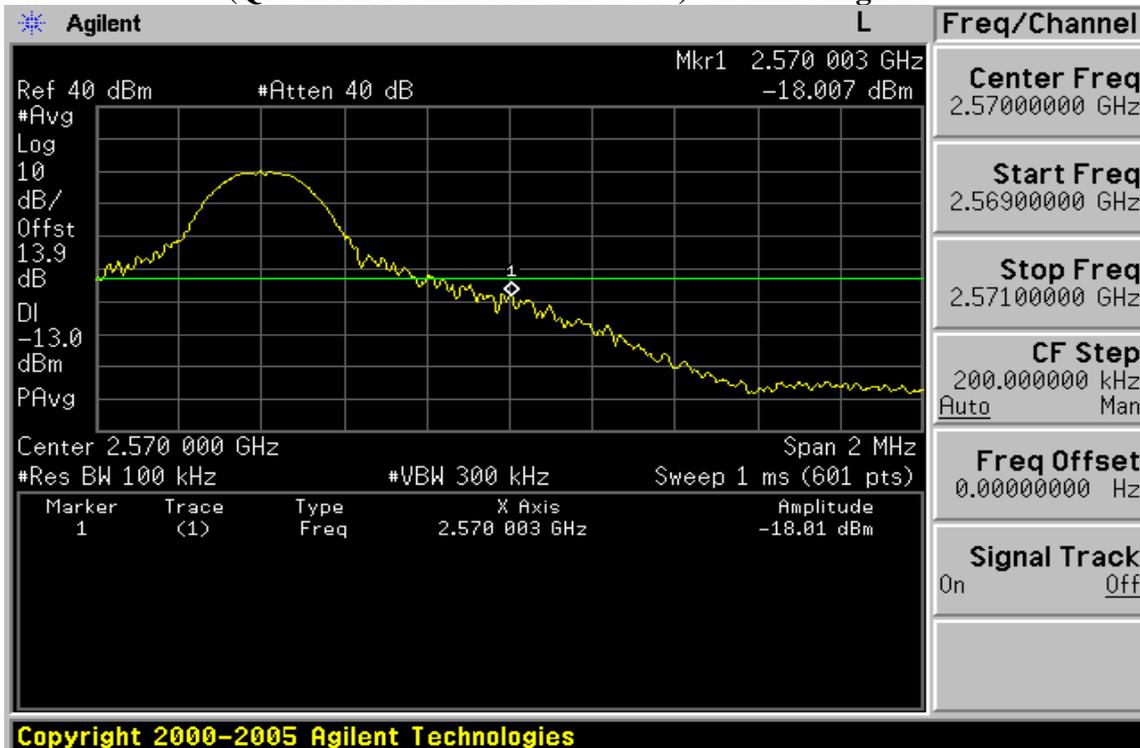
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**Band edge emission at antenna terminals –10MHz BW LTE-Band 7  
 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Band edge emission at antenna terminals –10MHz BW LTE-Band 7  
 (QPSK RB Number: 1 Offset: 49) Channel Highest**



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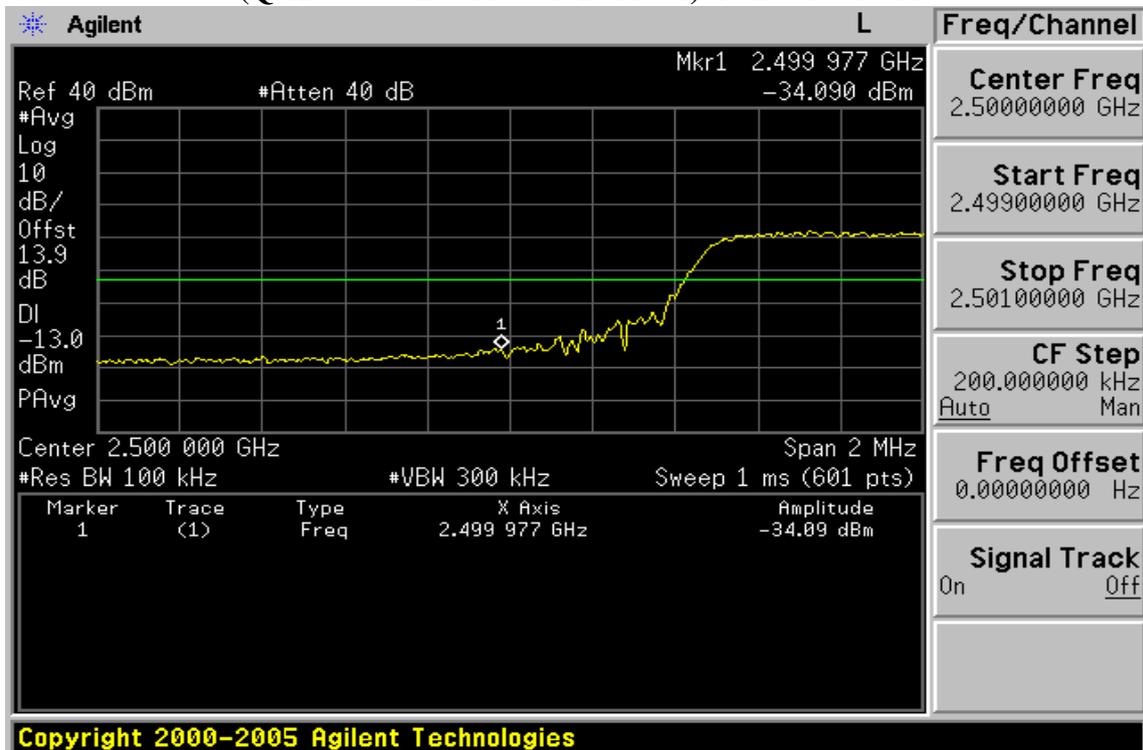
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**Band edge emission at antenna terminals -10MHz BW LTE-Band 7  
(QPSK RB Number: 50 Offset: 0) Channel Lowest**



**Band edge emission at antenna terminals -10MHz BW LTE-Band 7  
(QPSK RB Number: 50 Offset: 0) Channel Highest**



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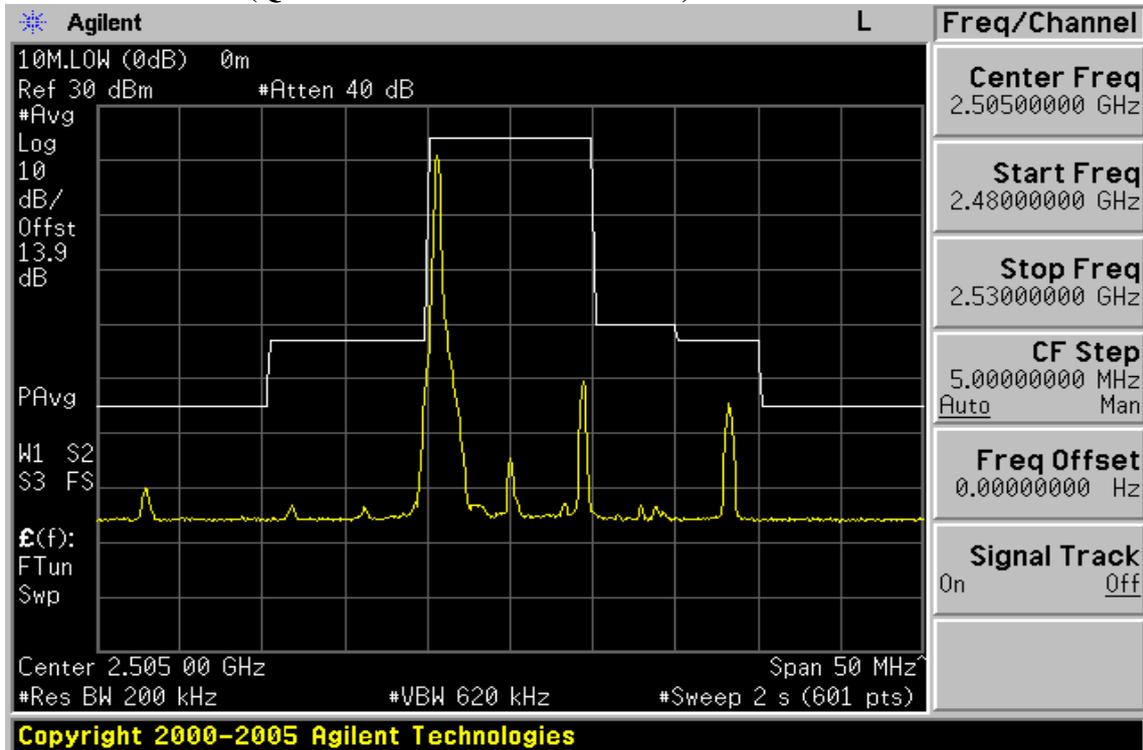
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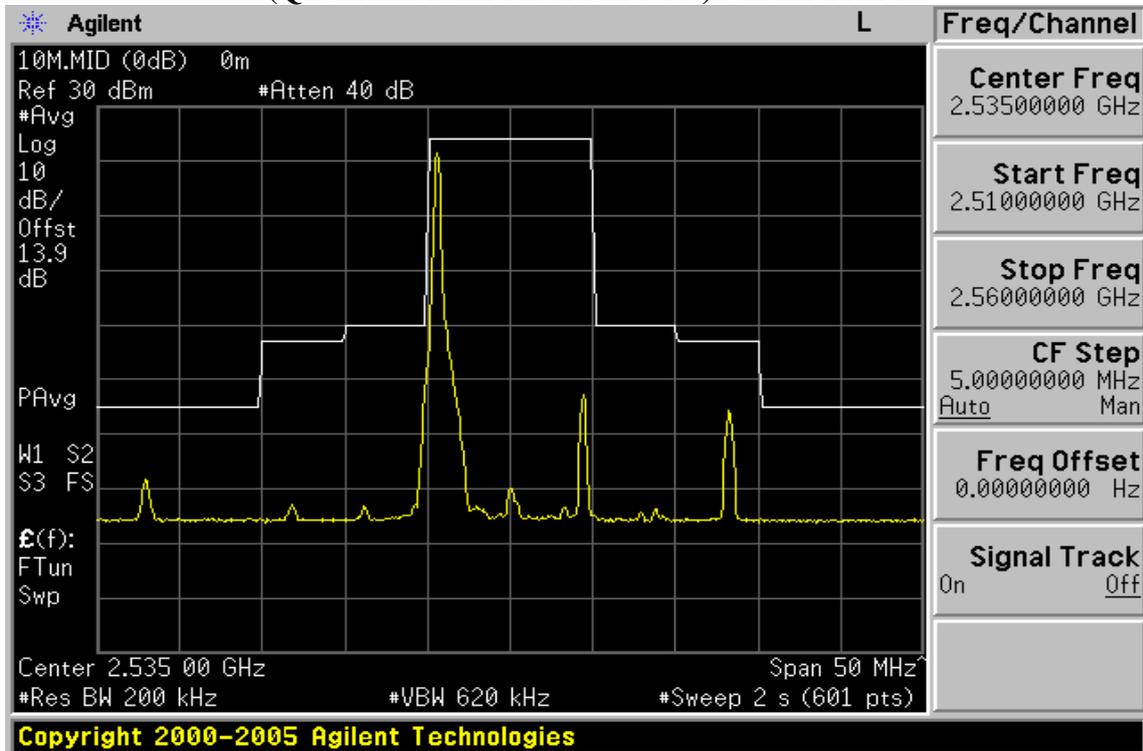
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**Emission Mask at antenna terminals –10MHz BW LTE-Band 7  
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Emission Mask at antenna terminals –10MHz BW LTE-Band 7  
(QPSK RB Number: 1 Offset: 0) Channel Mid**



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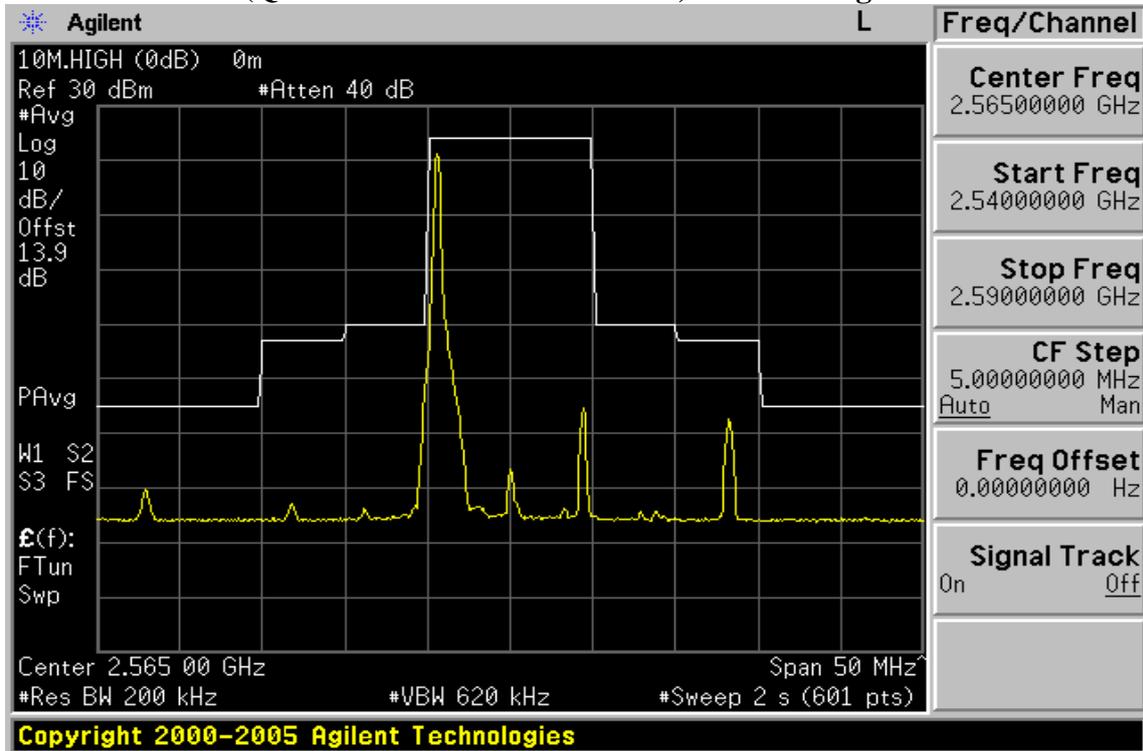
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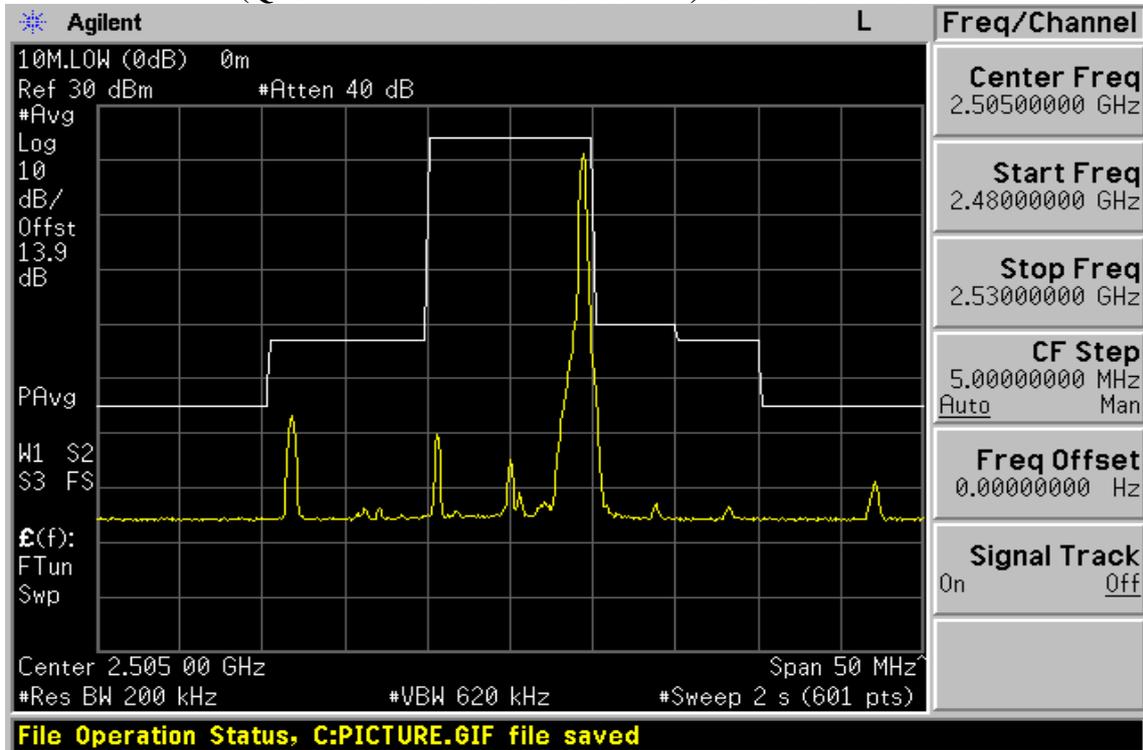
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**Emission Mask at antenna terminals –10MHz BW LTE-Band 7  
(QPSK RB Number: 1 Offset: 0) Channel Highest**



**Emission Mask at antenna terminals –10MHz BW LTE-Band 7  
(QPSK RB Number: 1 Offset: 49) Channel Lowest**



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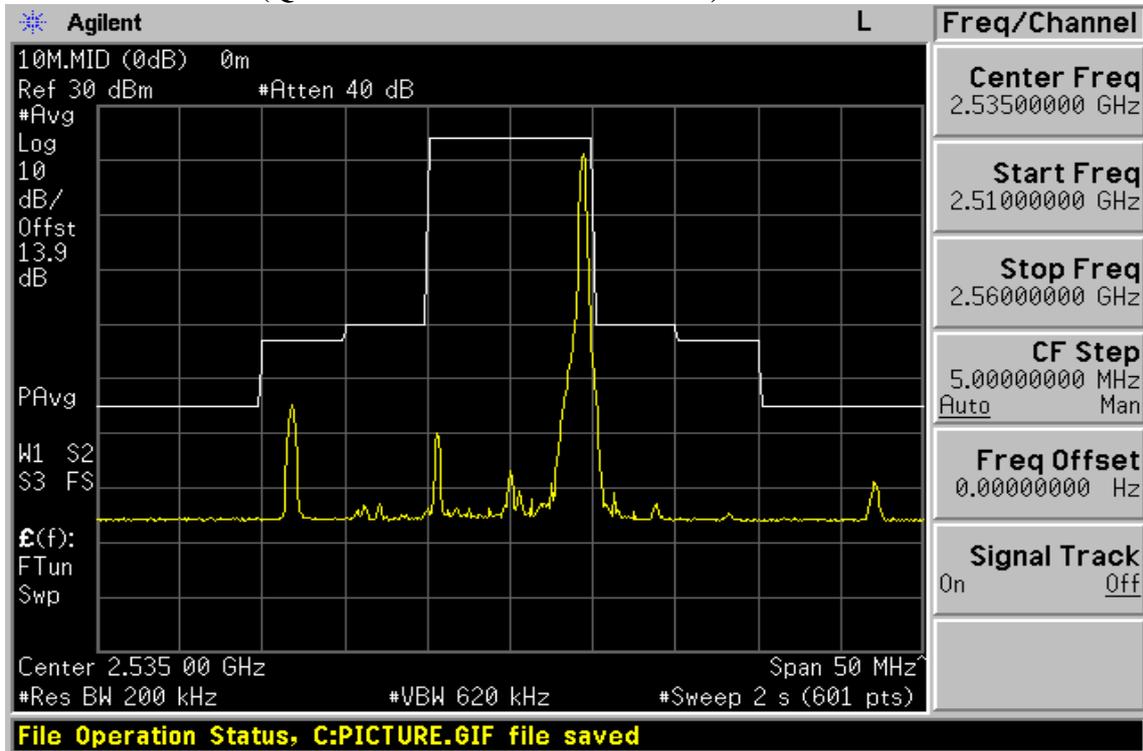
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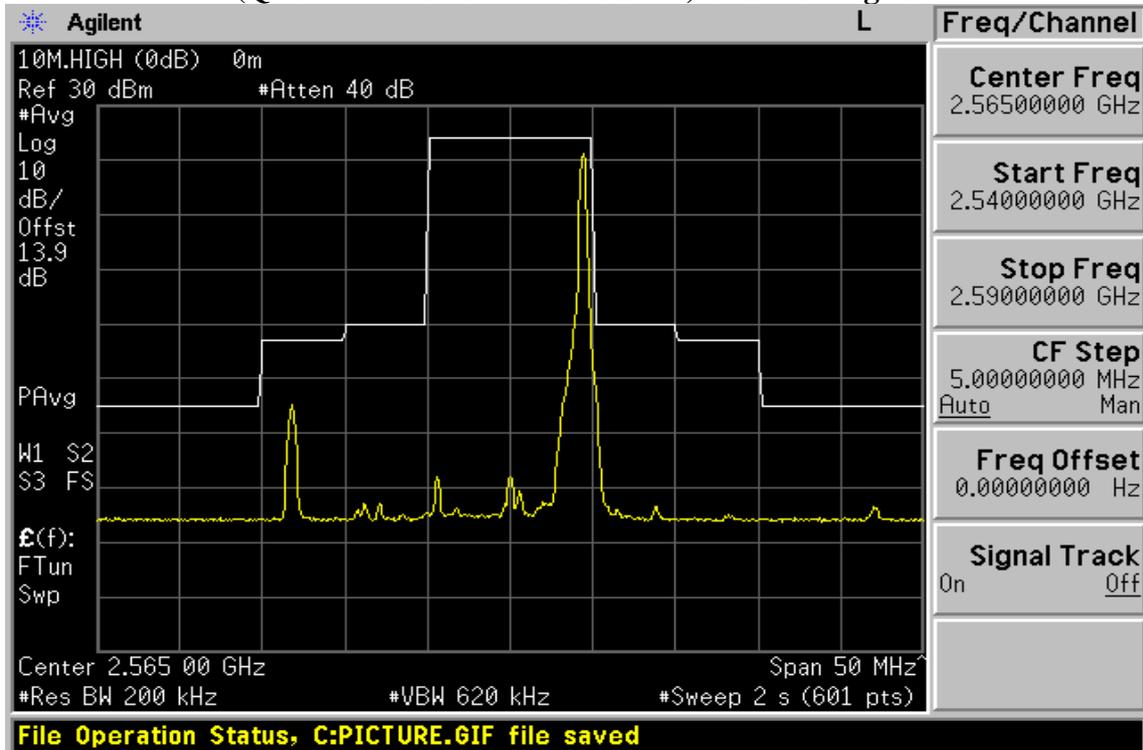
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**Emission Mask at antenna terminals –10MHz BW LTE-Band 7  
(QPSK RB Number: 1 Offset: 49) Channel Mid**



**Emission Mask at antenna terminals –10MHz BW LTE-Band 7  
(QPSK RB Number: 1 Offset: 49) Channel Highest**



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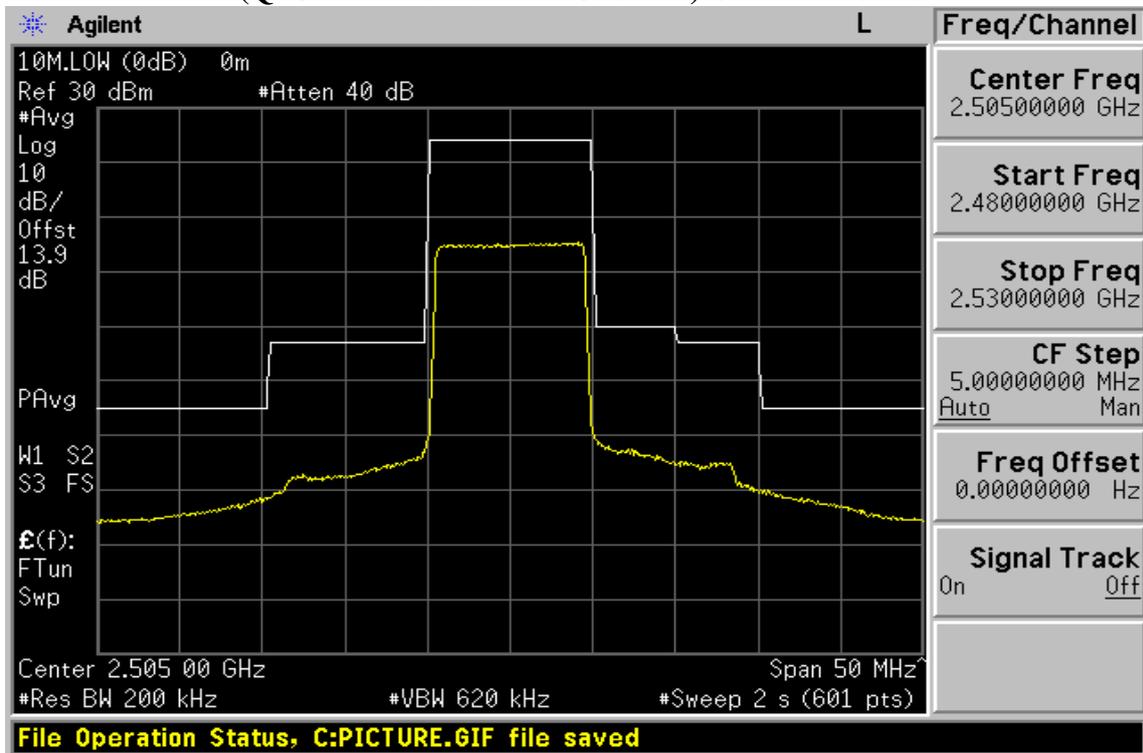
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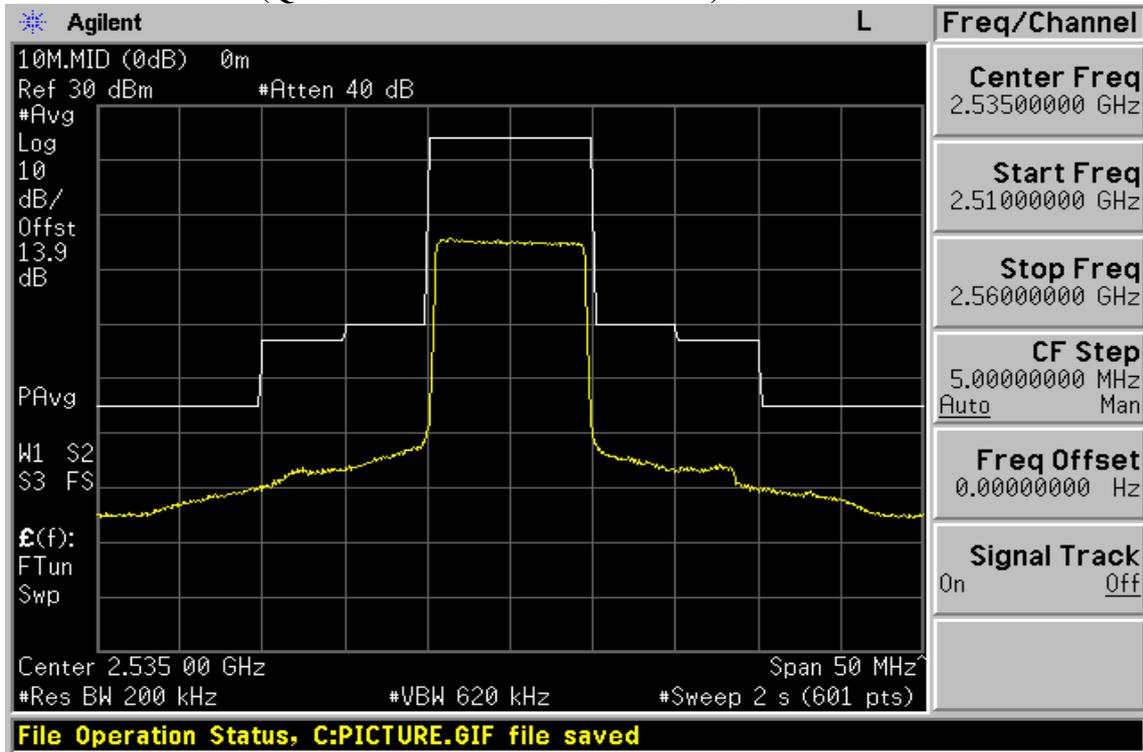
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**Emission Mask at antenna terminals –10MHz BW LTE-Band 7  
(QPSK RB Number: 50 Offset: 0) Channel Lowest**



**Emission Mask at antenna terminals –10MHz BW LTE-Band 7  
(QPSK RB Number: 50 Offset: 0) Channel Mid**



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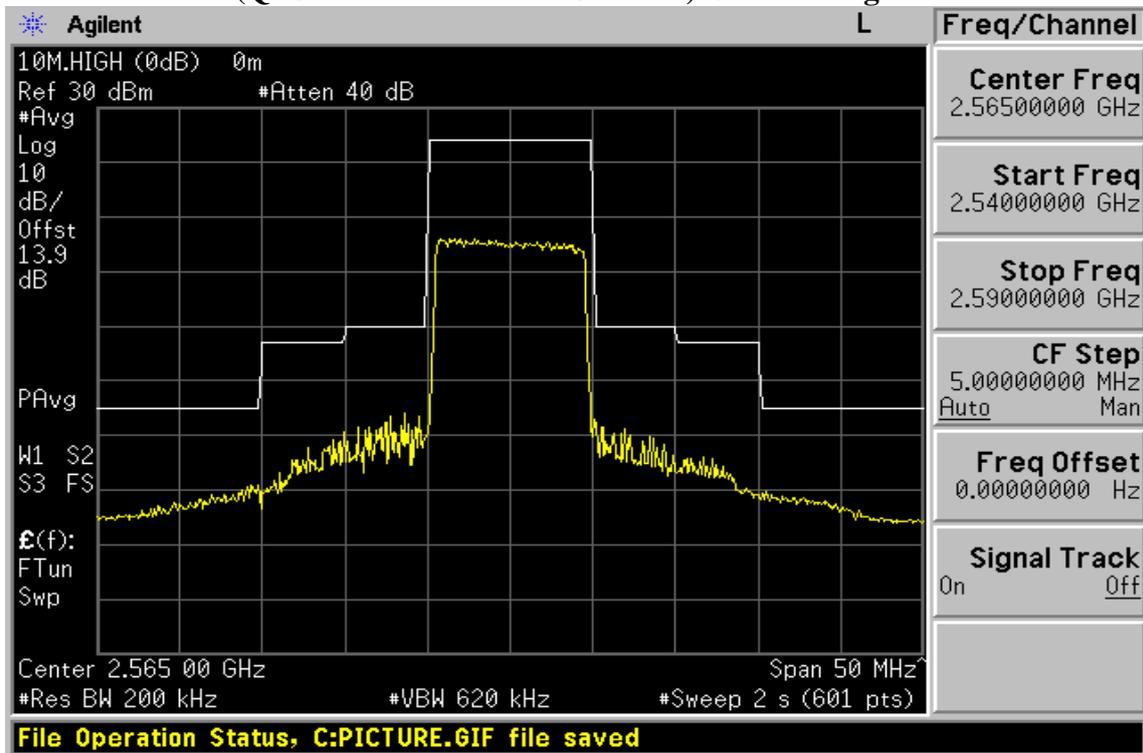
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**Emission Mask at antenna terminals –10MHz BW LTE-Band 7  
 (QPSK RB Number: 50 Offset: 0) Channel Highest**



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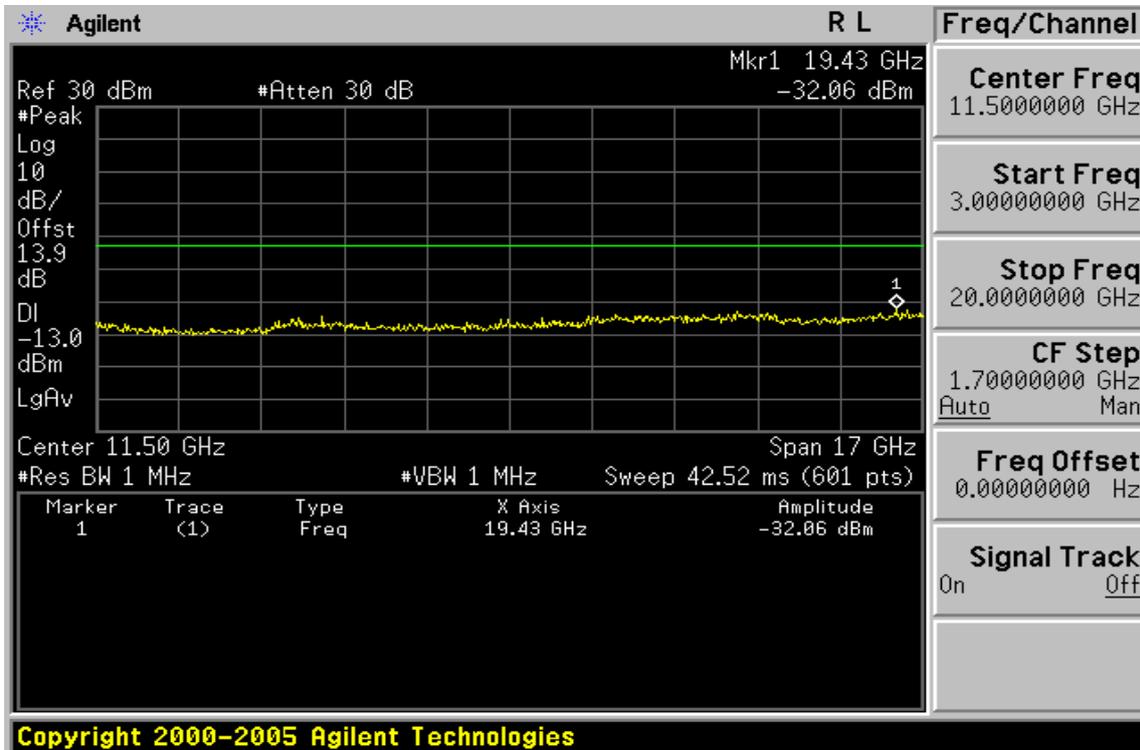
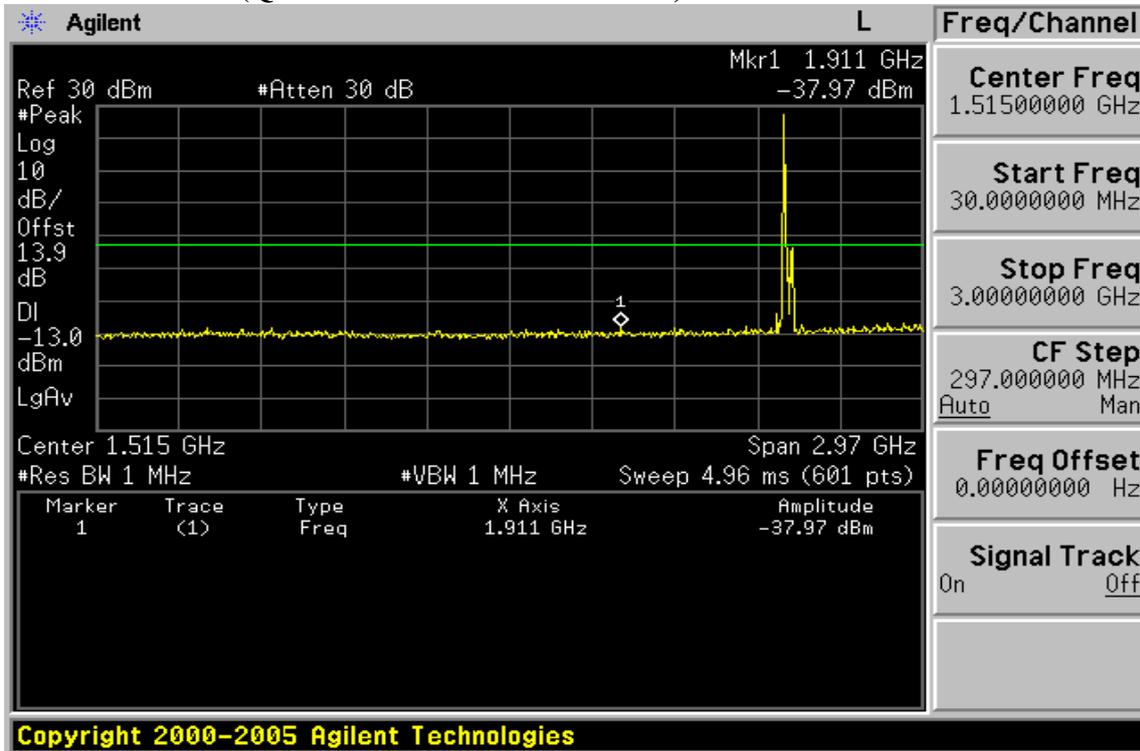
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**Out of Band emission at antenna terminals–15MHz BW LTE-Band 7  
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



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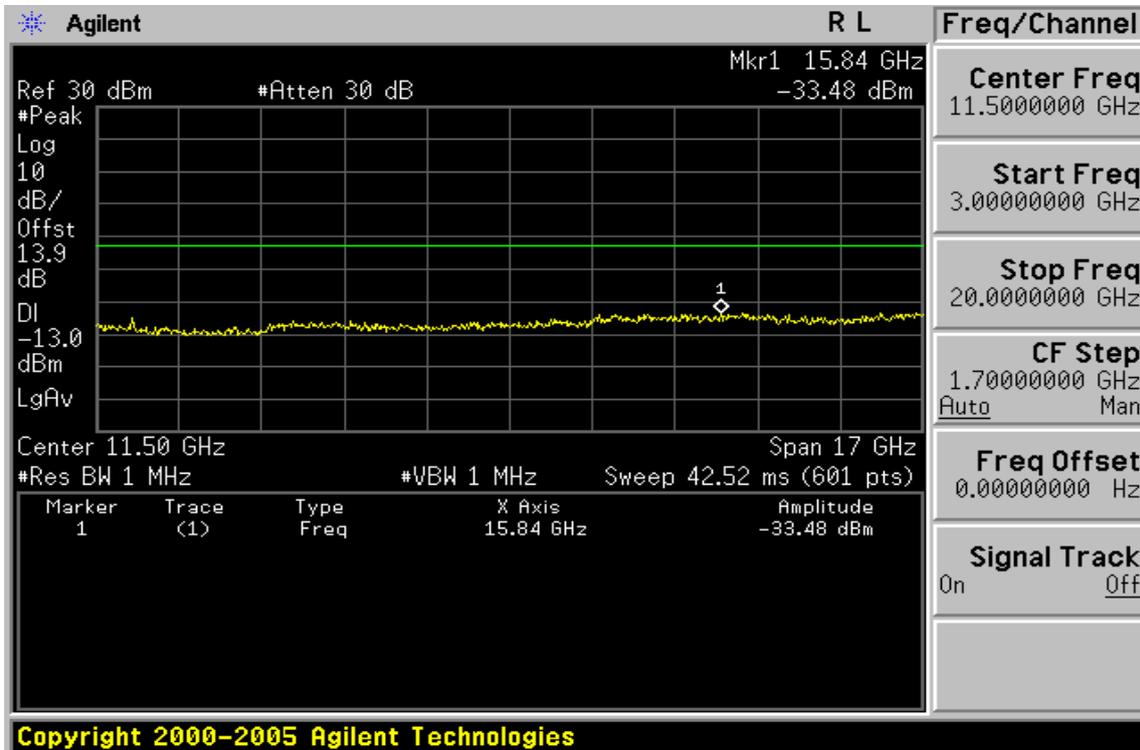
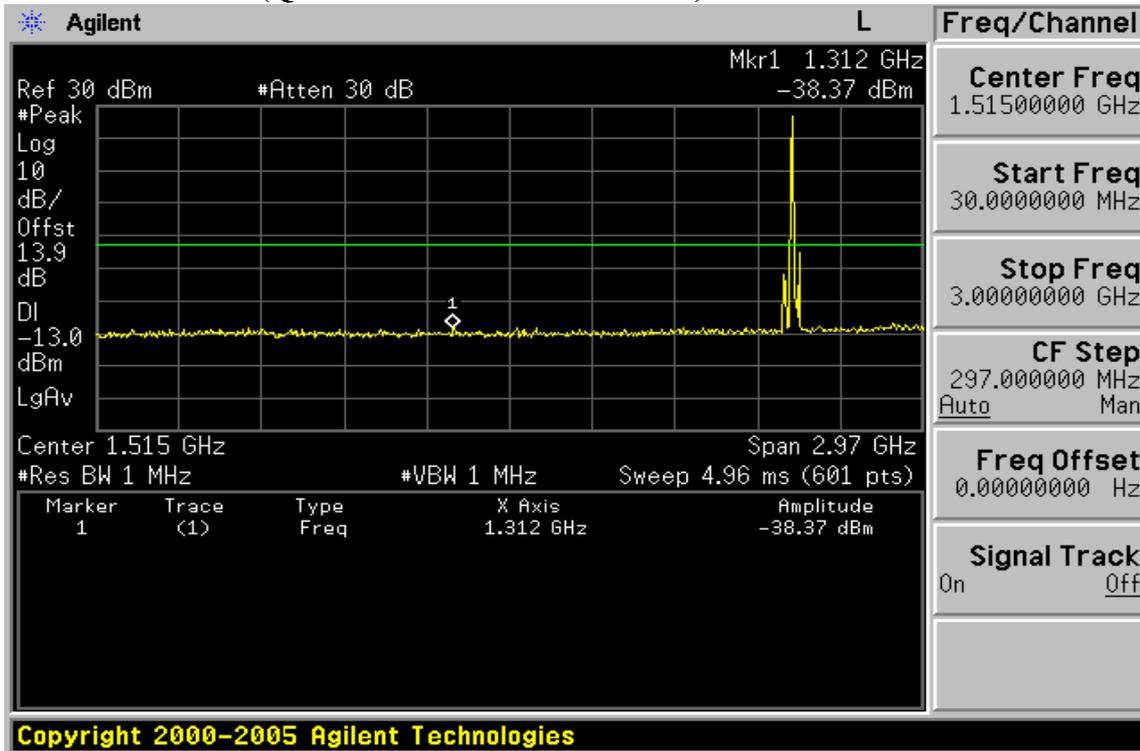
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**Out of Band emission at antenna terminals–15MHz BW LTE-Band 7  
(QPSK RB Number: 1 Offset: 0) Channel Mid**



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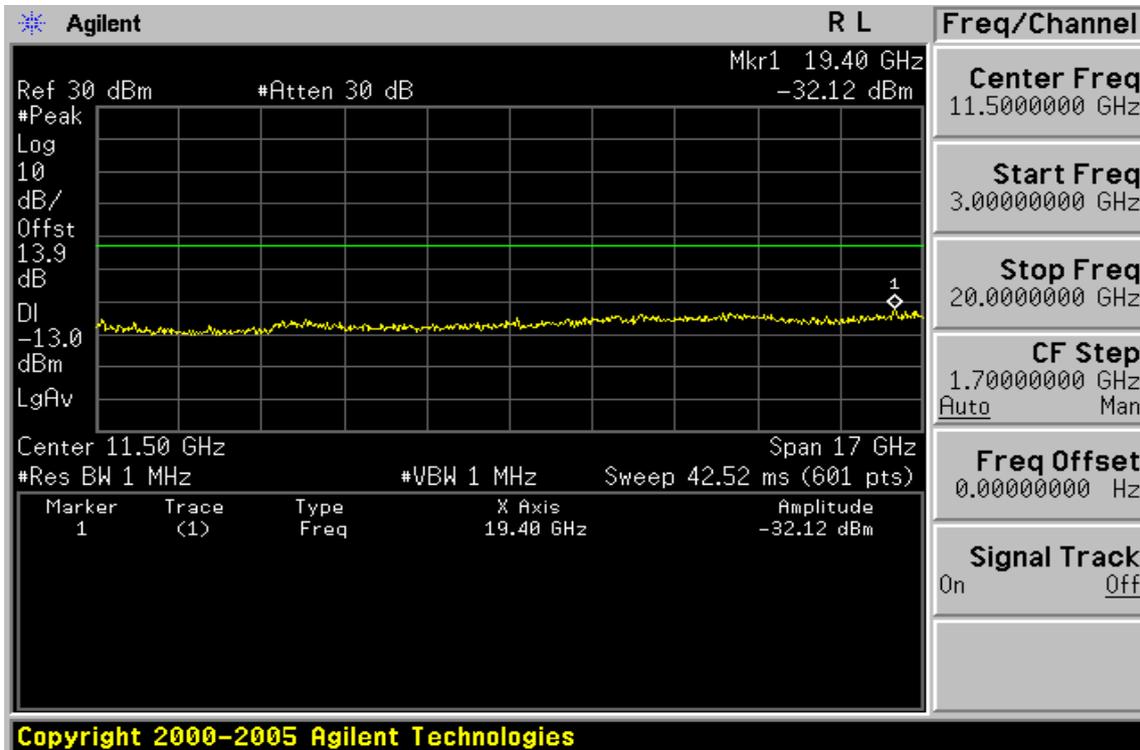
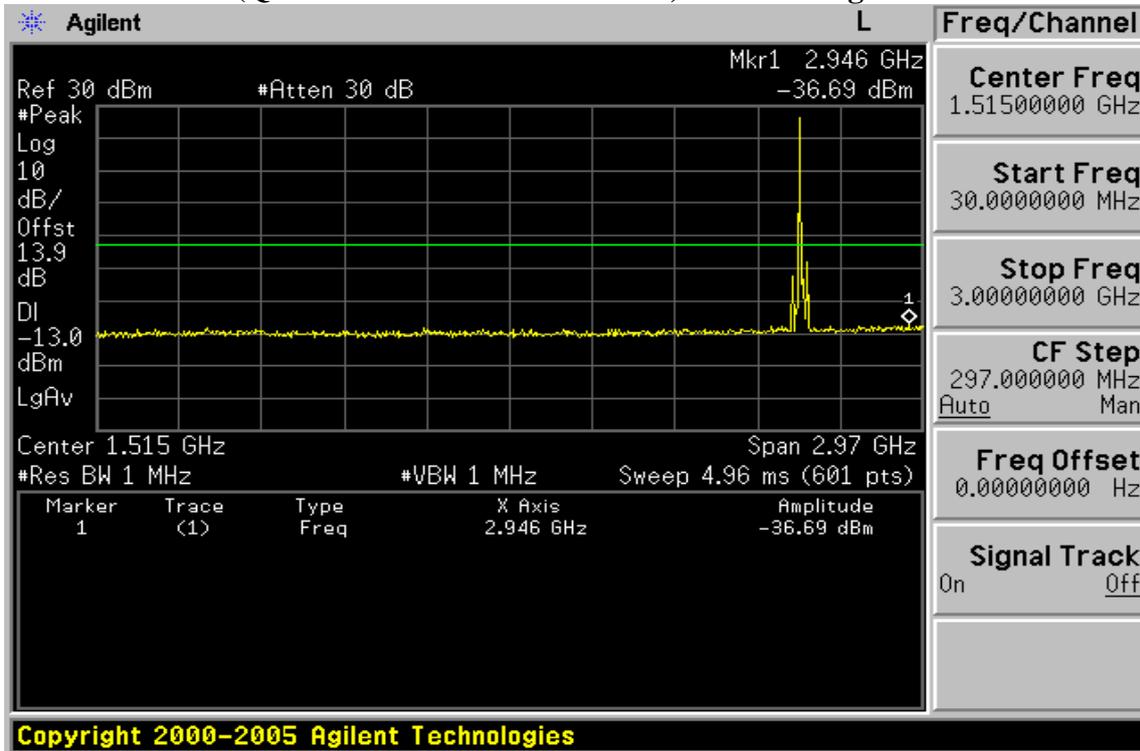
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**Out of Band emission at antenna terminals–15MHz BW LTE-Band 7  
(QPSK RB Number: 1 Offset: 0) Channel Highest**



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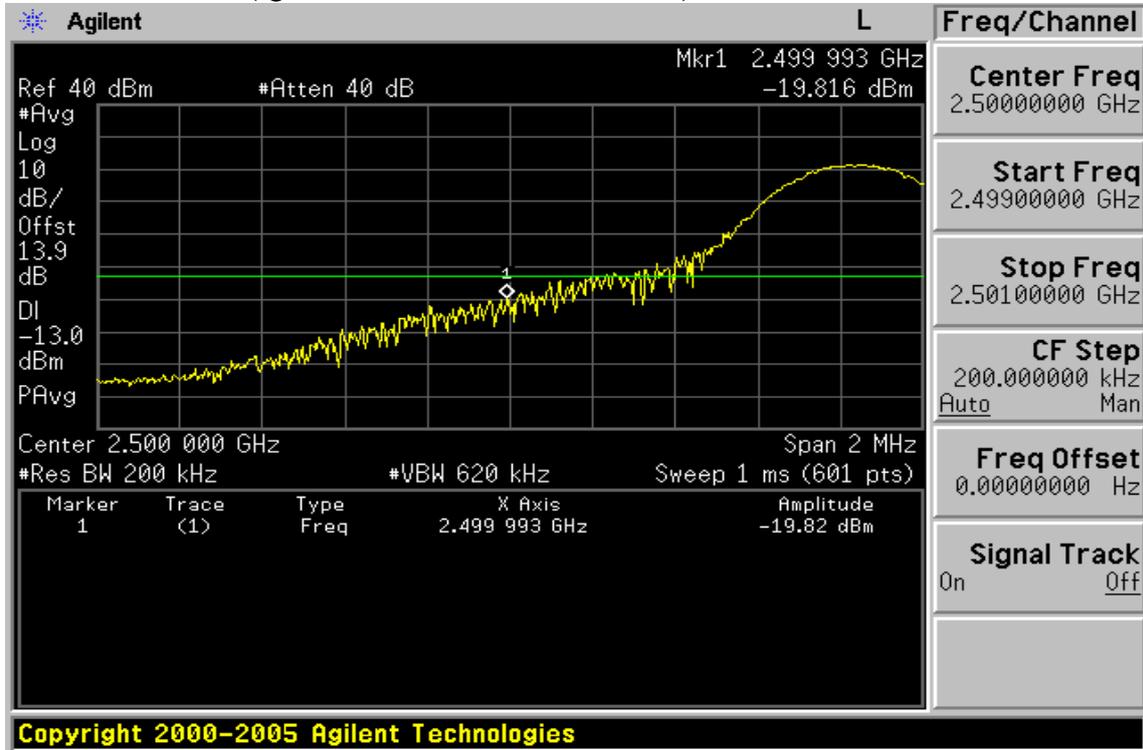
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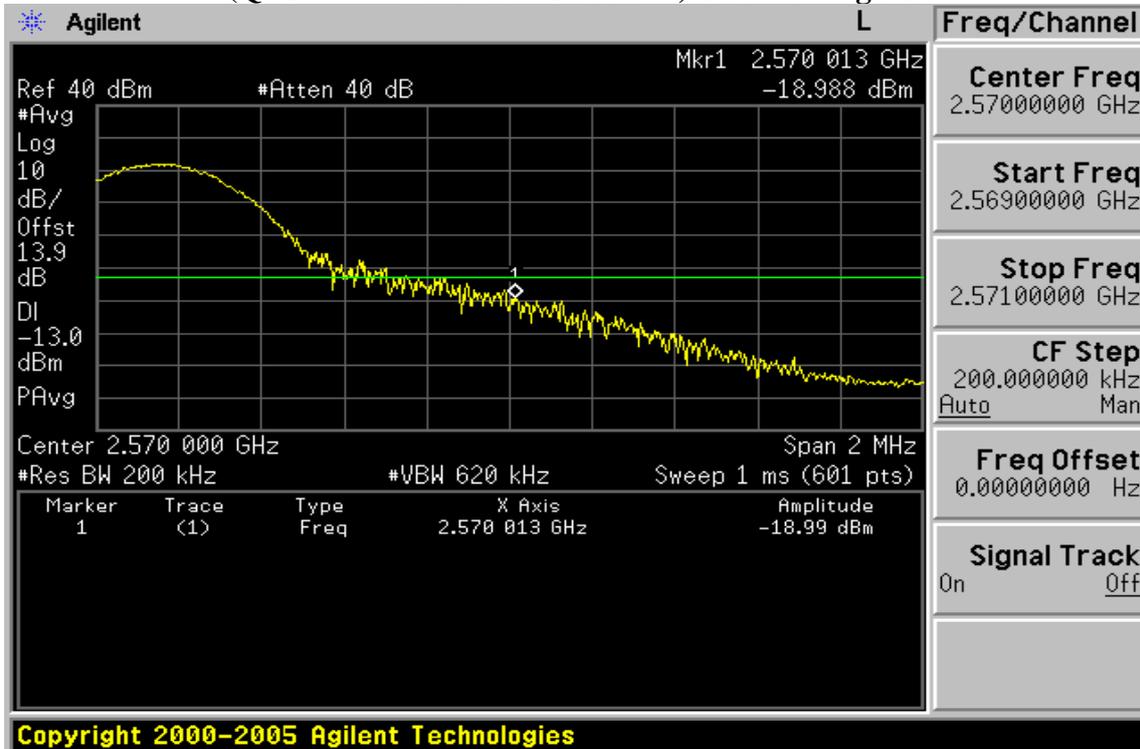
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**Band edge emission at antenna terminals –15MHz BW LTE-Band 7  
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Band edge emission at antenna terminals –15MHz BW LTE-Band 7  
(QPSK RB Number: 1 Offset: 74) Channel Highest**



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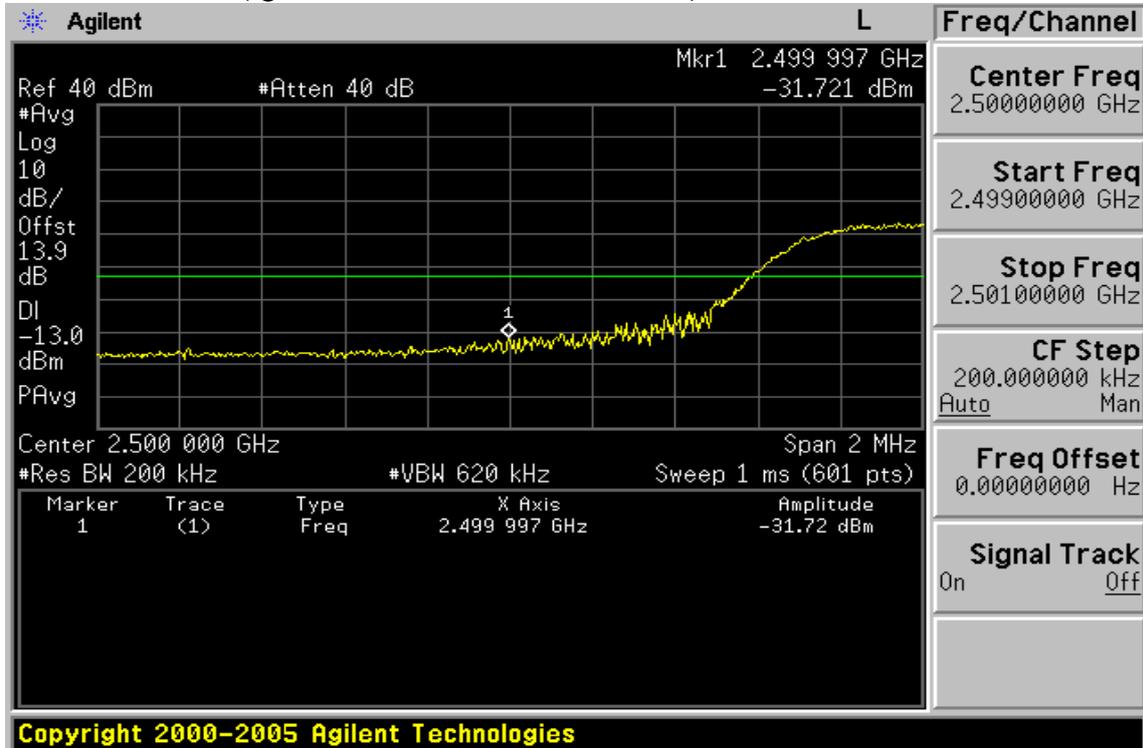
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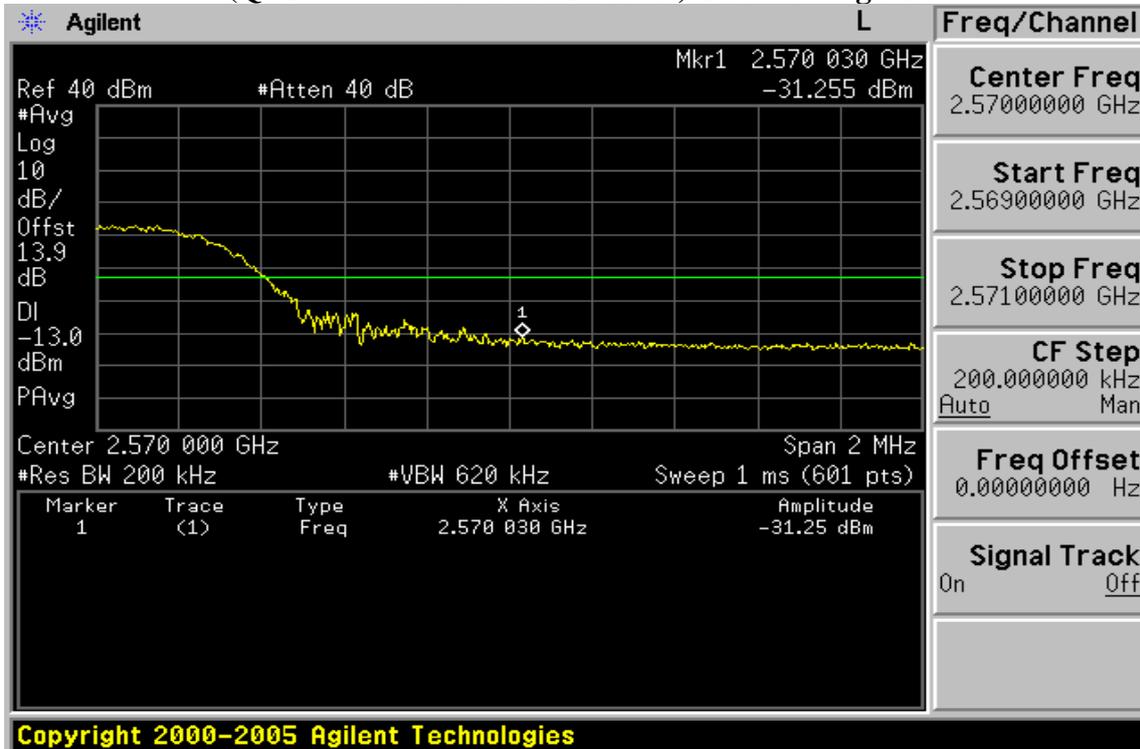
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**Band edge emission at antenna terminals –15MHz BW LTE-Band 7  
(QPSK RB Number: 75 Offset: 0) Channel Lowest**



