

9. OUT OF BAND EMISSION AT ANTENNA TERMINALS

9.1. Standard Applicable:

According to FCC §2.1051.

FCC §22.917(a), §24.238(a), 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).

100KHz Bandedge:

FCC §27.53(m) (4) (6)

For mobile digital stations, the attenuation factor shall be not less than $43 + 10 \log$ (P) dB at the channel edge and $55 + 10 \log$ (P) dB at 5.5 megahertz from the channel edges. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on 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 MHz 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. 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 MHz or 1 percent of emission bandwidth, as specified). 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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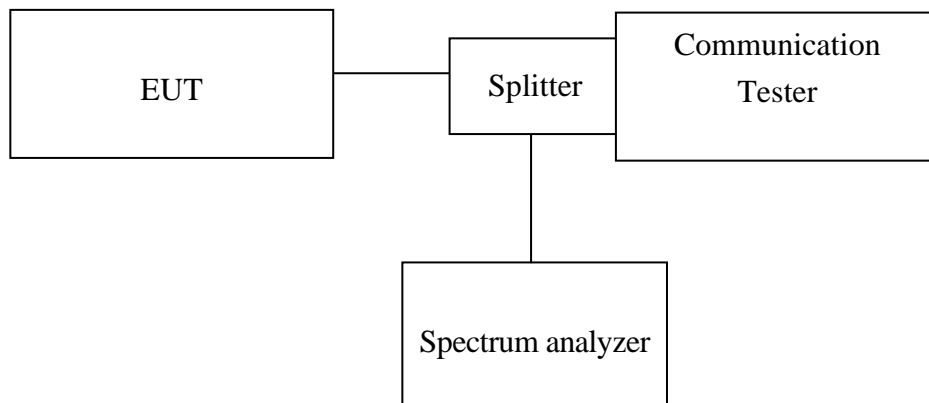
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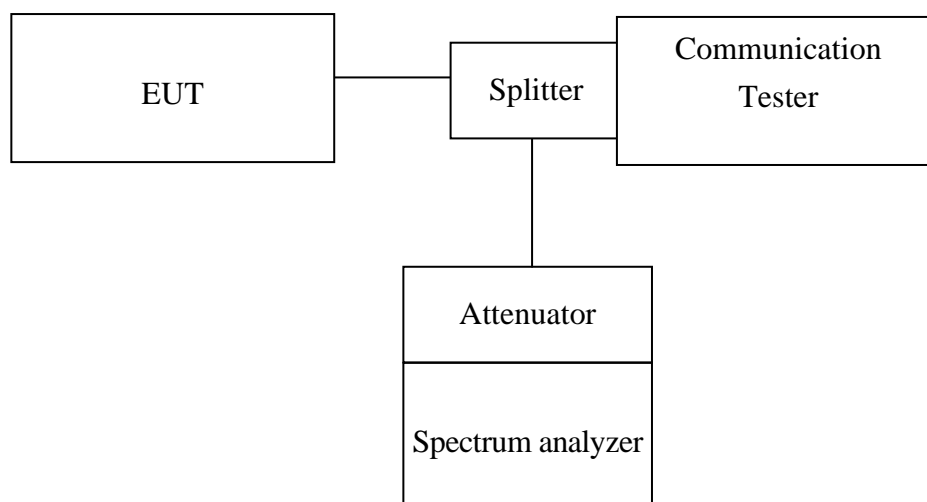
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9.2. Test SET-UP:

Out of band emission



Band Edge



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9.3. Measurement Procedure:

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.

For the out of band: Set the RBW, VBW = 1MHz, Start=30MHz, Stop= 10 th harmonic. Limit = -13dBm.

Band Edge Requirements: In the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 1 percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to measure the out of band Emissions. Limit, -13dBm.

Conducted Emission:

- 1、 To connect Antenna Port of EUT to Spectrum.
- 2、 Set RBW = 1MHz & VBW = 1MHz on Spectrum.
- 3、 Sweep the frequency to determine spurious emission as seen on spectrum from span of 30 to 1G, 1G to 2.5G, 2.5G to 7.5G, 7.5G to 10G ,10G to 15G and 15G to 20GHz
- 4、 Via Software, combine 6 spans of frequency range into one plot

9.4. Measurement Equipment Used:

Refer to section 2.4 in this report

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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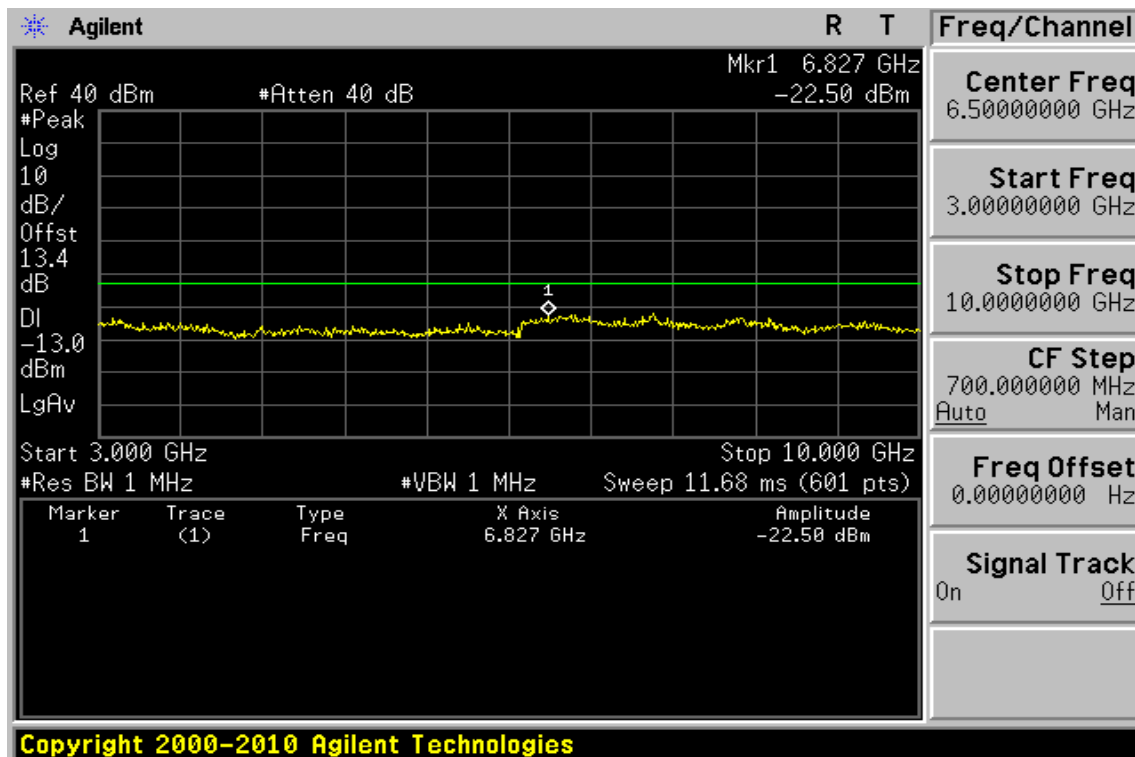
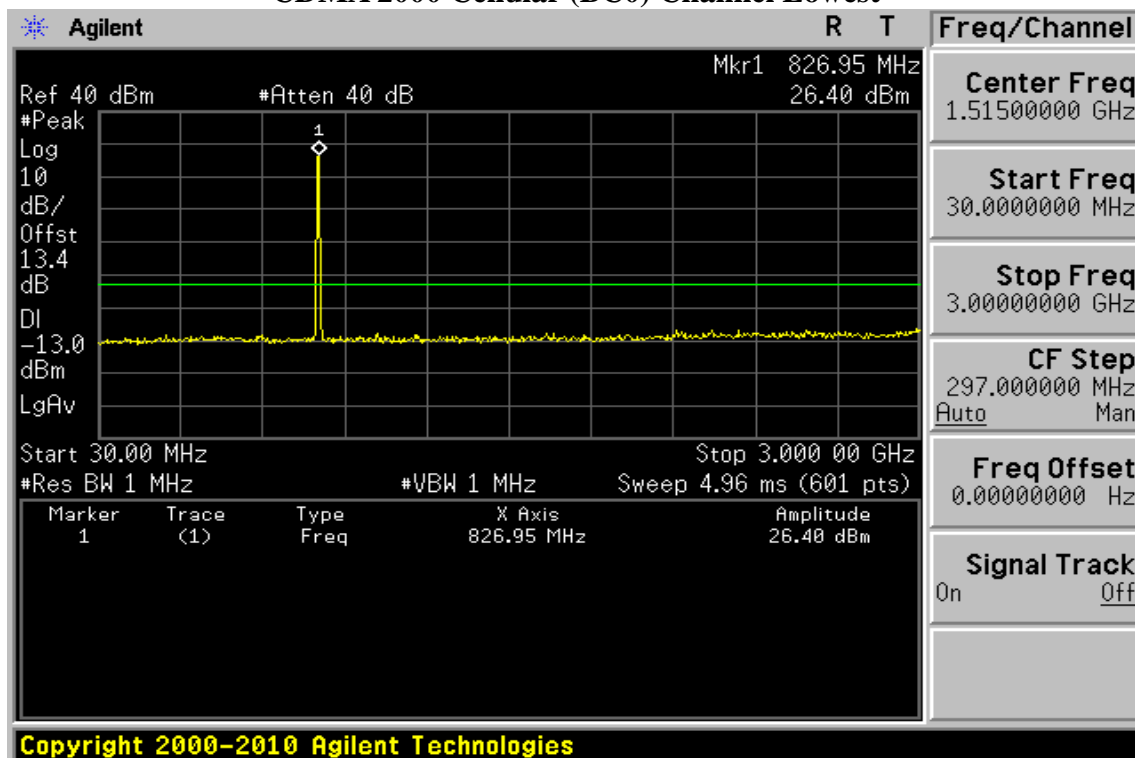
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Figure 9-1: Out of Band emission at antenna terminals –
CDMA 2000 Cellular (BC0) Channel Lowest



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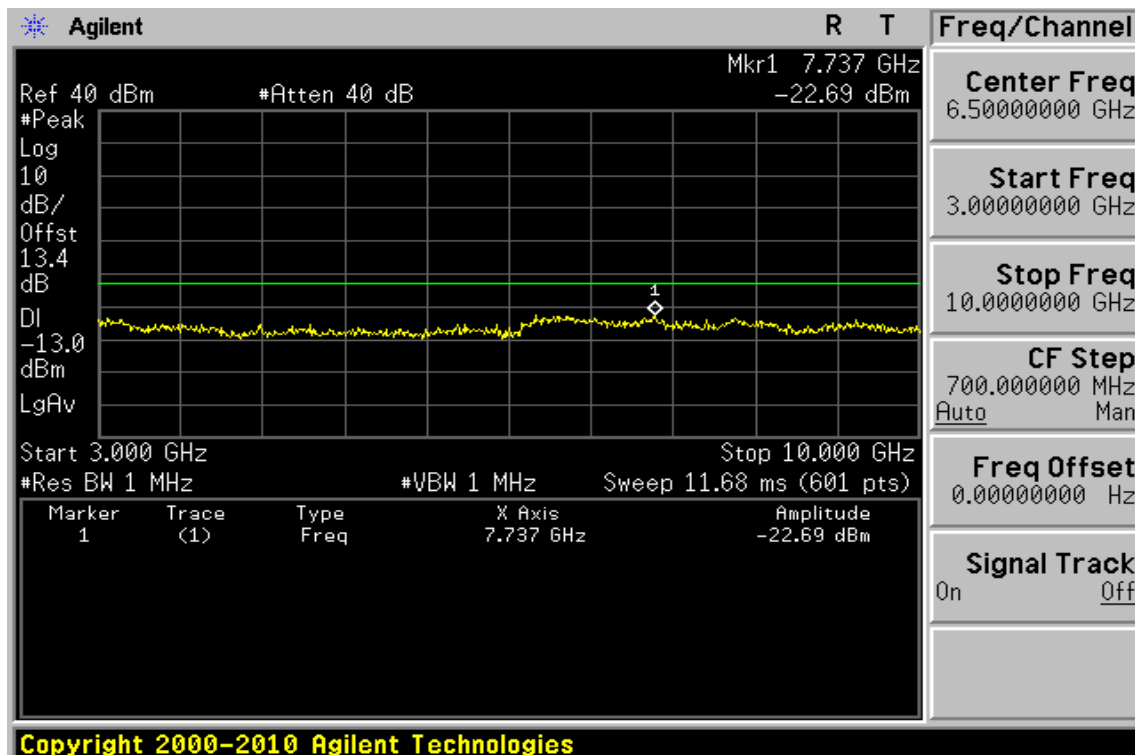
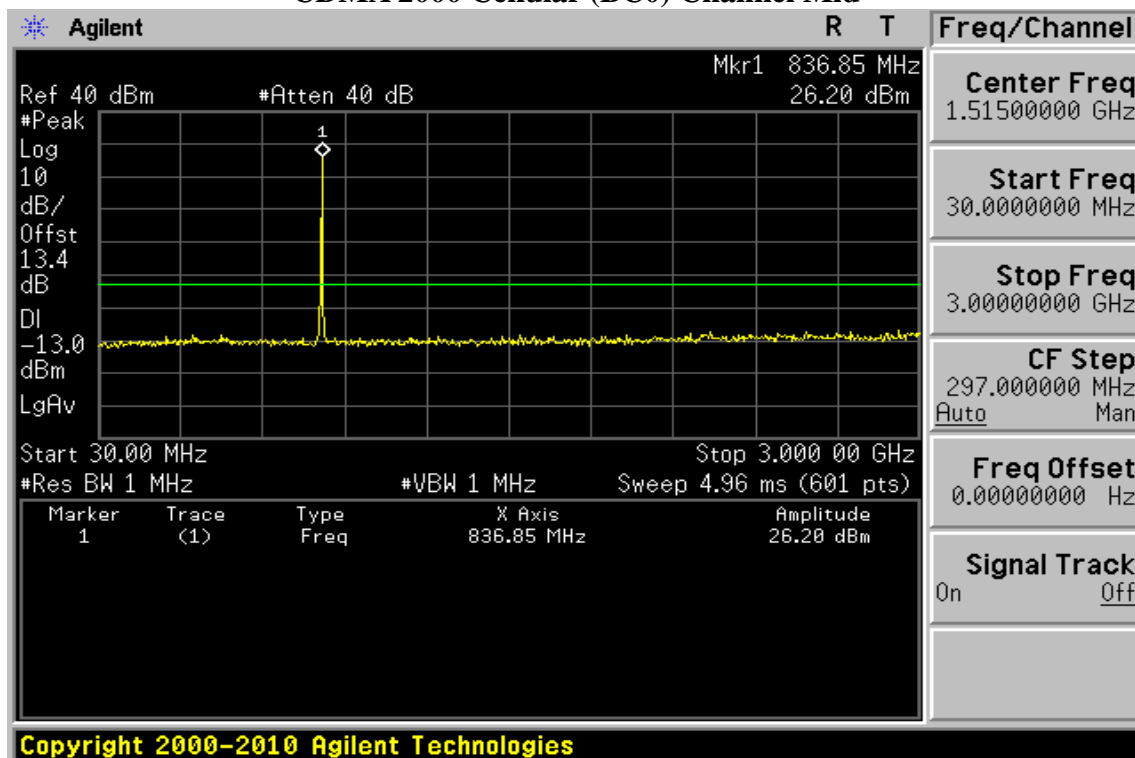
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**Figure 9-2: Out of Band emission at antenna terminals –
CDMA 2000 Cellular (BC0) Channel Mid**



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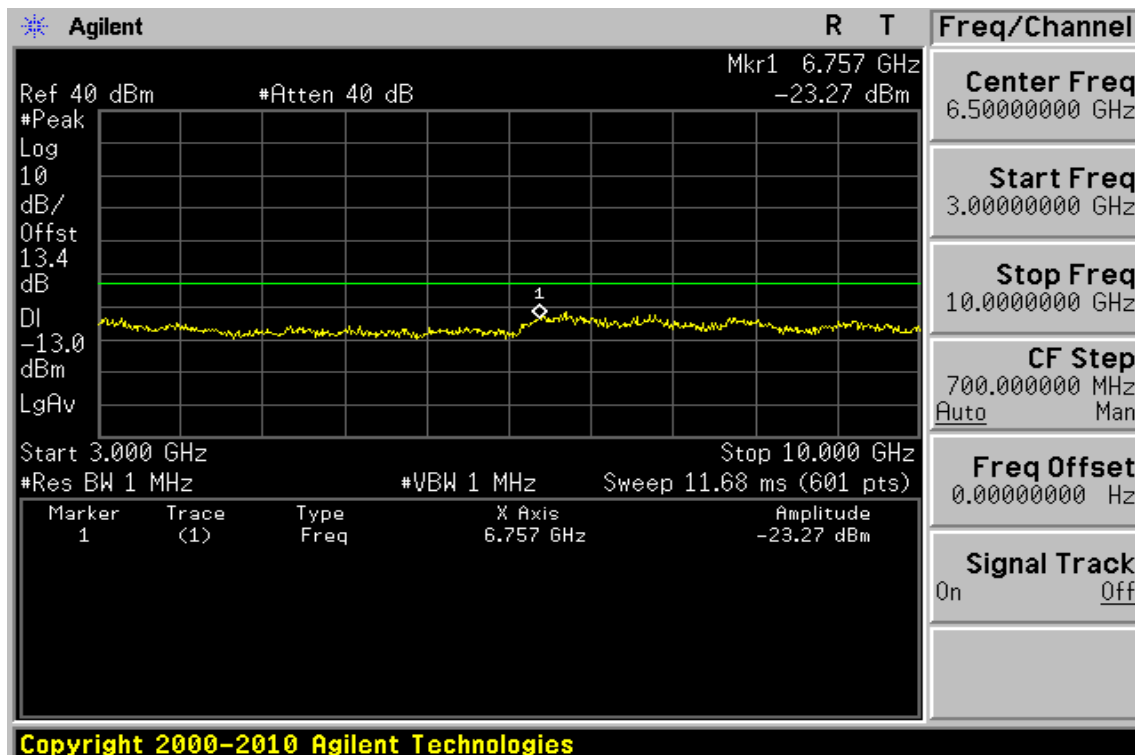
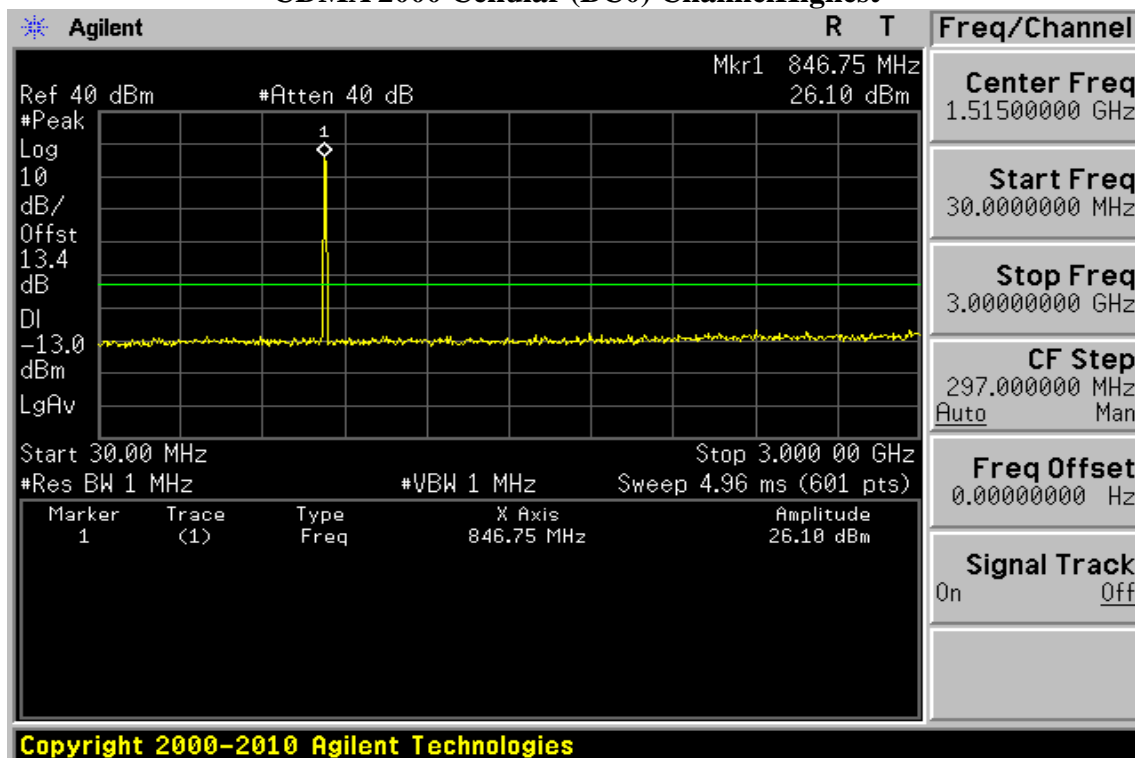
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Figure 9-3: Out of Band emission at antenna terminals –
CDMA 2000 Cellular (BC0) ChannelHighest



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Figure 9-4: Band edge emission at antenna terminals –
CDMA 2000 Cellular (BC0) Channel Lowest

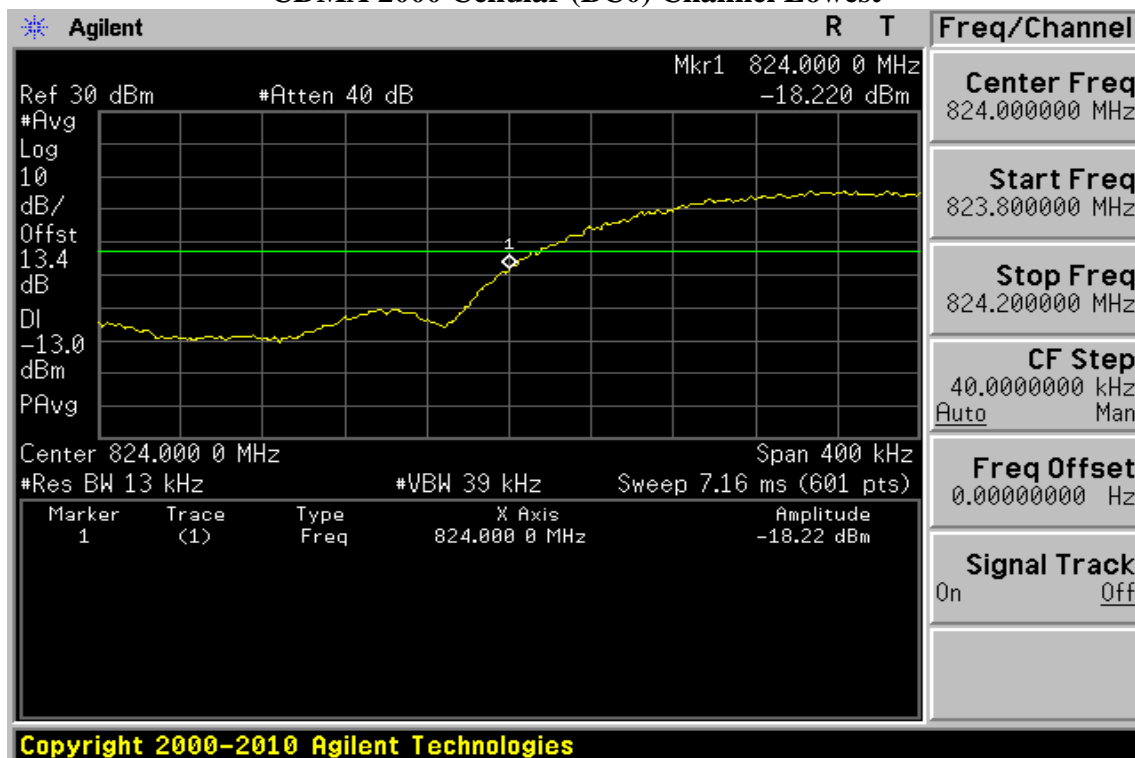


Figure 9-5: Band edge emission at antenna terminals –
CDMA 2000 Cellular (BC0) Channel Highest



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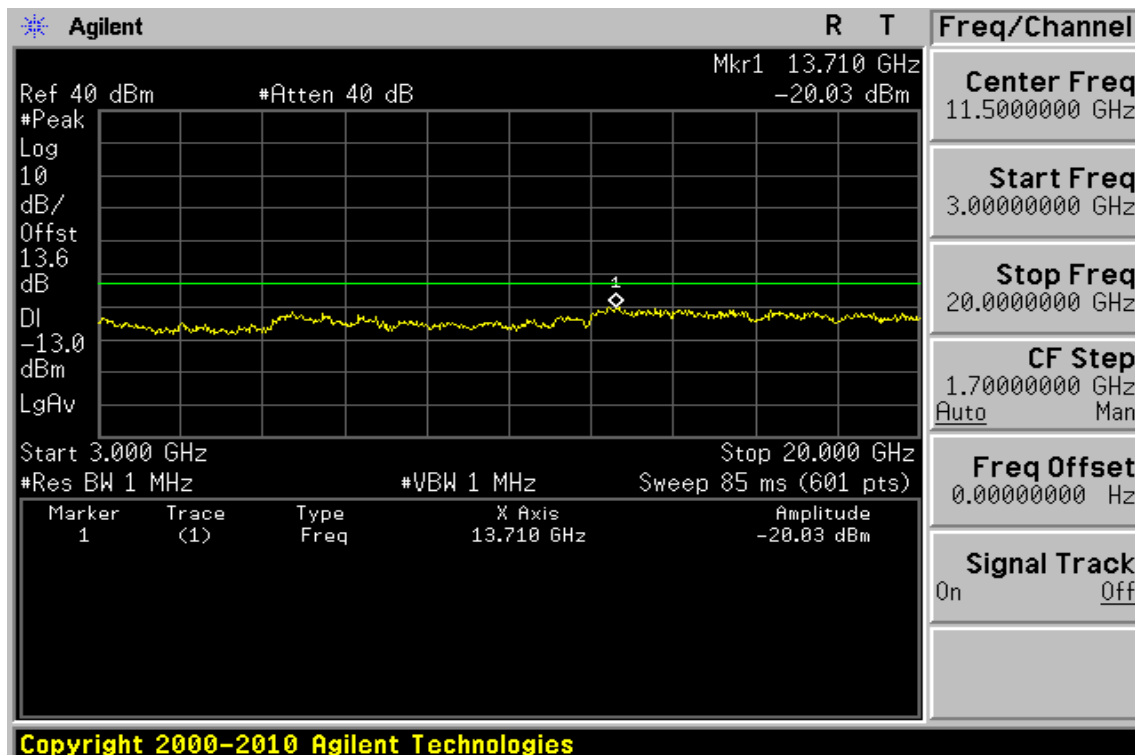
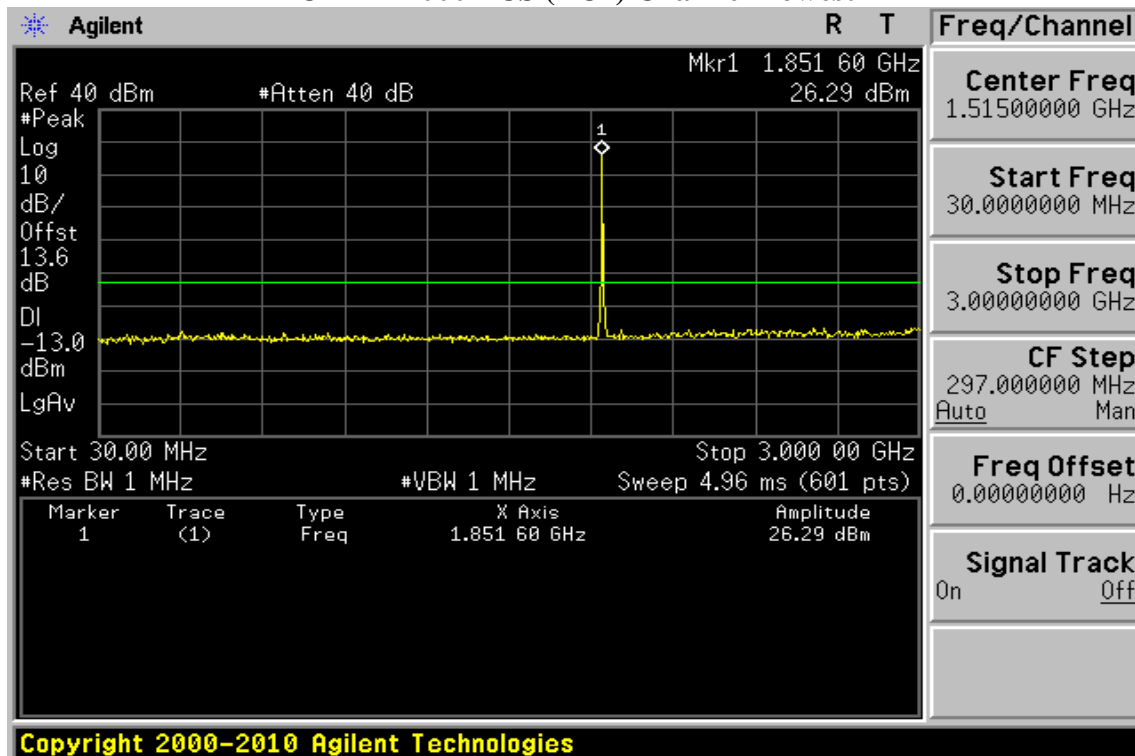
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**Figure 9-6: Out of Band emission at antenna terminals –
CDMA 2000 PCS (BC1) Channel Lowest**



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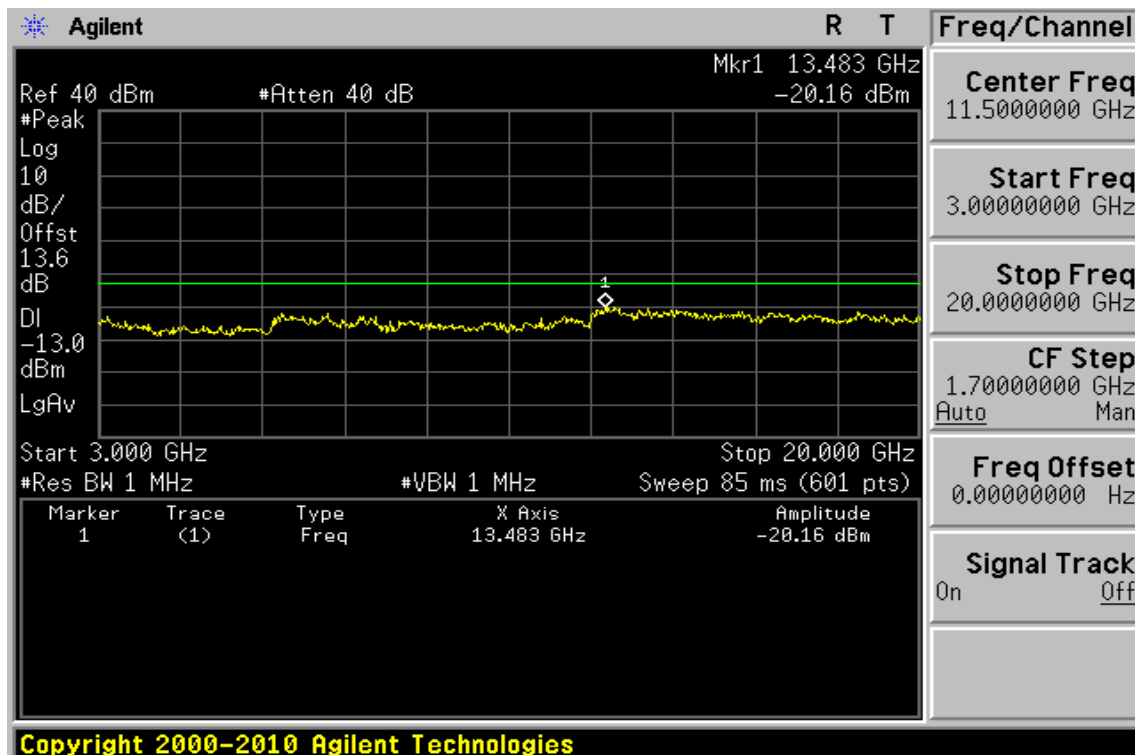
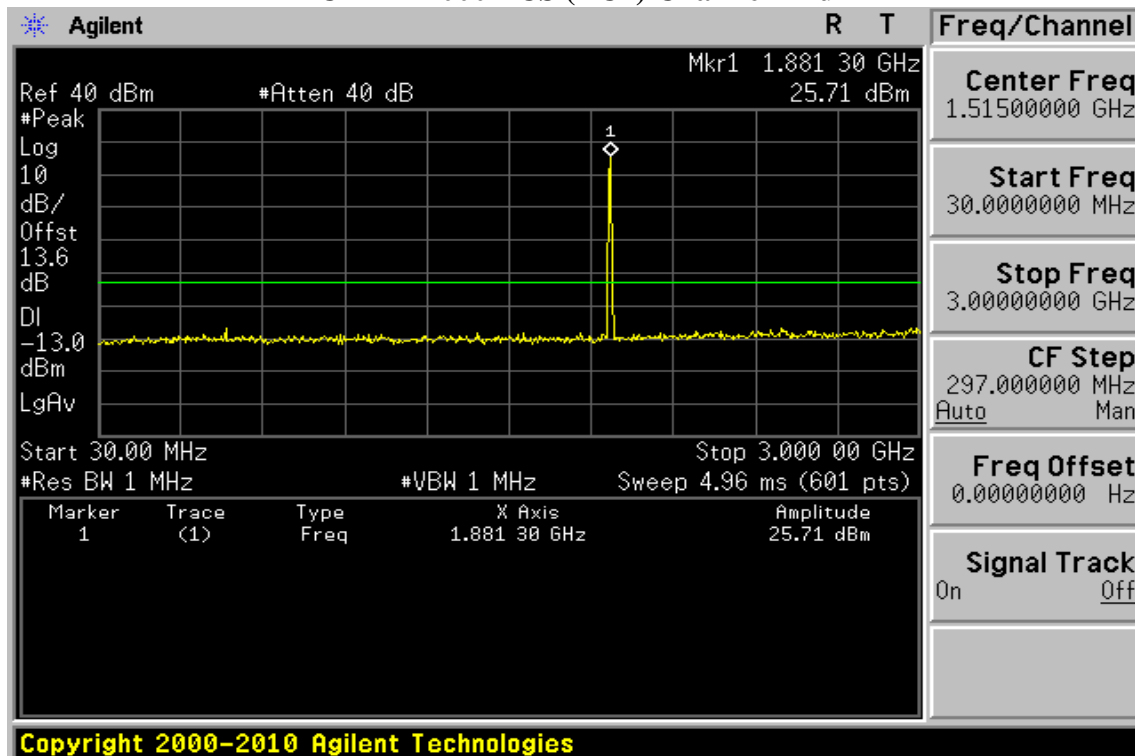
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Figure 9-7: Out of Band emission at antenna terminals –
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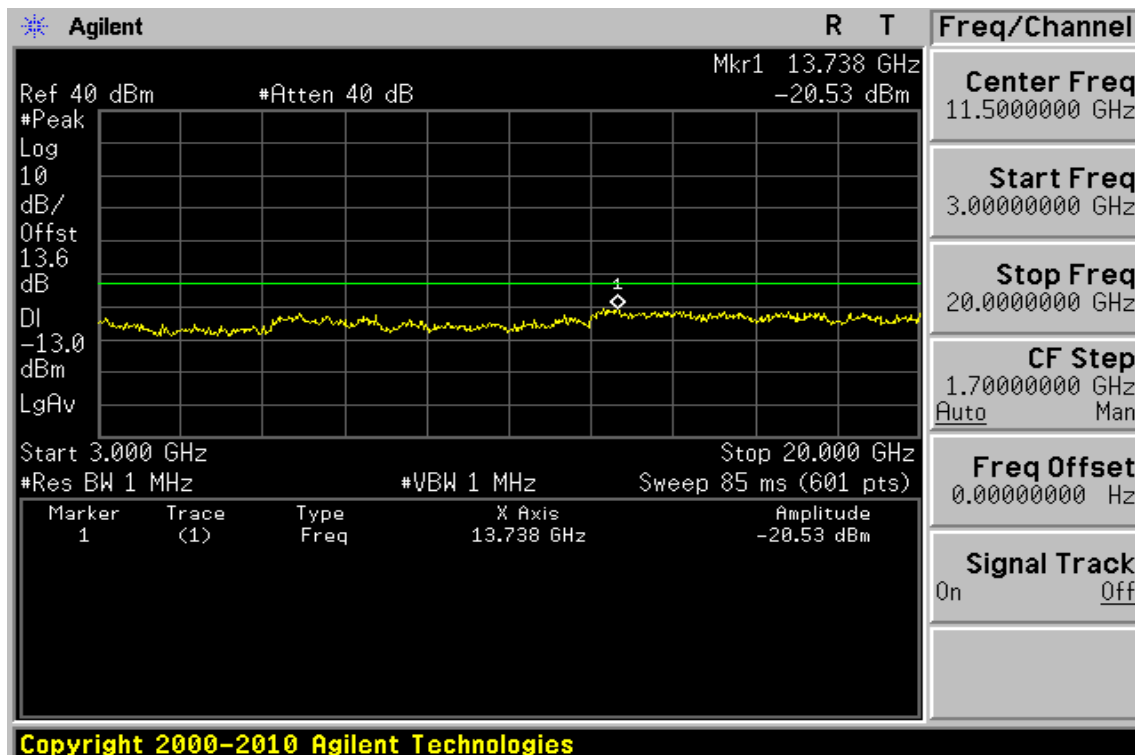
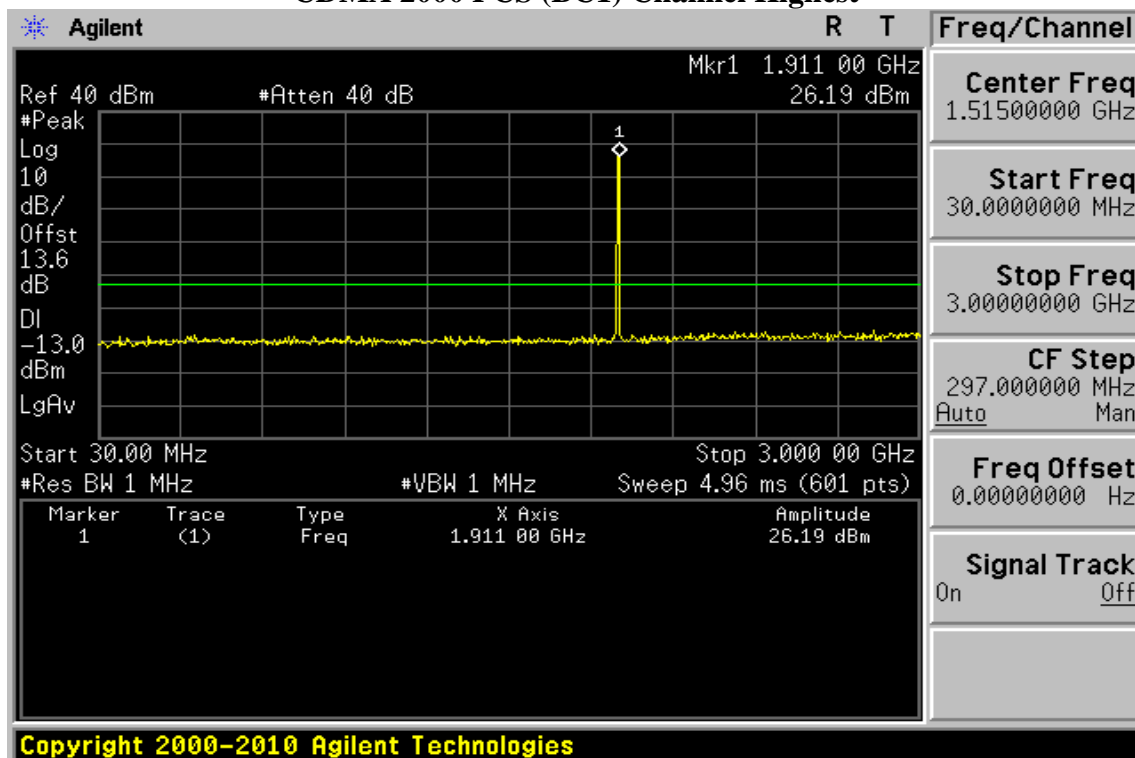
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**Figure 9-8: Out of Band emission at antenna terminals –
CDMA 2000 PCS (BC1) Channel Highest**



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Figure 9-9: Band edge emission at antenna terminals –
CDMA 2000 PCS (BC1) Channel Lowest

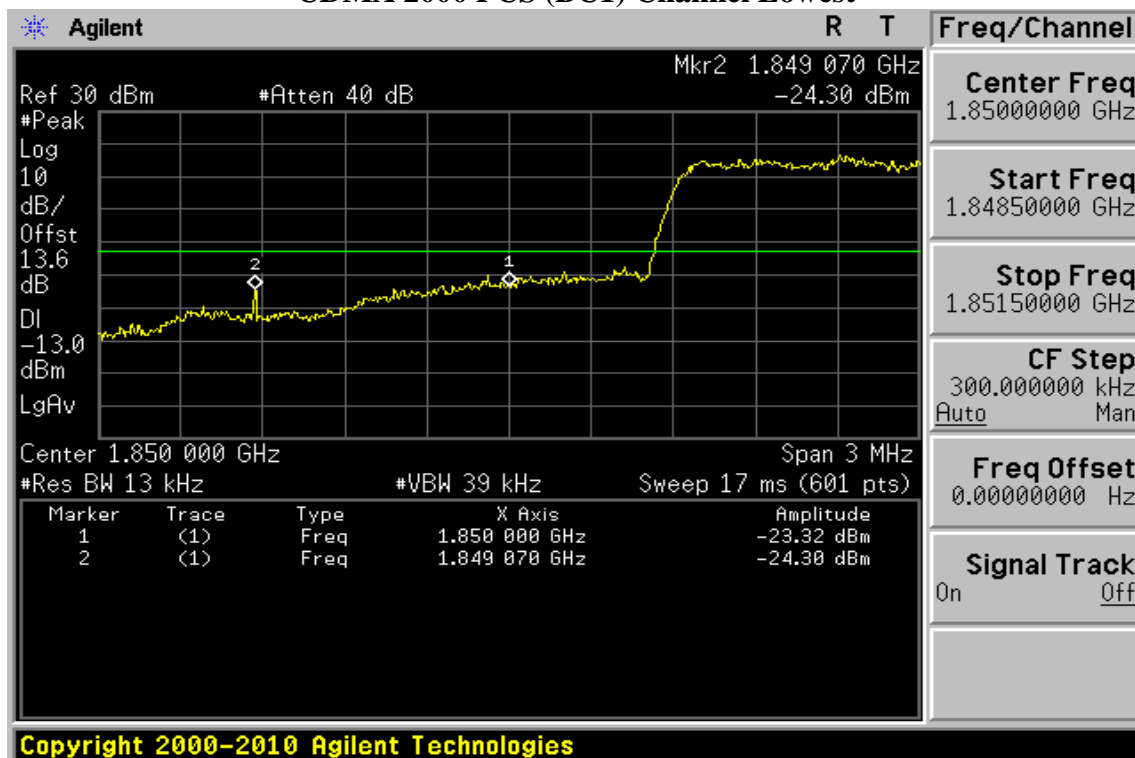
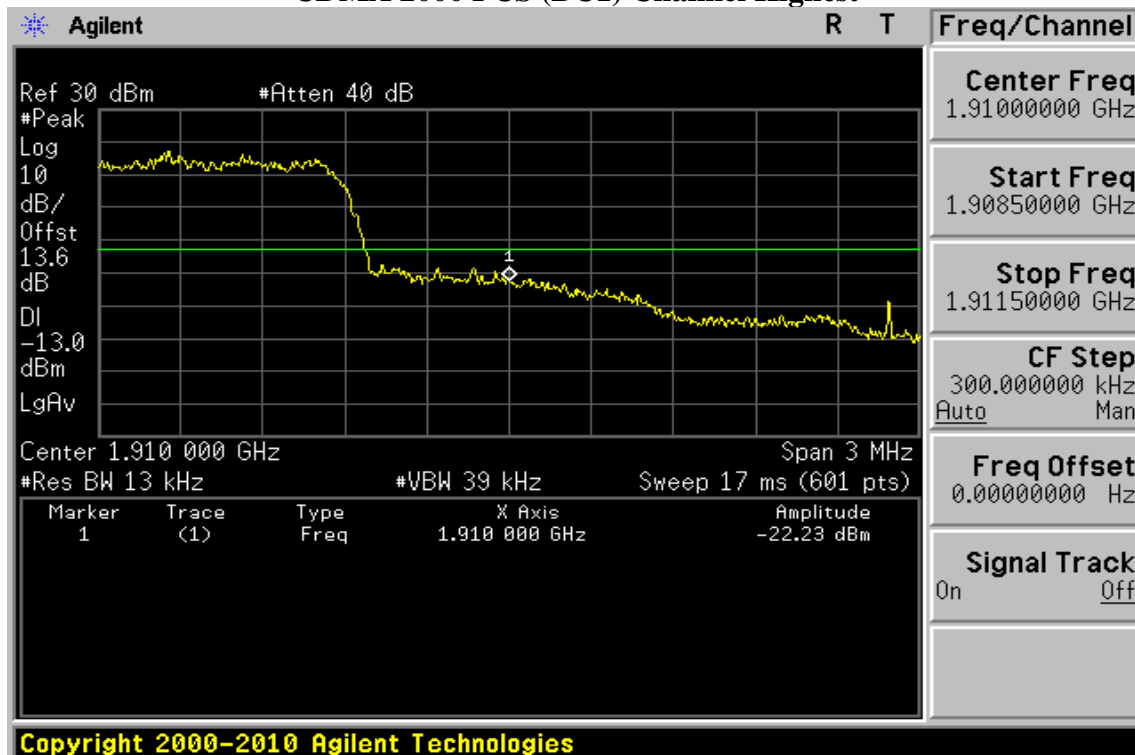


Figure 9-10: Band edge emission at antenna terminals –
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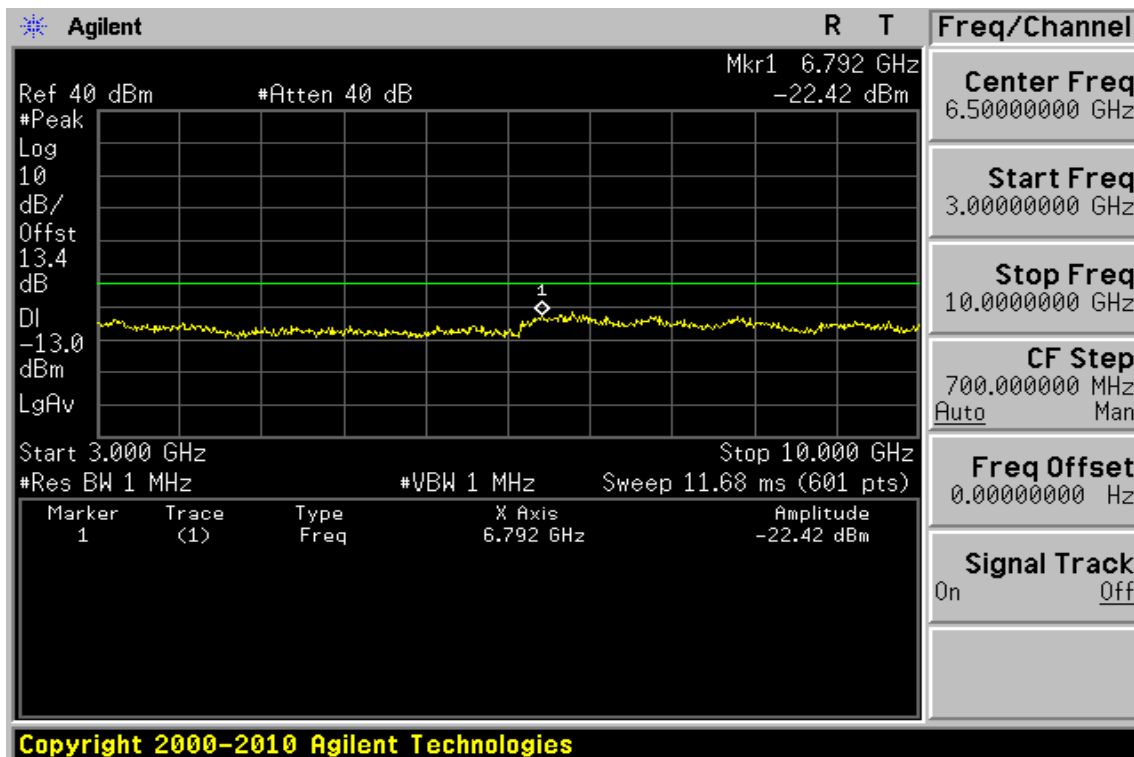
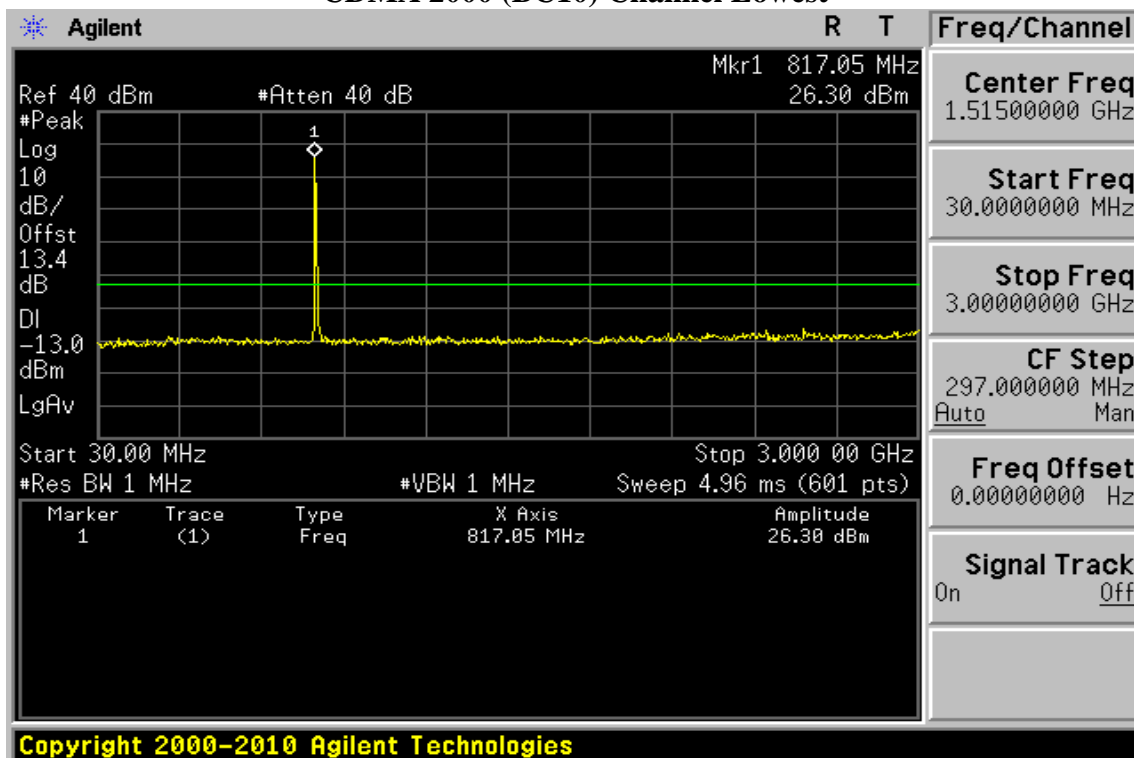
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Figure 9-11: Out of Band emission at antenna terminals –
CDMA 2000 (BC10) Channel Lowest



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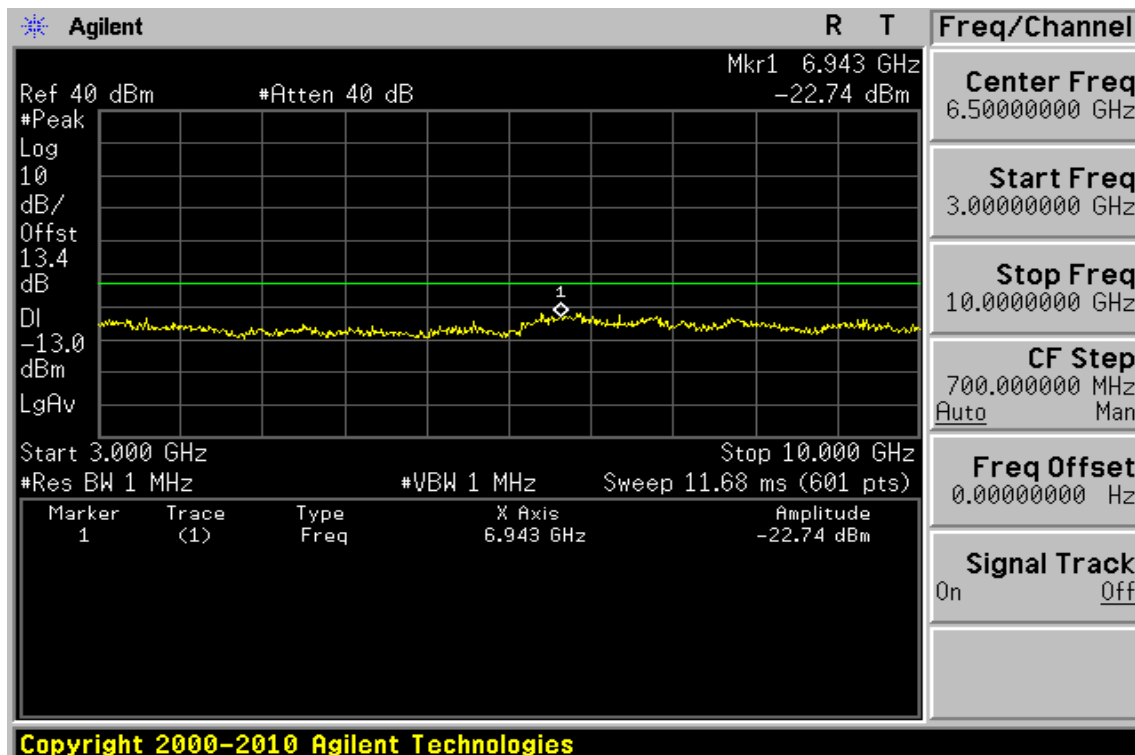
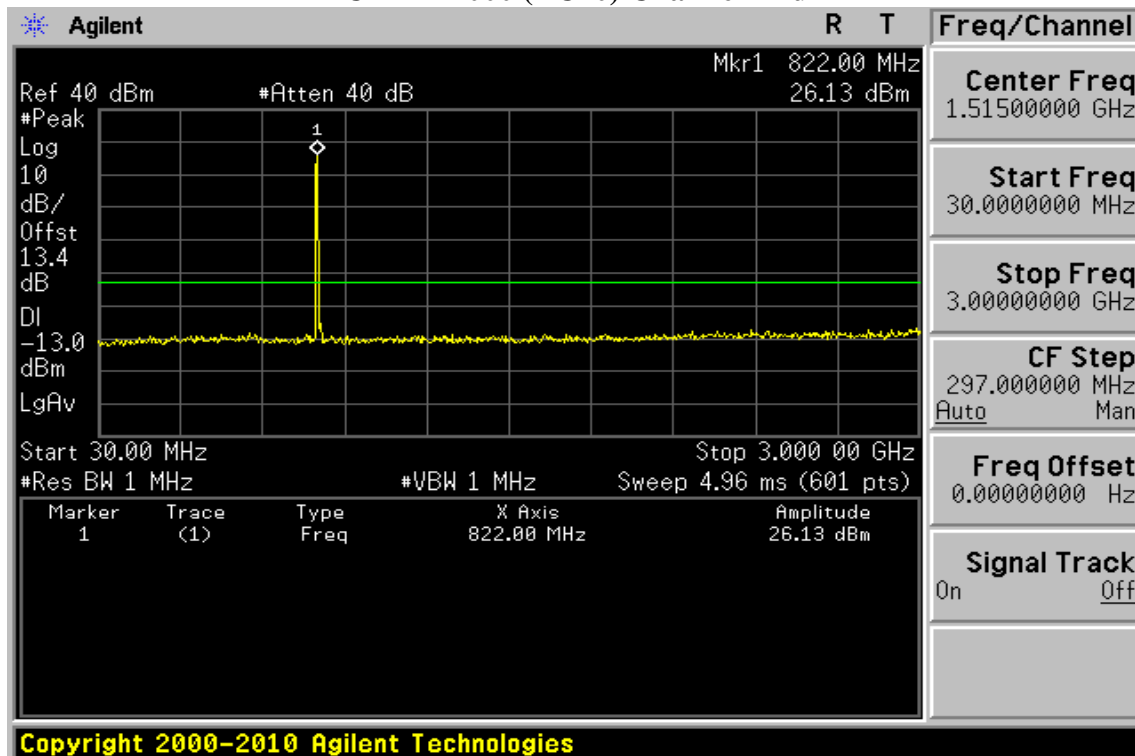
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**Figure 9-12: Out of Band emission at antenna terminals –
CDMA 2000 (BC10) Channel Mid**



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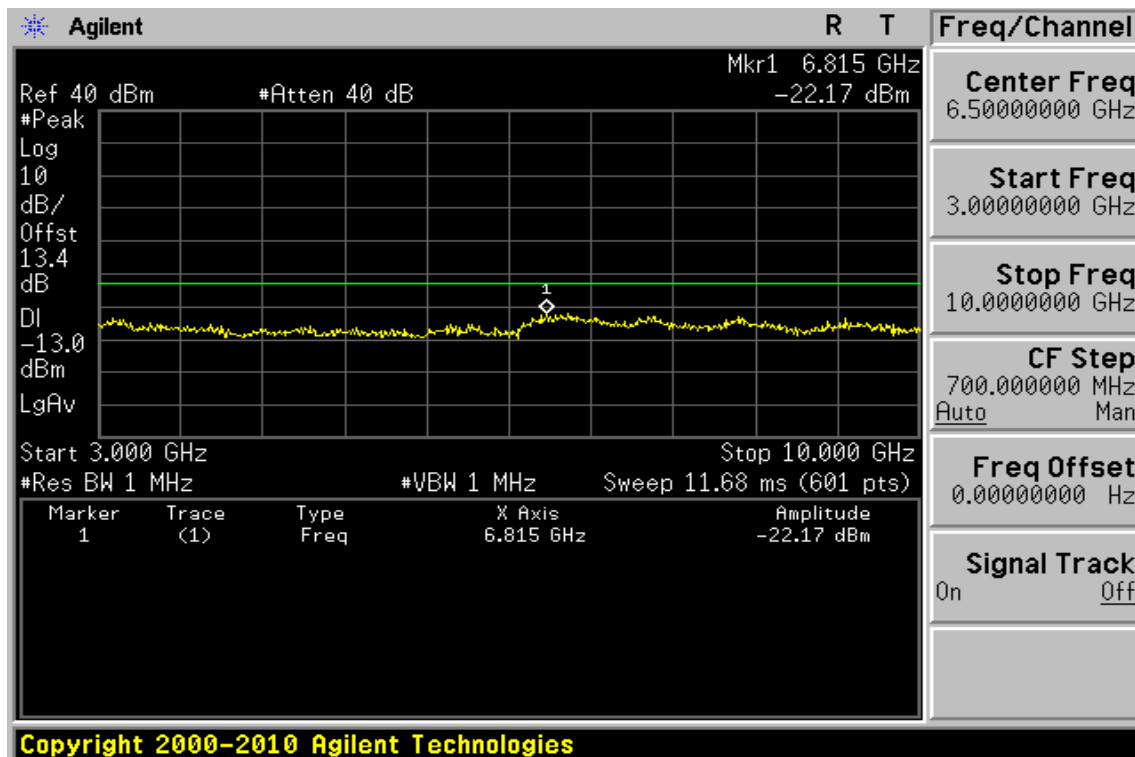
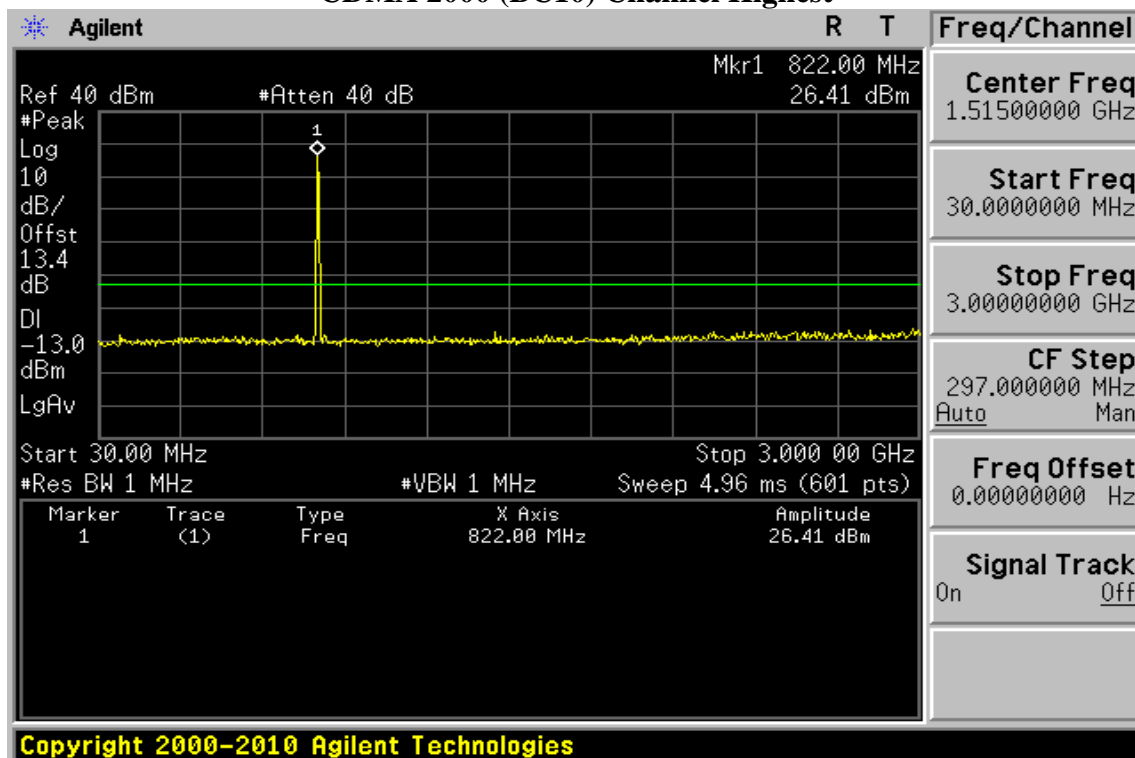
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**Figure 9-13: Out of Band emission at antenna terminals –
CDMA 2000 (BC10) Channel Highest**



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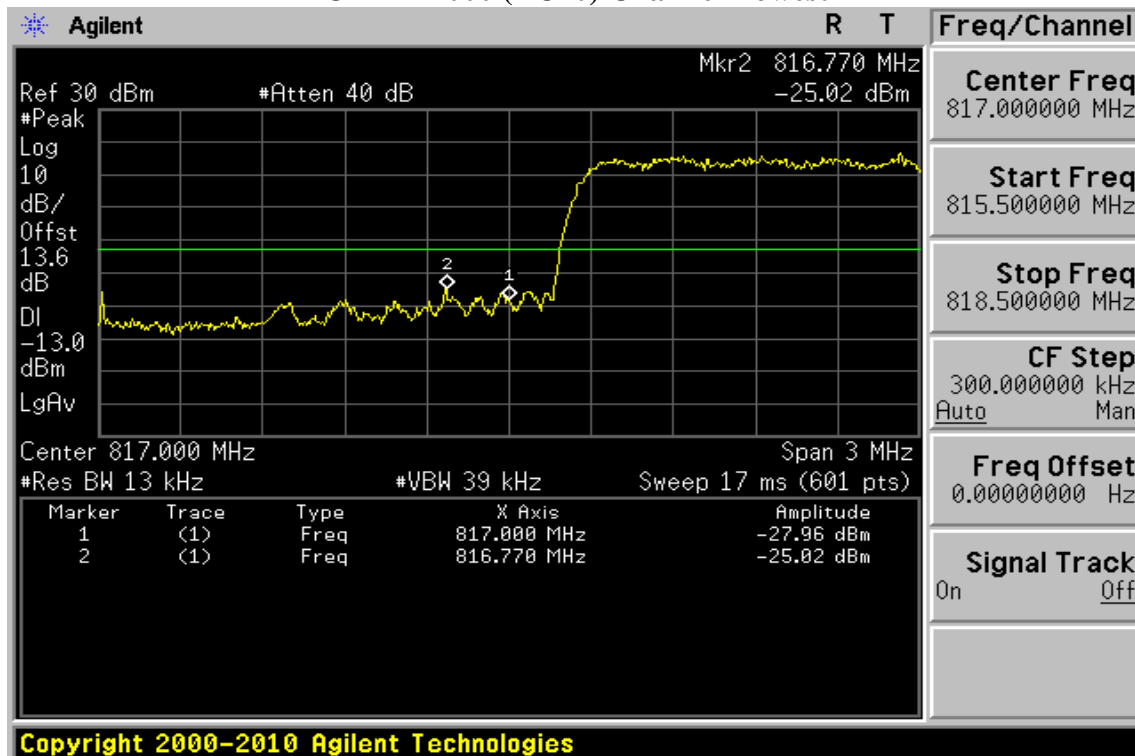
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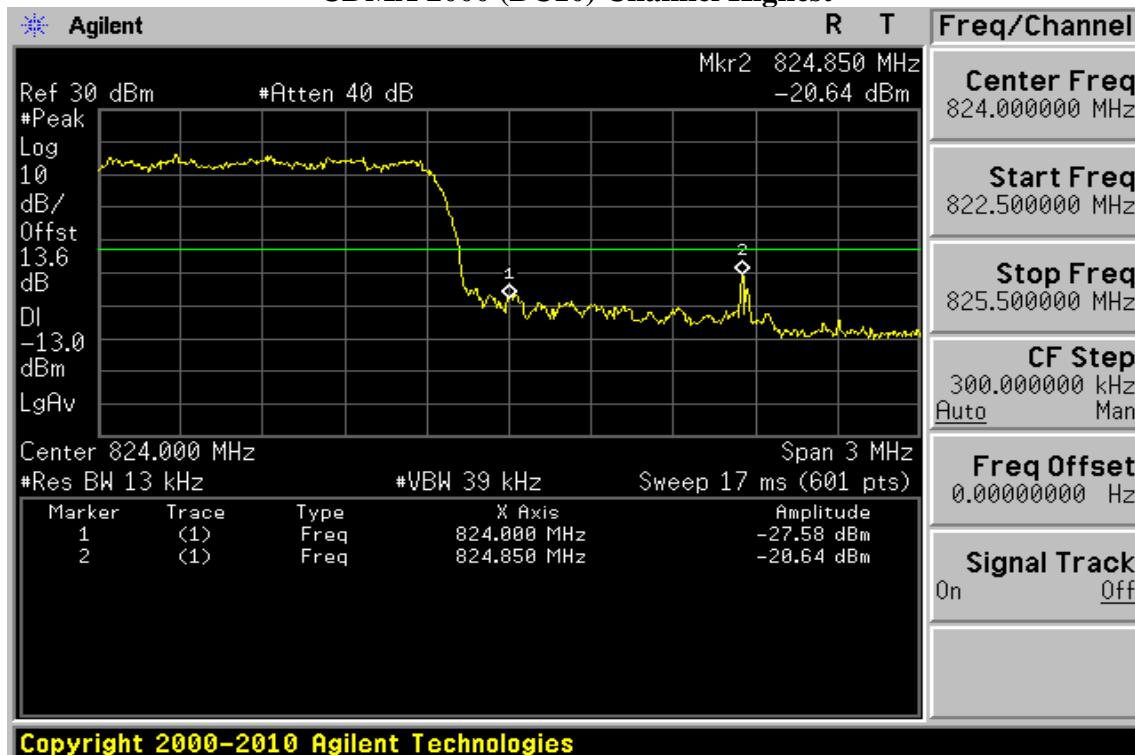
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**Figure 9-14: Band edge emission at antenna terminals –
CDMA 2000 (BC10) Channel Lowest**



**Figure 9-15: Band edge emission at antenna terminals –
CDMA 2000 (BC10) Channel Highest**



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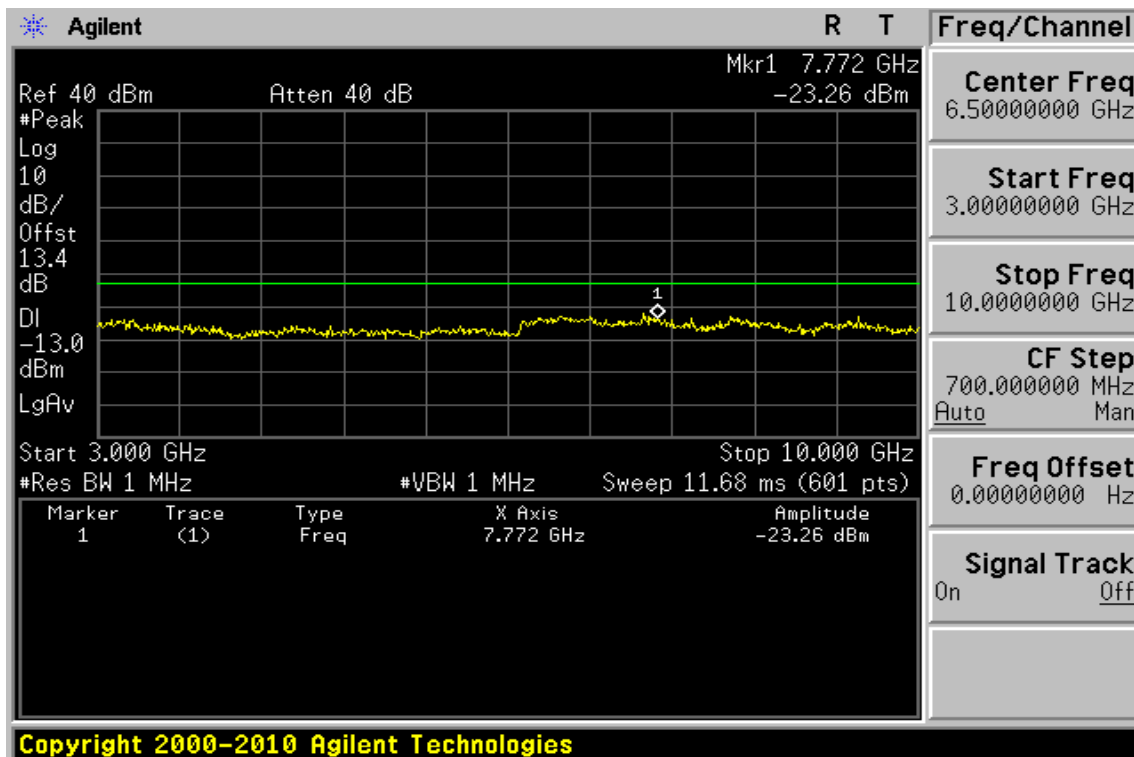
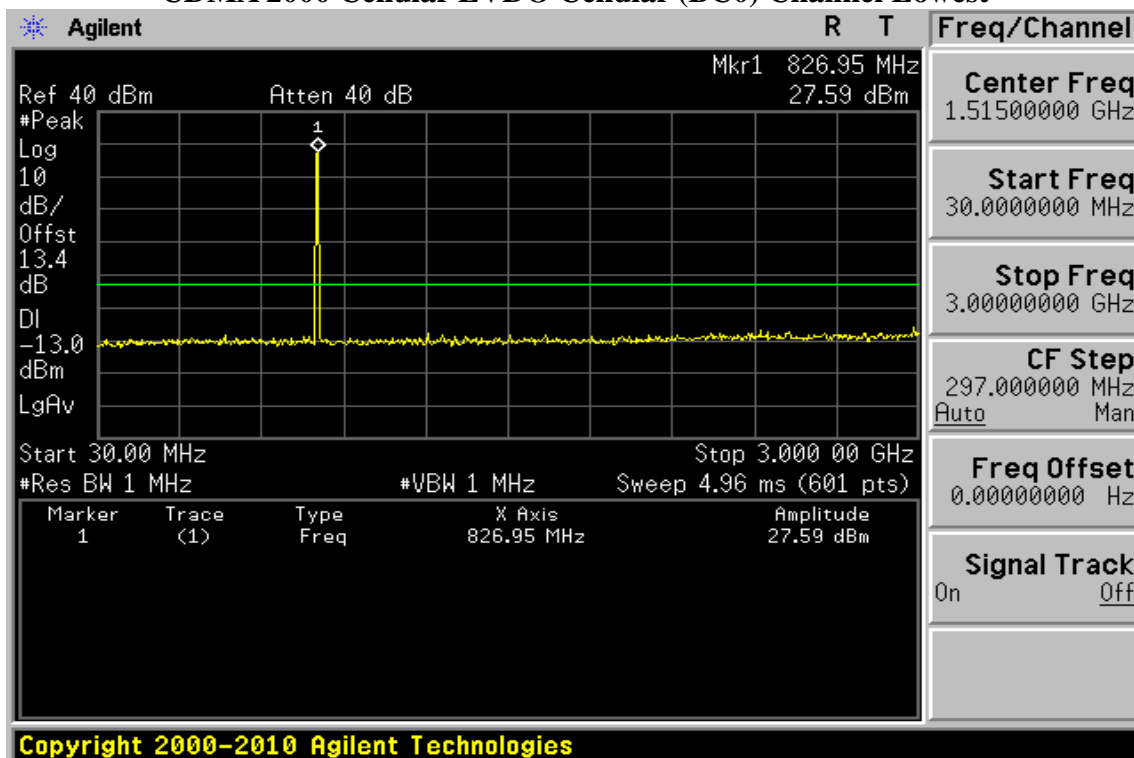
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Figure 9-16: Out of Band emission at antenna terminals –
CDMA 2000 Cellular EVDO Cellular (BC0) Channel Lowest



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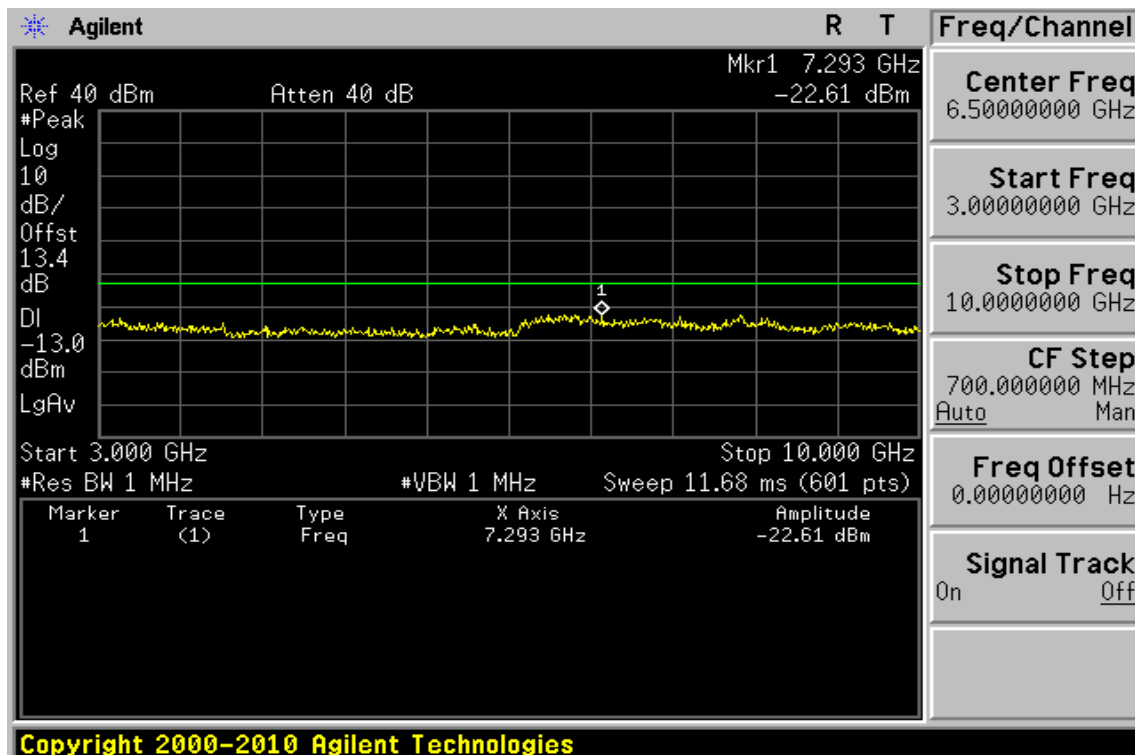
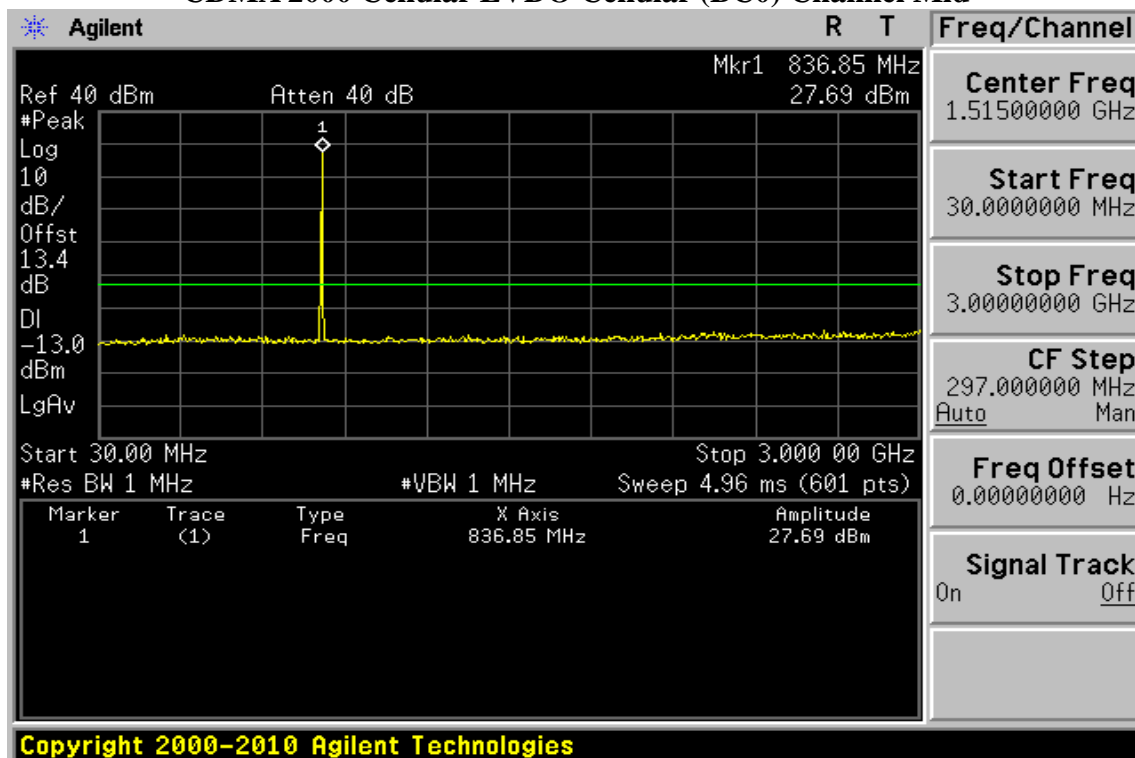
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**Figure 9-17: Out of Band emission at antenna terminals –
CDMA 2000 Cellular EVDO Cellular (BC0) Channel Mid**



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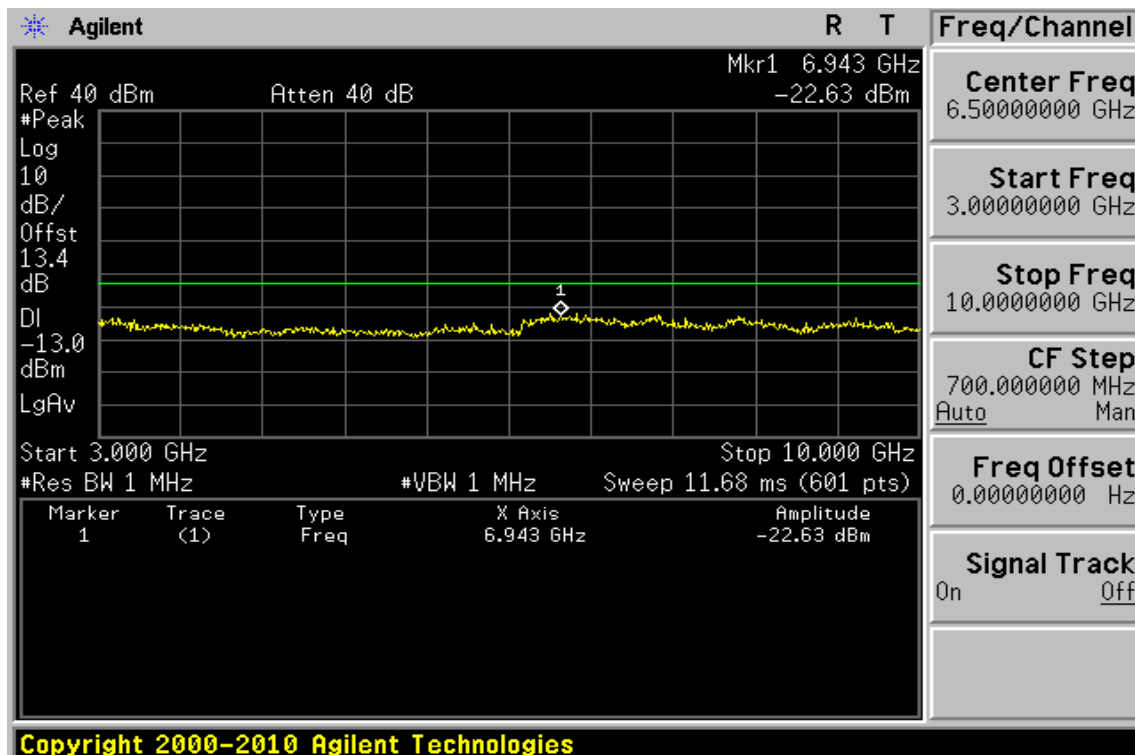
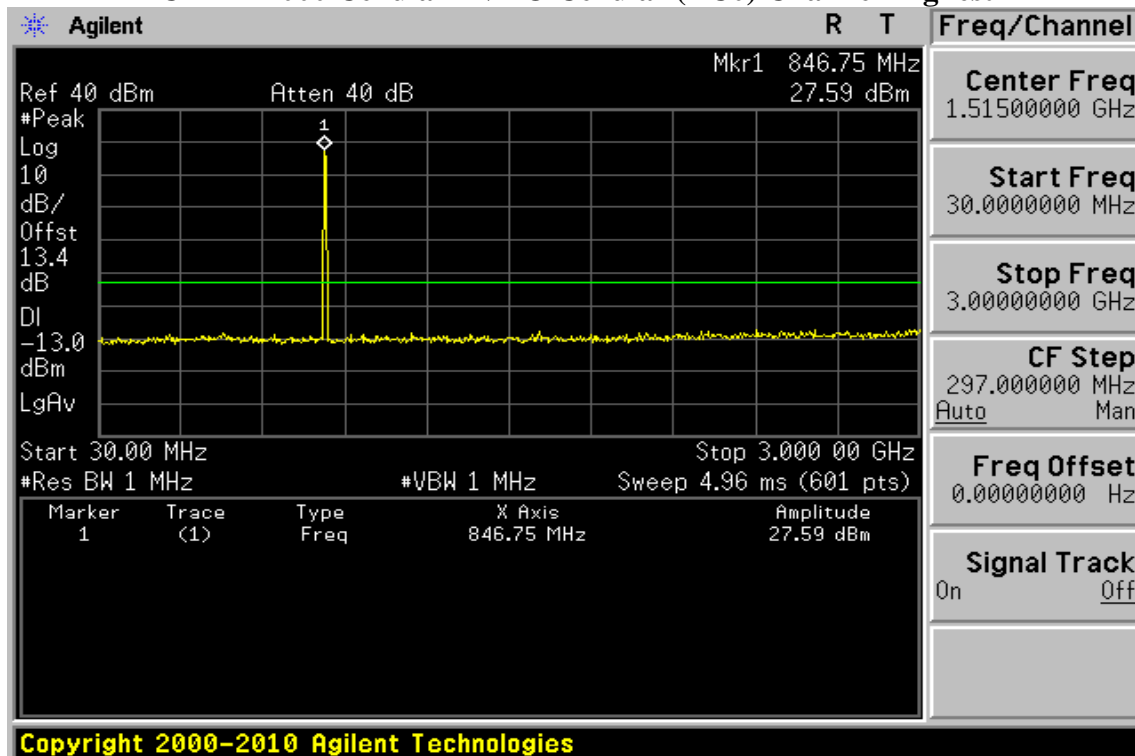
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**Figure 9-18: Out of Band emission at antenna terminals –
CDMA 2000 Cellular EVDO Cellular (BC0) Channel Highest**



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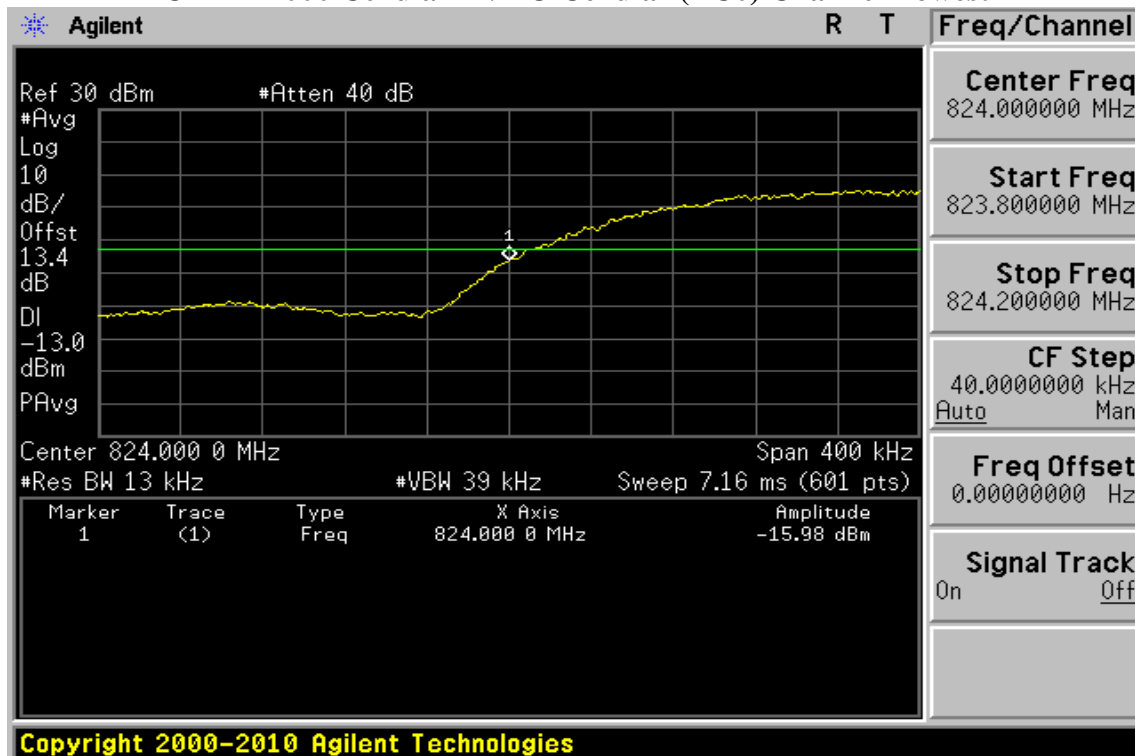
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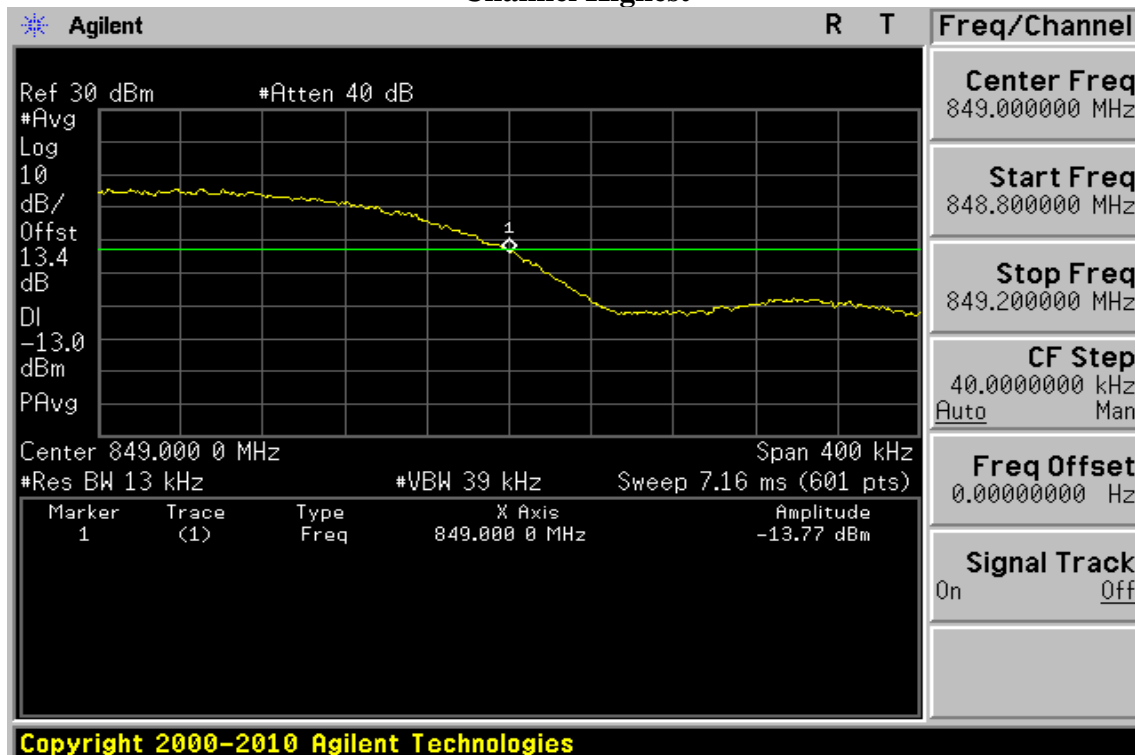
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**Figure 9-19: Band edge emission at antenna terminals –
CDMA 2000 Cellular EVDO Cellular (BC0) Channel Lowest**



**Figure 9-20: Band edge emission at antenna terminals –CDMA 2000 Cellular EVDO Cellular (BC0)
Channel Highest**



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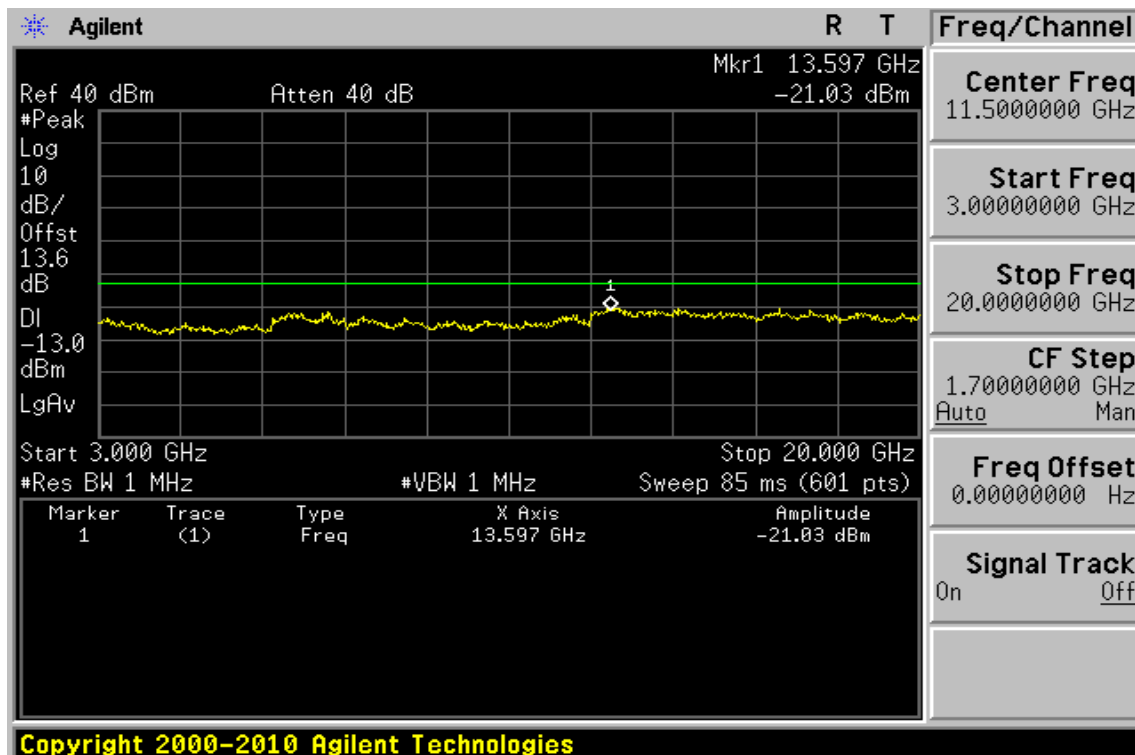
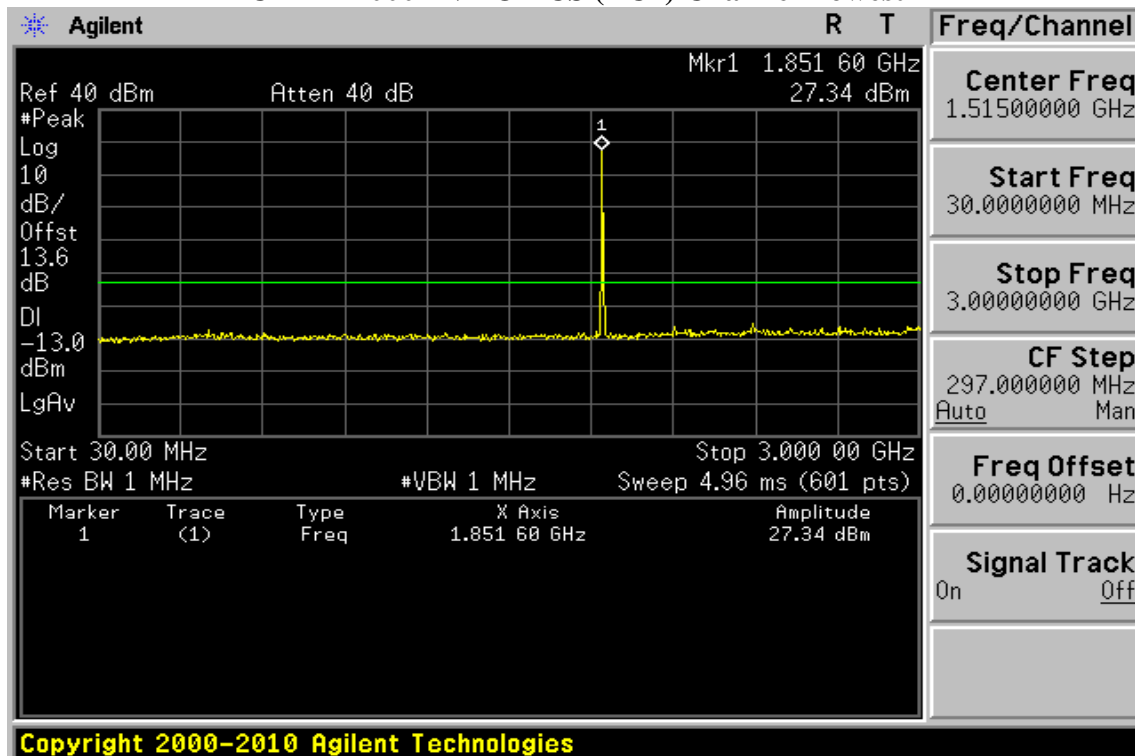
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**Figure 9-21: Out of Band emission at antenna terminals –
CDMA 2000 EVDO PCS (BC1) Channel Lowest**



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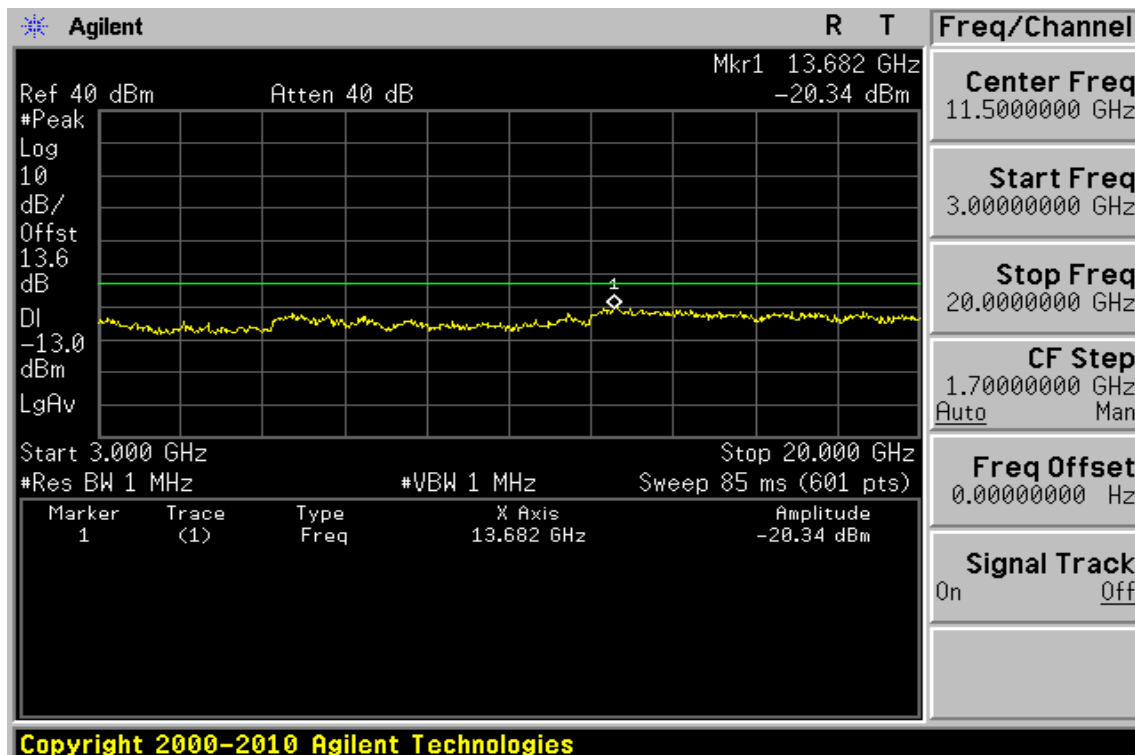
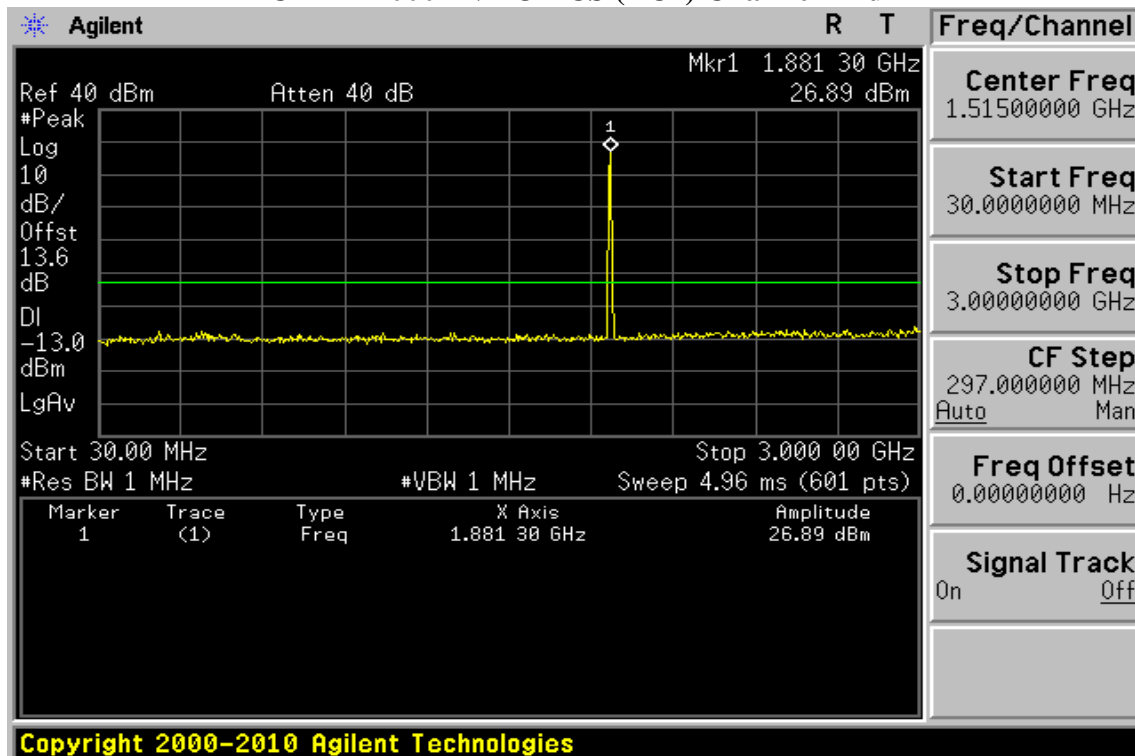
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**Figure 9-22: Out of Band emission at antenna terminals –
CDMA 2000 EVDO PCS (BC1) Channel Mid**



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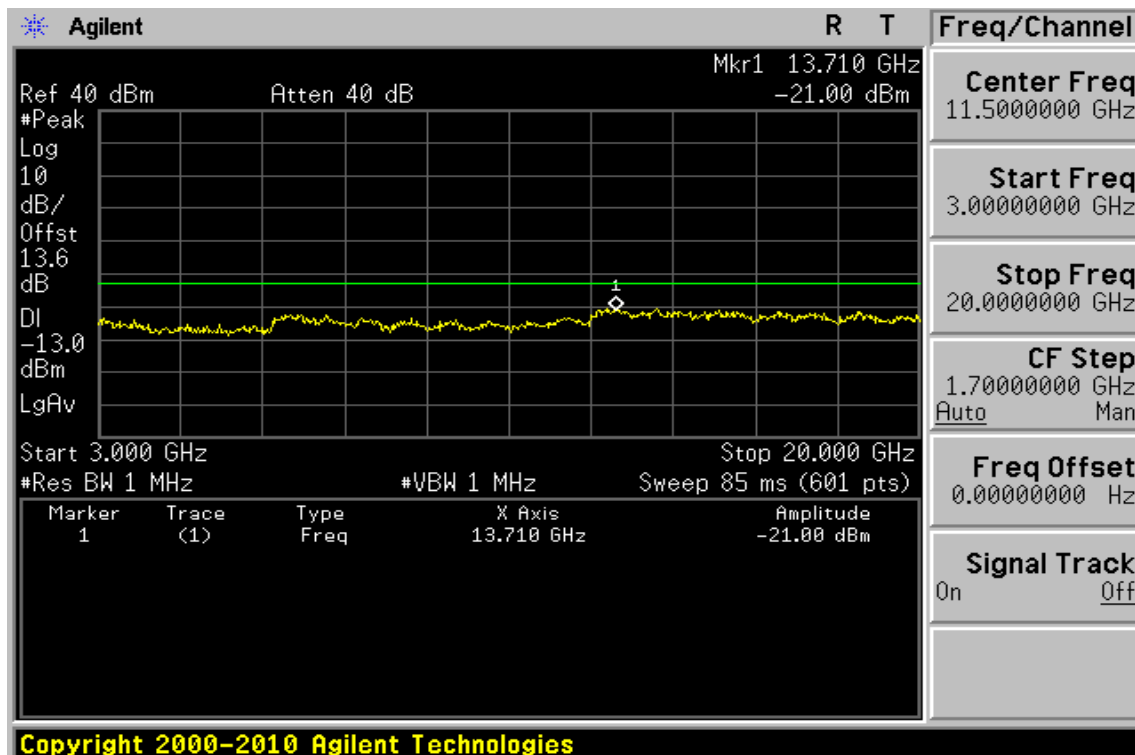
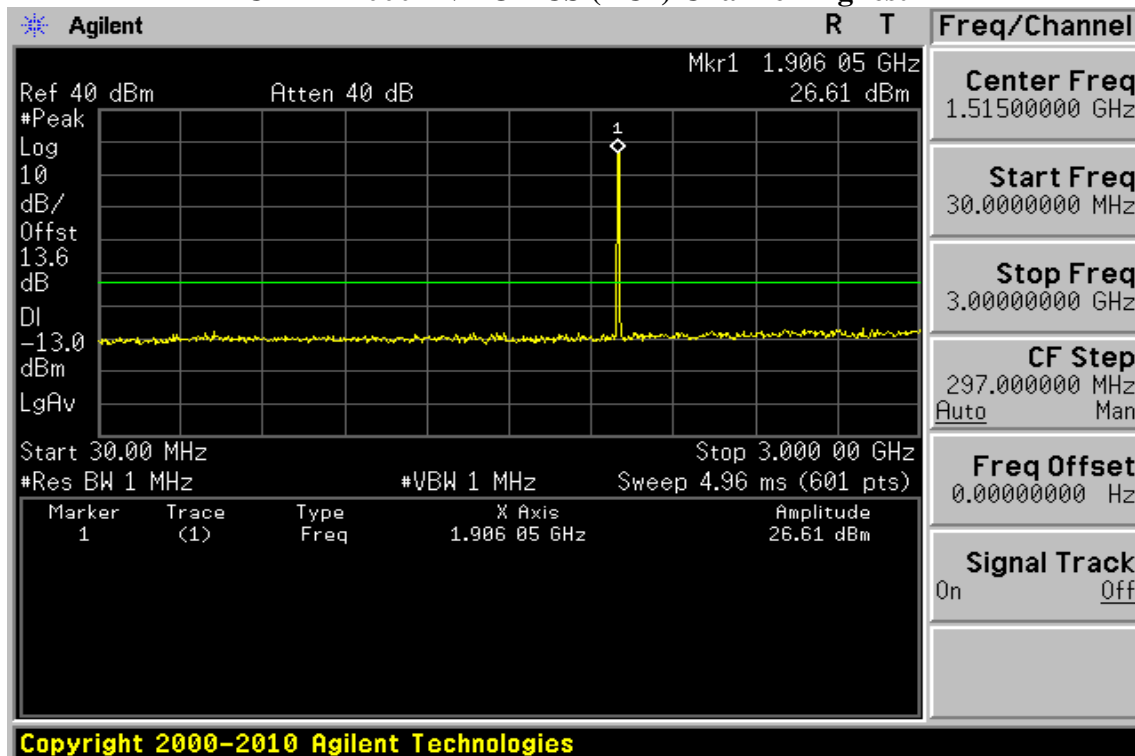
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**Figure 9-23: Out of Band emission at antenna terminals –
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Figure 9-24: Band edge emission at antenna terminals –
CDMA 2000 EVDO PCS (BC1) Channel Lowest

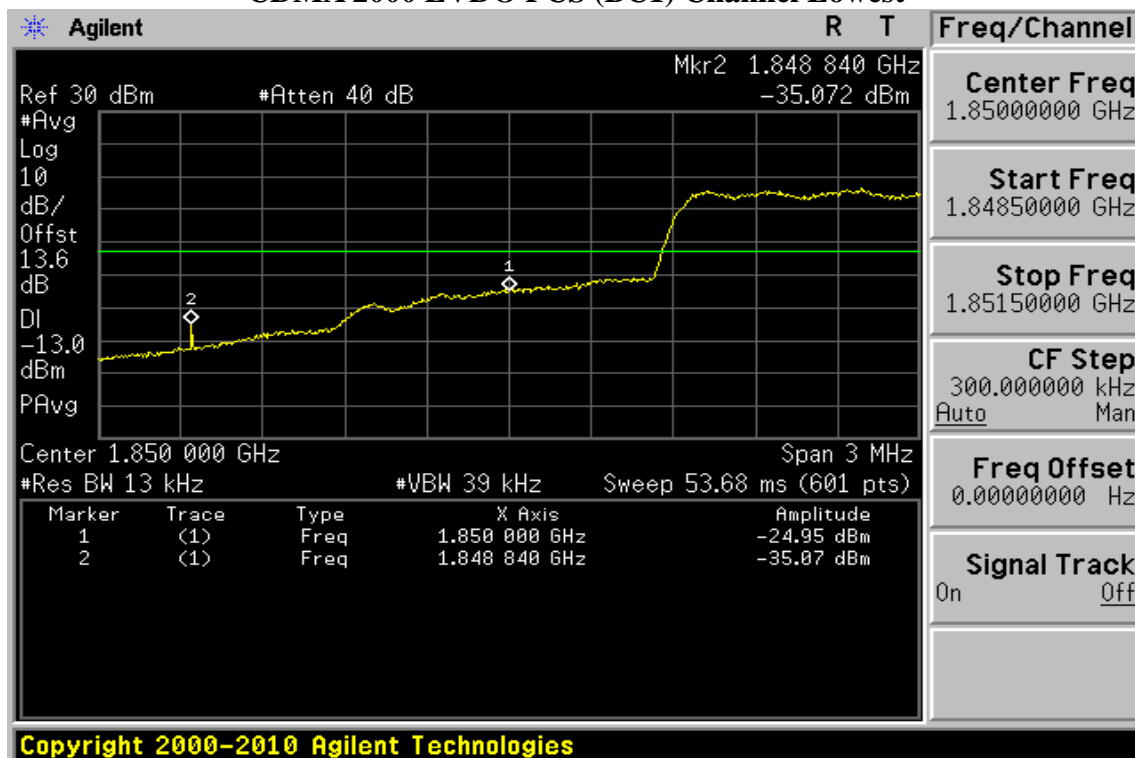


Figure 9-25: Band edge emission at antenna terminals –
CDMA 2000 EVDO PCS (BC1) Channel Highest



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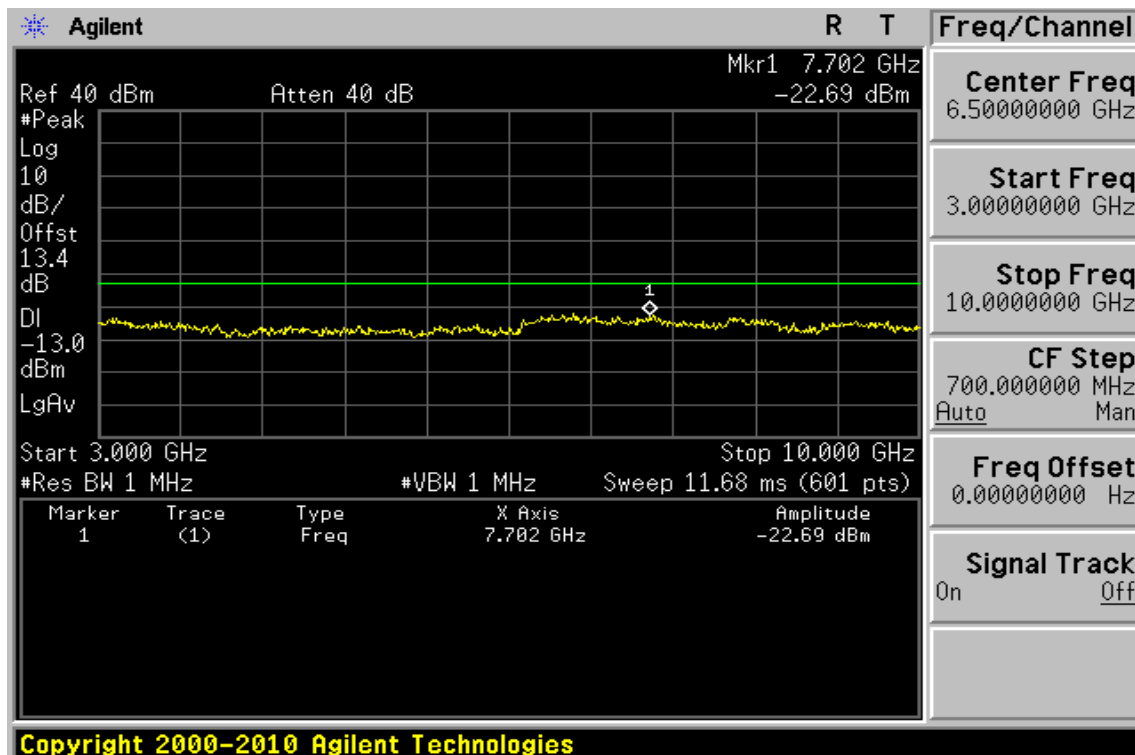
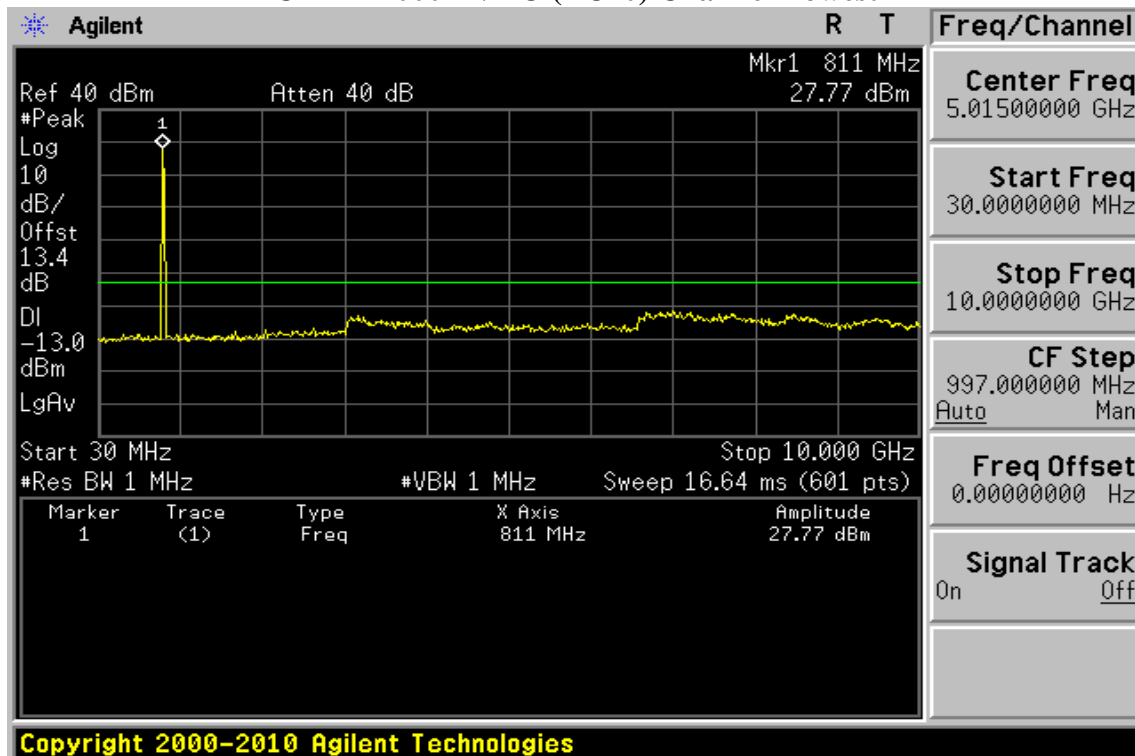
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**Figure 9-26: Out of Band emission at antenna terminals –
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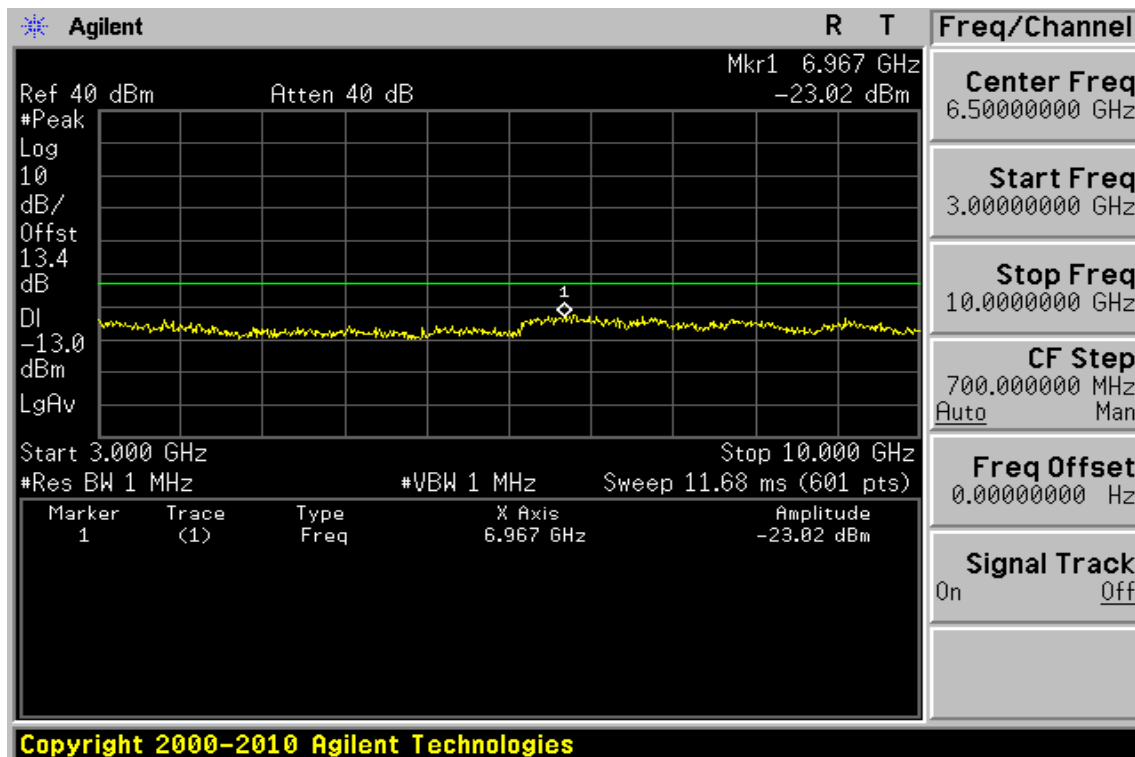
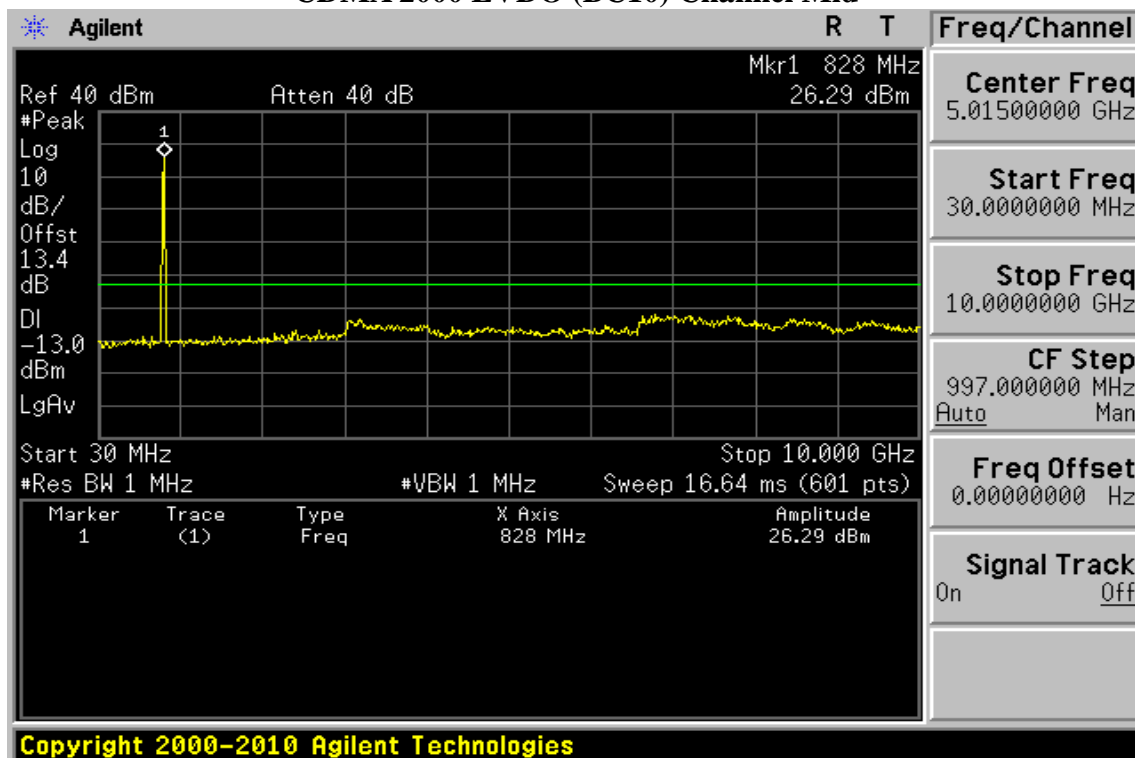
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Figure 9-27: Out of Band emission at antenna terminals –
CDMA 2000 EVDO (BC10) Channel Mid



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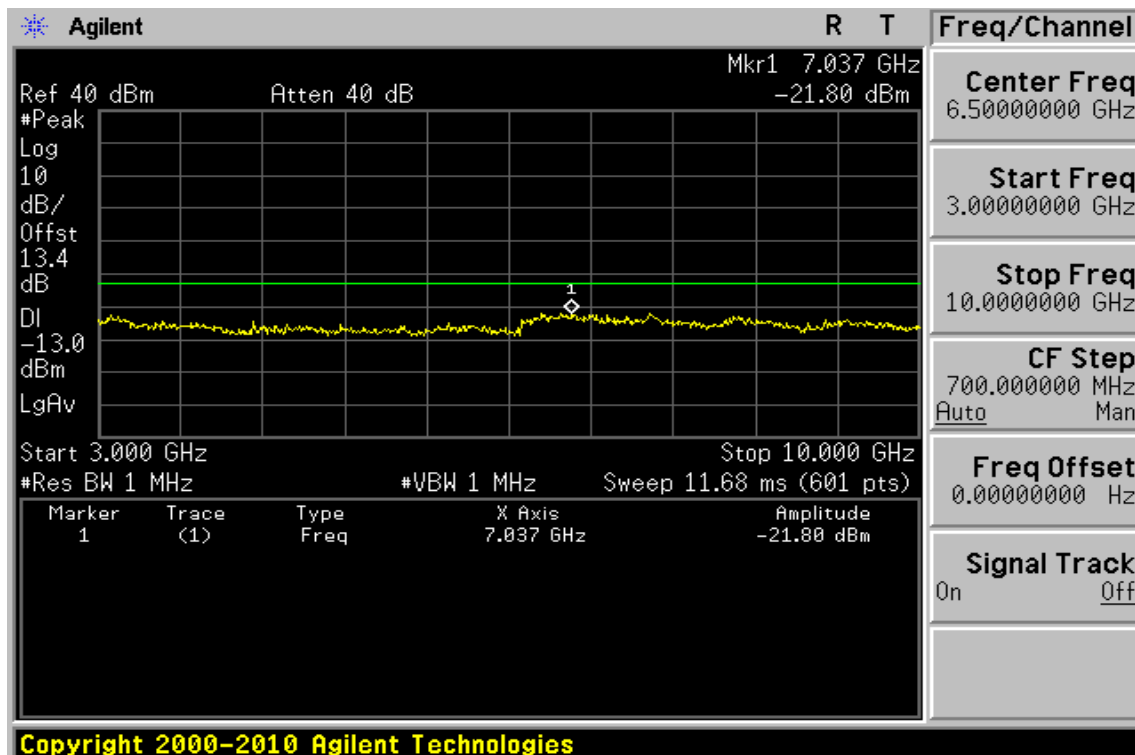
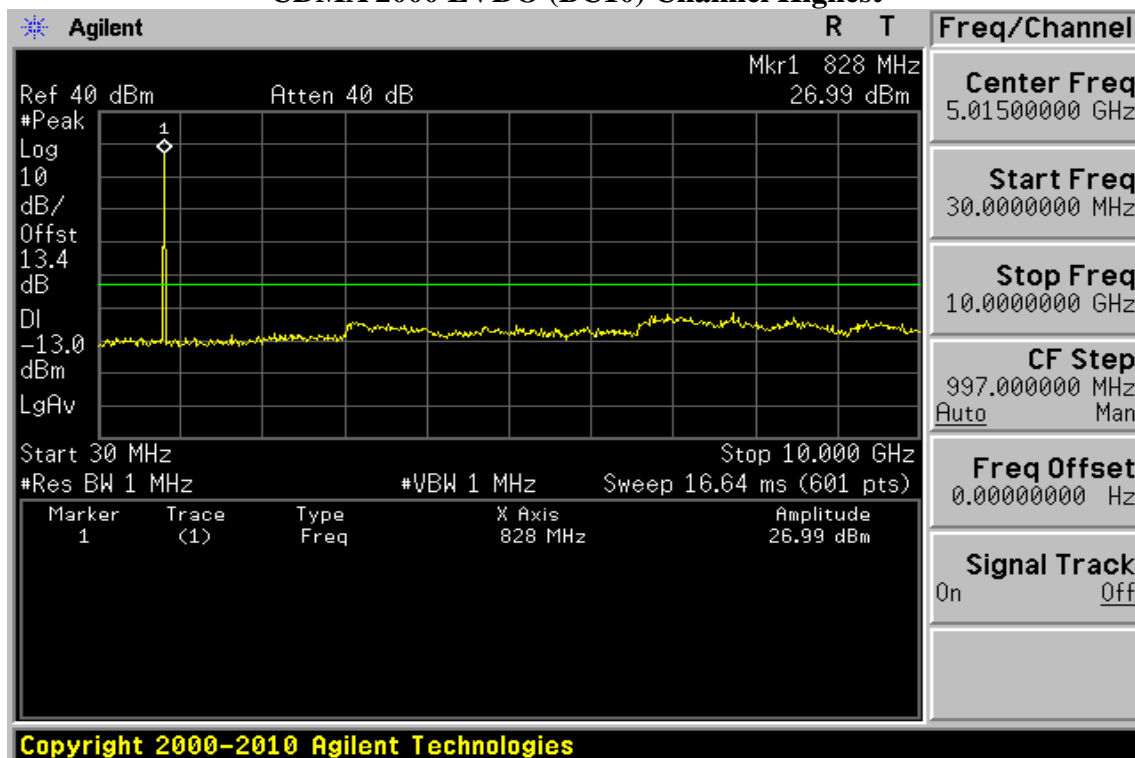
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**Figure 9-28: Out of Band emission at antenna terminals –
CDMA 2000 EVDO (BC10) Channel Highest**



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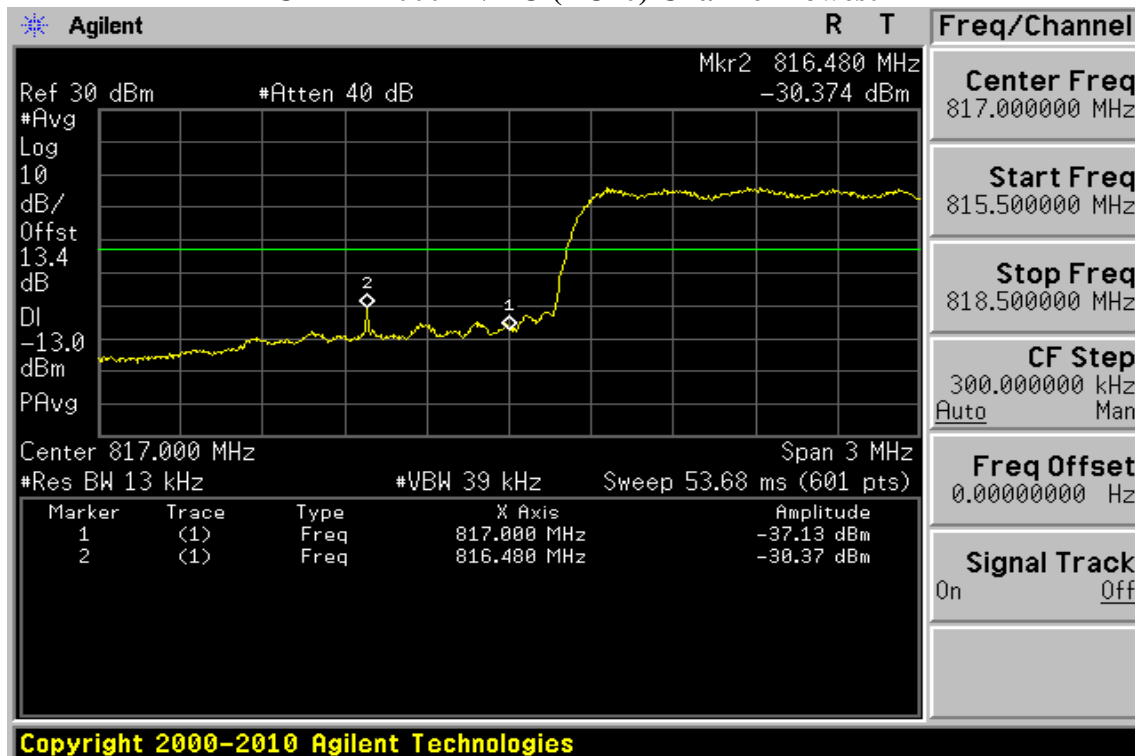
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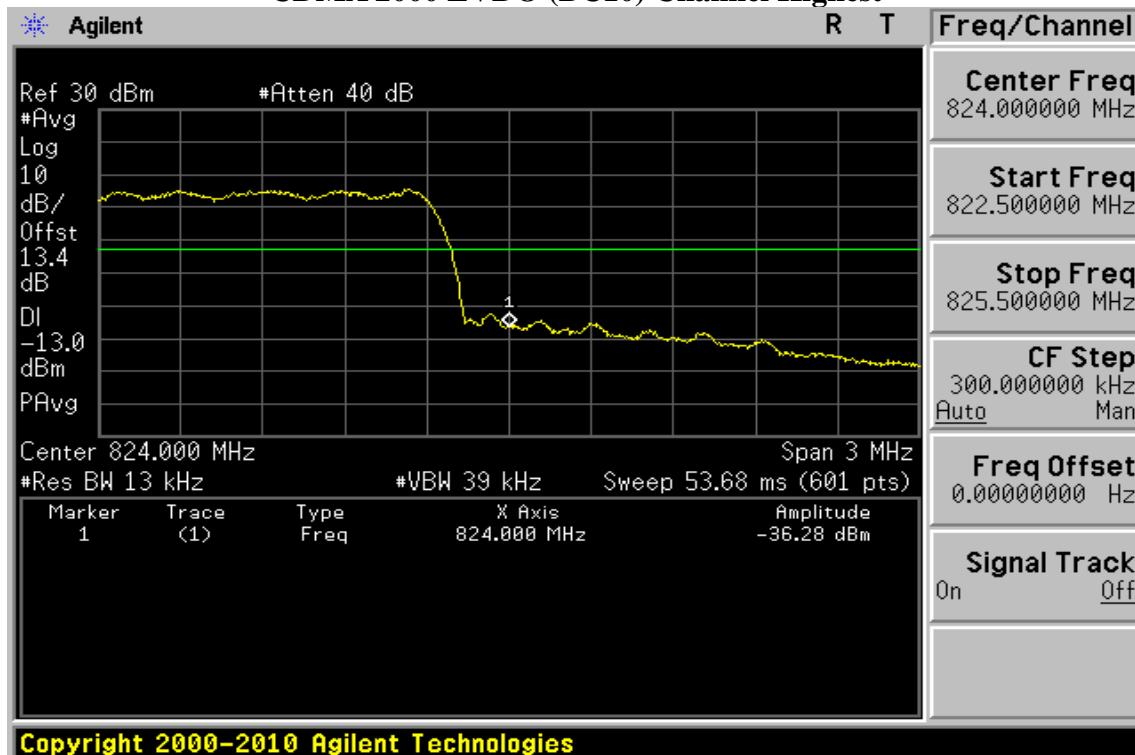
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**Figure 9-29: Band edge emission at antenna terminals –
CDMA 2000 EVDO (BC10) Channel Lowest**



**Figure 9-30: Band edge emission at antenna terminals –
CDMA 2000 EVDO (BC10) Channel Highest**



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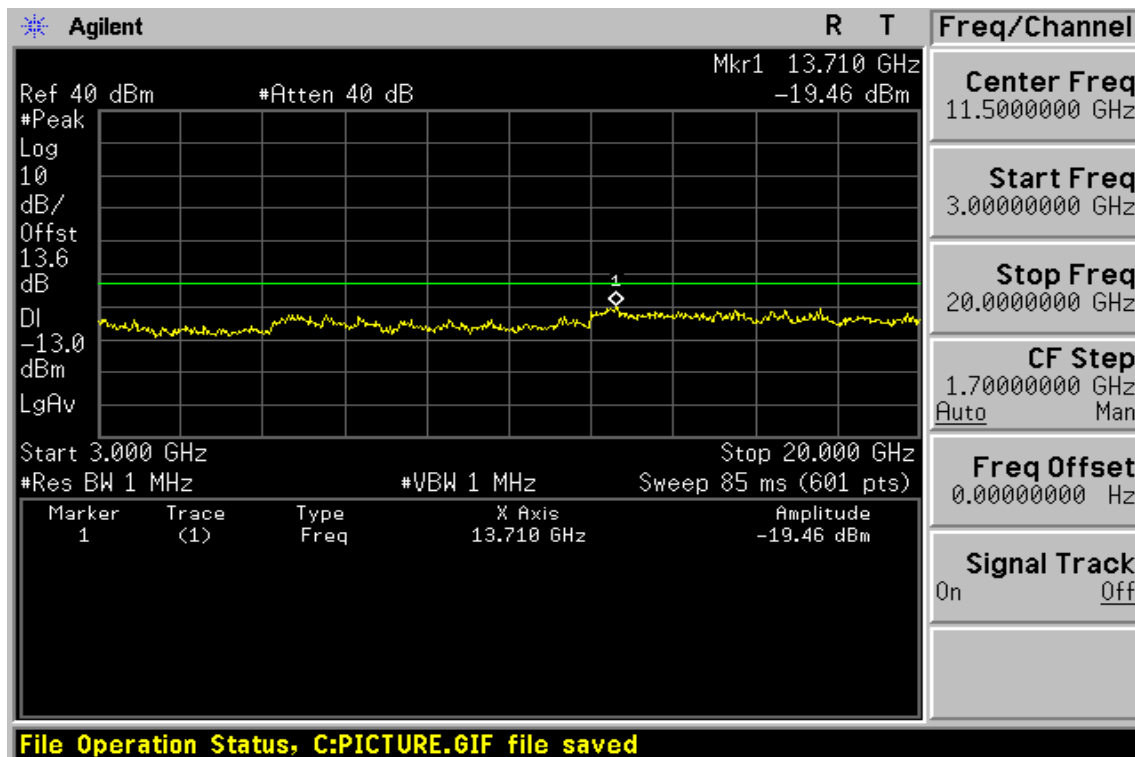
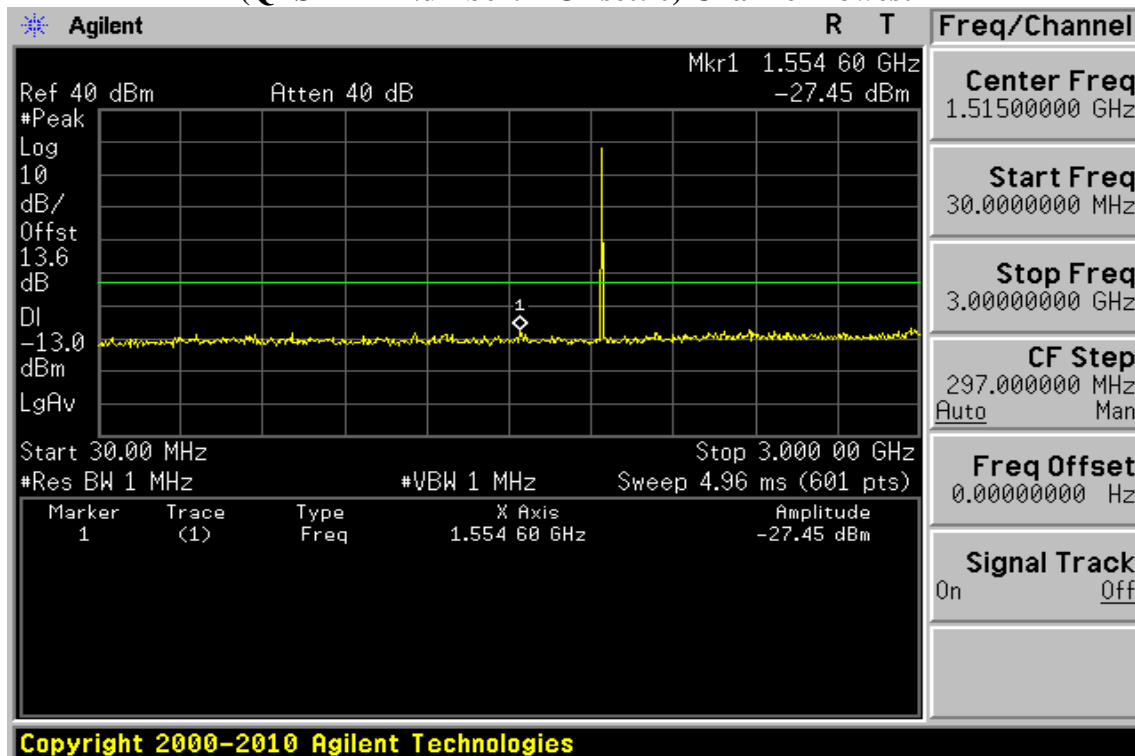
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Figure 9-31: Out of Band emission at antenna terminals – 1.4MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 0) Channel Lowest



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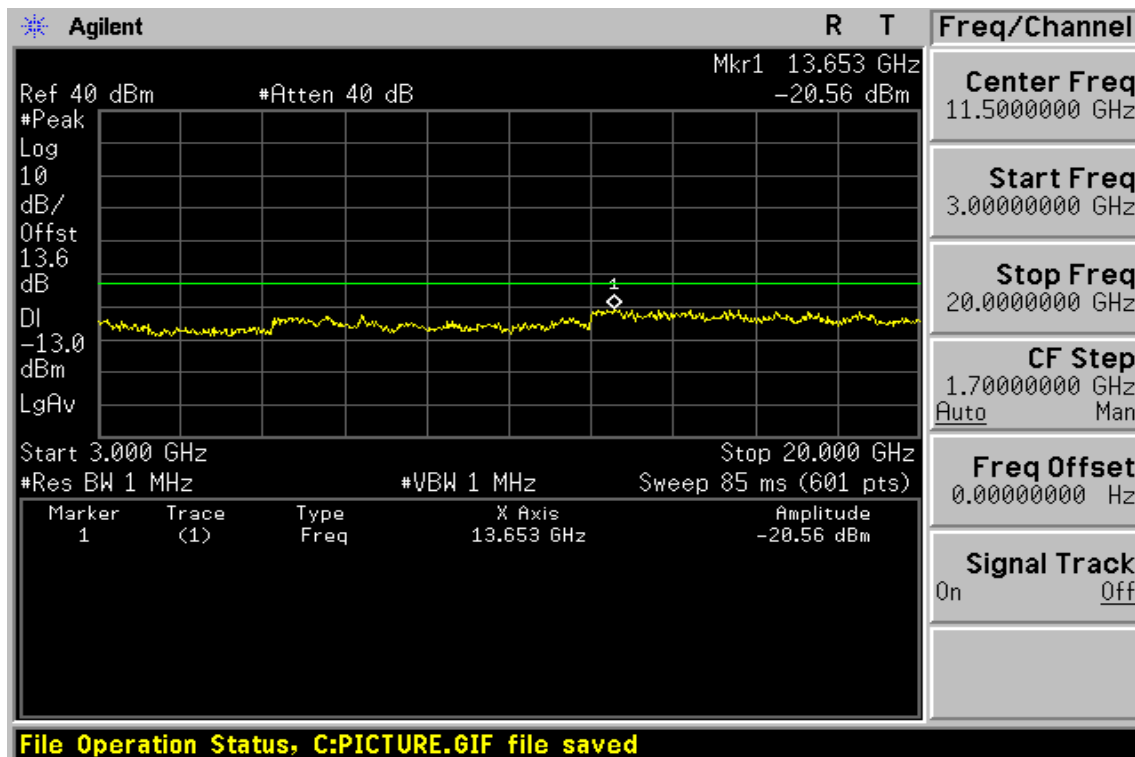
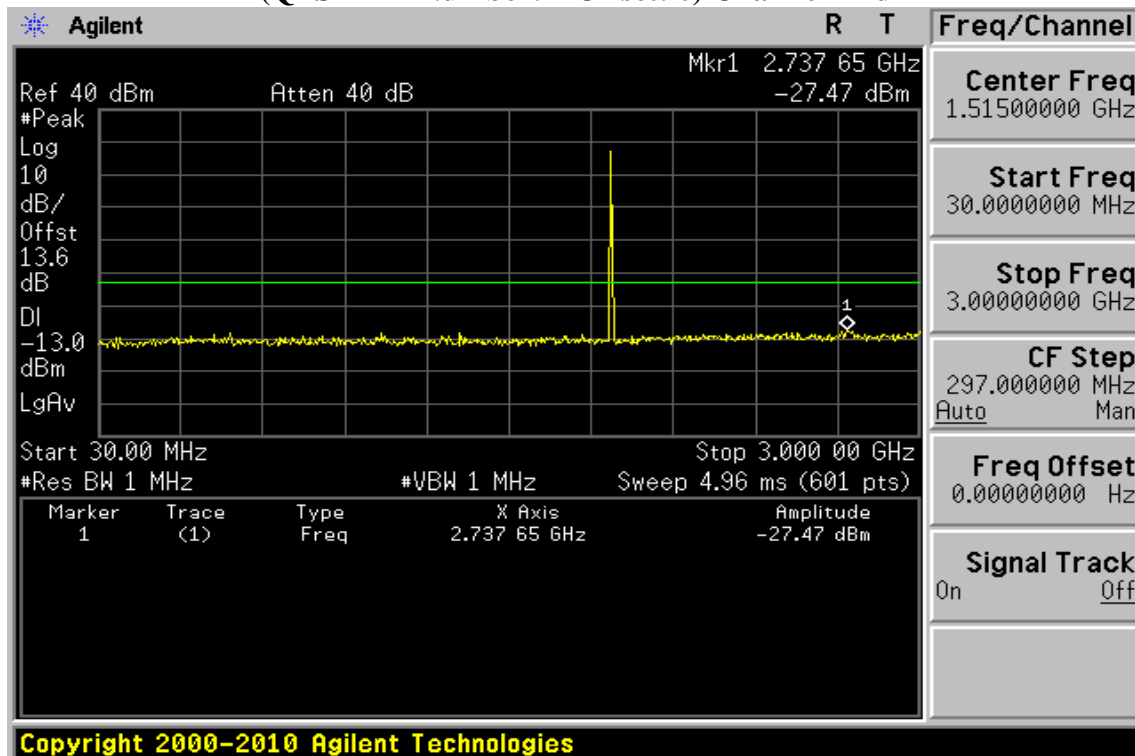
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**Figure 9-32: Out of Band emission at antenna terminals – 1.4MHz BW LTE-Band 25
(QPSK RB Number: 1 Offset: 0) Channel Mid**



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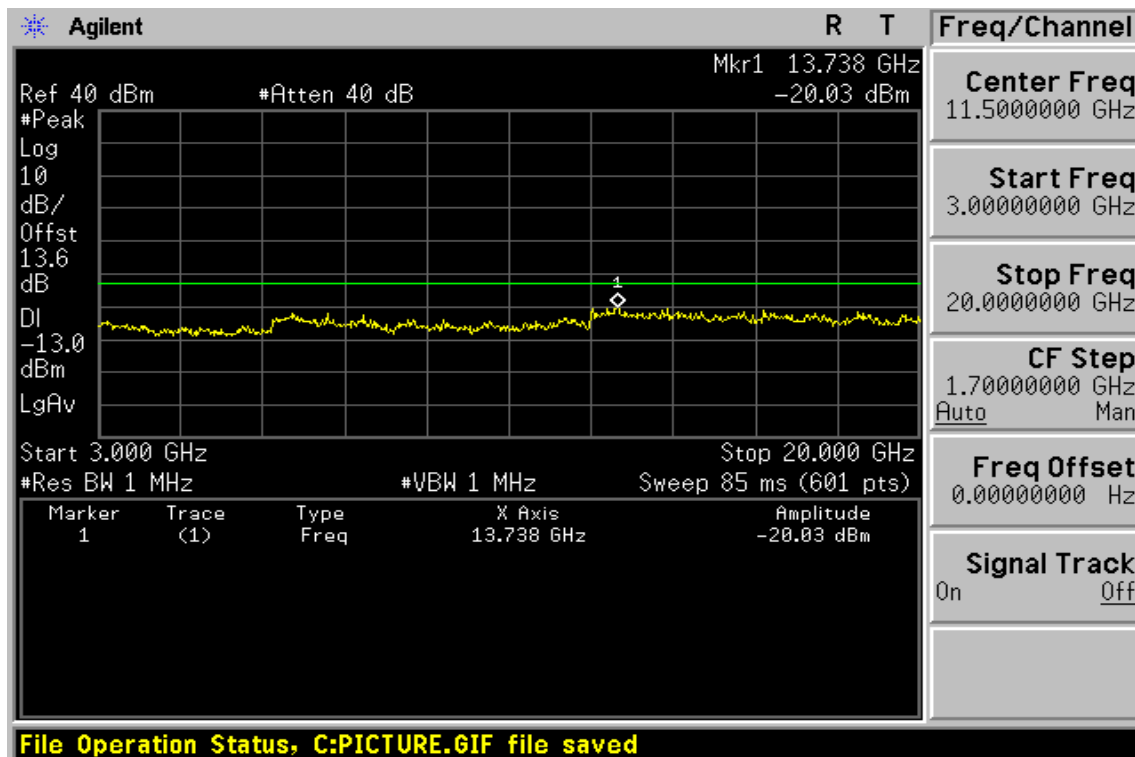
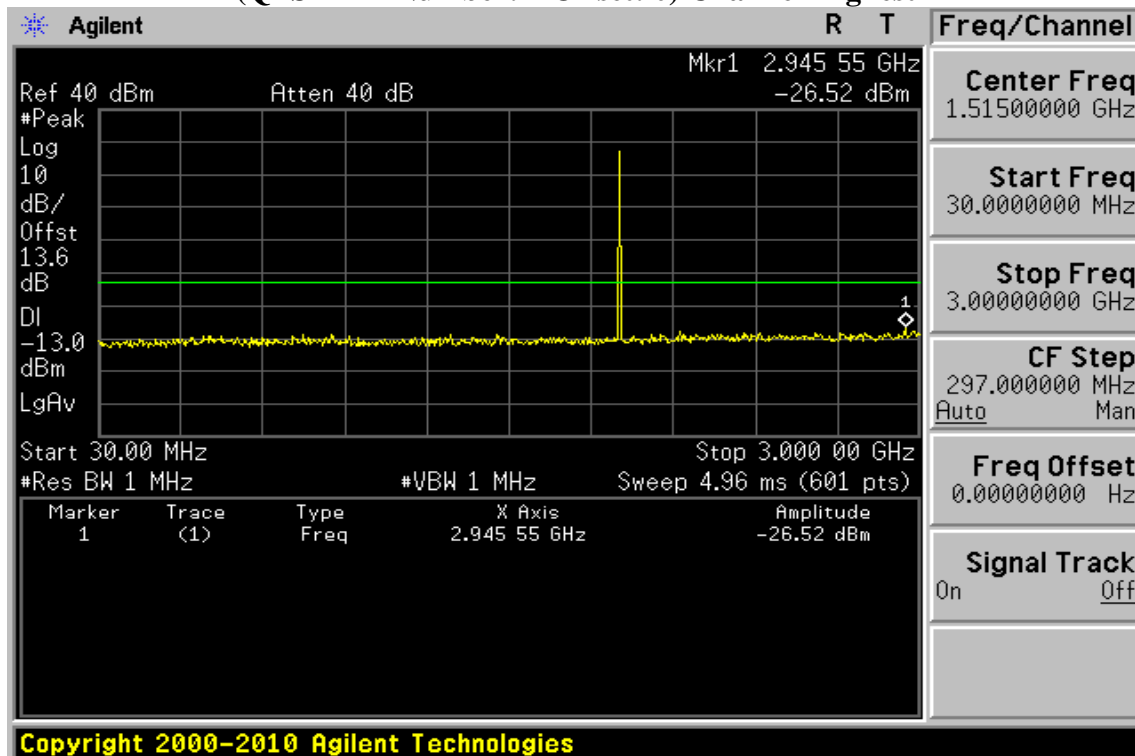
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Figure 9-33: Out of Band emission at antenna terminals – 1.4MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 0) Channel Highest



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Figure 9-34: Band edge emission at antenna terminals – 1.4MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 5) Channel Lowest

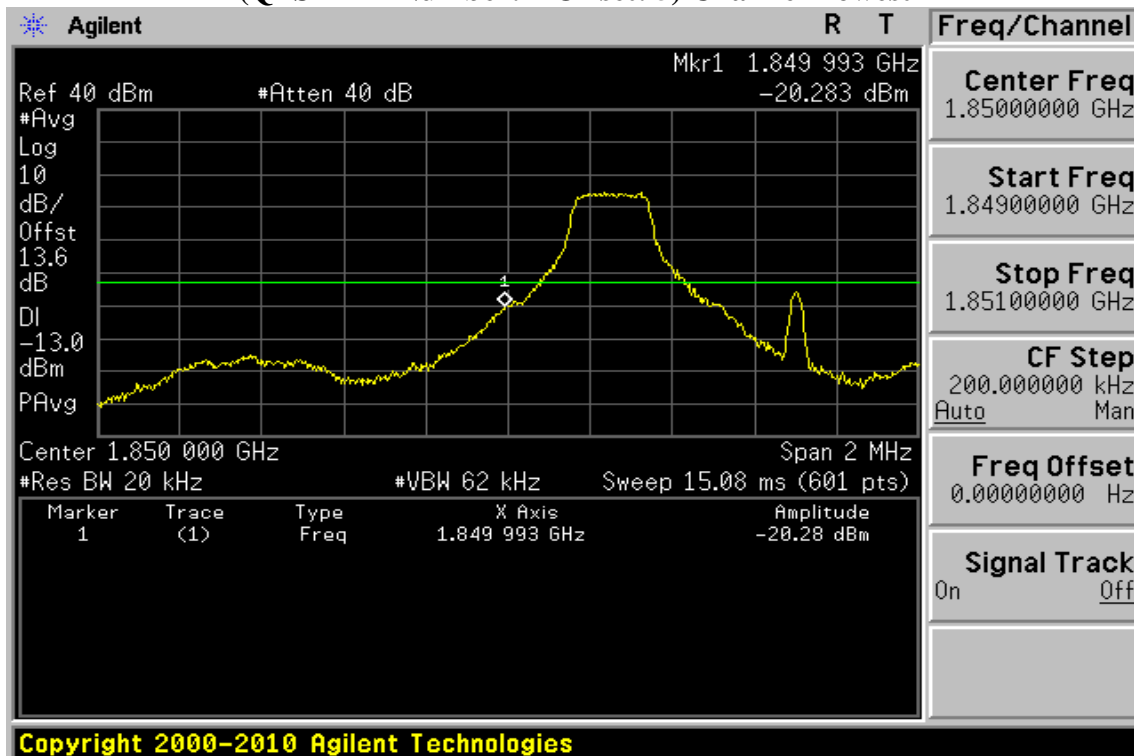
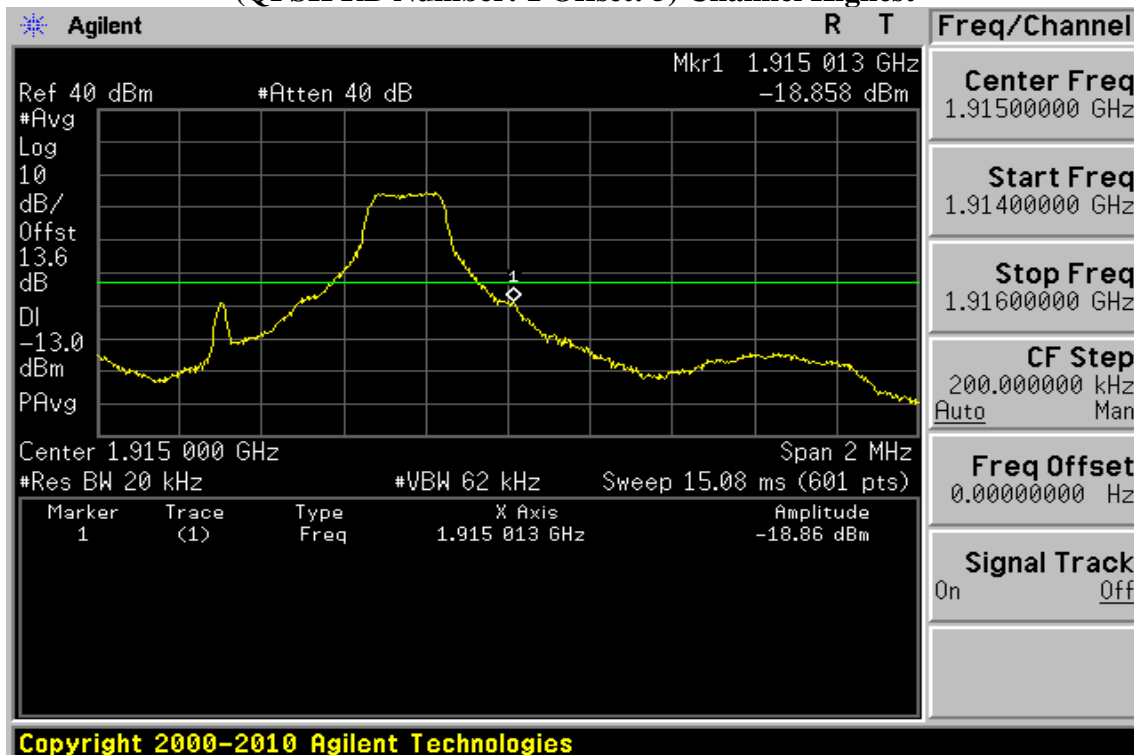


Figure 9-35: Band edge emission at antenna terminals –1.4MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 5) Channel Highest



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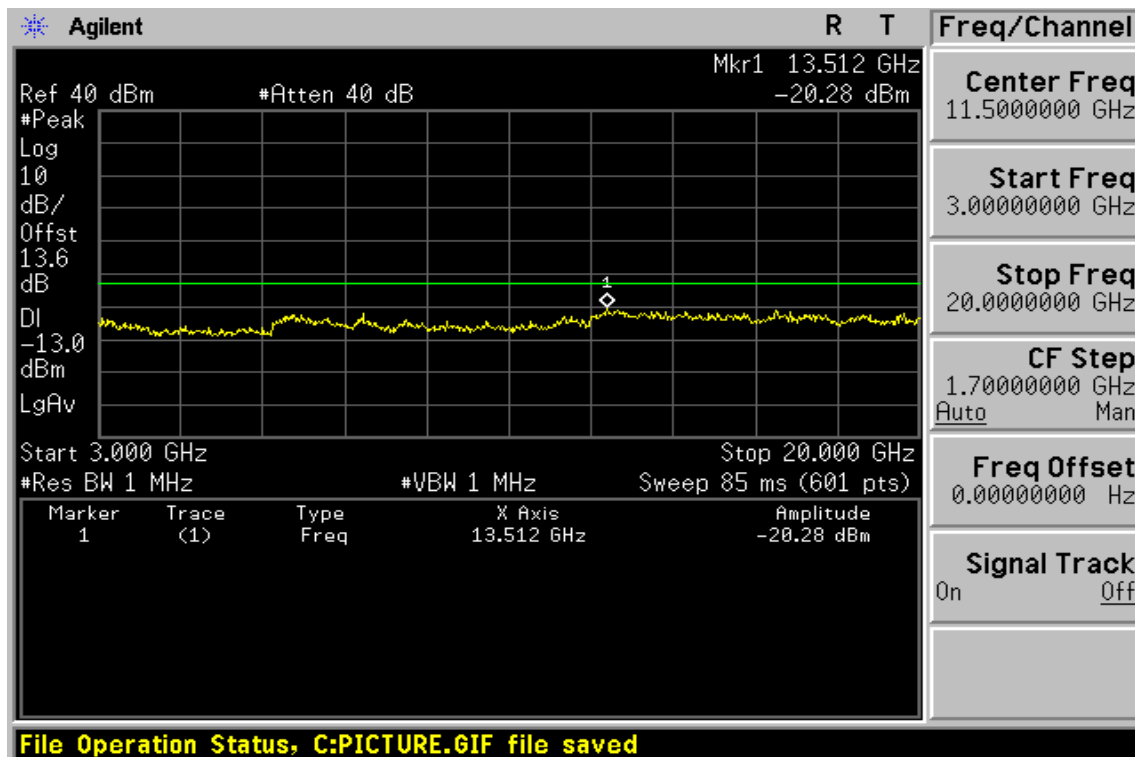
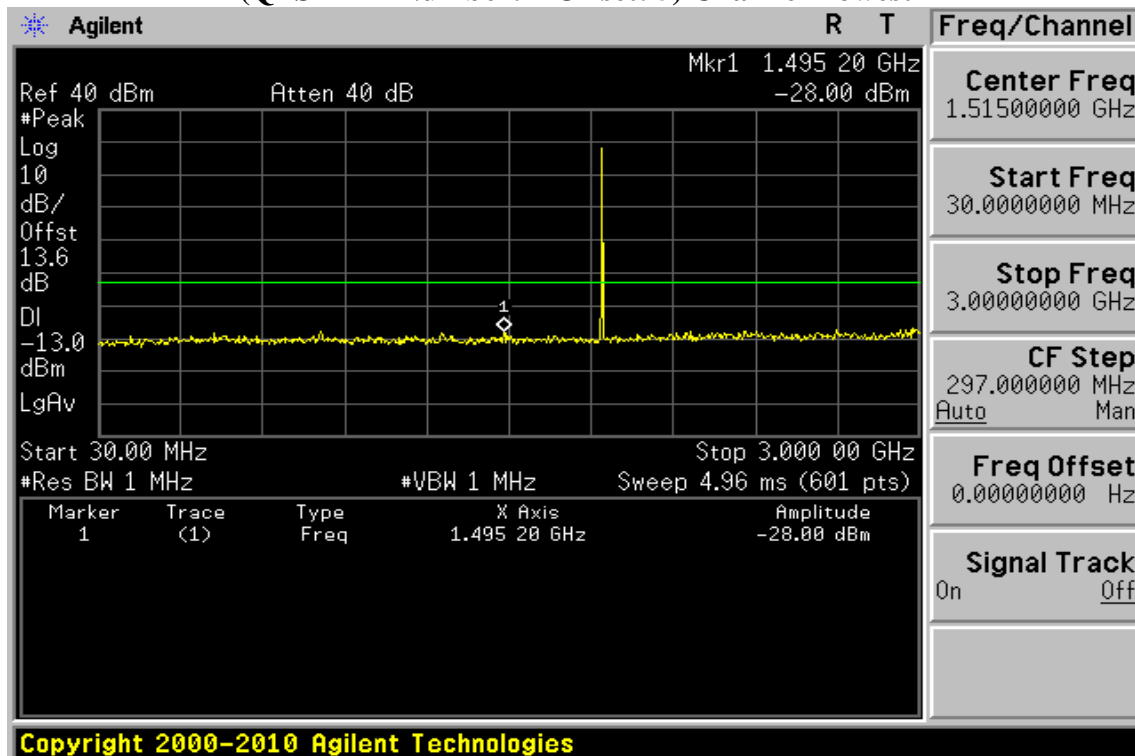
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Figure 9-36: Out of Band emission at antenna terminals – 1.4MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 5) Channel Lowest



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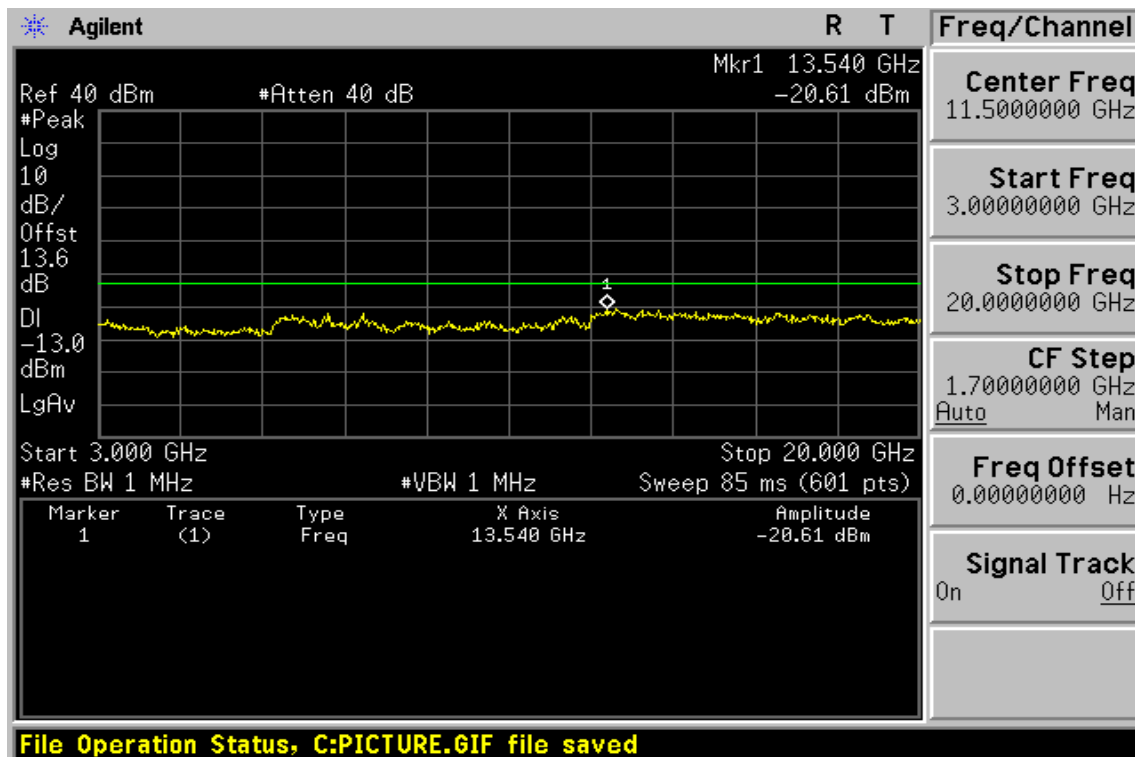
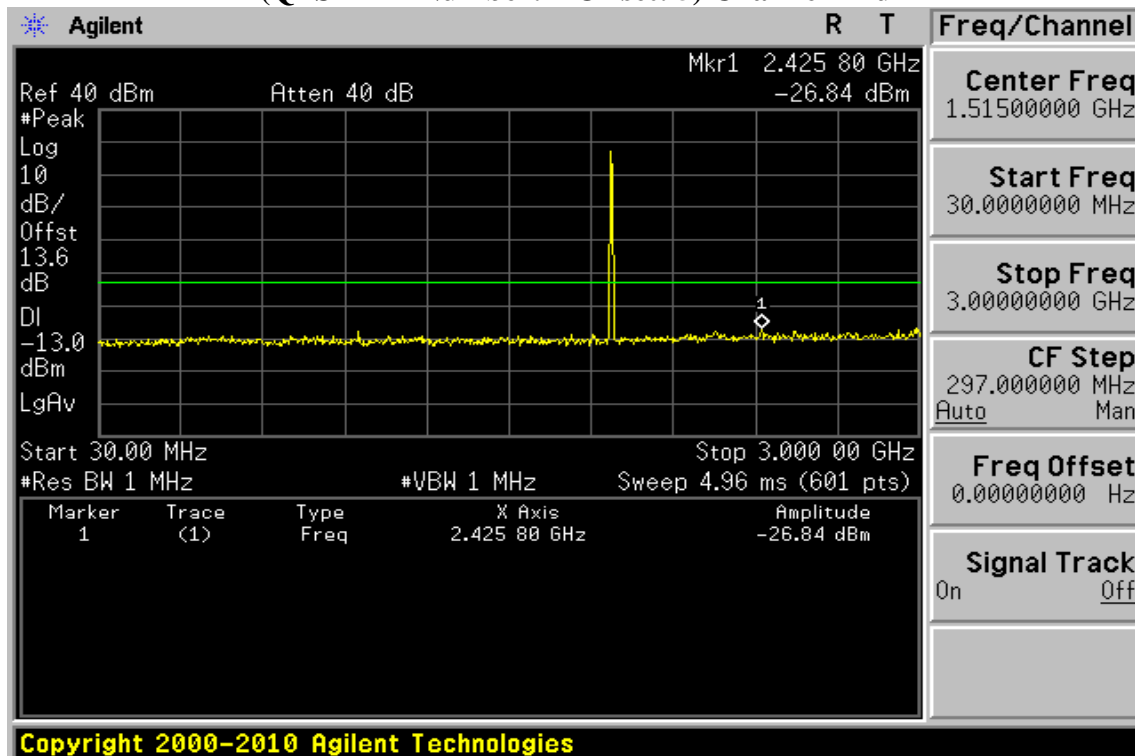
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**Figure 9-37: Out of Band emission at antenna terminals –1.4MHz BW LTE-Band 25
(QPSK RB Number: 1 Offset: 5) Channel Mid**



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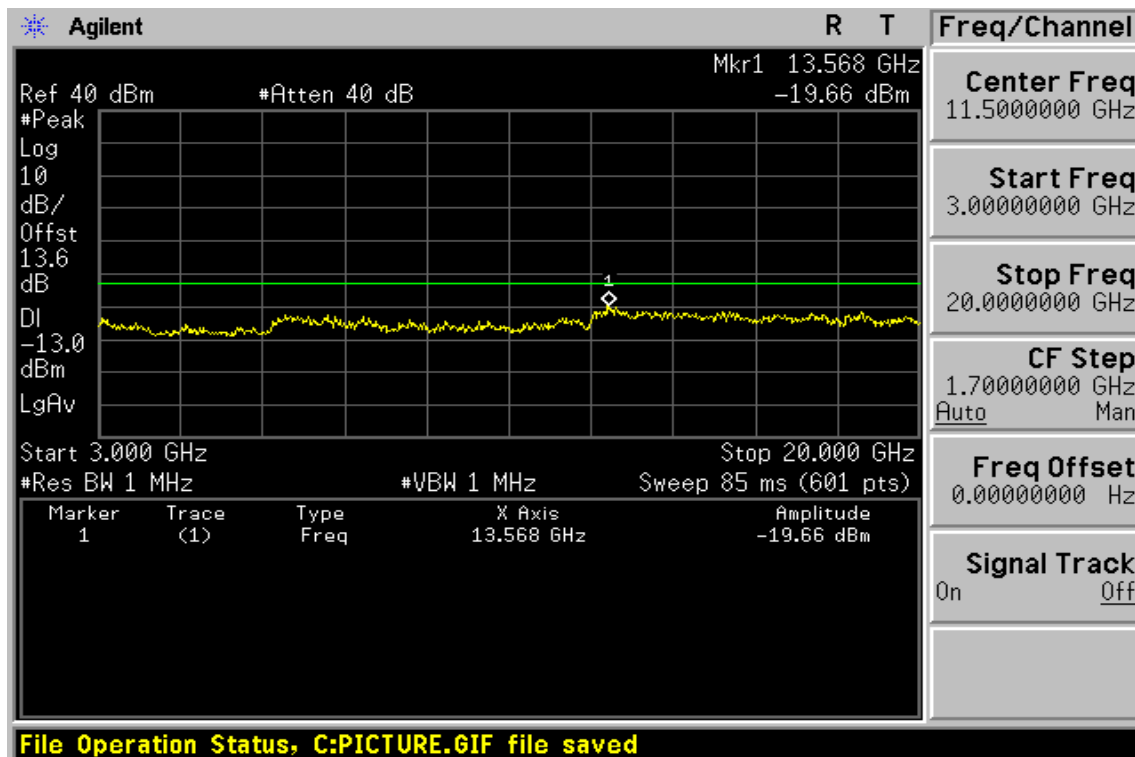
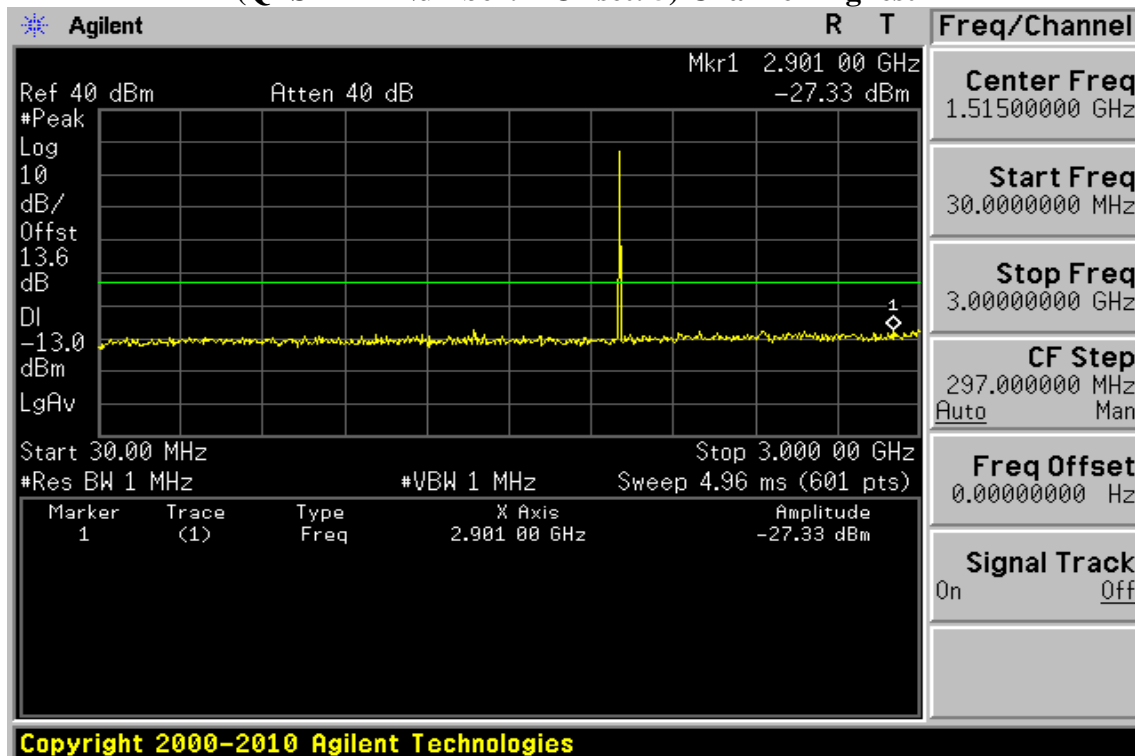
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**Figure 9-38: Out of Band emission at antenna terminals –1.4MHz BW LTE-Band 25
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Figure 9-39: Band edge emission at antenna terminals – 1.4MHz BW LTE-Band 25 (QPSK RB Number: 6 Offset: 0) Channel Lowest

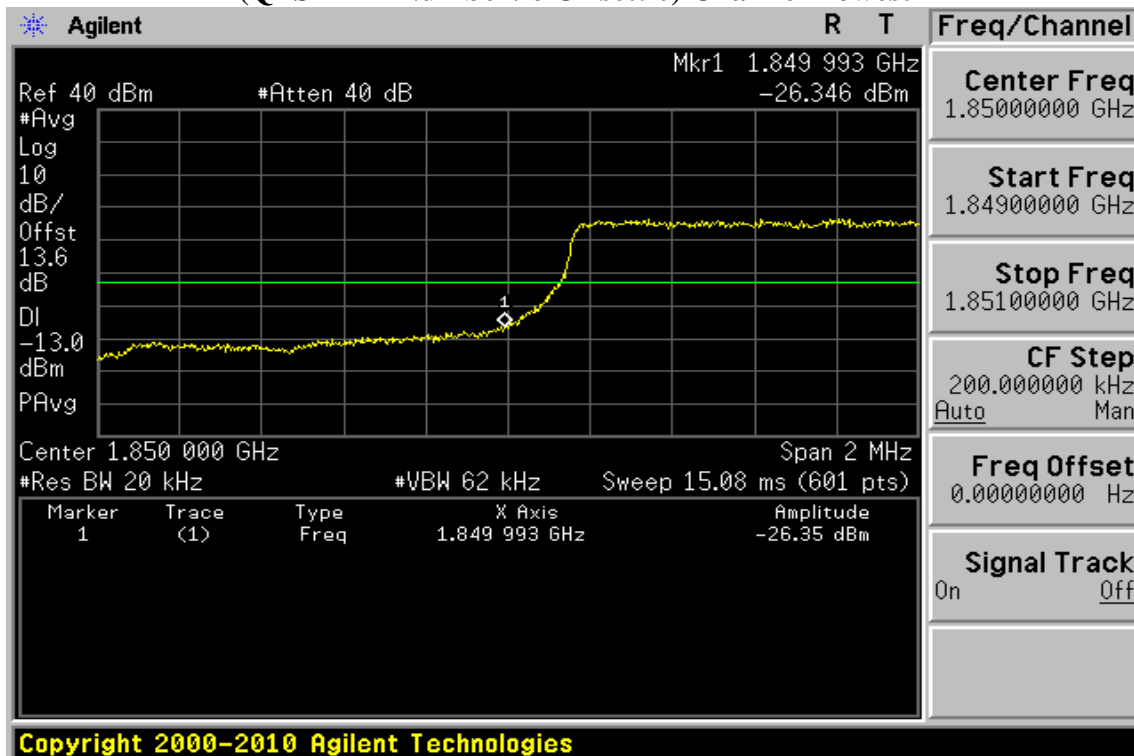
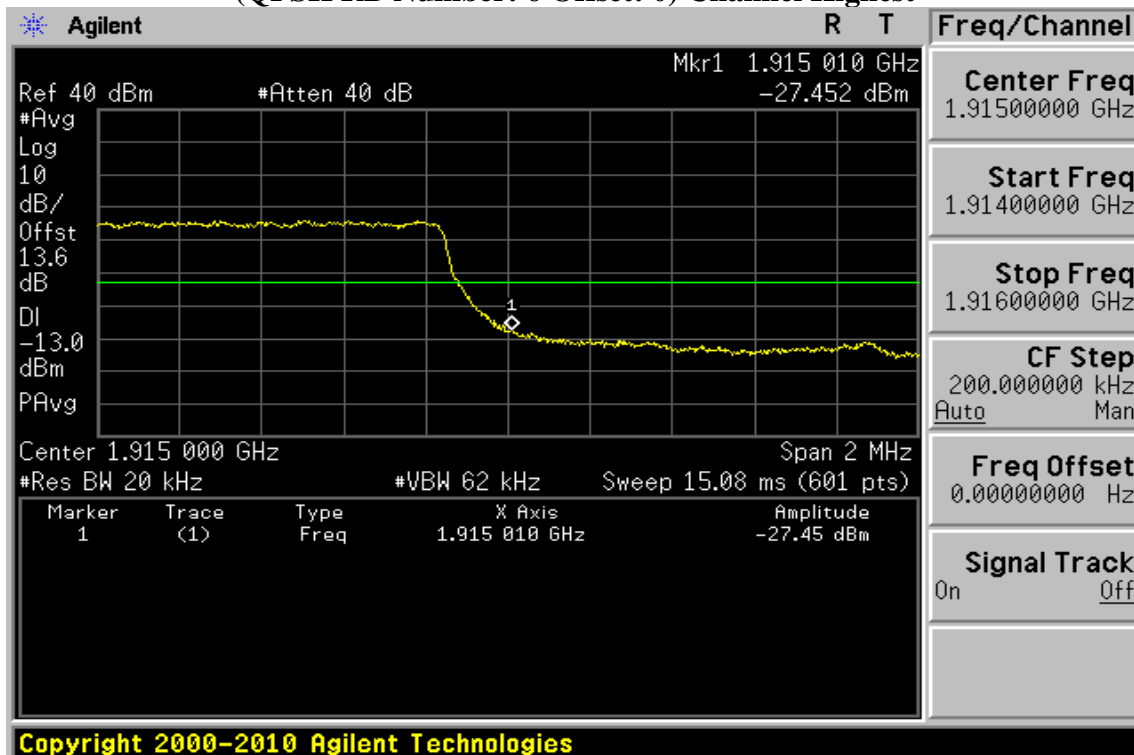


Figure 9-40: Band edge emission at antenna terminals – 1.4MHz BW LTE-Band 25 (QPSK RB Number: 6 Offset: 0) Channel Highest



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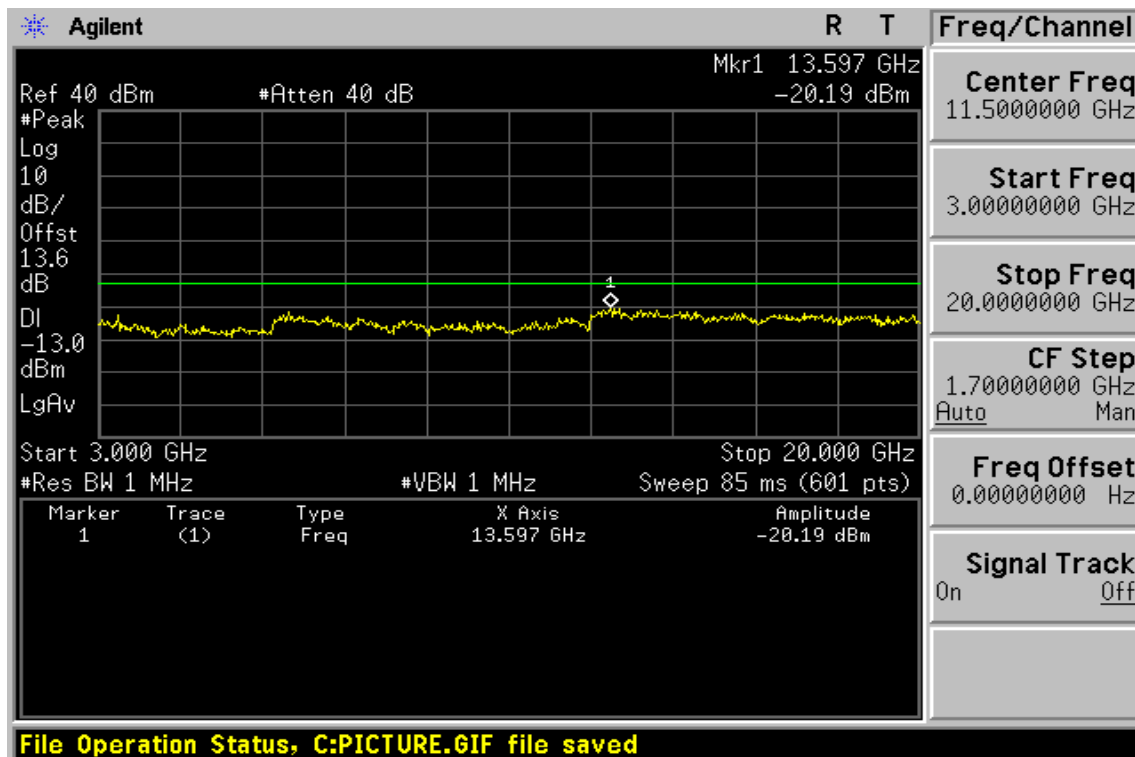
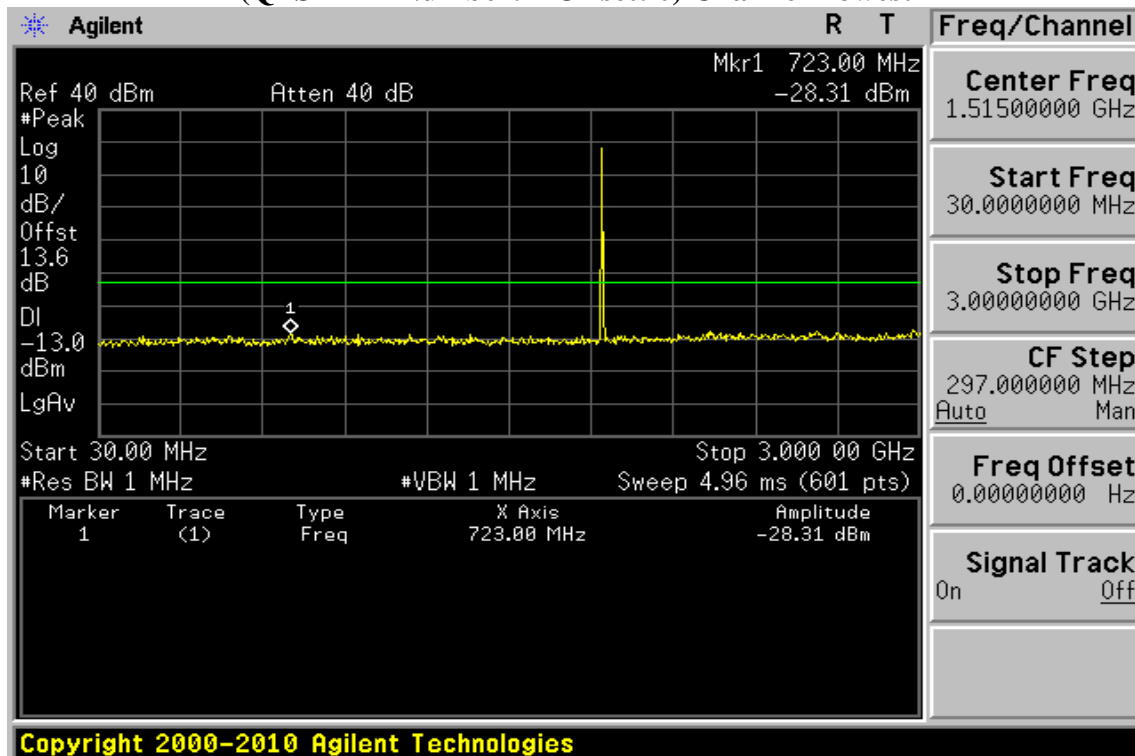
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Figure 9-41: Out of Band emission at antenna terminals – 3MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 0) Channel Lowest



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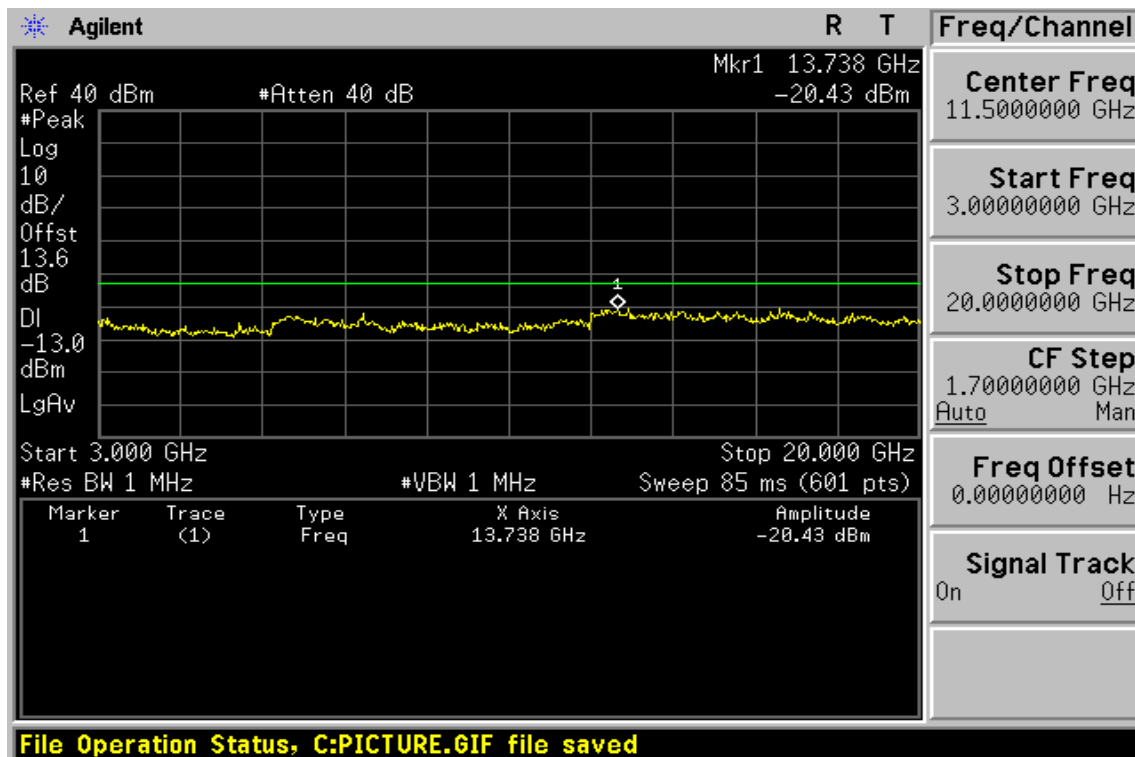
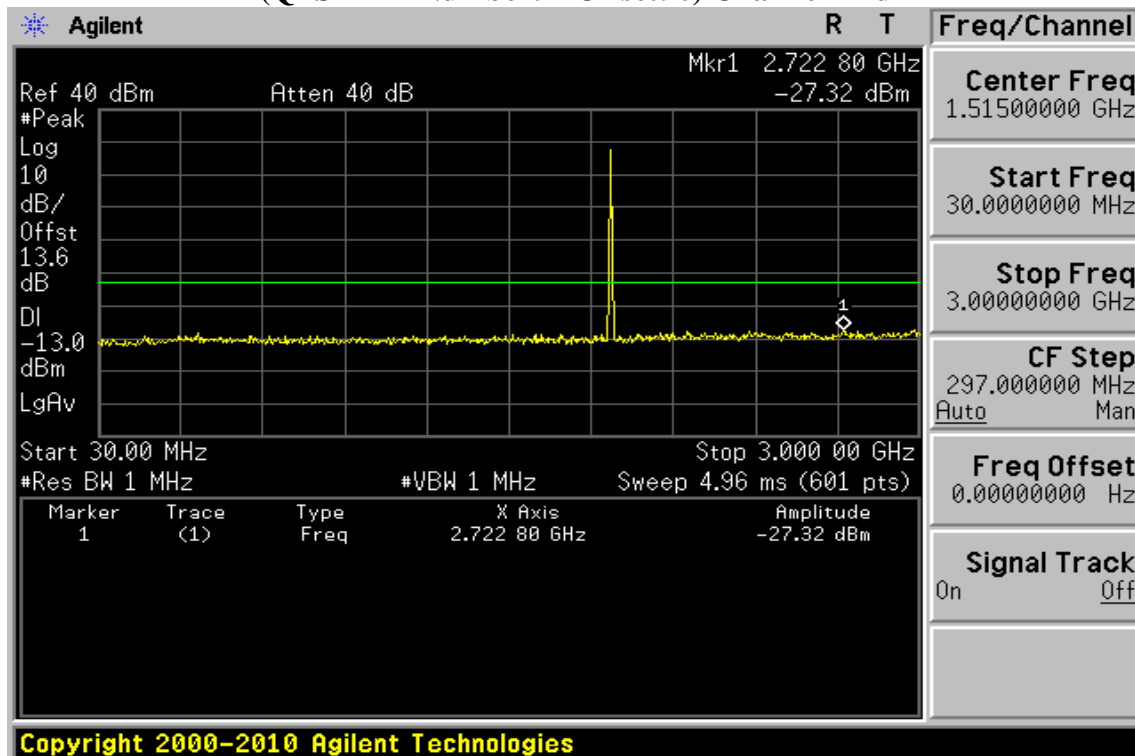
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**Figure 9-42: Out of Band emission at antenna terminals –3MHz BW LTE-Band 25
(QPSK RB Number: 1 Offset: 0) Channel Mid**



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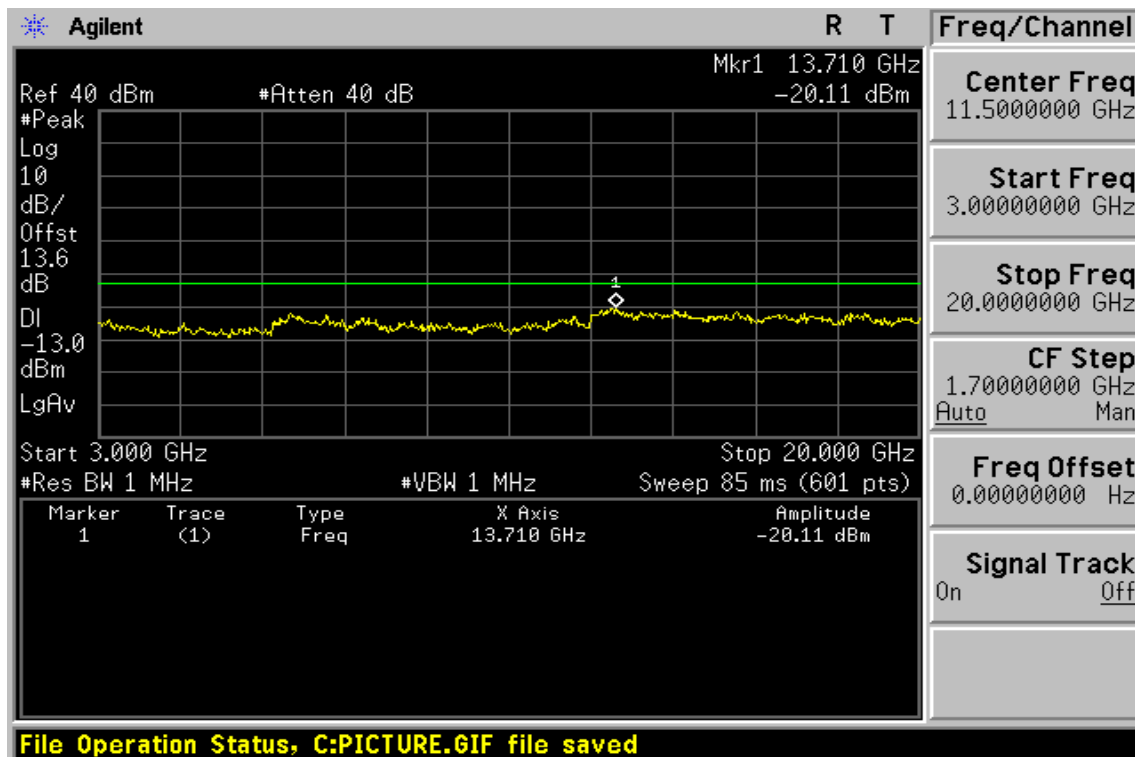
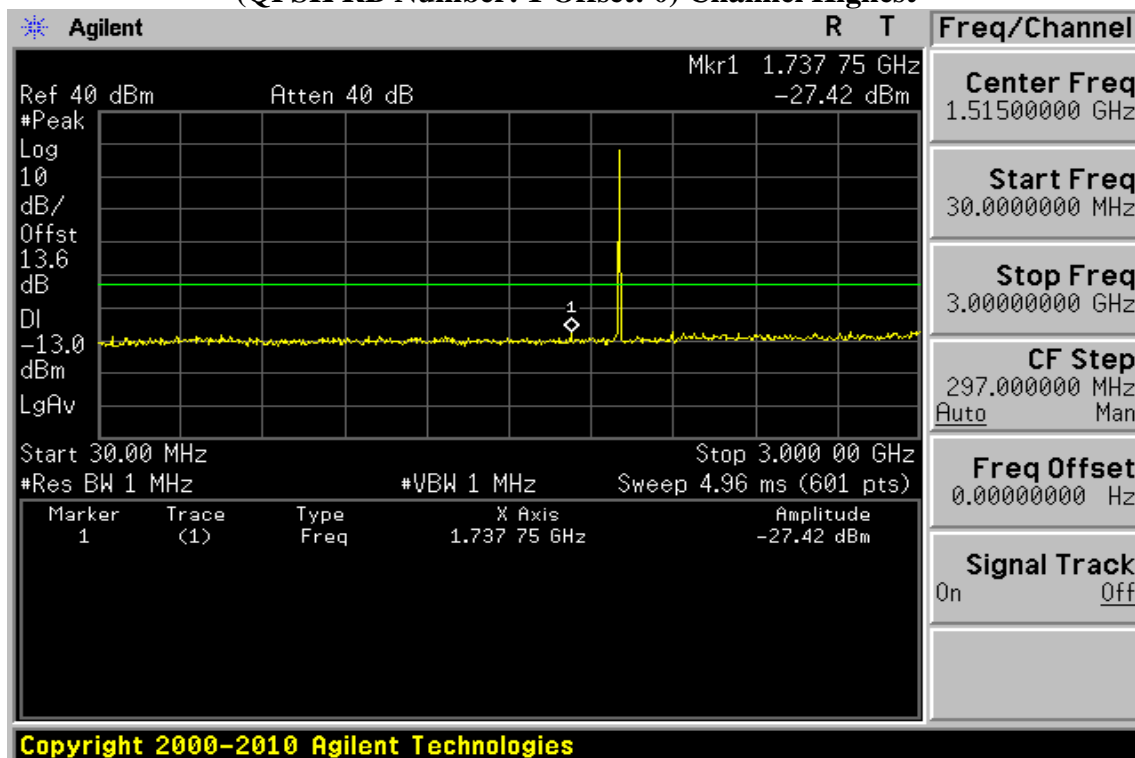
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**Figure 9-43: Out of Band emission at antenna terminals –3MHz BW LTE-Band 25
(QPSK RB Number: 1 Offset: 0) Channel Highest**



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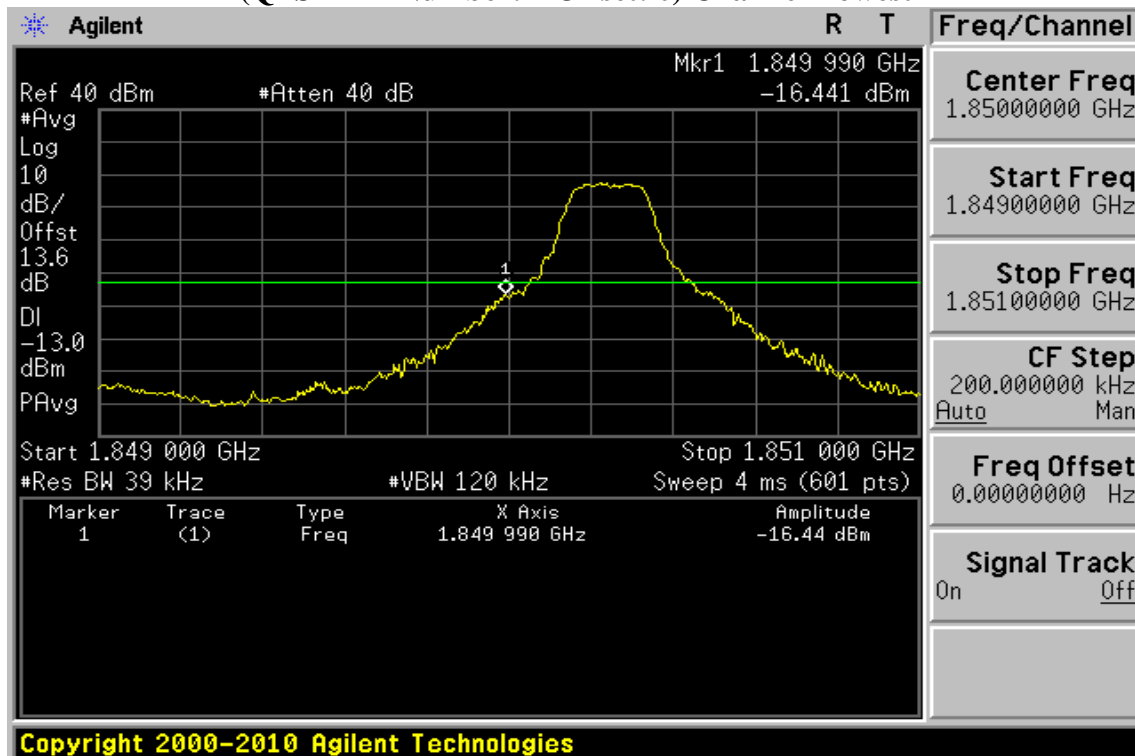
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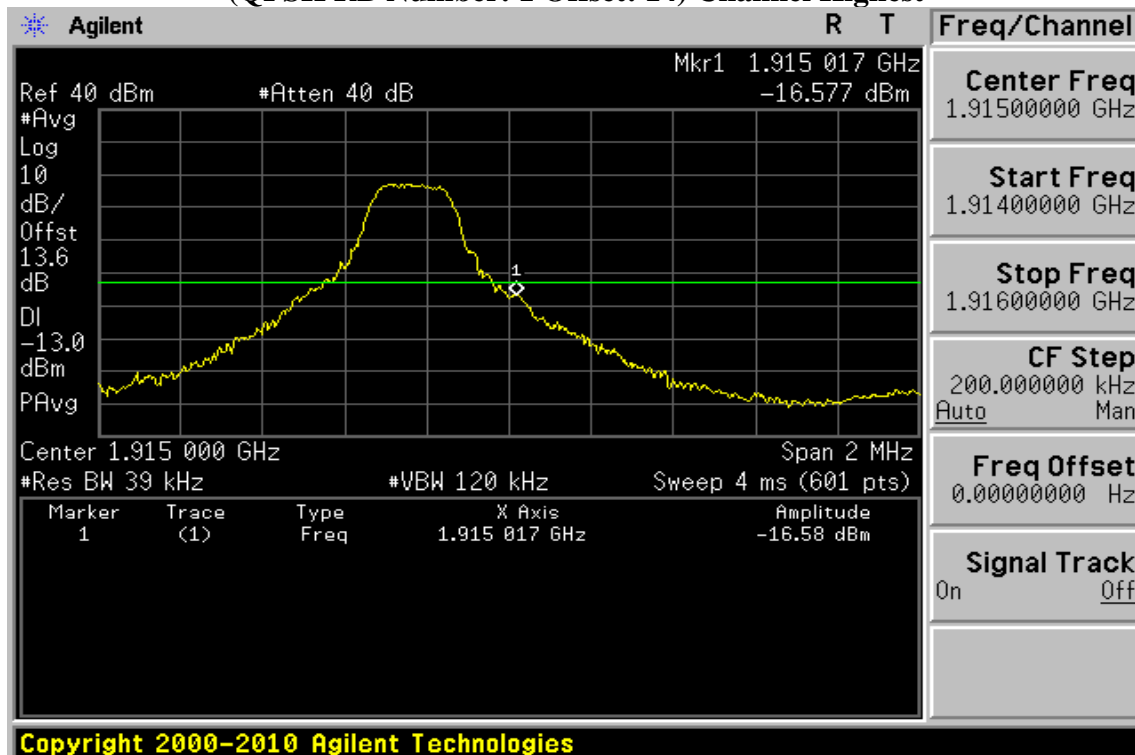
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**Figure 9-44: Band edge emission at antenna terminals – 3MHz BW LTE-Band 25
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Figure 9-45: Band edge emission at antenna terminals – 3MHz BW LTE-Band 25
(QPSK RB Number: 1 Offset: 14) Channel Highest**



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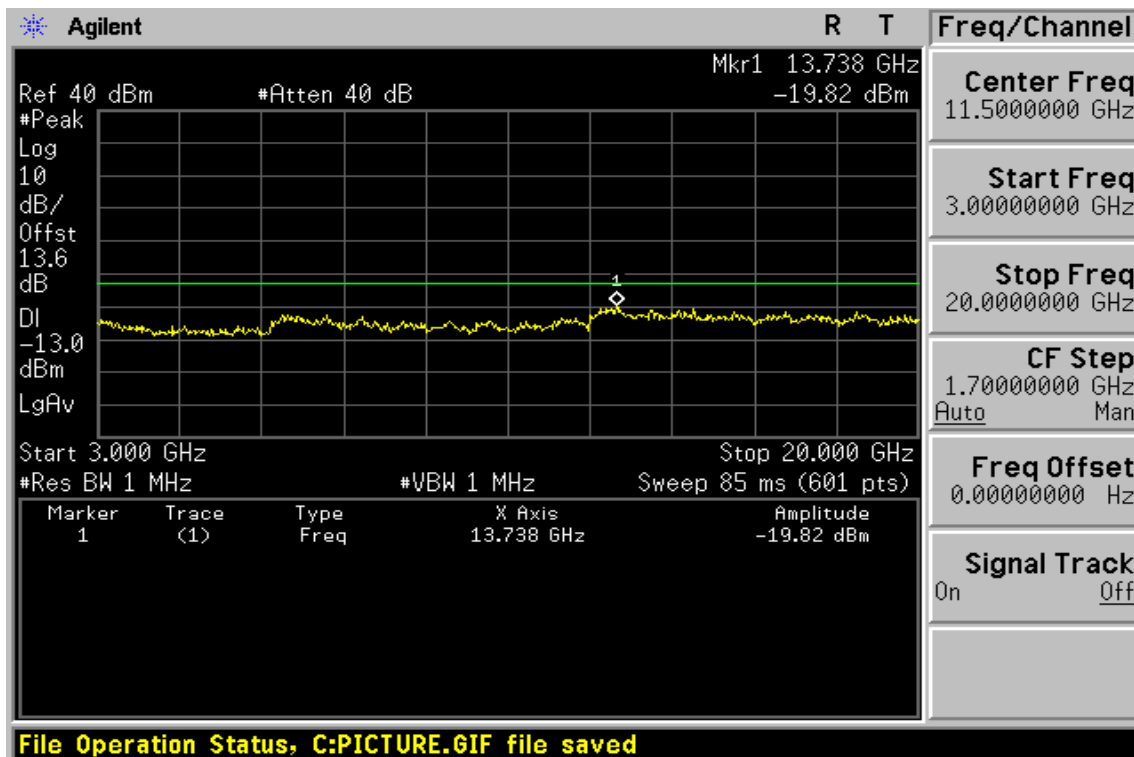
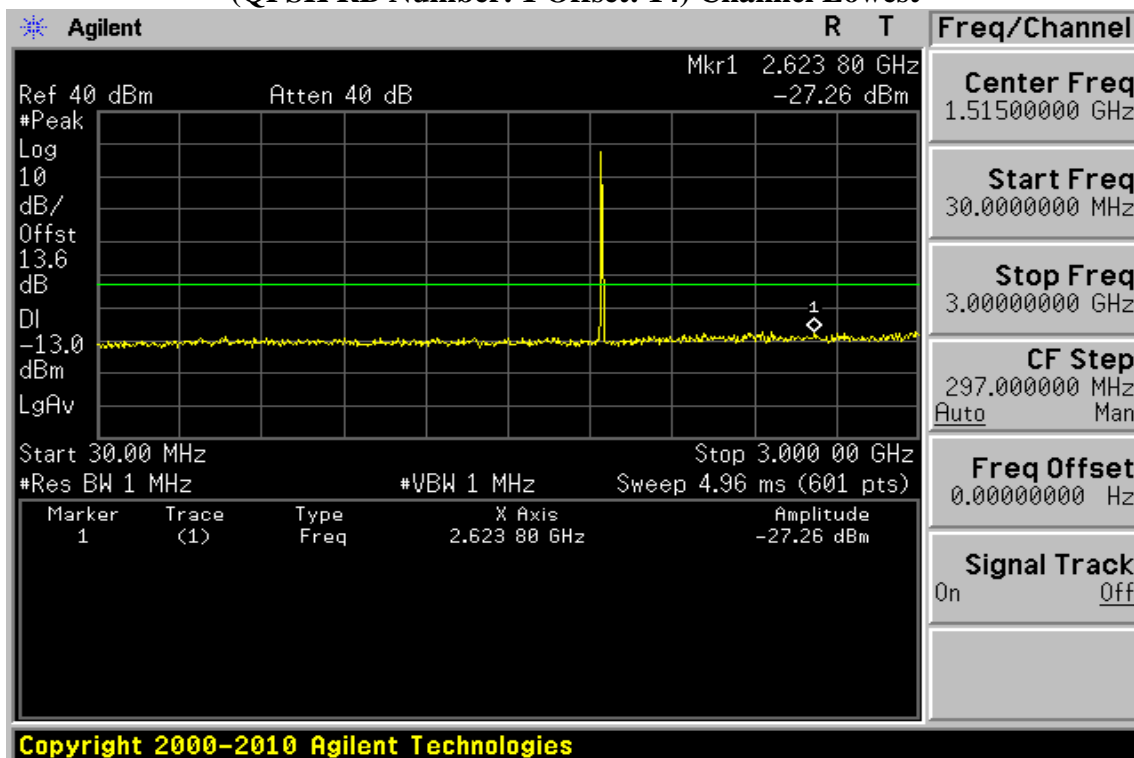
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**Figure 9-46: Out of Band emission at antenna terminals – 3MHz BW LTE-Band 25
(QPSK RB Number: 1 Offset: 14) Channel Lowest**



