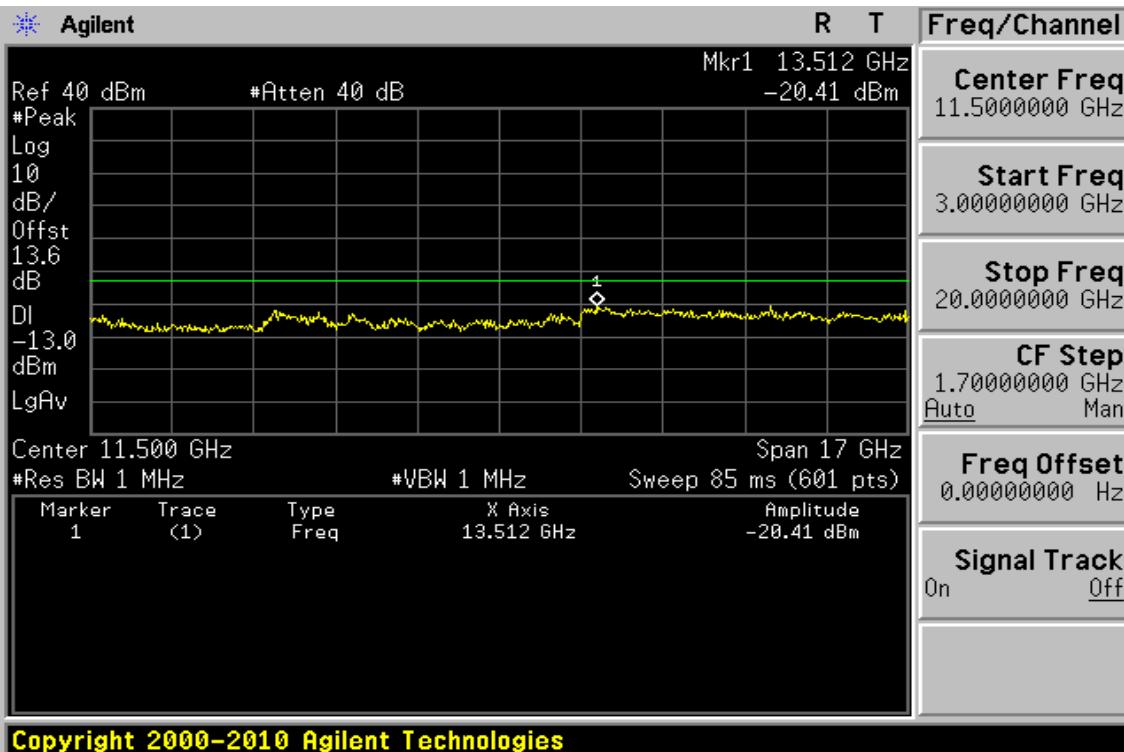
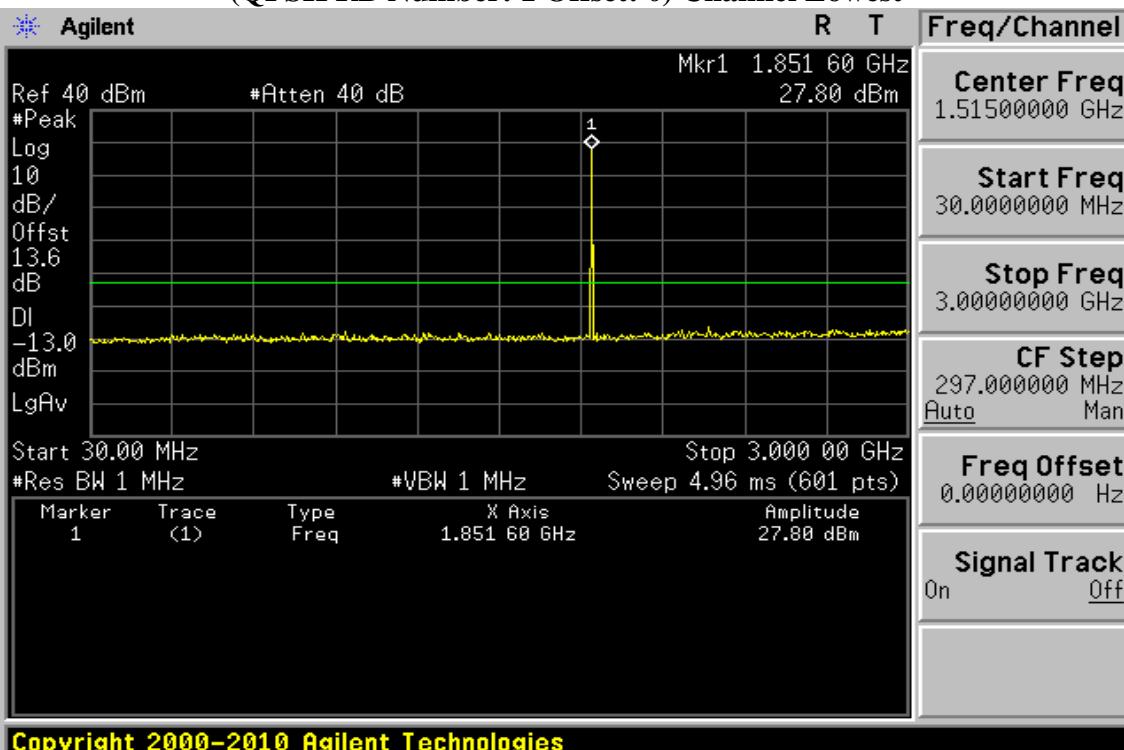


**Figure 10-51: Out of Band emission at antenna terminals—1.4MHz BW LTE-Band 2
(QPSK RB Number: 1 Offset: 0) Channel Lowest**

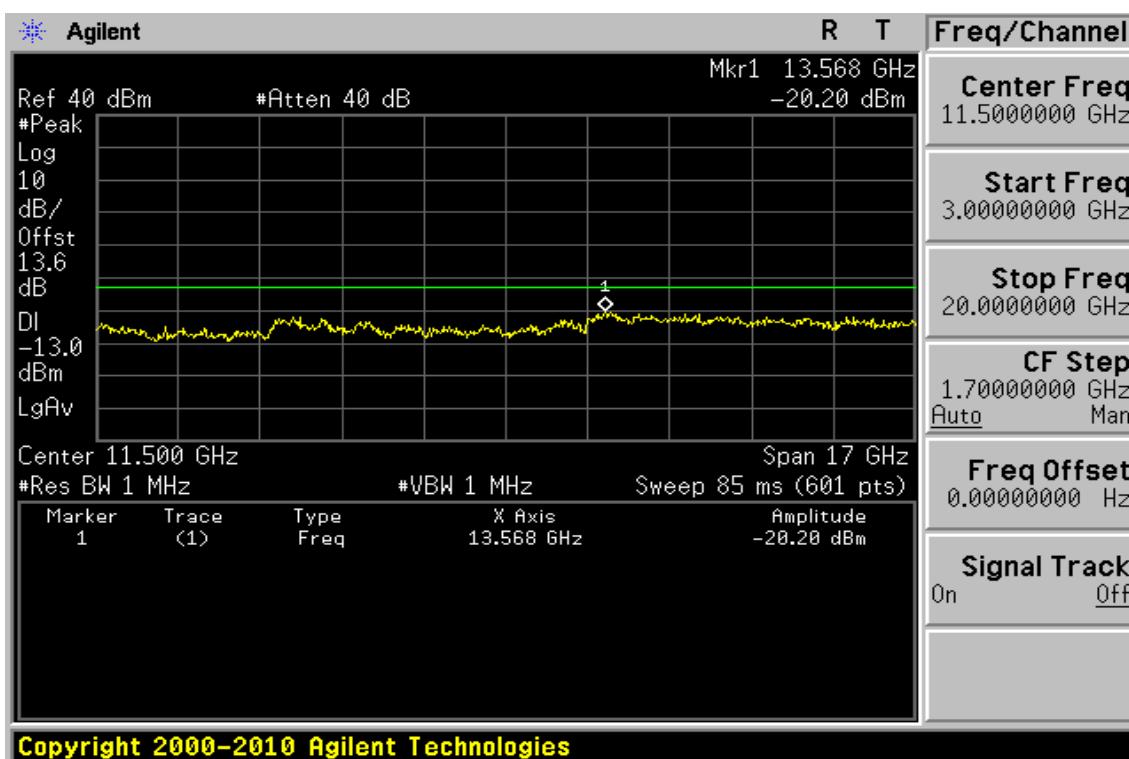
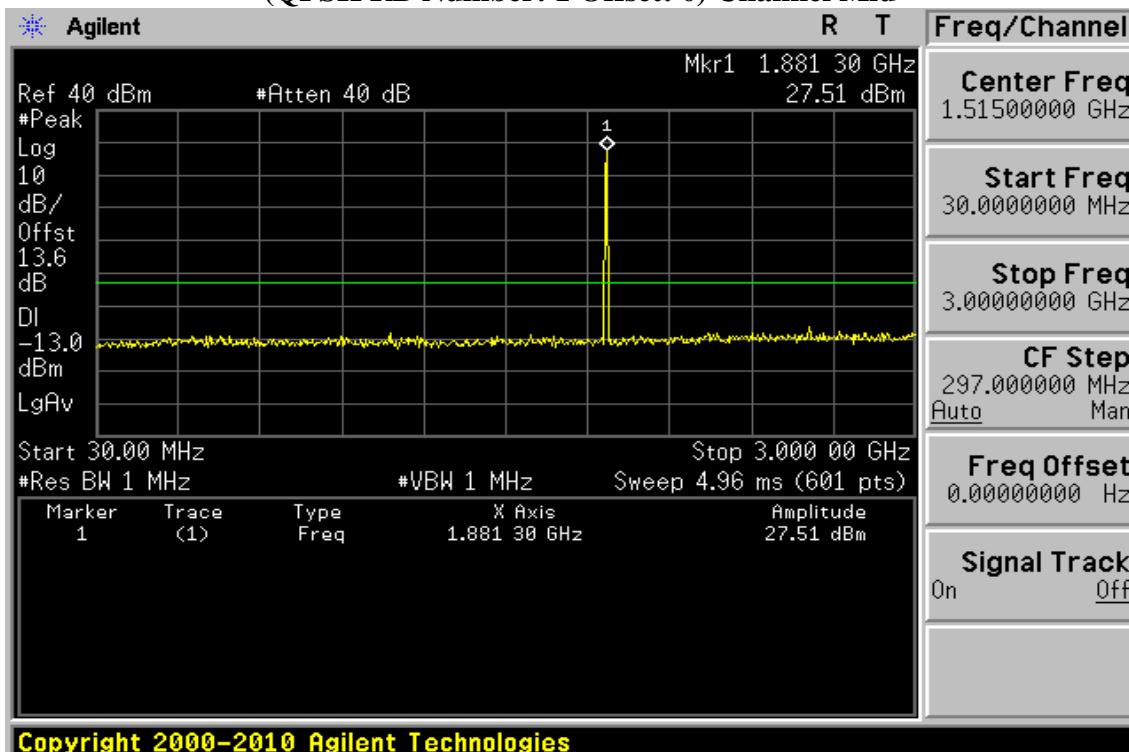


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Figure 10-52: Out of Band emission at antenna terminals –1.4MHz BW LTE-Band 2
(QPSK RB Number: 1 Offset: 0) Channel Mid

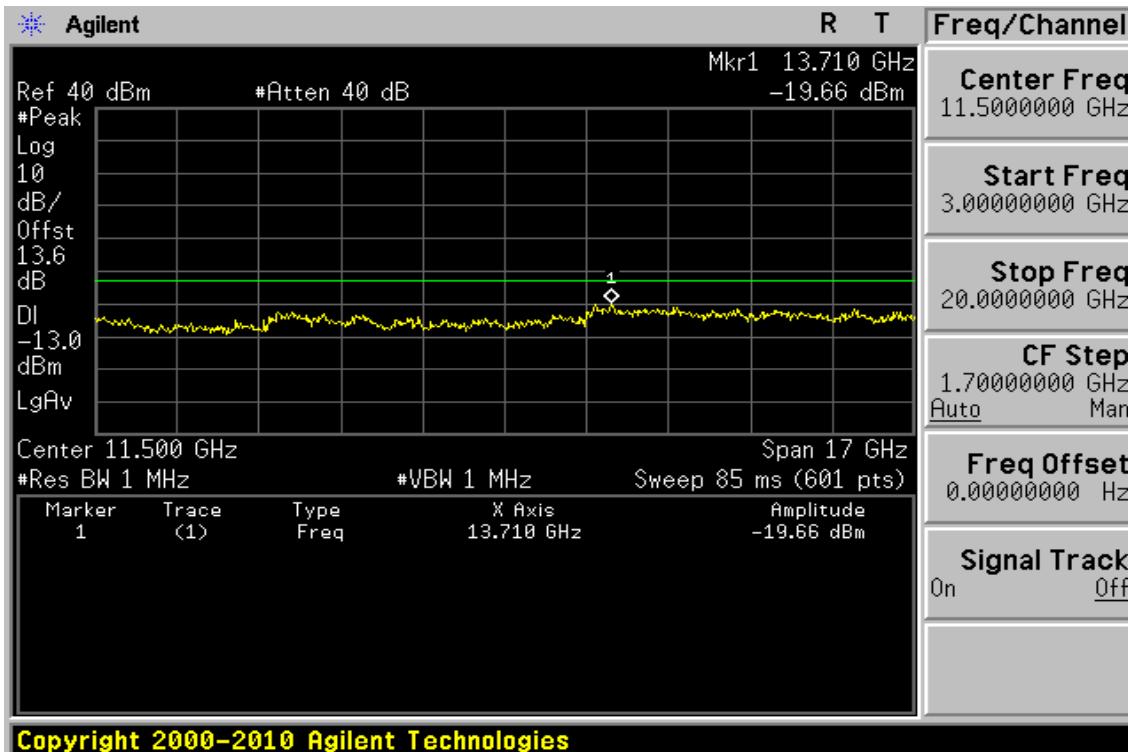
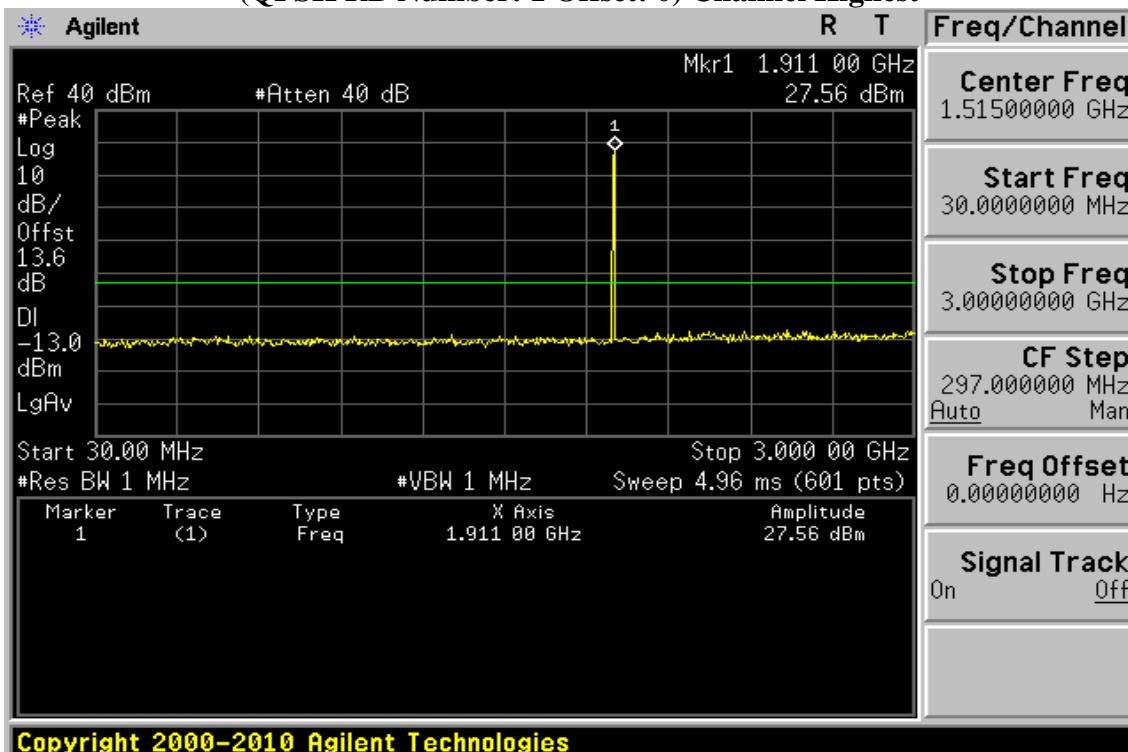


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Figure 10-53: Out of Band emission at antenna terminals—1.4MHz BW LTE-Band 2
(QPSK RB Number: 1 Offset: 0) Channel Highest

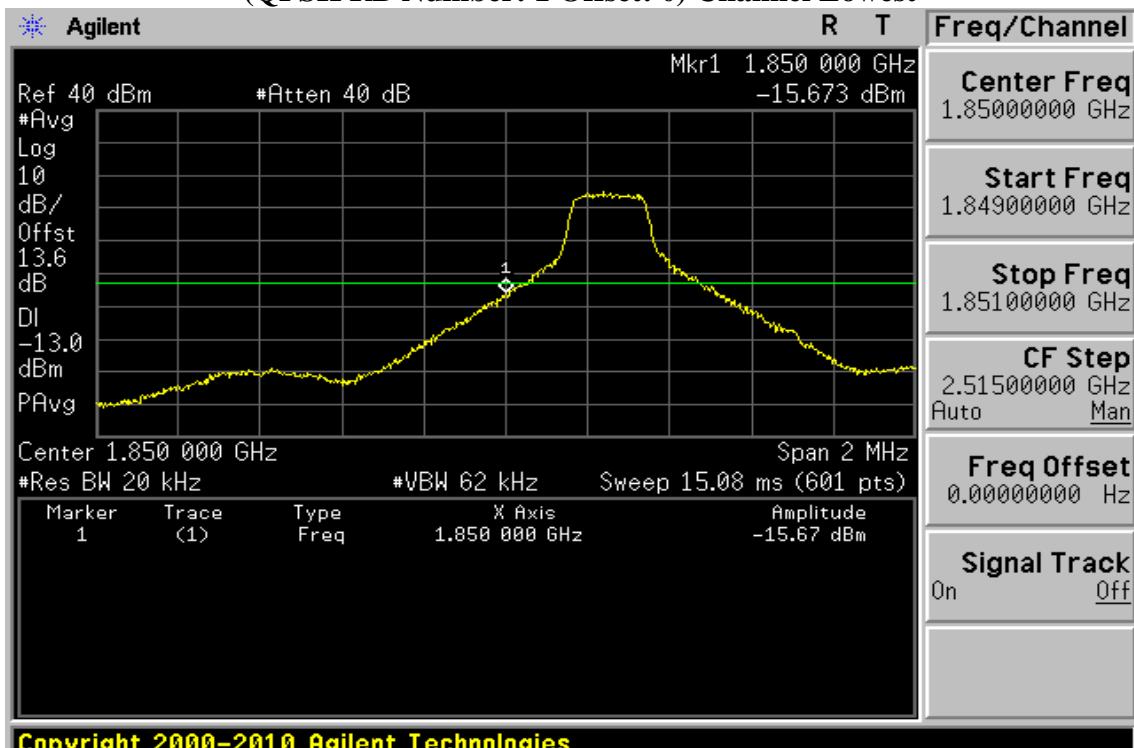


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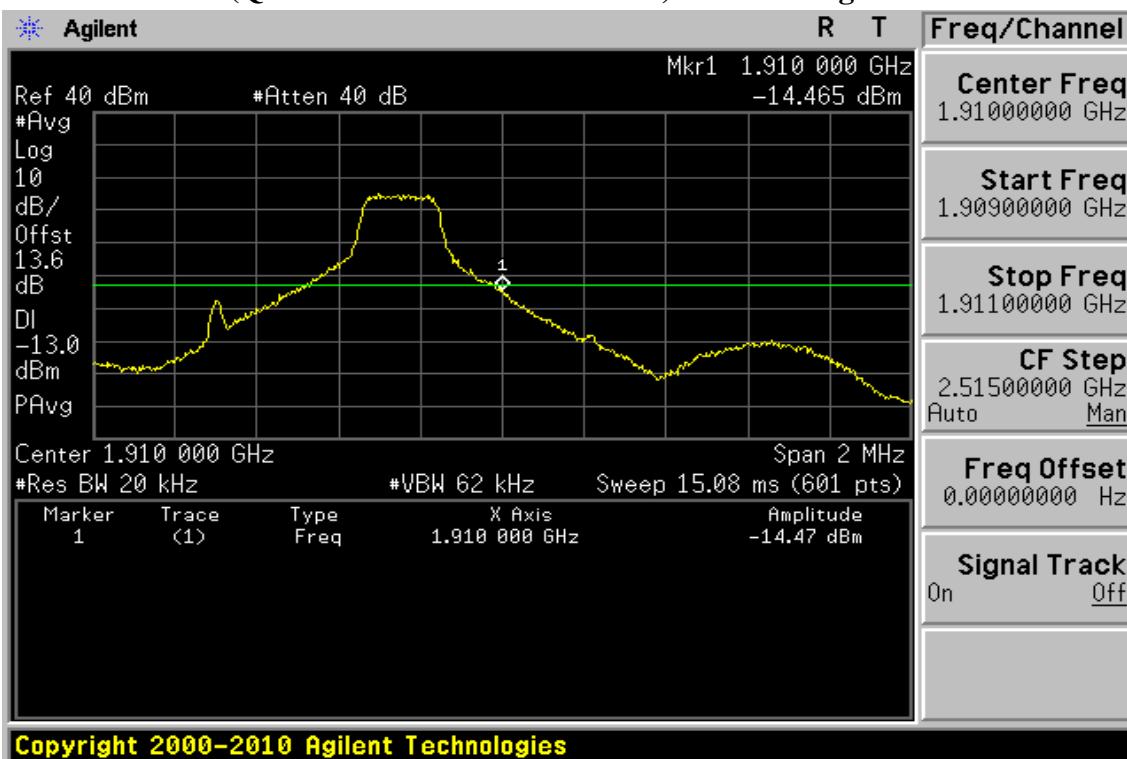
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**Figure 10-54: Band edge emission at antenna terminals –1.4MHz BW LTE-Band 2
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



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**Figure 10-55: Band edge emission at antenna terminals –1.4MHz BW LTE-Band 2
(QPSK RB Number: 1 Offset: 5) Channel Highest**



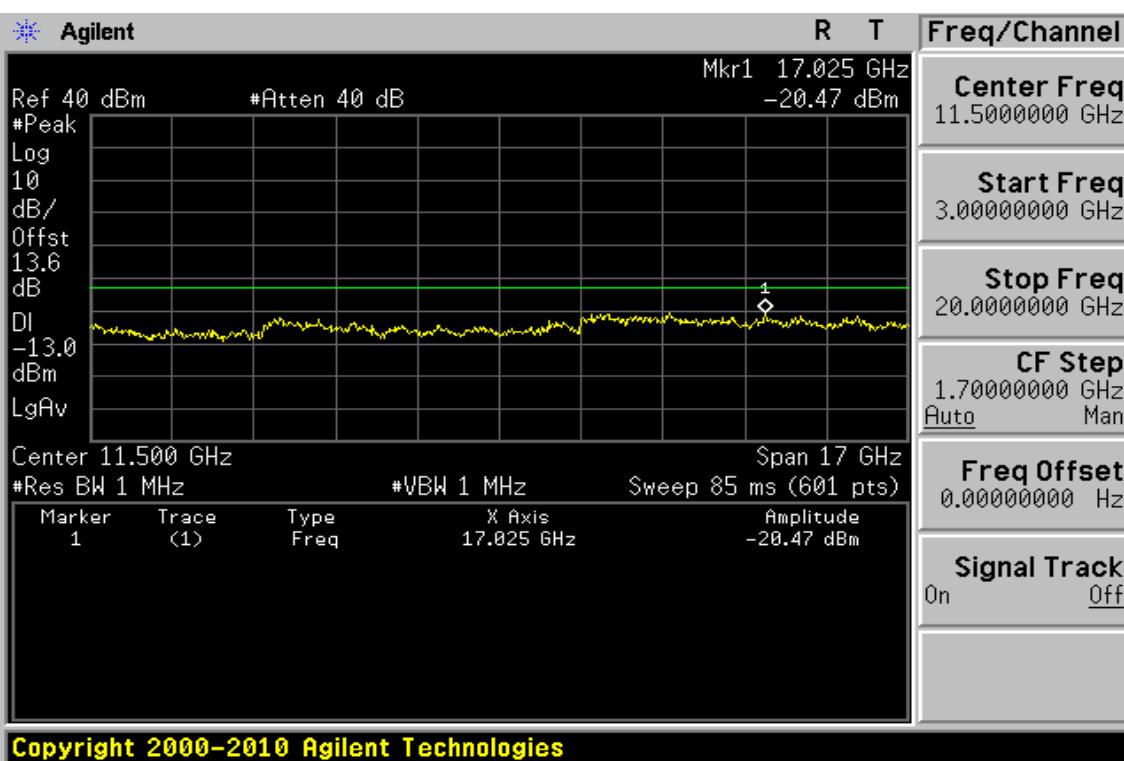
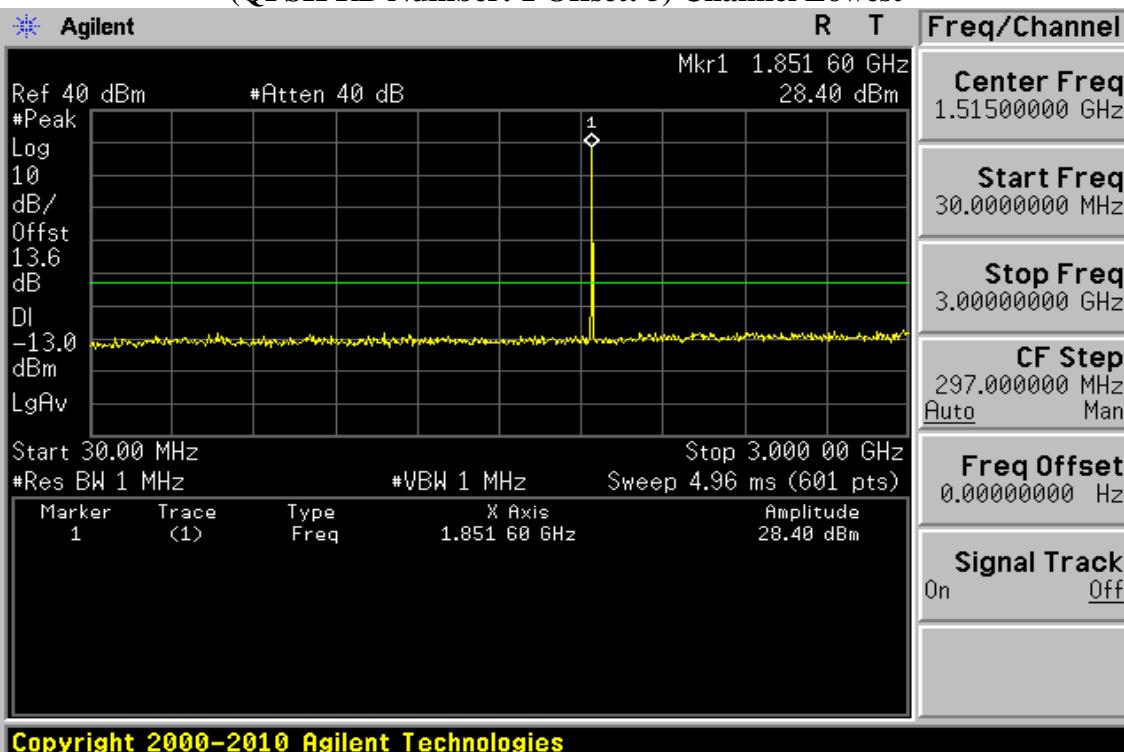
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**Figure 10-56: Out of Band emission at antenna terminals—1.4MHz BW LTE-Band 2
(QPSK RB Number: 1 Offset: 5) Channel Lowest**

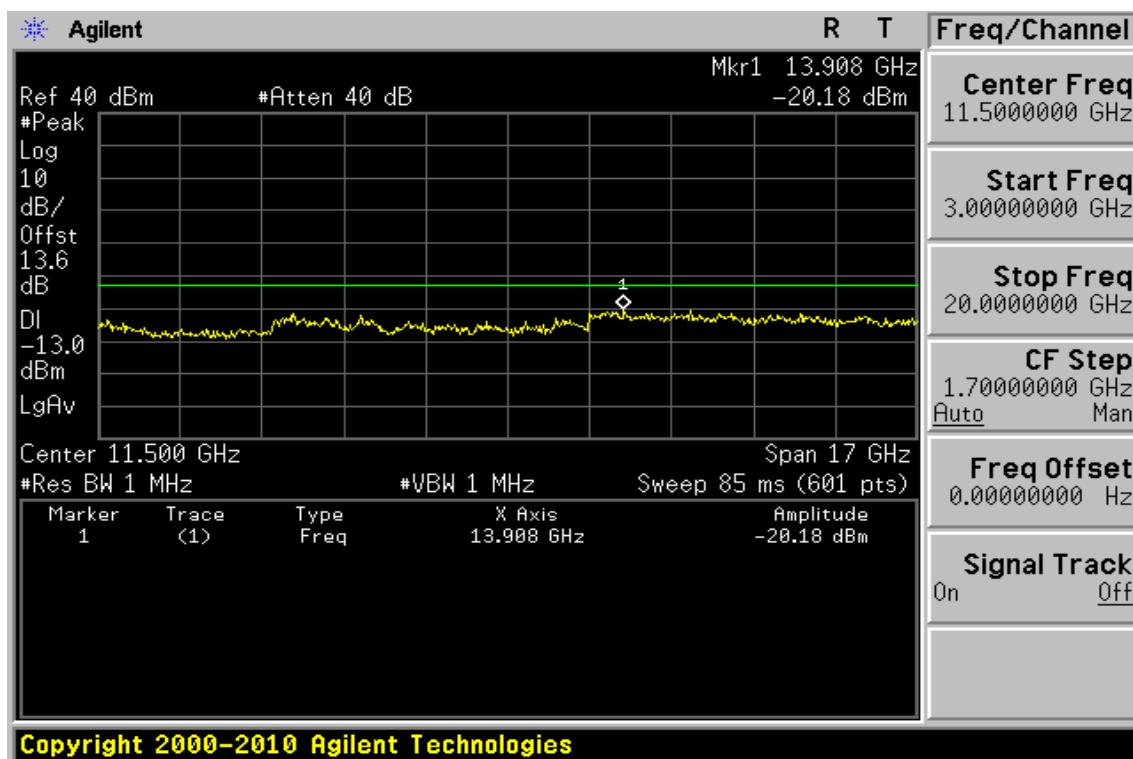
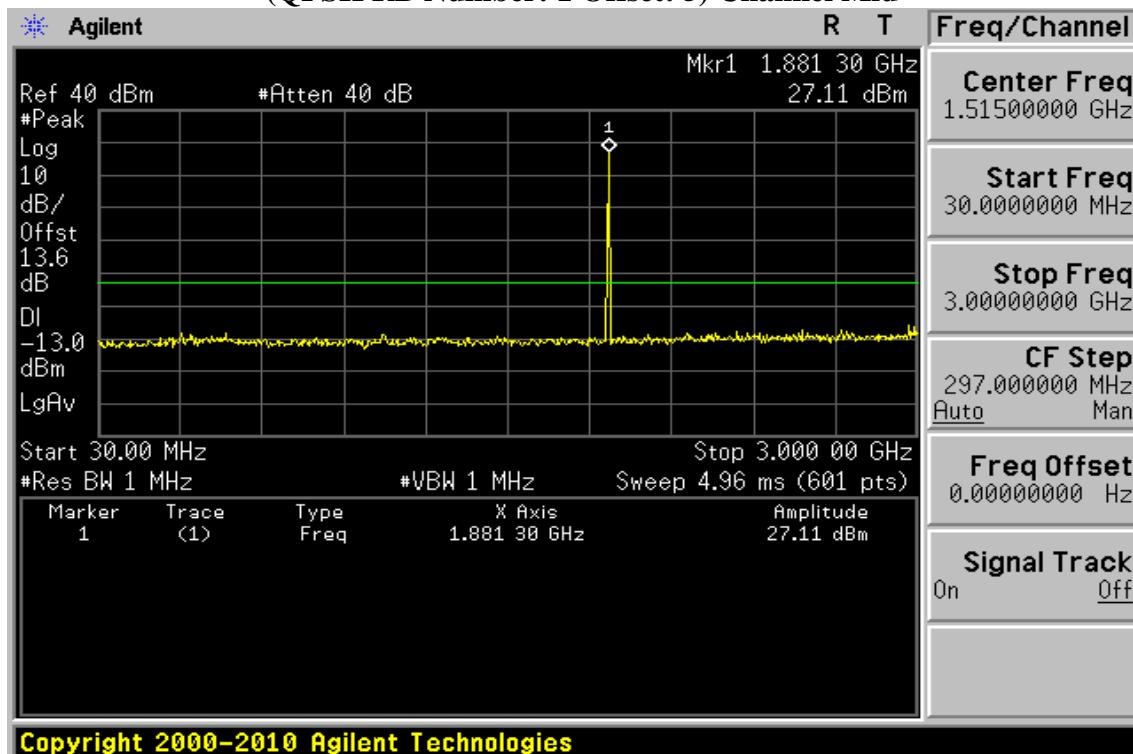


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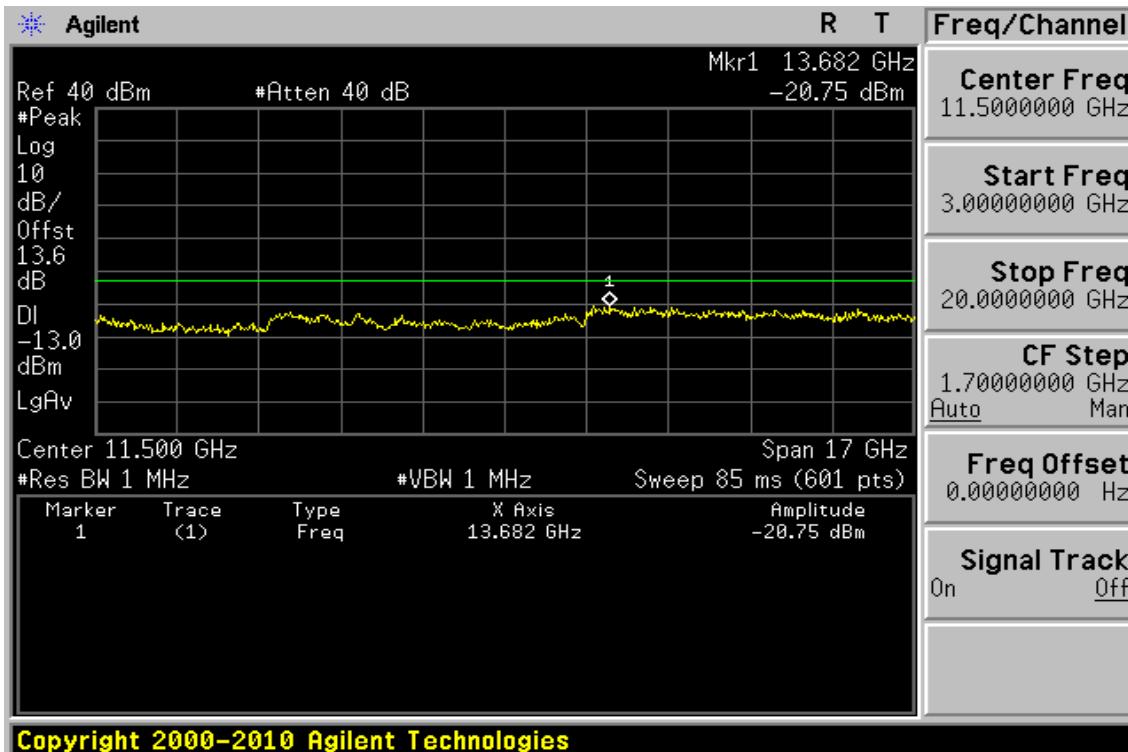
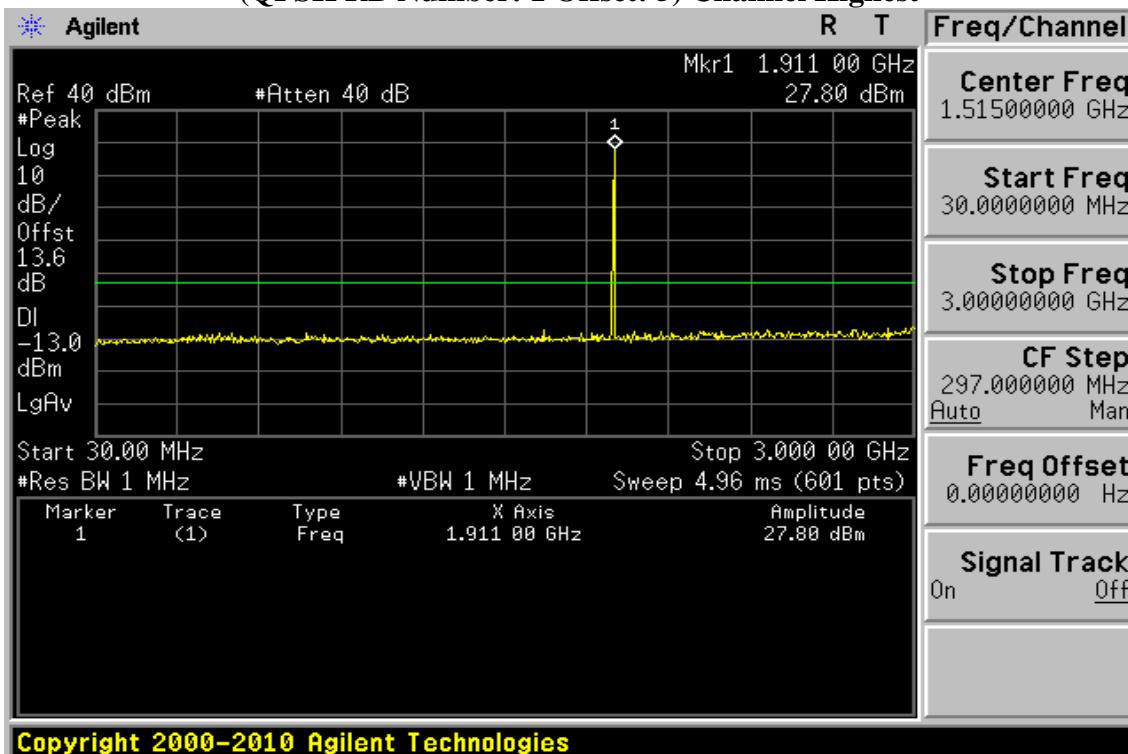
Figure 10-57: Out of Band emission at antenna terminals –1.4MHz BW LTE-Band 2
(QPSK RB Number: 1 Offset: 5) Channel Mid



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Figure 10-58: Out of Band emission at antenna terminals—1.4MHz BW LTE-Band 2
(QPSK RB Number: 1 Offset: 5) Channel Highest

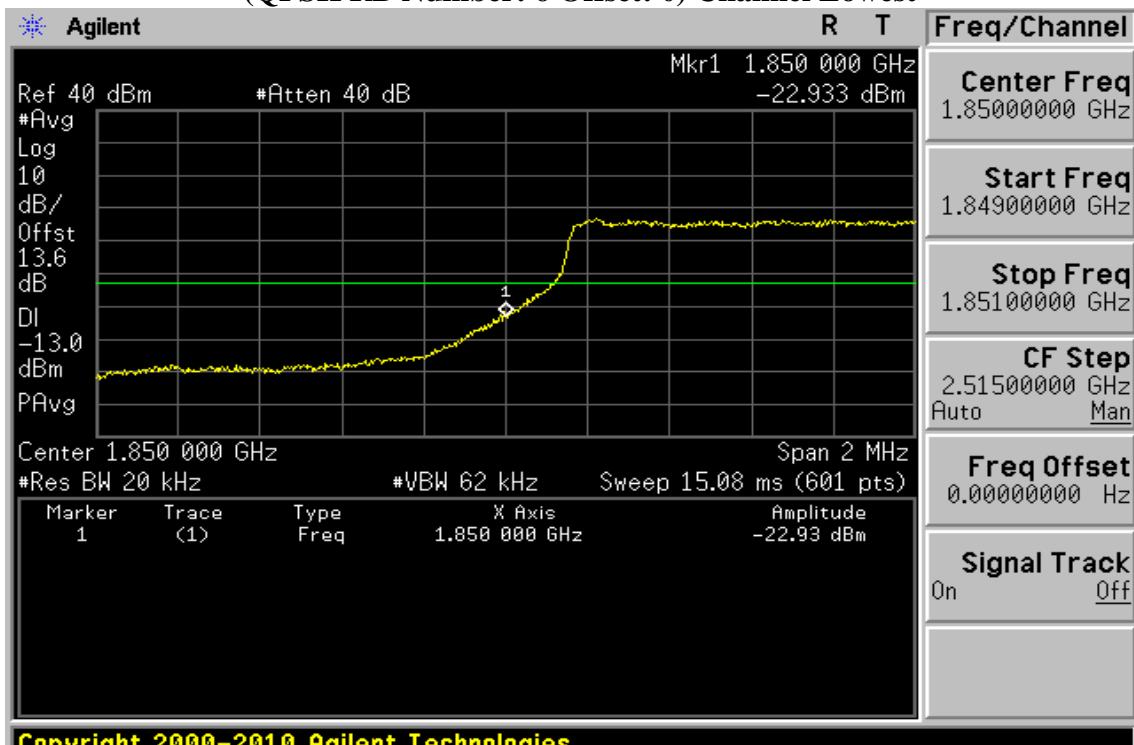


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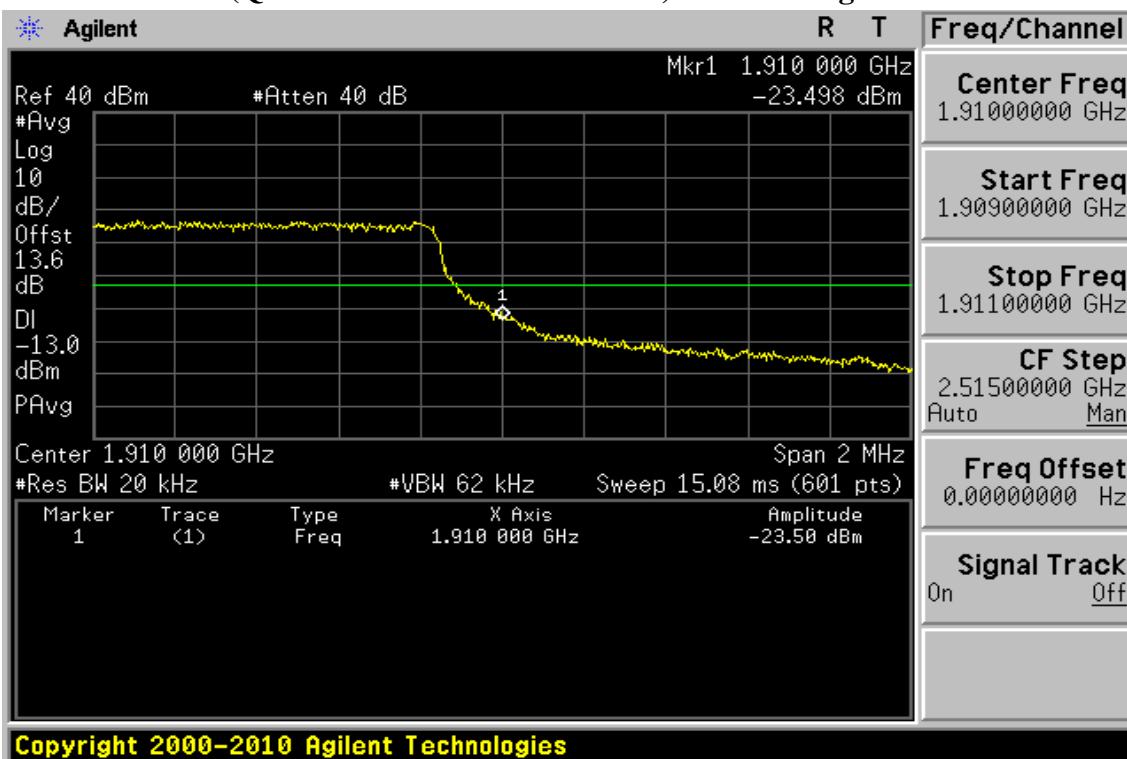
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**Figure 10-59: Band edge emission at antenna terminals –1.4MHz BW LTE-Band 2
(QPSK RB Number: 6 Offset: 0) Channel Lowest**



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**Figure 10-60: Band edge emission at antenna terminals –1.4MHz BW LTE-Band 2
(QPSK RB Number: 6 Offset: 0) Channel Highest**

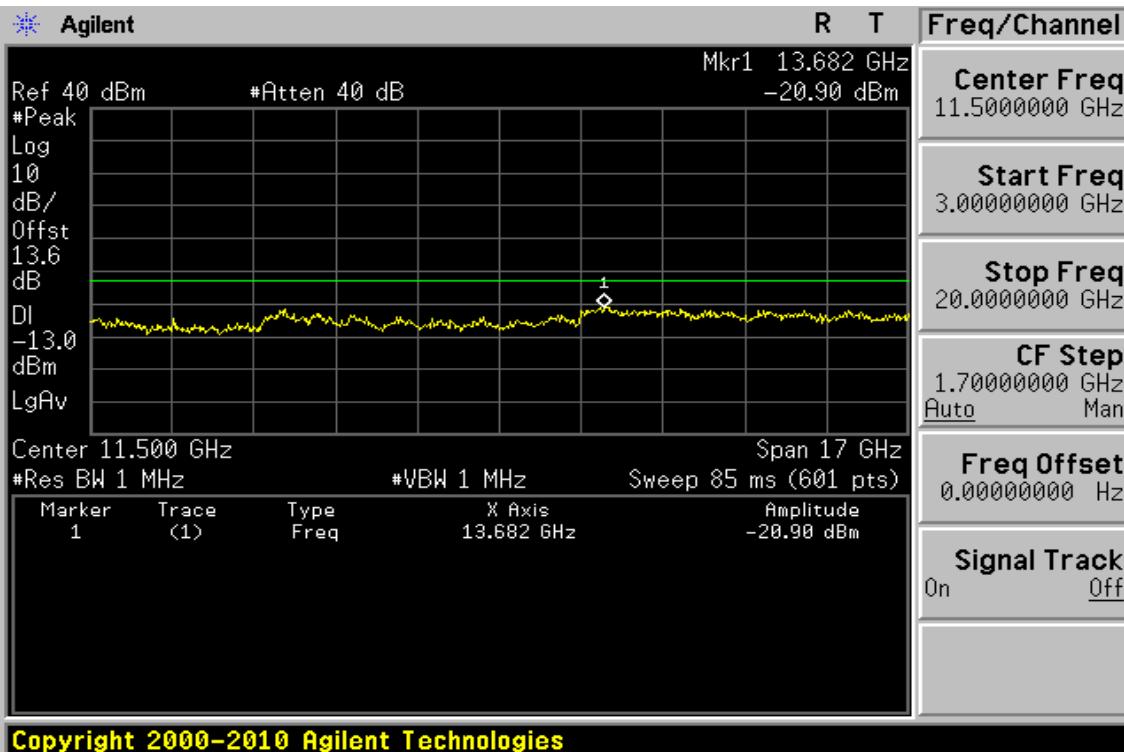
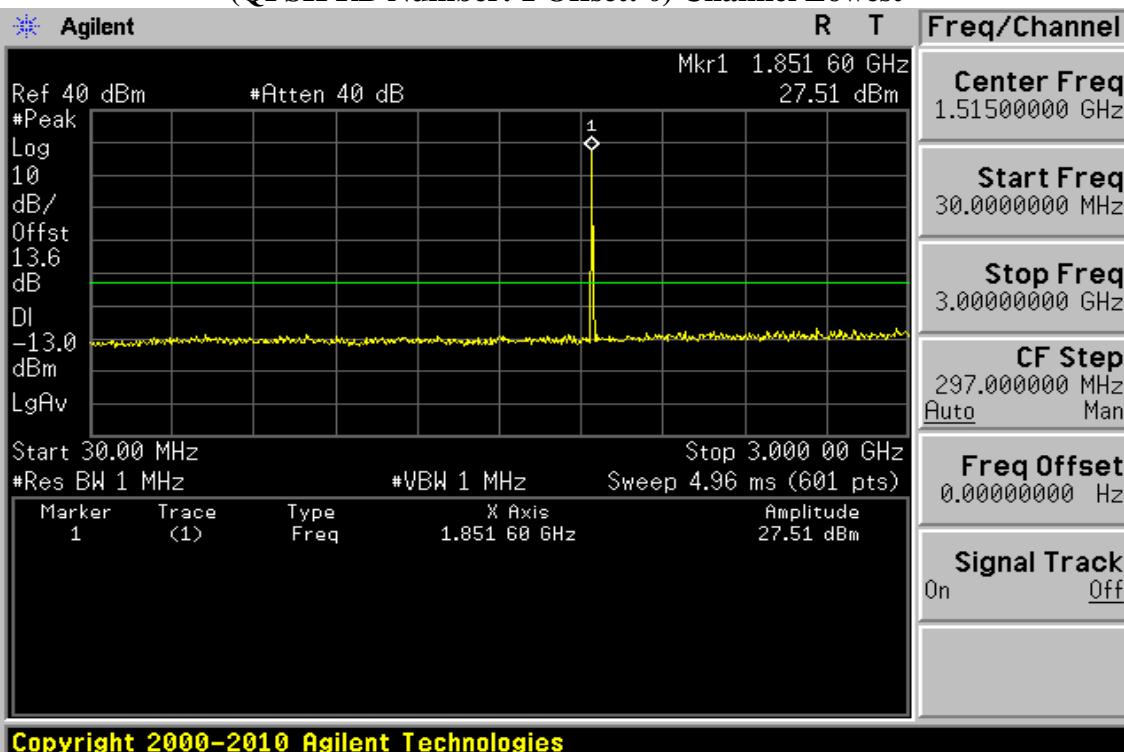


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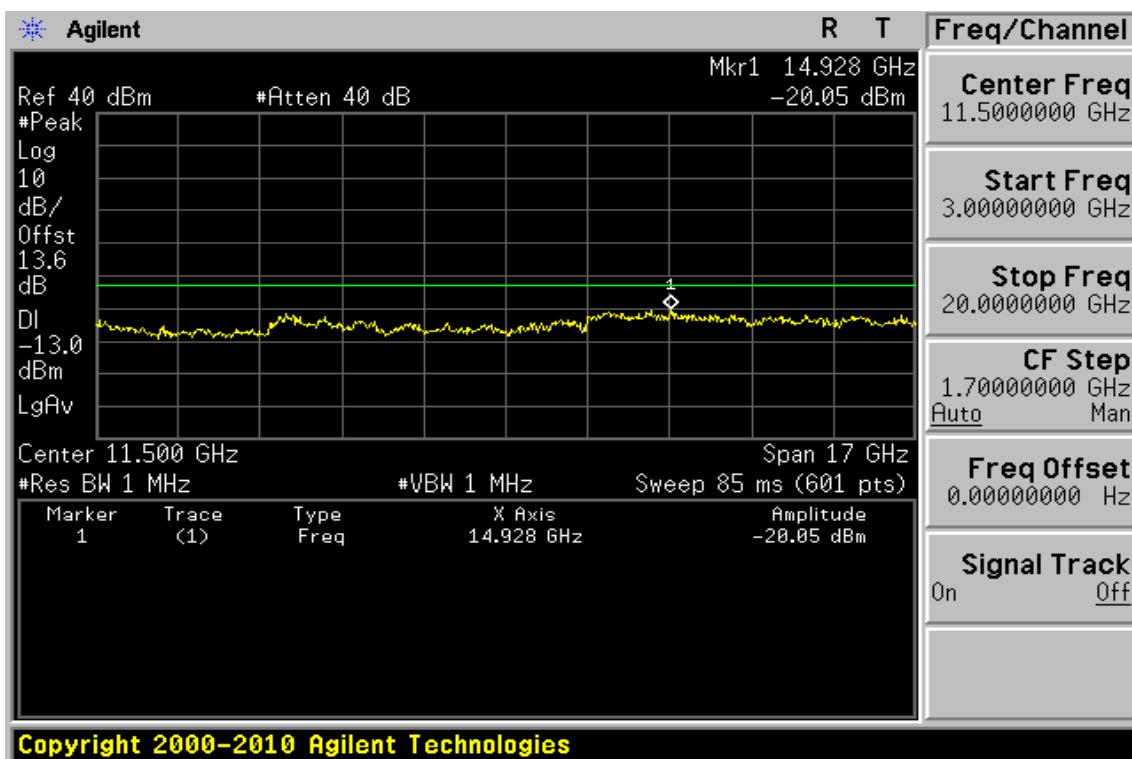
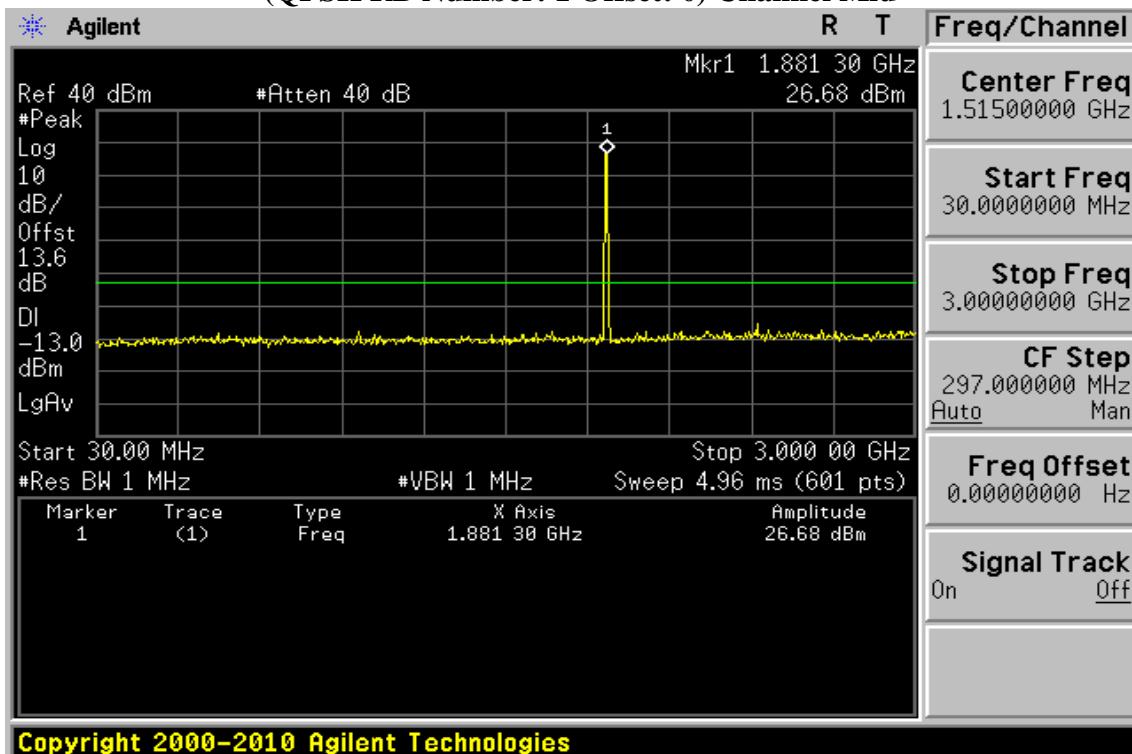
Figure 10-61: Out of Band emission at antenna terminals—3MHz BW LTE-Band 2
(QPSK RB Number: 1 Offset: 0) Channel Lowest

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**Figure 10-62: Out of Band emission at antenna terminals –3MHz BW LTE-Band 2
(QPSK RB Number: 1 Offset: 0) Channel Mid**

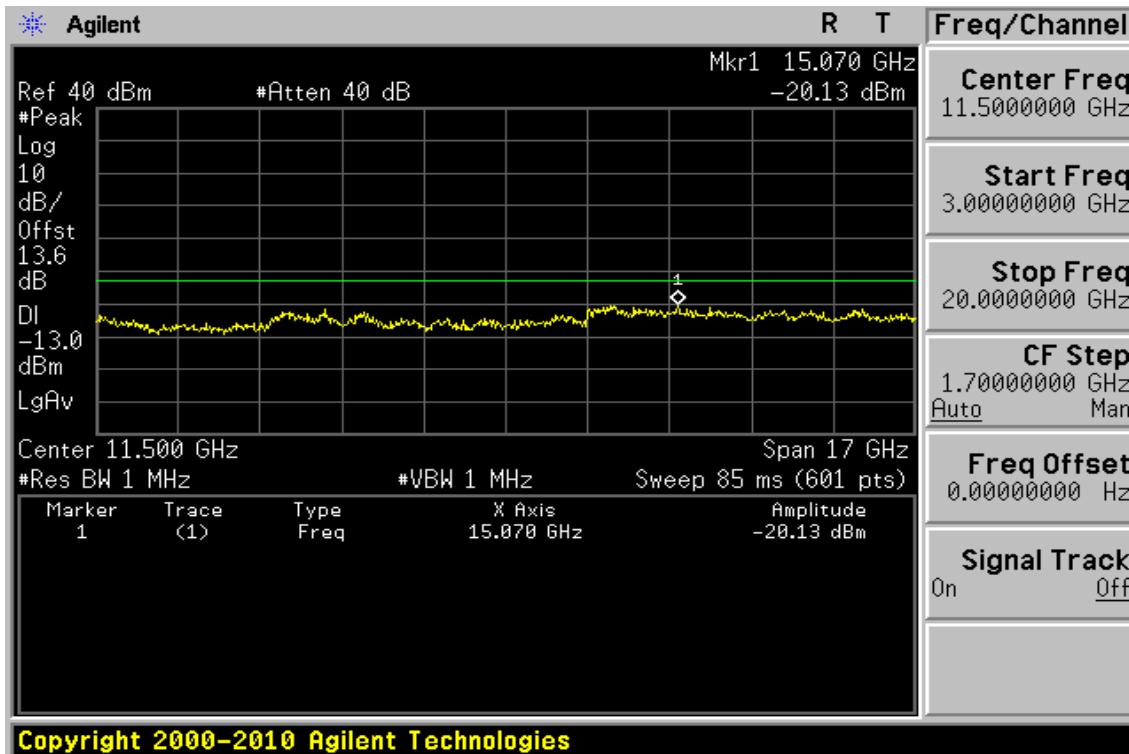
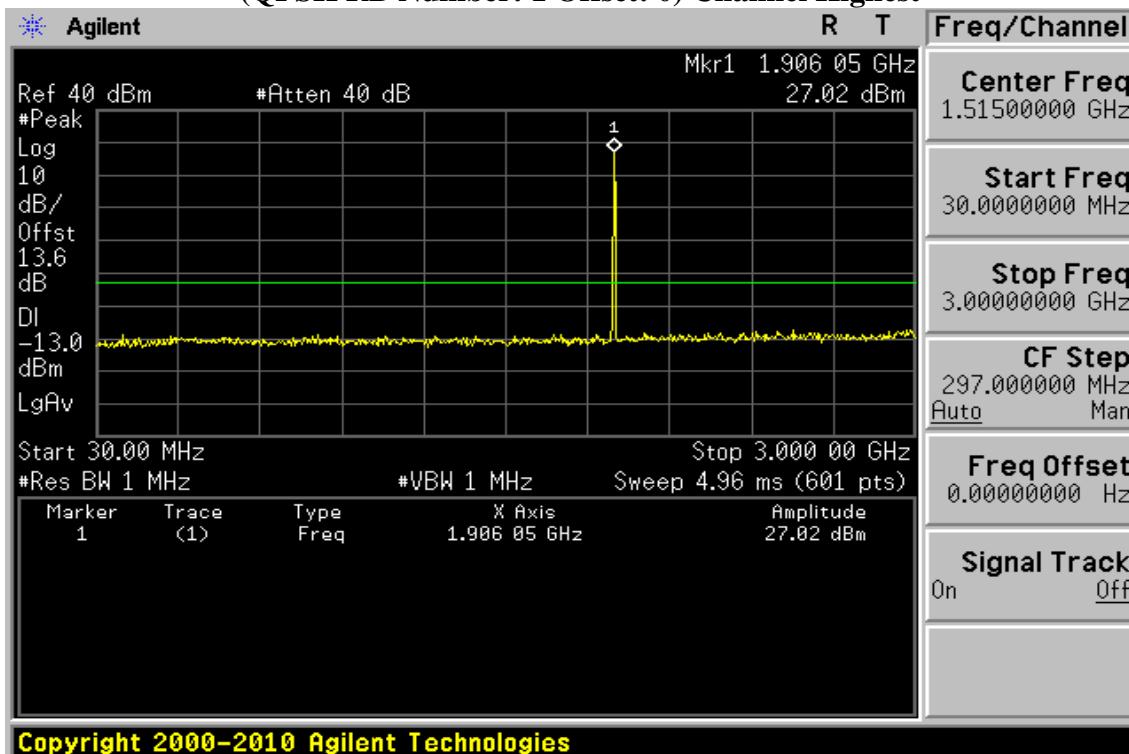


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**Figure 10-63: Out of Band emission at antenna terminals–3MHz BW LTE-Band 2
(QPSK RB Number: 1 Offset: 0) Channel Highest**

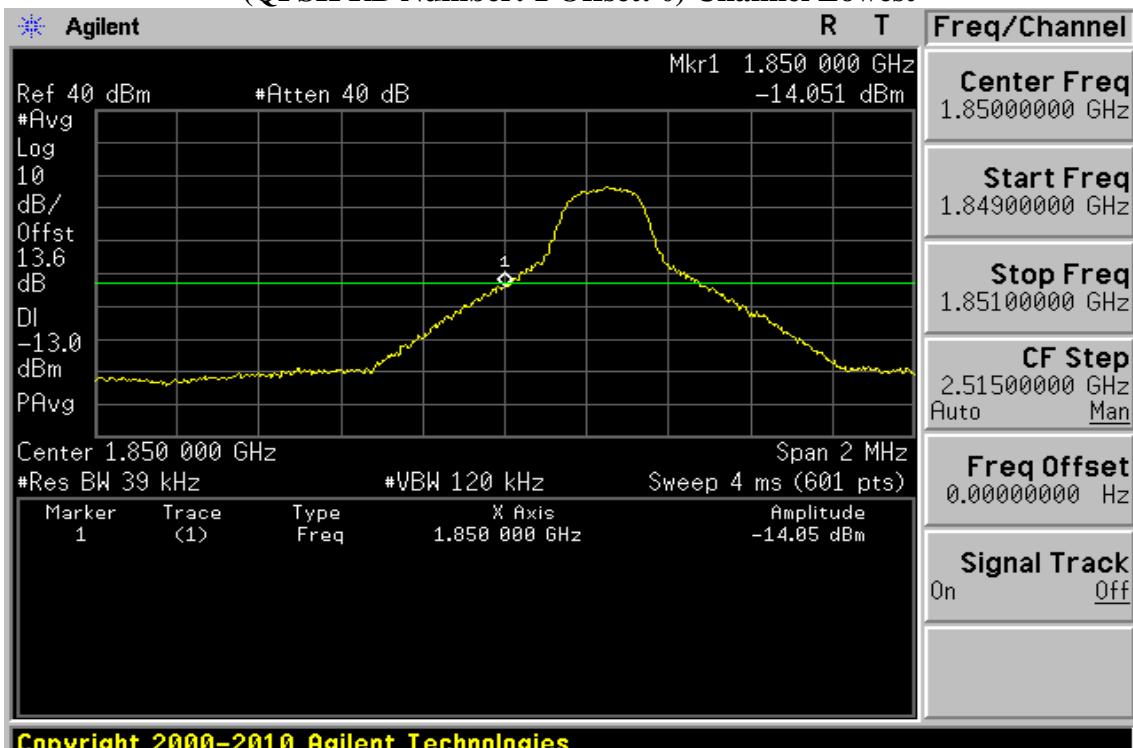


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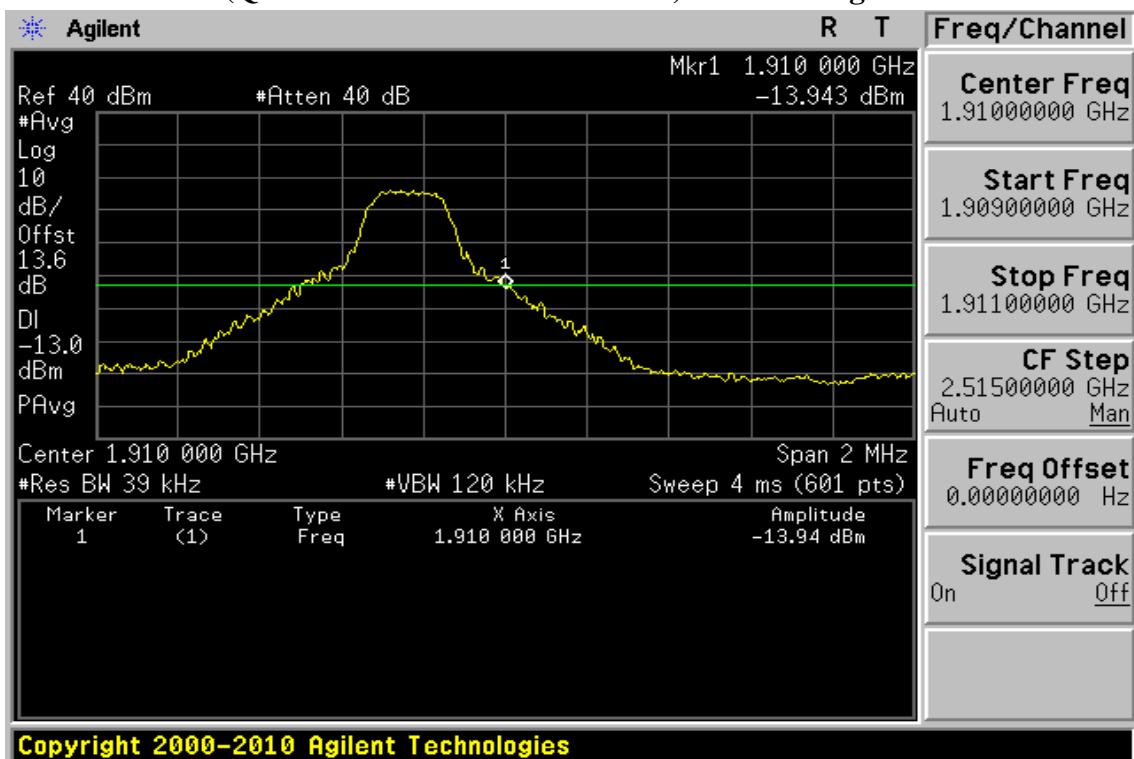
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**Figure 10-64: Band edge emission at antenna terminals –3MHz BW LTE-Band 2
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



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**Figure 10-65: Band edge emission at antenna terminals –3MHz BW LTE-Band 2
(QPSK RB Number: 1 Offset: 14) Channel Highest**



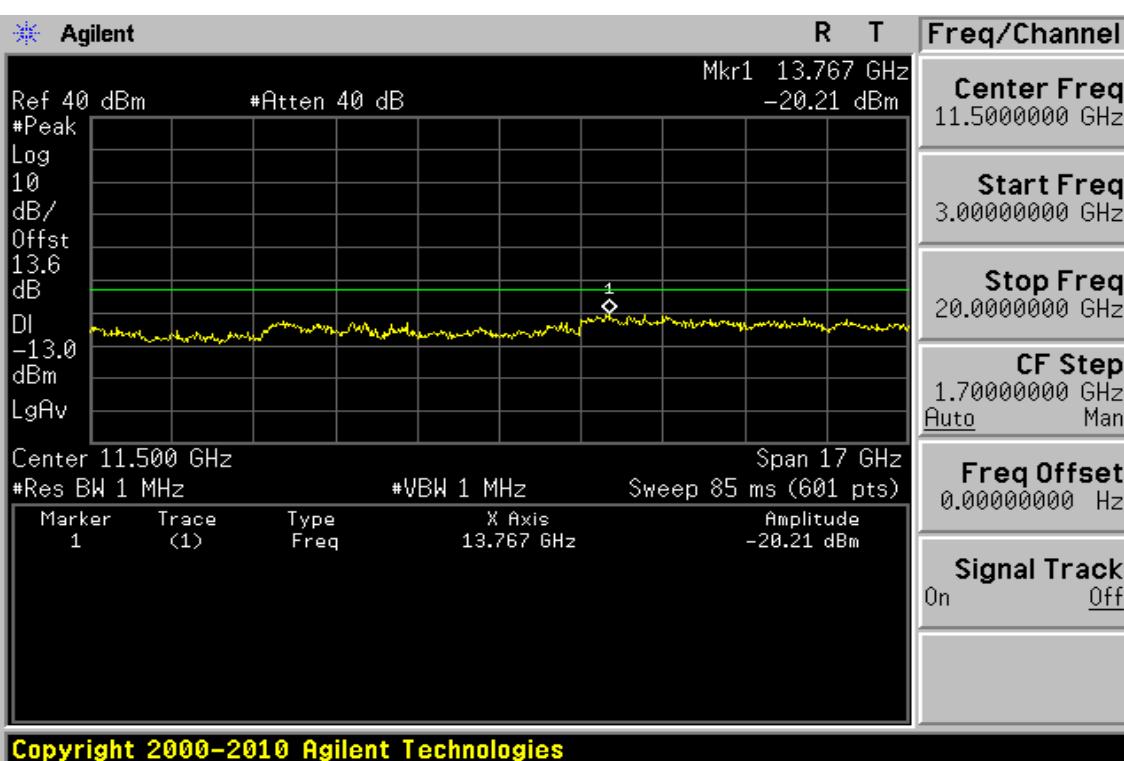
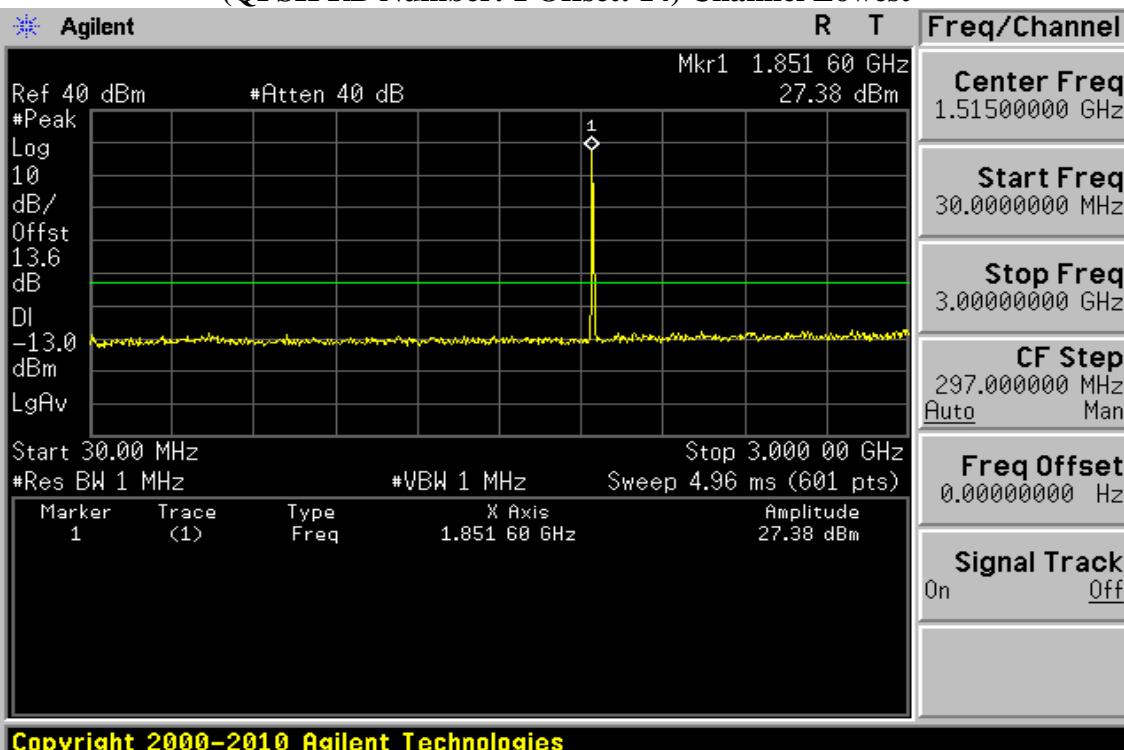
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**Figure 10-66: Out of Band emission at antenna terminals–3MHz BW LTE-Band 2
(QPSK RB Number: 1 Offset: 14) Channel Lowest**

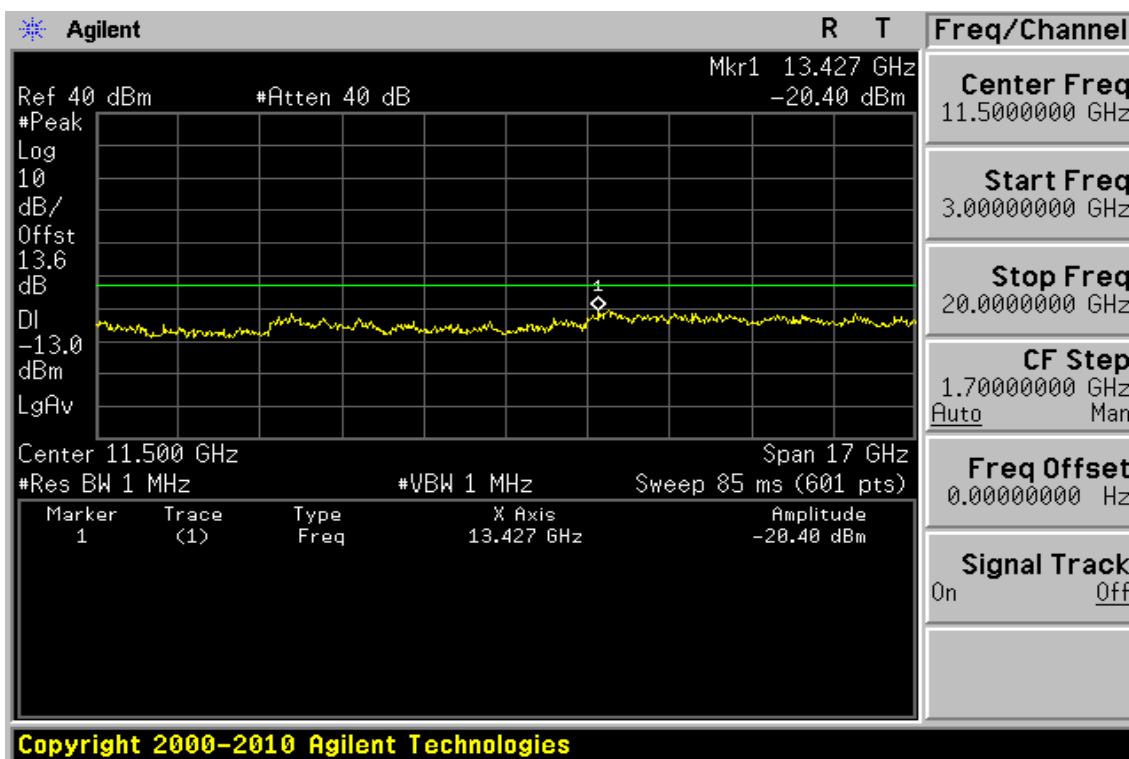
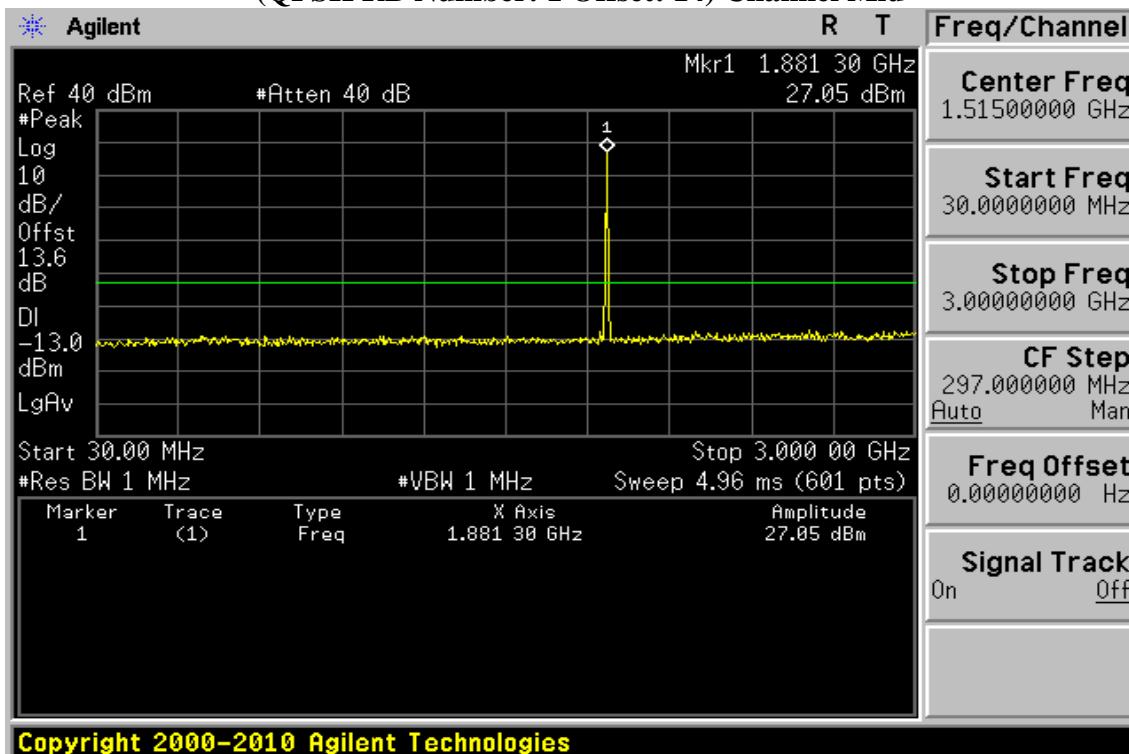


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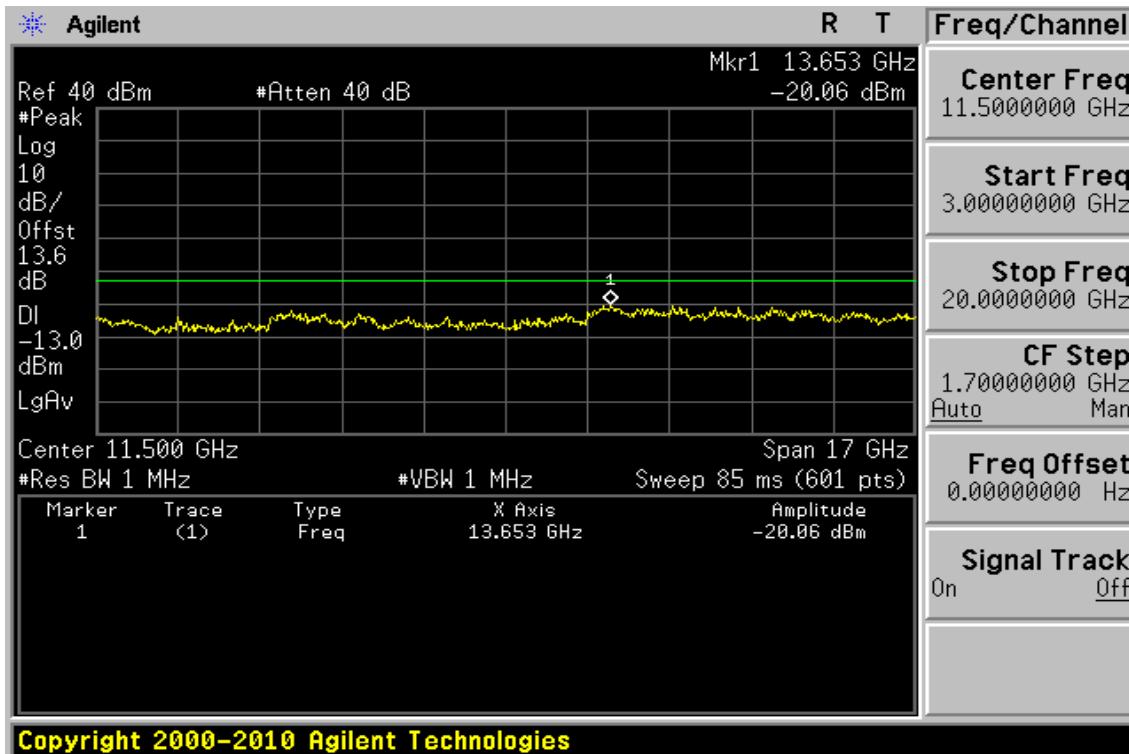
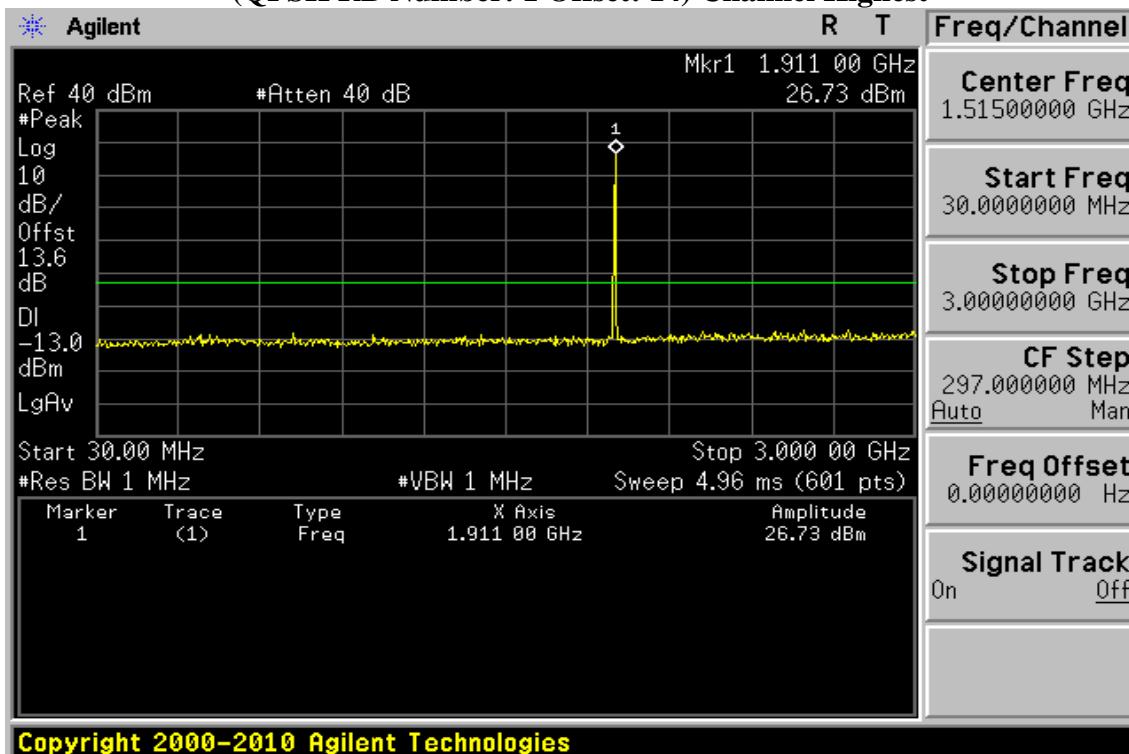
**Figure 10-67: Out of Band emission at antenna terminals –3MHz BW LTE-Band 2
(QPSK RB Number: 1 Offset: 14) Channel Mid**



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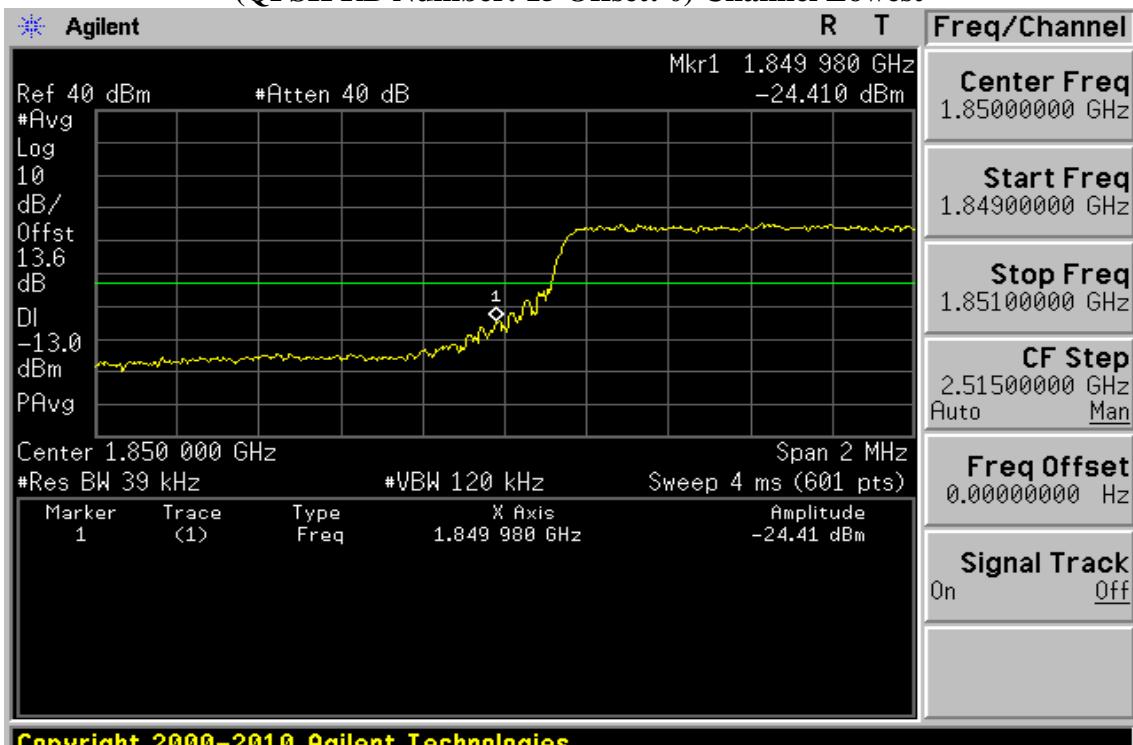
Figure 10-68: Out of Band emission at antenna terminals—3MHz BW LTE-Band 2
(QPSK RB Number: 1 Offset: 14) Channel Highest

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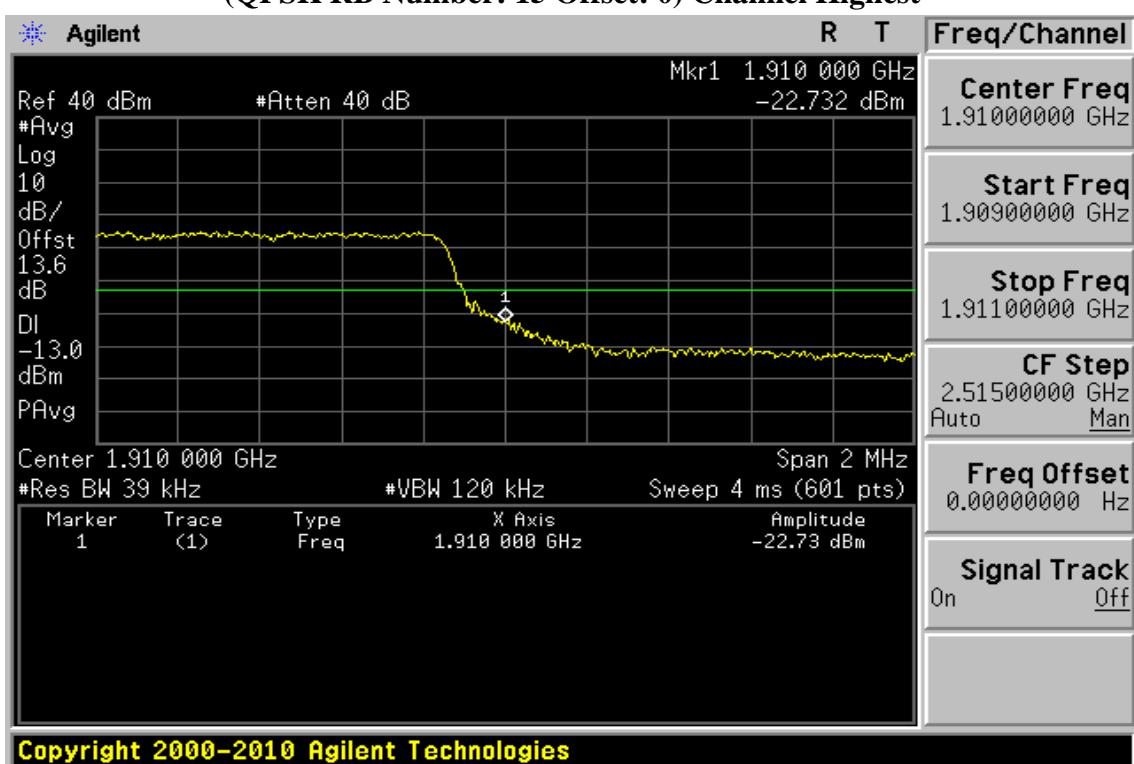
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**Figure 10-69: Band edge emission at antenna terminals –3MHz BW LTE-Band 2
(QPSK RB Number: 15 Offset: 0) Channel Lowest**



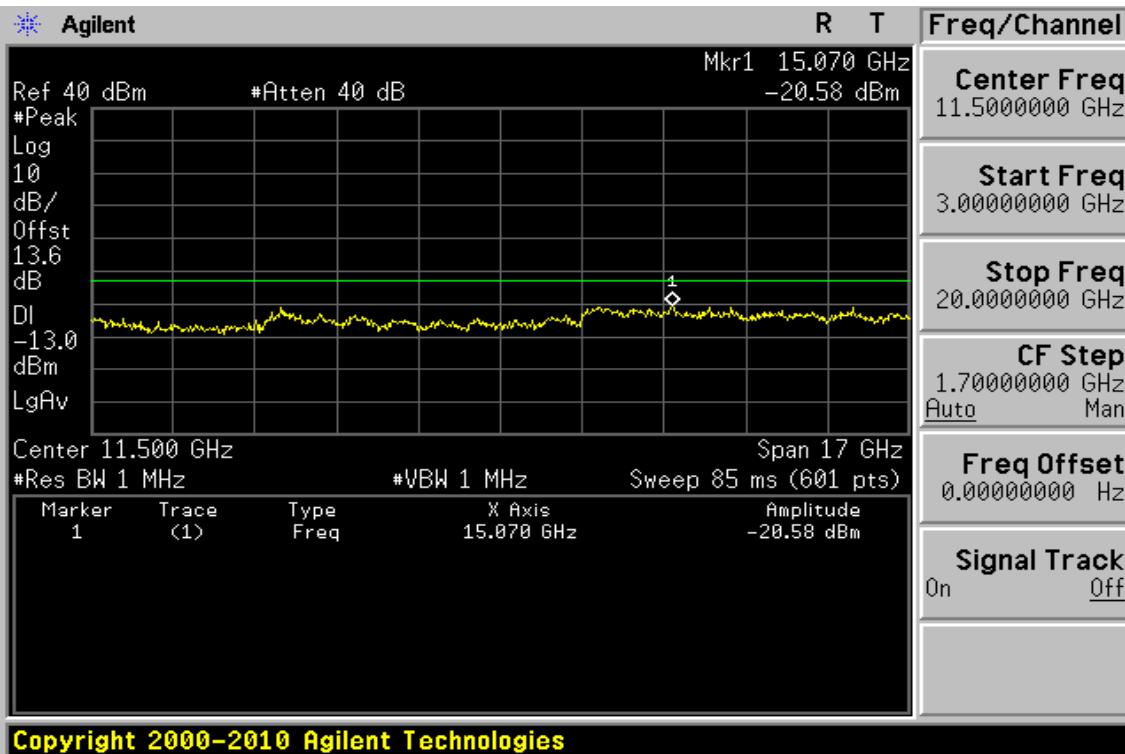
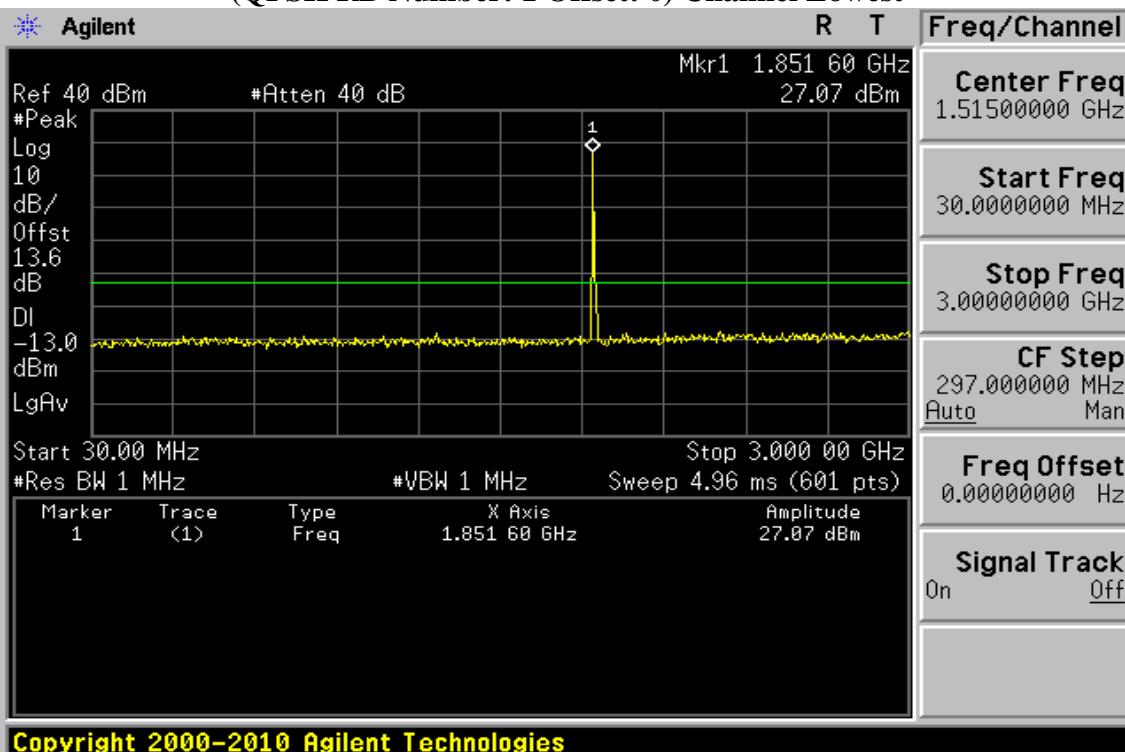
**Figure 10-70: Band edge emission at antenna terminals –3MHz BW LTE-Band 2
(QPSK RB Number: 15 Offset: 0) Channel Highest**



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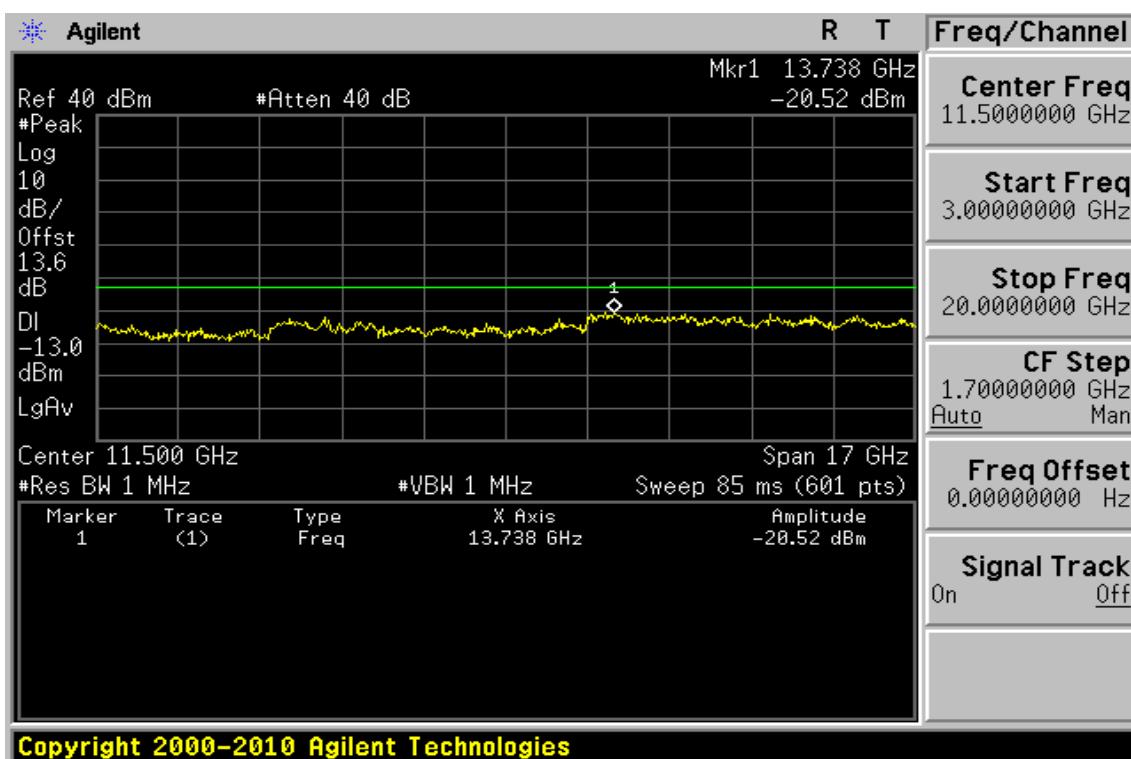
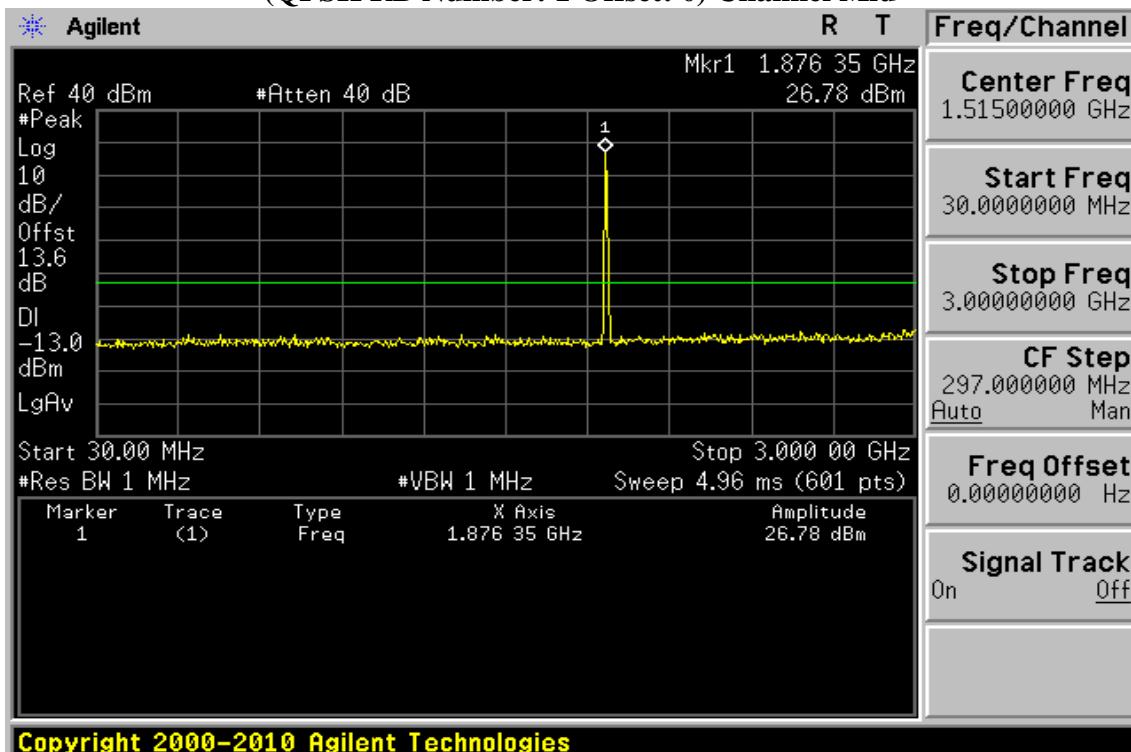
Figure 10-71: Out of Band emission at antenna terminals—5MHz BW LTE-Band 2
(QPSK RB Number: 1 Offset: 0) Channel Lowest

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**Figure 10-72: Out of Band emission at antenna terminals –5MHz BW LTE-Band 2
(QPSK RB Number: 1 Offset: 0) Channel Mid**

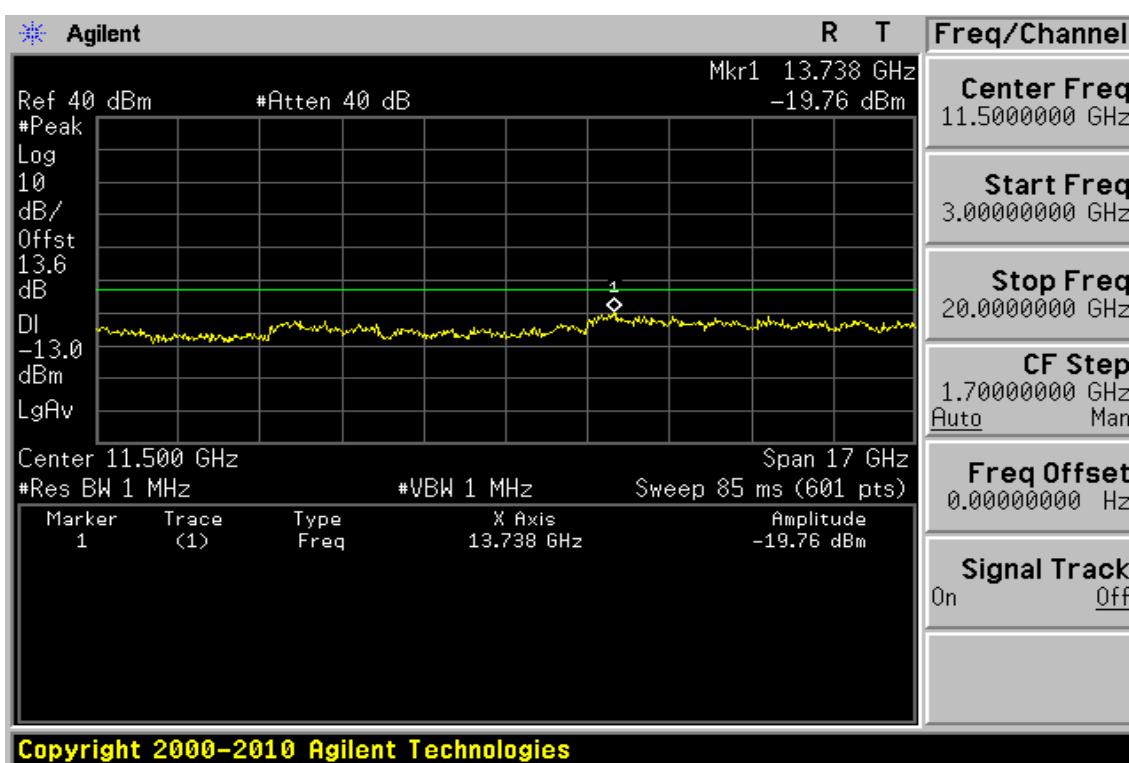
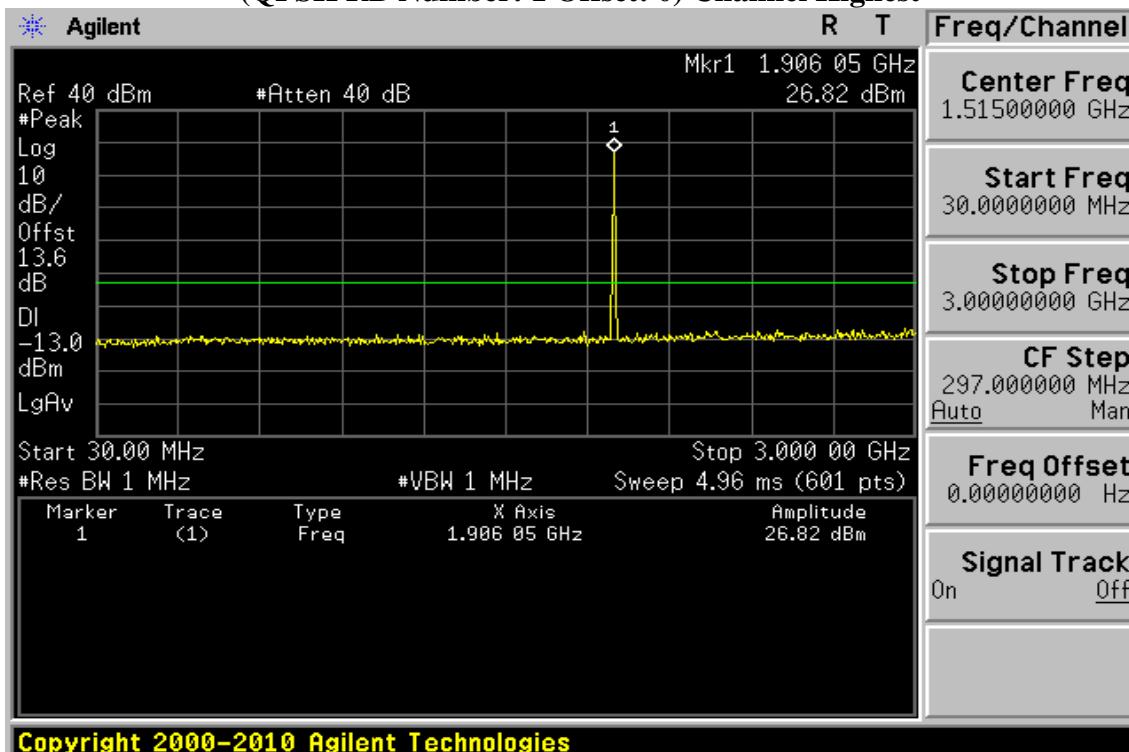


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**Figure 10-73: Out of Band emission at antenna terminals—5MHz BW LTE-Band 2
(QPSK RB Number: 1 Offset: 0) Channel Highest**

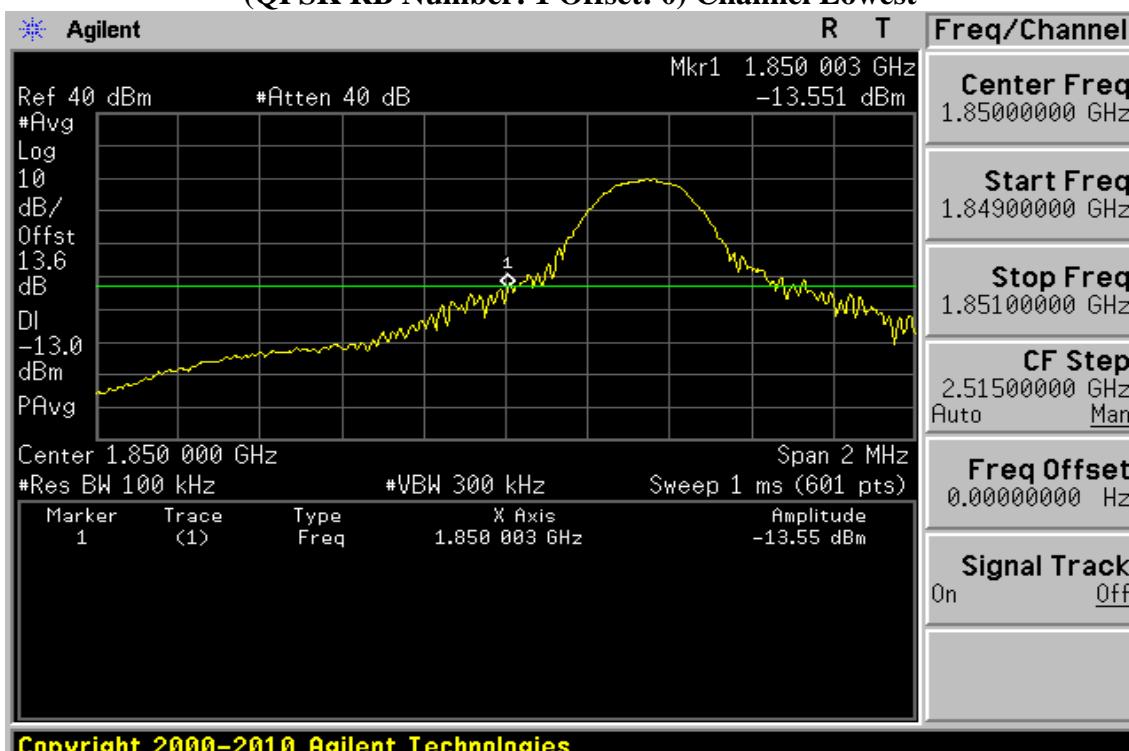


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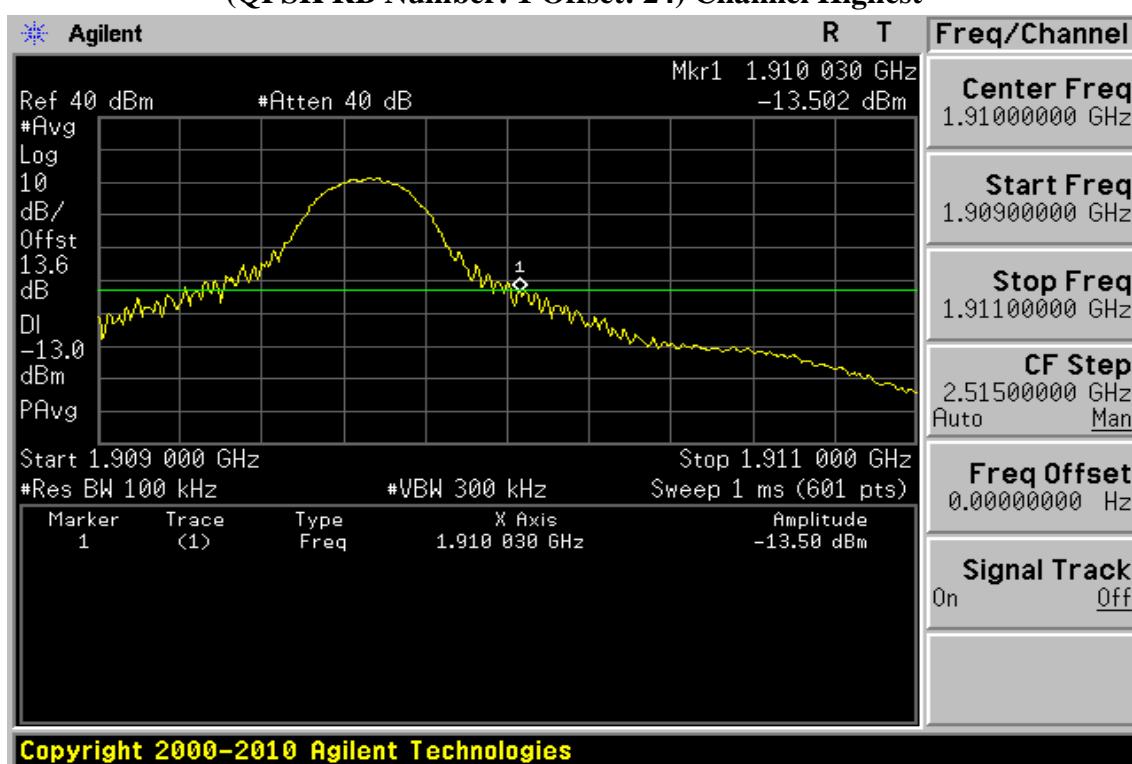
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**Figure 10-74: Band edge emission at antenna terminals –5MHz BW LTE-Band 2
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



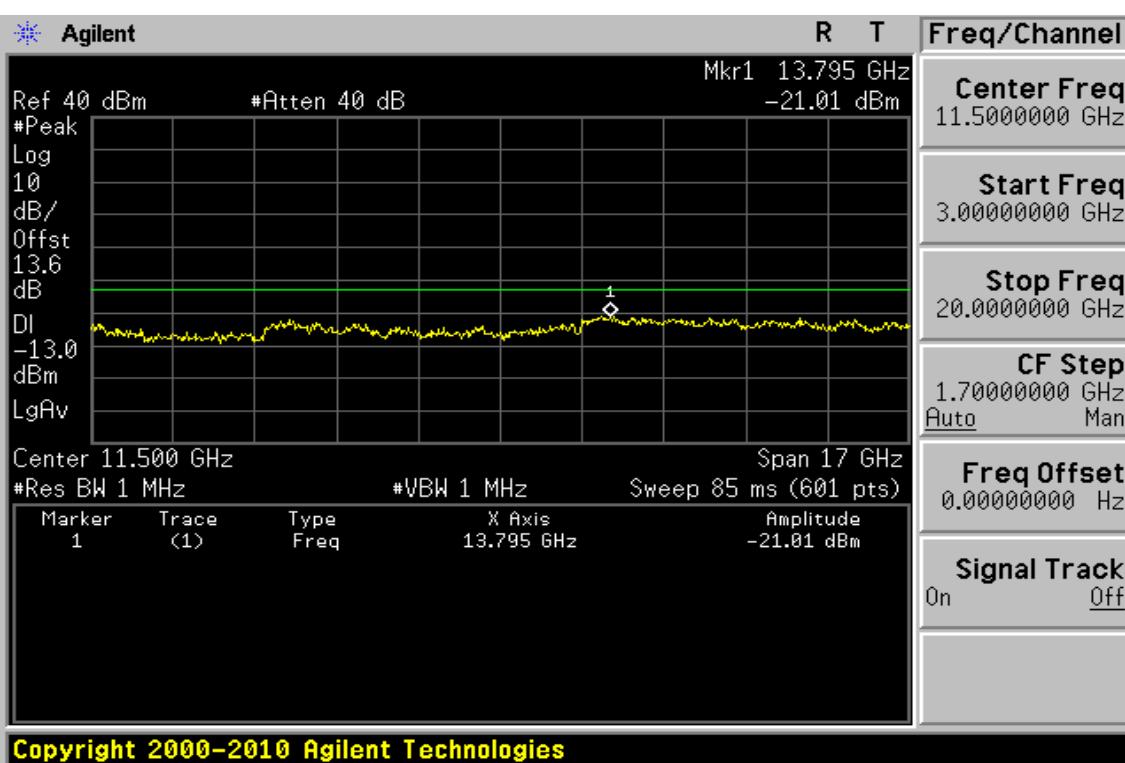
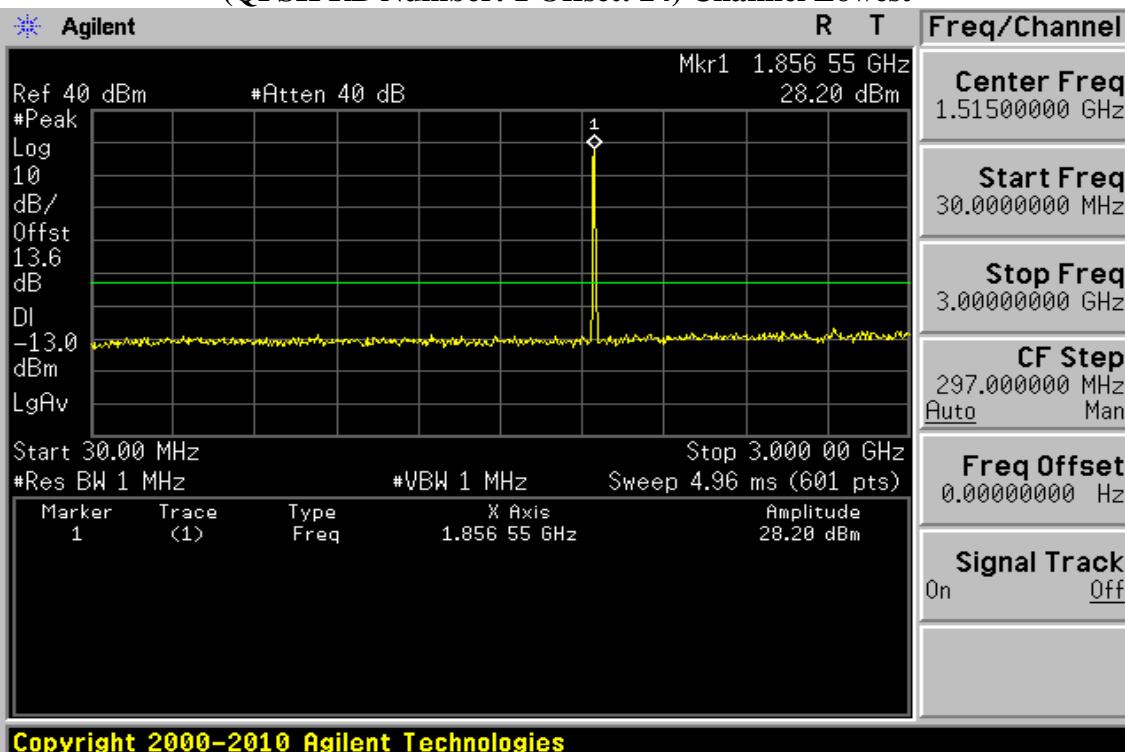
**Figure 10-75: Band edge emission at antenna terminals –5MHz BW LTE-Band 2
(QPSK RB Number: 1 Offset: 24) Channel Highest**



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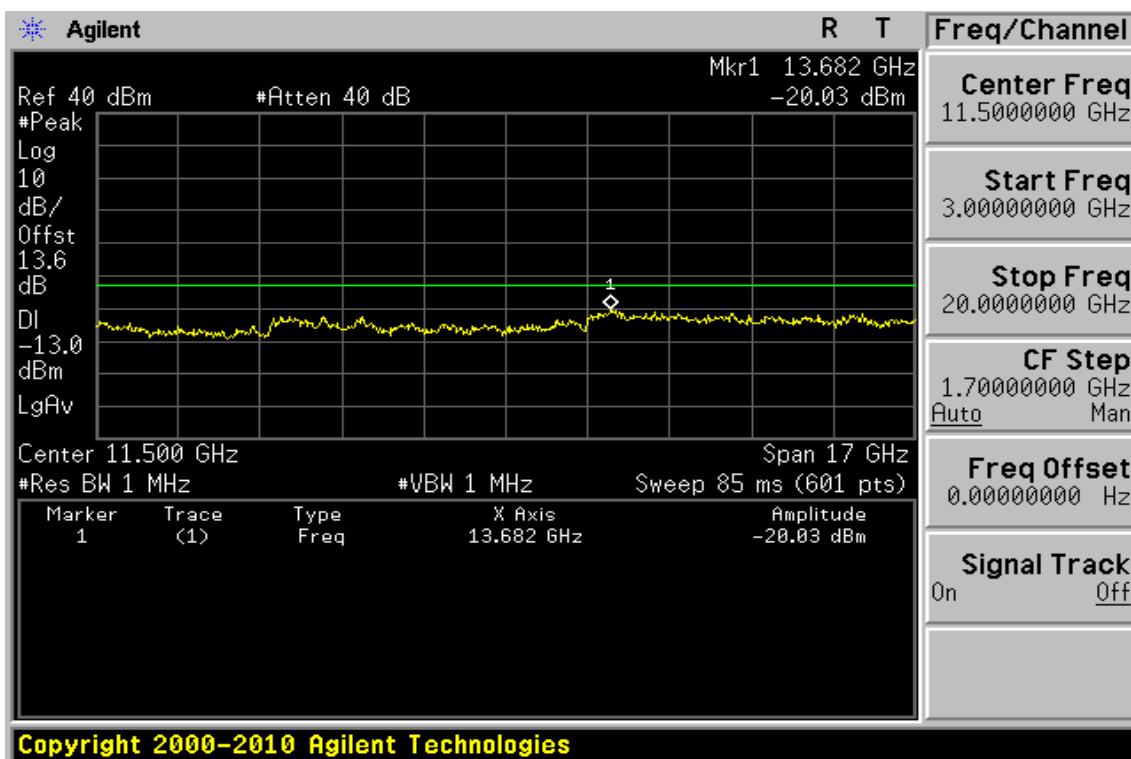
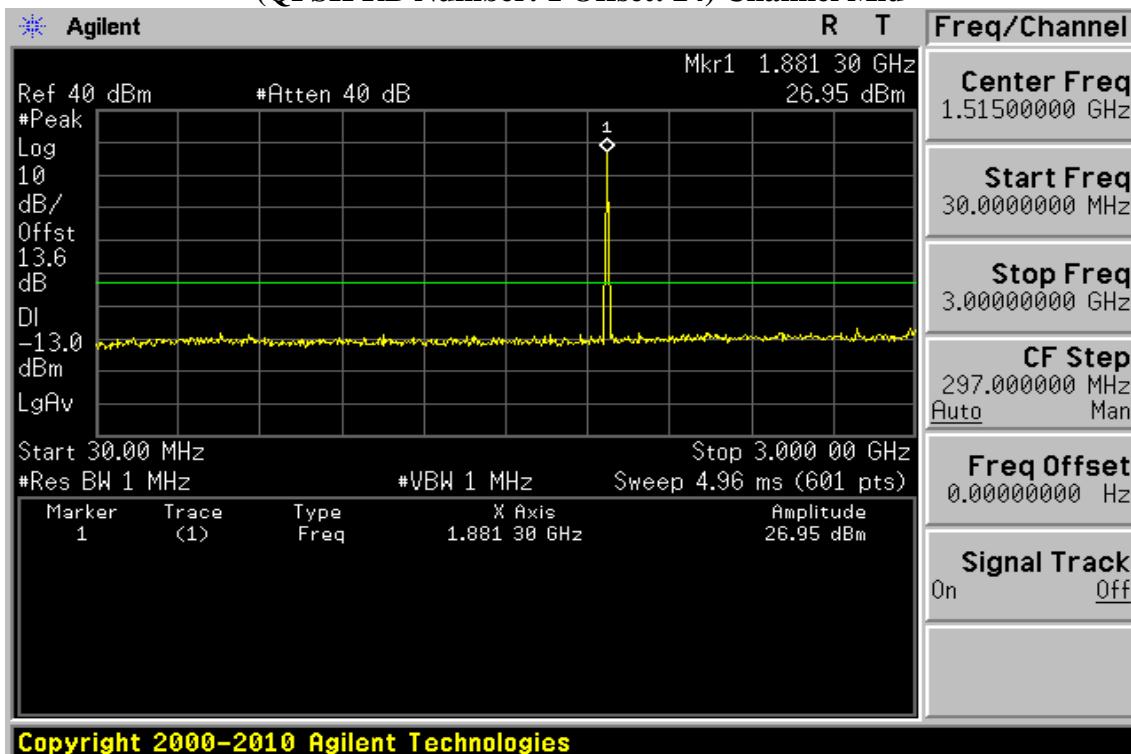
Figure 10-76: Out of Band emission at antenna terminals—5MHz BW LTE-Band 2
(QPSK RB Number: 1 Offset: 24) Channel Lowest

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**Figure 10-77: Out of Band emission at antenna terminals –5MHz BW LTE-Band 2
(QPSK RB Number: 1 Offset: 24) Channel Mid**

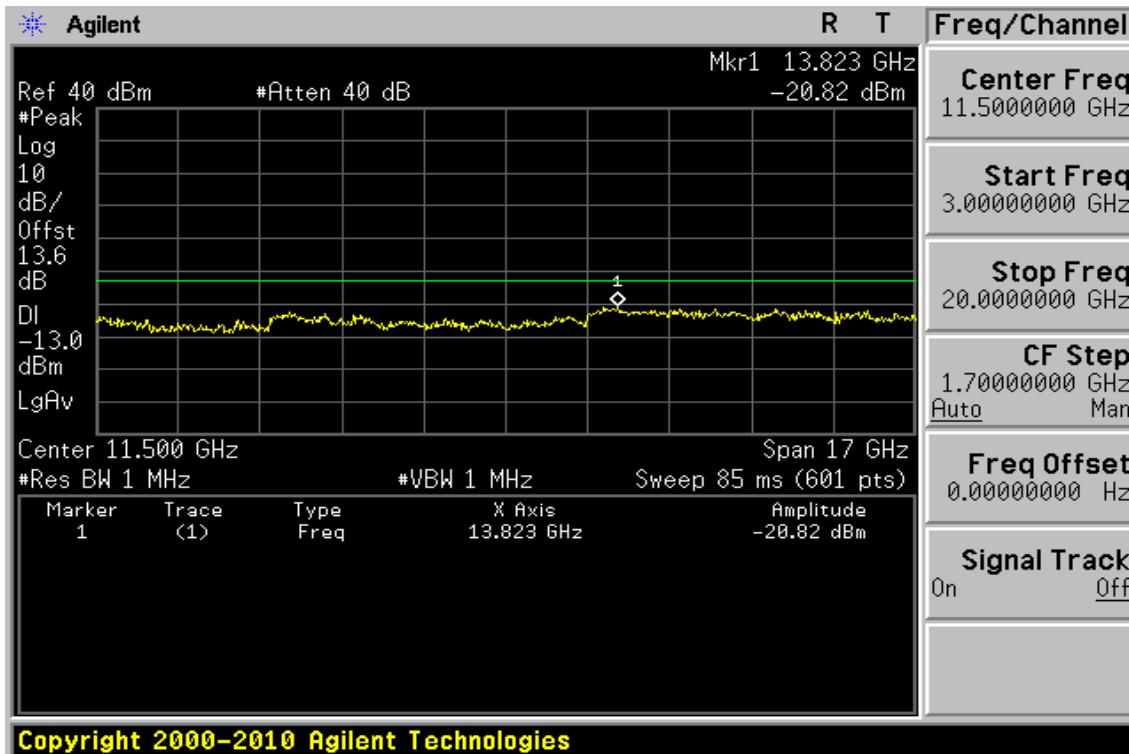
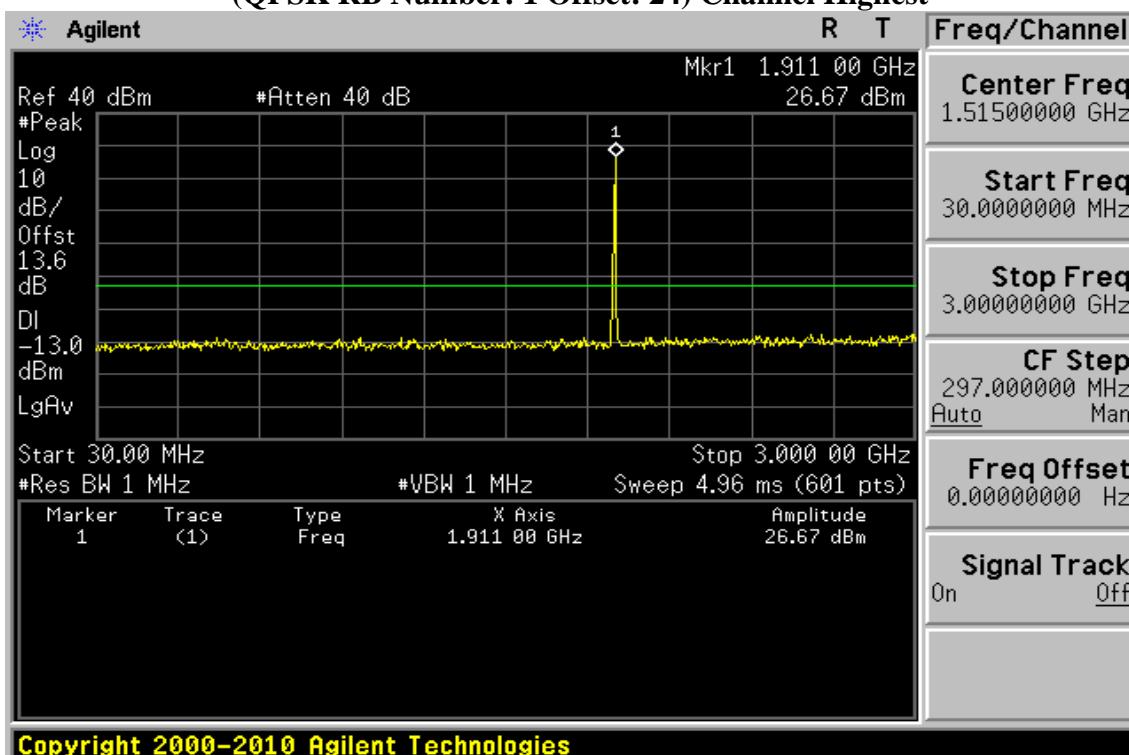


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**Figure 10-78: Out of Band emission at antenna terminals—5MHz BW LTE-Band 2
(QPSK RB Number: 1 Offset: 24) Channel Highest**

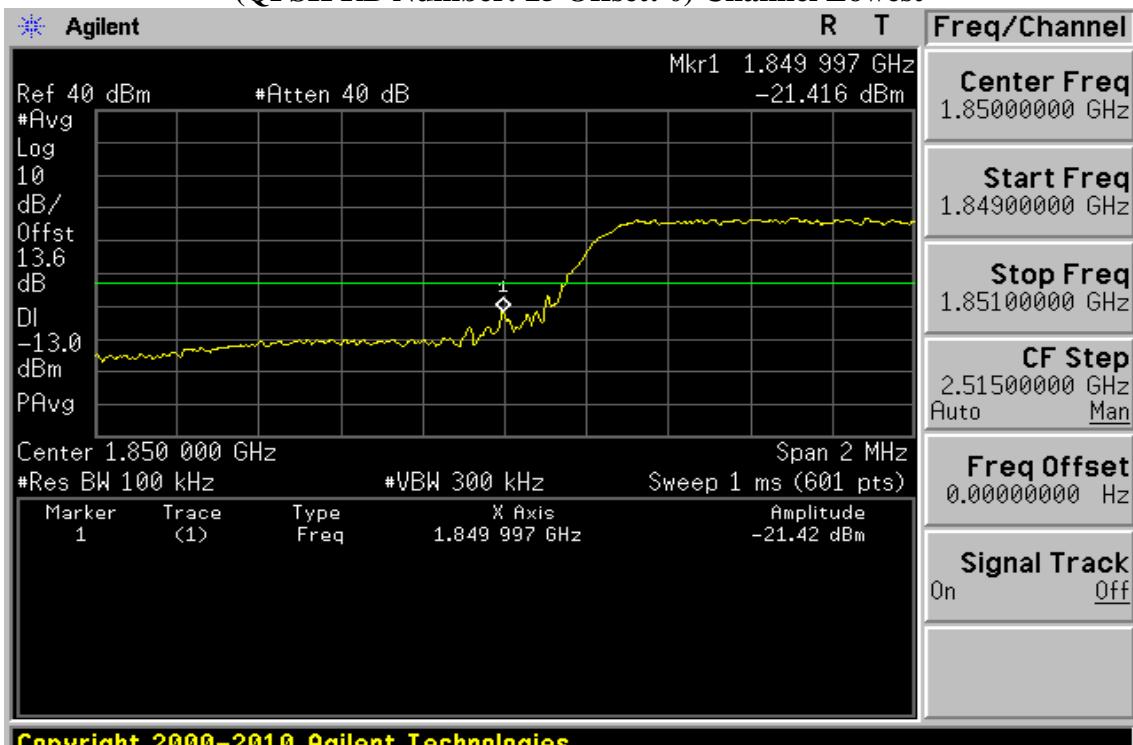


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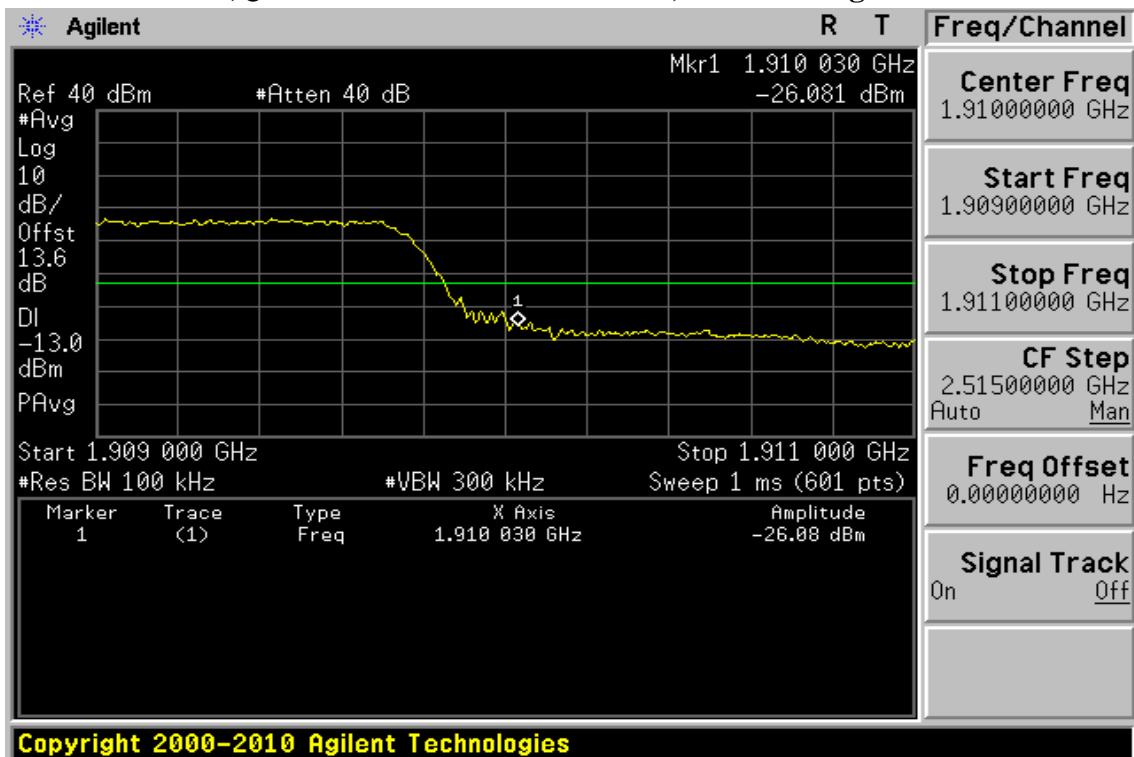
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**Figure 10-79: Band edge emission at antenna terminals –5MHz BW LTE-Band 2
(QPSK RB Number: 25 Offset: 0) Channel Lowest**



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**Figure 10-80: Band edge emission at antenna terminals –5MHz BW LTE-Band 2
(QPSK RB Number: 25 Offset: 0) Channel Highest**



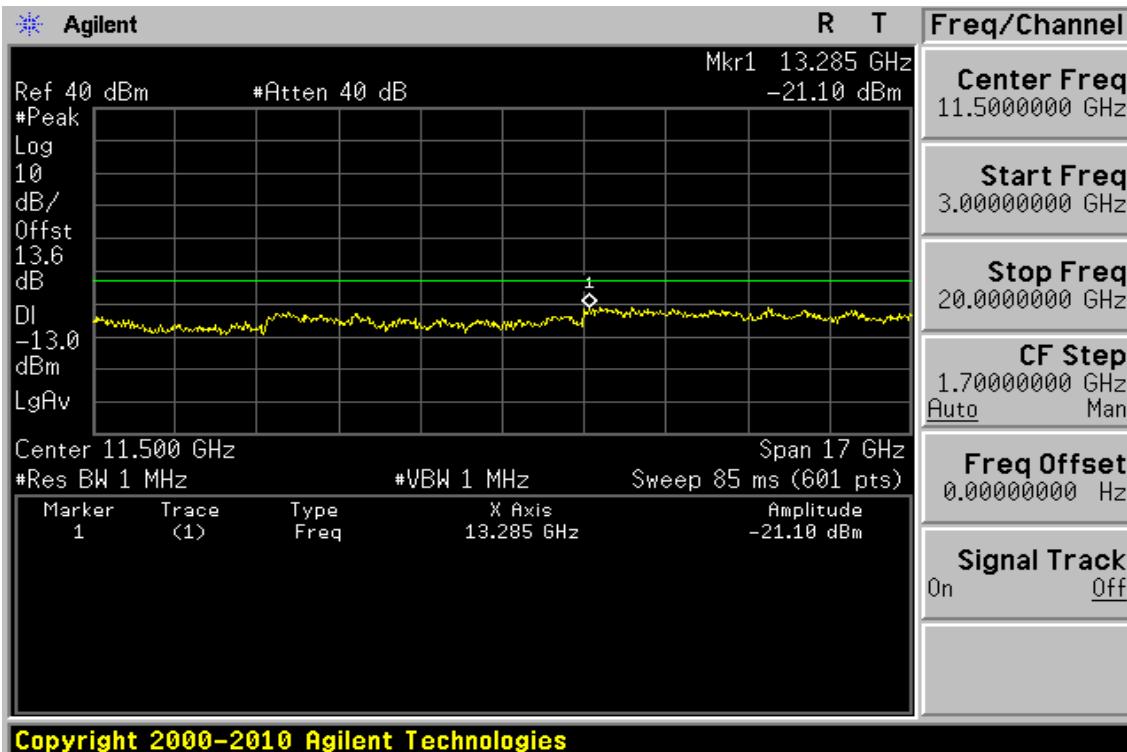
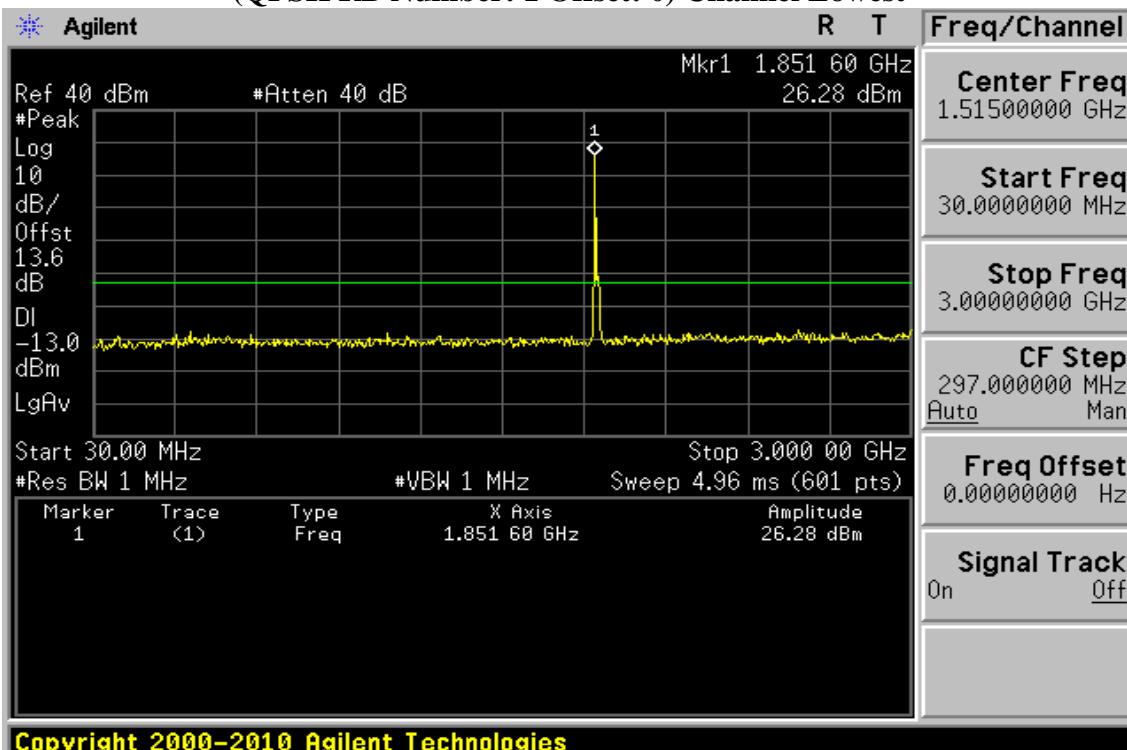
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**Figure 10-81: Out of Band emission at antenna terminals—10MHz BW LTE-Band 2
(QPSK RB Number: 1 Offset: 0) Channel Lowest**