**Band edge emission at antenna terminals –15MHz BW LTE-Band 7  
(QPSK RB Number: 75 Offset: 0) Channel Highest**



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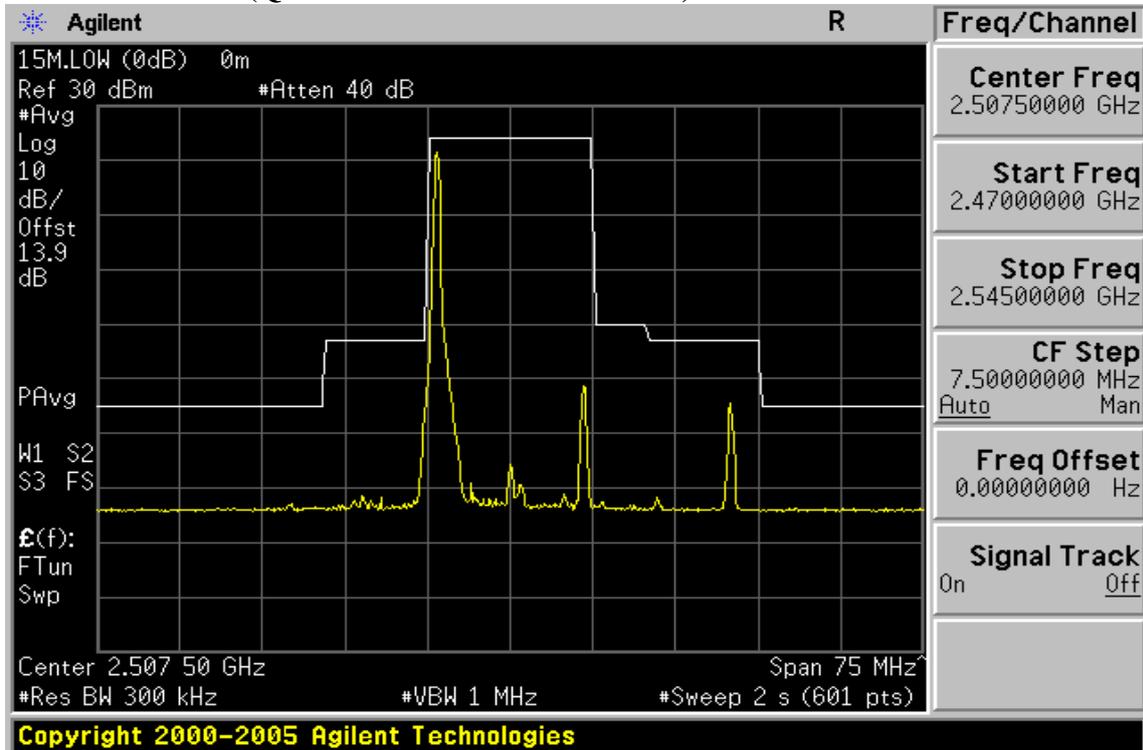
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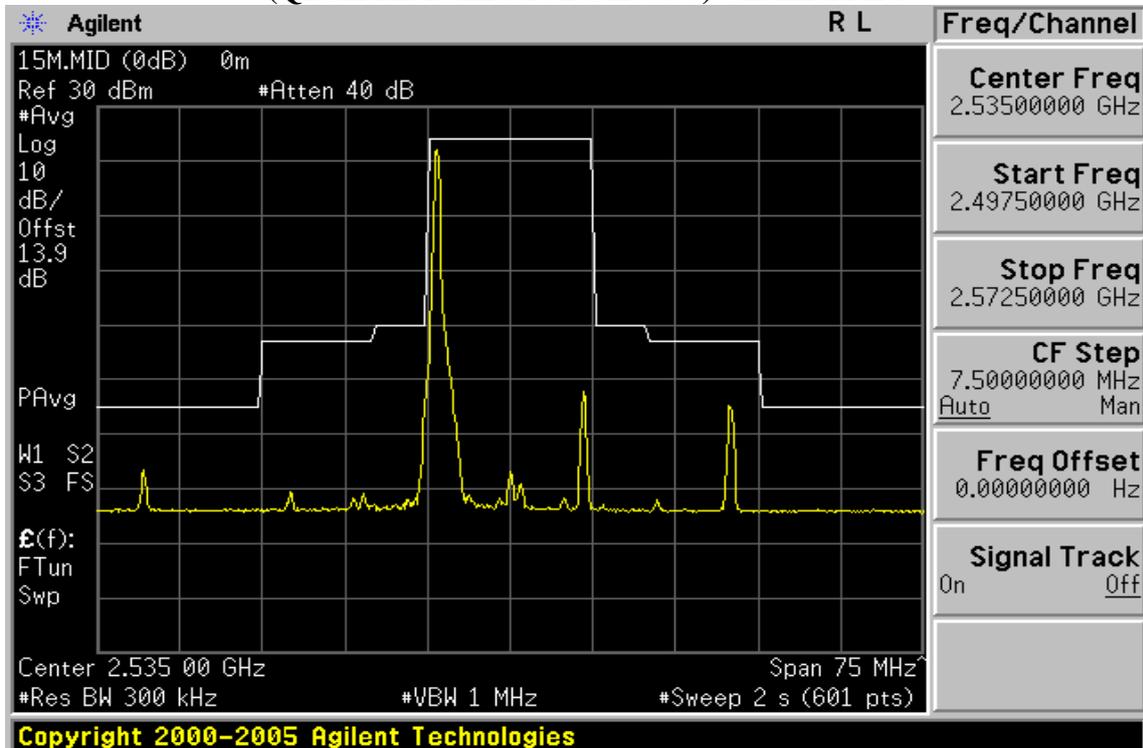
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**Emission Mask at antenna terminals –15MHz BW LTE-Band 7  
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Emission Mask at antenna terminals –15MHz BW LTE-Band 7  
(QPSK RB Number: 1 Offset: 0) Channel Mid**



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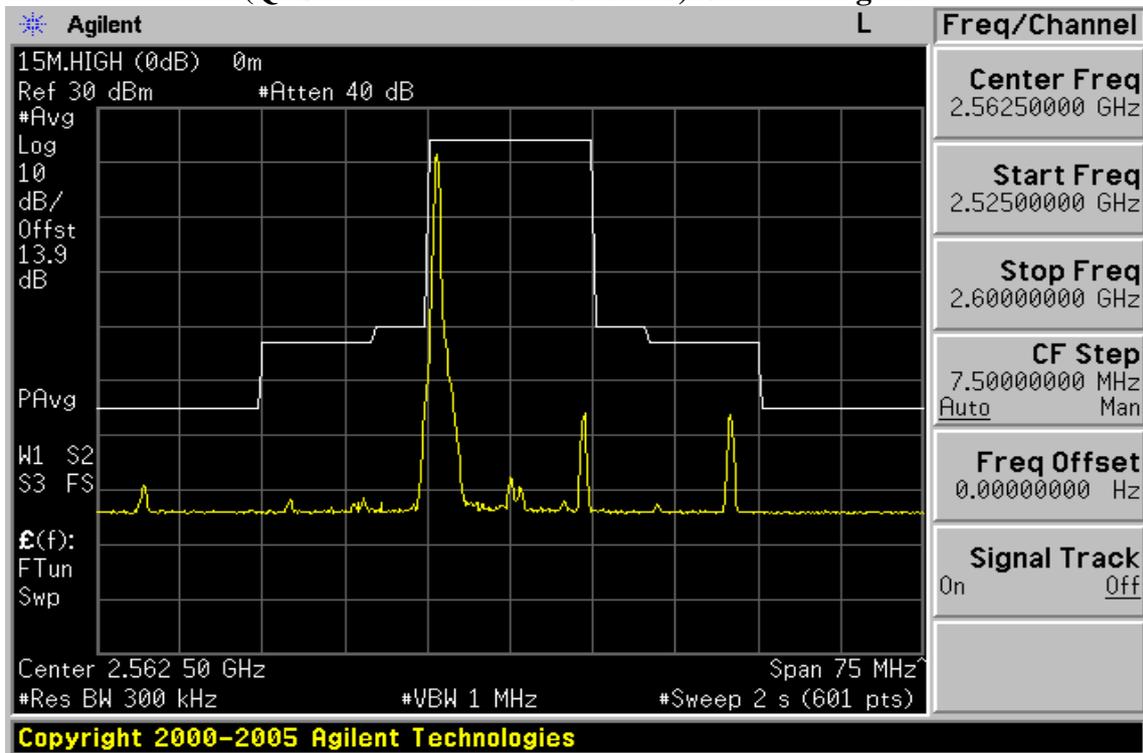
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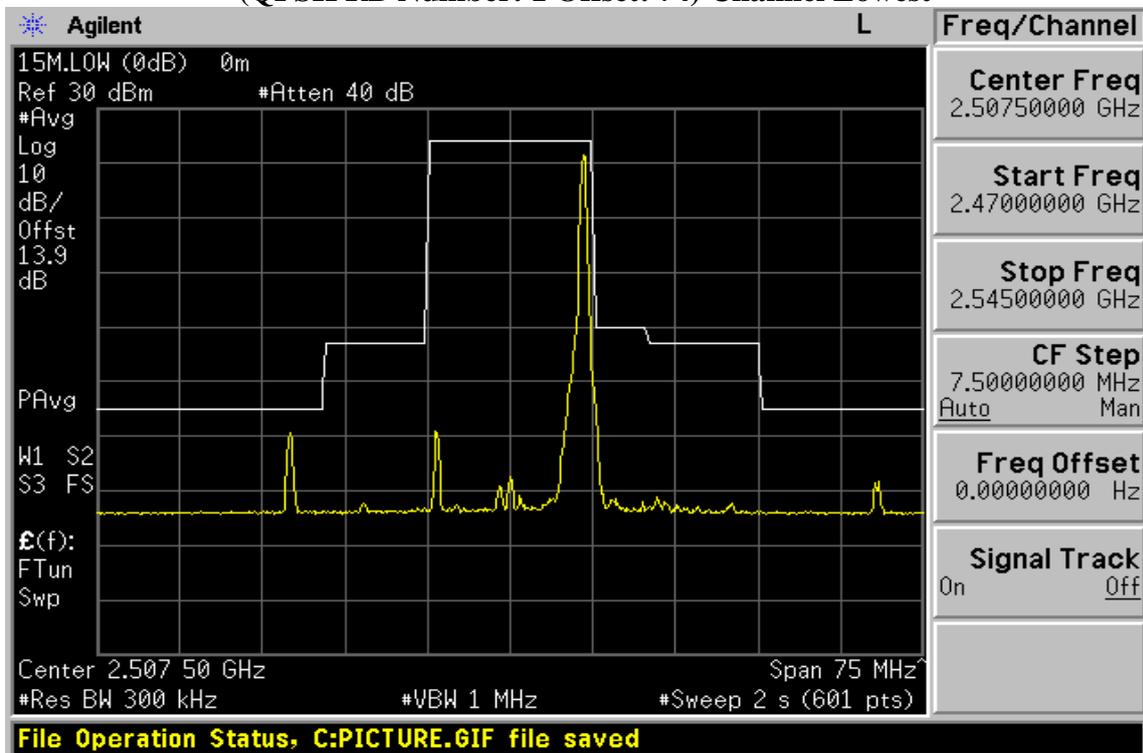
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**Emission Mask at antenna terminals –15MHz BW LTE-Band 7  
(QPSK RB Number: 1 Offset: 0) Channel Highest**



**Emission Mask at antenna terminals –15MHz BW LTE-Band 7  
(QPSK RB Number: 1 Offset: 74) Channel Lowest**



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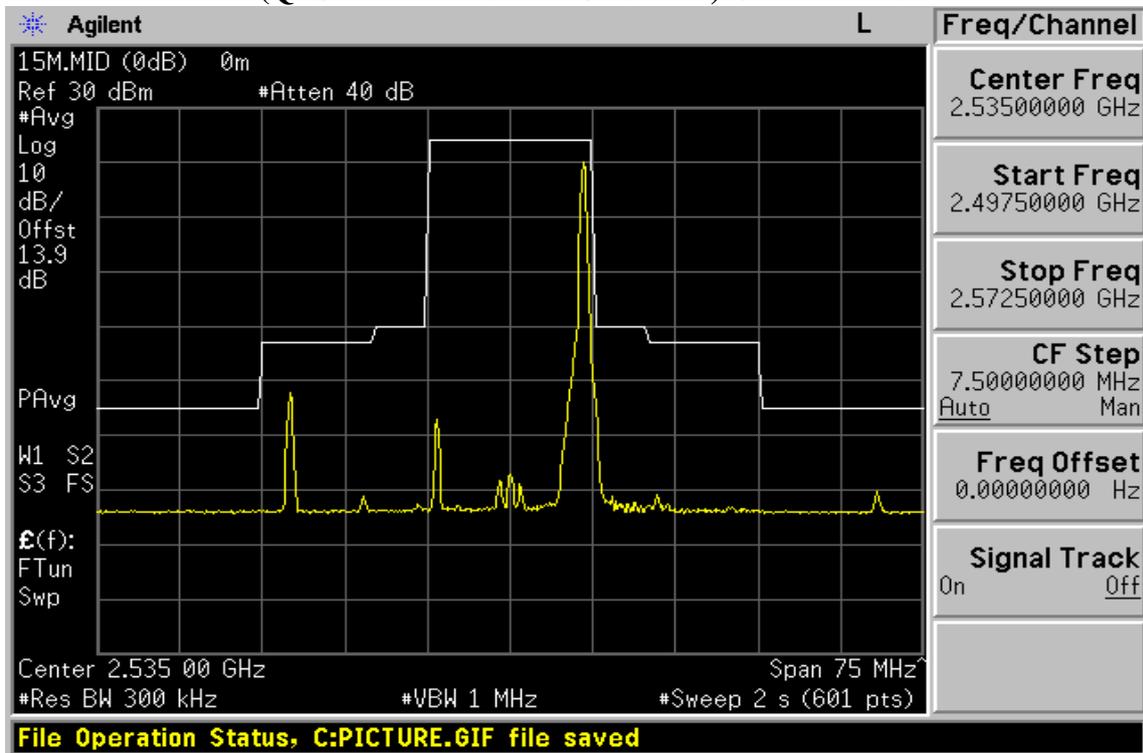
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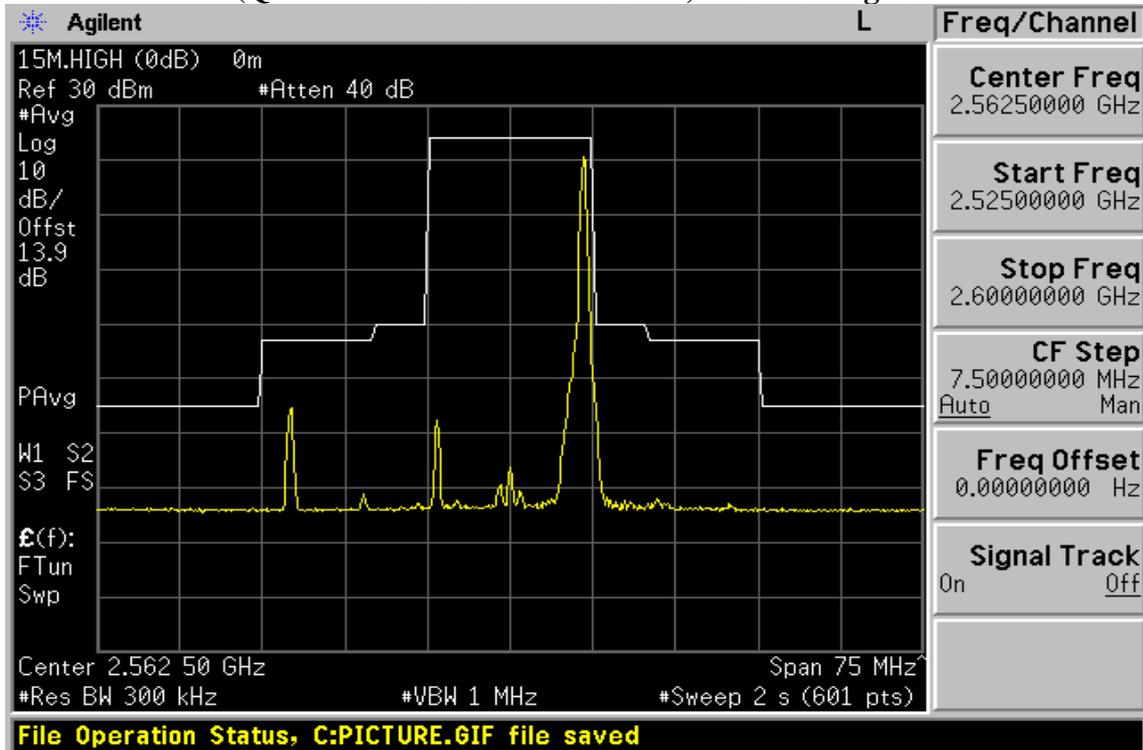
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**Emission Mask at antenna terminals –15MHz BW LTE-Band 7  
(QPSK RB Number: 1 Offset: 74) Channel Mid**



**Emission Mask at antenna terminals –15MHz BW LTE-Band 7  
(QPSK RB Number: 1 Offset: 74) Channel Highest**



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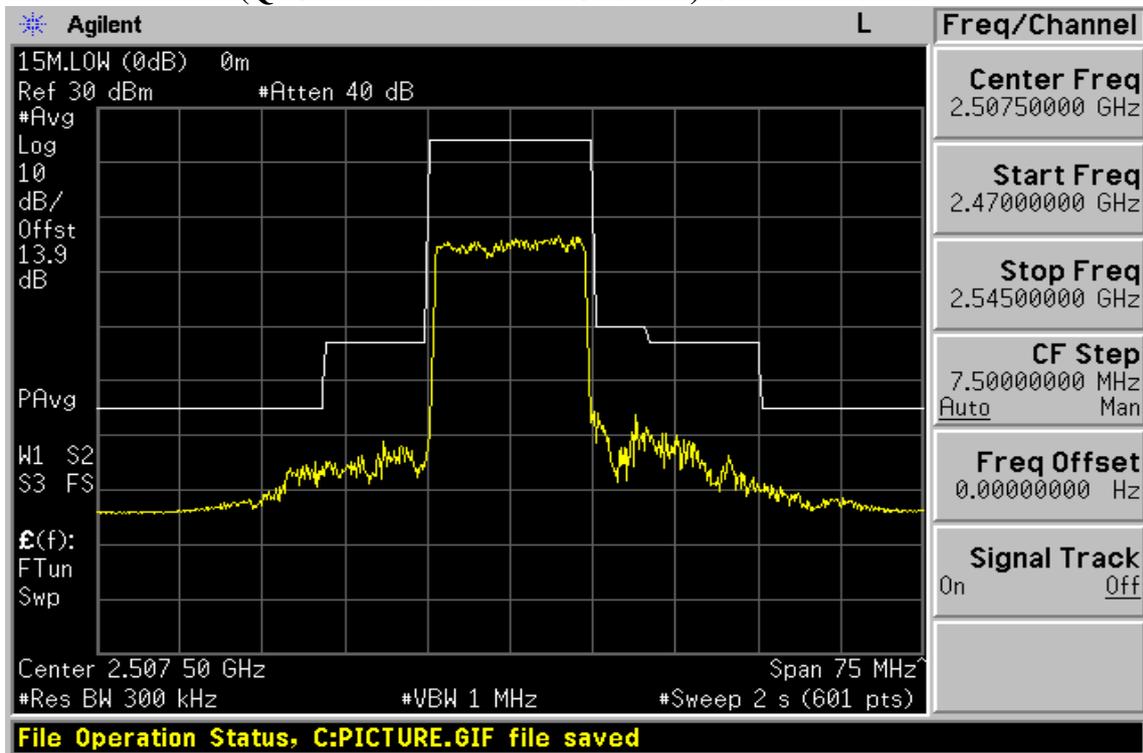
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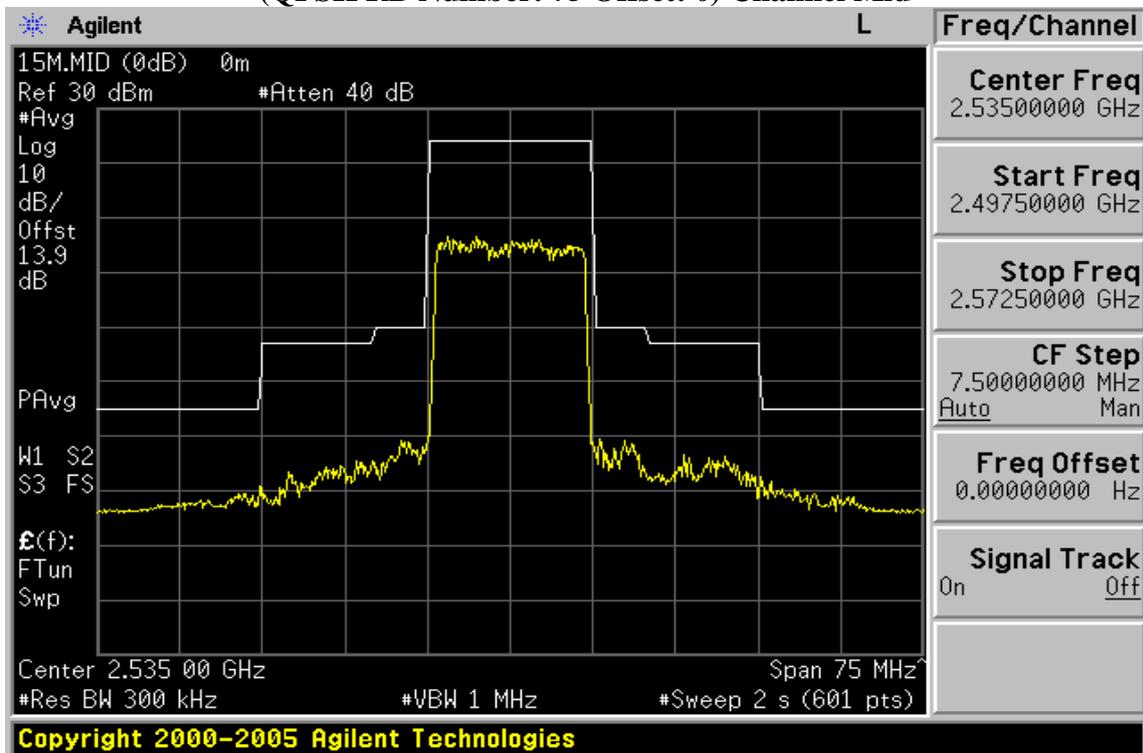
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**Emission Mask at antenna terminals –15MHz BW LTE-Band 7  
(QPSK RB Number: 75 Offset: 0) Channel Lowest**



**Emission Mask at antenna terminals –15MHz BW LTE-Band 7  
(QPSK RB Number: 75 Offset: 0) Channel Mid**



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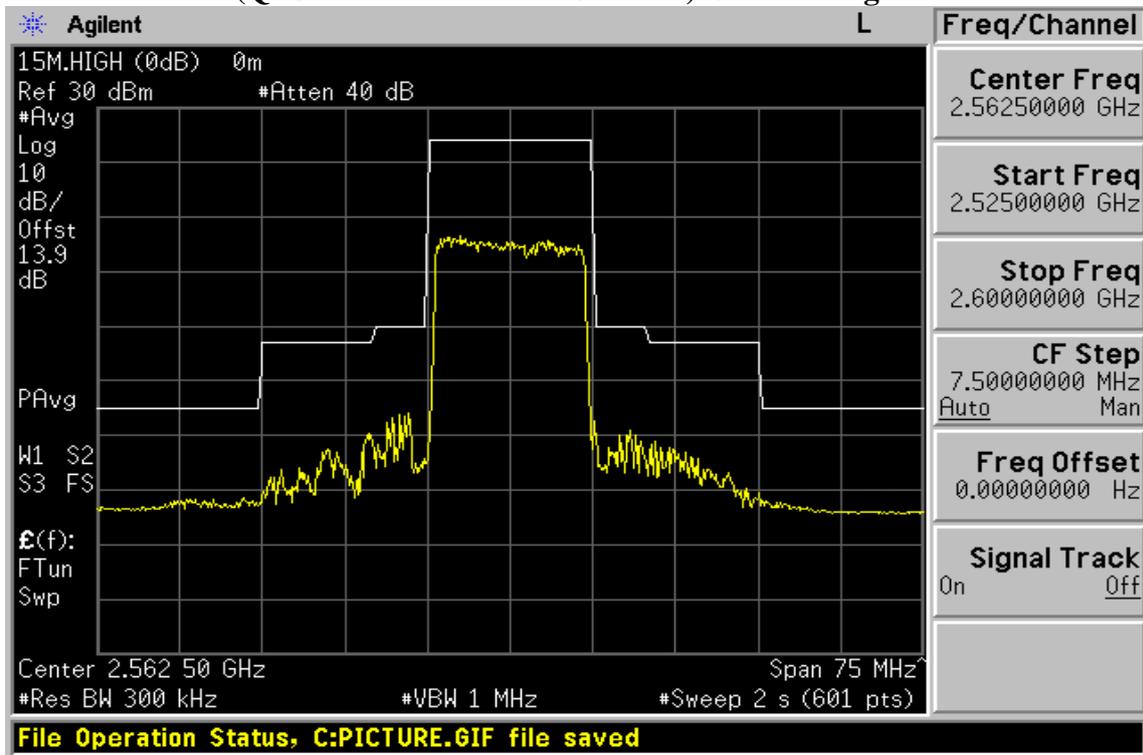
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**Emission Mask at antenna terminals –15MHz BW LTE-Band 7  
 (QPSK RB Number: 75 Offset: 0) Channel Highest**



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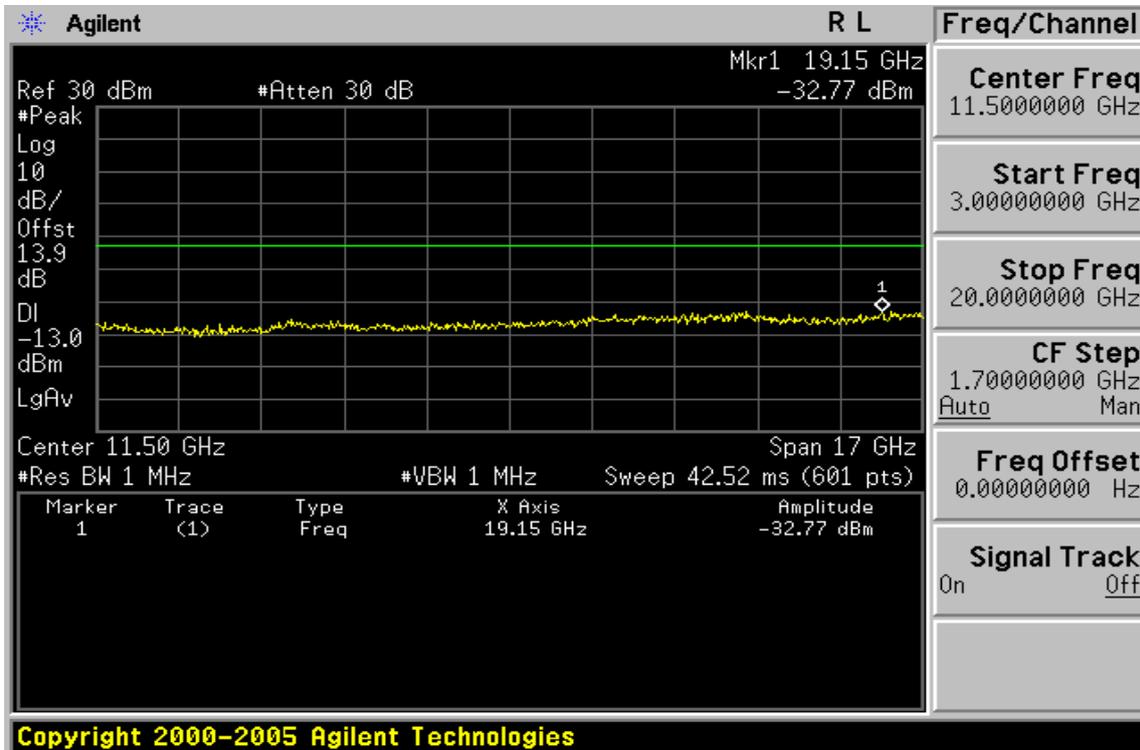
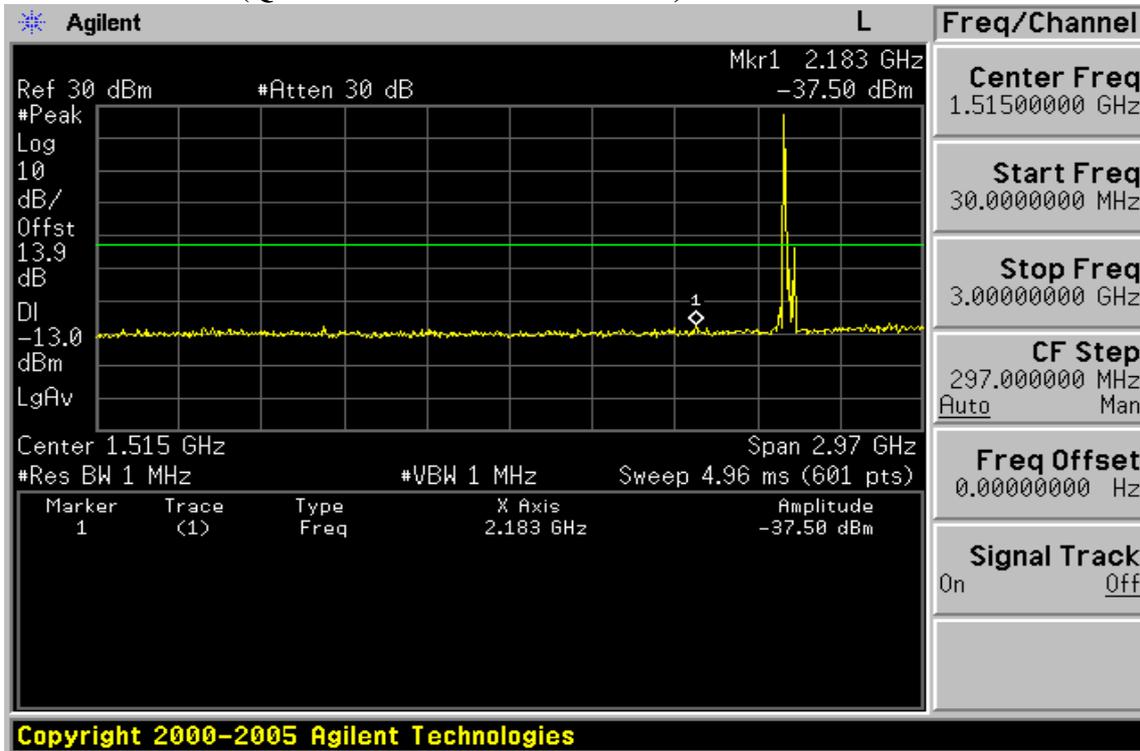
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**Out of Band emission at antenna terminals–20MHz BW LTE-Band 7  
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



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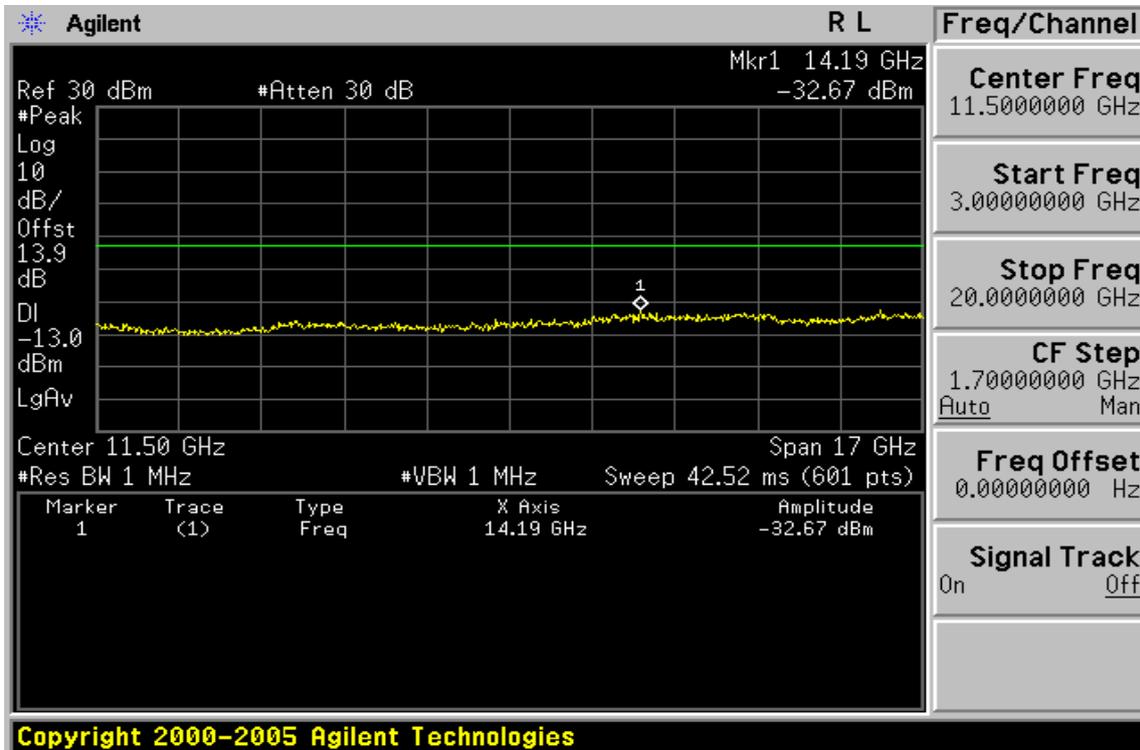
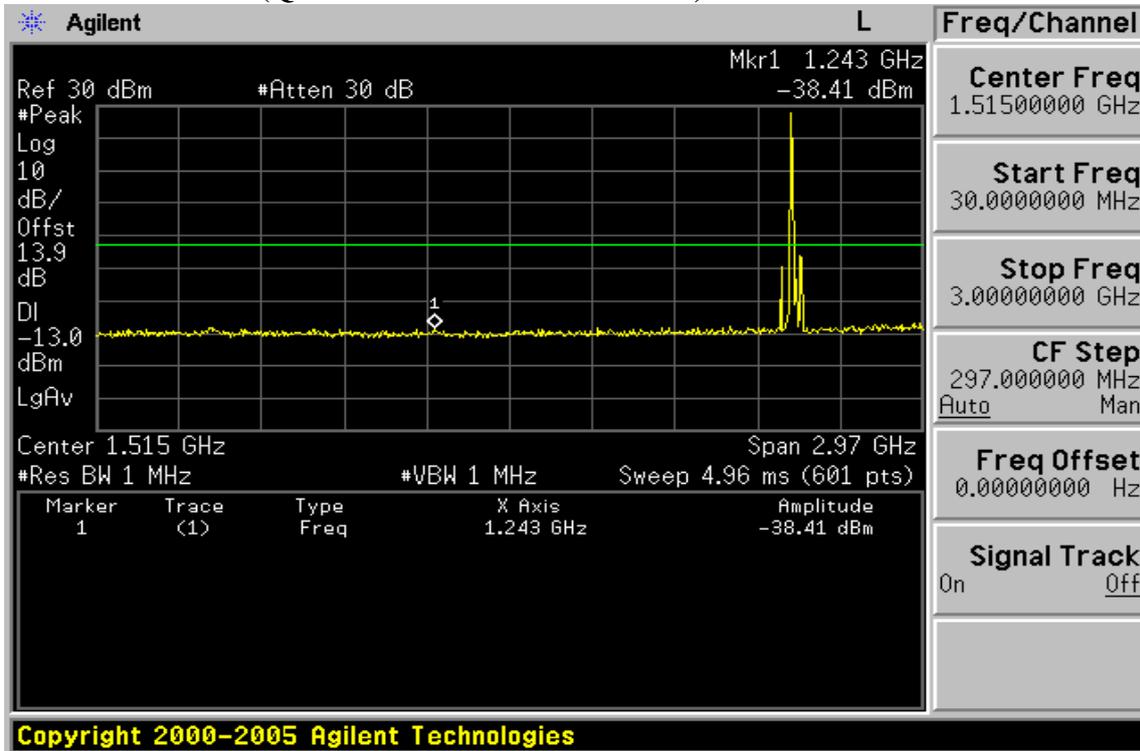
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**Out of Band emission at antenna terminals–20MHz BW LTE-Band 7  
(QPSK RB Number: 1 Offset: 0) Channel Mid**



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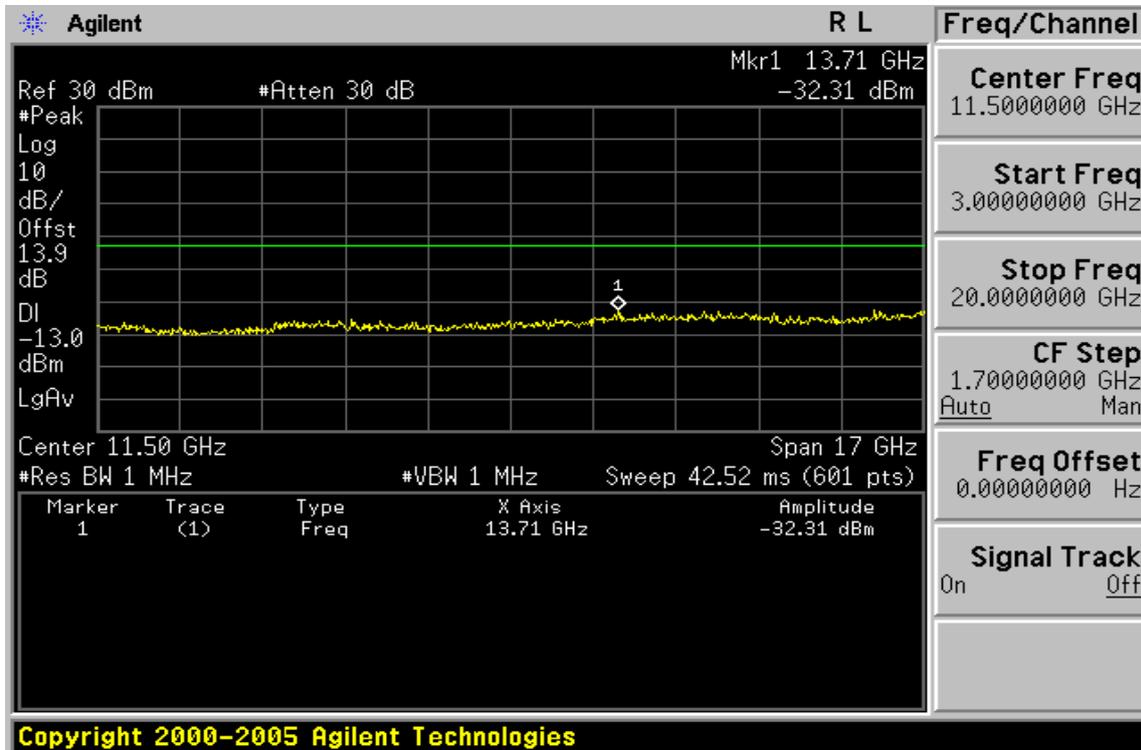
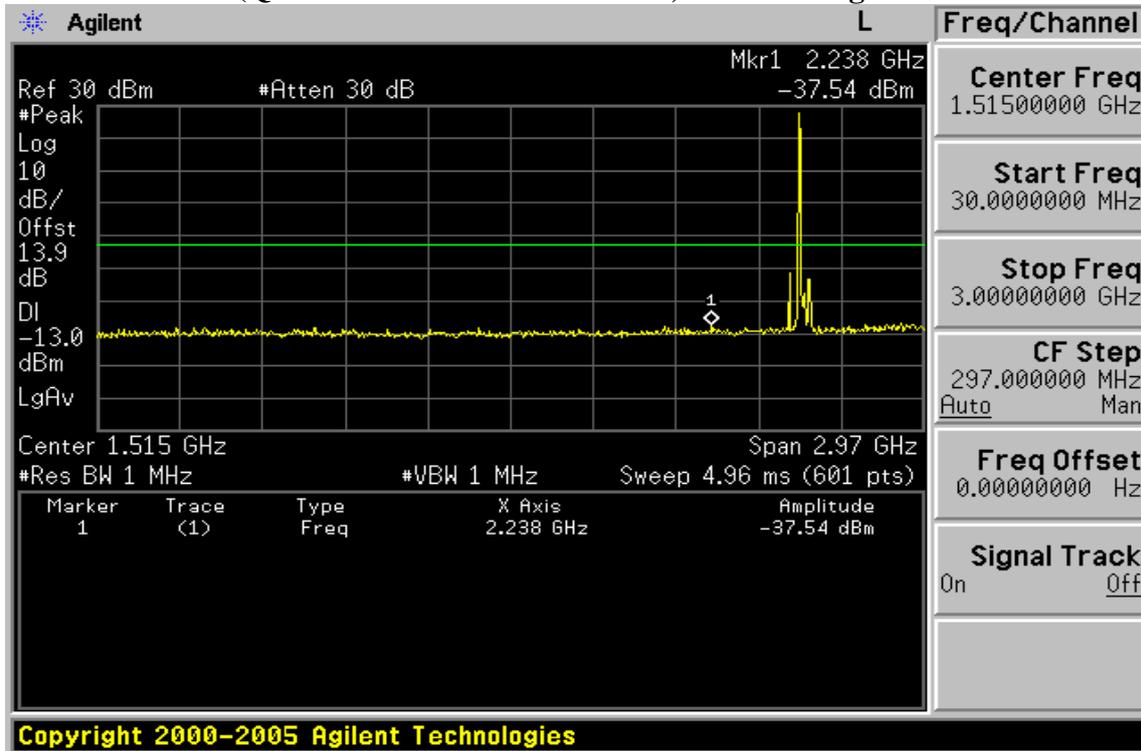
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**Out of Band emission at antenna terminals–20MHz BW LTE-Band 7  
(QPSK RB Number: 1 Offset: 0) Channel Highest**



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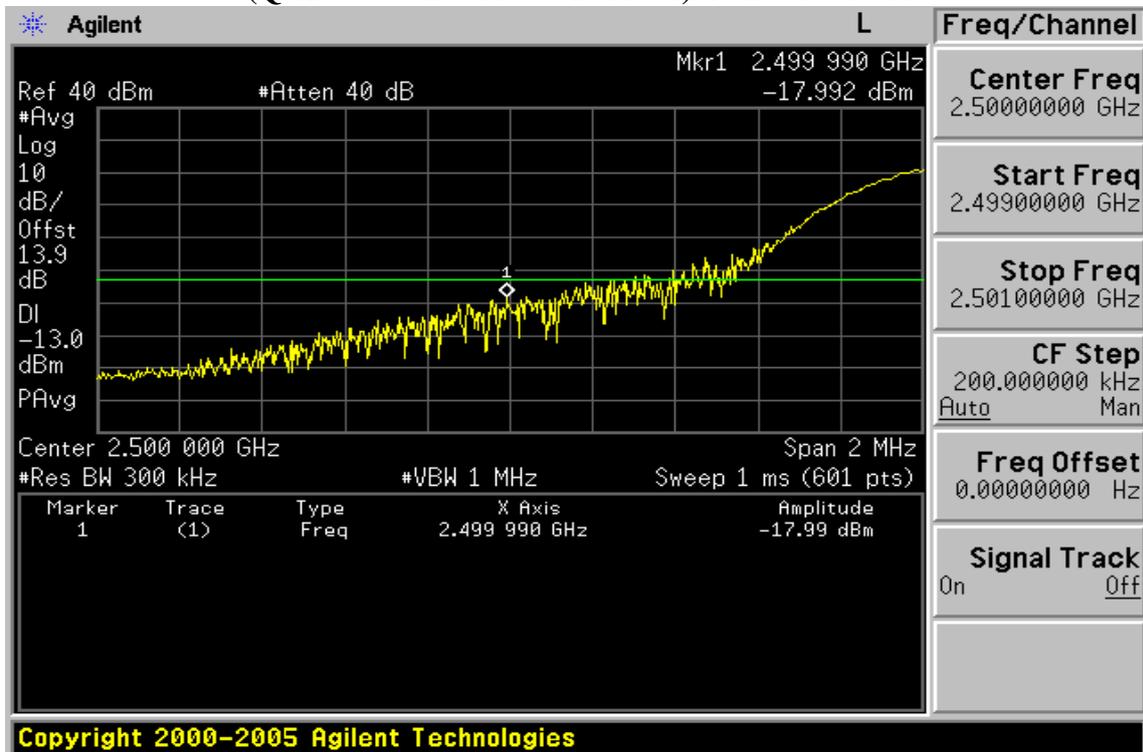
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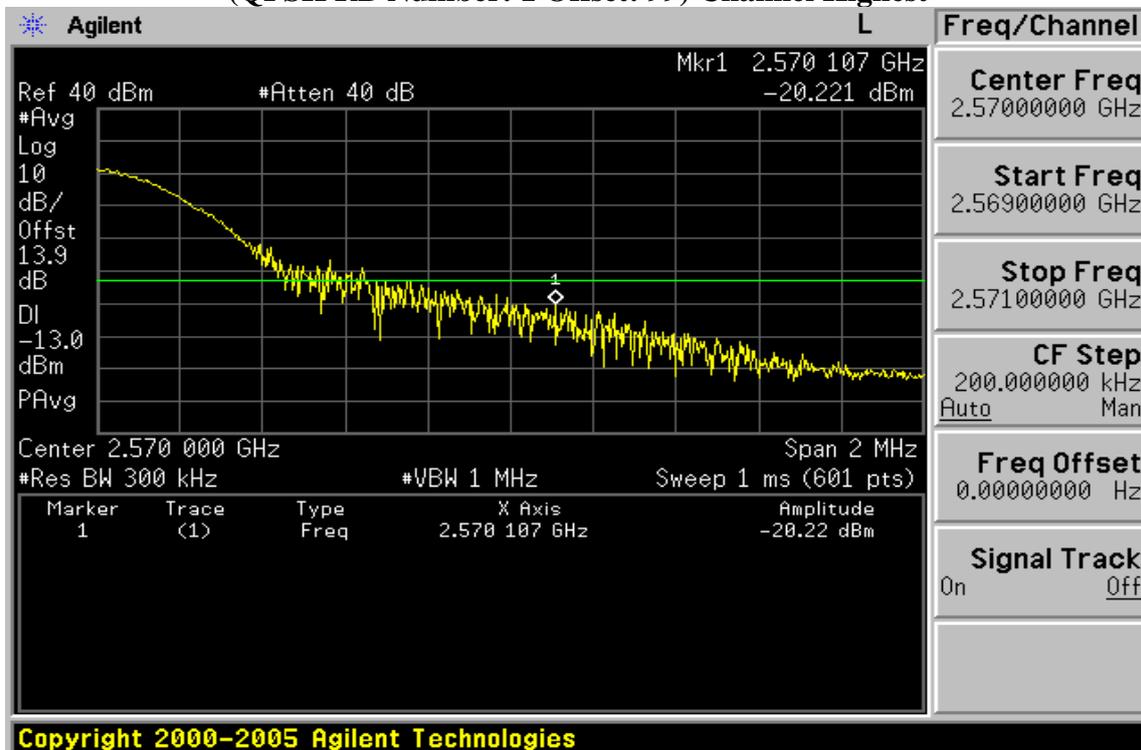
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**Band edge emission at antenna terminals –20MHz BW LTE-Band 7  
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Band edge emission at antenna terminals –20MHz BW LTE-Band 7  
(QPSK RB Number: 1 Offset: 99) Channel Highest**



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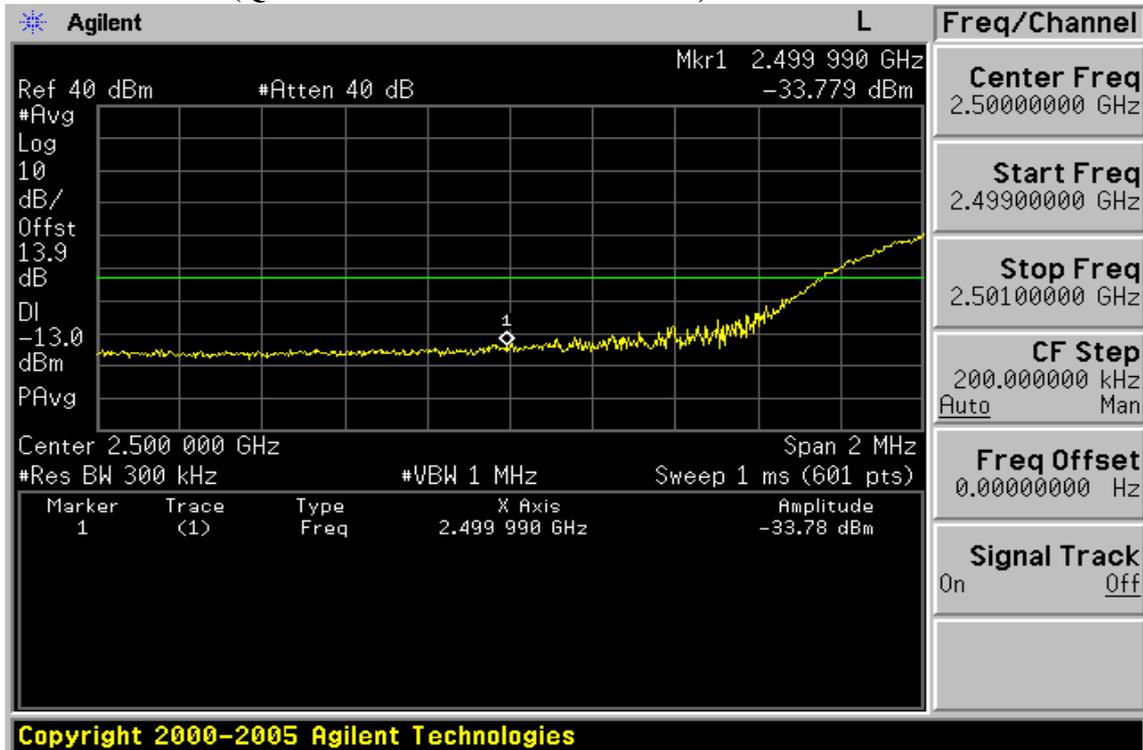
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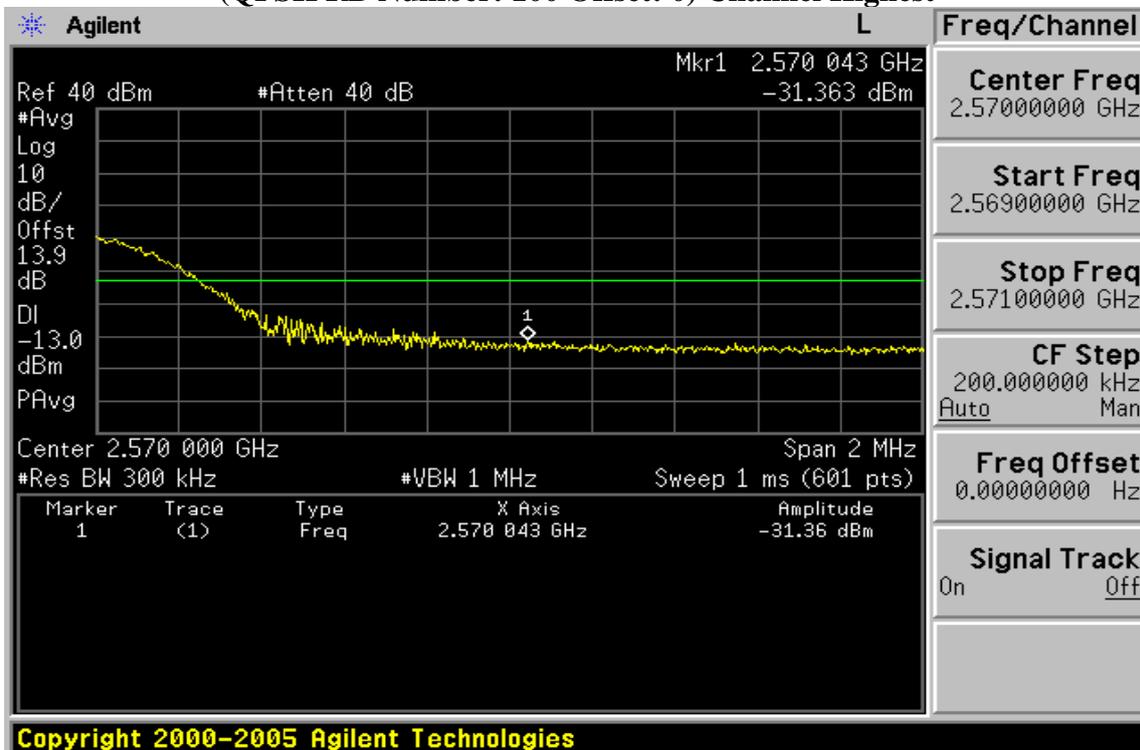
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**Band edge emission at antenna terminals -20MHz BW LTE-Band 7  
 (QPSK RB Number: 100 Offset: 0) Channel Lowest**



**Band edge emission at antenna terminals -20MHz BW LTE-Band 7  
 (QPSK RB Number: 100 Offset: 0) Channel Highest**



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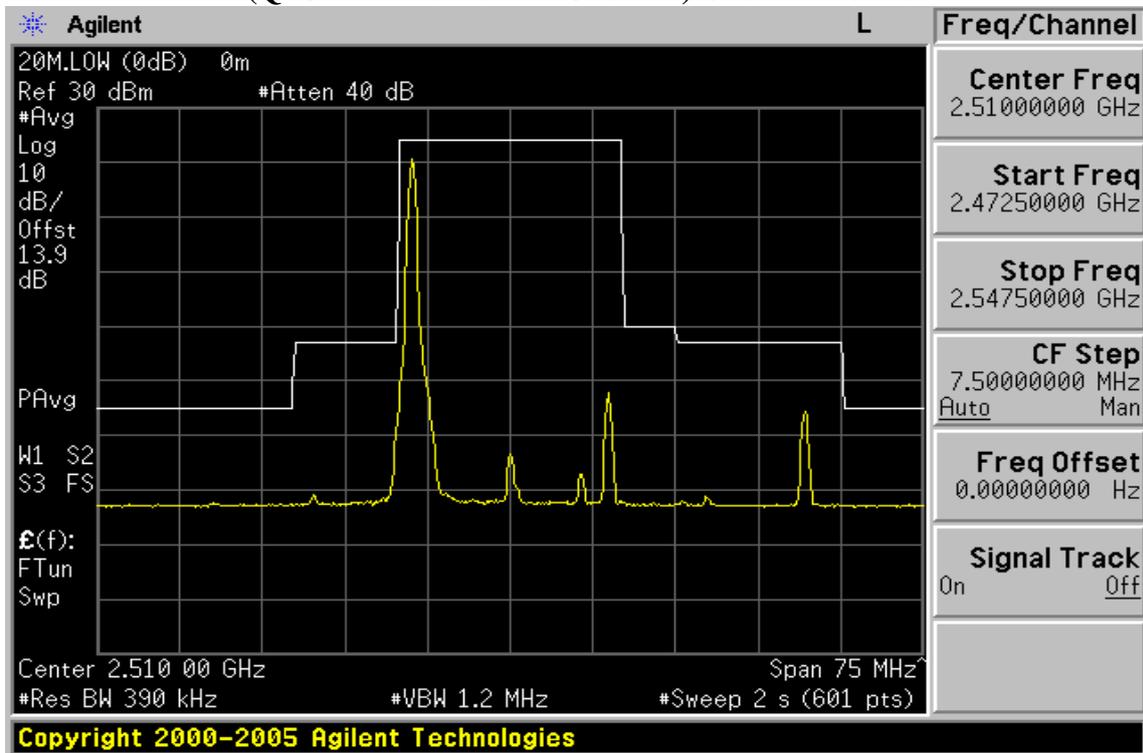
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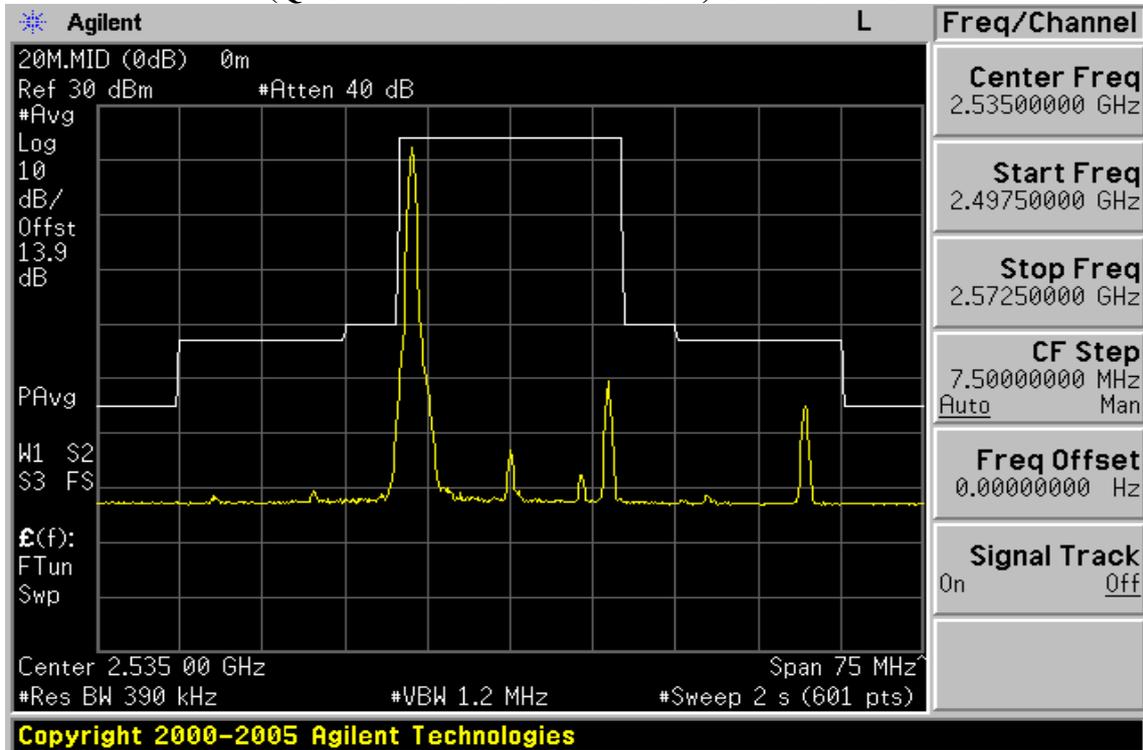
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**Emission Mask at antenna terminals –20MHz BW LTE-Band 7  
 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Emission Mask at antenna terminals –20MHz BW LTE-Band 7  
 (QPSK RB Number: 1 Offset: 0) Channel Mid**



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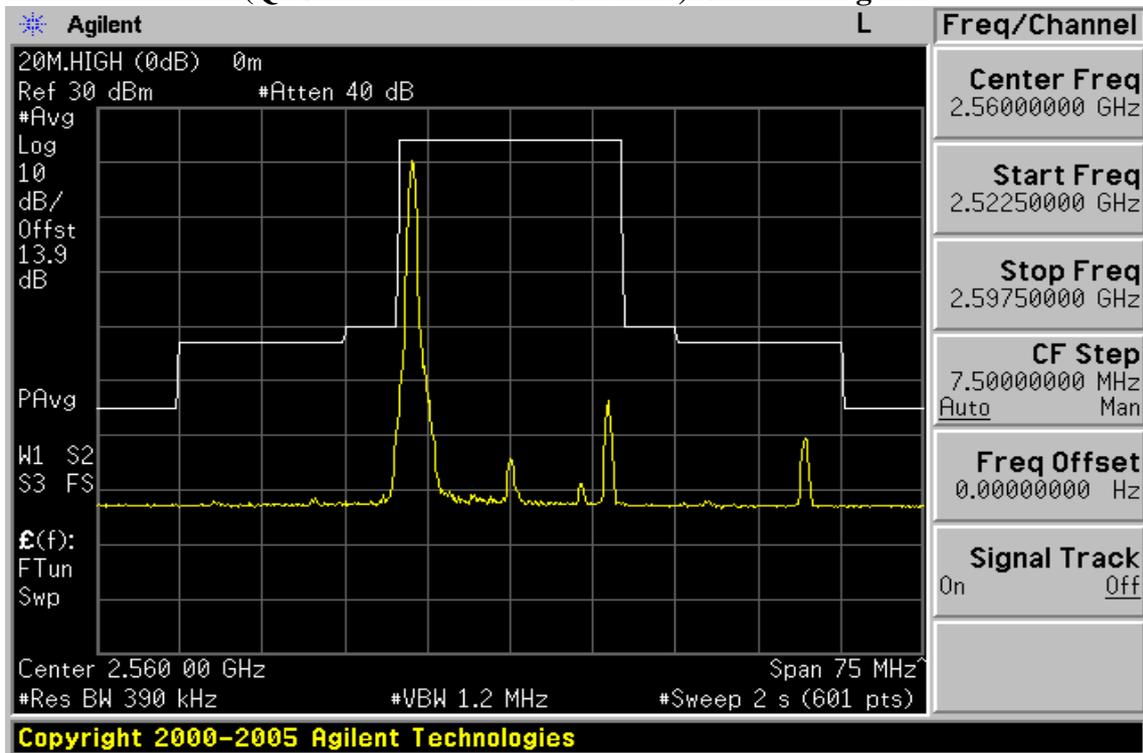
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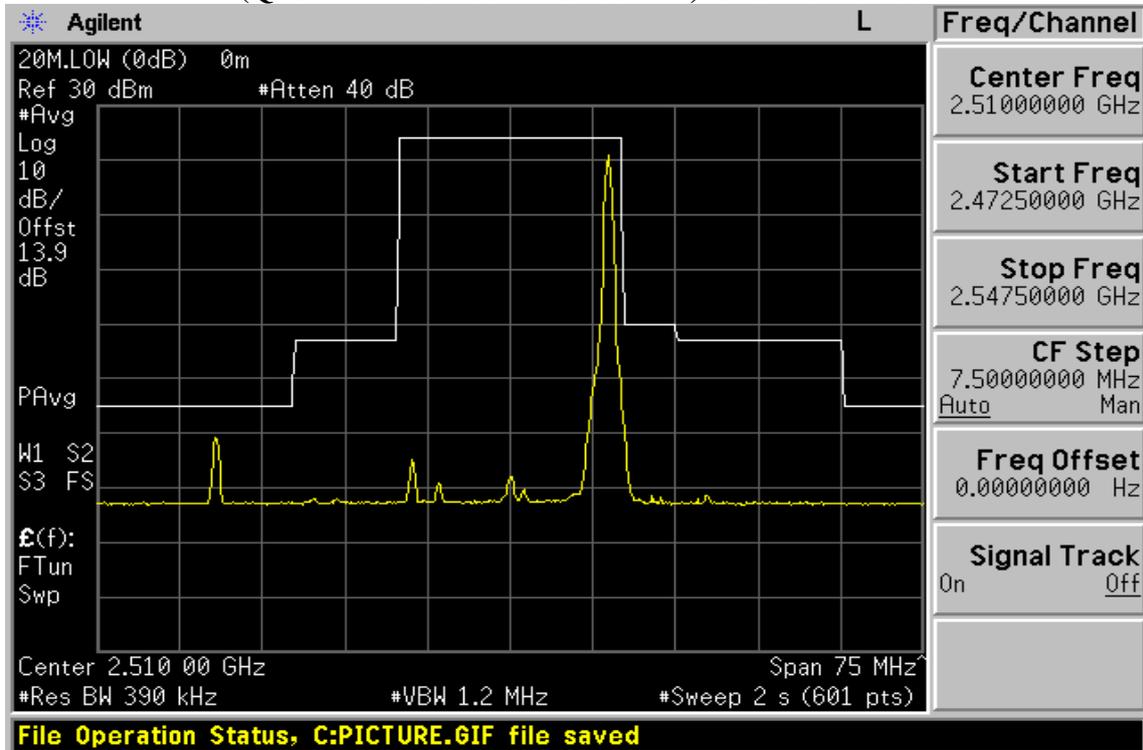
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**Emission Mask at antenna terminals –20MHz BW LTE-Band 7  
 (QPSK RB Number: 1 Offset: 0) Channel Highest**