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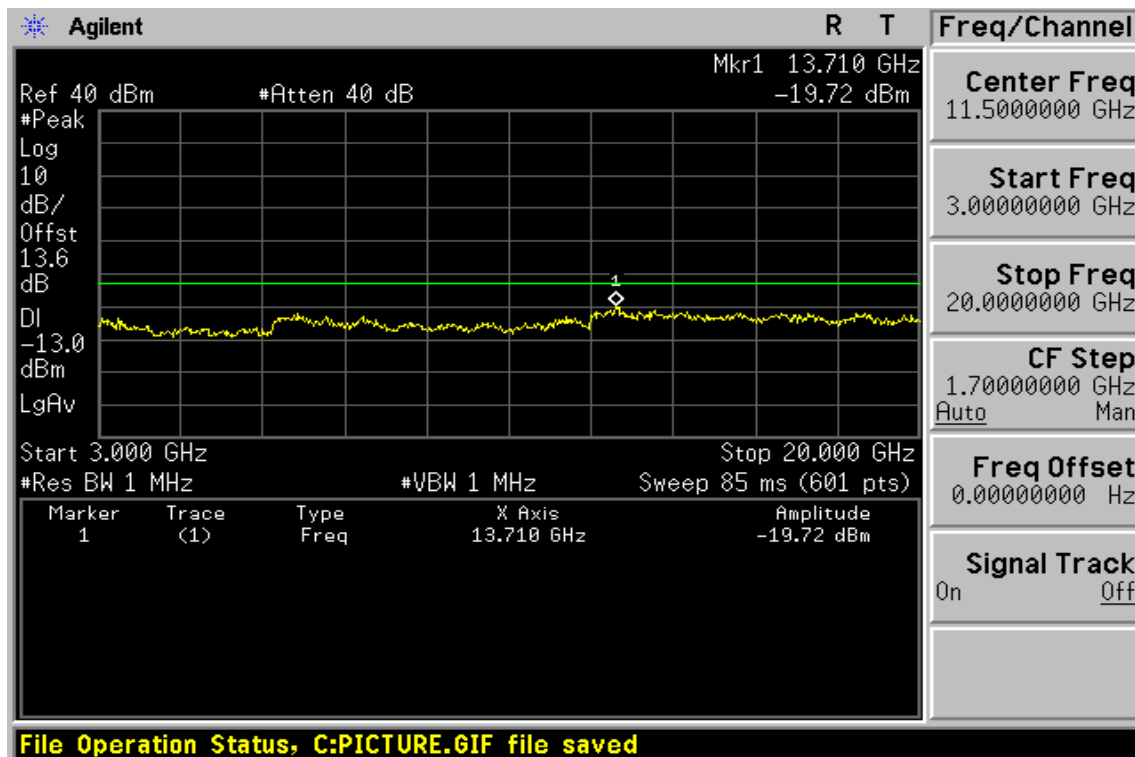
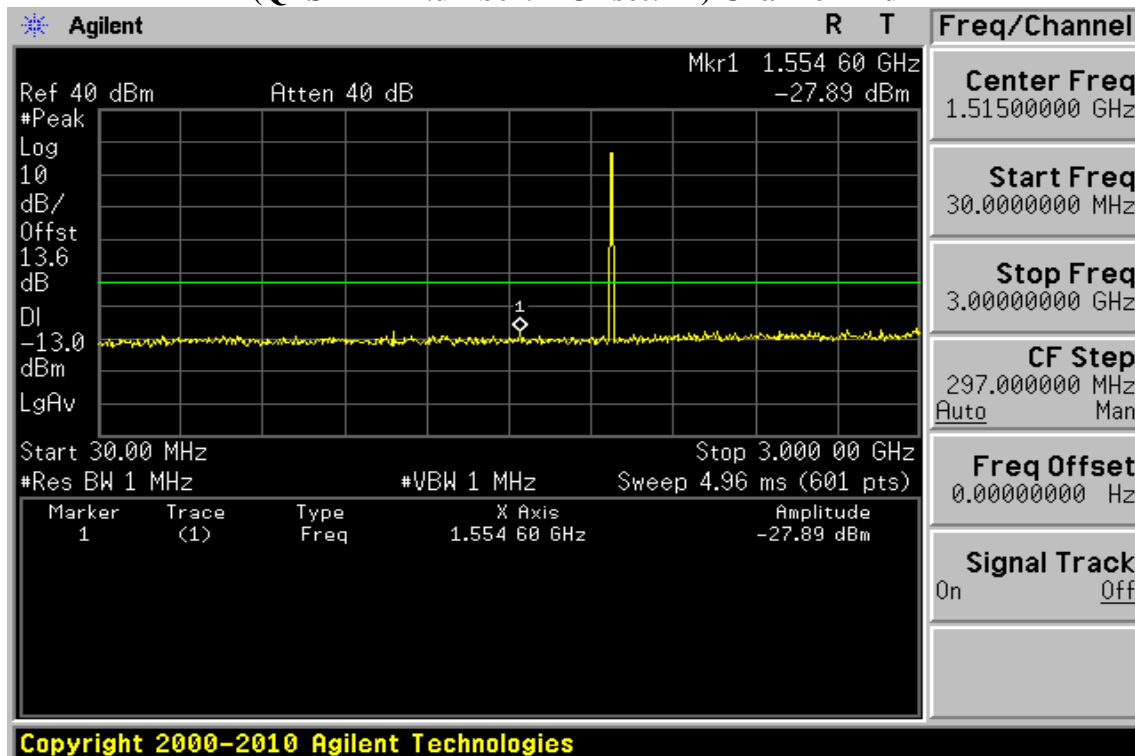
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**Figure 9-47: Out of Band emission at antenna terminals –3MHz BW LTE-Band 25
(QPSK RB Number: 1 Offset: 14) Channel Mid**



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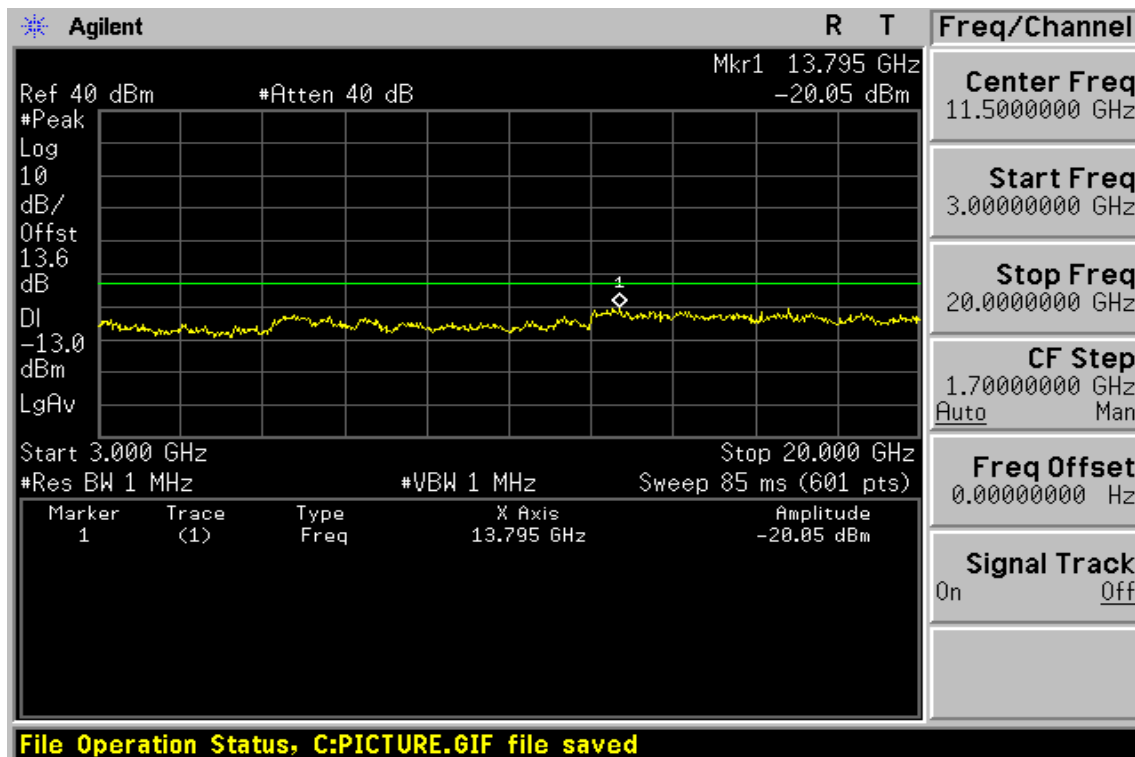
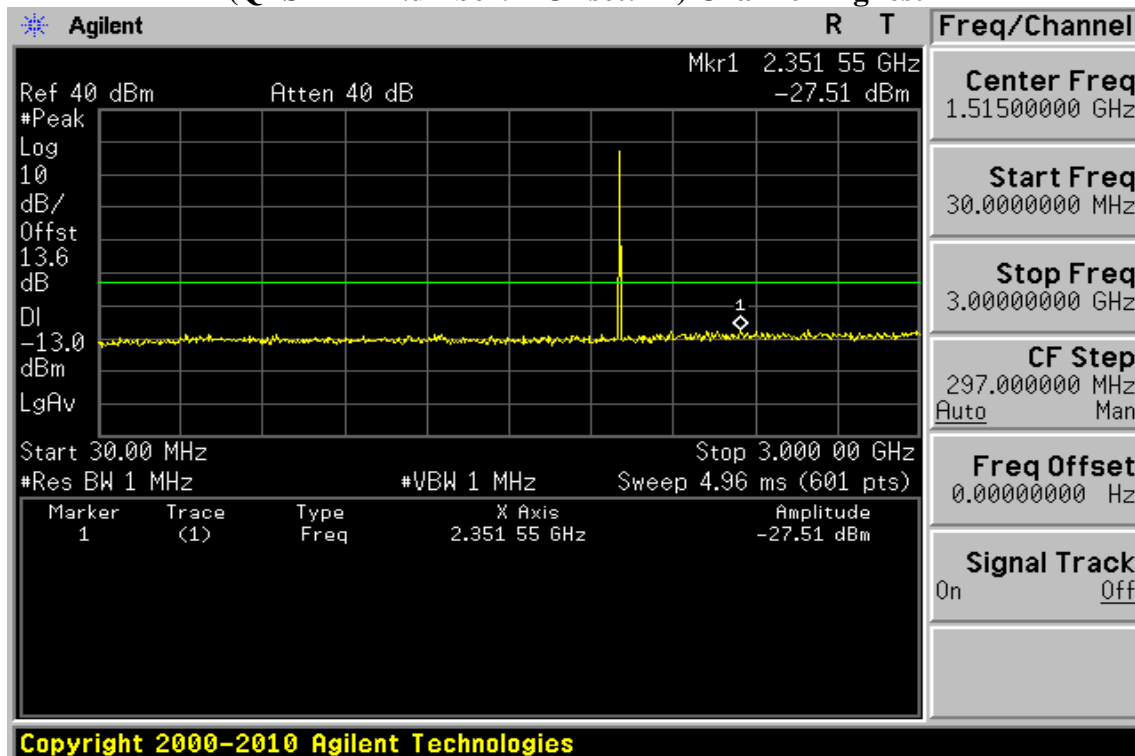
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**Figure 9-48: Out of Band emission at antenna terminals –3MHz BW LTE-Band 25
(QPSK RB Number: 1 Offset: 14) Channel Highest**



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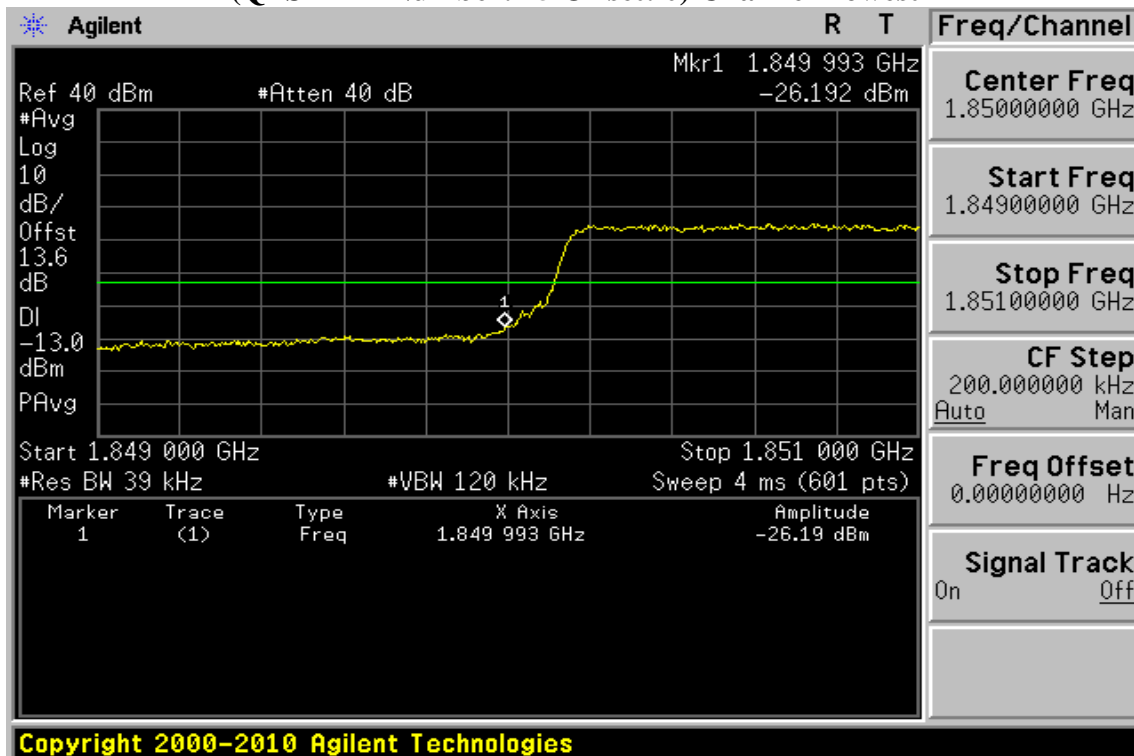
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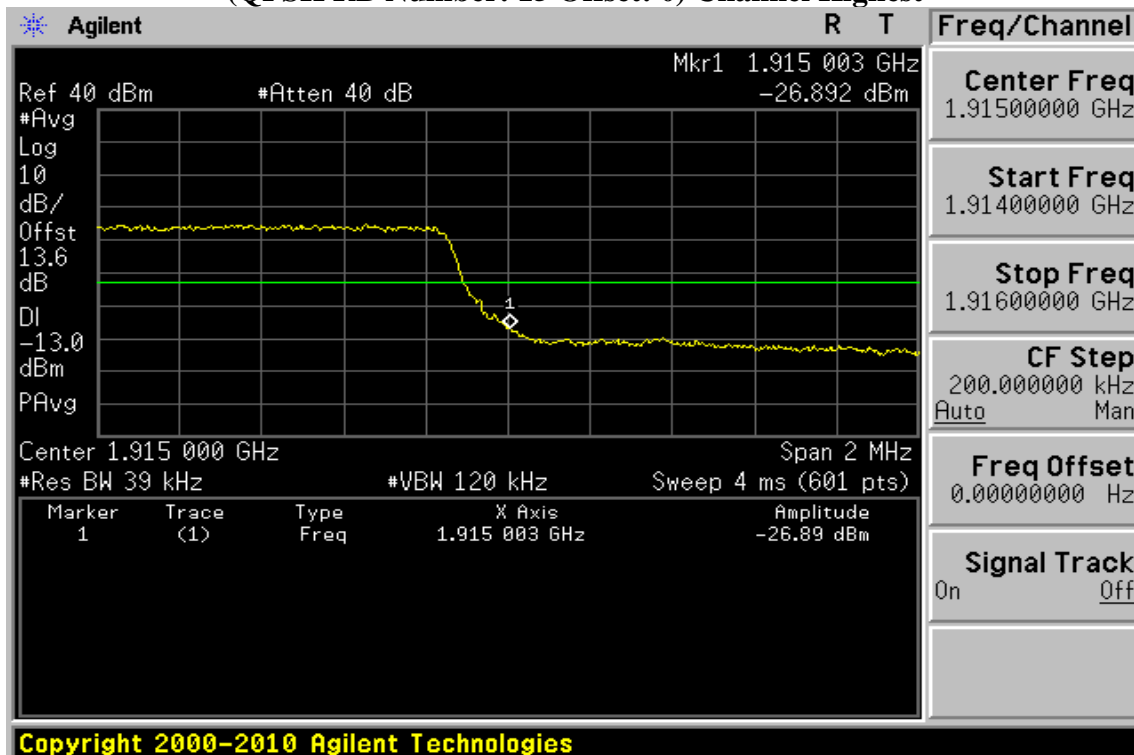
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**Figure 9-49: Band edge emission at antenna terminals – 3MHz BW LTE-Band 25
(QPSK RB Number: 15 Offset: 0) Channel Lowest**



**Figure 9-50: Band edge emission at antenna terminals – 3MHz BW LTE-Band 25
(QPSK RB Number: 15 Offset: 0) Channel Highest**



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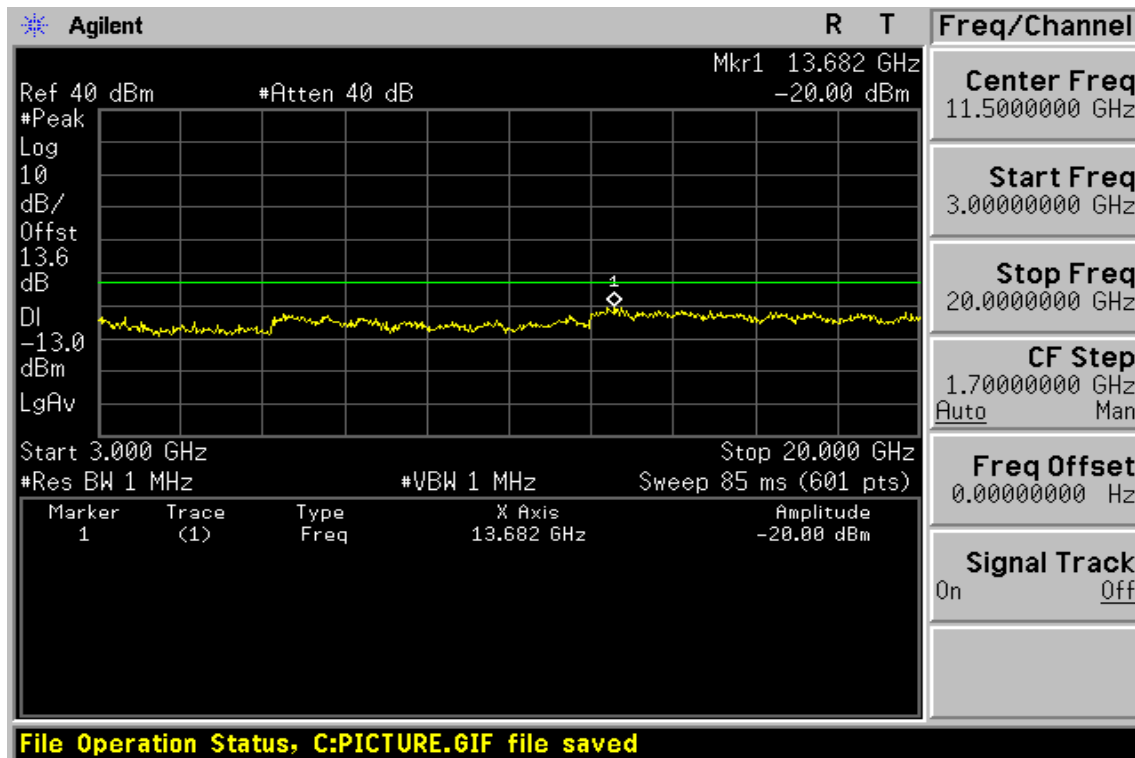
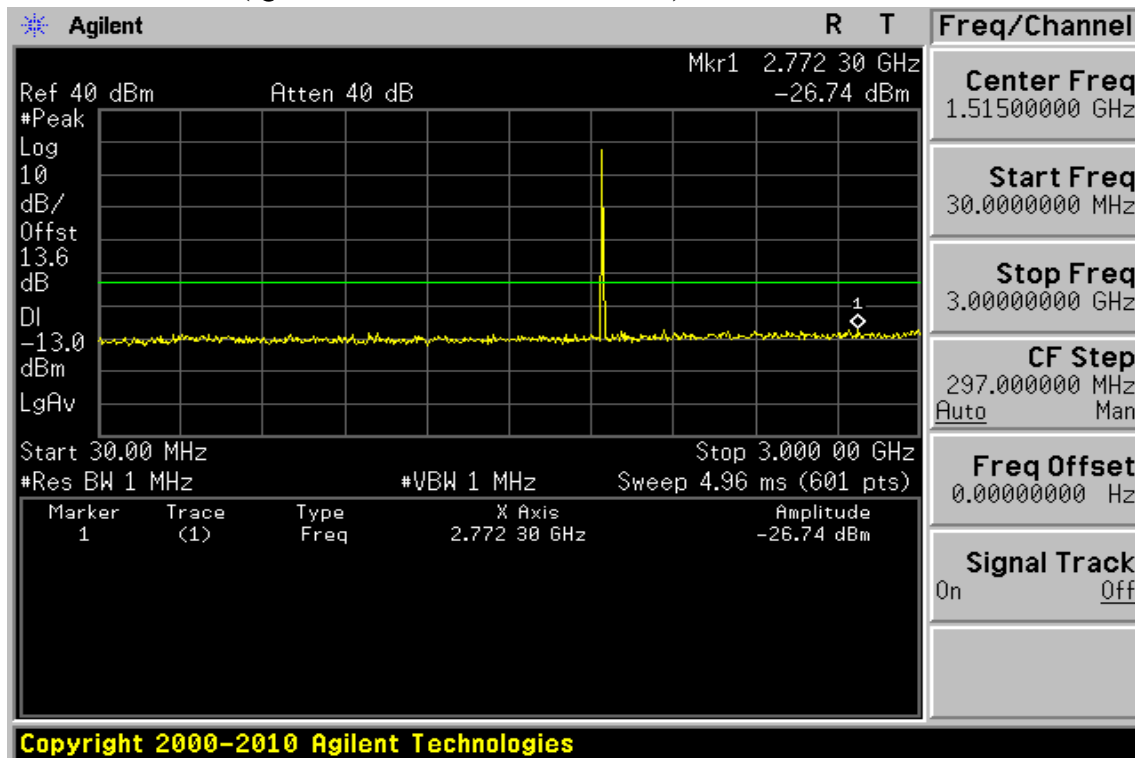
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**Figure 9-51: Out of Band emission at antenna terminals – 5MHz BW LTE-Band 25
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



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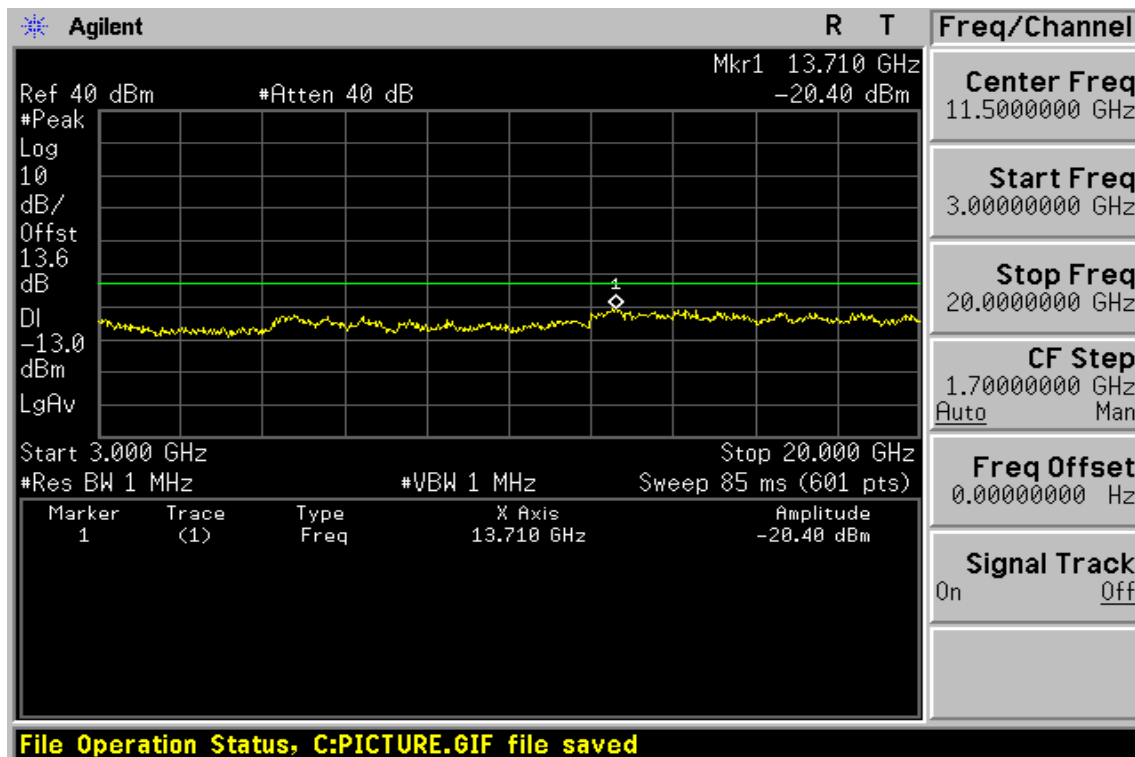
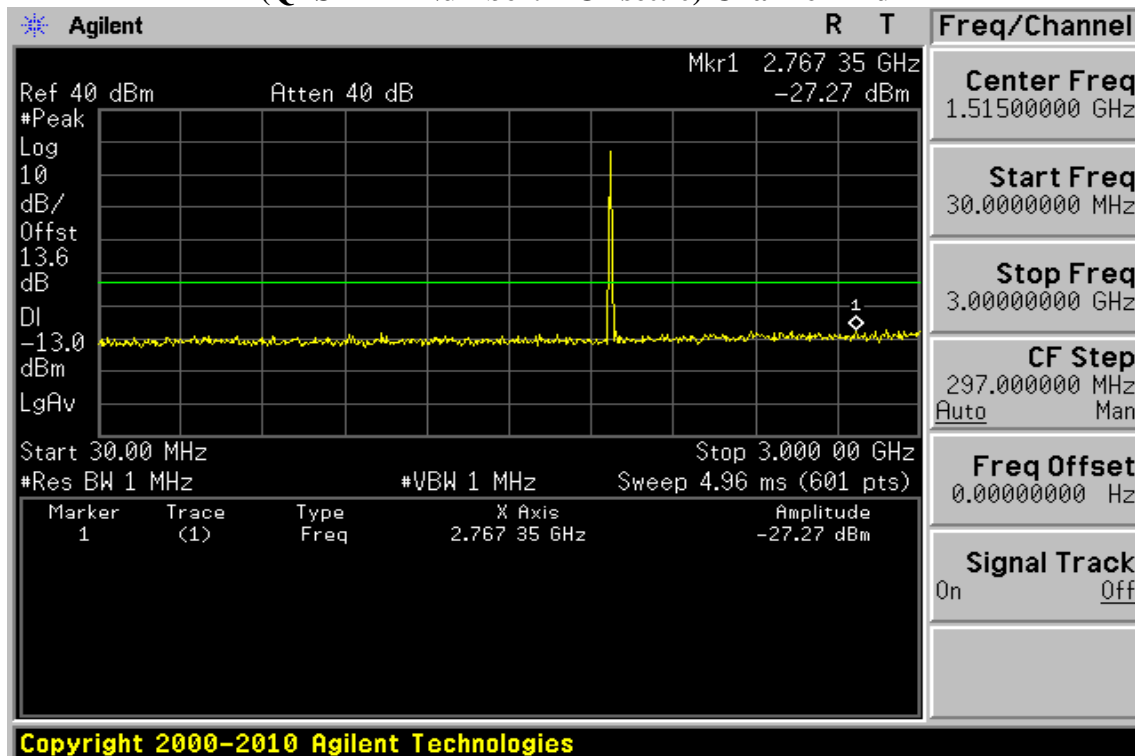
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**Figure 9-52: Out of Band emission at antenna terminals – 5MHz BW LTE-Band 25
(QPSK RB Number: 1 Offset: 0) Channel Mid**



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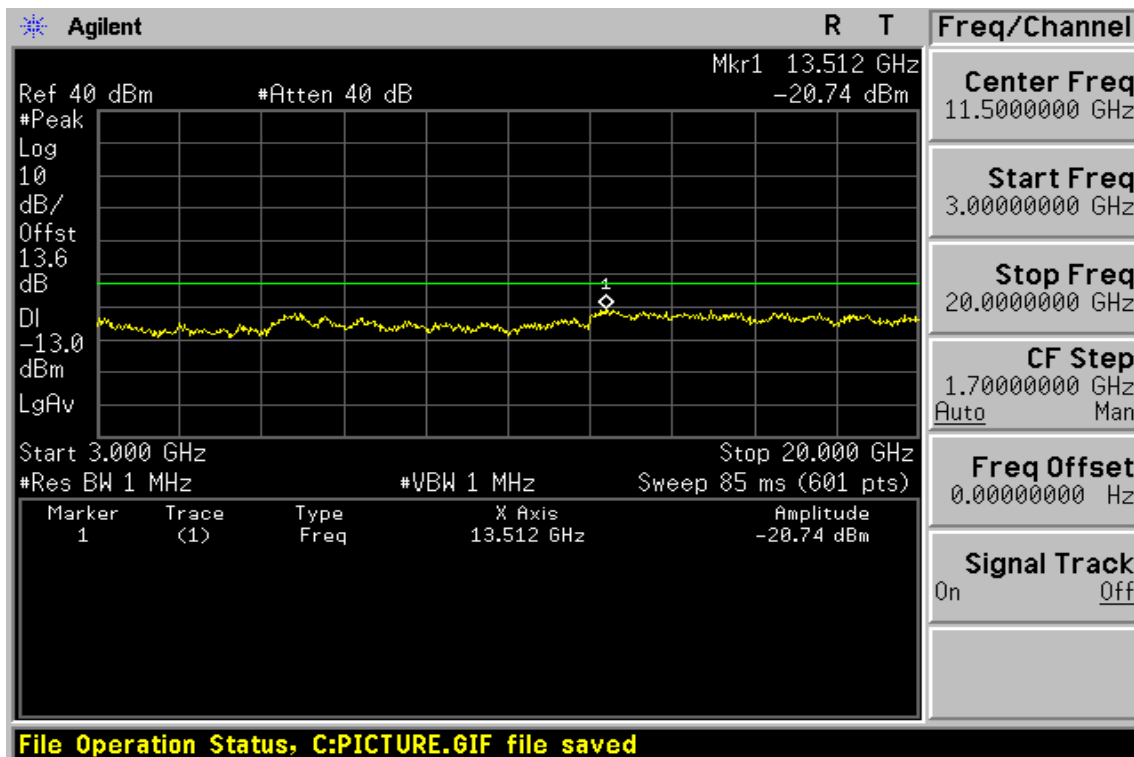
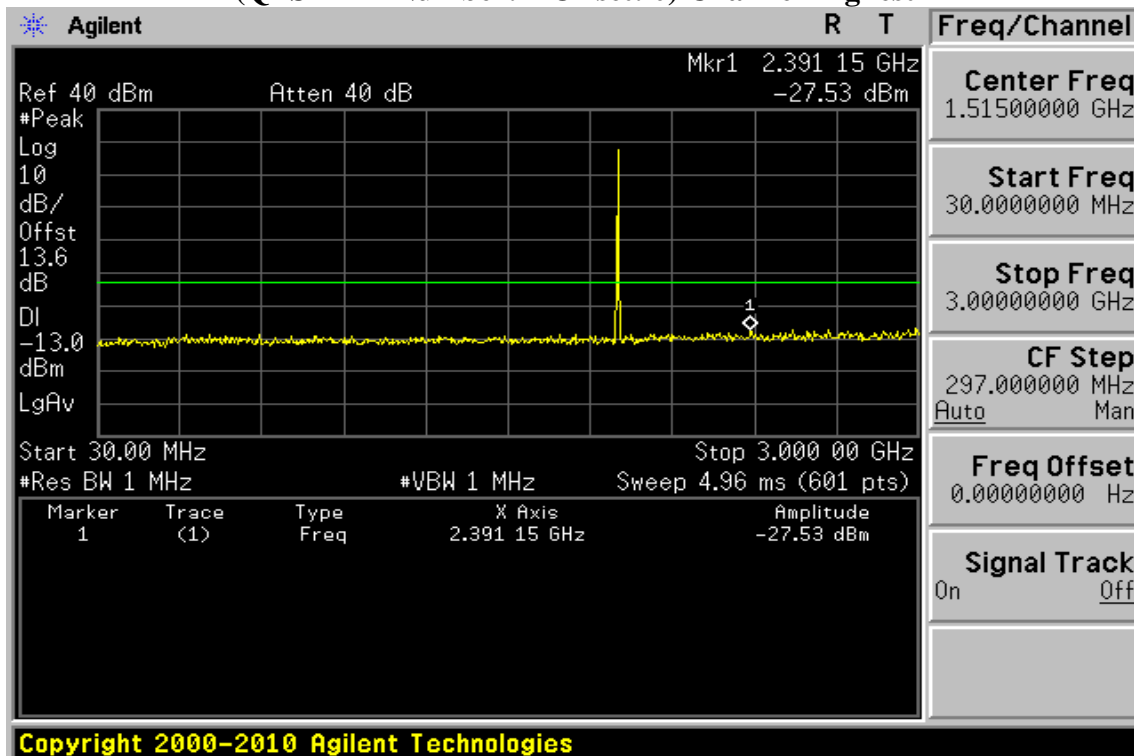
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**Figure 9-53: Out of Band emission at antenna terminals –5MHz BW LTE-Band 25
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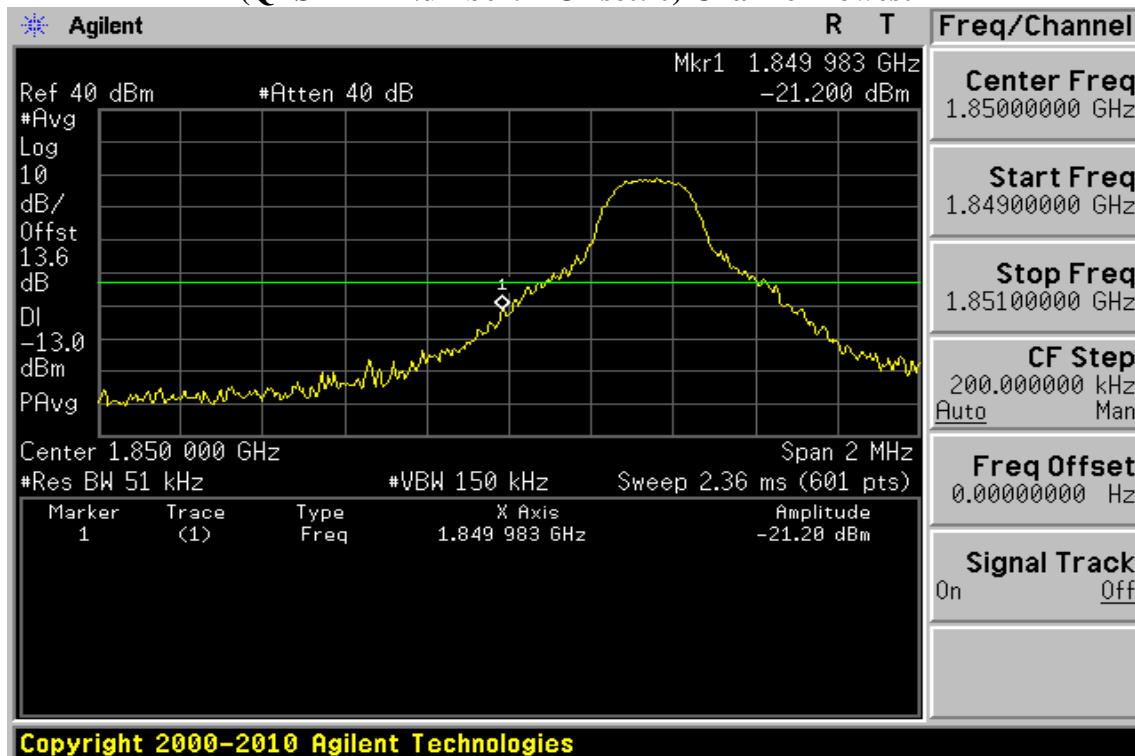
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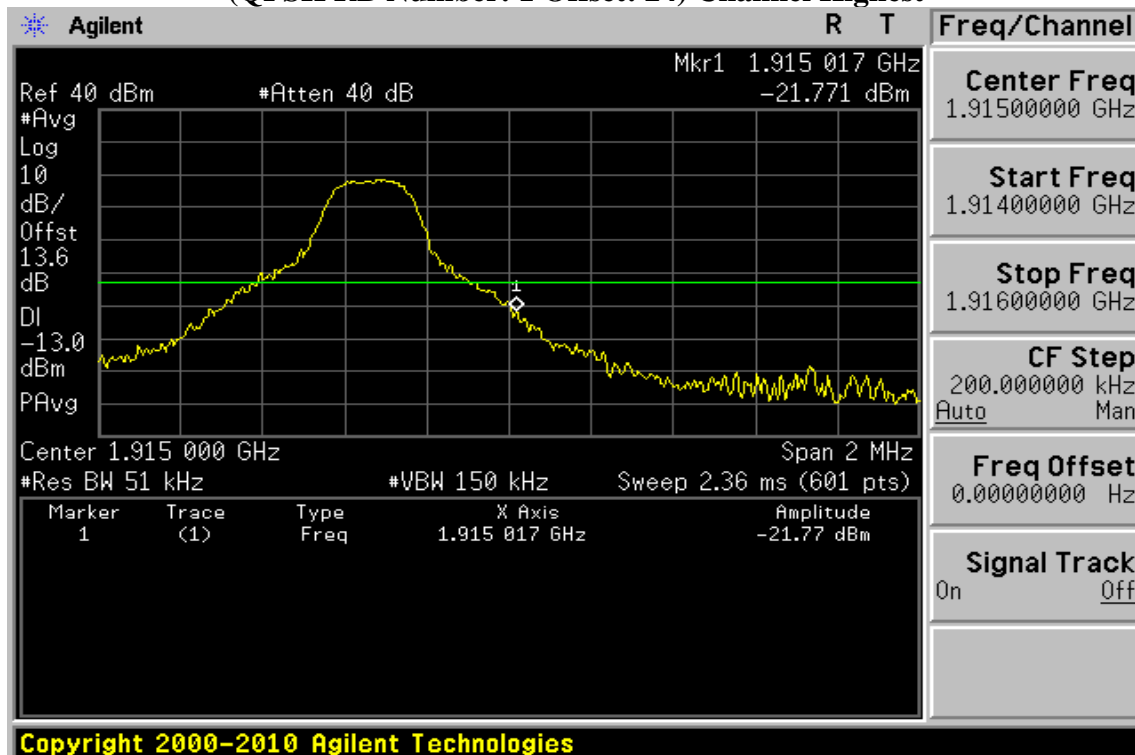
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**Figure 9-54: Band edge emission at antenna terminals – 5MHz BW LTE-Band 25
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Figure 9-55: Band edge emission at antenna terminals – 5MHz BW LTE-Band 25
(QPSK RB Number: 1 Offset: 24) Channel Highest**



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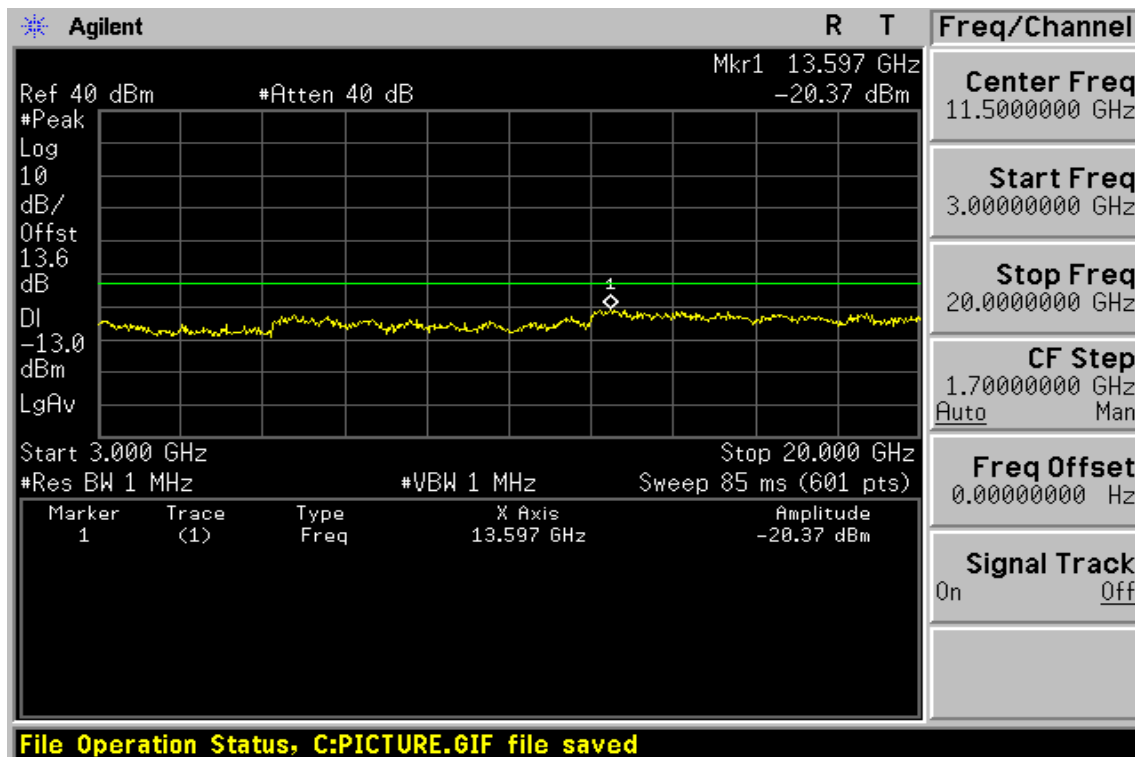
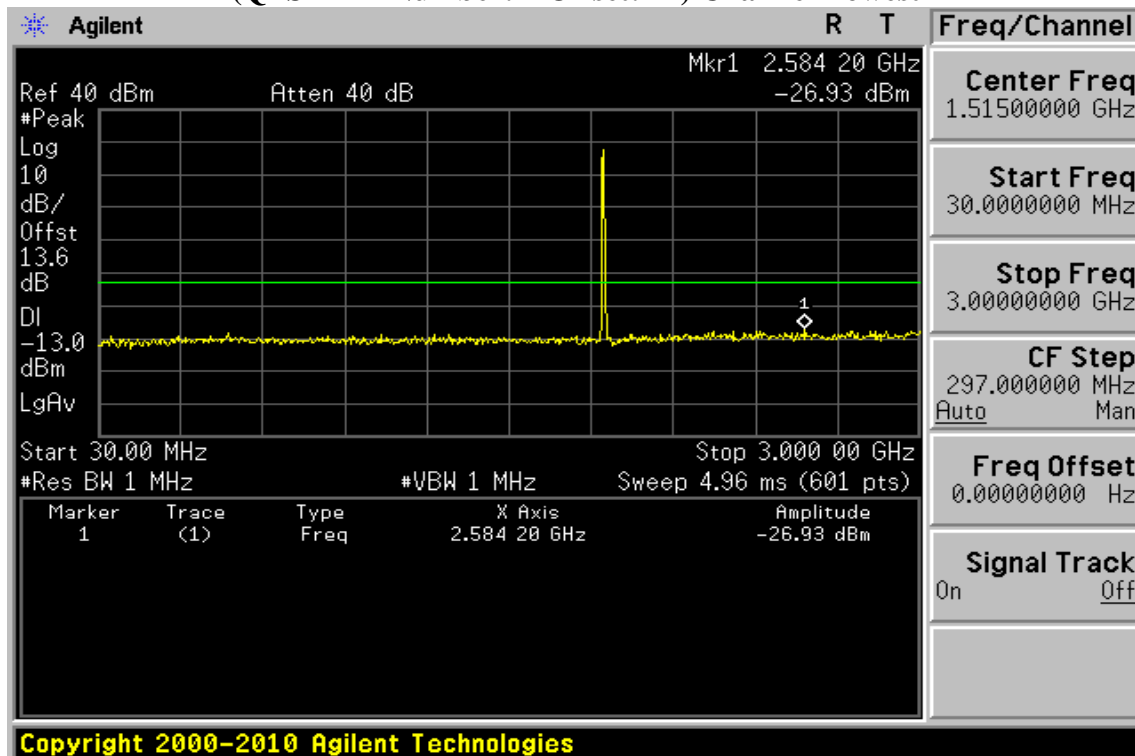
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**Figure 9-56: Out of Band emission at antenna terminals – 5MHz BW LTE-Band 25
(QPSK RB Number: 1 Offset: 24) Channel Lowest**



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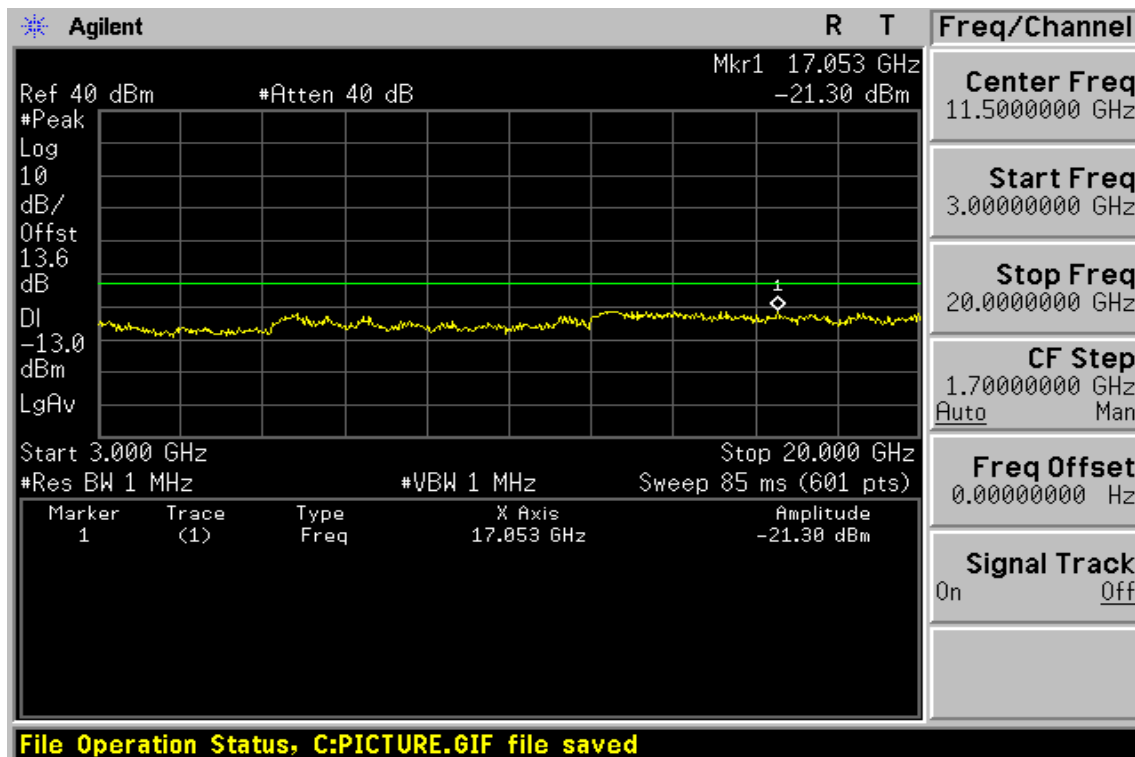
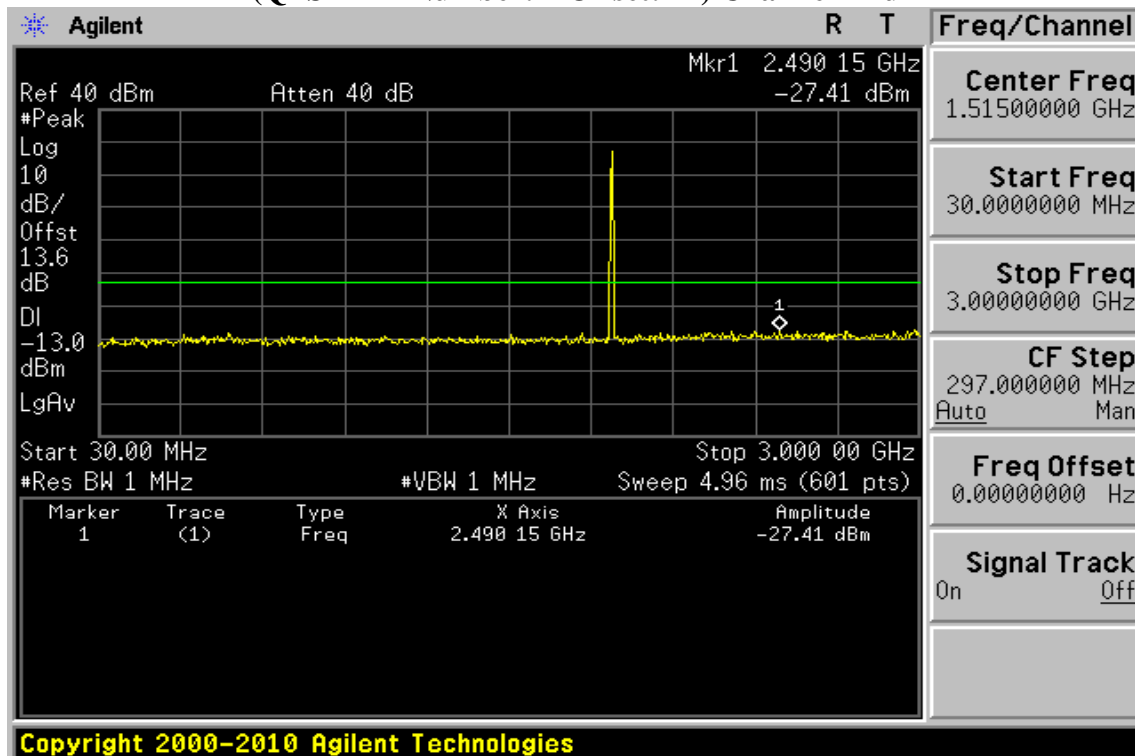
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**Figure 9-57: Out of Band emission at antenna terminals –5MHz BW LTE-Band 25
(QPSK RB Number: 1 Offset: 24) Channel Mid**



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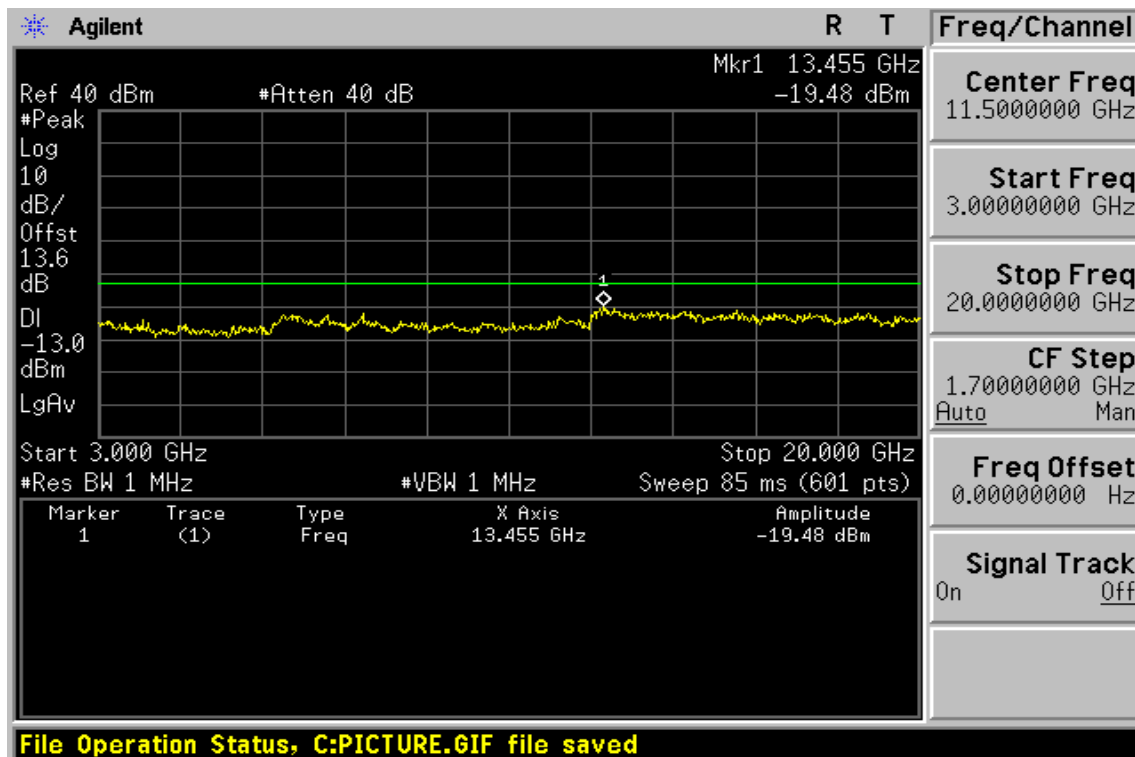
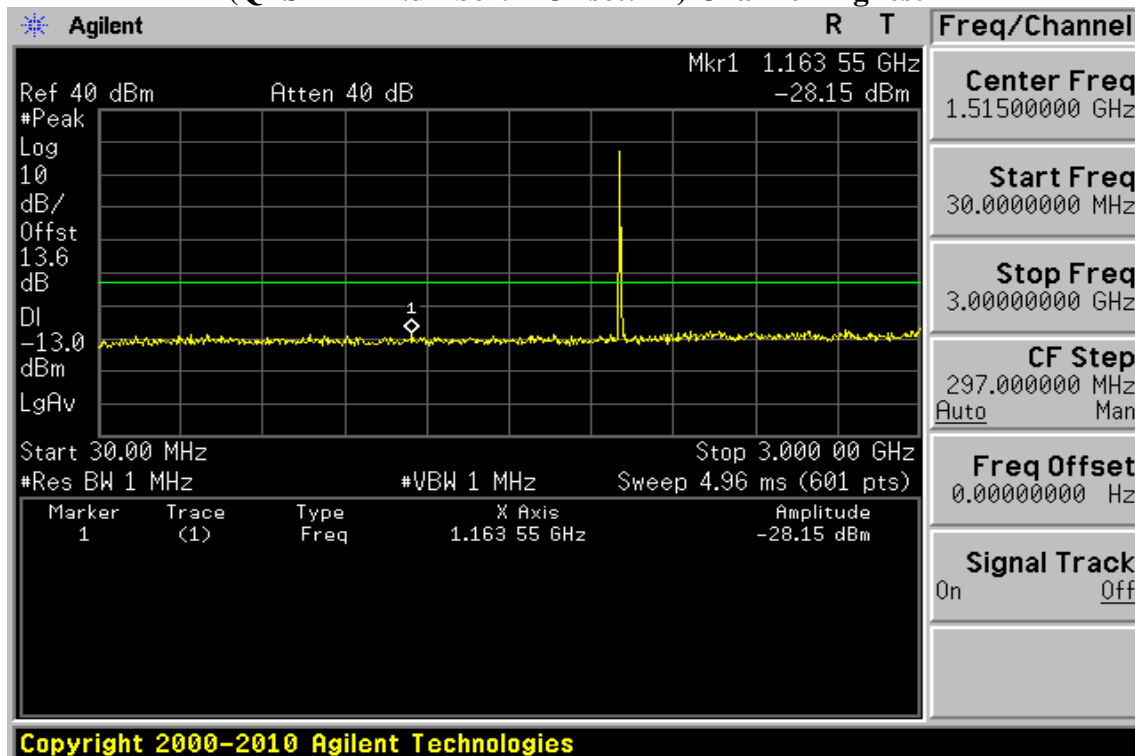
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**Figure 9-58: Out of Band emission at antenna terminals –5MHz BW LTE-Band 25
(QPSK RB Number: 1 Offset: 24) Channel Highest**



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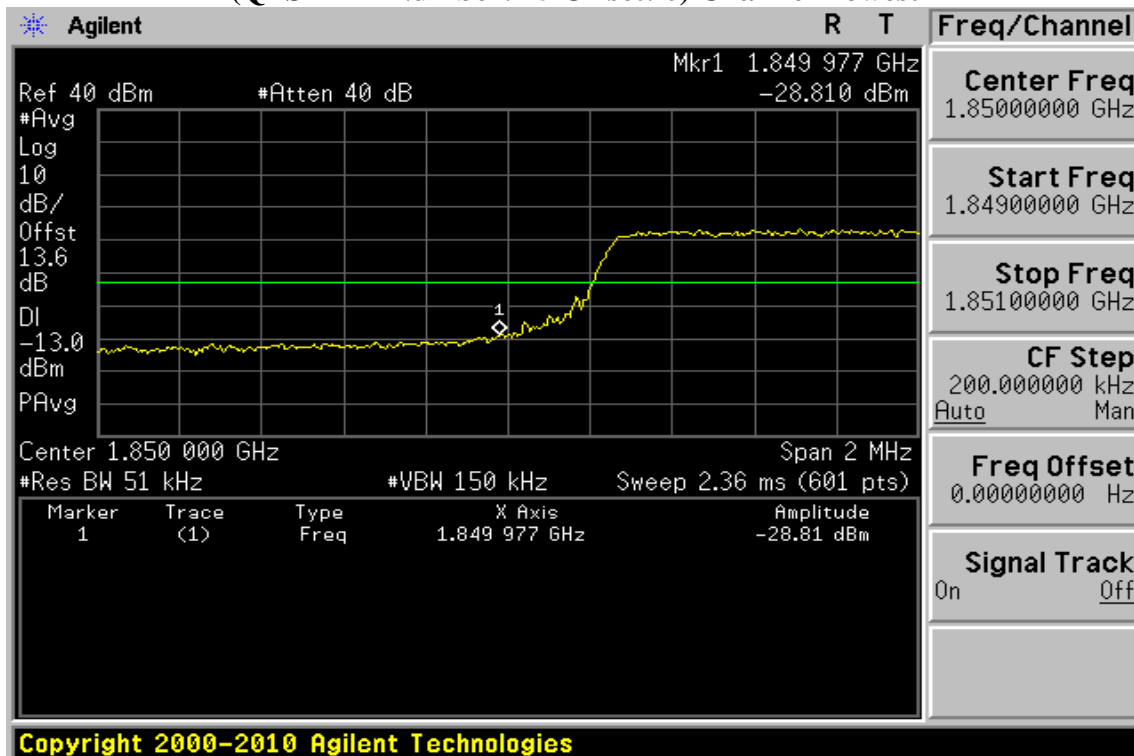
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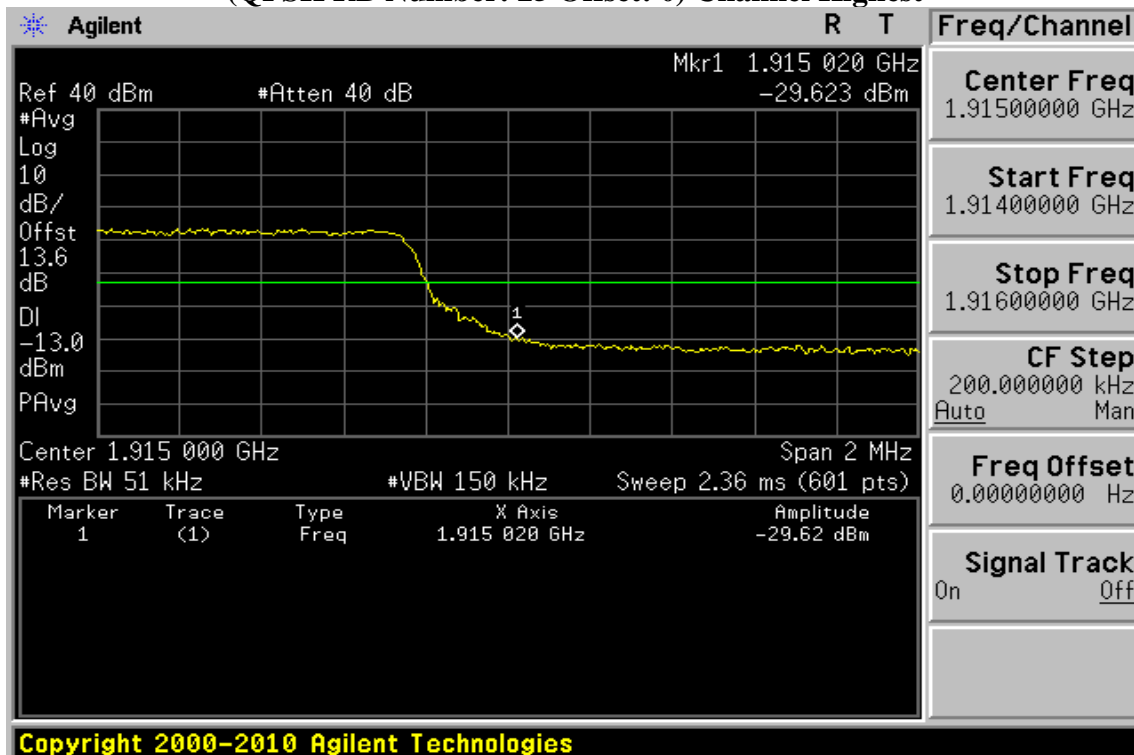
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**Figure 9-59: Band edge emission at antenna terminals – 5MHz BW LTE-Band 25
(QPSK RB Number: 25 Offset: 0) Channel Lowest**



**Figure 9-60: Band edge emission at antenna terminals – 5MHz BW LTE-Band 25
(QPSK RB Number: 25 Offset: 0) Channel Highest**



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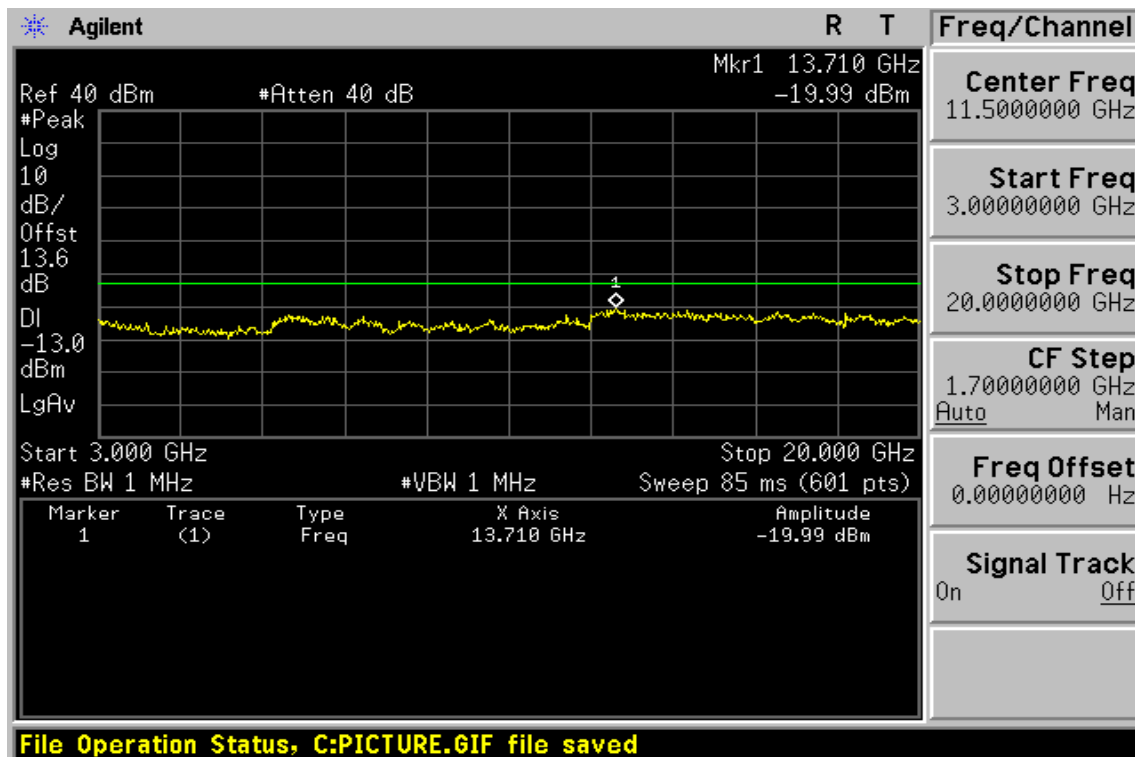
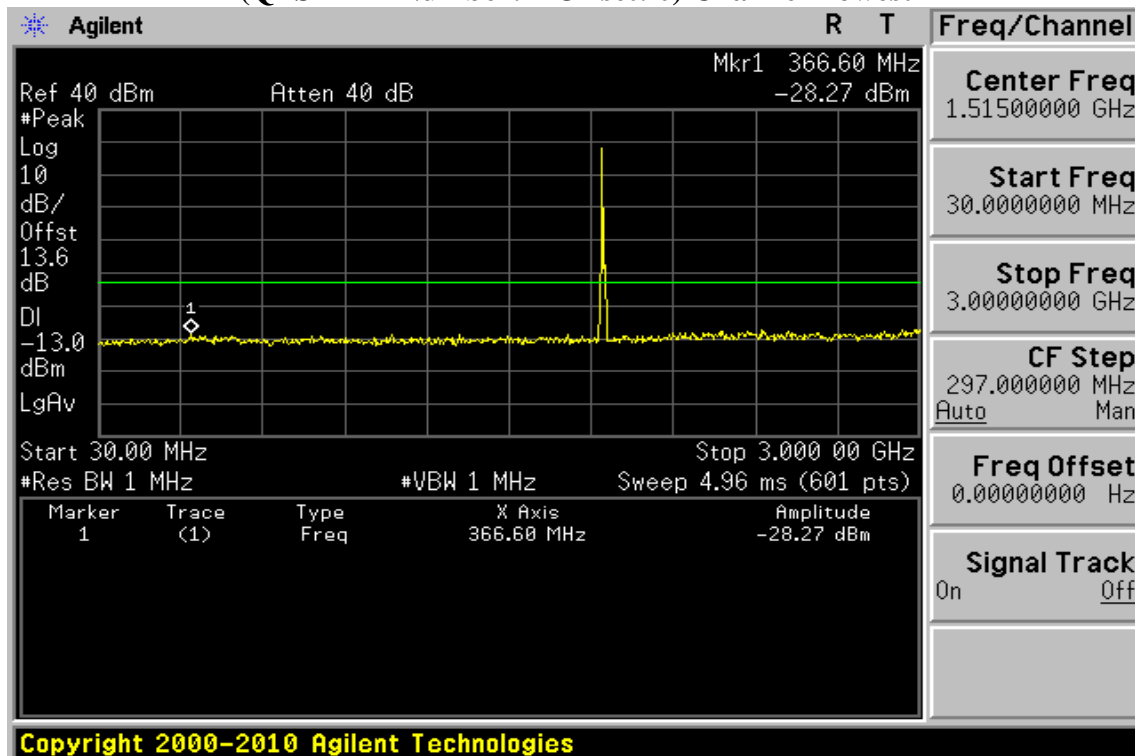
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Figure 9-61: Out of Band emission at antenna terminals – 10MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 0) Channel Lowest



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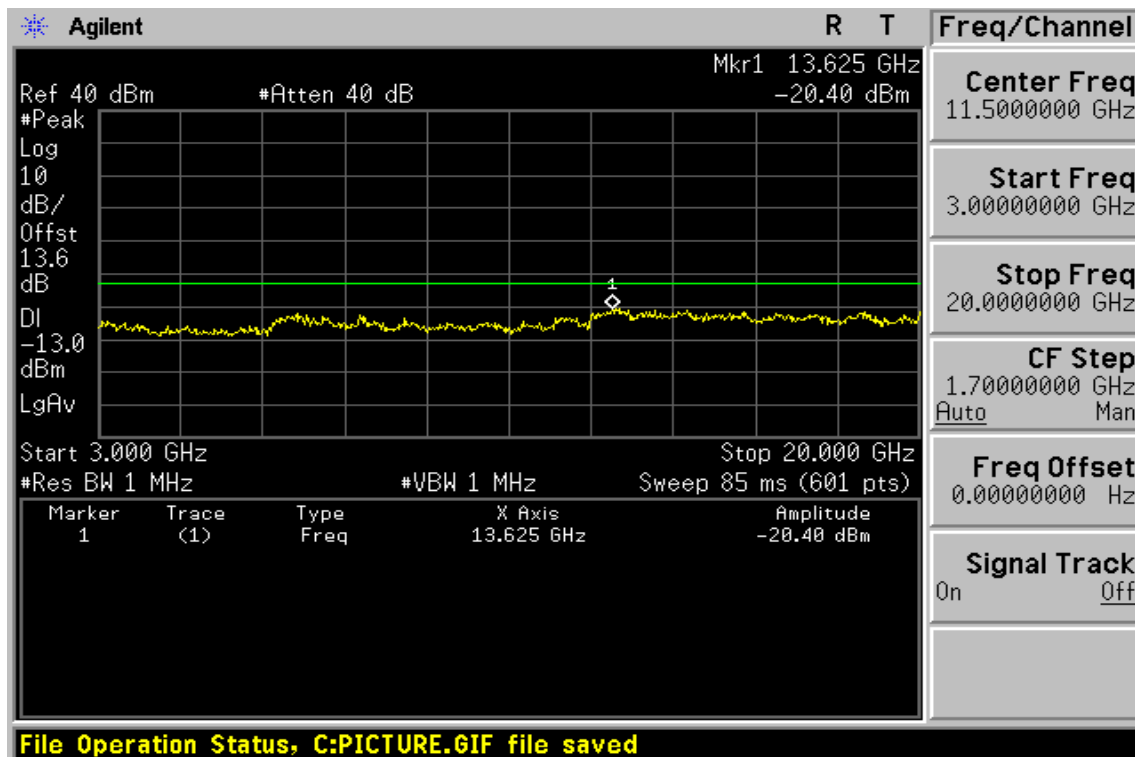
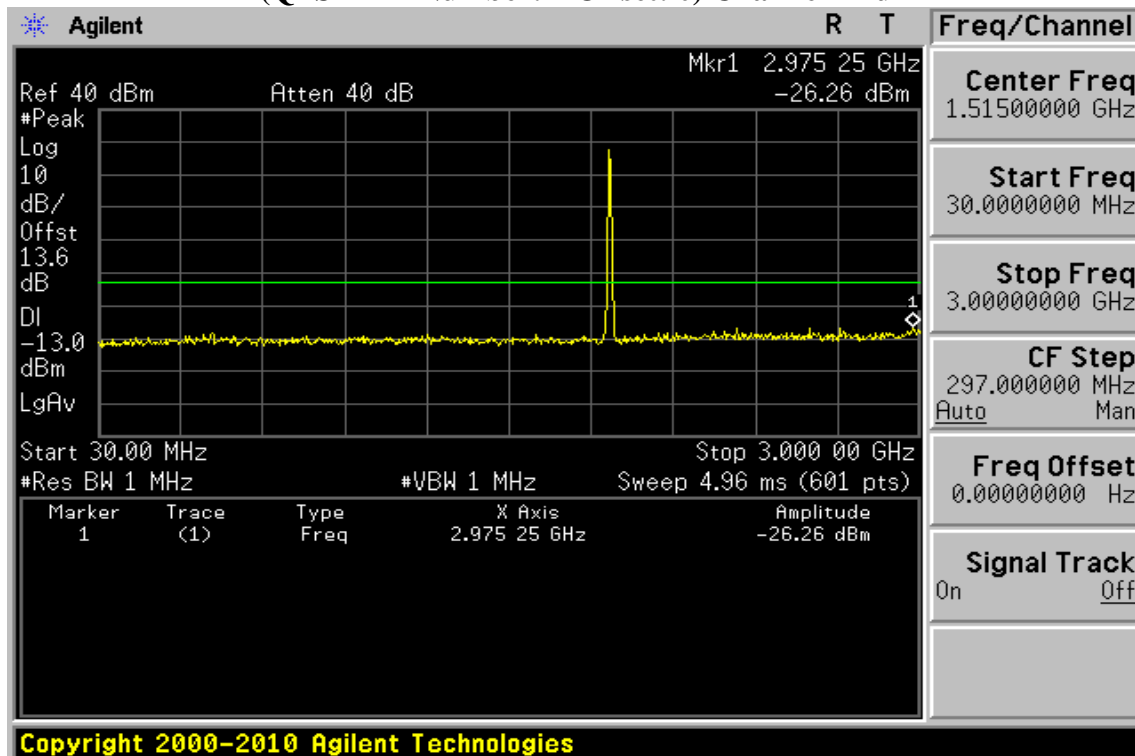
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**Figure 9-62: Out of Band emission at antenna terminals –10MHz BW LTE-Band 25
(QPSK RB Number: 1 Offset: 0) Channel Mid**



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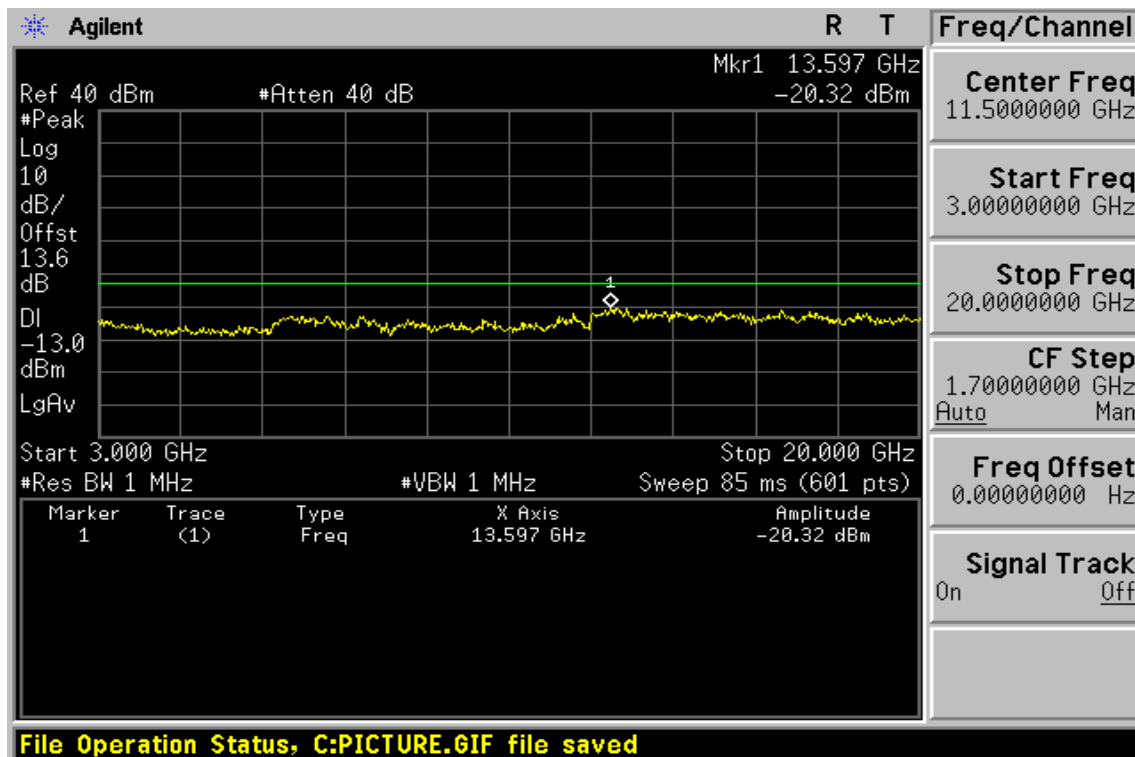
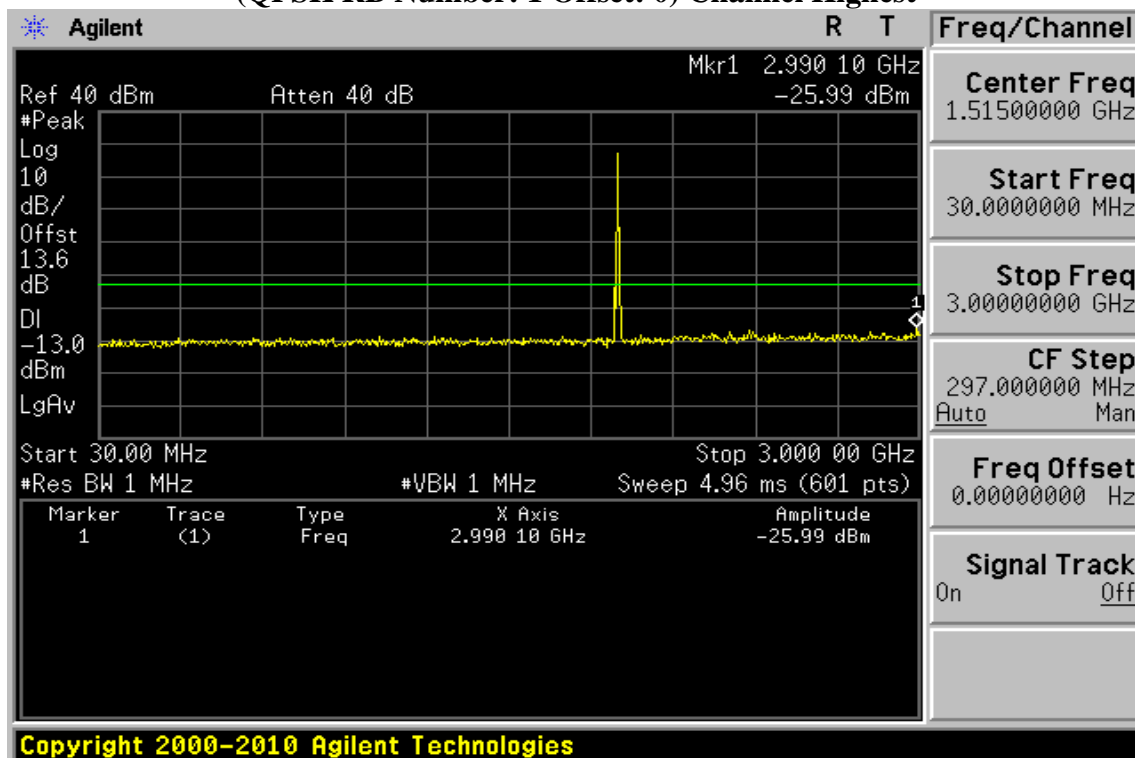
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Figure 9-63: Out of Band emission at antenna terminals –10MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 0) Channel Highest



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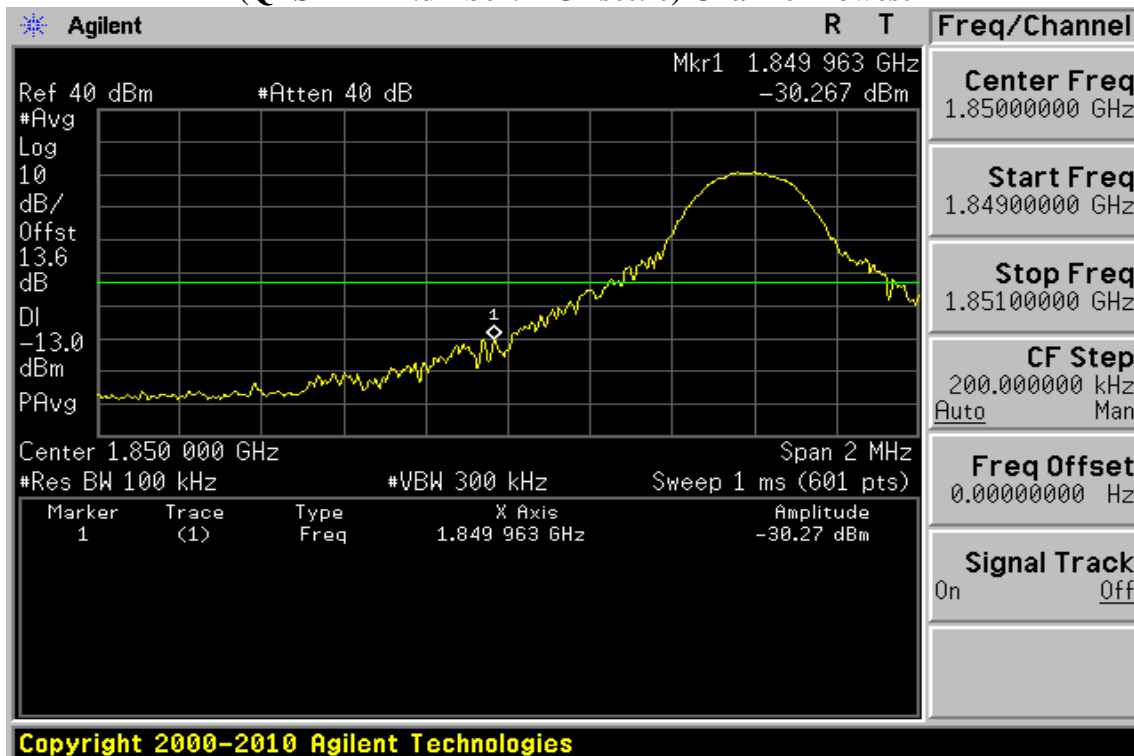
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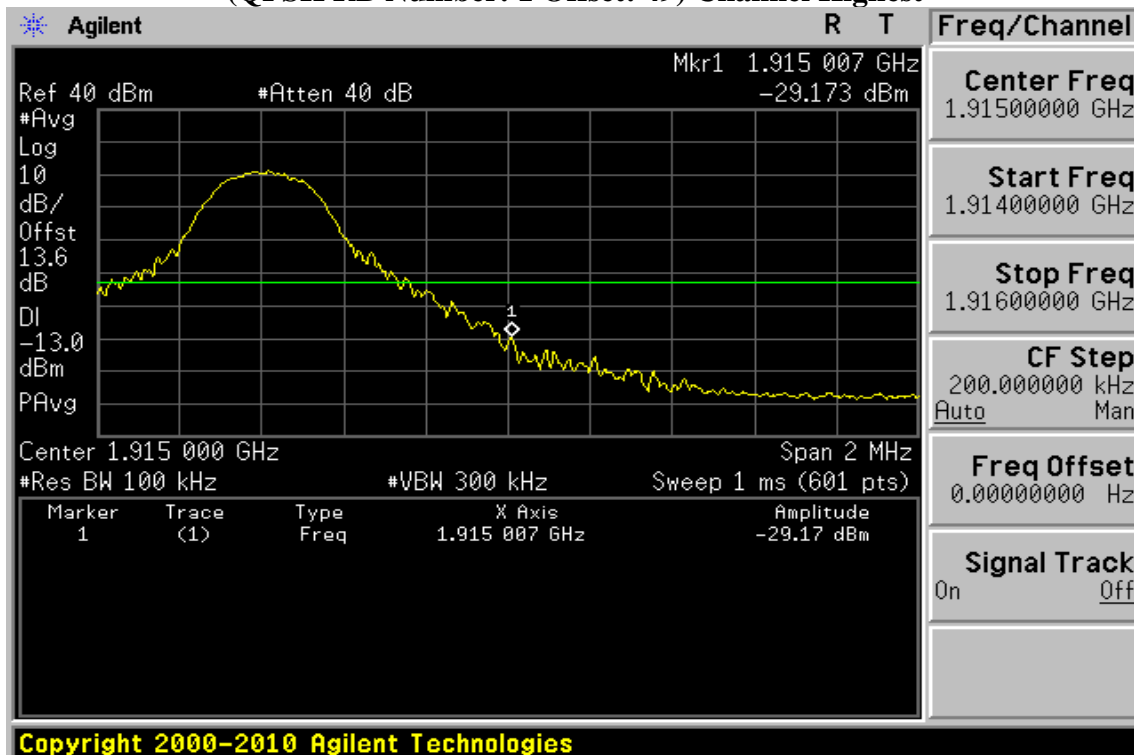
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**Figure 9-64: Band edge emission at antenna terminals – 10MHz BW LTE-Band 25
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Figure 9-65: Band edge emission at antenna terminals – 10MHz BW LTE-Band 25
(QPSK RB Number: 1 Offset: 49) Channel Highest**



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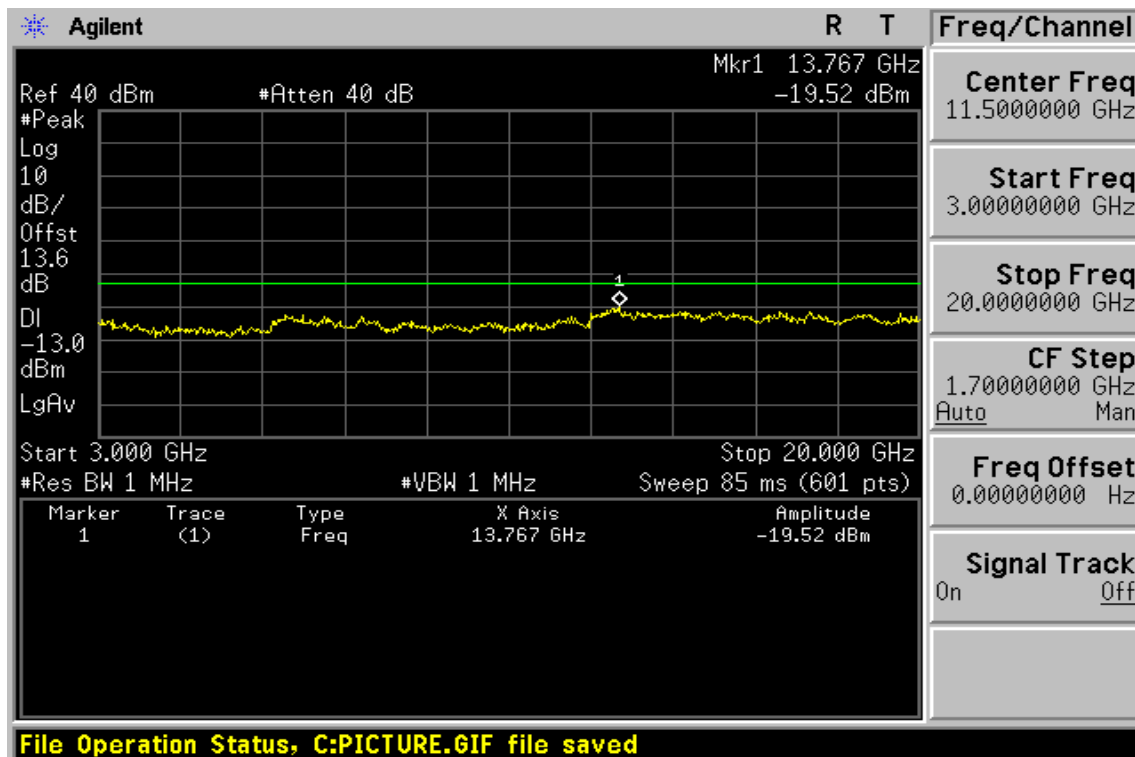
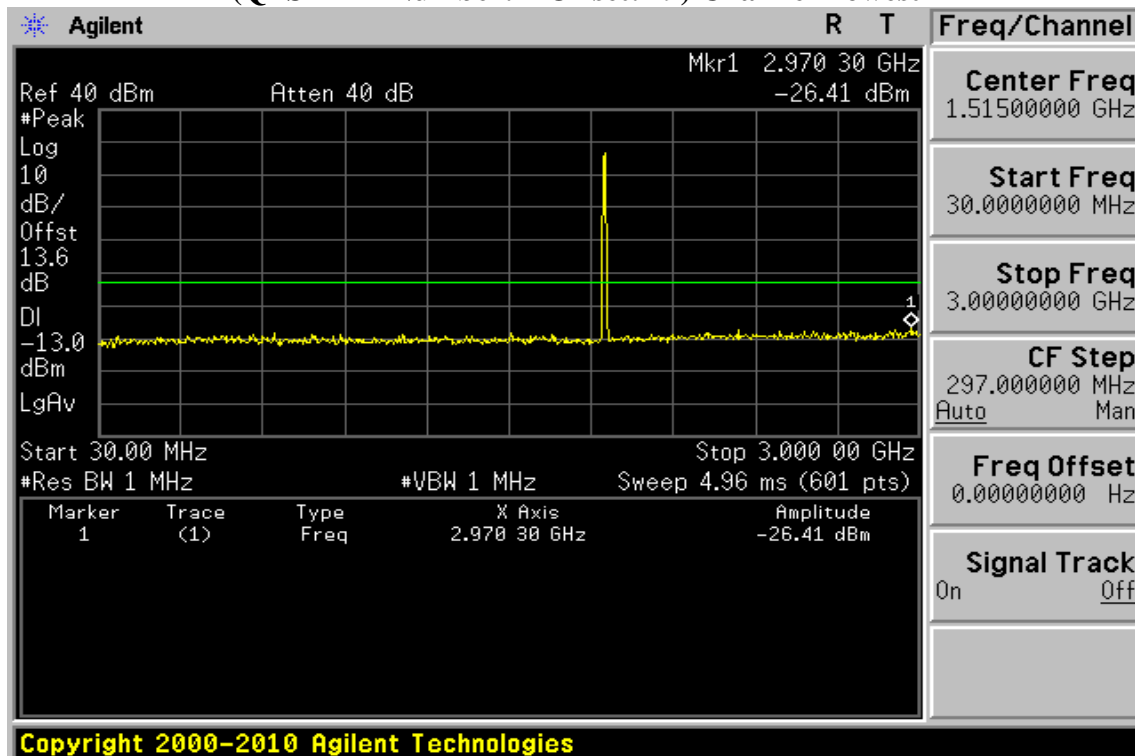
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**Figure 9-66: Out of Band emission at antenna terminals –110MHz BW LTE-Band 25
(QPSK RB Number: 1 Offset: 49) Channel Lowest**



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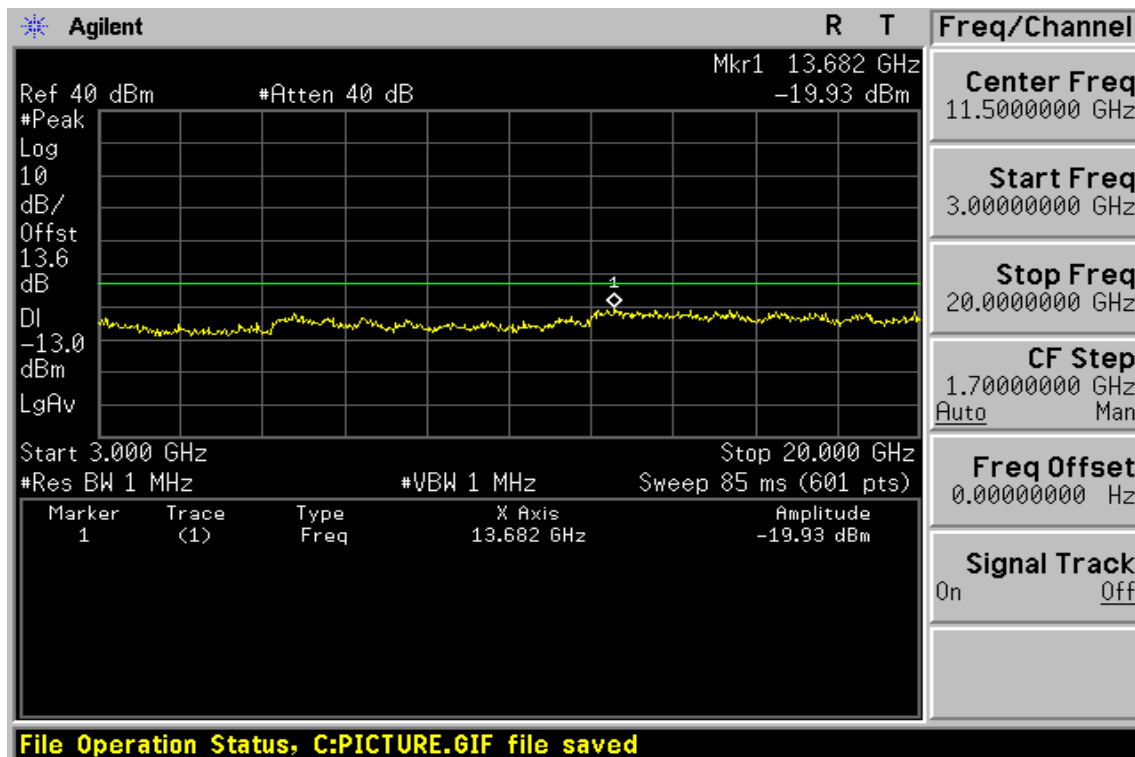
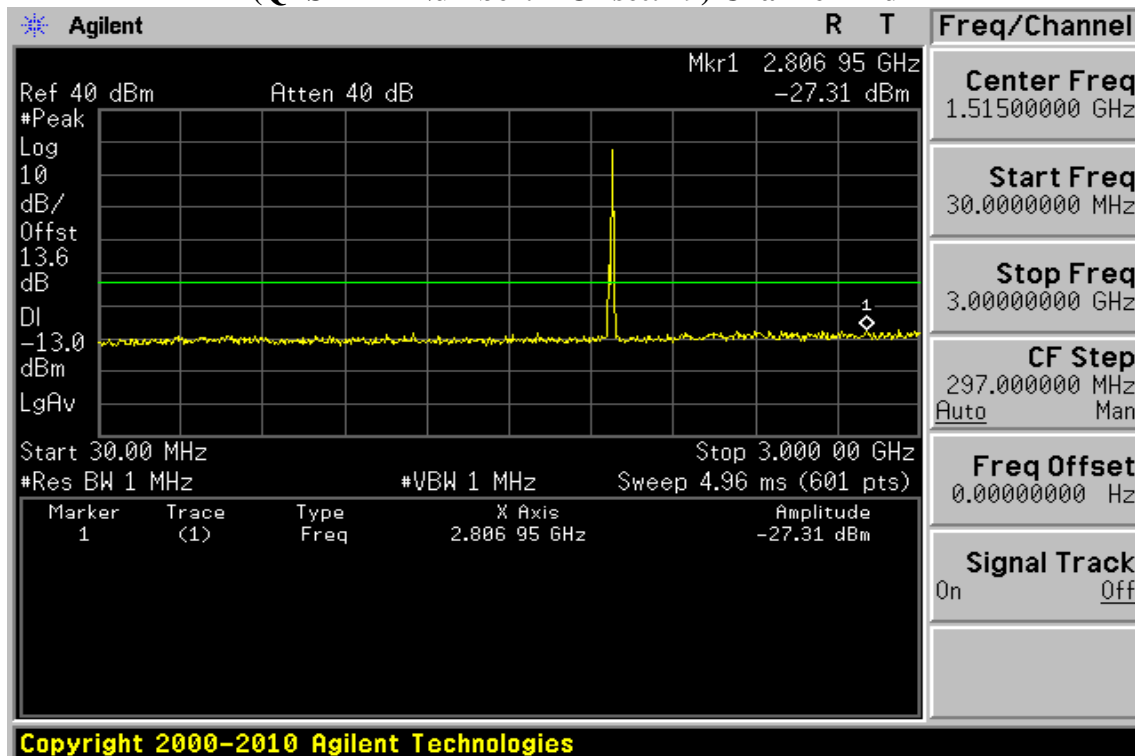
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**Figure 9-67: Out of Band emission at antenna terminals – 10MHz BW LTE-Band 25
(QPSK RB Number: 1 Offset: 49) Channel Mid**



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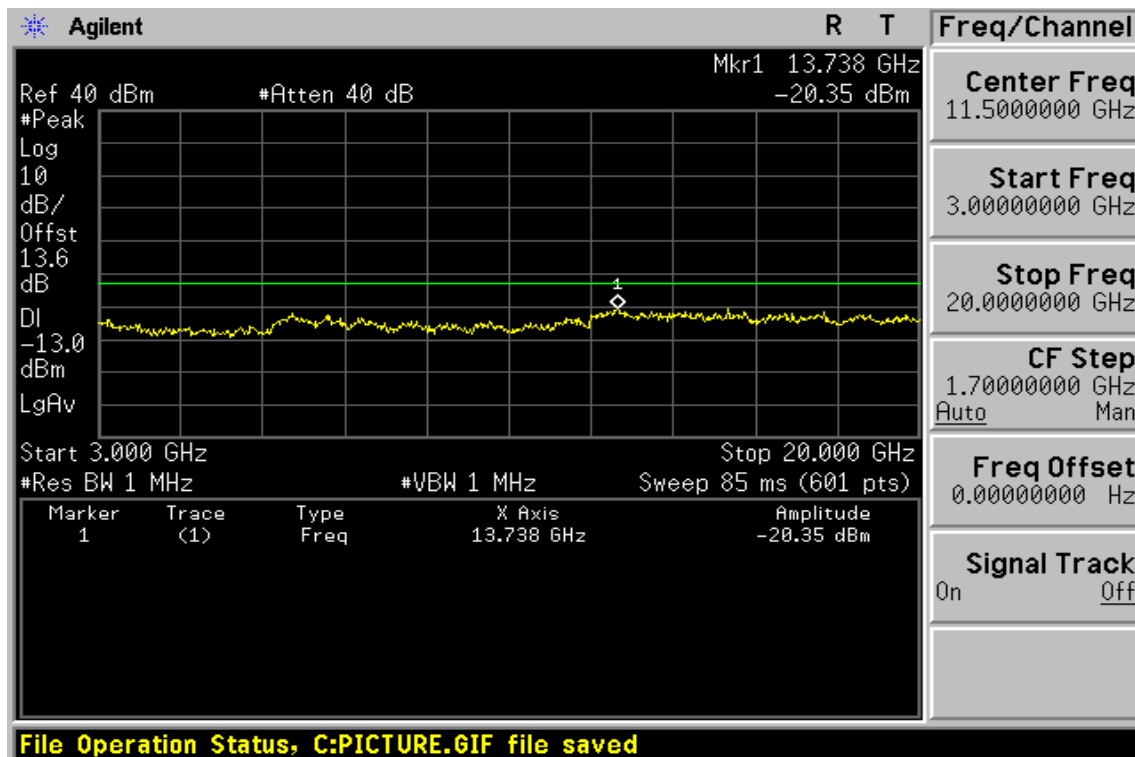
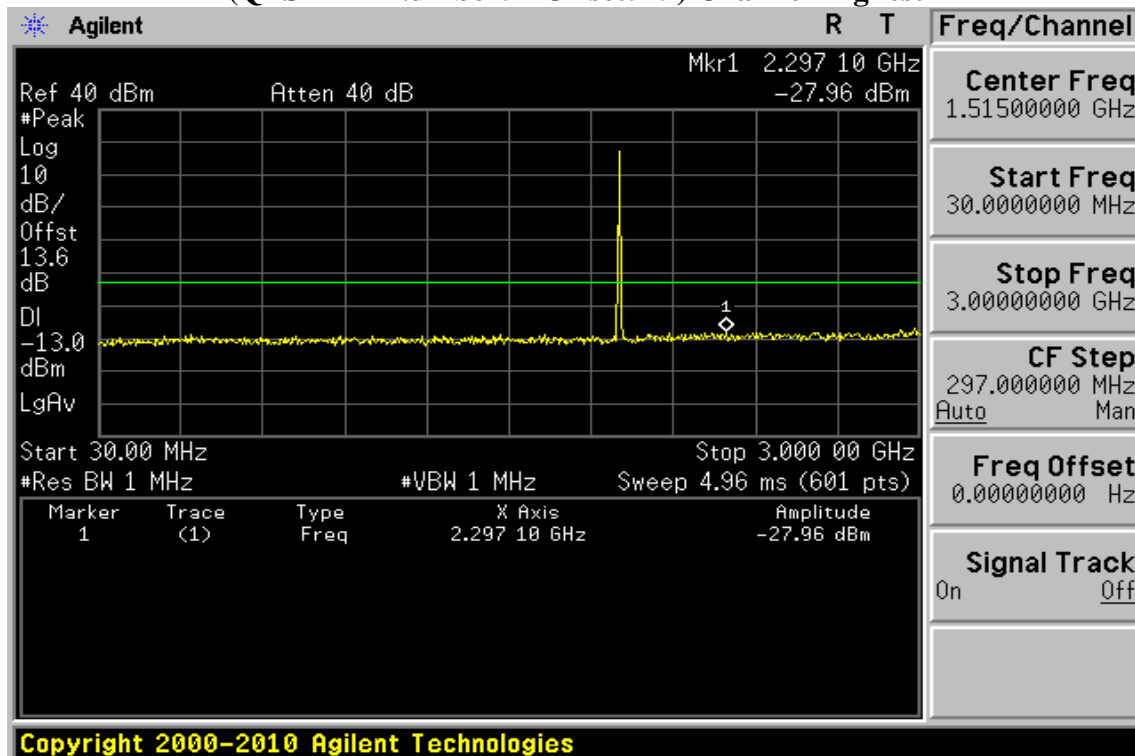
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**Figure 9-68: Out of Band emission at antenna terminals –10MHz BW LTE-Band 25
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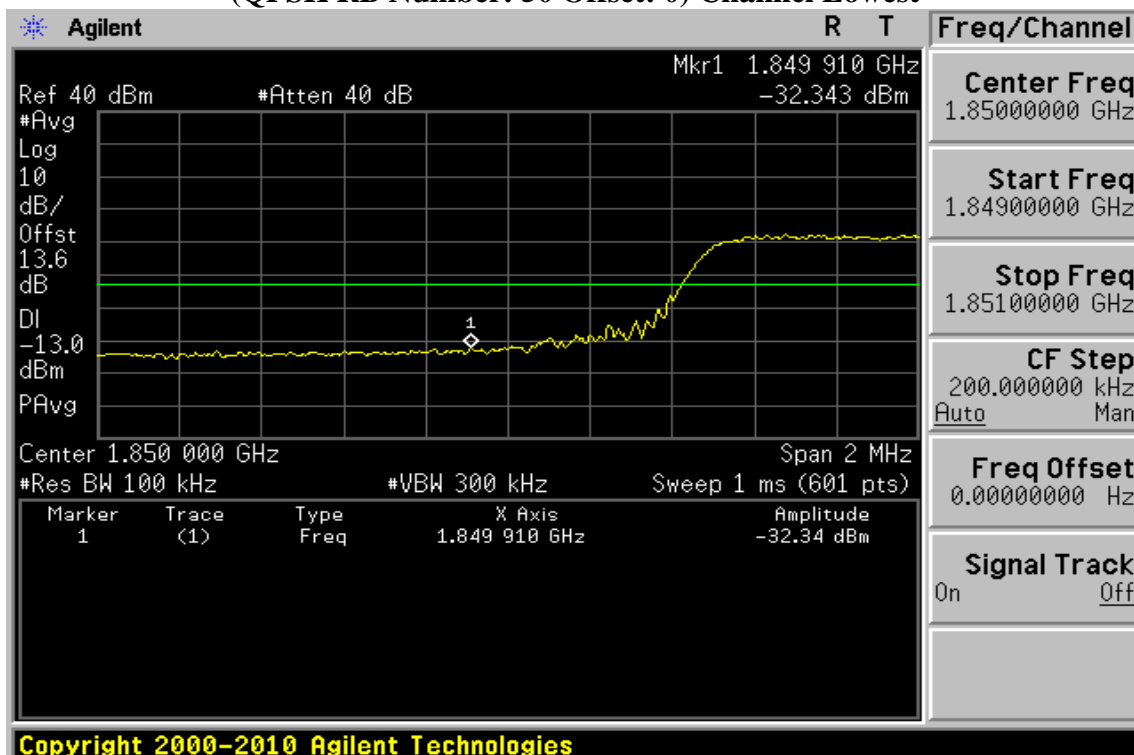
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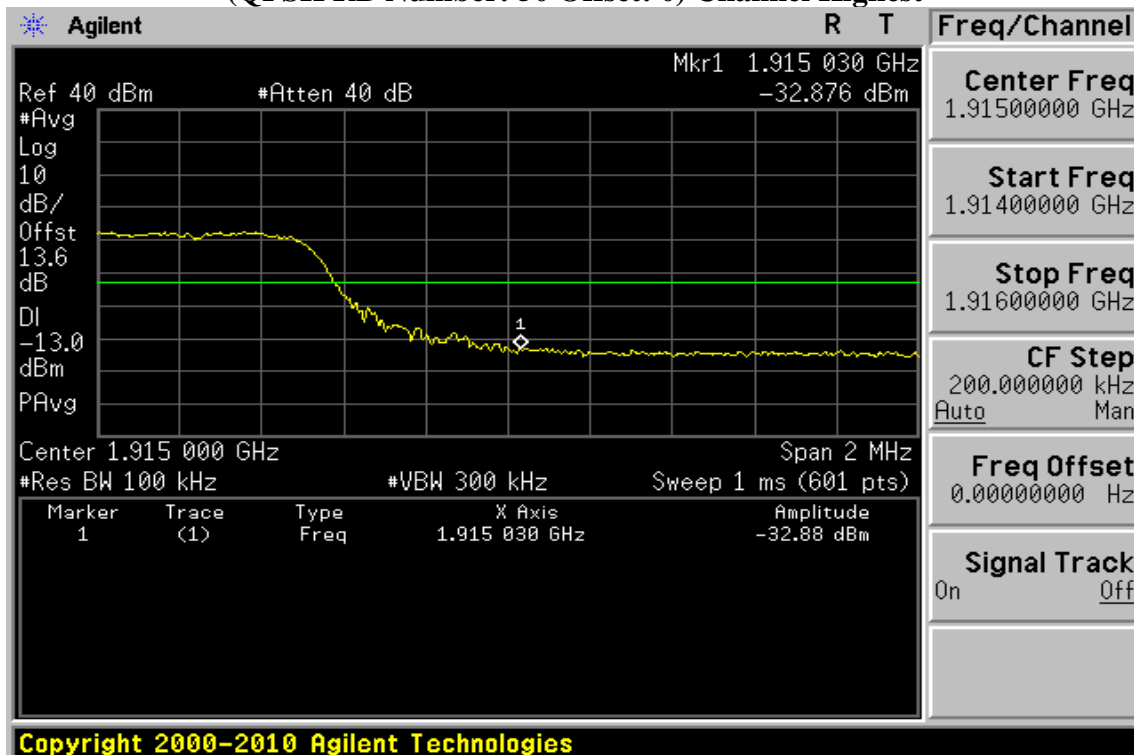
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**Figure 9-69: Band edge emission at antenna terminals –10MHz BW LTE-Band 25
(QPSK RB Number: 50 Offset: 0) Channel Lowest**



**Figure 9-70: Band edge emission at antenna terminals –10MHz BW LTE-Band 25
(QPSK RB Number: 50 Offset: 0) Channel Highest**



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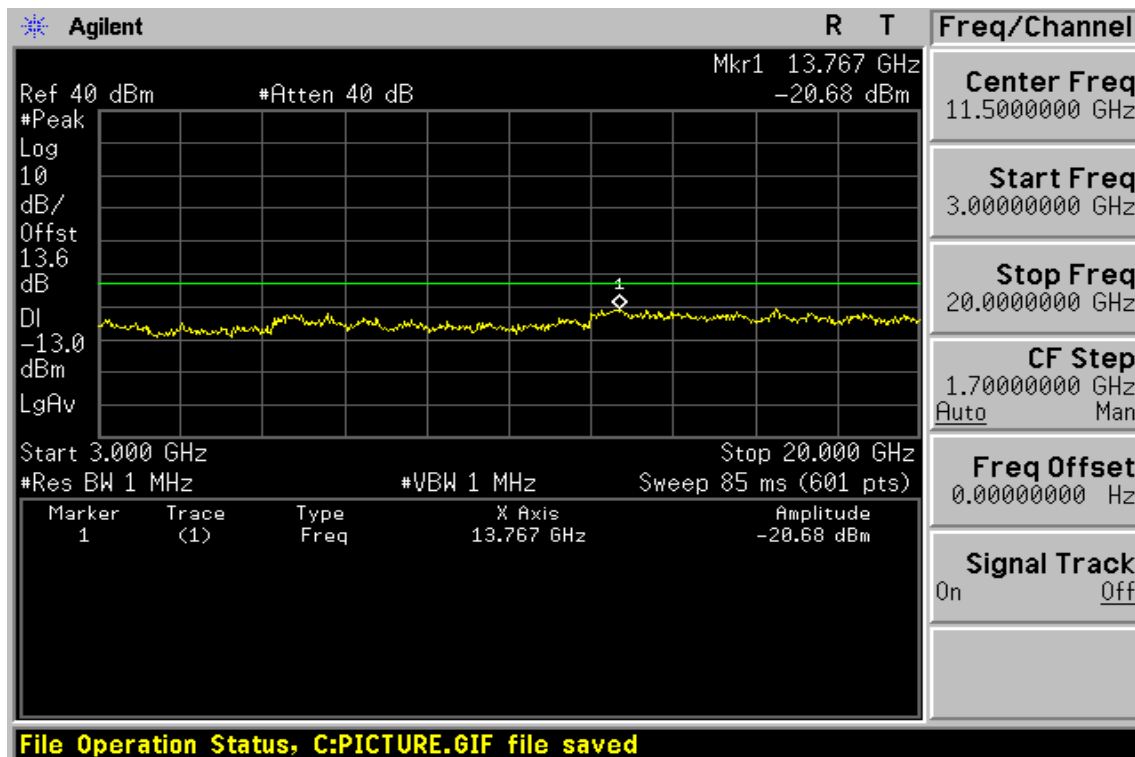
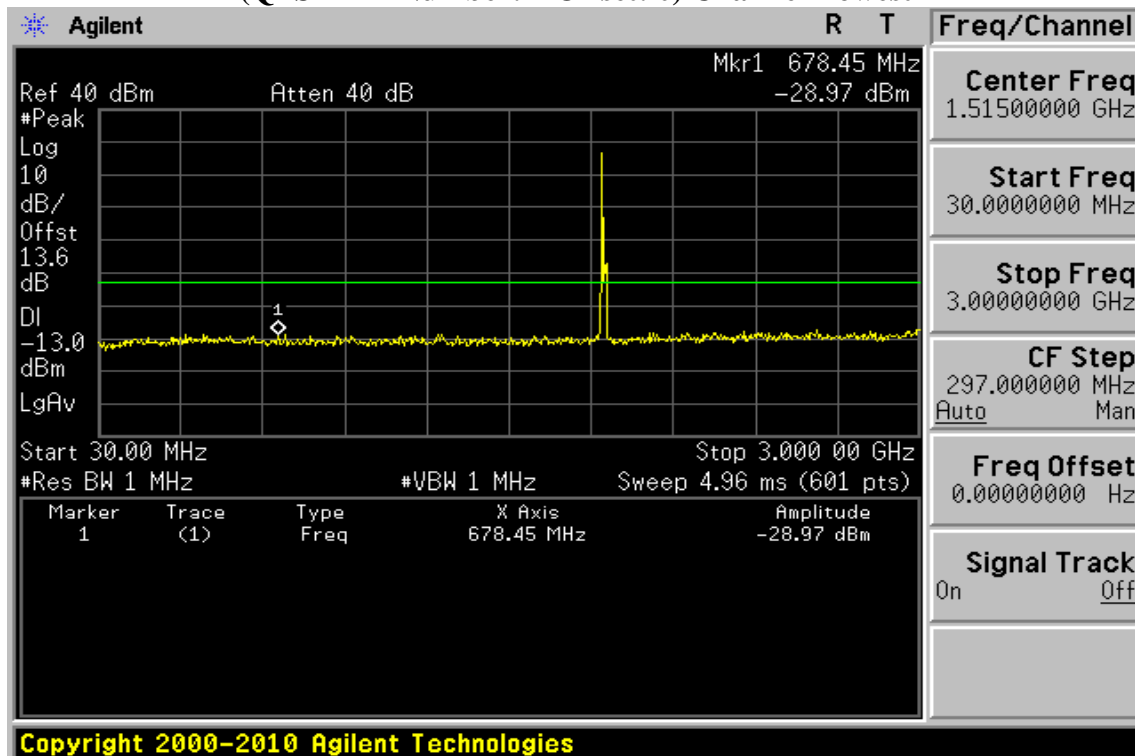
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Figure 9-71: Out of Band emission at antenna terminals – 15MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 0) Channel Lowest



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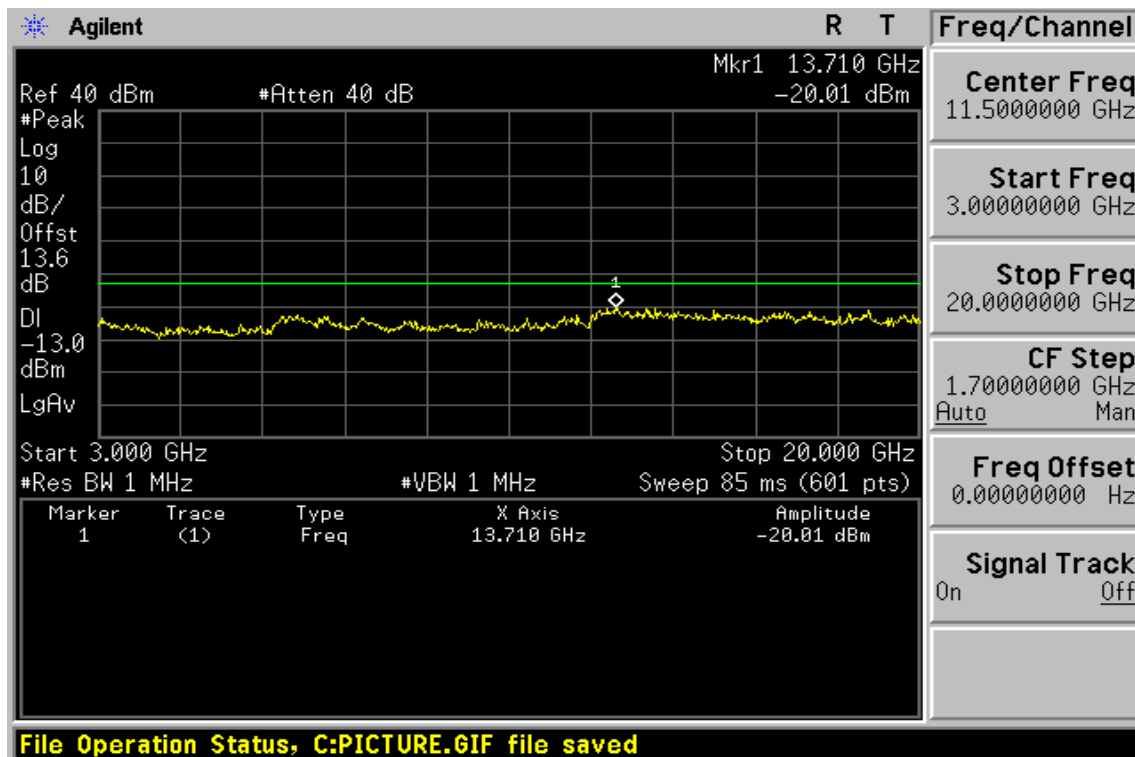
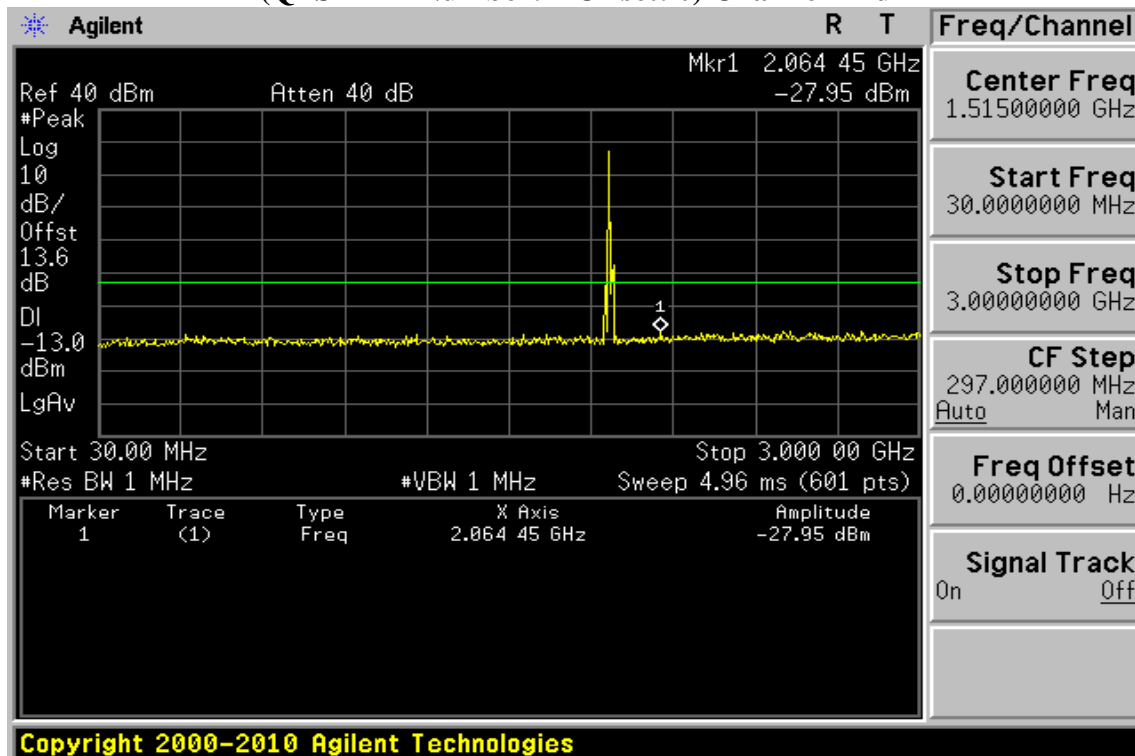
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**Figure 9-72: Out of Band emission at antenna terminals –15MHz BW LTE-Band 25
(QPSK RB Number: 1 Offset: 0) Channel Mid**



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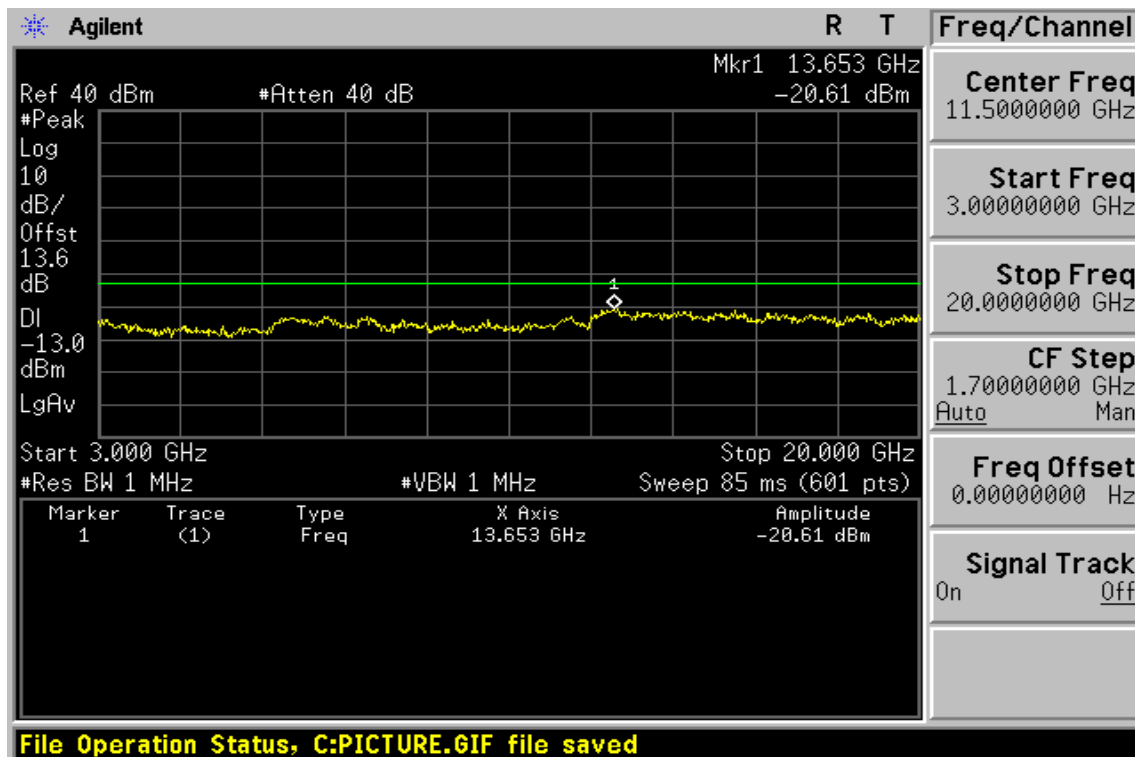
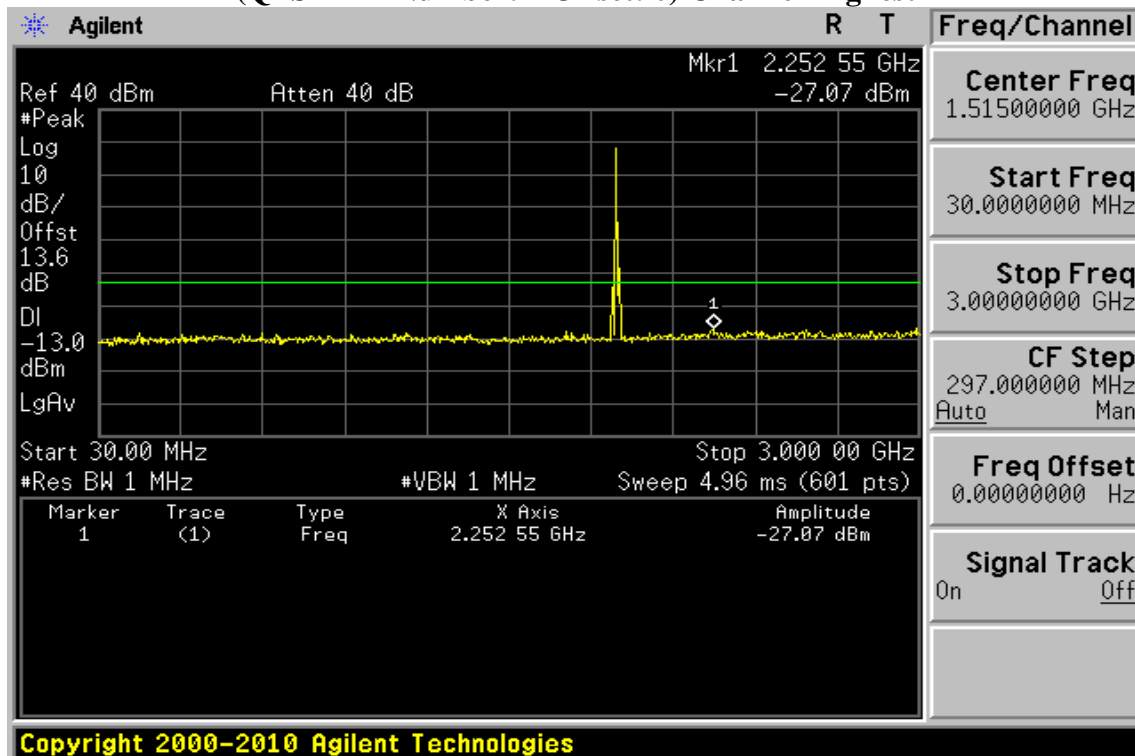
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**Figure 9-73: Out of Band emission at antenna terminals –15MHz BW LTE-Band 25
(QPSK RB Number: 1 Offset: 0) Channel Highest**



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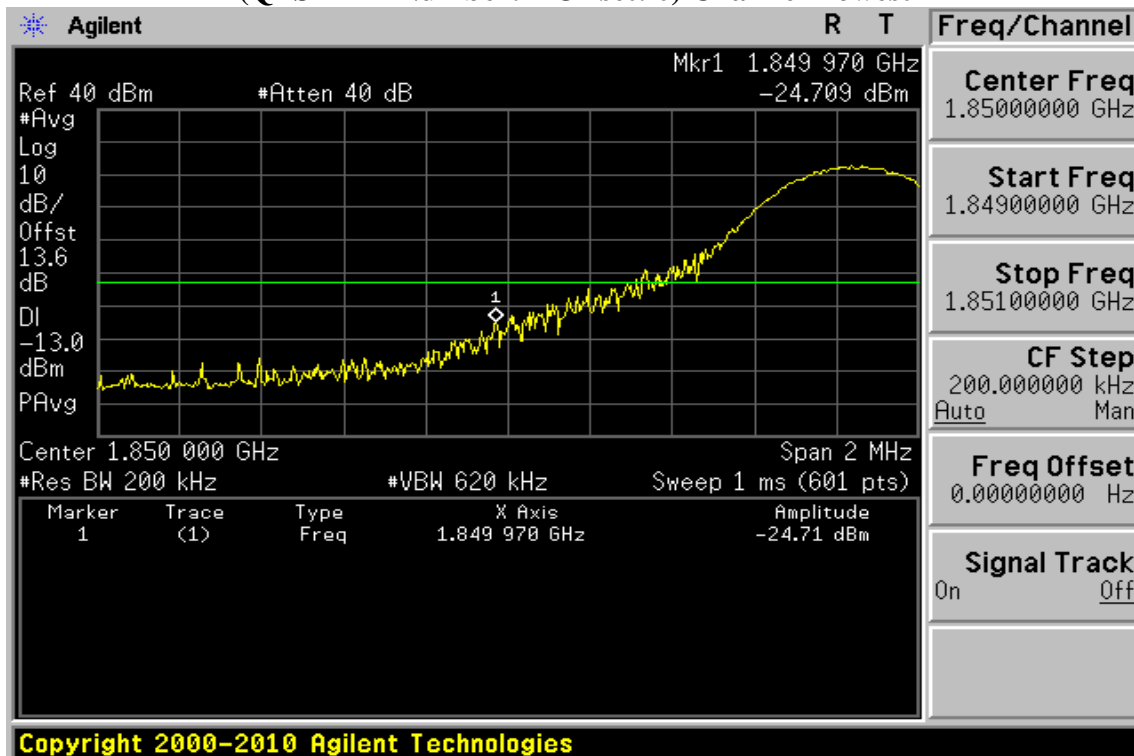
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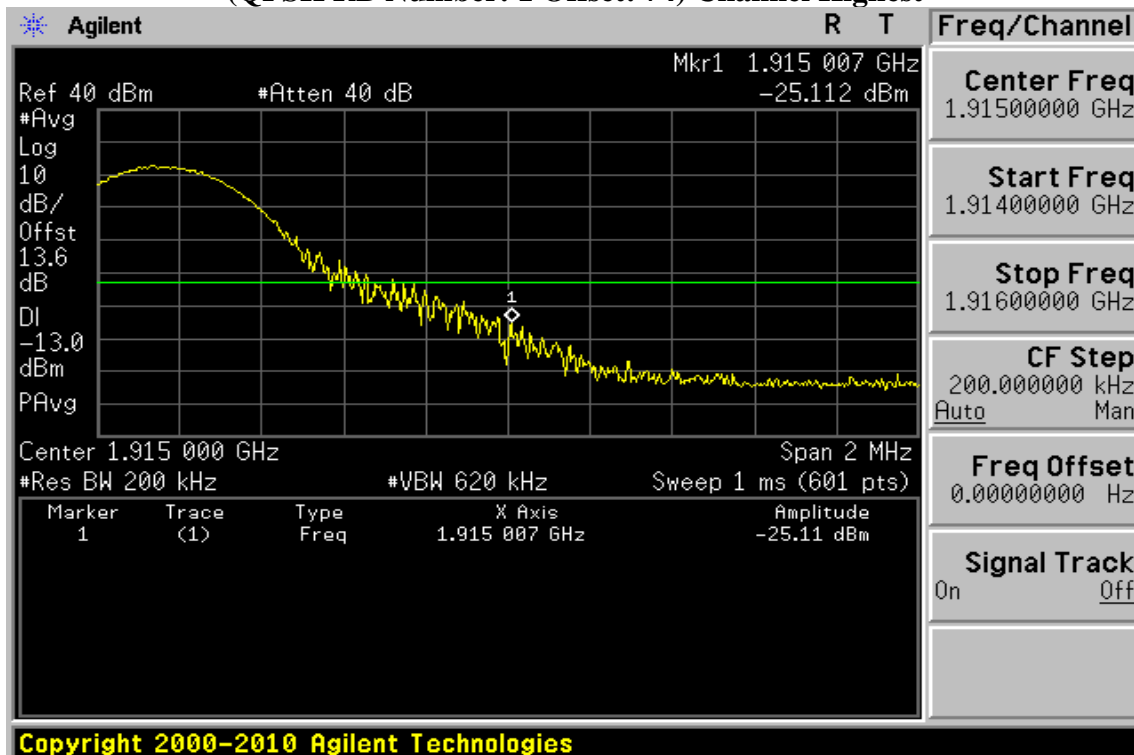
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**Figure 9-74: Band edge emission at antenna terminals – 15MHz BW LTE-Band 25
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Figure 9-75: Band edge emission at antenna terminals –15MHz BW LTE-Band 25
(QPSK RB Number: 1 Offset: 74) Channel Highest**



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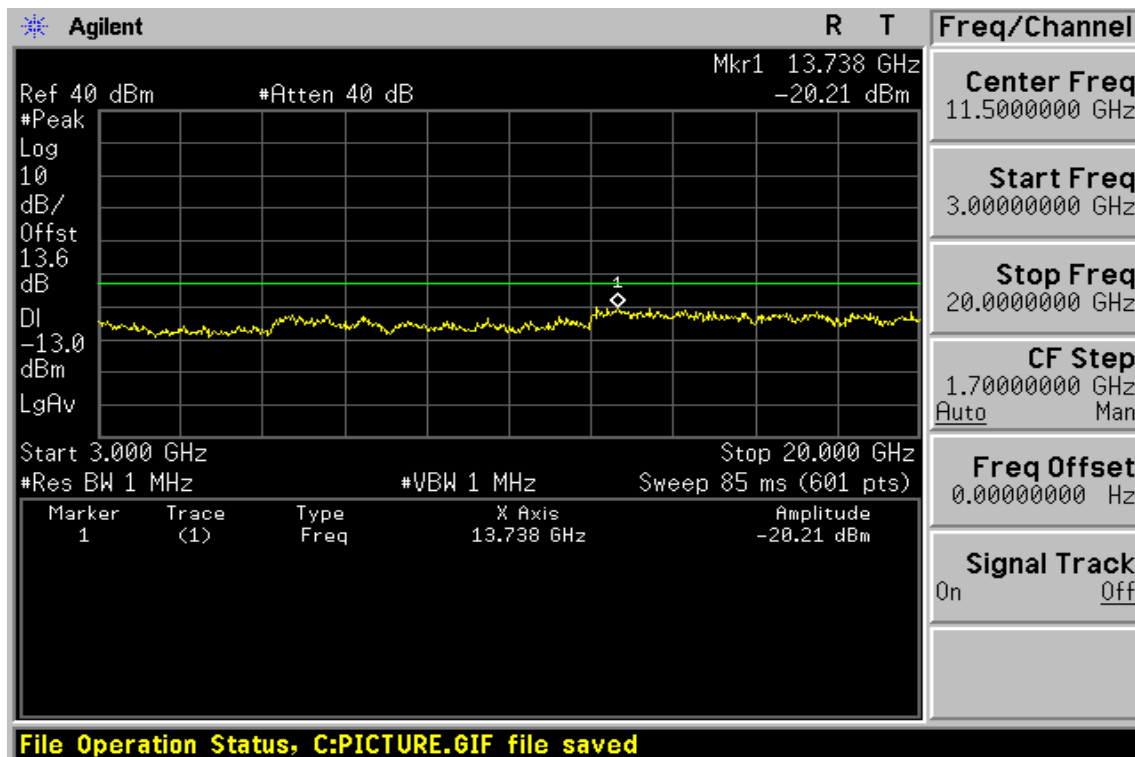
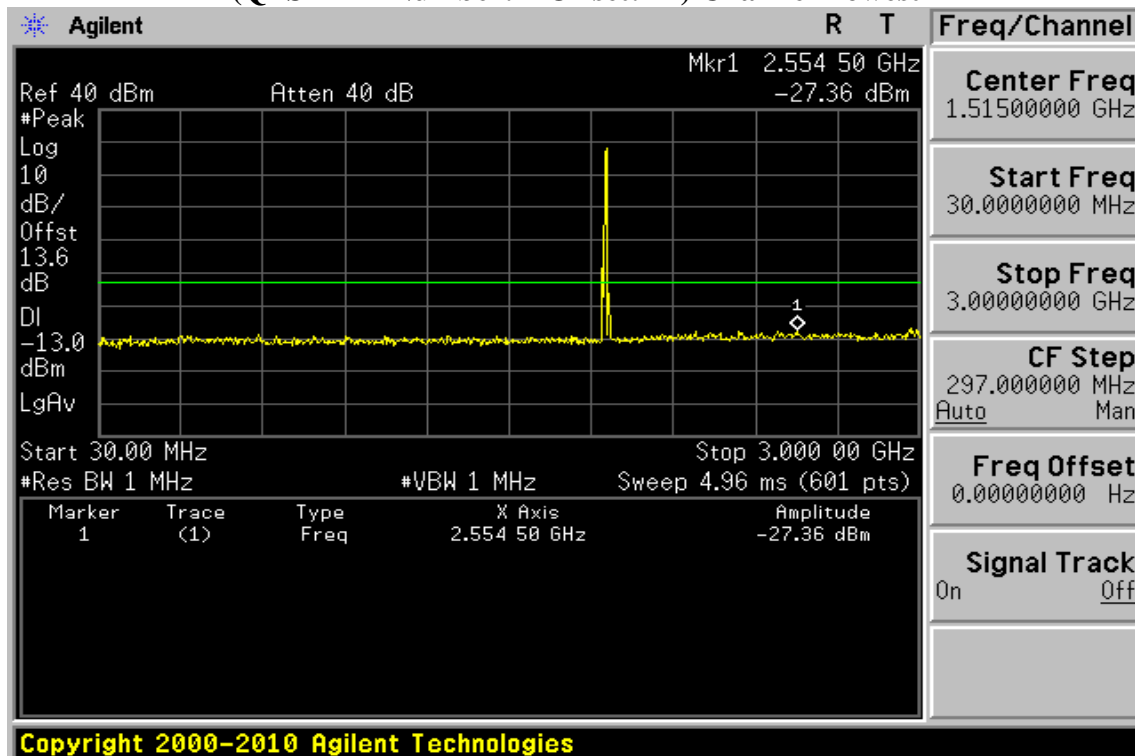
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**Figure 9-76: Out of Band emission at antenna terminals – 15MHz BW LTE-Band 25
(QPSK RB Number: 1 Offset: 74) Channel Lowest**



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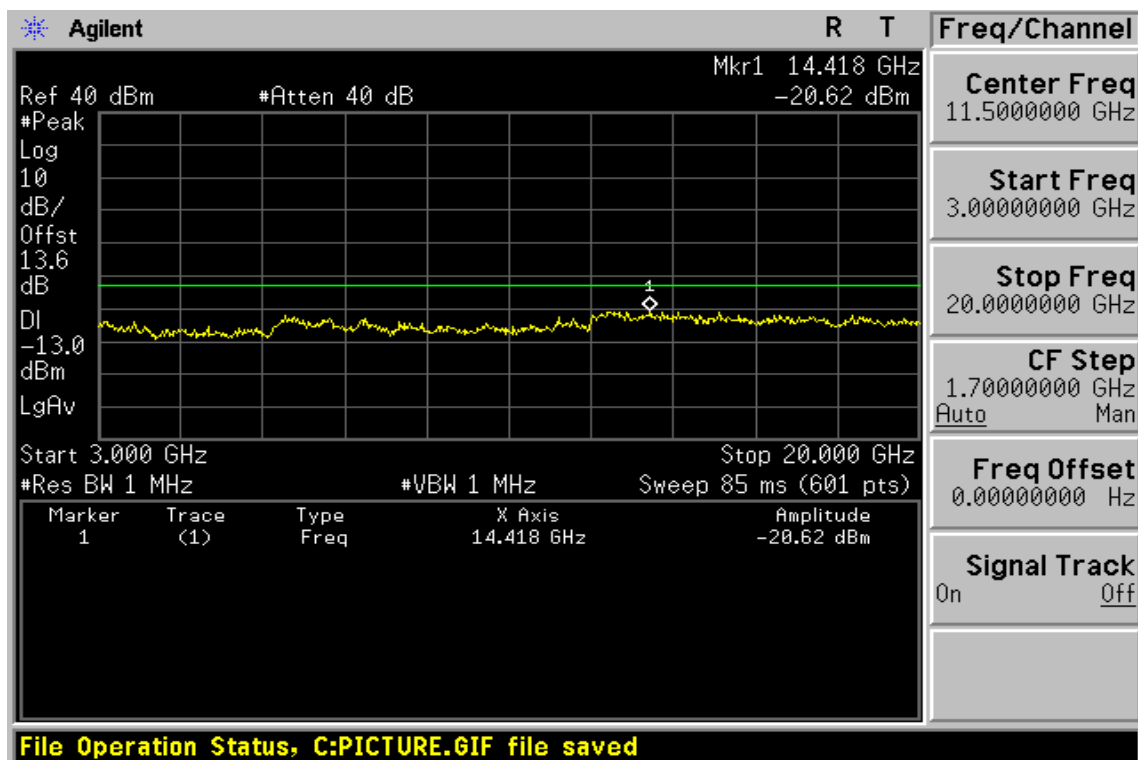
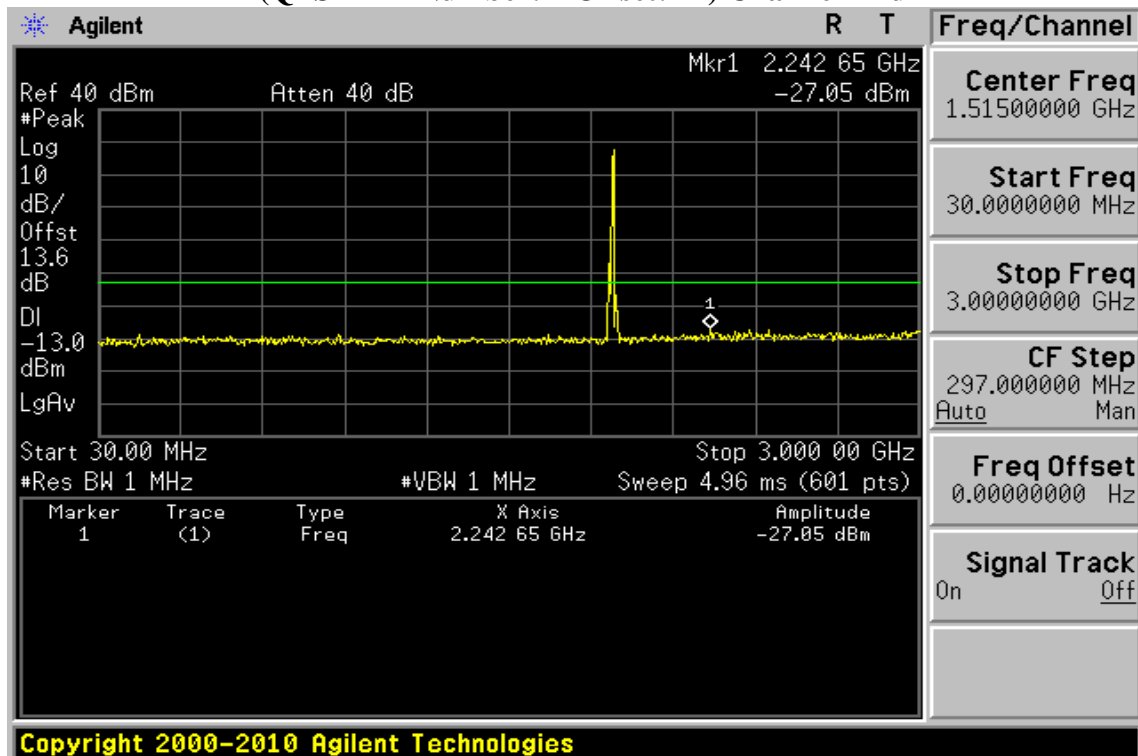
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**Figure 9-77: Out of Band emission at antenna terminals –15MHz BW LTE-Band 25
(QPSK RB Number: 1 Offset: 74) Channel Mid**



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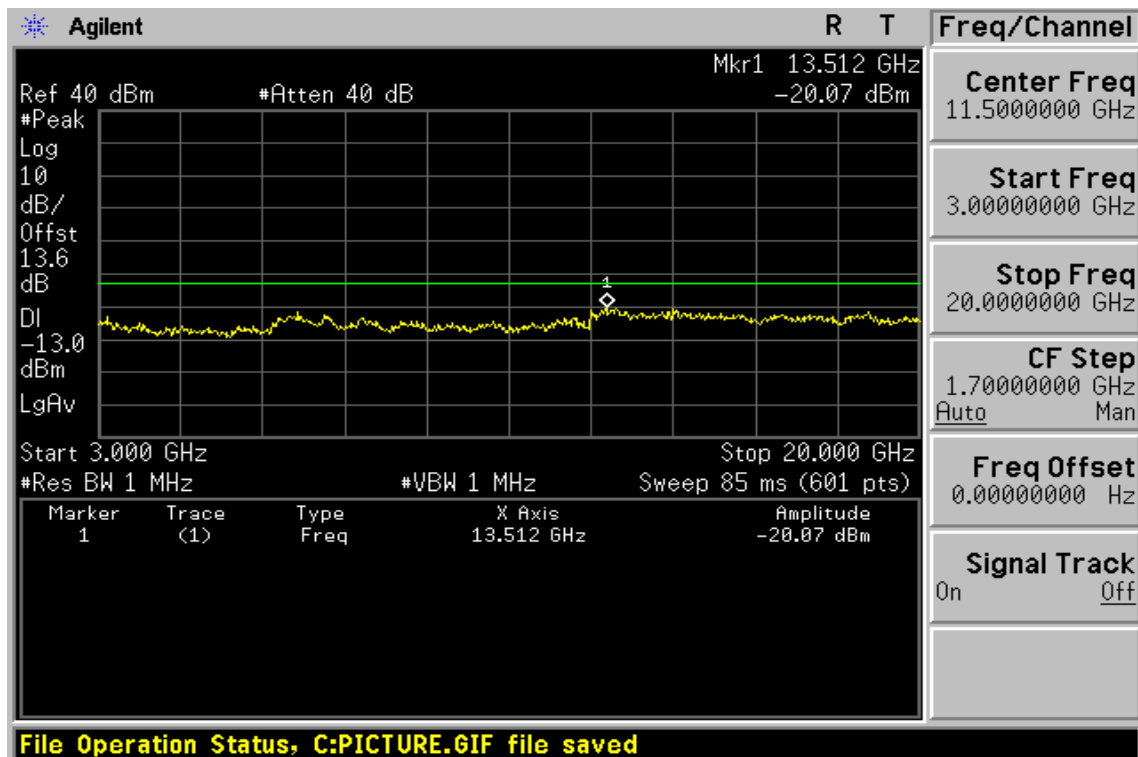
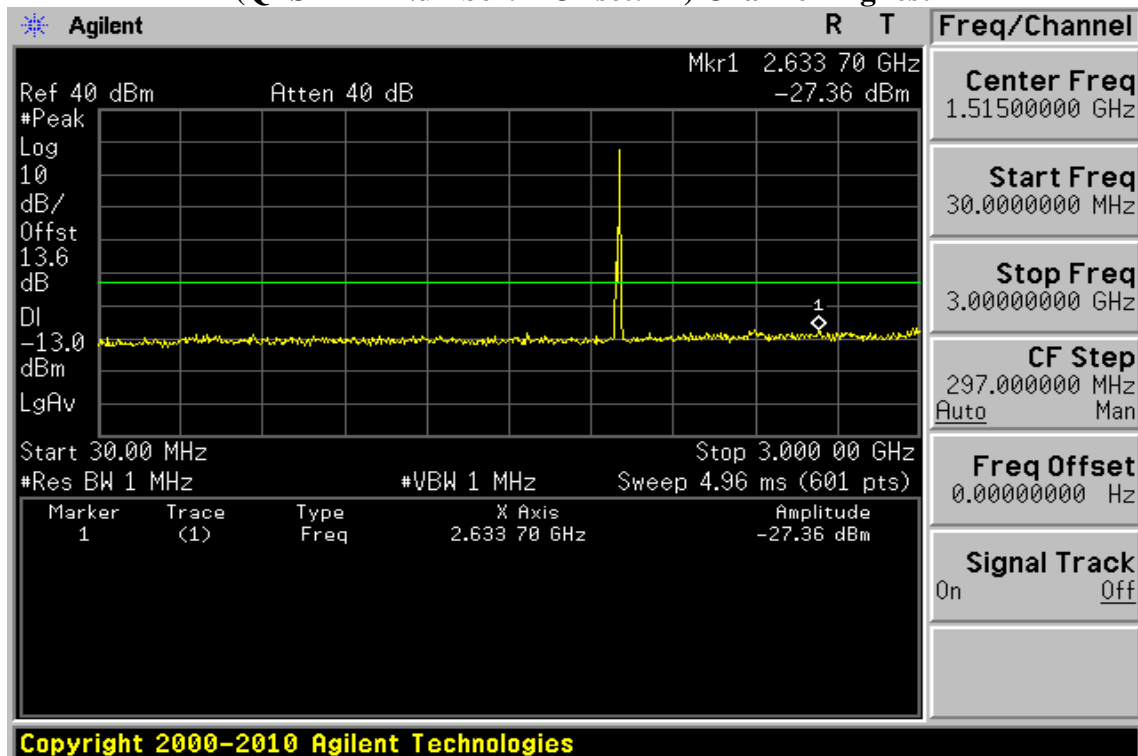
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**Figure 9-78: Out of Band emission at antenna terminals –15MHz BW LTE-Band 25
(QPSK RB Number: 1 Offset: 74) Channel Highest**



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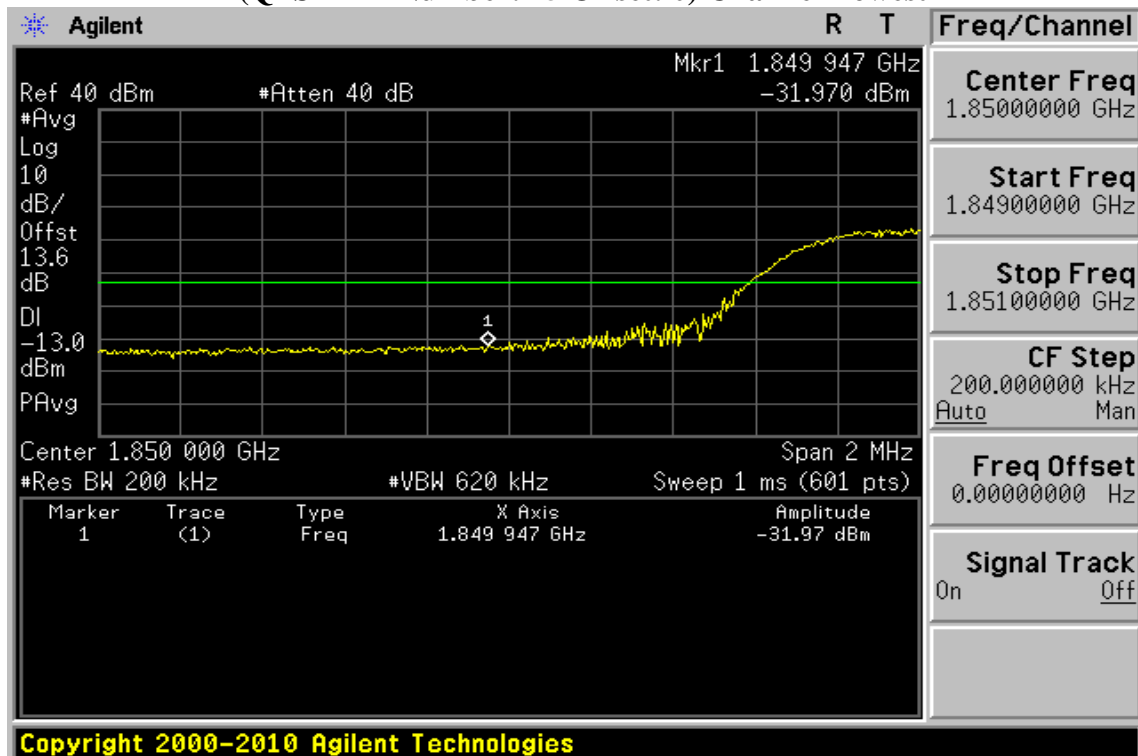
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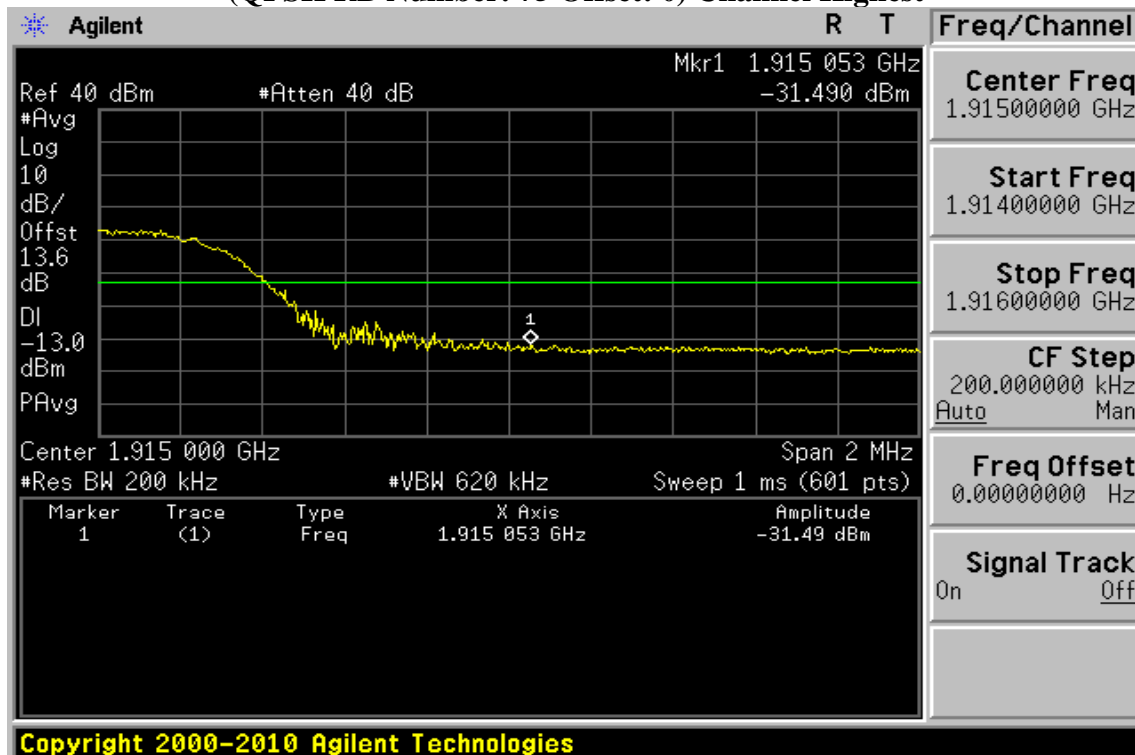
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**Figure 9-79: Band edge emission at antenna terminals – 15MHz BW LTE-Band 25
(QPSK RB Number: 75 Offset: 0) Channel Lowest**



**Figure 9-80: Band edge emission at antenna terminals –15MHz BW LTE-Band 25
(QPSK RB Number: 75 Offset: 0) Channel Highest**



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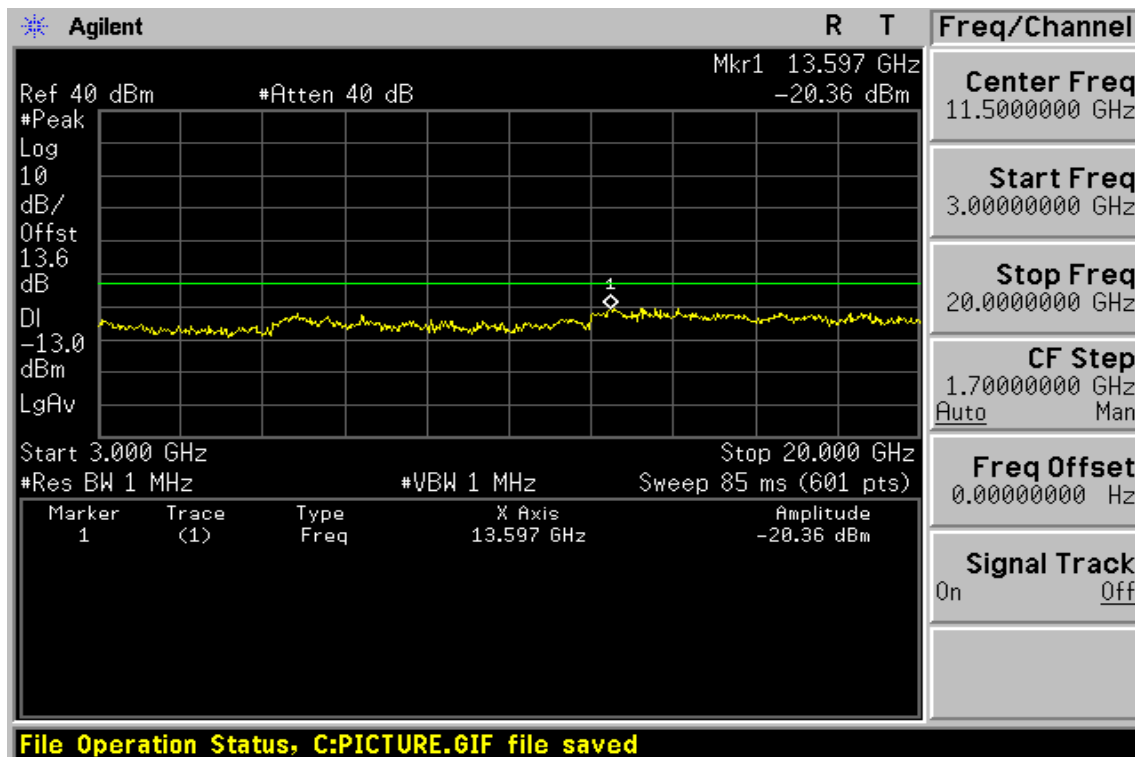
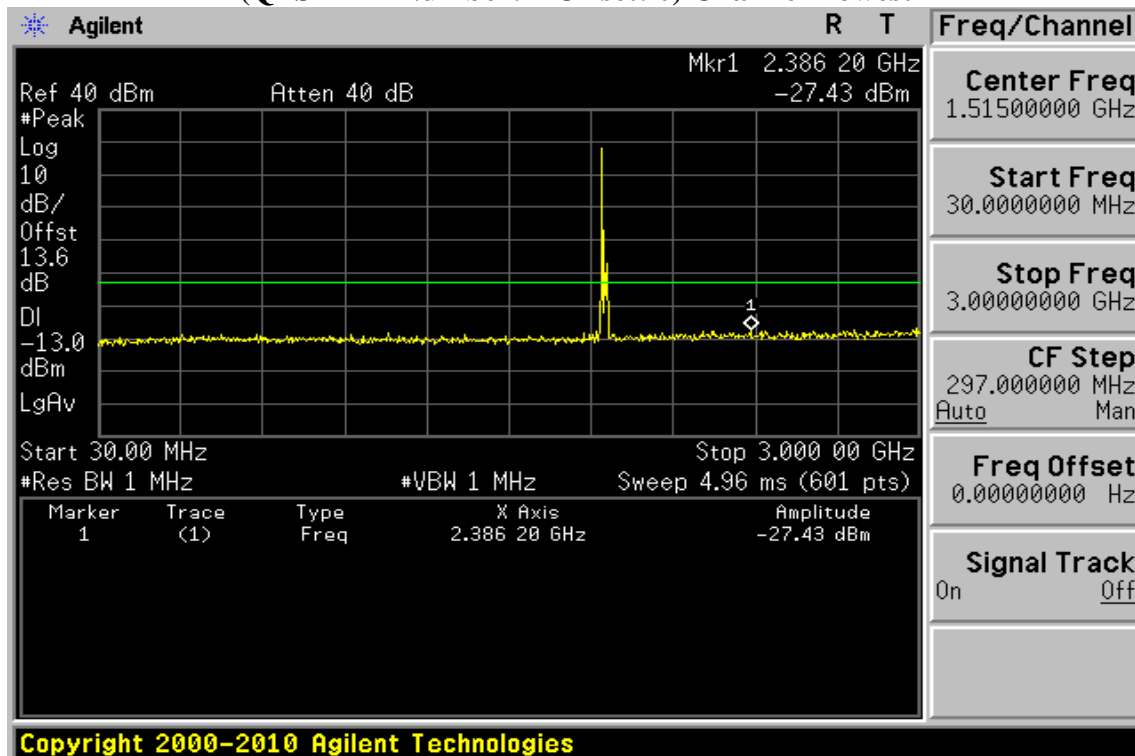
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**Figure 9-81: Out of Band emission at antenna terminals – 20MHz BW LTE-Band 25
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



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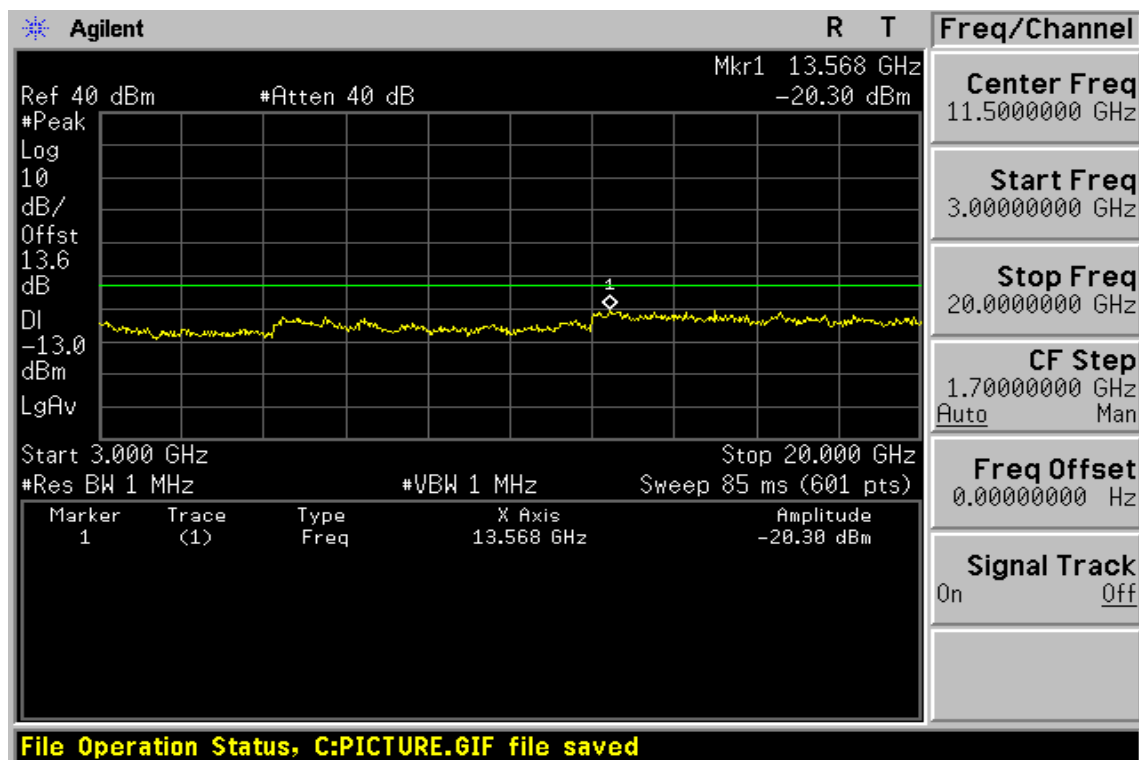
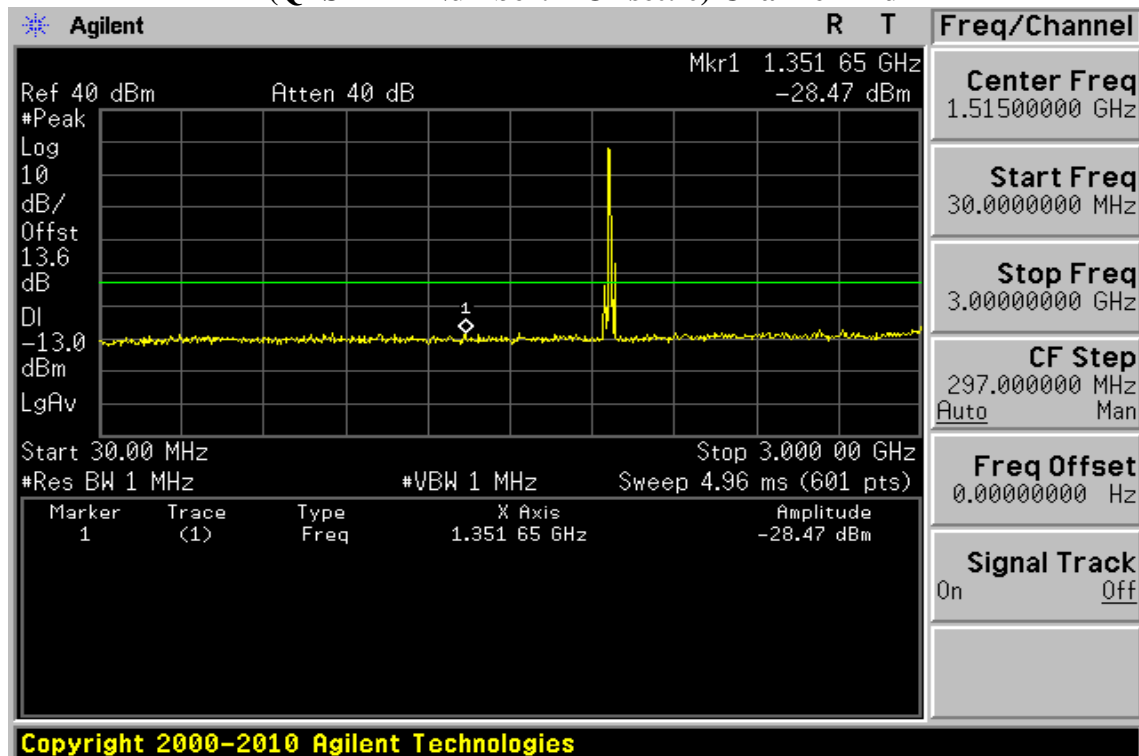
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**Figure 9-82: Out of Band emission at antenna terminals – 20MHz BW LTE-Band 25
(QPSK RB Number: 1 Offset: 0) Channel Mid**



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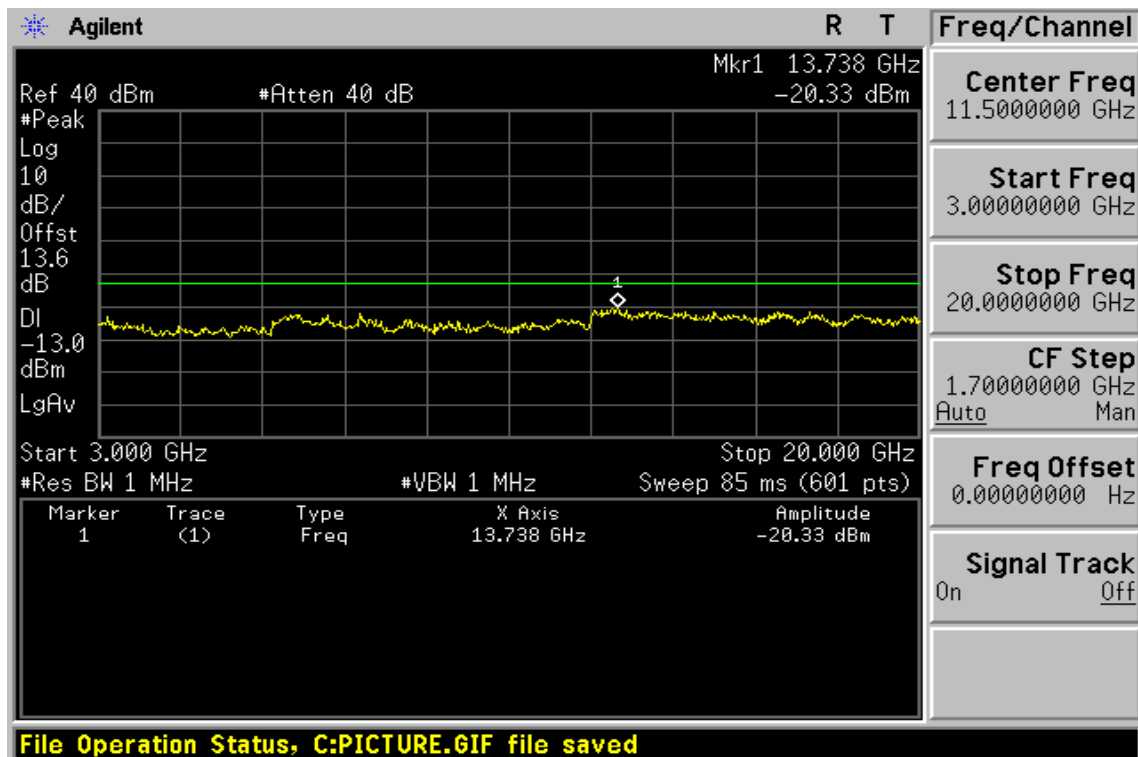
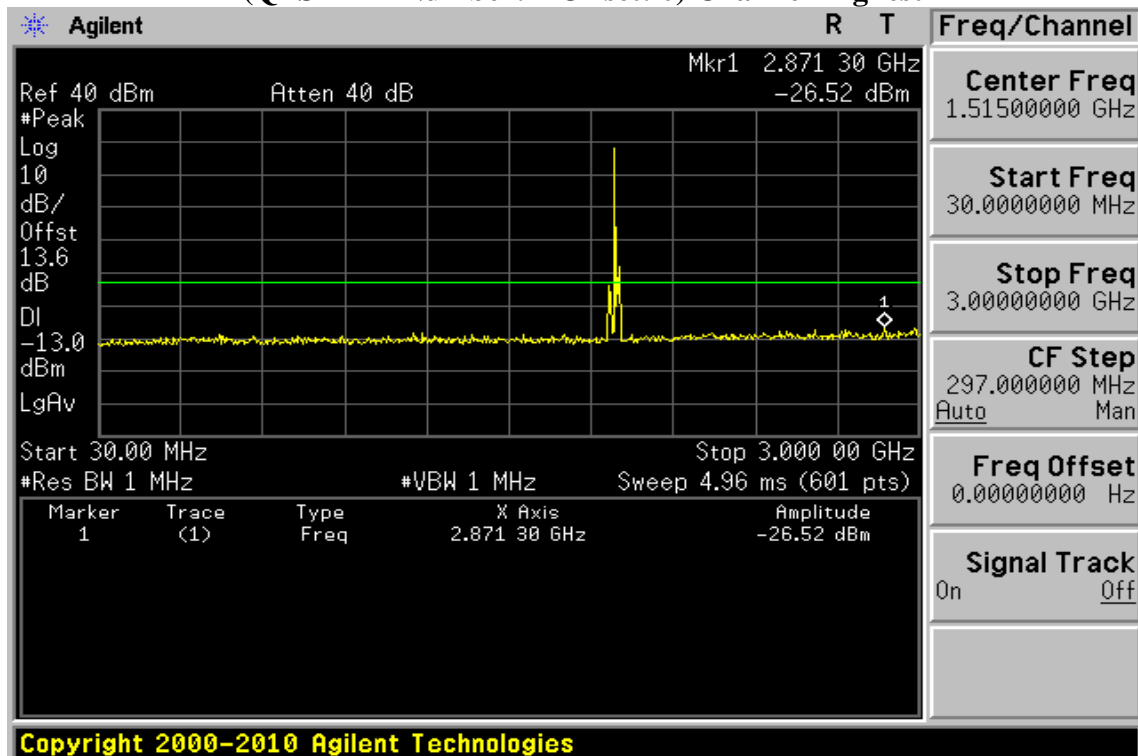
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**Figure 9-83: Out of Band emission at antenna terminals –20MHz BW LTE-Band 25
(QPSK RB Number: 1 Offset: 0) Channel Highest**



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Figure 9-84: Band edge emission at antenna terminals – 20MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 0) Channel Lowest

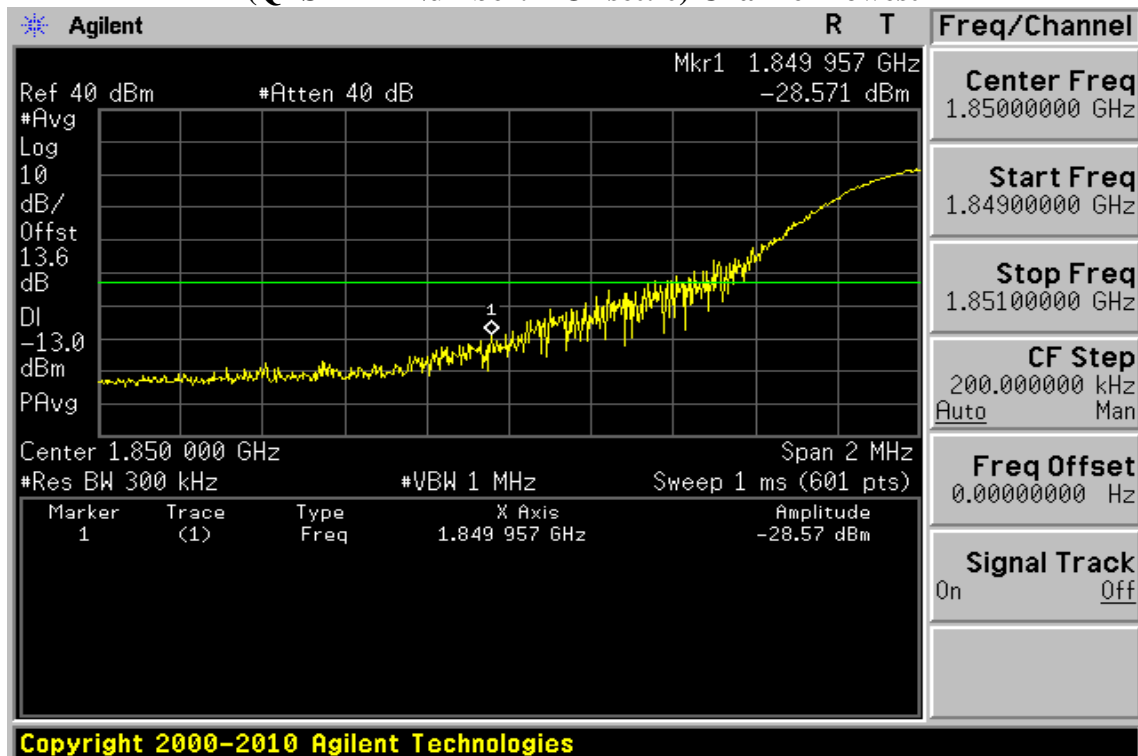
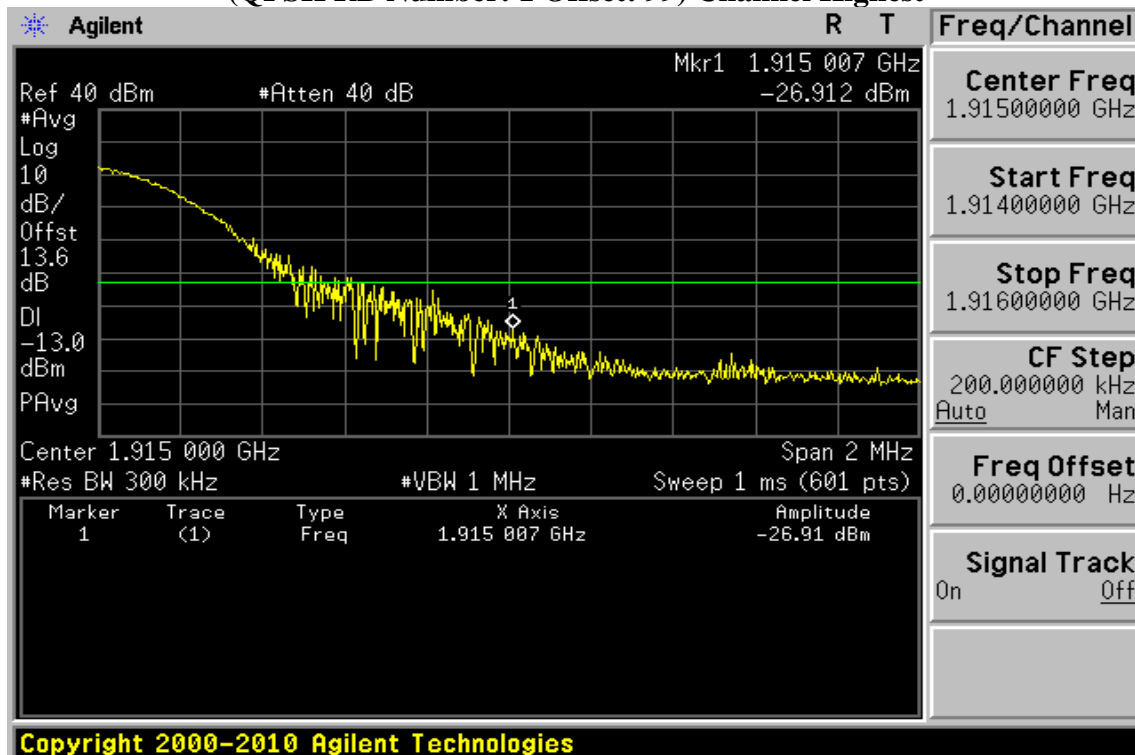


Figure 9-85: Band edge emission at antenna terminals – 20MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 99) Channel Highest



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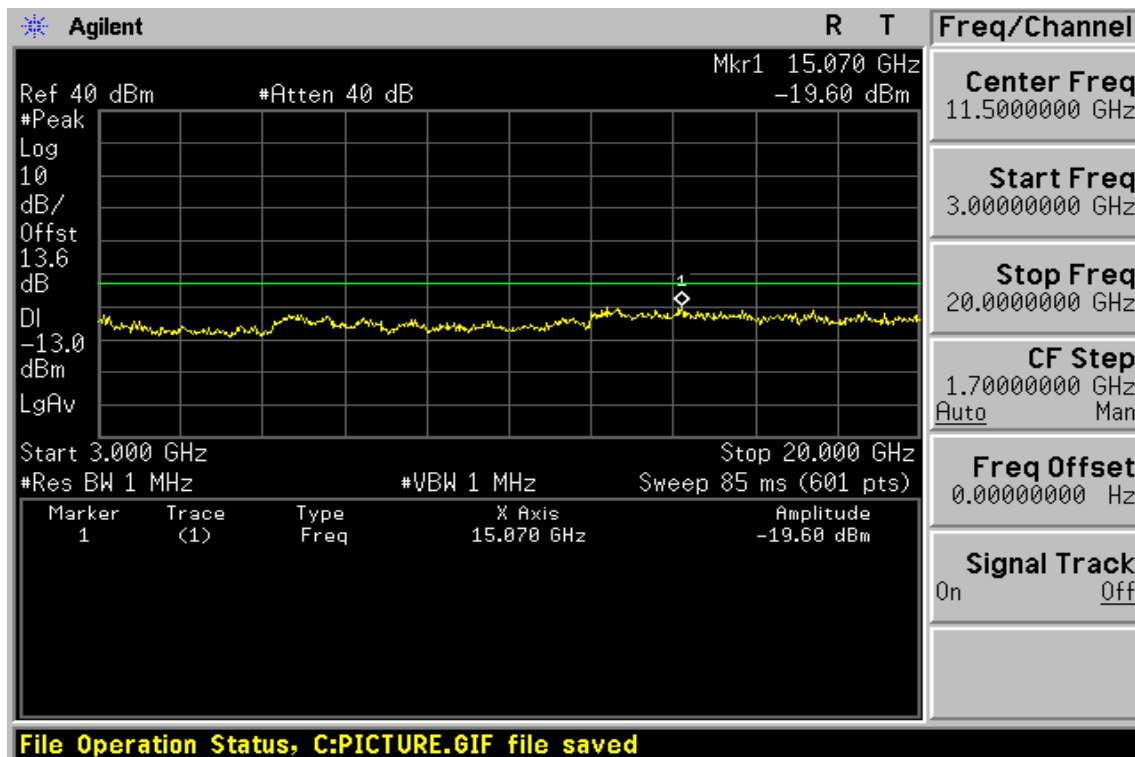
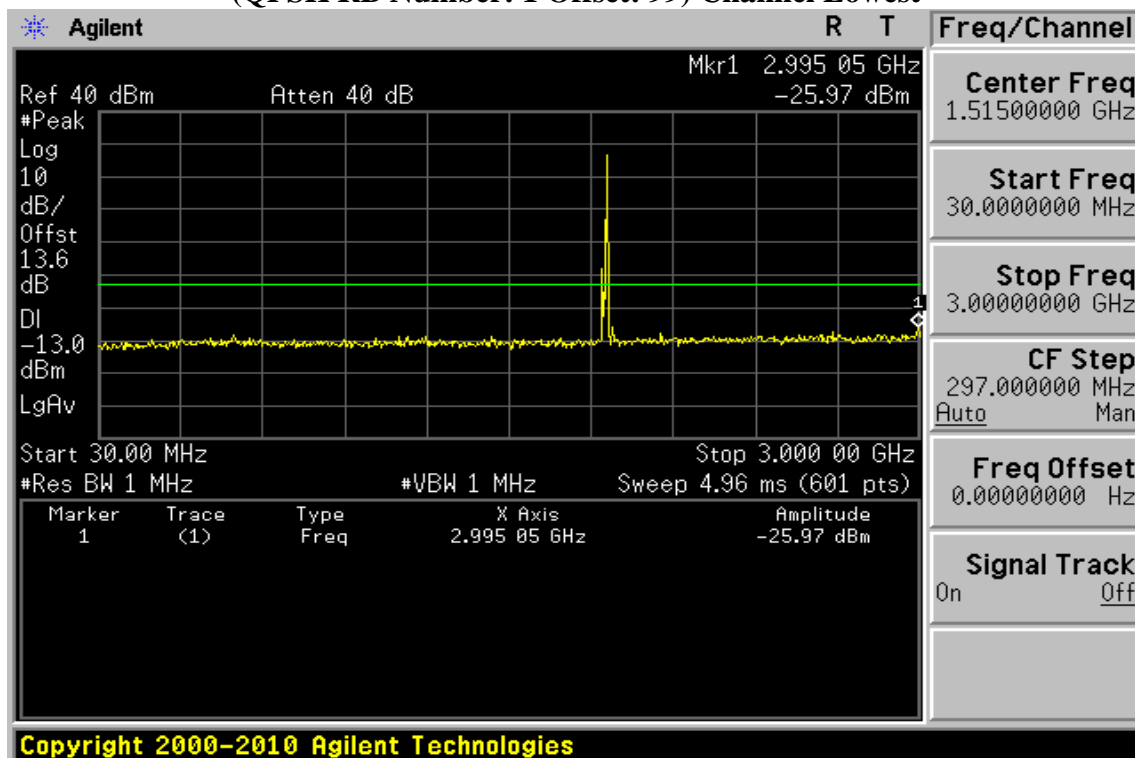
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**Figure 9-86: Out of Band emission at antenna terminals – 20MHz BW LTE-Band 25
(QPSK RB Number: 1 Offset: 99) Channel Lowest**



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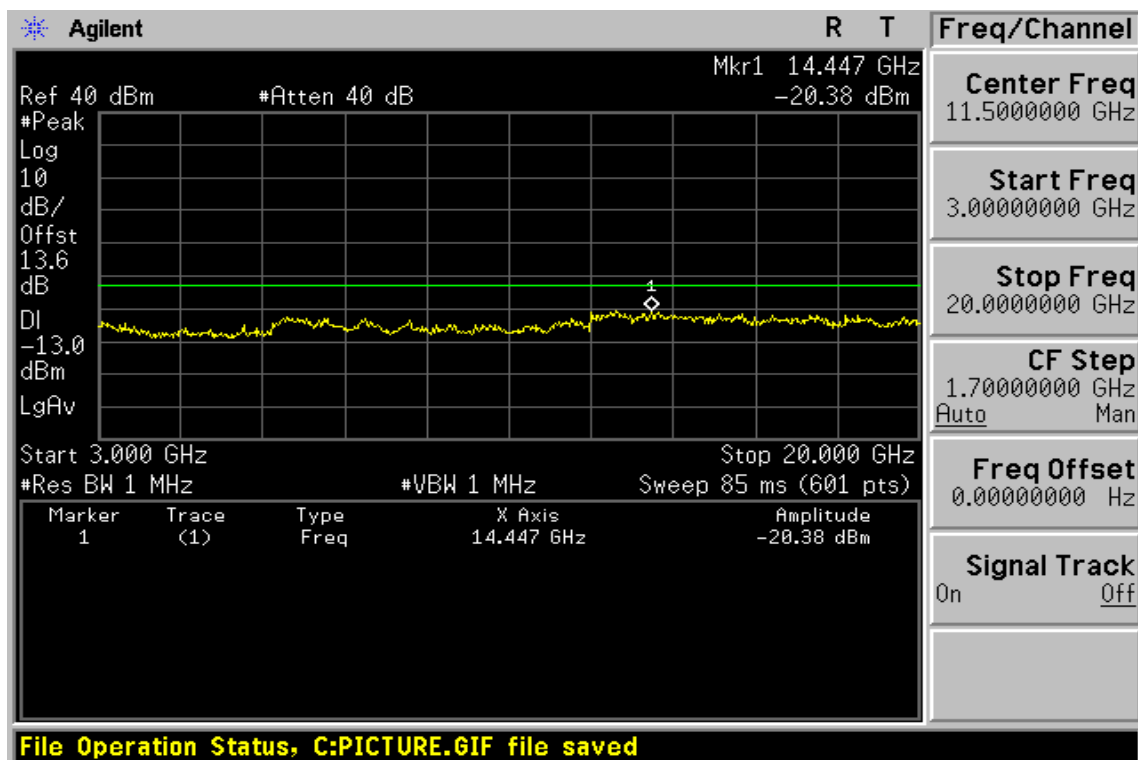
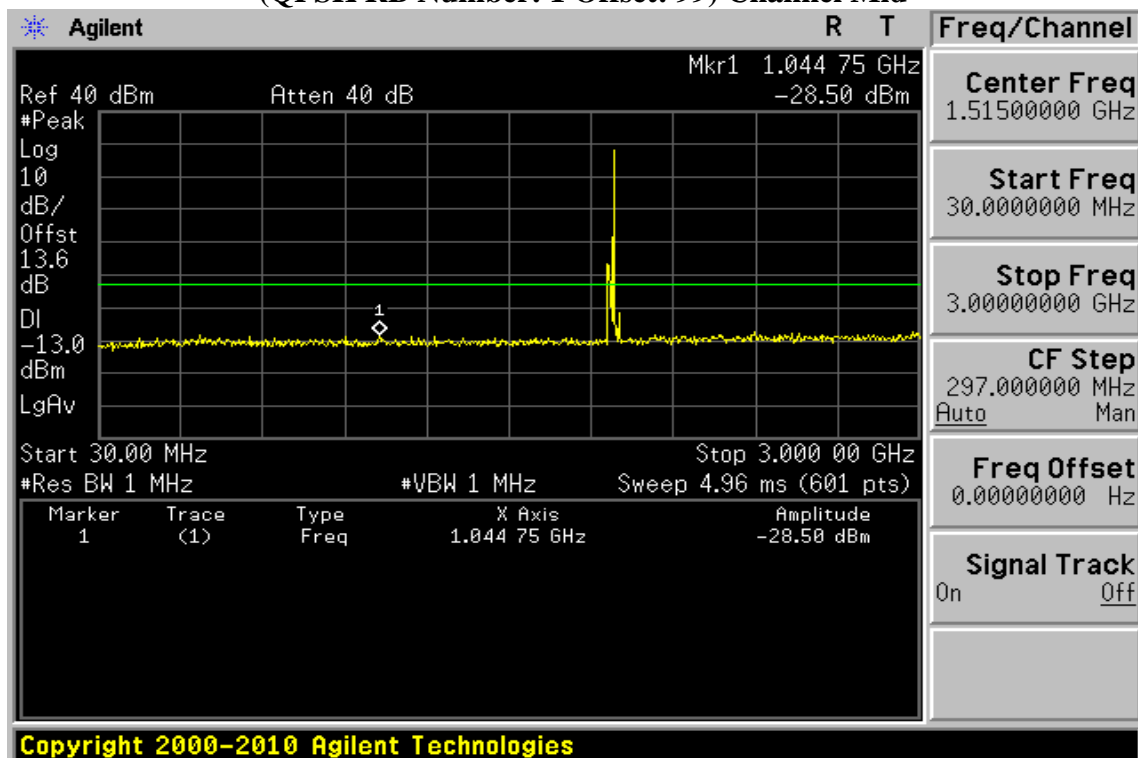
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**Figure 9-87: Out of Band emission at antenna terminals –20MHz BW LTE-Band 25
(QPSK RB Number: 1 Offset: 99) Channel Mid**



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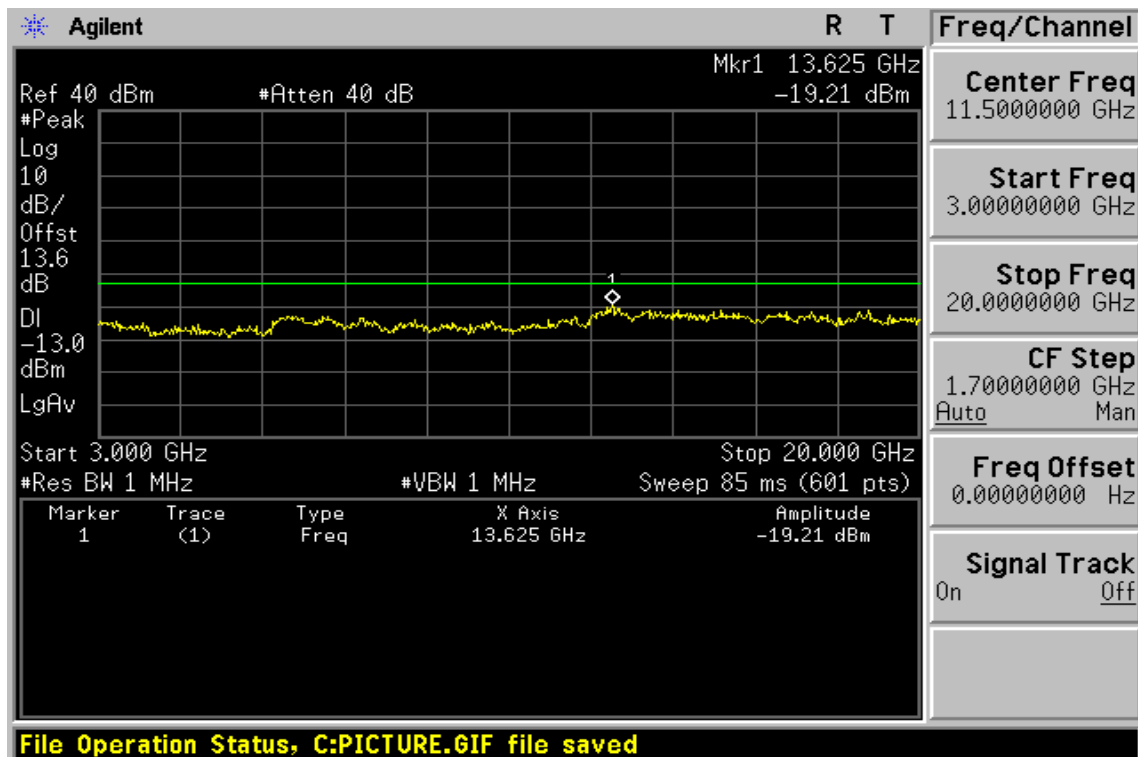
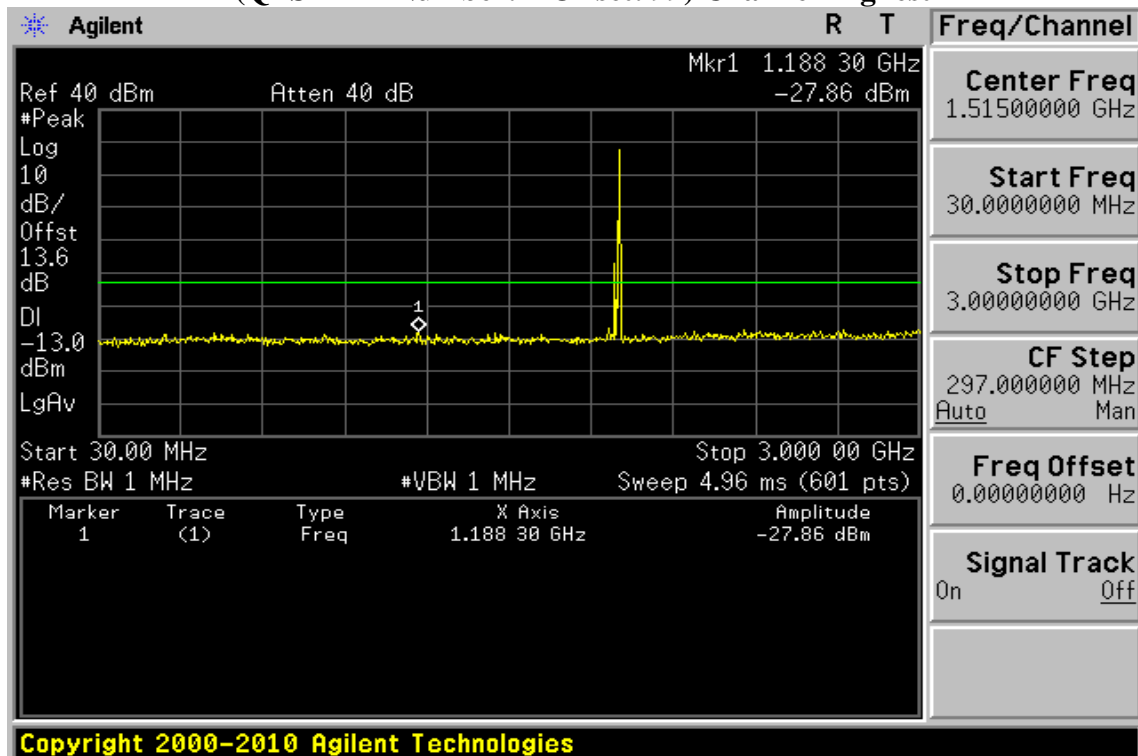
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**Figure 9-88: Out of Band emission at antenna terminals –20MHz BW LTE-Band 25
(QPSK RB Number: 1 Offset: 99) Channel Highest**



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Figure 9-89: Band edge emission at antenna terminals – 20MHz BW LTE-Band 25 (QPSK RB Number: 100 Offset: 0) Channel Lowest

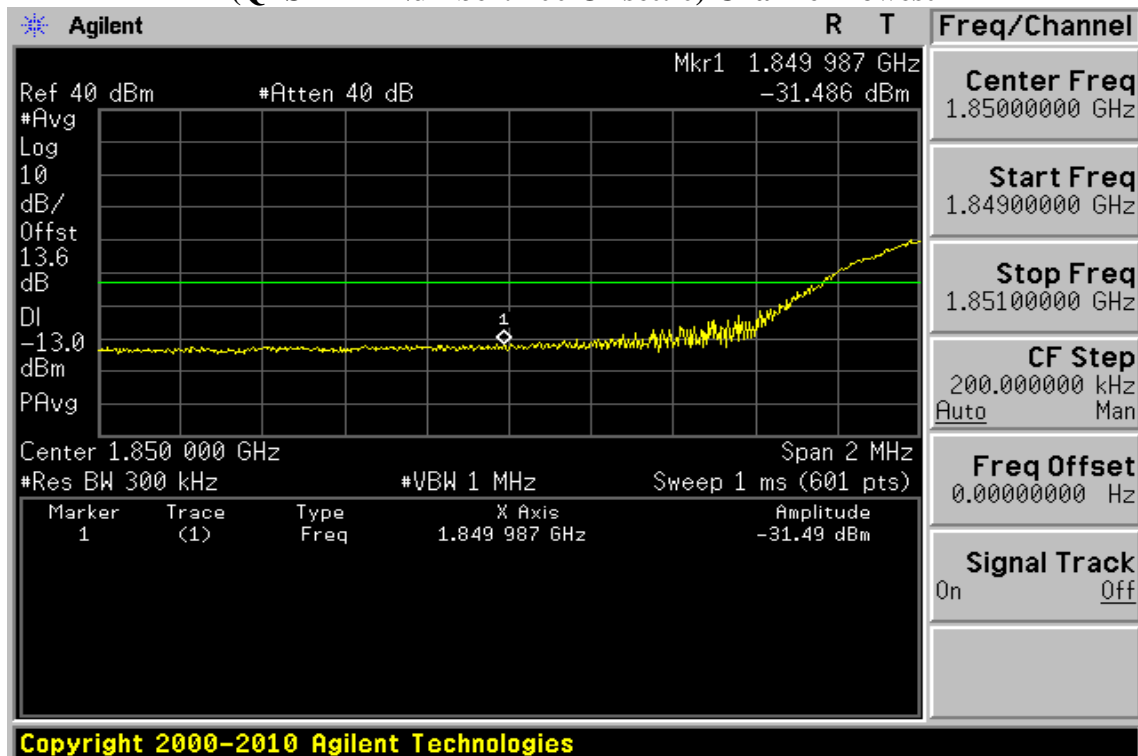
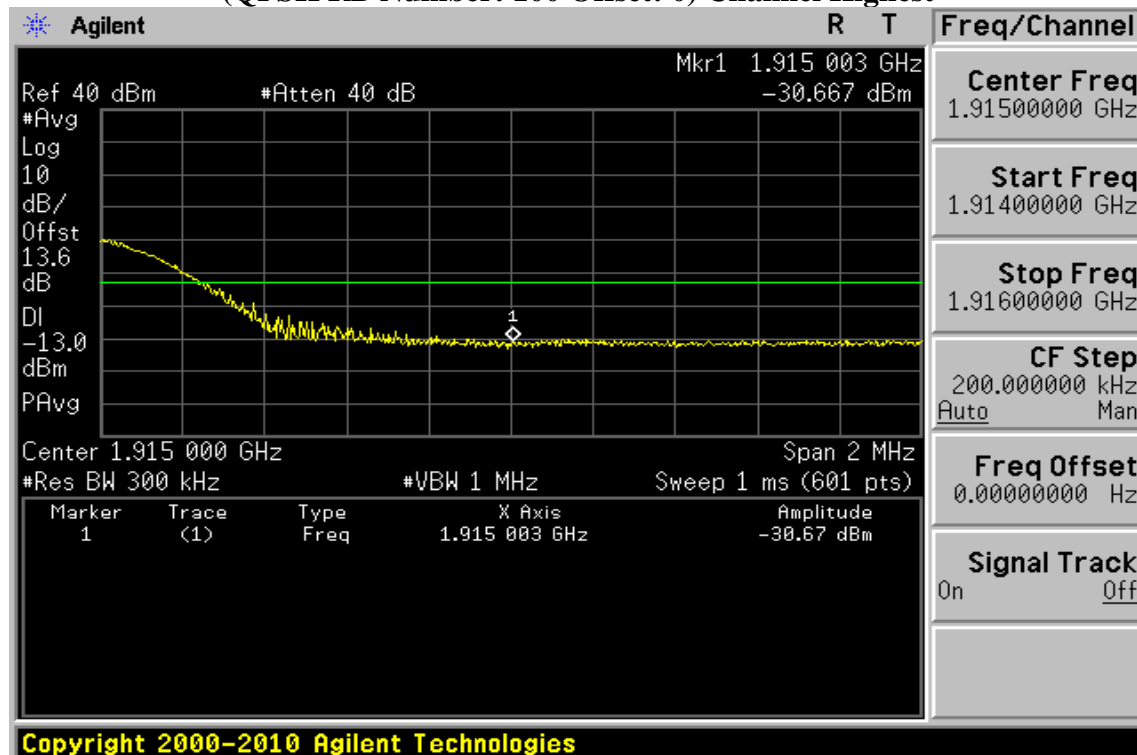


Figure 9-90: Band edge emission at antenna terminals – 20MHz BW LTE-Band 25 (QPSK RB Number: 100 Offset: 0) Channel Highest



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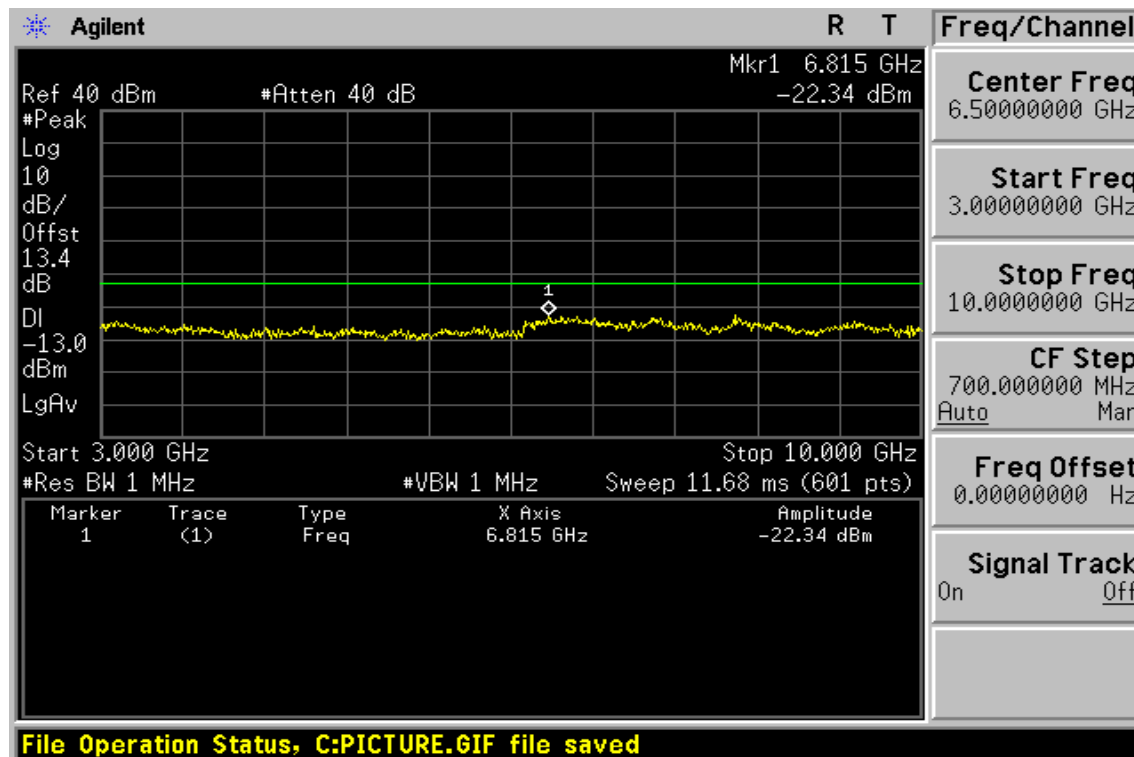
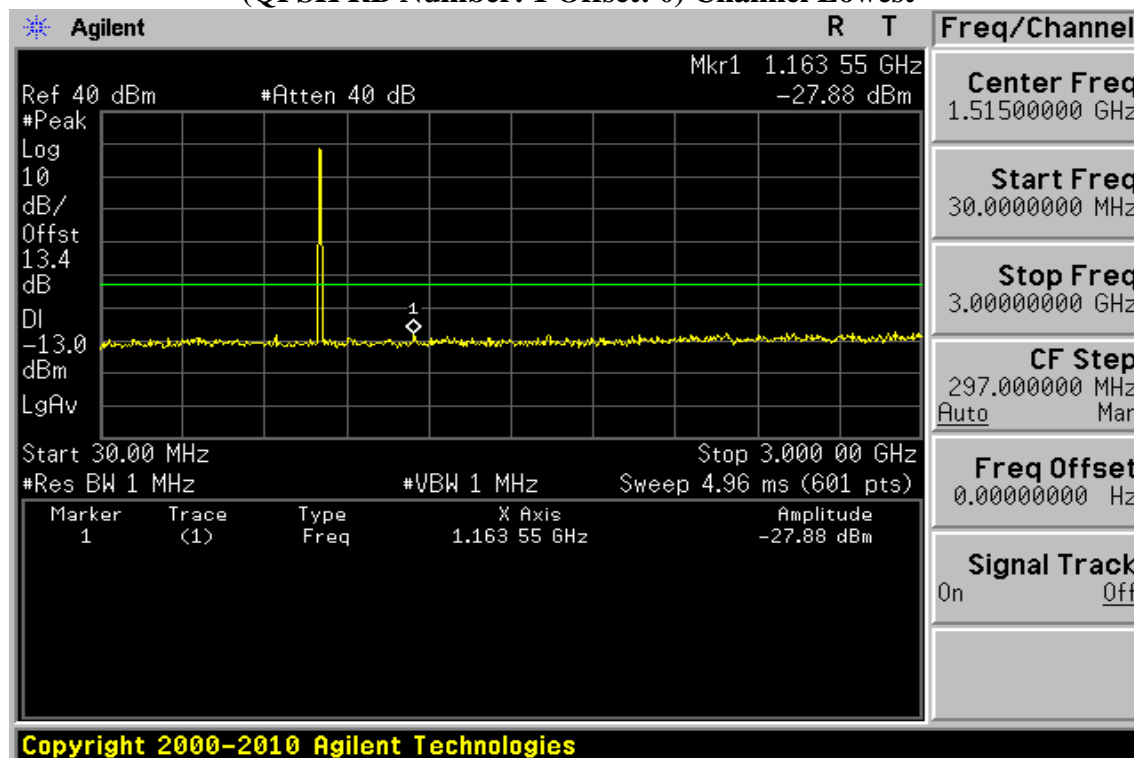
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Figure 9-91: Out of Band emission at antenna terminals – 1.4MHz BW LTE-Band 26 (QPSK RB Number: 1 Offset: 0) Channel Lowest



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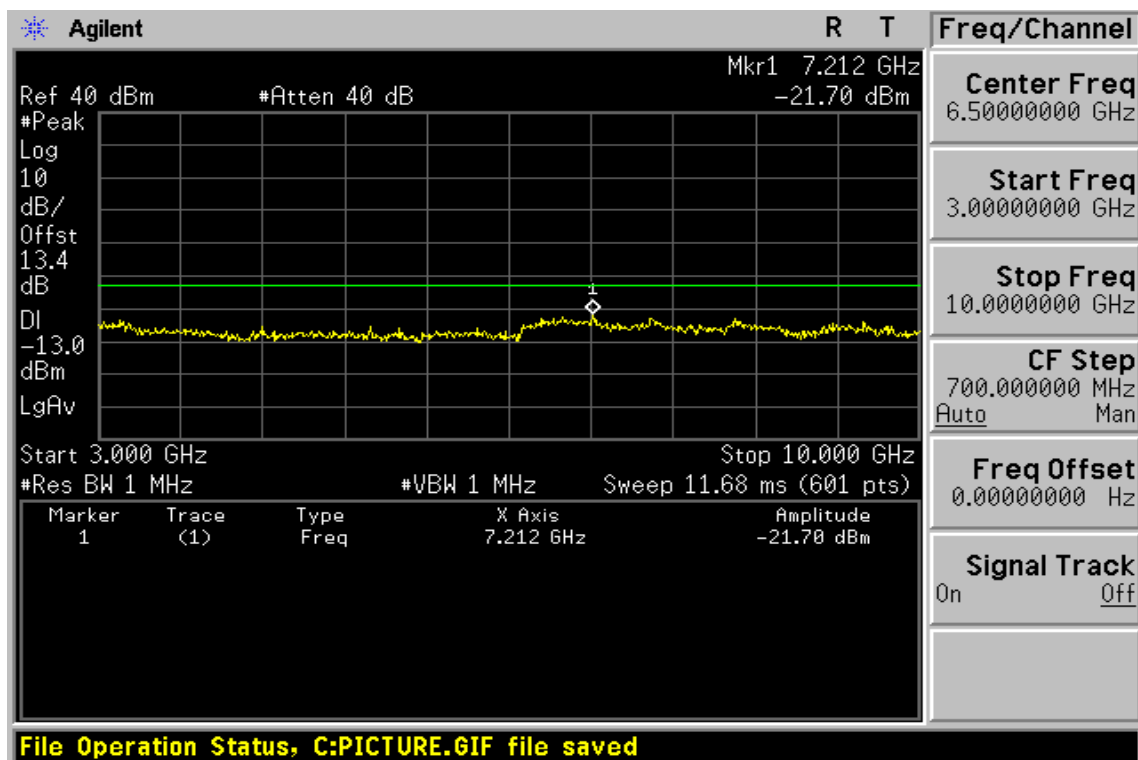
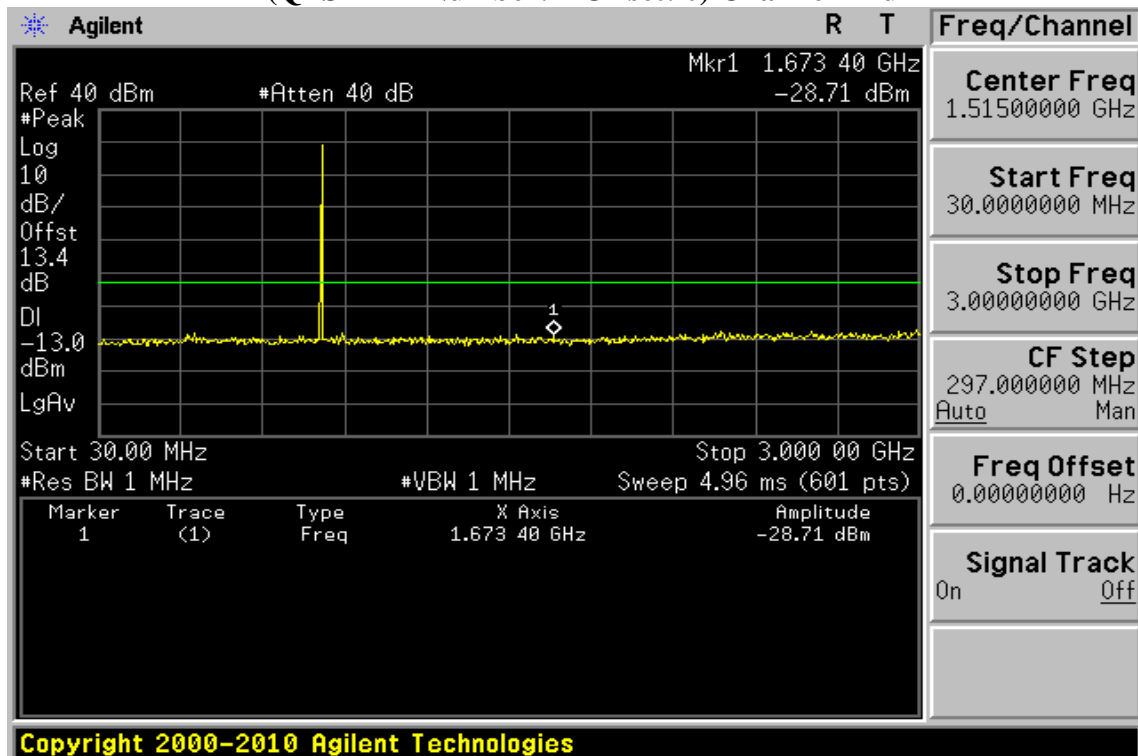
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Figure 9-92: Out of Band emission at antenna terminals – 1.4MHz BW LTE-Band 26 (QPSK RB Number: 1 Offset: 0) Channel Mid