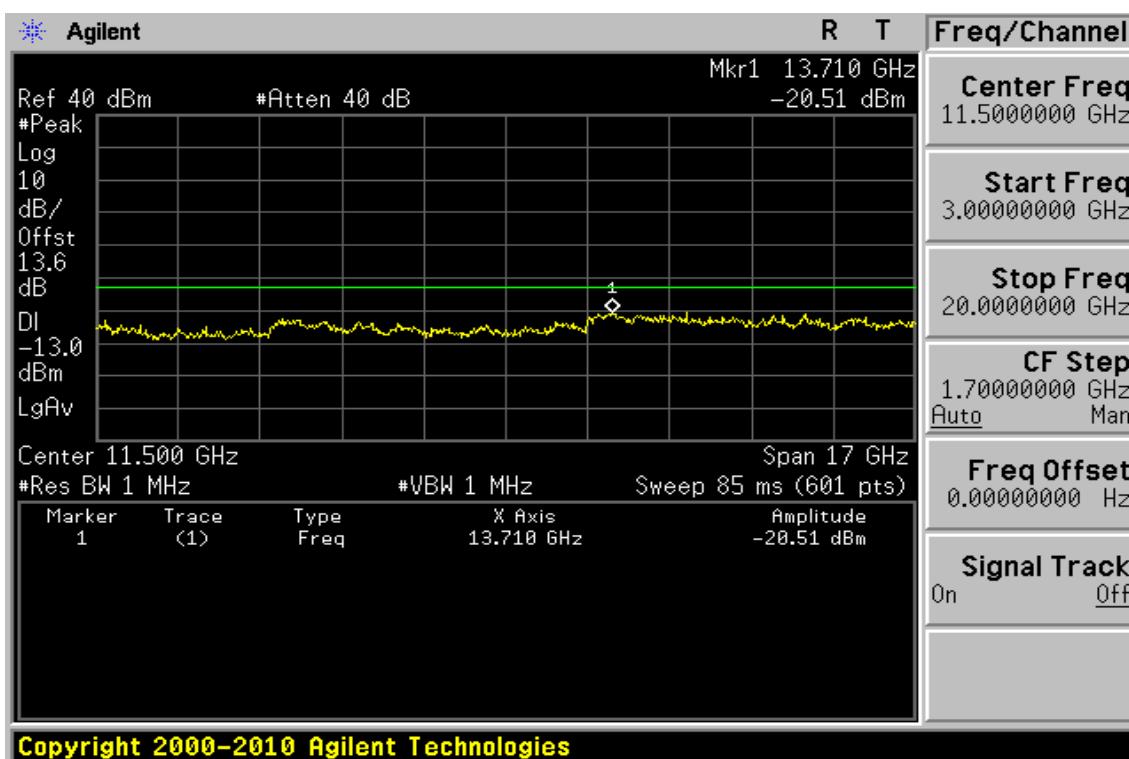
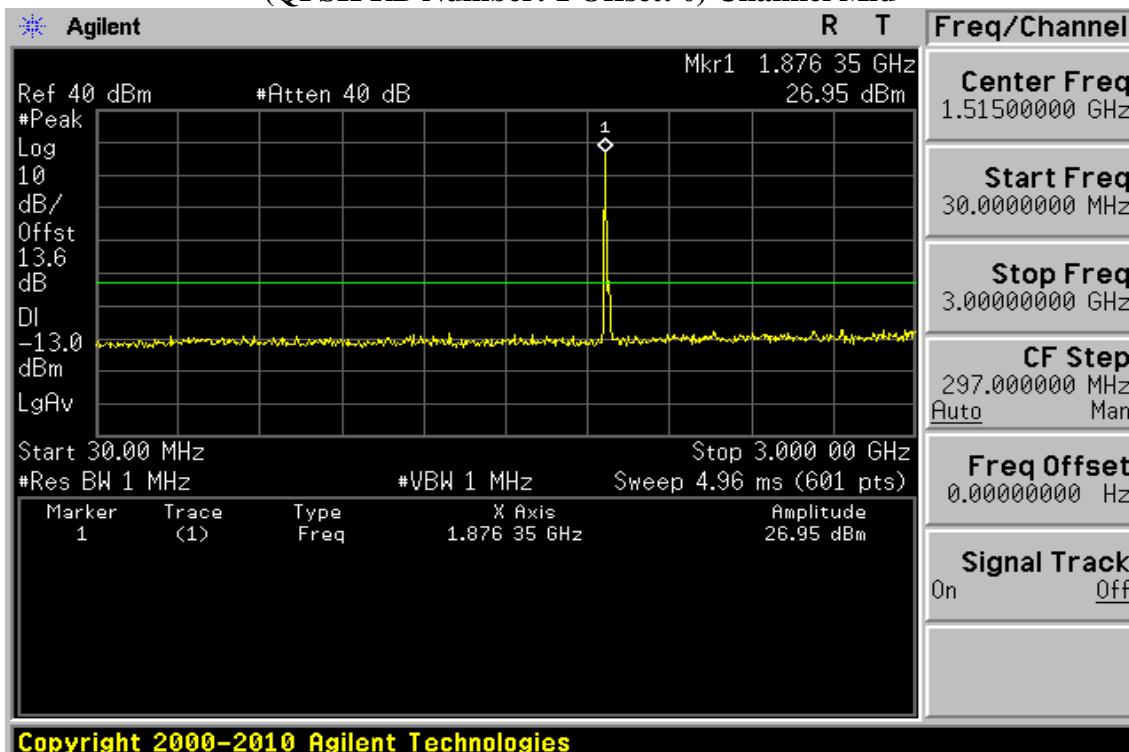


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Figure 10-82: Out of Band emission at antenna terminals –10MHz BW LTE-Band 2
(QPSK RB Number: 1 Offset: 0) Channel Mid

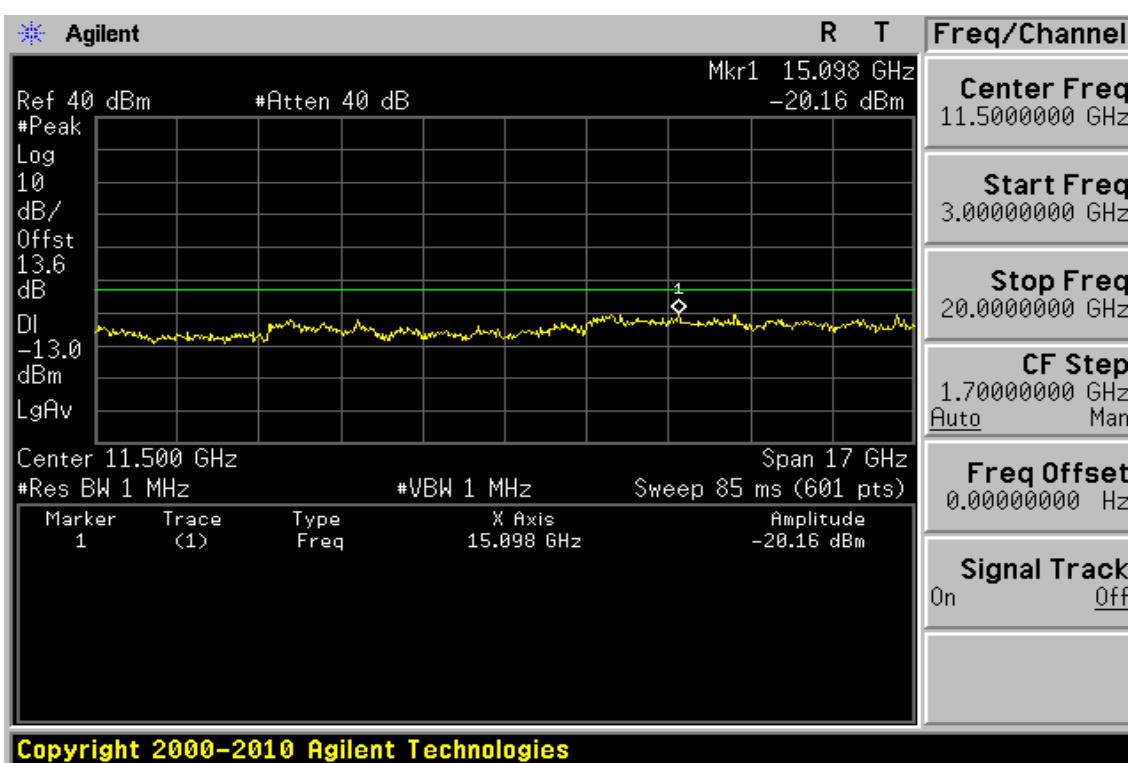
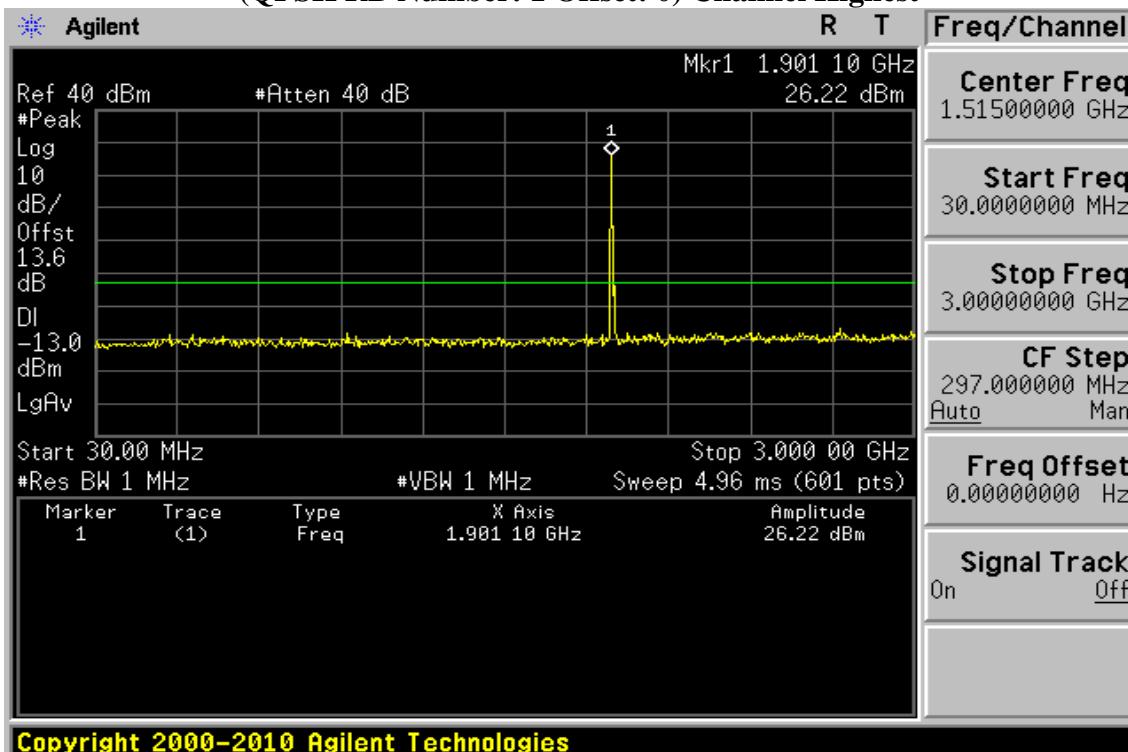


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**Figure 10-83: Out of Band emission at antenna terminals–10MHz BW LTE-Band 2
(QPSK RB Number: 1 Offset: 0) Channel Highest**

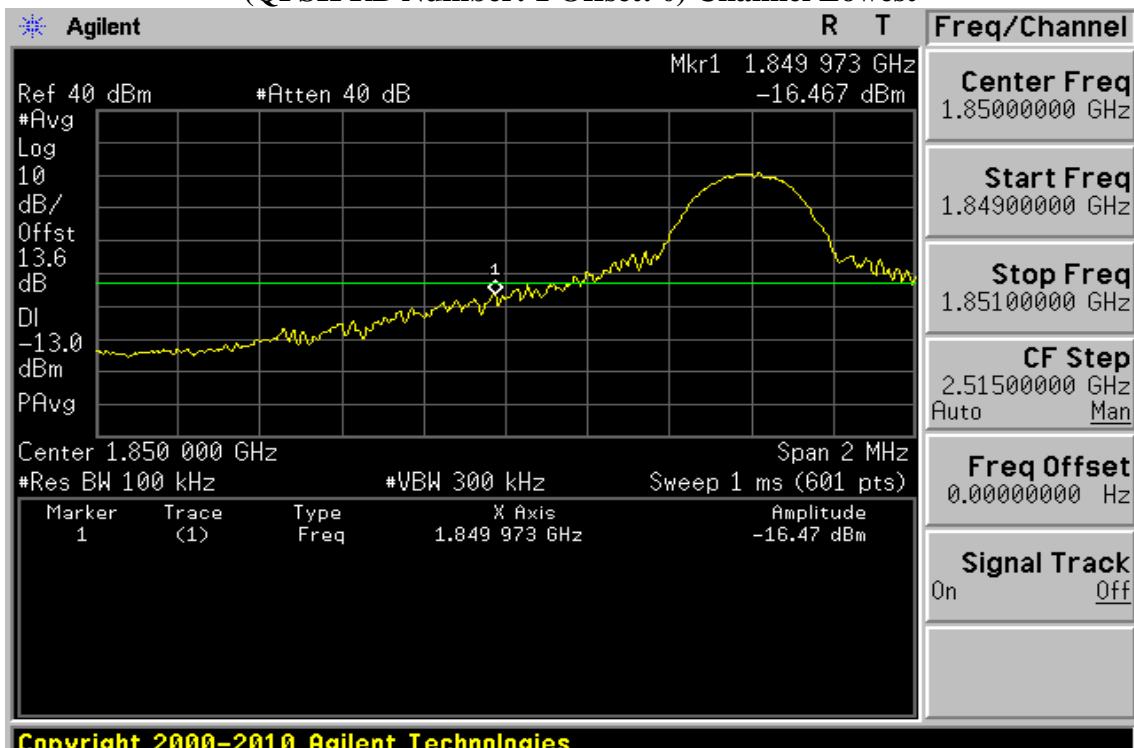


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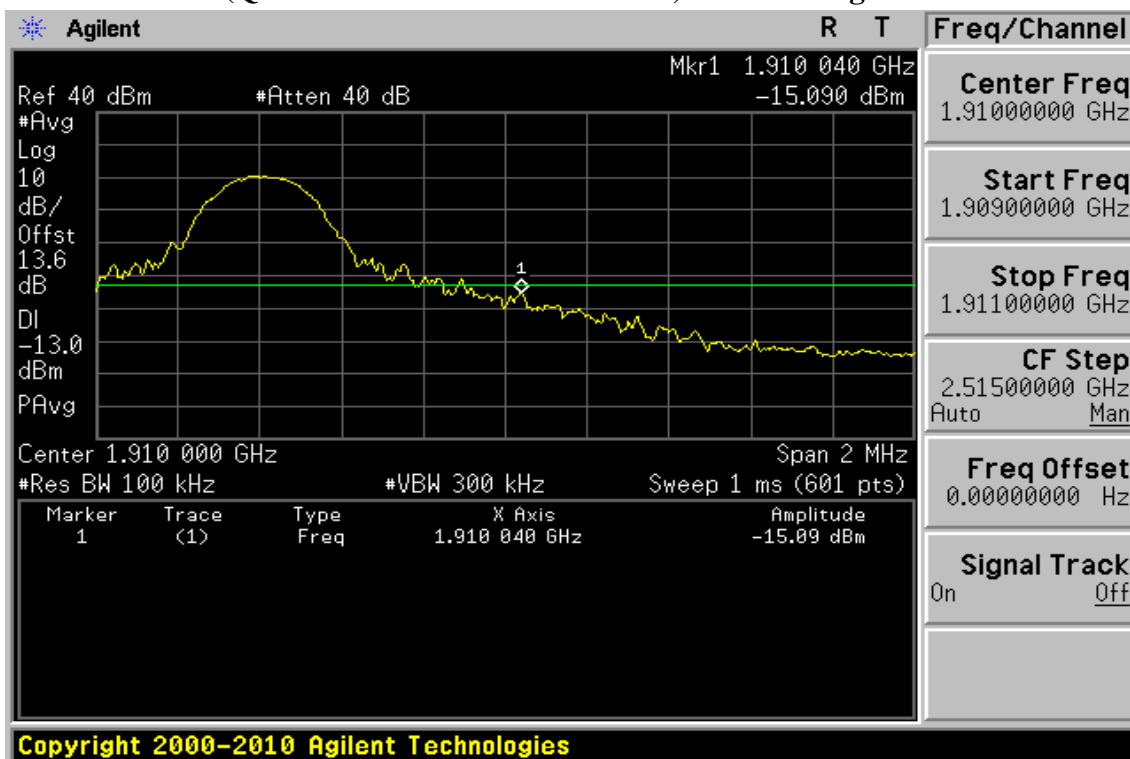
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**Figure 10-84: Band edge emission at antenna terminals –10MHz BW LTE-Band 2
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



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**Figure 10-85: Band edge emission at antenna terminals –10MHz BW LTE-Band 2
(QPSK RB Number: 1 Offset: 49) Channel Highest**



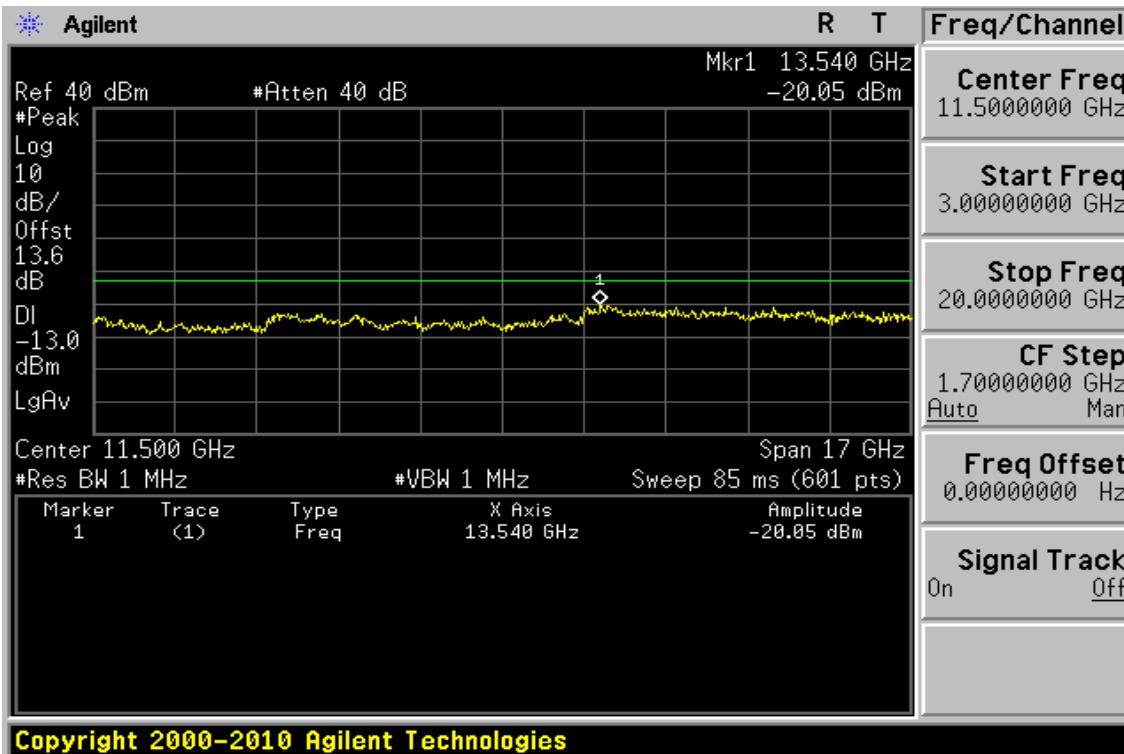
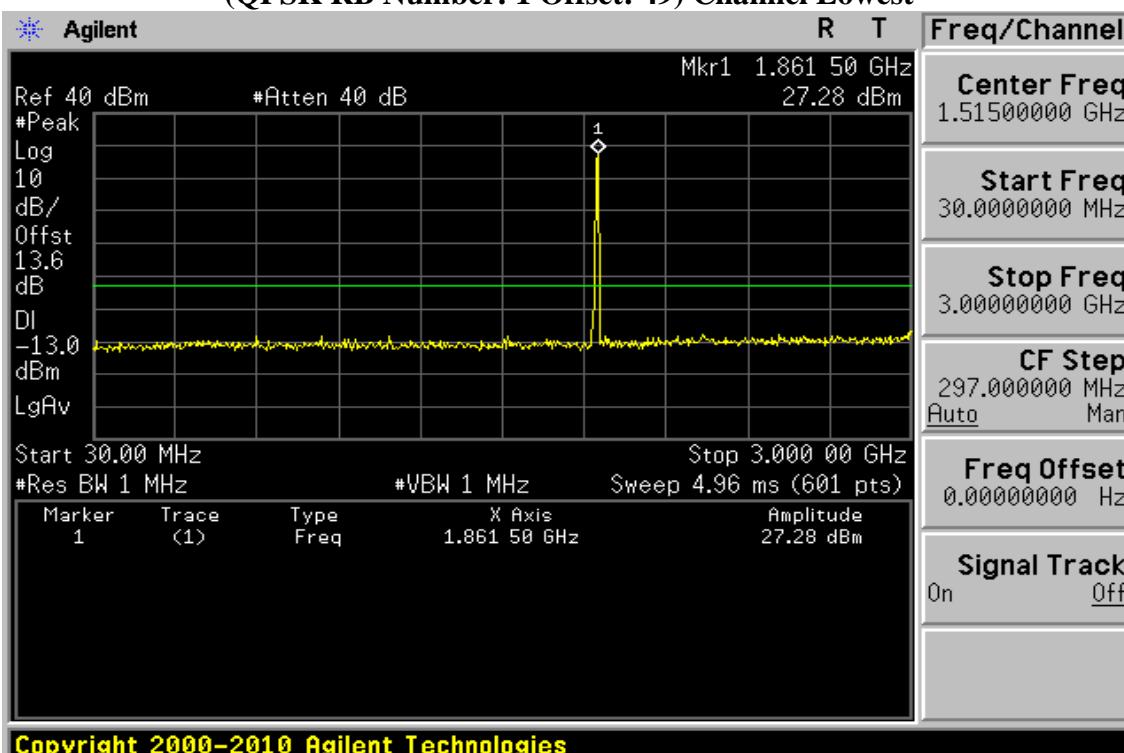
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**Figure 10-86: Out of Band emission at antenna terminals–10MHz BW LTE-Band 2
(QPSK RB Number: 1 Offset: 49) Channel Lowest**

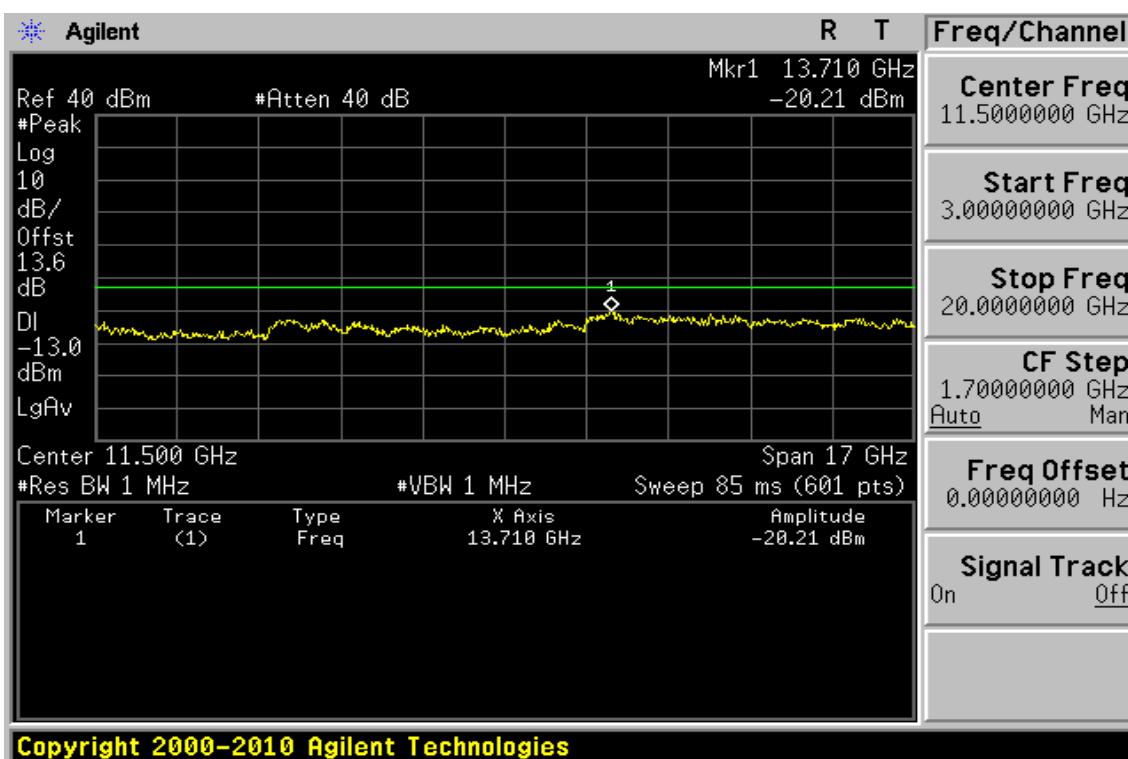
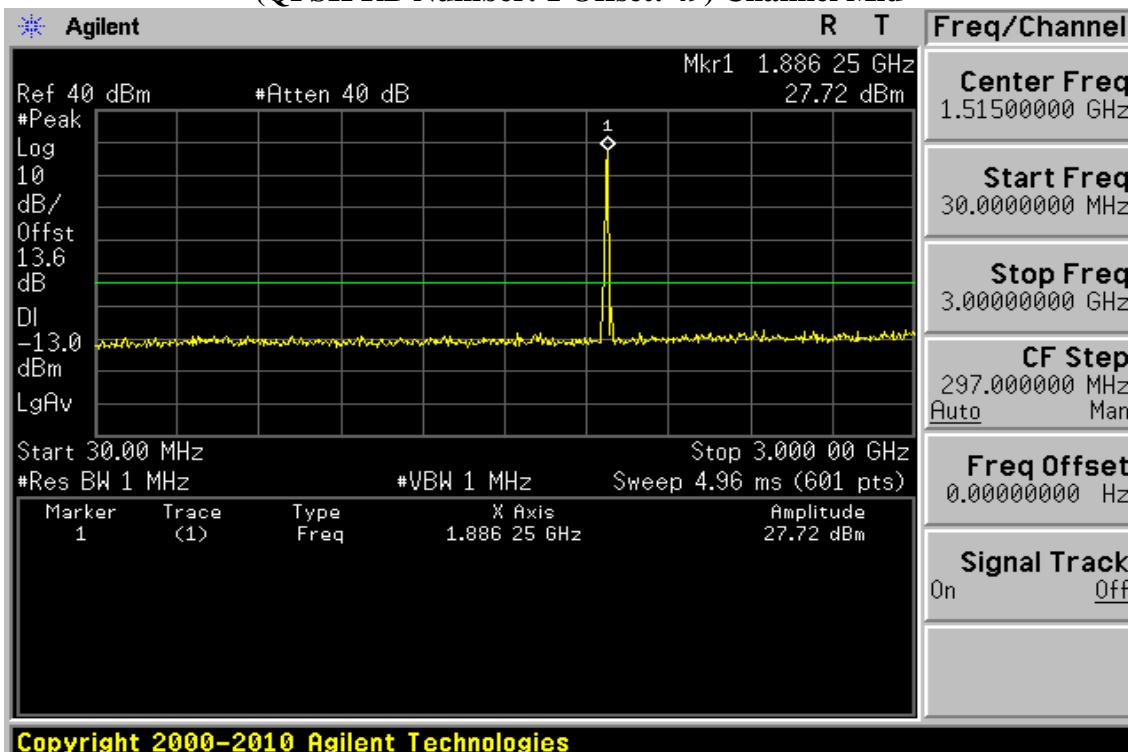


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Figure 10-87: Out of Band emission at antenna terminals –10MHz BW LTE-Band 2
(QPSK RB Number: 1 Offset: 49) Channel Mid

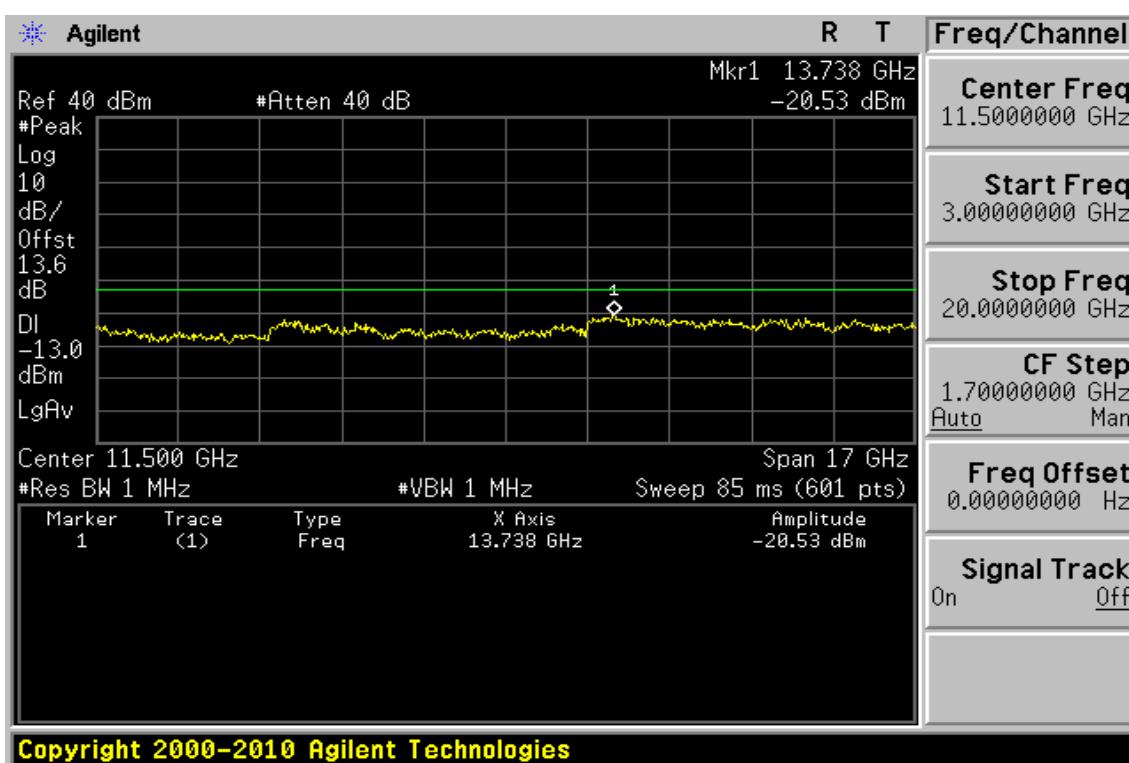
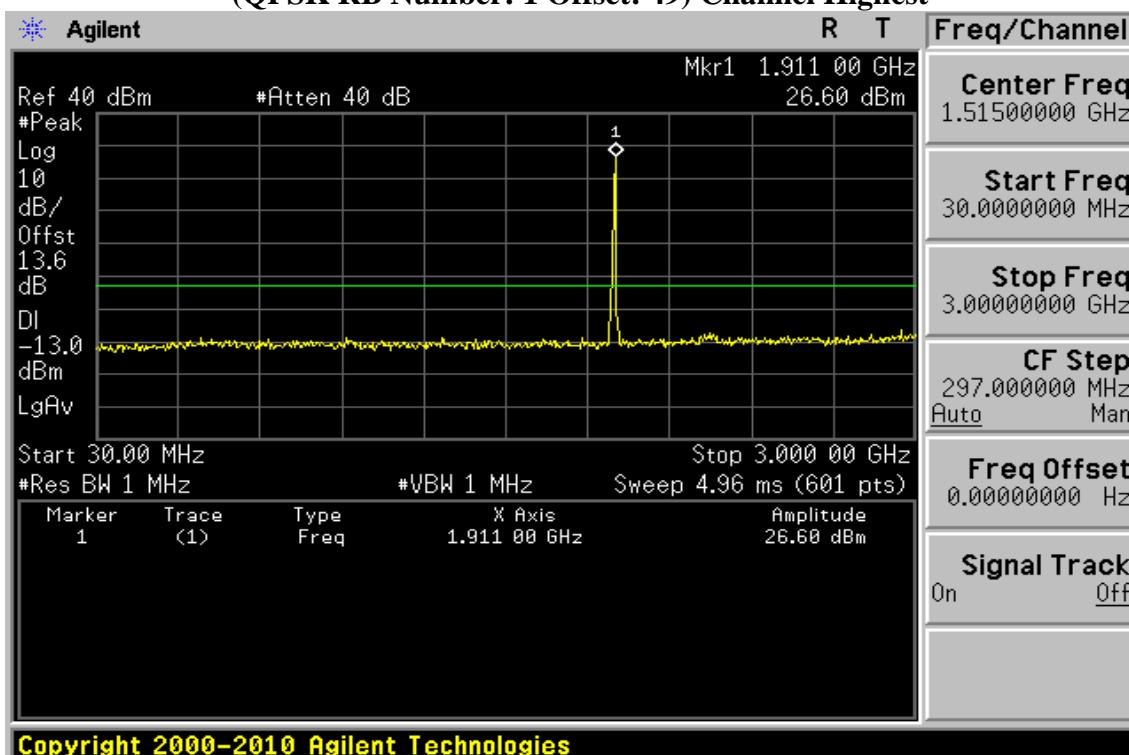


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**Figure 10-88: Out of Band emission at antenna terminals—10MHz BW LTE-Band 2
(QPSK RB Number: 1 Offset: 49) Channel Highest**

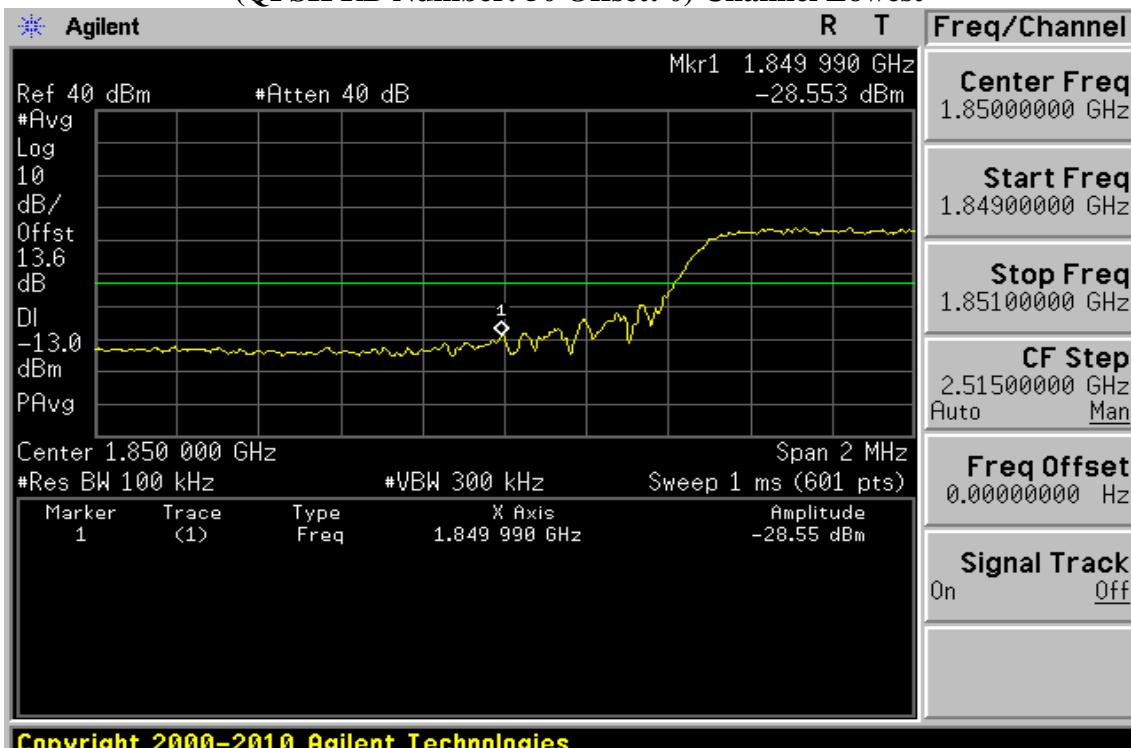


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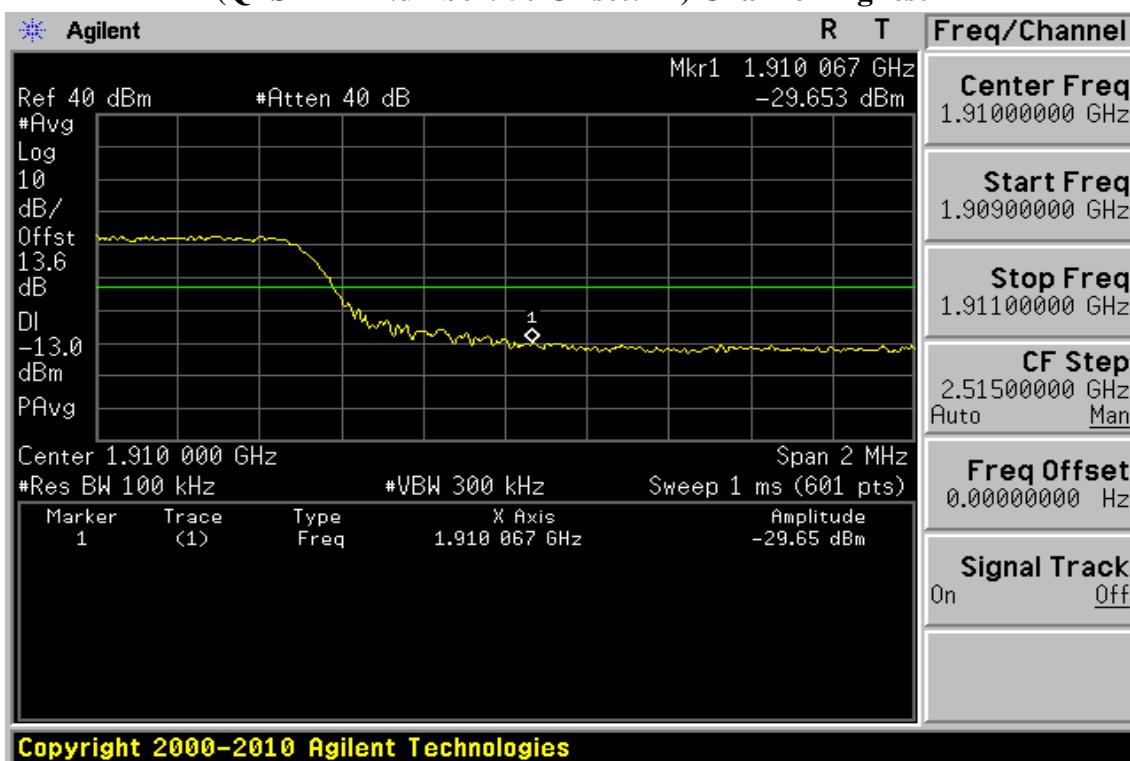
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**Figure 10-89: Band edge emission at antenna terminals –10MHz BW LTE-Band 2
(QPSK RB Number: 50 Offset: 0) Channel Lowest**



**Figure 10-90: Band edge emission at antenna terminals –10MHz BW LTE-Band 2
(QPSK RB Number: 50 Offset: 24) Channel Highest**

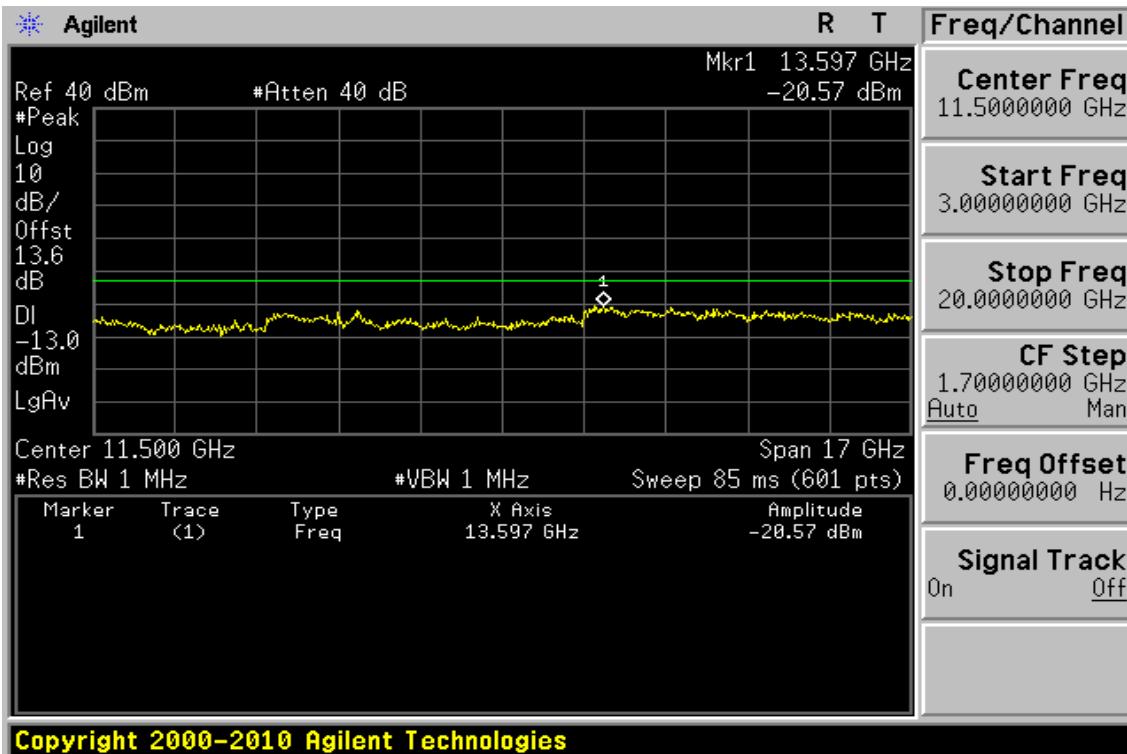
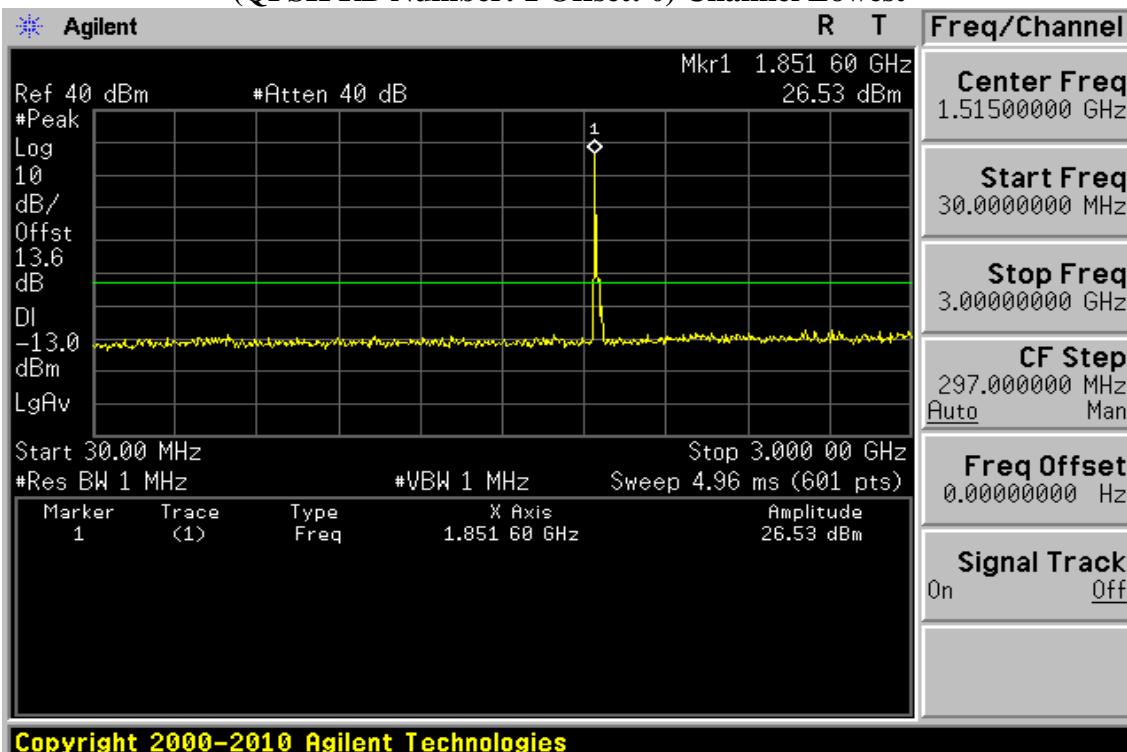


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**Figure 10-91: Out of Band emission at antenna terminals—15MHz BW LTE-Band 2
(QPSK RB Number: 1 Offset: 0) Channel Lowest**

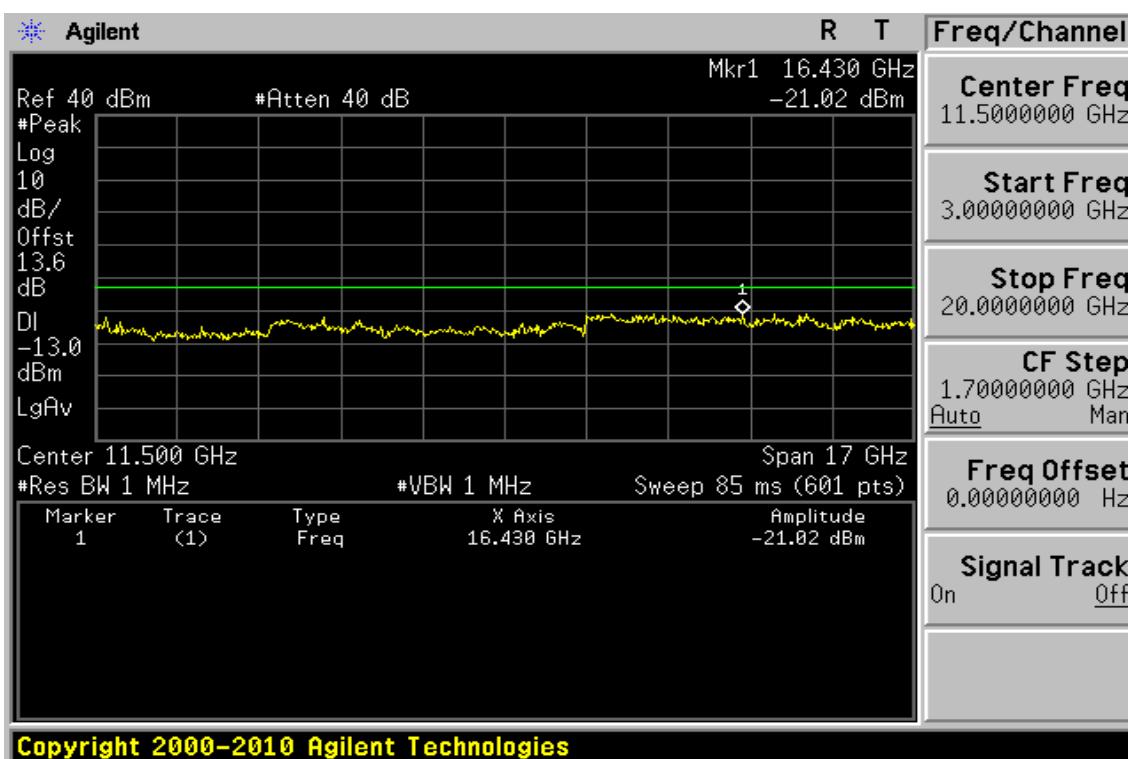
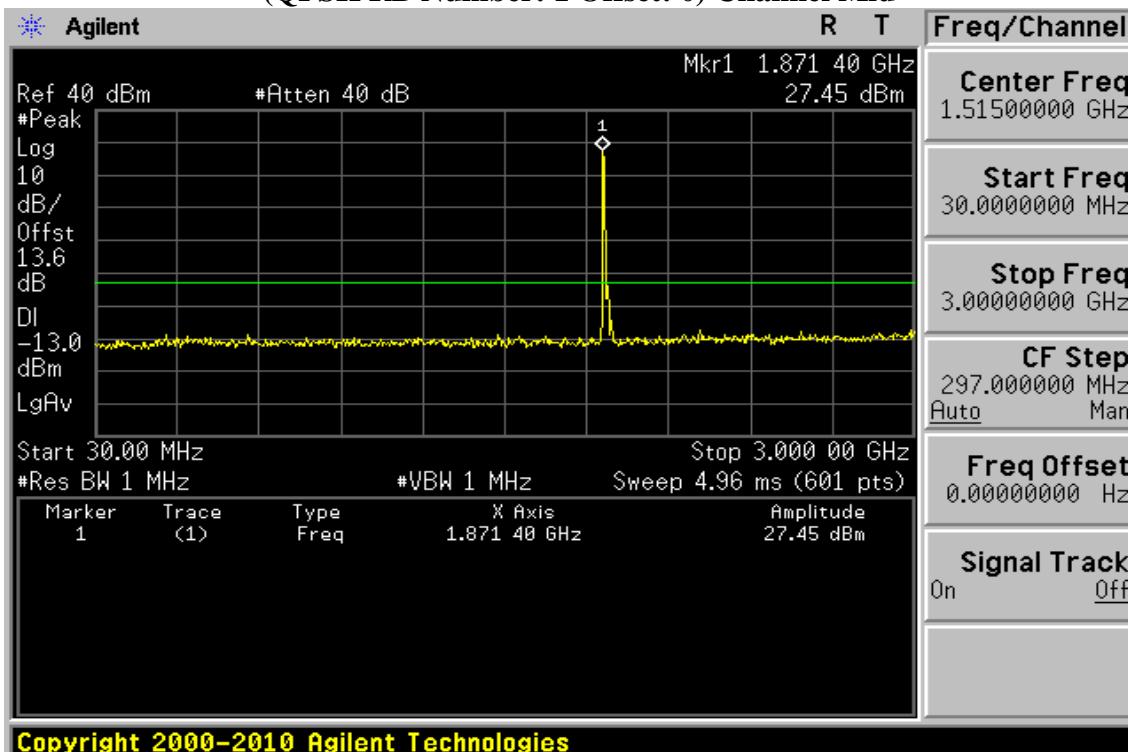


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Figure 10-92: Out of Band emission at antenna terminals –15MHz BW LTE-Band 2
(QPSK RB Number: 1 Offset: 0) Channel Mid

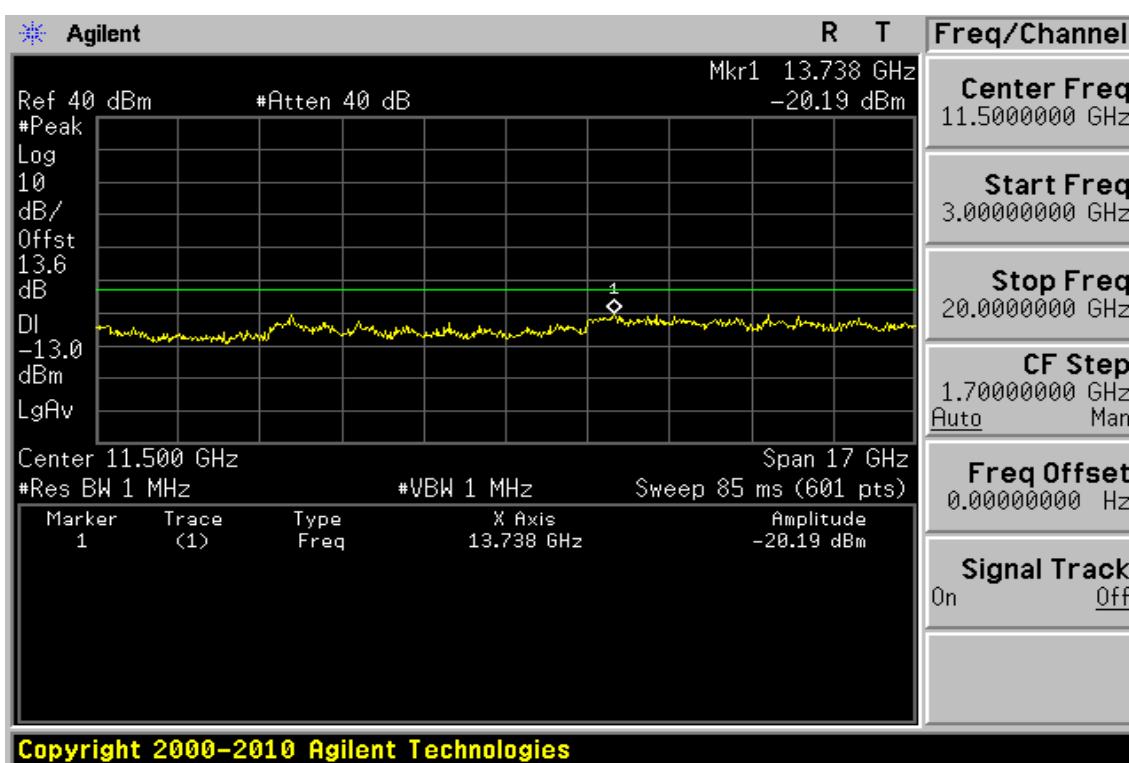
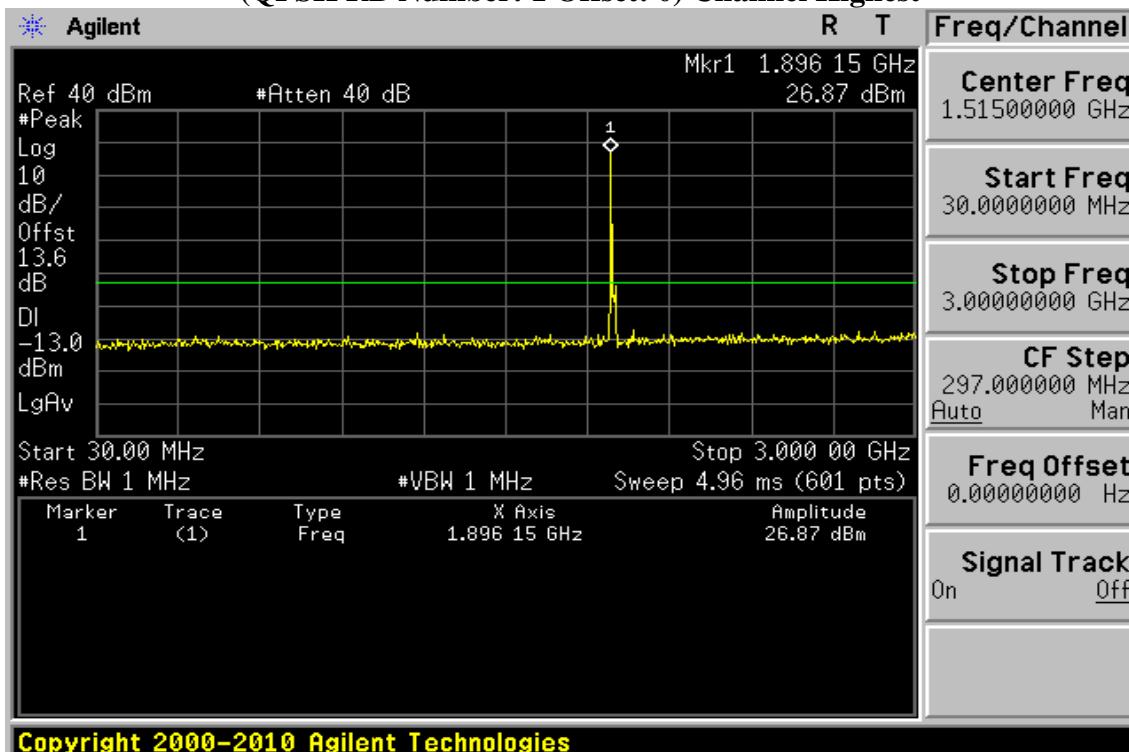


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**Figure 10-93: Out of Band emission at antenna terminals—15MHz BW LTE-Band 2
(QPSK RB Number: 1 Offset: 0) Channel Highest**

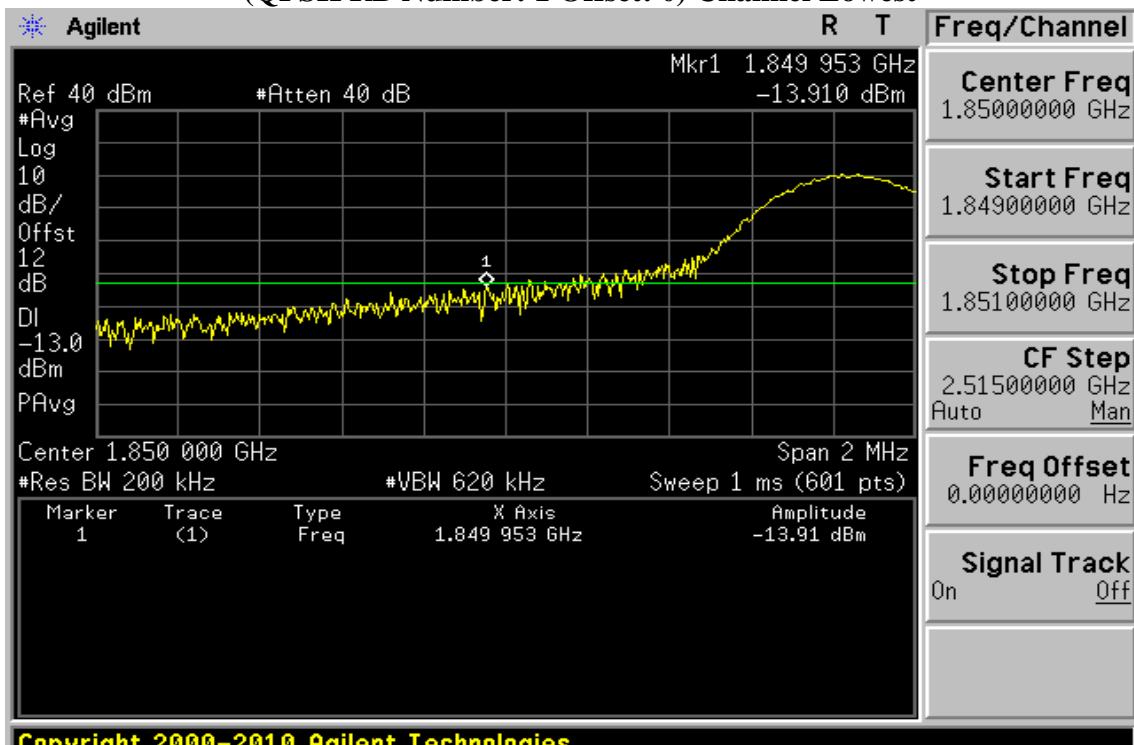


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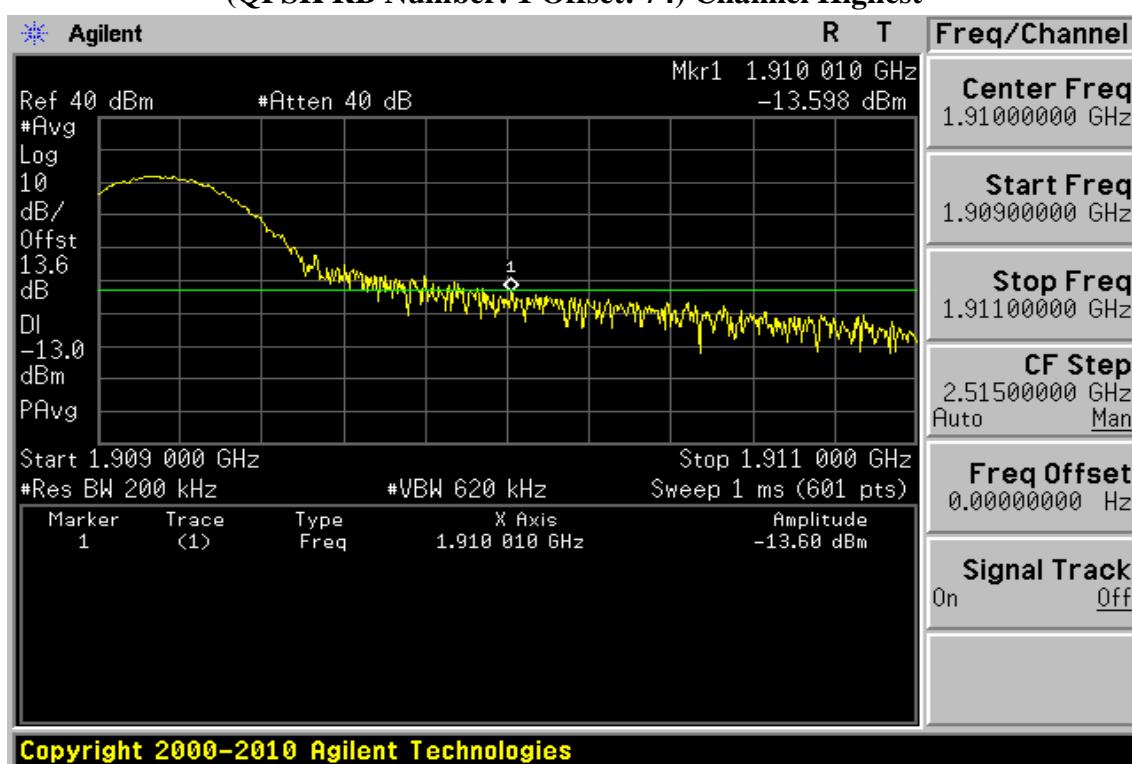
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**Figure 10-94: Band edge emission at antenna terminals –15MHz BW LTE-Band 2
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Figure 10-95: Band edge emission at antenna terminals –15MHz BW LTE-Band 2
(QPSK RB Number: 1 Offset: 74) Channel Highest**

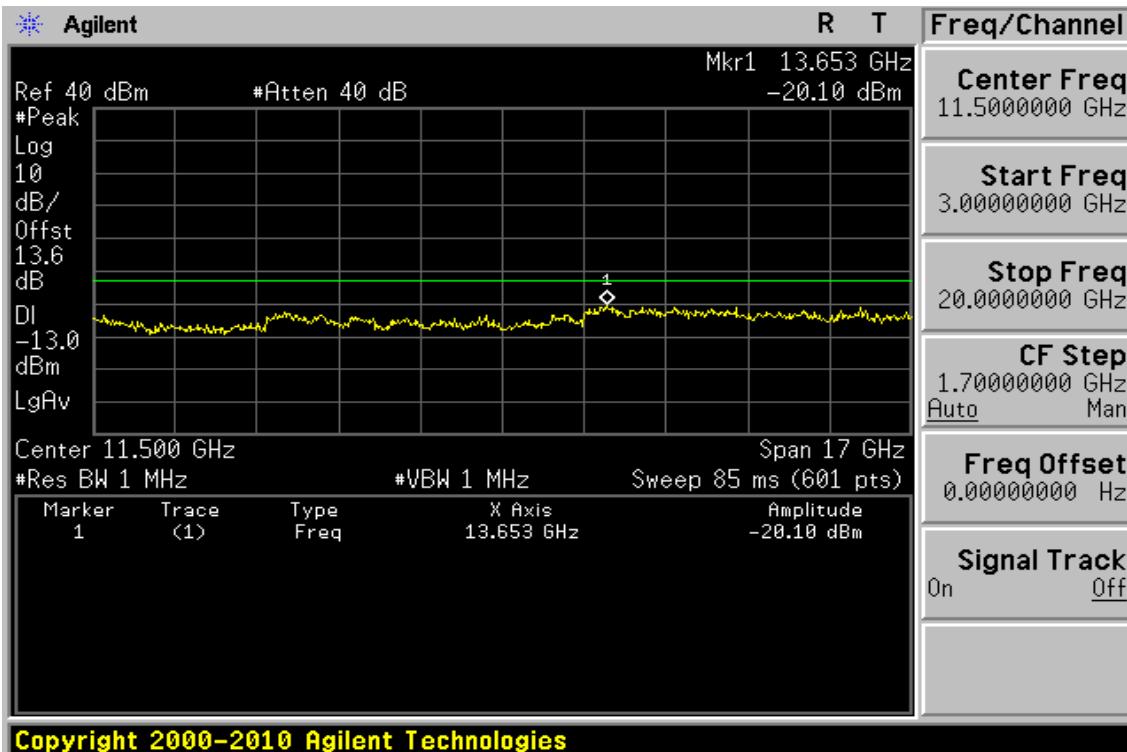
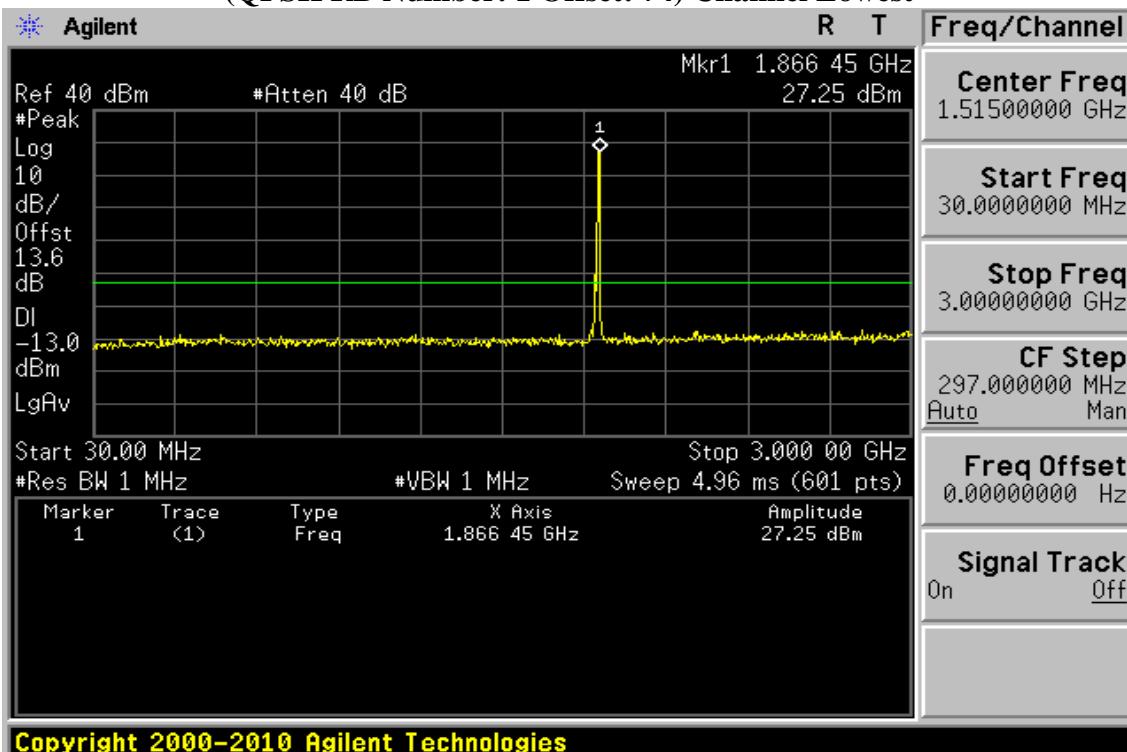


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**Figure 10-96: Out of Band emission at antenna terminals—15MHz BW LTE-Band 2
(QPSK RB Number: 1 Offset: 74) Channel Lowest**

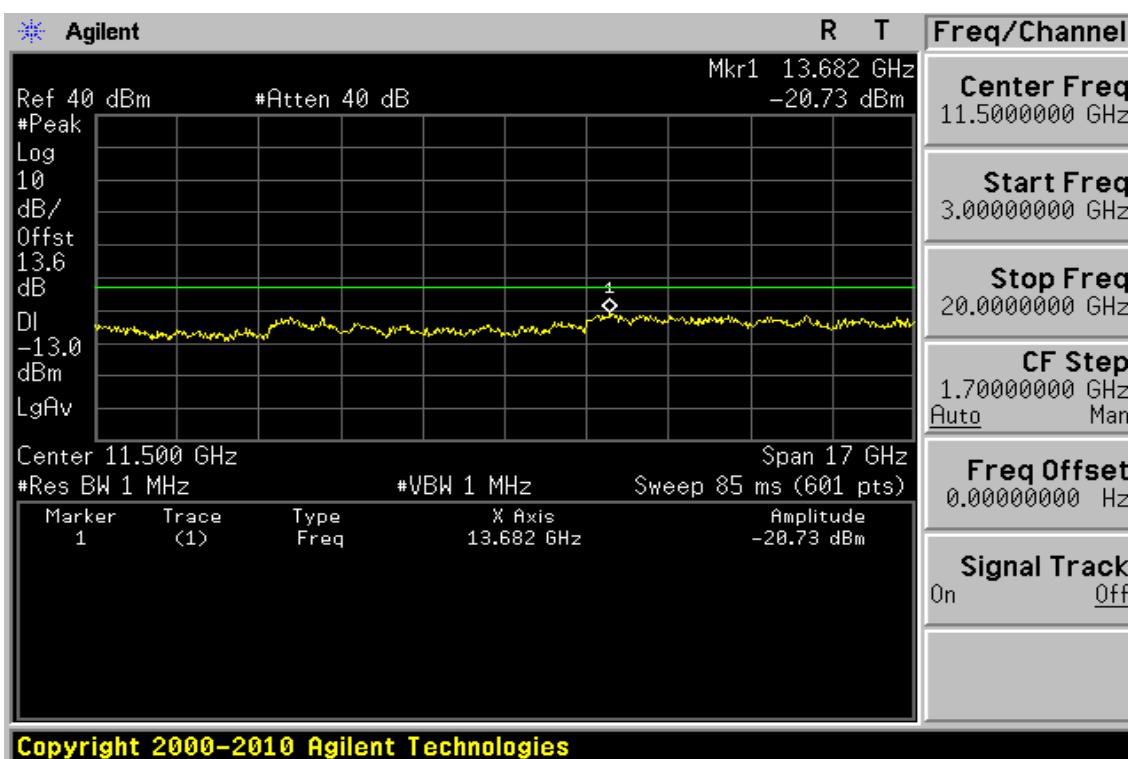
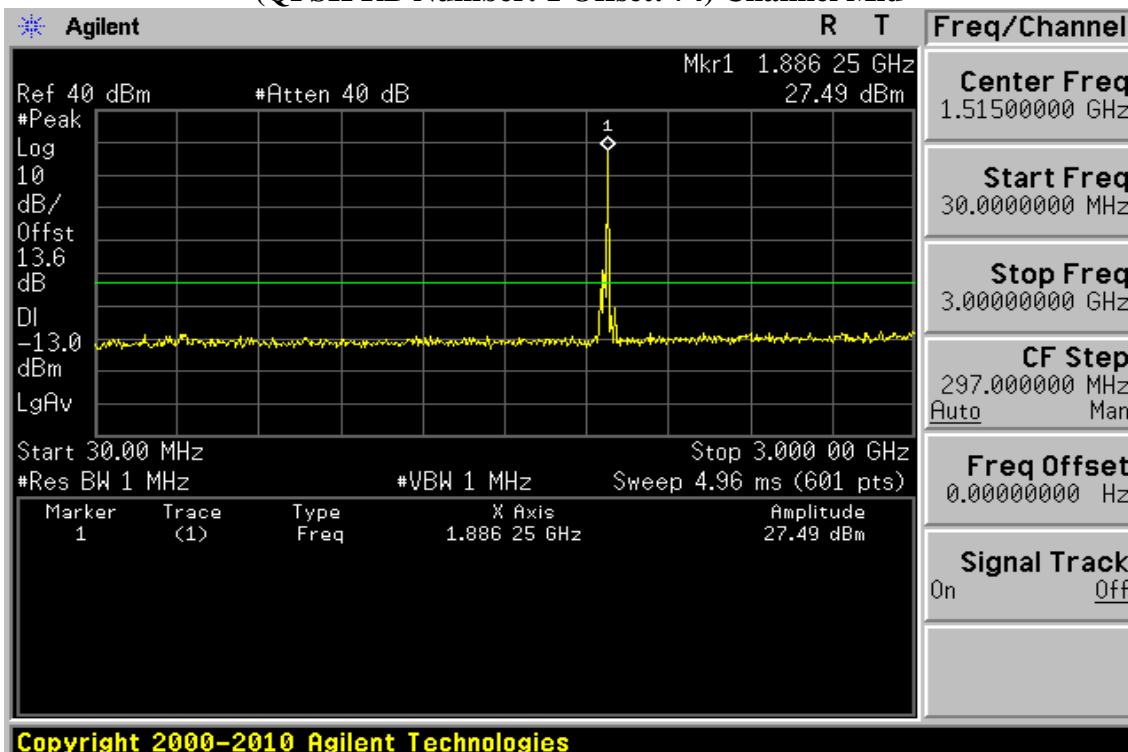


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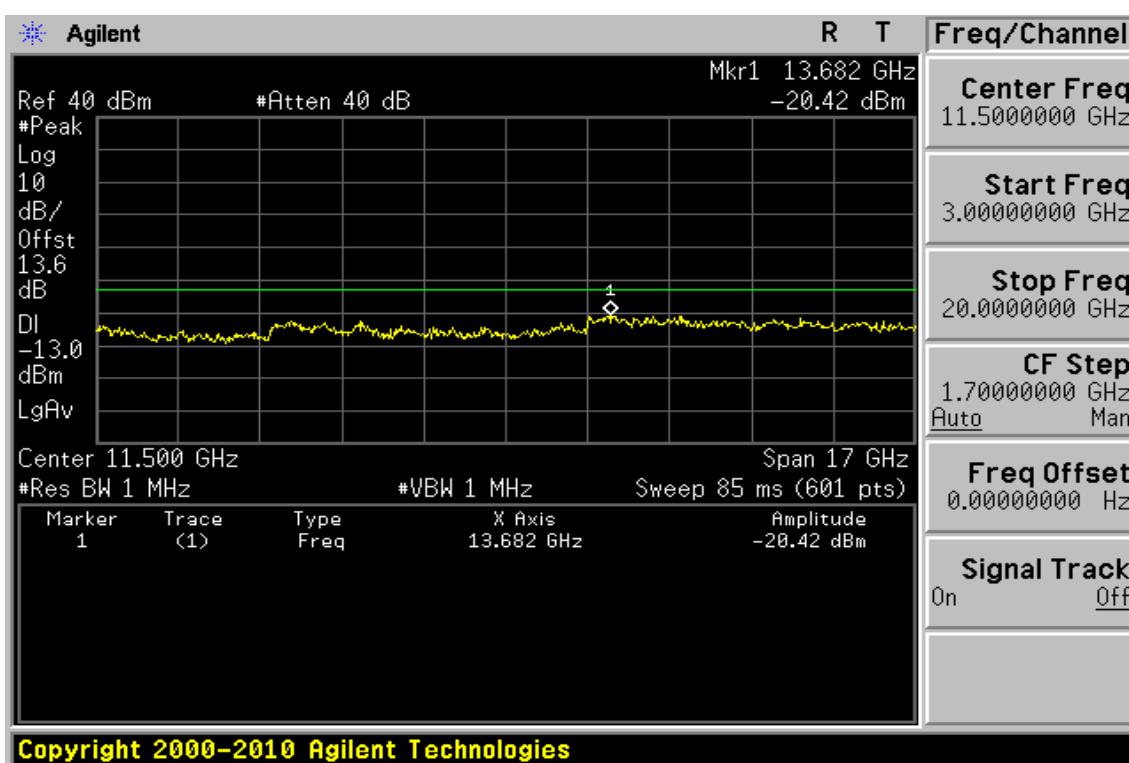
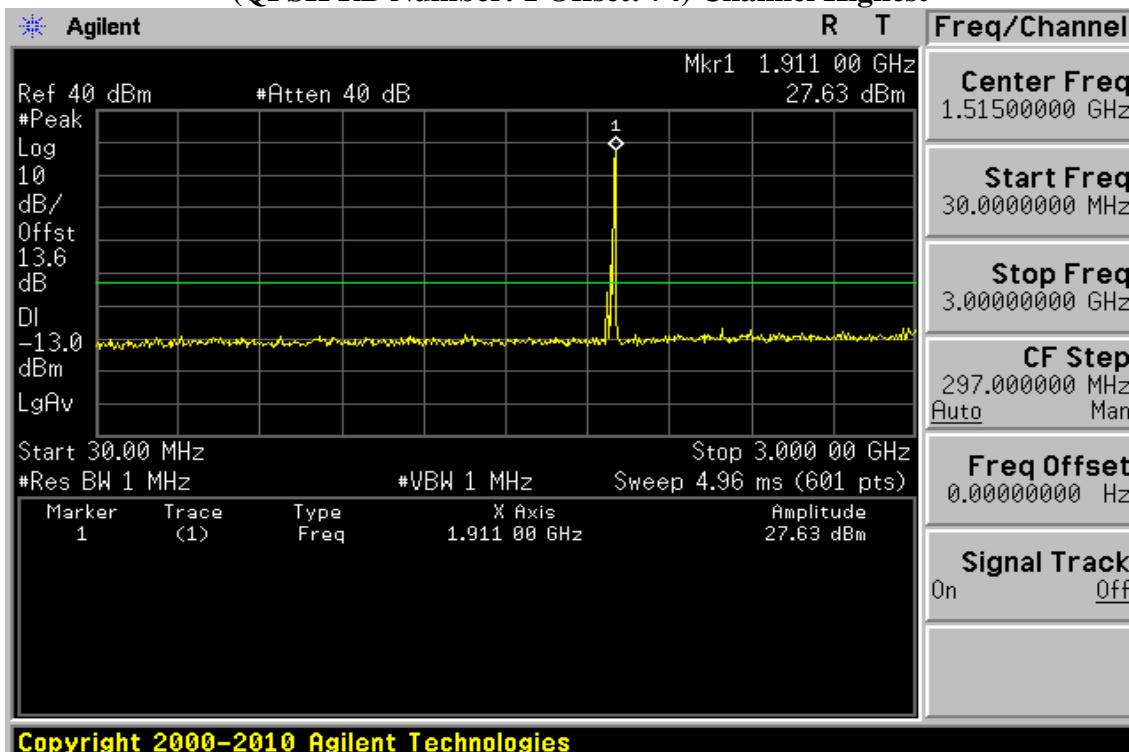
Figure 10-97: Out of Band emission at antenna terminals –15MHz BW LTE-Band 2
(QPSK RB Number: 1 Offset: 74) Channel Mid



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**Figure 10-98: Out of Band emission at antenna terminals—15MHz BW LTE-Band 2
(QPSK RB Number: 1 Offset: 74) Channel Highest**

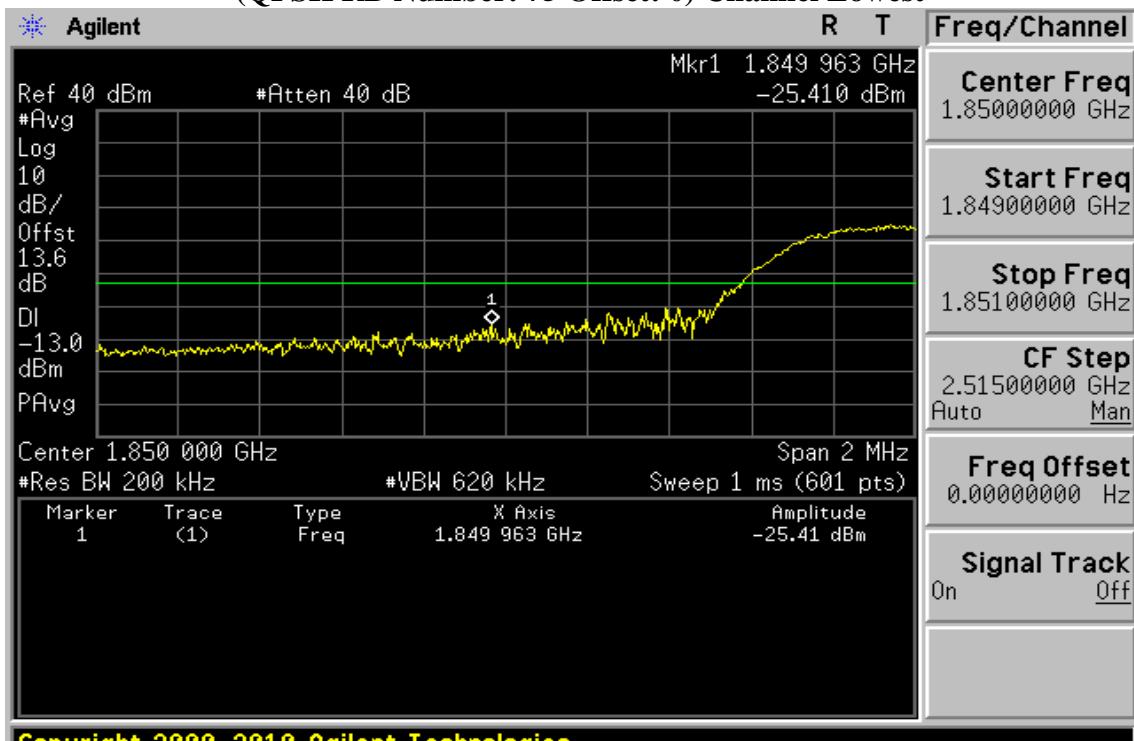


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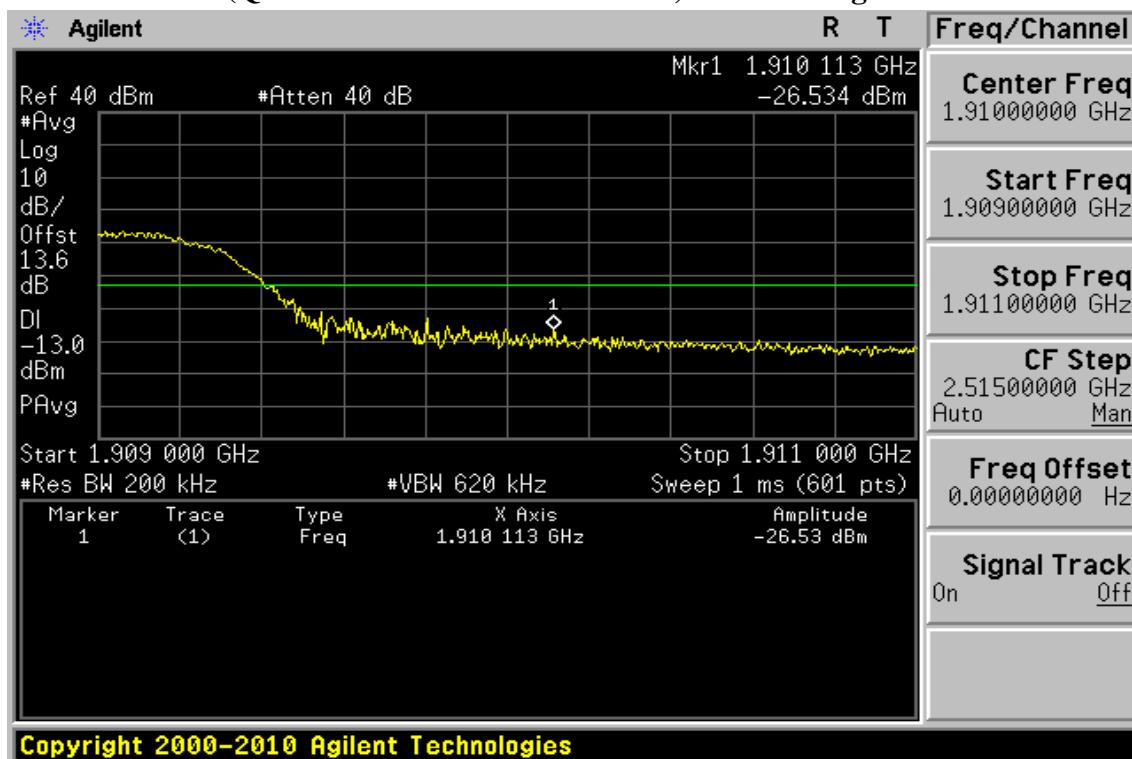
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**Figure 10-99: Band edge emission at antenna terminals –15MHz BW LTE-Band 2
(QPSK RB Number: 75 Offset: 0) Channel Lowest**



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**Figure 10-100: Band edge emission at antenna terminals –15MHz BW LTE-Band 2
(QPSK RB Number: 75 Offset: 0) Channel Highest**



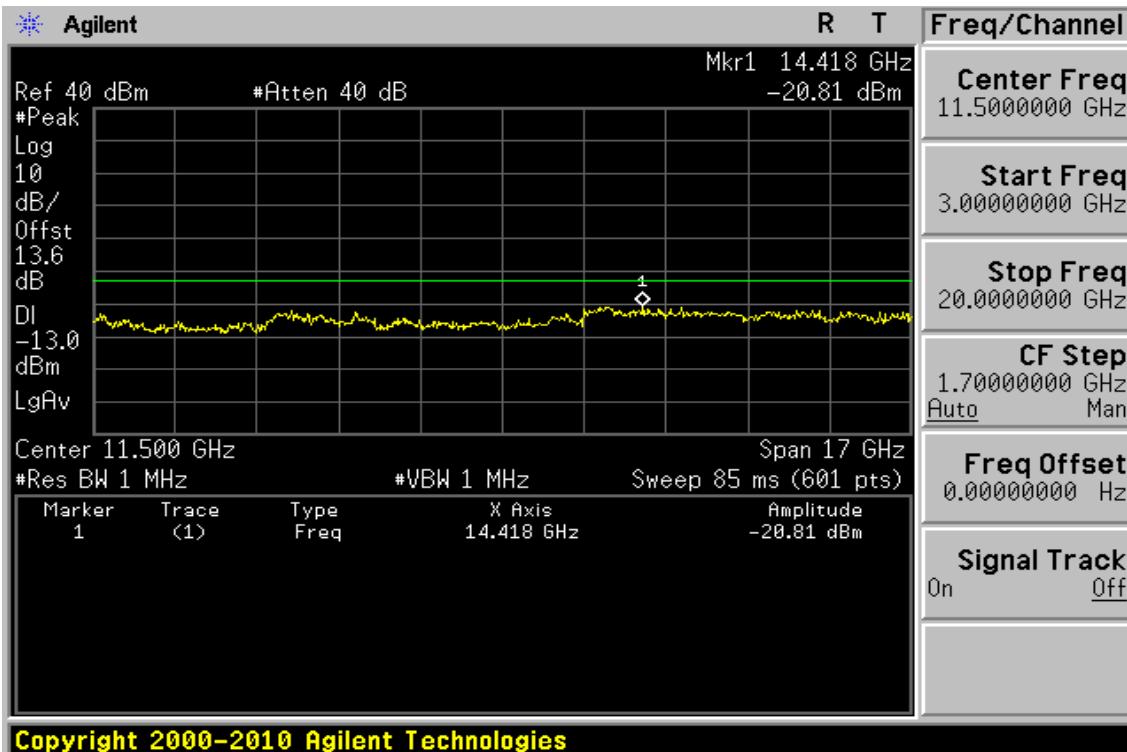
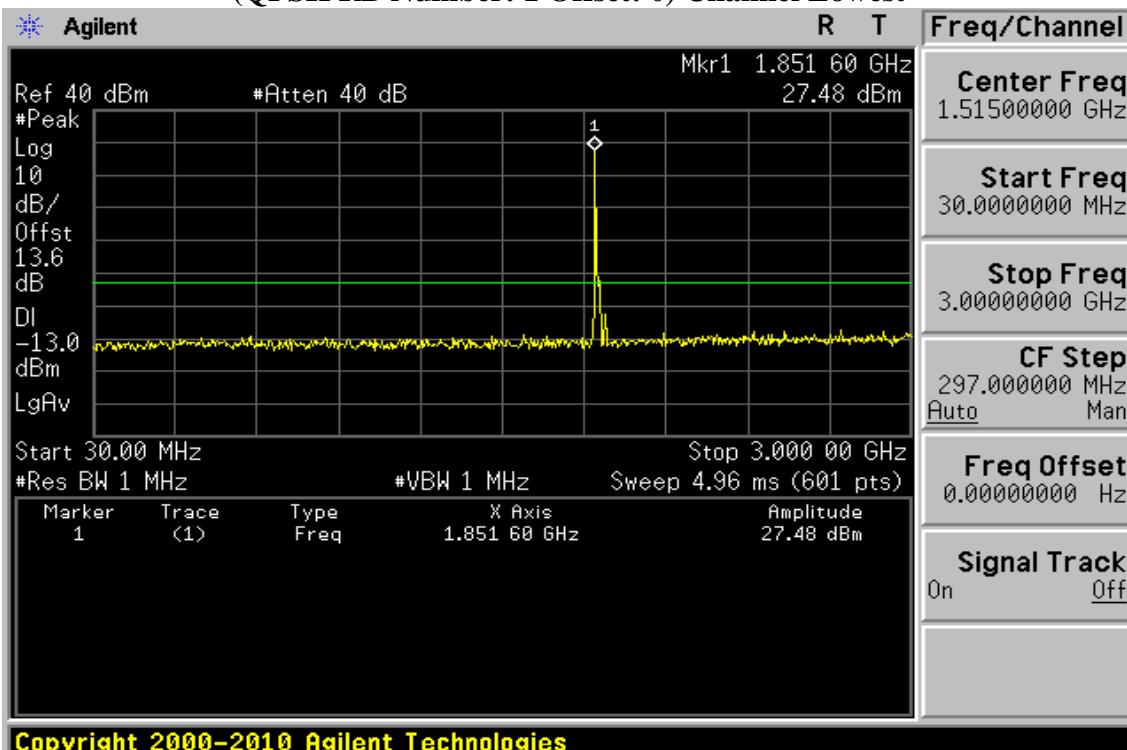
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**Figure 10-101: Out of Band emission at antenna terminals–20MHz BW LTE-Band 2
(QPSK RB Number: 1 Offset: 0) Channel Lowest**

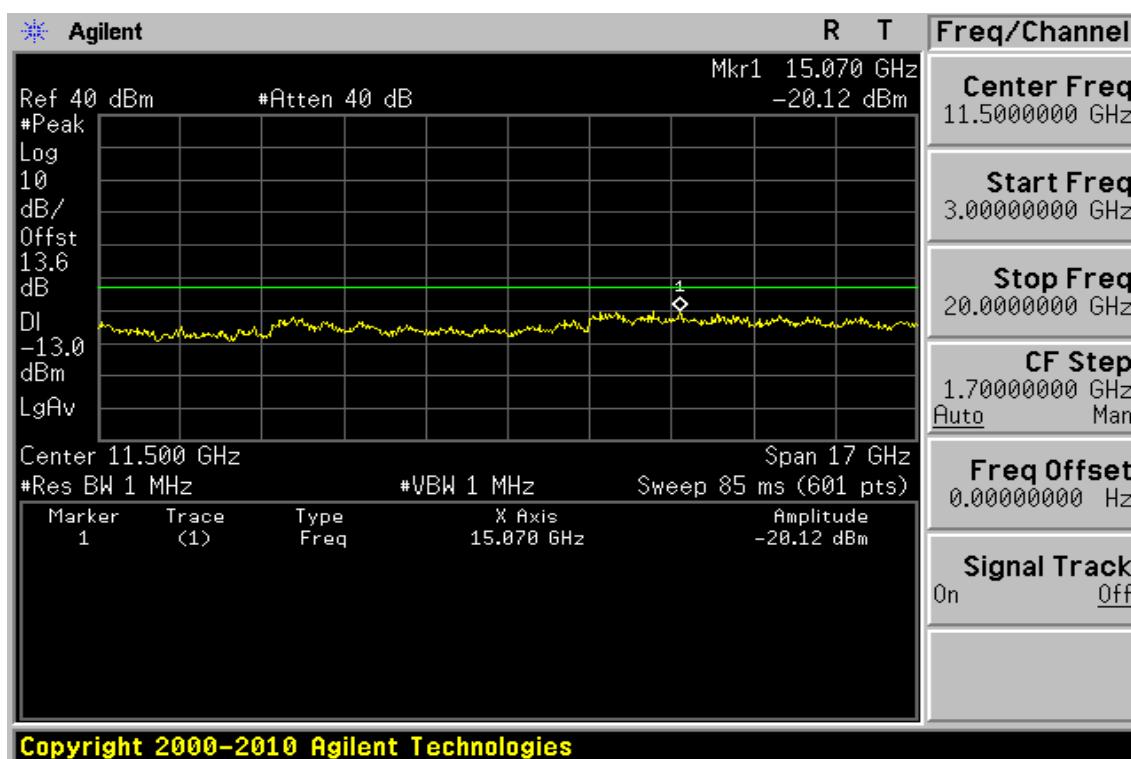
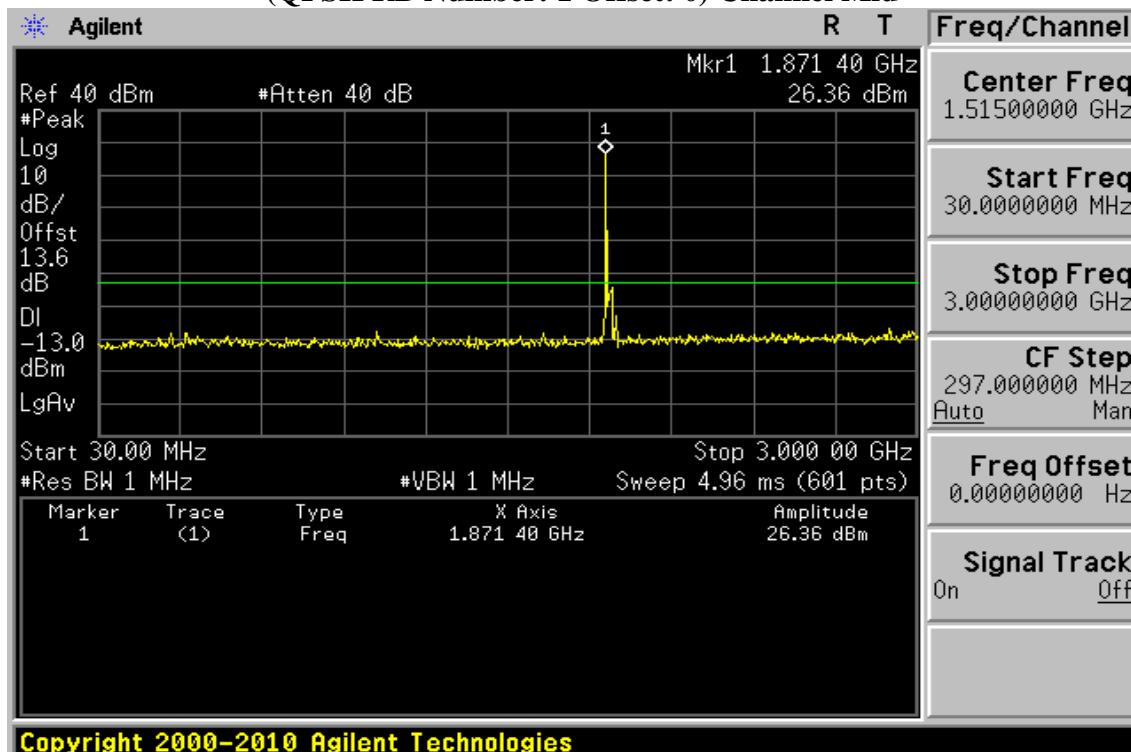


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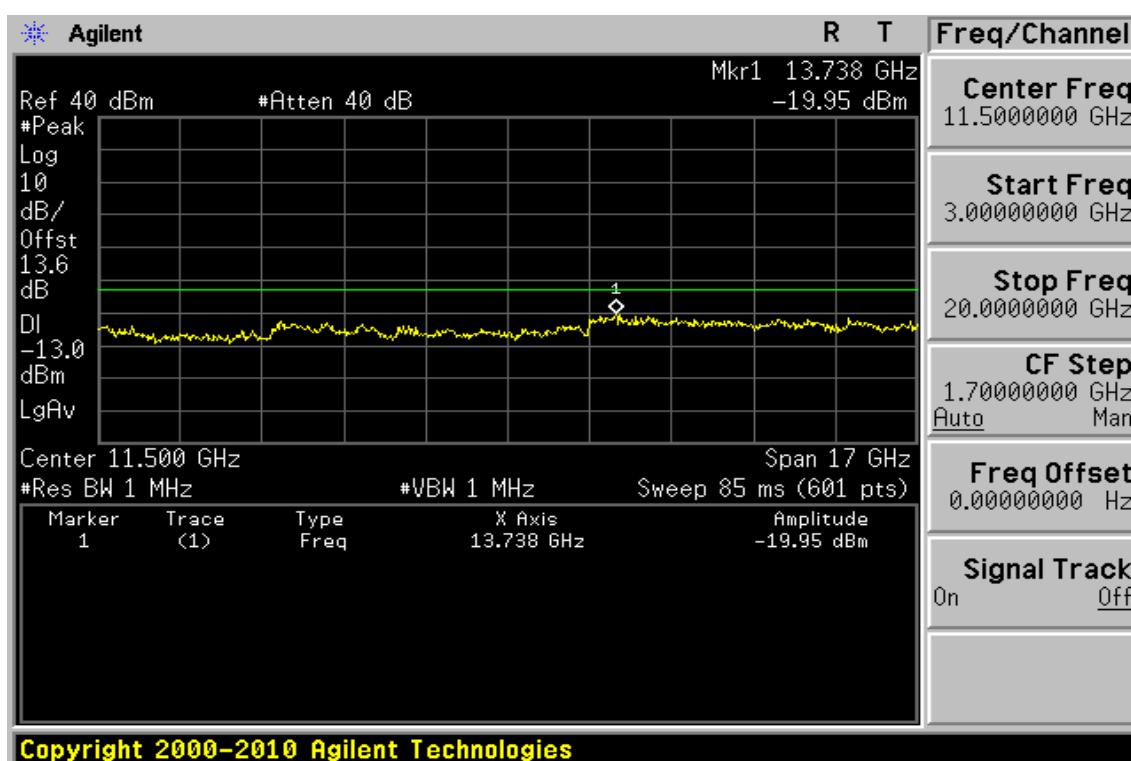
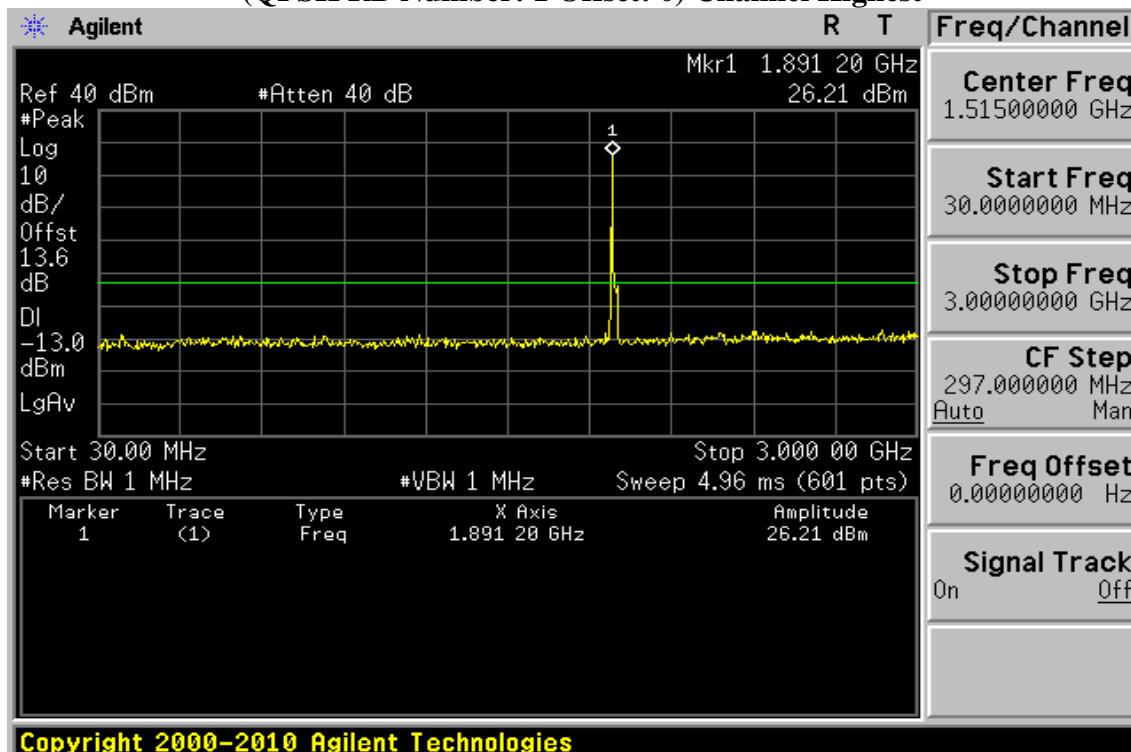
Figure 10-102: Out of Band emission at antenna terminals –20MHz BW LTE-Band 2
(QPSK RB Number: 1 Offset: 0) Channel Mid



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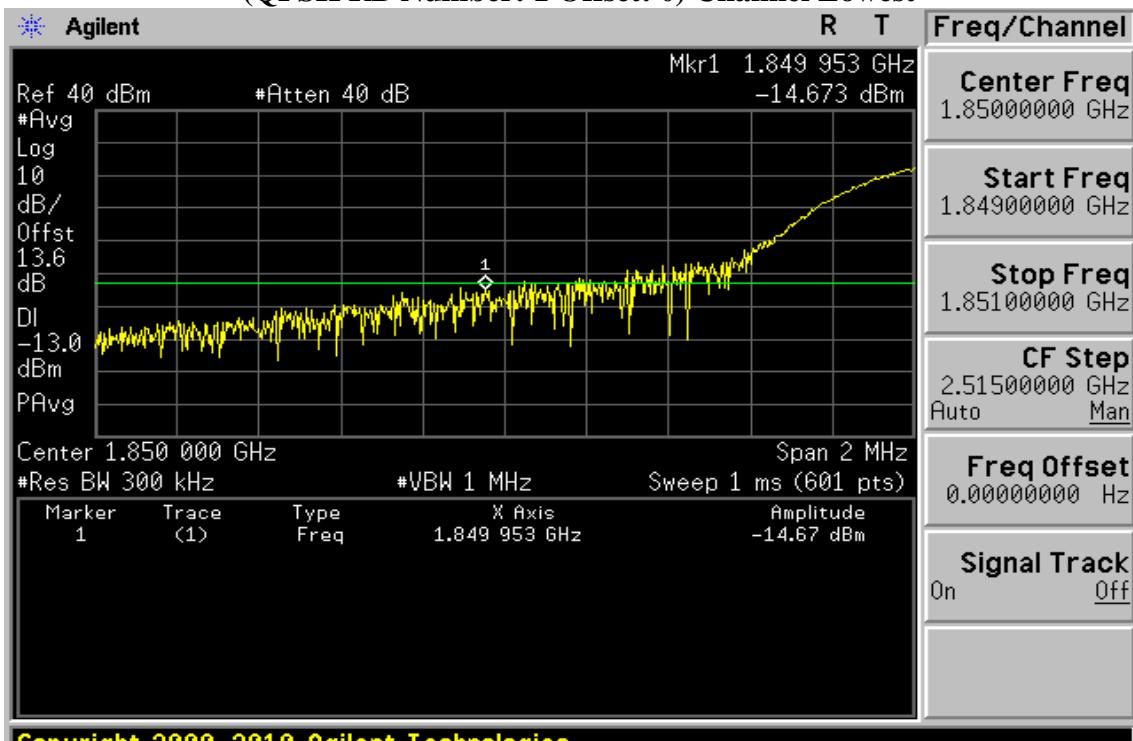
**Figure 10-103: Out of Band emission at antenna terminals–20MHz BW LTE-Band 2
(QPSK RB Number: 1 Offset: 0) Channel Highest**



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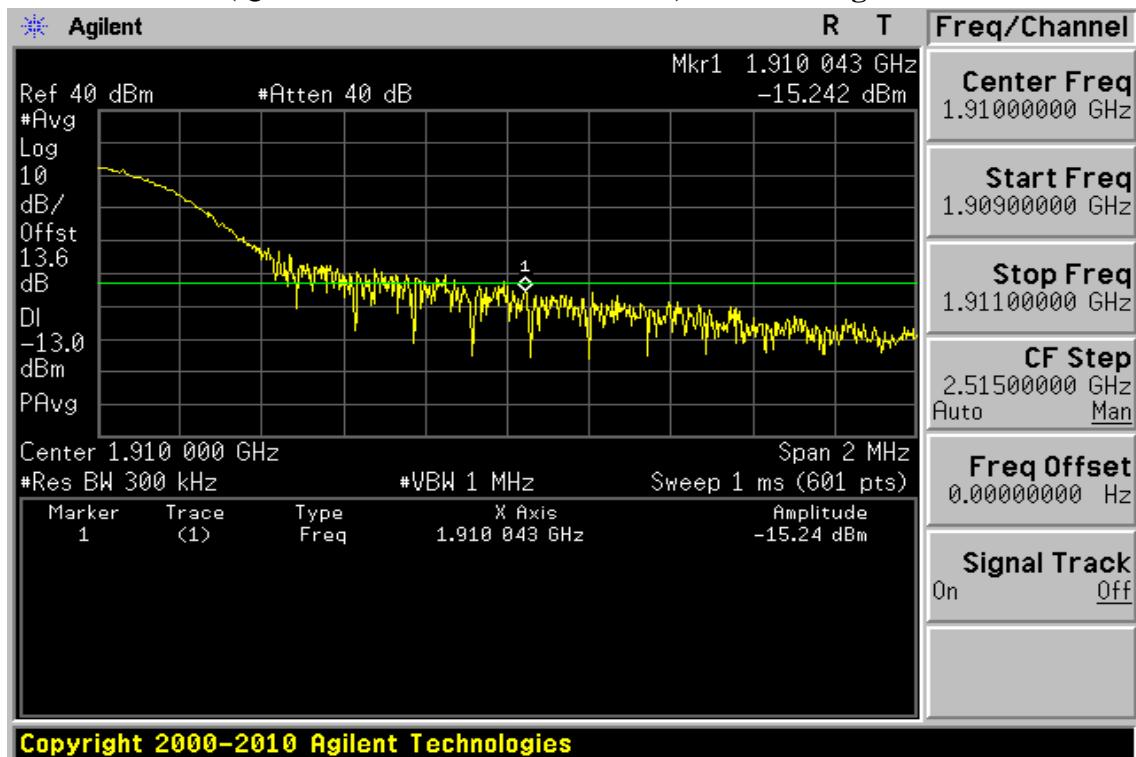
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**Figure 10-104: Band edge emission at antenna terminals –20MHz BW LTE-Band 2
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



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**Figure 10-105: Band edge emission at antenna terminals –20MHz BW LTE-Band 2
(QPSK RB Number: 1 Offset: 99) Channel Highest**



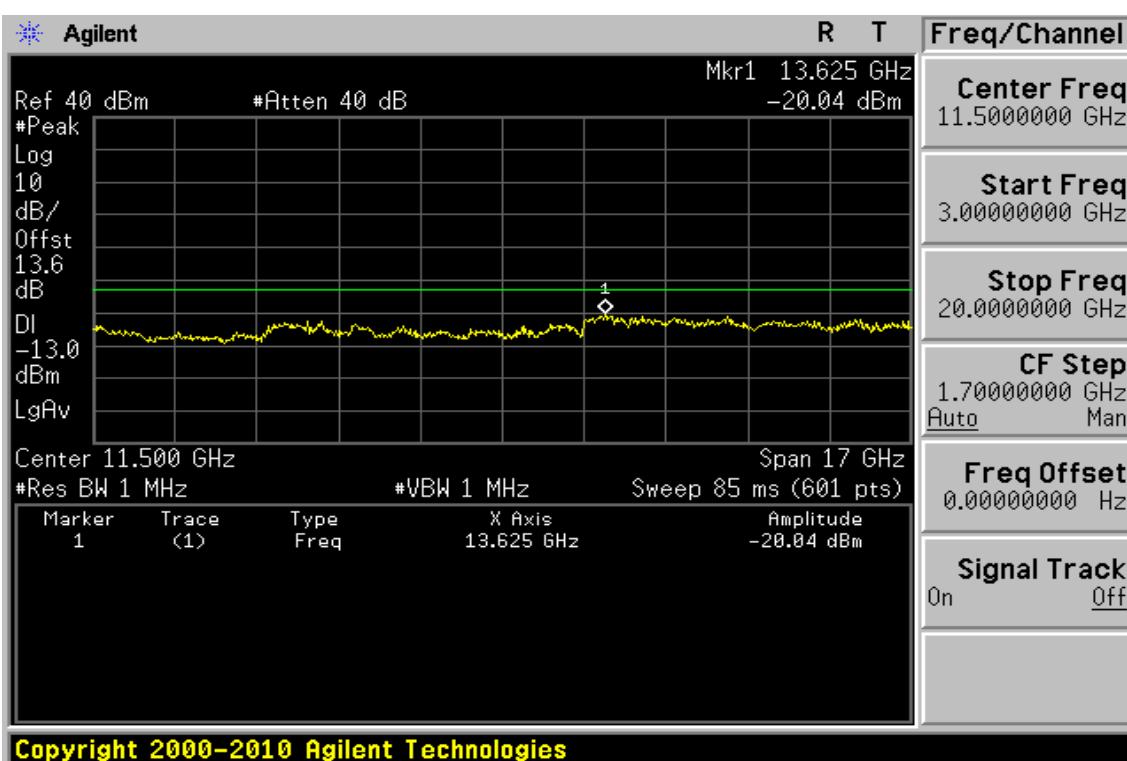
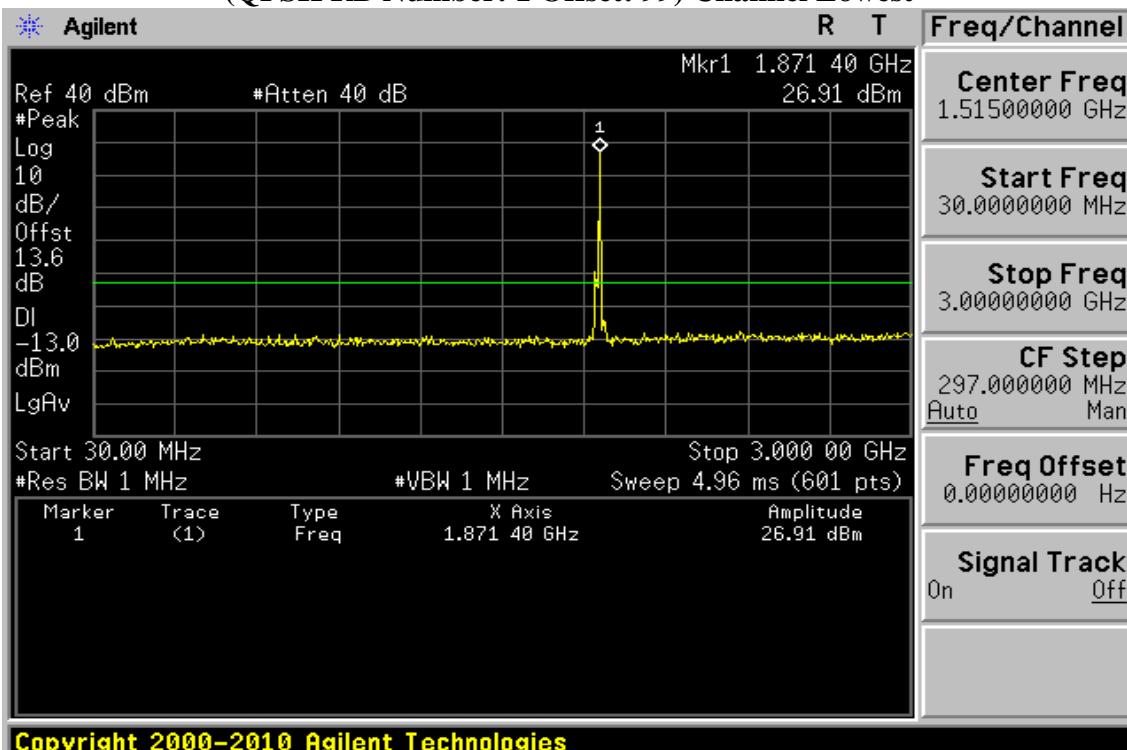
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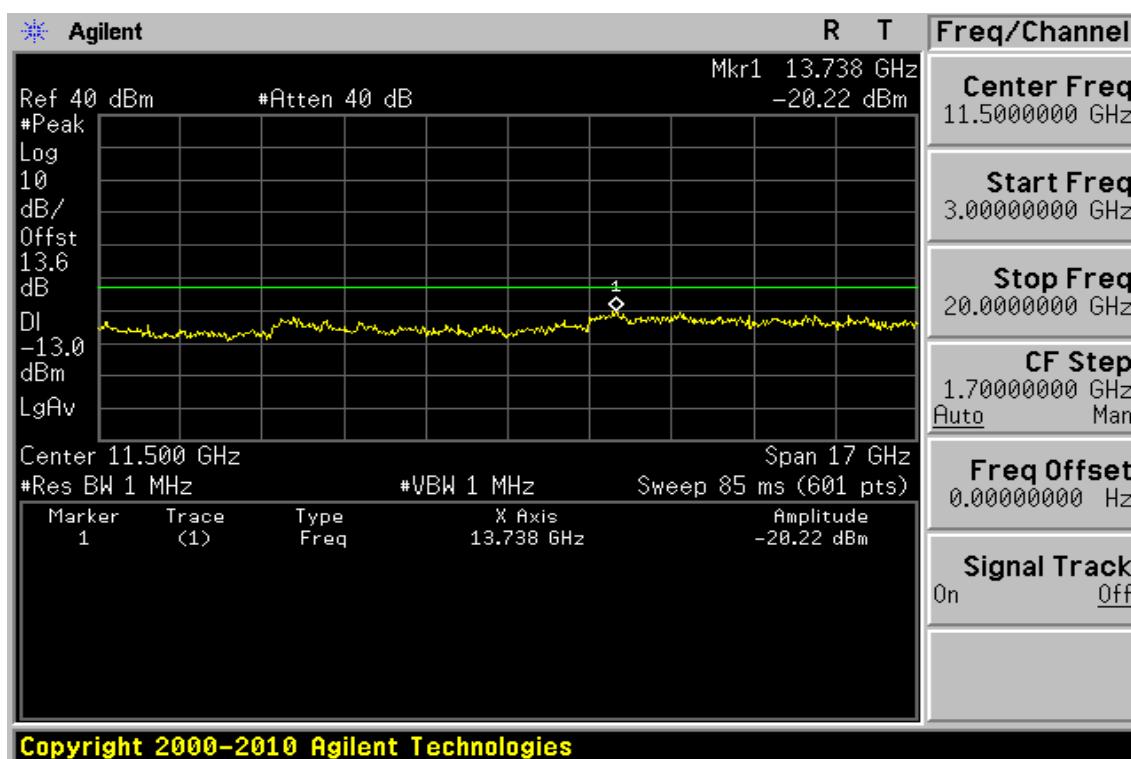
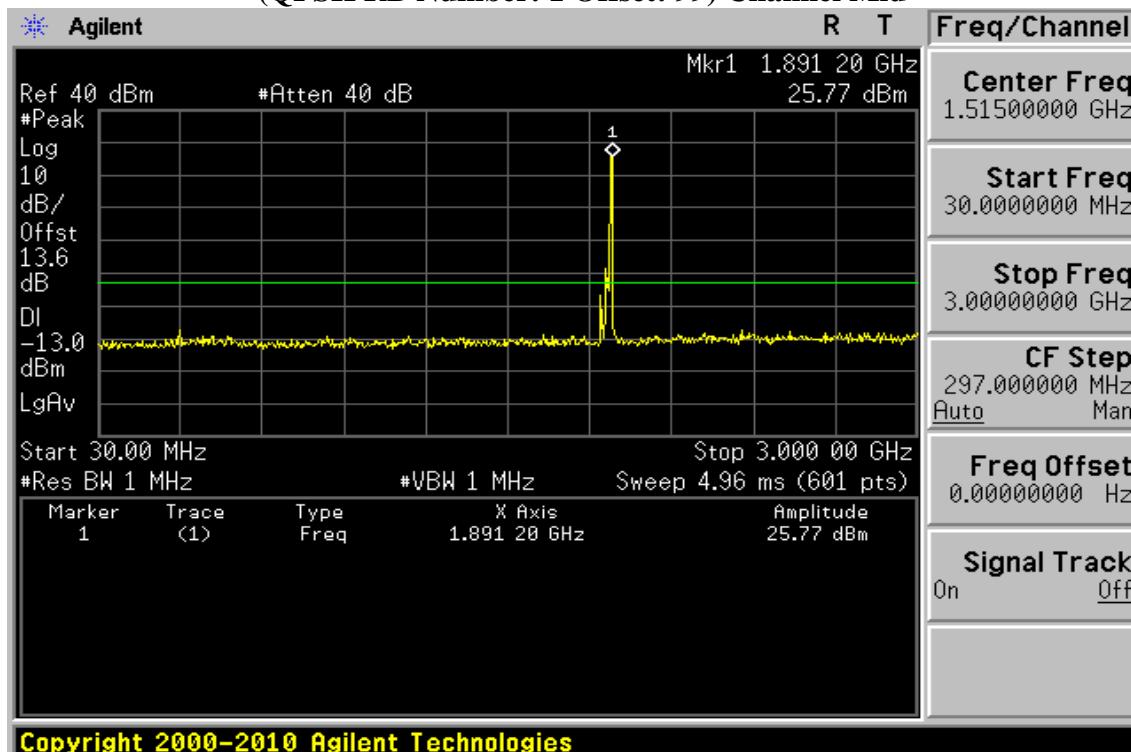
**Figure 10-106: Out of Band emission at antenna terminals–20MHz BW LTE-Band 2
(QPSK RB Number: 1 Offset: 99) Channel Lowest**



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Figure 10-107: Out of Band emission at antenna terminals –20MHz BW LTE-Band 2
(QPSK RB Number: 1 Offset: 99) Channel Mid

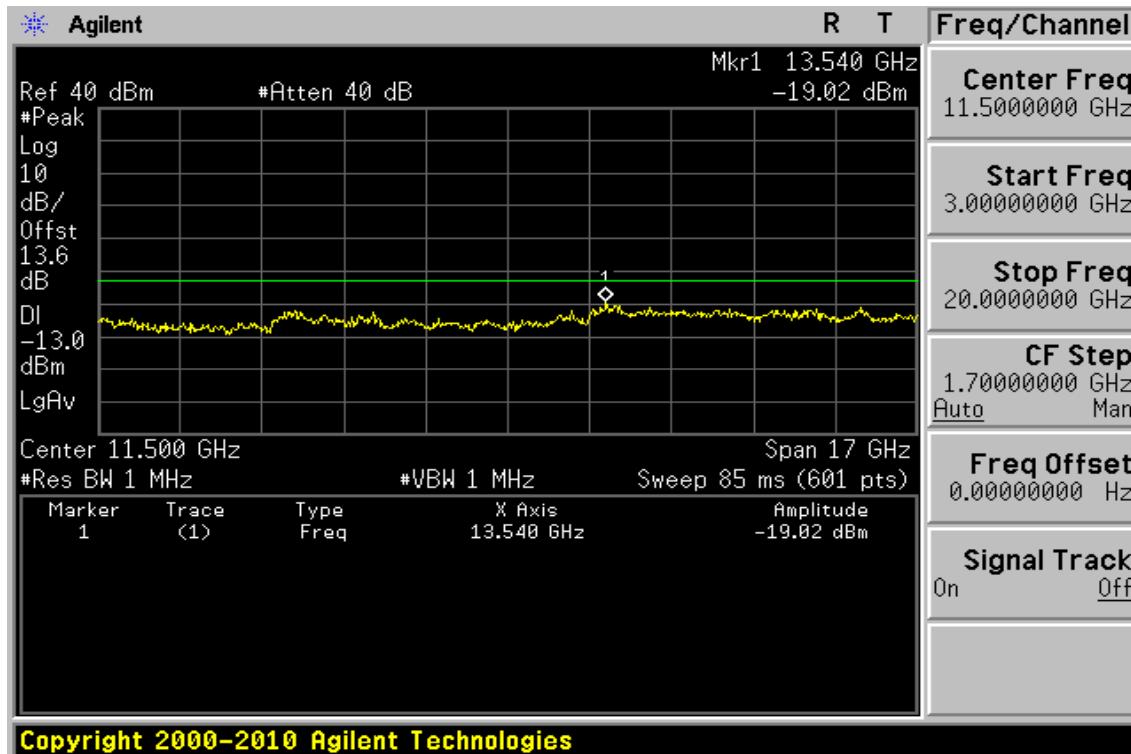
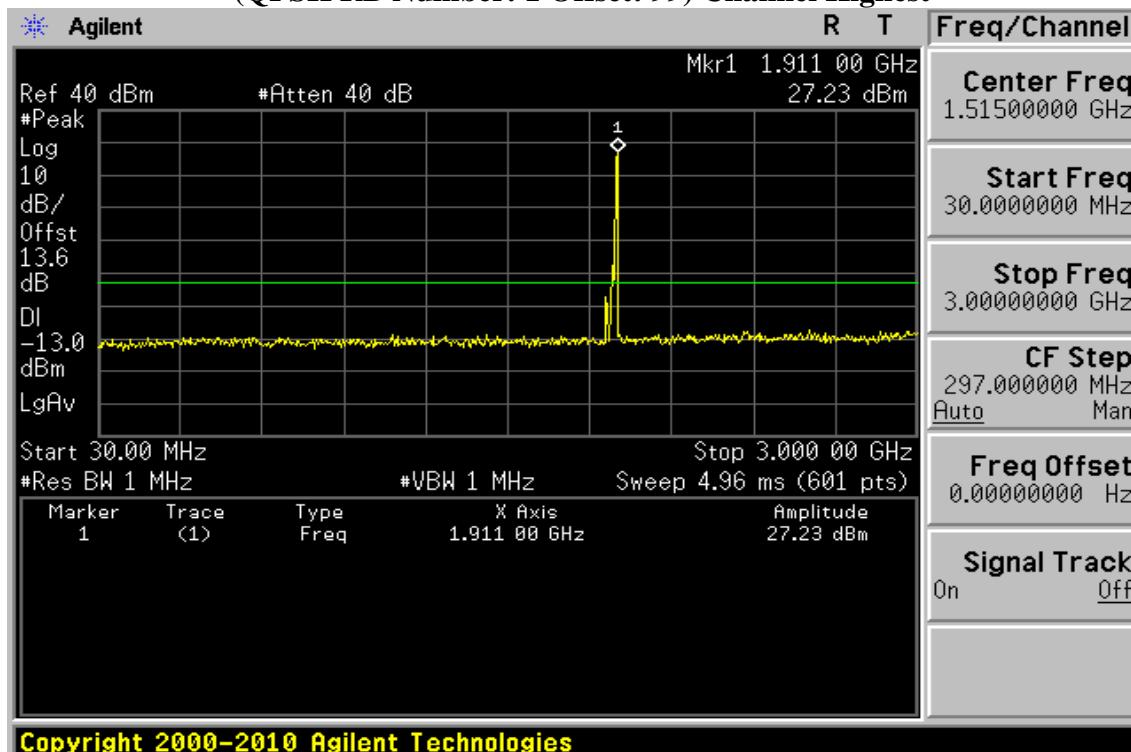


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**Figure 10-108: Out of Band emission at antenna terminals–20MHz BW LTE-Band 2
(QPSK RB Number: 1 Offset: 99) Channel Highest**

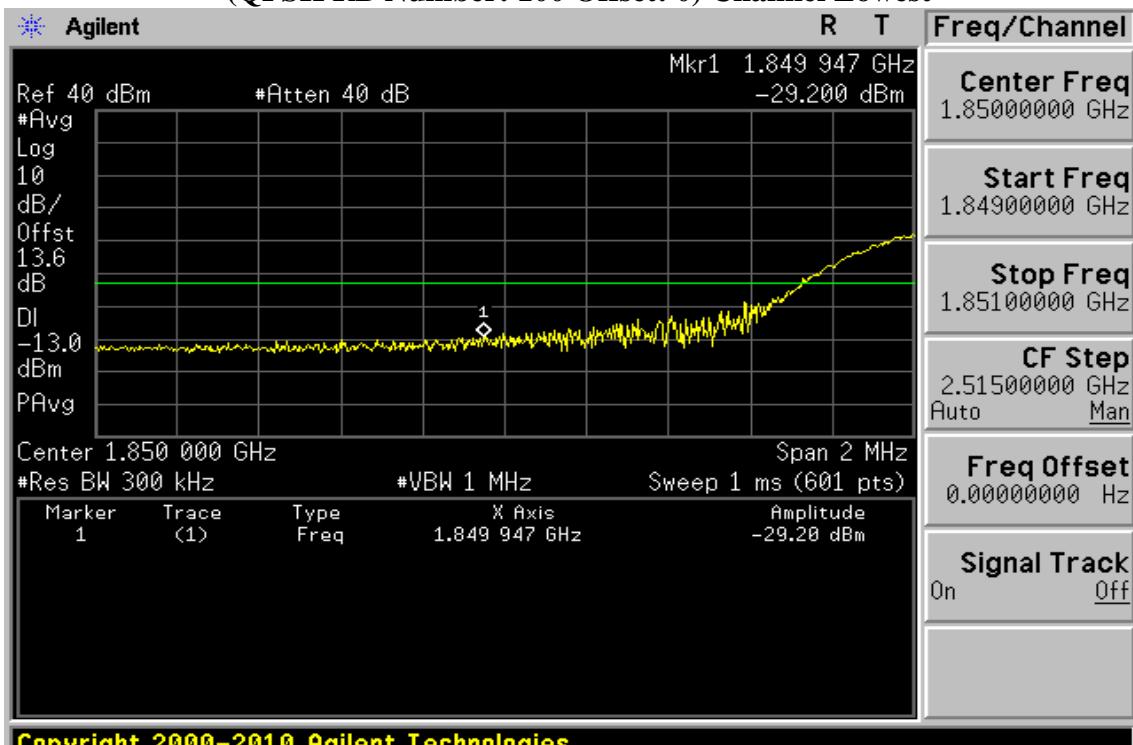


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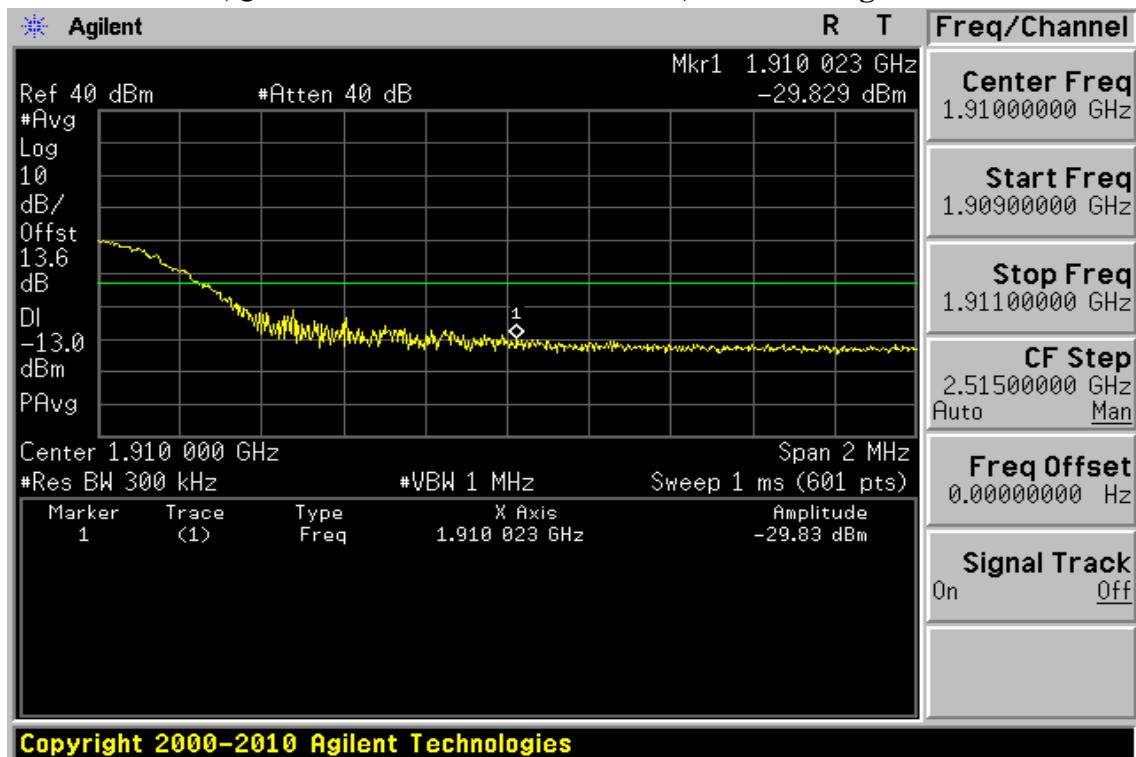
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**Figure 10-109: Band edge emission at antenna terminals –20MHz BW LTE-Band 2
(QPSK RB Number: 100 Offset: 0) Channel Lowest**



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**Figure 10-110: Band edge emission at antenna terminals –20MHz BW LTE-Band 2
(QPSK RB Number: 100 Offset: 0) Channel Highest**



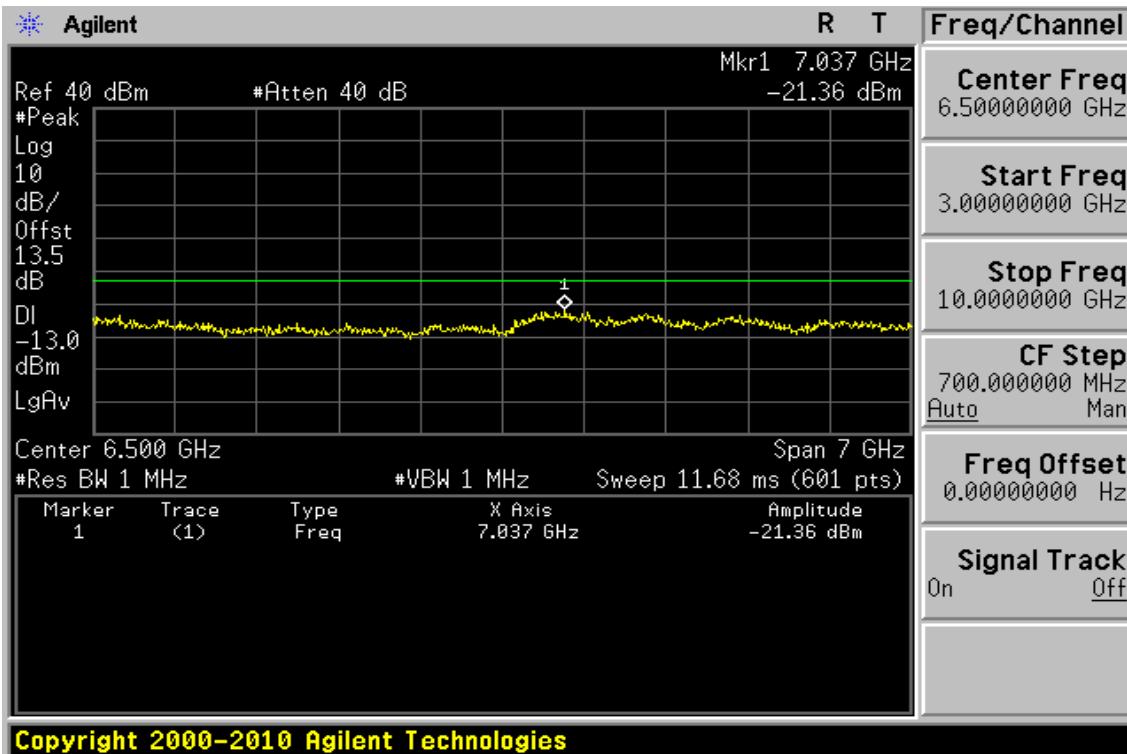
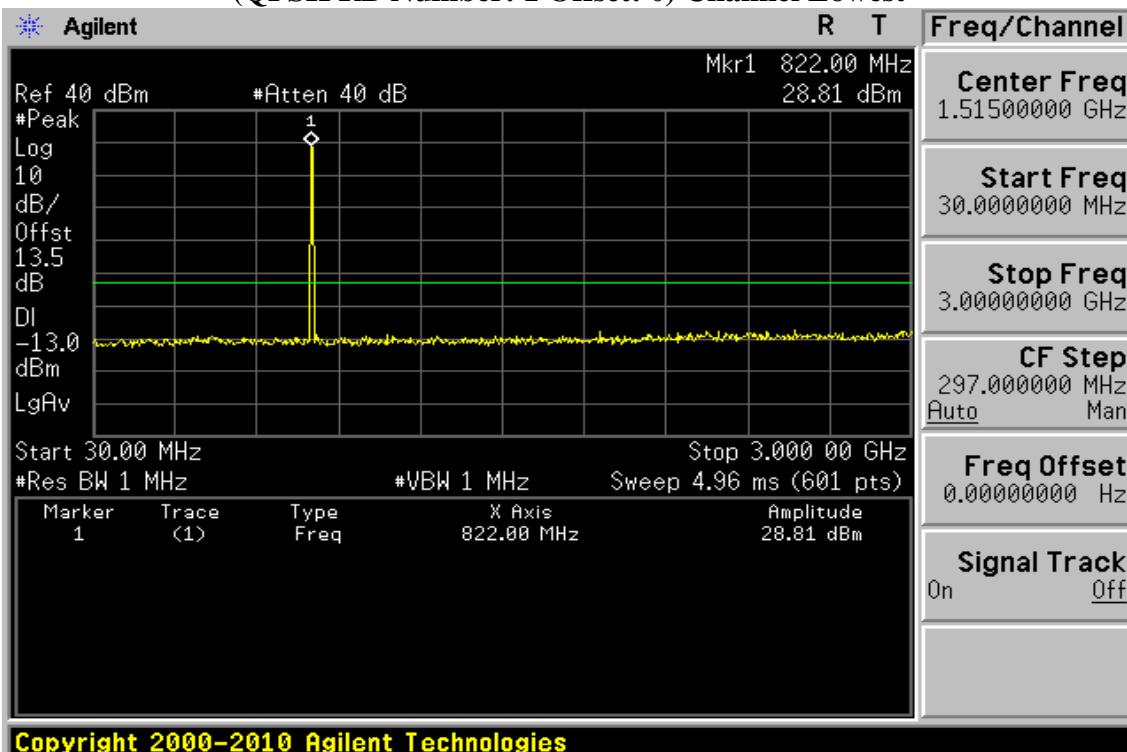
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Figure 10-111: Out of Band emission at antenna terminals—1.4MHz BW LTE-Band 5
(QPSK RB Number: 1 Offset: 0) Channel Lowest

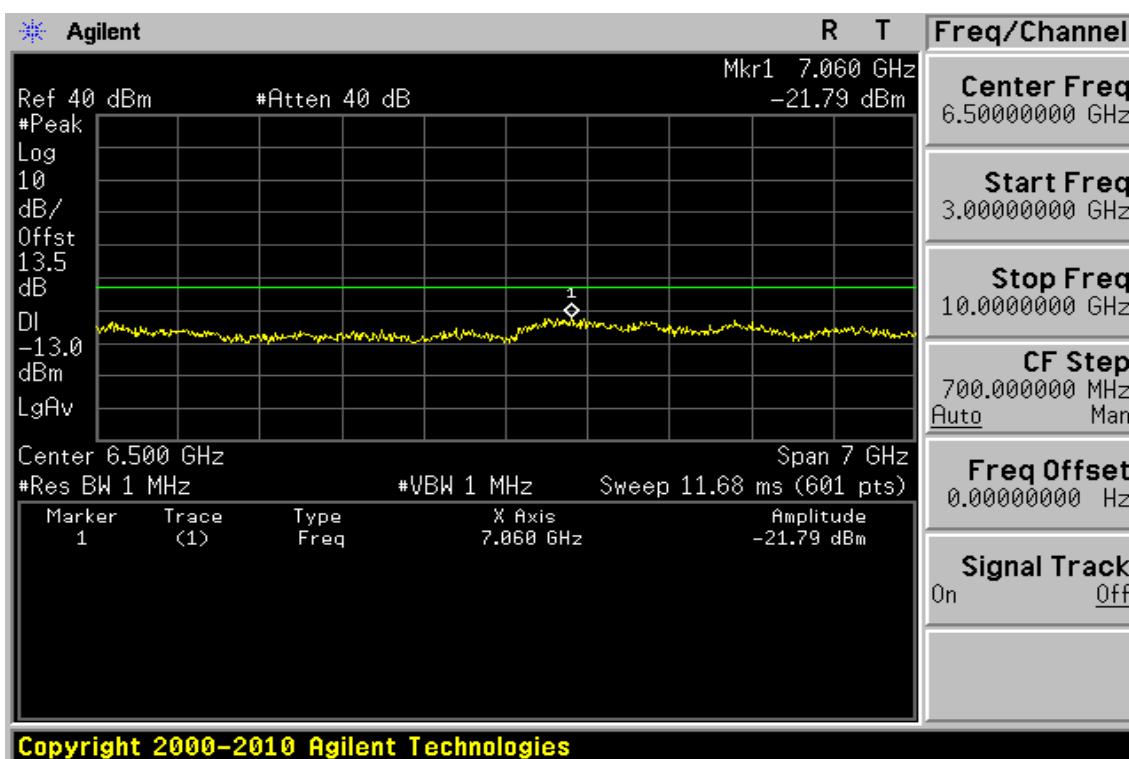
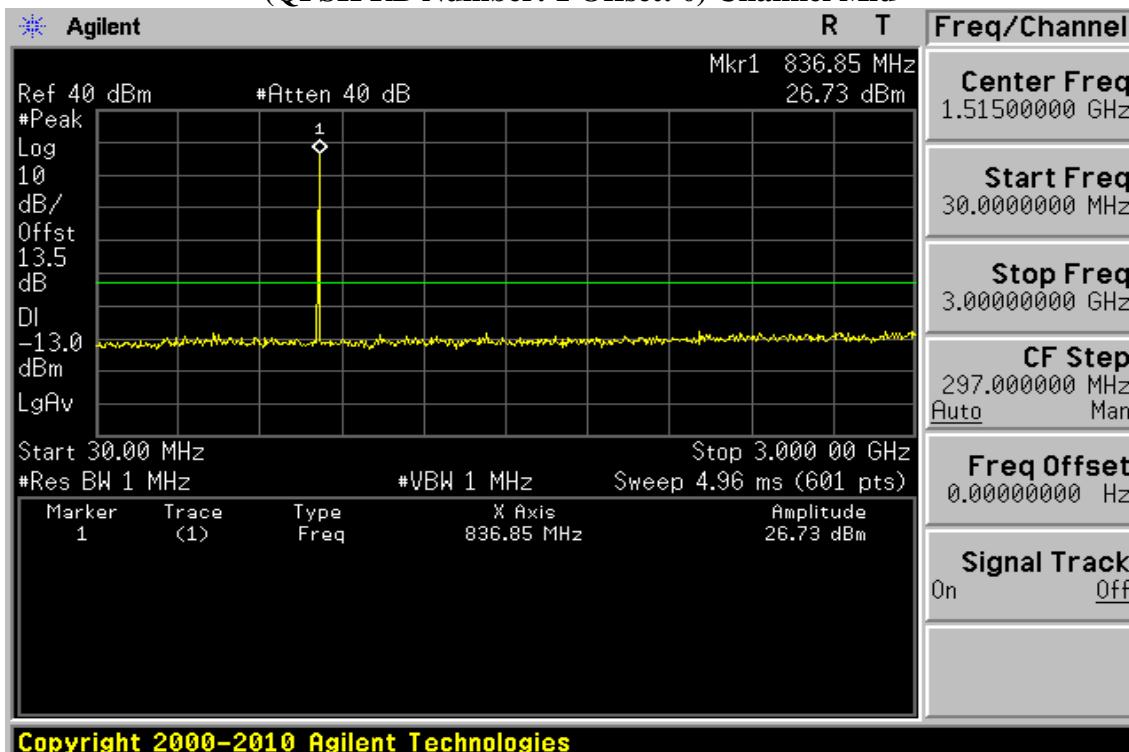


