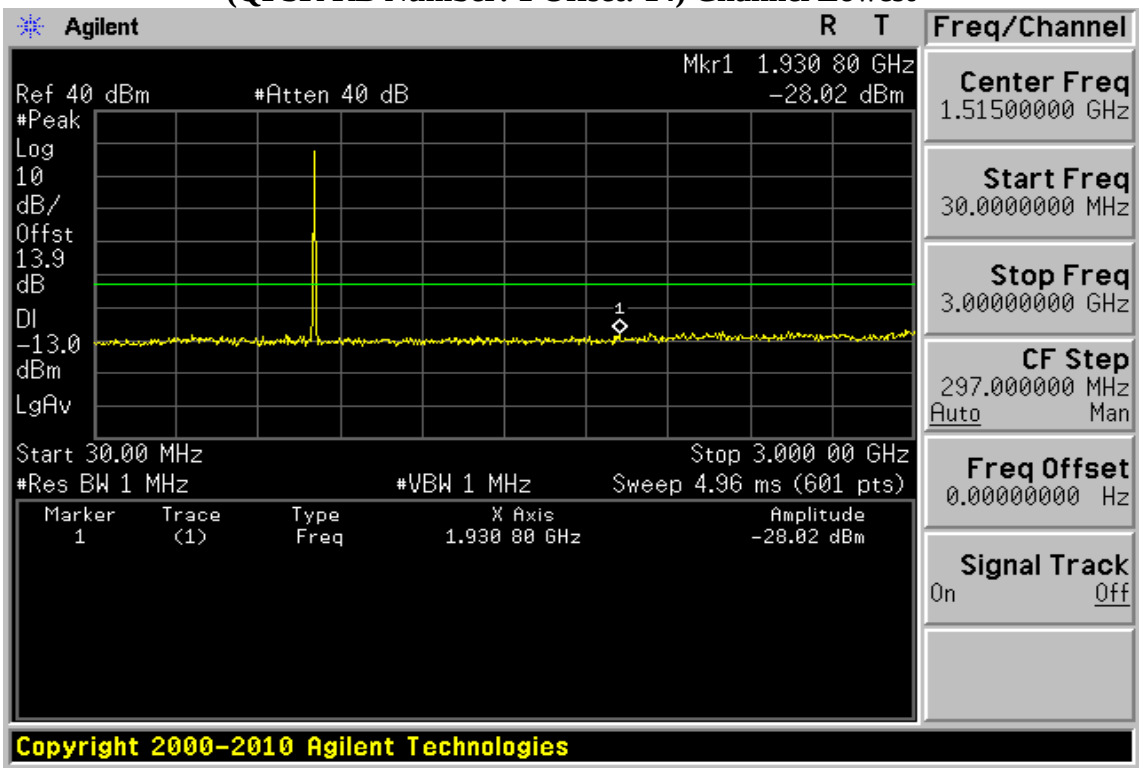
Figure 9-106: Out of Band emission at antenna terminals – 3MHz BW LTE-Band 26 (QPSK RB Number: 1 Offset: 14) Channel Lowest



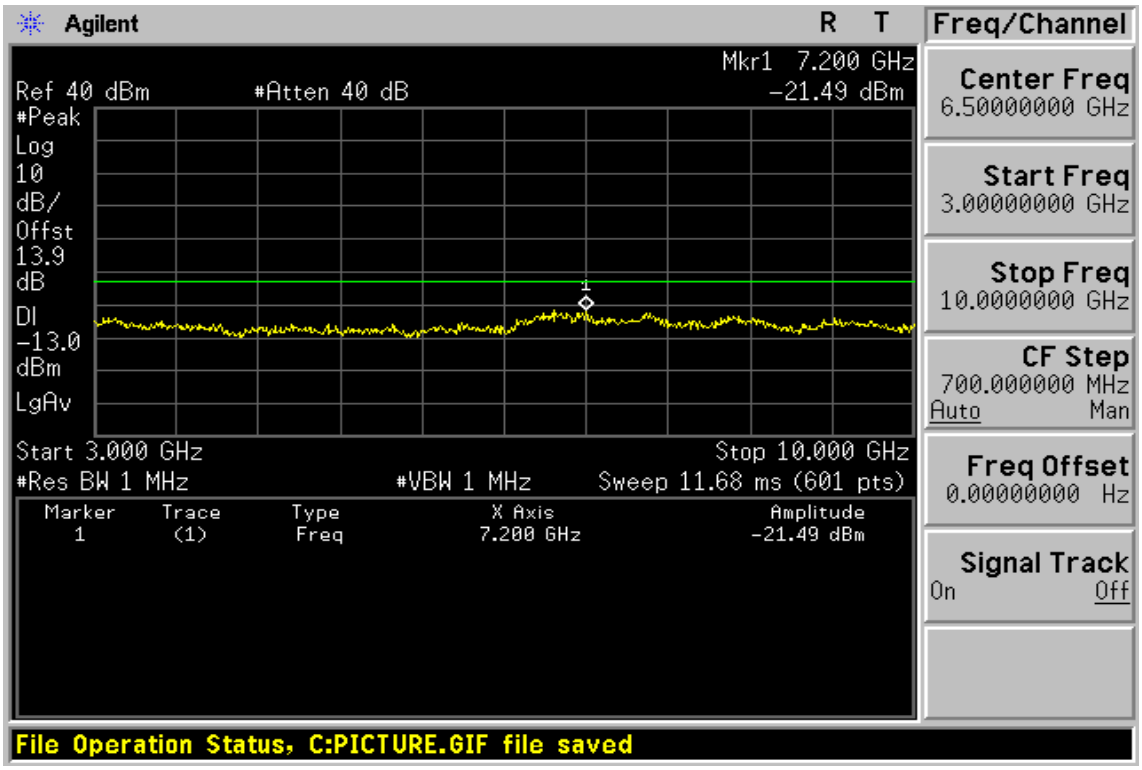


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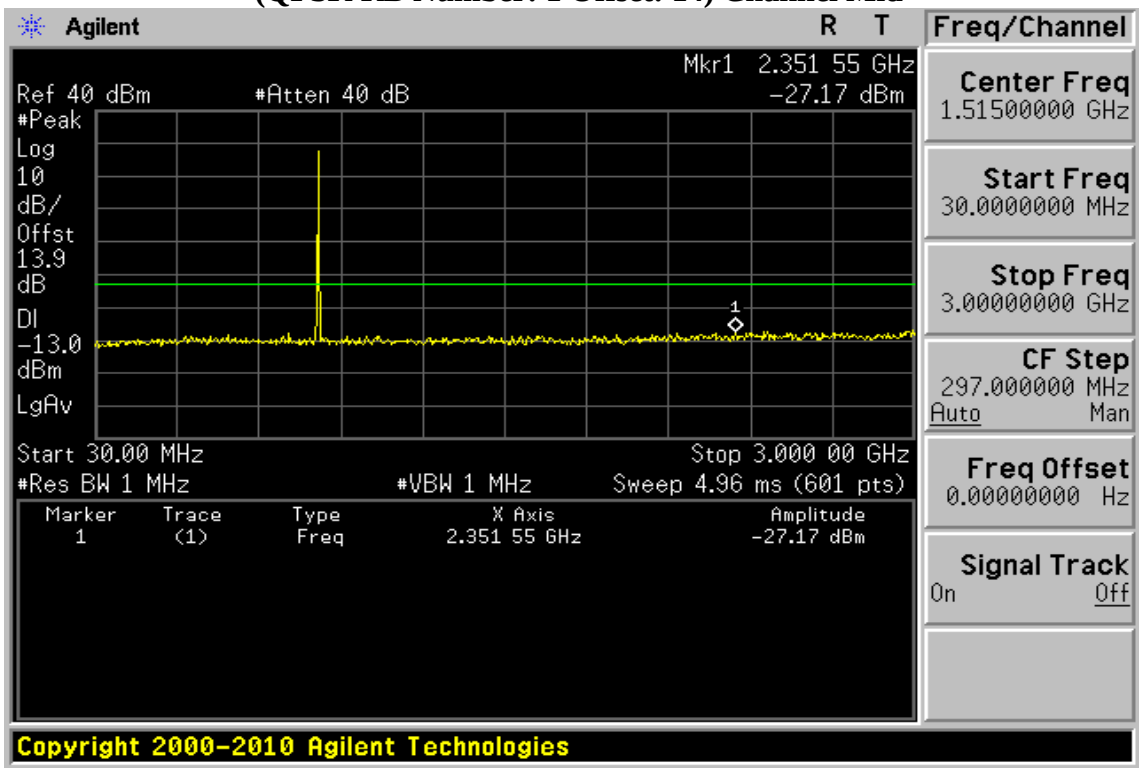
Figure 9-107: Out of Band emission at antenna terminals –3MHz BW LTE-Band 26 (QPSK RB Number: 1 Offset: 14) Channel Mid



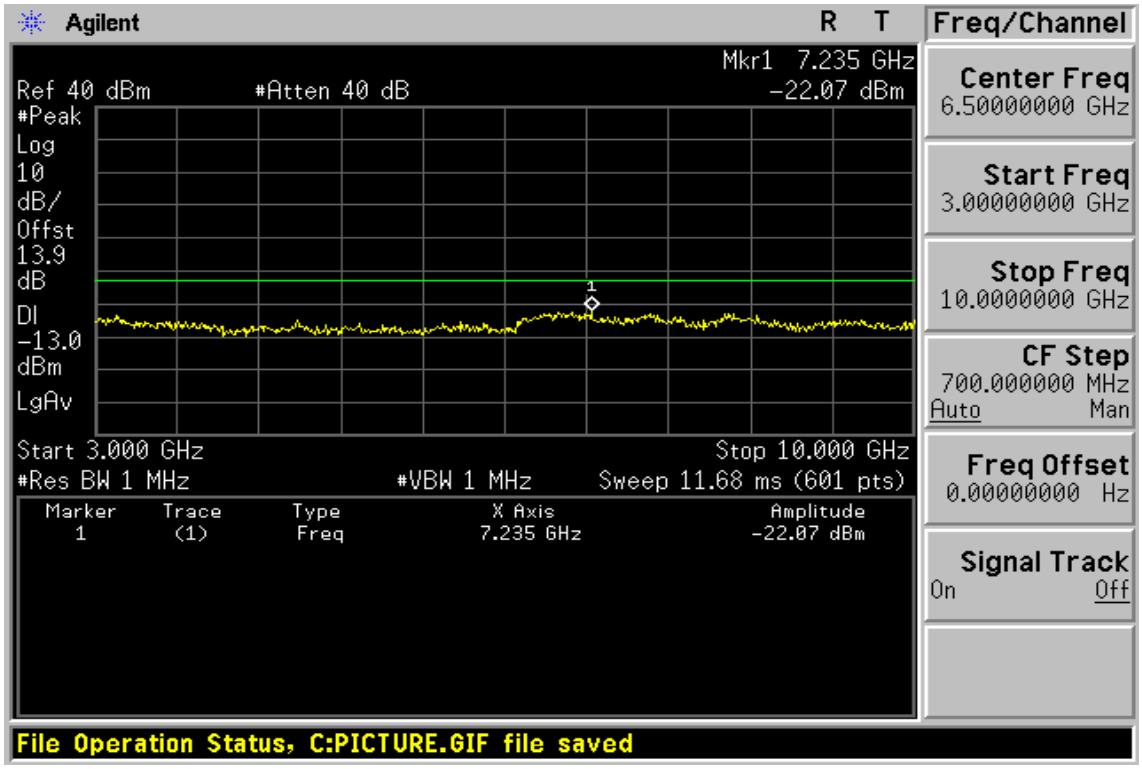


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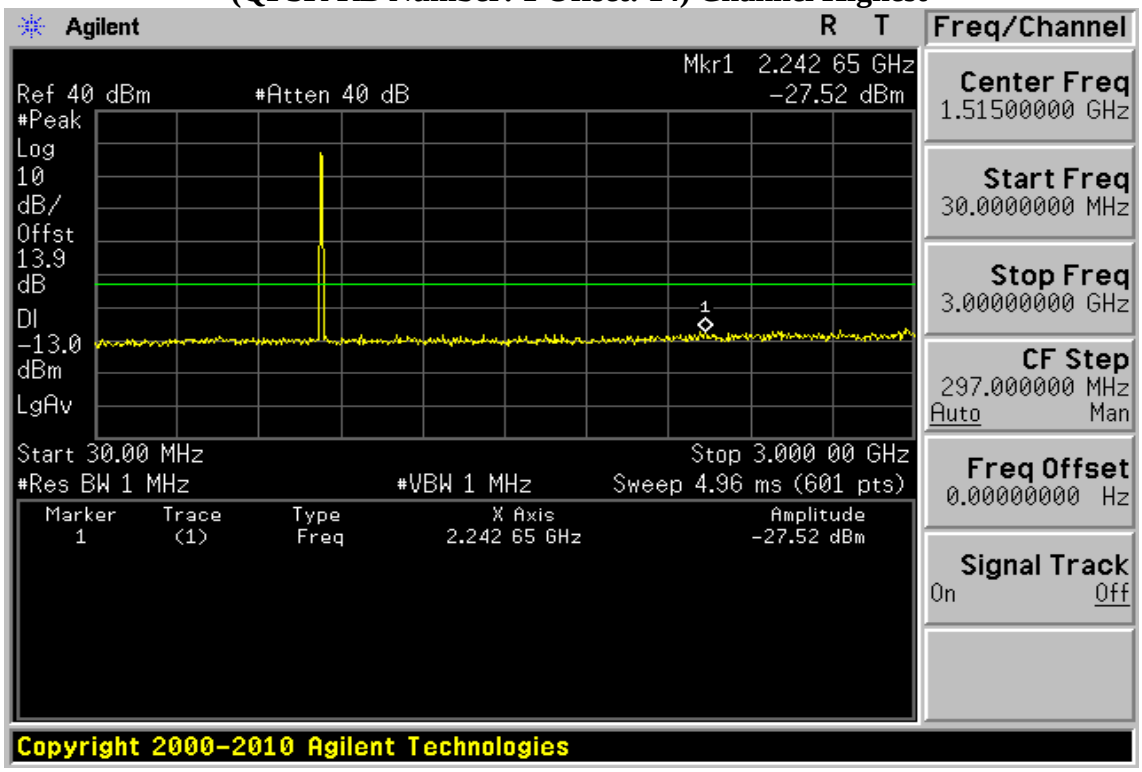
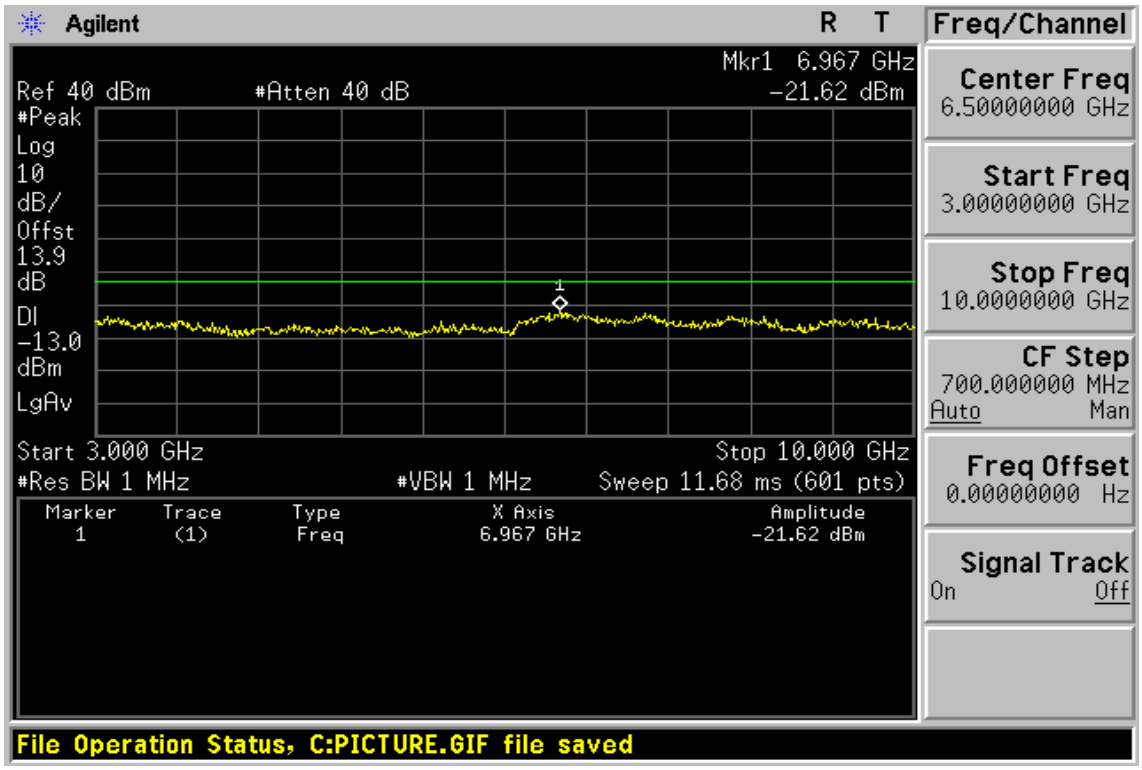
Figure 9-108: Out of Band emission at antenna terminals –3MHz BW LTE-Band 26 (QPSK RB Number: 1 Offset: 14) Channel Highest





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

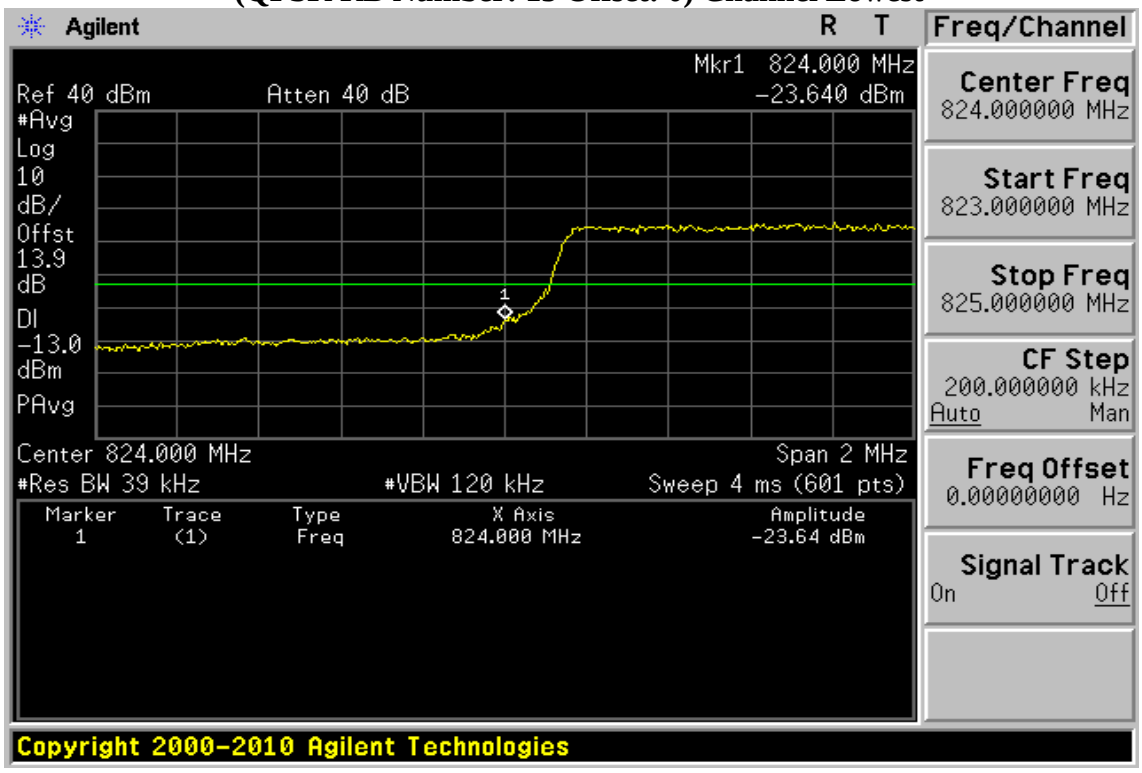

Figure 9-110: Band edge emission at antenna terminals –3MHz BW LTE-Band 26 (QPSK RB Number: 15 Offset: 0) Channel Highest

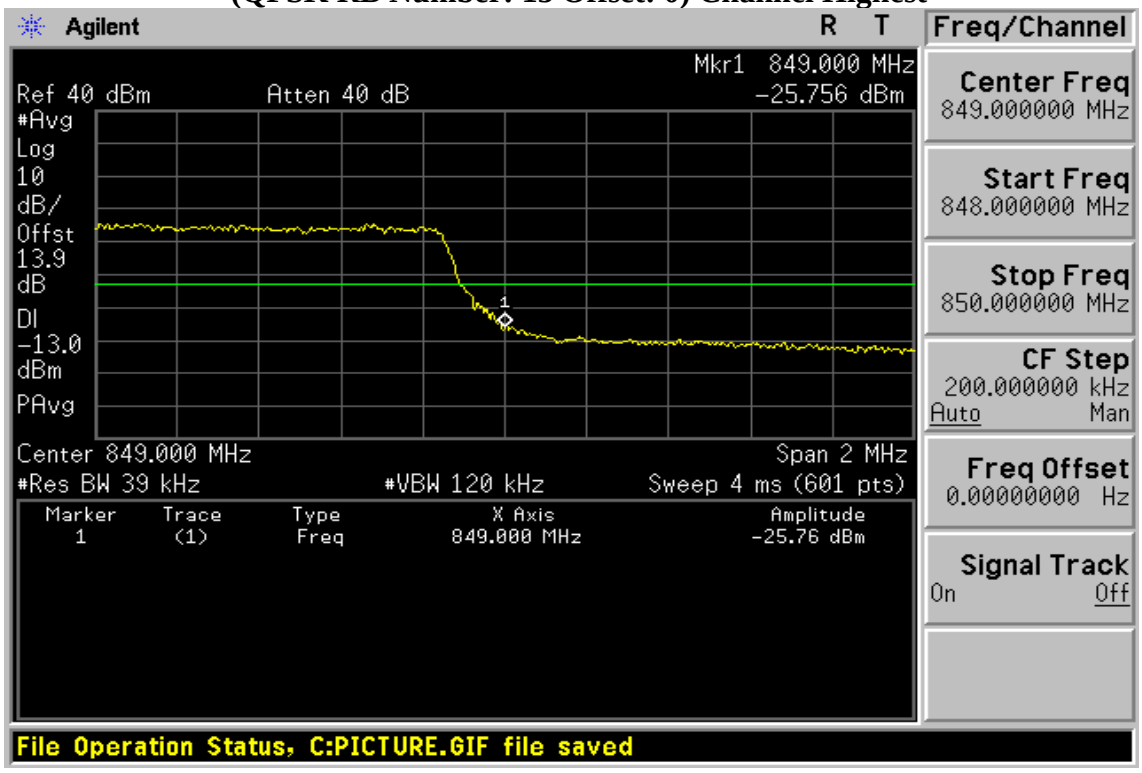

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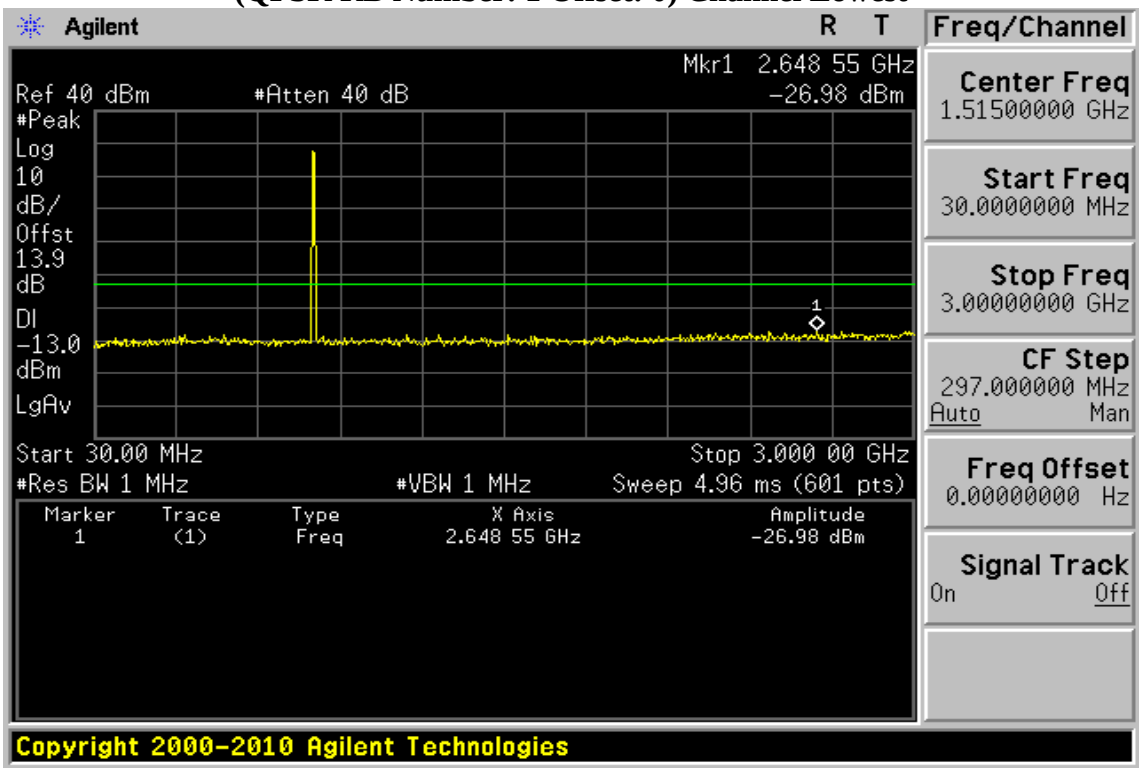
Figure 9-111: Out of Band emission at antenna terminals – 5MHz BW LTE-Band 26 (QPSK RB Number: 1 Offset: 0) Channel Lowest