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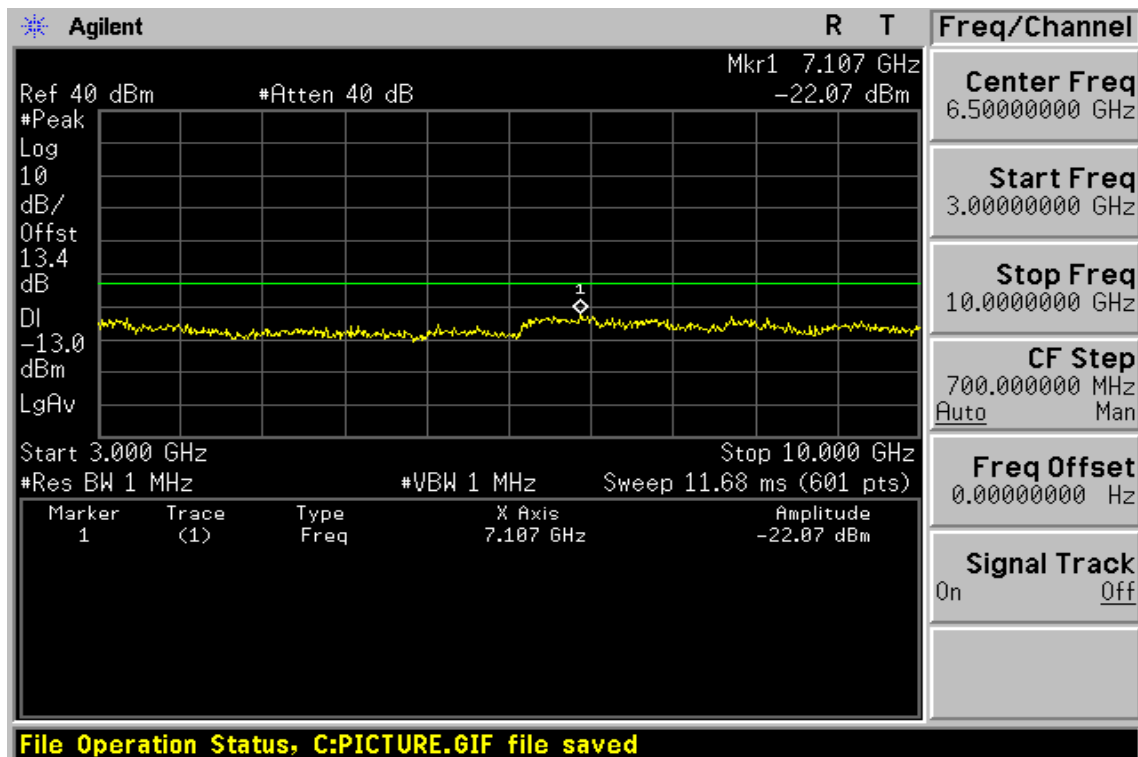
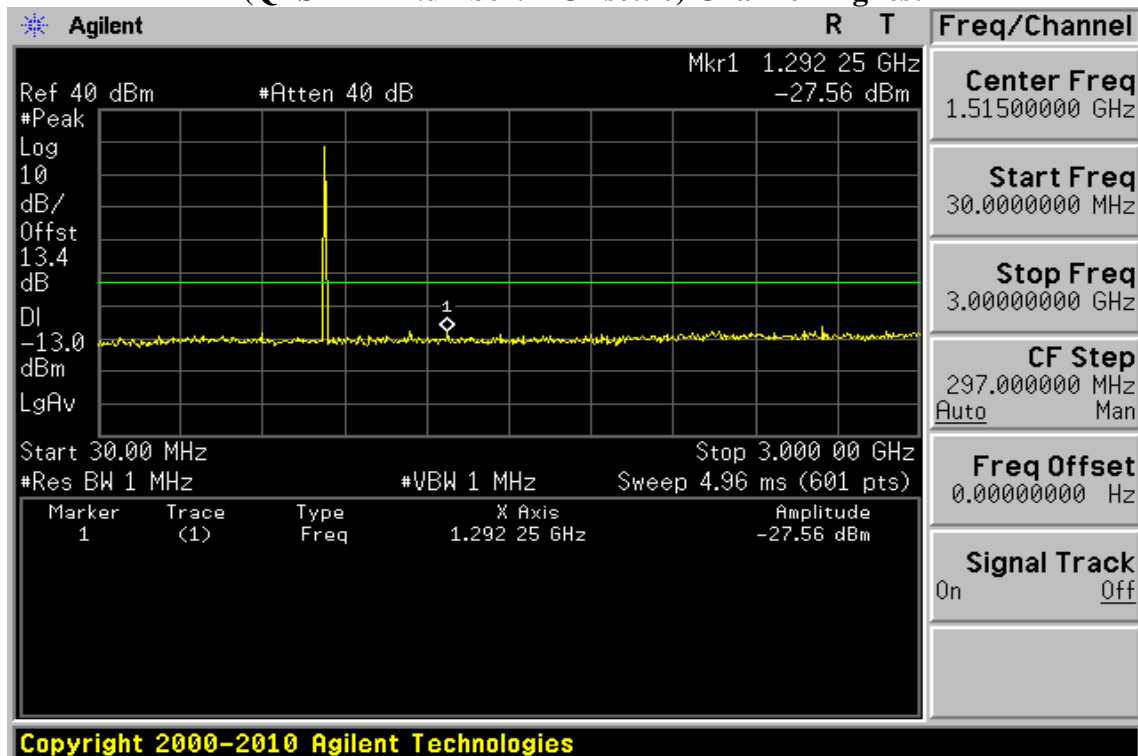
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**Figure 9-93: Out of Band emission at antenna terminals –1.4MHz BW LTE-Band 26
(QPSK RB Number: 1 Offset: 0) Channel Highest**



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Figure 9-94: Band edge emission at antenna terminals – 1.4MHz BW LTE-Band 26 (QPSK RB Number: 1 Offset: 0) Channel Lowest

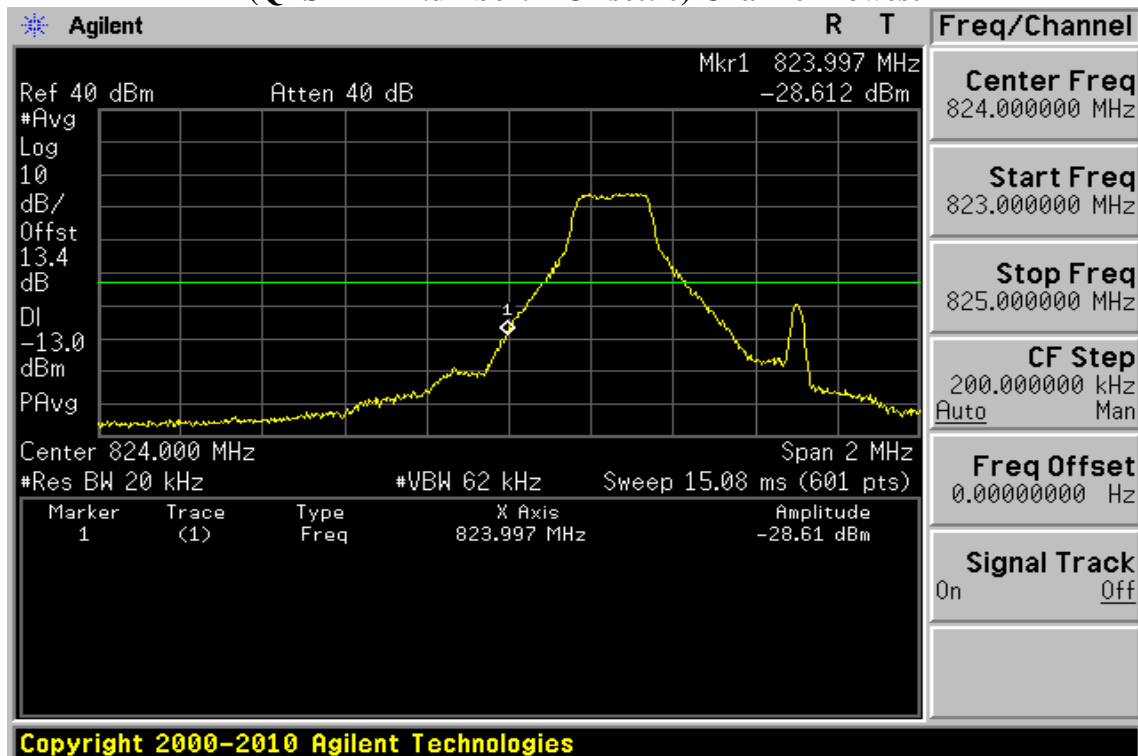
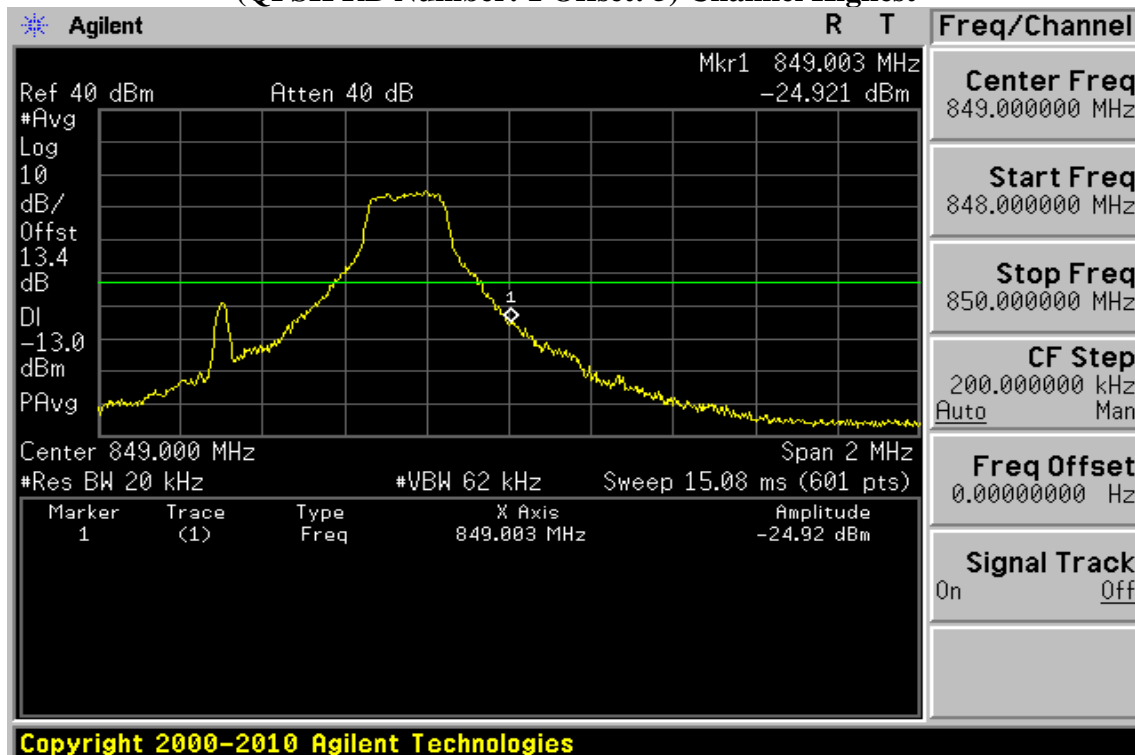


Figure 9-95: Band edge emission at antenna terminals – 1.4MHz BW LTE-Band 26 (QPSK RB Number: 1 Offset: 5) Channel Highest



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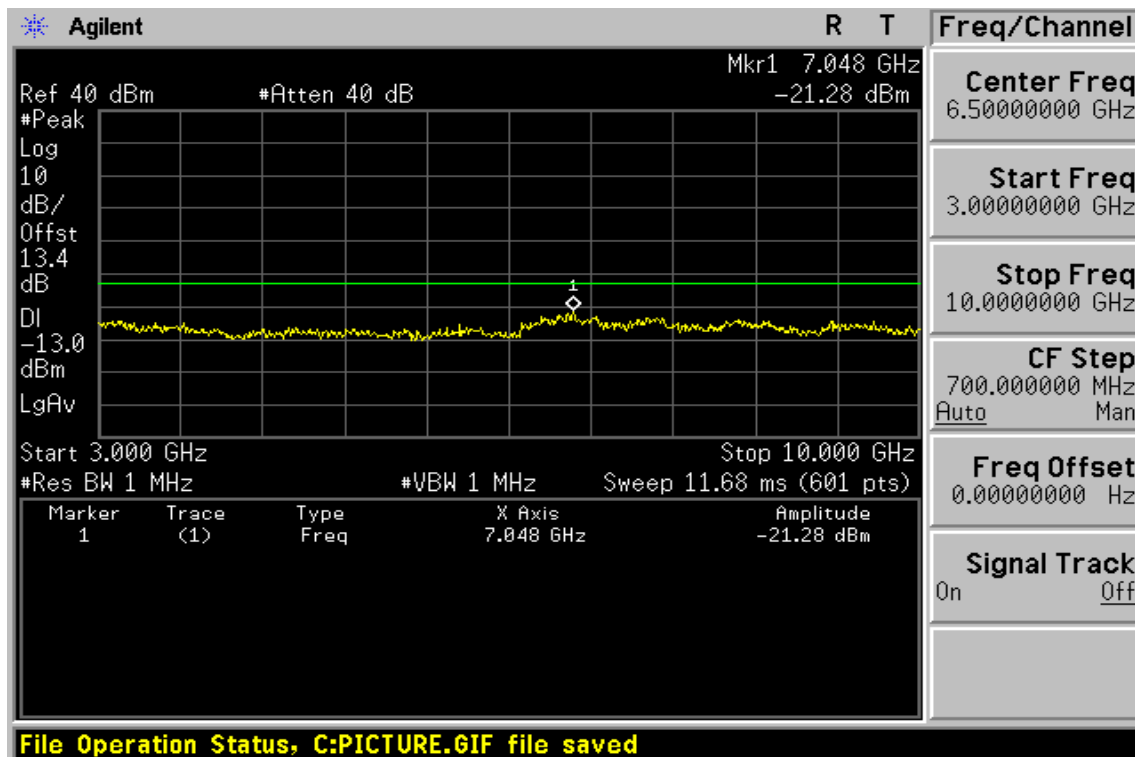
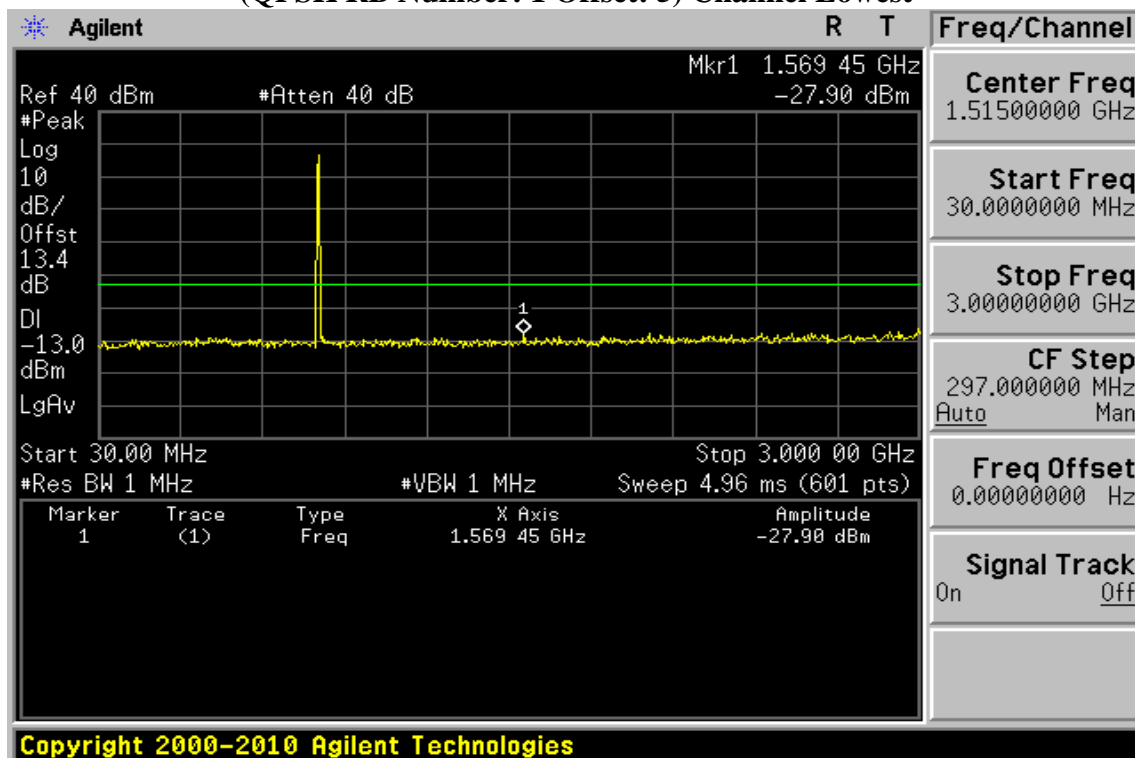
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Figure 9-96: Out of Band emission at antenna terminals – 1.4MHz BW LTE-Band 26 (QPSK RB Number: 1 Offset: 5) Channel Lowest



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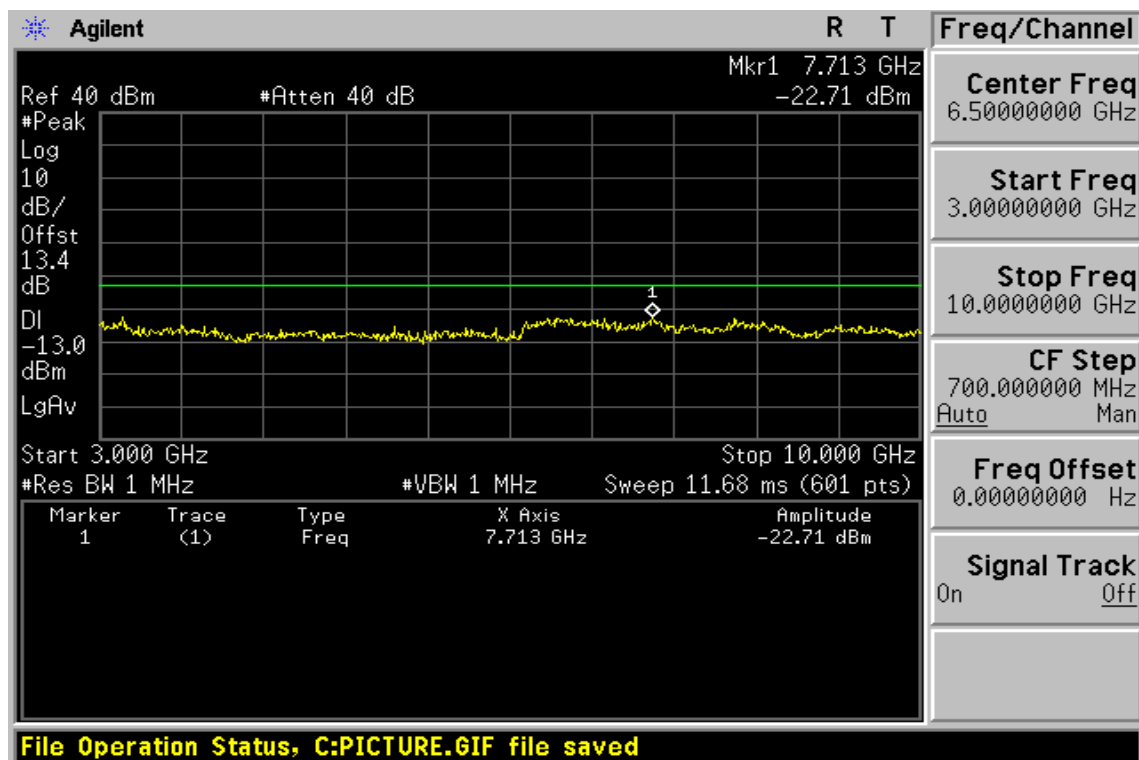
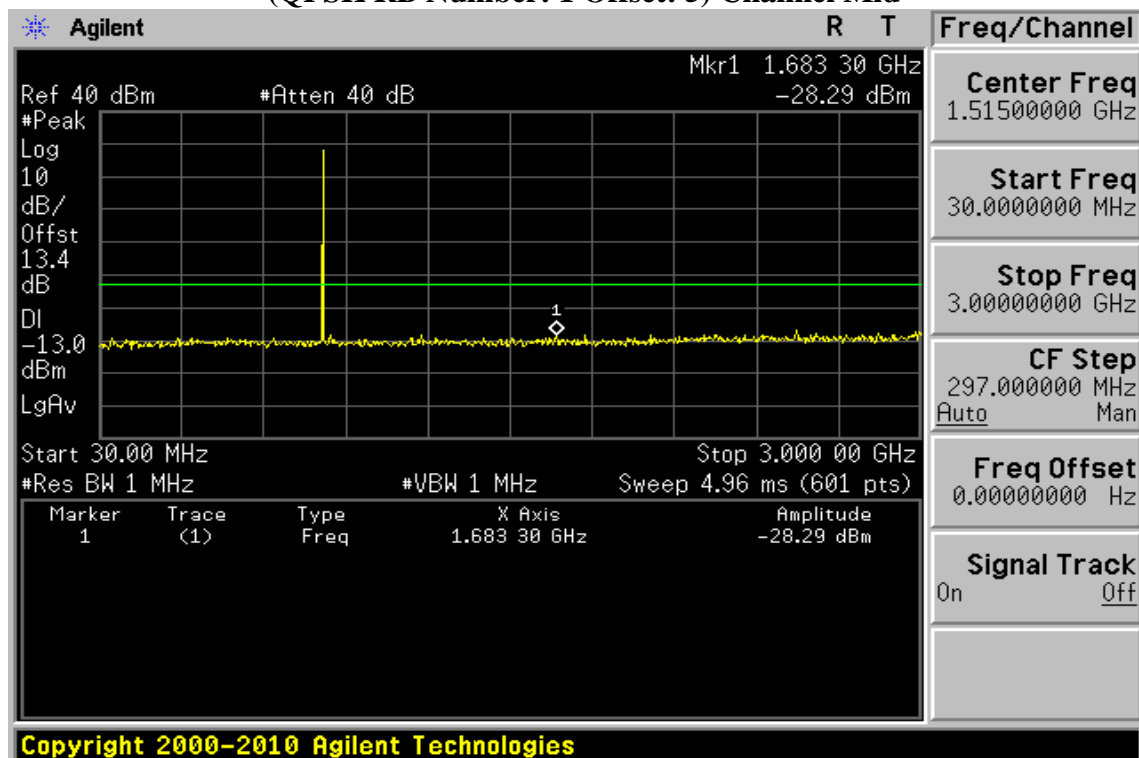
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**Figure 9-97: Out of Band emission at antenna terminals –1.4MHz BW LTE-Band 26
(QPSK RB Number: 1 Offset: 5) Channel Mid**



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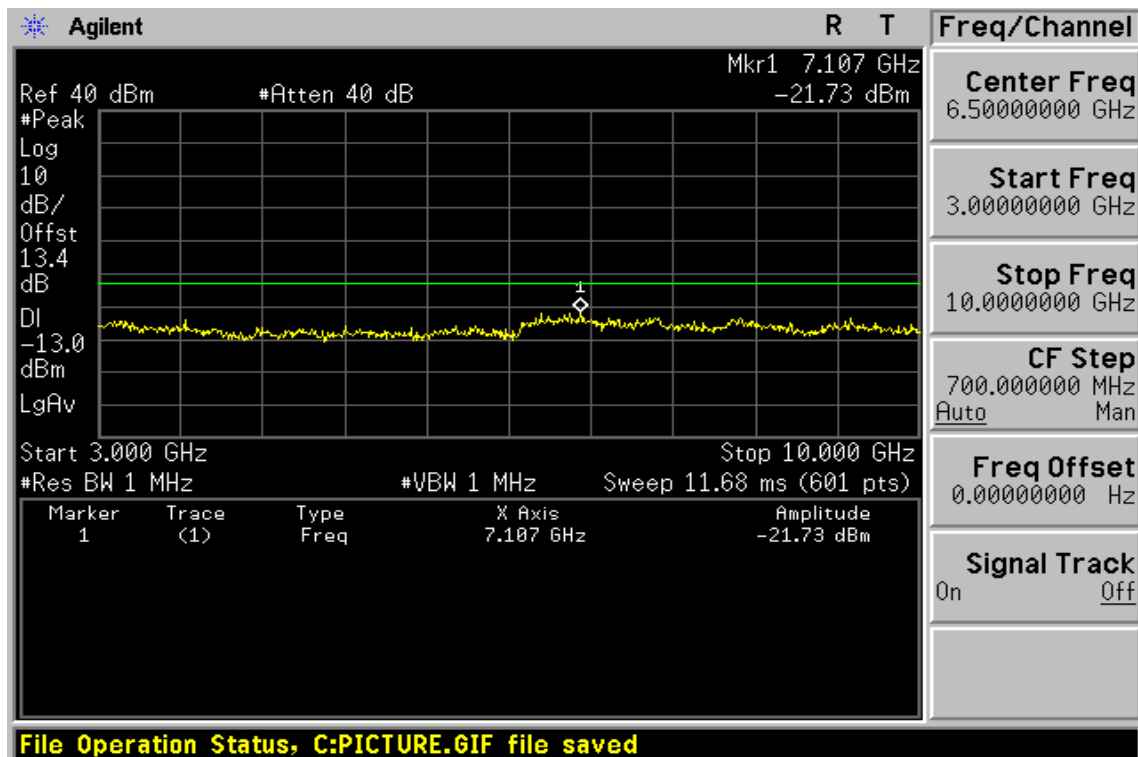
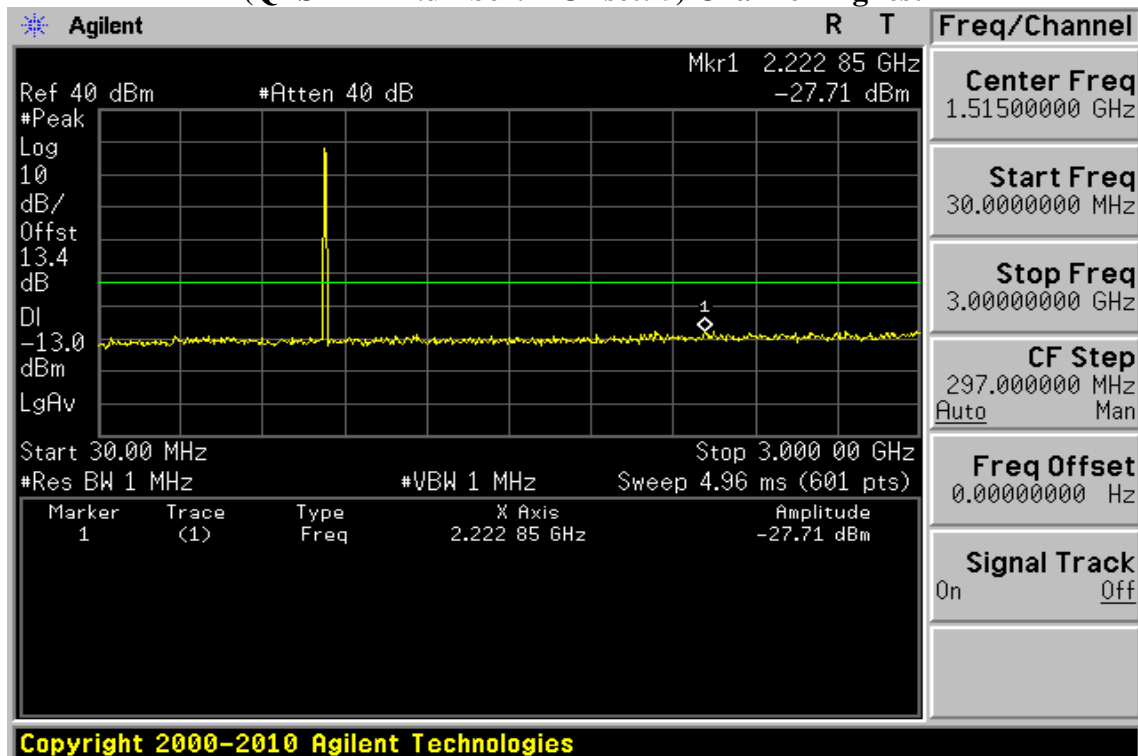
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Figure 9-98: Out of Band emission at antenna terminals – 1.4MHz BW LTE-Band 26 (QPSK RB Number: 1 Offset: 5) Channel Highest



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Figure 9-99: Band edge emission at antenna terminals – 1.4MHz BW LTE-Band 26 (QPSK RB Number: 6 Offset: 0) Channel Lowest

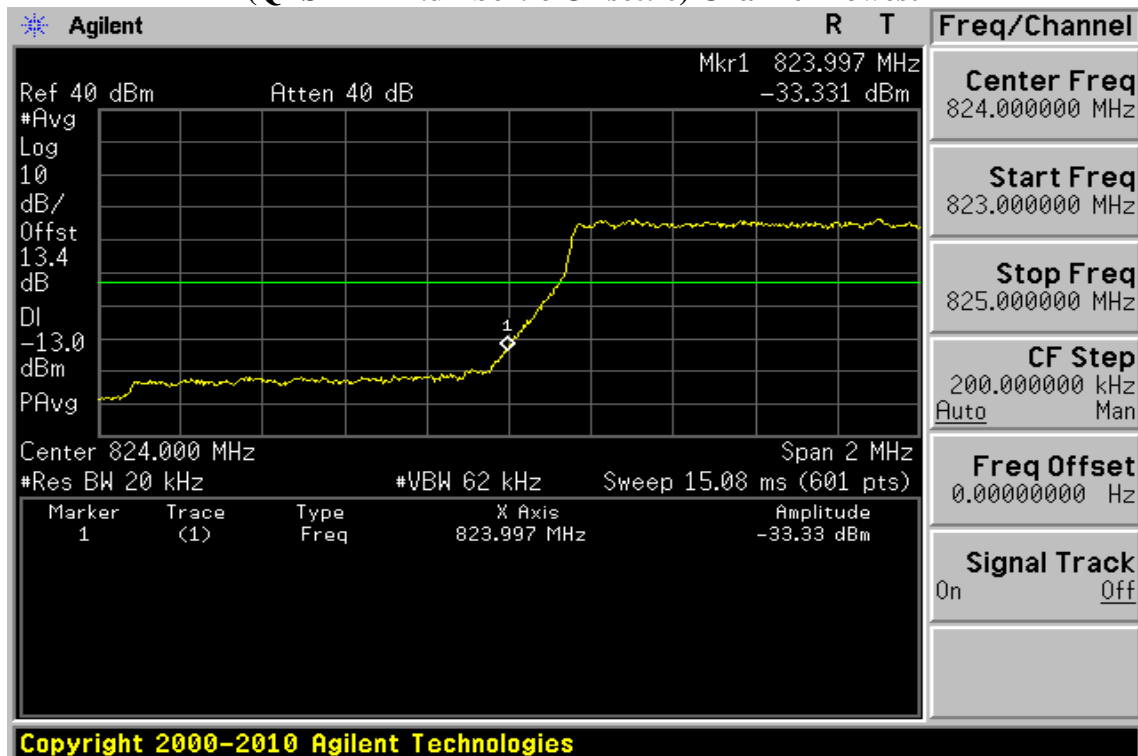
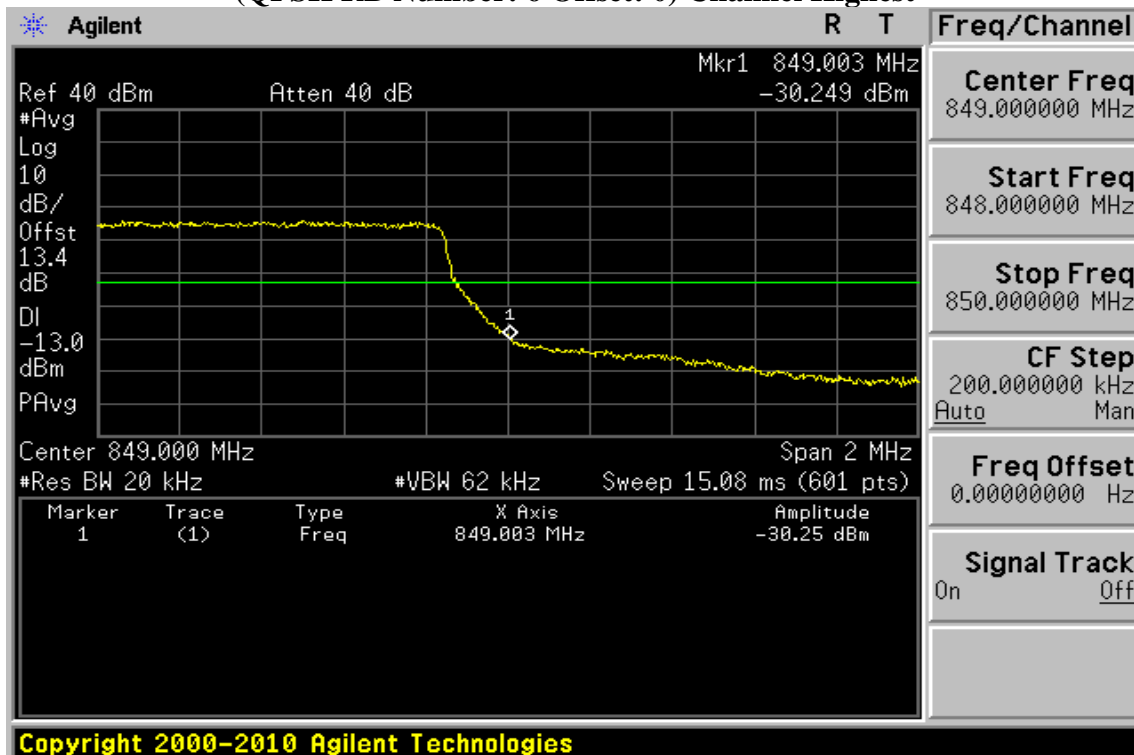


Figure 9-100: Band edge emission at antenna terminals –1.4MHz BW LTE-Band 26 (QPSK RB Number: 6 Offset: 0) Channel Highest



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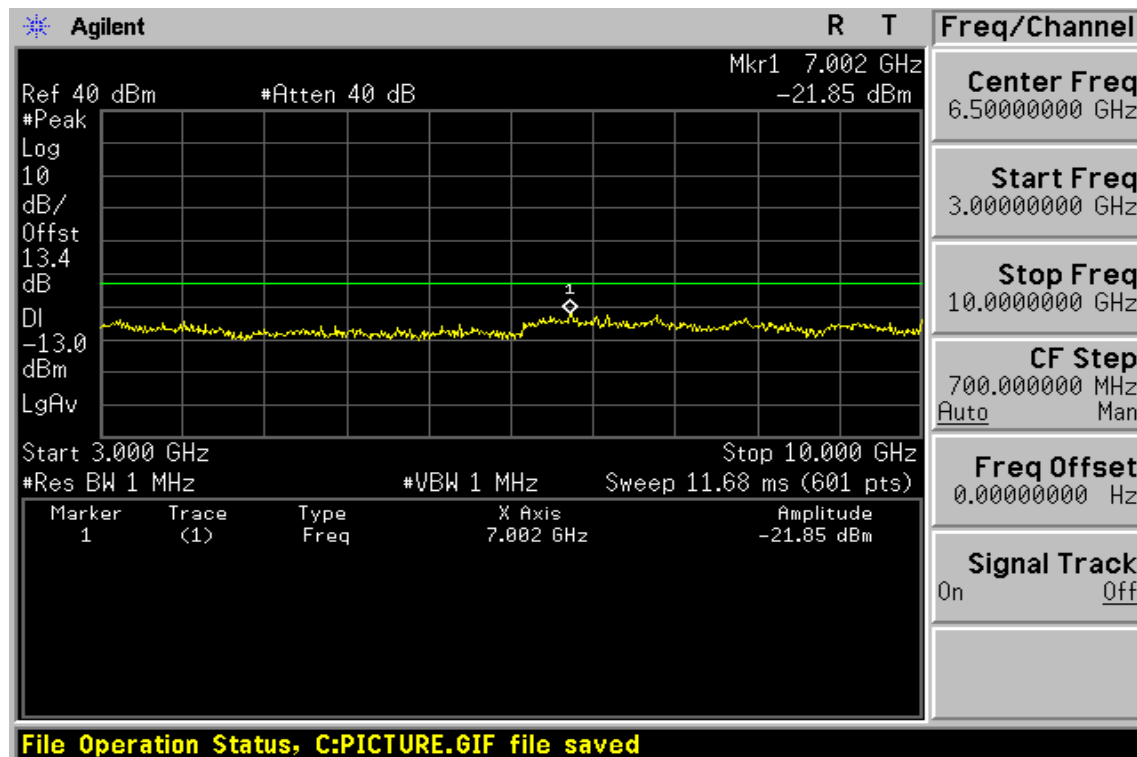
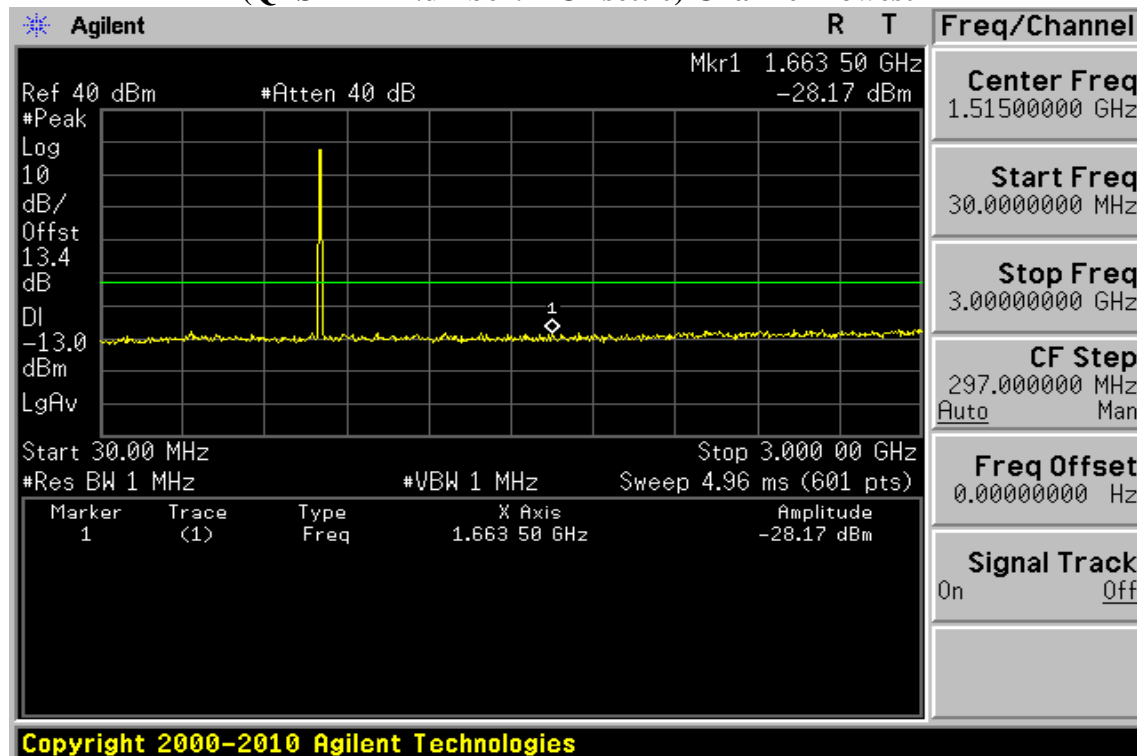
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Figure 9-101: Out of Band emission at antenna terminals – 3MHz BW LTE-Band 26 (QPSK RB Number: 1 Offset: 0) Channel Lowest



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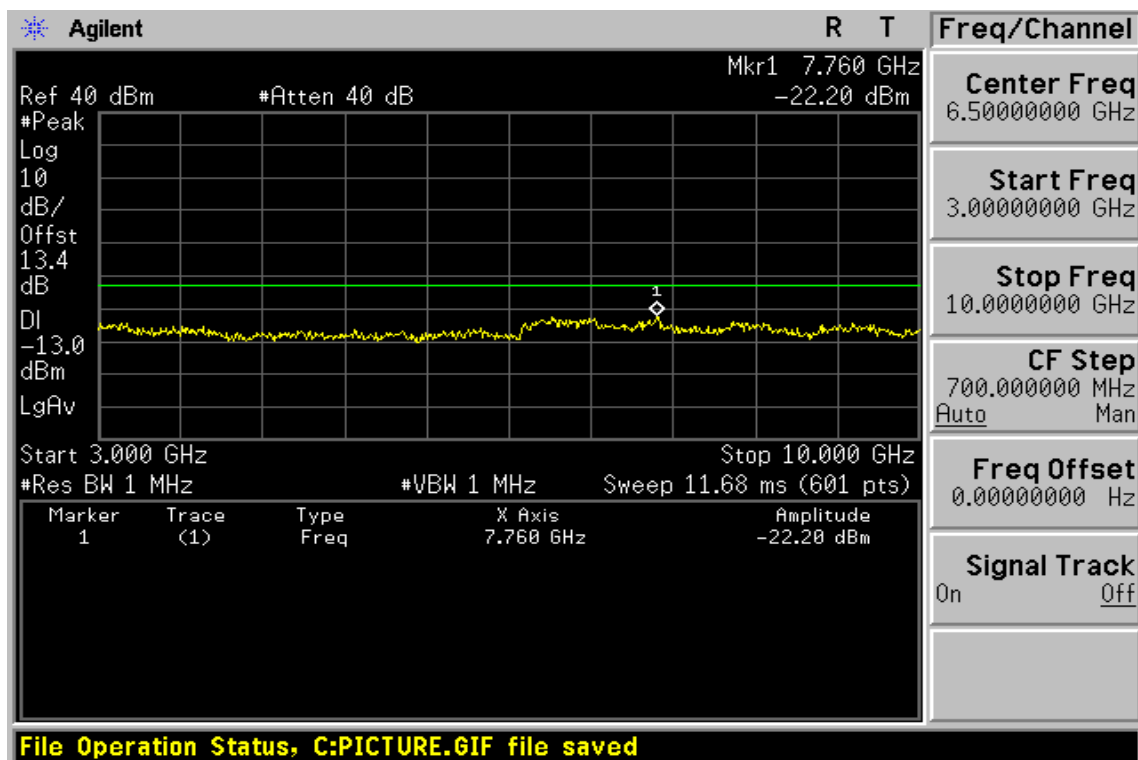
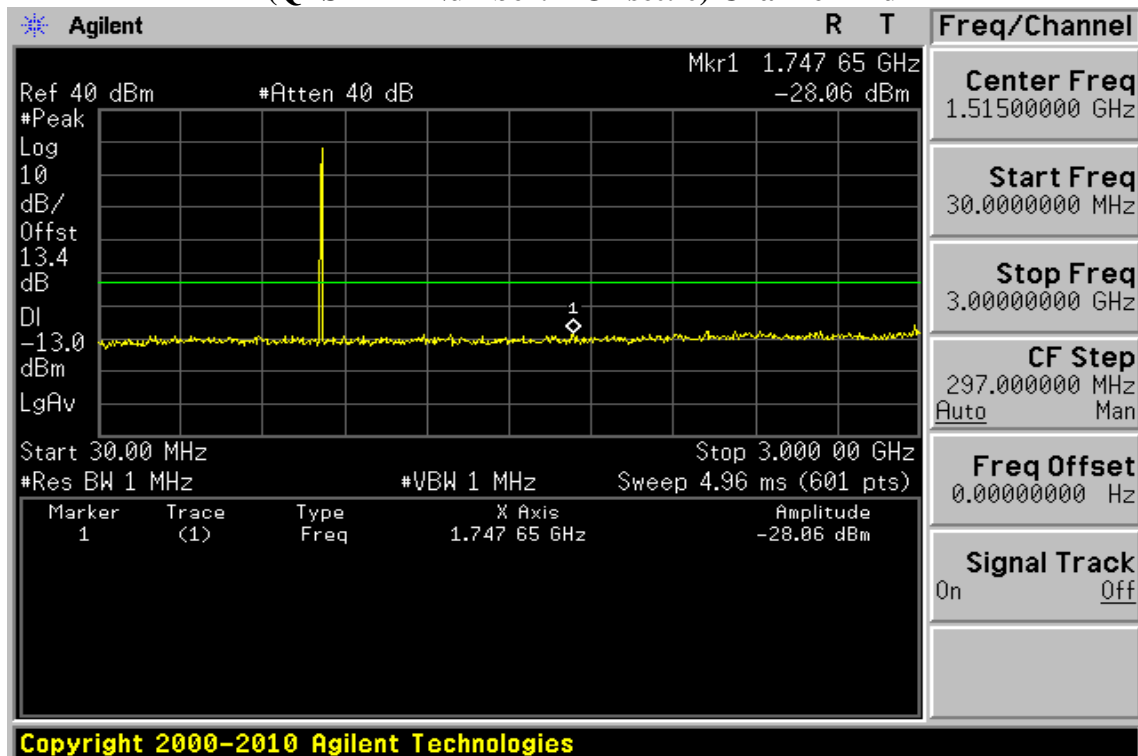
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Figure 9-102: Out of Band emission at antenna terminals – 3MHz BW LTE-Band 26 (QPSK RB Number: 1 Offset: 0) Channel Mid



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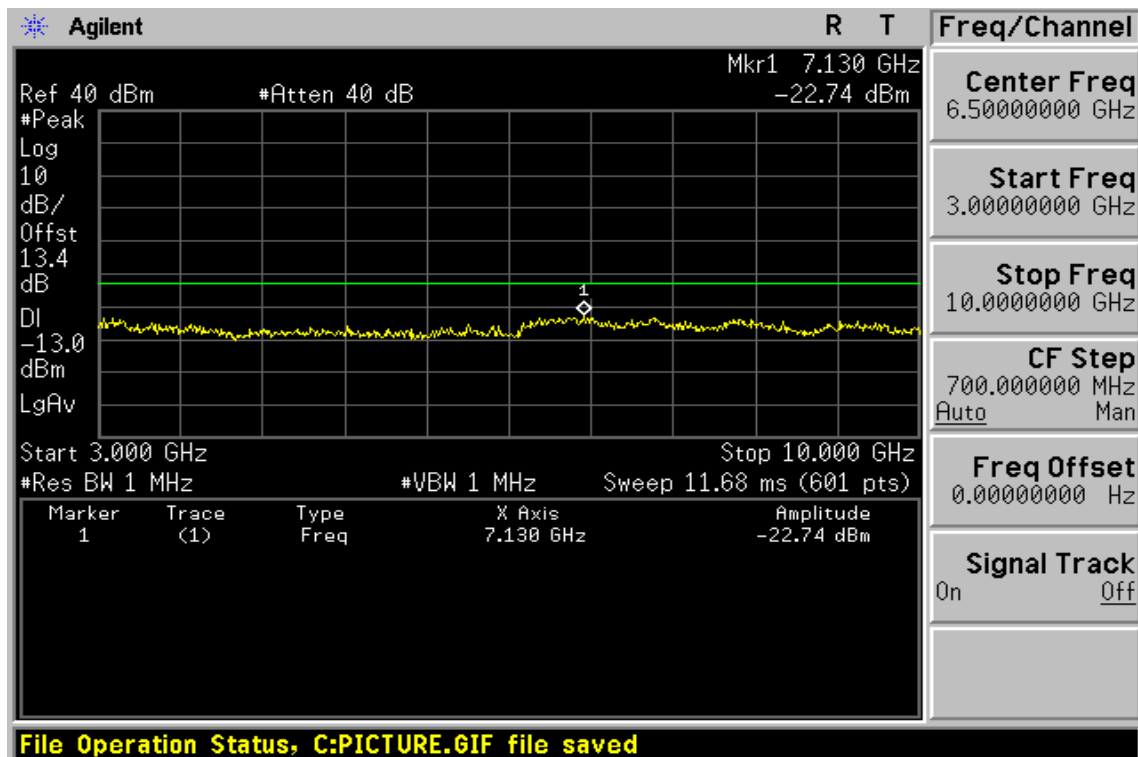
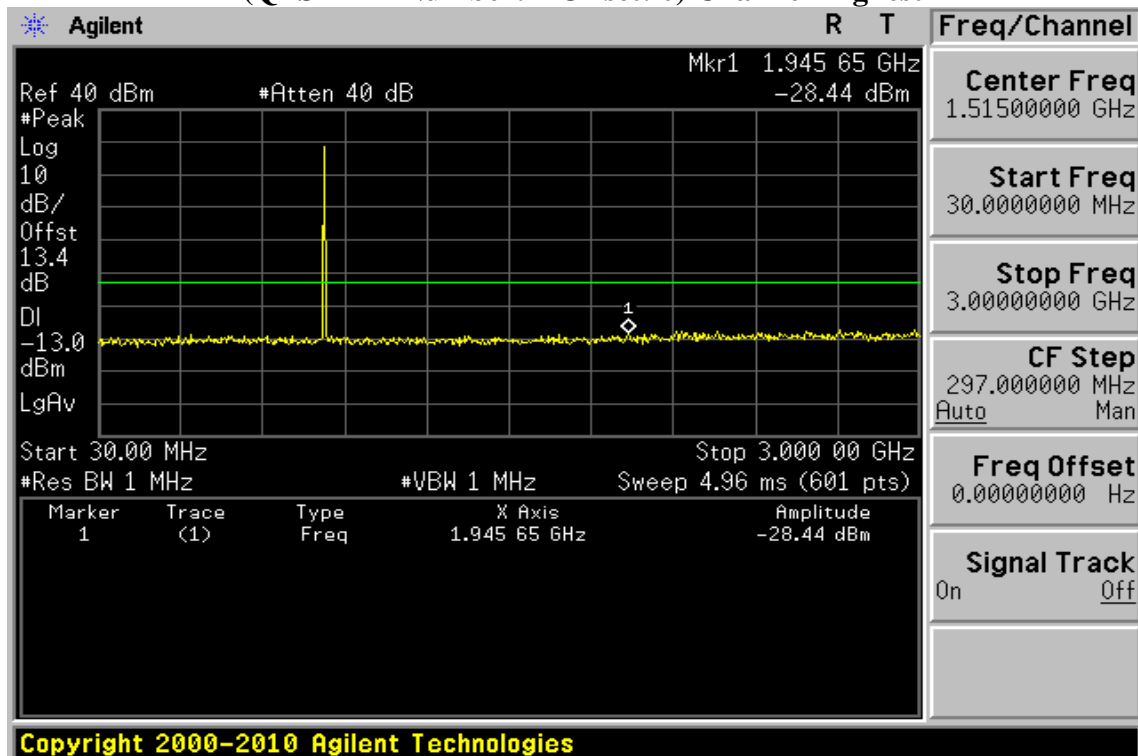
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Figure 9-103: Out of Band emission at antenna terminals –3MHz BW LTE-Band 26 (QPSK RB Number: 1 Offset: 0) Channel Highest



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Figure 9-104: Band edge emission at antenna terminals – 3MHz BW LTE-Band 26 (QPSK RB Number: 1 Offset: 0) Channel Lowest

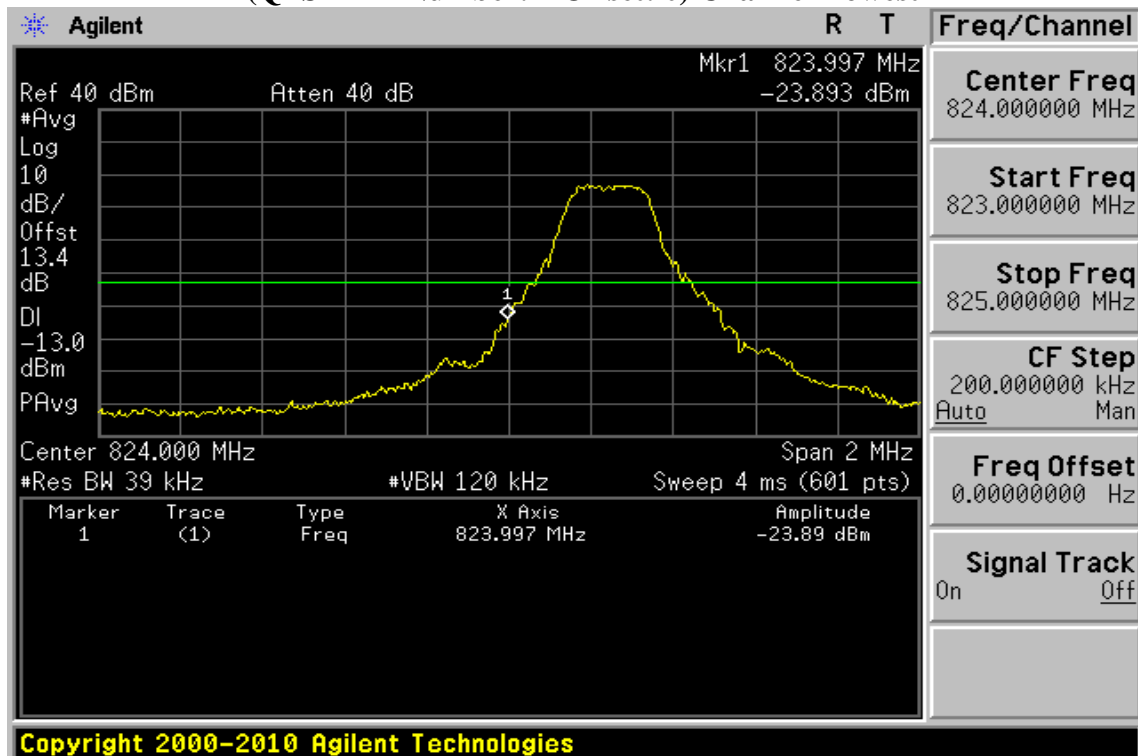
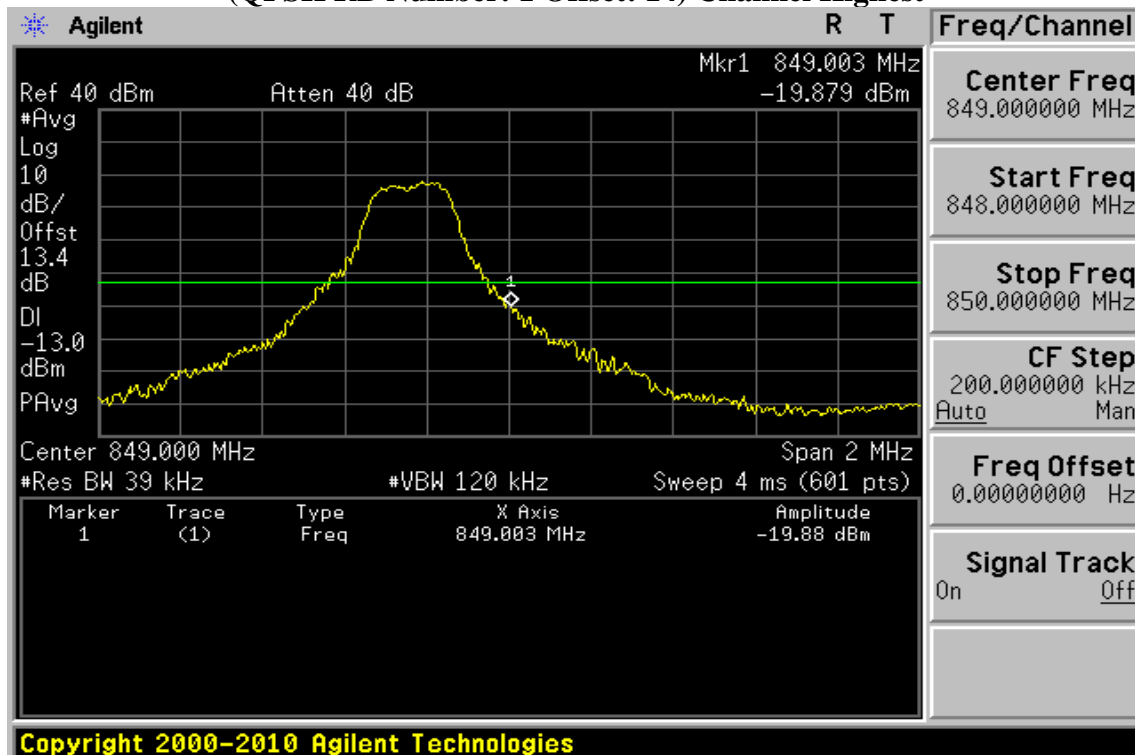


Figure 9-105: Band edge emission at antenna terminals –3MHz BW LTE-Band 26 (QPSK RB Number: 1 Offset: 14) Channel Highest



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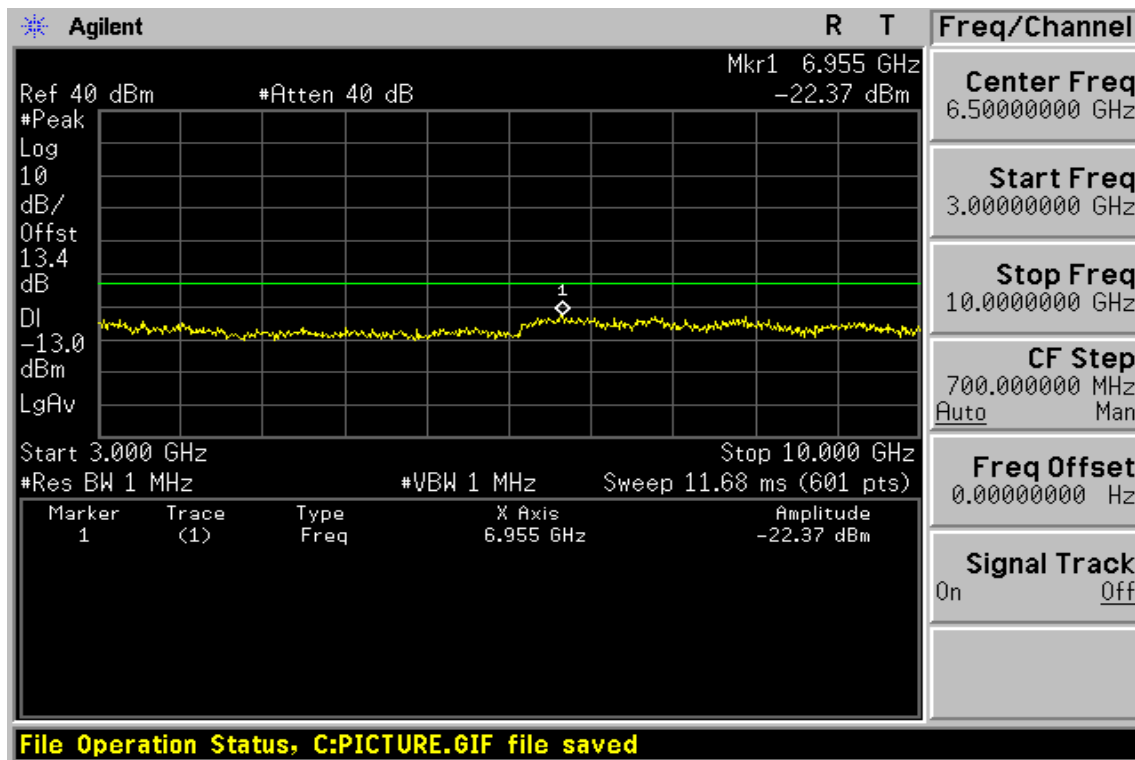
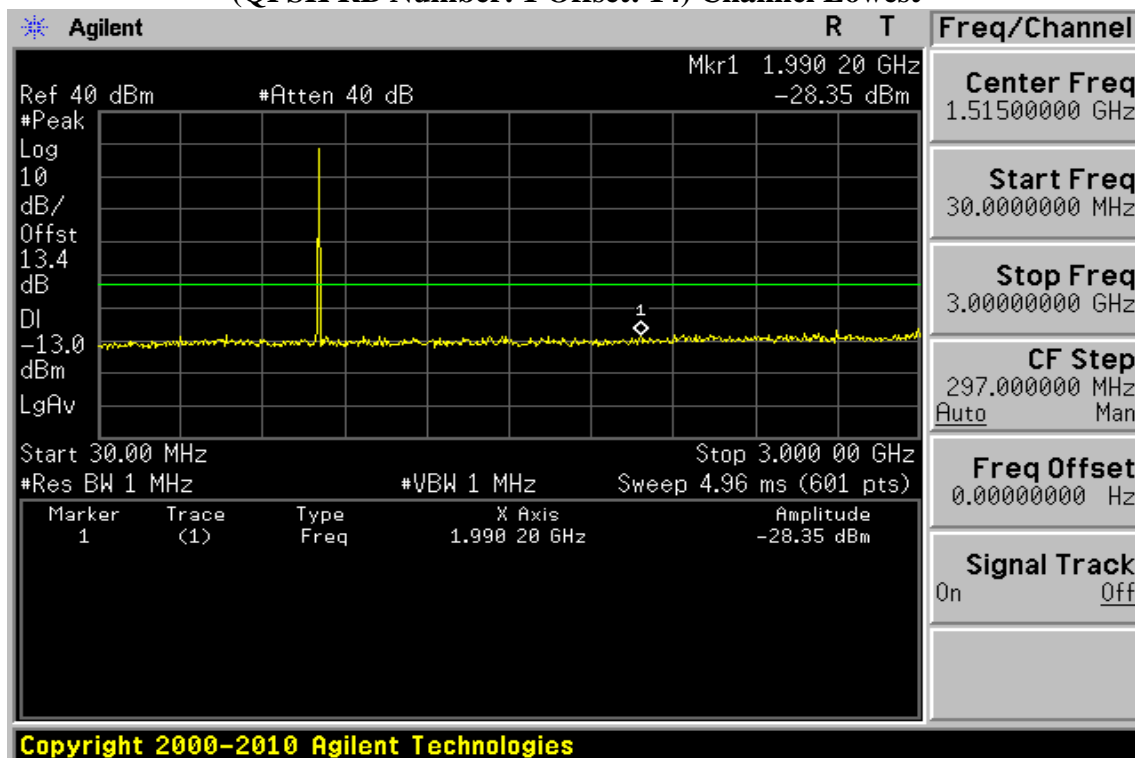
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**Figure 9-106: Out of Band emission at antenna terminals – 3MHz BW LTE-Band 26
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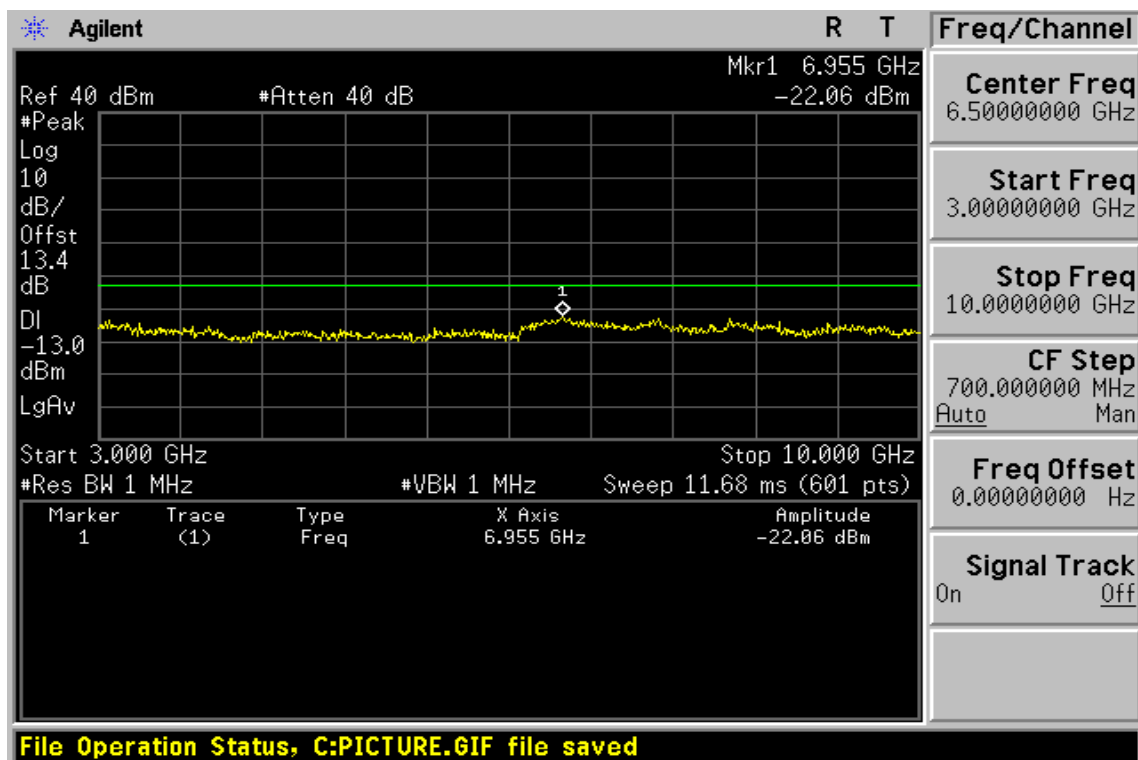
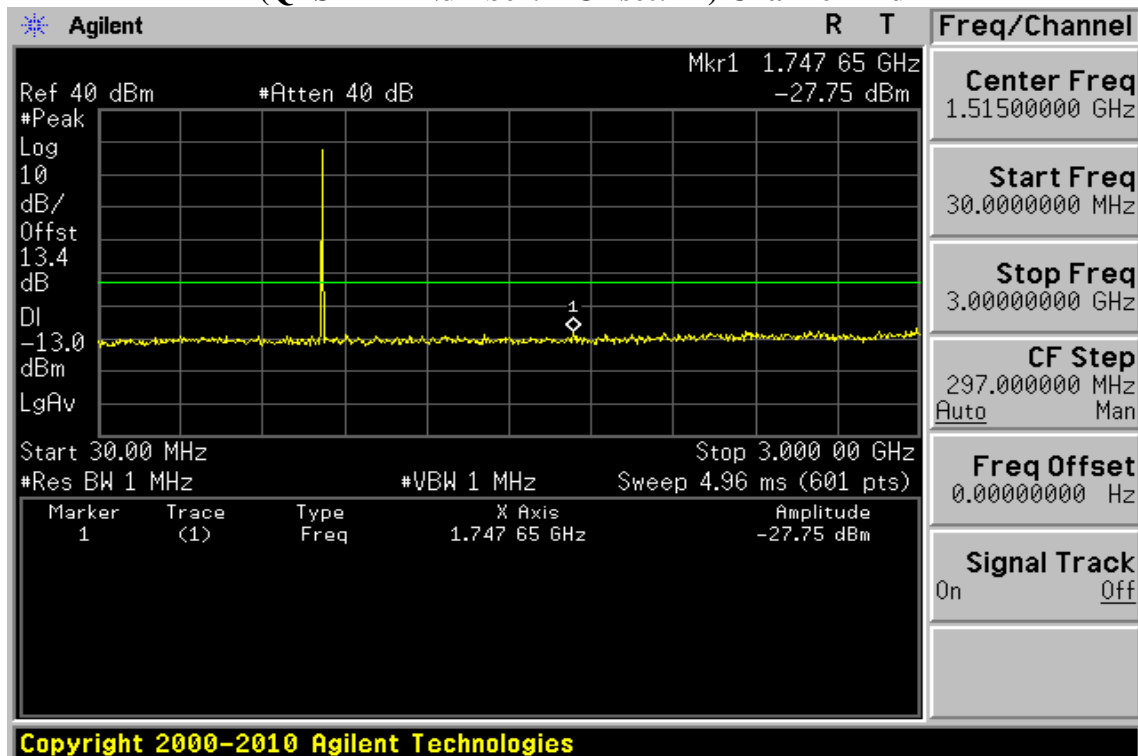
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**Figure 9-107: Out of Band emission at antenna terminals –3MHz BW LTE-Band 26
(QPSK RB Number: 1 Offset: 14) Channel Mid**



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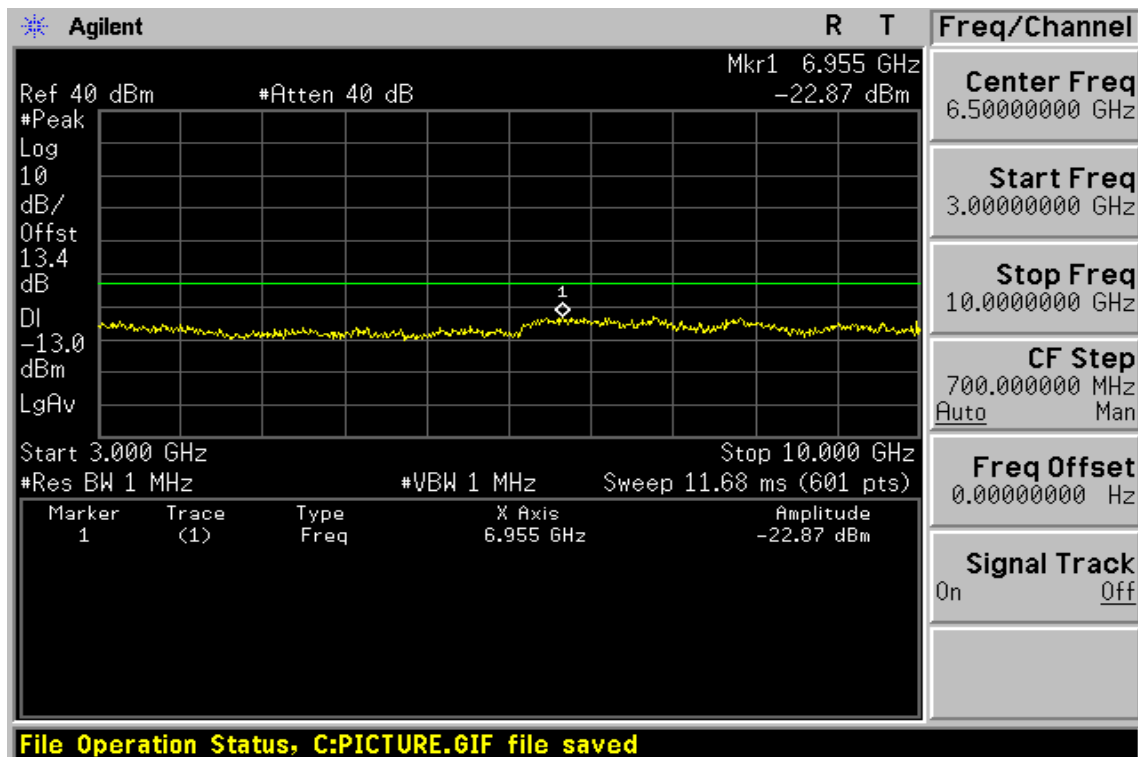
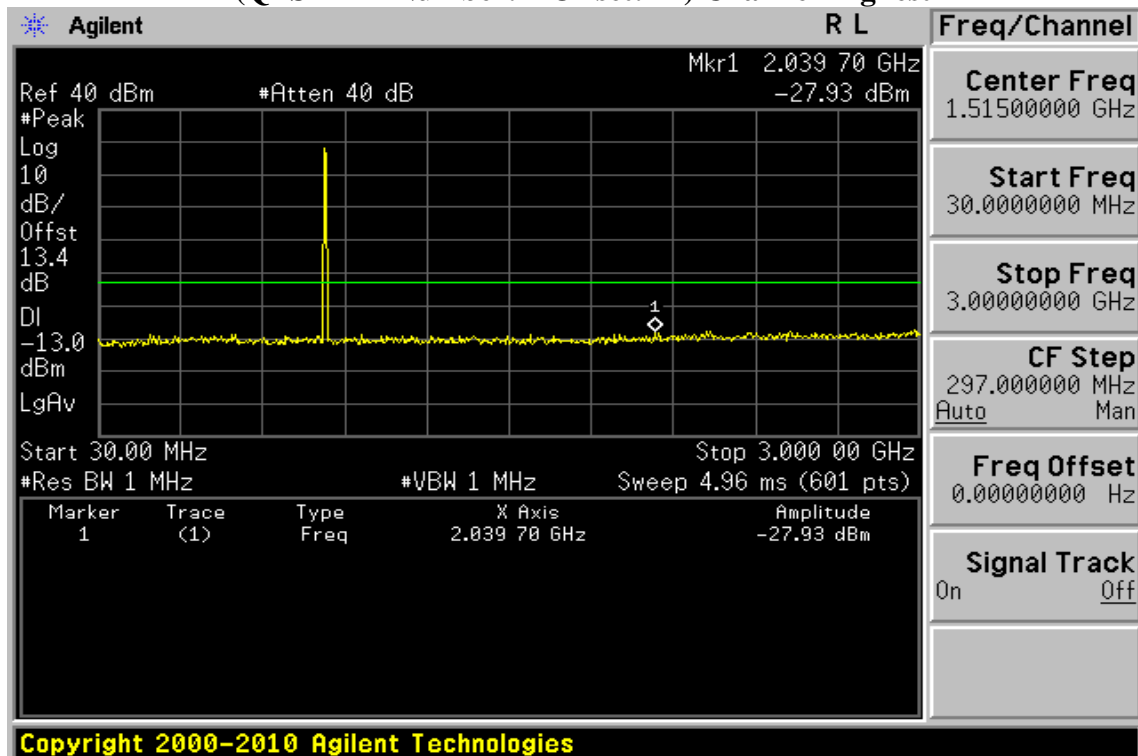
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**Figure 9-108: Out of Band emission at antenna terminals –3MHz BW LTE-Band 26
(QPSK RB Number: 1 Offset: 14) Channel Highest**



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Figure 9-109: Band edge emission at antenna terminals – 3MHz BW LTE-Band 26 (QPSK RB Number: 15 Offset: 0) Channel Lowest

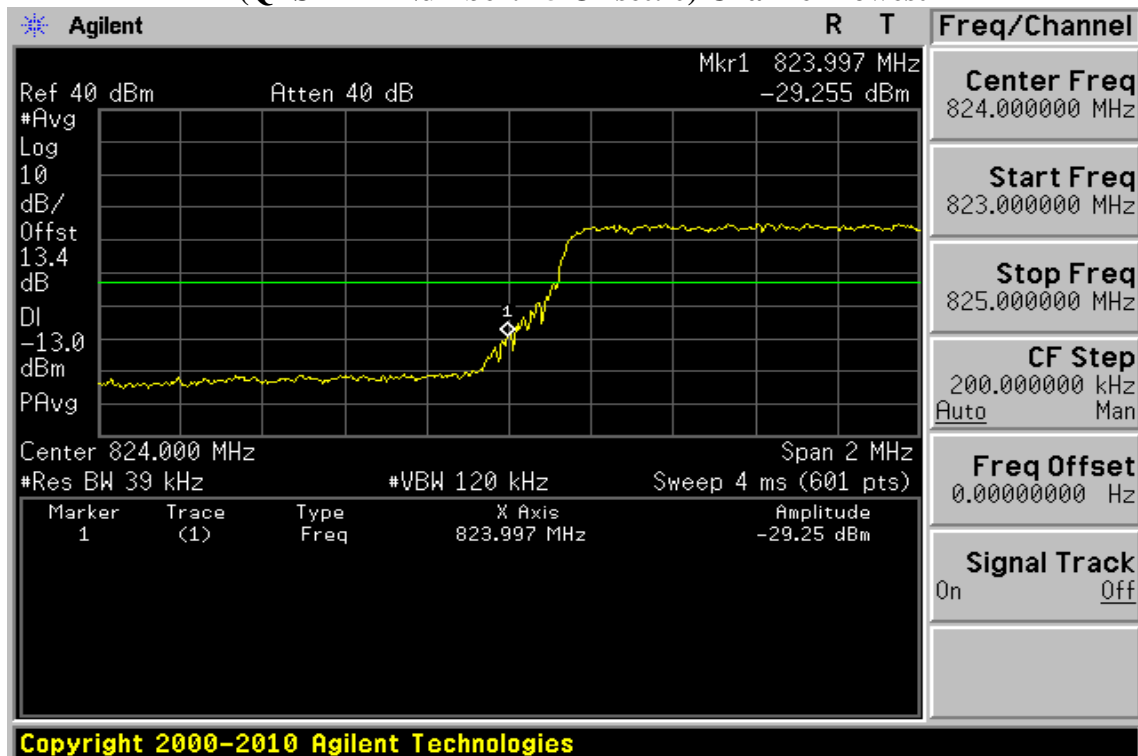
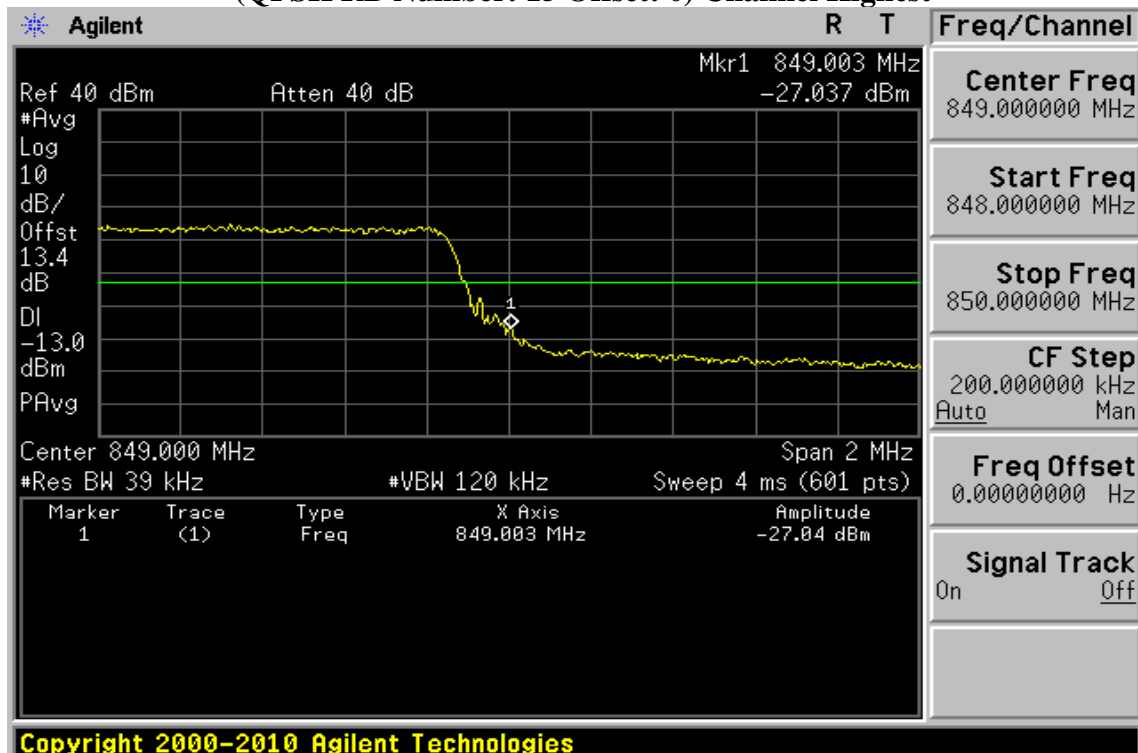


Figure 9-110: Band edge emission at antenna terminals –3MHz BW LTE-Band 26 (QPSK RB Number: 15 Offset: 0) Channel Highest



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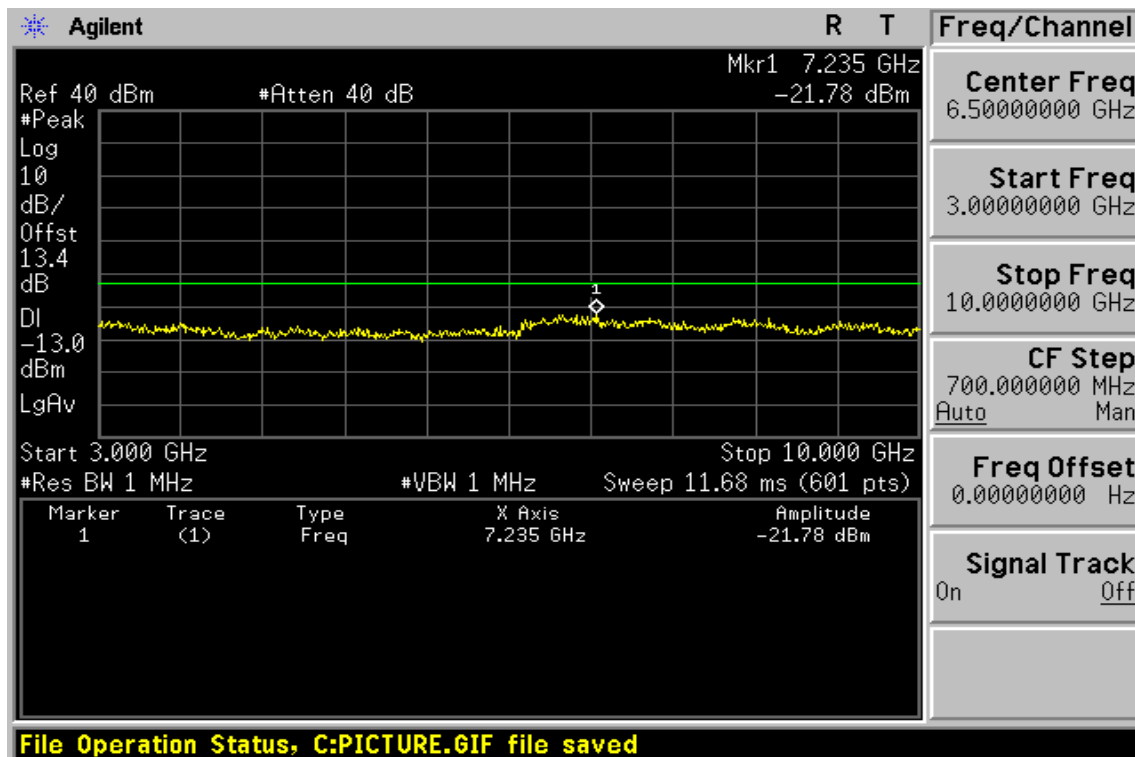
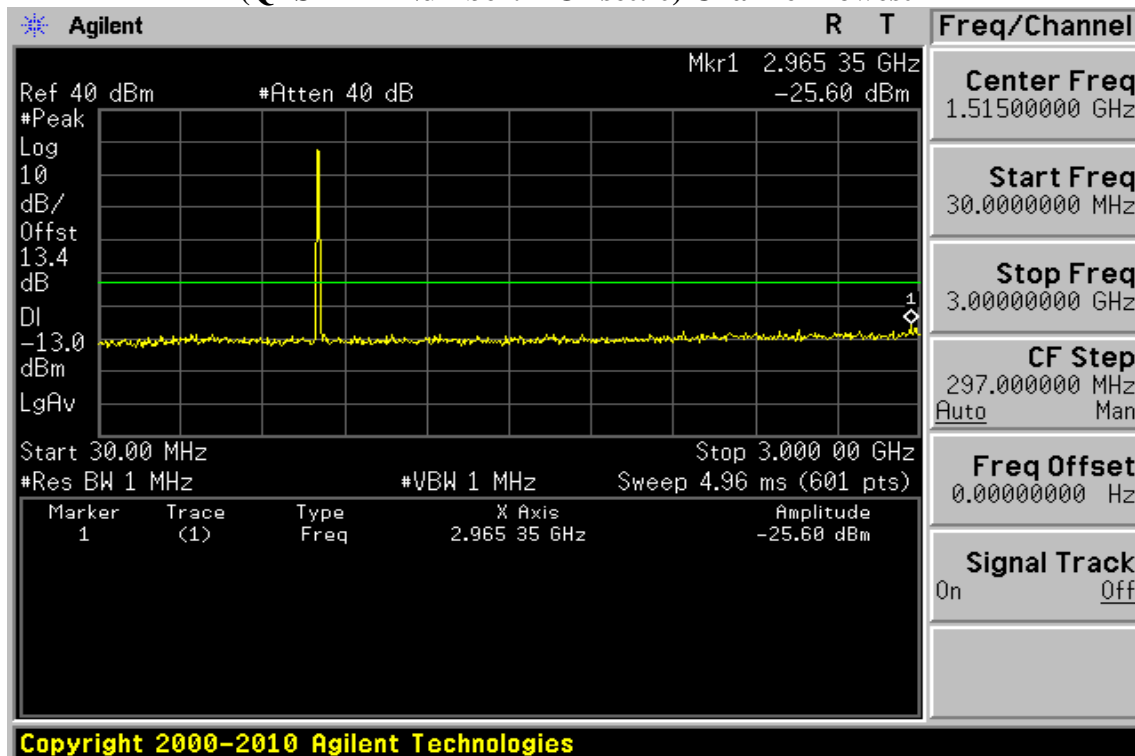
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Figure 9-111: Out of Band emission at antenna terminals – 5MHz BW LTE-Band 26 (QPSK RB Number: 1 Offset: 0) Channel Lowest



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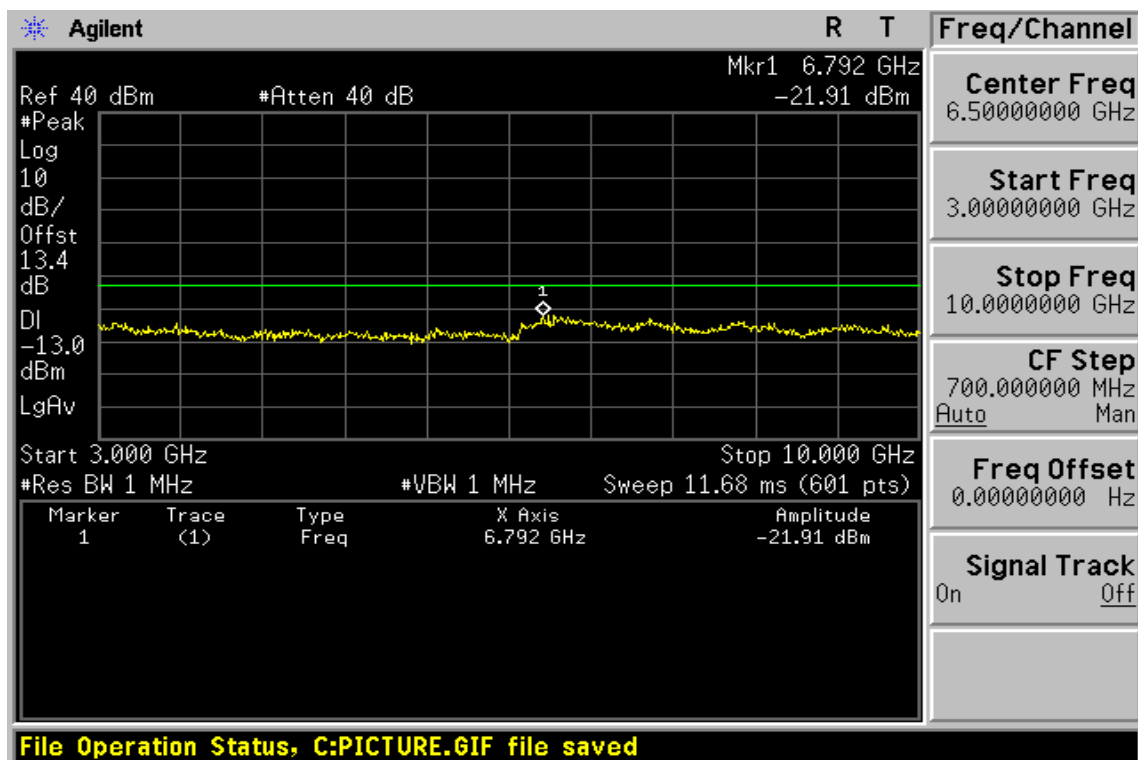
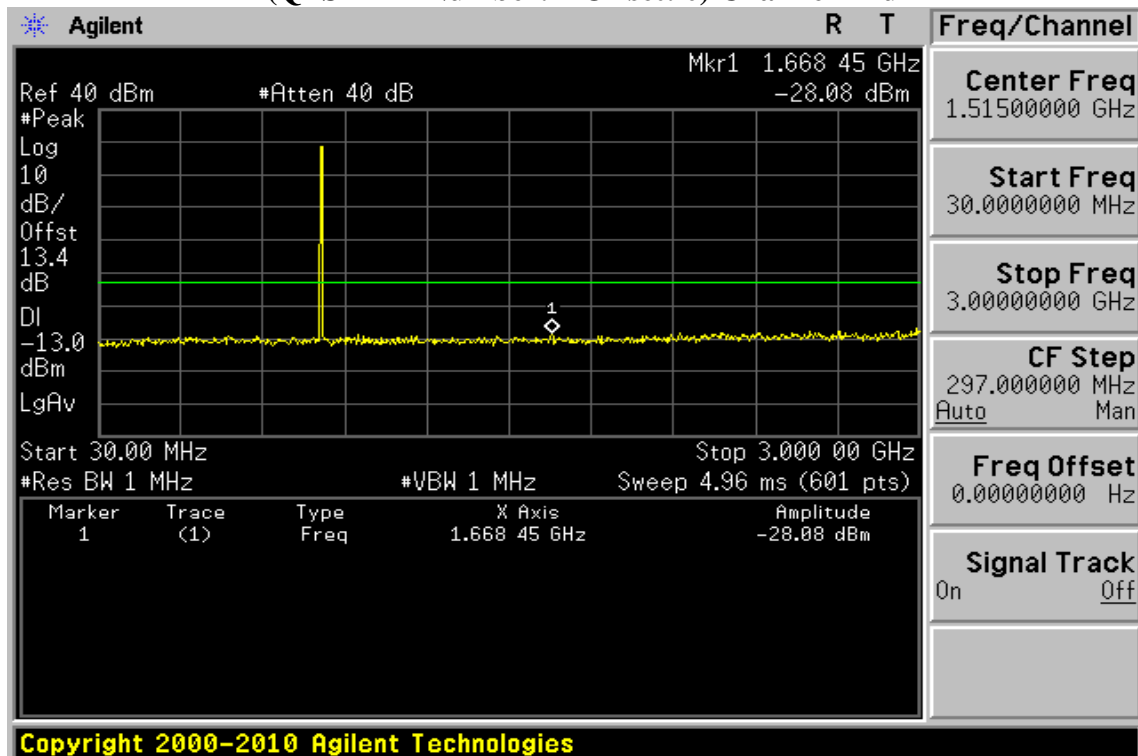
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**Figure 9-112: Out of Band emission at antenna terminals – 5MHz BW LTE-Band 26
(QPSK RB Number: 1 Offset: 0) Channel Mid**



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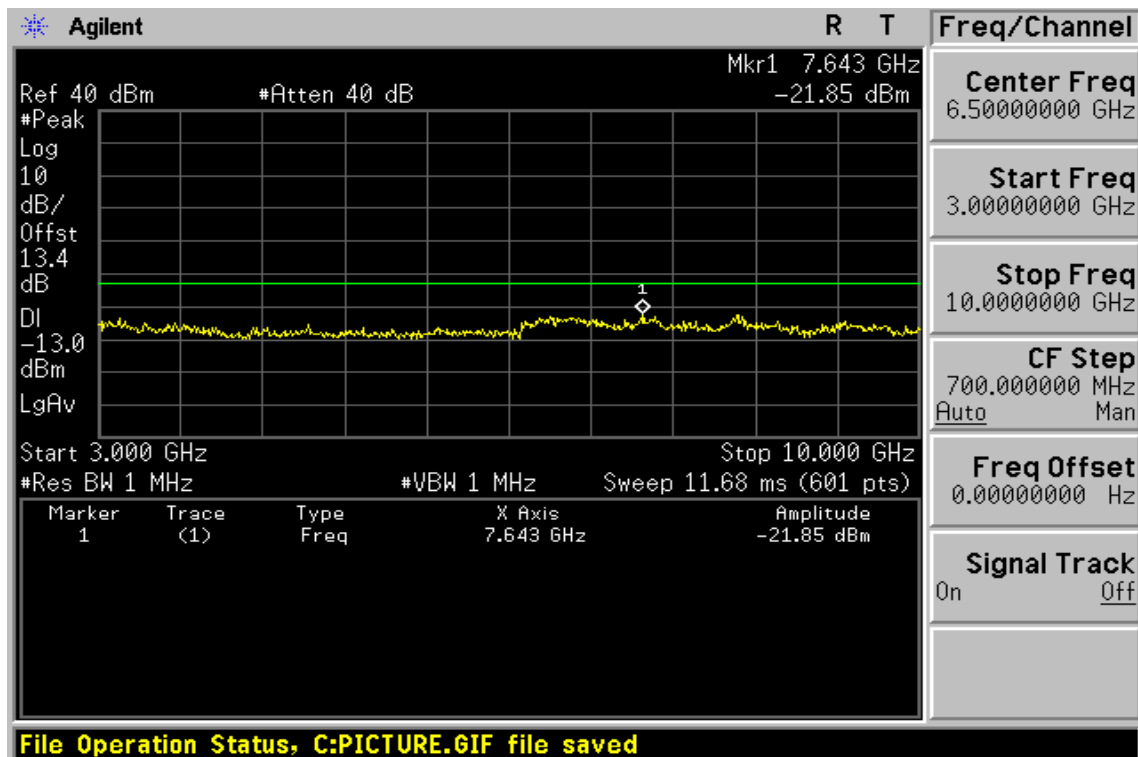
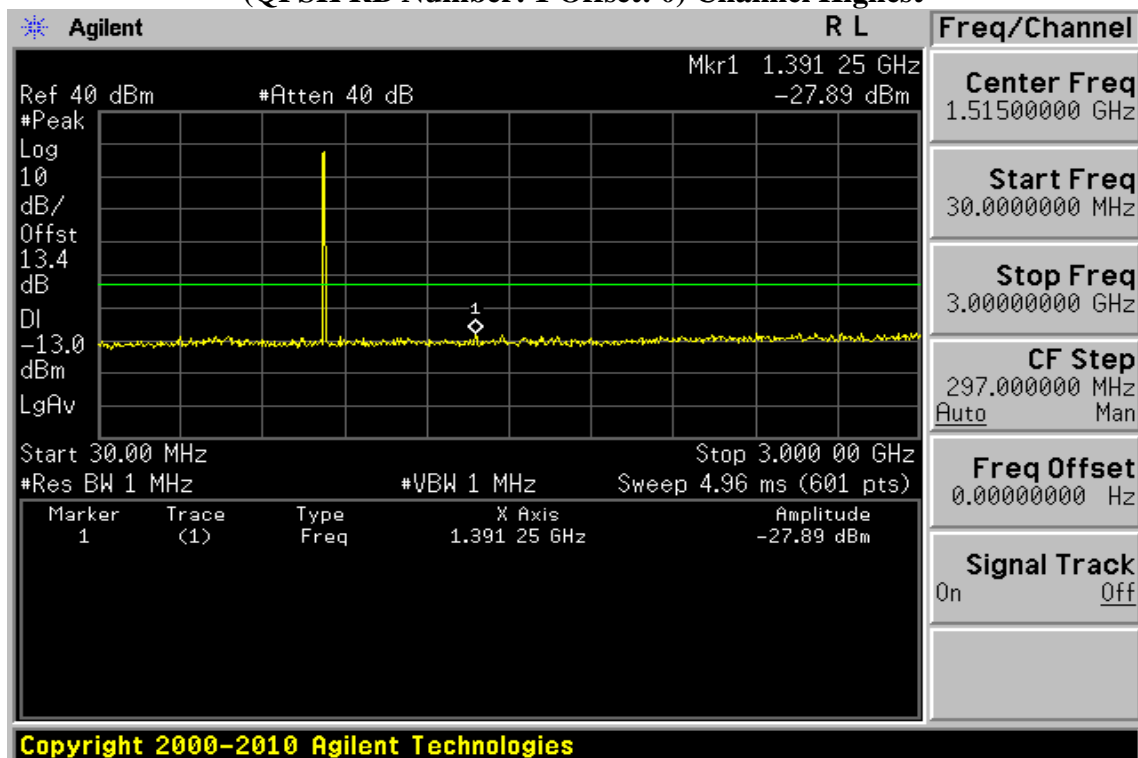
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Figure 9-113: Out of Band emission at antenna terminals –5MHz BW LTE-Band 26 (QPSK RB Number: 1 Offset: 0) Channel Highest



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Figure 9-114: Band edge emission at antenna terminals – 5MHz BW LTE-Band 26 (QPSK RB Number: 1 Offset: 0) Channel Lowest

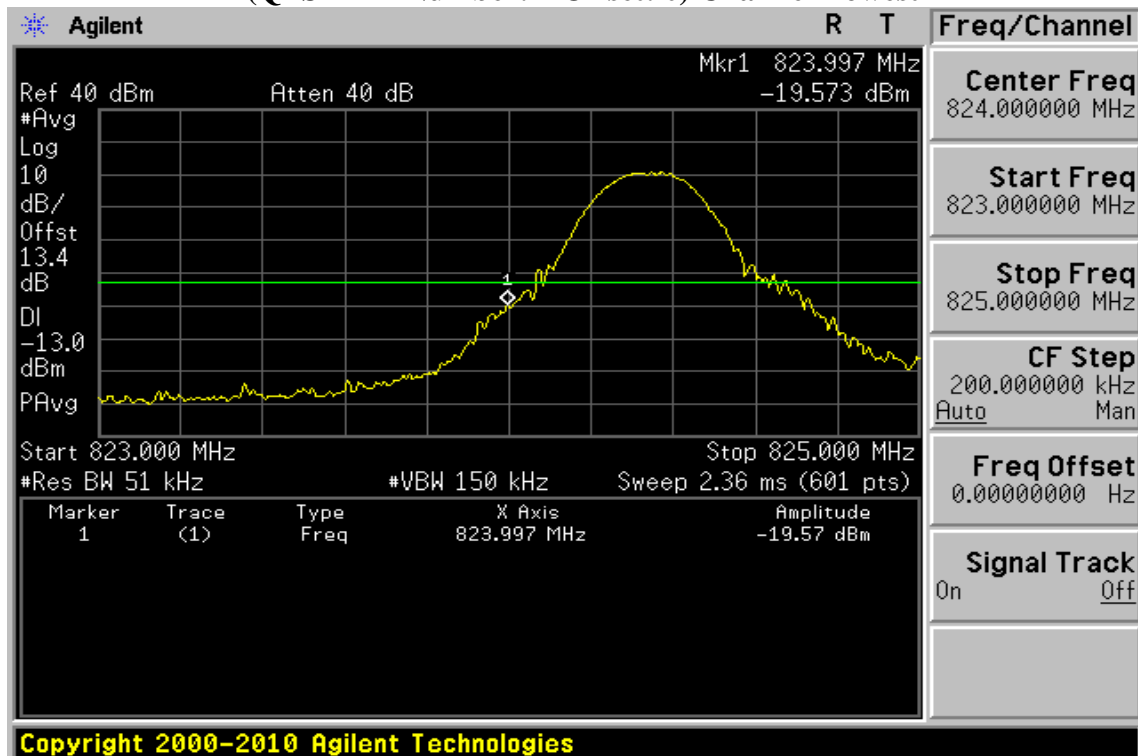
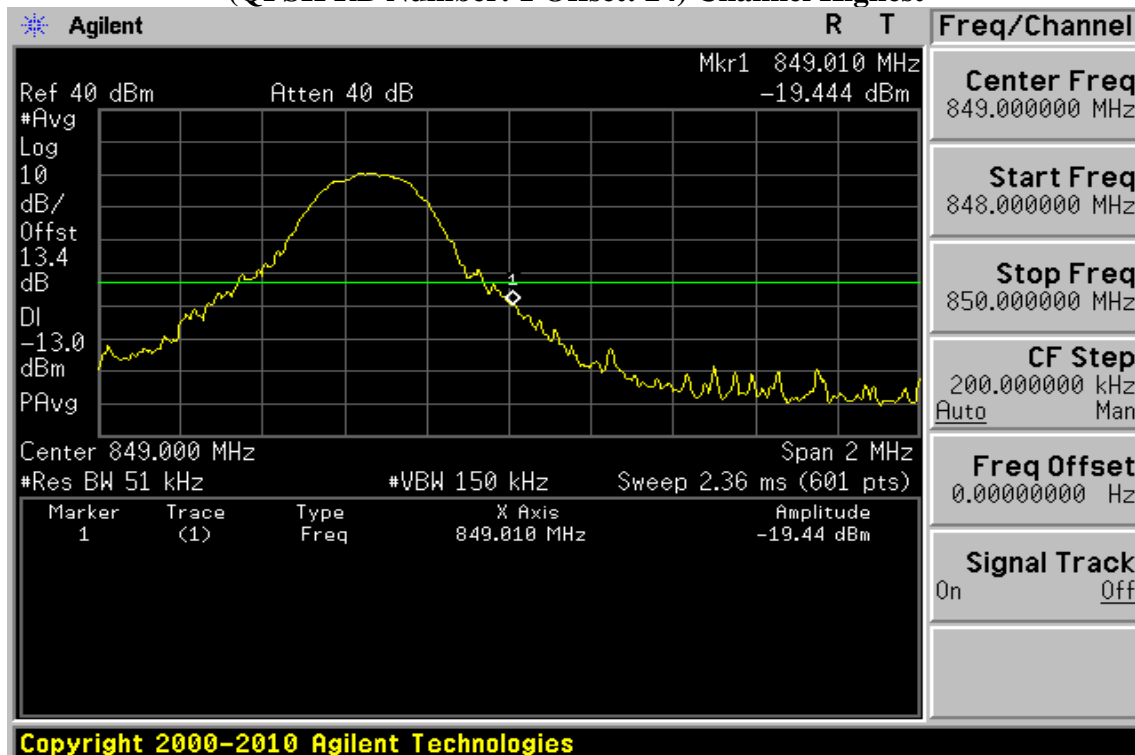


Figure 9-115: Band edge emission at antenna terminals –5MHz BW LTE-Band 26 (QPSK RB Number: 1 Offset: 24) Channel Highest



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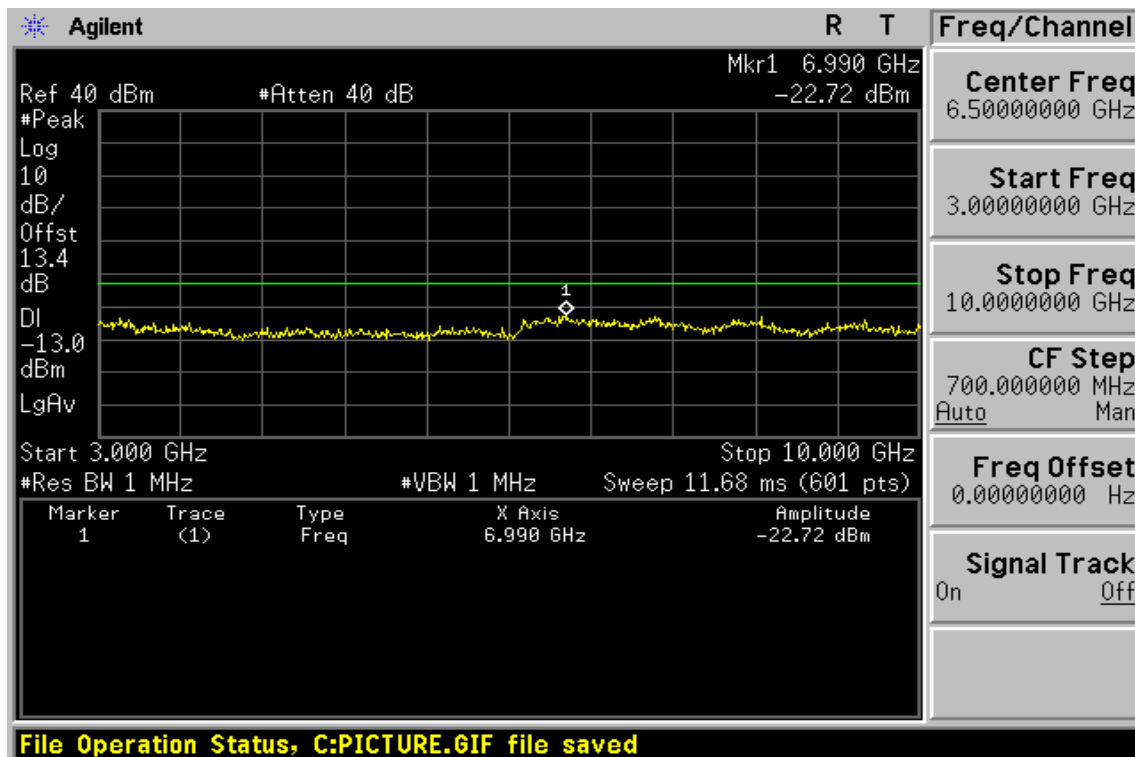
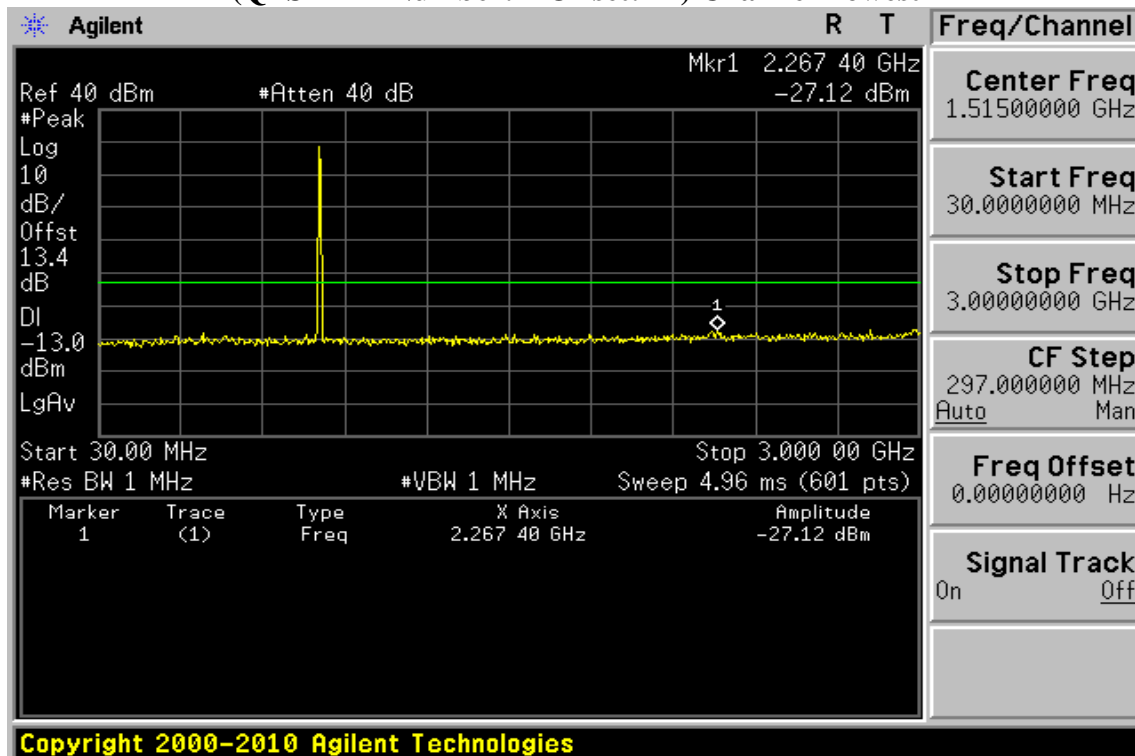
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**Figure 9-116: Out of Band emission at antenna terminals – 5MHz BW LTE-Band 26
(QPSK RB Number: 1 Offset: 24) Channel Lowest**



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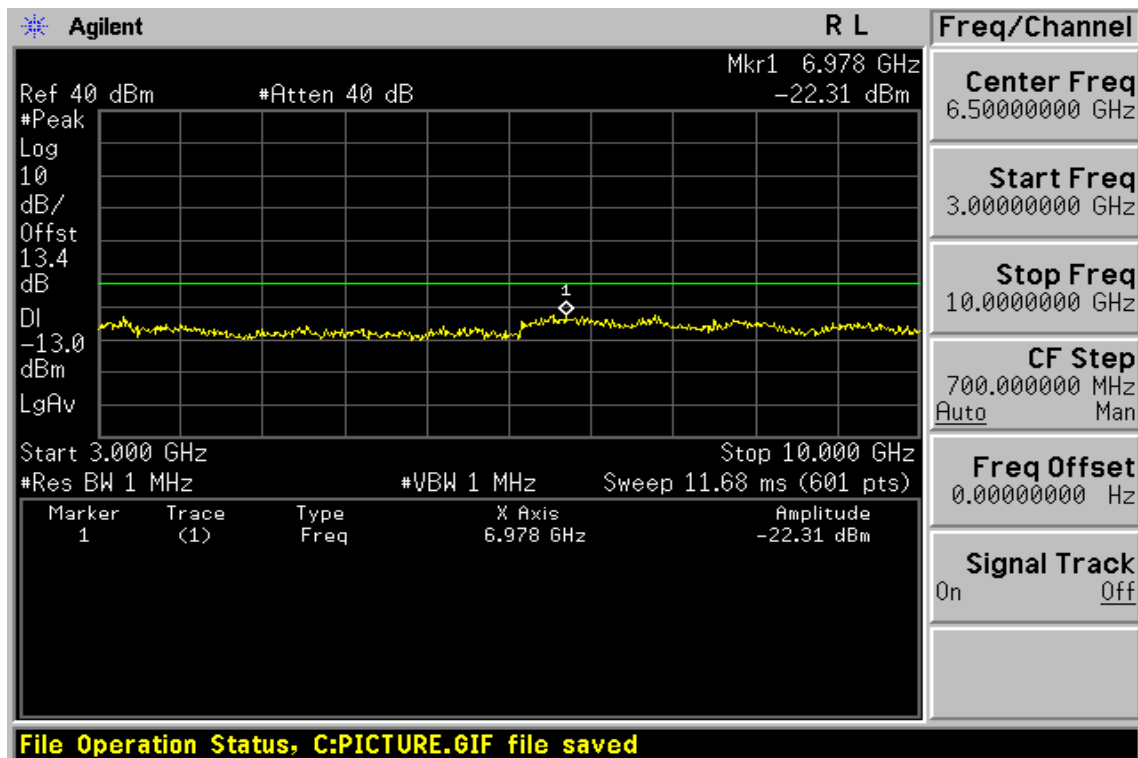
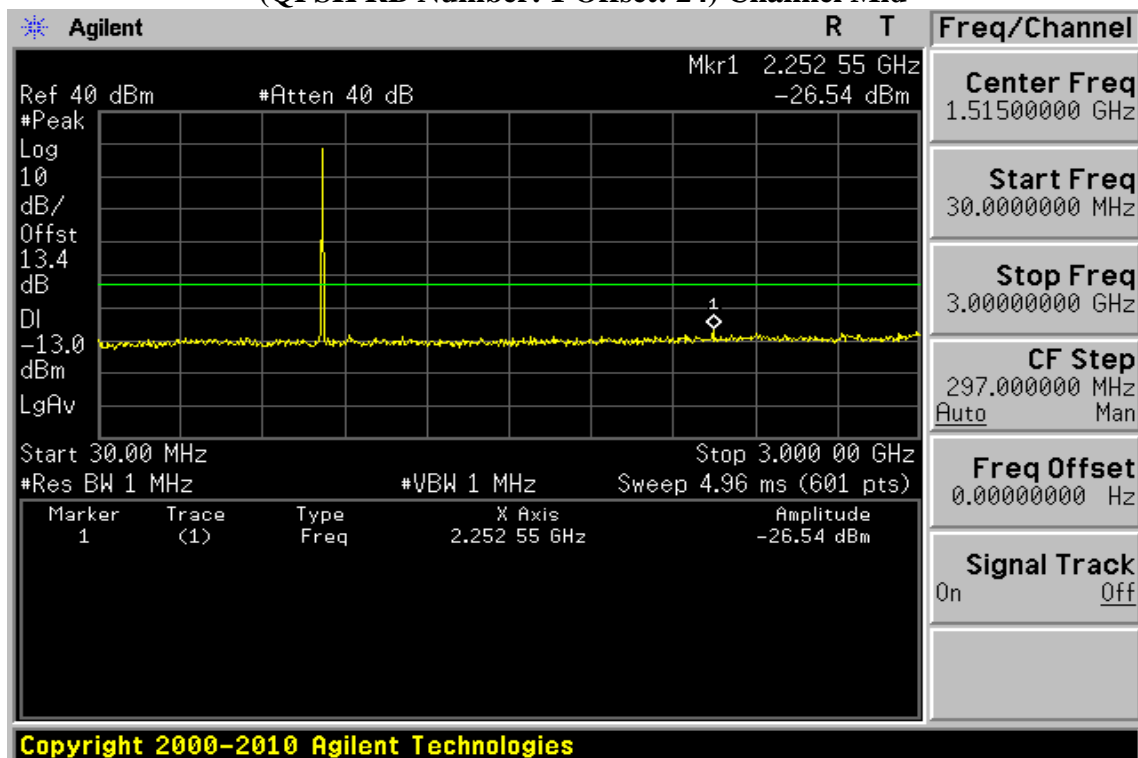
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Figure 9-117: Out of Band emission at antenna terminals – 5MHz BW LTE-Band 26 (QPSK RB Number: 1 Offset: 24) Channel Mid



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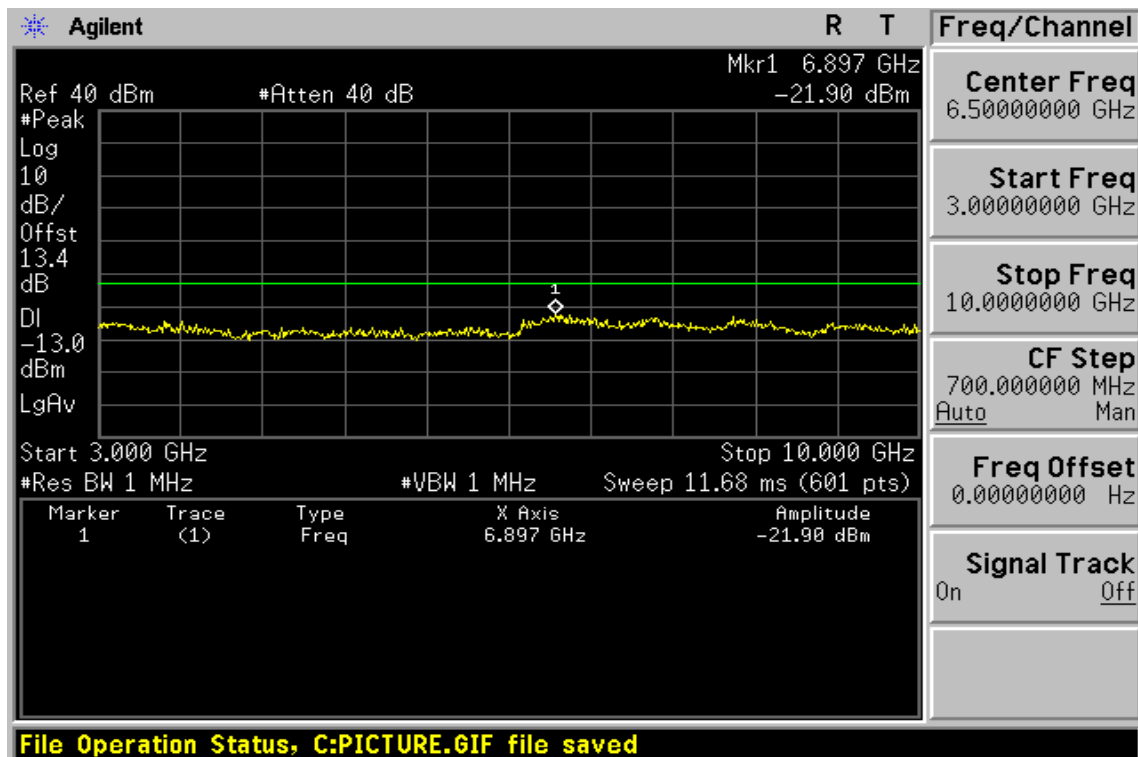
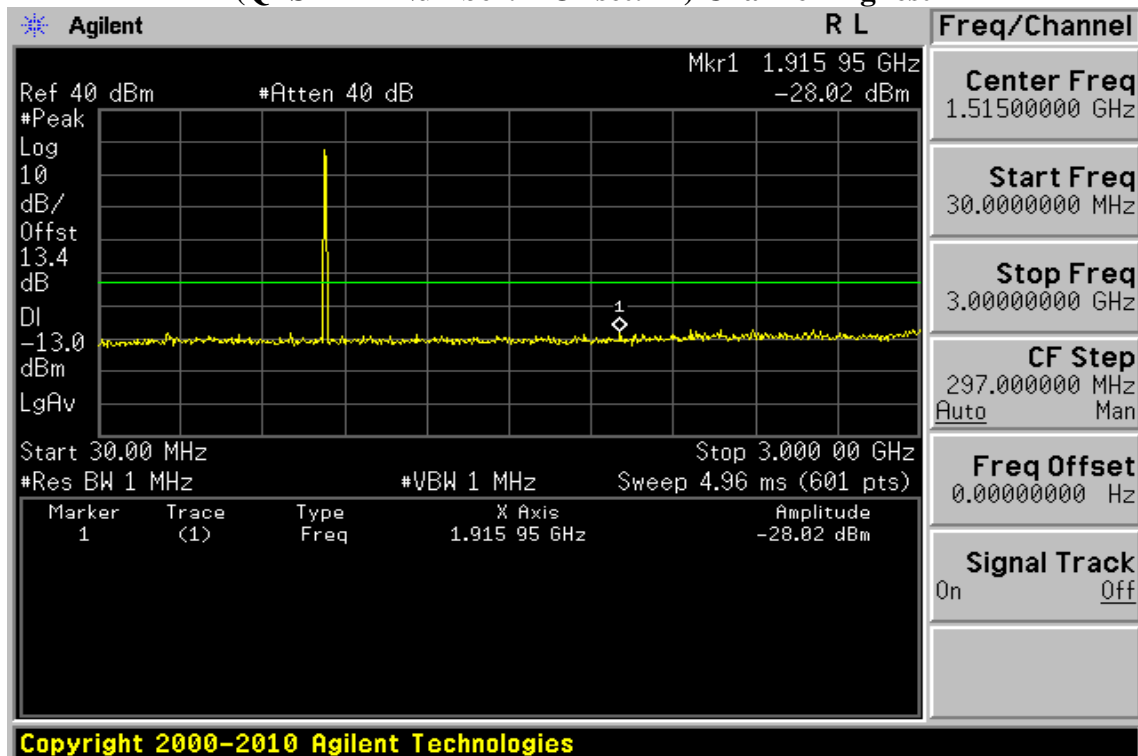
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Figure 9-118: Out of Band emission at antenna terminals –5MHz BW LTE-Band 26 (QPSK RB Number: 1 Offset: 24) Channel Highest



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Figure 9-119: Band edge emission at antenna terminals – 5MHz BW LTE-Band 26 (QPSK RB Number: 25 Offset: 0) Channel Lowest

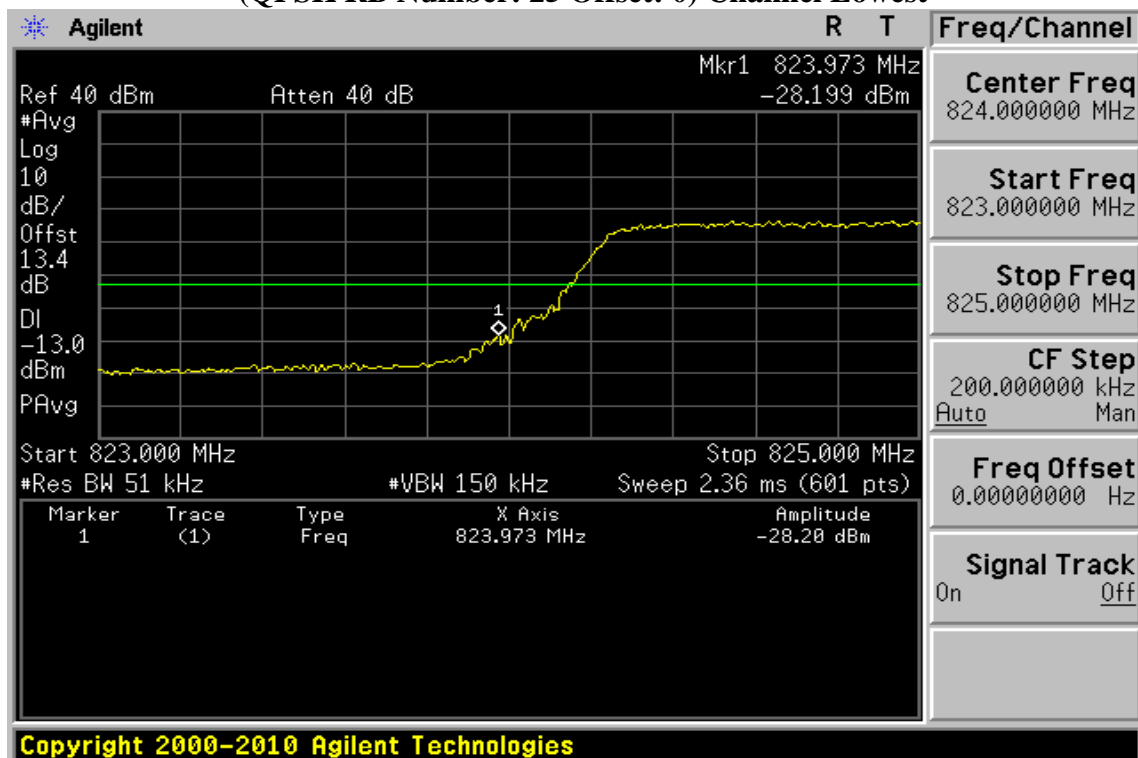
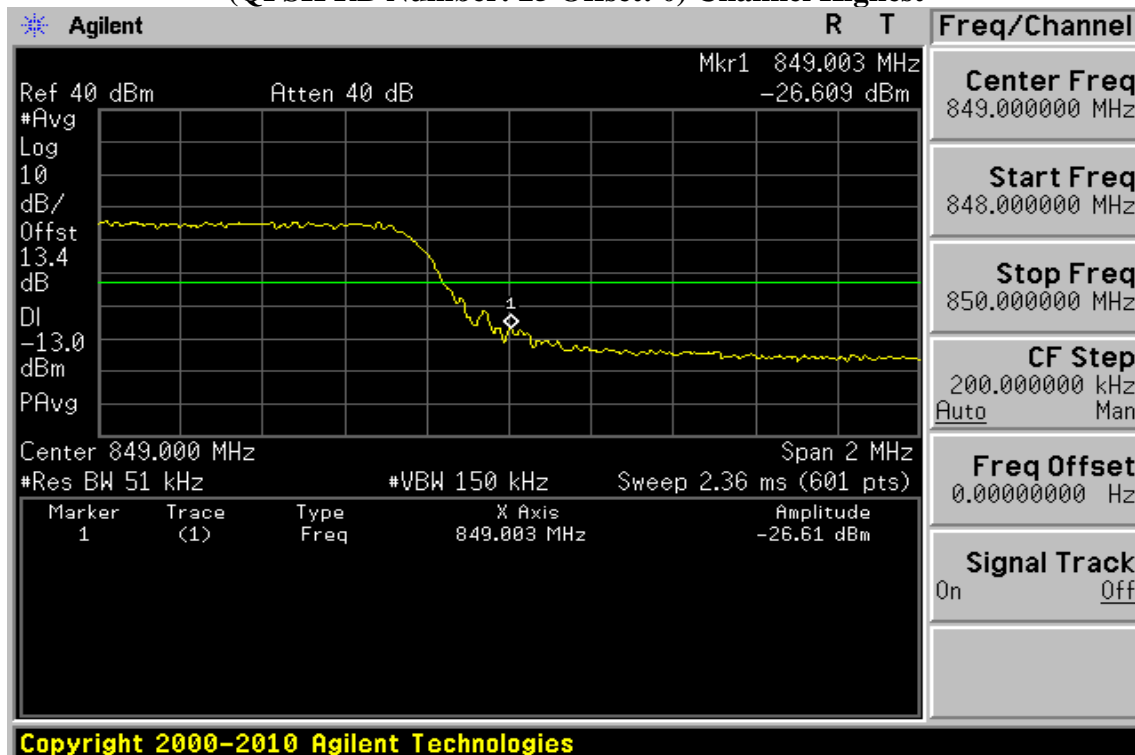


Figure 9-120: Band edge emission at antenna terminals –5MHz BW LTE-Band 26 (QPSK RB Number: 25 Offset: 0) Channel Highest



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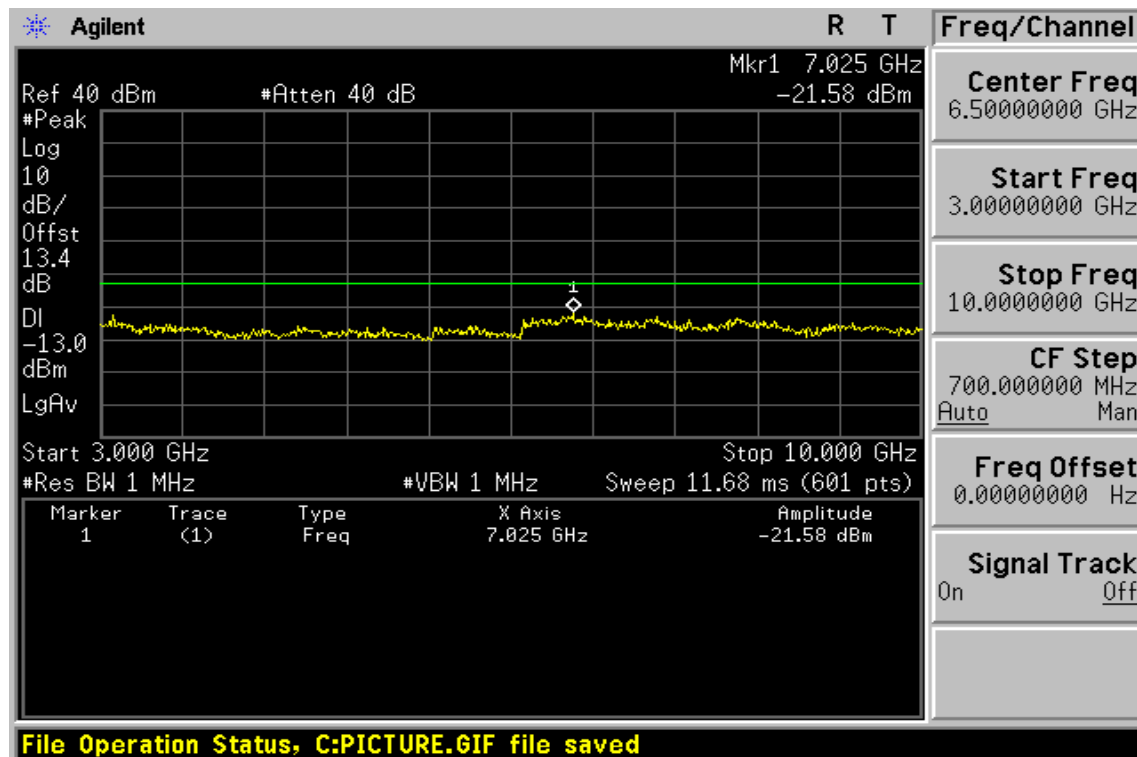
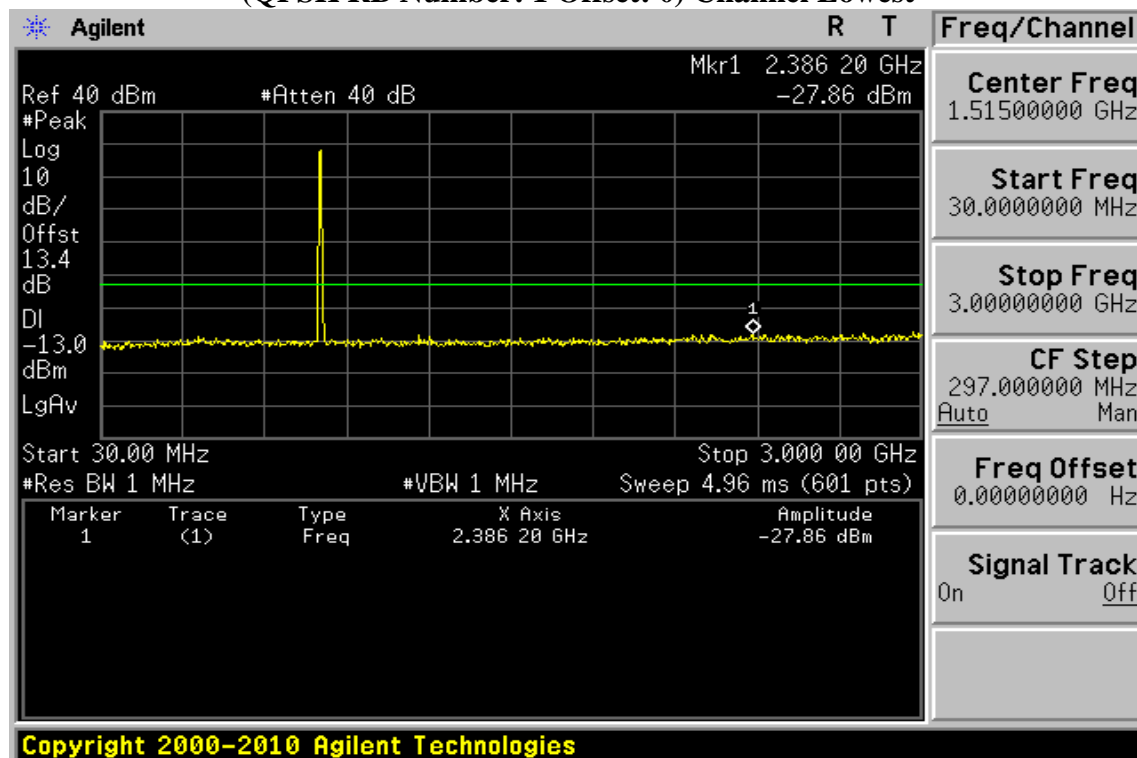
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Figure 9-121: Out of Band emission at antenna terminals – 10MHz BW LTE-Band 26 (QPSK RB Number: 1 Offset: 0) Channel Lowest



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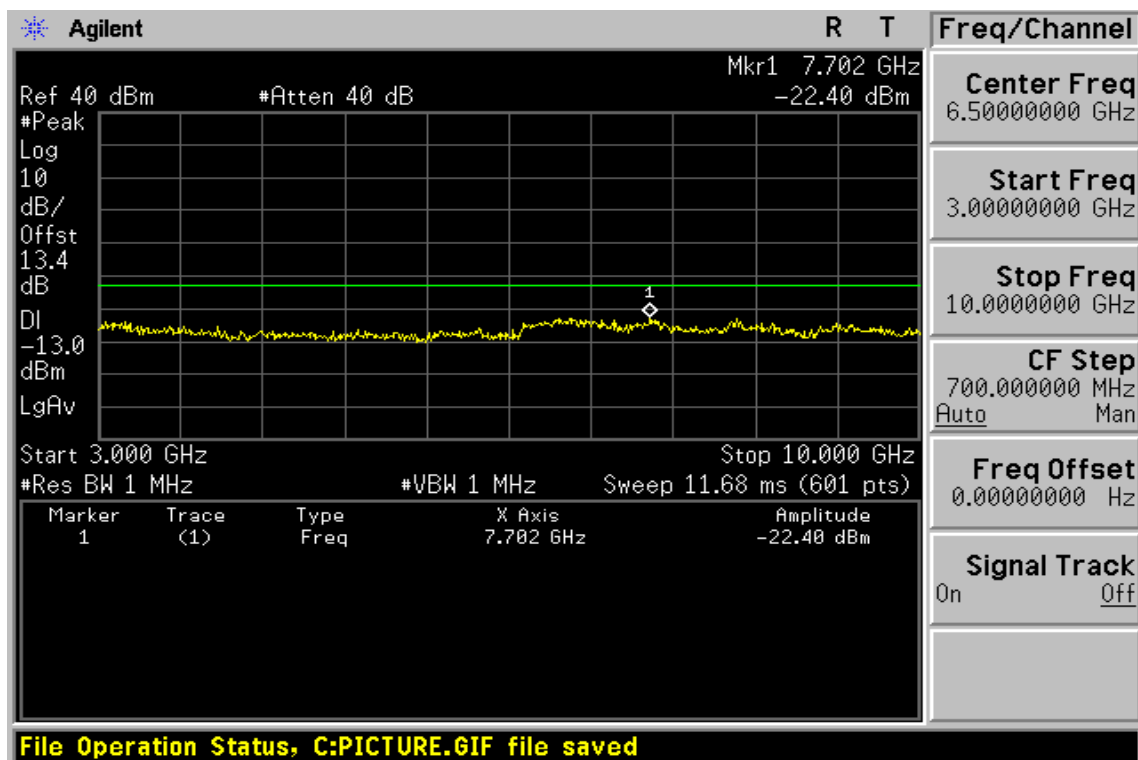
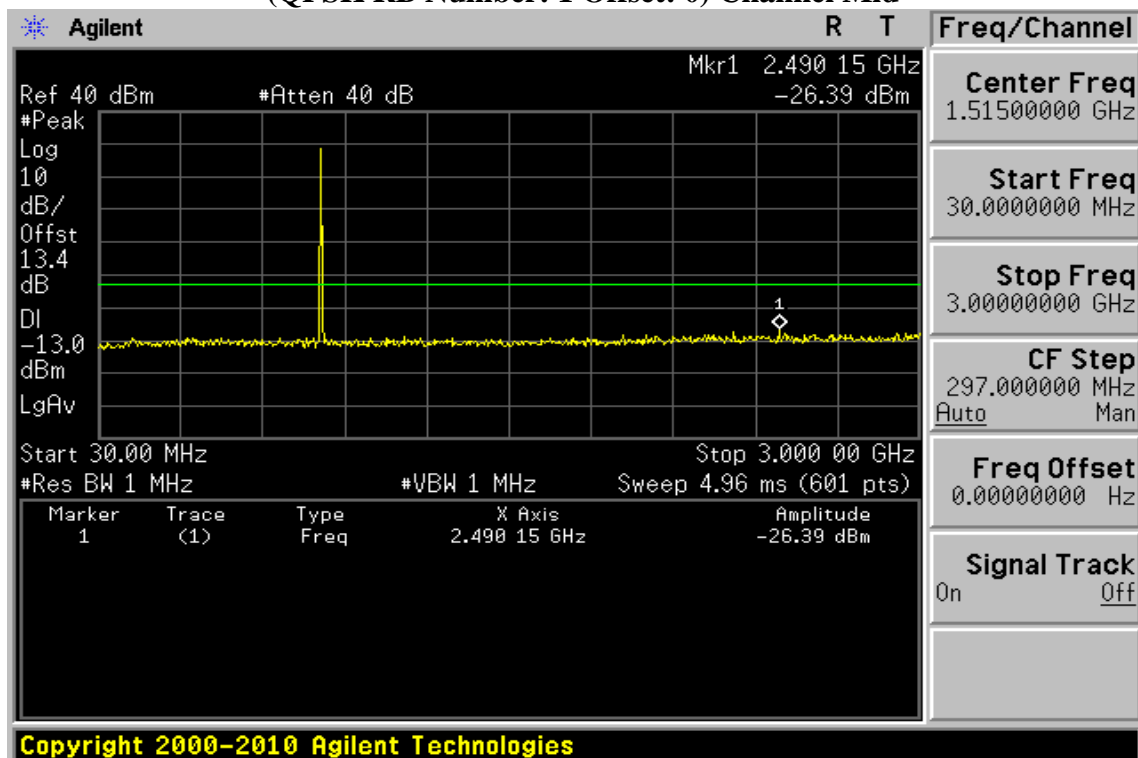
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**Figure 9-122: Out of Band emission at antenna terminals –10MHz BW LTE-Band 26
(QPSK RB Number: 1 Offset: 0) Channel Mid**



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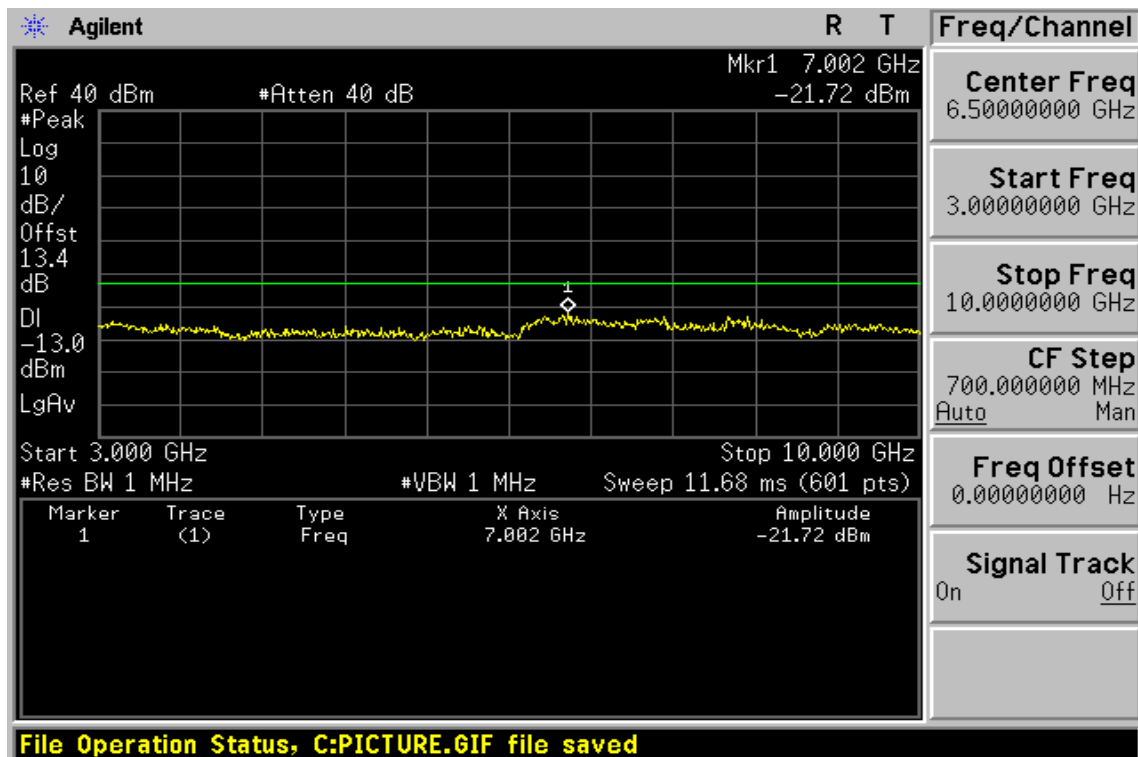
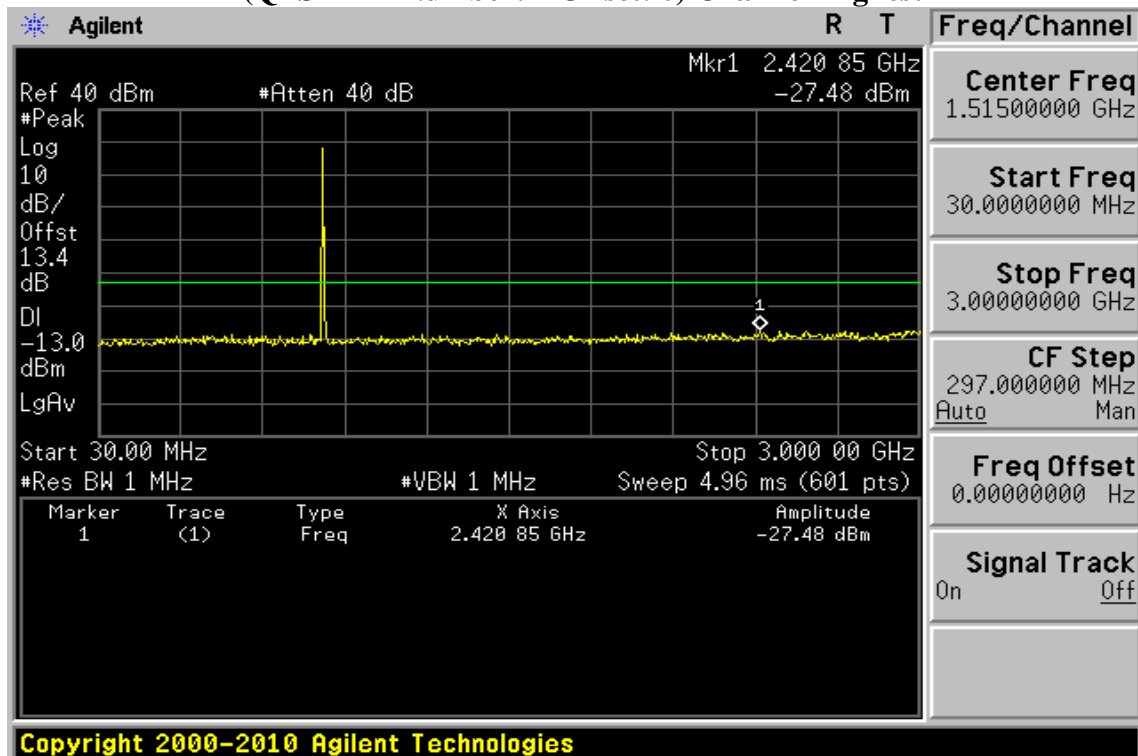
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Figure 9-123: Out of Band emission at antenna terminals –10MHz BW LTE-Band 26 (QPSK RB Number: 1 Offset: 0) Channel Highest



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Figure 9-124: Band edge emission at antenna terminals – 10MHz BW LTE-Band 26 (QPSK RB Number: 1 Offset: 0) Channel Lowest

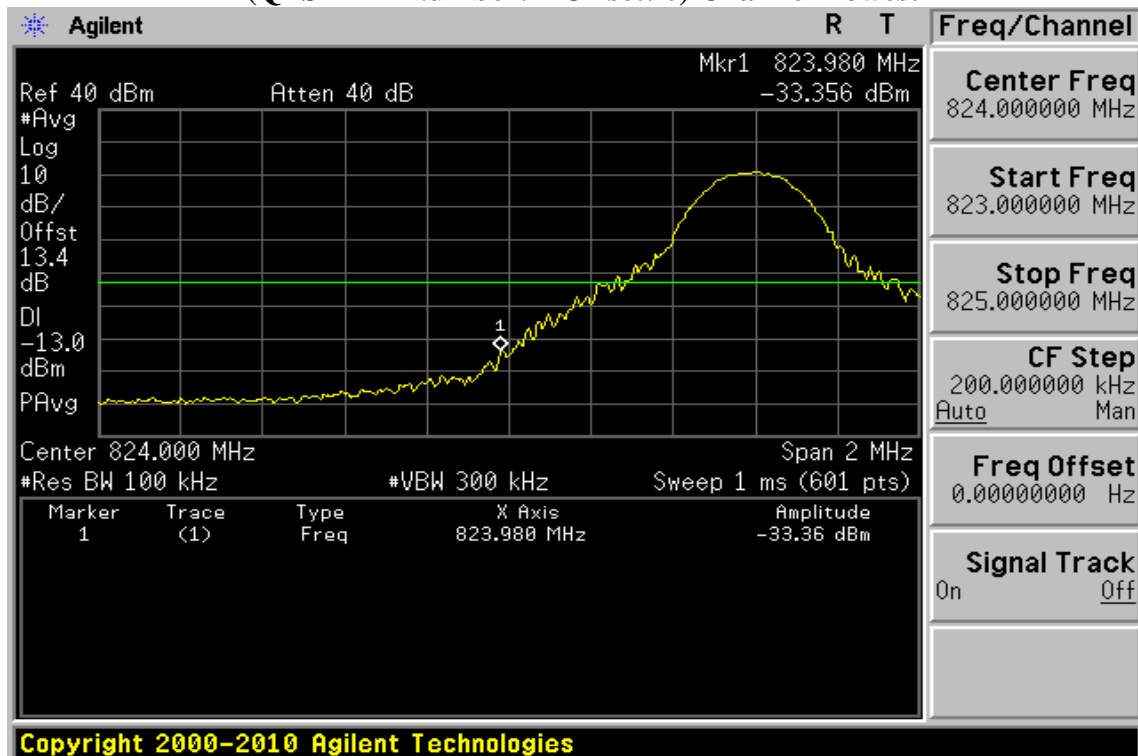
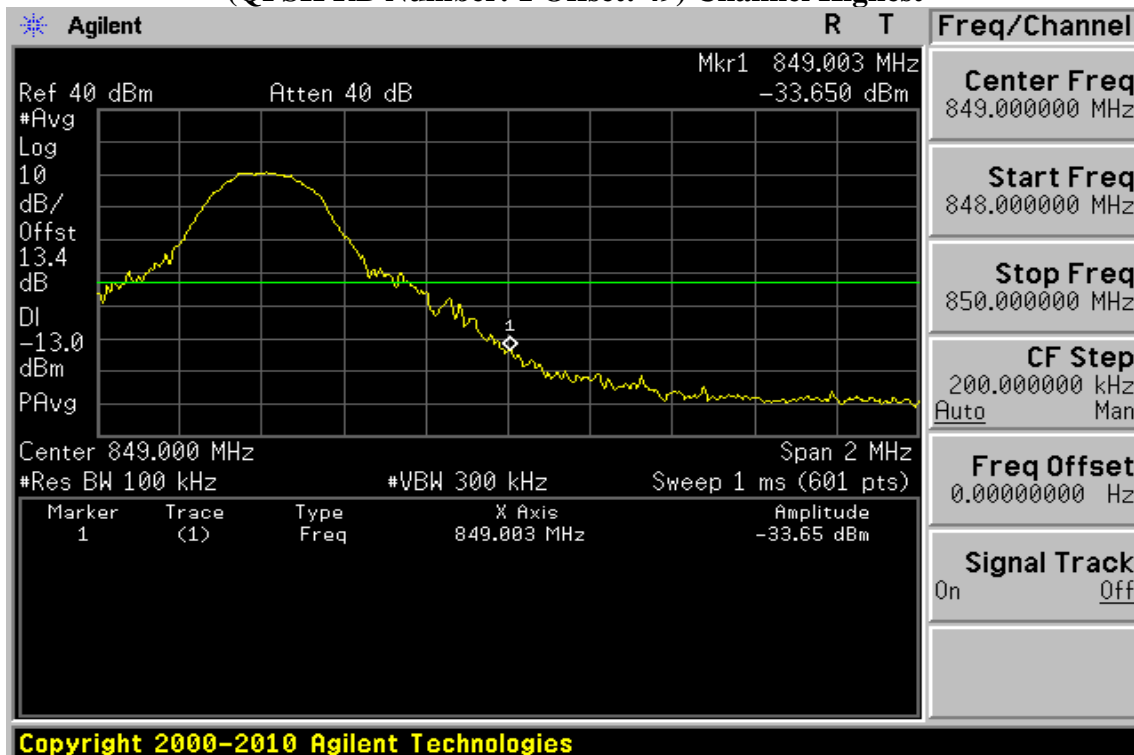


Figure 9-125: Band edge emission at antenna terminals –10MHz BW LTE-Band 26 (QPSK RB Number: 1 Offset: 49) Channel Highest



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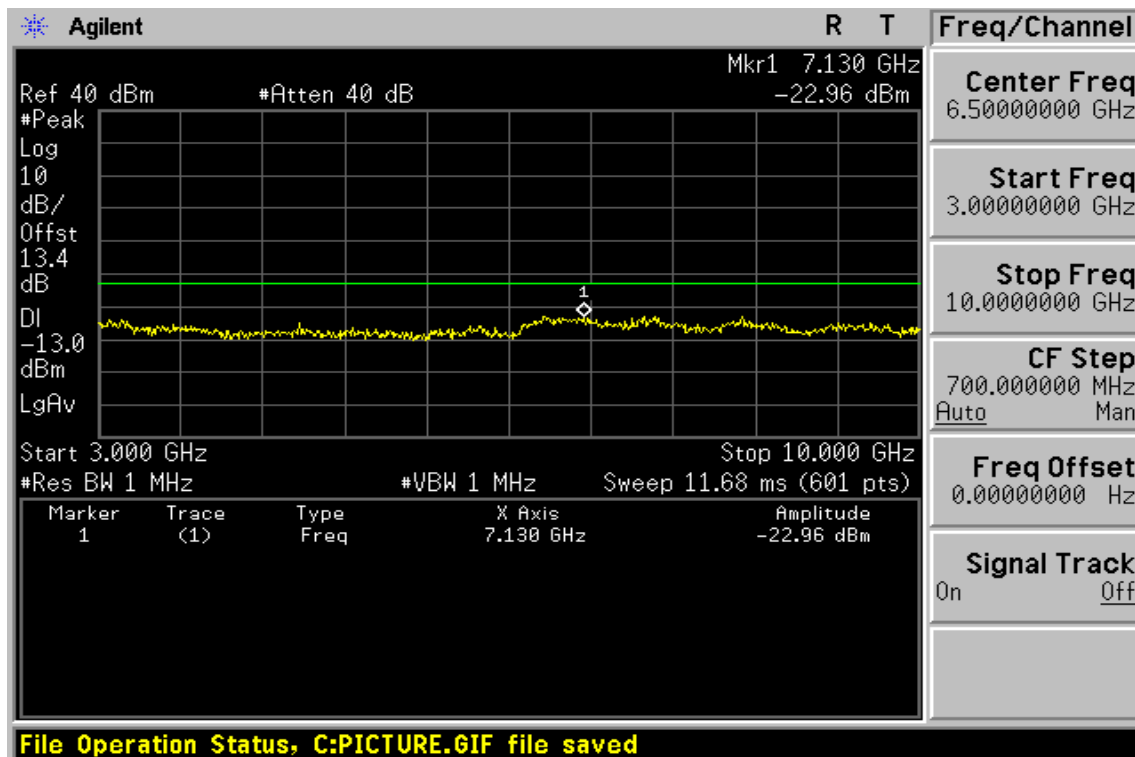
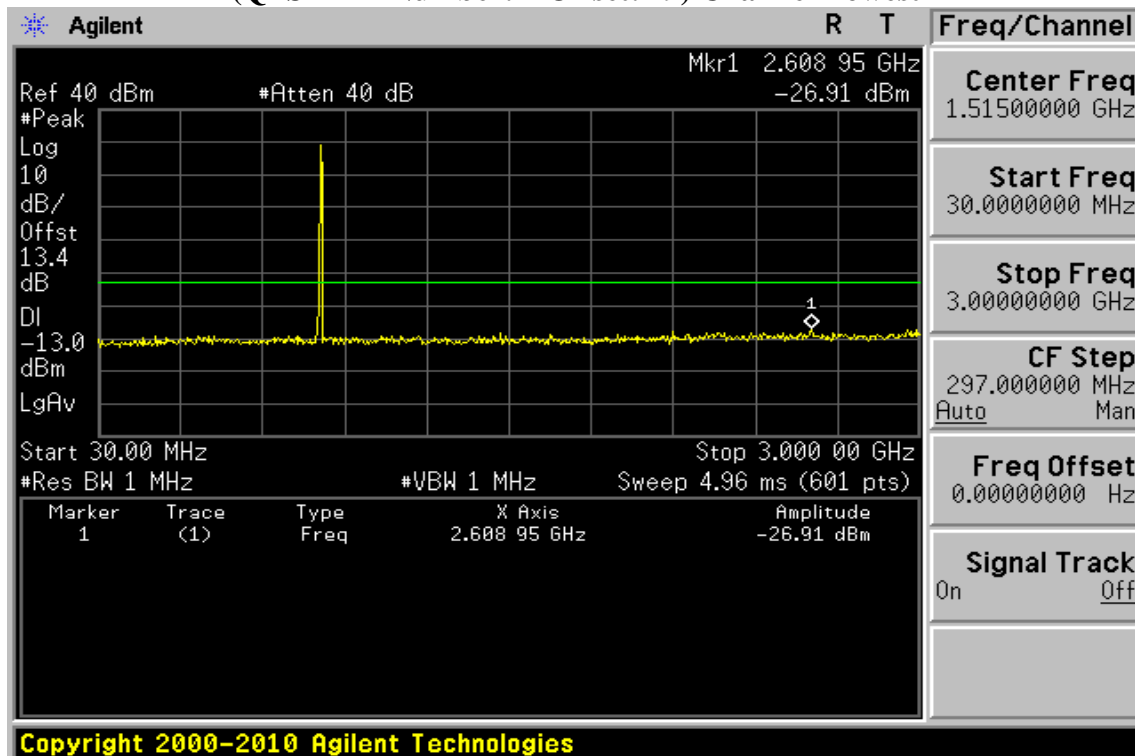
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**Figure 9-126: Out of Band emission at antenna terminals – 10MHz BW LTE-Band 26
(QPSK RB Number: 1 Offset: 49) Channel Lowest**



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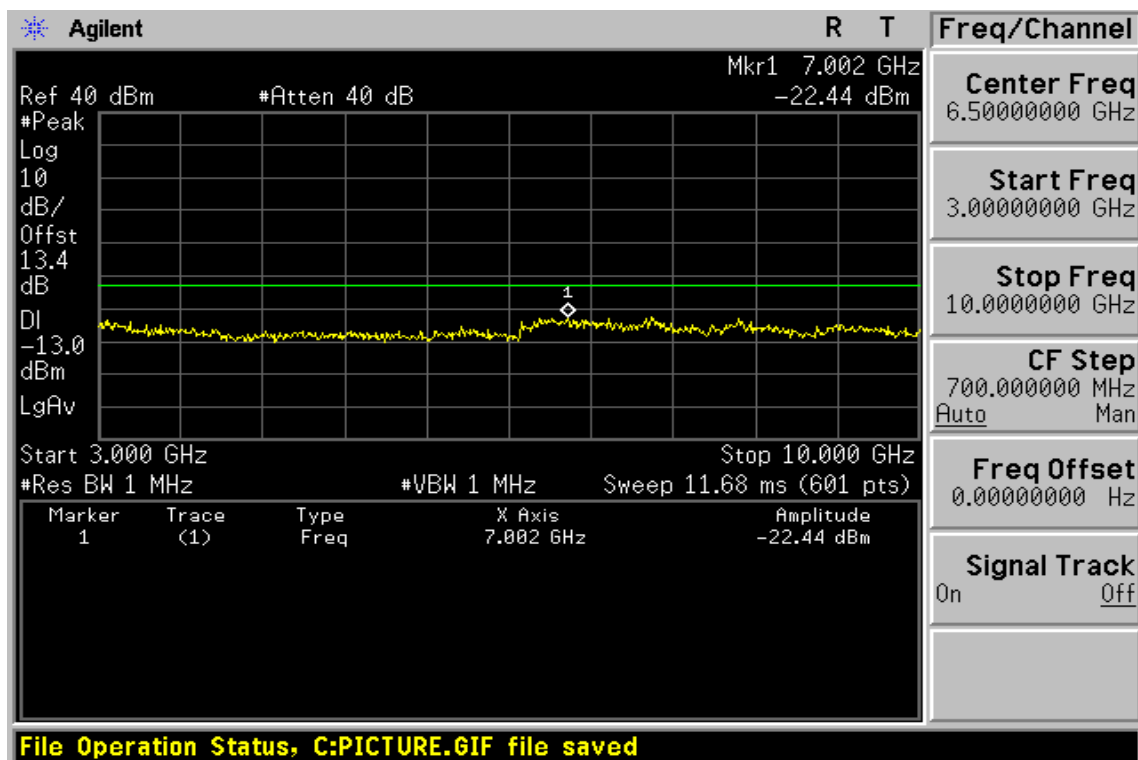
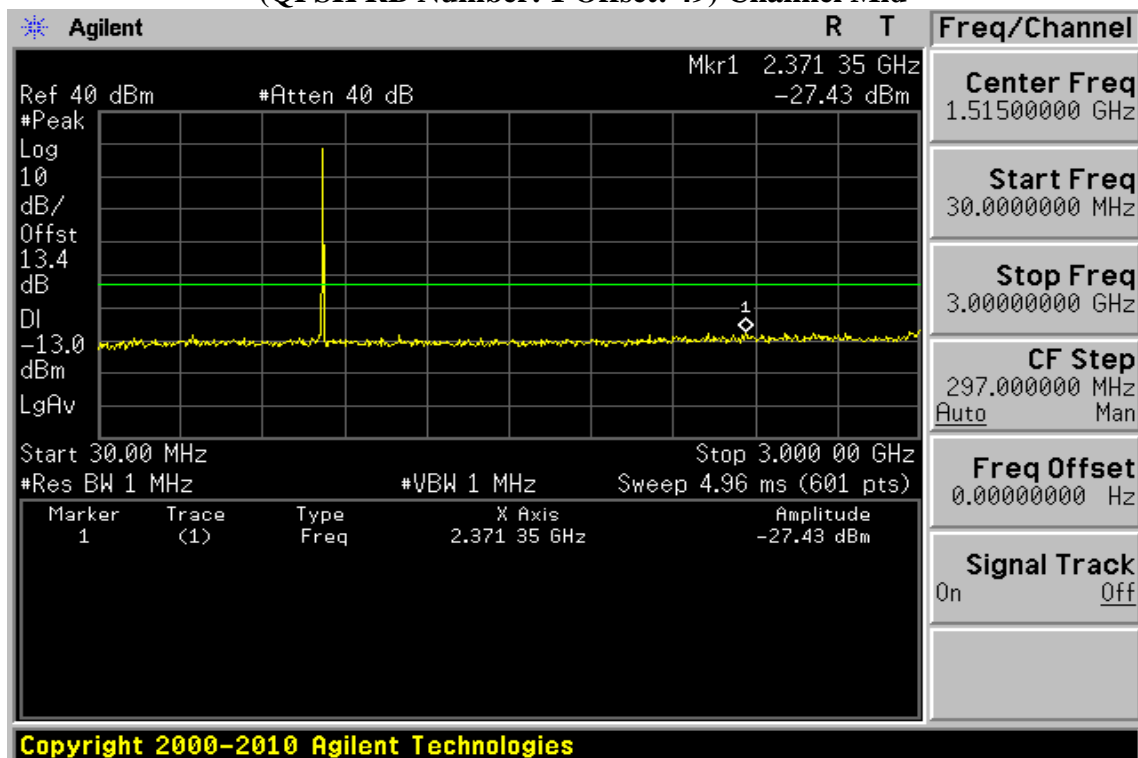
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Figure 9-127: Out of Band emission at antenna terminals – 10MHz BW LTE-Band 26 (QPSK RB Number: 1 Offset: 49) Channel Mid



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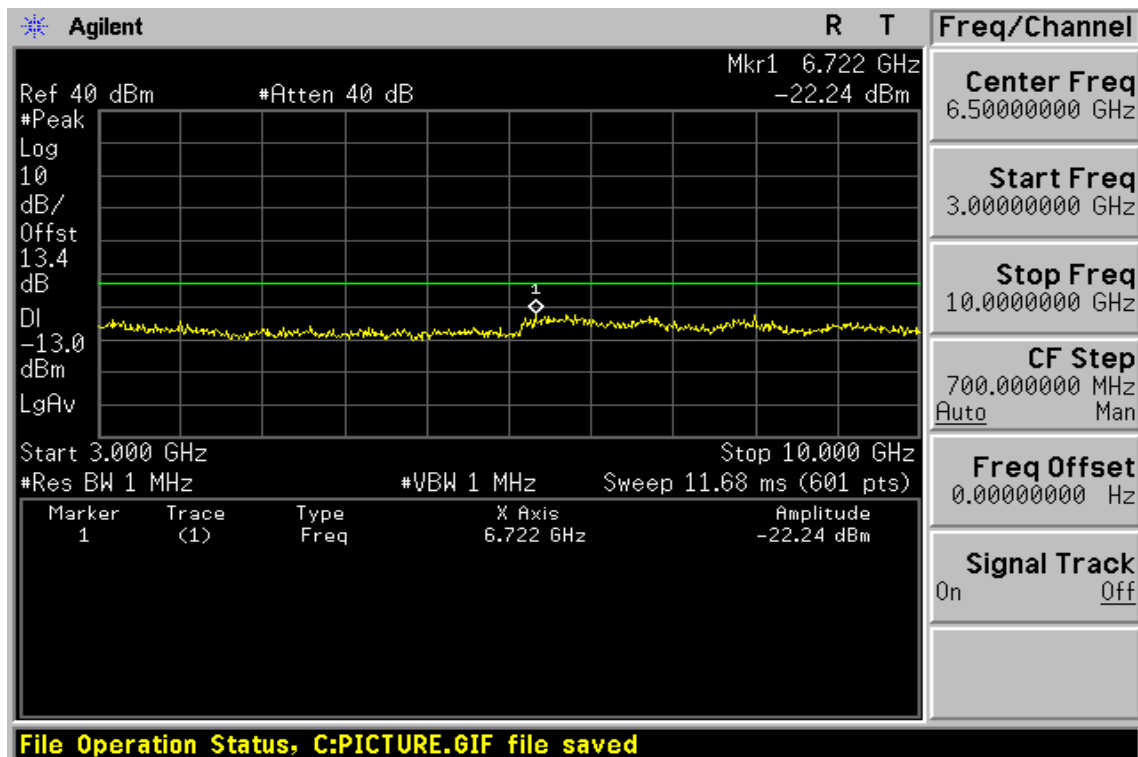
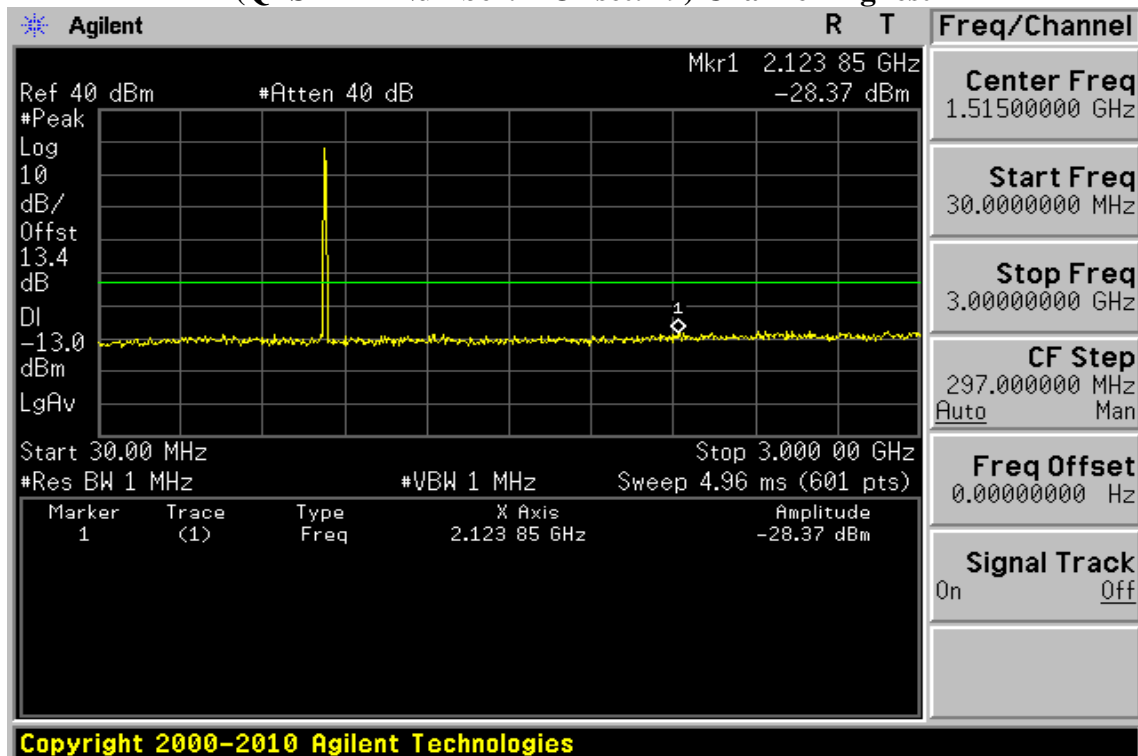
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Figure 9-128: Out of Band emission at antenna terminals –10MHz BW LTE-Band 26 (QPSK RB Number: 1 Offset: 49) Channel Highest



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Figure 9-129: Band edge emission at antenna terminals – 10MHz BW LTE-Band 26 (QPSK RB Number: 50 Offset: 0) Channel Lowest

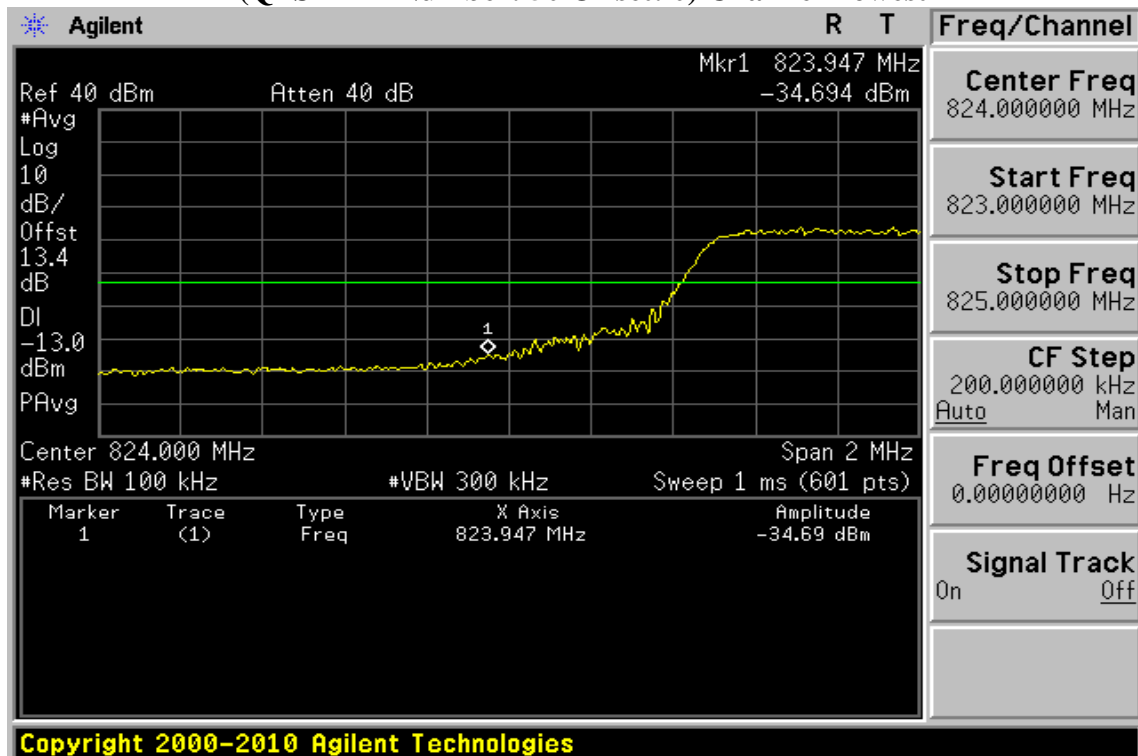
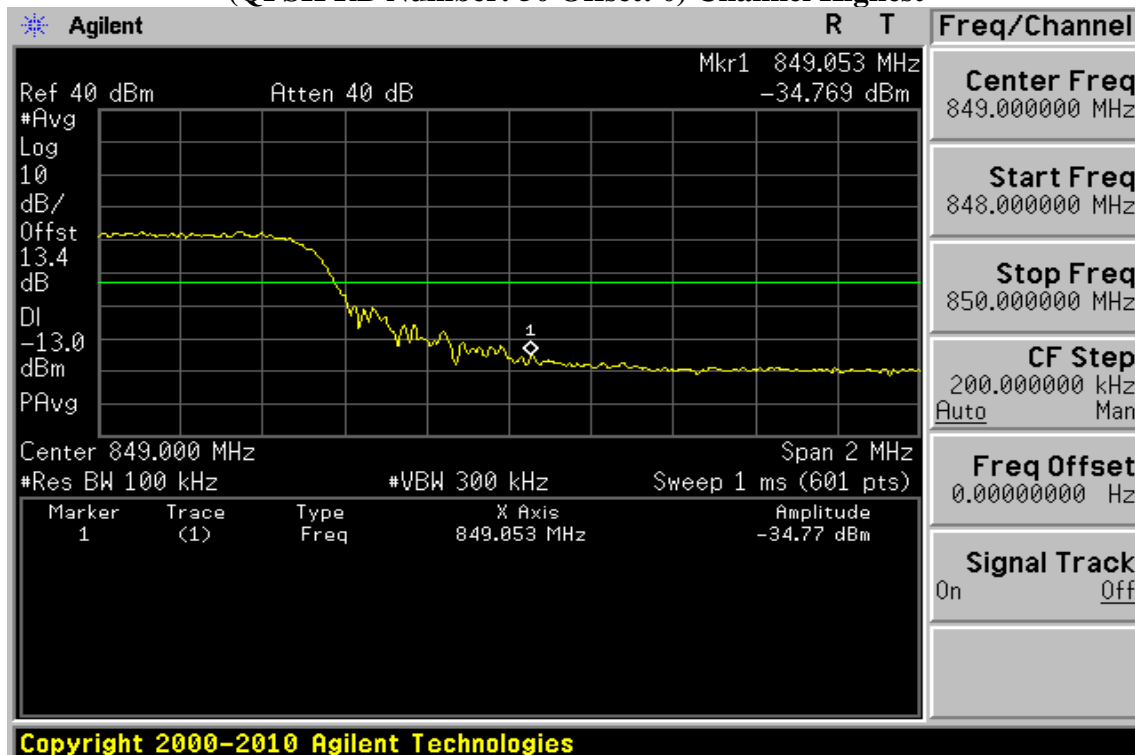


Figure 9-130: Band edge emission at antenna terminals –10MHz BW LTE-Band 26 (QPSK RB Number: 50 Offset: 0) Channel Highest



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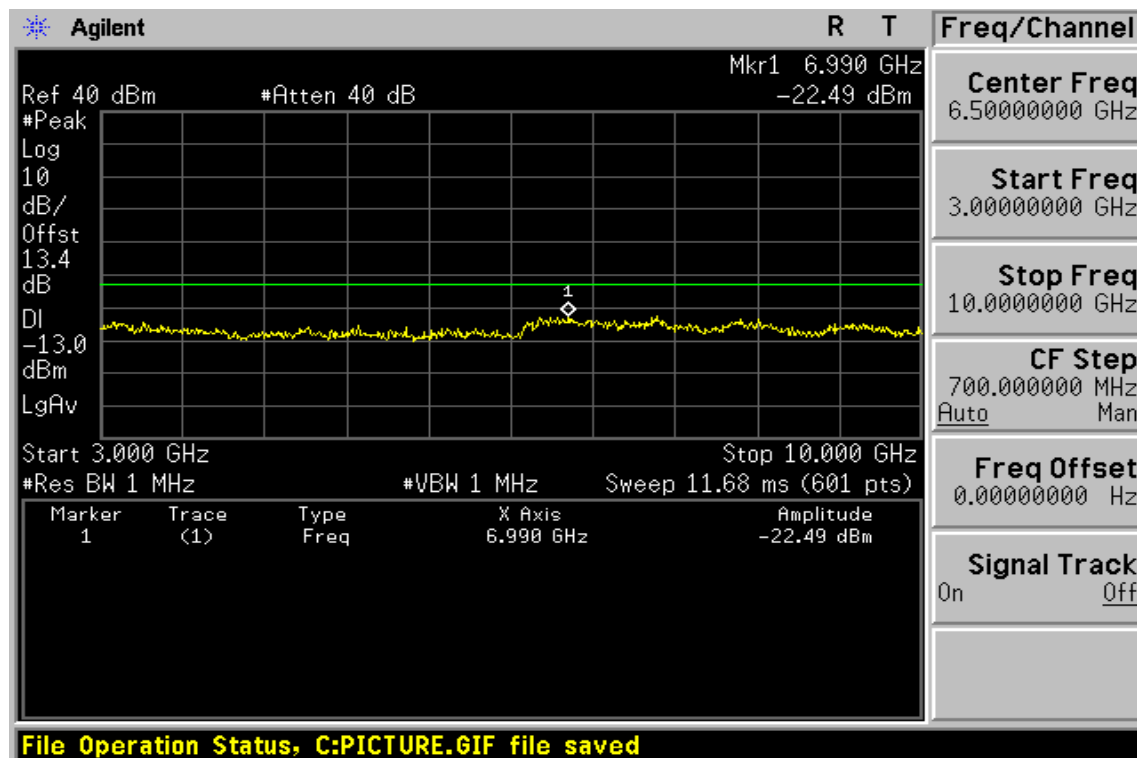
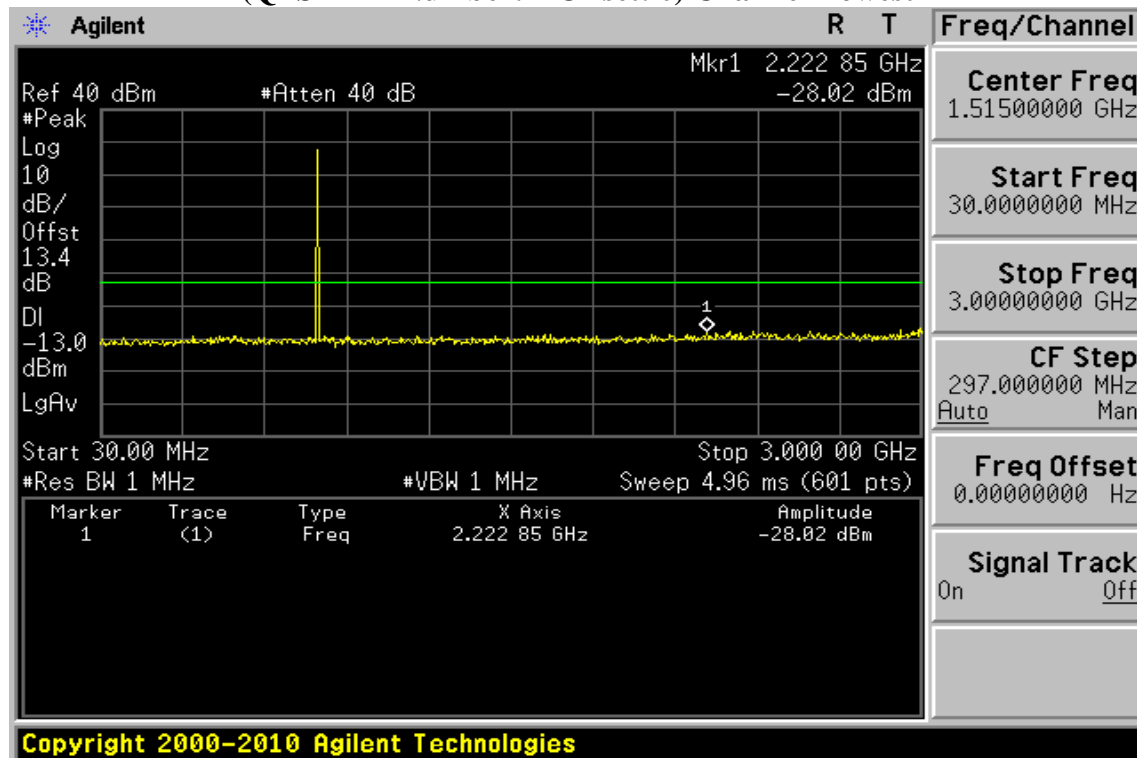
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**Figure 9-131: Out of Band emission at antenna terminals – 1.4MHz BW LTE-Band 26
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



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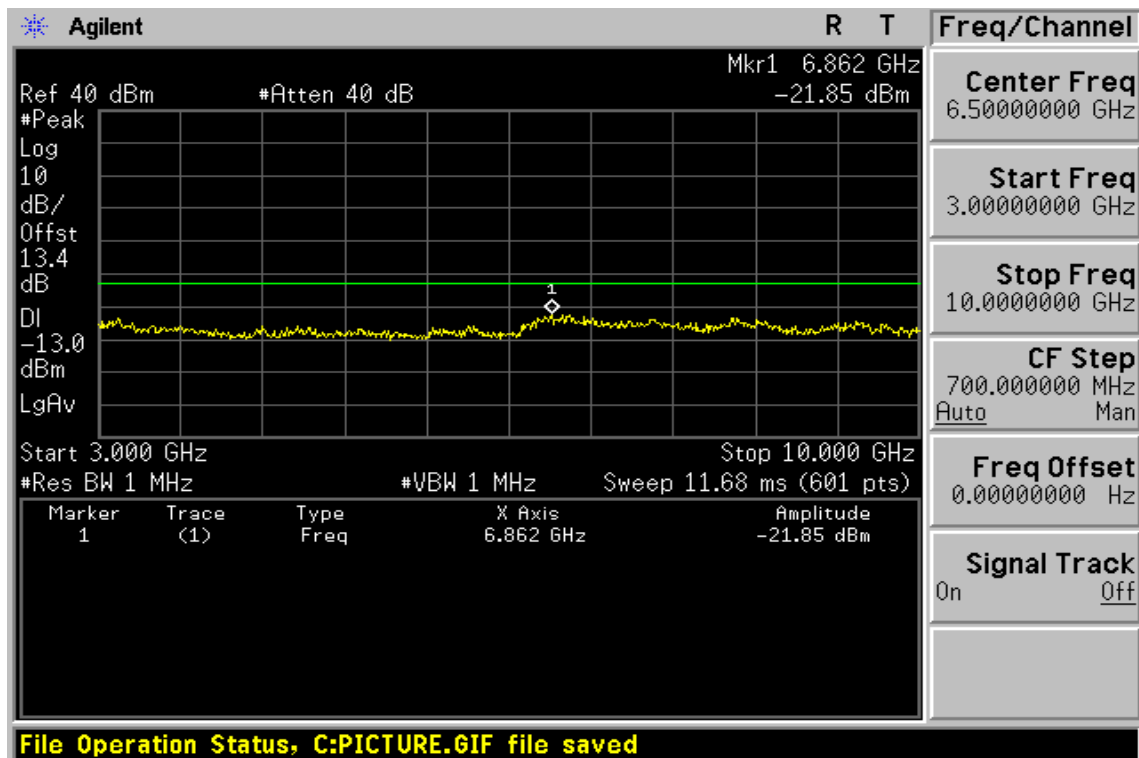
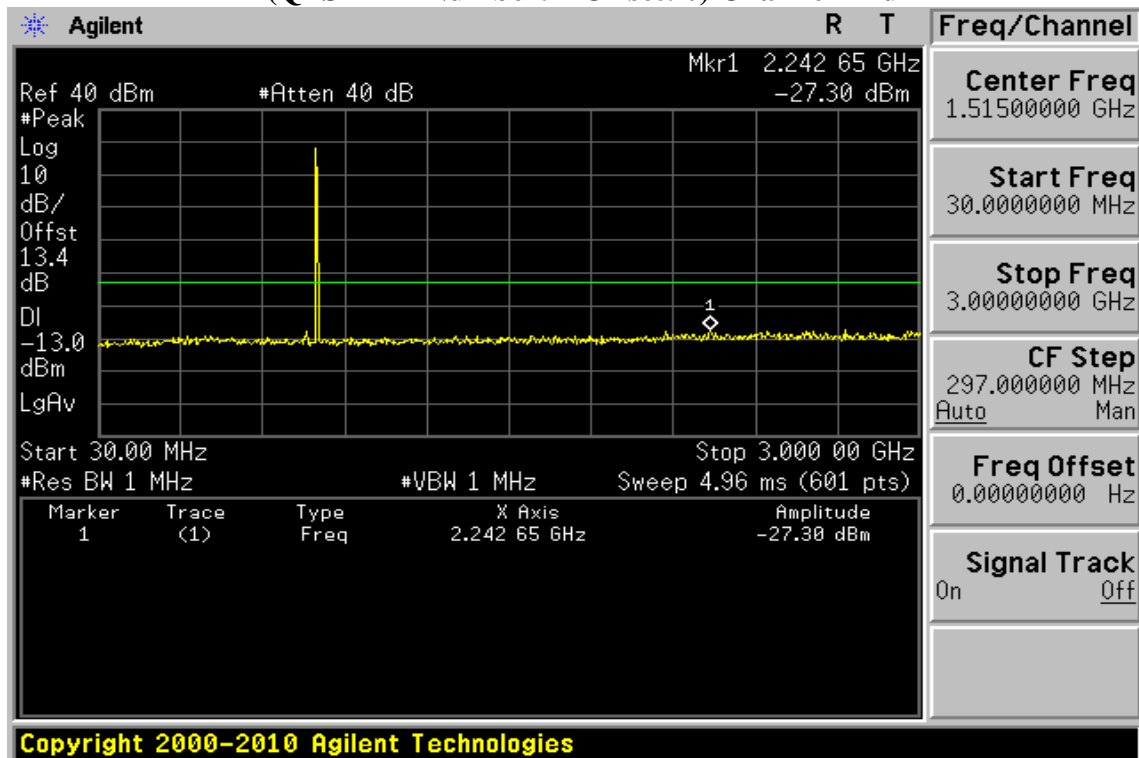
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**Figure 9-132: Out of Band emission at antenna terminals –1.4MHz BW LTE-Band 26
(QPSK RB Number: 1 Offset: 0) Channel Mid**



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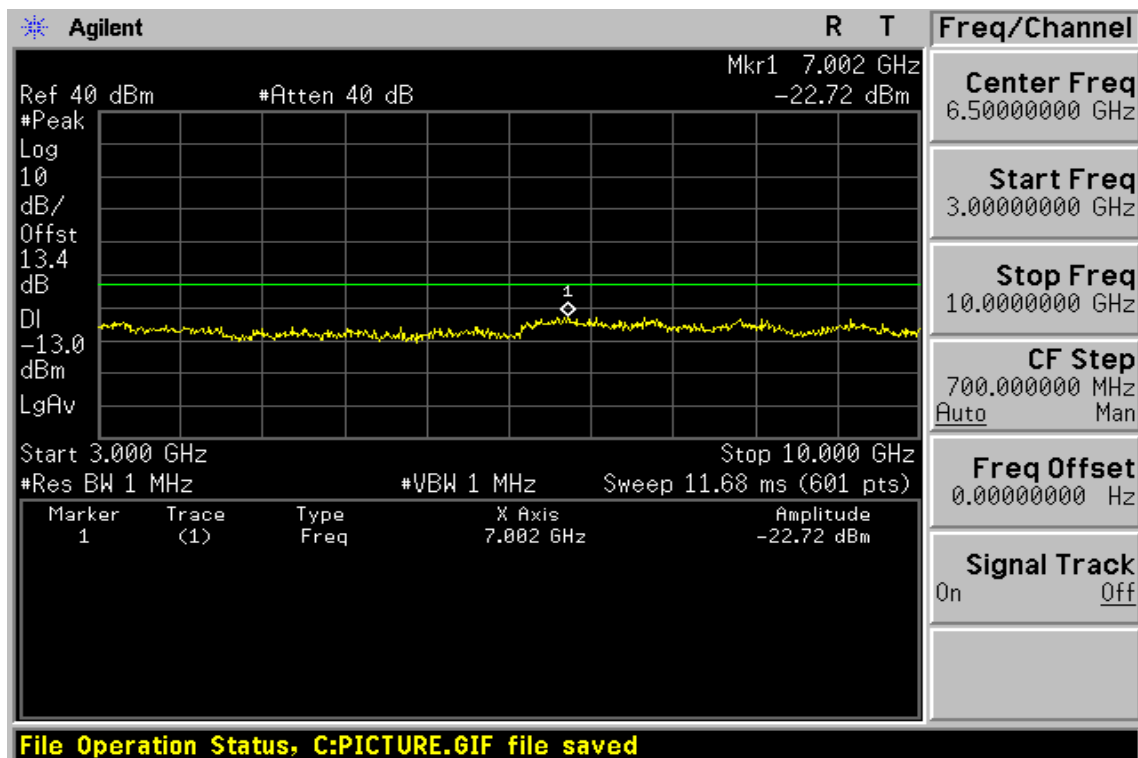
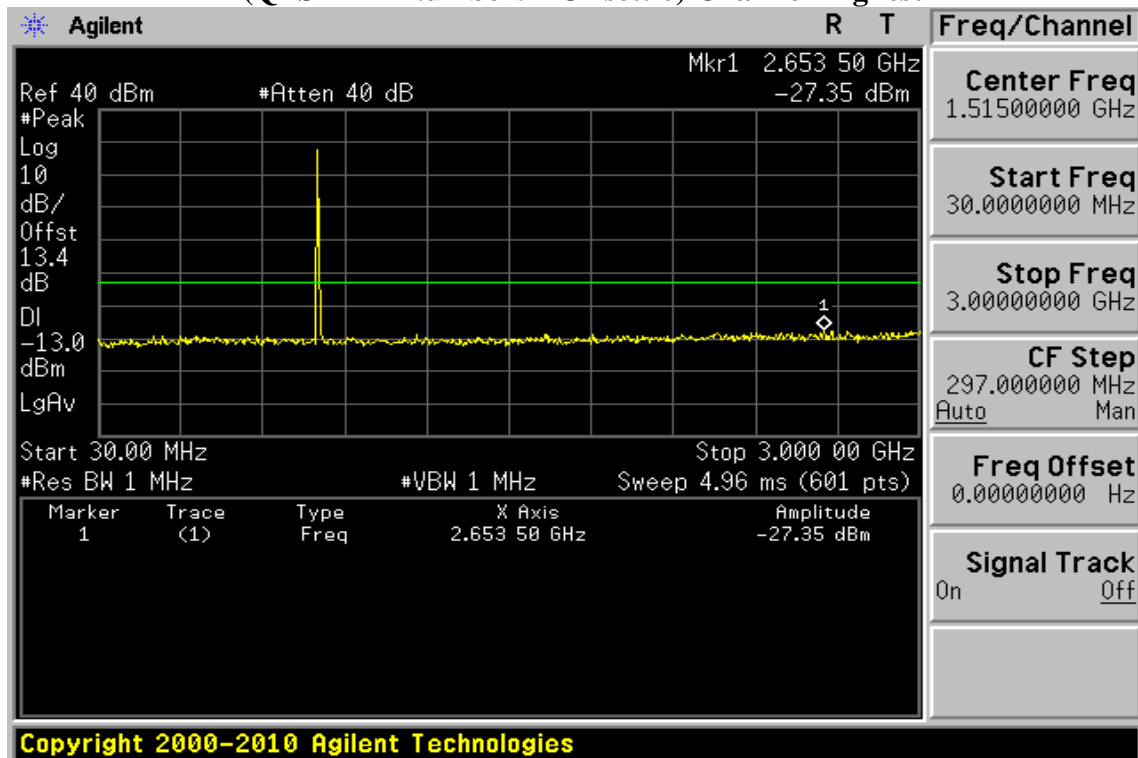
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**Figure 9-133: Out of Band emission at antenna terminals –1.4MHz BW LTE-Band 26
(QPSK RB Number: 1 Offset: 0) Channel Highest**



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Figure 9-134: Band edge emission at antenna terminals – 1.4MHz BW LTE-Band 26 (QPSK RB Number: 1 Offset: 0) Channel Lowest

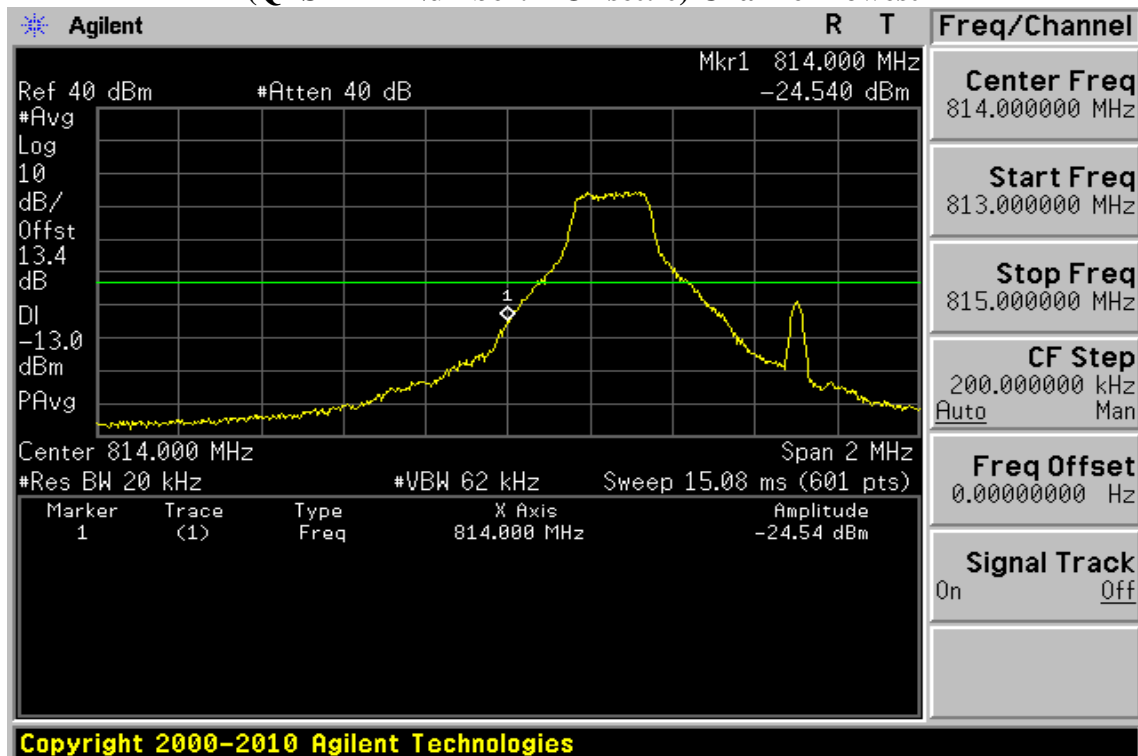
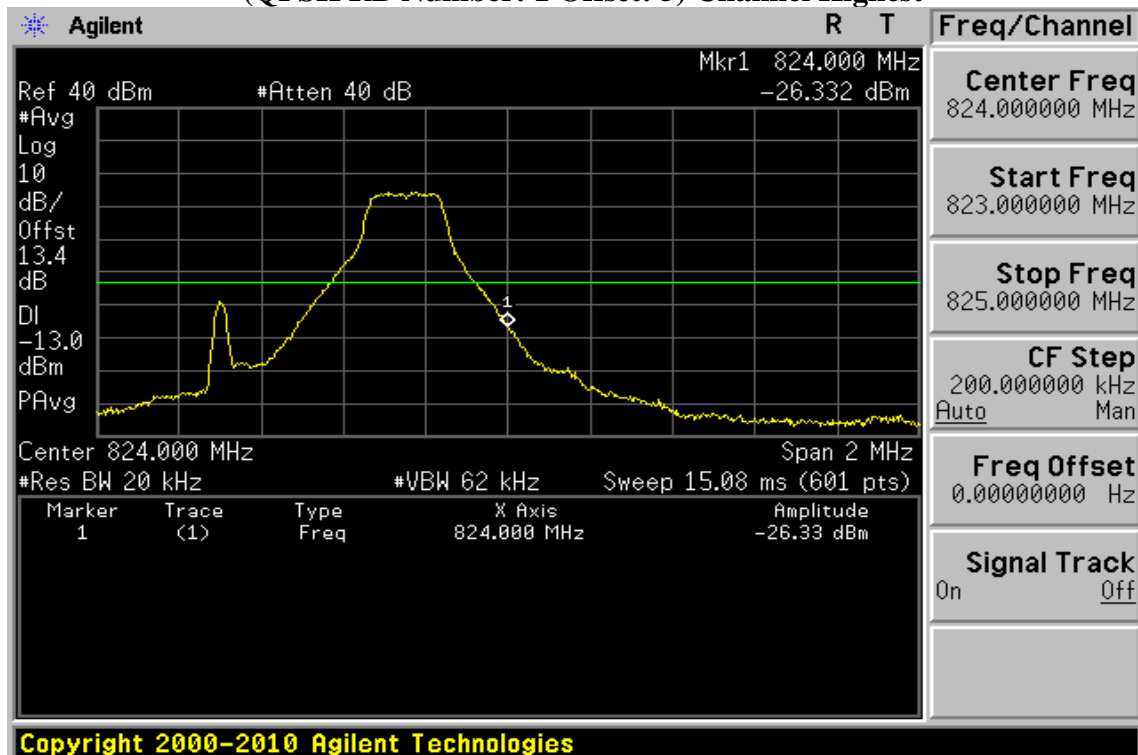


Figure 9-135: Band edge emission at antenna terminals – 1.4MHz BW LTE-Band 26 (QPSK RB Number: 1 Offset: 5) Channel Highest



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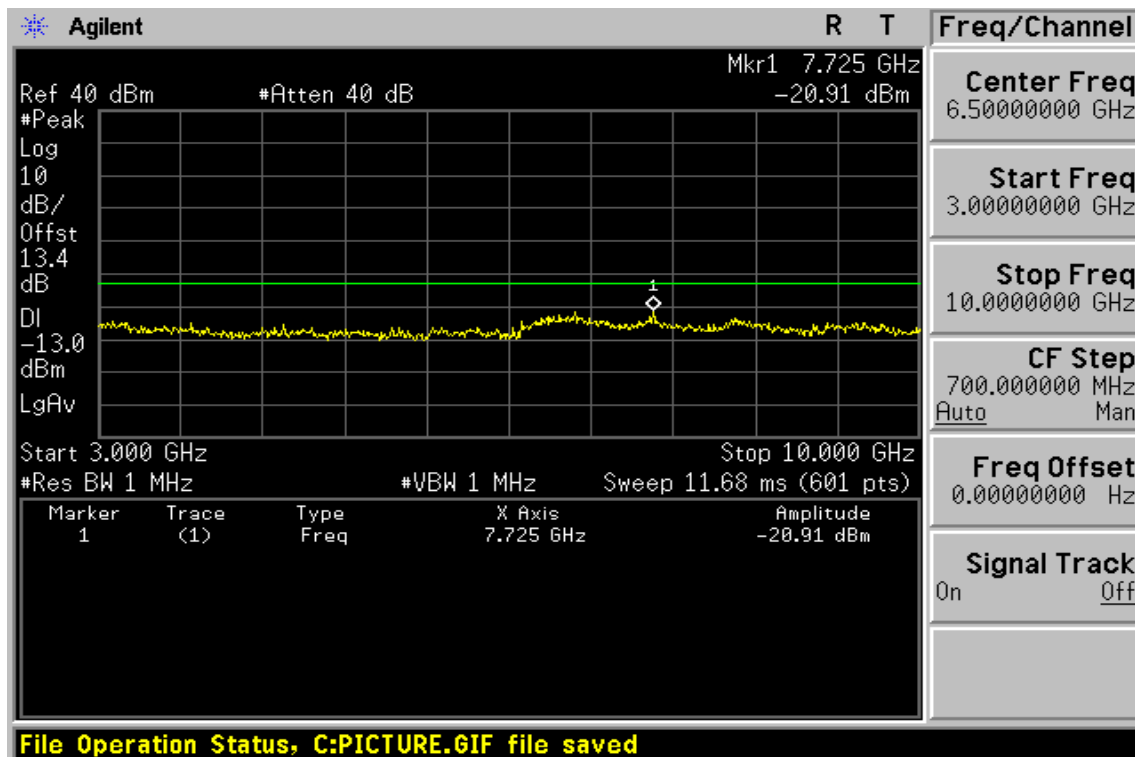
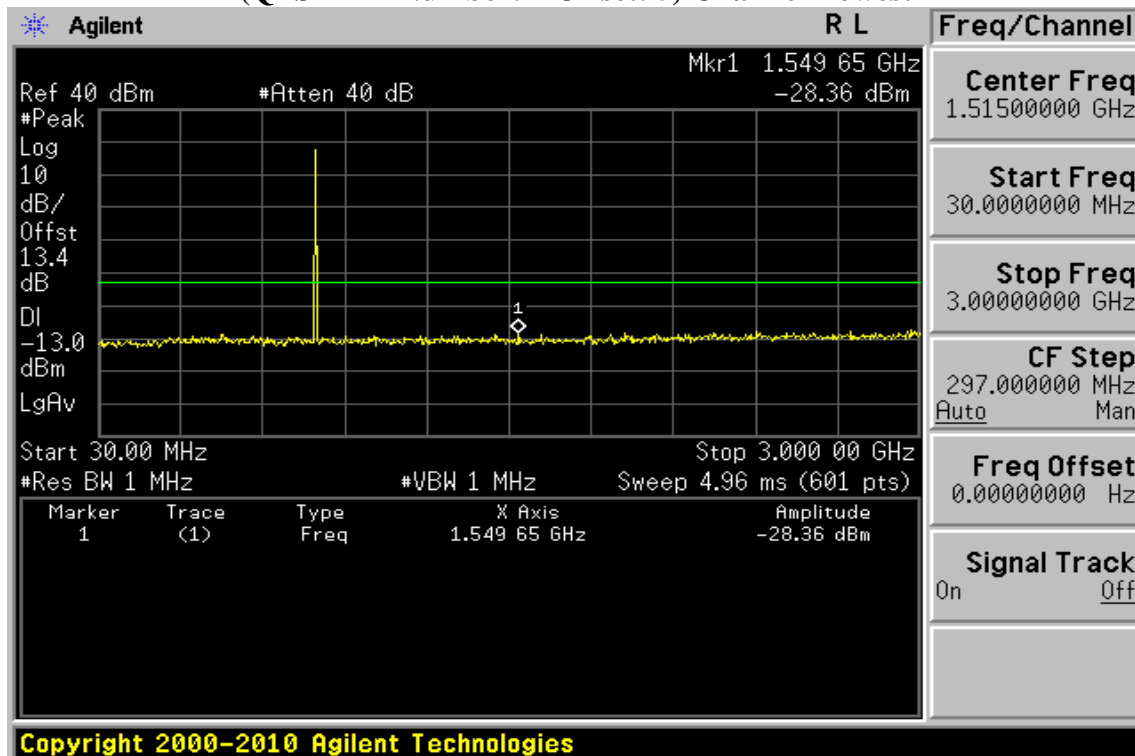
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Figure 9-136: Out of Band emission at antenna terminals – 1.4MHz BW LTE-Band 26 (QPSK RB Number: 1 Offset: 5) Channel Lowest



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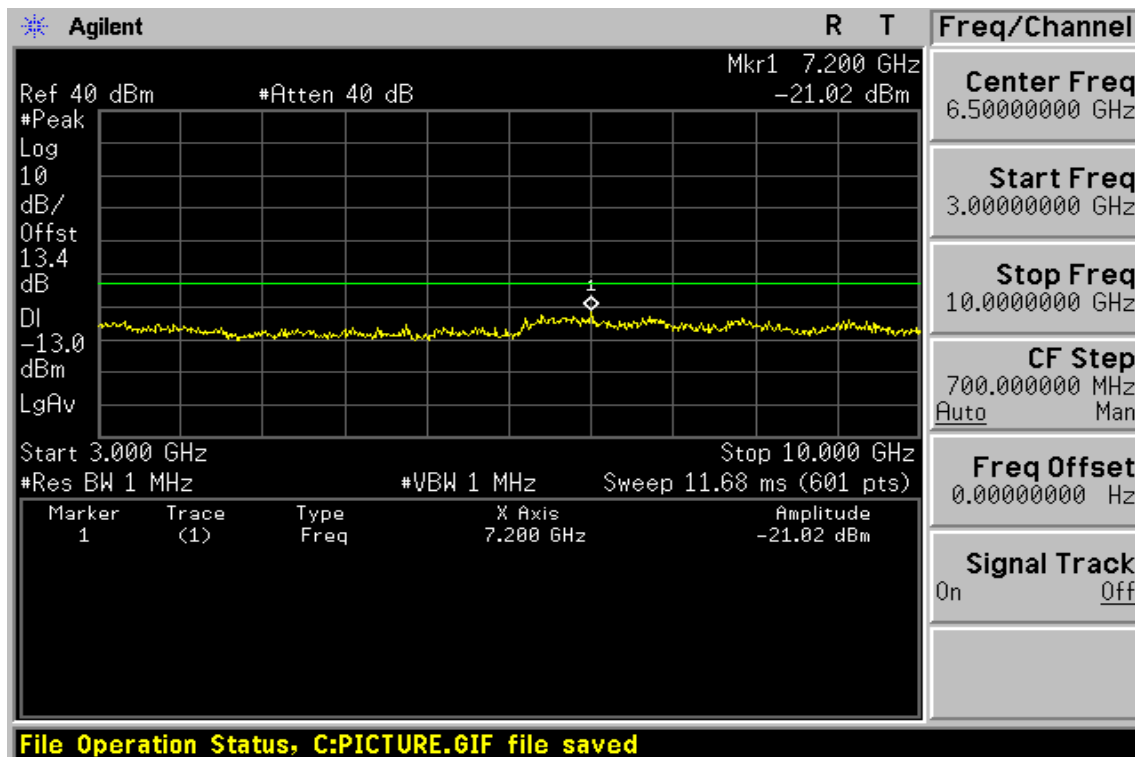
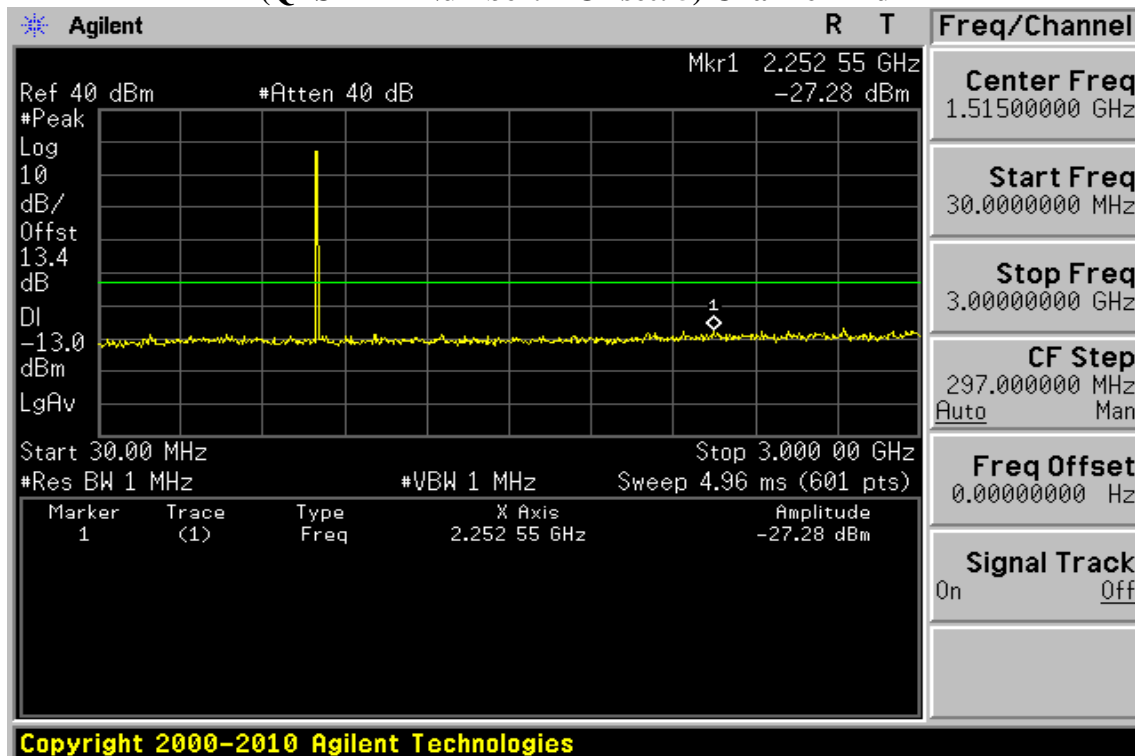
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Figure 9-137: Out of Band emission at antenna terminals –1.4MHz BW LTE-Band 26 (QPSK RB Number: 1 Offset: 5) Channel Mid