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**Figure 10-112: Out of Band emission at antenna terminals –1.4MHz BW LTE-Band 5
(QPSK RB Number: 1 Offset: 0) Channel Mid**

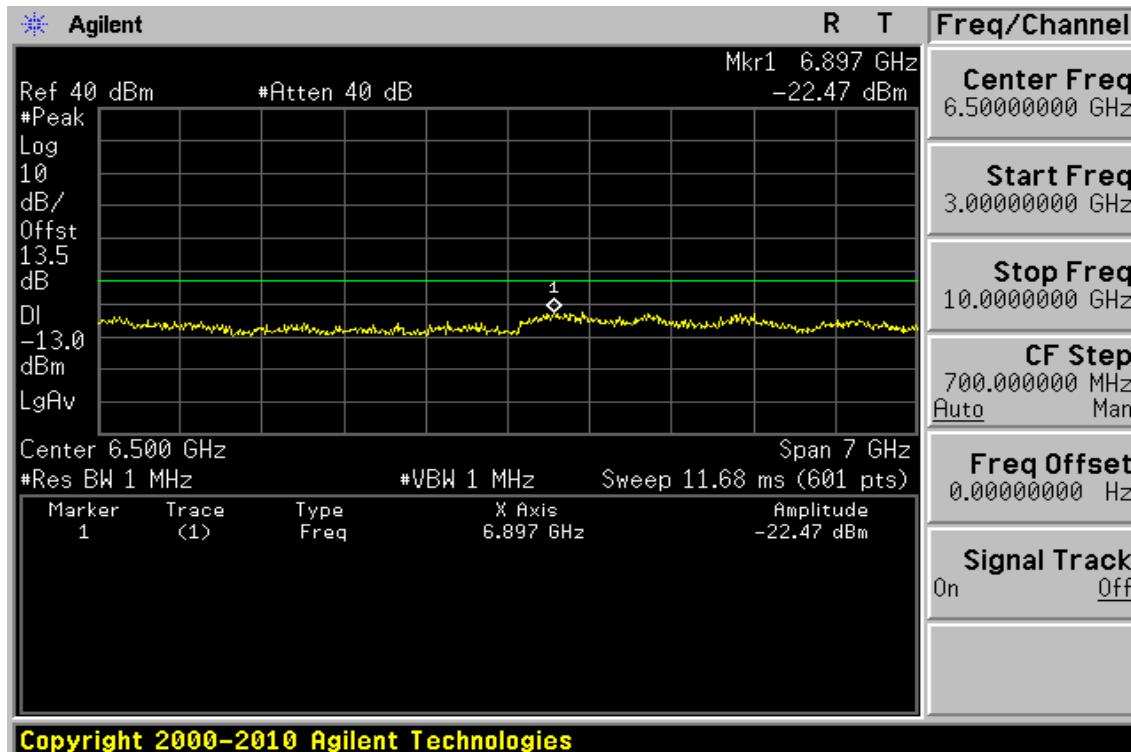
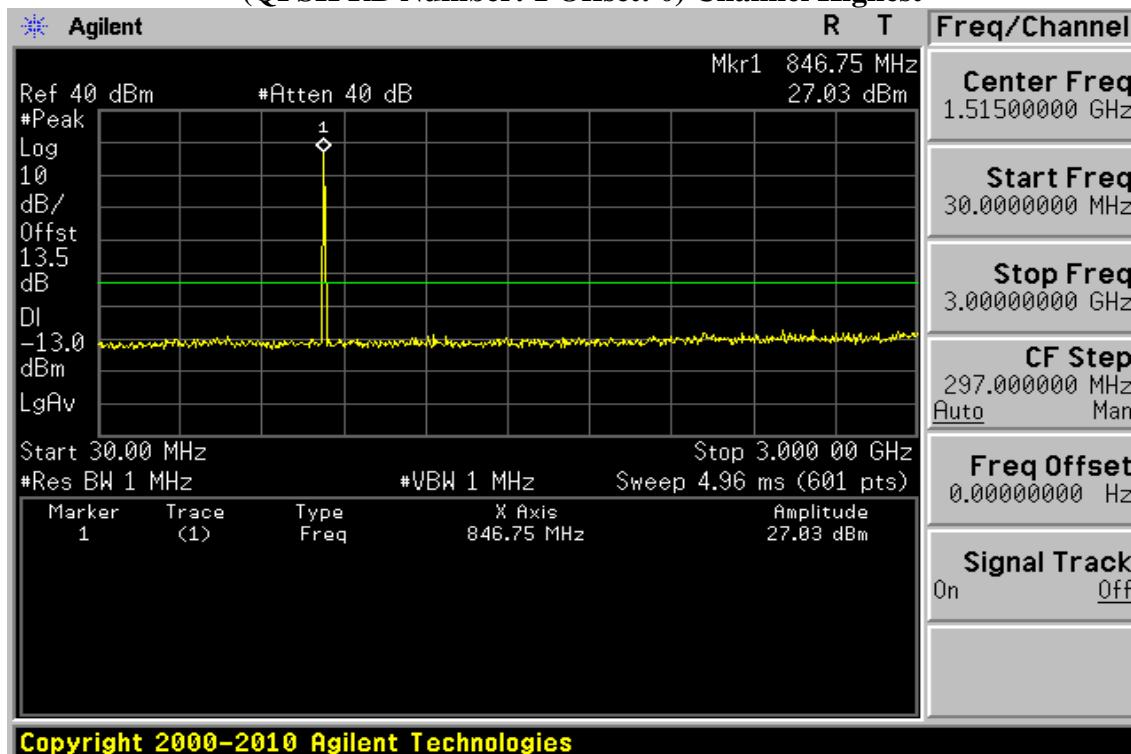


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Figure 10-113: Out of Band emission at antenna terminals—1.4MHz BW LTE-Band 5
(QPSK RB Number: 1 Offset: 0) Channel Highest

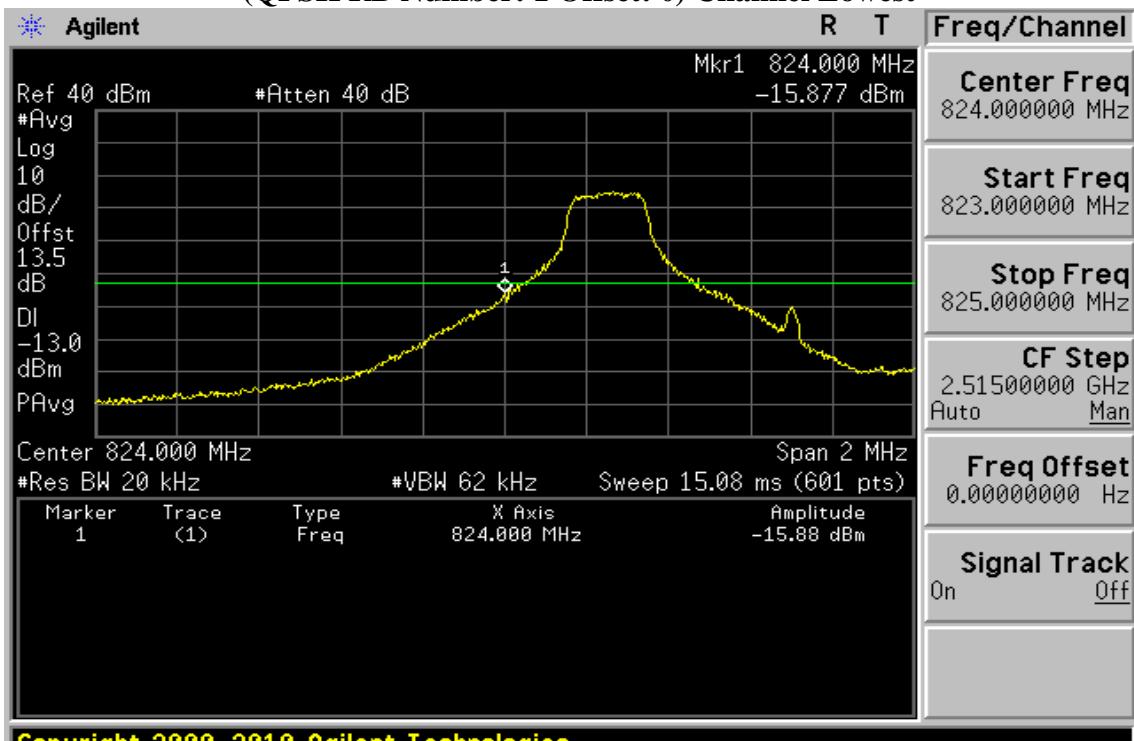


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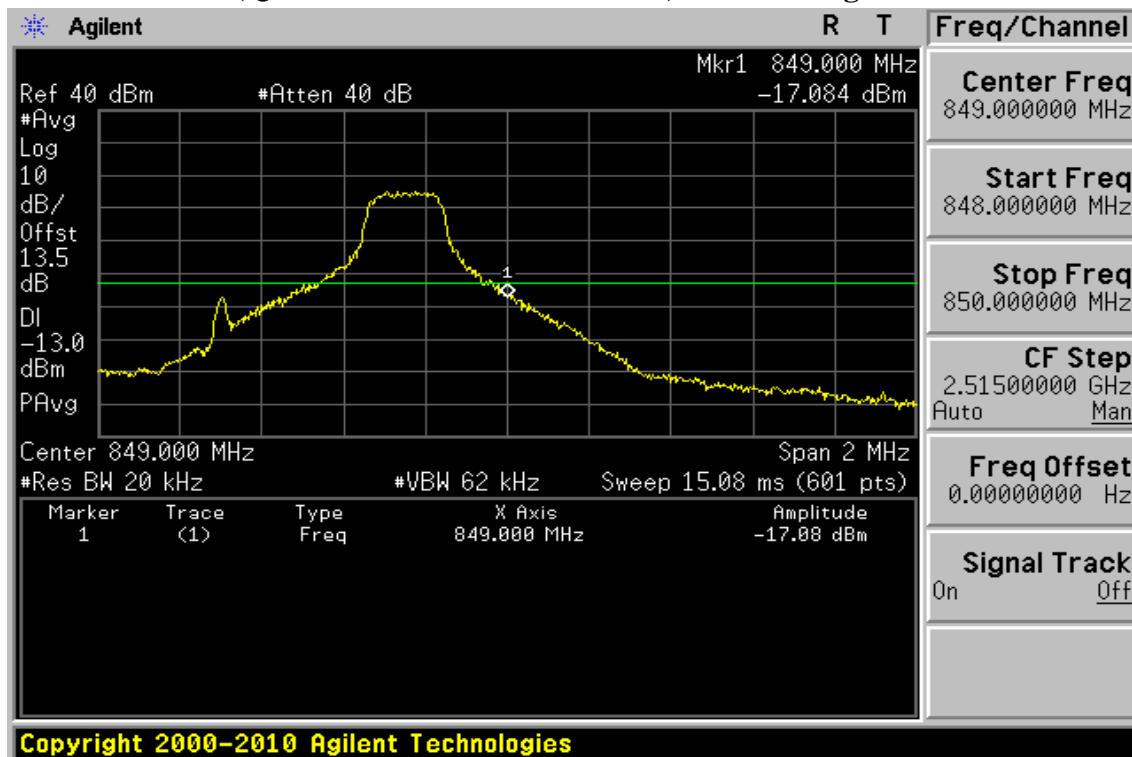
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**Figure 10-114: Band edge emission at antenna terminals –1.4MHz BW LTE-Band 5
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



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**Figure 10-115: Band edge emission at antenna terminals –1.4MHz BW LTE-Band 5
(QPSK RB Number: 1 Offset: 5) Channel Highest**



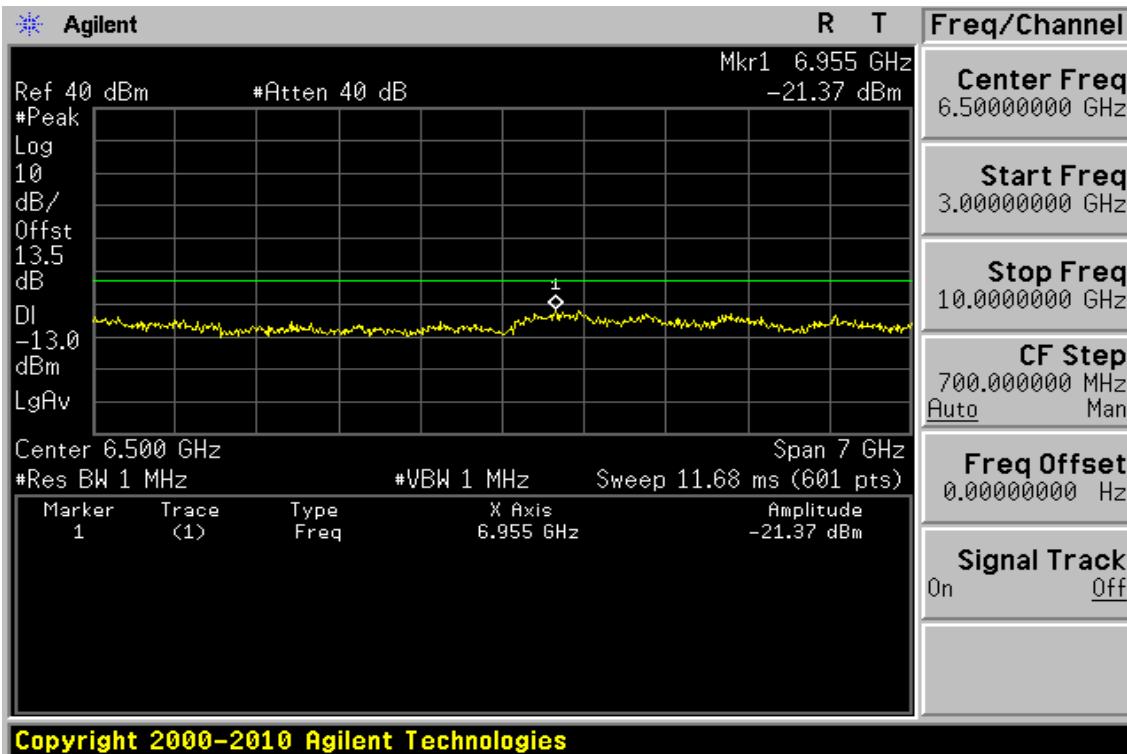
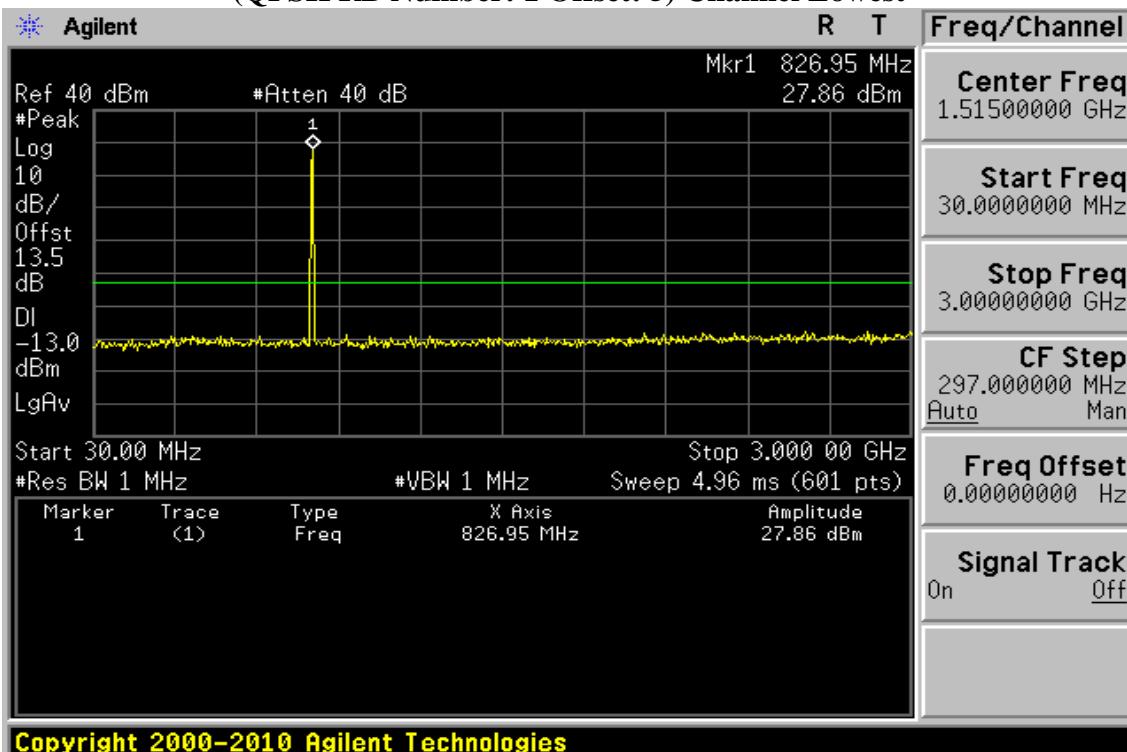
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Figure 10-116: Out of Band emission at antenna terminals—1.4MHz BW LTE-Band 5
(QPSK RB Number: 1 Offset: 5) Channel Lowest

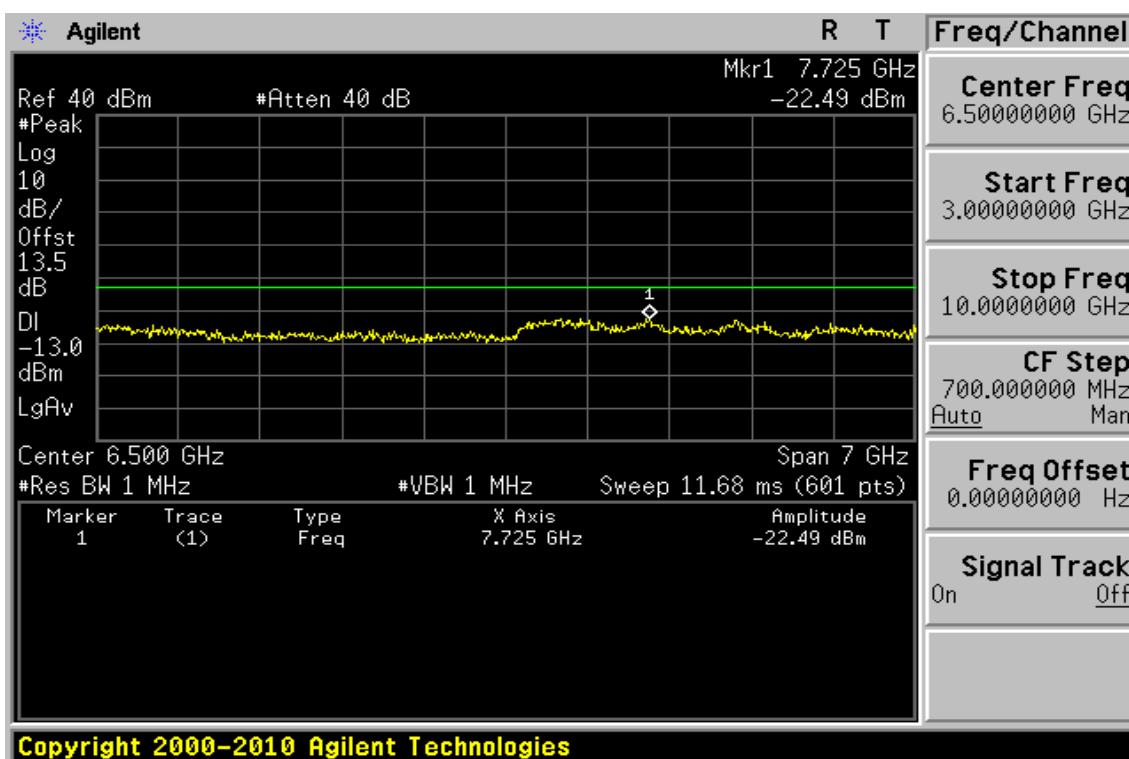
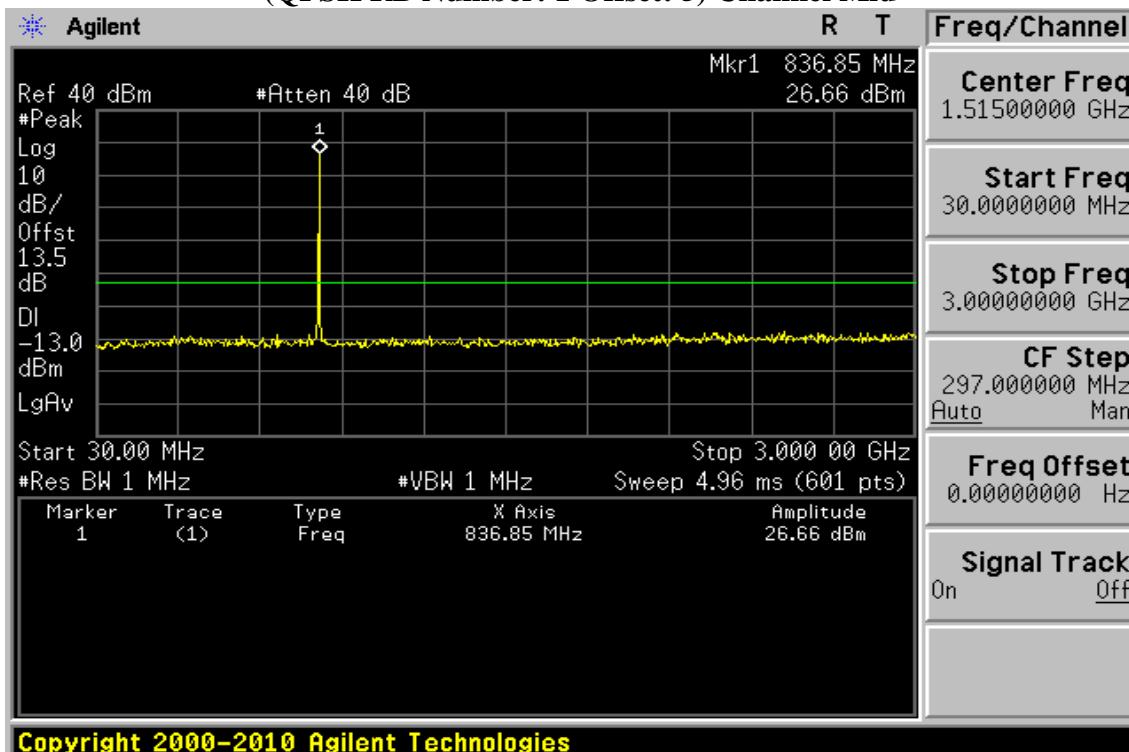


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**Figure 10-117: Out of Band emission at antenna terminals –1.4MHz BW LTE-Band 5
(QPSK RB Number: 1 Offset: 5) Channel Mid**

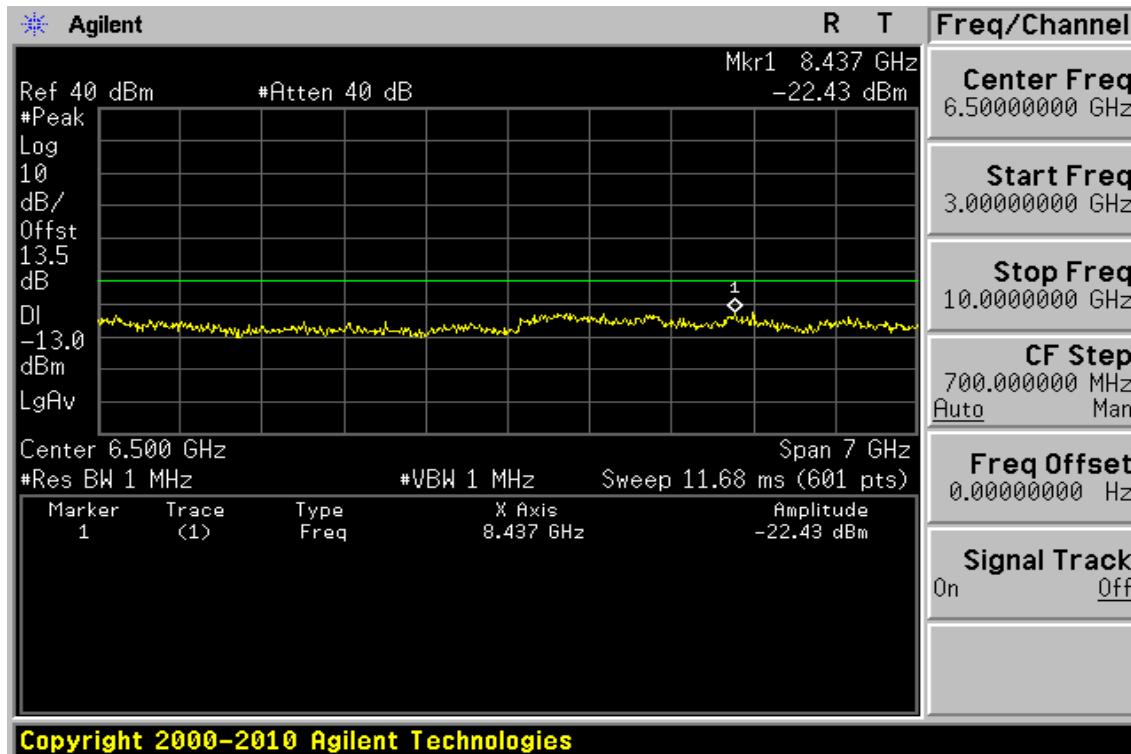
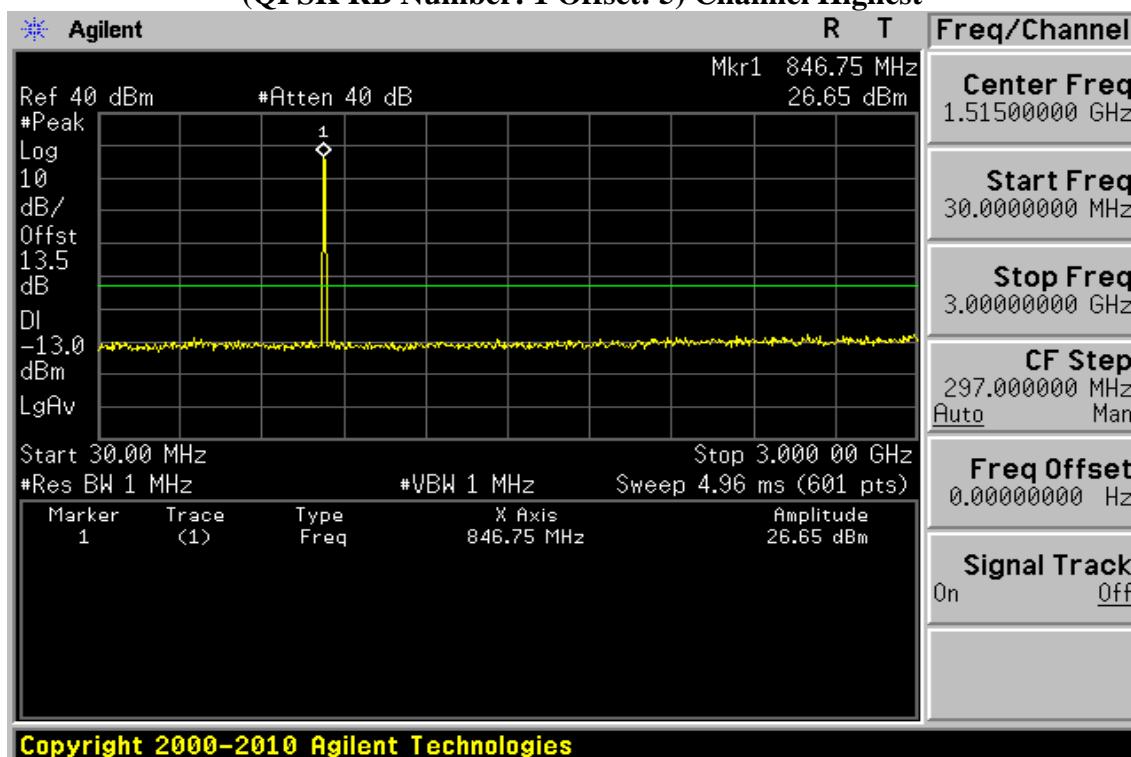


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Figure 10-118: Out of Band emission at antenna terminals—1.4MHz BW LTE-Band 5
(QPSK RB Number: 1 Offset: 5) Channel Highest

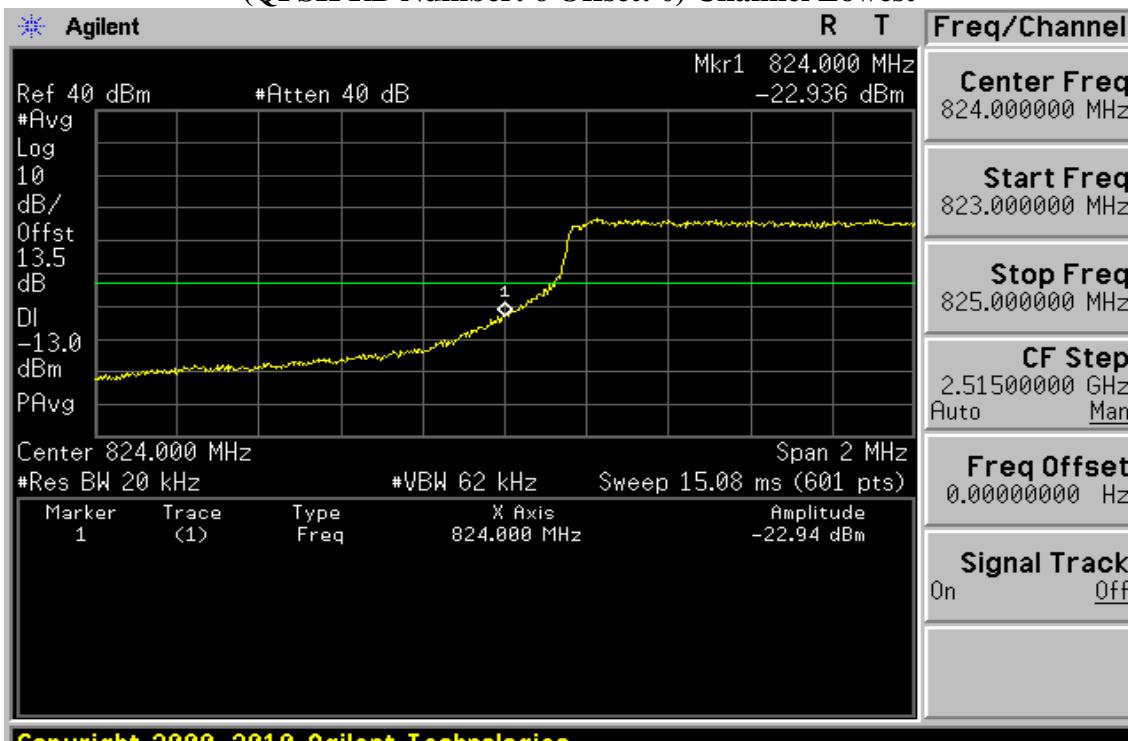


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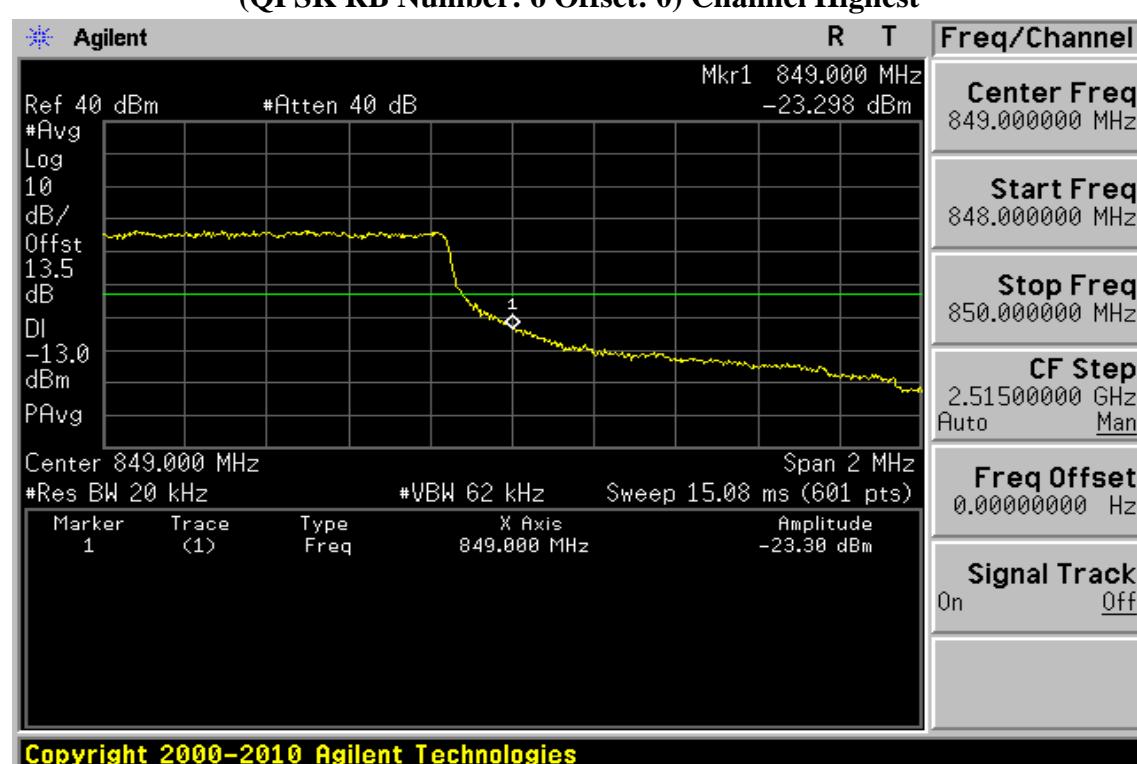
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**Figure 10-119: Band edge emission at antenna terminals –1.4MHz BW LTE-Band 5
(QPSK RB Number: 6 Offset: 0) Channel Lowest**



**Figure 10-120: Band edge emission at antenna terminals –1.4MHz BW LTE-Band 5
(QPSK RB Number: 6 Offset: 0) Channel Highest**

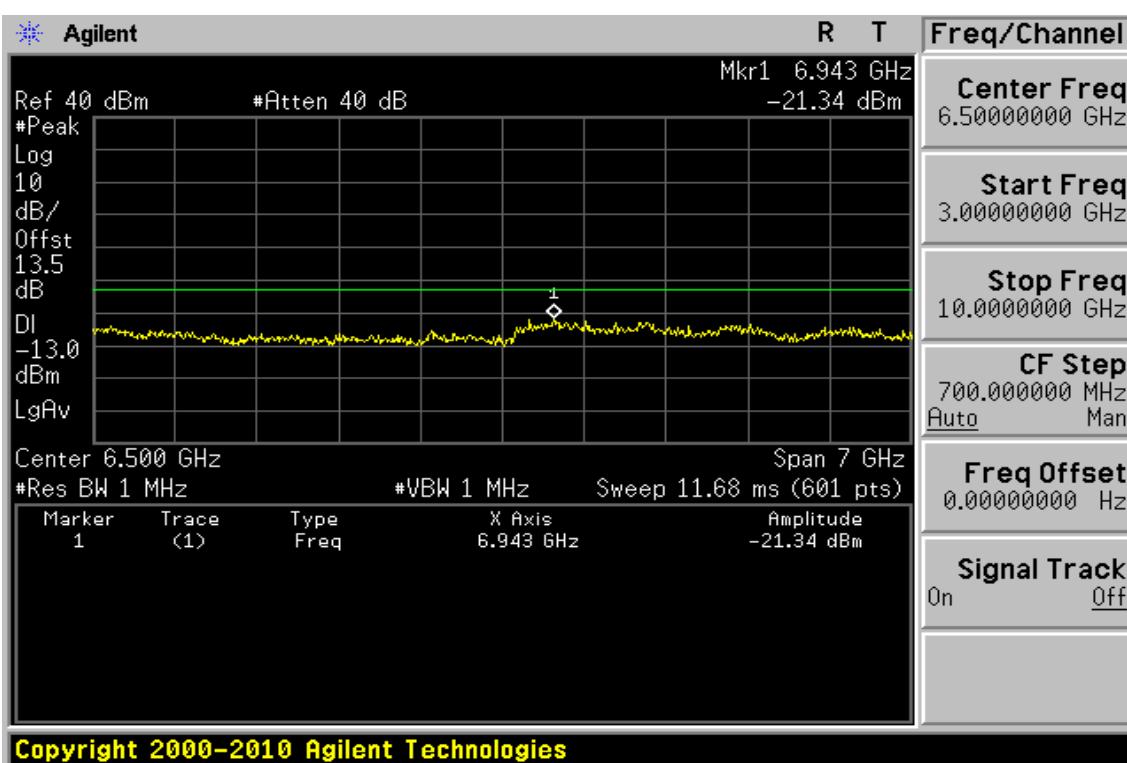
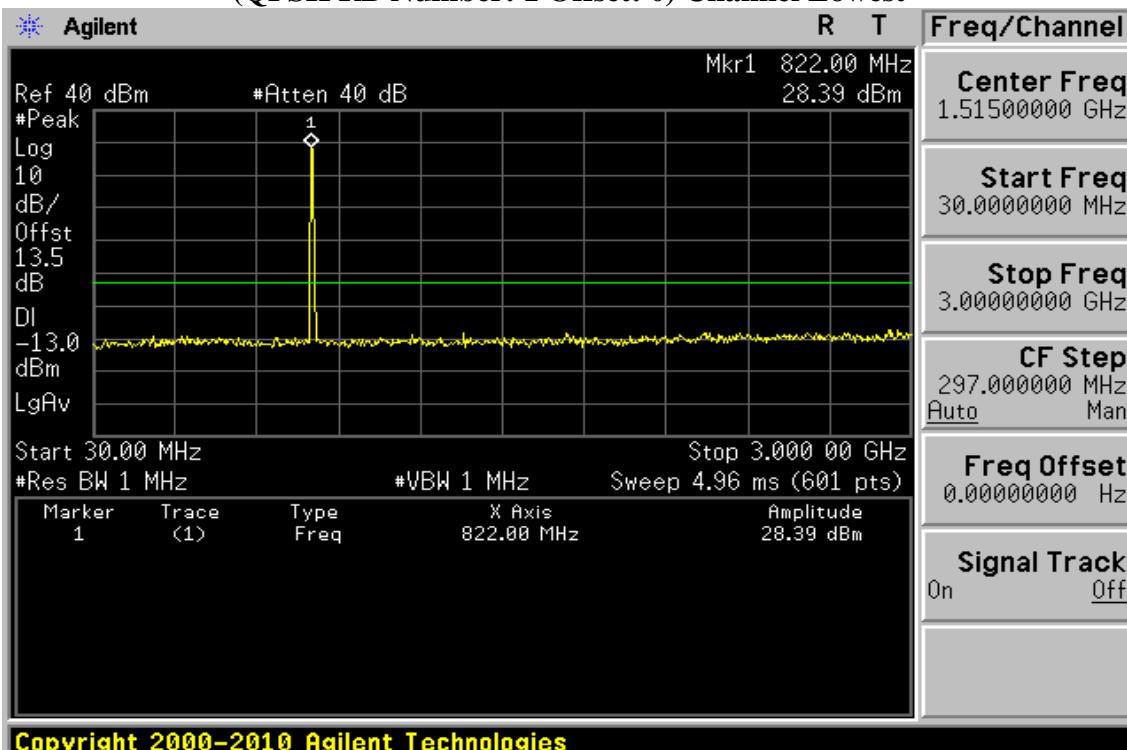


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**Figure 10-121: Out of Band emission at antenna terminals—3MHz BW LTE-Band 5
(QPSK RB Number: 1 Offset: 0) Channel Lowest**

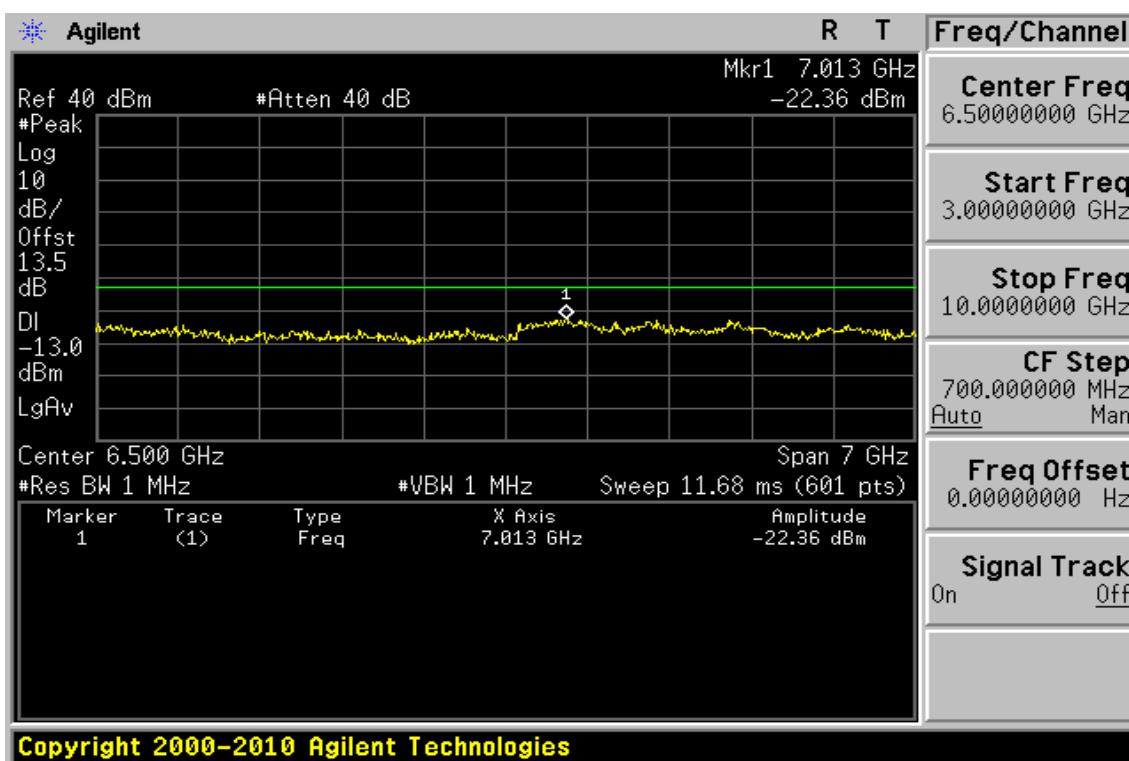
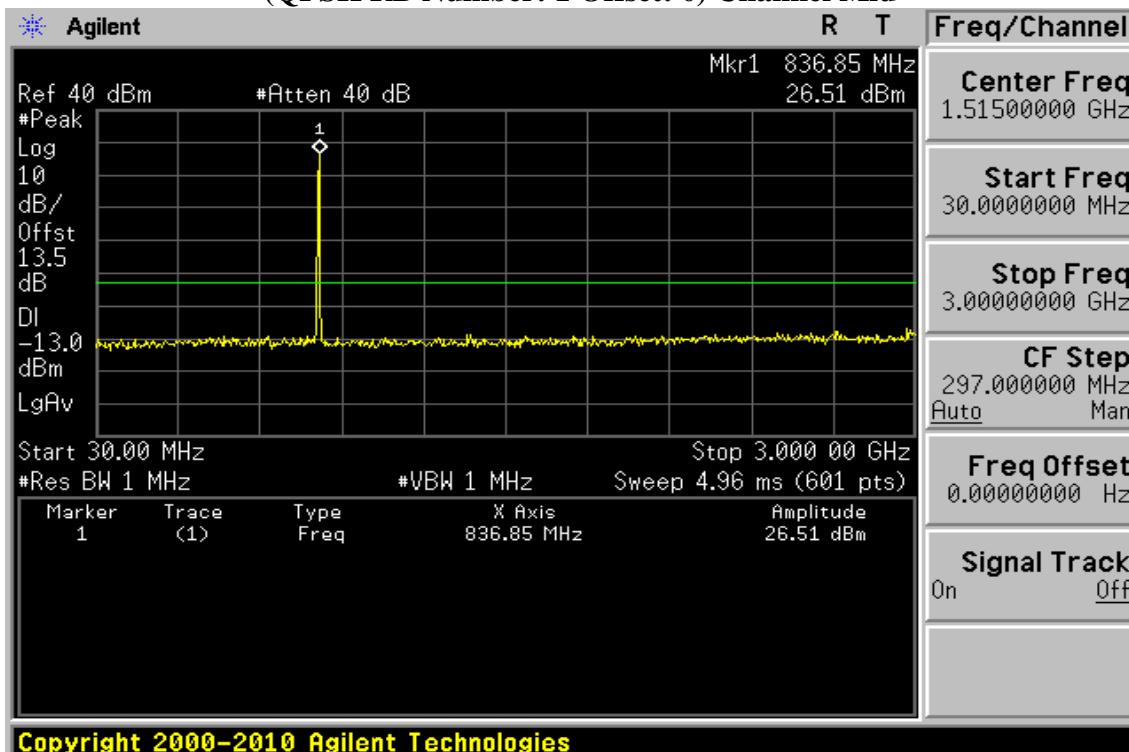


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**Figure 10-122: Out of Band emission at antenna terminals –3MHz BW LTE-Band 5
(QPSK RB Number: 1 Offset: 0) Channel Mid**

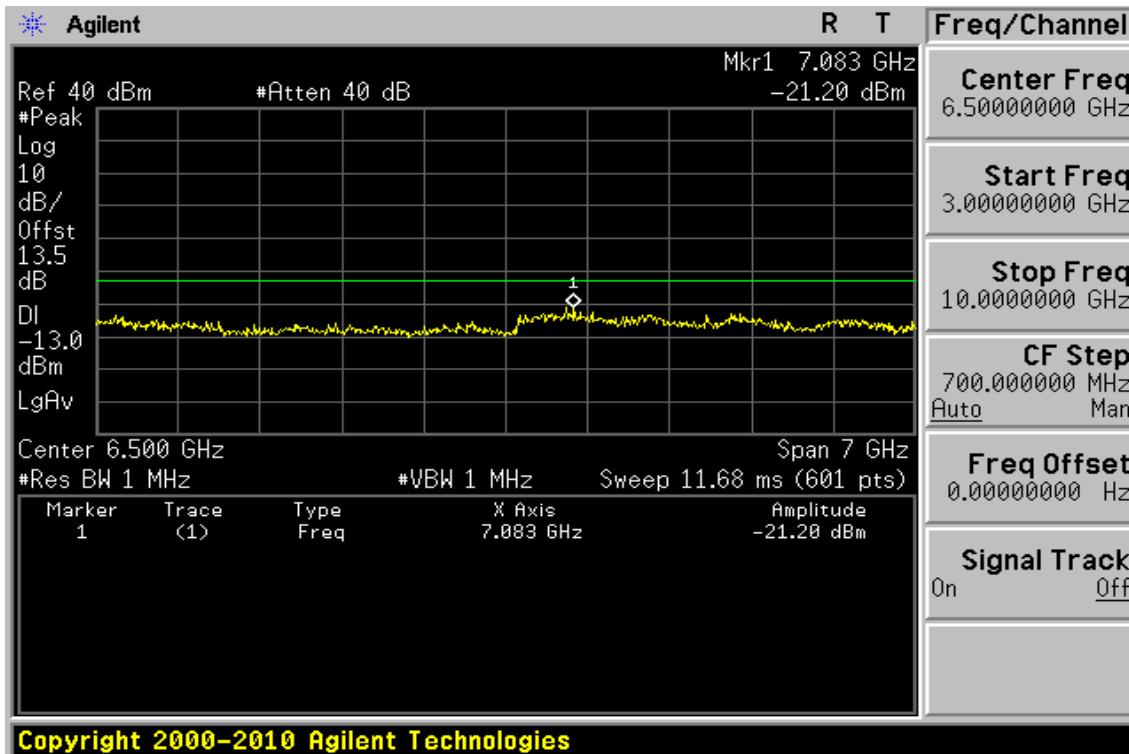
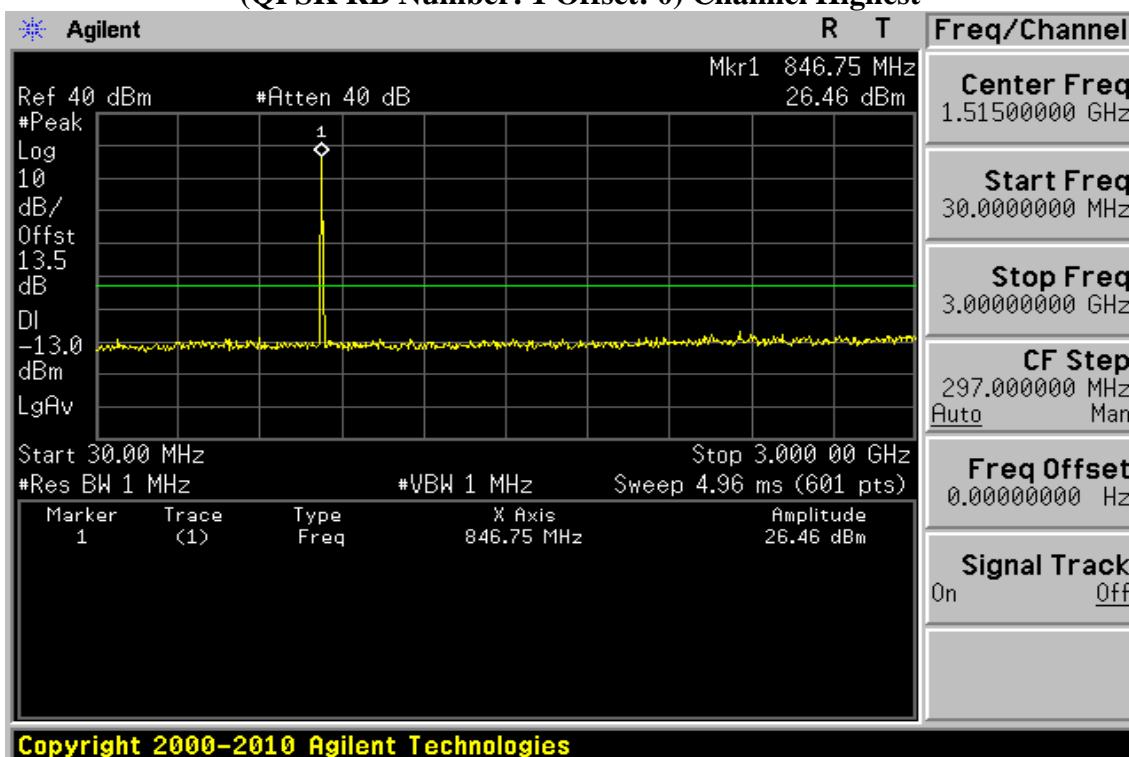


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**Figure 10-123: Out of Band emission at antenna terminals–3MHz BW LTE-Band 5
(QPSK RB Number: 1 Offset: 0) Channel Highest**

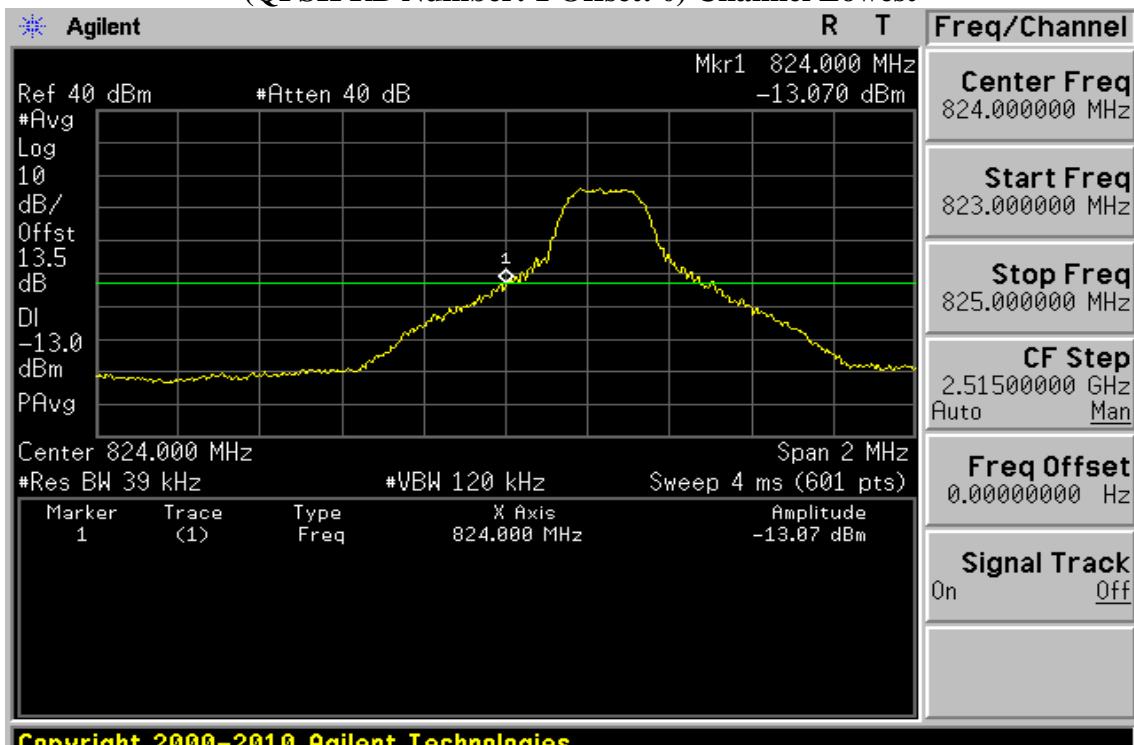


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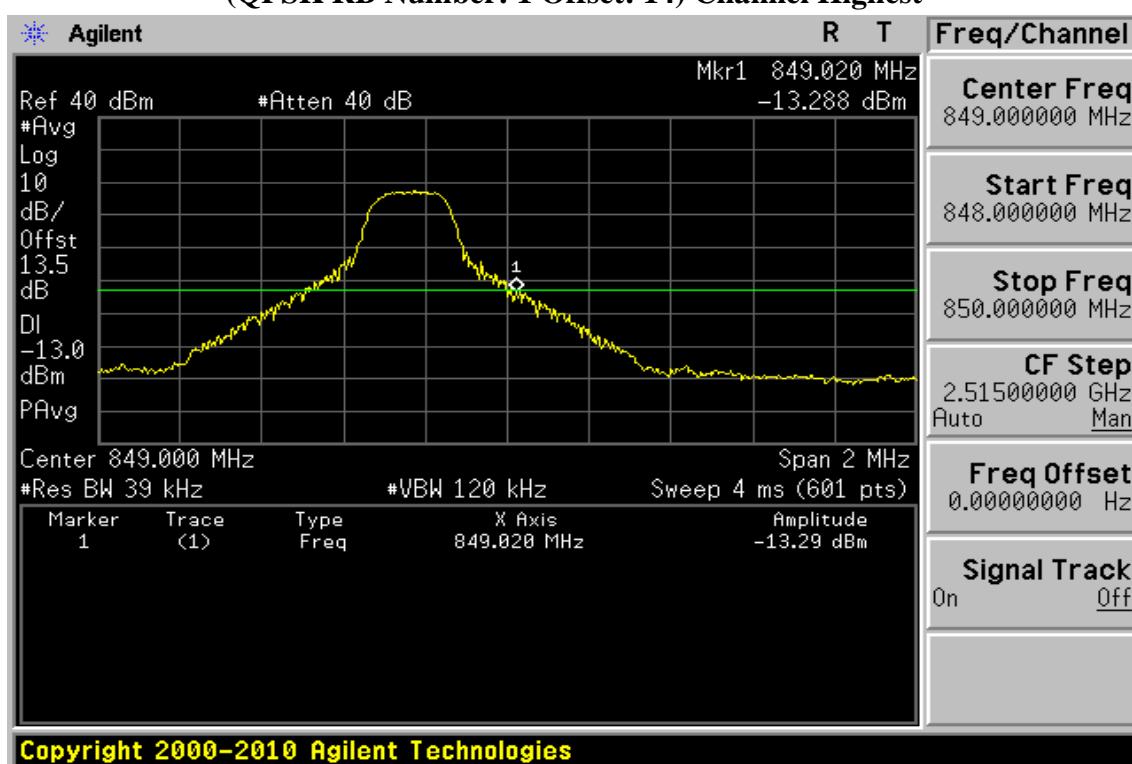
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**Figure 10-124: Band edge emission at antenna terminals –3MHz BW LTE-Band 5
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Figure 10-125: Band edge emission at antenna terminals –3MHz BW LTE-Band 5
(QPSK RB Number: 1 Offset: 14) Channel Highest**

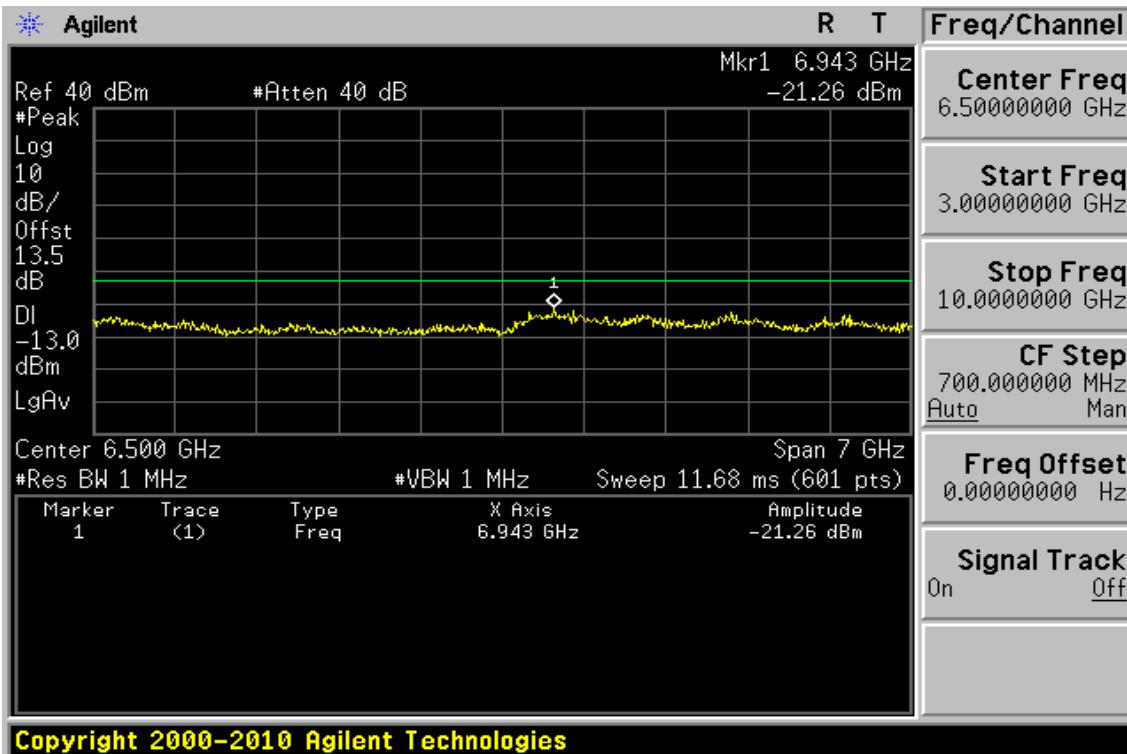
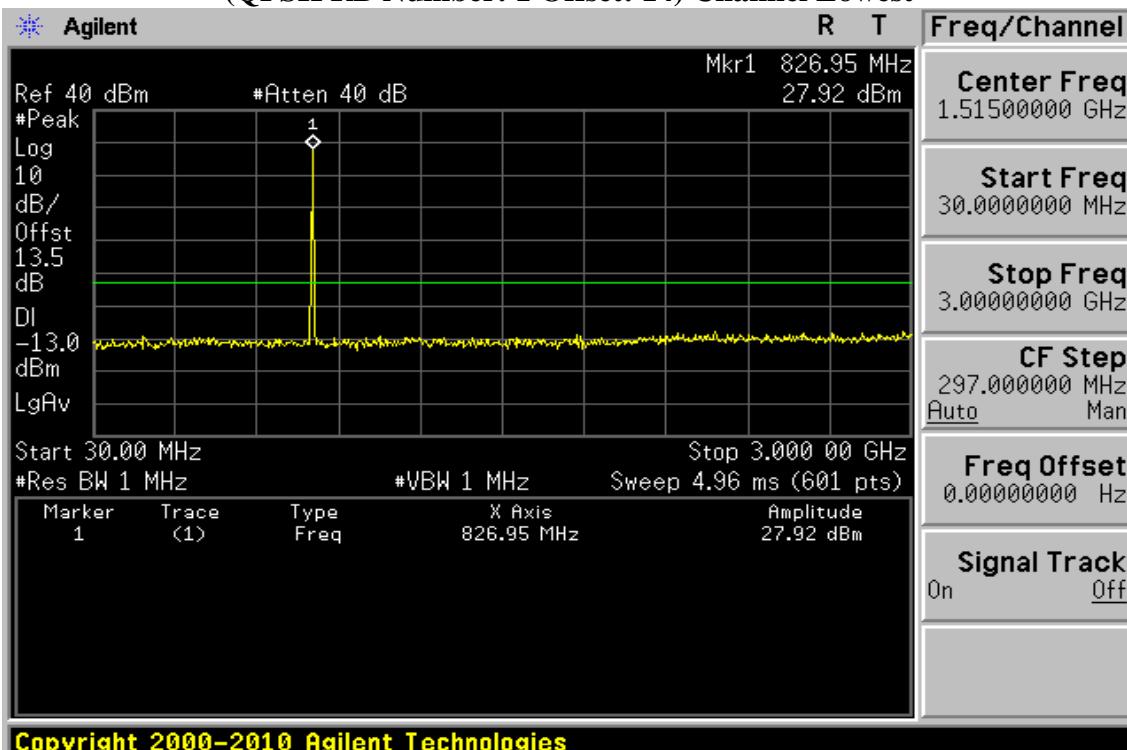


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**Figure 10-126: Out of Band emission at antenna terminals–3MHz BW LTE-Band 5
(QPSK RB Number: 1 Offset: 14) Channel Lowest**

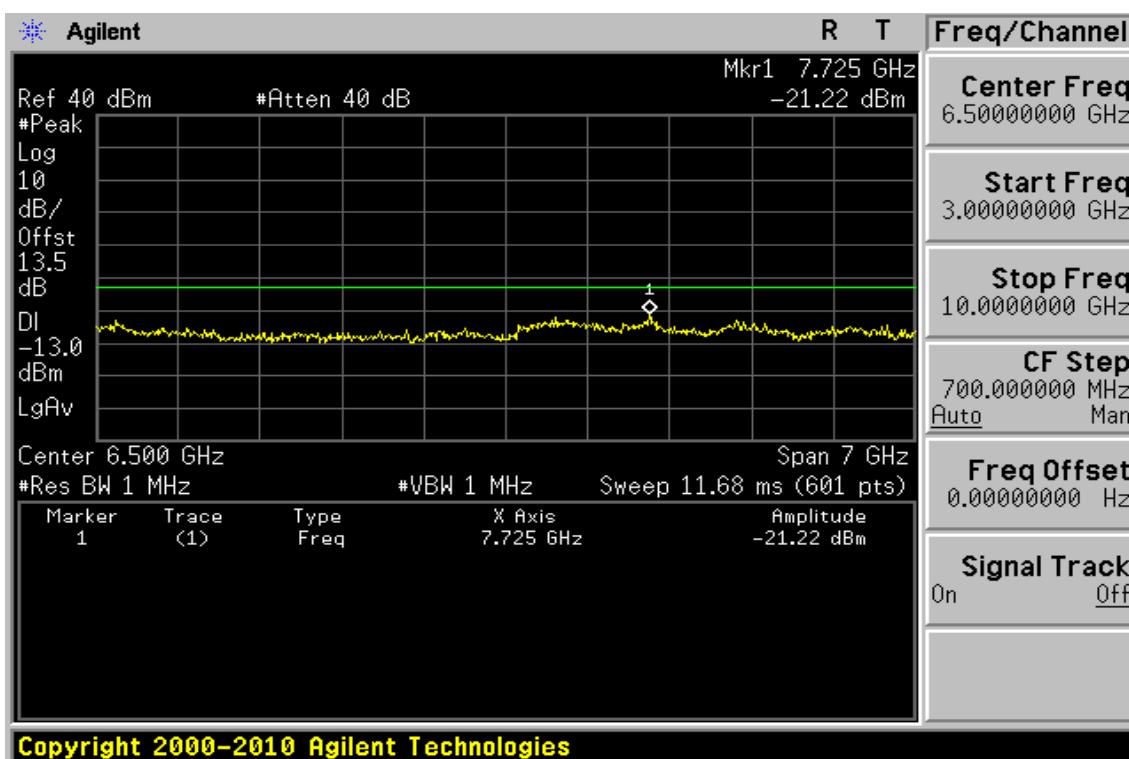
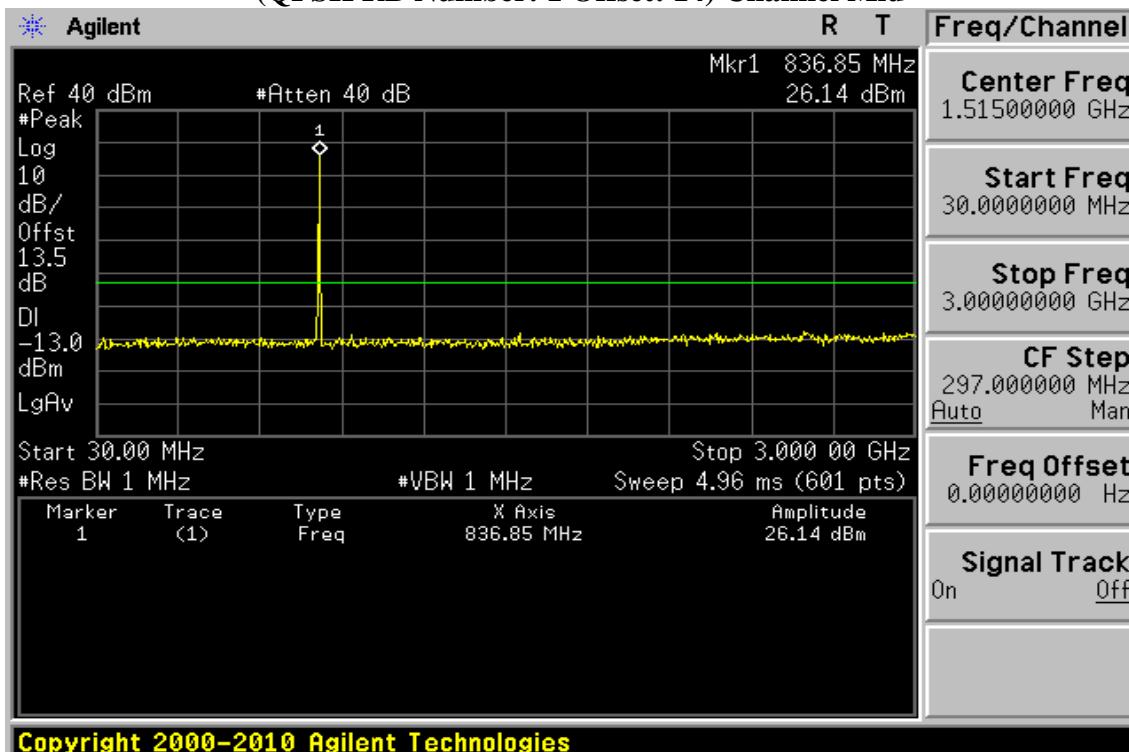


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Figure 10-127: Out of Band emission at antenna terminals –3MHz BW LTE-Band 5
(QPSK RB Number: 1 Offset: 14) Channel Mid

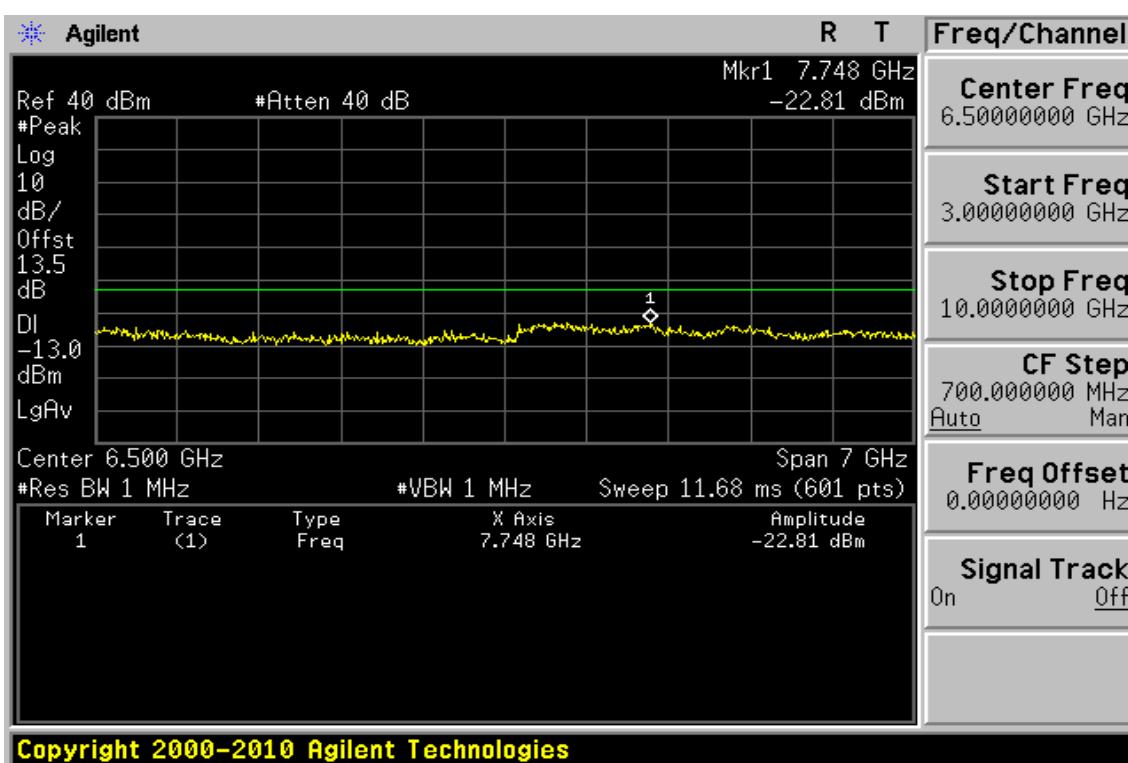
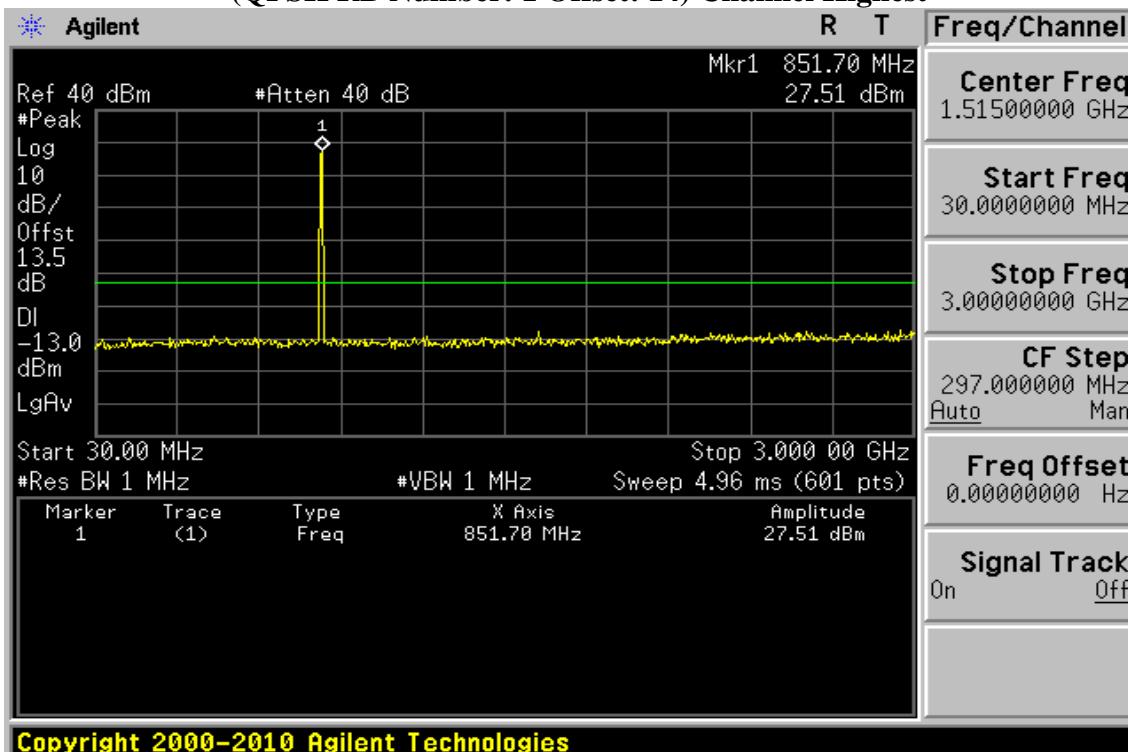


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**Figure 10-128: Out of Band emission at antenna terminals—3MHz BW LTE-Band 5
(QPSK RB Number: 1 Offset: 14) Channel Highest**

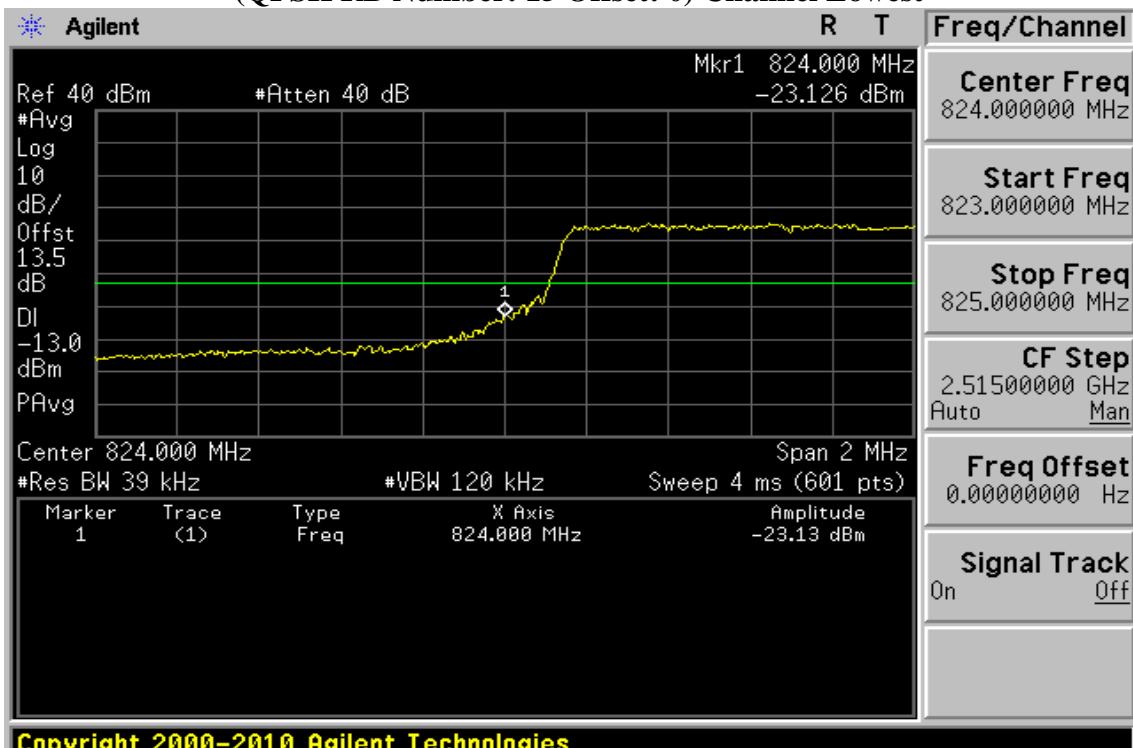


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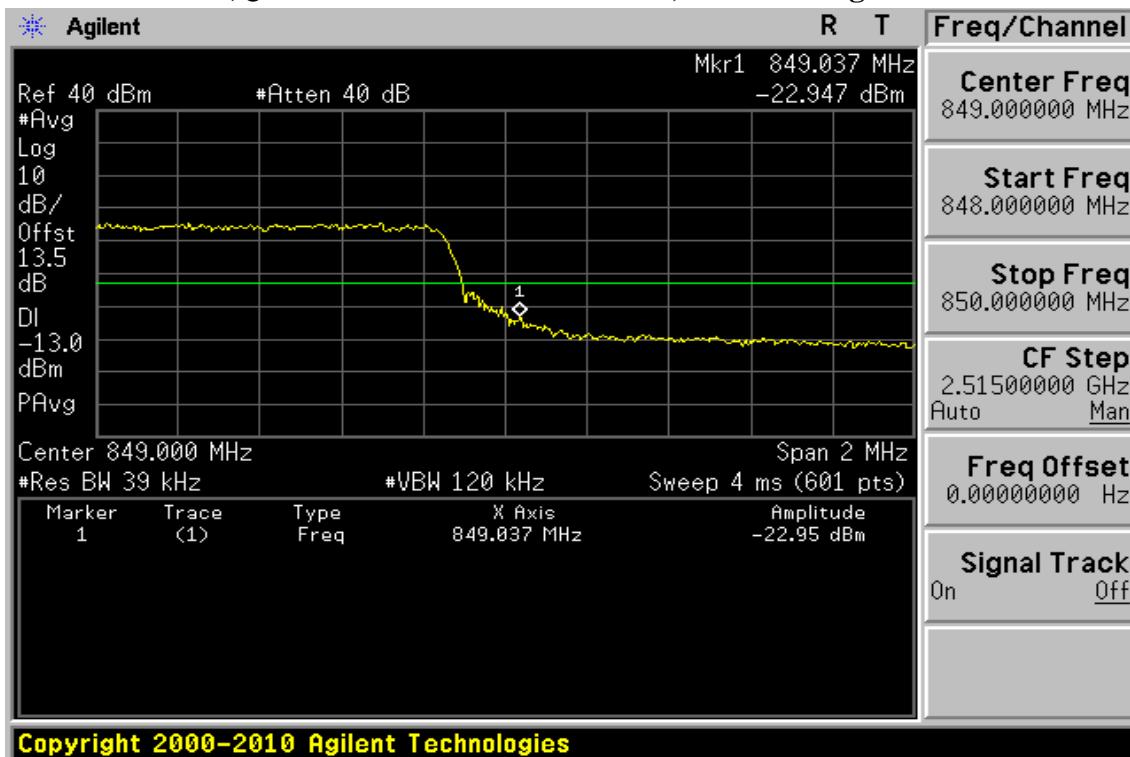
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**Figure 10-129: Band edge emission at antenna terminals –3MHz BW LTE-Band 5
(QPSK RB Number: 15 Offset: 0) Channel Lowest**



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**Figure 10-130: Band edge emission at antenna terminals –3MHz BW LTE-Band 5
(QPSK RB Number: 15 Offset: 0) Channel Highest**



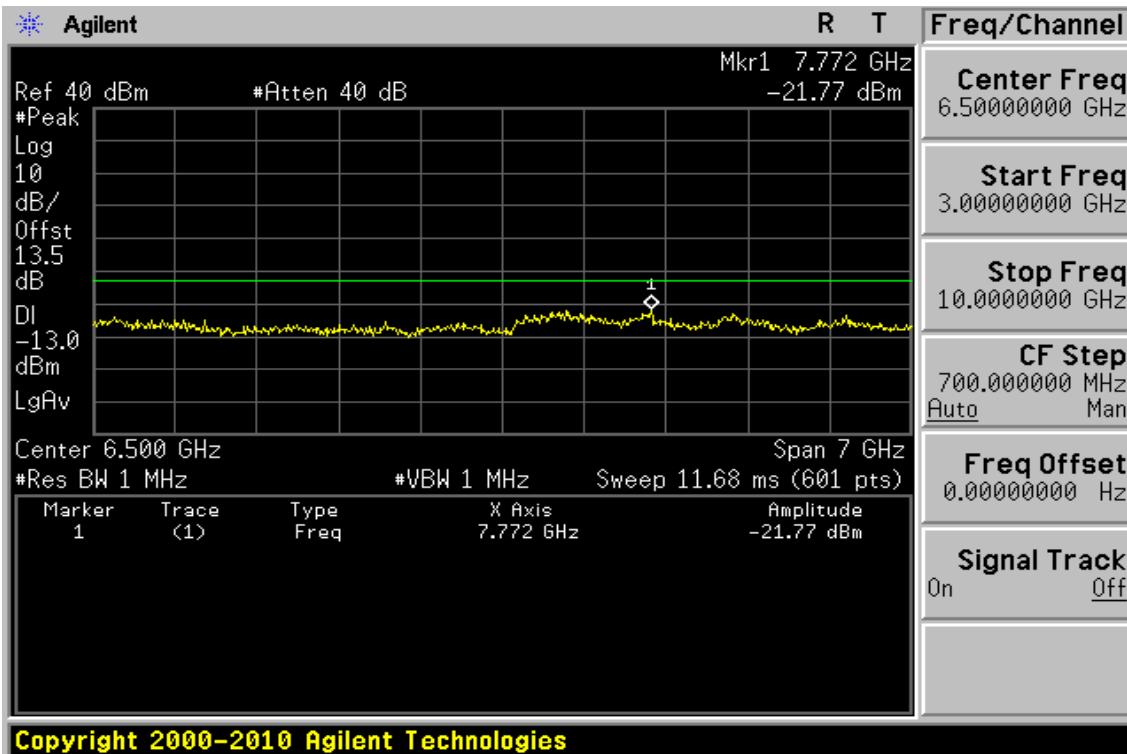
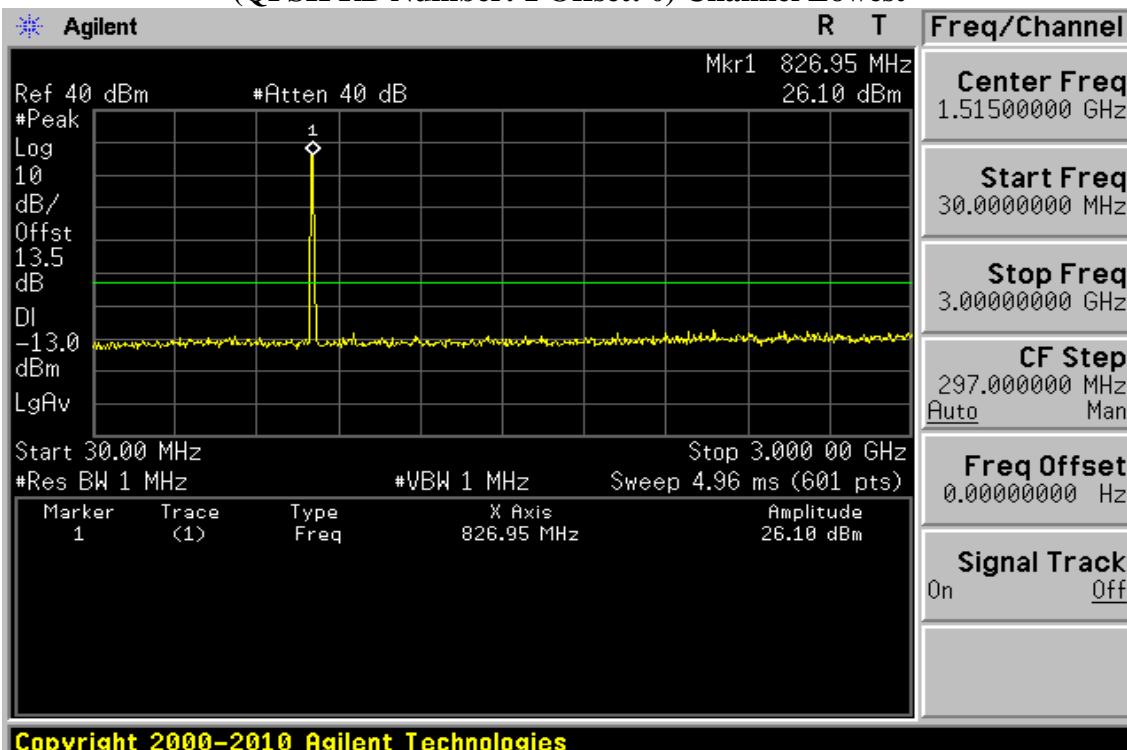
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**Figure 10-131: Out of Band emission at antenna terminals—5MHz BW LTE-Band 5
(QPSK RB Number: 1 Offset: 0) Channel Lowest**

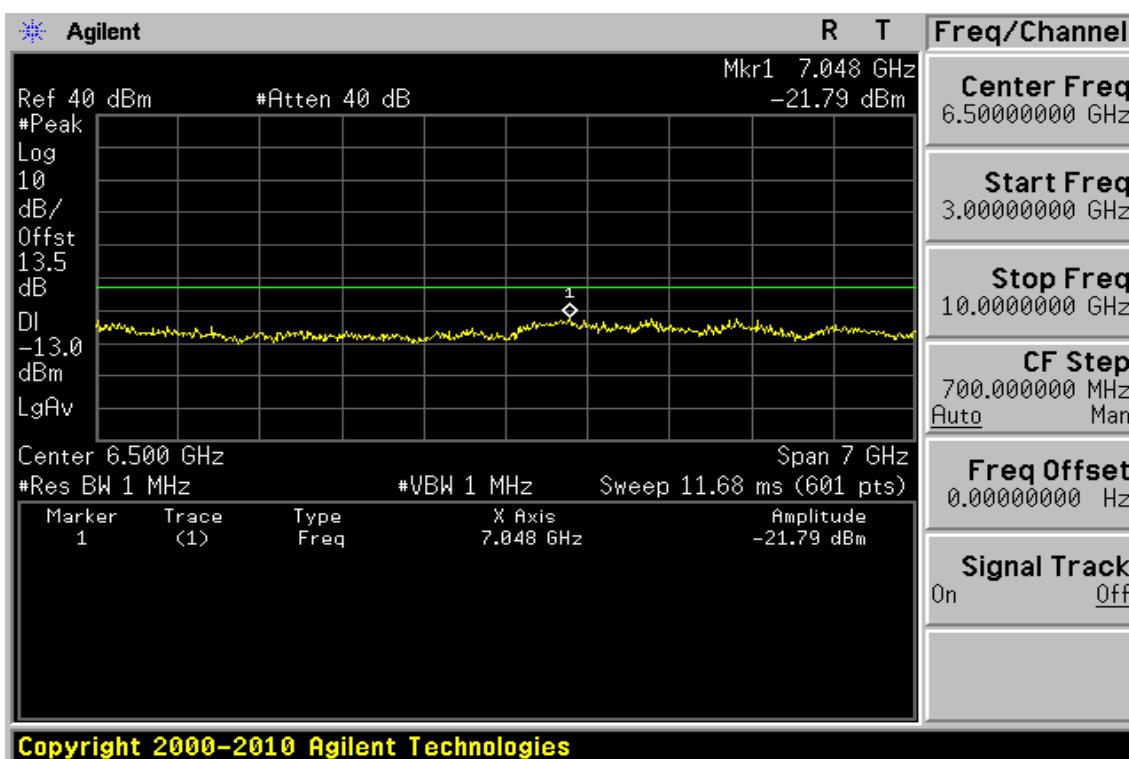
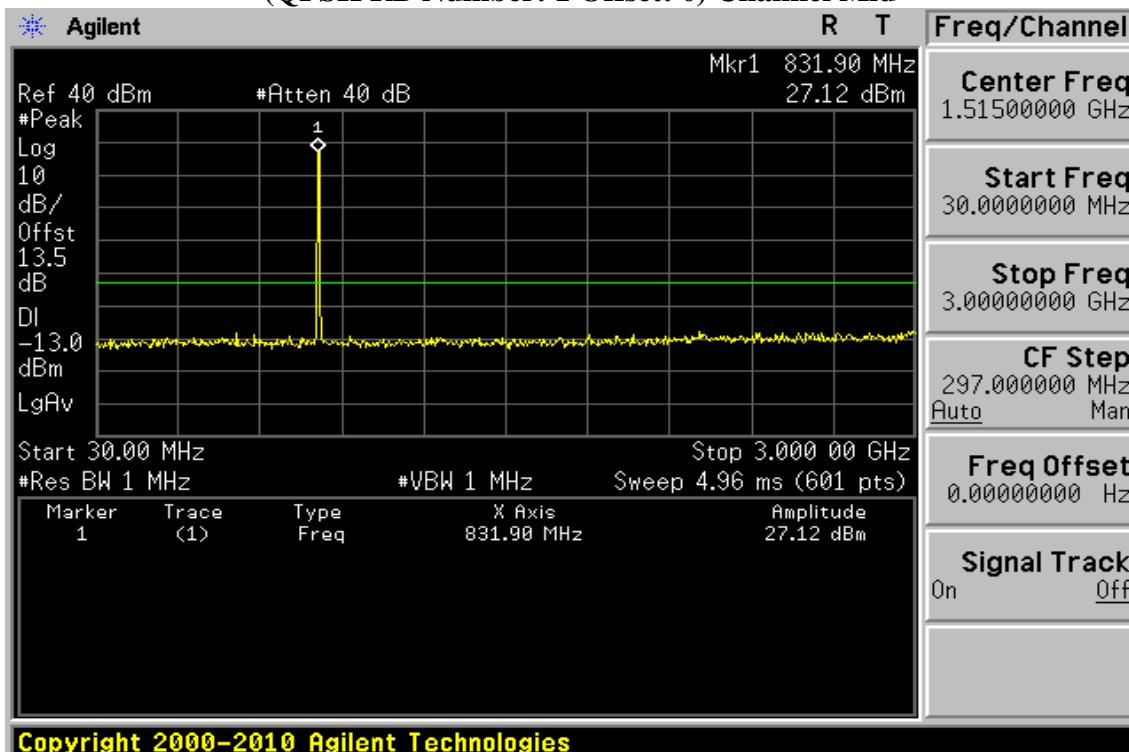


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**Figure 10-132: Out of Band emission at antenna terminals –5MHz BW LTE-Band 5
(QPSK RB Number: 1 Offset: 0) Channel Mid**

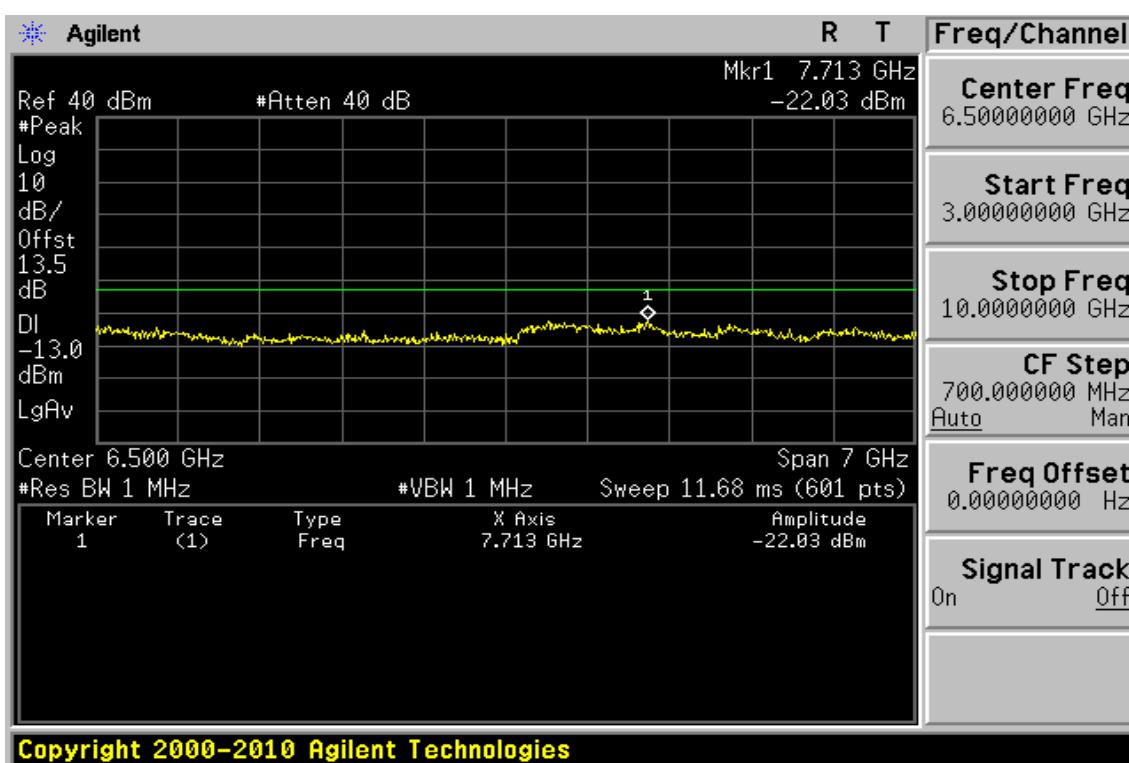
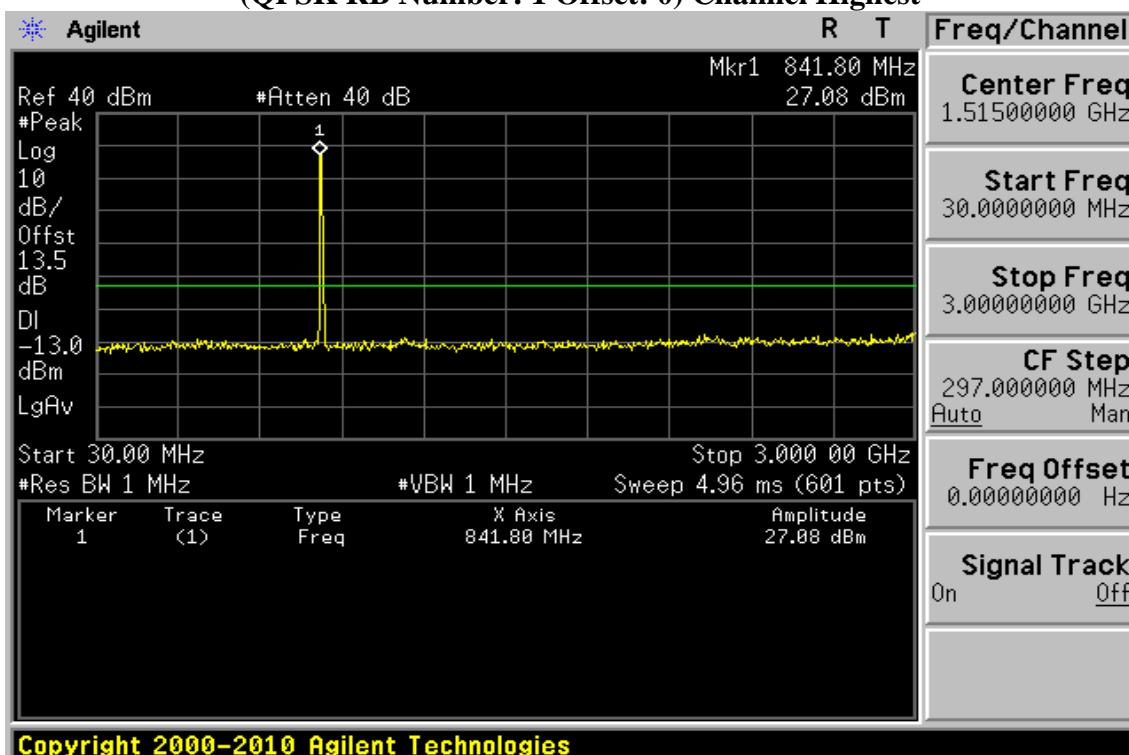


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**Figure 10-133: Out of Band emission at antenna terminals—5MHz BW LTE-Band 5
(QPSK RB Number: 1 Offset: 0) Channel Highest**

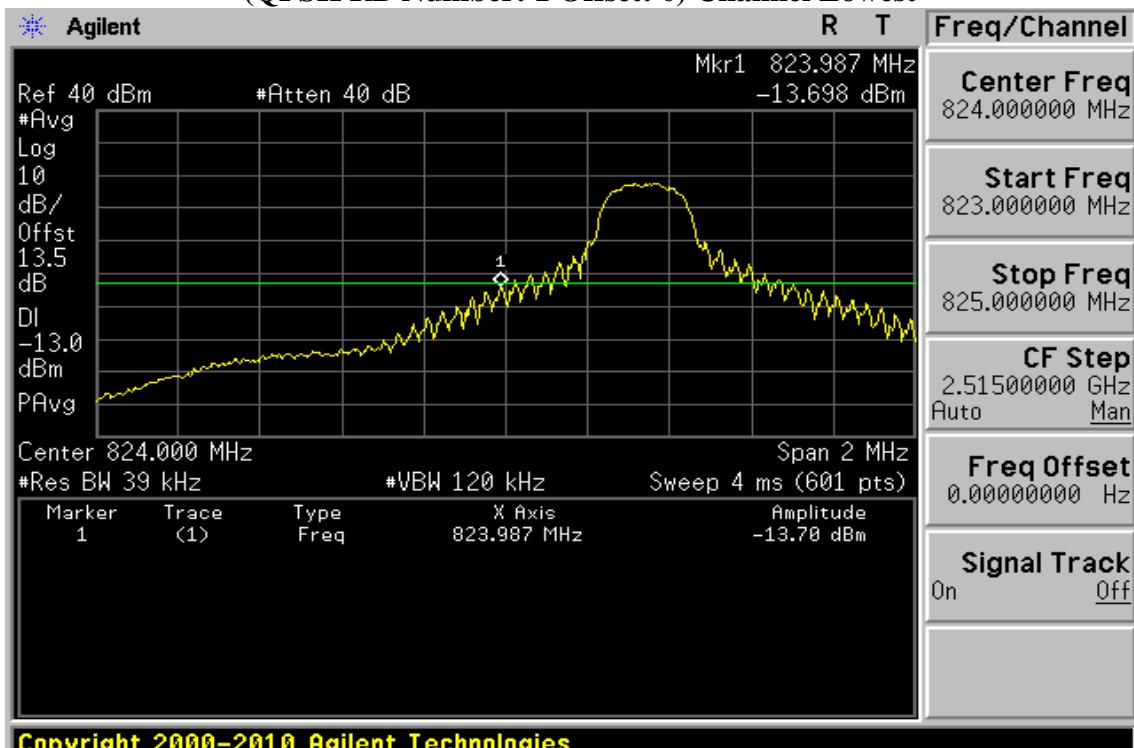


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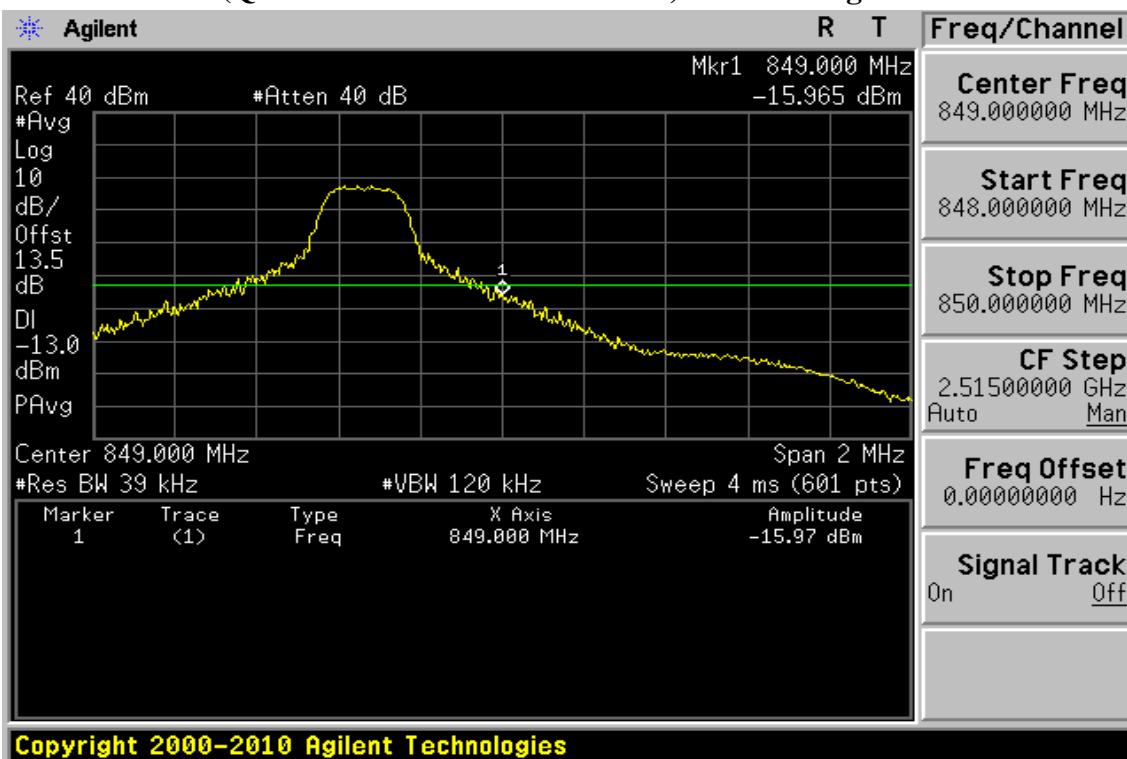
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**Figure 10-134: Band edge emission at antenna terminals –5MHz BW LTE-Band 5
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



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**Figure 10-135: Band edge emission at antenna terminals –5MHz BW LTE-Band 5
(QPSK RB Number: 1 Offset: 24) Channel Highest**



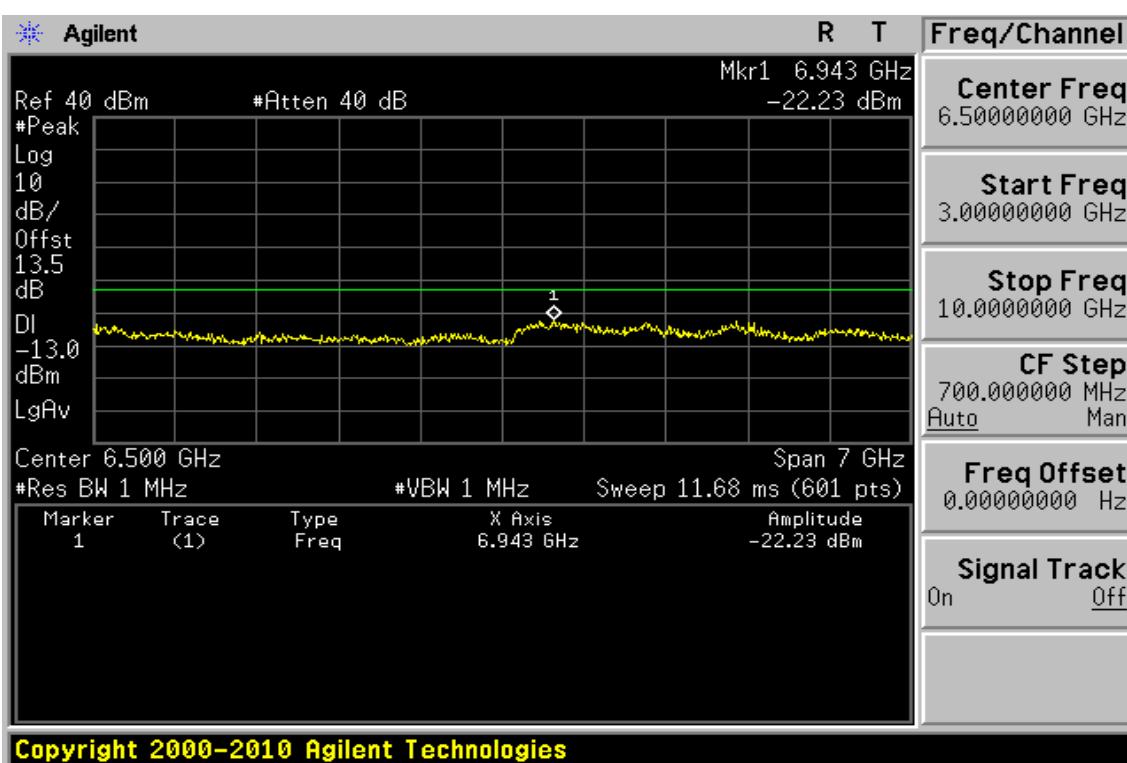
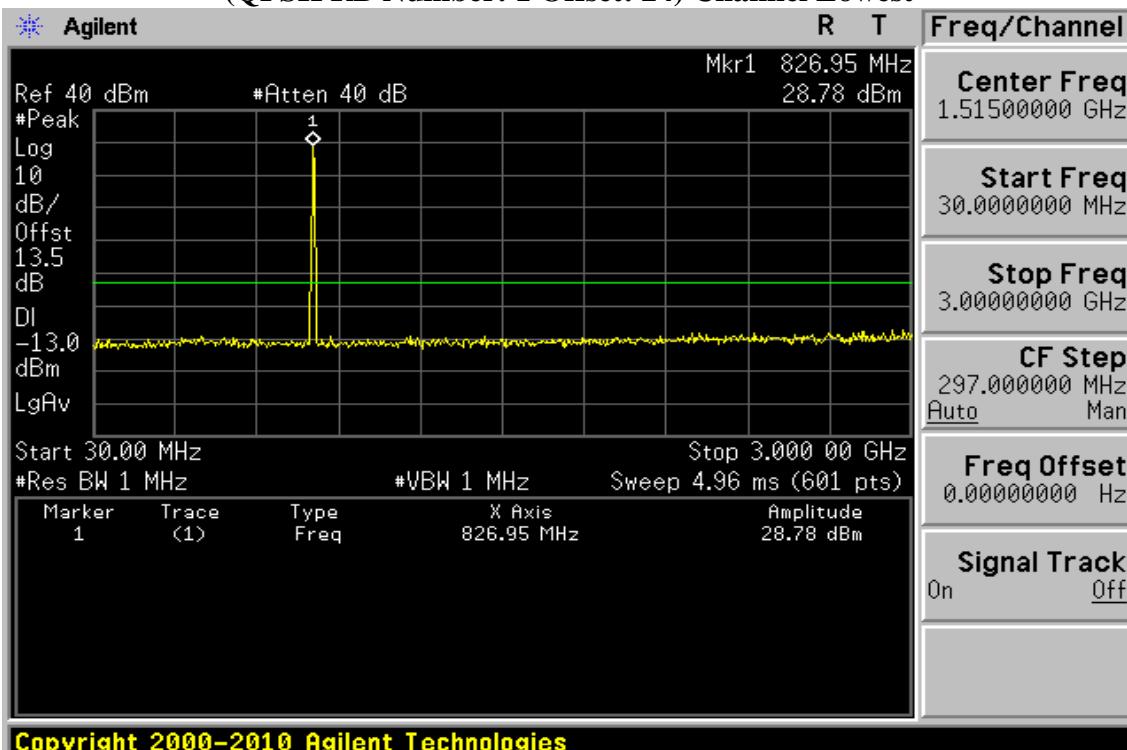
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**Figure 10-136: Out of Band emission at antenna terminals—5MHz BW LTE-Band 5
(QPSK RB Number: 1 Offset: 24) Channel Lowest**

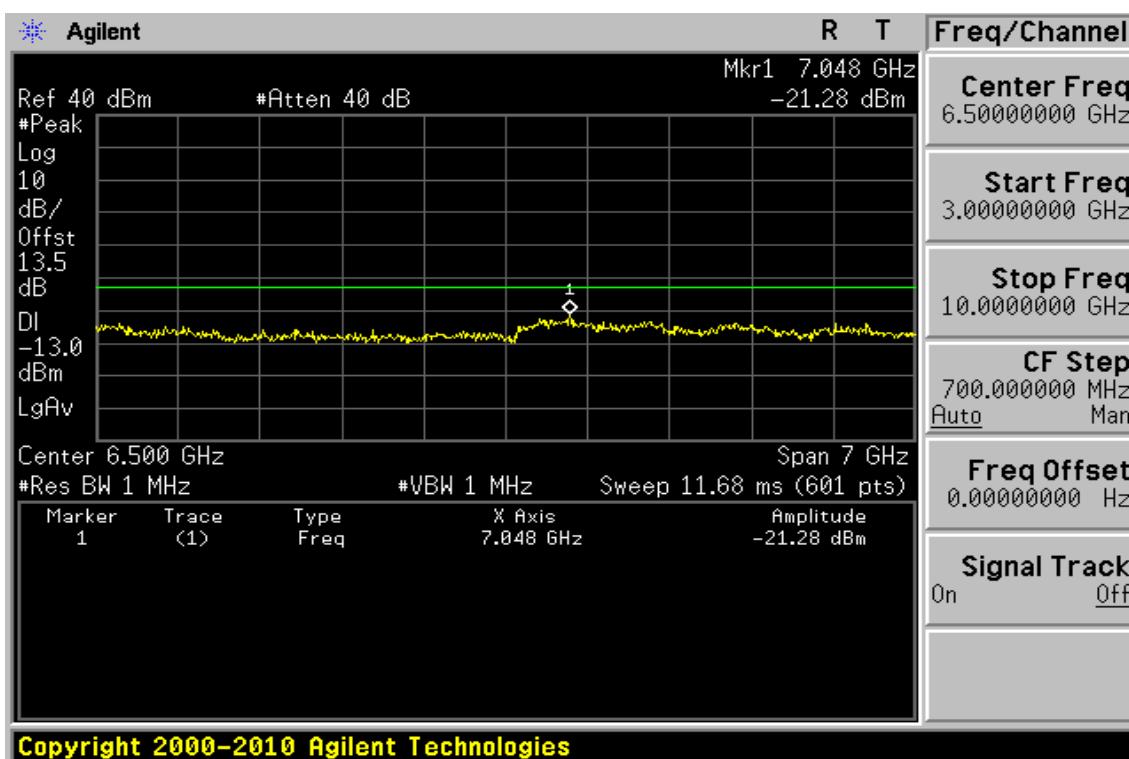
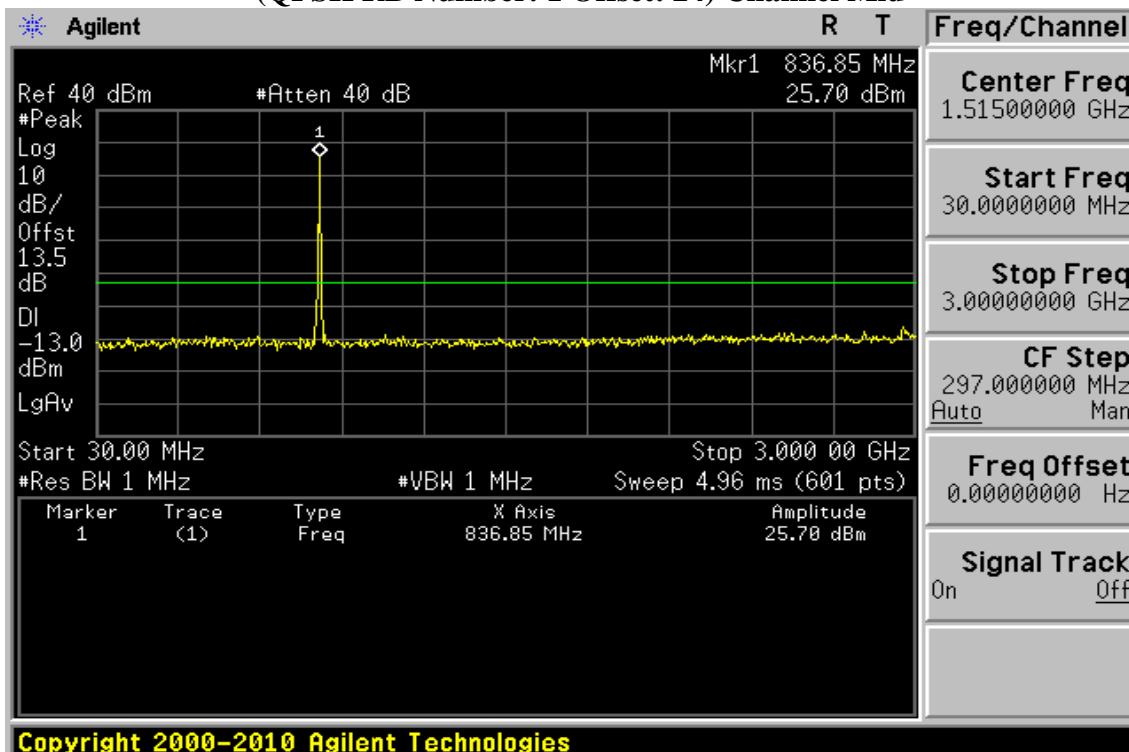


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Figure 10-137: Out of Band emission at antenna terminals –5MHz BW LTE-Band 5
(QPSK RB Number: 1 Offset: 24) Channel Mid

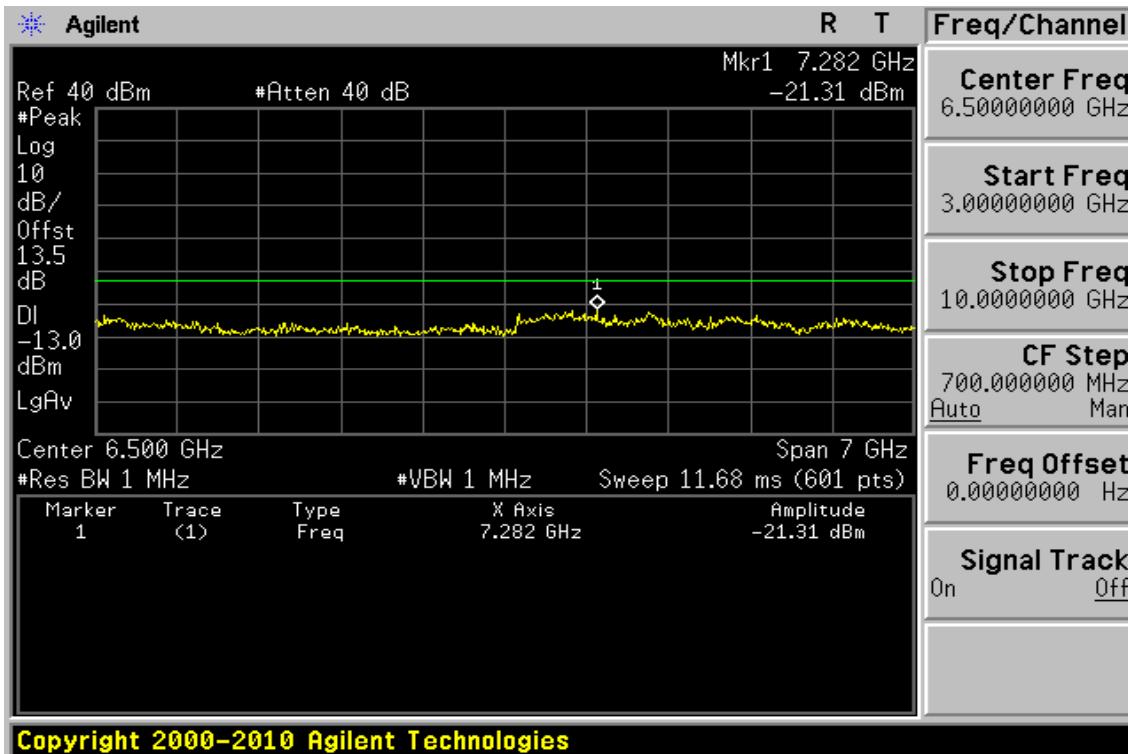
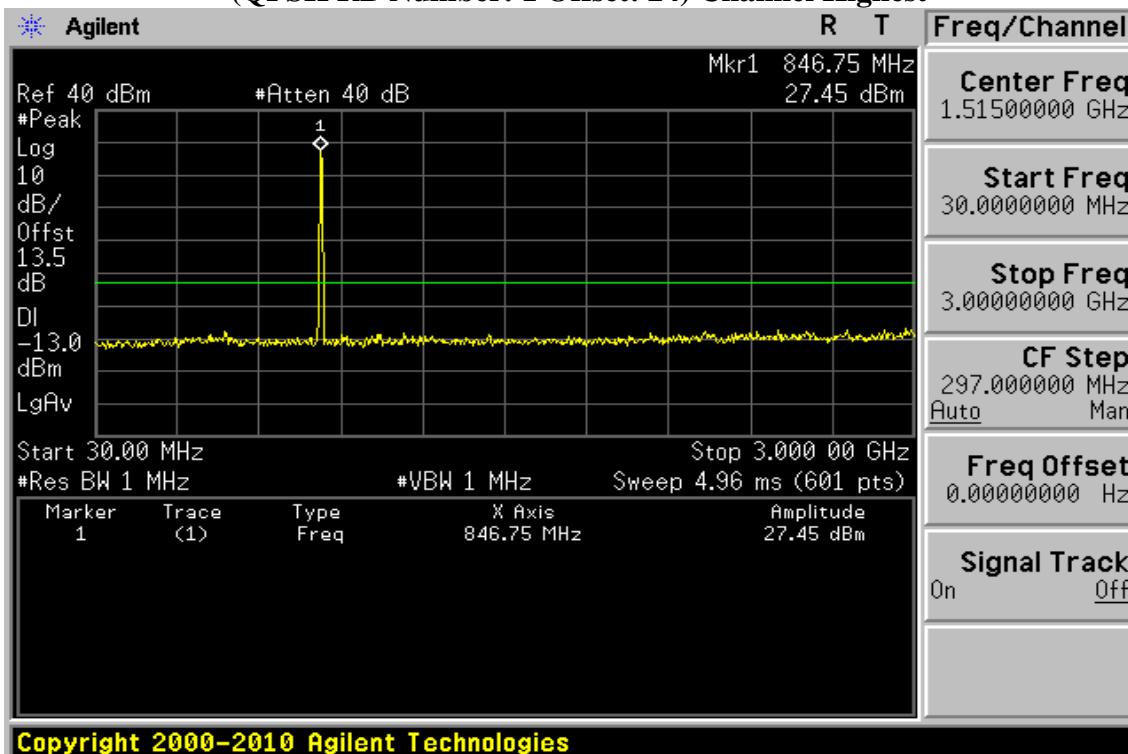


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**Figure 10-138: Out of Band emission at antenna terminals—5MHz BW LTE-Band 5
(QPSK RB Number: 1 Offset: 24) Channel Highest**

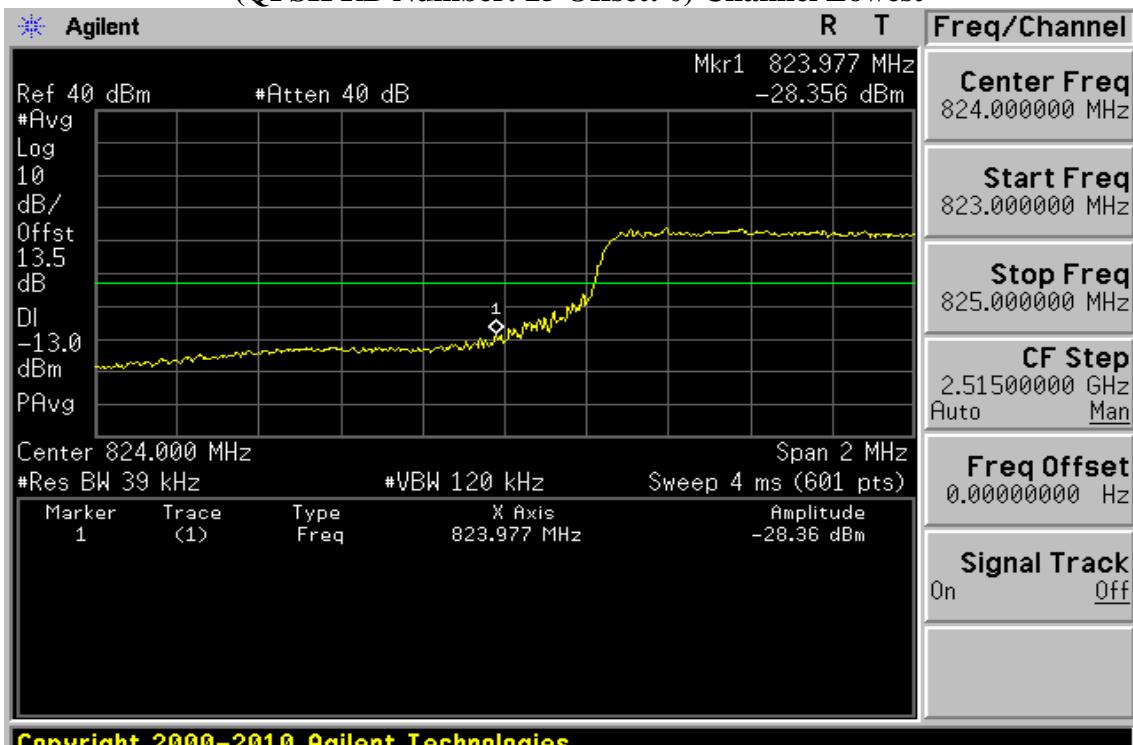


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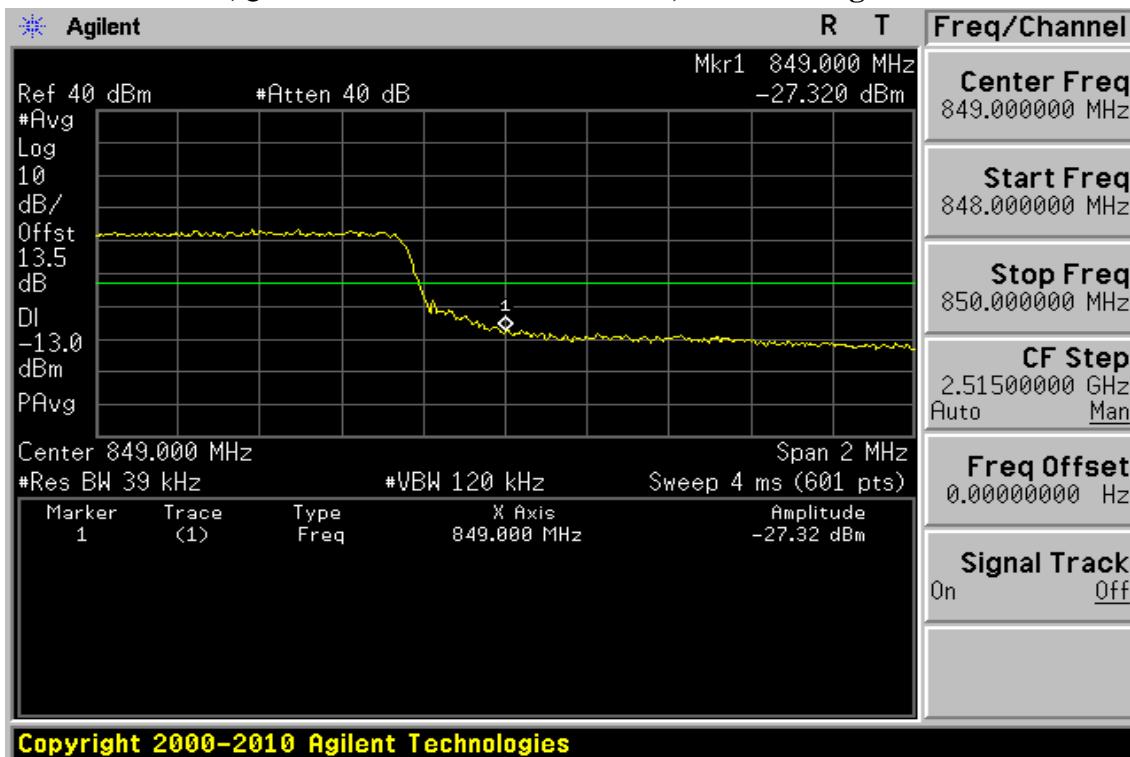
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**Figure 10-139: Band edge emission at antenna terminals –5MHz BW LTE-Band 5
(QPSK RB Number: 25 Offset: 0) Channel Lowest**



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**Figure 10-140: Band edge emission at antenna terminals –5MHz BW LTE-Band 5
(QPSK RB Number: 25 Offset: 0) Channel Highest**



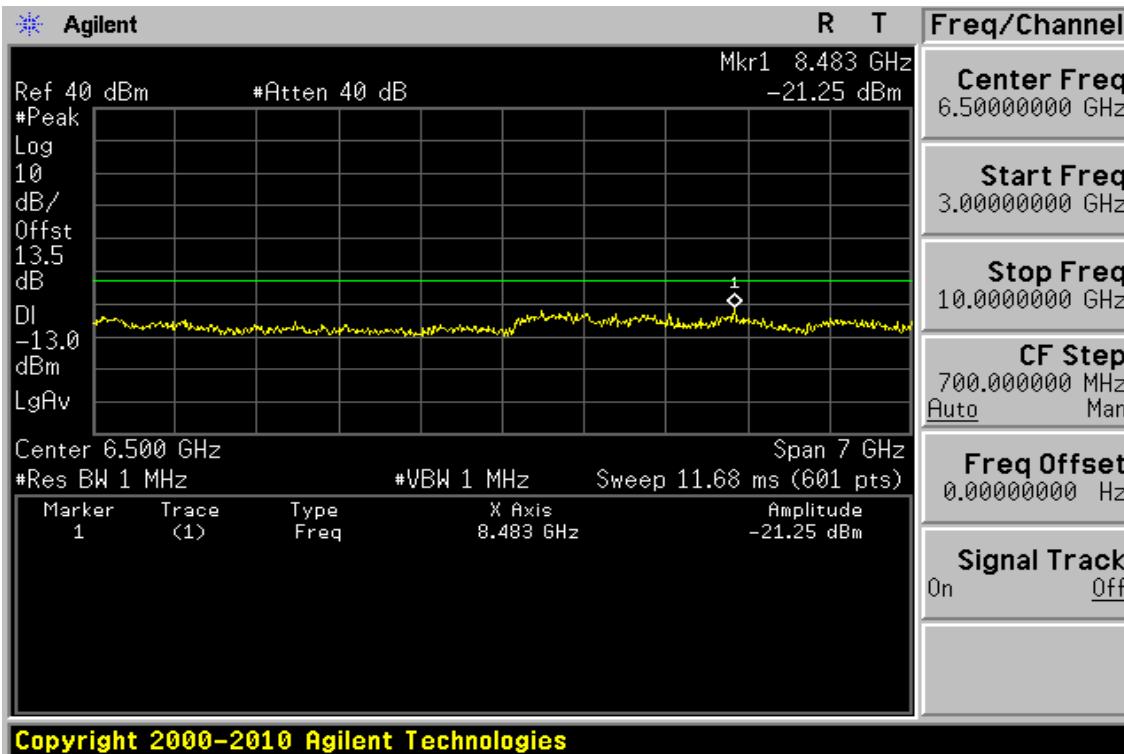
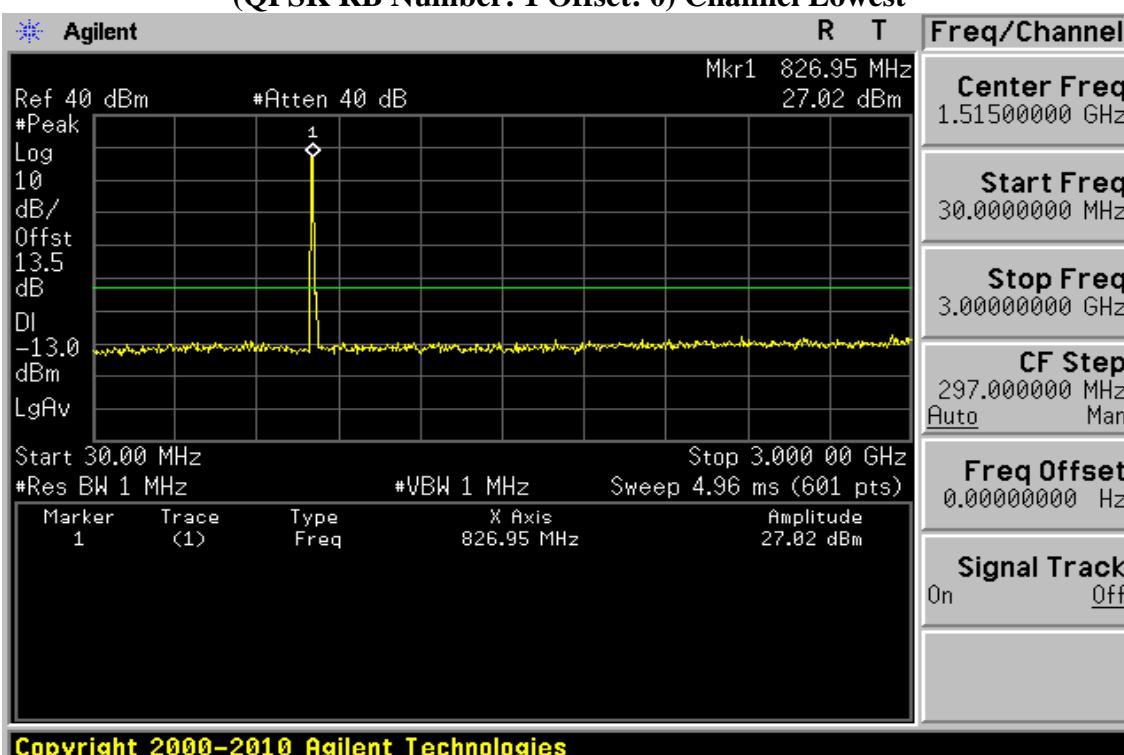
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**Figure 10-141: Out of Band emission at antenna terminals–10MHz BW LTE-Band 5
(QPSK RB Number: 1 Offset: 0) Channel Lowest**

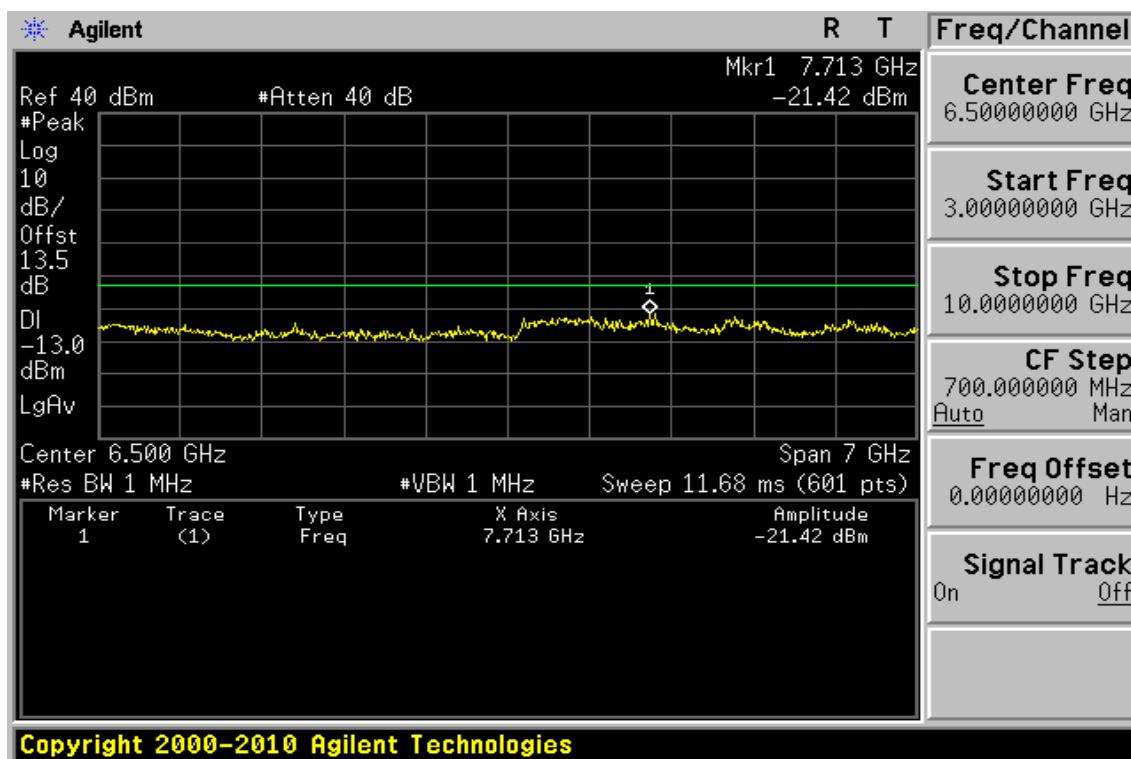
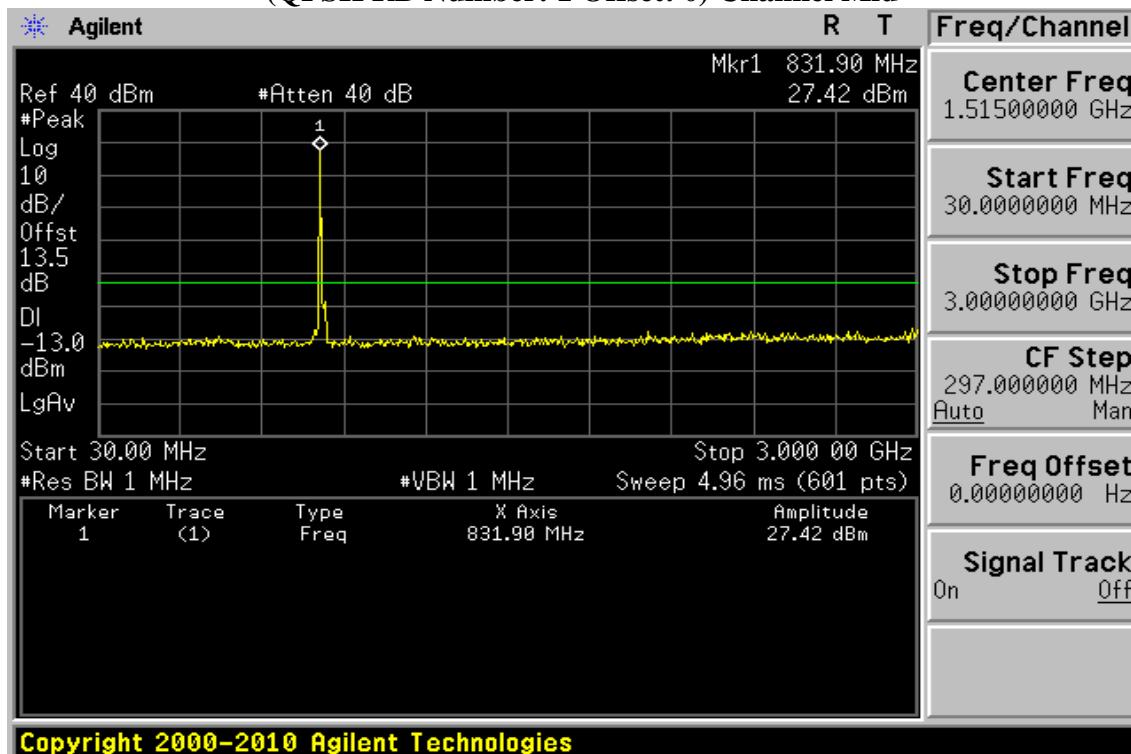


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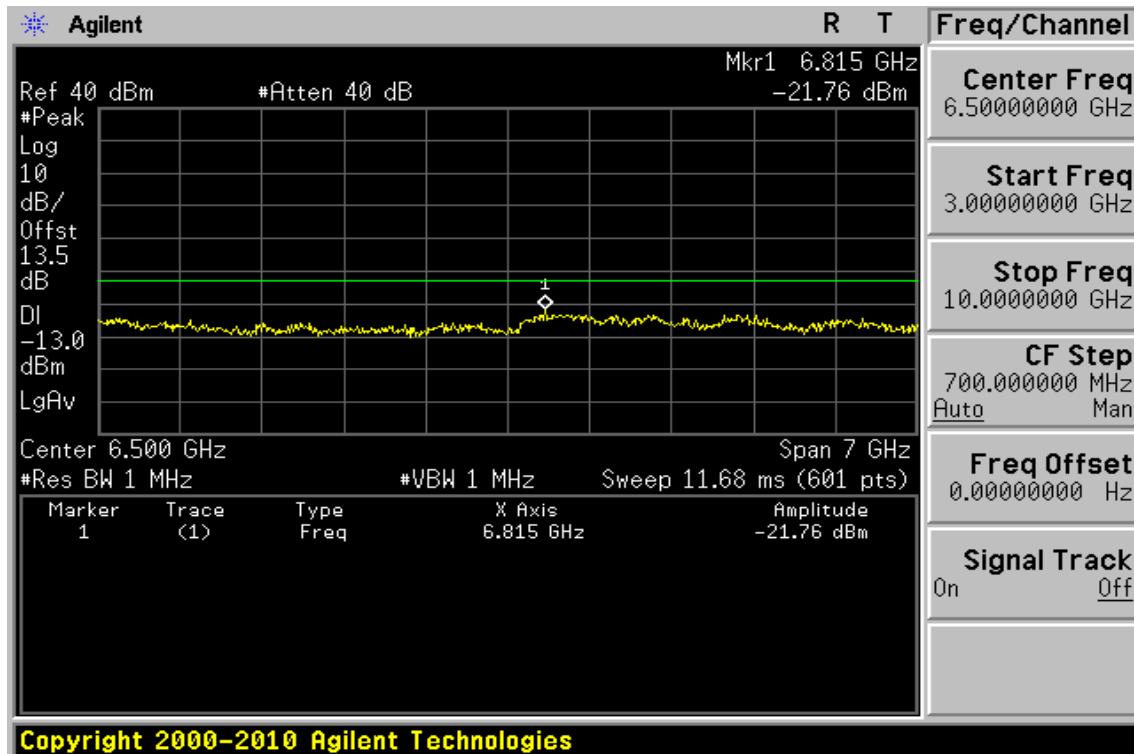
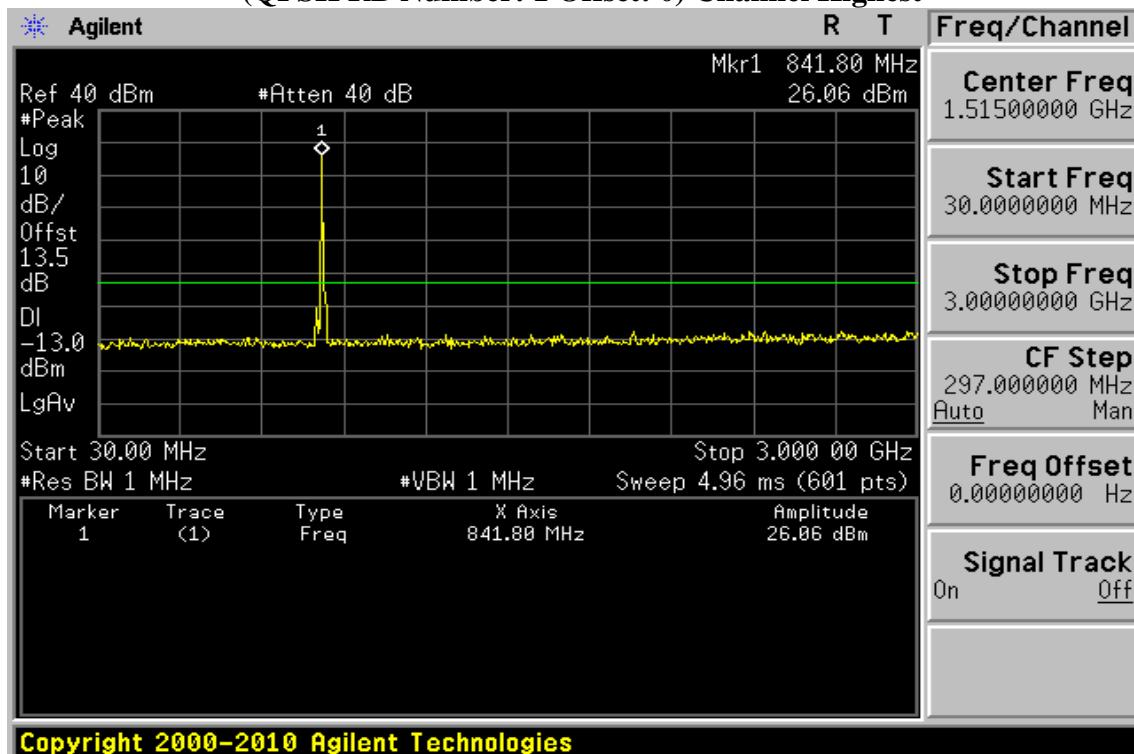
Figure 10-142: Out of Band emission at antenna terminals –10MHz BW LTE-Band 5
(QPSK RB Number: 1 Offset: 0) Channel Mid