**Emission Mask at antenna terminals –20MHz BW LTE-Band 7  
 (QPSK RB Number: 1 Offset: 99) Channel Lowest**



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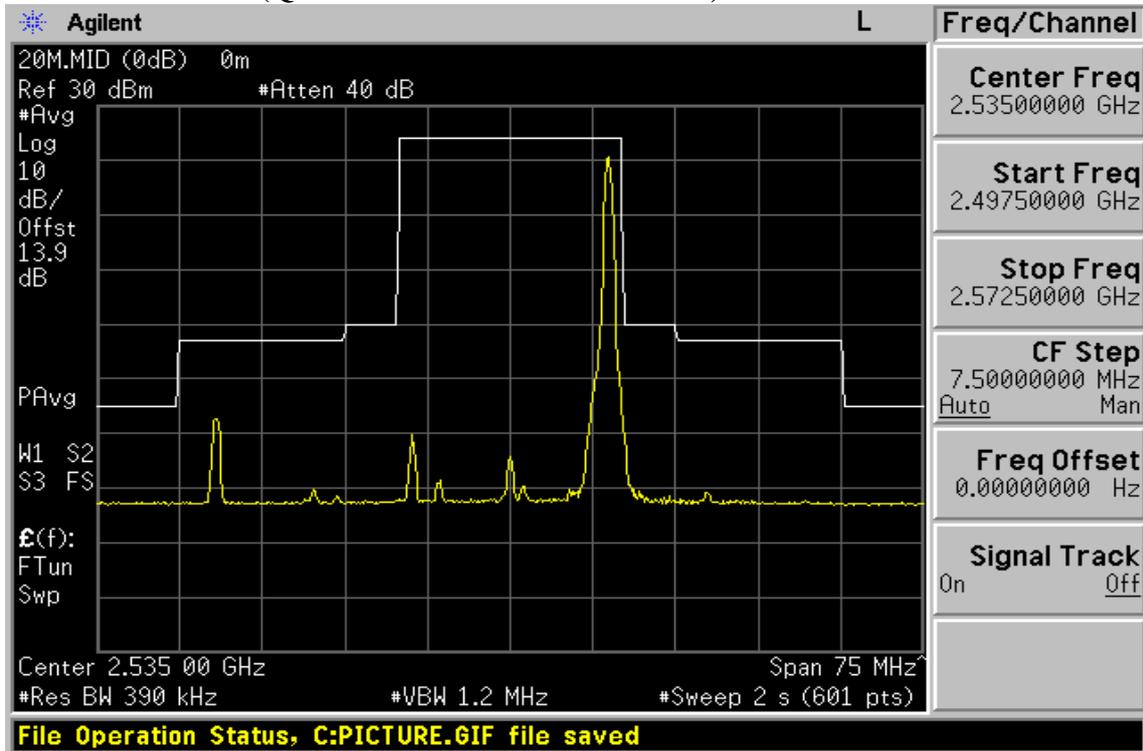
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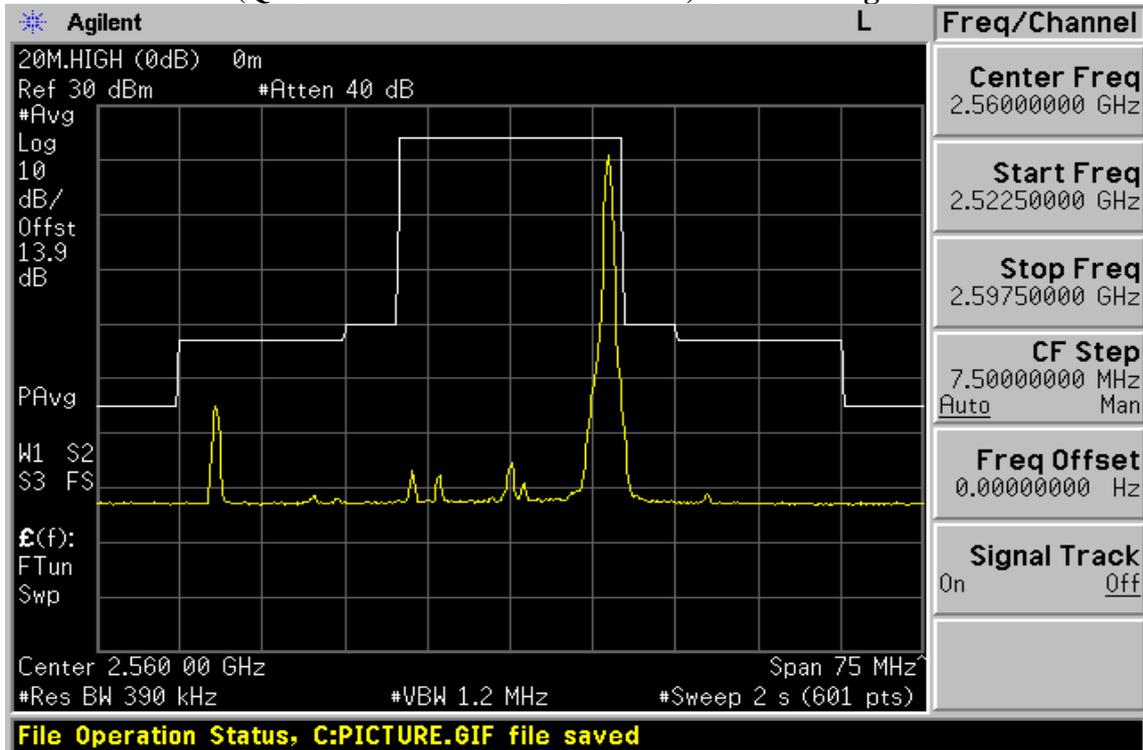
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**Emission Mask at antenna terminals –20MHz BW LTE-Band 7  
(QPSK RB Number: 1 Offset: 99) Channel Mid**



**Emission Mask at antenna terminals –20MHz BW LTE-Band 7  
(QPSK RB Number: 1 Offset: 99) Channel Highest**



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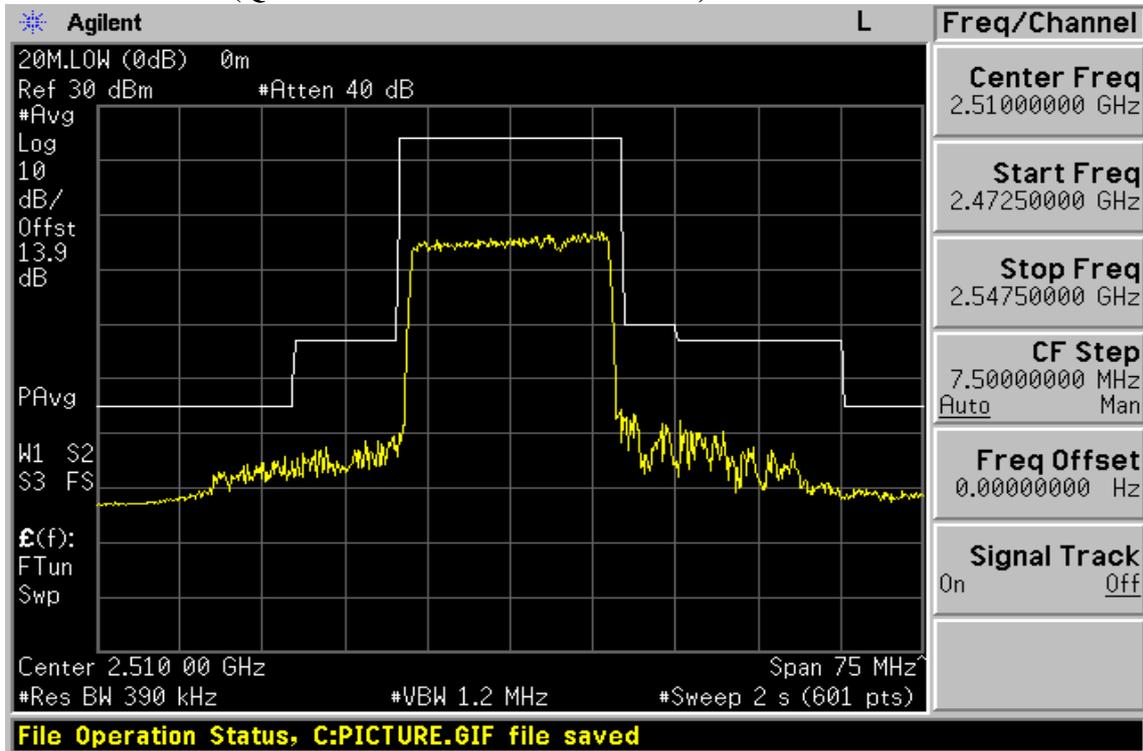
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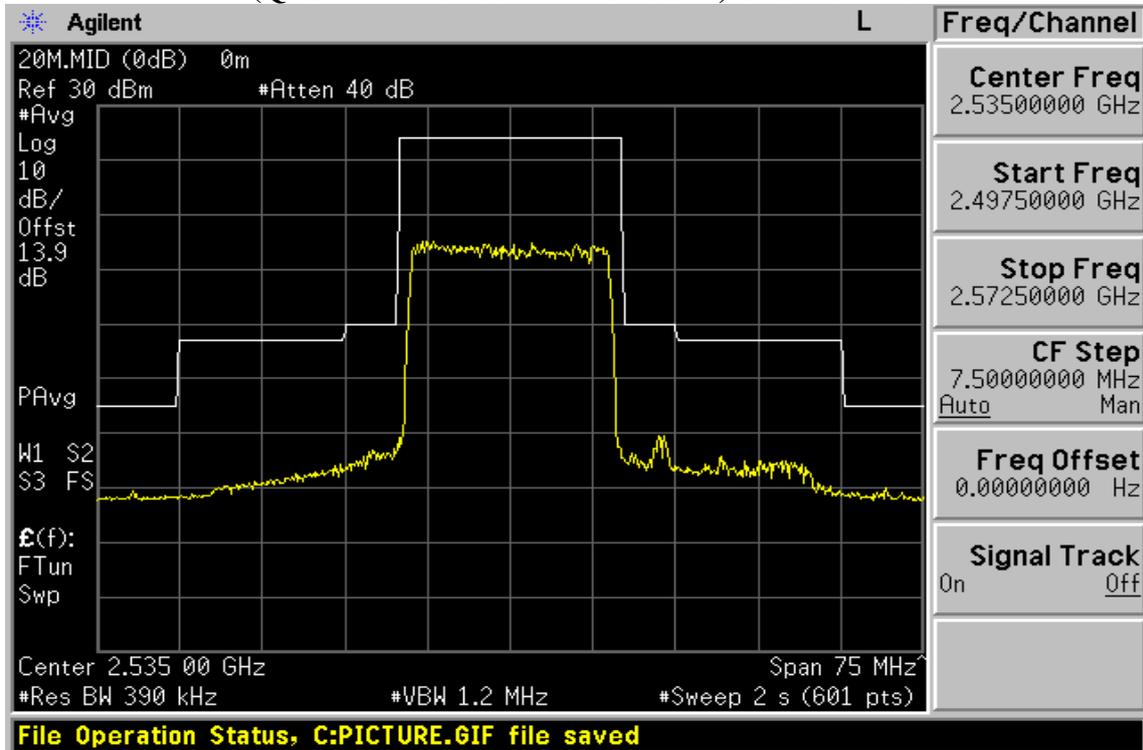
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(QPSK RB Number: 100 Offset: 0) Channel Lowest**



**Emission Mask at antenna terminals –20MHz BW LTE-Band 7  
(QPSK RB Number: 100 Offset: 0) Channel Mid**



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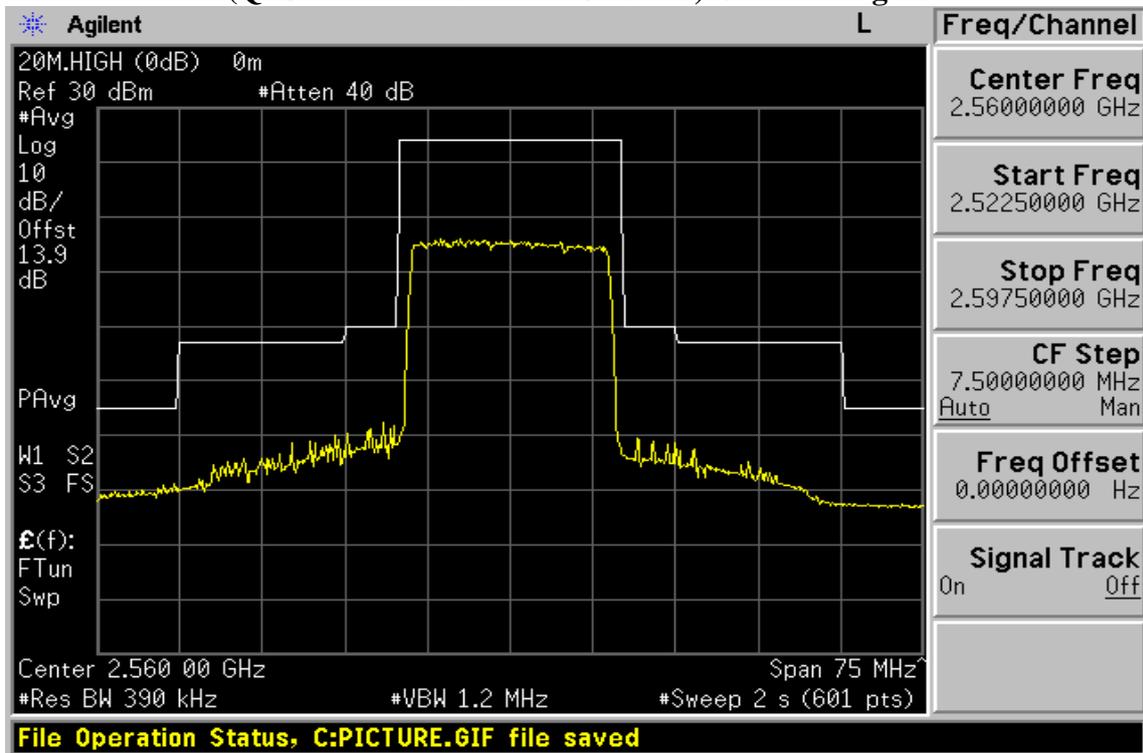
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**Emission Mask at antenna terminals –20MHz BW LTE-Band 7  
(QPSK RB Number: 100 Offset: 0) Channel Highest**



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## 10. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

### 10.1. Standard Applicable

According to FCC §2.1053,

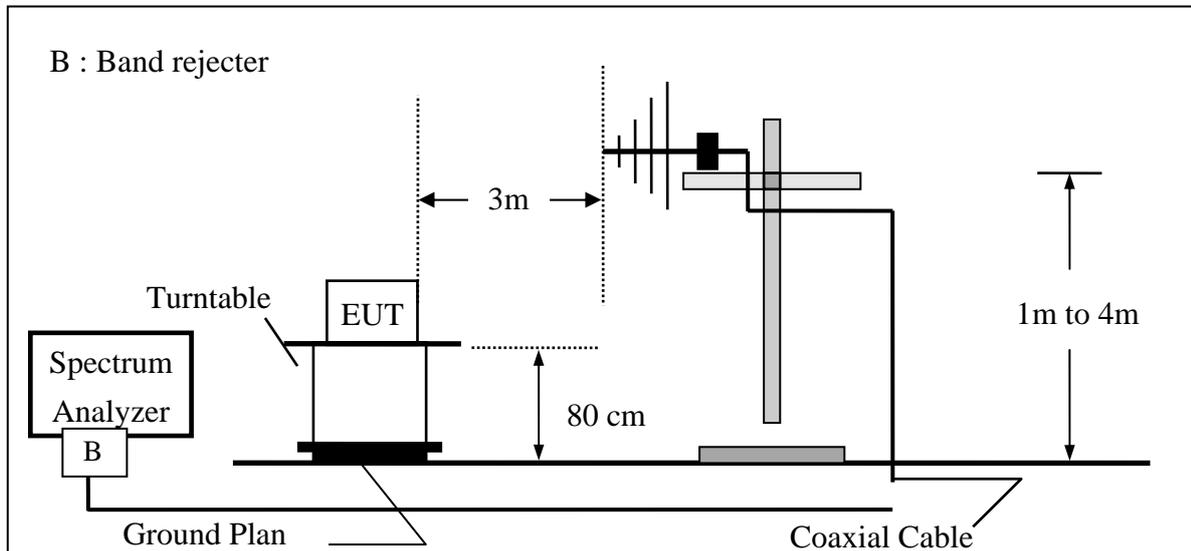
FCC §22.917(a) , §24.238(a) , §27.53(g)(h) , the magnitude of each spurious and harmonic emission that can be detected when the equipment is operated under the conditions specified in the instruction manual and/ or alignment procedure, shall not be less than  $43 + 10 \log$  (mean output power in watts)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

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

§27.53 (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

Radiated Emission Test Set-Up, Frequency Below 1000MHz



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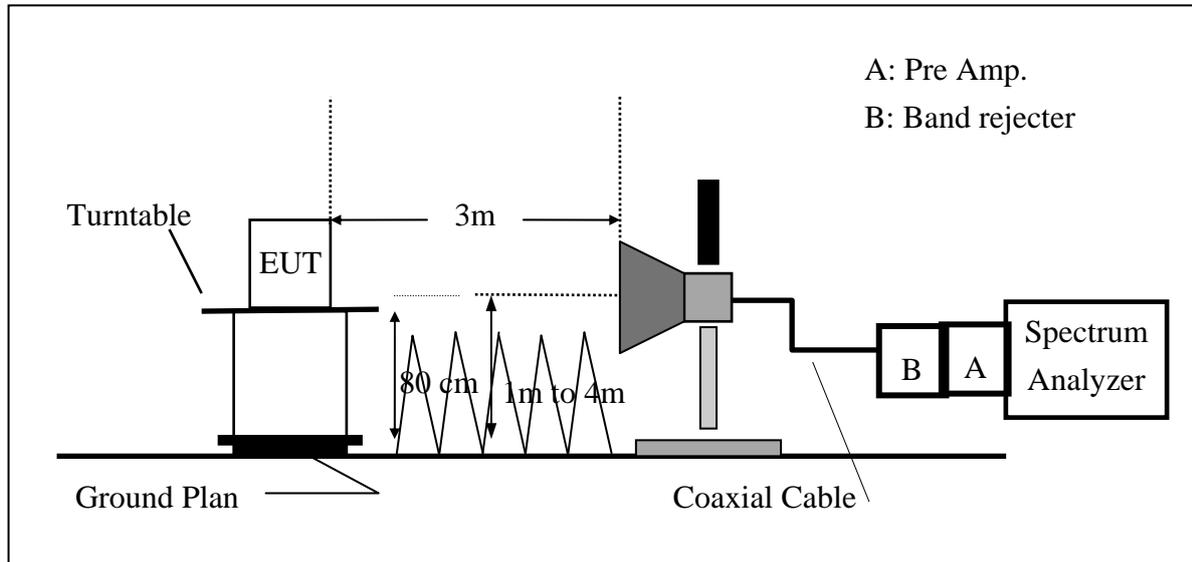
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Radiated Emission Test Set-UP Frequency Over 1 GHz



10.3. Measurement Procedure:

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

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

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

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

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

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

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**10.4. Measurement Equipment Used:**

<b>ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber</b>					
<b>EQUIPMENT TYPE</b>	<b>MFR</b>	<b>MODEL NUMBER</b>	<b>SERIAL NUMBER</b>	<b>LAST CAL.</b>	<b>CAL DUE.</b>
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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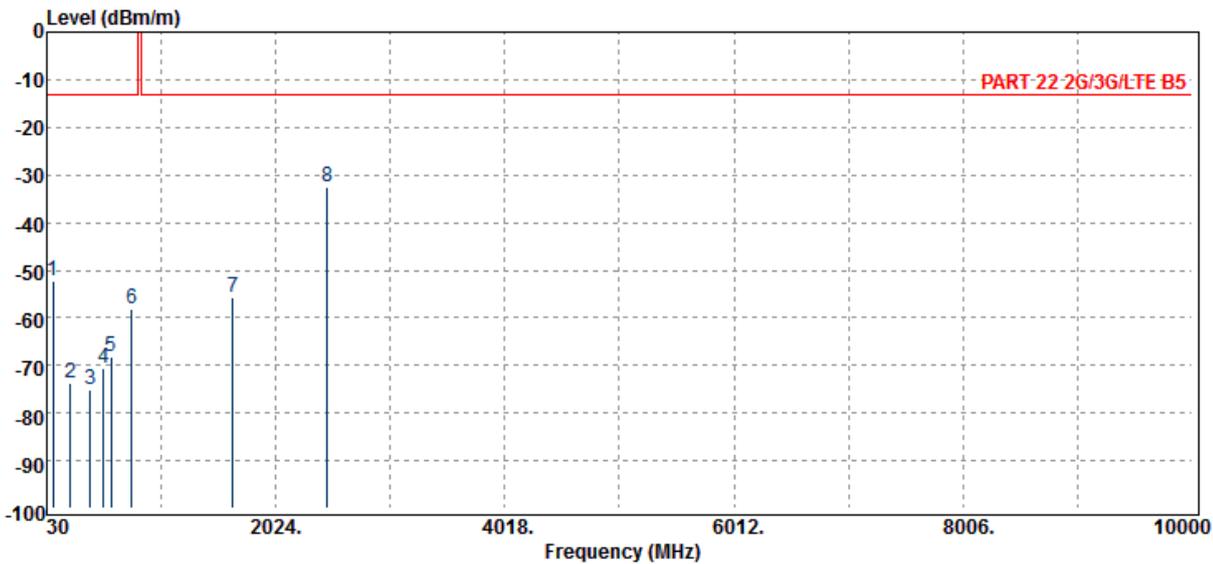
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**10.5. Measurement Result:**

**Radiated Spurious Emission Measurement Result: GSM 850 Mode**

ARFCN	:CH 128	Test Date	:2015-07-09
Operation Band	:GSM 850	Temp./Humi.	:22 deg_C / 53 RH
Fundamental Frequency	:824.2 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:VERTICAL



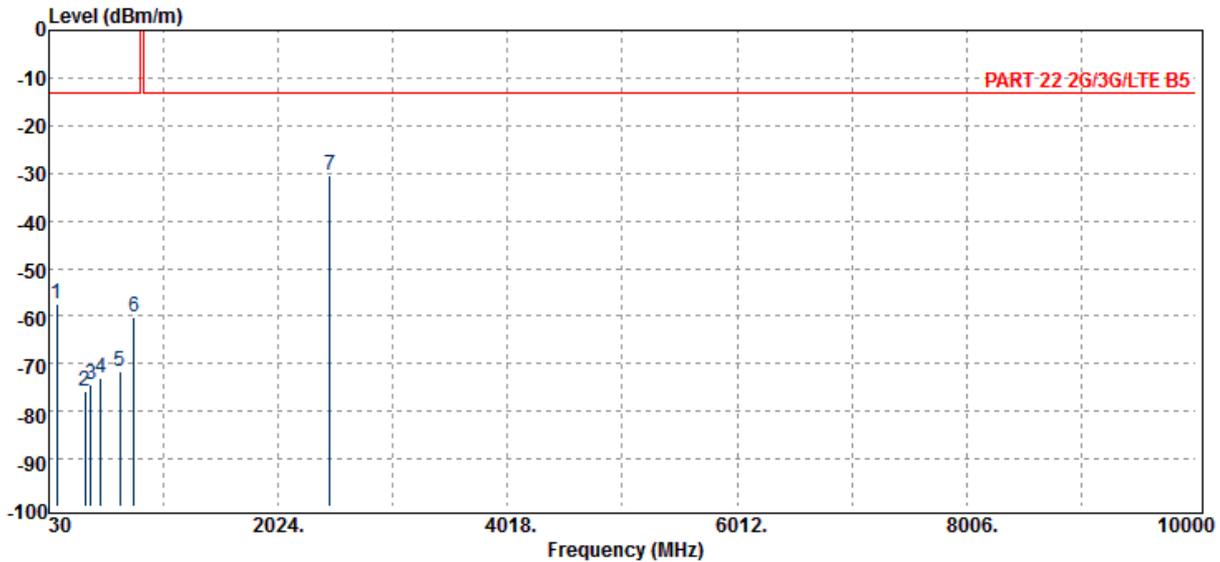
Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
82.38	S	-52.37	-49.13	-2.18	-1.06	-13.00	-39.37
235.64	S	-73.87	-75.58	3.30	-1.59	-13.00	-60.87
412.18	S	-75.20	-76.80	3.55	-1.95	-13.00	-62.20
524.70	S	-70.70	-71.93	3.67	-2.44	-13.00	-57.70
590.66	S	-68.10	-68.81	3.47	-2.77	-13.00	-55.10
772.05	S	-58.17	-58.77	3.35	-2.75	-13.00	-45.17
1648.40	H	-55.82	-54.66	3.05	-4.21	-13.00	-42.82
2472.60	H	-32.41	-30.68	3.59	-5.32	-13.00	-19.41

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ARFCN	:CH 128	Test Date	:2015-07-09
Operation Band	:GSM 850	Temp./Humi.	:22 deg_C / 53 RH
Fundamental Frequency	:824.2 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:HORIZONTAL



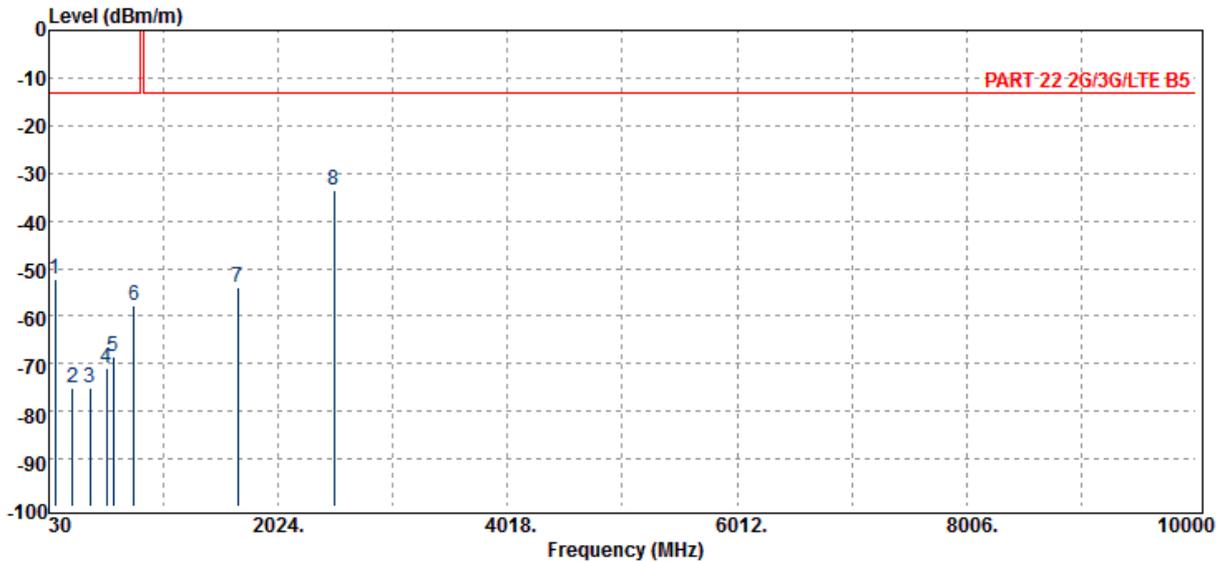
Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
96.93	S	-57.54	-55.23	-1.20	-1.11	-13.00	-44.54
340.40	S	-75.92	-77.72	3.74	-1.93	-13.00	-62.92
397.63	S	-74.56	-76.24	3.63	-1.95	-13.00	-61.56
479.11	S	-73.09	-74.50	3.59	-2.18	-13.00	-60.09
649.83	S	-71.46	-72.44	3.64	-2.66	-13.00	-58.46
772.05	S	-60.05	-60.66	3.35	-2.75	-13.00	-47.05
2472.60	H	-30.57	-28.84	3.59	-5.32	-13.00	-17.57

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ARFCN	:CH 190	Test Date	:2015-07-09
Operation Band	:GSM 850	Temp./Humi.	:22 deg_C / 53 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Curry
Operation Mode	:TX MID	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:E1 Plan		



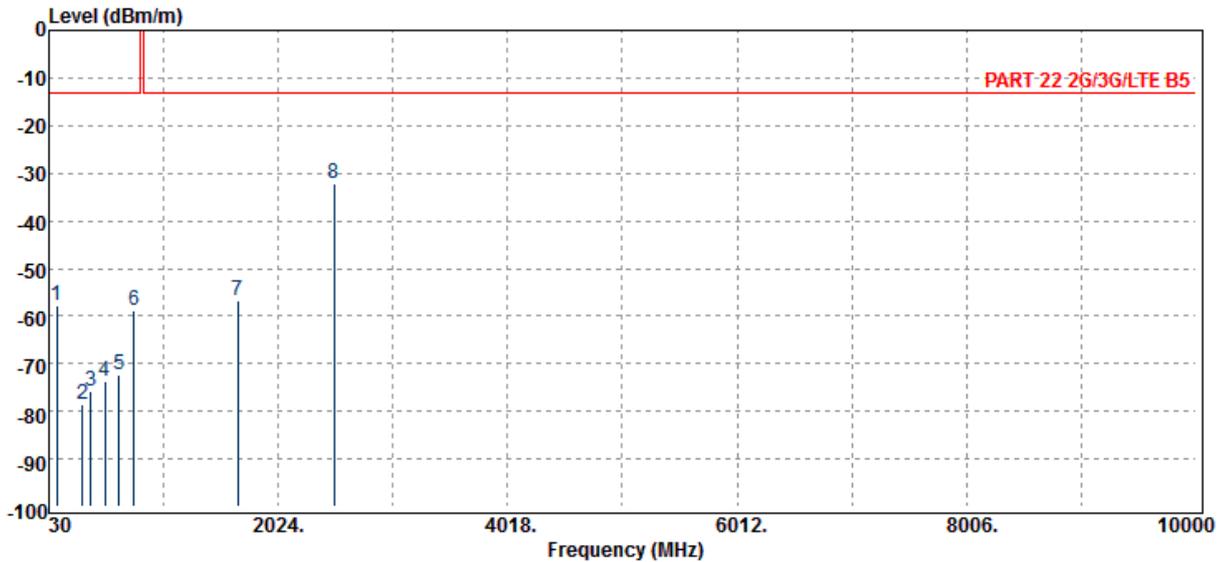
Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
82.38	S	-52.38	-49.14	-2.18	-1.06	-13.00	-39.38
238.55	S	-75.16	-76.85	3.29	-1.60	-13.00	-62.16
388.90	S	-74.97	-76.67	3.65	-1.95	-13.00	-61.97
529.55	S	-70.80	-71.99	3.66	-2.47	-13.00	-57.80
588.72	S	-68.41	-69.12	3.47	-2.76	-13.00	-55.41
773.02	S	-57.67	-58.28	3.36	-2.75	-13.00	-44.67
1673.20	H	-53.88	-52.63	3.01	-4.26	-13.00	-40.88
2509.80	H	-33.58	-31.90	3.67	-5.35	-13.00	-20.58

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ARFCN	:CH 190	Test Date	:2015-07-09
Operation Band	:GSM 850	Temp./Humi.	:22 deg_C / 53 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Curry
Operation Mode	:TX MID	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:E1 Plan		



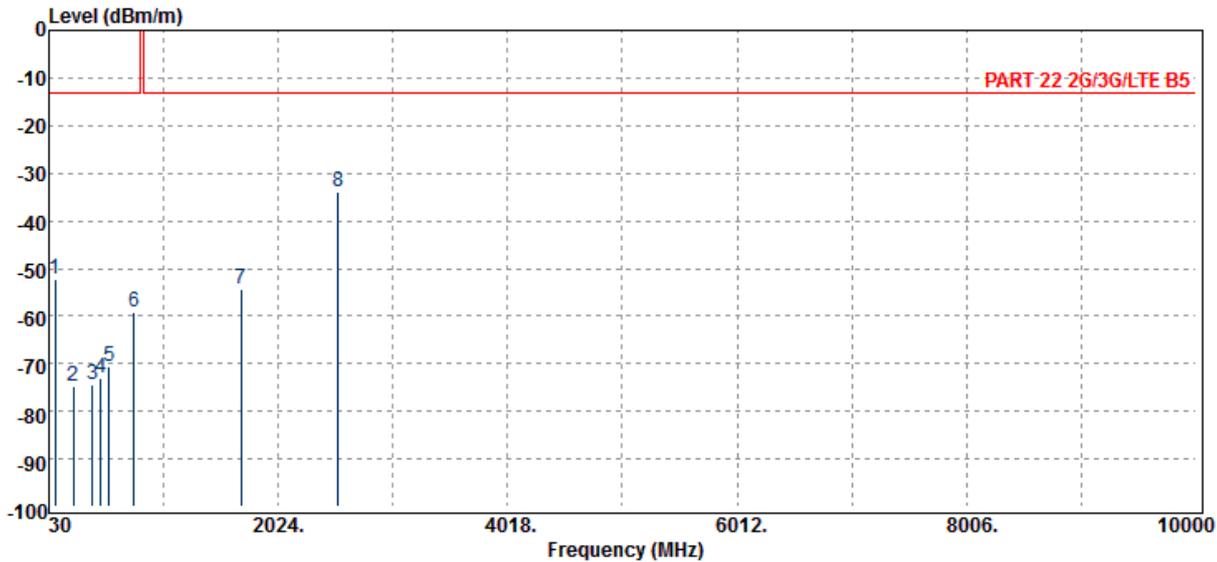
Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
96.93	S	-57.65	-55.34	-1.20	-1.11	-13.00	-44.65
322.94	S	-78.47	-80.29	3.69	-1.87	-13.00	-65.47
390.84	S	-75.61	-77.31	3.65	-1.95	-13.00	-62.61
514.03	S	-73.78	-75.10	3.71	-2.38	-13.00	-60.78
641.10	S	-72.22	-73.15	3.60	-2.67	-13.00	-59.22
772.05	S	-58.76	-59.36	3.35	-2.75	-13.00	-45.76
1673.20	H	-56.77	-55.53	3.01	-4.26	-13.00	-43.77
2509.80	H	-32.08	-30.40	3.67	-5.35	-13.00	-19.08

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ARFCN	:CH 251	Test Date	:2015-07-09
Operation Band	:GSM 850	Temp./Humi.	:22 deg_C / 53 RH
Fundamental Frequency	:848.8 MHz	Engineer	:Curry
Operation Mode	:TX HIGH	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:E1 Plan		



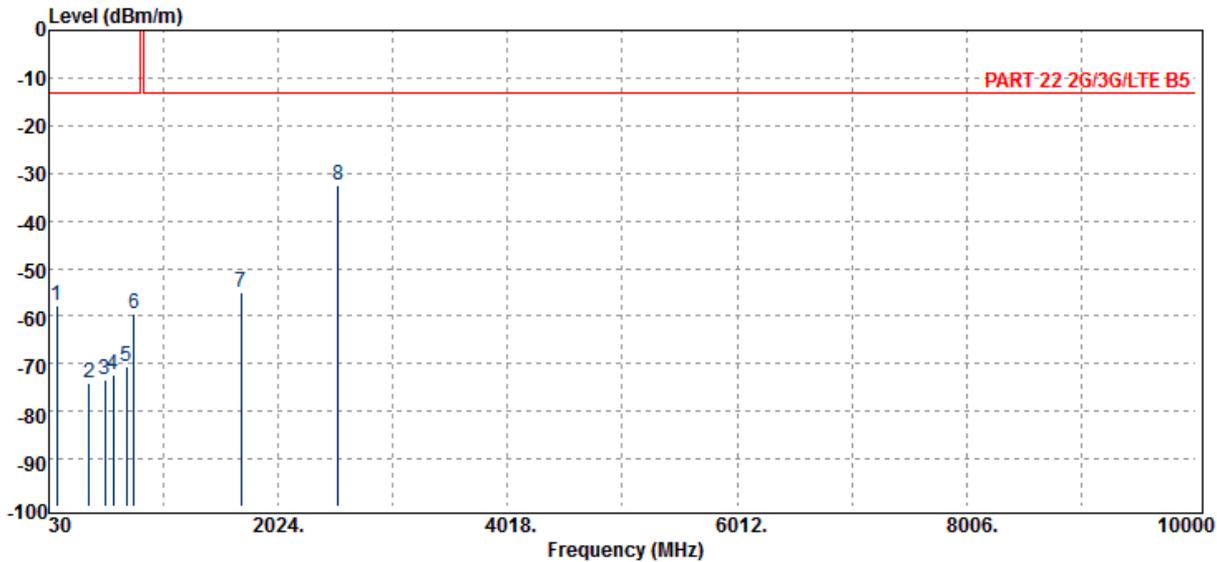
Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
81.41	S	-52.38	-48.91	-2.41	-1.06	-13.00	-39.38
239.52	S	-74.76	-76.43	3.29	-1.61	-13.00	-61.76
405.39	S	-74.46	-76.11	3.59	-1.94	-13.00	-61.46
479.11	S	-72.95	-74.37	3.59	-2.18	-13.00	-59.95
551.86	S	-70.59	-71.59	3.58	-2.58	-13.00	-57.59
772.05	S	-59.21	-59.81	3.35	-2.75	-13.00	-46.21
1697.60	H	-54.16	-52.85	2.96	-4.28	-13.00	-41.16
2546.40	H	-34.01	-32.35	3.75	-5.41	-13.00	-21.01

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ARFCN	:CH 251	Test Date	:2015-07-09
Operation Band	:GSM 850	Temp./Humi.	:22 deg_C / 53 RH
Fundamental Frequency	:848.8 MHz	Engineer	:Curry
Operation Mode	:TX HIGH	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:E1 Plan		



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
95.96	S	-57.79	-55.59	-1.10	-1.11	-13.00	-44.79
380.17	S	-74.00	-75.72	3.67	-1.95	-13.00	-61.00
514.03	S	-73.30	-74.63	3.71	-2.38	-13.00	-60.30
585.81	S	-72.45	-73.19	3.48	-2.75	-13.00	-59.45
706.09	S	-70.71	-71.48	3.37	-2.60	-13.00	-57.71
773.02	S	-59.63	-60.24	3.36	-2.75	-13.00	-46.63
1697.60	H	-54.94	-53.63	2.96	-4.28	-13.00	-41.94
2546.40	H	-32.52	-30.87	3.75	-5.41	-13.00	-19.52

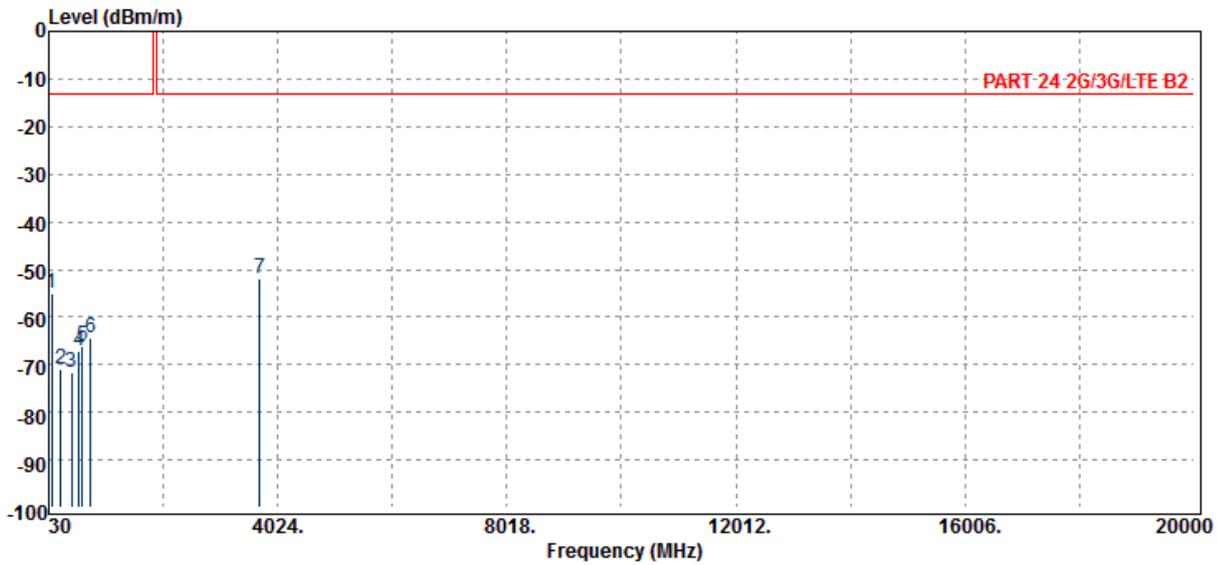
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**Radiated Spurious Emission Measurement Result: GSM 1900 Mode**

ARFCN	:CH 512	Test Date	:2015-07-09
Operation Band	:GSM 1900	Temp./Humi.	:22 deg_C / 53 RH
Fundamental Frequency	:1850.2 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL



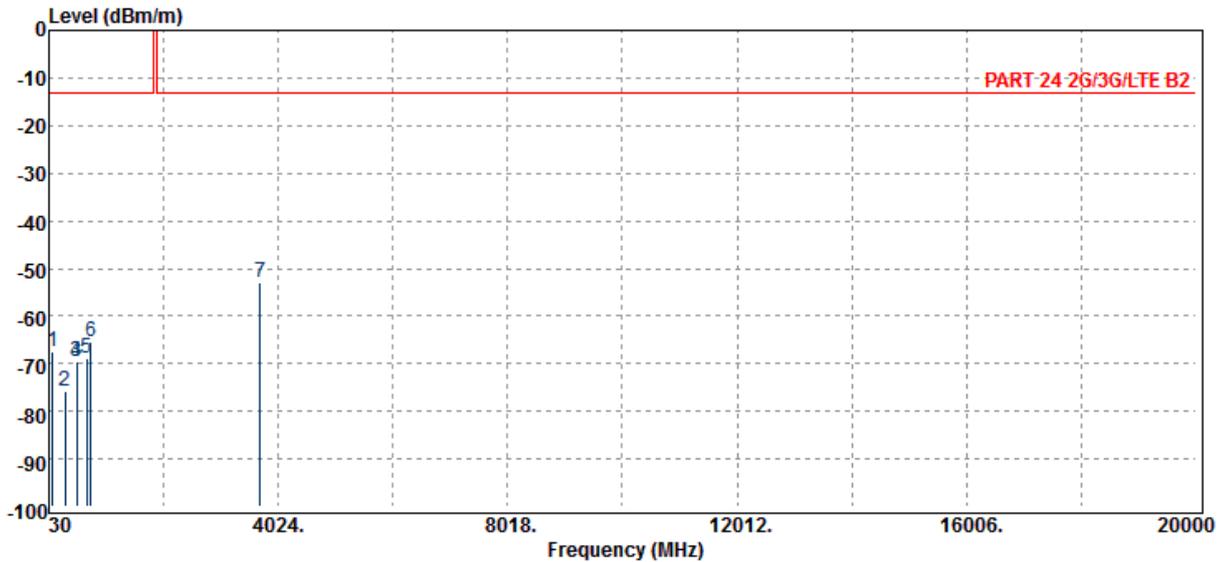
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
87.23	S	-55.08	-55.10	1.10	-1.08	-13.00	-42.08
235.64	S	-70.89	-74.75	5.45	-1.59	-13.00	-57.89
420.91	S	-71.63	-75.30	5.65	-1.98	-13.00	-58.63
554.77	S	-67.22	-70.35	5.72	-2.60	-13.00	-54.22
608.12	S	-66.17	-69.07	5.63	-2.73	-13.00	-53.17
756.53	S	-64.47	-67.21	5.45	-2.71	-13.00	-51.47
3700.40	H	-52.00	-53.55	8.43	-6.88	-13.00	-39.00

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ARFCN	:CH 512	Test Date	:2015-07-09
Operation Band	:GSM 1900	Temp./Humi.	:22 deg_C / 53 RH
Fundamental Frequency	:1850.2 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL



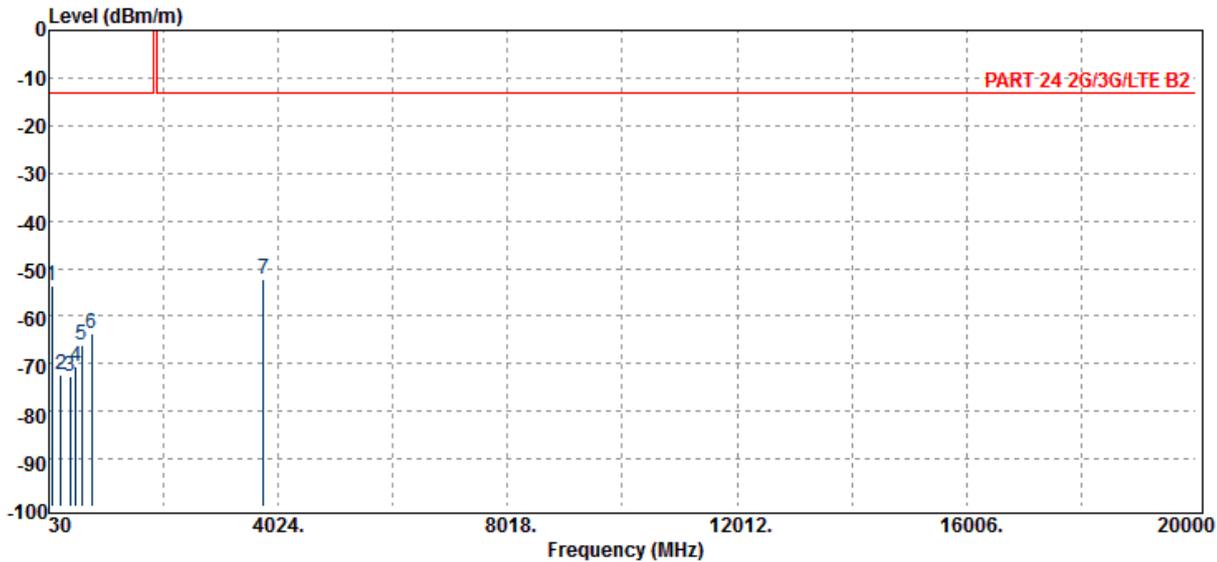
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
94.99	S	-67.43	-67.49	1.16	-1.11	-13.00	-54.43
316.15	S	-75.90	-79.88	5.82	-1.85	-13.00	-62.90
513.06	S	-69.61	-73.10	5.86	-2.38	-13.00	-56.61
513.06	S	-69.61	-73.10	5.86	-2.38	-13.00	-56.61
693.48	S	-68.83	-71.78	5.56	-2.61	-13.00	-55.83
764.29	S	-65.49	-68.24	5.48	-2.73	-13.00	-52.49
3700.40	H	-52.98	-54.53	8.43	-6.88	-13.00	-39.98

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ARFCN	:CH 661	Test Date	:2015-07-09
Operation Band	:GSM 1900	Temp./Humi.	:22 deg_C / 53 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Curry
Operation Mode	:TX MID	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:E2 Plan		



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
86.26	S	-53.75	-53.55	0.88	-1.08	-13.00	-40.75
235.64	S	-72.39	-76.25	5.45	-1.59	-13.00	-59.39
395.69	S	-72.52	-76.36	5.78	-1.95	-13.00	-59.52
492.69	S	-70.52	-74.11	5.85	-2.26	-13.00	-57.52
606.18	S	-65.94	-68.82	5.62	-2.74	-13.00	-52.94
775.93	S	-63.84	-66.59	5.52	-2.76	-13.00	-50.84
3760.00	H	-52.31	-53.75	8.46	-7.02	-13.00	-39.31

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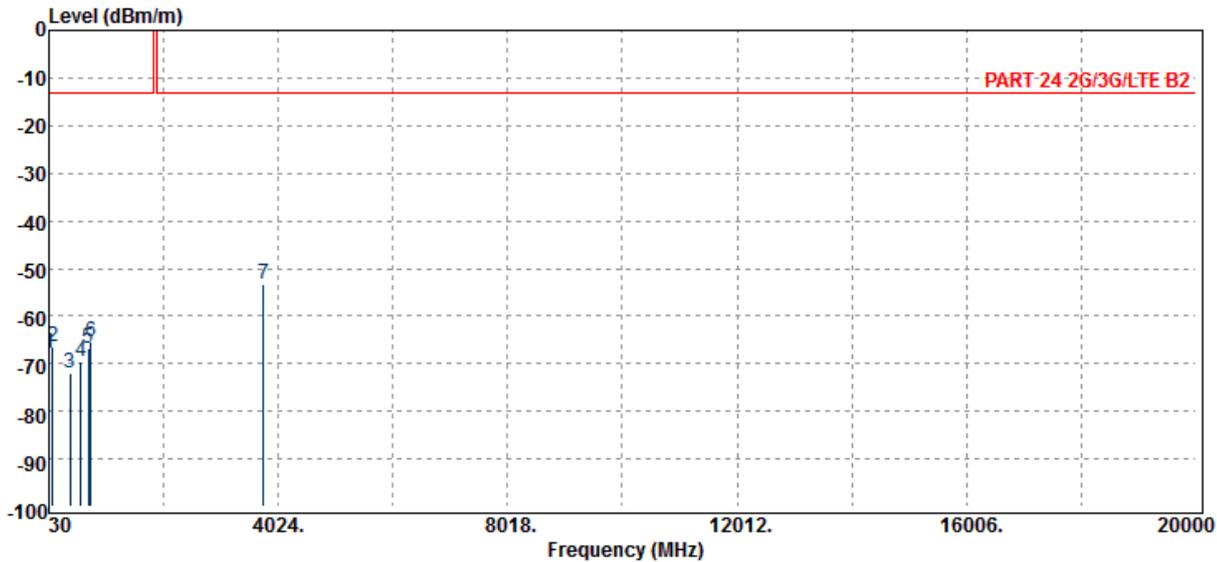
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ARFCN	:CH 661	Test Date	:2015-07-09
Operation Band	:GSM 1900	Temp./Humi.	:22 deg_C / 53 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Curry
Operation Mode	:TX MID	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:E2 Plan		



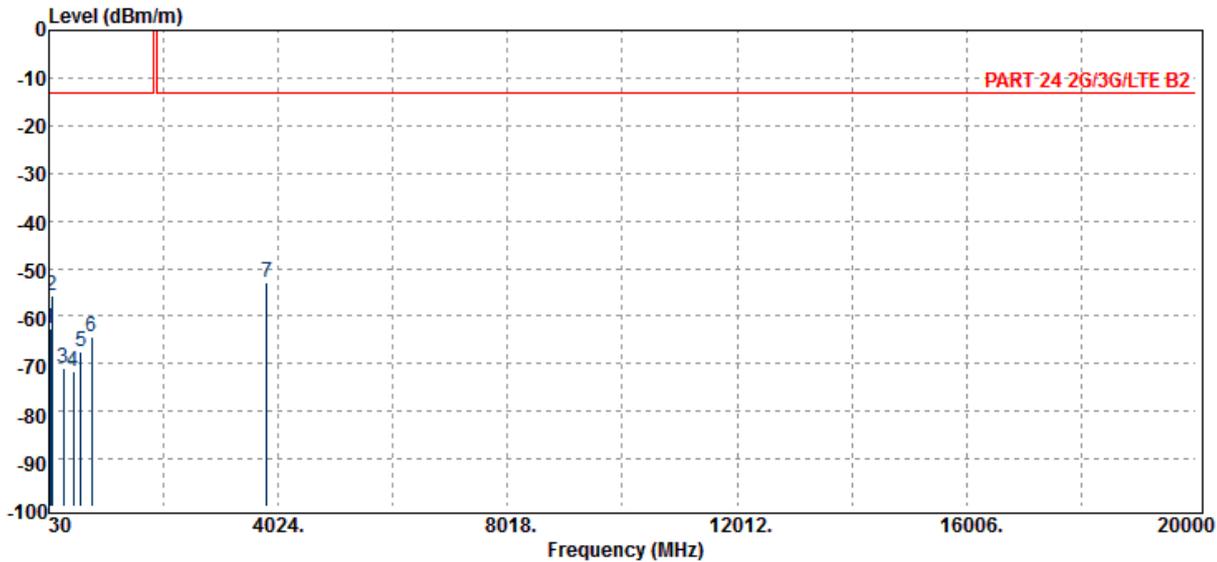
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
34.85	S	-67.86	-55.55	-11.52	-0.78	-13.00	-54.86
99.84	S	-66.35	-65.88	0.65	-1.12	-13.00	-53.35
405.39	S	-72.13	-75.92	5.74	-1.94	-13.00	-59.13
582.90	S	-69.62	-72.53	5.64	-2.73	-13.00	-56.62
719.67	S	-66.78	-69.65	5.49	-2.62	-13.00	-53.78
765.26	S	-65.24	-67.99	5.48	-2.73	-13.00	-52.24
3760.00	H	-53.38	-54.82	8.46	-7.02	-13.00	-40.38

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ARFCN	:CH 810	Test Date	:2015-07-09
Operation Band	:GSM 1900	Temp./Humi.	:22 deg_C / 53 RH
Fundamental Frequency	:1909.8 MHz	Engineer	:Curry
Operation Mode	:TX HIGH	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:E2 Plan		



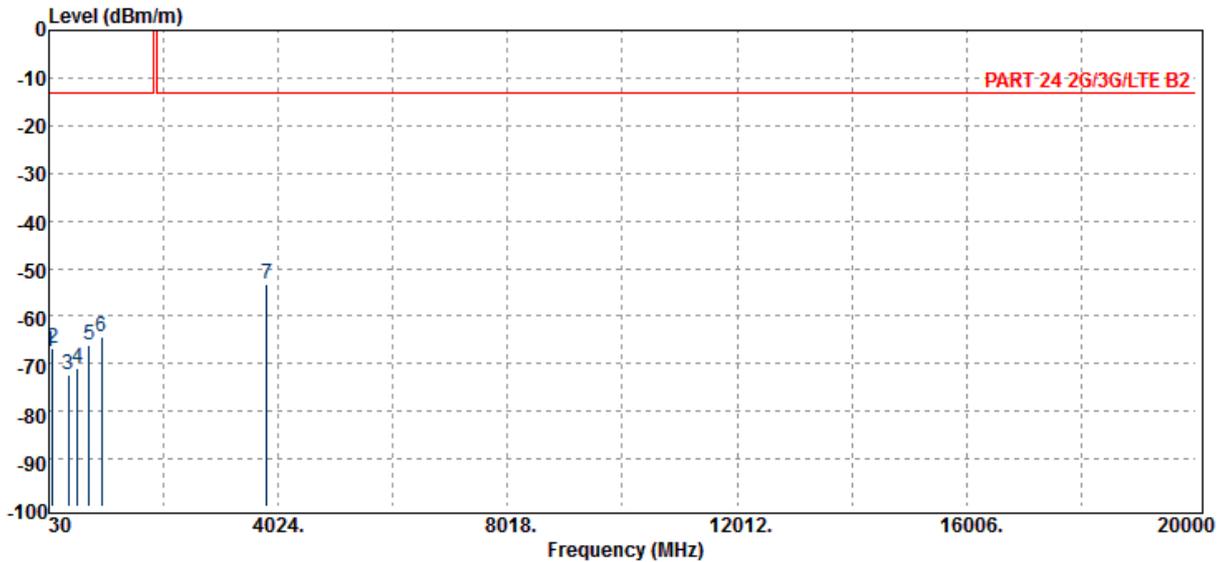
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
47.46	S	-62.48	-51.85	-9.74	-0.89	-13.00	-49.48
83.35	S	-55.70	-54.84	0.20	-1.06	-13.00	-42.70
286.08	S	-71.08	-74.89	5.54	-1.73	-13.00	-58.08
459.71	S	-71.47	-74.96	5.58	-2.09	-13.00	-58.47
580.96	S	-67.40	-70.33	5.65	-2.72	-13.00	-54.40
767.20	S	-64.35	-67.10	5.49	-2.74	-13.00	-51.35
3819.60	H	-53.05	-54.50	8.50	-7.05	-13.00	-40.05

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ARFCN	:CH 810	Test Date	:2015-07-09
Operation Band	:GSM 1900	Temp./Humi.	:22 deg_C / 53 RH
Fundamental Frequency	:1909.8 MHz	Engineer	:Curry
Operation Mode	:TX HIGH	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:E2 Plan		



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
33.88	S	-67.59	-55.07	-11.75	-0.77	-13.00	-54.59
97.90	S	-66.92	-66.66	0.85	-1.11	-13.00	-53.92
368.53	S	-72.46	-76.36	5.86	-1.96	-13.00	-59.46
528.58	S	-71.06	-74.41	5.81	-2.46	-13.00	-58.06
725.49	S	-66.20	-69.04	5.48	-2.64	-13.00	-53.20
946.65	S	-64.36	-66.55	5.39	-3.20	-13.00	-51.36
3819.60	H	-53.32	-54.77	8.50	-7.05	-13.00	-40.32

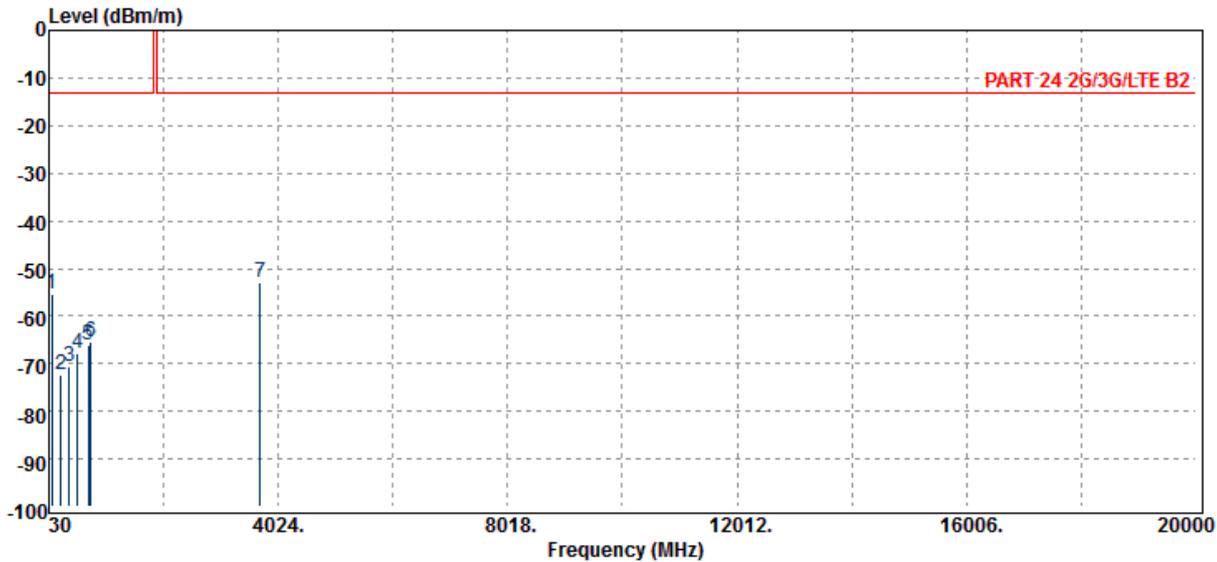
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**Radiated Spurious Emission Measurement Result: HSDPA II Mode**

ARFCN	:CH 9262	Test Date	:2015-07-09
Operation Band	:HSDPA B2	Temp./Humi.	:22 deg_C / 53 RH
Fundamental Frequency	:1852.4 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL



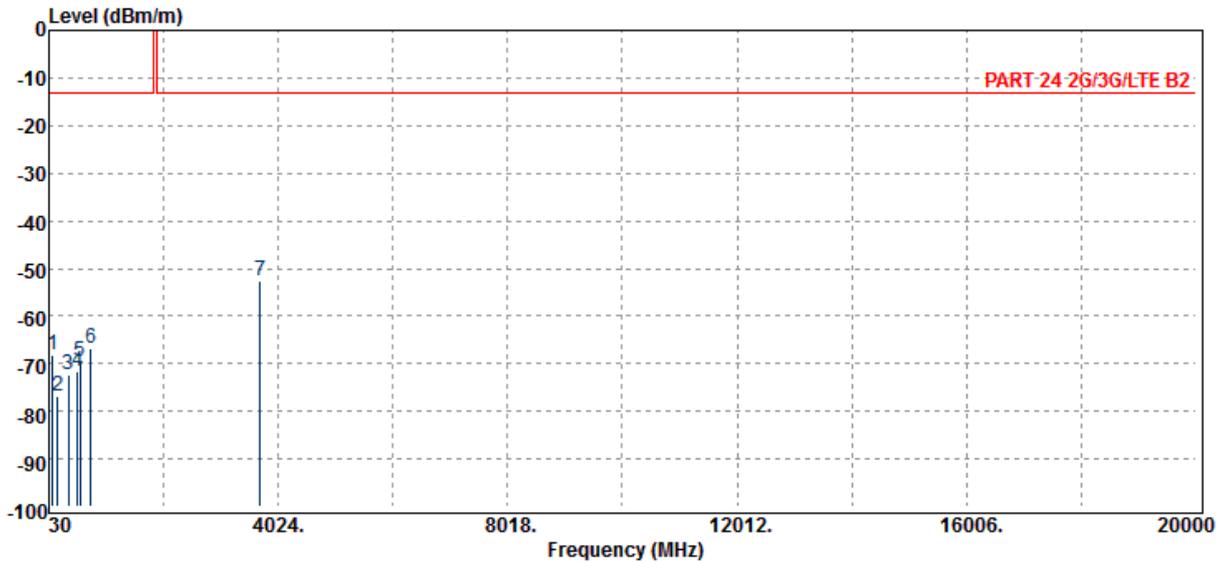
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
85.29	S	-55.50	-55.08	0.65	-1.07	-13.00	-42.50
235.64	S	-72.30	-76.15	5.45	-1.59	-13.00	-59.30
383.08	S	-70.47	-74.34	5.82	-1.95	-13.00	-57.47
526.64	S	-67.72	-71.08	5.82	-2.45	-13.00	-54.72
712.88	S	-66.02	-68.92	5.51	-2.61	-13.00	-53.02
759.44	S	-65.24	-67.98	5.46	-2.72	-13.00	-52.24
3704.80	H	-52.87	-54.41	8.43	-6.89	-13.00	-39.87