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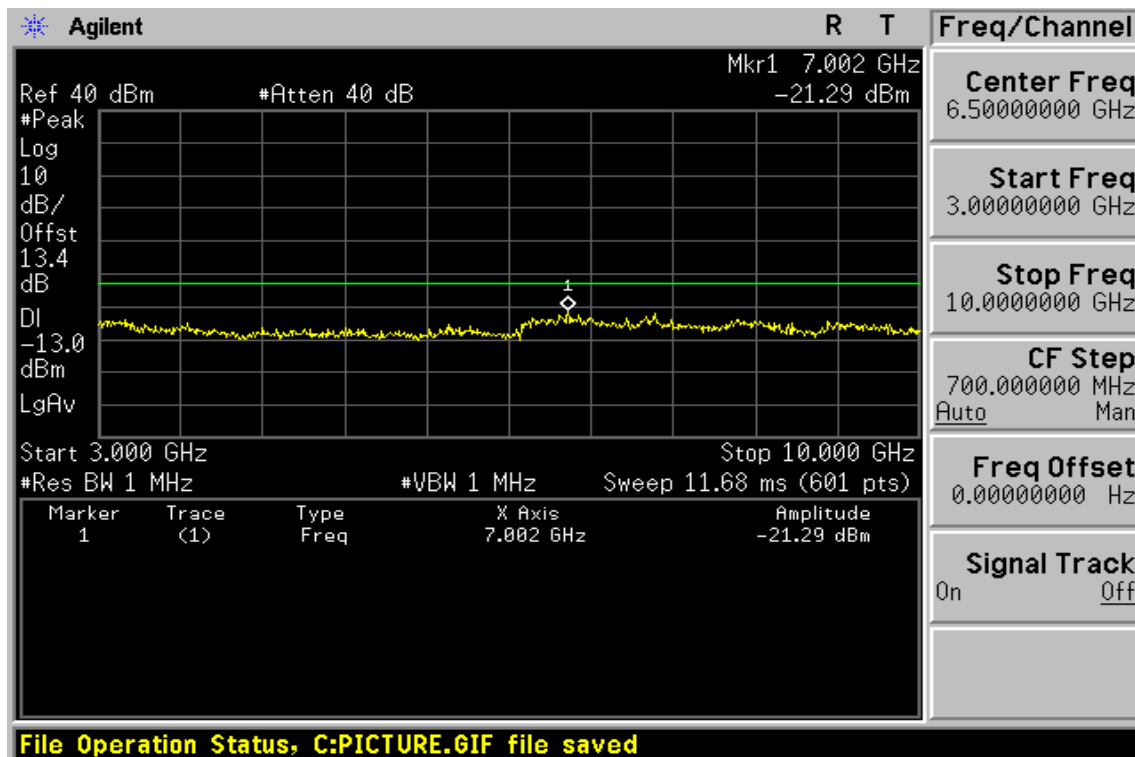
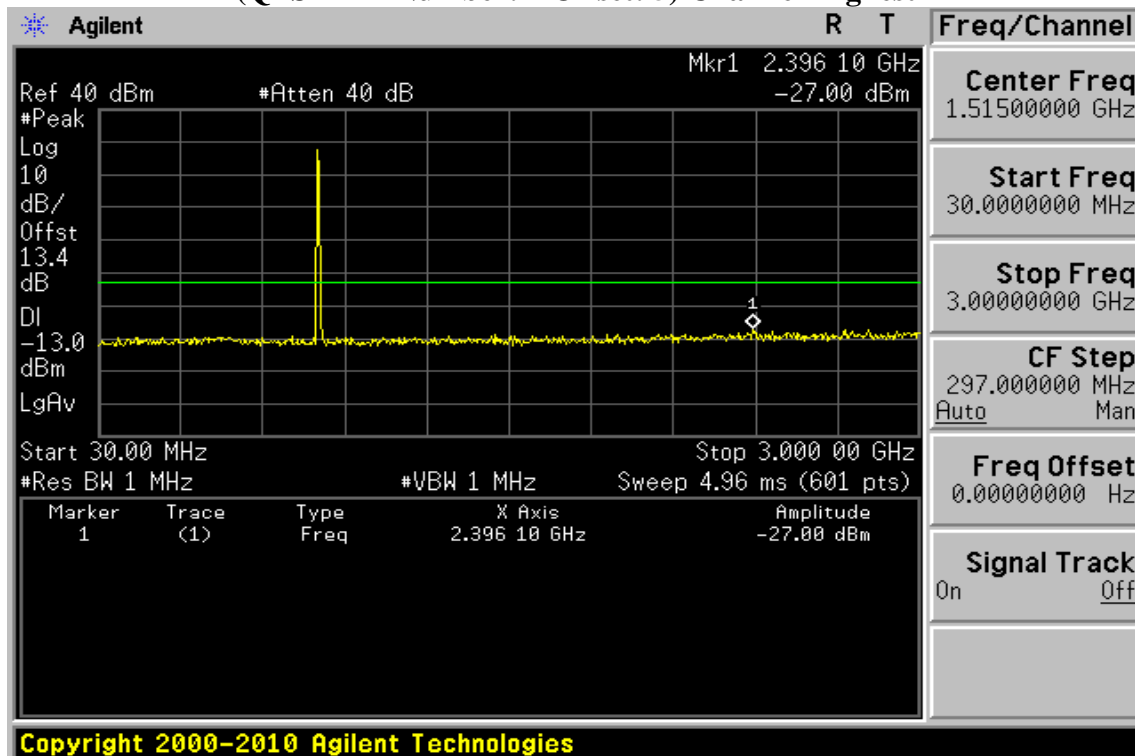
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Figure 9-138: Out of Band emission at antenna terminals –1.4MHz BW LTE-Band 26 (QPSK RB Number: 1 Offset: 5) Channel Highest



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Figure 9-139: Band edge emission at antenna terminals –1.4MHz BW LTE-Band 26 (QPSK RB Number: 6 Offset: 0) Channel Lowest

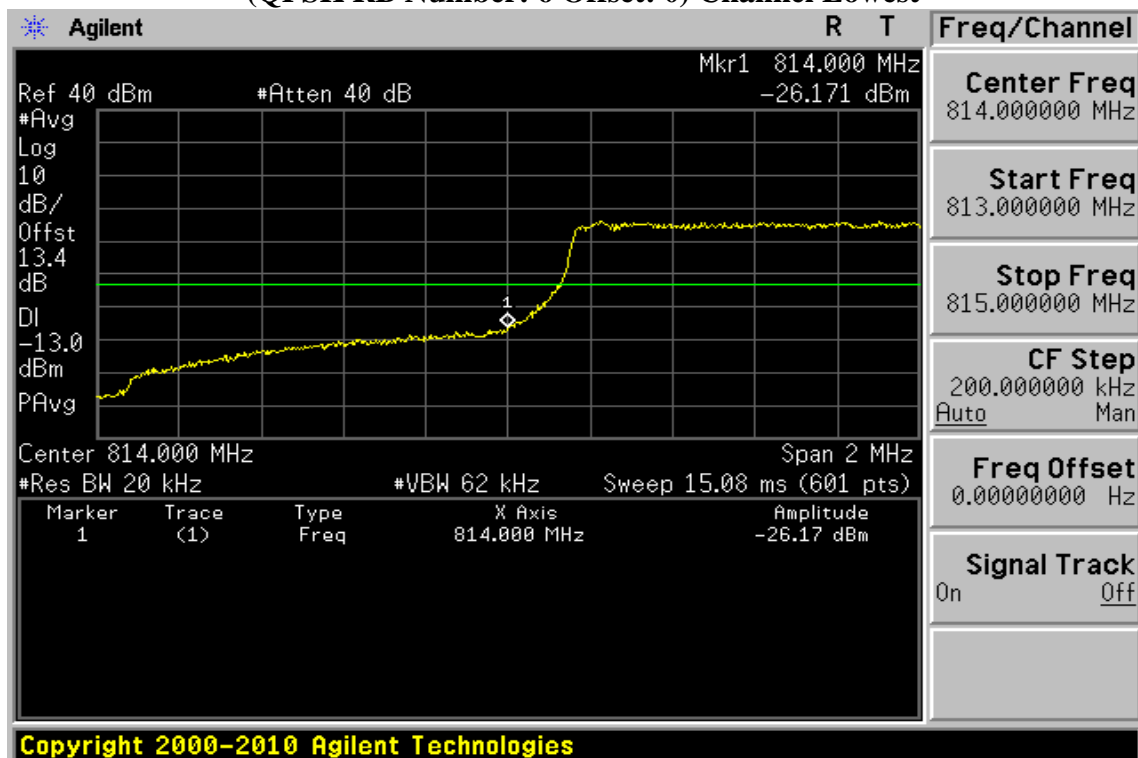
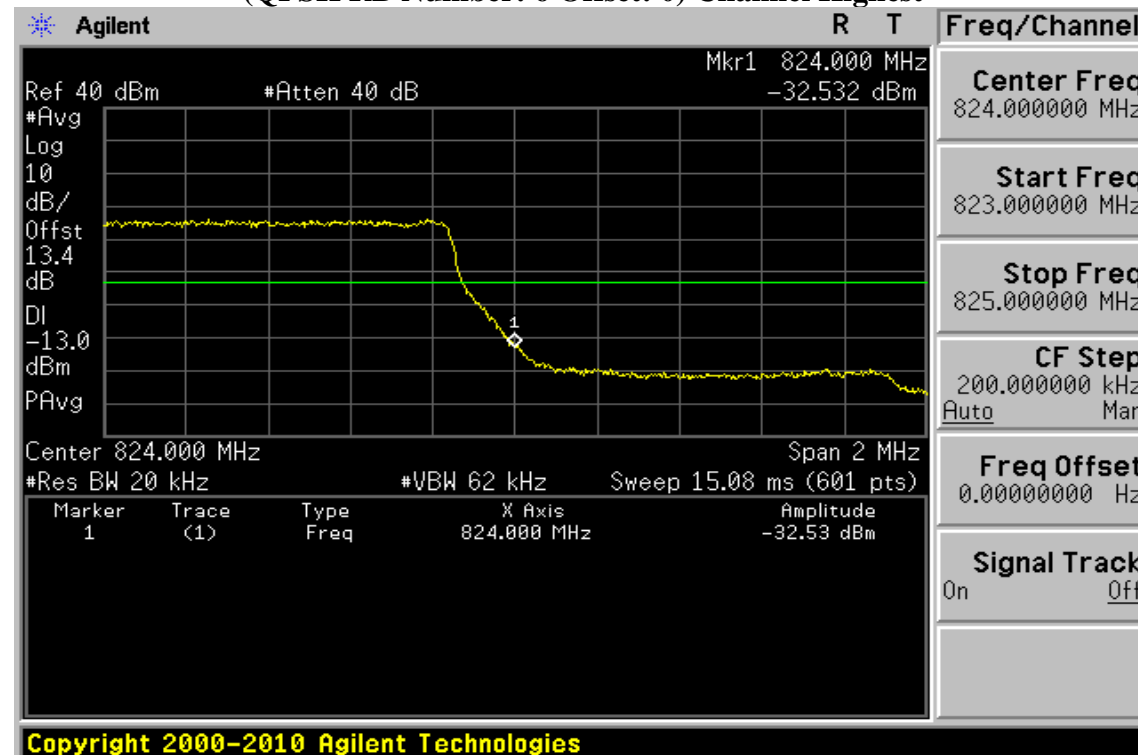


Figure 9-140: Band edge emission at antenna terminals –1.4MHz BW LTE-Band 26 (QPSK RB Number: 6 Offset: 0) Channel Highest



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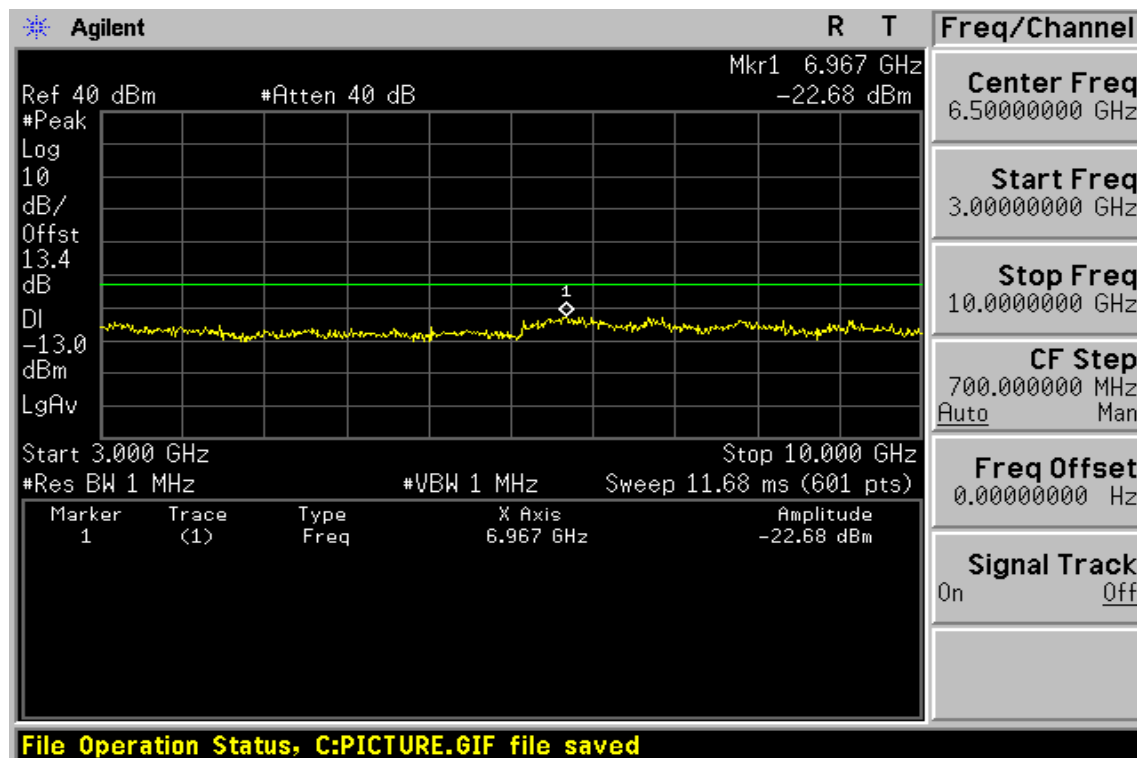
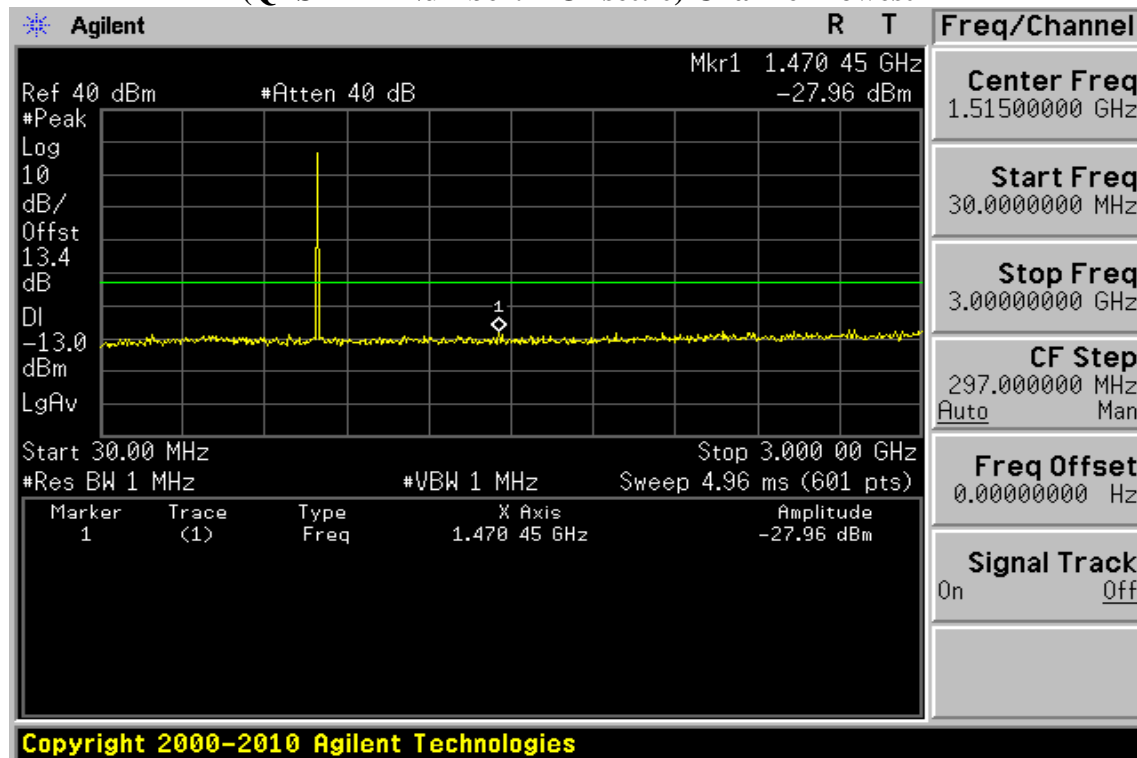
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**Figure 9-141: Out of Band emission at antenna terminals – 3MHz BW LTE-Band 26
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



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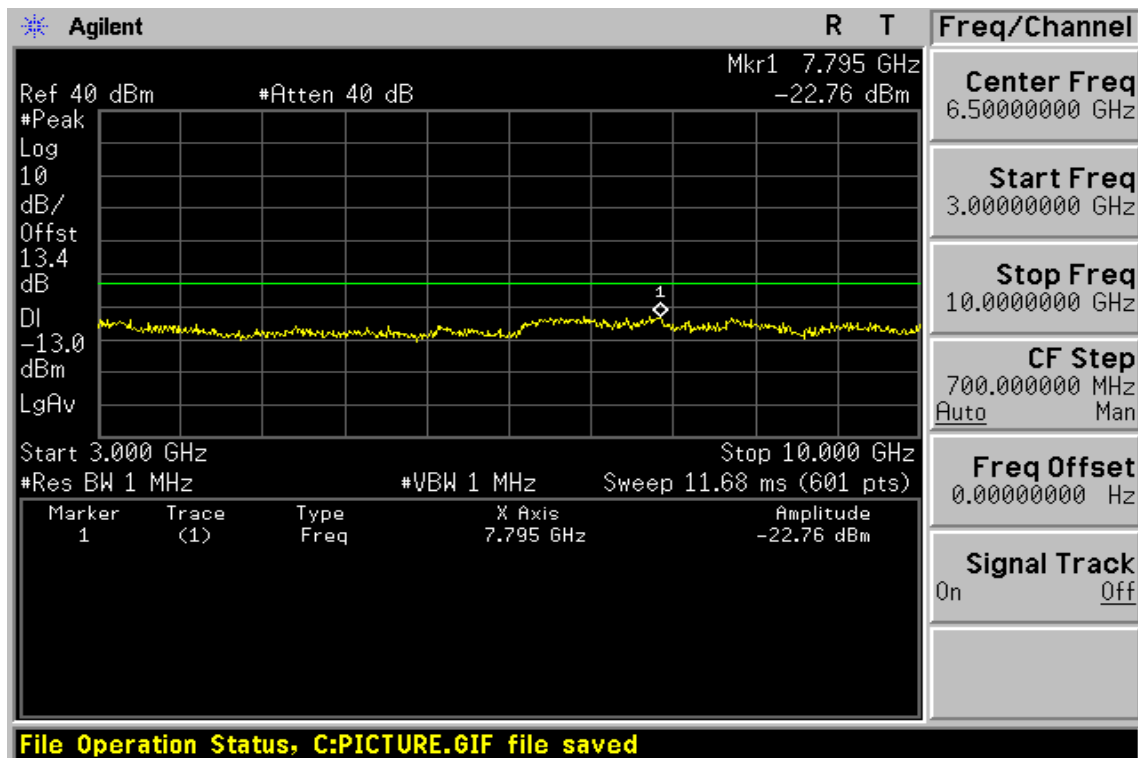
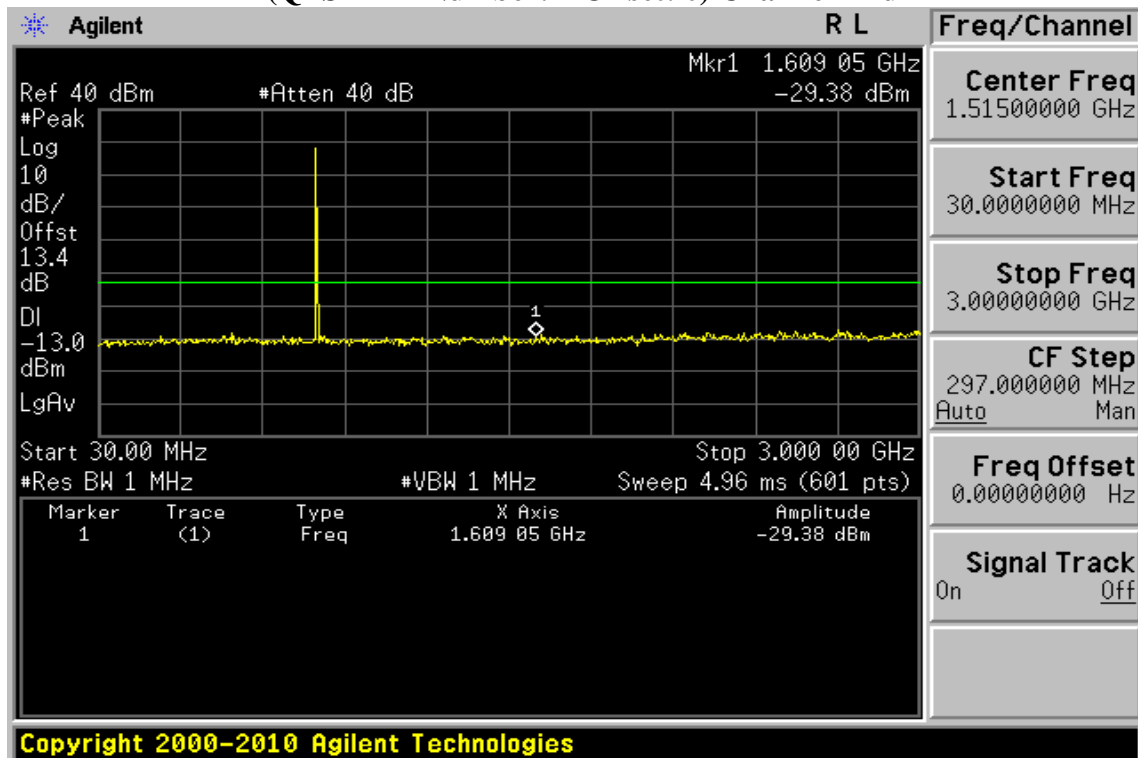
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**Figure 9-142: Out of Band emission at antenna terminals –3MHz BW LTE-Band 26
(QPSK RB Number: 1 Offset: 0) Channel Mid**



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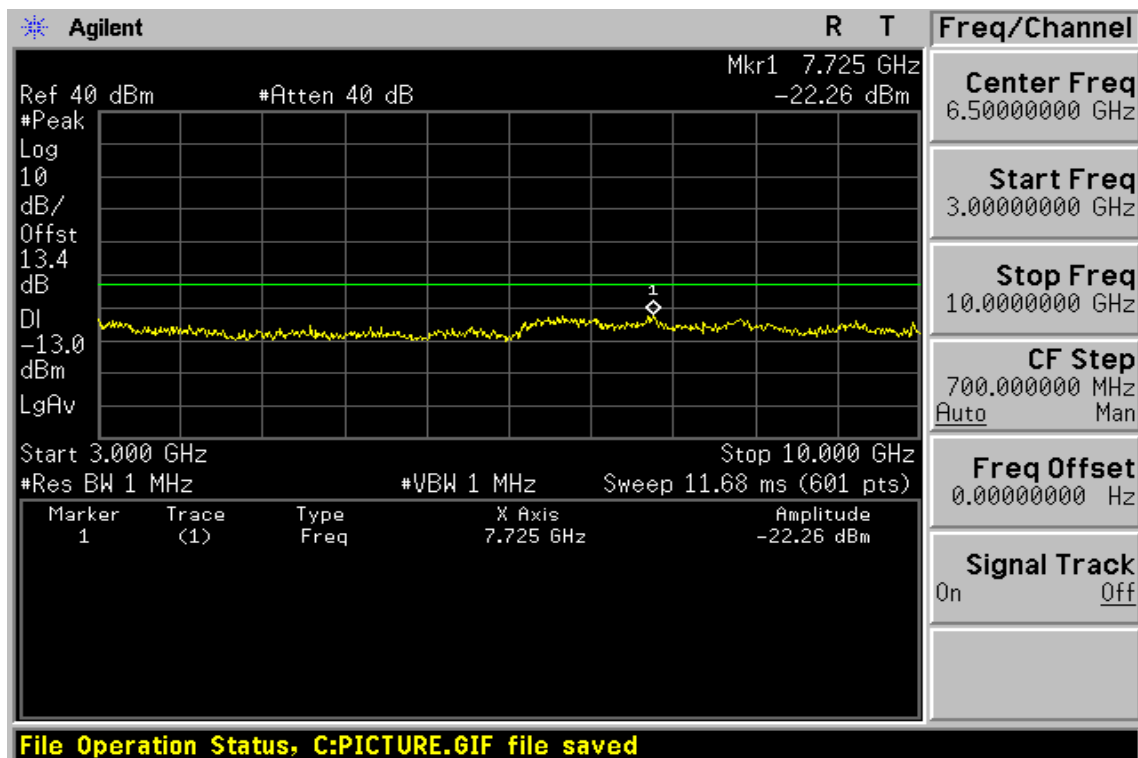
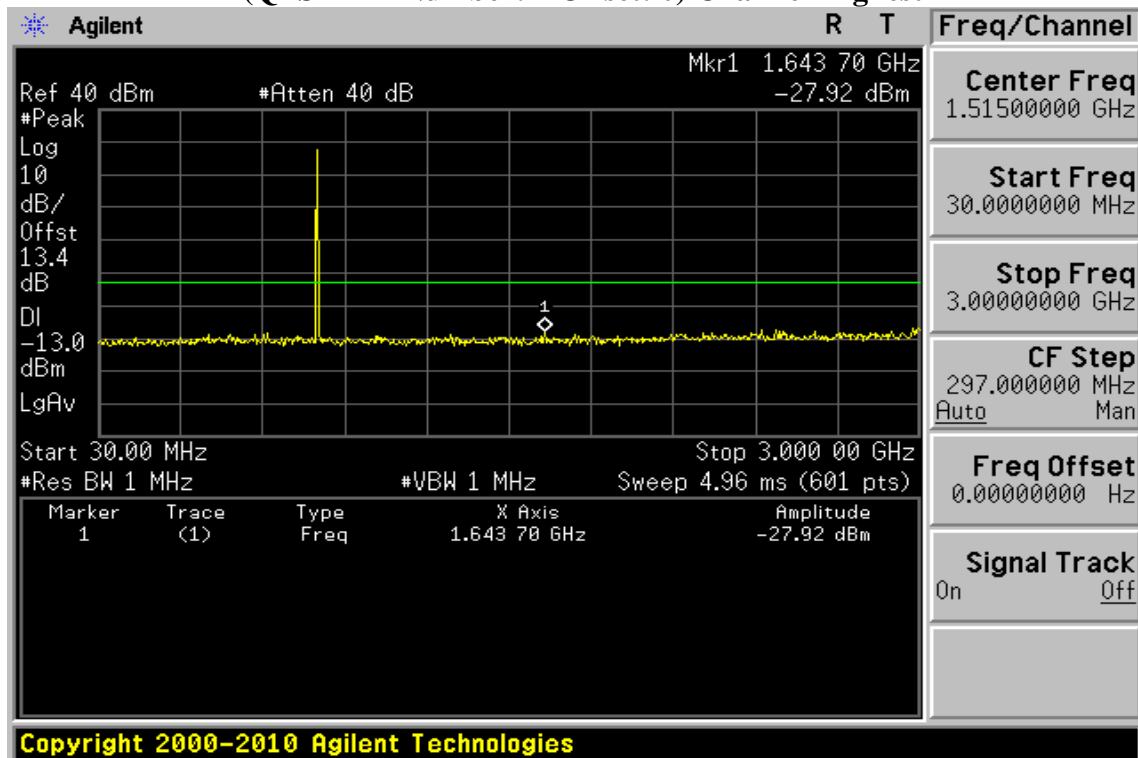
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**Figure 9-143: Out of Band emission at antenna terminals –3MHz BW LTE-Band 26
(QPSK RB Number: 1 Offset: 0) Channel Highest**



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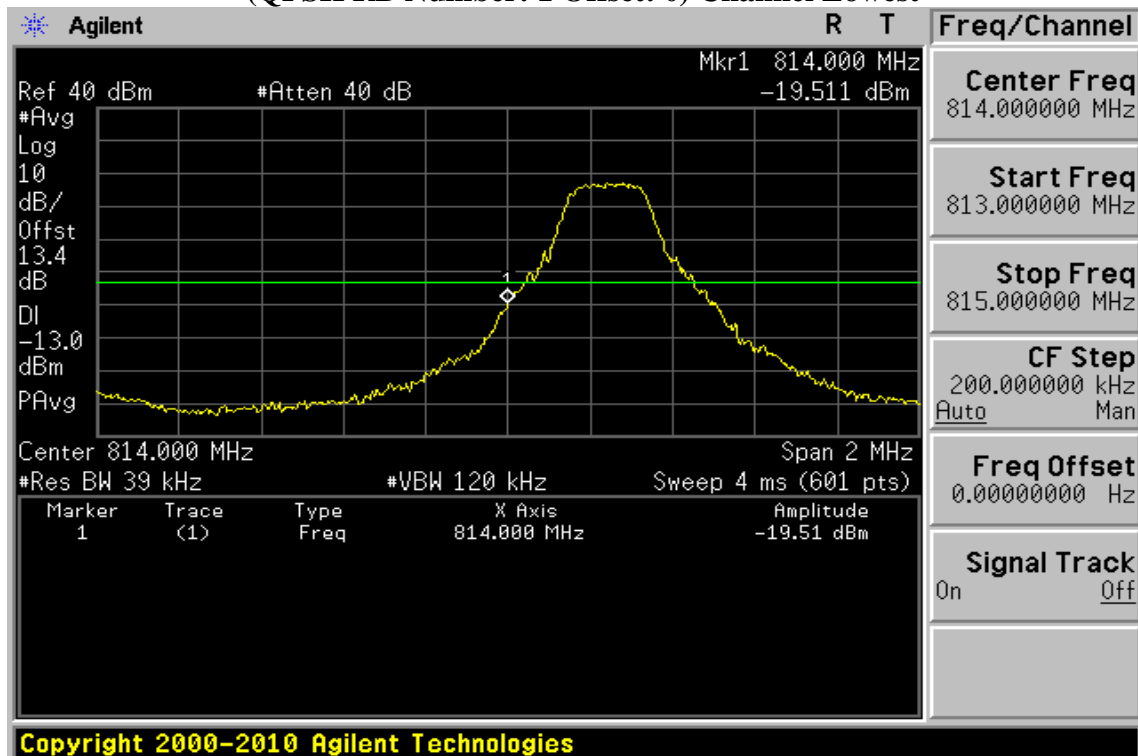
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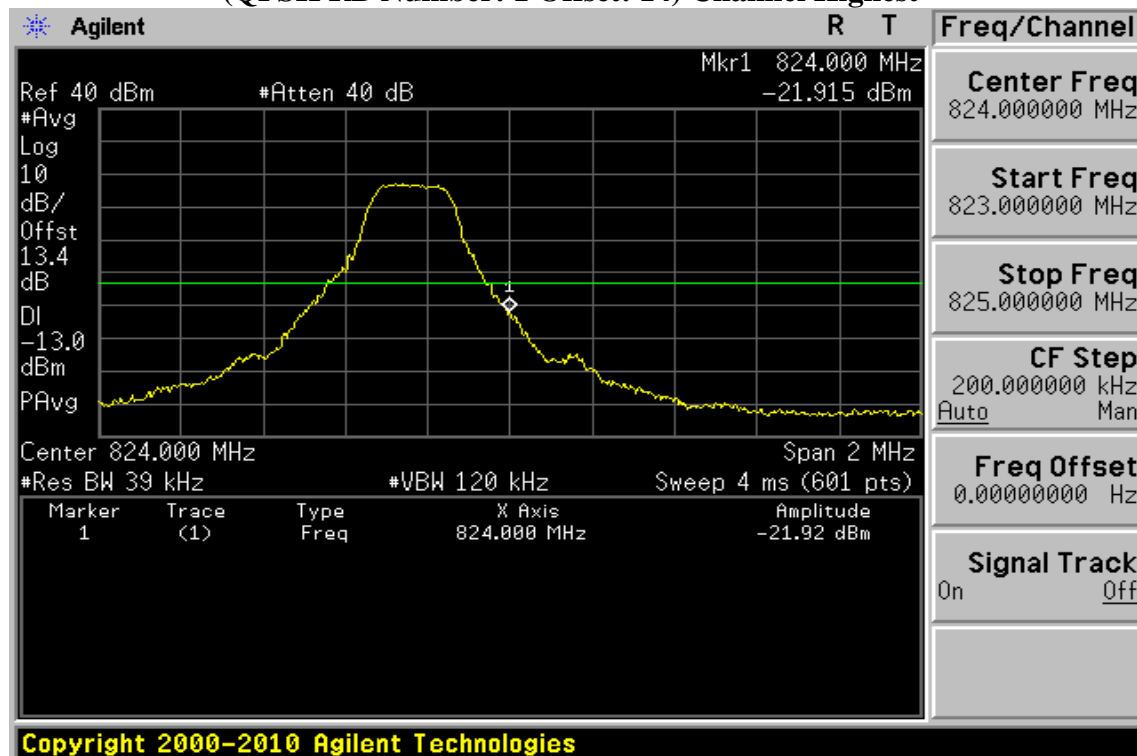
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**Figure 9-144: Band edge emission at antenna terminals – 3MHz BW LTE-Band 26
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Figure 9-145: Band edge emission at antenna terminals –3MHz BW LTE-Band 26
(QPSK RB Number: 1 Offset: 14) Channel Highest**



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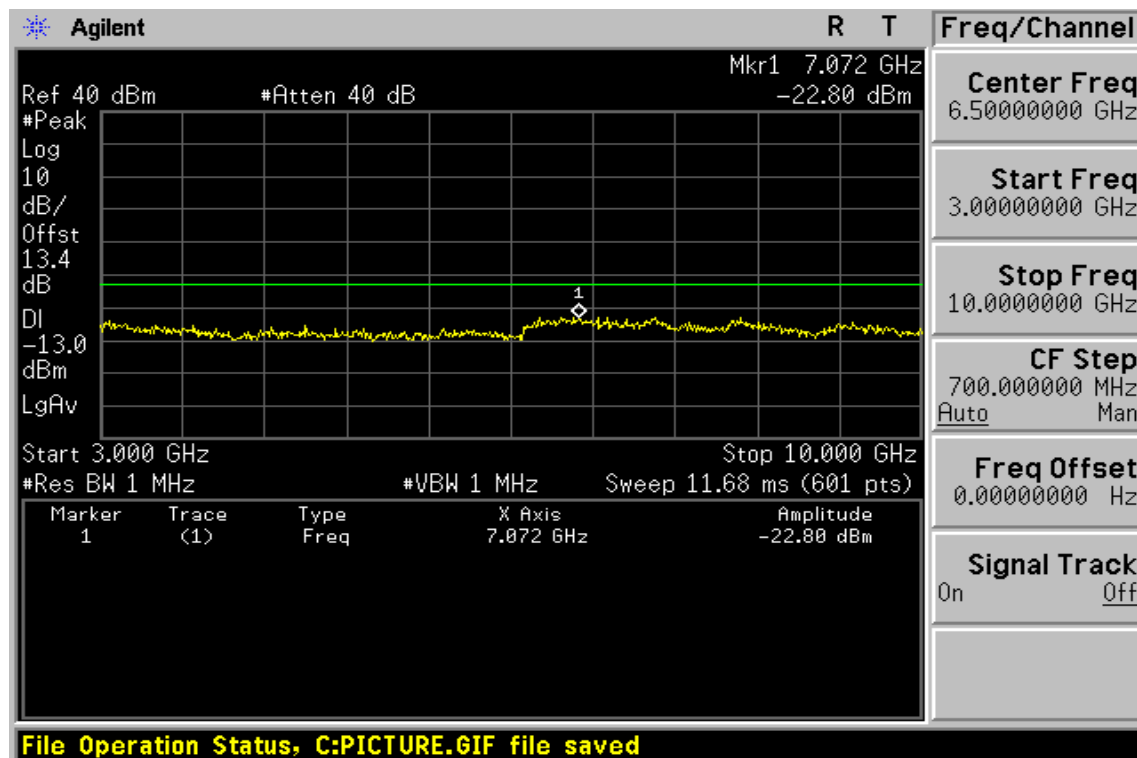
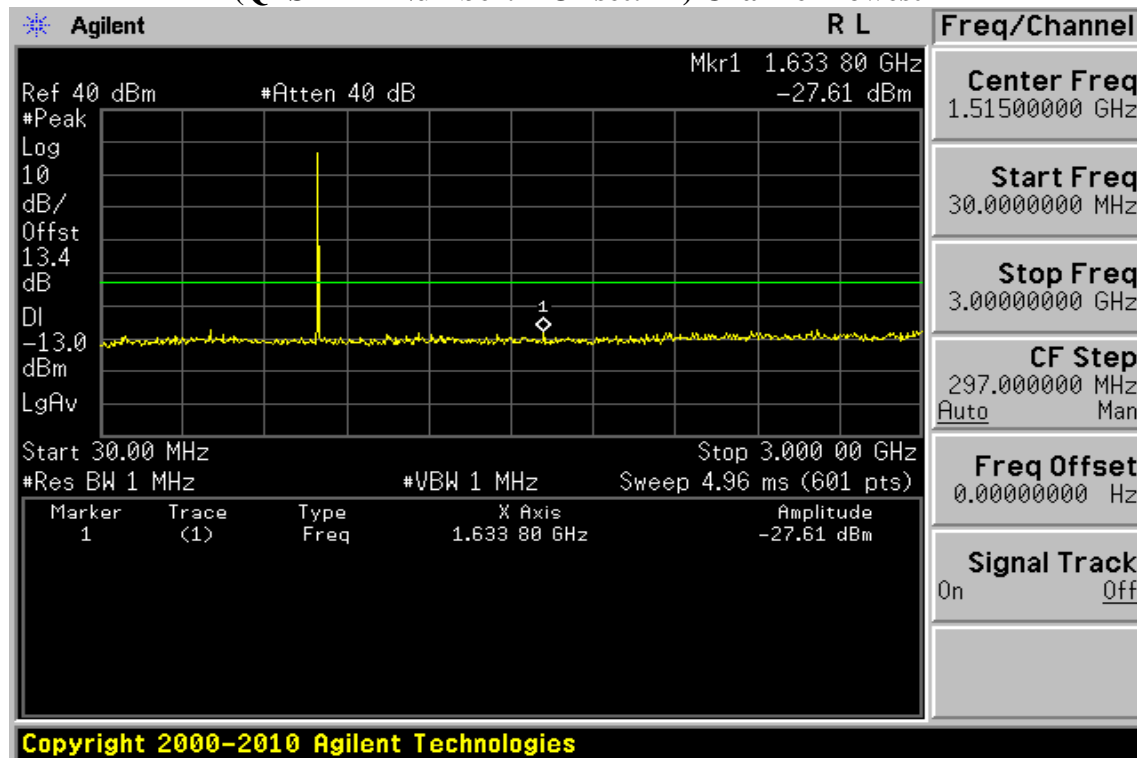
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**Figure 9-146: Out of Band emission at antenna terminals – 3MHz BW LTE-Band 26
(QPSK RB Number: 1 Offset: 14) Channel Lowest**



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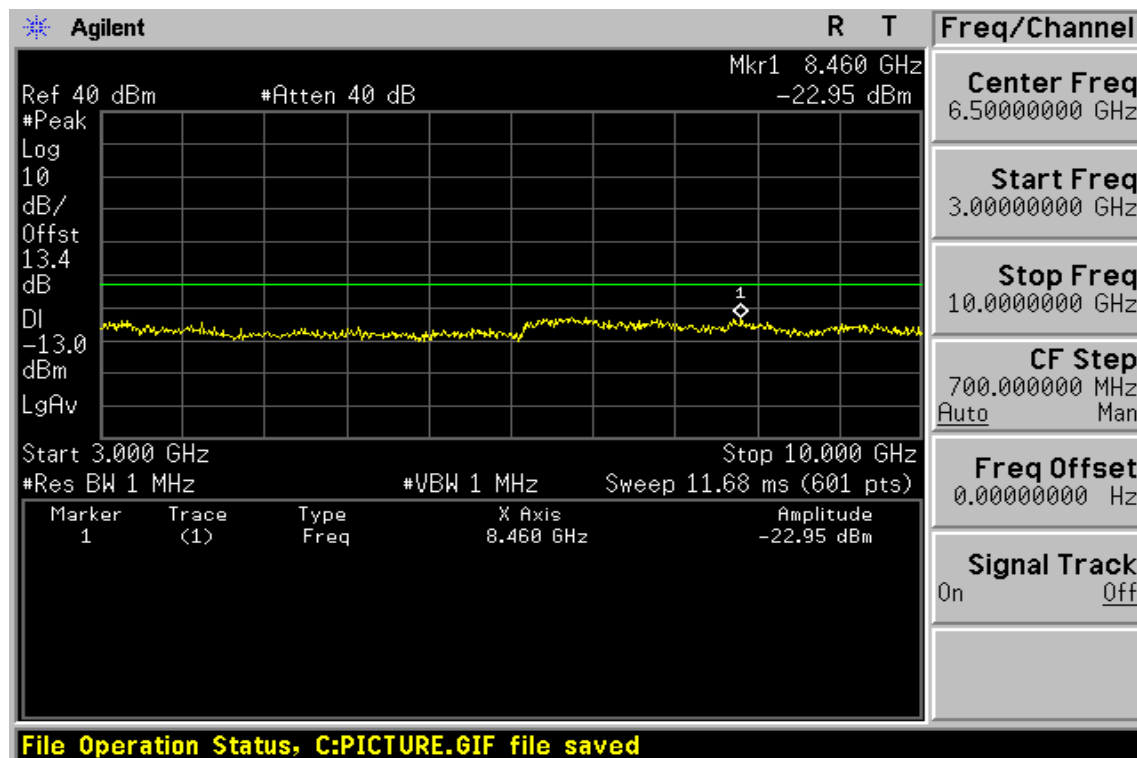
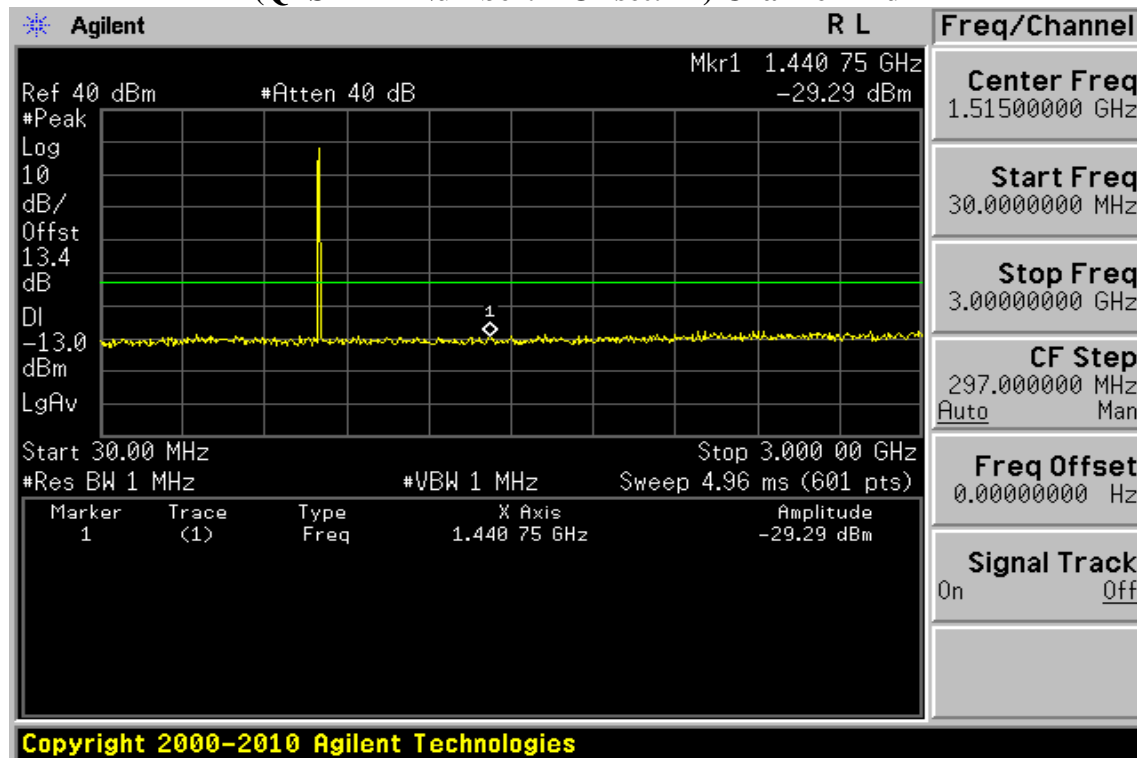
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**Figure 9-147: Out of Band emission at antenna terminals –3MHz BW LTE-Band 26
(QPSK RB Number: 1 Offset: 14) Channel Mid**



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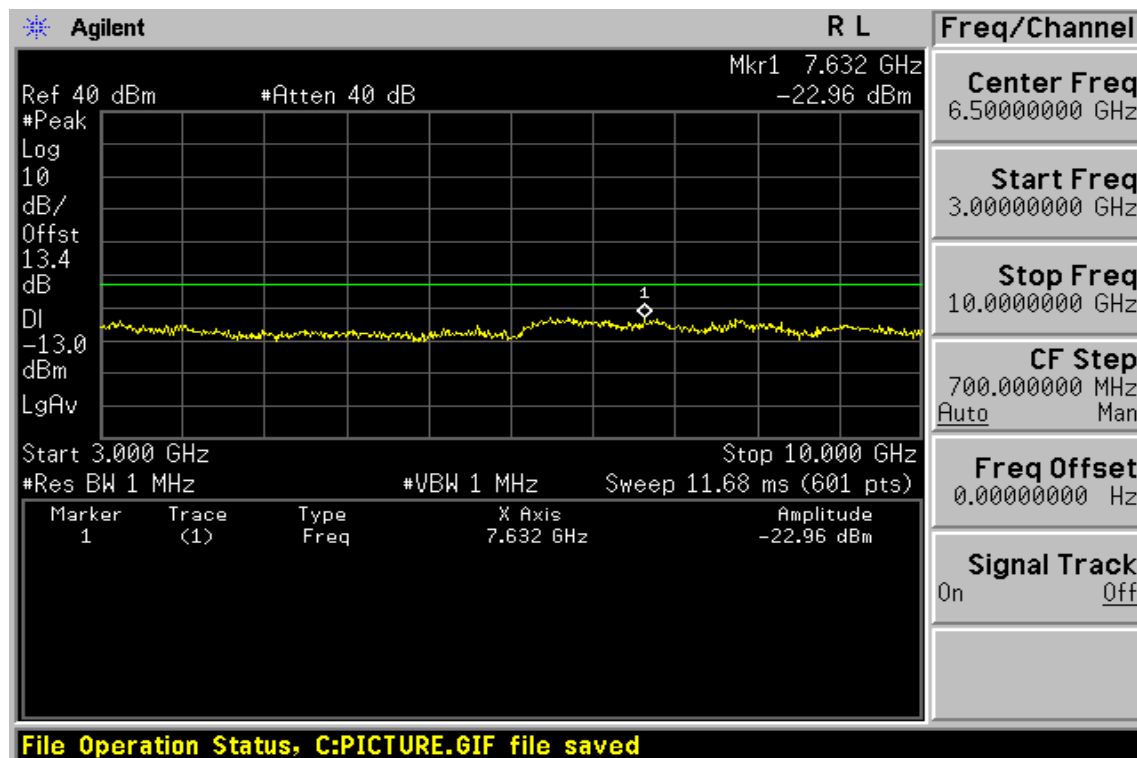
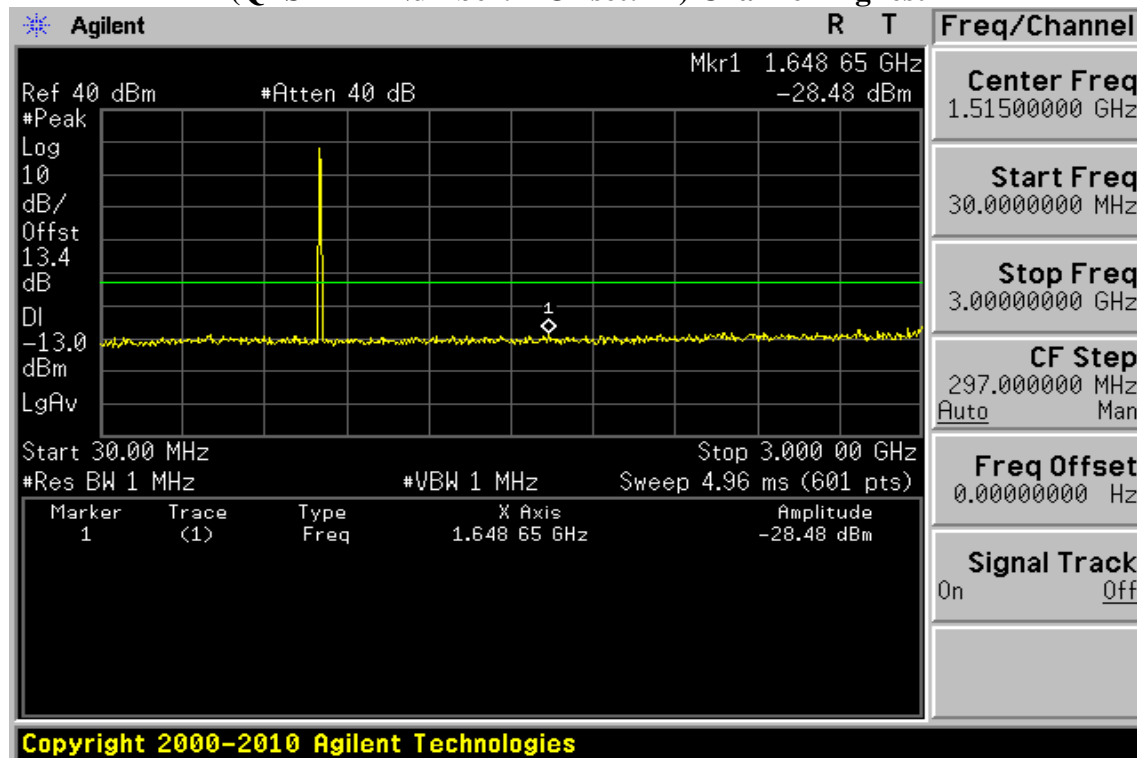
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**Figure 9-148: Out of Band emission at antenna terminals –3MHz BW LTE-Band 26
(QPSK RB Number: 1 Offset: 14) Channel Highest**



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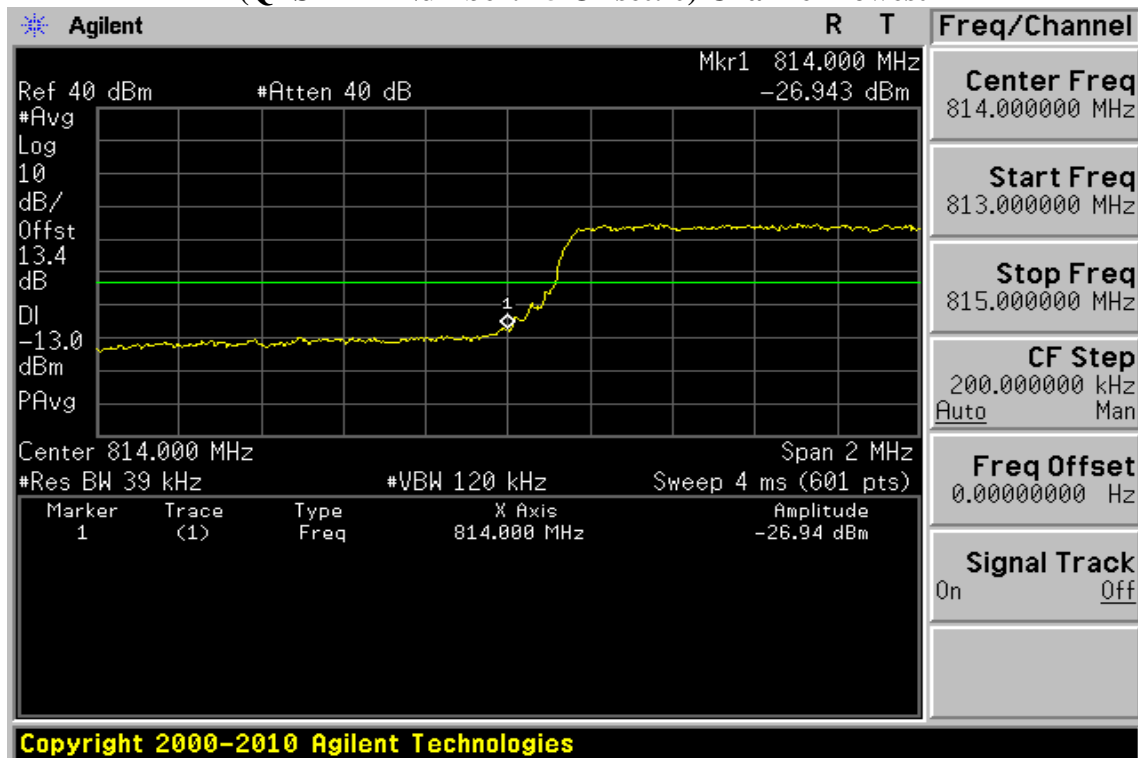
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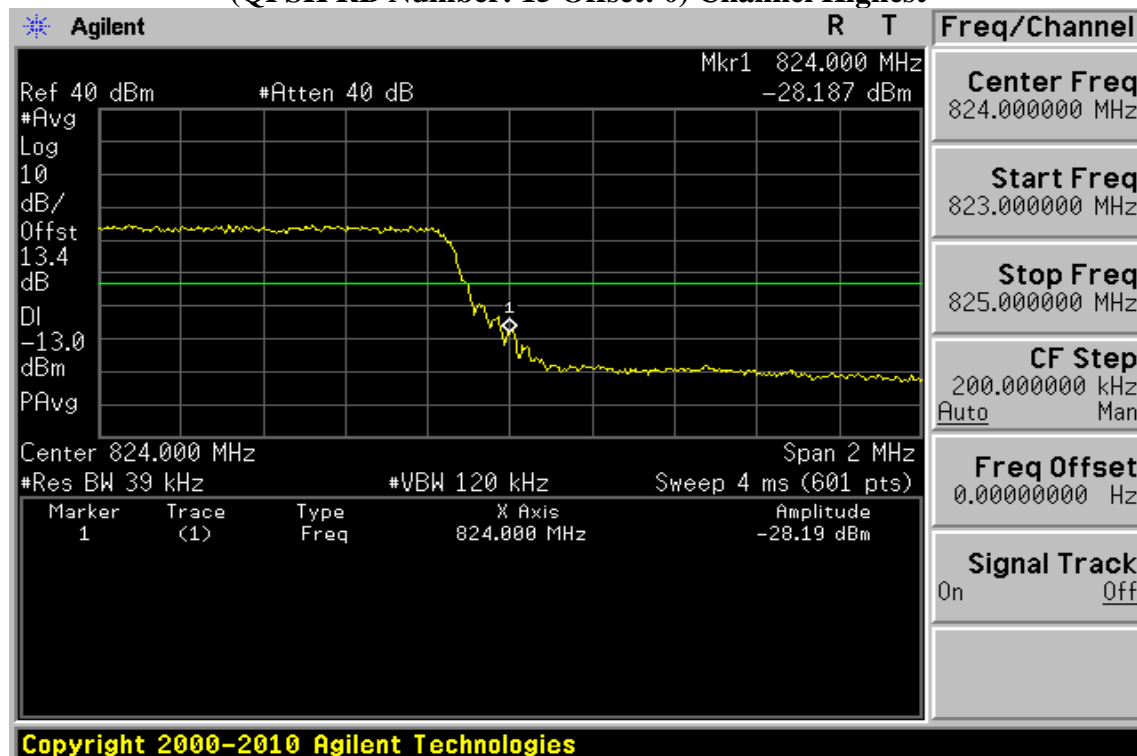
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**Figure 9-149: Band edge emission at antenna terminals – 3MHz BW LTE-Band 26
(QPSK RB Number: 15 Offset: 0) Channel Lowest**



**Figure 9-150: Band edge emission at antenna terminals –3MHz BW LTE-Band 26
(QPSK RB Number: 15 Offset: 0) Channel Highest**



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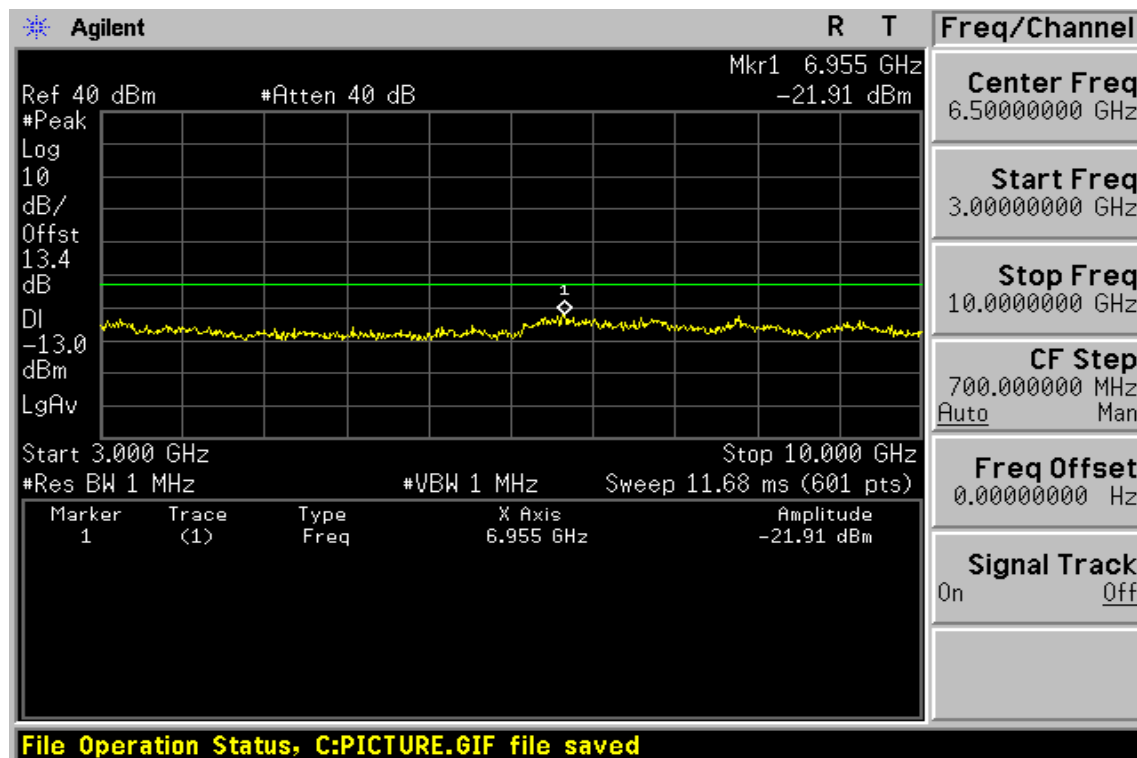
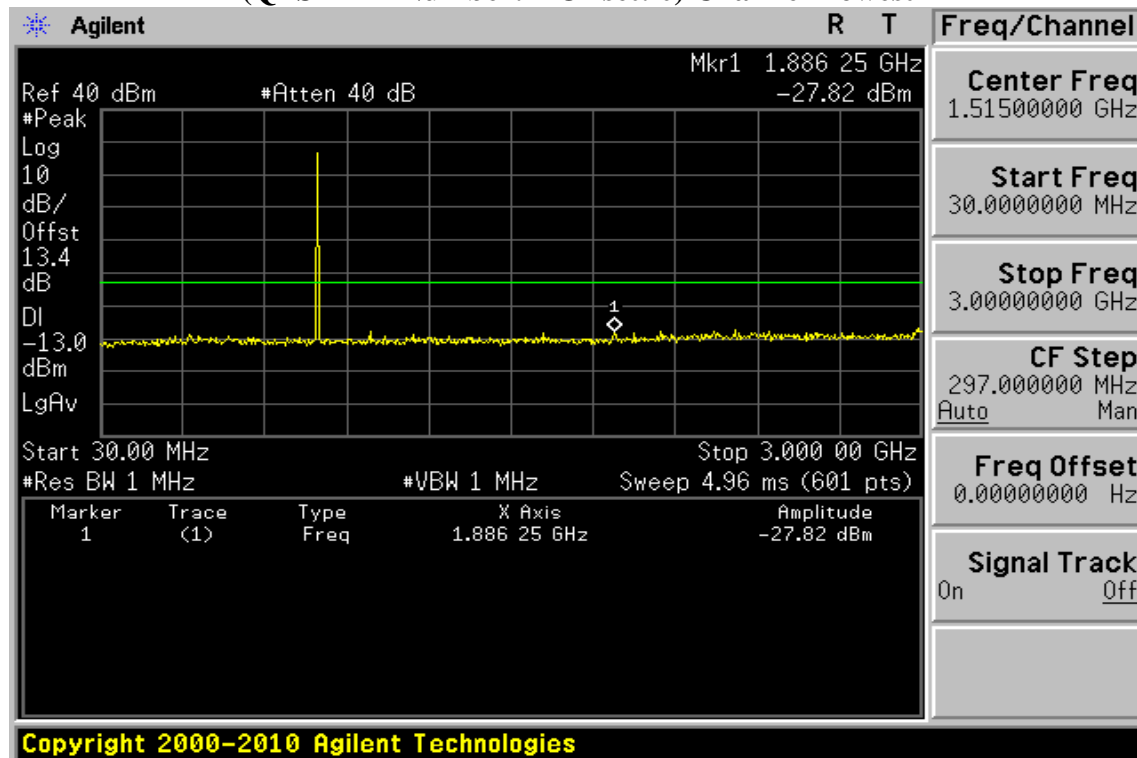
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**Figure 9-151: Out of Band emission at antenna terminals – 5MHz BW LTE-Band 26
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



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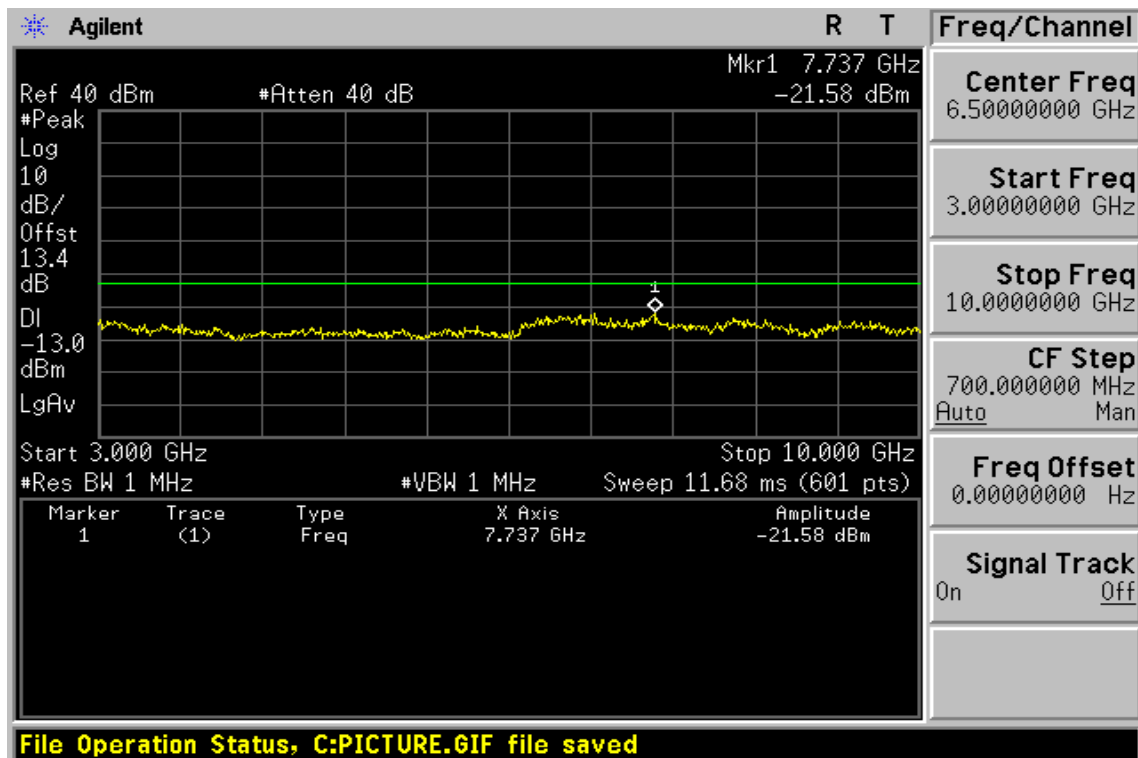
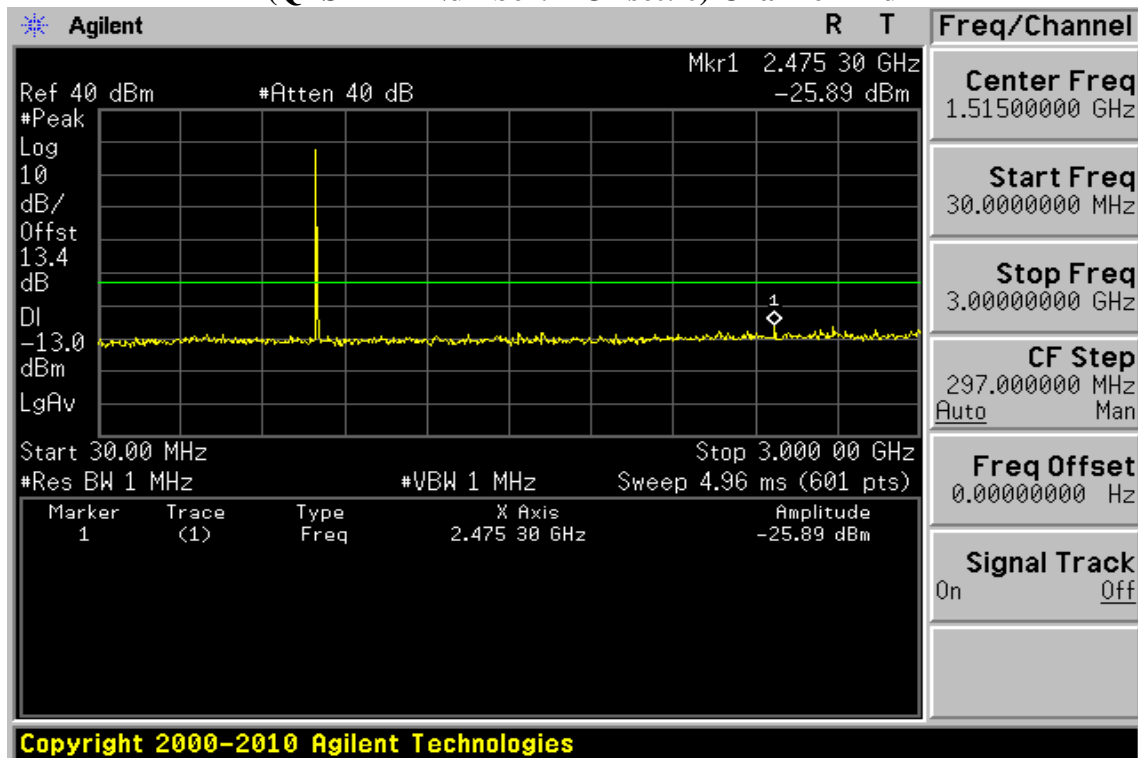
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**Figure 9-152: Out of Band emission at antenna terminals – 5MHz BW LTE-Band 26
(QPSK RB Number: 1 Offset: 0) Channel Mid**



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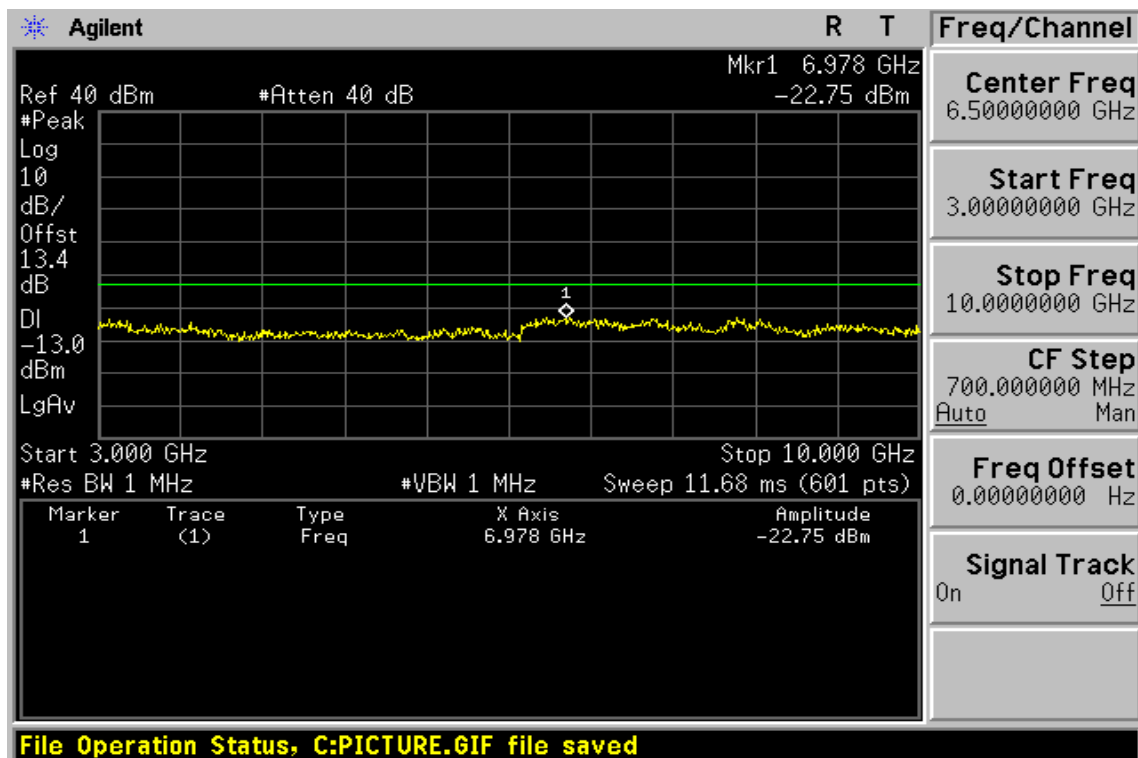
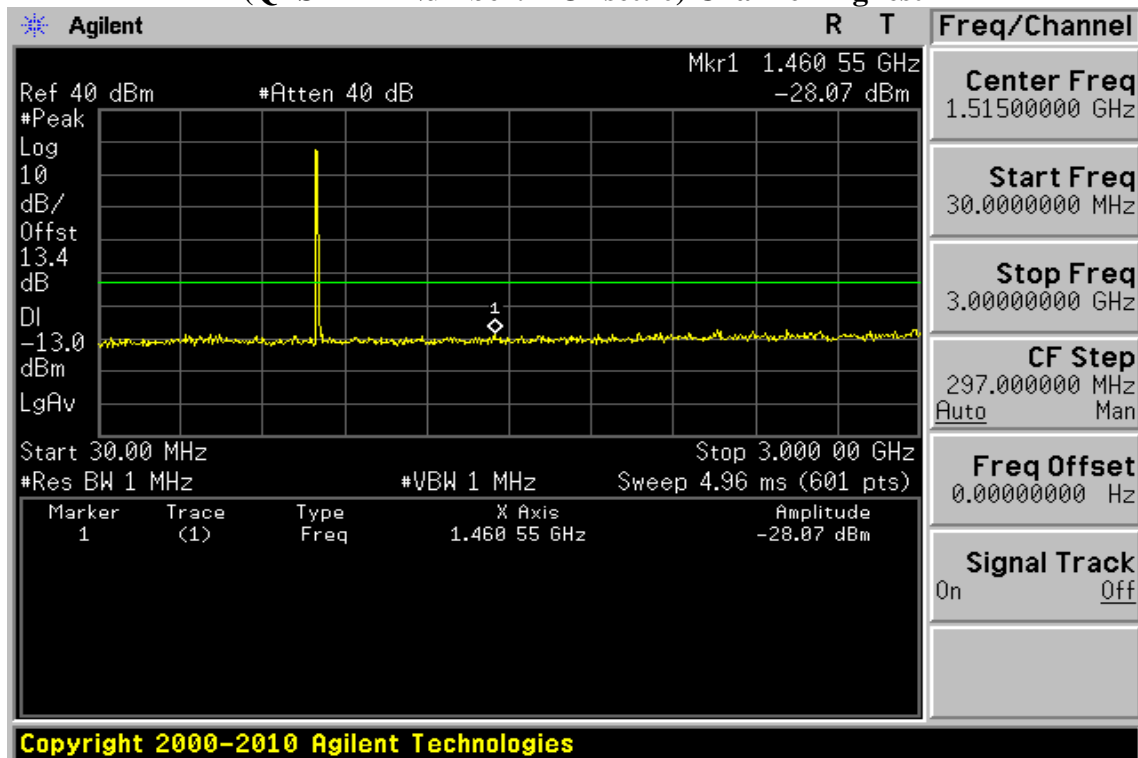
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**Figure 9-153: Out of Band emission at antenna terminals –5MHz BW LTE-Band 26
(QPSK RB Number: 1 Offset: 0) Channel Highest**



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Figure 9-154: Band edge emission at antenna terminals – 5MHz BW LTE-Band 26 (QPSK RB Number: 1 Offset: 0) Channel Lowest

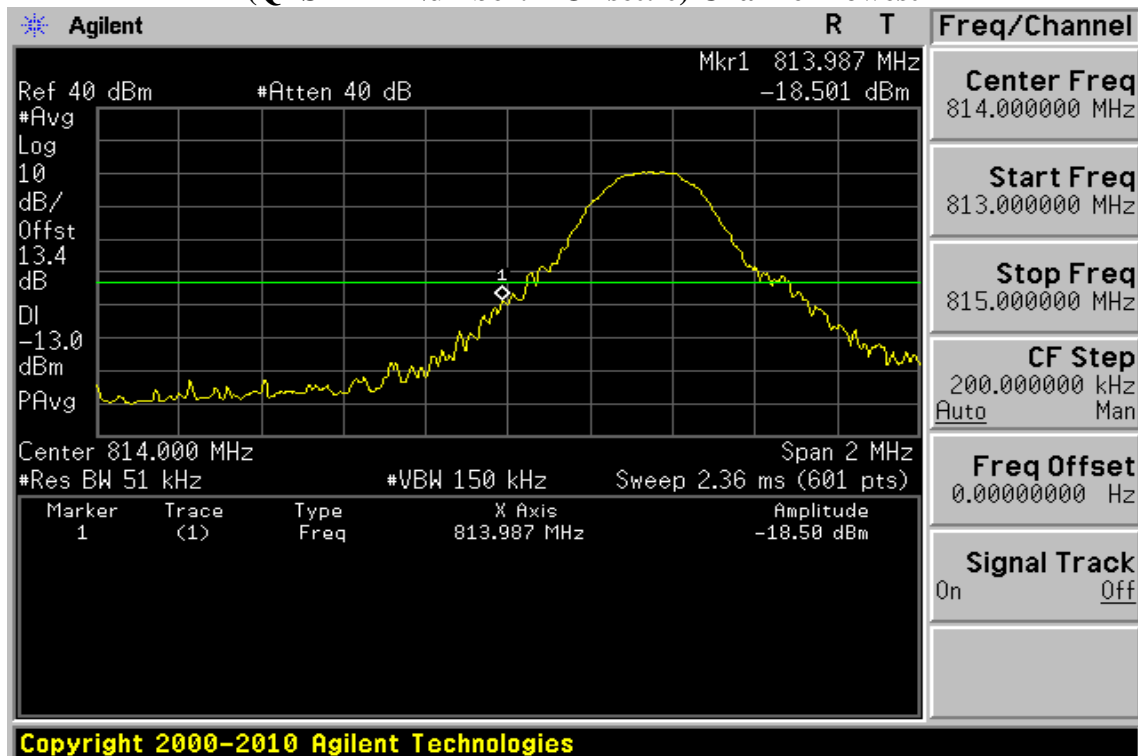
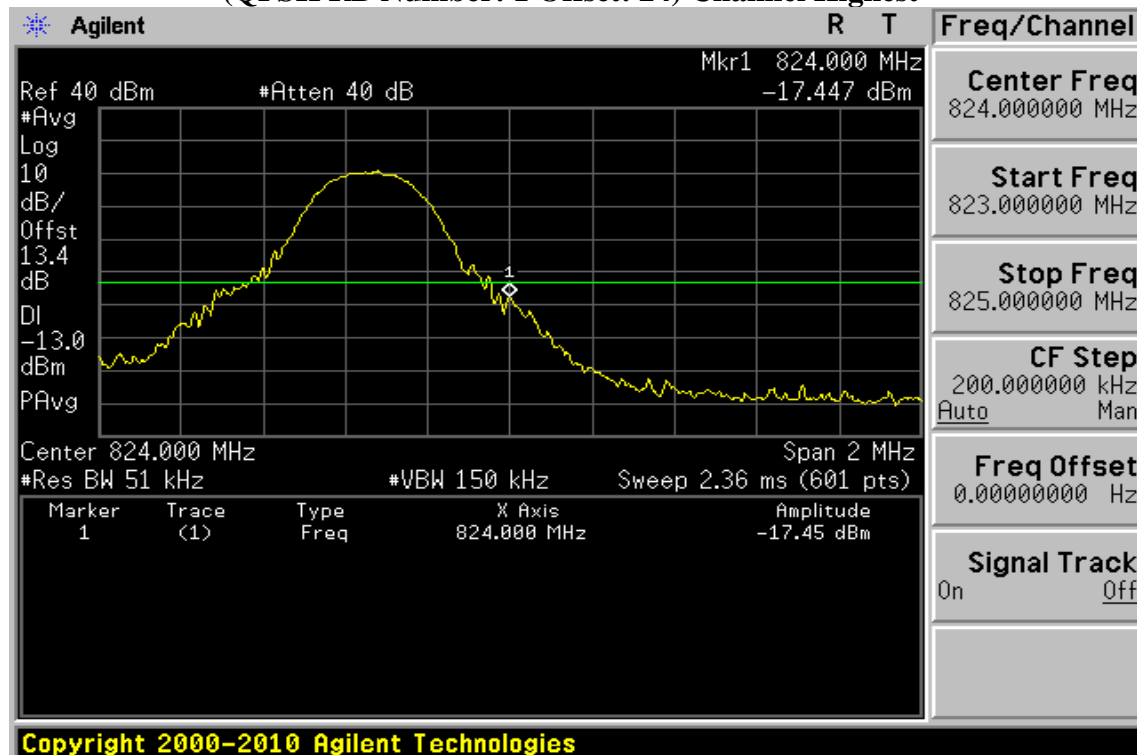


Figure 9-155: Band edge emission at antenna terminals –5MHz BW LTE-Band 26 (QPSK RB Number: 1 Offset: 24) Channel Highest



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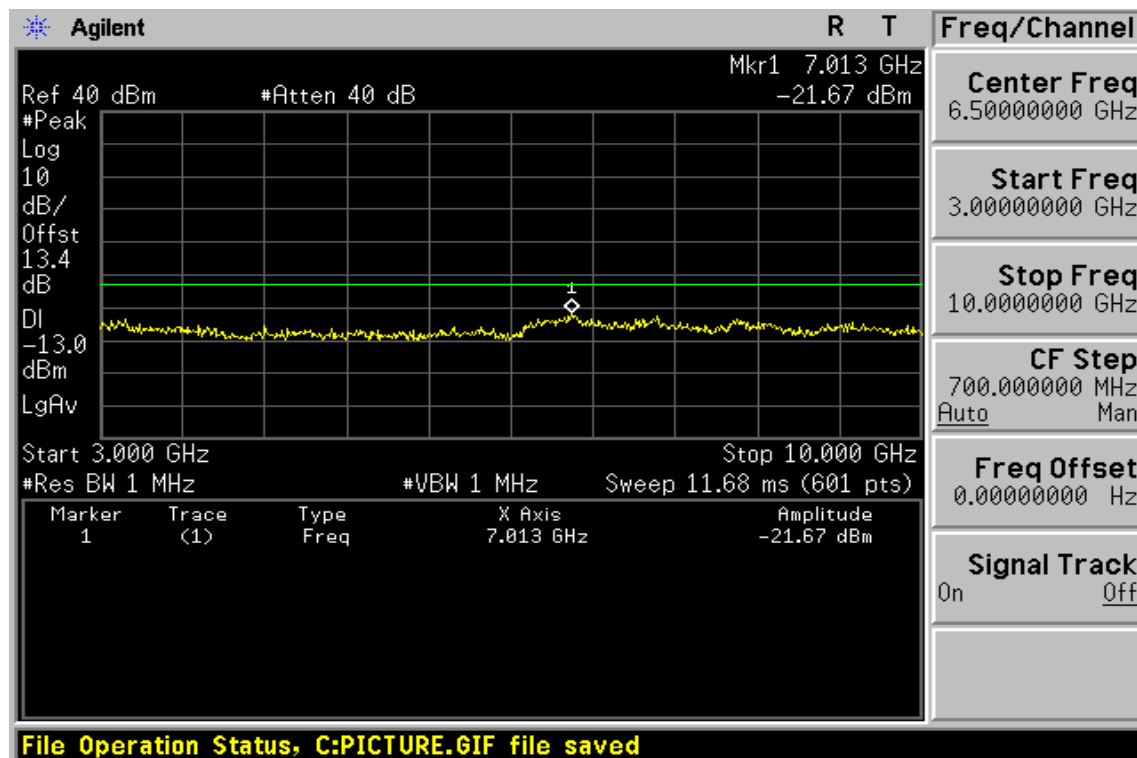
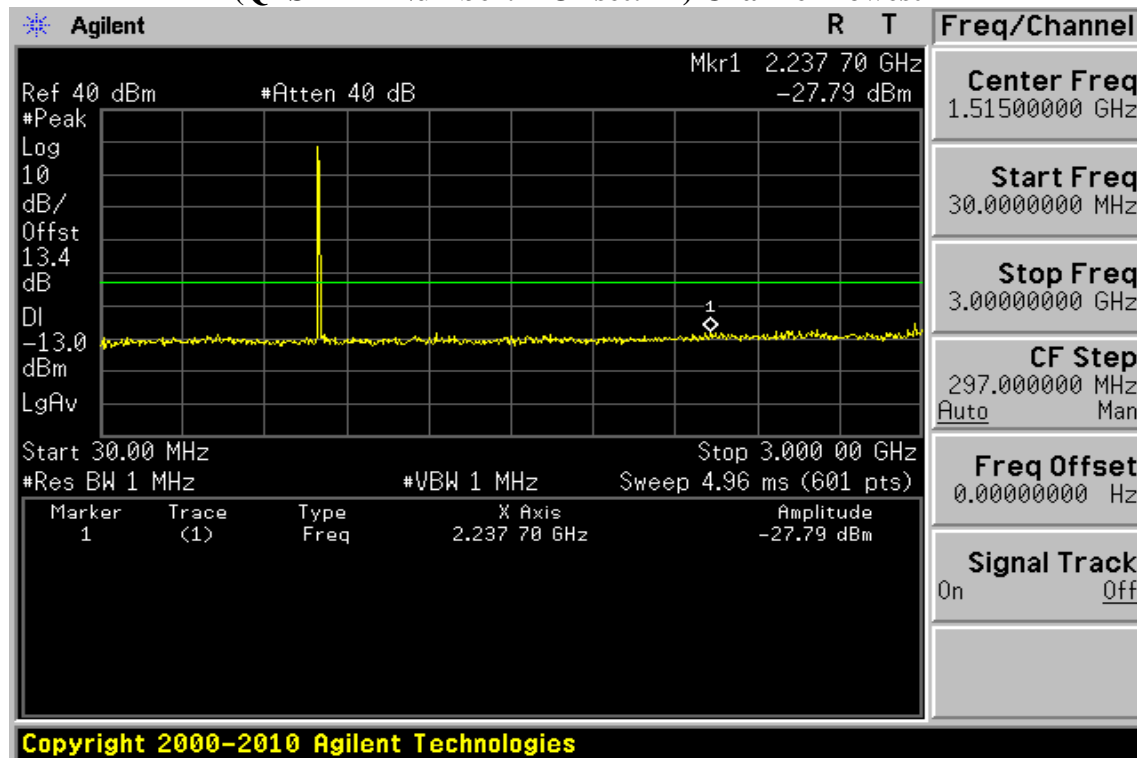
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**Figure 9-156: Out of Band emission at antenna terminals – 5MHz BW LTE-Band 26
(QPSK RB Number: 1 Offset: 24) Channel Lowest**



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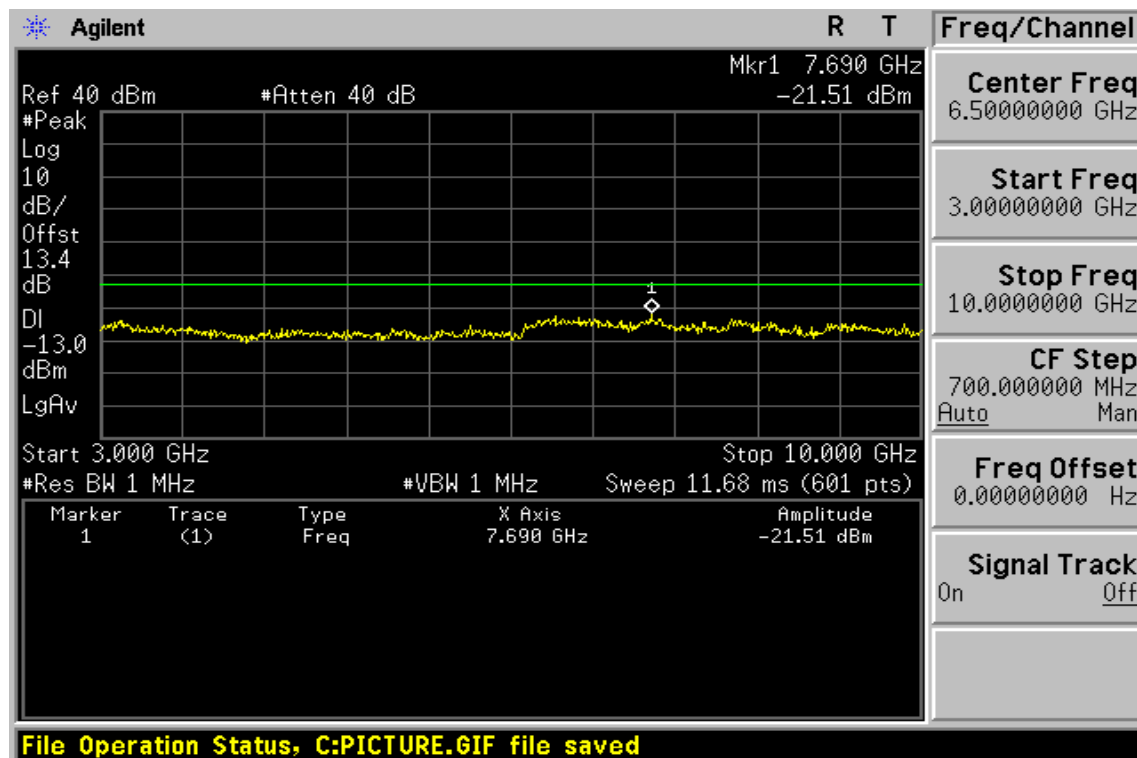
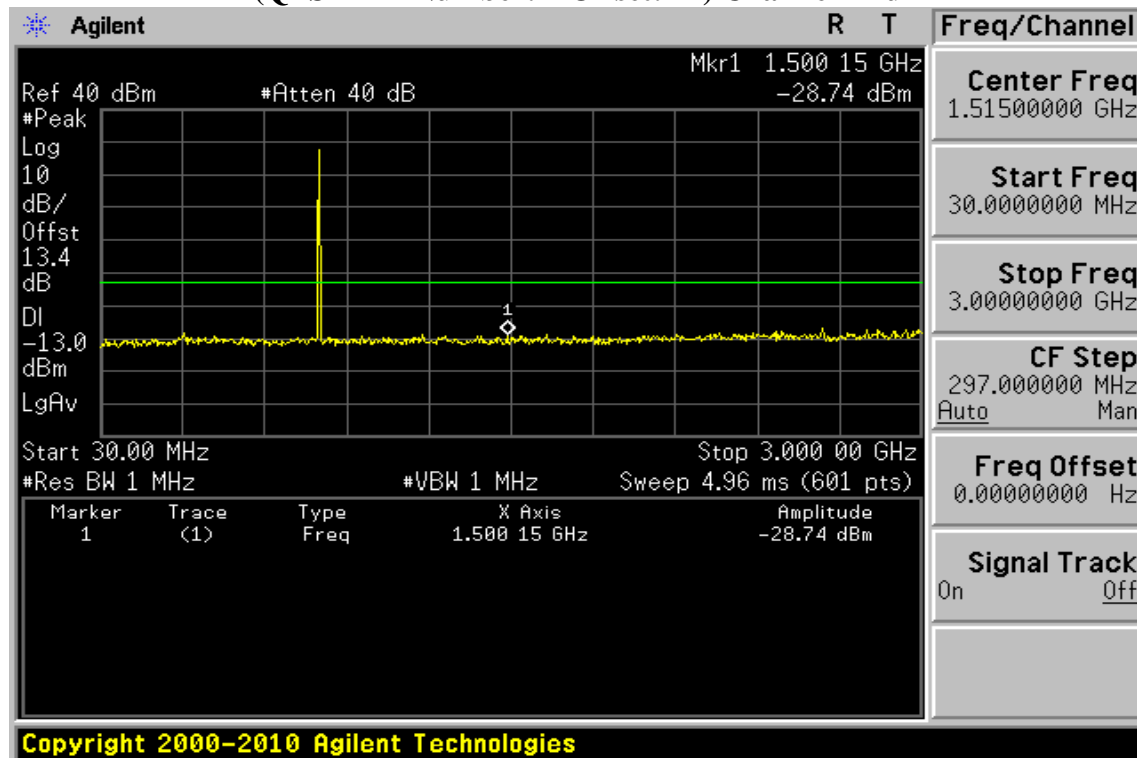
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**Figure 9-157: Out of Band emission at antenna terminals –5MHz BW LTE-Band 26
(QPSK RB Number: 1 Offset: 24) Channel Mid**



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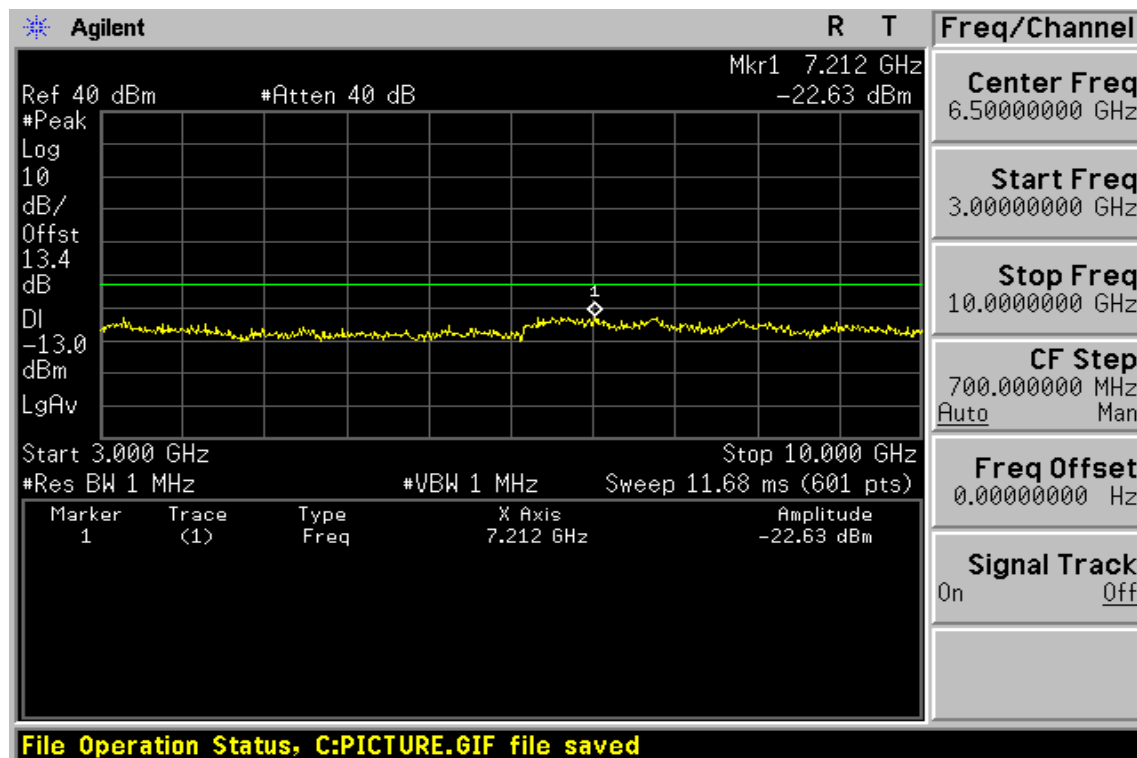
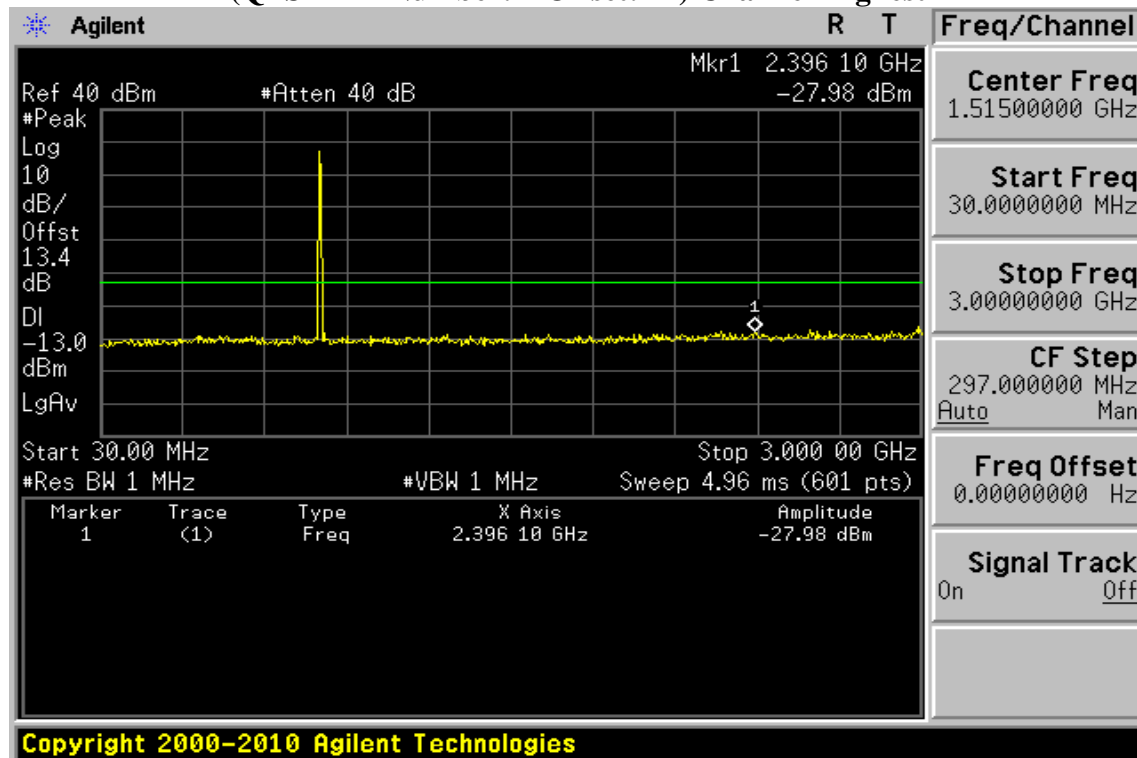
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**Figure 9-158: Out of Band emission at antenna terminals –5MHz BW LTE-Band 26
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Figure 9-159: Band edge emission at antenna terminals – 5MHz BW LTE-Band 26 (QPSK RB Number: 25 Offset: 0) Channel Lowest

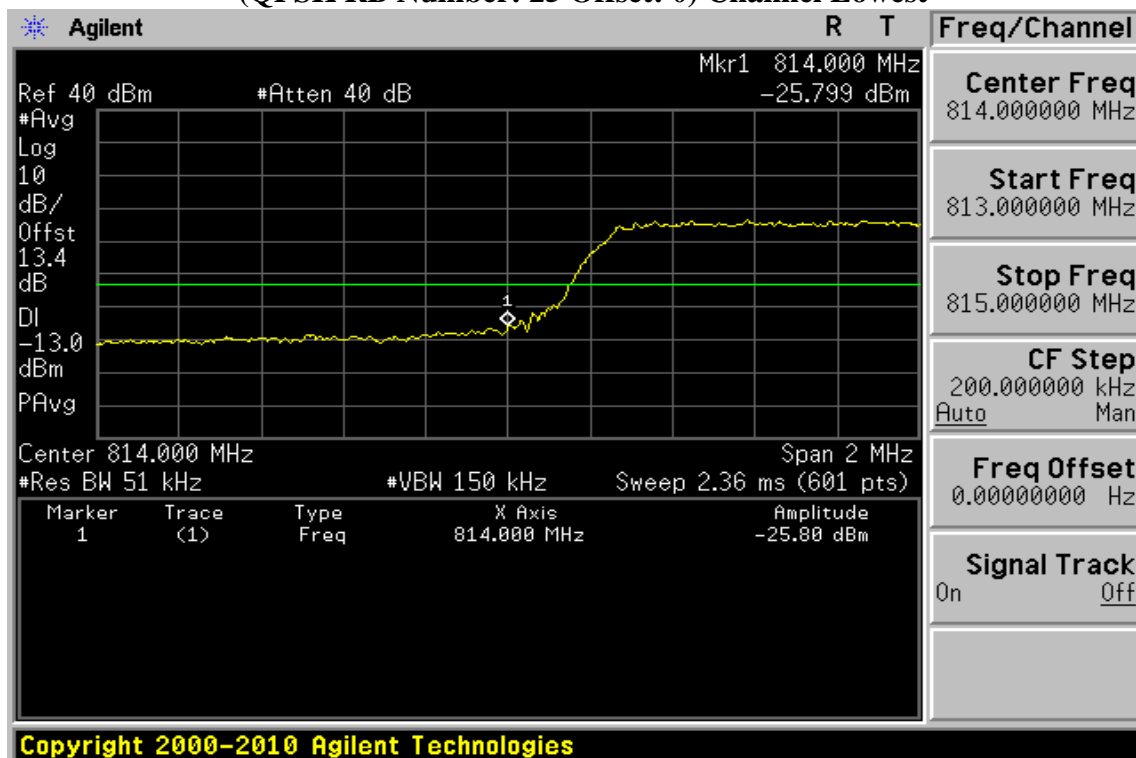
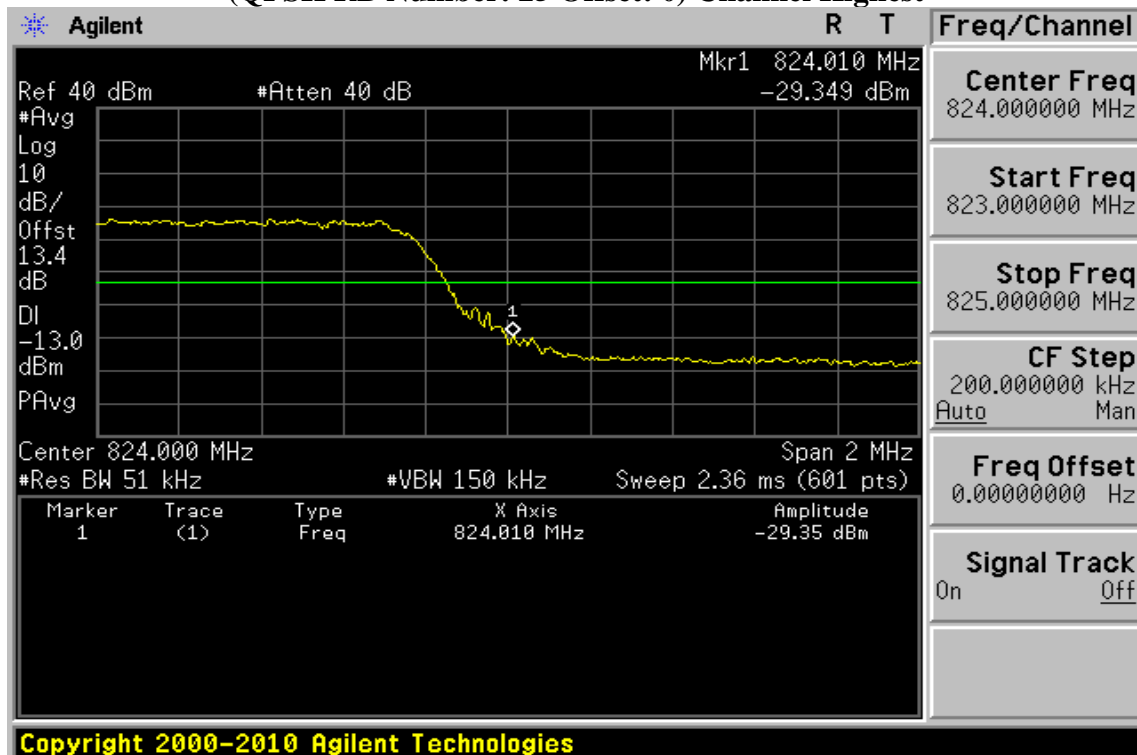


Figure 9-160: Band edge emission at antenna terminals –5MHz BW LTE-Band 26 (QPSK RB Number: 25 Offset: 0) Channel Highest



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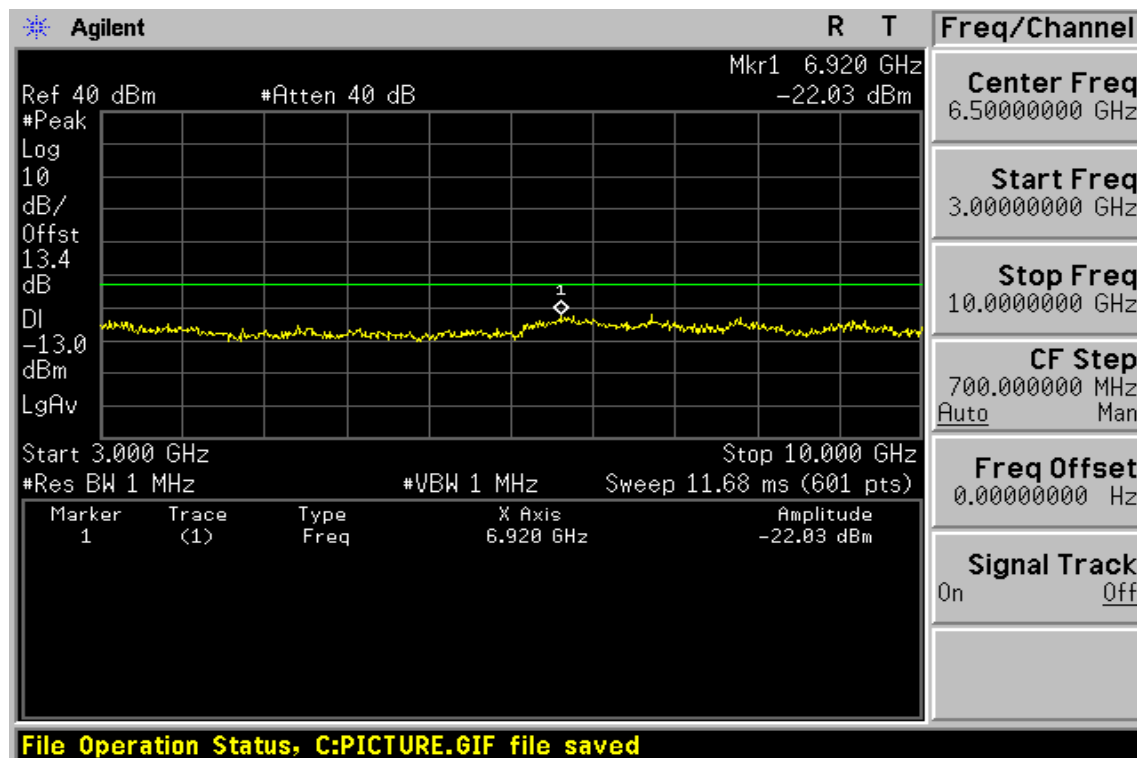
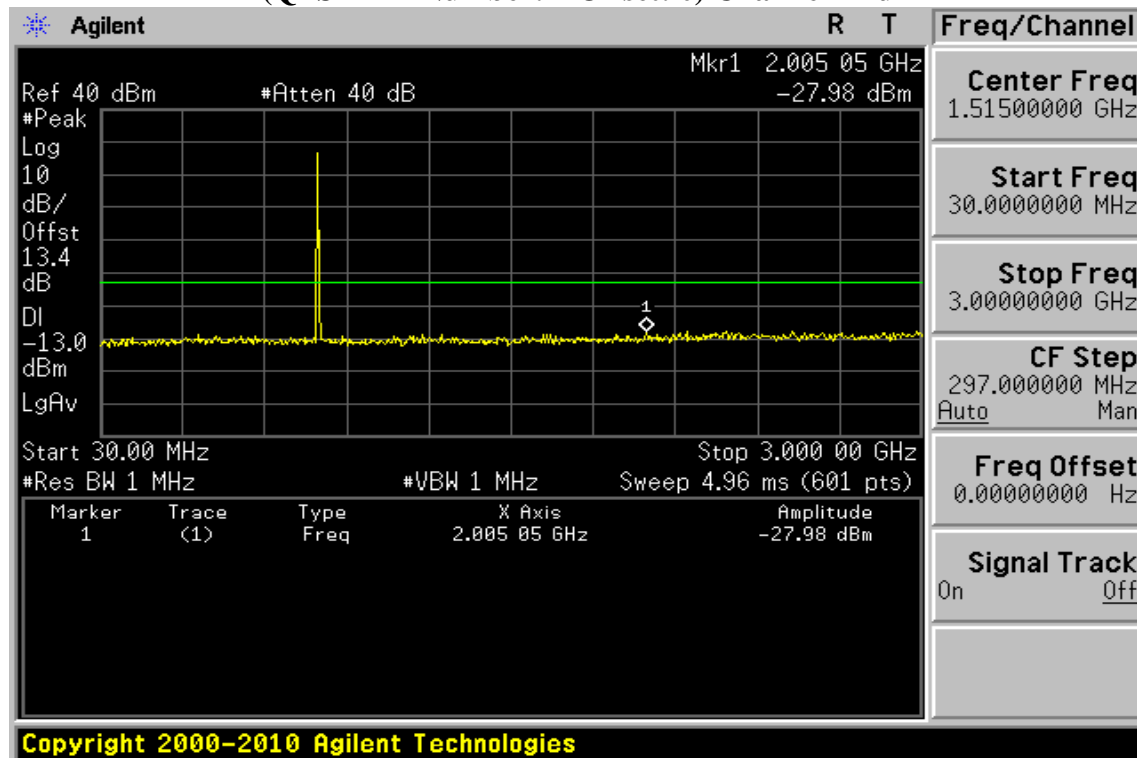
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**Figure 9-161: Out of Band emission at antenna terminals – 10MHz BW LTE-Band 26
(QPSK RB Number: 1 Offset: 0) Channel Mid**



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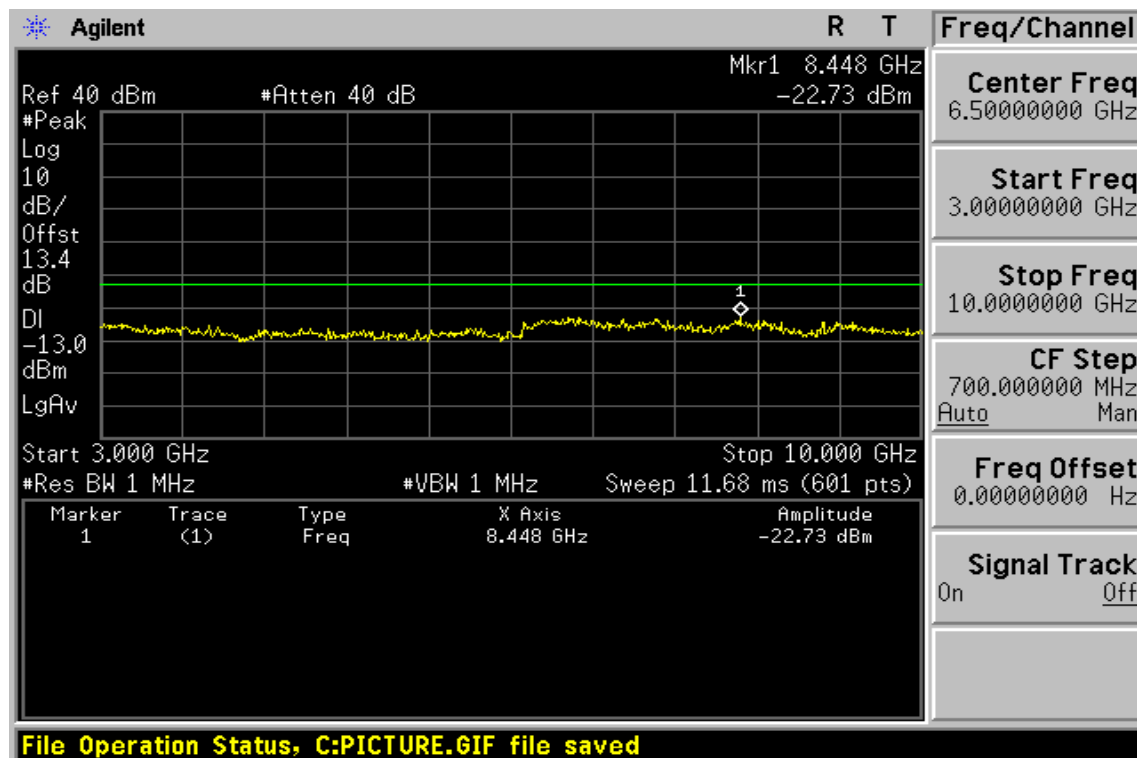
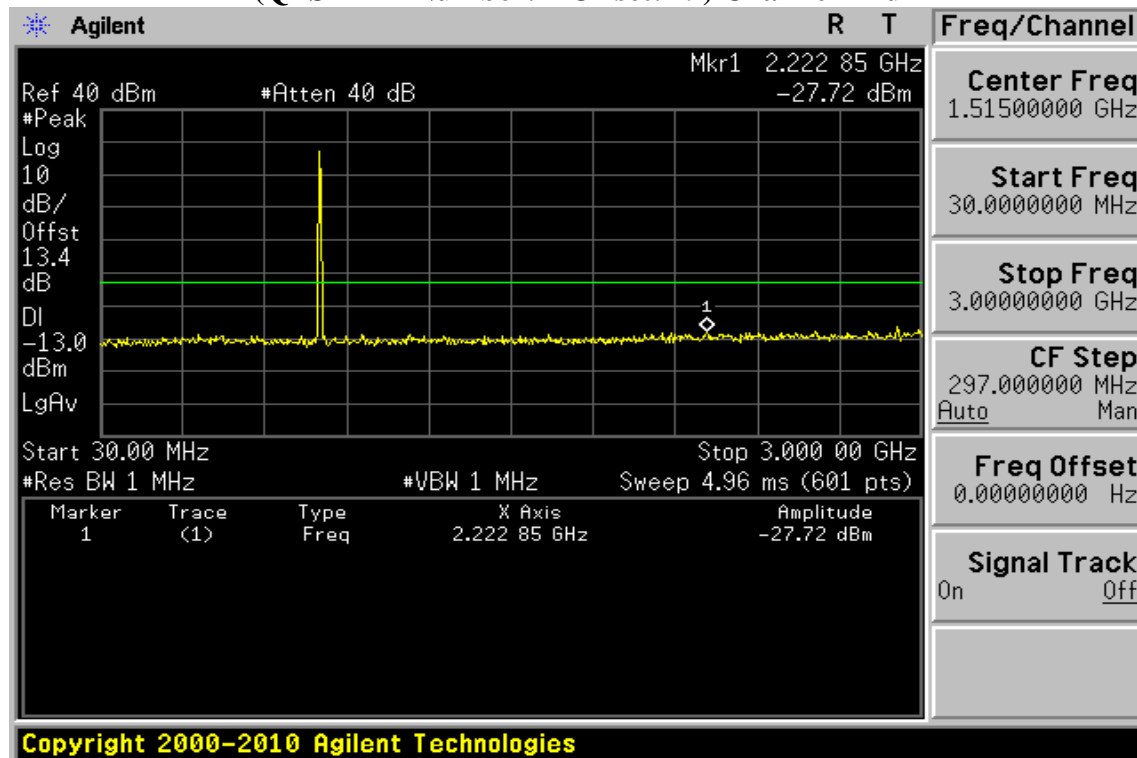
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**Figure 9-162: Out of Band emission at antenna terminals – 10MHz BW LTE-Band 26
(QPSK RB Number: 1 Offset: 49) Channel Mid**



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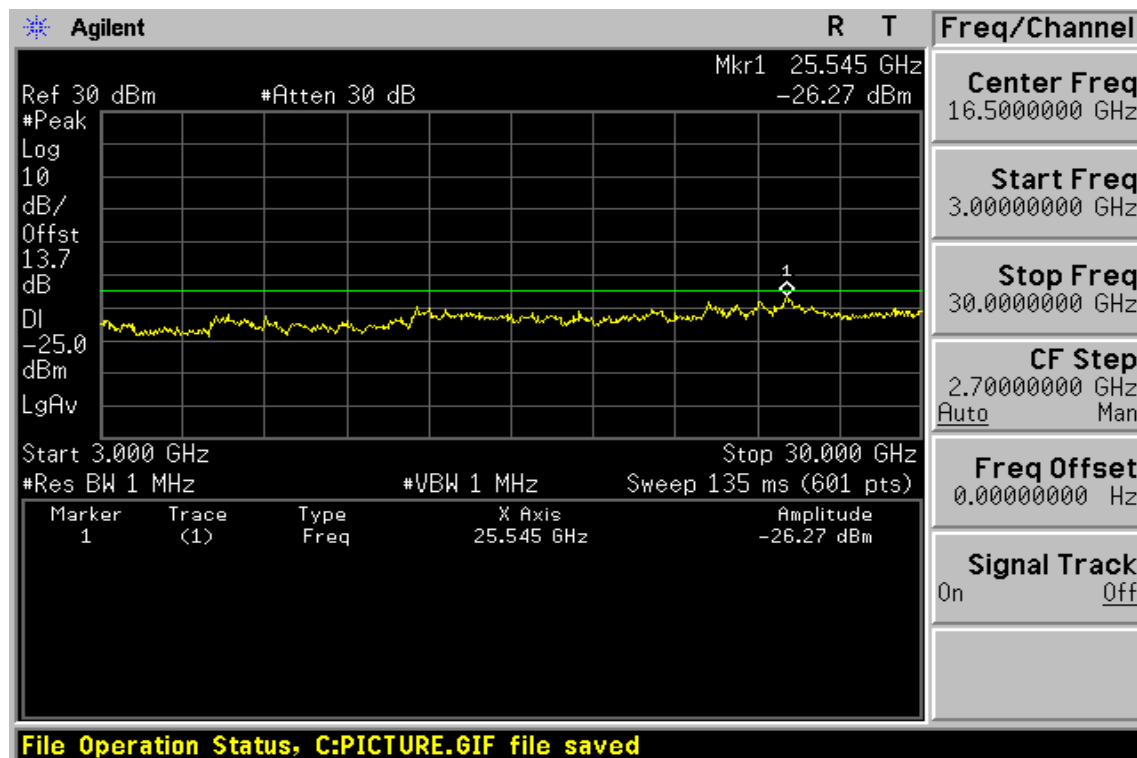
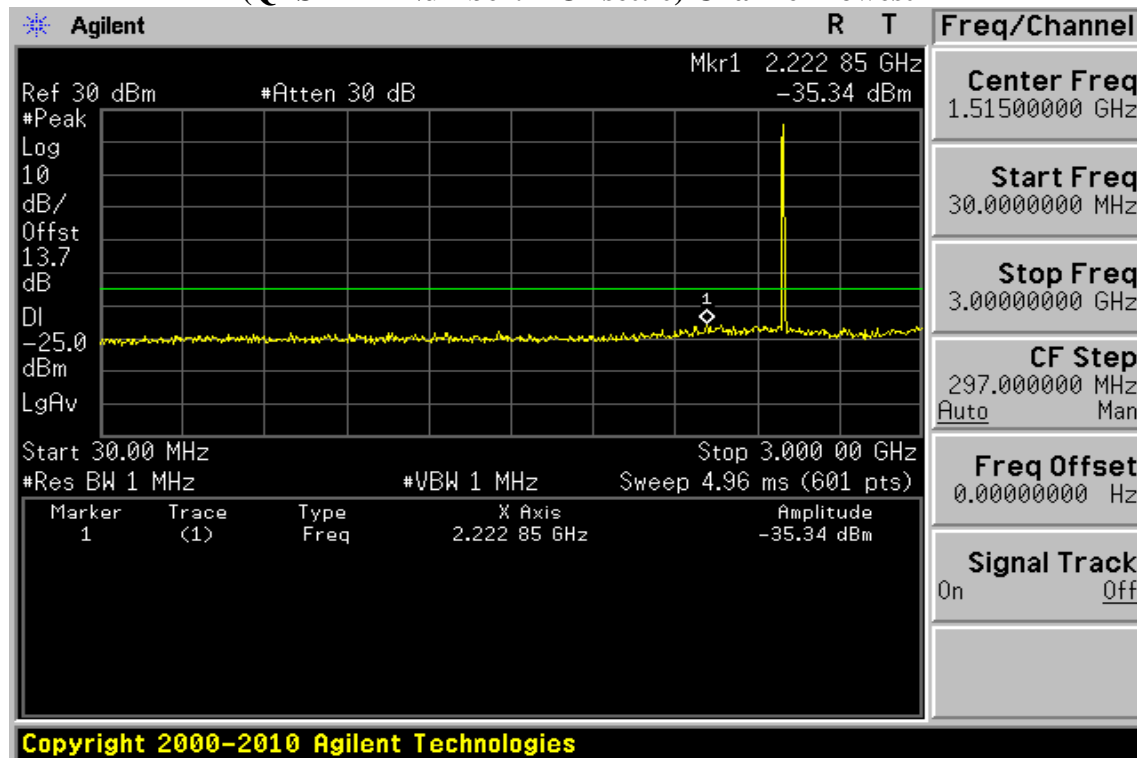
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**Figure 9-163: Out of Band emission at antenna terminals – 5MHz BW LTE-Band 41
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



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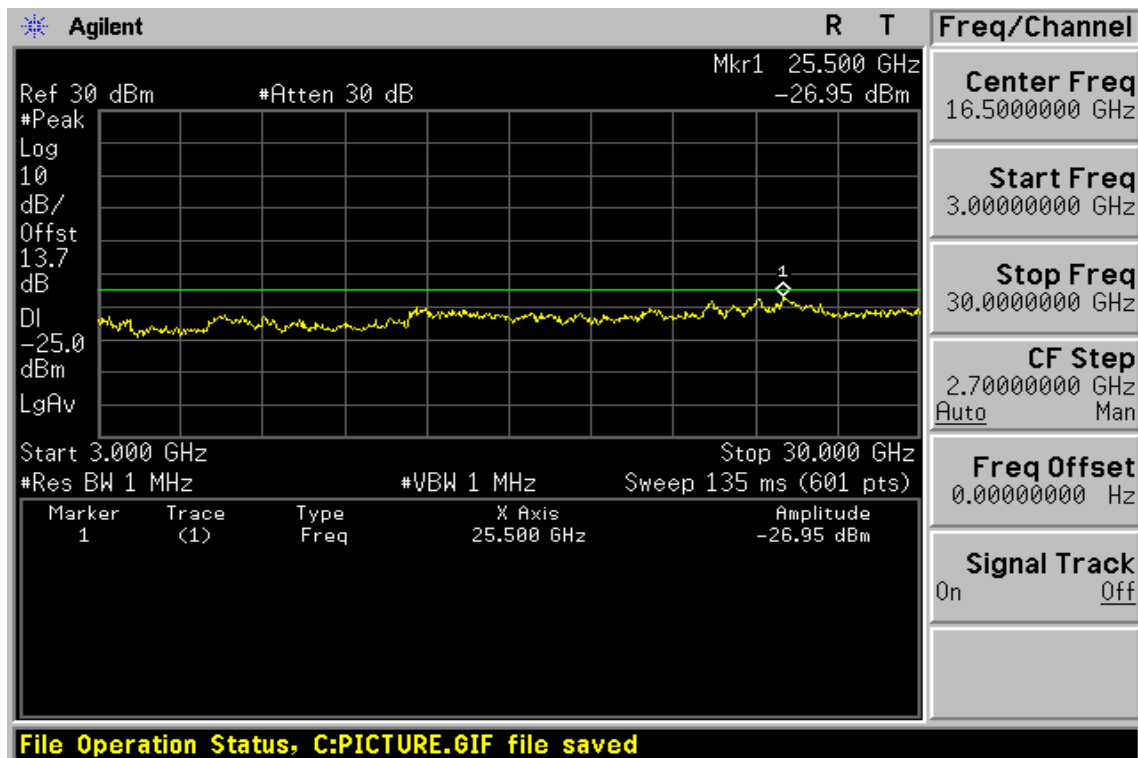
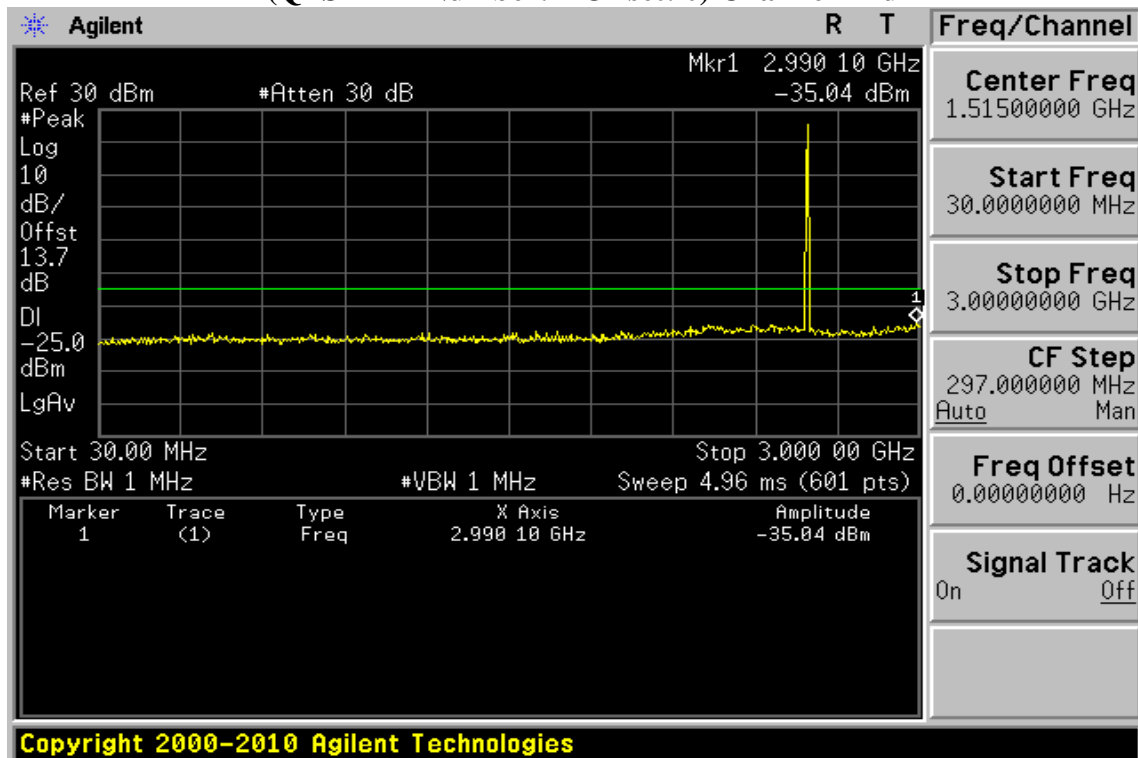
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**Figure 9-164: Out of Band emission at antenna terminals –5MHz BW LTE-Band 41
(QPSK RB Number: 1 Offset: 0) Channel Mid**



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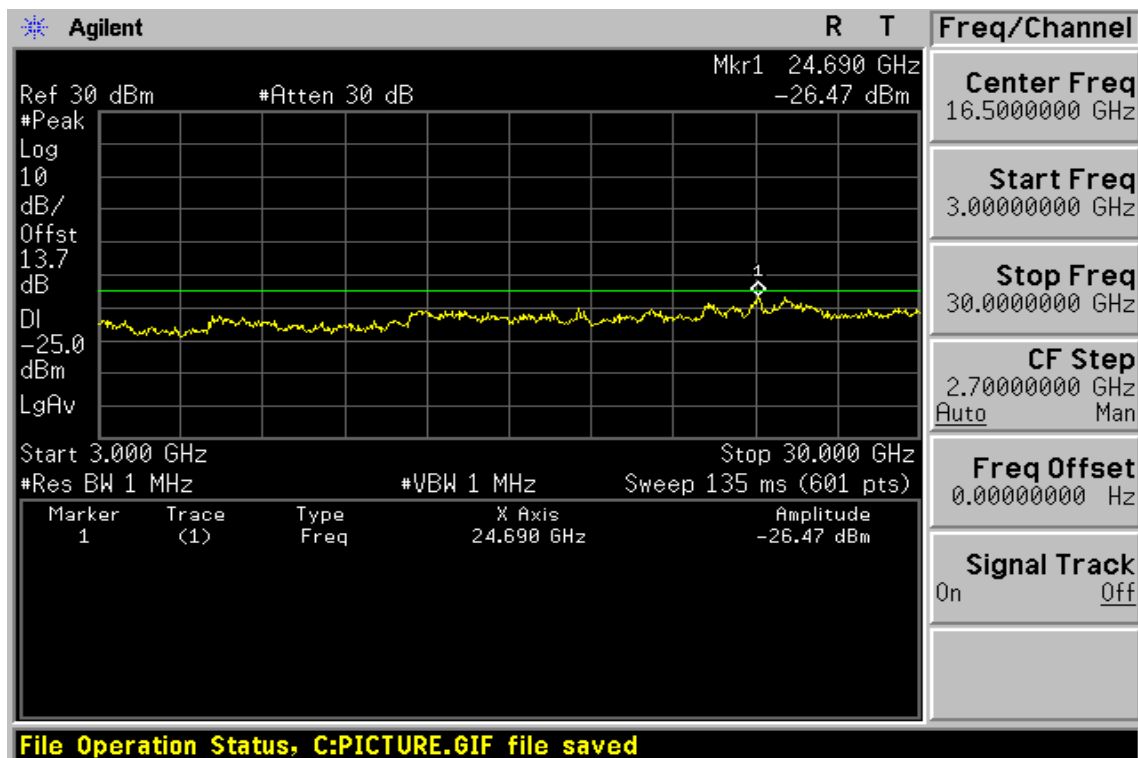
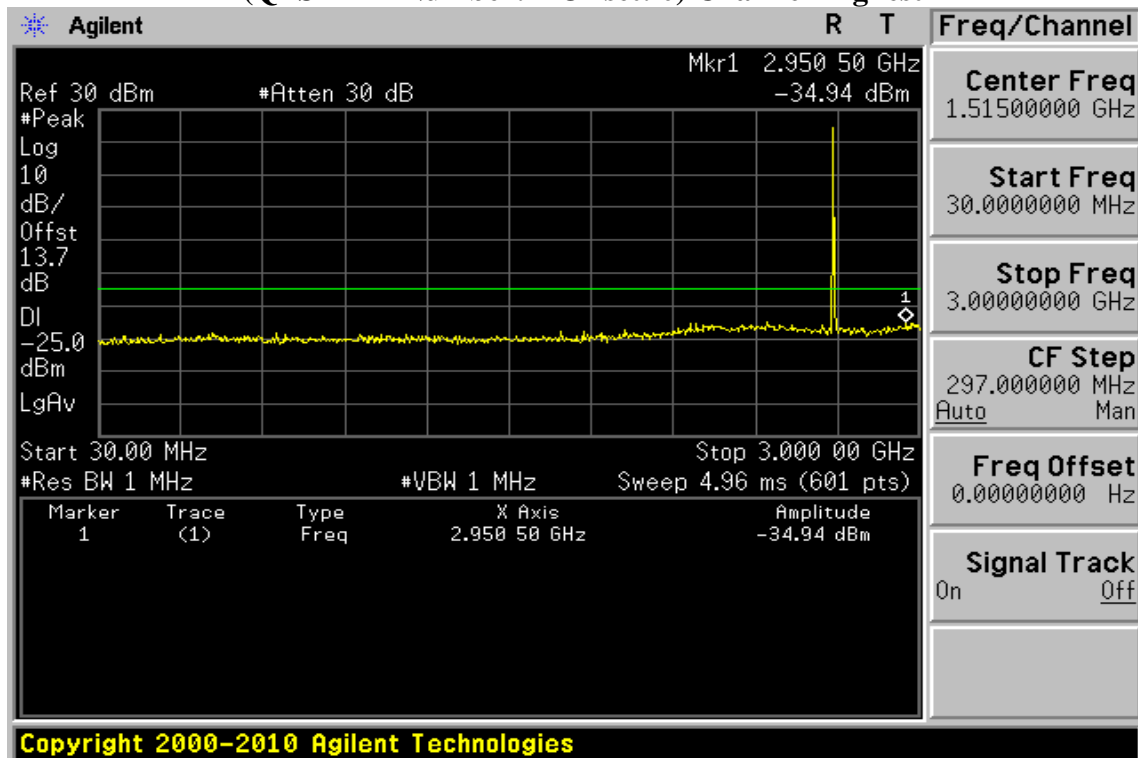
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**Figure 9-165: Out of Band emission at antenna terminals –5MHz BW LTE-Band 41
(QPSK RB Number: 1 Offset: 0) Channel Highest**



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Figure 9-166: Band edge emission at antenna terminals – 5MHz BW LTE-Band 41 (QPSK RB Number: 1 Offset: 0) Channel Lowest

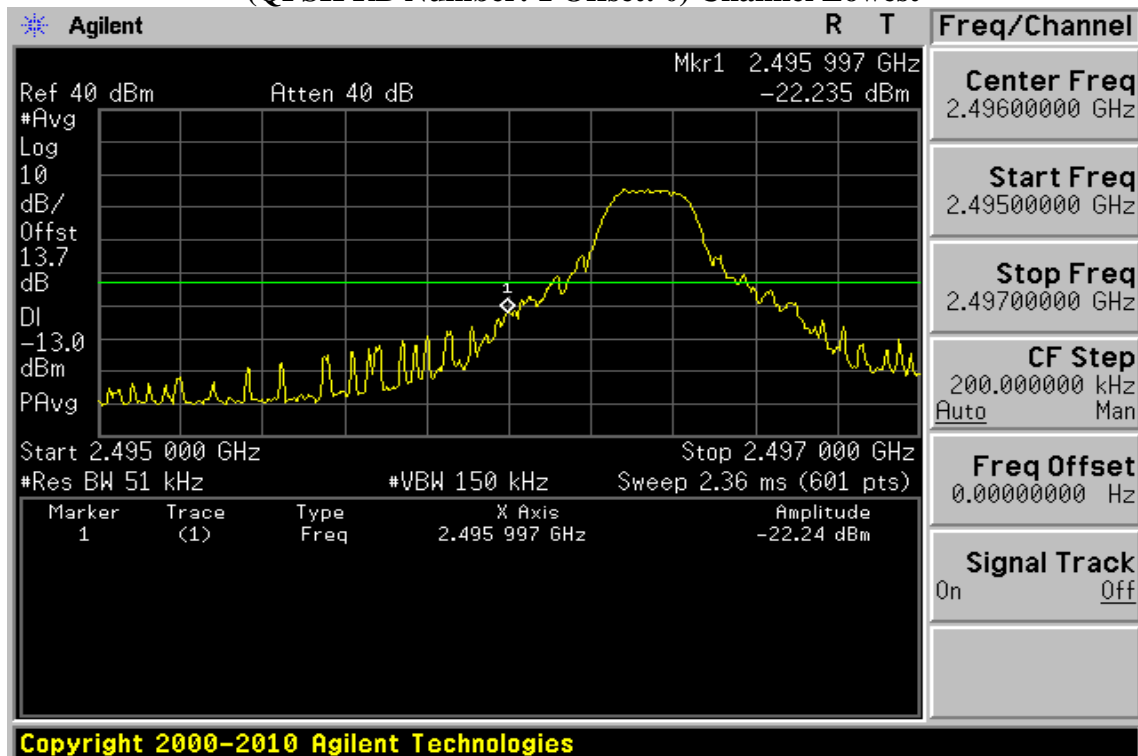
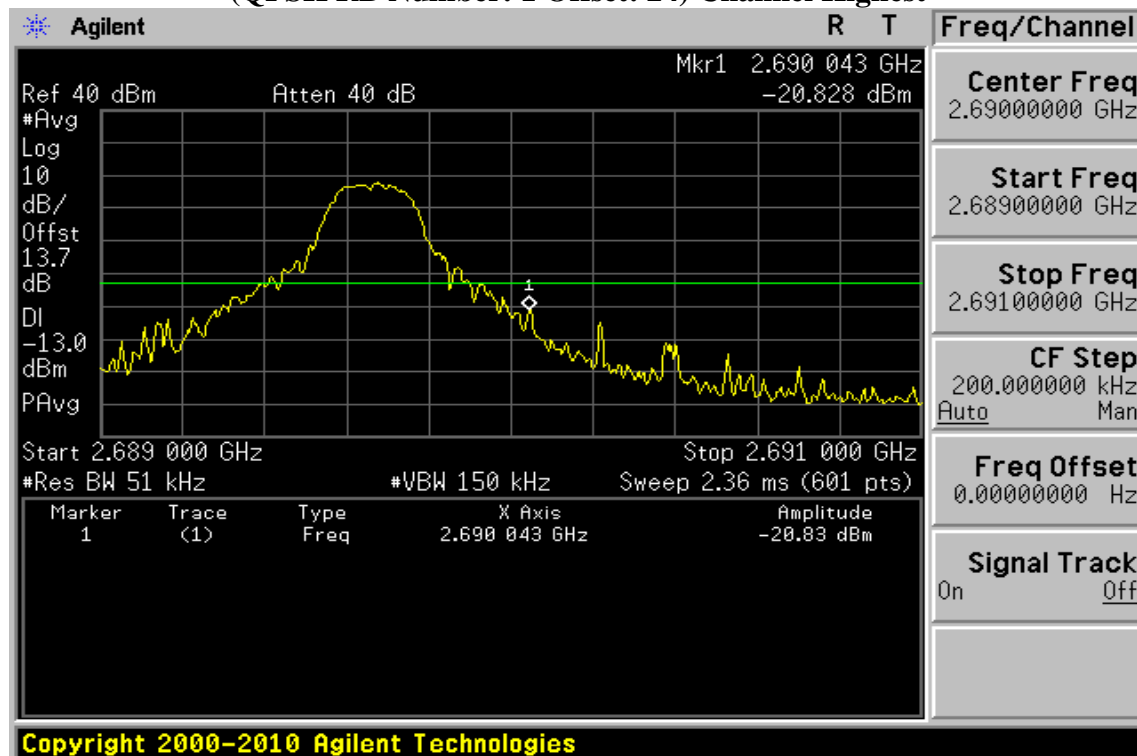


Figure 9-167: Band edge emission at antenna terminals – 5MHz BW LTE-Band 41 (QPSK RB Number: 1 Offset: 24) Channel Highest



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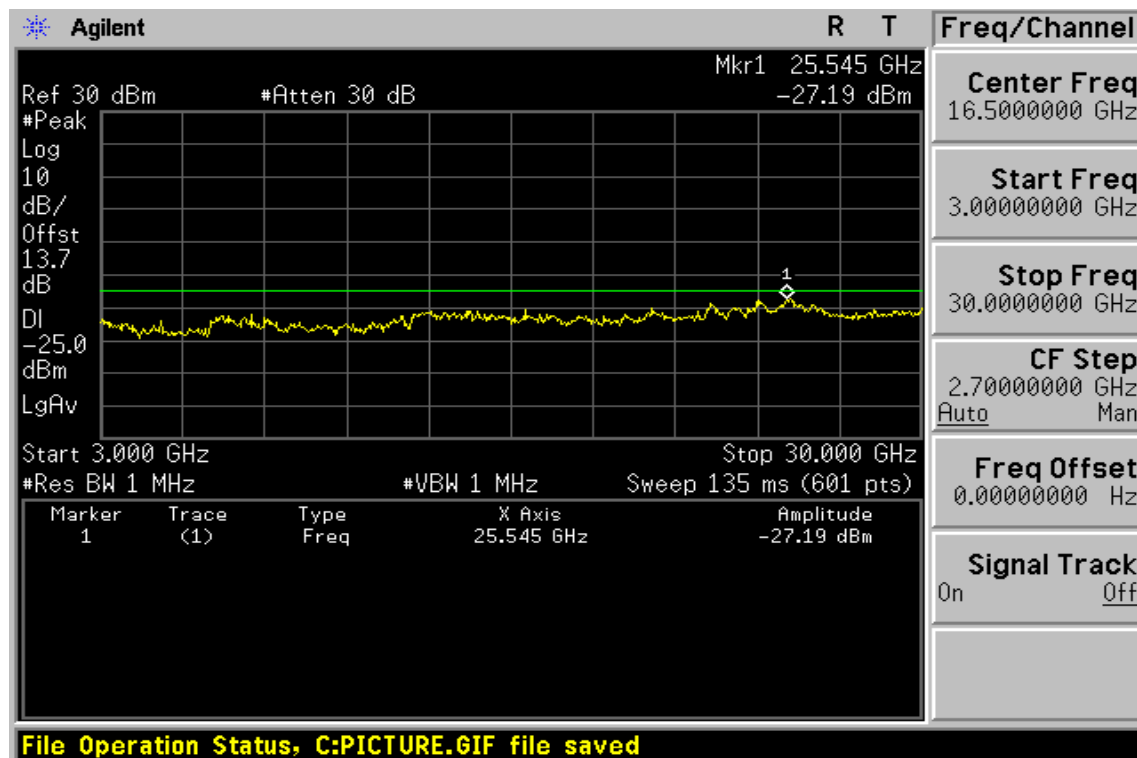
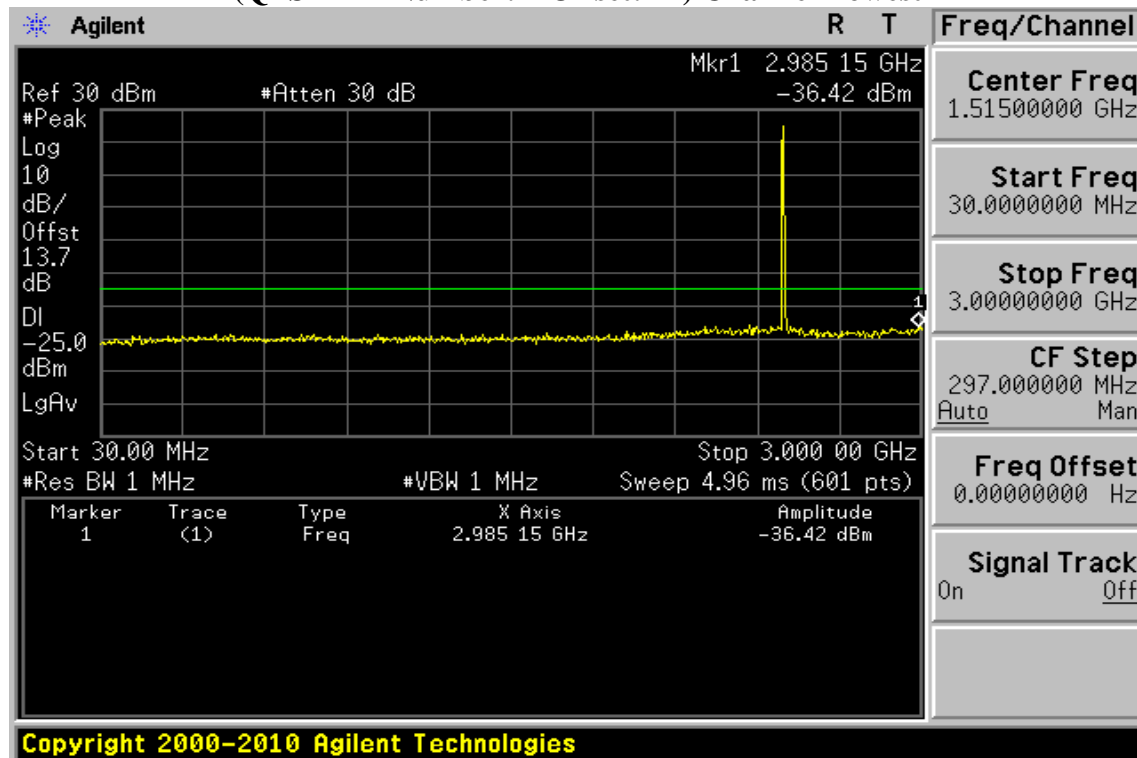
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**Figure 9-168: Out of Band emission at antenna terminals – 5MHz BW LTE-Band 41
(QPSK RB Number: 1 Offset: 24) Channel Lowest**



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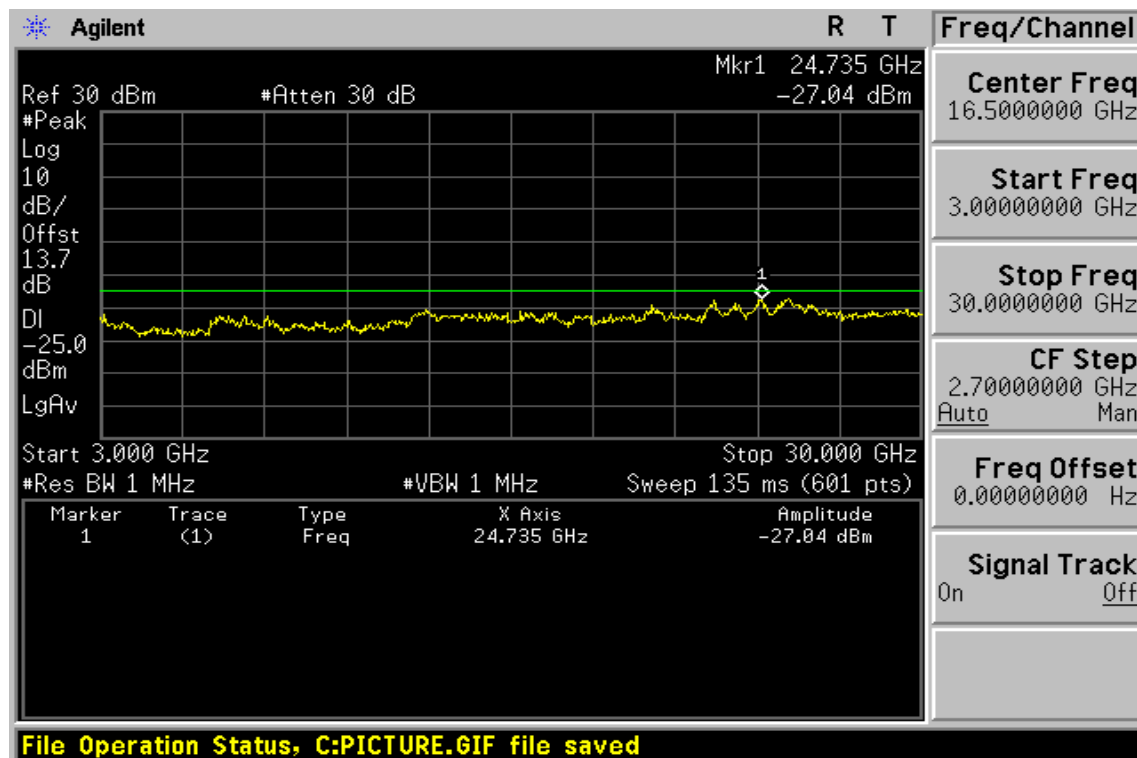
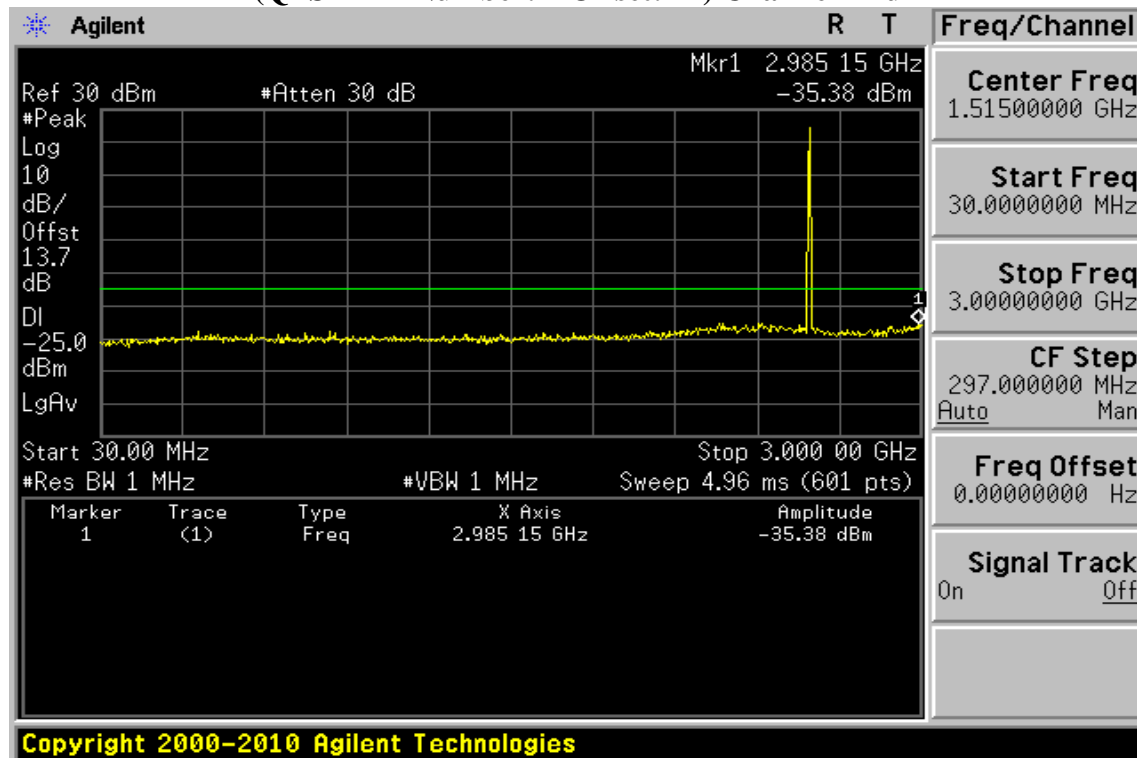
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**Figure 9-169: Out of Band emission at antenna terminals –5MHz BW LTE-Band 41
(QPSK RB Number: 1 Offset: 24) Channel Mid**



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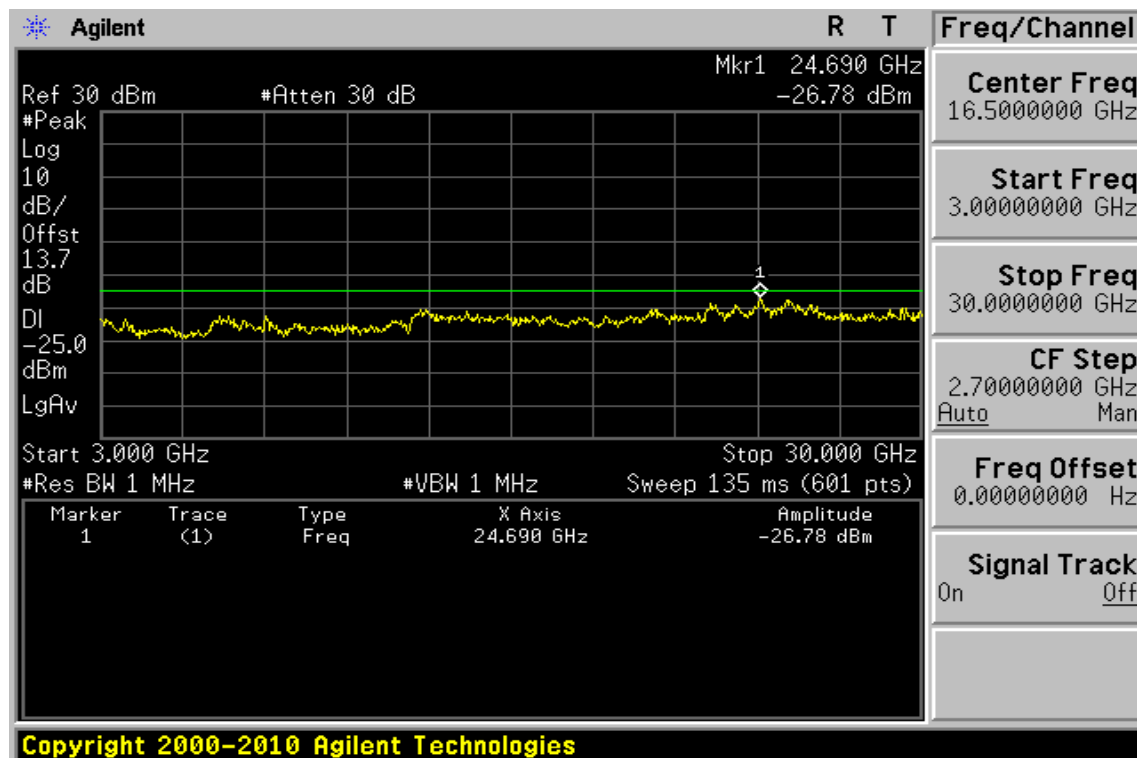
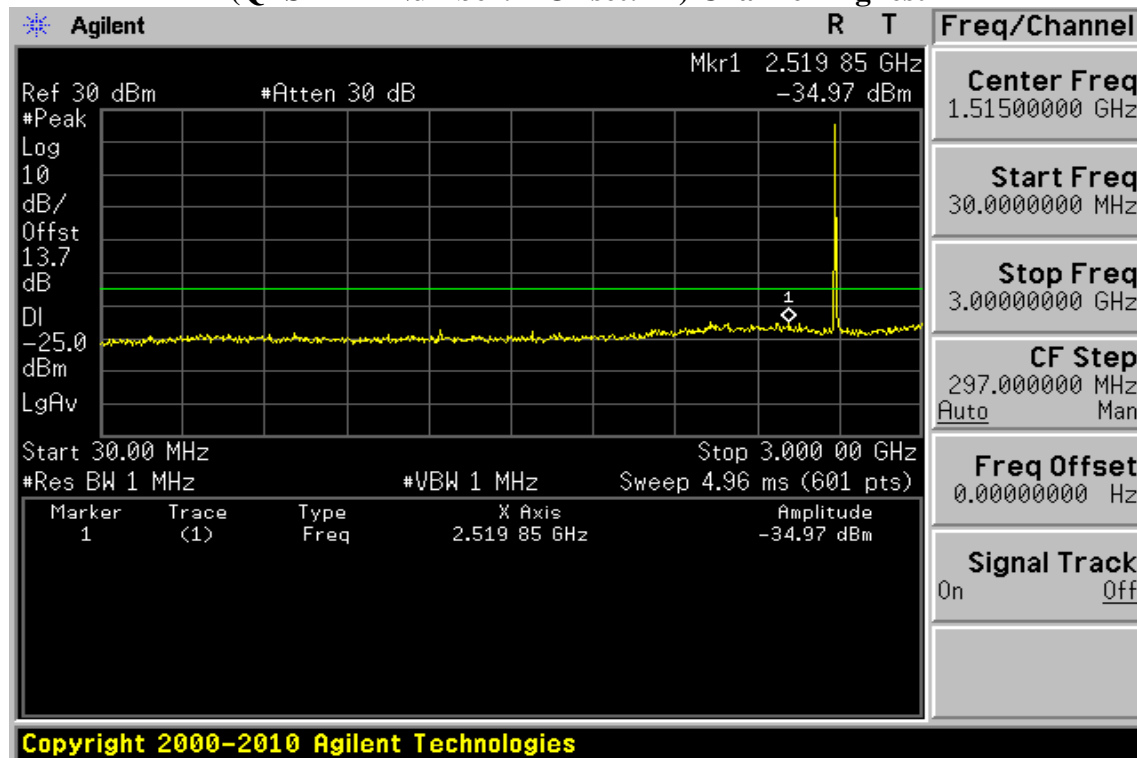
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**Figure 9-170: Out of Band emission at antenna terminals –5MHz BW LTE-Band 41
(QPSK RB Number: 1 Offset: 24) Channel Highest**



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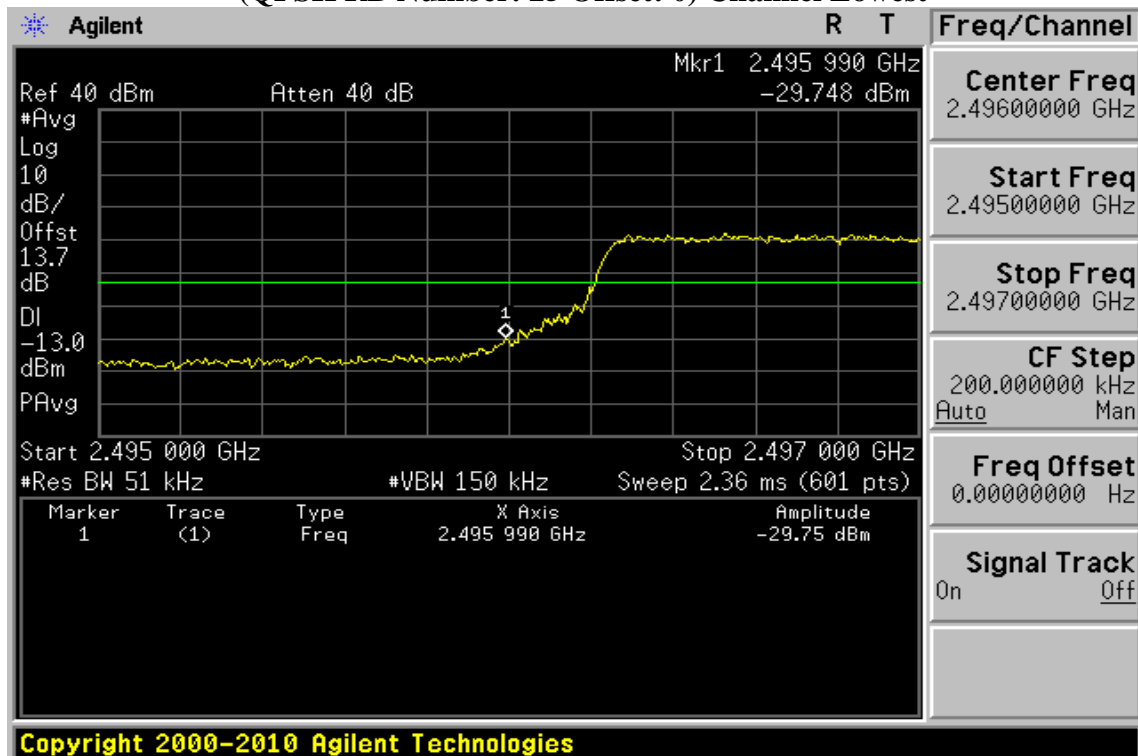
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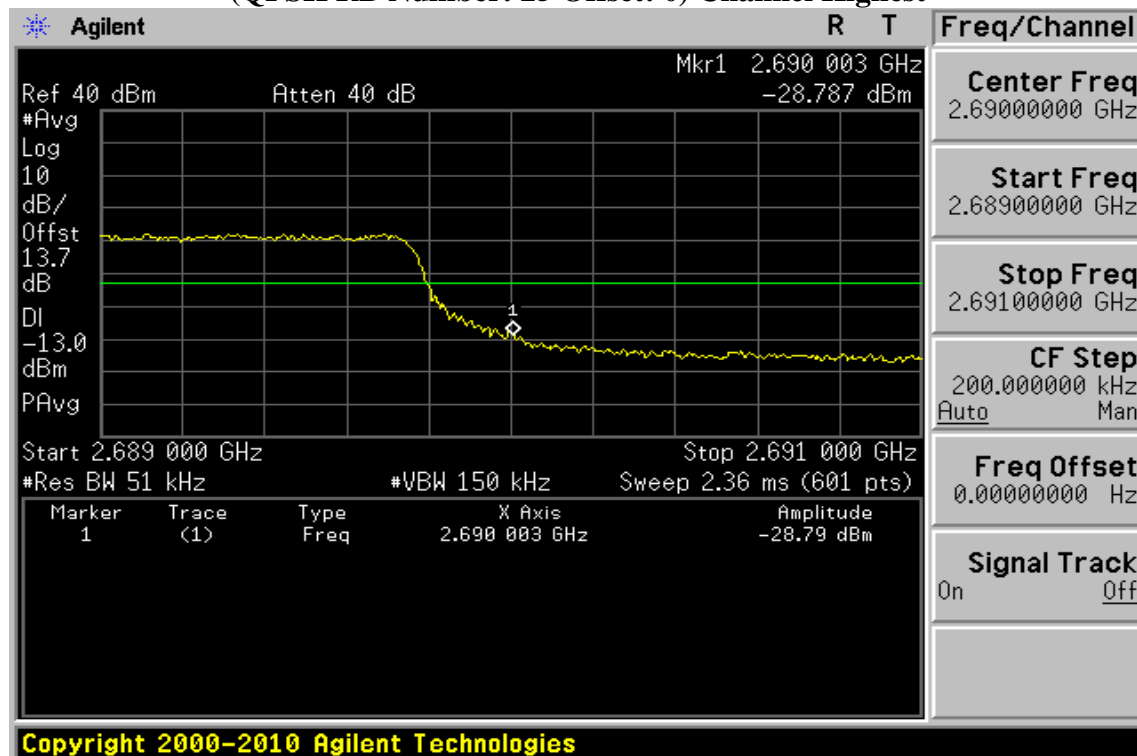
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**Figure 9-171: Band edge emission at antenna terminals – 5MHz BW LTE-Band 41
(QPSK RB Number: 25 Offset: 0) Channel Lowest**



**Figure 9-172: Band edge emission at antenna terminals –5MHz BW LTE-Band 41
(QPSK RB Number: 25 Offset: 0) Channel Highest**



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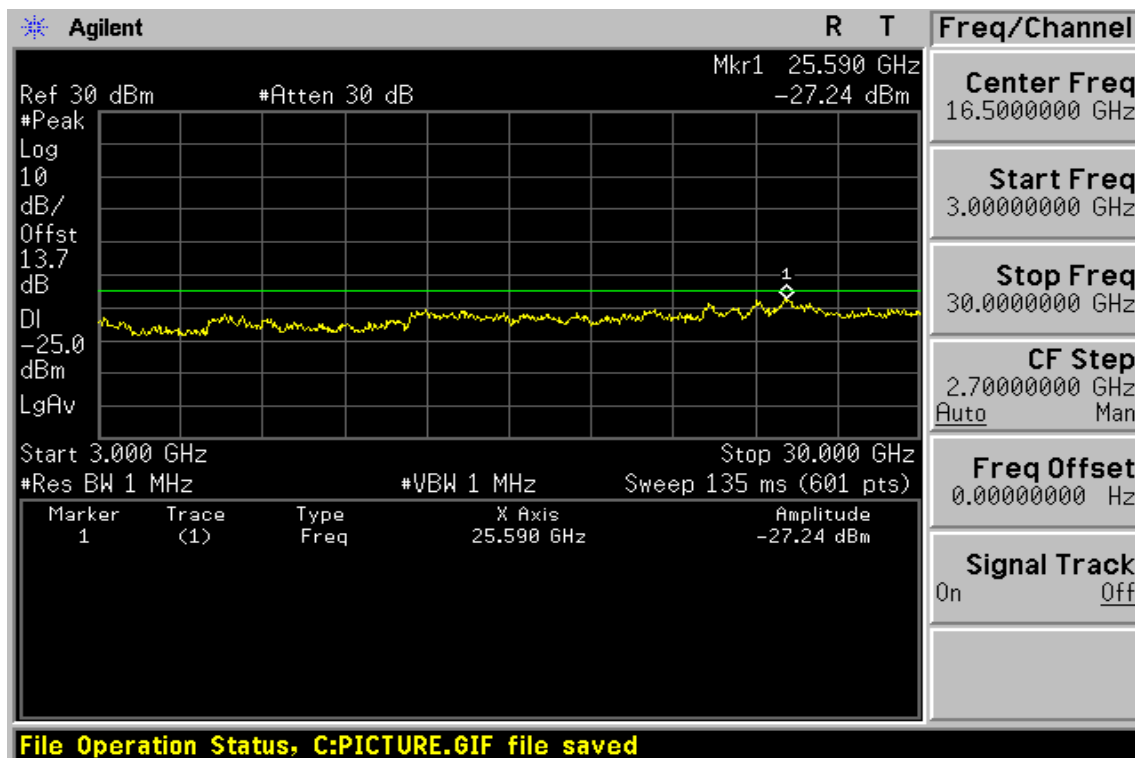
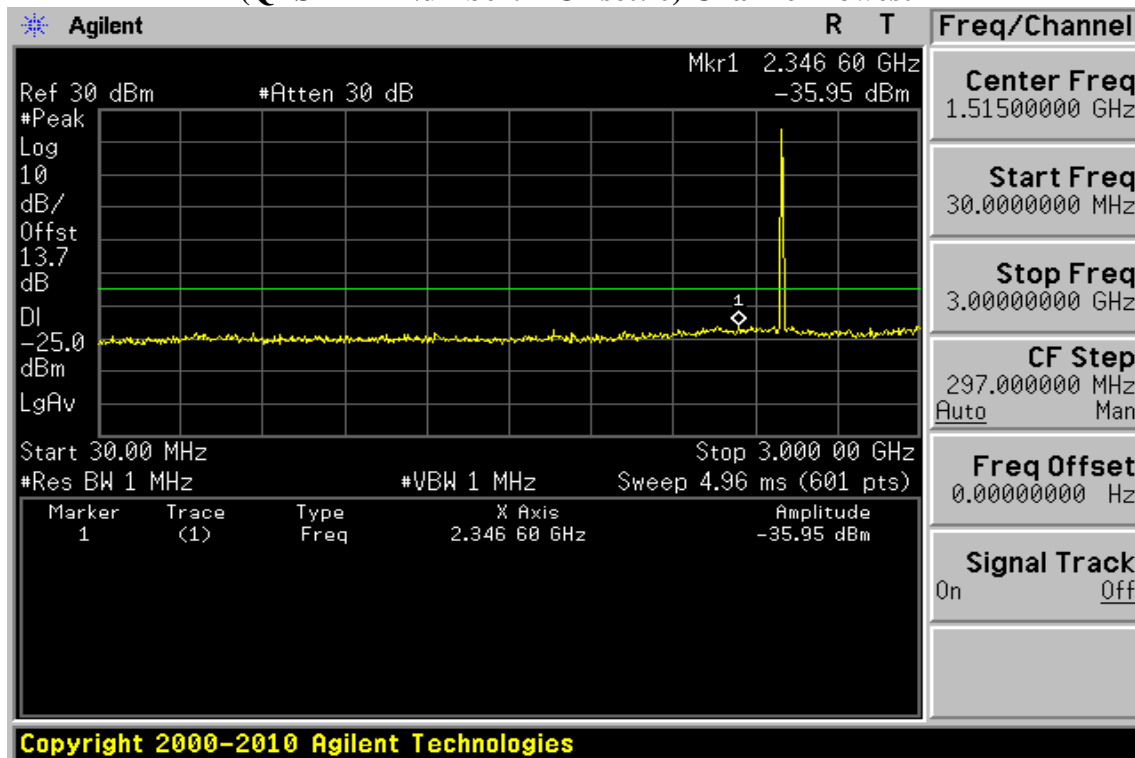
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**Figure 9-173: Out of Band emission at antenna terminals – 10MHz BW LTE-Band 41
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



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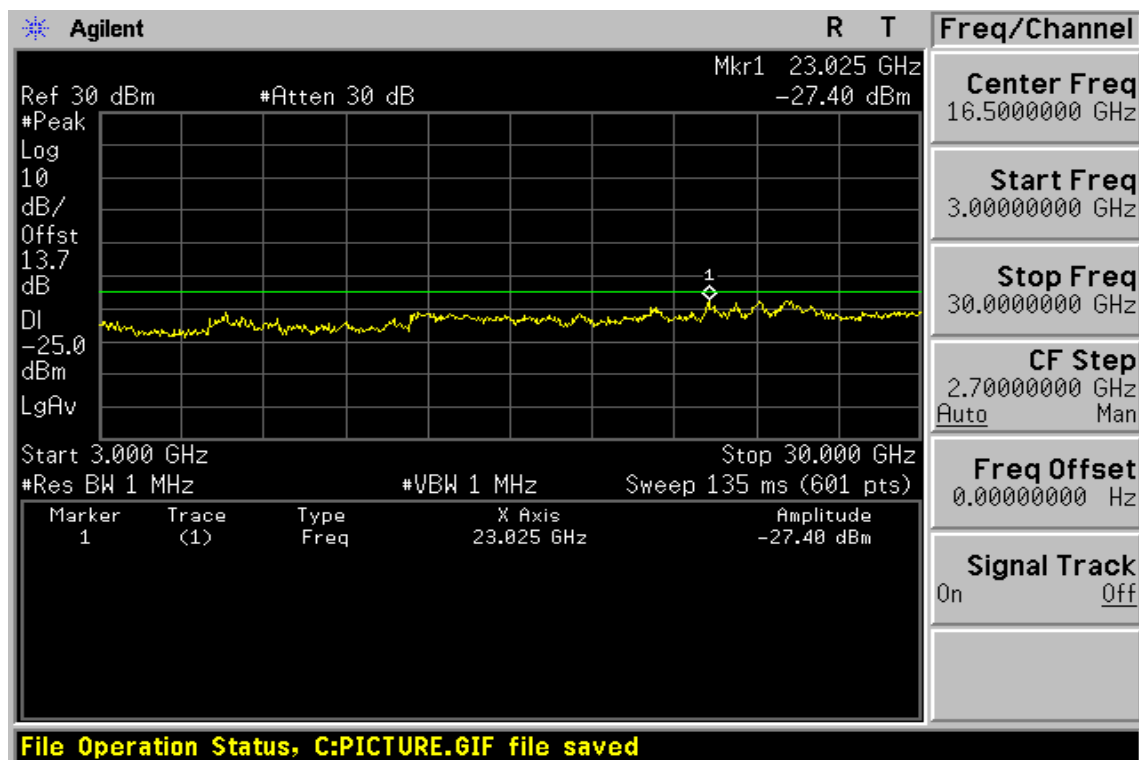
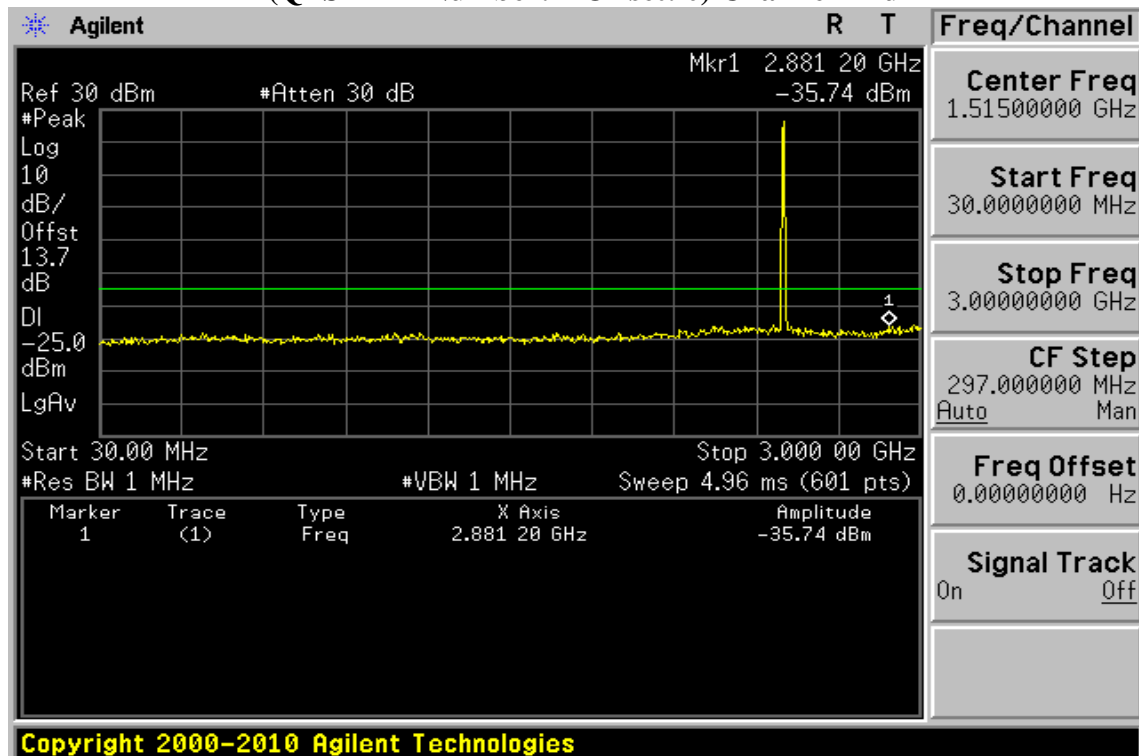
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Figure 9-174: Out of Band emission at antenna terminals –10MHz BW LTE-Band 41 (QPSK RB Number: 1 Offset: 0) Channel Mid



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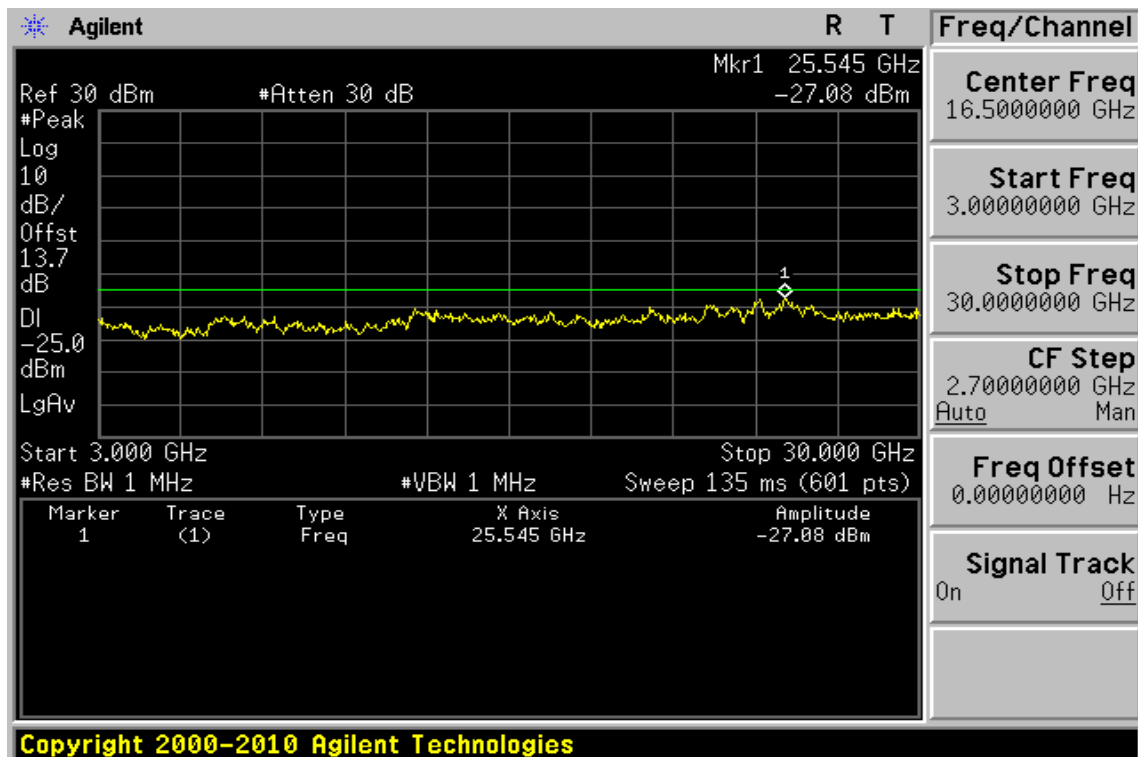
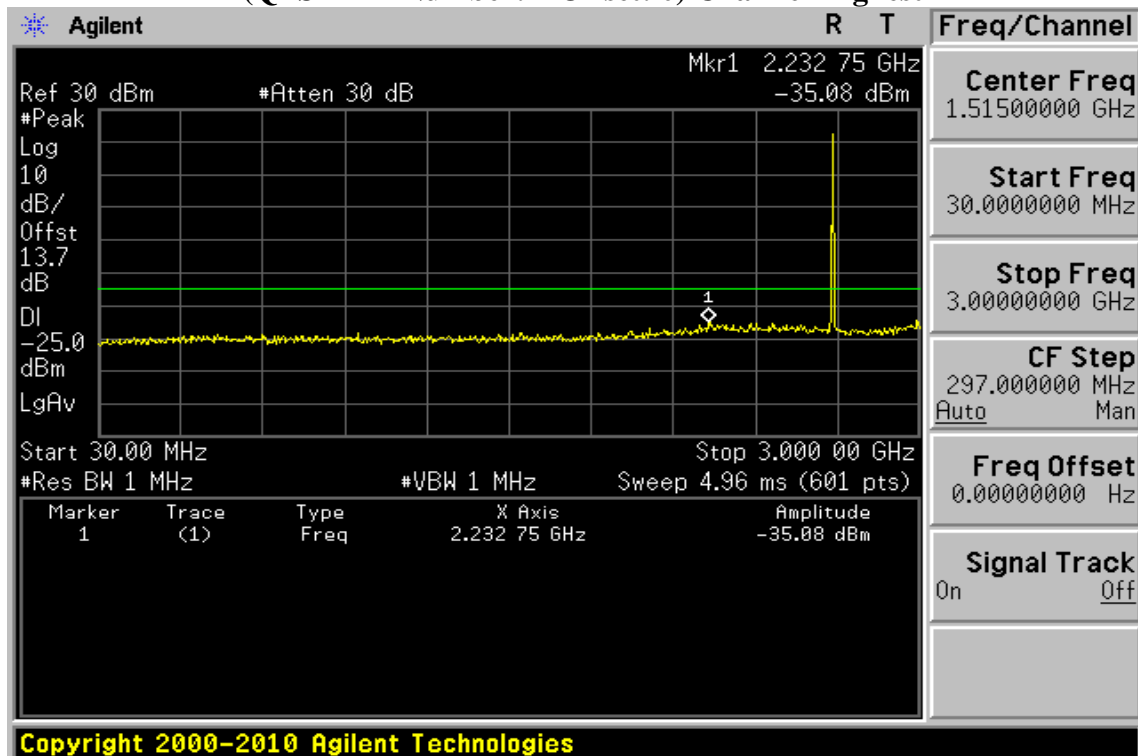
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**Figure 9-175: Out of Band emission at antenna terminals – 10MHz BW LTE-Band 41
(QPSK RB Number: 1 Offset: 0) Channel Highest**



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Figure 9-176: Band edge emission at antenna terminals – 10MHz BW LTE-Band 41 (QPSK RB Number: 1 Offset: 0) Channel Lowest

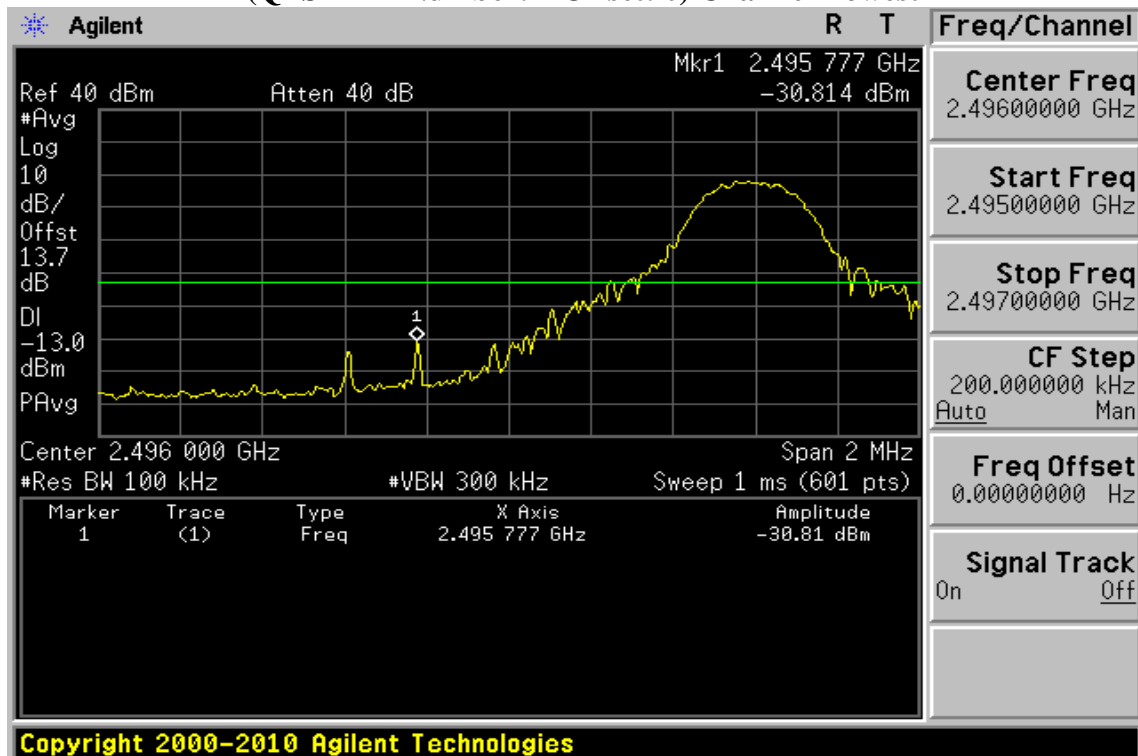
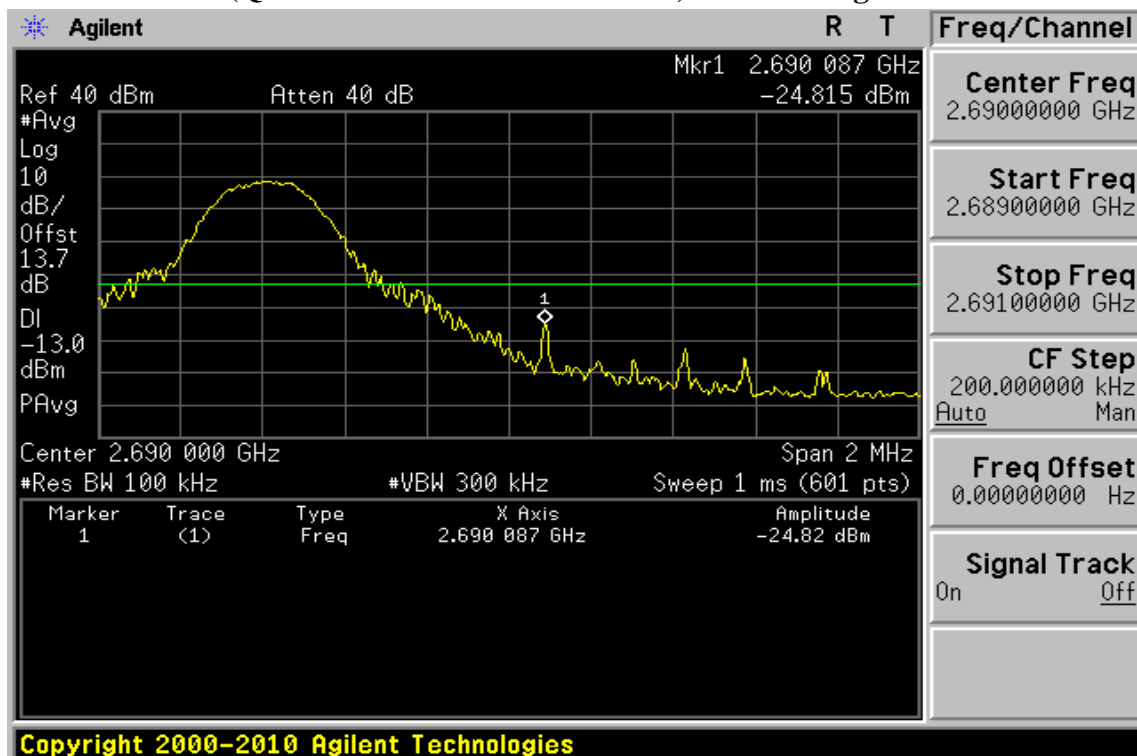


Figure 9-177: Band edge emission at antenna terminals –5MHz BW LTE-Band 41 (QPSK RB Number: 1 Offset: 49) Channel Highest



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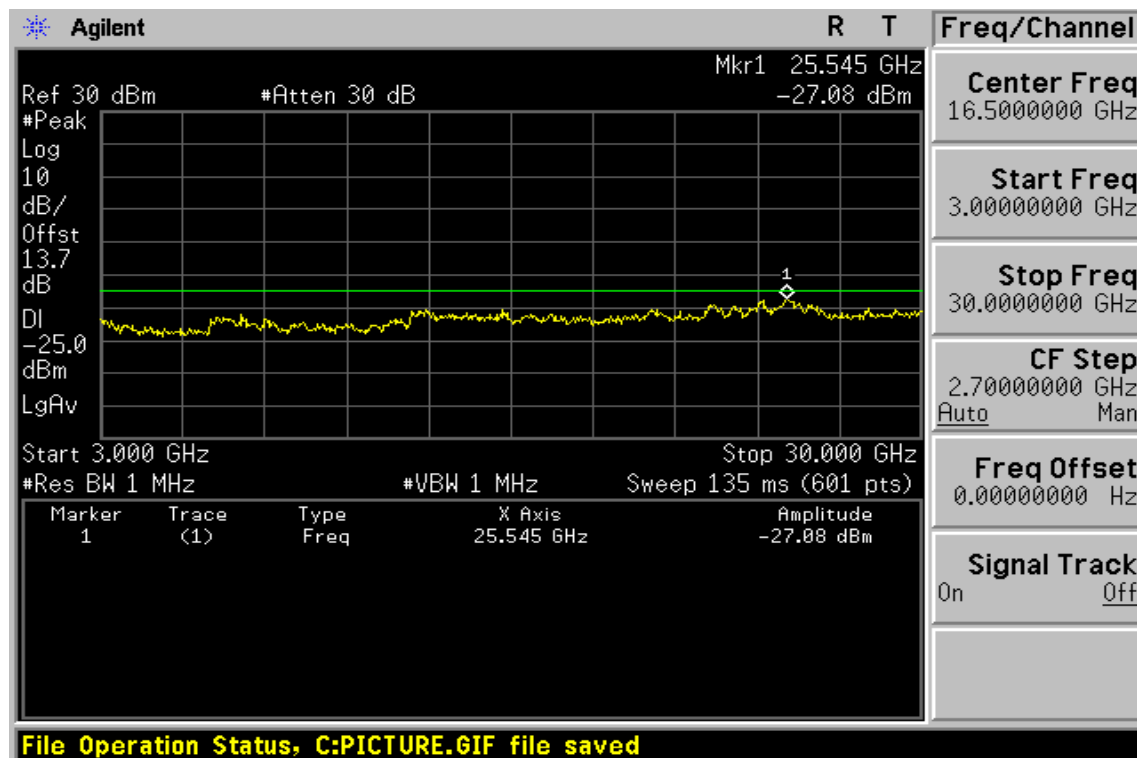
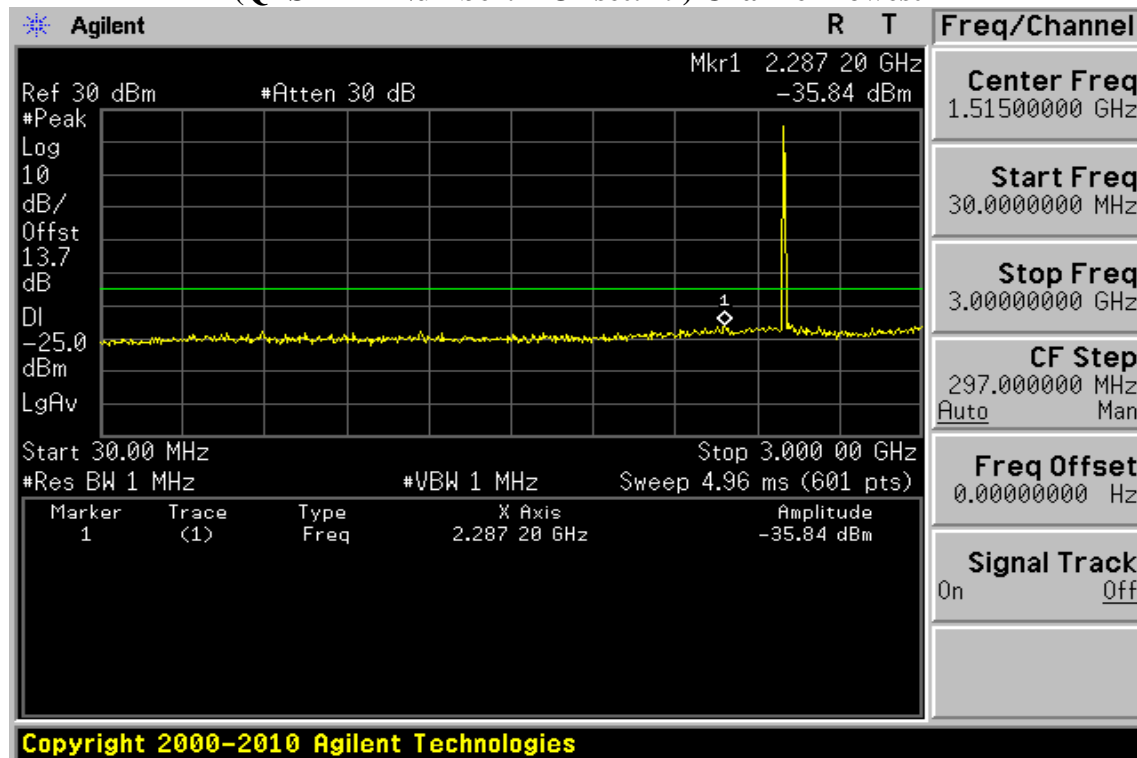
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**Figure 9-178: Out of Band emission at antenna terminals – 10MHz BW LTE-Band 41
(QPSK RB Number: 1 Offset: 49) Channel Lowest**



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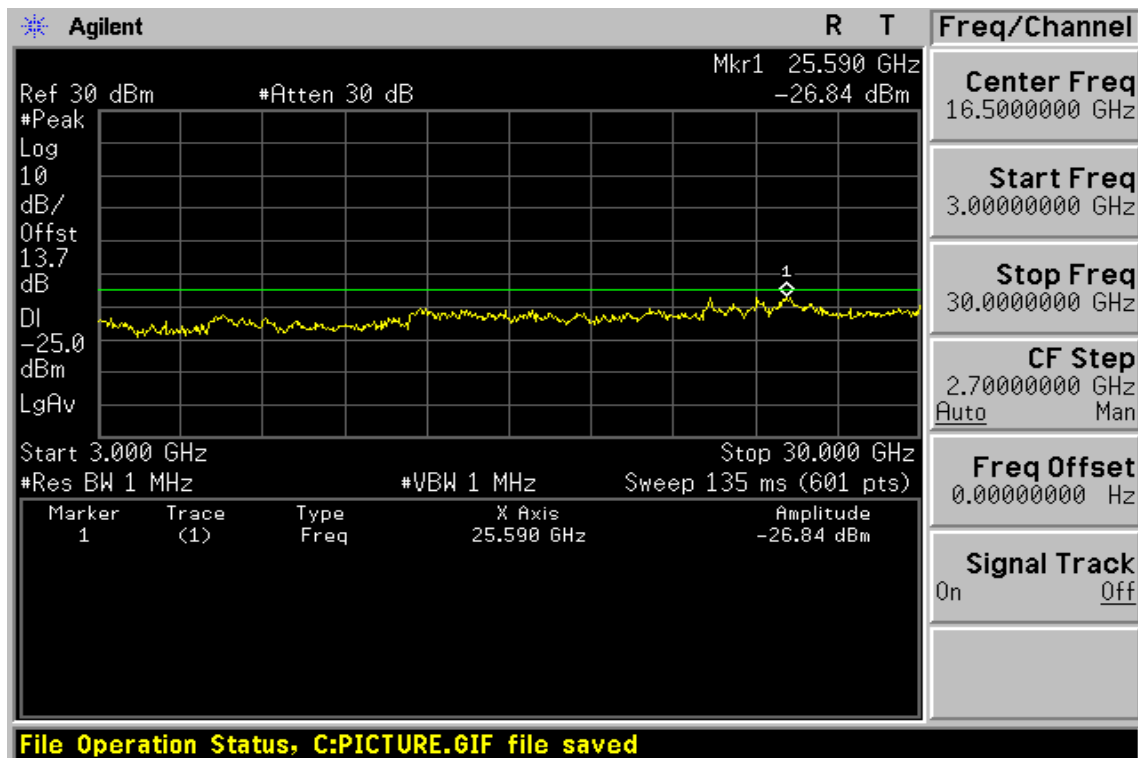
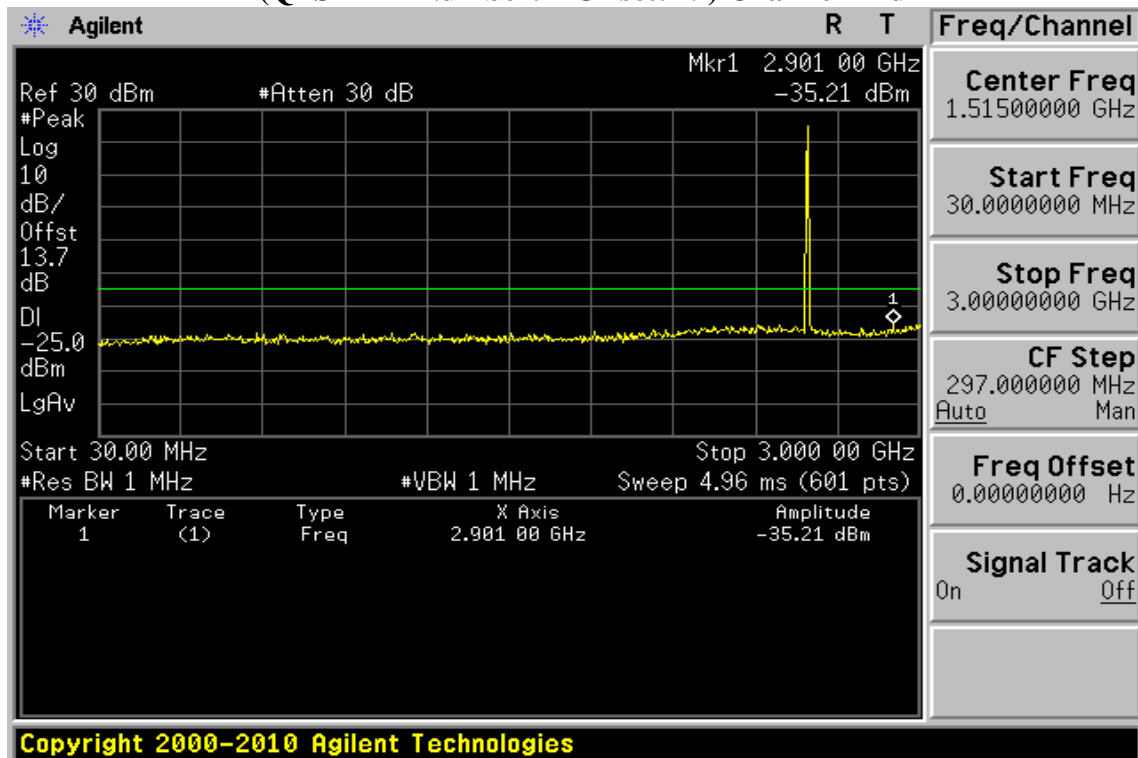
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**Figure 9-179: Out of Band emission at antenna terminals – 10MHz BW LTE-Band 41
(QPSK RB Number: 1 Offset: 49) Channel Mid**



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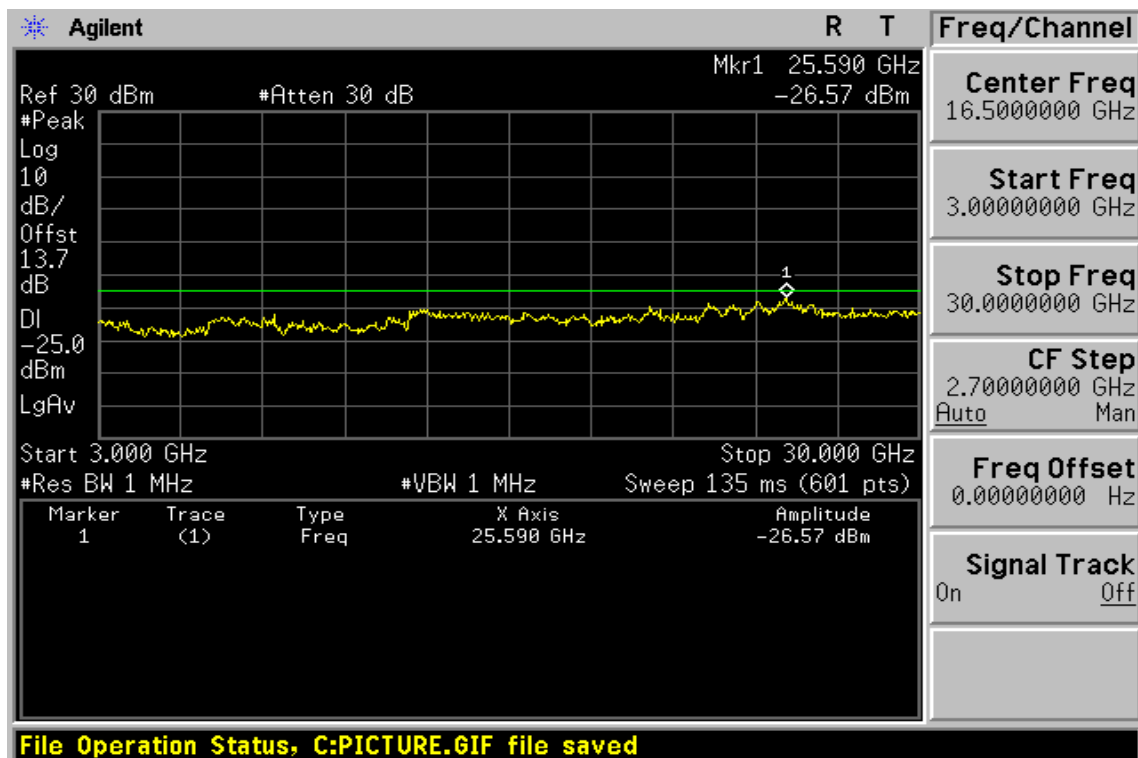
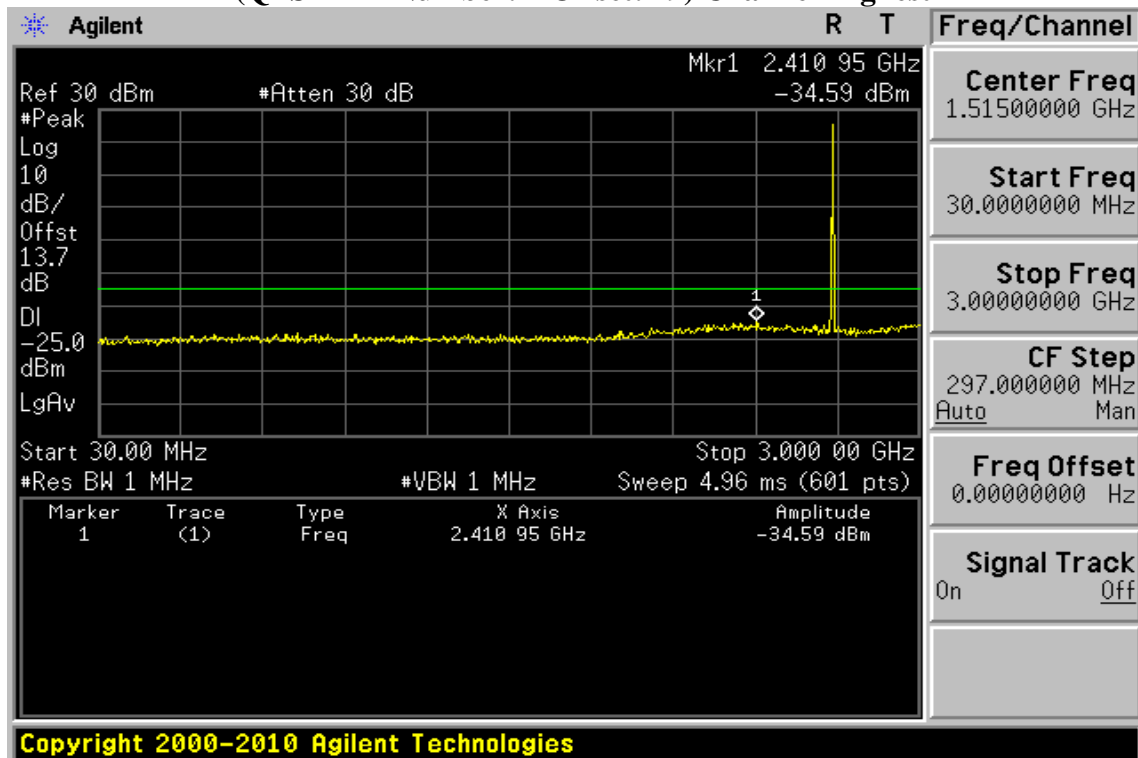
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**Figure 9-180: Out of Band emission at antenna terminals – 10MHz BW LTE-Band 41
(QPSK RB Number: 1 Offset: 49) Channel Highest**



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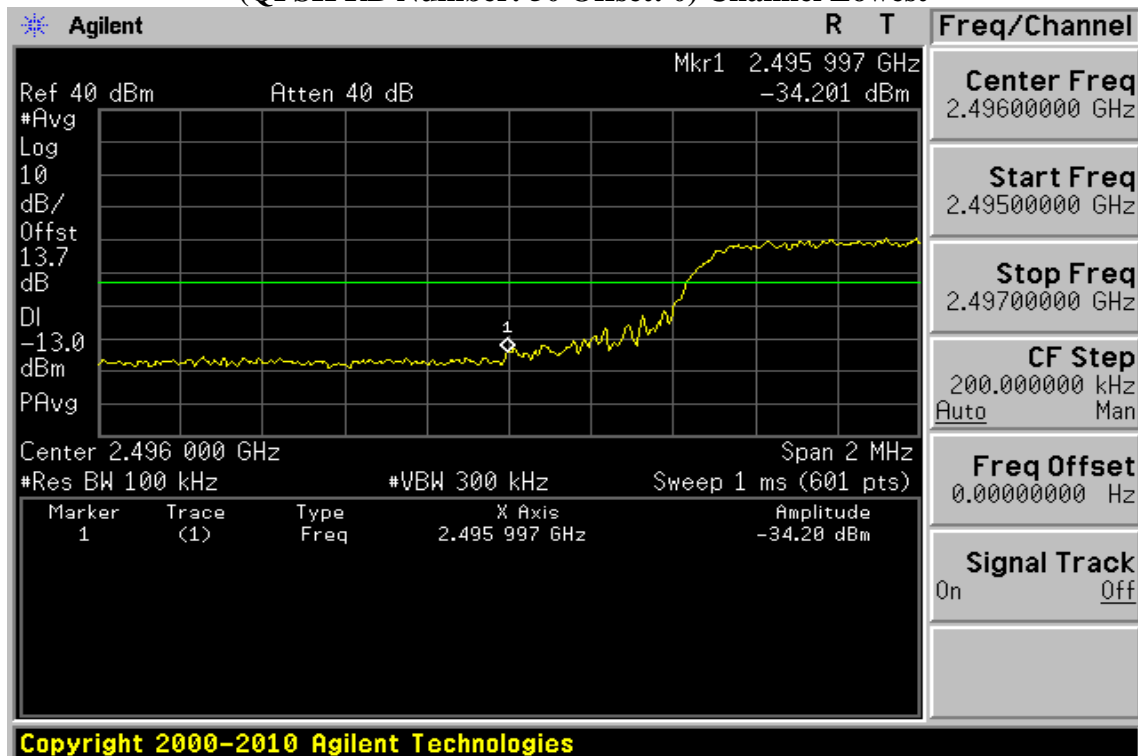
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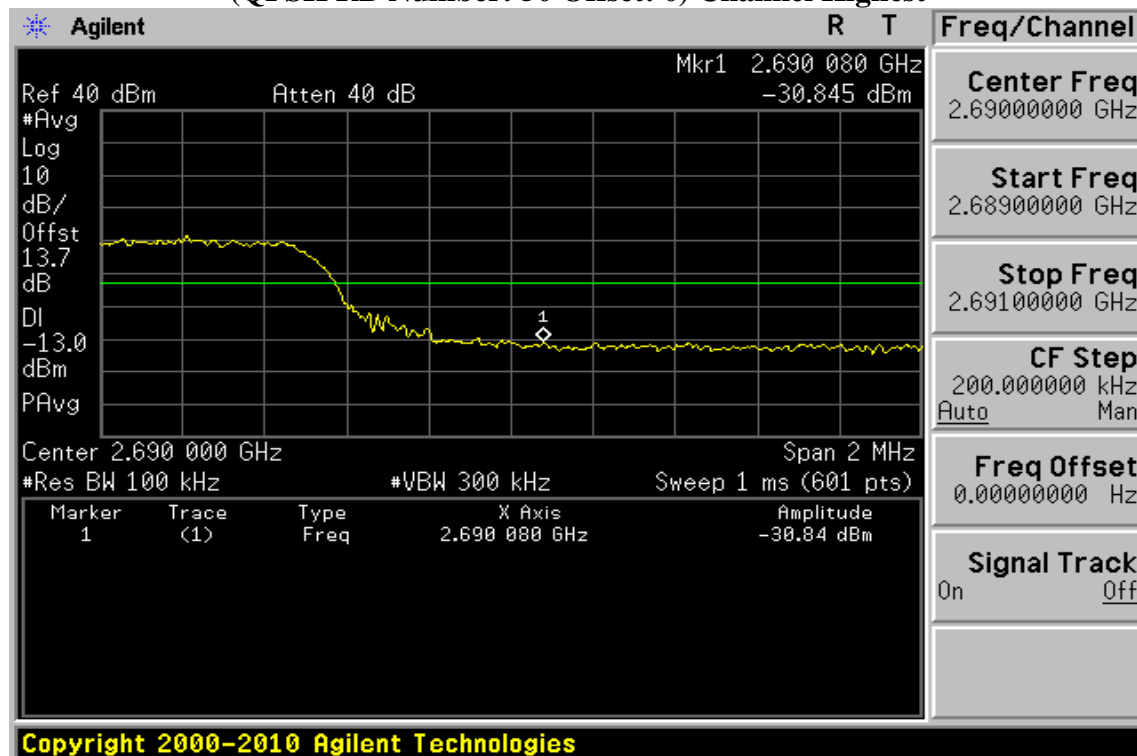
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**Figure 9-181: Band edge emission at antenna terminals – 10MHz BW LTE-Band 41
(QPSK RB Number: 50 Offset: 0) Channel Lowest**



**Figure 9-182: Band edge emission at antenna terminals – 10MHz BW LTE-Band 41
(QPSK RB Number: 50 Offset: 0) Channel Highest**



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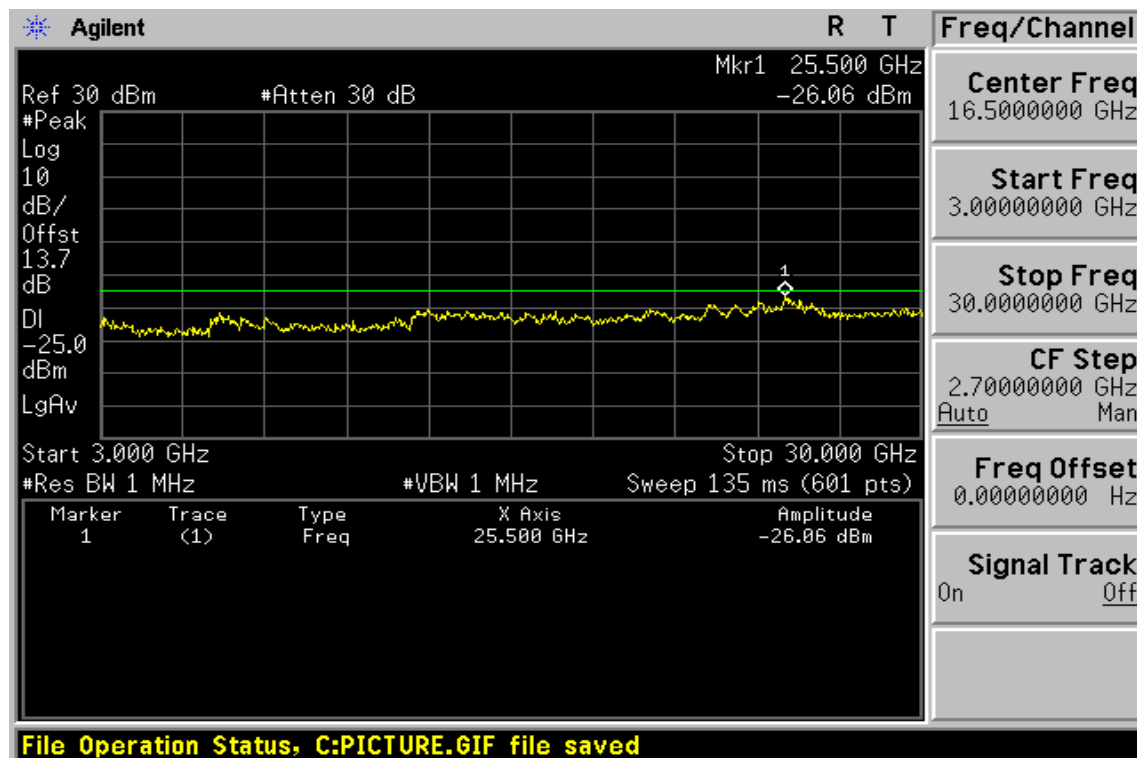
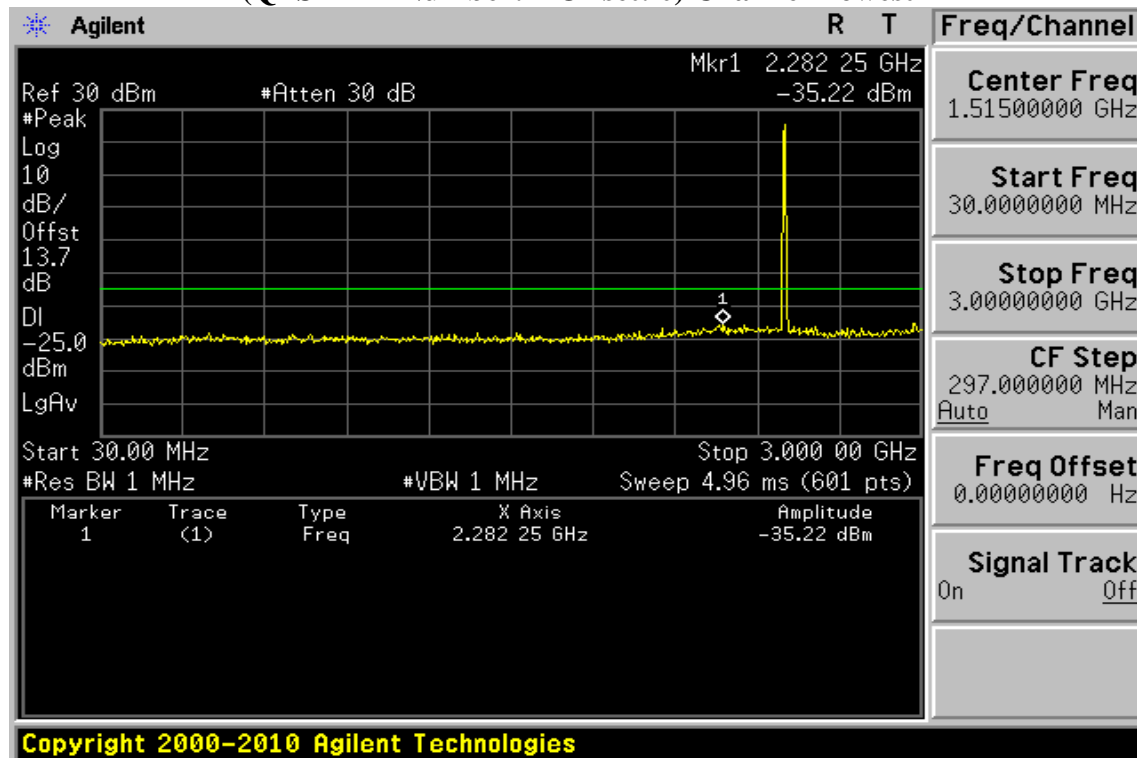
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**Figure 9-183: Out of Band emission at antenna terminals – 15MHz BW LTE-Band 41
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