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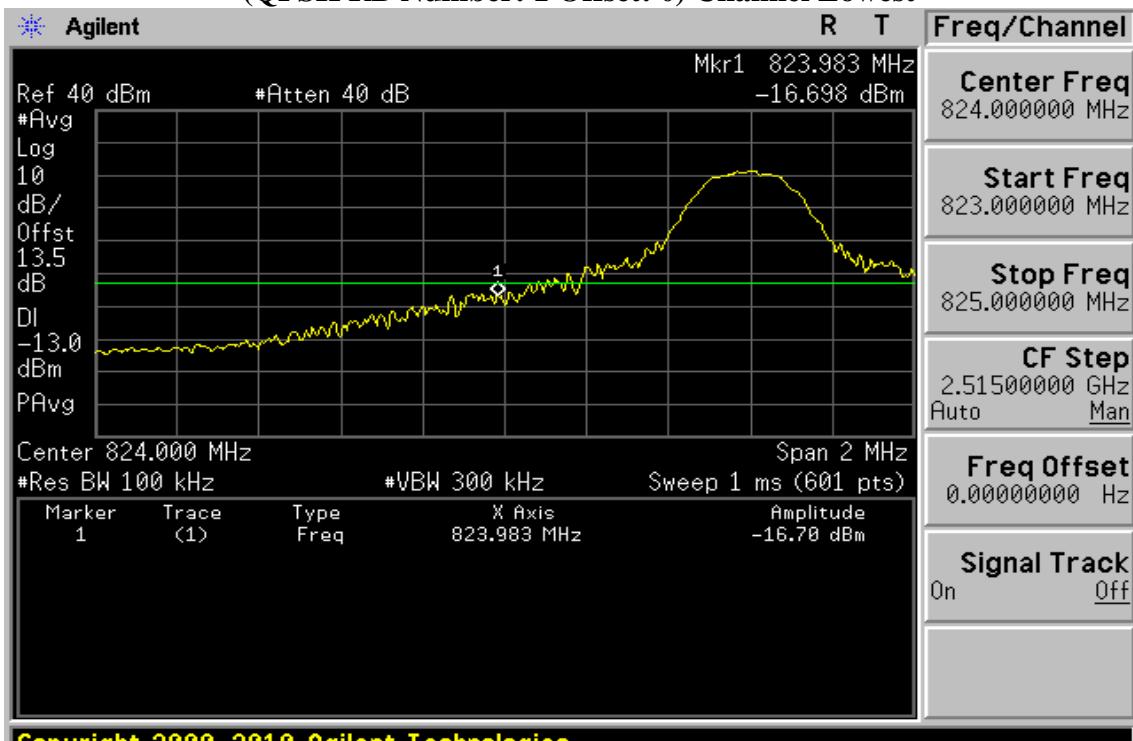
Figure 10-143: Out of Band emission at antenna terminals—10MHz BW LTE-Band 5
(QPSK RB Number: 1 Offset: 0) Channel Highest

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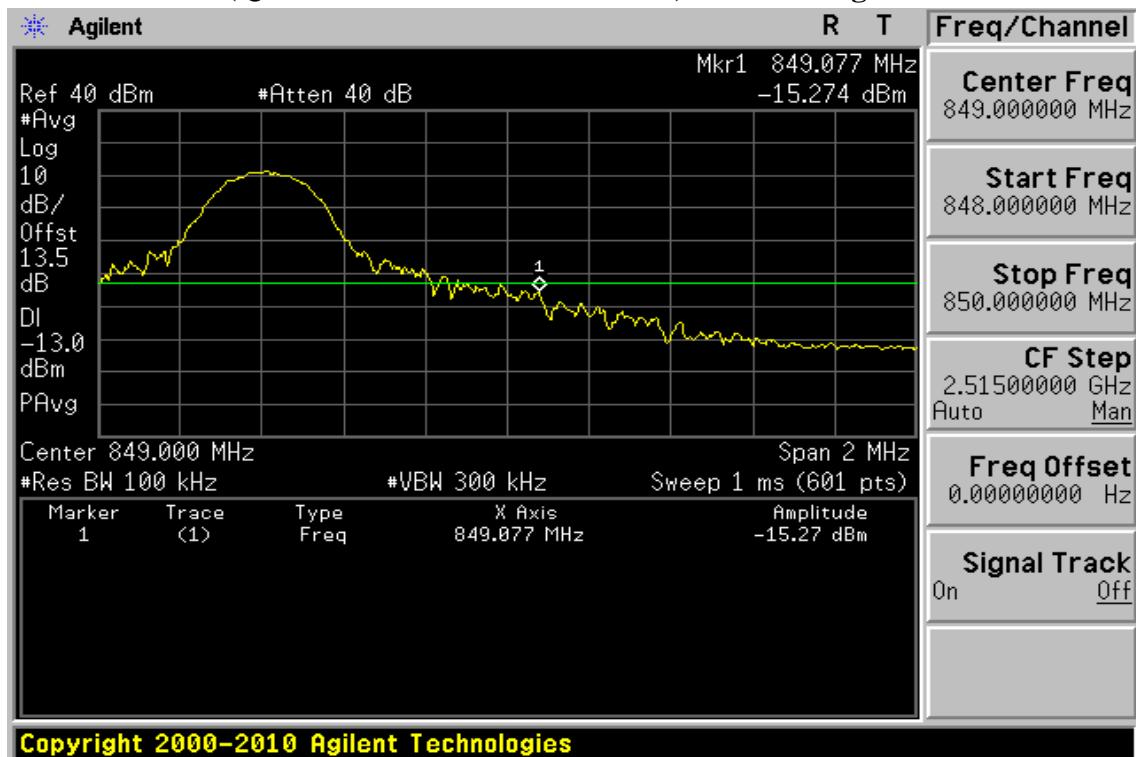
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**Figure 10-144: Band edge emission at antenna terminals –10MHz BW LTE-Band 5
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



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**Figure 10-145: Band edge emission at antenna terminals –10MHz BW LTE-Band 5
(QPSK RB Number: 1 Offset: 49) Channel Highest**



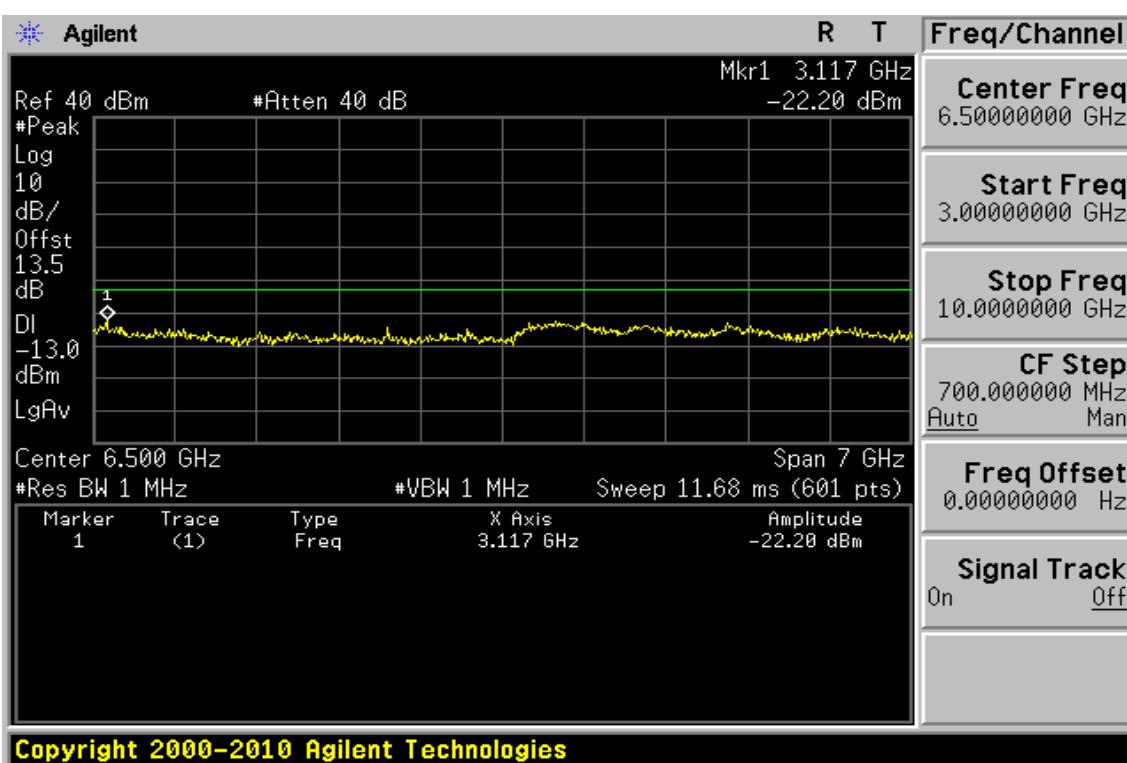
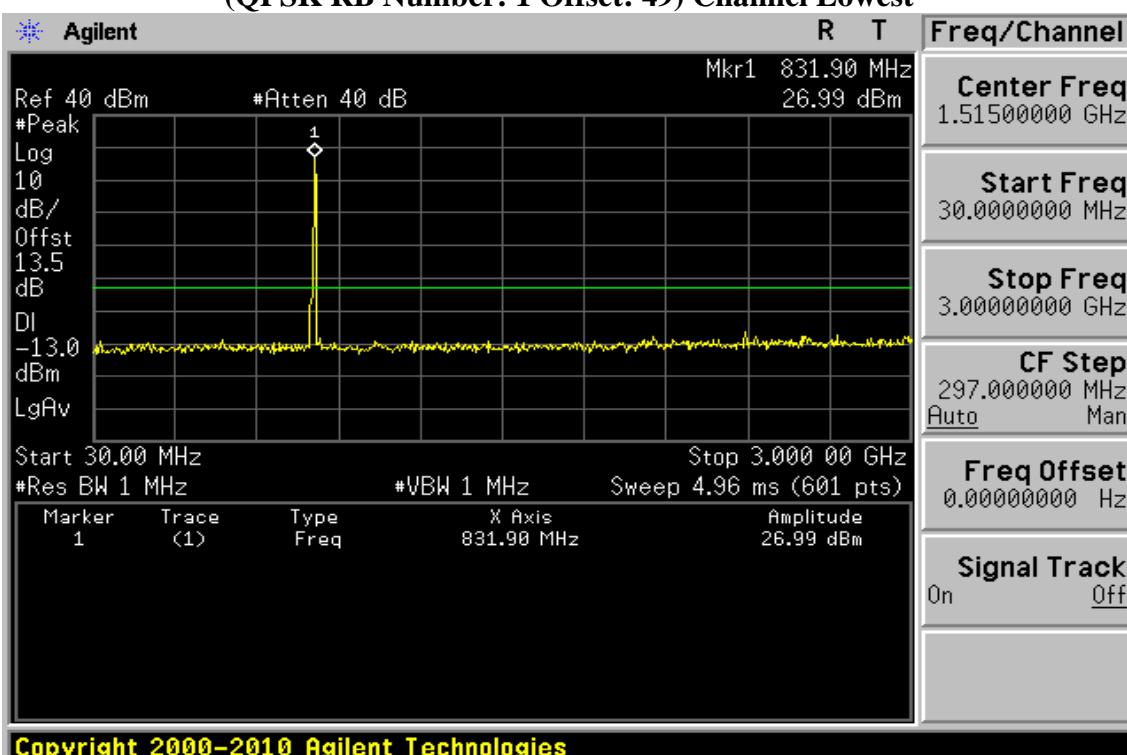
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**Figure 10-146: Out of Band emission at antenna terminals–10MHz BW LTE-Band 5
(QPSK RB Number: 1 Offset: 49) Channel Lowest**

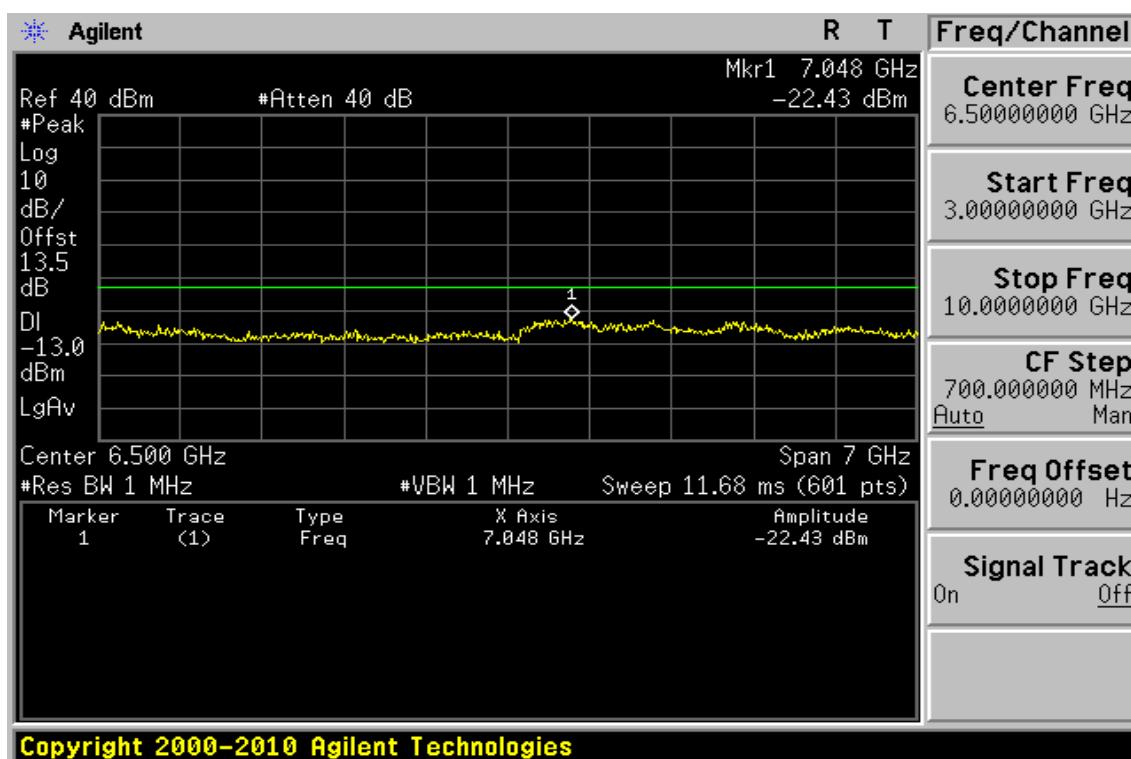
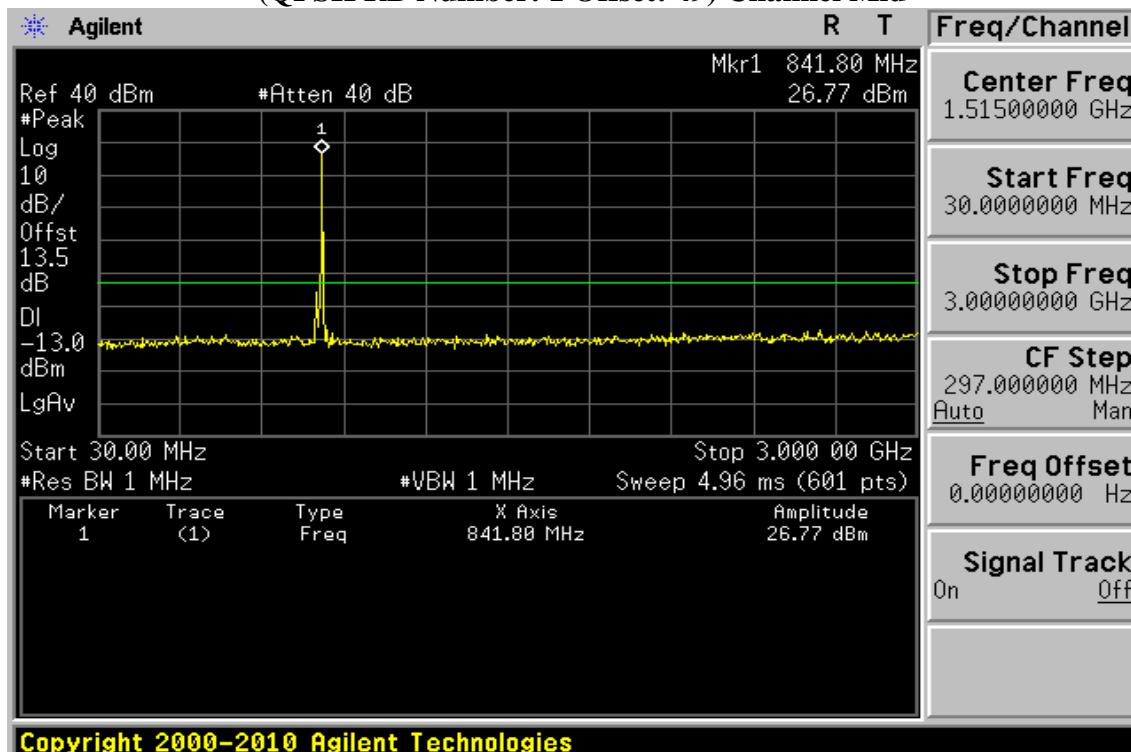


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Figure 10-147: Out of Band emission at antenna terminals –10MHz BW LTE-Band 5
(QPSK RB Number: 1 Offset: 49) Channel Mid

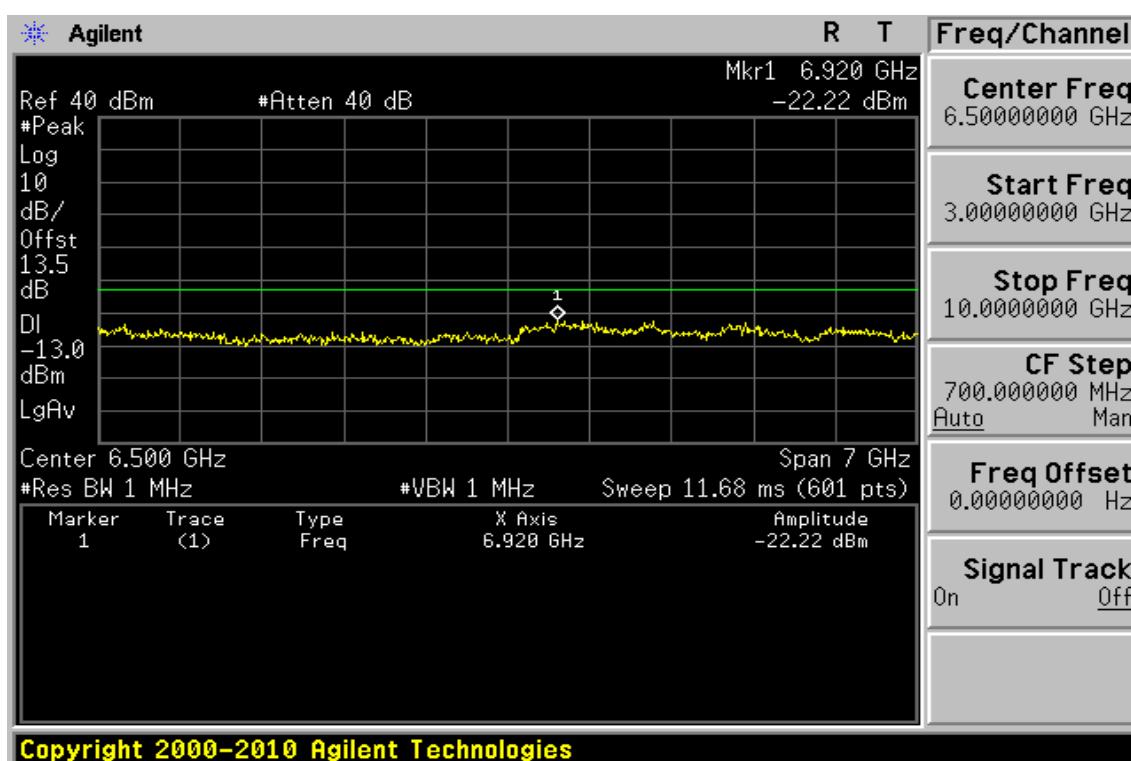
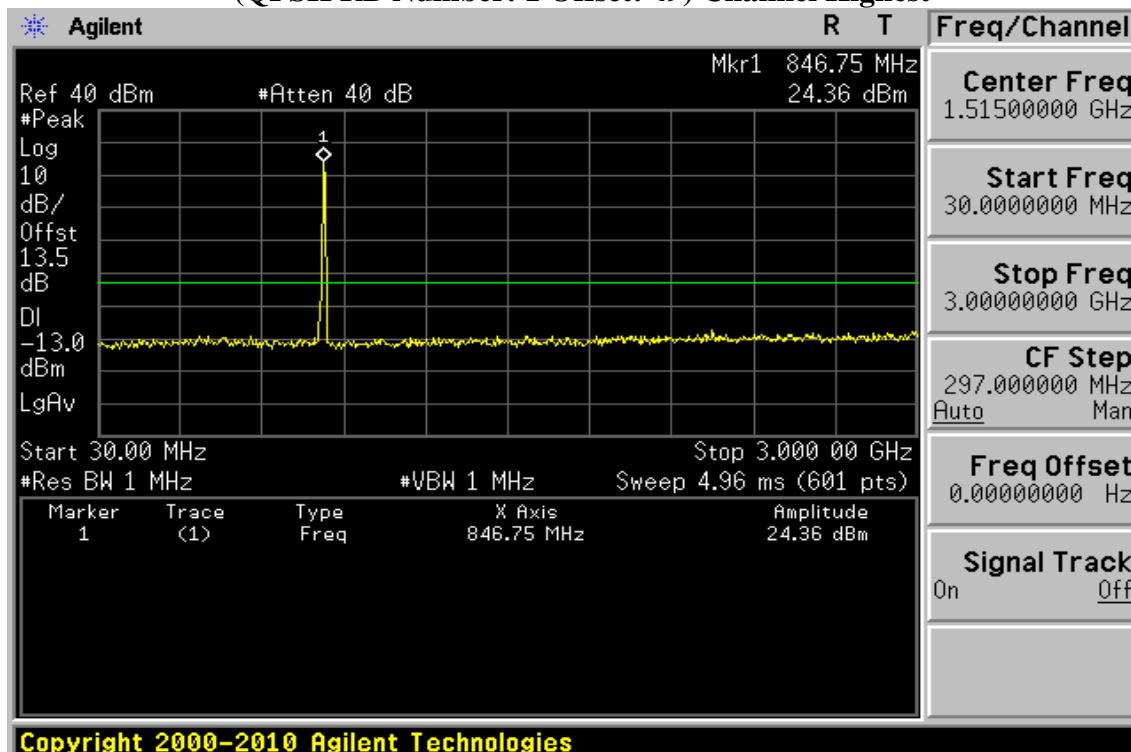


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**Figure 10-148: Out of Band emission at antenna terminals–10MHz BW LTE-Band 5
(QPSK RB Number: 1 Offset: 49) Channel Highest**

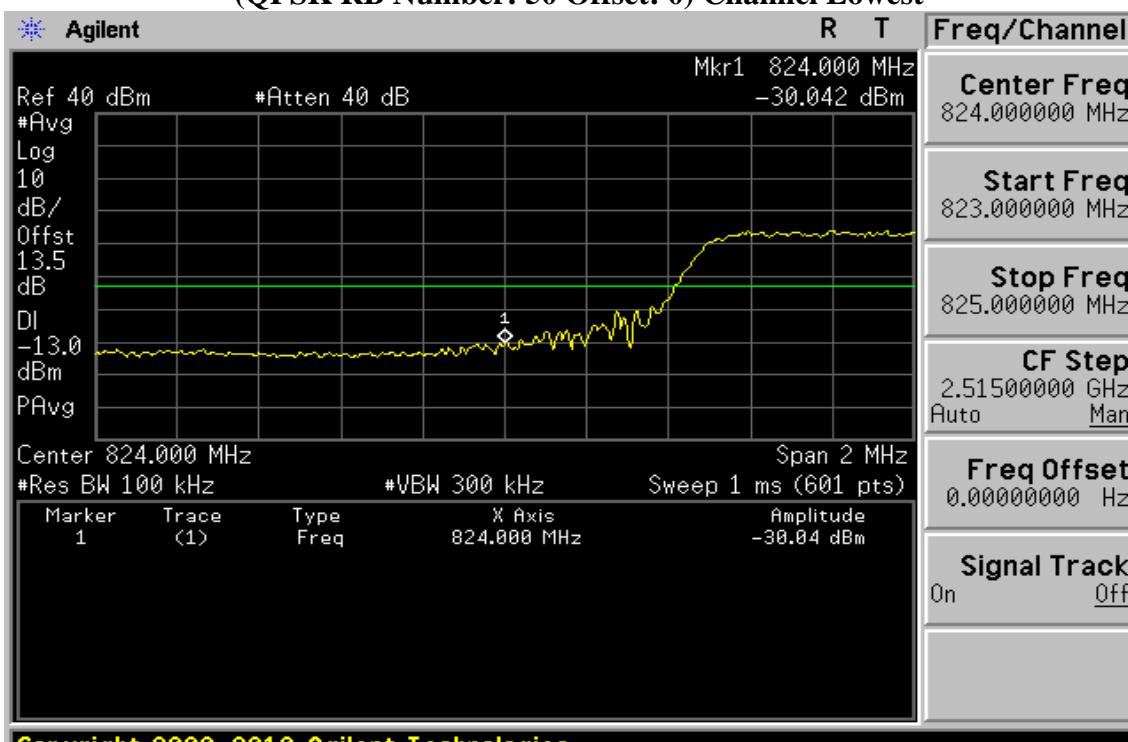


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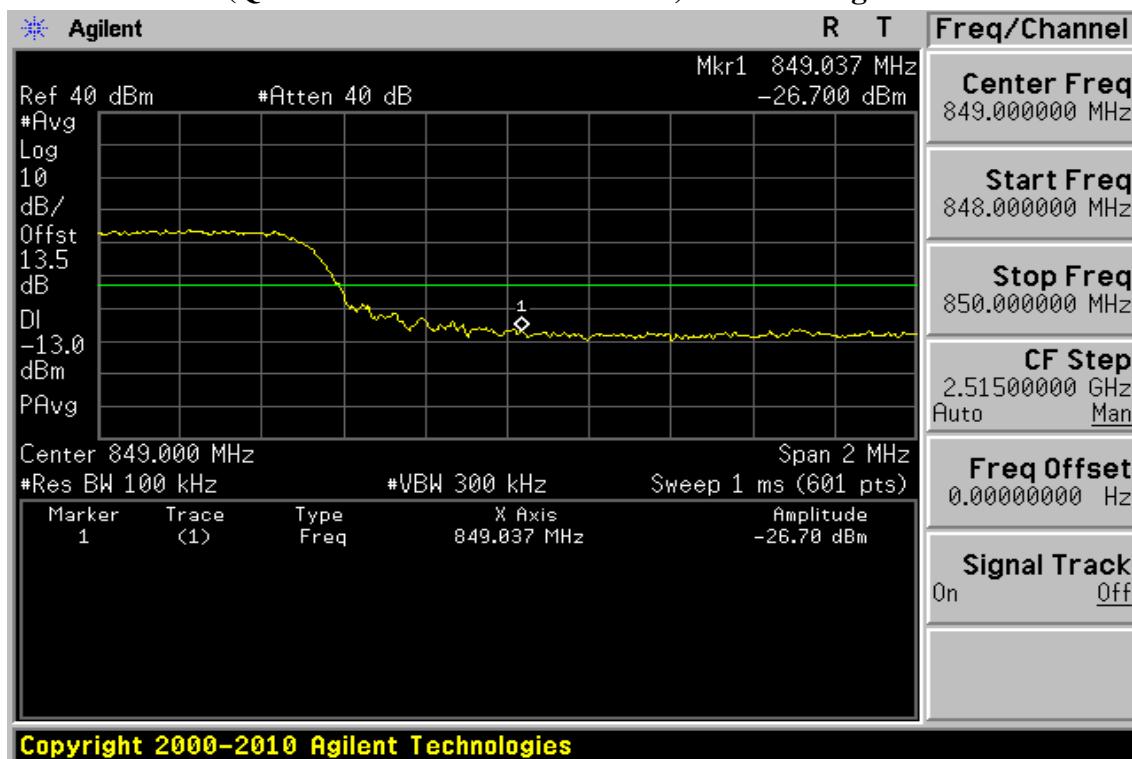
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**Figure 10-149: Band edge emission at antenna terminals –10MHz BW LTE-Band 5
(QPSK RB Number: 50 Offset: 0) Channel Lowest**



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**Figure 10-150: Band edge emission at antenna terminals –10MHz BW LTE-Band 5
(QPSK RB Number: 50 Offset: 0) Channel Highest**



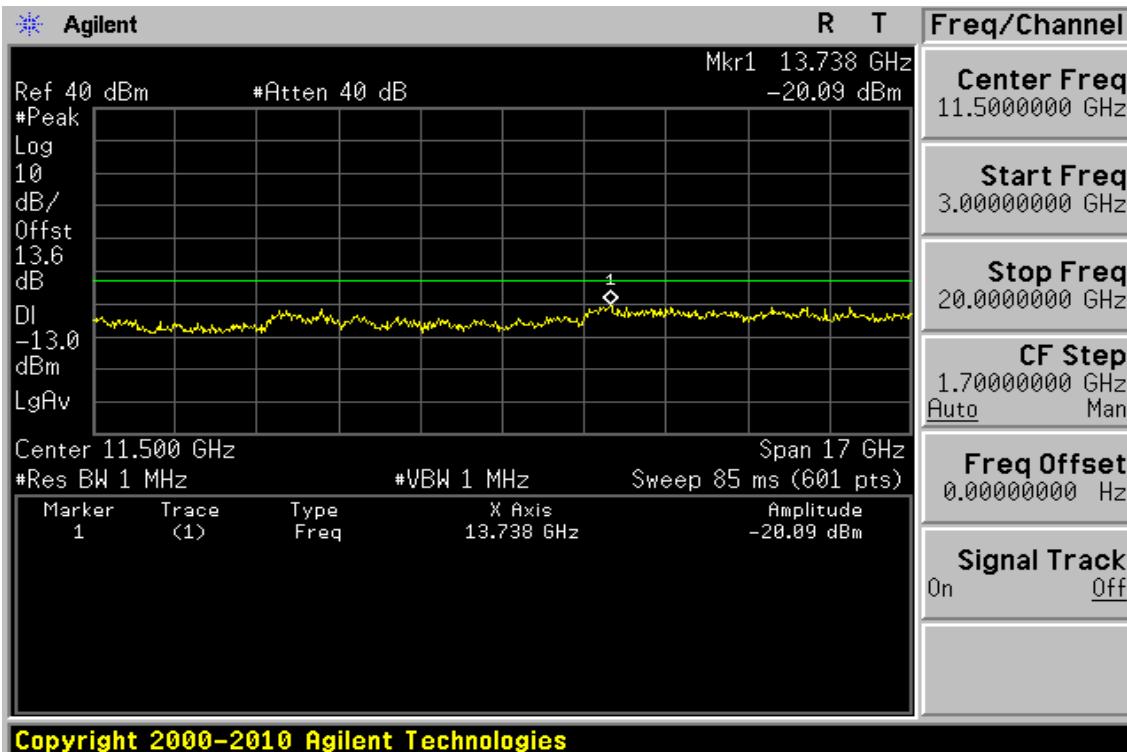
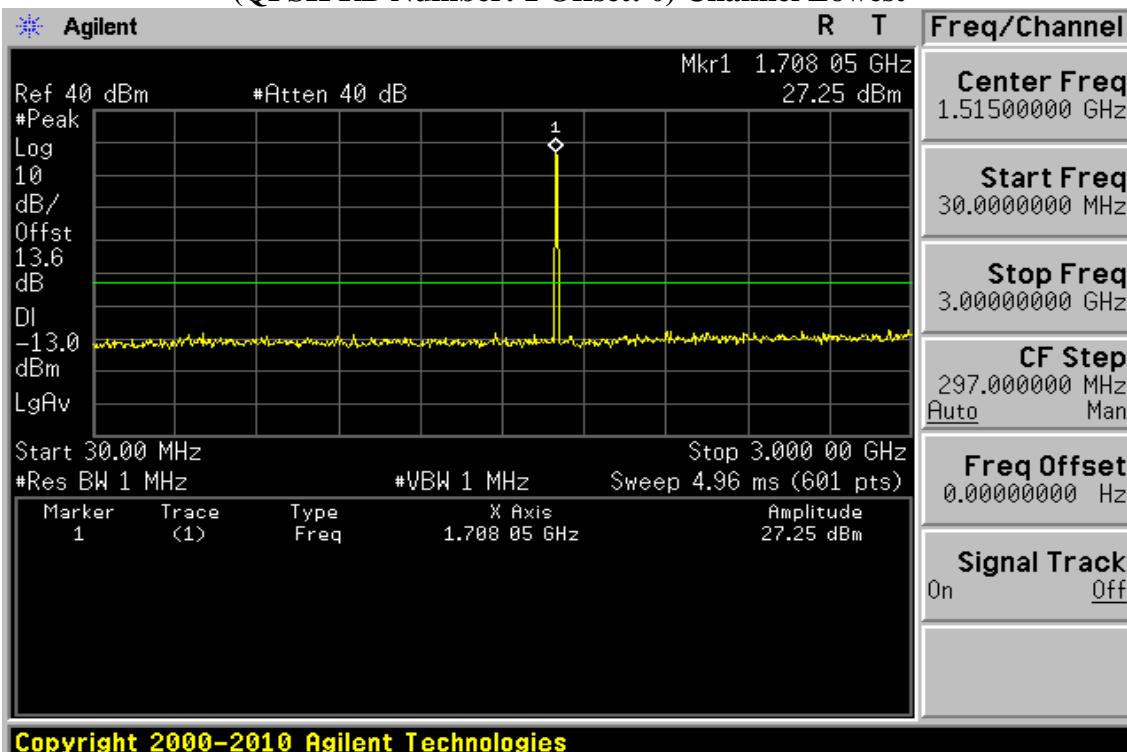
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Figure 10-151: Out of Band emission at antenna terminals—1.4MHz BW LTE-Band 4
(QPSK RB Number: 1 Offset: 0) Channel Lowest

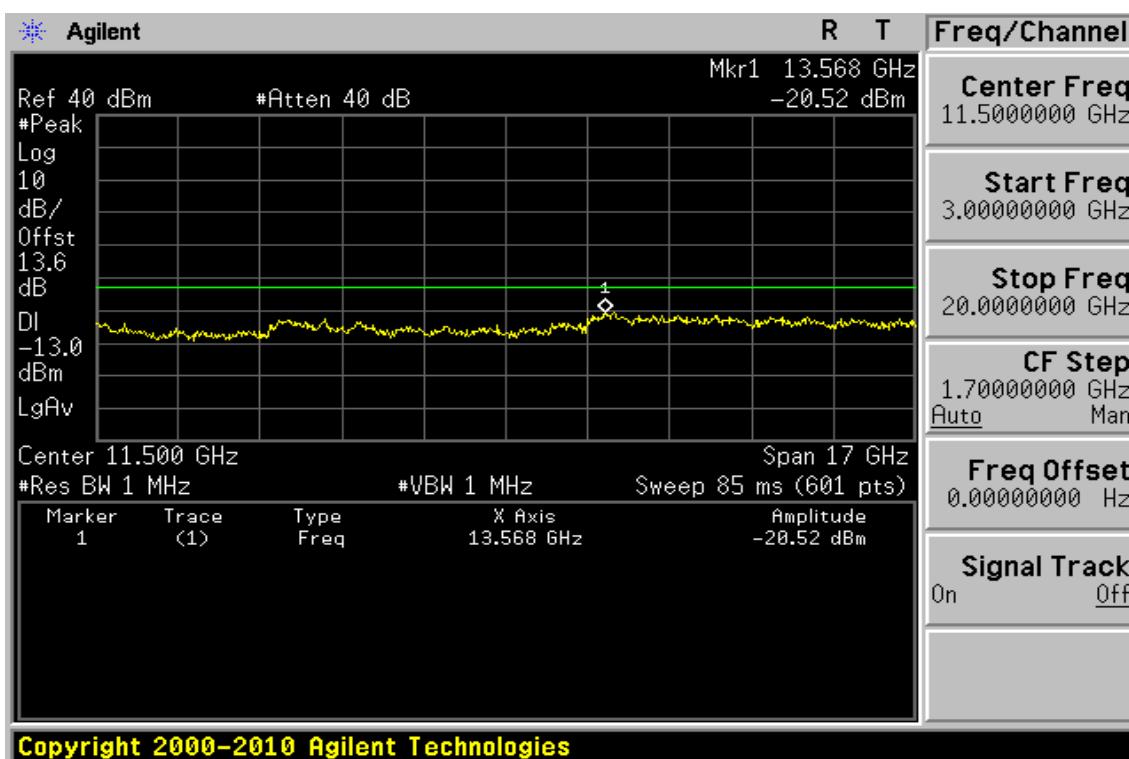
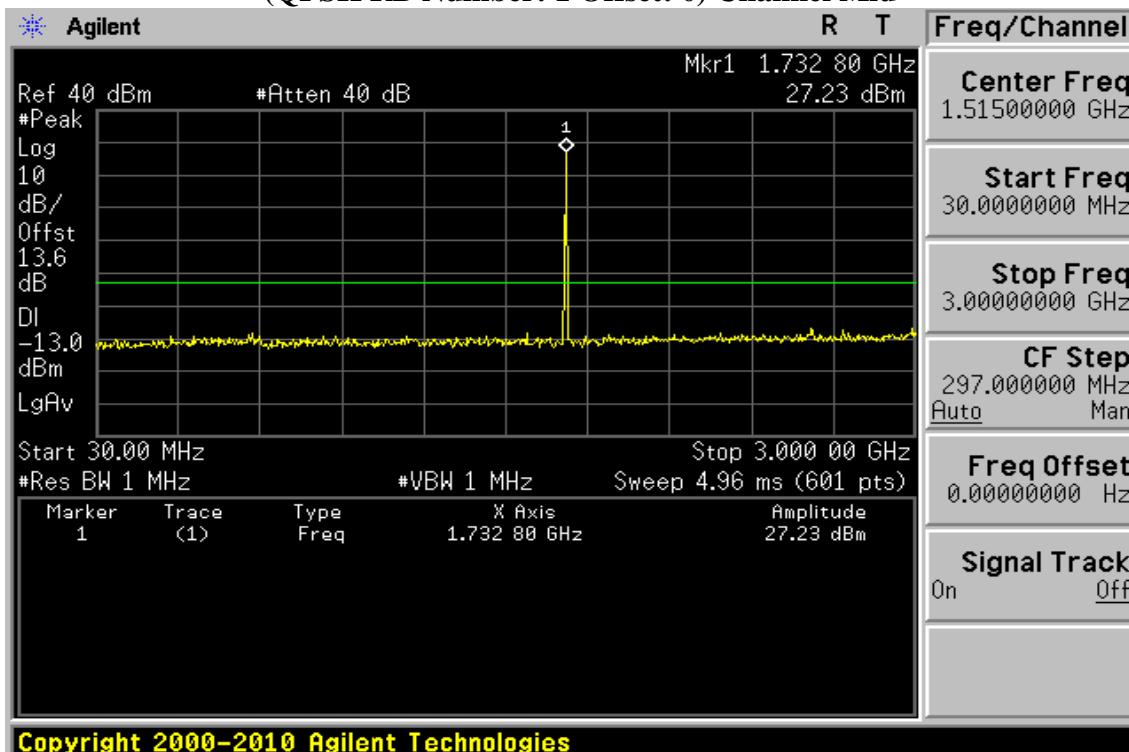


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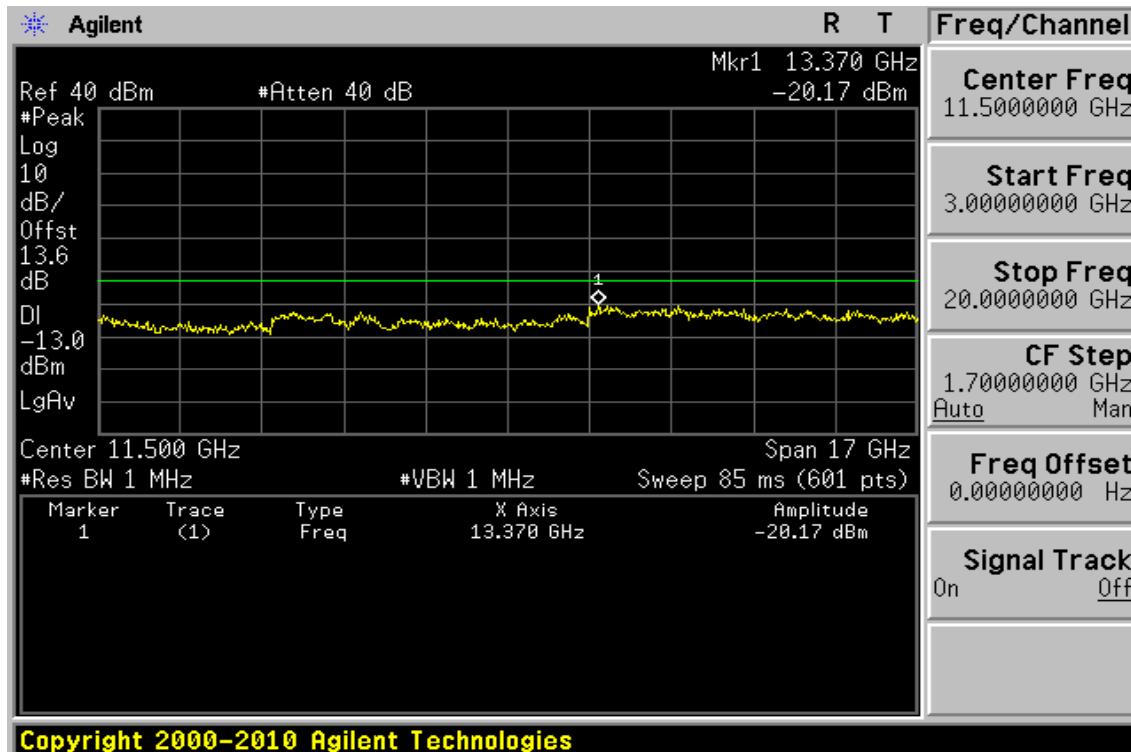
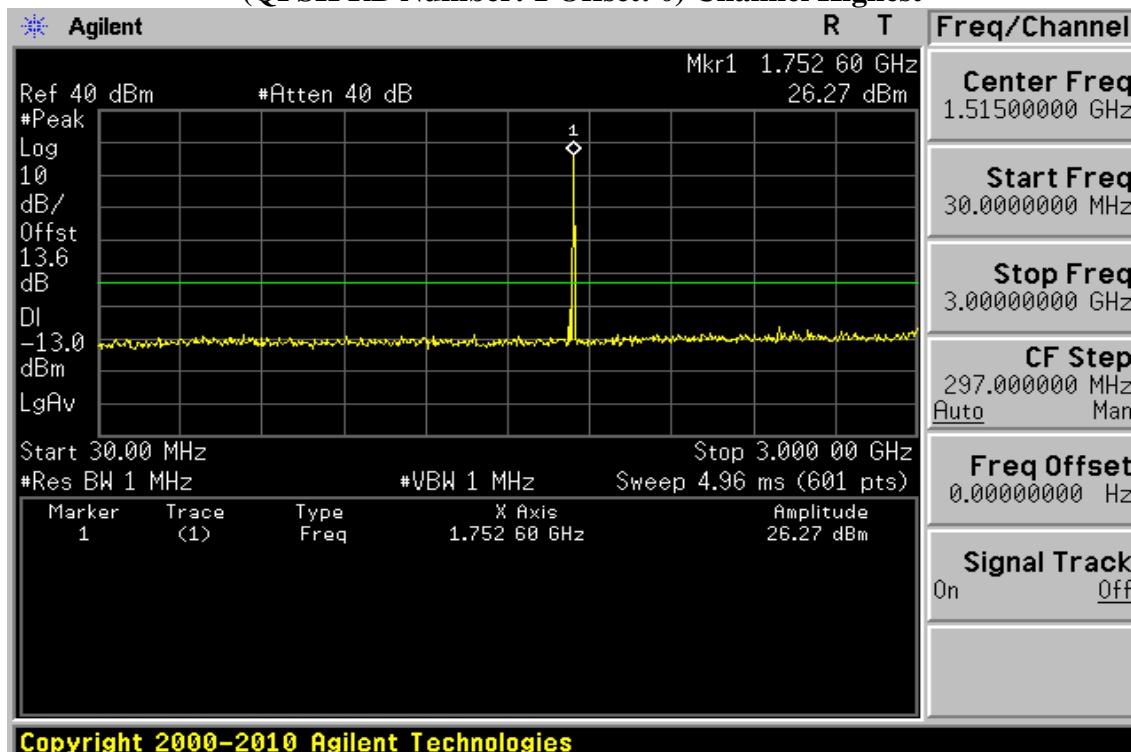
**Figure 10-152: Out of Band emission at antenna terminals –1.4MHz BW LTE-Band 4
(QPSK RB Number: 1 Offset: 0) Channel Mid**



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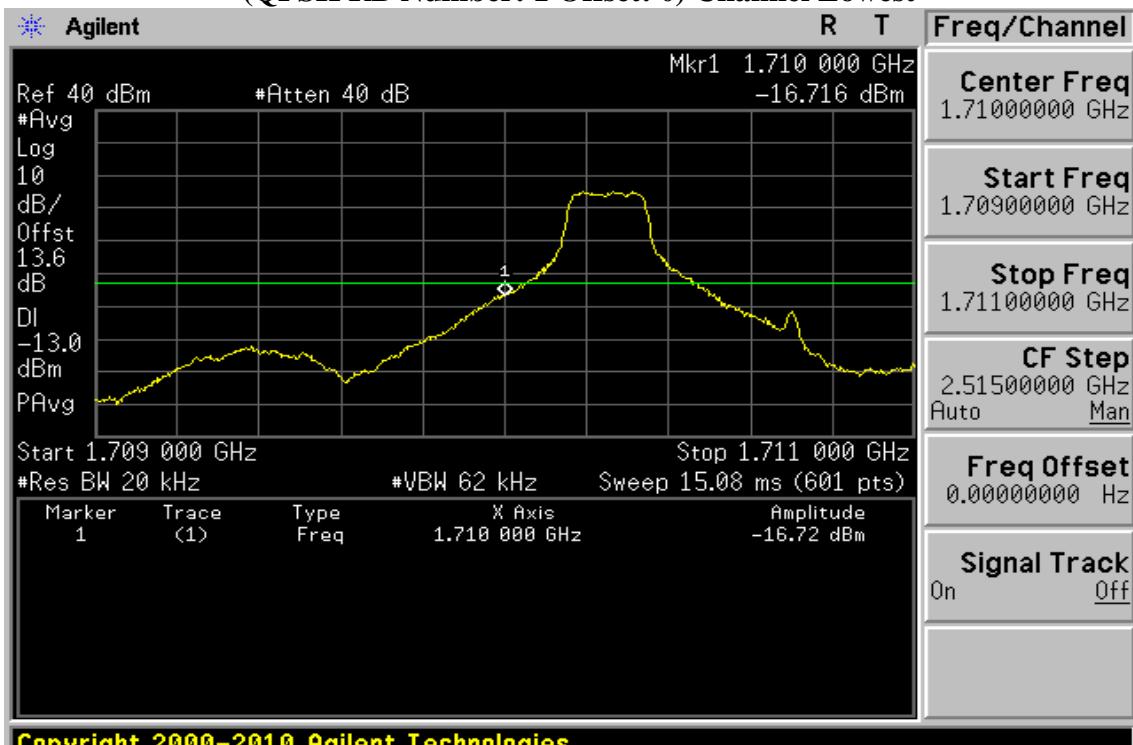
Figure 10-153: Out of Band emission at antenna terminals—1.4MHz BW LTE-Band 4
(QPSK RB Number: 1 Offset: 0) Channel Highest

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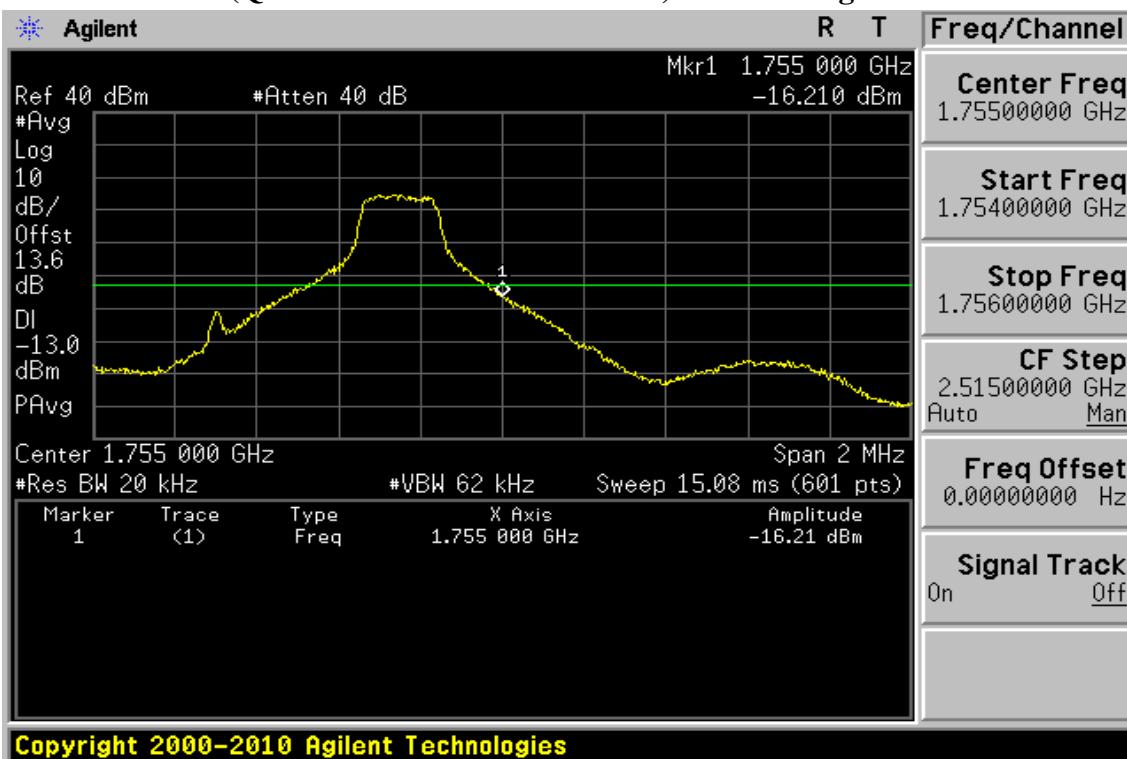
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Figure 10-154: Band edge emission at antenna terminals –1.4MHz BW LTE-Band 4
(QPSK RB Number: 1 Offset: 0) Channel Lowest



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Figure 10-155: Band edge emission at antenna terminals –1.4MHz BW LTE-Band 4
(QPSK RB Number: 1 Offset: 5) Channel Highest



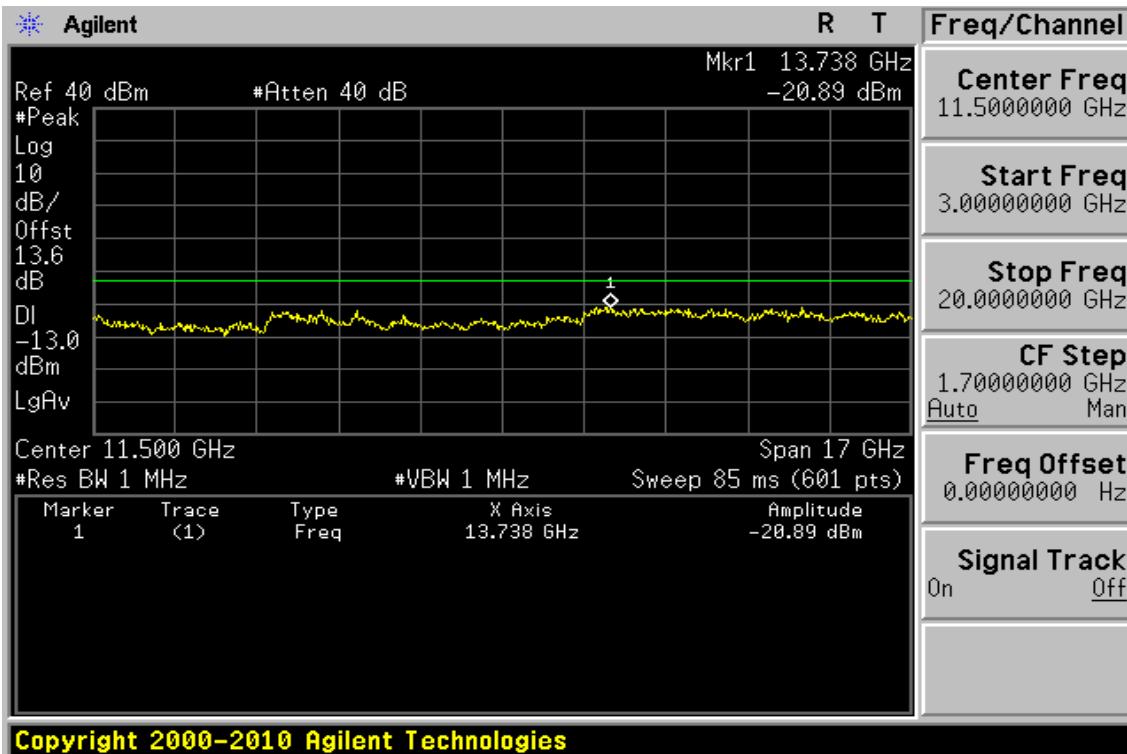
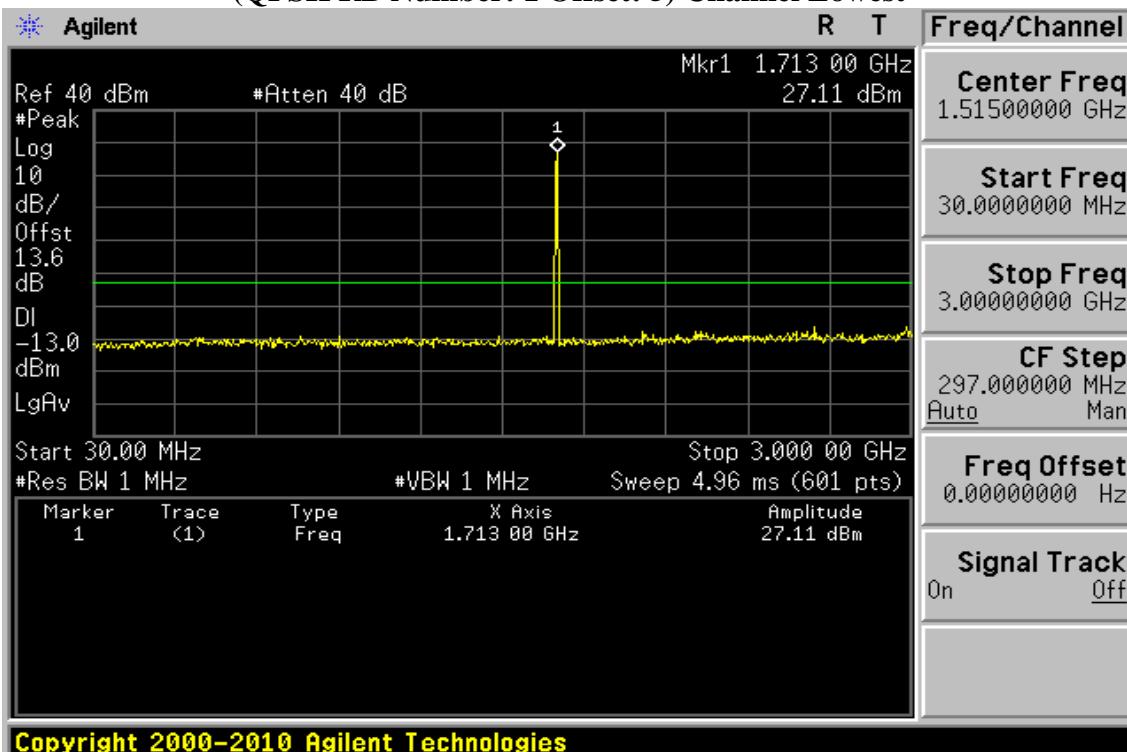
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Figure 10-156: Out of Band emission at antenna terminals—1.4MHz BW LTE-Band 4
(QPSK RB Number: 1 Offset: 5) Channel Lowest

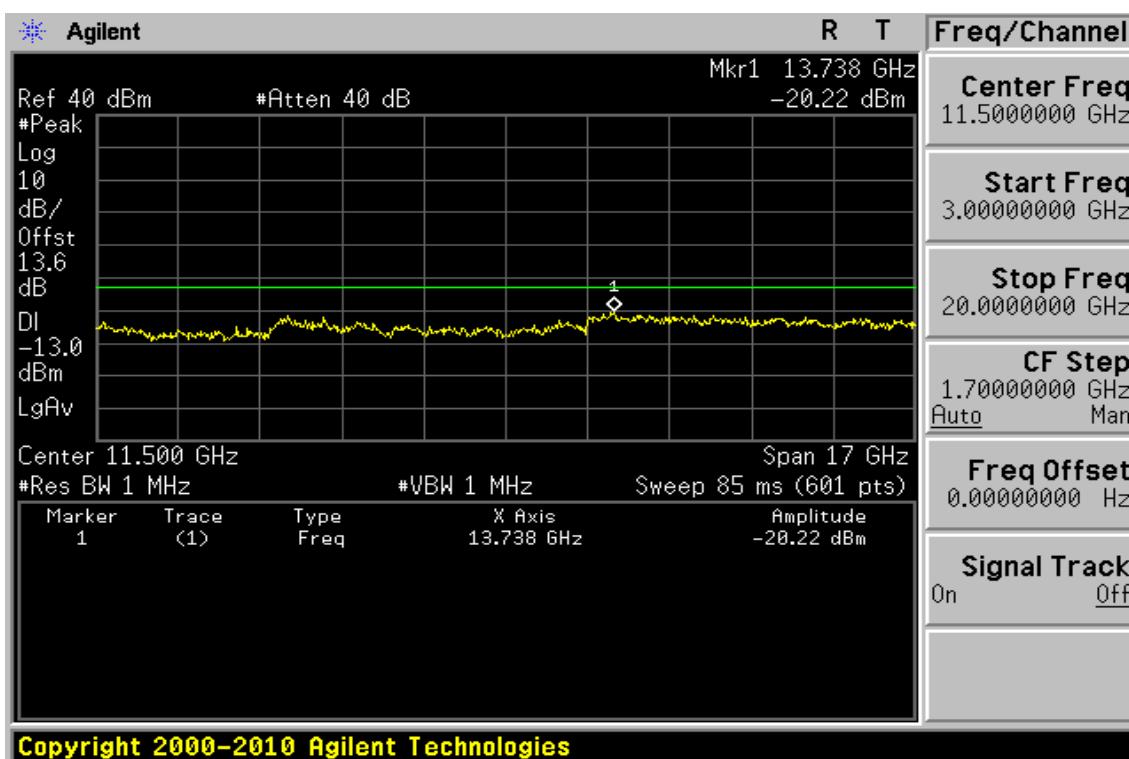
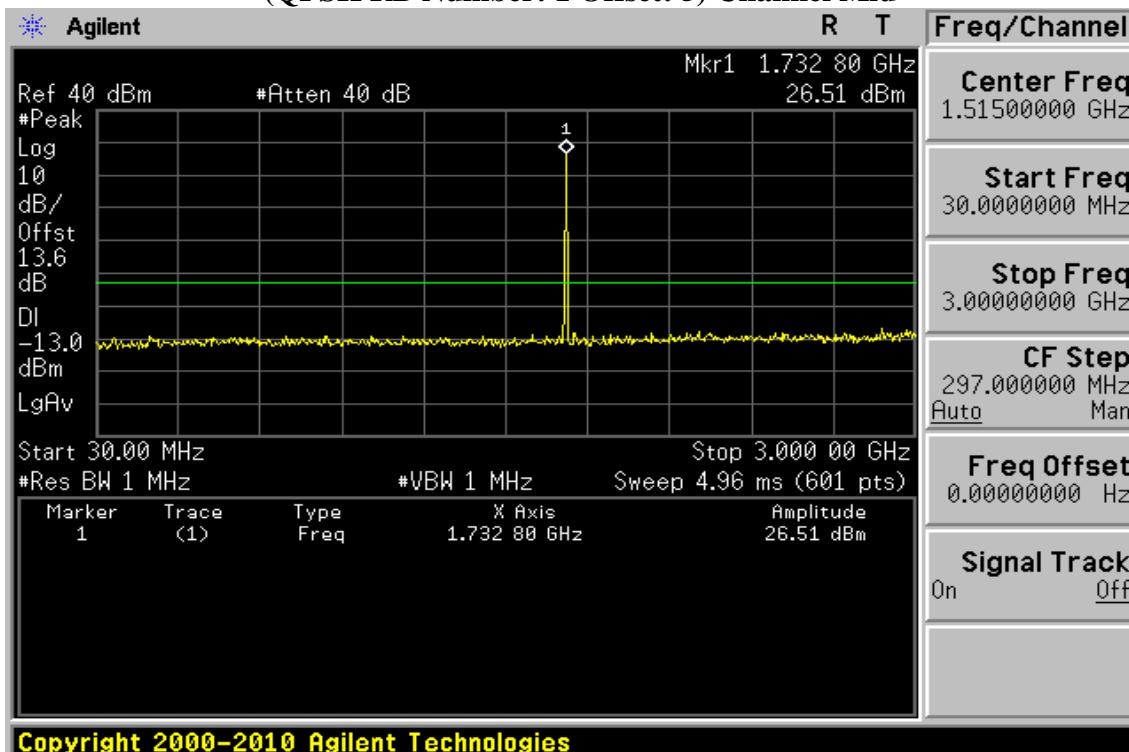


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**Figure 10-157: Out of Band emission at antenna terminals –1.4MHz BW LTE-Band 4
(QPSK RB Number: 1 Offset: 5) Channel Mid**

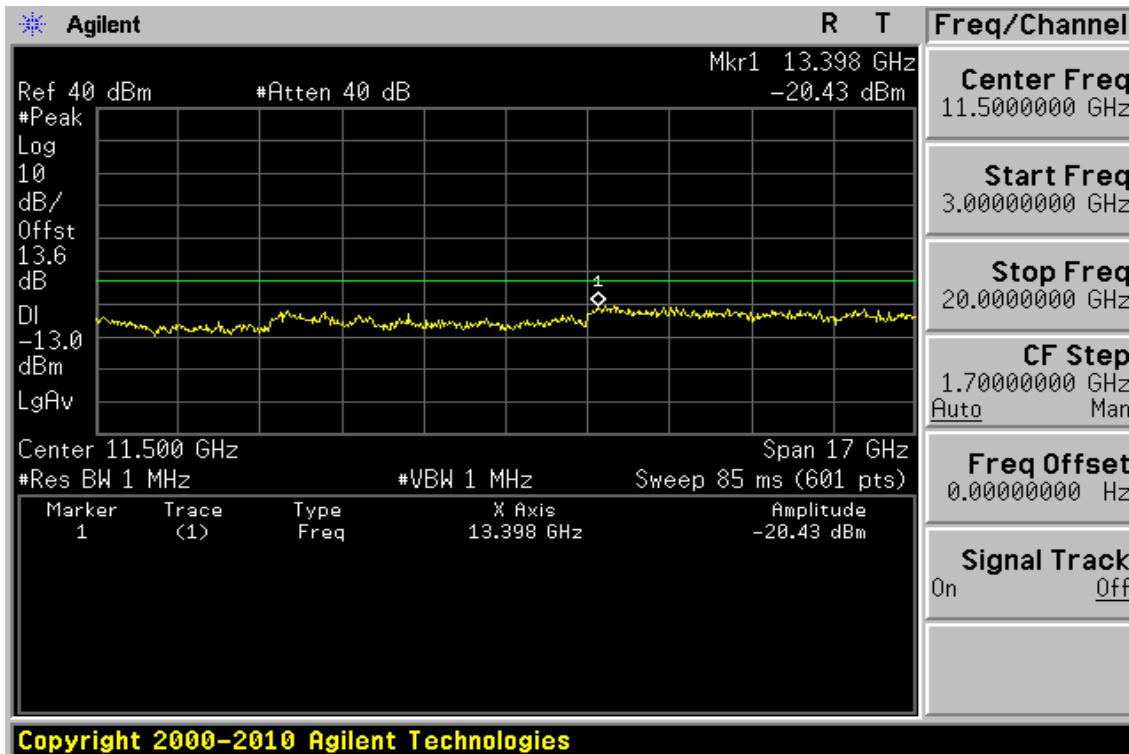
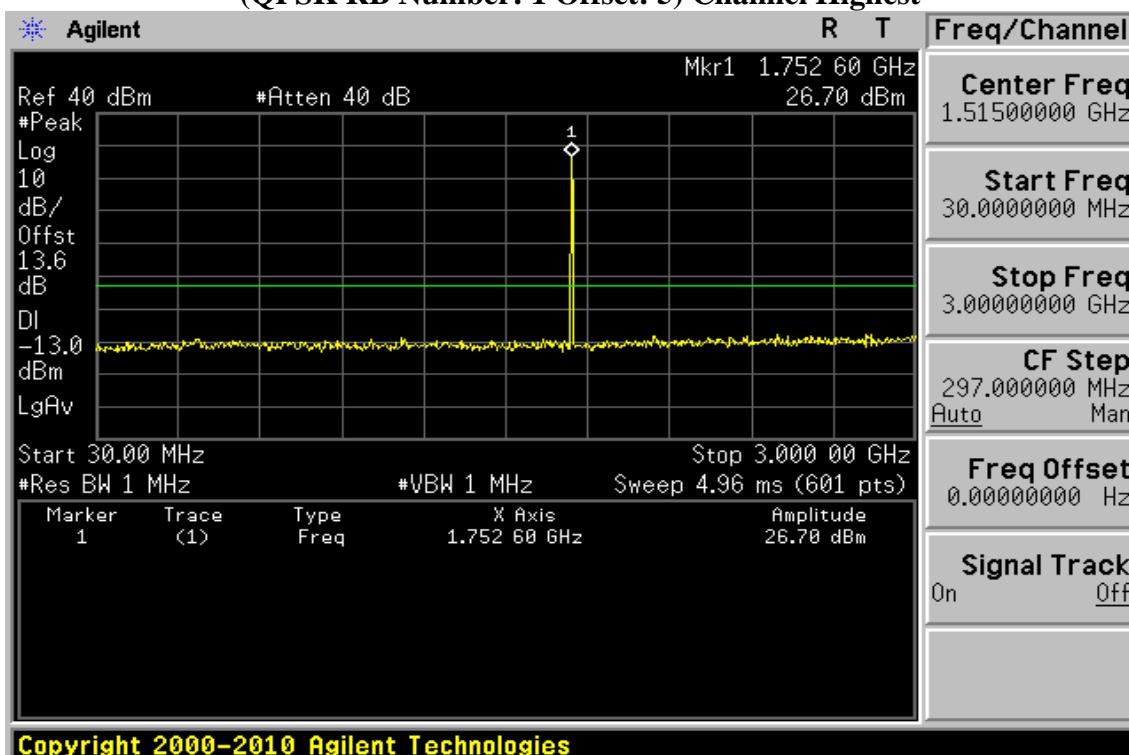


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Figure 10-158: Out of Band emission at antenna terminals—1.4MHz BW LTE-Band 4
(QPSK RB Number: 1 Offset: 5) Channel Highest

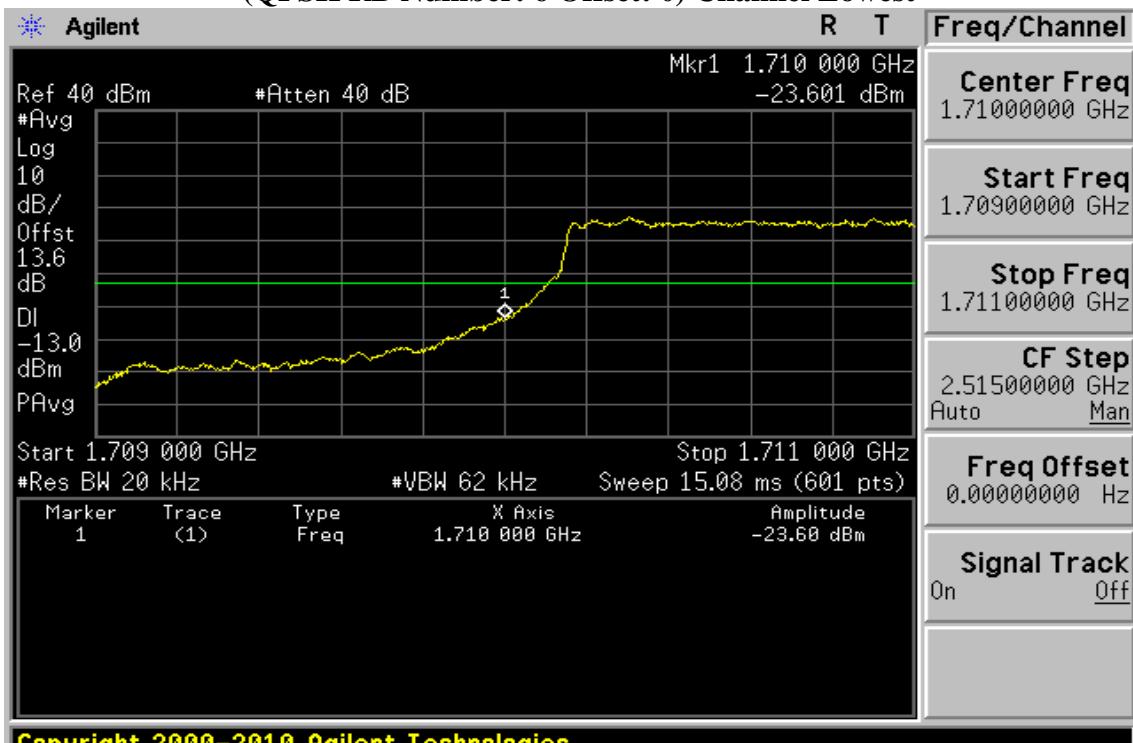


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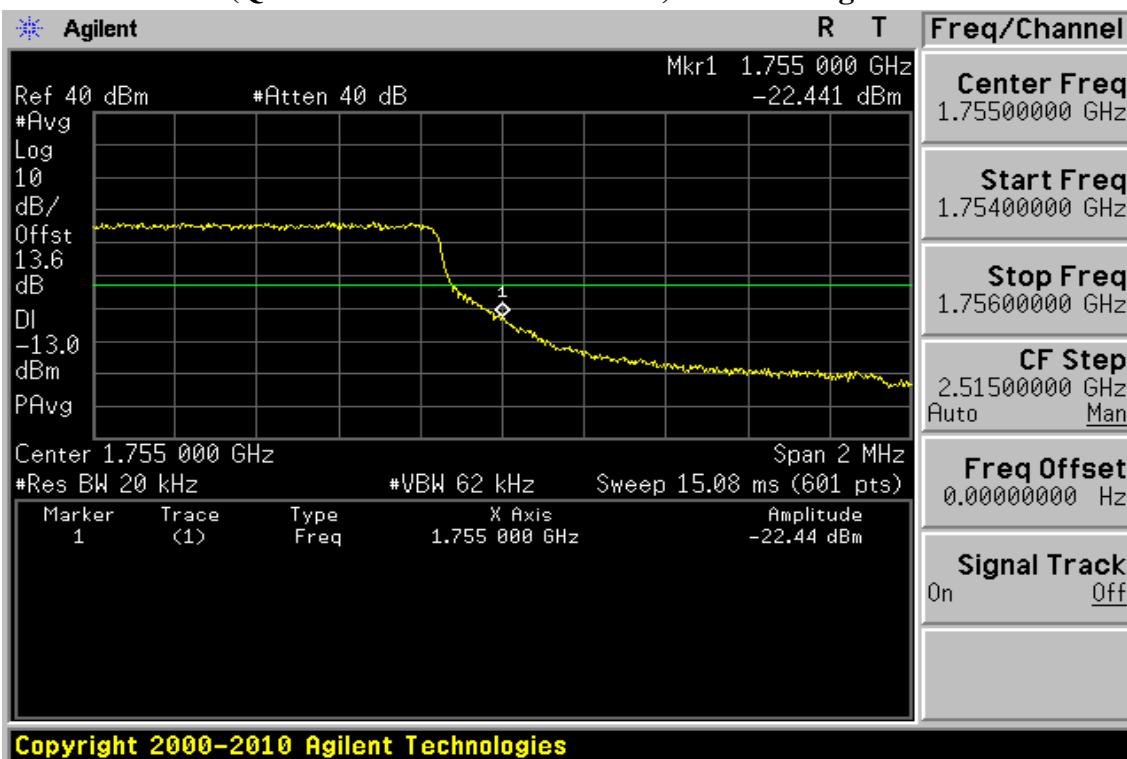
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**Figure 10-159: Band edge emission at antenna terminals –1.4MHz BW LTE-Band 4
(QPSK RB Number: 6 Offset: 0) Channel Lowest**



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**Figure 10-160: Band edge emission at antenna terminals –1.4MHz BW LTE-Band 4
(QPSK RB Number: 6 Offset: 0) Channel Highest**



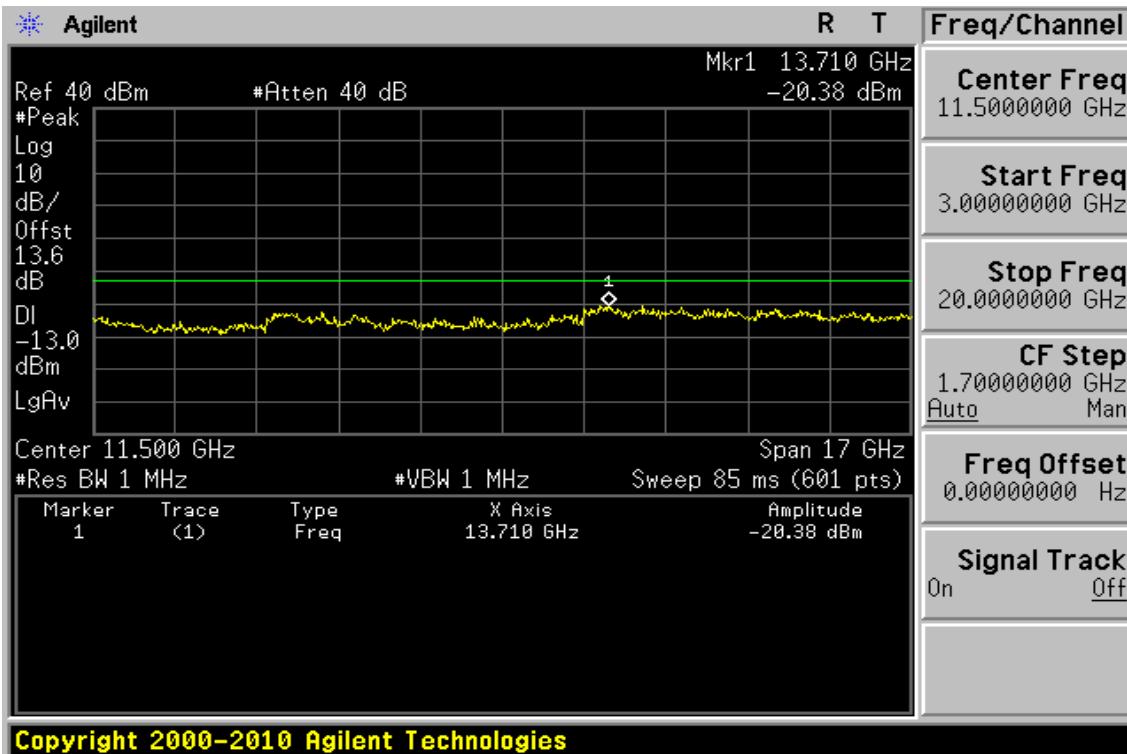
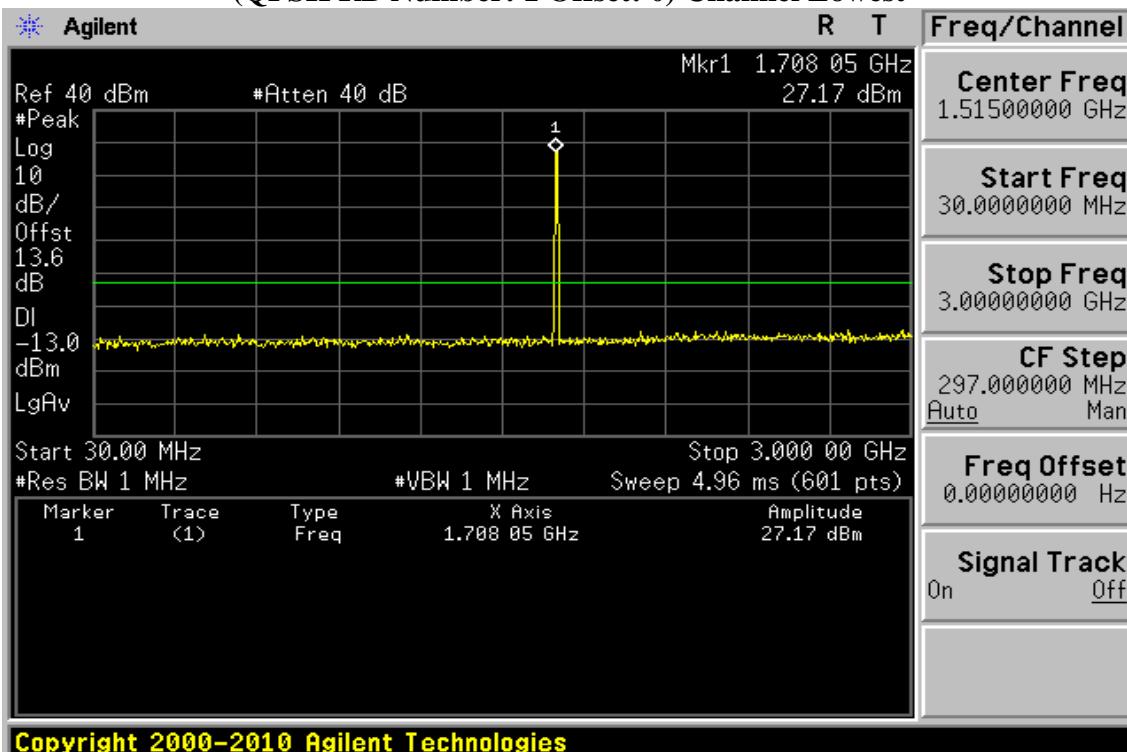
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**Figure 10-161: Out of Band emission at antenna terminals–3MHz BW LTE-Band 4
(QPSK RB Number: 1 Offset: 0) Channel Lowest**

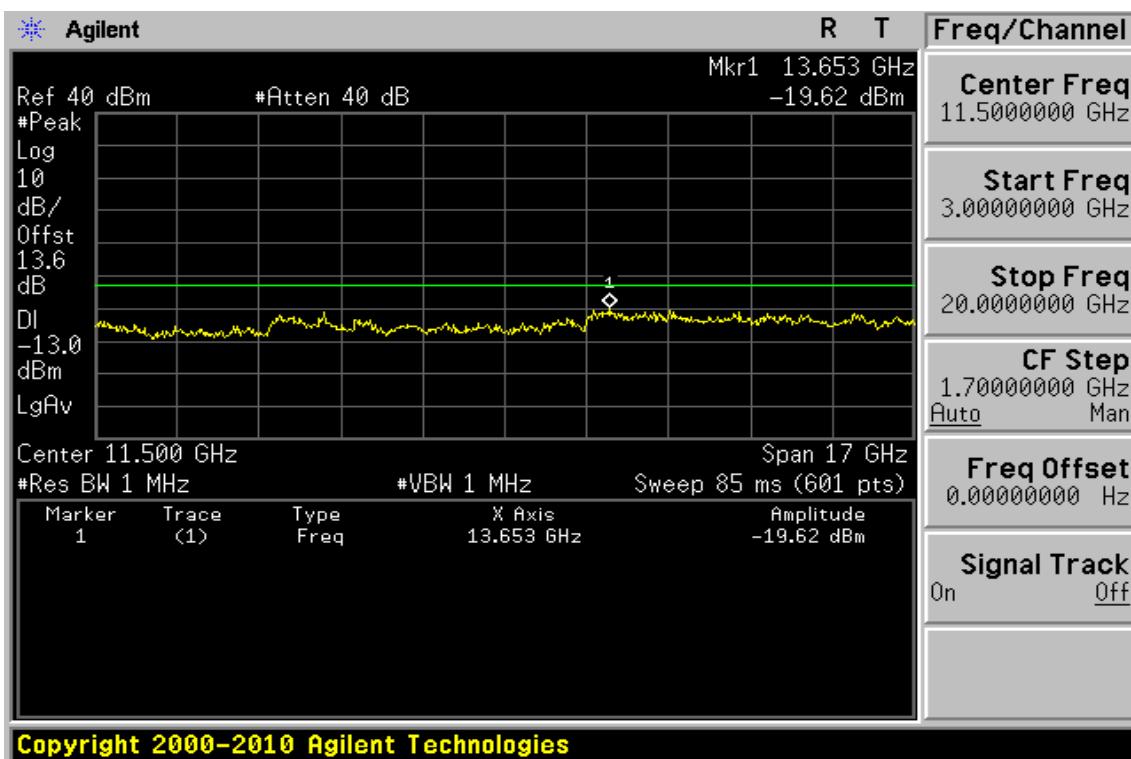
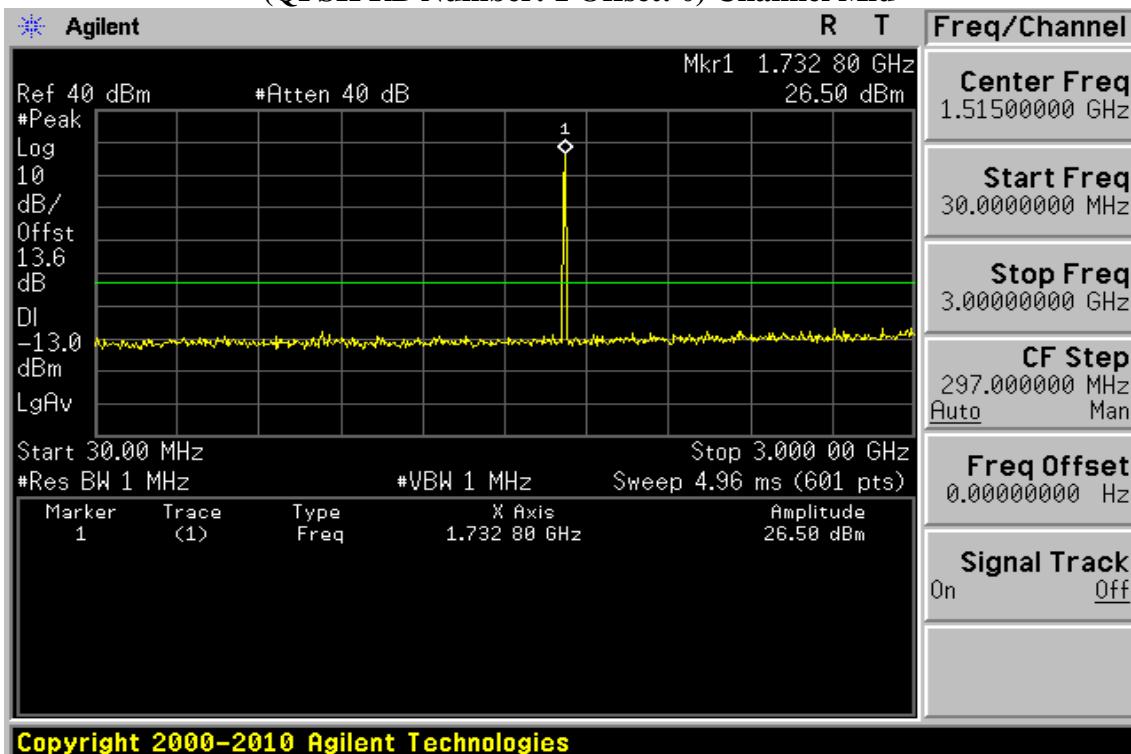


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Figure 10-162: Out of Band emission at antenna terminals –3MHz BW LTE-Band 4
(QPSK RB Number: 1 Offset: 0) Channel Mid

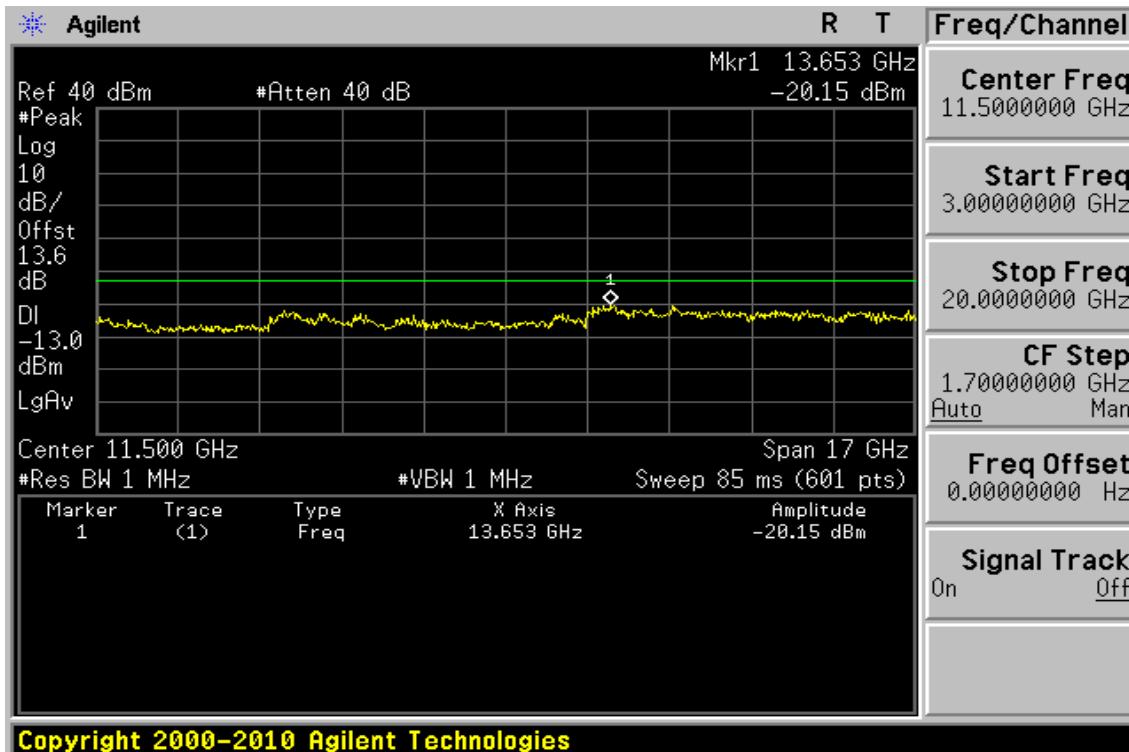
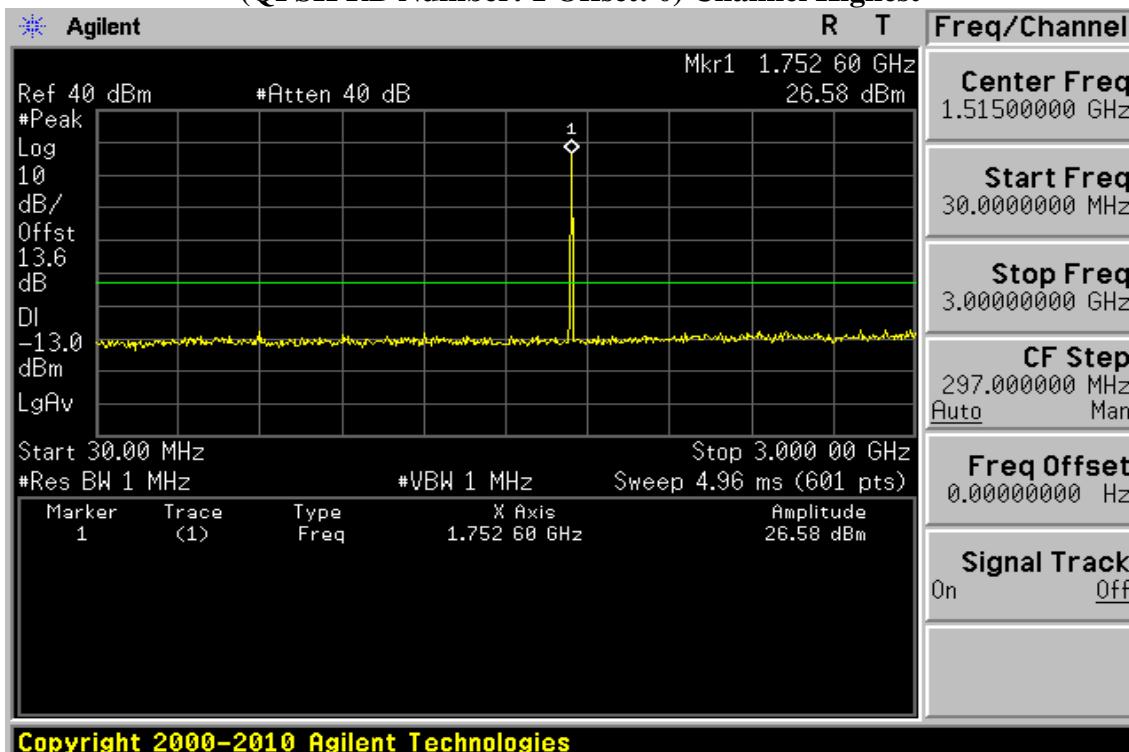


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**Figure 10-163: Out of Band emission at antenna terminals–3MHz BW LTE-Band 4
(QPSK RB Number: 1 Offset: 0) Channel Highest**

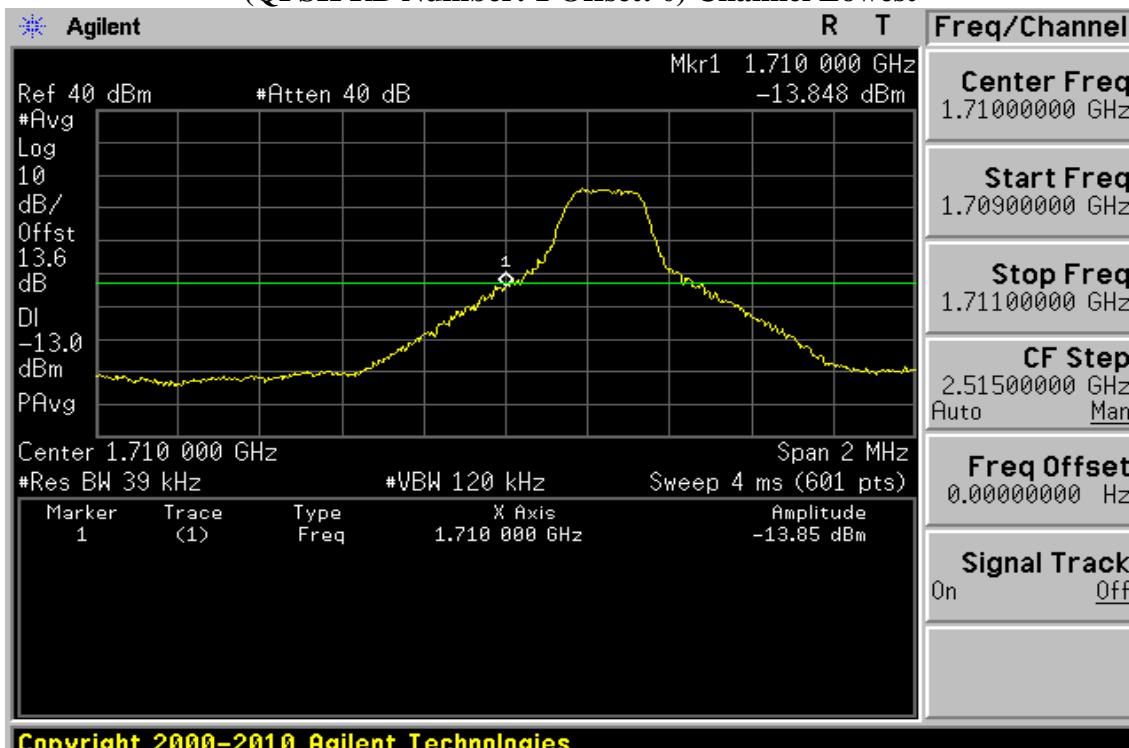


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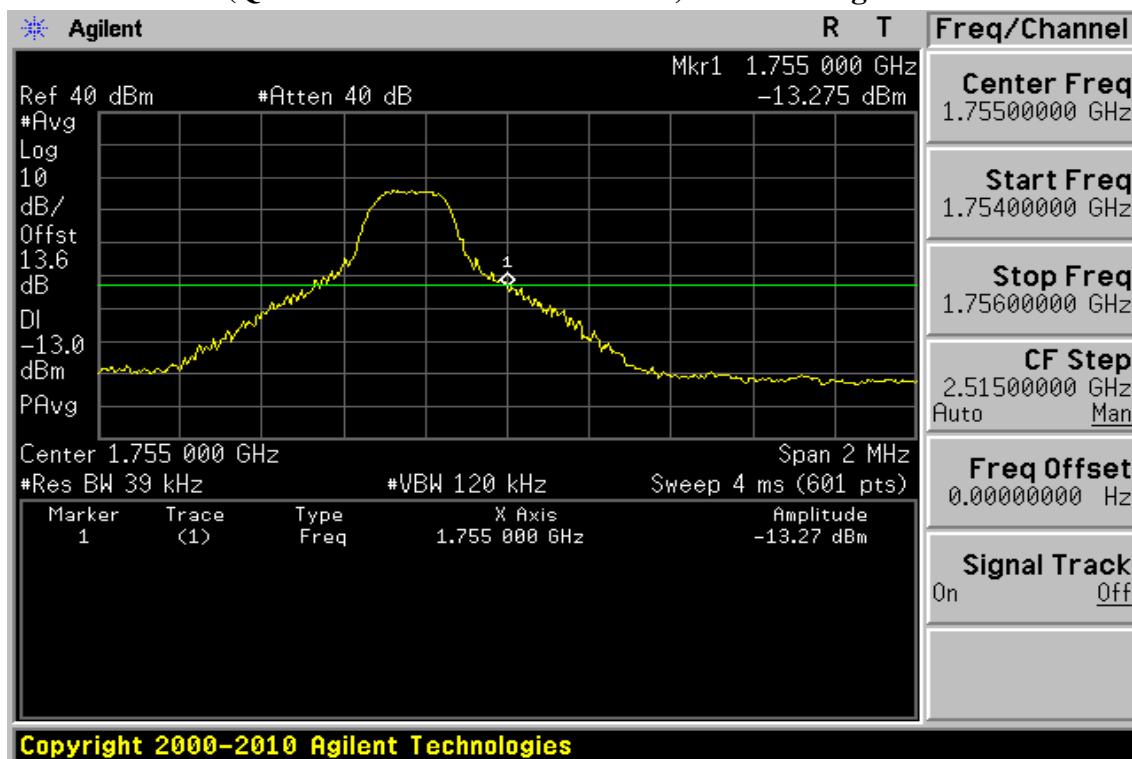
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**Figure 10-164: Band edge emission at antenna terminals –3MHz BW LTE-Band 4
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



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**Figure 10-165: Band edge emission at antenna terminals –3MHz BW LTE-Band 4
(QPSK RB Number: 1 Offset: 14) Channel Highest**



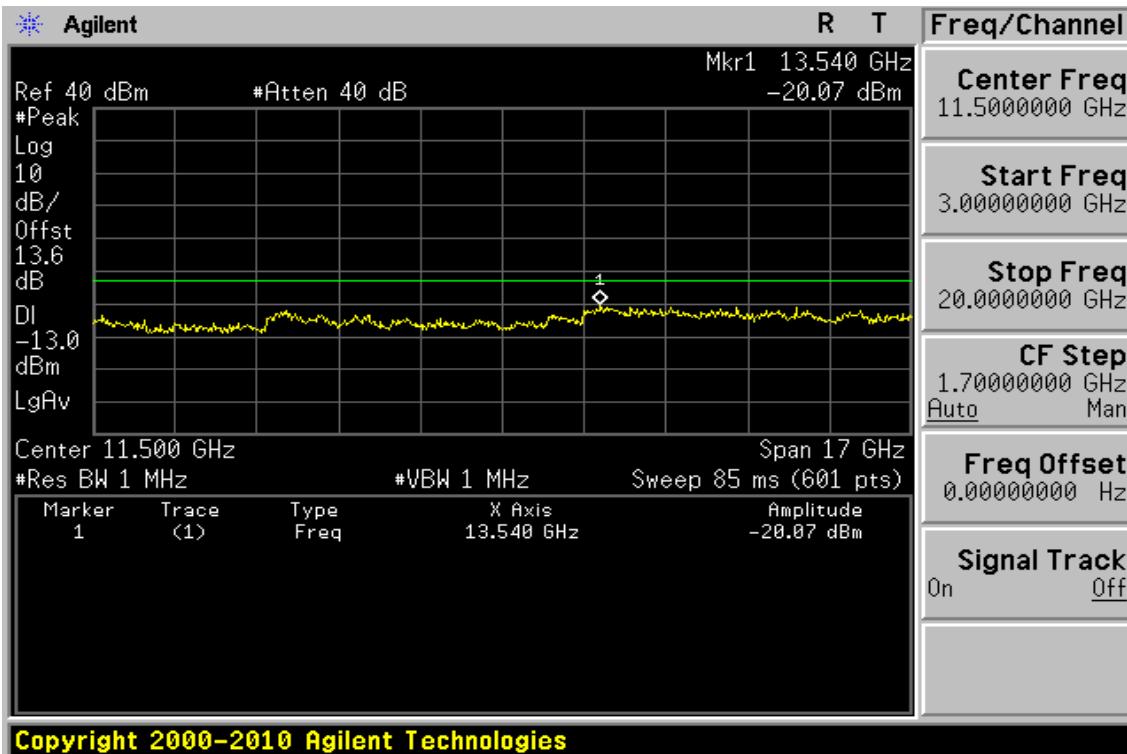
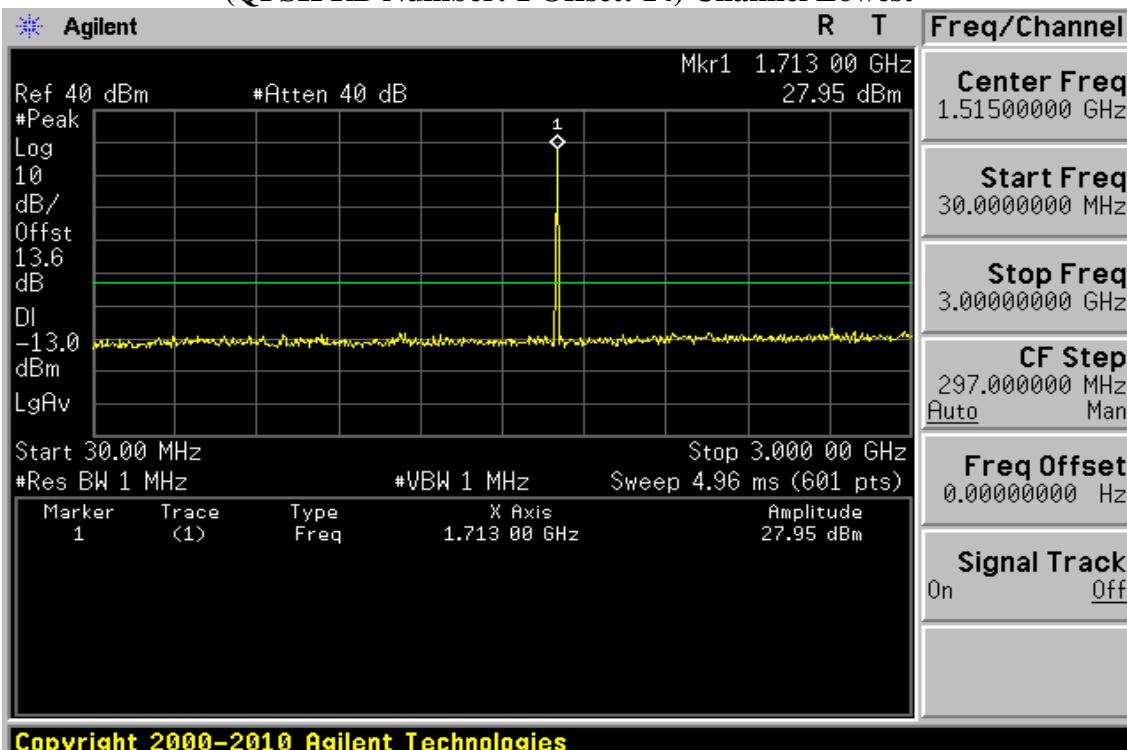
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**Figure 10-166: Out of Band emission at antenna terminals–3MHz BW LTE-Band 4
(QPSK RB Number: 1 Offset: 14) Channel Lowest**

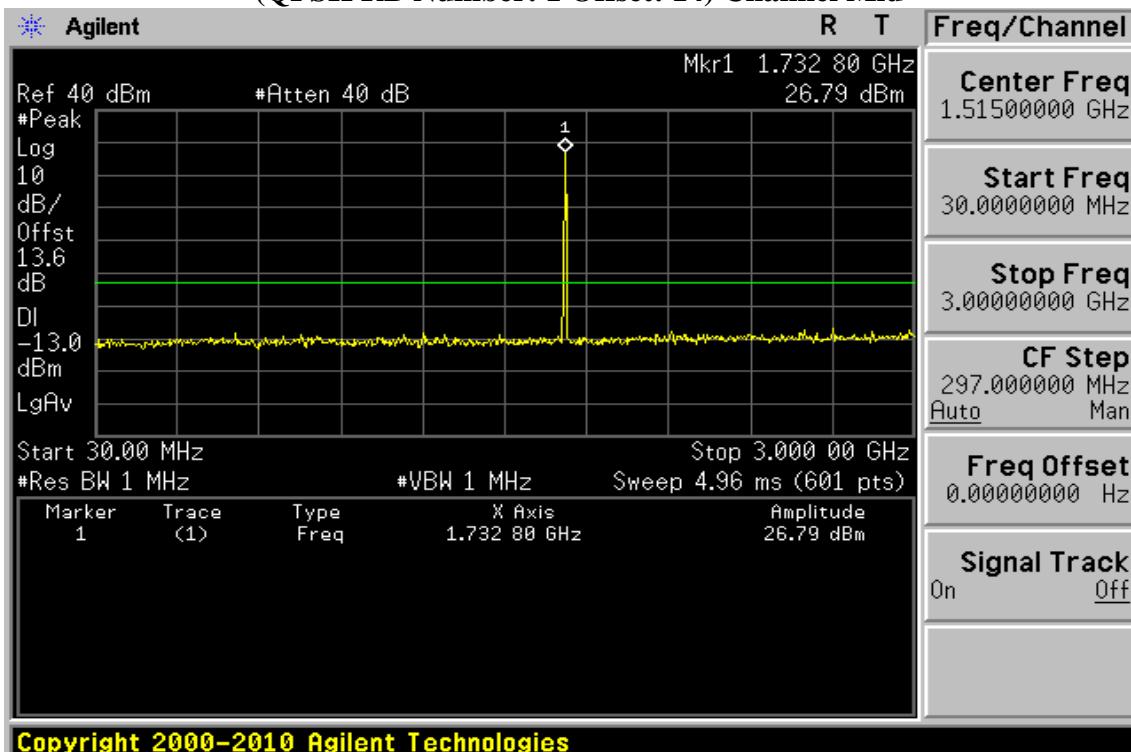


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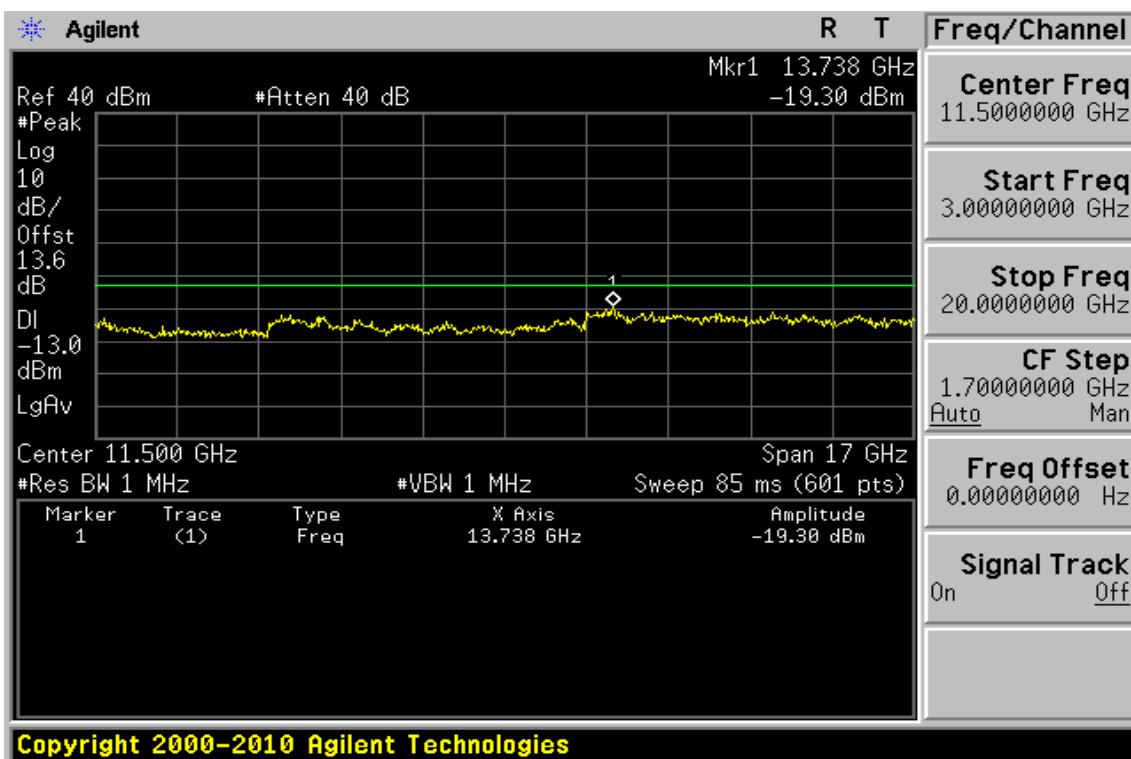
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Figure 10-167: Out of Band emission at antenna terminals –3MHz BW LTE-Band 4
(QPSK RB Number: 1 Offset: 14) Channel Mid



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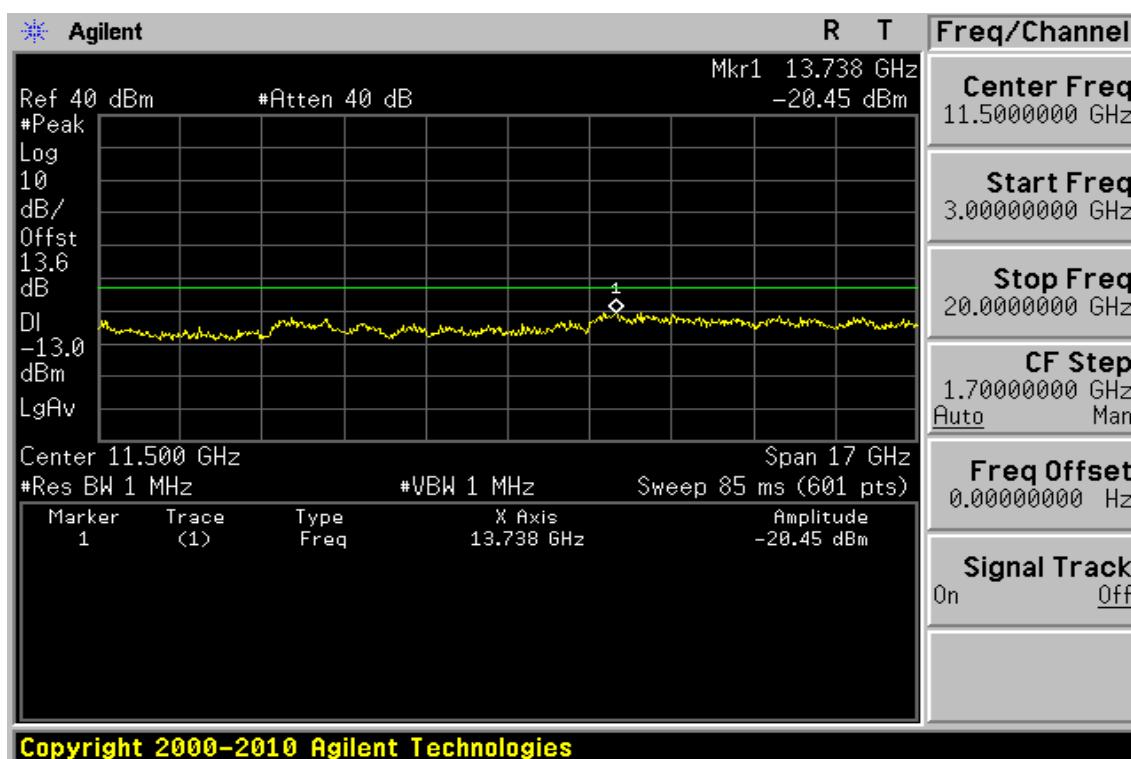
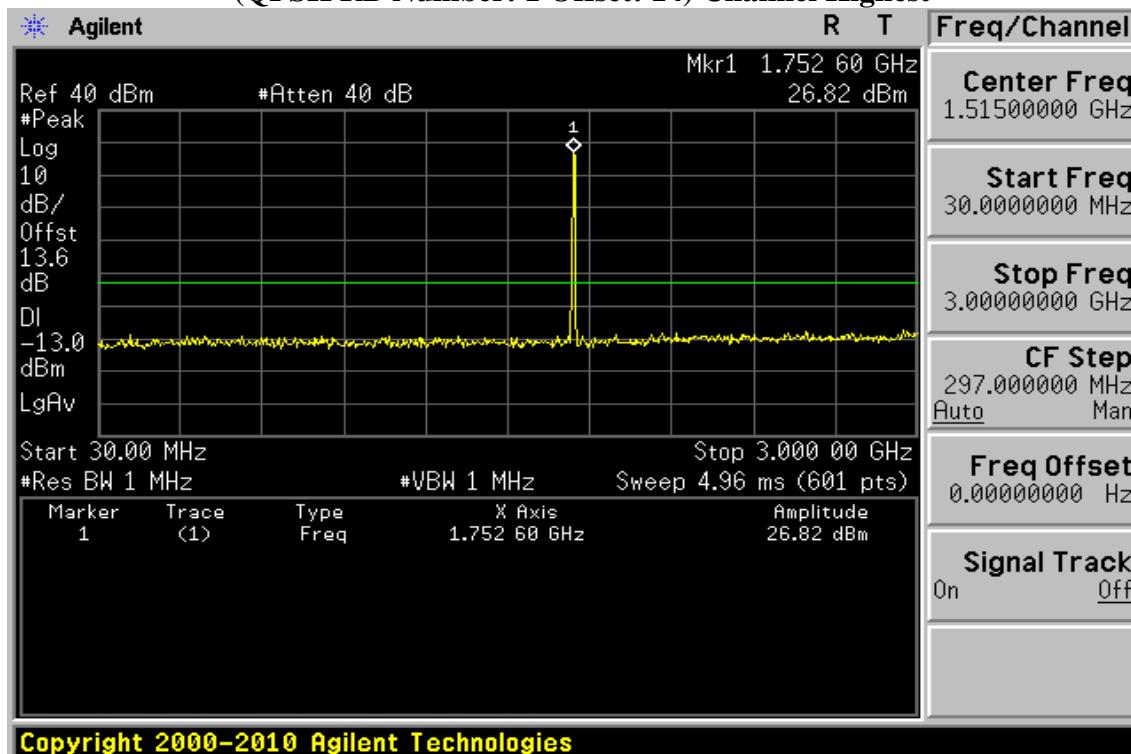
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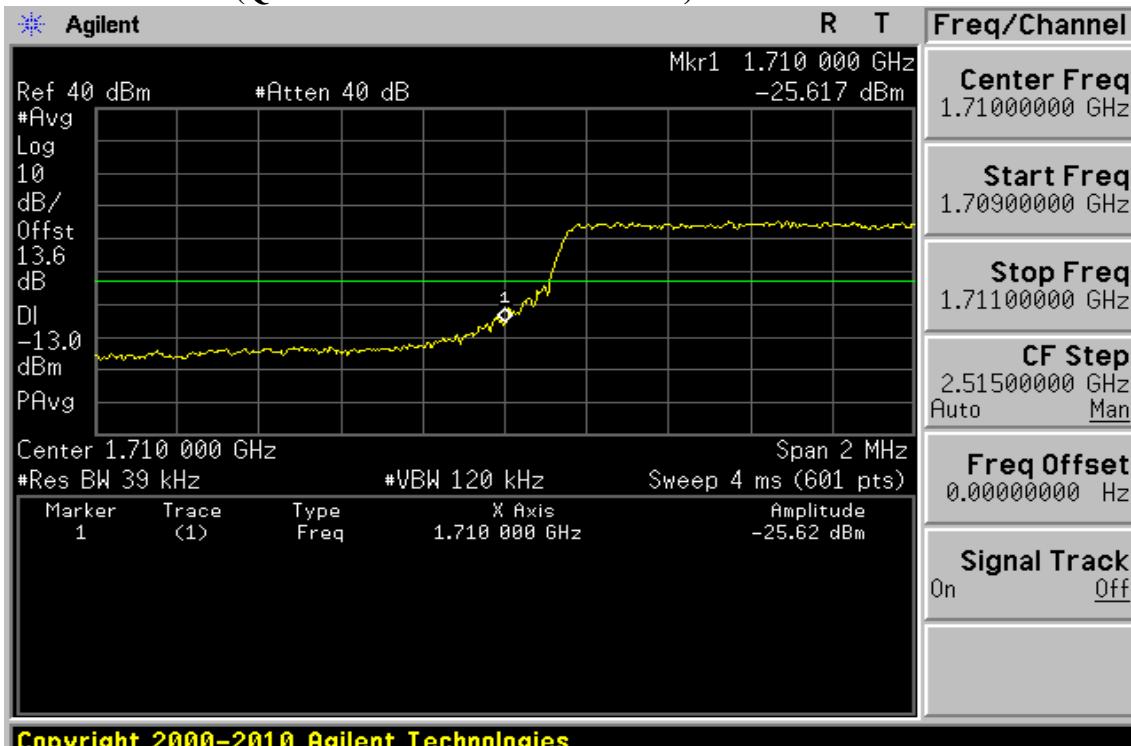
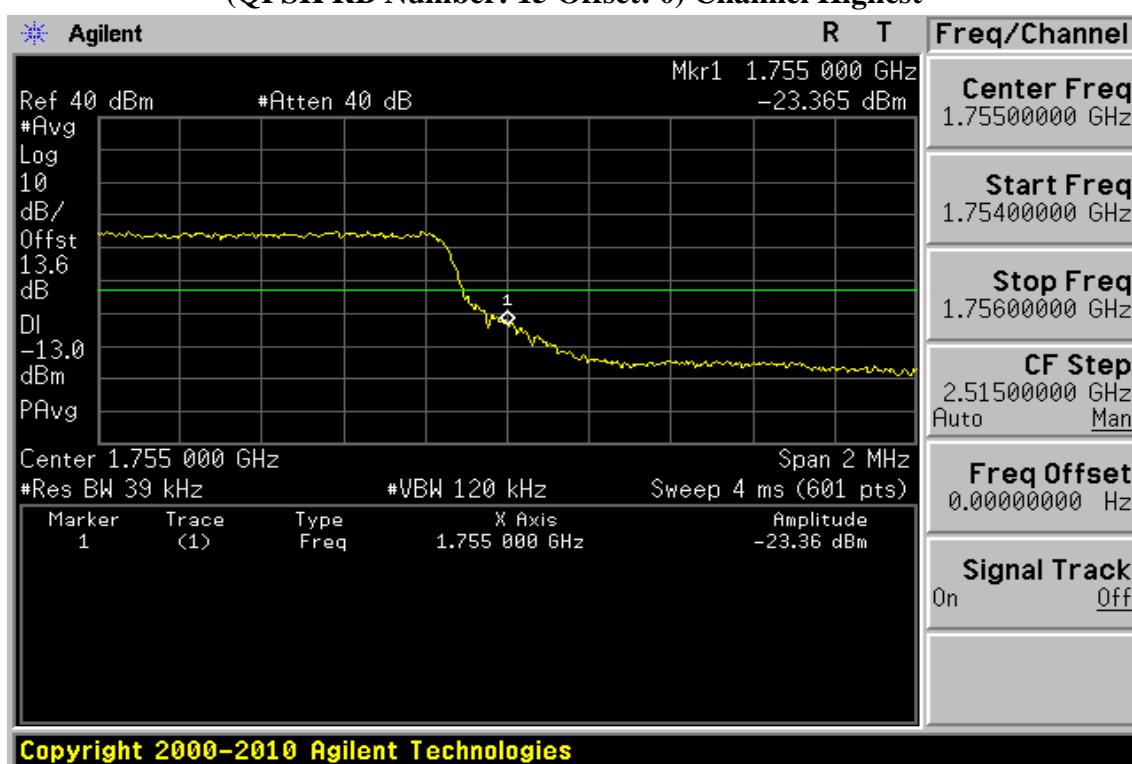
Figure 10-168: Out of Band emission at antenna terminals–3MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 14) Channel Highest



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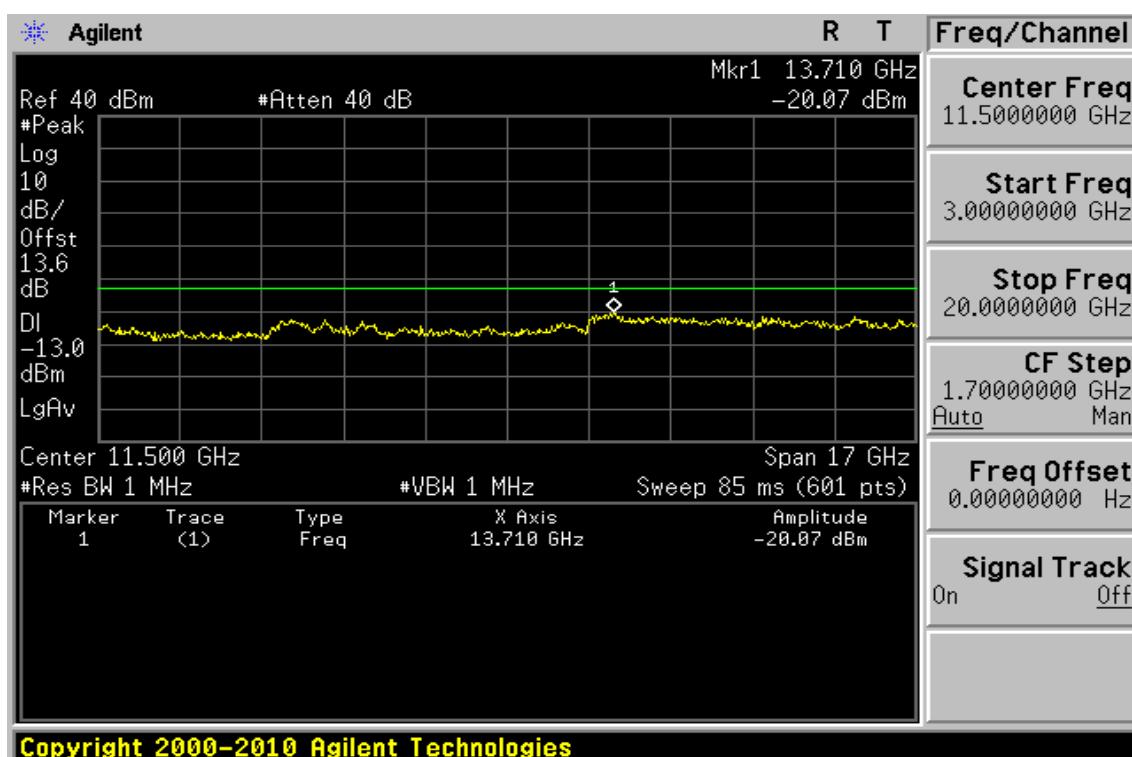
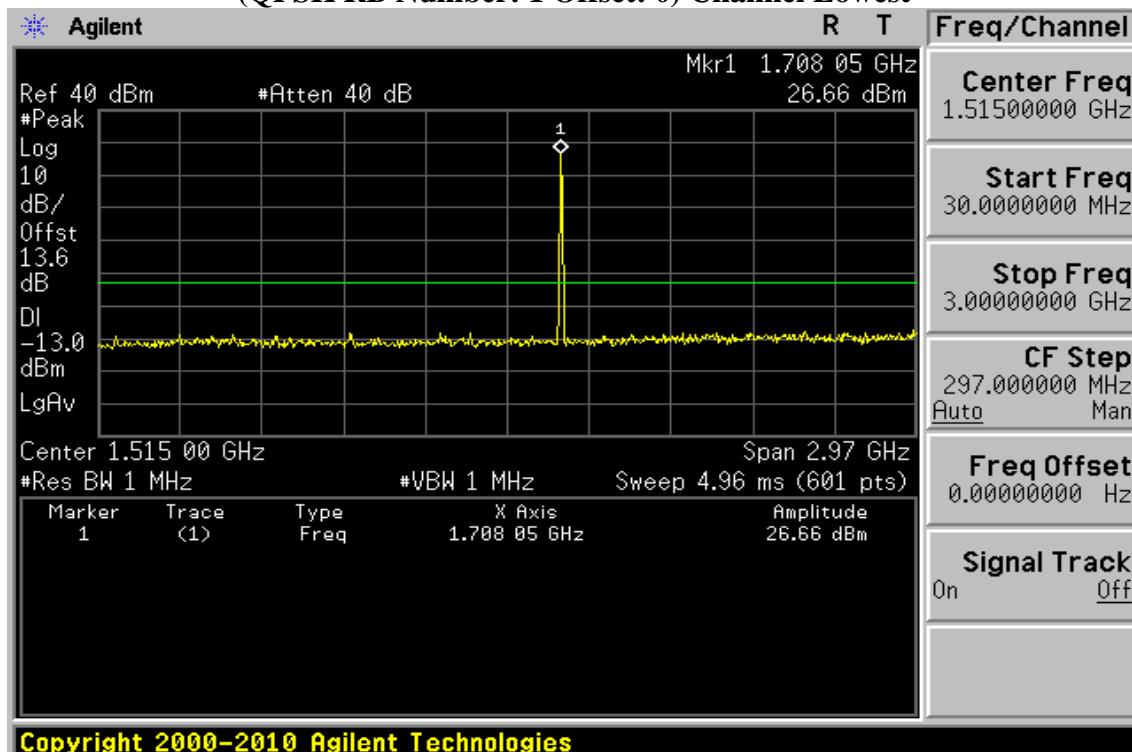
Figure 10-169: Band edge emission at antenna terminals –3MHz BW LTE-Band 4
(QPSK RB Number: 15 Offset: 0) Channel LowestFigure 10-170: Band edge emission at antenna terminals –3MHz BW LTE-Band 4
(QPSK RB Number: 15 Offset: 0) Channel Highest

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**Figure 10-171: Out of Band emission at antenna terminals—5MHz BW LTE-Band 4
(QPSK RB Number: 1 Offset: 0) Channel Lowest**

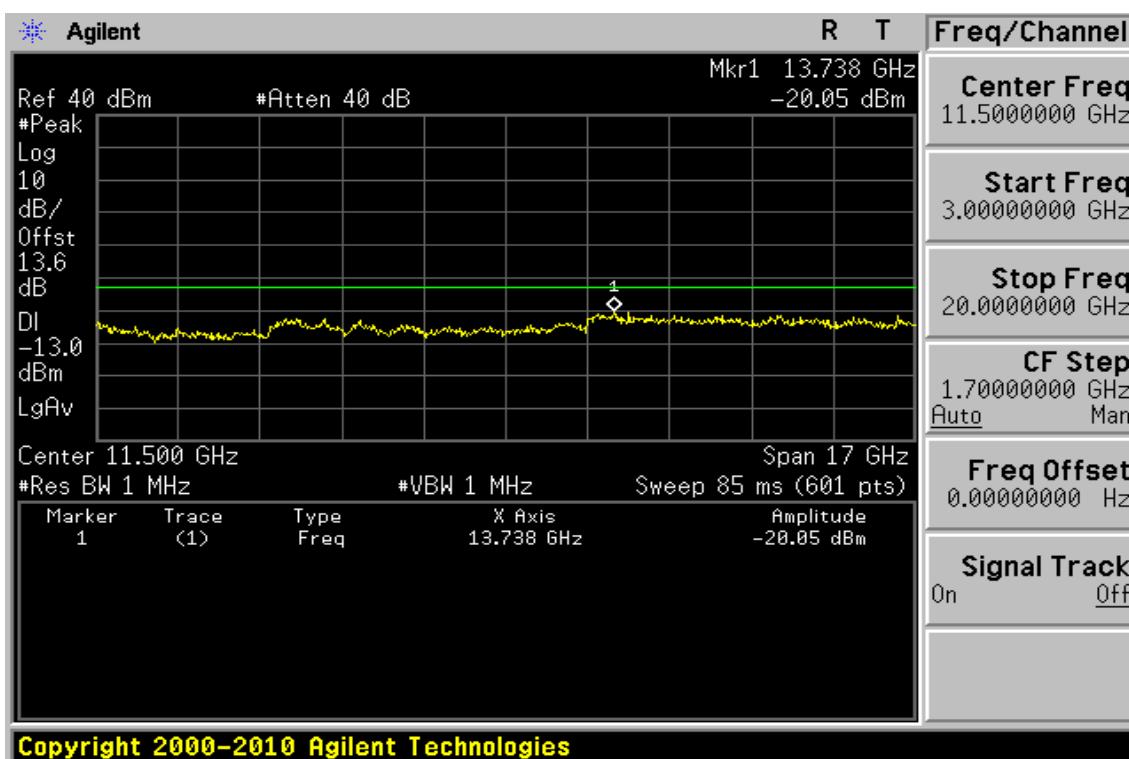
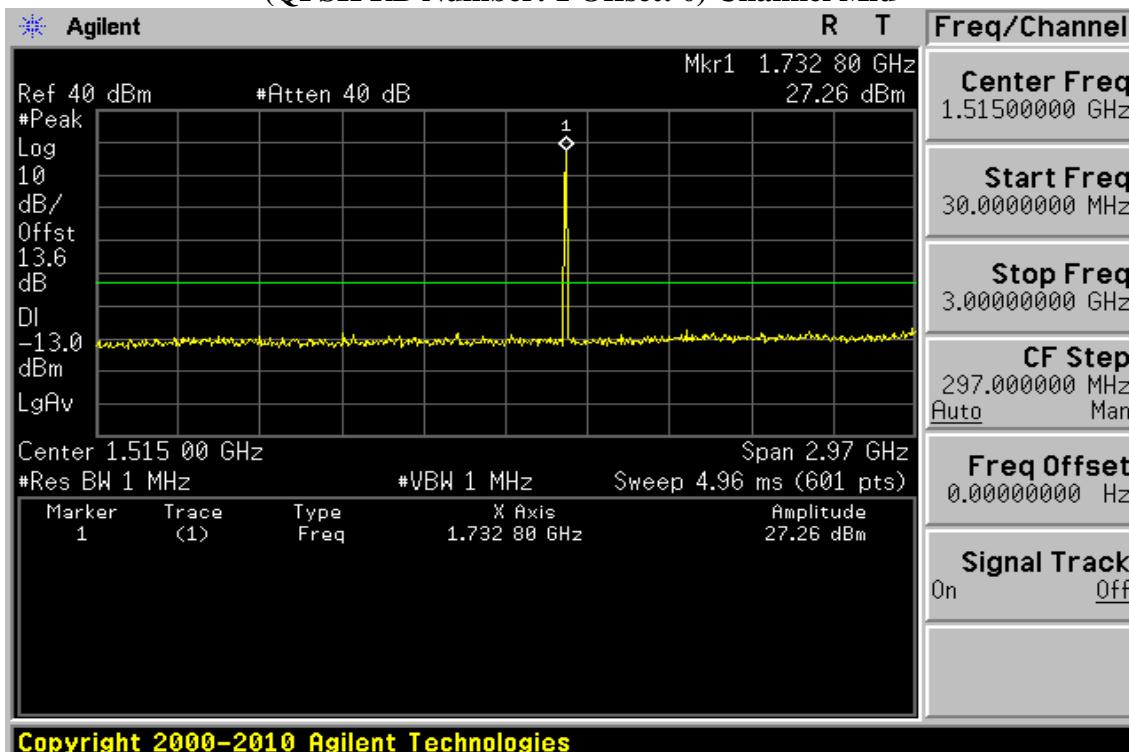


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Figure 10-172: Out of Band emission at antenna terminals –5MHz BW LTE-Band 4
(QPSK RB Number: 1 Offset: 0) Channel Mid

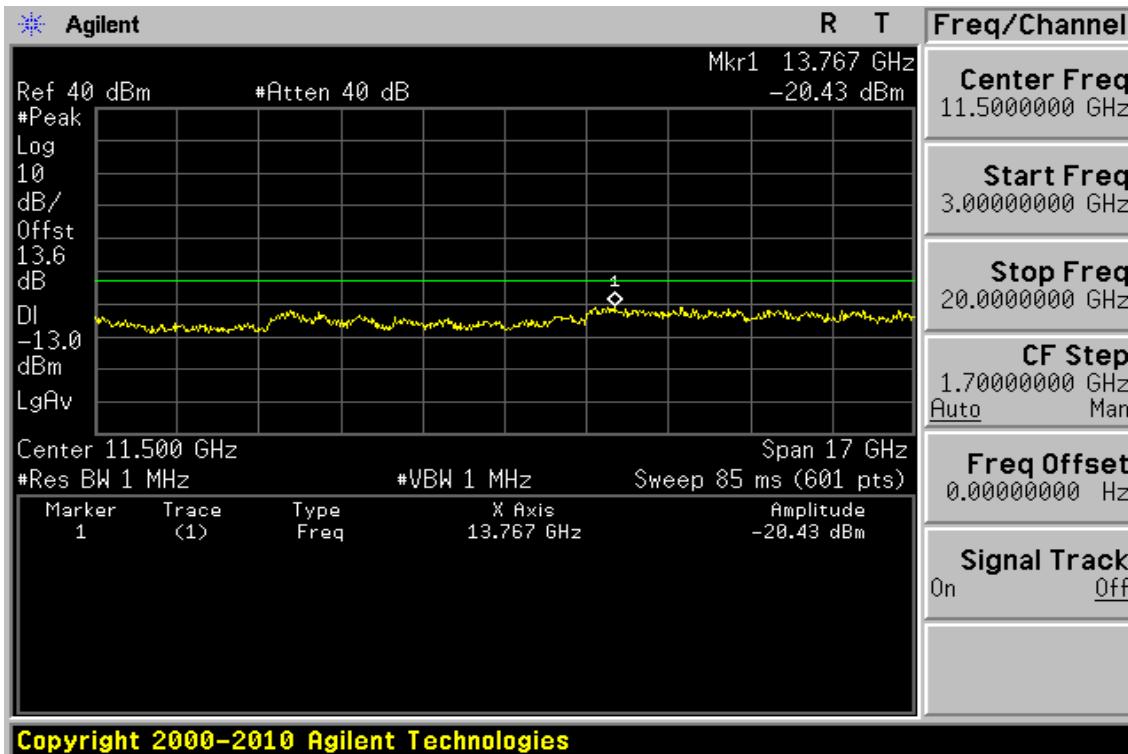
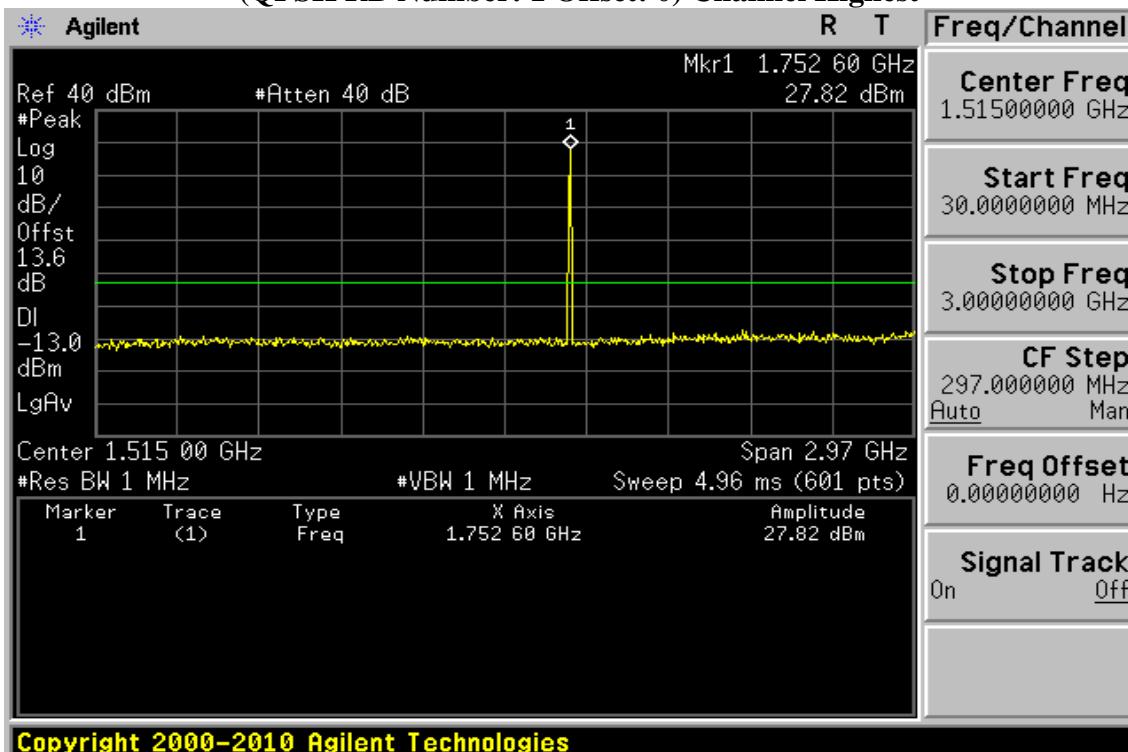


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**Figure 10-173: Out of Band emission at antenna terminals—5MHz BW LTE-Band 4
(QPSK RB Number: 1 Offset: 0) Channel Highest**



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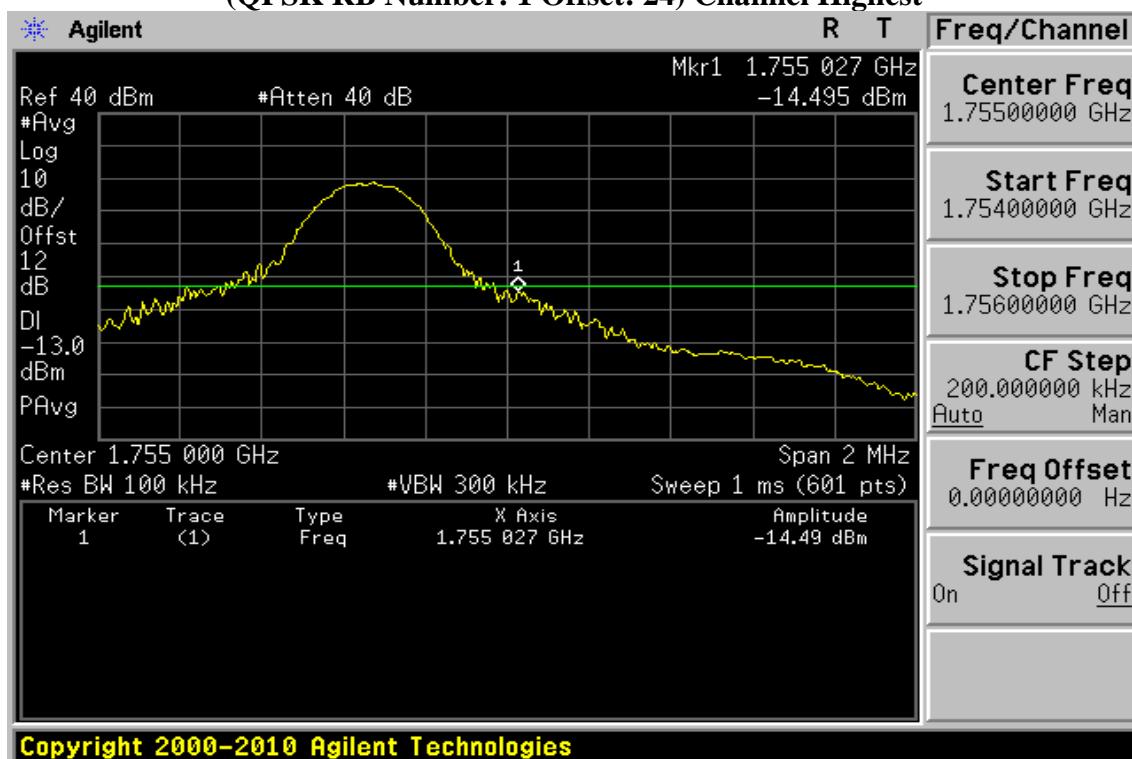
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**Figure 10-174: Band edge emission at antenna terminals –5MHz BW LTE-Band 4
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Figure 10-175: Band edge emission at antenna terminals –5MHz BW LTE-Band 4
(QPSK RB Number: 1 Offset: 24) Channel Highest**