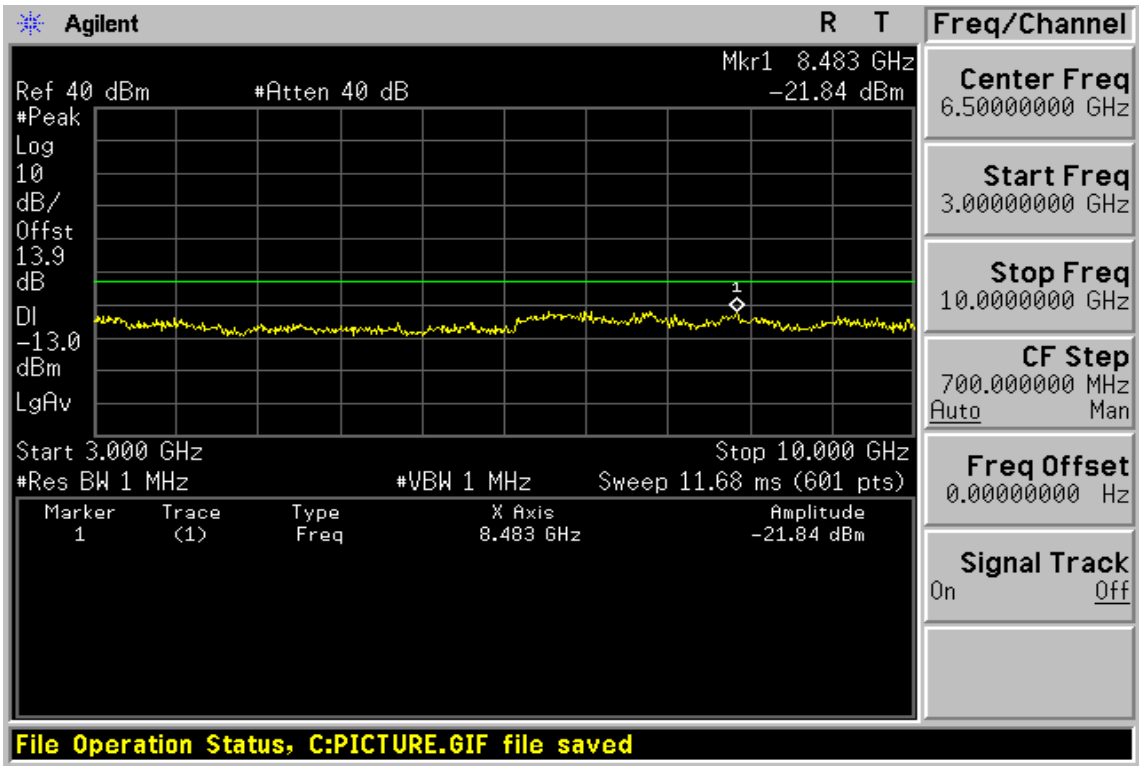


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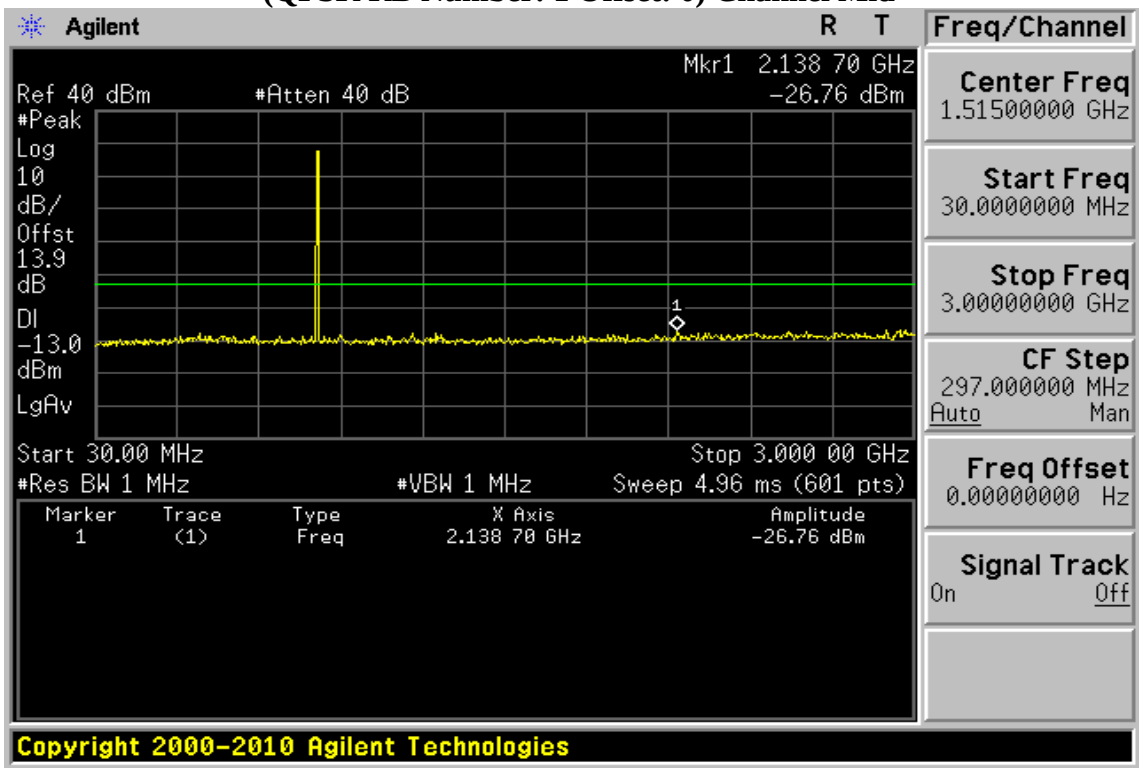
Figure 9-112: Out of Band emission at antenna terminals – 5MHz BW LTE-Band 26 (QPSK RB Number: 1 Offset: 0) Channel Mid



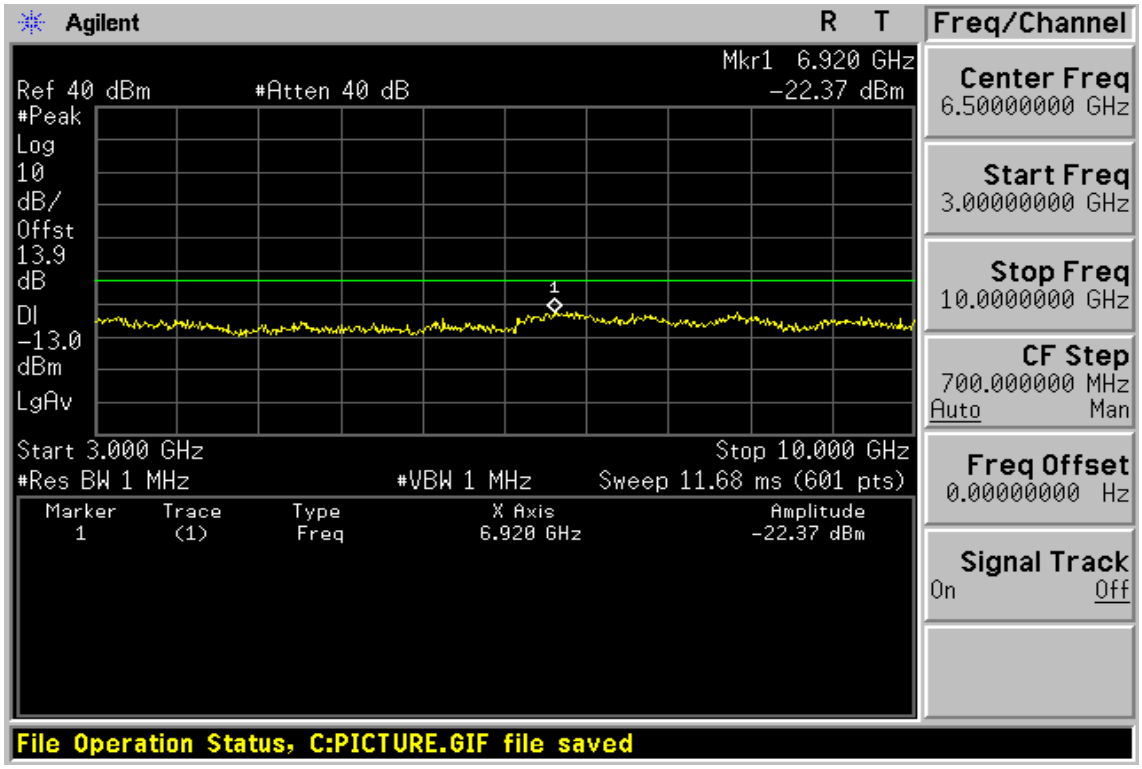


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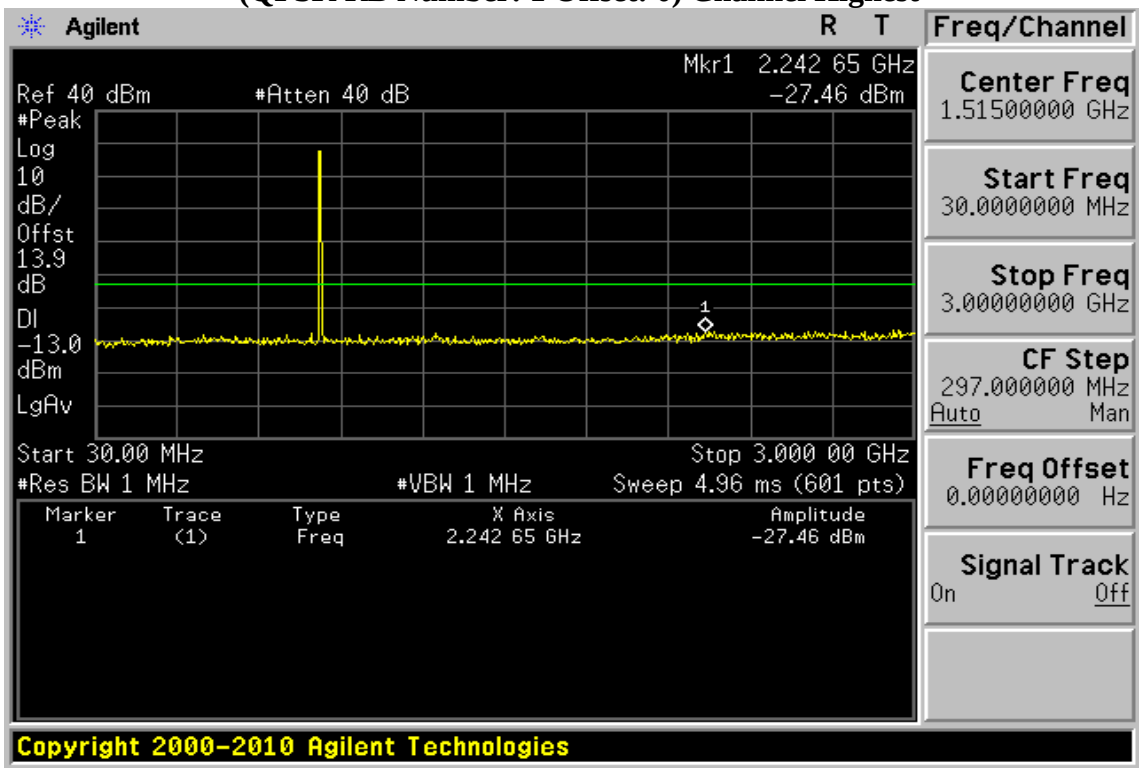
Figure 9-113: Out of Band emission at antenna terminals –5MHz BW LTE-Band 26 (QPSK RB Number: 1 Offset: 0) Channel Highest



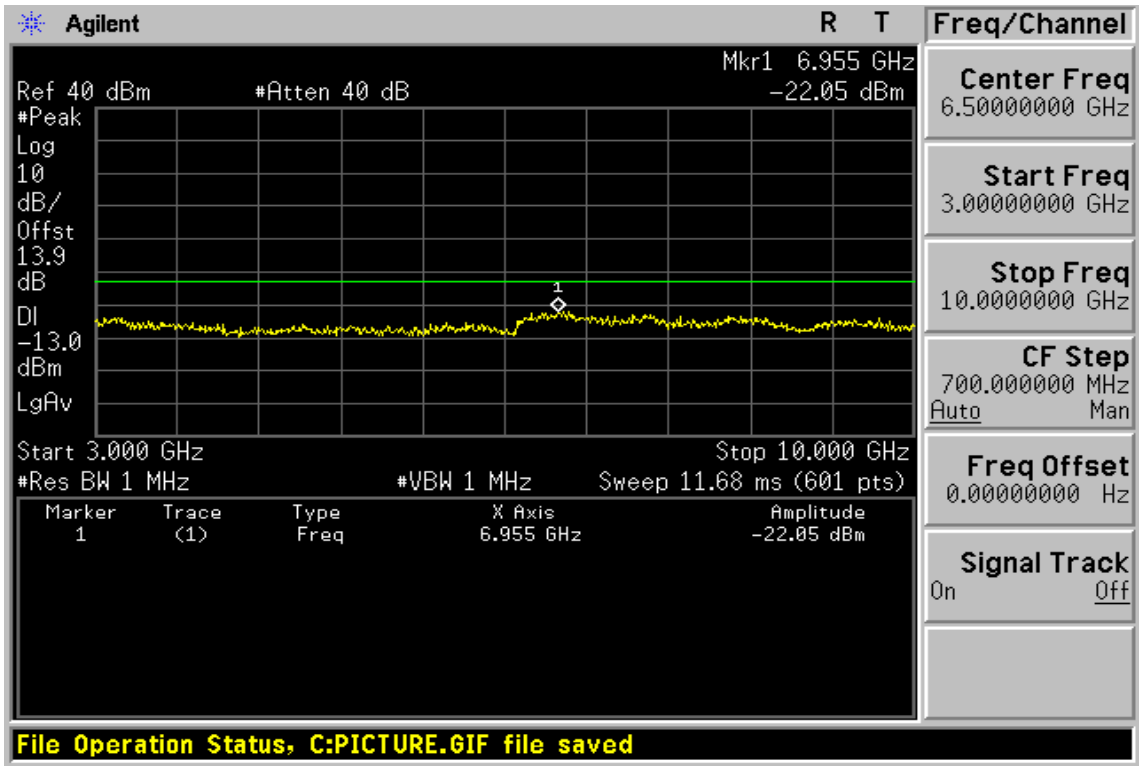


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Figure 9-114: Band edge emission at antenna terminals – 5MHz BW LTE-Band 26 (QPSK RB Number: 1 Offset: 0) Channel Lowest

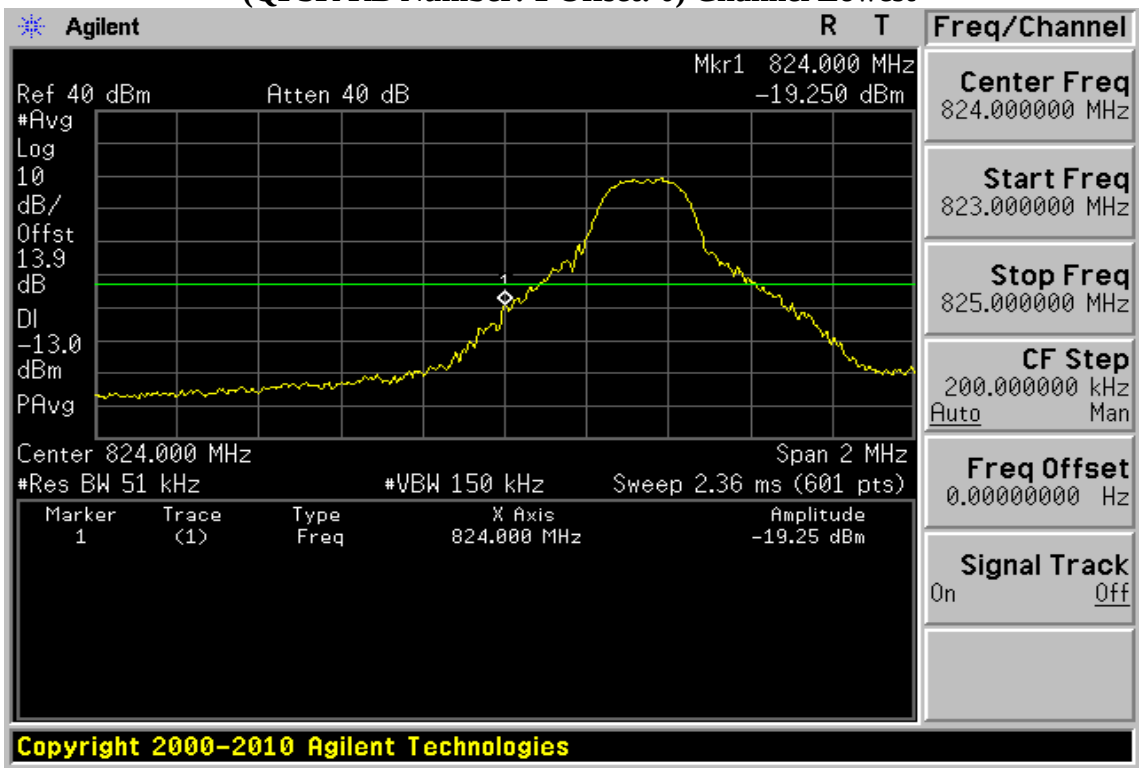

Figure 9-115: Band edge emission at antenna terminals –5MHz BW LTE-Band 26 (QPSK RB Number: 1 Offset: 24) Channel Highest

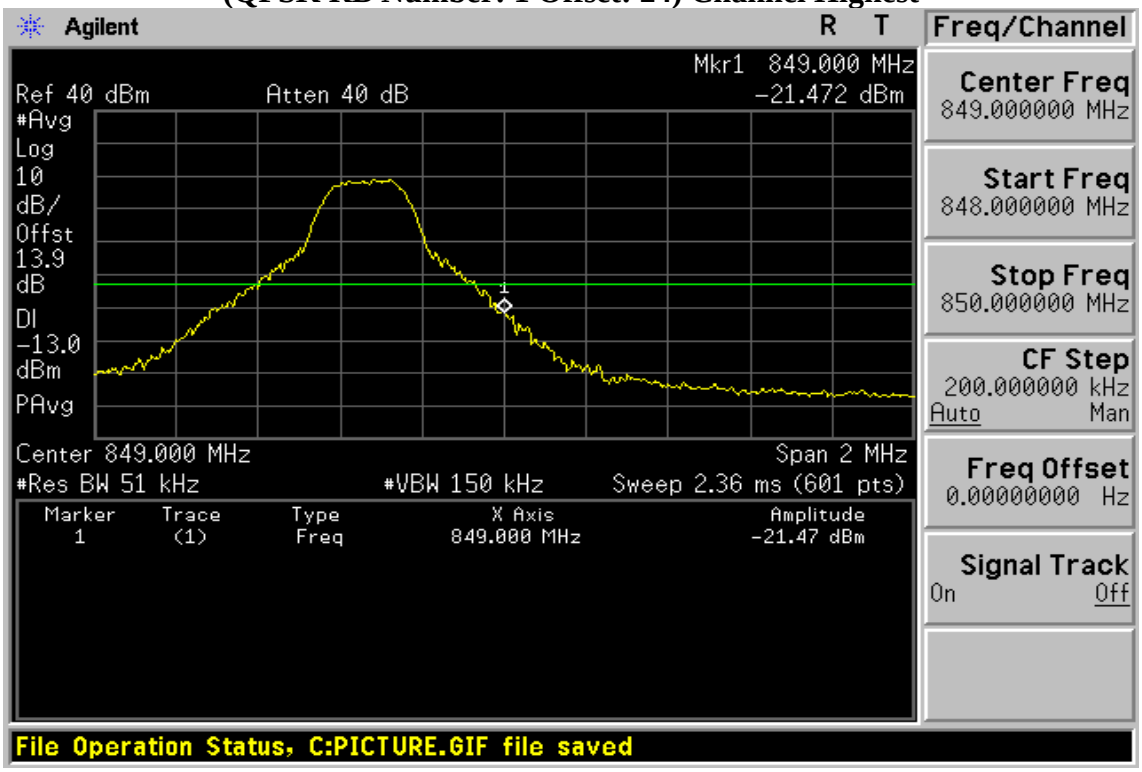

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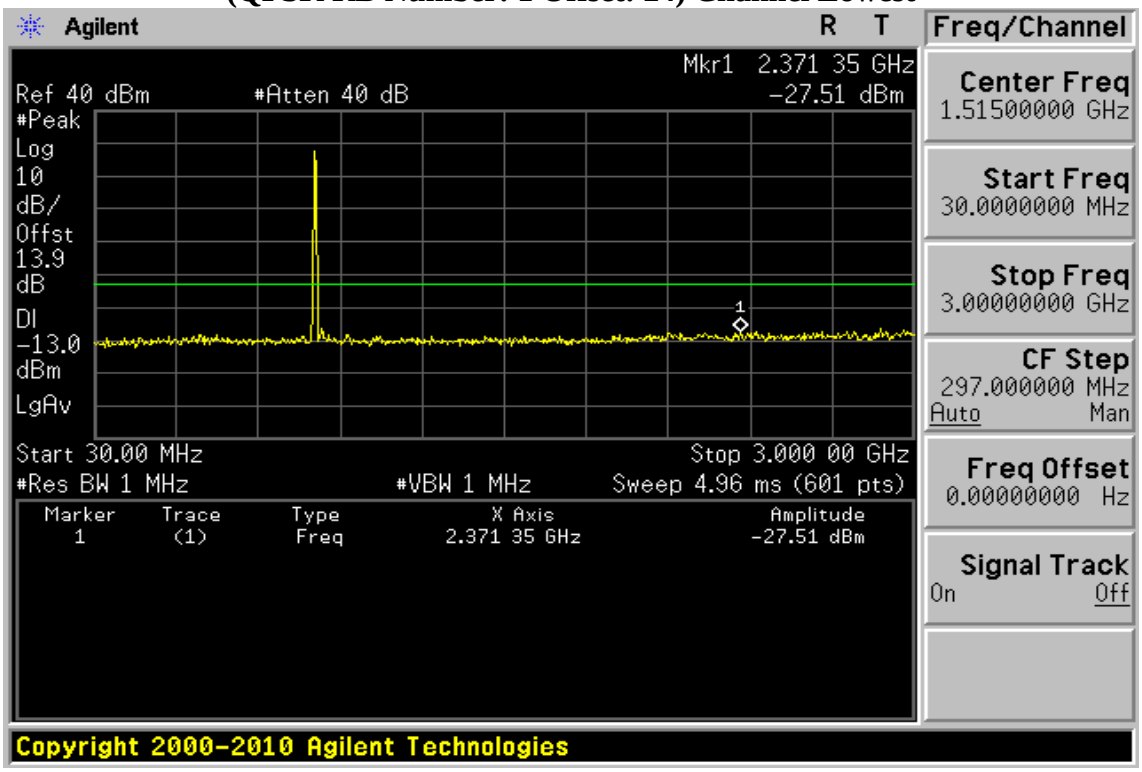
Figure 9-116: Out of Band emission at antenna terminals – 5MHz BW LTE-Band 26 (QPSK RB Number: 1 Offset: 24) Channel Lowest