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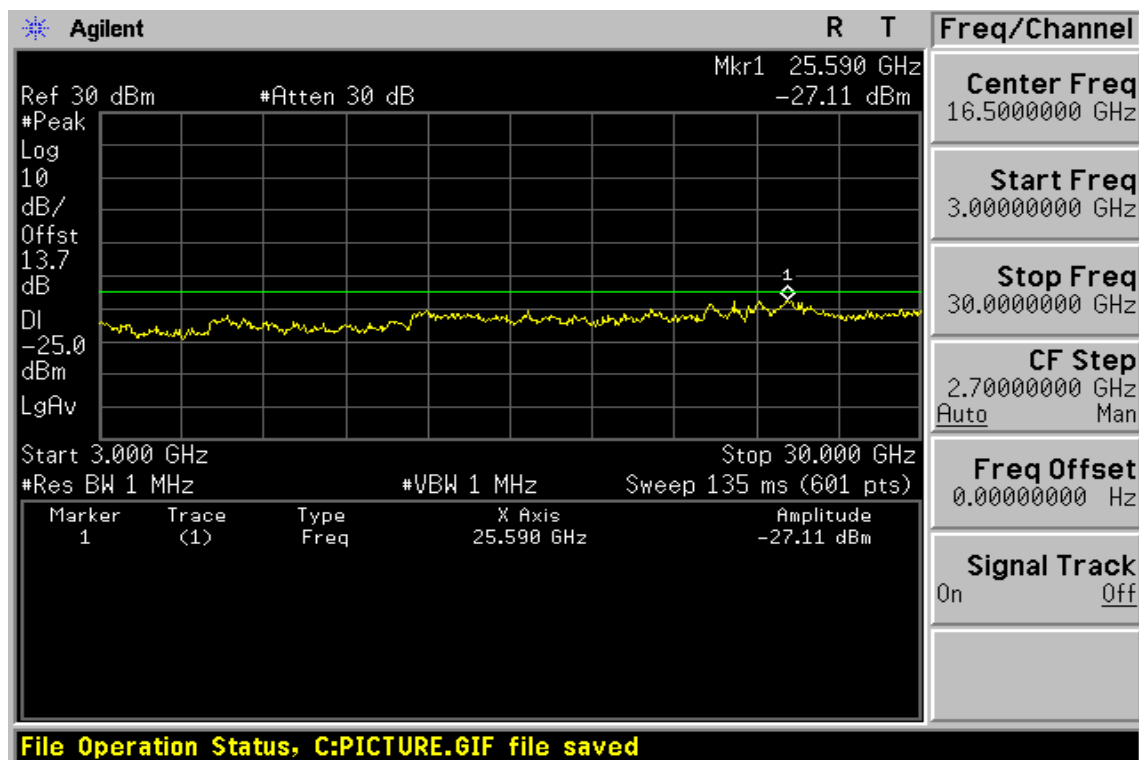
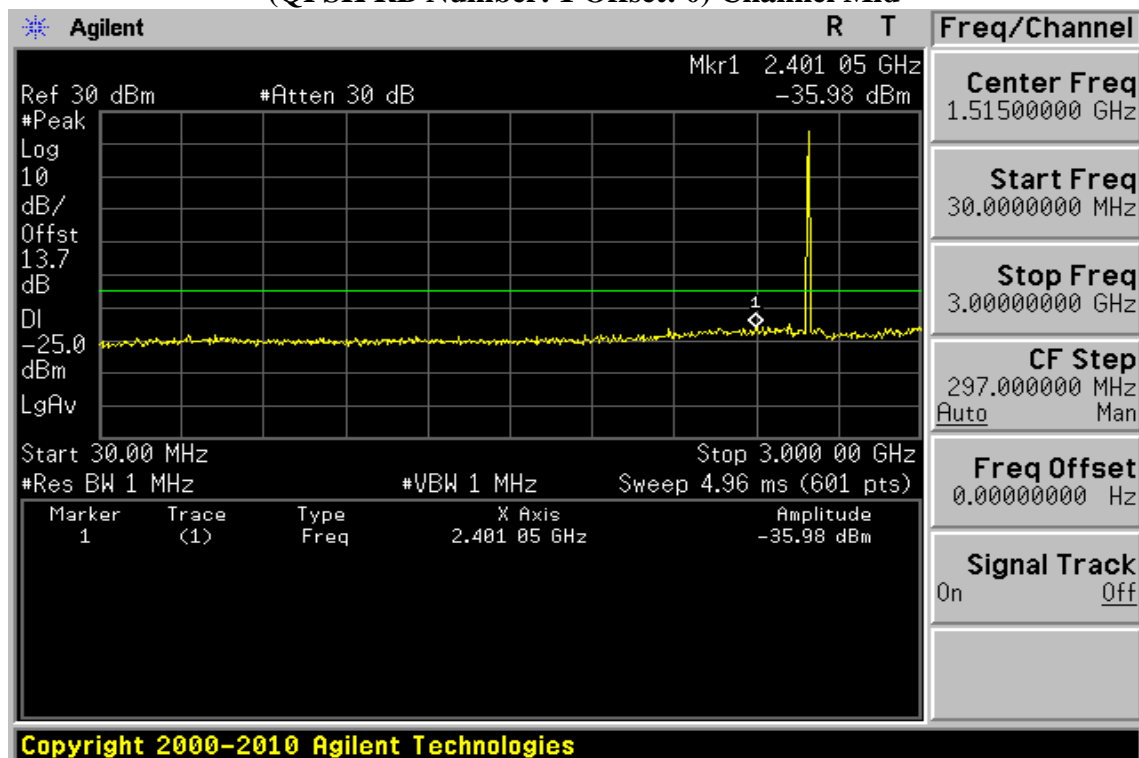
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**Figure 9-184: Out of Band emission at antenna terminals –15MHz BW LTE-Band 41
(QPSK RB Number: 1 Offset: 0) Channel Mid**



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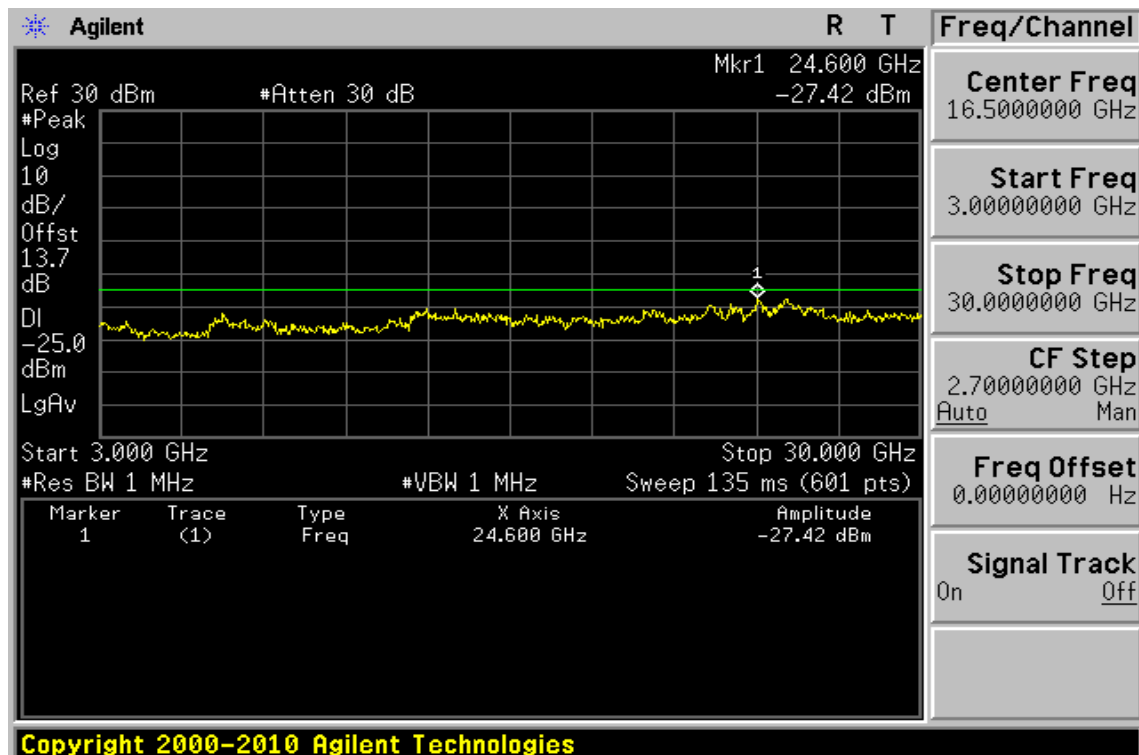
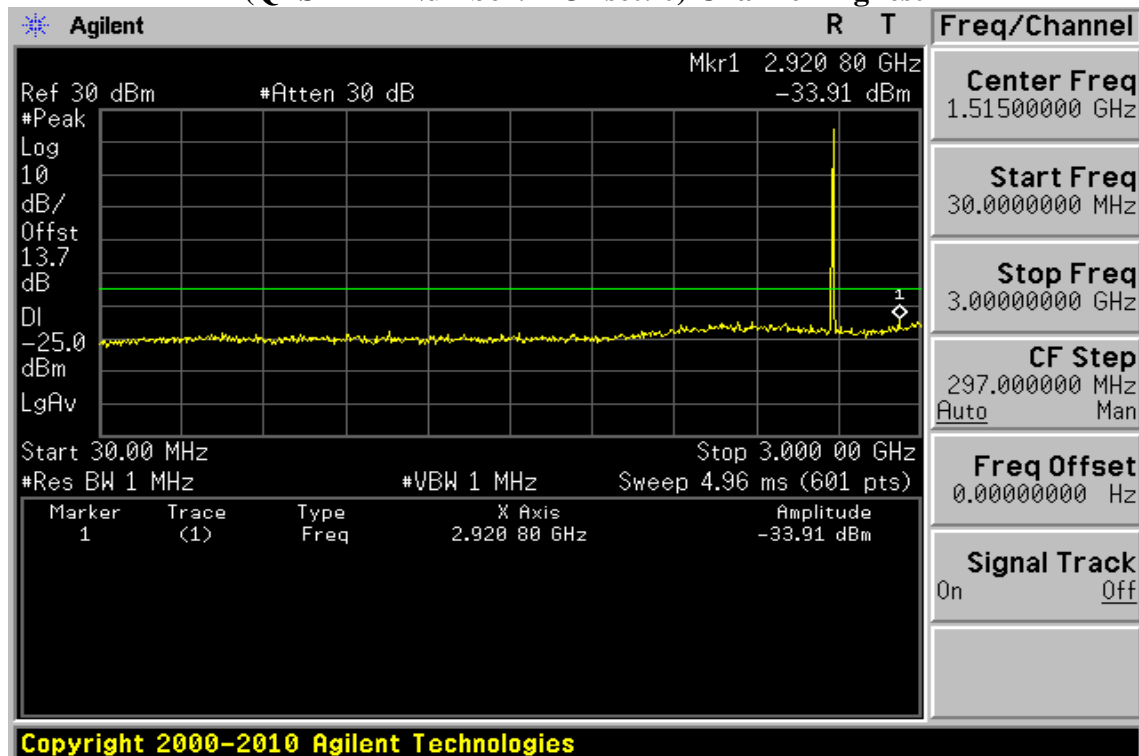
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Figure 9-185: Out of Band emission at antenna terminals – 15MHz BW LTE-Band 41 (QPSK RB Number: 1 Offset: 0) Channel Highest



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Figure 9-186: Band edge emission at antenna terminals – 15MHz BW LTE-Band 41 (QPSK RB Number: 1 Offset: 0) Channel Lowest

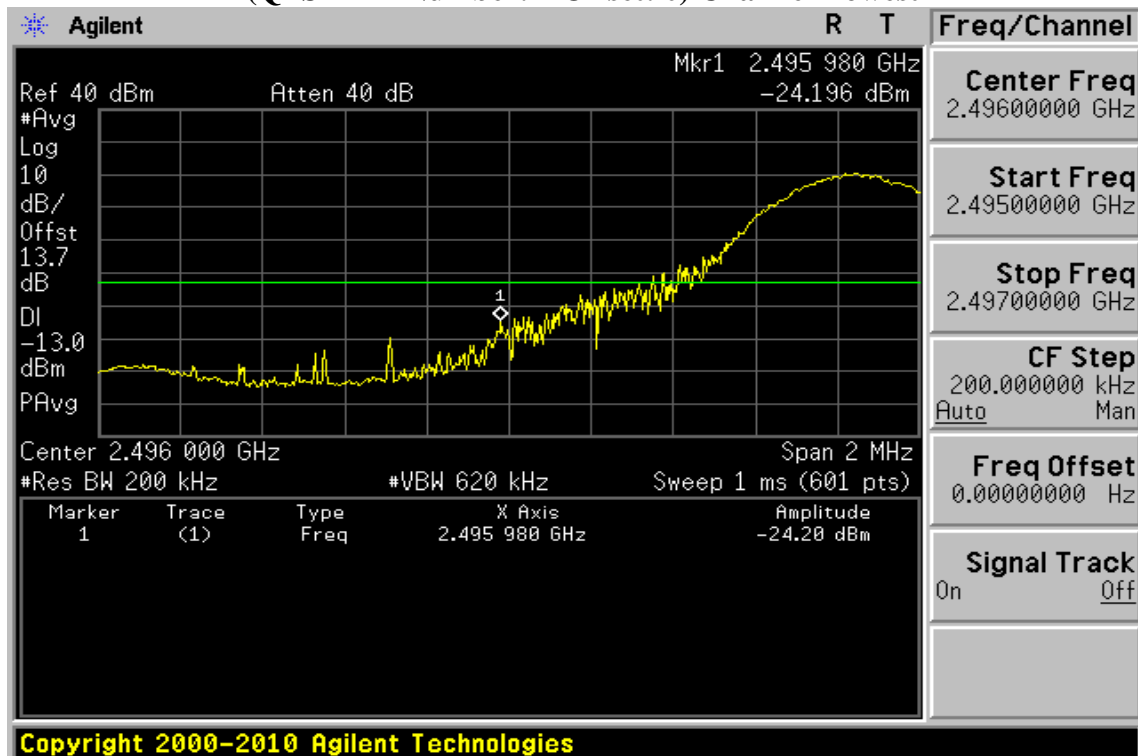
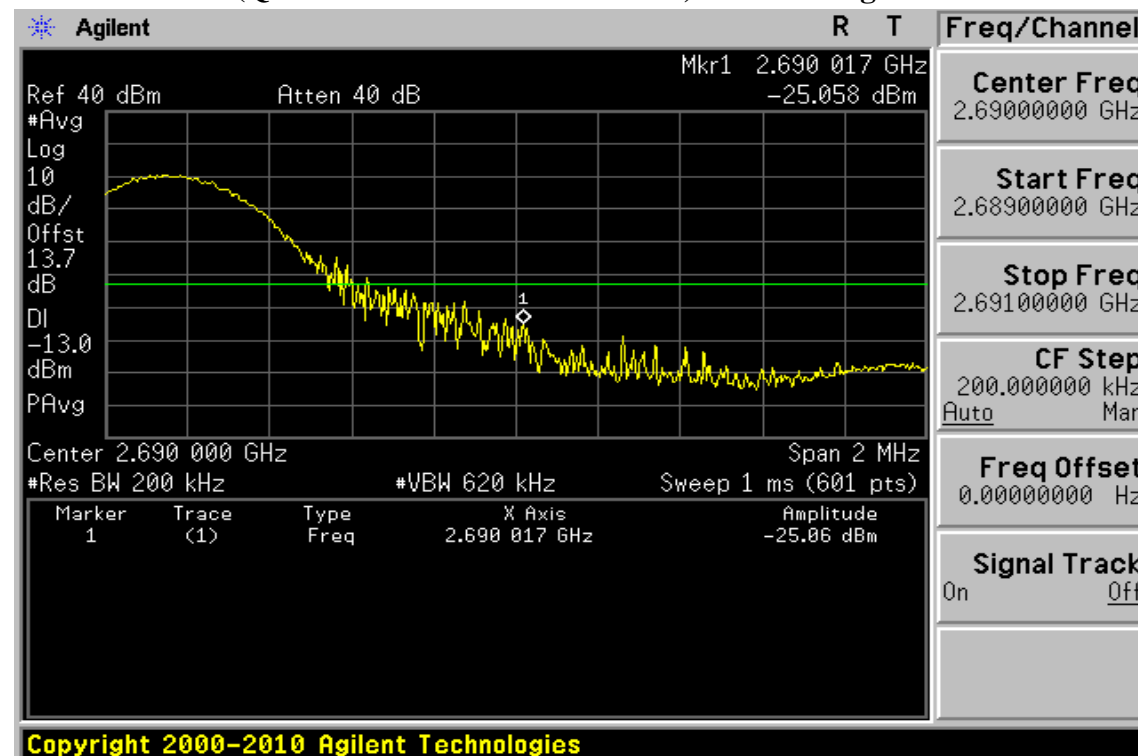


Figure 9-187: Band edge emission at antenna terminals – 15MHz BW LTE-Band 41 (QPSK RB Number: 1 Offset: 74) Channel Highest



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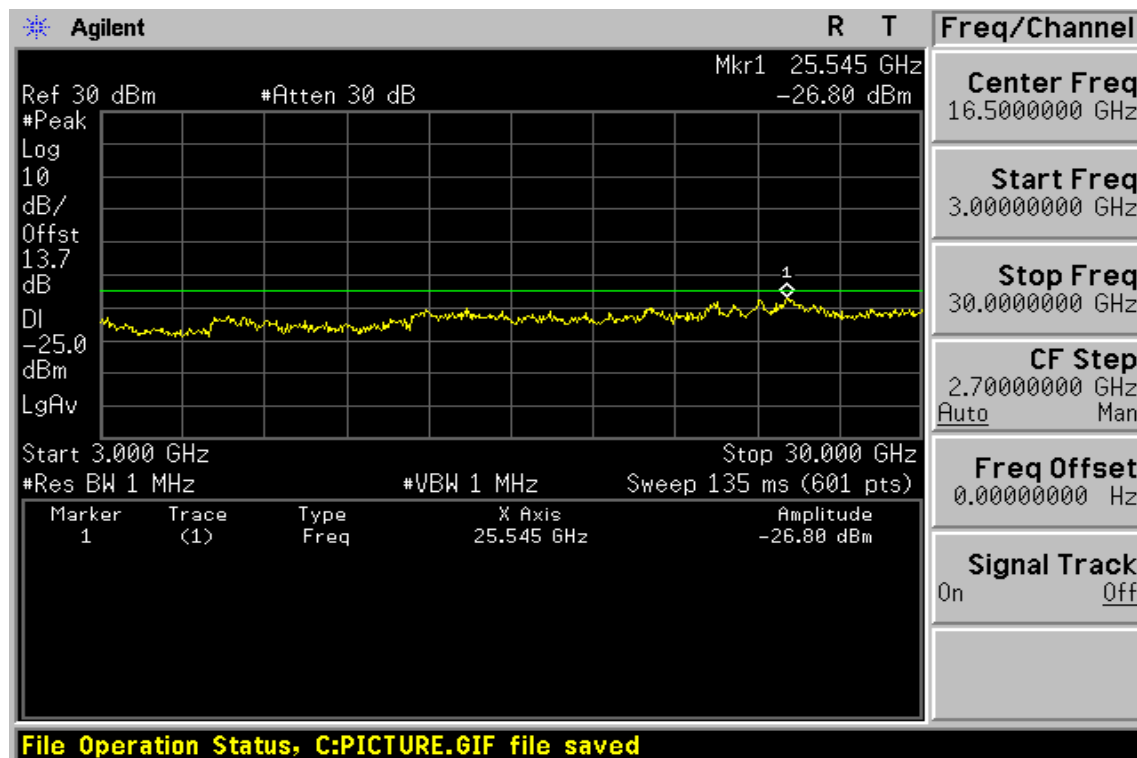
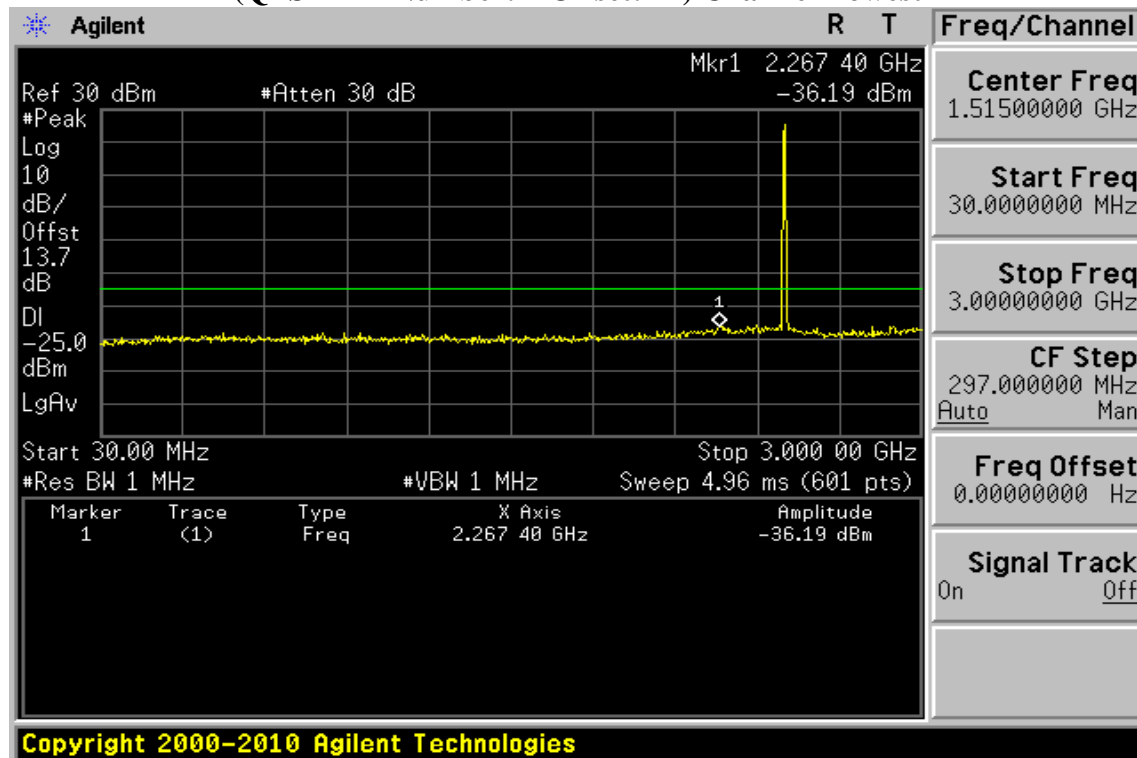
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**Figure 9-188: Out of Band emission at antenna terminals – 15MHz BW LTE-Band 41
(QPSK RB Number: 1 Offset: 74) Channel Lowest**



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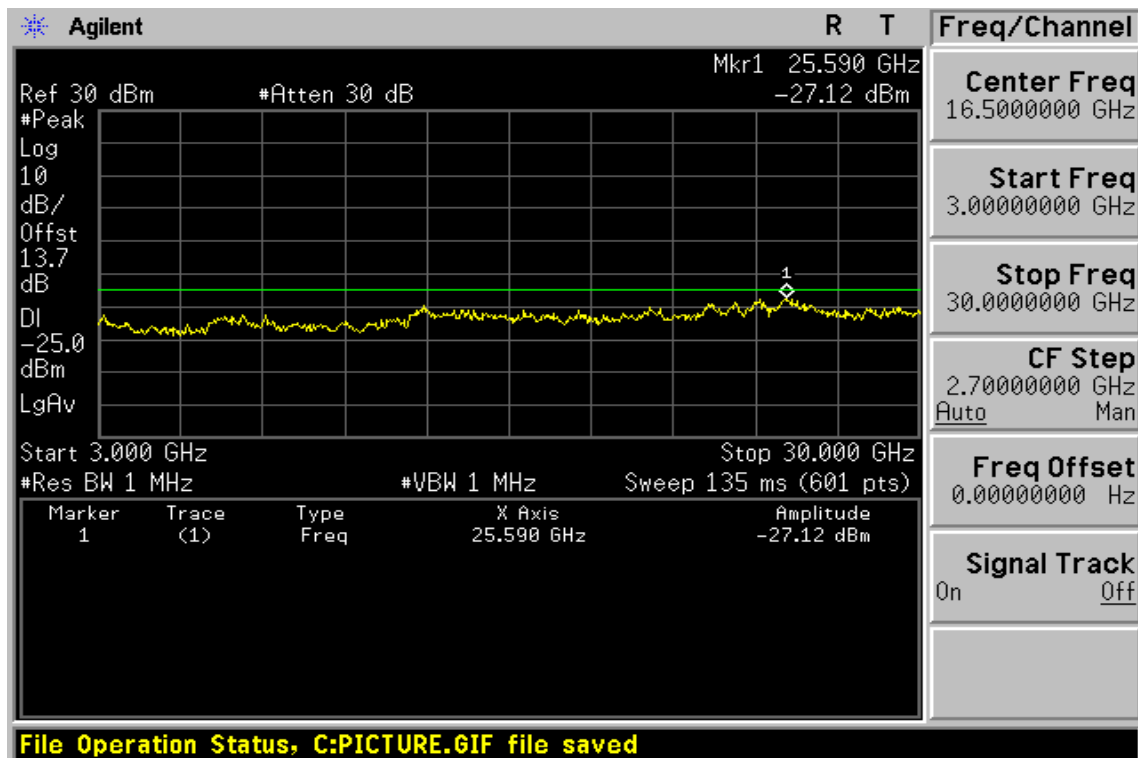
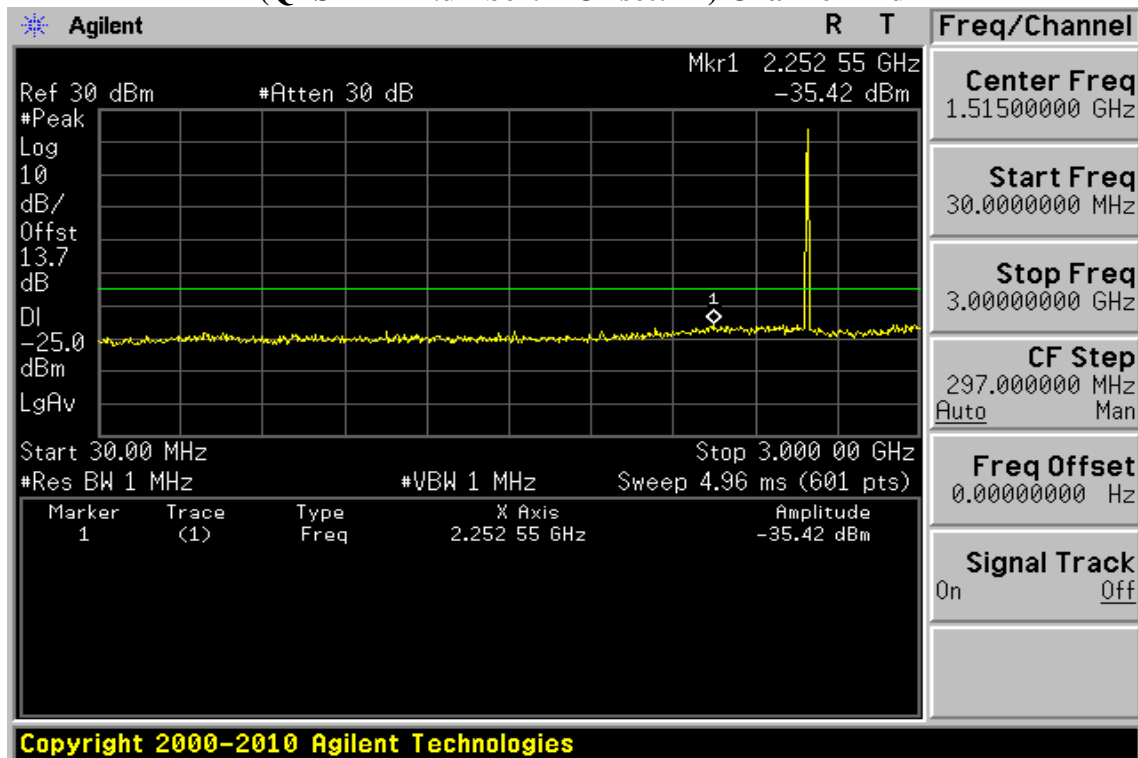
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**Figure 9-189: Out of Band emission at antenna terminals – 15MHz BW LTE-Band 41
(QPSK RB Number: 1 Offset: 74) Channel Mid**



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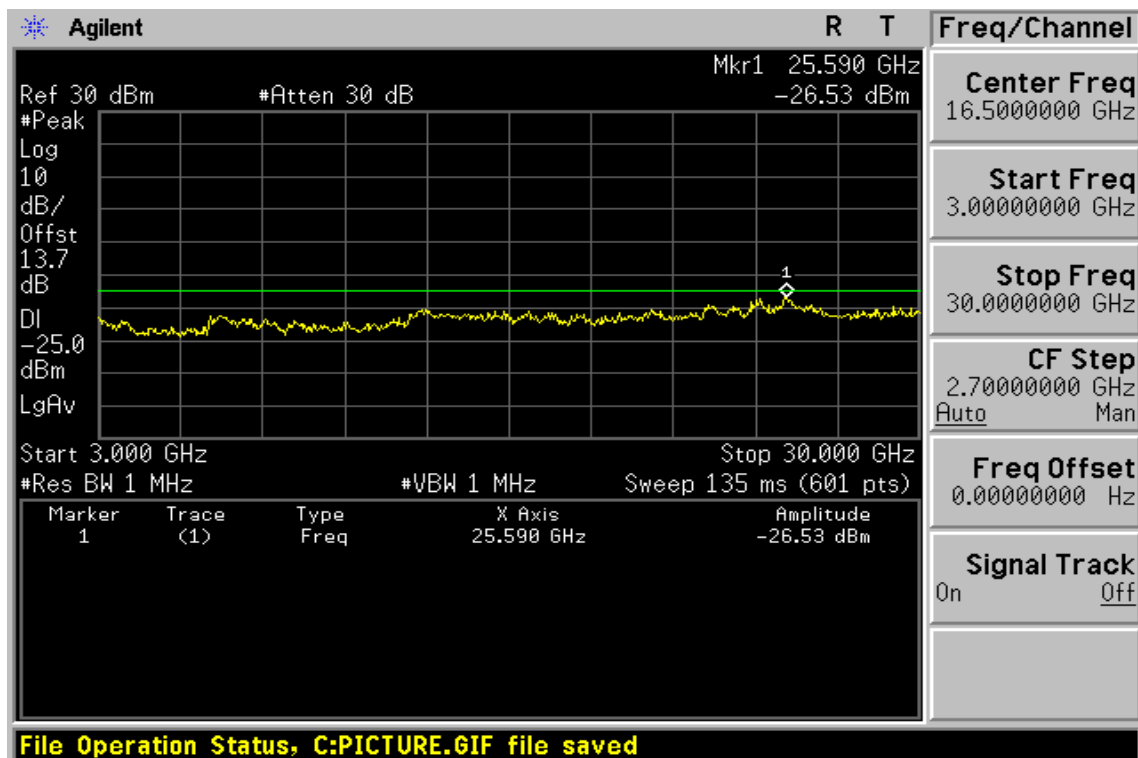
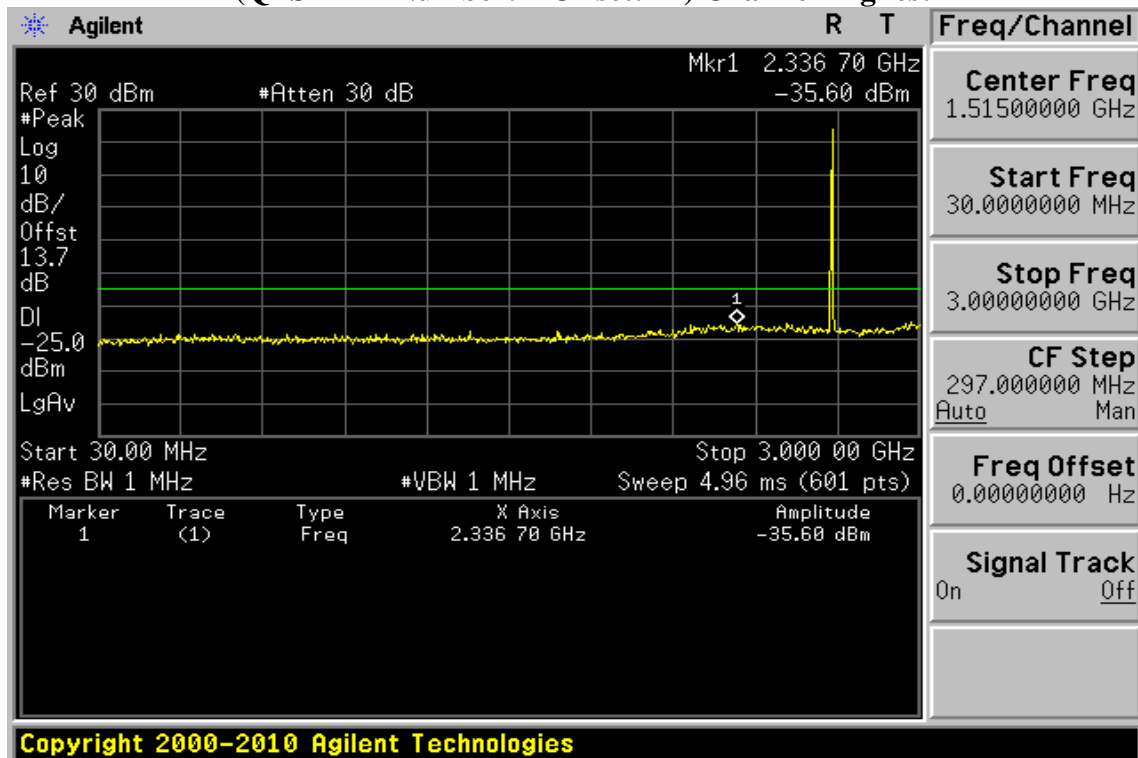
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**Figure 9-190: Out of Band emission at antenna terminals – 15MHz BW LTE-Band 41
(QPSK RB Number: 1 Offset: 74) Channel Highest**



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Figure 9-191: Band edge emission at antenna terminals – 15MHz BW LTE-Band 41 (QPSK RB Number: 75 Offset: 0) Channel Lowest

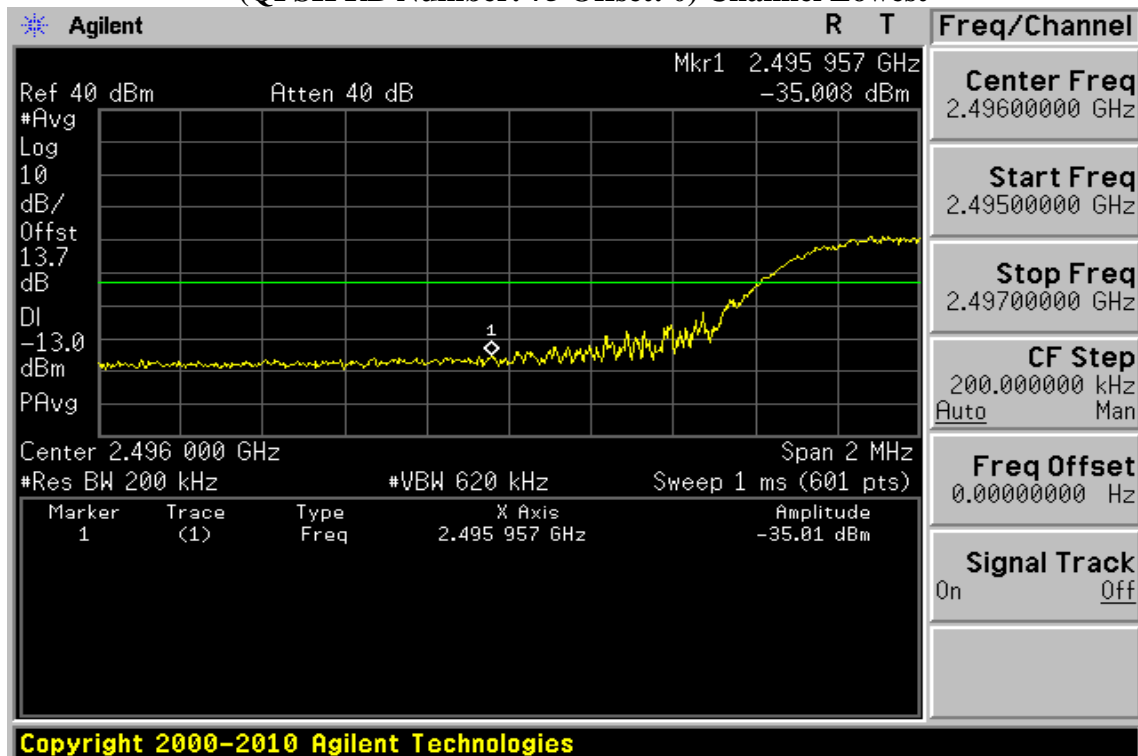
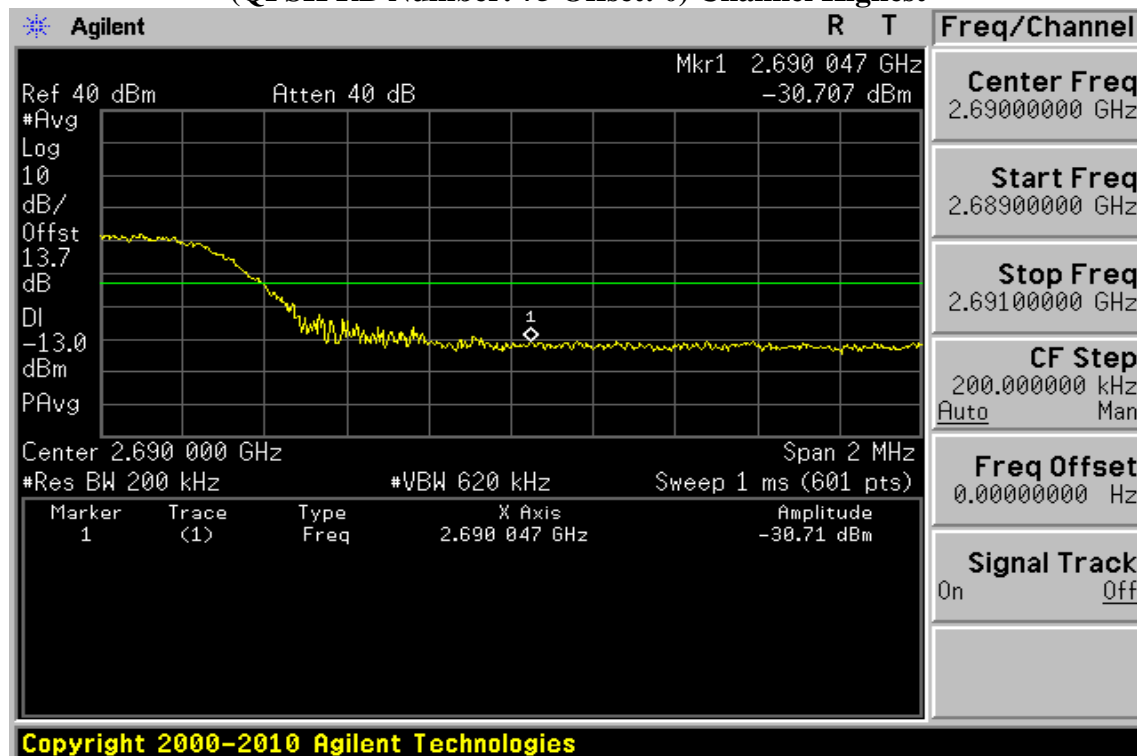


Figure 9-192: Band edge emission at antenna terminals – 15MHz BW LTE-Band 41 (QPSK RB Number: 75 Offset: 0) Channel Highest



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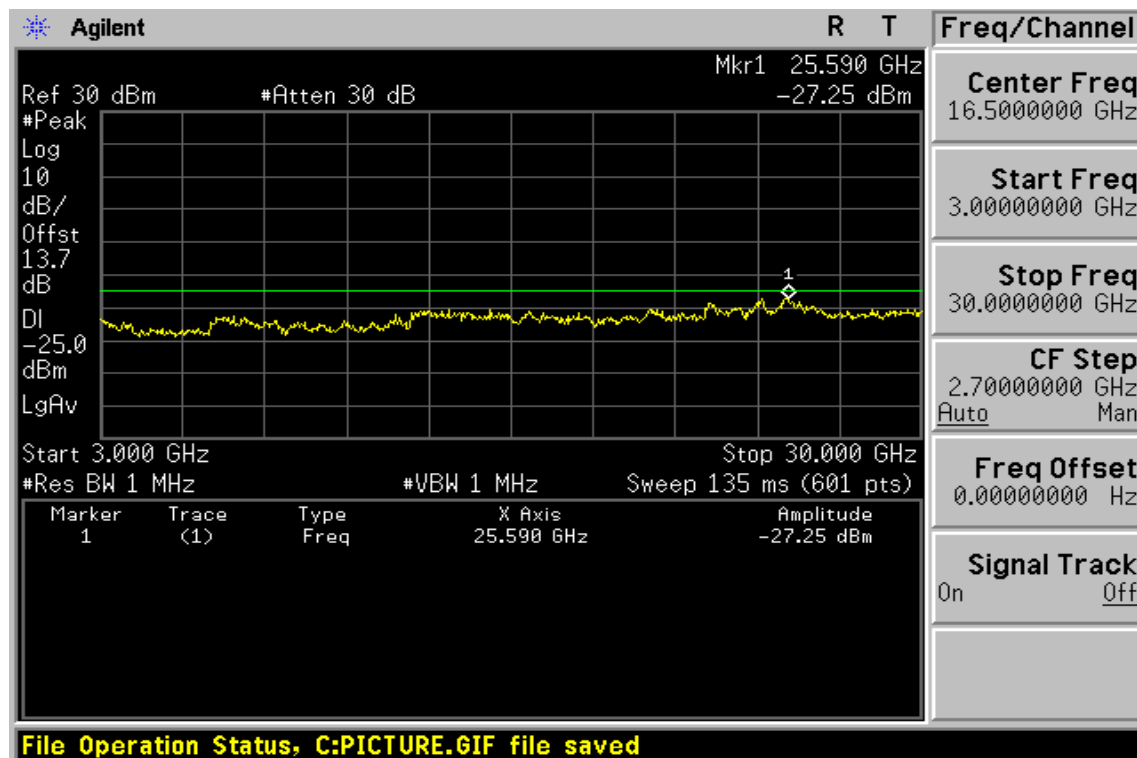
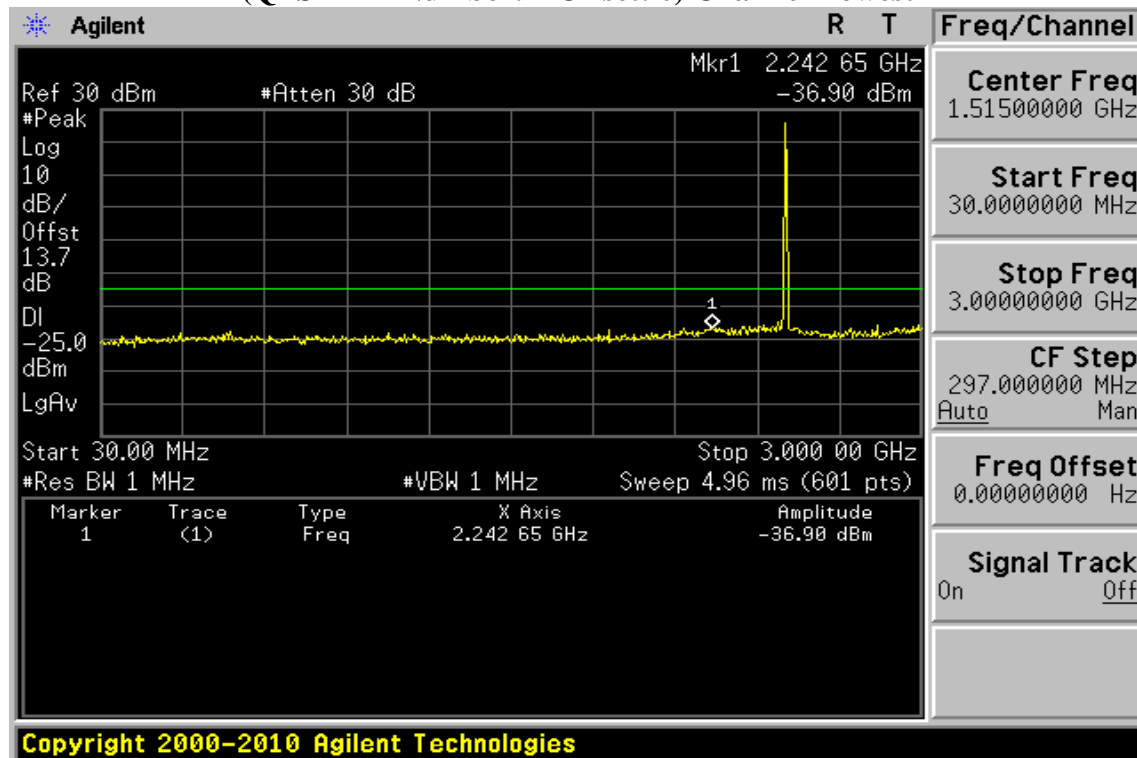
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**Figure 9-193: Out of Band emission at antenna terminals – 20MHz BW LTE-Band 41
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



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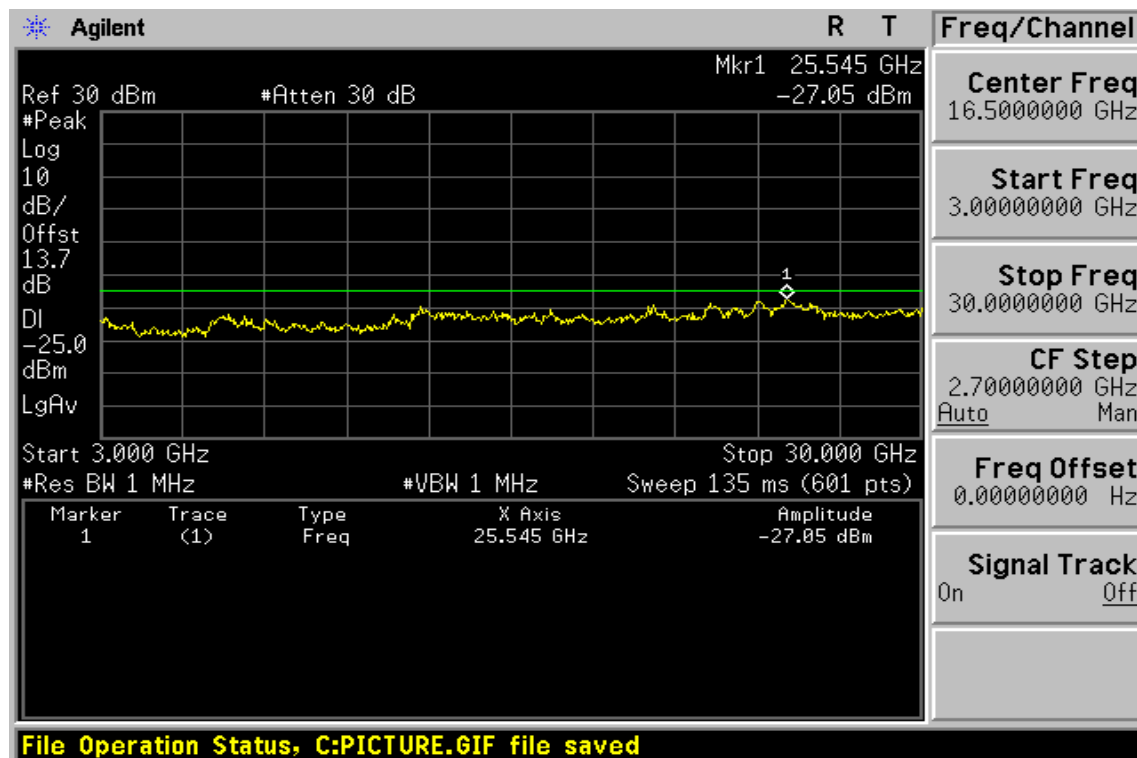
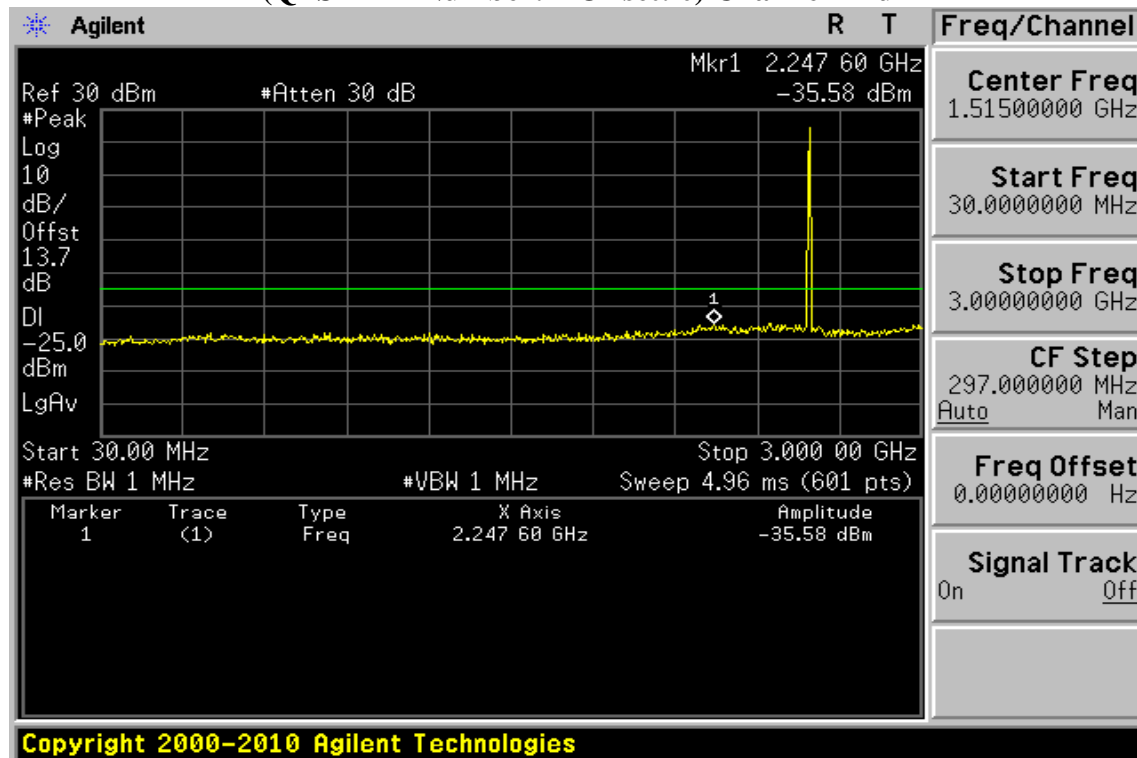
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**Figure 9-194: Out of Band emission at antenna terminals – 20MHz BW LTE-Band 41
(QPSK RB Number: 1 Offset: 0) Channel Mid**



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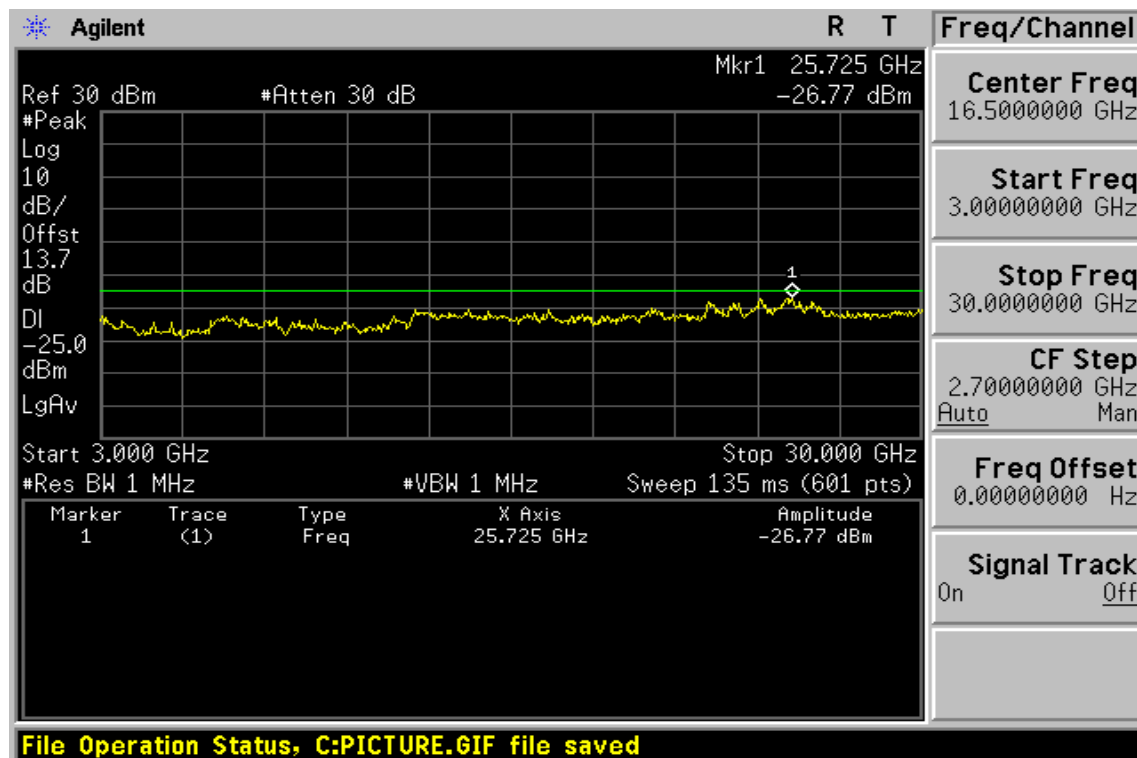
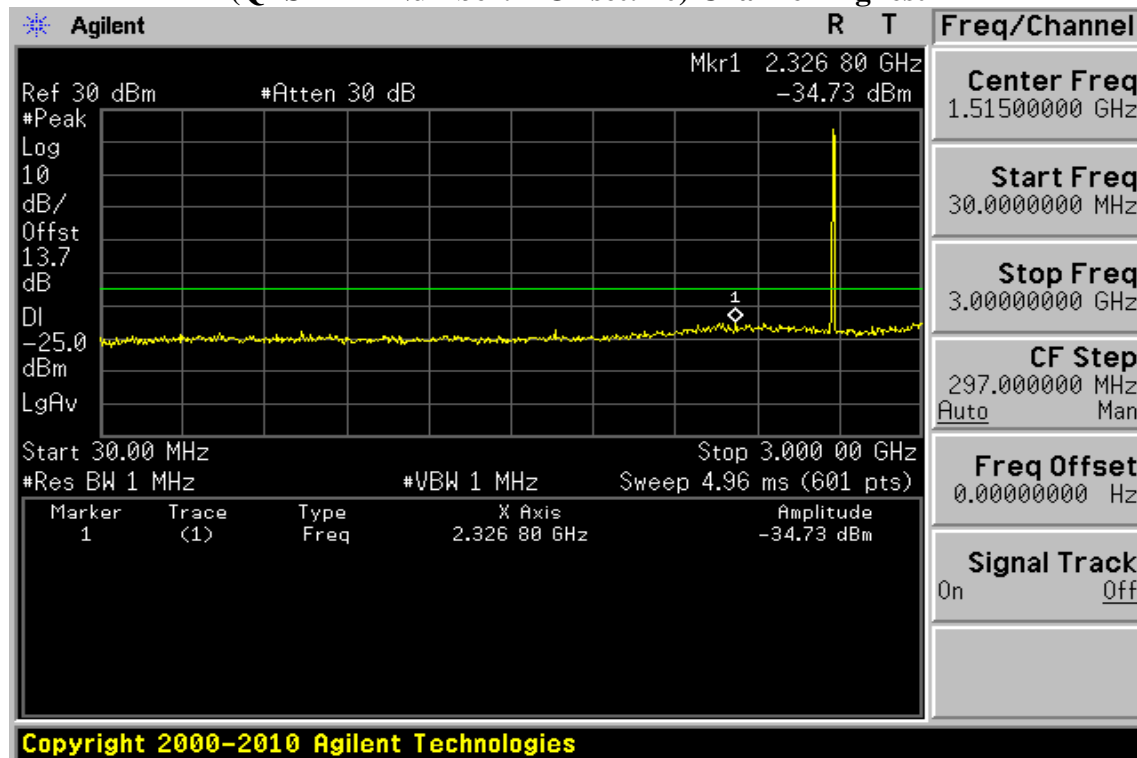
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**Figure 9-195: Out of Band emission at antenna terminals – 20MHz BW LTE-Band 41
(QPSK RB Number: 1 Offset: 10) Channel Highest**



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Figure 9-196: Band edge emission at antenna terminals – 20MHz BW LTE-Band 41 (QPSK RB Number: 1 Offset: 0) Channel Lowest

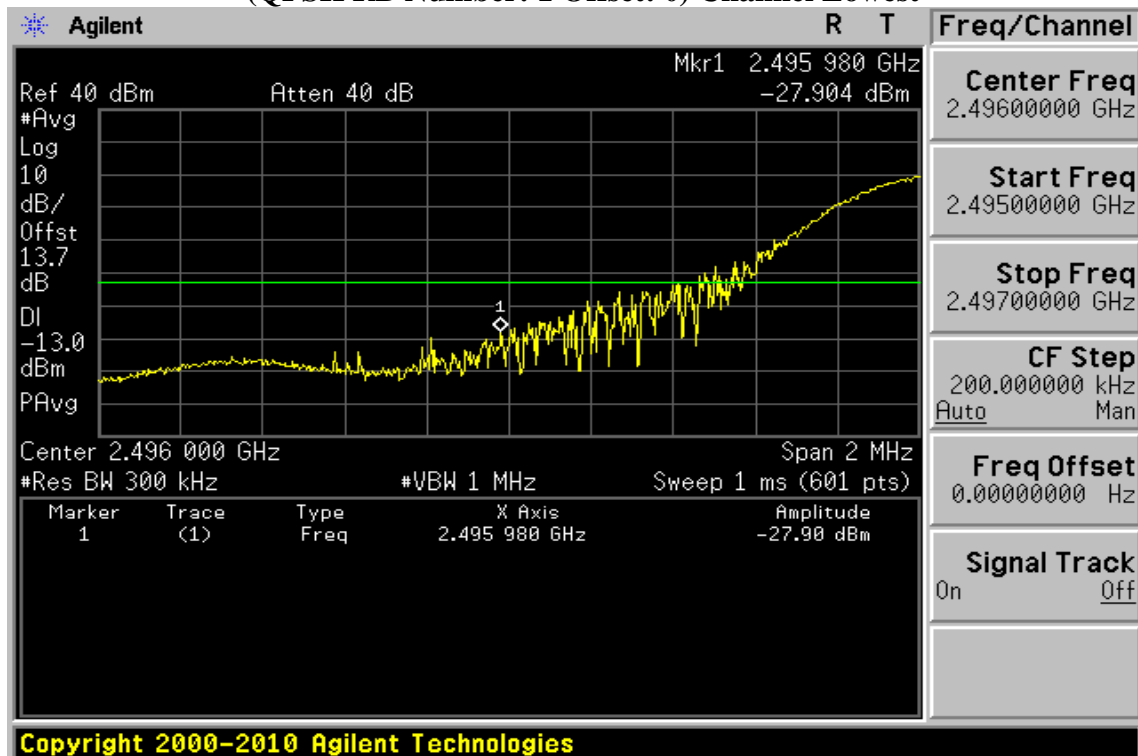
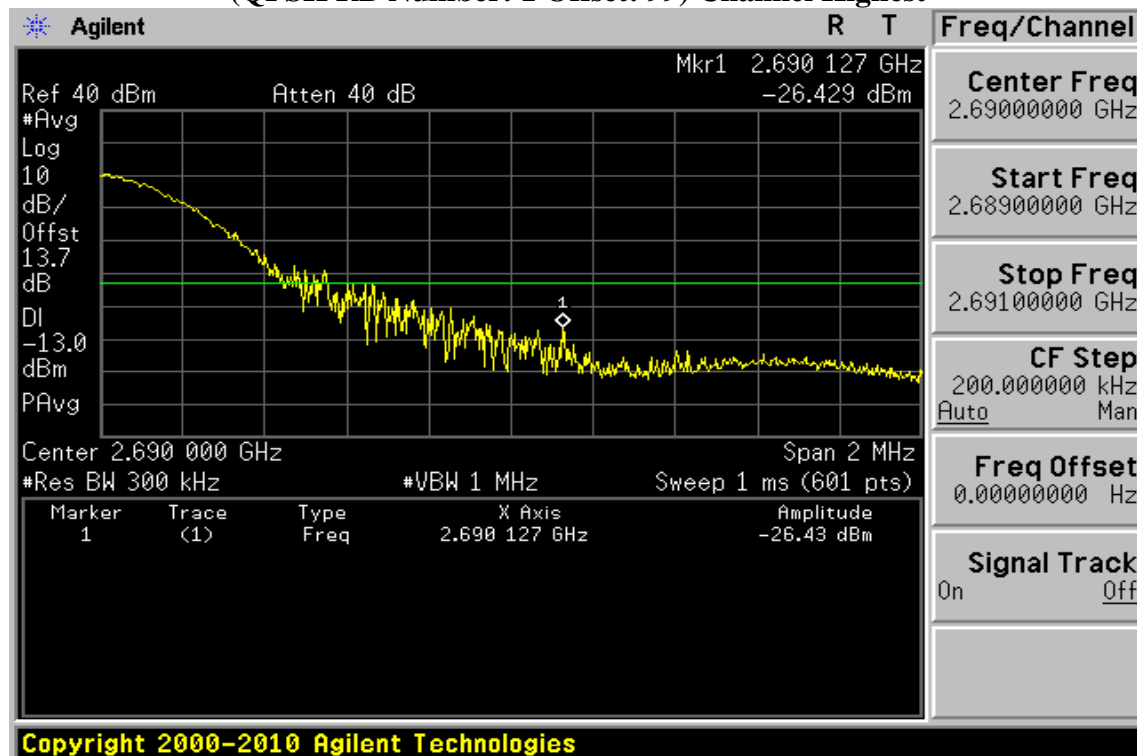


Figure 9-197: Band edge emission at antenna terminals – 20MHz BW LTE-Band 41 (QPSK RB Number: 1 Offset: 99) Channel Highest



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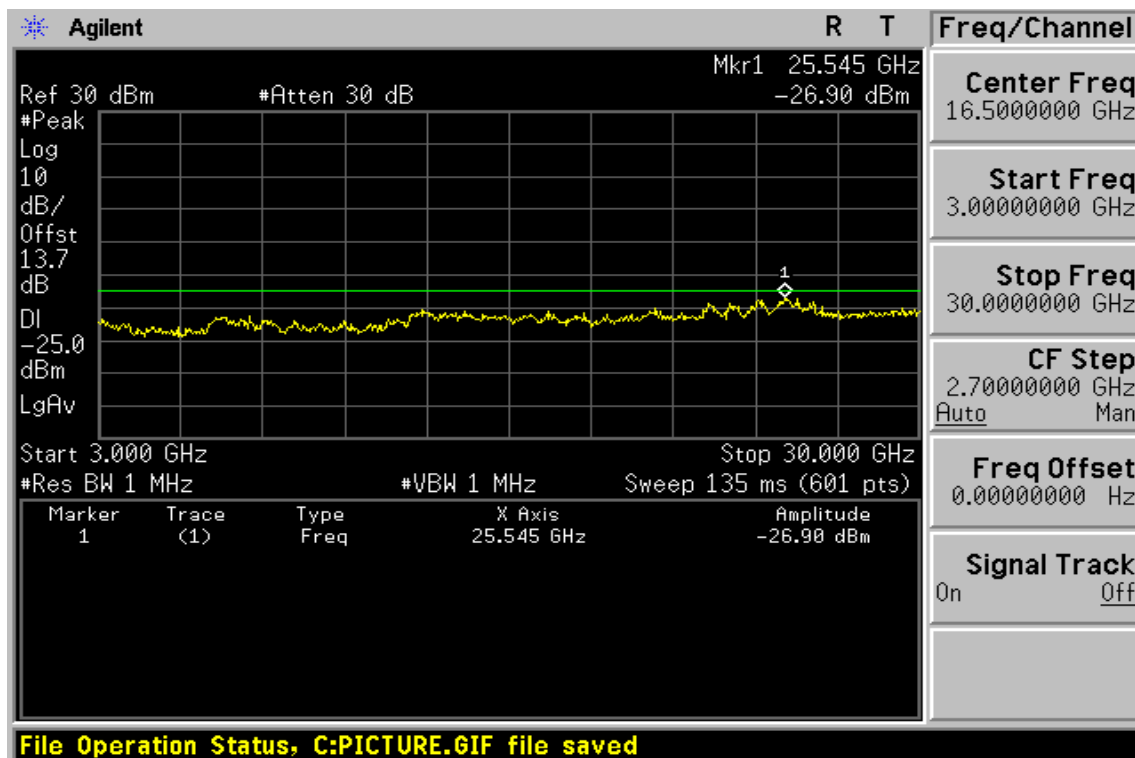
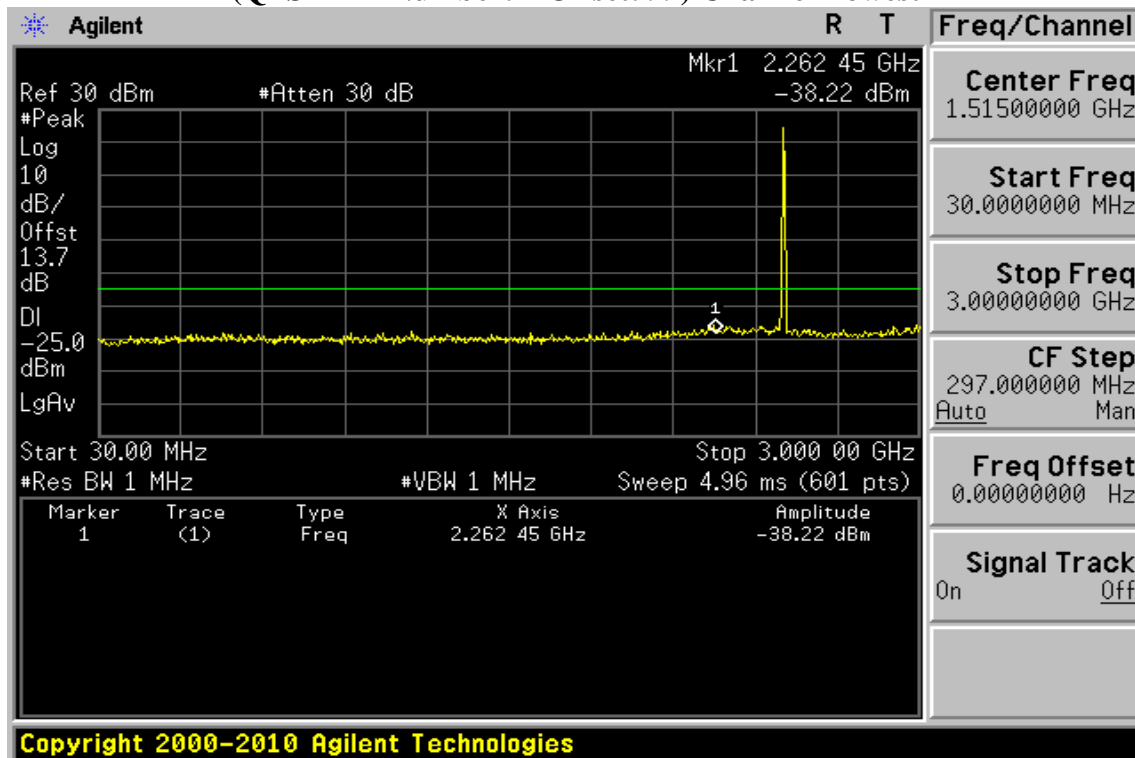
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**Figure 9-198: Out of Band emission at antenna terminals – 20MHz BW LTE-Band 41
(QPSK RB Number: 1 Offset: 99) Channel Lowest**



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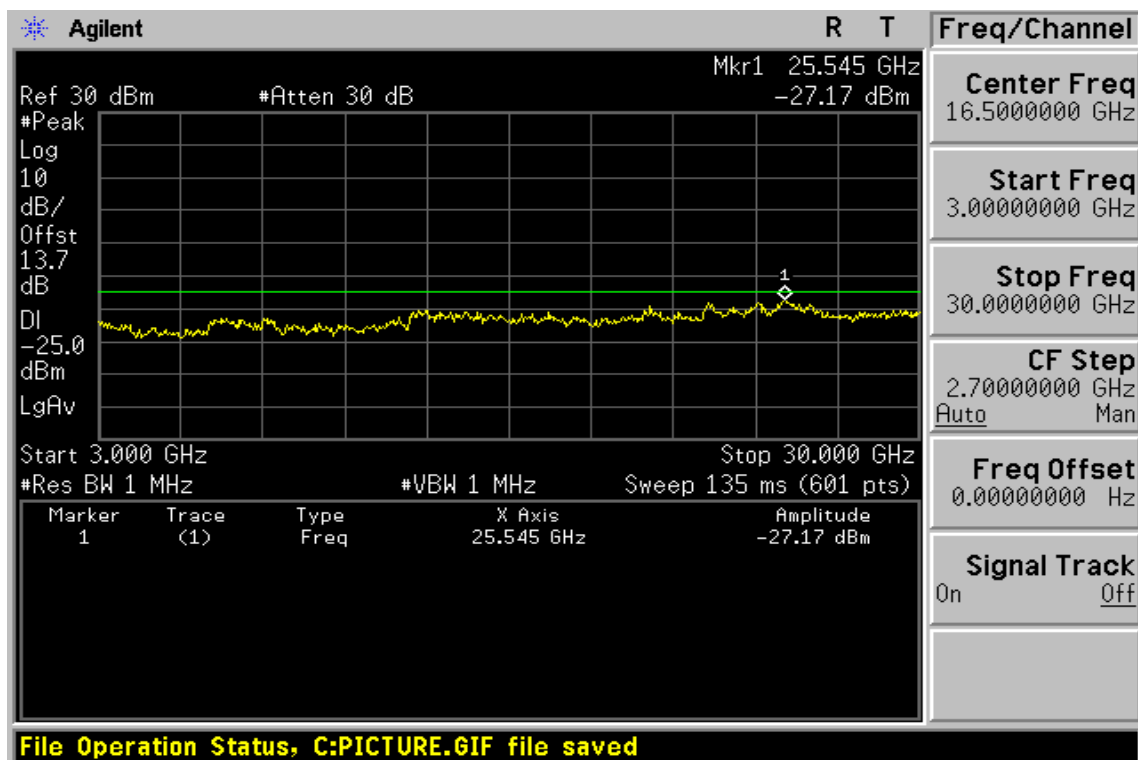
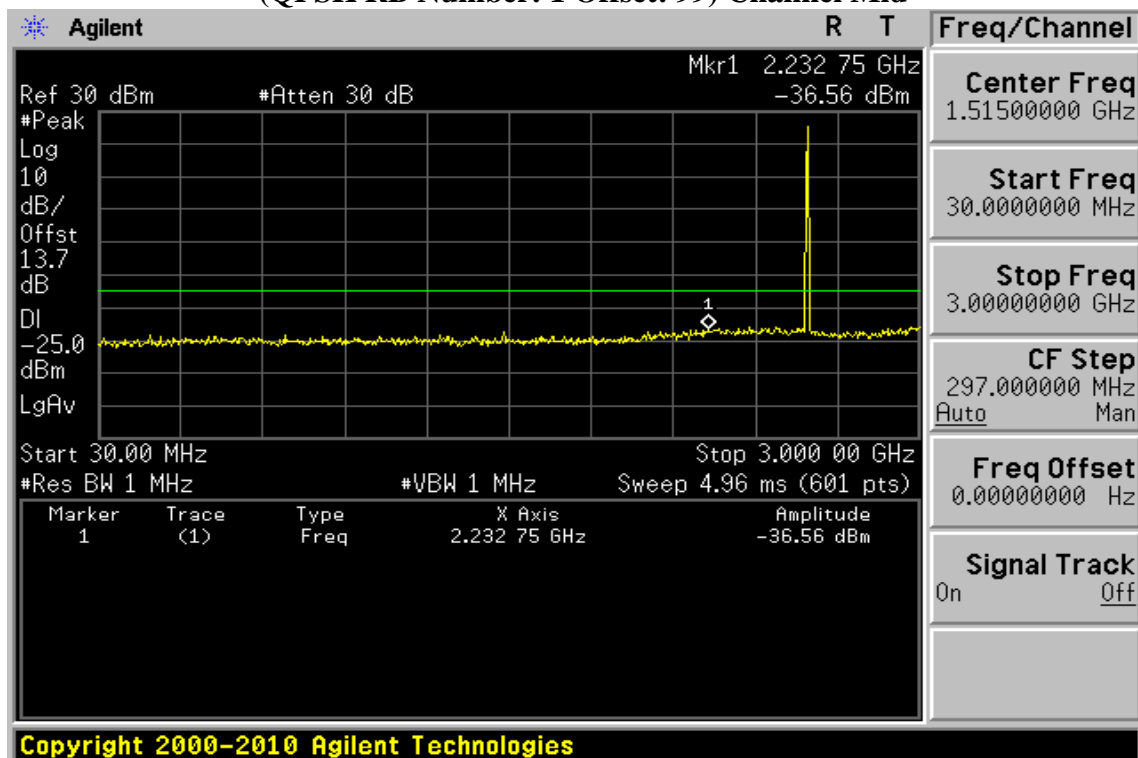
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Figure 9-199: Out of Band emission at antenna terminals – 20MHz BW LTE-Band 41 (QPSK RB Number: 1 Offset: 99) Channel Mid



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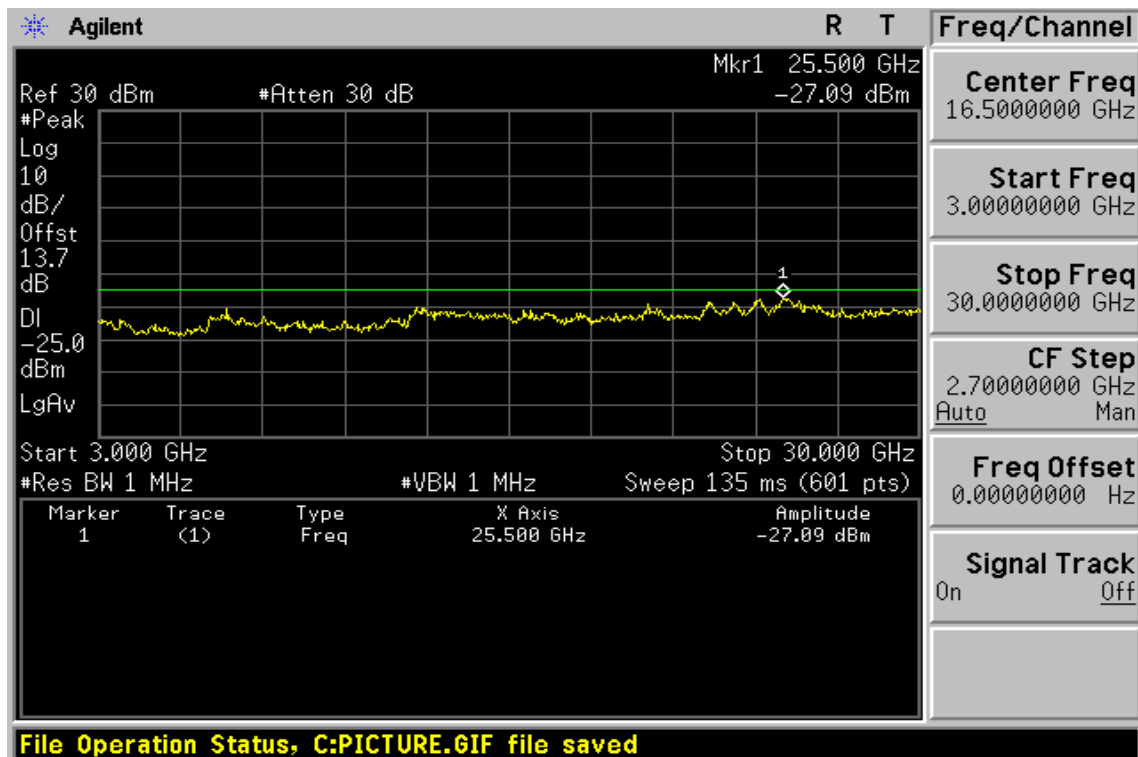
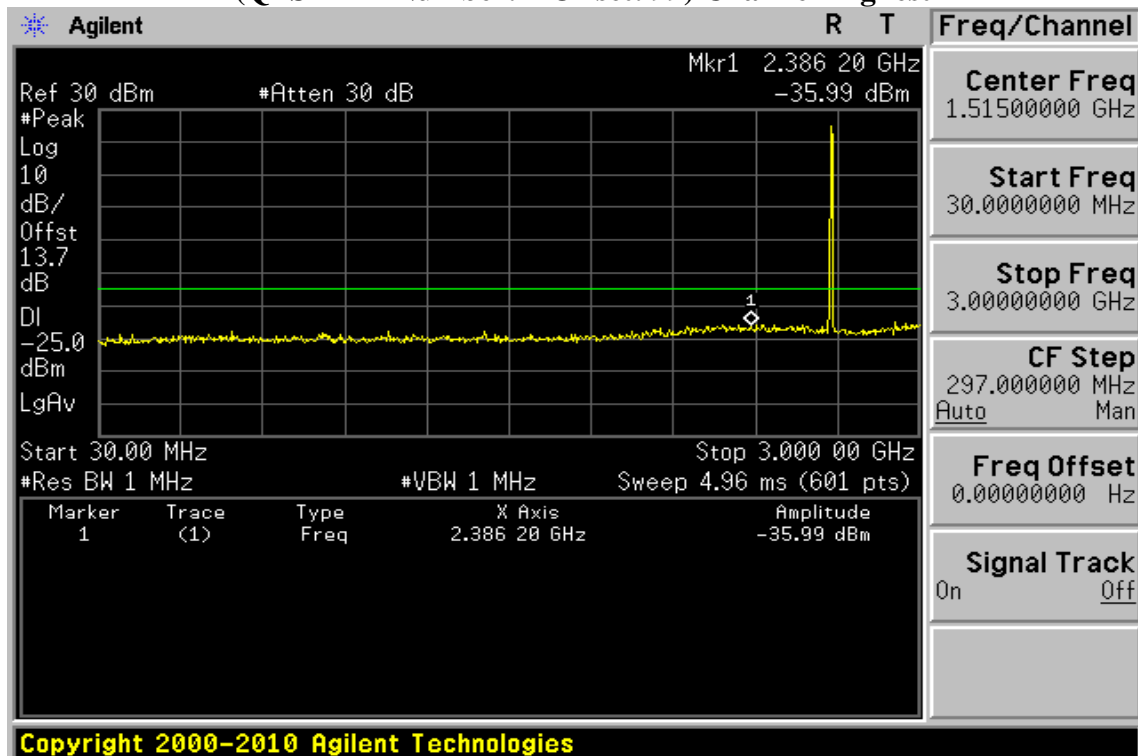
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Figure 9-200: Out of Band emission at antenna terminals – 20MHz BW LTE-Band 41 (QPSK RB Number: 1 Offset: 99) Channel Highest



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Figure 9-201: Band edge emission at antenna terminals – 20MHz BW LTE-Band 41 (QPSK RB Number: 100 Offset: 0) Channel Lowest

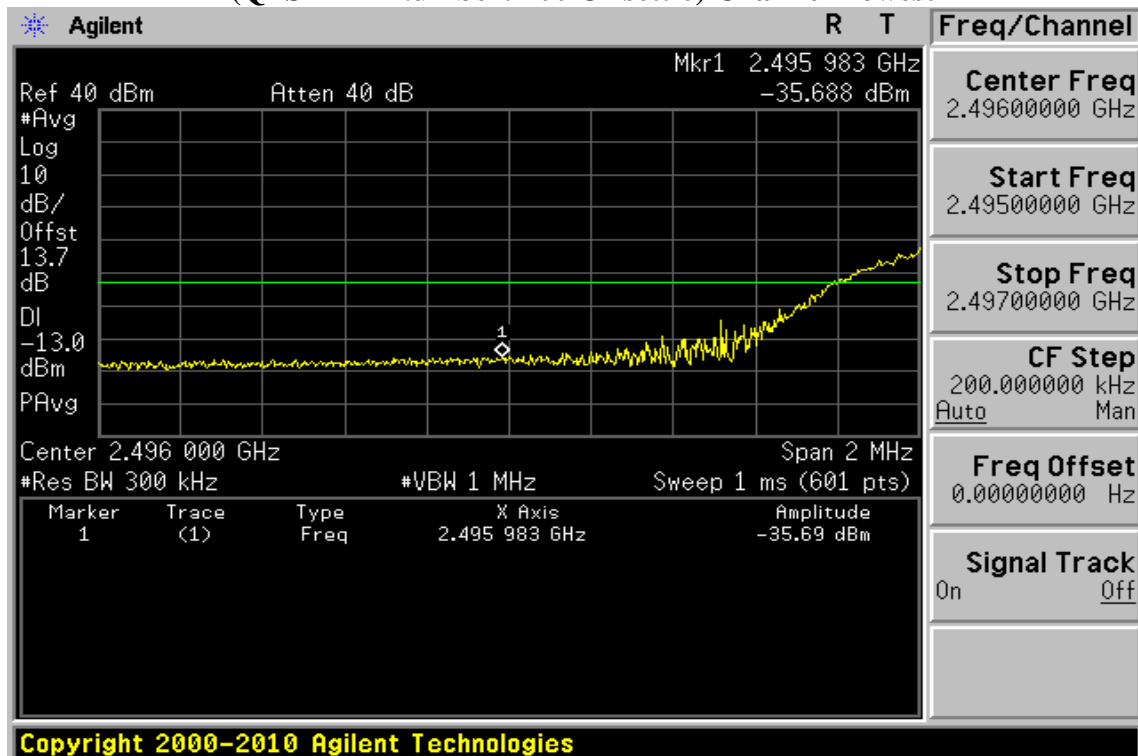
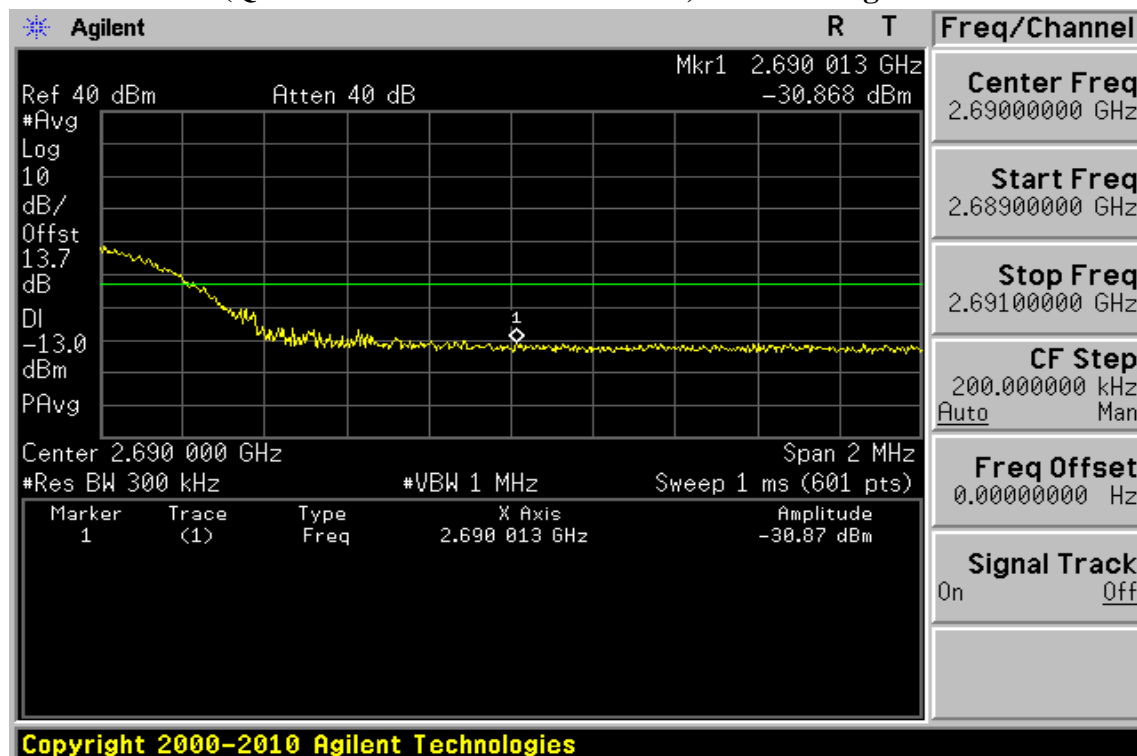


Figure 9-202: Band edge emission at antenna terminals – 20MHz BW LTE-Band 41 (QPSK RB Number: 100 Offset: 0) Channel Highest



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10. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

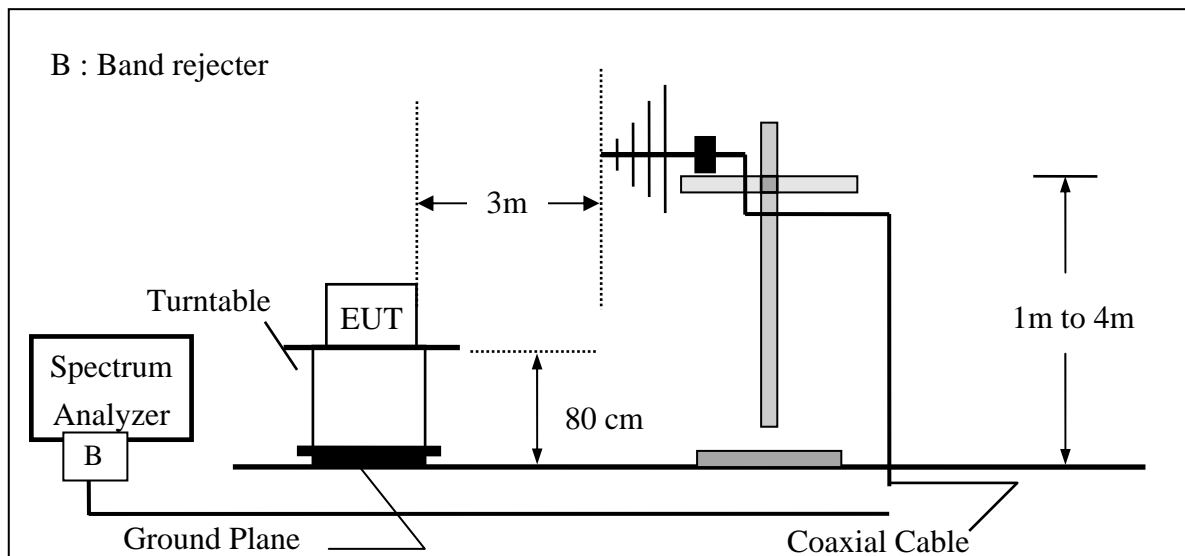
10.1. Standard Applicable:

According to FCC §2.1053,

FCC §22.917(a), §24.238(a), §27.53 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).

10.2. EUT Setup (Block Diagram of Configuration):

Radiated Emission Test Set-Up, Frequency Below 1000MHz



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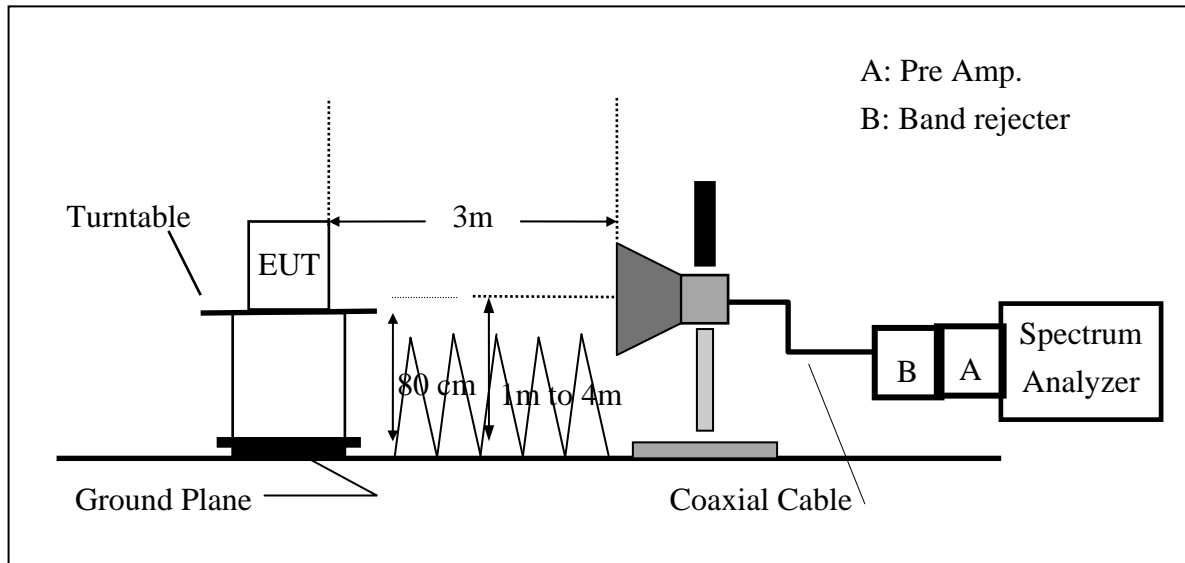
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Radiated Emission Test Set-UP Frequency Over 1 GHz



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.

$$ERP = \text{S.G. output (dBm)} + \text{Antenna Gain (dBd)} - \text{Cable Loss (dB)}$$

$$EIRP = \text{S.G. output (dBm)} + \text{Antenna Gain (dBi)} - \text{Cable Loss (dB)}$$

10.4. Measurement Equipment Used:

Refer to section 2.4 in this report

10.5. Measurement Result:

Refer to attach tabular data sheets.

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Radiated Spurious Emission Measurement Result: CDMA 2000 EVDO Cellular (BC0) Mode

Operation Band	:EVDO BC0	Test Date	:2014-06-11
ARFCN	:CH 1013	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:824.7 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
42.61	S	-54.47	-40.12	-13.49	-0.86	-13.00	-41.47
84.32	S	-67.11	-63.52	-2.51	-1.09	-13.00	-54.11
248.25	S	-70.05	-71.86	3.51	-1.70	-13.00	-57.05
637.22	S	-66.13	-67.20	3.74	-2.67	-13.00	-53.13
769.14	S	-51.31	-51.86	3.44	-2.89	-13.00	-38.31
940.83	S	-62.53	-62.66	3.46	-3.32	-13.00	-49.53
1649.40	H	-46.14	-45.48	3.75	-4.42	-13.00	-33.14
2474.10	H	---					
3298.80	H	---					
4123.50	H	---					
4948.20	H	---					
5772.90	H	---					
6597.60	H	---					
7422.30	H	---					
8247.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + 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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Operation Band	:EVDO BC0	Test Date	:2014-06-11
ARFCN	:CH 1013	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:824.7 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
43.58	S	-51.44	-37.21	-13.35	-0.88	-13.00	-38.44
79.47	S	-67.38	-62.37	-4.02	-1.00	-13.00	-54.38
423.82	S	-72.48	-73.87	3.53	-2.14	-13.00	-59.48
640.13	S	-69.65	-70.74	3.76	-2.67	-13.00	-56.65
770.11	S	-54.35	-54.91	3.45	-2.89	-13.00	-41.35
940.83	S	-63.66	-63.80	3.46	-3.32	-13.00	-50.66
1649.40	H	-38.68	-38.02	3.75	-4.42	-13.00	-25.68
2474.10	H	---					
3298.80	H	---					
4123.50	H	---					
4948.20	H	---					
5772.90	H	---					
6597.60	H	---					
7422.30	H	---					
8247.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + 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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Operation Band	:EVDO BC0	Test Date	:2014-06-11
ARFCN	:CH 384	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:836.52 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
41.64	S	-49.91	-35.44	-13.63	-0.84	-13.00	-36.91
85.29	S	-63.13	-59.81	-2.21	-1.11	-13.00	-50.13
248.25	S	-69.47	-71.28	3.51	-1.70	-13.00	-56.47
526.64	S	-71.01	-72.35	3.77	-2.43	-13.00	-58.01
769.14	S	-53.13	-53.69	3.44	-2.89	-13.00	-40.13
942.77	S	-64.21	-64.34	3.45	-3.33	-13.00	-51.21
1673.04	H	-49.45	-48.71	3.71	-4.45	-13.00	-36.45
2509.56	H	-58.14	-56.42	3.78	-5.49	-13.00	-45.14
3346.08	H	---					
4182.60	H	---					
5019.12	H	---					
5855.64	H	---					
6692.16	H	---					
7528.68	H	---					
8365.20	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + 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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Operation Band	:EVDO BC0	Test Date	:2014-06-11
ARFCN	:CH 384	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:836.52 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
42.61	S	-49.19	-34.84	-13.49	-0.86	-13.00	-36.19
81.41	S	-66.33	-61.89	-3.41	-1.03	-13.00	-53.33
152.22	S	-70.14	-66.66	-2.09	-1.39	-13.00	-57.14
161.92	S	-71.55	-68.64	-1.50	-1.42	-13.00	-58.55
770.11	S	-54.48	-55.04	3.45	-2.89	-13.00	-41.48
940.83	S	-63.39	-63.52	3.46	-3.32	-13.00	-50.39
1673.04	H	-41.84	-41.10	3.71	-4.45	-13.00	-28.84
2509.56	H	-55.49	-53.78	3.78	-5.49	-13.00	-42.49
3346.08	H	---					
4182.60	H	---					
5019.12	H	---					
5855.64	H	---					
6692.16	H	---					
7528.68	H	---					
8365.20	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + 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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Operation Band	:EVDO BC0	Test Date	:2014-06-11
ARFCN	:CH 777	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:848.31 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
42.61	S	-49.86	-35.51	-13.49	-0.86	-13.00	-36.86
85.29	S	-63.57	-60.24	-2.21	-1.11	-13.00	-50.57
241.46	S	-69.79	-71.52	3.41	-1.68	-13.00	-56.79
623.64	S	-66.21	-67.19	3.63	-2.65	-13.00	-53.21
769.14	S	-50.52	-51.07	3.44	-2.89	-13.00	-37.52
941.80	S	-63.22	-63.35	3.46	-3.32	-13.00	-50.22
1696.62	H	-50.94	-50.13	3.66	-4.48	-13.00	-37.94
2544.93	H	-57.39	-55.74	3.89	-5.54	-13.00	-44.39
3393.24	H	---					
4241.55	H	---					
5089.86	H	---					
5938.17	H	---					
6786.48	H	---					
7634.79	H	---					
8483.10	H	---					

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + 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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Operation Band	:EVDO BC0	Test Date	:2014-06-11
ARFCN	:CH 777	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:848.31 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
42.61	S	-49.83	-35.48	-13.49	-0.86	-13.00	-36.83
82.38	S	-66.37	-62.22	-3.11	-1.05	-13.00	-53.37
181.32	S	-74.09	-73.90	1.27	-1.47	-13.00	-61.09
638.19	S	-70.02	-71.10	3.75	-2.67	-13.00	-57.02
897.18	S	-59.46	-59.78	3.57	-3.25	-13.00	-46.46
942.77	S	-64.50	-64.63	3.45	-3.33	-13.00	-51.50
1696.62	H	-43.31	-42.49	3.66	-4.48	-13.00	-30.31
2544.93	H	-55.74	-54.09	3.89	-5.54	-13.00	-42.74
3393.24	H	---					
4241.55	H	---					
5089.86	H	---					
5938.17	H	---					
6786.48	H	---					
7634.79	H	---					
8483.10	H	---					

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + 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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Radiated Spurious Emission Measurement Result: CDMA 2000 EVDO PCS (BC1) Mode

Operation Band	:EVDO BC1	Test Date	:2014-06-11
ARFCN	:CH 25	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:1851.25 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
43.58	S	-42.13	-30.05	-11.20	-0.88	-13.00	-29.13
81.41	S	-59.25	-56.96	-1.26	-1.03	-13.00	-46.25
249.22	S	-70.20	-74.18	5.68	-1.71	-13.00	-57.20
641.10	S	-64.40	-67.65	5.92	-2.67	-13.00	-51.40
771.08	S	-63.85	-66.55	5.60	-2.89	-13.00	-50.85
819.58	S	-64.10	-66.79	5.70	-3.01	-13.00	-51.10
3702.50	H	-37.97	-40.09	8.93	-6.80	-13.00	-24.97
5553.75	H	---					
7405.00	H	---					
9256.25	H	-41.28	-43.80	13.55	-11.03	-13.00	-28.28
11107.50	H	-40.65	-41.98	13.51	-12.18	-13.00	-27.65
12958.75	H	---					
14810.00	H	---					
16661.25	H	---					
18512.50	H	---					

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

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

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

“---” : denotes Noise Floor.

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Operation Band	:EVDO BC1	Test Date	:2014-06-11
ARFCN	:CH 25	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:1851.25 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
42.61	S	-62.91	-50.72	-11.34	-0.86	-13.00	-49.91
82.38	S	-63.05	-61.04	-0.96	-1.05	-13.00	-50.05
248.25	S	-70.43	-74.39	5.66	-1.70	-13.00	-57.43
647.89	S	-65.24	-68.53	5.97	-2.68	-13.00	-52.24
694.45	S	-64.45	-67.66	5.94	-2.73	-13.00	-51.45
768.17	S	-64.69	-67.40	5.59	-2.89	-13.00	-51.69
3702.50	H	-47.17	-49.30	8.93	-6.80	-13.00	-34.17
5553.75	H	---					
7405.00	H	---					
9256.25	H	-46.75	-49.27	13.55	-11.03	-13.00	-33.75
11107.50	H	---					
12958.75	H	---					
14810.00	H	---					
16661.25	H	---					
18512.50	H	---					

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

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

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

“---” : denotes Noise Floor.

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Operation Band	:EVDO BC1	Test Date	:2014-06-11
ARFCN	:CH 600	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:1880 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
44.55	S	-42.54	-30.58	-11.07	-0.90	-13.00	-29.54
82.38	S	-63.22	-61.22	-0.96	-1.05	-13.00	-50.22
645.95	S	-64.69	-67.97	5.96	-2.68	-13.00	-51.69
695.42	S	-63.92	-67.12	5.94	-2.73	-13.00	-50.92
774.96	S	-64.36	-67.07	5.61	-2.90	-13.00	-51.36
823.46	S	-64.30	-66.98	5.70	-3.03	-13.00	-51.30
3760.00	H	-40.88	-42.99	8.96	-6.85	-13.00	-27.88
5640.00	H	---					
7520.00	H	---					
9400.00	H	---					
11280.00	H	---					
13160.00	H	---					
15040.00	H	---					
16920.00	H	---					
18800.00	H	---					

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

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

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

“---” : denotes Noise Floor.

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Operation Band	:EVDO BC1	Test Date	:2014-06-11
ARFCN	:CH 600	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:1880 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
40.67	S	-60.03	-47.58	-11.63	-0.81	-13.00	-47.03
81.41	S	-64.92	-62.63	-1.26	-1.03	-13.00	-51.92
644.01	S	-64.14	-67.41	5.94	-2.68	-13.00	-51.14
709.00	S	-64.79	-67.89	5.86	-2.76	-13.00	-51.79
729.37	S	-64.23	-67.12	5.69	-2.80	-13.00	-51.23
768.17	S	-64.10	-66.80	5.59	-2.89	-13.00	-51.10
3760.00	H	-47.87	-49.98	8.96	-6.85	-13.00	-34.87
5640.00	H	---					
7520.00	H	---					
9400.00	H	---					
11280.00	H	---					
13160.00	H	---					
15040.00	H	---					
16920.00	H	---					
18800.00	H	---					

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

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

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

“---” : denotes Noise Floor.

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Operation Band	:EVDO BC1	Test Date	:2014-06-11
ARFCN	:CH 1175	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:1908.75 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
41.64	S	-44.27	-31.95	-11.48	-0.84	-13.00	-31.27
80.44	S	-63.85	-61.27	-1.57	-1.01	-13.00	-50.85
648.86	S	-64.43	-67.73	5.98	-2.68	-13.00	-51.43
699.30	S	-64.64	-67.84	5.93	-2.74	-13.00	-51.64
766.23	S	-64.57	-67.27	5.58	-2.88	-13.00	-51.57
793.39	S	-64.43	-67.16	5.67	-2.94	-13.00	-51.43
3817.50	H	-31.78	-33.87	9.00	-6.90	-13.00	-18.78
5726.25	H	---					
7635.00	H	---					
9543.75	H	-45.44	-47.83	13.59	-11.20	-13.00	-32.44
11452.50	H	---					
13361.25	H	---					
15270.00	H	---					
17178.75	H	---					
19087.50	H	---					

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

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

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

“---” : denotes Noise Floor.

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Operation Band	:EVDO BC1	Test Date	:2014-06-11
ARFCN	:CH 1175	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:1908.75 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
43.58	S	-55.79	-43.72	-11.20	-0.88	-13.00	-42.79
82.38	S	-65.22	-63.21	-0.96	-1.05	-13.00	-52.22
640.13	S	-63.77	-67.01	5.91	-2.67	-13.00	-50.77
694.45	S	-64.49	-67.70	5.94	-2.73	-13.00	-51.49
769.14	S	-64.12	-66.83	5.59	-2.89	-13.00	-51.12
820.55	S	-64.07	-66.76	5.70	-3.02	-13.00	-51.07
3817.50	H	-42.40	-44.50	9.00	-6.90	-13.00	-29.40
5726.25	H	---					
7635.00	H	---					
9543.75	H	---					
11452.50	H	---					
13361.25	H	---					
15270.00	H	---					
17178.75	H	---					
19087.50	H	---					

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

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

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

“---” : denotes Noise Floor.

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Radiated Spurious Emission Measurement Result: CDMA 2000 EVDO Cellular (BC10) Mode

Operation Band	:EVDO BC10	Test Date	:2014-06-11
ARFCN	:CH 476	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:817.90 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
42.61	S	-49.69	-35.34	-13.49	-0.86	-13.00	-36.70
87.23	S	-63.14	-60.35	-1.64	-1.15	-13.00	-50.15
650.80	S	-66.16	-67.31	3.84	-2.68	-13.00	-53.17
773.99	S	-44.59	-45.15	3.46	-2.90	-13.00	-31.60
871.96	S	-61.54	-61.93	3.57	-3.18	-13.00	-48.55
953.44	S	-59.90	-59.79	3.23	-3.34	-13.00	-46.91
1635.80	H	-47.59	-46.96	3.77	-4.40	-13.00	-34.60
2453.70	H	-58.43	-56.70	3.70	-5.43	-13.00	-45.44
3271.60	H	---					
4089.50	H	---					
4907.40	H	---					
5725.30	H	---					
6543.20	H	---					
7361.10	H	---					
8179.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + 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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Operation Band	:EVDO BC10	Test Date	:2014-06-11
ARFCN	:CH 476	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:817.90 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
42.61	S	-50.74	-36.40	-13.49	-0.86	-13.00	-37.75
83.35	S	-66.31	-62.43	-2.81	-1.07	-13.00	-53.32
187.14	S	-68.07	-68.66	2.07	-1.48	-13.00	-55.08
774.96	S	-46.34	-46.90	3.46	-2.90	-13.00	-33.35
898.15	S	-60.93	-61.24	3.56	-3.25	-13.00	-47.94
950.53	S	-59.60	-59.66	3.40	-3.34	-13.00	-46.61
1635.80	H	-40.19	-39.56	3.77	-4.40	-13.00	-27.20
2453.70	H	-57.85	-56.13	3.70	-5.43	-13.00	-44.86
3271.60	H	---					
4089.50	H	---					
4907.40	H	---					
5725.30	H	---					
6543.20	H	---					
7361.10	H	---					
8179.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + 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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Operation Band	:EVDO BC10	Test Date	:2014-06-11
ARFCN	:CH 580	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:820.50 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
42.61	S	-50.16	-35.81	-13.49	-0.86	-13.00	-37.17
86.26	S	-62.59	-59.54	-1.92	-1.13	-13.00	-49.60
249.22	S	-71.81	-73.63	3.53	-1.71	-13.00	-58.82
774.96	S	-45.04	-45.60	3.46	-2.90	-13.00	-32.05
878.75	S	-60.22	-60.59	3.57	-3.20	-13.00	-47.23
950.53	S	-59.61	-59.68	3.40	-3.34	-13.00	-46.62
1641.00	H	-46.70	-46.07	3.77	-4.40	-13.00	-33.71
2461.50	H	-56.63	-54.91	3.71	-5.44	-13.00	-43.64
3282.00	H	---					
4102.50	H	---					
4923.00	H	---					
5743.50	H	---					
6564.00	H	---					
7384.50	H	---					
8205.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + 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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Operation Band	:EVDO BC10	Test Date	:2014-06-11
ARFCN	:CH 580	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:820.50 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
41.64	S	-51.25	-36.78	-13.63	-0.84	-13.00	-38.26
82.38	S	-66.38	-62.23	-3.11	-1.05	-13.00	-53.39
177.44	S	-73.29	-72.52	0.69	-1.46	-13.00	-60.30
774.96	S	-46.49	-47.05	3.46	-2.90	-13.00	-33.50
903.97	S	-55.55	-55.84	3.55	-3.27	-13.00	-42.56
954.41	S	-61.31	-61.14	3.17	-3.34	-13.00	-48.32
1641.00	H	-39.28	-38.65	3.77	-4.40	-13.00	-26.29
2461.50	H	-57.27	-55.55	3.71	-5.44	-13.00	-44.28
3282.00	H	---					
4102.50	H	---					
4923.00	H	---					
5743.50	H	---					
6564.00	H	---					
7384.50	H	---					
8205.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + 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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Operation Band	:EVDO BC10	Test Date	:2014-06-11
ARFCN	:CH 684	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:823.10 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
41.64	S	-50.50	-36.04	-13.63	-0.84	-13.00	-37.51
86.26	S	-62.58	-59.53	-1.92	-1.13	-13.00	-49.59
248.25	S	-71.22	-73.03	3.51	-1.70	-13.00	-58.23
769.14	S	-45.76	-46.32	3.44	-2.89	-13.00	-32.77
878.75	S	-63.13	-63.50	3.57	-3.20	-13.00	-50.14
937.92	S	-58.94	-59.08	3.47	-3.32	-13.00	-45.95
1646.20	H	-46.74	-46.08	3.76	-4.42	-13.00	-33.75
2469.30	H	-56.17	-54.44	3.71	-5.44	-13.00	-43.18
3292.40	H	---					
4115.50	H	---					
4938.60	H	---					
5761.70	H	---					
6584.80	H	---					
7407.90	H	---					
8231.00	H	---					

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + 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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Operation Band	:EVDO BC10	Test Date	:2014-06-11
ARFCN	:CH 684	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:823.10 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
42.61	S	-51.33	-36.98	-13.49	-0.86	-13.00	-38.34
82.38	S	-66.22	-62.06	-3.11	-1.05	-13.00	-53.23
247.28	S	-68.95	-70.75	3.50	-1.70	-13.00	-55.96
771.08	S	-48.78	-49.34	3.45	-2.89	-13.00	-35.79
878.75	S	-61.54	-61.91	3.57	-3.20	-13.00	-48.55
942.77	S	-60.58	-60.71	3.45	-3.33	-13.00	-47.59
1646.20	H	-39.88	-39.22	3.76	-4.42	-13.00	-26.89
2469.30	H	-56.39	-54.66	3.71	-5.44	-13.00	-43.40
3292.40	H	---					
4115.50	H	---					
4938.60	H	---					
5761.70	H	---					
6584.80	H	---					
7407.90	H	---					
8231.00	H	---					

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + 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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Radiated Spurious Emission Measurement Result: 5MHz BW LTE-Band 25(The Worst Case)

Operation Band	:LTE B25	Test Date	:2014-06-23
ARFCN	:CH 26065 16QAM BW 5 RB1 24	Temp./Humi.	:22.1 deg_C / 68 RH
Fundamental Frequency	:1852.5 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Safe
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	Margin dB
41.64	S	-47.00	-34.68	-11.48	-0.84	-13.00	-34.00
85.29	S	-60.22	-59.04	-0.06	-1.11	-13.00	-47.22
248.25	S	-70.37	-74.33	5.66	-1.70	-13.00	-57.37
547.01	S	-69.08	-72.54	5.94	-2.48	-13.00	-56.08
651.77	S	-64.31	-67.61	5.99	-2.68	-13.00	-51.31
920.46	S	-63.32	-65.69	5.66	-3.29	-13.00	-50.32
3705.00	H	-40.12	-42.25	8.93	-6.80	-13.00	-27.12
5557.00	H	-49.71	-51.83	10.52	-8.41	-13.00	-36.71
7410.00	H	---					
9262.50	H	---					
11115.00	H	---					
12967.50	H	---					
14820.00	H	---					
16672.50	H	---					
18525.00	H	---					

EIRP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + 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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Operation Band	:LTE B25	Test Date	:2014-06-23
ARFCN	:CH 26065 16QAM BW 5 RB1 24	Temp./Humi.	:22.1 deg_C / 68 RH
Fundamental Frequency	:1852.5 MHz	Engineer	:Curry
Operation Mode	:TX LOW	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:E2 Plane		

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
42.61	S	-61.09	-48.89	-11.34	-0.86	-13.00	-48.09
85.29	S	-58.53	-57.35	-0.06	-1.11	-13.00	-45.53
181.32	S	-68.34	-70.29	3.42	-1.47	-13.00	-55.34
530.52	S	-68.21	-71.70	5.93	-2.44	-13.00	-55.21
648.86	S	-64.29	-67.59	5.98	-2.68	-13.00	-51.29
898.15	S	-63.46	-65.92	5.71	-3.25	-13.00	-50.46
3705.00	H	-44.85	-46.98	8.93	-6.80	-13.00	-31.85
5557.00	H	-50.90	-53.02	10.52	-8.41	-13.00	-37.90
7410.00	H	---					
9262.50	H	---					
11115.00	H	---					
12967.50	H	---					
14820.00	H	---					
16672.50	H	---					
18525.00	H	---					

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

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

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

“---” : denotes Noise Floor.

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Operation Band	:LTE B25	Test Date	:2014-06-23
ARFCN	:CH 26365 16QAM BW 5 RB1 24	Temp./Humi.	:22.1 deg_C / 68 RH
Fundamental Frequency	:1882.5 MHz	Engineer	:Curry
Operation Mode	:TX MID	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:E2 Plane		

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
42.61	S	-47.35	-35.15	-11.34	-0.86	-13.00	-34.35
84.32	S	-60.33	-58.88	-0.36	-1.09	-13.00	-47.33
295.78	S	-70.19	-73.91	5.57	-1.86	-13.00	-57.19
536.34	S	-69.28	-72.75	5.93	-2.45	-13.00	-56.28
772.05	S	-62.96	-65.67	5.60	-2.89	-13.00	-49.96
911.73	S	-62.87	-65.28	5.68	-3.28	-13.00	-49.87
3765.00	H	-41.09	-43.20	8.96	-6.86	-13.00	-28.09
5647.00	H	-50.61	-52.69	10.56	-8.48	-13.00	-37.61
7530.00	H	---					
9412.50	H	---					
11295.00	H	---					
13177.50	H	---					
15060.00	H	---					
16942.50	H	---					
18825.00	H	---					

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

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

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

“---” : denotes Noise Floor.

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Operation Band	:LTE B25	Test Date	:2014-06-23
ARFCN	:CH 26365 16QAM BW 5 RB1 24	Temp./Humi.	:22.1 deg_C / 68 RH
Fundamental Frequency	:1882.5 MHz	Engineer	:Curry
Operation Mode	:TX MID	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:E2 Plane		

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
41.64	S	-61.54	-49.22	-11.48	-0.84	-13.00	-48.54
85.29	S	-58.46	-57.29	-0.06	-1.11	-13.00	-45.46
180.35	S	-68.38	-70.20	3.28	-1.46	-13.00	-55.38
521.79	S	-69.72	-73.23	5.92	-2.41	-13.00	-56.72
644.98	S	-64.20	-67.47	5.95	-2.68	-13.00	-51.20
916.58	S	-63.55	-65.94	5.67	-3.29	-13.00	-50.55
3765.00	H	-48.38	-50.49	8.96	-6.86	-13.00	-35.38
5647.50	H	---					
7530.00	H	---					
9412.50	H	---					
11295.00	H	---					
13177.50	H	---					
15060.00	H	---					
16942.50	H	---					
18825.00	H	---					

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

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

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

“---” : denotes Noise Floor.

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Operation Band	:LTE B25	Test Date	:2014-06-23
ARFCN	:CH 26665 16QAM BW 5 RB1 24	Temp./Humi.	:22.1 deg_C / 68 RH
Fundamental Frequency	:1912.5 MHz	Engineer	:Curry
Operation Mode	:TX HIGH	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:E2 Plane		

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
40.67	S	-51.83	-39.39	-11.63	-0.81	-13.00	-38.83
86.26	S	-63.57	-62.66	0.23	-1.13	-13.00	-50.57
279.29	S	-70.33	-74.01	5.48	-1.81	-13.00	-57.33
527.61	S	-68.98	-72.47	5.93	-2.43	-13.00	-55.98
647.89	S	-64.04	-67.33	5.97	-2.68	-13.00	-51.04
943.74	S	-63.14	-65.41	5.60	-3.33	-13.00	-50.14
3825.00	H	-36.02	-38.11	9.00	-6.91	-13.00	-23.02
5737.50	H	---					
7650.00	H	---					
9562.50	H	---					
11475.00	H	---					
13387.50	H	---					
15300.00	H	---					
17212.50	H	---					
19125.00	H	---					

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

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

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

“---” : denotes Noise Floor.

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Operation Band	:LTE B25	Test Date	:2014-06-23
ARFCN	:CH 26665 16QAM BW 5 RB1 24	Temp./Humi.	:22.1 deg_C / 68 RH
Fundamental Frequency	:1912.5 MHz	Engineer	:Curry
Operation Mode	:TX HIGH	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:E2 Plane		

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
41.64	S	-65.83	-53.52	-11.48	-0.84	-13.00	-52.83
85.29	S	-62.36	-61.19	-0.06	-1.11	-13.00	-49.36
183.26	S	-70.20	-72.42	3.69	-1.47	-13.00	-57.20
461.65	S	-70.39	-73.81	5.67	-2.25	-13.00	-57.39
649.83	S	-64.00	-67.30	5.99	-2.68	-13.00	-51.00
951.50	S	-63.09	-65.25	5.50	-3.34	-13.00	-50.09
3825.00	H	-45.85	-47.95	9.00	-6.91	-13.00	-32.85
5737.50	H	---					
7650.00	H	---					
9562.50	H	---					
11475.00	H	---					
13387.50	H	---					
15300.00	H	---					
17212.50	H	---					
19125.00	H	---					

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

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

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

“---” : denotes Noise Floor.

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

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Radiated Spurious Emission Measurement Result: 1.4MHz BW LTE-Band 26(The Worst Case)

Operation Band	:LTE B26	Test Date	:2014-06-23
ARFCN	:CH 26797 16QAM BW 1.4 RB1 5	Temp./Humi.	:22.1 deg_C / 68 RH
Fundamental Frequency	:824.7 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
41.64	S	-52.48	-38.01	-13.63	-0.84	-13.00	-39.48
86.26	S	-64.70	-61.65	-1.92	-1.13	-13.00	-51.70
257.95	S	-71.97	-73.80	3.57	-1.74	-13.00	-58.97
508.21	S	-72.51	-73.90	3.76	-2.37	-13.00	-59.51
655.65	S	-66.50	-67.65	3.83	-2.69	-13.00	-53.50
766.23	S	-66.22	-66.77	3.43	-2.88	-13.00	-53.22
1649.40	H	-41.12	-40.46	3.75	-4.42	-13.00	-28.12
2474.10	H	-51.87	-50.14	3.72	-5.45	-13.00	-38.87
3298.80	H	---					
4123.50	H	---					
4948.20	H	---					
5772.90	H	---					
6597.60	H	---					
7422.30	H	---					
8247.00	H	---					

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

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

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

“---” : denotes Noise Floor.

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Operation Band	:LTE B26	Test Date	:2014-06-23
ARFCN	:CH 26797 16QAM BW 1.4 RB1 5	Temp./Humi.	:22.1 deg_C / 68 RH
Fundamental Frequency	:824.7 MHz	Engineer	:Curry
Operation Mode	:TX LOW	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:E1 Plane		

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
42.61	S	-65.52	-51.17	-13.49	-0.86	-13.00	-52.52
87.23	S	-61.96	-59.17	-1.64	-1.15	-13.00	-48.96
253.10	S	-71.40	-73.23	3.55	-1.72	-13.00	-58.40
519.85	S	-70.71	-72.08	3.77	-2.41	-13.00	-57.71
708.03	S	-66.60	-67.56	3.72	-2.76	-13.00	-53.60
773.99	S	-65.46	-66.02	3.46	-2.90	-13.00	-52.46
1649.40	H	-43.15	-42.48	3.75	-4.42	-13.00	-30.15
2474.10	H	-58.65	-56.92	3.72	-5.45	-13.00	-45.65
3298.80	H	---					
4123.50	H	---					
4948.20	H	---					
5772.90	H	---					
6597.60	H	---					
7422.30	H	---					
8247.00	H	---					

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

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

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

“---” : denotes Noise Floor.

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Operation Band	:LTE B26	Test Date	:2014-06-23
ARFCN	:CH 26915 16QAM BW 1.4 RB1 5	Temp./Humi.	:22.1 deg_C / 68 RH
Fundamental Frequency	:836.5 MHz	Engineer	:Curry
Operation Mode	:TX MID	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:E1 Plane		

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
41.64	S	-52.13	-37.66	-13.63	-0.84	-13.00	-39.13
86.26	S	-64.48	-61.43	-1.92	-1.13	-13.00	-51.48
264.74	S	-72.86	-74.59	3.50	-1.76	-13.00	-59.86
371.44	S	-72.30	-73.92	3.64	-2.02	-13.00	-59.30
600.36	S	-68.17	-69.00	3.45	-2.62	-13.00	-55.17
772.05	S	-65.82	-66.38	3.45	-2.89	-13.00	-52.82
1673.00	H	-46.62	-45.88	3.71	-4.45	-13.00	-33.62
2509.00	H	-55.49	-53.78	3.78	-5.49	-13.00	-42.49
3346.00	H	---					
4182.50	H	---					
5019.00	H	---					
5855.50	H	---					
6692.00	H	---					
7528.50	H	---					
8365.00	H	---					

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

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

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

“---” : denotes Noise Floor.

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Operation Band	:LTE B26	Test Date	:2014-06-23
ARFCN	:CH 26915 16QAM BW 1.4 RB1 5	Temp./Humi.	:22.1 deg_C / 68 RH
Fundamental Frequency	:836.5 MHz	Engineer	:Curry
Operation Mode	:TX MID	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:E1 Plane		

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
42.61	S	-66.31	-51.96	-13.49	-0.86	-13.00	-53.31
87.23	S	-62.17	-59.39	-1.64	-1.15	-13.00	-49.17
181.32	S	-71.97	-71.77	1.27	-1.47	-13.00	-58.97
263.77	S	-72.20	-73.96	3.51	-1.76	-13.00	-59.20
567.38	S	-71.17	-72.30	3.66	-2.54	-13.00	-58.17
643.04	S	-66.25	-67.36	3.79	-2.67	-13.00	-53.25
1673.00	H	-46.18	-45.44	3.71	-4.45	-13.00	-33.18
2509.00	H	-60.11	-58.40	3.78	-5.49	-13.00	-47.11
3346.00	H	---					
4182.50	H	---					
5019.00	H	---					
5855.50	H	---					
6692.00	H	---					
7528.50	H	---					
8365.00	H	---					

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

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

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

“---” : denotes Noise Floor.

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Operation Band	:LTE B26	Test Date	:2014-06-23
ARFCN	:CH 27033 16QAM BW 1.4 RB1 5	Temp./Humi.	:22.1 deg_C / 68 RH
Fundamental Frequency	:848.3 MHz	Engineer	:Curry
Operation Mode	:TX HIGH	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:E1 Plane		

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
42.61	S	-52.76	-38.41	-13.49	-0.86	-13.00	-39.76
87.23	S	-65.20	-62.42	-1.64	-1.15	-13.00	-52.20
259.89	S	-73.25	-75.08	3.58	-1.74	-13.00	-60.25
521.79	S	-71.75	-73.11	3.77	-2.41	-13.00	-58.75
636.25	S	-66.19	-67.26	3.73	-2.67	-13.00	-53.19
770.11	S	-66.11	-66.67	3.45	-2.89	-13.00	-53.11
1696.60	H	-50.78	-49.96	3.66	-4.48	-13.00	-37.78
2544.90	H	-55.19	-53.53	3.89	-5.54	-13.00	-42.19
3393.20	H	---					
4241.50	H	---					
5089.80	H	---					
5938.10	H	---					
6786.40	H	---					
7634.70	H	---					
8483.00	H	---					

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

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

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

“---” : denotes Noise Floor.

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Operation Band	:LTE B26	Test Date	:2014-06-23
ARFCN	:CH 27033 16QAM BW 1.4 RB1 5	Temp./Humi.	:22.1 deg_C / 68 RH
Fundamental Frequency	:848.3 MHz	Engineer	:Curry
Operation Mode	:TX HIGH	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:E1 Plane		

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
42.61	S	-64.79	-50.44	-13.49	-0.86	-13.00	-51.79
87.23	S	-61.44	-58.66	-1.64	-1.15	-13.00	-48.44
180.35	S	-71.03	-70.70	1.13	-1.46	-13.00	-58.03
335.55	S	-72.44	-74.09	3.60	-1.95	-13.00	-59.44
567.38	S	-70.75	-71.88	3.66	-2.54	-13.00	-57.75
647.89	S	-66.01	-67.16	3.82	-2.68	-13.00	-53.01
1696.60	H	-49.46	-48.64	3.66	-4.48	-13.00	-36.46
2544.90	H	-61.30	-59.64	3.89	-5.54	-13.00	-48.30
3393.20	H	---					
4241.50	H	---					
5089.80	H	---					
5938.10	H	---					
6786.40	H	---					
7634.70	H	---					
8483.00	H	---					

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

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

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

“---” : denotes Noise Floor.

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Radiated Spurious Emission Measurement Result: 5MHz BW LTE-Band 26 (The Worst case)

Operation Band	:LTE B26	Test Date	:2014-06-23
ARFCN	:CH 26715 16QAM BW 5 RB1 24	Temp./Humi.	:22.1 deg_C / 68 RH
Fundamental Frequency	:816.5 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
41.64	S	-51.24	-36.78	-13.63	-0.84	-13.00	-38.24
87.23	S	-64.53	-61.75	-1.64	-1.15	-13.00	-51.53
269.59	S	-72.54	-74.18	3.41	-1.78	-13.00	-59.54
291.90	S	-73.48	-75.06	3.43	-1.85	-13.00	-60.48
522.76	S	-71.01	-72.36	3.77	-2.42	-13.00	-58.01
671.17	S	-66.15	-67.25	3.81	-2.71	-13.00	-53.15
1633.00	H	-41.06	-40.45	3.78	-4.40	-13.00	-28.06
2449.50	H	-53.10	-51.38	3.70	-5.42	-13.00	-40.10
3266.00	H	---					
4082.50	H	---					
4899.00	H	---					
5715.50	H	---					
6532.00	H	---					
7348.50	H	---					
8165.00	H	---					

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

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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Operation Band	:LTE B26	Test Date	:2014-06-23
ARFCN	:CH 26715 16QAM BW 5 RB1 24	Temp./Humi.	:22.1 deg_C / 68 RH
Fundamental Frequency	:816.5 MHz	Engineer	:Curry
Operation Mode	:TX LOW	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:E1 Plane		

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
41.64	S	-65.67	-51.21	-13.63	-0.84	-13.00	-52.67
86.26	S	-61.72	-58.66	-1.92	-1.13	-13.00	-48.72
179.38	S	-71.07	-70.60	0.99	-1.46	-13.00	-58.07
301.60	S	-71.31	-72.87	3.43	-1.87	-13.00	-58.31
559.62	S	-71.40	-72.60	3.72	-2.52	-13.00	-58.40
677.96	S	-66.58	-67.67	3.81	-2.72	-13.00	-53.58
1633.00	H	-42.75	-42.13	3.78	-4.40	-13.00	-29.75
2449.50	H	-58.71	-56.99	3.70	-5.42	-13.00	-45.71
3266.00	H	---					
4082.50	H	---					
4899.00	H	---					
5715.50	H	---					
6532.00	H	---					
7348.50	H	---					
8165.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + 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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Operation Band	:LTE B26	Test Date	:2014-06-23
ARFCN	:CH 26740 16QAM BW 5 RB1 24	Temp./Humi.	:22.1 deg_C / 68 RH
Fundamental Frequency	:819.0 MHz	Engineer	:Curry
Operation Mode	:TX MID	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:E1 Plane		

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
41.64	S	-50.81	-36.34	-13.63	-0.84	-13.00	-37.81
87.23	S	-63.31	-60.53	-1.64	-1.15	-13.00	-50.31
249.22	S	-72.52	-74.34	3.53	-1.71	-13.00	-59.52
295.78	S	-72.72	-74.29	3.42	-1.86	-13.00	-59.72
541.19	S	-70.90	-72.21	3.78	-2.47	-13.00	-57.90
760.41	S	-66.13	-66.68	3.42	-2.87	-13.00	-53.13
1638.00	H	-40.42	-39.79	3.77	-4.40	-13.00	-27.42
2457.00	H	-52.27	-50.55	3.70	-5.43	-13.00	-39.27
3276.00	H	---					
4095.00	H	---					
4914.00	H	---					
5733.00	H	---					
6552.00	H	---					
7371.00	H	---					
8190.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + 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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Operation Band	:LTE B26	Test Date	:2014-06-23
ARFCN	:CH 26740 16QAM BW 5 RB1 24	Temp./Humi.	:22.1 deg_C / 68 RH
Fundamental Frequency	:819.0 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
41.64	S	-64.52	-50.05	-13.63	-0.84	-13.00	-51.52
86.26	S	-60.50	-57.45	-1.92	-1.13	-13.00	-47.50
180.35	S	-70.62	-70.29	1.13	-1.46	-13.00	-57.62
409.27	S	-72.95	-74.44	3.59	-2.10	-13.00	-59.95
514.03	S	-71.38	-72.76	3.77	-2.39	-13.00	-58.38
699.30	S	-66.49	-67.54	3.78	-2.74	-13.00	-53.49
1638.00	H	-41.94	-41.31	3.77	-4.40	-13.00	-28.94
2457.00	H	-57.61	-55.88	3.70	-5.43	-13.00	-44.61
3276.00	H	---					
4095.00	H	---					
4914.00	H	---					
5733.00	H	---					
6552.00	H	---					
7371.00	H	---					
8190.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + 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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Operation Band	:LTE B26	Test Date	:2014-06-23
ARFCN	:CH 26765 16QAM BW 5 RB1 24	Temp./Humi.	:22.1 deg_C / 68 RH
Fundamental Frequency	:821.5 MHz	Engineer	:Curry
Operation Mode	:TX HIGH	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:E1 Plane		

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
42.61	S	-50.70	-36.35	-13.49	-0.86	-13.00	-37.70
87.23	S	-63.29	-60.51	-1.64	-1.15	-13.00	-50.29
258.92	S	-72.77	-74.61	3.58	-1.74	-13.00	-59.77
416.06	S	-73.10	-74.54	3.56	-2.12	-13.00	-60.10
525.67	S	-69.50	-70.85	3.77	-2.42	-13.00	-56.50
704.15	S	-66.35	-67.35	3.75	-2.75	-13.00	-53.35
1643.00	H	-41.14	-40.49	3.77	-4.41	-13.00	-28.14
2464.00	H	-49.65	-47.93	3.71	-5.44	-13.00	-36.65
3286.00	H	---					
4107.50	H	---					
4929.00	H	---					
5750.50	H	---					
6572.00	H	---					
7393.50	H	---					
8215.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + 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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Operation Band	:LTE B26	Test Date	:2014-06-23
ARFCN	:CH 26765 16QAM BW 5 RB1 24	Temp./Humi.	:22.1 deg_C / 68 RH
Fundamental Frequency	:821.5 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
41.64	S	-64.55	-50.08	-13.63	-0.84	-13.00	-51.55
86.26	S	-60.60	-57.55	-1.92	-1.13	-13.00	-47.60
183.26	S	-70.67	-70.74	1.54	-1.47	-13.00	-57.67
290.93	S	-72.67	-74.25	3.43	-1.84	-13.00	-59.67
550.89	S	-70.79	-72.08	3.78	-2.49	-13.00	-57.79
696.39	S	-66.37	-67.42	3.79	-2.74	-13.00	-53.37
1643.00	H	-42.44	-41.79	3.77	-4.41	-13.00	-29.44
2464.00	H	-58.52	-56.79	3.71	-5.44	-13.00	-45.52
3286.00	H	---					
4107.50	H	---					
4929.00	H	---					
5750.50	H	---					
6572.00	H	---					
7393.50	H	---					
8215.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + 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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Radiated Spurious Emission Measurement Result: 15MHz BW LTE-Band 41 (The Worst case)

Operation Band	:LTE B41	Test Date	:2014-06-23
ARFCN	:CH 39725 16QAM BW 15 RB1 0	Temp./Humi.	:22.1 deg_C / 68 RH
Fundamental Frequency	:2503.5 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
40.67	S	-53.86	-41.42	-11.63	-0.81	-25.00	-28.86
87.23	S	-63.43	-62.80	0.51	-1.15	-25.00	-38.43
279.29	S	-70.53	-74.21	5.48	-1.81	-25.00	-45.53
344.28	S	-70.71	-74.53	5.79	-1.97	-25.00	-45.71
596.48	S	-65.98	-68.99	5.62	-2.61	-25.00	-40.98
770.11	S	-63.85	-66.56	5.60	-2.89	-25.00	-38.85
5007.00	H	-34.68	-37.07	10.30	-7.91	-25.00	-9.68
7510.50	H	---					
10014.00	H	---					
12517.50	H	---					
15021.00	H	---					
17524.50	H	---					
20028.00	H	---					
22531.50	H	---					
25035.00	H	---					

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

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

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

“---” : denotes Noise Floor.

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Operation Band	:LTE B41	Test Date	:2014-06-23
ARFCN	:CH 39725 16QAM BW 15 RB1 0	Temp./Humi.	:22.1 deg_C / 68 RH
Fundamental Frequency	:2503.5 MHz	Engineer	:Curry
Operation Mode	:TX LOW	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:E2 Plane		

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
41.64	S	-64.30	-51.99	-11.48	-0.84	-25.00	-39.30
86.26	S	-58.36	-57.45	0.23	-1.13	-25.00	-33.36
203.63	S	-69.51	-73.66	5.67	-1.53	-25.00	-44.51
645.95	S	-63.84	-67.12	5.96	-2.68	-25.00	-38.84
709.97	S	-63.78	-66.87	5.85	-2.76	-25.00	-38.78
773.02	S	-63.43	-66.14	5.61	-2.90	-25.00	-38.43
5007.00	H	-45.28	-47.66	10.30	-7.91	-25.00	-20.28
7510.50	H	---					
10014.00	H	---					
12517.50	H	---					
15021.00	H	---					
17524.50	H	---					
20028.00	H	---					
22531.50	H	---					
25035.00	H	---					

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

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

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

“---” : denotes Noise Floor.

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Operation Band	:LTE B41	Test Date	:2014-06-23
ARFCN	:CH 40620 16QAM BW 15 RB1 0	Temp./Humi.	:22.1 deg_C / 68 RH
Fundamental Frequency	:2593.0 MHz	Engineer	:Curry
Operation Mode	:TX MID	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:E2 Plane		

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
40.67	S	-53.70	-41.26	-11.63	-0.81	-25.00	-28.70
87.23	S	-62.89	-62.26	0.51	-1.15	-25.00	-37.89
287.05	S	-70.71	-74.43	5.55	-1.83	-25.00	-45.71
599.39	S	-66.43	-69.40	5.60	-2.62	-25.00	-41.43
648.86	S	-63.98	-67.28	5.98	-2.68	-25.00	-38.98
771.08	S	-62.67	-65.37	5.60	-2.89	-25.00	-37.67
5172.00	H	-27.38	-29.68	10.37	-8.07	-25.00	-2.38
7779.00	H	---					
10372.00	H	---					
12965.00	H	---					
15558.00	H	---					
18151.00	H	---					
20744.00	H	---					
23337.00	H	---					
25930.00	H	---					

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

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

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

“---” : denotes Noise Floor.

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Operation Band	:LTE B41	Test Date	:2014-06-23
ARFCN	:CH 40620 16QAM BW 15 RB1 0	Temp./Humi.	:22.1 deg_C / 68 RH
Fundamental Frequency	:2593.0 MHz	Engineer	:Curry
Operation Mode	:TX MID	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:E2 Plane		

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
41.64	S	-64.58	-52.27	-11.48	-0.84	-25.00	-39.58
86.26	S	-58.28	-57.38	0.23	-1.13	-25.00	-33.28
203.63	S	-70.59	-74.73	5.67	-1.53	-25.00	-45.59
270.56	S	-70.38	-74.16	5.55	-1.78	-25.00	-45.38
648.86	S	-64.24	-67.54	5.98	-2.68	-25.00	-39.24
771.08	S	-63.58	-66.29	5.60	-2.89	-25.00	-38.58
5186.00	H	-38.64	-40.94	10.37	-8.07	-25.00	-13.64
7779.00	H	---					
10372.00	H	---					
12965.00	H	---					
15558.00	H	---					
18151.00	H	---					
20744.00	H	---					
23337.00	H	---					
25930.00	H	---					

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

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

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

“---” : denotes Noise Floor.

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Operation Band	:LTE B41	Test Date	:2014-06-23
ARFCN	:CH 41515 16QAM BW 15 RB1 0	Temp./Humi.	:22.1 deg_C / 68 RH
Fundamental Frequency	:2682.5MHz	Engineer	:Curry
Operation Mode	:TX HIGH	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:E2 Plane		

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
40.67	S	-53.72	-41.28	-11.63	-0.81	-25.00	-28.72
86.26	S	-62.78	-61.88	0.23	-1.13	-25.00	-37.78
290.93	S	-71.01	-74.74	5.58	-1.84	-25.00	-46.01
529.55	S	-68.78	-72.27	5.93	-2.44	-25.00	-43.78
642.07	S	-63.67	-66.93	5.93	-2.67	-25.00	-38.67
770.11	S	-62.38	-65.08	5.60	-2.89	-25.00	-37.38
5354.00	H	-26.75	-28.96	10.44	-8.23	-25.00	-1.75
8047.50	H	---					
10730.00	H	---					
13412.50	H	---					
16095.00	H	---					
18777.50	H	---					
21460.00	H	---					
24142.50	H	---					
26825.00	H	---					

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

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

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

“---” : denotes Noise Floor.

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Operation Band	:LTE B41	Test Date	:2014-06-23
ARFCN	:CH 41515 16QAM BW 15 RB1 0	Temp./Humi.	:22.1 deg_C / 68 RH
Fundamental Frequency	:2682.5MHz	Engineer	:Curry
Operation Mode	:TX HIGH	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:E2 Plane		

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
40.67	S	-64.50	-52.06	-11.63	-0.81	-25.00	-39.50
86.26	S	-58.29	-57.39	0.23	-1.13	-25.00	-33.29
517.91	S	-68.71	-72.23	5.92	-2.40	-25.00	-43.71
647.89	S	-63.59	-66.88	5.97	-2.68	-25.00	-38.59
738.10	S	-64.47	-67.27	5.62	-2.82	-25.00	-39.47
819.58	S	-63.19	-65.88	5.70	-3.01	-25.00	-38.19
5365.00	H	-37.60	-39.81	10.44	-8.23	-25.00	-12.60
8047.50	H	---					
10730.00	H	---					
13412.50	H	---					
16095.00	H	---					
18777.50	H	---					
21460.00	H	---					
24142.50	H	---					
26825.00	H	---					

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

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

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

“---” : denotes Noise Floor.

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11. FREQUENCY STABILITY V.S. TEMPERATURE MEASUREMENT

11.1. Standard Applicable:

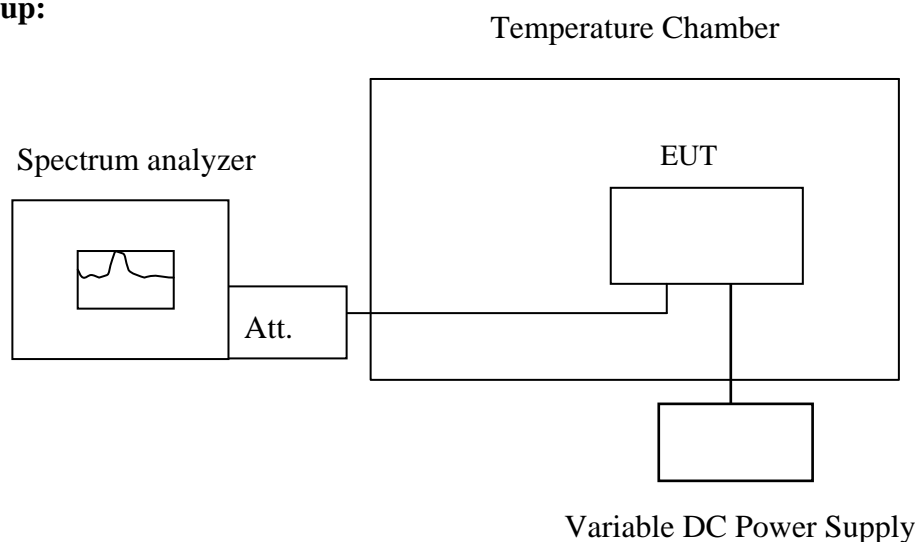
According to FCC §2.1055(a) (1)

Frequency Tolerance: ± 2.5 ppm for 800MHz band

± 2.5 ppm for 1900MHz band

± 2.5 ppm for 2500MHz band

11.2. Test Set-up:



Note: Measurement setup for testing on Antenna connector

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11.3. Measurement Procedure:

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

11.4. Measurement Equipment Used:

Refer to section 2.4 in this report

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11.5. Measurement Result:

Reference Frequency: CDMA 2000 Cellular (BC0) 836.52 MHz				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.80	-30	836.520003	-13.00	2091
3.80	-20	836.519996	-6.00	2091
3.80	-10	836.519999	-9.00	2091
3.80	0	836.519999	-9.00	2091
3.80	10	836.520006	-16.00	2091
3.80	20	836.519990	0.00	2091
3.80	30	836.520000	-10.00	2091
3.80	40	836.519997	-7.00	2091
3.80	50	836.519996	-6.00	2091

Reference Frequency: CDMA 1900 PCS (BC1) Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.80	-30	1880.000002	1.00	4700
3.80	-20	1880.000005	-2.00	4700
3.80	-10	1880.000004	-1.00	4700
3.80	0	1880.000003	0.00	4700
3.80	10	1880.000001	2.00	4700
3.80	20	1880.000003	0.00	4700
3.80	30	1880.000005	-2.00	4700
3.80	40	1880.000003	0.00	4700
3.80	50	1880.000002	1.00	4700

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Reference Frequency: CDMA 2000 (BC10) Mid Channel 820.5 MHz				
Limit: +/- 2.5 ppm =2051.25 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.8	-30	820.500006	-5.00	2051.25
3.8	-20	820.500001	0.00	2051.25
3.8	-10	820.499999	2.00	2051.25
3.8	0	820.500008	-7.00	2051.25
3.8	10	820.500007	-6.00	2051.25
3.8	20	820.500001	0.00	2051.25
3.8	30	820.500008	-7.00	2051.25
3.8	40	820.500008	-7.00	2051.25
3.8	50	820.499999	2.00	2051.25

Reference Frequency: LTE B25 Mid Channel 1882.5 MHz 1.4M QPSK CH 26365				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.8	-30	1882.499993	-3.70	4706
3.8	-20	1882.500004	7.00	4706
3.8	-10	1882.500002	4.80	4706
3.8	0	1882.499995	-2.10	4706
3.8	10	1882.500002	5.10	4706
3.8	20	1882.499997	0.00	4706
3.8	30	1882.500000	3.20	4706
3.8	40	1882.499998	0.60	4706
3.8	50	1882.500002	5.30	4706

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Reference Frequency: LTE B25 Mid Channel 1882.5 MHz 1.4M 16QAM CH 26365				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.8	-30	1882.499994	-14.20	4706
3.8	-20	1882.500004	-4.20	4706
3.8	-10	1882.499999	-9.30	4706
3.8	0	1882.500002	-6.60	4706
3.8	10	1882.500001	-7.90	4706
3.8	20	1882.500008	0.00	4706
3.8	30	1882.499997	-11.80	4706
3.8	40	1882.500000	-8.40	4706
3.8	50	1882.500001	-7.10	4706

Reference Frequency: LTE B25 Mid Channel 1882.5 MHz 3M QPSK CH 26365				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.8	-30	1882.499995	4.20	4706
3.8	-20	1882.499997	5.90	4706
3.8	-10	1882.499997	6.40	4706
3.8	0	1882.499999	8.00	4706
3.8	10	1882.499996	5.10	4706
3.8	20	1882.499991	0.00	4706
3.8	30	1882.500000	9.00	4706
3.8	40	1882.499995	4.20	4706
3.8	50	1882.499995	3.70	4706

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Reference Frequency: LTE B25 Mid Channel 1882.5 MHz 3M 16QAM CH 26365				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.8	-30	1882.499993	3.80	4706
3.8	-20	1882.499995	6.00	4706
3.8	-10	1882.500001	12.20	4706
3.8	0	1882.500000	10.90	4706
3.8	10	1882.499999	10.00	4706
3.8	20	1882.499989	0.00	4706
3.8	30	1882.499995	6.00	4706
3.8	40	1882.499997	7.80	4706
3.8	50	1882.499994	5.00	4706

Reference Frequency: LTE B25 Mid Channel 1882.5 MHz 5M QPSK CH 26365				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.8	-30	1882.499992	-17.60	4706
3.8	-20	1882.499997	-12.30	4706
3.8	-10	1882.500003	-6.60	4706
3.8	0	1882.499997	-12.60	4706
3.8	10	1882.500002	-7.90	4706
3.8	20	1882.500010	0.00	4706
3.8	30	1882.499994	-15.40	4706
3.8	40	1882.499995	-14.10	4706
3.8	50	1882.499996	-13.50	4706

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Reference Frequency: LTE B25 Mid Channel 1882.5 MHz 5M 16QAM CH 26365				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.8	-30	1882.499997	1.10	4706
3.8	-20	1882.500003	7.90	4706
3.8	-10	1882.500003	7.10	4706
3.8	0	1882.499998	2.70	4706
3.8	10	1882.500001	5.60	4706
3.8	20	1882.499996	0.00	4706
3.8	30	1882.500001	5.10	4706
3.8	40	1882.500007	11.30	4706
3.8	50	1882.499996	0.70	4706

Reference Frequency: LTE B25 Mid Channel 1882.5 MHz 10M QPSK CH 26365				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.8	-30	1882.499995	-9.80	4706
3.8	-20	1882.500001	-4.40	4706
3.8	-10	1882.499993	-11.90	4706
3.8	0	1882.499995	-10.00	4706
3.8	10	1882.500006	1.30	4706
3.8	20	1882.500005	0.00	4706
3.8	30	1882.500004	-1.30	4706
3.8	40	1882.499997	-8.40	4706
3.8	50	1882.499993	-11.60	4706

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Reference Frequency: LTE B25 Mid Channel 1882.5 MHz 10M 16QAM CH 26365				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.8	-30	1882.499995	4.00	4706
3.8	-20	1882.500001	9.50	4706
3.8	-10	1882.500002	10.70	4706
3.8	0	1882.499998	7.00	4706
3.8	10	1882.500002	10.90	4706
3.8	20	1882.499991	0.00	4706
3.8	30	1882.499996	4.30	4706
3.8	40	1882.499993	1.50	4706
3.8	50	1882.499994	3.00	4706

Reference Frequency: LTE B25 Mid Channel 1882.5 MHz 15M QPSK CH 26365				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.8	-30	1882.499994	0.40	4706
3.8	-20	1882.500004	10.30	4706
3.8	-10	1882.500000	6.60	4706
3.8	0	1882.500003	9.50	4706
3.8	10	1882.500004	10.50	4706
3.8	20	1882.499993	0.00	4706
3.8	30	1882.500006	12.40	4706
3.8	40	1882.499996	2.60	4706
3.8	50	1882.499992	-1.10	4706

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Reference Frequency: LTE B25 Mid Channel 1882.5 MHz 15M 16QAM CH 26365				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.8	-30	1882.500008	7.30	4706
3.8	-20	1882.499999	-1.40	4706
3.8	-10	1882.500001	0.30	4706
3.8	0	1882.499999	-1.90	4706
3.8	10	1882.499999	-1.50	4706
3.8	20	1882.500001	0.00	4706
3.8	30	1882.499998	-2.50	4706
3.8	40	1882.499998	-2.40	4706
3.8	50	1882.500001	0.20	4706

Reference Frequency: LTE B25 Mid Channel 1882.5 MHz 20M QPSK CH 26365				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.8	-30	1882.499993	-6.00	4706
3.8	-20	1882.500005	6.20	4706
3.8	-10	1882.500008	9.40	4706
3.8	0	1882.499999	0.70	4706
3.8	10	1882.500006	7.70	4706
3.8	20	1882.499999	0.00	4706
3.8	30	1882.500007	8.00	4706
3.8	40	1882.500001	2.00	4706
3.8	50	1882.500004	5.40	4706

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Reference Frequency: LTE B25 Mid Channel 1882.5 MHz 20M 16QAM CH 26365				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.8	-30	1882.499997	-11.90	4706
3.8	-20	1882.500006	-3.30	4706
3.8	-10	1882.500002	-6.90	4706
3.8	0	1882.499996	-13.30	4706
3.8	10	1882.500002	-6.90	4706
3.8	20	1882.500009	0.00	4706
3.8	30	1882.499992	-17.00	4706
3.8	40	1882.500004	-4.60	4706
3.8	50	1882.500002	-6.70	4706

Reference Frequency: LTE B26 Mid Channel 836.5 MHz 1.4M QPSK CH 26915				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.8	-30	836.499995	0.40	2091
3.8	-20	836.500007	13.20	2091
3.8	-10	836.500000	6.00	2091
3.8	0	836.500002	7.90	2091
3.8	10	836.499997	2.30	2091
3.8	20	836.499994	0.00	2091
3.8	30	836.500000	6.00	2091
3.8	40	836.500000	5.90	2091
3.8	50	836.499993	-1.20	2091

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Reference Frequency:		LTE B26 Mid Channel	836.5	MHz	1.4M 16QAM CH
					26915
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
3.8	-30	836.499997	-1.10	2091	
3.8	-20	836.500002	4.50	2091	
3.8	-10	836.499994	-3.50	2091	
3.8	0	836.500005	7.00	2091	
3.8	10	836.500007	9.30	2091	
3.8	20	836.499998	0.00	2091	
3.8	30	836.499996	-2.20	2091	
3.8	40	836.500000	1.80	2091	
3.8	50	836.500004	5.70	2091	

Reference Frequency:		LTE B26 Mid Channel	836.5	MHz	3M QPSK CH 26915
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
3.8	-30	836.499997	-6.40	2091	
3.8	-20	836.500009	5.00	2091	
3.8	-10	836.499998	-5.70	2091	
3.8	0	836.499999	-5.20	2091	
3.8	10	836.499999	-5.00	2091	
3.8	20	836.500004	0.00	2091	
3.8	30	836.500002	-2.10	2091	
3.8	40	836.499993	-10.60	2091	
3.8	50	836.499999	-4.70	2091	

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Reference Frequency: LTE B26 Mid Channel 836.5 MHz 3M 16QAM CH 26915				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.8	-30	836.499996	1.60	2091
3.8	-20	836.500000	5.50	2091
3.8	-10	836.500001	6.60	2091
3.8	0	836.500002	7.60	2091
3.8	10	836.499998	3.60	2091
3.8	20	836.499995	0.00	2091
3.8	30	836.500001	6.40	2091
3.8	40	836.500001	6.40	2091
3.8	50	836.500005	10.60	2091

Reference Frequency: LTE B26 Mid Channel 836.5 MHz 5M QPSK CH 26915				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.8	-30	836.500002	-10.60	2091
3.8	-20	836.499993	-19.90	2091
3.8	-10	836.499998	-14.30	2091
3.8	0	836.500001	-11.80	2091
3.8	10	836.499995	-17.50	2091
3.8	20	836.500013	0.00	2091
3.8	30	836.500000	-12.30	2091
3.8	40	836.499995	-17.90	2091
3.8	50	836.500002	-10.40	2091

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Reference Frequency: LTE B26 Mid Channel 836.5 MHz 5M 16QAM CH 26915				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.8	-30	836.500002	-4.30	2091
3.8	-20	836.499998	-8.40	2091
3.8	-10	836.500000	-6.80	2091
3.8	0	836.500000	-6.80	2091
3.8	10	836.499993	-13.20	2091
3.8	20	836.500007	0.00	2091
3.8	30	836.499994	-12.90	2091
3.8	40	836.499995	-11.20	2091
3.8	50	836.500004	-2.20	2091

Reference Frequency: LTE B26 Mid Channel 836.5 MHz 10M QPSK CH 26915				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.8	-30	836.500003	11.80	2091
3.8	-20	836.499997	5.90	2091
3.8	-10	836.499996	5.30	2091
3.8	0	836.500003	11.80	2091
3.8	10	836.500007	15.40	2091
3.8	20	836.499991	0.00	2091
3.8	30	836.500006	15.20	2091
3.8	40	836.499995	4.30	2091
3.8	50	836.499999	7.90	2091

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Reference Frequency:		LTE B26 Mid Channel	836.5	MHz	10M 16QAM CH
					26915
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
3.8	-30	836.500002	4.20	2091	
3.8	-20	836.500005	7.60	2091	
3.8	-10	836.500008	10.60	2091	
3.8	0	836.499998	0.40	2091	
3.8	10	836.500004	6.20	2091	
3.8	20	836.499997	0.00	2091	
3.8	30	836.500009	11.30	2091	
3.8	40	836.499999	2.00	2091	
3.8	50	836.499994	-3.50	2091	

Reference Frequency:		LTE B26 Mid Channel	819.0	MHz	1.4M QPSK CH 26740
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
3.8	-30	818.999993	2.10	2048	
3.8	-20	819.000001	9.60	2048	
3.8	-10	818.999998	7.00	2048	
3.8	0	818.999996	4.40	2048	
3.8	10	819.000004	12.80	2048	
3.8	20	818.999991	0.00	2048	
3.8	30	818.999995	3.60	2048	
3.8	40	818.999996	4.50	2048	
3.8	50	819.000001	10.00	2048	

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Reference Frequency:		LTE B26 Mid Channel	819.0	MHz	1.4M 16QAM CH 26740
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
3.8	-30	818.999993	-12.40	2048	
3.8	-20	818.999996	-9.00	2048	
3.8	-10	818.999999	-6.10	2048	
3.8	0	818.999998	-7.40	2048	
3.8	10	818.999994	-11.10	2048	
3.8	20	819.000005	0.00	2048	
3.8	30	818.999993	-11.60	2048	
3.8	40	819.000003	-2.20	2048	
3.8	50	818.999996	-9.40	2048	

Reference Frequency:		LTE B26 Mid Channel	819.0	MHz	3M QPSK CH 26740
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
3.8	-30	818.999994	-1.20	2048	
3.8	-20	818.999999	3.70	2048	
3.8	-10	819.000006	10.90	2048	
3.8	0	818.999995	-0.50	2048	
3.8	10	819.000006	11.00	2048	
3.8	20	818.999995	0.00	2048	
3.8	30	819.000004	8.50	2048	
3.8	40	818.999991	-4.60	2048	
3.8	50	818.999995	0.00	2048	

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Reference Frequency:		LTE B26 Mid Channel	819.0	MHz	3M 16QAM CH 26740
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
3.8	-30	818.999993	-0.30	2048	
3.8	-20	818.999993	-0.40	2048	
3.8	-10	818.999997	3.50	2048	
3.8	0	818.999996	2.70	2048	
3.8	10	819.000004	10.30	2048	
3.8	20	818.999994	0.00	2048	
3.8	30	818.999996	2.20	2048	
3.8	40	819.000007	13.10	2048	
3.8	50	818.999999	5.00	2048	

Reference Frequency:		LTE B26 Mid Channel	819.0	MHz	5M QPSK CH 26740
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
3.8	-30	818.999998	5.20	2048	
3.8	-20	819.000003	10.50	2048	
3.8	-10	819.000000	6.60	2048	
3.8	0	818.999996	3.10	2048	
3.8	10	818.999999	5.90	2048	
3.8	20	818.999993	0.00	2048	
3.8	30	818.999996	3.20	2048	
3.8	40	819.000009	16.40	2048	
3.8	50	818.999998	5.30	2048	

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Reference Frequency: LTE B26 Mid Channel 819.0 MHz 5M 16QAM CH 26740				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.8	-30	818.999995	5.50	2048
3.8	-20	819.000000	10.70	2048
3.8	-10	819.000008	17.90	2048
3.8	0	818.999996	6.70	2048
3.8	10	819.000000	10.30	2048
3.8	20	818.999990	0.00	2048
3.8	30	818.999993	3.50	2048
3.8	40	819.000002	12.20	2048
3.8	50	819.000007	17.40	2048

Reference Frequency: LTE B26 Mid Channel 819.0 MHz 10M QPSK CH 26740				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.8	-30	818.999998	-4.40	2048
3.8	-20	818.999993	-9.10	2048
3.8	-10	818.999998	-4.10	2048
3.8	0	819.000006	3.00	2048
3.8	10	819.000002	-0.60	2048
3.8	20	819.000003	0.00	2048
3.8	30	819.000003	0.80	2048
3.8	40	819.000000	-3.00	2048
3.8	50	818.999997	-5.60	2048

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Reference Frequency:		LTE B26 Mid Channel	819.0	MHz	10M 16QAM CH 26740
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
3.8	-30	818.999997	-5.90	2048	
3.8	-20	818.999997	-6.20	2048	
3.8	-10	818.999998	-4.90	2048	
3.8	0	819.000002	-1.00	2048	
3.8	10	819.000002	-0.50	2048	
3.8	20	819.000003	0.00	2048	
3.8	30	818.999993	-10.10	2048	
3.8	40	819.000000	-2.40	2048	
3.8	50	819.000002	-0.40	2048	

Reference Frequency:		LTE Band 41 Mid Channel	2593.0	MHz	5M QPSK CH 40620
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
3.8	-30	2592.999989	-17.40	6483	
3.8	-20	2592.999995	-11.00	6483	
3.8	-10	2593.000003	-3.80	6483	
3.8	0	2593.000000	-6.20	6483	
3.8	10	2593.000006	-0.70	6483	
3.8	20	2593.000006	0.00	6483	
3.8	30	2593.000003	-3.60	6483	
3.8	40	2593.000008	2.10	6483	
3.8	50	2592.999994	-12.00	6483	

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Reference Frequency: LTE Band 41 Mid Channel			2593.0	MHz	5M 16QAM CH
					40620
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
3.8	-30	2592.999990	-17.30	6483	
3.8	-20	2592.999998	-8.80	6483	
3.8	-10	2593.000001	-5.50	6483	
3.8	0	2592.999996	-11.40	6483	
3.8	10	2592.999998	-9.40	6483	
3.8	20	2593.000007	0.00	6483	
3.8	30	2593.000007	-0.40	6483	
3.8	40	2593.000001	-6.40	6483	
3.8	50	2592.999991	-16.40	6483	

Reference Frequency: LTE Band 41 Mid Channel			2593.0	MHz	10M QPSK CH
					40620
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
3.8	-30	2592.999993	-13.70	6483	
3.8	-20	2592.999996	-10.60	6483	
3.8	-10	2592.999993	-13.60	6483	
3.8	0	2593.000001	-5.00	6483	
3.8	10	2593.000002	-4.40	6483	
3.8	20	2593.000006	0.00	6483	
3.8	30	2592.999993	-13.30	6483	
3.8	40	2593.000003	-3.30	6483	
3.8	50	2592.999997	-9.50	6483	

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Reference Frequency: LTE Band 41 Mid Channel 2593.0			MHz	10M 16QAM CH 40620
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.8	-30	2592.999990	-14.10	6483
3.8	-20	2593.000000	-4.70	6483
3.8	-10	2593.000003	-1.40	6483
3.8	0	2592.999999	-5.70	6483
3.8	10	2593.000004	-0.40	6483
3.8	20	2593.000004	0.00	6483
3.8	30	2593.000001	-3.00	6483
3.8	40	2593.000003	-1.80	6483
3.8	50	2592.999994	-10.90	6483

Reference Frequency: LTE Band 41 Mid Channel 2593.0			MHz	15M QPSK CH 40620
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.8	-30	2592.999987	-19.90	6483
3.8	-20	2593.000005	-2.60	6483
3.8	-10	2593.000005	-2.10	6483
3.8	0	2593.000003	-3.80	6483
3.8	10	2593.000008	0.40	6483
3.8	20	2593.000007	0.00	6483
3.8	30	2592.999998	-9.20	6483
3.8	40	2593.000008	0.40	6483
3.8	50	2592.999989	-18.00	6483

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Reference Frequency: LTE Band 41 Mid Channel 2593.0			MHz	15M 16QAM CH
				40620
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.8	-30	2592.999986	-15.00	6483
3.8	-20	2593.000003	1.50	6483
3.8	-10	2592.999997	-3.90	6483
3.8	0	2593.000002	0.90	6483
3.8	10	2593.000000	-1.20	6483
3.8	20	2593.000001	0.00	6483
3.8	30	2593.000000	-1.20	6483
3.8	40	2593.000000	-1.30	6483
3.8	50	2592.999992	-9.10	6483

Reference Frequency: LTE Band 41 Mid Channel 2593.0			MHz	20M QPSK CH 40620
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.8	-30	2592.999984	-7.40	6483
3.8	-20	2593.000005	13.70	6483
3.8	-10	2592.999992	0.60	6483
3.8	0	2593.000001	9.40	6483
3.8	10	2593.000008	16.80	6483
3.8	20	2592.999991	0.00	6483
3.8	30	2592.999996	4.80	6483
3.8	40	2592.999994	3.00	6483
3.8	50	2592.999992	0.60	6483

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Reference Frequency: LTE Band 41 Mid Channel 2593.0			MHz	20M 16QAM CH
				40620
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.8	-30	2592.999989	-5.10	6483
3.8	-20	2593.000003	9.10	6483
3.8	-10	2593.000002	8.30	6483
3.8	0	2593.000008	14.10	6483
3.8	10	2593.000000	6.00	6483
3.8	20	2592.999994	0.00	6483
3.8	30	2592.999995	1.00	6483
3.8	40	2593.000010	15.60	6483
3.8	50	2592.999995	0.60	6483

Note: The battery is rated 3.8V dc.

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12. FREQUENCY STABILITY V.S. VOLTAGE MEASUREMENT

12.1. Standard Applicable:

According to FCC §2.1055(d) (2)

Frequency Tolerance: ± 2.5 ppm for 800MHz band

± 2.5 ppm for 1900MHz band

± 2.5 ppm for 2500MHz band

12.2. Test Set-up:

Refer to section 11.2 in this report

12.3. Measurement Procedure:

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

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

12.4. Measurement Equipment Used:

Refer to section 2.4 in this report

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12.5. Measurement Result:

Reference Frequency: CDMA 2000 Cellualr (BC0) Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
4.37	25.00	836.520000	-3.00	2091.00
3.80	25.00	836.519997	0.00	2091.00
3.23	25.00	836.519999	-2.00	2091.00
3.20 (Endpoint)	25.00	836.520000	-3.00	2091.00

Reference Frequency: CDMA 2000 PCS (BC1) Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
4.37	25	1880.000002	2.00	4700
3.80	25	1880.000004	0.00	4700
3.23	25	1880.000004	0.00	4700
3.20 (Endpoint)	25	1880.000005	-1.00	4700

Reference Frequency: CDMA 2000 Cellualr (BC10) Mid Channel 820.5 MHz				
Limit: +/- 2.5 ppm = 2051.25 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
4.37	25.00	820.500000	9.00	2051.25
3.80	25.00	820.500009	0.00	2051.25
3.23	25.00	820.499996	13.00	2051.25
3.20 (Endpoint)	25.00	820.499993	16.00	2051.25

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Reference Frequency:		LTE Band 25 Mid Channel		1882.5 MHz	1.4M QPSK CH 26365
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
4.37	25	1882.500004	6.30	4706	
3.8	25	1882.499997	0.00	4706	
3.23	25	1882.500007	9.60	4706	
3.2 (End Point)	25	1882.500006	8.90	4706	

Reference Frequency:		LTE Band 25 Mid Channel		1882.5 MHz	1.4M 16QAM CH 26365
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
4.37	25	1882.499998	-11.10	4706	
3.8	25	1882.500009	0.00	4706	
3.23	25	1882.500008	-0.40	4706	
3.2 (End Point)	25	1882.500003	-5.40	4706	

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Reference Frequency:		LTE Band 25 Mid Channel		1882.5	MHz	3M QPSK CH
26365						
Limit: +/- 2.5 ppm = Hz						
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)		
Vdc	Temperature ()	(MHz)				
4.37	25	1882.500004	13.60	4706		
3.8	25	1882.499990	0.00	4706		
3.23	25	1882.499990	-0.50	4706		
3.2 (End Point)	25	1882.499983	-7.70	4706		

Reference Frequency:		LTE Band 25 Mid Channel		1882.5	MHz	3M 16QAM CH
26365						
Limit: +/- 2.5 ppm = Hz						
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)		
Vdc	Temperature ()	(MHz)				
4.37	25	1882.499994	4.40	4706		
3.8	25	1882.499989	0.00	4706		
3.23	25	1882.499988	-0.90	4706		
3.2 (End Point)	25	1882.499993	4.20	4706		

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Reference Frequency:		LTE Band 25 Mid Channel		1882.5	MHz	5M QPSK CH
						26365
Limit: +/- 2.5 ppm = Hz						
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)		
Vdc	Temperature ()	(MHz)				
4.37	25	1882.500010	0.60	4706		
3.8	25	1882.500010	0.00	4706		
3.23	25	1882.500015	4.90	4706		
3.2 (End Point)	25	1882.500015	4.80	4706		

Reference Frequency:		LTE Band 25 Mid Channel		1882.5	MHz	5M 16QAM CH
26365						
Limit: +/- 2.5 ppm = Hz						
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)		
Vdc	Temperature ()	(MHz)				
4.37	25	1882.500004	8.90	4706		
3.8	25	1882.499995	0.00	4706		
3.23	25	1882.499994	-1.30	4706		
3.2 (End Point)	25	1882.499992	-3.50	4706		

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Reference Frequency:		LTE Band 25 Mid Channel		1882.5	MHz	10M QPSK CH
26365						
Limit: +/- 2.5 ppm = Hz						
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)		
Vdc	Temperature ()	(MHz)				
4.37	25	1882.500008	3.20	4706		
3.8	25	1882.500004	0.00	4706		
3.23	25	1882.500012	7.10	4706		
3.2 (End Point)	25	1882.500019	14.40	4706		

Reference Frequency:		LTE Band 25 Mid Channel		1882.5	MHz	10M 16QAM CH
26365						
Limit: +/- 2.5 ppm = Hz						
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)		
Vdc	Temperature ()	(MHz)				
4.37	25	1882.499994	2.40	4706		
3.8	25	1882.499992	0.00	4706		
3.23	25	1882.499998	6.20	4706		
3.2 (End Point)	25	1882.500002	10.20	4706		

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Reference Frequency:		LTE Band 25 Mid Channel		1882.5	MHz	15M QPSK CH
26365						
Limit: +/- 2.5 ppm = Hz						
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)		
Vdc	Temperature ()	(MHz)				
4.37	25	1882.500006	12.00	4706		
3.8	25	1882.499994	0.00	4706		
3.23	25	1882.500002	8.60	4706		
3.2 (End Point)	25	1882.500003	9.40	4706		

Reference Frequency:		LTE Band 25 Mid Channel		1882.5	MHz	15M 16QAM CH
26365						
Limit: +/- 2.5 ppm = Hz						
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)		
Vdc	Temperature ()	(MHz)				
4.37	25	1882.500003	10.00	4706		
3.8	25	1882.499993	0.00	4706		
3.23	25	1882.499997	4.60	4706		
3.2 (End Point)	25	1882.499994	1.40	4706		

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Reference Frequency: LTE Band 25 Mid Channel 1882.5 MHz 20M QPSK CH 26365				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
4.37	25	1882.500006	7.00	4706
3.8	25	1882.499999	0.00	4706
3.23	25	1882.499989	-10.10	4706
3.2 (End Point)	25	1882.499990	-8.60	4706

Reference Frequency: LTE Band 25 Mid Channel 1882.5 MHz 20M 16QAM CH 26365				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
4.37	25	1882.500006	-3.60	4706
3.8	25	1882.500009	0.00	4706
3.23	25	1882.499995	-14.20	4706
3.2 (End Point)	25	1882.499995	-14.00	4706

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Reference Frequency:		LTE Band 26 Mid Channel		836.5	MHz	1.4M QPSK CH
						26915
Limit: +/- 2.5 ppm = Hz						
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)		
Vdc	Temperature ()	(MHz)				
4.37	25	836.500004	9.50	2091		
3.8	25	836.499994	0.00	2091		
3.23	25	836.499998	4.10	2091		
3.2 (End Point)	25	836.499992	-2.20	2091		

Reference Frequency:		LTE Band 26 Mid Channel		836.5	MHz	1.4M 16QAM CH
						26915
Limit: +/- 2.5 ppm = Hz						
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)		
Vdc	Temperature ()	(MHz)				
4.37	25	836.499994	-5.10	2091		
3.8	25	836.499999	0.00	2091		
3.23	25	836.500008	9.30	2091		
3.2 (End Point)	25	836.500015	16.30	2091		

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						26915
Limit: +/- 2.5 ppm = Hz						
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)		
Vdc	Temperature ()	(MHz)				
4.37	25	836.500005	1.00	2091		
3.8	25	836.500004	0.00	2091		
3.23	25	836.499996	-7.80	2091		
3.2 (End Point)	25	836.499993	-10.70	2091		

Reference Frequency:		LTE Band 26 Mid Channel		836.5	MHz	3M 16QAM CH
						26915
Limit: +/- 2.5 ppm = Hz						
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)		
Vdc	Temperature ()	(MHz)				
4.37	25	836.500004	9.00	2091		
3.8	25	836.499995	0.00	2091		
3.23	25	836.499993	-2.10	2091		
3.2 (End Point)	25	836.499981	-14.30	2091		

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Reference Frequency:		LTE Band 26 Mid Channel		836.5	MHz	5M QPSK CH
						26915
Limit: +/- 2.5 ppm = Hz						
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)		
Vdc	Temperature ()	(MHz)				
4.37	25	836.500006	-6.80	2091		
3.8	25	836.500013	0.00	2091		
3.23	25	836.500004	-9.40	2091		
3.2 (End Point)	25	836.500009	-3.90	2091		

Reference Frequency:		LTE Band 26 Mid Channel		836.5	MHz	5M 16QAM CH
						26915
Limit: +/- 2.5 ppm = Hz						
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)		
Vdc	Temperature ()	(MHz)				
4.37	25	836.500002	-4.90	2091		
3.8	25	836.500007	0.00	2091		
3.23	25	836.500001	-5.60	2091		
3.2 (End Point)	25	836.500001	-5.70	2091		

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Reference Frequency:		LTE Band 26 Mid Channel		836.5 MHz	10M QPSK CH 26915
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
4.37	25	836.499994	2.40	2091	
3.8	25	836.499991	0.00	2091	
3.23	25	836.500002	11.10	2091	
3.2 (End Point)	25	836.499989	-2.10	2091	

Reference Frequency:		LTE Band 26 Mid Channel		836.5 MHz	10M 16QAM CH 26915
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
4.37	25	836.500002	3.80	2091	
3.8	25	836.499998	0.00	2091	
3.23	25	836.500011	13.40	2091	
3.2 (End Point)	25	836.500010	11.70	2091	

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Reference Frequency:		LTE Band 26 Mid Channel		819.0 MHz	1.4M QPSK CH 26740
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
4.37	25	819.000007	15.20	2048	
3.8	25	818.999992	0.00	2048	
3.23	25	818.999997	5.00	2048	
3.2 (End Point)	25	819.000002	10.80	2048	

Reference Frequency:		LTE Band 26 Mid Channel		819.0 MHz	1.4M 16QAM CH 26740
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
4.37	25	818.999994	-10.90	2048	
3.8	25	819.000004	0.00	2048	
3.23	25	818.999996	-8.30	2048	
3.2 (End Point)	25	818.999987	-17.70	2048	

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Reference Frequency:		LTE Band 26 Mid Channel		819.0	MHz	3M QPSK CH
						26740
Limit: +/- 2.5 ppm = Hz						
Power Sup- ply	Environment	Frequency	Delta (Hz)	Limit (Hz)		
Vdc	Temperature ()	(MHz)				
4.37	25	819.000001	4.70	2048		
3.8	25	818.999996	0.00	2048		
3.23	25	818.999991	-4.60	2048		
3.2 (End Point)	25	818.999986	-9.90	2048		

Reference Frequency:		LTE Band 26 Mid Channel		819.0	MHz	3M 16QAM CH
						26740
Limit: +/- 2.5 ppm = Hz						
Power Sup- ply	Environment	Frequency	Delta (Hz)	Limit (Hz)		
Vdc	Temperature ()	(MHz)				
4.37	25	819.000005	10.80	2048		
3.8	25	818.999994	0.00	2048		
3.23	25	818.999992	-2.70	2048		
3.2 (End Point)	25	818.999986	-8.10	2048		

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Reference Frequency:		LTE Band 26 Mid Channel		819.0	MHz	5M QPSK CH
						26740
Limit: +/- 2.5 ppm = Hz						
Power Sup- ply	Environment	Frequency	Delta (Hz)	Limit (Hz)		
Vdc	Temperature ()	(MHz)				
4.37	25	819.000004	10.50	2048		
3.8	25	818.999993	0.00	2048		
3.23	25	818.999989	-4.30	2048		
3.2 (End Point)	25	818.999993	0.20	2048		

Reference Frequency:		LTE Band 26 Mid Channel		819.0	MHz	5M 16QAM CH
						26740
Limit: +/- 2.5 ppm = Hz						
Power Sup- ply	Environment	Frequency	Delta (Hz)	Limit (Hz)		
Vdc	Temperature ()	(MHz)				
4.37	25	818.999994	2.90	2048		
3.8	25	818.999991	0.00	2048		
3.23	25	818.999985	-5.20	2048		
3.2 (End Point)	25	818.999981	-9.50	2048		

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Reference Frequency:		LTE Band 26 Mid Channel		819.0 MHz	10M QPSK CH 26740
Limit: +/- 2.5 ppm = Hz					
Power Sup- ply	Environment	Frequency	Delta (Hz)	Power Supply Vdc	
Vdc	Temperature ()	(MHz)			
4.37	25	819.000006	3.60	4.37	
3.8	25	819.000002	0.00	3.8	
3.23	25	818.999999	-3.60	3.23	
3.2 (End Point)	25	818.999997	-5.10	3.2 (End Point)	

Reference Frequency:		LTE Band 26 Mid Channel		819.0 MHz	10M 16QAM CH 26740
Limit: +/- 2.5 ppm = Hz					
Power Sup- ply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
4.37	25	818.999990	-11.70	2048	
3.8	25	819.000002	0.00	2048	
3.23	25	819.000007	4.70	2048	
3.2 (End Point)	25	819.000005	2.60	2048	

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Reference Frequency:		LTE Band 41 Mid Channel		2593.0	MHz	5M QPSK CH
						40620
Limit: +/- 2.5 ppm = Hz						
Power Sup- ply	Environment	Frequency	Delta (Hz)	Limit (Hz)		
Vdc	Temperature ()	(MHz)				
4.37	25	2593.000003	-3.20	6483		
3.8	25	2593.000006	0.00	6483		
3.23	25	2592.999994	-11.50	6483		
3.2 (End Point)	25	2592.999985	-20.50	6483		

Reference Frequency:		LTE Band 41 Mid Channel		2593.0	MHz	5M 16QAM CH
						40620
Limit: +/- 2.5 ppm = Hz						
Power Sup- ply	Environment	Frequency	Delta (Hz)	Limit (Hz)		
Vdc	Temperature ()	(MHz)				
4.37	25	2593.000007	-0.30	6483		
3.8	25	2593.000007	0.00	6483		
3.23	25	2593.000018	10.80	6483		
3.2 (End Point)	25	2593.000012	5.30	6483		

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Reference Frequency:		LTE Band 41 Mid Channel		2593.0 MHz	10M QPSK CH 40620
Limit: +/- 2.5 ppm = Hz					
Power Sup- ply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
4.37	25	2593.000003	-2.70	6483	
3.8	25	2593.000005	0.00	6483	
3.23	25	2593.000004	-1.00	6483	
3.2 (End Point)	25	2593.000007	1.10	6483	

Reference Frequency:		LTE Band 41 Mid Channel		2593.0 MHz	10M 16QAM CH 40620
Limit: +/- 2.5 ppm = Hz					
Power Sup- ply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
4.37	25	2592.999994	-10.40	6483	
3.8	25	2593.000004	0.00	6483	
3.23	25	2592.999992	-12.00	6483	
3.2 (End Point)	25	2592.999995	-9.50	6483	

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Reference Frequency:		LTE Band 41 Mid Channel		2593.0 MHz	15M QPSK CH 40620
Limit: +/- 2.5 ppm = Hz					
Power Sup- ply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
4.37	25	2593.000003	-4.70	6483	
3.8	25	2593.000007	0.00	6483	
3.23	25	2593.000004	-3.00	6483	
3.2 (End Point)	25	2592.999995	-12.40	6483	

Reference Frequency:		LTE Band 41 Mid Channel		2593.0 MHz	15M 16QAM CH 40620
Limit: +/- 2.5 ppm = Hz					
Power Sup- ply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
4.37	25	2593.000006	4.40	6483	
3.8	25	2593.000002	0.00	6483	
3.23	25	2592.999994	-7.30	6483	
3.2 (End Point)	25	2592.999992	-9.50	6483	

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Reference Frequency:		LTE Band 41 Mid Channel		2593.0 MHz	20M QPSK CH 40620
Limit: +/- 2.5 ppm = Hz					
Power Sup- ply	Environment	Frequency	Delta (Hz)	Power Supply Vdc	
Vdc	Temperature ()	(MHz)			
4.37	25	2593.000005	14.10	6483	
3.8	25	2592.999991	0.00	6483	
3.23	25	2592.999990	-1.10	6483	
3.2 (End Point)	25	2592.999986	-4.90	6483	

Reference Frequency:		LTE Band 41 Mid Channel		2593.0 MHz	20M 16QAM CH 40620
Limit: +/- 2.5 ppm = Hz					
Power Sup- ply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
4.37	25	2593.000006	11.70	6483	
3.8	25	2592.999994	0.00	6483	
3.23	25	2592.999992	-2.20	6483	
3.2 (End Point)	25	2592.999992	-2.60	6483	

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13. PEAK TO AVERAGE RATIO

13.1. Standard Applicable:

According FCC 24.232(d), – The peak-to-average ration (PAR) of the transmission may not exceed 13dB.

13.2. Test SET-UP (Block Diagram of Configuration):

Refer to section 2.4 in this report

13.3. Measurement Procedure:

KDB 971168 D01 is employed as the following procedure is proper adjusted accordingly:

Set resolution/measurement bandwidth \geq signal's occupied bandwidth; & internal = 1ms

Set the number of counts to a value that stabilizes the measured CCDF curve.