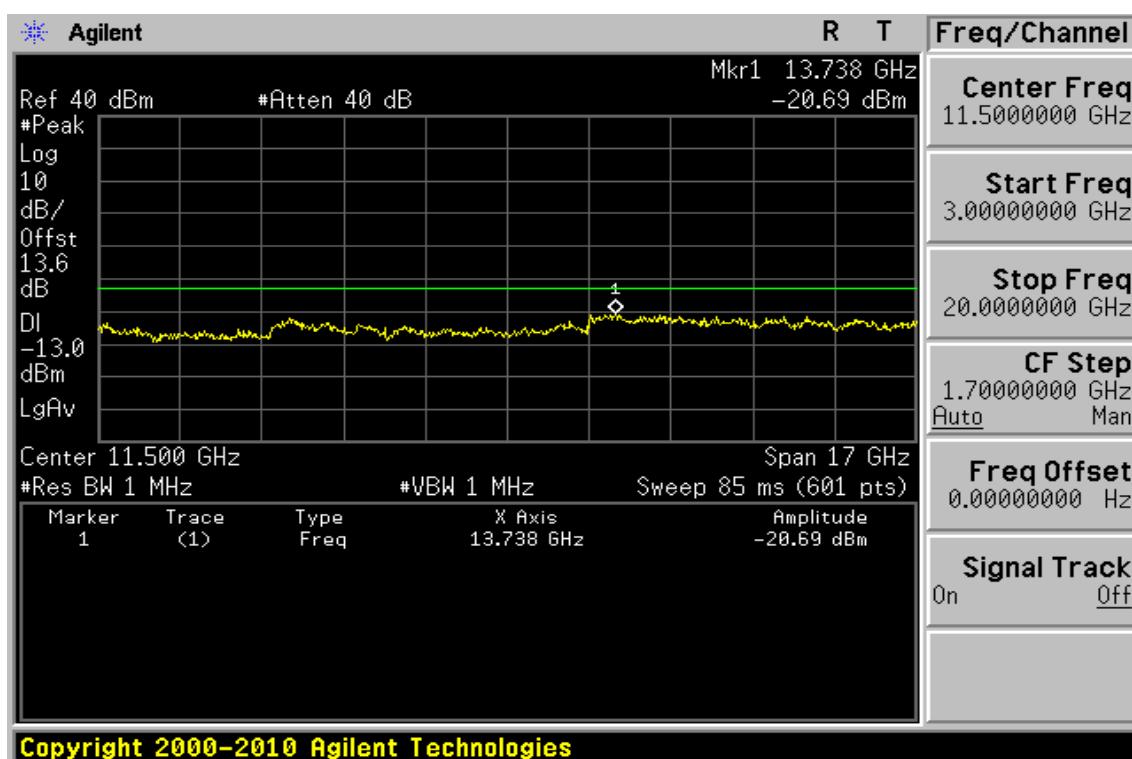
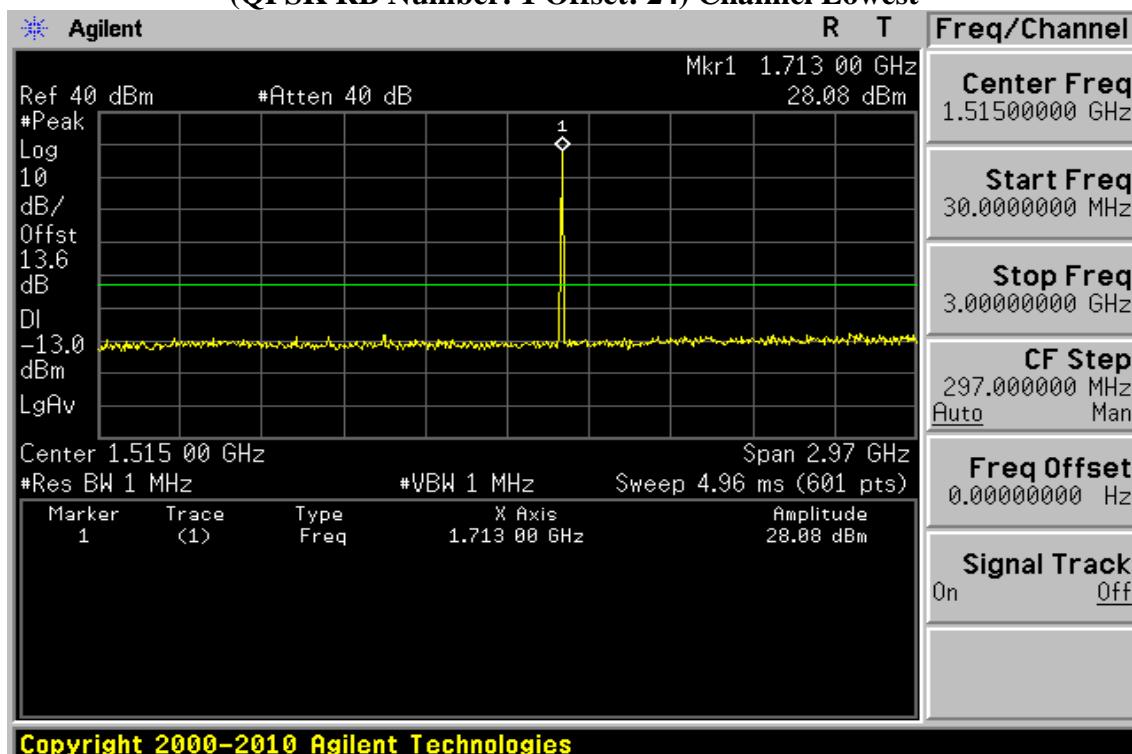


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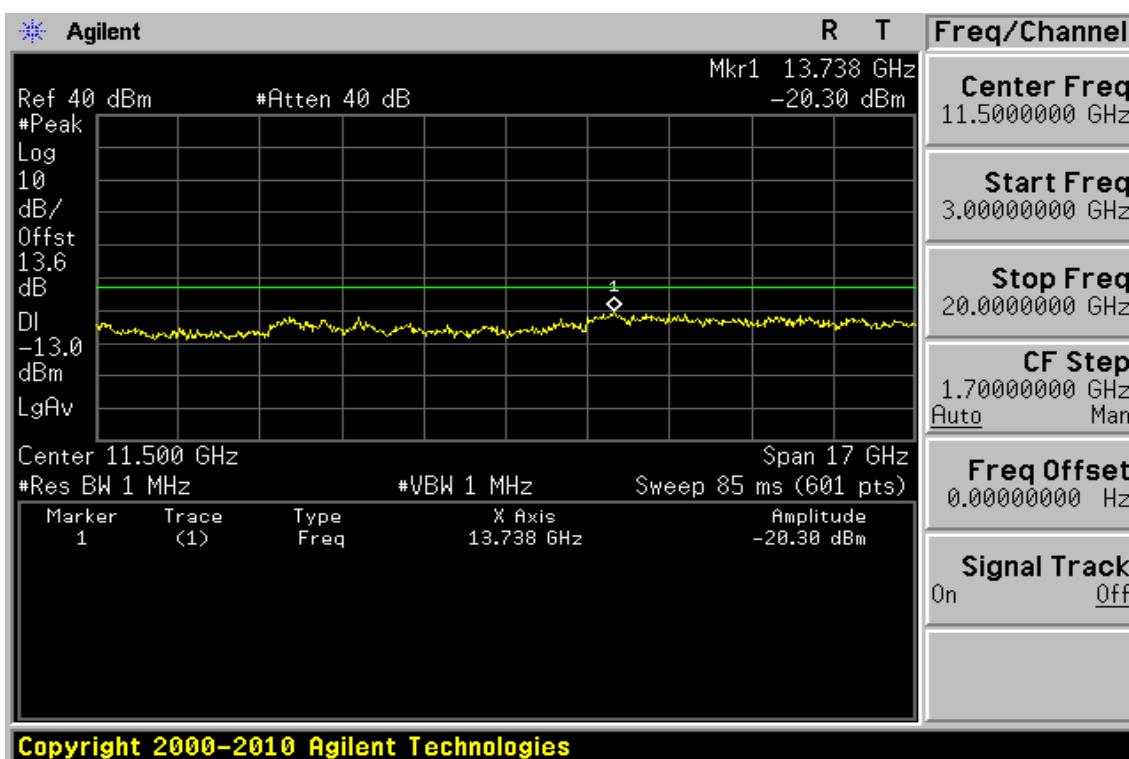
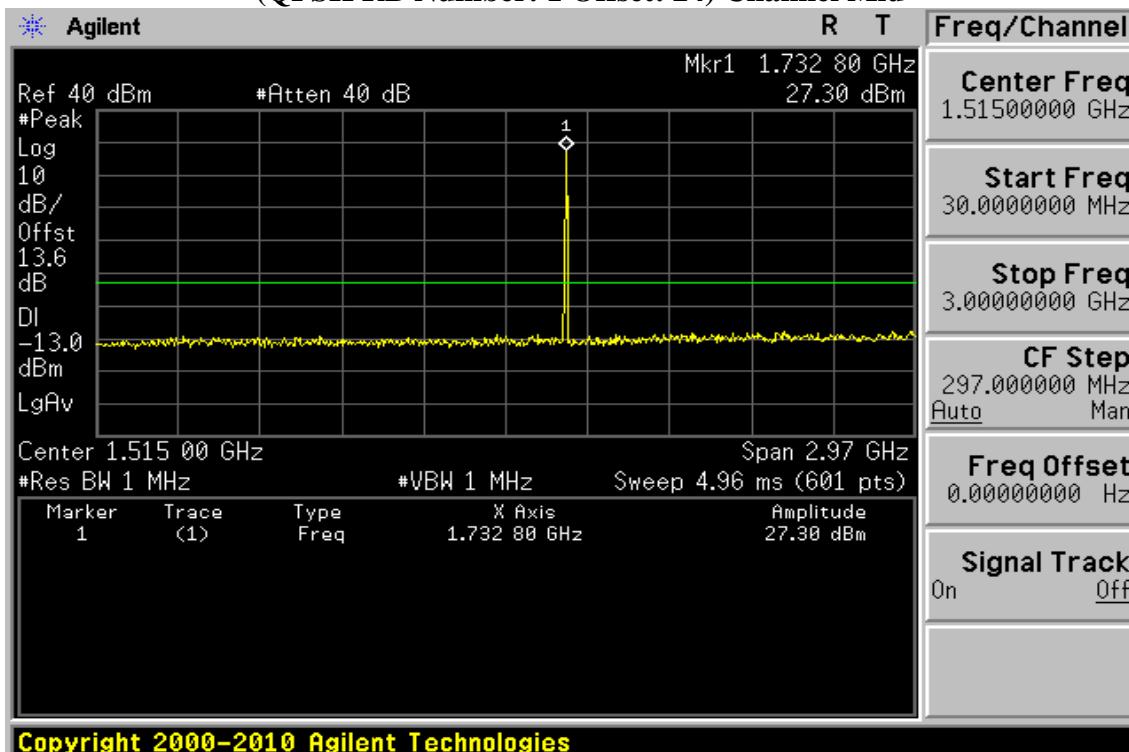
**Figure 10-176: Out of Band emission at antenna terminals—5MHz BW LTE-Band 4
(QPSK RB Number: 1 Offset: 24) Channel Lowest**



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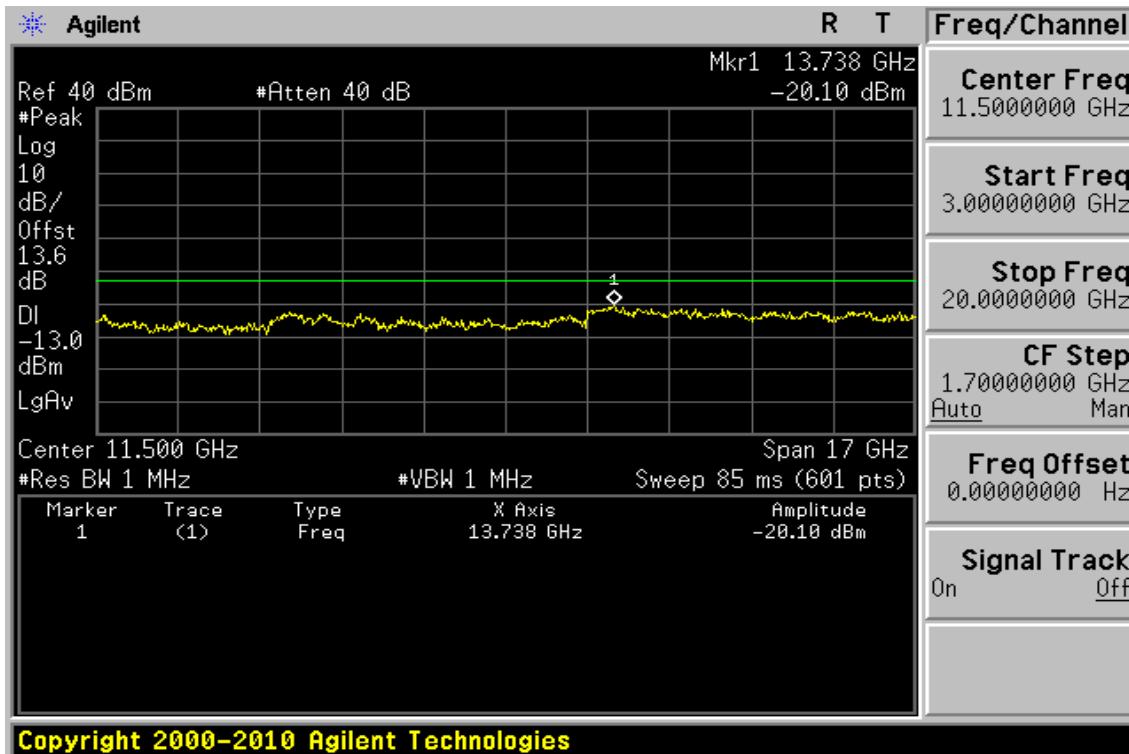
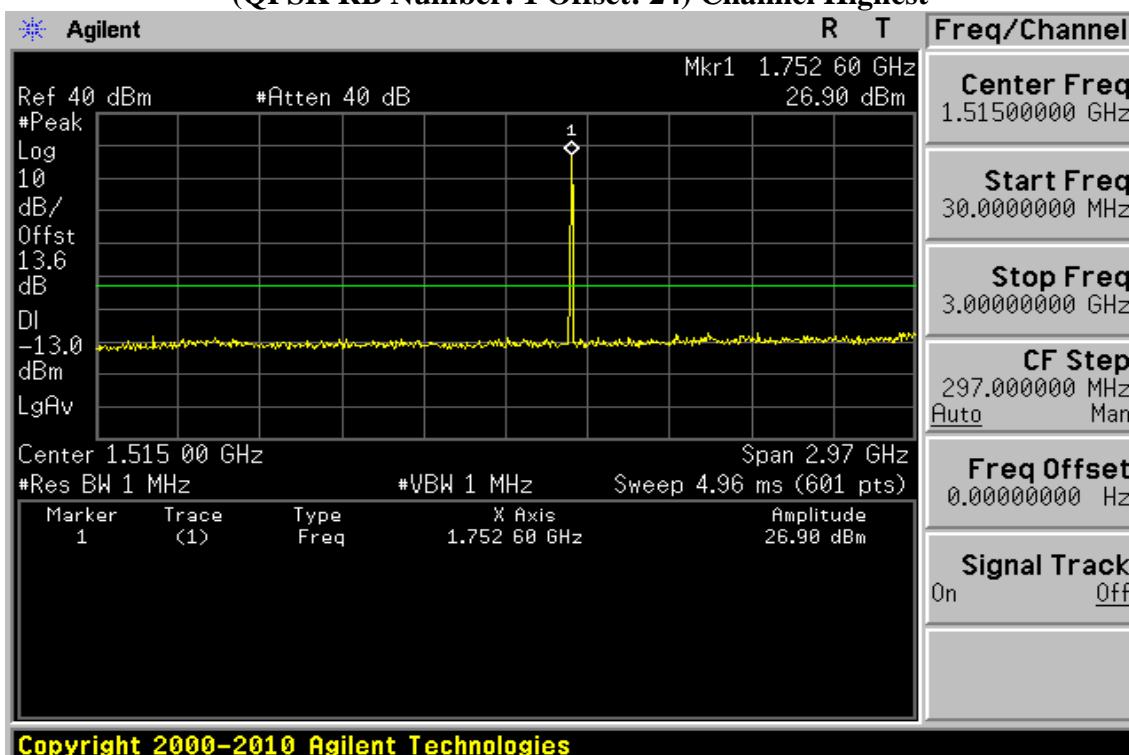
Figure 10-177: Out of Band emission at antenna terminals –5MHz BW LTE-Band 4
(QPSK RB Number: 1 Offset: 24) Channel Mid

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**Figure 10-178: Out of Band emission at antenna terminals—5MHz BW LTE-Band 4
(QPSK RB Number: 1 Offset: 24) Channel Highest**

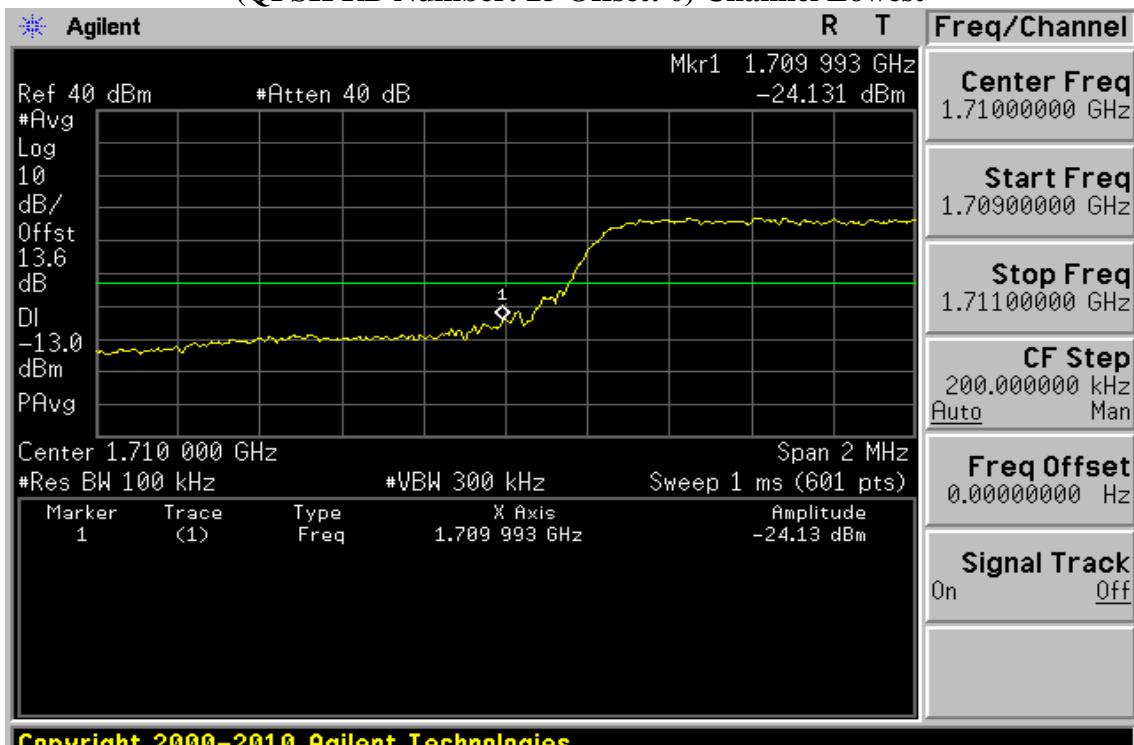


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**Figure 10-179: Band edge emission at antenna terminals –5MHz BW LTE-Band 4
(QPSK RB Number: 25 Offset: 0) Channel Lowest**



**Figure 10-180: Band edge emission at antenna terminals –5MHz BW LTE-Band 4
(QPSK RB Number: 25 Offset: 0) Channel Highest**

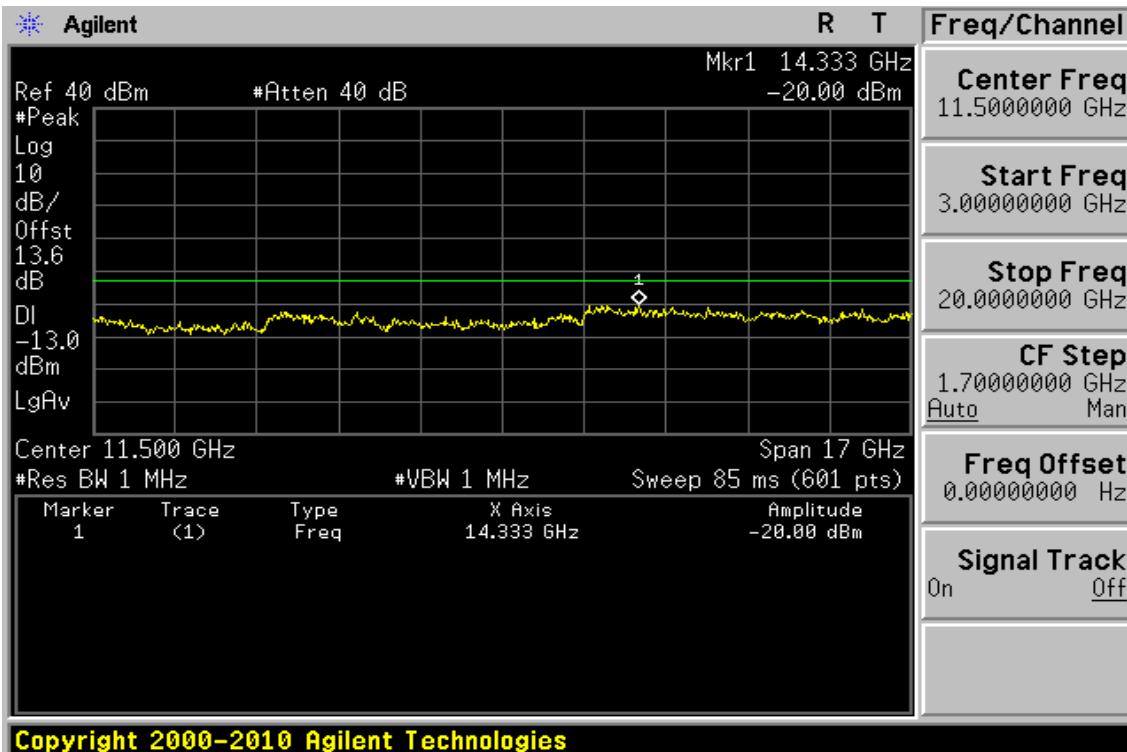
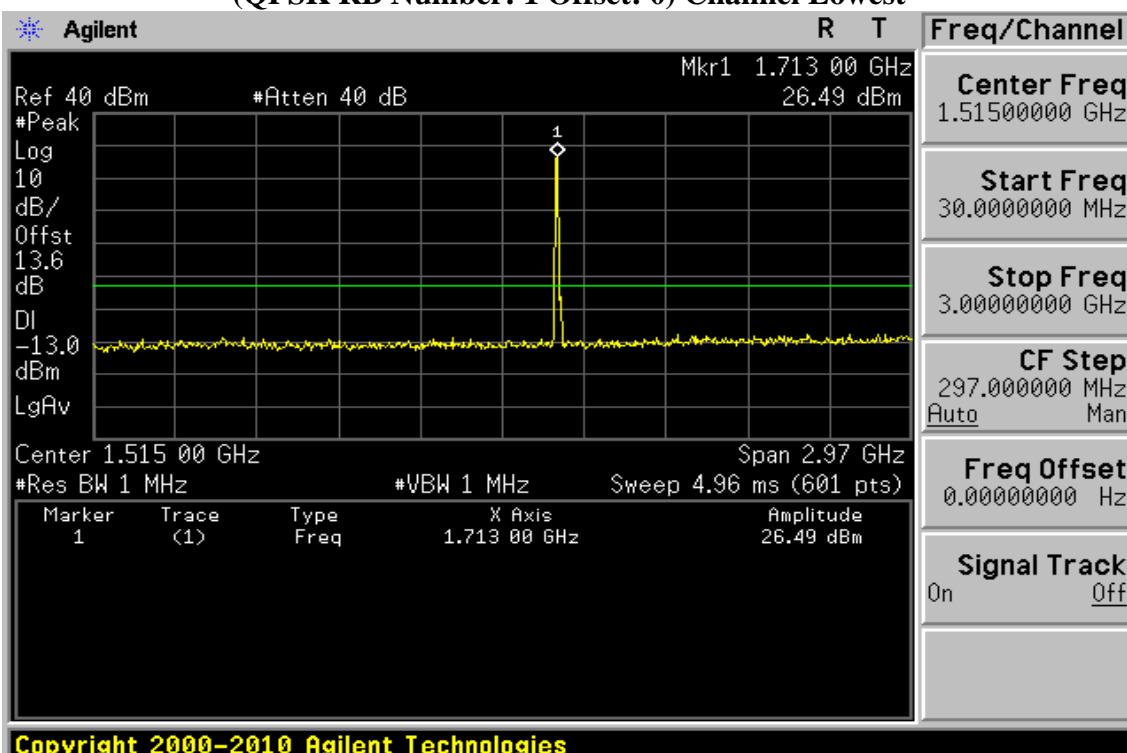


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**Figure 10-181: Out of Band emission at antenna terminals–10MHz BW LTE-Band 4
(QPSK RB Number: 1 Offset: 0) Channel Lowest**

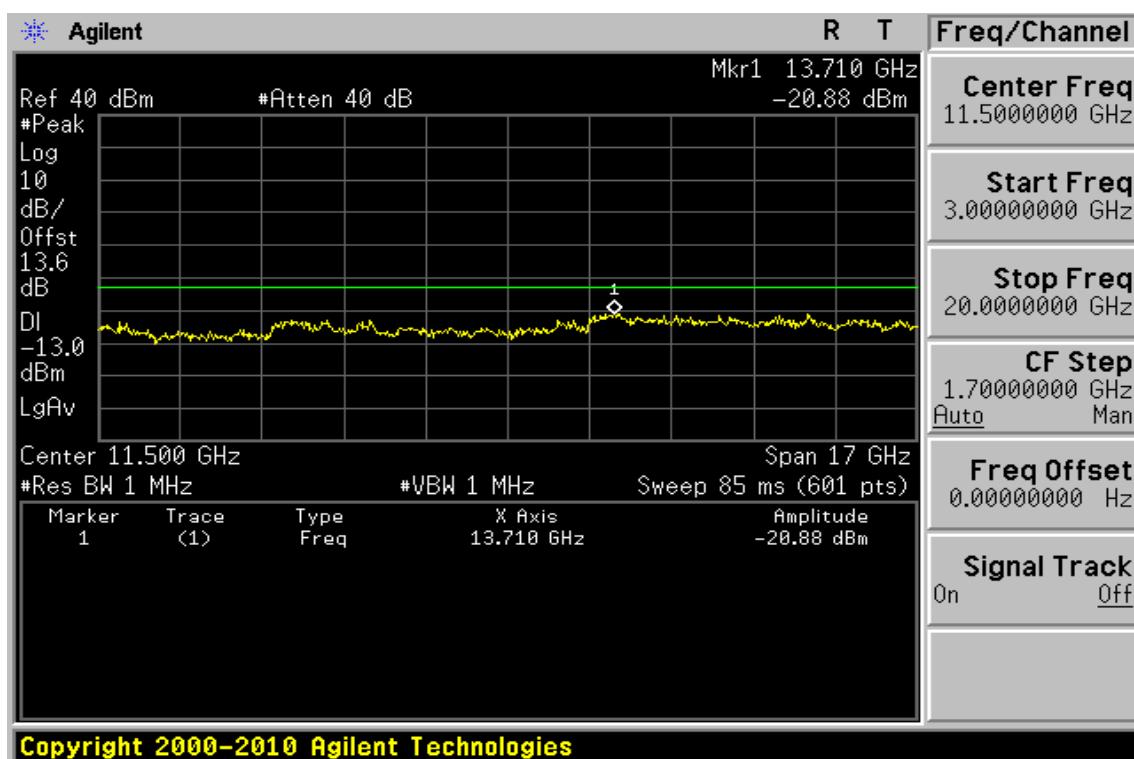
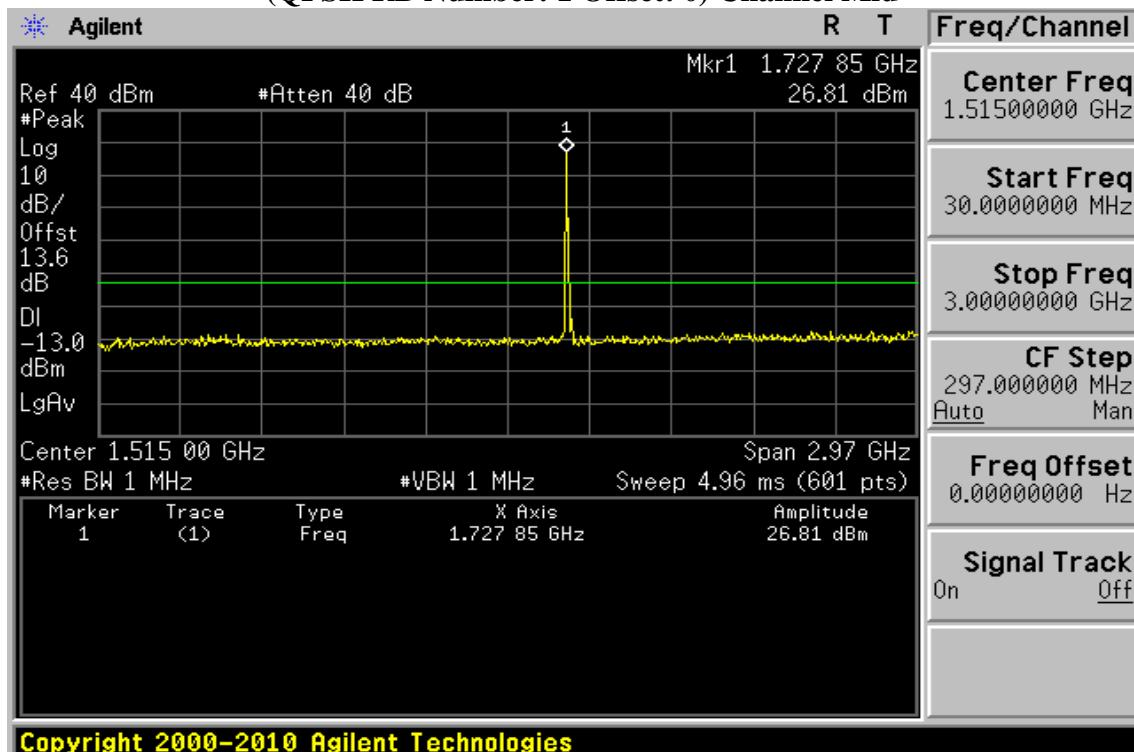


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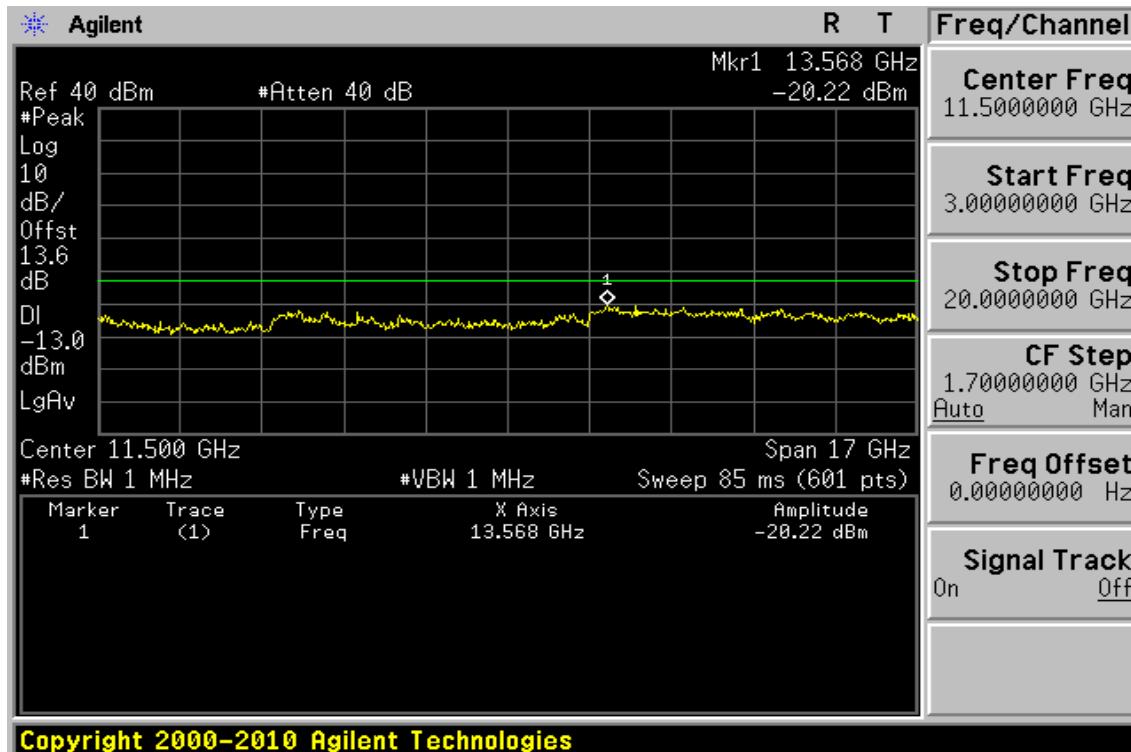
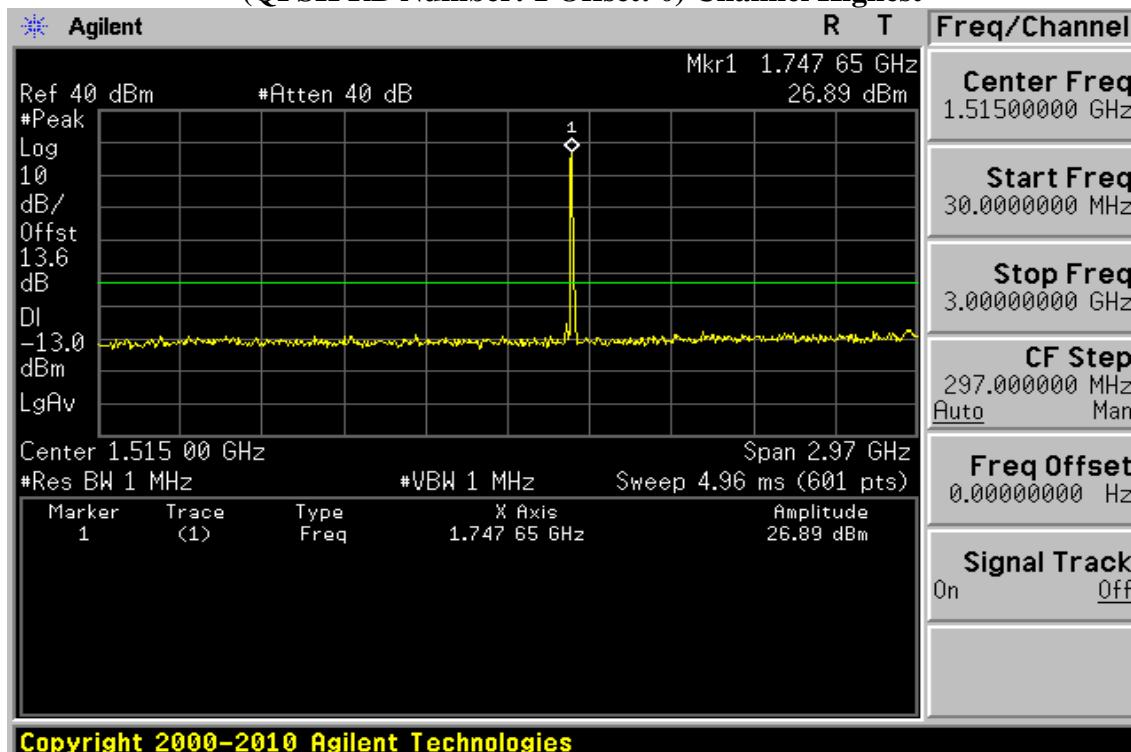
Figure 10-182: Out of Band emission at antenna terminals –10MHz BW LTE-Band 4
(QPSK RB Number: 1 Offset: 0) Channel Mid



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**Figure 10-183: Out of Band emission at antenna terminals–10MHz BW LTE-Band 4
(QPSK RB Number: 1 Offset: 0) Channel Highest**

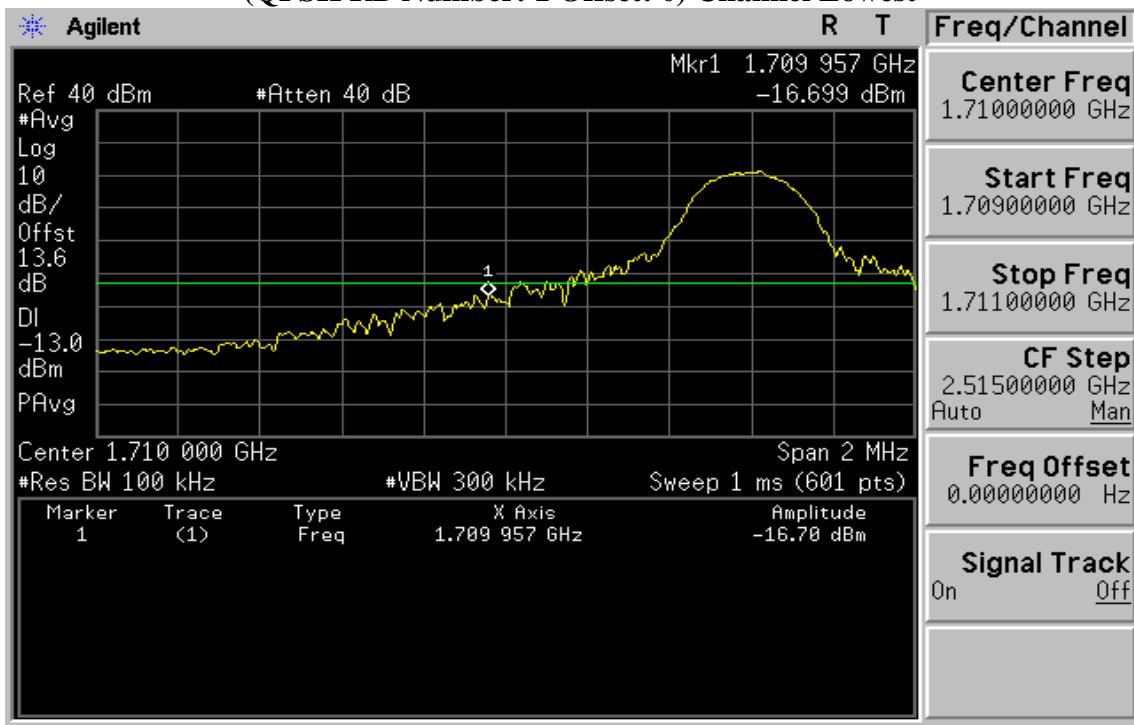


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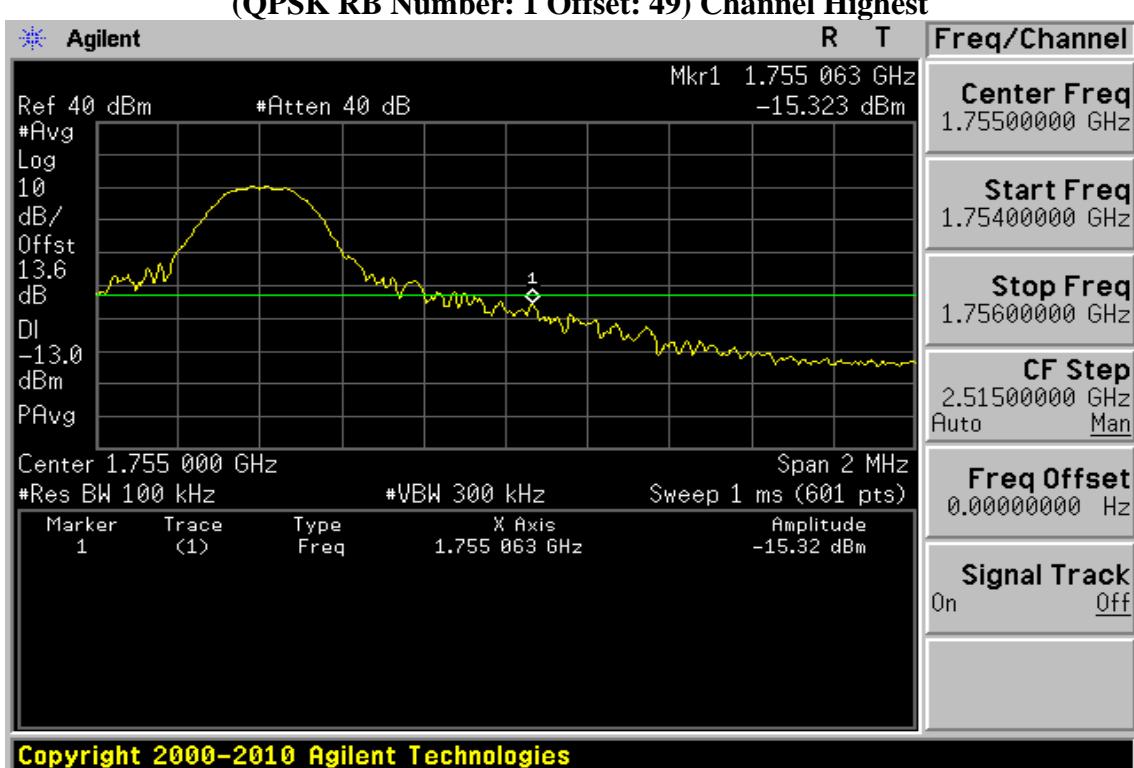
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**Figure 10-184: Band edge emission at antenna terminals –10MHz BW LTE-Band 4
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



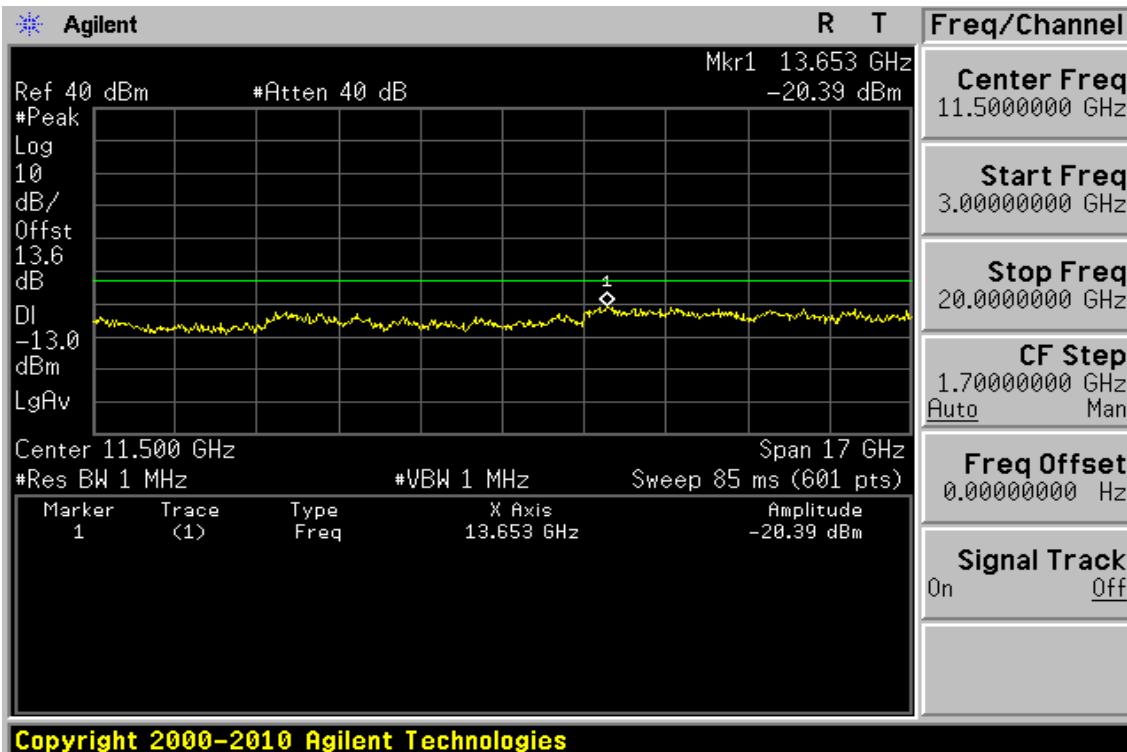
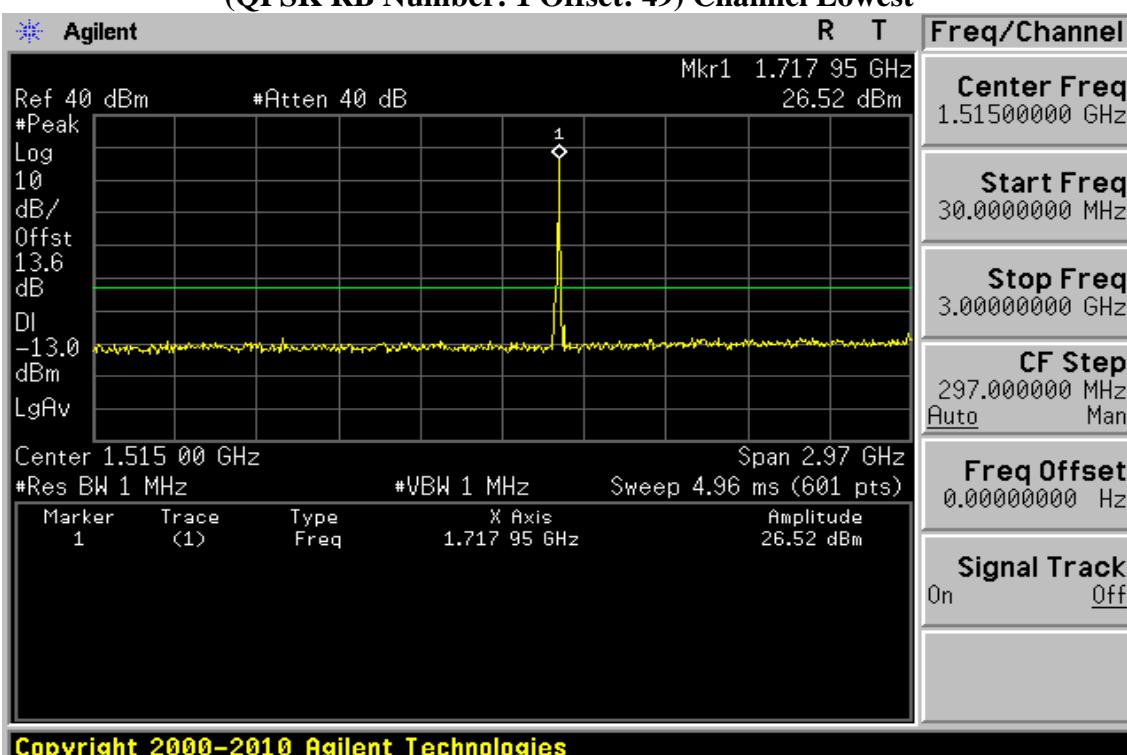
**Figure 10-185: Band edge emission at antenna terminals –10MHz BW LTE-Band 4
(QPSK RB Number: 1 Offset: 49) Channel Highest**



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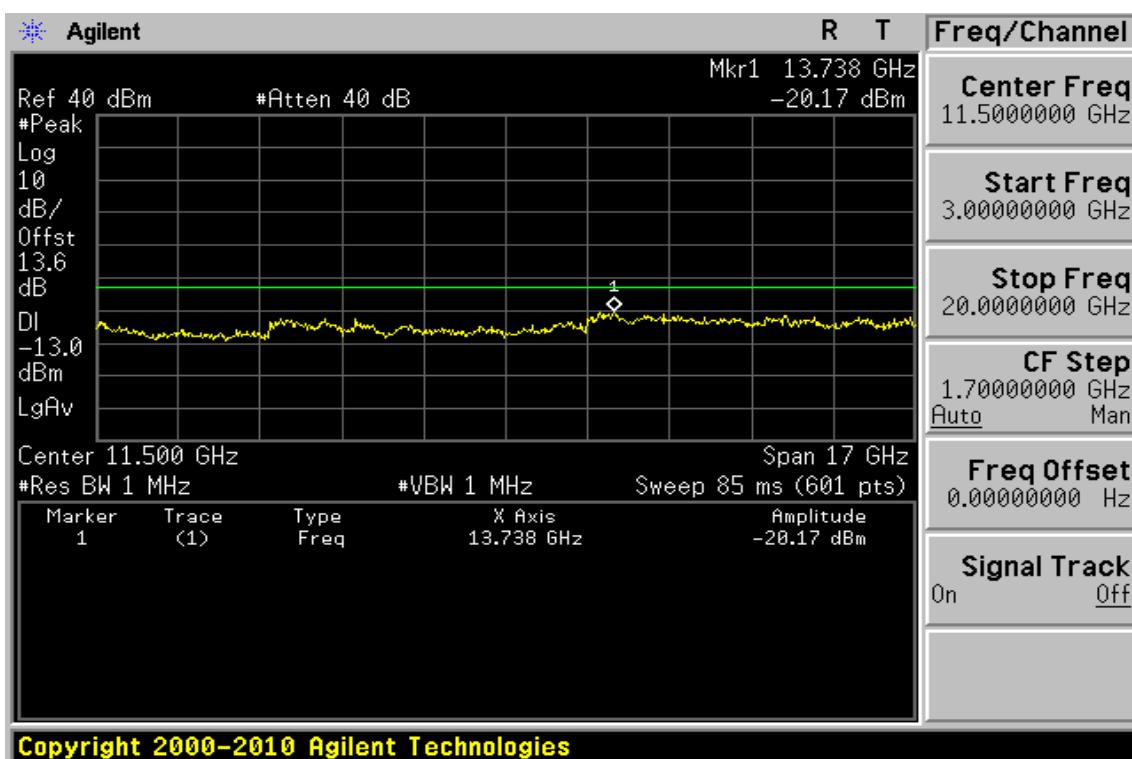
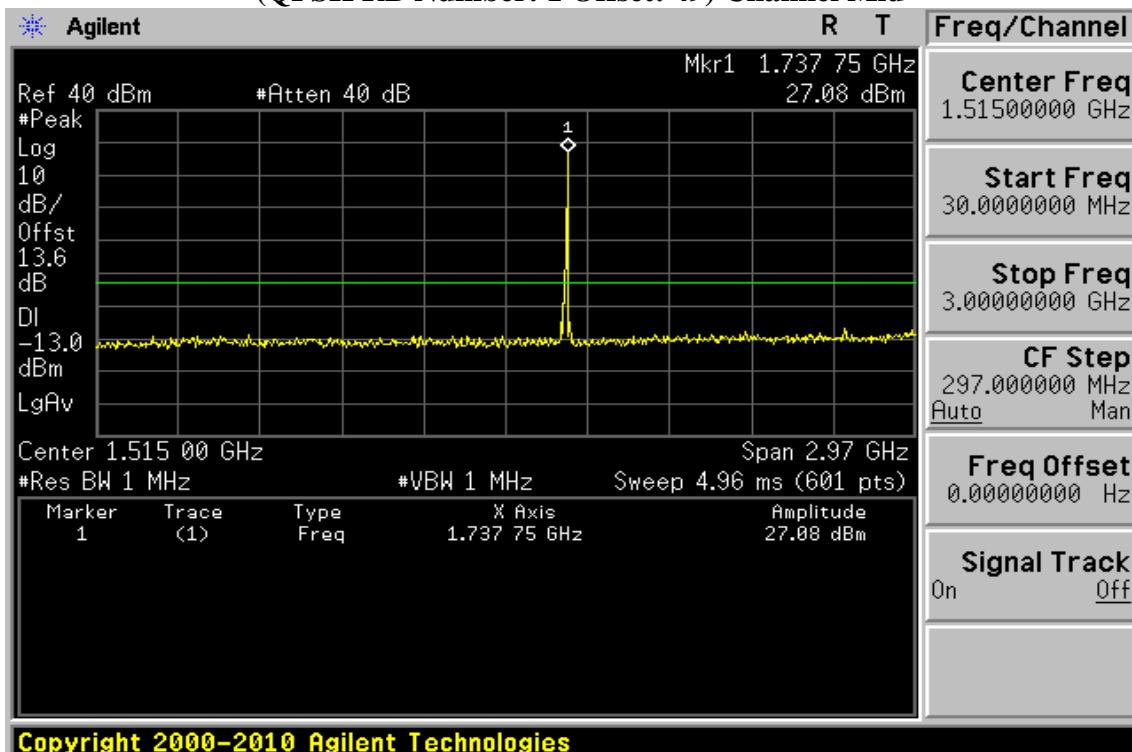
Figure 10-186: Out of Band emission at antenna terminals—10MHz BW LTE-Band 4
(QPSK RB Number: 1 Offset: 49) Channel Lowest

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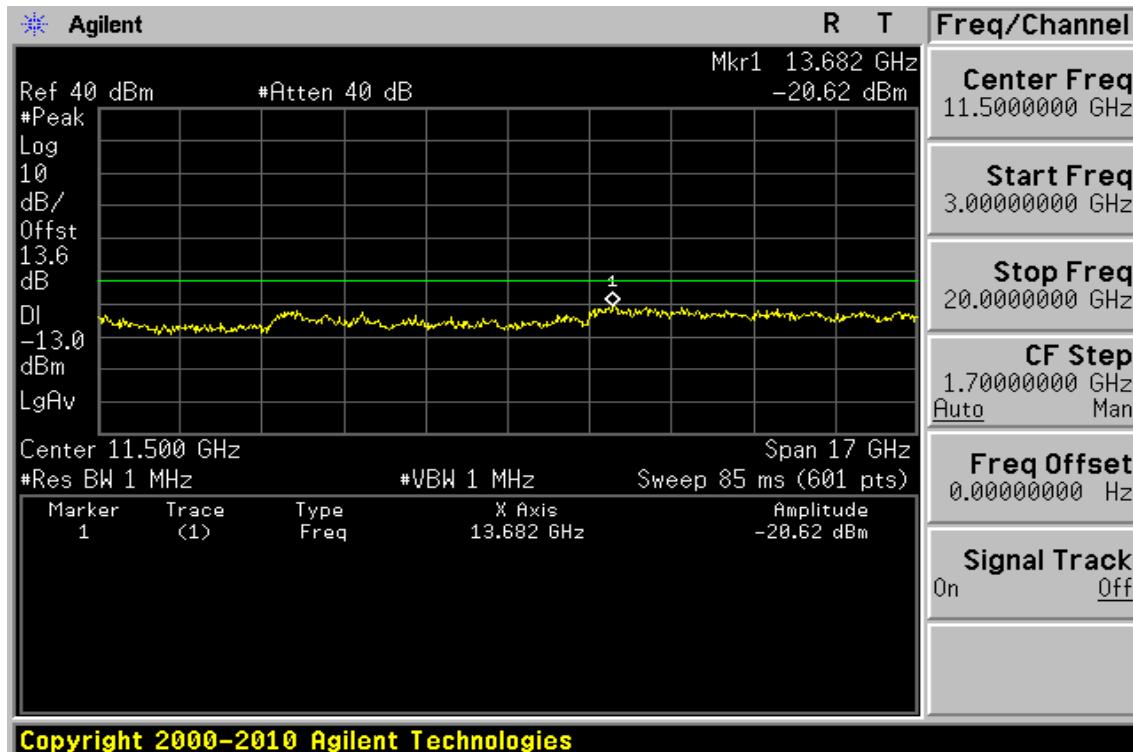
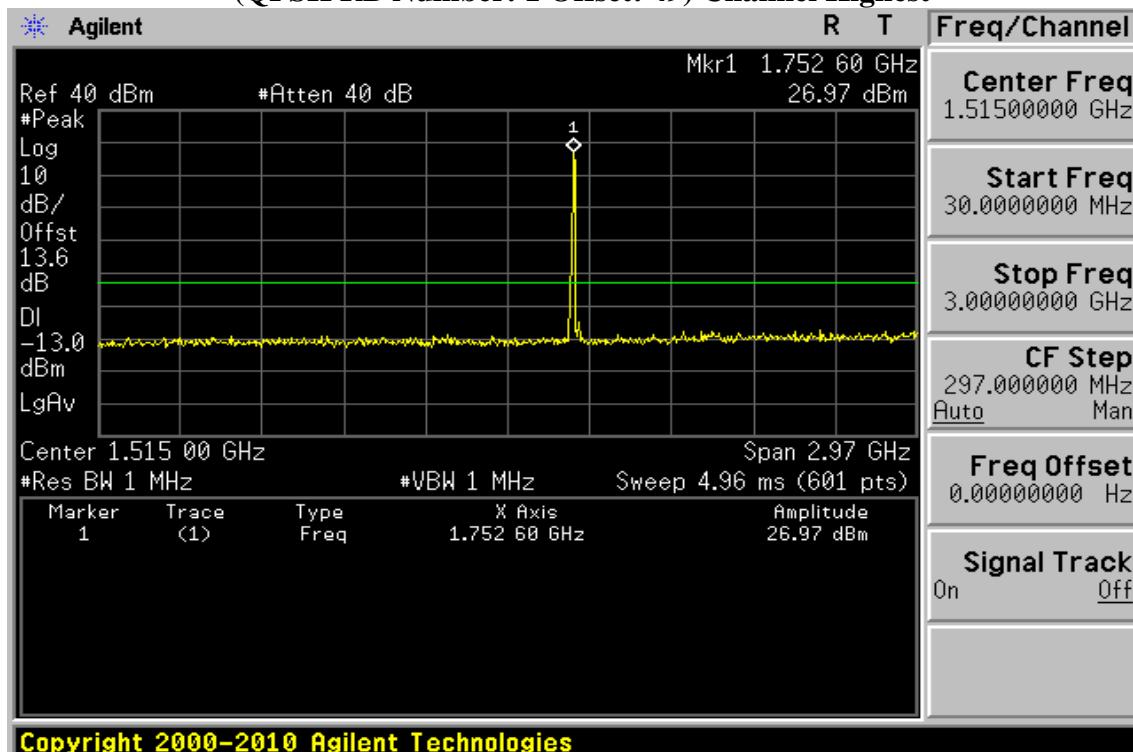
Figure 10-187: Out of Band emission at antenna terminals –10MHz BW LTE-Band 4
(QPSK RB Number: 1 Offset: 49) Channel Mid



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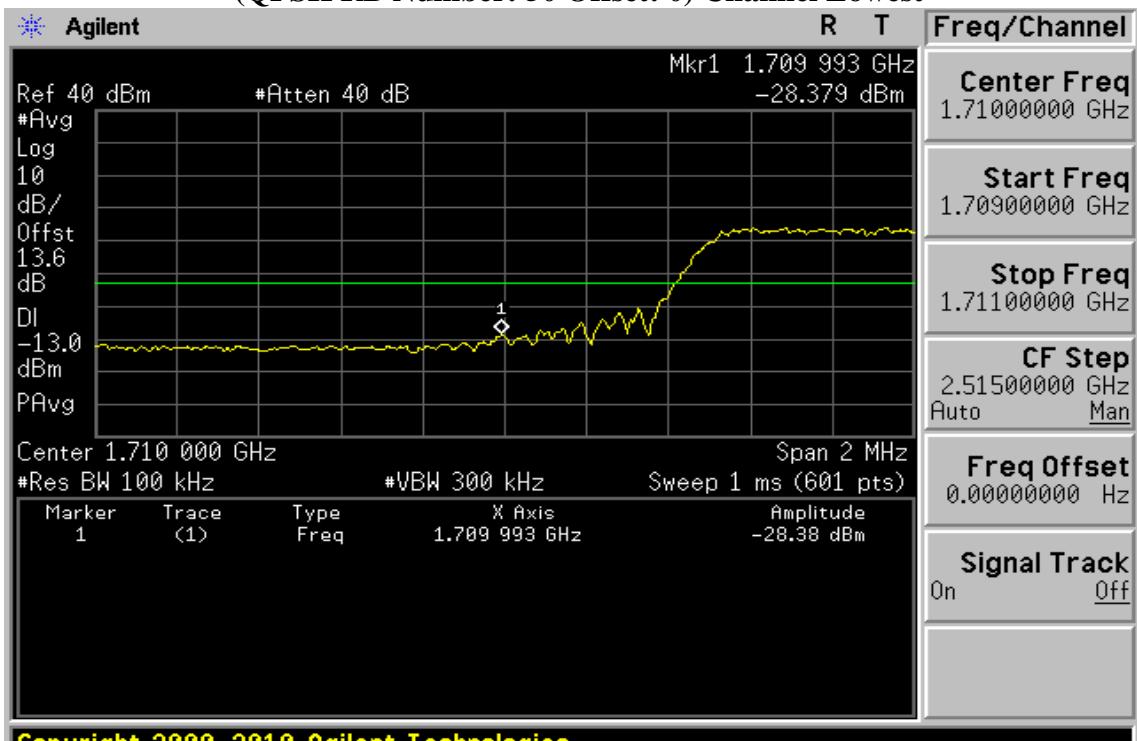
Figure 10-188: Out of Band emission at antenna terminals—10MHz BW LTE-Band 4
(QPSK RB Number: 1 Offset: 49) Channel Highest

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**Figure 10-189: Band edge emission at antenna terminals –10MHz BW LTE-Band 4
(QPSK RB Number: 50 Offset: 0) Channel Lowest**



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**Figure 10-190: Band edge emission at antenna terminals –10MHz BW LTE-Band 4
(QPSK RB Number: 50 Offset: 0) Channel Highest**

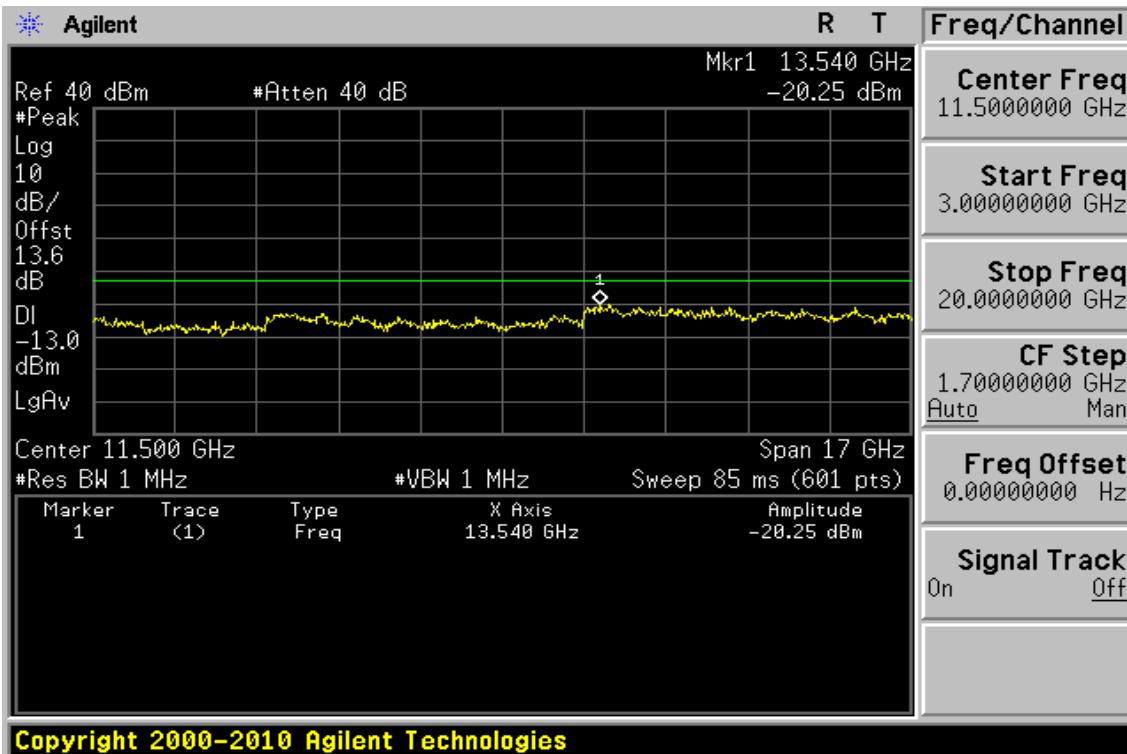
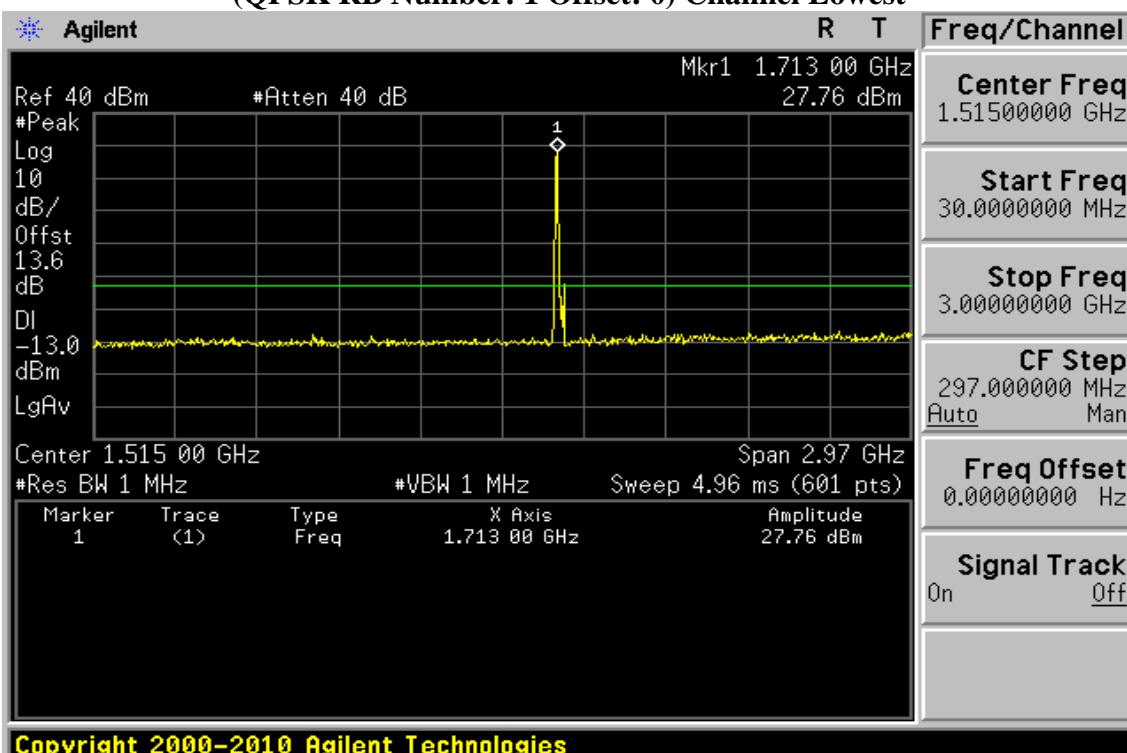


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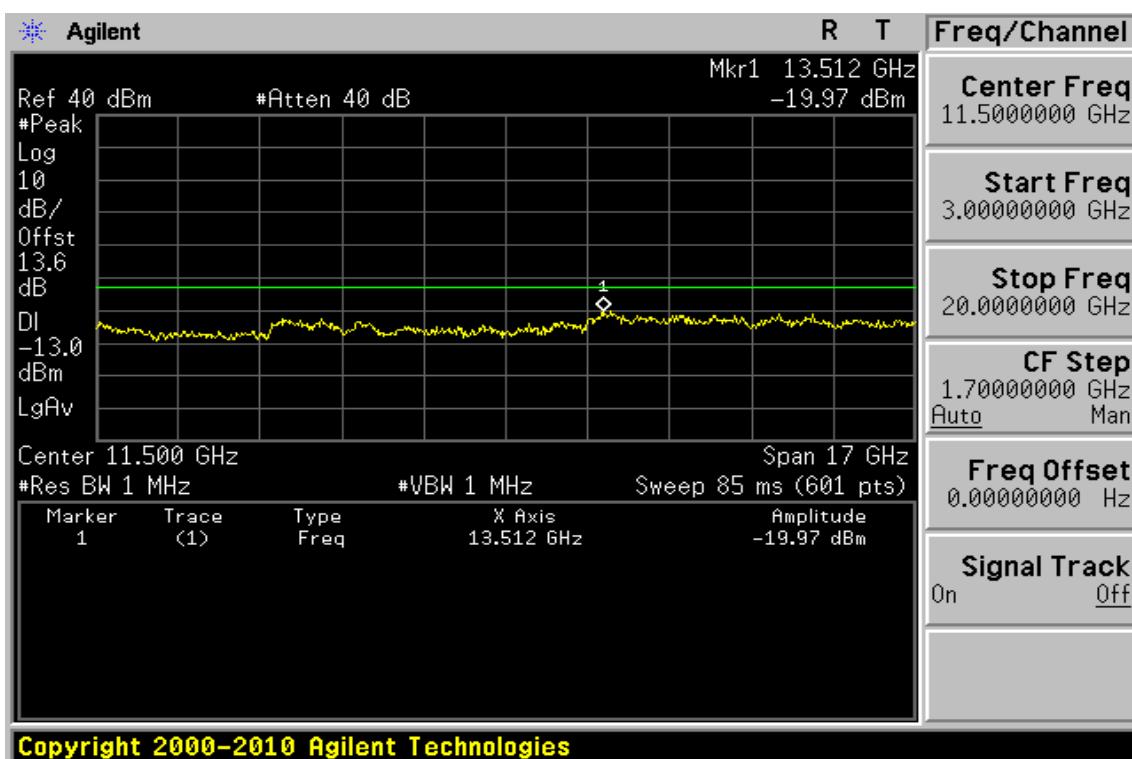
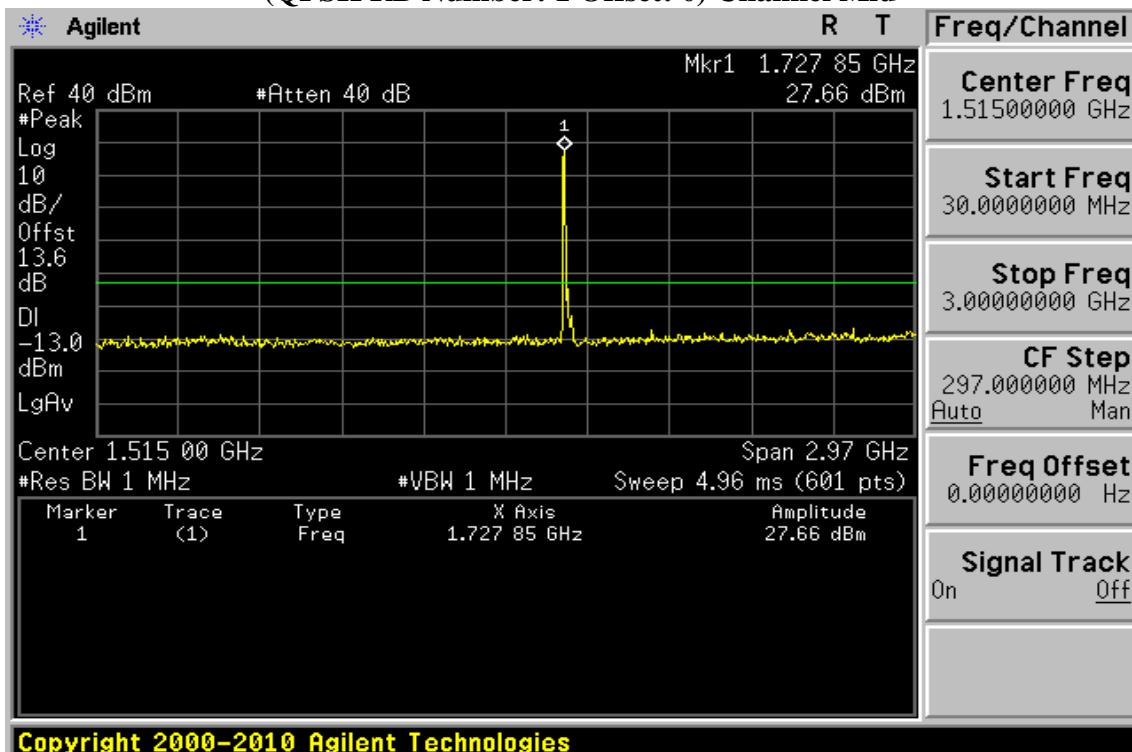
Figure 10-191: Out of Band emission at antenna terminals—15MHz BW LTE-Band 4
(QPSK RB Number: 1 Offset: 0) Channel Lowest

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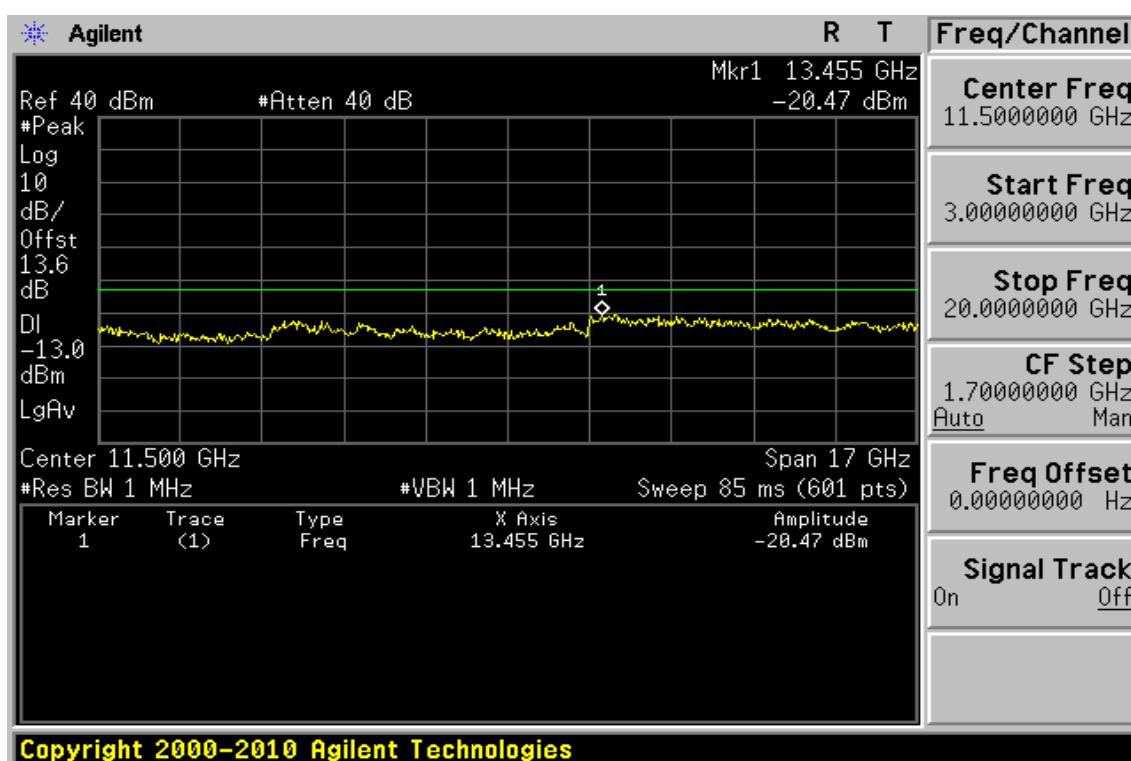
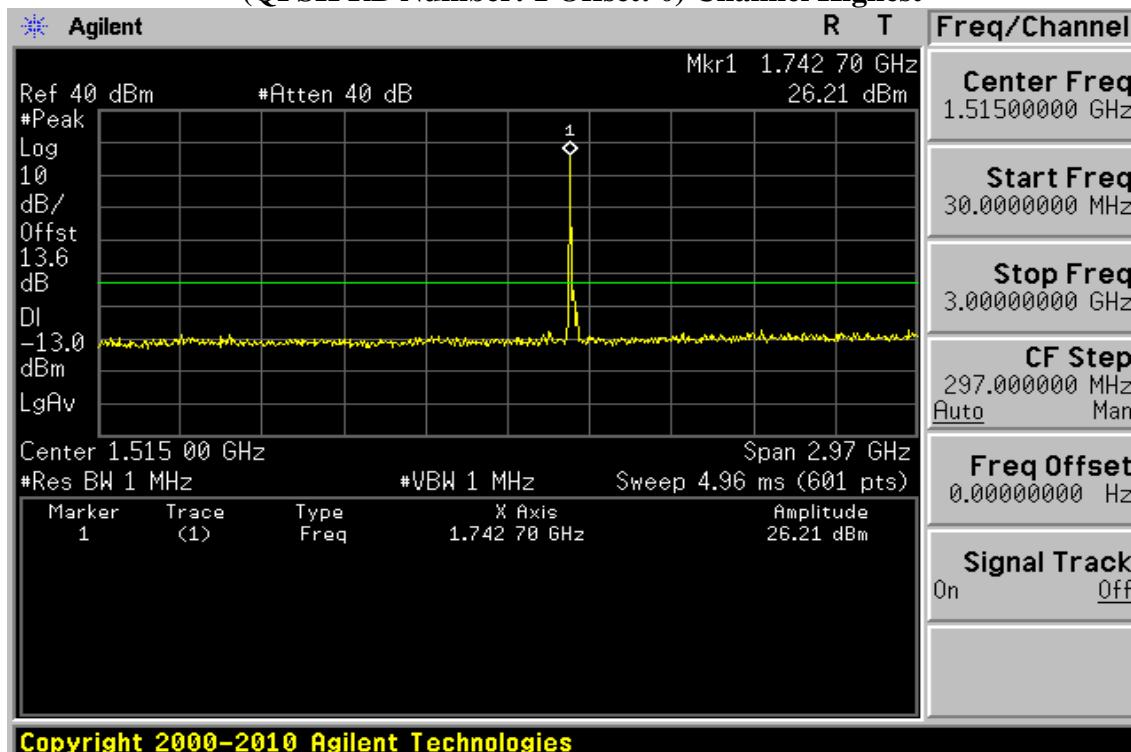
Figure 10-192: Out of Band emission at antenna terminals –15MHz BW LTE-Band 4
(QPSK RB Number: 1 Offset: 0) Channel Mid



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**Figure 10-193: Out of Band emission at antenna terminals—15MHz BW LTE-Band 4
(QPSK RB Number: 1 Offset: 0) Channel Highest**

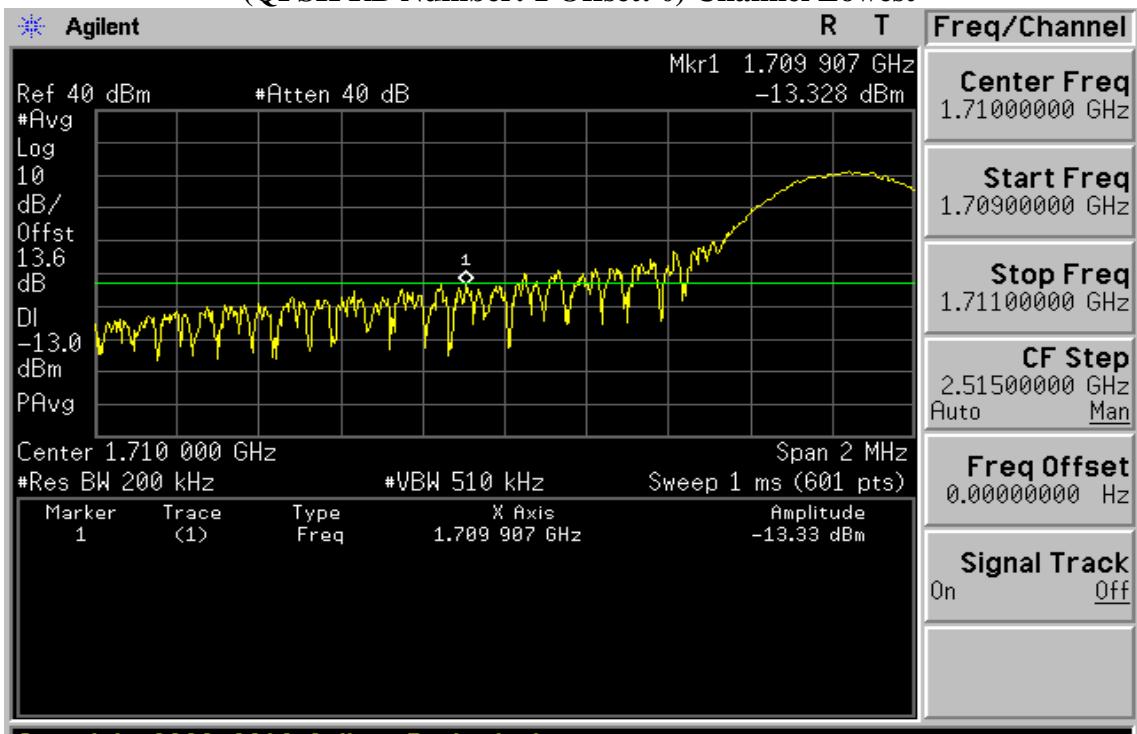


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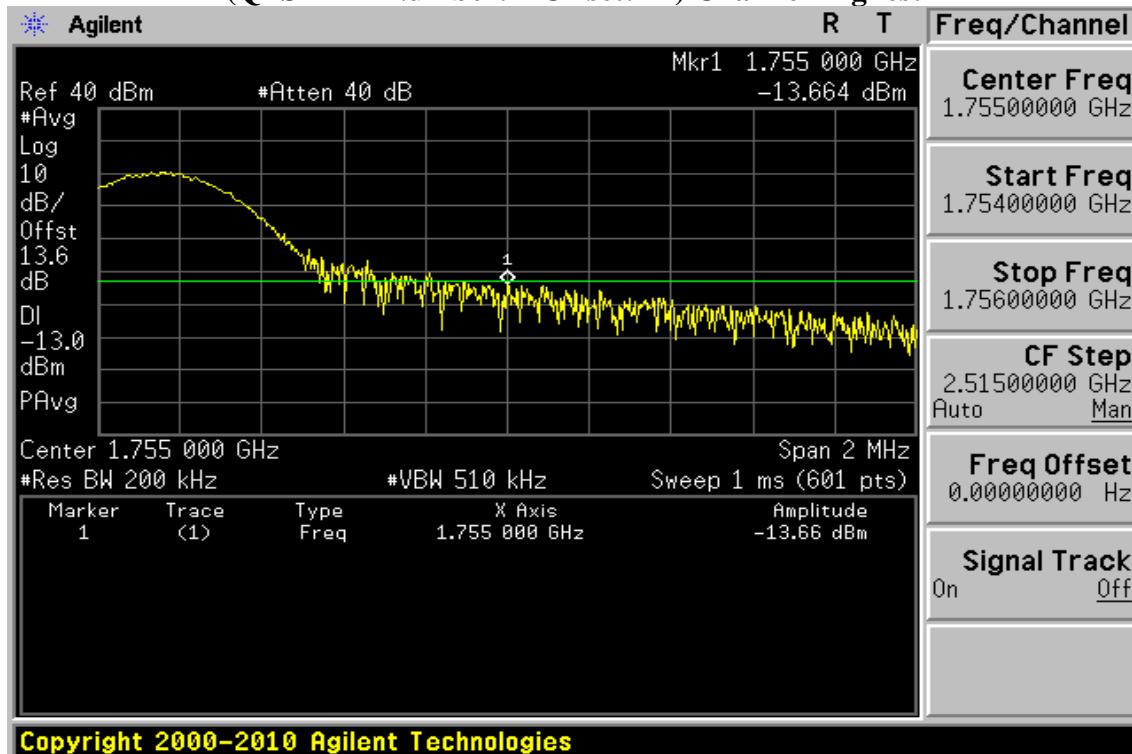
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**Figure 10-194: Band edge emission at antenna terminals –15MHz BW LTE-Band 4
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



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**Figure 10-195: Band edge emission at antenna terminals –15MHz BW LTE-Band 4
(QPSK RB Number: 1 Offset: 74) Channel Highest**



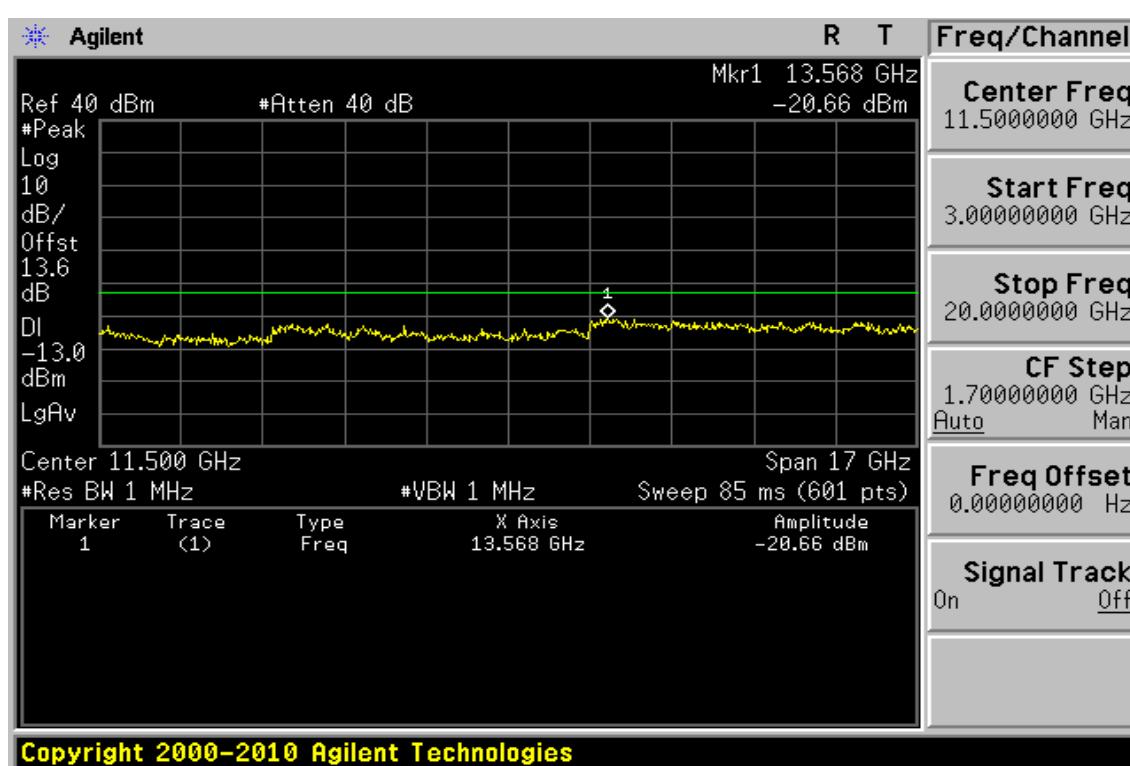
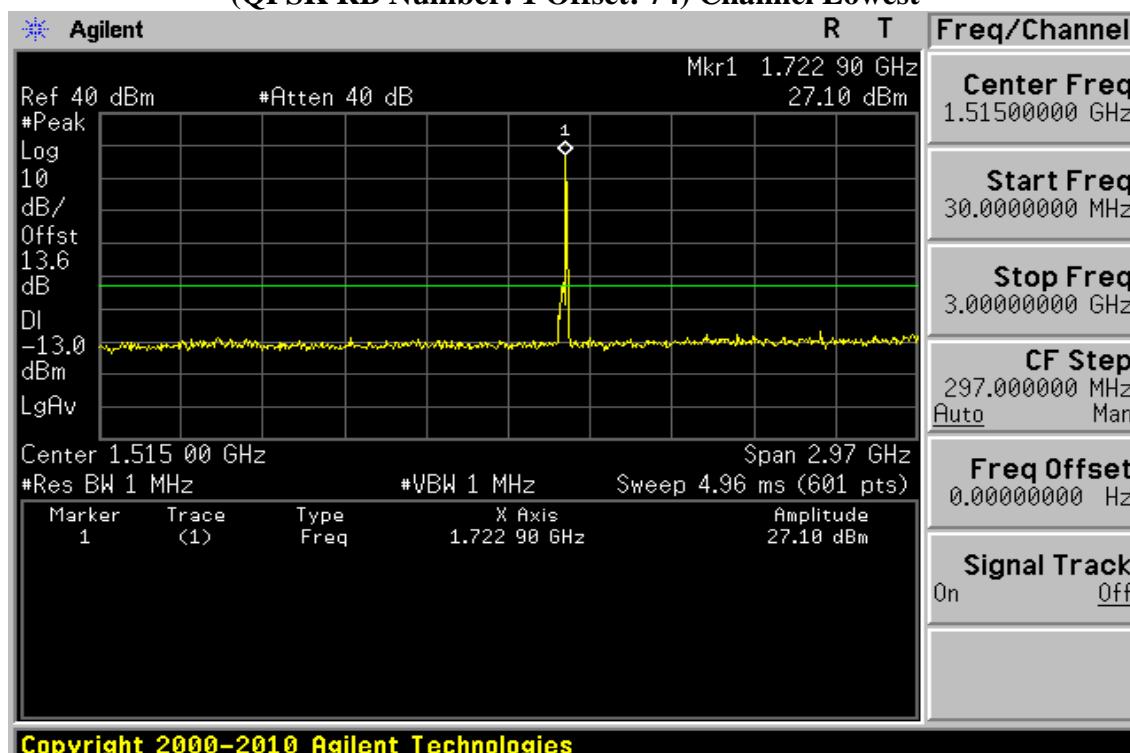
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Figure 10-196: Out of Band emission at antenna terminals–15MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 74) Channel Lowest

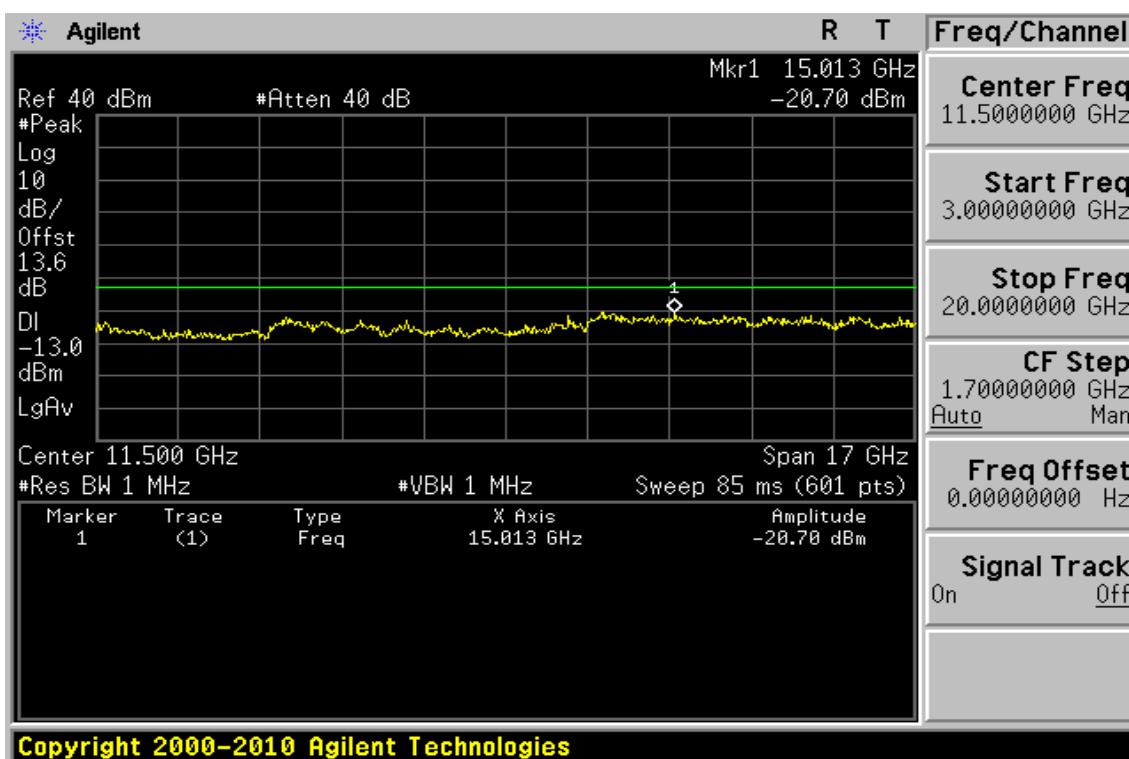
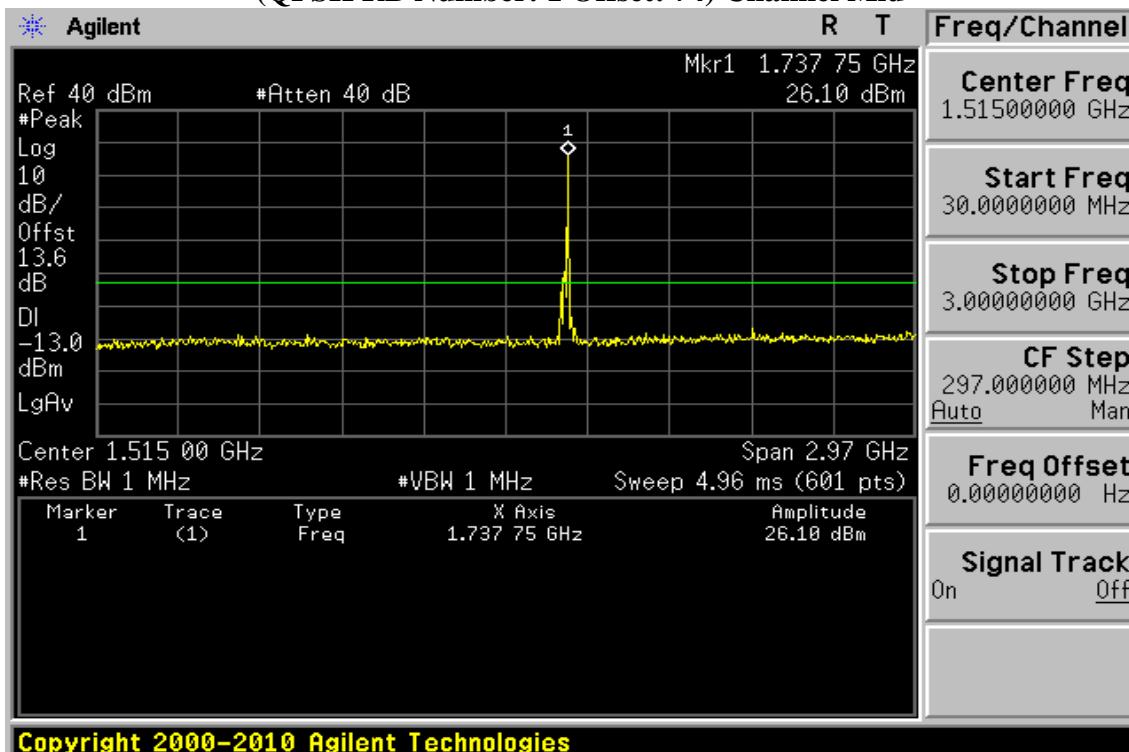


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Figure 10-197: Out of Band emission at antenna terminals –15MHz BW LTE-Band 4
(QPSK RB Number: 1 Offset: 74) Channel Mid

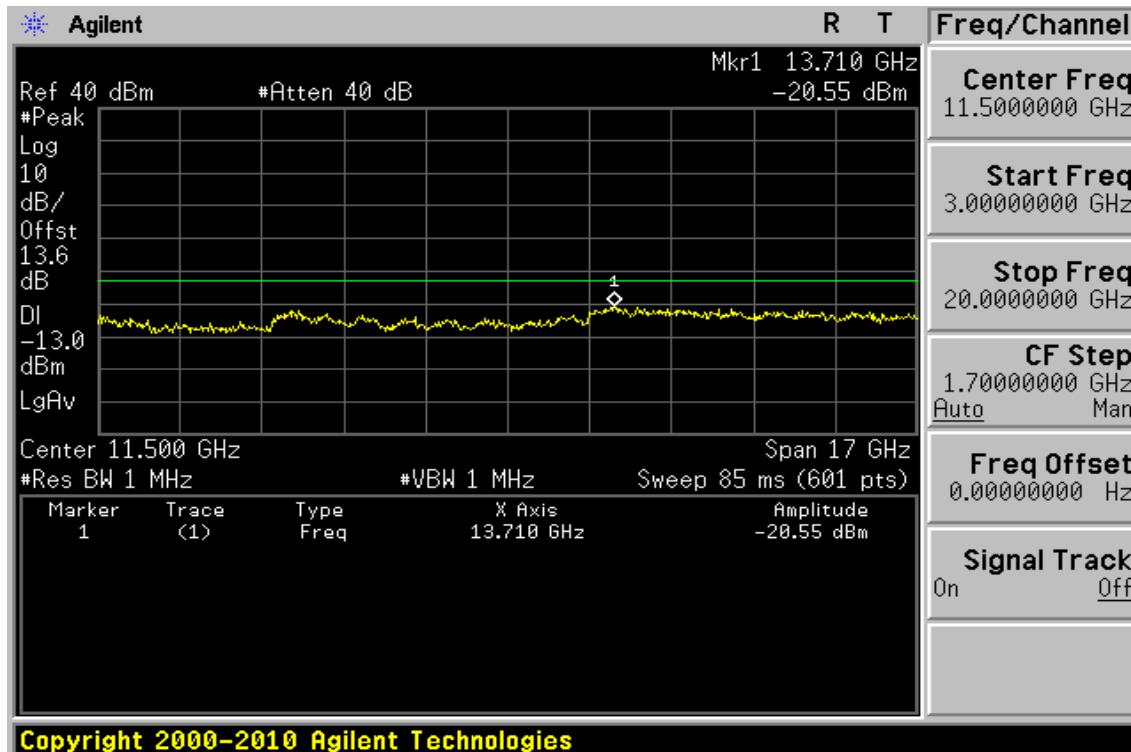
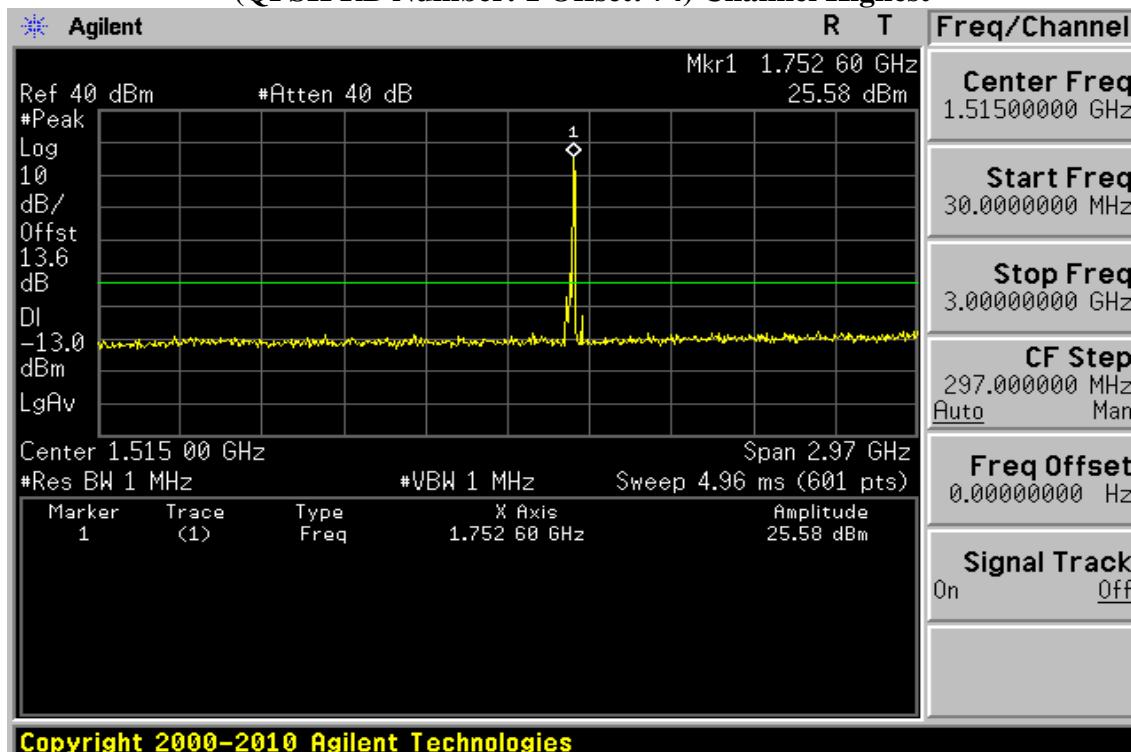


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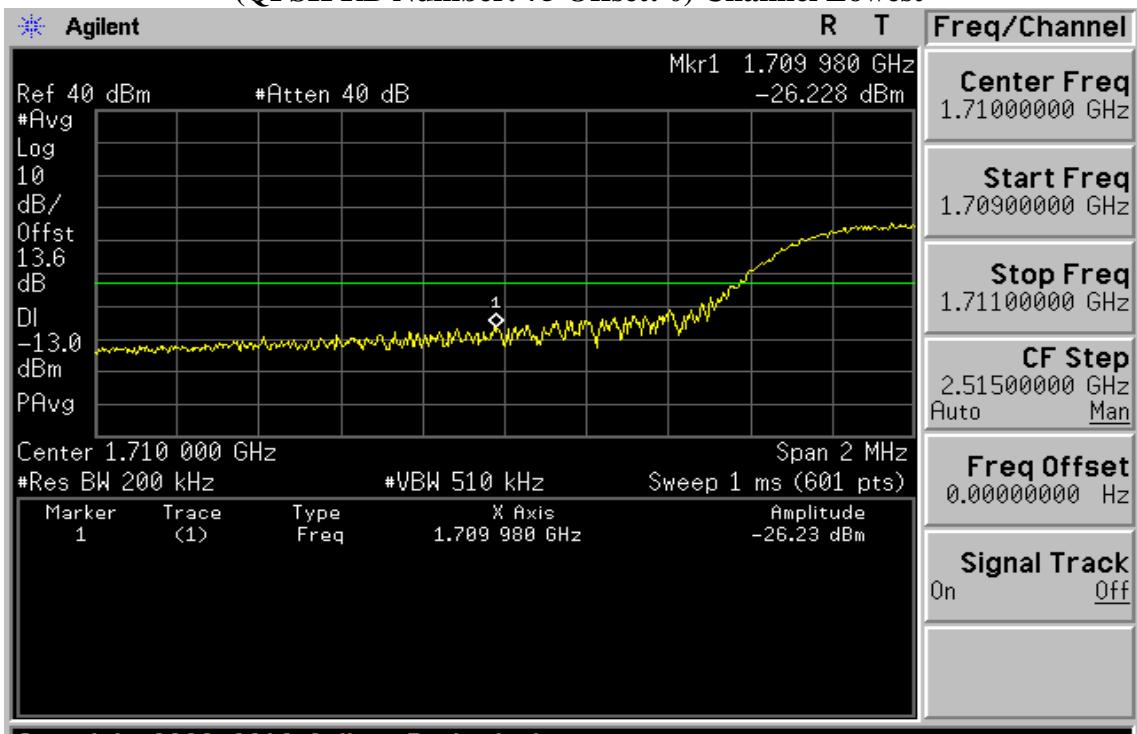
**Figure 10-198: Out of Band emission at antenna terminals–15MHz BW LTE-Band 4
(QPSK RB Number: 1 Offset: 74) Channel Highest**



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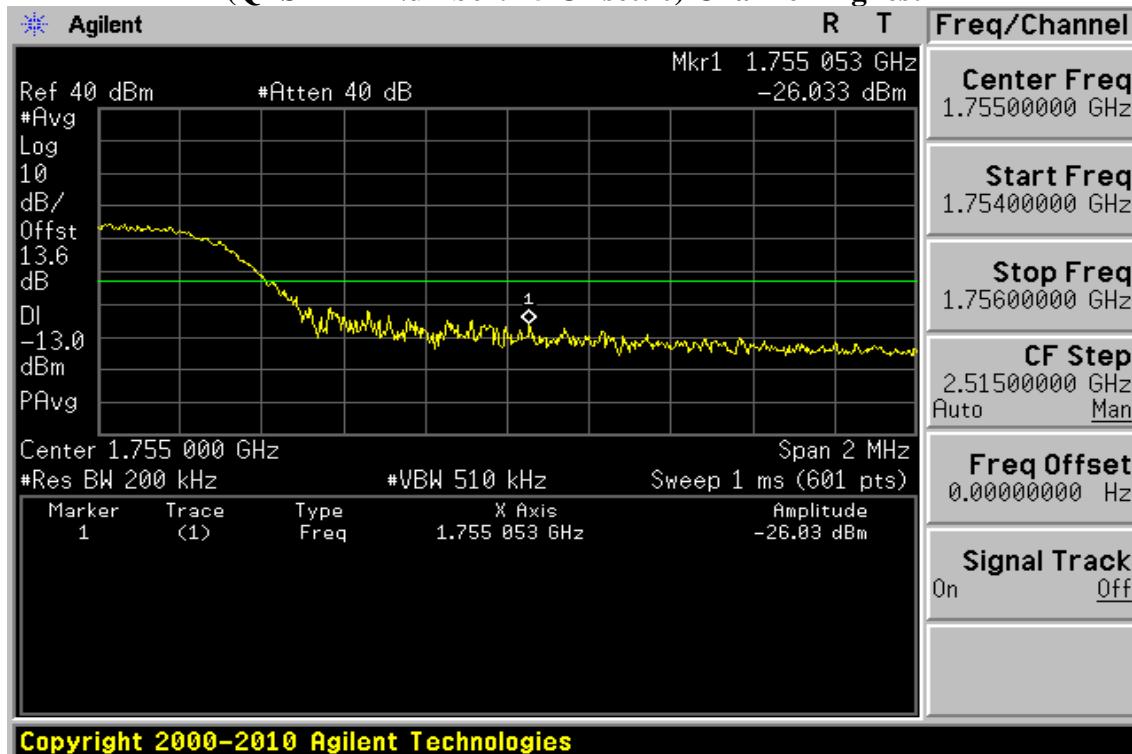
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**Figure 10-199: Band edge emission at antenna terminals –15MHz BW LTE-Band 4
(QPSK RB Number: 75 Offset: 0) Channel Lowest**



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**Figure 10-200: Band edge emission at antenna terminals –15MHz BW LTE-Band 4
(QPSK RB Number: 75 Offset: 0) Channel Highest**



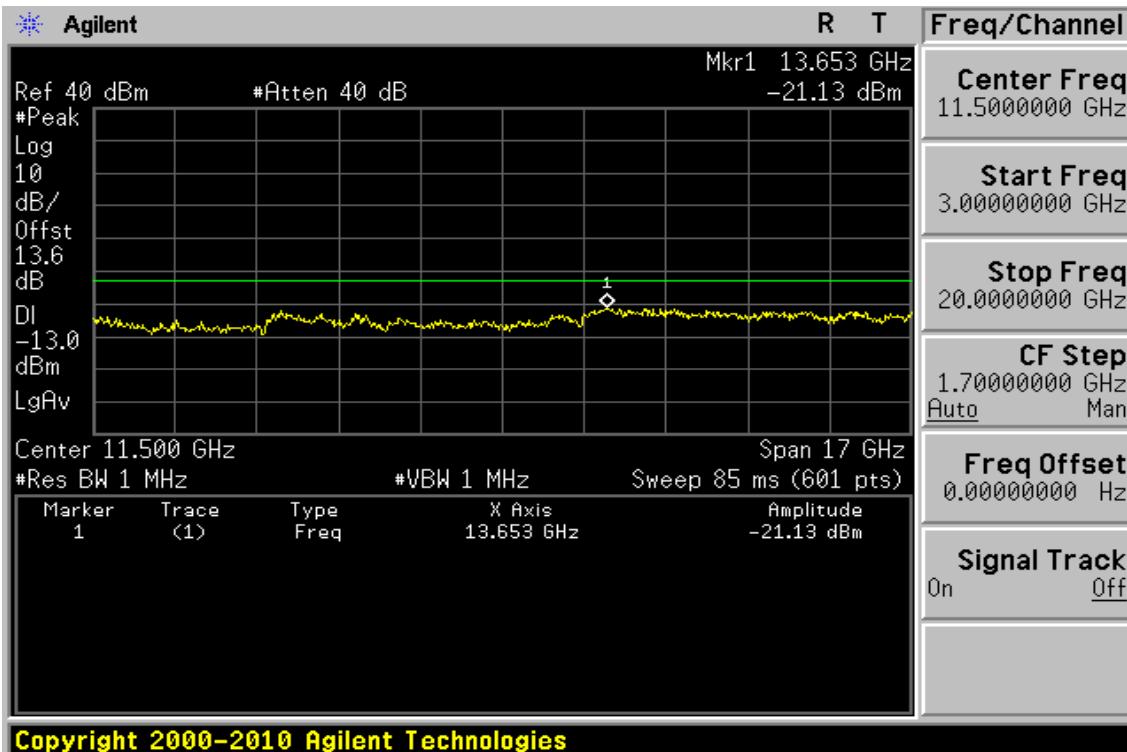
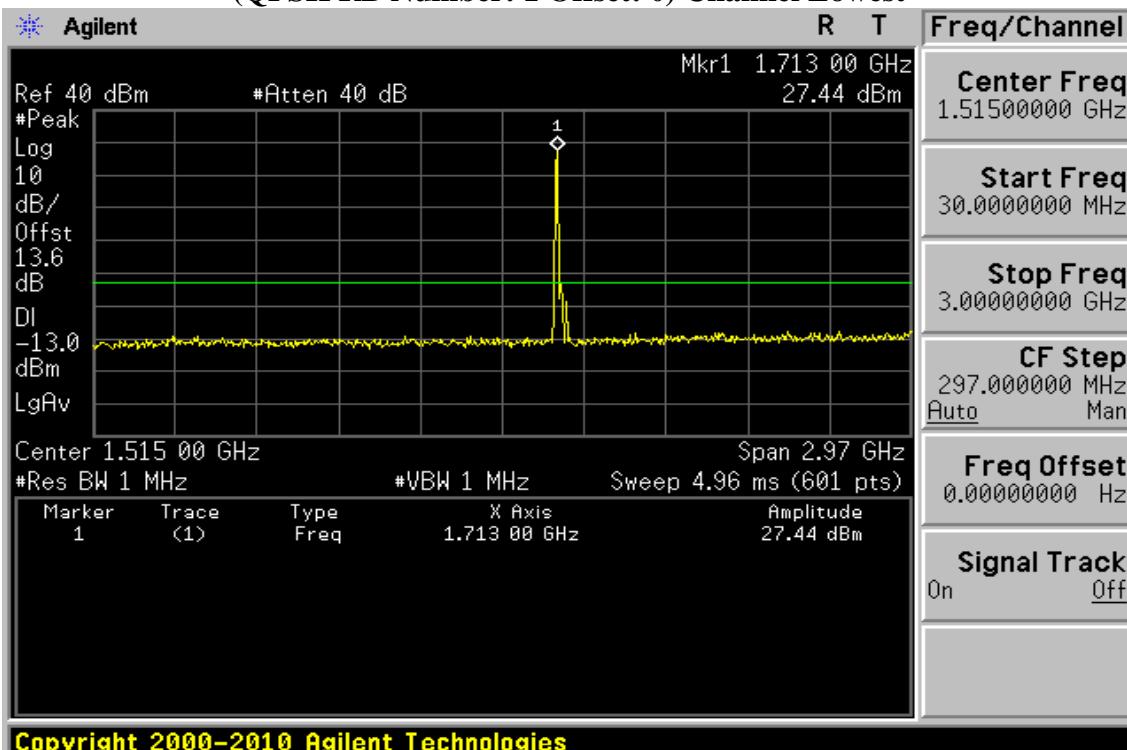
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**Figure 10-201: Out of Band emission at antenna terminals–20MHz BW LTE-Band 4
(QPSK RB Number: 1 Offset: 0) Channel Lowest**

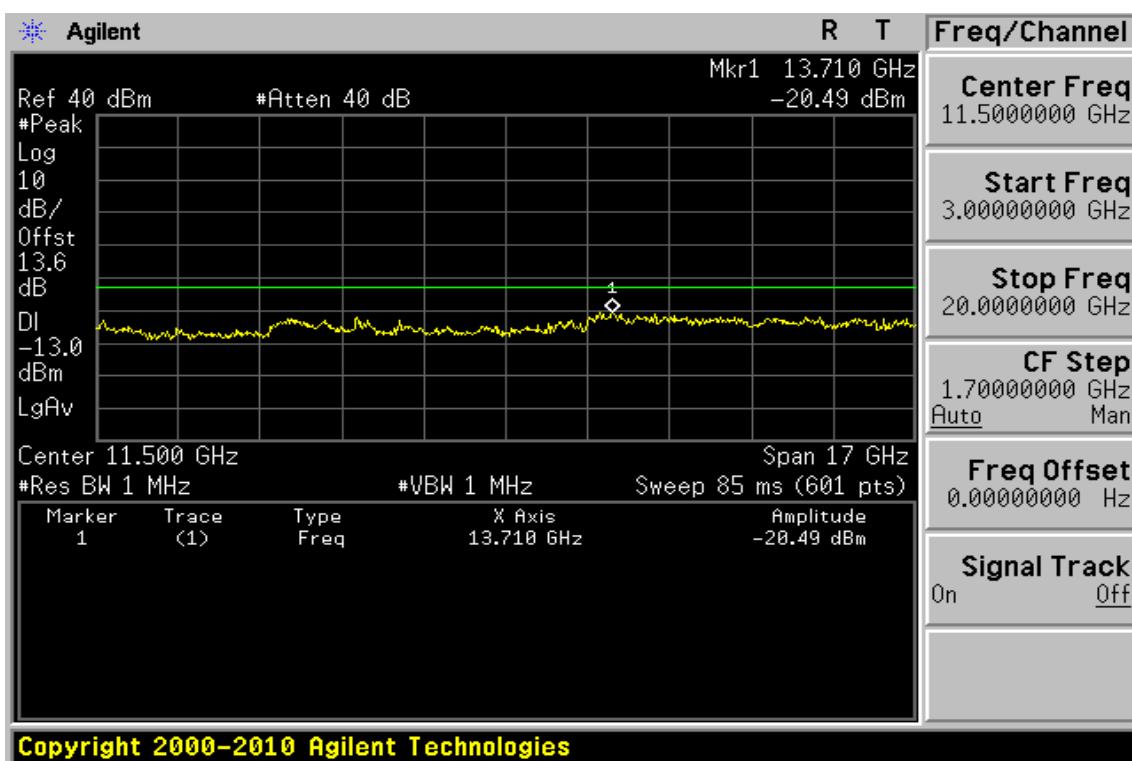
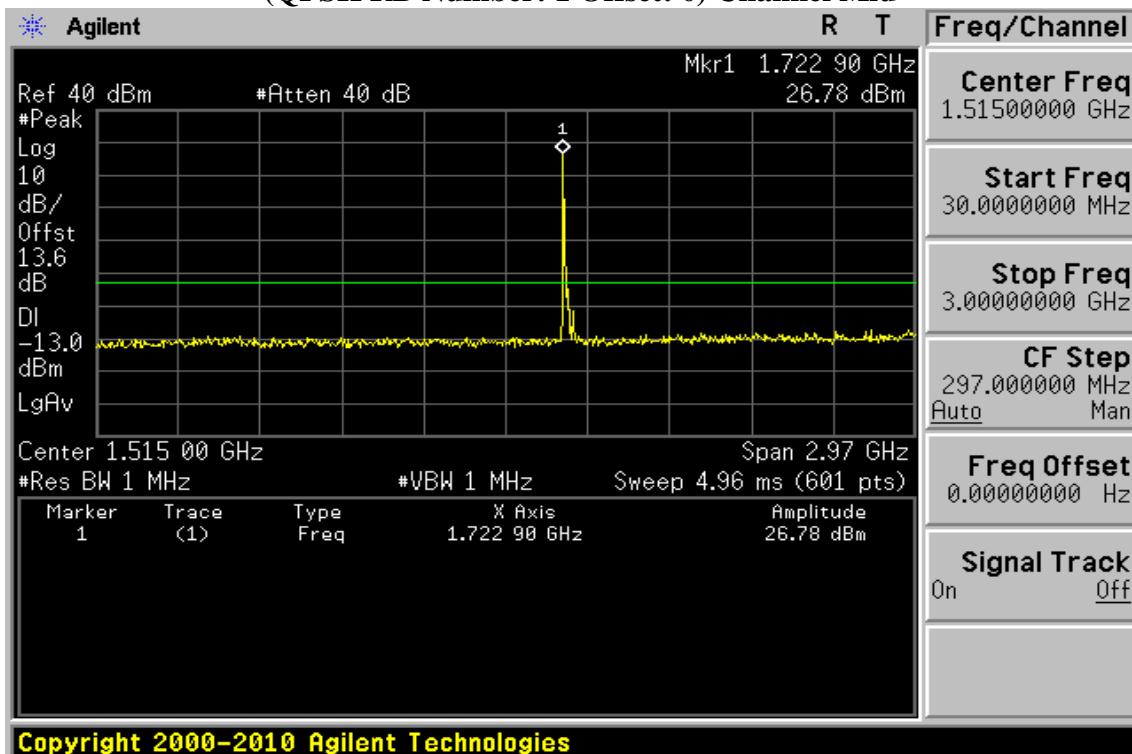


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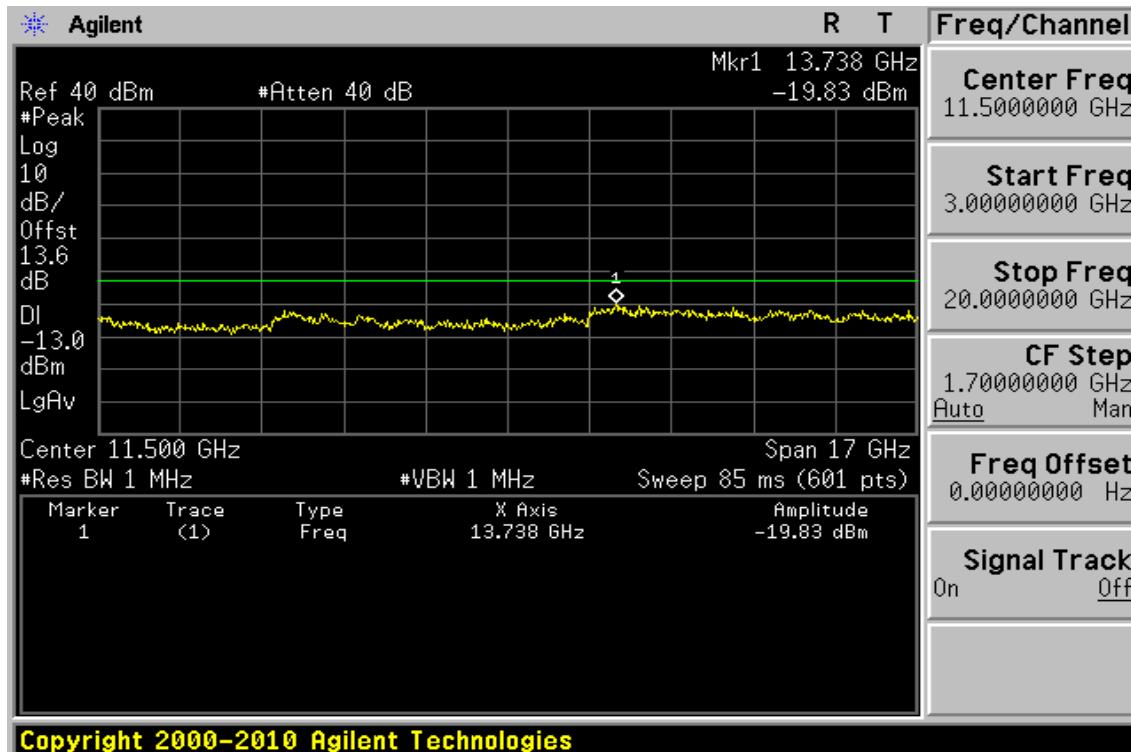
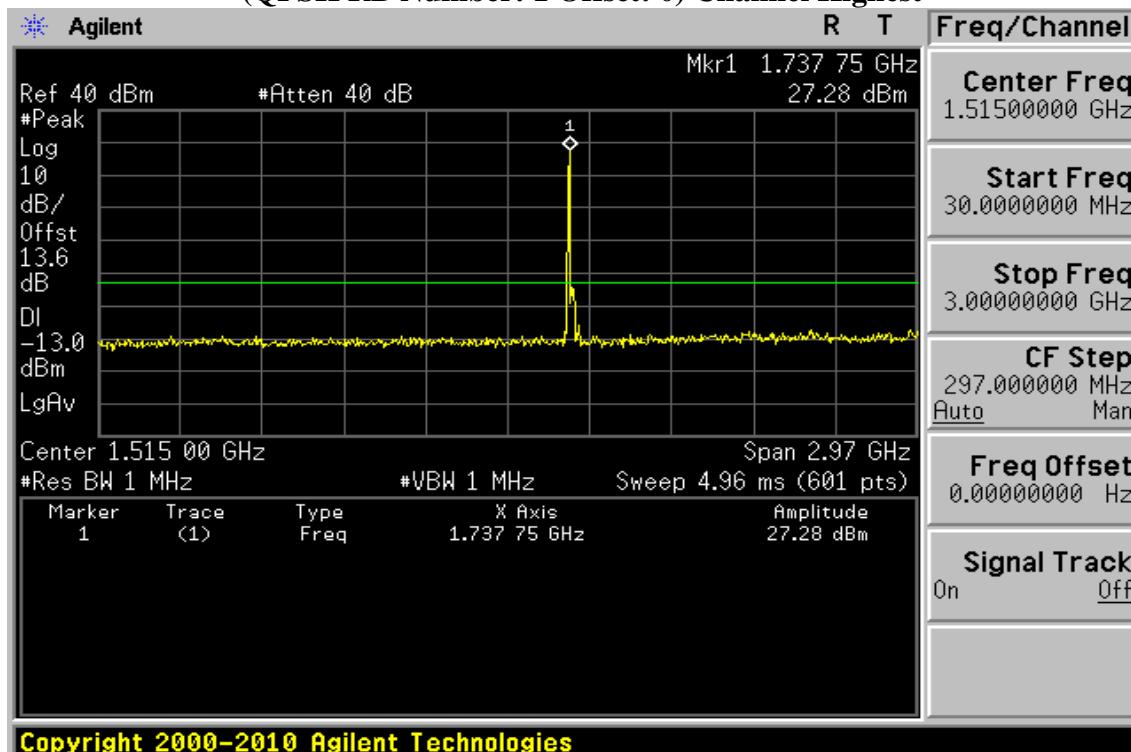
Figure 10-202: Out of Band emission at antenna terminals –20MHz BW LTE-Band 4
(QPSK RB Number: 1 Offset: 0) Channel Mid



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**Figure 10-203: Out of Band emission at antenna terminals–20MHz BW LTE-Band 4
(QPSK RB Number: 1 Offset: 0) Channel Highest**

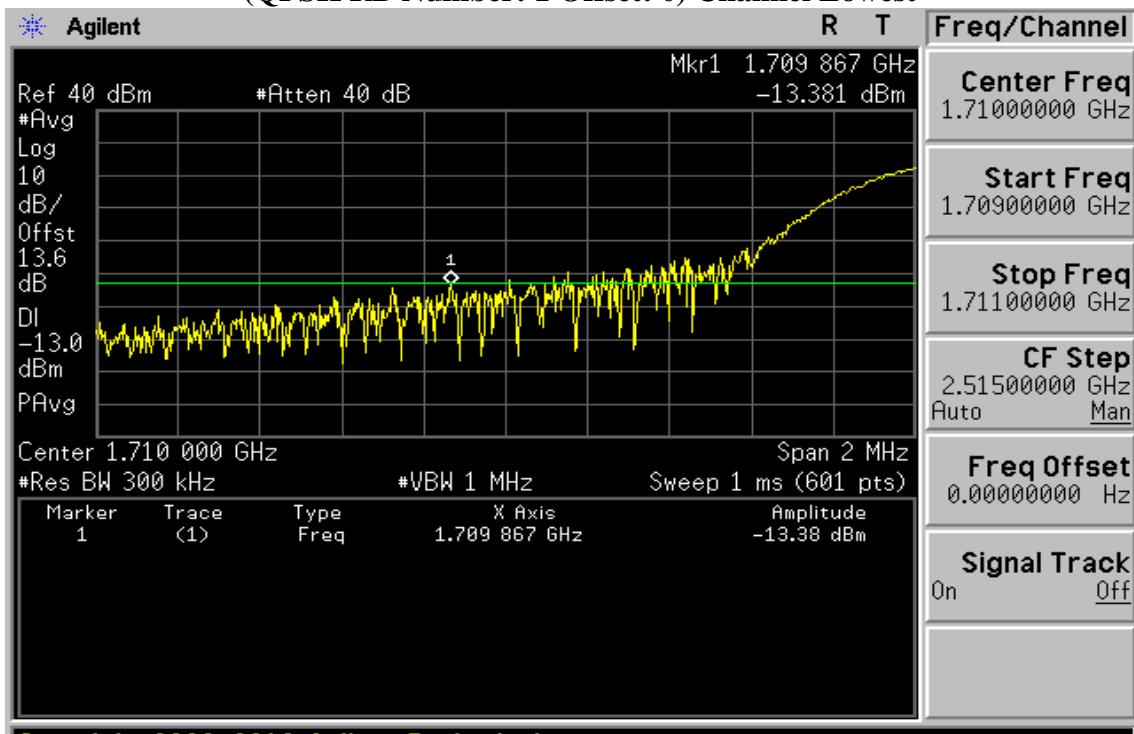


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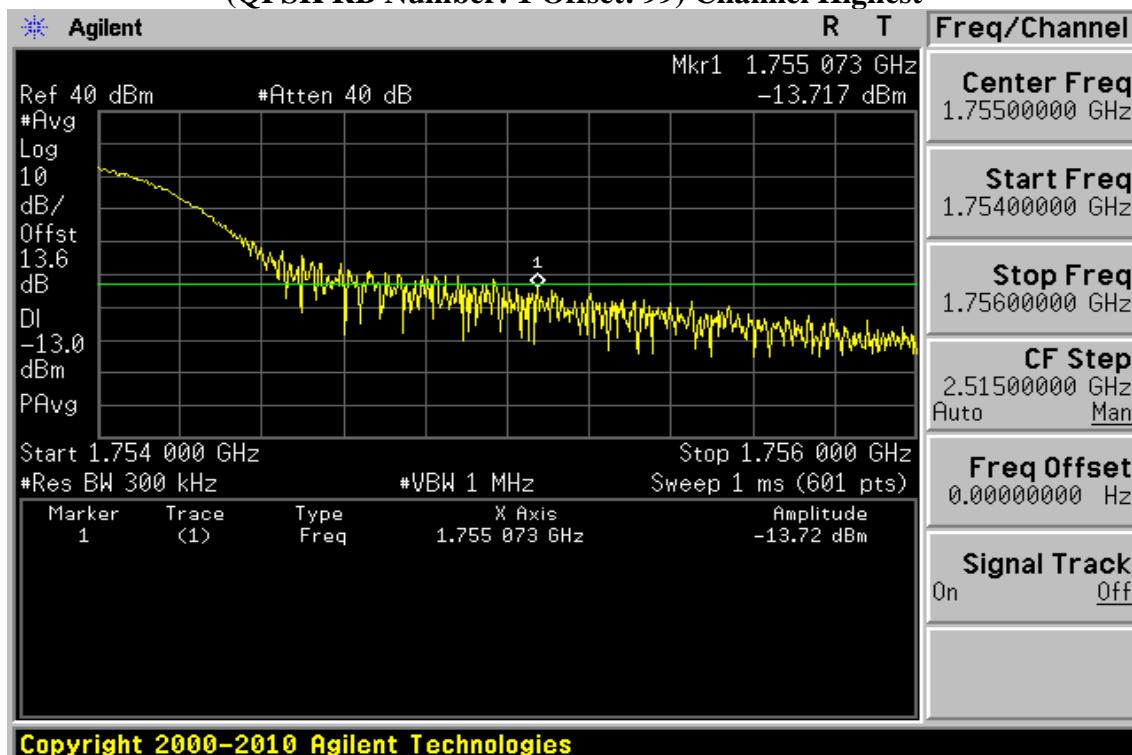
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**Figure 10-204: Band edge emission at antenna terminals –20MHz BW LTE-Band 4
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



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**Figure 10-205: Band edge emission at antenna terminals –20MHz BW LTE-Band 4
(QPSK RB Number: 1 Offset: 99) Channel Highest**



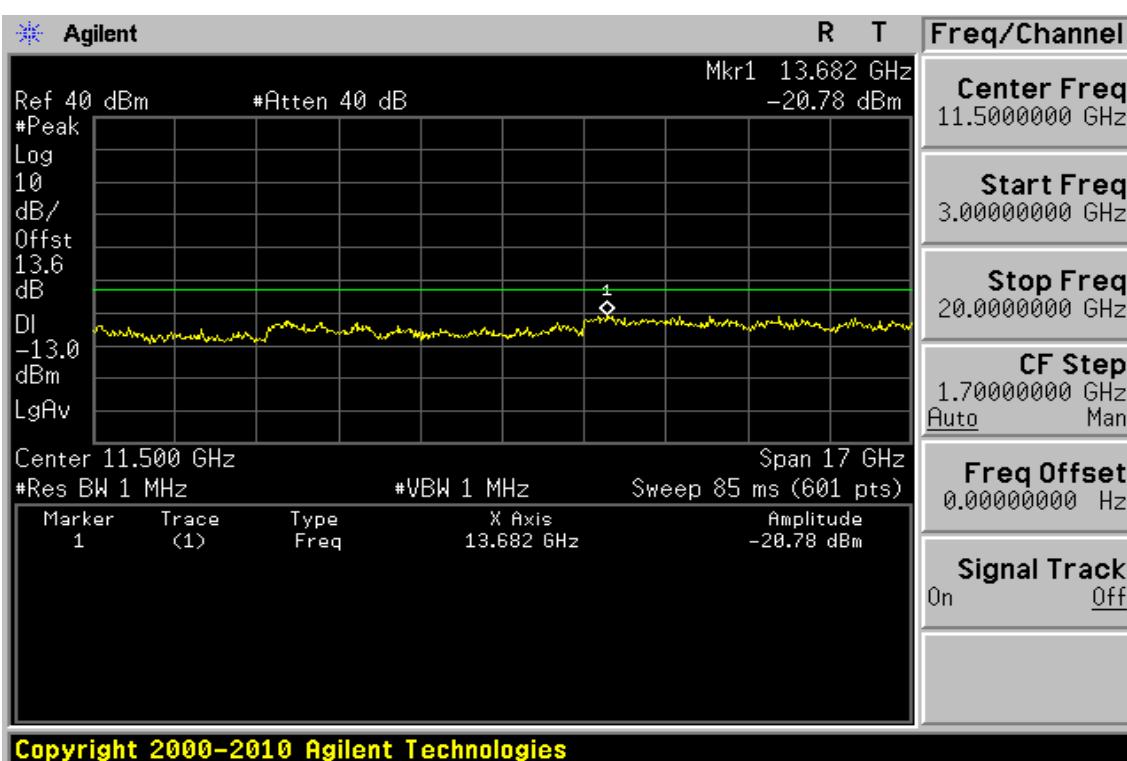
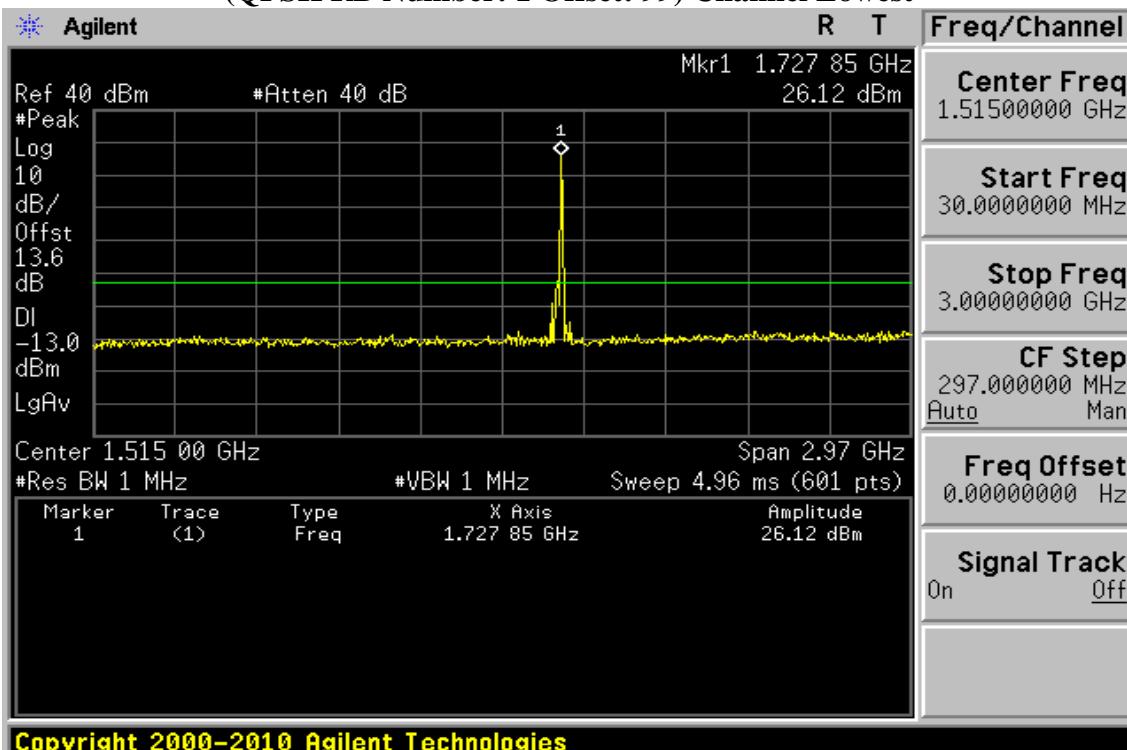
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**Figure 10-206: Out of Band emission at antenna terminals–20MHz BW LTE-Band 4
(QPSK RB Number: 1 Offset: 99) Channel Lowest**

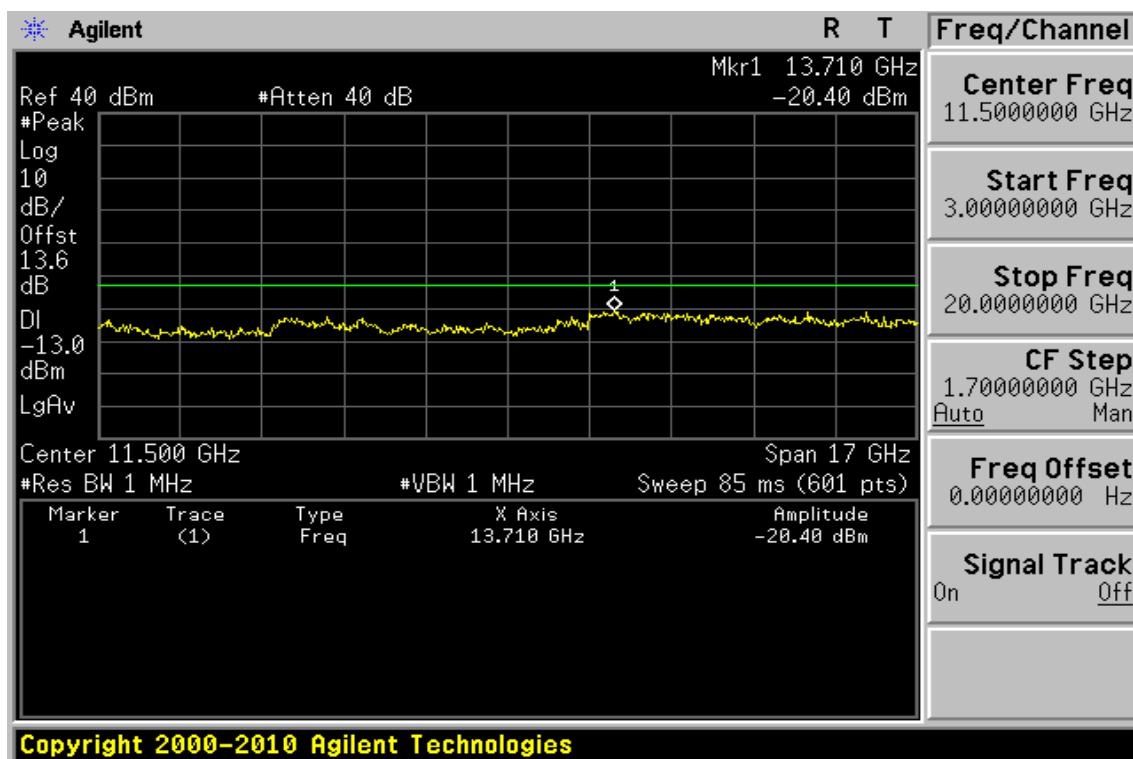
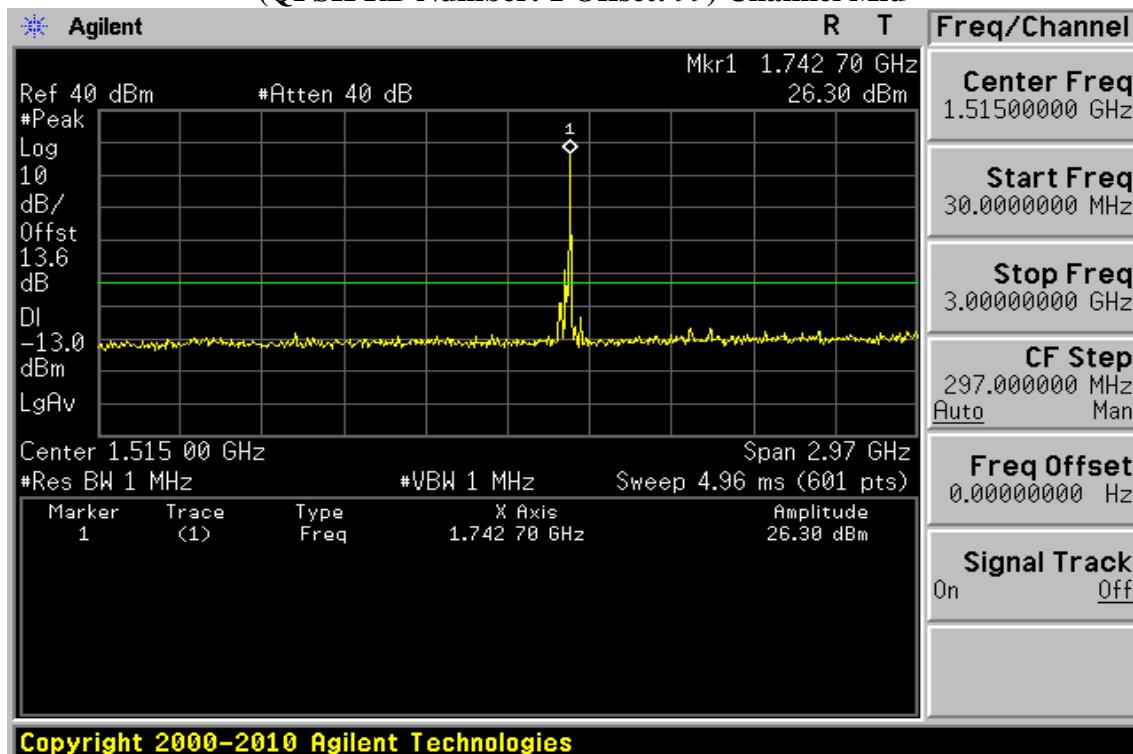


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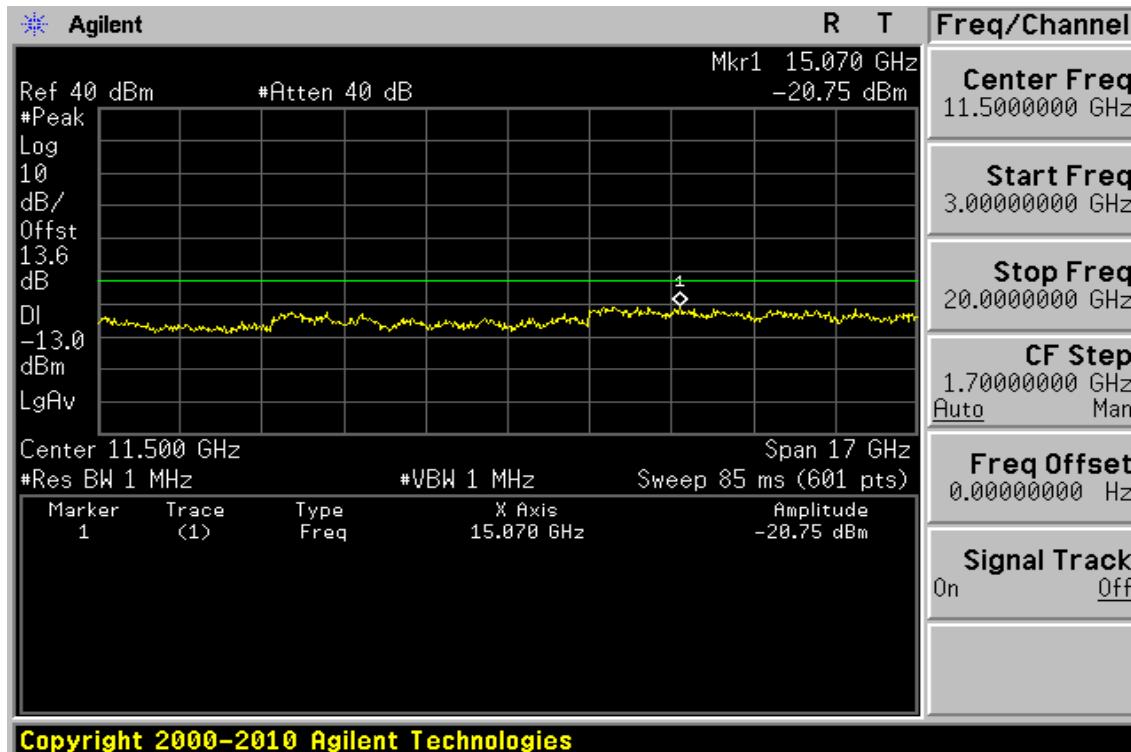
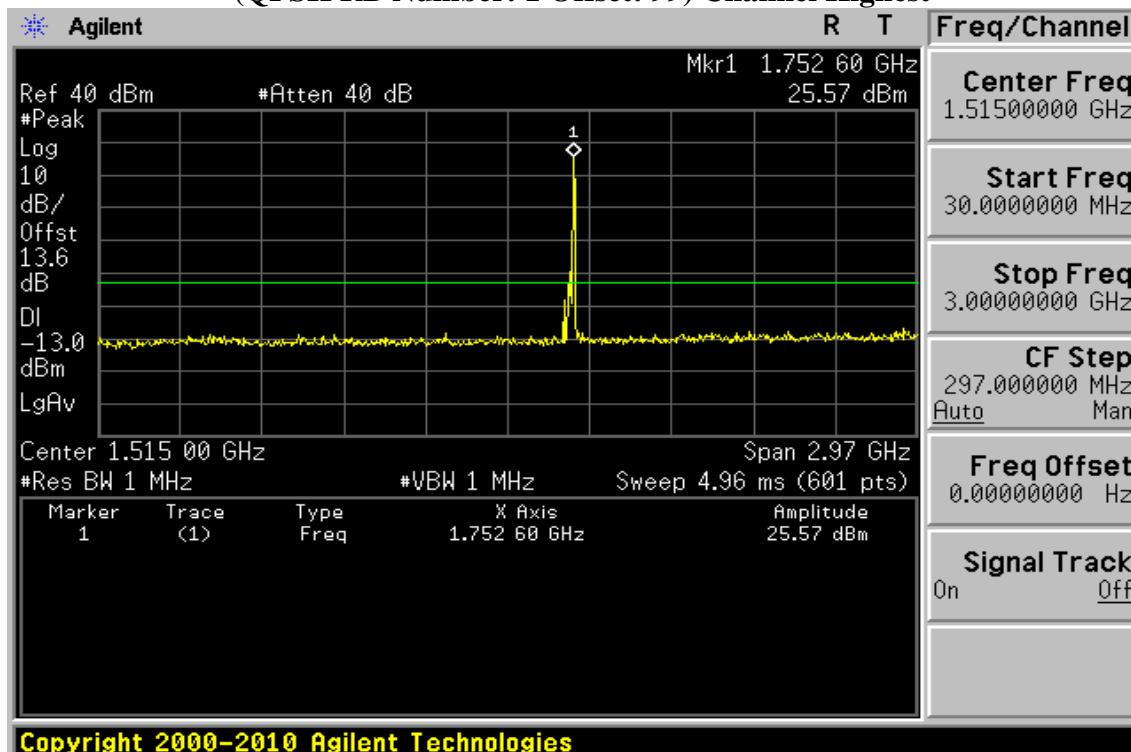
Figure 10-207: Out of Band emission at antenna terminals –20MHz BW LTE-Band 4
(QPSK RB Number: 1 Offset: 99) Channel Mid