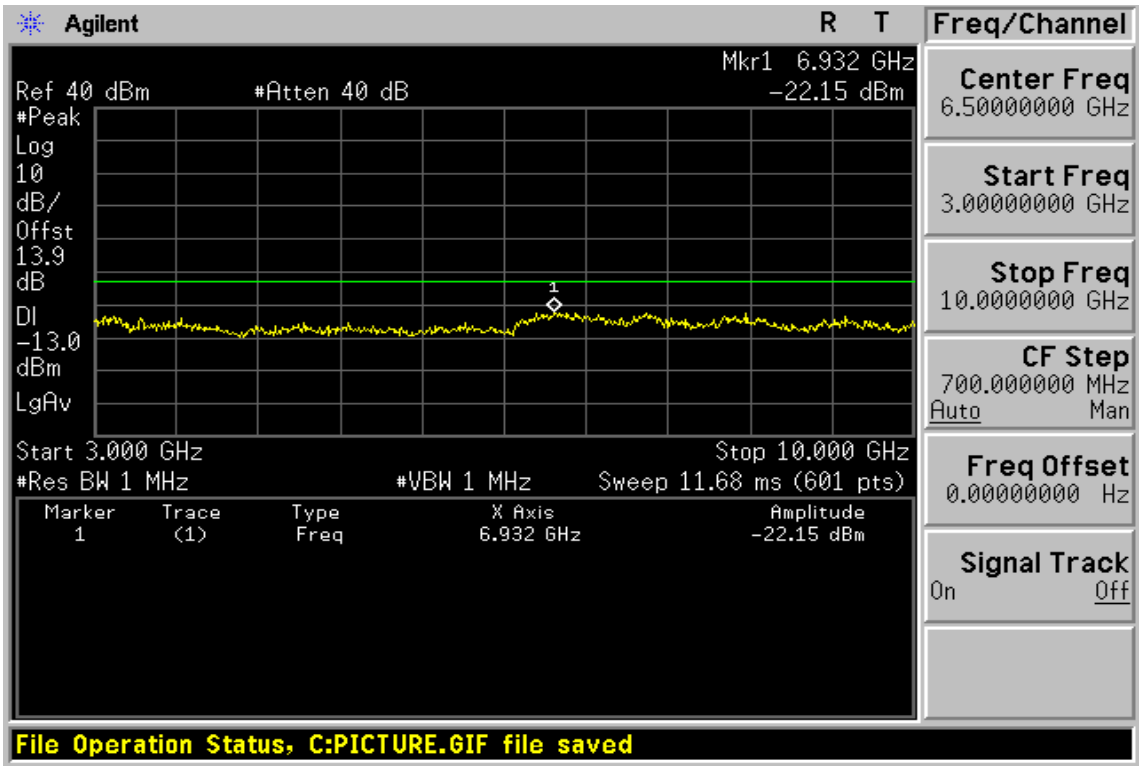


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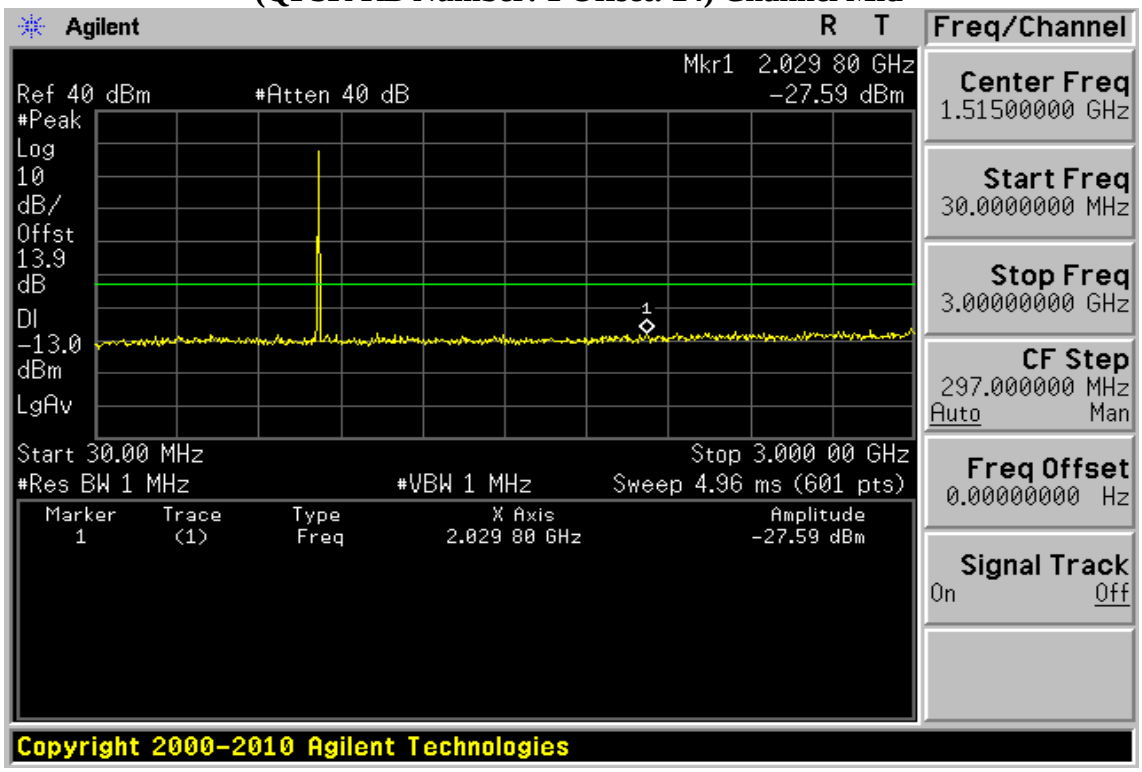
Figure 9-117: Out of Band emission at antenna terminals – 5MHz BW LTE-Band 26 (QPSK RB Number: 1 Offset: 24) Channel Mid



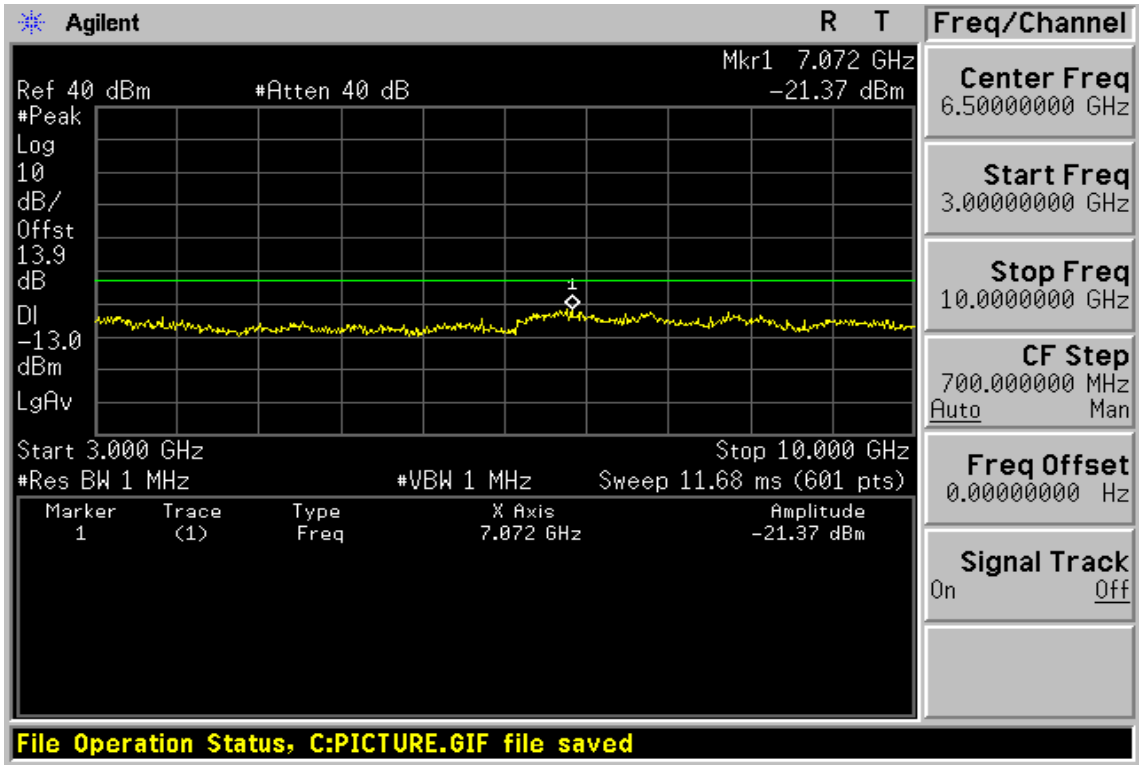


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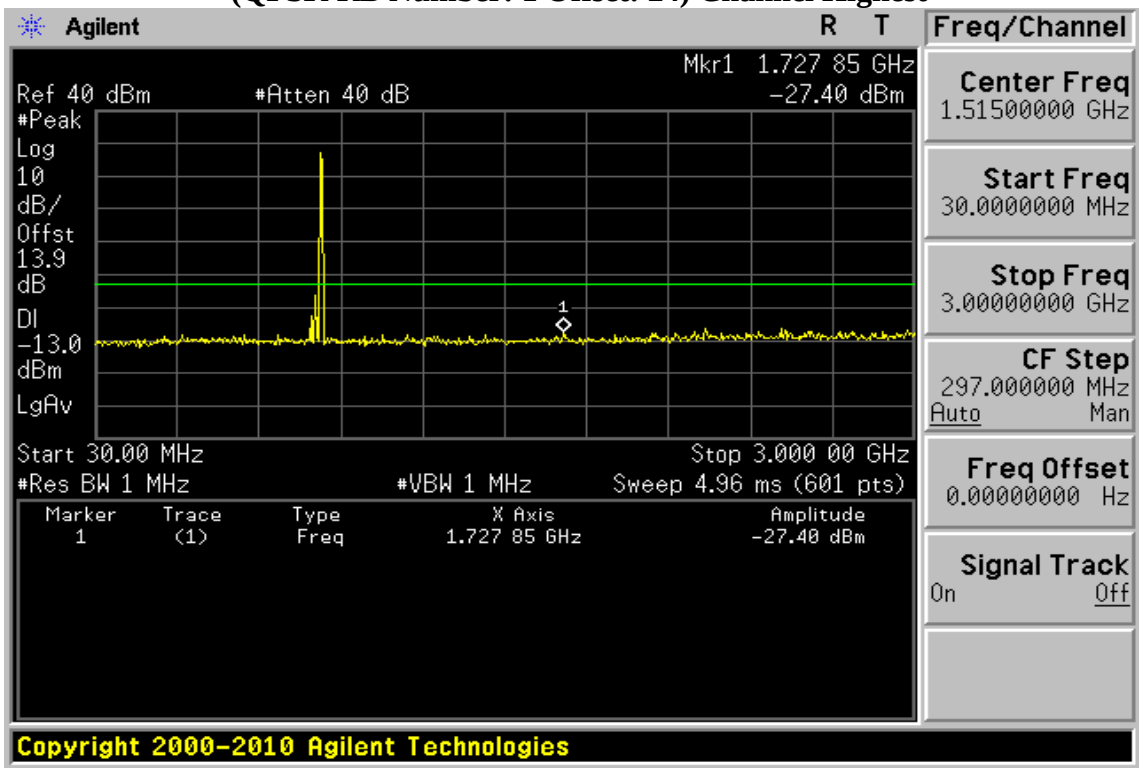
Figure 9-118: Out of Band emission at antenna terminals –5MHz BW LTE-Band 26 (QPSK RB Number: 1 Offset: 24) Channel Highest



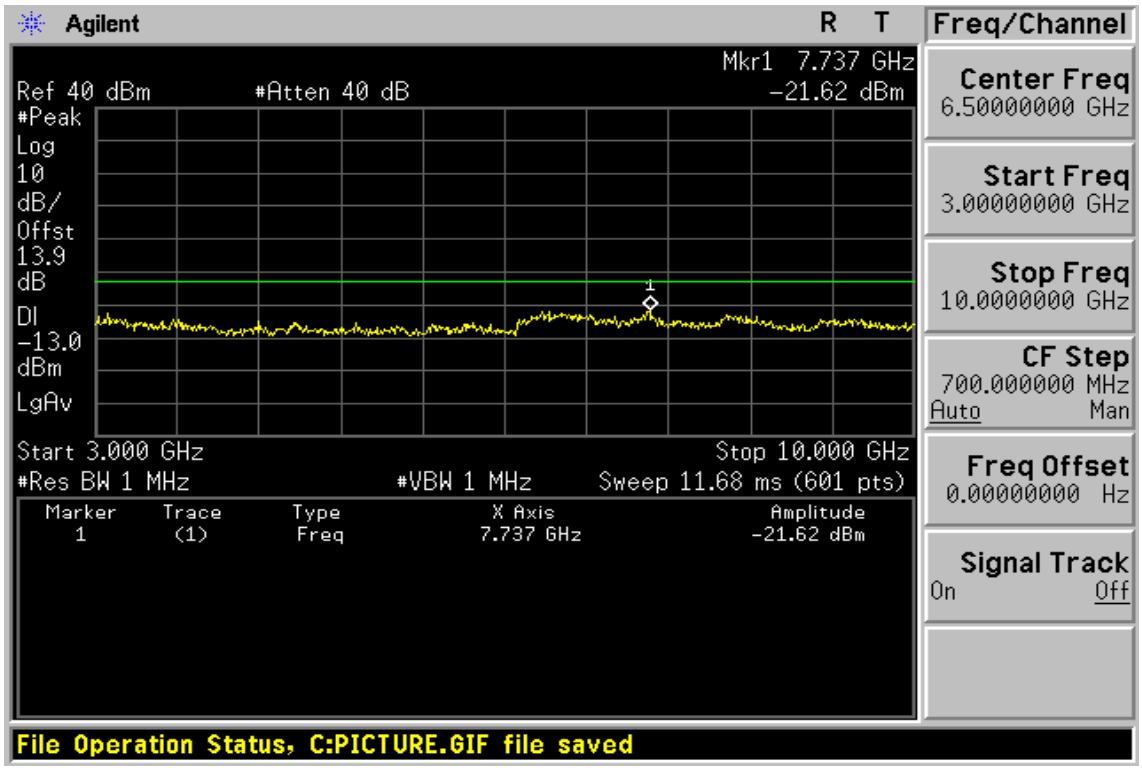


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Figure 9-119: Band edge emission at antenna terminals – 5MHz BW LTE-Band 26 (QPSK RB Number: 25 Offset: 0) Channel Lowest

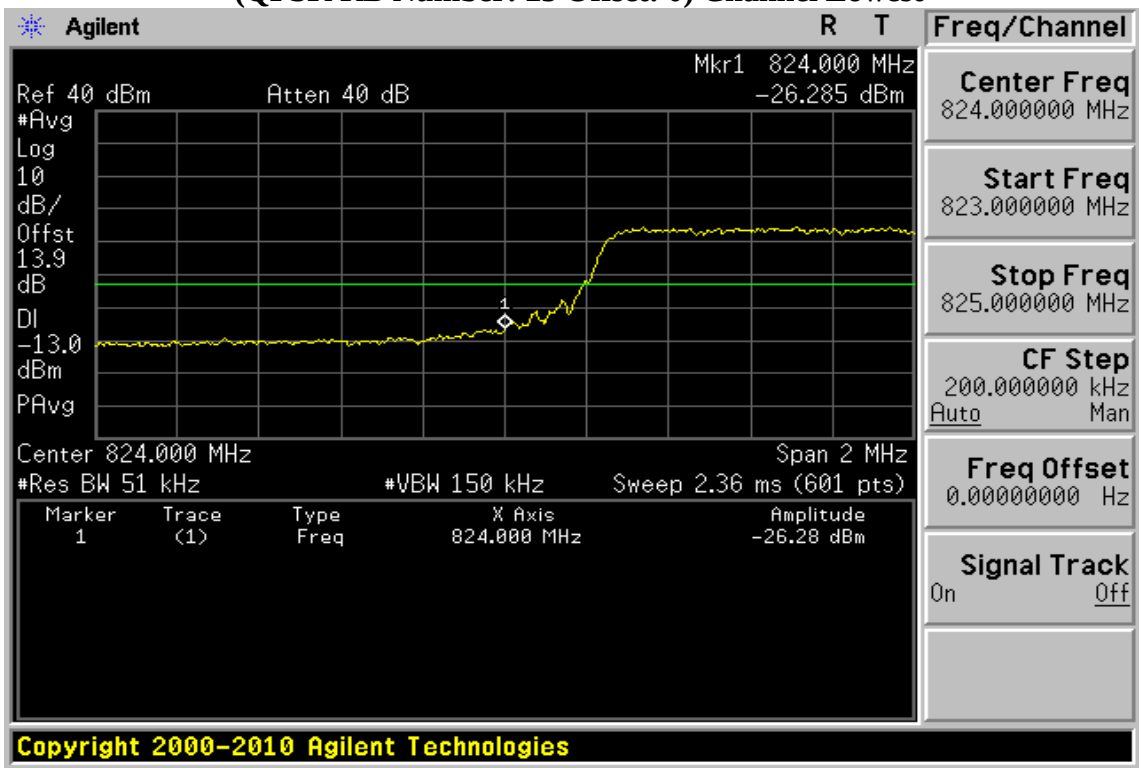

Figure 9-120: Band edge emission at antenna terminals –5MHz BW LTE-Band 26 (QPSK RB Number: 25 Offset: 0) Channel Highest

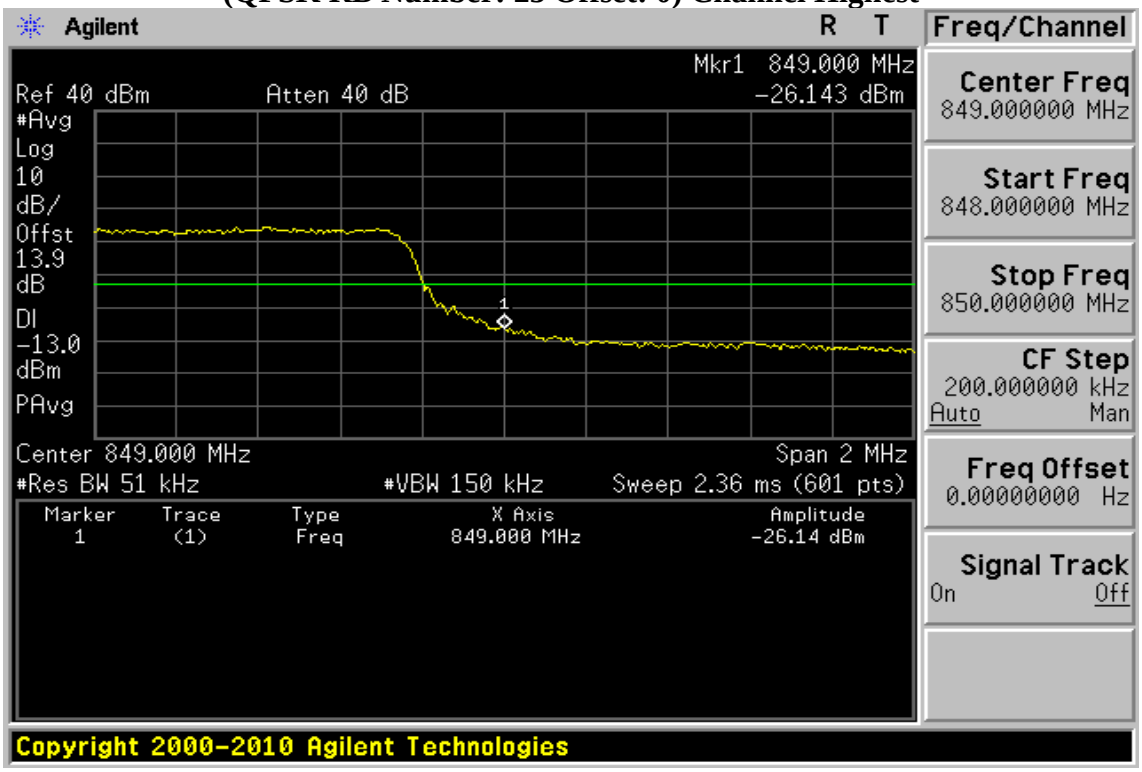

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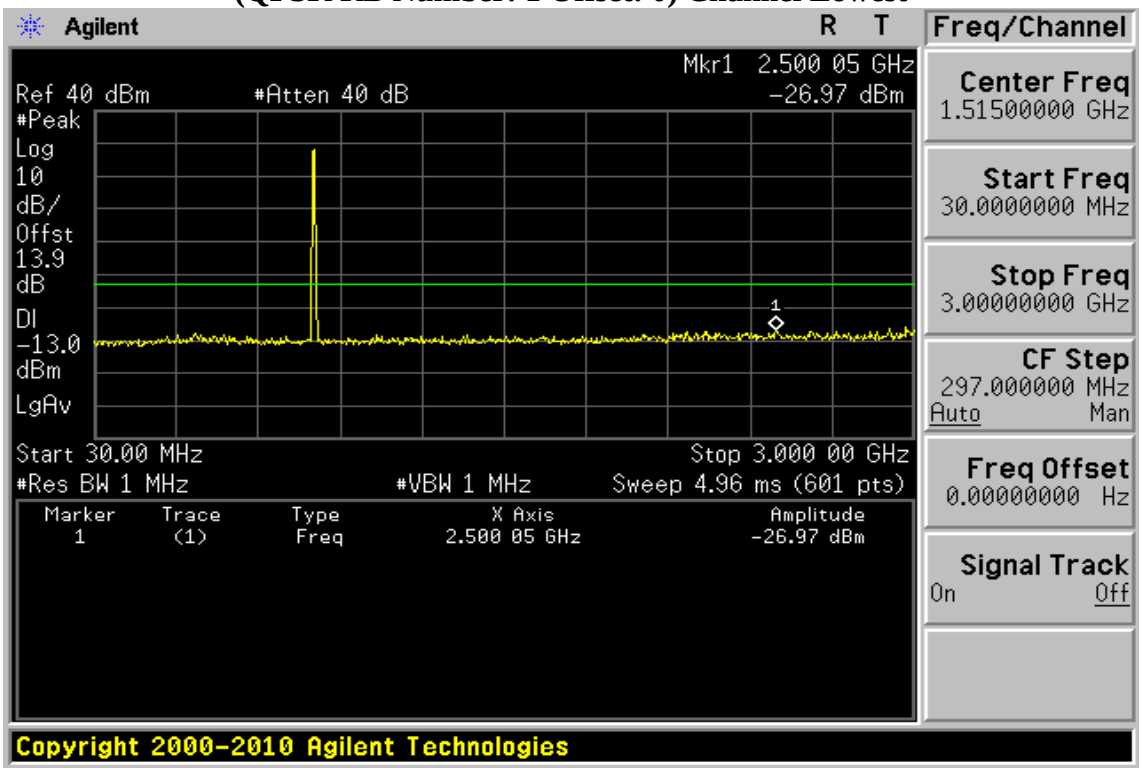
Figure 9-121: Out of Band emission at antenna terminals – 10MHz BW LTE-Band 26 (QPSK RB Number: 1 Offset: 0) Channel Lowest