13.4. Measurement Equipment Used:

Refer to section 2.4 in this report

13.5. Measurement Result:

Refer to next page for tabular, and plot results

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13.5.2 Measurement Results:

Figure 13-1: CDMA 2000 Cellular (BC0) Channel Low

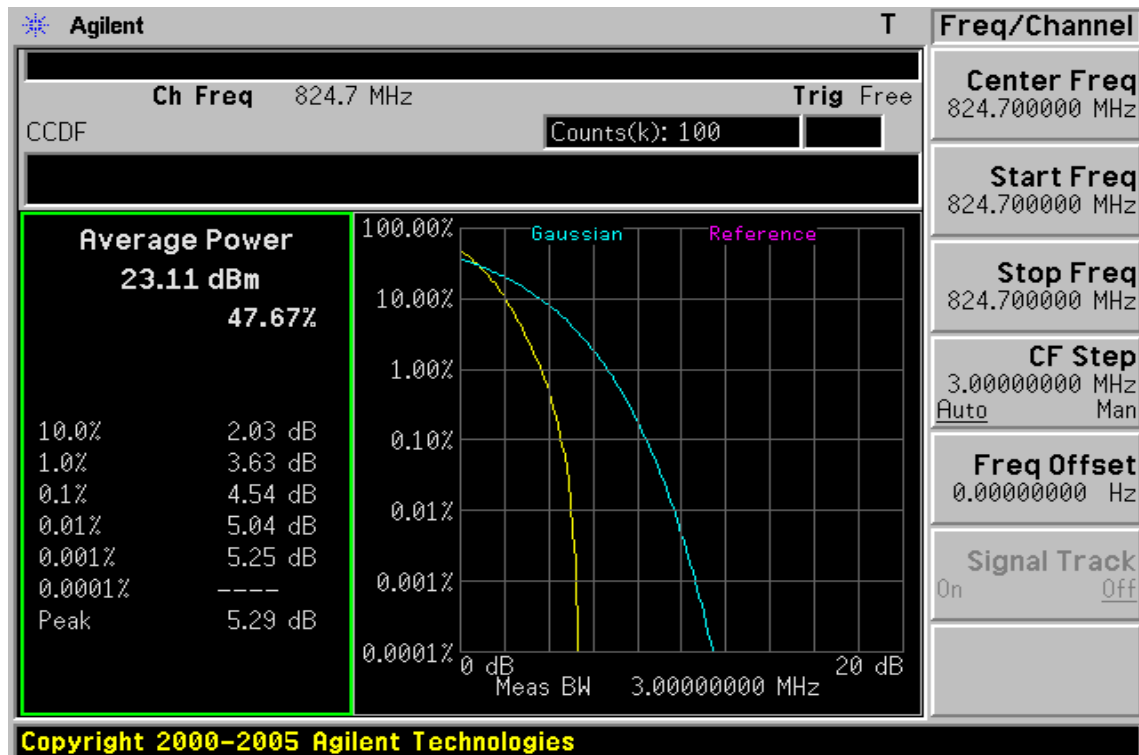
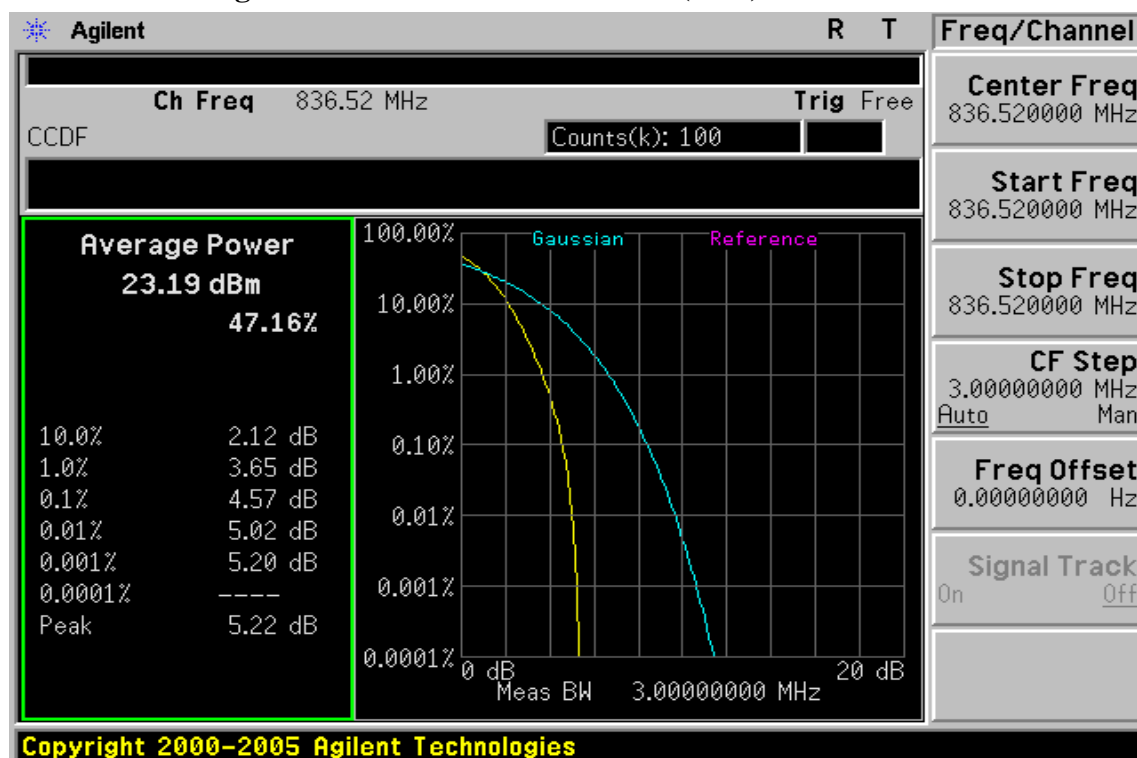


Figure 13-2: CDMA 2000 Cellular (BC0) Channel Mid



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Figure 13-3: CDMA 2000 Cellular (BC0) Channel High

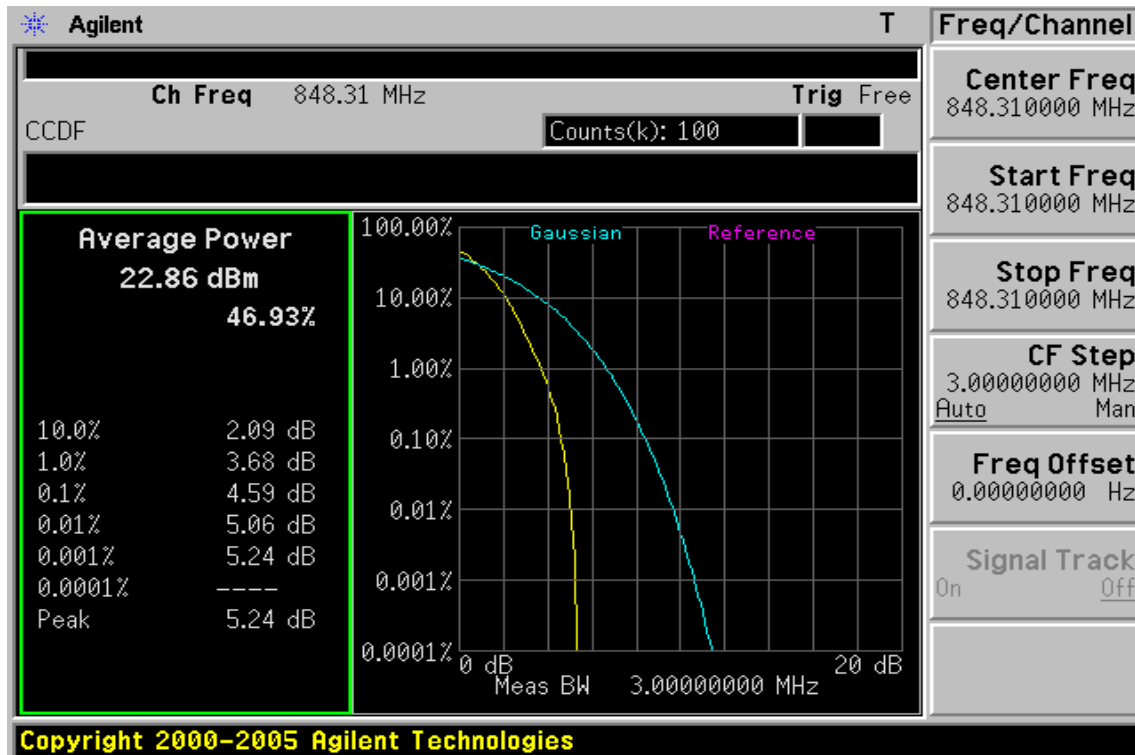
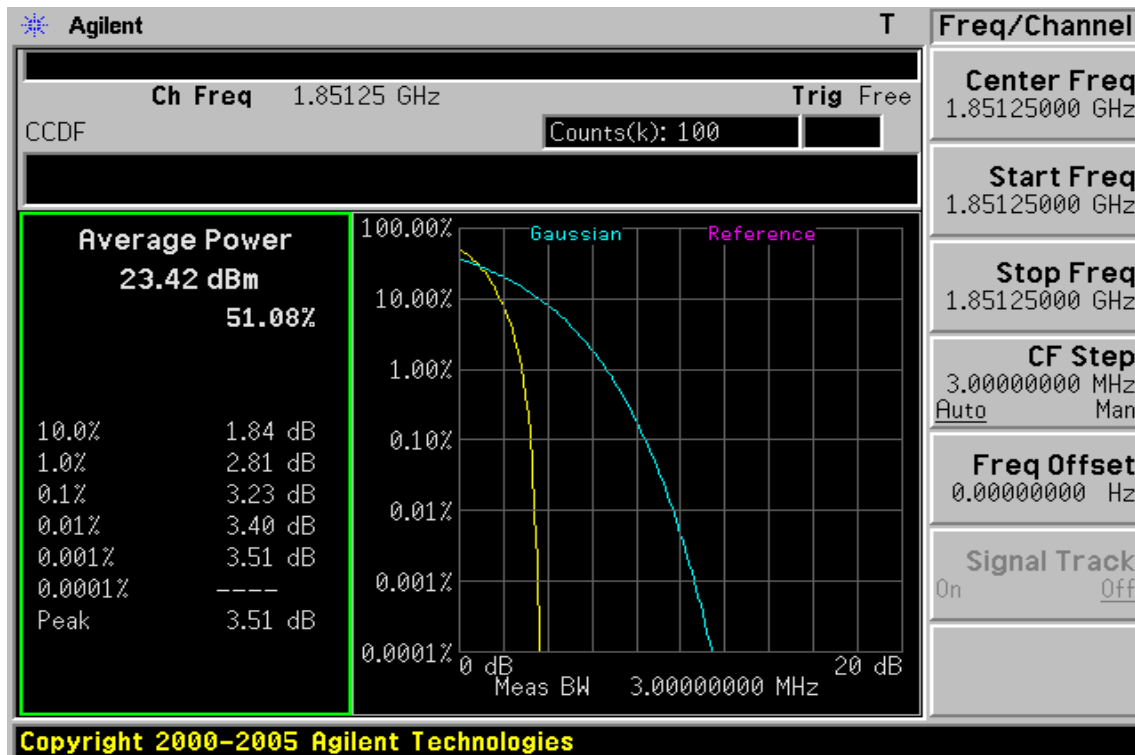


Figure 13-4: CDMA 2000 Cellular PCS (BC1) Channel Low



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Figure 13-5: CDMA 2000 Cellular PCS (BC1) Channel Mid

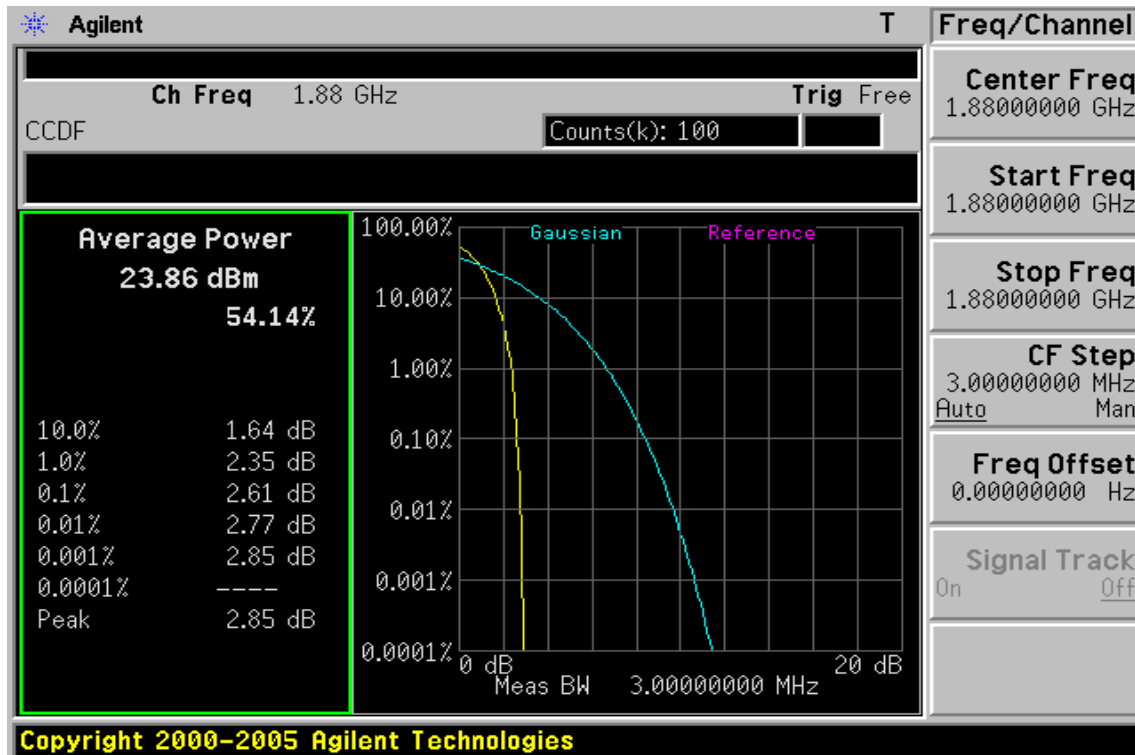
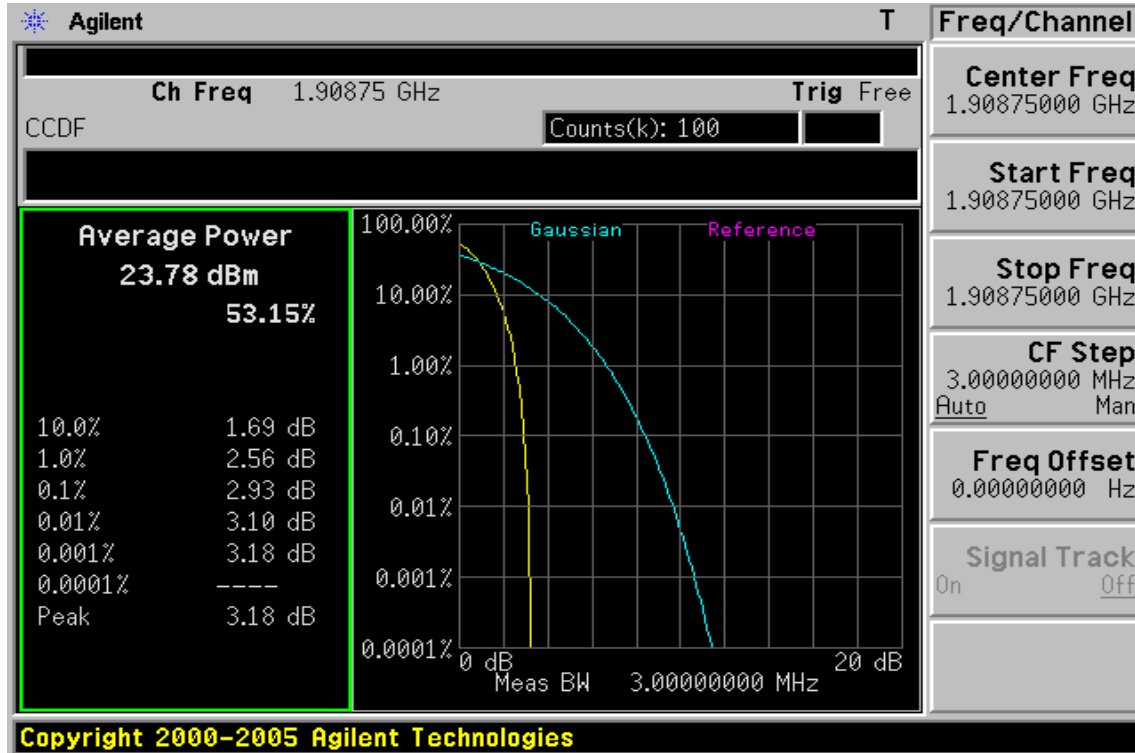


Figure 13-6: CDMA 2000 Cellular PCS (BC1) Channel High



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Figure 13-7: CDMA 2000 (BC10) Channel Low

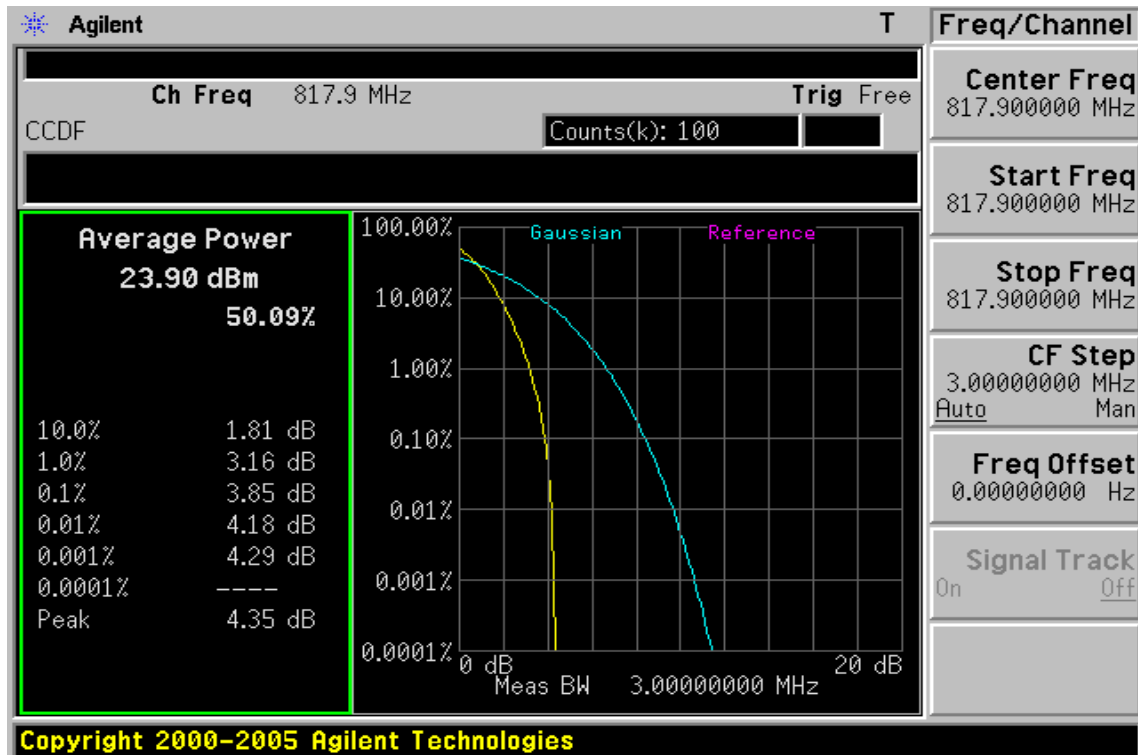
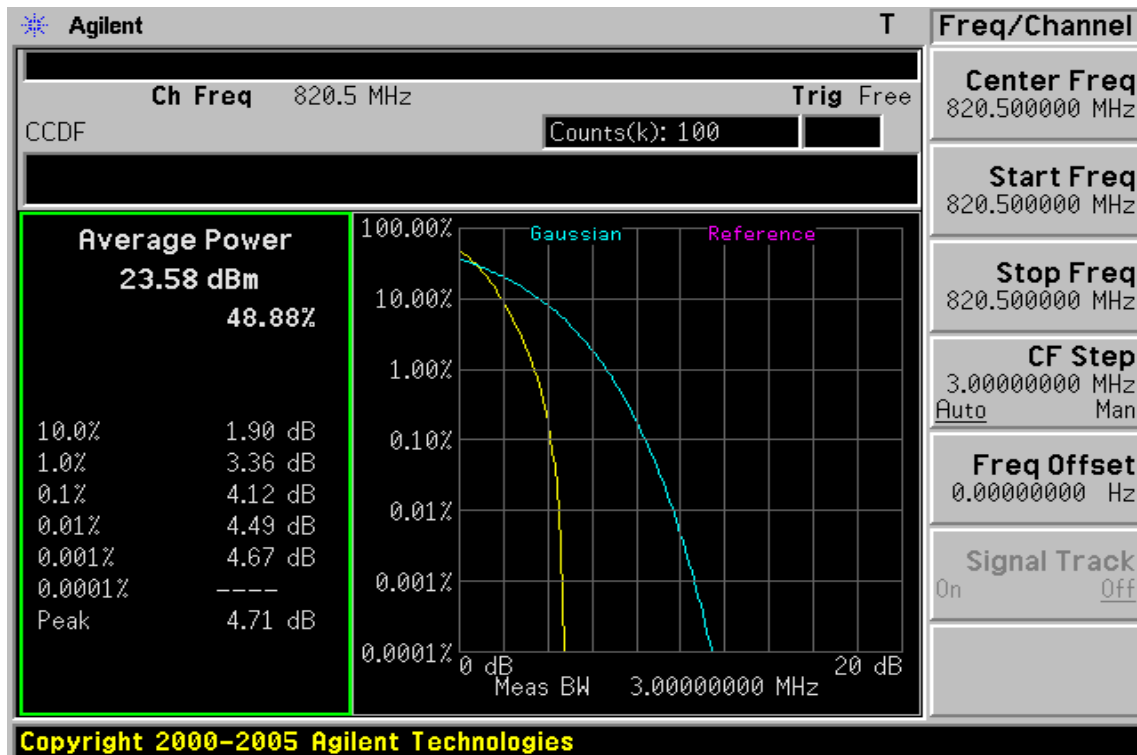


Figure 13-8: CDMA 2000 (BC10) Channel Mid



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Figure 13-9: CDMA 2000 (BC10) Channel High

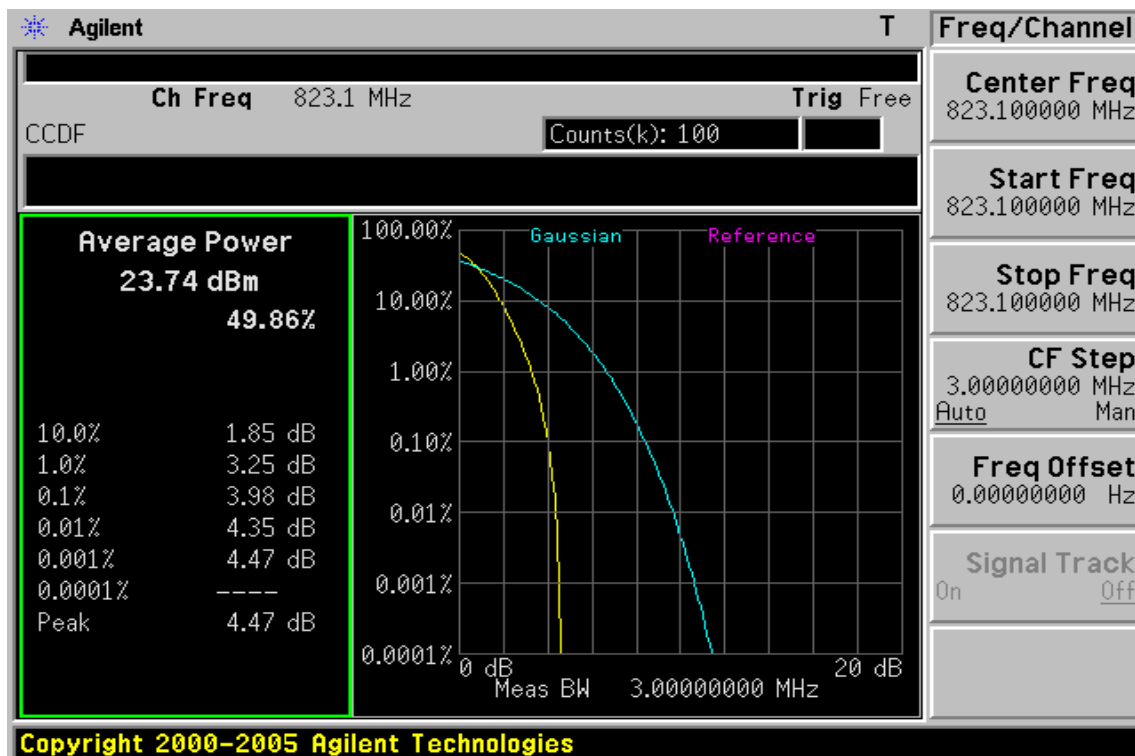
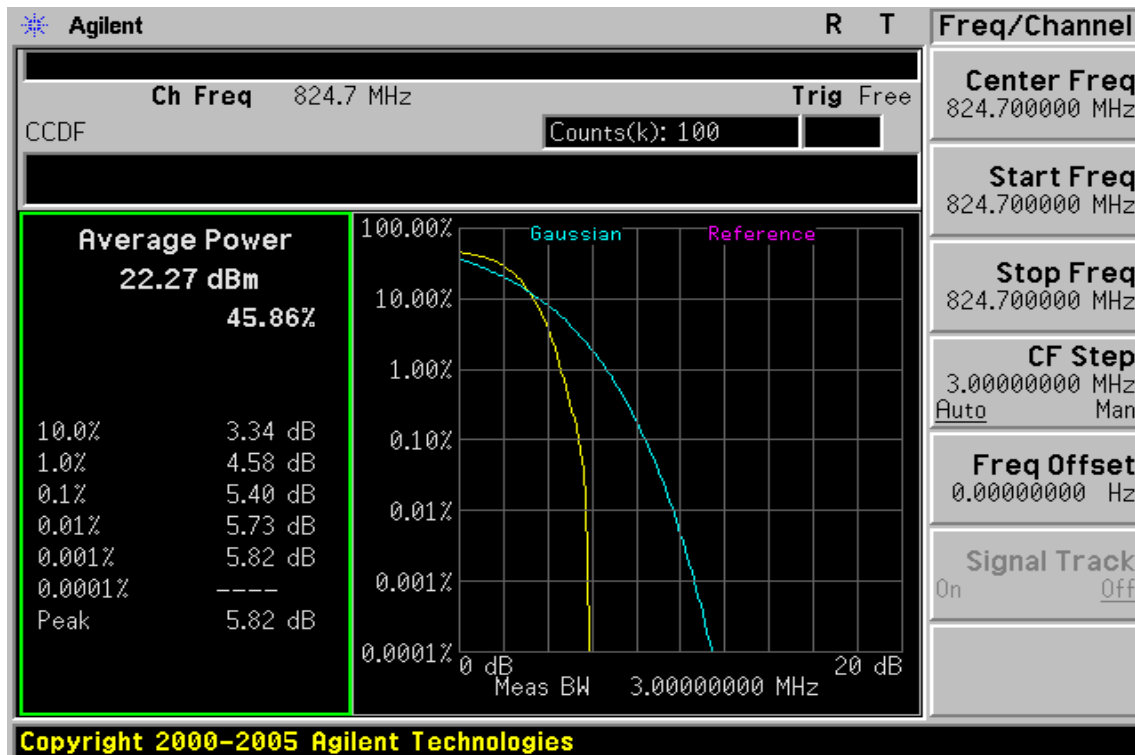


Figure 13-10: CDMA 2000 EVDO Cellular (BC0) Channel Low



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Figure 13-11 CDMA 2000 EVDO Cellular (BC0) Channel Mid

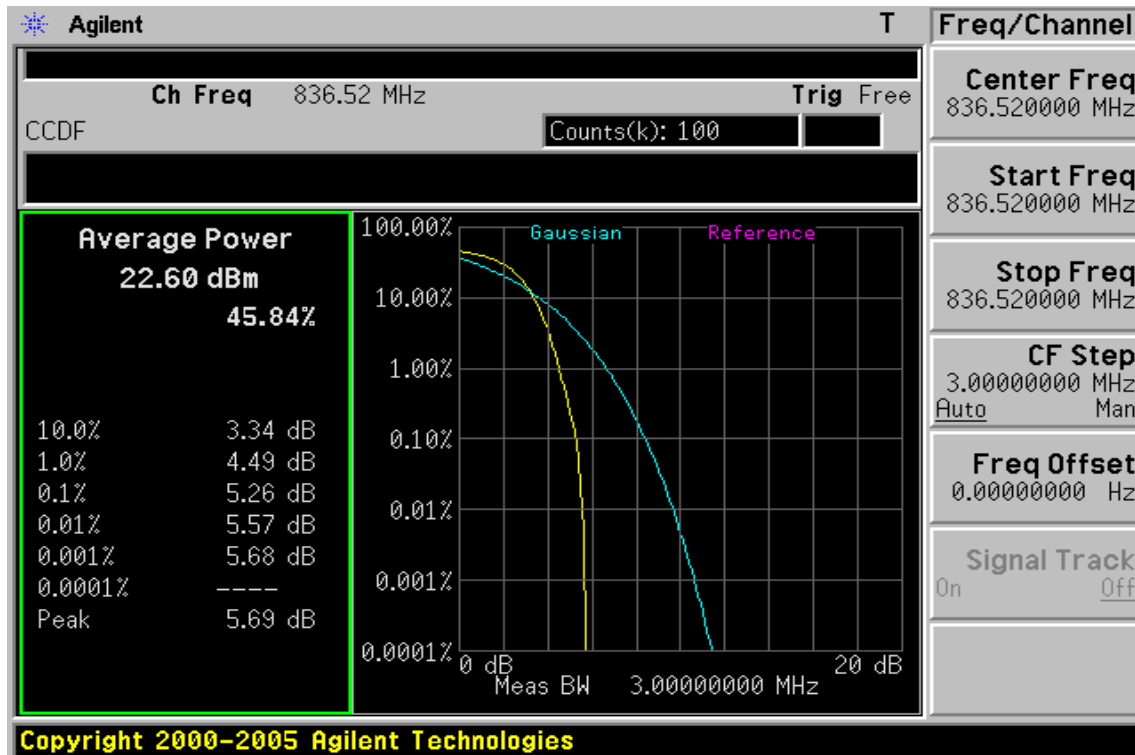
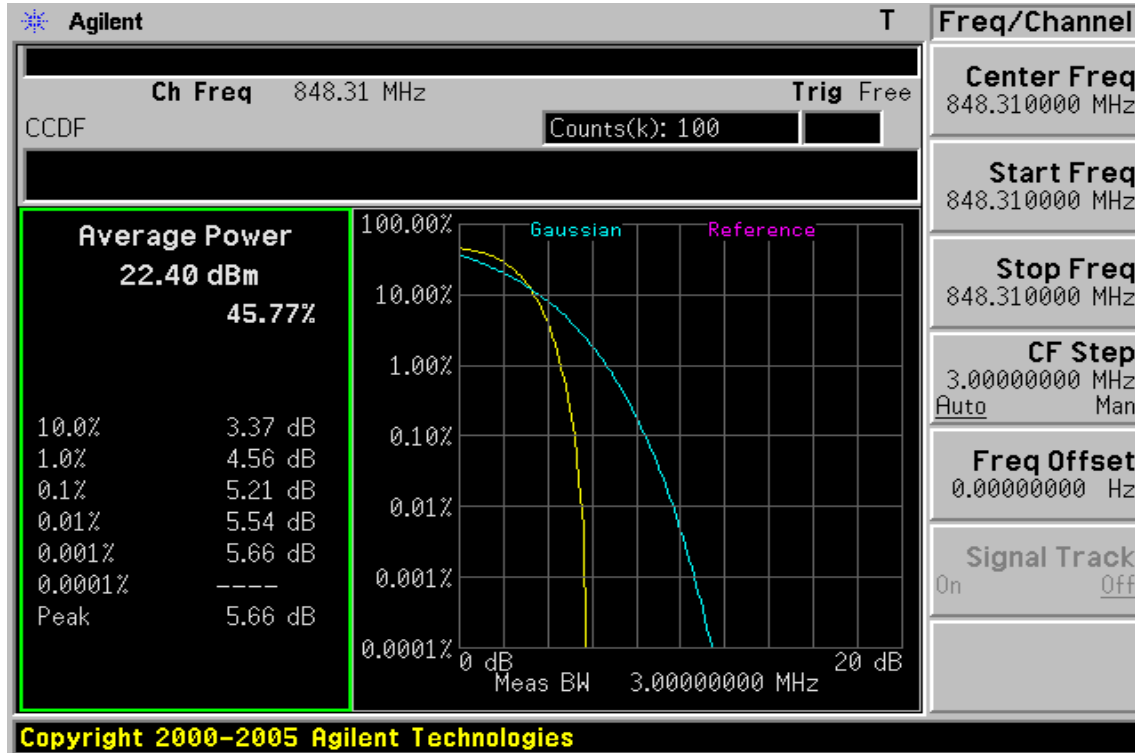


Figure 13-12: CDMA 2000 EVDO Cellular (BC0) Channel High



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Figure 13-13: CDMA 2000 EVDO PCS (BC1) Channel Low

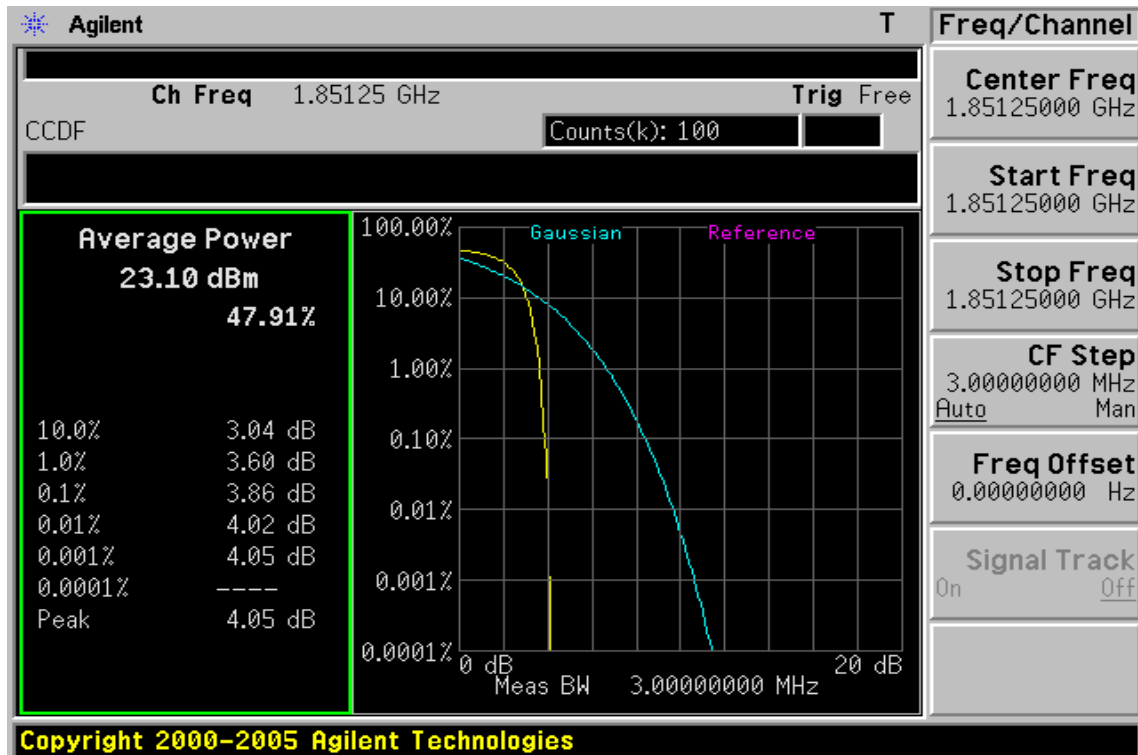


Figure 13-14: CDMA 2000 EVDO PCS (BC1) Channel Mid



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Figure 13-15: CDMA 2000 EVDO PCS (BC1) Channel High

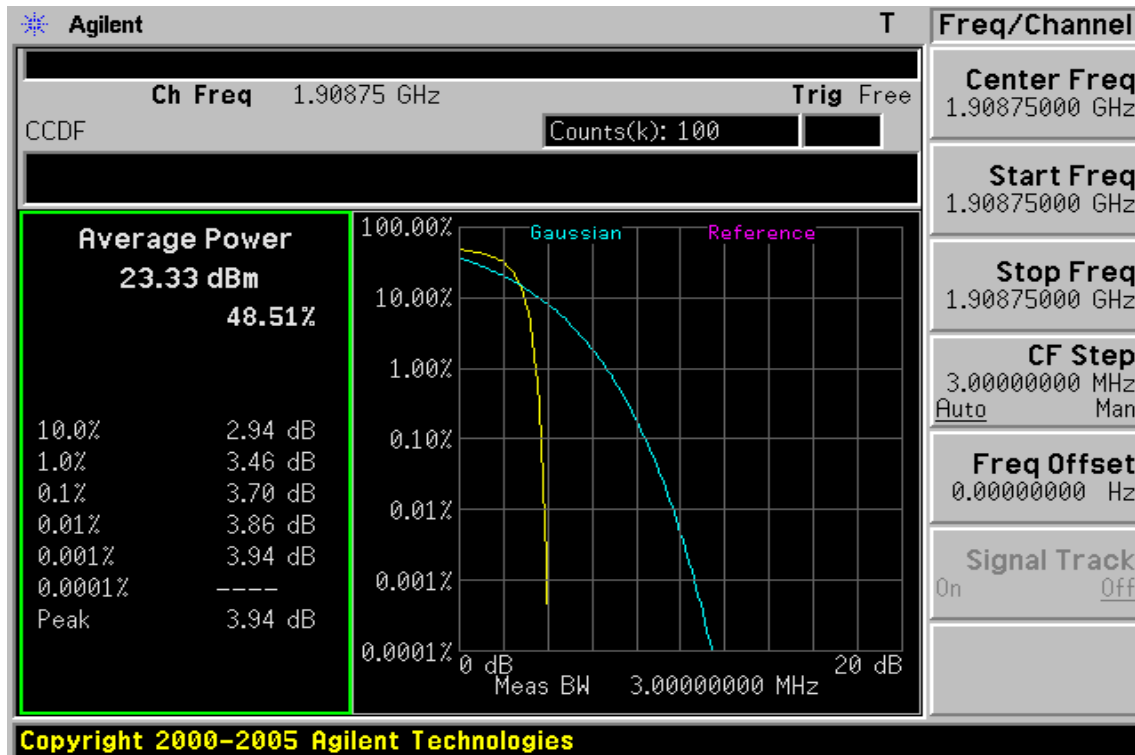
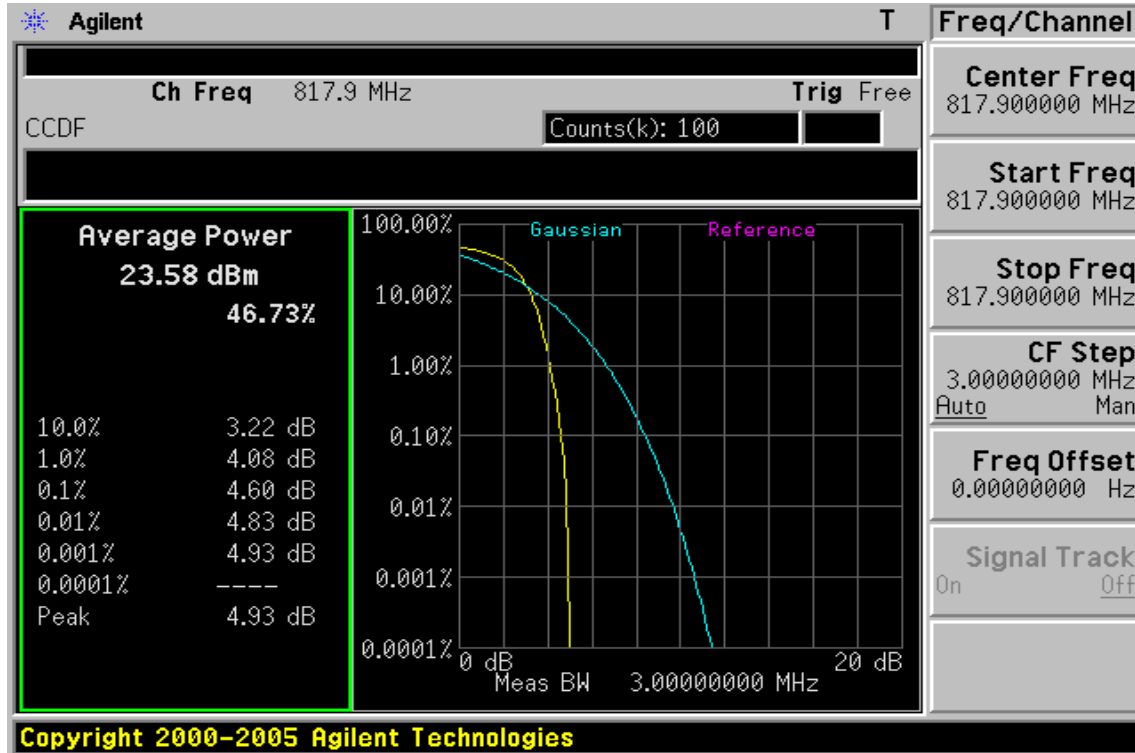


Figure 13-16: CDMA 2000 EVDO (BC10) Channel Low



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Figure 13-17 CDMA 2000 EVDO (BC10) Channel Mid

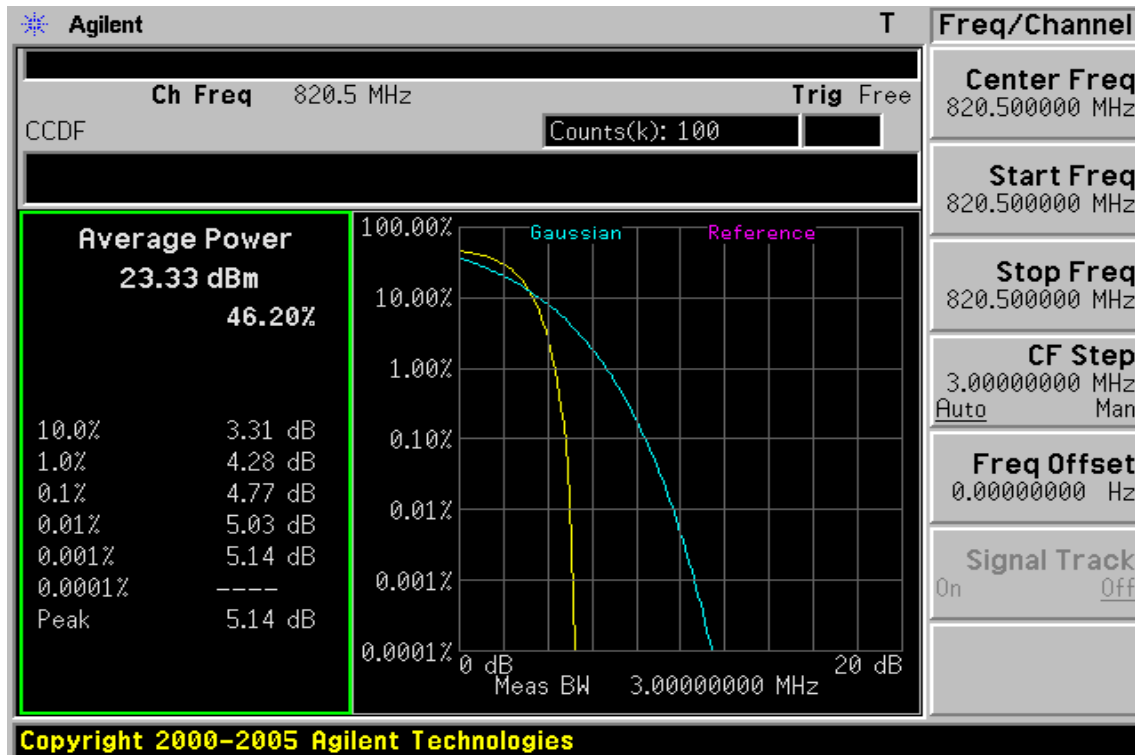
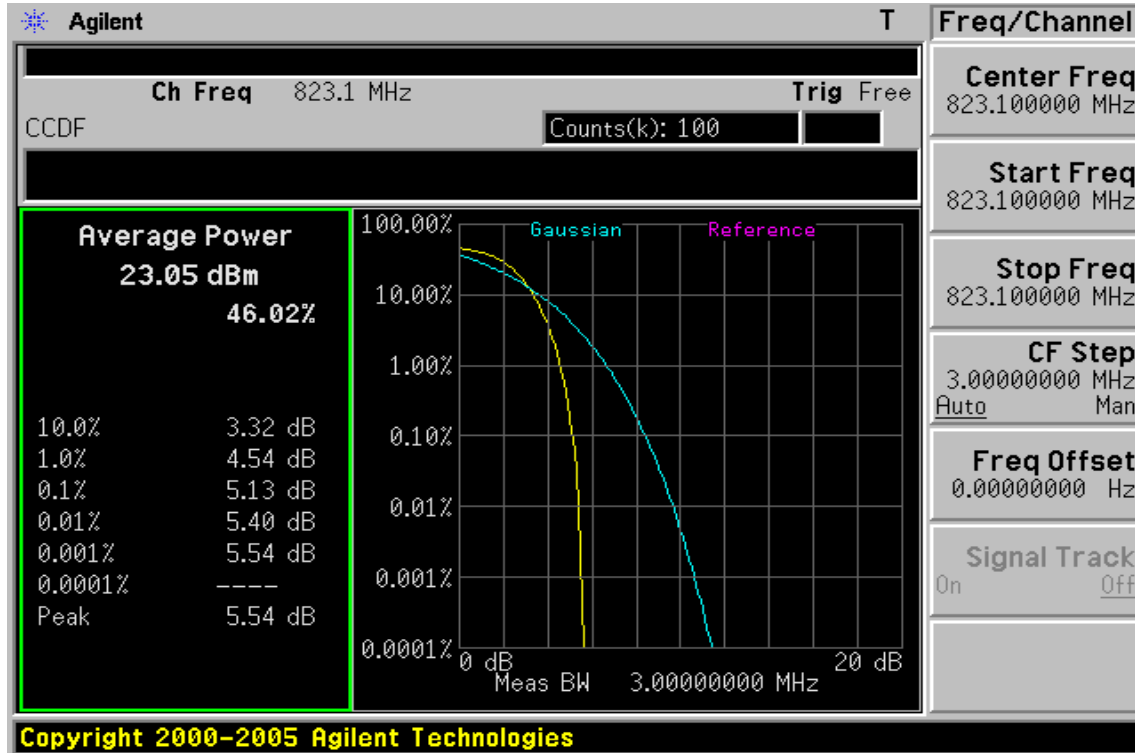


Figure 13-18: CDMA 2000 EVDO (BC10) Channel High



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Figure 13-19: 1.4MHz BW LTE-Band 25(16QAM Number: 6 Offset: 0) Channel Low

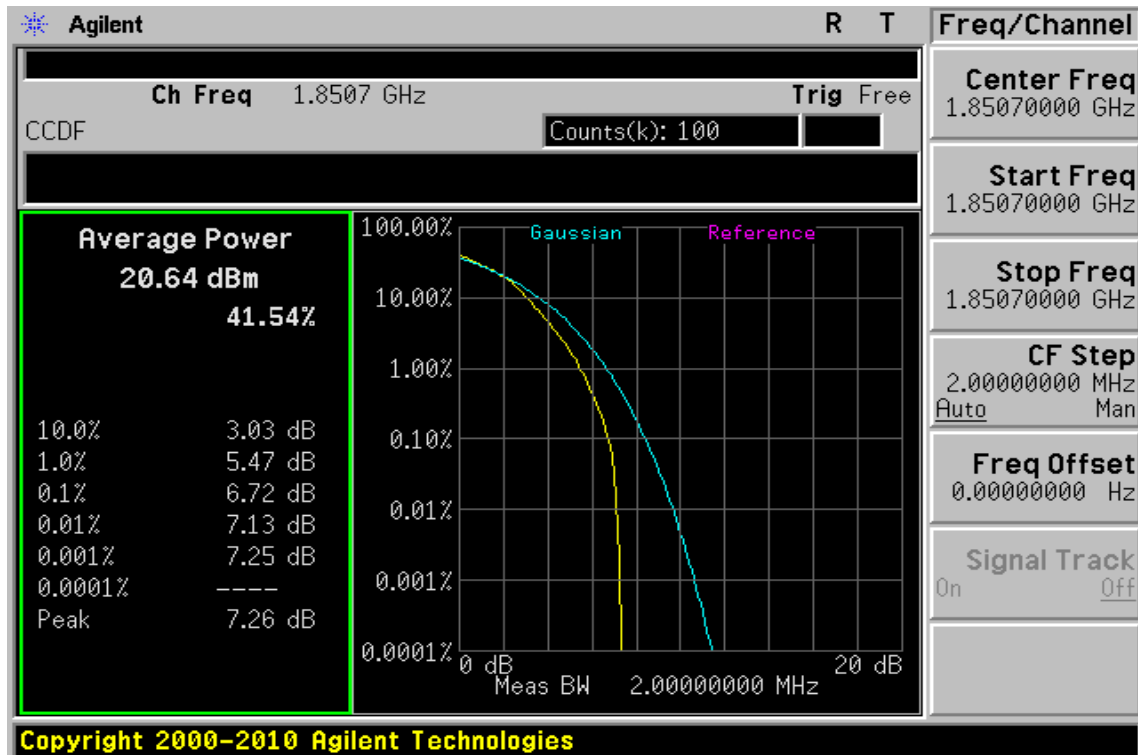
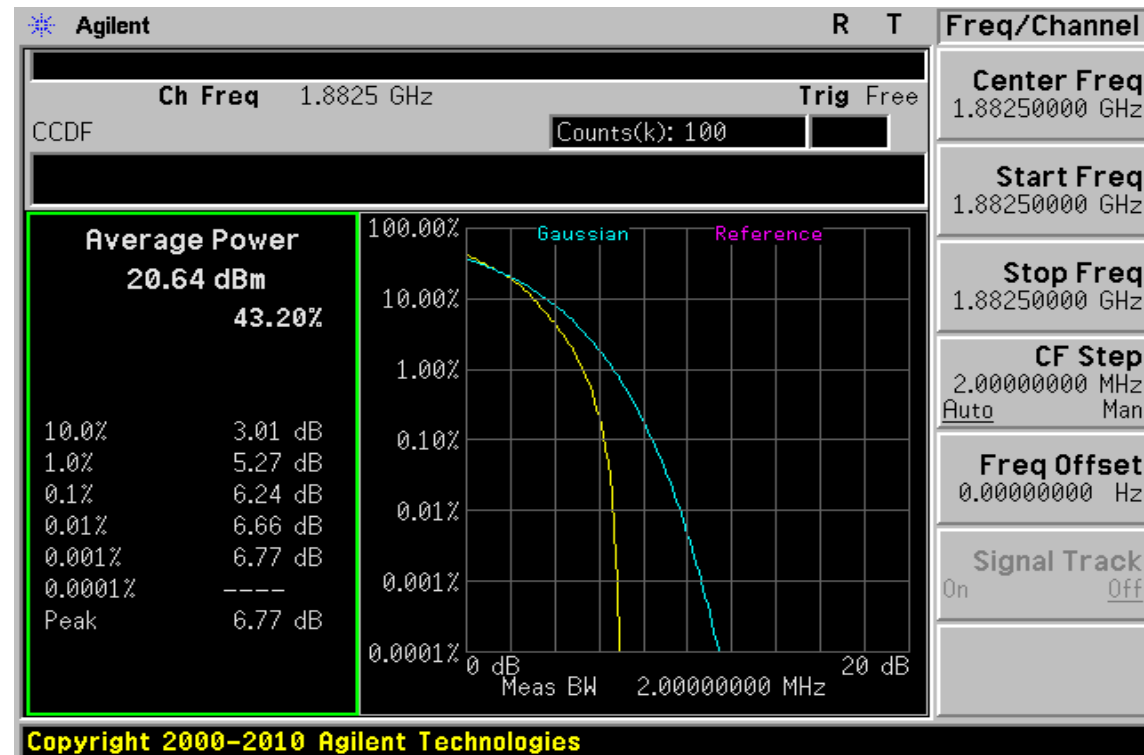


Figure 13-20: 1.4MHz BW LTE-Band 25(16QAM Number: 6 Offset: 0) Channel Mid



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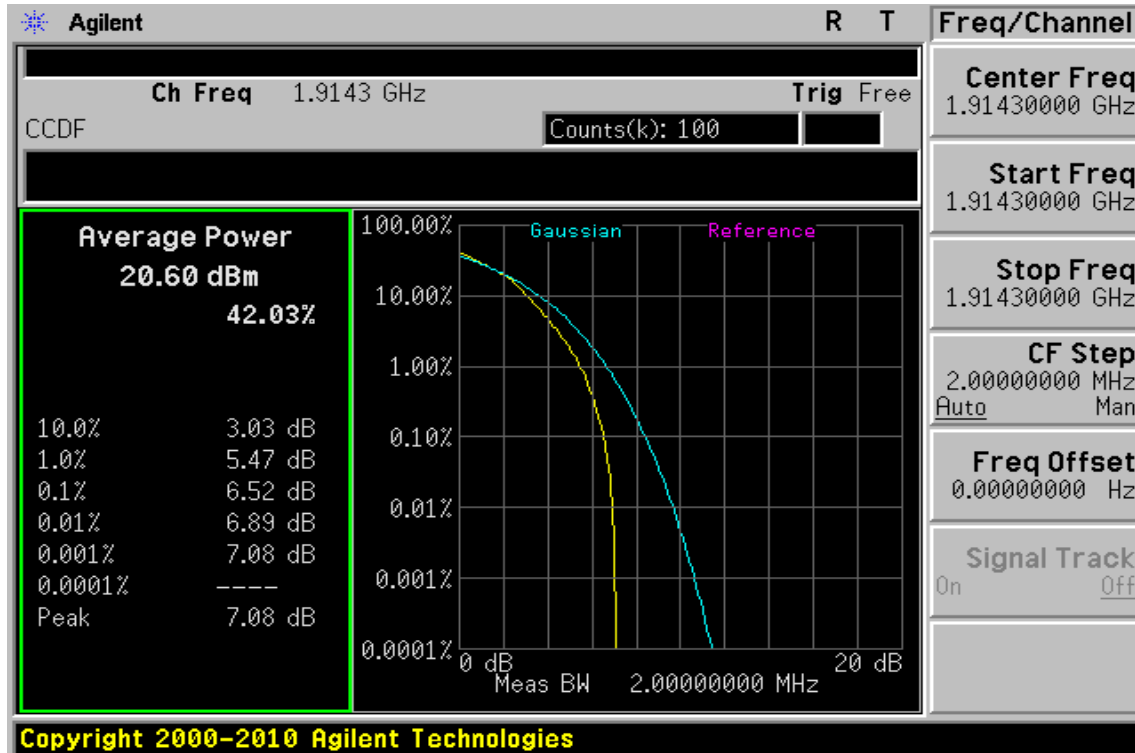
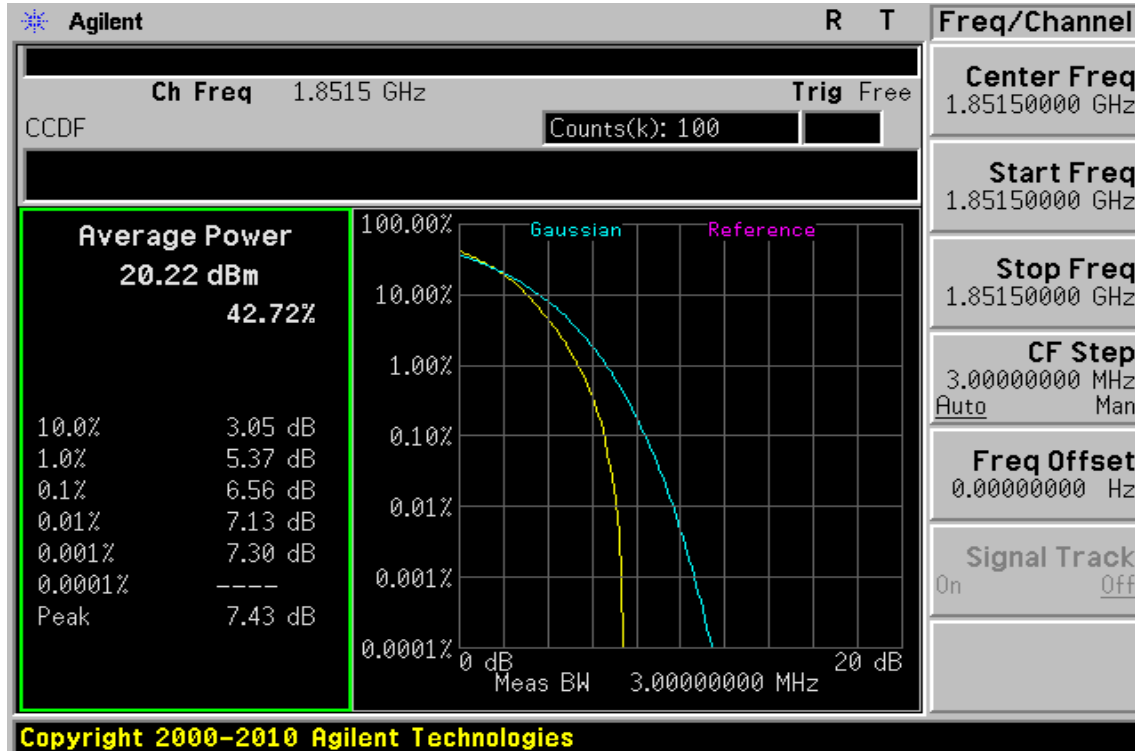
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Figure 13-21: 1.4MHz BW LTE-Band 25(16QAM Number: 6 Offset: 0) Channel High

Figure 13-22: 3MHz BW LTE-Band 25(16QAM Number: 15 Offset: 0) Channel Low


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Figure 13-23: 3MHz BW LTE-Band 25(16QAM Number: 15 Offset: 0) Channel Mid

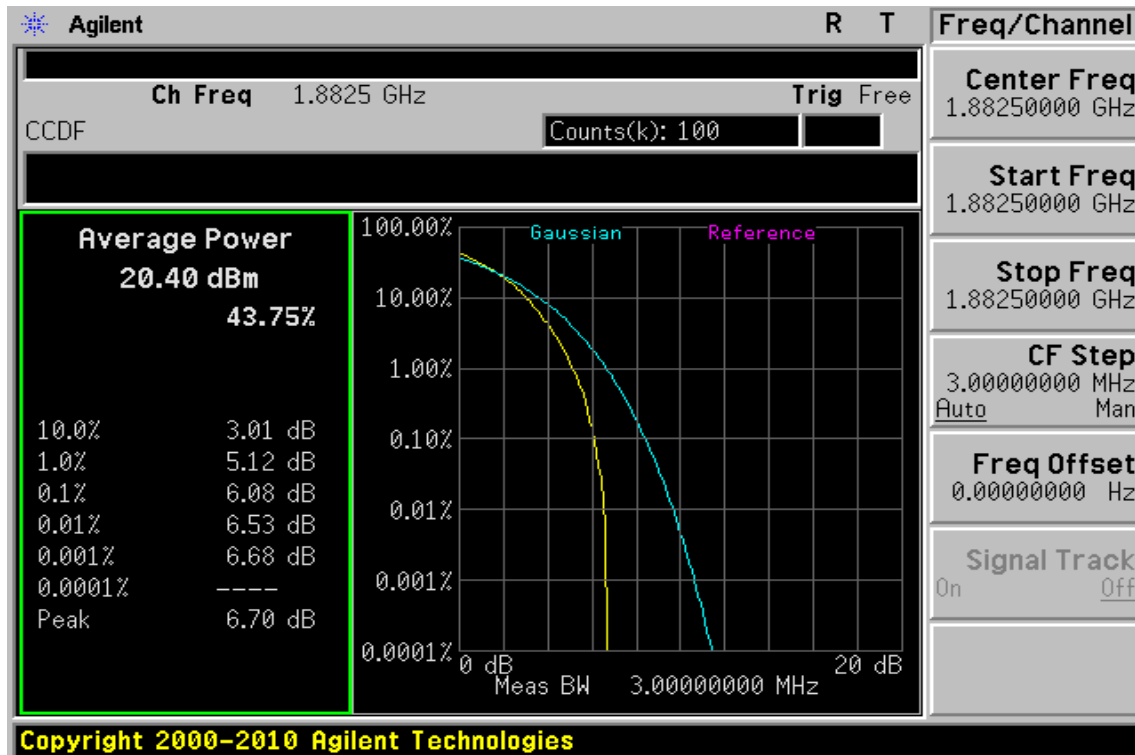
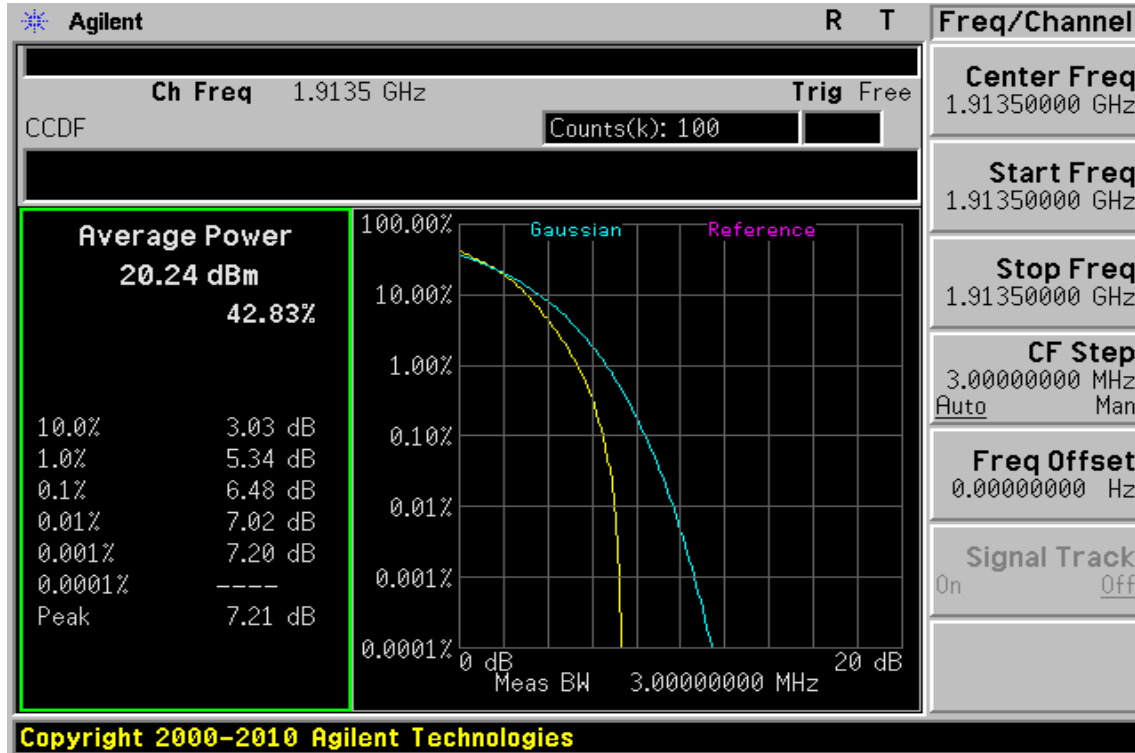


Figure 13-24: 3MHz BW LTE-Band 25(16QAM Number: 15 Offset: 0) Channel High



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Figure 13-25: 5MHz BW LTE-Band 25(16QAM Number: 25 Offset: 0) Channel Low

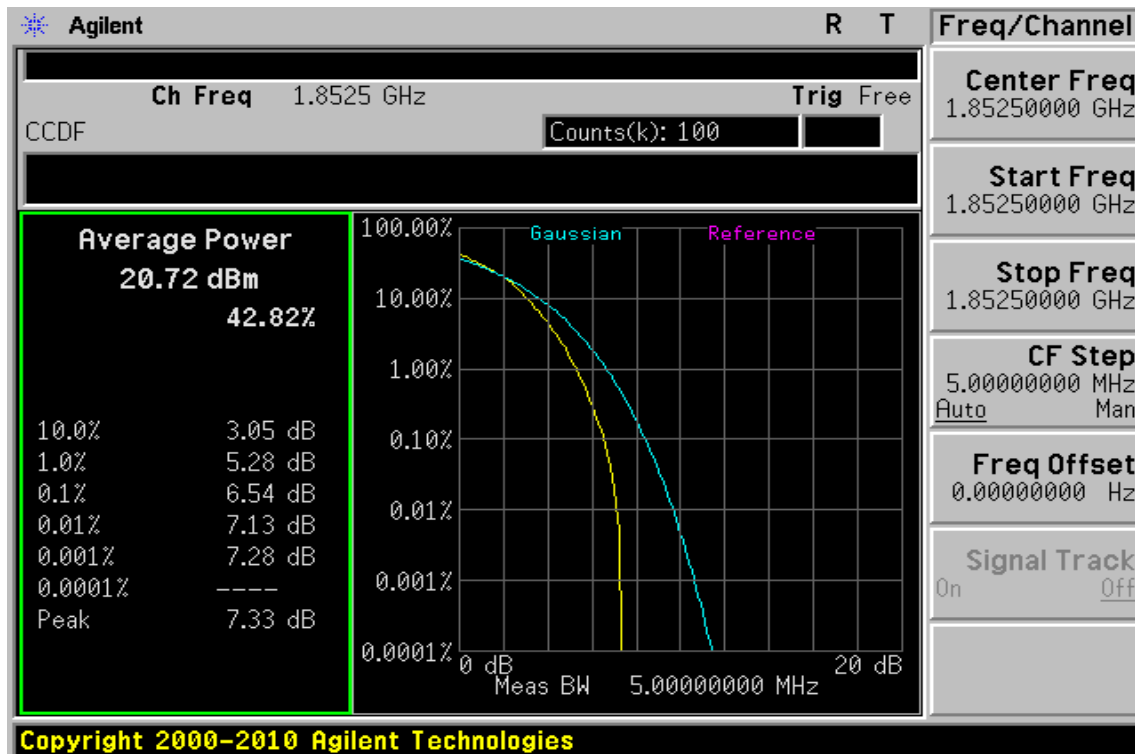


Figure 13-26: 5MHz BW LTE-Band 25(16QAM Number: 25 Offset: 0) Channel Mid



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Figure 13-27: 5MHz BW LTE-Band 25(16QAM Number: 25 Offset: 0) Channel High

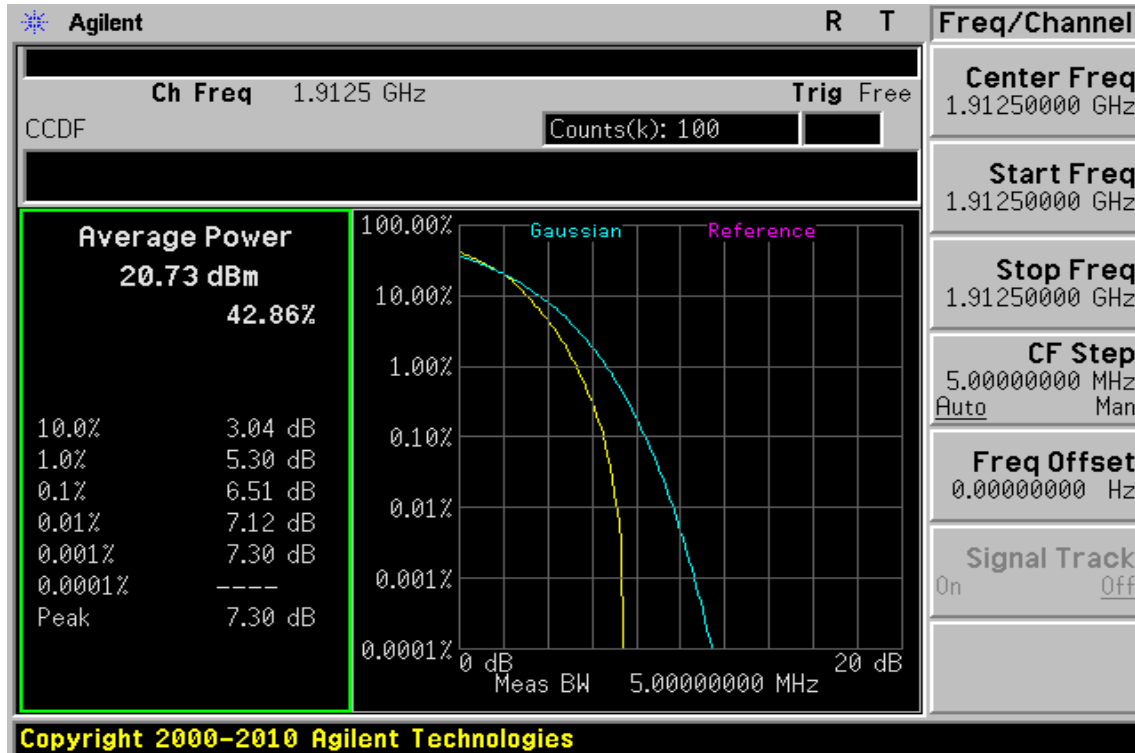
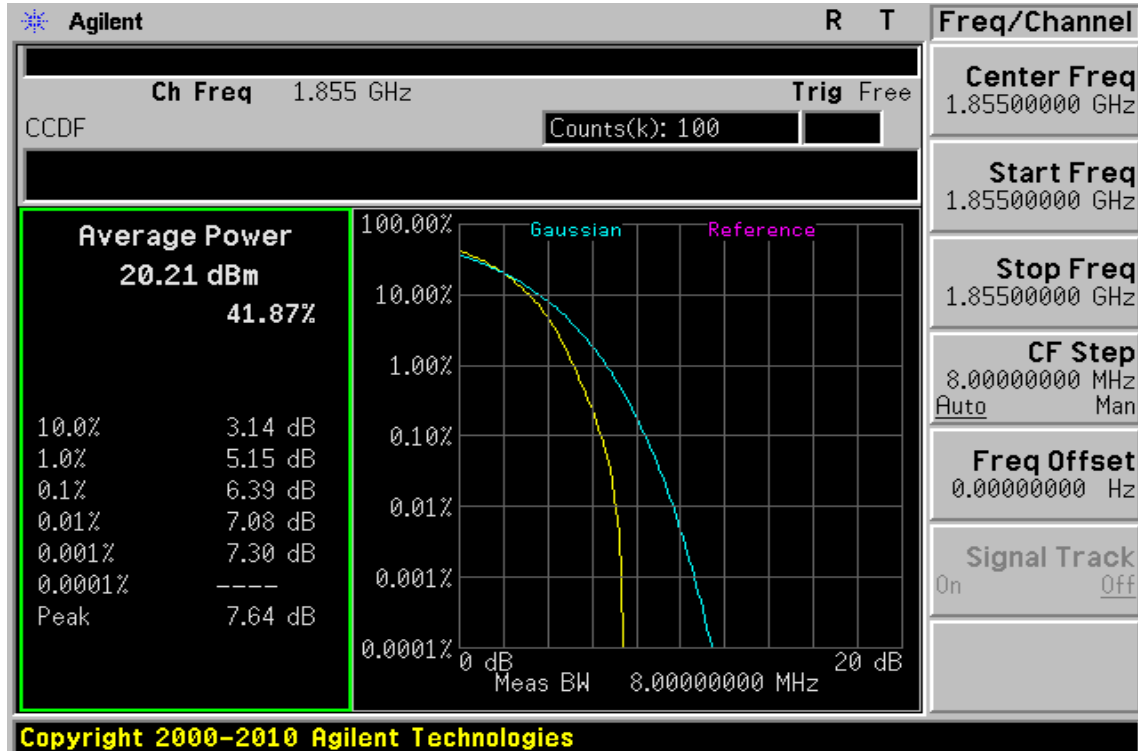


Figure 13-28: 10MHz BW LTE-Band 25(16QAM Number: 50 Offset: 0) Channel Low



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Figure 13-29: 10MHz BW LTE-Band 25(16QAM Number: 50 Offset: 0) Channel Mid

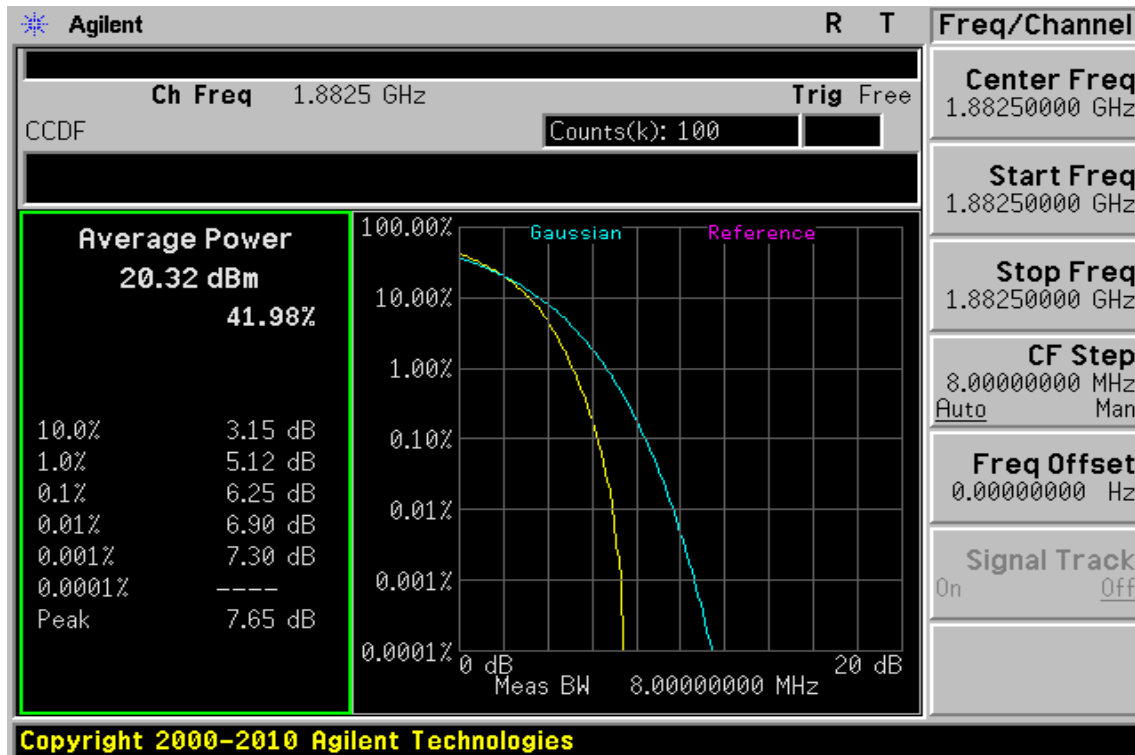
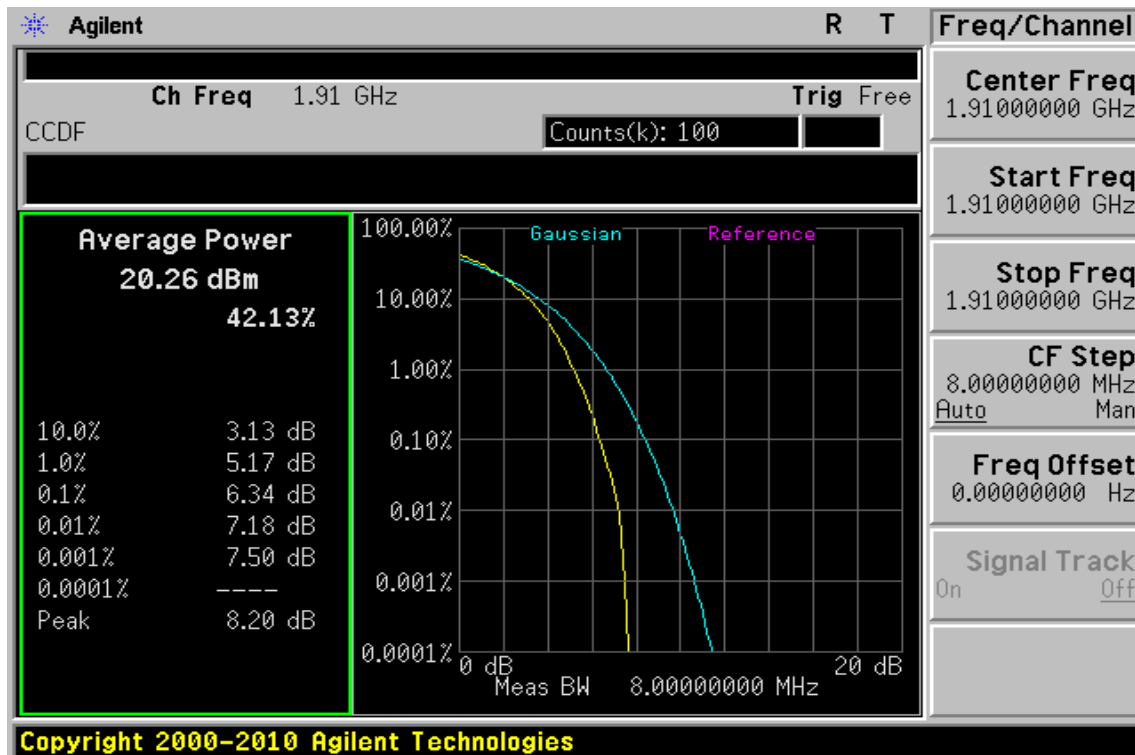


Figure 13-30: 10MHz BW LTE-Band 25(16QAM Number: 50 Offset: 0) Channel High



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Figure 13-31: 15MHz BW LTE-Band 25(16QAM Number: 75 Offset: 0) Channel Low

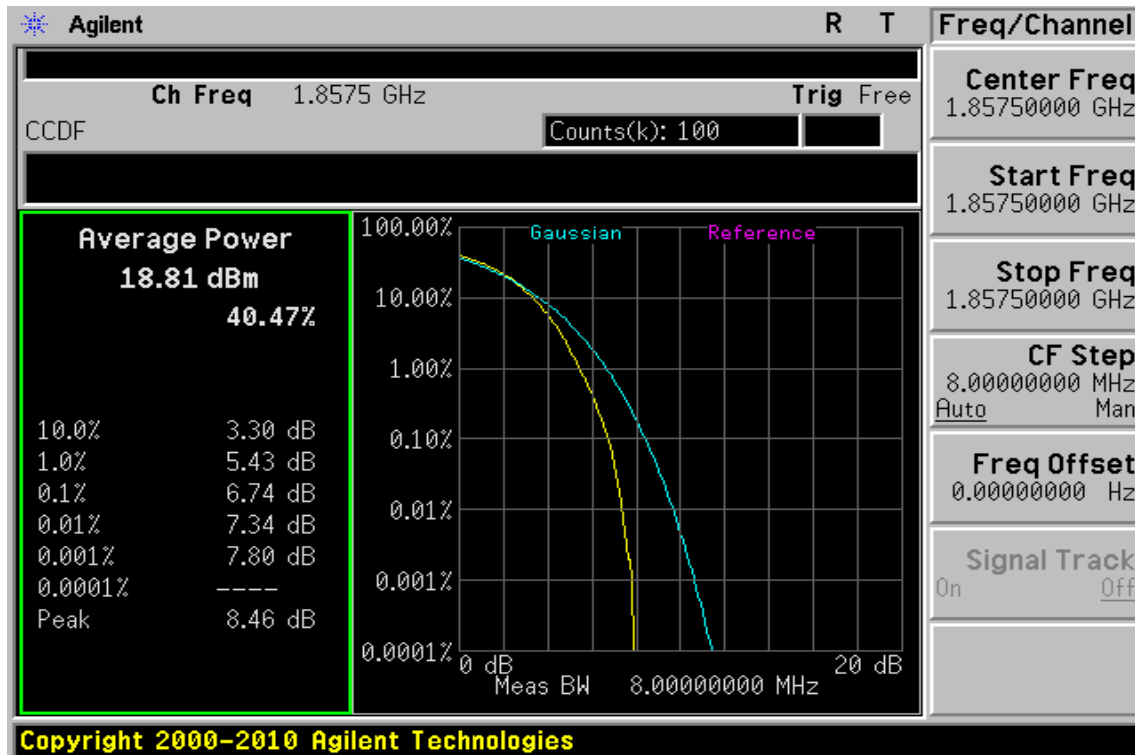
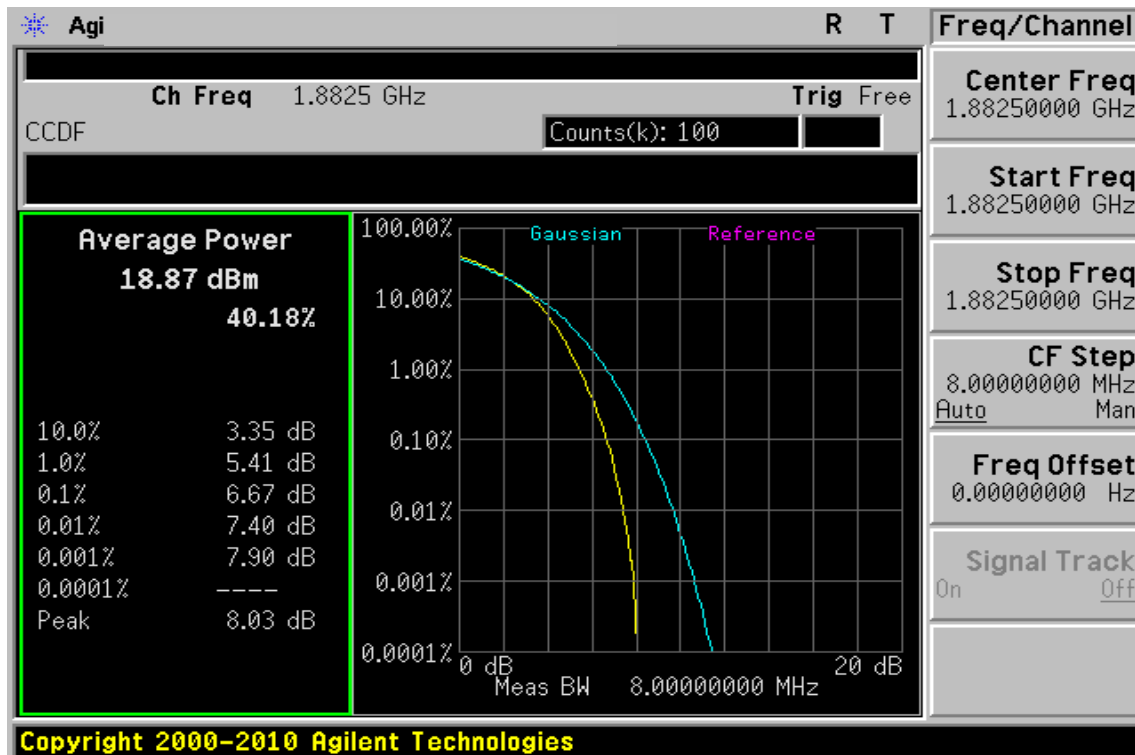


Figure 13-32: 15MHz BW LTE-Band 25(16QAM Number: 75 Offset: 0) Channel Mid



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Figure 13-33: 15MHz BW LTE-Band 25(16QAM Number: 75 Offset: 0) Channel High

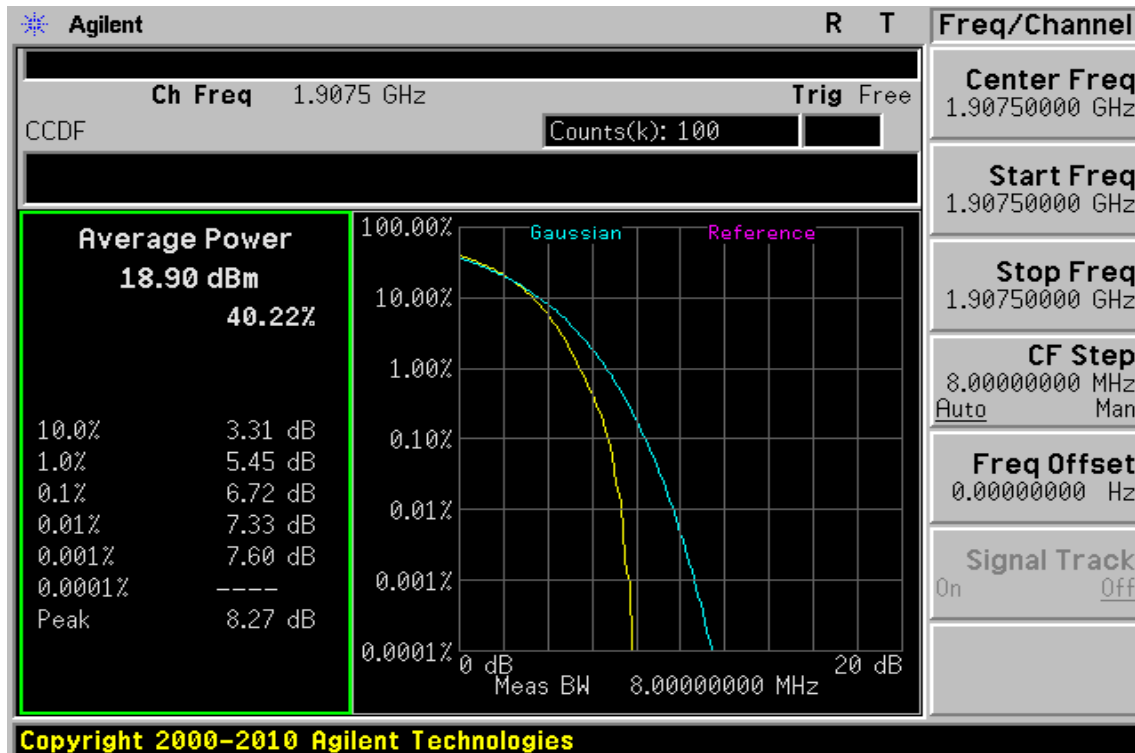
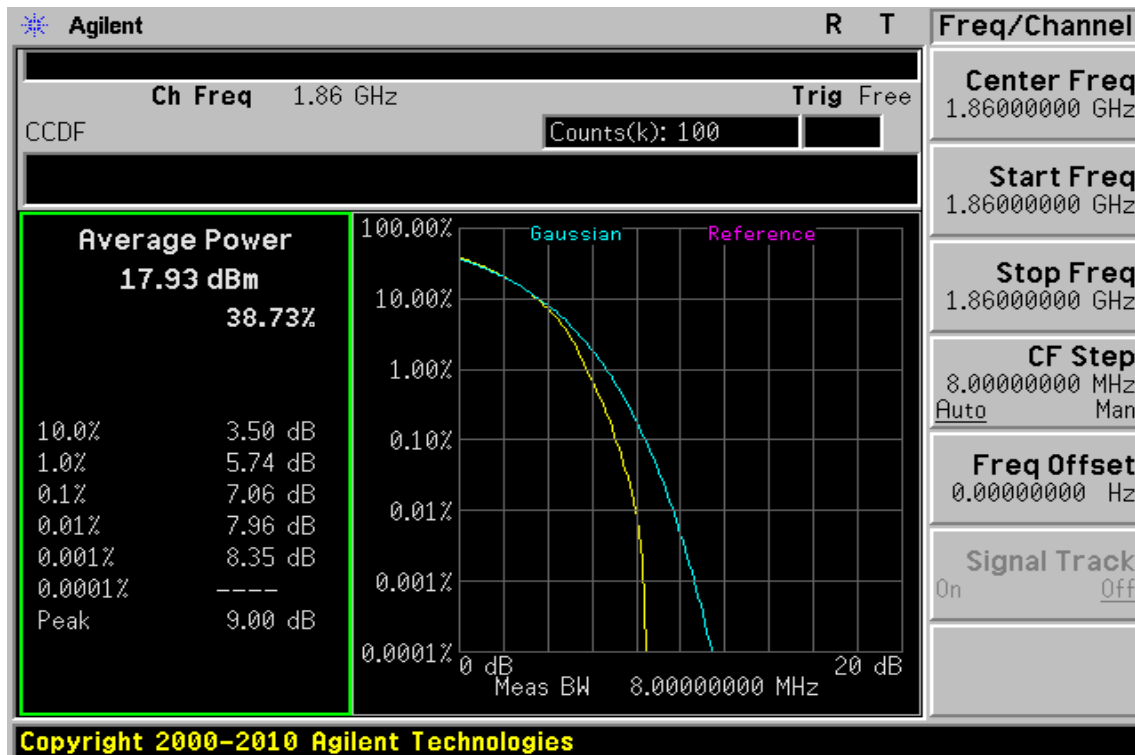


Figure 13-34: 20MHz BW LTE-Band 25(16QAM Number: 100 Offset: 0) Channel Low



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Figure 13-35: 20MHz BW LTE-Band 25(16QAM Number: 100 Offset: 0) Channel Mid

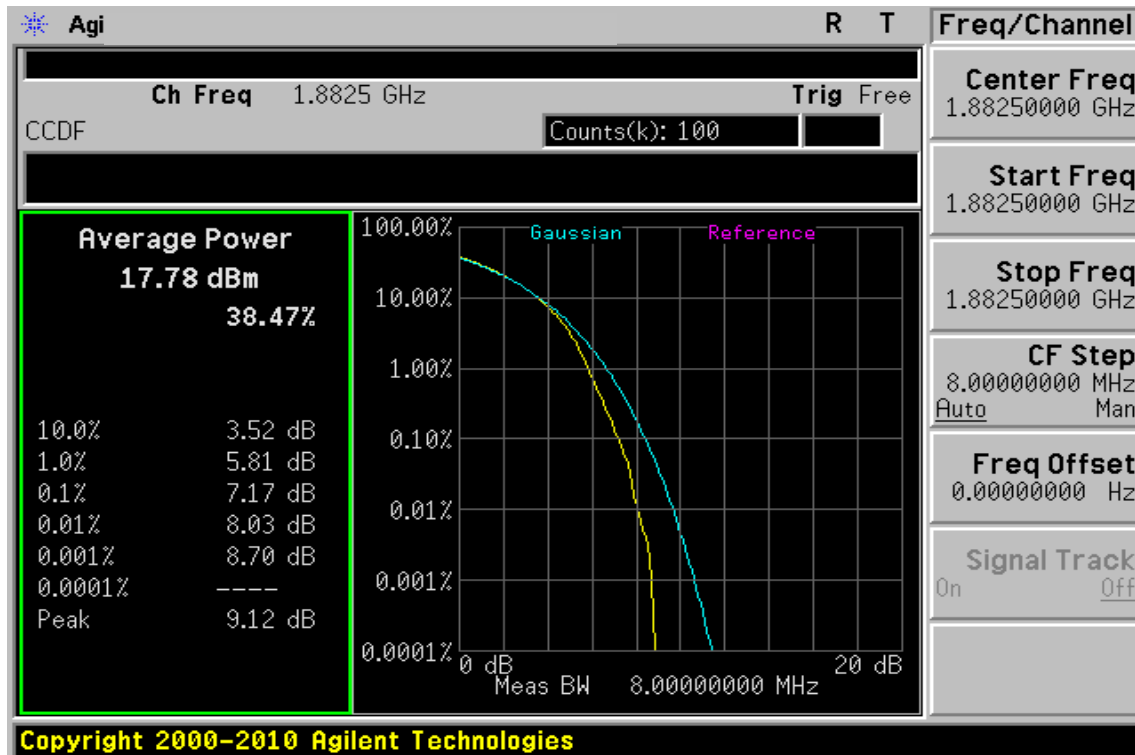
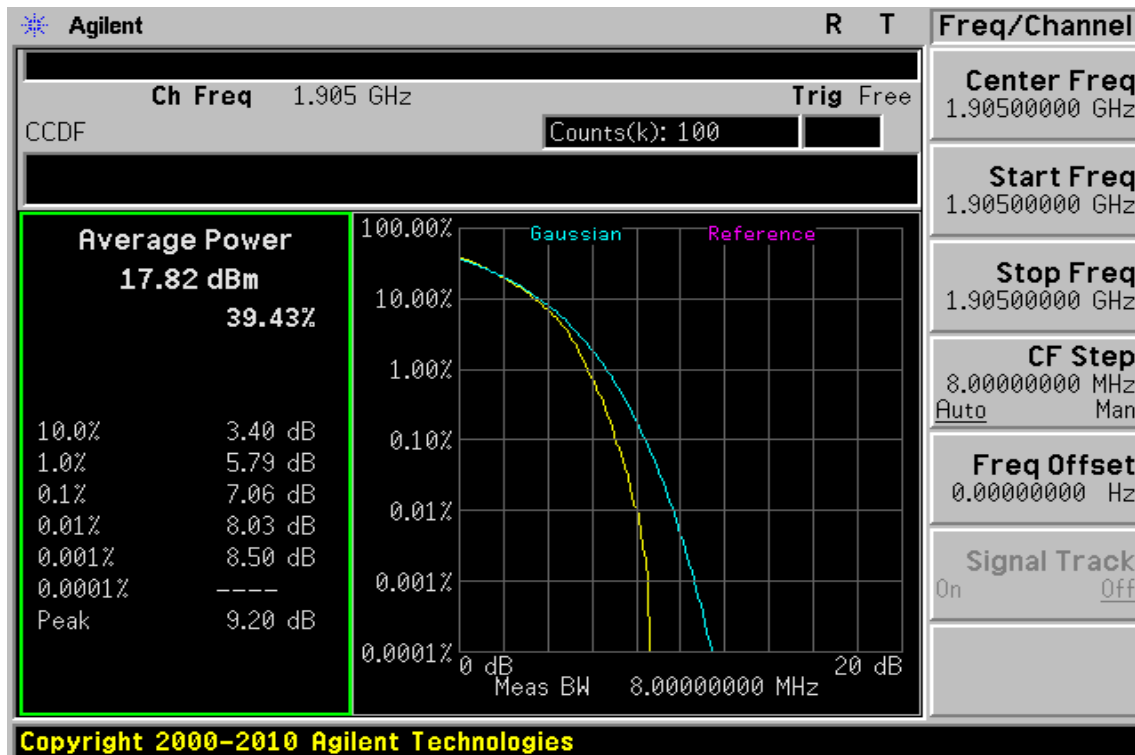


Figure 13-36: 20MHz BW LTE-Band 25(16QAM Number: 100 Offset: 0) Channel High



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Figure 13-37: 1.4MHz BW LTE-Band 26(16QAM Number: 6 Offset: 0) Channel Low

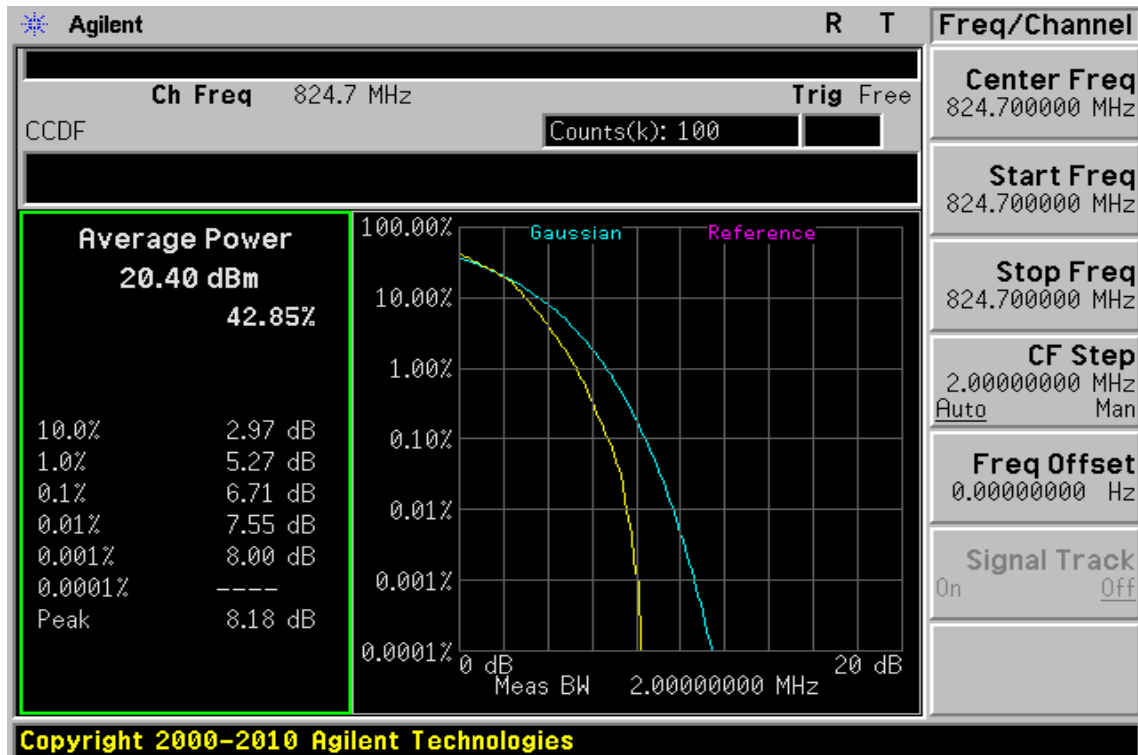
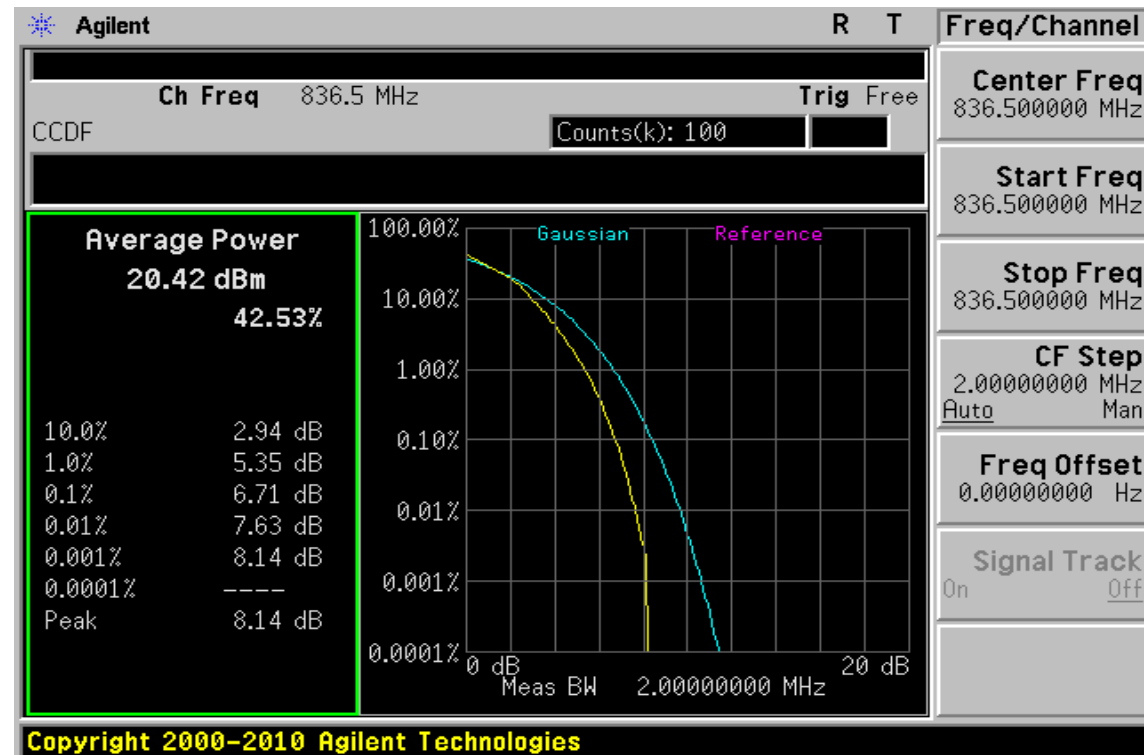


Figure 13-38: 1.4MHz BW LTE-Band 26(16QAM Number: 6 Offset: 0) Channel Mid



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Figure 13-39: 1.4MHz BW LTE-Band 26(16QAM Number: 6 Offset: 0) Channel High

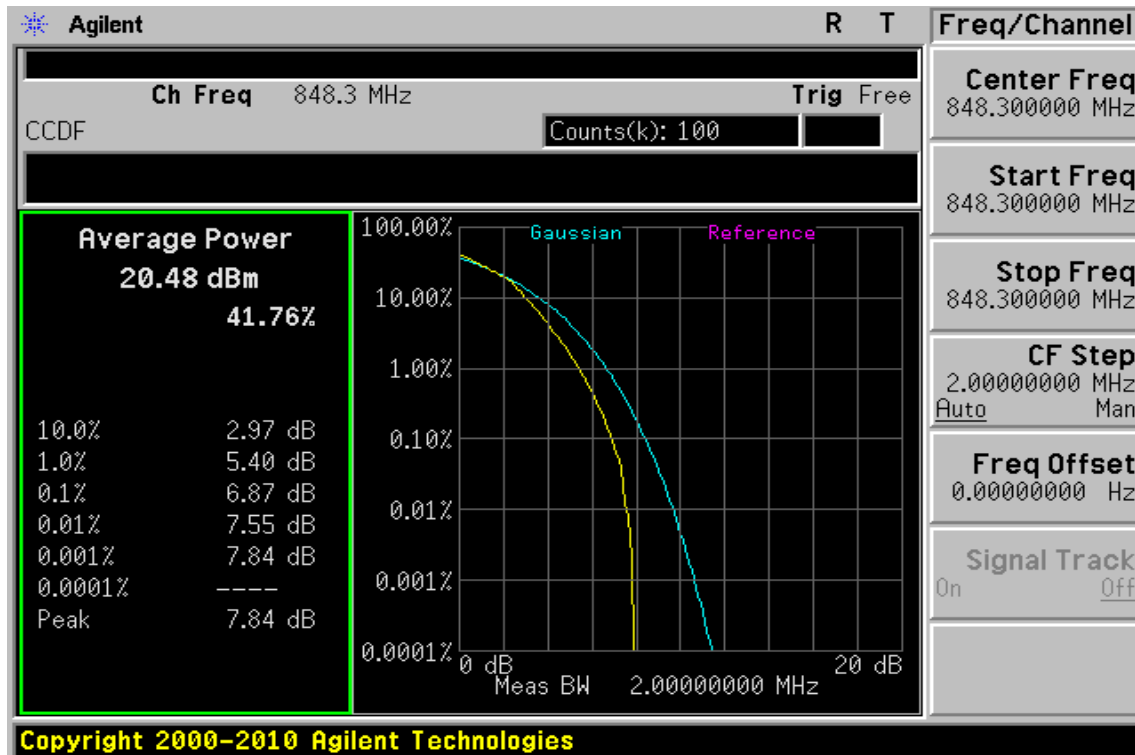
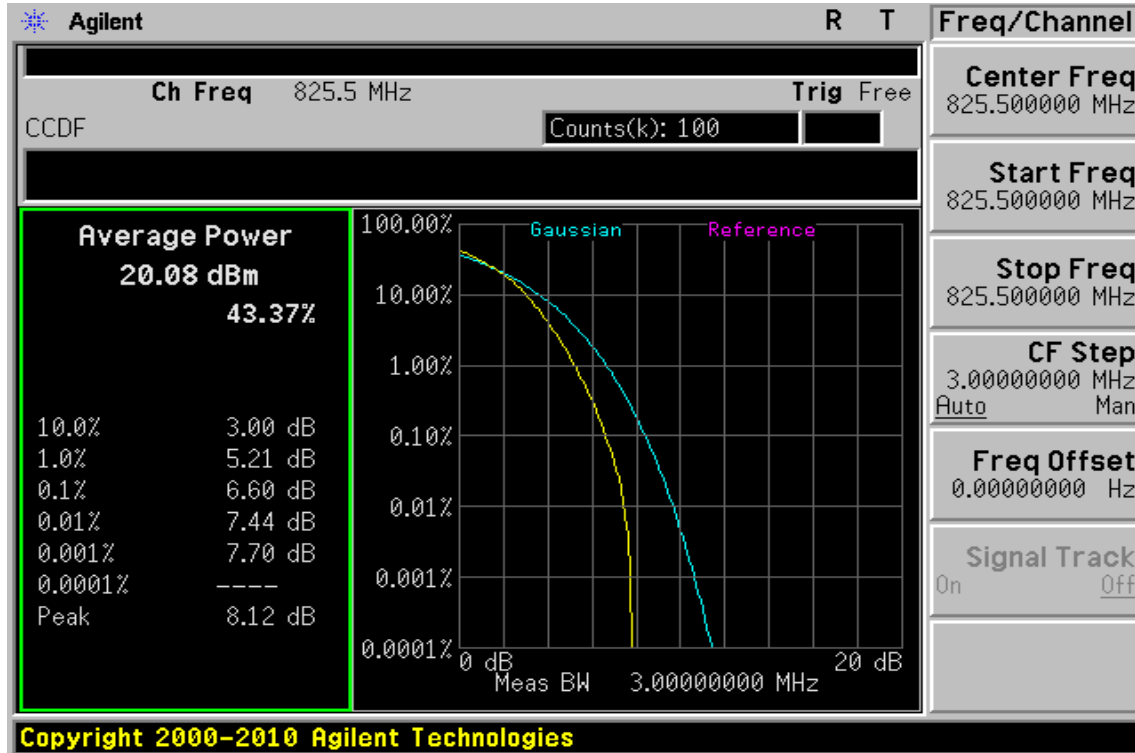


Figure 13-40: 3MHz BW LTE-Band 26(16QAM Number: 15 Offset: 0) Channel Low



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Figure 13-41: 3MHz BW LTE-Band 26(16QAM Number: 15 Offset: 0) Channel Mid

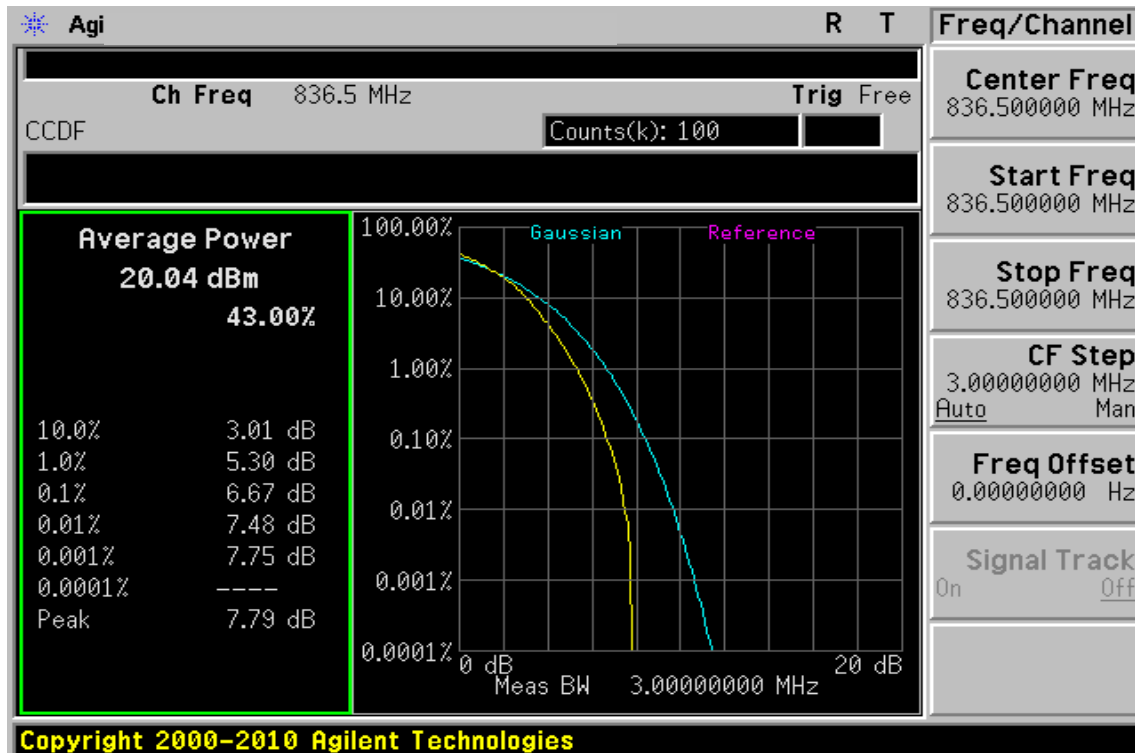
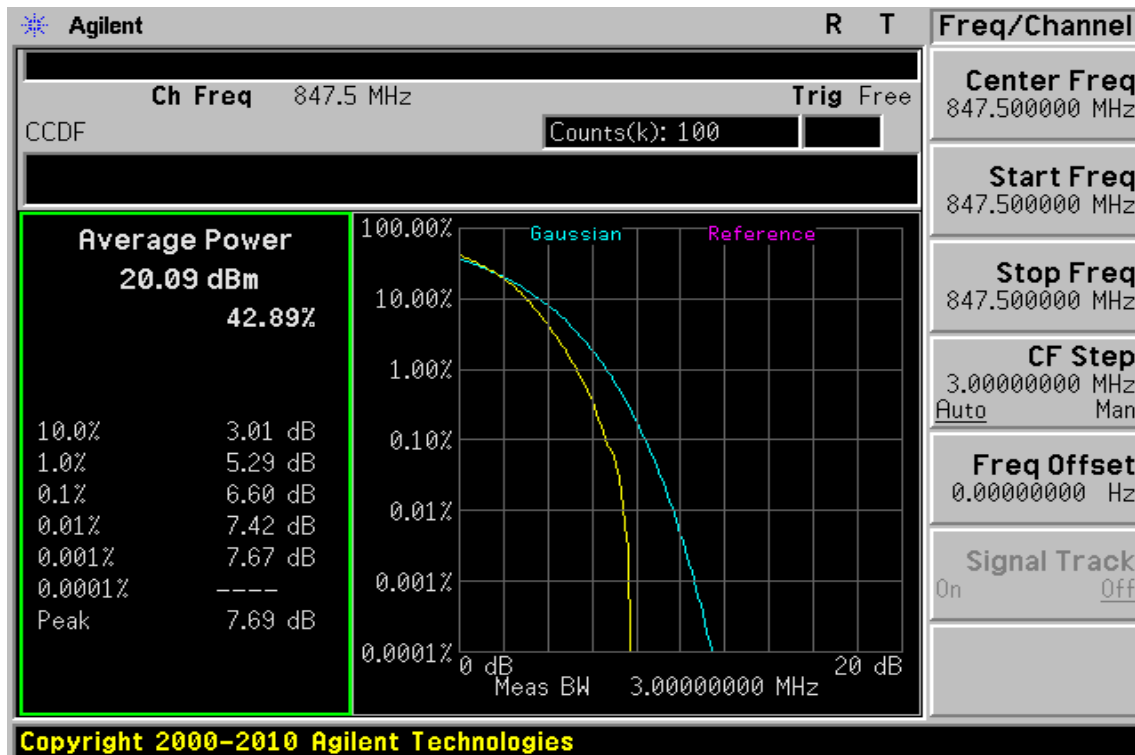


Figure 13-42: 3MHz BW LTE-Band 26(16QAM Number: 15 Offset: 0) Channel High



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Figure 13-43: 5MHz BW LTE-Band 26(16QAM Number: 25 Offset: 0) Channel Low

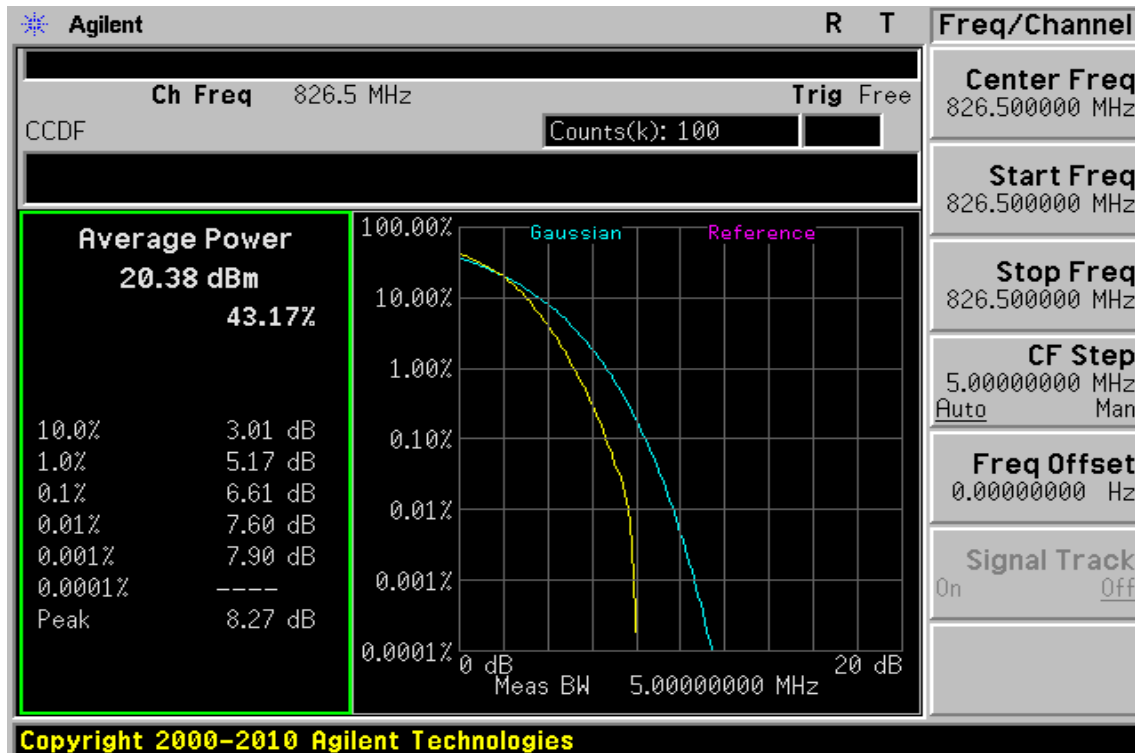
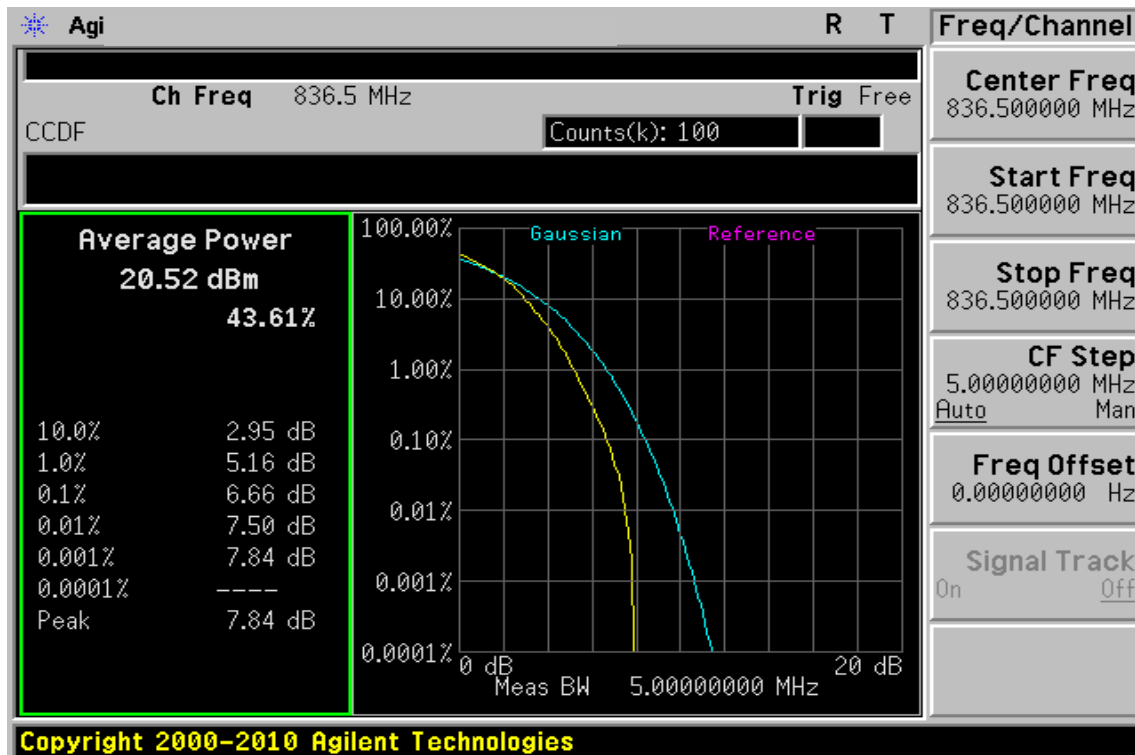


Figure 13-44: 5MHz BW LTE-Band 26(16QAM Number: 25 Offset: 0) Channel Mid



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Figure 13-45: 5MHz BW LTE-Band 26(16QAM Number: 25 Offset: 0) Channel High

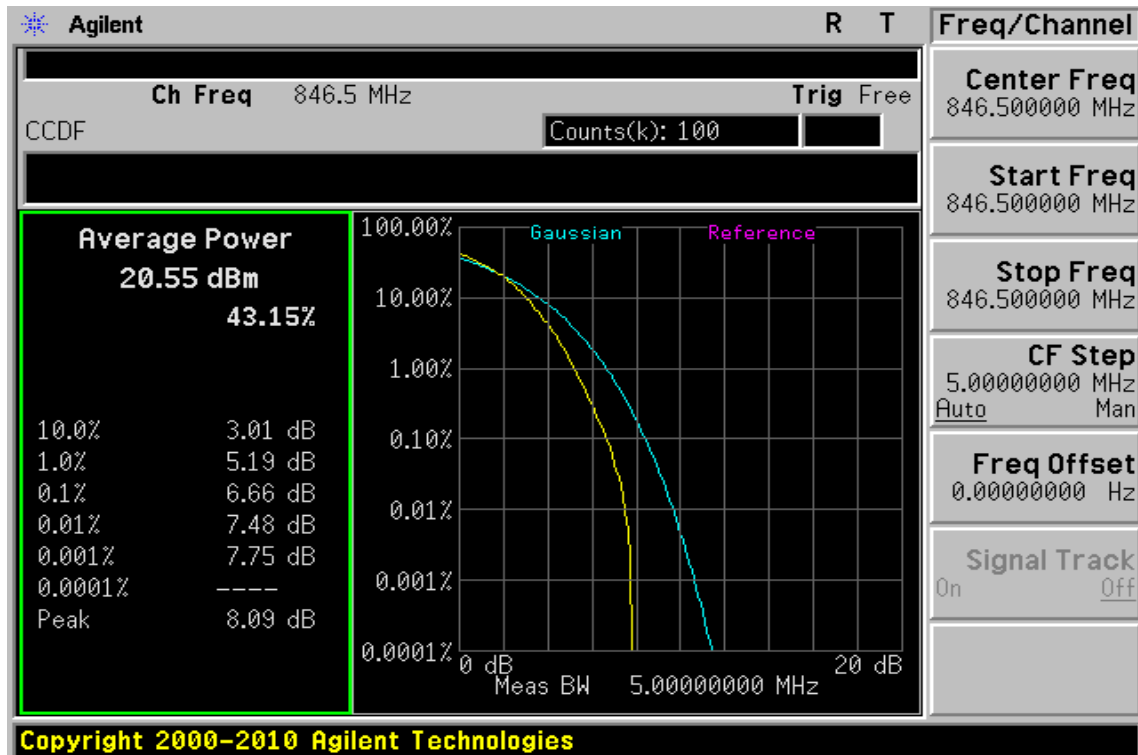
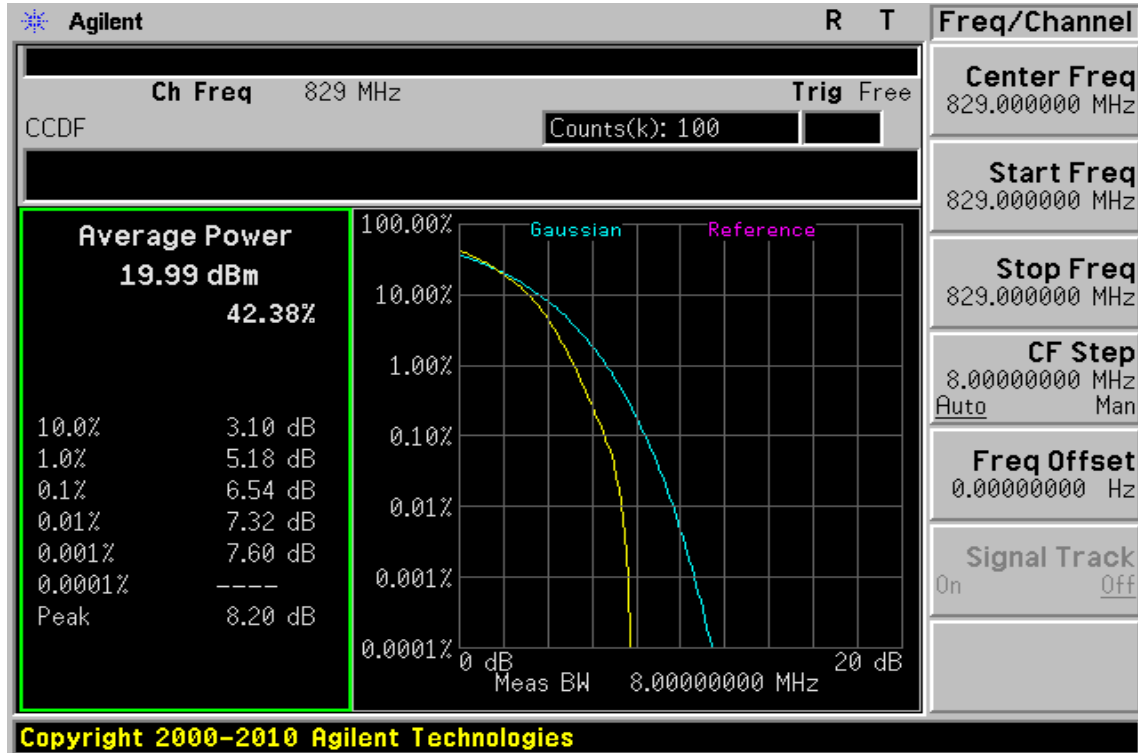


Figure 13-46: 10MHz BW LTE-Band 26(16QAM Number: 50 Offset: 0) Channel Low



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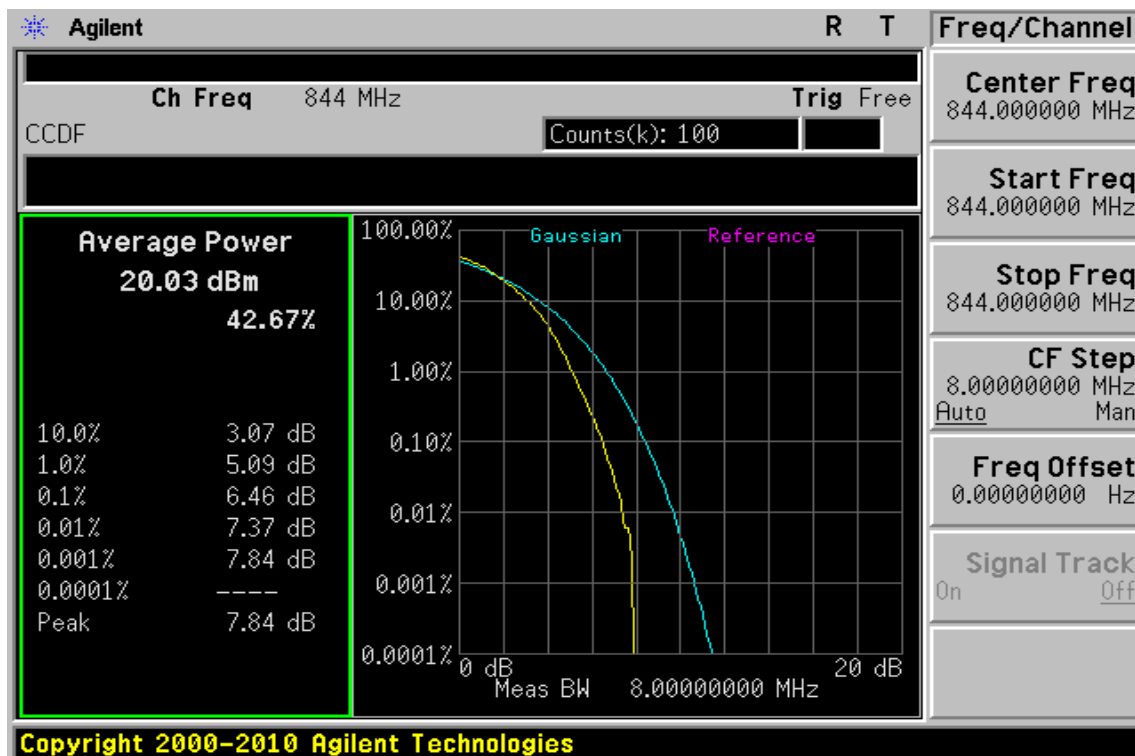
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Figure 13-47: 10MHz BW LTE-Band 26(16QAM Number: 50 Offset: 0) Channel Mid



Figure 13-48: 10MHz BW LTE-Band 26(16QAM Number: 50 Offset: 0) Channel High



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Figure 13-49: 1.4MHz BW LTE-Band 26(16QAM Number: 6 Offset: 0) Channel Low

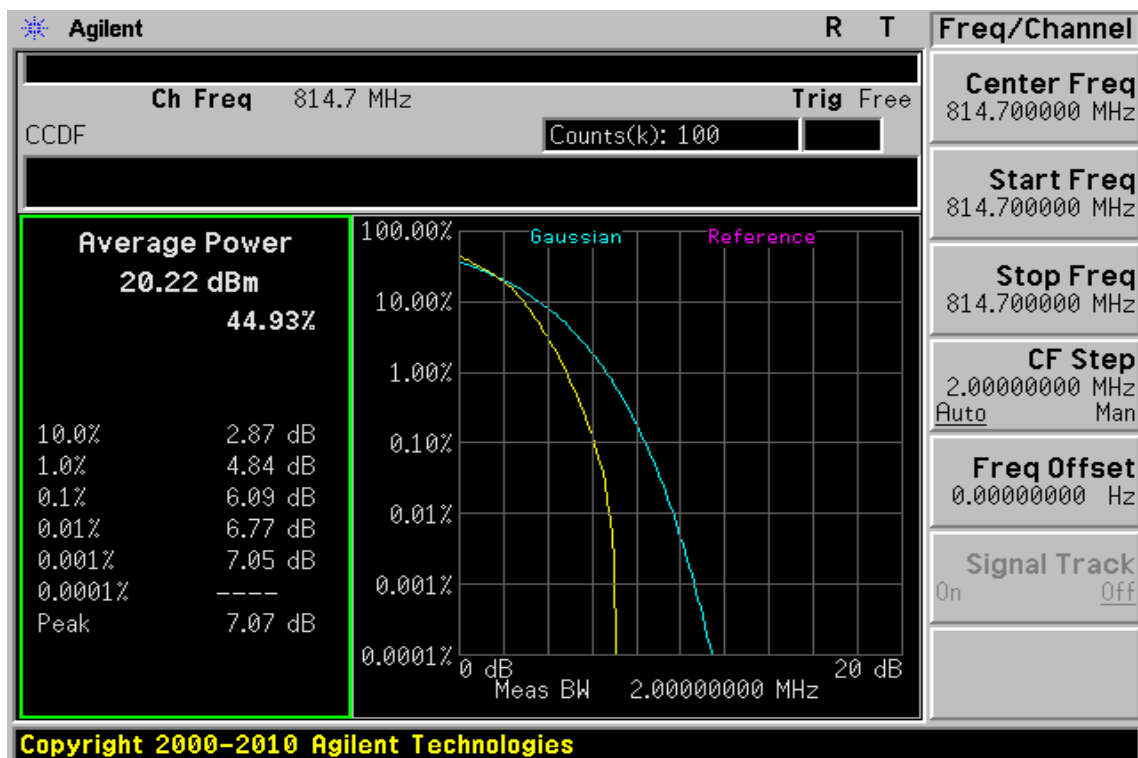
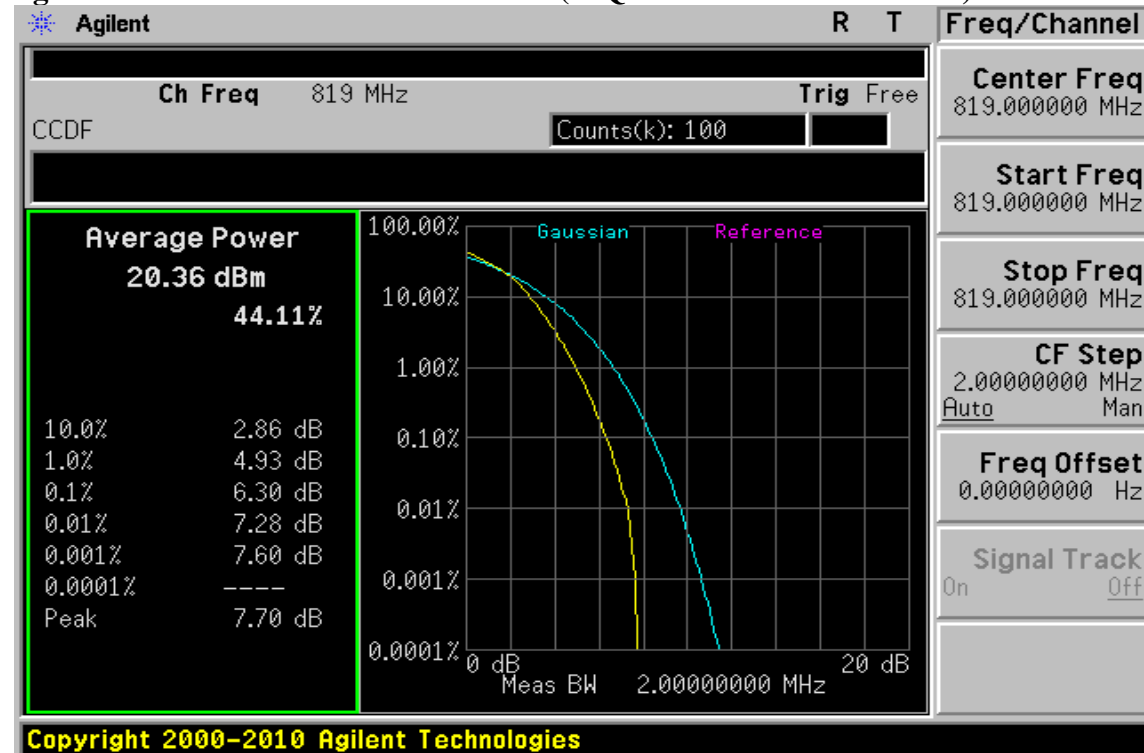


Figure 13-50: 1.4MHz BW LTE-Band 26(16QAM Number: 6 Offset: 0) Channel Mid



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Figure 13-51: 1.4MHz BW LTE-Band 26(16QAM Number: 6 Offset: 0) Channel High

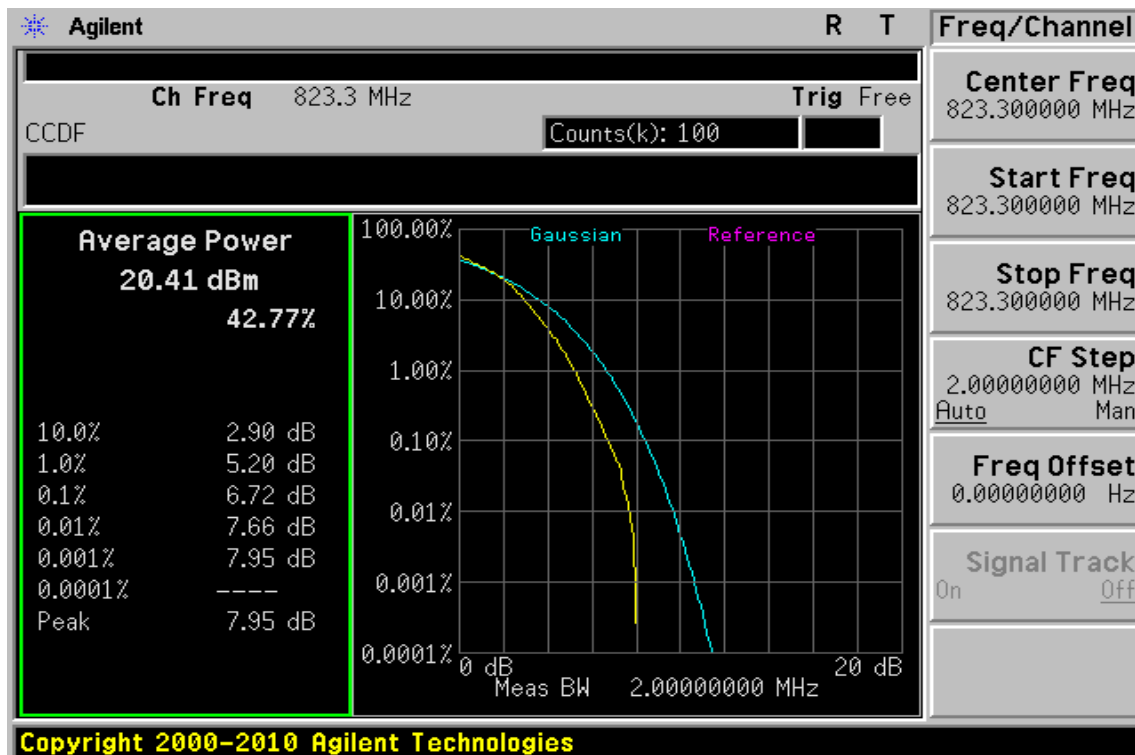
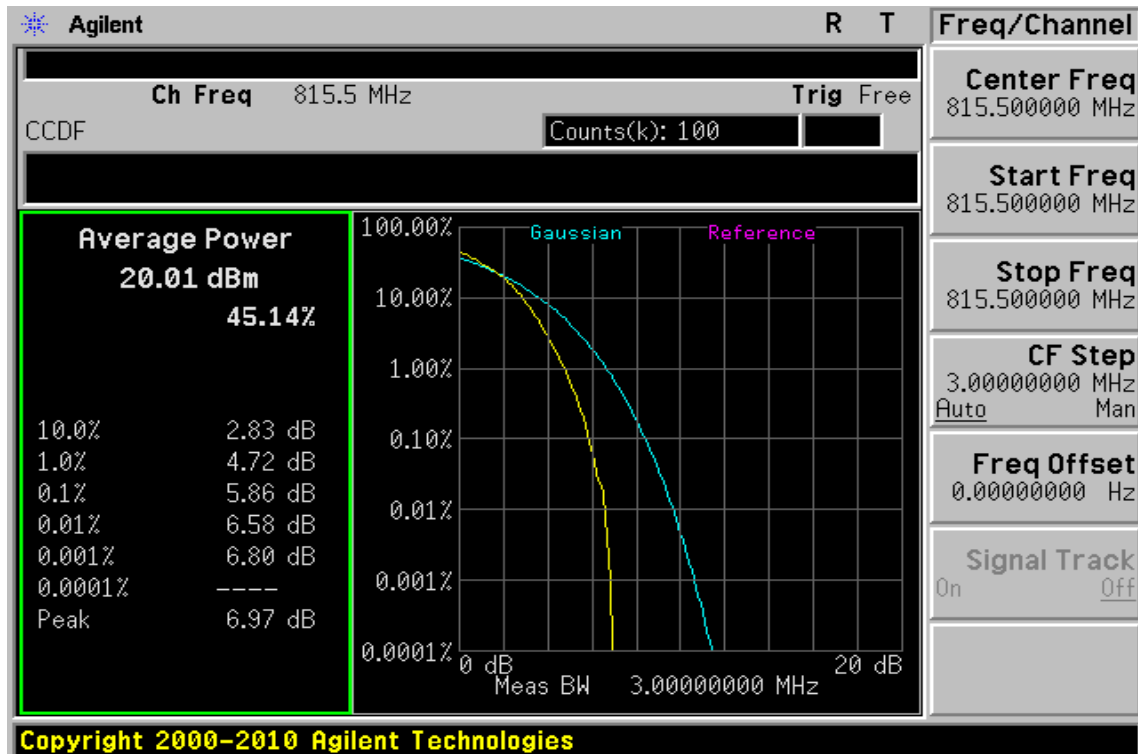


Figure 13-52: 3MHz BW LTE-Band 26(16QAM Number: 15 Offset: 0) Channel Low



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Figure 13-53: 3MHz BW LTE-Band 26(16QAM Number: 15 Offset: 0) Channel Mid

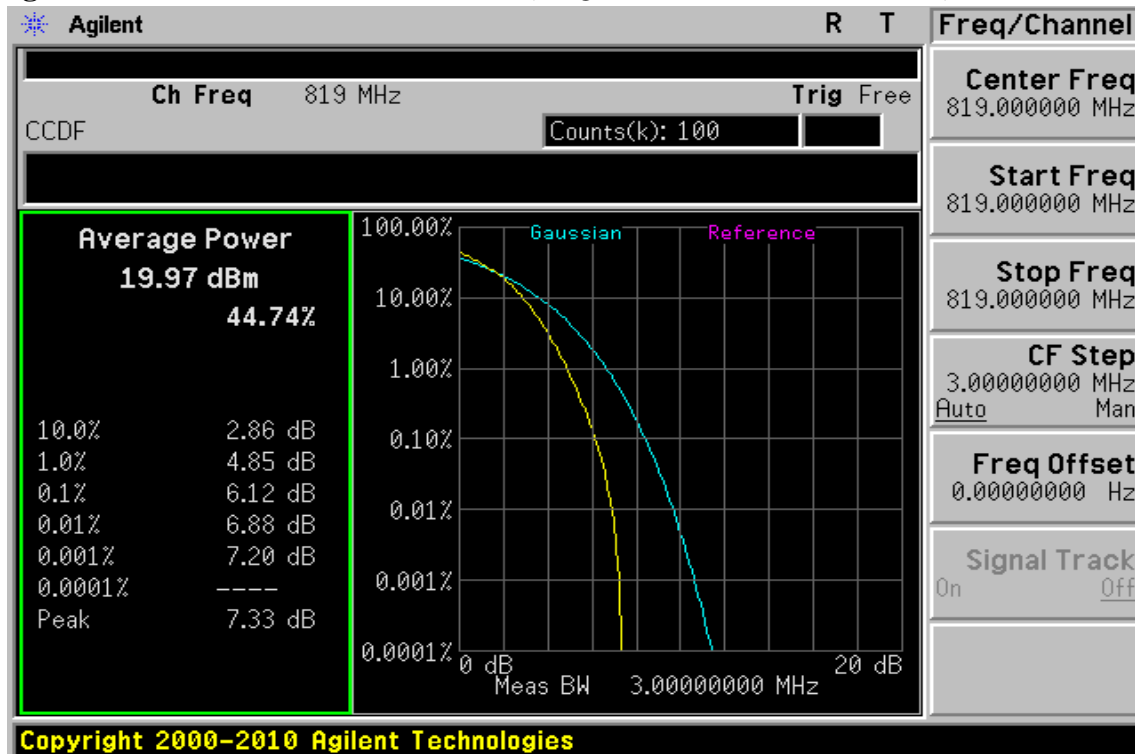
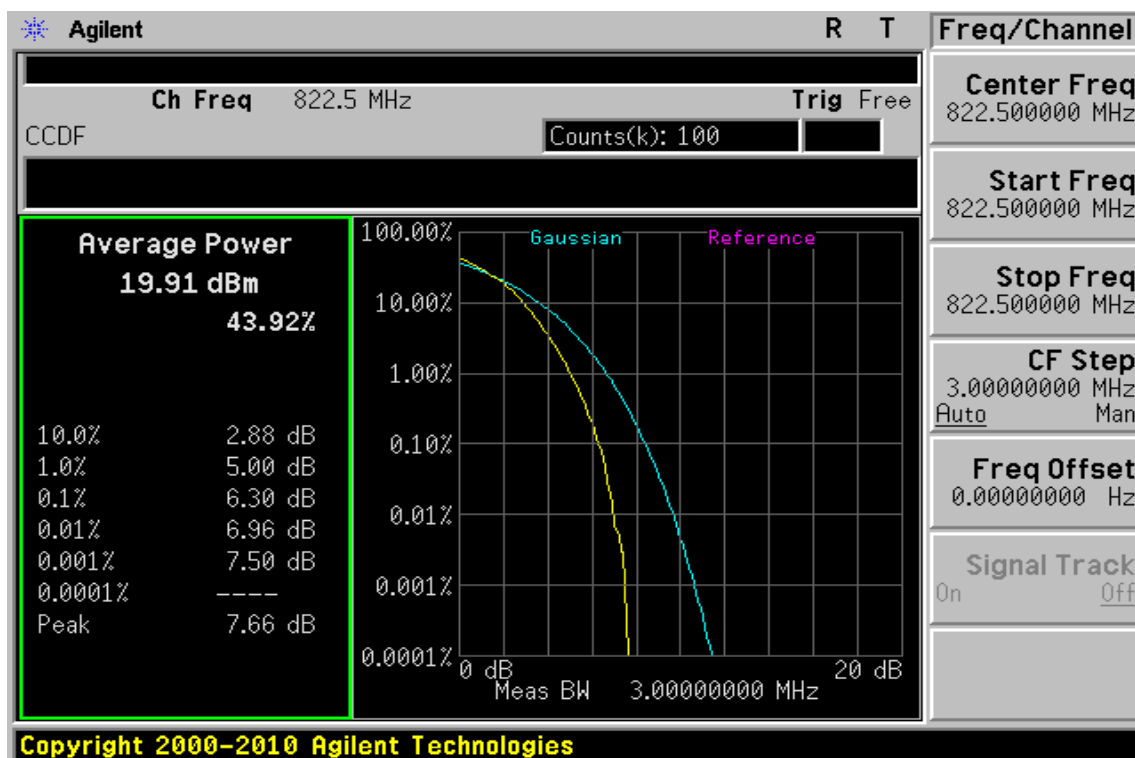


Figure 13-54: 3MHz BW LTE-Band 26(16QAM Number: 15 Offset: 0) Channel High



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Figure 13-55: 5MHz BW LTE-Band 26(16QAM Number: 25 Offset: 0) Channel Low

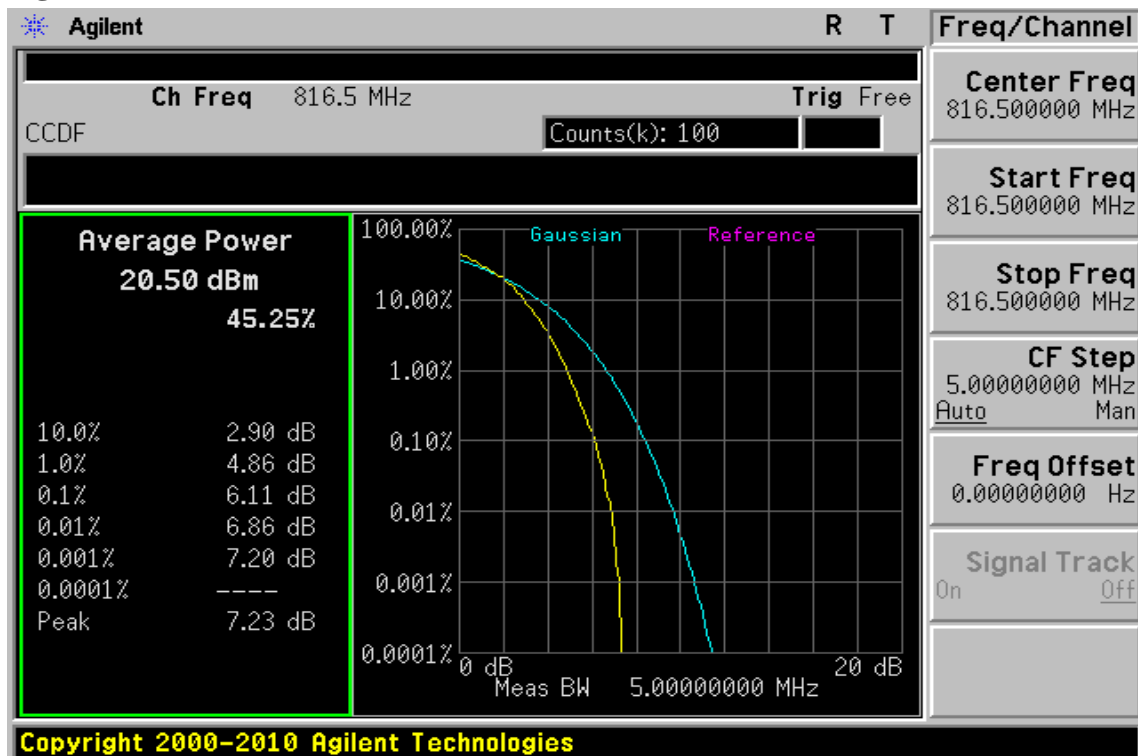
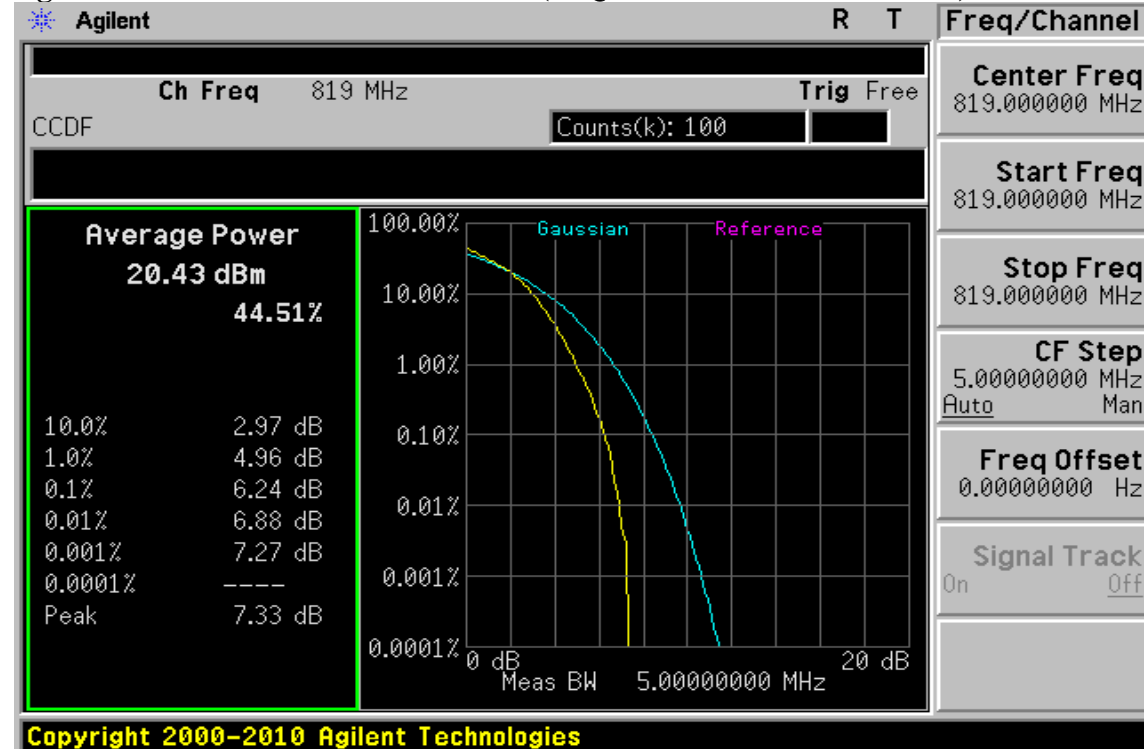


Figure 13-56: 5MHz BW LTE-Band 26(16QAM Number: 25 Offset: 0) Channel Mid



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Figure 13-57: 5MHz BW LTE-Band 26(16QAM Number: 25 Offset: 0) Channel High

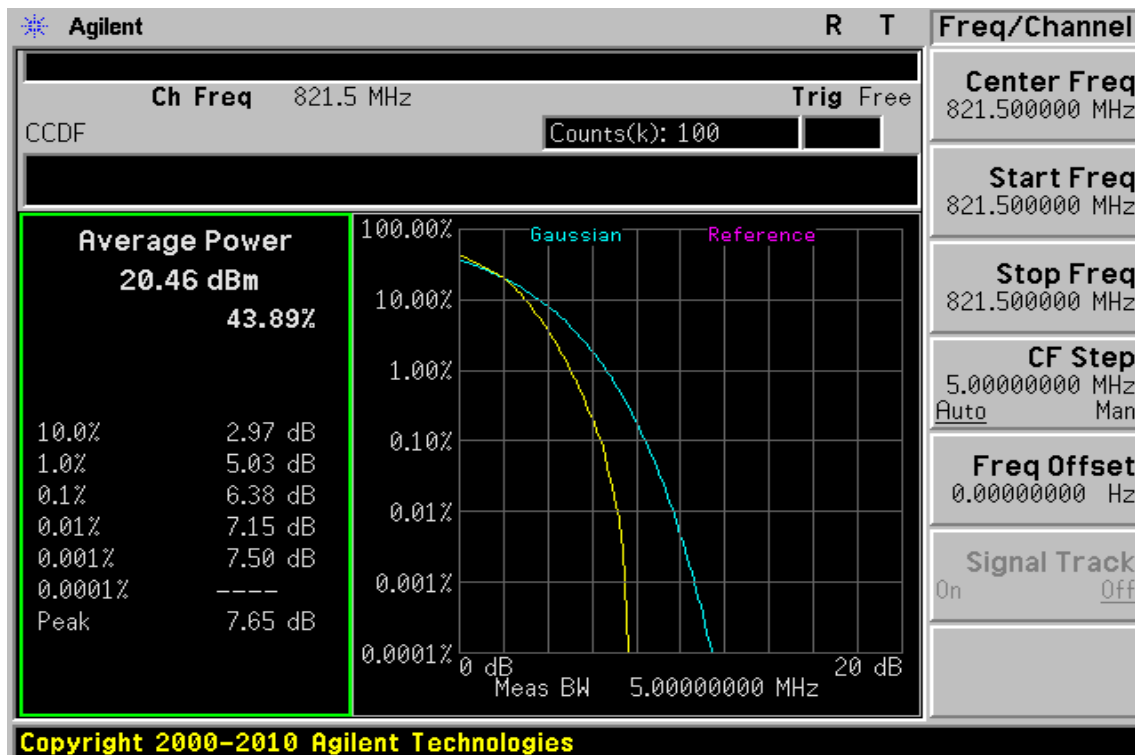
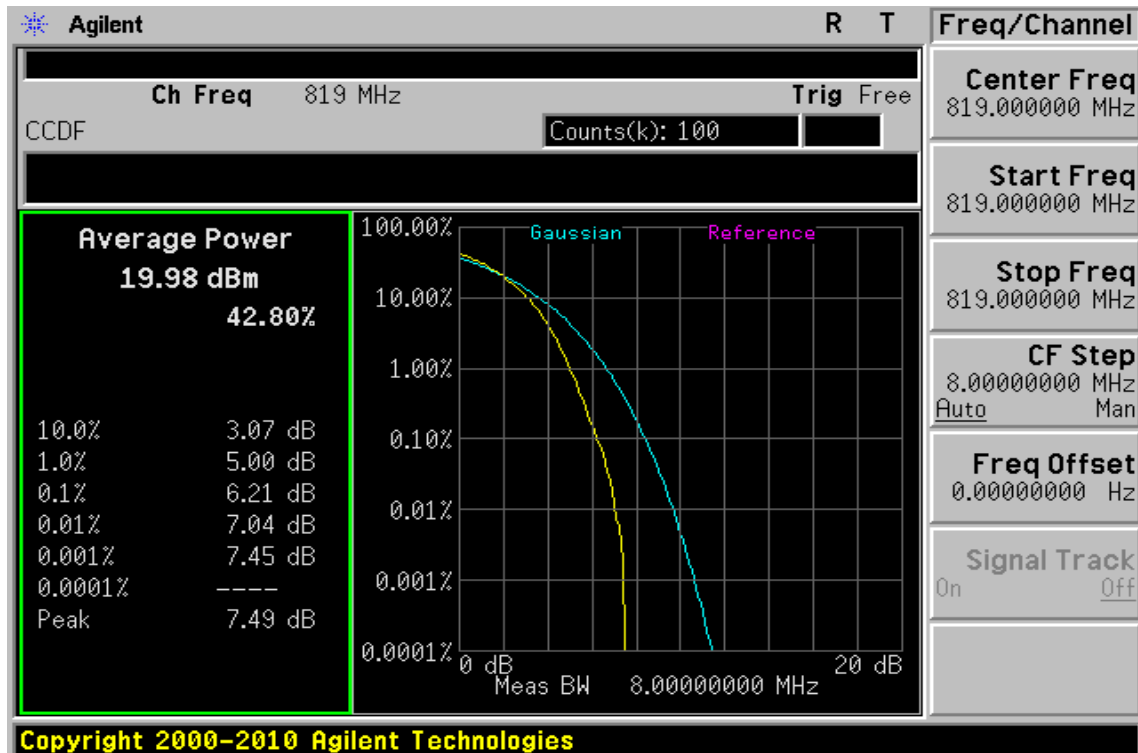


Figure 13-58: 10MHz BW LTE-Band 26(16QAM Number: 50 Offset: 0) Channel Mid



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Figure 13-59: 5MHz BW LTE-Band 41(16QAM Number: 25 Offset: 0) Channel Low

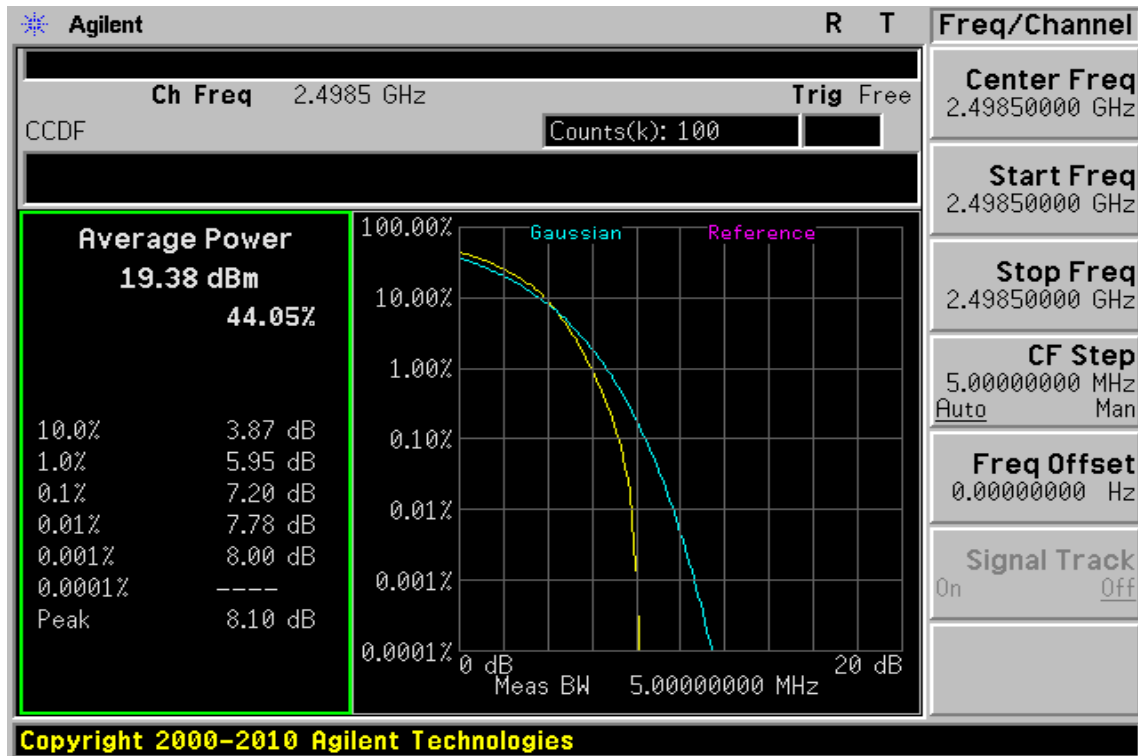
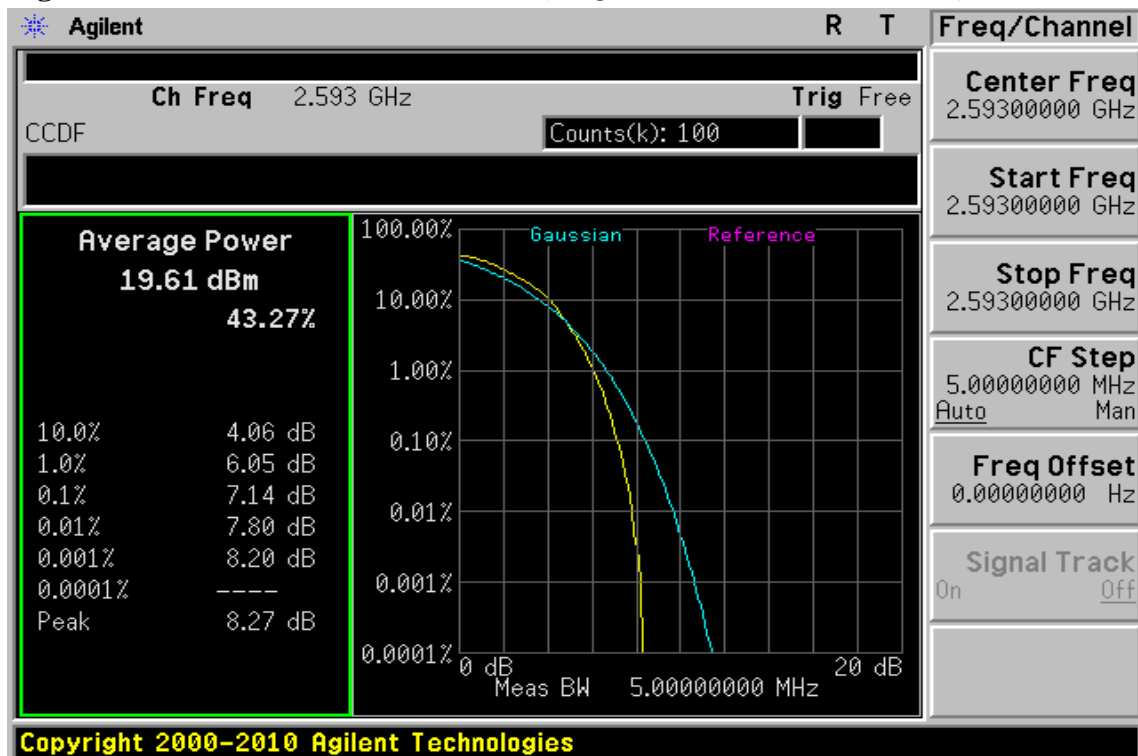


Figure 13-60: 5MHz BW LTE-Band 41(16QAM Number: 25 Offset: 0) Channel Mid



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Figure 13-61: 5MHz BW LTE-Band 41(16QAM Number: 25 Offset: 0)) Channel High

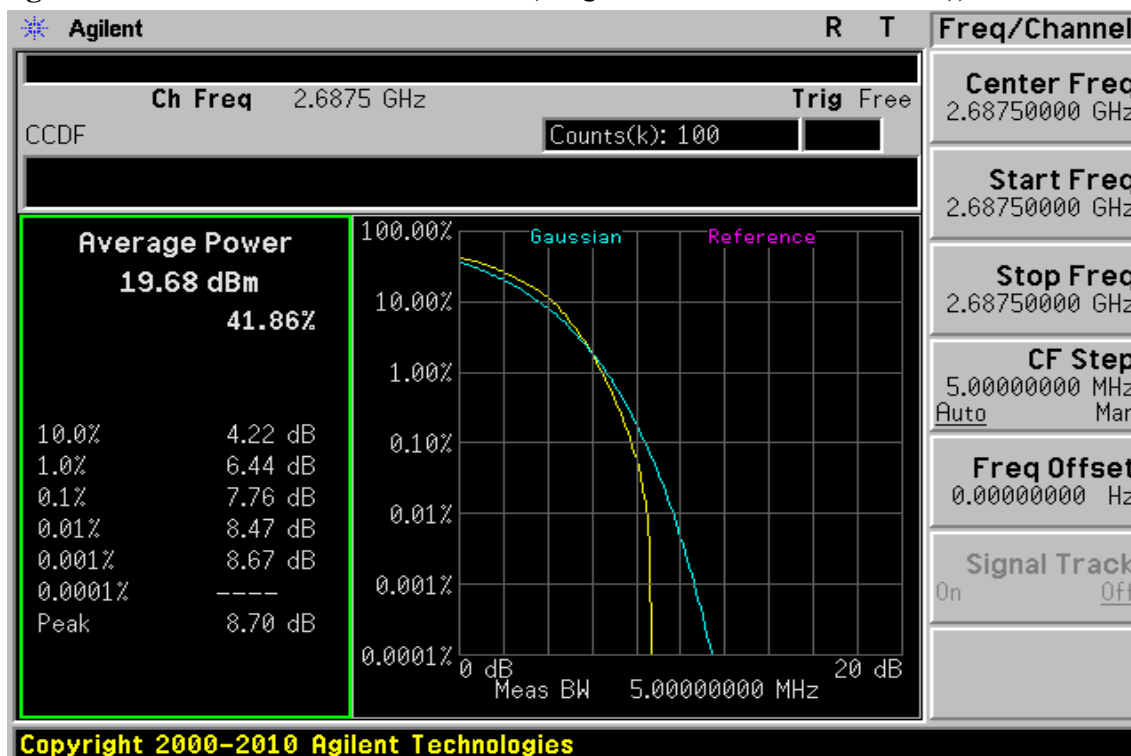
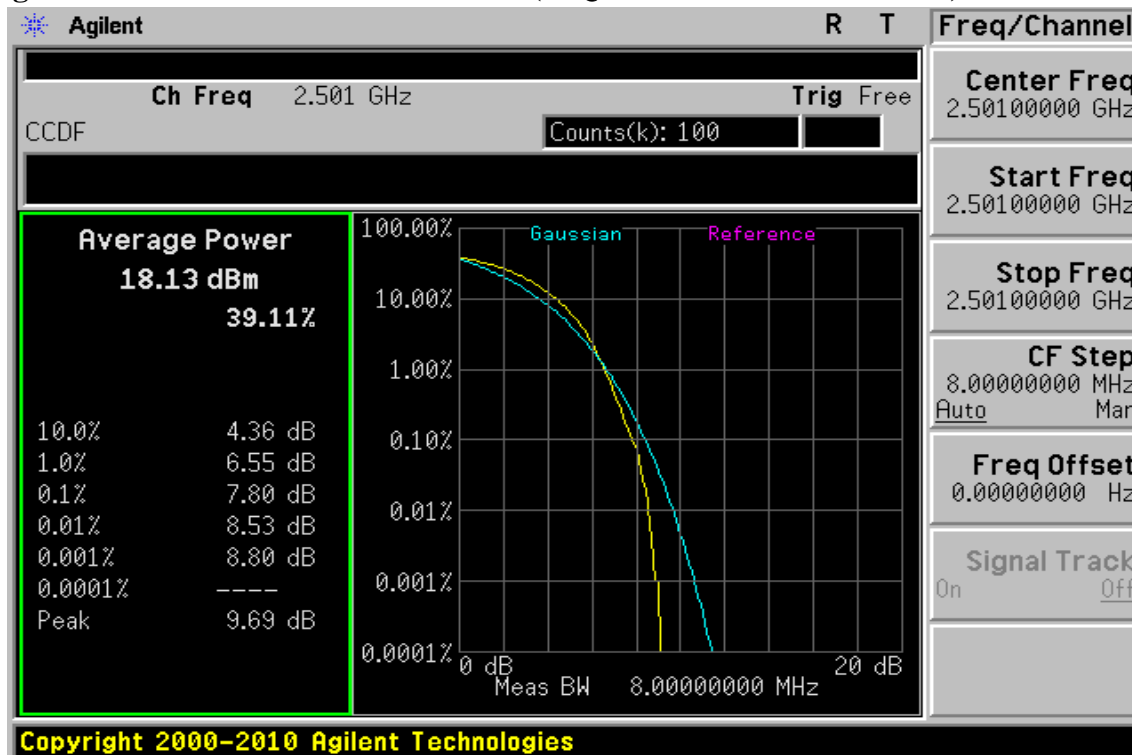


Figure 13-62: 10MHz BW LTE-Band 41(16QAM Number: 50 Offset: 0) Channel Low



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Figure 13-63: 10MHz BW LTE-Band 41(16QAM Number: 50 Offset: 0) Channel Mid

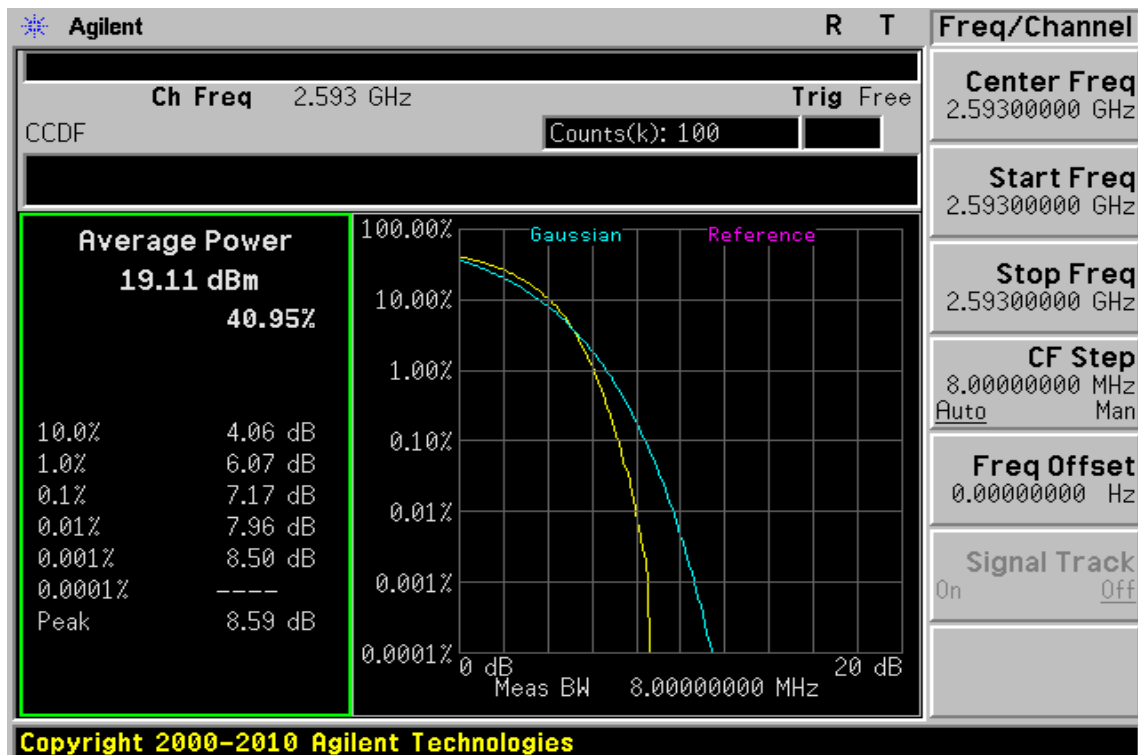
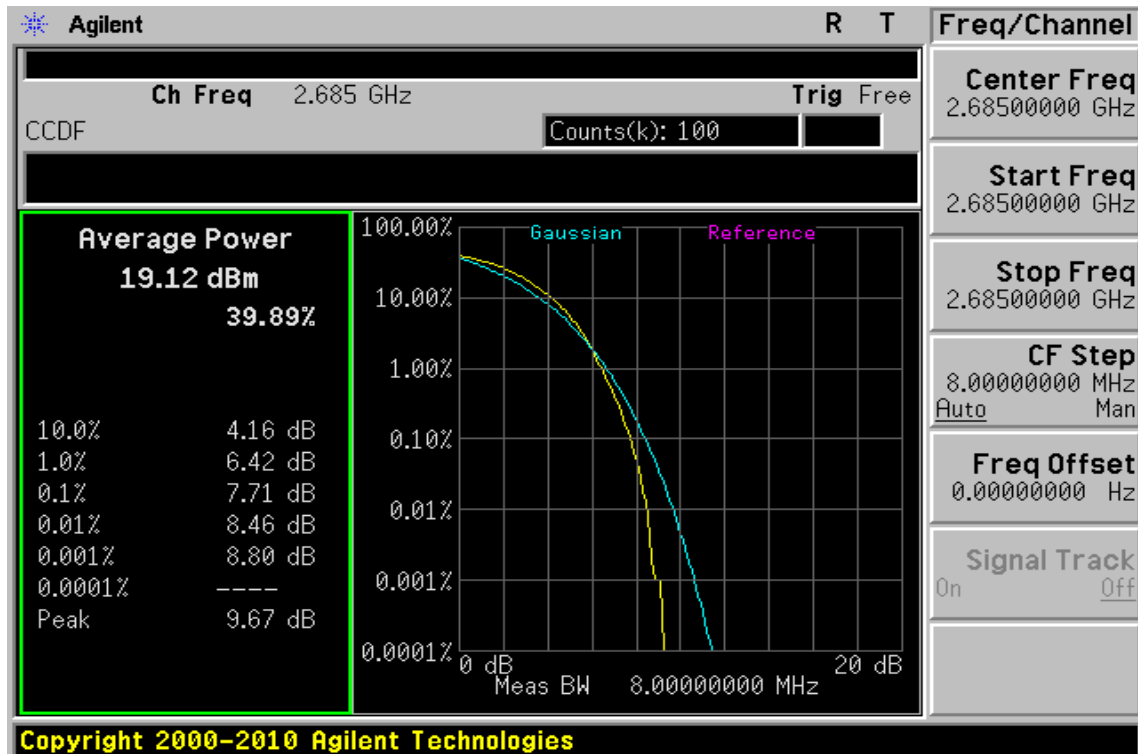


Figure 13-64: 10MHz BW LTE-Band 41(16QAM Number: 50 Offset: 0) Channel High



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Figure 13-65: 15MHz BW LTE-Band 41(16QAM Number: 75 Offset: 0) Channel Low

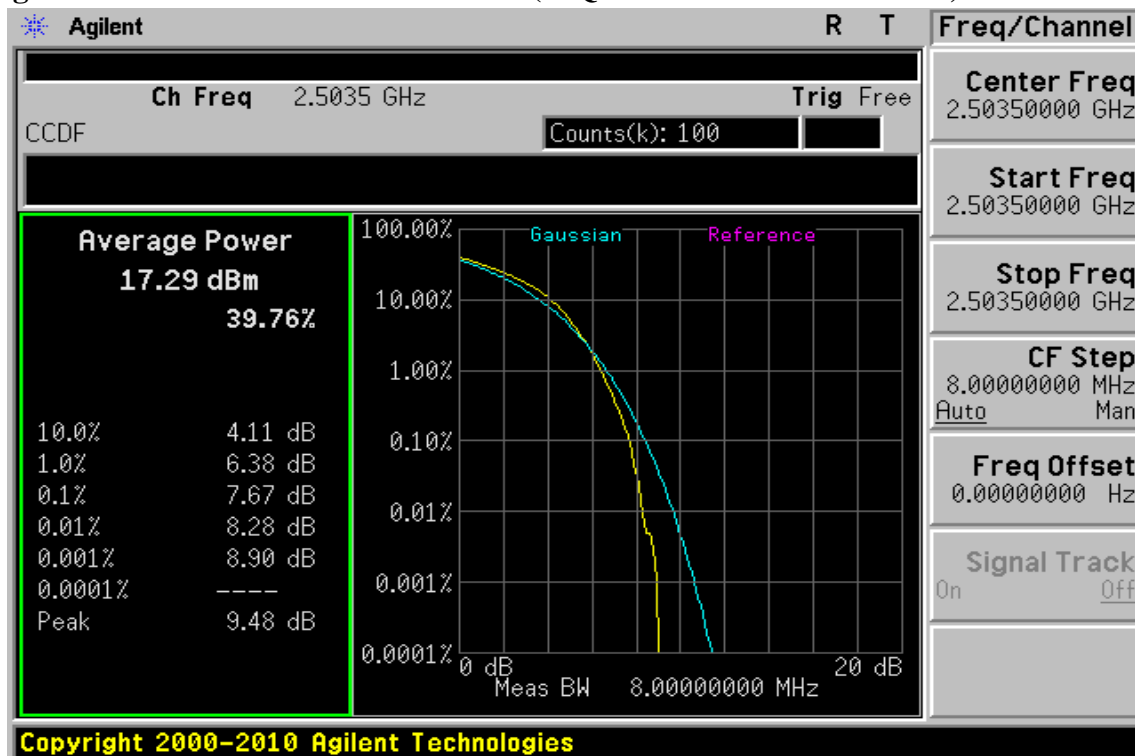
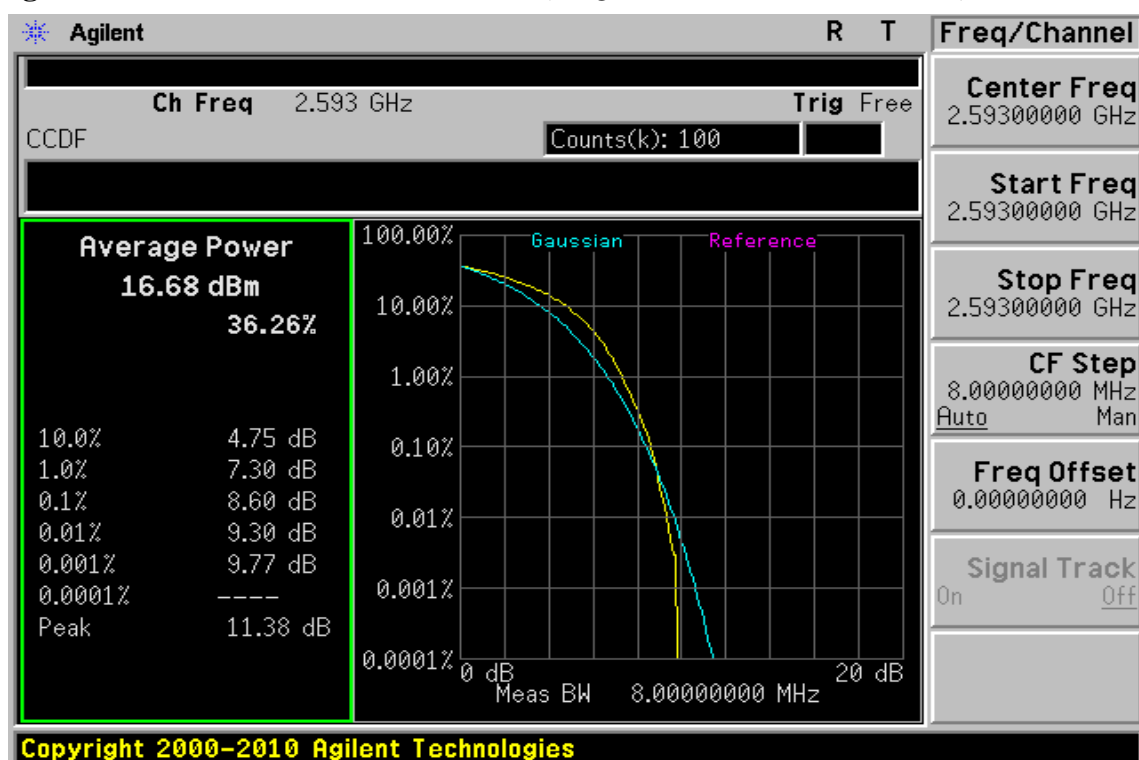


Figure 13-66: 15MHz BW LTE-Band 41(16QAM Number: 75 Offset: 0) Channel Mid



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Figure 13-67: 15MHz BW LTE-Band 41(16QAM Number: 75 Offset: 0) Channel High

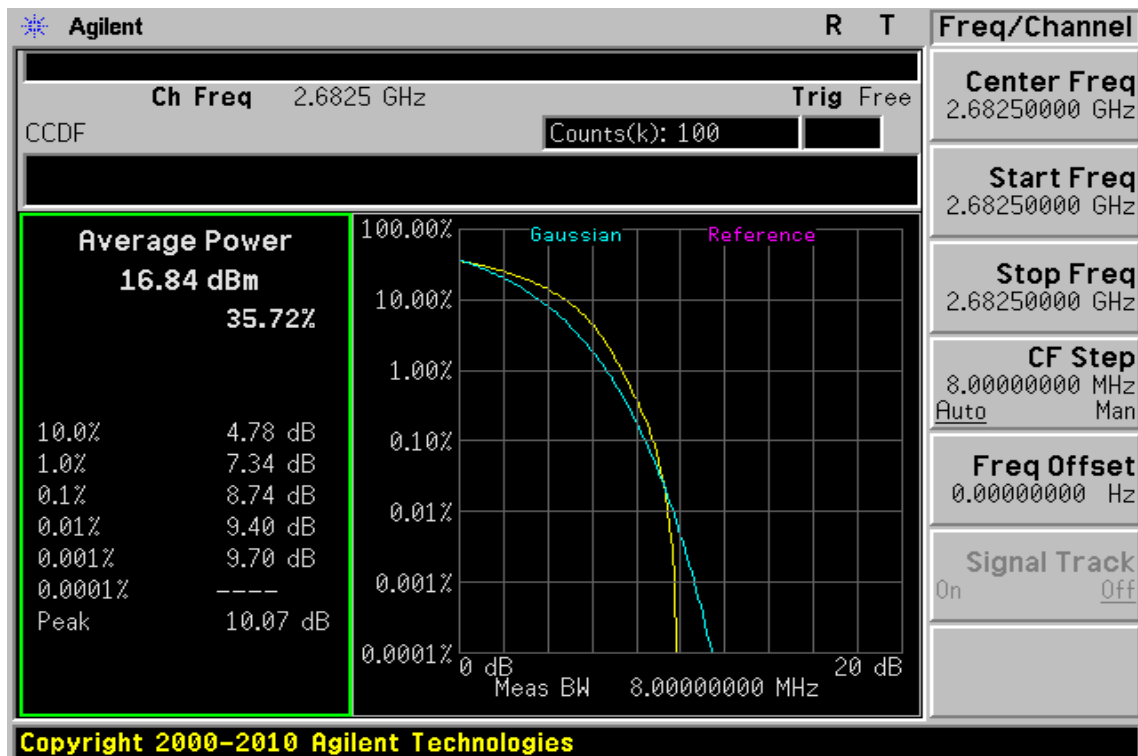
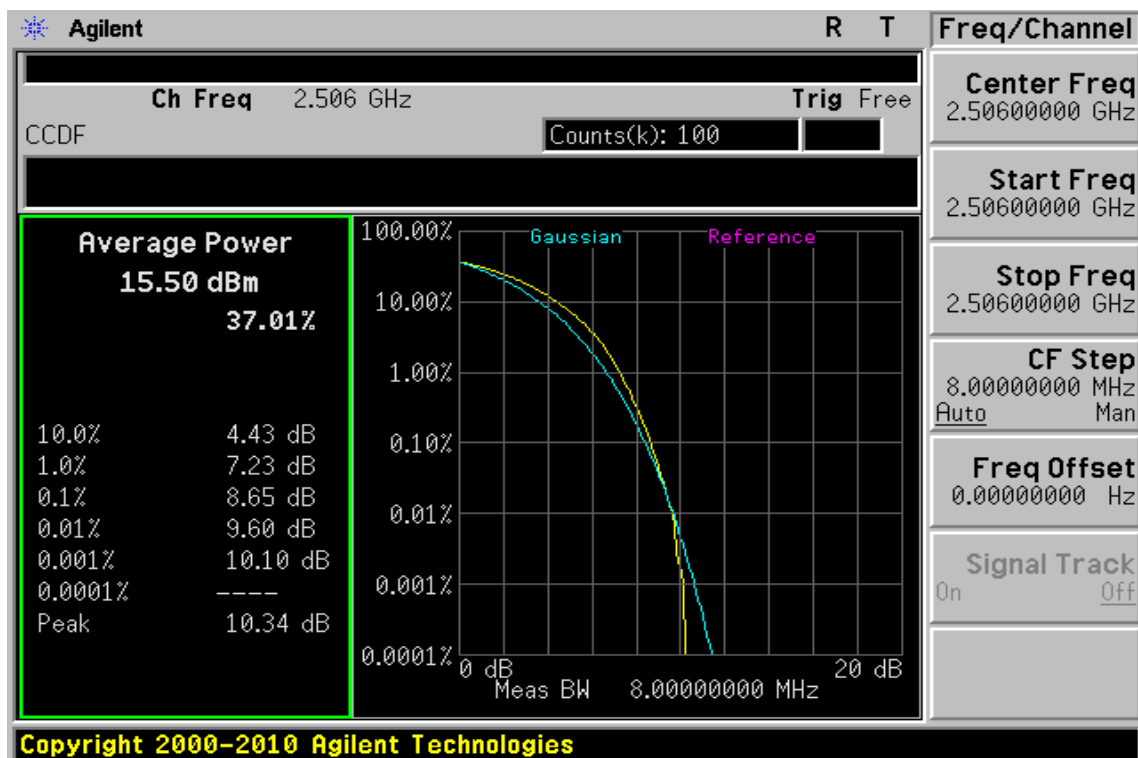


Figure 13-68: 20MHz BW LTE-Band 41(16QAM Number: 100 Offset: 0) Channel Low



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Figure 13-69: 20MHz BW LTE-Band 41(16QAM Number: 100 Offset: 0) Channel Mid

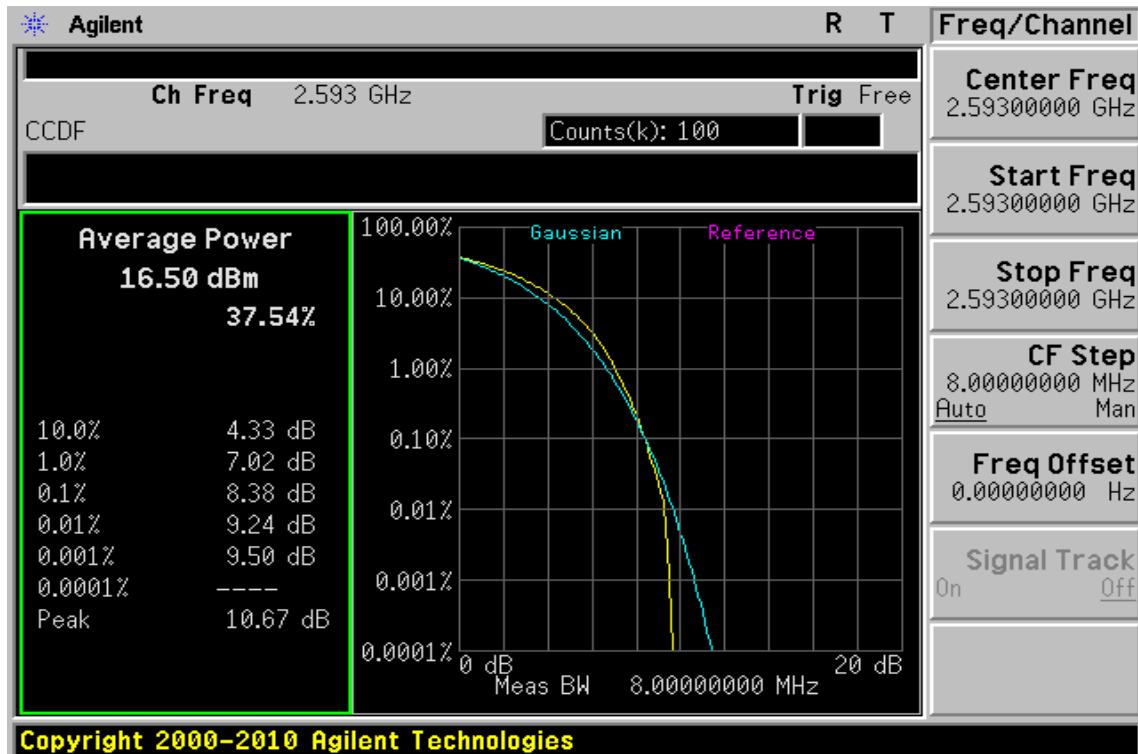
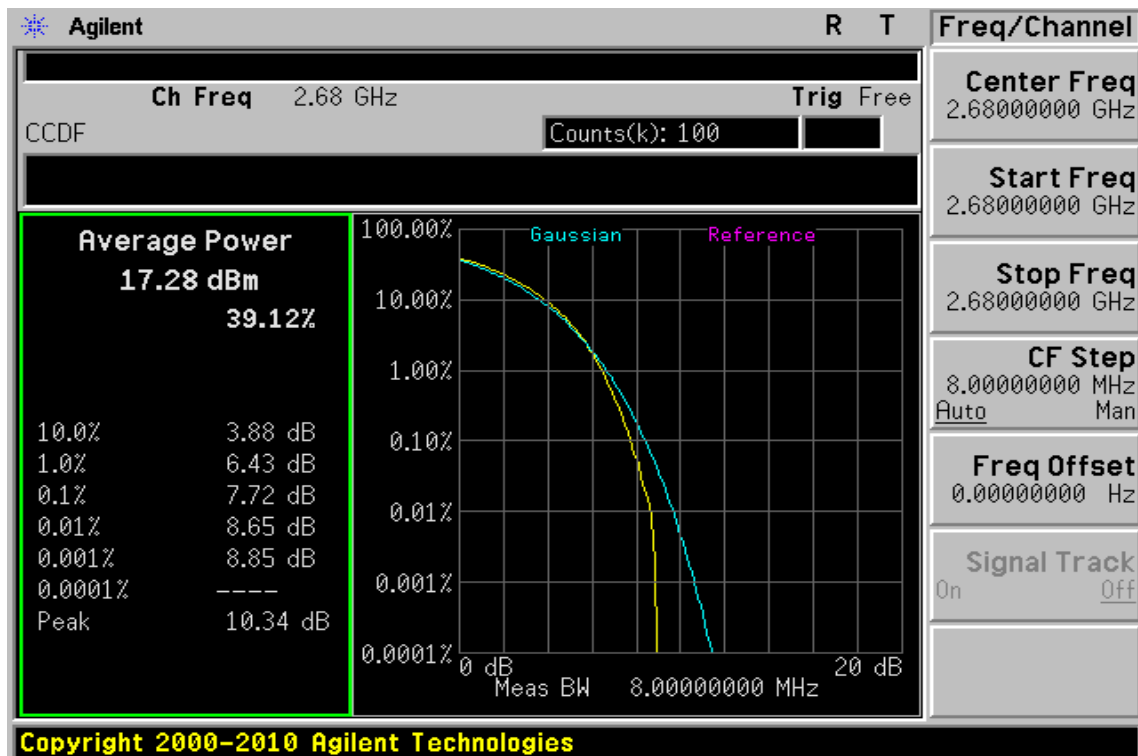


Figure 13-70: 20MHz BW LTE-Band 41(16QAM Number: 100 Offset: 0) Channel High



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14. EMISSION MASK

14.1. Standard Applicable:

FCC: §22.359, §24.238 and § 90.691

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log (P)$ dB.

14.2. Test SET-UP (Block Diagram of Configuration):

Refer to section 2.4 in this report

14.3. Measurement Procedure:

Reference to KDB 971168 D01 v02r01

The transmitter output was connected to an Anrisu C8920C Test Set and configured to operate at maximum power. The band edge emissions were measured at the required operating frequencies in each band on the Spectrum Analyzer.

For each band edge measurement:

- Set the spectrum analyzer span to include the block edge frequency (824, 849, 1850, 1910 and 1915MHz)
- Set a marker to point the corresponding band edge frequency in each test case.
- Set display line at -13 dBm.
- Set resolution bandwidth to at least 1% of emission bandwidth.

14.4. Measurement Equipment Used:

Refer to section 2.4 in this report

14.5. Measurement Result:

Refer to next page for plot results

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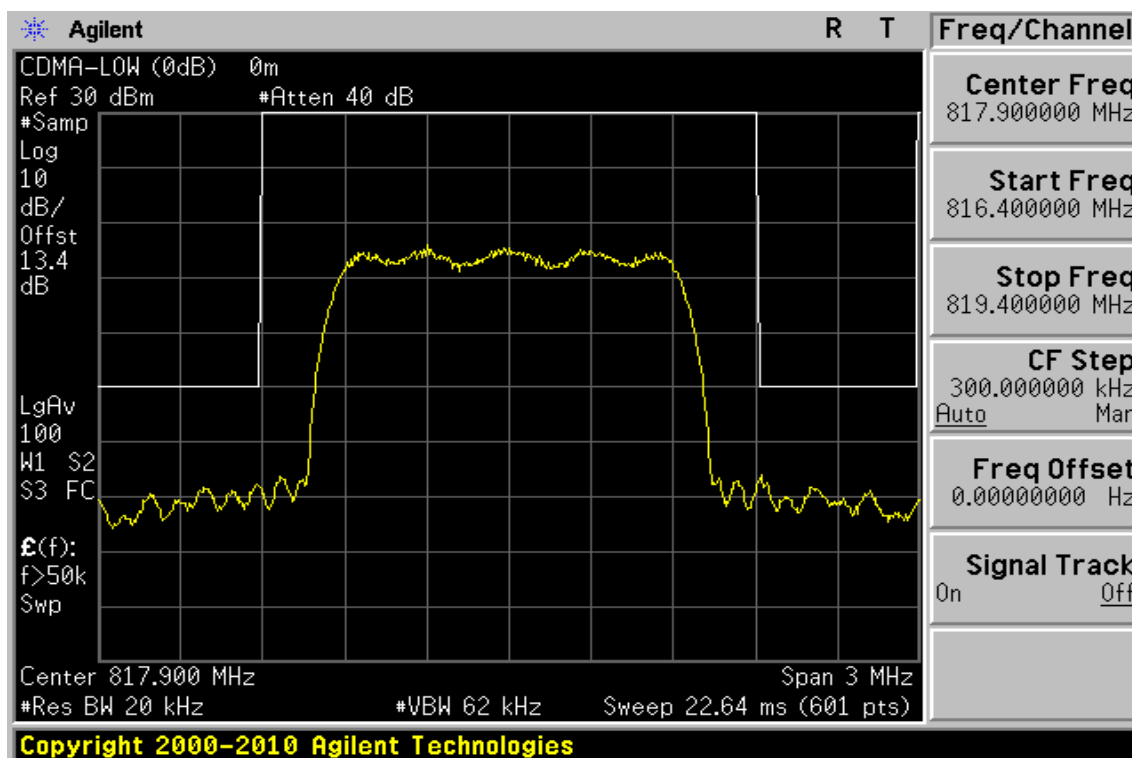
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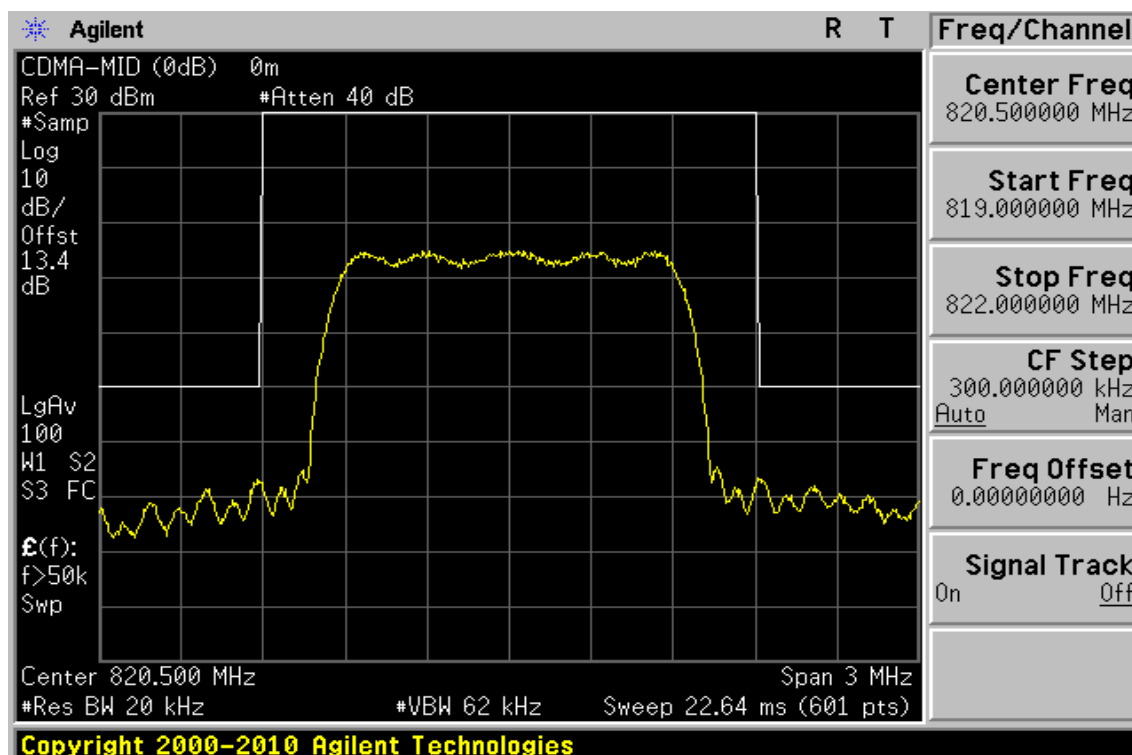
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CDMA2000 BC10

Channel Low



Channel Mid



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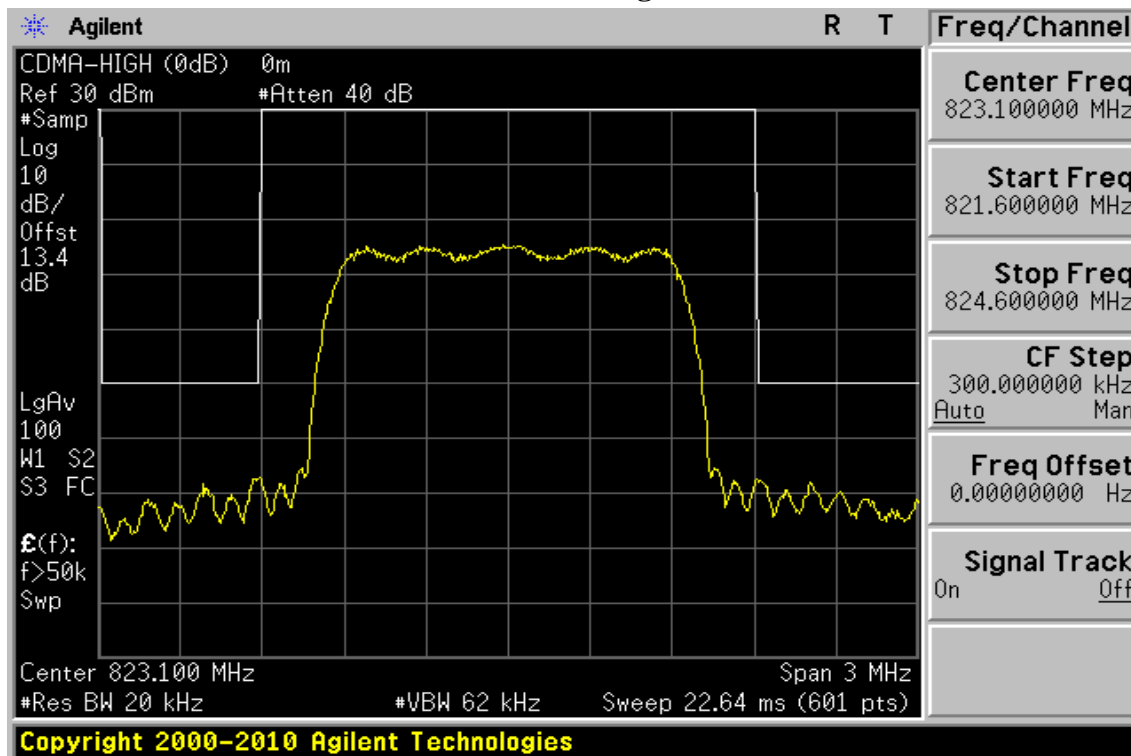
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Channel High



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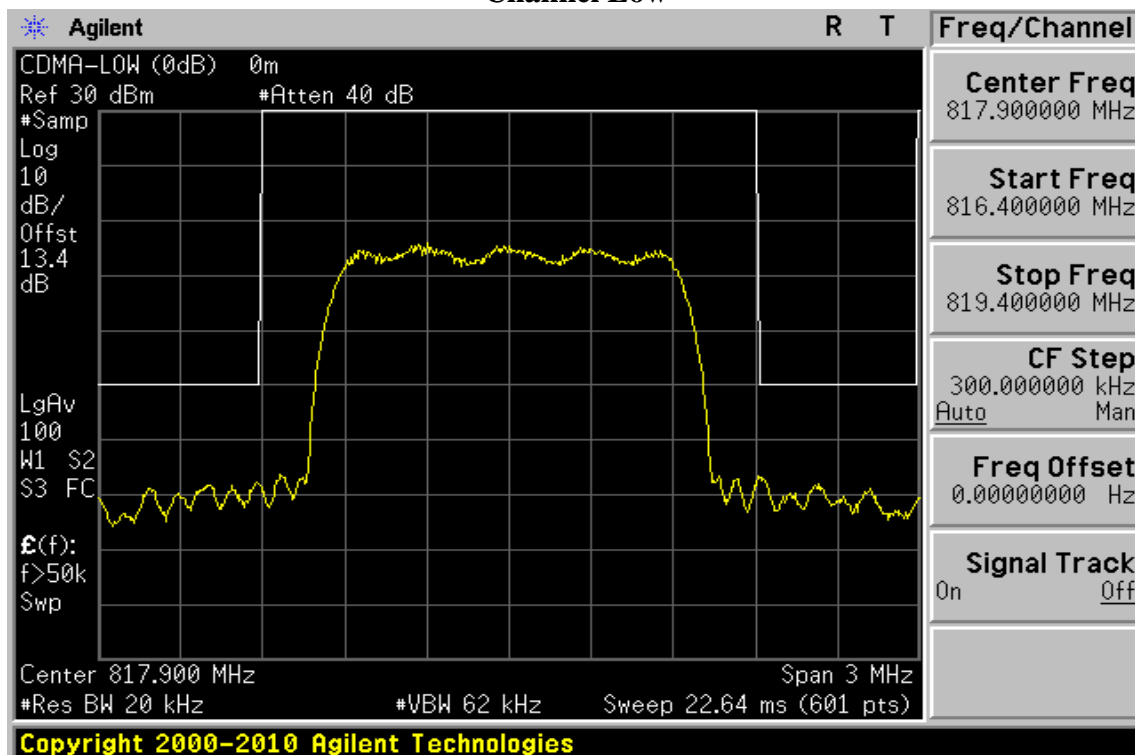
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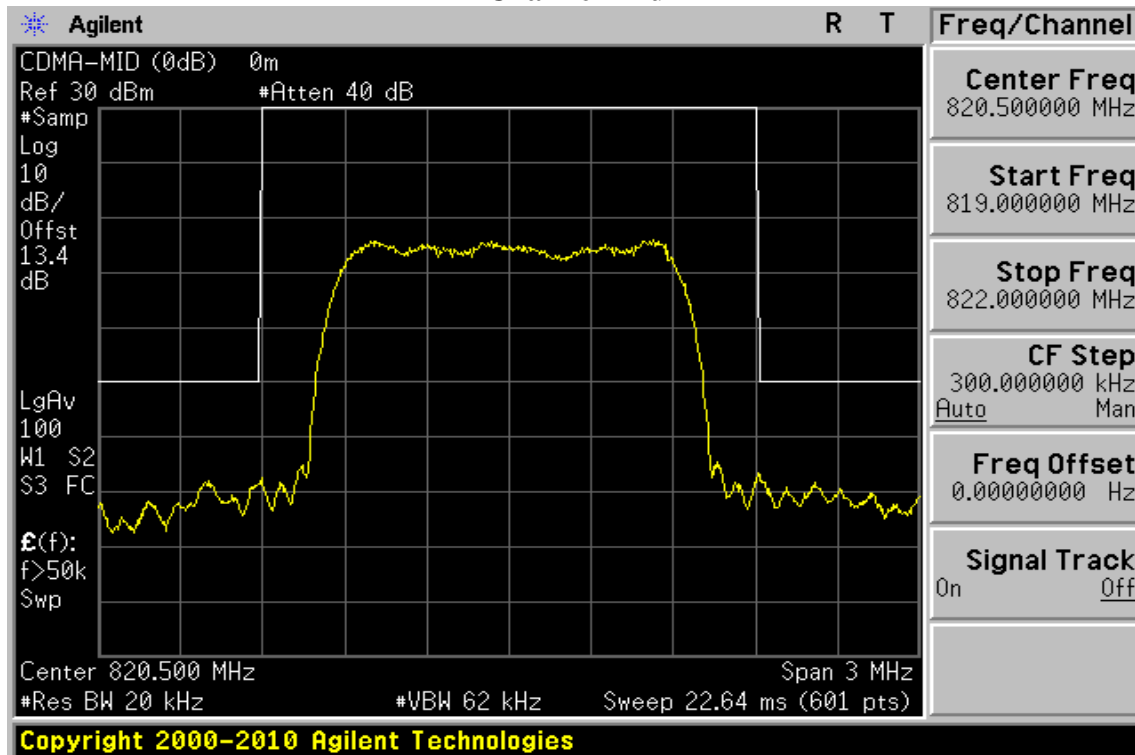
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CDMA2000 EVDO BC10 Channel Low



Channel Mid



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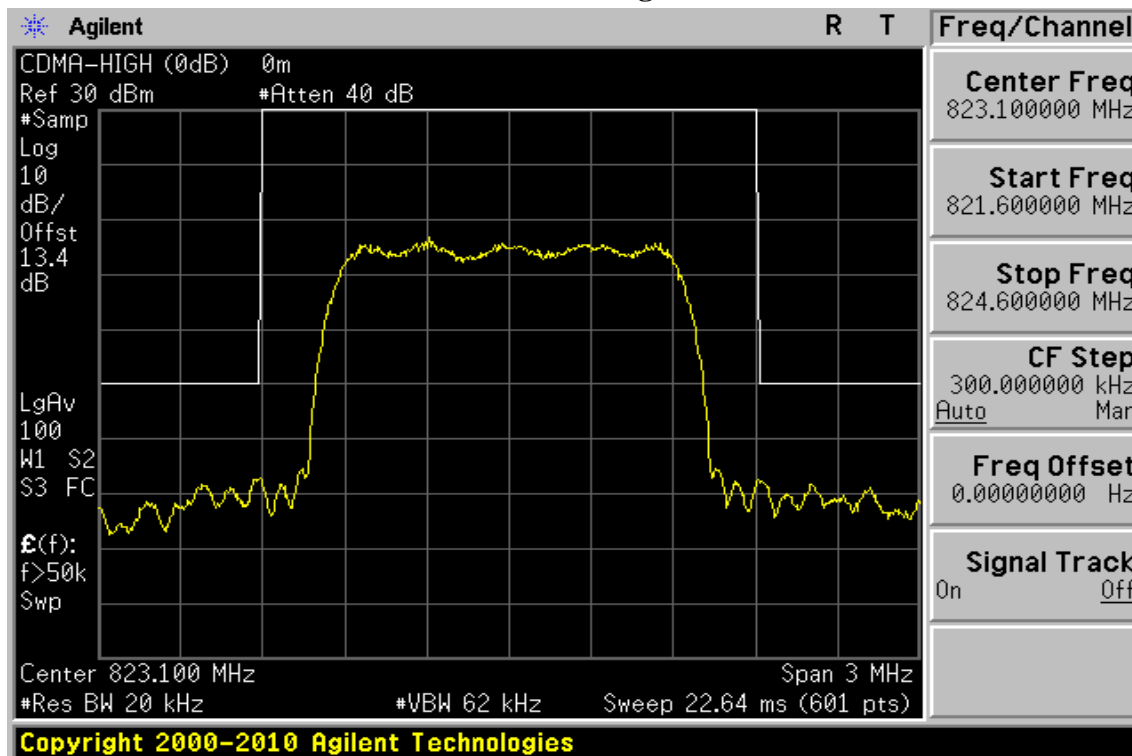
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Channel High



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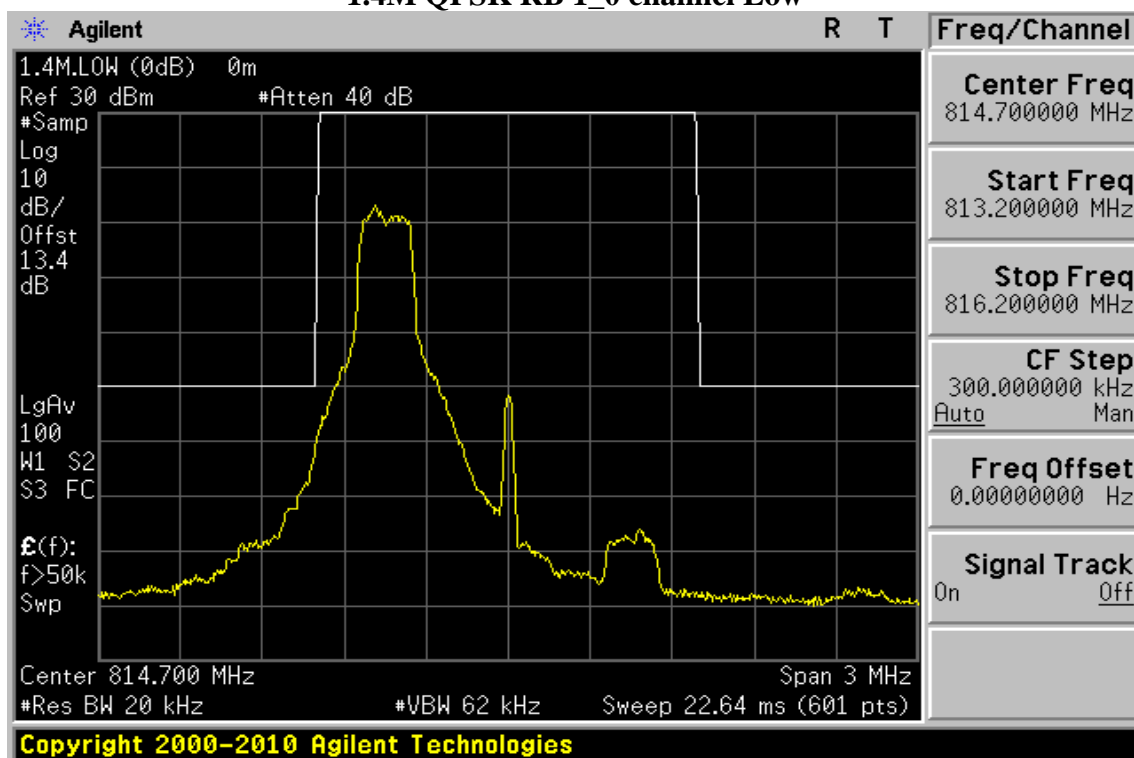
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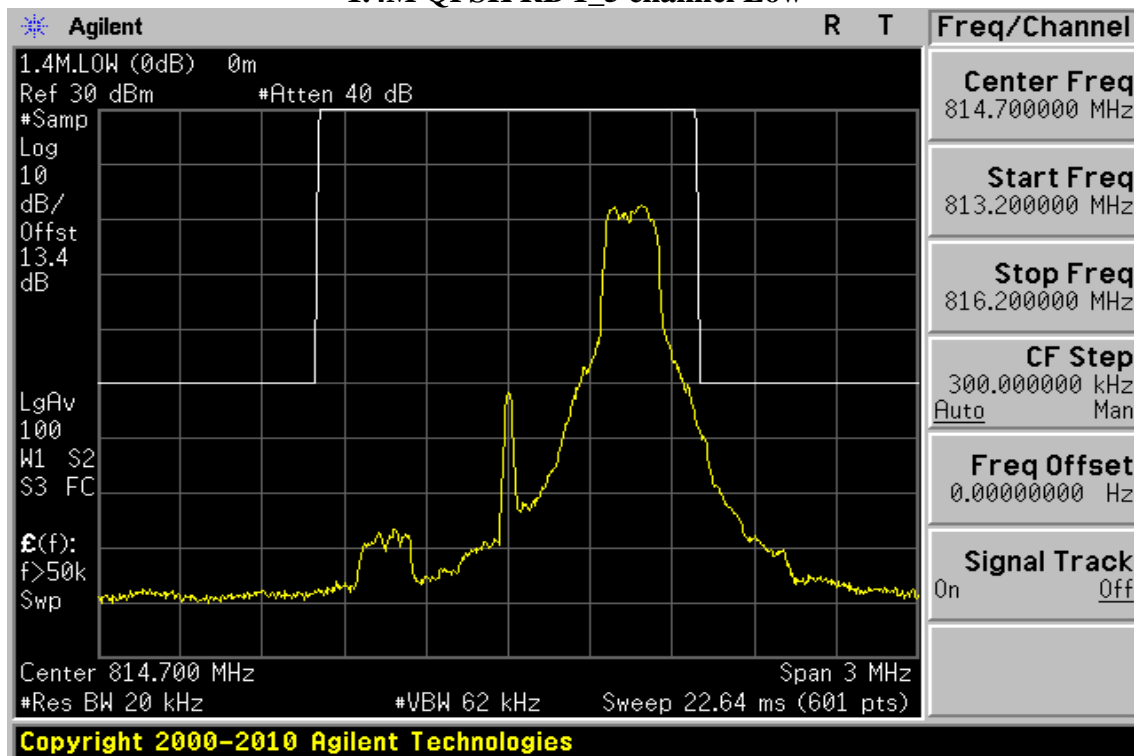
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LTE Band 26

1.4M QPSK RB 1_0 channel Low



1.4M QPSK RB 1_5 channel Low



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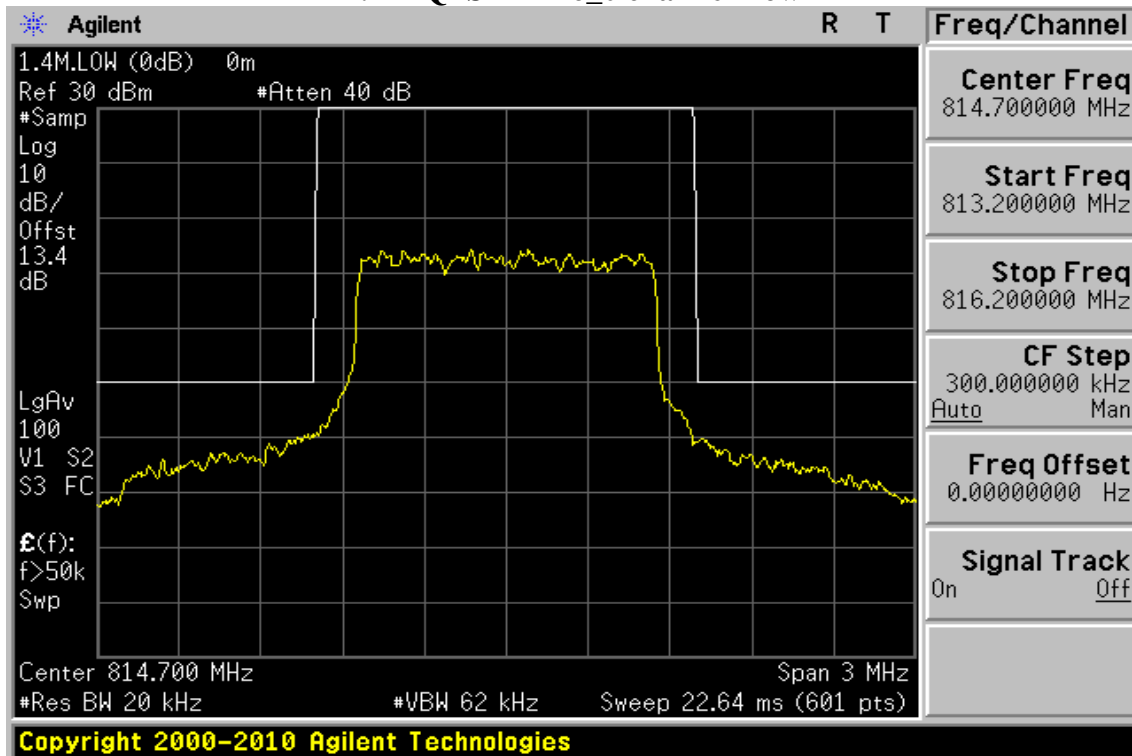
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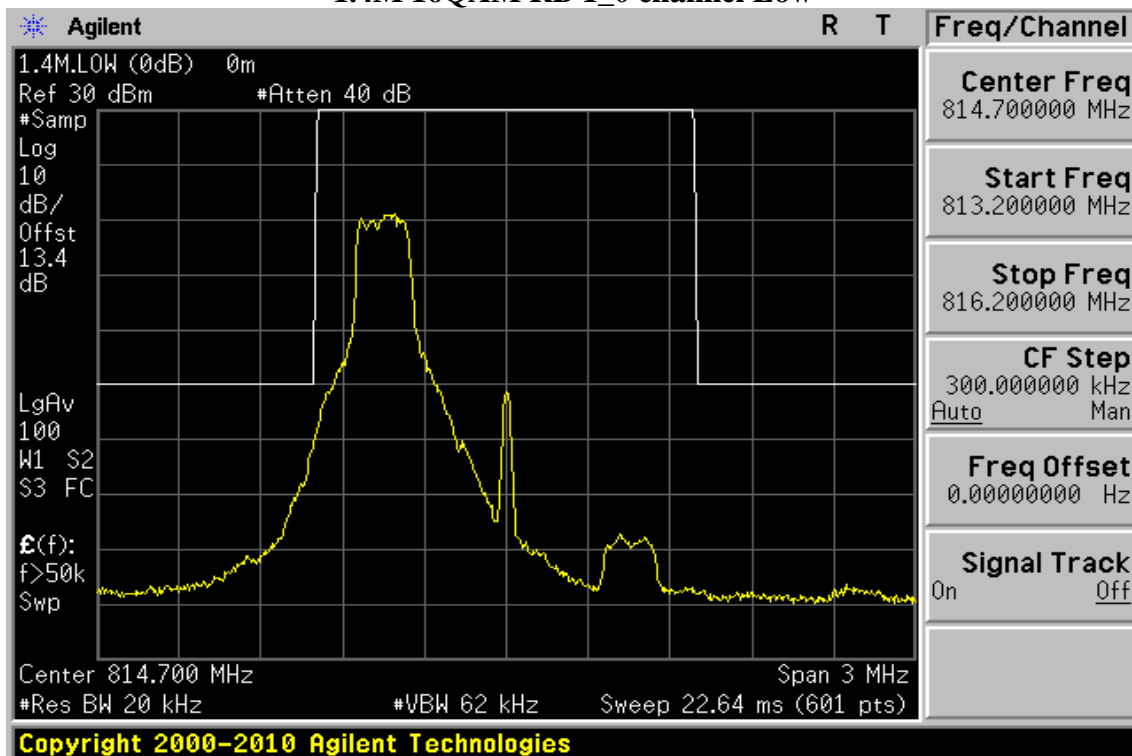
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1.4M QPSK RB 6_0 channel Low



1.4M 16QAM RB 1_0 channel Low



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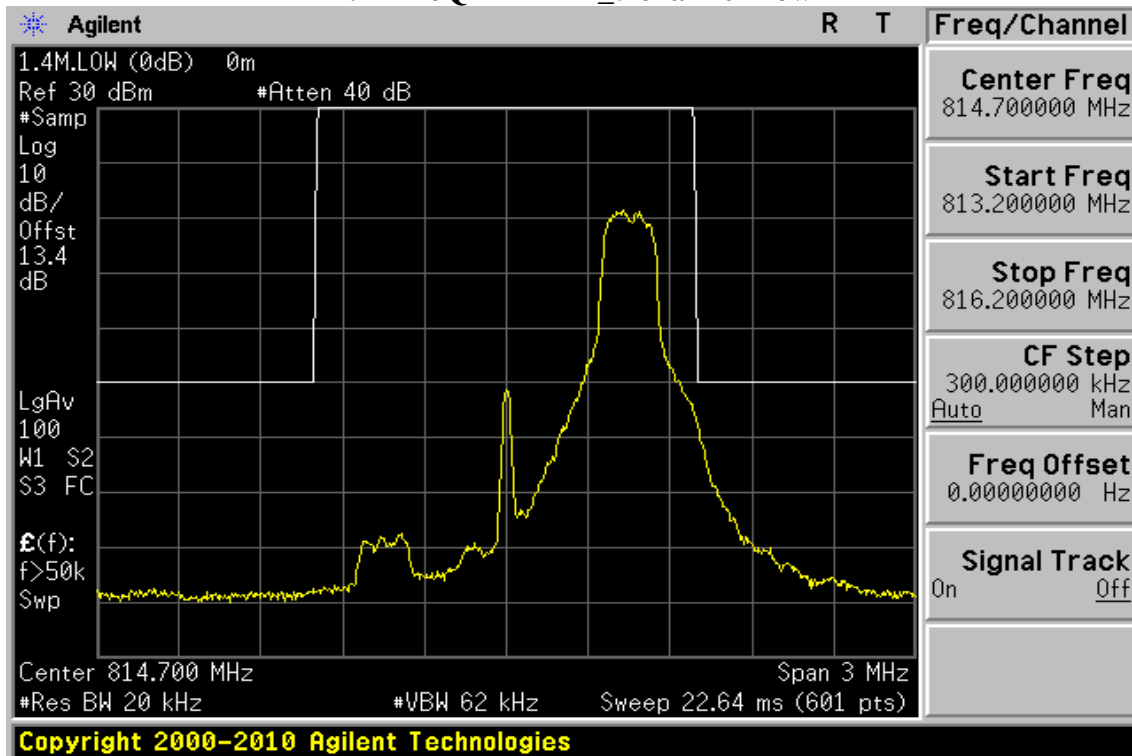
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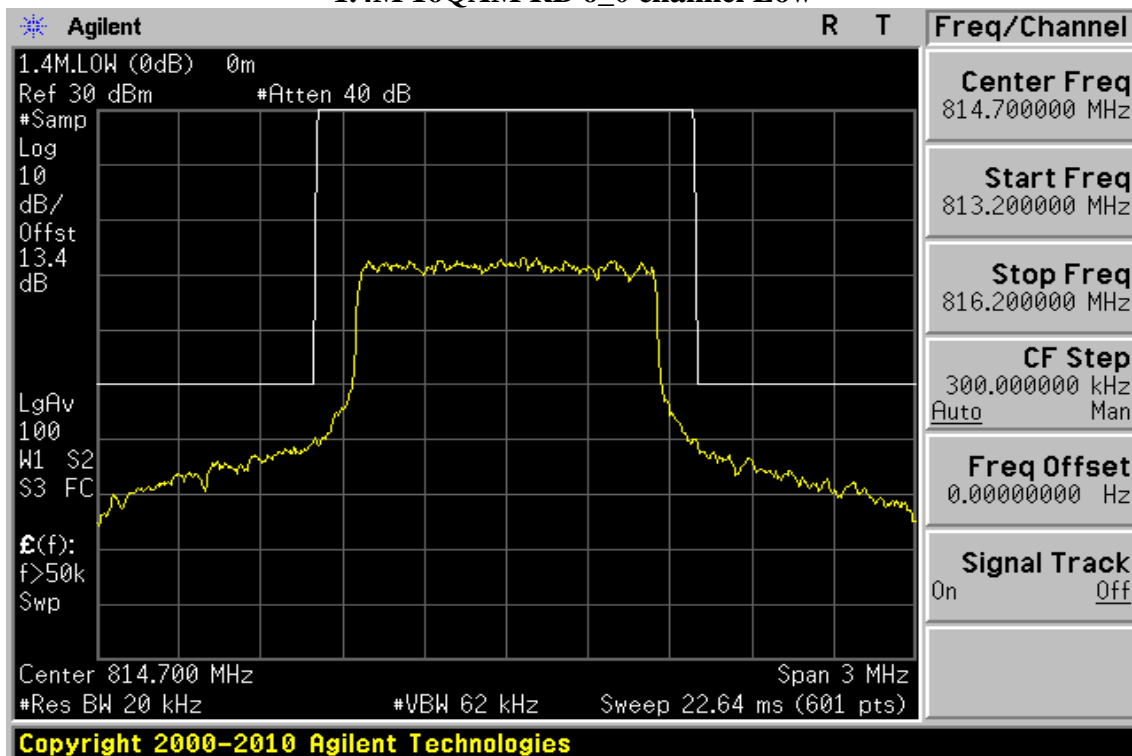
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1.4M 16QAM RB 1_5 channel Low



1.4M 16QAM RB 6_0 channel Low



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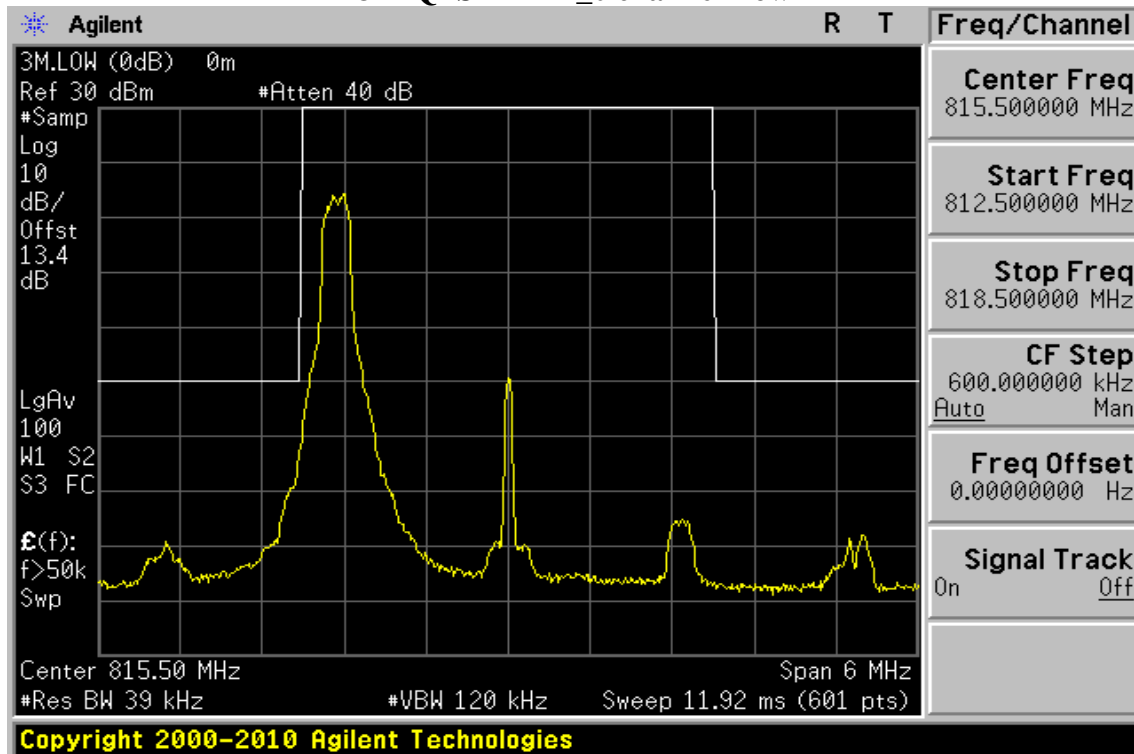
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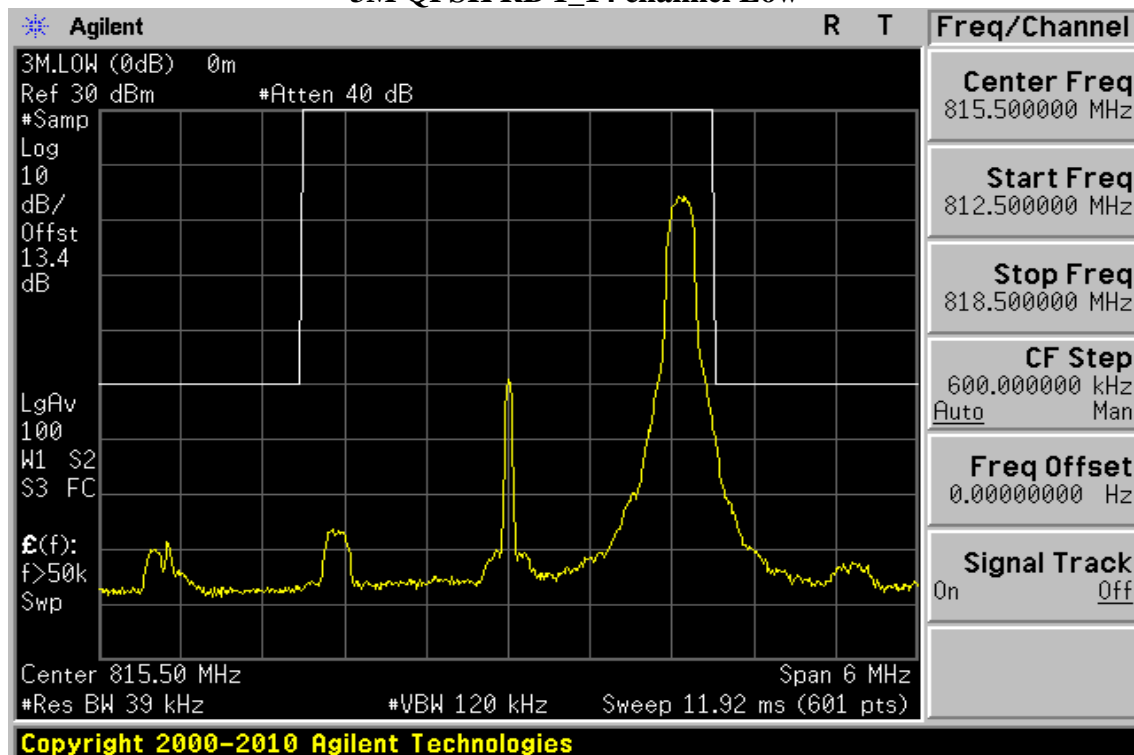
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3M QPSK RB 1_0 channel Low



3M QPSK RB 1_14 channel Low



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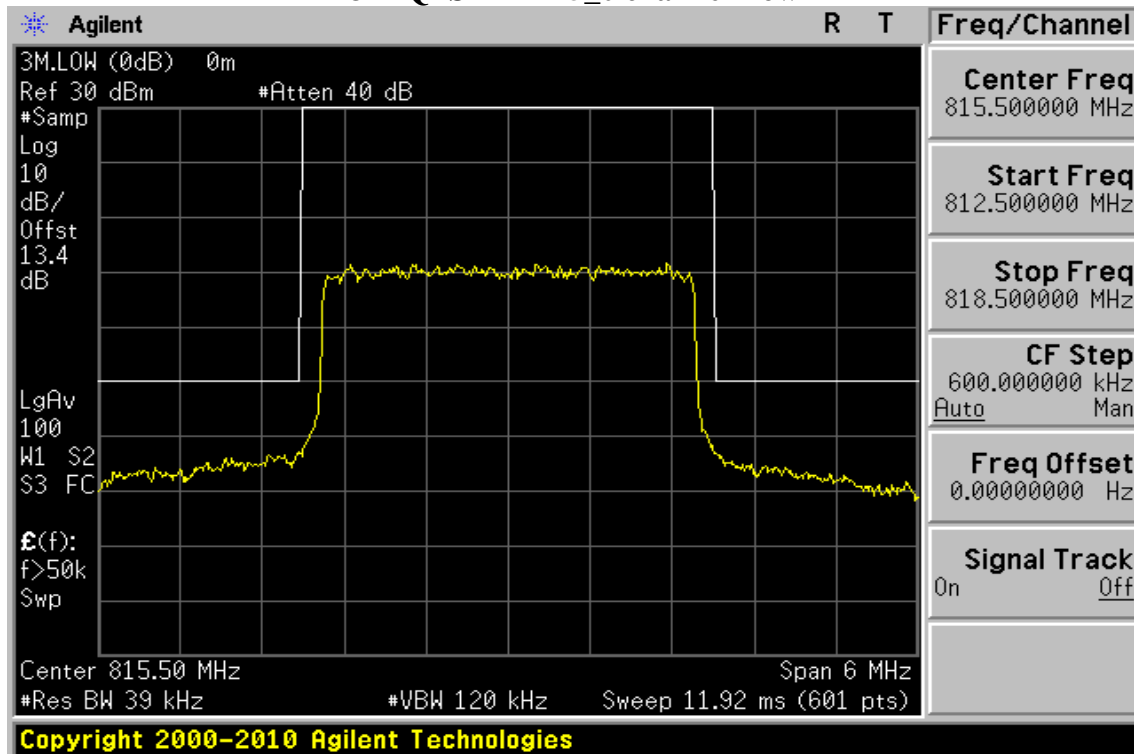
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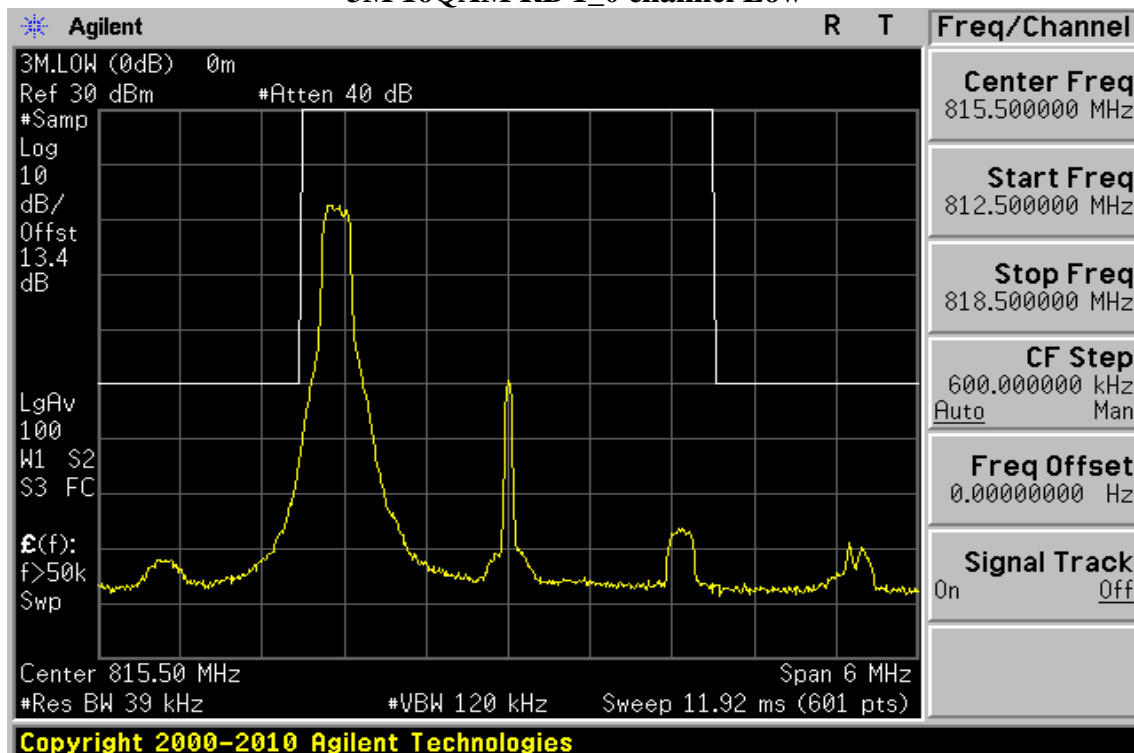
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3M QPSK RB 15_0 channel Low



3M 16QAM RB 1_0 channel Low



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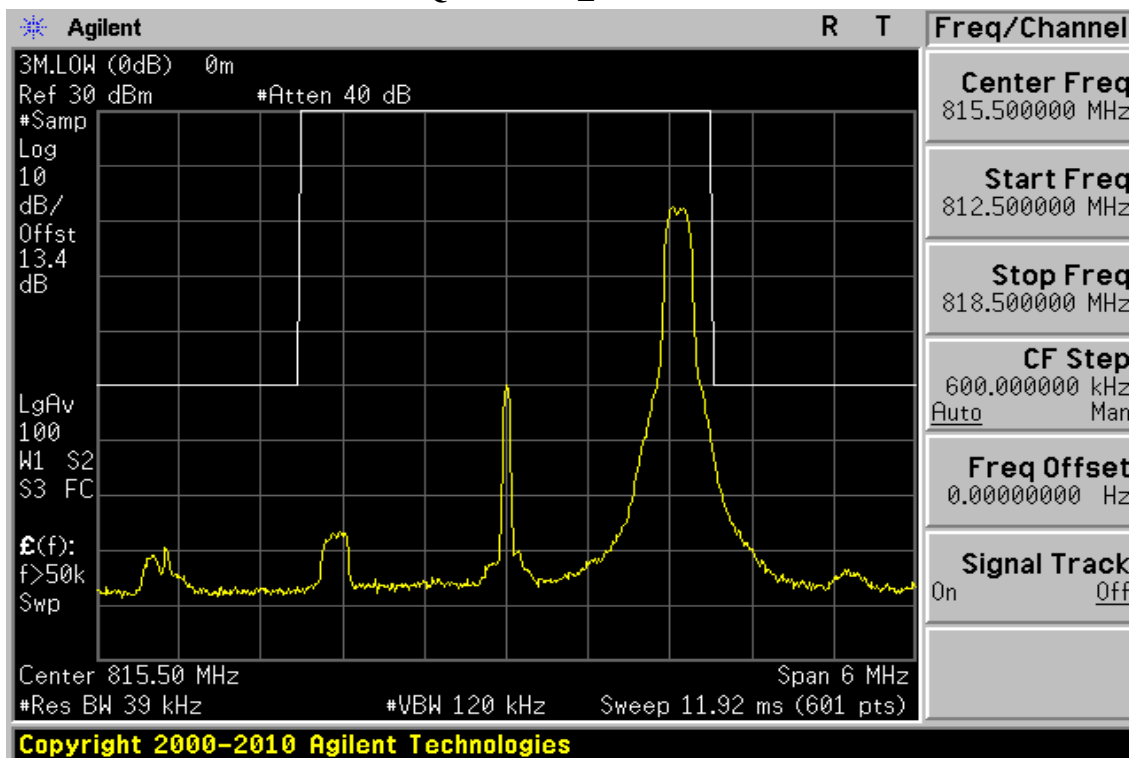
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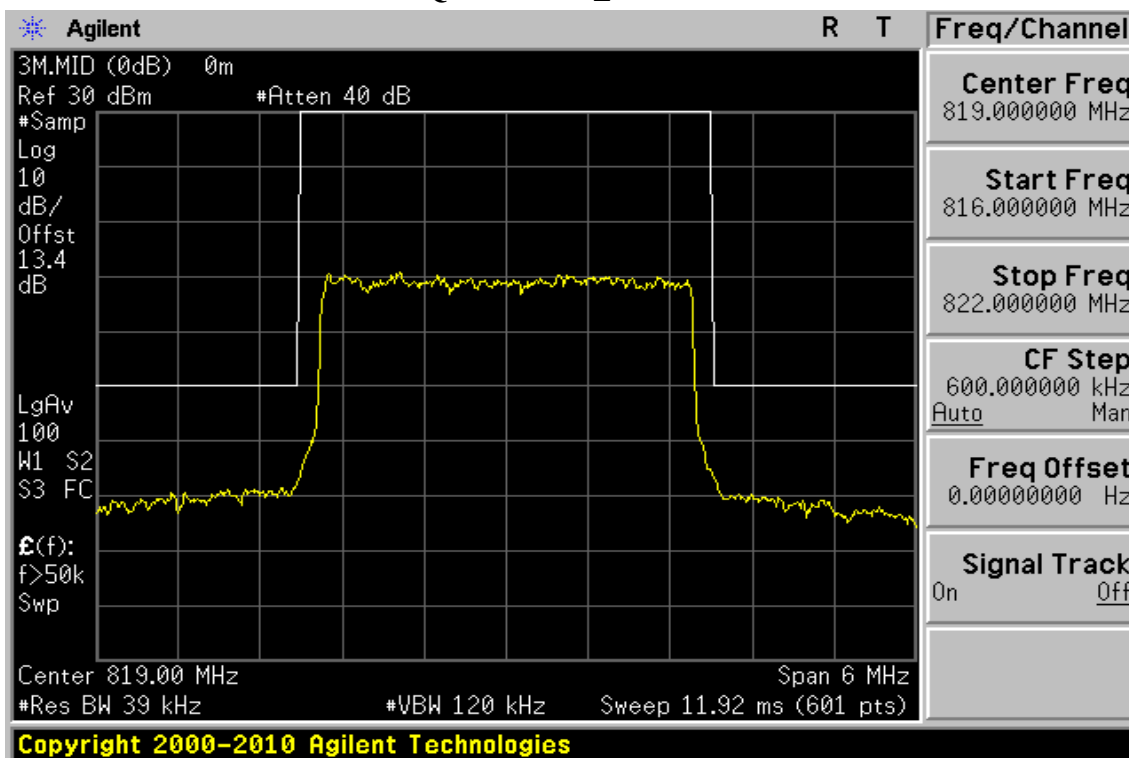
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3M 16QAM RB 1_14 channel Low