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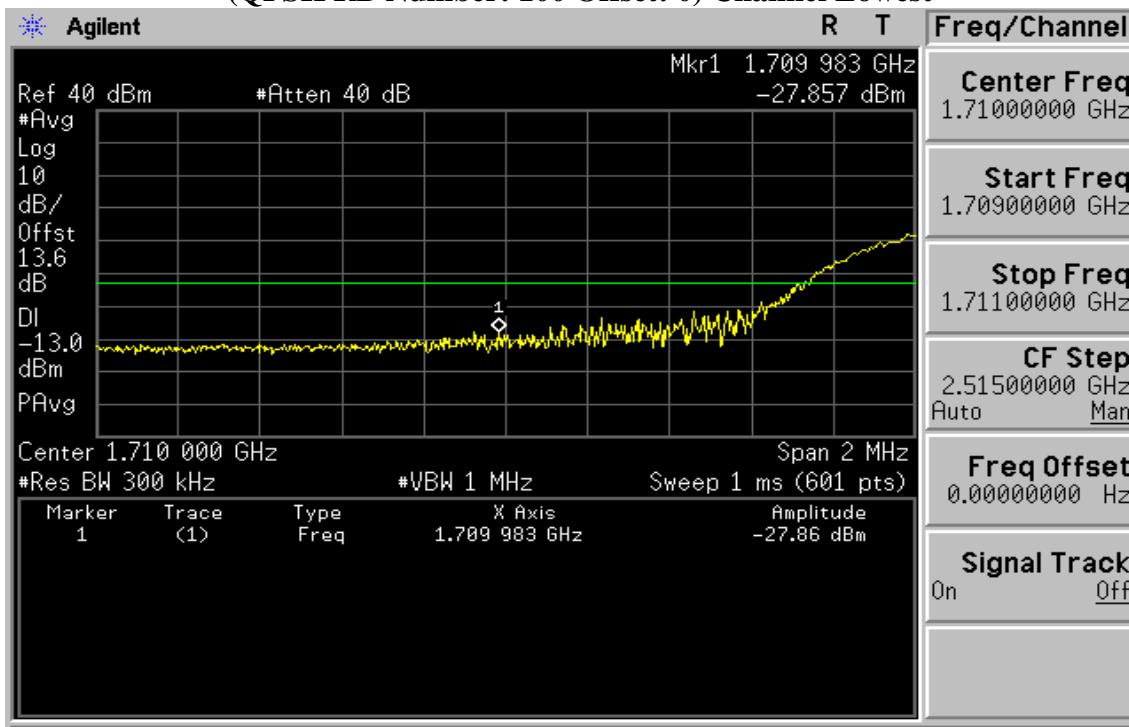
Figure 10-208: Out of Band emission at antenna terminals—20MHz BW LTE-Band 4
(QPSK RB Number: 1 Offset: 99) Channel Highest

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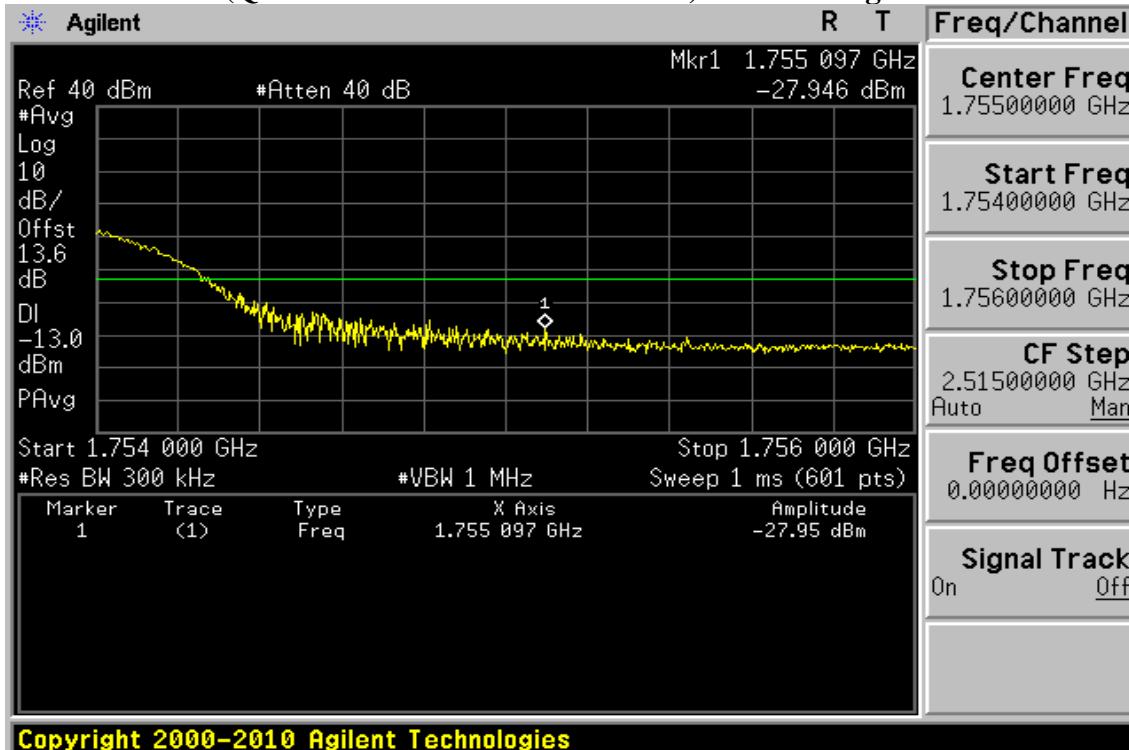
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**Figure 10-209: Band edge emission at antenna terminals –20MHz BW LTE-Band 4
(QPSK RB Number: 100 Offset: 0) Channel Lowest**



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**Figure 10-210: Band edge emission at antenna terminals –20MHz BW LTE-Band 4
(QPSK RB Number: 100 Offset: 0) Channel Highest**



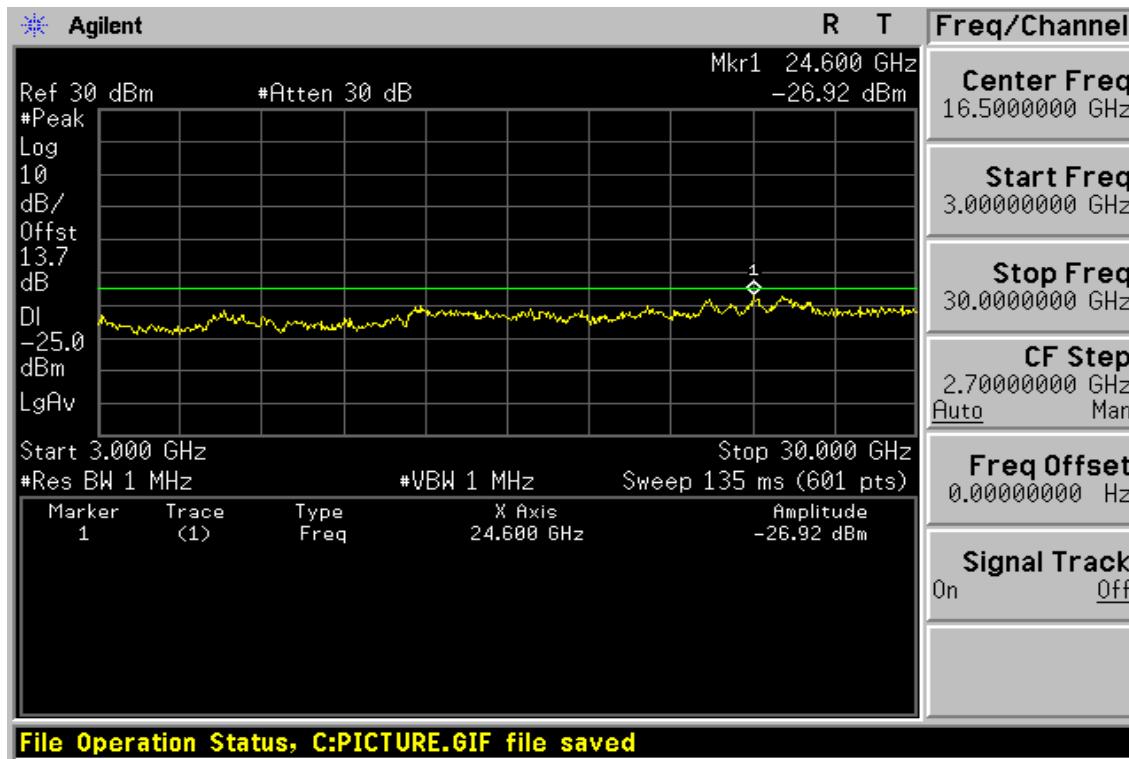
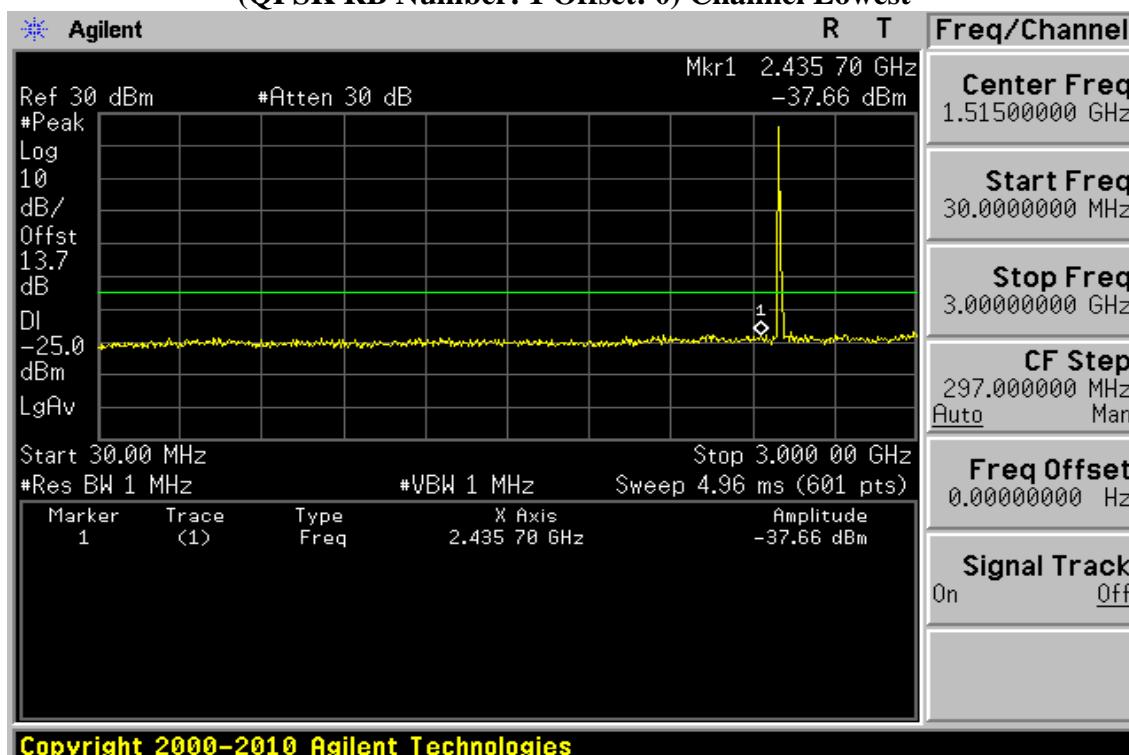
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**Figure 10-211: Out of Band emission at antenna terminals—5MHz BW LTE-Band 7
(QPSK RB Number: 1 Offset: 0) Channel Lowest**

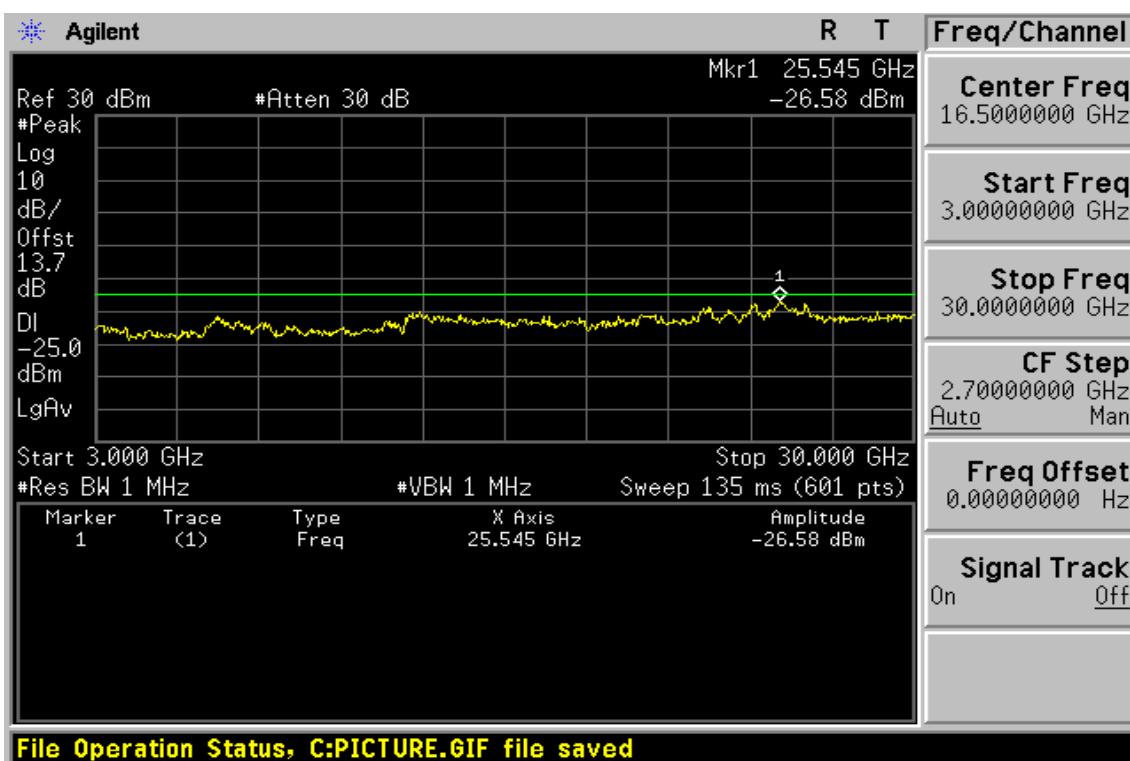
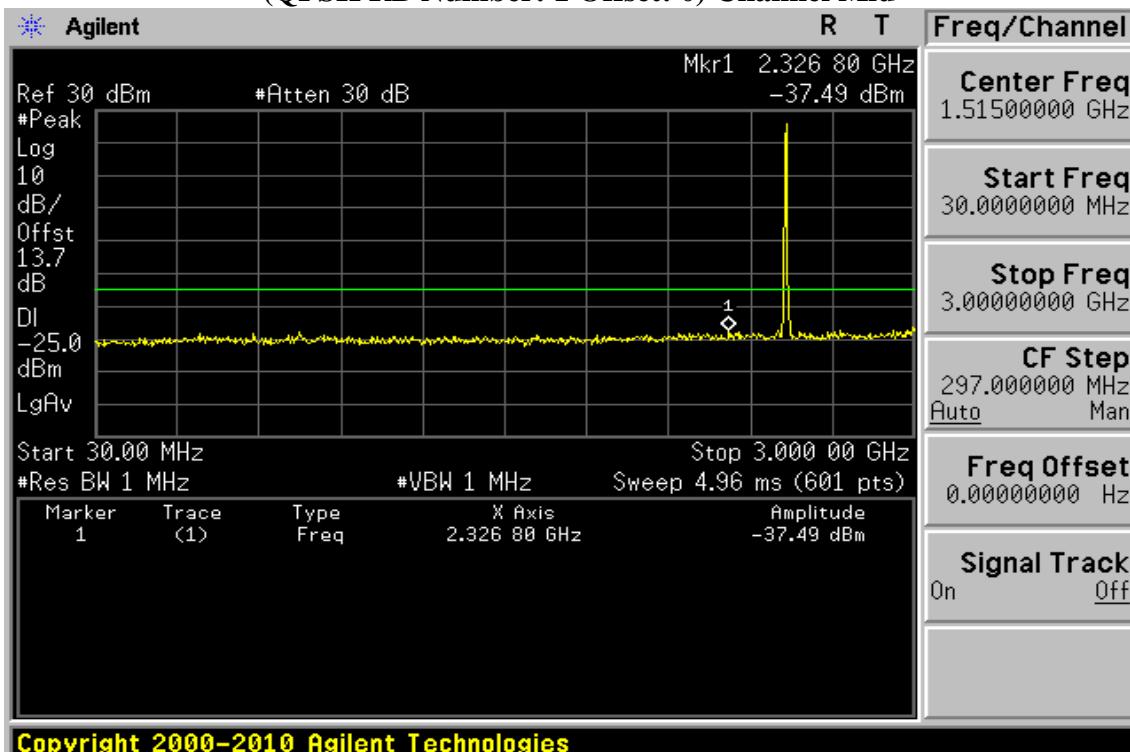


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**Figure 10-212: Out of Band emission at antenna terminals –5MHz BW LTE-Band 7
(QPSK RB Number: 1 Offset: 0) Channel Mid**

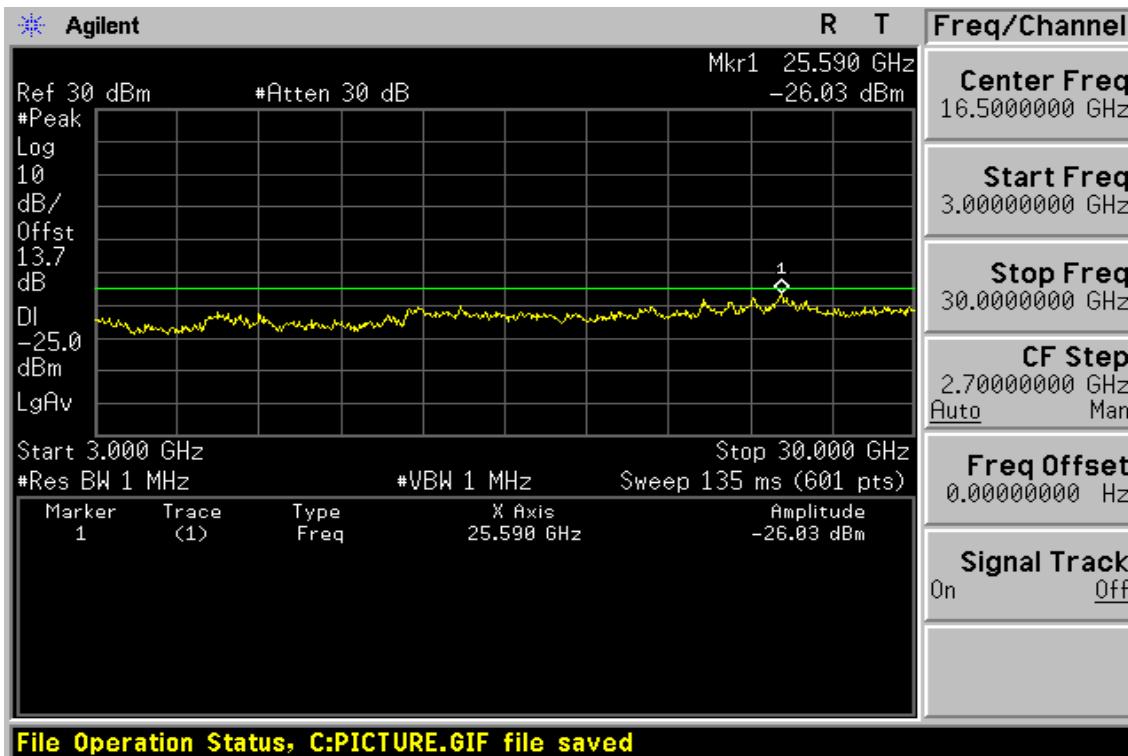
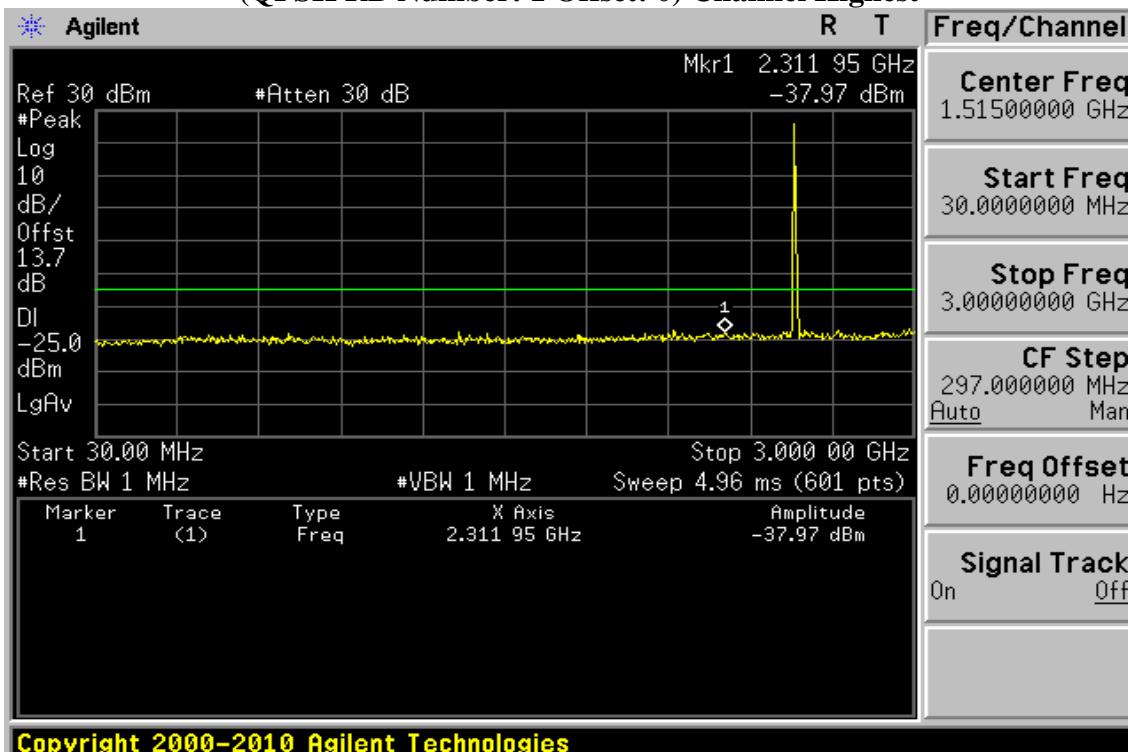


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**Figure 10-213: Out of Band emission at antenna terminals—5MHz BW LTE-Band 7
(QPSK RB Number: 1 Offset: 0) Channel Highest**

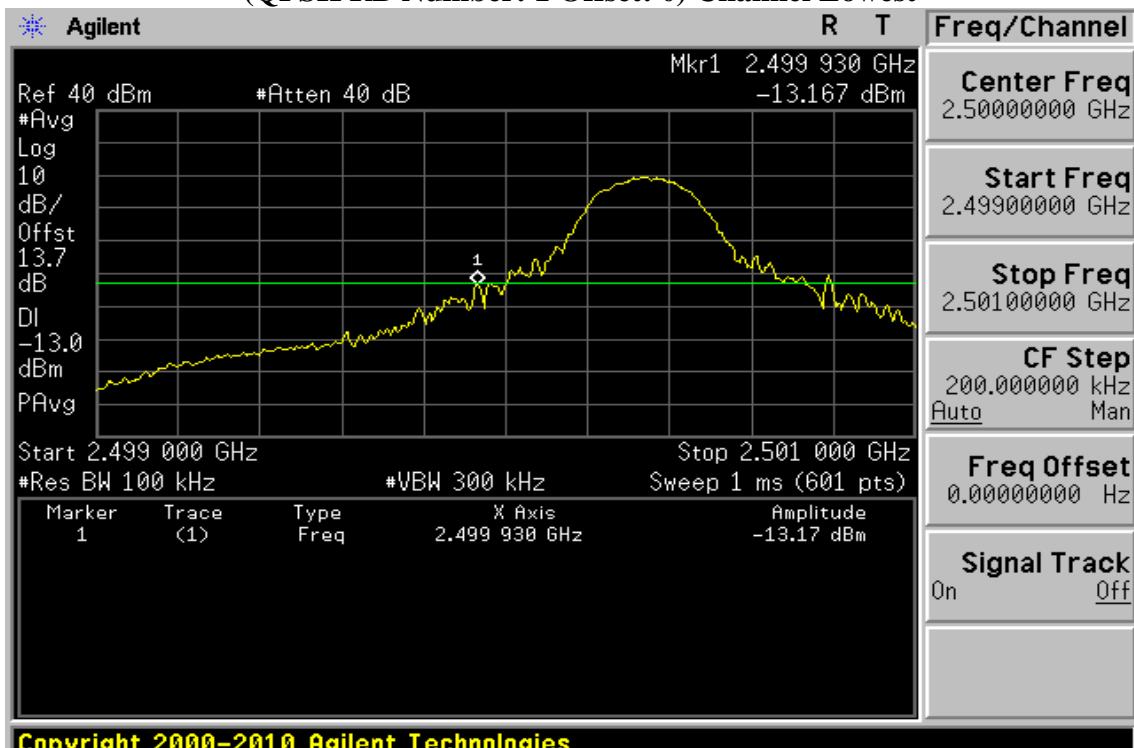


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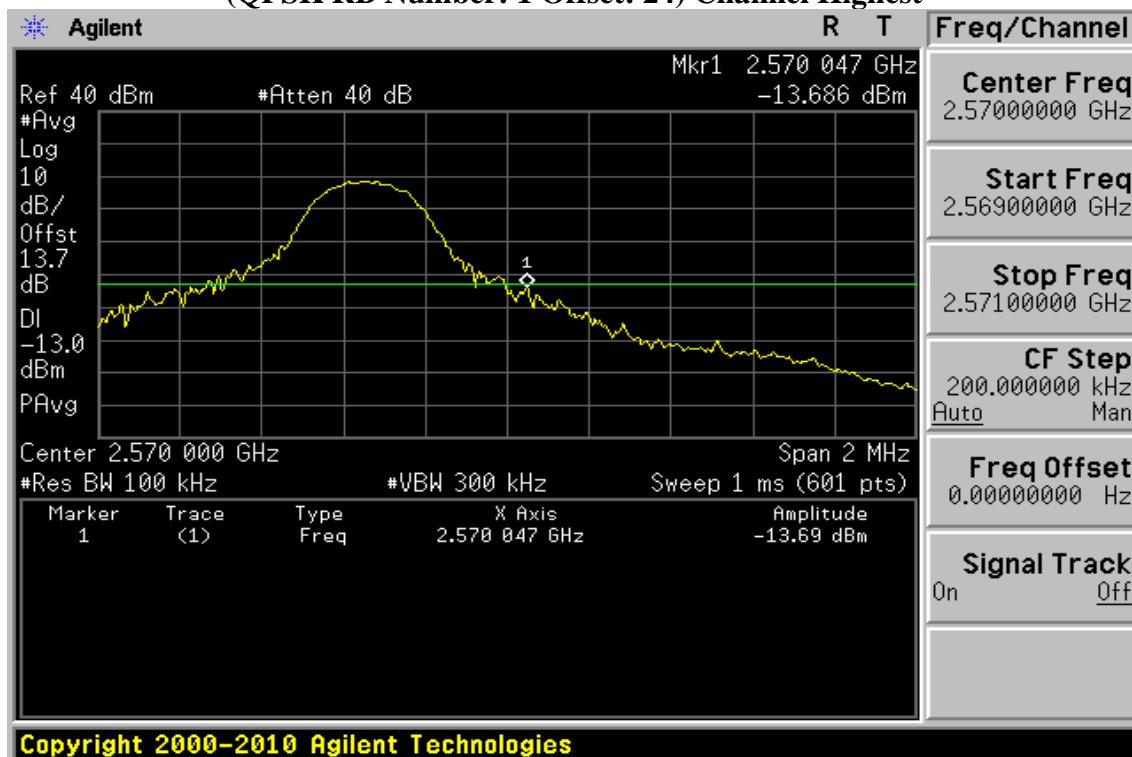
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**Figure 10-214: Band edge emission at antenna terminals –5MHz BW LTE-Band 7
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



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**Figure 10-215: Band edge emission at antenna terminals –5MHz BW LTE-Band 7
(QPSK RB Number: 1 Offset: 24) Channel Highest**



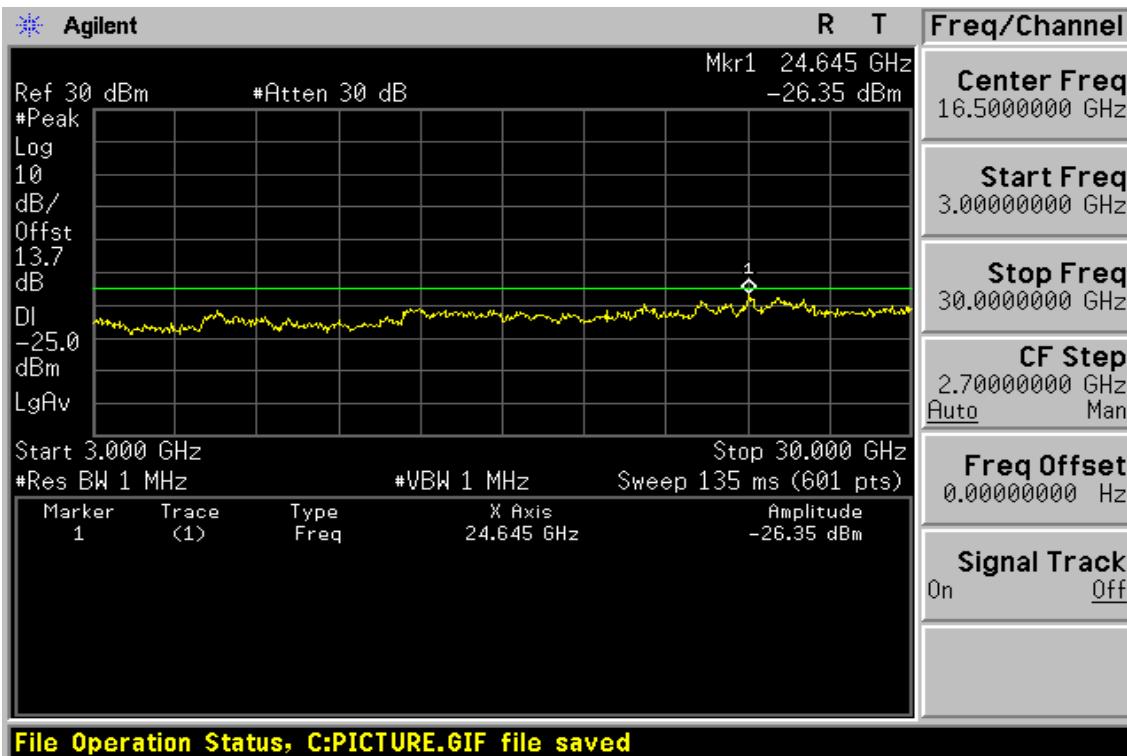
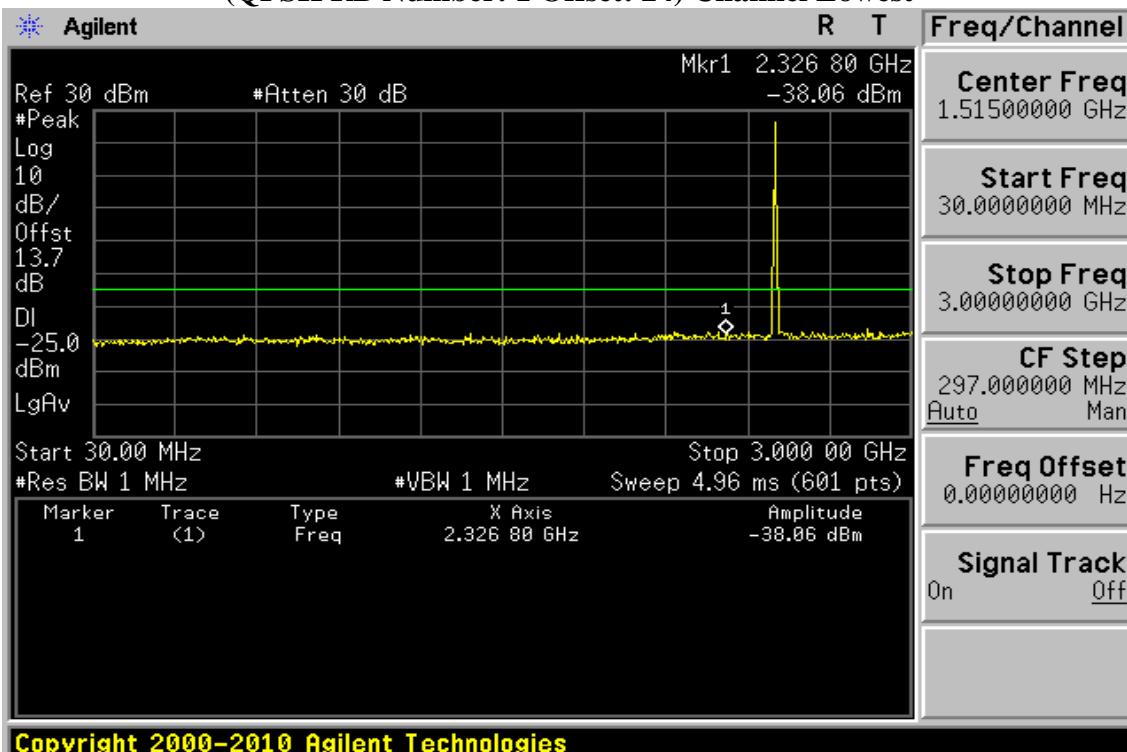
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**Figure 10-216: Out of Band emission at antenna terminals—5MHz BW LTE-Band 7
(QPSK RB Number: 1 Offset: 24) Channel Lowest**

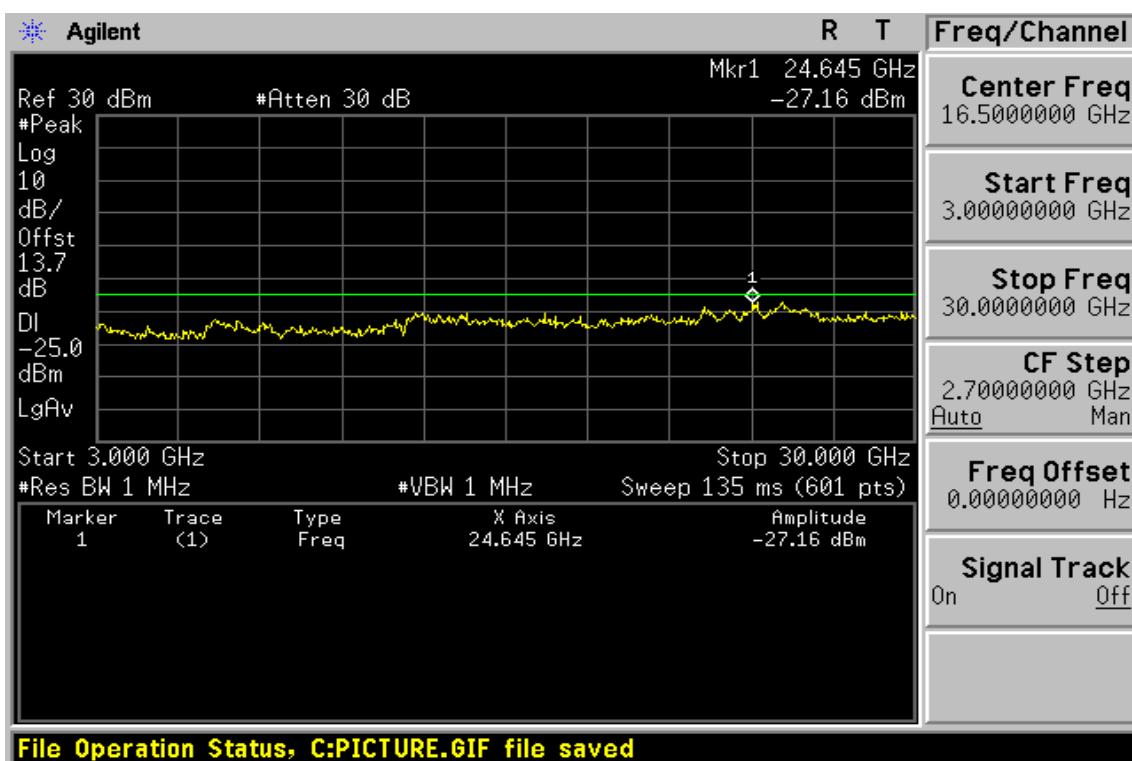
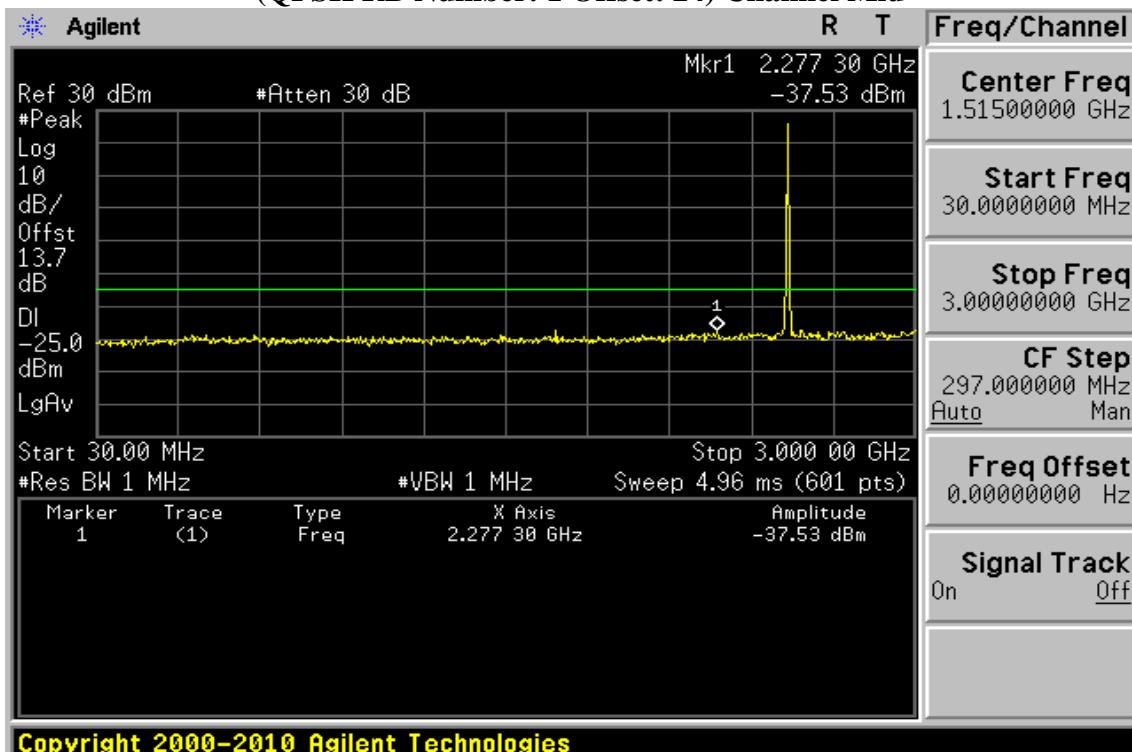


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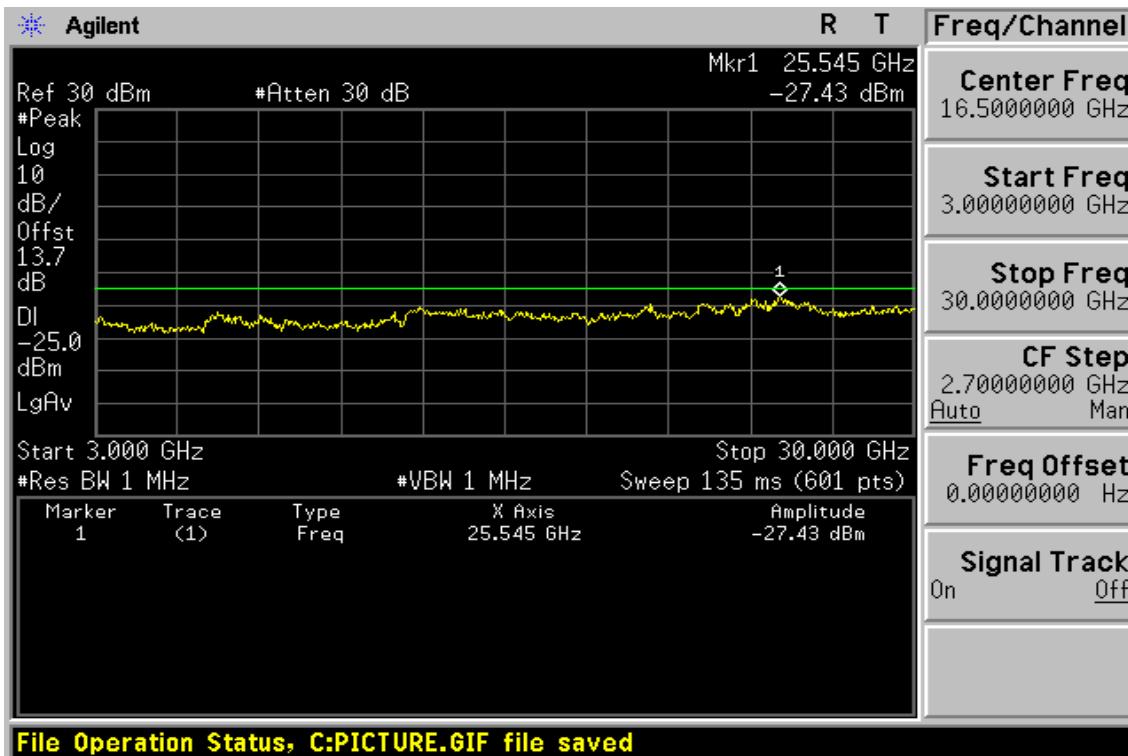
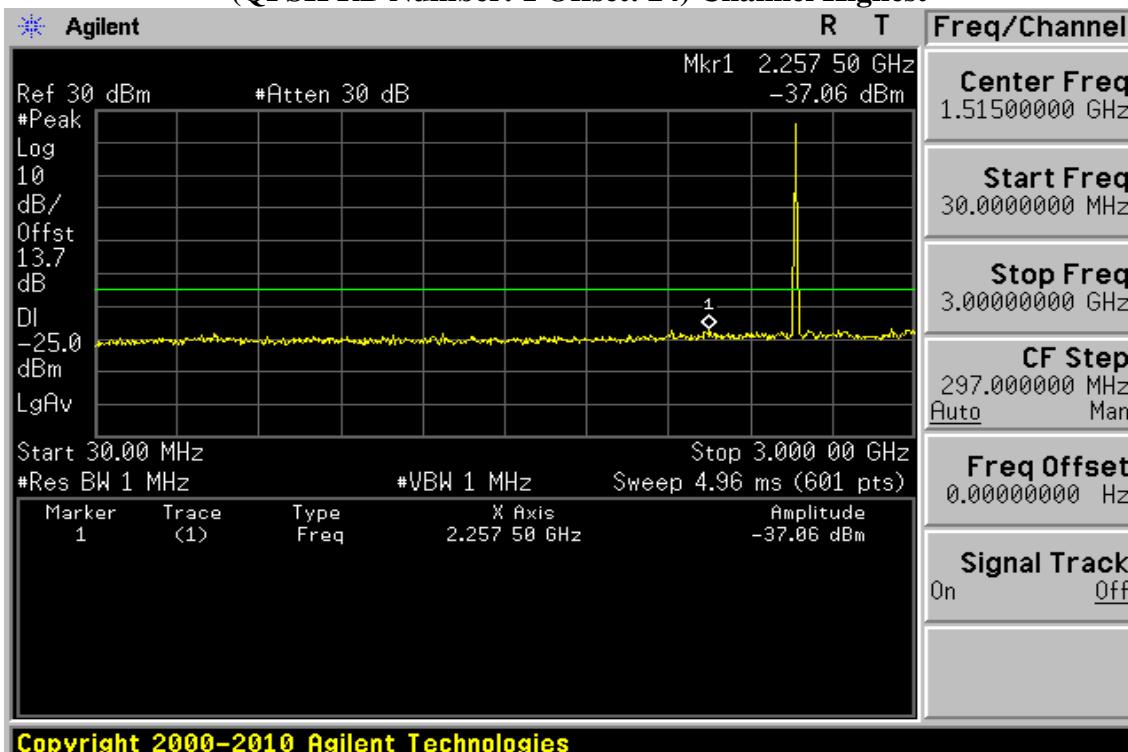
Figure 10-217: Out of Band emission at antenna terminals –5MHz BW LTE-Band 7
(QPSK RB Number: 1 Offset: 24) Channel Mid



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**Figure 10-218: Out of Band emission at antenna terminals—5MHz BW LTE-Band 7
(QPSK RB Number: 1 Offset: 24) Channel Highest**

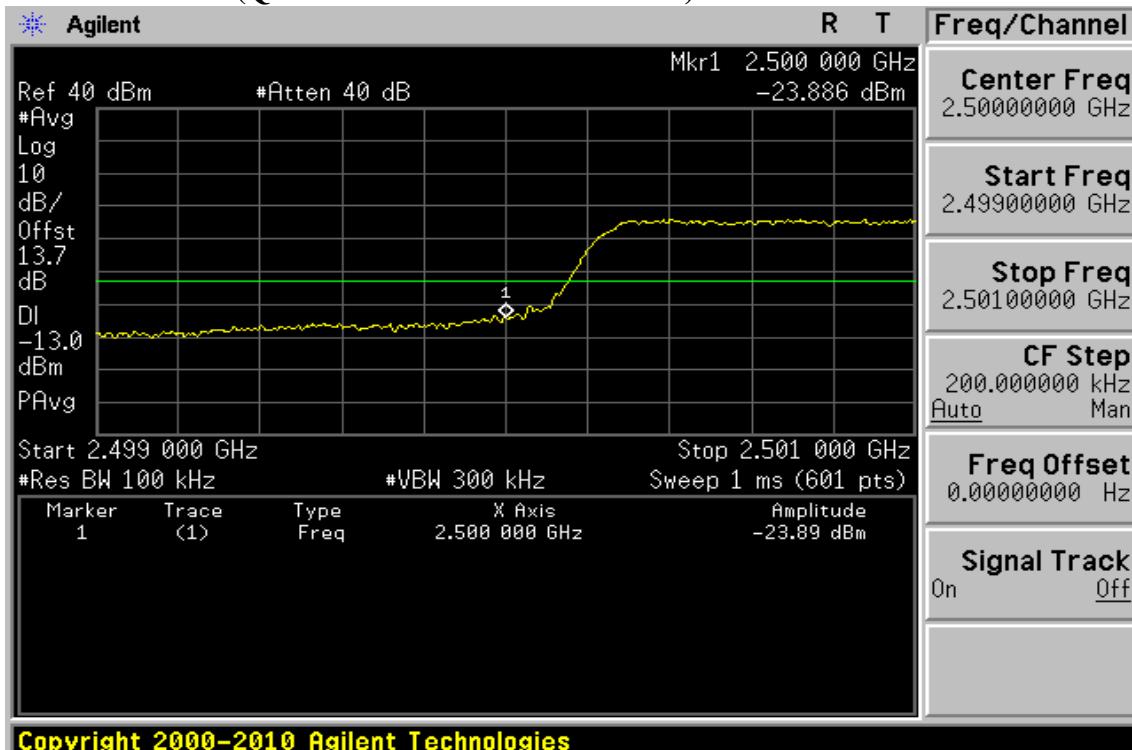


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**Figure 10-219: Band edge emission at antenna terminals –5MHz BW LTE-Band 7
(QPSK RB Number: 25 Offset: 0) Channel Lowest**



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**Figure 10-220: Band edge emission at antenna terminals –5MHz BW LTE-Band 7
(QPSK RB Number: 25 Offset: 0) Channel Highest**

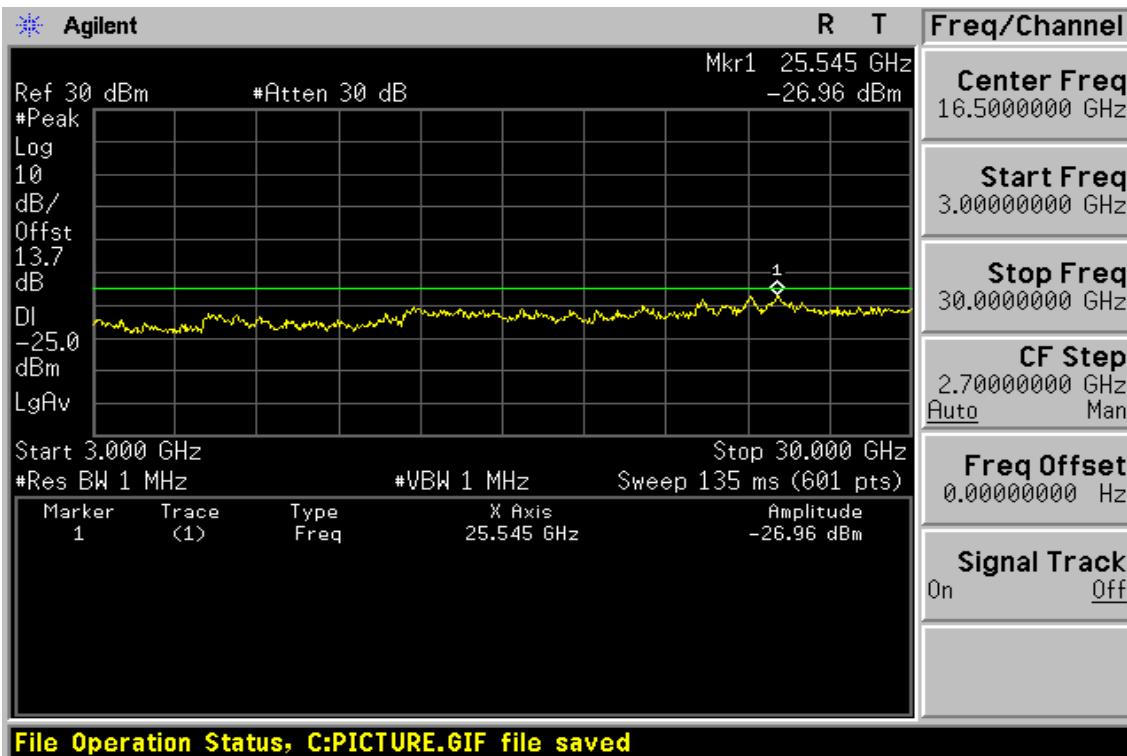
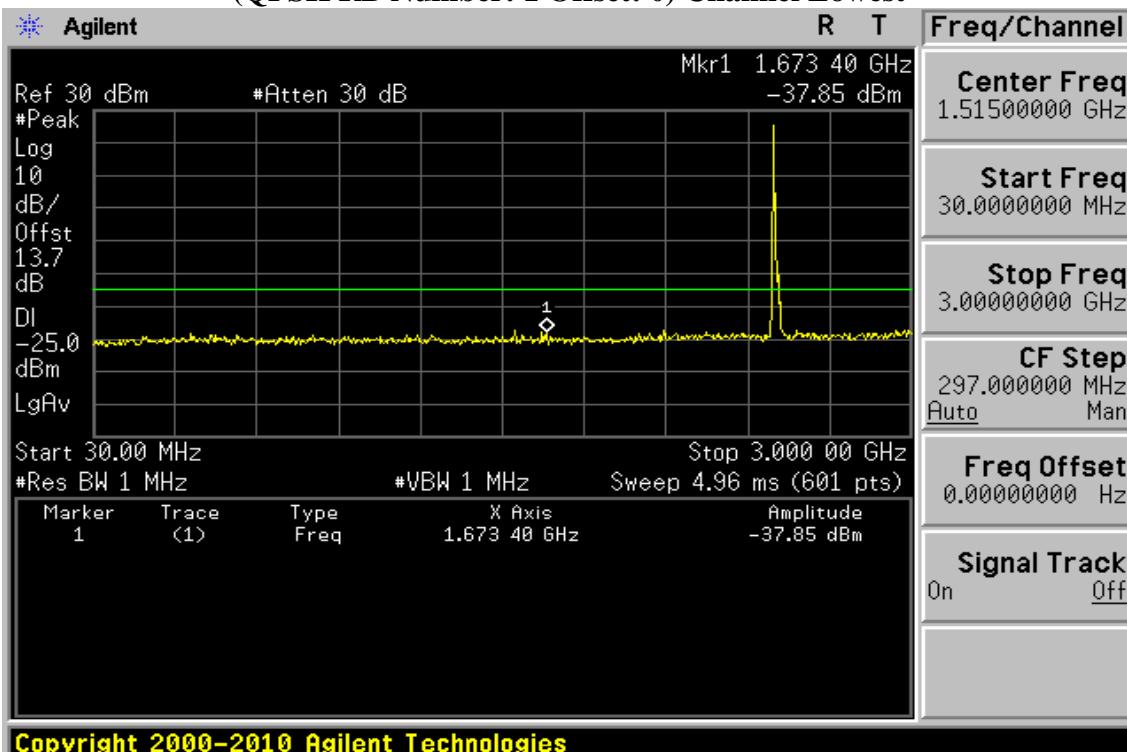


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**Figure 10-221: Out of Band emission at antenna terminals–10MHz BW LTE-Band 7
(QPSK RB Number: 1 Offset: 0) Channel Lowest**

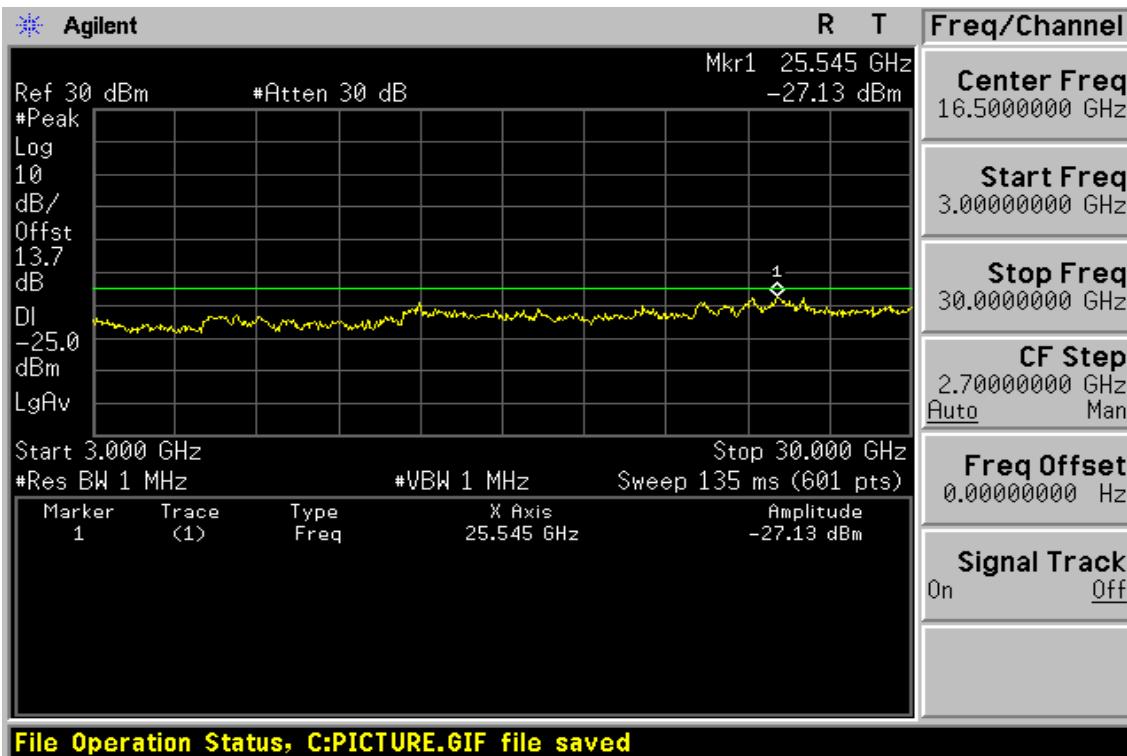
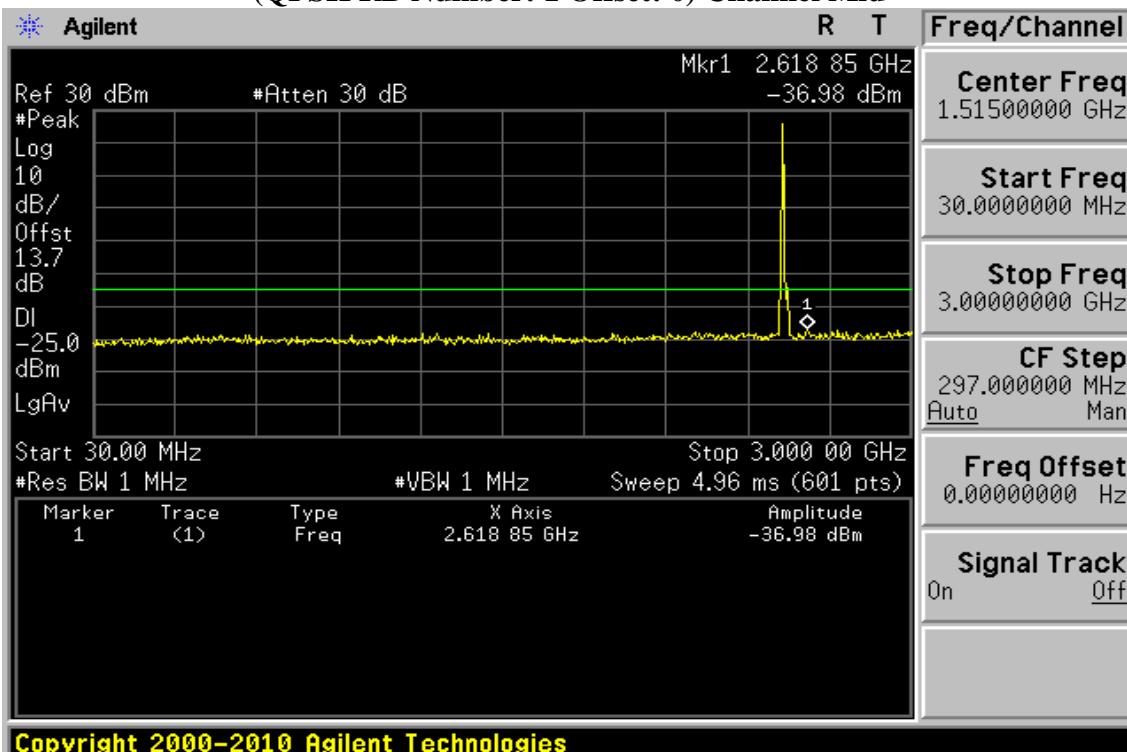


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**Figure 10-222: Out of Band emission at antenna terminals–10MHz BW LTE-Band 7
(QPSK RB Number: 1 Offset: 0) Channel Mid**

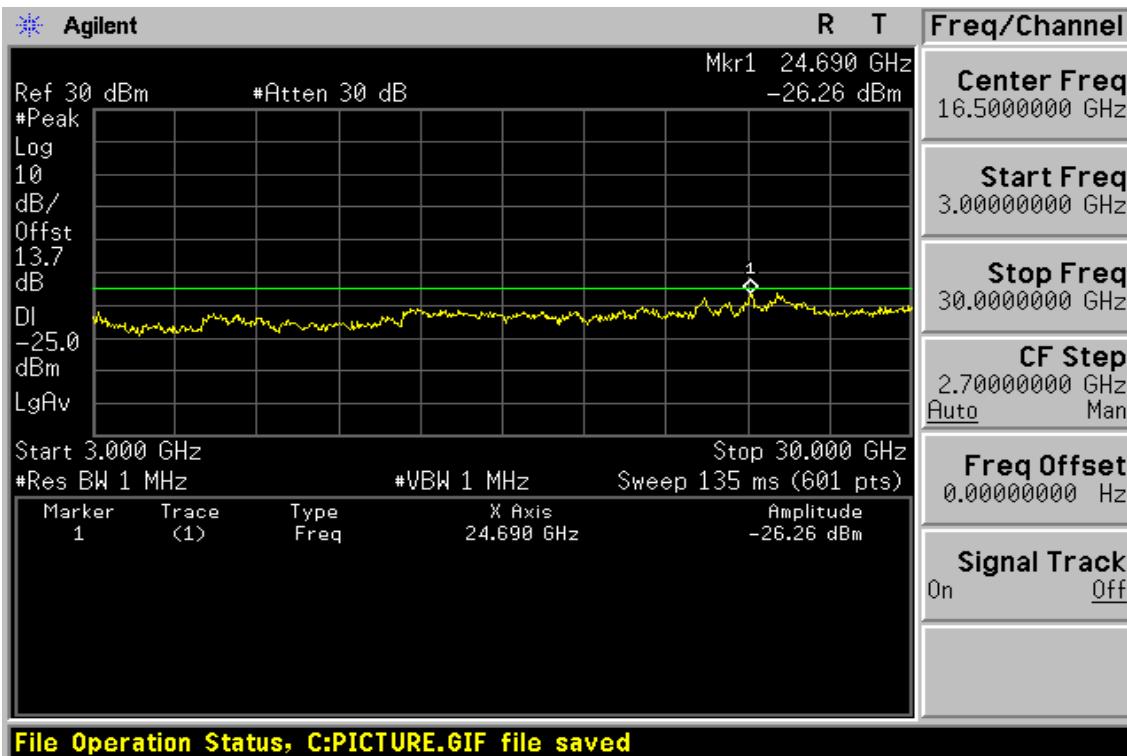
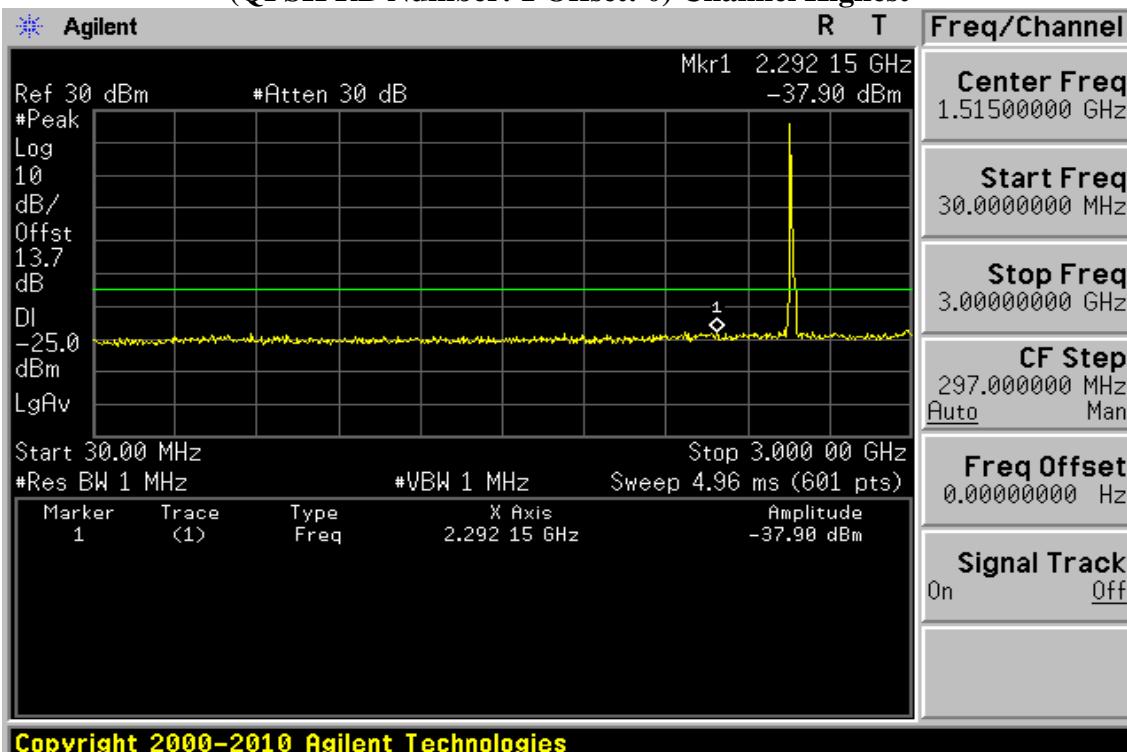


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**Figure 10-223: Out of Band emission at antenna terminals–10MHz BW LTE-Band 7
(QPSK RB Number: 1 Offset: 0) Channel Highest**

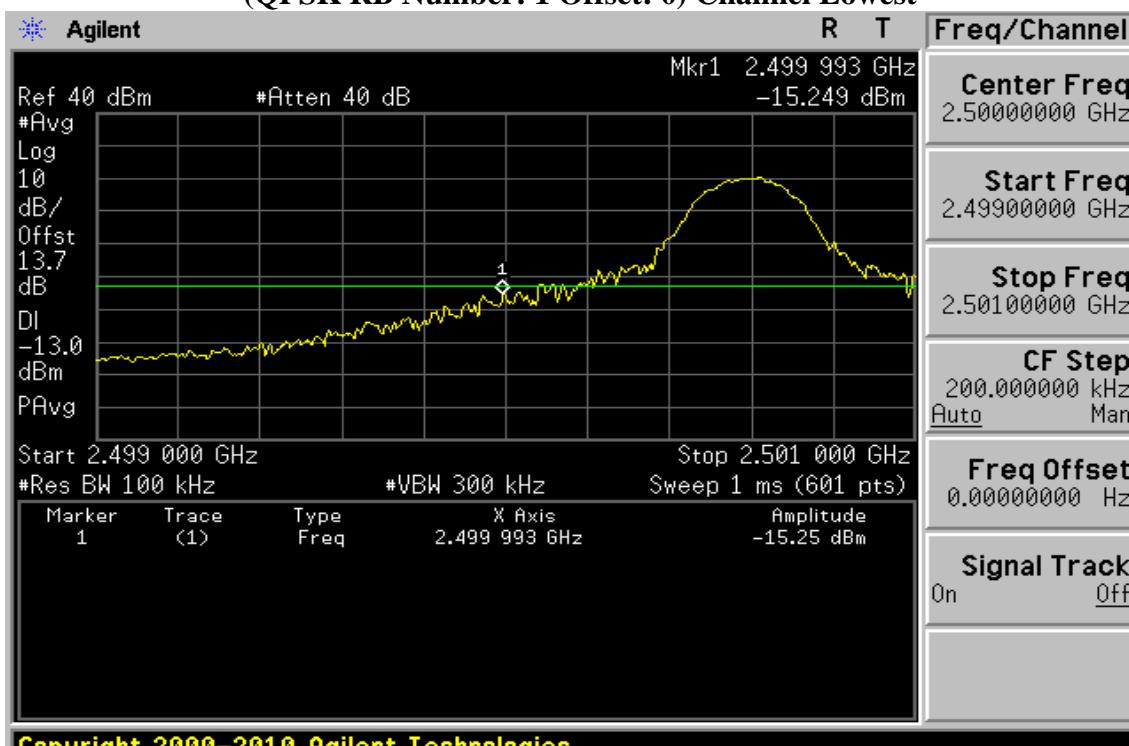


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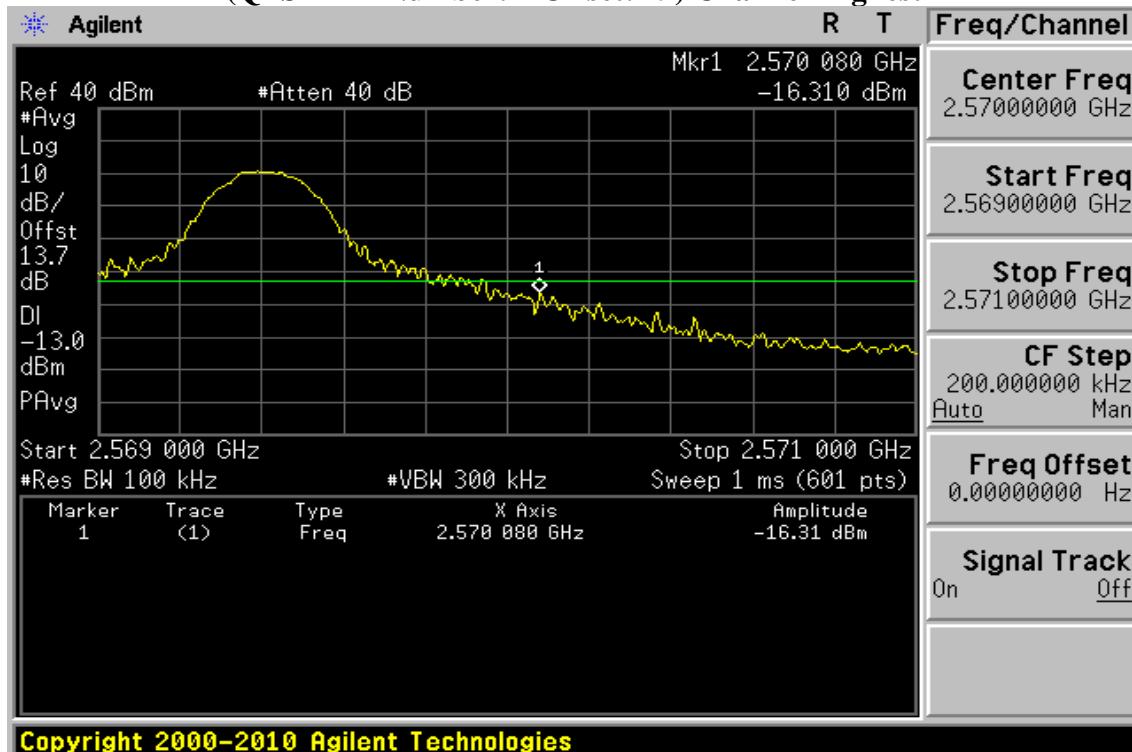
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**Figure 10-224: Band edge emission at antenna terminals –10MHz BW LTE-Band 7
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



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**Figure 10-225: Band edge emission at antenna terminals –10MHz BW LTE-Band 7
(QPSK RB Number: 1 Offset: 49) Channel Highest**



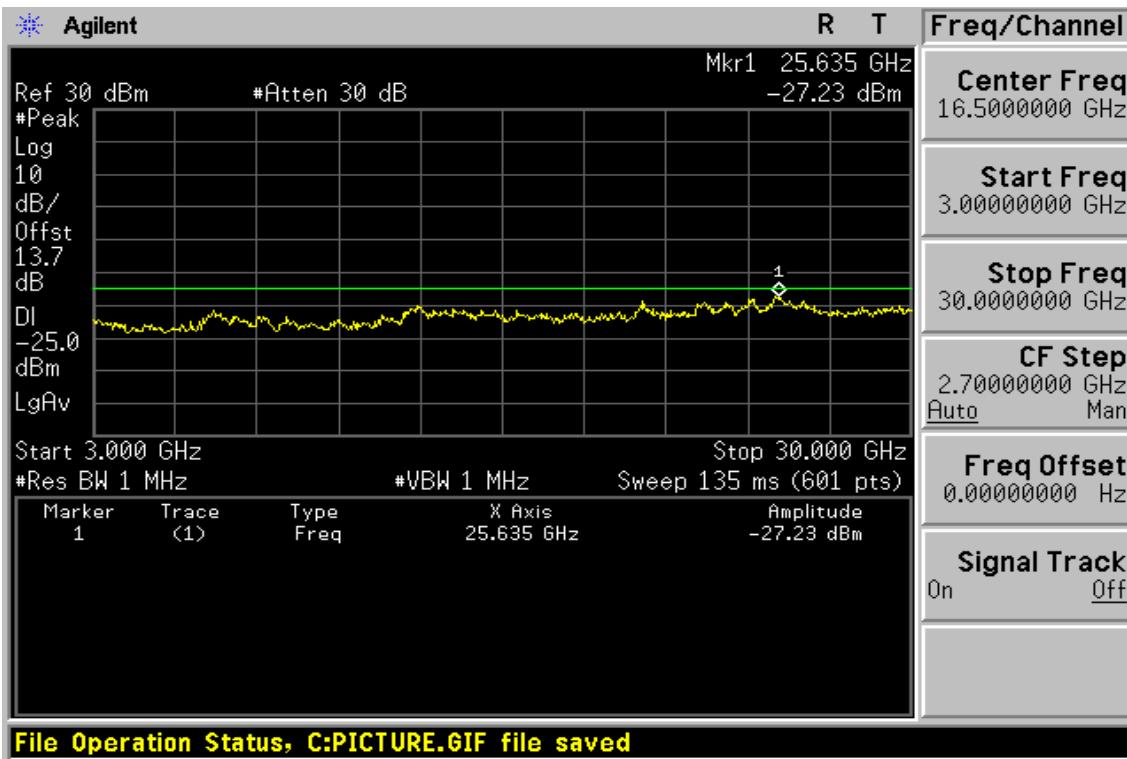
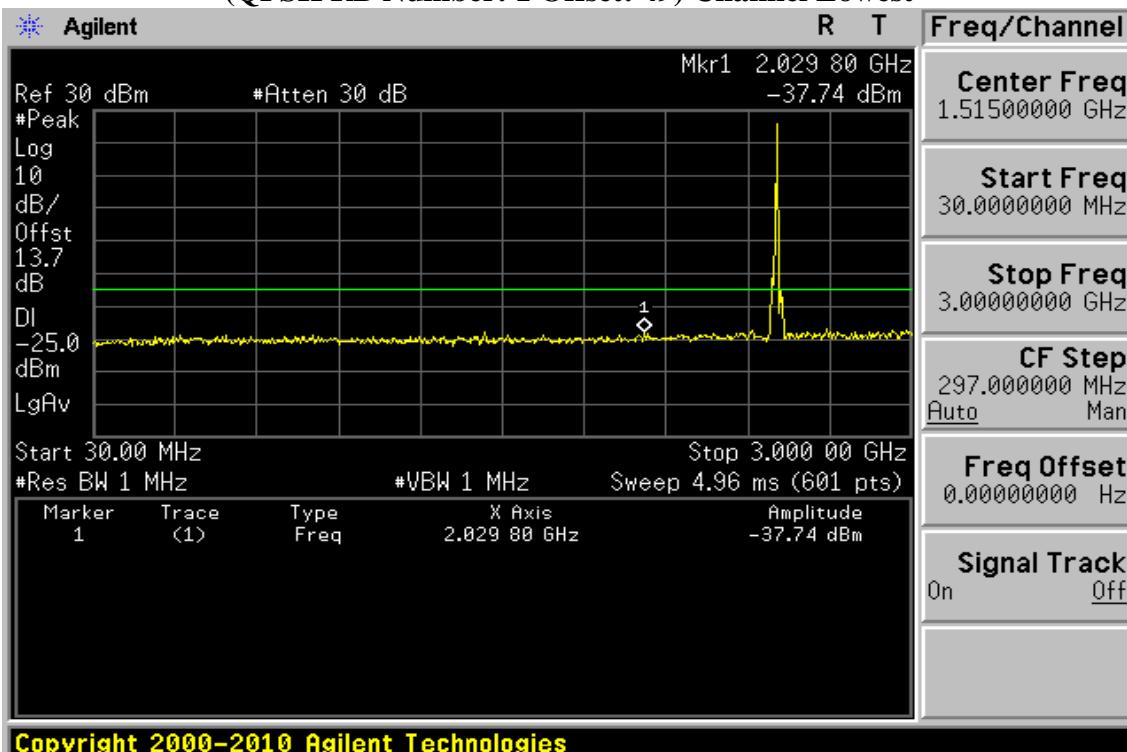
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**Figure 10-226: Out of Band emission at antenna terminals–10MHz BW LTE-Band 7
(QPSK RB Number: 1 Offset: 49) Channel Lowest**

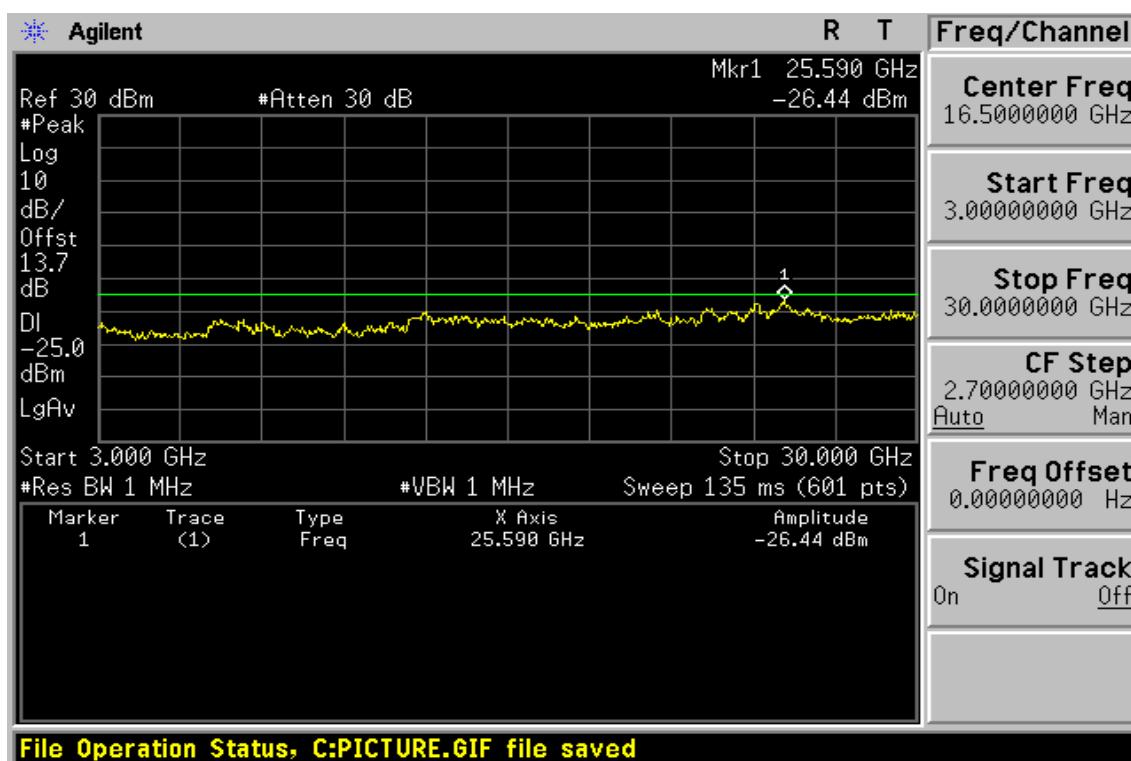
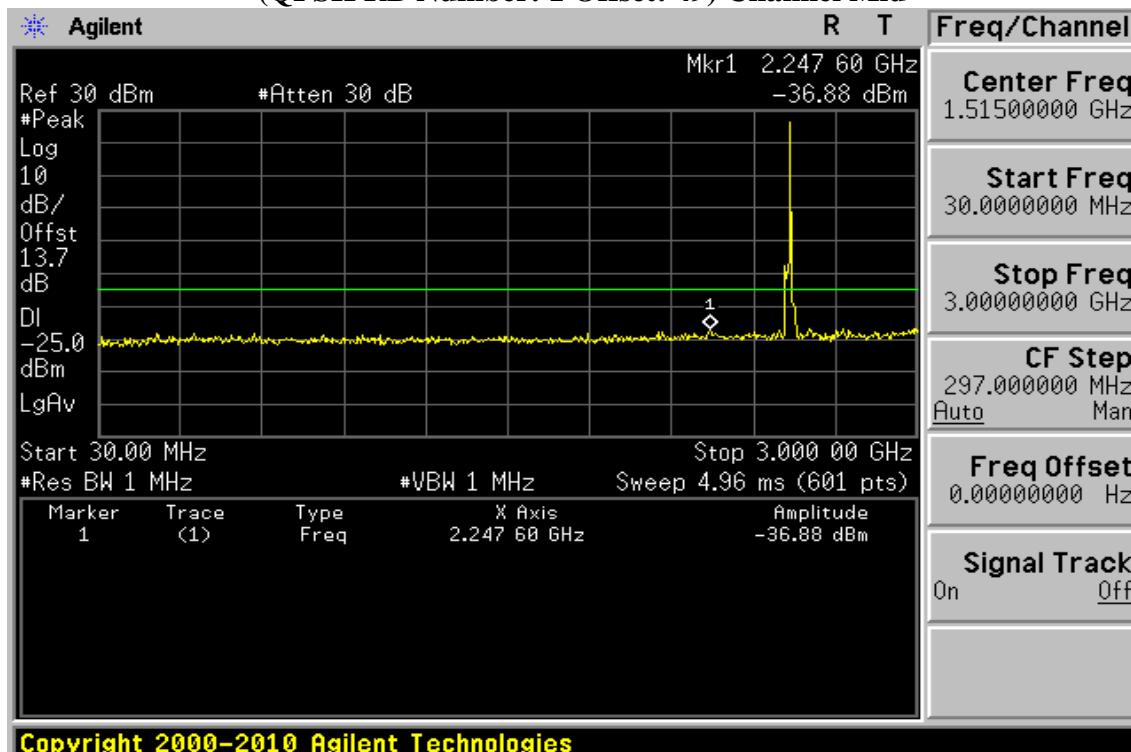


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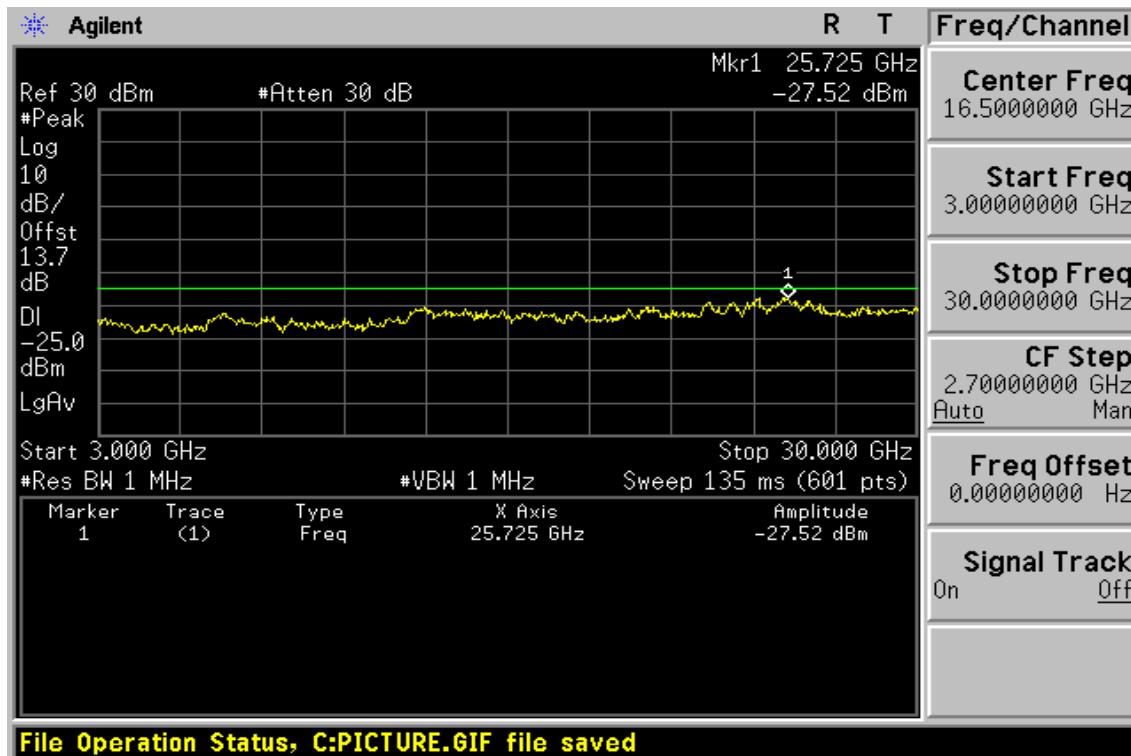
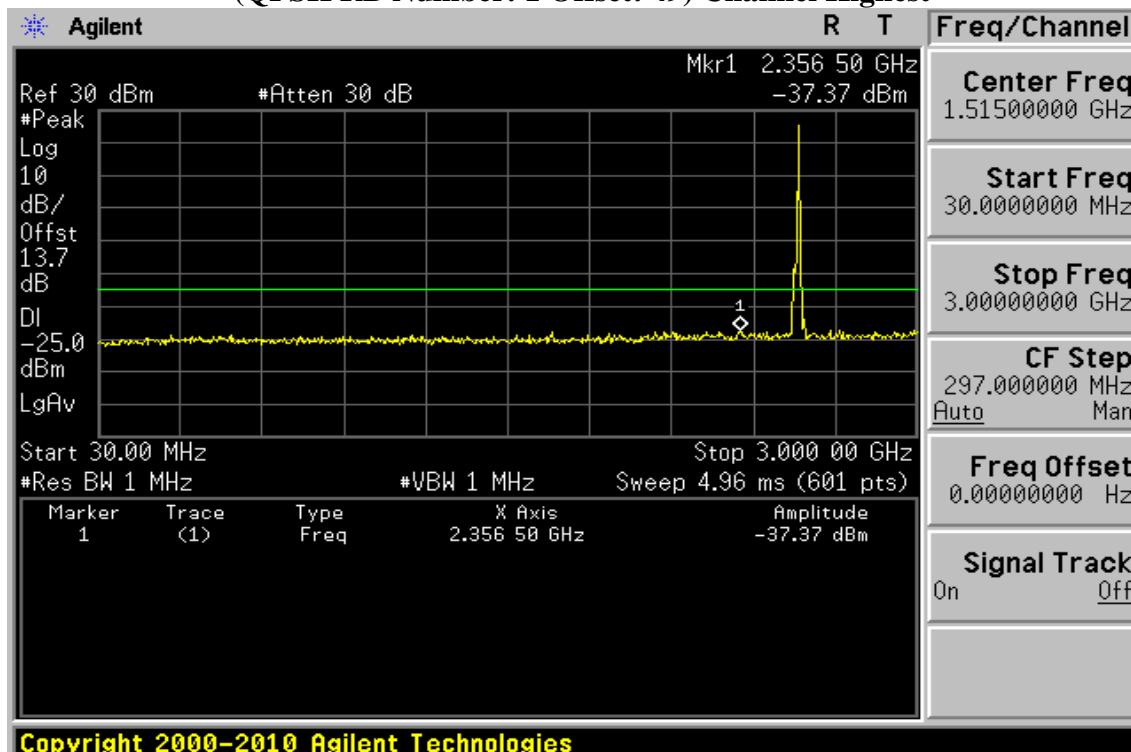
Figure 10-227: Out of Band emission at antenna terminals –10MHz BW LTE-Band 7
(QPSK RB Number: 1 Offset: 49) Channel Mid



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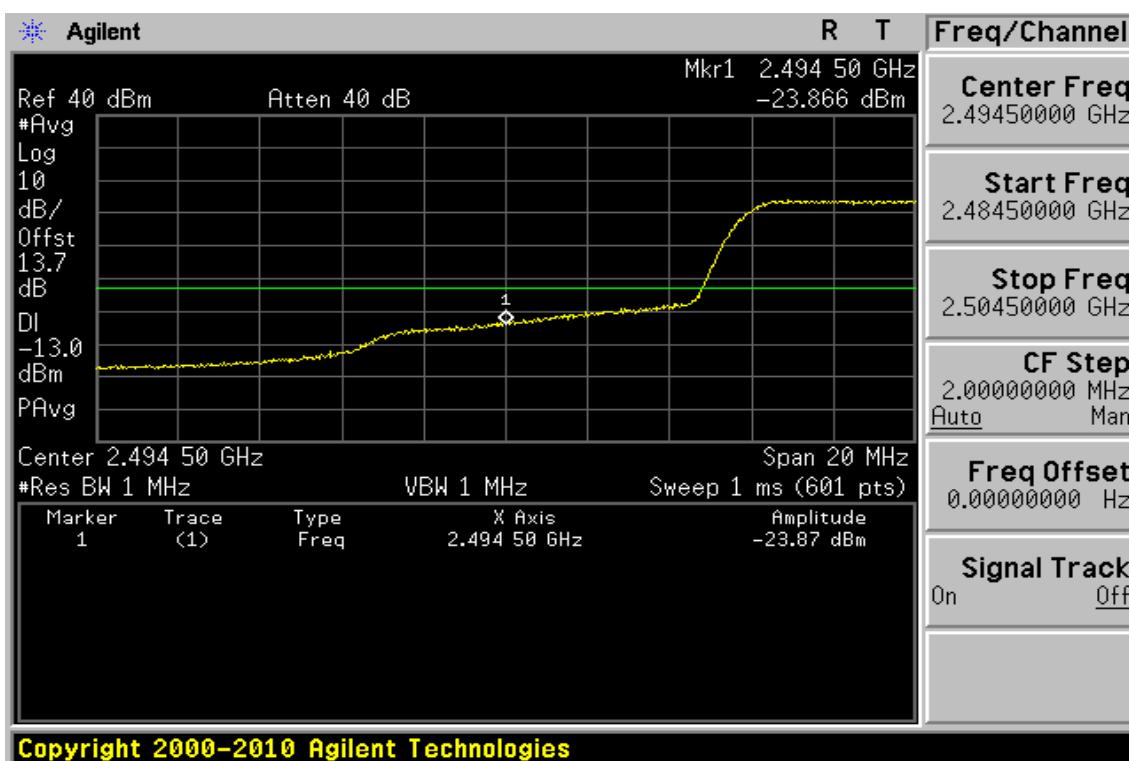
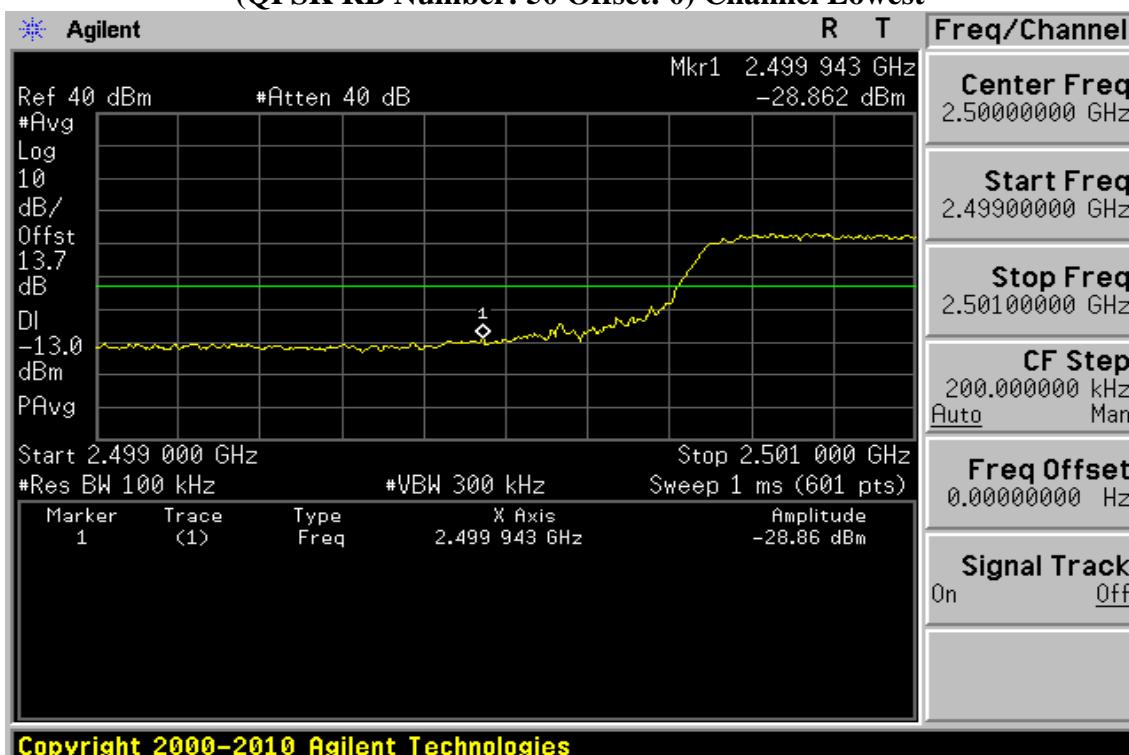
Figure 10-228: Out of Band emission at antenna terminals—10MHz BW LTE-Band 7
(QPSK RB Number: 1 Offset: 49) Channel Highest

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**Figure 10-229: Band edge emission at antenna terminals –10MHz BW LTE-Band 7
(QPSK RB Number: 50 Offset: 0) Channel Lowest**

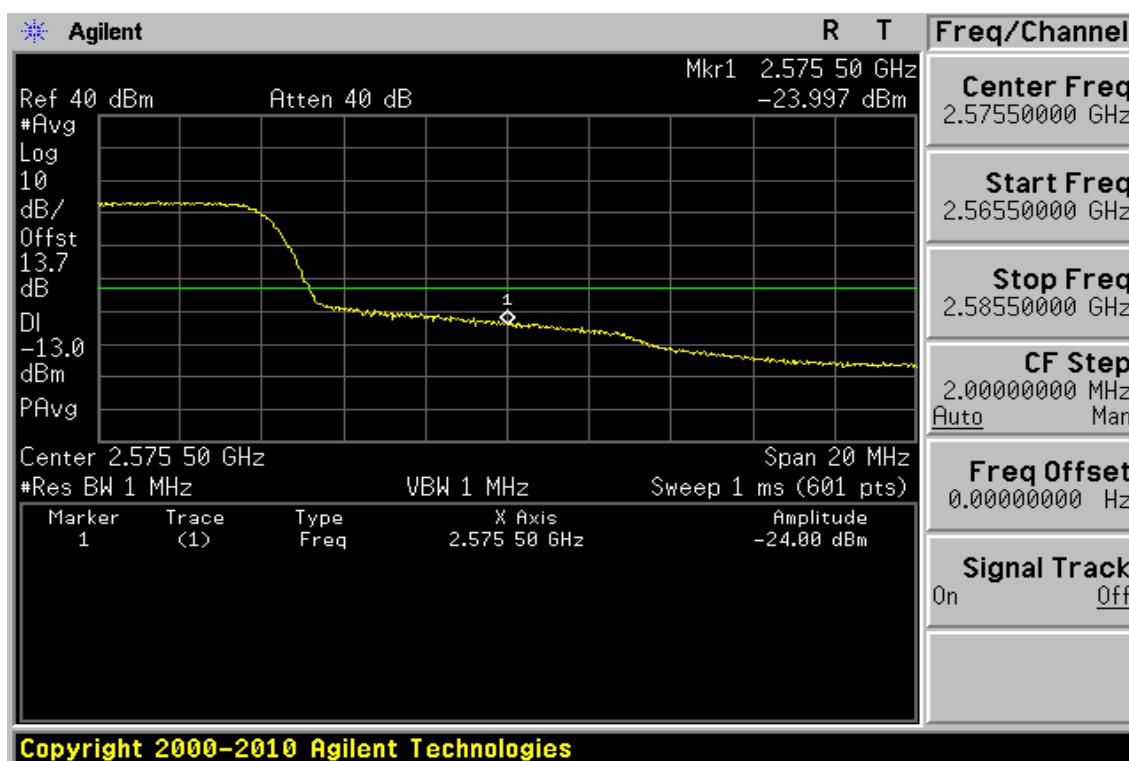
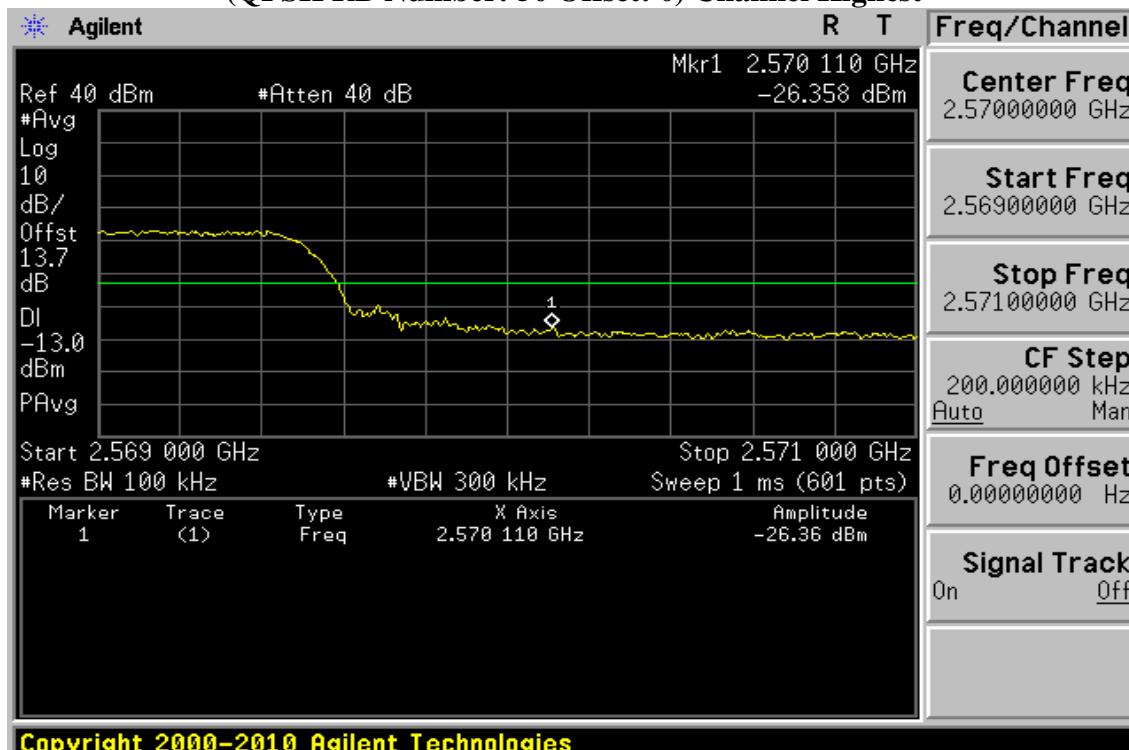


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**Figure 10-230: Band edge emission at antenna terminals –10MHz BW LTE-Band 7
(QPSK RB Number: 50 Offset: 0) Channel Highest**

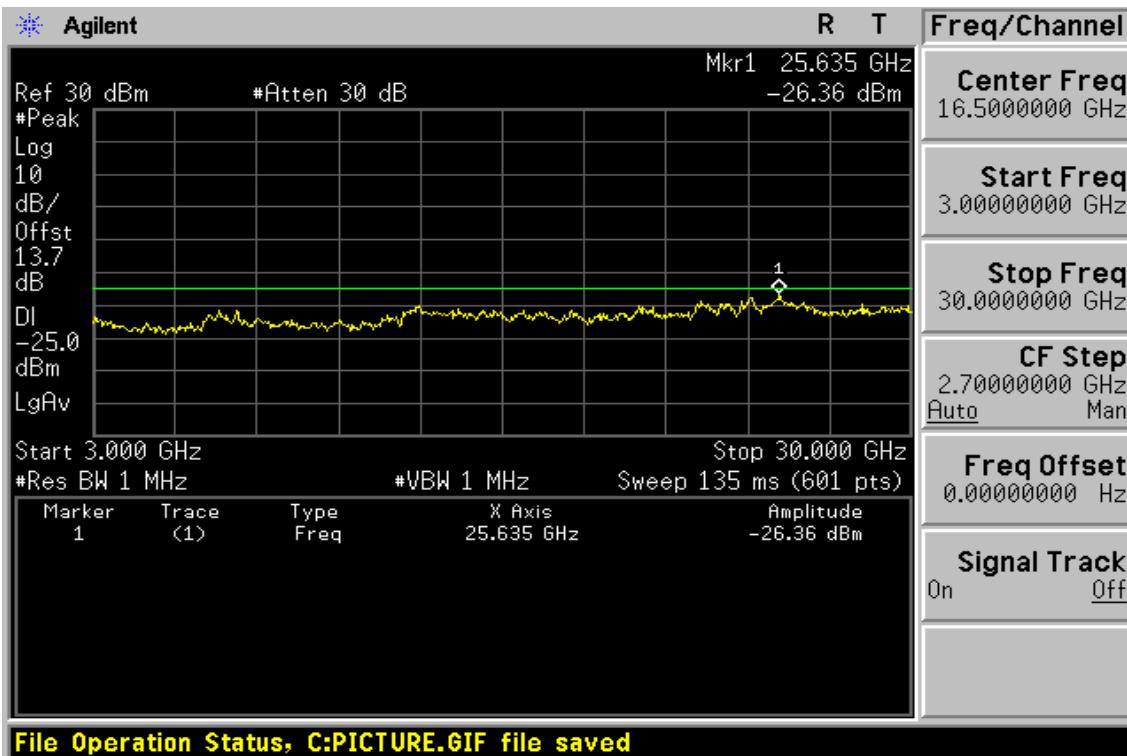
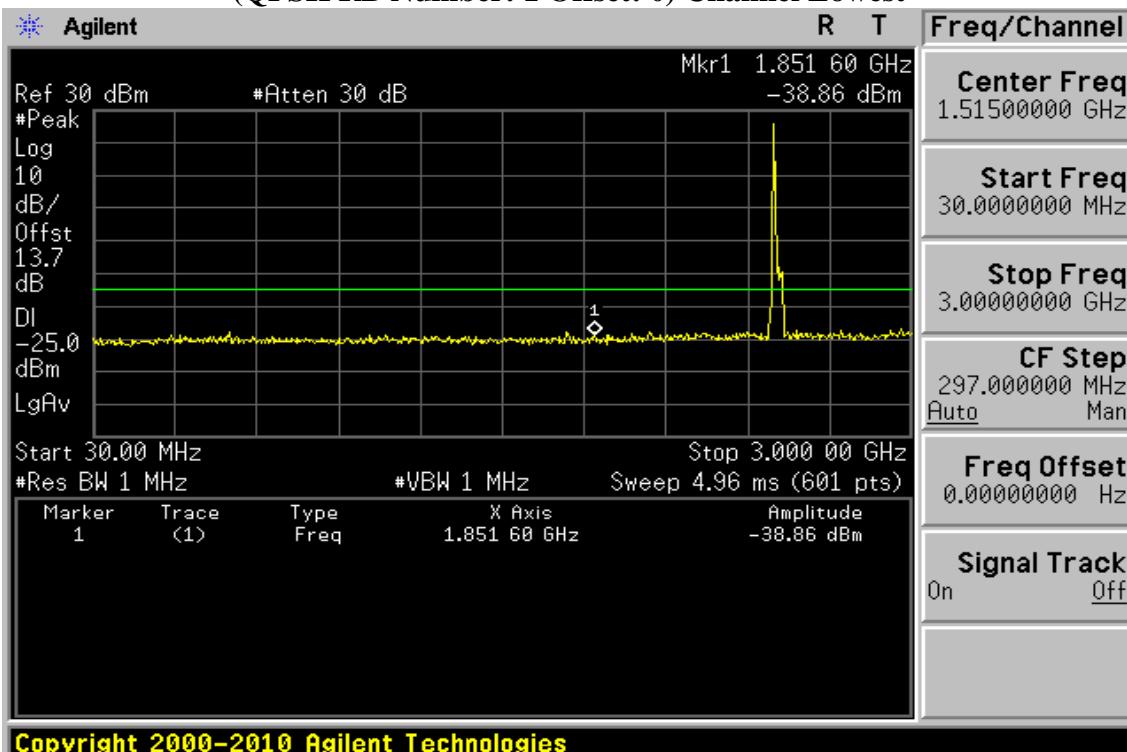


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**Figure 10-231: Out of Band emission at antenna terminals—15MHz BW LTE-Band 7
(QPSK RB Number: 1 Offset: 0) Channel Lowest**

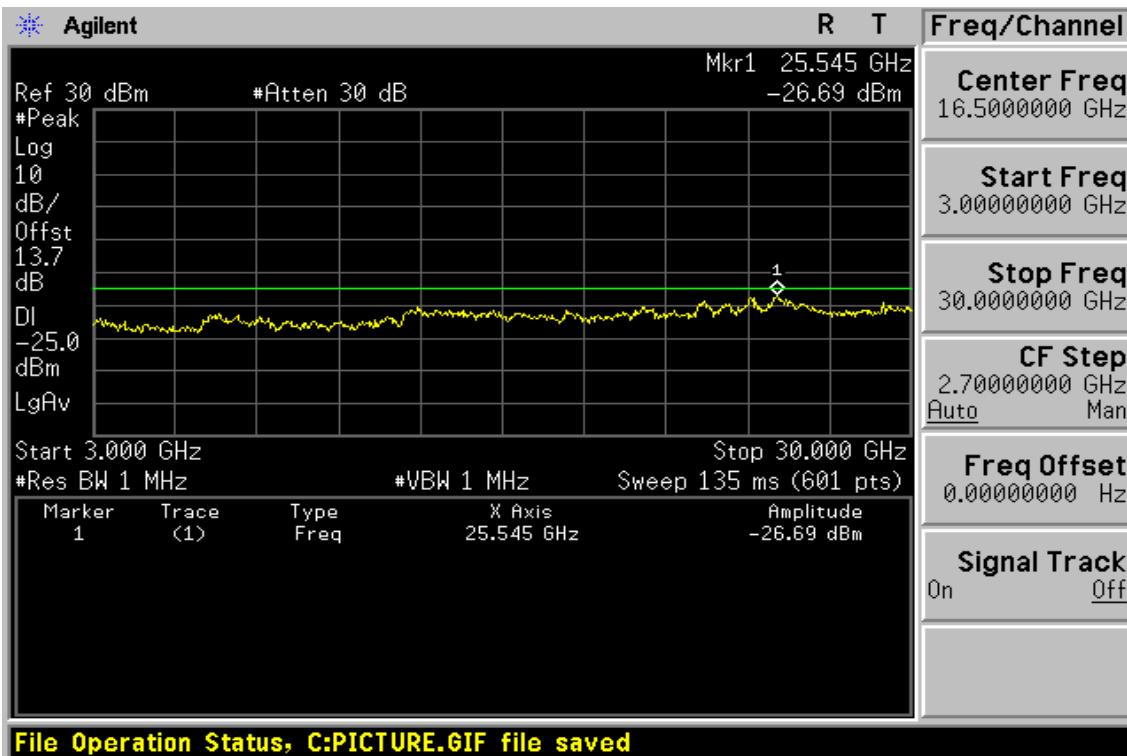
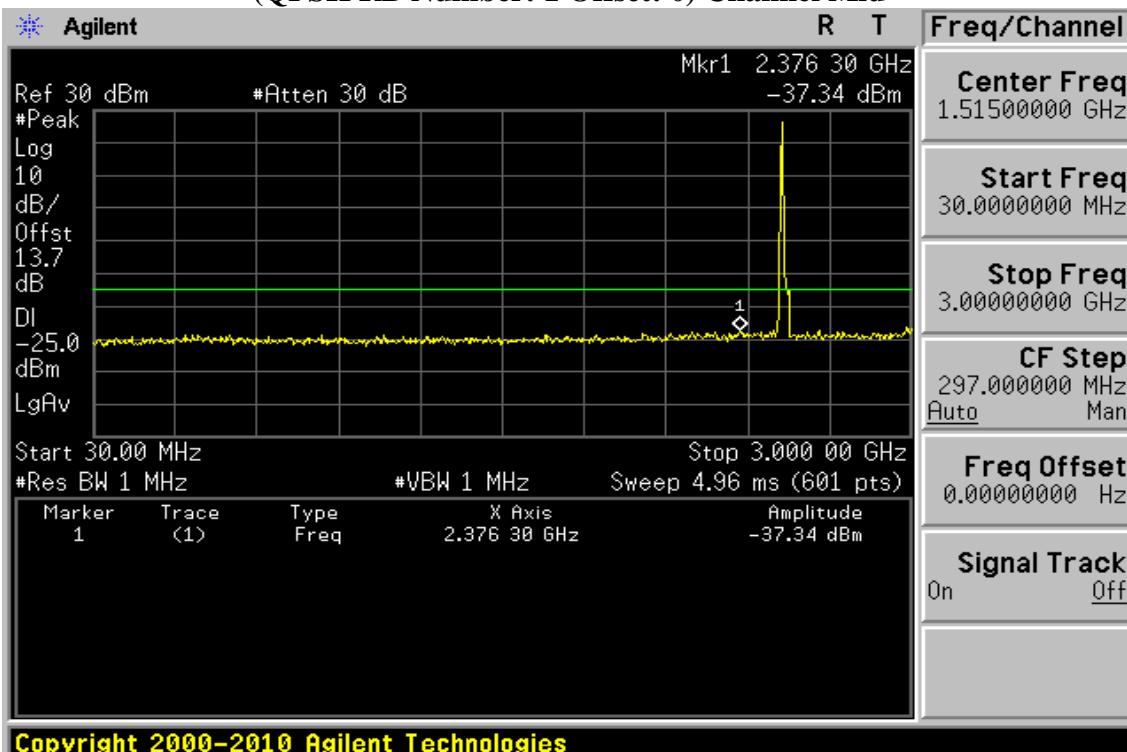


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**Figure 10-232: Out of Band emission at antenna terminals—15MHz BW LTE-Band 7
(QPSK RB Number: 1 Offset: 0) Channel Mid**

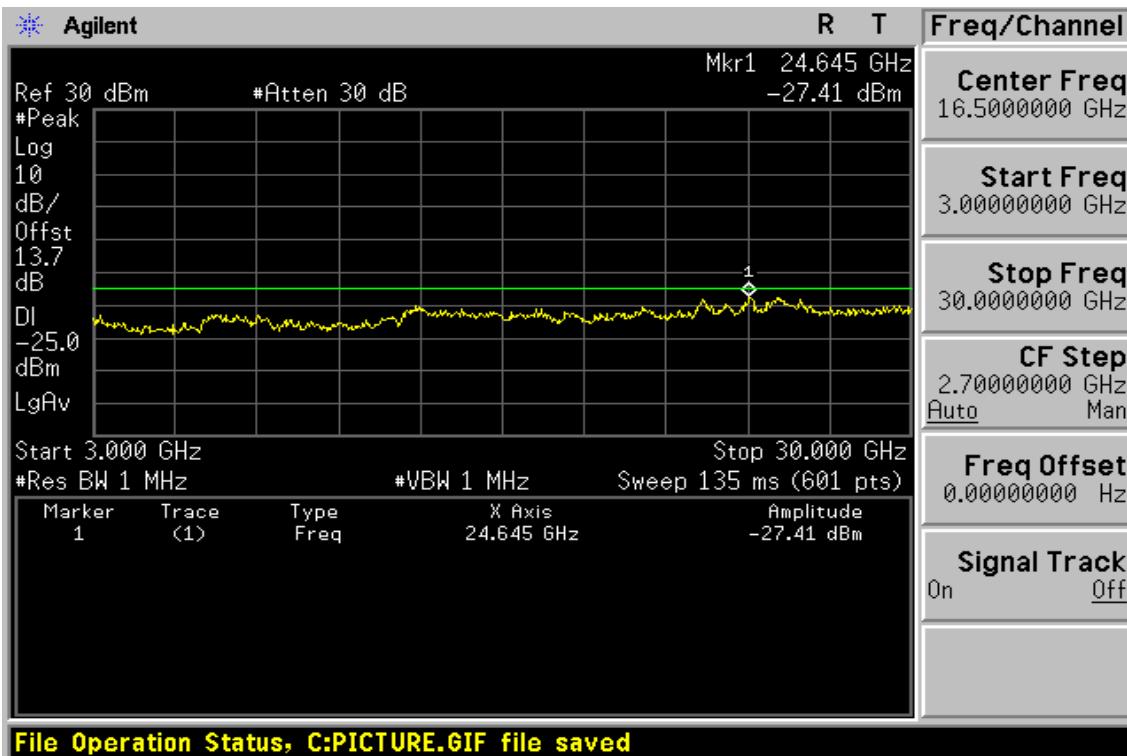
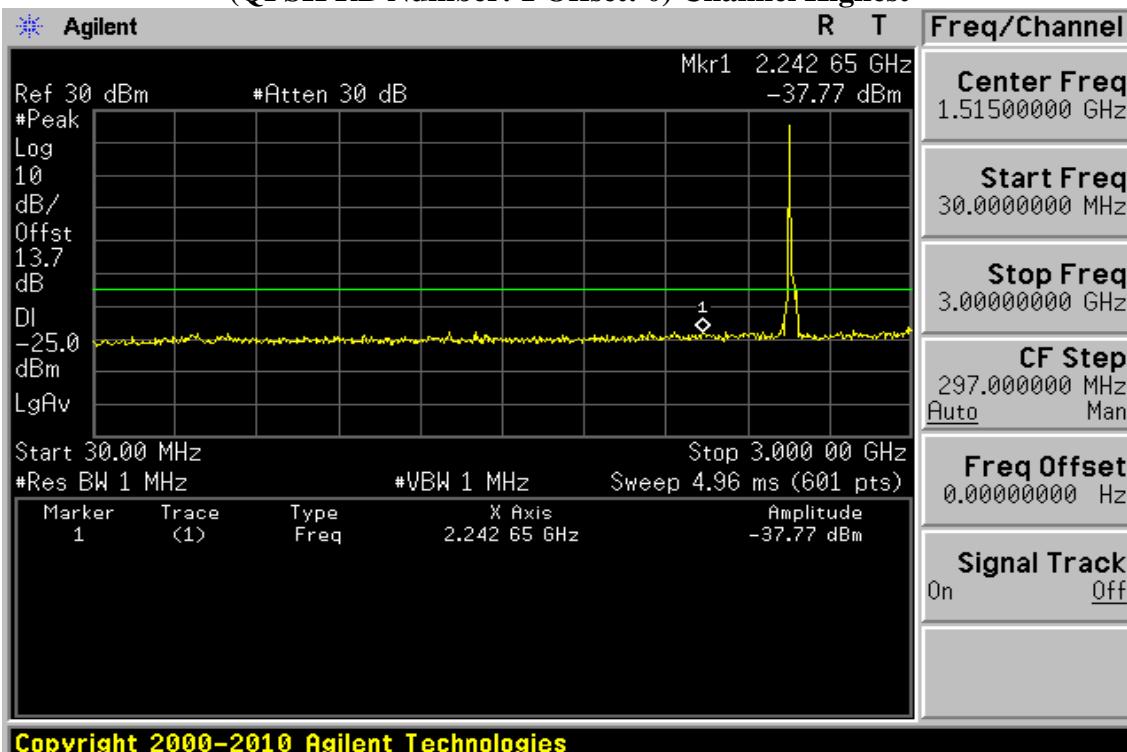


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**Figure 10-233: Out of Band emission at antenna terminals—15MHz BW LTE-Band 7
(QPSK RB Number: 1 Offset: 0) Channel Highest**

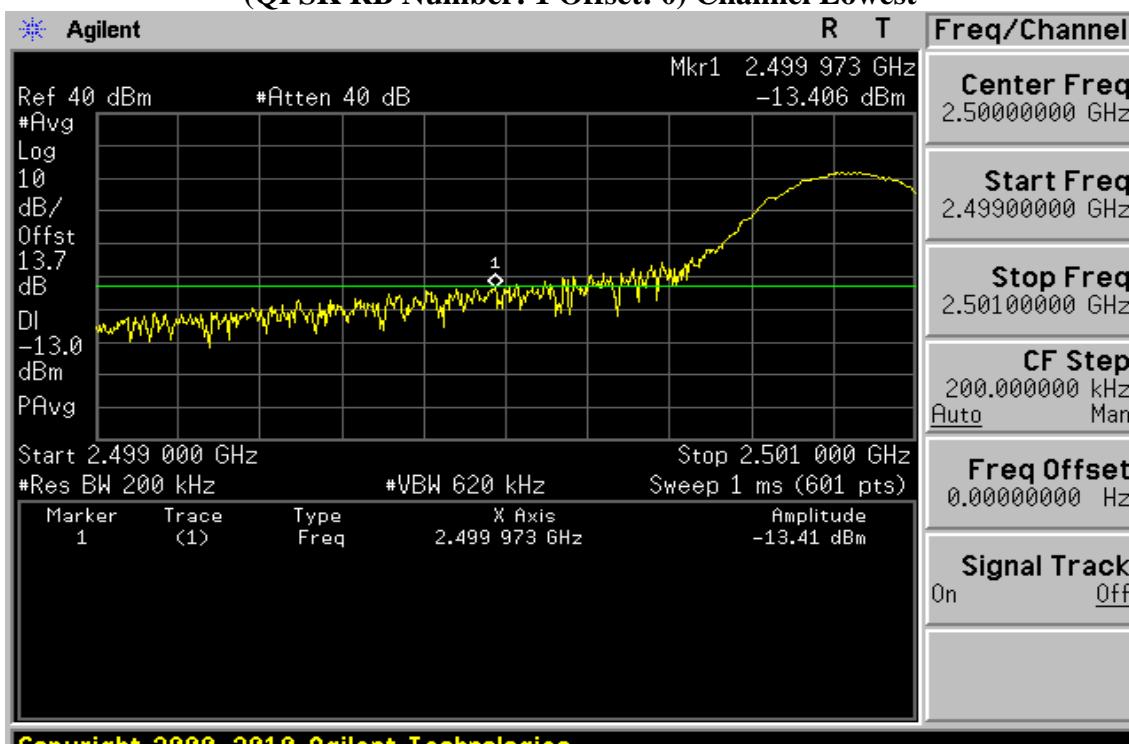


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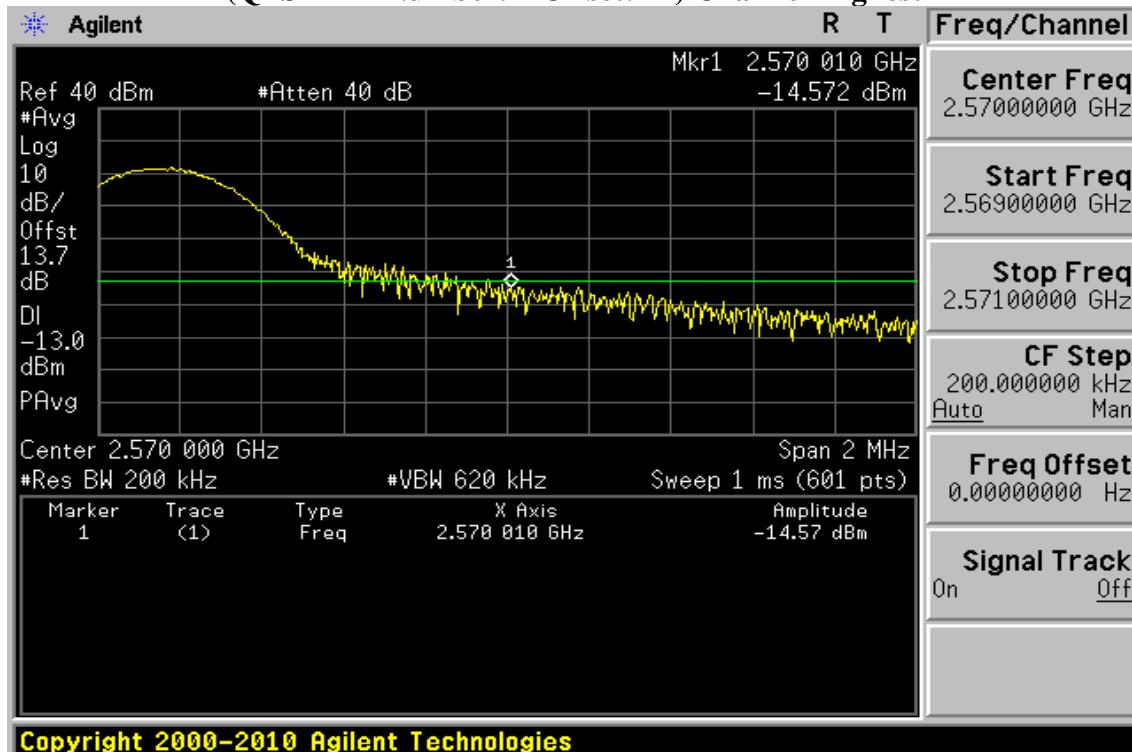
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**Figure 10-234: Band edge emission at antenna terminals –15MHz BW LTE-Band 7
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



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**Figure 10-235: Band edge emission at antenna terminals –15MHz BW LTE-Band 7
(QPSK RB Number: 1 Offset: 74) Channel Highest**



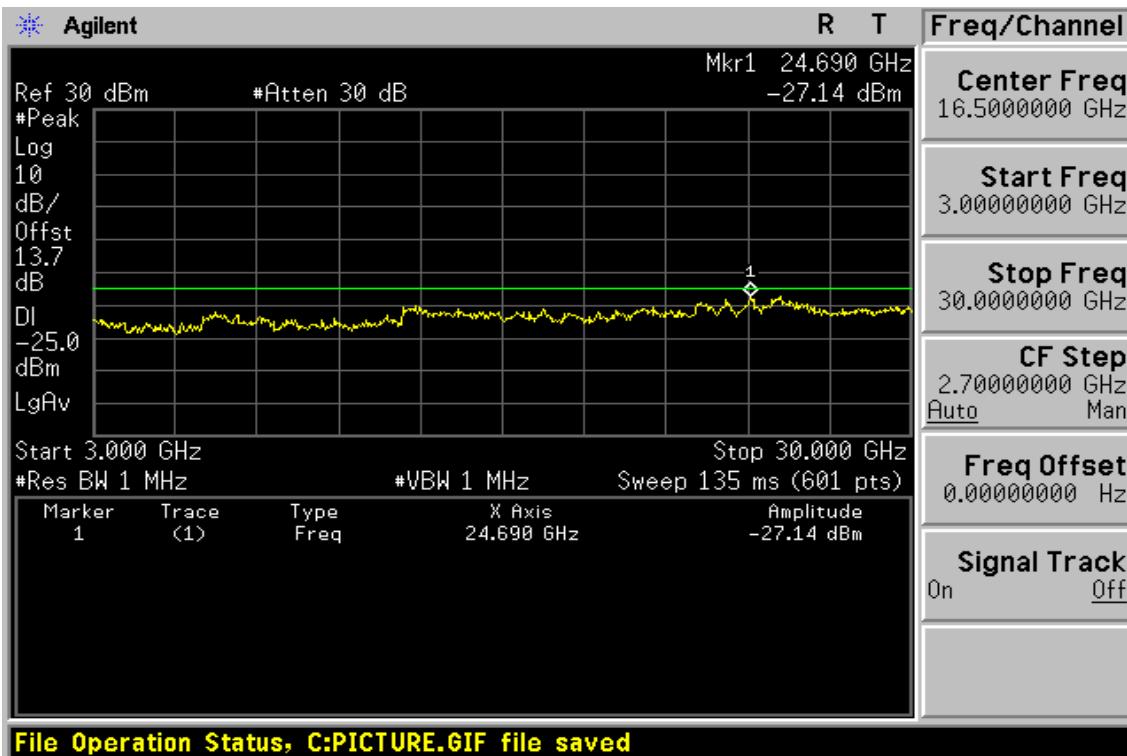
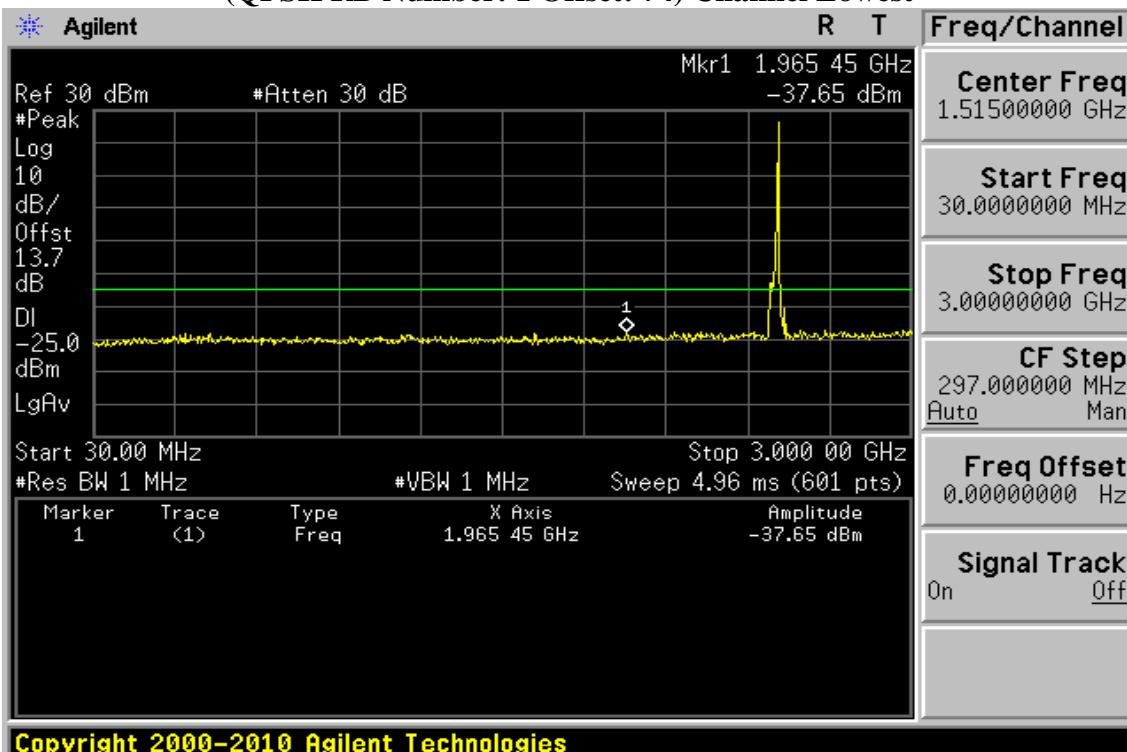
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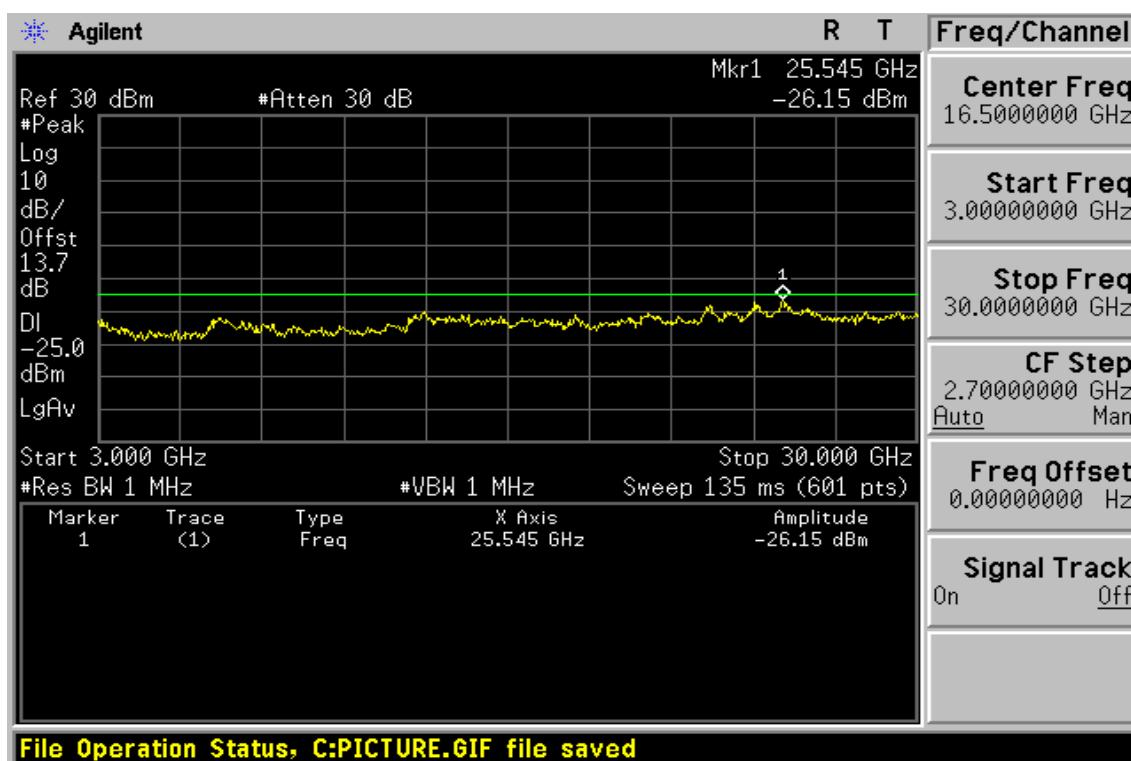
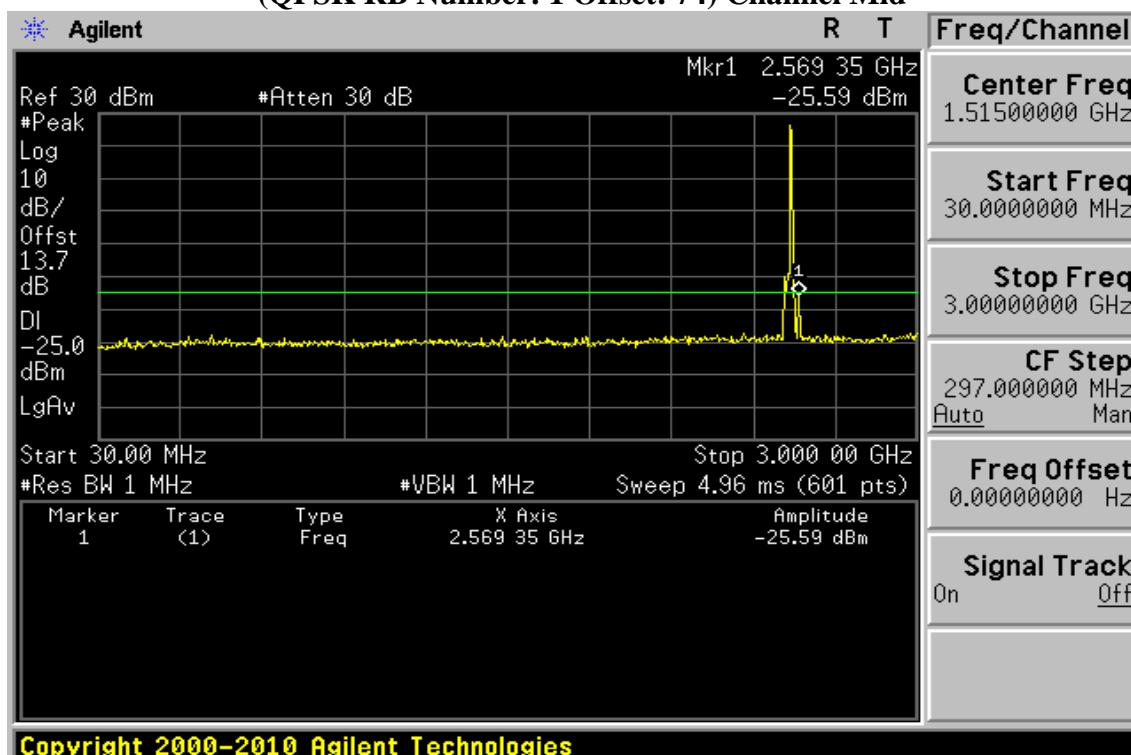
**Figure 10-236: Out of Band emission at antenna terminals—15MHz BW LTE-Band 7
(QPSK RB Number: 1 Offset: 74) Channel Lowest**



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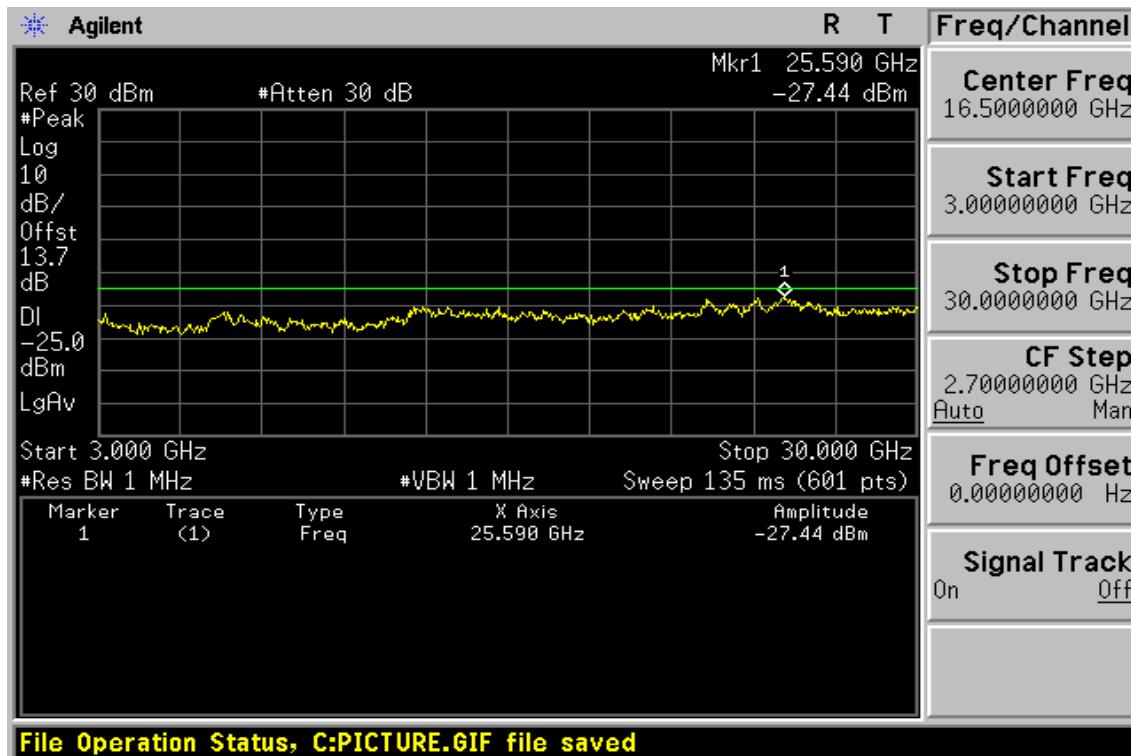
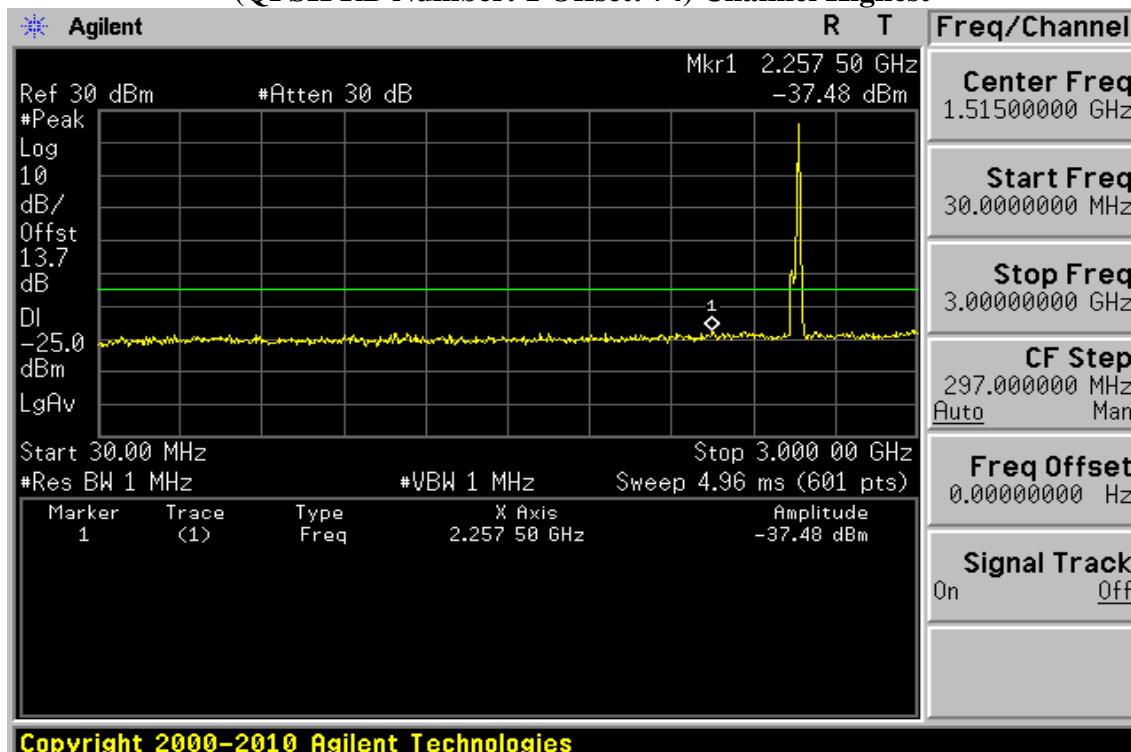
Figure 10-237: Out of Band emission at antenna terminals –15MHz BW LTE-Band 7
(QPSK RB Number: 1 Offset: 74) Channel Mid

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**Figure 10-238: Out of Band emission at antenna terminals—15MHz BW LTE-Band 7
(QPSK RB Number: 1 Offset: 74) Channel Highest**