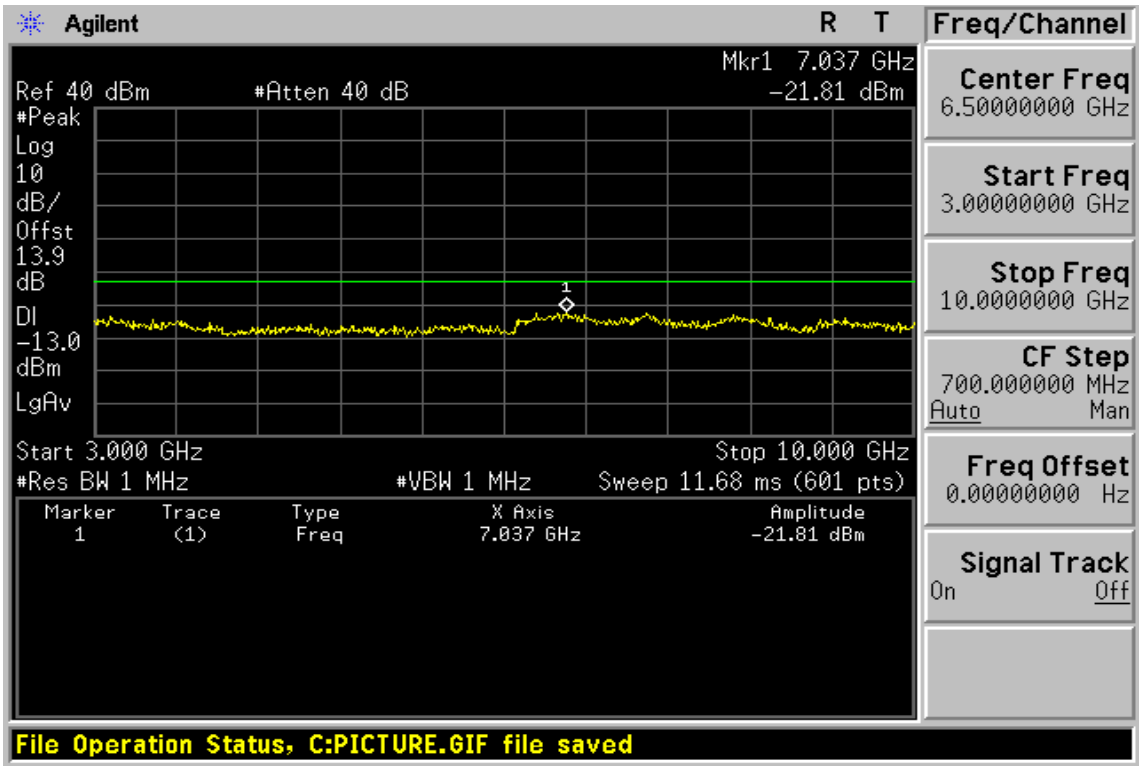


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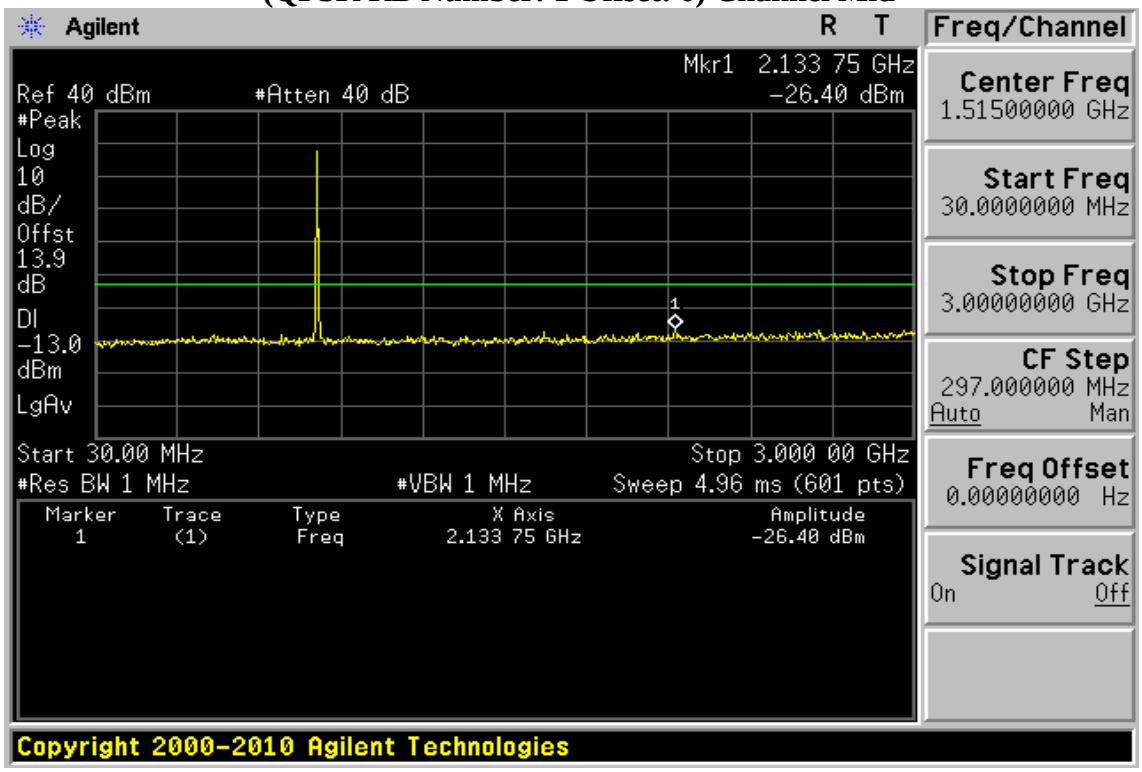
Figure 9-122: Out of Band emission at antenna terminals –10MHz BW LTE-Band 26 (QPSK RB Number: 1 Offset: 0) Channel Mid



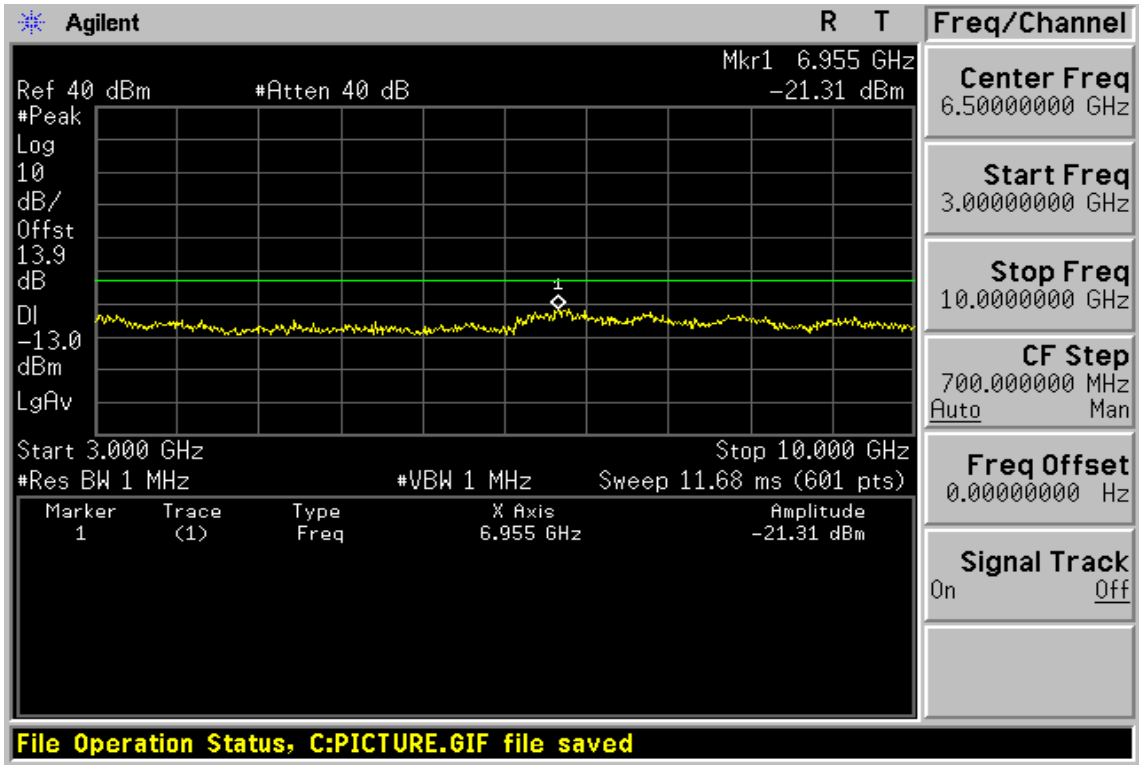


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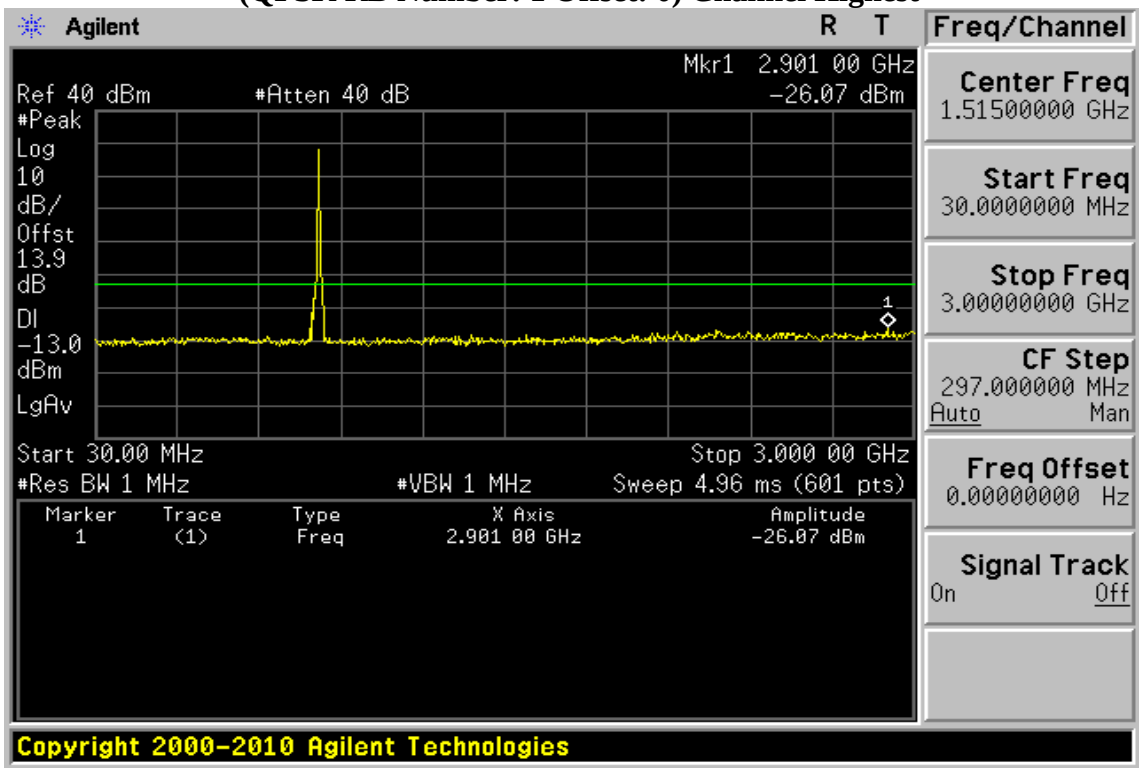
Figure 9-123: Out of Band emission at antenna terminals –10MHz BW LTE-Band 26 (QPSK RB Number: 1 Offset: 0) Channel Highest



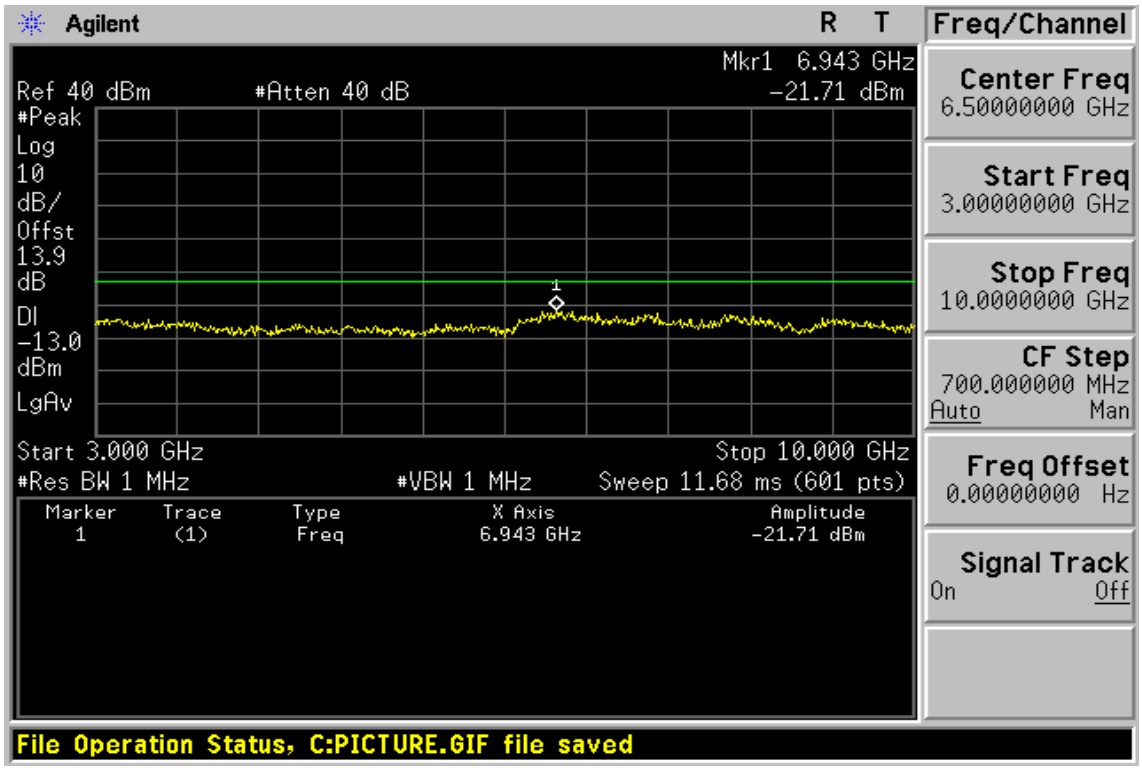


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Figure 9-124: Band edge emission at antenna terminals – 10MHz BW LTE-Band 26 (QPSK RB Number: 1 Offset: 0) Channel Lowest

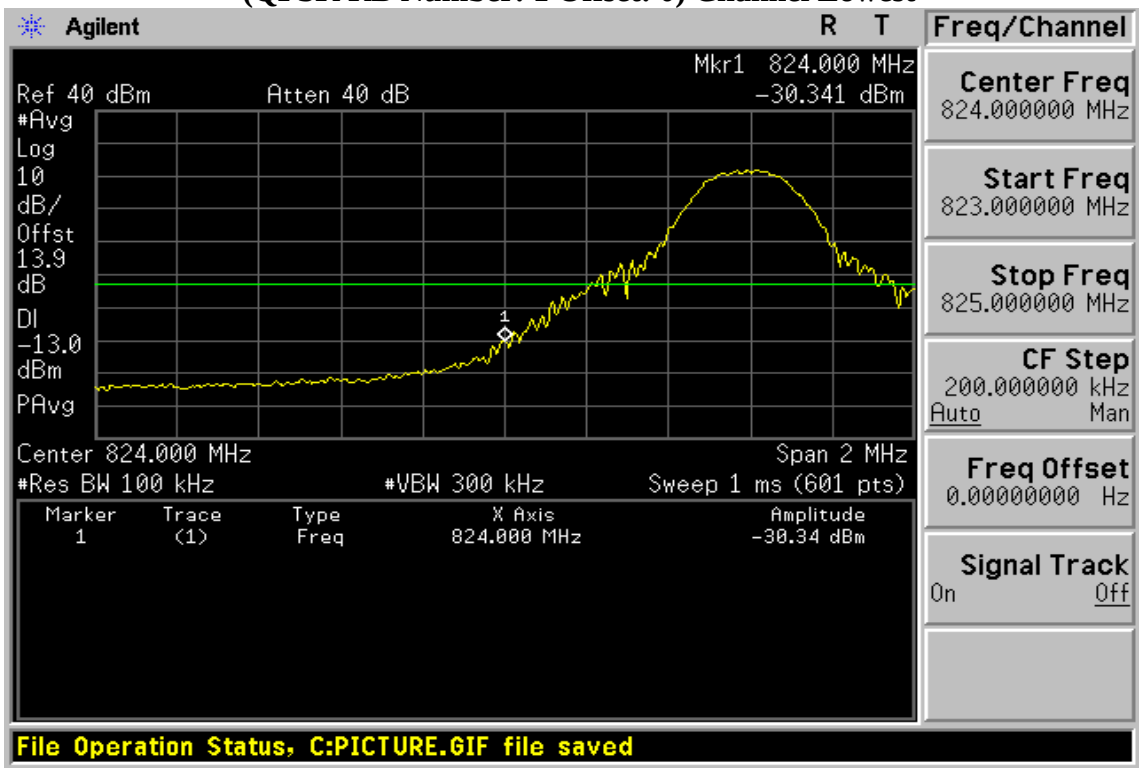

Figure 9-125: Band edge emission at antenna terminals –10MHz BW LTE-Band 26 (QPSK RB Number: 1 Offset: 49) Channel Highest

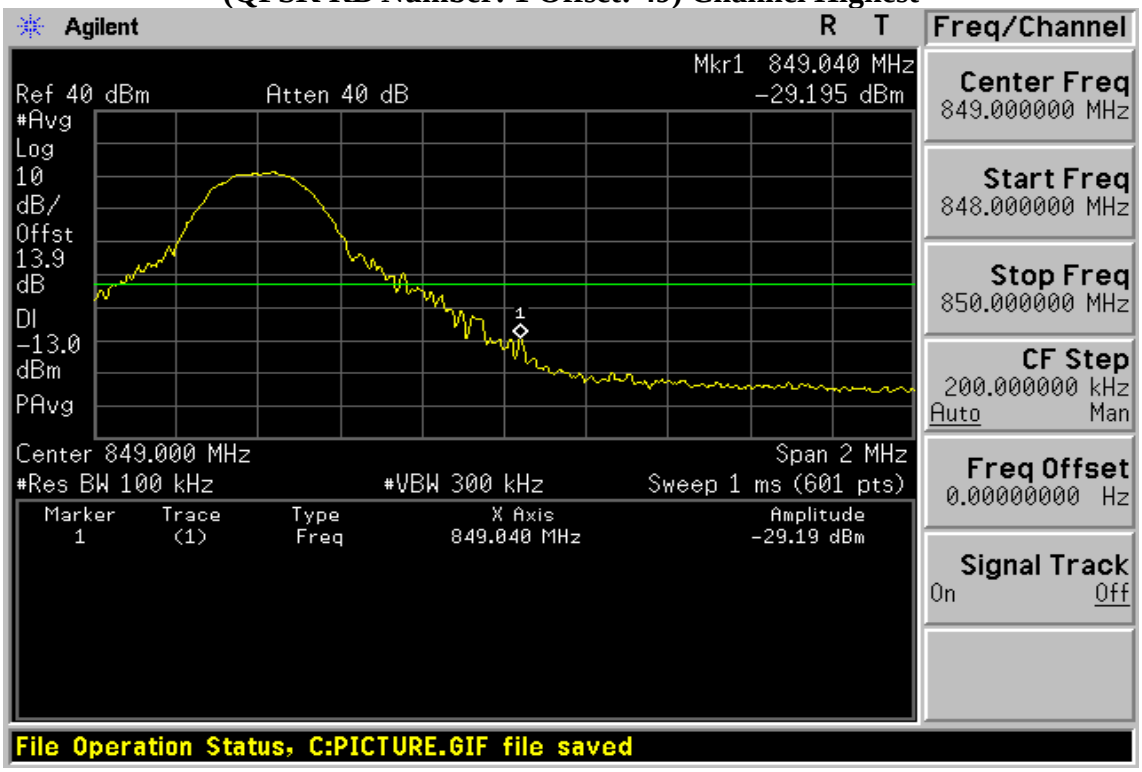

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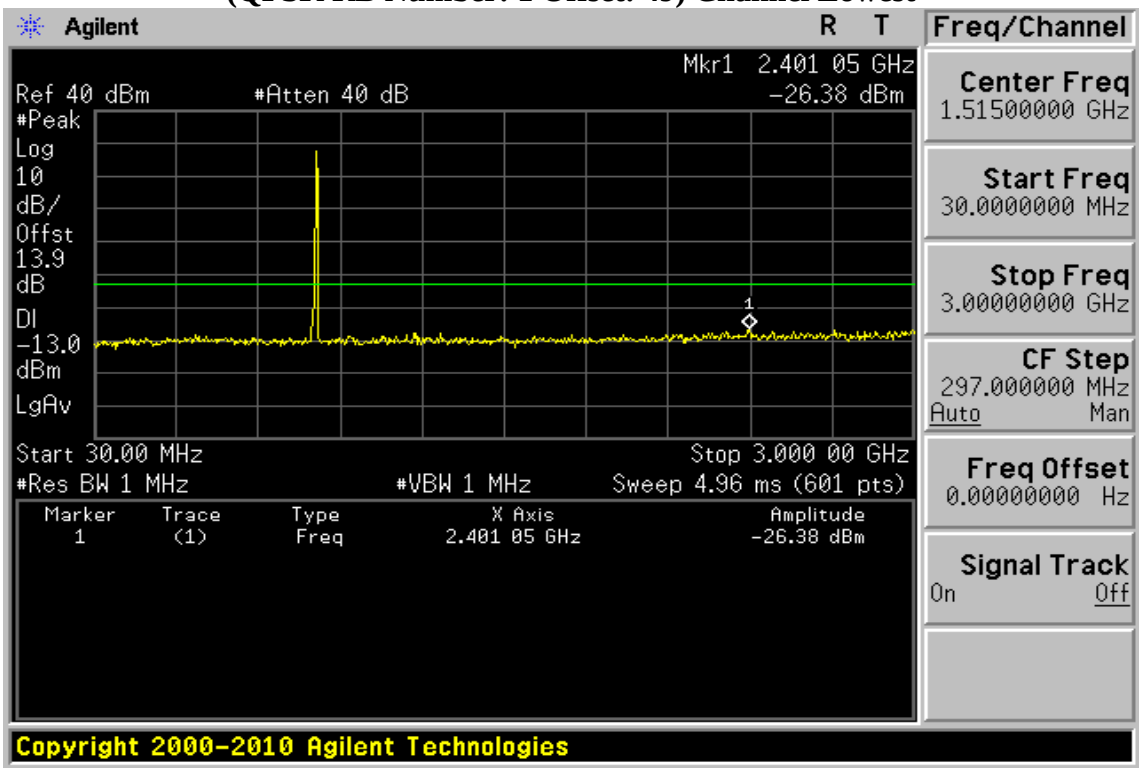
Figure 9-126: Out of Band emission at antenna terminals – 10MHz BW LTE-Band 26 (QPSK RB Number: 1 Offset: 49) Channel Lowest