3M 16QAM RB 15_0 channel Low



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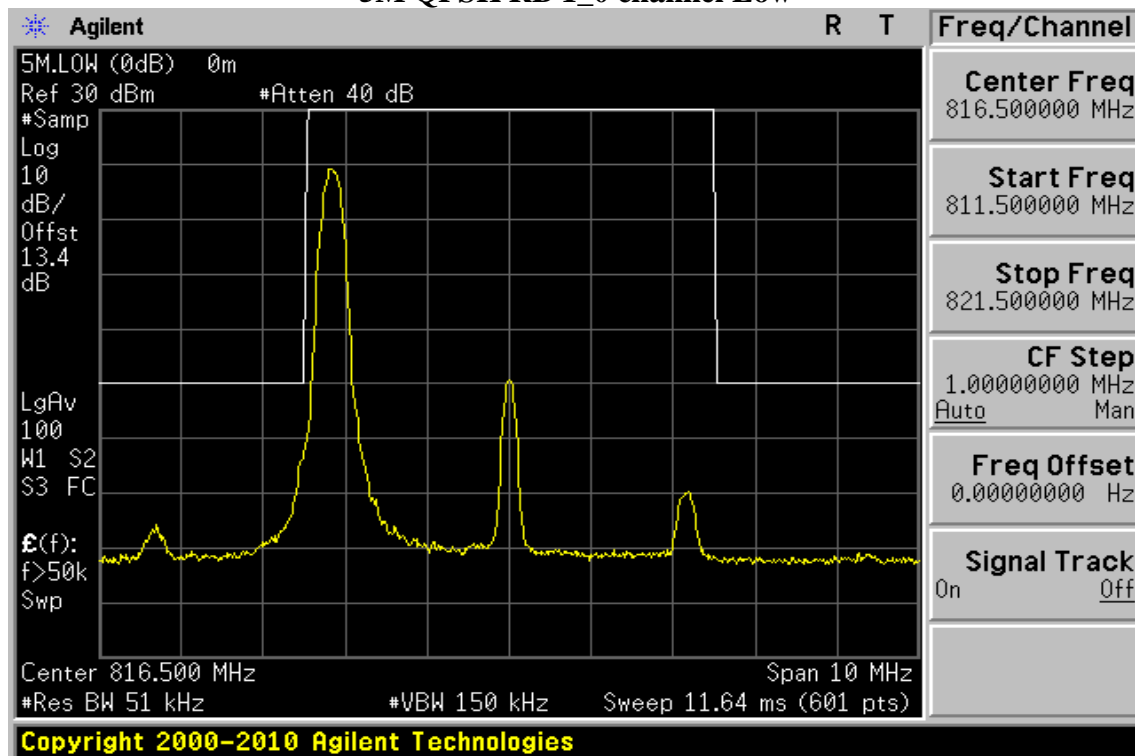
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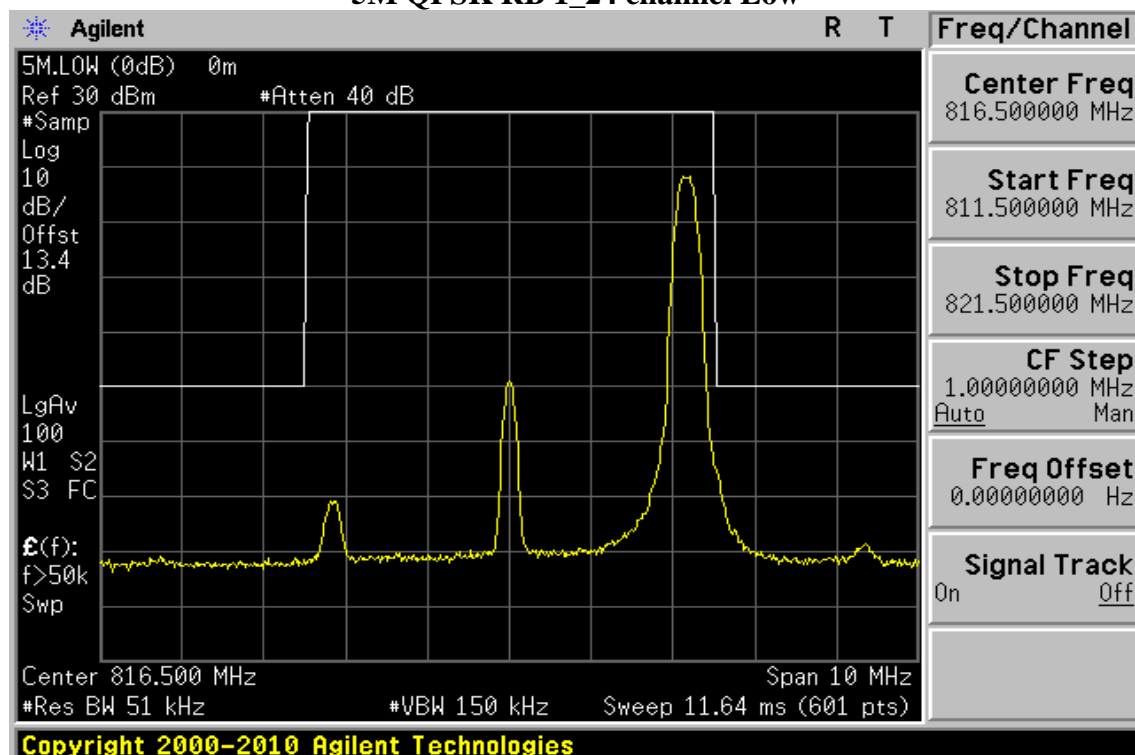
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5M QPSK RB 1_0 channel Low



5M QPSK RB 1_24 channel Low



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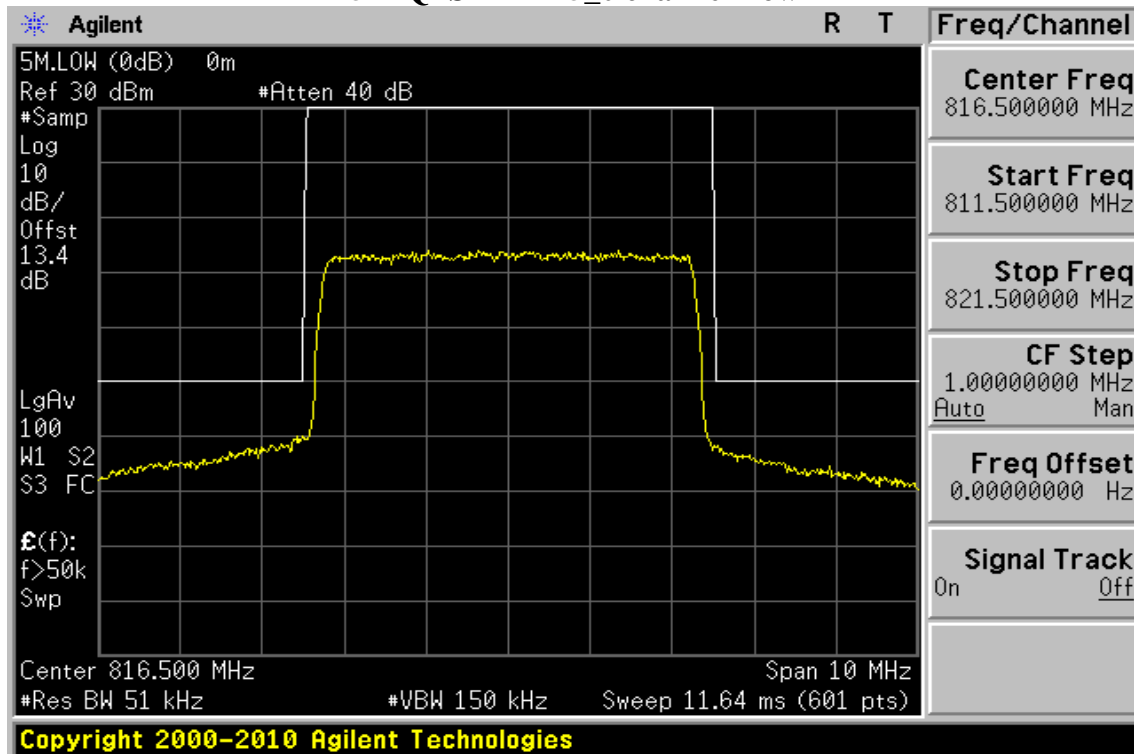
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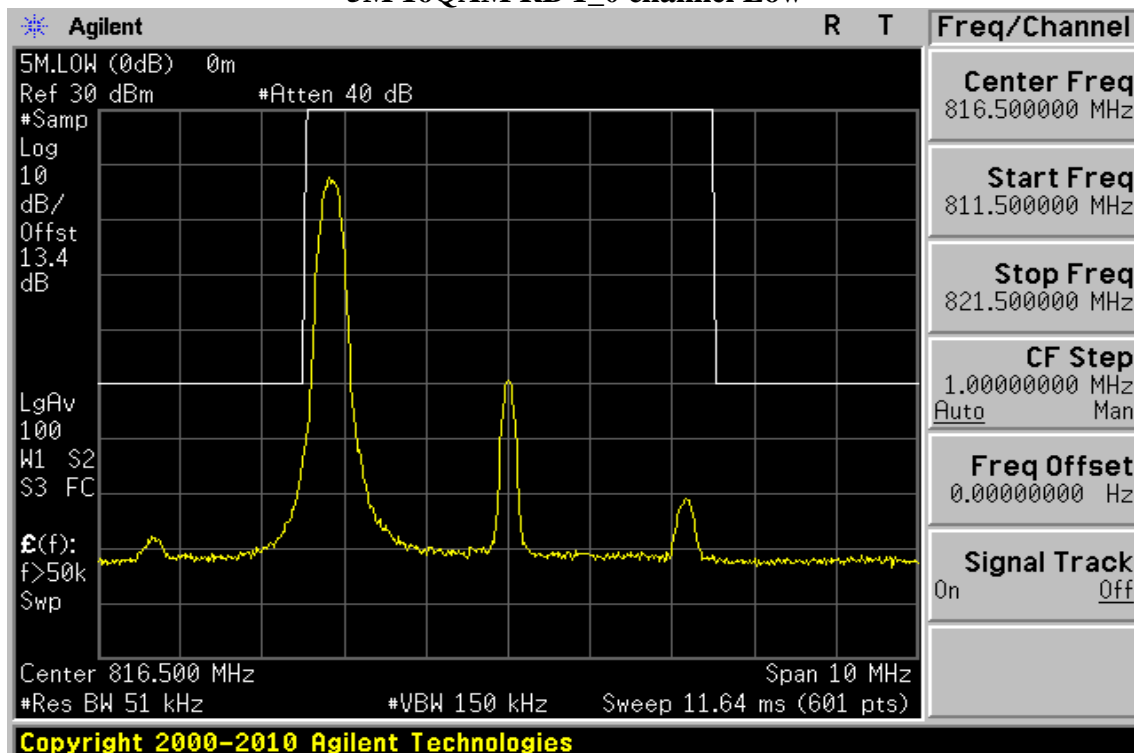
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5M QPSK RB 25_0 channel Low



5M 16QAM RB 1_0 channel Low



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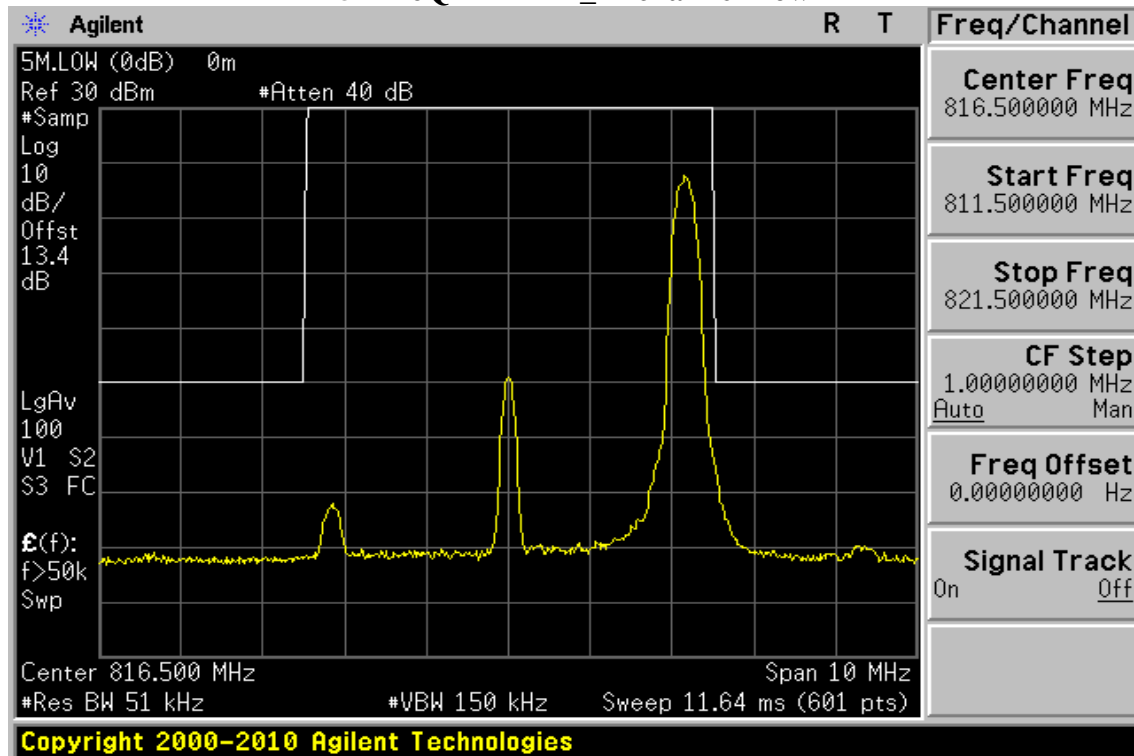
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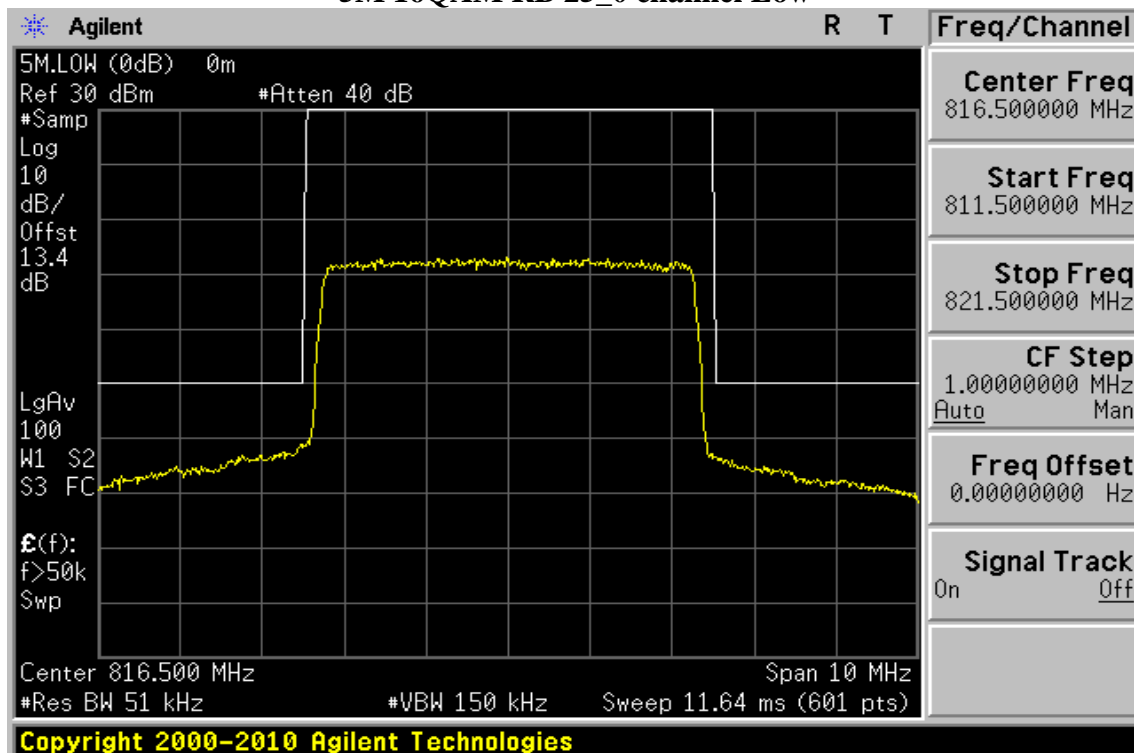
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5M 16QAM RB 1_24 channel Low



5M 16QAM RB 25_0 channel Low



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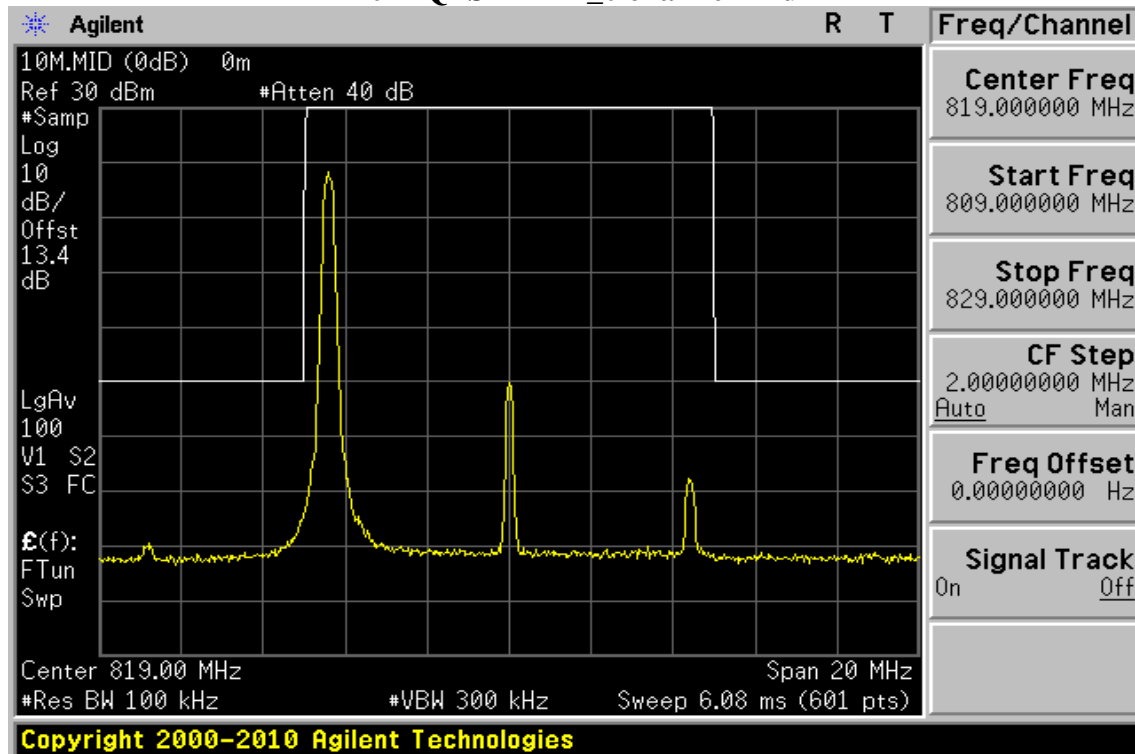
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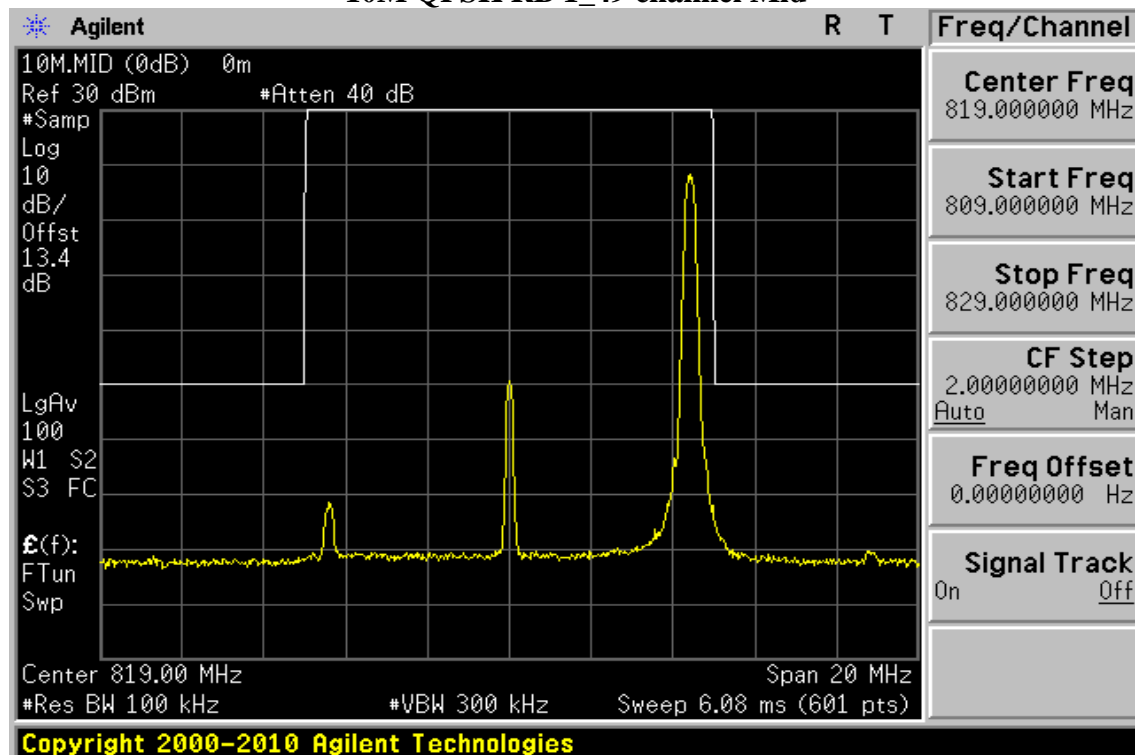
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10M QPSK RB 1_0 channel Mid



10M QPSK RB 1_49 channel Mid



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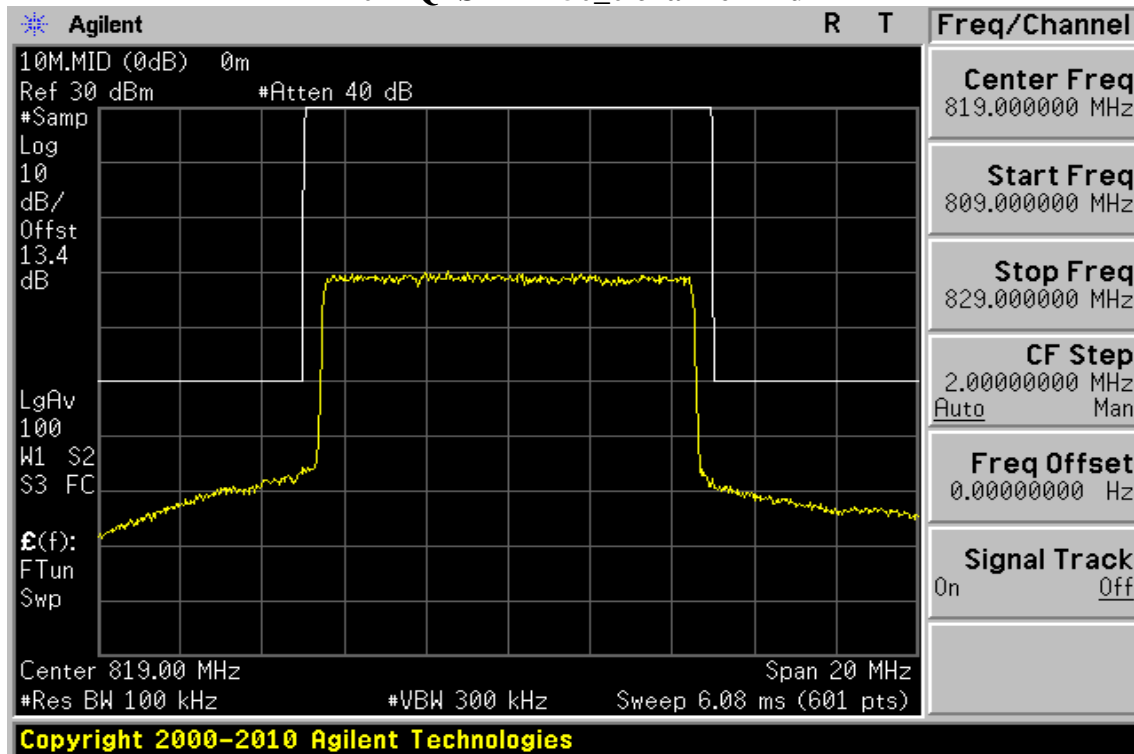
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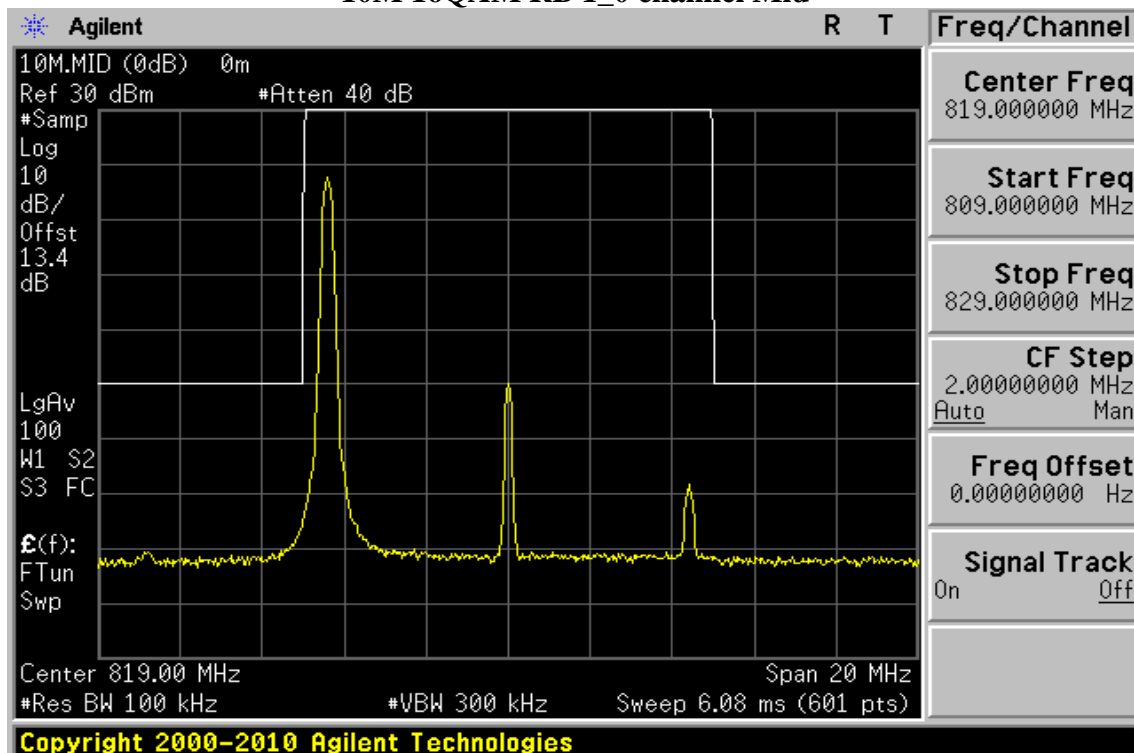
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10M QPSK RB 50_0 channel Mid



10M 16QAM RB 1_0 channel Mid



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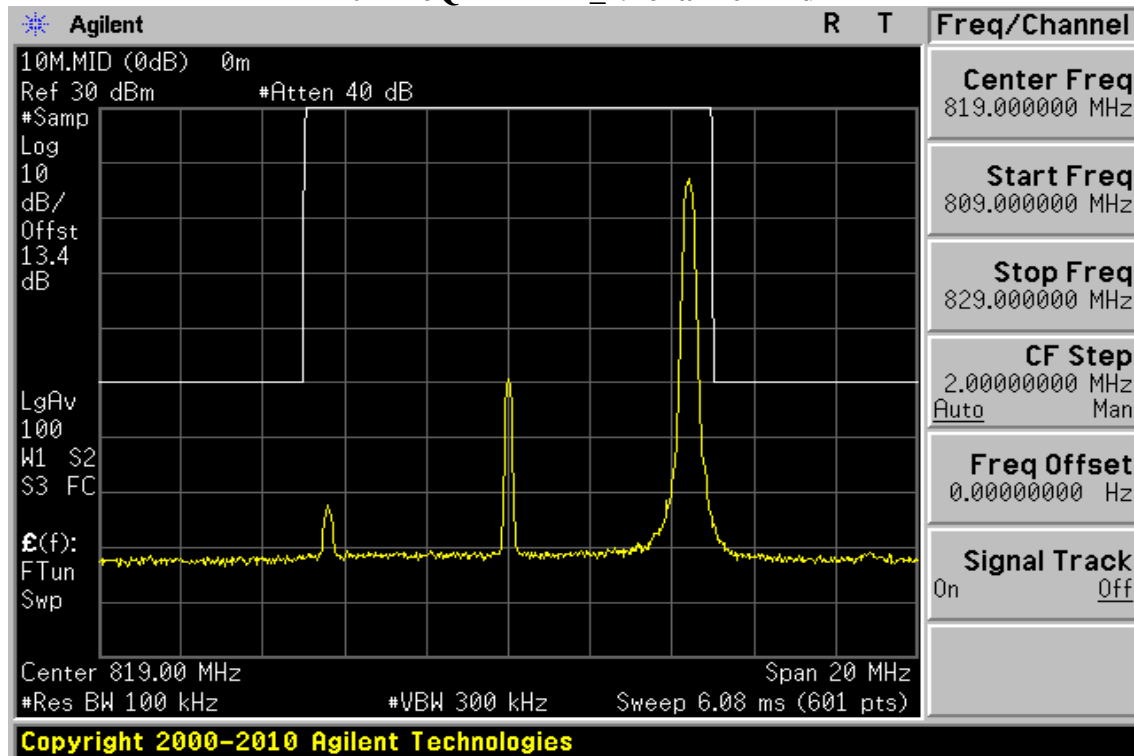
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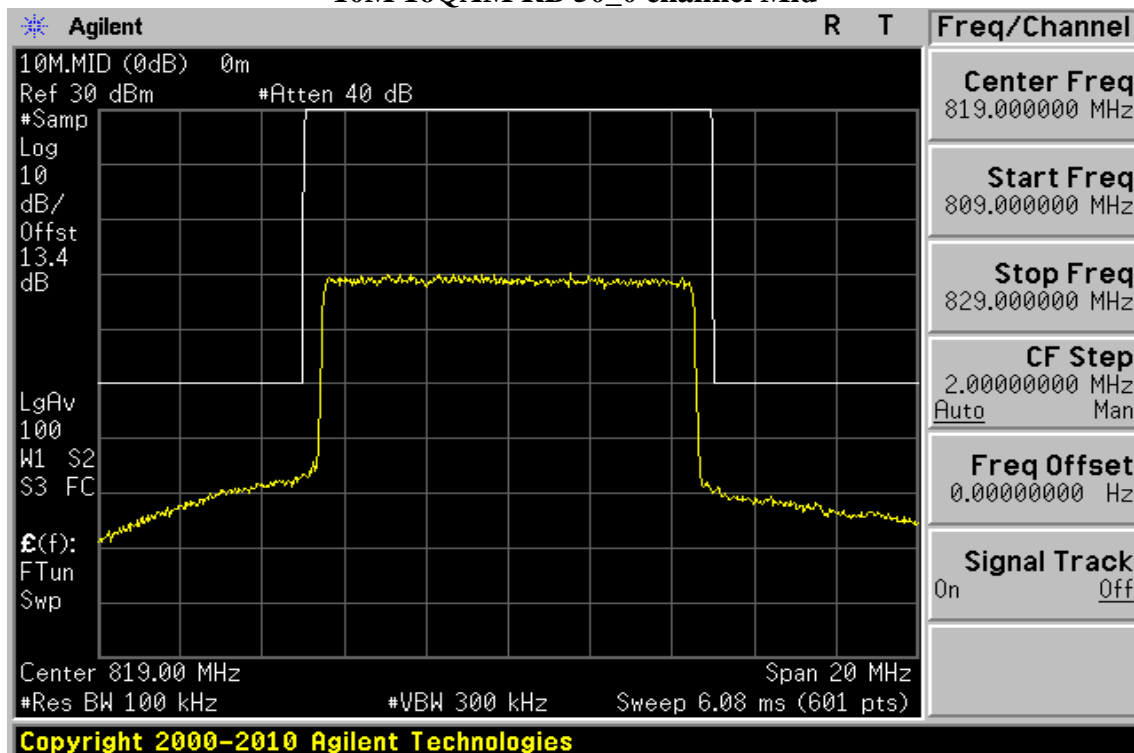
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10M 16QAM RB 1_49 channel Mid



10M 16QAM RB 50_0 channel Mid



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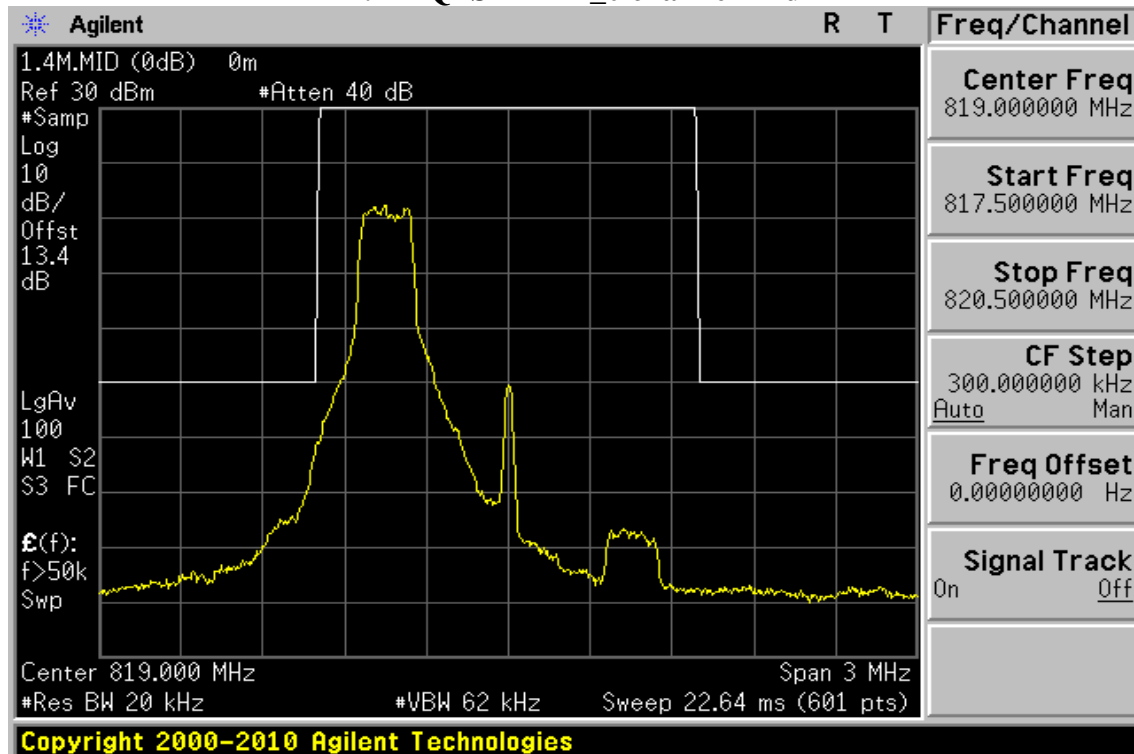
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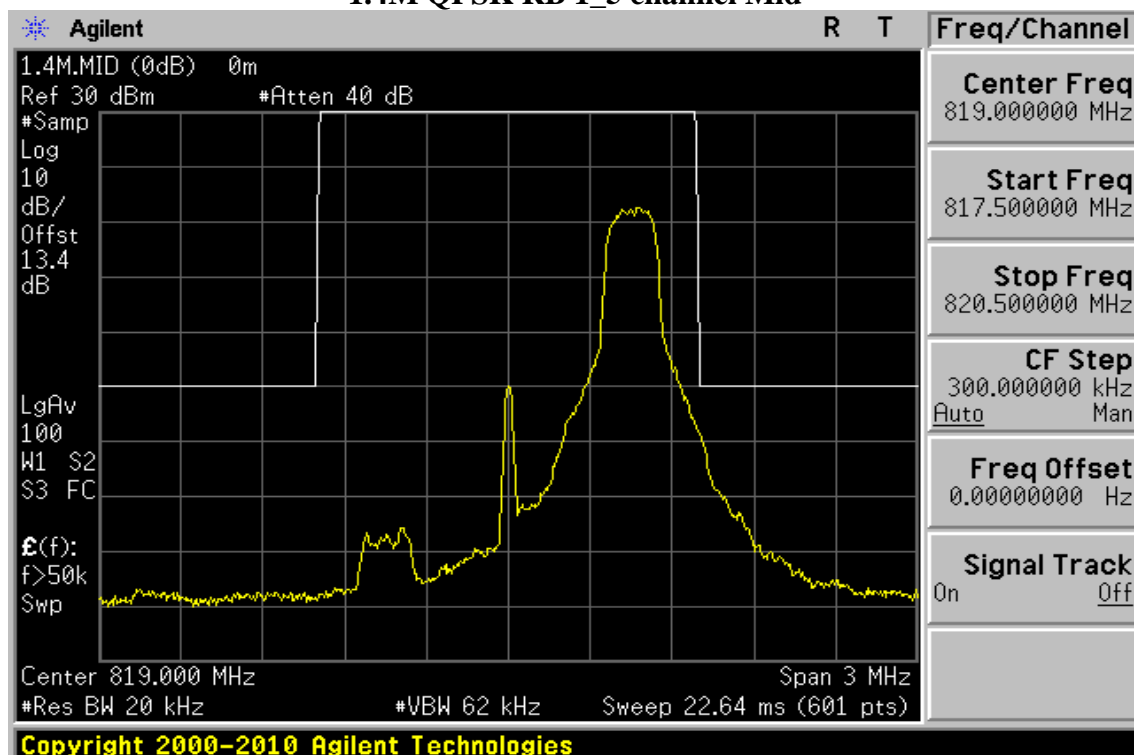
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1.4M QPSK RB 1_0 channel Mid



1.4M QPSK RB 1_5 channel Mid



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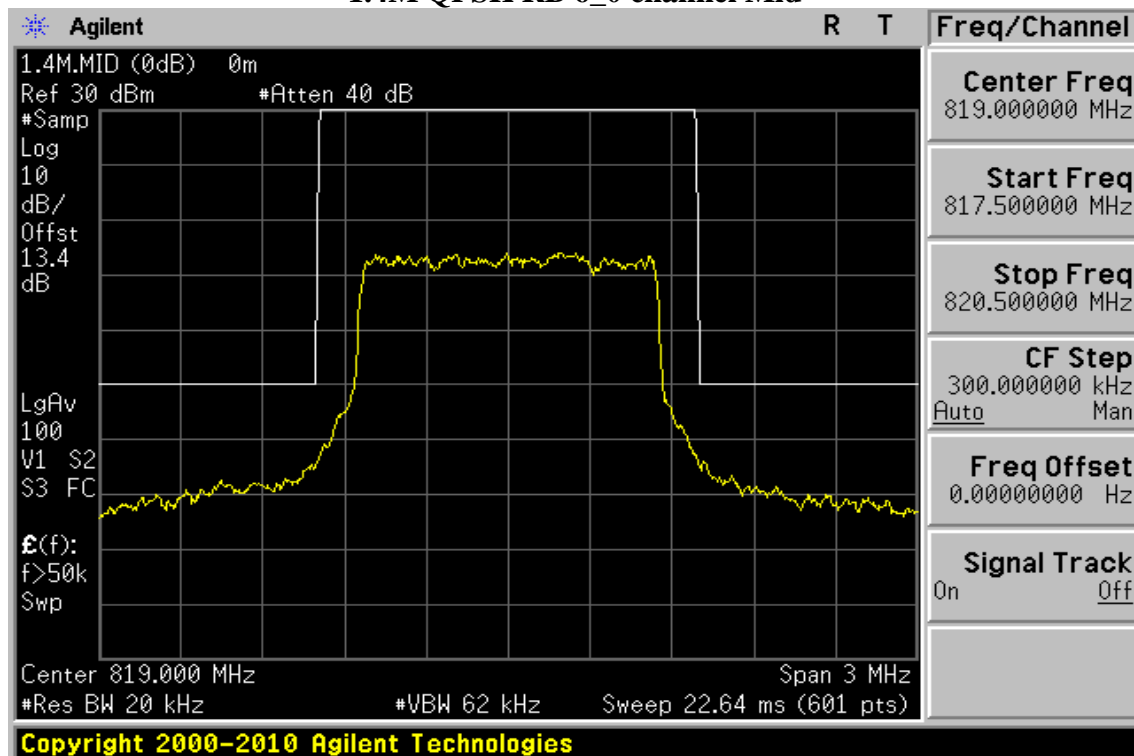
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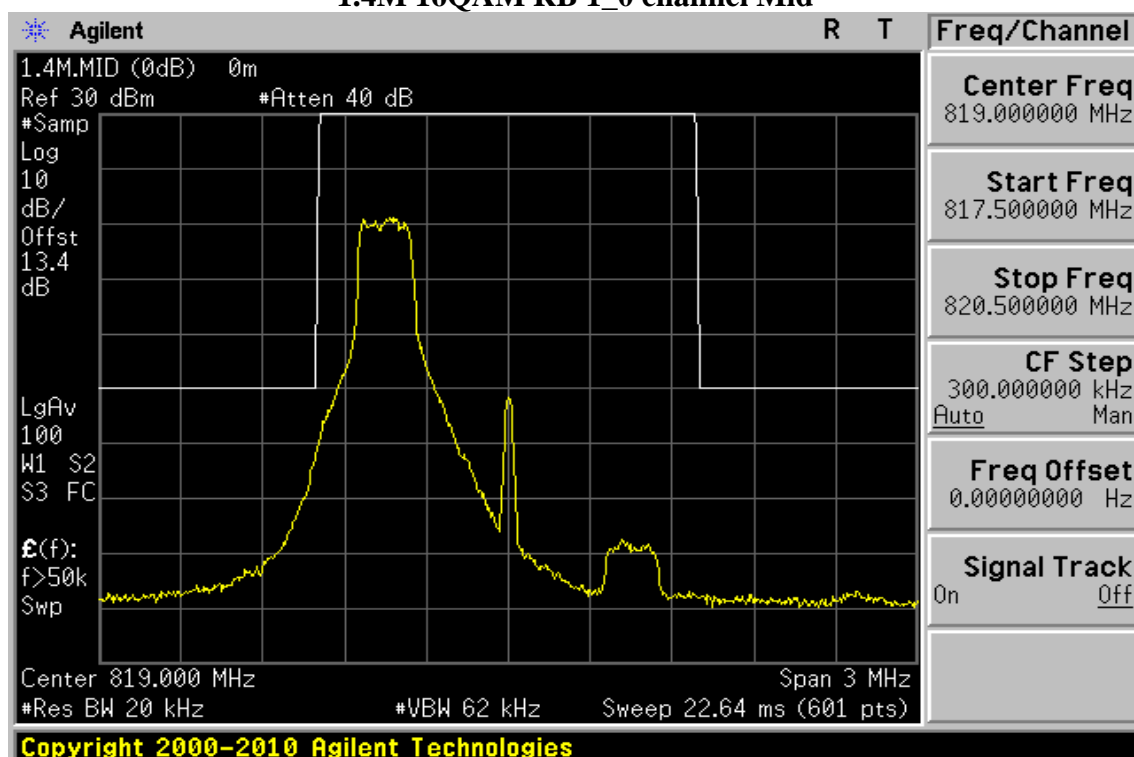
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1.4M QPSK RB 6_0 channel Mid



1.4M 16QAM RB 1_0 channel Mid



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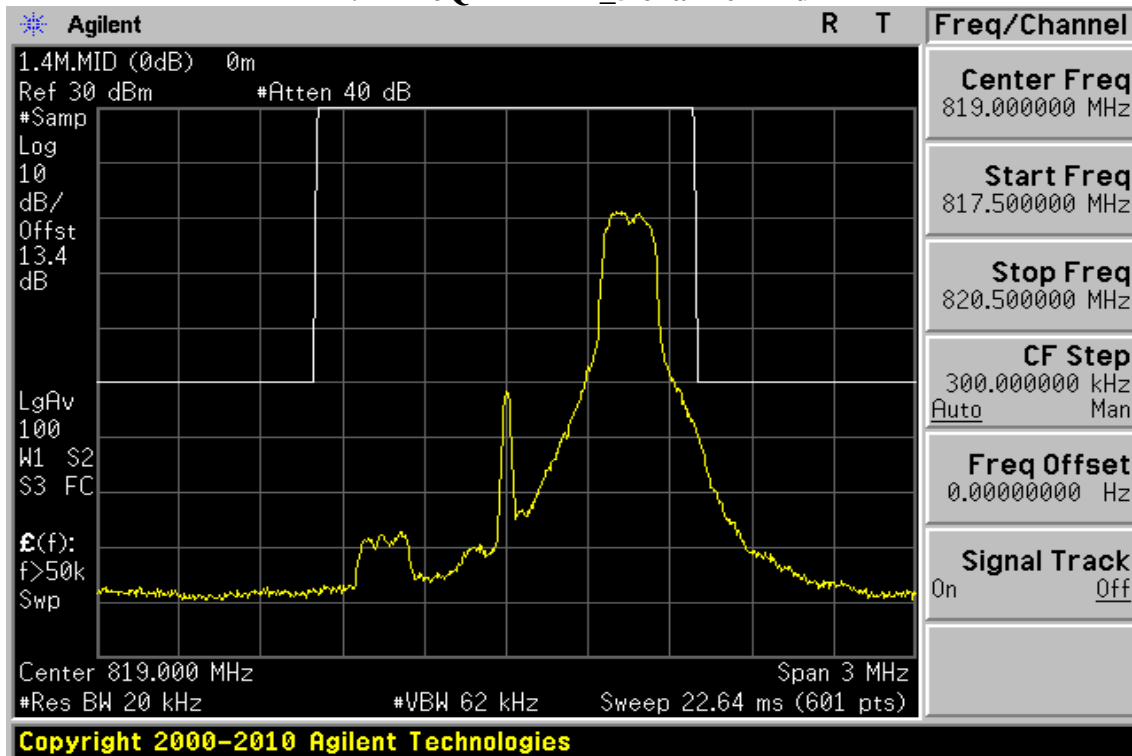
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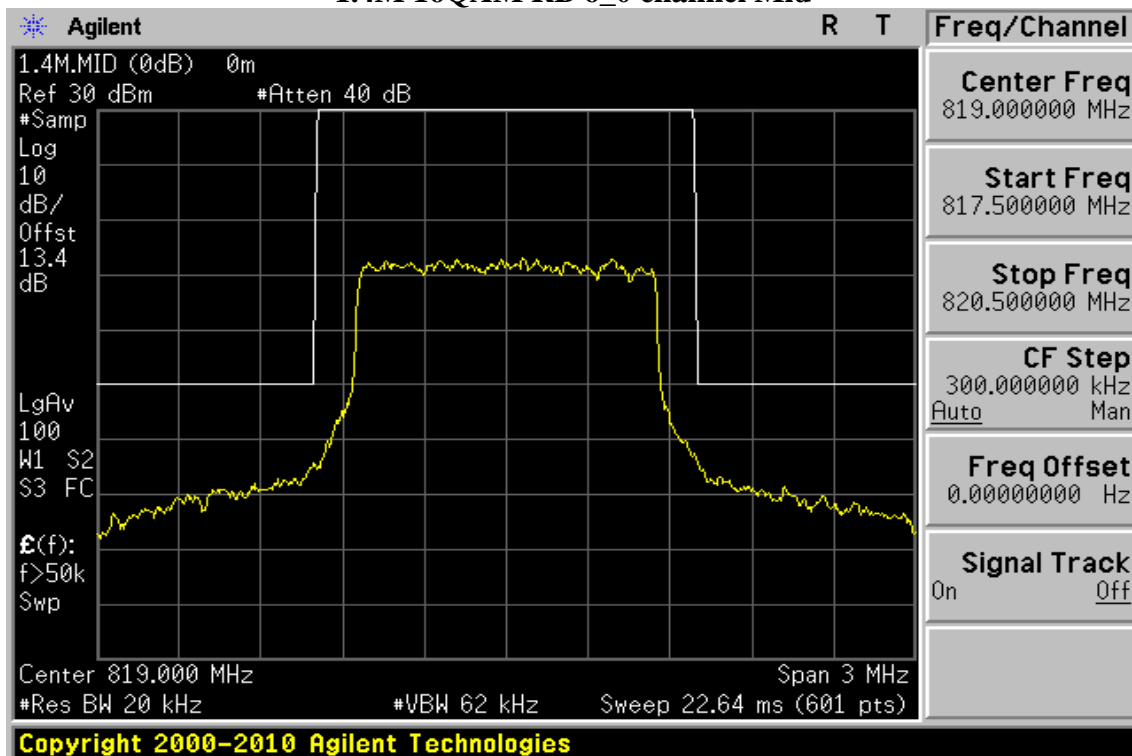
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1.4M 16QAM RB 1_5 channel Mid



1.4M 16QAM RB 6_0 channel Mid



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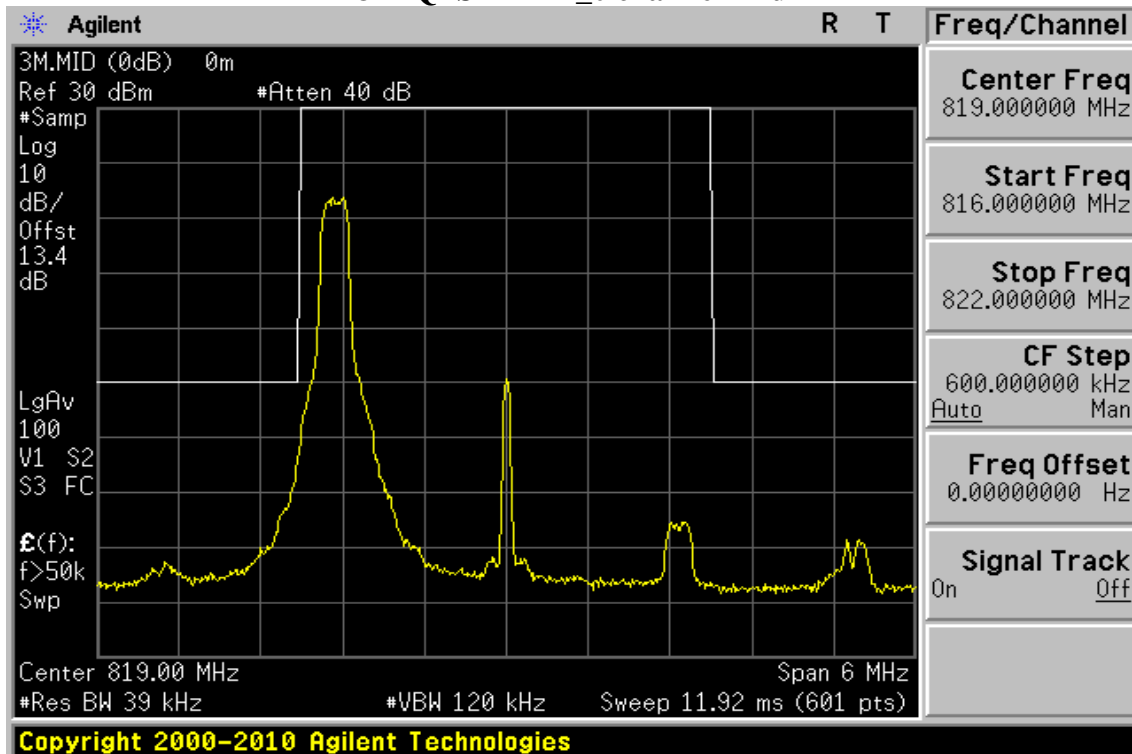
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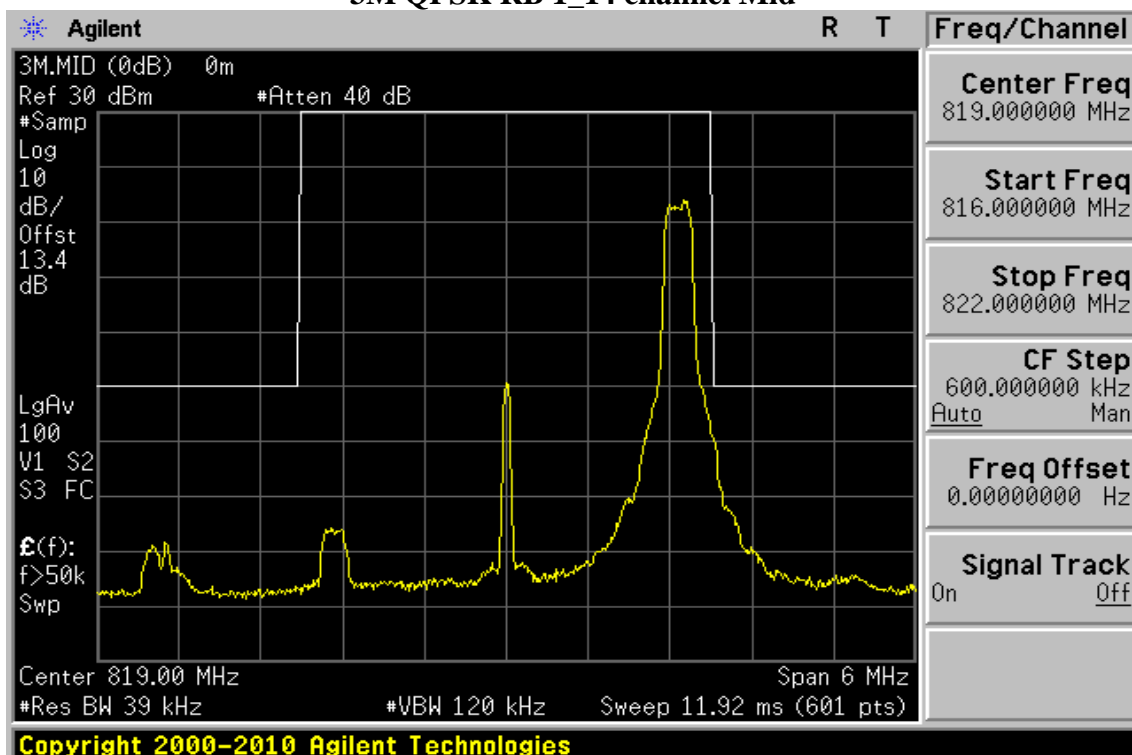
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3M QPSK RB 1_0 channel Mid



3M QPSK RB 1_14 channel Mid



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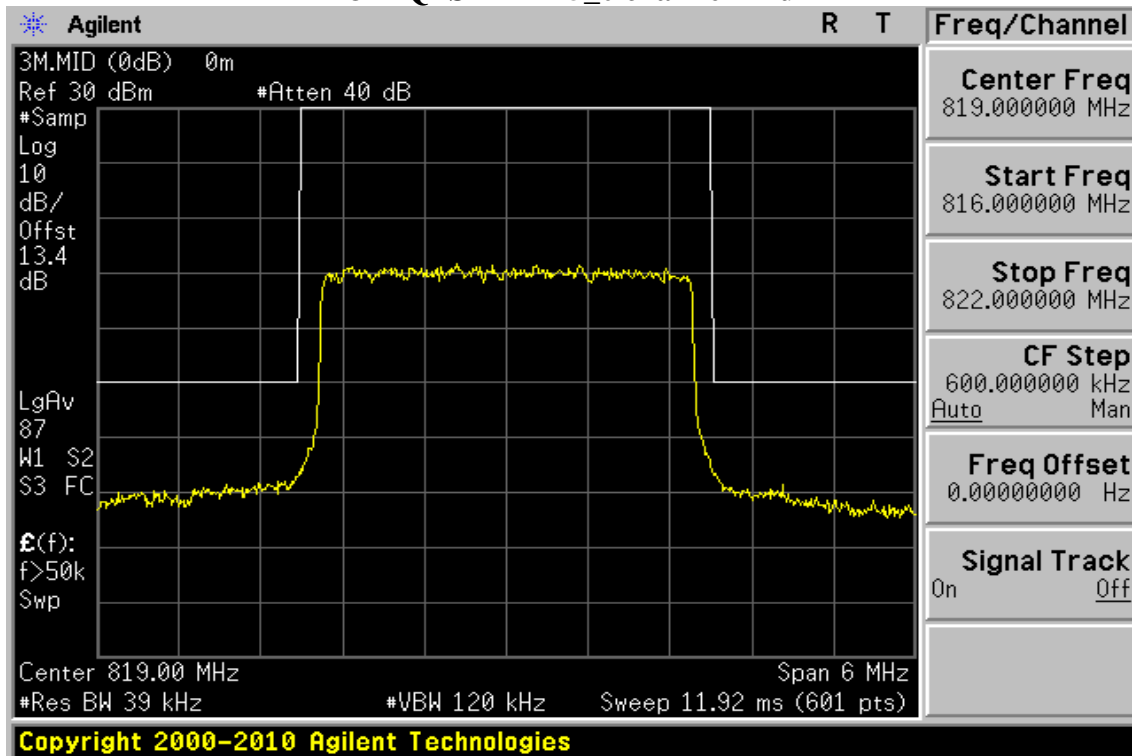
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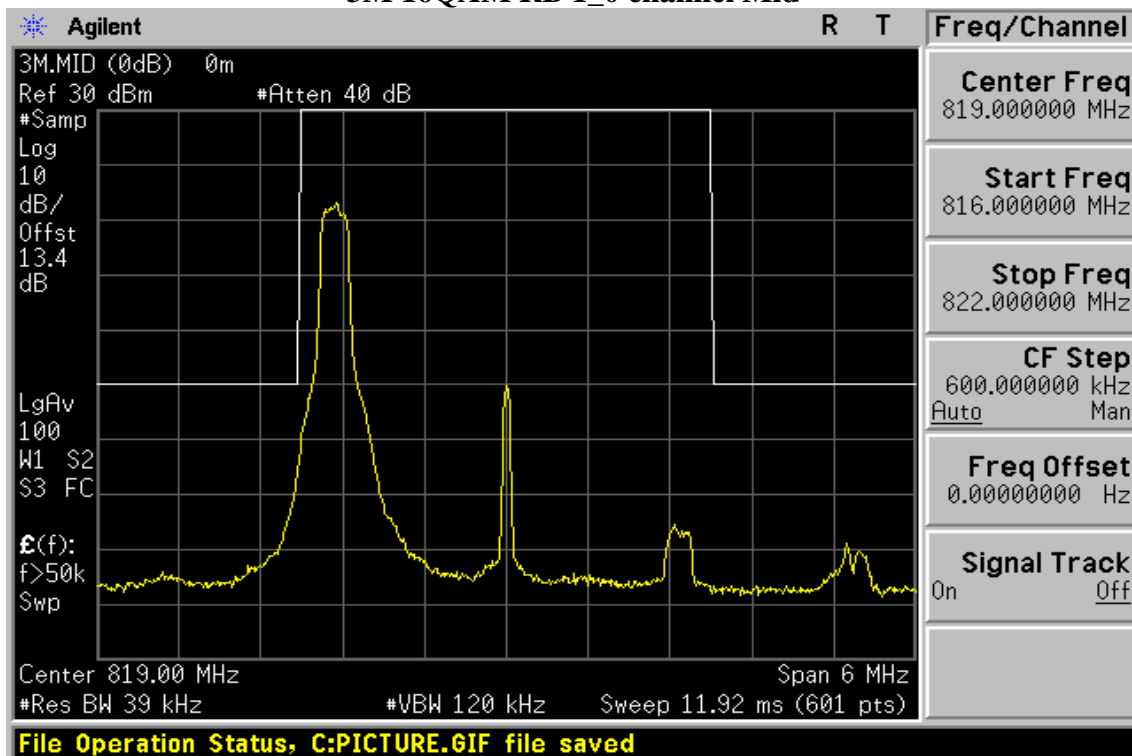
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3M QPSK RB 15_0 channel Mid



3M 16QAM RB 1_0 channel Mid



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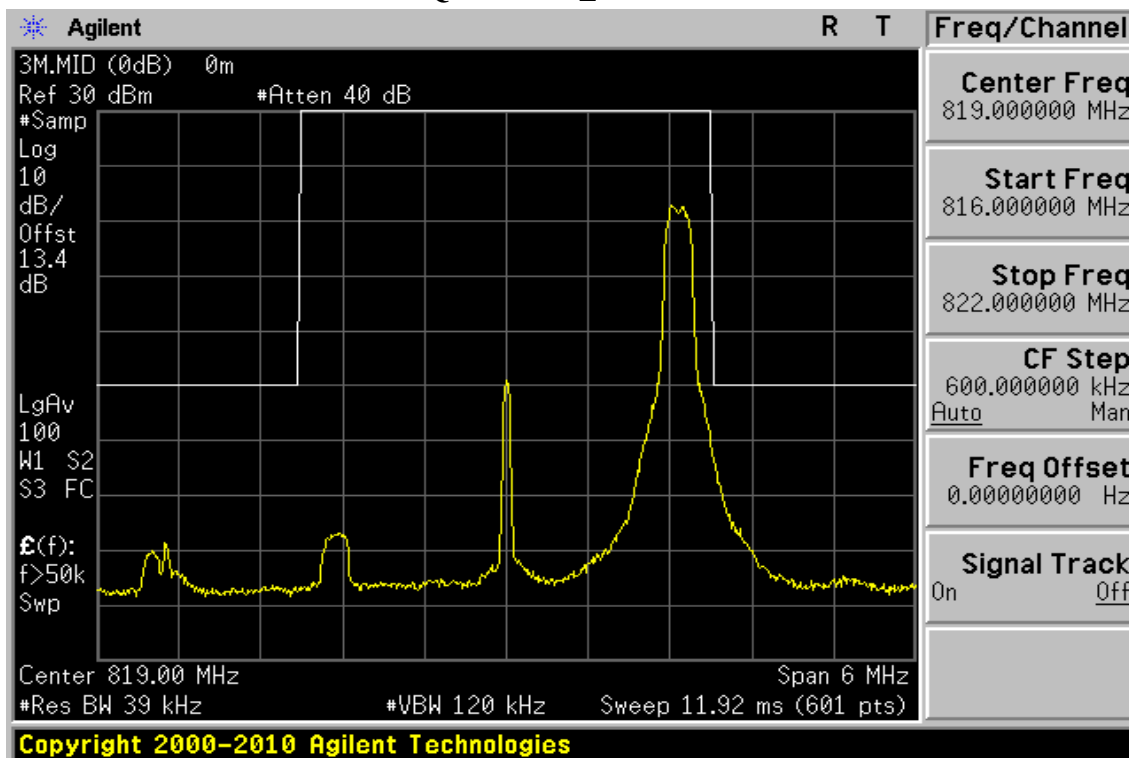
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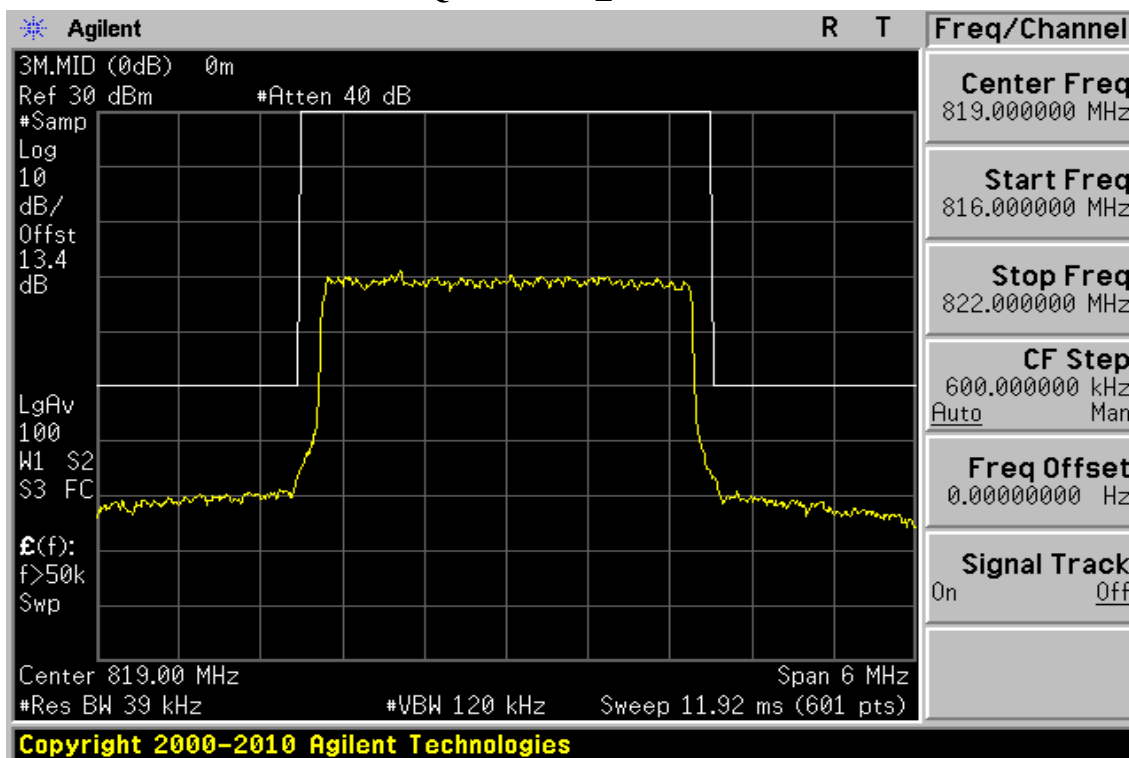
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3M 16QAM RB 1_14 channel Mid



3M 16QAM RB 15_0 channel Mid



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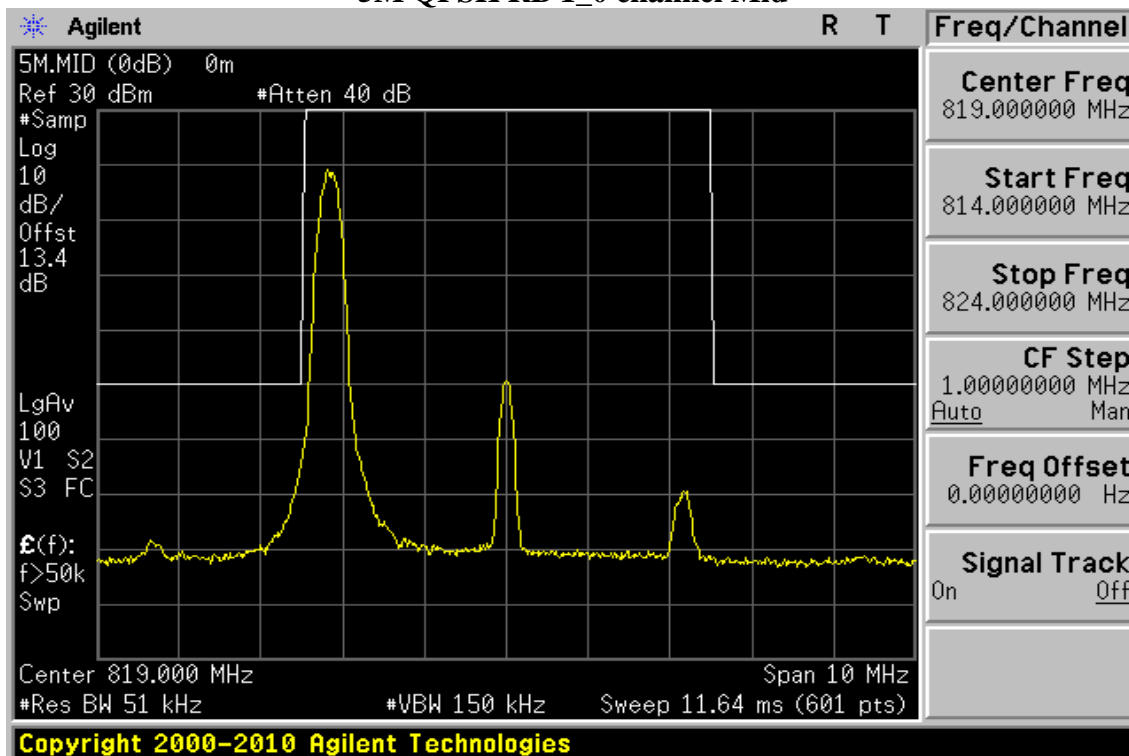
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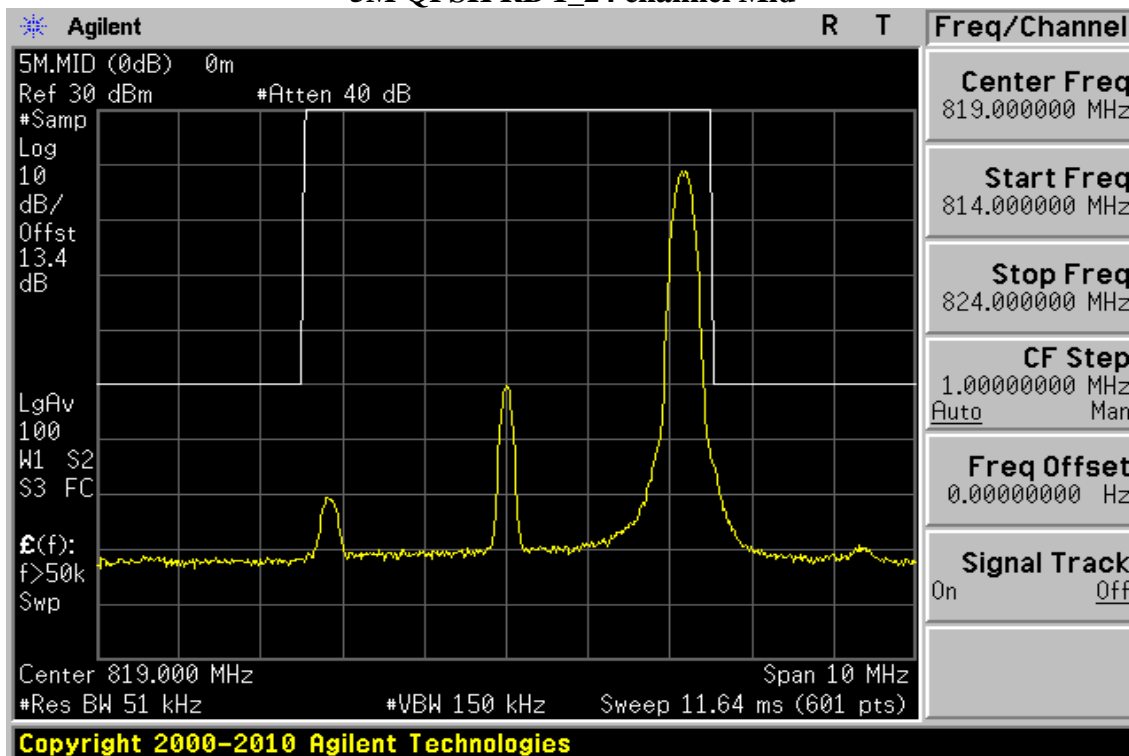
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5M QPSK RB 1_0 channel Mid



5M QPSK RB 1_24 channel Mid



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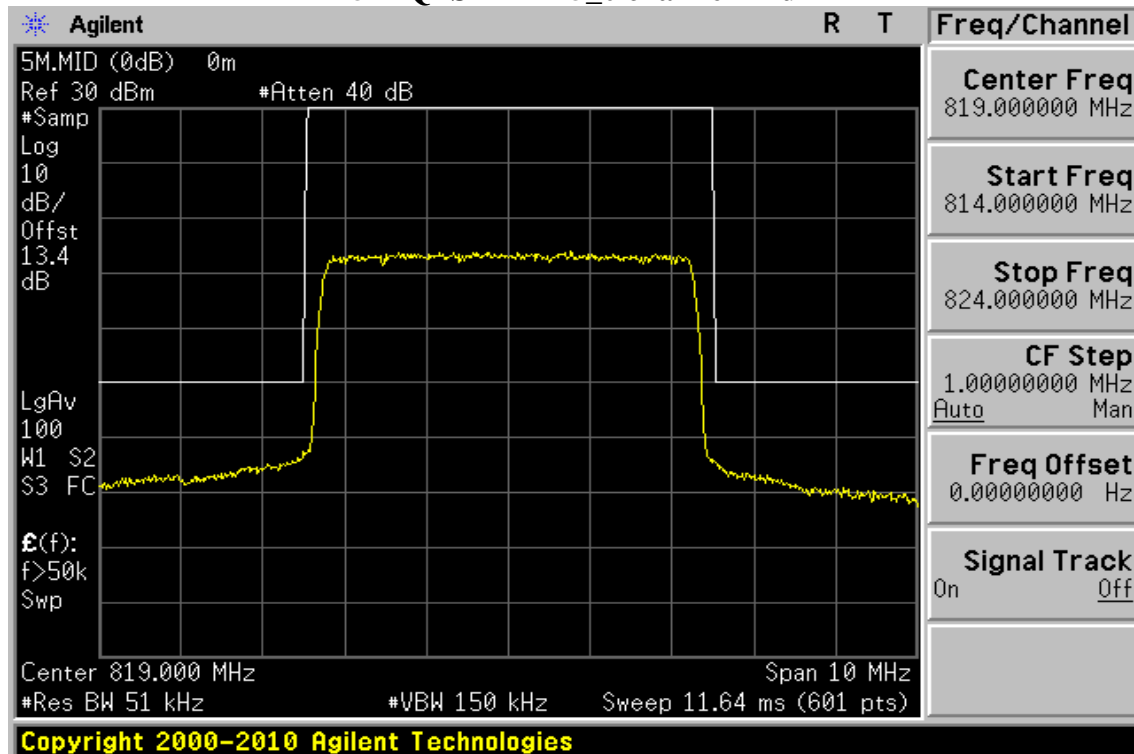
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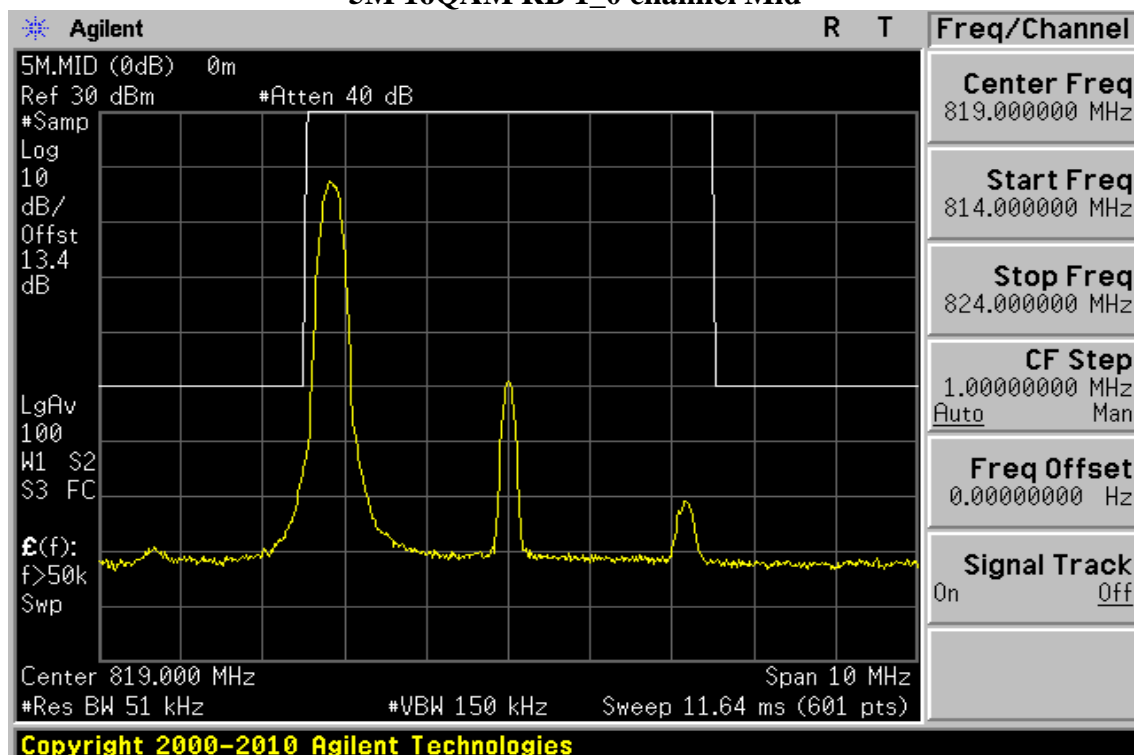
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5M QPSK RB 25_0 channel Mid



5M 16QAM RB 1_0 channel Mid



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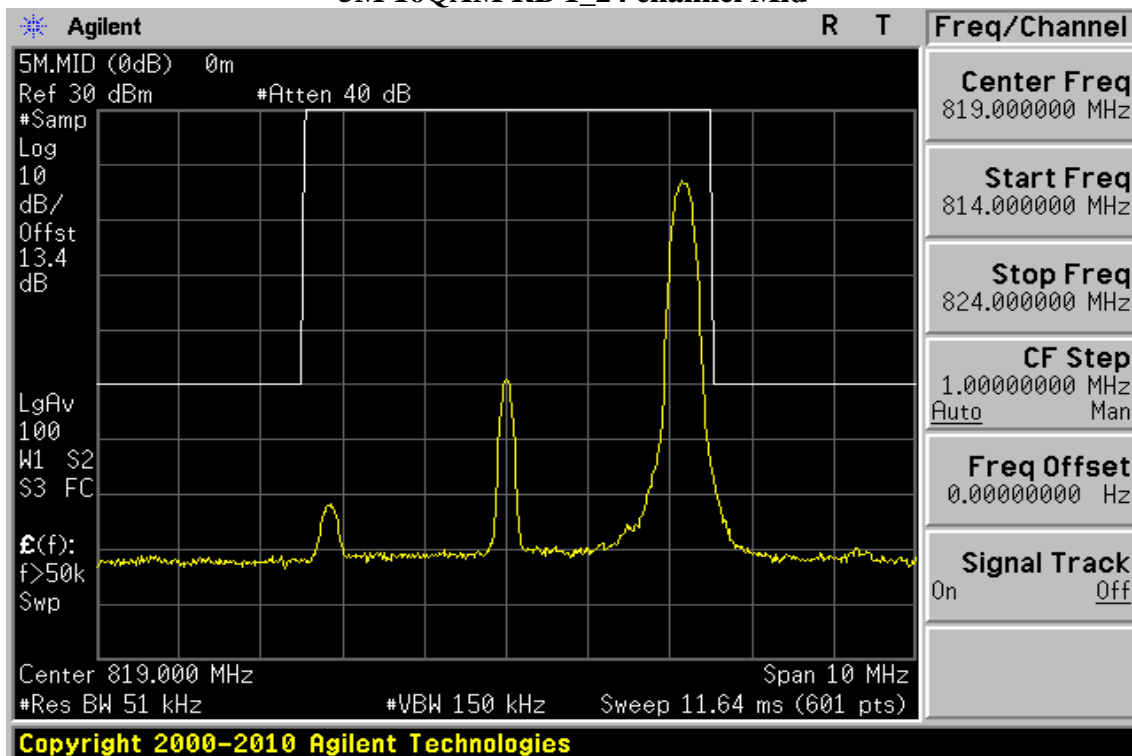
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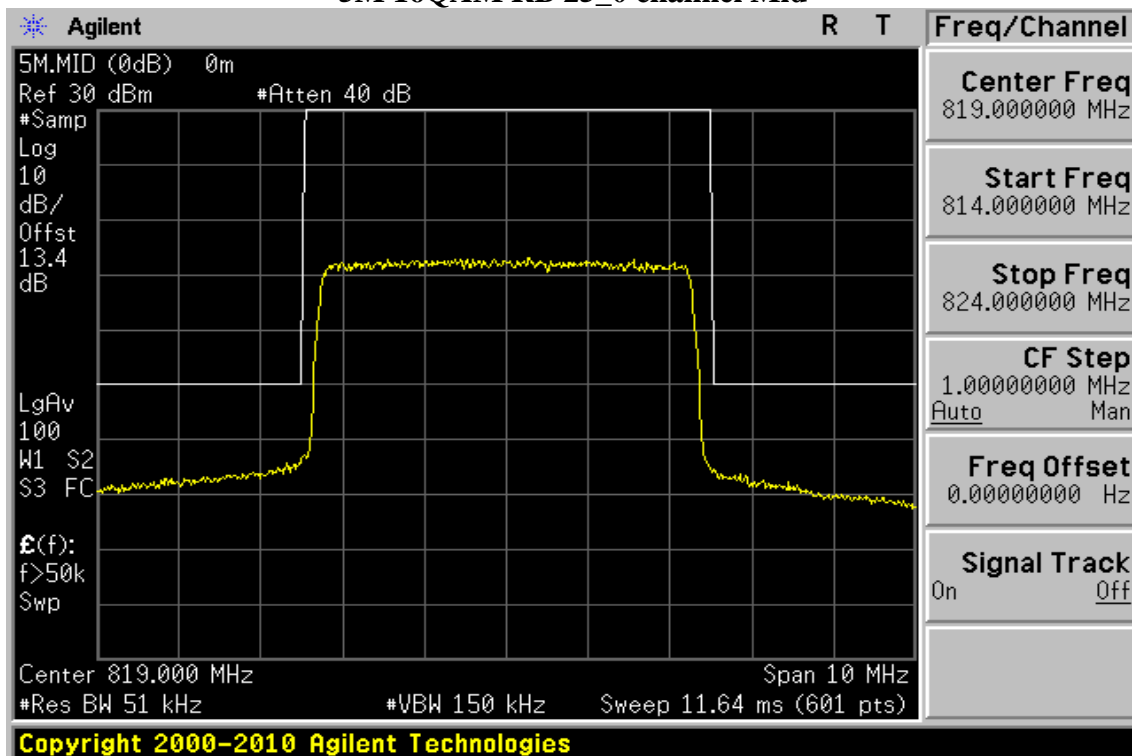
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5M 16QAM RB 1_24 channel Mid



5M 16QAM RB 25_0 channel Mid



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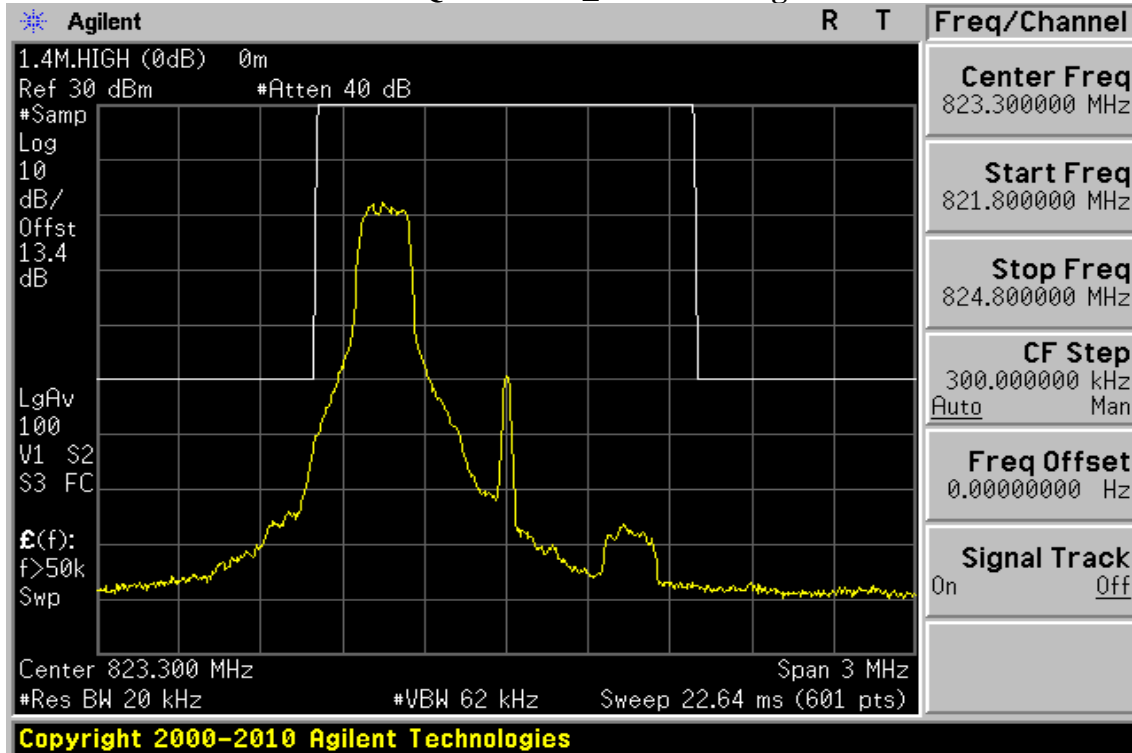
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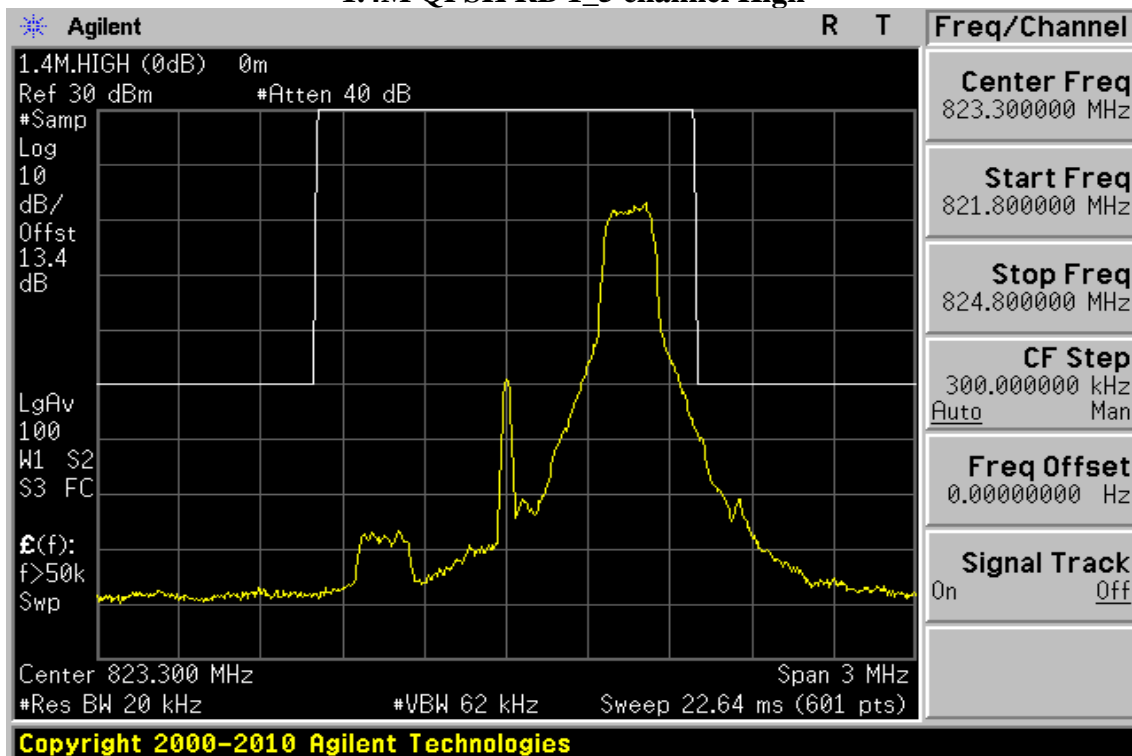
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1.4M QPSK RB 1_0 channel High



1.4M QPSK RB 1_5 channel High



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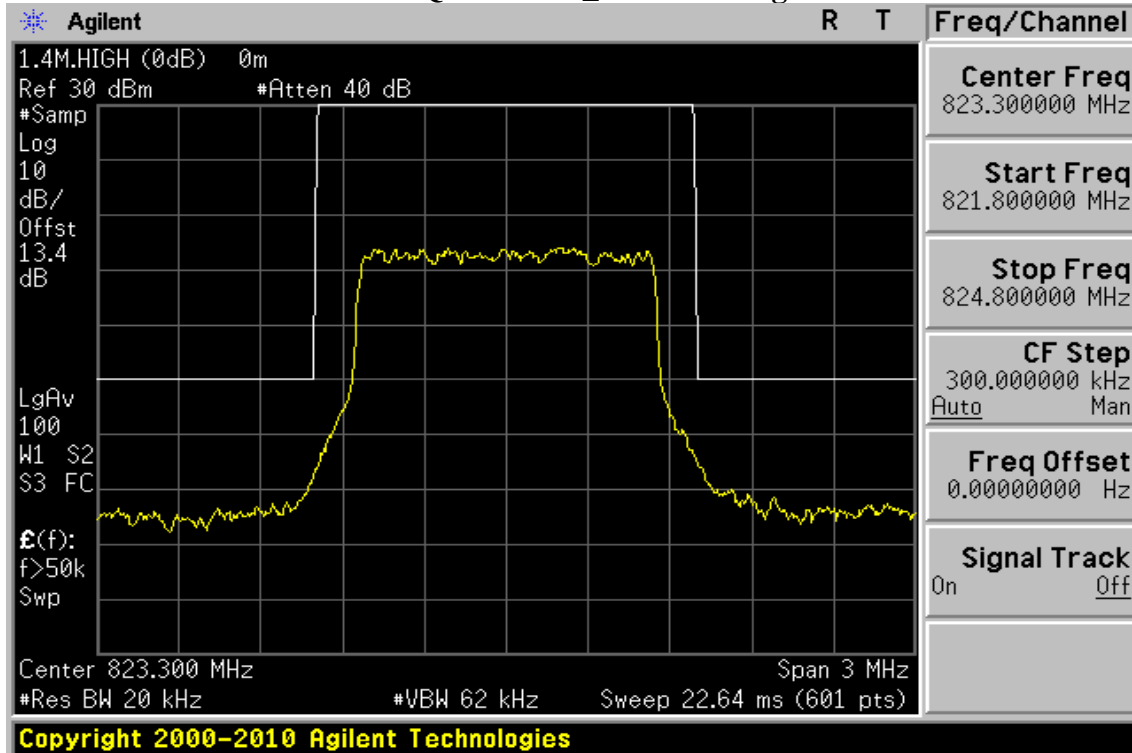
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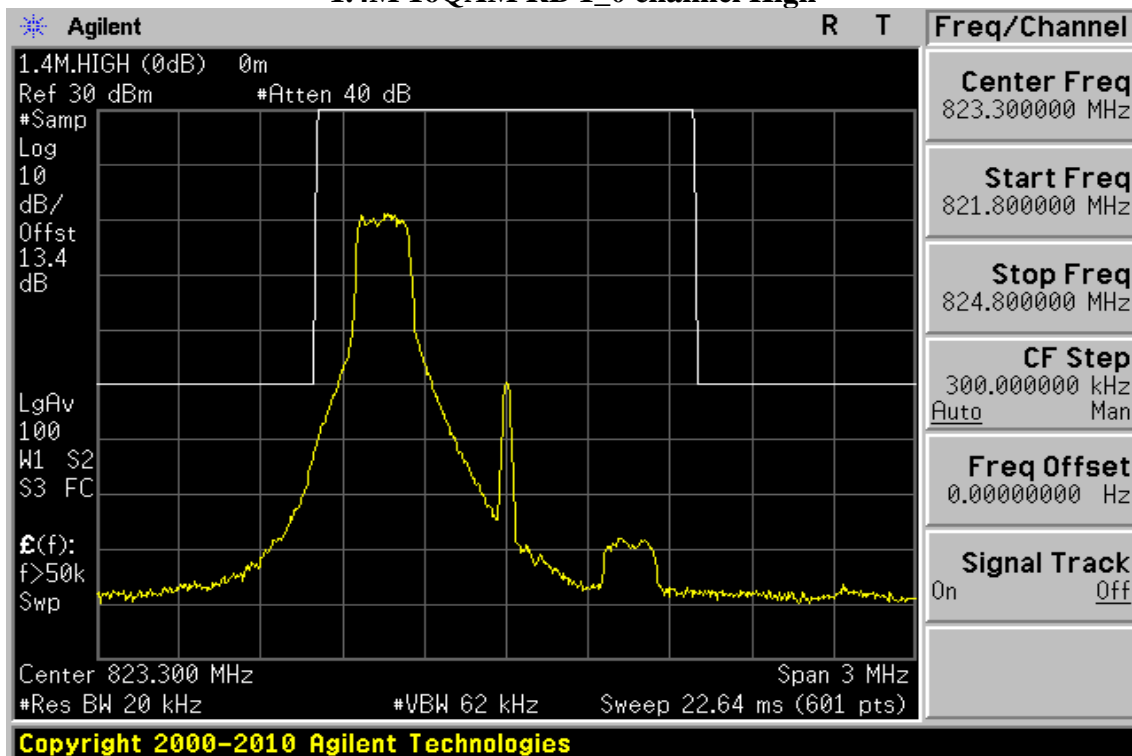
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1.4M QPSK RB 6_0 channel High



1.4M 16QAM RB 1_0 channel High



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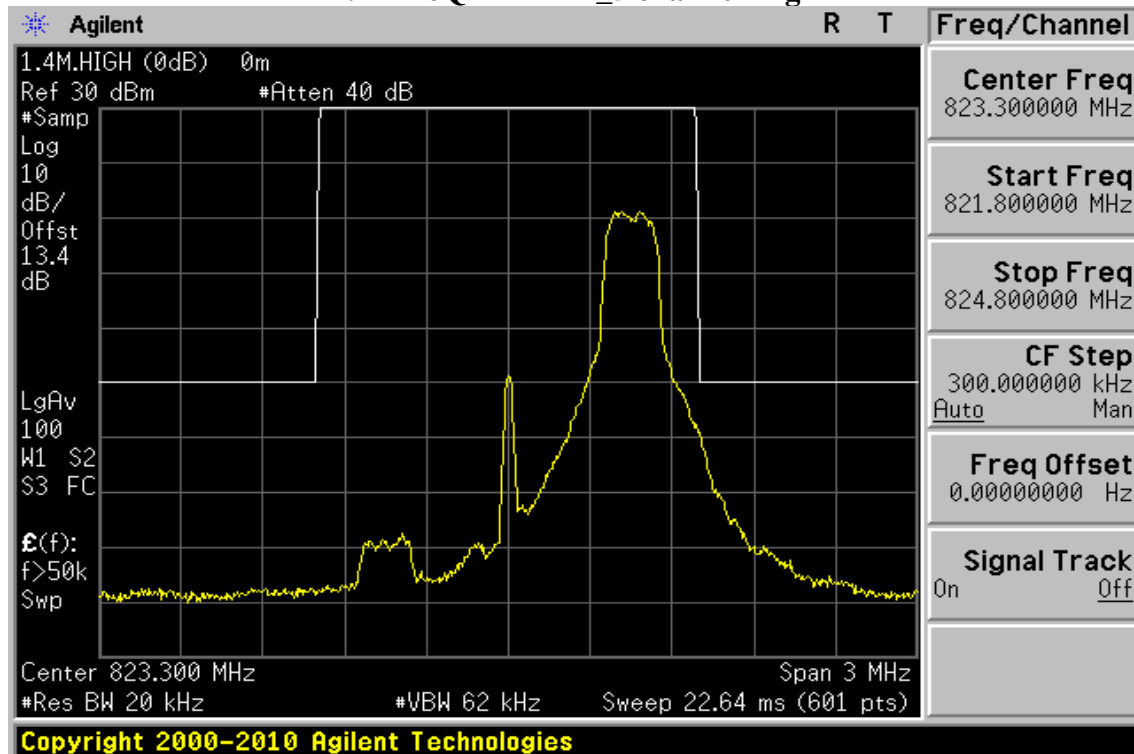
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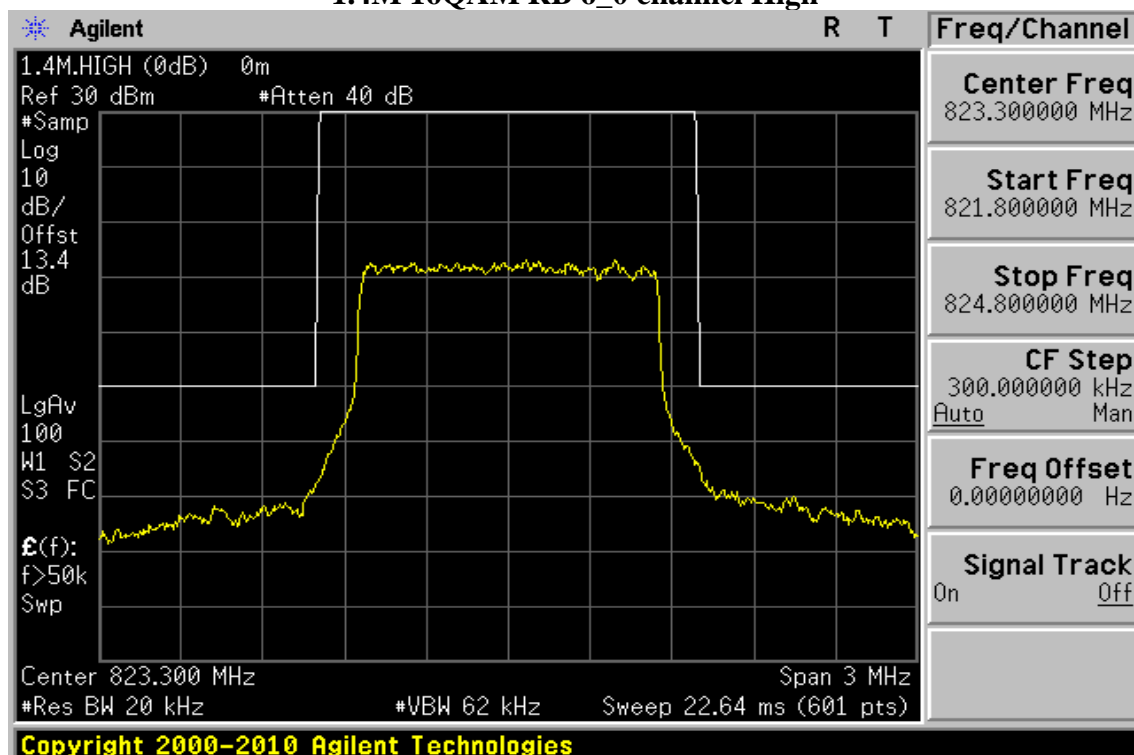
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1.4M 16QAM RB 1_5 channel High



1.4M 16QAM RB 6_0 channel High



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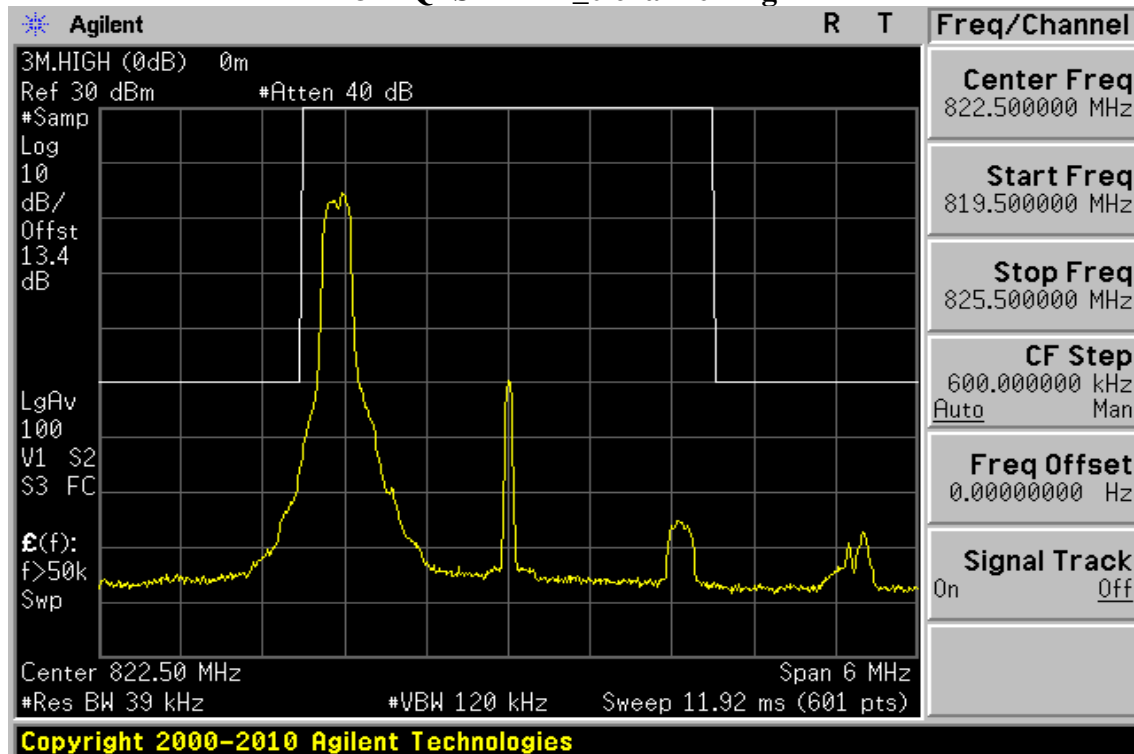
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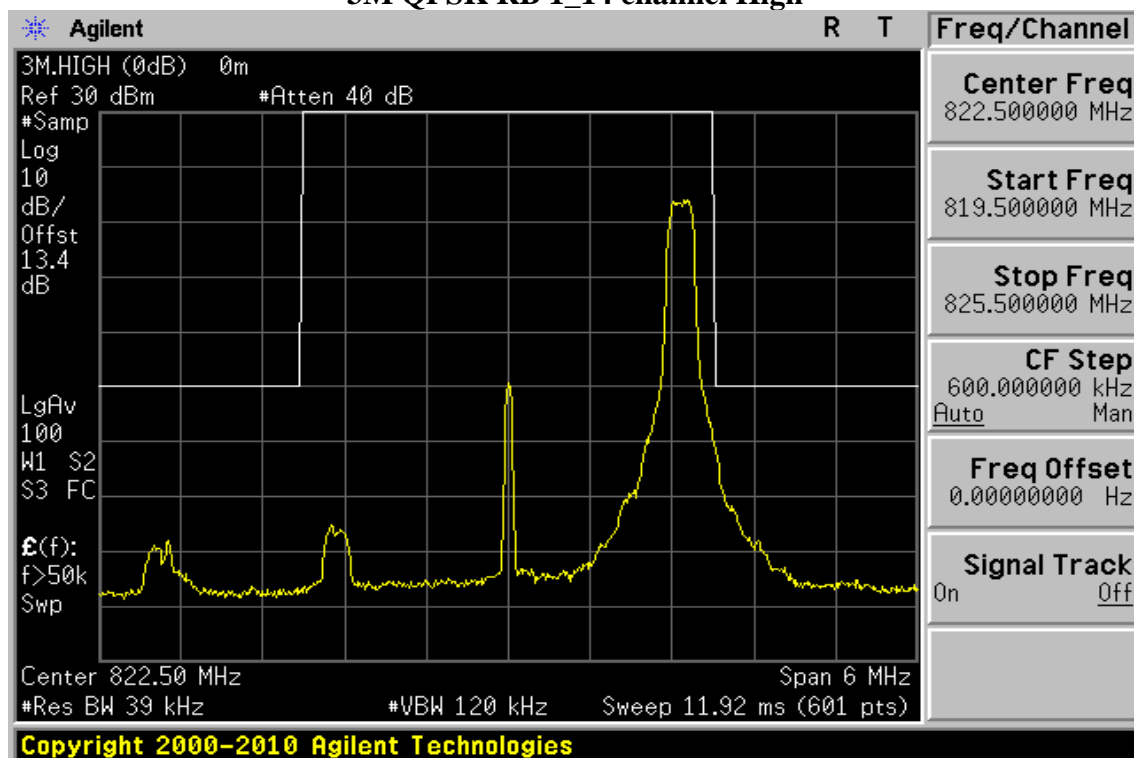
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3M QPSK RB 1_0 channel High



3M QPSK RB 1_14 channel High



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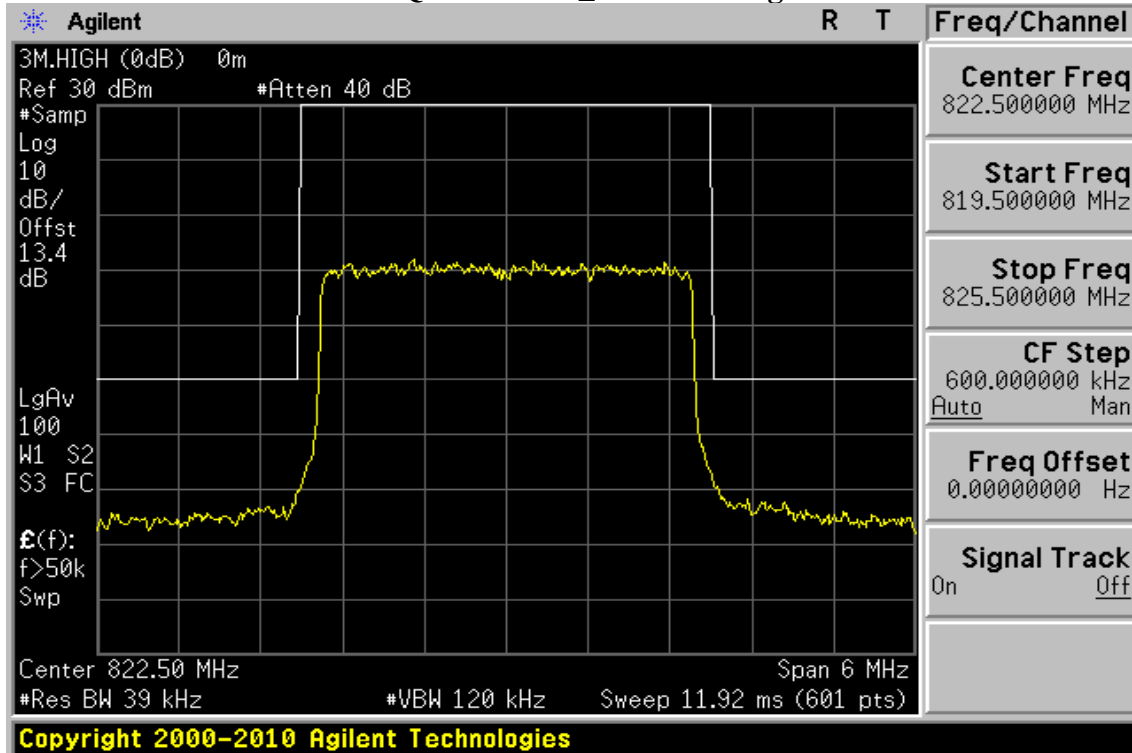
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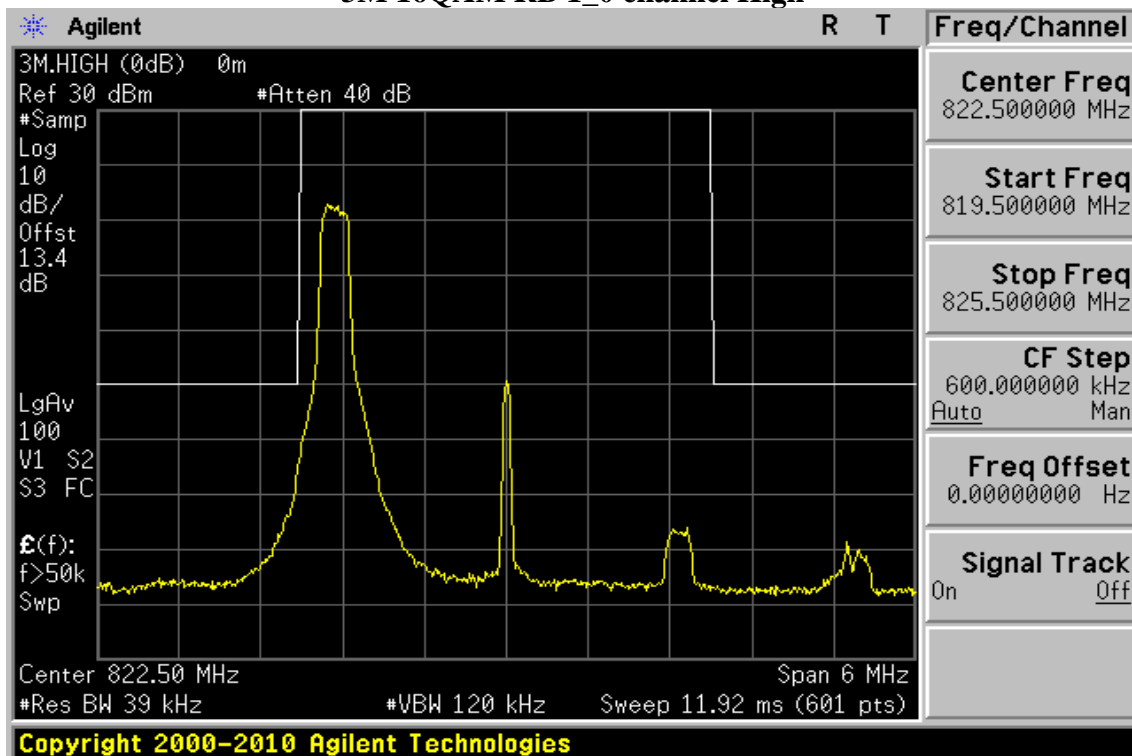
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3M QPSK RB 15_0 channel High



3M 16QAM RB 1_0 channel High



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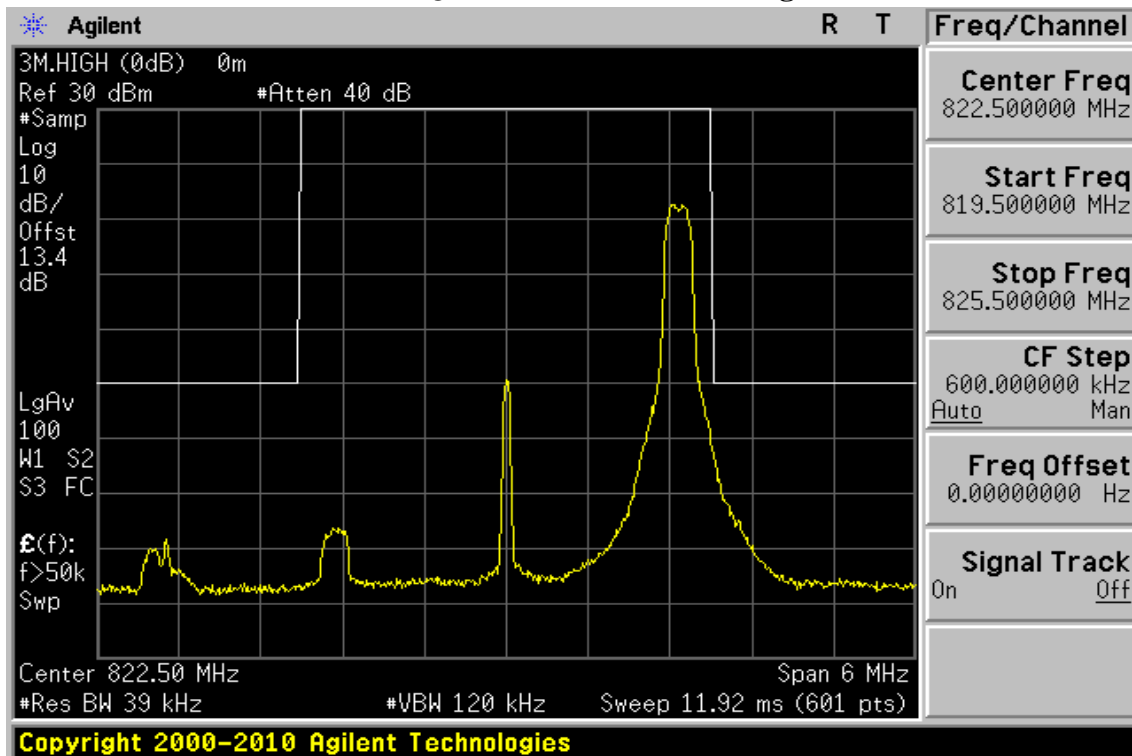
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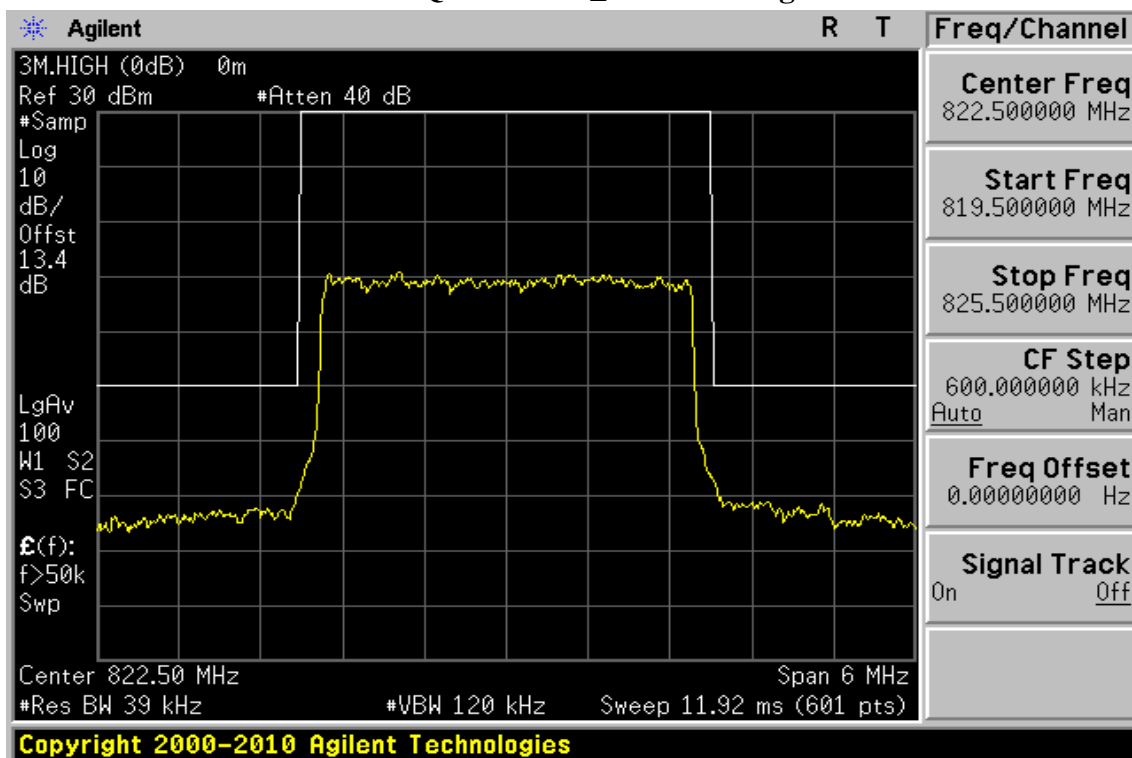
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3M 16QAM RB 1_14 channel High



3M 16QAM RB 15_0 channel High



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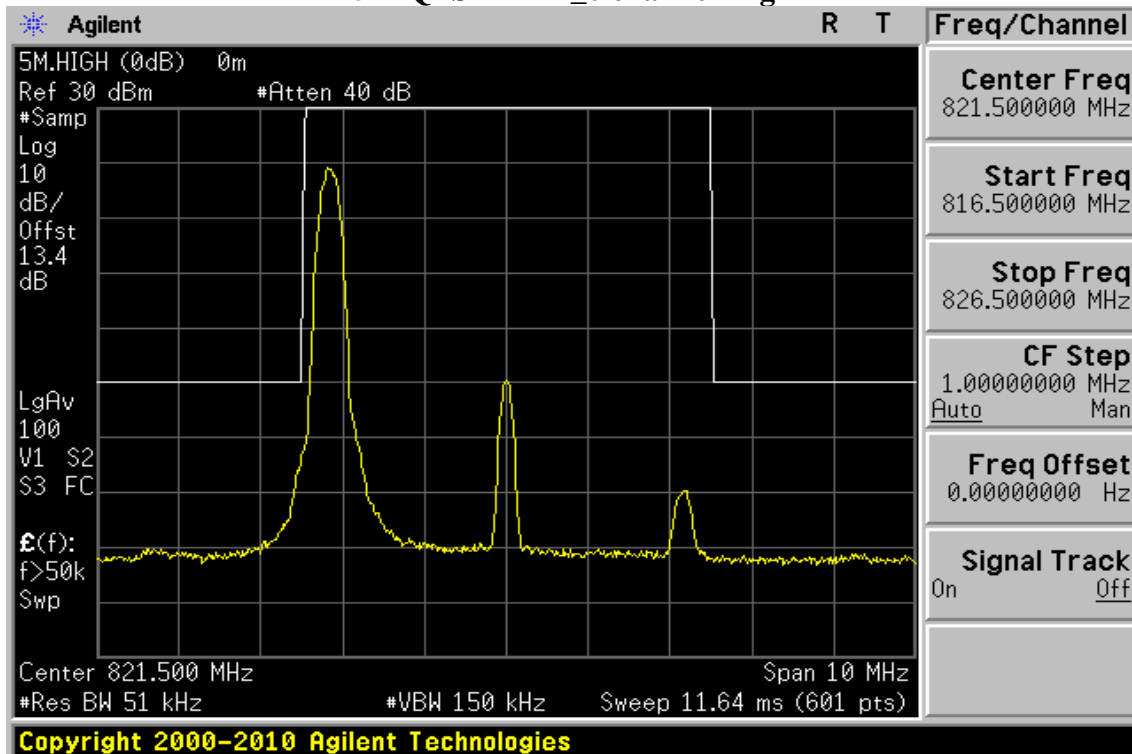
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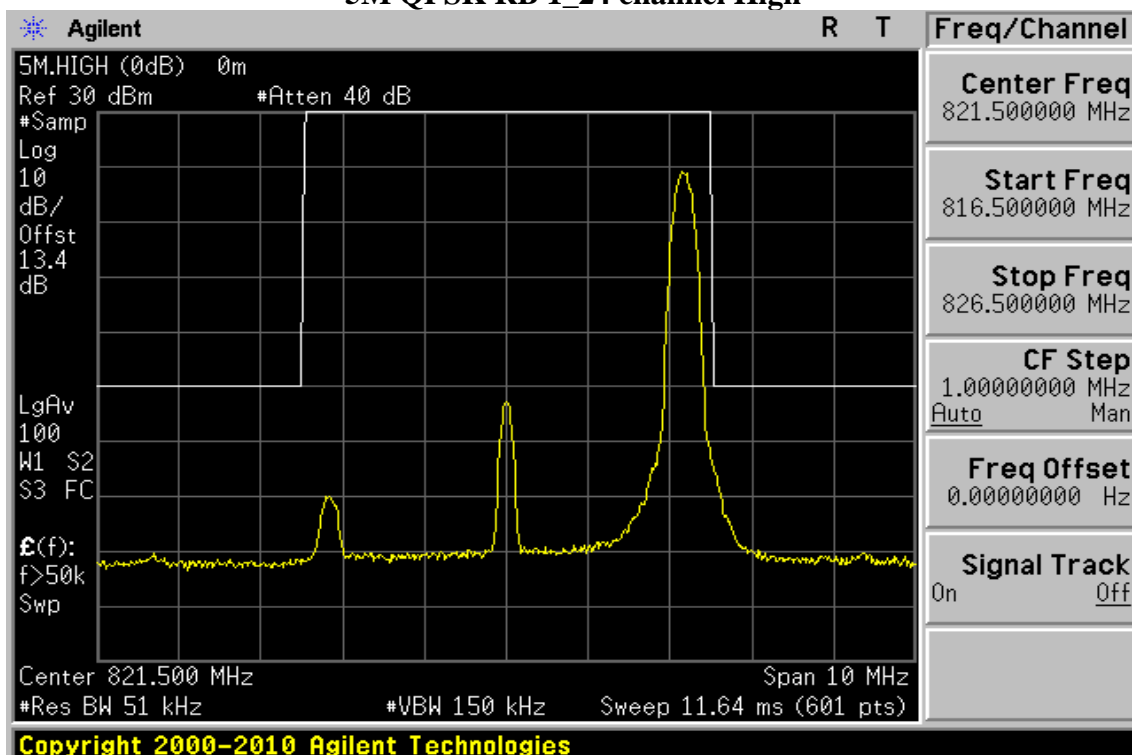
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5M QPSK RB 1_0 channel High



5M QPSK RB 1_24 channel High



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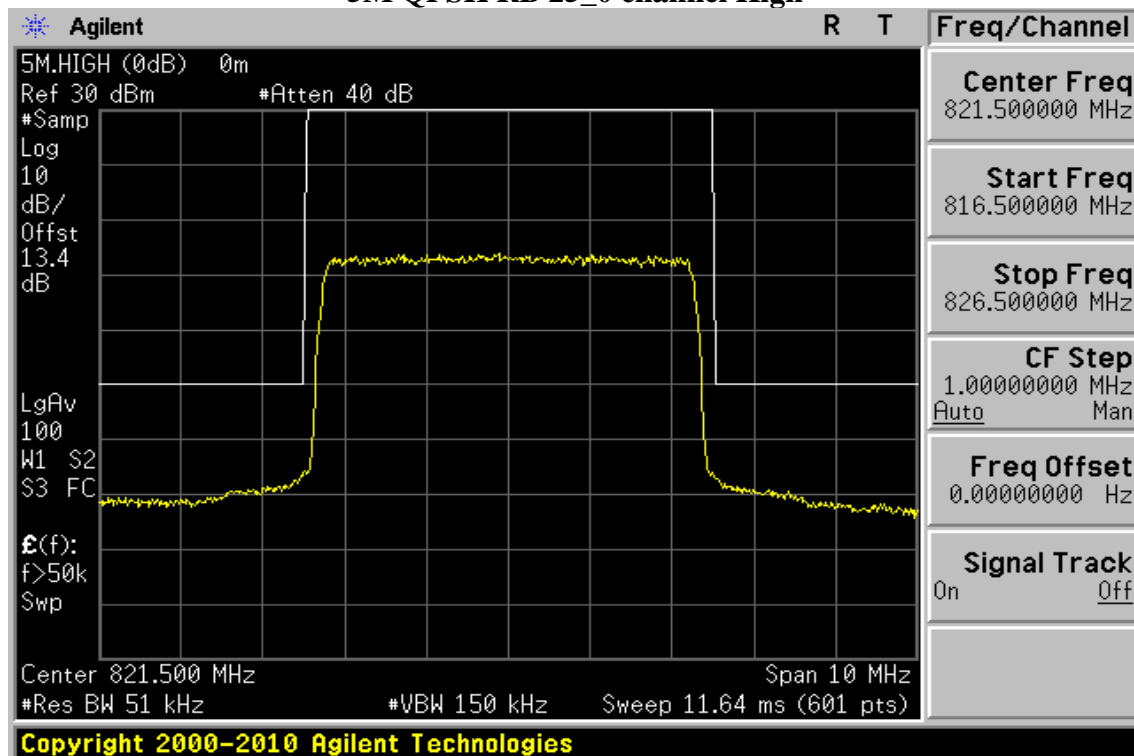
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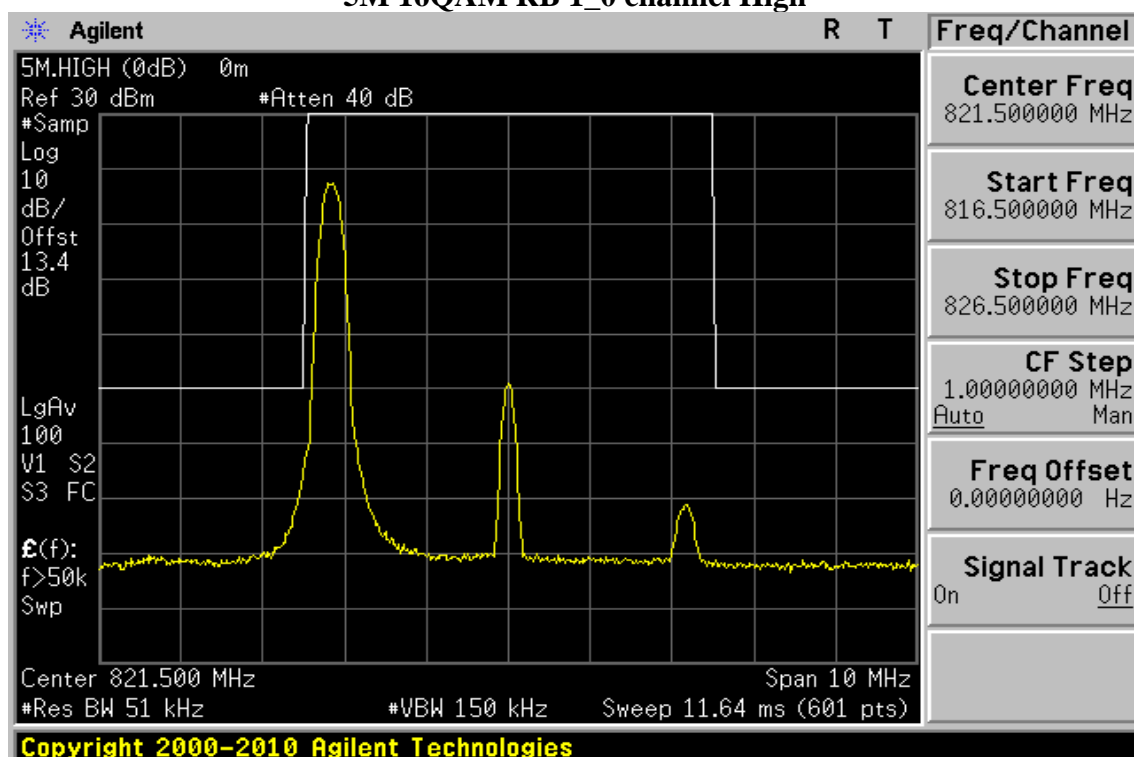
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5M QPSK RB 25_0 channel High



5M 16QAM RB 1_0 channel High



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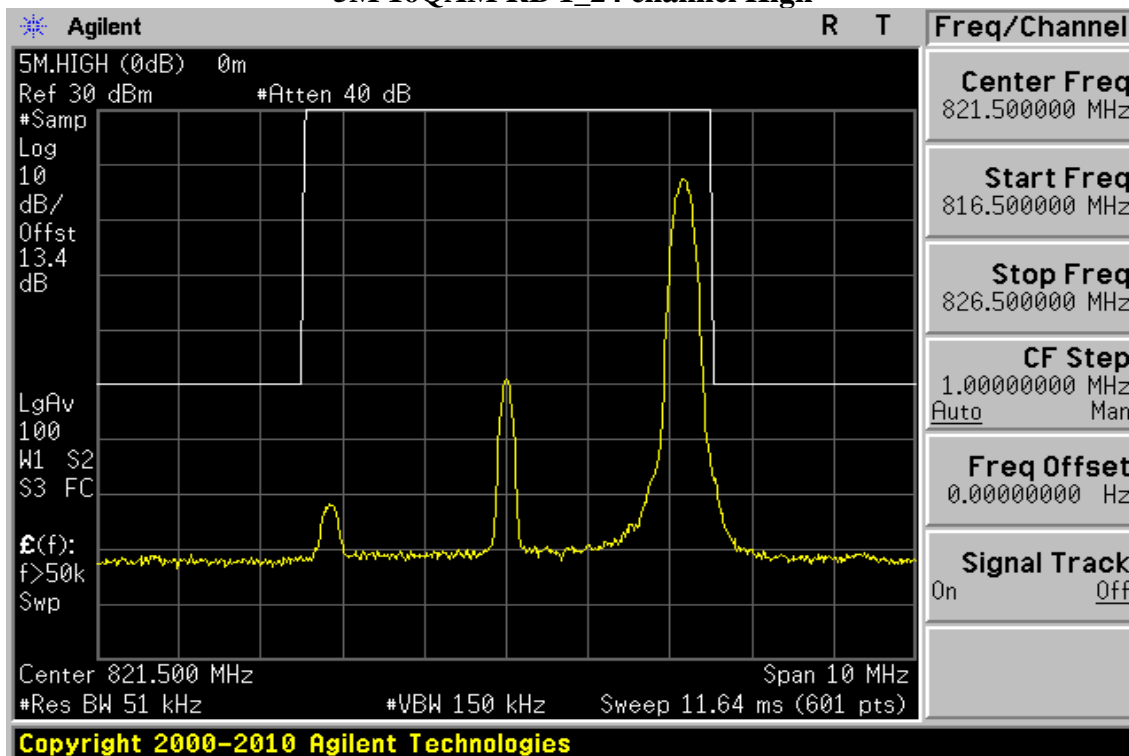
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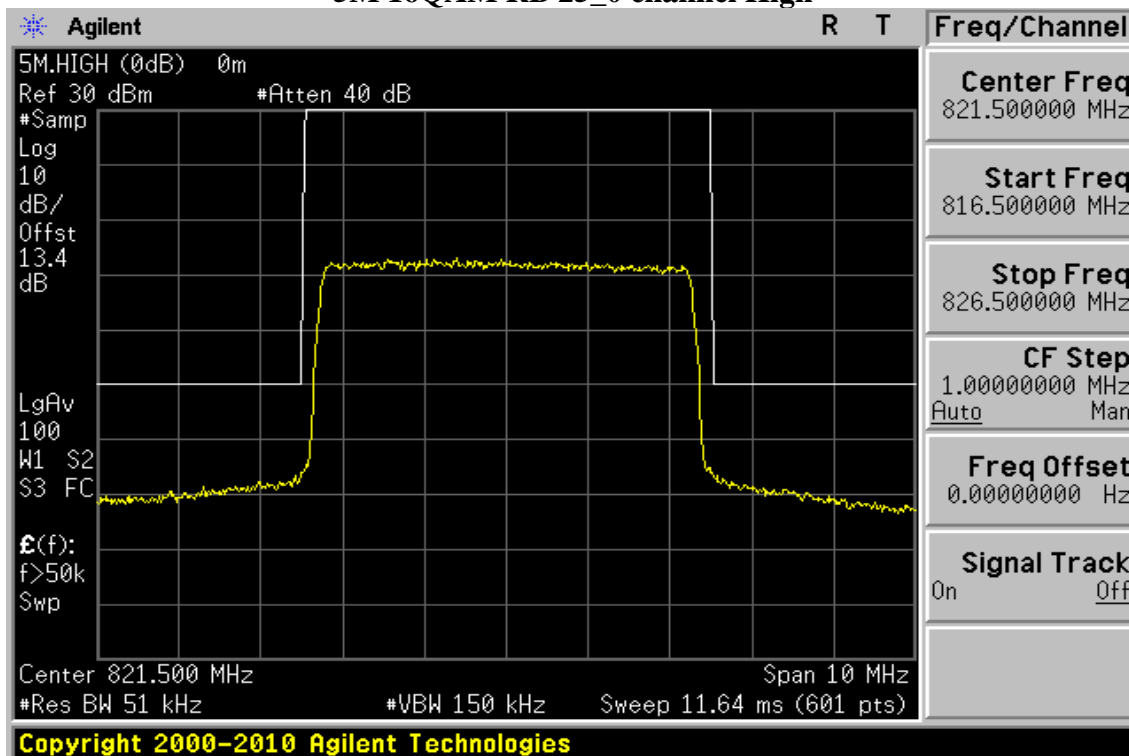
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5M 16QAM RB 1_24 channel High



5M 16QAM RB 25_0 channel High



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APPENDIX 1

MEASUREMENT PLOT OF RADIATED SPURIOUS EMISSION

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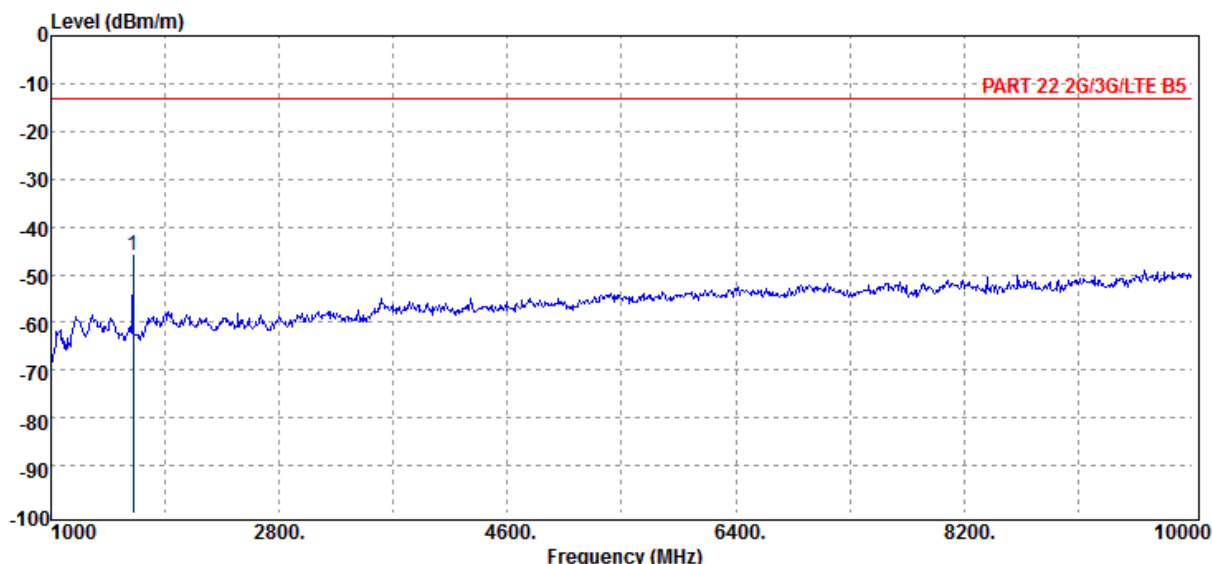
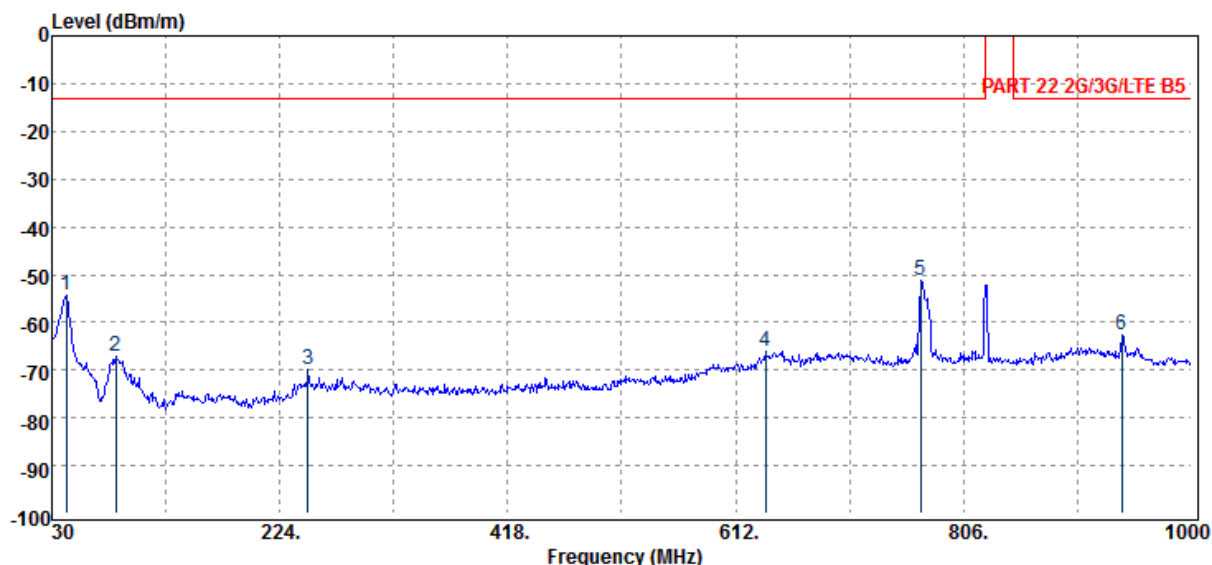
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Radiated Spurious Emission Measurement Result: CDMA 2000 EVDO Cellular (BC0) Mode

Operation Band	:EVDO BC0	Test Date	:2014-06-11
ARFCN	:CH 1013	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:824.7 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



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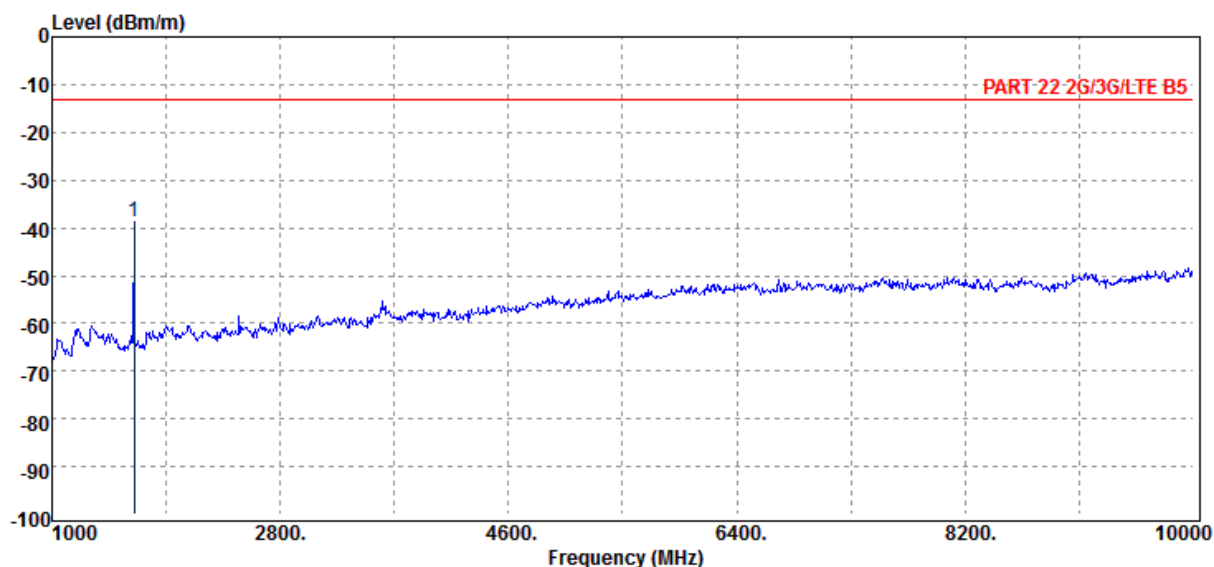
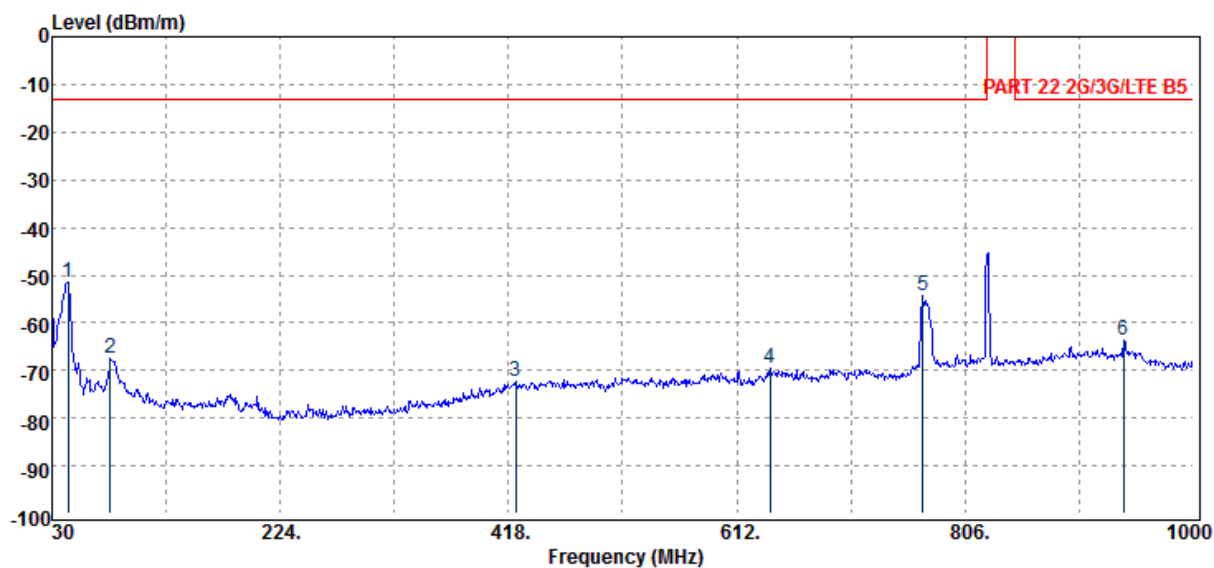
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Operation Band :EVDO BC0
ARFCN :CH 1013
Fundamental Frequency :824.7 MHz
Operation Mode :TX LOW
EUT Pol. :E2 Plane

Test Date :2014-06-11
Temp./Humi. :19.6 deg_C / 65 RH
Engineer :Curry

Measurement Antenna Pol. :HORIZONTAL



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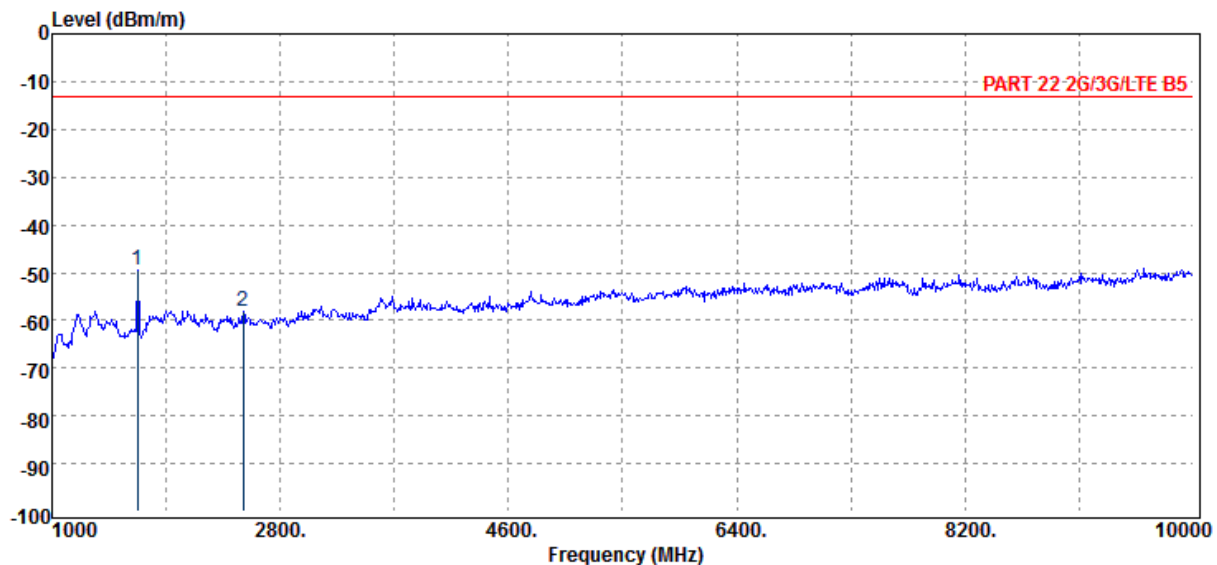
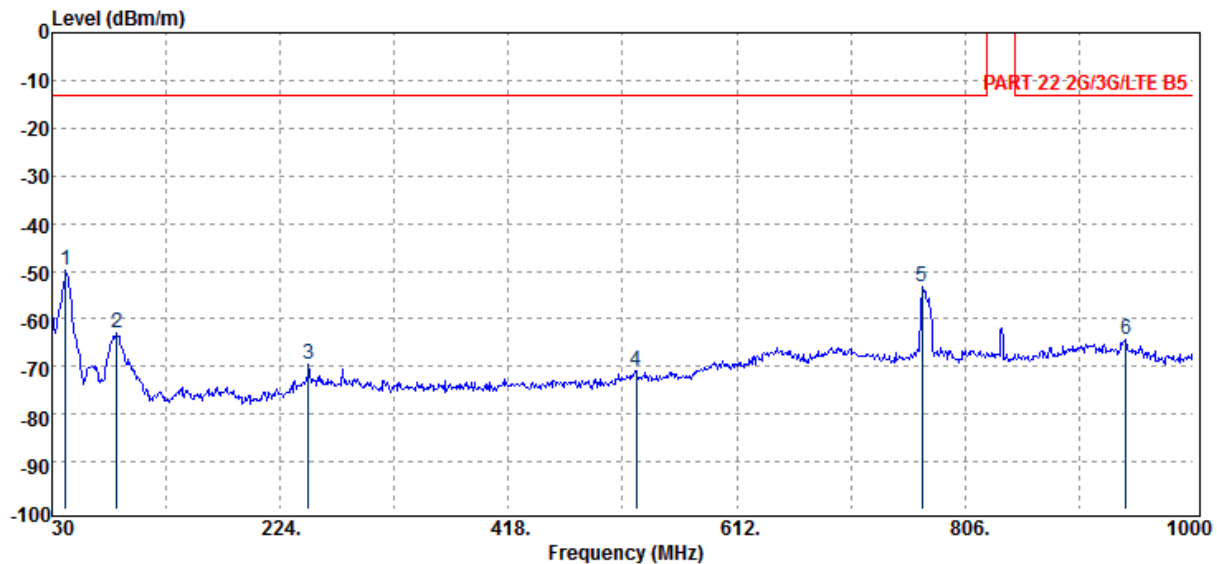
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Operation Band	:EVDO BC0	Test Date	:2014-06-11
ARFCN	:CH 384	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:836.52 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



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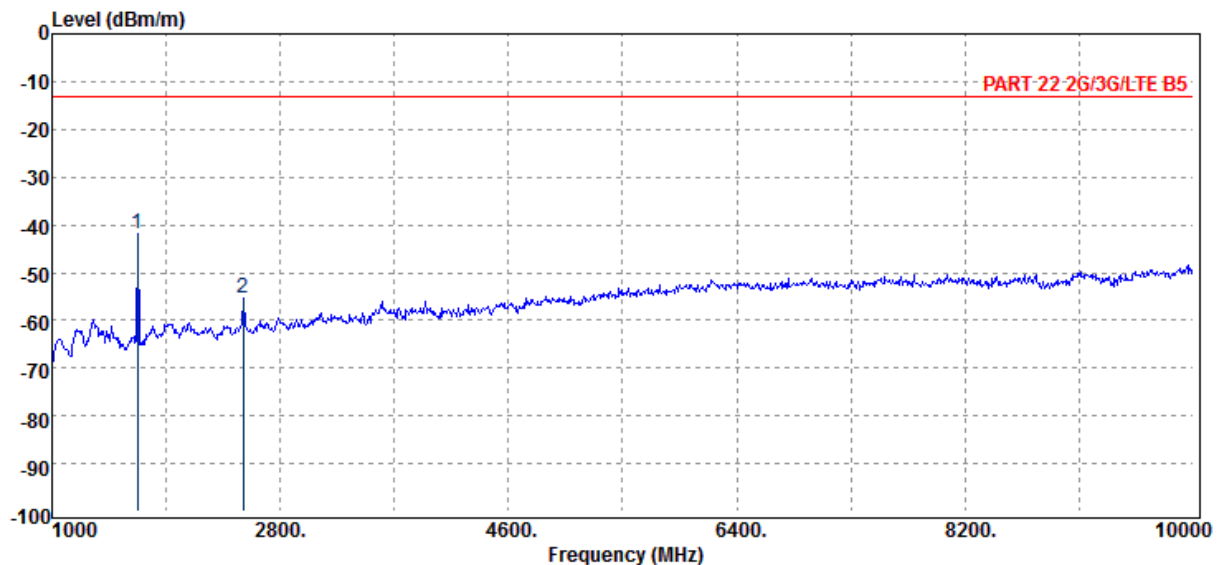
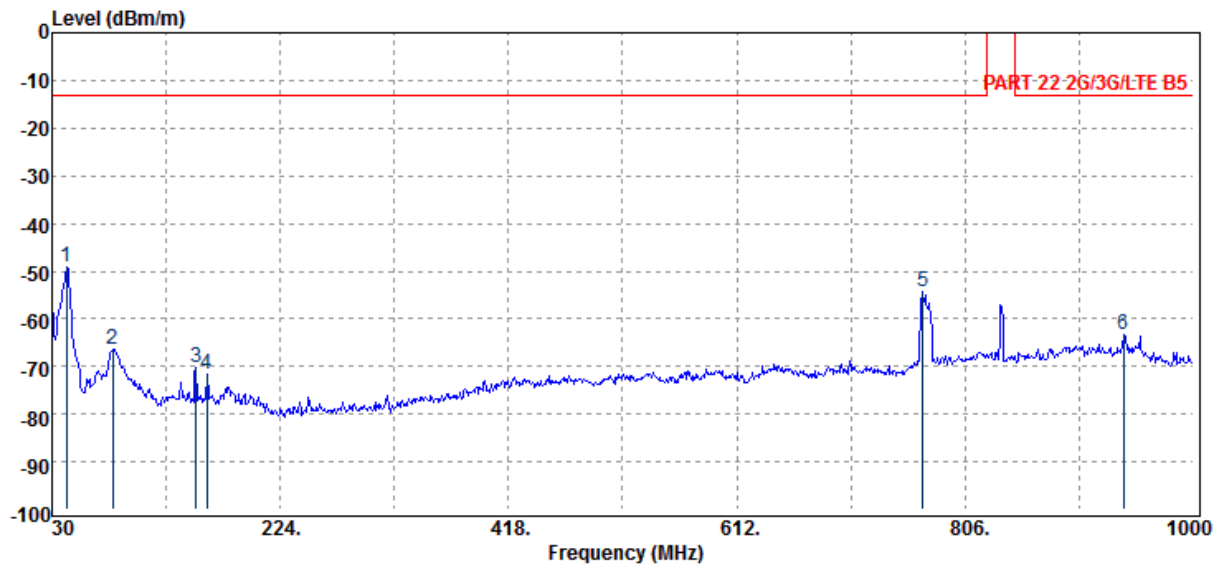
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Operation Band	:EVDO BC0	Test Date	:2014-06-11
ARFCN	:CH 384	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:836.52 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



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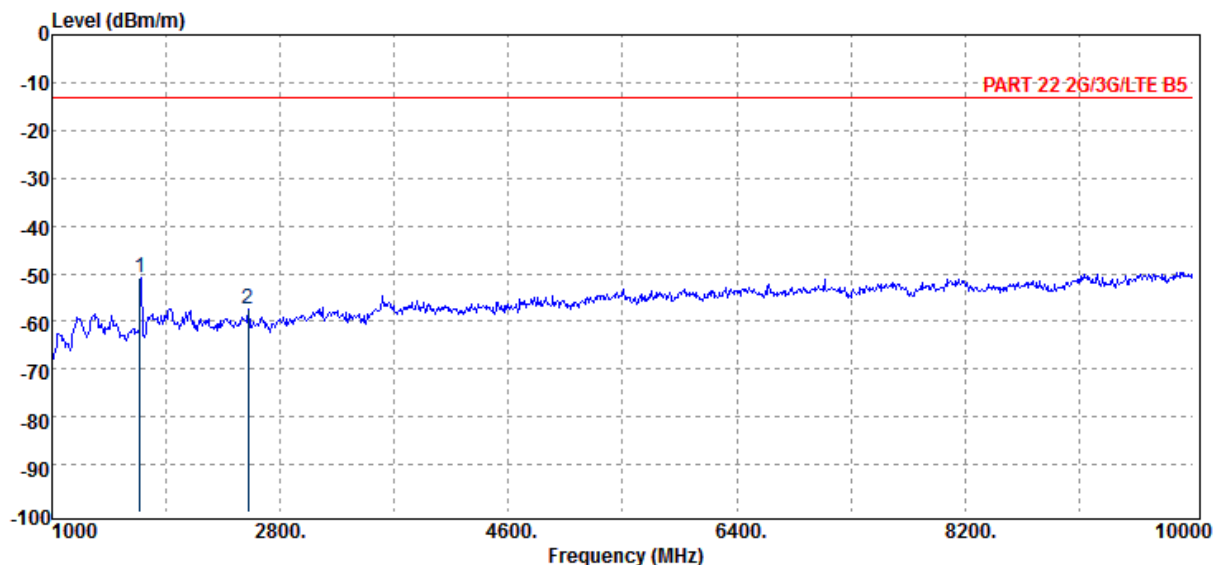
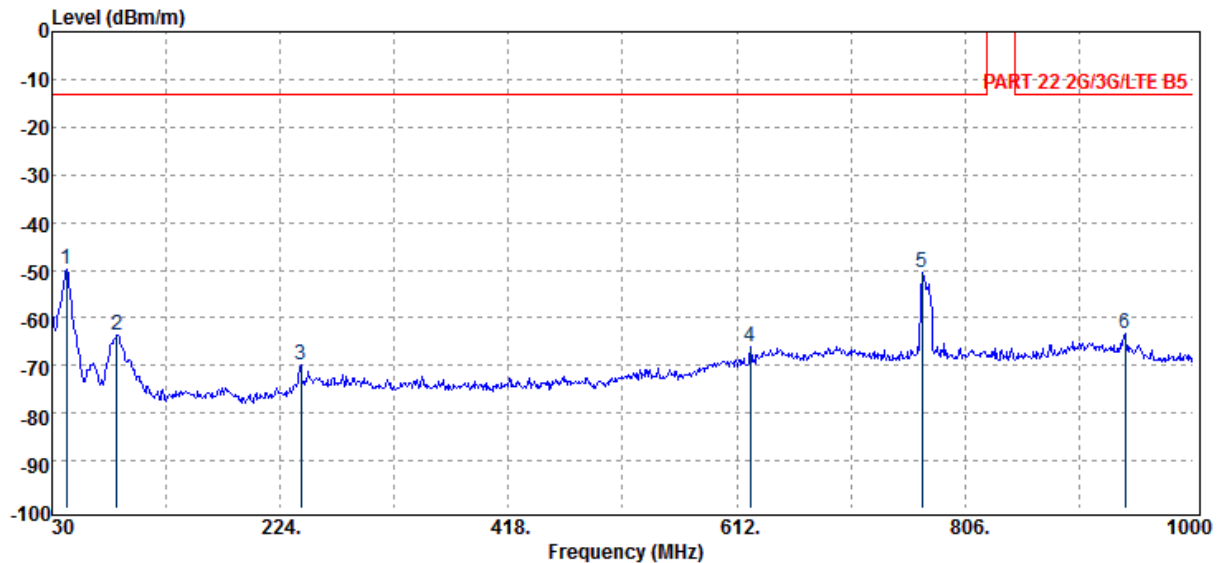
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Operation Band	:EVDO BC0	Test Date	:2014-06-11
ARFCN	:CH 777	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:848.31 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



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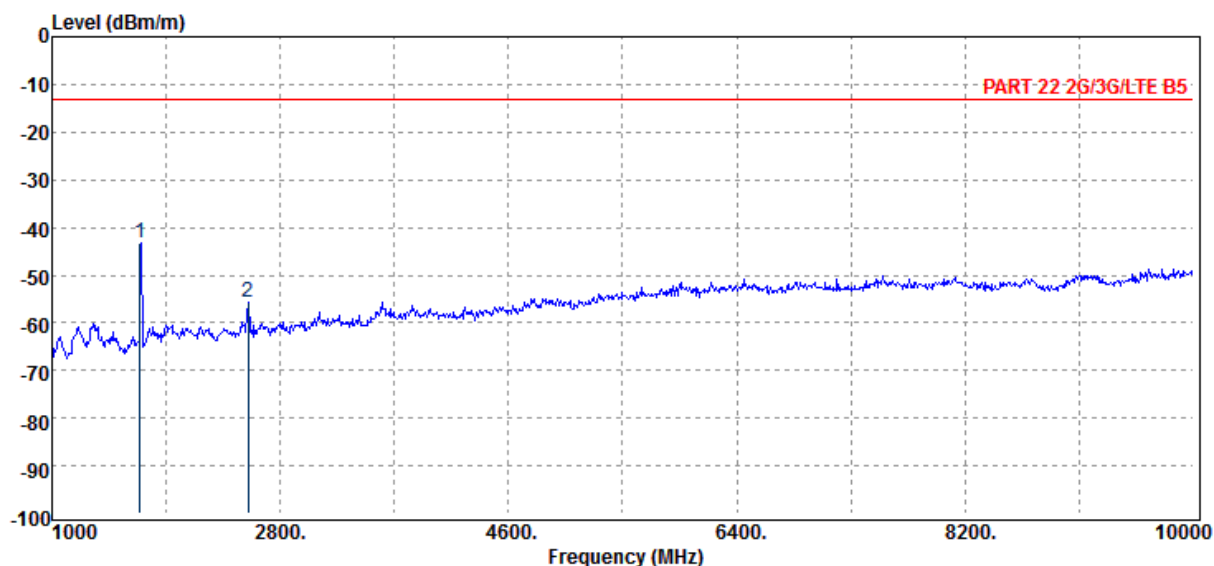
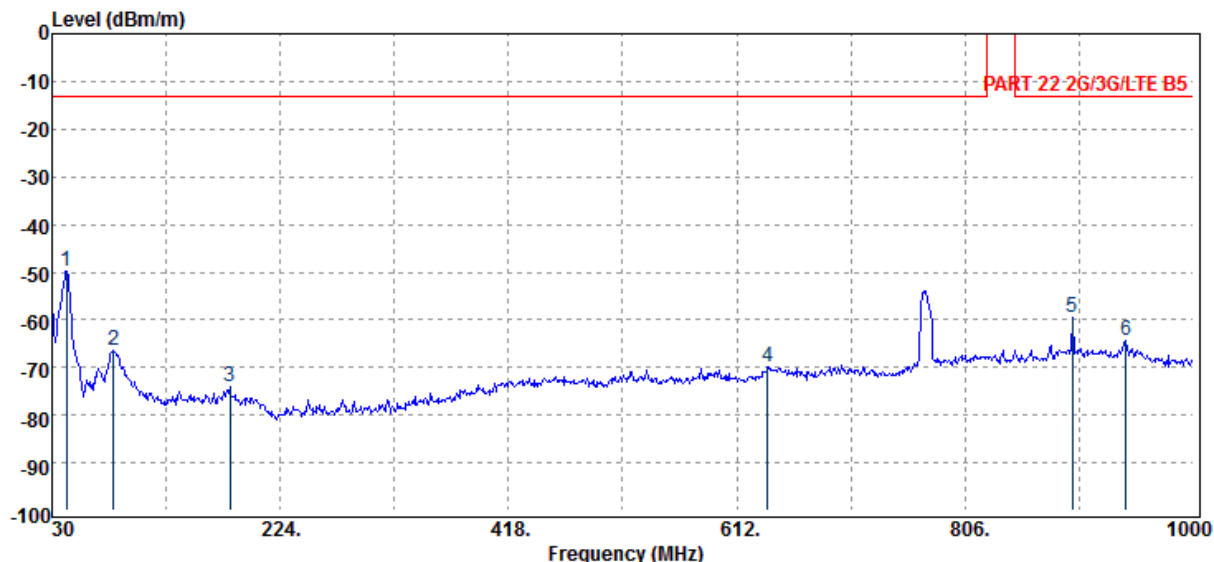
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Operation Band	:EVDO BC0	Test Date	:2014-06-11
ARFCN	:CH 777	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:848.31 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



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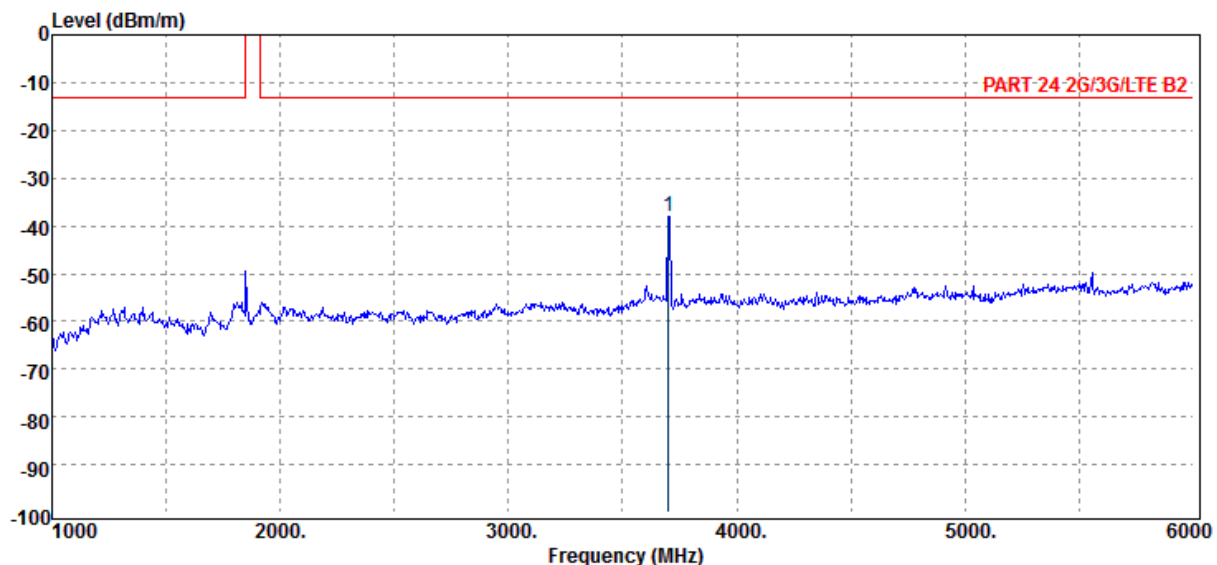
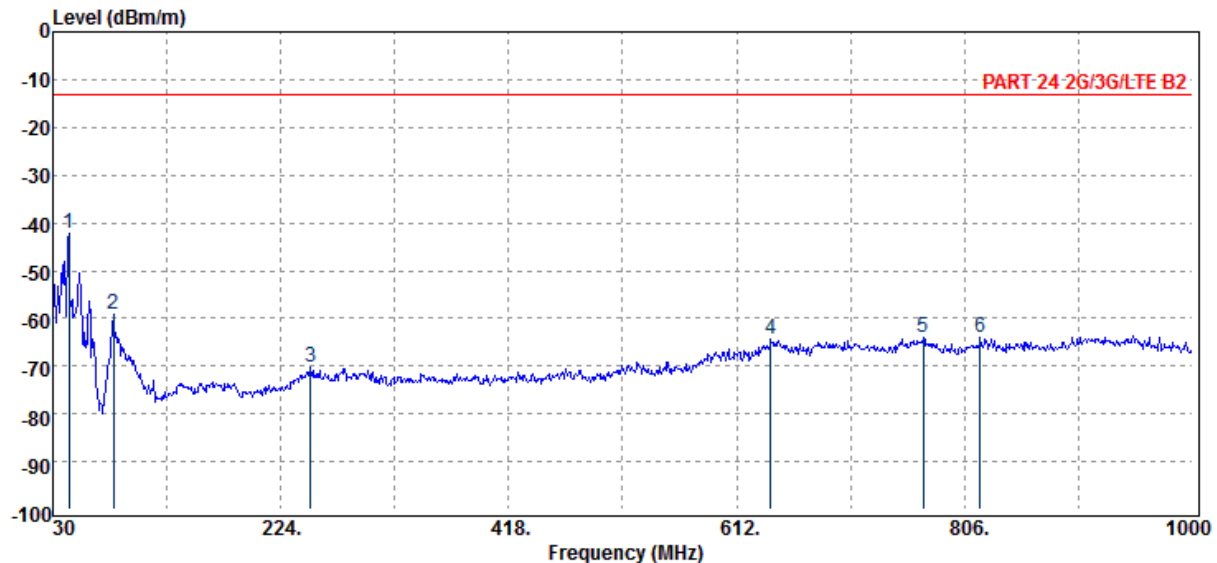
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Radiated Spurious Emission Measurement Result: CDMA 2000 EVDO PCS (BC1) Mode

Operation Band	:EVDO BC1	Test Date	:2014-06-11
ARFCN	:CH 25	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:1851.25 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



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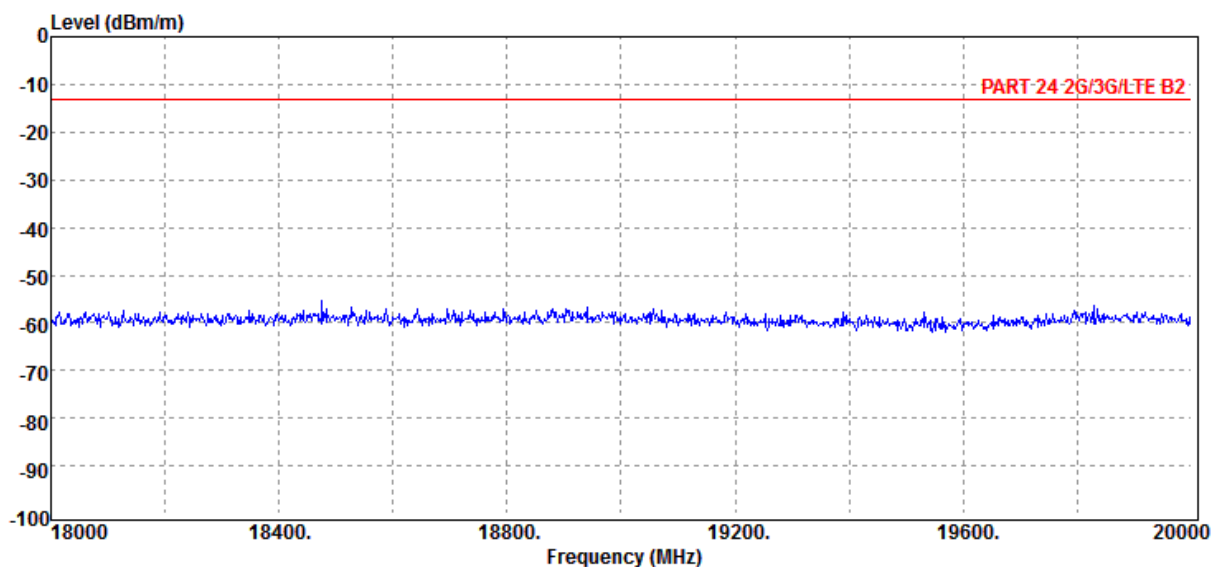
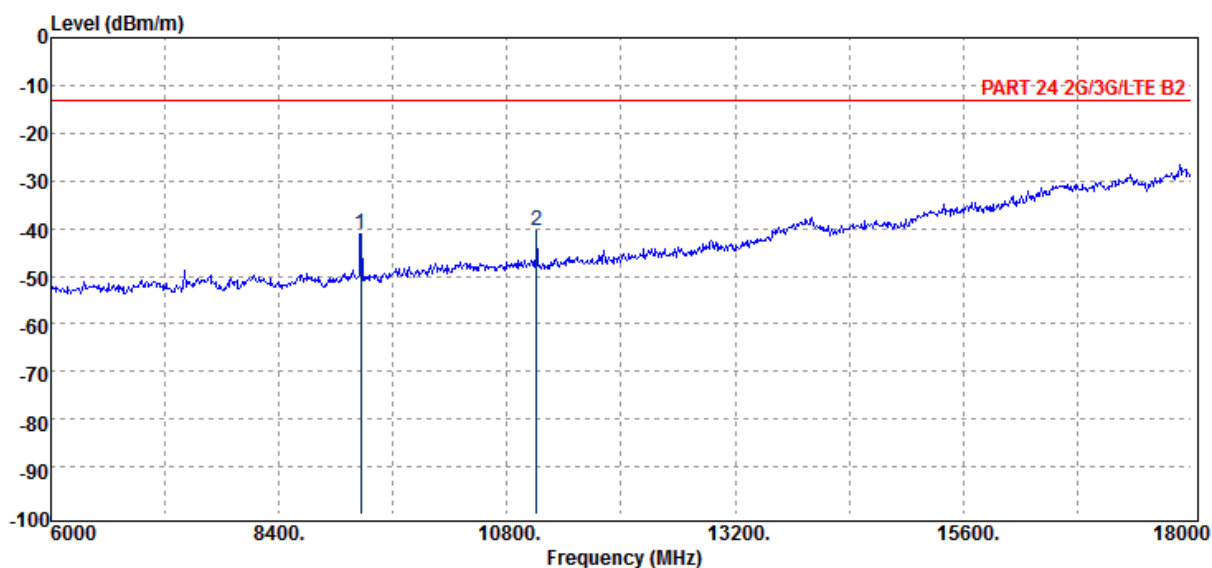
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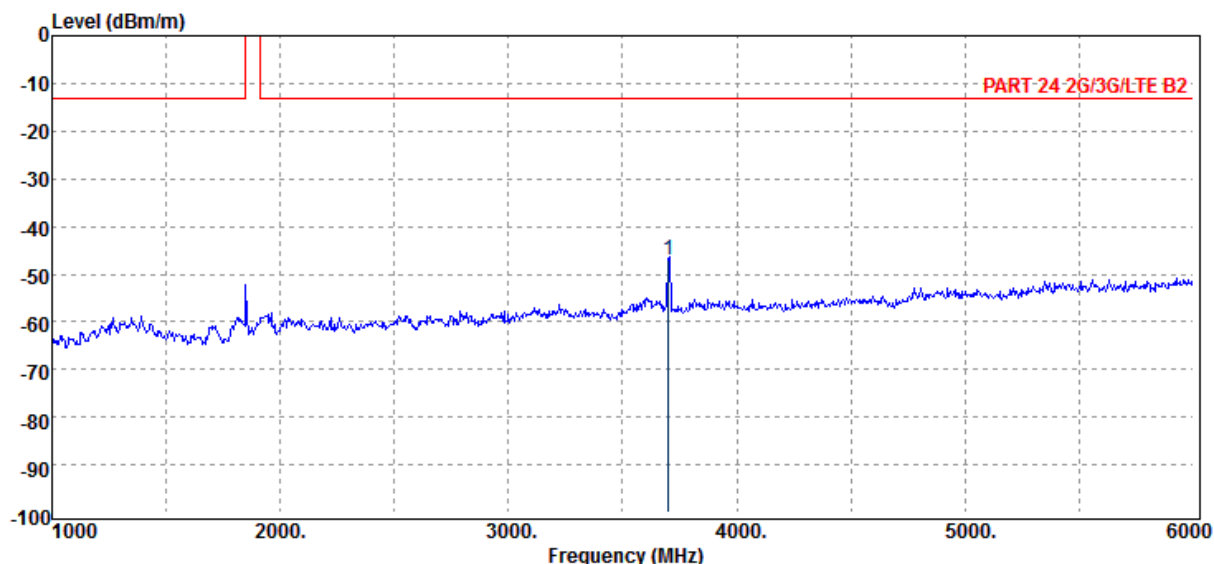
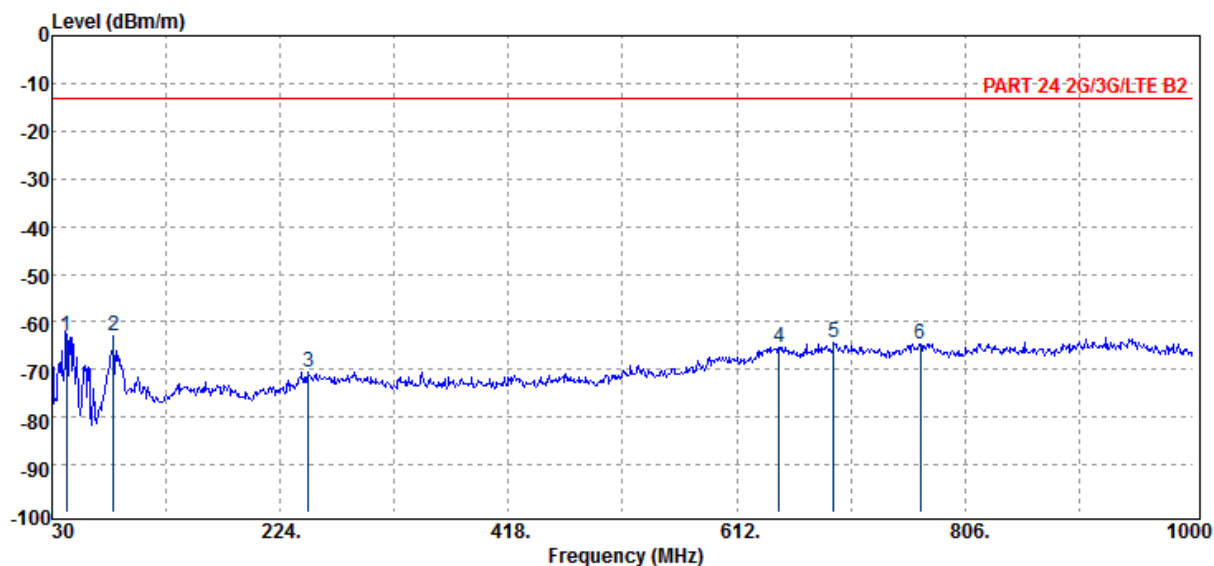
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Operation Band	:EVDO BC1	Test Date	:2014-06-11
ARFCN	:CH 25	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:1851.25 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



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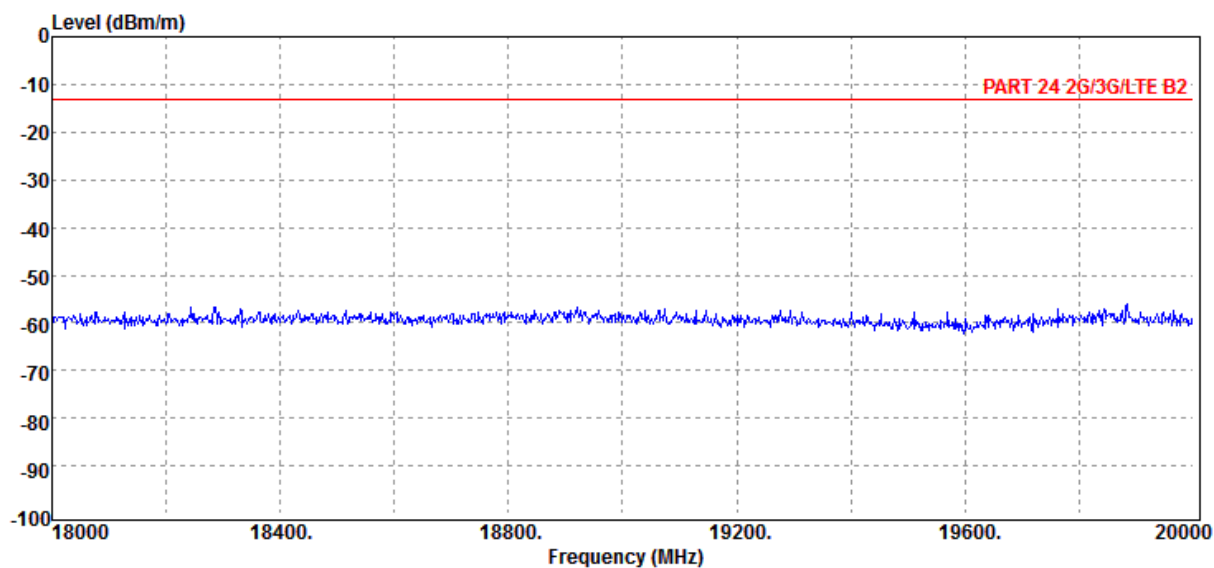
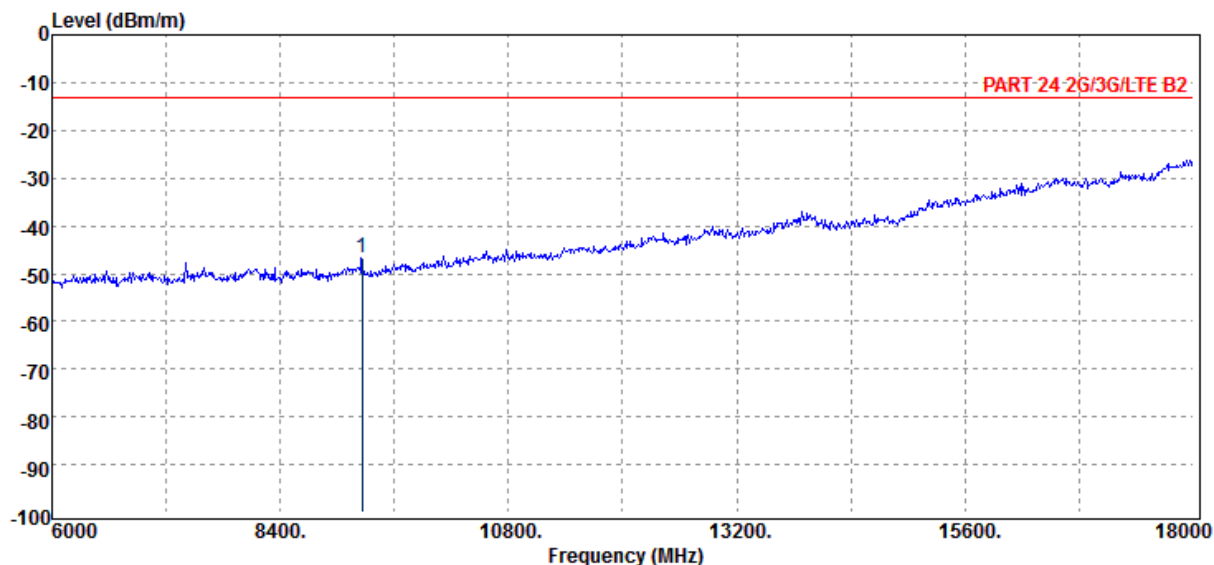
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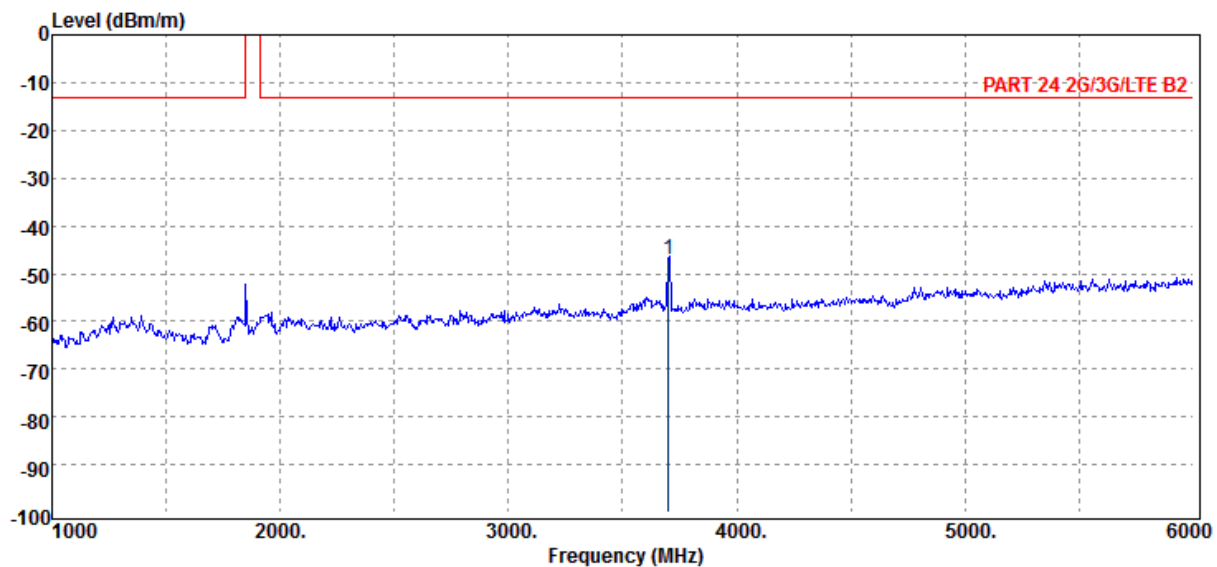
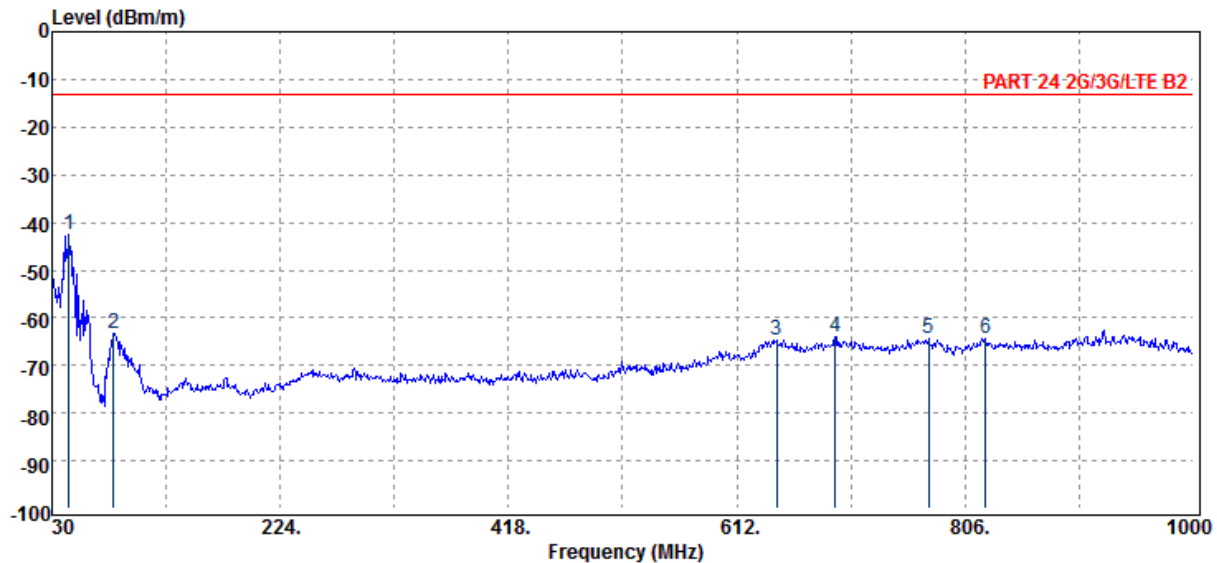
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Operation Band	:EVDO BC1	Test Date	:2014-06-11
ARFCN	:CH 600	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:1880 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



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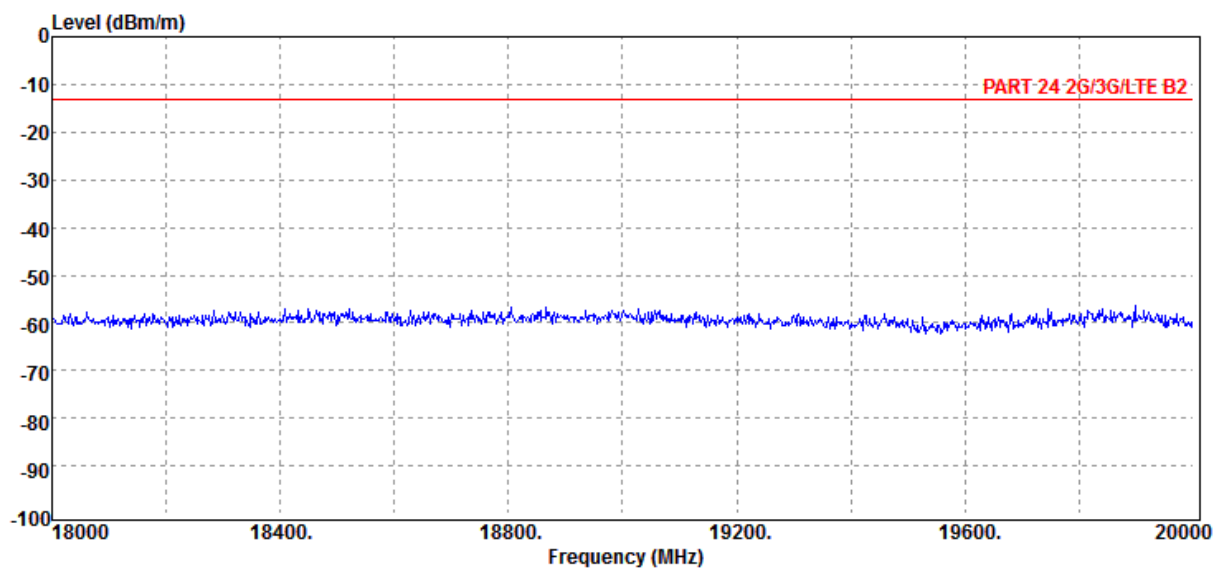
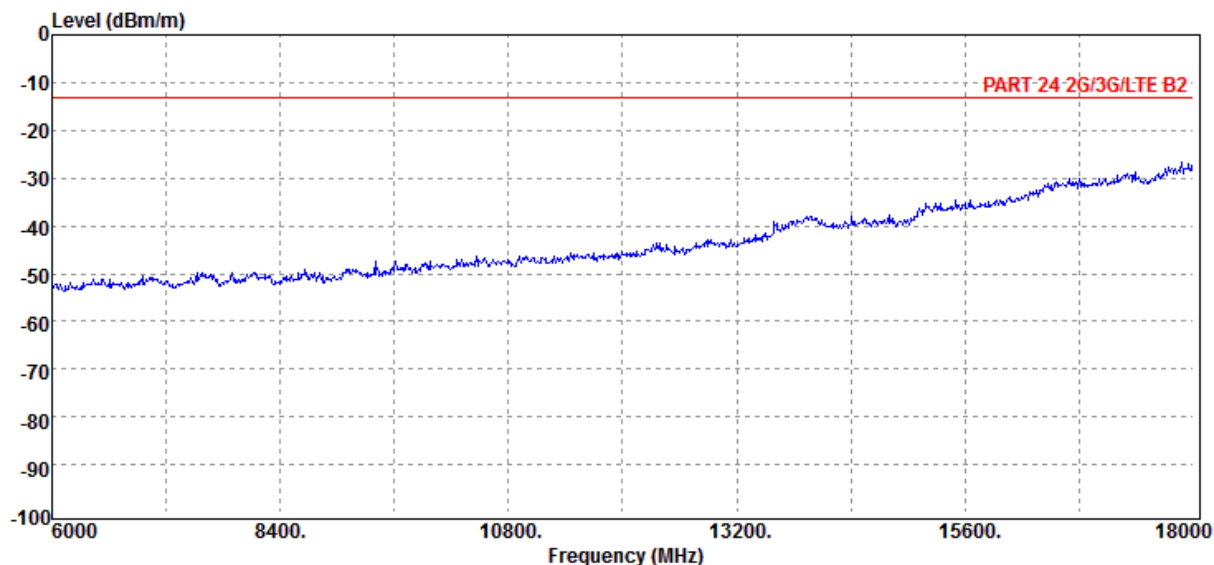
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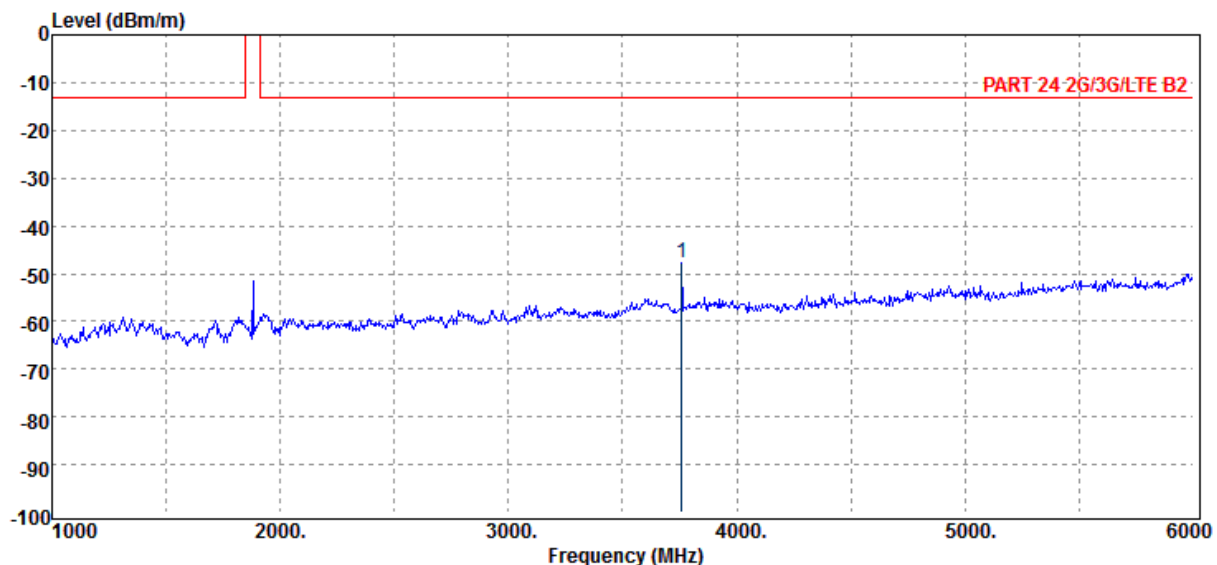
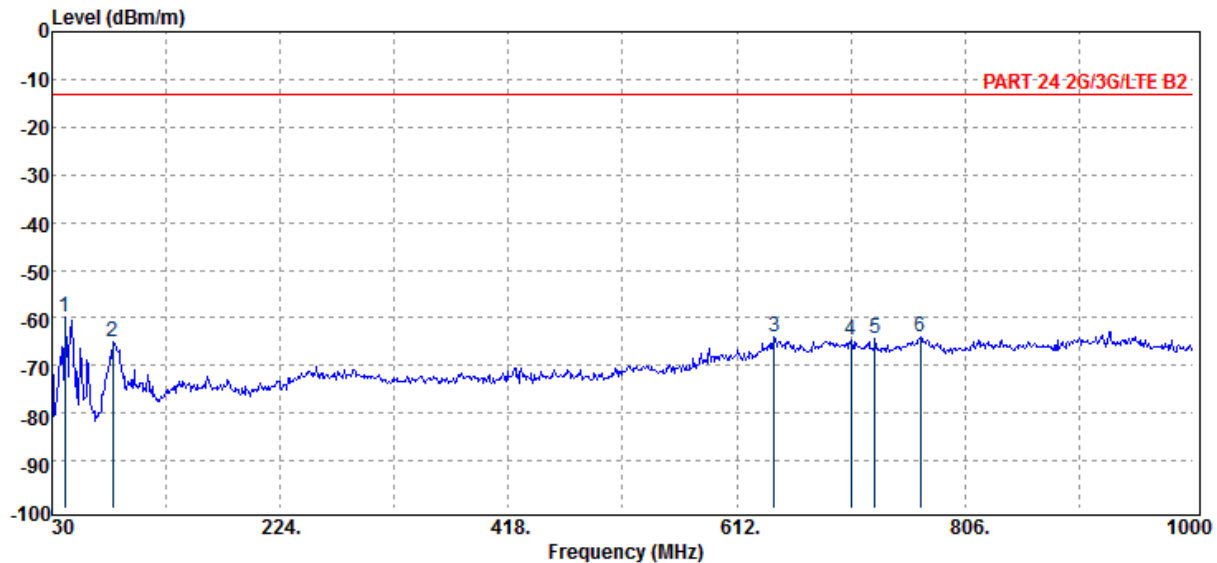
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Operation Band	:EVDO BC1	Test Date	:2014-06-11
ARFCN	:CH 600	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:1880 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



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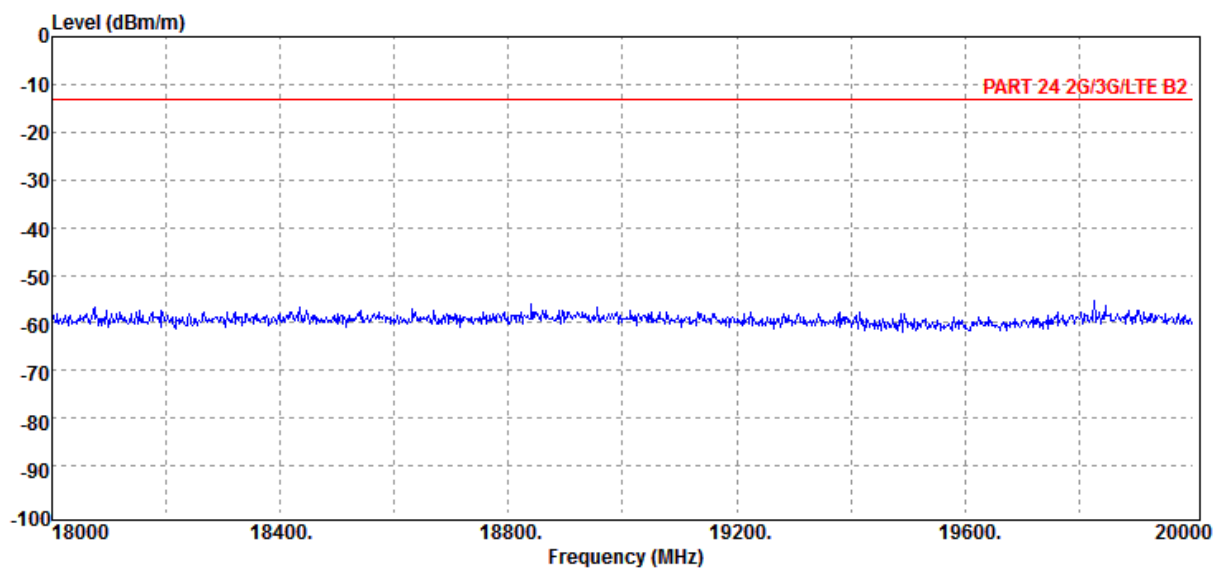
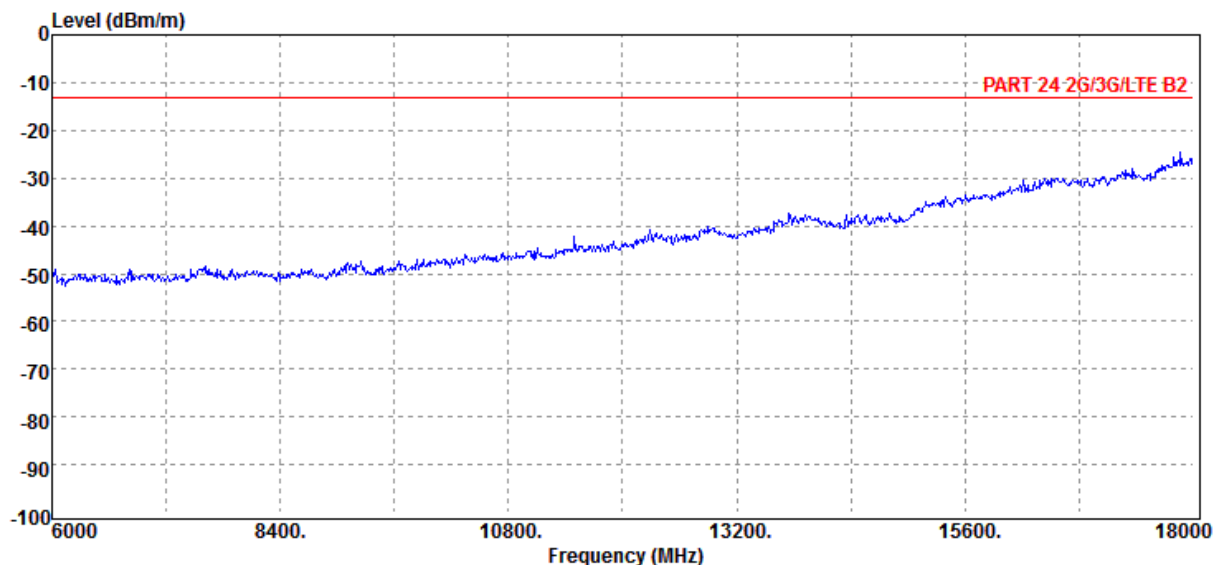
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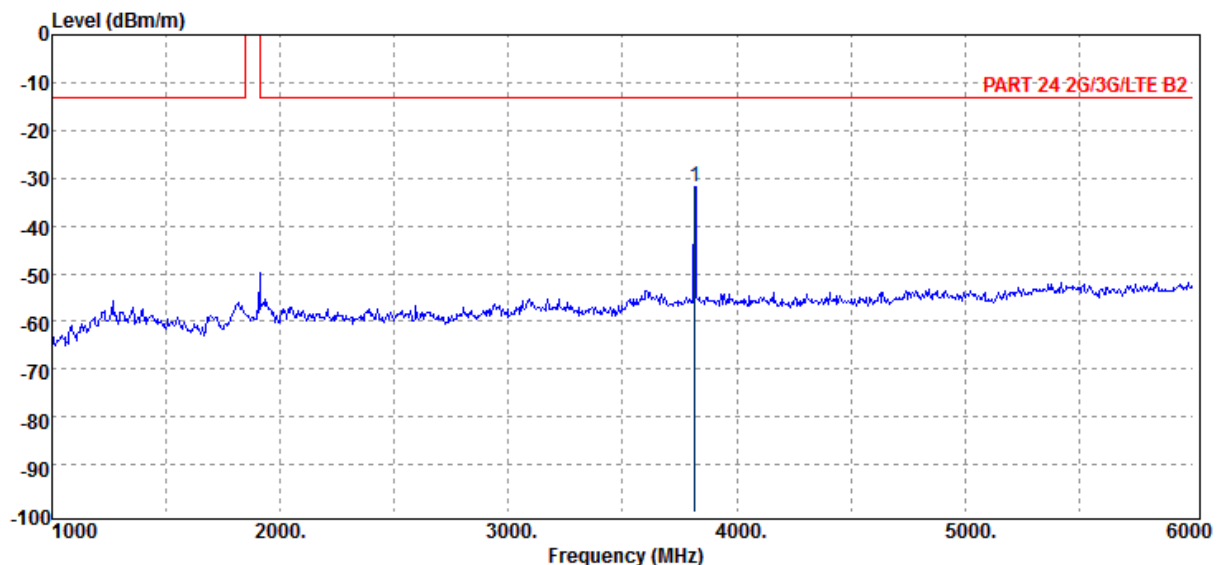
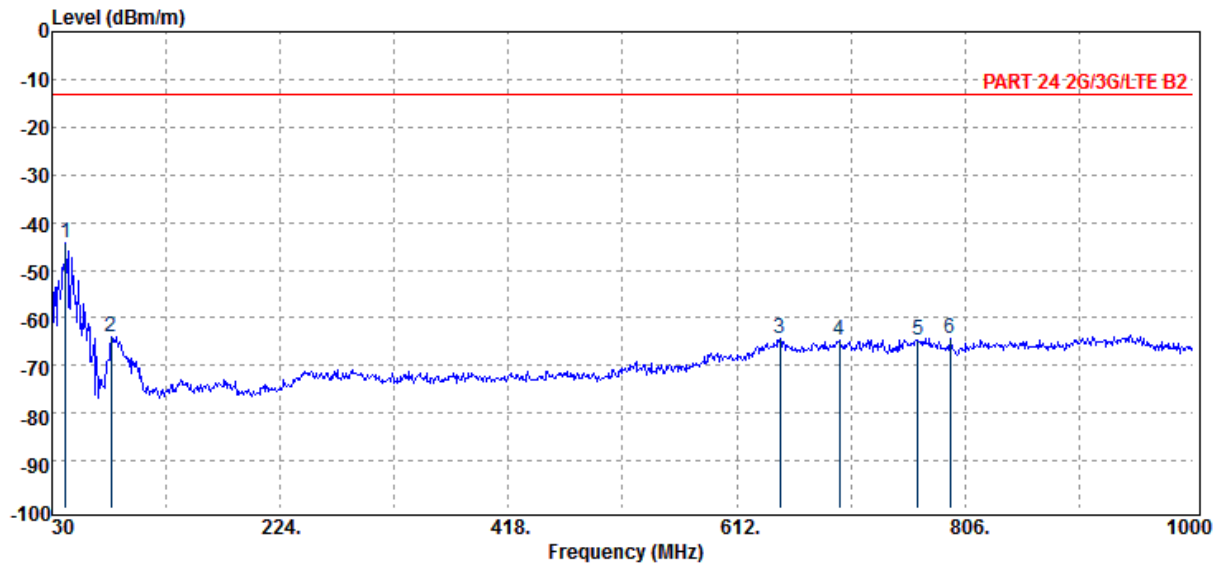
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Operation Band	:EVDO BC1	Test Date	:2014-06-11
ARFCN	:CH 1175	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:1908.75 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