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ARFCN	:CH 9262	Test Date	:2015-07-09
Operation Band	:HSDPA B2	Temp./Humi.	:22 deg_C / 53 RH
Fundamental Frequency	:1852.4 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL



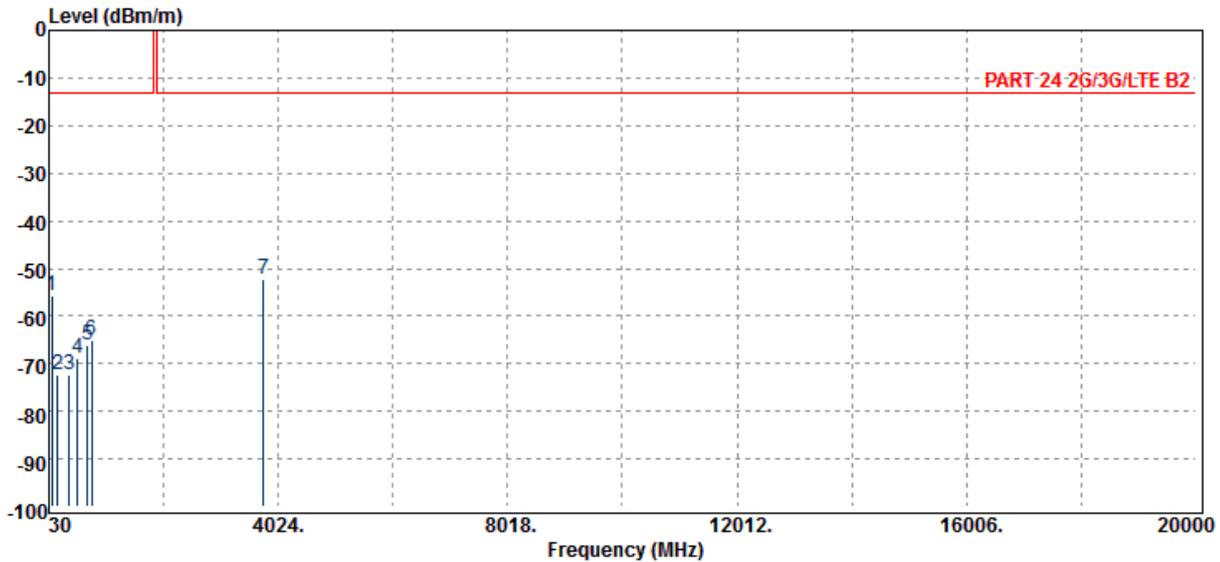
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
96.93	S	-68.13	-67.97	0.95	-1.11	-13.00	-55.13
181.32	S	-76.77	-78.63	3.36	-1.50	-13.00	-63.77
367.56	S	-72.47	-76.37	5.86	-1.96	-13.00	-59.47
526.64	S	-71.50	-74.86	5.82	-2.45	-13.00	-58.50
578.05	S	-69.50	-72.45	5.65	-2.71	-13.00	-56.50
754.59	S	-66.66	-69.40	5.45	-2.71	-13.00	-53.66
3704.80	H	-52.44	-53.98	8.43	-6.89	-13.00	-39.44

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ARFCN	:CH 9400	Test Date	:2015-07-09
Operation Band	:HSDPA B2	Temp./Humi.	:22 deg_C / 53 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Curry
Operation Mode	:TX MID	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:E2 Plan		



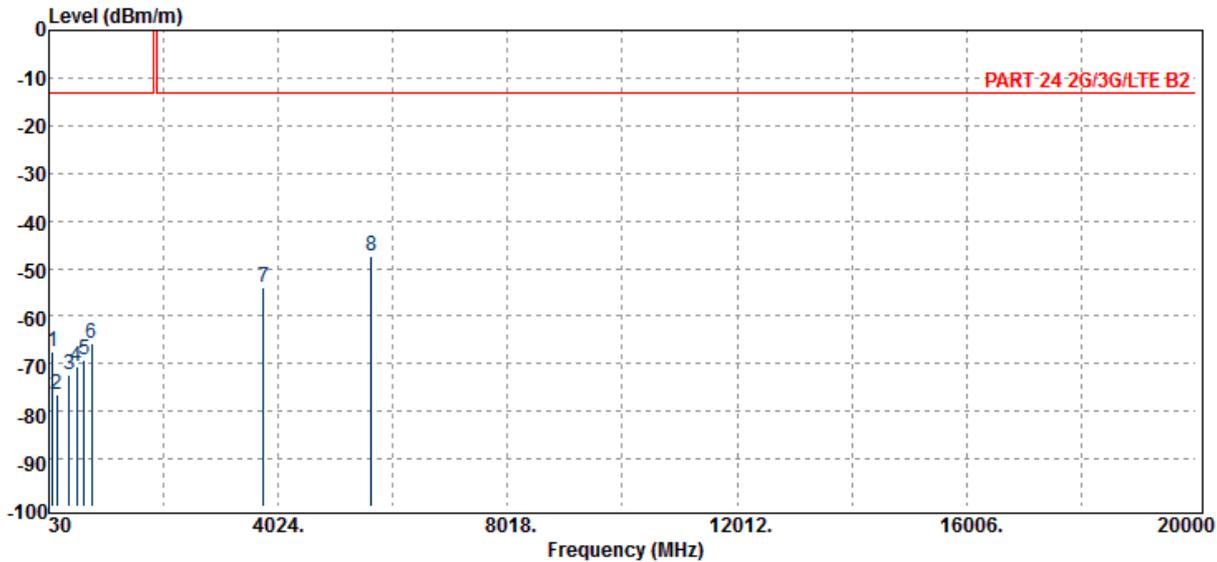
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
83.35	S	-55.68	-54.82	0.20	-1.06	-13.00	-42.68
179.38	S	-72.46	-73.99	3.03	-1.50	-13.00	-59.46
379.20	S	-72.44	-76.31	5.83	-1.95	-13.00	-59.44
528.58	S	-68.78	-72.12	5.81	-2.46	-13.00	-55.78
696.39	S	-66.03	-68.97	5.55	-2.61	-13.00	-53.03
771.08	S	-65.09	-67.84	5.50	-2.75	-13.00	-52.09
3760.00	H	-52.10	-53.54	8.46	-7.02	-13.00	-39.10

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ARFCN	:CH 9400	Test Date	:2015-07-09
Operation Band	:HSDPA B2	Temp./Humi.	:22 deg_C / 53 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Curry
Operation Mode	:TX MID	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:E2 Plan		



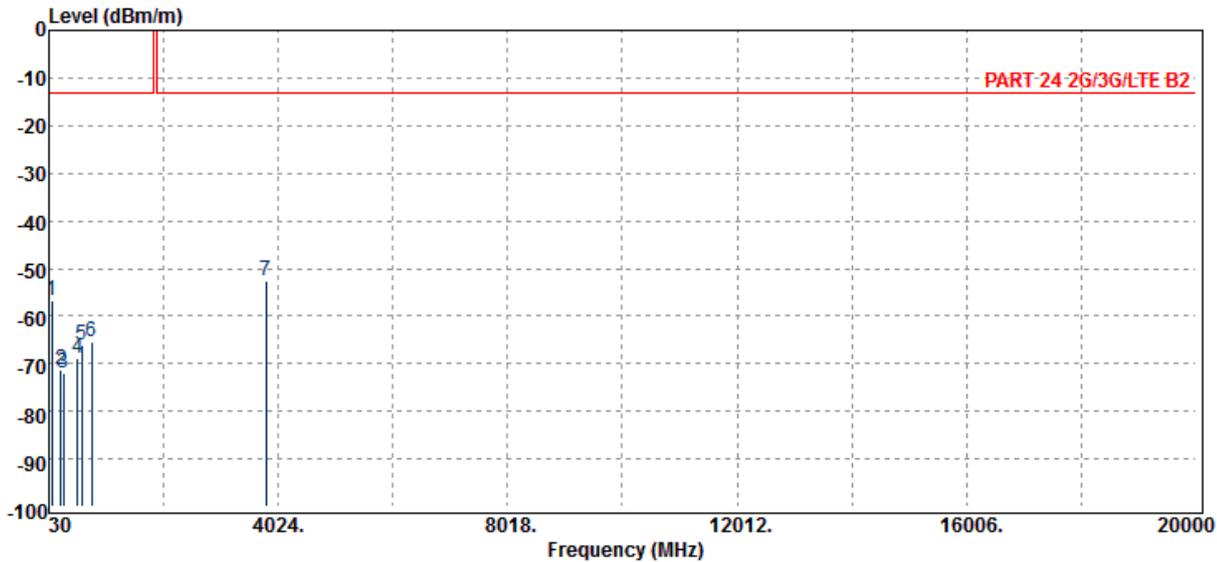
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
100.81	S	-67.49	-66.93	0.56	-1.12	-13.00	-54.49
172.59	S	-76.45	-76.85	1.89	-1.49	-13.00	-63.45
380.17	S	-72.39	-76.26	5.82	-1.95	-13.00	-59.39
517.91	S	-70.50	-73.95	5.85	-2.40	-13.00	-57.50
648.86	S	-69.21	-72.33	5.78	-2.66	-13.00	-56.21
774.96	S	-65.63	-68.38	5.51	-2.76	-13.00	-52.63
3760.00	H	-54.00	-55.44	8.46	-7.02	-13.00	-41.00
5640.00	H	-47.35	-48.87	10.11	-8.59	-13.00	-34.35

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ARFCN	:CH 9538	Test Date	:2015-07-09
Operation Band	:HSDPA B2	Temp./Humi.	:22 deg_C / 53 RH
Fundamental Frequency	:1907.6 MHz	Engineer	:Curry
Operation Mode	:TX HIGH	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:E2 Plan		



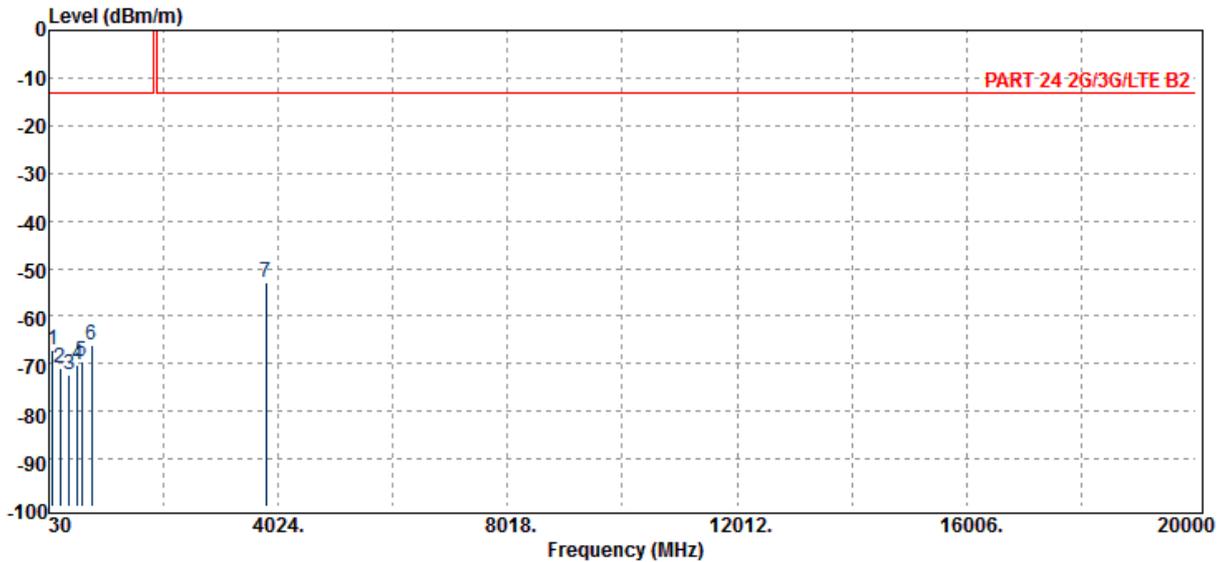
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
86.26	S	-56.72	-56.53	0.88	-1.08	-13.00	-43.72
236.61	S	-71.39	-75.24	5.44	-1.60	-13.00	-58.39
286.08	S	-72.01	-75.81	5.54	-1.73	-13.00	-59.01
524.70	S	-68.82	-72.21	5.82	-2.44	-13.00	-55.82
602.30	S	-65.92	-68.78	5.60	-2.74	-13.00	-52.92
767.20	S	-65.27	-68.02	5.49	-2.74	-13.00	-52.27
3815.20	H	-52.71	-54.15	8.49	-7.05	-13.00	-39.71

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ARFCN	:CH 9538	Test Date	:2015-07-09
Operation Band	:HSDPA B2	Temp./Humi.	:22 deg_C / 53 RH
Fundamental Frequency	:1907.6 MHz	Engineer	:Curry
Operation Mode	:TX HIGH	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:E2 Plan		



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
98.87	S	-66.96	-66.59	0.75	-1.12	-13.00	-53.96
223.03	S	-70.80	-74.71	5.47	-1.57	-13.00	-57.80
378.23	S	-72.17	-76.05	5.83	-1.95	-13.00	-59.17
535.37	S	-70.35	-73.63	5.79	-2.50	-13.00	-57.35
597.45	S	-69.61	-72.45	5.60	-2.75	-13.00	-56.61
775.93	S	-66.18	-68.93	5.52	-2.76	-13.00	-53.18
3815.20	H	-52.98	-54.42	8.49	-7.05	-13.00	-39.98

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**Radiated Spurious Emission Measurement Result: HSDPA V Mode**

ARFCN	:CH 4132	Test Date	:2015-07-09
Operation Band	:HSDPA B5	Temp./Humi.	:22 deg_C / 53 RH
Fundamental Frequency	:826.4 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
85.29	S	-54.26	-51.70	-1.50	-1.07	-13.00	-41.26
235.64	S	-73.83	-75.53	3.30	-1.59	-13.00	-60.83
390.84	S	-74.48	-76.18	3.65	-1.95	-13.00	-61.48
496.57	S	-73.30	-74.75	3.73	-2.28	-13.00	-60.30
683.78	S	-69.04	-69.88	3.46	-2.62	-13.00	-56.04
773.02	S	-57.49	-58.09	3.36	-2.75	-13.00	-44.49
2479.20	H	-38.45	-36.73	3.61	-5.32	-13.00	-25.45

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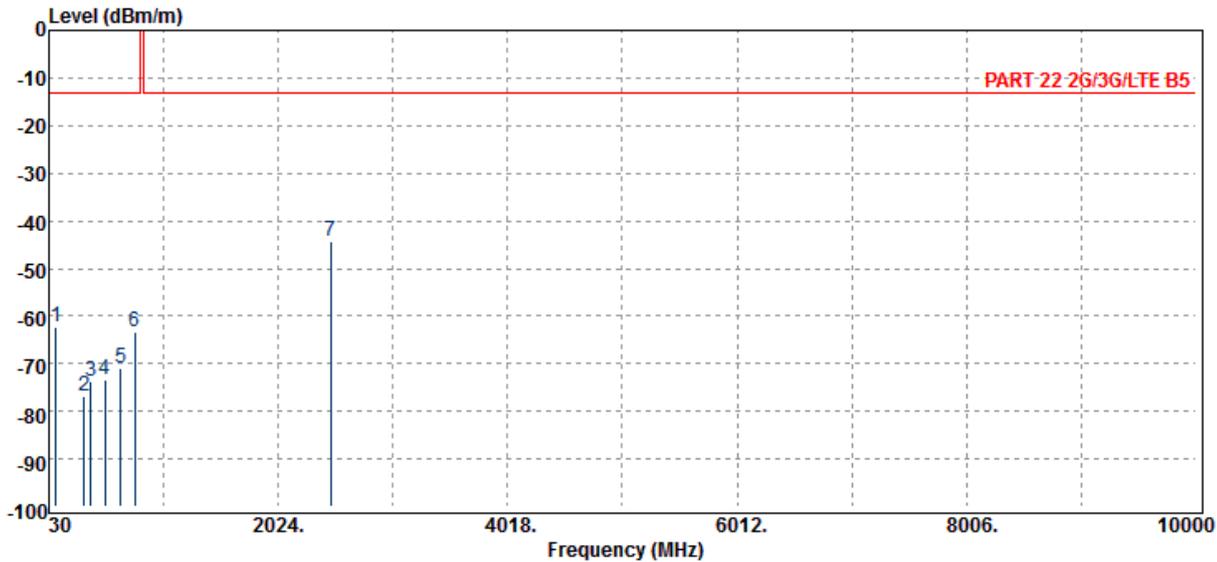
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ARFCN	:CH 4132	Test Date	:2015-07-09
Operation Band	:HSDPA B5	Temp./Humi.	:22 deg_C / 53 RH
Fundamental Frequency	:826.4 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
92.08	S	-62.17	-60.41	-0.67	-1.10	-13.00	-49.17
335.55	S	-76.96	-78.77	3.72	-1.92	-13.00	-63.96
392.78	S	-73.61	-75.30	3.64	-1.95	-13.00	-60.61
517.91	S	-73.42	-74.71	3.70	-2.40	-13.00	-60.42
650.80	S	-70.93	-71.90	3.63	-2.66	-13.00	-57.93
776.90	S	-63.45	-64.05	3.37	-2.77	-13.00	-50.45
2479.20	H	-44.37	-42.65	3.61	-5.32	-13.00	-31.37

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ARFCN	:CH 4183	Test Date	:2015-07-09
Operation Band	:HSDPA B5	Temp./Humi.	:22 deg_C / 53 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Curry
Operation Mode	:TX MID	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:E1 Plan		



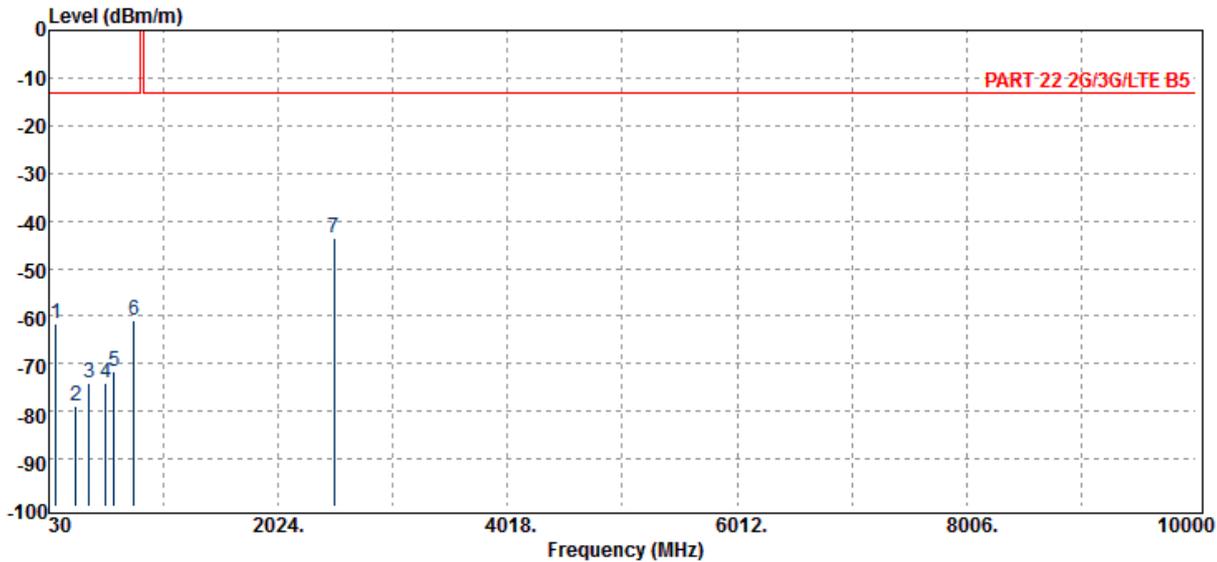
Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
84.32	S	-54.43	-51.64	-1.72	-1.07	-13.00	-41.43
235.64	S	-74.67	-76.37	3.30	-1.59	-13.00	-61.67
344.28	S	-74.14	-75.94	3.75	-1.95	-13.00	-61.14
556.71	S	-70.92	-71.88	3.57	-2.61	-13.00	-57.92
600.36	S	-68.59	-69.29	3.44	-2.75	-13.00	-55.59
773.02	S	-59.38	-59.98	3.36	-2.75	-13.00	-46.38
2509.80	H	-37.79	-36.11	3.67	-5.35	-13.00	-24.79

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ARFCN	:CH 4183	Test Date	:2015-07-09
Operation Band	:HSDPA B5	Temp./Humi.	:22 deg_C / 53 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Curry
Operation Mode	:TX MID	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:E1 Plan		



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
93.05	S	-61.65	-59.77	-0.78	-1.10	-13.00	-48.65
263.77	S	-78.99	-80.97	3.65	-1.68	-13.00	-65.99
377.26	S	-74.17	-75.90	3.68	-1.96	-13.00	-61.17
520.82	S	-74.05	-75.32	3.69	-2.42	-13.00	-61.05
594.54	S	-71.76	-72.46	3.46	-2.76	-13.00	-58.76
773.02	S	-61.04	-61.64	3.36	-2.75	-13.00	-48.04
2509.80	H	-43.74	-42.06	3.67	-5.35	-13.00	-30.74

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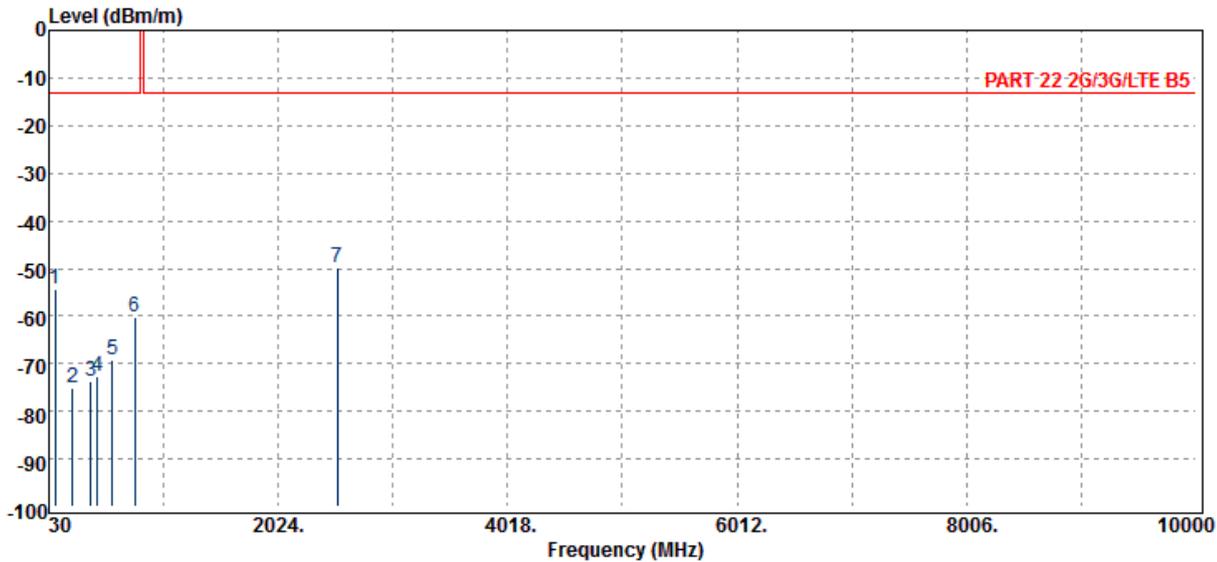
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ARFCN	:CH 4233	Test Date	:2015-07-09
Operation Band	:HSDPA B5	Temp./Humi.	:22 deg_C / 53 RH
Fundamental Frequency	:846.6 MHz	Engineer	:Curry
Operation Mode	:TX HIGH	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:E1 Plan		



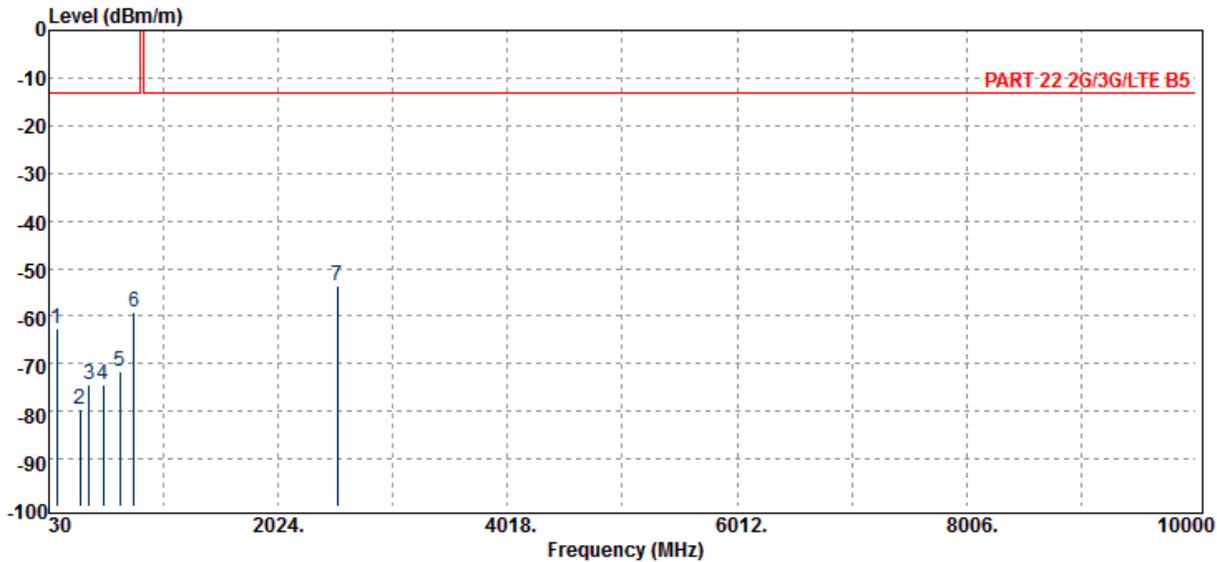
Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
85.29	S	-54.18	-51.61	-1.50	-1.07	-13.00	-41.18
236.61	S	-75.13	-76.83	3.29	-1.60	-13.00	-62.13
393.75	S	-73.87	-75.56	3.64	-1.95	-13.00	-60.87
453.89	S	-72.72	-74.02	3.38	-2.08	-13.00	-59.72
582.90	S	-69.18	-69.94	3.49	-2.73	-13.00	-56.18
774.96	S	-60.16	-60.77	3.36	-2.76	-13.00	-47.16
2539.80	H	-49.99	-48.33	3.74	-5.40	-13.00	-36.99

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ARFCN	:CH 4233	Test Date	:2015-07-09
Operation Band	:HSDPA B5	Temp./Humi.	:22 deg_C / 53 RH
Fundamental Frequency	:846.6 MHz	Engineer	:Curry
Operation Mode	:TX HIGH	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:E1 Plan		



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
95.96	S	-62.68	-60.48	-1.10	-1.11	-13.00	-49.68
300.63	S	-79.43	-81.27	3.62	-1.79	-13.00	-66.43
379.20	S	-74.47	-76.20	3.68	-1.95	-13.00	-61.47
501.42	S	-74.35	-75.80	3.75	-2.31	-13.00	-61.35
644.98	S	-71.61	-72.57	3.62	-2.67	-13.00	-58.61
771.08	S	-59.32	-59.93	3.35	-2.75	-13.00	-46.32
2539.80	H	-53.63	-51.97	3.74	-5.40	-13.00	-40.63

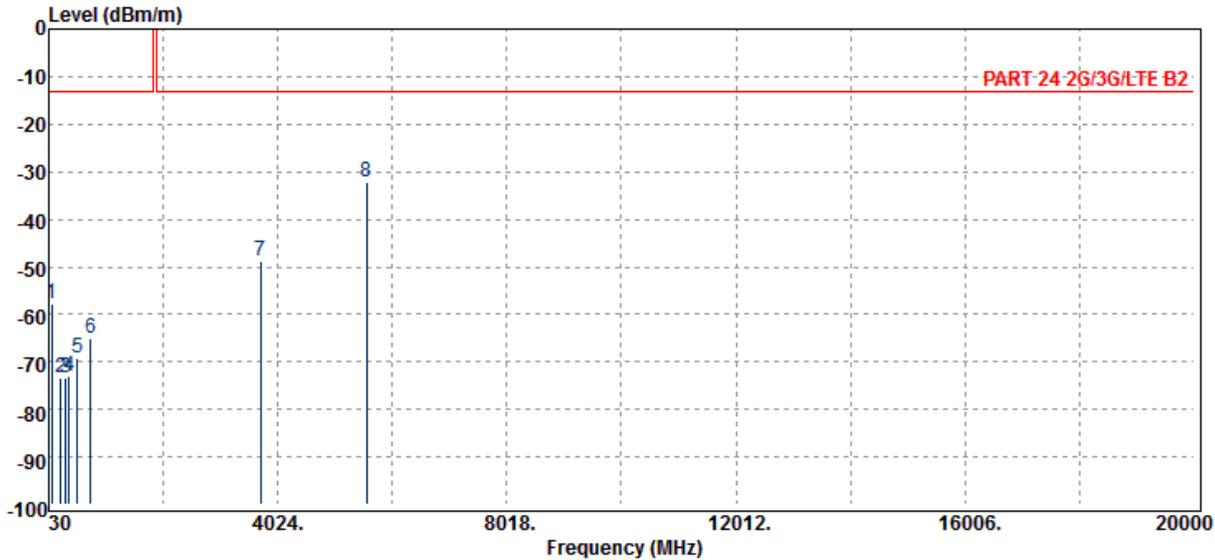
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**Radiated Spurious Emission Measurement Result: 15MHz BW LTE-Band 2(The Worst Case)**

ARFCN	:CH 18675 16QAM BW 15 RB 1 74	Test Date	:2015-07-09
Operation Band	:LTE B2	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:1857.5 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
78.50	S	-57.83	-55.74	-1.04	-1.05	-13.00	-44.83
235.64	S	-73.21	-77.06	5.45	-1.59	-13.00	-60.21
330.70	S	-73.43	-77.39	5.86	-1.90	-13.00	-60.43
382.11	S	-73.03	-76.90	5.82	-1.95	-13.00	-60.03
531.49	S	-69.12	-72.45	5.80	-2.48	-13.00	-56.12
765.26	S	-65.15	-67.90	5.48	-2.73	-13.00	-52.15
3715.00	H	-48.73	-50.25	8.43	-6.91	-13.00	-35.73
5572.50	H	-32.30	-33.88	10.11	-8.53	-13.00	-19.30

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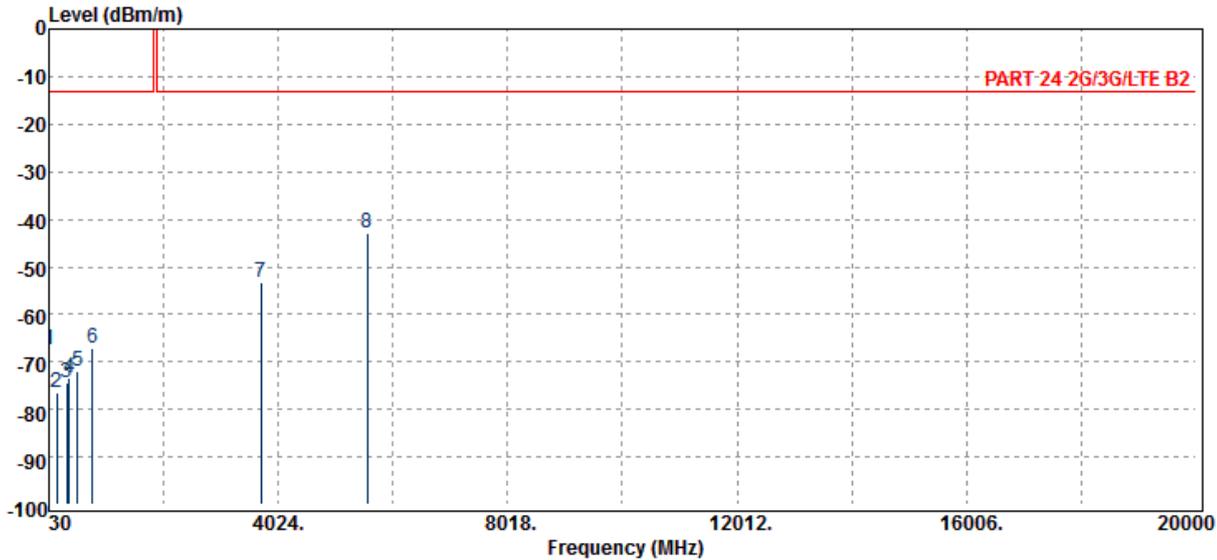
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ARFCN	:CH 18675 16QAM BW 15 RB 1 74	Test Date	:2015-07-09
Operation Band	:LTE B2	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:1857.5 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:HORIZONTAL



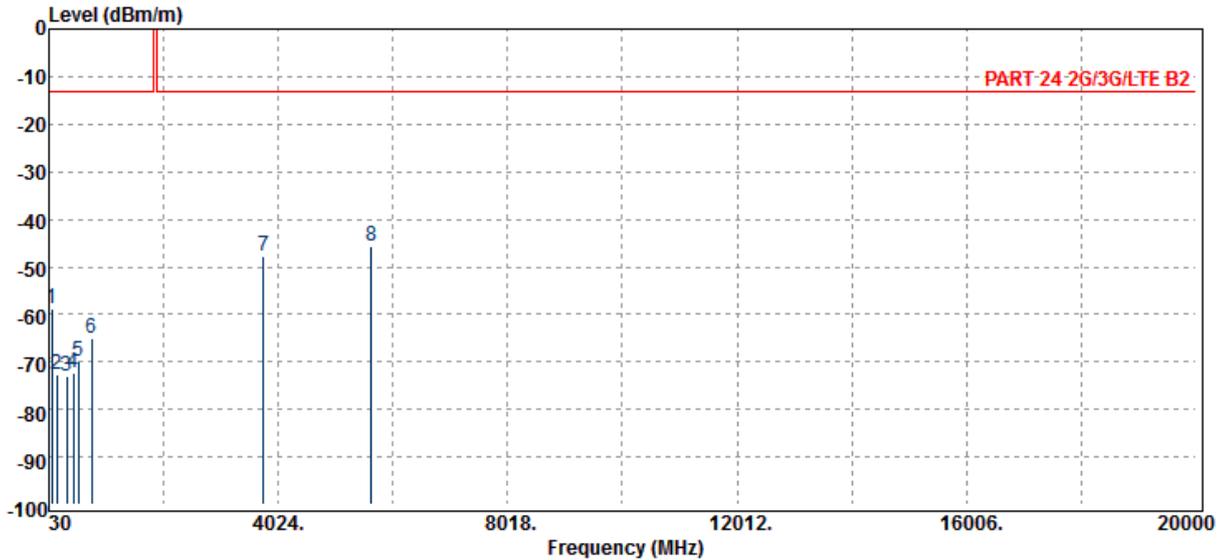
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
31.94	S	-67.54	-54.57	-12.22	-0.75	-13.00	-54.54
173.56	S	-76.62	-77.18	2.05	-1.49	-13.00	-63.62
337.49	S	-74.48	-78.43	5.88	-1.92	-13.00	-61.48
386.96	S	-73.32	-77.18	5.81	-1.95	-13.00	-60.32
532.46	S	-71.96	-75.27	5.80	-2.48	-13.00	-58.96
781.75	S	-67.26	-70.01	5.53	-2.79	-13.00	-54.26
3715.00	H	-53.22	-54.75	8.43	-6.91	-13.00	-40.22
5572.50	H	-42.79	-44.37	10.11	-8.53	-13.00	-29.79

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ARFCN	:CH 18900 16QAM BW 15 RB 1 74	Test Date	:2015-07-09
Operation Band	:LTE B2	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:1880 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
76.56	S	-58.89	-56.23	-1.62	-1.04	-13.00	-45.89
167.74	S	-72.63	-72.43	1.28	-1.47	-13.00	-59.63
342.34	S	-73.02	-76.98	5.89	-1.94	-13.00	-60.02
450.01	S	-72.42	-75.85	5.49	-2.07	-13.00	-59.42
546.04	S	-69.94	-73.14	5.75	-2.55	-13.00	-56.94
776.90	S	-64.94	-67.69	5.52	-2.77	-13.00	-51.94
3760.00	H	-47.71	-49.15	8.46	-7.02	-13.00	-34.71
5640.00	H	-45.80	-47.32	10.11	-8.59	-13.00	-32.80

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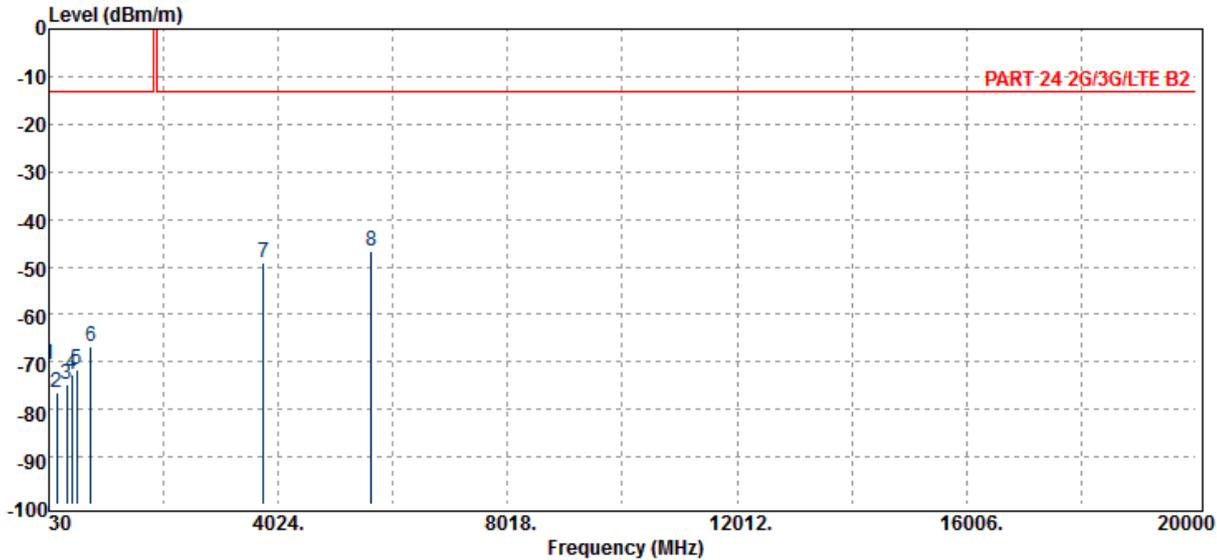
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ARFCN	:CH 18900 16QAM BW 15 RB 1 74	Test Date	:2015-07-09
Operation Band	:LTE B2	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:1880 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
31.94	S	-70.59	-57.61	-12.22	-0.75	-13.00	-57.59
167.74	S	-76.36	-76.17	1.28	-1.47	-13.00	-63.36
343.31	S	-74.87	-78.82	5.89	-1.94	-13.00	-61.87
430.61	S	-72.75	-76.34	5.60	-2.01	-13.00	-59.75
508.21	S	-71.66	-75.20	5.88	-2.35	-13.00	-58.66
764.29	S	-66.86	-69.61	5.48	-2.73	-13.00	-53.86
3760.00	H	-49.02	-50.46	8.46	-7.02	-13.00	-36.02
5640.00	H	-46.80	-48.32	10.11	-8.59	-13.00	-33.80

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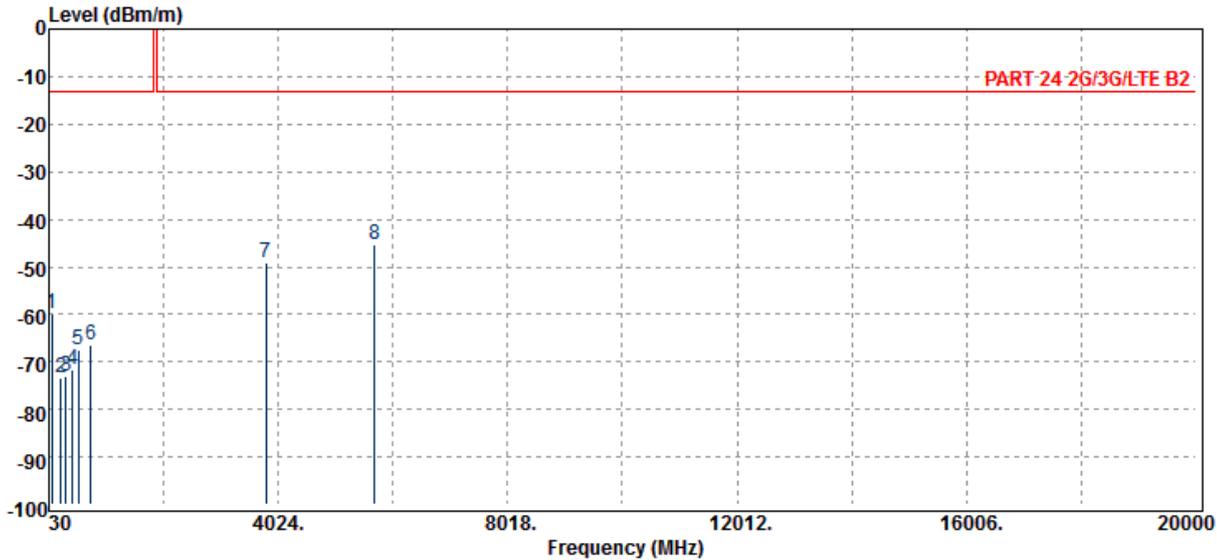
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ARFCN	:CH 19125 16QAM BW 15 RB 1 74	Test Date	:2015-07-09
Operation Band	:LTE B2	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:1902.5 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:VERTICAL



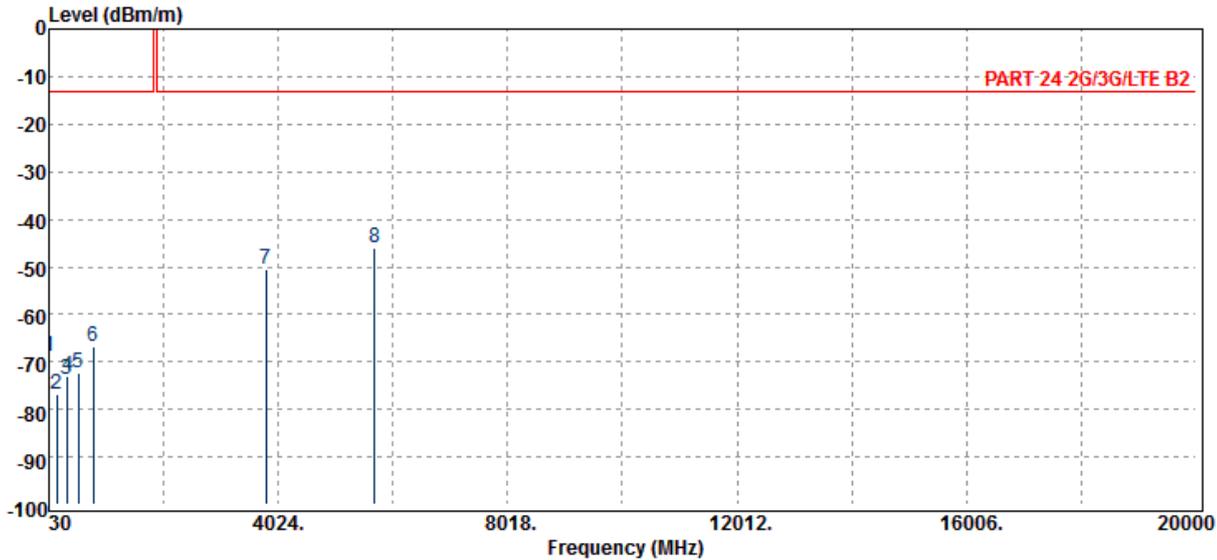
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
75.59	S	-60.02	-57.08	-1.91	-1.03	-13.00	-47.02
241.46	S	-73.36	-77.21	5.46	-1.61	-13.00	-60.36
323.91	S	-73.17	-77.14	5.84	-1.88	-13.00	-60.17
447.10	S	-71.73	-75.18	5.51	-2.06	-13.00	-58.73
542.16	S	-67.63	-70.86	5.76	-2.53	-13.00	-54.63
752.65	S	-66.31	-69.05	5.44	-2.70	-13.00	-53.31
3805.00	H	-49.11	-50.55	8.49	-7.05	-13.00	-36.11
5707.50	H	-45.33	-46.85	10.12	-8.60	-13.00	-32.33

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ARFCN	:CH 19125 16QAM BW 15 RB 1 74	Test Date	:2015-07-09
Operation Band	:LTE B2	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:1902.5 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
34.85	S	-68.93	-56.62	-11.52	-0.78	-13.00	-55.93
167.74	S	-76.72	-76.53	1.28	-1.47	-13.00	-63.72
335.55	S	-73.71	-77.67	5.87	-1.92	-13.00	-60.71
352.04	S	-72.84	-76.78	5.91	-1.97	-13.00	-59.84
537.31	S	-72.46	-75.73	5.78	-2.51	-13.00	-59.46
799.21	S	-66.71	-69.45	5.59	-2.85	-13.00	-53.71
3805.00	H	-50.35	-51.79	8.49	-7.05	-13.00	-37.35
5707.50	H	-46.00	-47.52	10.12	-8.60	-13.00	-33.00

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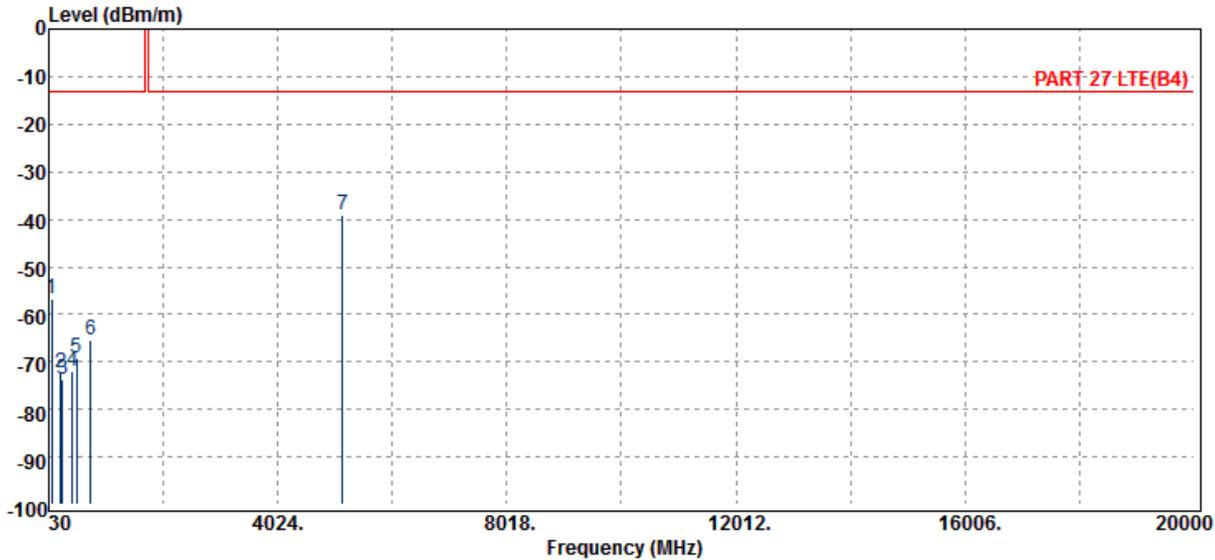
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**Radiated Spurious Emission Measurement Result: 15MHz BW LTE-Band 4(The Worst Case)**

ARFCN	:CH 20025 16QAM BW	Test Date	:2015-07-09
	15 RB 1 74		
Operation Band	:LTE B4	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:1717.5 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
75.59	S	-56.81	-53.87	-1.91	-1.03	-13.00	-43.81
236.61	S	-72.47	-76.31	5.44	-1.60	-13.00	-59.47
262.80	S	-73.74	-77.87	5.81	-1.67	-13.00	-60.74
449.04	S	-71.92	-75.36	5.50	-2.06	-13.00	-58.92
517.91	S	-69.27	-72.72	5.85	-2.40	-13.00	-56.27
764.29	S	-65.33	-68.08	5.48	-2.73	-13.00	-52.33
5152.50	H	-39.06	-40.47	9.89	-8.49	-13.00	-26.06

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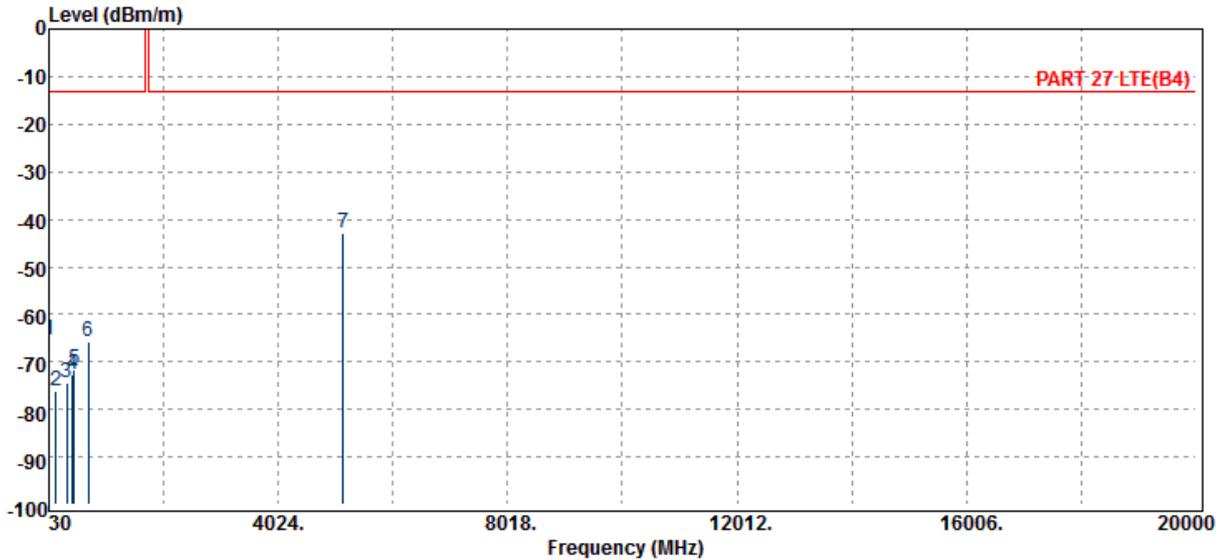
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ARFCN	:CH 20025 16QAM BW 15 RB 1 74	Test Date	:2015-07-09
Operation Band	:LTE B4	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:1717.5 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
31.94	S	-65.28	-52.30	-12.22	-0.75	-13.00	-52.28
154.16	S	-76.25	-75.17	0.33	-1.41	-13.00	-63.25
338.46	S	-74.28	-78.23	5.88	-1.93	-13.00	-61.28
442.25	S	-72.82	-76.31	5.54	-2.04	-13.00	-59.82
473.29	S	-71.68	-75.23	5.69	-2.14	-13.00	-58.68
713.85	S	-65.80	-68.70	5.50	-2.61	-13.00	-52.80
5152.50	H	-42.99	-44.40	9.89	-8.49	-13.00	-29.99

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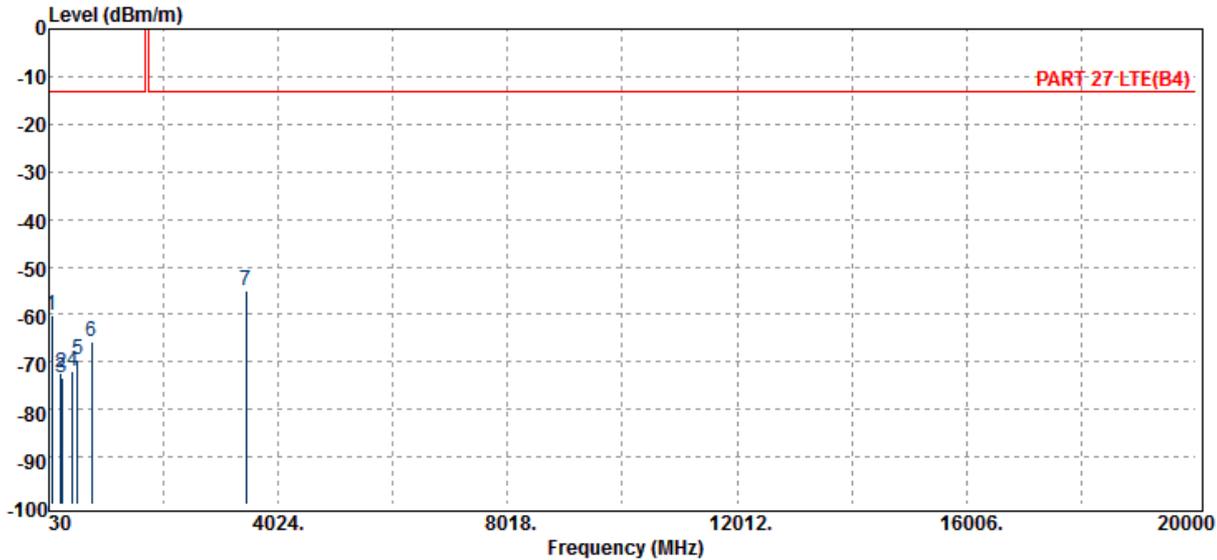
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ARFCN	:CH 20175 16QAM BW 15 RB 1 74	Test Date	:2015-07-09
Operation Band	:LTE B4	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:1732.5 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:VERTICAL

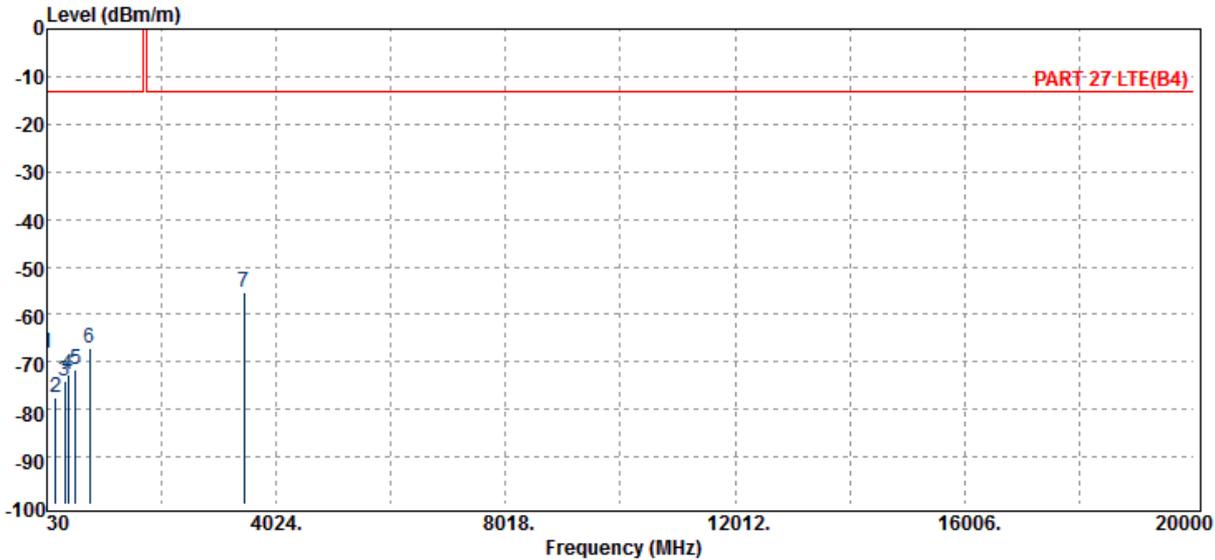


Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
73.65	S	-60.25	-56.72	-2.50	-1.03	-13.00	-47.25
236.61	S	-72.29	-76.14	5.44	-1.60	-13.00	-59.29
250.19	S	-73.24	-77.20	5.59	-1.64	-13.00	-60.24
435.46	S	-71.86	-75.41	5.57	-2.02	-13.00	-58.86
531.49	S	-69.65	-72.98	5.80	-2.48	-13.00	-56.65
778.84	S	-65.73	-68.48	5.53	-2.78	-13.00	-52.73
3465.00	H	-54.98	-56.65	8.20	-6.53	-13.00	-41.98

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ARFCN	:CH 20175 16QAM BW 15 RB 1 74	Test Date	:2015-07-09
Operation Band	:LTE B4	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:1732.5 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:HORIZONTAL

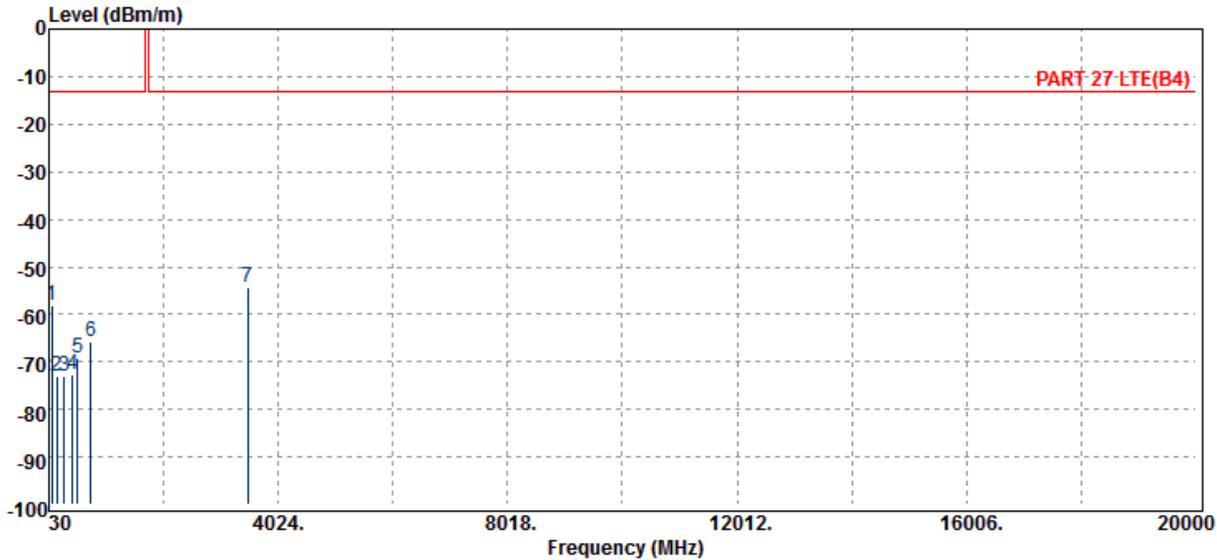


Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	S	-68.32	-54.86	-12.73	-0.73	-13.00	-55.32
178.41	S	-77.38	-78.76	2.87	-1.50	-13.00	-64.38
342.34	S	-73.96	-77.91	5.89	-1.94	-13.00	-60.96
395.69	S	-72.65	-76.49	5.78	-1.95	-13.00	-59.65
522.76	S	-71.62	-75.02	5.83	-2.43	-13.00	-58.62
767.20	S	-67.27	-70.03	5.49	-2.74	-13.00	-54.27
3465.00	H	-55.37	-57.04	8.20	-6.53	-13.00	-42.37

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ARFCN	:CH 20325 16QAM BW 15 RB 1 74	Test Date	:2015-07-09
Operation Band	:LTE B4	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:1747.5 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:VERTICAL