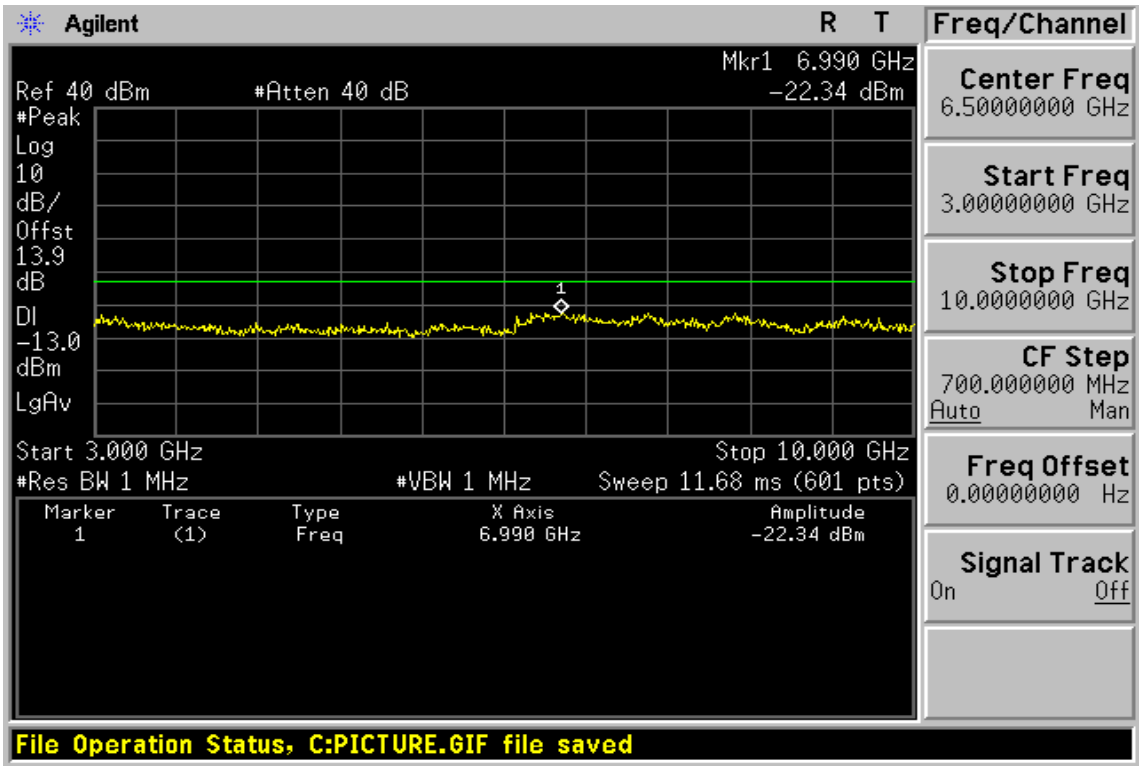


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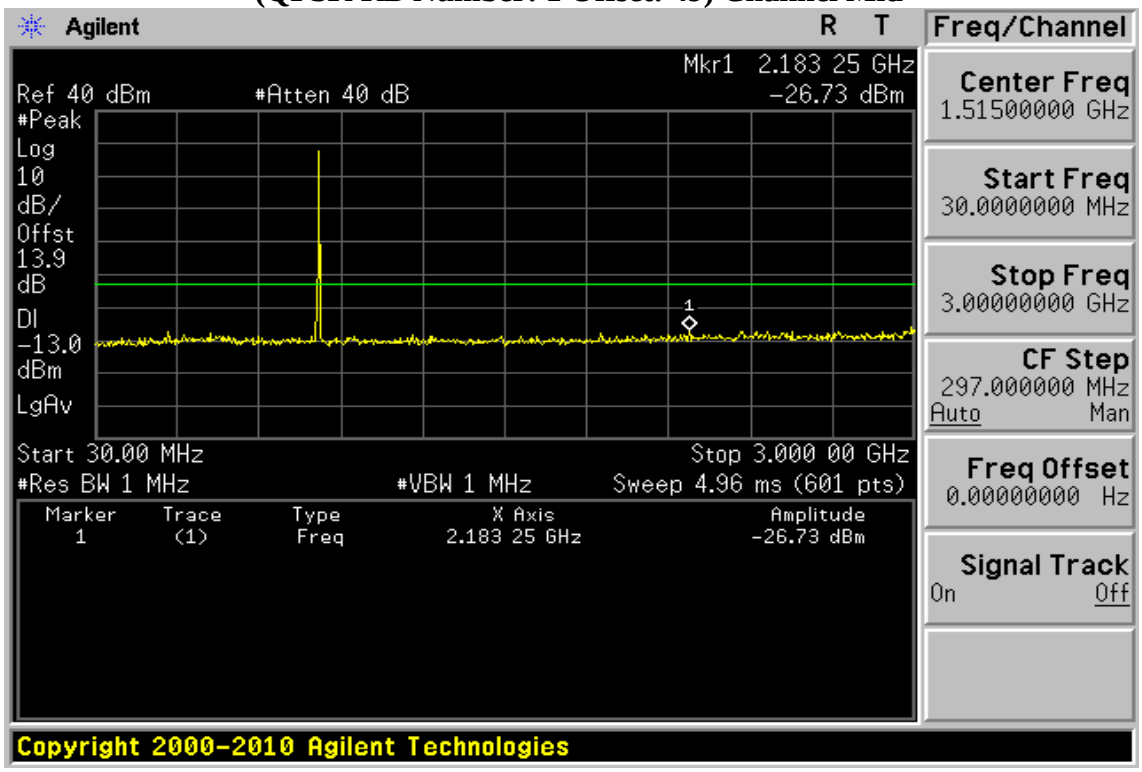
Figure 9-127: Out of Band emission at antenna terminals – 10MHz BW LTE-Band 26 (QPSK RB Number: 1 Offset: 49) Channel Mid



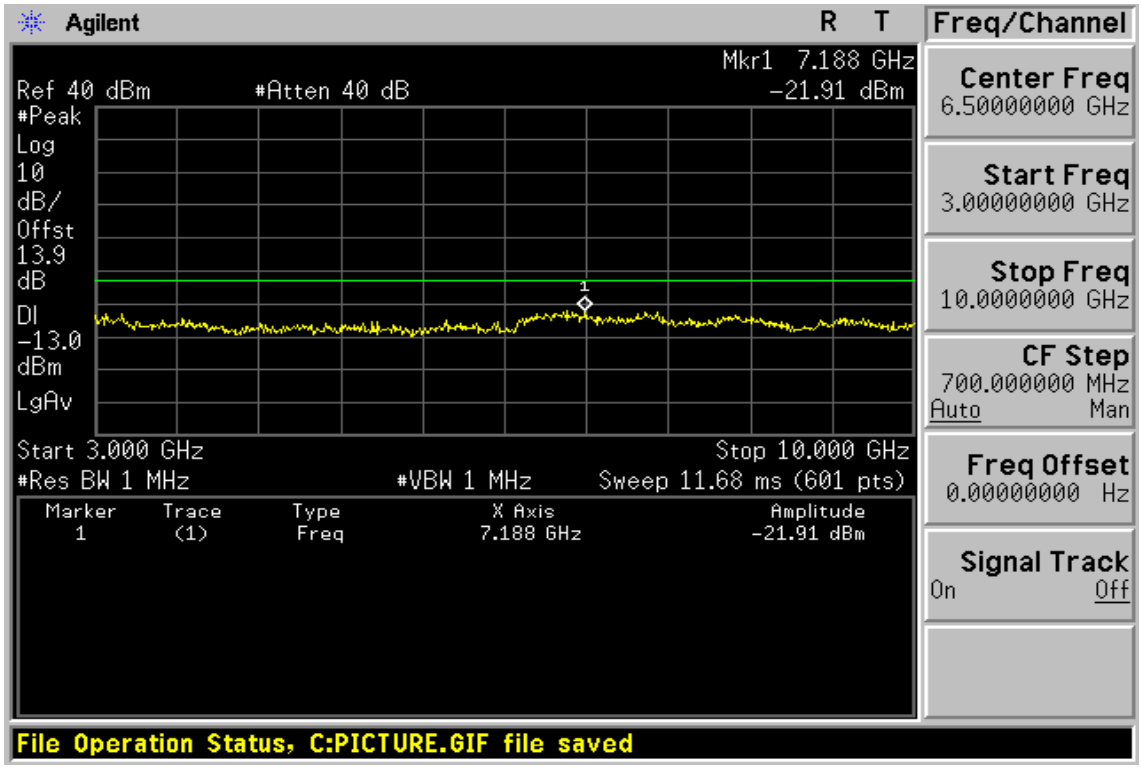


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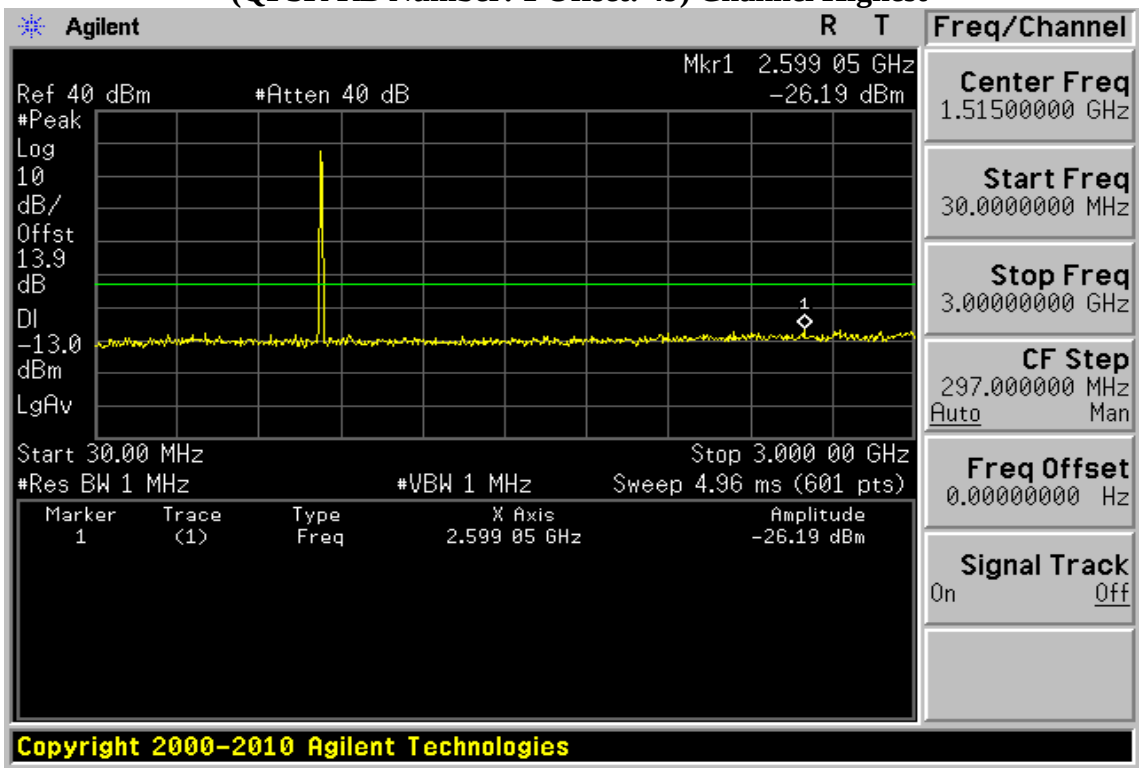
Figure 9-128: Out of Band emission at antenna terminals –10MHz BW LTE-Band 26 (QPSK RB Number: 1 Offset: 49) Channel Highest



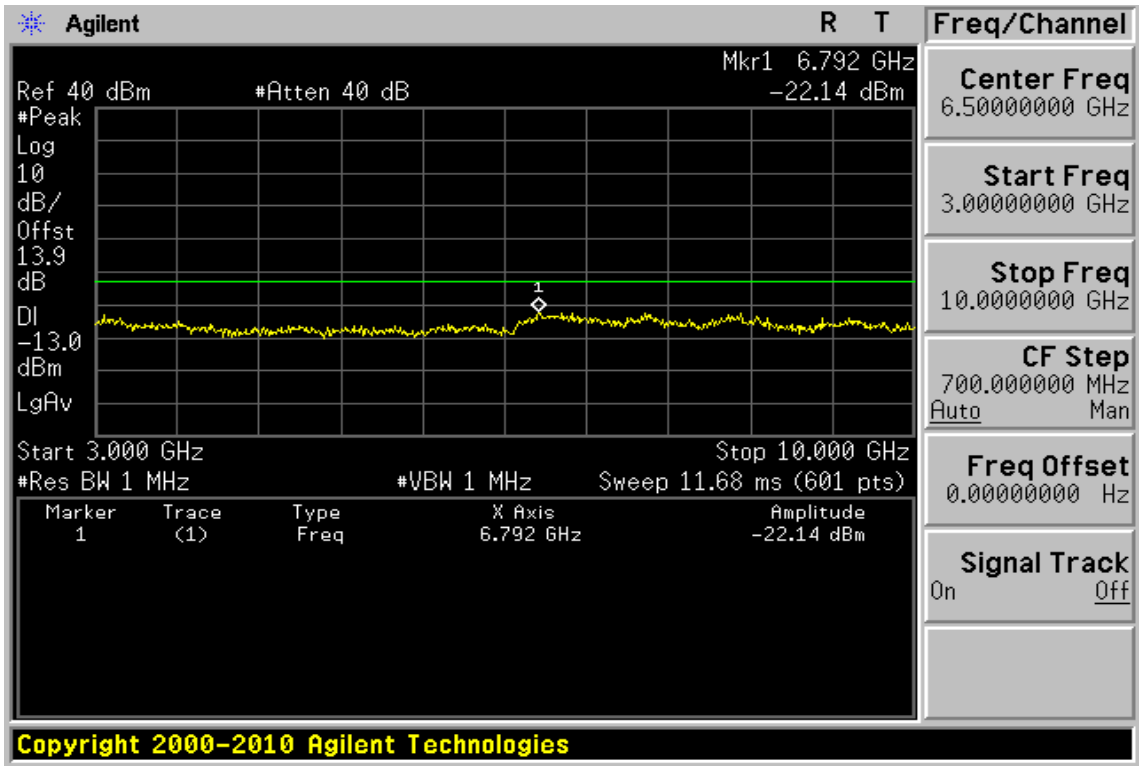


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Figure 9-129: Band edge emission at antenna terminals – 10MHz BW LTE-Band 26 (QPSK RB Number: 50 Offset: 0) Channel Lowest

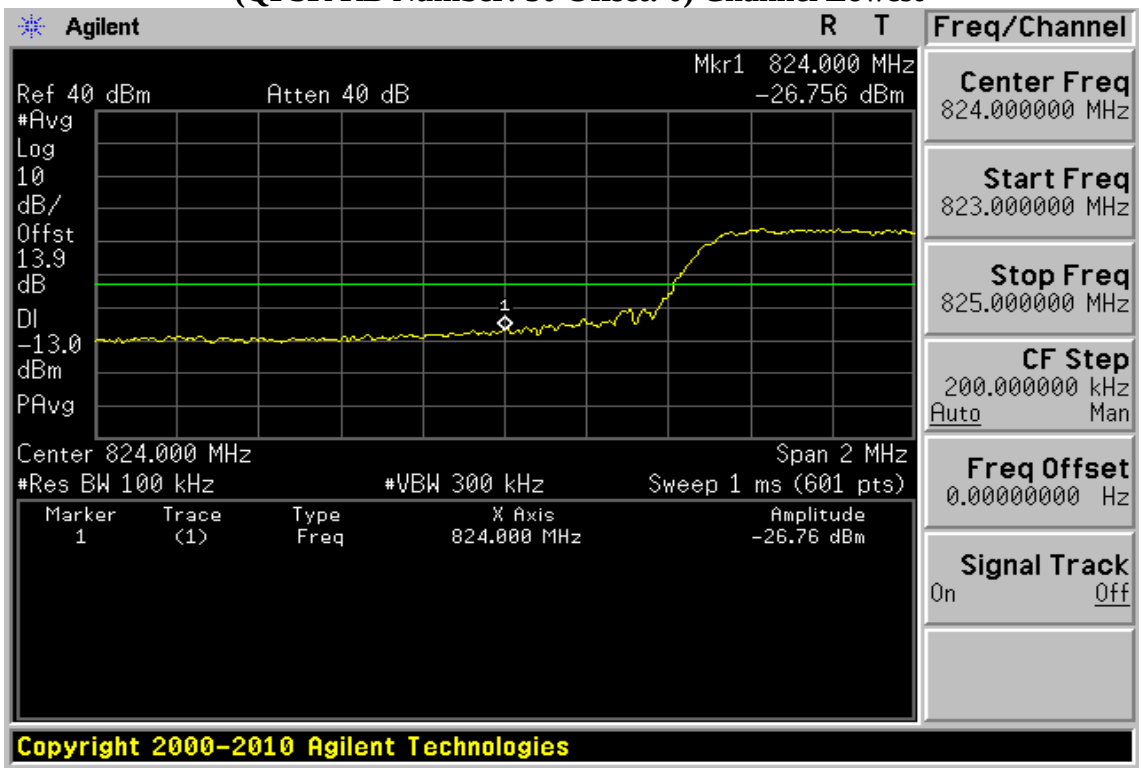

Figure 9-130: Band edge emission at antenna terminals –10MHz BW LTE-Band 26 (QPSK RB Number: 50 Offset: 0) Channel Highest

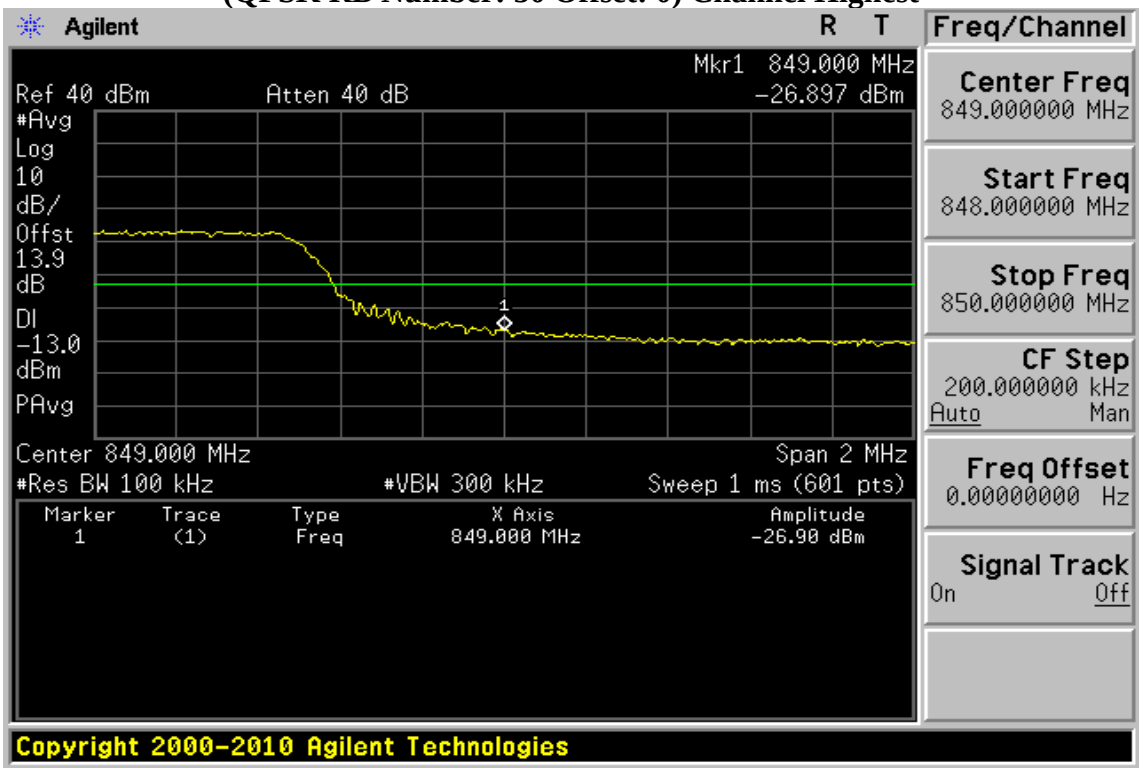

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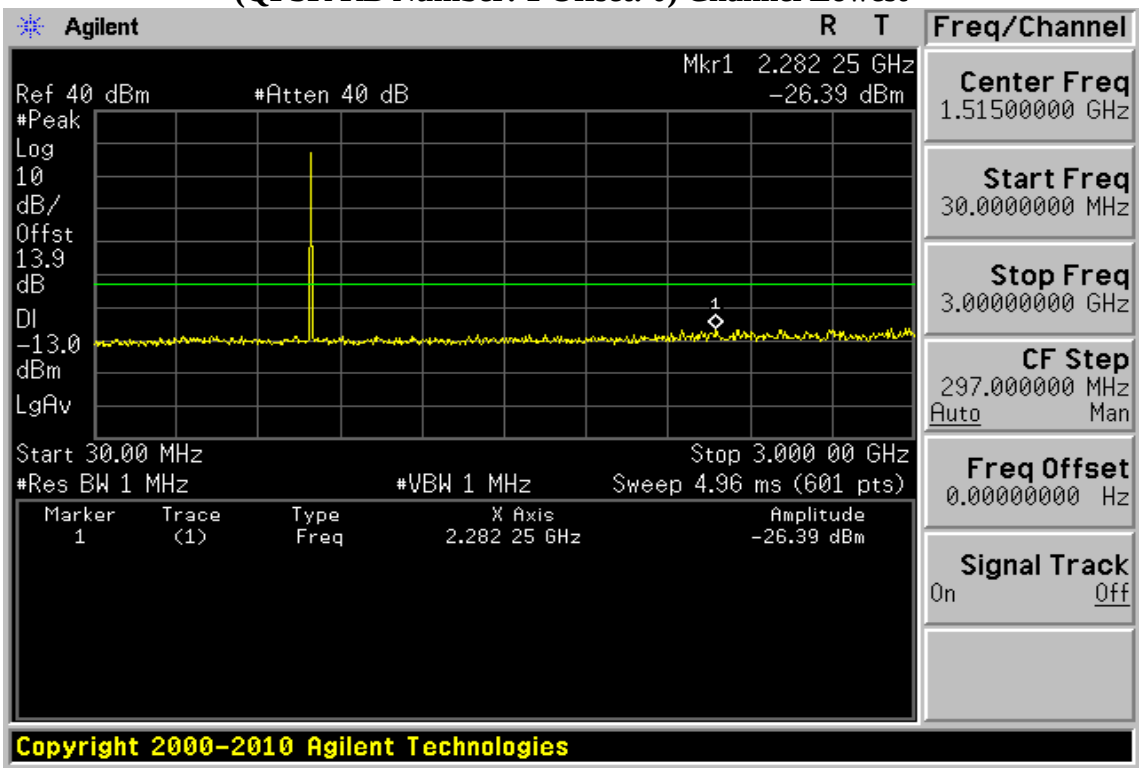
Figure 9-131: Out of Band emission at antenna terminals – 1.4MHz BW LTE-Band 26 (QPSK RB Number: 1 Offset: 0) Channel Lowest