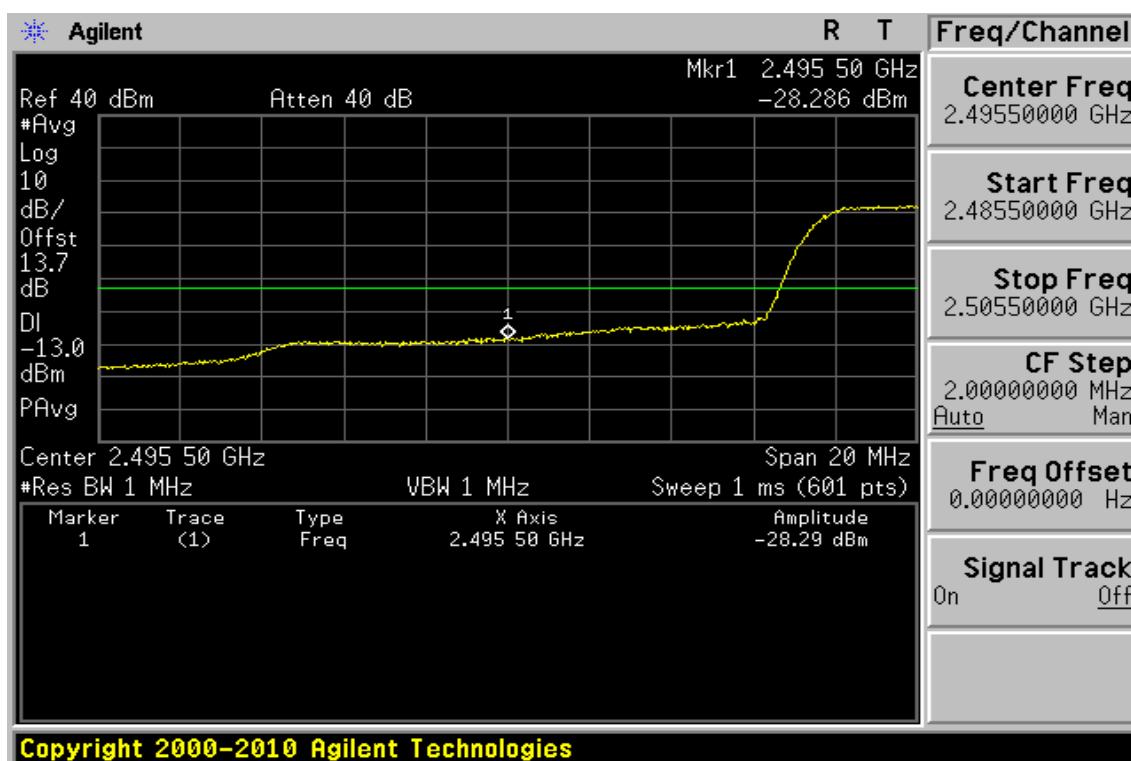
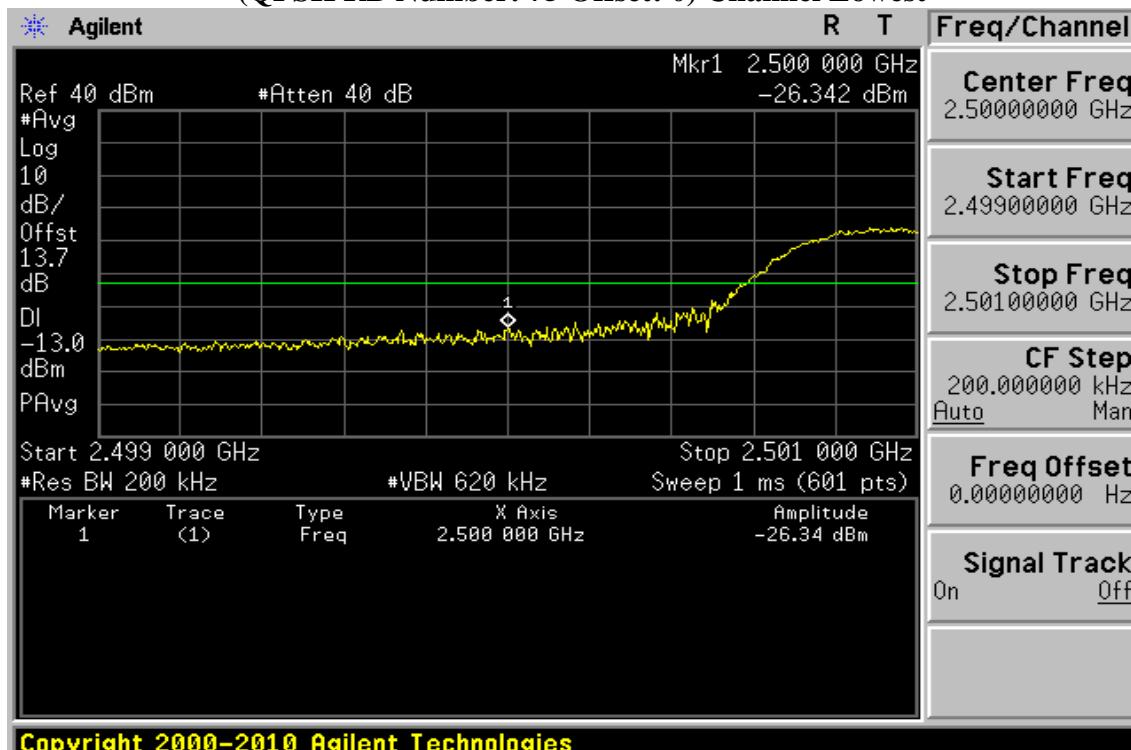


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Figure 10-239: Band edge emission at antenna terminals –15MHz BW LTE-Band 7 (OPSK RB Number: 75 Offset: 0) Channel Lowest

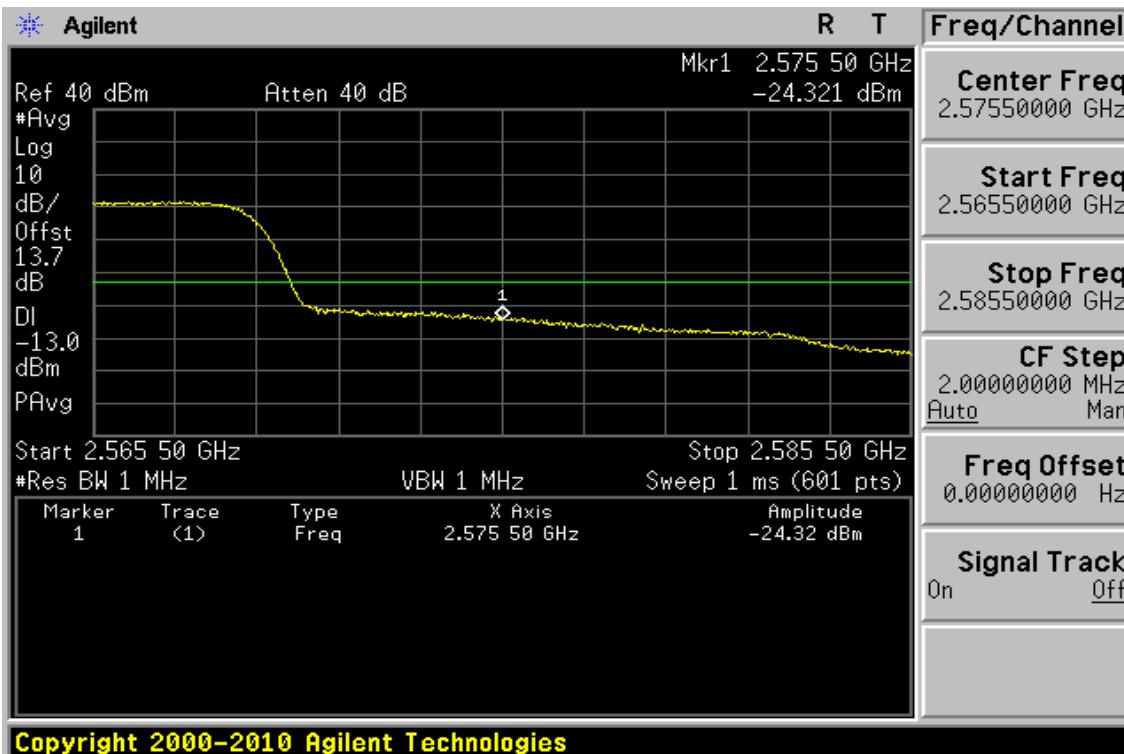
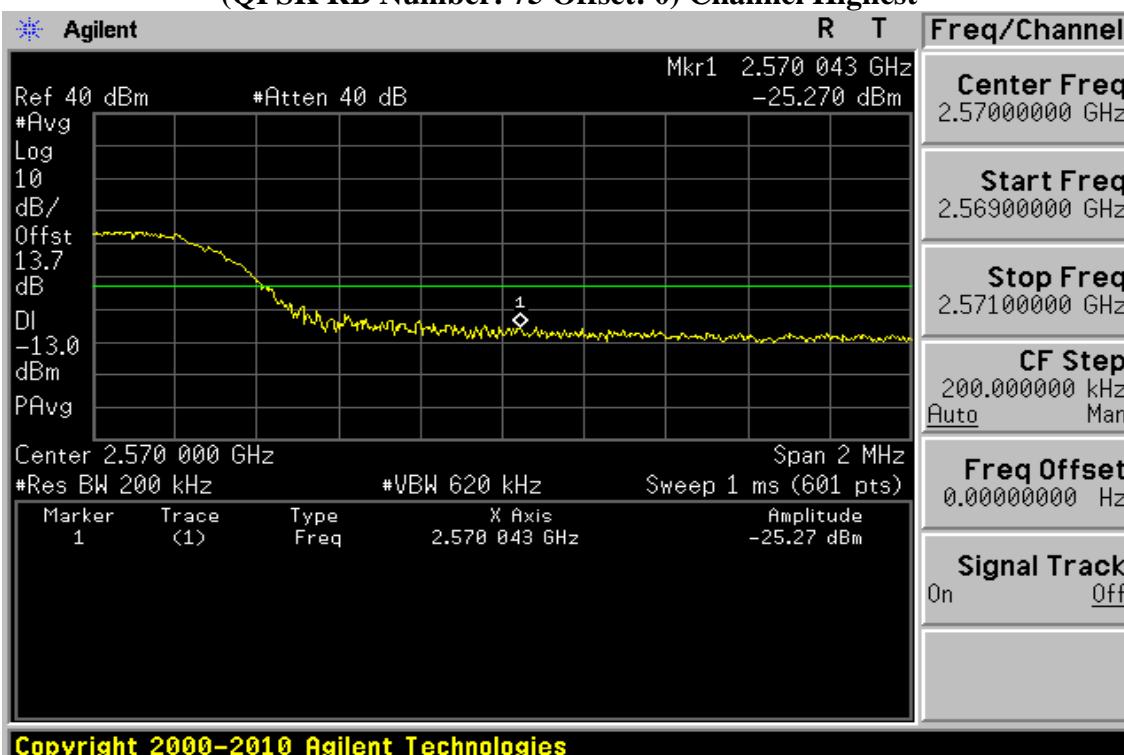


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**Figure 10-240: Band edge emission at antenna terminals –15MHz BW LTE-Band 7
(QPSK RB Number: 75 Offset: 0) Channel Highest**

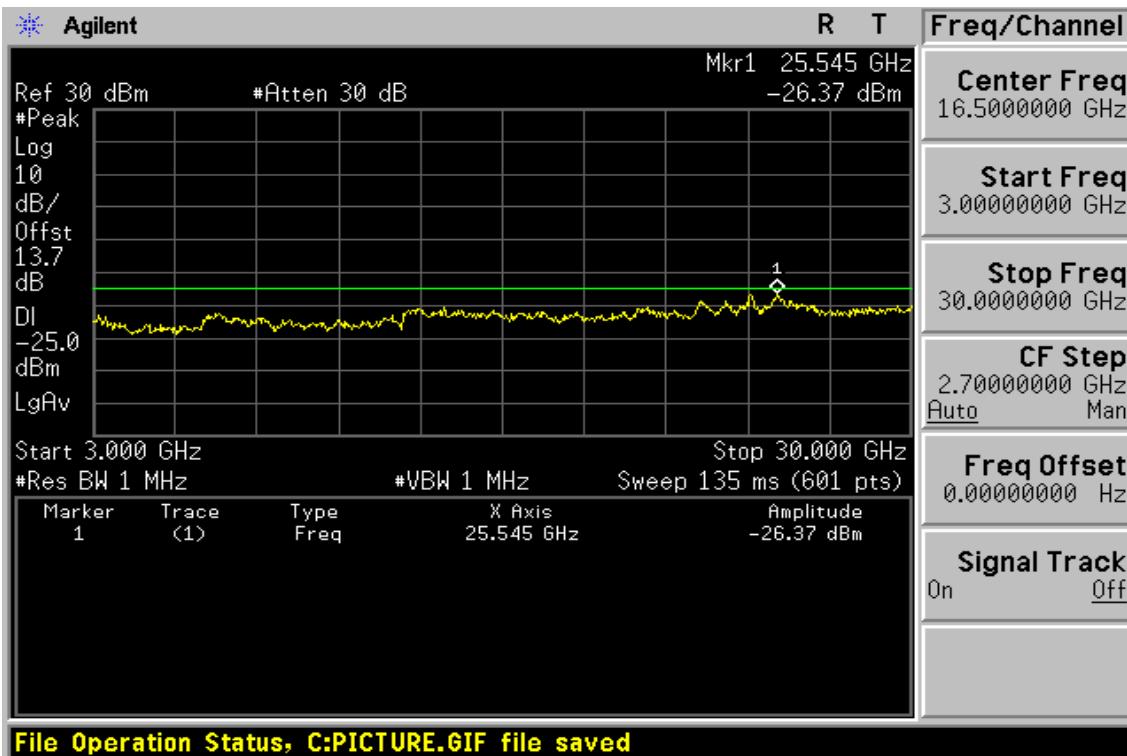
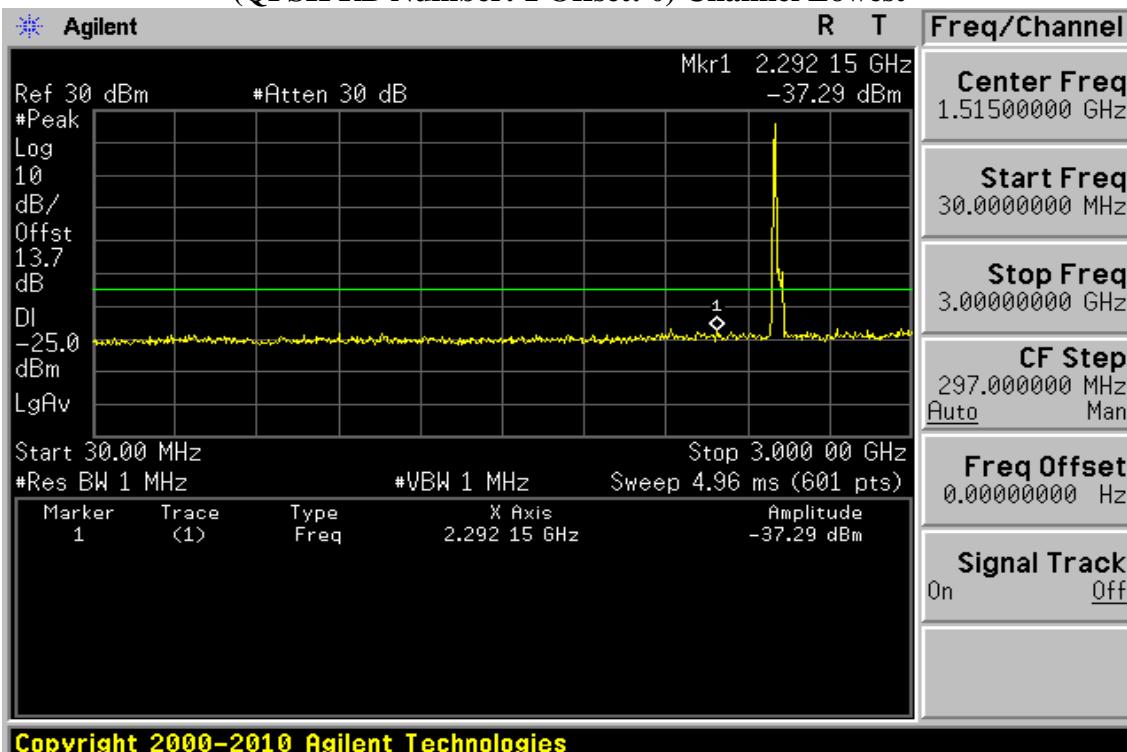


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**Figure 10-241: Out of Band emission at antenna terminals–20MHz BW LTE-Band 7
(QPSK RB Number: 1 Offset: 0) Channel Lowest**

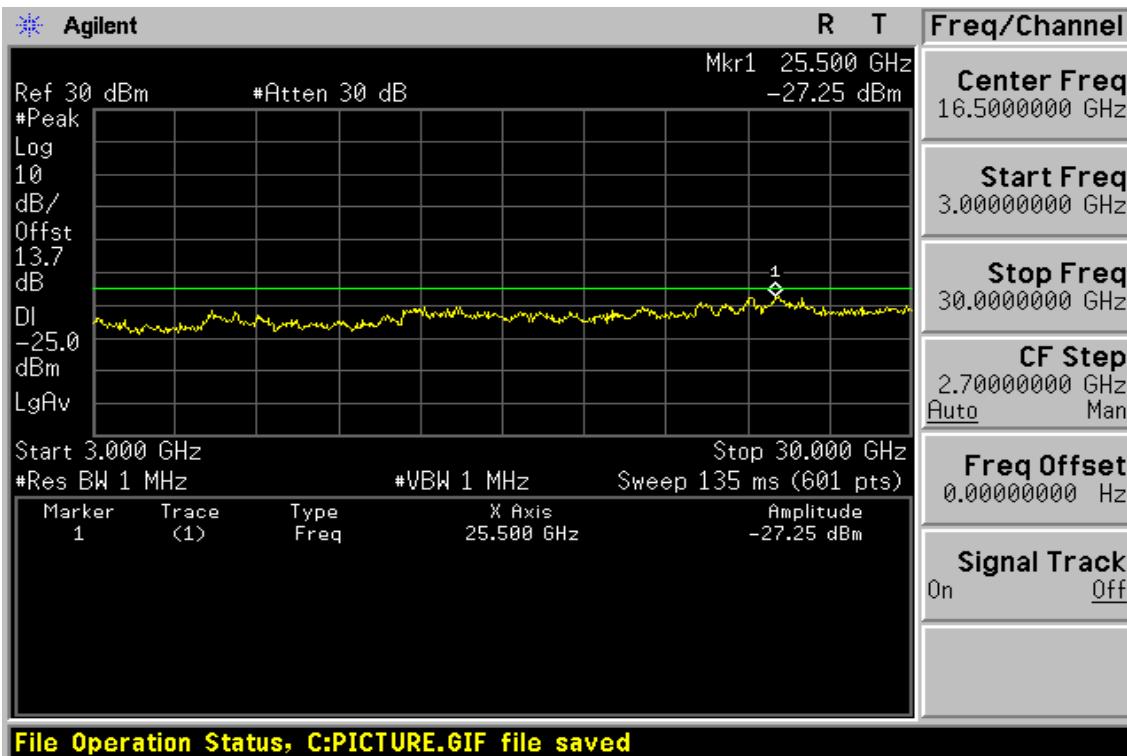
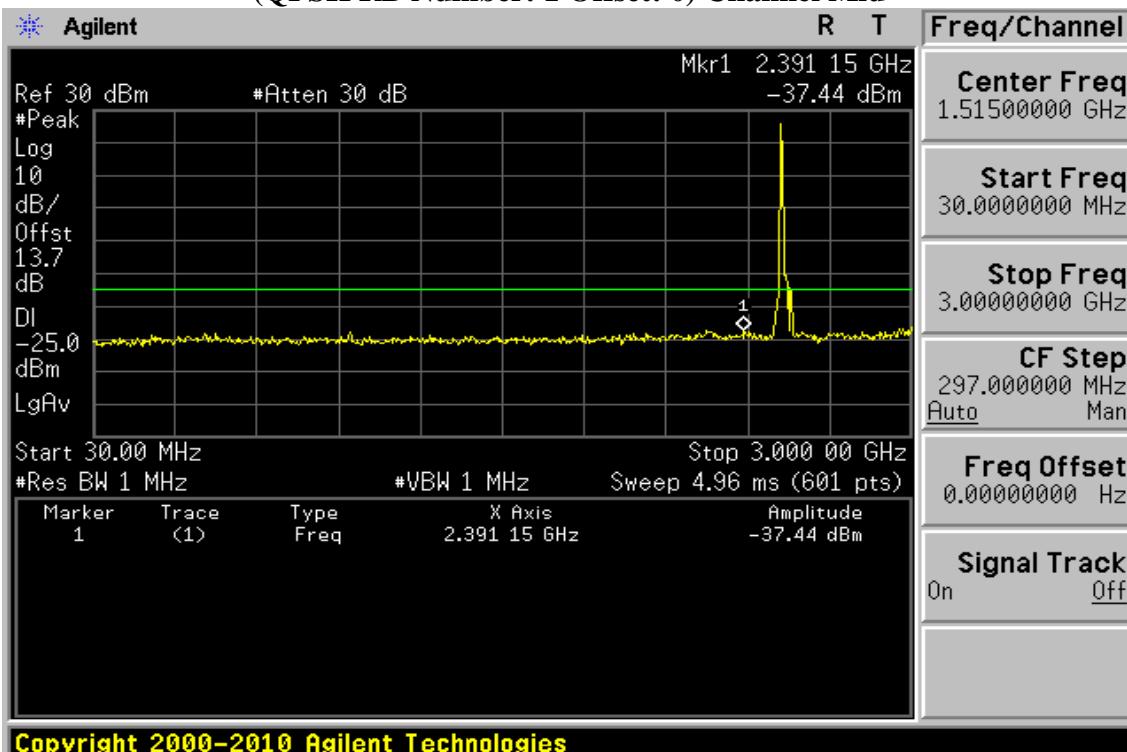


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**Figure 10-242: Out of Band emission at antenna terminals–20MHz BW LTE-Band 7
(QPSK RB Number: 1 Offset: 0) Channel Mid**

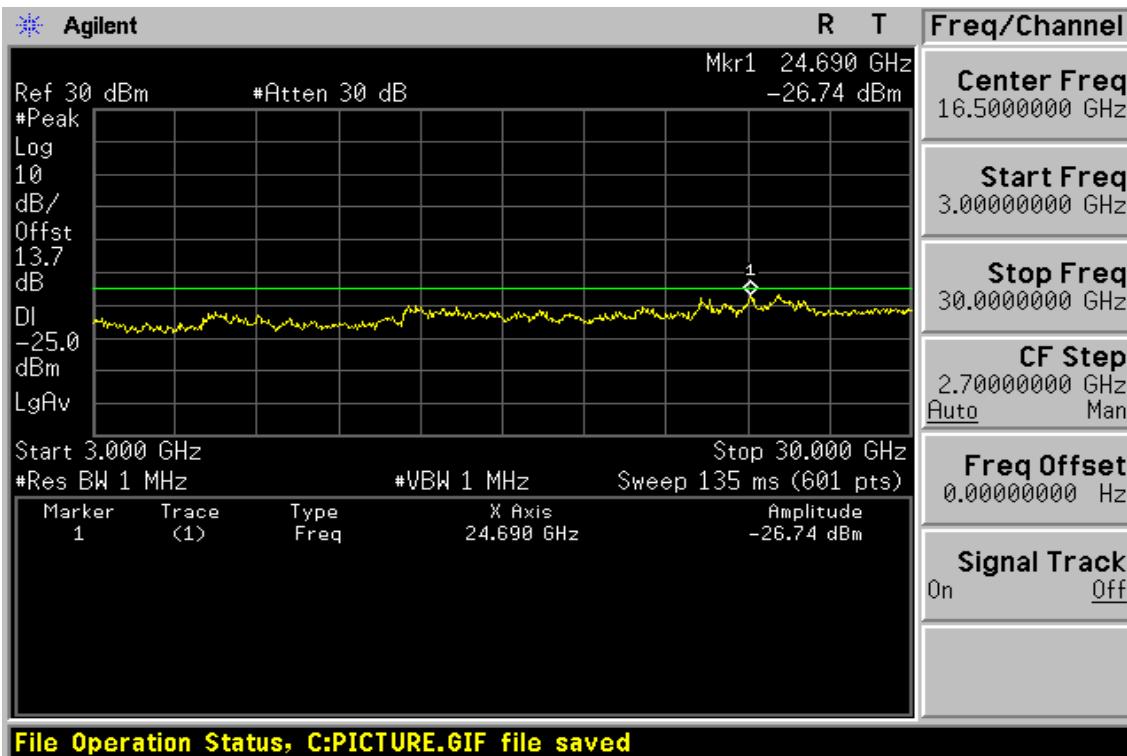
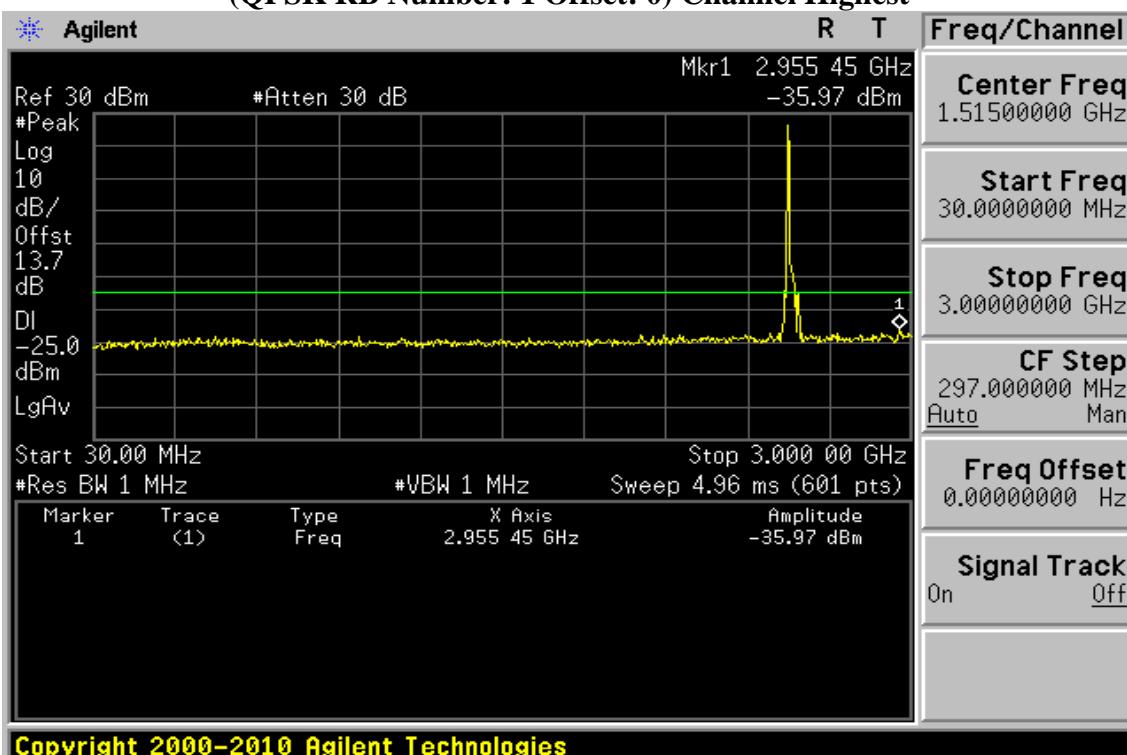


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**Figure 10-243: Out of Band emission at antenna terminals–20MHz BW LTE-Band 7
(QPSK RB Number: 1 Offset: 0) Channel Highest**

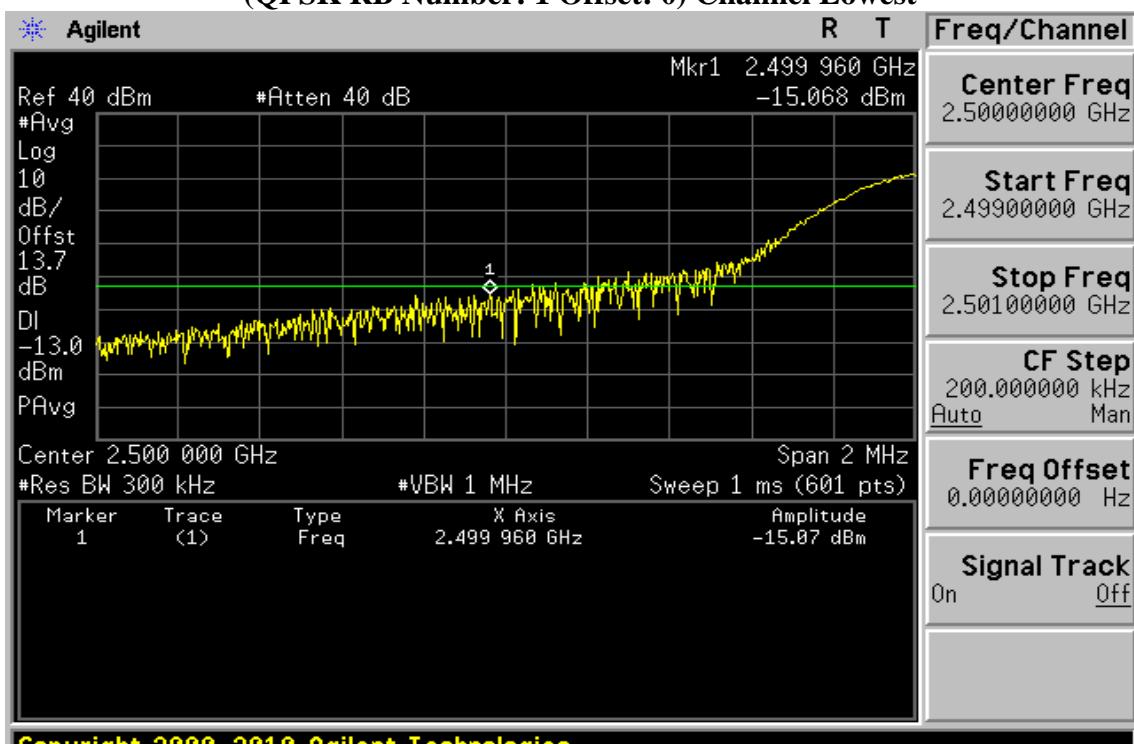


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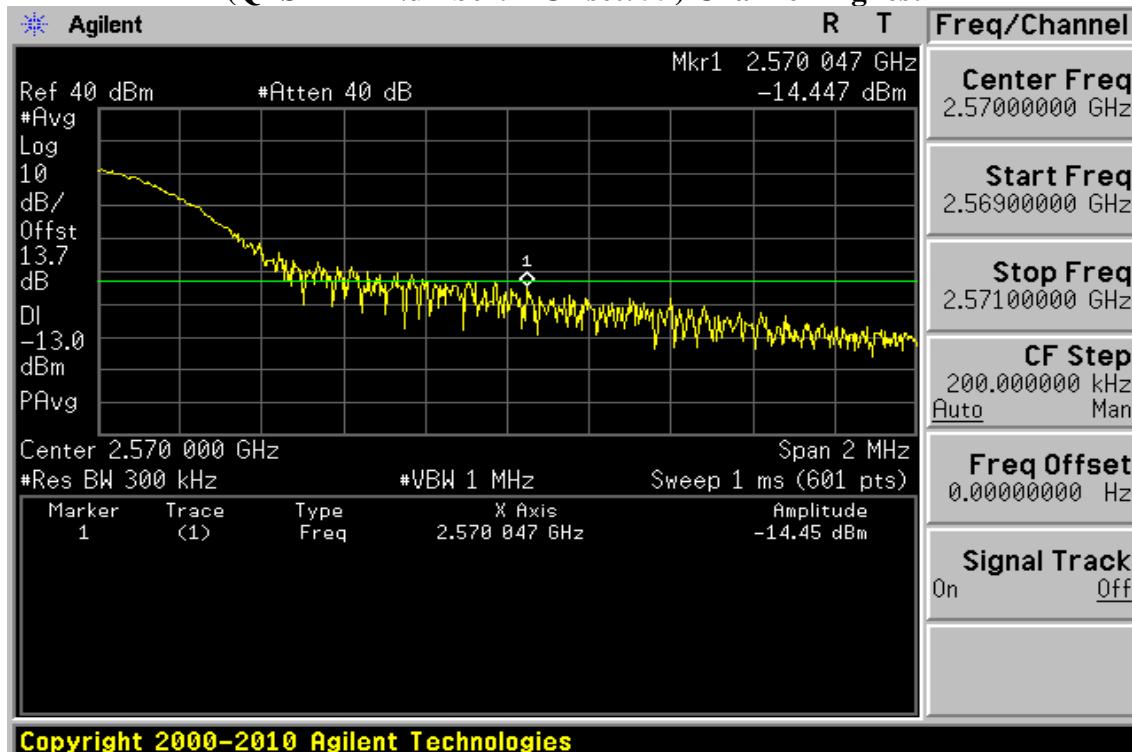
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**Figure 10-244: Band edge emission at antenna terminals –20MHz BW LTE-Band 7
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



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**Figure 10-245: Band edge emission at antenna terminals –20MHz BW LTE-Band 7
(QPSK RB Number: 1 Offset: 99) Channel Highest**



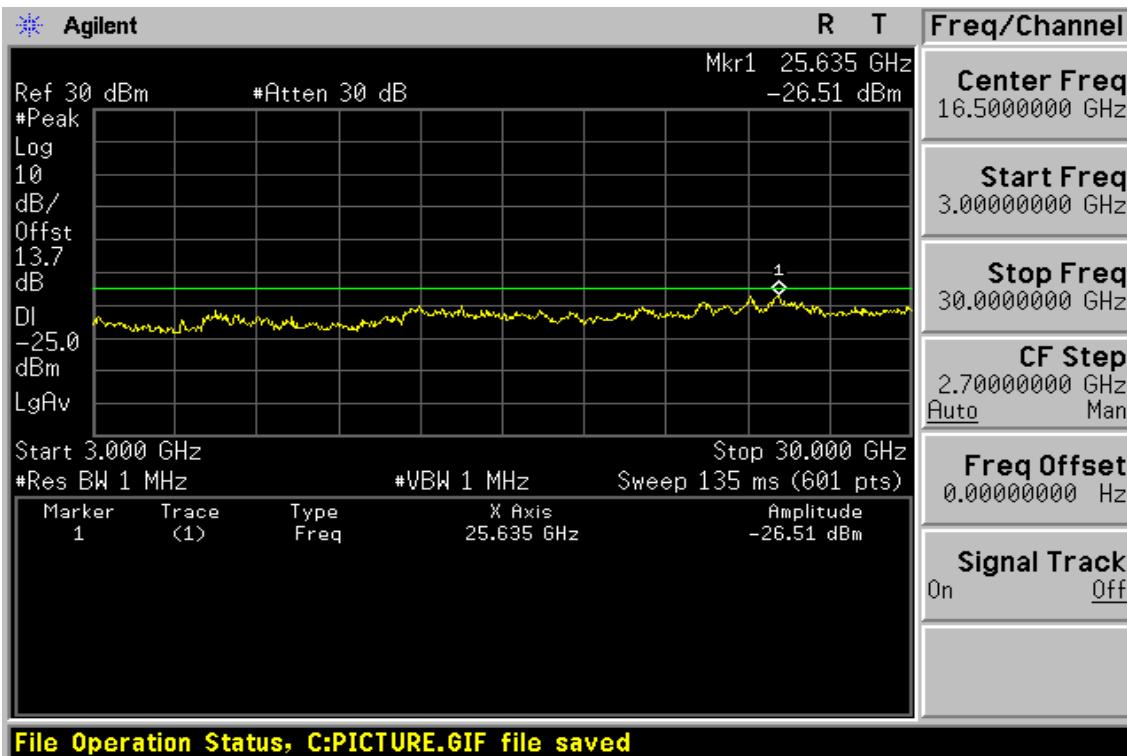
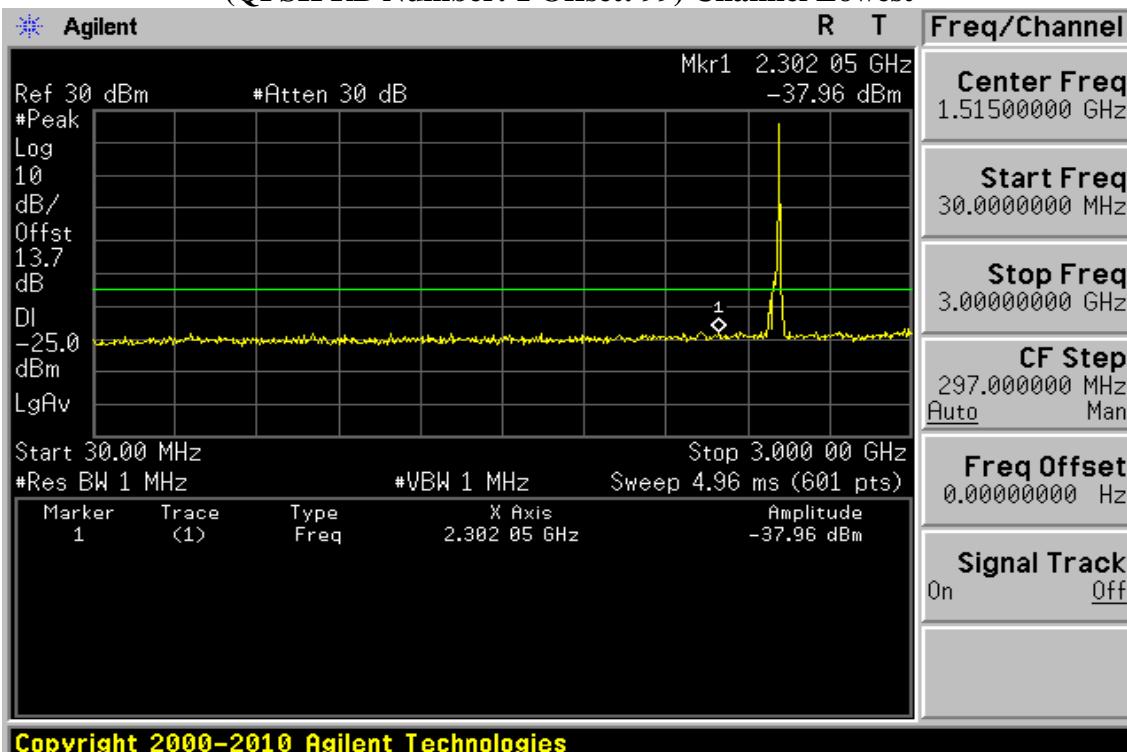
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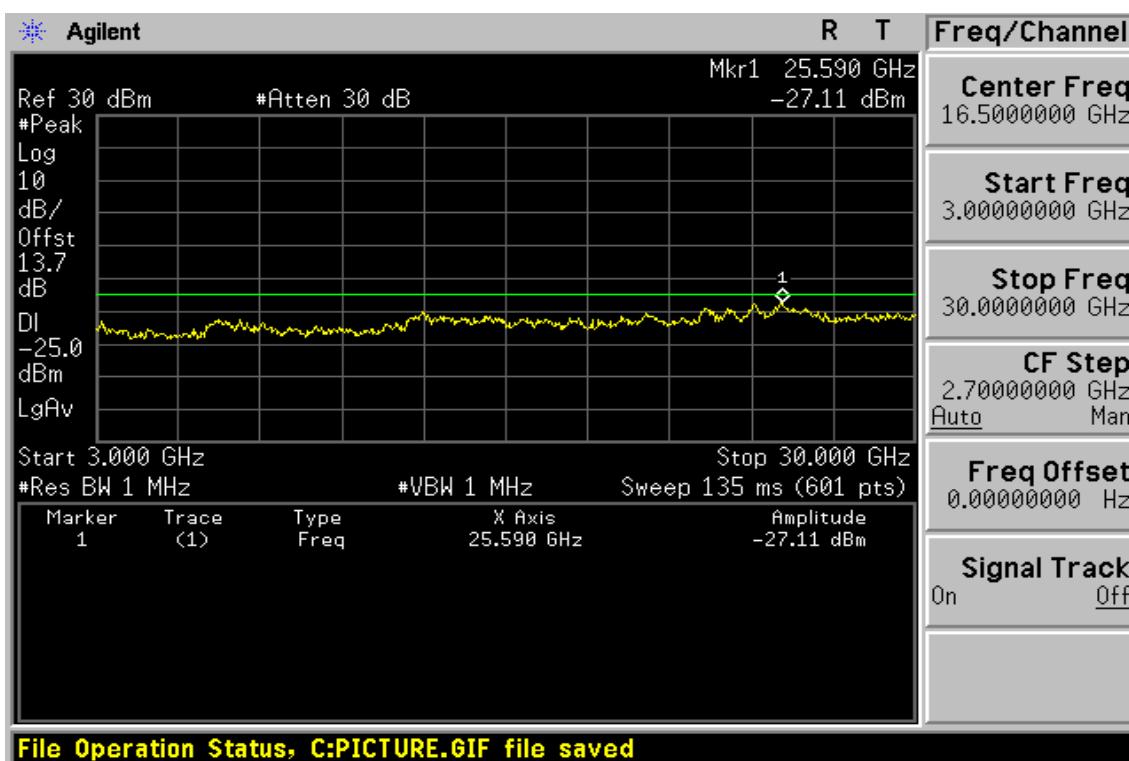
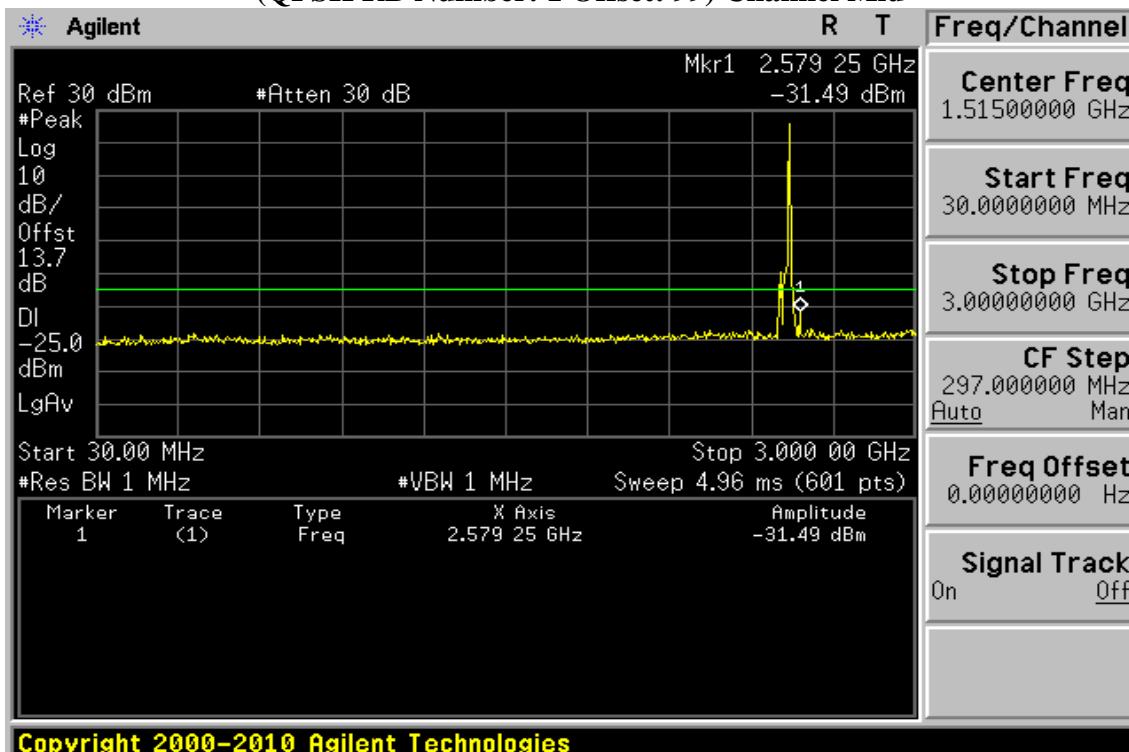
**Figure 10-246: Out of Band emission at antenna terminals–20MHz BW LTE-Band 7
(QPSK RB Number: 1 Offset: 99) Channel Lowest**



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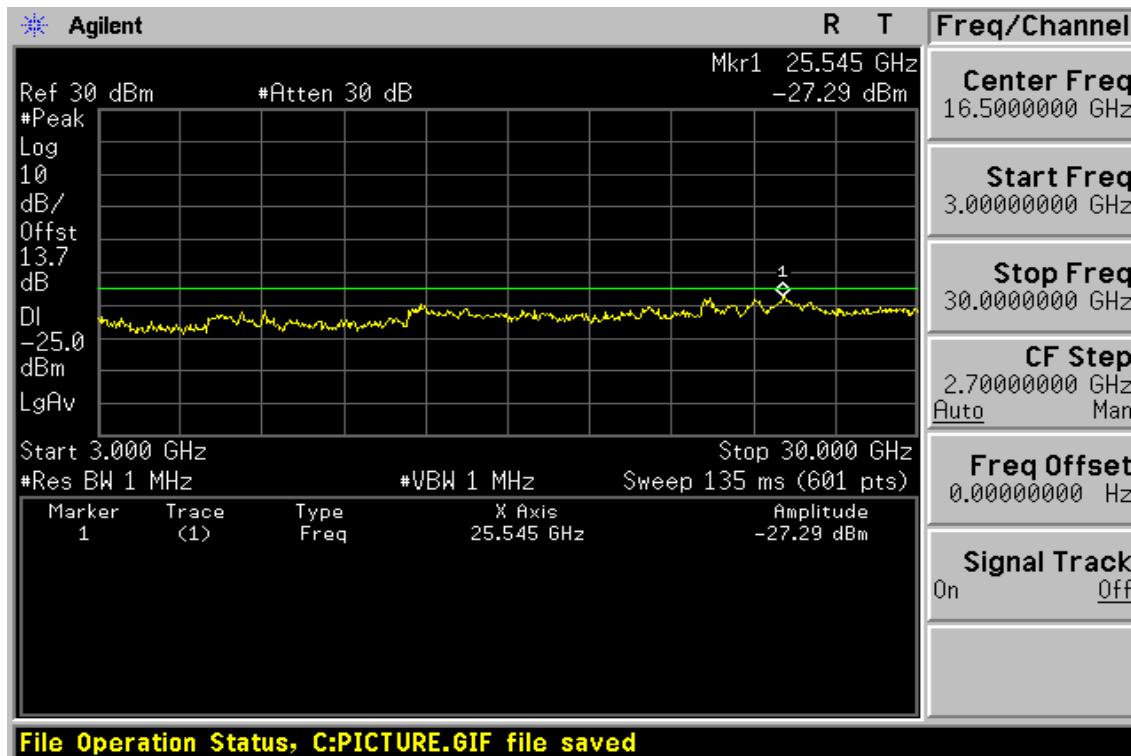
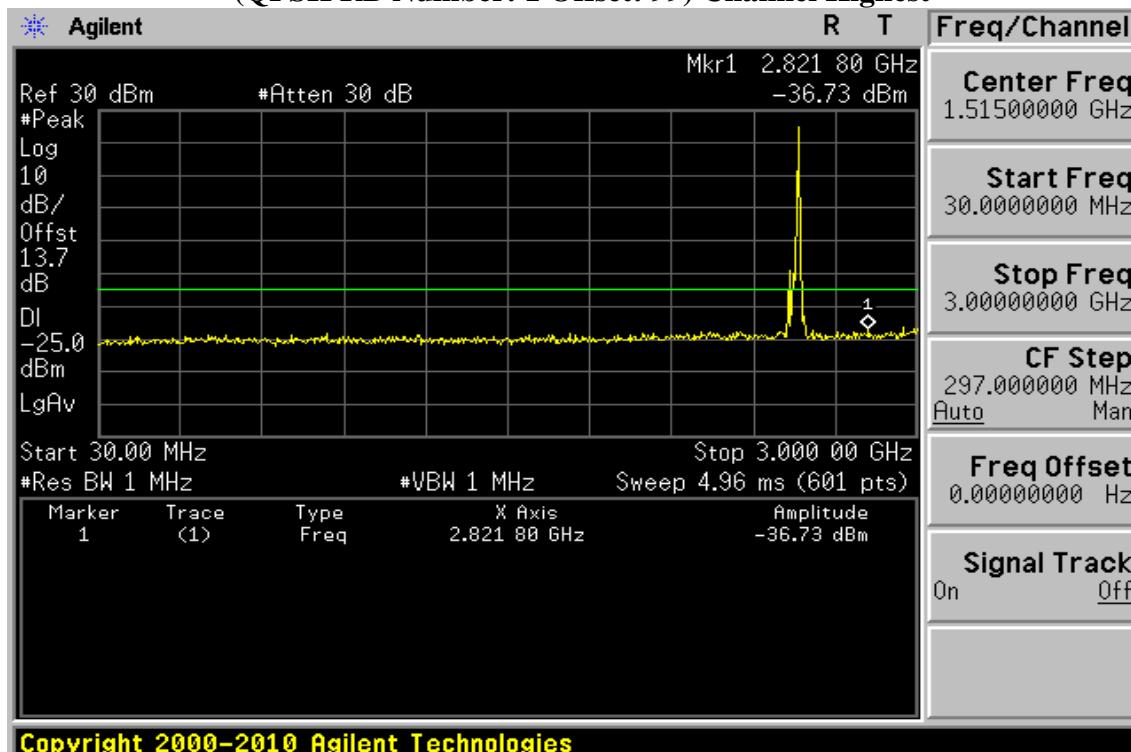
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Figure 10-247: Out of Band emission at antenna terminals –20MHz BW LTE-Band 7
(QPSK RB Number: 1 Offset: 99) Channel Mid

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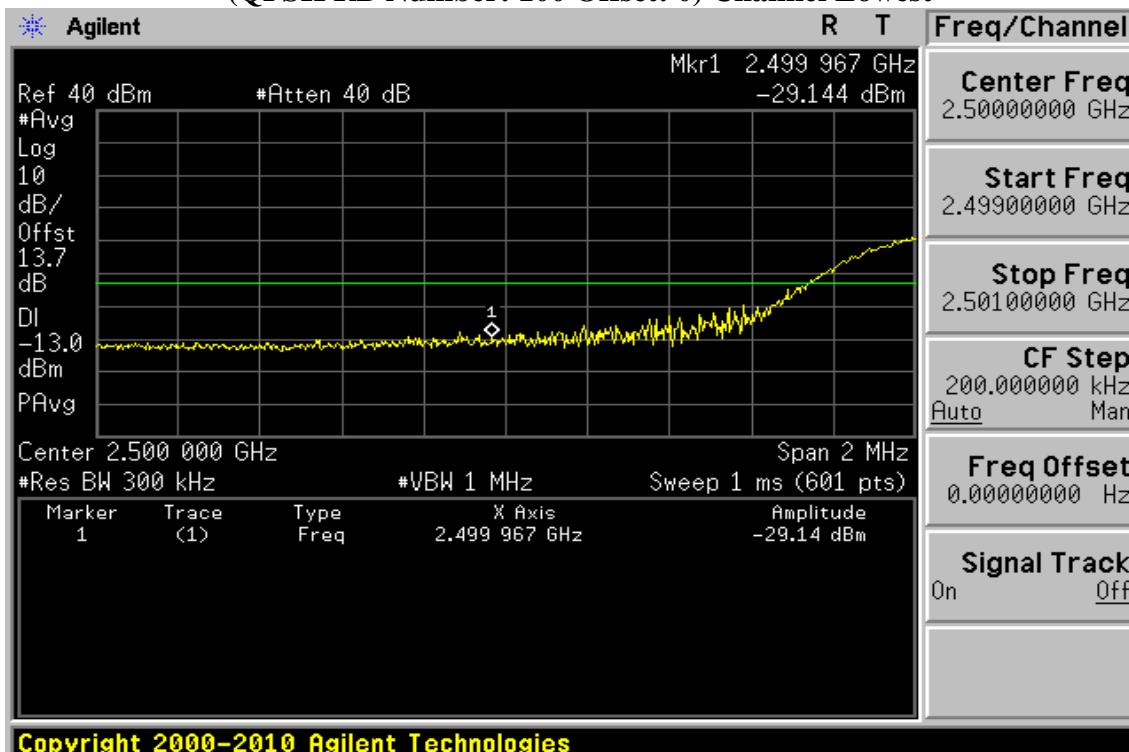
Figure 10-248: Out of Band emission at antenna terminals—20MHz BW LTE-Band 7
(QPSK RB Number: 1 Offset: 99) Channel Highest

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**Figure 10-249: Band edge emission at antenna terminals –20MHz BW LTE-Band 7
(QPSK RB Number: 100 Offset: 0) Channel Lowest**

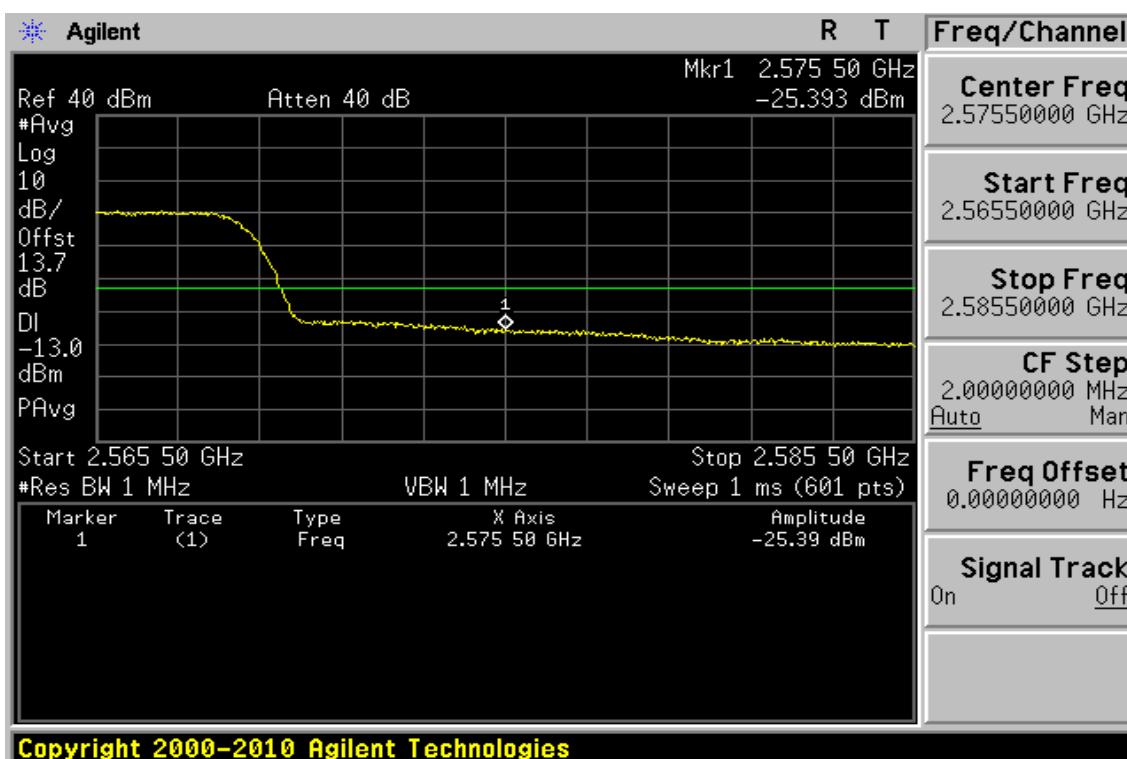
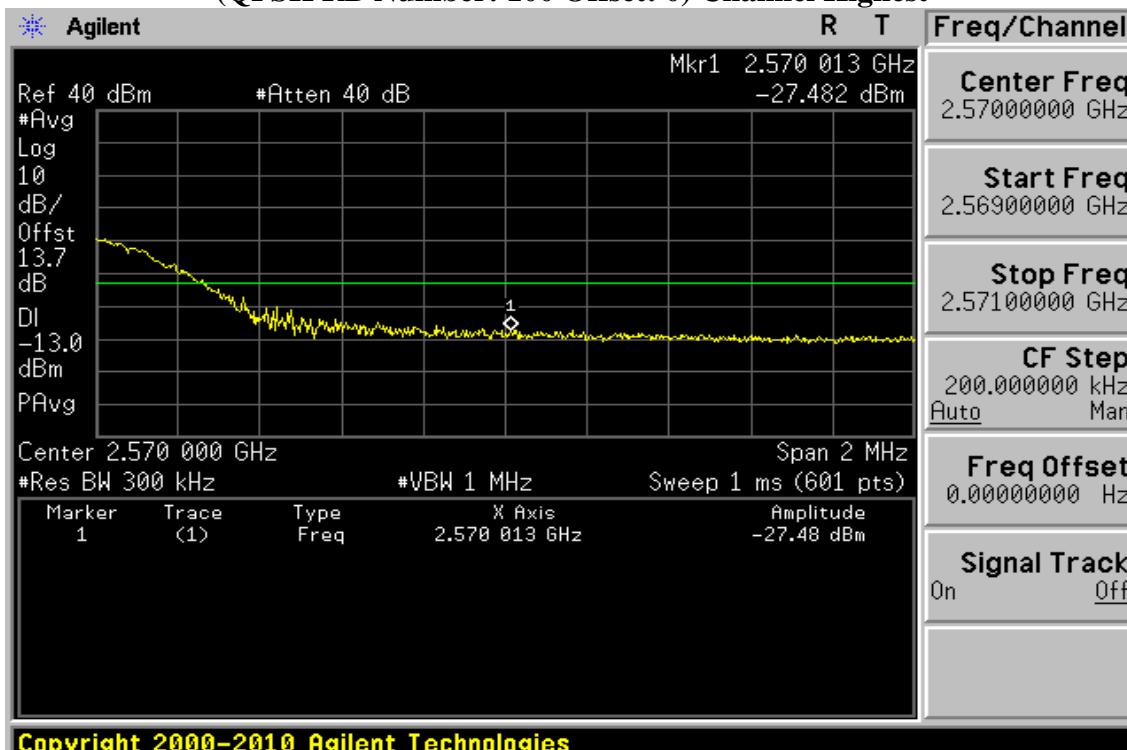


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**Figure 10-250: Band edge emission at antenna terminals –20MHz BW LTE-Band 7
(QPSK RB Number: 100 Offset: 0) Channel Highest**

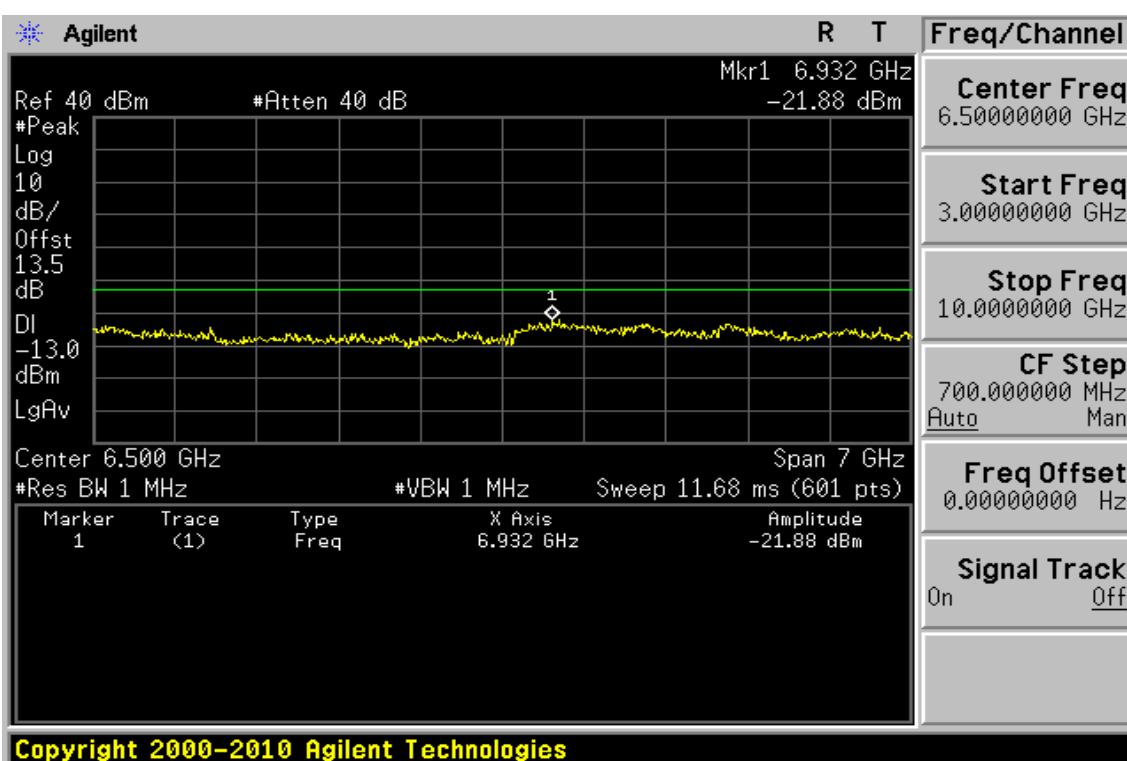
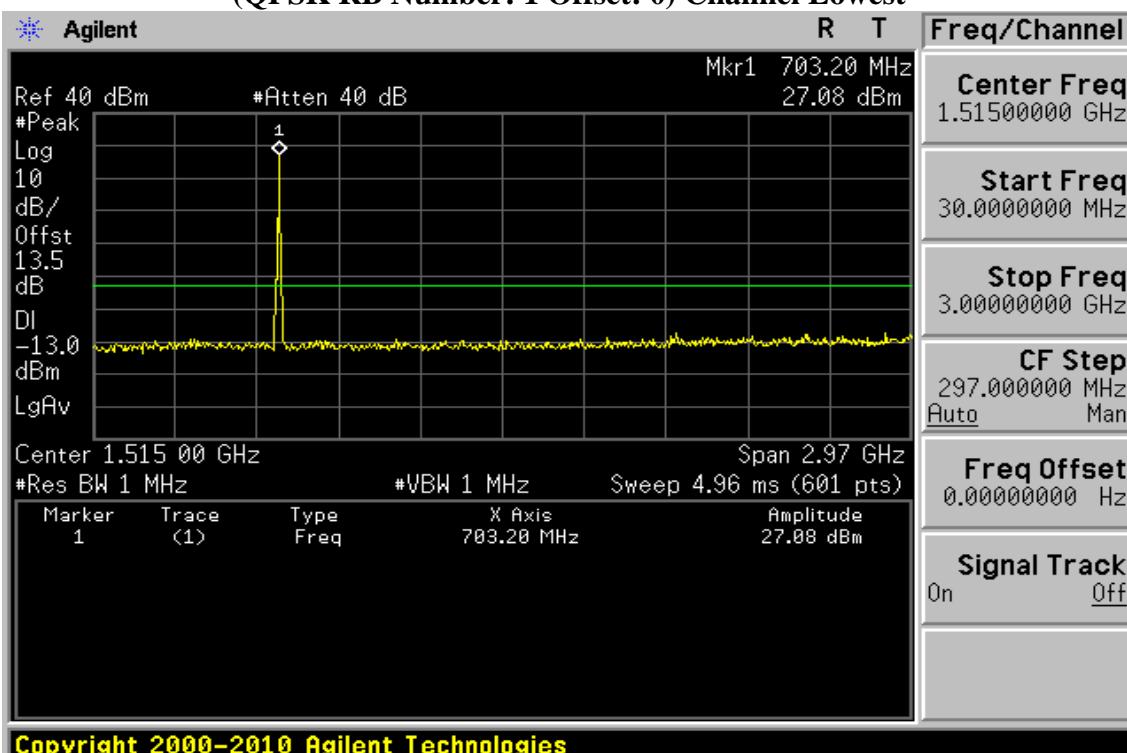


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Figure 10-251: Out of Band emission at antenna terminals—5MHz BW LTE-Band 17
(QPSK RB Number: 1 Offset: 0) Channel Lowest

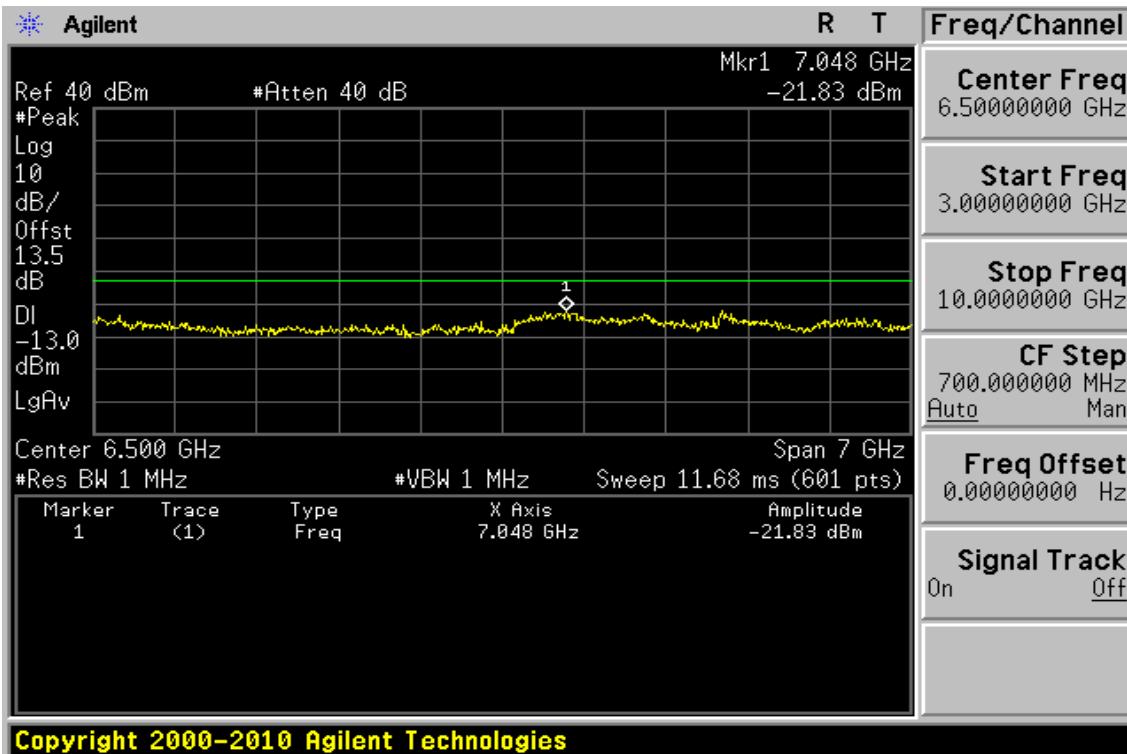
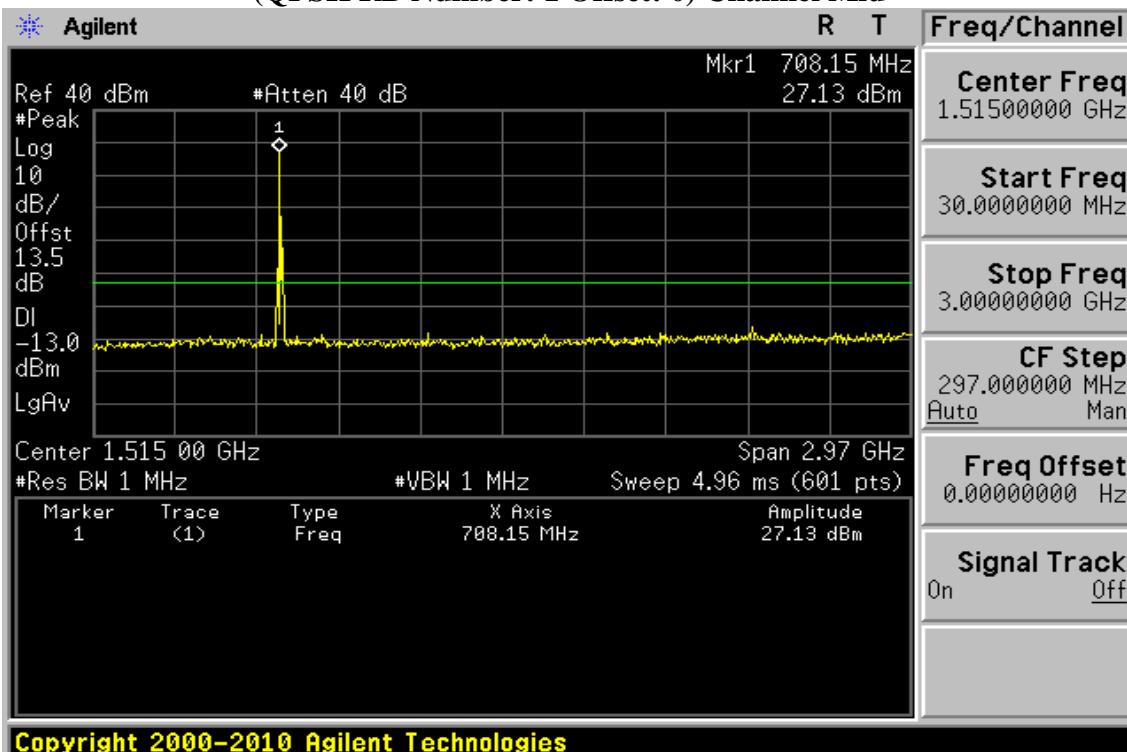


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**Figure 10-252: Out of Band emission at antenna terminals—5MHz BW LTE-Band 17
(QPSK RB Number: 1 Offset: 0) Channel Mid**

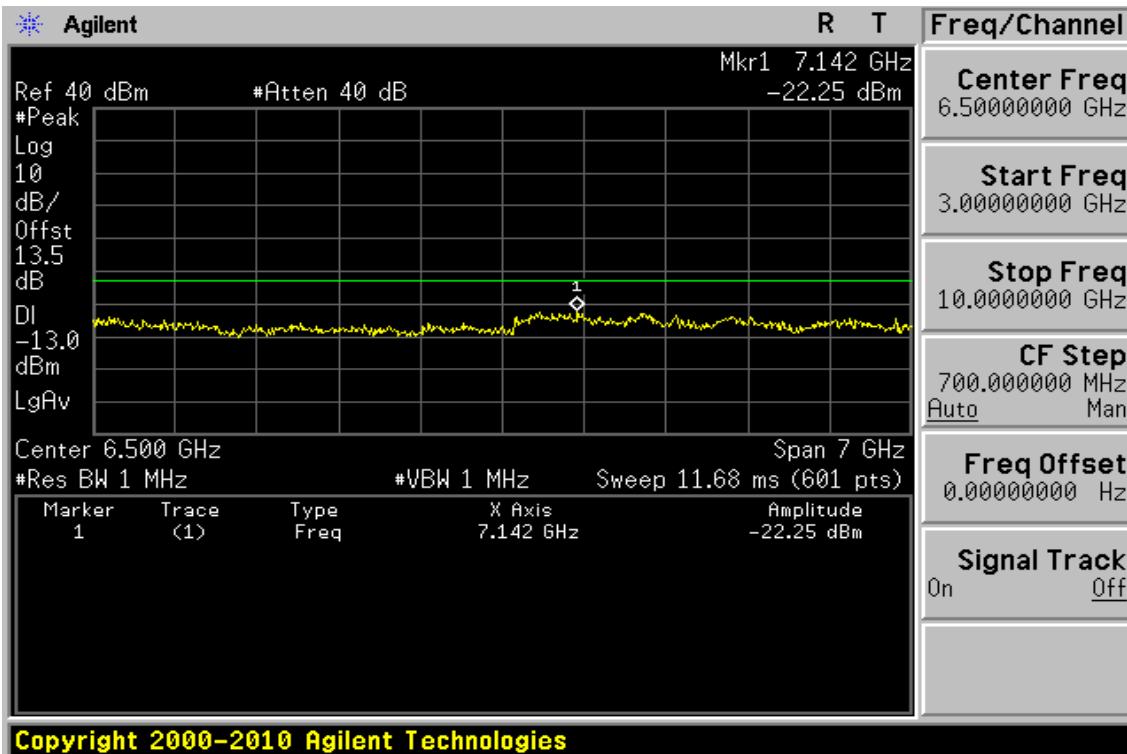
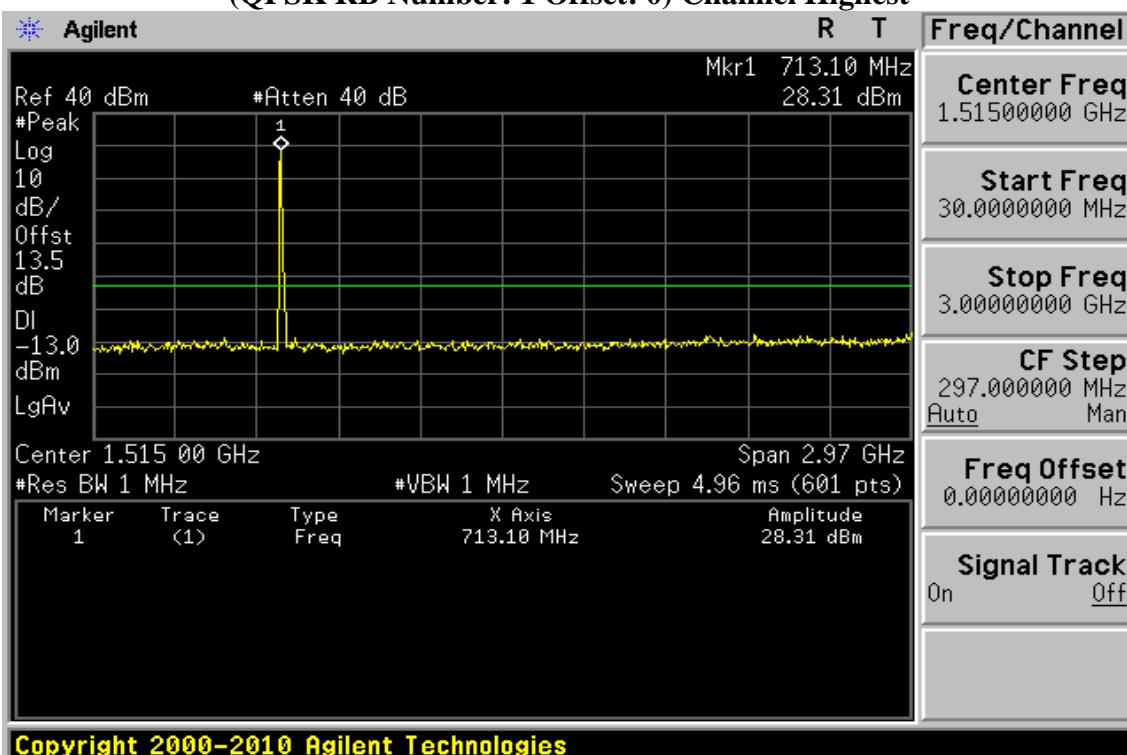


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**Figure 10-253: Out of Band emission at antenna terminals—5MHz BW LTE-Band 17
(QPSK RB Number: 1 Offset: 0) Channel Highest**

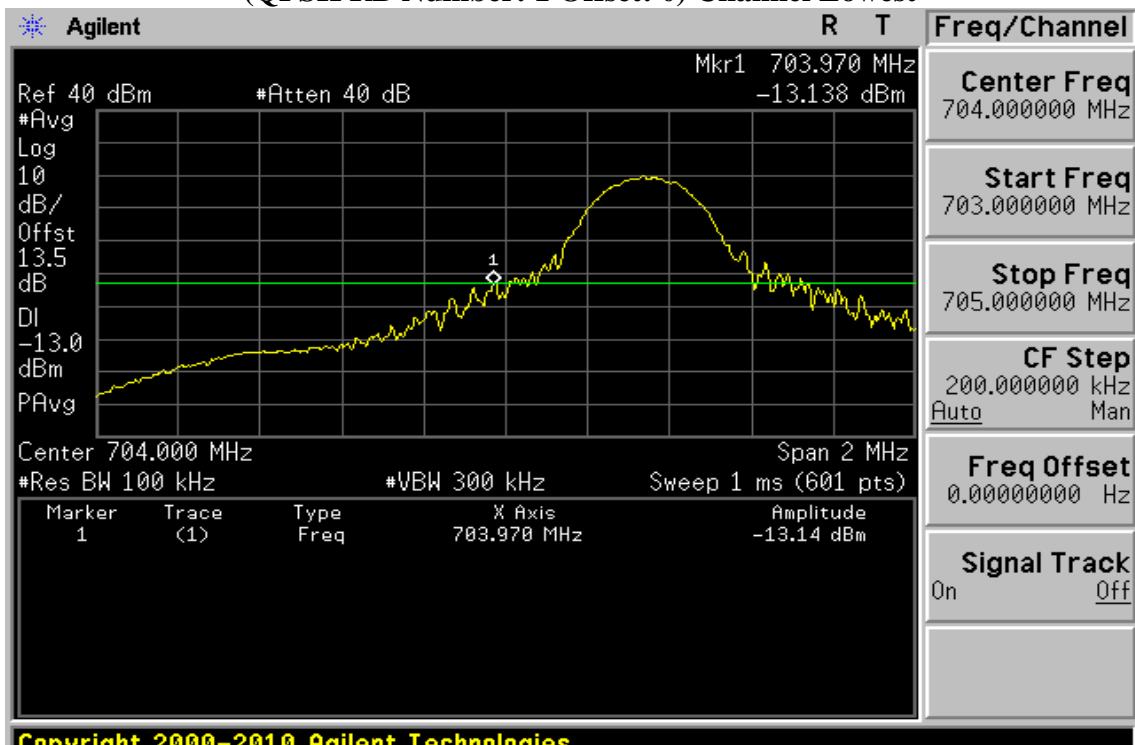


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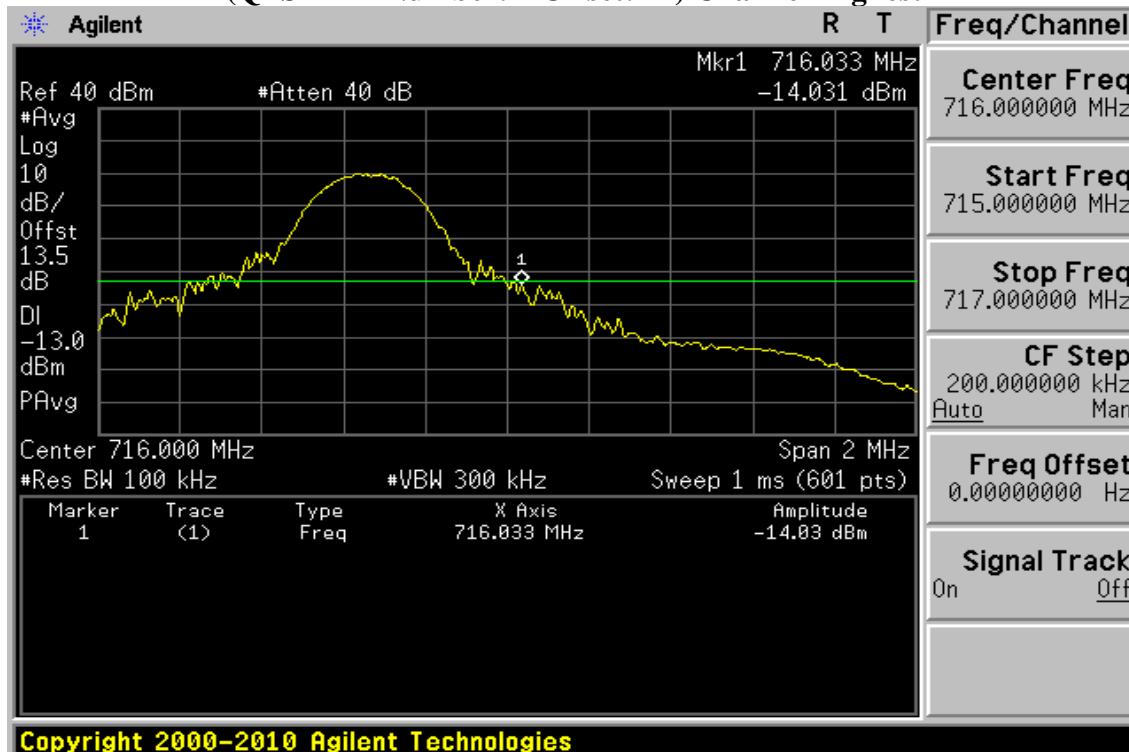
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**Figure 10-254: Band edge emission at antenna terminals –5MHz BW LTE-Band 17
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



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**Figure 10-255: Band edge emission at antenna terminals –5MHz BW LTE-Band 17
(QPSK RB Number: 1 Offset: 24) Channel Highest**



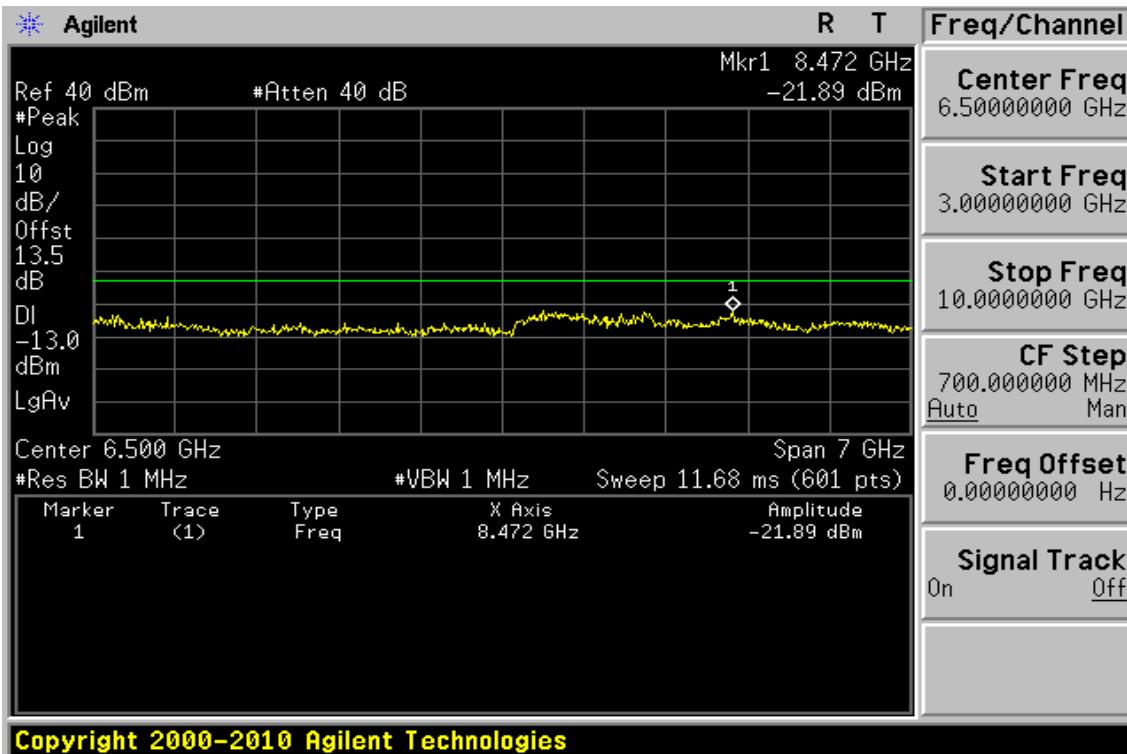
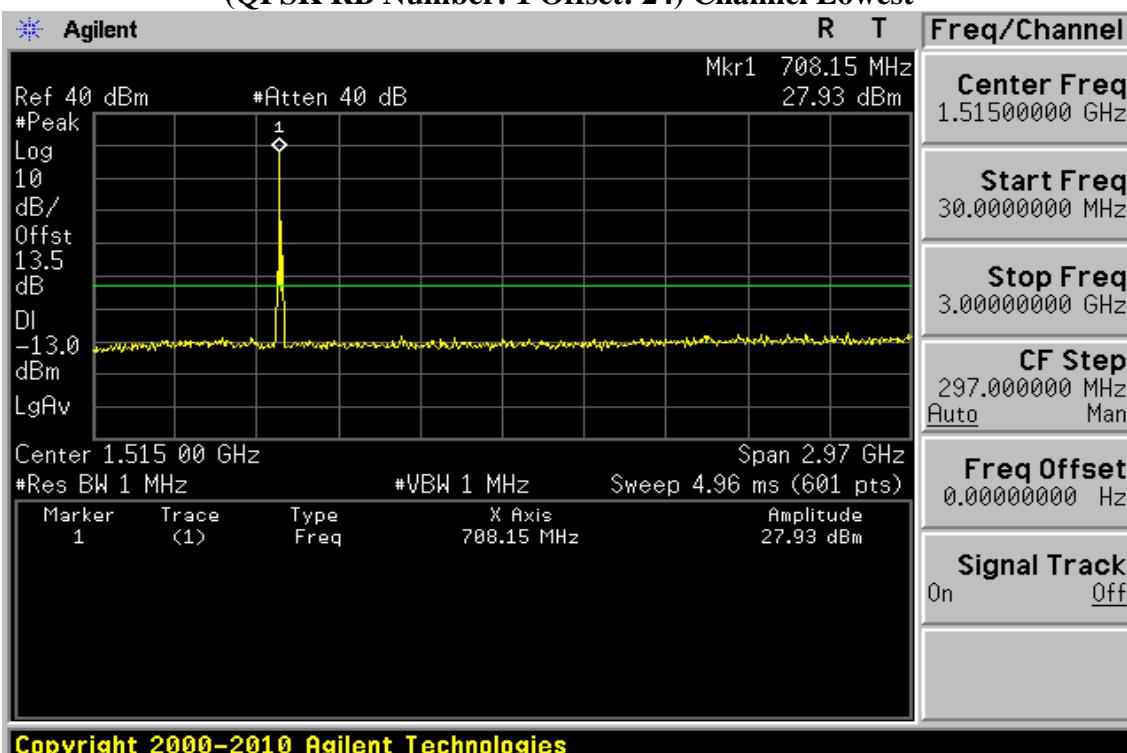
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**Figure 10-256: Out of Band emission at antenna terminals—5MHz BW LTE-Band 17
(QPSK RB Number: 1 Offset: 24) Channel Lowest**

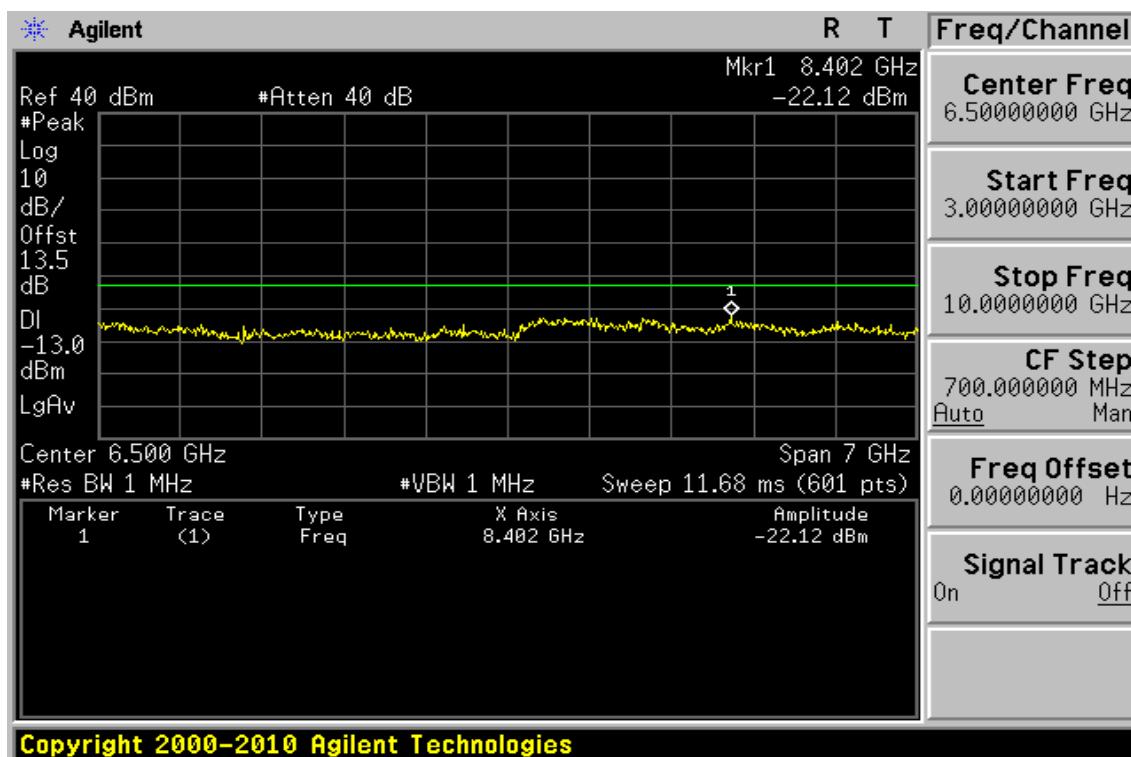
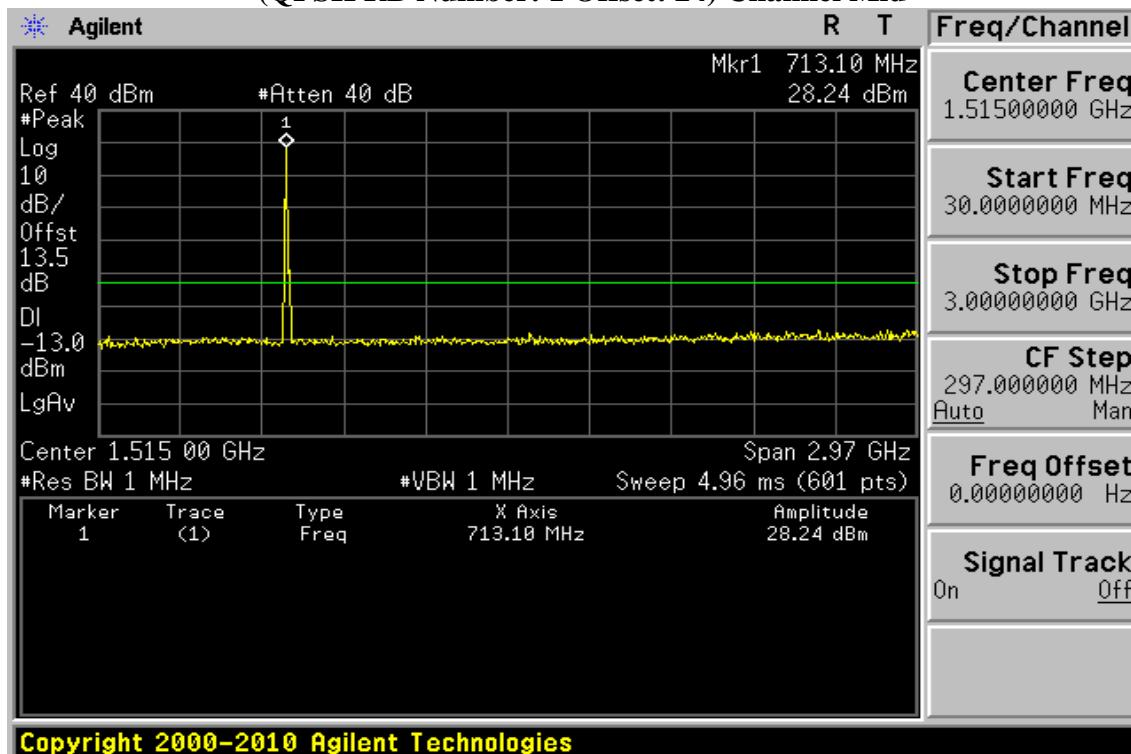


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Figure 10-257: Out of Band emission at antenna terminals –5MHz BW LTE-Band 17
(QPSK RB Number: 1 Offset: 24) Channel Mid

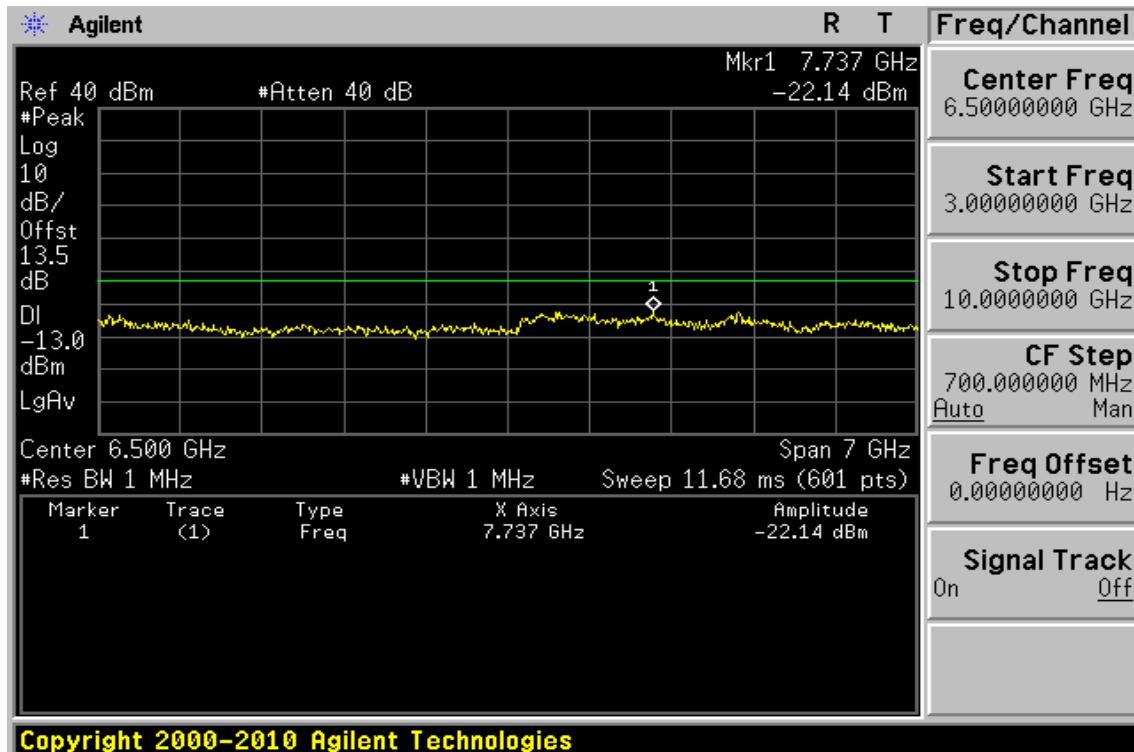
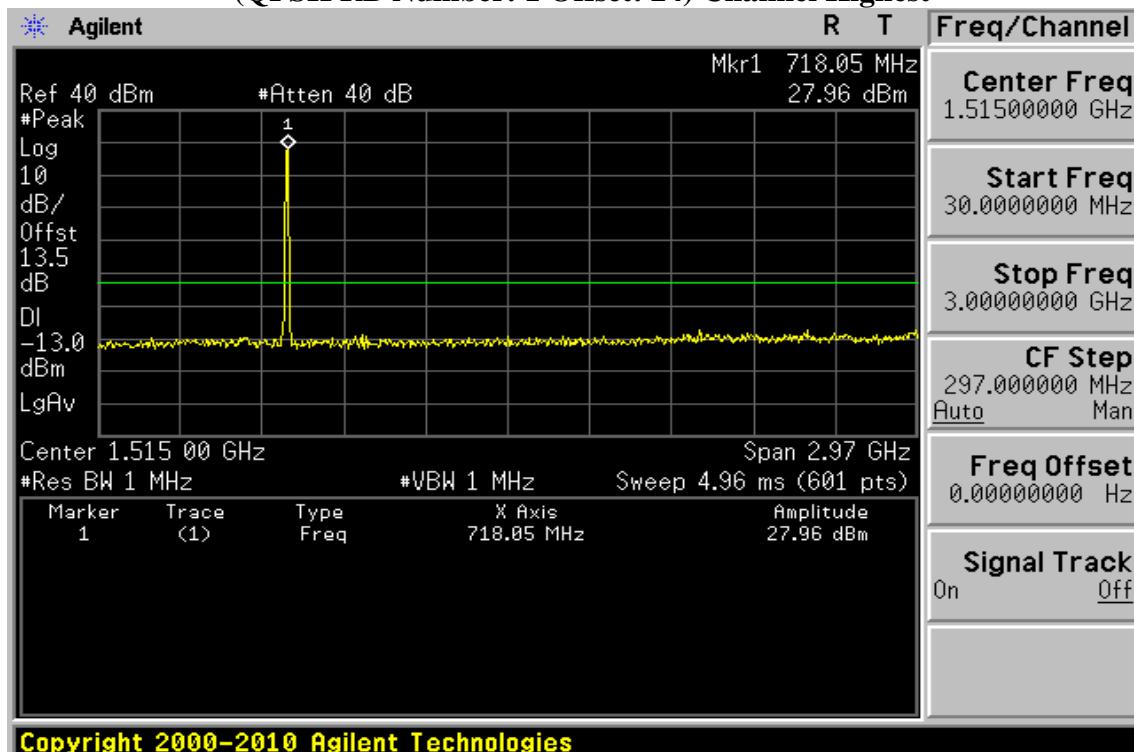


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**Figure 10-258: Out of Band emission at antenna terminals—5MHz BW LTE-Band 17
(QPSK RB Number: 1 Offset: 24) Channel Highest**

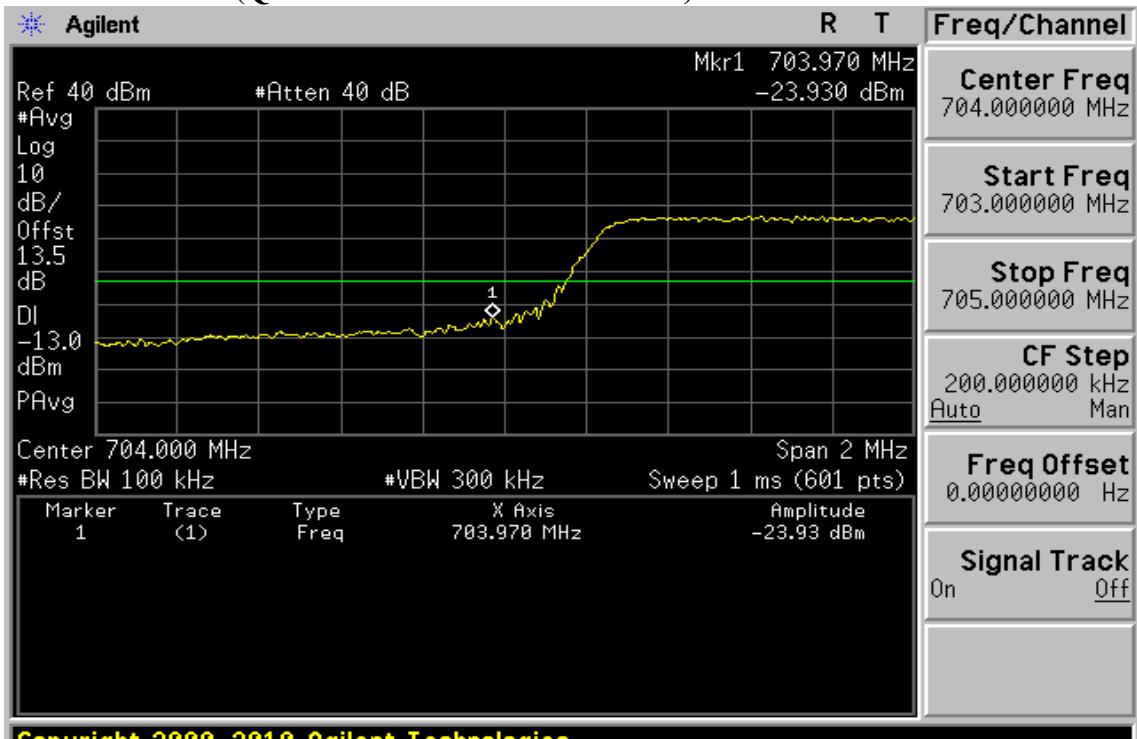


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**Figure 10-259: Band edge emission at antenna terminals –5MHz BW LTE-Band 17
(QPSK RB Number: 25 Offset: 0) Channel Lowest**



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**Figure 10-260: Band edge emission at antenna terminals –5MHz BW LTE-Band 17
(QPSK RB Number: 25 Offset: 0) Channel Highest**



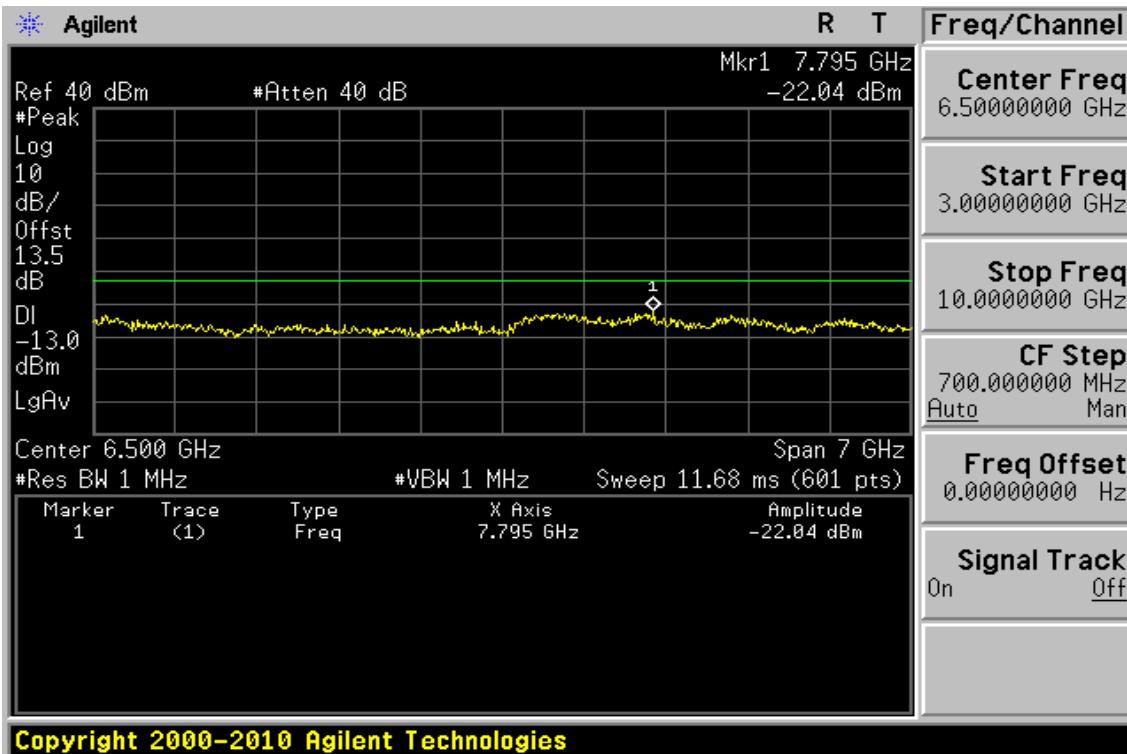
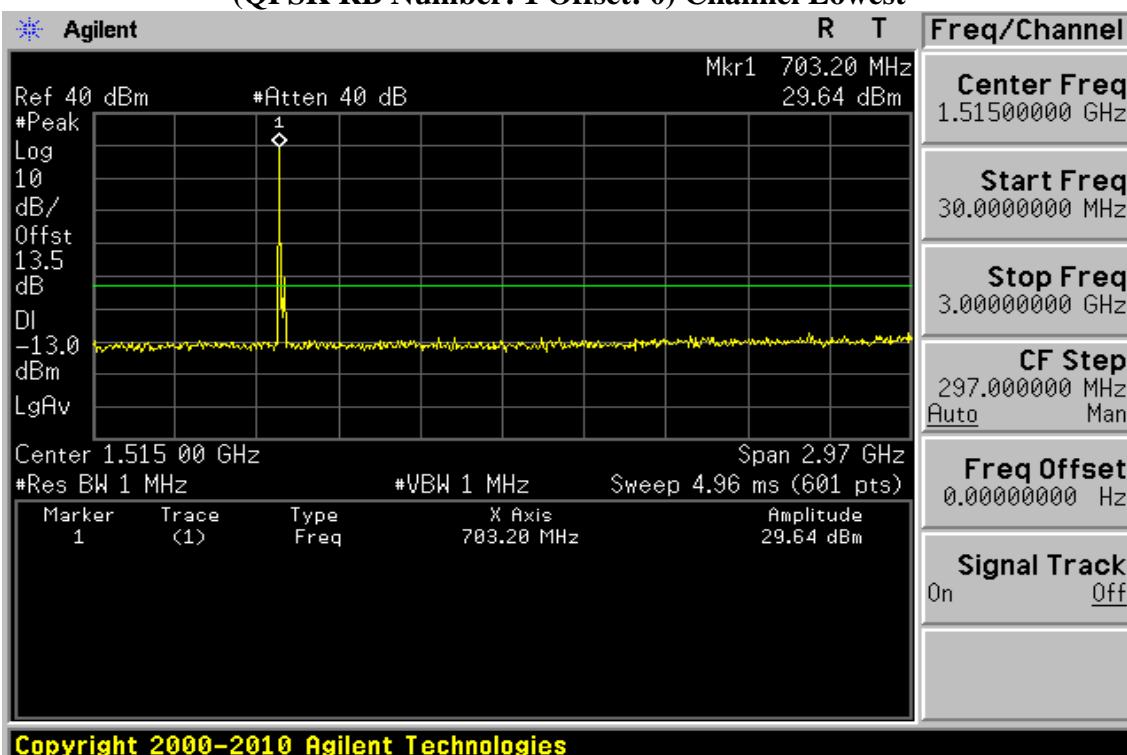
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**Figure 10-261: Out of Band emission at antenna terminals—10MHz BW LTE-Band 17
(QPSK RB Number: 1 Offset: 0) Channel Lowest**

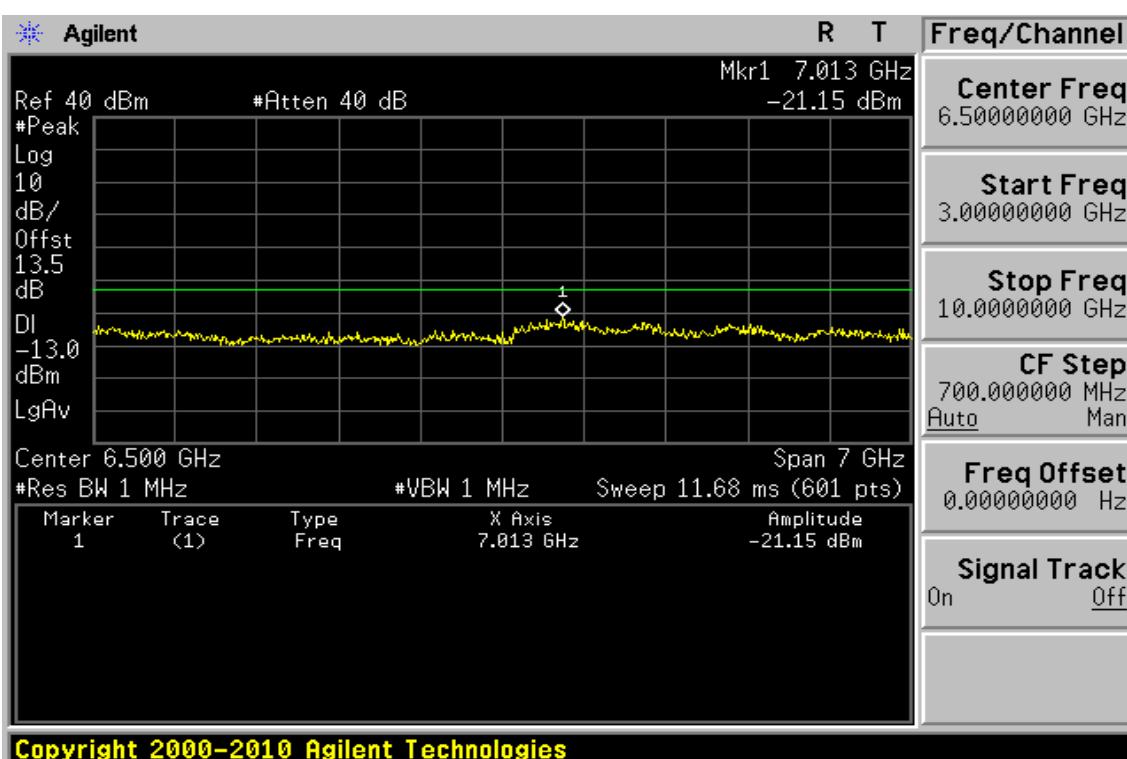
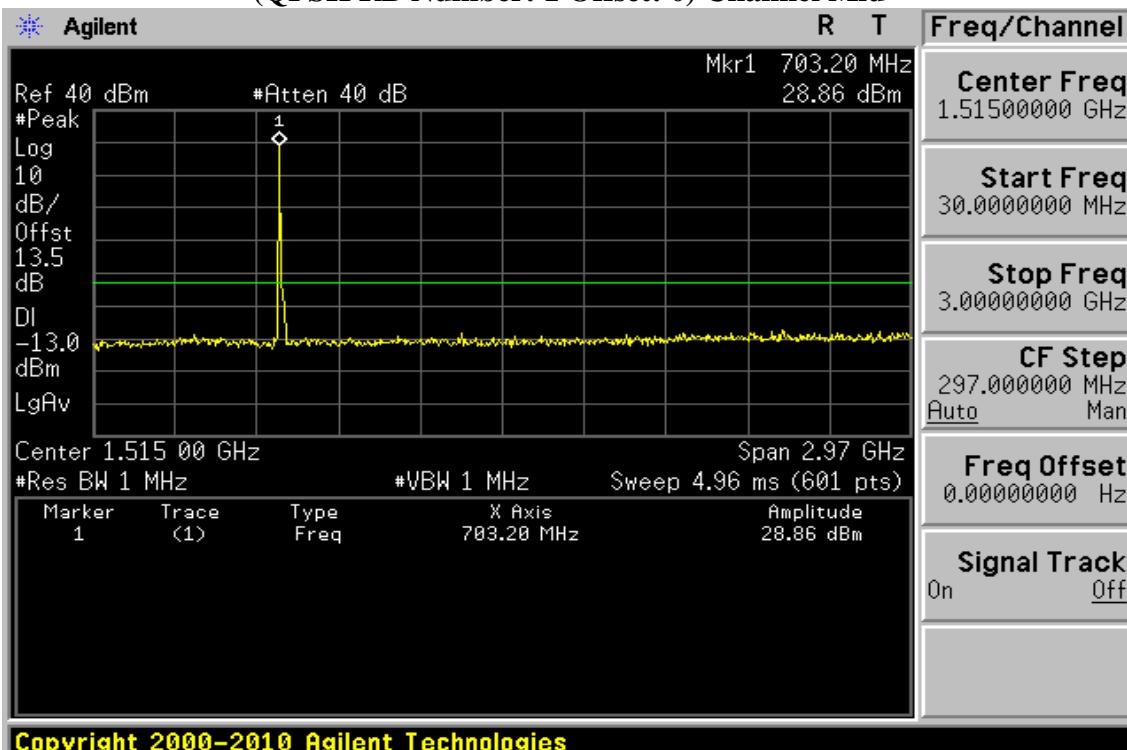


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**Figure 10-262: Out of Band emission at antenna terminals—10MHz BW LTE-Band 17
(QPSK RB Number: 1 Offset: 0) Channel Mid**

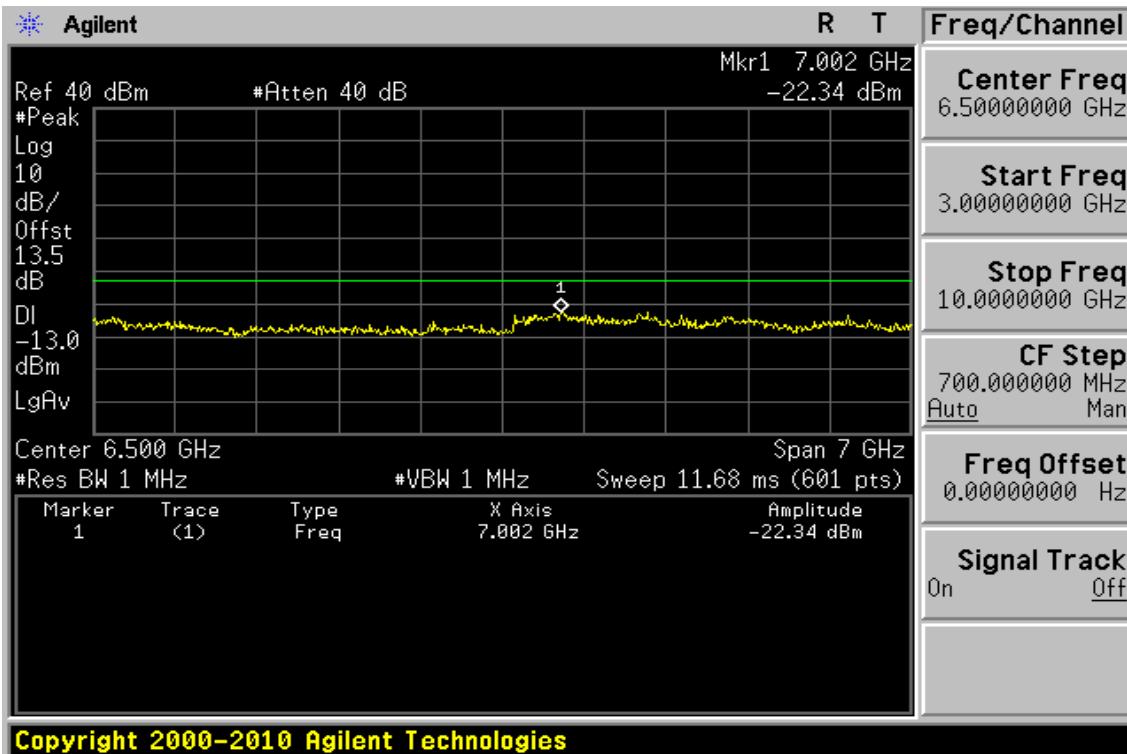
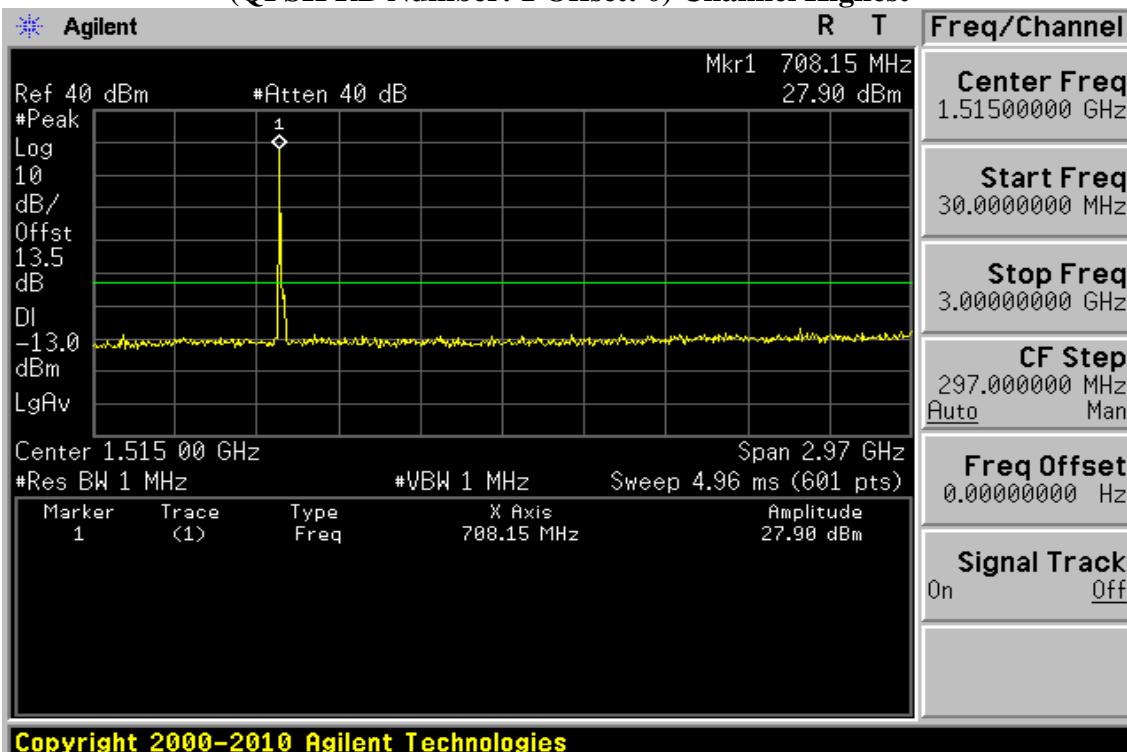


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**Figure 10-263: Out of Band emission at antenna terminals–10MHz BW LTE-Band 17
(QPSK RB Number: 1 Offset: 0) Channel Highest**

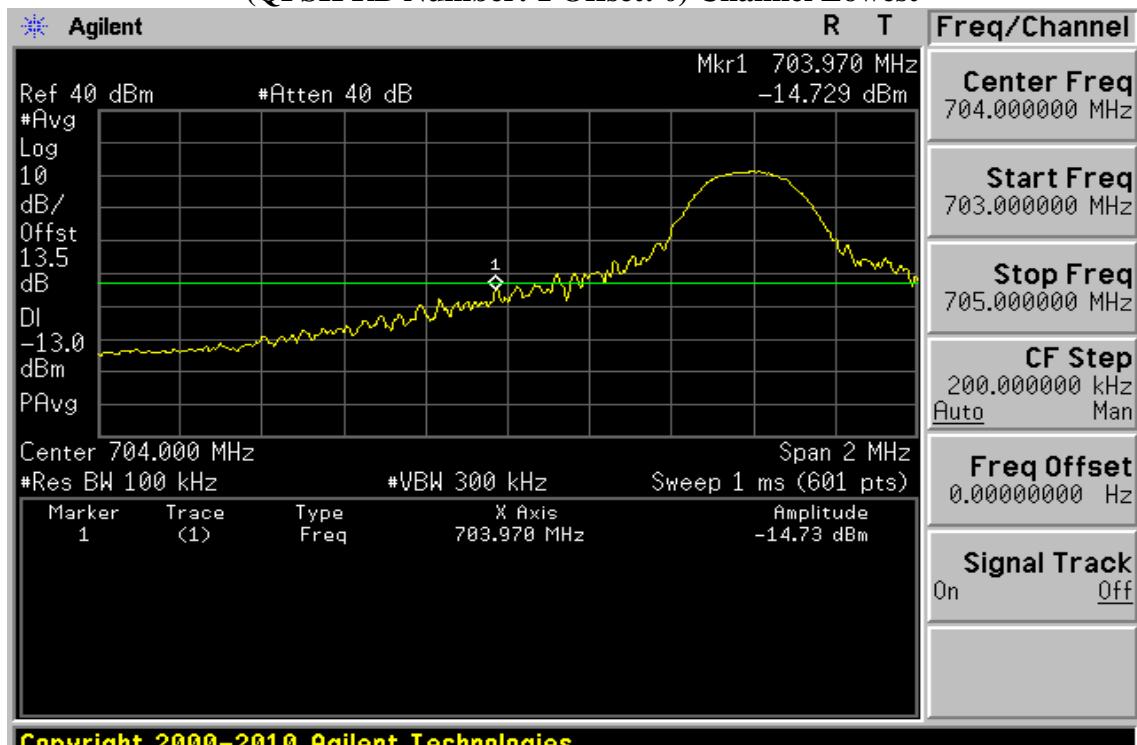


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**Figure 10-264: Band edge emission at antenna terminals –10MHz BW LTE-Band 17
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Figure 10-265: Band edge emission at antenna terminals –10MHz BW LTE-Band 17
(QPSK RB Number: 1 Offset: 49) Channel Highest**

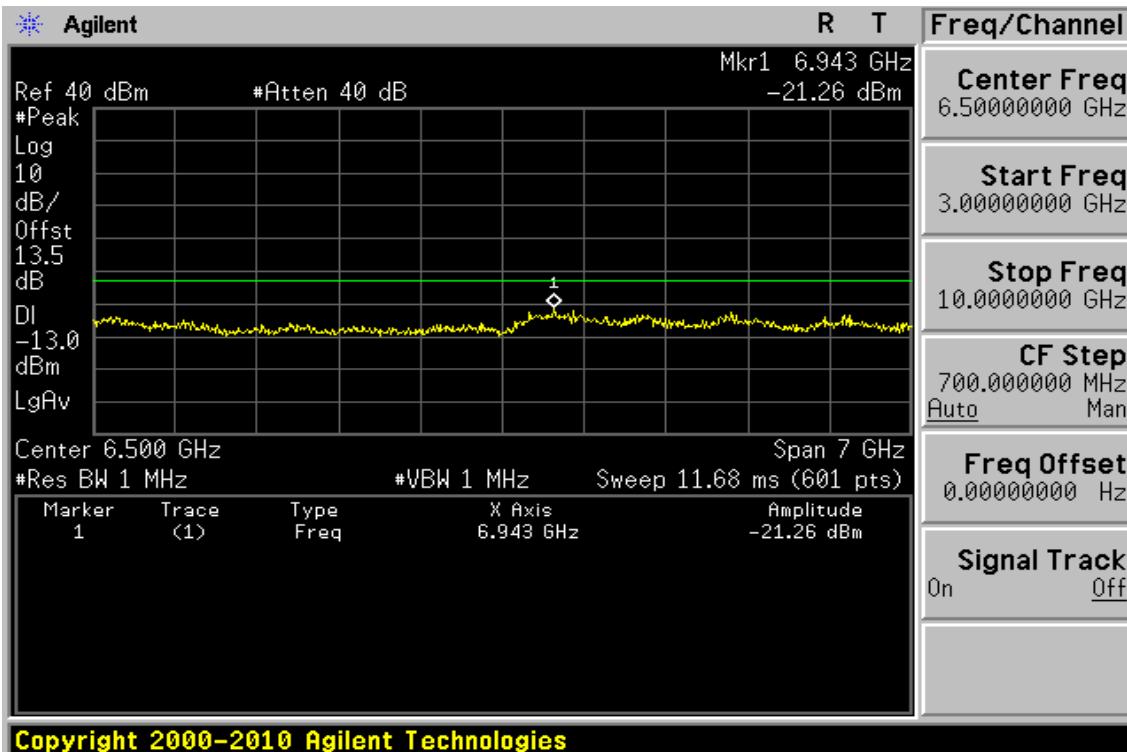
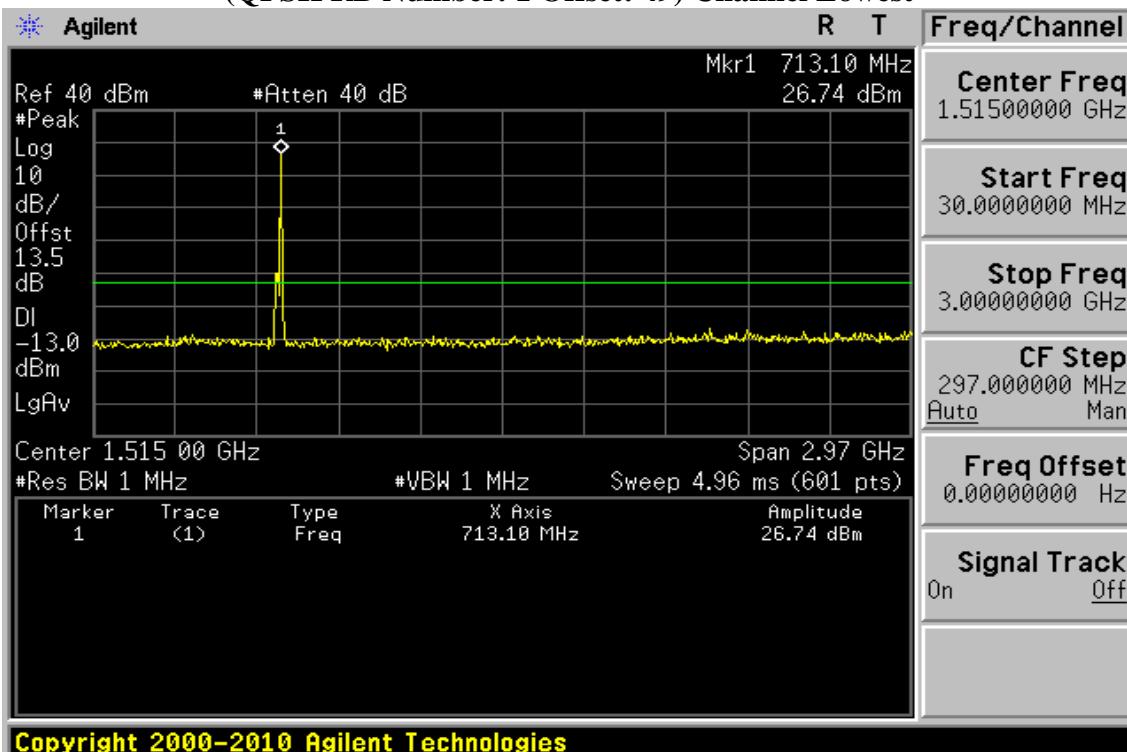


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**Figure 10-266: Out of Band emission at antenna terminals–10MHz BW LTE-Band 17
(QPSK RB Number: 1 Offset: 49) Channel Lowest**

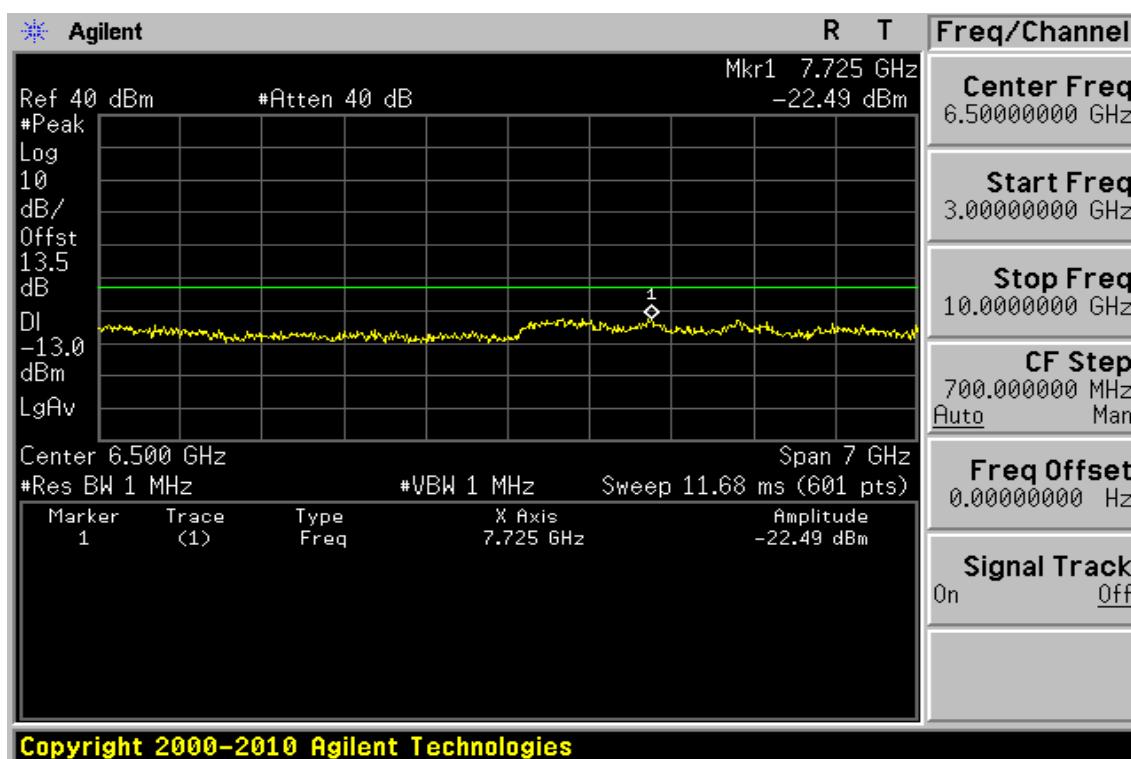
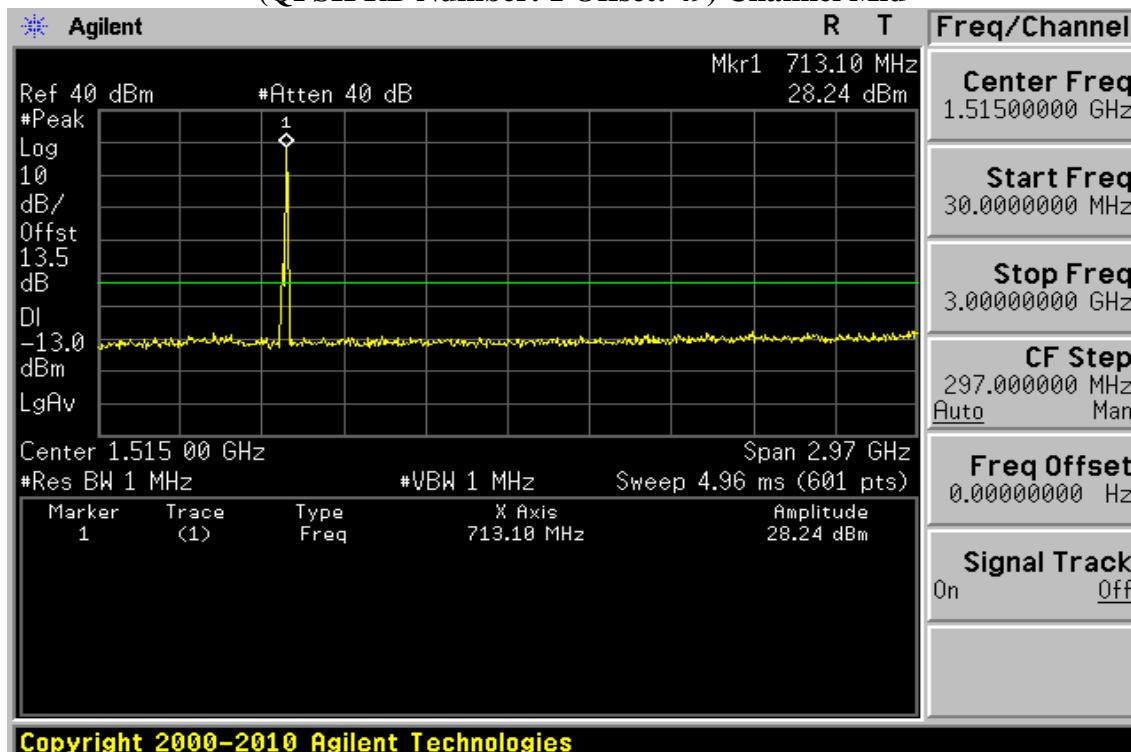


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**Figure 10-267: Out of Band emission at antenna terminals –10MHz BW LTE-Band 17
(QPSK RB Number: 1 Offset: 49) Channel Mid**

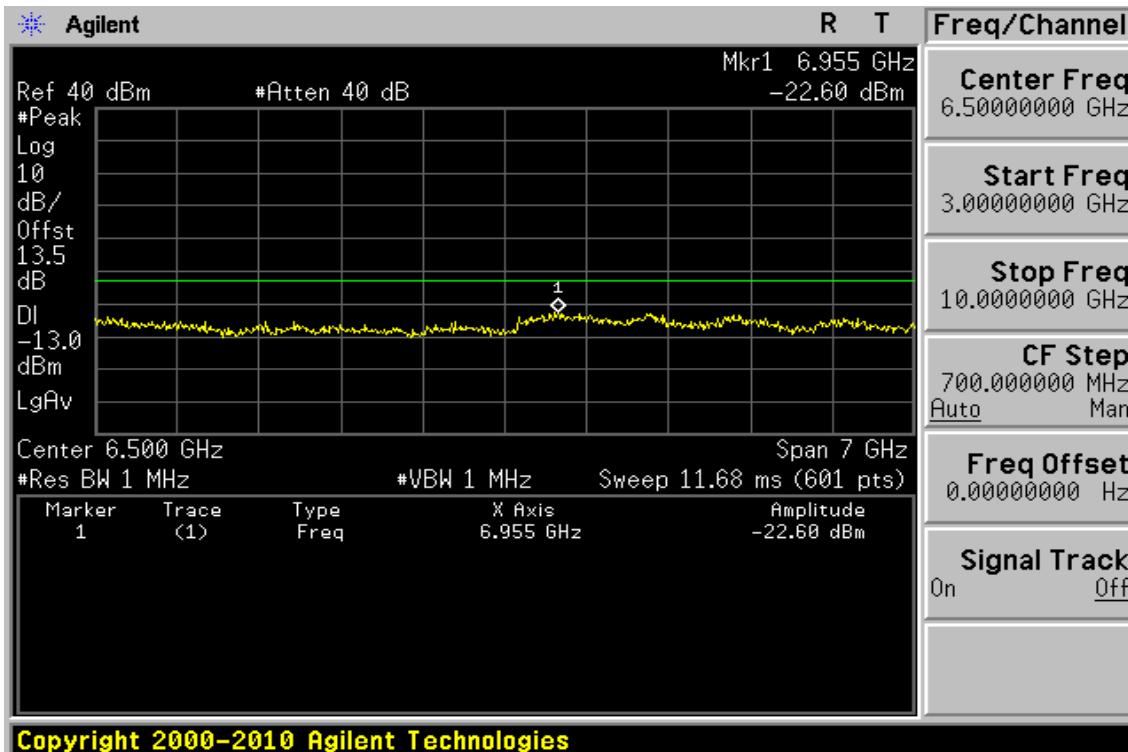
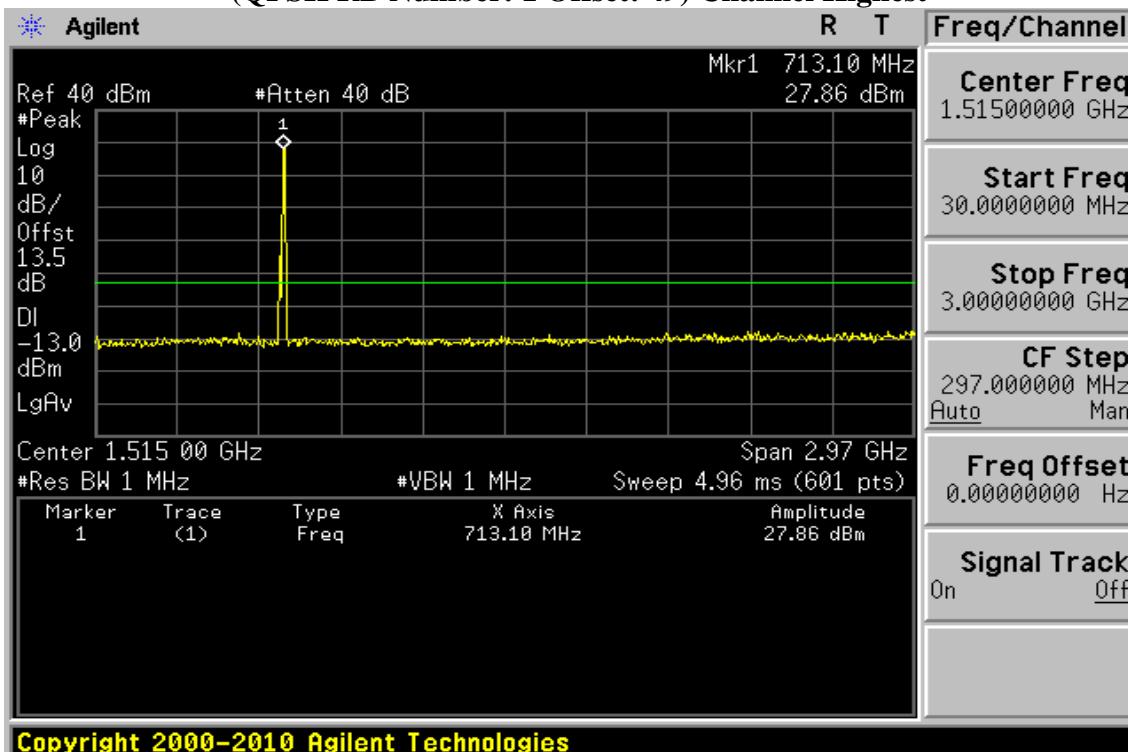


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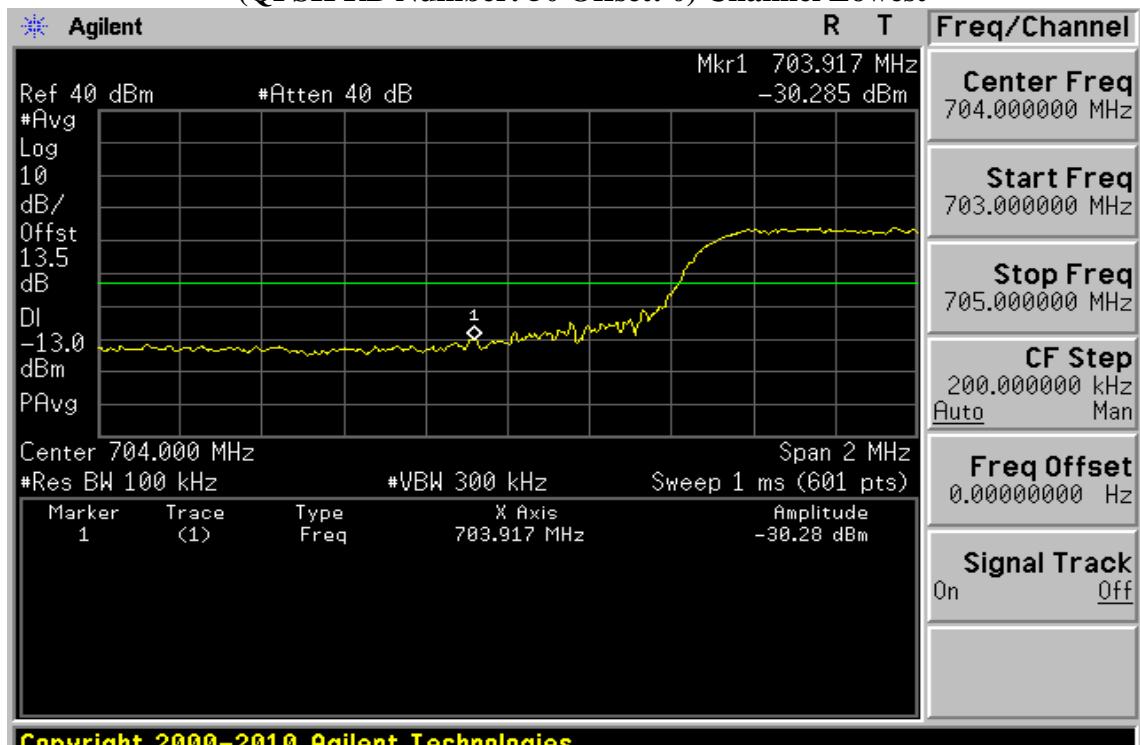
**Figure 10-268: Out of Band emission at antenna terminals–10MHz BW LTE-Band 17
(QPSK RB Number: 1 Offset: 49) Channel Highest**



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**Figure 10-269: Band edge emission at antenna terminals –10MHz BW LTE-Band 17
(QPSK RB Number: 50 Offset: 0) Channel Lowest**



**Figure 10-270: Band edge emission at antenna terminals –10MHz BW LTE-Band 17
(QPSK RB Number: 50 Offset: 0) Channel Highest**



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11. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

11.1. Standard Applicable:

According to FCC §2.1053,

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

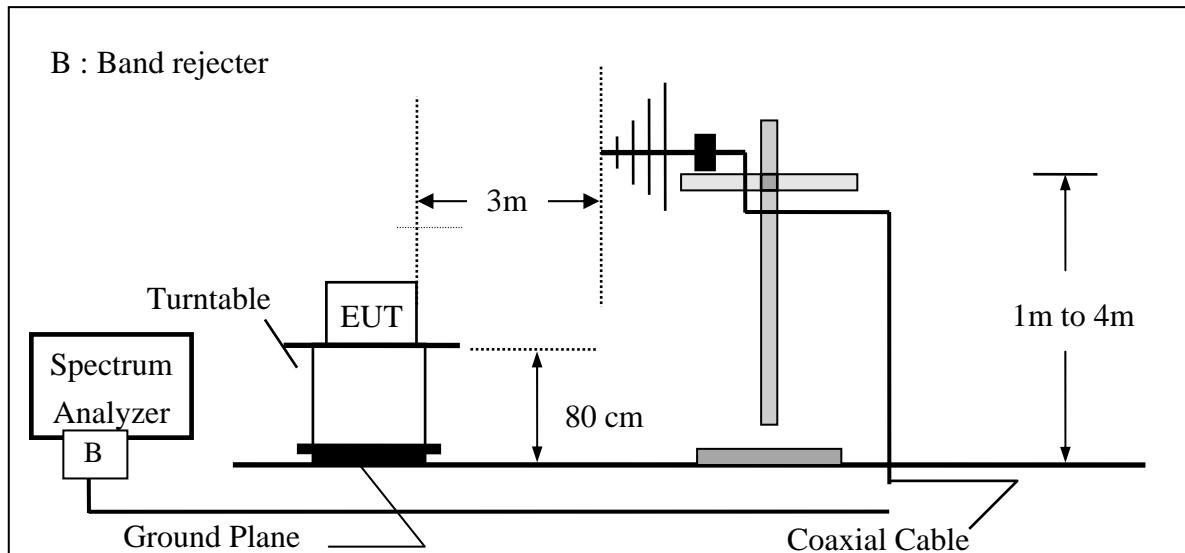
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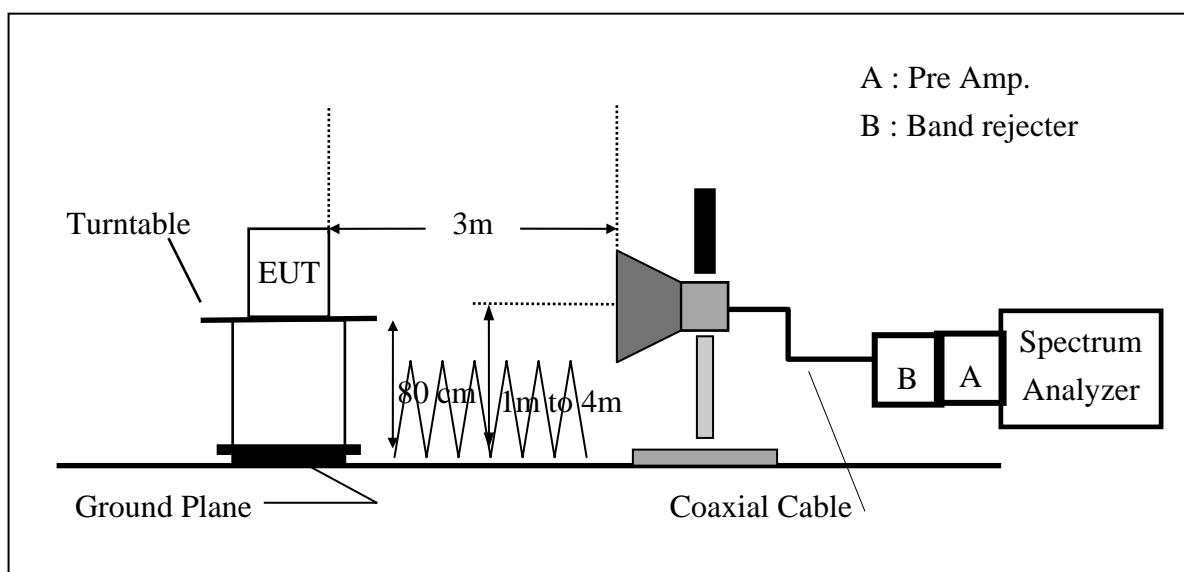
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11.2. EUT Setup (Block Diagram of Configuration):

Radiated Emission Test Set-Up, Frequency Below 1000MHz



Radiated Emission Test Set-UP Frequency Over 1 GHz



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11.3. 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 frequency (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.