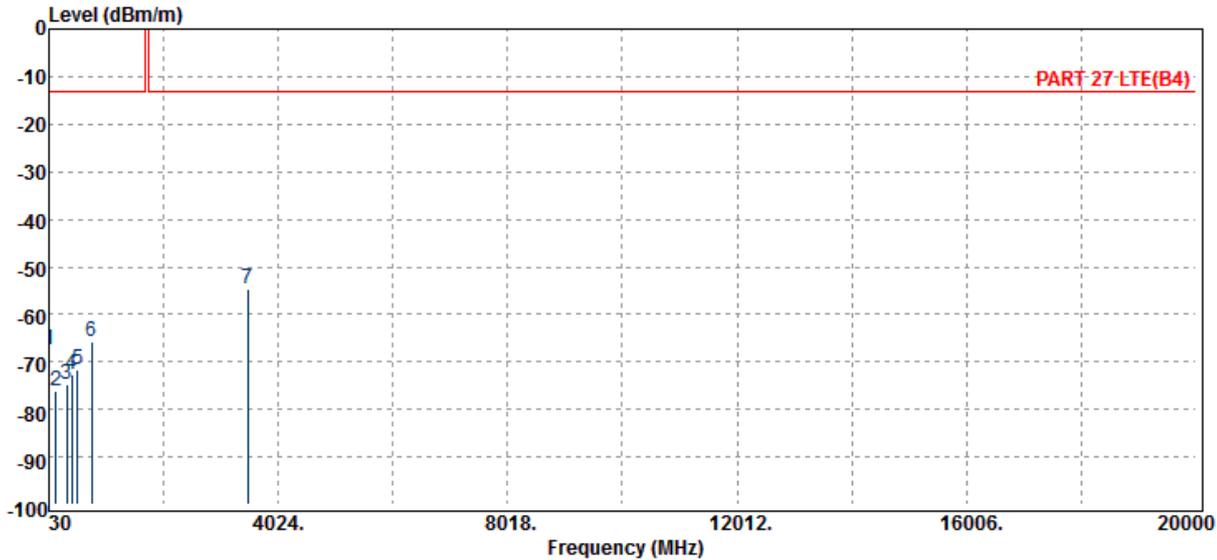
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
76.56	S	-58.15	-55.50	-1.62	-1.04	-13.00	-45.15
170.65	S	-73.17	-73.24	1.55	-1.48	-13.00	-60.17
293.84	S	-72.97	-76.86	5.65	-1.76	-13.00	-59.97
439.34	S	-72.52	-76.04	5.55	-2.03	-13.00	-59.52
526.64	S	-69.37	-72.74	5.82	-2.45	-13.00	-56.37
754.59	S	-65.72	-68.46	5.45	-2.71	-13.00	-52.72
3495.00	H	-54.19	-55.84	8.29	-6.64	-13.00	-41.19

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ARFCN	:CH 20325 16QAM BW 15 RB 1 74	Test Date	:2015-07-09
Operation Band	:LTE B4	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:1747.5 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
32.91	S	-67.56	-54.82	-11.98	-0.76	-13.00	-54.56
153.19	S	-76.07	-74.94	0.27	-1.40	-13.00	-63.07
337.49	S	-74.85	-78.81	5.88	-1.92	-13.00	-61.85
429.64	S	-72.58	-76.18	5.60	-2.00	-13.00	-59.58
524.70	S	-71.57	-74.95	5.82	-2.44	-13.00	-58.57
770.11	S	-65.61	-68.37	5.50	-2.74	-13.00	-52.61
3495.00	H	-54.52	-56.17	8.29	-6.64	-13.00	-41.52

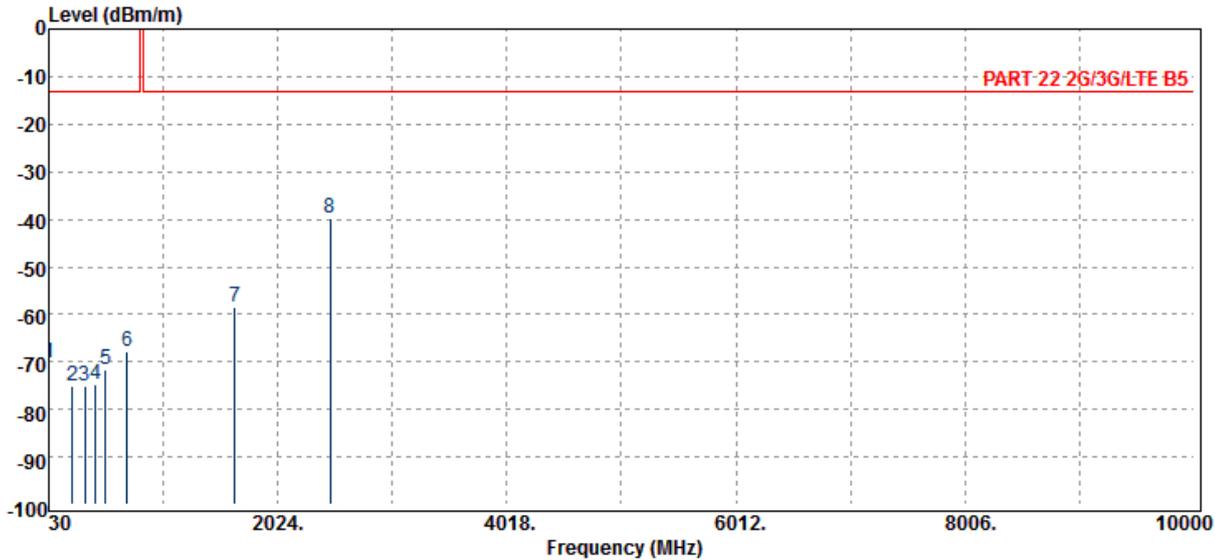
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**Radiated Spurious Emission Measurement Result: 5MHz BW LTE-Band 5(The Worst Case)**

ARFCN	:CH 20425 16QAM BW 5	Test Date	:2015-07-09
	RB 1 0		
Operation Band	:LTE B5	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:826.5 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:VERTICAL



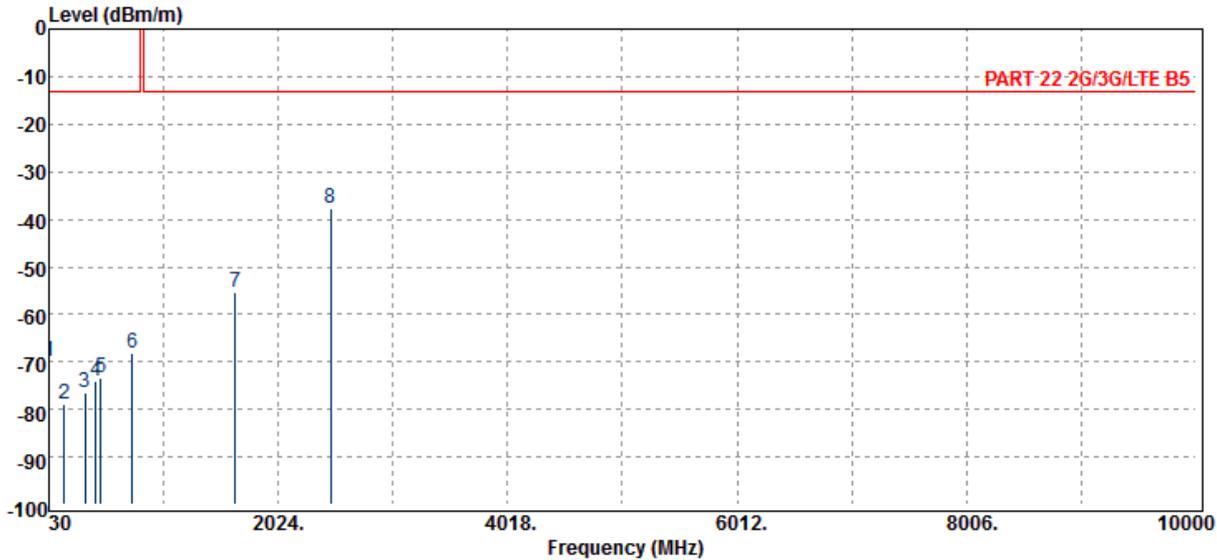
Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
31.94	S	-70.34	-55.21	-14.37	-0.75	-13.00	-57.34
236.61	S	-74.98	-76.68	3.29	-1.60	-13.00	-61.98
342.34	S	-75.16	-76.96	3.74	-1.94	-13.00	-62.16
435.46	S	-74.81	-76.21	3.42	-2.02	-13.00	-61.81
524.70	S	-71.47	-72.70	3.67	-2.44	-13.00	-58.47
711.91	S	-67.97	-68.72	3.36	-2.60	-13.00	-54.97
1651.00	H	-58.41	-57.24	3.05	-4.22	-13.00	-45.41
2476.50	H	-39.81	-38.09	3.60	-5.32	-13.00	-26.81

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ARFCN	:CH 20425 16QAM BW 5 RB 1 0	Test Date	:2015-07-09
Operation Band	:LTE B5	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:826.5 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
34.85	S	-70.03	-55.57	-13.67	-0.78	-13.00	-57.03
165.80	S	-78.87	-76.40	-1.01	-1.46	-13.00	-65.87
345.25	S	-76.34	-78.14	3.75	-1.95	-13.00	-63.34
434.49	S	-74.03	-75.44	3.43	-2.02	-13.00	-61.03
479.11	S	-73.23	-74.64	3.59	-2.18	-13.00	-60.23
754.59	S	-68.20	-68.79	3.30	-2.71	-13.00	-55.20
1651.00	H	-55.40	-54.23	3.05	-4.22	-13.00	-42.40
2476.50	H	-37.74	-36.02	3.60	-5.32	-13.00	-24.74

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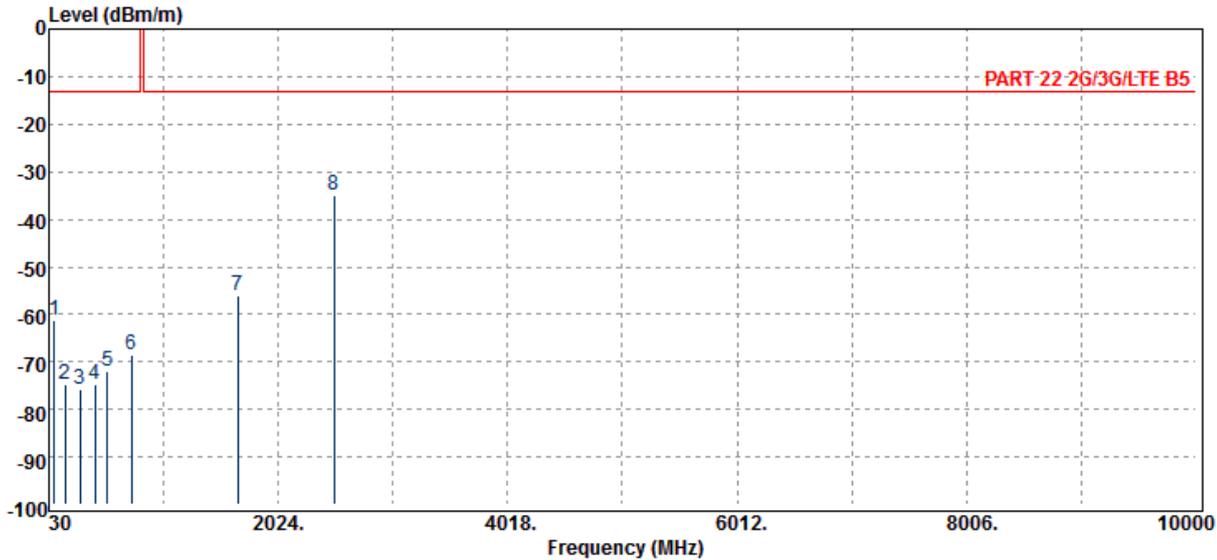
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ARFCN	:CH 20525 16QAM BW 5	Test Date	:2015-07-09
	RB 1 0		
Operation Band	:LTE B5	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:836.5 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:VERTICAL



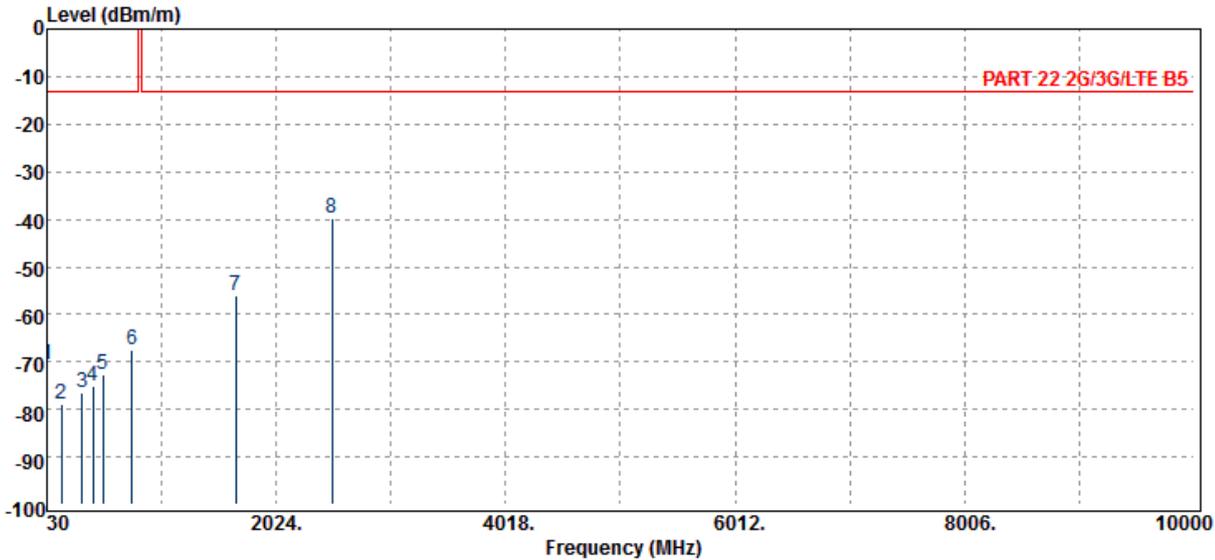
Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
76.56	S	-61.15	-56.35	-3.77	-1.04	-13.00	-48.15
173.56	S	-74.73	-73.14	-0.10	-1.49	-13.00	-61.73
299.66	S	-75.76	-77.60	3.62	-1.78	-13.00	-62.76
432.55	S	-74.71	-76.14	3.44	-2.01	-13.00	-61.71
542.16	S	-71.81	-72.90	3.61	-2.53	-13.00	-58.81
750.71	S	-68.62	-69.21	3.28	-2.70	-13.00	-55.62
1673.00	H	-55.92	-54.67	3.01	-4.26	-13.00	-42.92
2509.50	H	-34.99	-33.31	3.67	-5.35	-13.00	-21.99

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ARFCN	:CH 20525 16QAM BW 5	Test Date	:2015-07-09
	RB 1 0		
Operation Band	:LTE B5	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:836.5 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:HORIZONTAL



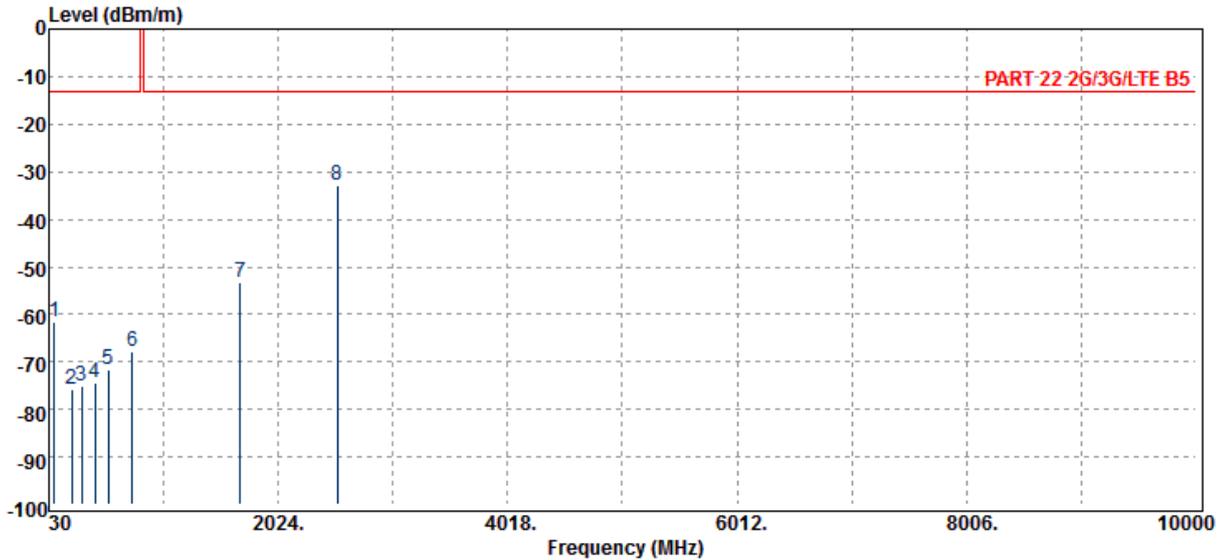
Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
34.85	S	-70.49	-56.03	-13.67	-0.78	-13.00	-57.49
153.19	S	-78.96	-75.67	-1.88	-1.40	-13.00	-65.96
338.46	S	-76.30	-78.11	3.73	-1.93	-13.00	-63.30
429.64	S	-75.24	-76.69	3.45	-2.00	-13.00	-62.24
516.94	S	-72.83	-74.14	3.70	-2.40	-13.00	-59.83
772.05	S	-67.63	-68.23	3.35	-2.75	-13.00	-54.63
1673.00	H	-55.91	-54.66	3.01	-4.26	-13.00	-42.91
2509.50	H	-39.79	-38.11	3.67	-5.35	-13.00	-26.79

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ARFCN	:CH 20625 16QAM BW 5	Test Date	:2015-07-09
	RB 1 0		
Operation Band	:LTE B5	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:846.5 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:VERTICAL



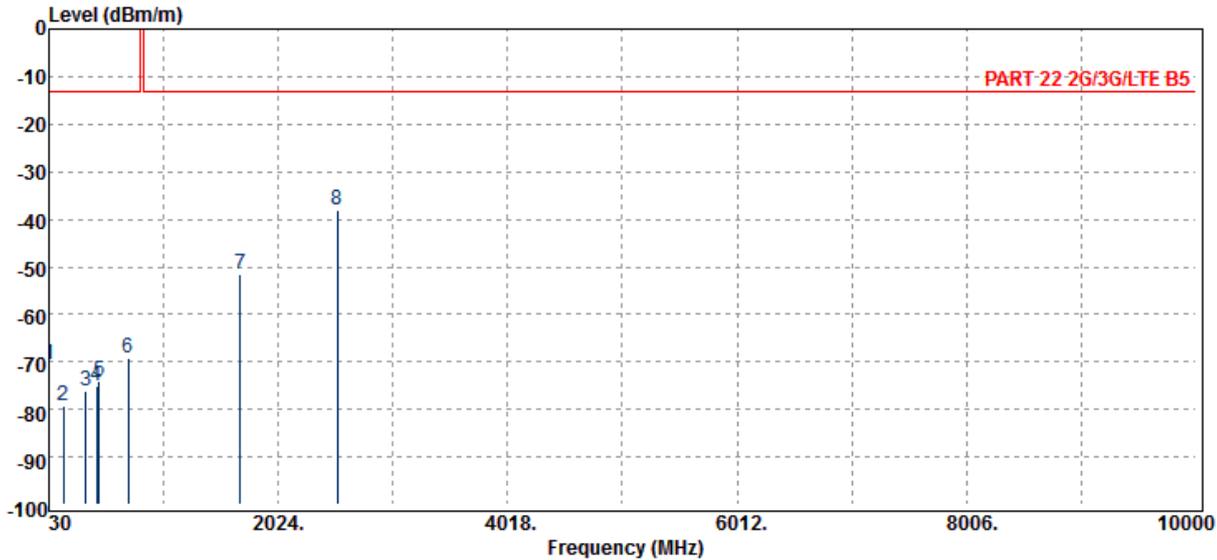
Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
76.56	S	-61.47	-56.67	-3.77	-1.04	-13.00	-48.47
231.76	S	-75.73	-77.45	3.31	-1.58	-13.00	-62.73
314.21	S	-75.11	-76.93	3.66	-1.84	-13.00	-62.11
430.61	S	-74.27	-75.71	3.45	-2.01	-13.00	-61.27
547.01	S	-71.68	-72.72	3.60	-2.56	-13.00	-58.68
757.50	S	-67.86	-68.45	3.31	-2.71	-13.00	-54.86
1693.00	H	-53.26	-51.96	2.97	-4.27	-13.00	-40.26
2539.50	H	-32.81	-31.15	3.74	-5.40	-13.00	-19.81

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ARFCN	:CH 20625 16QAM BW 5	Test Date	:2015-07-09
	RB 1 0		
Operation Band	:LTE B5	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:846.5 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
30.00	S	-70.63	-55.02	-14.88	-0.73	-13.00	-57.63
154.16	S	-79.11	-75.88	-1.82	-1.41	-13.00	-66.11
348.16	S	-76.23	-78.03	3.76	-1.96	-13.00	-63.23
442.25	S	-75.26	-76.60	3.39	-2.04	-13.00	-62.26
469.41	S	-74.08	-75.47	3.51	-2.12	-13.00	-61.08
715.79	S	-69.37	-70.11	3.35	-2.61	-13.00	-56.37
1693.00	H	-51.58	-50.28	2.97	-4.27	-13.00	-38.58
2539.50	H	-38.00	-36.34	3.74	-5.40	-13.00	-25.00

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

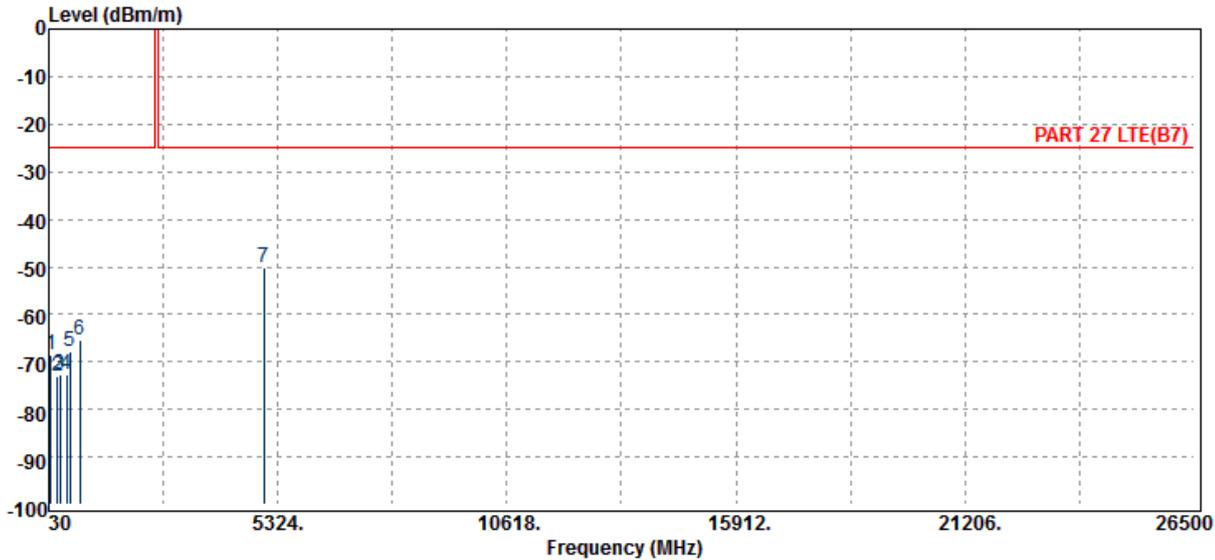
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**Radiated Spurious Emission Measurement Result: 5MHz BW LTE-Band 7(The Worst Case)**

ARFCN	:CH 20775 16QAM BW 5	Test Date	:2015-07-09
	RB 1 0		
Operation Band	:LTE B7	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:2502.5 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
78.50	S	-68.56	-66.47	-1.04	-1.05	-25.00	-43.56
235.64	S	-72.92	-76.78	5.45	-1.59	-25.00	-47.92
284.14	S	-72.59	-76.37	5.52	-1.73	-25.00	-47.59
435.46	S	-72.73	-76.28	5.57	-2.02	-25.00	-47.73
527.61	S	-67.90	-71.26	5.81	-2.46	-25.00	-42.90
757.50	S	-65.36	-68.10	5.46	-2.71	-25.00	-40.36
5005.00	H	-50.03	-51.39	9.80	-8.44	-25.00	-25.03

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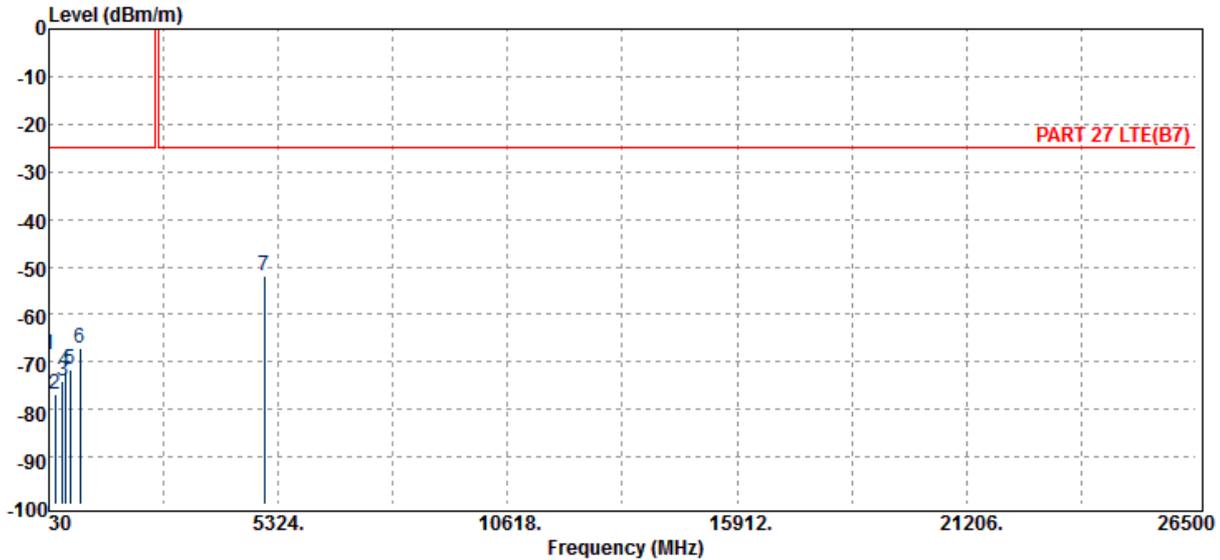
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ARFCN	:CH 20775 16QAM BW 5 RB 1 0	Test Date	:2015-07-09
Operation Band	:LTE B7	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:2502.5 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL



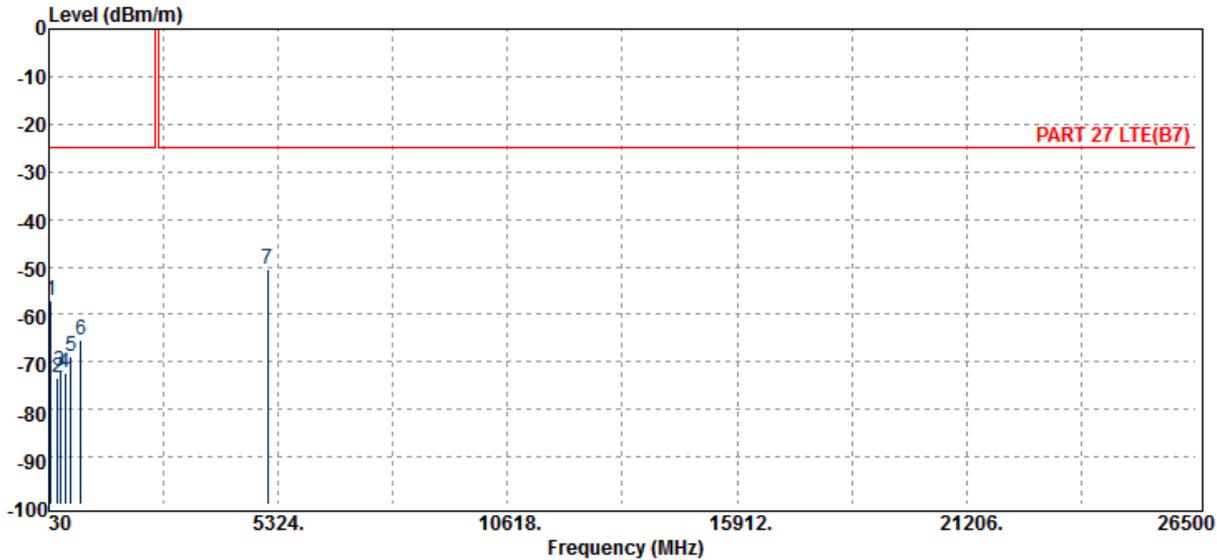
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
36.79	S	-68.55	-56.58	-11.17	-0.80	-25.00	-43.55
173.56	S	-76.82	-77.38	2.05	-1.49	-25.00	-51.82
337.49	S	-73.96	-77.92	5.88	-1.92	-25.00	-48.96
410.24	S	-71.95	-75.72	5.71	-1.94	-25.00	-46.95
522.76	S	-71.62	-75.02	5.83	-2.43	-25.00	-46.62
752.65	S	-67.22	-69.95	5.44	-2.70	-25.00	-42.22
5005.00	H	-51.79	-53.15	9.80	-8.44	-25.00	-26.79

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ARFCN	:CH 21100 16QAM BW 5 RB 1 0	Test Date	:2015-07-09
Operation Band	:LTE B7	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:2535 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL



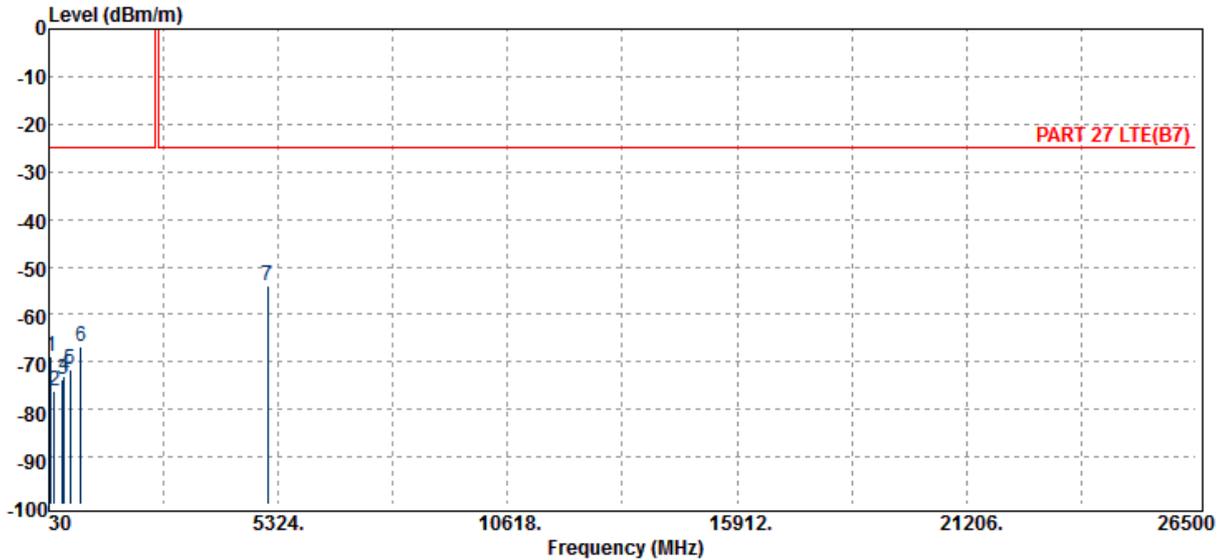
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
78.50	S	-57.16	-55.07	-1.04	-1.05	-25.00	-32.16
235.64	S	-73.44	-77.29	5.45	-1.59	-25.00	-48.44
280.26	S	-72.14	-75.89	5.48	-1.72	-25.00	-47.14
406.36	S	-72.19	-75.98	5.73	-1.94	-25.00	-47.19
544.10	S	-68.74	-71.96	5.76	-2.54	-25.00	-43.74
759.44	S	-65.47	-68.22	5.46	-2.72	-25.00	-40.47
5070.00	H	-50.67	-52.05	9.84	-8.46	-25.00	-25.67

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ARFCN	:CH 21100 16QAM BW 5 RB 1 0	Test Date	:2015-07-09
Operation Band	:LTE B7	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:2535 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL



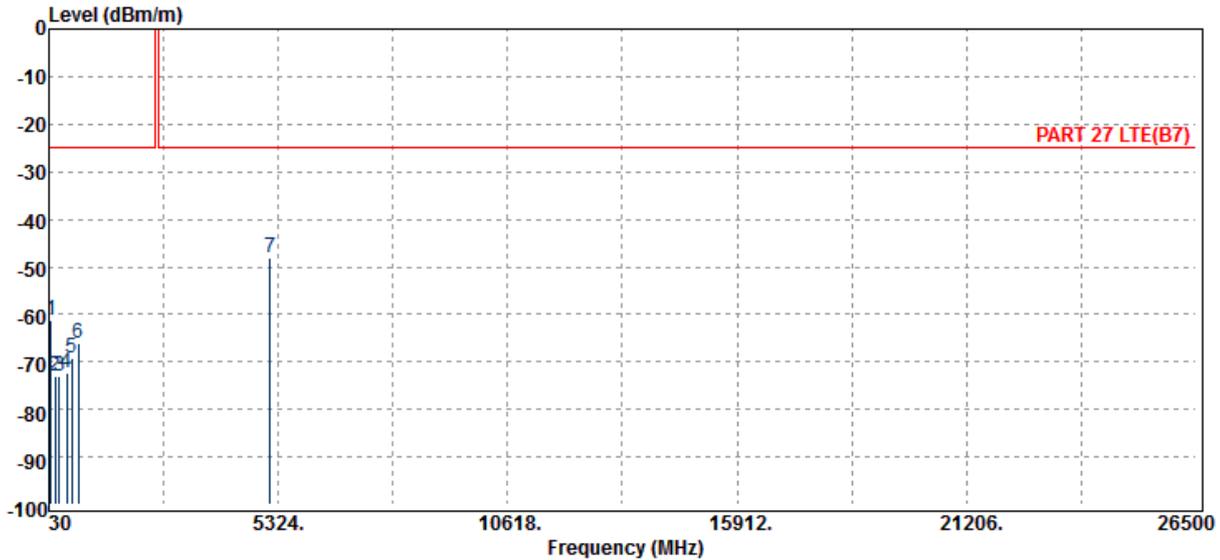
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
73.65	S	-69.03	-65.50	-2.50	-1.03	-25.00	-44.03
159.01	S	-76.27	-75.48	0.65	-1.43	-25.00	-51.27
348.16	S	-73.67	-77.62	5.91	-1.96	-25.00	-48.67
382.11	S	-72.96	-76.83	5.82	-1.95	-25.00	-47.96
510.15	S	-71.48	-74.99	5.87	-2.36	-25.00	-46.48
765.26	S	-66.78	-69.53	5.48	-2.73	-25.00	-41.78
5070.00	H	-54.10	-55.49	9.84	-8.46	-25.00	-29.10

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ARFCN	:CH 21425 16QAM BW 5 RB 1 0	Test Date	:2015-07-09
Operation Band	:LTE B7	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:2567.5 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL



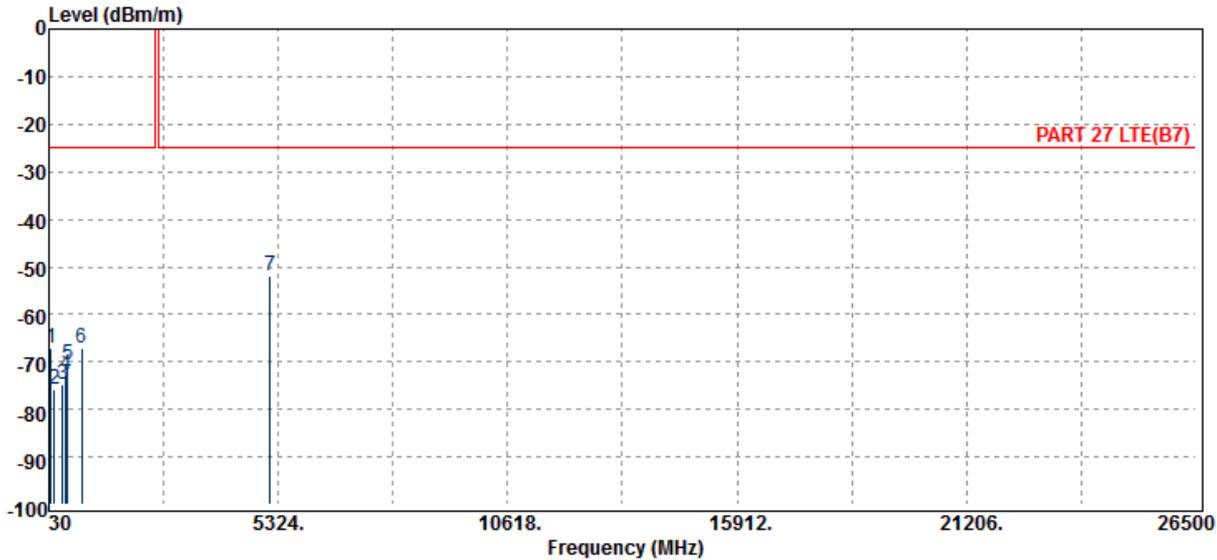
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
73.65	S	-61.31	-57.78	-2.50	-1.03	-25.00	-36.31
180.35	S	-73.03	-74.73	3.20	-1.50	-25.00	-48.03
272.50	S	-73.18	-77.16	5.69	-1.70	-25.00	-48.18
450.01	S	-72.34	-75.77	5.49	-2.07	-25.00	-47.34
548.95	S	-69.10	-72.27	5.74	-2.57	-25.00	-44.10
711.91	S	-66.07	-68.97	5.51	-2.60	-25.00	-41.07
5135.00	H	-47.94	-49.34	9.88	-8.48	-25.00	-22.94

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ARFCN	:CH 21425 16QAM BW 5 RB 1 0	Test Date	:2015-07-09
Operation Band	:LTE B7	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:2567.5 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
73.65	S	-67.07	-63.54	-2.50	-1.03	-25.00	-42.07
154.16	S	-75.79	-74.72	0.33	-1.41	-25.00	-50.79
342.34	S	-74.71	-78.66	5.89	-1.94	-25.00	-49.71
420.91	S	-72.62	-76.30	5.65	-1.98	-25.00	-47.62
464.56	S	-70.74	-74.25	5.62	-2.11	-25.00	-45.74
781.75	S	-67.04	-69.79	5.53	-2.79	-25.00	-42.04
5135.00	H	-51.89	-53.29	9.88	-8.48	-25.00	-26.89

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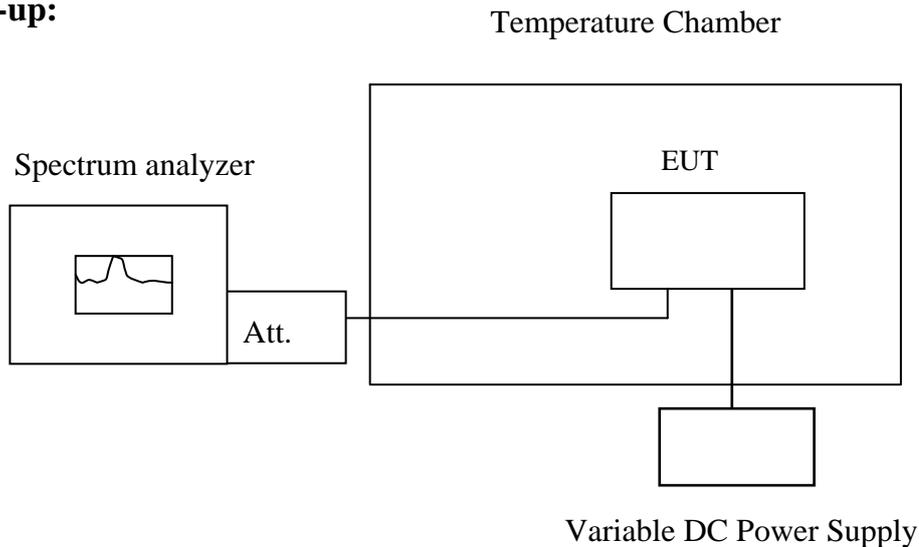
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## 11. FREQUENCY STABILITY MEASUREMENT

### 11.1. Standard Applicable:

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

### 11.2. Test Set-up:



**Note:** Measurement setup for testing on Antenna connector

### 11.3. Measurement Procedure:

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

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

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

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**11.4. Measurement Equipment Used:**

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
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**

Reference Frequency: GPRS 850 Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
4.4	20	836599996	0	2091
3.8	20	836599996	0	2091
3.2	20	836599993	-3	2091
2.9 (End point)	20	836599999	3	2091

**FREQUENCY ERROR vs. TEMPERATURE**

Reference Frequency: GPRS 850 Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
3.8	50	836599993	-3	2091
3.8	40	836599991	-5	2091
3.8	30	836599989	-7	2091
3.8	20	836599996	0	2091
3.8	10	836599994	-2	2091
3.8	0	836600000	4	2091
3.8	-10	836599995	-1	2091
3.8	-20	836599992	-4	2091
3.8	-30	836599994	-2	2091

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**FREQUENCY ERROR vs. VOLTAGE**

Reference Frequency: GPRS 1900 Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
4.4	20	1879999995	-1	4700
3.8	20	1879999996	0	4700
3.2	20	1879999994	-2	4700
2.9 (End point)	20	1880000002	6	4700

**FREQUENCY ERROR vs. TEMPERATURE**

Reference Frequency: GPRS 1900 Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
3.8	50	1879999995	-1	4700
3.8	40	1879999997	1	4700
3.8	30	1879999993	-3	4700
3.8	20	1879999996	0	4700
3.8	10	1879999995	-1	4700
3.8	0	1879999998	2	4700
3.8	-10	1880000000	4	4700
3.8	-20	1880000001	5	4700
3.8	-30	1879999999	3	4700

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**FREQUENCY ERROR vs. VOLTAGE**

Reference Frequency: WCDMA II Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
4.4	20	1879999999	-2	4700
3.8	20	1880000001	0	4700
3.2	20	1879999997	-4	4700
2.9 (End point)	20	1879999999	-2	4700

**FREQUENCY ERROR vs. TEMPERATURE**

Reference Frequency: WCDMA II Mid Channel 1880				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
3.8	50	1880000001	0	4700
3.8	40	1879999998	-3	4700
3.8	30	1880000000	-1	4700
3.8	20	1880000001	0	4700
3.8	10	1879999998	-3	4700
3.8	0	1879999997	-4	4700
3.8	-10	1880000001	0	4700
3.8	-20	1879999995	-6	4700
3.8	-30	1880000000	-1	4700

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**FREQUENCY ERROR vs. VOLTAGE**

Reference Frequency: WCDMA V Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
4.4	20	836600000	1	2091
3.8	20	836599999	0	2091
3.2	20	836600000	1	2091
2.9 (End Point)	20	836599997	-2	2091

**FREQUENCY ERROR vs. TEMPERATURE**

Reference Frequency: WCDMA V Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
3.8	50	836599999	0	2091
3.8	40	836600000	1	2091
3.8	30	836600002	3	2091
3.8	20	836599999	0	2091
3.8	10	836599997	-2	2091
3.8	0	836600000	1	2091
3.8	-10	836600001	2	2091
3.8	-20	836599997	-2	2091
3.8	-30	836599998	-1	2091

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**FREQUENCY ERROR vs. VOLTAGE**

Reference Frequency:		LTE B2 Mid Channel	1880	MHz	10M QPSK CH 18900
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
4.37	25	1879.999992	-2.80	4700	
3.8	25	1879.999995	0.00	4700	
3.23	25	1879.999996	0.90	4700	
3.16 (End Point)	25	1879.999992	-2.50	4700	

**FREQUENCY ERROR vs. TEMPERATURE**

Reference Frequency:		LTE B2 Mid Channel	1880	MHz	10M QPSK CH 18900
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
3.8	-30	1879.999993	-1.40	4700	
3.8	-20	1879.999993	-1.10	4700	
3.8	-10	1879.999994	0.00	4700	
3.8	0	1879.999994	-0.60	4700	
3.8	10	1879.999995	1.10	4700	
3.8	20	1879.999994	0.00	4700	
3.8	30	1879.999996	2.00	4700	
3.8	40	1879.999995	0.30	4700	
3.8	50	1879.999994	-0.30	4700	

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**FREQUENCY ERROR vs. VOLTAGE**

Reference Frequency:		LTE B4 Mid Channel	1732.5	MHz	10M QPSK CH 20175
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
4.370	25	1732.499993	-2.60	4331	
3.800	25	1732.499996	0.00	4331	
3.230	25	1732.499994	-1.90	4331	
3.20 (End Point)	25	1732.499995	-0.50	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	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
3.8	-30	1732.499994	-1.40	4331	
3.8	-20	1732.499994	-1.10	4331	
3.8	-10	1732.499994	-1.00	4331	
3.8	0	1732.499995	-0.20	4331	
3.8	10	1732.499995	-0.60	4331	
3.8	20	1732.499995	0.00	4331	
3.8	30	1732.499996	0.50	4331	
3.8	40	1732.499996	0.70	4331	
3.8	50	1732.499997	1.40	4331	

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**FREQUENCY ERROR vs. VOLTAGE**

Reference Frequency:		LTE B5 Mid Channel	836.5	MHz	10M QPSK CH 20525
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
4.37	25	836.500005	1.70	2091	
3.8	25	836.500003	0.00	2091	
3.23	25	836.500003	0.40	2091	
3.22 (End Point)	25	836.500004	1.10	2091	

**FREQUENCY ERROR vs. TEMPERATURE**

Reference Frequency:		LTE B5 Mid Channel	836.5	MHz	10M QPSK CH 20525
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
3.8	-30	836.500006	2.40	2091	
3.8	-20	836.500006	2.80	2091	
3.8	-10	836.500005	2.00	2091	
3.8	0	836.500005	1.60	2091	
3.8	10	836.500004	0.50	2091	
3.8	20	836.500003	0.00	2091	
3.8	30	836.500004	0.60	2091	
3.8	40	836.500005	1.80	2091	
3.8	50	836.500006	2.40	2091	

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**FREQUENCY ERROR vs. VOLTAGE**

Reference Frequency:		LTE B7 Mid Channel	2535.0	MHz	10M QPSK CH
					21100
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ( )	(MHz)			
4.37	25	2535.000010	3.30	6338	
3.8	25	2535.000006	0.00	6338	
3.23	25	2535.000007	0.30	6338	
3.15 (End Point)	25	2535.000007	0.70	6338	

**FREQUENCY ERROR vs. TEMPERATURE**

Reference Frequency:		LTE B7 Mid Channel	2535.0	MHz	10M QPSK CH	21100
Limit: +/- 2.5 ppm						
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)		
Vdc	Temperature ( )	(MHz)				
3.8	-30	2535.000011	4.40	6338		
3.8	-20	2535.000010	2.70	6338		
3.8	-10	2535.000009	1.90	6338		
3.8	0	2535.000008	1.40	6338		
3.8	10	2535.000008	0.70	6338		
3.8	20	2535.000007	0.00	6338		
3.8	30	2535.000007	-0.40	6338		
3.8	40	2535.000007	-0.10	6338		
3.8	50	2535.000007	0.40	6338		

**Note: The battery is rated 3.8V dc.**

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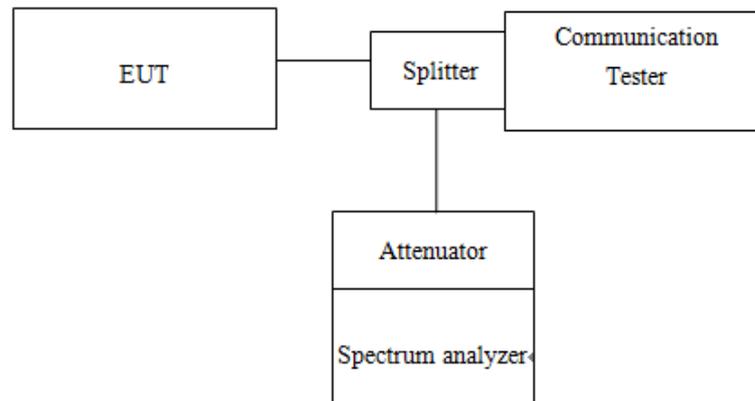
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## 12. PEAK TO AVERAGE RATIO

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

### 12.4. Measurement Equipment Used

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

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## 12.5. Measurement Result

### Tabular Results:

Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		
		GSM	GPRS	EDGE
824.20	128	<b>9.81</b>	9.88	12.53
836.60	190	9.53	<b>10.47</b>	12.40
848.80	251	9.69	9.74	<b>12.55</b>

Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		
		GSM	GPRS	EDGE
1850.20	512	9.75	<b>9.72</b>	12.90
1880.00	661	<b>8.80</b>	9.53	12.32
1909.80	810	9.37	9.47	<b>12.95</b>

Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA II	HSDPA II	HSUPA II
1850.20	9262	2.74	3.75	3.83
1880.00	9400	<b>2.84</b>	<b>3.93</b>	<b>4.00</b>
1909.80	9538	2.68	3.78	3.85

Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA V	HSDPA V	HSUPA V
826.40	4132	3.01	3.58	3.80
836.60	4183	<b>3.01</b>	3.70	3.63
846.60	4233	3.01	<b>3.86</b>	<b>3.87</b>

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LTE BAND 2							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
1850.7	18607	5.81	13	1851.5	18615	5.63	13
1880.0	18900	<b>6.50</b>	13	1880.0	18900	<b>6.25</b>	13
1909.3	19193	5.35	13	1908.5	19185	5.44	13

LTE BAND 2							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
1852.5	18625	6.09	13	1855.0	18650	6.11	13
1880.0	18900	<b>6.55</b>	13	1880.0	18900	<b>6.44</b>	13
1907.5	19175	6.04	13	1905.0	19150	6.13	13

LTE BAND 2							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
1857.5	18675	6.64	13	1860.0	18700	6.93	13
1880.0	18900	<b>6.75</b>	13	1880.0	18900	<b>7.11</b>	13
1902.5	19125	6.71	13	1900.0	19100	7.02	13

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LTE BAND 4							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
1710.7	19957	5.56	13	1711.5	19965	5.47	13
1732.5	20175	<b>5.83</b>	13	1732.5	20175	<b>5.79</b>	13
1754.3	20393	5.21	13	1753.5	20385	5.19	13

LTE BAND 4							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
1712.5	19957	5.75	13	1715.0	20000	5.99	13
1732.5	20175	<b>6.04</b>	13	1732.5	20175	<b>6.06</b>	13
1752.5	20375	5.57	13	1750.0	20350	5.81	13

LTE BAND 4							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
1717.5	20025	<b>6.67</b>	13	1720.0	20050	<b>7.07</b>	13
1732.5	20175	6.63	13	1732.5	20175	6.99	13
1747.5	20325	6.57	13	1745.0	20300	6.95	13

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LTE BAND 5							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
824.7	20407	6.61	13	825.5	20415	6.31	13
836.5	20525	<b>6.89</b>	13	836.5	20525	<b>6.65</b>	13
848.3	20643	6.64	13	847.5	20635	6.44	13

LTE BAND 5							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
826.5	20425	6.56	13	2505.0	20800	6.51	13
836.5	20525	<b>6.78</b>	13	2535.0	21100	<b>6.66</b>	13
846.5	20625	6.52	13	2565.0	21400	6.53	13

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LTE BAND 7							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
2502.5	20775	6.40	13	2505.0	20800	6.42	13
2535.0	21100	<b>6.48</b>	13	2535.0	21100	<b>6.44</b>	13
2567.5	21425	6.06	13	2565.0	21400	5.99	13

LTE BAND 7							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
2507.5	20425	<b>6.67</b>	13	2510.0	20850	<b>7.11</b>	13
2535.0	20525	6.62	13	2535.0	21100	7.04	13
2562.5	20625	6.63	13	2560.0	21350	6.97	13

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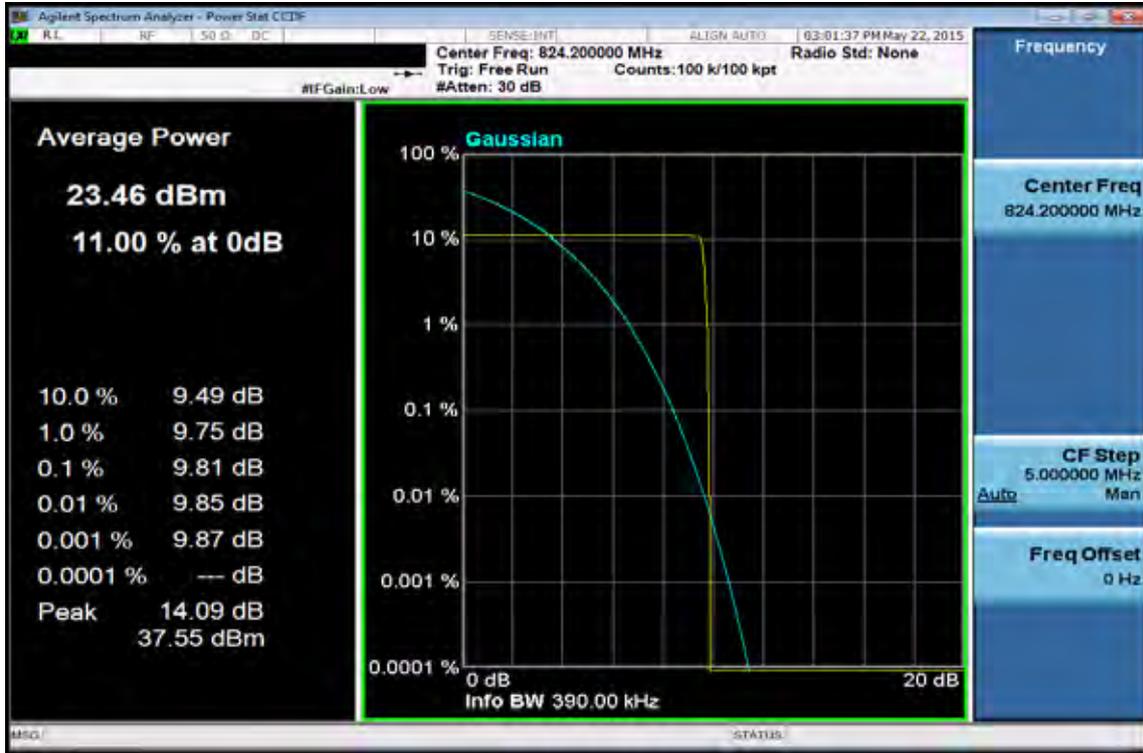
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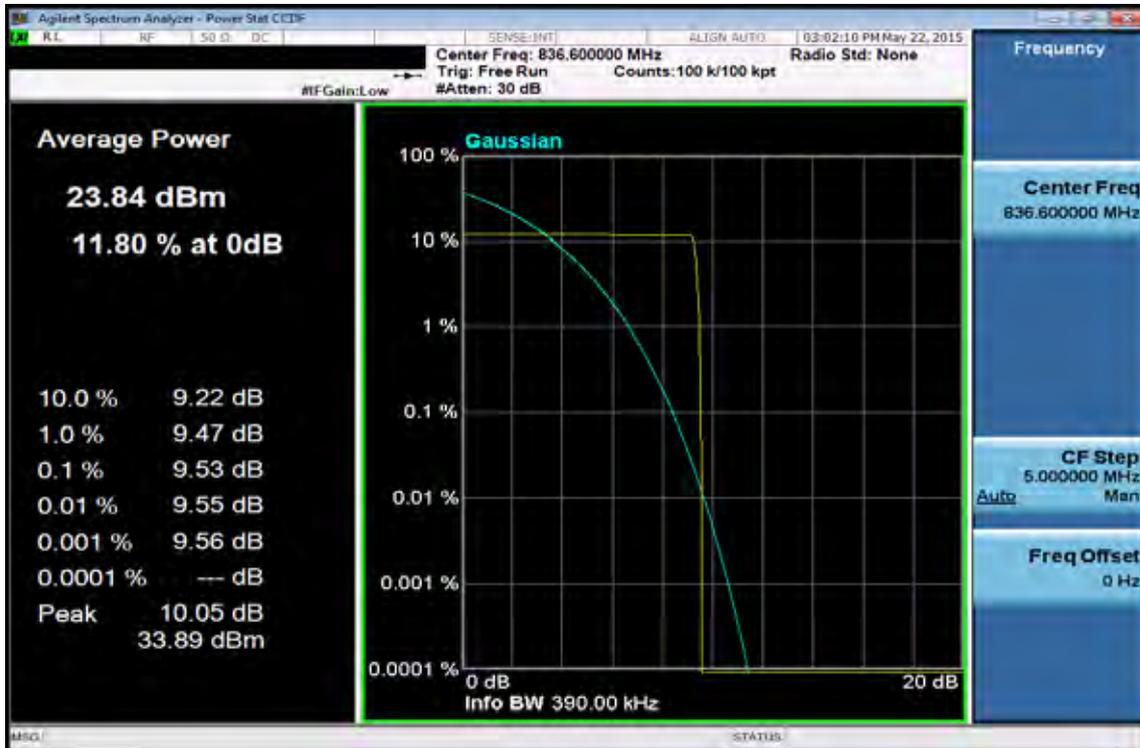
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Measurement Results:

GSM 850 Channel Low



GSM 850 Channel Mid



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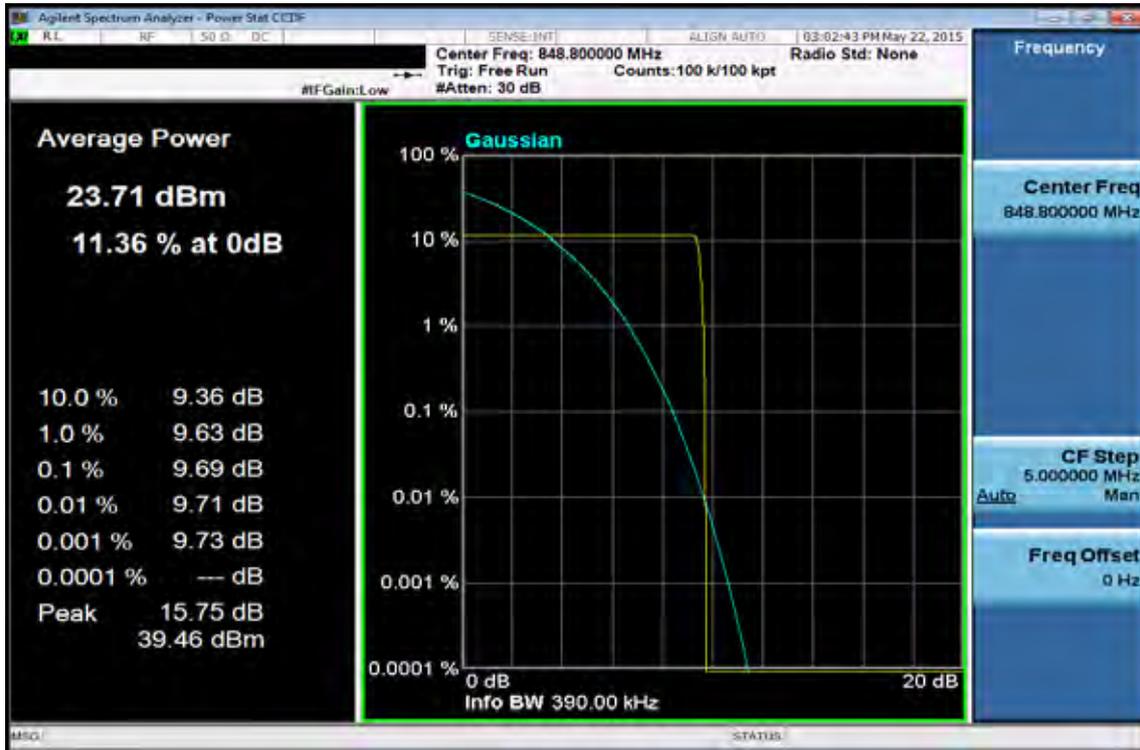
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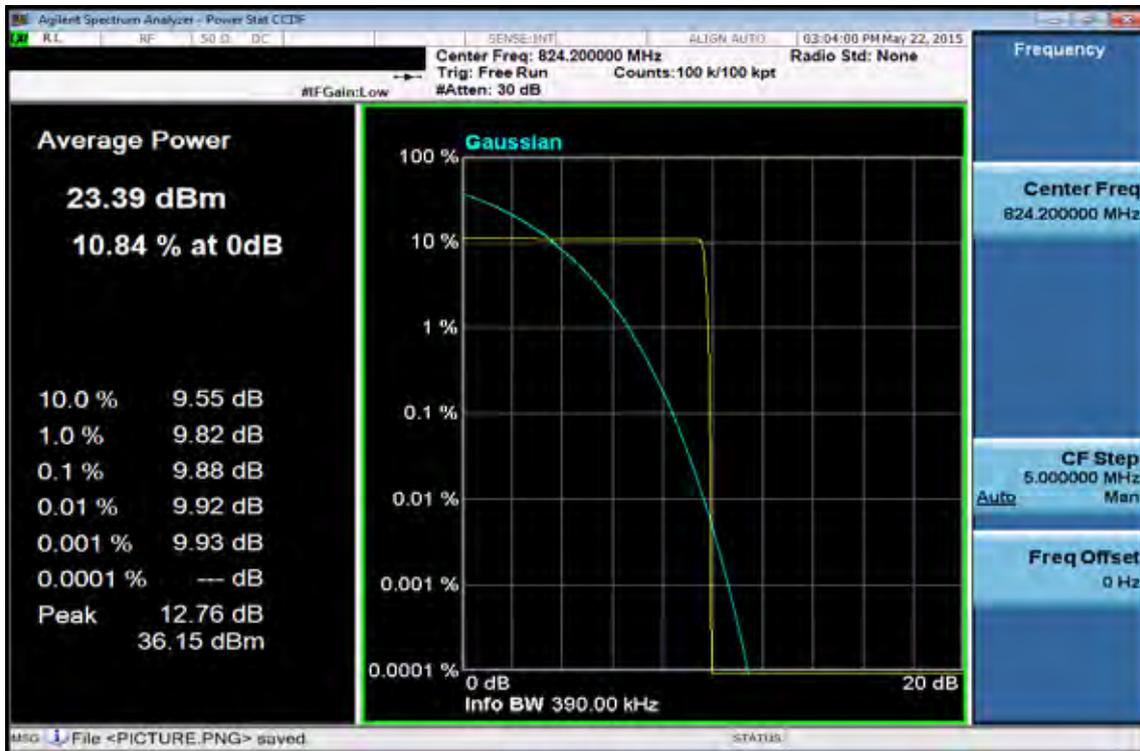
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### GSM 850 Channel High