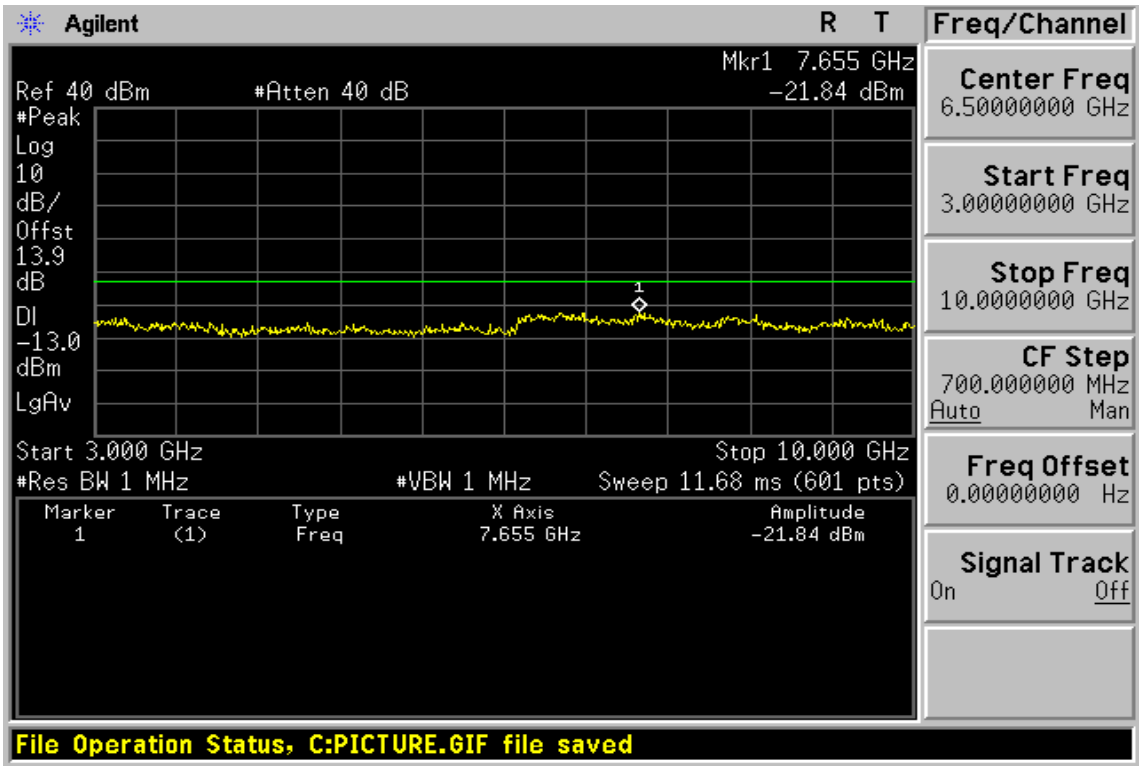


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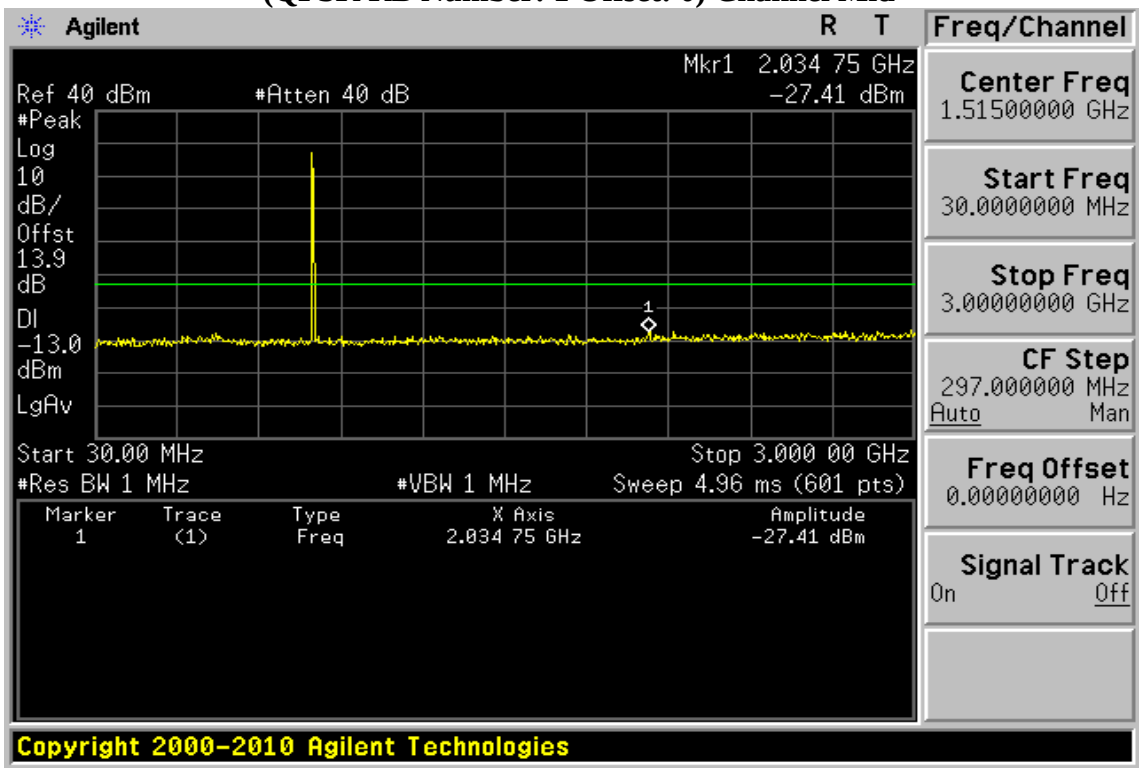
Figure 9-132: Out of Band emission at antenna terminals –1.4MHz BW LTE-Band 26 (QPSK RB Number: 1 Offset: 0) Channel Mid



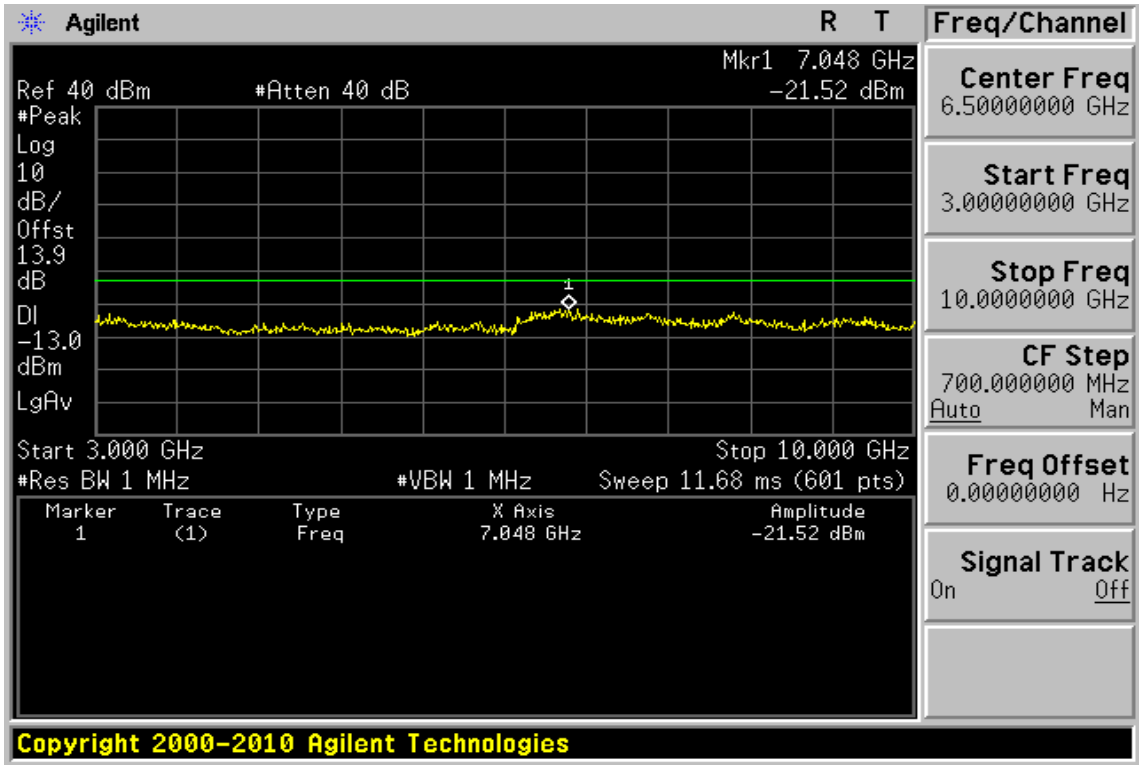


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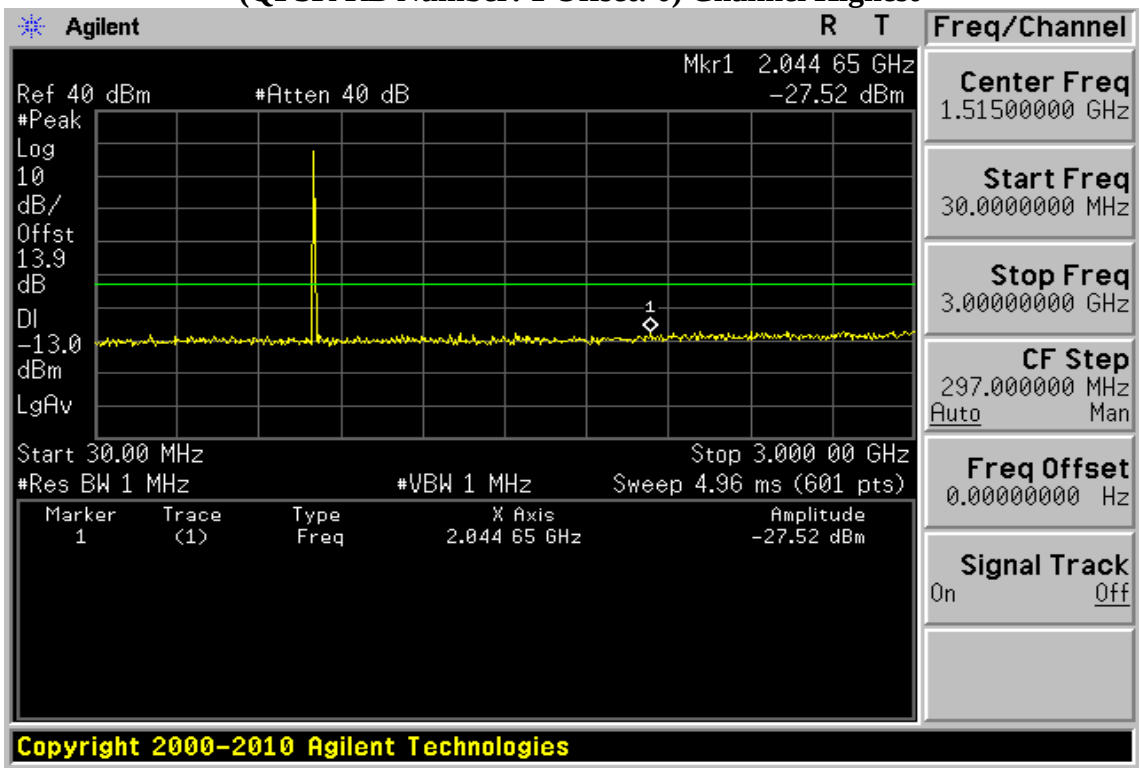
Figure 9-133: Out of Band emission at antenna terminals –1.4MHz BW LTE-Band 26 (QPSK RB Number: 1 Offset: 0) Channel Highest



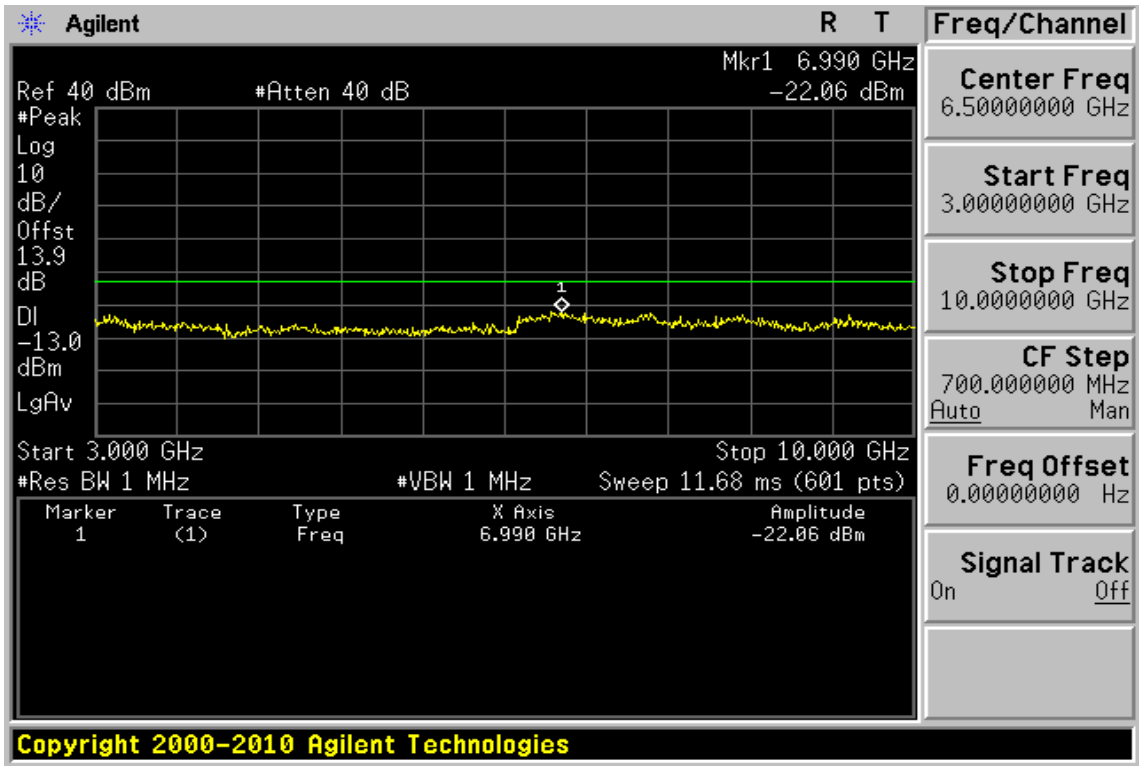


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Figure 9-134: Band edge emission at antenna terminals – 1.4MHz BW LTE-Band 26 (QPSK RB Number: 1 Offset: 0) Channel Lowest

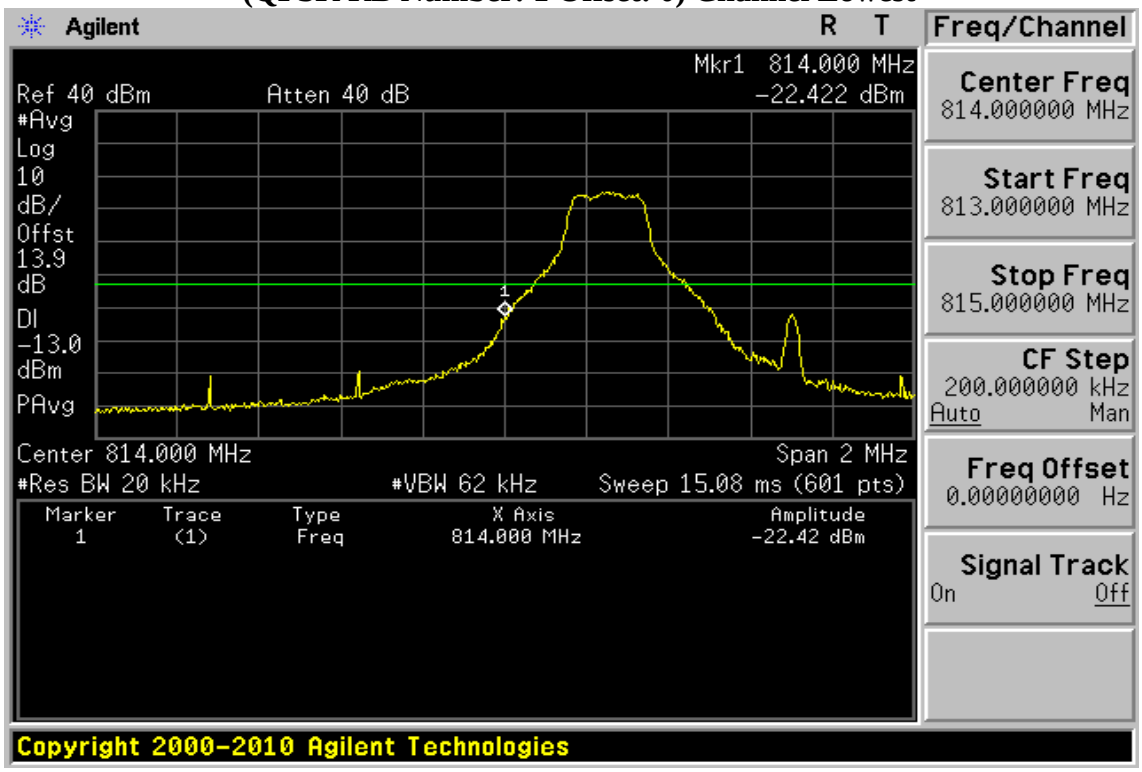

Figure 9-135: Band edge emission at antenna terminals – 1.4MHz BW LTE-Band 26 (QPSK RB Number: 1 Offset: 5) Channel Highest

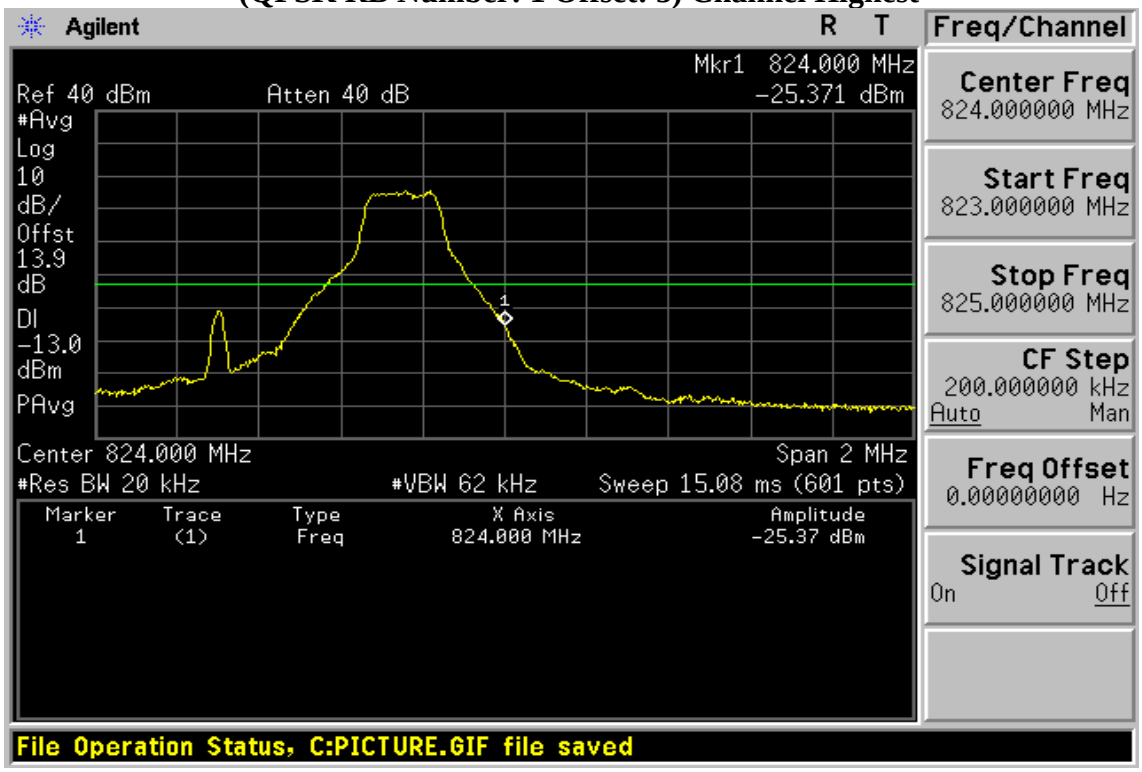

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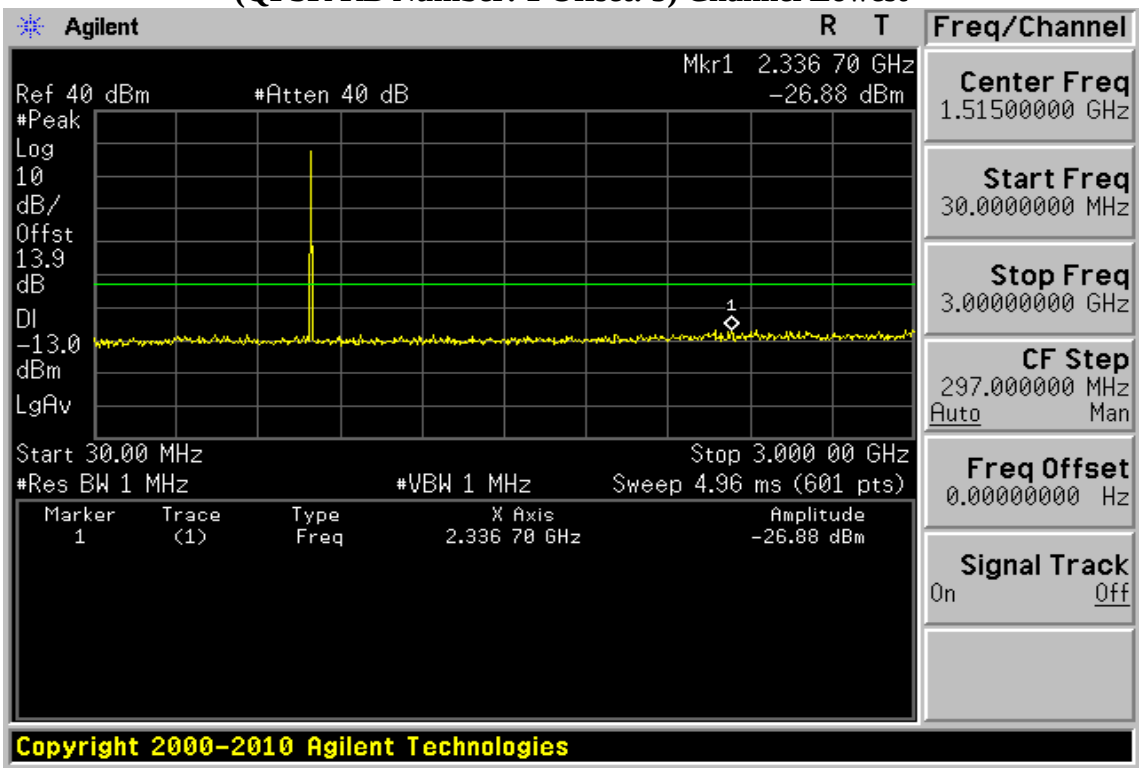
Figure 9-136: Out of Band emission at antenna terminals – 1.4MHz BW LTE-Band 26 (QPSK RB Number: 1 Offset: 5) Channel Lowest