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

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

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

Spectrum Setting: RBW, VBW = 1MHz, Detector = Peak (GPRS1900/WCDMA/HSPA BII/LTE Band2/LTE Band 7, RBW, VBW = 100kHz, Detector = Peak (GPRS850/WCDMA/HSPA BV/LTE B5/LTE Band17).

11.4. Measurement Equipment Used:

Refer to section 2.4 in this report

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11.5. Measurement Result:

Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Band	:GSM 850	Test Date	:2013-12-19
ARFCN	:CH 128	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:824.2 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

Freq. MHz	Note F/H/E/S	ERP dBm	SG	Antenna	Cable	Limit	Margin
			Output Level dBm	Gain dBd	Loss dB	dBm	dB
45.52	S	-51.02	-36.74	-13.36	-0.92	-13.00	-38.02
68.80	S	-66.20	-58.12	-7.08	-1.00	-13.00	-53.20
88.20	S	-61.40	-59.14	-1.09	-1.17	-13.00	-48.40
105.66	S	-59.42	-56.46	-1.74	-1.22	-13.00	-46.42
599.39	S	-63.69	-64.52	3.45	-2.62	-13.00	-50.69
634.31	S	-63.61	-64.73	3.79	-2.66	-13.00	-50.61
1648.40	H	-60.07	-59.19	3.54	-4.42	-13.00	-47.07
2472.60	H	-45.98	-44.17	3.65	-5.45	-13.00	-32.98
3296.80	H	---					
4121.00	H	---					
4945.20	H	---					
5769.40	H	---					
6593.60	H	---					
7417.80	H	---					
8242.00	H	-49.43	-49.71	10.60	-10.32	-13.00	-36.43

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

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 :GSM 850
 ARFCN :CH 128
 Fundamental Frequency :824.2 MHz
 Operation Mode :TX LOW
 EUT Pol. :E2 Plane

Test Date :2013-12-19
 Temp./Humi. :24 deg_C / 59 RH
 Engineer :Curry

Measurement Antenna Pol. :HORIZONTAL

Freq. MHz	Note F/H/E/S	ERP dBm	SG	Antenna	Cable	Limit	Margin
			Output Level dBm	Gain dBd	Loss dB	dBm	dB
45.52	S	-38.81	-24.53	-13.36	-0.92	-13.00	-25.81
68.80	S	-61.52	-53.43	-7.08	-1.00	-13.00	-48.52
105.66	S	-62.88	-59.92	-1.74	-1.22	-13.00	-49.88
308.39	S	-68.73	-70.56	3.72	-1.89	-13.00	-55.73
418.00	S	-69.87	-71.46	3.72	-2.13	-13.00	-56.87
713.85	S	-69.50	-70.55	3.82	-2.77	-13.00	-56.50
1648.40	H	-61.04	-60.16	3.54	-4.42	-13.00	-48.04
2472.60	H	-49.87	-48.06	3.65	-5.45	-13.00	-36.87
3296.80	H	---					
4121.00	H	---					
4945.20	H	---					
5769.40	H	---					
6593.60	H	---					
7417.80	H	---					
8242.00	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 :GSM 850
 ARFCN :CH 190
 Fundamental Frequency :836.6 MHz
 Operation Mode :TX MID
 EUT Pol. :E2 Plane

Test Date :2013-12-19
 Temp./Humi. :24 deg_C / 59 RH
 Engineer :Curry

Measurement Antenna Pol. :VERTICAL

Freq. MHz	Note F/H/E/S	ERP dBm	SG	Antenna	Cable	Limit	Margin
			Output Level dBm	Gain dBd	Loss dB	dBm	dB
45.52	S	-48.37	-34.10	-13.36	-0.92	-13.00	-35.37
88.20	S	-63.48	-61.22	-1.09	-1.17	-13.00	-50.48
106.63	S	-58.60	-55.54	-1.84	-1.23	-13.00	-45.60
308.39	S	-70.16	-71.98	3.72	-1.89	-13.00	-57.16
350.10	S	-70.66	-72.84	4.16	-1.98	-13.00	-57.66
676.02	S	-64.75	-65.95	3.91	-2.71	-13.00	-51.75
1673.20	H	-58.63	-57.65	3.47	-4.45	-13.00	-45.63
2509.80	H	-57.19	-55.42	3.72	-5.49	-13.00	-44.19
3346.40	H	---					
4183.00	H	---					
5019.60	H	---					
5856.20	H	---					
6692.80	H	---					
7529.40	H	---					
8366.00	H	-48.75	-49.05	10.70	-10.40	-13.00	-35.75

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

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 :GSM 850
ARFCN :CH 190
Fundamental Frequency :836.6 MHz
Operation Mode :TX MID
EUT Pol. :E2 Plane
Test Date :2013-12-19
Temp./Humi. :24 deg_C / 59 RH
Engineer :Curry
Measurement Antenna Pol. :HORIZONTAL

Freq. MHz	Note F/H/E/S	ERP dBm	SG	Antenna	Cable	Limit	Margin
			Output Level dBm	Gain dBd	Loss dB	dBm	dB
44.55	S	-39.89	-25.47	-13.53	-0.90	-13.00	-26.89
68.80	S	-62.36	-54.27	-7.08	-1.00	-13.00	-49.36
105.66	S	-60.85	-57.89	-1.74	-1.22	-13.00	-47.85
309.36	S	-69.24	-71.08	3.73	-1.89	-13.00	-56.24
351.07	S	-70.02	-72.19	4.15	-1.98	-13.00	-57.02
418.97	S	-68.34	-69.92	3.71	-2.13	-13.00	-55.34
1673.20	H	-58.93	-57.95	3.47	-4.45	-13.00	-45.93
2509.80	H	-59.70	-57.93	3.72	-5.49	-13.00	-46.70
3346.40	H	---					
4183.00	H	---					
5019.60	H	---					
5856.20	H	---					
6692.80	H	---					
7529.40	H	---					
8366.00	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 :GSM 850
 ARFCN :CH 251
 Fundamental Frequency :848.8 MHz
 Operation Mode :TX HIGH
 EUT Pol. :E2 Plane

Test Date :2013-12-19
 Temp./Humi. :24 deg_C / 59 RH
 Engineer :Curry

Measurement Antenna Pol. :VERTICAL

Freq. MHz	Note F/H/E/S	ERP dBm	SG	Antenna	Cable	Limit	Margin
			Output Level dBm	Gain dBd	Loss dB	dBm	dB
45.52	S	-49.84	-35.57	-13.36	-0.92	-13.00	-36.84
90.14	S	-61.60	-59.85	-0.55	-1.20	-13.00	-48.60
105.66	S	-57.76	-54.80	-1.74	-1.22	-13.00	-44.76
194.90	S	-71.40	-72.77	2.87	-1.50	-13.00	-58.40
307.42	S	-69.77	-71.59	3.71	-1.89	-13.00	-56.77
676.02	S	-64.46	-65.65	3.91	-2.71	-13.00	-51.46
1697.60	H	-55.47	-54.39	3.40	-4.48	-13.00	-42.47
2546.40	H	-57.83	-56.08	3.79	-5.54	-13.00	-44.83
3395.20	H	---					
4244.00	H	---					
5092.80	H	---					
5941.60	H	---					
6790.40	H	---					
7639.20	H	---					
8488.00	H	-45.91	-46.22	10.79	-10.48	-13.00	-32.91

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

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 :GSM 850
ARFCN :CH 251
Fundamental Frequency :848.8 MHz
Operation Mode :TX HIGH
EUT Pol. :E2 Plane
Test Date :2013-12-19
Temp./Humi. :24 deg_C / 59 RH
Engineer :Curry
Measurement Antenna Pol. :HORIZONTAL

Freq. MHz	Note F/H/E/S	ERP dBm	SG	Antenna	Cable	Limit	Margin
			Output Level dBm	Gain dBd	Loss dB	dBm	dB
44.55	S	-49.50	-35.08	-13.53	-0.90	-13.00	-36.50
90.14	S	-62.82	-61.07	-0.55	-1.20	-13.00	-49.82
107.60	S	-59.49	-56.32	-1.94	-1.23	-13.00	-46.49
185.20	S	-70.61	-70.85	1.71	-1.48	-13.00	-57.61
307.42	S	-64.56	-66.37	3.71	-1.89	-13.00	-51.56
349.13	S	-66.45	-68.62	4.15	-1.98	-13.00	-53.45
1697.60	H	-56.64	-55.55	3.40	-4.48	-13.00	-43.64
2546.40	H	-46.47	-44.72	3.79	-5.54	-13.00	-33.47
3395.20	H	---					
4244.00	H	---					
5092.80	H	---					
5941.60	H	---					
6790.40	H	---					
7639.20	H	---					
8488.00	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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Radiated Spurious Emission Measurement Result: GSM 1900 Mode

Operation Band	:GSM 1900	Test Date	:2013-11-13
ARFCN	:CH 512	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:1850.2 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG	Antenna	Cable	Limit	Margin
			Output Level dBm	Gain dBi	Loss dB	dBm	dB
45.52	S	-54.95	-42.83	-11.21	-0.92	-13.00	-41.95
105.66	S	-65.88	-65.07	0.41	-1.22	-13.00	-52.88
307.42	S	-67.40	-71.37	5.86	-1.89	-13.00	-54.40
594.54	S	-66.82	-69.85	5.64	-2.61	-13.00	-53.82
871.96	S	-61.10	-63.85	5.93	-3.18	-13.00	-48.10
953.44	S	-62.71	-64.92	5.55	-3.34	-13.00	-49.71
3700.40	H	-54.53	-56.35	8.62	-6.80	-13.00	-41.53
5550.60	H	---					
7400.80	H	-46.74	-48.92	11.96	-9.78	-13.00	-33.74
9251.00	H	---					
11101.20	H	---					
12951.40	H	---					
14801.60	H	---					
16651.80	H	---					
18502.00	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 :GSM 1900
ARFCN :CH 512
Fundamental Frequency :1850.2 MHz
Operation Mode :TX LOW
EUT Pol. :E2 Plane
Test Date :2013-11-13
Temp./Humi. :24 deg_C / 59 RH
Engineer :Curry
Measurement Antenna Pol. :HORIZONTAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG	Antenna	Cable	Limit	Margin
			Output Level dBm	Gain dBi	Loss dB	dBm	dB
44.55	S	-42.67	-30.40	-11.38	-0.90	-13.00	-29.67
107.60	S	-62.74	-61.72	0.21	-1.23	-13.00	-49.74
190.05	S	-71.92	-75.14	4.70	-1.49	-13.00	-58.92
307.42	S	-67.01	-70.98	5.86	-1.89	-13.00	-54.01
649.83	S	-66.43	-69.84	6.09	-2.68	-13.00	-53.43
872.93	S	-62.14	-64.88	5.92	-3.18	-13.00	-49.14
3700.40	H	-56.84	-58.65	8.62	-6.80	-13.00	-43.84
5550.60	H	---					
7400.80	H	---					
9251.00	H	---					
11101.20	H	---					
12951.40	H	---					
14801.60	H	---					
16651.80	H	---					
18502.00	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 :GSM 1900 Test Date :2013-11-13
 ARFCN :CH 661 Temp./Humi. :24 deg_C / 59 RH
 Fundamental Frequency :1880.0 MHz Engineer :Curry
 Operation Mode :TX MID
 EUT Pol. :E2 Plane Measurement Antenna Pol. :VERTICAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG	Antenna	Cable	Limit	Margin
			Output Level dBm	Gain dBi	Loss dB	dBm	dB
46.49	S	-62.14	-50.18	-11.03	-0.93	-13.00	-49.14
107.60	S	-65.37	-64.35	0.21	-1.23	-13.00	-52.37
310.33	S	-67.17	-71.17	5.89	-1.89	-13.00	-54.17
602.30	S	-66.29	-69.28	5.61	-2.62	-13.00	-53.29
771.08	S	-63.74	-66.79	5.94	-2.89	-13.00	-50.74
946.65	S	-62.27	-64.72	5.78	-3.33	-13.00	-49.27
3760.00	H	-57.02	-58.91	8.74	-6.85	-13.00	-44.02
5640.00	H	---					
7520.00	H	-47.20	-49.45	12.12	-9.87	-13.00	-34.20
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 :GSM 1900
 ARFCN :CH 661
 Fundamental Frequency :1880.0 MHz
 Operation Mode :TX MID
 EUT Pol. :E2 Plane

Test Date :2013-11-13
 Temp./Humi. :24 deg_C / 59 RH
 Engineer :Curry

Measurement Antenna Pol. :HORIZONTAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG	Antenna	Cable	Limit	Margin
			Output Level dBm	Gain dBi	Loss dB	dBm	dB
45.52	S	-43.73	-31.60	-11.21	-0.92	-13.00	-30.73
106.63	S	-64.04	-63.12	0.31	-1.23	-13.00	-51.04
300.63	S	-66.70	-70.61	5.78	-1.87	-13.00	-53.70
338.46	S	-63.88	-68.12	6.19	-1.95	-13.00	-50.88
658.56	S	-66.97	-70.36	6.08	-2.69	-13.00	-53.97
873.90	S	-62.01	-64.74	5.92	-3.18	-13.00	-49.01
3760.00	H	-58.86	-60.75	8.74	-6.85	-13.00	-45.86
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 :GSM 1900
 ARFCN :CH 810
 Fundamental Frequency :1909.8 MHz
 Operation Mode :TX HIGH
 EUT Pol. :E2 Plane

Test Date :2013-11-13
 Temp./Humi. :24 deg_C / 59 RH
 Engineer :Curry

Measurement Antenna Pol. :VERTICAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG	Antenna	Cable	Limit	Margin
			Output Level dBm	Gain dBi	Loss dB	dBm	dB
44.55	S	-54.55	-42.27	-11.38	-0.90	-13.00	-41.55
107.60	S	-61.30	-60.28	0.21	-1.23	-13.00	-48.30
186.17	S	-69.82	-72.38	4.03	-1.48	-13.00	-56.82
338.46	S	-65.94	-70.17	6.19	-1.95	-13.00	-52.94
646.92	S	-63.50	-66.88	6.06	-2.68	-13.00	-50.50
872.93	S	-61.87	-64.62	5.92	-3.18	-13.00	-48.87
3819.60	H	-54.69	-56.64	8.85	-6.90	-13.00	-41.69
5729.40	H	---					
7639.20	H	-45.27	-47.54	12.21	-9.94	-13.00	-32.27
9549.00	H	---					
11458.80	H	---					
13368.60	H	---					
15278.40	H	---					
17188.20	H	---					
19098.00	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 :GSM 1900
ARFCN :CH 810
Fundamental Frequency :1909.8 MHz
Operation Mode :TX HIGH
EUT Pol. :E2 Plane
Test Date :2013-11-13
Temp./Humi. :24 deg_C / 59 RH
Engineer :Curry
Measurement Antenna Pol. :HORIZONTAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG	Antenna	Cable	Limit	Margin
			Output Level dBm	Gain dBi	Loss dB	dBm	dB
44.55	S	-55.47	-43.19	-11.38	-0.90	-13.00	-42.47
107.60	S	-65.32	-64.30	0.21	-1.23	-13.00	-52.32
307.42	S	-61.60	-65.57	5.86	-1.89	-13.00	-48.60
338.46	S	-61.82	-66.06	6.19	-1.95	-13.00	-48.82
656.62	S	-63.67	-67.06	6.08	-2.69	-13.00	-50.67
872.93	S	-61.73	-64.48	5.92	-3.18	-13.00	-48.73
3819.60	H	-54.54	-56.49	8.85	-6.90	-13.00	-41.54
5729.40	H	---					
7639.20	H	---					
9549.00	H	---					
11458.80	H	---					
13368.60	H	---					
15278.40	H	---					
17188.20	H	---					
19098.00	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: HSDPA II Mode

Operation Band	:HSDPA B2	Test Date	:2013-11-13
ARFCN	:CH 9262	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:1852.4 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG	Antenna	Cable	Limit	Margin
			Output Level dBm	Gain dBi	Loss dB	dBm	dB
45.52	S	-57.84	-45.71	-11.21	-0.92	-13.00	-44.84
105.66	S	-65.47	-64.66	0.41	-1.22	-13.00	-52.47
177.44	S	-71.06	-72.06	2.46	-1.46	-13.00	-58.06
308.39	S	-67.81	-71.79	5.87	-1.89	-13.00	-54.81
589.69	S	-66.72	-69.80	5.68	-2.59	-13.00	-53.72
871.96	S	-61.36	-64.11	5.93	-3.18	-13.00	-48.36
3704.80	H	-55.21	-57.04	8.63	-6.80	-13.00	-42.21
5557.20	H	---					
7409.60	H	---					
9262.00	H	---					
11114.40	H	---					
12966.80	H	---					
14819.20	H	---					
16671.60	H	---					
18524.00	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 :HSDPA B2
 ARFCN :CH 9262
 Fundamental Frequency :1852.4 MHz
 Operation Mode :TX LOW
 EUT Pol. :E2 Plane

Test Date :2013-11-13
 Temp./Humi. :24 deg_C / 59 RH
 Engineer :Curry
 Measurement Antenna Pol. :HORIZONTAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG	Antenna	Cable	Limit	Margin
			Output Level dBm	Gain dBi	Loss dB	dBm	dB
45.52	S	-46.16	-34.04	-11.21	-0.92	-13.00	-33.16
107.60	S	-65.60	-64.57	0.21	-1.23	-13.00	-52.60
311.30	S	-67.13	-71.14	5.90	-1.90	-13.00	-54.13
592.60	S	-68.60	-71.66	5.65	-2.60	-13.00	-55.60
800.18	S	-64.21	-67.35	6.09	-2.95	-13.00	-51.21
871.96	S	-61.23	-63.98	5.93	-3.18	-13.00	-48.23
3704.80	H	-55.93	-57.75	8.63	-6.80	-13.00	-42.93
5557.20	H	---					
7409.60	H	---					
9262.00	H	---					
11114.40	H	---					
12966.80	H	---					
14819.20	H	---					
16671.60	H	---					
18524.00	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 :HSDPA B2
 ARFCN :CH 9400
 Fundamental Frequency :1880 MHz
 Operation Mode :TX MID
 EUT Pol. :E2 Plane

Test Date :2013-11-13
 Temp./Humi. :24 deg_C / 59 RH
 Engineer :Curry

Measurement Antenna Pol. :VERTICAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG	Antenna	Cable	Limit	Margin
			Output Level dBm	Gain dBi	Loss dB	dBm	dB
45.52	S	-57.97	-45.84	-11.21	-0.92	-13.00	-44.97
105.66	S	-60.81	-60.00	0.41	-1.22	-13.00	-47.81
199.75	S	-69.17	-73.00	5.33	-1.51	-13.00	-56.17
305.48	S	-67.60	-71.55	5.83	-1.88	-13.00	-54.60
640.13	S	-64.89	-68.21	5.99	-2.67	-13.00	-51.89
768.17	S	-62.78	-65.82	5.93	-2.89	-13.00	-49.78
3760.00	H	-57.34	-59.22	8.74	-6.85	-13.00	-44.34
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 :HSDPA B2
 ARFCN :CH 9400
 Fundamental Frequency :1880 MHz
 Operation Mode :TX MID
 EUT Pol. :E2 Plane

Test Date :2013-11-13
 Temp./Humi. :24 deg_C / 59 RH
 Engineer :Curry

Measurement Antenna Pol. :HORIZONTAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG	Antenna	Cable	Limit	Margin
			Output Level dBm	Gain dBi	Loss dB	dBm	dB
44.55	S	-46.57	-34.30	-11.38	-0.90	-13.00	-33.57
106.63	S	-60.93	-60.01	0.31	-1.23	-13.00	-47.93
244.37	S	-73.80	-77.67	5.56	-1.69	-13.00	-60.80
307.42	S	-67.47	-71.43	5.86	-1.89	-13.00	-54.47
639.16	S	-67.09	-70.41	5.98	-2.67	-13.00	-54.09
873.90	S	-61.24	-63.97	5.92	-3.18	-13.00	-48.24
3760.00	H	-58.77	-60.66	8.74	-6.85	-13.00	-45.77
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 :HSDPA B2
 ARFCN :CH 9538
 Fundamental Frequency :1907.6 MHz
 Operation Mode :TX HIGH
 EUT Pol. :E2 Plane

Test Date :2013-11-13
 Temp./Humi. :24 deg_C / 59 RH
 Engineer :Curry

Measurement Antenna Pol. :VERTICAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG	Antenna	Cable	Limit	Margin
			Output Level dBm	Gain dBi	Loss dB	dBm	dB
45.52	S	-57.36	-45.23	-11.21	-0.92	-13.00	-44.36
94.99	S	-62.67	-62.78	1.31	-1.20	-13.00	-49.67
188.11	S	-71.04	-73.93	4.37	-1.48	-13.00	-58.04
307.42	S	-68.25	-72.22	5.86	-1.89	-13.00	-55.25
645.95	S	-64.06	-67.43	6.05	-2.68	-13.00	-51.06
871.96	S	-61.65	-64.40	5.93	-3.18	-13.00	-48.65
3815.20	H	-55.11	-57.06	8.85	-6.90	-13.00	-42.11
5722.80	H	---					
7630.40	H	-47.49	-49.76	12.21	-9.94	-13.00	-34.49
9538.00	H	---					
11445.60	H	---					
13353.20	H	---					
15260.80	H	---					
17168.40	H	---					
19076.00	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 :HSDPA B2
 ARFCN :CH 9538
 Fundamental Frequency :1907.6 MHz
 Operation Mode :TX HIGH
 EUT Pol. :E2 Plane

Test Date :2013-11-13
 Temp./Humi. :24 deg_C / 59 RH
 Engineer :Curry
 Measurement Antenna Pol. :HORIZONTAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG	Antenna	Cable	Limit	Margin
			Output Level dBm	Gain dBi	Loss dB	dBm	dB
144.46	S	-72.85	-71.07	-0.42	-1.36	-13.00	-59.85
300.63	S	-63.16	-67.06	5.78	-1.87	-13.00	-50.16
565.44	S	-69.54	-72.90	5.90	-2.53	-13.00	-56.54
727.43	S	-64.44	-67.56	5.92	-2.80	-13.00	-51.44
807.94	S	-63.33	-66.43	6.08	-2.98	-13.00	-50.33
871.96	S	-61.43	-64.18	5.93	-3.18	-13.00	-48.43
3815.20	H	-55.97	-57.92	8.85	-6.90	-13.00	-42.97
5722.80	H	---					
7630.40	H	---					
9538.00	H	---					
11445.60	H	---					
13353.20	H	---					
15260.80	H	---					
17168.40	H	---					
19076.00	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: HSUPA V Mode

Operation Band	:HSUPA B5	Test Date	:2013-11-13
ARFCN	:CH 4132	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:826.4 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

Freq. MHz	Note F/H/E/S	ERP dBm	SG	Antenna	Cable	Limit	Margin
			Output Level dBm	Gain dBd	Loss dB	dBm	dB
44.55	S	-54.92	-40.49	-13.53	-0.90	-13.00	-41.92
89.17	S	-62.49	-60.51	-0.79	-1.18	-13.00	-49.49
106.63	S	-60.18	-57.11	-1.84	-1.23	-13.00	-47.18
307.42	S	-70.92	-72.74	3.71	-1.89	-13.00	-57.92
468.44	S	-72.64	-73.99	3.62	-2.27	-13.00	-59.64
645.95	S	-65.61	-66.83	3.90	-2.68	-13.00	-52.61
1652.80	H	-62.29	-61.40	3.53	-4.42	-13.00	-49.29
2479.20	H	-54.77	-52.97	3.66	-5.46	-13.00	-41.77
3305.60	H	---					
4132.00	H	---					
4958.40	H	---					
5784.80	H	---					
6611.20	H	---					
7437.60	H	---					
8264.00	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 :HSUPA B5
 ARFCN :CH 4132
 Fundamental Frequency :826.4 MHz
 Operation Mode :TX LOW
 EUT Pol. :E2 Plane

Test Date :2013-11-13
 Temp./Humi. :24 deg_C / 59 RH
 Engineer :Curry

Measurement Antenna Pol. :HORIZONTAL

Freq. MHz	Note F/H/E/S	ERP dBm	SG	Antenna	Cable	Limit	Margin
			Output Level dBm	Gain dBd	Loss dB	dBm	dB
44.55	S	-41.93	-27.51	-13.53	-0.90	-13.00	-28.93
68.80	S	-64.52	-56.44	-7.08	-1.00	-13.00	-51.52
106.63	S	-61.44	-58.37	-1.84	-1.23	-13.00	-48.44
307.42	S	-70.43	-72.25	3.71	-1.89	-13.00	-57.43
351.07	S	-71.77	-73.94	4.15	-1.98	-13.00	-58.77
717.73	S	-68.81	-69.84	3.81	-2.78	-13.00	-55.81
1652.80	H	-61.17	-60.28	3.53	-4.42	-13.00	-48.17
2479.20	H	---					
3305.60	H	---					
4132.00	H	---					
4958.40	H	---					
5784.80	H	---					
6611.20	H	---					
7437.60	H	---					
8264.00	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 :HSUPA B5
 ARFCN :CH 4183
 Fundamental Frequency :836.6 MHz
 Operation Mode :TX MID
 EUT Pol. :E2 Plane

Test Date :2013-11-13
 Temp./Humi. :24 deg_C / 59 RH
 Engineer :Curry

Measurement Antenna Pol. :VERTICAL

Freq. MHz	Note F/H/E/S	ERP dBm	SG	Antenna	Cable	Limit	Margin
			Output Level dBm	Gain dBd	Loss dB	dBm	dB
44.55	S	-52.73	-38.30	-13.53	-0.90	-13.00	-39.73
89.17	S	-61.15	-59.17	-0.79	-1.18	-13.00	-48.15
105.66	S	-60.91	-57.94	-1.74	-1.22	-13.00	-47.91
300.63	S	-69.45	-71.21	3.63	-1.87	-13.00	-56.45
521.79	S	-70.20	-71.60	3.82	-2.41	-13.00	-57.20
749.74	S	-65.20	-66.03	3.68	-2.85	-13.00	-52.20
1673.20	H	-62.93	-61.95	3.47	-4.45	-13.00	-49.93
2509.80	H	-54.81	-53.03	3.72	-5.49	-13.00	-41.81
3346.40	H	---					
4183.00	H	---					
5019.60	H	---					
5856.20	H	---					
6692.80	H	---					
7529.40	H	---					
8366.00	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 :HSUPA B5
 ARFCN :CH 4183
 Fundamental Frequency :836.6 MHz
 Operation Mode :TX MID
 EUT Pol. :E2 Plane

Test Date :2013-11-13
 Temp./Humi. :24 deg_C / 59 RH
 Engineer :Curry

Measurement Antenna Pol. :HORIZONTAL

Freq. MHz	Note F/H/E/S	ERP dBm	SG	Antenna	Cable	Limit	Margin
			Output Level dBm	Gain dBd	Loss dB	dBm	dB
44.55	S	-41.54	-27.11	-13.53	-0.90	-13.00	-28.54
68.80	S	-62.71	-54.62	-7.08	-1.00	-13.00	-49.71
106.63	S	-60.29	-57.22	-1.84	-1.23	-13.00	-47.29
308.39	S	-70.25	-72.08	3.72	-1.89	-13.00	-57.25
516.94	S	-71.94	-73.35	3.81	-2.40	-13.00	-58.94
708.03	S	-69.11	-70.20	3.85	-2.76	-13.00	-56.11
1673.20	H	-60.71	-59.73	3.47	-4.45	-13.00	-47.71
2509.80	H	-53.37	-51.60	3.72	-5.49	-13.00	-40.37
3346.40	H	---					
4183.00	H	---					
5019.60	H	---					
5856.20	H	---					
6692.80	H	---					
7529.40	H	---					
8366.00	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 :HSUPA B5
ARFCN :CH 4233
Fundamental Frequency :846.6 MHz
Operation Mode :TX HIGH
EUT Pol. :E2 Plane
Test Date :2013-11-13
Temp./Humi. :24 deg_C / 59 RH
Engineer :Curry
Measurement Antenna Pol. :VERTICAL

Freq. MHz	Note F/H/E/S	ERP dBm	SG	Antenna	Cable	Limit	Margin
			Output Level dBm	Gain dBd	Loss dB	dBm	dB
44.55	S	-53.52	-39.10	-13.53	-0.90	-13.00	-40.52
88.20	S	-62.38	-60.12	-1.09	-1.17	-13.00	-49.38
107.60	S	-62.08	-58.91	-1.94	-1.23	-13.00	-49.08
308.39	S	-70.31	-72.14	3.72	-1.89	-13.00	-57.31
478.14	S	-72.21	-73.58	3.67	-2.29	-13.00	-59.21
697.36	S	-66.02	-67.17	3.88	-2.74	-13.00	-53.02
1693.20	H	-61.20	-60.14	3.41	-4.48	-13.00	-48.20
2539.80	H	-48.55	-46.79	3.78	-5.53	-13.00	-35.55
3386.40	H	---					
4233.00	H	---					
5079.60	H	---					
5926.20	H	---					
6772.80	H	---					
7619.40	H	---					
8466.00	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 :HSUPA B5
ARFCN :CH 4233
Fundamental Frequency :846.6 MHz
Operation Mode :TX HIGH
EUT Pol. :E2 Plane
Test Date :2013-11-13
Temp./Humi. :24 deg_C / 59 RH
Engineer :Curry
Measurement Antenna Pol. :HORIZONTAL

Freq. MHz	Note F/H/E/S	ERP dBm	SG	Antenna	Cable	Limit	Margin
			Output Level dBm	Gain dBd	Loss dB	dBm	dB
45.52	S	-50.92	-36.65	-13.36	-0.92	-13.00	-37.92
89.17	S	-58.41	-56.43	-0.79	-1.18	-13.00	-45.41
106.63	S	-60.25	-57.18	-1.84	-1.23	-13.00	-47.25
307.42	S	-64.79	-66.61	3.71	-1.89	-13.00	-51.79
515.00	S	-71.59	-73.00	3.80	-2.39	-13.00	-58.59
647.89	S	-65.61	-66.85	3.92	-2.68	-13.00	-52.61
1693.20	H	-57.33	-56.26	3.41	-4.48	-13.00	-44.33
2539.80	H	-50.33	-48.58	3.78	-5.53	-13.00	-37.33
3386.40	H	---					
4233.00	H	---					
5079.60	H	---					
5926.20	H	---					
6772.80	H	---					
7619.40	H	---					
8466.00	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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Radiated Spurious Emission Measurement Result: 1.4MHz BW LTE-Band 2(The Worst Case)

Operation Band	:LTE B2	Test Date	:2013-11-13
ARFCN	:CH 18607 16QAM BW 1.4 RB 1 5	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:1850.7 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG	Antenna	Cable	Limit	Margin
			Output Level dBm	Gain dBi	Loss dB	dBm	dB
96.93	S	-71.76	-71.76	1.20	-1.20	-13.00	-58.76
194.90	S	-71.61	-75.14	5.02	-1.50	-13.00	-58.61
243.40	S	-68.42	-72.29	5.55	-1.68	-13.00	-55.42
299.66	S	-66.95	-70.84	5.76	-1.87	-13.00	-53.95
471.35	S	-70.27	-73.78	5.79	-2.28	-13.00	-57.27
648.86	S	-64.09	-67.49	6.08	-2.68	-13.00	-51.09
3701.40	H	-49.82	-51.63	8.62	-6.80	-13.00	-36.82
5552.10	H	---					
7402.80	H	---					
9253.50	H	---					
11104.20	H	---					
12954.90	H	---					
14805.60	H	---					
16656.30	H	---					
18507.00	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 B2	Test Date	:2013-11-13
ARFCN	:CH 18607	Temp./Humi.	:24 deg_C / 59 RH
	16QAM BW 1.4 RB 1 5	Engineer	:Curry
Fundamental Frequency	:1850.7 MHz		
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG	Antenna	Cable	Limit	Margin
			Output Level dBm	Gain dBi	Loss dB	dBm	dB
37.76	S	-63.30	-50.08	-12.41	-0.80	-13.00	-50.30
307.42	S	-66.16	-70.13	5.86	-1.89	-13.00	-53.16
434.49	S	-70.05	-73.65	5.77	-2.17	-13.00	-57.05
522.76	S	-69.27	-72.82	5.97	-2.42	-13.00	-56.27
606.18	S	-68.74	-71.77	5.65	-2.63	-13.00	-55.74
658.56	S	-67.66	-71.04	6.08	-2.69	-13.00	-54.66
3701.40	H	-59.66	-61.48	8.62	-6.80	-13.00	-46.66
5552.10	H	---					
7402.80	H	---					
9253.50	H	---					
11104.20	H	---					
12954.90	H	---					
14805.60	H	---					
16656.30	H	---					
18507.00	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 B2 Test Date :2013-11-13
ARFCN :CH 18900 Temp./Humi. :24 deg_C / 59 RH
16QAM BW 1.4 RB 1 5
Fundamental Frequency :1880 MHz Engineer :Curry
Operation Mode :TX MID
EUT Pol. :E2 Plane Measurement Antenna Pol. :VERTICAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit	Margin
90.14	S	-70.60	-71.00	1.60	-1.20	-13.00	-57.60
250.19	S	-67.44	-71.32	5.59	-1.71	-13.00	-54.44
302.57	S	-67.16	-71.08	5.80	-1.88	-13.00	-54.16
349.13	S	-68.89	-73.21	6.30	-1.98	-13.00	-55.89
524.70	S	-69.08	-72.63	5.98	-2.42	-13.00	-56.08
642.07	S	-63.69	-67.03	6.01	-2.67	-13.00	-50.69
3760.00	H	-54.18	-56.06	8.74	-6.85	-13.00	-41.18
5640.00	H	---					
7520.00	H	---					
9400.00	H	---					
11280.00	H	---					
13160.00	H	---					
15040.00	H	---					
16920.00	H	---					
18800.00	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 B2	Test Date	:2013-11-13
ARFCN	:CH 18900 16QAM BW 1.4 RB 1 5	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:1880 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG	Antenna	Cable	Limit	Margin
			Output Level dBm	Gain dBi	Loss dB	dBm	dB
36.79	S	-62.34	-49.00	-12.54	-0.80	-13.00	-49.34
307.42	S	-65.20	-69.17	5.86	-1.89	-13.00	-52.20
351.07	S	-67.14	-71.47	6.30	-1.98	-13.00	-54.14
430.61	S	-69.65	-73.28	5.79	-2.16	-13.00	-56.65
652.74	S	-68.10	-71.50	6.09	-2.69	-13.00	-55.10
758.47	S	-66.64	-69.65	5.88	-2.87	-13.00	-53.64
3760.00	H	-57.62	-59.50	8.74	-6.85	-13.00	-44.62
5640.00	H	---					
7520.00	H	---					
9400.00	H	---					
11280.00	H	---					
13160.00	H	---					
15040.00	H	---					
16920.00	H	---					
18800.00	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 B2	Test Date	:2013-11-13
ARFCN	:CH 19193	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	16QAM BW 1.4 RB 1 5	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG	Antenna	Cable	Limit	Margin
			Output Level dBm	Gain dBi	Loss dB	dBm	dB
89.17	S	-70.91	-71.09	1.36	-1.18	-13.00	-57.91
252.13	S	-68.00	-71.90	5.62	-1.72	-13.00	-55.00
308.39	S	-67.48	-71.46	5.87	-1.89	-13.00	-54.48
350.10	S	-68.24	-72.57	6.31	-1.98	-13.00	-55.24
872.93	S	-55.17	-57.91	5.92	-3.18	-13.00	-42.17
896.21	S	-55.67	-58.25	5.83	-3.25	-13.00	-42.67
3818.60	H	-47.57	-49.52	8.85	-6.90	-13.00	-34.57
5727.90	H	---					
7637.20	H	---					
9546.50	H	---					
11455.80	H	---					
13365.10	H	---					
15274.40	H	---					
17183.70	H	---					
19093.00	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 B2 Test Date :2013-11-13
ARFCN :CH 19193 Temp./Humi. :24 deg_C / 59 RH
16QAM BW 1.4 RB 1 5
Fundamental Frequency :1909.3 MHz Engineer :Curry
Operation Mode :TX HIGH
EUT Pol. :E2 Plane Measurement Antenna Pol. :HORIZONTAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit	Margin
36.79	S	-60.83	-47.49	-12.54	-0.80	-13.00	-47.83
310.33	S	-65.29	-69.29	5.89	-1.89	-13.00	-52.29
351.07	S	-68.60	-72.93	6.30	-1.98	-13.00	-55.60
456.80	S	-69.70	-73.18	5.72	-2.24	-13.00	-56.70
592.60	S	-68.91	-71.96	5.65	-2.60	-13.00	-55.91
683.78	S	-67.65	-70.97	6.05	-2.72	-13.00	-54.65
3818.60	H	-56.61	-58.56	8.85	-6.90	-13.00	-43.61
5727.90	H	---					
7637.20	H	---					
9546.50	H	---					
11455.80	H	---					
13365.10	H	---					
15274.40	H	---					
17183.70	H	---					
19093.00	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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Radiated Spurious Emission Measurement Result: 1.4MHz BW LTE-Band 5(The Worst Case)

Operation Band	:LTE B5	Test Date	:2013-11-13
ARFCN	:CH 20407	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	16QAM BW 1.4 RB 1 5	Engineer	:Allen
Operation Mode	:TX LOW	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:E2 Plane		

Freq. MHz	Note F/H/E/S	ERP dBm	SG	Antenna	Cable	Limit	Margin
			Output Level dBm	Gain dBd	Loss dB	dBm	dB
97.90	S	-73.13	-70.92	-1.00	-1.20	-13.00	-60.13
246.31	S	-70.57	-72.29	3.42	-1.69	-13.00	-57.57
307.42	S	-70.43	-72.25	3.71	-1.89	-13.00	-57.43
533.43	S	-71.23	-72.63	3.85	-2.45	-13.00	-58.23
651.77	S	-66.33	-67.58	3.94	-2.68	-13.00	-53.33
690.57	S	-63.14	-64.30	3.89	-2.73	-13.00	-50.14
1649.40	H	-61.01	-60.13	3.54	-4.42	-13.00	-48.01
2474.10	H	---					
3298.80	H	---					
4123.50	H	---					
4948.20	H	---					
5772.90	H	---					
6597.60	H	---					
7422.30	H	---					
8247.00	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 B5	Test Date	:2013-11-13
ARFCN	:CH 20407	Temp./Humi.	:24 deg_C / 59 RH
	16QAM BW 1.4 RB 1 5	Engineer	:Allen
Fundamental Frequency	:824.7 MHz		
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq. MHz	Note F/H/E/S	ERP dBm	SG	Antenna	Cable	Limit	Margin
			Output Level dBm	Gain dBd	Loss dB	dBm	dB
35.82	S	-64.84	-49.21	-14.83	-0.80	-13.00	-51.84
310.33	S	-68.61	-70.45	3.74	-1.89	-13.00	-55.61
419.94	S	-72.35	-73.93	3.70	-2.13	-13.00	-59.35
519.85	S	-71.56	-72.97	3.81	-2.41	-13.00	-58.56
648.86	S	-69.58	-70.83	3.93	-2.68	-13.00	-56.58
743.92	S	-68.94	-69.81	3.70	-2.84	-13.00	-55.94
1649.40	H	-64.60	-63.72	3.54	-4.42	-13.00	-51.60
2474.10	H	---					
3298.80	H	---					
4123.50	H	---					
4948.20	H	---					
5772.90	H	---					
6597.60	H	---					
7422.30	H	---					
8247.00	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 B5	Test Date	:2013-11-13
ARFCN	:CH 20525	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	16QAM BW 1.4 RB 1 5	Engineer	:Allen
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

Freq. MHz	Note F/H/E/S	ERP dBm	SG	Antenna	Cable	Limit	Margin
			Output Level dBm	Gain dBd	Loss dB	dBm	dB
100.81	S	-73.02	-70.61	-1.21	-1.20	-13.00	-60.02
243.40	S	-70.64	-72.36	3.40	-1.68	-13.00	-57.64
307.42	S	-69.94	-71.76	3.71	-1.89	-13.00	-56.94
554.77	S	-70.79	-72.13	3.85	-2.50	-13.00	-57.79
645.95	S	-66.35	-67.57	3.90	-2.68	-13.00	-53.35
680.87	S	-64.81	-65.99	3.90	-2.72	-13.00	-51.81
1673.00	H	-60.99	-60.01	3.47	-4.45	-13.00	-47.99
2509.50	H	---					
3346.00	H	---					
4182.50	H	---					
5019.00	H	---					
5855.50	H	---					
6692.00	H	---					
7528.50	H	---					
8365.00	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 B5 Test Date :2013-11-13
ARFCN :CH 20525 Temp./Humi. :24 deg_C / 59 RH
16QAM BW 1.4 RB 1 5
Fundamental Frequency :836.5 MHz Engineer :Allen
Operation Mode :TX MID
EUT Pol. :E2 Plane Measurement Antenna Pol. :HORIZONTAL

Freq. MHz	Note F/H/E/S	ERP dBm	SG	Antenna	Cable	Limit	Margin
			Output Level dBm	Gain dBd	Loss dB	dBm	dB
36.79	S	-63.46	-47.96	-14.69	-0.80	-13.00	-50.46
307.42	S	-68.91	-70.73	3.71	-1.89	-13.00	-55.91
316.15	S	-68.96	-70.86	3.80	-1.91	-13.00	-55.96
351.07	S	-71.41	-73.58	4.15	-1.98	-13.00	-58.41
579.99	S	-70.90	-71.94	3.62	-2.57	-13.00	-57.90
651.77	S	-69.75	-71.00	3.94	-2.68	-13.00	-56.75
1673.00	H	-65.07	-64.09	3.47	-4.45	-13.00	-52.07
2509.50	H	---					
3346.00	H	---					
4182.50	H	---					
5019.00	H	---					
5855.50	H	---					
6692.00	H	---					
7528.50	H	---					
8365.00	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 B5
 ARFCN :CH 20643
 16QAM BW 1.4 RB 1 5
 Fundamental Frequency :848.3 MHz
 Operation Mode :TX HIGH
 EUT Pol. :E2 Plane

Test Date :2013-11-13
 Temp./Humi. :24 deg_C / 59 RH
 Engineer :Allen
 Measurement Antenna Pol. :VERTICAL

Freq. MHz	Note F/H/E/S	ERP dBm	SG	Antenna	Cable	Limit	Margin
			Output Level dBm	Gain dBd	Loss dB	dBm	dB
96.93	S	-73.73	-71.58	-0.95	-1.20	-13.00	-60.73
242.43	S	-70.37	-72.08	3.39	-1.68	-13.00	-57.37
299.66	S	-69.65	-71.39	3.61	-1.87	-13.00	-56.65
422.85	S	-72.47	-74.02	3.69	-2.14	-13.00	-59.47
632.37	S	-67.86	-68.97	3.77	-2.66	-13.00	-54.86
710.94	S	-65.71	-66.78	3.84	-2.76	-13.00	-52.71
1696.60	H	-64.46	-63.38	3.40	-4.48	-13.00	-51.46
2544.90	H	---					
3393.20	H	---					
4241.50	H	---					
5089.80	H	---					
5938.10	H	---					
6786.40	H	---					
7634.70	H	---					
8483.00	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 B5 Test Date :2013-11-13
ARFCN :CH 20643 Temp./Humi. :24 deg_C / 59 RH
16QAM BW 1.4 RB 1 5
Fundamental Frequency :848.3 MHz Engineer :Allen
Operation Mode :TX HIGH
EUT Pol. :E2 Plane Measurement Antenna Pol. :HORIZONTAL

Freq. MHz	Note F/H/E/S	ERP dBm	SG	Antenna	Cable	Limit	Margin
			Output Level dBm	Gain dBd	Loss dB	dBm	dB
36.79	S	-64.93	-49.44	-14.69	-0.80	-13.00	-51.93
300.63	S	-69.30	-71.05	3.63	-1.87	-13.00	-56.30
433.52	S	-72.10	-73.55	3.63	-2.17	-13.00	-59.10
513.06	S	-71.40	-72.81	3.80	-2.39	-13.00	-58.40
656.62	S	-69.51	-70.75	3.93	-2.69	-13.00	-56.51
709.97	S	-69.67	-70.74	3.84	-2.76	-13.00	-56.67
1696.60	H	-65.54	-64.46	3.40	-4.48	-13.00	-52.54
2544.90	H	---					
3393.20	H	---					
4241.50	H	---					
5089.80	H	---					
5938.10	H	---					
6786.40	H	---					
7634.70	H	---					
8483.00	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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Radiated Spurious Emission Measurement Result: 15MHz BW LTE-Band 4(The Worst Case)

Operation Band :LTE B4 Test Date :2013-11-13
ARFCN :CH 20025 Temp./Humi. :24 deg_C / 59 RH
QPSK BW 15 RB 10
Fundamental Frequency :1717.5 MHz Engineer :Allen
Operation Mode :TX LOW
EUT Pol. :E2 Plane Measurement Antenna Pol. :VERTICAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit	Safe
							Margin
89.17	S	-72.15	-72.32	1.36	-1.18	-13.00	-59.15
242.43	S	-67.77	-71.63	5.54	-1.68	-13.00	-54.77
334.58	S	-69.51	-73.71	6.15	-1.95	-13.00	-56.51
644.01	S	-62.87	-66.22	6.03	-2.68	-13.00	-49.87
757.50	S	-63.29	-66.30	5.87	-2.86	-13.00	-50.29
878.75	S	-58.56	-61.26	5.90	-3.20	-13.00	-45.56
3435.00	H	-36.60	-38.03	7.98	-6.54	-13.00	-23.60
5152.50	H	---					
6870.00	H	-43.83	-45.69	11.21	-9.35	-13.00	-30.83
8587.50	H	---					
10305.00	H	---					
12022.50	H	---					
13740.00	H	---					
15457.50	H	---					
17175.00	H	---					

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

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 B4
ARFCN :CH 20025
Fundamental Frequency :QPSK BW 15 RB 10
Operation Mode :1717.5 MHz
EUT Pol. :TX LOW
:E2 Plane

Test Date :2013-11-13
Temp./Humi. :24 deg_C / 59 RH
Engineer :Allen
Measurement Antenna Pol. :HORIZONTAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm				
36.79	S	-62.30	-48.96	-12.54	-0.80	-13.00	-49.30
145.43	S	-73.82	-72.07	-0.37	-1.37	-13.00	-60.82
314.21	S	-67.55	-71.58	5.93	-1.90	-13.00	-54.55
536.34	S	-69.24	-72.79	6.01	-2.45	-13.00	-56.24
768.17	S	-65.06	-68.10	5.93	-2.89	-13.00	-52.06
878.75	S	-57.86	-60.56	5.90	-3.20	-13.00	-44.86
3435.00	H	-45.70	-47.14	7.98	-6.54	-13.00	-32.70
5152.50	H	---					
6870.00	H	---					
8587.50	H	---					
10305.00	H	---					
12022.50	H	---					
13740.00	H	---					
15457.50	H	---					
17175.00	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 B4
 ARFCN :CH 20175
 QPSK BW 15 RB 1 0
 Fundamental Frequency :1732.5 MHz
 Operation Mode :TX MID
 EUT Pol. :E2 Plane

Test Date :2013-11-13
 Temp./Humi. :24 deg_C / 59 RH
 Engineer :Allen
 Measurement Antenna Pol. :VERTICAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm				
100.81	S	-70.86	-70.60	0.94	-1.20	-13.00	-57.86
240.49	S	-66.79	-70.65	5.53	-1.67	-13.00	-53.79
515.00	S	-68.85	-72.41	5.95	-2.39	-13.00	-55.85
696.39	S	-64.06	-67.36	6.03	-2.74	-13.00	-51.06
784.74	S	-63.50	-66.59	6.01	-2.92	-13.00	-50.50
878.75	S	-57.87	-60.58	5.90	-3.20	-13.00	-44.87
3465.00	H	-43.05	-44.54	8.06	-6.57	-13.00	-30.05
5197.50	H	---					
6930.00	H	-46.61	-48.49	11.28	-9.40	-13.00	-33.61
8662.50	H	---					
10395.00	H	---					
12127.50	H	---					
13860.00	H	---					
15592.50	H	---					
17325.00	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 B4
ARFCN :CH 20175
Fundamental Frequency :QPSK BW 15 RB 10
Operation Mode :1732.5 MHz
EUT Pol. :TX MID
E2 Plane

Test Date :2013-11-13
Temp./Humi. :24 deg_C / 59 RH
Engineer :Allen
Measurement Antenna Pol. :HORIZONTAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG	Antenna	Cable	Limit	Margin
			Output Level dBm	Gain dBi	Loss dB	dBm	dB
36.79	S	-61.96	-48.62	-12.54	-0.80	-13.00	-48.96
312.27	S	-66.75	-70.76	5.91	-1.90	-13.00	-53.75
521.79	S	-69.14	-72.69	5.97	-2.41	-13.00	-56.14
741.98	S	-66.97	-70.00	5.86	-2.83	-13.00	-53.97
878.75	S	-58.30	-61.00	5.90	-3.20	-13.00	-45.30
957.32	S	-62.11	-64.05	5.29	-3.35	-13.00	-49.11
3465.00	H	-51.96	-53.45	8.06	-6.57	-13.00	-38.96
5197.50	H	---					
6930.00	H	---					
8662.50	H	---					
10395.00	H	---					
12127.50	H	---					
13860.00	H	---					
15592.50	H	---					
17325.00	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 B4
 ARFCN :CH 20325
 QPSK BW 15 RB 10
 Fundamental Frequency :1747.5 MHz
 Operation Mode :TX HIGH
 EUT Pol. :E2 Plane

Test Date :2013-11-13
 Temp./Humi. :24 deg_C / 59 RH
 Engineer :Allen
 Measurement Antenna Pol. :VERTICAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm				
100.81	S	-71.83	-71.57	0.94	-1.20	-13.00	-58.83
249.22	S	-66.91	-70.79	5.59	-1.71	-13.00	-53.91
473.29	S	-69.94	-73.45	5.80	-2.28	-13.00	-56.94
643.04	S	-64.54	-67.89	6.02	-2.67	-13.00	-51.54
772.05	S	-62.54	-65.59	5.95	-2.89	-13.00	-49.54
878.75	S	-59.58	-62.28	5.90	-3.20	-13.00	-46.58
3495.00	H	-42.79	-44.33	8.14	-6.60	-13.00	-29.79
5242.50	H	---					
6990.00	H	-45.81	-47.72	11.35	-9.44	-13.00	-32.81
6990.00	H	---					
8737.50	H	---					
10485.00	H	---					
12232.50	H	---					
13980.00	H	---					
15727.50	H	---					
17475.00	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 B4
ARFCN :CH 20325
Fundamental Frequency :QPSK BW 15 RB 10
Operation Mode :1747.5 MHz
EUT Pol. :TX HIGH
E2 Plane

Test Date :2013-11-13
Temp./Humi. :24 deg_C / 59 RH
Engineer :Allen
Measurement Antenna Pol. :HORIZONTAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG	Antenna	Cable	Limit	Margin
			Output Level dBm	Gain dBi	Loss dB	dBm	dB
43.58	S	-63.63	-51.22	-11.53	-0.88	-13.00	-50.63
147.37	S	-74.47	-72.82	-0.28	-1.37	-13.00	-61.47
310.33	S	-67.39	-71.39	5.89	-1.89	-13.00	-54.39
580.96	S	-68.76	-71.95	5.76	-2.57	-13.00	-55.76
772.05	S	-65.61	-68.66	5.95	-2.89	-13.00	-52.61
872.93	S	-58.88	-61.63	5.92	-3.18	-13.00	-45.88
3495.00	H	-54.29	-55.84	8.14	-6.60	-13.00	-41.29
5242.50	H	---					
6990.00	H	---					
8737.50	H	---					
10485.00	H	---					
12232.50	H	---					
13980.00	H	---					
15727.50	H	---					
17475.00	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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Radiated Spurious Emission Measurement Result: 5MHz BW LTE-Band 7(The Worst Case)

Operation Band :LTE B7 Test Date :2013-11-13
ARFCN :CH 20775 Temp./Humi. :24 deg_C / 59 RH
16QAM BW 5 RB 1 24
Fundamental Frequency :2502.5 MHz Engineer :Allen
Operation Mode :TX LOW
EUT Pol. :E2 Plane Measurement Antenna Pol. :VERTICAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit	Margin
						Limit dBm	Margin dB
99.84	S	-70.81	-70.65	1.04	-1.20	-25.00	-45.81
238.55	S	-69.17	-73.04	5.53	-1.67	-25.00	-44.17
318.09	S	-68.47	-72.53	5.98	-1.91	-25.00	-43.47
644.98	S	-64.24	-67.61	6.04	-2.68	-25.00	-39.24
872.93	S	-55.29	-58.03	5.92	-3.18	-25.00	-30.29
942.77	S	-60.76	-63.22	5.78	-3.33	-25.00	-35.76
5005.00	H	-26.96	-28.95	9.91	-7.92	-25.00	-1.96
7507.50	H	-42.41	-44.65	12.11	-9.87	-25.00	-17.41
10010.00	H	-70.81	-70.65	1.04	-1.20	-25.00	-45.81
12512.50	H	---					
15015.00	H	---					
17517.50	H	---					
20020.00	H	---					
22522.50	H	---					
25025.00	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 B7	Test Date	:2013-11-13
ARFCN	:CH 20775 16QAM BW 5 RB 1 24	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:2502.5 MHz	Engineer	:Allen
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG	Antenna	Cable	Limit	Margin
			Output Level dBm	Gain dBi	Loss dB	dBm	dB
36.79	S	-62.96	-49.62	-12.54	-0.80	-25.00	-37.96
351.07	S	-67.06	-71.38	6.30	-1.98	-25.00	-42.06
458.74	S	-68.55	-72.03	5.73	-2.24	-25.00	-43.55
587.75	S	-63.32	-66.42	5.70	-2.59	-25.00	-38.32
878.75	S	-54.43	-57.13	5.90	-3.20	-25.00	-29.43
951.50	S	-59.85	-62.19	5.68	-3.34	-25.00	-34.85
5005.00	H	-33.96	-35.95	9.91	-7.92	-25.00	-8.96
7507.50	H	-45.29	-47.53	12.11	-9.87	-25.00	-20.29
10010.00	H	---					
12512.50	H	-38.55	-38.58	13.11	-13.08	-25.00	-13.55
15015.00	H	---					
17517.50	H	---					
20020.00	H	---					
22522.50	H	---					
25025.00	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 B7
ARFCN :CH 21100
Fundamental Frequency :16QAM BW 5 RB 1 24
Operation Mode :2535 MHz
EUT Pol. :TX MID
E2 Plane :Measurement Antenna Pol. :VERTICAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm				
90.14	S	-70.89	-71.30	1.60	-1.20	-25.00	-45.89
246.31	S	-67.78	-71.66	5.57	-1.69	-25.00	-42.78
381.14	S	-70.09	-74.15	6.09	-2.04	-25.00	-45.09
641.10	S	-64.37	-67.71	6.00	-2.67	-25.00	-39.37
872.93	S	-54.77	-57.51	5.92	-3.18	-25.00	-29.77
942.77	S	-59.16	-61.62	5.78	-3.33	-25.00	-34.16
5070.00	H	-28.31	-30.29	9.96	-7.98	-25.00	-3.31
7605.00	H	-43.73	-45.99	12.19	-9.92	-25.00	-18.73
10140.00	H	-42.80	-44.19	13.00	-11.62	-25.00	-17.80
12675.00	H	---					
15210.00	H	-30.50	-30.11	13.92	-14.30	-25.00	-5.50
17745.00	H						
20280.00	H						
22815.00	H						
25350.00	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 B7	Test Date	:2013-11-13
ARFCN	:CH 21100 16QAM BW 5 RB 1 24	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:2535 MHz	Engineer	:Allen
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG	Antenna	Cable	Limit	Margin
			Output Level dBm	Gain dBi	Loss dB	dBm	dB
36.79	S	-61.89	-48.55	-12.54	-0.80	-25.00	-36.89
351.07	S	-68.02	-72.34	6.30	-1.98	-25.00	-43.02
367.56	S	-68.07	-72.25	6.19	-2.01	-25.00	-43.07
593.57	S	-68.64	-71.68	5.65	-2.60	-25.00	-43.64
878.75	S	-53.33	-56.03	5.90	-3.20	-25.00	-28.33
942.77	S	-60.64	-63.10	5.78	-3.33	-25.00	-35.64
5070.00	H	-37.46	-39.44	9.96	-7.98	-25.00	-12.46
7605.00	H						
10140.00	H						
12675.00	H						
15210.00	H						
17745.00	H						
20280.00	H						
22815.00	H						
25350.00	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 B7
ARFCN :CH 21425
Fundamental Frequency 16QAM BW 5 RB 1 24
Operation Mode :2567.5 MHz
EUT Pol. :TX HIGH
Test Date :2013-11-13
Temp./Humi. :24 deg_C / 59 RH
Engineer :Allen
Measurement Antenna Pol. :VERTICAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG	Antenna Gain dB	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm				
90.14	S	-70.93	-71.33	1.60	-1.20	-25.00	-45.93
248.25	S	-67.86	-71.74	5.58	-1.70	-25.00	-42.86
362.71	S	-70.52	-74.74	6.22	-2.00	-25.00	-45.52
650.80	S	-63.59	-67.00	6.09	-2.68	-25.00	-38.59
878.75	S	-53.52	-56.22	5.90	-3.20	-25.00	-28.52
940.83	S	-60.57	-63.03	5.79	-3.32	-25.00	-35.57
5135.00	H	-27.60	-29.58	10.02	-8.04	-25.00	-2.60
7702.50	H	-45.21	-47.49	12.27	-9.98	-25.00	-20.21
10270.00	H	-44.08	-45.39	13.00	-11.70	-25.00	-19.08
12837.50	H	-32.04	-32.06	13.24	-13.23	-25.00	-7.04
15405.00	H	-29.85	-29.22	13.76	-14.39	-25.00	-4.85
17972.50	H	---					
20540.00	H	---					
23107.50	H	---					
25675.00	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 B7	Test Date	:2013-11-13
ARFCN	:CH 21425 16QAM BW 5 RB 1 24	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:2567.5 MHz	Engineer	:Allen
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG	Antenna	Cable	Limit	Margin
			Output Level dBm	Gain dBi	Loss dB	dBm	dB
36.79	S	-62.29	-48.94	-12.54	-0.80	-25.00	-37.29
351.07	S	-66.70	-71.02	6.30	-1.98	-25.00	-41.70
366.59	S	-67.79	-71.98	6.19	-2.01	-25.00	-42.79
592.60	S	-68.54	-71.59	5.65	-2.60	-25.00	-43.54
878.75	S	-53.78	-56.48	5.90	-3.20	-25.00	-28.78
942.77	S	-59.09	-61.55	5.78	-3.33	-25.00	-34.09
5135.00	H	-37.47	-39.44	10.02	-8.04	-25.00	-12.47
7702.50	H	-46.13	-48.42	12.27	-9.98	-25.00	-21.13
10270.00	H	---					
12837.50	H	-37.28	-37.30	13.24	-13.23	-25.00	-12.28
15405.00	H	---					
17972.50	H	---					
20540.00	H	---					
23107.50	H	---					
25675.00	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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Radiated Spurious Emission Measurement Result: 5MHz BW LTE-Band 17 (Worst case)

Operation Band :LTE B17 Test Date :2013-11-13
ARFCN :CH 23755 Temp./Humi. :24 deg_C / 59 RH
16QAM BW 5 RB 10
Fundamental Frequency :706.5 MHz Engineer :Curry
Operation Mode :TX LOW
EUT Pol. :E2 Plane Measurement Antenna Pol. :VERTICAL

Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm		Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
			SG Output Level dBm	Antenna Gain dBd				
145.43	S	-74.68	-70.78	-2.52	-1.37	-13.00	-61.68	
271.53	S	-72.56	-74.17	3.40	-1.78	-13.00	-59.56	
420.91	S	-72.63	-74.20	3.70	-2.13	-13.00	-59.63	
577.08	S	-70.83	-71.91	3.64	-2.56	-13.00	-57.83	
819.58	S	-65.96	-66.86	3.91	-3.01	-13.00	-52.96	
913.67	S	-64.73	-65.10	3.65	-3.28	-13.00	-51.73	
1413.00	H	-52.50	-51.86	3.45	-4.09	-13.00	-39.50	
2119.50	H	---						
2826.00	H	---						
3532.50	H	---						
4239.00	H	---						
4945.50	H	---						
5652.00	H	---						
6358.50	H	---						
7065.00	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 B17
ARFCN :CH 23755
16QAM BW 5 RB 10
Fundamental Frequency :706.5 MHz
Operation Mode :TX LOW
EUT Pol. :E2 Plane

Test Date :2013-11-13
Temp./Humi. :24 deg_C / 59 RH
Engineer :Curry
Measurement Antenna Pol. :HORIZONTAL

Freq. MHz	Note F/H/E/S	ERP dBm	SG	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm				
40.67	S	-70.22	-55.24	-14.16	-0.81	-13.00	-57.22
346.22	S	-76.25	-78.40	4.12	-1.97	-13.00	-63.25
529.55	S	-71.21	-72.61	3.84	-2.44	-13.00	-58.21
644.01	S	-69.75	-70.96	3.88	-2.68	-13.00	-56.75
815.70	S	-66.12	-67.03	3.92	-3.00	-13.00	-53.12
920.46	S	-65.68	-66.04	3.65	-3.29	-13.00	-52.68
1413.00	H	-54.44	-53.80	3.45	-4.09	-13.00	-41.44
2119.50	H	---					
2826.00	H	---					
3532.50	H	---					
4239.00	H	---					
4945.50	H	---					
5652.00	H	---					
6358.50	H	---					
7065.00	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 B17
ARFCN :CH 23790
Fundamental Frequency :16QAM BW 5 RB 10
Operation Mode :710.0 MHz
EUT Pol. :TX MID
:E2 Plane

Test Date :2013-11-13
Temp./Humi. :24 deg_C / 59 RH
Engineer :Curry
Measurement Antenna Pol. :VERTICAL

Freq. MHz	Note F/H/E/S	ERP dBm	SG	Antenna	Cable	Limit	Margin
			Output Level dBm	Gain dBd	Loss dB	dBm	dB
96.93	S	-75.73	-73.59	-0.95	-1.20	-13.00	-62.73
265.71	S	-73.12	-74.84	3.48	-1.76	-13.00	-60.12
422.85	S	-72.81	-74.36	3.69	-2.14	-13.00	-59.81
593.57	S	-69.80	-70.69	3.50	-2.60	-13.00	-56.80
773.99	S	-65.00	-65.91	3.81	-2.90	-13.00	-52.00
906.88	S	-64.15	-64.54	3.66	-3.27	-13.00	-51.15
1420.00	H	-56.24	-55.64	3.49	-4.10	-13.00	-43.24
2130.00	H	---					
2840.00	H	---					
3550.00	H	---					
4260.00	H	---					
4970.00	H	---					
5680.00	H	---					
6390.00	H	---					
7100.00	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 B17
ARFCN :CH 23790
Fundamental Frequency :16QAM BW 5 RB 10
Operation Mode :710.0 MHz
EUT Pol. :TX MID
:E2 Plane

Test Date :2013-11-13
Temp./Humi. :24 deg_C / 59 RH
Engineer :Curry
Measurement Antenna Pol. :HORIZONTAL

Freq. MHz	Note F/H/E/S	ERP dBm	SG	Antenna	Cable	Limit	Margin
			Output Level dBm	Gain dBd	Loss dB	dBm	dB
139.61	S	-76.95	-72.81	-2.79	-1.35	-13.00	-63.95
371.44	S	-75.69	-77.68	4.01	-2.02	-13.00	-62.69
539.25	S	-71.39	-72.79	3.86	-2.46	-13.00	-58.39
642.07	S	-69.39	-70.58	3.86	-2.67	-13.00	-56.39
857.41	S	-66.46	-67.17	3.84	-3.13	-13.00	-53.46
935.98	S	-65.76	-66.09	3.64	-3.32	-13.00	-52.76
1420.00	H	-59.90	-59.29	3.49	-4.10	-13.00	-46.90
2130.00	H	---					
2840.00	H	---					
3550.00	H	---					
4260.00	H	---					
4970.00	H	---					
5680.00	H	---					
6390.00	H	---					
7100.00	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 B17
ARFCN :CH 23825
Fundamental Frequency :16QAM BW 5 RB 10
Operation Mode :713.5 MHz
EUT Pol. :TX HIGH
:E2 Plane

Test Date :2013-11-13
Temp./Humi. :24 deg_C / 59 RH
Engineer :Curry
Measurement Antenna Pol. :VERTICAL

Freq. MHz	Note F/H/E/S	ERP dBm	SG	Antenna	Cable	Limit	Margin
			Output Level dBm	Gain dBd	Loss dB	dBm	dB
178.41	S	-75.51	-74.54	0.49	-1.46	-13.00	-62.51
304.51	S	-72.68	-74.47	3.67	-1.88	-13.00	-59.68
410.24	S	-72.31	-73.97	3.76	-2.10	-13.00	-59.31
644.01	S	-65.96	-67.17	3.88	-2.68	-13.00	-52.96
765.26	S	-64.57	-65.45	3.76	-2.88	-13.00	-51.57
934.04	S	-65.31	-65.63	3.64	-3.31	-13.00	-52.31
1427.00	H	-51.84	-51.28	3.54	-4.11	-13.00	-38.84
2140.50	H	---					
2854.00	H	---					
3567.50	H	---					
4281.00	H	---					
4994.50	H	---					
5708.00	H	---					
6421.50	H	---					
7135.00	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 B17
ARFCN :CH 23825
Fundamental Frequency :16QAM BW 5 RB 10
Operation Mode :TX HIGH
EUT Pol. :E2 Plane

Test Date :2013-11-13
Temp./Humi. :24 deg_C / 59 RH
Engineer :Curry
Measurement Antenna Pol. :HORIZONTAL

Freq. MHz	Note F/H/E/S	ERP dBm	SG	Antenna	Cable	Limit	Margin
			Output Level dBm	Gain dBd	Loss dB	dBm	dB
34.85	S	-69.00	-53.23	-14.97	-0.80	-13.00	-56.00
289.96	S	-78.41	-80.00	3.43	-1.84	-13.00	-65.41
463.59	S	-72.29	-73.64	3.60	-2.26	-13.00	-59.29
585.81	S	-70.87	-71.85	3.56	-2.58	-13.00	-57.87
817.64	S	-66.71	-67.62	3.91	-3.01	-13.00	-53.71
933.07	S	-65.42	-65.74	3.64	-3.31	-13.00	-52.42
1427.00	H	-55.15	-54.59	3.54	-4.11	-13.00	-42.15
2140.50	H	---					
2854.00	H	---					
3567.50	H	---					
4281.00	H	---					
4994.50	H	---					
5708.00	H	---					
6421.50	H	---					
7135.00	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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12. FREQUENCY STABILITY V.S. TEMPERATURE MEASUREMENT

12.1. Standard Applicable:

According to FCC §2.1055(a) (1)

Frequency Tolerance: $\pm 2.5\text{ppm}$ for 850MHz band

$\pm 2.5\text{ppm}$ for 1900MHz band

$\pm 2.5\text{ppm}$ for 1700MHz band

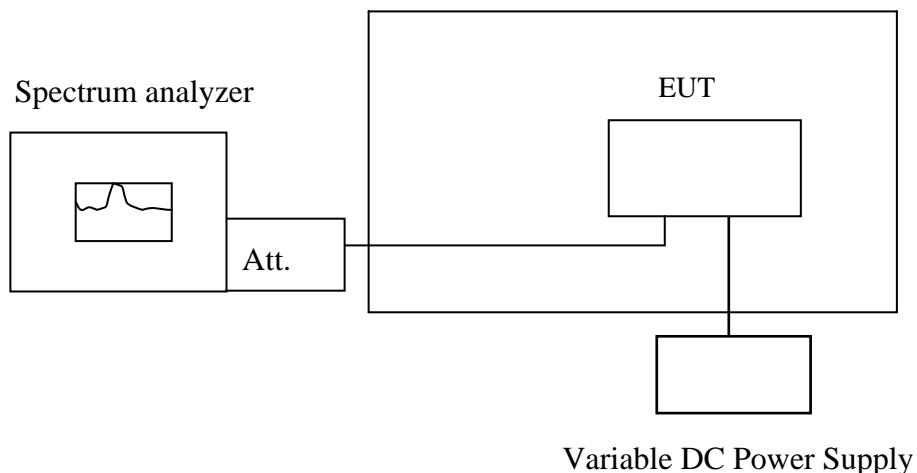
$\pm 2.5\text{ppm}$ for 700MHz band

$\pm 2.5\text{ppm}$ for 2500MHz band

The carrier frequency shall not depart from the reference frequency in excess of ± 2.5 ppm for mobile stations

12.2. Test Set-up:

Temperature Chamber



Note : Measurement setup for testing on Antenna connector

12.3. 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.

12.4. Measurement Equipment Used:

Refer to section 2.4 in this report

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12.5. Measurement Result:

GPRS850

Reference Frequency: GPRS Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(Hz)		
3.7	50	836599996	16	2091
3.7	40	836599990	10	2091
3.7	30	836599991	11	2091
3.7	20	836599980	0	2091
3.7	10	836599993	13	2091
3.7	0	836599995	15	2091
3.7	-10	836599994	14	2091
3.7	-20	836599988	8	2091
3.7	-30	836599989	9	2091

GPRS1900

Reference Frequency: GPRS Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(Hz)		
3.7	50	1879999993	0	4700
3.7	40	1879999994	1	4700
3.7	30	1879999989	-4	4700
3.7	20	1879999993	0	4700
3.7	10	1879999997	4	4700
3.7	0	1879999994	1	4700
3.7	-10	1879999991	-2	4700
3.7	-20	1879999990	-3	4700
3.7	-30	1879999988	-5	4700

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WCDMA II

Reference Frequency: WCDMA Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(Hz)		
3.7	50	1879999986	-2	4700
3.7	40	1879999987	-1	4700
3.7	30	1879999978	-10	4700
3.7	20	1879999988	0	4700
3.7	10	1879999978	-10	4700
3.7	0	1879999984	-4	4700
3.7	-10	1880000016	28	4700
3.7	-20	1880000027	39	4700
3.7	-30	1880000028	40	4700

WCDMA V

Reference Frequency: WCDMA Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(Hz)		
3.7	50	836600011	19	2091
3.7	40	836599993	1	2091
3.7	30	836599988	-4	2091
3.7	20	836599992	0	2091
3.7	10	836600008	16	2091
3.7	0	836599992	0	2091
3.7	-10	836599987	-5	2091
3.7	-20	836600012	20	2091
3.7	-30	836600018	26	2091

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Reference Frequency:		LTE B2 Mid Channel	1880.0	MHz	1.4M QPSK CH 18900
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
3.7	-30	1879.999982	-5.70	4700	4700
3.7	-20	1879.999990	2.40	4700	4700
3.7	-10	1879.999988	0.20	4700	4700
3.7	0	1879.999991	3.00	4700	4700
3.7	10	1879.999988	0.70	4700	4700
3.7	20	1879.999988	0.00	4700	4700
3.7	30	1879.999994	6.70	4700	4700
3.7	40	1879.999988	-0.10	4700	4700
3.7	50	1880.000004	16.20	4700	4700

Reference Frequency:		LTE B2 Mid Channel	1880.0	MHz	1.4M 16QAM CH 18900
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
3.7	-30	1879.999984	-30.70	4700	4700
3.7	-20	1879.999986	-28.40	4700	4700
3.7	-10	1879.999991	-23.20	4700	4700
3.7	0	1879.999984	-30.70	4700	4700
3.7	10	1879.999983	-31.00	4700	4700
3.7	20	1880.000014	0.00	4700	4700
3.7	30	1879.999992	-22.50	4700	4700
3.7	40	1879.999982	-32.20	4700	4700
3.7	50	1880.000002	-12.80	4700	4700

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Reference Frequency:		LTE B2 Mid Channel	1880.0	MHz	3M QPSK CH 18900
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
3.7	-30	1879.999982	-11.00	4700	4700
3.7	-20	1879.999987	-6.30	4700	4700
3.7	-10	1879.999992	-1.50	4700	4700
3.7	0	1879.999998	4.60	4700	4700
3.7	10	1879.999991	-1.90	4700	4700
3.7	20	1879.999993	0.00	4700	4700
3.7	30	1879.999993	0.20	4700	4700
3.7	40	1879.999996	3.00	4700	4700
3.7	50	1879.999999	6.00	4700	4700

Reference Frequency:		LTE B2 Mid Channel	1880.0	MHz	3M 16QAM CH 18900
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
3.7	-30	1880.000012	15.10	4700	4700
3.7	-20	1880.000012	15.60	4700	4700
3.7	-10	1879.999995	-1.70	4700	4700
3.7	0	1879.999995	-1.40	4700	4700
3.7	10	1879.999991	-5.60	4700	4700
3.7	20	1879.999997	0.00	4700	4700
3.7	30	1879.999999	2.30	4700	4700
3.7	40	1880.000013	16.30	4700	4700
3.7	50	1879.999995	-1.70	4700	4700

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Reference Frequency:		LTE B2 Mid Channel	1880.0	MHz	5M QPSK CH 18900
Power Supply	Environment	Frequency	Limit: +/- 2.5 ppm = Hz		
			Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
3.7	-30	1880.000011	6.40		4700
3.7	-20	1880.000014	9.20		4700
3.7	-10	1880.000013	8.00		4700
3.7	0	1880.000009	3.60		4700
3.7	10	1879.999994	-10.70		4700
3.7	20	1880.000005	0.00		4700
3.7	30	1880.000001	-3.90		4700
3.7	40	1880.000003	-2.10		4700
3.7	50	1880.000010	5.10		4700

Reference Frequency:		LTE B2 Mid Channel	1880.0	MHz	5M 16QAM CH 18900
Power Supply	Environment	Frequency	Limit: +/- 2.5 ppm = Hz		
			Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
3.7	-30	1880.000010	17.70		4700
3.7	-20	1880.000006	14.60		4700
3.7	-10	1880.000007	15.40		4700
3.7	0	1880.000013	20.70		4700
3.7	10	1879.999996	4.20		4700
3.7	20	1879.999992	0.00		4700
3.7	30	1879.999993	0.80		4700
3.7	40	1879.999999	7.10		4700
3.7	50	1879.999998	6.20		4700

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Reference Frequency:		LTE B2 Mid Channel	1880.0	MHz	10M QPSK CH 18900
Power Supply	Environment	Frequency	Limit: +/- 2.5 ppm = Hz		
			Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
3.7	-30	1880.000011	15.00		4700
3.7	-20	1879.999996	0.00		4700
3.7	-10	1879.999992	-4.10		4700
3.7	0	1879.999996	-0.10		4700
3.7	10	1879.999998	1.70		4700
3.7	20	1879.999996	0.00		4700
3.7	30	1879.999995	-0.90		4700
3.7	40	1879.999993	-3.10		4700
3.7	50	1879.999990	-5.90		4700

Reference Frequency:		LTE B2 Mid Channel	1880.0	MHz	10M 16QAM CH 18900
Power Supply	Environment	Frequency	Limit: +/- 2.5 ppm = Hz		
			Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
3.7	-30	1880.000007	1.10		4700
3.7	-20	1880.000003	-2.50		4700
3.7	-10	1880.000011	5.40		4700
3.7	0	1880.000008	2.50		4700
3.7	10	1880.000004	-1.40		4700
3.7	20	1880.000006	0.00		4700
3.7	30	1880.000003	-2.70		4700
3.7	40	1880.000015	9.40		4700
3.7	50	1880.000003	-3.00		4700

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Reference Frequency:		LTE B2 Mid Channel	1880.0	MHz	15M QPSK CH 18900
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
3.7	-30	1880.000011	24.60	4700	4700
3.7	-20	1880.000004	17.00	4700	4700
3.7	-10	1879.999992	5.40	4700	4700
3.7	0	1879.999995	8.50	4700	4700
3.7	10	1879.999998	11.20	4700	4700
3.7	20	1879.999987	0.00	4700	4700
3.7	30	1880.000005	18.40	4700	4700
3.7	40	1880.000001	14.40	4700	4700
3.7	50	1879.999993	6.40	4700	4700

Reference Frequency:		LTE B2 Mid Channel	1880.0	MHz	15M 16QAM CH 18900
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
3.7	-30	1880.000007	1.30	4700	4700
3.7	-20	1880.000005	-1.40	4700	4700
3.7	-10	1880.000010	3.90	4700	4700
3.7	0	1879.999986	-19.90	4700	4700
3.7	10	1879.999998	-7.90	4700	4700
3.7	20	1880.000006	0.00	4700	4700
3.7	30	1879.999999	-6.90	4700	4700
3.7	40	1880.000004	-1.70	4700	4700
3.7	50	1880.000002	-3.80	4700	4700

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Reference Frequency:		LTE B2 Mid Channel	1880.0	MHz	20M QPSK CH 18900
Power Supply	Environment	Frequency	Limit: +/- 2.5 ppm = Hz		
			Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
3.7	-30	1880.000012	7.20		4700
3.7	-20	1880.000009	4.30		4700
3.7	-10	1879.999992	-13.00		4700
3.7	0	1879.999996	-9.20		4700
3.7	10	1879.999989	-16.00		4700
3.7	20	1880.000005	0.00		4700
3.7	30	1879.999992	-13.00		4700
3.7	40	1880.000002	-3.00		4700
3.7	50	1879.999990	-15.00		4700

Reference Frequency:		LTE B2 Mid Channel	1880.0	MHz	20M 16QAM CH 18900
Power Supply	Environment	Frequency	Limit: +/- 2.5 ppm = Hz		
			Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
3.7	-30	1880.000008	10.20		4700
3.7	-20	1879.999998	-0.40		4700
3.7	-10	1880.000005	7.00		4700
3.7	0	1880.000007	9.00		4700
3.7	10	1879.999992	-6.10		4700
3.7	20	1879.999998	0.00		4700
3.7	30	1880.000005	7.00		4700
3.7	40	1880.000004	6.00		4700
3.7	50	1879.999991	-7.00		4700

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Reference Frequency:		LTE B5 Mid Channel	836.5	MHz	1.4M QPSK CH 20525
Power Supply	Environment	Frequency	Limit: +/- 2.5 ppm = Hz		
			Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
3.7	-30	836.500005	15.80		2091
3.7	-20	836.500003	14.40		2091
3.7	-10	836.500003	14.00		2091
3.7	0	836.500004	14.70		2091
3.7	10	836.499987	-1.40		2091
3.7	20	836.499989	0.00		2091
3.7	30	836.499988	-0.40		2091
3.7	40	836.500003	14.10		2091
3.7	50	836.499990	0.80		2091

Reference Frequency:		LTE B5 Mid Channel	836.5	MHz	1.4M 16QAM CH 20525
Power Supply	Environment	Frequency	Limit: +/- 2.5 ppm = Hz		
			Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
3.7	-30	836.500002	11.70		2091
3.7	-20	836.500002	11.50		2091
3.7	-10	836.500001	10.70		2091
3.7	0	836.500002	10.80		2091
3.7	10	836.499988	-2.60		2091
3.7	20	836.499991	0.00		2091
3.7	30	836.499992	1.20		2091
3.7	40	836.500001	10.70		2091
3.7	50	836.499987	-3.70		2091

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Reference Frequency:		LTE B5 Mid Channel	836.5	MHz	3M QPSK CH 20525
Power Supply	Environment	Frequency	Limit: +/- 2.5 ppm = Hz		
			Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
3.7	-30	836.500007	13.20		2091
3.7	-20	836.500002	8.10		2091
3.7	-10	836.500003	9.20		2091
3.7	0	836.499998	4.40		2091
3.7	10	836.499988	-6.30		2091
3.7	20	836.499994	0.00		2091
3.7	30	836.499997	3.10		2091
3.7	40	836.499998	4.20		2091
3.7	50	836.499993	-1.00		2091

Reference Frequency:		LTE B5 Mid Channel	836.5	MHz	3M 16QAM CH 20525
Power Supply	Environment	Frequency	Limit: +/- 2.5 ppm = Hz		
			Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
3.7	-30	836.500008	12.10		2091
3.7	-20	836.500012	16.40		2091
3.7	-10	836.500007	11.30		2091
3.7	0	836.499999	2.60		2091
3.7	10	836.499989	-6.80		2091
3.7	20	836.499996	0.00		2091
3.7	30	836.499995	-0.70		2091
3.7	40	836.499994	-2.00		2091
3.7	50	836.499993	-3.20		2091

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Reference Frequency:		LTE B5 Mid Channel	836.5	MHz	5M QPSK CH 20525
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
3.7	-30	836.500004	6.90	2091	
3.7	-20	836.500003	5.50	2091	
3.7	-10	836.499999	2.00	2091	
3.7	0	836.499998	0.70	2091	
3.7	10	836.499993	-4.40	2091	
3.7	20	836.499997	0.00	2091	
3.7	30	836.499999	2.00	2091	
3.7	40	836.499995	-2.40	2091	
3.7	50	836.499994	-3.00	2091	

Reference Frequency:		LTE B5 Mid Channel	836.5	MHz	5M 16QAM CH 20525
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
3.7	-30	836.500005	6.60	2091	
3.7	-20	836.500002	3.70	2091	
3.7	-10	836.500011	13.00	2091	
3.7	0	836.500004	5.40	2091	
3.7	10	836.499998	-0.20	2091	
3.7	20	836.499998	0.00	2091	
3.7	30	836.499997	-1.60	2091	
3.7	40	836.500002	3.30	2091	
3.7	50	836.499998	-0.20	2091	

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Reference Frequency:		LTE B5 Mid Channel	836.5	MHz	10M QPSK CH 20525
Power Supply	Environment	Frequency	Limit: +/- 2.5 ppm = Hz		
			Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
3.7	-30	836.500005	13.40		2091
3.7	-20	836.500012	20.60		2091
3.7	-10	836.500003	11.30		2091
3.7	0	836.499993	1.40		2091
3.7	10	836.499994	2.50		2091
3.7	20	836.499992	0.00		2091
3.7	30	836.499998	6.50		2091
3.7	40	836.500004	12.10		2091
3.7	50	836.500005	13.50		2091

Reference Frequency:		LTE B5 Mid Channel	836.5	MHz	10M 16QAM CH 20525
Power Supply	Environment	Frequency	Limit: +/- 2.5 ppm = Hz		
			Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
3.7	-30	836.500004	-0.90		2091
3.7	-20	836.500002	-3.30		2091
3.7	-10	836.500003	-2.20		2091
3.7	0	836.499991	-13.80		2091
3.7	10	836.500004	-0.90		2091
3.7	20	836.500005	0.00		2091
3.7	30	836.499996	-9.00		2091
3.7	40	836.499998	-6.80		2091
3.7	50	836.499993	-12.00		2091

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Reference Frequency: LTE B4 Mid Channel 1732.5 MHz 1.4M QPSK CH 20175				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.7	-30	1732.500001	12.50	4331
3.7	-20	1732.499985	-3.30	4331
3.7	-10	1732.499995	6.20	4331
3.7	0	1732.499988	-0.60	4331
3.7	10	1732.499984	-5.00	4331
3.7	20	1732.499989	0.00	4331
3.7	30	1732.499983	-5.80	4331
3.7	40	1732.499995	6.30	4331
3.7	50	1732.499984	-4.70	4331

Reference Frequency: LTE B4 Mid Channel 1732.5 MHz 1.4M 16QAM CH 20175				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.7	-30	1732.500007	11.70	4331
3.7	-20	1732.499991	-4.50	4331
3.7	-10	1732.499994	-2.00	4331
3.7	0	1732.499996	0.80	4331
3.7	10	1732.499978	-17.50	4331
3.7	20	1732.499996	0.00	4331
3.7	30	1732.499990	-5.50	4331
3.7	40	1732.499992	-3.50	4331
3.7	50	1732.499989	-6.70	4331

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Reference Frequency: LTE B4 Mid Channel 1732.5 MHz 3M QPSK CH 20175				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.7	-30	1732.500007	18.00	4331
3.7	-20	1732.499990	1.00	4331
3.7	-10	1732.499992	3.20	4331
3.7	0	1732.499988	-0.30	4331
3.7	10	1732.499984	-4.70	4331
3.7	20	1732.499989	0.00	4331
3.7	30	1732.499990	1.00	4331
3.7	40	1732.499995	6.90	4331
3.7	50	1732.499986	-2.30	4331

Reference Frequency: LTE B4 Mid Channel 1732.5 MHz 3M 16QAM CH 20175				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.7	-30	1732.500007	12.10	4331
3.7	-20	1732.499992	-3.00	4331
3.7	-10	1732.499993	-1.90	4331
3.7	0	1732.499995	0.50	4331
3.7	10	1732.499979	-15.90	4331
3.7	20	1732.499995	0.00	4331
3.7	30	1732.499989	-5.50	4331
3.7	40	1732.499992	-3.00	4331
3.7	50	1732.499988	-6.60	4331

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Reference Frequency: LTE B4 Mid Channel 1732.5 MHz 5M QPSK CH 20175				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.7	-30	1732.500002	13.20	4331
3.7	-20	1732.499985	-4.50	4331
3.7	-10	1732.499993	4.10	4331
3.7	0	1732.499989	0.10	4331
3.7	10	1732.499983	-6.20	4331
3.7	20	1732.499989	0.00	4331
3.7	30	1732.499982	-7.40	4331
3.7	40	1732.499996	6.60	4331
3.7	50	1732.499984	-5.60	4331

Reference Frequency: LTE B4 Mid Channel 1732.5 MHz 5M 16QAM CH 20175				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.7	-30	1732.500008	12.80	4331
3.7	-20	1732.499992	-3.00	4331
3.7	-10	1732.499993	-2.20	4331
3.7	0	1732.499995	0.70	4331
3.7	10	1732.499978	-16.50	4331
3.7	20	1732.499995	0.00	4331
3.7	30	1732.499990	-5.20	4331
3.7	40	1732.499991	-4.00	4331
3.7	50	1732.499988	-6.80	4331

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Reference Frequency: LTE B4 Mid Channel 1732.5 MHz 10M QPSK CH 20175				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.7	-30	1732.500009	14.10	4331
3.7	-20	1732.499991	-3.70	4331
3.7	-10	1732.499993	-1.80	4331
3.7	0	1732.499996	1.30	4331
3.7	10	1732.499979	-15.90	4331
3.7	20	1732.499994	0.00	4331
3.7	30	1732.499988	-6.00	4331
3.7	40	1732.499990	-4.00	4331
3.7	50	1732.499988	-6.70	4331

Reference Frequency: LTE B4 Mid Channel 1732.5 MHz 10M 16QAM CH 20175				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.7	-30	1732.500001	12.50	4331
3.7	-20	1732.499985	-3.30	4331
3.7	-10	1732.499995	6.20	4331
3.7	0	1732.499988	-0.60	4331
3.7	10	1732.499984	-5.00	4331
3.7	20	1732.499989	0.00	4331
3.7	30	1732.499983	-5.80	4331
3.7	40	1732.499995	6.30	4331
3.7	50	1732.499984	-4.70	4331

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Reference Frequency: LTE B4 Mid Channel 1732.5 MHz 15M QPSK CH 20175				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.7	-30	1732.500002	14.10	4331
3.7	-20	1732.499984	-3.80	4331
3.7	-10	1732.499993	4.50	4331
3.7	0	1732.499989	1.00	4331
3.7	10	1732.499983	-5.00	4331
3.7	20	1732.499988	0.00	4331
3.7	30	1732.499982	-6.30	4331
3.7	40	1732.499994	5.50	4331
3.7	50	1732.499985	-3.00	4331

Reference Frequency: LTE B4 Mid Channel 1732.5 MHz 15M 16QAM CH 20175				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.7	-30	1732.500007	12.40	4331
3.7	-20	1732.499992	-3.00	4331
3.7	-10	1732.499994	-0.80	4331
3.7	0	1732.499996	1.00	4331
3.7	10	1732.499980	-15.00	4331
3.7	20	1732.499995	0.00	4331
3.7	30	1732.499988	-6.50	4331
3.7	40	1732.499990	-4.60	4331
3.7	50	1732.499989	-5.60	4331

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Reference Frequency: LTE B4 Mid Channel 1732.5 MHz 20M QPSK CH 20175				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.7	-30	1732.500003	15.00	4331
3.7	-20	1732.499985	-2.40	4331
3.7	-10	1732.499994	6.20	4331
3.7	0	1732.499988	0.20	4331
3.7	10	1732.499983	-4.60	4331
3.7	20	1732.499988	0.00	4331
3.7	30	1732.499982	-5.80	4331
3.7	40	1732.499993	5.10	4331
3.7	50	1732.499983	-4.30	4331

Reference Frequency: LTE B4 Mid Channel 1732.5 MHz 20M 16QAM CH 20175				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.7	-30	1732.500008	11.50	4331
3.7	-20	1732.499990	-6.60	4331
3.7	-10	1732.499993	-4.00	4331
3.7	0	1732.499999	2.00	4331
3.7	10	1732.499978	-18.60	4331
3.7	20	1732.499997	0.00	4331
3.7	30	1732.499989	-7.80	4331
3.7	40	1732.499991	-6.10	4331
3.7	50	1732.499988	-8.90	4331

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Reference Frequency:		LTE B7 Mid Channel	2535.0	MHz	5M QPSK CH 21100
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency			
Vdc	Temperature ()	(MHz)	Delta (Hz)	Limit (Hz)	
3.7	-30	2535.000008	12.80	6338	
3.7	-20	2535.000004	8.90	6338	
3.7	-10	2534.999996	0.70	6338	
3.7	0	2535.000004	8.10	6338	
3.7	10	2534.999990	-5.90	6338	
3.7	20	2534.999996	0.00	6338	
3.7	30	2534.999992	-3.80	6338	
3.7	40	2534.999995	-0.10	6338	
3.7	50	2535.000005	9.50	6338	

Reference Frequency:		LTE B7 Mid Channel	2535.0	MHz	5M 16QAM CH 21100
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency			
Vdc	Temperature ()	(MHz)	Delta (Hz)	Limit (Hz)	
3.7	-30	2535.000004	14.40	6338	
3.7	-20	2535.000002	12.30	6338	
3.7	-10	2534.999995	5.50	6338	
3.7	0	2535.000009	18.70	6338	
3.7	10	2534.999990	0.30	6338	
3.7	20	2534.999990	0.00	6338	
3.7	30	2534.999990	0.40	6338	
3.7	40	2534.999999	9.20	6338	
3.7	50	2535.000007	16.70	6338	

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Reference Frequency:		LTE B7 Mid Channel	2535.0	MHz	10M QPSK CH 21100
Power Supply	Environment	Limit: +/- 2.5 ppm = Hz			
		Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
3.7	-30	2535.000009	14.20	6338	
3.7	-20	2535.000006	10.70	6338	
3.7	-10	2534.999996	0.80	6338	
3.7	0	2535.000002	7.40	6338	
3.7	10	2534.999989	-6.20	6338	
3.7	20	2534.999995	0.00	6338	
3.7	30	2534.999991	-4.00	6338	
3.7	40	2534.999995	-0.20	6338	
3.7	50	2535.000004	9.40	6338	

Reference Frequency:		LTE B7 Mid Channel	2535.0	MHz	10M 16QAM CH 21100
Power Supply	Environment	Limit: +/- 2.5 ppm = Hz			
		Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
3.7	-30	2535.000004	15.10	6338	
3.7	-20	2535.000003	14.50	6338	
3.7	-10	2534.999996	7.20	6338	
3.7	0	2535.000008	18.90	6338	
3.7	10	2534.999991	2.40	6338	
3.7	20	2534.999989	0.00	6338	
3.7	30	2534.999992	3.20	6338	
3.7	40	2534.999998	9.20	6338	
3.7	50	2535.000007	18.70	6338	

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Reference Frequency:		LTE B7 Mid Channel	2535.0	MHz	15M QPSK CH 21100
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)		Limit (Hz)
Vdc	Temperature ()	(MHz)			
3.7	-30	2535.000009	14.70		6338
3.7	-20	2535.000006	11.20		6338
3.7	-10	2534.999996	1.50		6338
3.7	0	2535.000004	9.40		6338
3.7	10	2534.999989	-5.80		6338
3.7	20	2534.999994	0.00		6338
3.7	30	2534.999992	-2.10		6338
3.7	40	2534.999994	0.00		6338
3.7	50	2535.000004	9.90		6338

Reference Frequency:		LTE B7 Mid Channel	2535.0	MHz	15M 16QAM CH 21100
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)		Limit (Hz)
Vdc	Temperature ()	(MHz)			
3.7	-30	2535.000004	15.00		6338
3.7	-20	2535.000002	13.20		6338
3.7	-10	2534.999996	7.50		6338
3.7	0	2535.000009	20.40		6338
3.7	10	2534.999992	3.20		6338
3.7	20	2534.999989	0.00		6338
3.7	30	2534.999990	0.80		6338
3.7	40	2534.999998	9.40		6338
3.7	50	2535.000007	18.50		6338

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Reference Frequency:		LTE B7 Mid Channel	2535.0	MHz	20M QPSK CH 21100
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency			Limit (Hz)
Vdc	Temperature ()	(MHz)	Delta (Hz)		
3.7	-30	2535.000009	14.90		6338
3.7	-20	2535.000006	11.20		6338
3.7	-10	2534.999996	1.30		6338
3.7	0	2535.000002	7.90		6338
3.7	10	2534.999988	-6.20		6338
3.7	20	2534.999994	0.00		6338
3.7	30	2534.999992	-2.50		6338
3.7	40	2534.999995	0.50		6338
3.7	50	2535.000006	11.90		6338

Reference Frequency:		LTE B7 Mid Channel	2535.0	MHz	20M 16QAM CH 21100
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency			Limit (Hz)
Vdc	Temperature ()	(MHz)	Delta (Hz)		
3.7	-30	2535.000006	15.90		6338
3.7	-20	2535.000003	13.10		6338
3.7	-10	2534.999995	4.50		6338
3.7	0	2535.000009	18.90		6338
3.7	10	2534.999990	-0.30		6338
3.7	20	2534.999990	0.00		6338
3.7	30	2534.999994	3.50		6338
3.7	40	2534.999998	7.50		6338
3.7	50	2535.000007	17.20		6338

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Reference Frequency:		LTE B17 Mid Channel	710.0	MHz	5M QPSK CH 23790
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
3.7	-30	710.000004	6.60	1775	
3.7	-20	709.999993	-4.30	1775	
3.7	-10	709.999988	-8.60	1775	
3.7	0	709.999986	-11.10	1775	
3.7	10	709.999993	-3.60	1775	
3.7	20	709.999997	0.00	1775	
3.7	30	709.999984	-13.00	1775	
3.7	40	709.999991	-6.20	1775	
3.7	50	709.999989	-7.70	1775	

Reference Frequency:		LTE B17 Mid Channel	710.0	MHz	5M 16QAM CH 23790
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature ()	(MHz)			
3.7	-30	710.000003	9.00	1775	
3.7	-20	709.999987	-7.00	1775	
3.7	-10	709.999989	-5.00	1775	
3.7	0	709.999990	-3.60	1775	
3.7	10	709.999991	-2.90	1775	
3.7	20	709.999994	0.00	1775	
3.7	30	709.999987	-7.10	1775	
3.7	40	709.999991	-2.70	1775	
3.7	50	709.999996	1.90	1775	

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Reference Frequency:		LTE B17 Mid Channel	710.0	MHz	10M QPSK CH	23790
Limit: +/- 2.5 ppm = Hz						
Power Supply	Environment	Frequency		Delta (Hz)	Limit (Hz)	
		Temperature ()	(MHz)			
3.7	-30	710.000005	10.50	1775		
3.7	-20	709.999992	-3.00	1775		
3.7	-10	709.999986	-8.70	1775		
3.7	0	709.999984	-10.70	1775		
3.7	10	709.999993	-2.10	1775		
3.7	20	709.999995	0.00	1775		
3.7	30	709.999986	-9.20	1775		
3.7	40	709.999991	-3.70	1775		
3.7	50	709.999990	-4.70	1775		

Reference Frequency:		LTE B17 Mid Channel	710.0	MHz	10M 16QAM CH	23790
Limit: +/- 2.5 ppm = Hz						
Power Supply	Environment	Frequency		Delta (Hz)	Limit (Hz)	
		Temperature ()	(MHz)			
3.7	-30	710.000003	8.80	1775		
3.7	-20	709.999986	-8.60	1775		
3.7	-10	709.999989	-5.30	1775		
3.7	0	709.999991	-3.90	1775		
3.7	10	709.999992	-2.70	1775		
3.7	20	709.999994	0.00	1775		
3.7	30	709.999986	-8.90	1775		
3.7	40	709.999991	-3.50	1775		
3.7	50	709.999995	0.50	1775		

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13. FREQUENCY STABILITY V.S. VOLTAGE MEASUREMENT

13.1. Standard Applicable:

According to FCC §2.1055(d) (2)

Frequency Tolerance: +/-2.5ppm for 850MHz band

+/-2.5ppm for 1900MHz band

+/-2.5ppm for 1700MHz band

+/-2.5ppm for 700MHz band

+/-2.5ppm for 2500MHz band

The carrier frequency shall not depart from the reference frequency in excess of ± 2.5 ppm for mobile stations.

13.2. Test Set-up:

Refer to section 10.2 in this report

13.3. 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 record the frequency.

Reduce the input voltage to specified extreme-voltage-variation (+/- 15%) and endpoint, record the maximum frequency change.

13.4. Measurement Equipment Used:

Refer to section 2.4 in this report

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13.5. Measurement Result:

GPRS850

Reference Frequency: GPRS Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(Hz)		
4.2	20	836599985	5	2091
3.7	20	836599980	0	2091
3.4	20	836600007	27	2091
shutdown point				
2.9	20	836599990	10	2091

GPRS1900

Reference Frequency: GPRS Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(Hz)		
4.2	20	1879999991	-2	4700
3.7	20	1879999993	0	4700
3.4	20	1879999988	-5	4700
shutdown point				
2.8	20	1880000002	9	4700

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WCDMA II

Reference Frequency: WCDMA Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(Hz)		
4.2	20	1879999990	2	4700
3.7	20	1879999988	0	4700
3.4	20	1879999986	-2	4700
shutdown point				
2.7	20	1879999989	1	4700

WCDMA V

Reference Frequency: WCDMA Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(Hz)		
4.2	20	836599992	0	2091
3.7	20	836599992	0	2091
3.4	20	836600009	17	2091
shutdown point				
2.8	20	836600009	17	2091

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Reference Frequency: LTE B2 Mid Channel			1880.0	MHz 1.4M QPSK CH 18900
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
4.25	25	1879.999981	-3.70	4700
3.7	25	1879.999985	0.00	4700
3.15	25	1879.999986	0.70	4700
2.7 (End Point)	25	1879.999992	7.38	4700

Reference Frequency: LTE B2 Mid Channel			1880.0	MHz 1.4M 16 QAM CH 18900
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
4.25	25	1879.999981	1.20	4700
3.7	25	1879.999980	0.00	4700
3.15	25	1879.999985	5.60	4700
2.7 (End Point)	25	1879.999998	18.40	4700

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Reference Frequency: LTE B2 Mid Channel			1880.0	MHz 3M QPSK CH 18900
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
4.25	25	1879.999986	-1.10	4700
3.7	25	1879.999987	0.00	4700
3.15	25	1879.999989	2.10	4700
2.85 (End Point)	25	1879.999991	4.20	4700

Reference Frequency: LTE B2 Mid Channel			1880.0	MHz 3M 16 QAM CH 18900
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
4.25	25	1879.999982	1.80	4700
3.7	25	1879.999980	0.00	4700
3.15	25	1879.999986	5.80	4700
2.85 (End Point)	25	1879.999997	17.20	4700

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Reference Frequency: LTE B2 Mid Channel			1880.0	MHz 5M QPSK CH 18900
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
4.25	25	1879.999985	-2.80	4700
3.7	25	1879.999988	0.00	4700
3.15	25	1879.999989	1.20	4700
2.85 (End Point)	25	1879.999994	5.50	4700

Reference Frequency: LTE B2 Mid Channel			1880.0	MHz 5M 16 QAM CH 18900
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
4.25	25	1879.999990	-1.60	4700
3.7	25	1879.999992	0.00	4700
3.15	25	1879.999992	0.90	4700
2.85 (End Point)	25	1879.999992	0.20	4700

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Reference Frequency: LTE B2 Mid Channel			1880.0	MHz 10M QPSK CH 18900
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
4.25	25	1879.999982	-1.30	4700
3.7	25	1879.999984	0.00	4700
3.15	25	1879.999986	2.20	4700
2.85 (End Point)	25	1879.999994	10.90	4700

Reference Frequency: LTE B2 Mid Channel			1880.0	MHz 10M 16 QAM CH 18900
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
4.25	25	1879.999988	-1.70	4700
3.7	25	1879.999990	0.00	4700
3.15	25	1879.999991	0.80	4700
2.85 (End Point)	25	1879.999992	1.60	4700

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Reference Frequency: LTE B2 Mid Channel			1880.0	MHz 15M QPSK CH 18900
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
4.25	25	1879.999983	-3.80	4700
3.7	25	1879.999987	0.00	4700
3.15	25	1879.999987	0.90	4700
2.85 (End Point)	25	1879.999994	7.70	4700

Reference Frequency: LTE B2 Mid Channel			1880.0	MHz 15M 16 QAM CH 18900
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
4.25	25	1879.999989	0.50	4700
3.7	25	1879.999989	0.00	4700
3.15	25	1879.999990	1.70	4700
2.85 (End Point)	25	1879.999992	2.90	4700

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Reference Frequency: LTE B2 Mid Channel			1880.0	MHz 20M QPSK CH 18900
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
4.25	25	1879.999984	1.10	4700
3.7	25	1879.999982	0.00	4700
3.15	25	1879.999984	1.30	4700
2.85 (End Point)	25	1879.999989	6.40	4700

Reference Frequency: LTE B2 Mid Channel			1880.0	MHz 20M 16 QAM CH 18900
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
4.25	25	1879.999989	-0.90	4700
3.7	25	1879.999989	0.00	4700
3.15	25	1879.999990	0.90	4700
2.85 (End Point)	25	1879.999991	1.80	4700

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Reference Frequency: LTE B5 Mid Channel			836.5	MHz 1.4M QPSK CH 20525
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
4.25	25	836.499991	5.60	2091
3.7	25	836.499985	0.00	2091
3.15	25	836.499983	-2.20	2091
2.7 (End Point)	25	836.500007	22.10	2091

Reference Frequency: LTE B5 Mid Channel			836.5	MHz 1.4M 16 QAM CH 20525
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
4.25	25	836.499988	-2.10	2091
3.7	25	836.499990	0.00	2091
3.15	25	836.499987	-2.50	2091
2.7 (End Point)	25	836.500003	13.60	2091

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Reference Frequency: LTE B5 Mid Channel			836.5	MHz 3M QPSK CH 20525
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
4.25	25	836.499989	-1.70	2091
3.7	25	836.499990	0.00	2091
3.15	25	836.499990	-0.30	2091
2.85 (End Point)	25	836.500006	16.20	2091

Reference Frequency: LTE B5 Mid Channel			836.5	MHz 3M 16 QAM CH 20525
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
4.25	25	836.499986	-1.90	2091
3.7	25	836.499988	0.00	2091
3.15	25	836.499989	1.60	2091
2.85 (End Point)	25	836.500007	19.20	2091

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Reference Frequency: LTE B5 Mid Channel			836.5	MHz 5M QPSK CH 20525
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
	Temperature ()	(MHz)		
4.25	25	836.499985	-1.30	2091
3.7	25	836.499987	0.00	2091
3.15	25	836.499991	4.40	2091
2.85 (End Point)	25	836.500007	20.80	2091

Reference Frequency: LTE B5 Mid Channel			836.5	MHz 5M 16 QAM CH 20525
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
	Temperature ()	(MHz)		
4.25	25	836.499986	-1.40	2091
3.7	25	836.499987	0.00	2091
3.15	25	836.499993	5.70	2091
2.85 (End Point)	25	836.500006	18.80	2091

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Reference Frequency: LTE B5 Mid Channel			836.5	MHz 10M QPSK CH 20525
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
4.25	25	836.499986	-3.00	2091
3.7	25	836.499989	0.00	2091
3.15	25	836.499990	0.80	2091
2.85 (End Point)	25	836.500006	17.40	2091

Reference Frequency: LTE B5 Mid Channel			836.5	MHz 1.4M 16 QAM CH 20525
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
4.25	25	836.499986	-1.60	2091
3.7	25	836.499988	0.00	2091
3.15	25	836.499991	3.60	2091
2.85 (End Point)	25	836.500007	18.80	2091

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Reference Frequency: LTE B4 Mid Channel			1732.5	MHz 1.4M QPSK CH 20175
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
4.25	25	1732.499985	-2.50	4331
3.7	25	1732.499988	0.00	4331
3.15	25	1732.499982	-5.90	4331
2.8 (End Point)	25	1732.499999	11.20	4331

Reference Frequency: LTE B4 Mid Channel			1732.5	MHz 1.4M 16 QAM CH 20175
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
4.25	25	1732.499981	-1.40	4331
3.7	25	1732.499983	0.00	4331
3.15	25	1732.499990	7.00	4331
2.8 (End Point)	25	1732.499999	16.30	4331

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Reference Frequency: LTE B4 Mid Channel			1732.5	MHz 3M QPSK CH 20175
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
	Temperature ()	(MHz)		
4.25	25	1732.499994	7.20	4331
3.7	25	1732.499987	0.00	4331
3.15	25	1732.499996	8.50	4331
2.85 (End Point)	25	1732.499989	2.00	4331

Reference Frequency: LTE B4 Mid Channel			1732.5	MHz 3M 16 QAM CH 20175
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
	Temperature ()	(MHz)		
4.25	25	1732.499995	-4.20	4331
3.7	25	1732.499999	0.00	4331
3.15	25	1732.499988	-11.00	4331
2.85 (End Point)	25	1732.500003	3.50	4331

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Reference Frequency: LTE B4 Mid Channel			1732.5	MHz 5M QPSK CH 20175
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
4.25	25	1732.499997	2.10	4331
3.7	25	1732.499995	0.00	4331
3.15	25	1732.499994	-0.90	4331
2.85 (End Point)	25	1732.499999	4.50	4331

Reference Frequency: LTE B4 Mid Channel			1732.5	MHz 5M 16 QAM CH 20175
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
4.25	25	1732.499993	-2.60	4331
3.7	25	1732.499996	0.00	4331
3.15	25	1732.499993	-2.40	4331
2.85 (End Point)	25	1732.499992	-3.30	4331

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Reference Frequency: LTE B4 Mid Channel			1732.5	MHz 10M QPSK CH 20175
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
4.25	25	1732.499999	2.90	4331
3.7	25	1732.499996	0.00	4331
3.15	25	1732.499995	-1.10	4331
2.85 (End Point)	25	1732.500004	8.20	4331

Reference Frequency: LTE B4 Mid Channel			1732.5	MHz 10M 16 QAM CH 20175
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
4.25	25	1732.500008	5.00	4331
3.7	25	1732.500003	0.00	4331
3.15	25	1732.500002	-1.30	4331
2.85 (End Point)	25	1732.499998	-5.00	4331

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Reference Frequency: LTE B4 Mid Channel			1732.5	MHz 15M QPSK CH 20175
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
	Temperature ()	(MHz)		
4.25	25	1732.500005	-2.40	4331
3.7	25	1732.500007	0.00	4331
3.15	25	1732.499999	-8.40	4331
2.85 (End Point)	25	1732.499997	-10.40	4331

Reference Frequency: LTE B4 Mid Channel			1732.5	MHz 15M 16 QAM CH 20175
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
	Temperature ()	(MHz)		
4.25	25	1732.500002	8.00	4331
3.7	25	1732.499994	0.00	4331
3.15	25	1732.500002	7.50	4331
2.85 (End Point)	25	1732.500003	9.00	4331

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Reference Frequency: LTE B4 Mid Channel			1732.5	MHz 20M QPSK CH 20175
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
	Temperature ()	(MHz)		
4.25	25	1732.500005	17.10	4331
3.7	25	1732.499988	0.00	4331
3.15	25	1732.500003	15.10	4331
2.85 (End Point)	25	1732.500006	18.20	4331

Reference Frequency: LTE B4 Mid Channel			1732.5	MHz 20M 16 QAM CH 20175
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
	Temperature ()	(MHz)		
4.25	25	1732.500004	4.90	4331
3.7	25	1732.499999	0.00	4331
3.15	25	1732.499997	-2.00	4331
2.85 (End Point)	25	1732.499998	-1.50	4331

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Reference Frequency: LTE B7 Mid Channel			2535.0	MHz 5M QPSK CH 21100
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
4.25	25	2535.000003	-1.20	6338
3.7	25	2535.000004	0.00	6338
3.15	25	2535.000004	-0.50	6338
2.6 (End Point)	25	2535.000001	-2.80	6338

Reference Frequency: LTE B7 Mid Channel			2535.0	MHz 5M 16 QAM CH 21100
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
4.25	25	2535.000004	3.80	6338
3.7	25	2535.000001	0.00	6338
3.15	25	2535.000001	0.60	6338
2.6 (End Point)	25	2535.000006	5.80	6338

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Reference Frequency: LTE B7 Mid Channel			2535.0	MHz 10M QPSK CH 21100
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
4.25	25	2535.000013	9.00	6338
3.7	25	2535.000004	0.00	6338
3.15	25	2534.999997	-7.10	6338
2.85 (End Point)	25	2535.000003	-1.50	6338

Reference Frequency: LTE B7 Mid Channel			2535.0	MHz 1.4M 16 QAM CH 21100
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
4.25	25	2534.999994	-9.90	6338
3.7	25	2535.000004	0.00	6338
3.15	25	2535.000005	1.10	6338
2.85 (End Point)	25	2535.000012	8.10	6338

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Reference Frequency: LTE B7 Mid Channel			2535.0	MHz 15M QPSK CH 21100
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
	Temperature ()	(MHz)		
4.25	25	2535.000004	-3.50	6338
3.7	25	2535.000007	0.00	6338
3.15	25	2535.000004	-3.30	6338
2.85 (End Point)	25	2534.999994	-13.30	6338

Reference Frequency: LTE B7 Mid Channel			2535.0	MHz 15M 16 QAM CH 21100
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
	Temperature ()	(MHz)		
4.25	25	2535.000005	14.00	6338
3.7	25	2534.999991	0.00	6338
3.15	25	2535.000008	17.20	6338
2.85 (End Point)	25	2534.999994	3.00	6338

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Reference Frequency: LTE B7 Mid Channel			2535.0	MHz 20M QPSK CH 21100
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
	Temperature ()	(MHz)		
4.25	25	2535.000010	16.10	6338
3.7	25	2534.999994	0.00	6338
3.15	25	2534.999991	-2.70	6338
2.85 (End Point)	25	2535.000002	8.10	6338

Reference Frequency: LTE B7 Mid Channel			2535.0	MHz 20M 16 QAM CH 21100
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
	Temperature ()	(MHz)		
4.25	25	2535.000004	13.40	6338
3.7	25	2534.999991	0.00	6338
3.15	25	2534.999995	4.30	6338
2.85 (End Point)	25	2535.000005	14.00	6338

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Reference Frequency:		LTE B17 Mid Channel	710.0	MHz	5M QPSK CH 23790
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency		Delta (Hz)	Limit (Hz)
		(MHz)			
4.25	25	710.000004		-0.20	1775
3.7	25	710.000004		0.00	1775
3.15	25	710.000003		-1.00	1775
2.7 (End Point)	25	710.000006		2.20	1775

Reference Frequency:		LTE B17 Mid Channel	710.0	MHz	5M 16 QAM CH 23790
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency		Delta (Hz)	Limit (Hz)
		(MHz)			
4.25	25	710.000007		4.00	1775
3.7	25	710.000003		0.00	1775
3.15	25	710.000003		0.20	1775
2.6 (End Point)	25	710.000001		-1.30	1775

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Reference Frequency:			LTE B17 Mid Channel	710.0	MHz	10M QPSK CH 23790
Power Sup- ply	Environment	Frequency	Limit: +/- 2.5 ppm = Hz			
			Delta (Hz)	Limit (Hz)		
Vdc	Temperature ()	(MHz)				
4.25	25	710.000006	1.30		1775	
3.7	25	710.000005	0.00		1775	
3.15	25	709.999993	-12.40		1775	
2.85 (End Point)	25	709.999992	-13.00		1775	

Reference Frequency:			LTE B17 Mid Channel	710.0	MHz	1.4M 16 QAM CH 23790
Power Sup- ply	Environment	Frequency	Limit: +/- 2.5 ppm = Hz			
			Delta (Hz)	Limit (Hz)		
Vdc	Temperature ()	(MHz)				
4.25	25	710.000006	13.50		1775	
3.7	25	709.999992	0.00		1775	
3.15	25	710.000005	12.80		1775	
2.85 (End Point)	25	709.999989	-3.00		1775	

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14. Maximum Permissible Exposure (MPE)

14.1. Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended to comply with § 2.1091 radiofrequency radiation exposure evaluation: mobile devices of the FCC CFR 47 Rules, CFR 1.1310 (b) Radio frequency Radiation Exposure Requirement.

14.2. Special Accessories

Not available for this EUT intended for grant.

14.3. Equipment Modifications

Not available for this EUT intended for grant.

14.4. Limitation

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (minute)
Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	F/1500	30
1500-15000	/	/	1.0	30

F = frequency in MHz

* = Plane-wave equipment power density

Frequency Range (MHz)	Electric Field (V/m rms)	Magnetic Field (A/m rms)	Power Density (W/m ²)	Averaging Time (minutes)
0.003-1	280	2.19	-	6
1-10	280/f	2.19/f	-	6
10-30	28	2.19/f	-	6
30-300	28	0.073	2*	6
300-1500	1.585 f ^{0.5}	0.0042 f ^{0.5}	f/150	6
1500-15000	61.4	0.163	10	6
15000-150000	61.4	0.163	10	616000/f ^{1.2}
150000-300000	0.158 f ^{0.5}	4.21 x 10 ⁻⁴ f ^{0.5}	6.67 x 10 ⁻⁵ f	616000/f ^{1.2}

Note: f is frequency in MHz.

* Power density limit is applicable at frequencies greater than 100 MHz.

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14.5. Maximum Permissible Exposure (MPE) Evaluation

The evaluation and calculation as deduces below presents only worst-case that produces highest value of the result:

Operation Configuration of the Worst-Case picked up to evaluate:

GSM 850 / 1900, HSDPA II, HSUPA V

LTE BAND 2

Transmission Band Width: 1.4M, Modulation: 16QAM, RB allocation: 1 offset: 5

LTE BAND 5

Transmission Band Width: 1.4M, Modulation: 16QAM, RB allocation: 1 offset: 5

LTE BAND 4

Transmission Band Width: 15M, Modulation: QPSK, RB allocation: 1 offset: 0

LTE BAND 7

Transmission Band Width: 5M, Modulation: 16QAM, RB allocation: 1 offset: 24

LTE BAND 17

Transmission Band Width: 5M, Modulation: 16QAM, RB allocation: 1 offset: 0

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Operation in GSM850 band (824.2 – 848.8 MHz)

The ERP of NB105 NGFF WWAN MODULE in GSM850 band is 28.19dBm. max. The resulted power density at a distance of 20 cm can be deducted as follows:

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
GSM 850	824.2	128	V	27.02	3.91	-3.03	27.89	38.45
			H	19.47	3.91	-3.03	20.35	38.45
	836.6	190	V	27.37	3.89	-3.07	28.19	38.45
			H	21.52	3.89	-3.07	22.34	38.45
	848.8	251	V	26.96	3.87	-3.11	27.72	38.45
			H	21.47	3.87	-3.11	22.24	38.45

$$\text{ERP} = 28.19\text{dBm} = 659.174\text{mW}$$

$$\text{Power Density} = \text{EIRP} * \text{Duty Cycle} / (4 * \pi * R^2)$$
$$= 659.174 * 0.125 / (4 * \pi * 20^2) = 0.01640\text{mW/cm}^2$$

where Duty Cycle is 0.125 for GSM850 band operation and R is 20 cm.

The MPE limit for General Population/Uncontrolled Exposure is referred to in section 14.4, and it is,

$$\text{MPE limit} = 0.5773\text{mW/cm}^2$$

The resulted power density is below the limit of MPE, and therefore NB105 NGFF WWAN MODULE in GSM850 band is compliant with the FCC rules on RF exposure.

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Operation in GSM1900 band (1850.2 – 1909.8 MHz)

The EIRP of NB105 NGFF WWAN MODULE in GSM1900 band is 26.54dBm. max. The resulted power density at a distance of 20 cm can be deducted as follows:

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
GSM 1900	1850.2	512	V	23.58	5.08	-4.67	23.99	33.00
			H	22.10	5.08	-4.67	22.51	33.00
	1880.0	661	V	26.24	5	-4.7	26.54	33.00
			H	21.31	5	-4.7	21.61	33.00
	1909.8	810	V	25.42	4.92	-4.74	25.61	33.00
			H	21.49	4.92	-4.74	21.68	33.00

$$\text{EIRP} = 26.54\text{dBm} = 450.817\text{mW}$$

$$\text{Power Density} = \text{EIRP} * \text{Duty Cycle} / (4 * \pi * R^2)$$
$$= 450.817 * 0.125 / (4 * \pi * 20^2) = 0.00685\text{mW/cm}^2$$

where Duty Cycle is 0.125 for GSM1900 band operation and R is 20 cm.

The MPE limit for General Population/Uncontrolled Exposure is referred to in section 14.4, and it is,

$$\text{MPE limit} = 1.0\text{mW/cm}^2$$

The resulted power density is below the limit of MPE, and therefore NB105 NGFF WWAN MODULE in GSM1900 band is compliant with the FCC rules on RF exposure.

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Operation in HSDPA II band (1852.4 – 1907.6 MHz)

The EIRP of NB105 NGFF WWAN MODULE in HSDPA II band is 25.43dBm. max. The resulted power density at a distance of 20 cm can be deducted as follows:

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
HSDPA B2	1852.4	9262	V	25.03	5.07	-4.67	25.43	33.00
			H	19.56	5.07	-4.67	19.96	33.00
	1880.0	9400	V	23.21	5	-4.7	23.51	33.00
			H	18.31	5	-4.7	18.60	33.00
	1907.6	9538	V	22.70	4.93	-4.74	22.90	33.00
			H	18.91	4.93	-4.74	19.10	33.00

$$\text{EIRP} = 25.43\text{dBm} = 349.140\text{mW}$$

$$\text{Power Density} = \text{EIRP} * \text{Duty Cycle} / (4 * \pi * R^2)$$
$$= 349.140 * 1 / (4 * \pi * 20^2) = 0.06949\text{mW/cm}^2$$

where Duty Cycle is 1 for HSDPA II band operation and R is 20 cm.

The MPE limit for General Population/Uncontrolled Exposure is referred to in section 14.4, and it is,

$$\text{MPE limit} = 1.0\text{mW/cm}^2$$

The resulted power density is below the limit of MPE, and therefore NB105 NGFF WWAN MODULE in HSDPA II band is compliant with the FCC rules on RF exposure.

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Operation in HSUPA V band (826.4 – 846.6 MHz)

The ERP of NB105 NGFF WWAN MODULE in HSUPA V band is 24.91dBm. max. The resulted power density at a distance of 20 cm can be deducted as follows:

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
HSUPA B5	826.4	4132	V	23.69	3.9	-3.03	24.56	38.45
			H	20.9	3.9	-3.03	21.77	38.45
	836.6	4183	V	23.85	3.89	-3.07	24.67	38.45
			H	20.54	3.89	-3.07	21.36	38.45
	846.6	4233	V	24.13	3.88	-3.1	24.91	38.45
			H	20.40	3.87	-3.1	21.17	38.45

$$\text{ERP} = 24.91\text{dBm} = 309.742\text{mW}$$

$$\text{Power Density} = \text{EIRP} * \text{Duty Cycle} / (4 * \pi * R^2)$$
$$= 309.742 * 1 / (4 * \pi * 20^2) = 0.06165\text{mW/cm}^2$$

where Duty Cycle is 1 for HSUPA V band operation and R is 20 cm.

The MPE limit for General Population/Uncontrolled Exposure is referred to in section 14.4, and it is,

$$\text{MPE limit} = 0.5644\text{mW/cm}^2$$

The resulted power density is below the limit of MPE, and therefore NB105 NGFF WWAN MODULE in HSUPA V band is compliant with the FCC rules on RF exposure.

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Operation in LTE band 2 (1850.7 – 1909.3 MHz)

The EIRP of NB105 NGFF WWAN MODULE in LTE band 2, 1.4MHz /16QAM/RB 1 offset: 5 is 30.74dBm. max. The resulted power density at a distance of 20 cm can be deducted as follows:

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 2 BW: 1.4M 16QAM RB: 1,5	1850.7	18607	V	30.34	5.08	-4.67	30.74	33.00
			H	22.73	5.08	-4.67	23.13	33.00
	1880.0	18900	V	28.82	5	-4.7	29.12	33.00
			H	20.42	5	-4.7	20.71	33.00
	1909.3	19193	V	29.25	4.93	-4.74	29.44	33.00
			H	18.82	4.93	-4.74	19.01	33.00

$$\text{EIRP} = 30.74 \text{dBm} = 1185.767 \text{mW}$$

$$\text{Power Density} = \text{EIRP} * \text{Duty Cycle} / (4 \pi R^2)$$

$$= 1185.767 * 1 / (4 * \pi * 20^2) = 0.23602 \text{mW/cm}^2$$

where Duty Cycle is 1 for LTE band 2, 1.4MHz /16QAM/RB 1 offset: 0 operation and R is 20 cm.

The MPE limit for General Population/Uncontrolled Exposure is referred to in section 14.4, and it is,

$$\text{MPE limit} = 1.0 \text{mW/cm}^2$$

The resulted power density is below the limit of MPE, and therefore NB105 NGFF WWAN MODULE in LTE band 2 is compliant with the FCC rules on RF exposure.

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Operation in LTE band 5 (824.7 – 848.3 MHz)

The ERP of NB105 NGFF WWAN MODULE in LTE band 5, 1.4MHz /16QAM/RB 1 offset: 5 is 26.44dBm. max. The resulted power density at a distance of 20 cm can be deducted as follows:

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 5 BW: 1.4M 16QAM RB: 1,5	824.7	20407	V	25.56	3.91	-3.03	26.44	38.45
			H	23.29	3.91	-3.03	24.17	38.45
	836.5	20525	V	24.75	3.89	-3.07	25.57	38.45
			H	22.34	3.89	-3.07	23.17	38.45
	848.3	20643	V	23.83	3.87	-3.1	24.60	38.45
			H	22.82	3.87	-3.1	23.58	38.45

$$\text{ERP} = 26.44 \text{dBm} = 440.555 \text{mW}$$

$$\begin{aligned}\text{Power Density} &= \text{EIRP} * \text{Duty Cycle} / (4\pi R^2) \\ &= 440.555 * 1 / (4\pi * 20^2) = 0.08769 \text{mW/cm}^2\end{aligned}$$

where Duty Cycle is 1 for LTE band 5, 1.4MHz /16QAM/RB 1 offset: 0 operation and R is 20 cm.

The MPE limit for General Population/Uncontrolled Exposure is referred to in section 14.4, and it is,

$$\text{MPE limit} = 0.5498 \text{mW/cm}^2$$

The resulted power density is below the limit of MPE, and therefore NB105 NGFF WWAN MODULE in LTE band 5 is compliant with the FCC rules on RF exposure.

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Operation in LTE band 4 (1717.5 – 1747.5 MHz)

The EIRP of NB105 NGFF WWAN MODULE in LTE band 4, 15MHz /QPSK/RB 1 offset: 0 is 29.17dBm. max. The resulted power density at a distance of 20 cm can be deducted as follows:

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 4 BW: 15M QPSK RB: 1,0	1717.5	20025	V	25.32	5.46	-4.5	26.28	30.00
			H	22.58	5.46	-4.5	23.55	30.00
	1732.5	20175	V	28.27	5.42	-4.52	29.17	30.00
			H	22.69	5.42	-4.52	23.59	30.00
	1747.5	20325	V	26.38	5.38	-4.54	27.22	30.00
			H	22.12	5.38	-4.54	22.96	30.00

$$\text{EIRP} = 29.17\text{dBm} = 826.038\text{mW}$$

$$\begin{aligned}\text{Power Density} &= \text{EIRP} * \text{Duty Cycle} / (4 * \pi * R^2) \\ &= 826.038 * 1 / (4 * \pi * 20^2) = 0.16442\text{mW/cm}^2\end{aligned}$$

where Duty Cycle is 1 for LTE band 4, 15MHz /QPSK/RB 1 offset: 0 operation and R is 20 cm.

The MPE limit for General Population/Uncontrolled Exposure is referred to in section 14.4, and it is,

$$\text{MPE limit} = 1.0\text{mW/cm}^2$$

The resulted power density is below the limit of MPE, and therefore NB105 NGFF WWAN MODULE in LTE band 4 is compliant with the FCC rules on RF exposure.

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Operation in LTE band 7 (2502.5 – 2567.5 MHz)

The EIRP of NB105 NGFF WWAN MODULE in LTE band 7, 5MHz /16QAM/RB 1 offset: 24 is 24.30dBm. max. The resulted power density at a distance of 20 cm can be deducted as follows:

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 7 BW: 5M 16QAM RB: 1,24	2502.5	20775	V	23.98	5.81	-5.49	24.30	30.00
			H	18.74	5.81	-5.49	19.06	30.00
	2535.0	21100	V	22.81	5.87	-5.53	23.15	30.00
			H	18.88	5.87	-5.53	19.23	30.00
	2567.5	21425	V	23.57	5.93	-5.57	23.93	30.00
			H	16.67	5.93	-5.57	17.03	30.00

$$\text{EIRP} = 24.30 \text{dBm} = 269.153 \text{mW}$$

$$\text{Power Density} = \text{EIRP} * \text{Duty Cycle} / (4 \pi R^2)$$

$$= 269.153 * 1 / (4 \pi * 20^2) = 0.05357 \text{mW/cm}^2$$

where Duty Cycle is 1 for LTE band 7, 5MHz /16QAM/RB 1 offset: 24 operation and R is 20 cm.

The MPE limit for General Population/Uncontrolled Exposure is referred to in section 14.4, and it is,

$$\text{MPE limit} = 1.0 \text{mW/cm}^2$$

The resulted power density is below the limit of MPE, and therefore NB105 NGFF WWAN MODULE in LTE band 7 is compliant with the FCC rules on RF exposure.

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Operation in LTE band 17 (706.5 – 713.5 MHz)

The ERP of NB105 NGFF WWAN MODULE in LTE band 17, 5MHz /16QAM/RB 1 offset: 0 is 25.13dBm max. The resulted power density at a distance of 20 cm can be deducted as follows:

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 17 BW: 5M 16QAM RB: 1,0	706.5	23755	V	22.30	3.86	-2.75	23.42	34.69
			H	14.92	3.86	-2.75	16.03	34.69
	710.0	23790	V	24.04	3.85	-2.76	25.13	34.69
			H	16.14	3.85	-2.76	17.24	34.69
	713.5	23825	V	22.68	3.84	-2.76	23.76	34.69
			H	15.55	3.84	-2.76	16.62	34.69

$$\text{ERP} = 25.13 \text{dBm} = 325.8371 \text{mW}$$

$$\text{Power Density} = \text{ERP} * \text{Duty Cycle} / (4 \pi R^2)$$

$$= 325.837 * 1 / (4 * \pi * 20^2) = 0.064856 \text{mW/cm}^2$$

where Duty Cycle is 1 for LTE band 17, 5MHz /16QAM/RB 1 offset: 0 operation and R is 20 cm.

The MPE limit for General Population/Uncontrolled Exposure is referred to in section 14.4, and it is,

$$\text{MPE limit} = 0.47 \text{mW/cm}^2$$

The resulted power density is below the limit of MPE, and therefore NB105 NGFF WWAN MODULE in LTE band 17 is compliant with the FCC rules on RF exposure.

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15. The Derivation of Maximum Allowable Gain

15.1. The Justification How Gain is Derived:

This submittal(s) (test report) is intended to comply with Section Part 22, subpart H and Part 24, subpart E of the FCC CFR 47 Rules. As per FCC's ruling part, 1.1310, the power density limit for General Population/Uncontrolled Exposure is $f/1500$ mW/cm² through 300MHz to 1500MHz, and 1.0 mW/cm² through 1.5 GHz to 100 GHz, respectively. Since this related application is characterized as mobile application as defined by FCC, the MPE is obtained at 20cm in determination for its compliance with the power density limit.

The formula listing as follows is applied in determination of Power Density:

$$S = (P * G) / (4 * \pi * R^2)$$

Where,

S = Power Density

P = Conducted Output Power Measured at Antenna Port

G = Gain of Maximum Transmitting Antenna (linear gain)

R = Separating Distance from Transmitting Antenna

This related radio application is classified as mobile device in operation of general population / uncontrolled exposure condition.

Limitation

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (minute)
Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	F/1500	30
1500-15000	/	/	1.0	30

F = frequency in MHz

* = Plane-wave equipment power density

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15.2. Maximum Linear Gain Determination using MPE

Re-arrange the formula of Power Density in terms of maximum gain,

It yields,

$$G = S * (4 * R^2) / P$$

Where,

$S = F/1500$ mW/cm² (300-1500Mhz) or 1.0 mW/cm² (1.5GHz-100GHz)

P = Conducted Output Power Measured at Antenna Port with respect to applied band.

G = Maximum Linear Gain

$R = 20$ cm

Maximum Linear Gain Determination using ERP/EIRP

As per 22.913a) and 24.232 (b), 27.50 (d)(4), 27.50 (c)(9), 27.50 (h)(2) ERP/EIRP is limited as 7W, 2W, 1W, 30W, 2W, respectively. Maximum allowable gain that complies with them can be obtained by the following relationship.

EIRP/ERP = Maximum Allowable Gain + Maximum Burst Power as measured at antenna terminal.

Re-arrange the above equation in terms of Maximum Allowable Gain, *It yields,*

Maximum Allowable Gain = EIRP/ERP – Maximum Burst Power as measured at antenna terminal

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Conducted Power Measured at Antenna Terminal:

Frequency (MHz)	CH	1 Time Slot				2 Time Slot			
		GMSK Mode		8-PSK Mode		GMSK Mode		8-PSK Mode	
		Peak Power (dBm)	AV Power (dBm)	Peak Power (dBm)	AV Power (dBm)	Peak Power (dBm)	AV Power (dBm)	Peak Power (dBm)	AV Power (dBm)
824.2	128	32.60	32.50	30.00	27.00	29.50	29.40	26.80	23.50
836.6	190	32.60	32.50	29.70	26.60	29.50	29.40	26.40	23.10
848.8	251	32.60	32.50	29.80	26.80	29.60	29.40	26.40	23.10
1850.2	512	28.70	28.50	28.20	25.20	26.10	25.90	25.00	21.60
1880.0	661	28.60	28.50	28.20	25.10	26.00	25.80	24.90	21.50
1909.8	810	28.60	28.40	27.70	24.50	25.80	25.70	24.30	21.00

Frequency (MHz)	CH	3 Time Slot				4 Time Slot			
		GMSK Mode		8-PSK Mode		GMSK Mode		8-PSK Mode	
		Peak Power (dBm)	AV Power (dBm)	Peak Power (dBm)	AV Power (dBm)	Peak Power (dBm)	AV Power (dBm)	Peak Power (dBm)	AV Power (dBm)
824.2	128	27.60	27.50	24.70	21.30	26.50	26.40	23.40	20.00
836.6	190	27.70	27.60	24.20	21.00	26.50	26.40	22.90	19.60
848.8	251	28.70	27.60	24.40	21.20	26.60	26.40	23.20	19.80
1850.2	512	24.20	24.10	23.60	20.10	23.10	22.90	22.20	18.80
1880.0	661	24.10	24.00	23.50	20.00	22.90	22.80	22.30	18.90
1909.8	810	24.00	23.80	22.90	19.40	22.80	22.60	21.70	18.20

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Maximum Source-Based Time Average Power calculated by Time-Slot Factor:

Frequency (MHz)	CH	1 Time Slot		2 Time Slot	
		GMSK Mode	8-PSK Mode	GMSK Mode	8-PSK Mode
		AV Power (dBm)	AV Power (dBm)	AV Power (dBm)	AV Power (dBm)
824.2	128	23.5	18.0	23.4	17.5
836.6	190	23.5	17.6	23.4	17.1
848.8	251	23.5	17.8	23.4	17.1
1850.2	512	19.5	16.2	19.9	15.6
1880.0	661	19.5	16.1	19.8	15.5
1909.8	810	19.4	15.5	19.7	15.0

Frequency (MHz)	CH	3 Time Slot		4 Time Slot	
		GMSK Mode	8-PSK Mode	GMSK Mode	8-PSK Mode
		AV Power (dBm)	AV Power (dBm)	AV Power (dBm)	AV Power (dBm)
824.2	128	23.2	17.0	17.0	17.0
836.6	190	23.3	16.7	16.7	16.6
848.8	251	23.3	16.9	16.9	16.8
1850.2	512	19.8	15.8	15.8	15.8
1880.0	661	19.7	15.7	15.7	15.9
1909.8	810	19.5	15.1	15.1	15.2

Where,

Maximum Source-based Time Average is determined by “Burst Power” minus slot factor:

	1TX	2TX	3TX	4TX
power:	0.125	0.25	0.375	0.5
power (dBm):	-9.0309	-6.0206	-4.25969	-3.0103

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Maximum Source-based Time Average power for WCDMA mode:

Refer to page 32, 22.71dBm for band II, 23.41dBm for band V

Maximum Source-based Time Average power for LTE mode:

Refer to page 37, 24.76dBm (1902.5MHz) for band II, page 40, 24.25dBm (847.5MHz) for band 5, page 47 24.22dBm (1717.5MHz) for band 4, 23.67dBm (2502.5MHz) for band 7, page 53 for 24.30dBm (713.5MHz) for band 17

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15.3. The Computation of Maximum Allowable Linear Gain using MPE limit

Operation in cellular band (824 – 849 MHz)

Given the maximum source-based time-averaged power as 23.50dBm, and MPE limit as 0.55 mW/cm². Therefore, antenna gain is calculated as 12.34dBi

Operation in PCS band (1850 – 1910 MHz)

Given the maximum source-based time-averaged power as 19.9dBm, and MPE limit as 1 mW/cm². Therefore, antenna gain is calculated as 51.44dBi

Operation in WCDMA Band II (1850 – 1910MHz)

Given the maximum source-based time-averaged power as 22.71dBm, and MPE limit as 1.0 mW/cm². Therefore, antenna gain is calculated as 14.81dBi

Operation in WCDMA Band V (824 – 850MHz)

Given the maximum source-based time-averaged power as 23.41dBm, and MPE limit as 0.55 mW/cm². Therefore, antenna gain is calculated as 12.60dBi

Operation in LTE band II

Given the maximum source-based time-averaged power as 24.76dBm, and MPE limit as 1 mW/cm². Therefore, antenna gain is calculated as 16.80dBi

Operation in LTE band 5

Given the maximum source-based time-averaged power as 24.75dBm, and MPE limit as 0.57 mW/cm². Therefore, antenna gain is calculated as 9.51dBi

Operation in LTE band 4

Given the maximum source-based time-averaged power as 24.22dBm, and MPE limit as 1.0 mW/cm². Therefore, antenna gain is calculated as 19.02dBi

Operation in LTE band 7

Given the maximum source-based time-averaged power as 23.76dBm, and MPE limit as 1.0 mW/cm². Therefore, antenna gain is calculated as 21.59dBi

Operation in LTE band 17

Given the maximum source-based time-averaged power as 24.30dBm, and MPE limit as 0.48mW/cm². Therefore, antenna gain is calculated as 10.90dBi

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15.4. The Computation of Maximum Allowable Linear Gain using ERP/EIRP limit

Operation in cellular band (824 – 849 MHz)

Given the maximum burst power as 32.50dBm, and ERP limit as 7W

Therefore, antenna gain is calculated as 5.95dBi

Operation in PCS band (1850 – 1910 MHz)

Given the maximum burst power r as 28.50dBm, and EIRP limit as 2W

Therefore, antenna gain is calculated as 4.51dBi

Operation in WCDMA Band II (1850 – 1910MHz)

Given the maximum burst averaged power as 22.71dBm, and EIRP limit as 2W

Therefore, antenna gain is calculated as 10.30dBi

Operation in WCDMA Band V (824 – 850MHz)

Given the maximum burst power as 23.41dBm, and ERP limit as 7W

Therefore, antenna gain is calculated as 15.04dBi

Operation in LTE band II

Given the maximum source-based time-averaged power as 24.76dBm, and EIRP limit as 2W

Therefore, antenna gain is calculated as 8.25dBi

Operation in LTE band 5

Given the maximum source-based time-averaged power as 24.75dBm, and ERP limit as 7W

Therefore, antenna gain is calculated as 13.70dBi

Operation in LTE band 4

Given the maximum source-based time-averaged power as 24.22dBm, and EIRP limit as 1W.

Therefore, antenna gain is calculated as 5.78dBi

Operation in LTE band 7

Given the maximum source-based time-averaged power as 23.76dBm, and EIRP limit as 2W

Therefore, antenna gain is calculated as 9.25dBi

Operation in LTE band 17

Given the maximum source-based time-averaged power as 24.30dBm, and ERP limit as 30W

Therefore, antenna gain is calculated as 20.47dBi

~ End of Report ~

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