### GSM 1900 Channel Low



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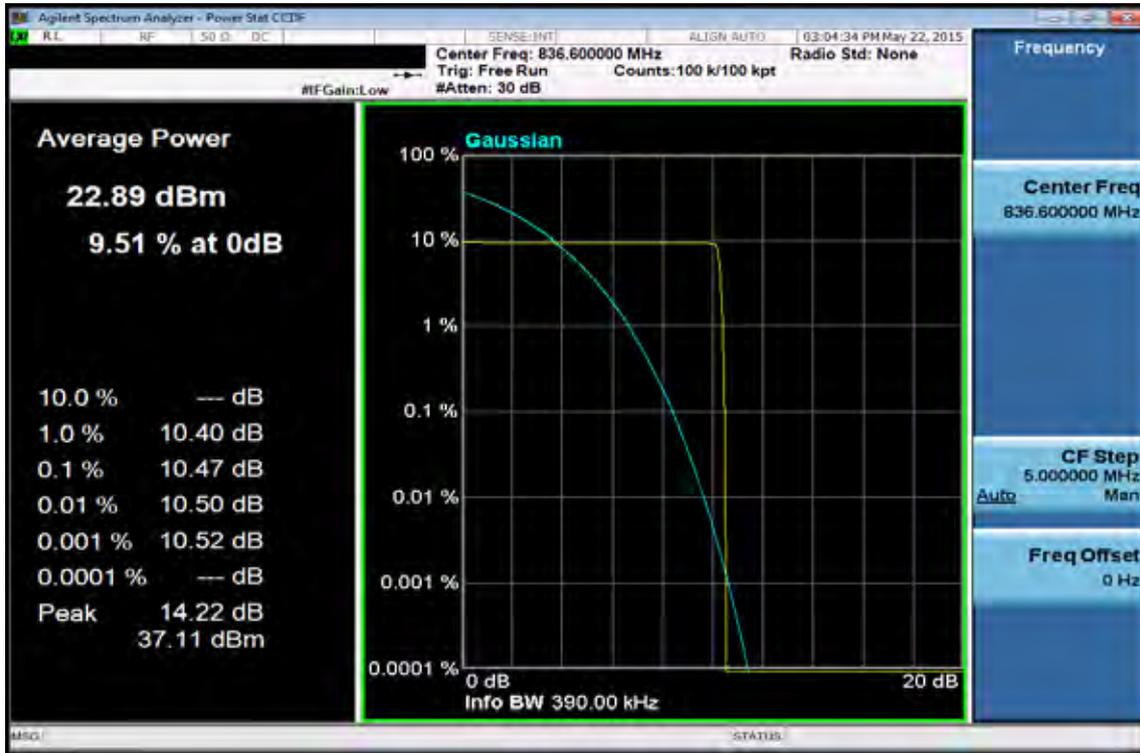
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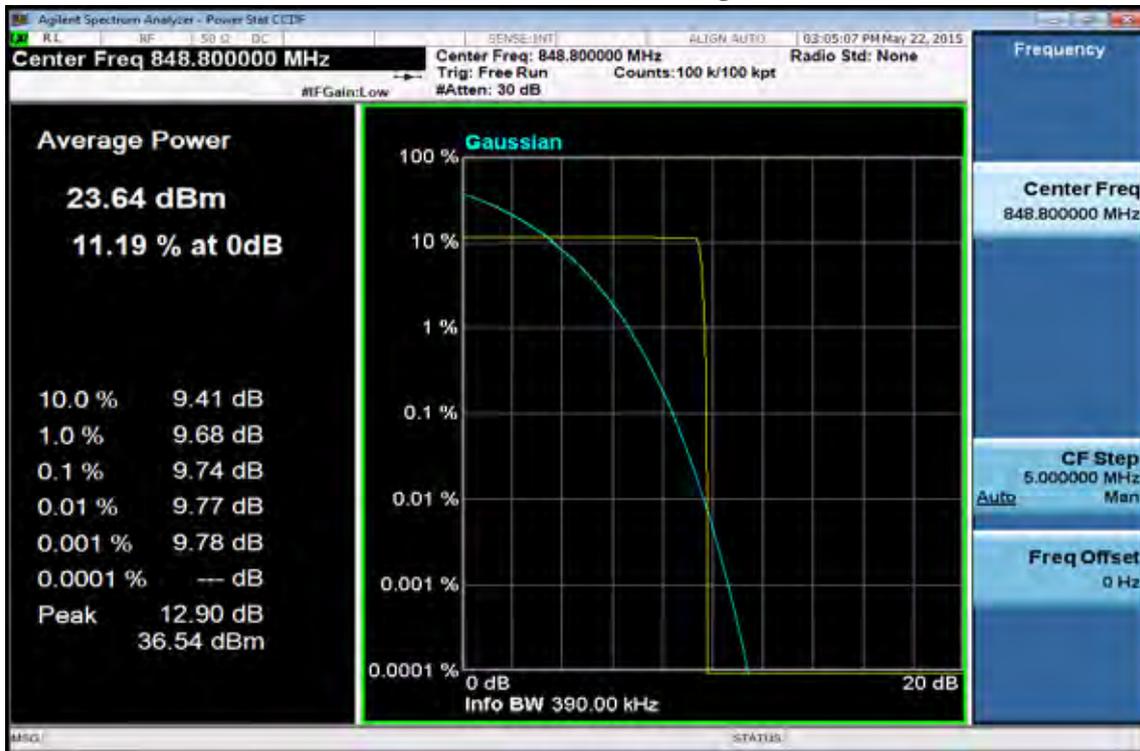
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**GSM 1900 Channel Mid**



**GSM 1900 Channel High**



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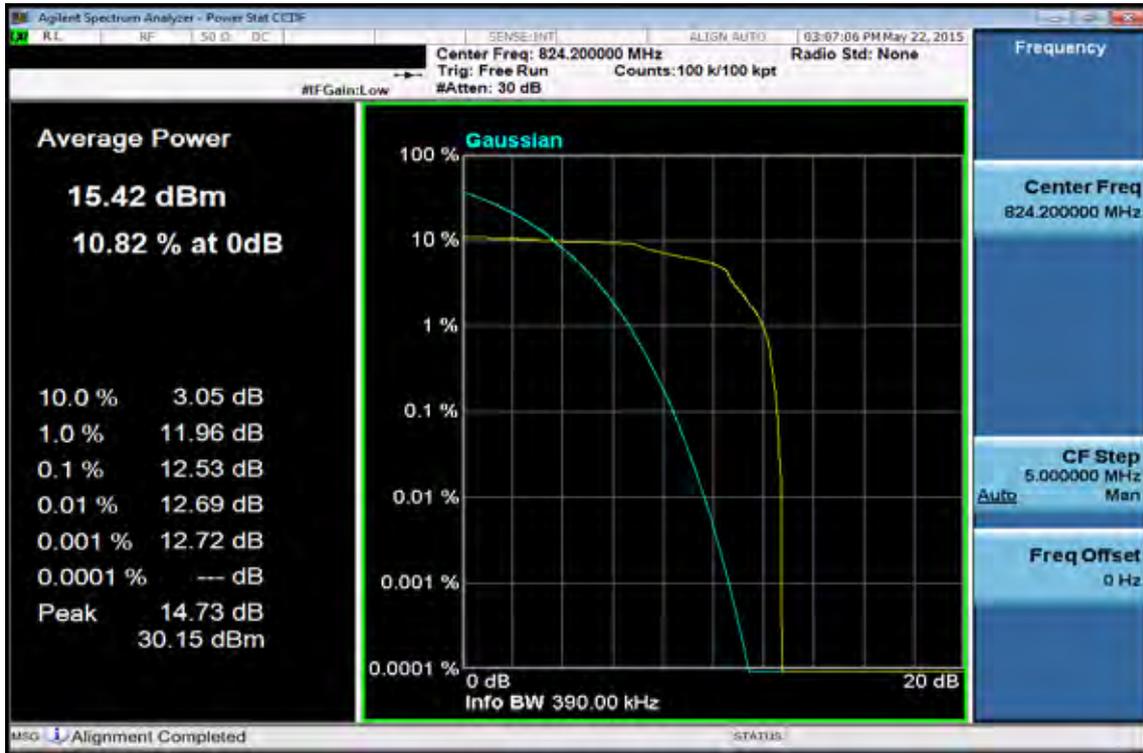
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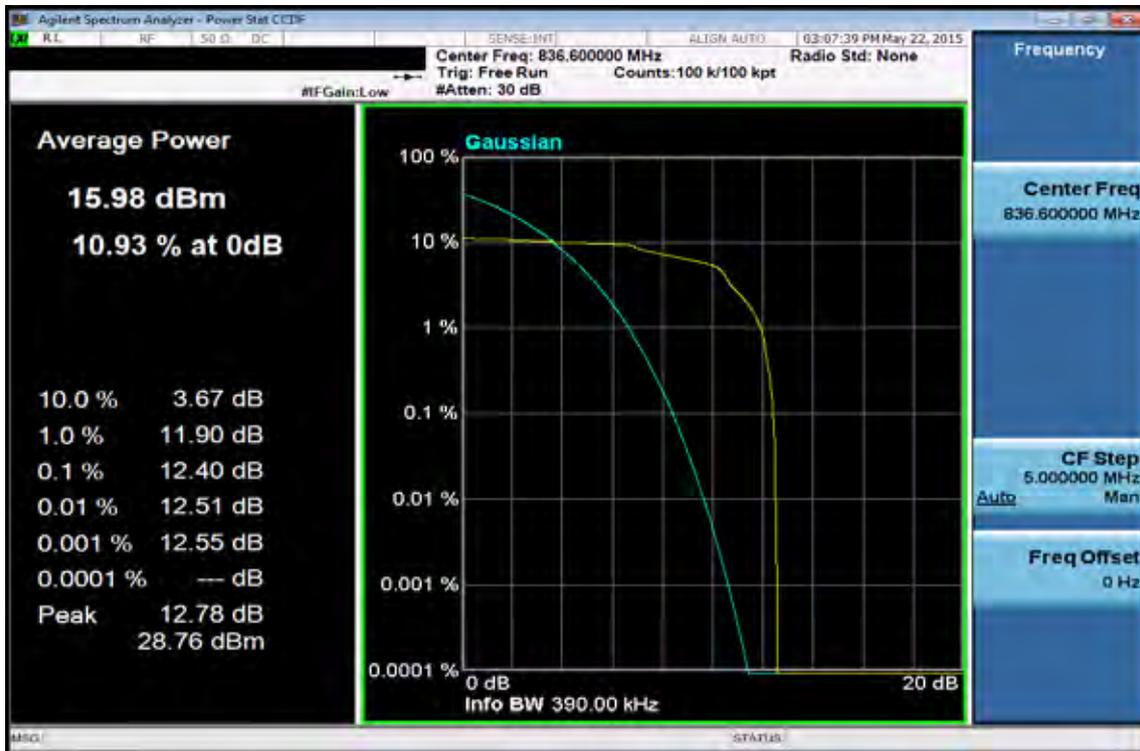
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GPRS 850 Channel Low



GPRS 850 Channel Mid



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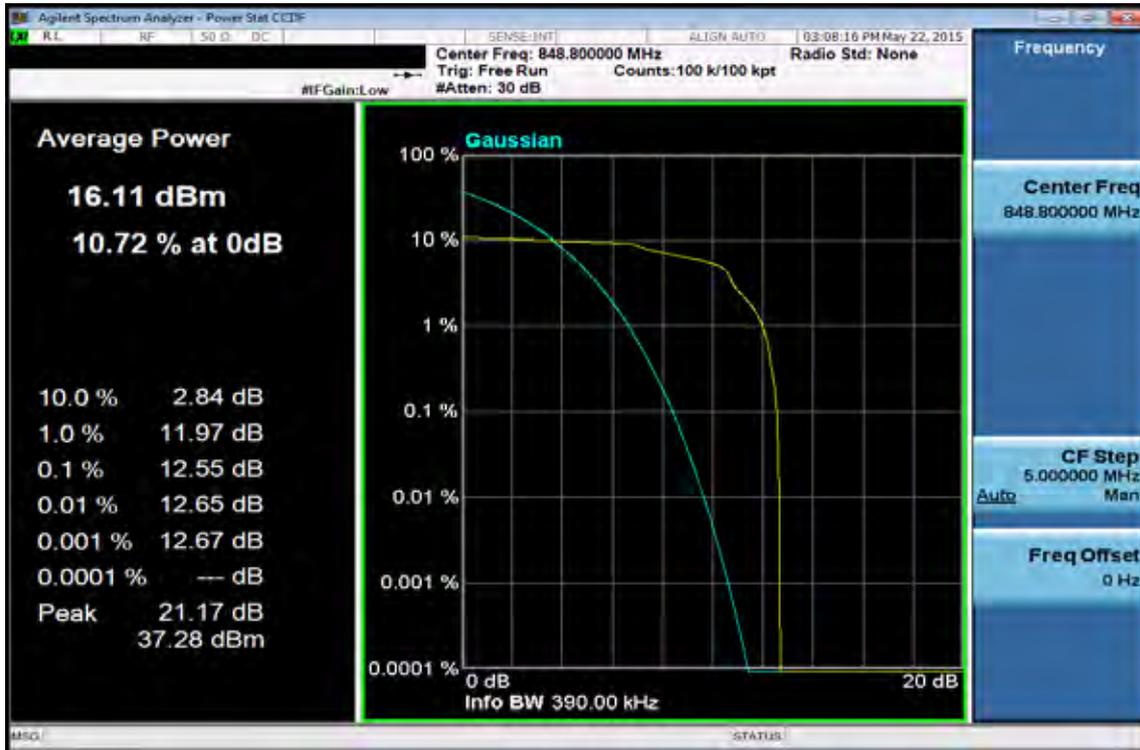
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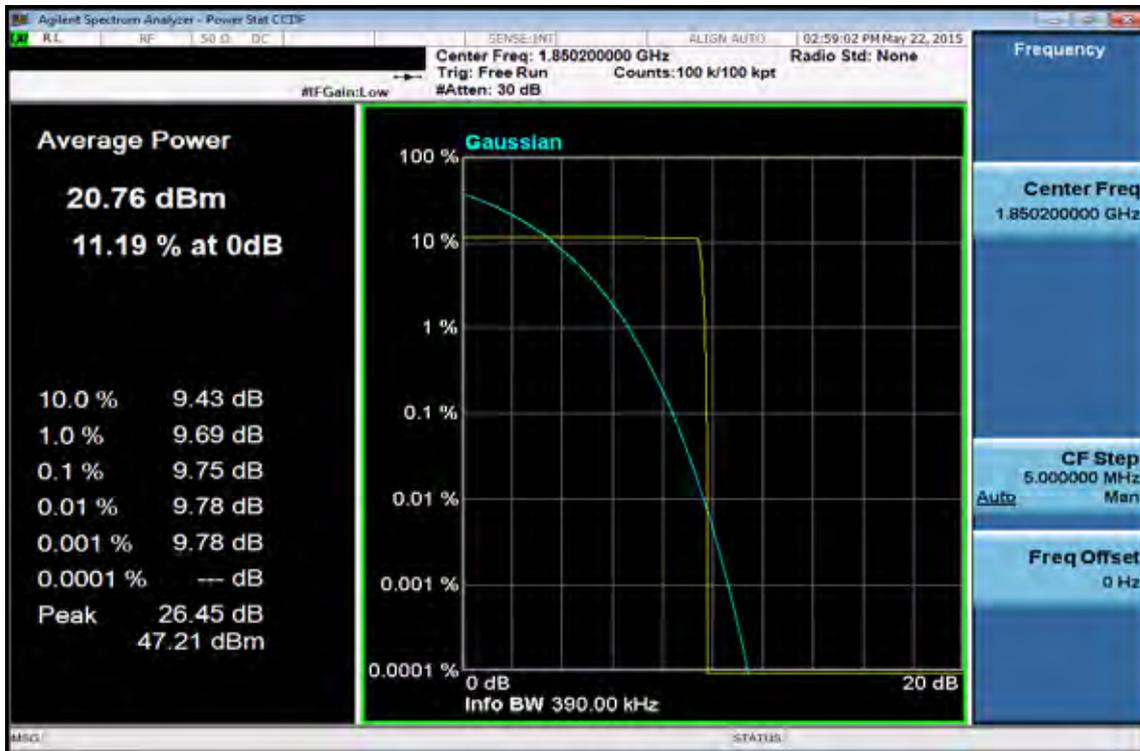
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### GPRS 850 Channel High



### GPRS 1900 Channel Low



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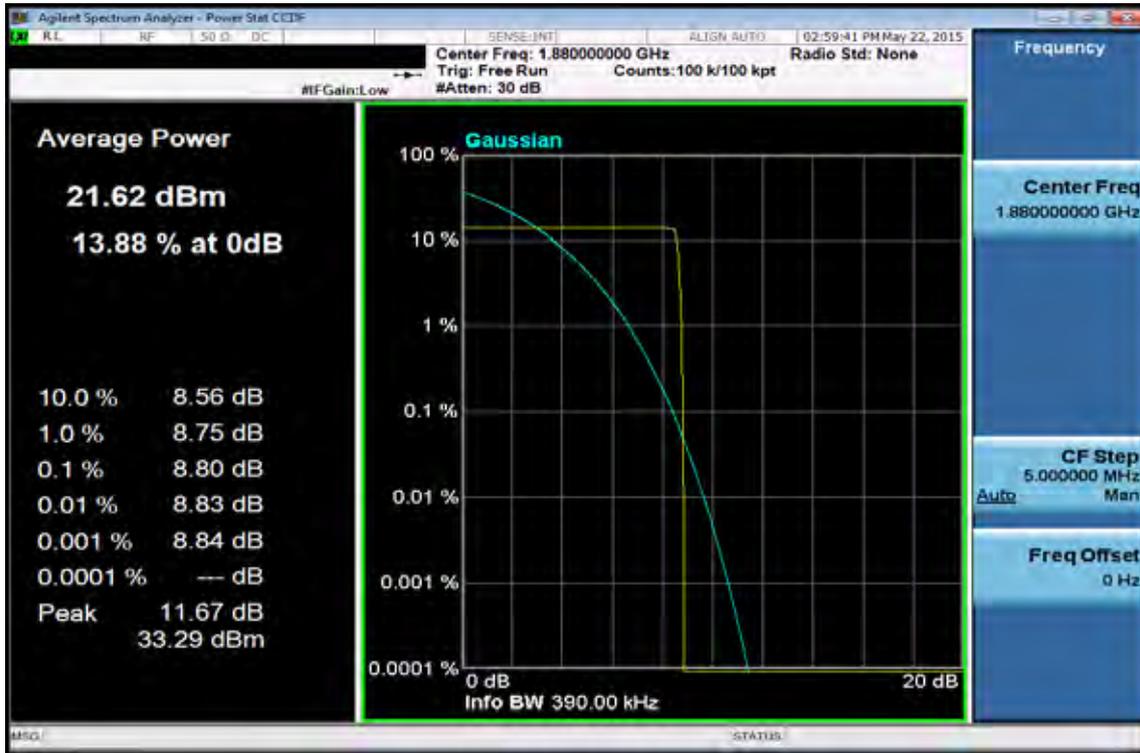
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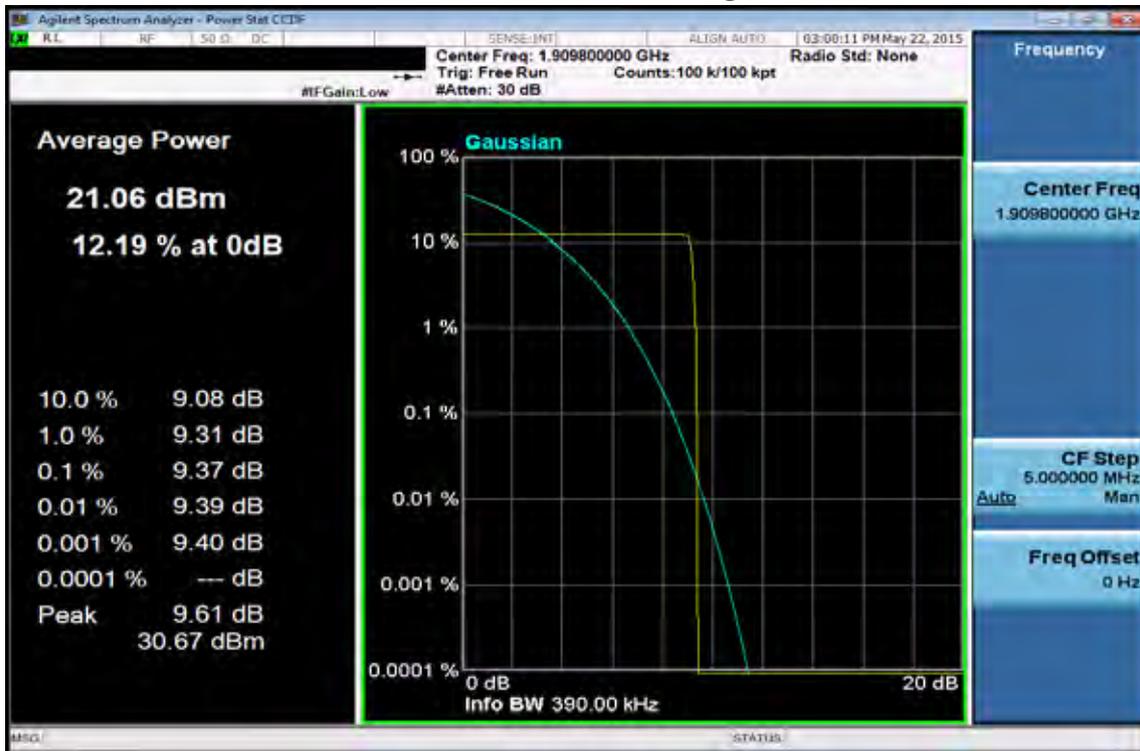
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### GPRS 1900 Channel Mid



### GPRS 1900 Channel High



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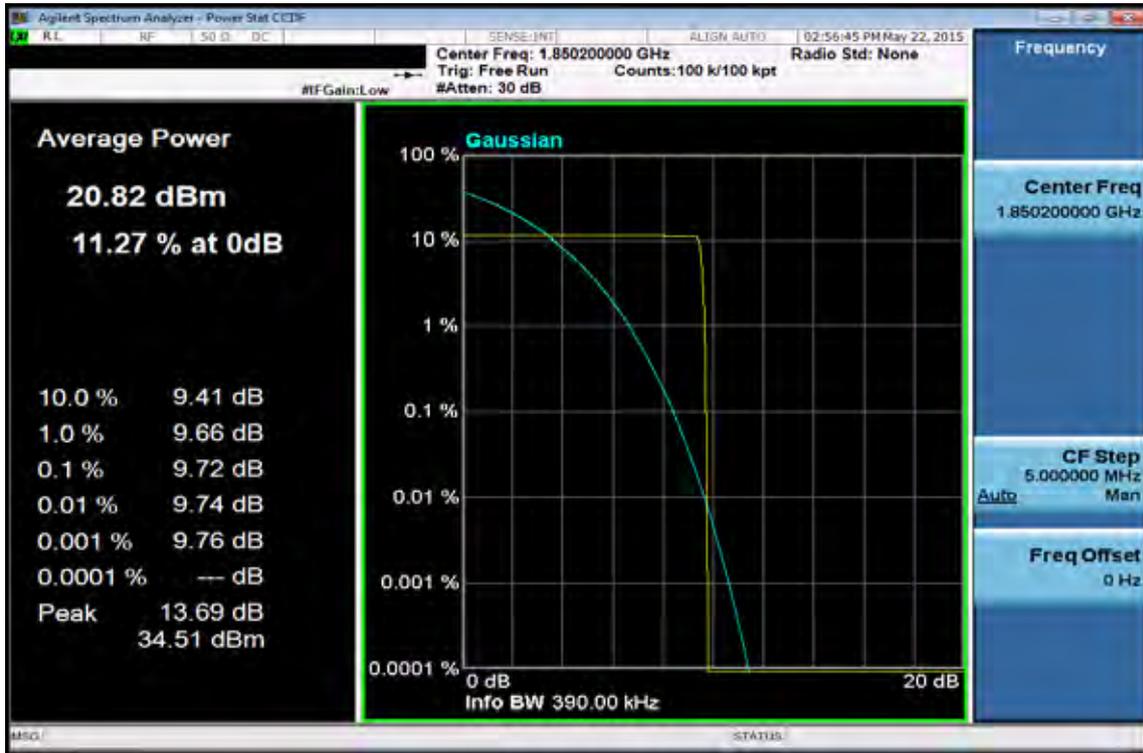
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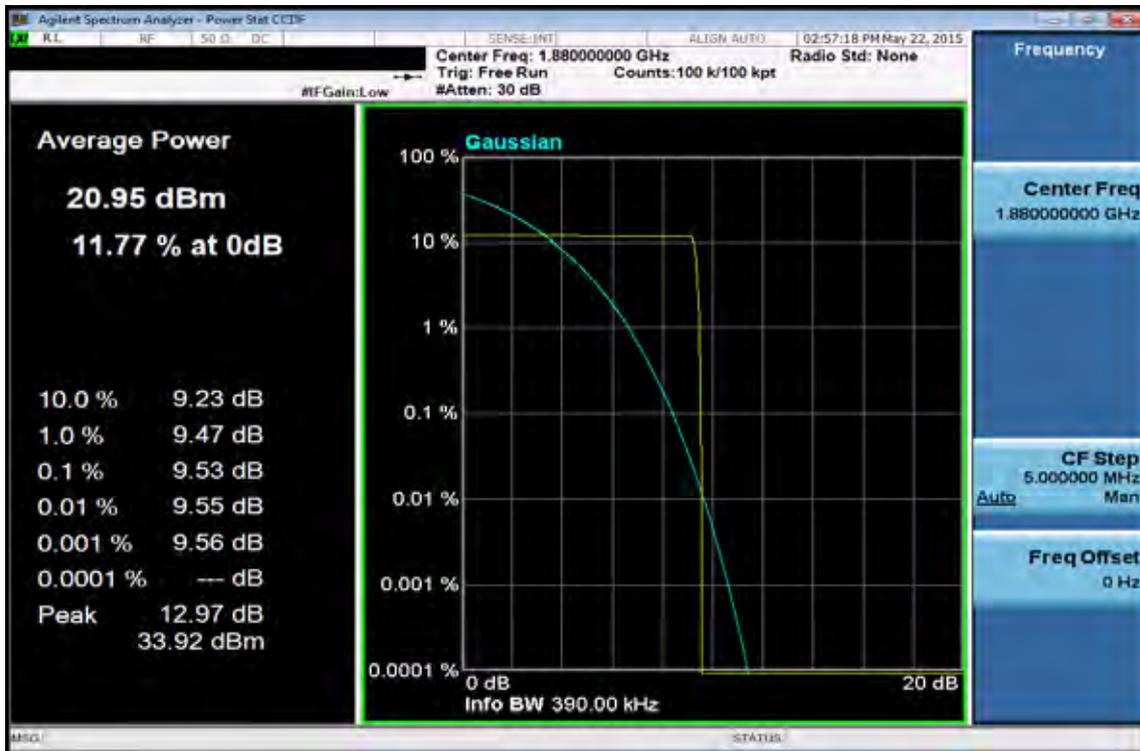
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**EDGE 850 Channel Low**



**EDGE 850 Channel Mid**



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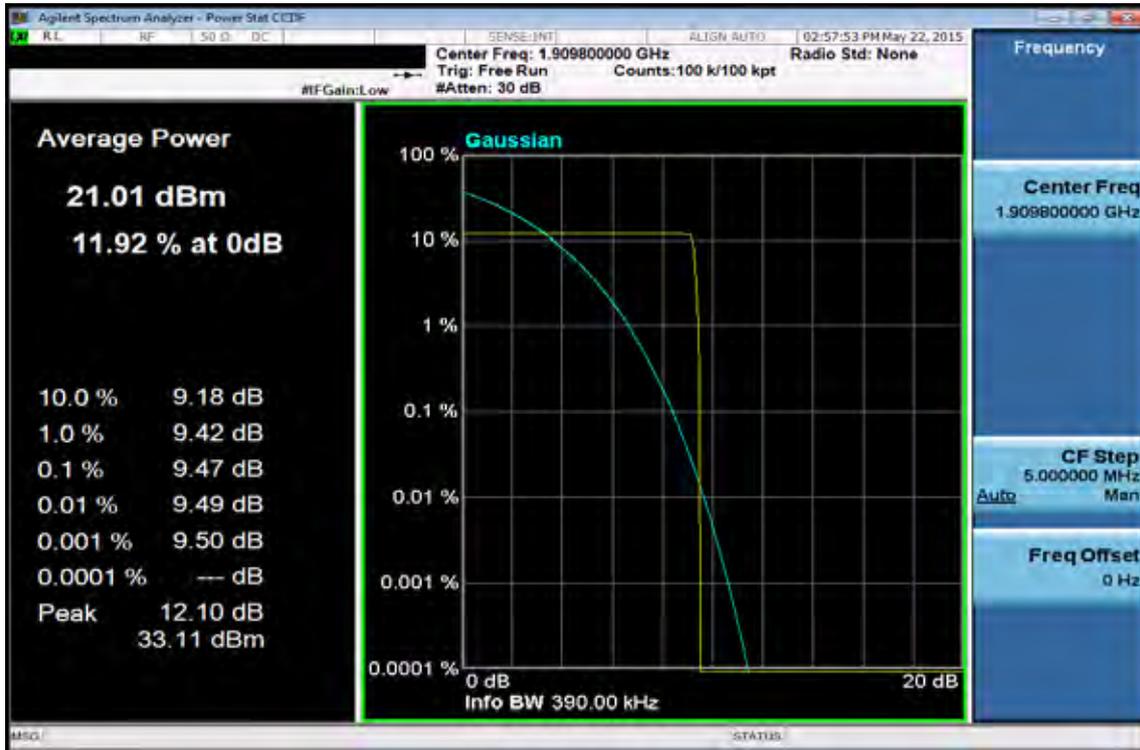
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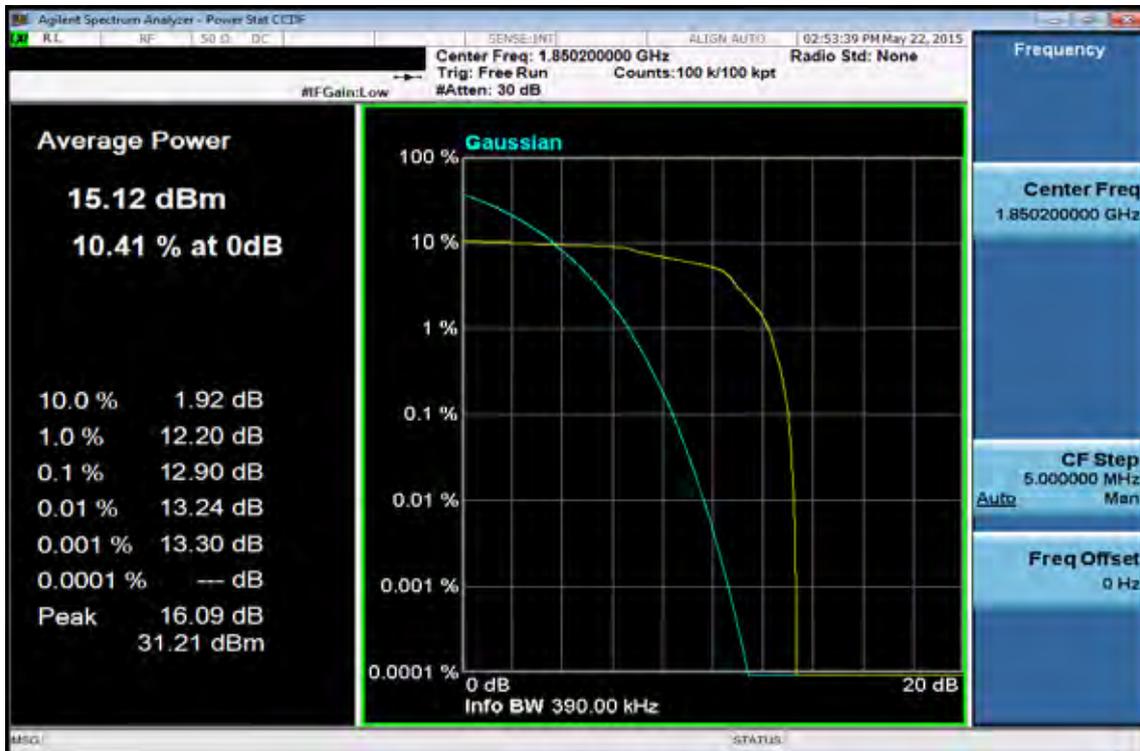
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**EDGE 850 Channel High**



**EDGE 1900 Channel Low**



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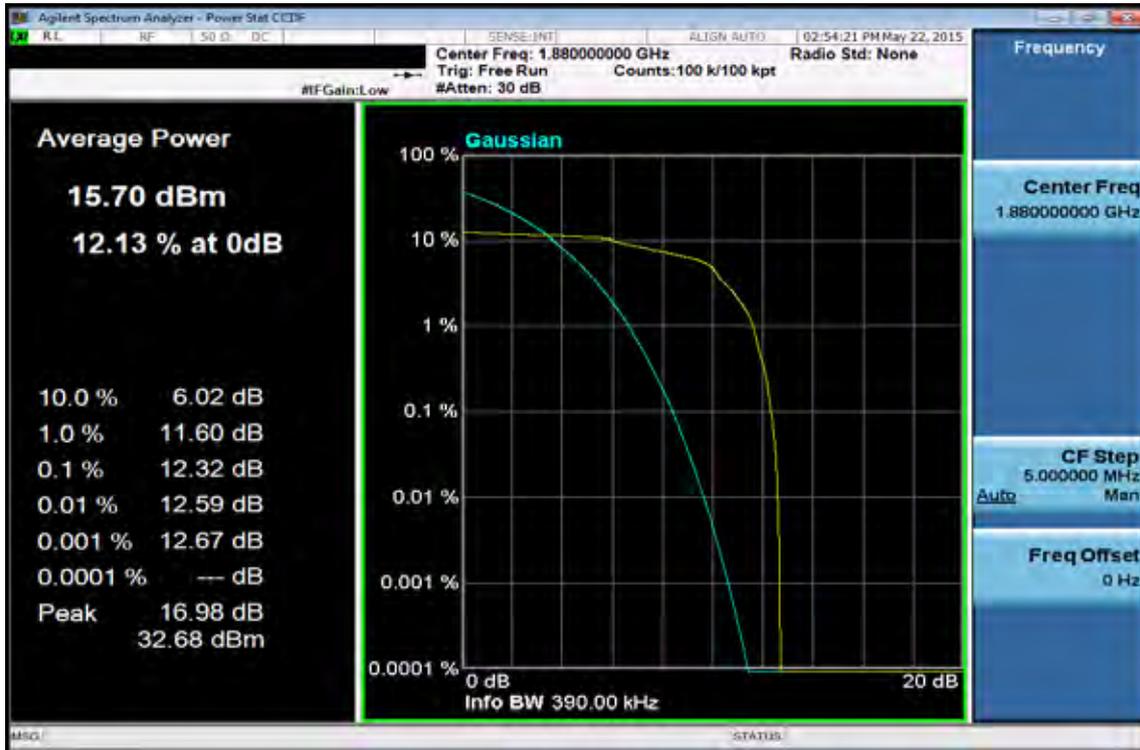
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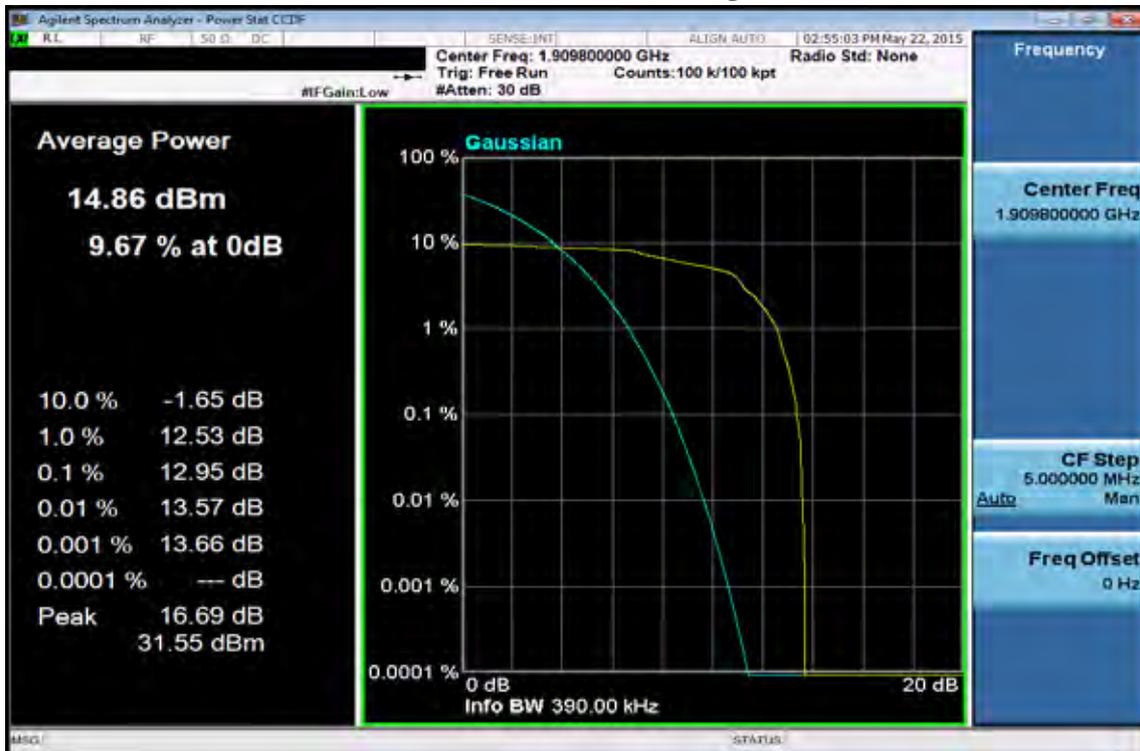
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### EDGE 1900 Channel Mid



### EDGE 1900 Channel High



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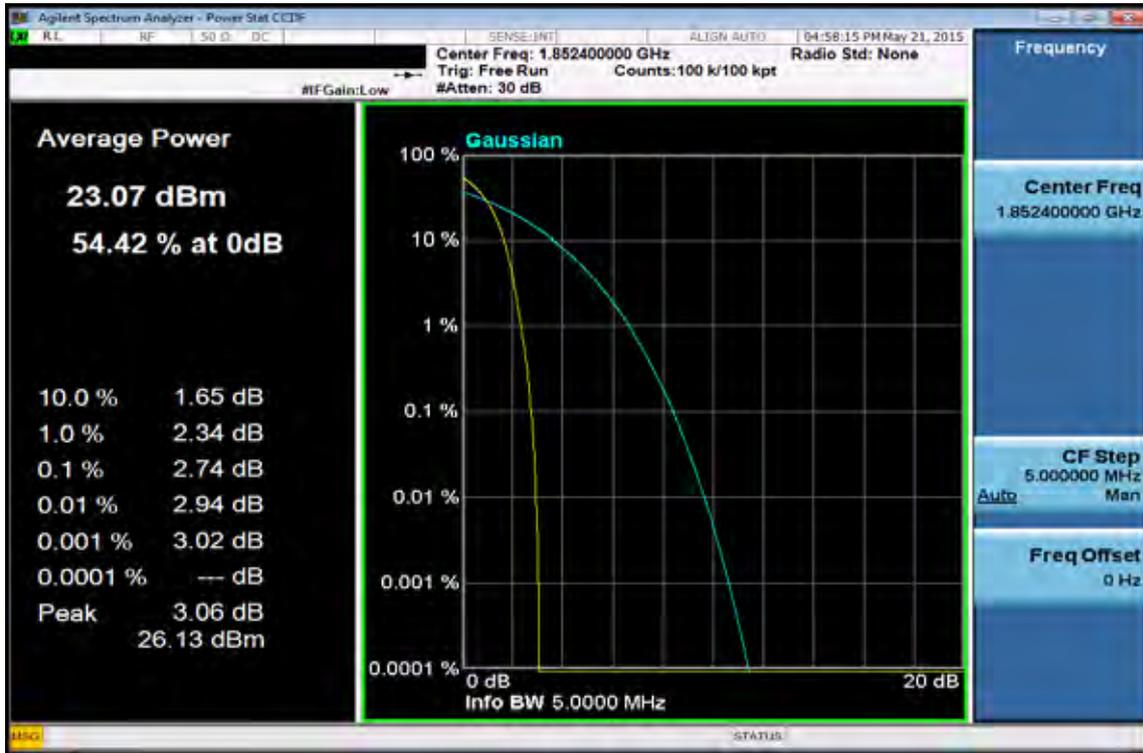
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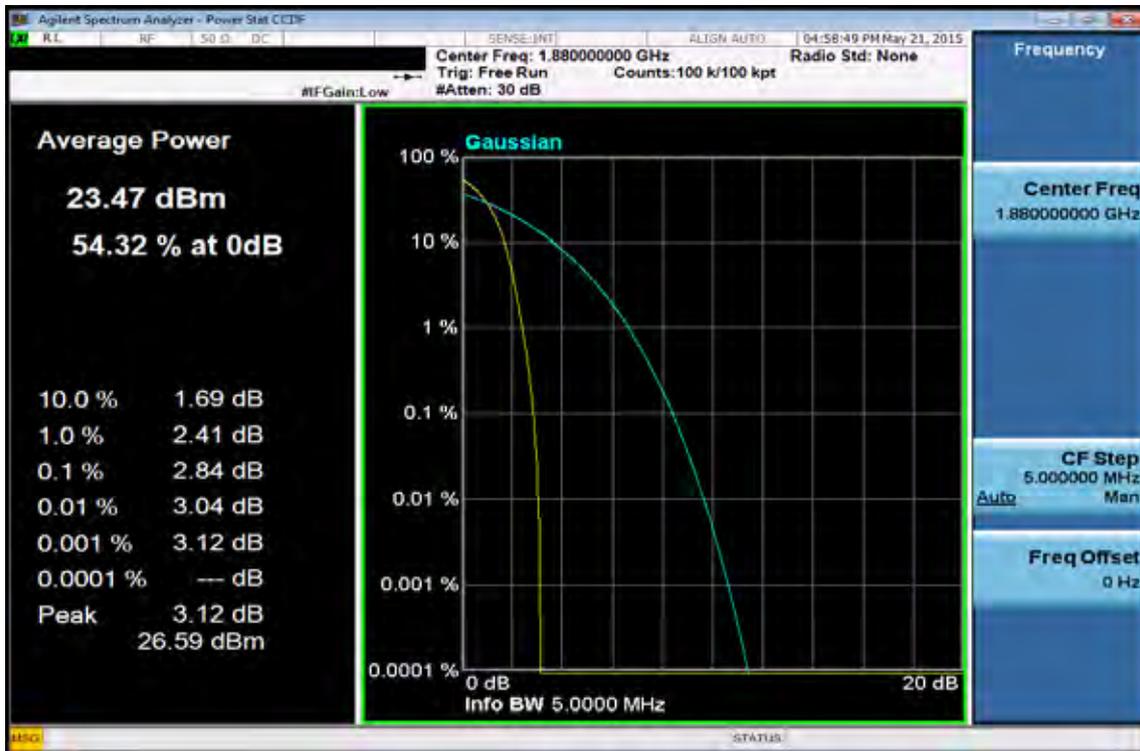
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WCDMA Band II Channel Low



WCDMA Band II Channel Mid



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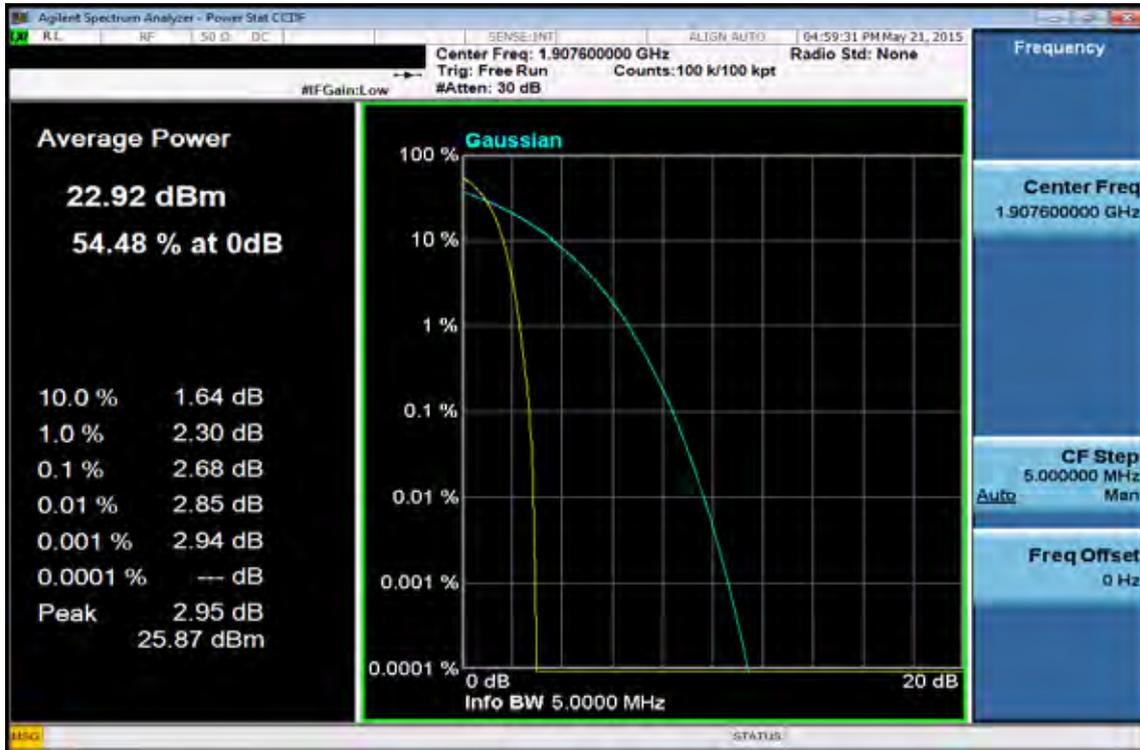
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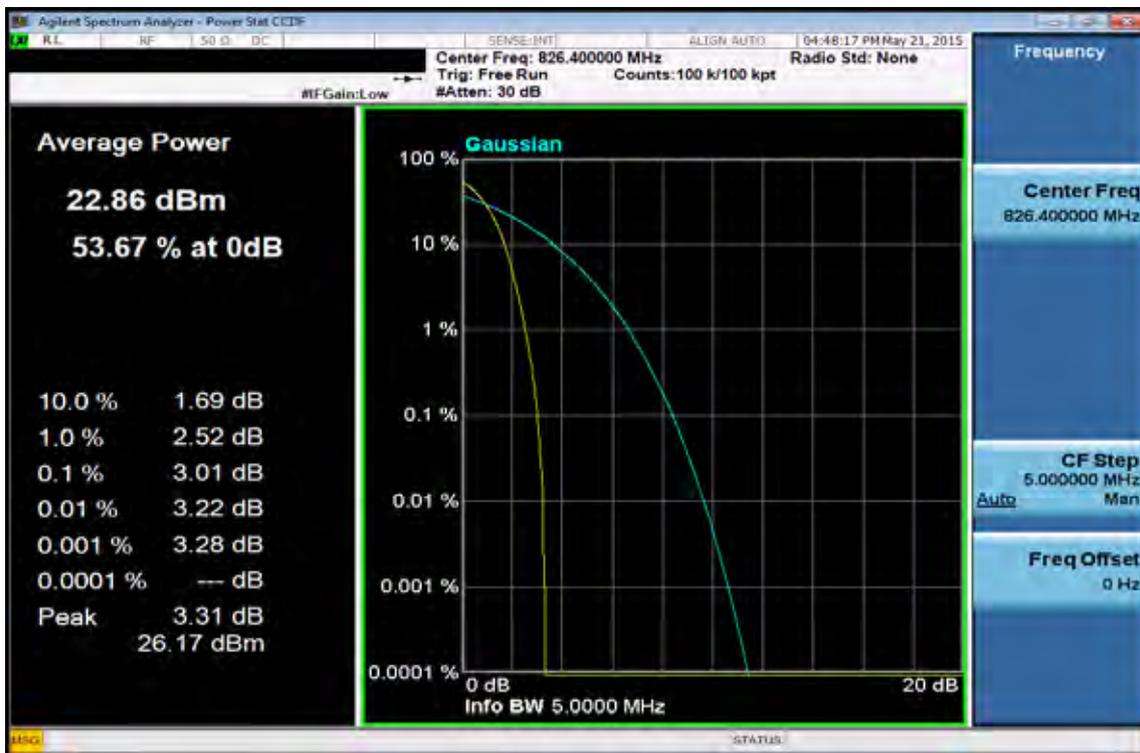
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WCDMA Band II Channel High



WCDMA Band V Channel Low



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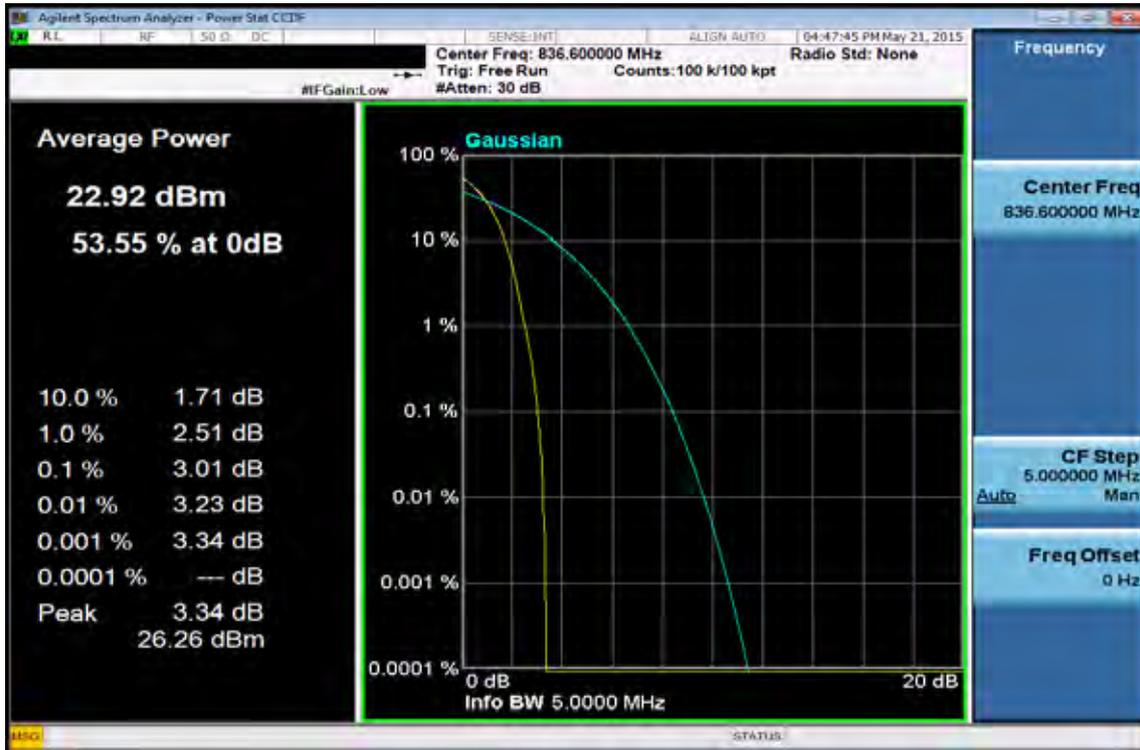
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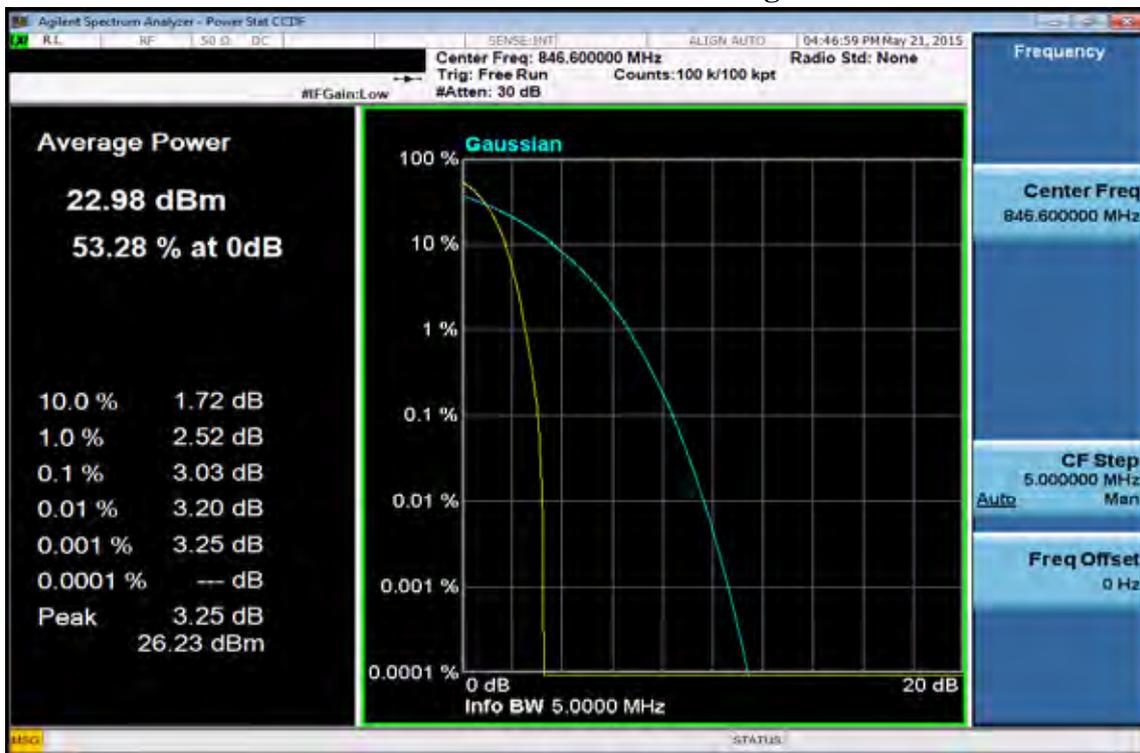
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WCDMA Band V Channel Mid



WCDMA Band V Channel High



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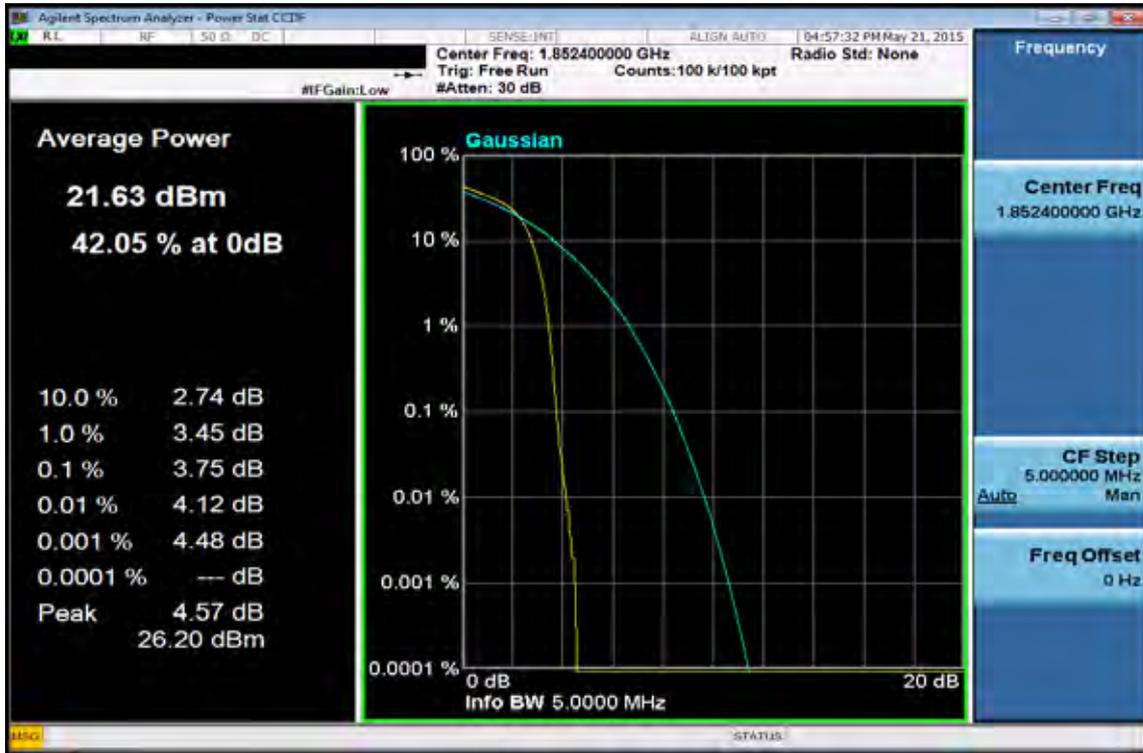
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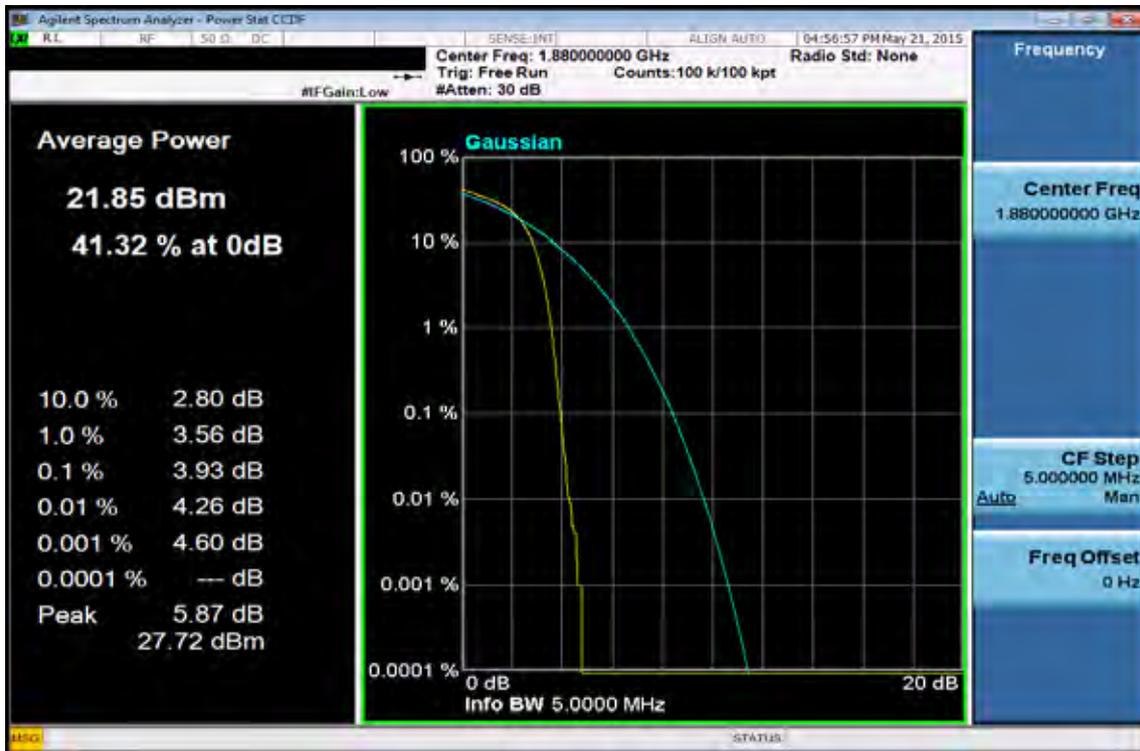
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### HSDPA Band II Channel Low