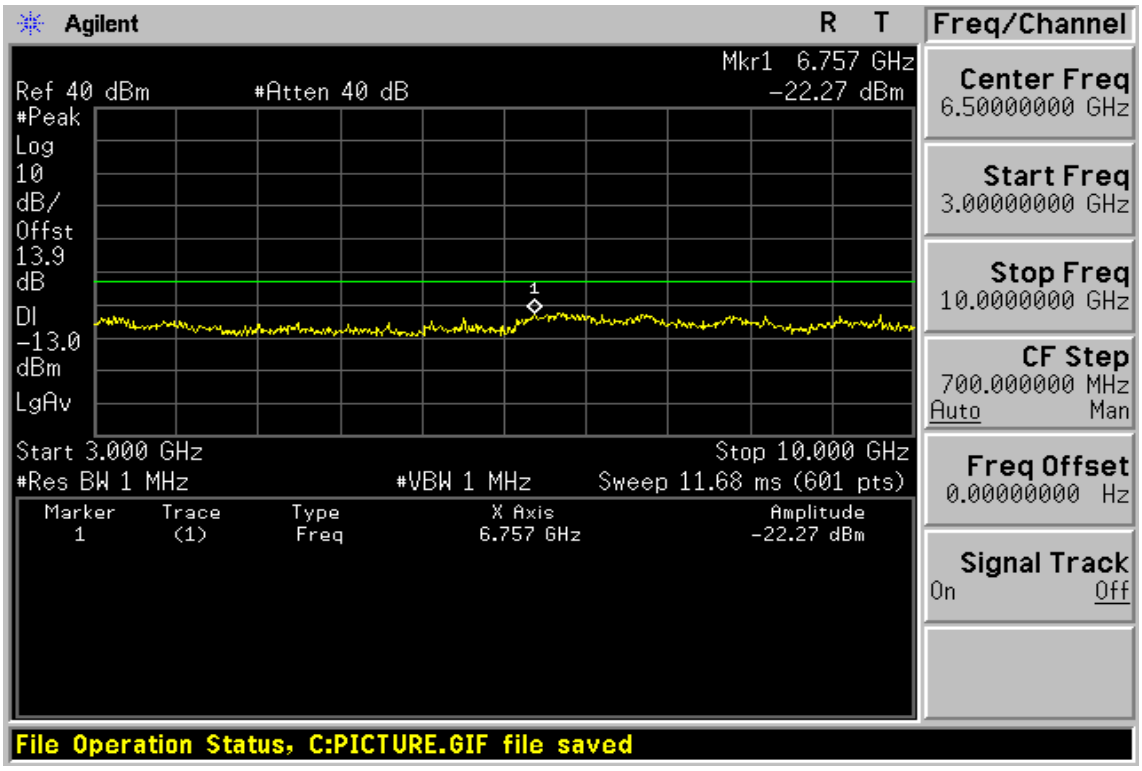


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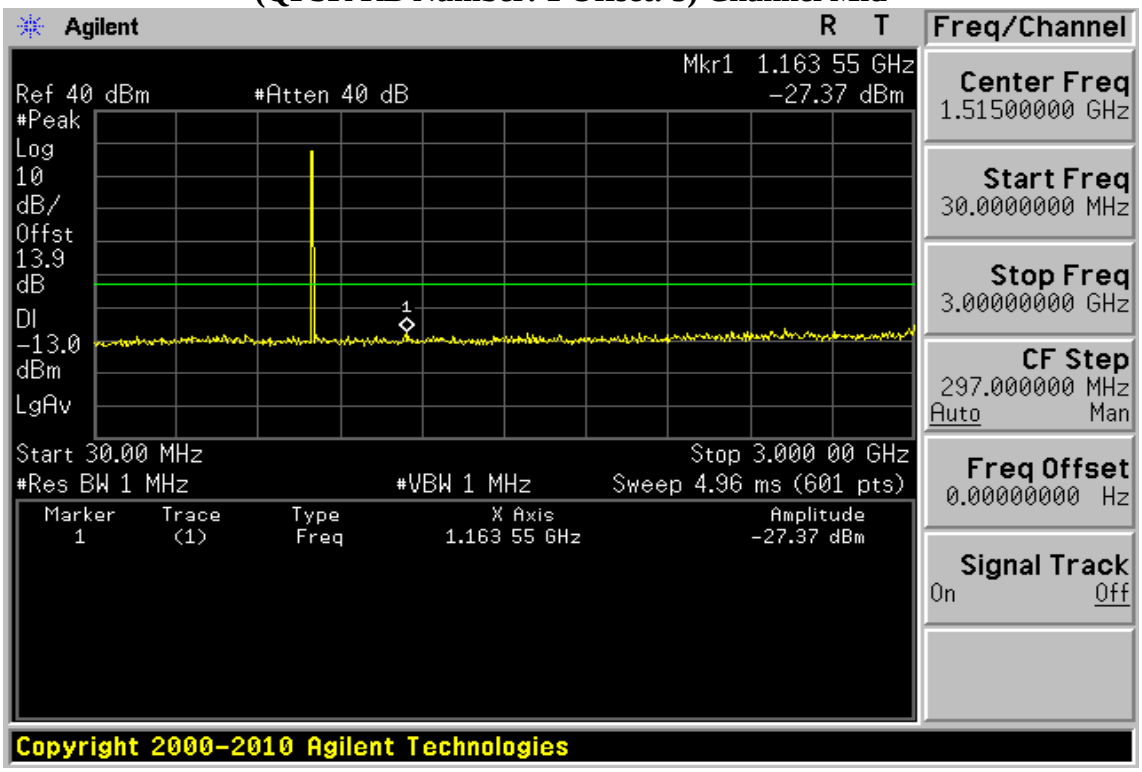
Figure 9-137: Out of Band emission at antenna terminals –1.4MHz BW LTE-Band 26 (QPSK RB Number: 1 Offset: 5) Channel Mid



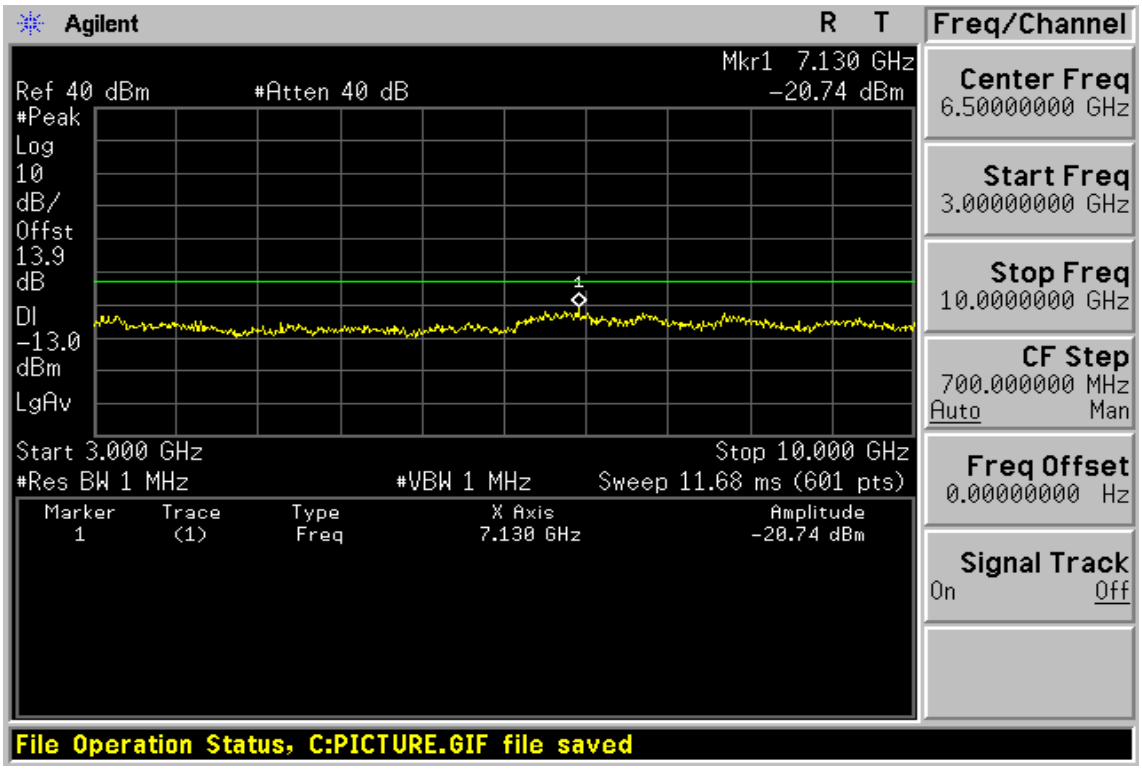


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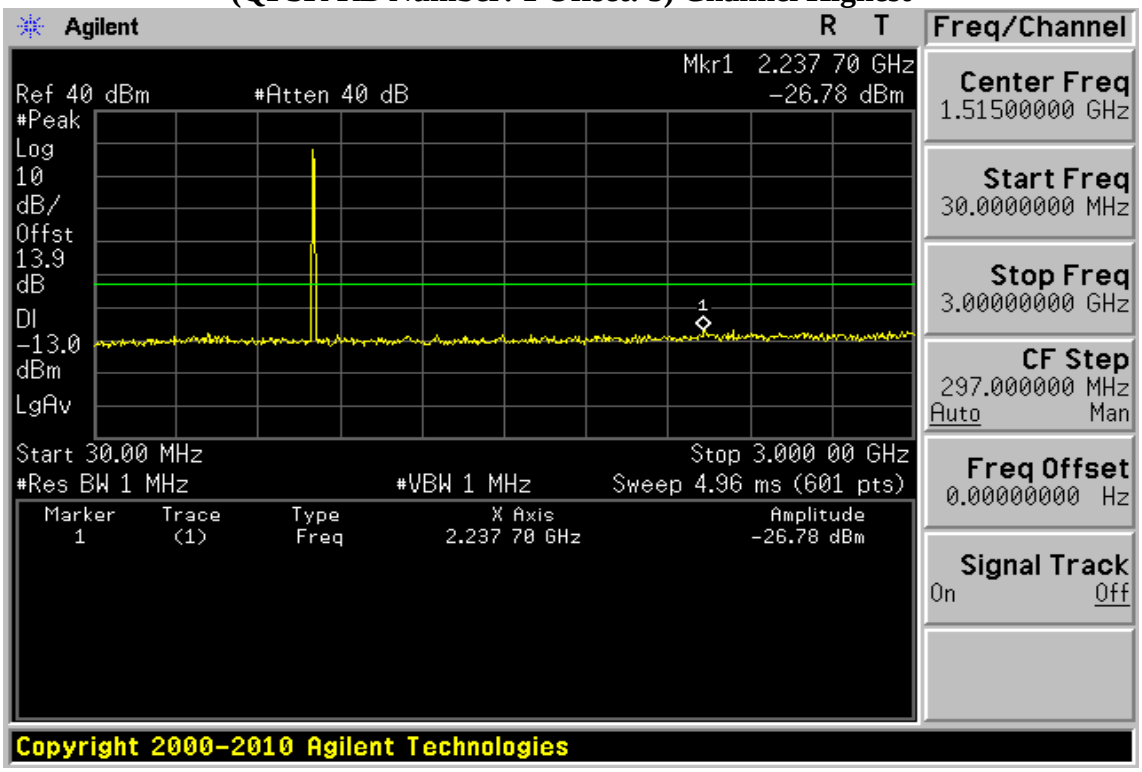
Figure 9-138: Out of Band emission at antenna terminals –1.4MHz BW LTE-Band 26 (QPSK RB Number: 1 Offset: 5) Channel Highest



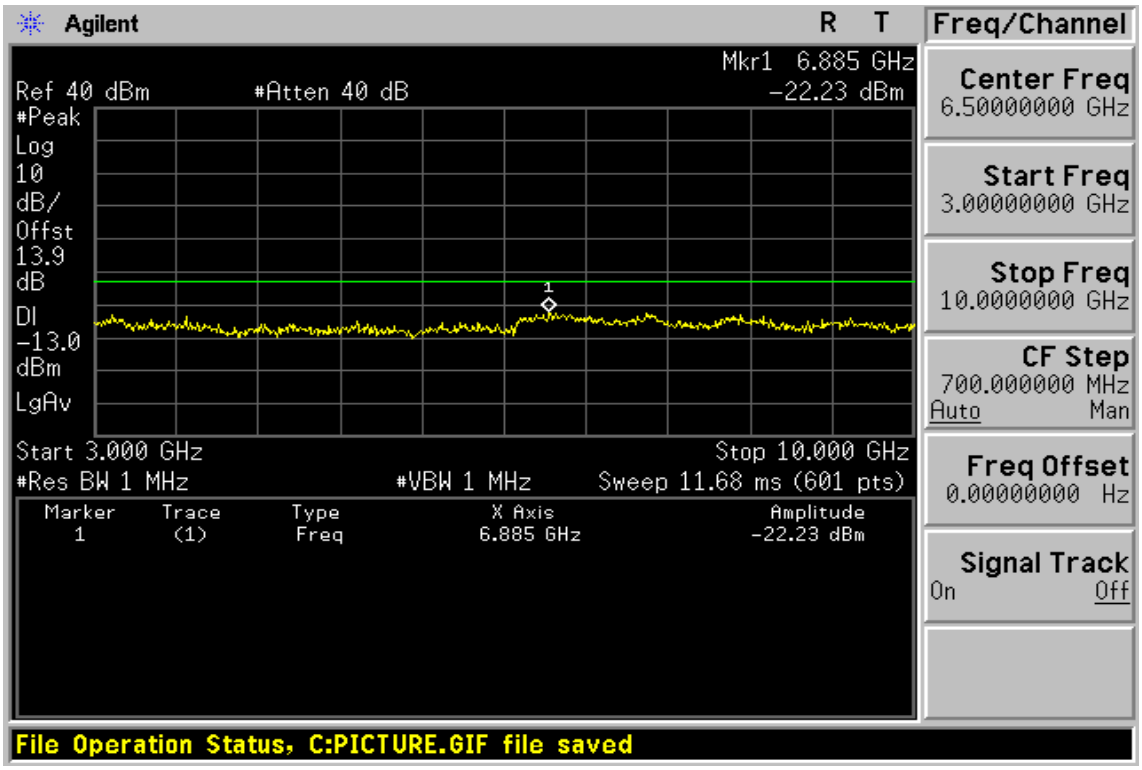


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Figure 9-139: Band edge emission at antenna terminals –1.4MHz BW LTE-Band 26 (QPSK RB Number: 6 Offset: 0) Channel Lowest

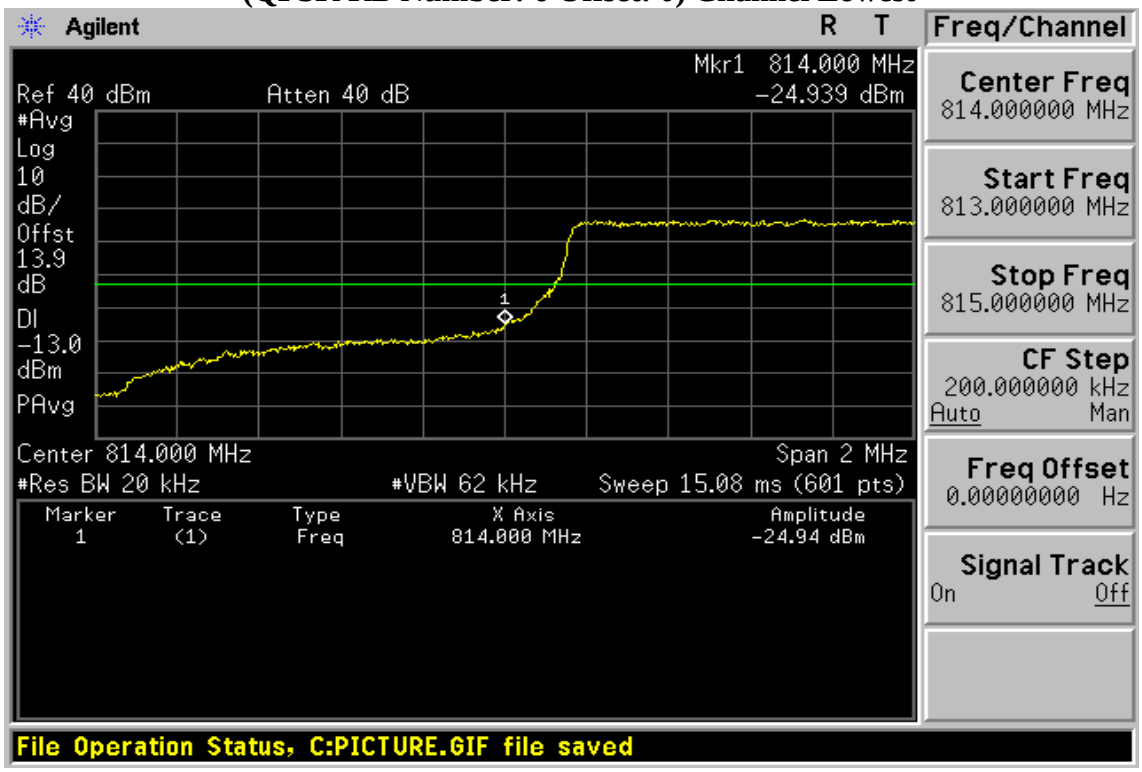

Figure 9-140: Band edge emission at antenna terminals –1.4MHz BW LTE-Band 26 (QPSK RB Number: 6 Offset: 0) Channel Highest

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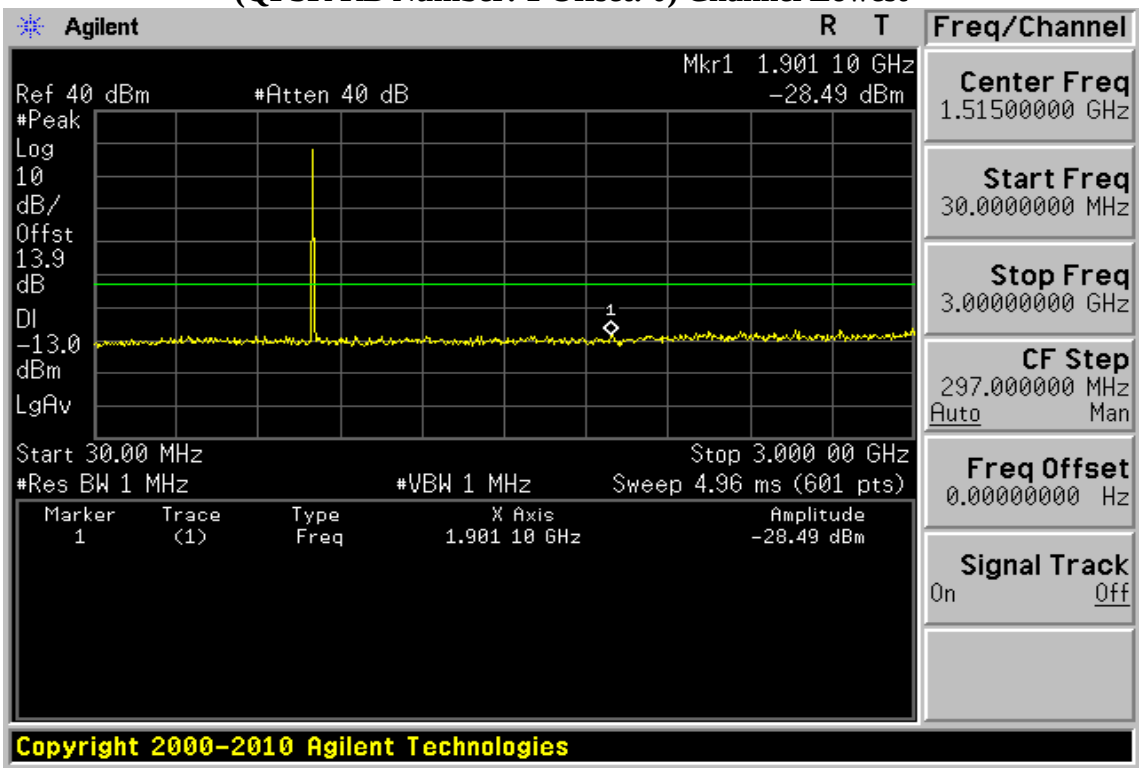
Figure 9-141: Out of Band emission at antenna terminals – 3MHz BW LTE-Band 26 (QPSK RB Number: 1 Offset: 0) Channel Lowest