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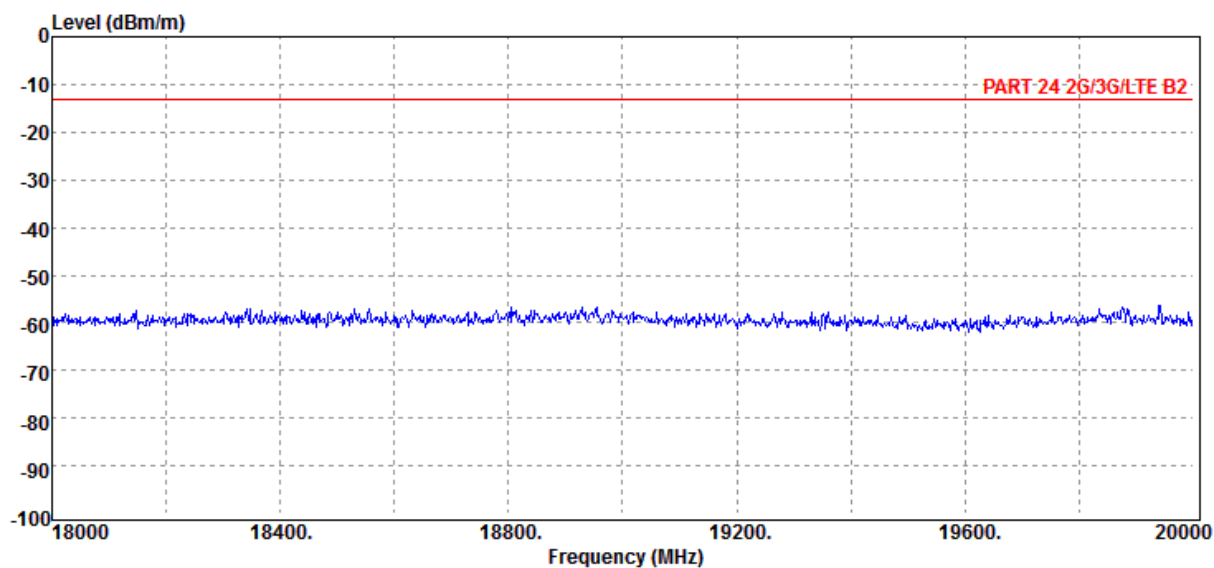
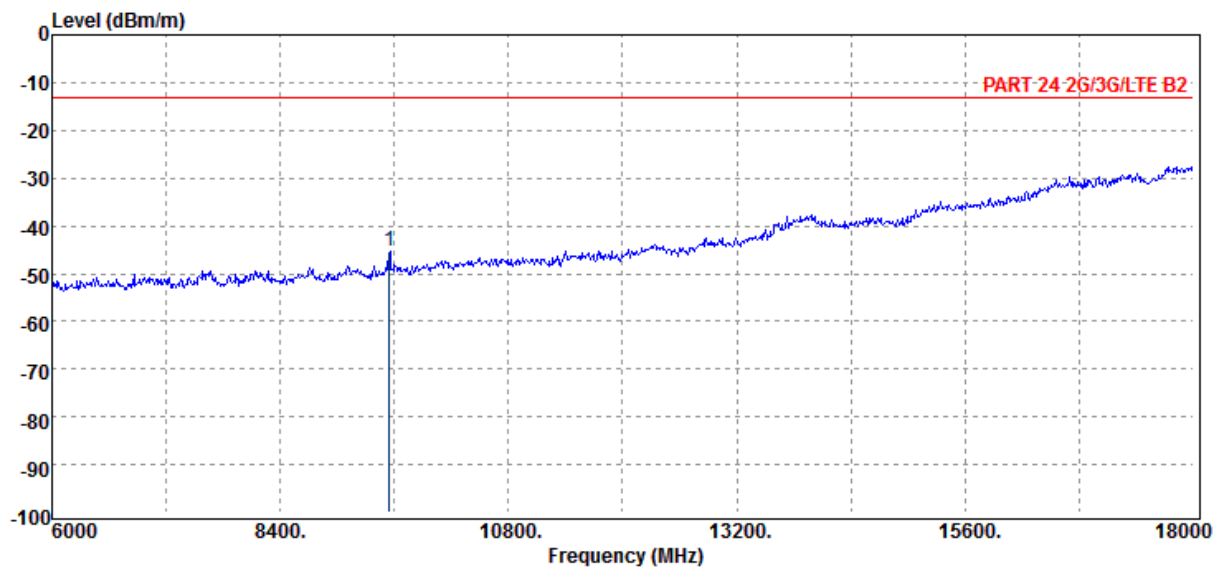
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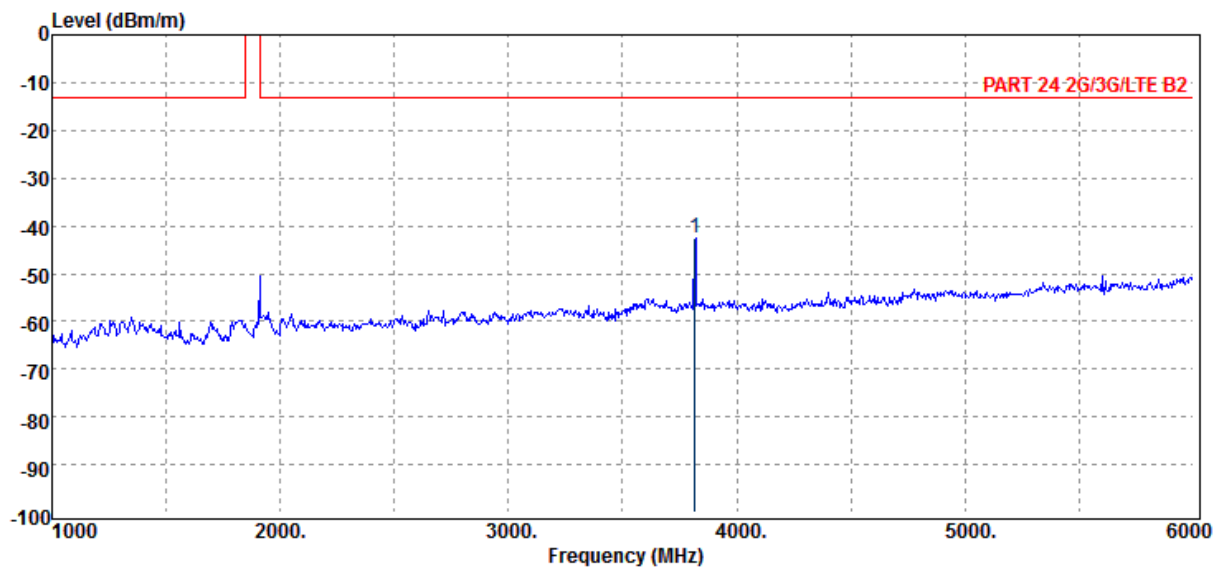
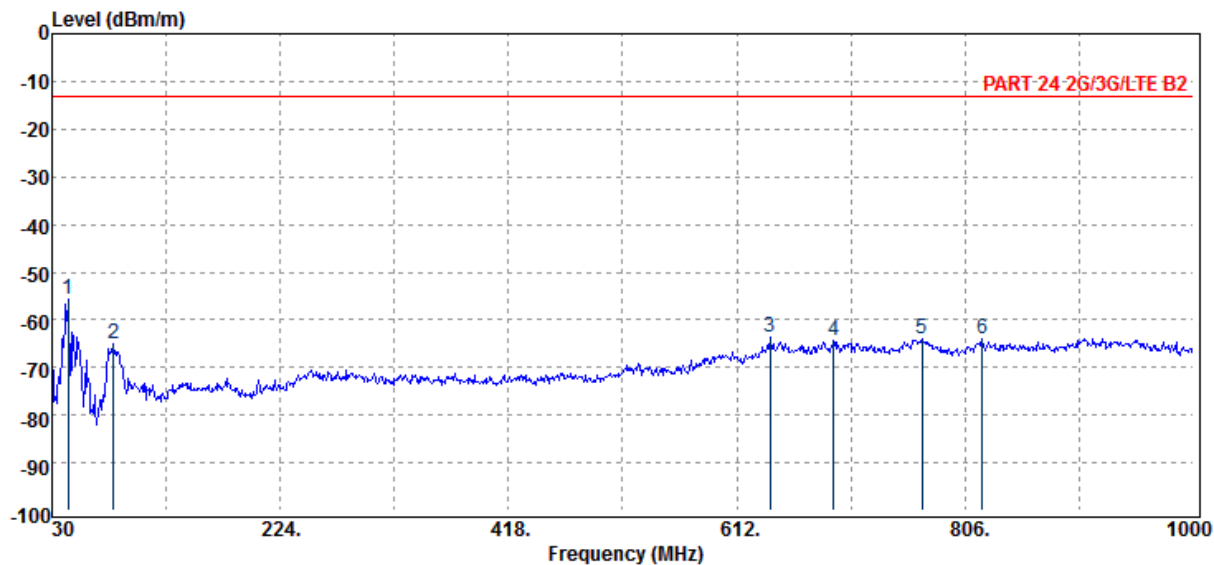
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Operation Band	:EVDO BC1	Test Date	:2014-06-11
ARFCN	:CH 1175	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:1908.75 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



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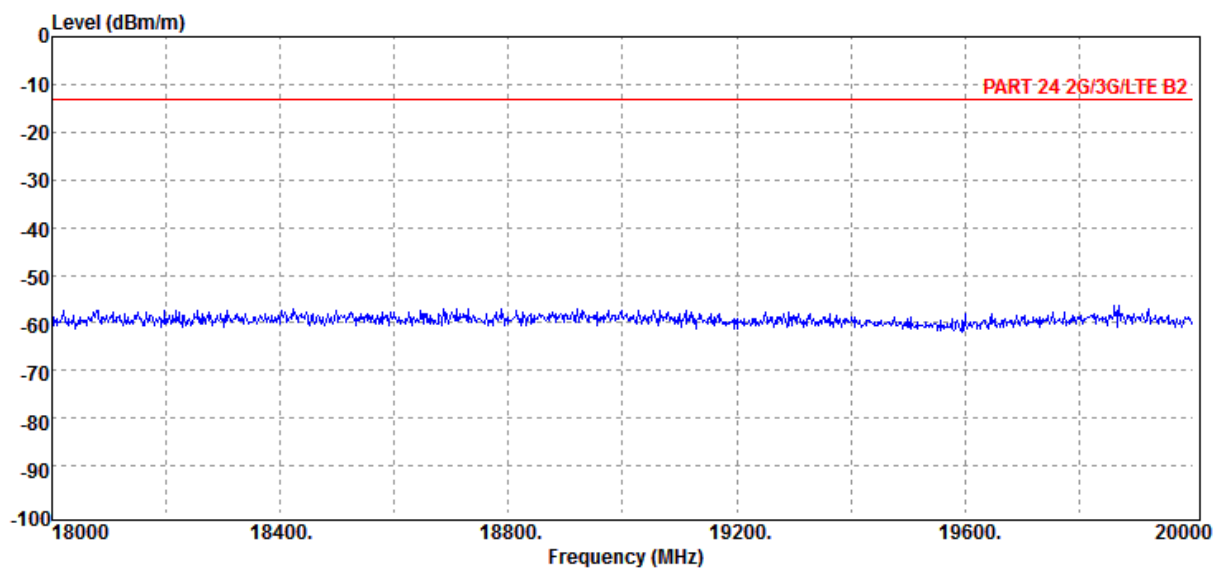
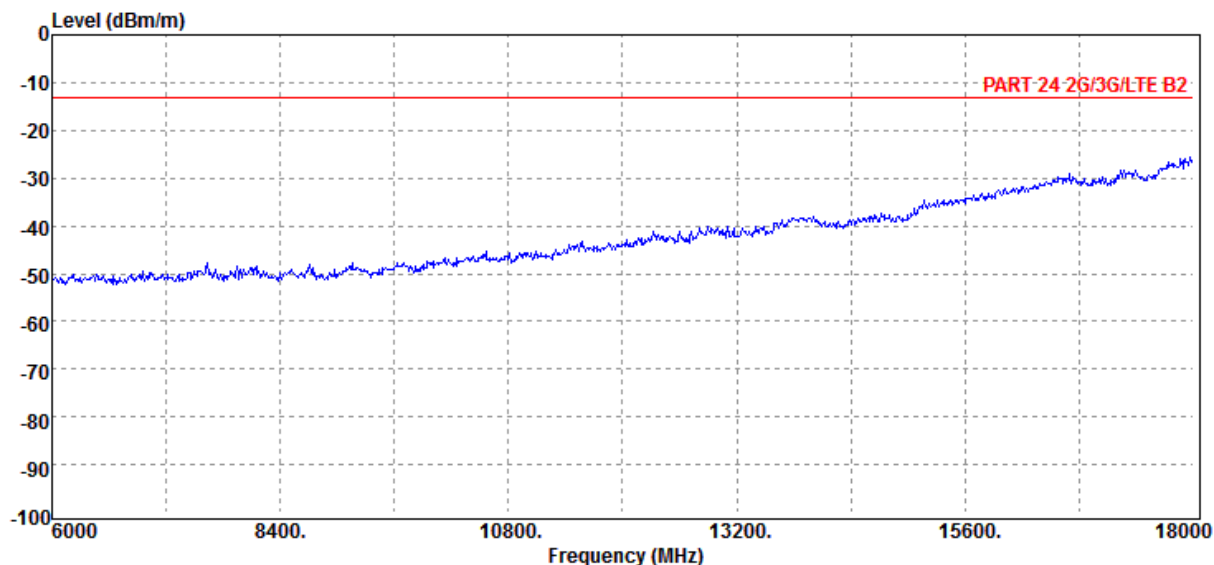
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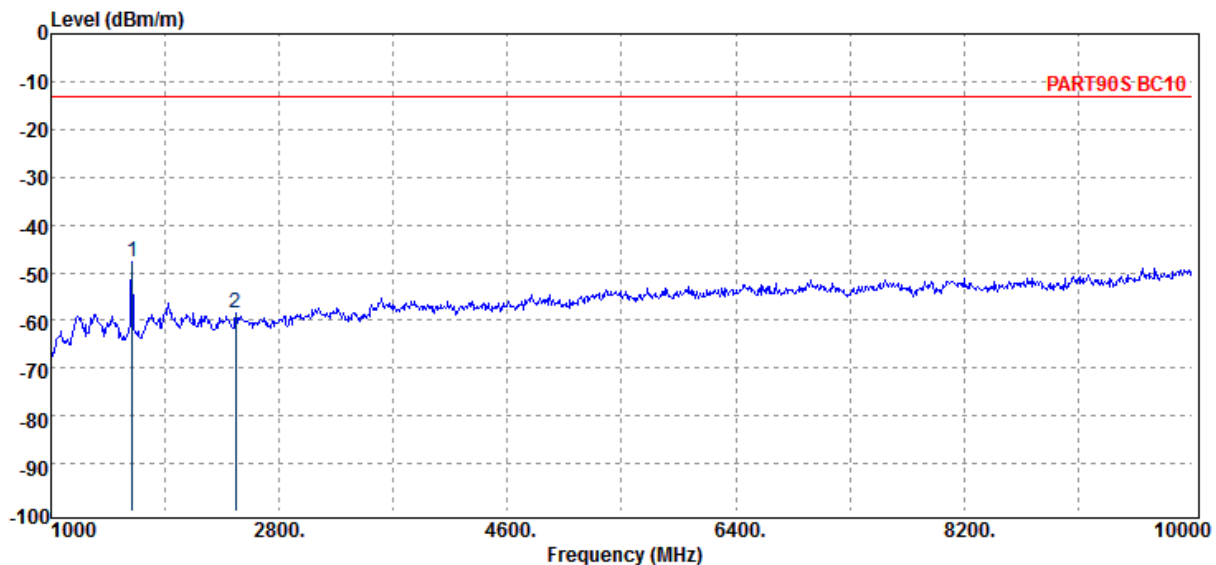
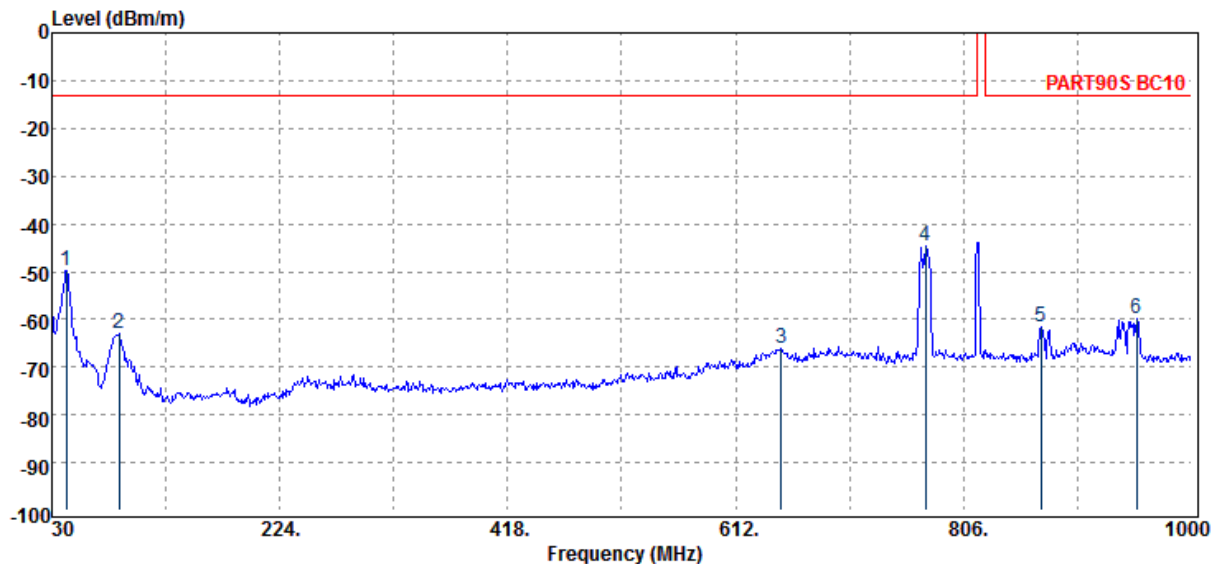
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Radiated Spurious Emission Measurement Result: CDMA 2000 EVDO Cellular (BC10) Mode

Operation Band	:EVDO BC10	Test Date	:2014-06-11
ARFCN	:CH 476	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:817.90 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



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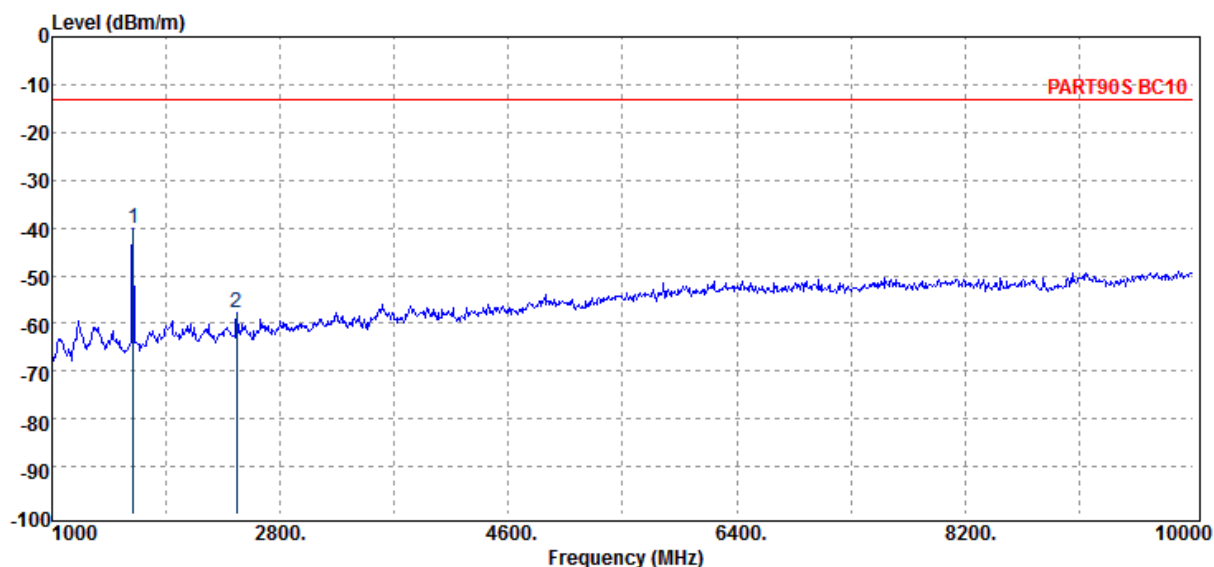
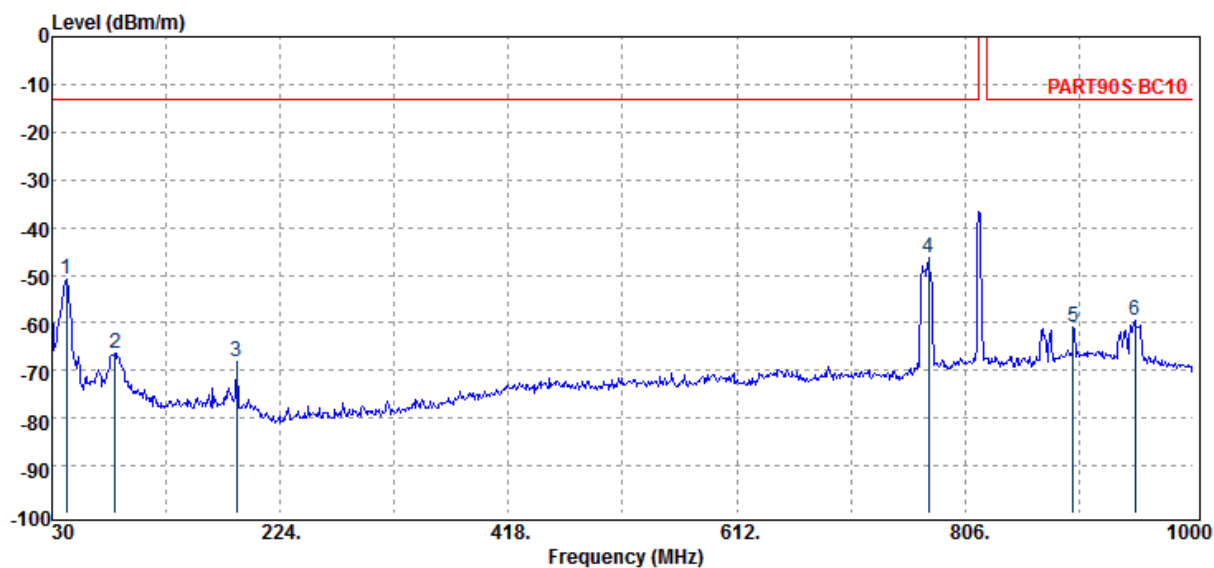
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Operation Band :EVDO BC10
ARFCN :CH 476
Fundamental Frequency :817.90 MHz
Operation Mode :TX LOW
EUT Pol. :E2 Plane

Test Date :2014-06-11
Temp./Humi. :19.6 deg_C / 65 RH
Engineer :Curry

Measurement Antenna Pol. :HORIZONTAL



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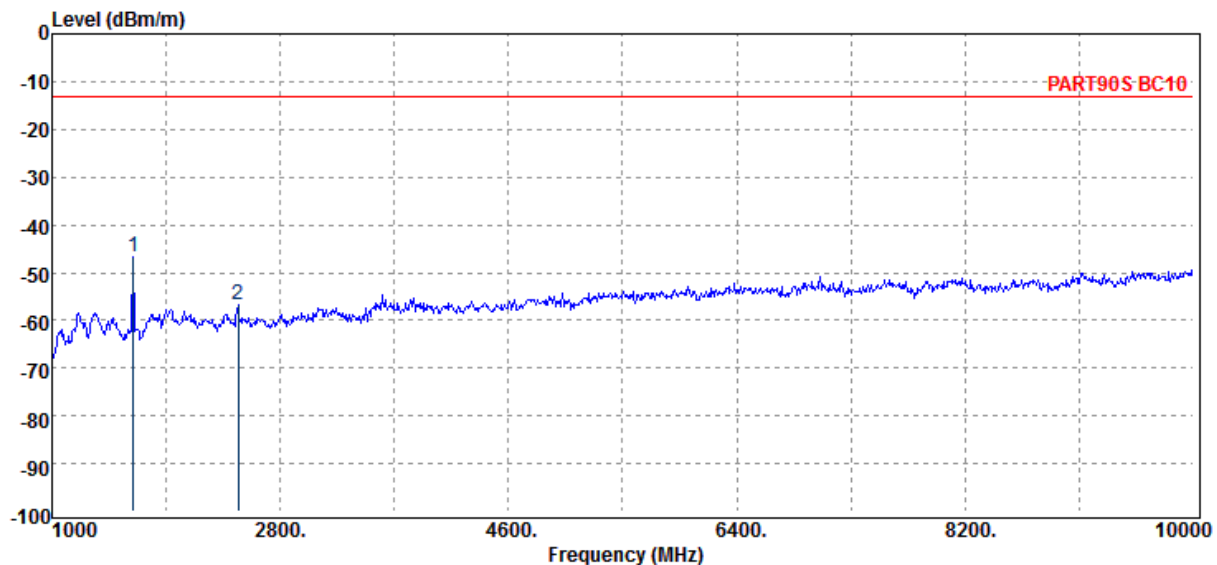
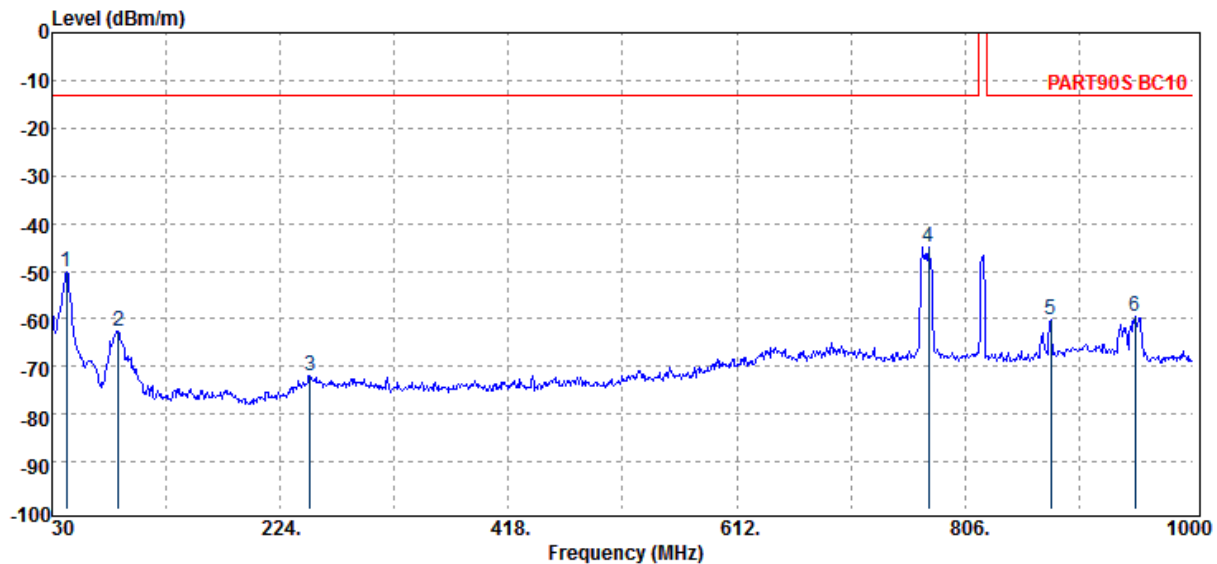
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Operation Band	:EVDO BC10	Test Date	:2014-06-11
ARFCN	:CH 580	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:820.50 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



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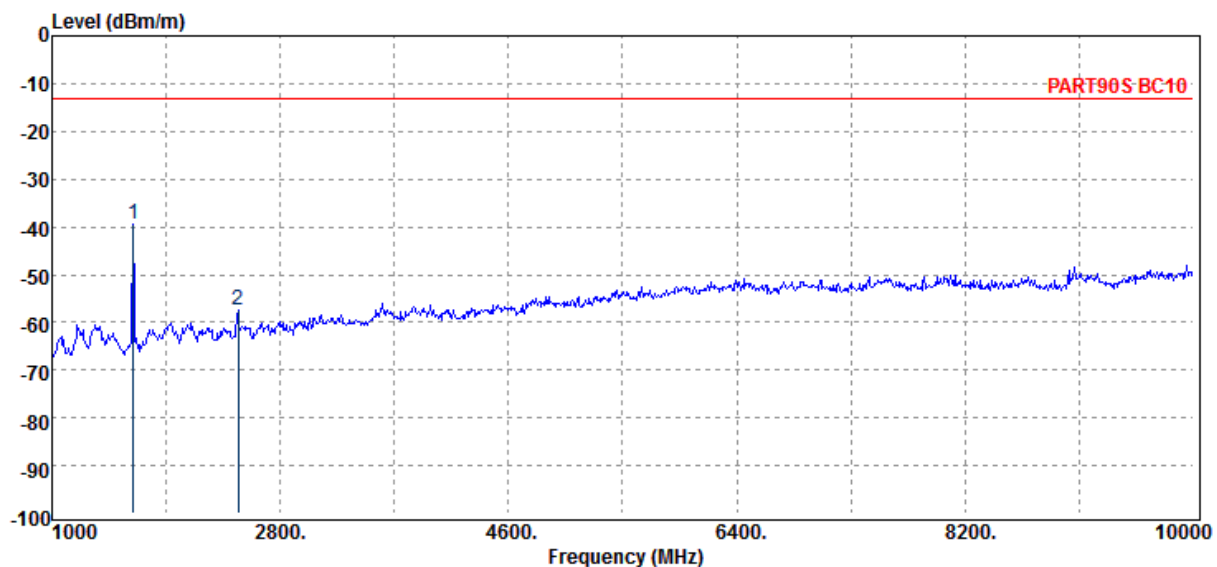
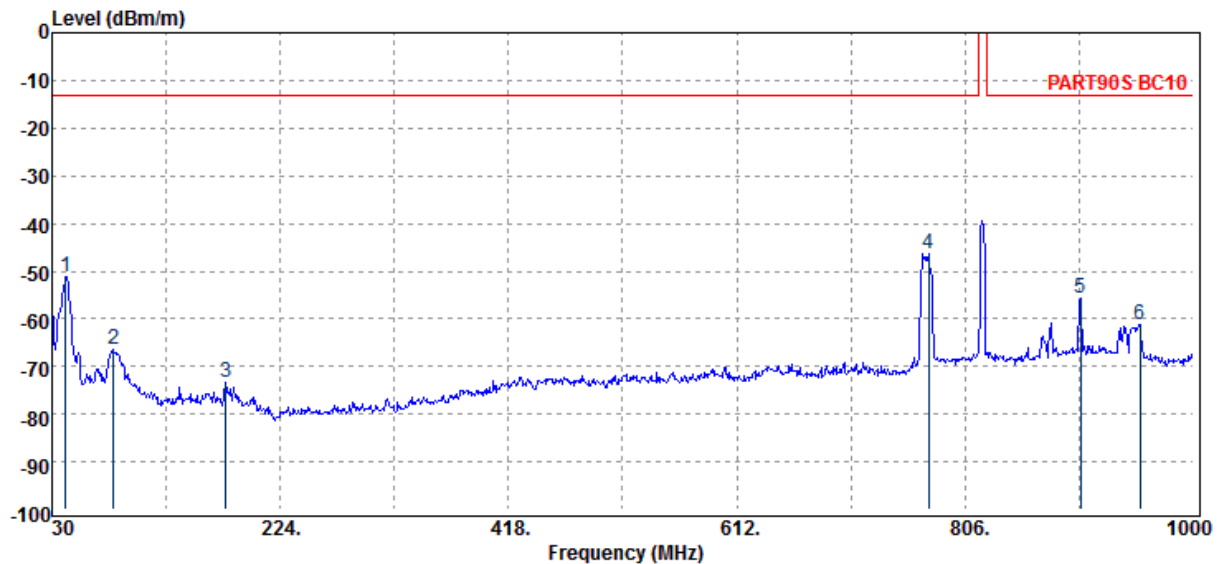
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Operation Band	:EVDO BC10	Test Date	:2014-06-11
ARFCN	:CH 580	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:820.50 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



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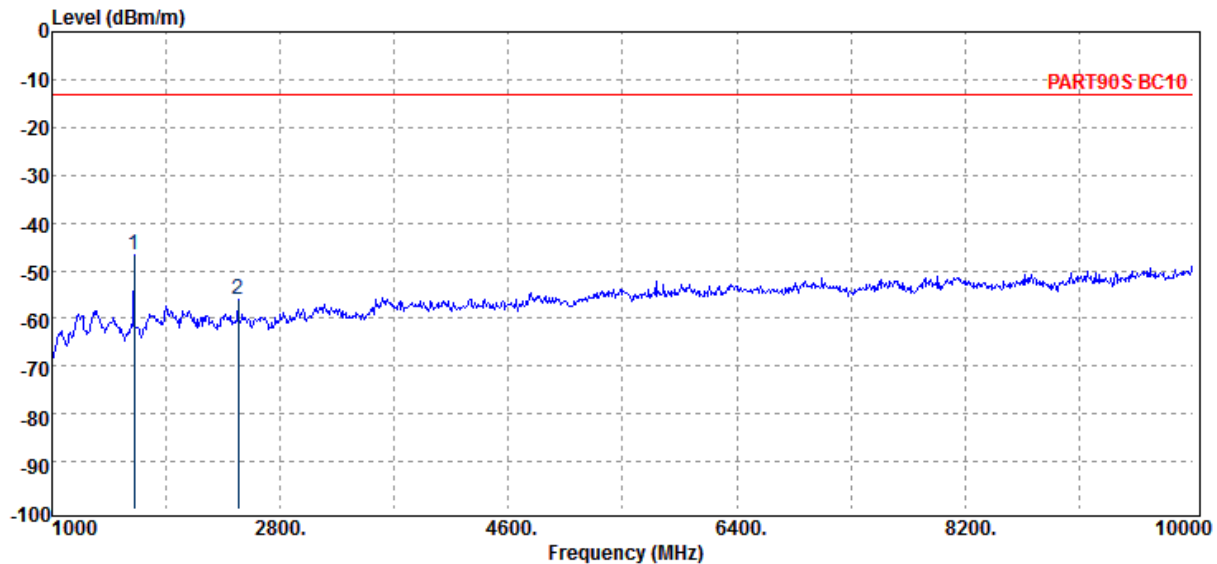
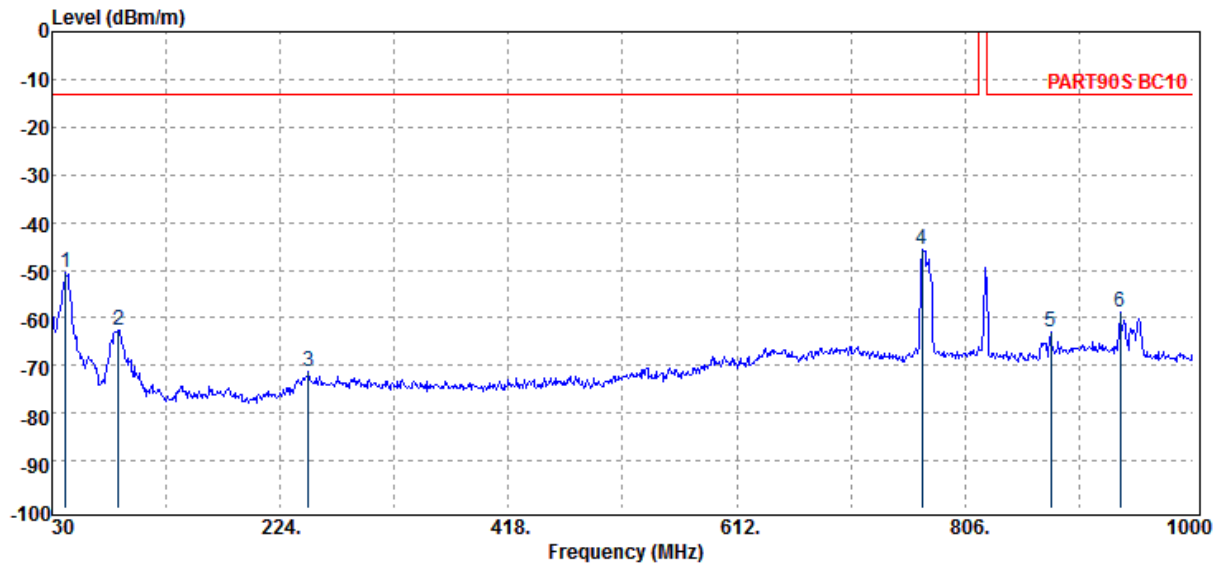
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Operation Band	:EVDO BC10	Test Date	:2014-06-11
ARFCN	:CH 684	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:823.10 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



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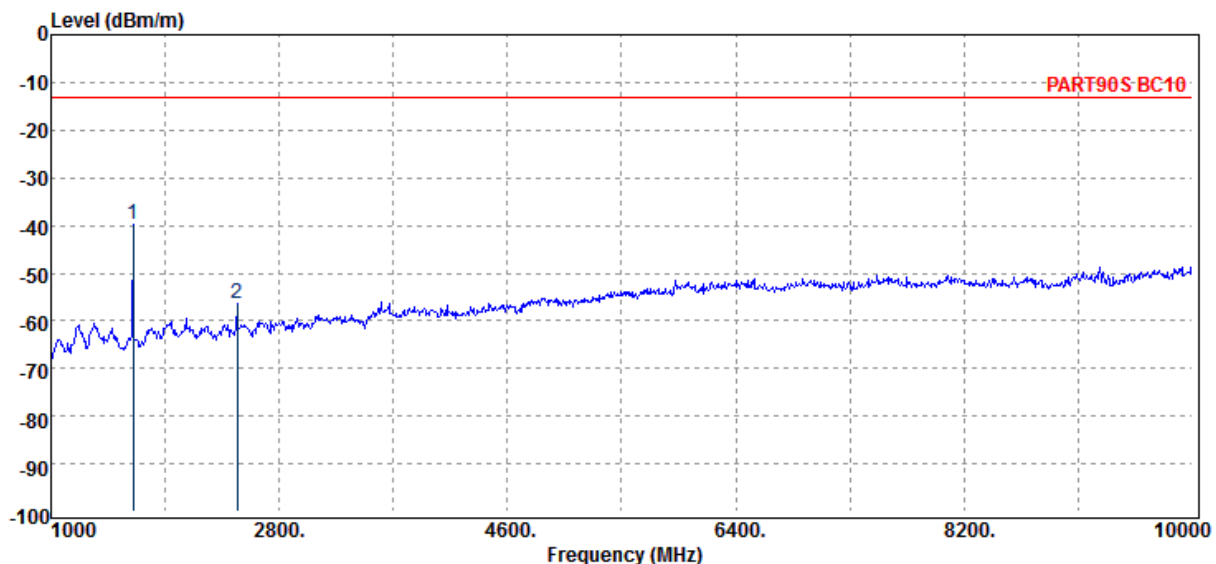
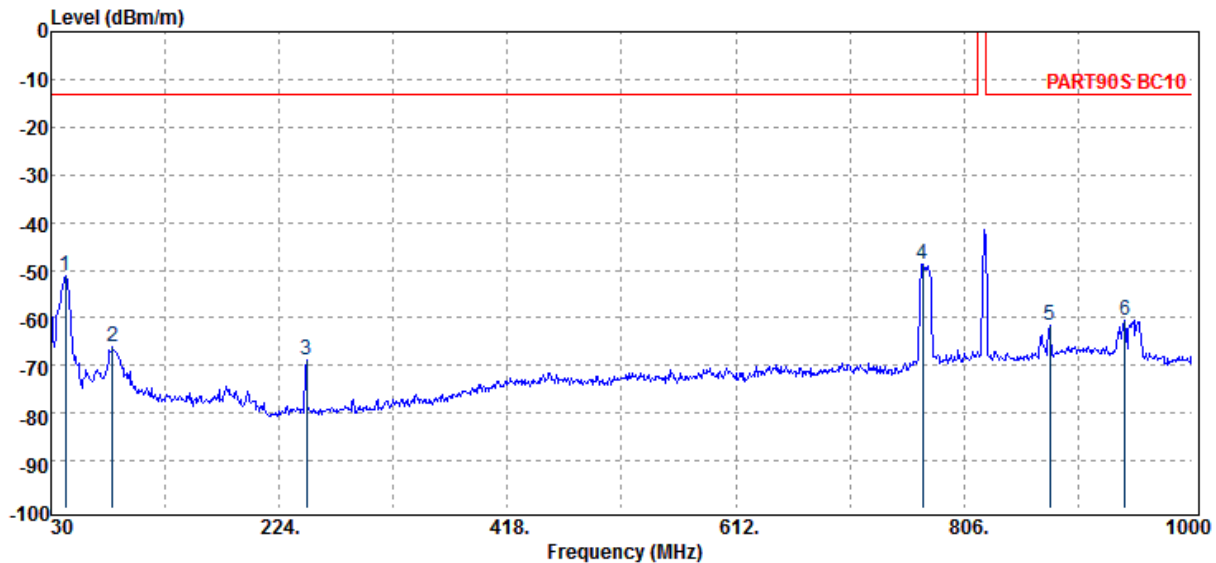
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Operation Band	:EVDO BC10	Test Date	:2014-06-11
ARFCN	:CH 684	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:823.10 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



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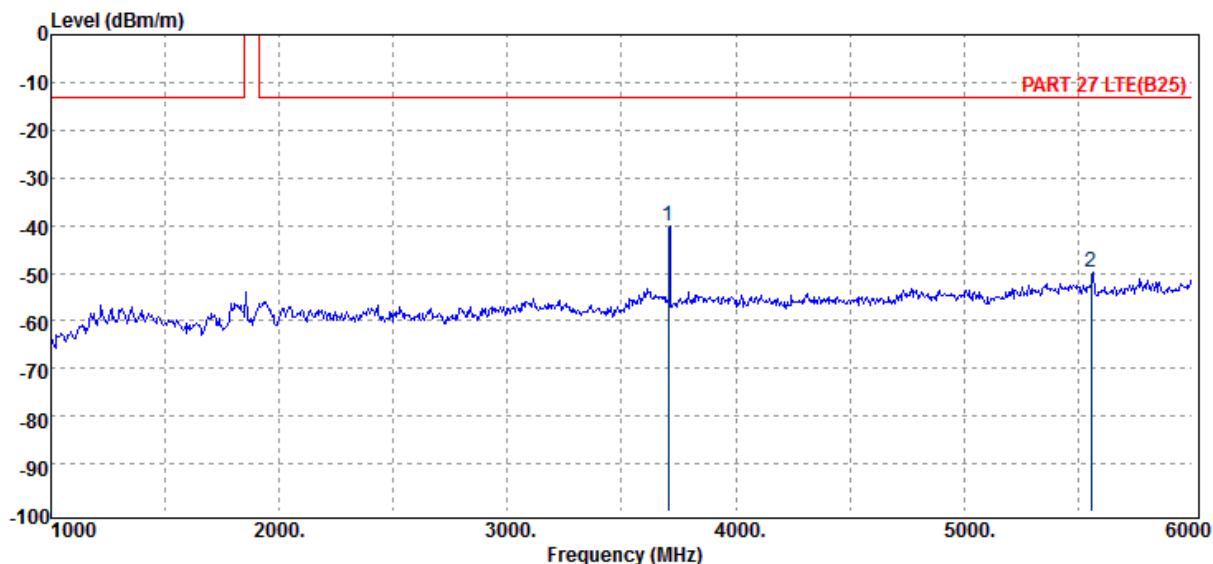
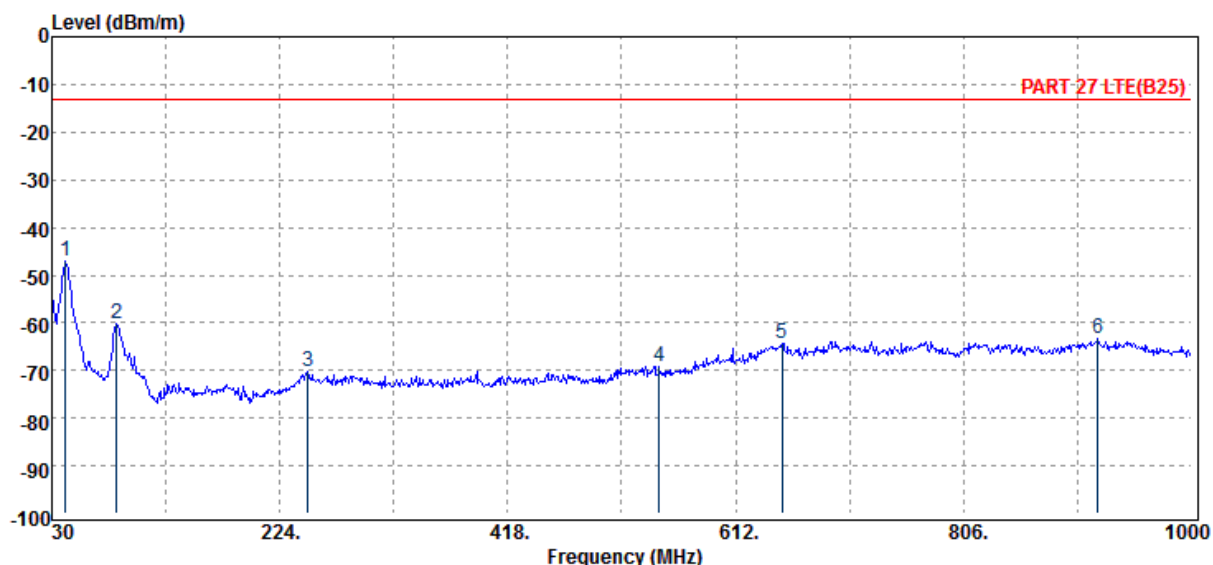
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Radiated Spurious Emission Measurement Result: 5MHz BW LTE-Band 25(The Worst Case)

Operation Band	:LTE B25	Test Date	:2014-06-23
ARFCN	:CH 26065 16QAM BW 5 RB1 24	Temp./Humi.	:22.1 deg_C / 68 RH
Fundamental Frequency	:1852.5 MHz	Engineer	:Curry
Operation Mode	:TX LOW	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:E2 Plane		



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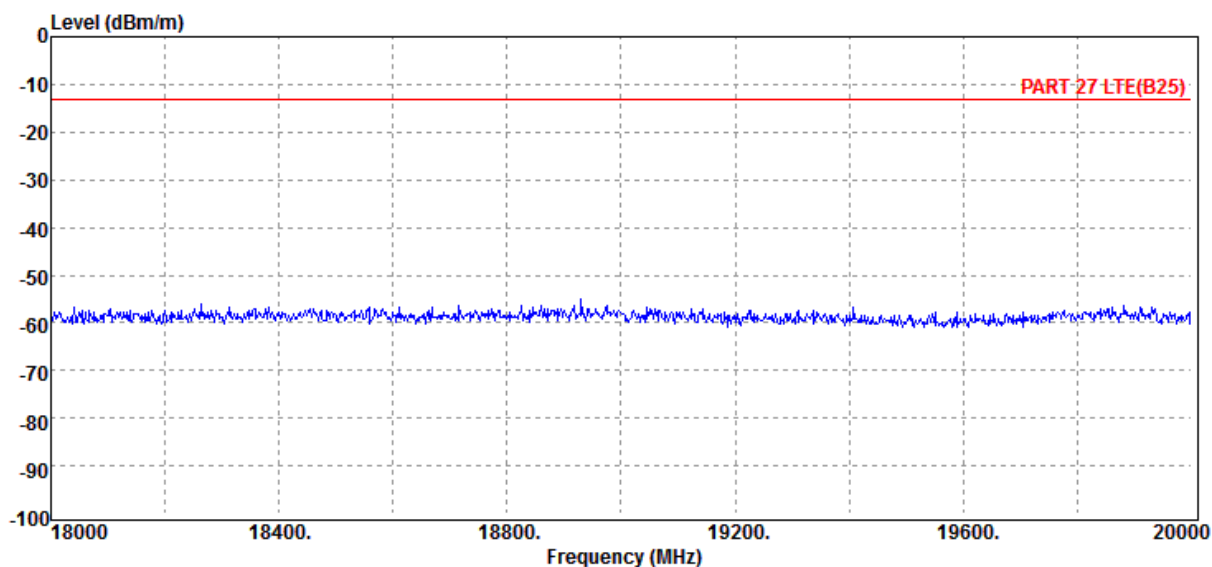
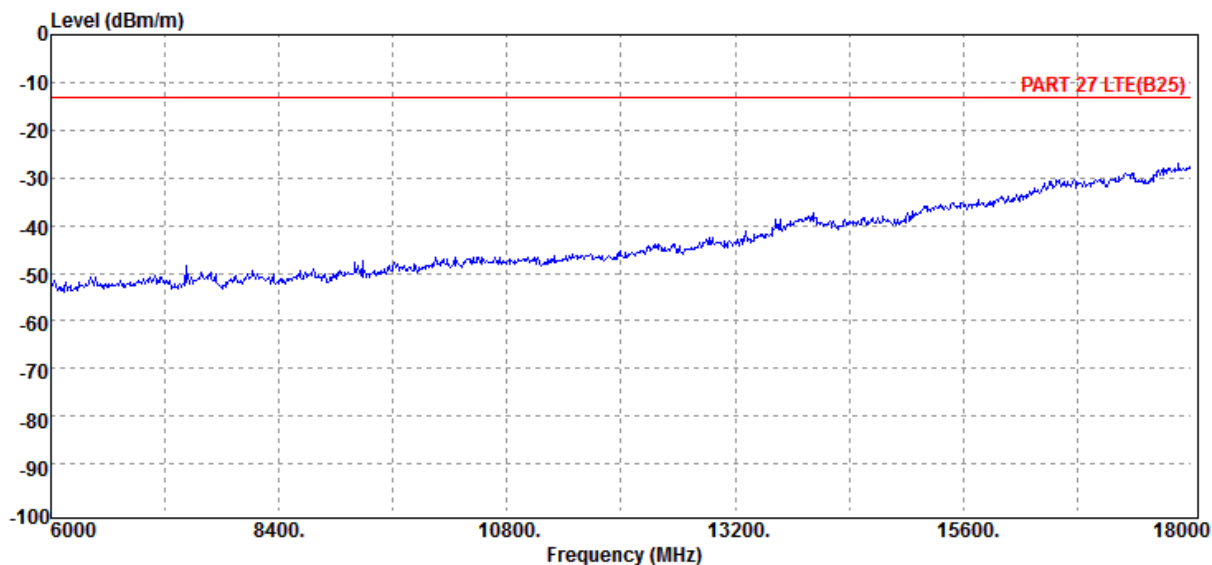
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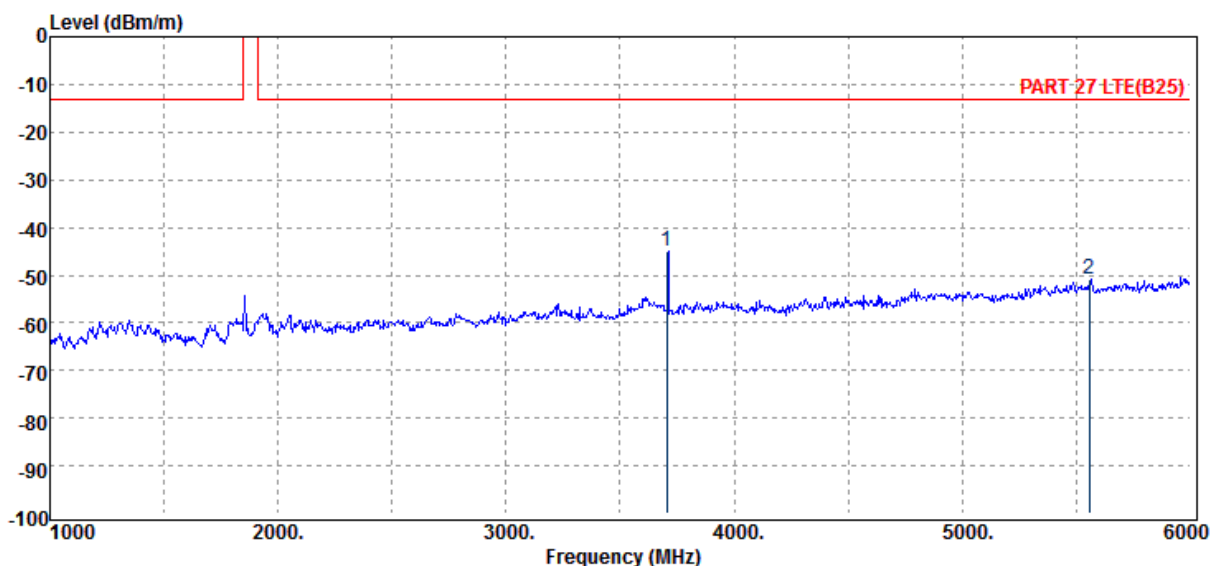
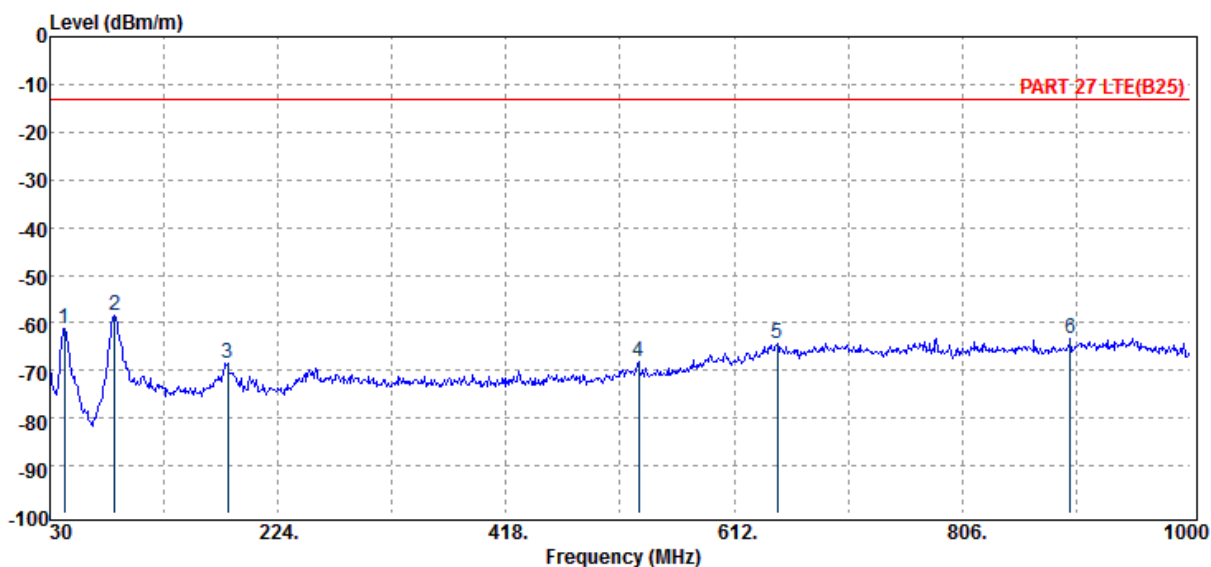
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Operation Band	:LTE B25	Test Date	:2014-06-23
ARFCN	:CH 26065 16QAM BW 5 RB1 24	Temp./Humi.	:22.1 deg_C / 68 RH
Fundamental Frequency	:1852.5 MHz	Engineer	:Curry
Operation Mode	:TX LOW	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:E2 Plane		



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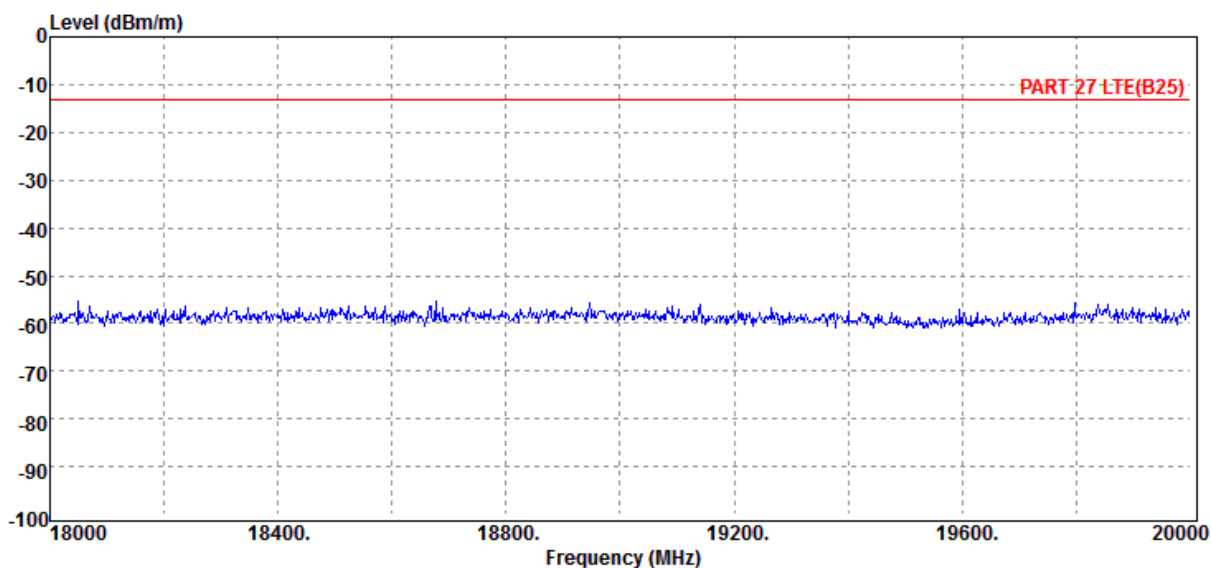
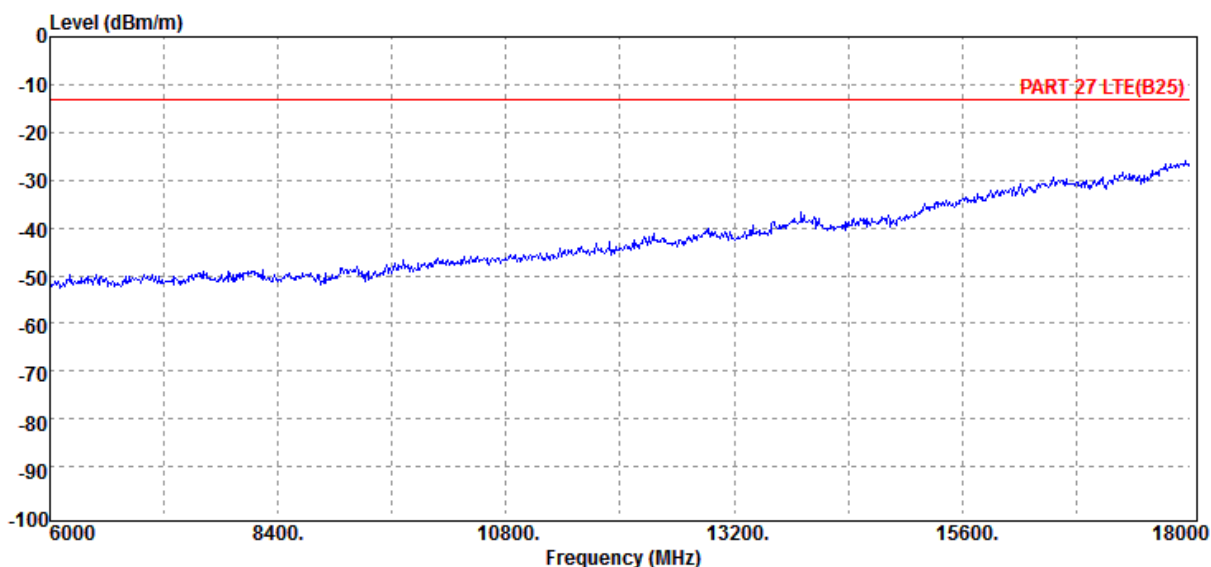
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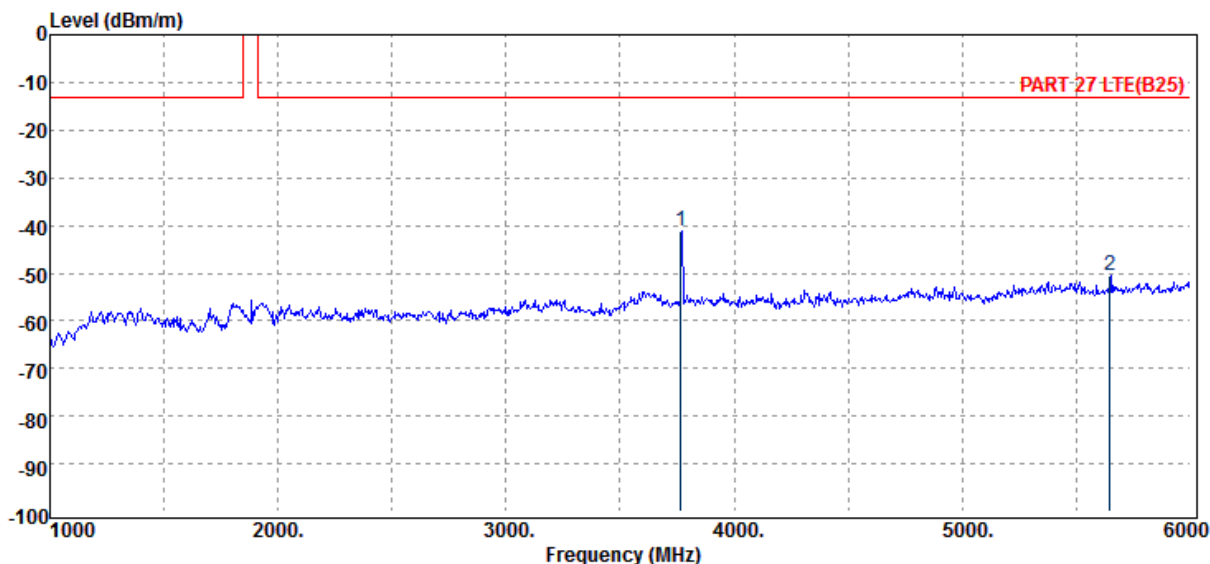
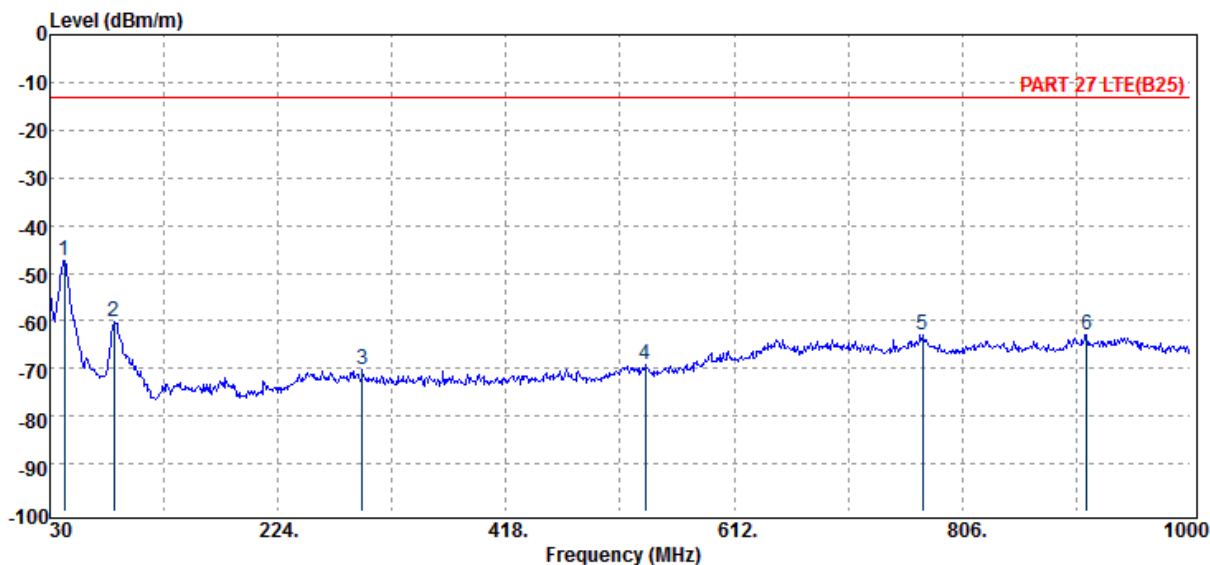
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Operation Band	:LTE B25	Test Date	:2014-06-23
ARFCN	:CH 26365 16QAM BW 5 RB1 24	Temp./Humi.	:22.1 deg_C / 68 RH
Fundamental Frequency	:1882.5 MHz	Engineer	:Curry
Operation Mode	:TX MID	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:E2 Plane		



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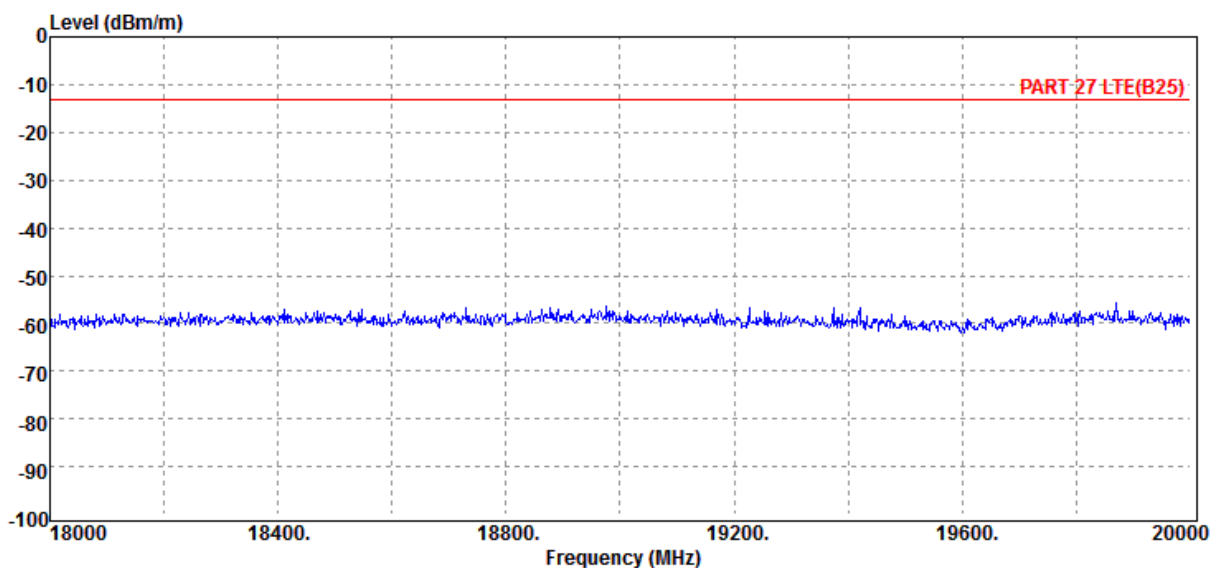
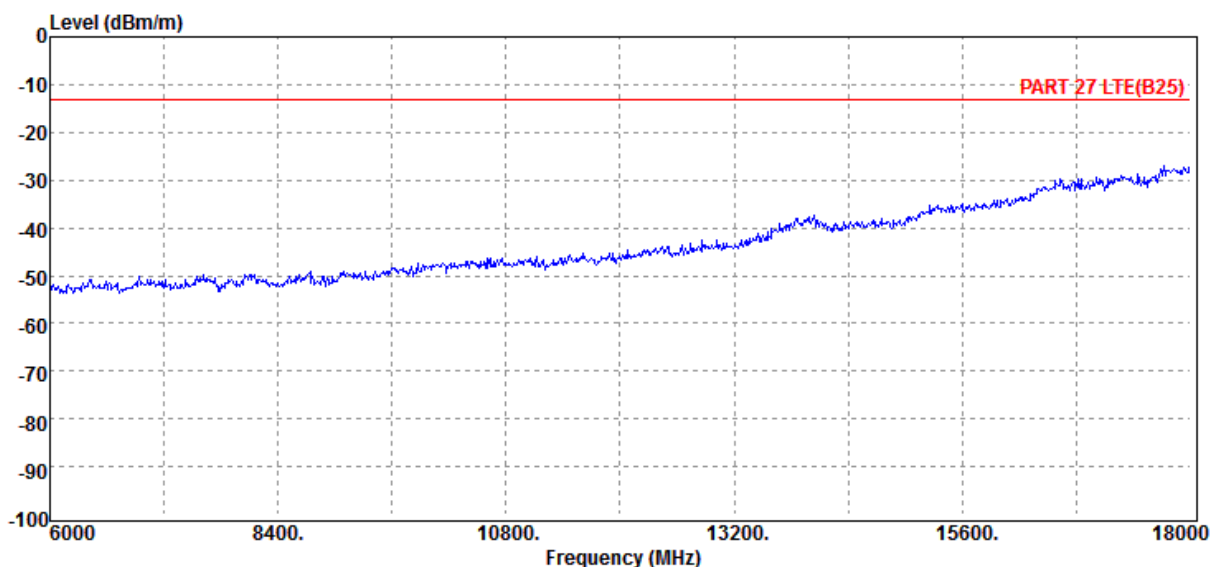
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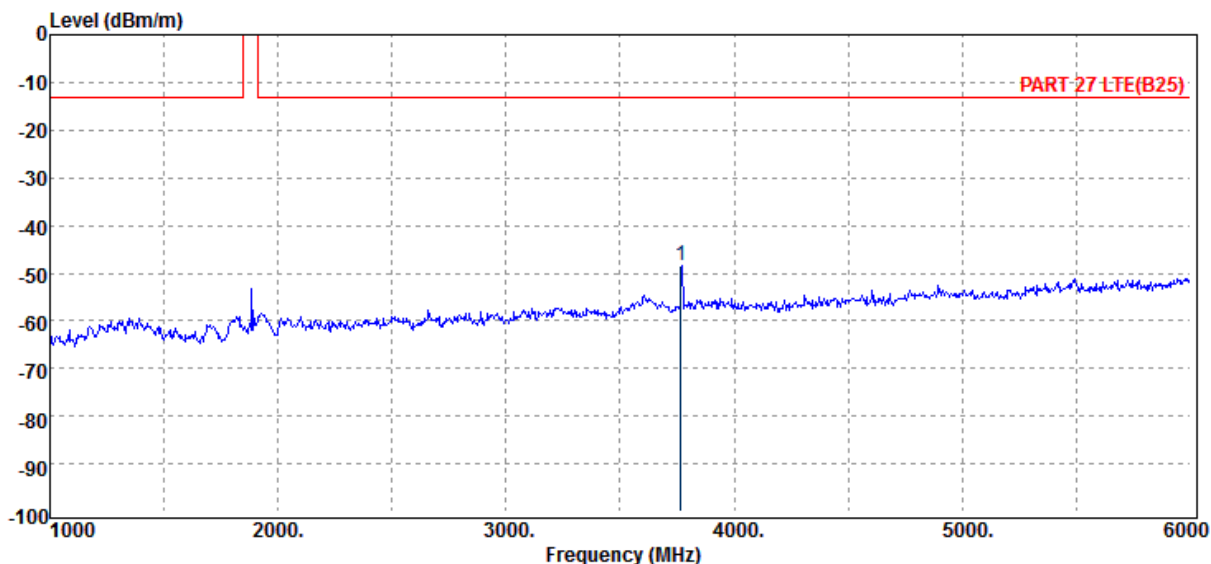
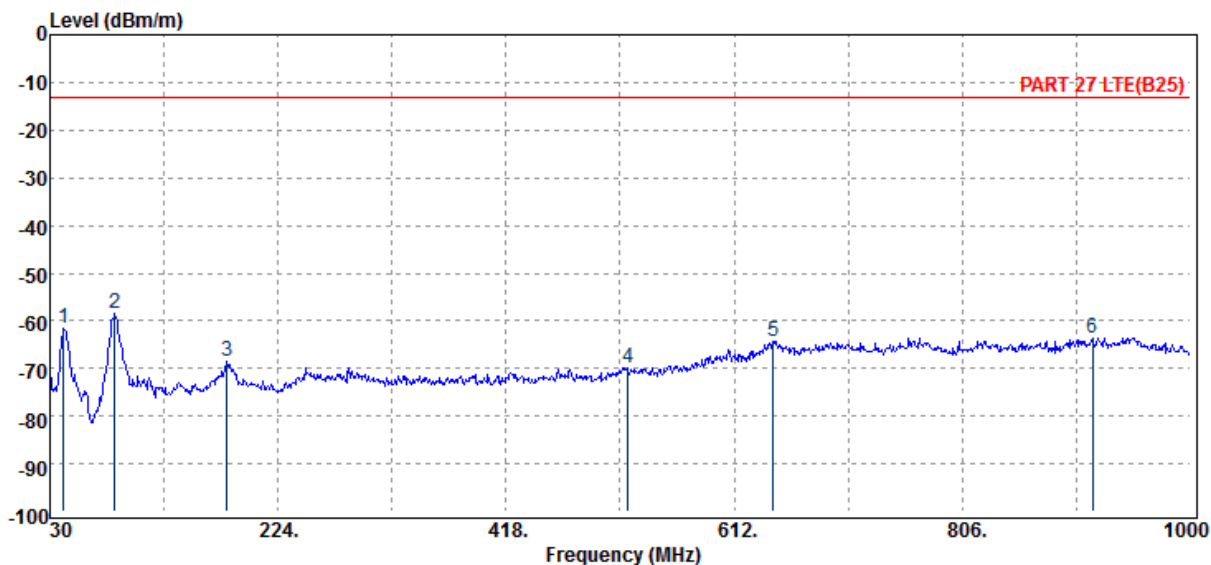
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Operation Band	:LTE B25	Test Date	:2014-06-23
ARFCN	:CH 26365 16QAM BW 5 RB1 24	Temp./Humi.	:22.1 deg_C / 68 RH
Fundamental Frequency	:1882.5 MHz	Engineer	:Curry
Operation Mode	:TX MID	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:E2 Plane		



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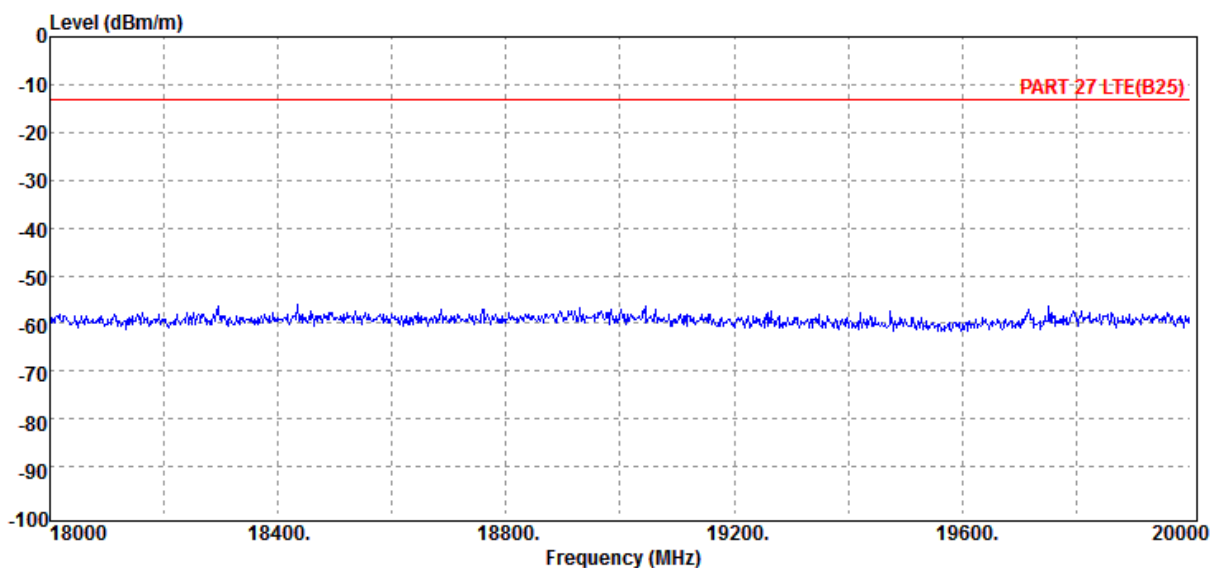
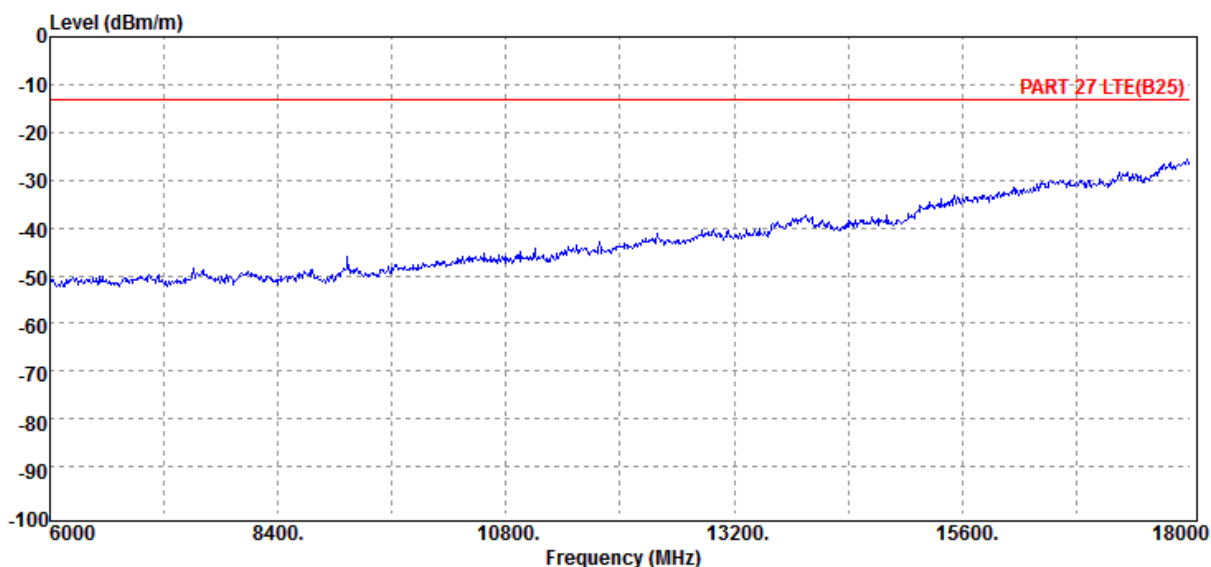
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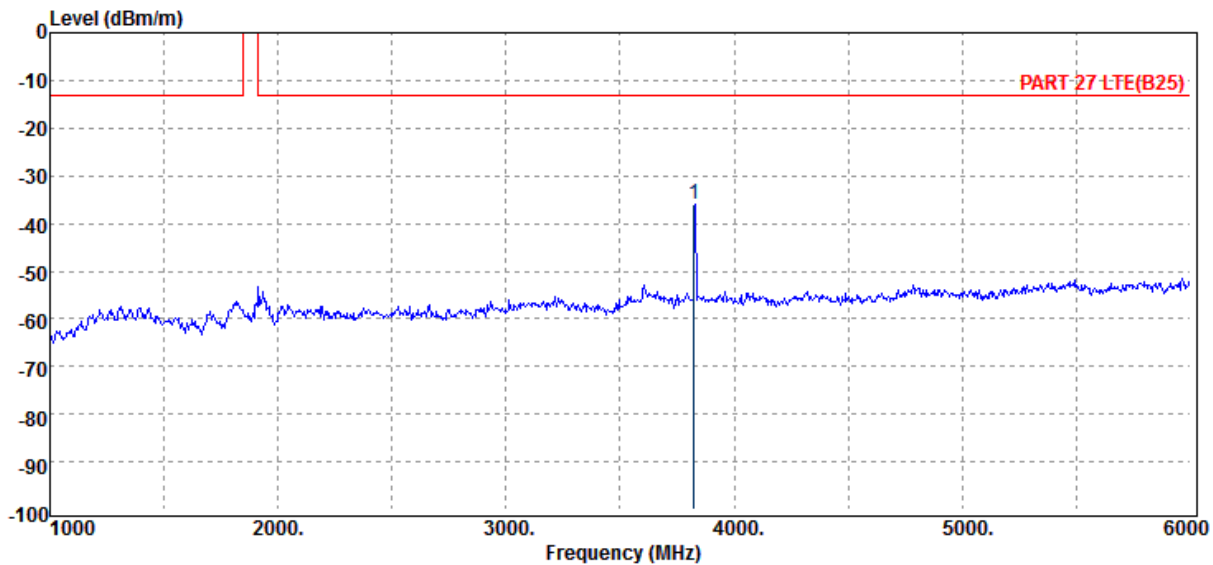
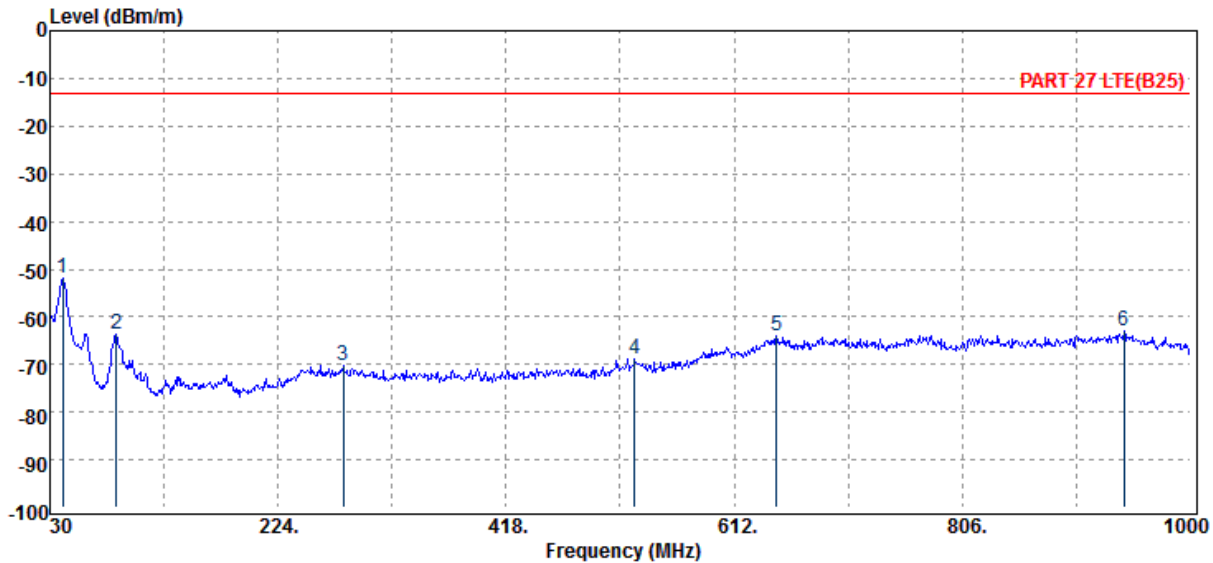
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Operation Band	:LTE B25	Test Date	:2014-06-23
ARFCN	:CH 26665 16QAM BW 5 RB1 24	Temp./Humi.	:22.1 deg_C / 68 RH
Fundamental Frequency	:1912.5 MHz	Engineer	:Curry
Operation Mode	:TX HIGH	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:E2 Plane		



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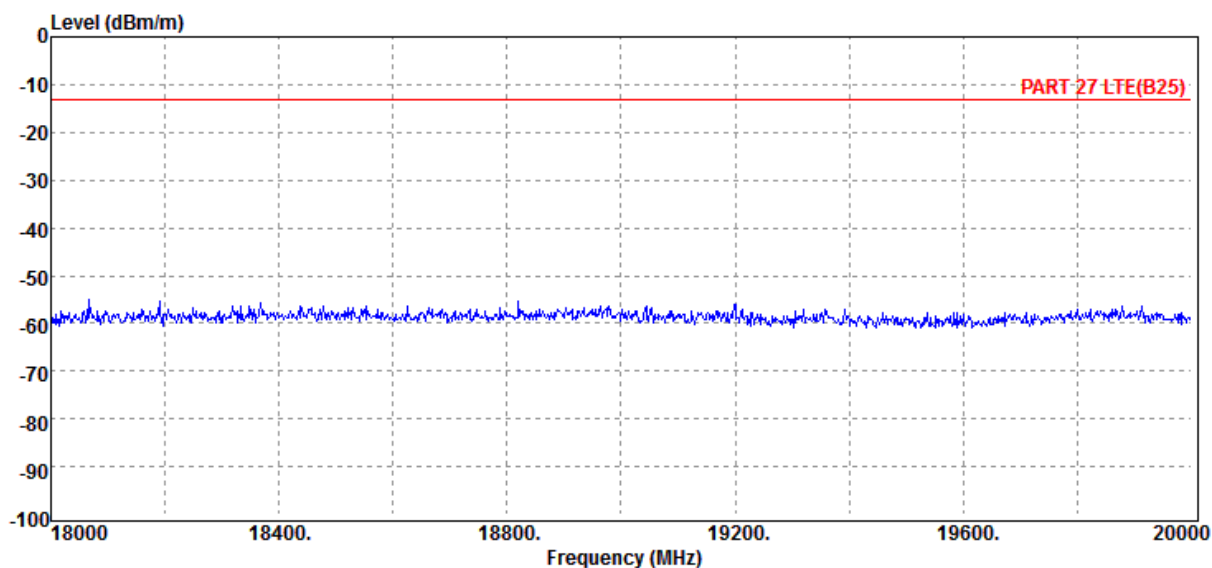
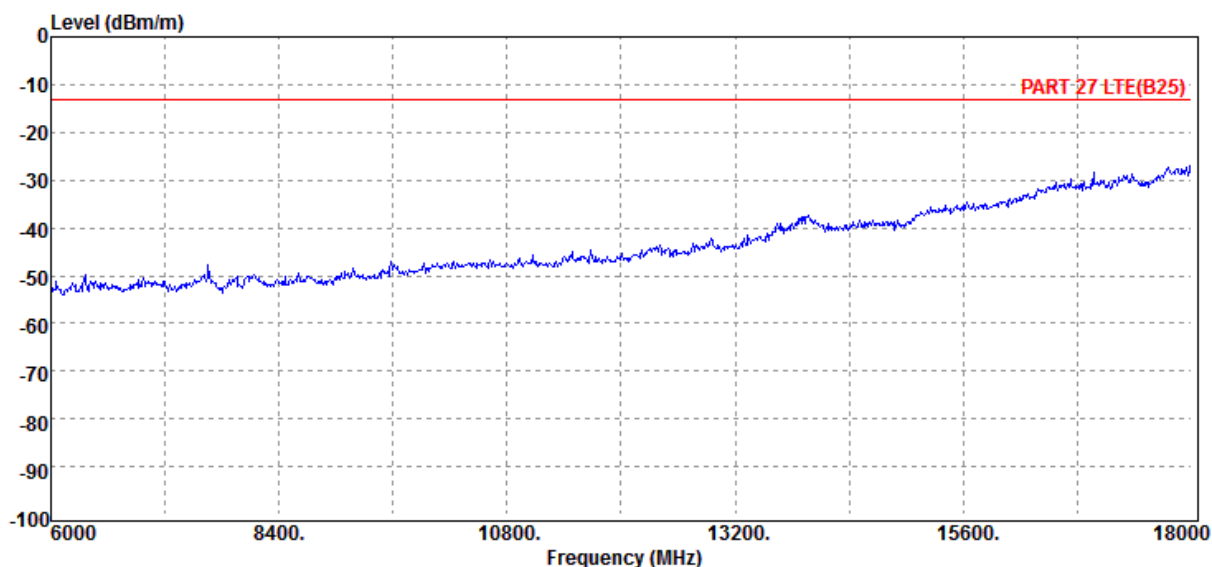
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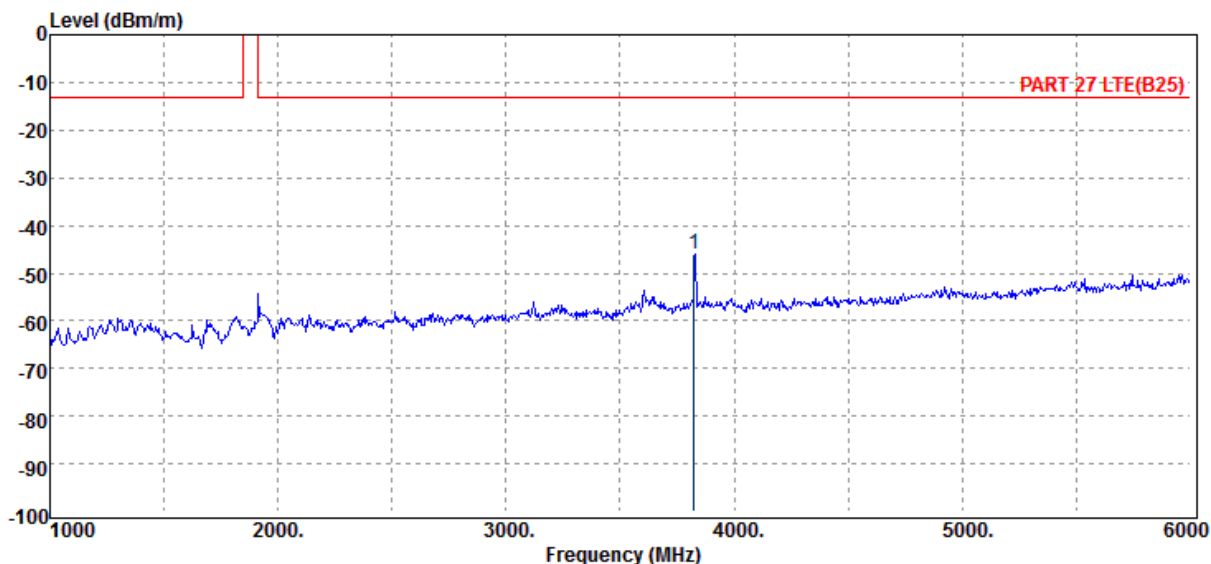
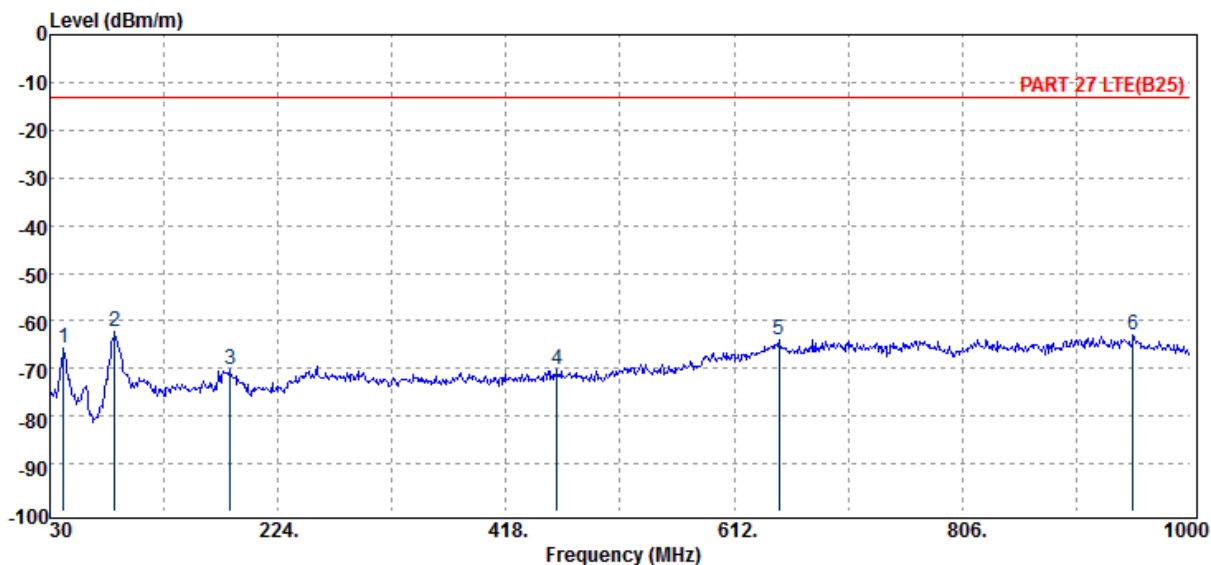
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Operation Band	:LTE B25	Test Date	:2014-06-23
ARFCN	:CH 26665 16QAM BW 5 RB1 24	Temp./Humi.	:22.1 deg_C / 68 RH
Fundamental Frequency	:1912.5 MHz	Engineer	:Curry
Operation Mode	:TX HIGH	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:E2 Plane		



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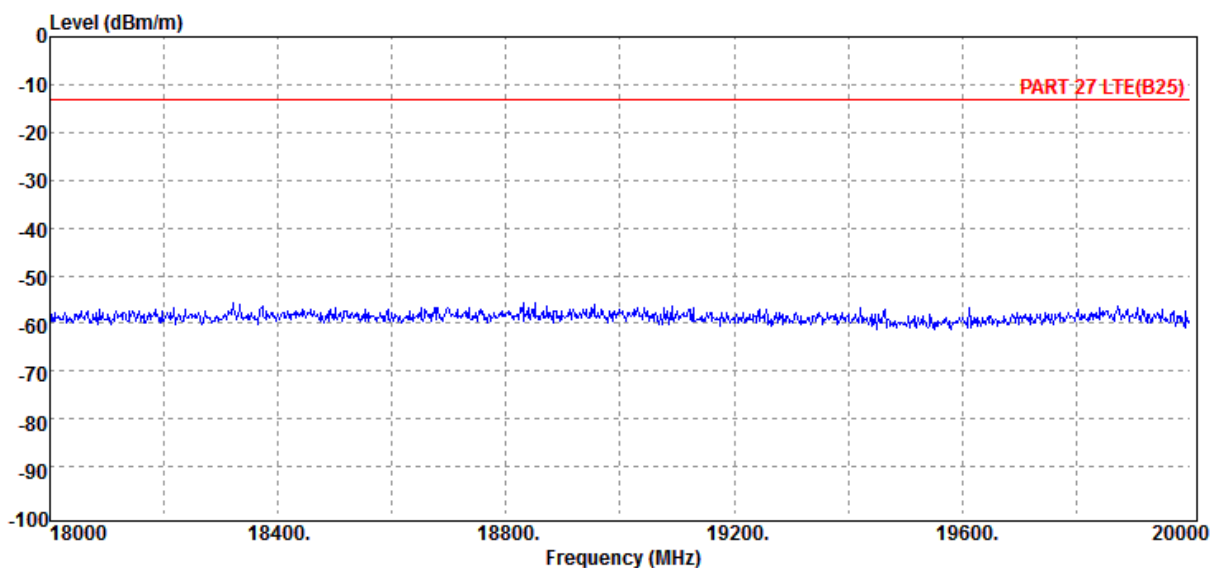
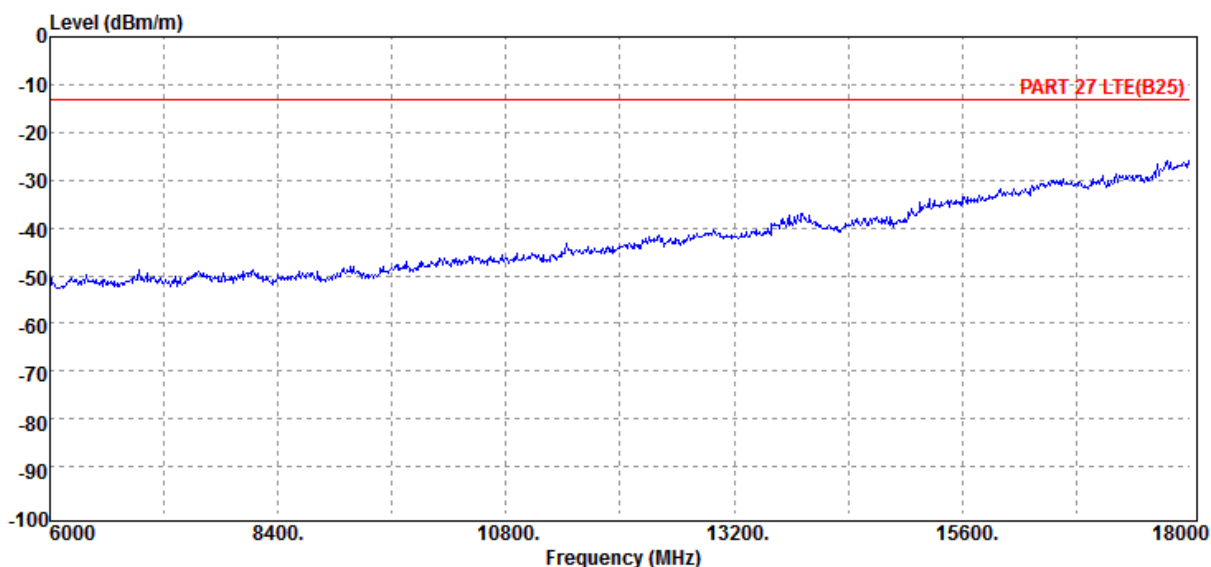
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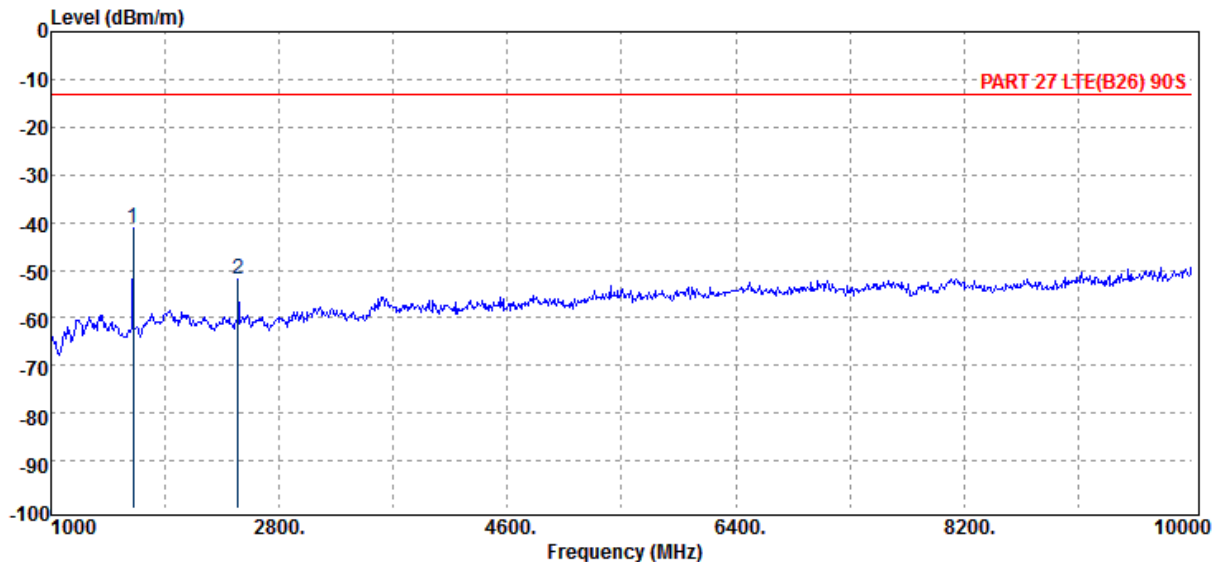
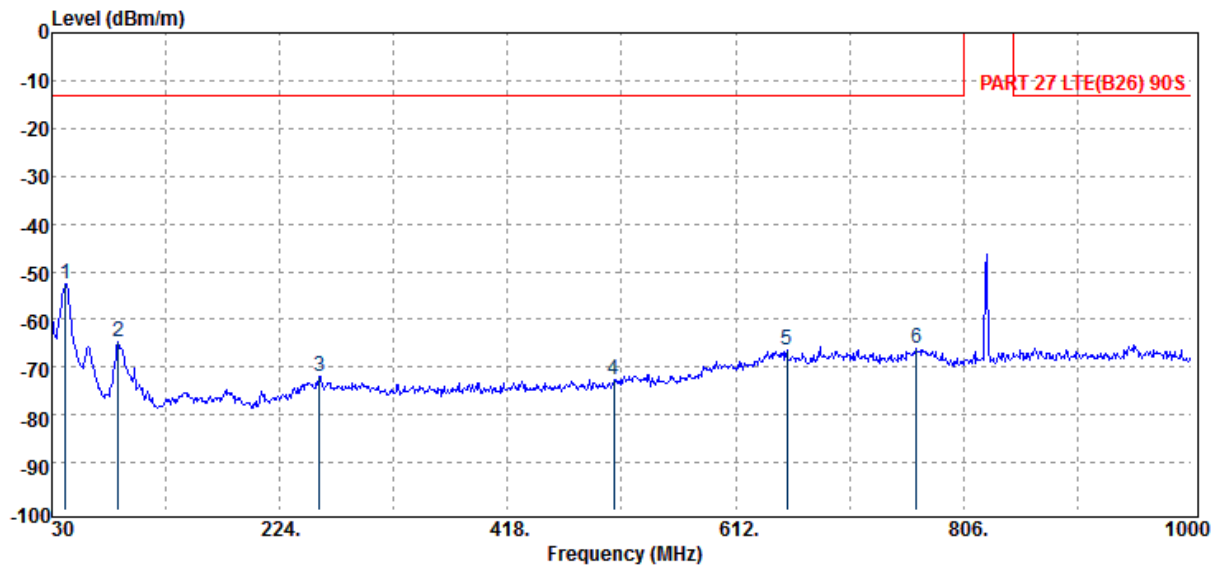
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Radiated Spurious Emission Measurement Result: 1.4MHz BW LTE-Band 26(The Worst Case)

Operation Band	:LTE B26	Test Date	:2014-06-23
ARFCN	:CH 26797 16QAM BW 1.4 RB1 5	Temp./Humi.	:22.1 deg_C / 68 RH
Fundamental Frequency	:824.7 MHz	Engineer	:Curry
Operation Mode	:TX LOW	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:E1 Plane		



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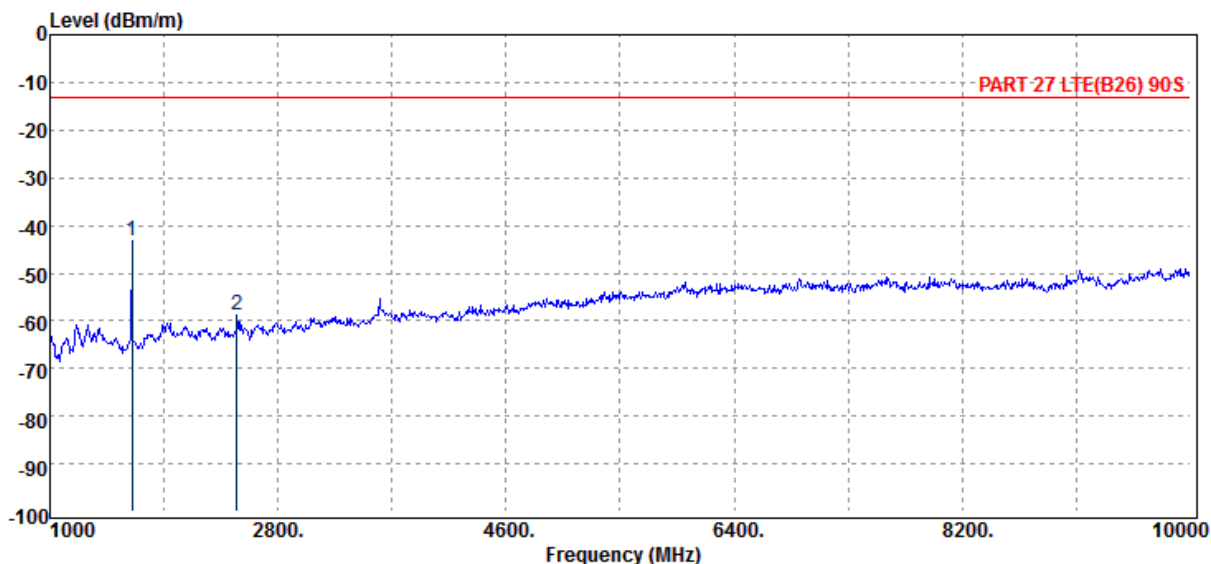
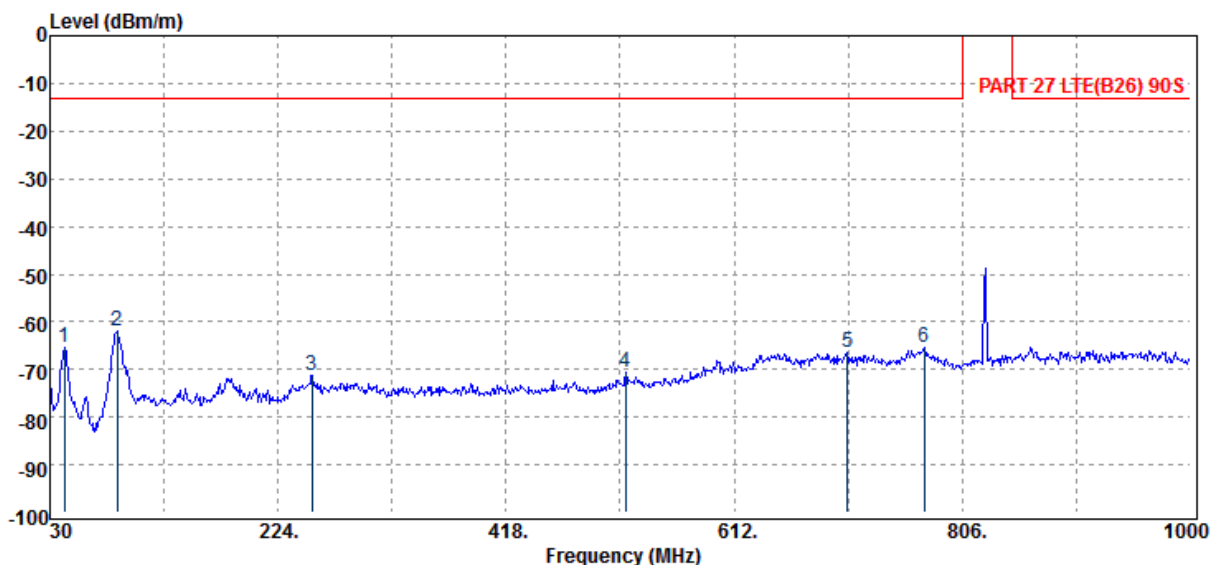
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Operation Band	:LTE B26	Test Date	:2014-06-23
ARFCN	:CH 26797 16QAM BW 1.4 RB1 5	Temp./Humi.	:22.1 deg_C / 68 RH
Fundamental Frequency	:824.7 MHz	Engineer	:Curry
Operation Mode	:TX LOW	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:E1 Plane		



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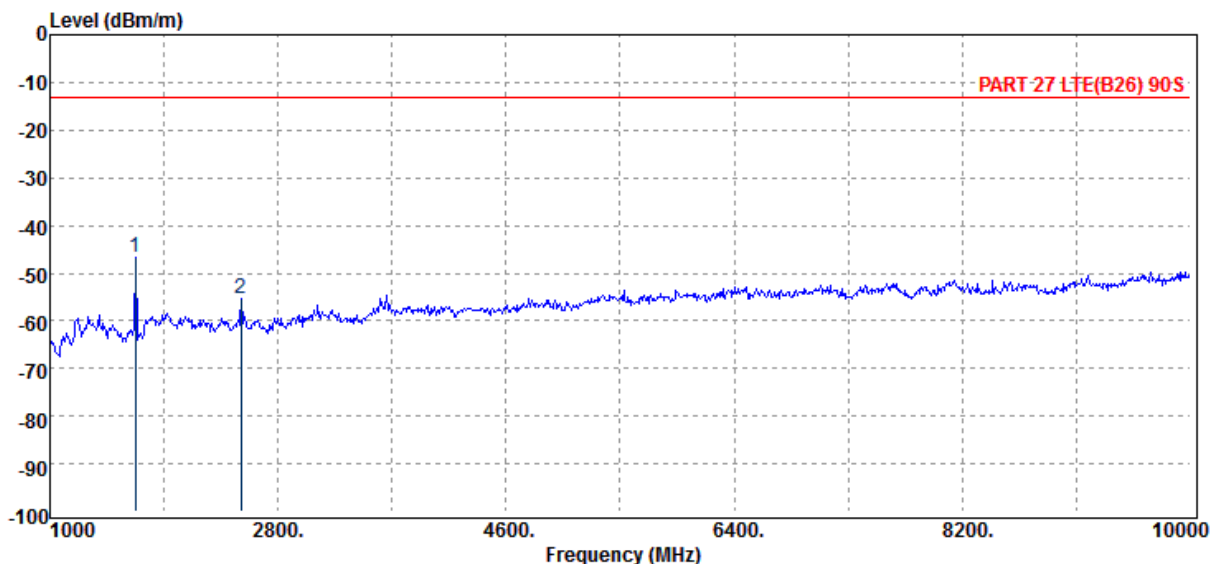
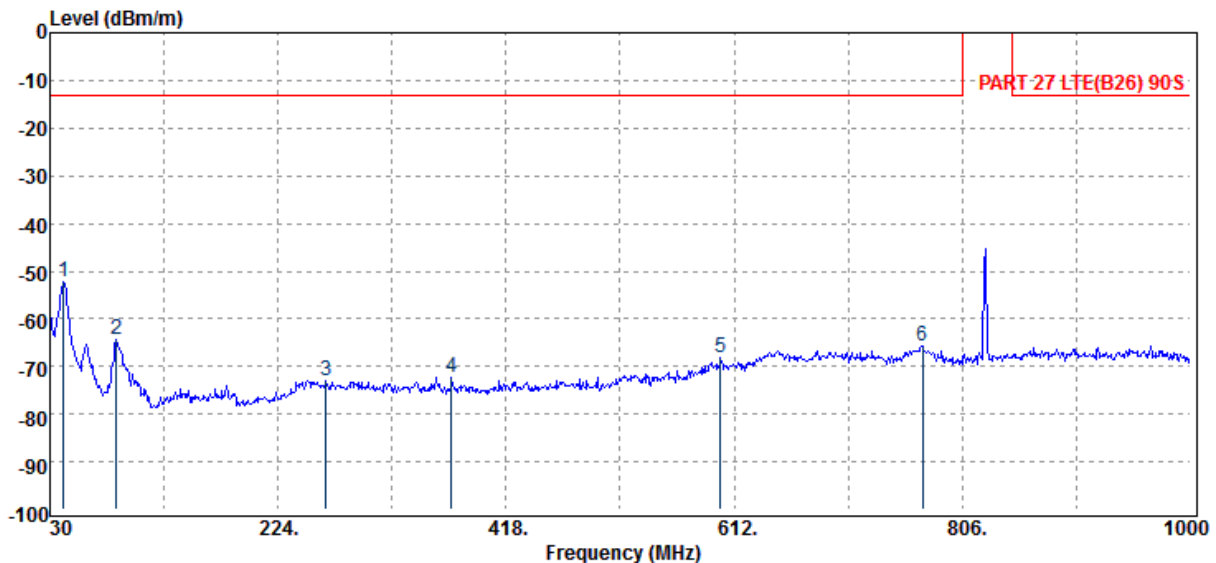
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Operation Band	:LTE B26	Test Date	:2014-06-23
ARFCN	:CH 26915 16QAM BW 1.4 RB1 5	Temp./Humi.	:22.1 deg_C / 68 RH
Fundamental Frequency	:836.5 MHz	Engineer	:Curry
Operation Mode	:TX MID	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:E1 Plane		



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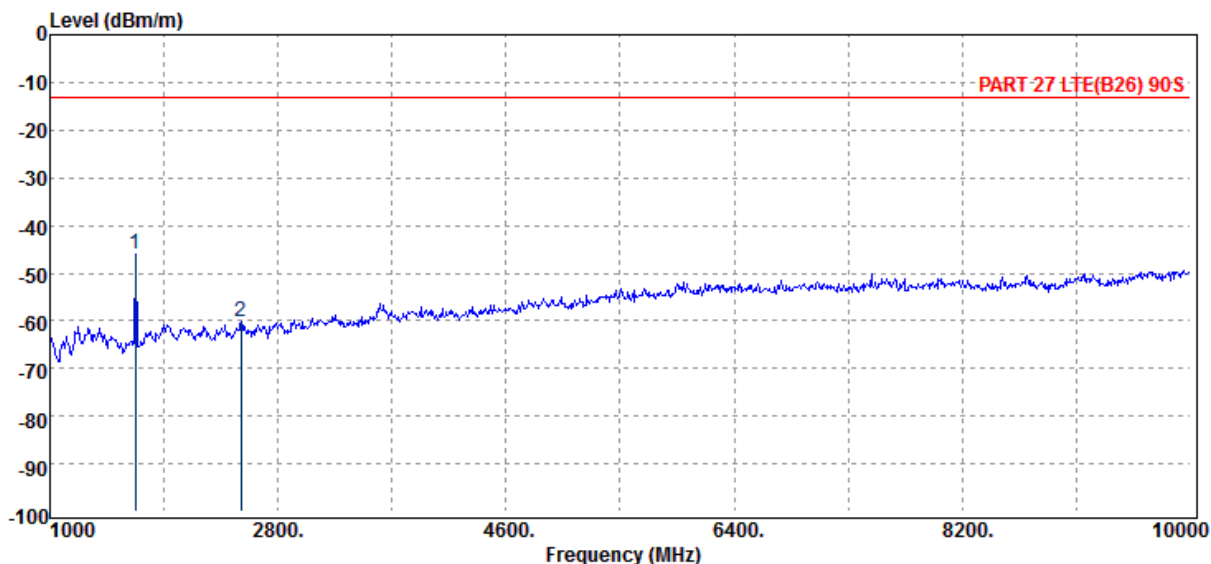
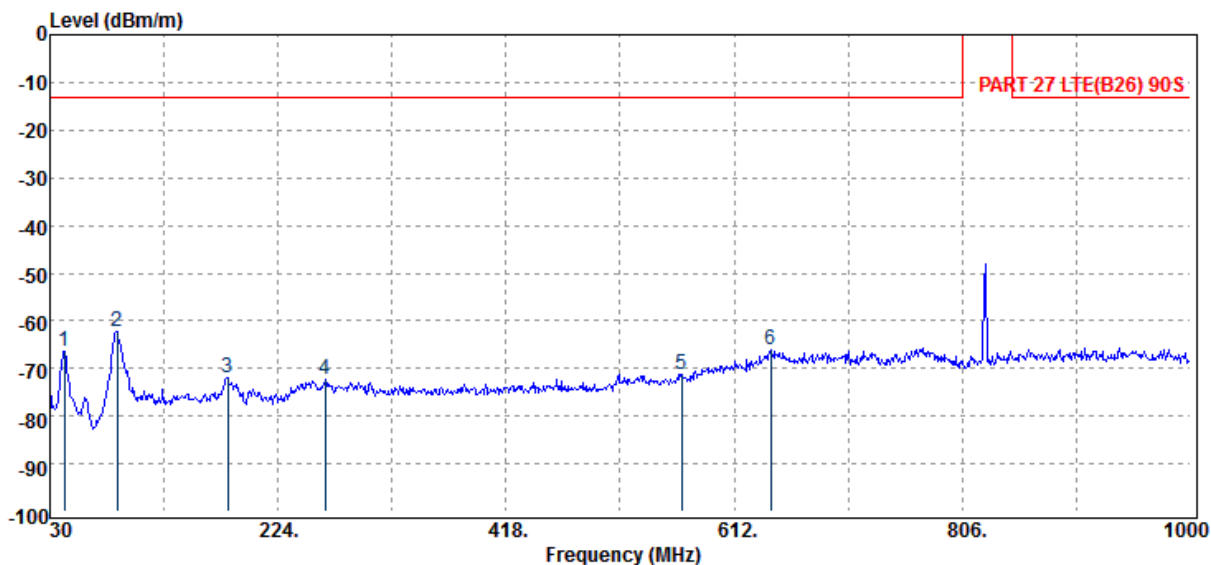
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Operation Band	:LTE B26	Test Date	:2014-06-23
ARFCN	:CH 26915 16QAM BW 1.4 RB1 5	Temp./Humi.	:22.1 deg_C / 68 RH
Fundamental Frequency	:836.5 MHz	Engineer	:Curry
Operation Mode	:TX MID	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:E1 Plane		



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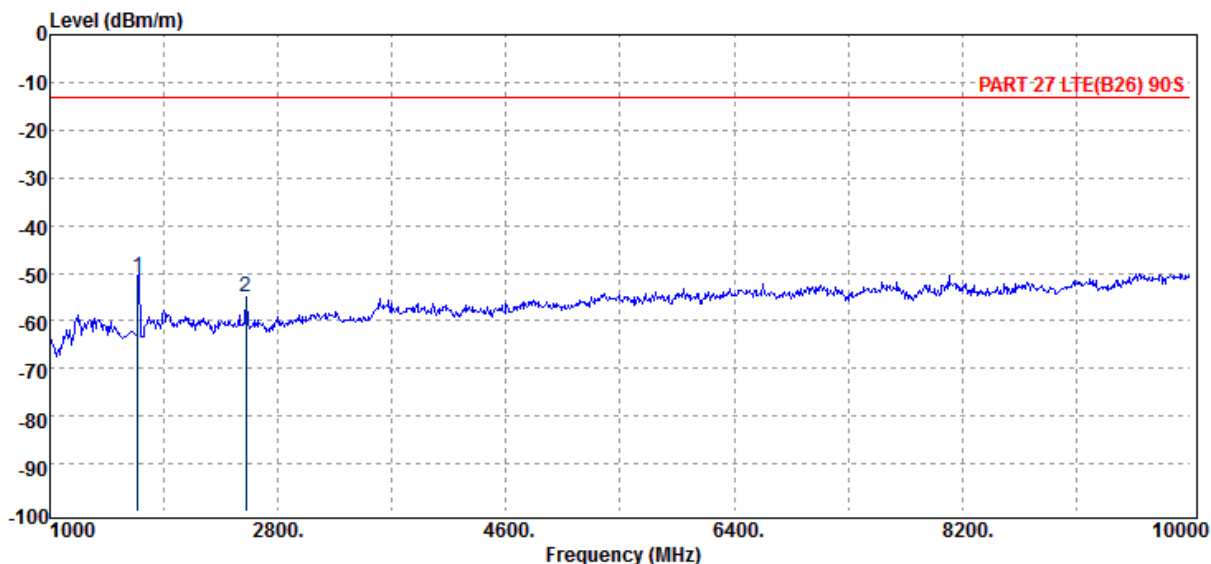
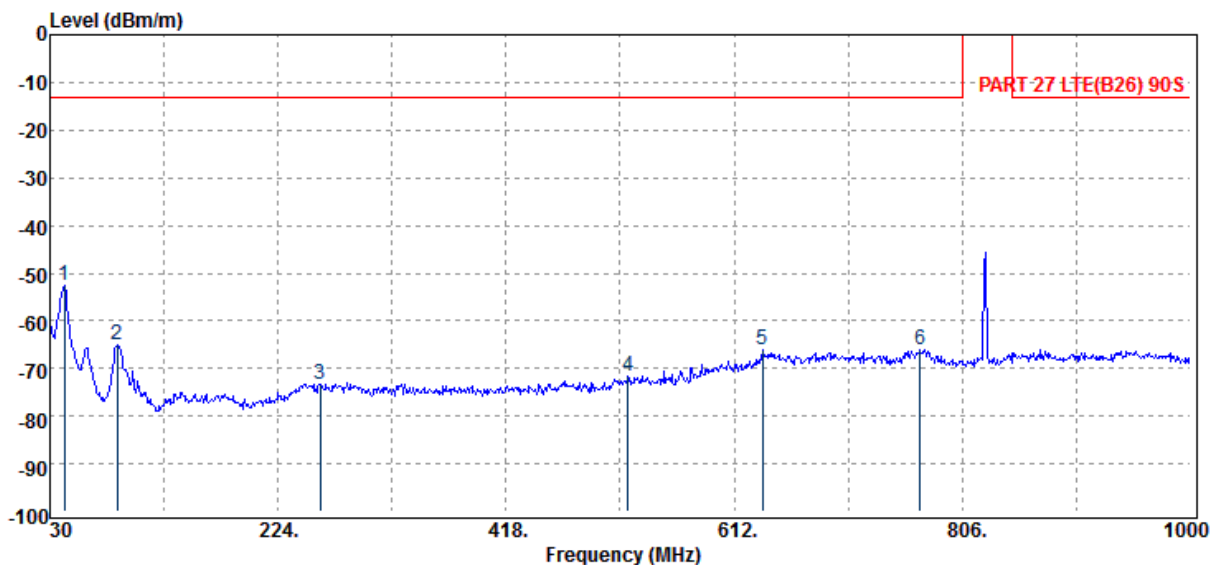
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Operation Band	:LTE B26	Test Date	:2014-06-23
ARFCN	:CH 27033 16QAM BW 1.4 RB1 5	Temp./Humi.	:22.1 deg_C / 68 RH
Fundamental Frequency	:848.3 MHz	Engineer	:Curry
Operation Mode	:TX HIGH	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:E1 Plane		



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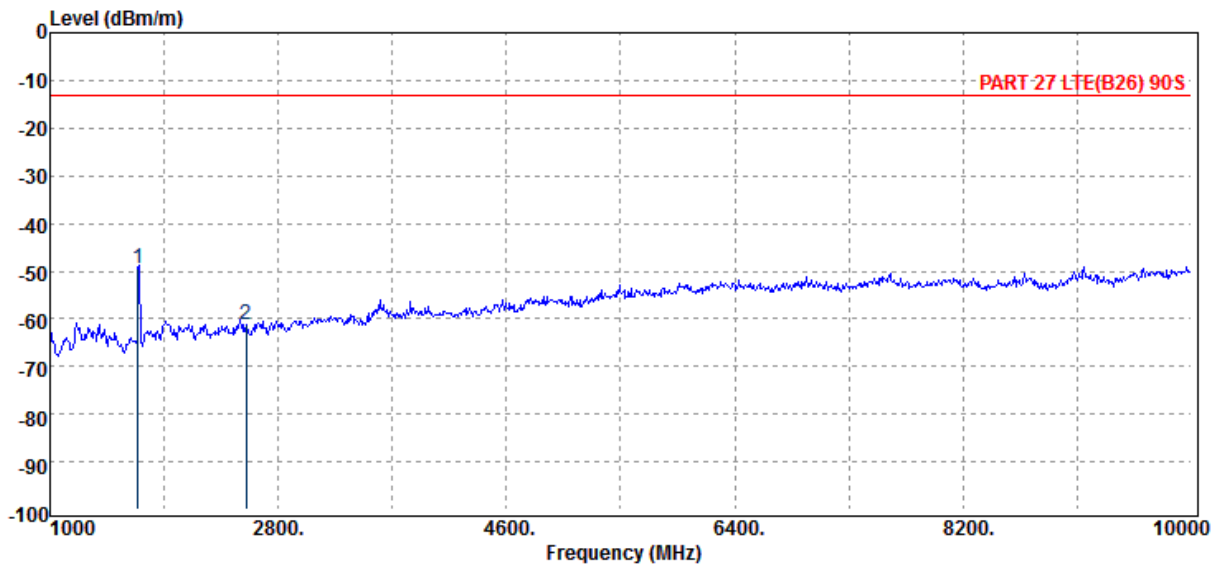
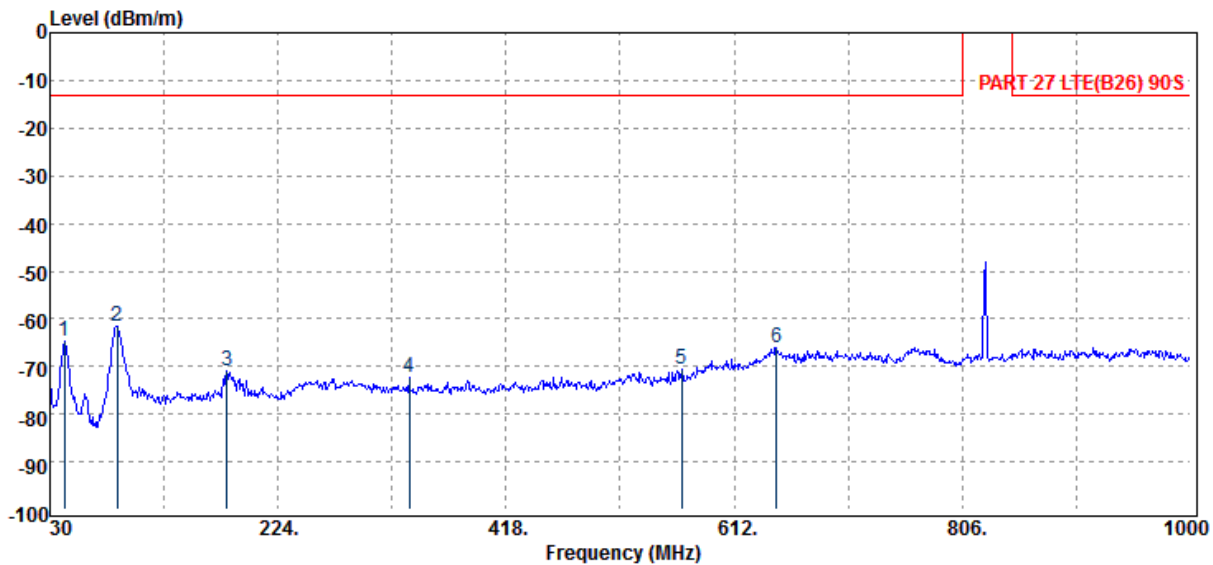
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Operation Band	:LTE B26	Test Date	:2014-06-23
ARFCN	:CH 27033 16QAM	Temp./Humi.	:22.1 deg_C / 68 RH
	BW 1.4 RB1 5	Engineer	:Curry
Fundamental Frequency	:848.3 MHz	Measurement Antenna Pol.	:HORIZONTAL
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plane		



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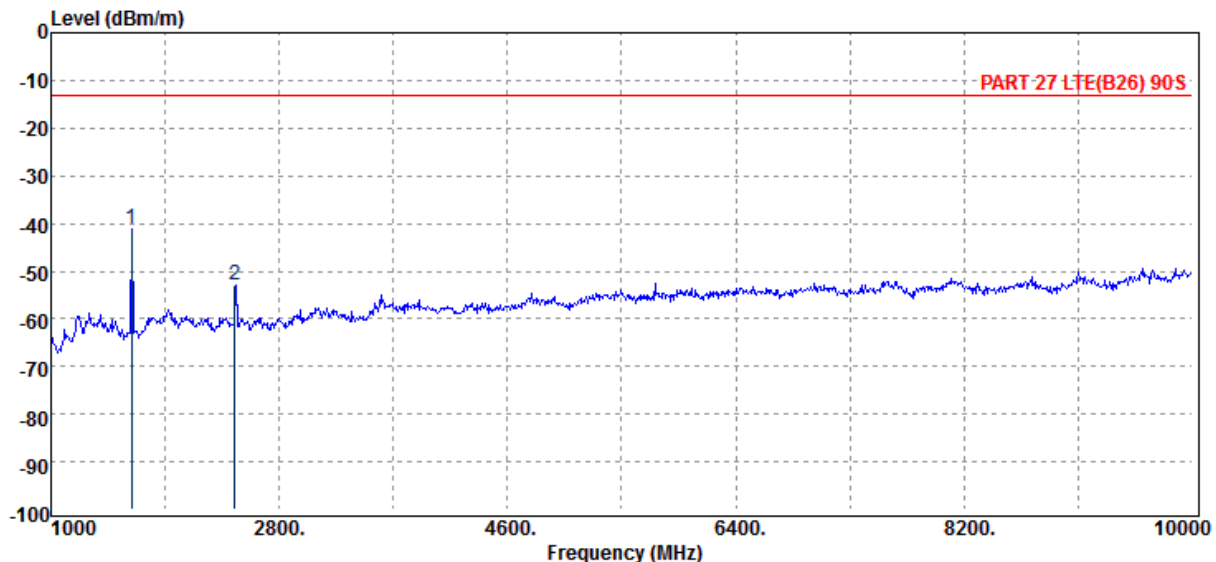
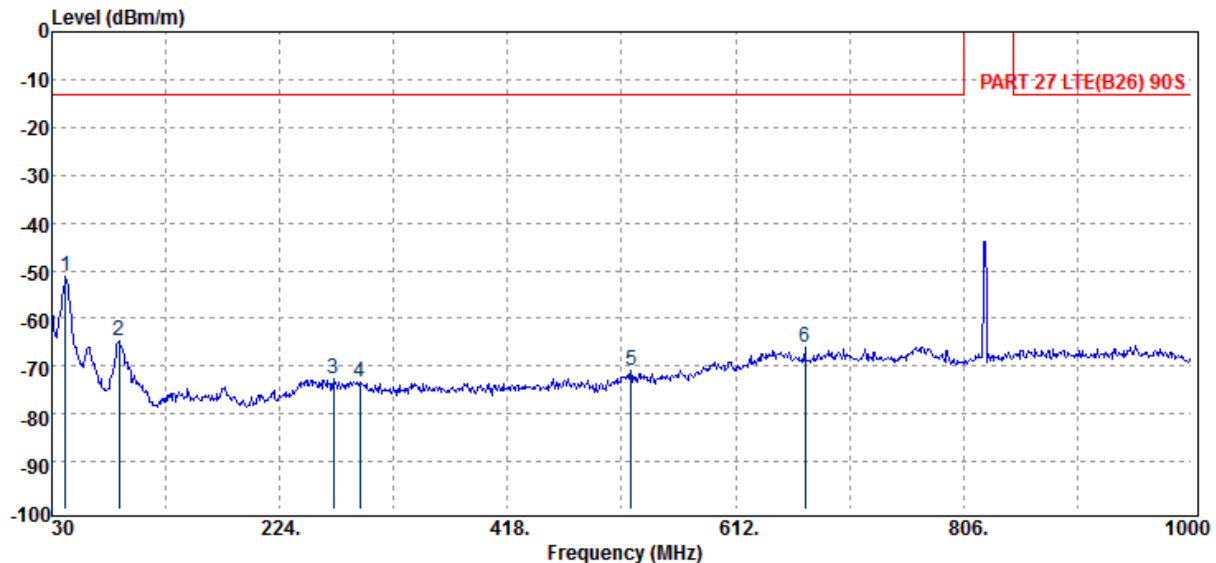
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Radiated Spurious Emission Measurement Result: 5MHz BW LTE-Band 26 (The Worst case)

Operation Band	:LTE B26	Test Date	:2014-06-23
ARFCN	:CH 26715 16QAM BW 5 RB1 24	Temp./Humi.	:22.1 deg_C / 68 RH
Fundamental Frequency	:816.5 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



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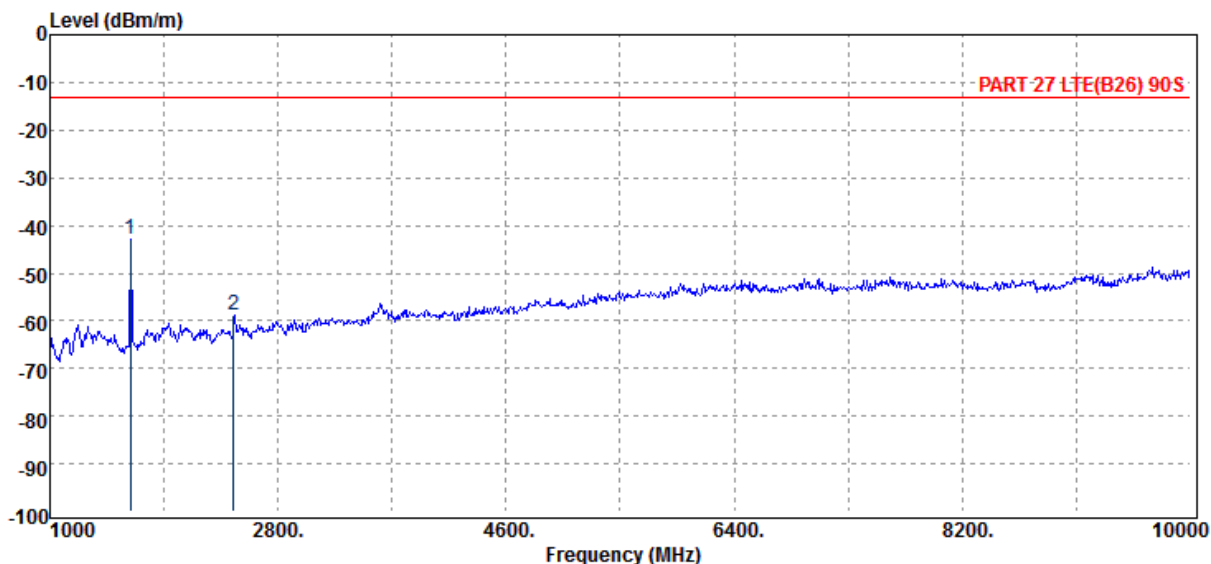
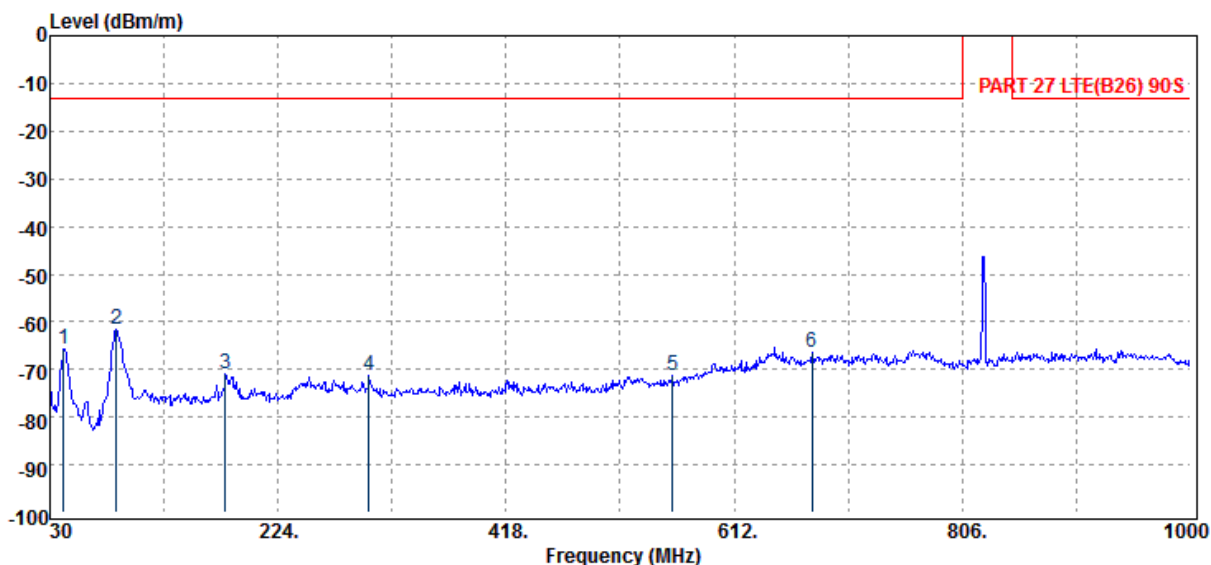
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Operation Band	:LTE B26	Test Date	:2014-06-23
ARFCN	:CH 26715 16QAM BW 5 RB1 24	Temp./Humi.	:22.1 deg_C / 68 RH
Fundamental Frequency	:816.5 MHz	Engineer	:Curry
Operation Mode	:TX LOW	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:E1 Plane		



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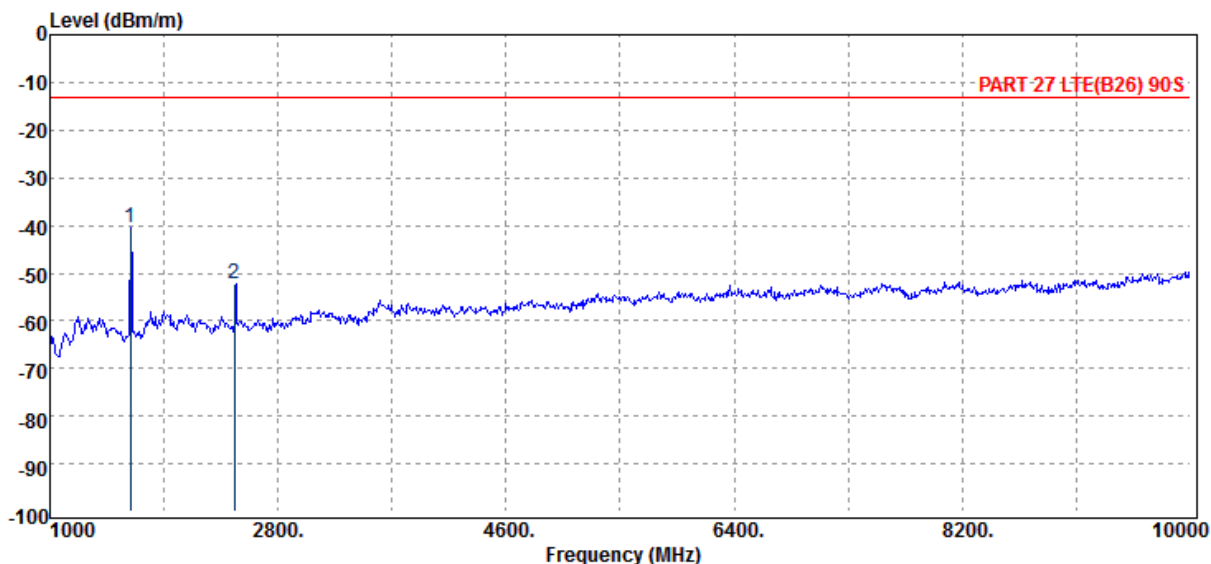
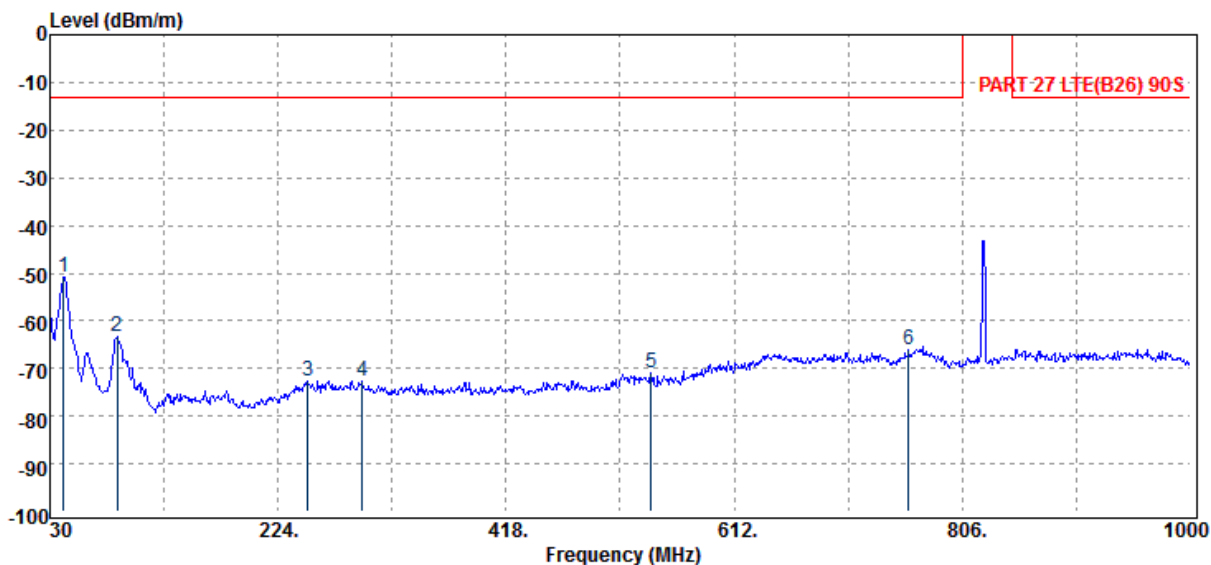
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Operation Band	:LTE B26	Test Date	:2014-06-23
ARFCN	:CH 26740 16QAM BW 5 RB1 24	Temp./Humi.	:22.1 deg_C / 68 RH
Fundamental Frequency	:819.0 MHz	Engineer	:Curry
Operation Mode	:TX MID	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:E1 Plane		



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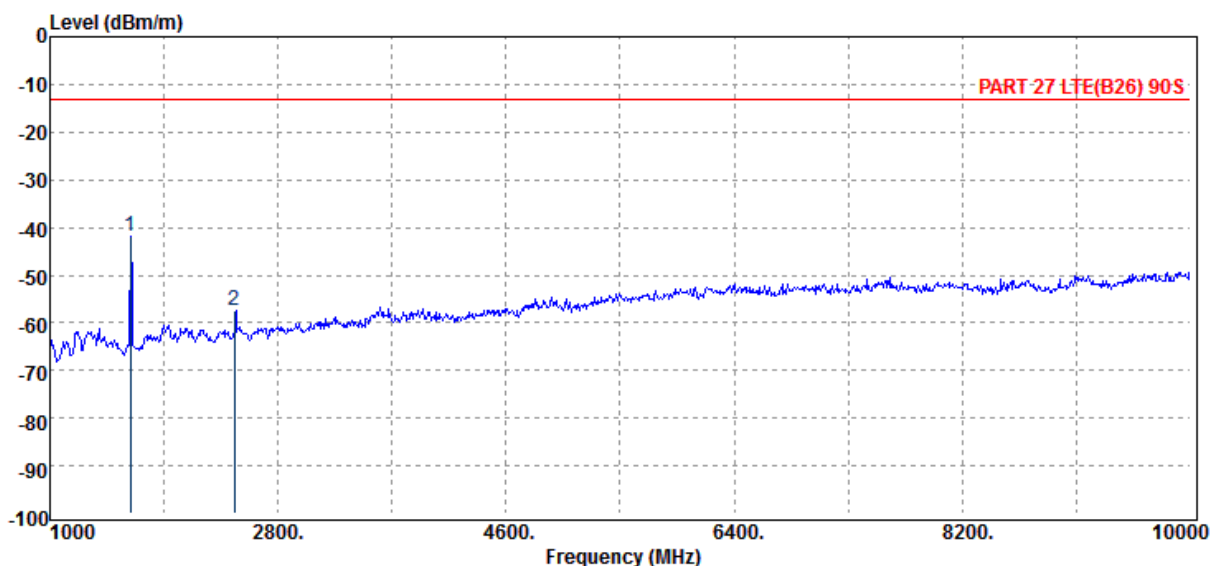
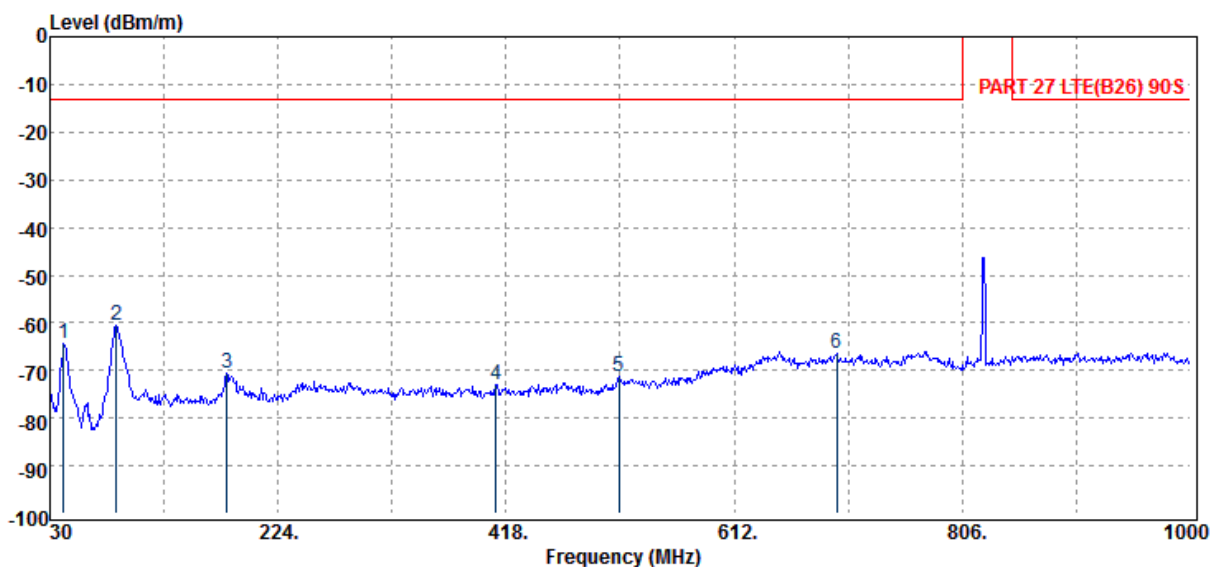
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Operation Band	:LTE B26	Test Date	:2014-06-23
ARFCN	:CH 26740 16QAM BW 5 RB1 24	Temp./Humi.	:22.1 deg_C / 68 RH
Fundamental Frequency	:819.0 MHz	Engineer	:Curry
Operation Mode	:TX MID	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:E1 Plane		



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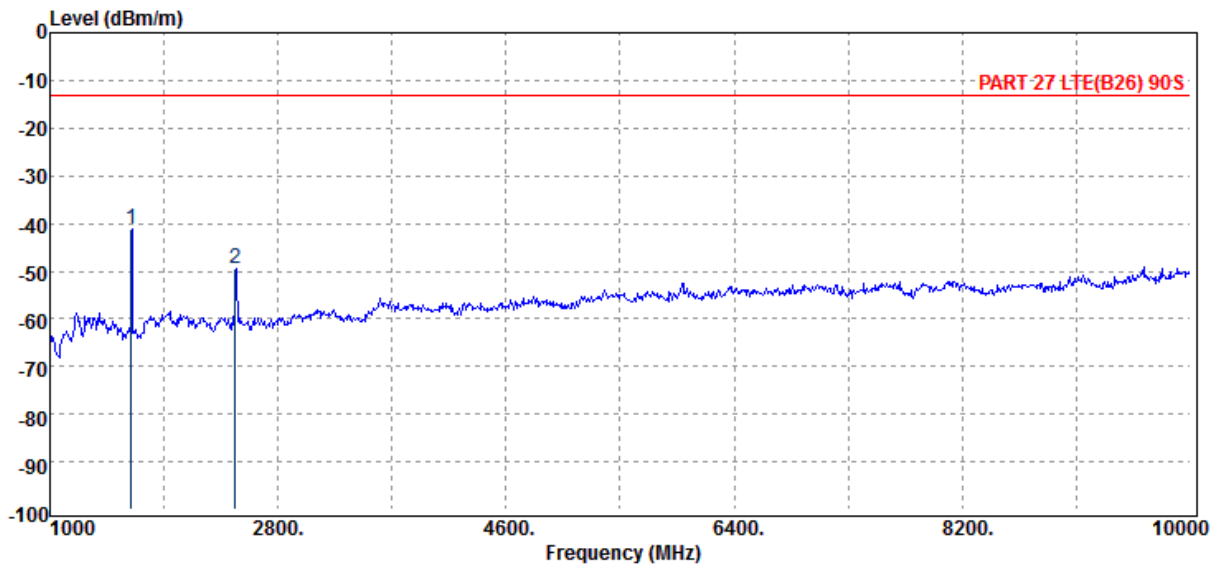
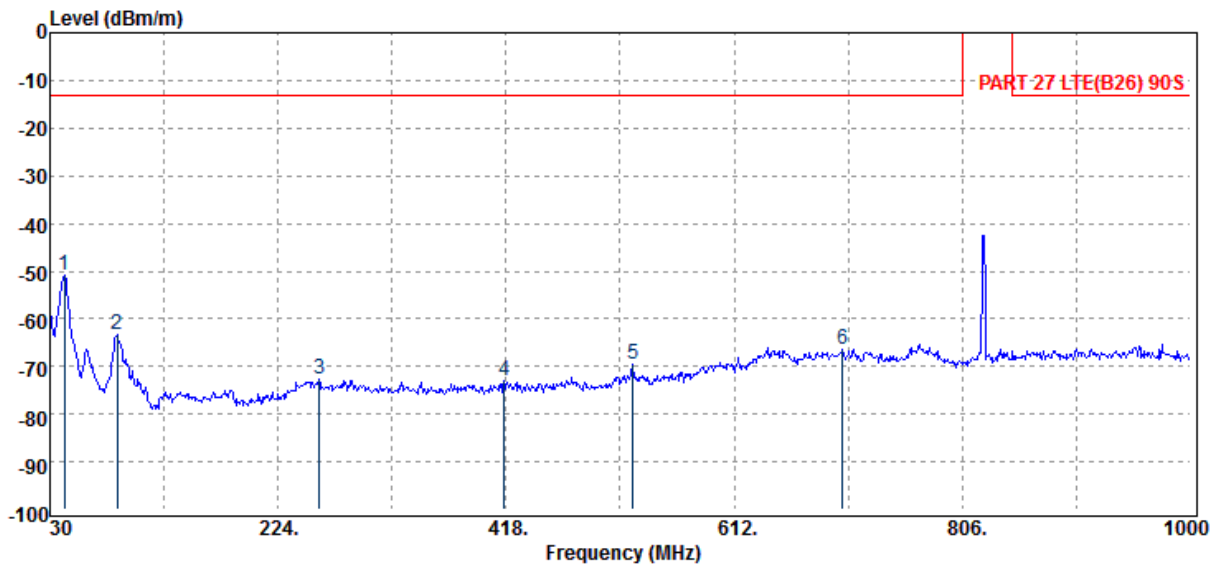
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Operation Band	:LTE B26	Test Date	:2014-06-23
ARFCN	:CH 26765 16QAM BW 5 RB1 24	Temp./Humi.	:22.1 deg_C / 68 RH
Fundamental Frequency	:821.5 MHz	Engineer	:Curry
Operation Mode	:TX HIGH	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:E1 Plane		



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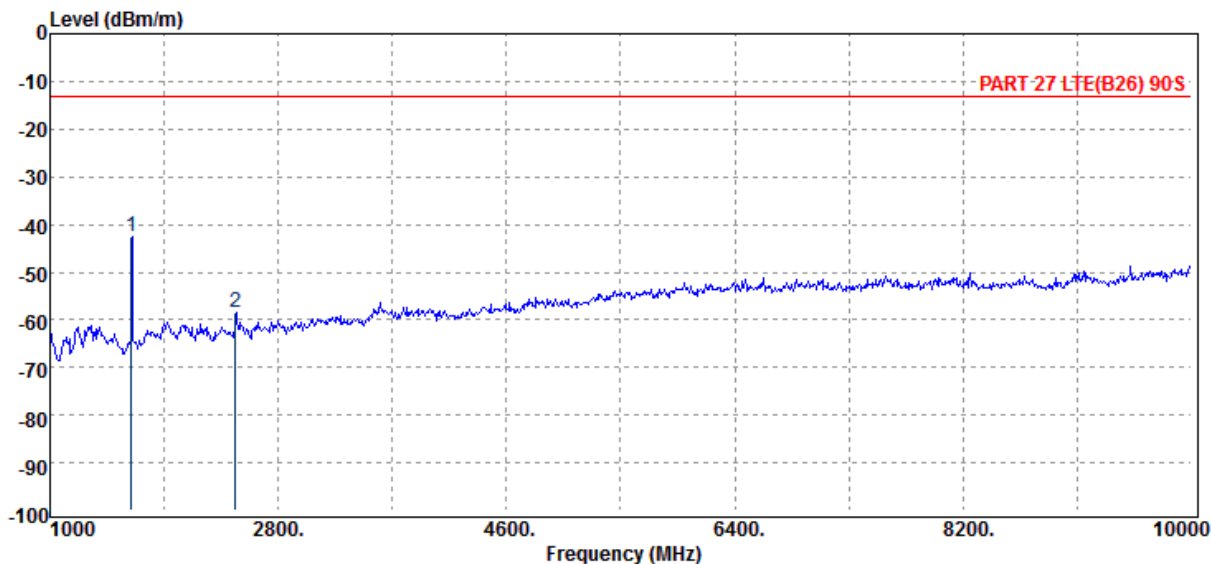
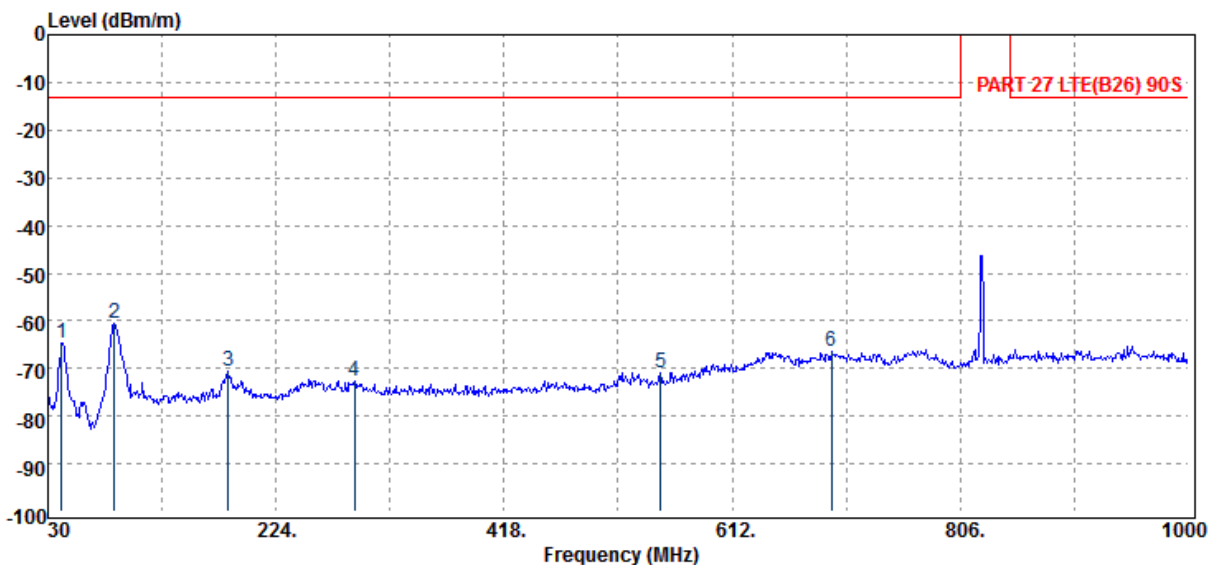
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Operation Band	:LTE B26	Test Date	:2014-06-23
ARFCN	:CH 26765 16QAM BW 5 RB1 24	Temp./Humi.	:22.1 deg_C / 68 RH
Fundamental Frequency	:821.5 MHz	Engineer	:Curry
Operation Mode	:TX HIGH	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:E1 Plane		



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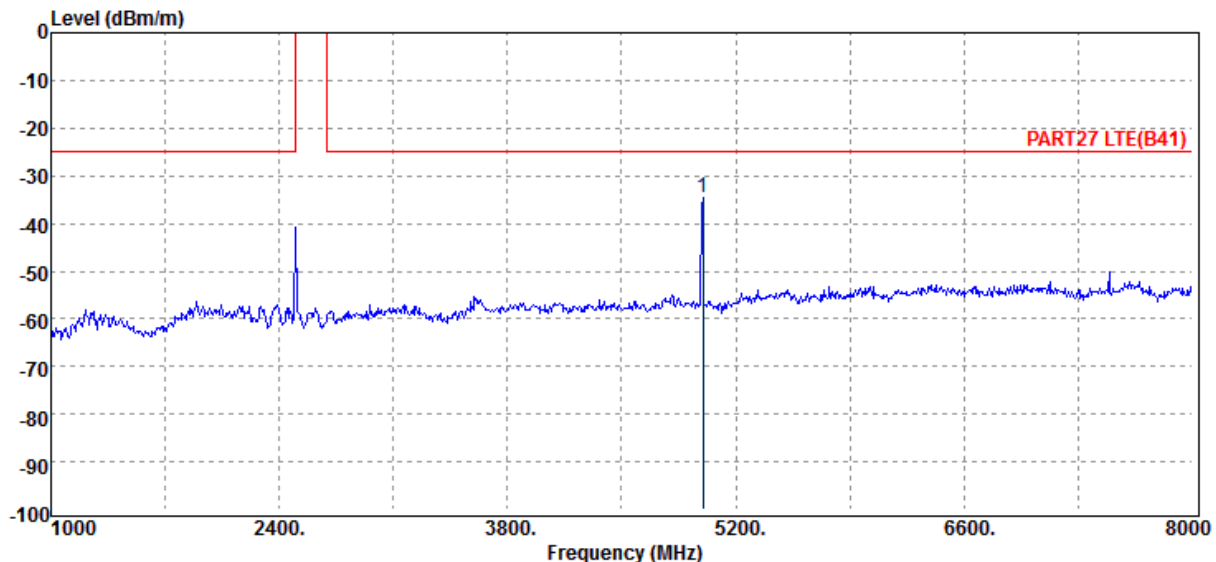
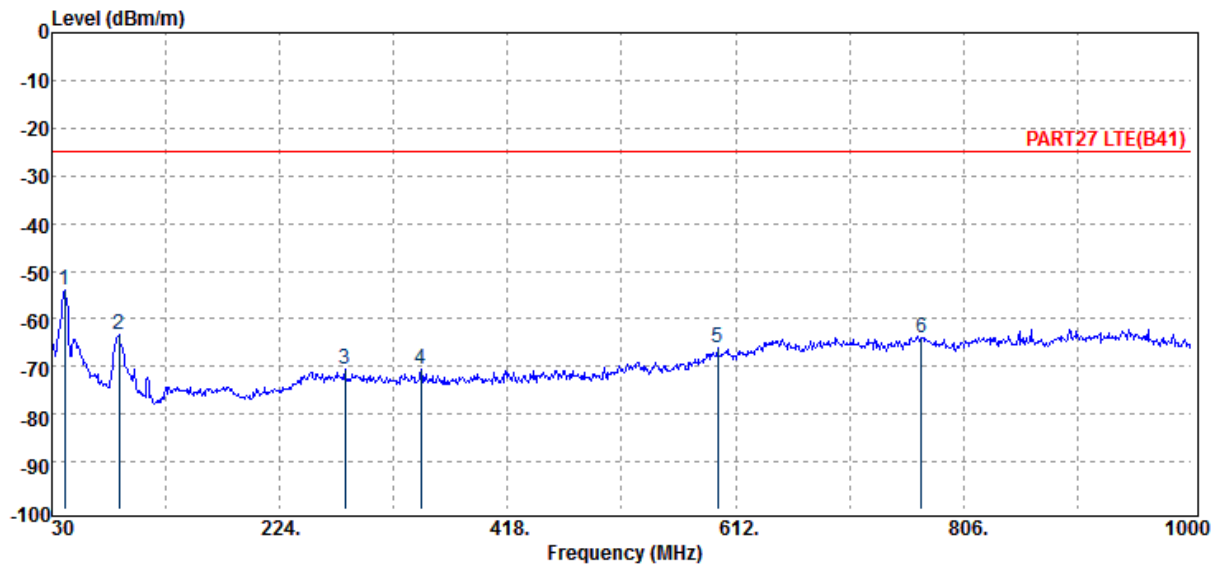
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Radiated Spurious Emission Measurement Result: 15MHz BW LTE-Band 41 (The Worst case)

Operation Band	:LTE B41	Test Date	:2014-06-23
ARFCN	:CH 39725 16QAM BW 15 RB1 0	Temp./Humi.	:22.1 deg_C / 68 RH
Fundamental Frequency	:2503.5 MHz	Engineer	:Curry
Operation Mode	:TX LOW	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:E2 Plane		



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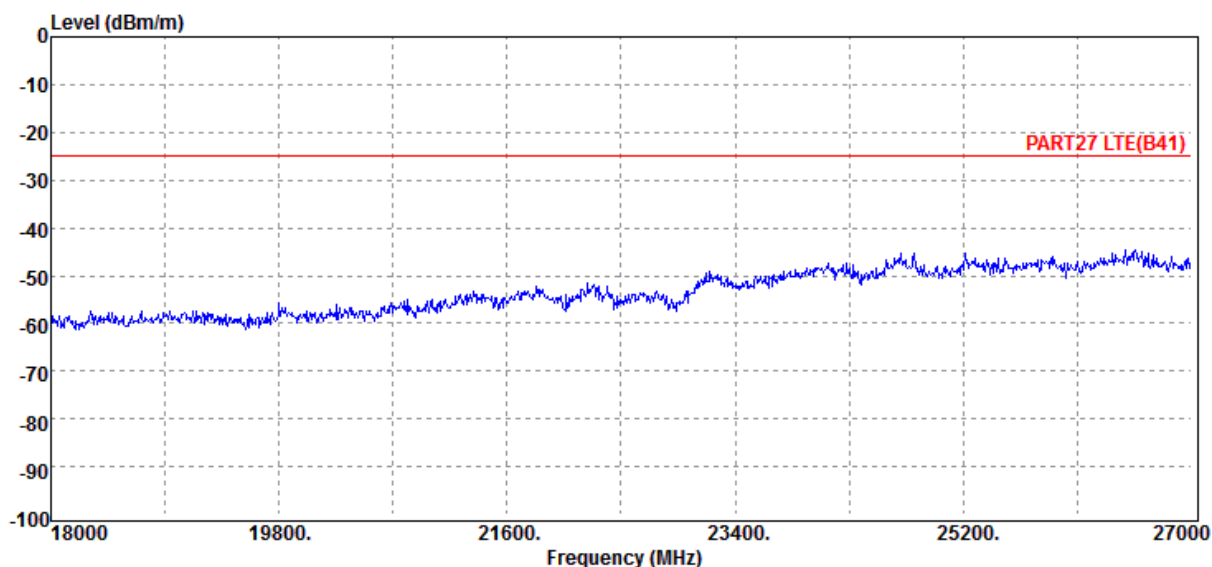
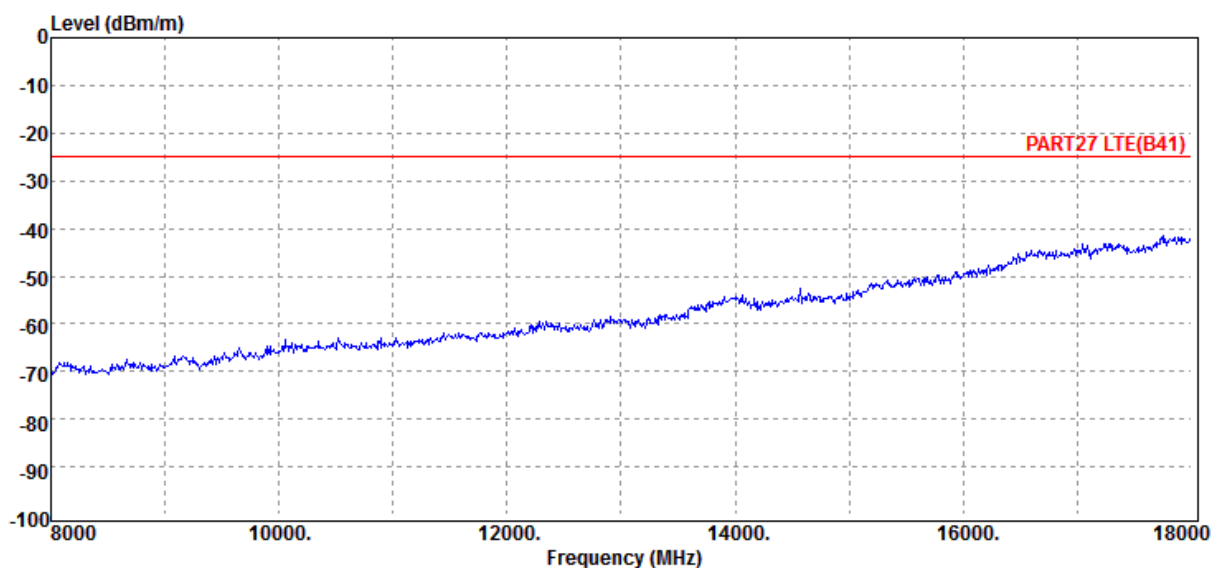
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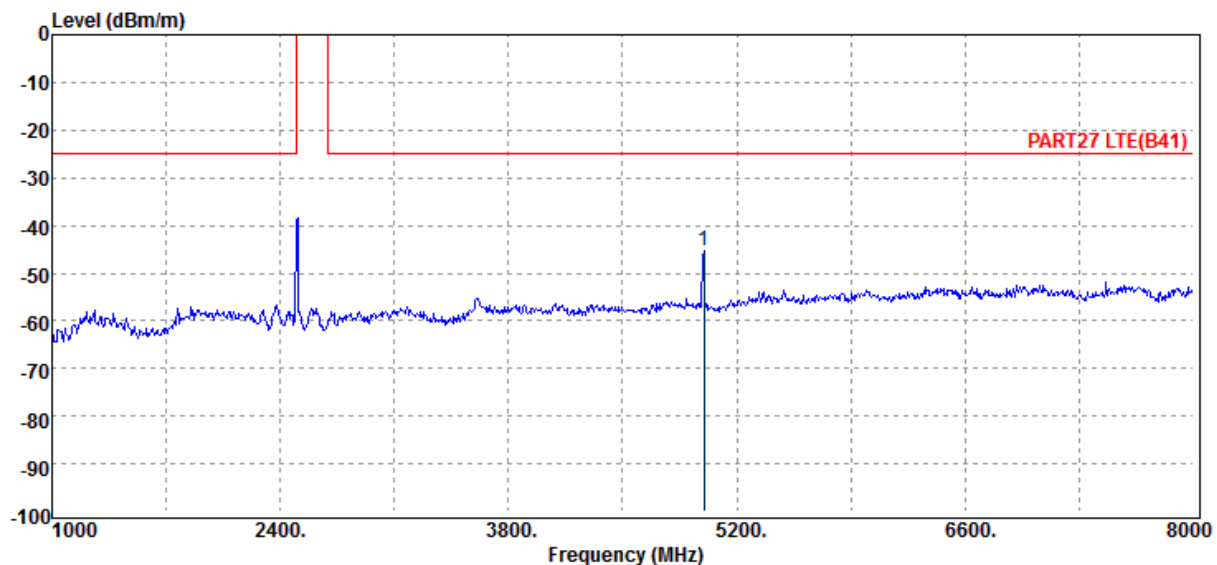
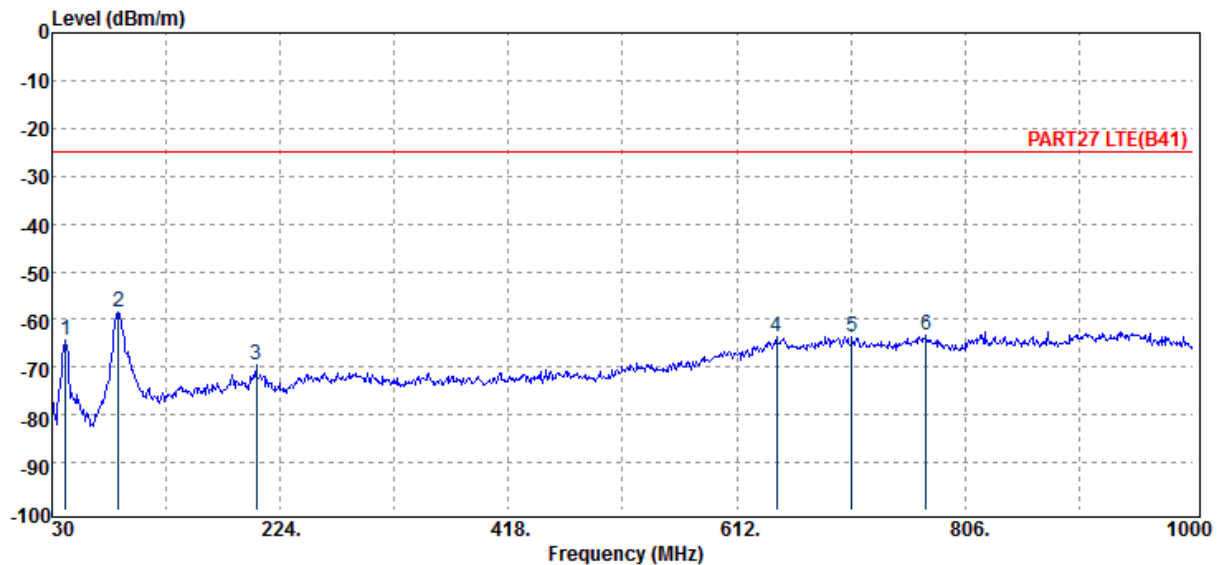
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Operation Band	:LTE B41	Test Date	:2014-06-23
ARFCN	:CH 39725 16QAM BW 15 RB1 0	Temp./Humi.	:22.1 deg_C / 68 RH
Fundamental Frequency	:2503.5 MHz	Engineer	:Curry
Operation Mode	:TX LOW	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:E2 Plane		



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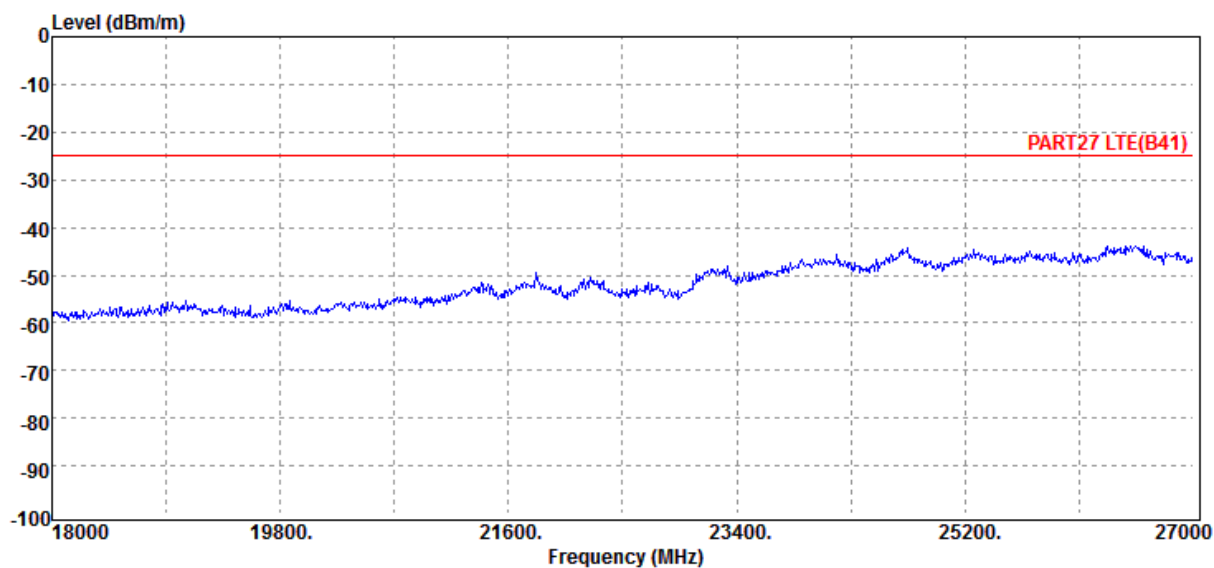
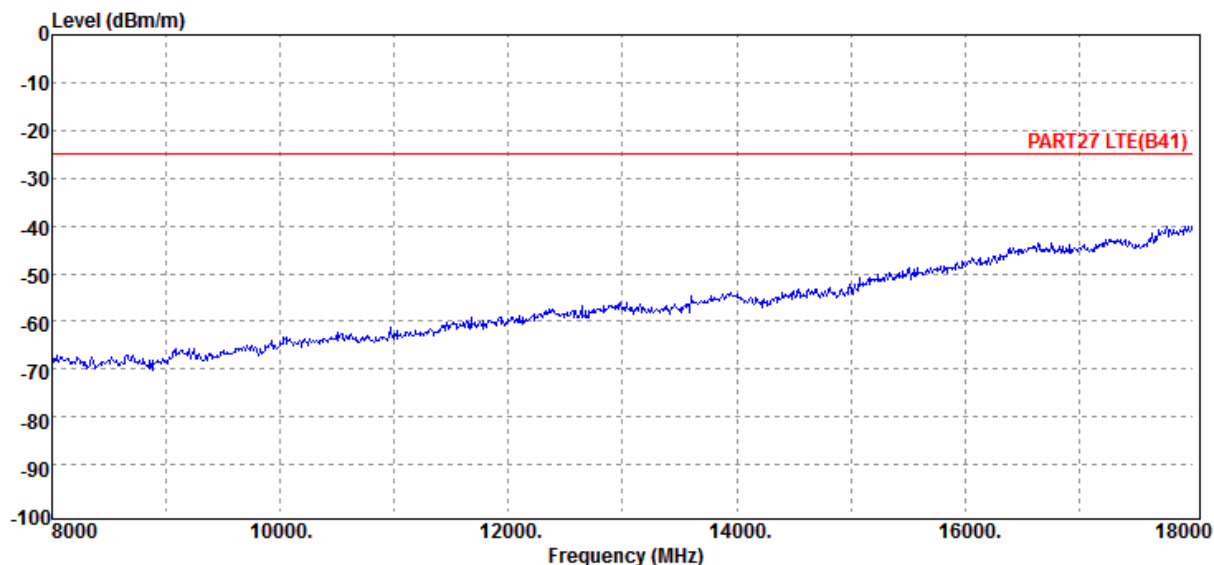
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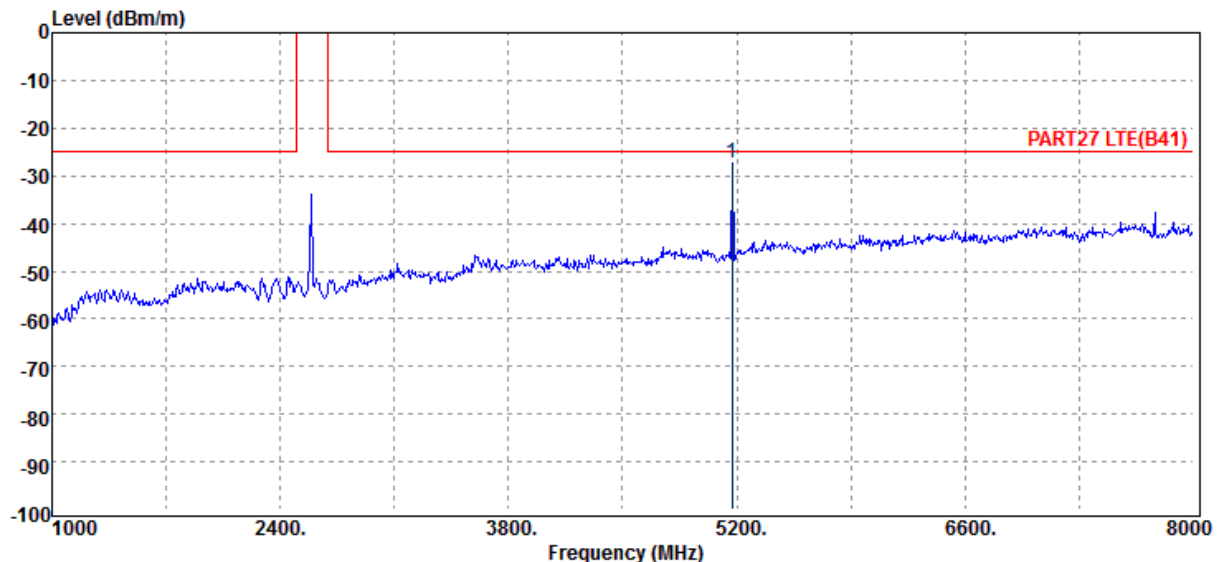
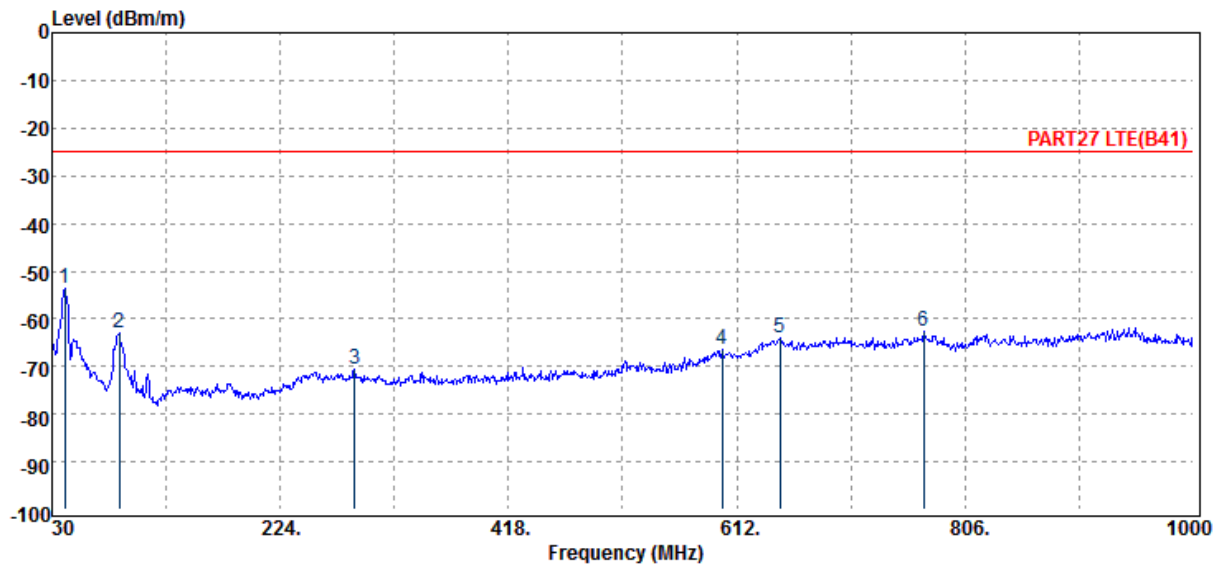
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Operation Band	:LTE B41	Test Date	:2014-06-23
ARFCN	:CH 40620 16QAM BW 15 RB1 0	Temp./Humi.	:22.1 deg_C / 68 RH
Fundamental Frequency	:2593.0 MHz	Engineer	:Curry
Operation Mode	:TX MID	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:E2 Plane		



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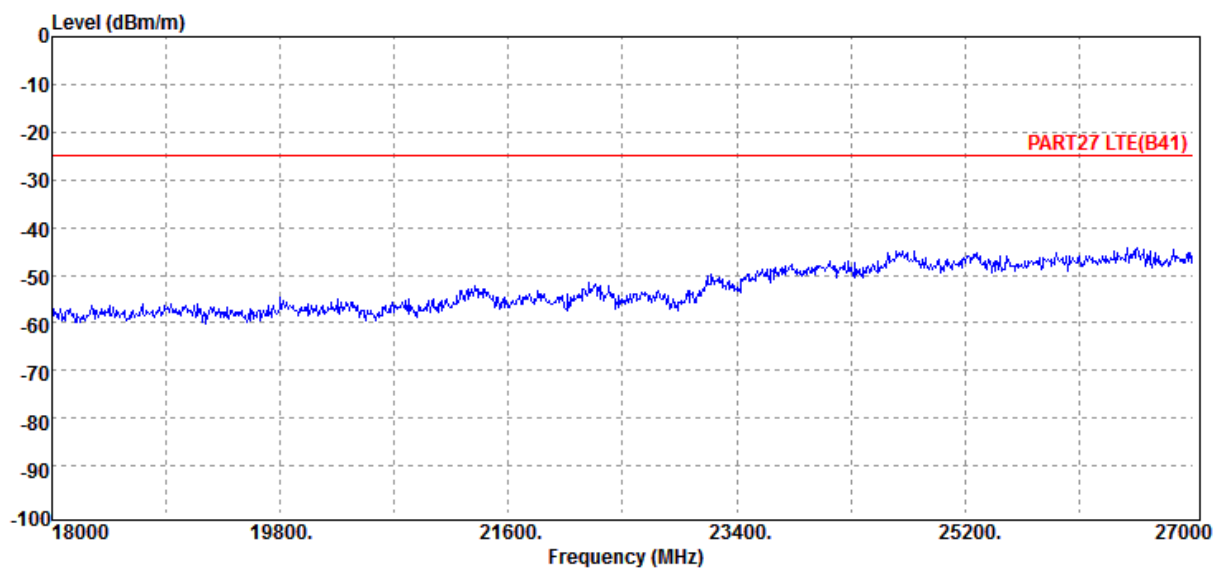
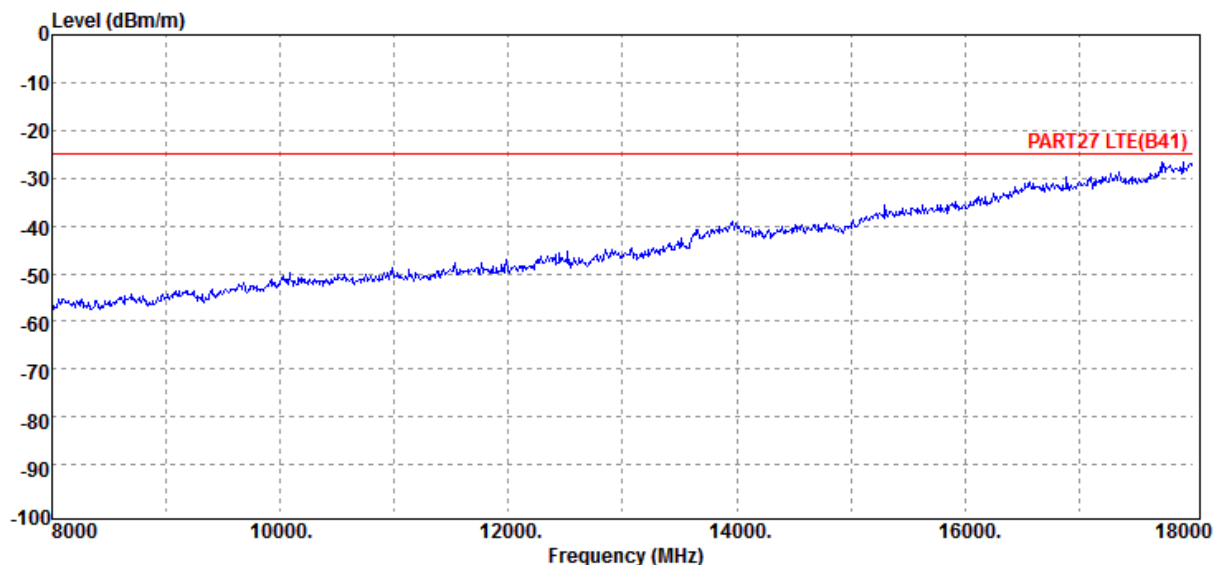
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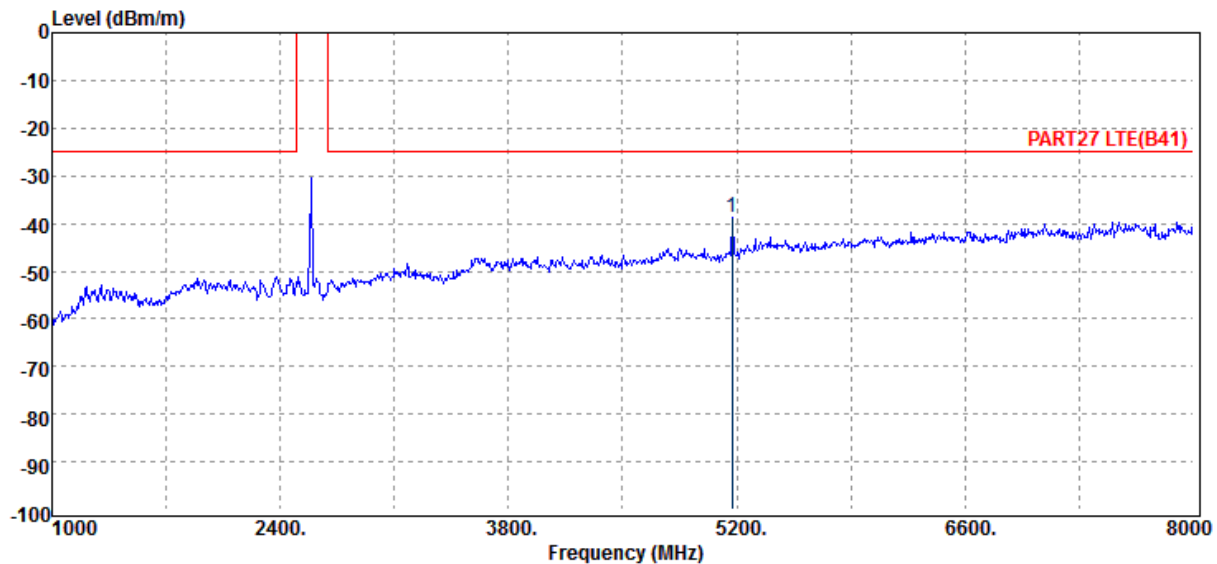
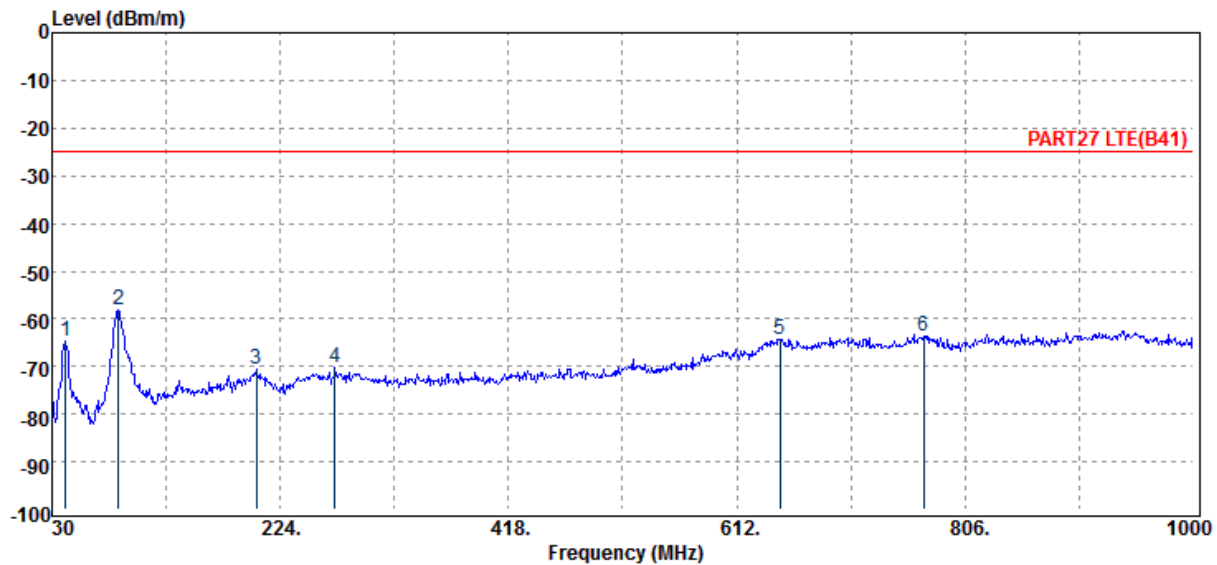
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Operation Band	:LTE B41	Test Date	:2014-06-23
ARFCN	:CH 40620 16QAM BW 15 RB1 0	Temp./Humi.	:22.1 deg_C / 68 RH
Fundamental Frequency	:2593.0 MHz	Engineer	:Curry
Operation Mode	:TX MID	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:E2 Plane		



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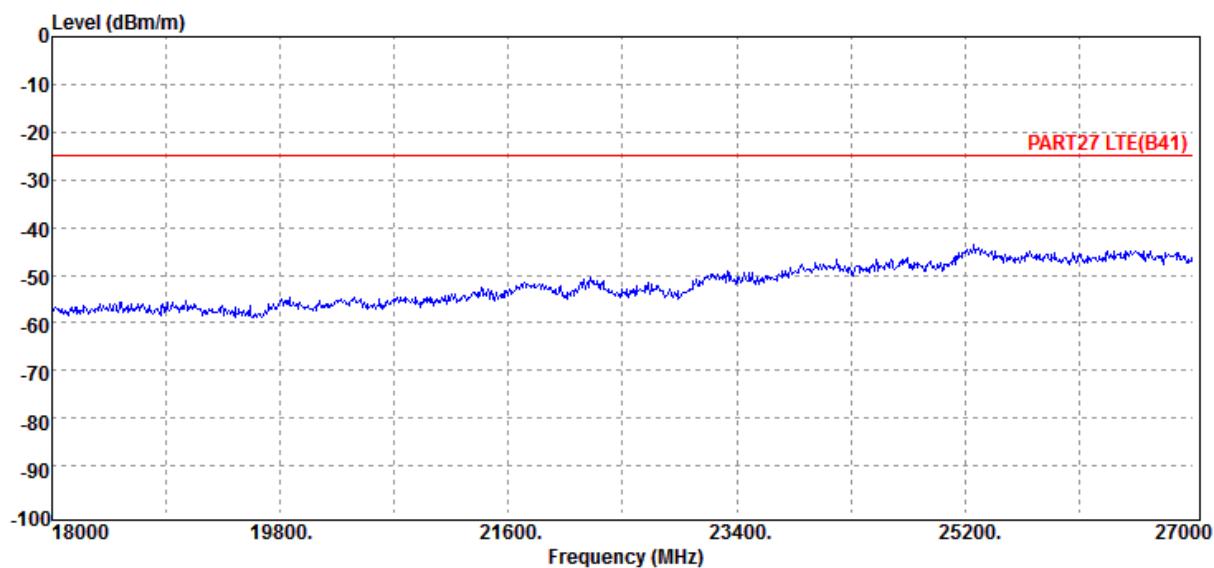
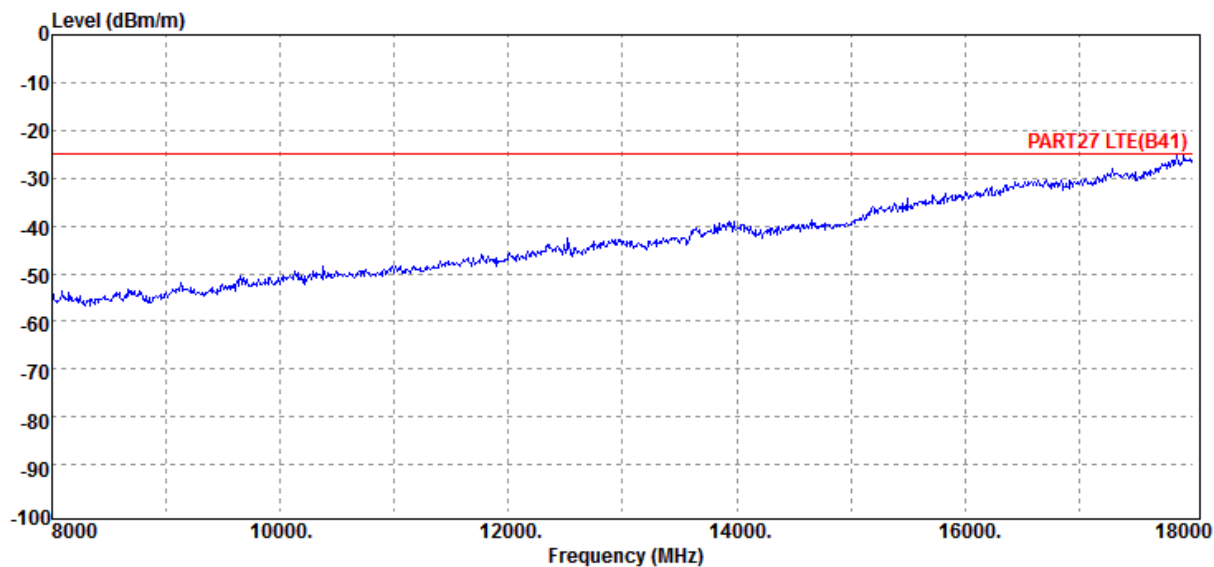
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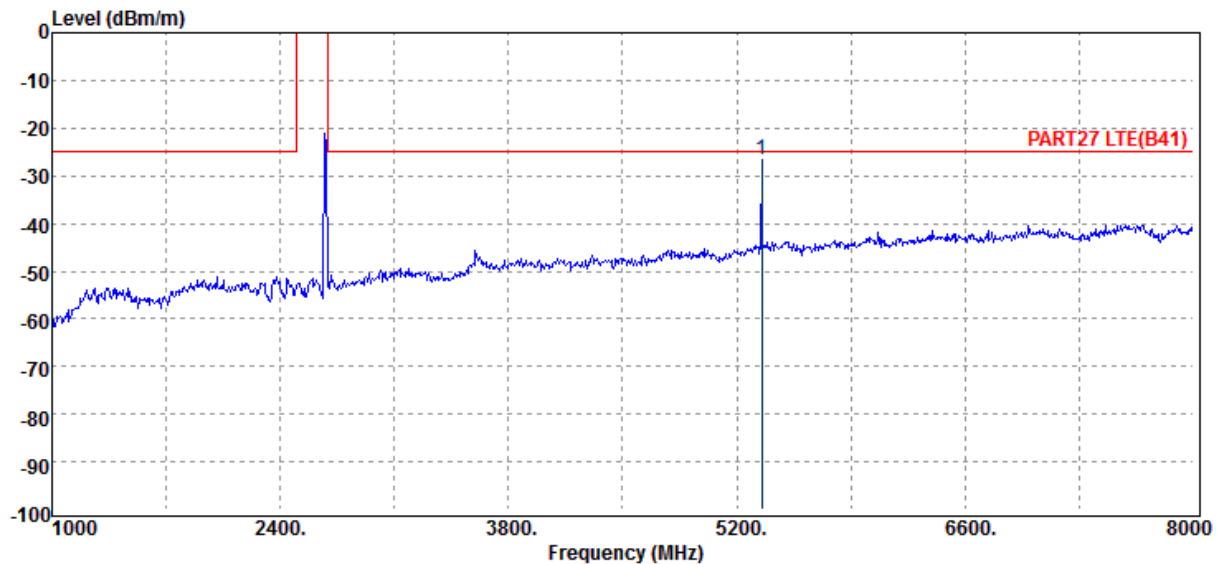
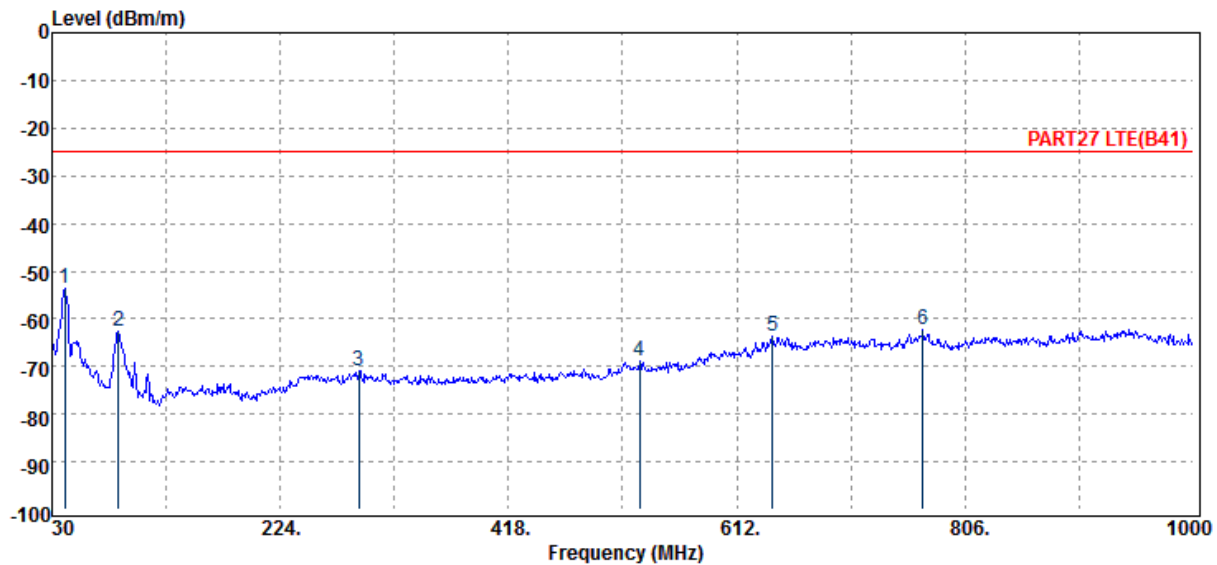
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Operation Band	:LTE B41	Test Date	:2014-06-23
ARFCN	:CH 41515 16QAM BW 15 RB1 0	Temp./Humi.	:22.1 deg_C / 68 RH
Fundamental Frequency	:2682.5MHz	Engineer	:Curry
Operation Mode	:TX HIGH	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:E2 Plane		



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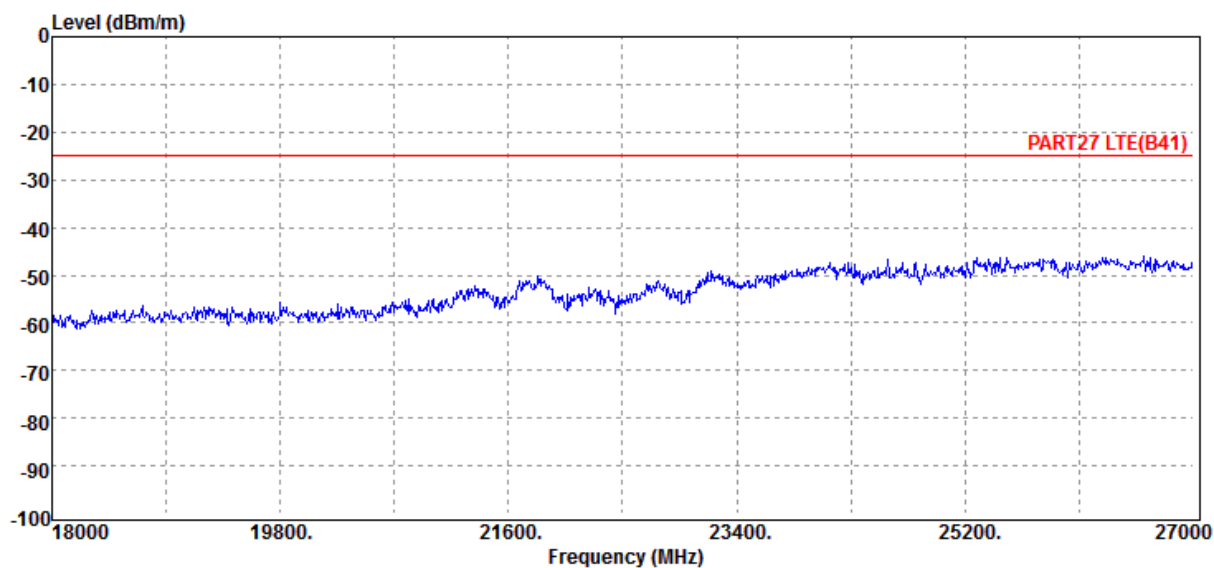
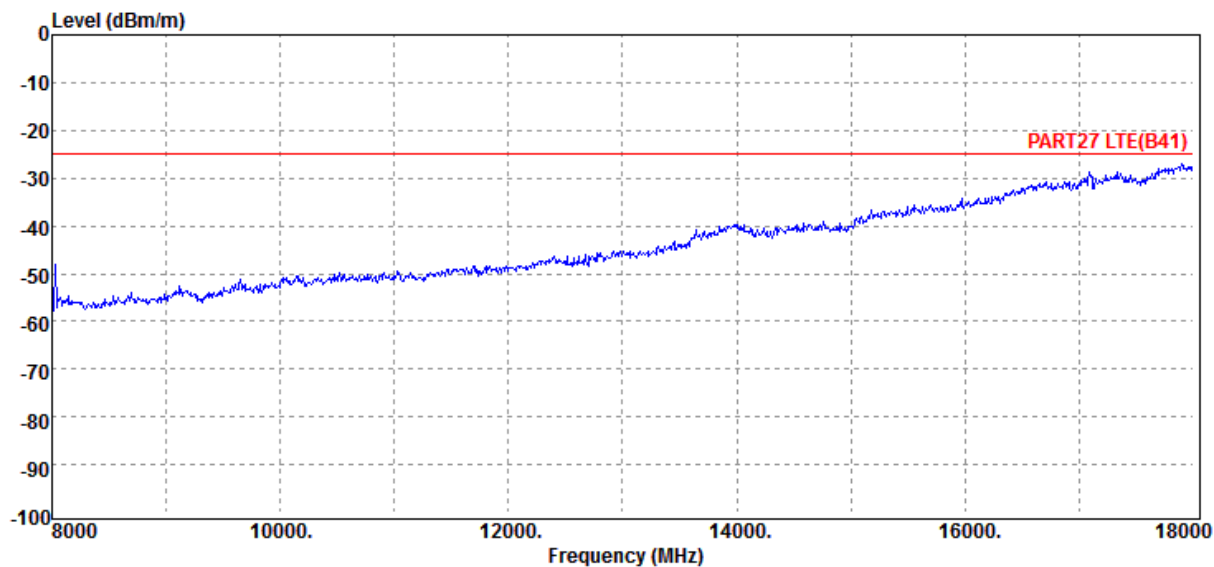
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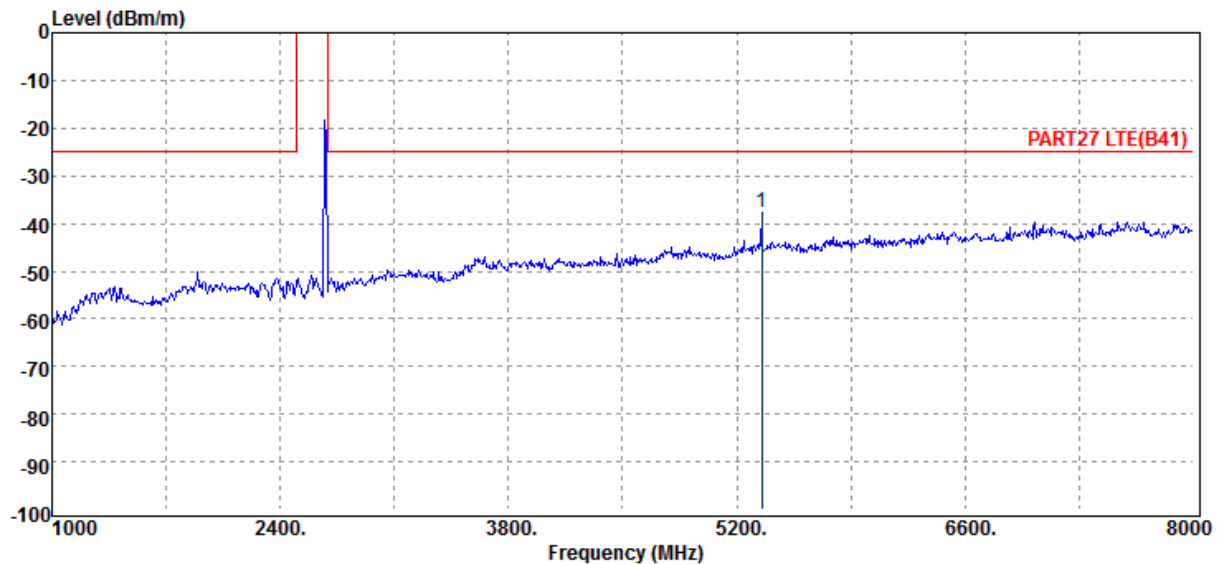
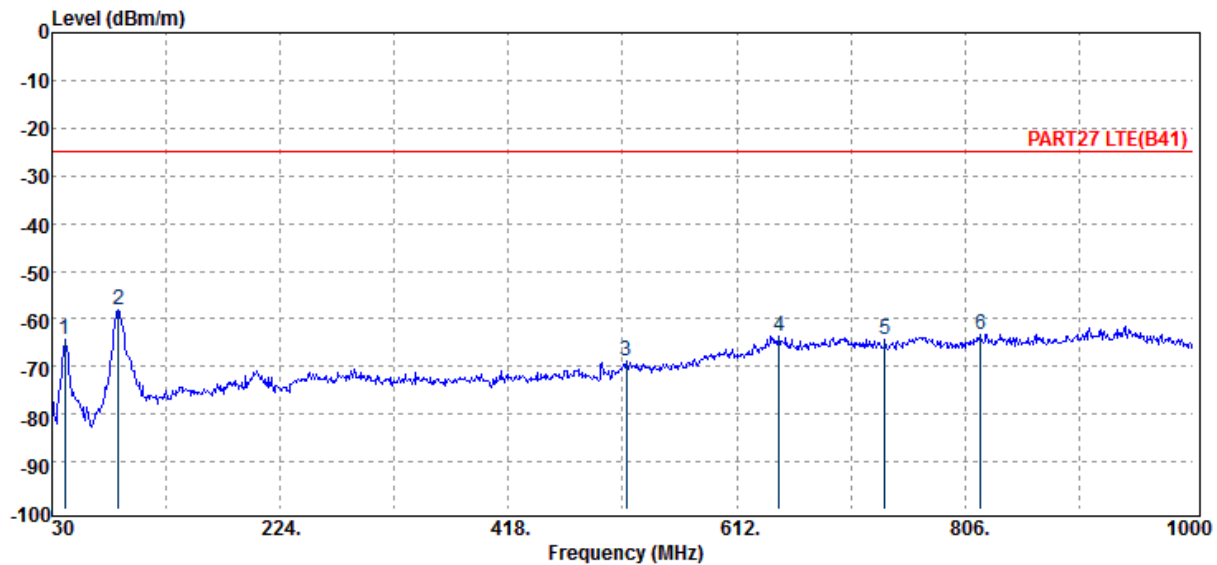
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Operation Band	:LTE B41	Test Date	:2014-06-23
ARFCN	:CH 41515 16QAM BW 15 RB1 0	Temp./Humi.	:22.1 deg_C / 68 RH
Fundamental Frequency	:2682.5MHz	Engineer	:Curry
Operation Mode	:TX HIGH	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:E2 Plane		



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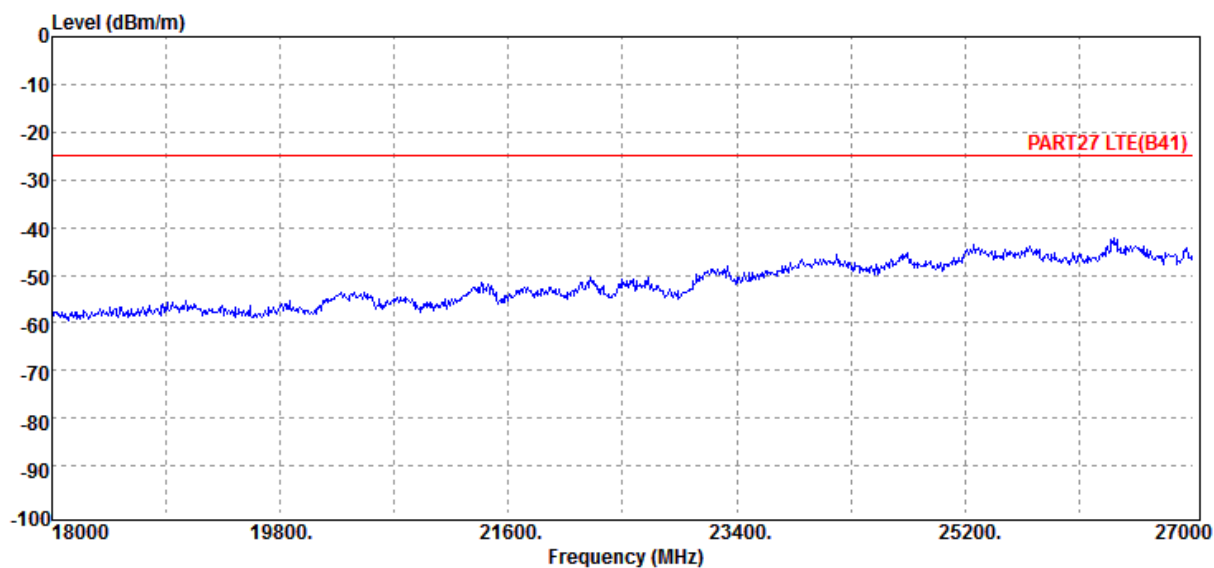
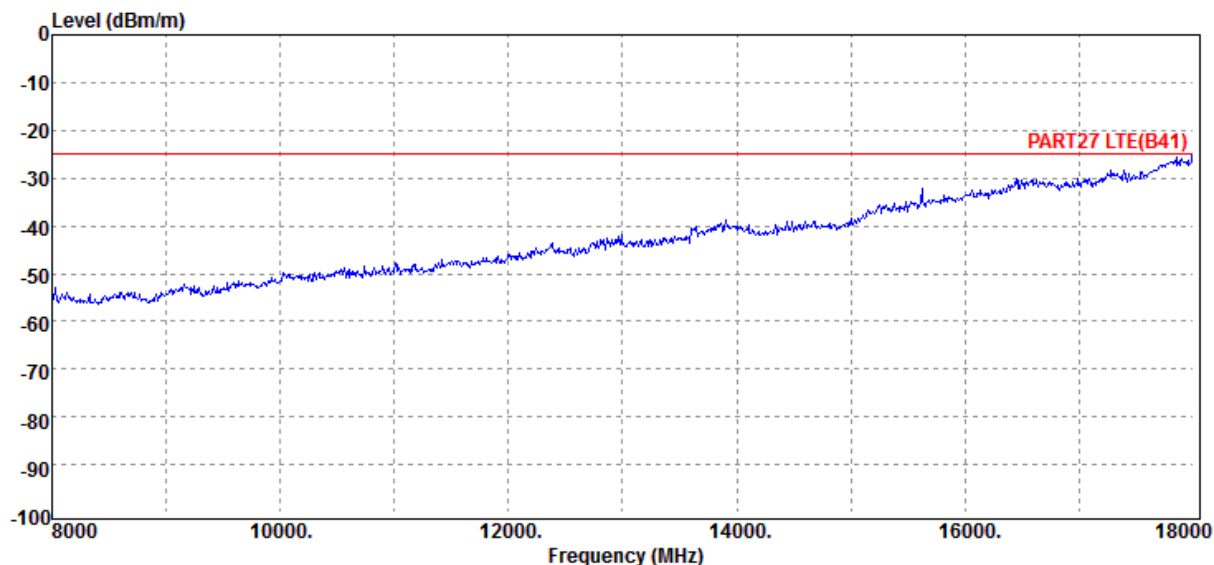
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