### HSDPA Band II Channel Mid



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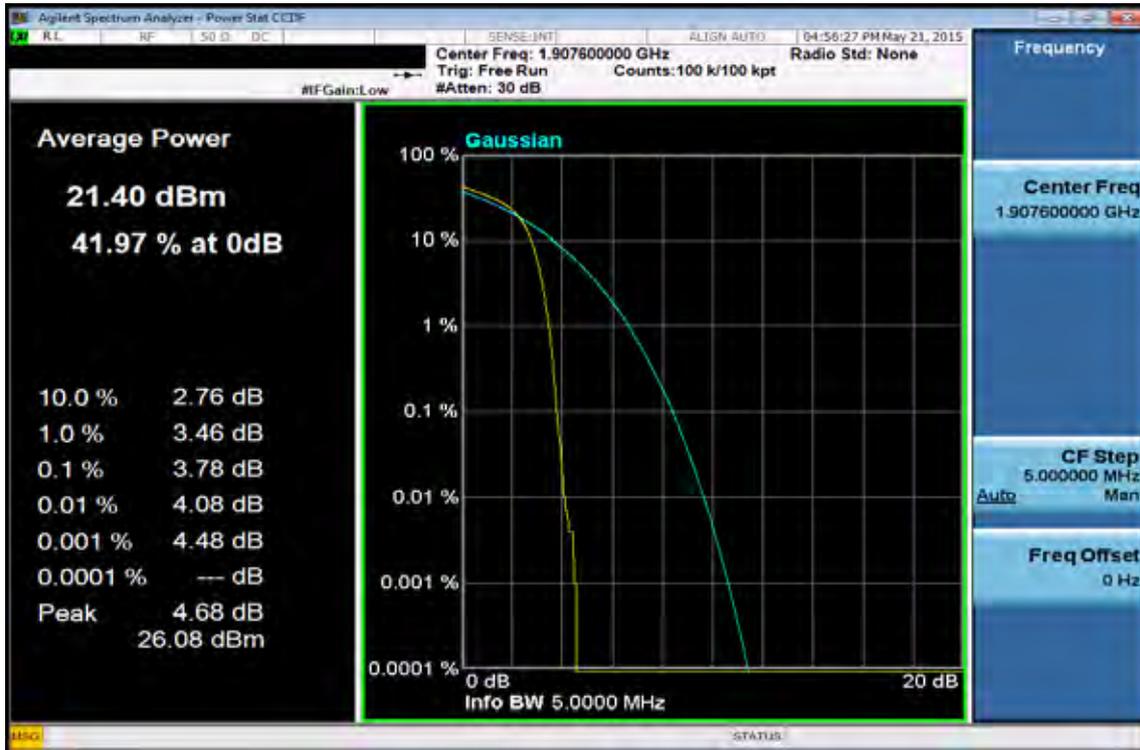
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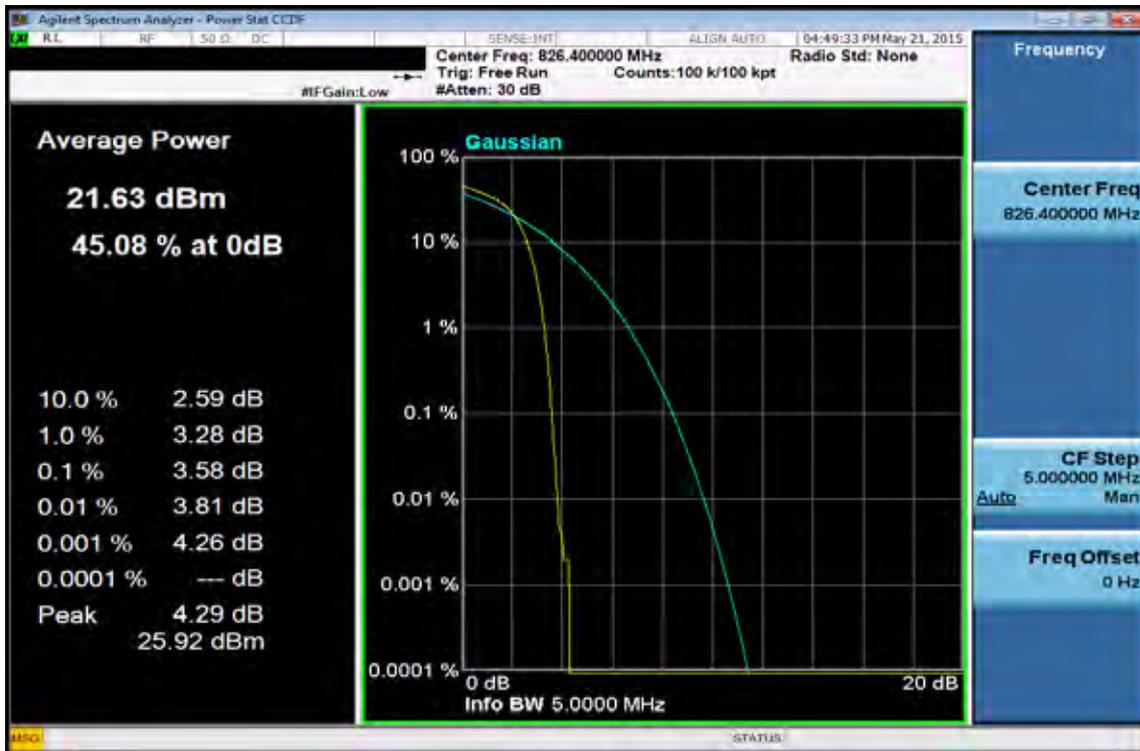
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### HSDPA Band II Channel High



### HSDPA Band V Channel Low



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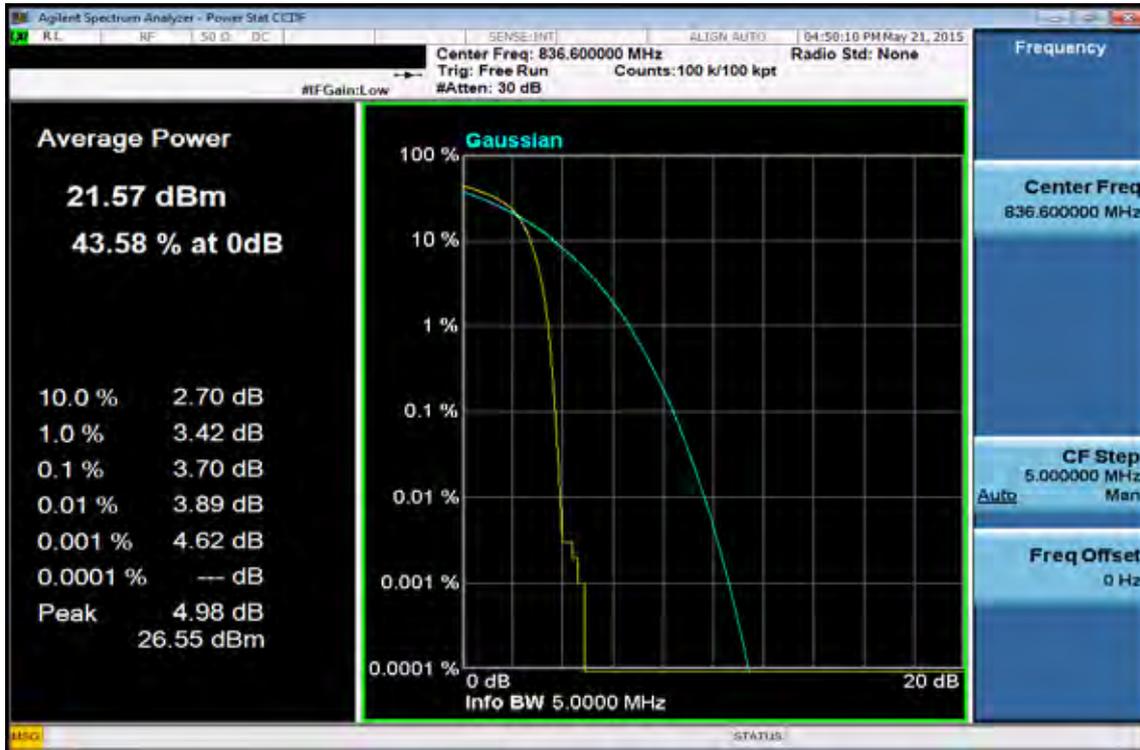
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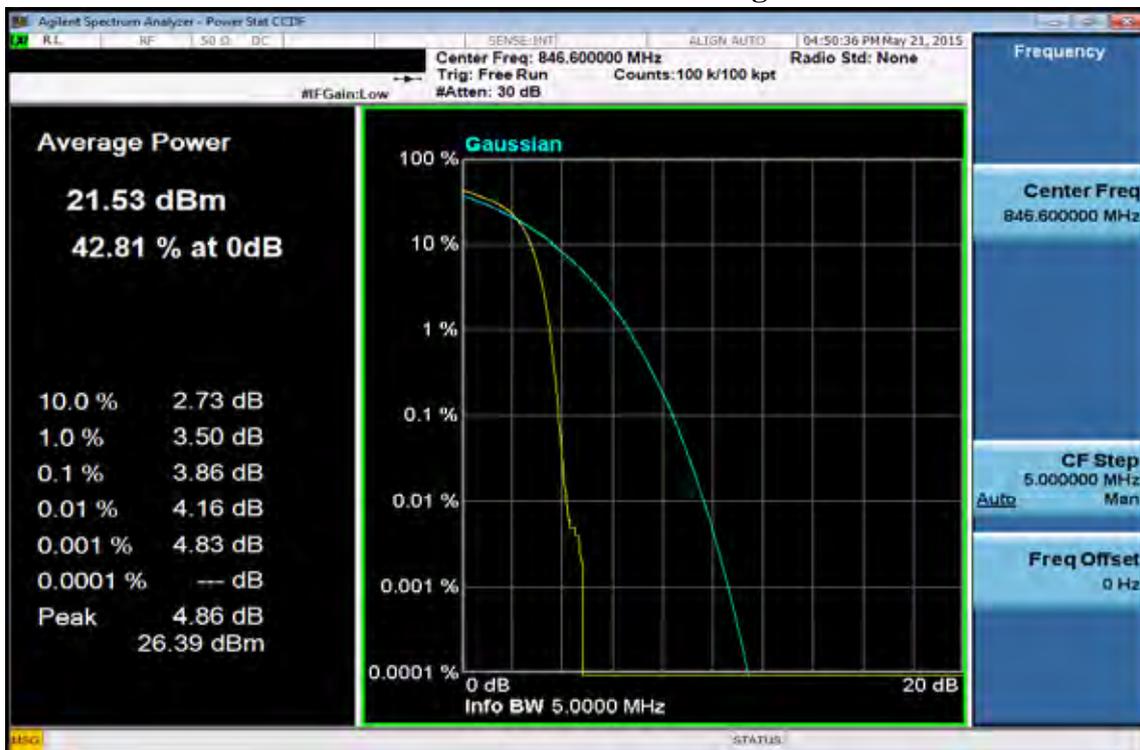
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### HSDPA Band V Channel Mid



### HSDPA Band V Channel High



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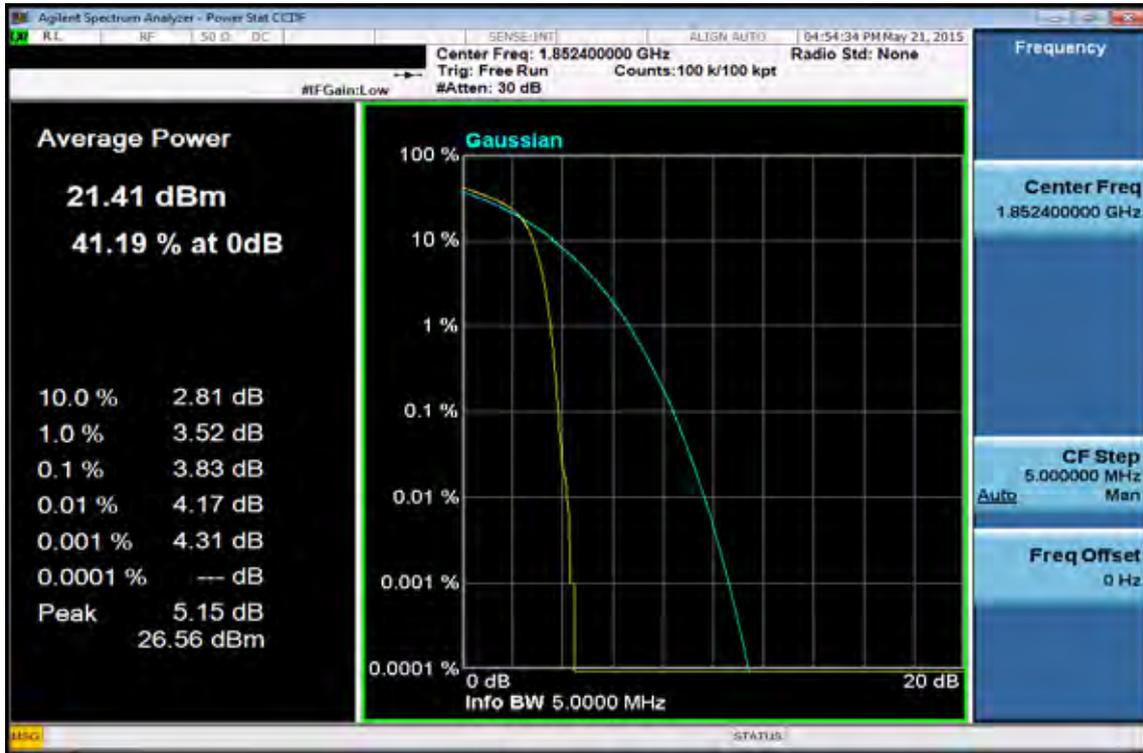
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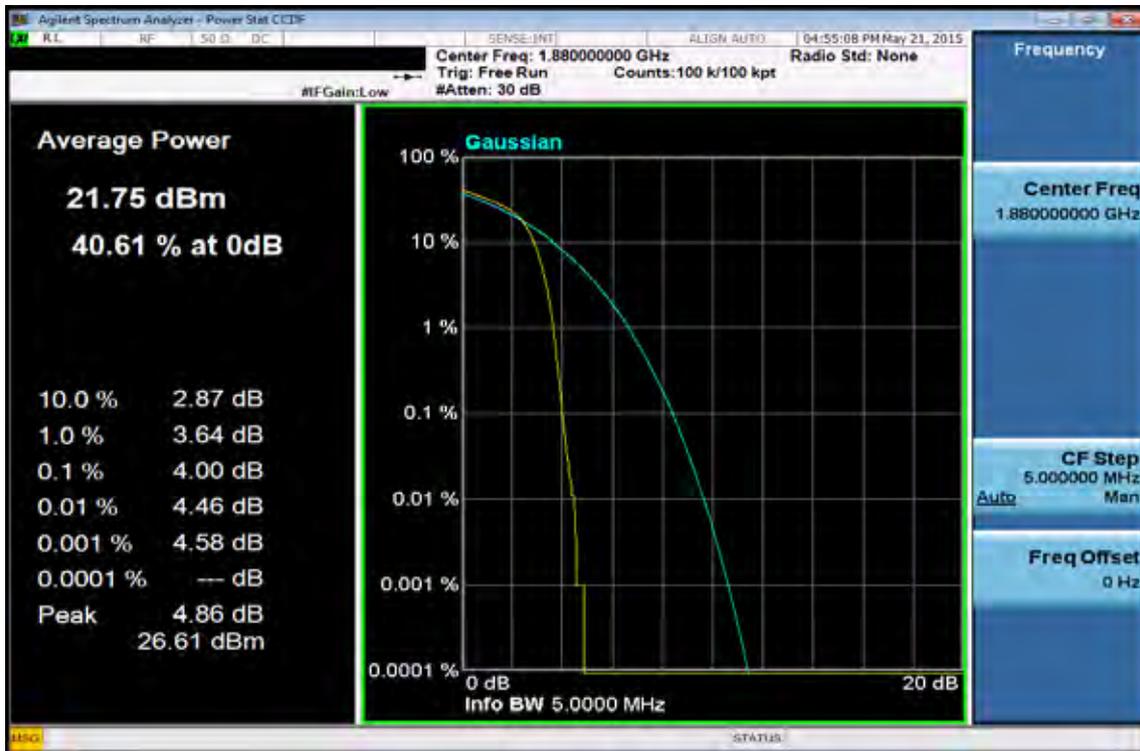
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### HSUPA Band II Channel Low



### HSUPA Band II Channel Mid



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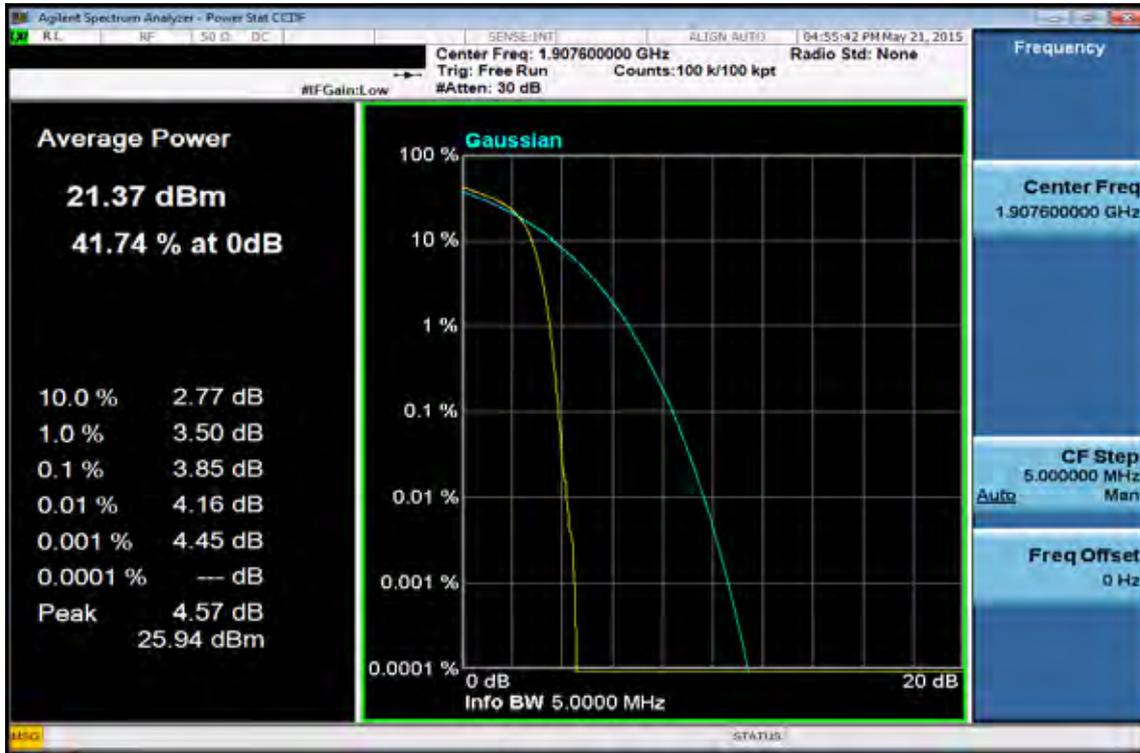
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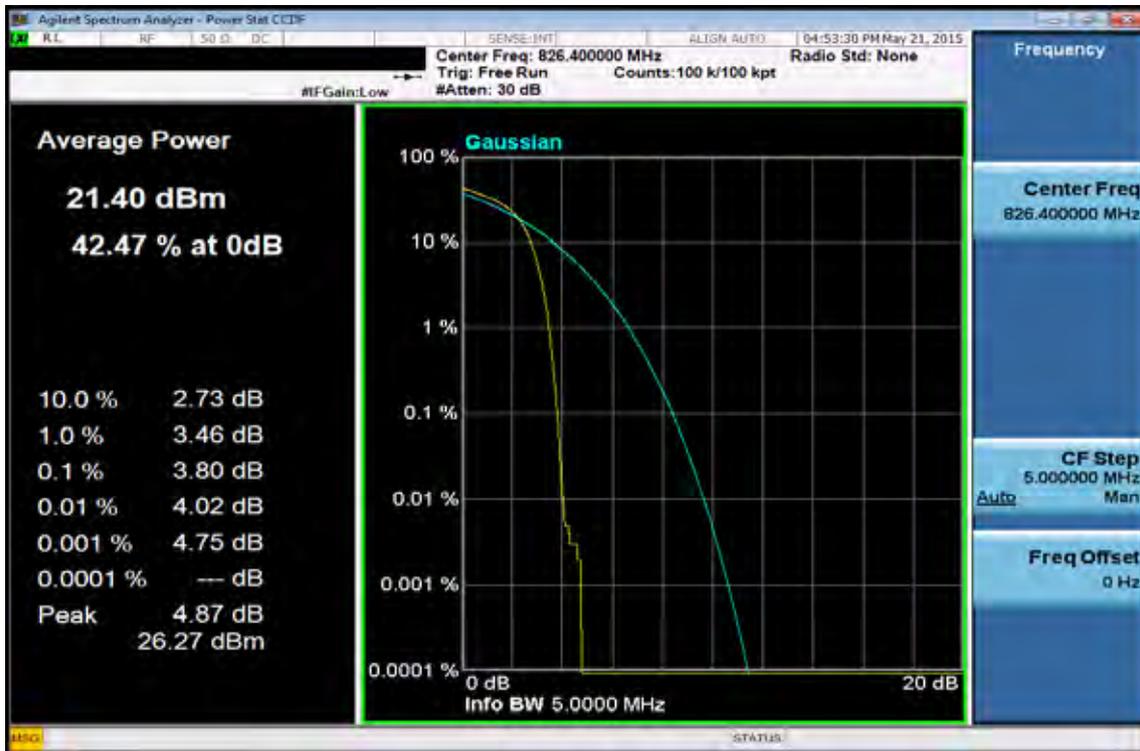
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### HSUPA Band II Channel High



### HSUPA Band V Channel Low



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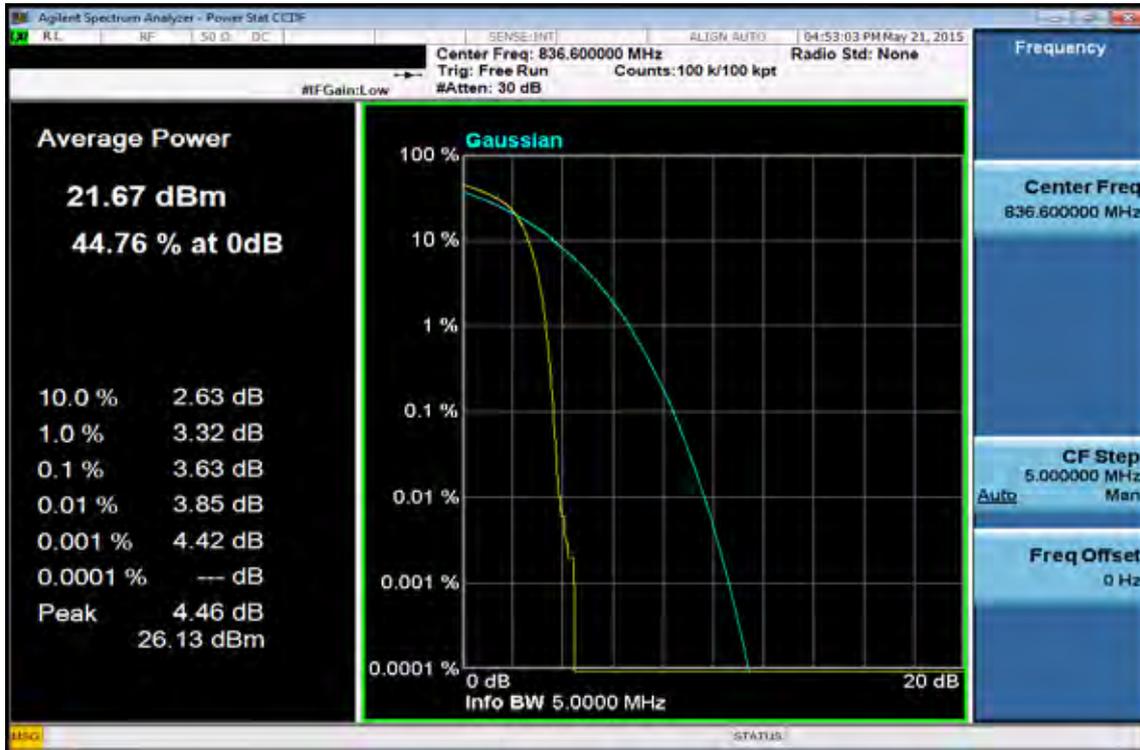
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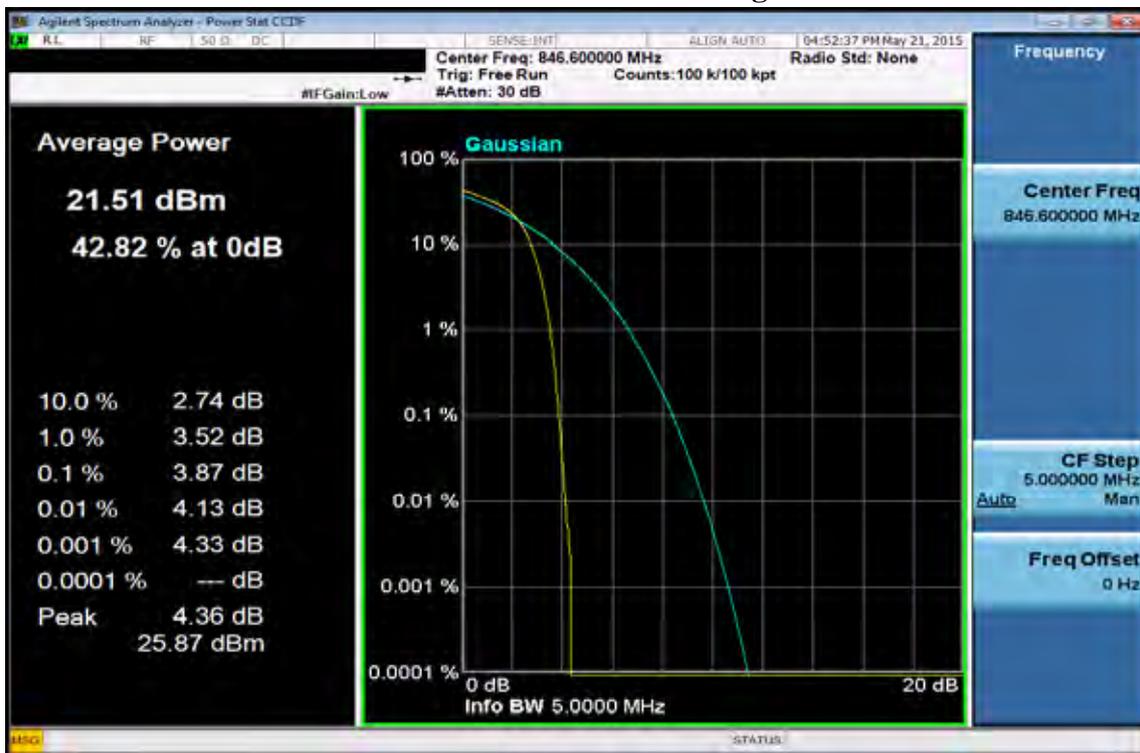
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### HSUPA Band V Channel Mid



### HSUPA Band V Channel High



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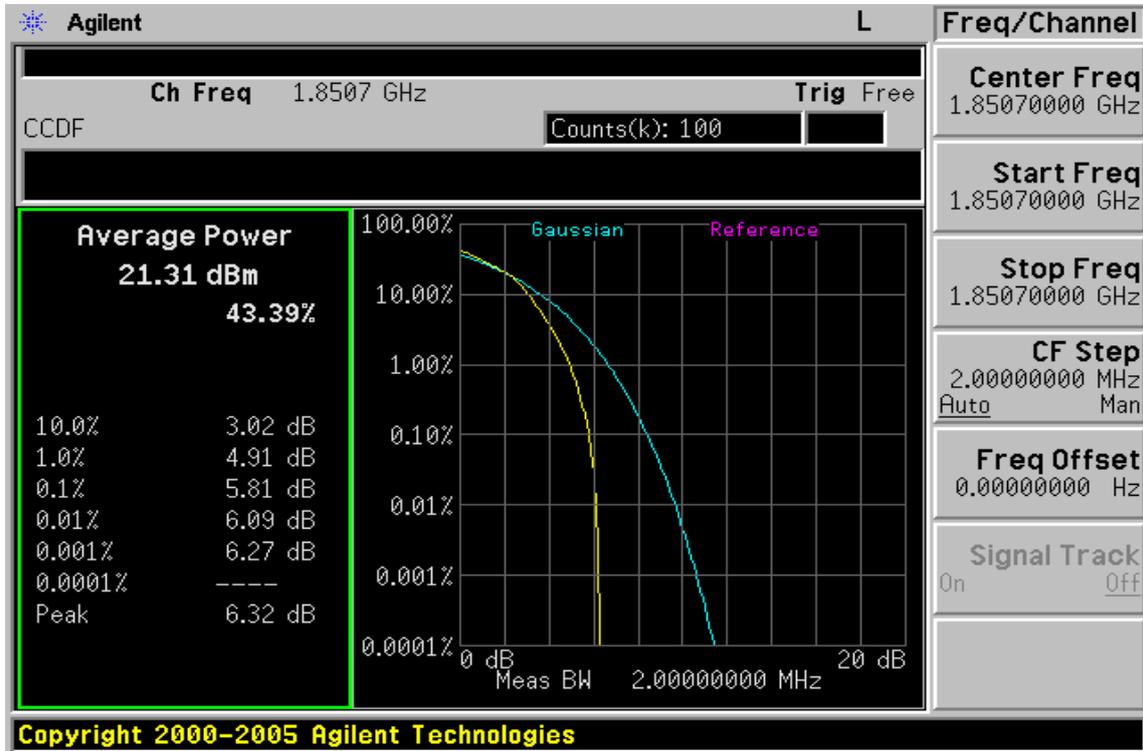
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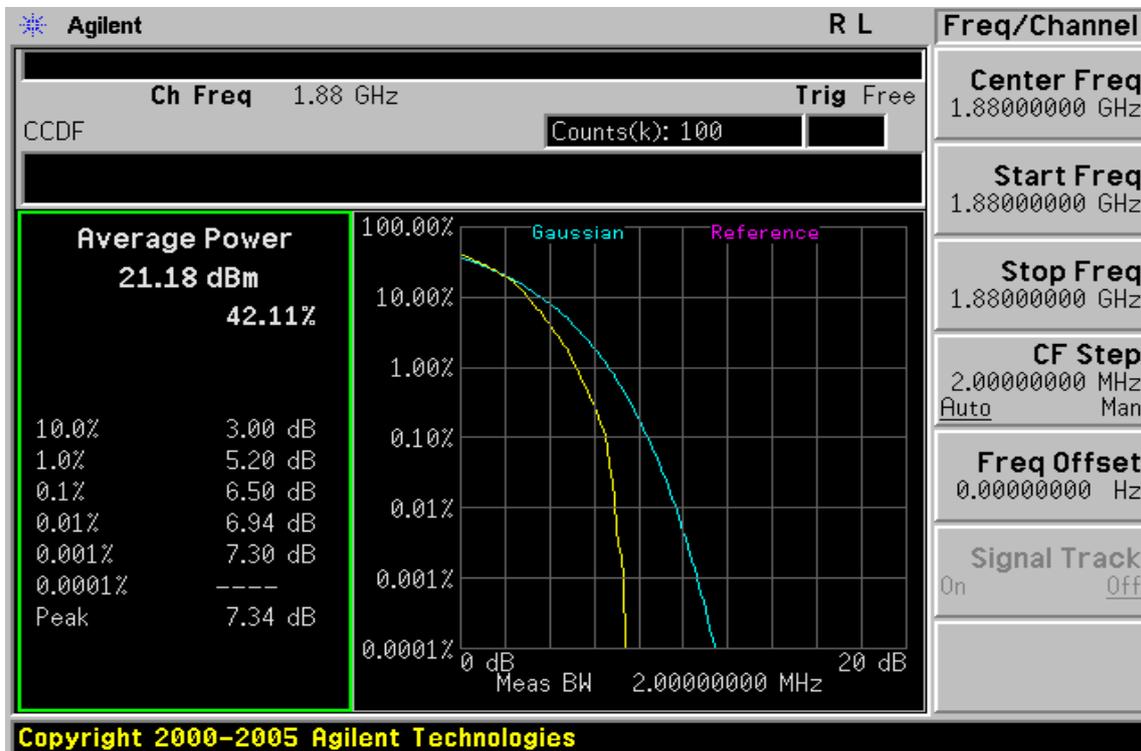
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1.4MHz BW LTE-Band 2(16QAM Number: 6 Offset: 0) Channel Low



1.4MHz BW LTE-Band 2(16QAM Number: 6 Offset: 0) Channel Mid



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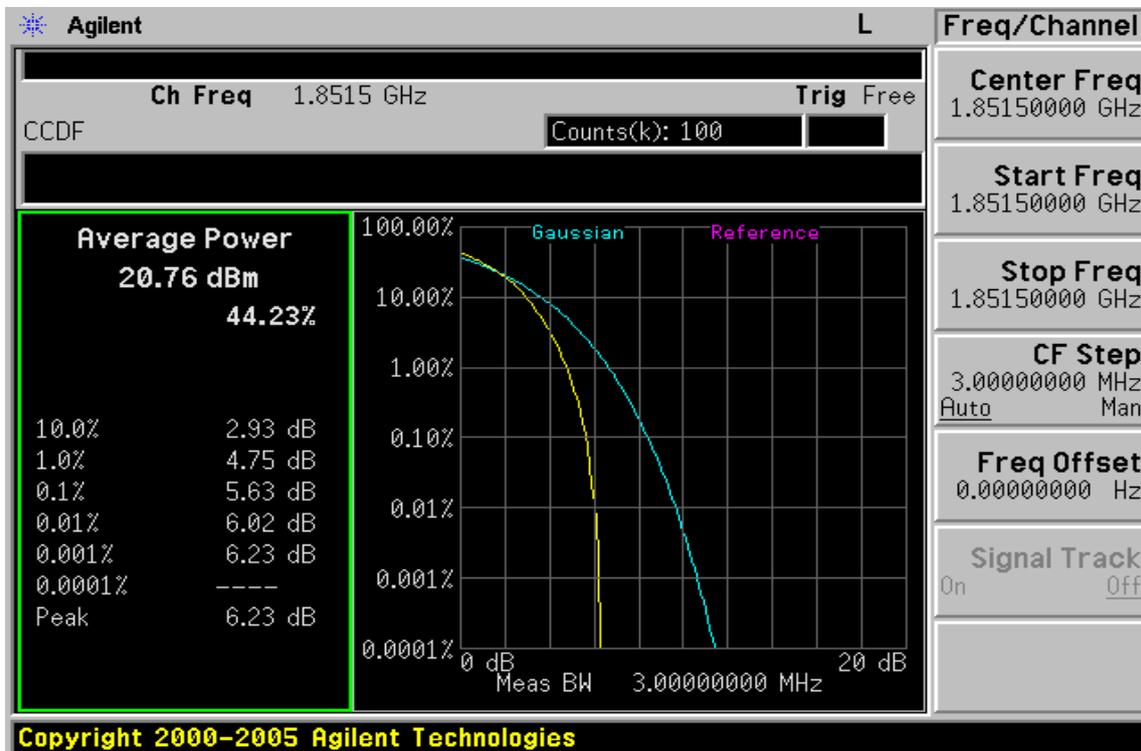
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**1.4MHz BW LTE-Band 2(16QAM Number: 6 Offset: 0) Channel High**



**3MHz BW LTE-Band 2(16QAM Number: 15 Offset: 0) Channel Low**



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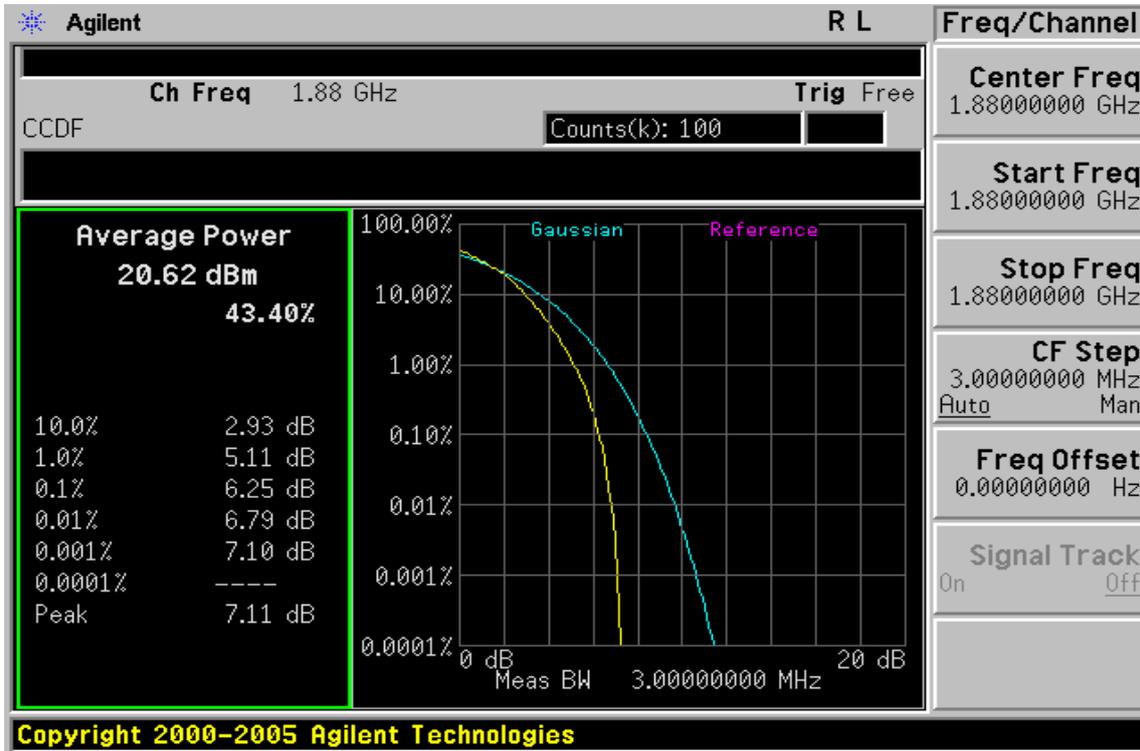
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**3MHz BW LTE-Band 2(16QAM Number: 15 Offset: 0) Channel Mid**



**3MHz BW LTE-Band 2(16QAM Number: 15 Offset: 0) Channel High**



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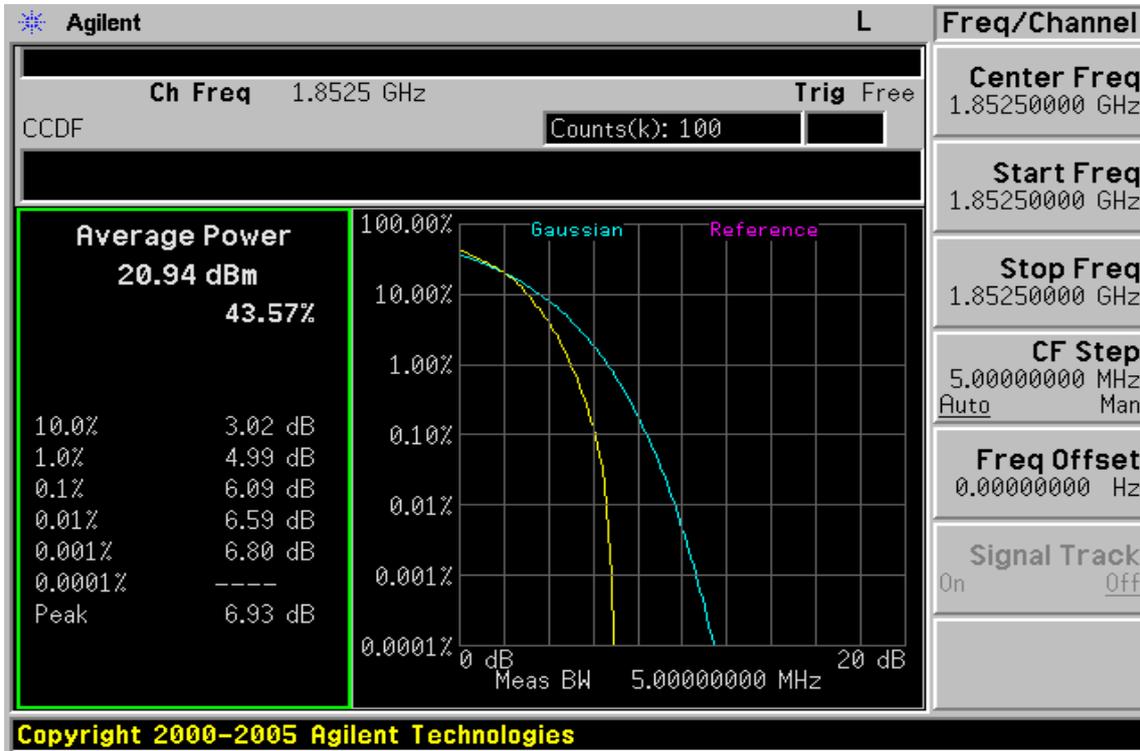
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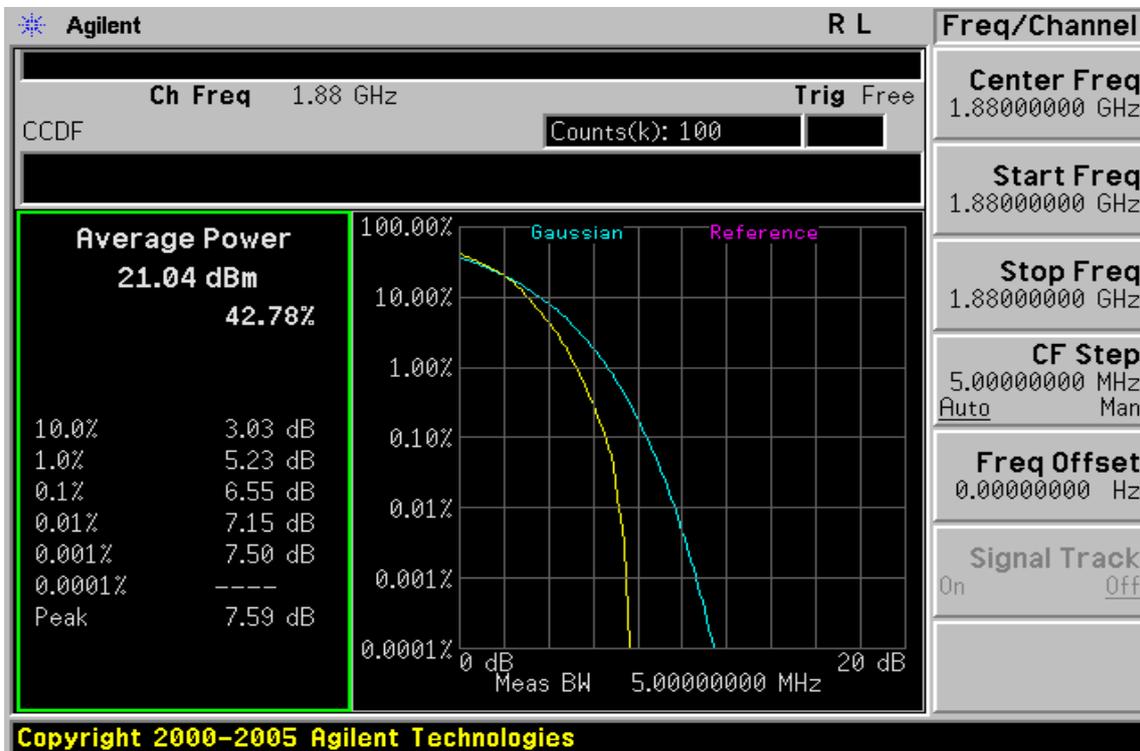
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5MHz BW LTE-Band 2(16QAM Number: 25 Offset: 0) Channel Low



5MHz BW LTE-Band 2(16QAM Number: 25 Offset: 0) Channel Mid



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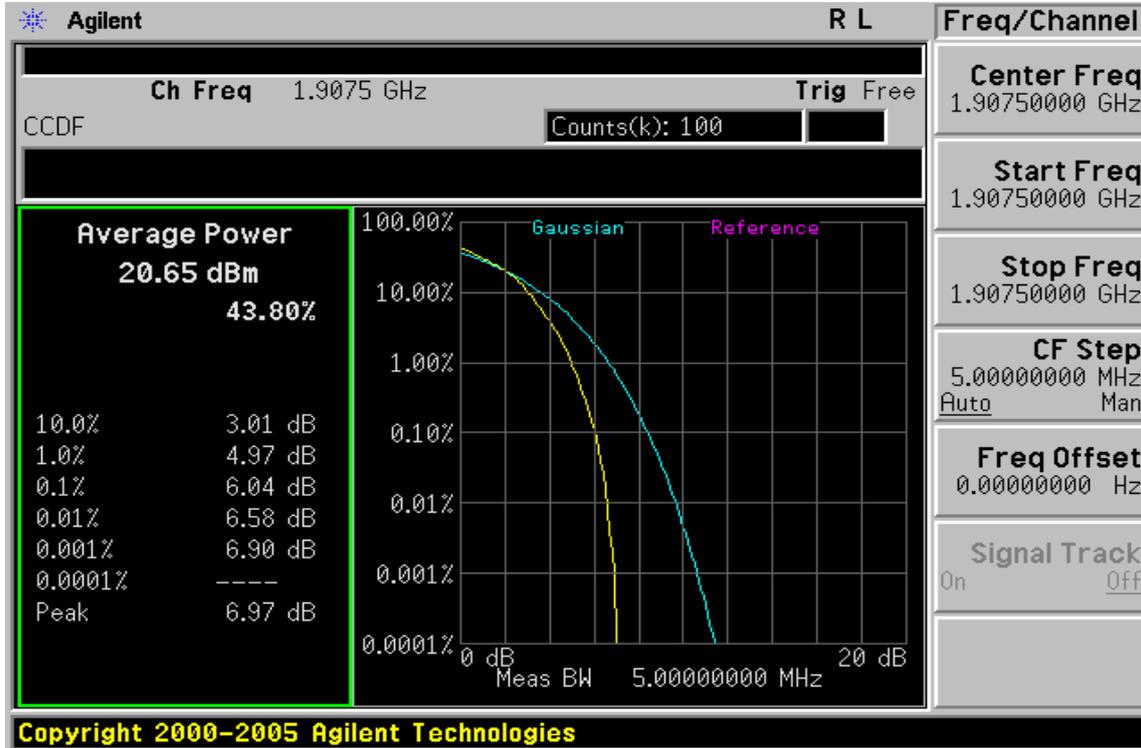
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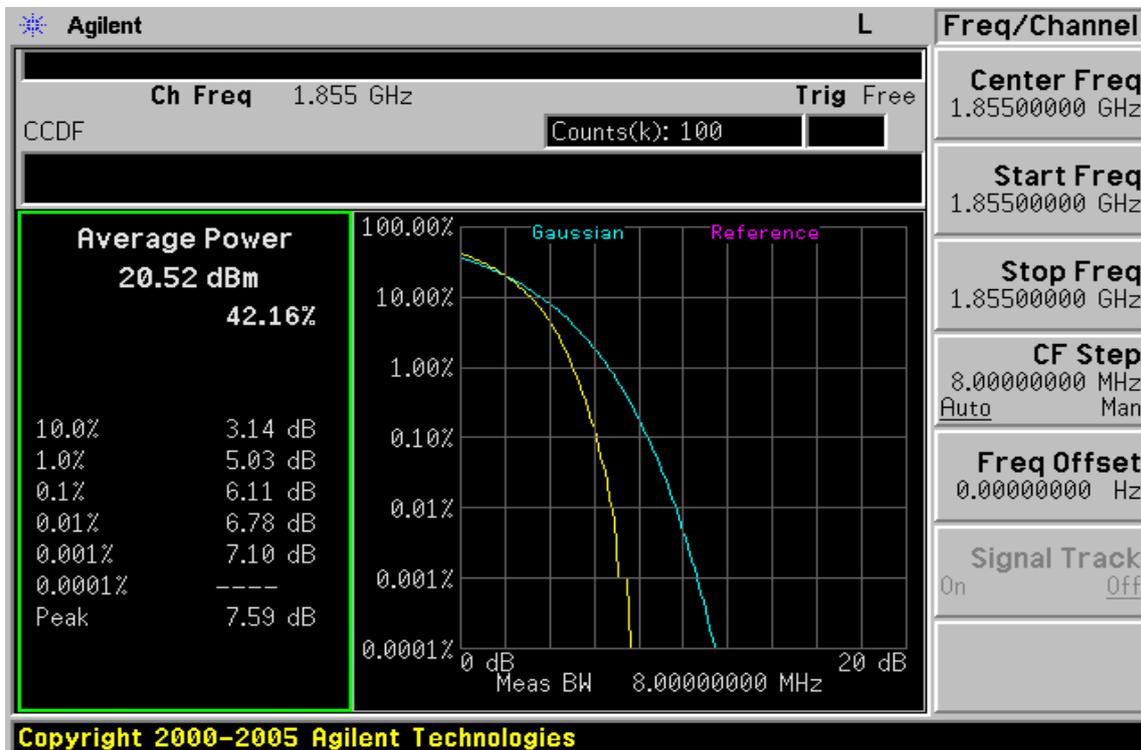
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**5MHz BW LTE-Band 2(16QAM Number: 25 Offset: 0) Channel High**



**10MHz BW LTE-Band 2(16QAM Number: 50 Offset: 0) Channel Low**



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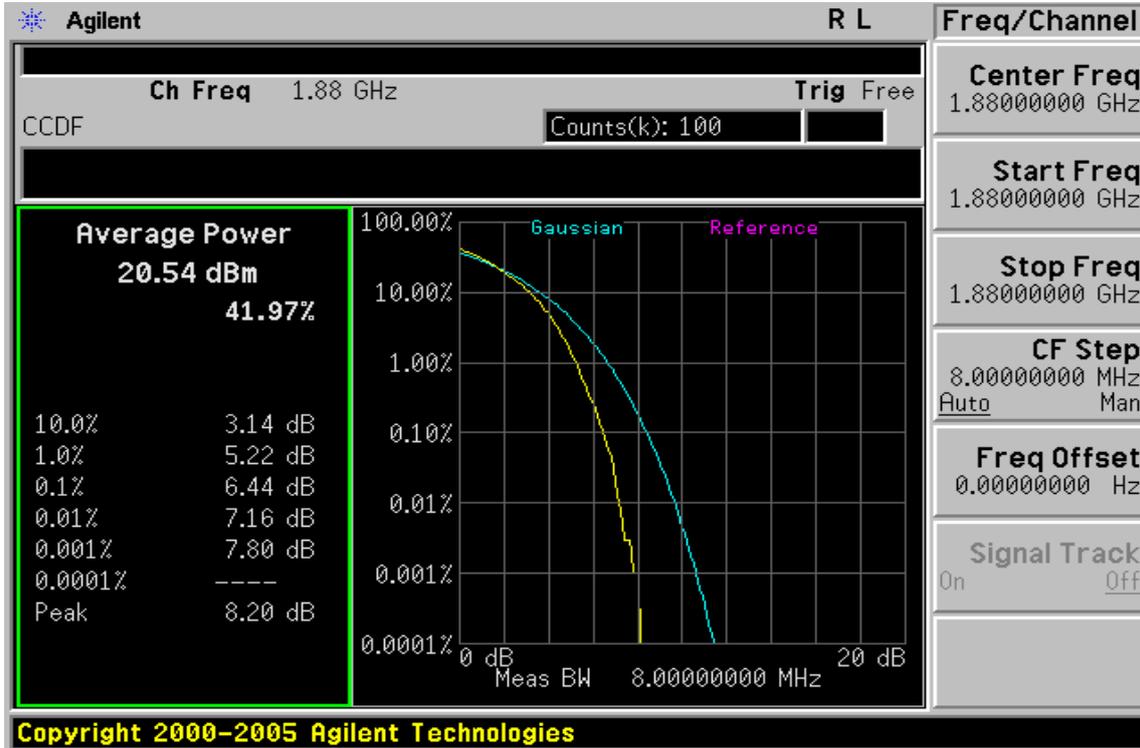
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**10MHz BW LTE-Band 2(16QAM Number: 50 Offset: 0) Channel Mid**



**10MHz BW LTE-Band 2(16QAM Number: 50 Offset: 0) Channel High**



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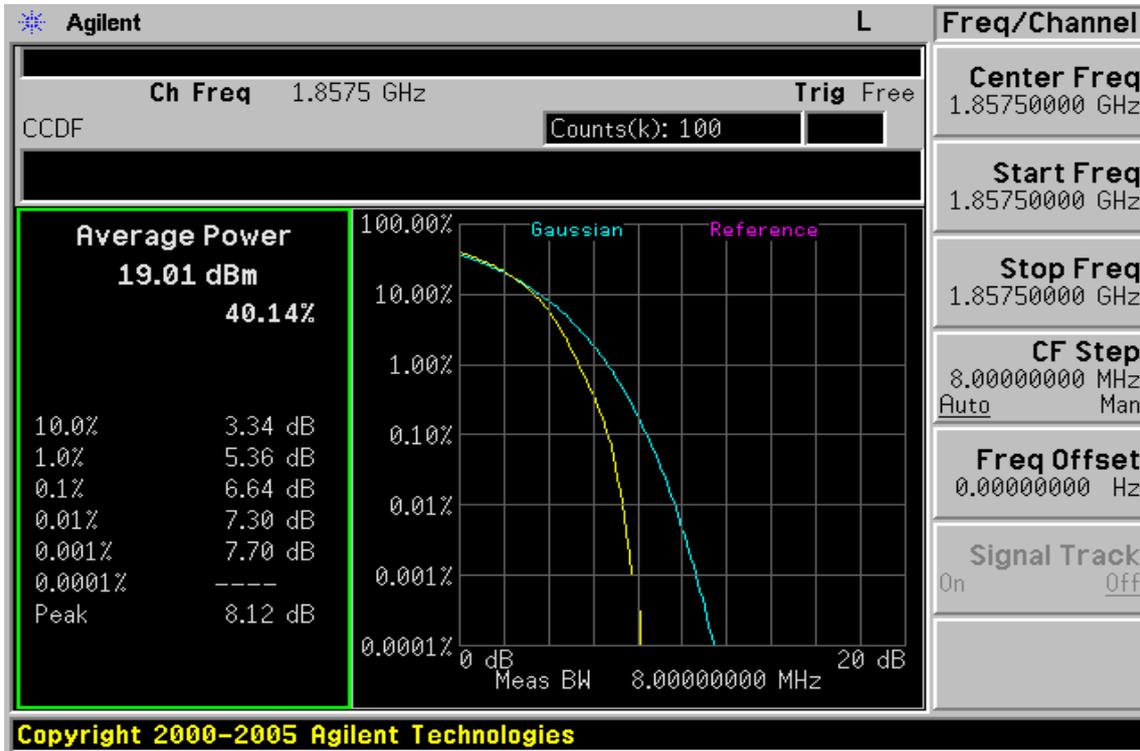
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15MHz BW LTE-Band 2(16QAM Number: 75 Offset: 0) Channel Low



15MHz BW LTE-Band 2(16QAM Number: 75 Offset: 0) Channel Mid



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**15MHz BW LTE-Band 2(16QAM Number: 75 Offset: 0) Channel High**



**20MHz BW LTE-Band 2(16QAM Number: 100 Offset: 0) Channel Low**



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**20MHz BW LTE-Band 2(16QAM Number: 100 Offset: 0) Channel Mid**



**20MHz BW LTE-Band 2(16QAM Number: 100 Offset: 0) Channel High**



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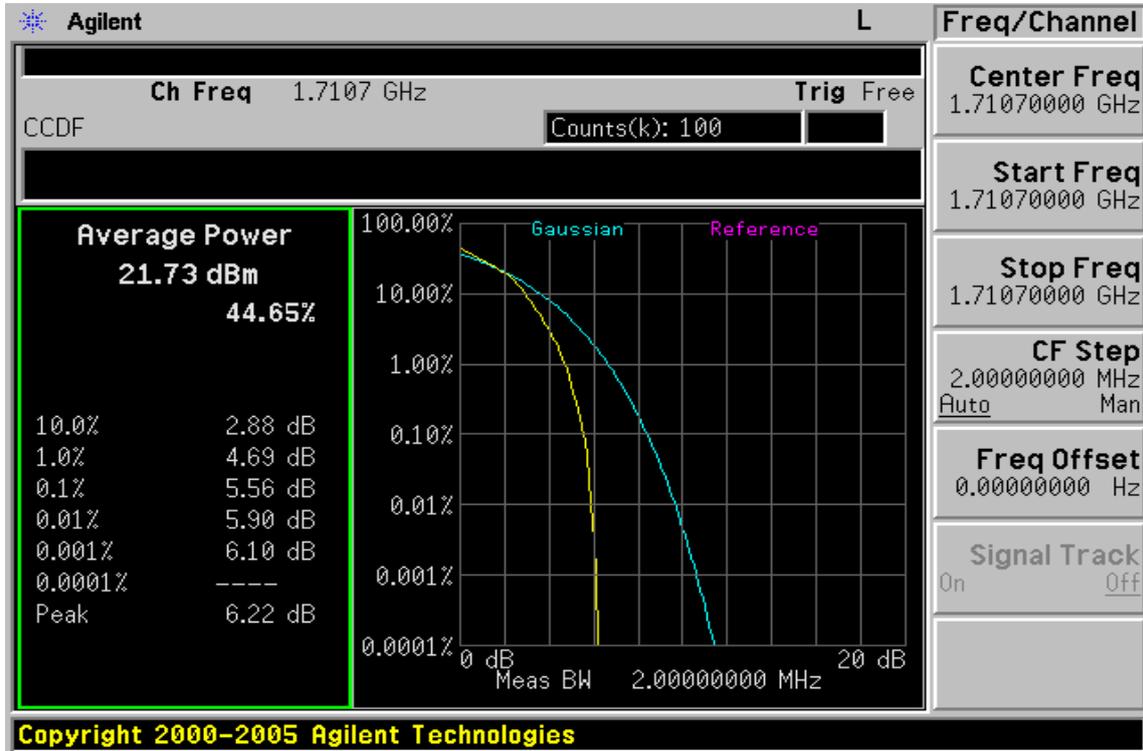
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**1.4MHz BW LTE-Band 4(16QAM Number: 6 Offset: 0) Channel Low**



**1.4MHz BW LTE-Band 4(16QAM Number: 6 Offset: 0) Channel Mid**



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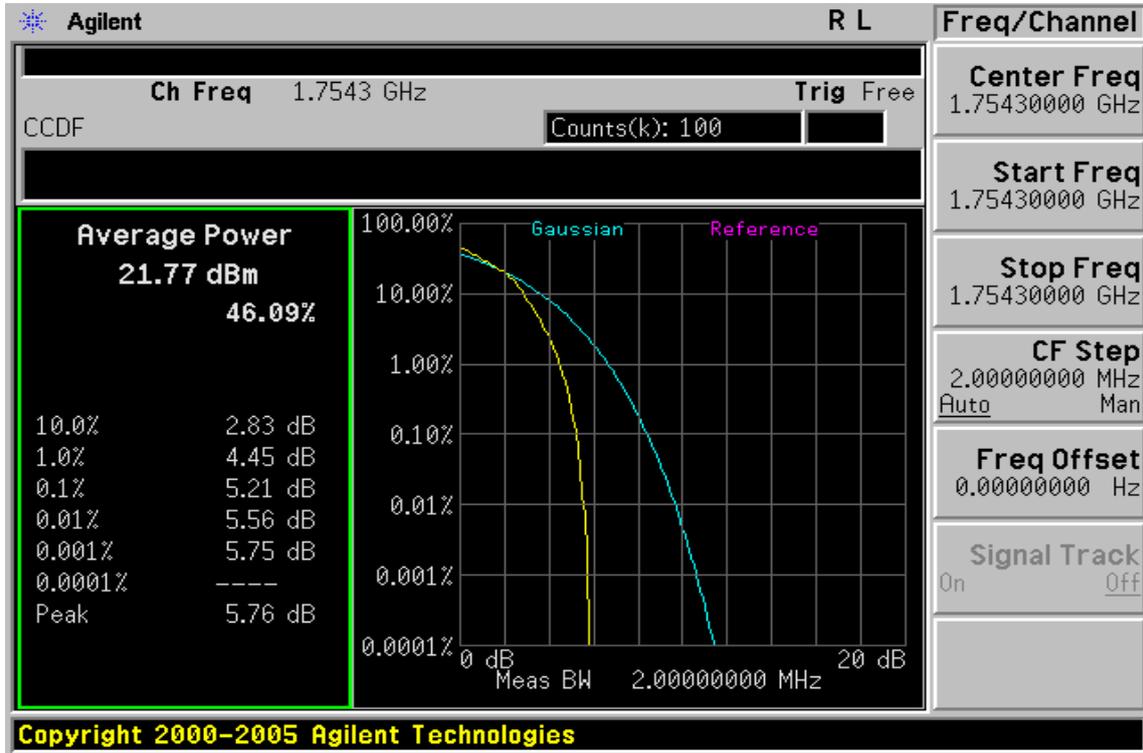
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**1.4MHz BW LTE-Band 4(16QAM Number: 6 Offset: 0) Channel High**



**3MHz BW LTE-Band 4(16QAM Number: 15 Offset: 0) Channel Low**



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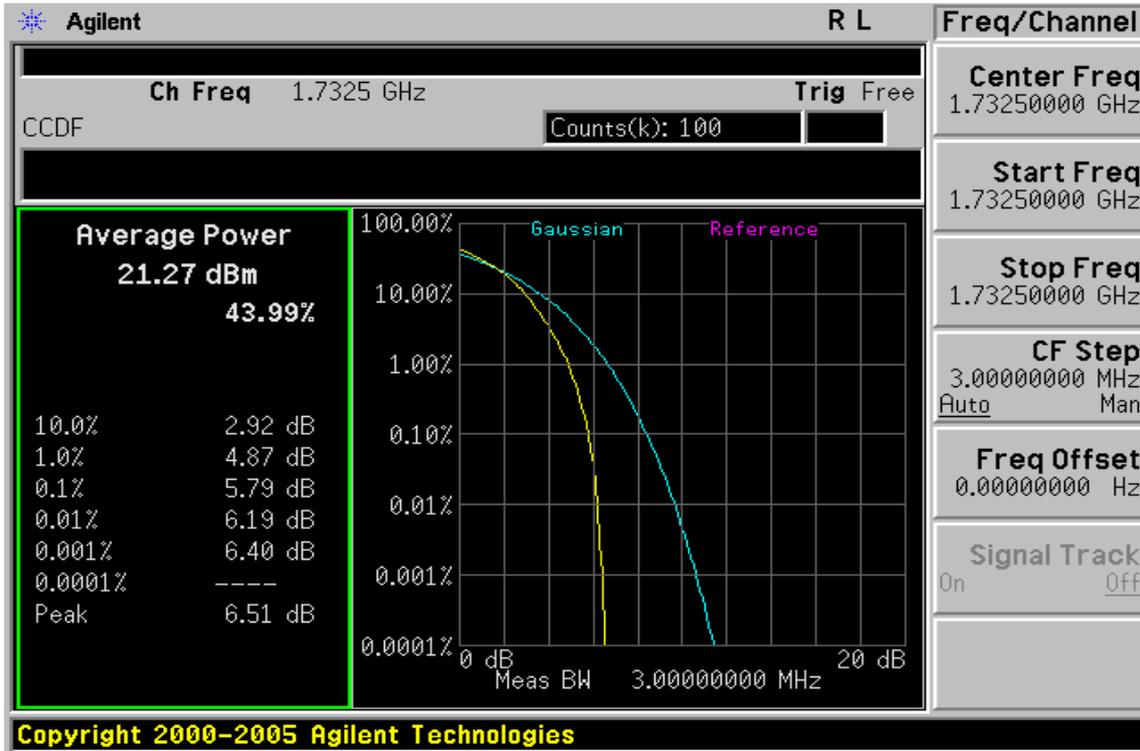
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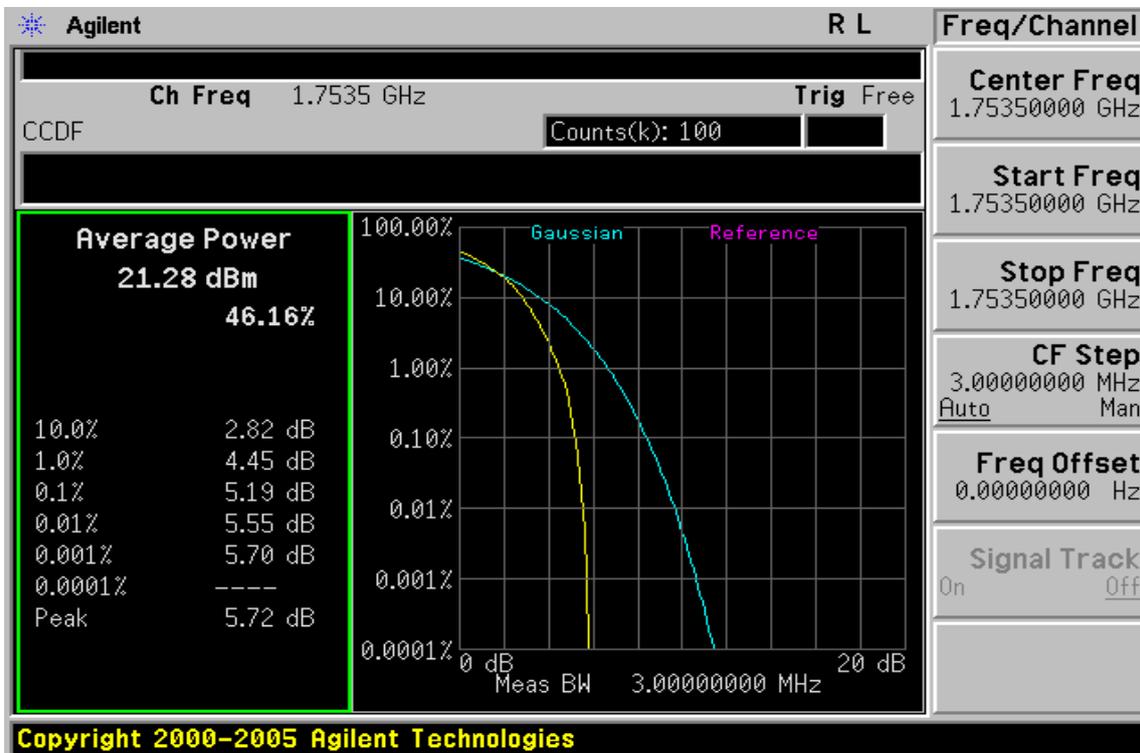
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**3MHz BW LTE-Band 4(16QAM Number: 15 Offset: 0) Channel Mid**



**3MHz BW LTE-Band 4(16QAM Number: 15 Offset: 0) Channel High**



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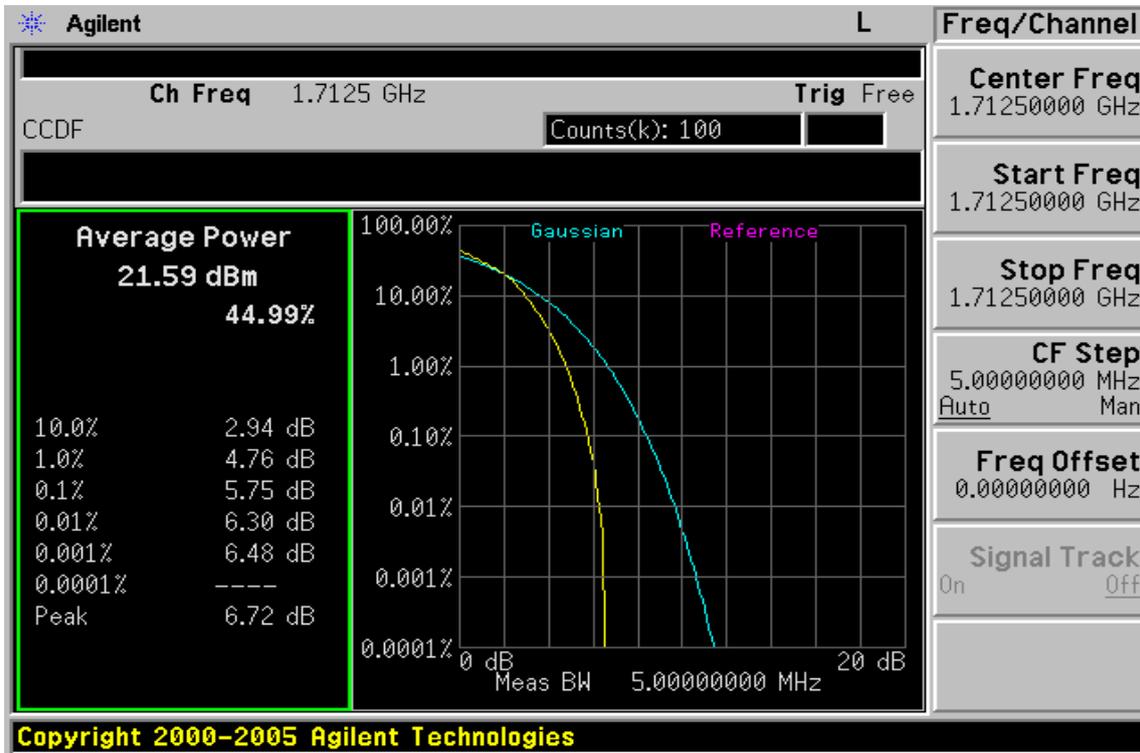
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5MHz BW LTE-Band 4(16QAM Number: 25 Offset: 0) Channel Low



5MHz BW LTE-Band 4(16QAM Number: 25 Offset: 0) Channel Mid



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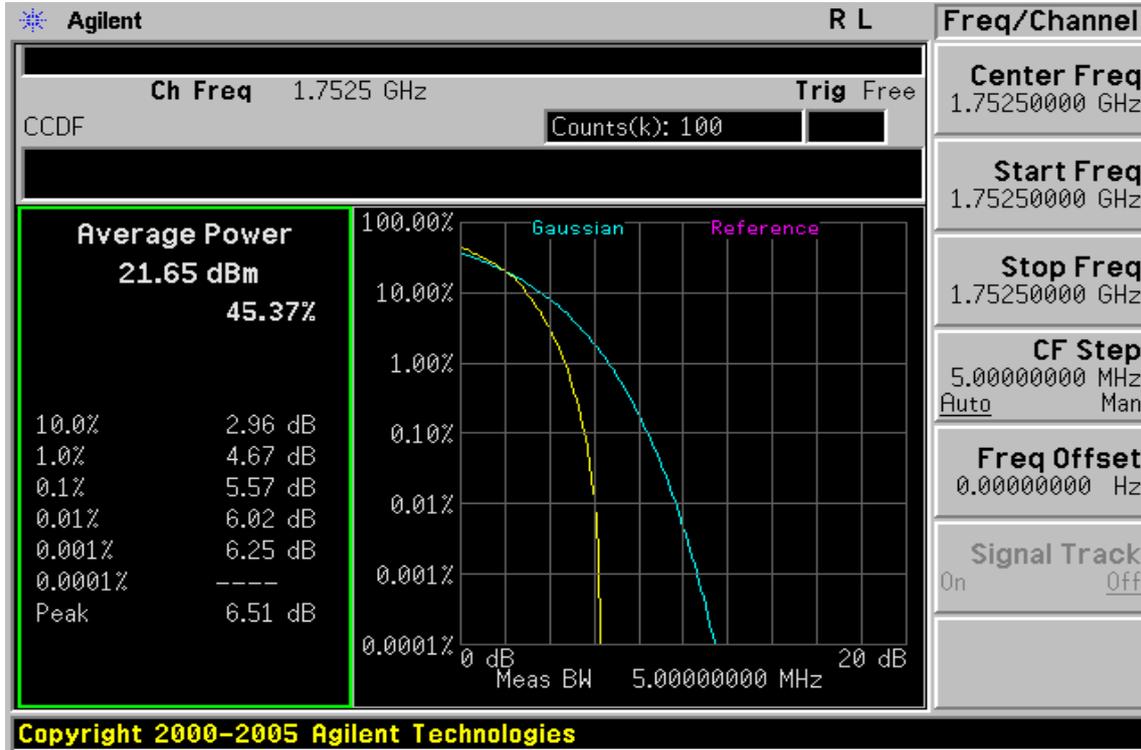
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**5MHz BW LTE-Band 4(16QAM Number: 25 Offset: 0) Channel High**



**10MHz BW LTE-Band 4(16QAM Number: 50 Offset: 0) Channel Low**



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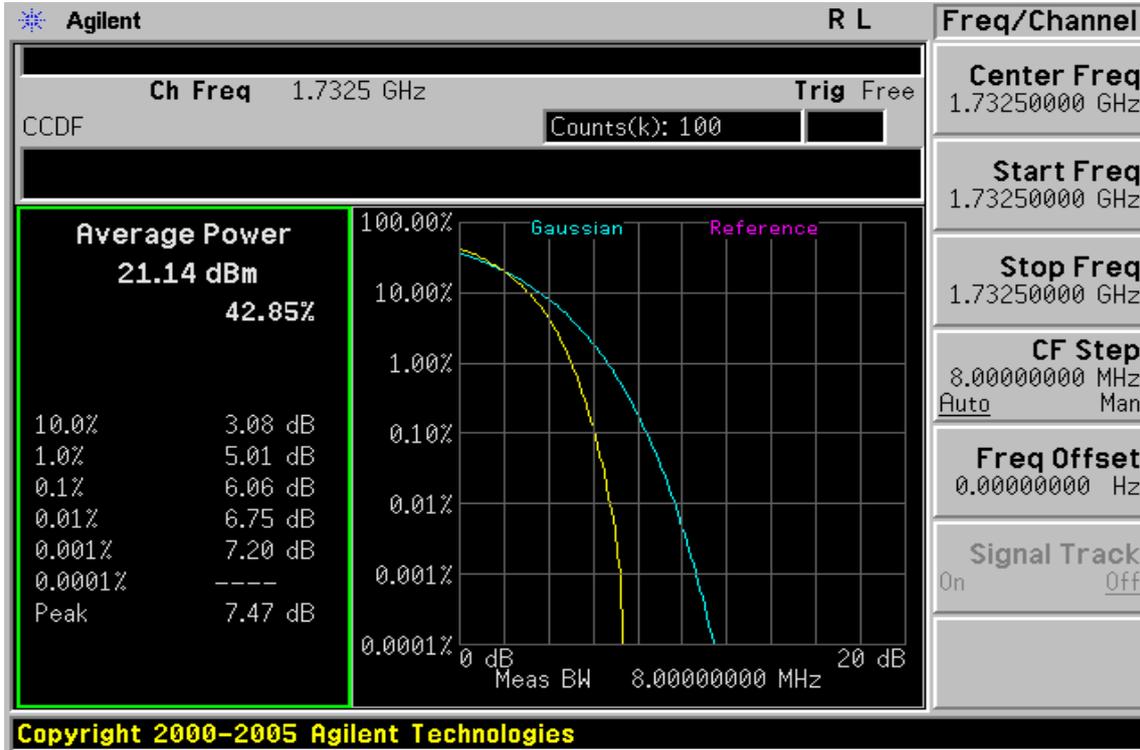
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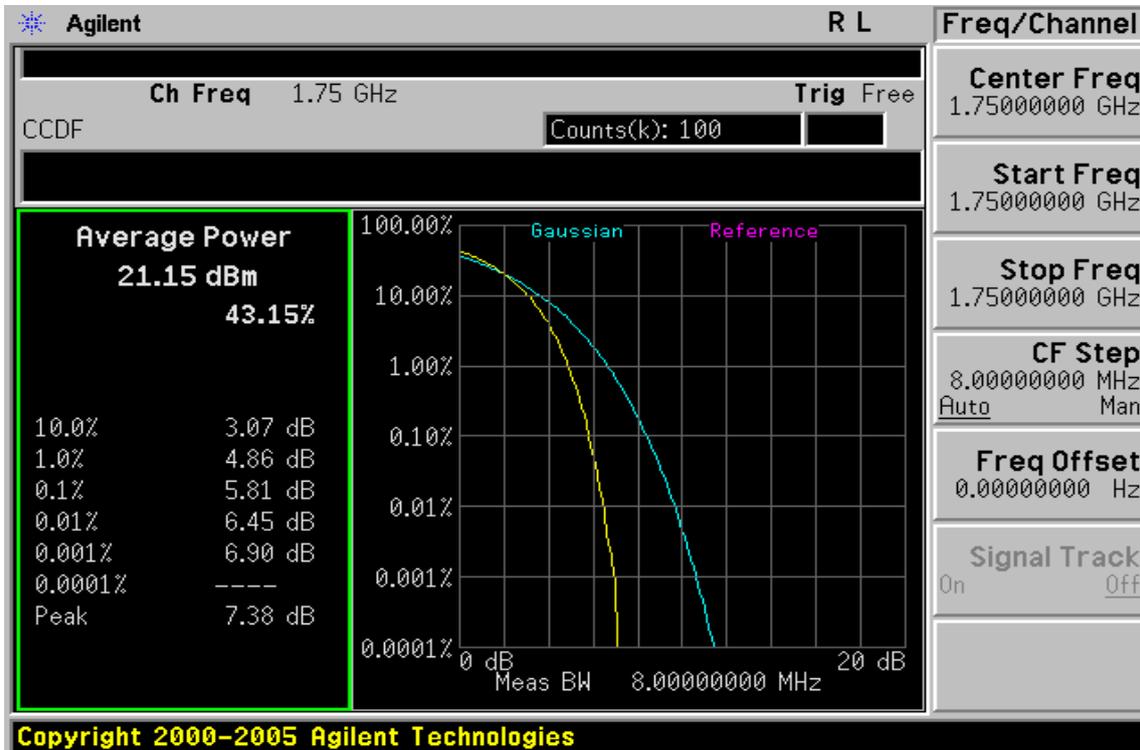
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**10MHz BW LTE-Band 4(16QAM Number: 50 Offset: 0) Channel Mid**



**10MHz BW LTE-Band 4(16QAM Number: 50 Offset: 0) Channel High**



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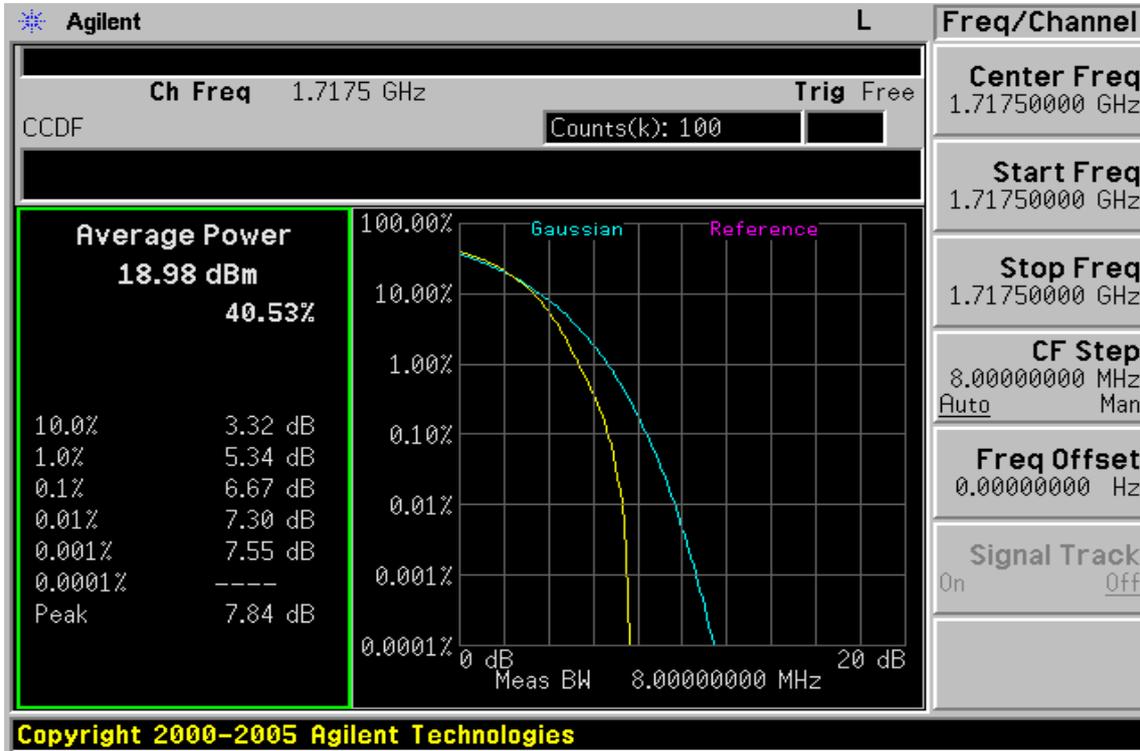
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15MHz BW LTE-Band 4(16QAM Number: 75 Offset: 0) Channel Low



15MHz BW LTE-Band 4(16QAM Number: 75 Offset: 0) Channel Mid



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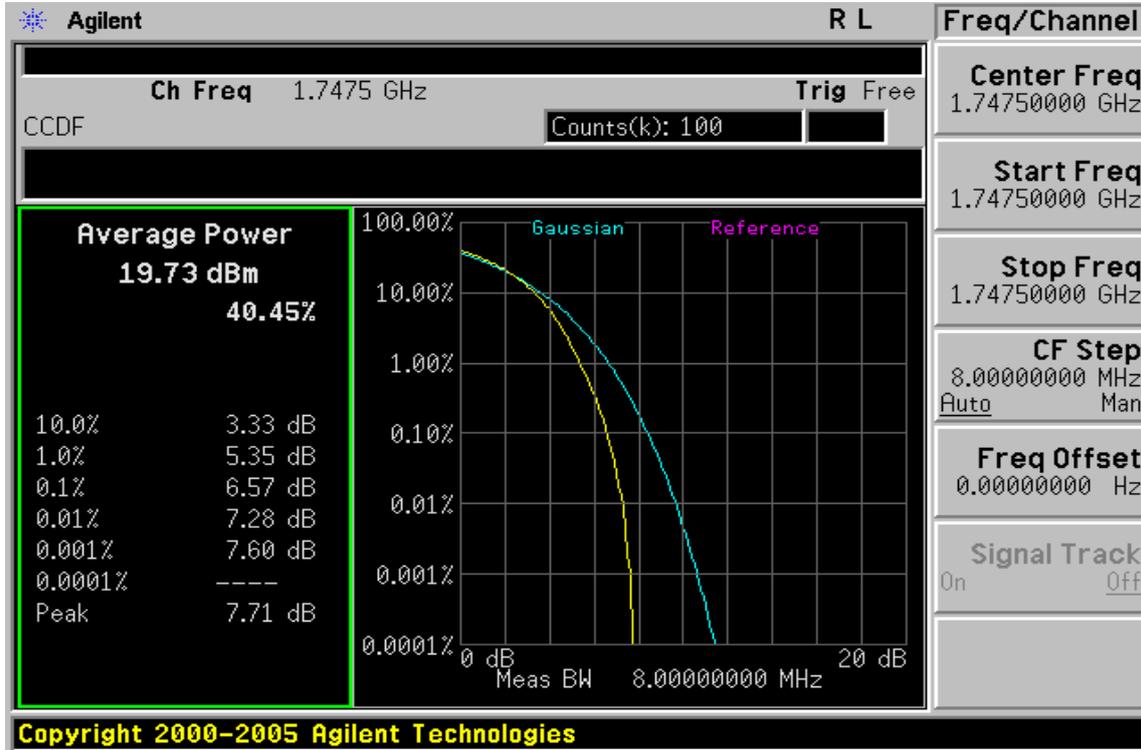
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**15MHz BW LTE-Band 4(16QAM Number: 75 Offset: 0) Channel High**



**20MHz BW LTE-Band 4(16QAM Number: 100 Offset: 0) Channel Low**



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**20MHz BW LTE-Band 4(16QAM Number: 100 Offset: 0) Channel Mid**



**20MHz BW LTE-Band 4(16QAM Number: 100 Offset: 0) Channel High**



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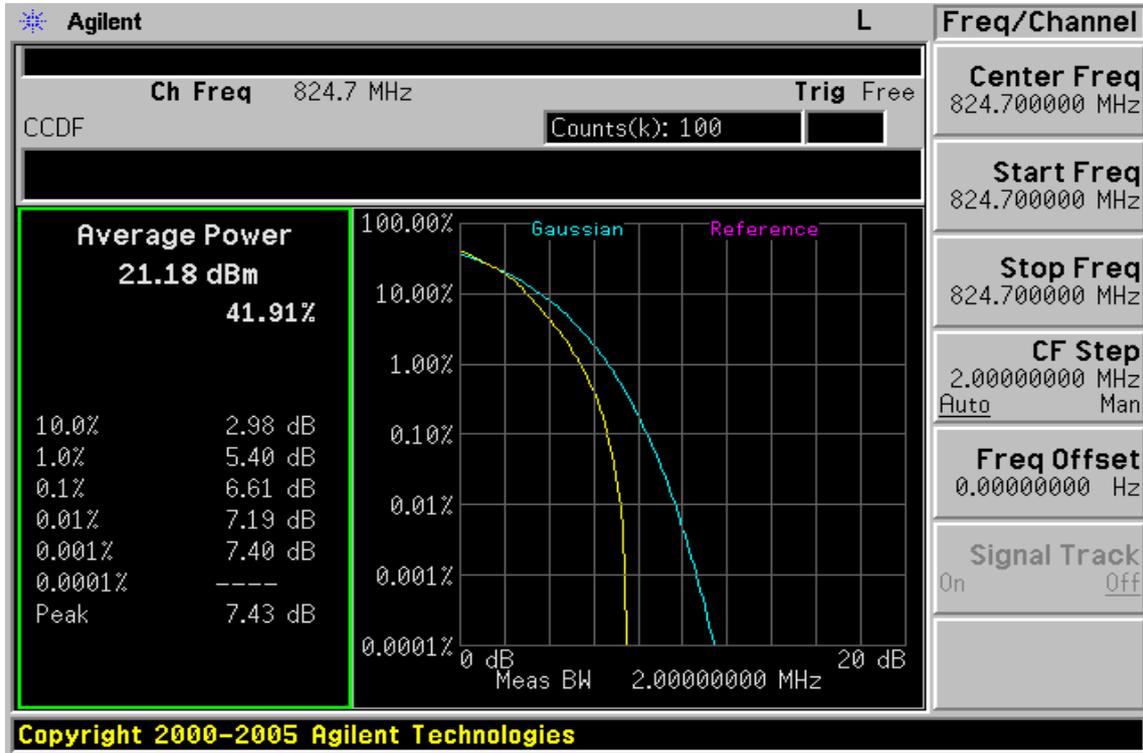
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**1.4MHz BW LTE-Band 5(16QAM Number: 6 Offset: 0) Channel Low**



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



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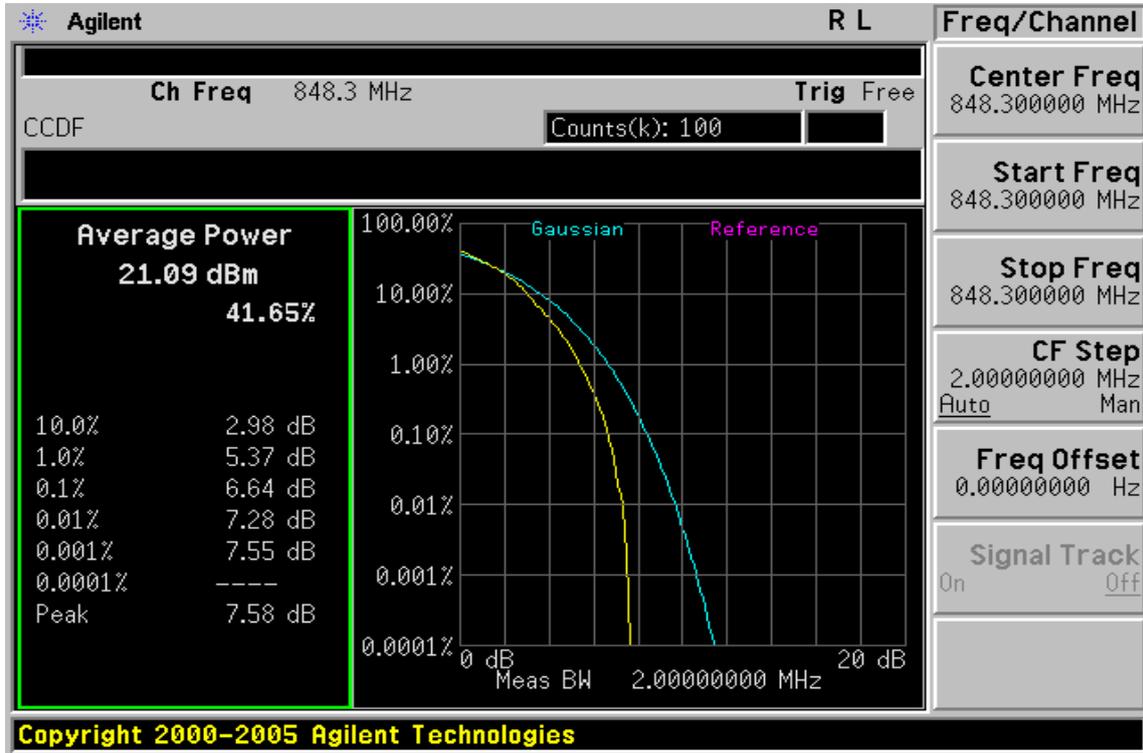
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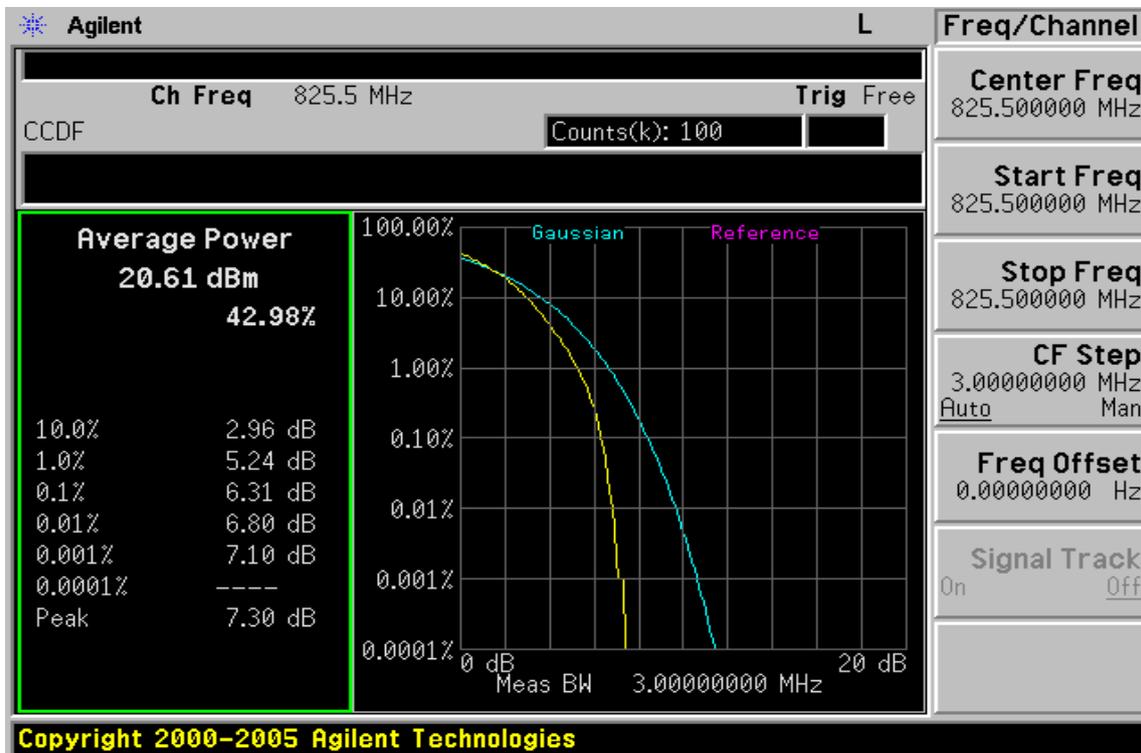
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**1.4MHz BW LTE-Band 5(16QAM Number: 6 Offset: 0) Channel High**



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



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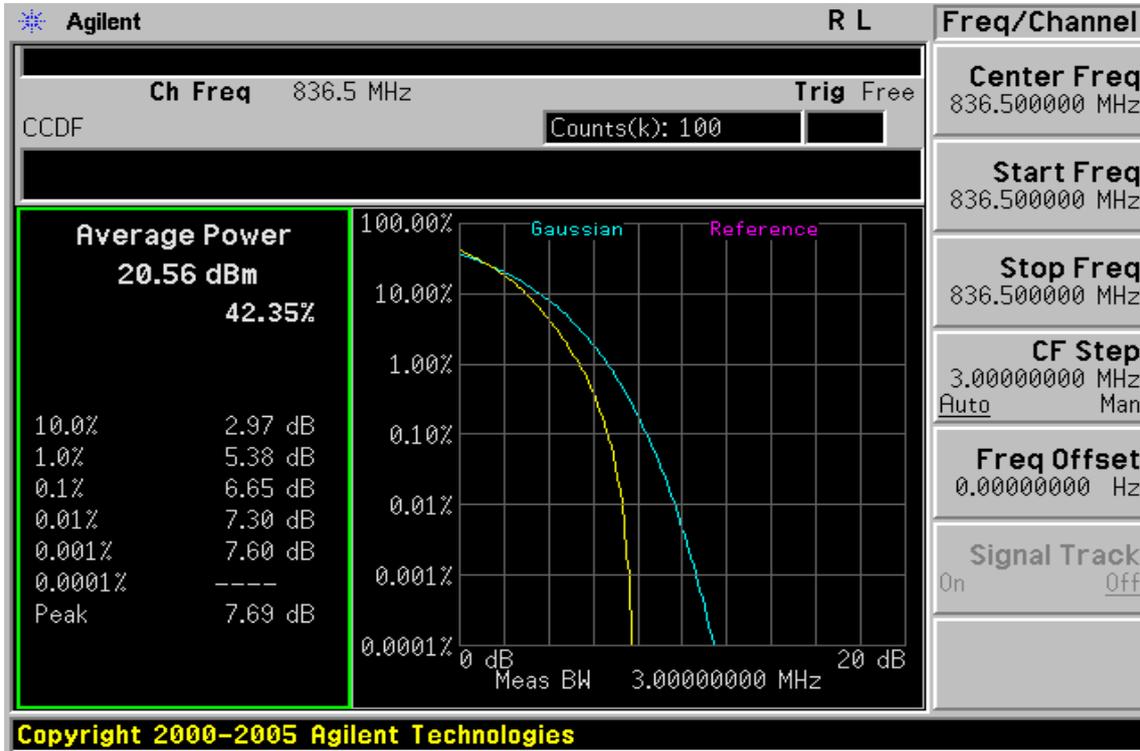
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**3MHz BW LTE-Band 5(16QAM Number: 15 Offset: 0) Channel Mid**



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



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



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



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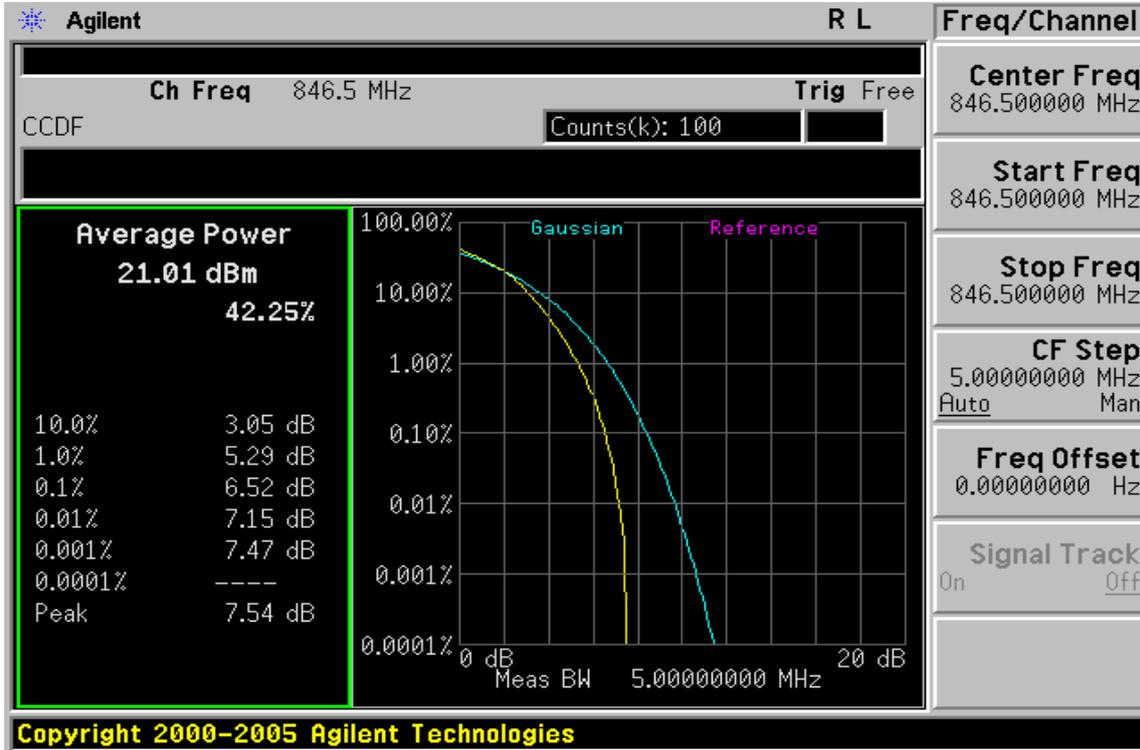
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**5MHz BW LTE-Band 5(16QAM Number: 25 Offset: 0) Channel High**



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



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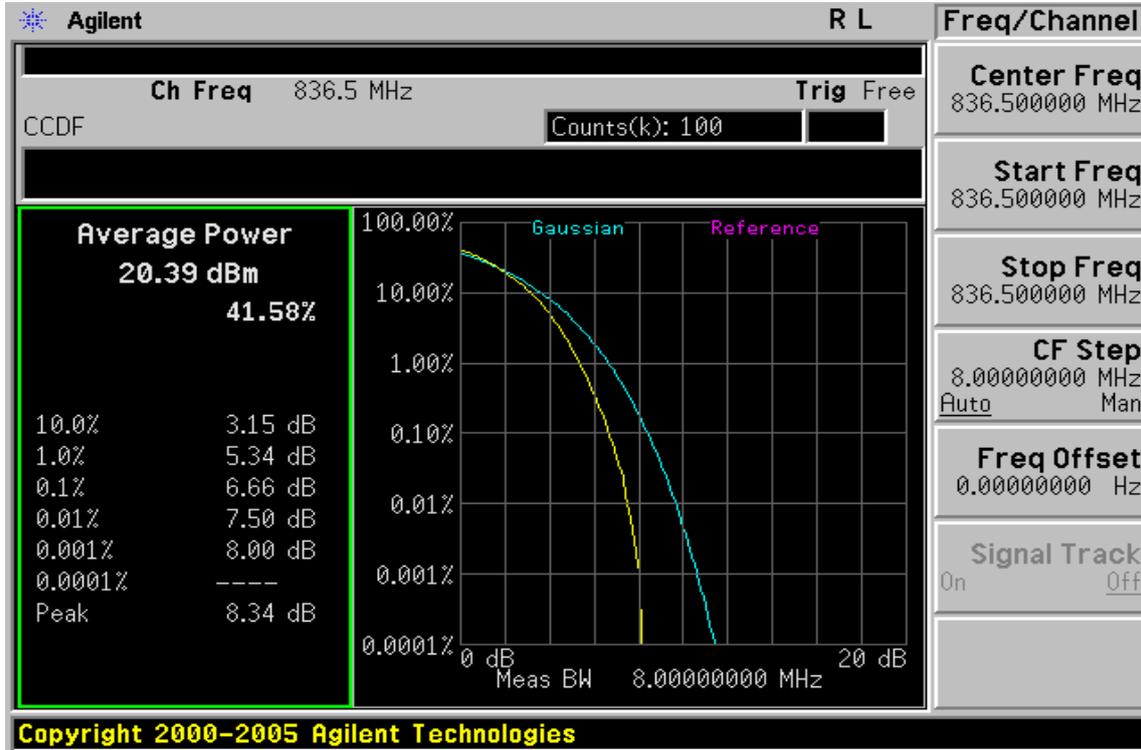
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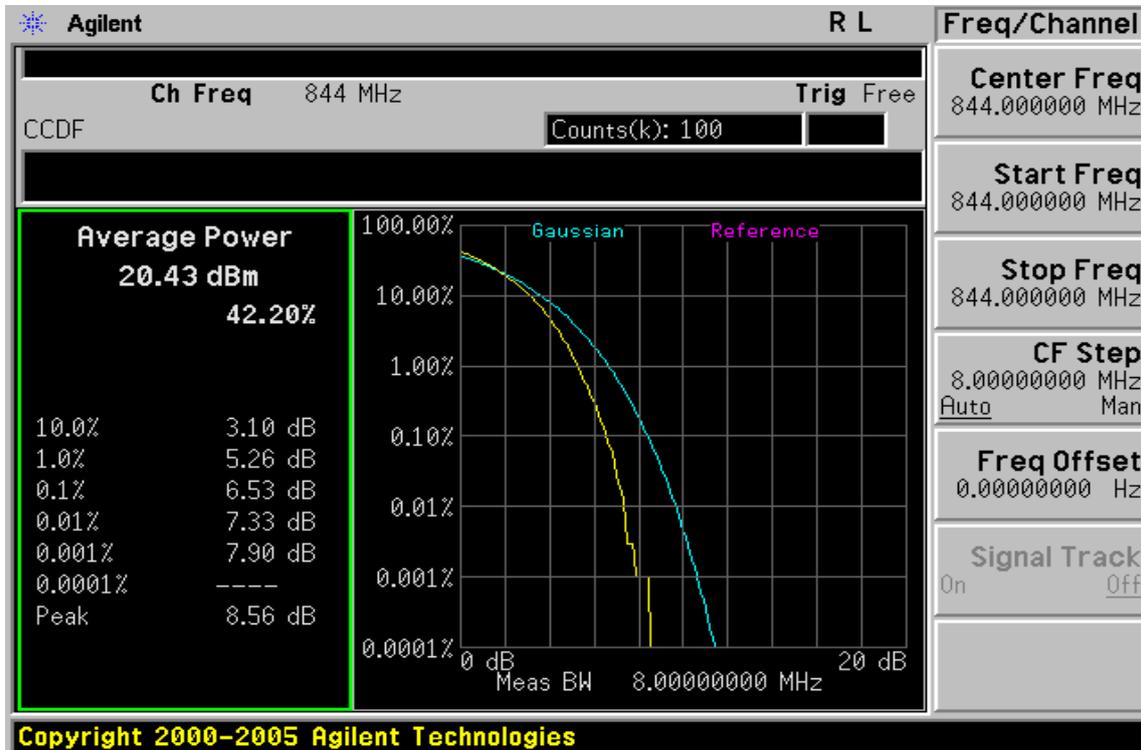
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**10MHz BW LTE-Band 5(16QAM Number: 50 Offset: 0) Channel Mid**



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



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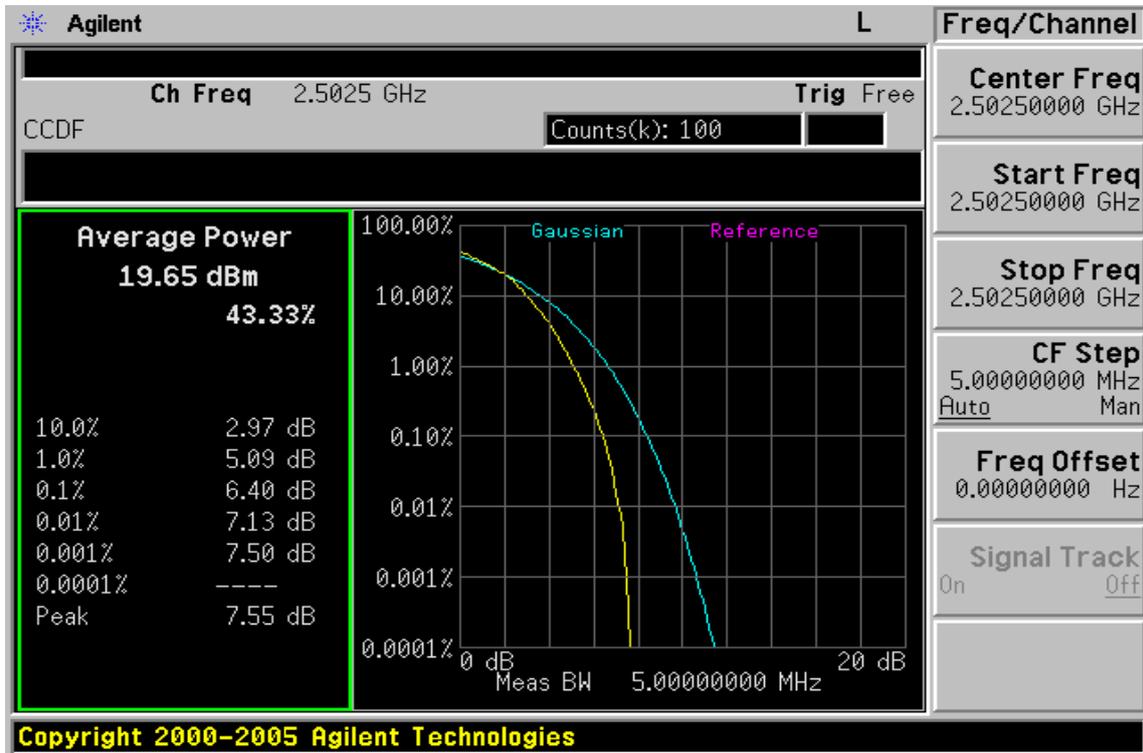
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**5MHz BW LTE-Band 7(16QAM Number: 25 Offset: 0) Channel Low**



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



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



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



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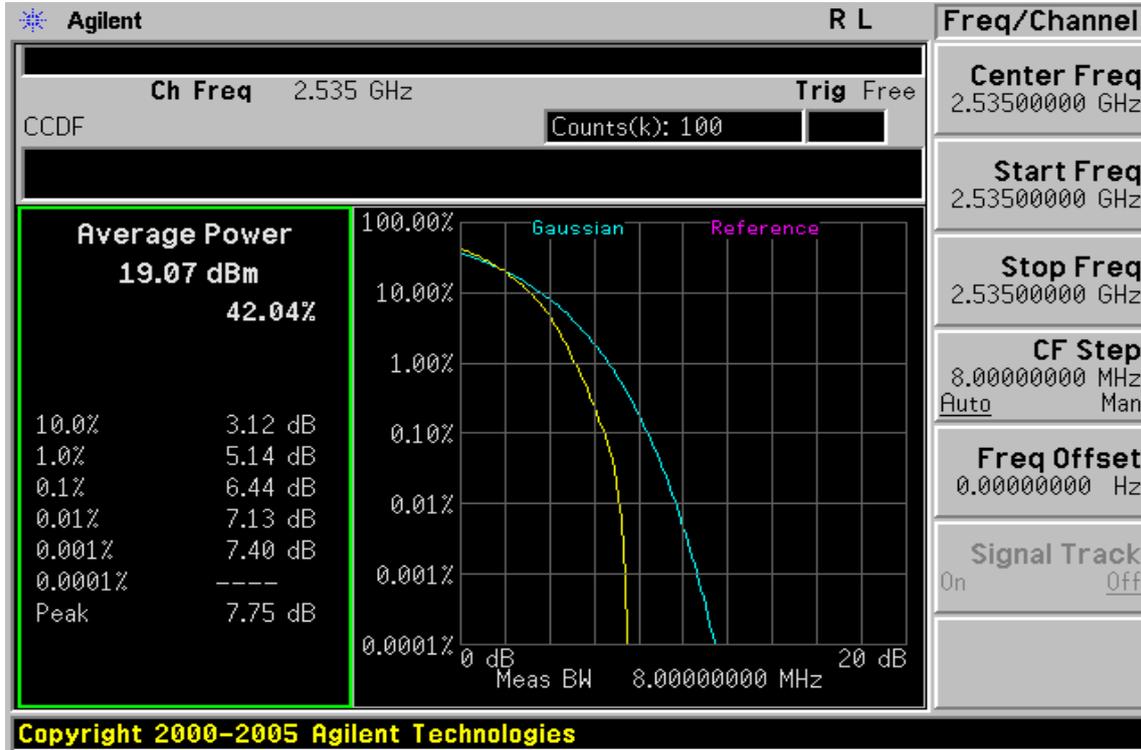
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**10MHz BW LTE-Band 7(16QAM Number: 50 Offset: 0) Channel Mid**



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



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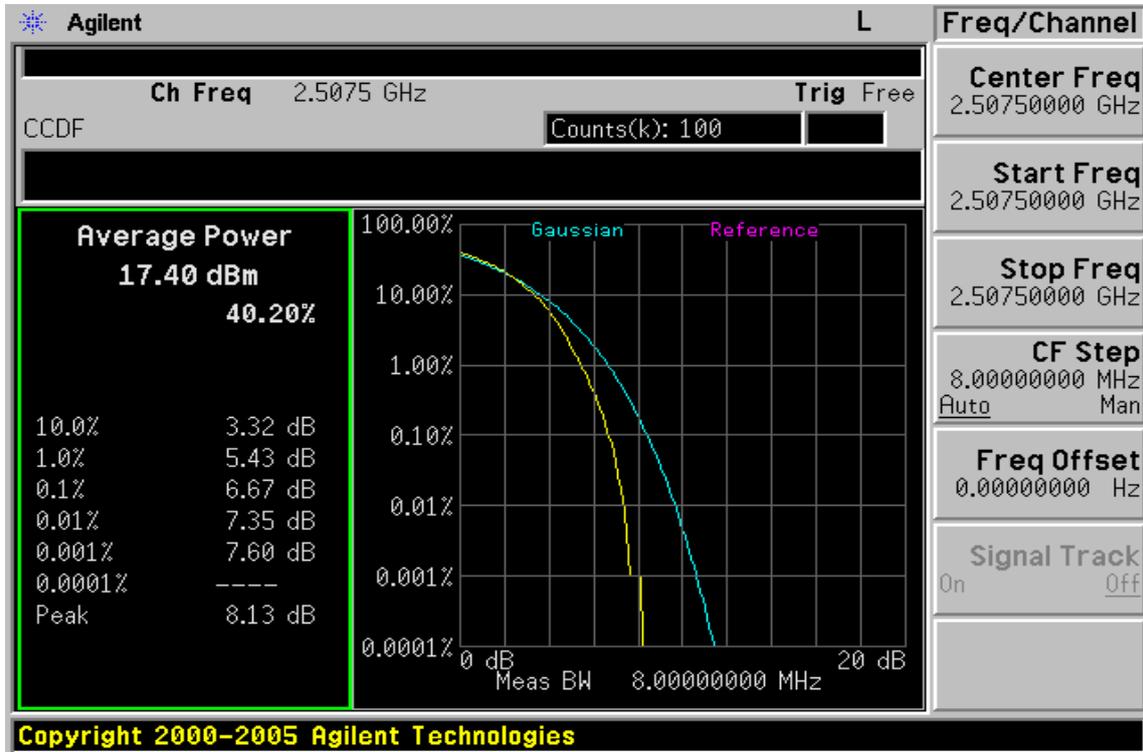
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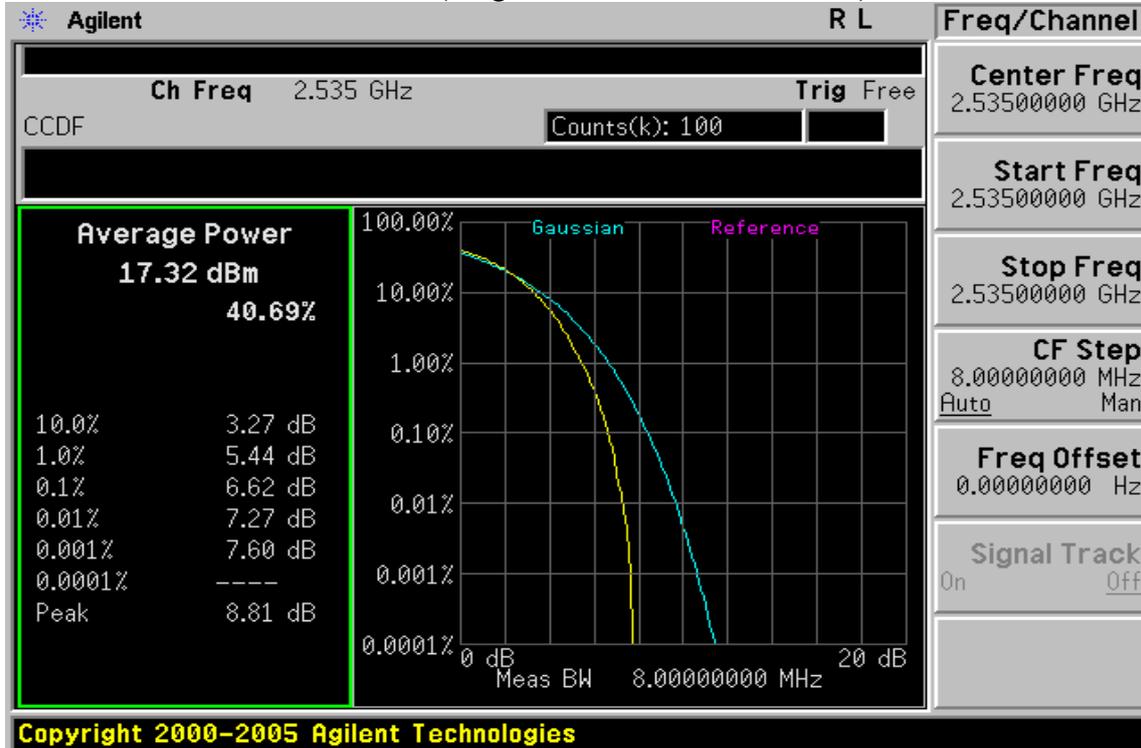
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15MHz BW LTE-Band 7(16QAM Number: 75 Offset: 0) Channel Low



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



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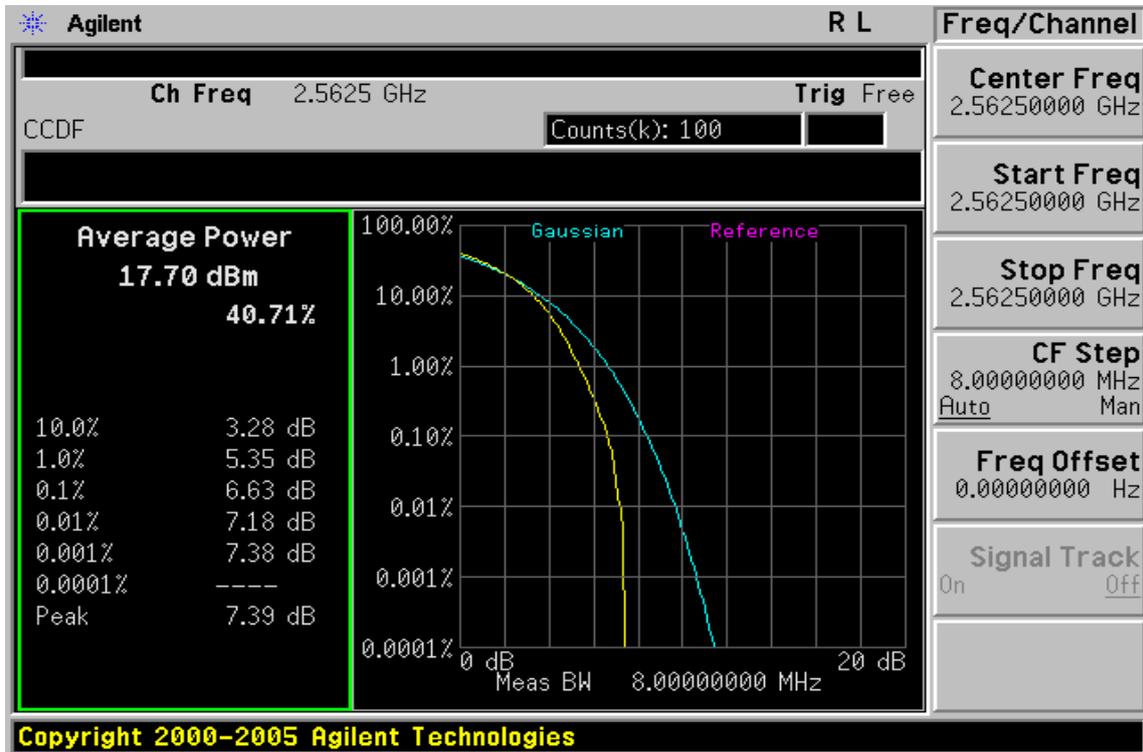
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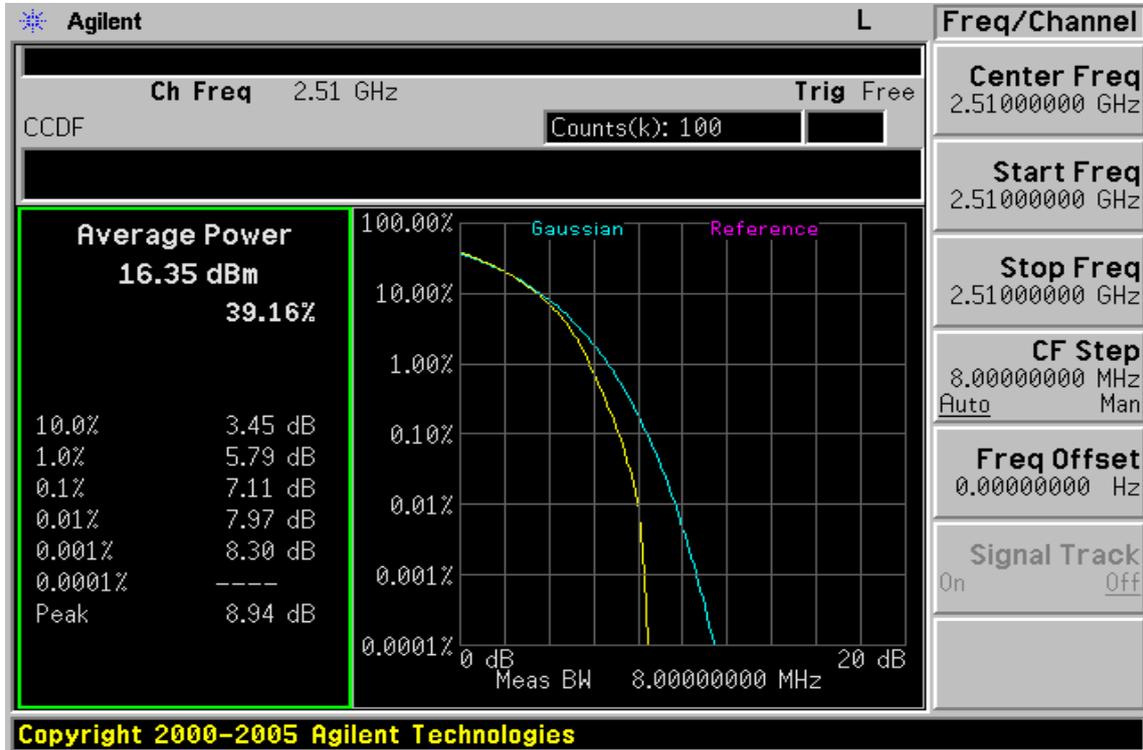
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**15MHz BW LTE-Band 7(16QAM Number: 75 Offset: 0) Channel High**



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



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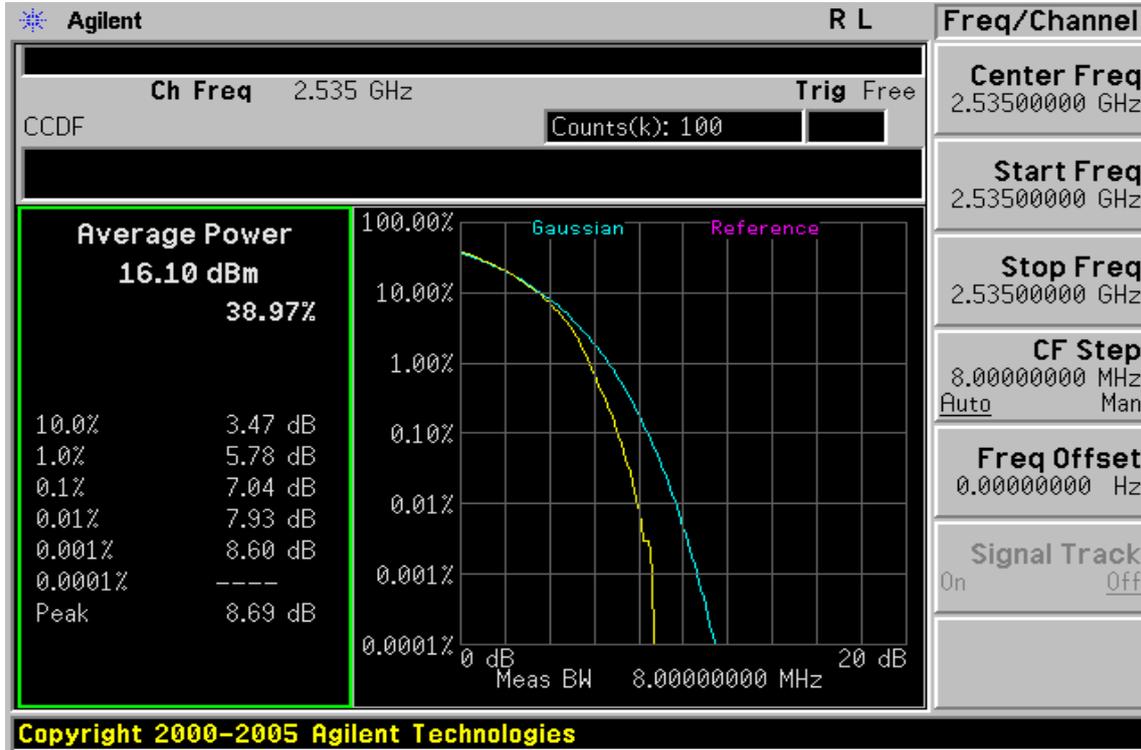
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**20MHz BW LTE-Band 7(16QAM Number: 100 Offset: 0) Channel Mid**



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



~ End of Report ~

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