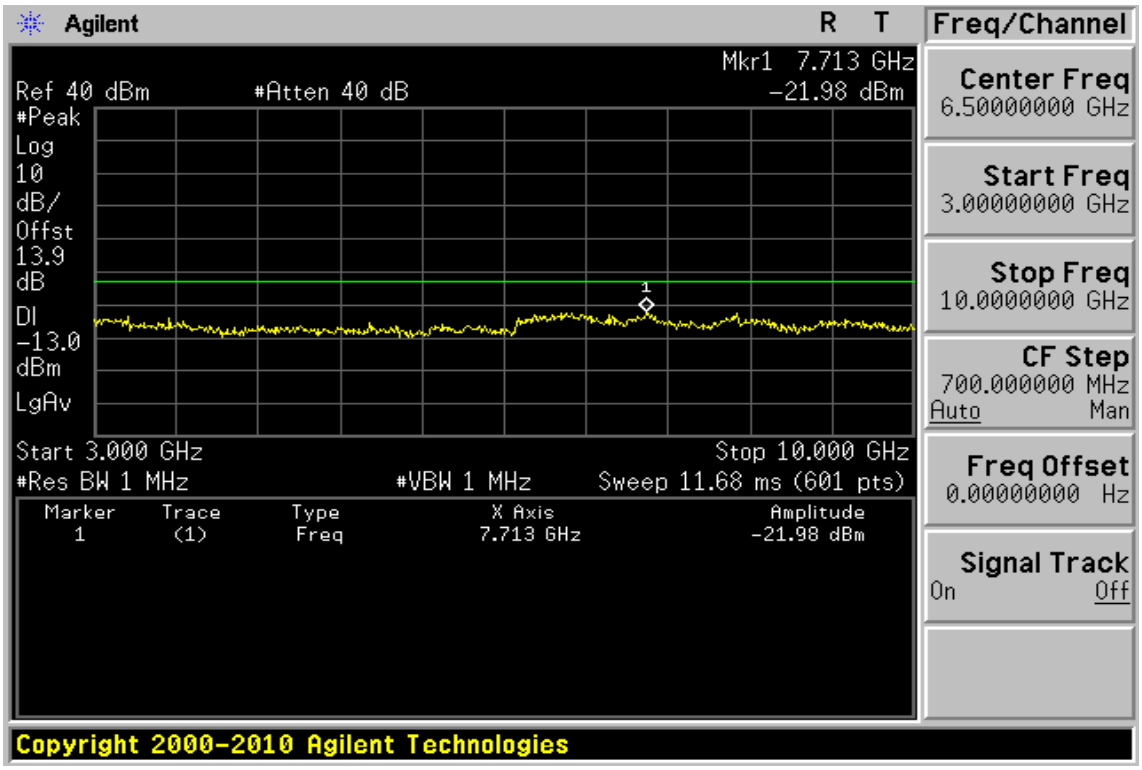


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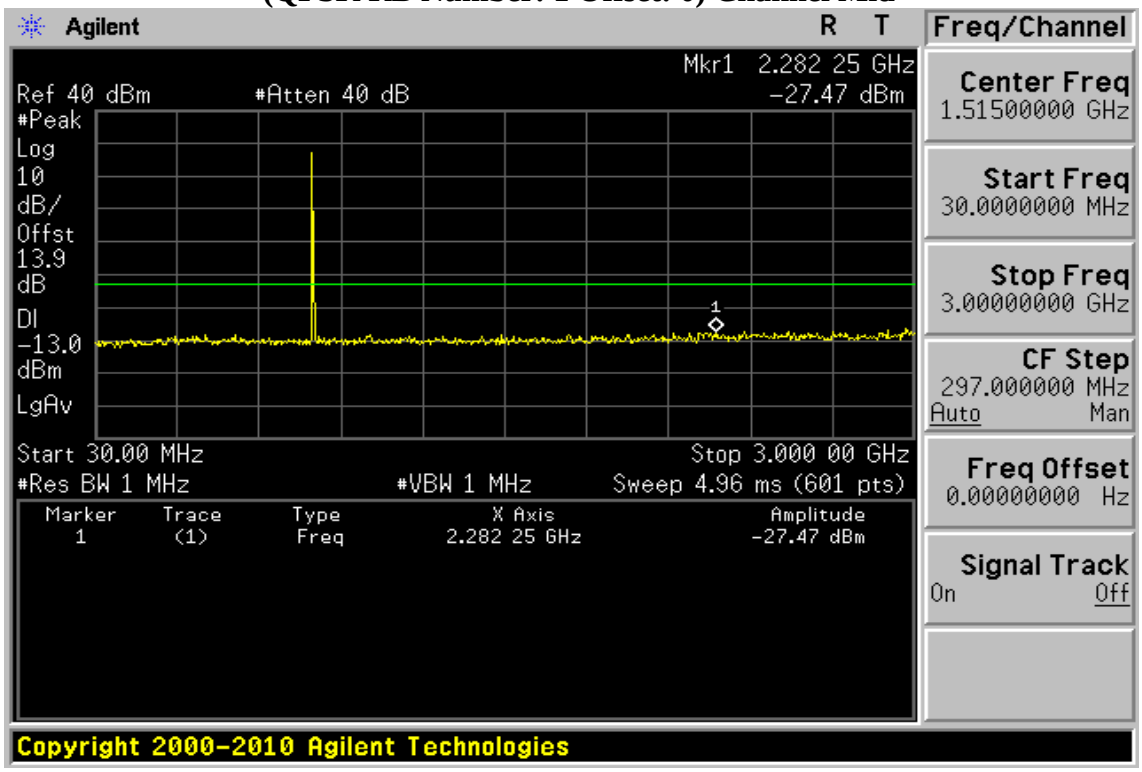
Figure 9-142: Out of Band emission at antenna terminals –3MHz BW LTE-Band 26 (QPSK RB Number: 1 Offset: 0) Channel Mid



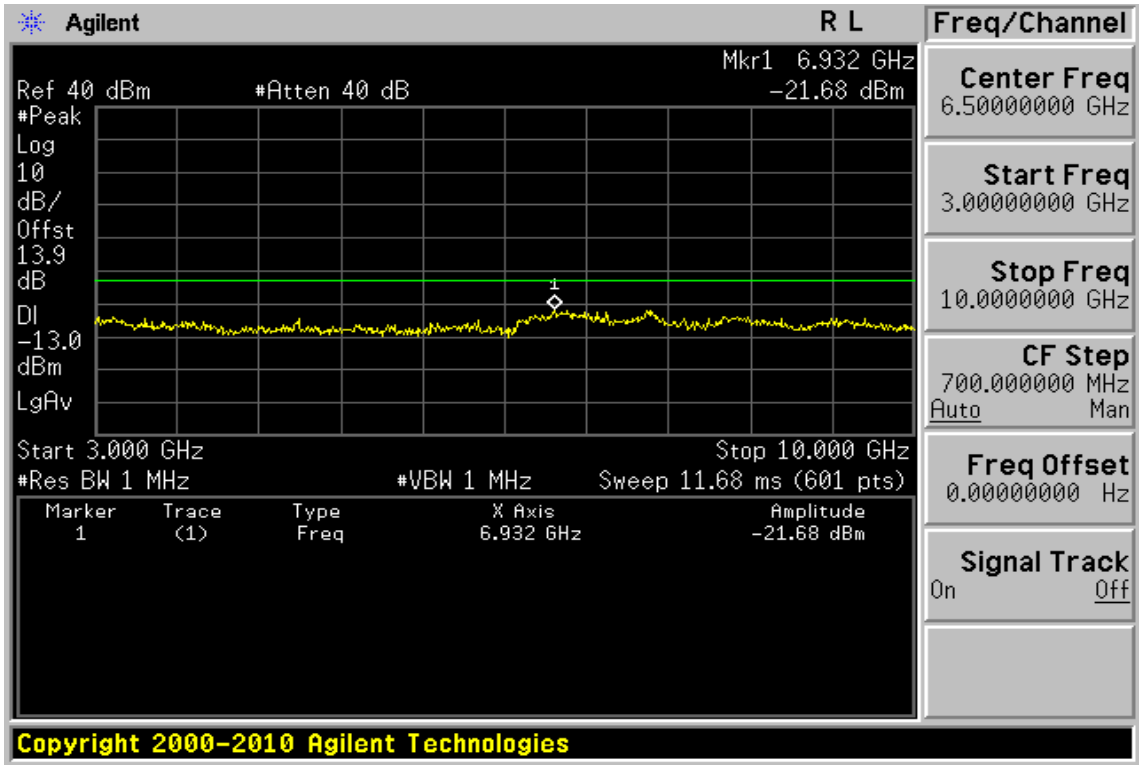


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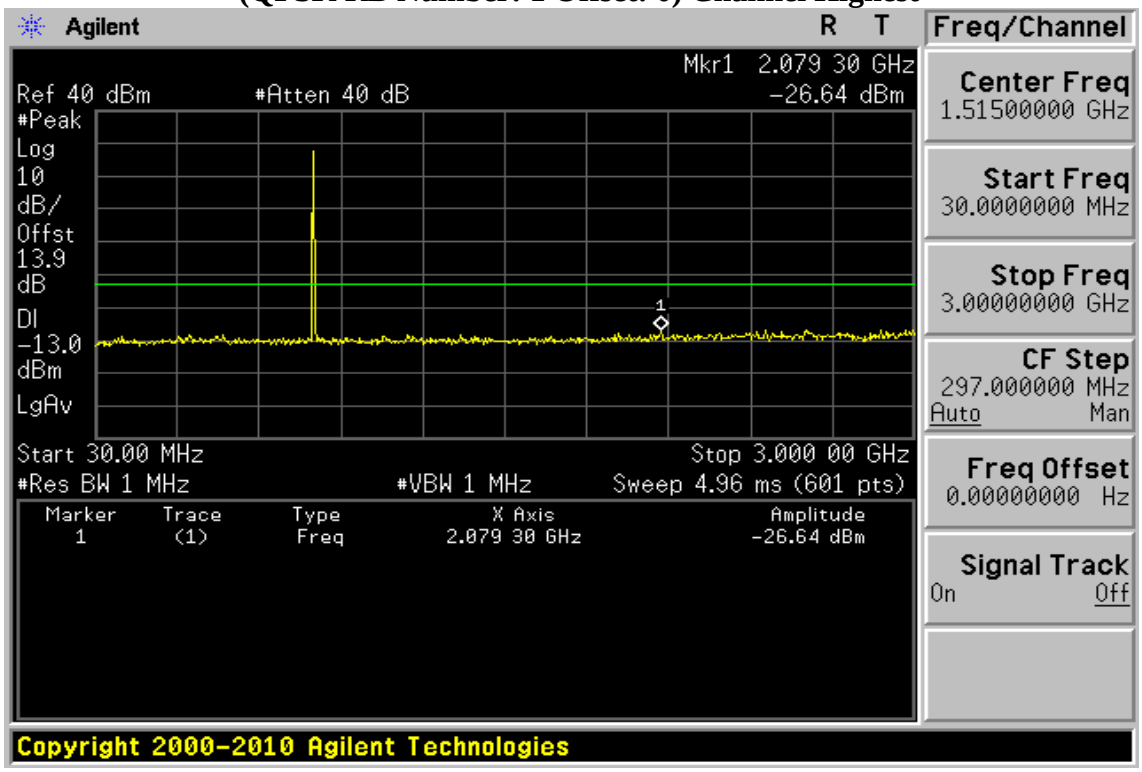
Figure 9-143: Out of Band emission at antenna terminals –3MHz BW LTE-Band 26 (QPSK RB Number: 1 Offset: 0) Channel Highest



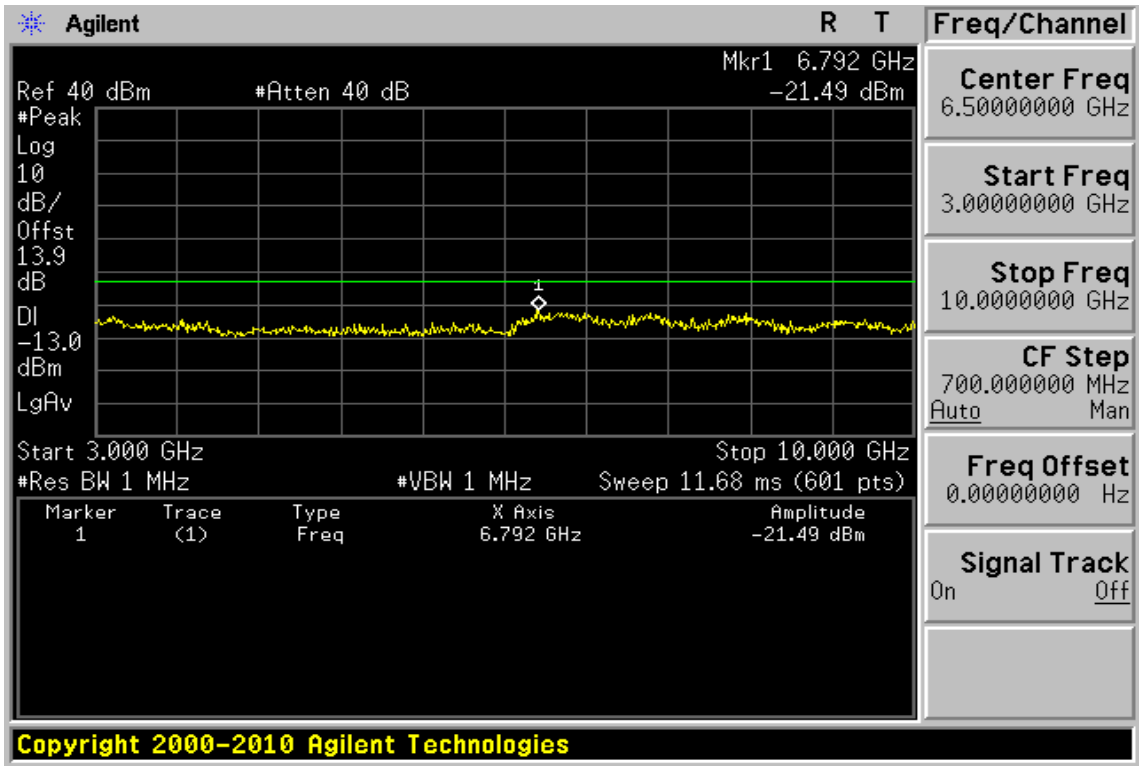


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Figure 9-144: Band edge emission at antenna terminals – 3MHz BW LTE-Band 26 (QPSK RB Number: 1 Offset: 0) Channel Lowest

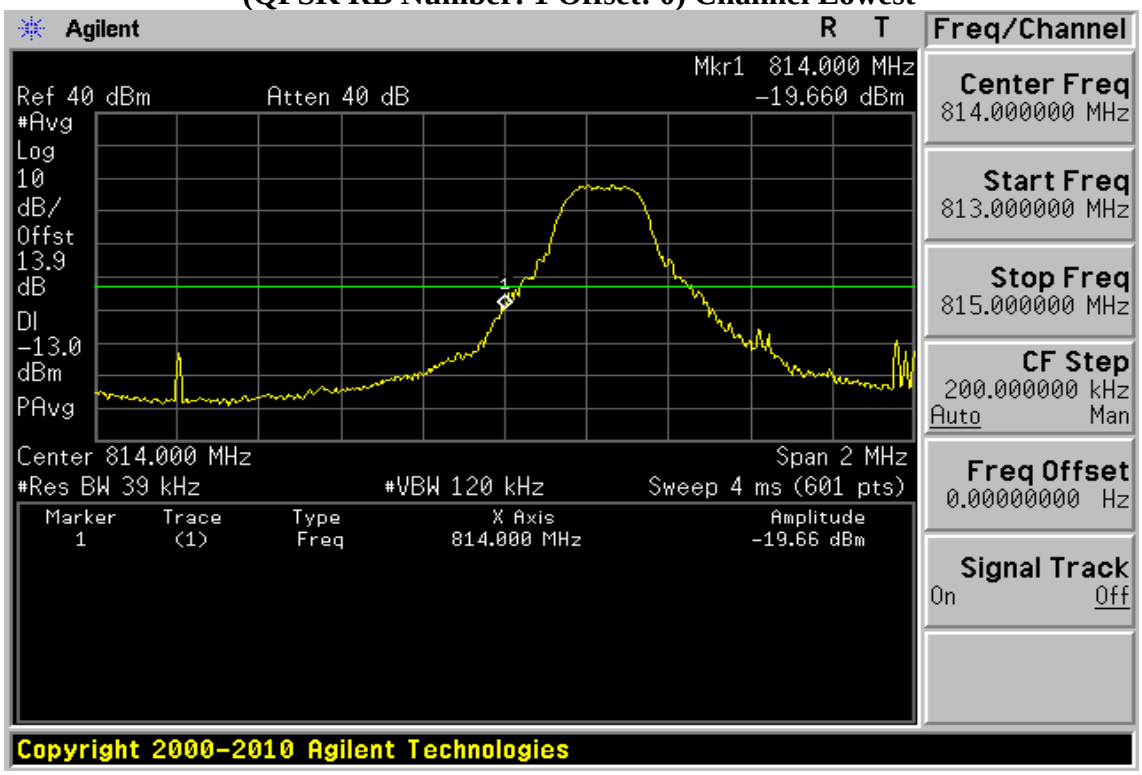

Figure 9-145: Band edge emission at antenna terminals –3MHz BW LTE-Band 26 (QPSK RB Number: 1 Offset: 14) Channel Highest

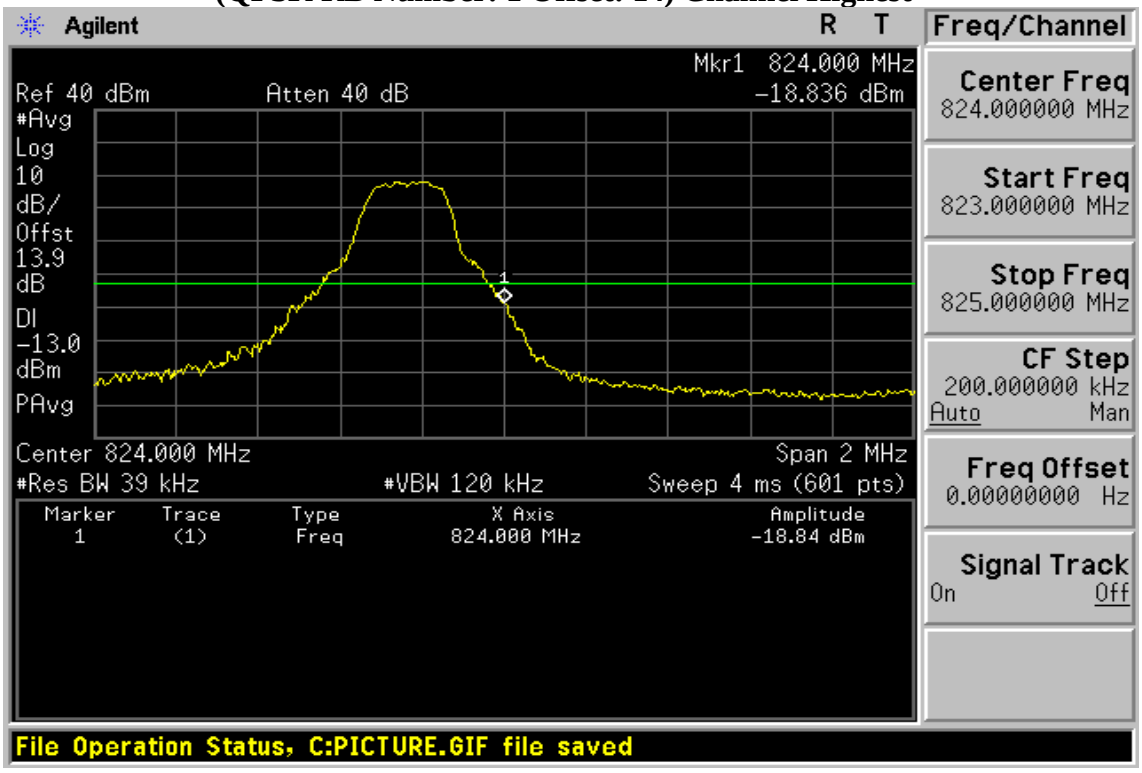

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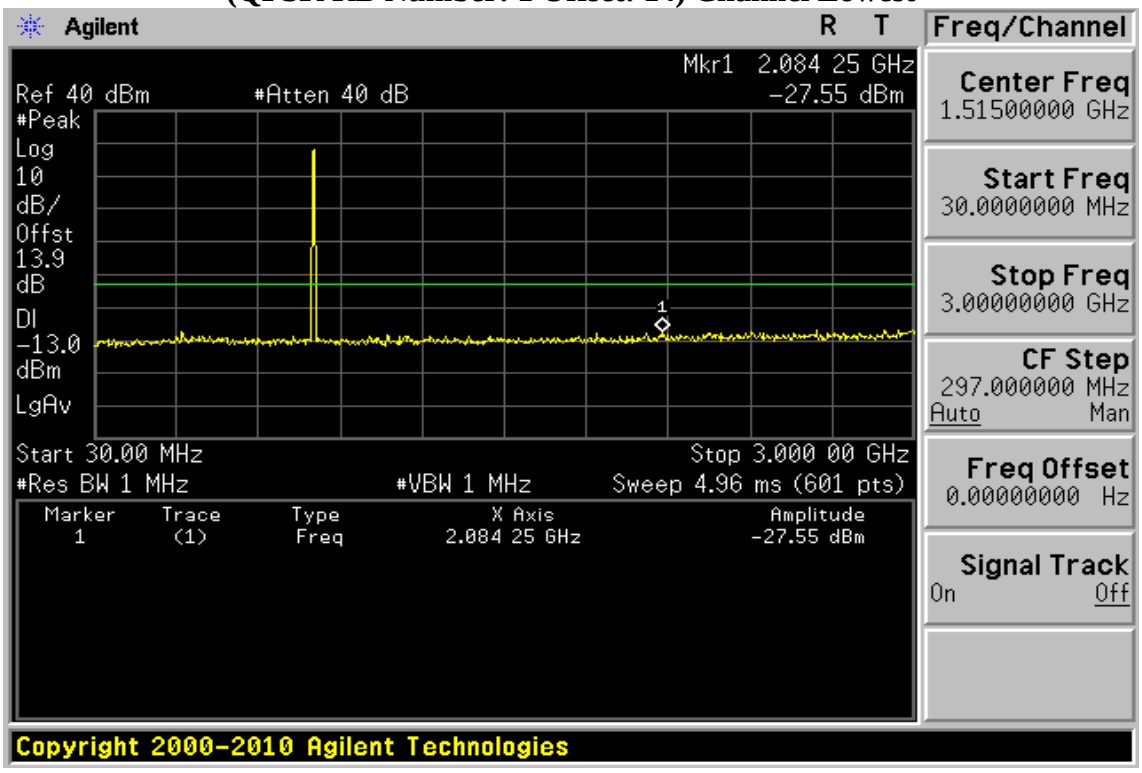
Figure 9-146: Out of Band emission at antenna terminals – 3MHz BW LTE-Band 26 (QPSK RB Number: 1 Offset: 14) Channel Lowest



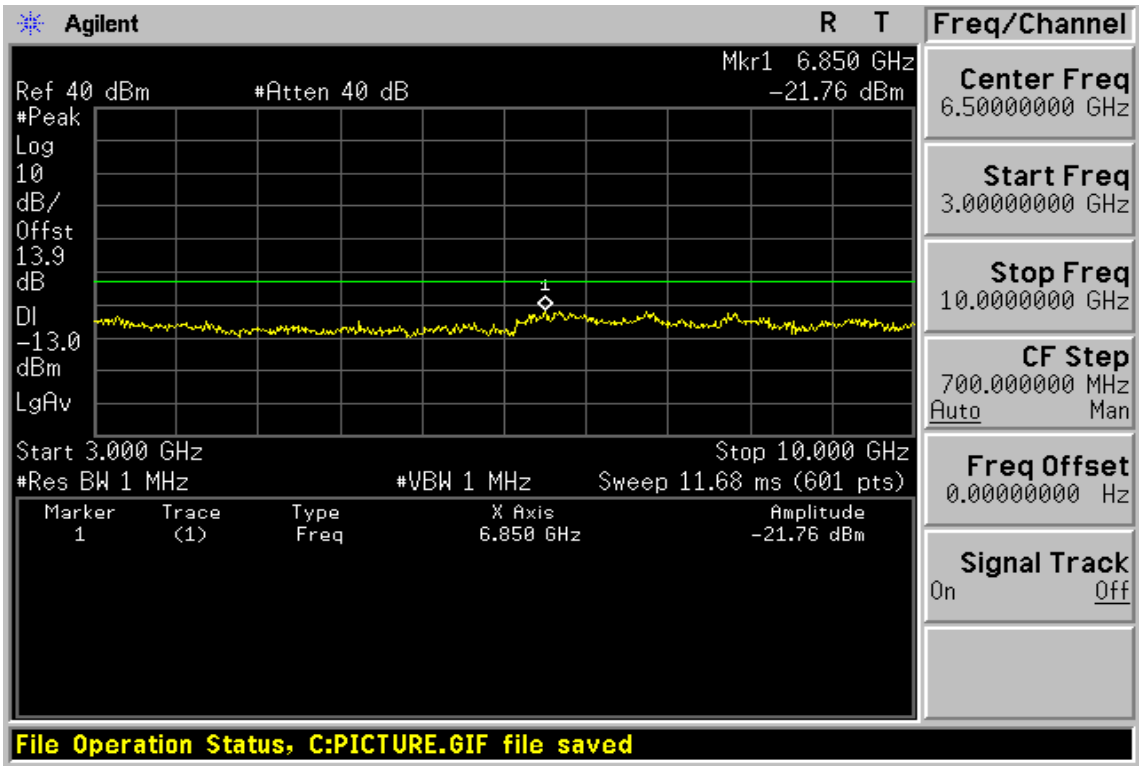


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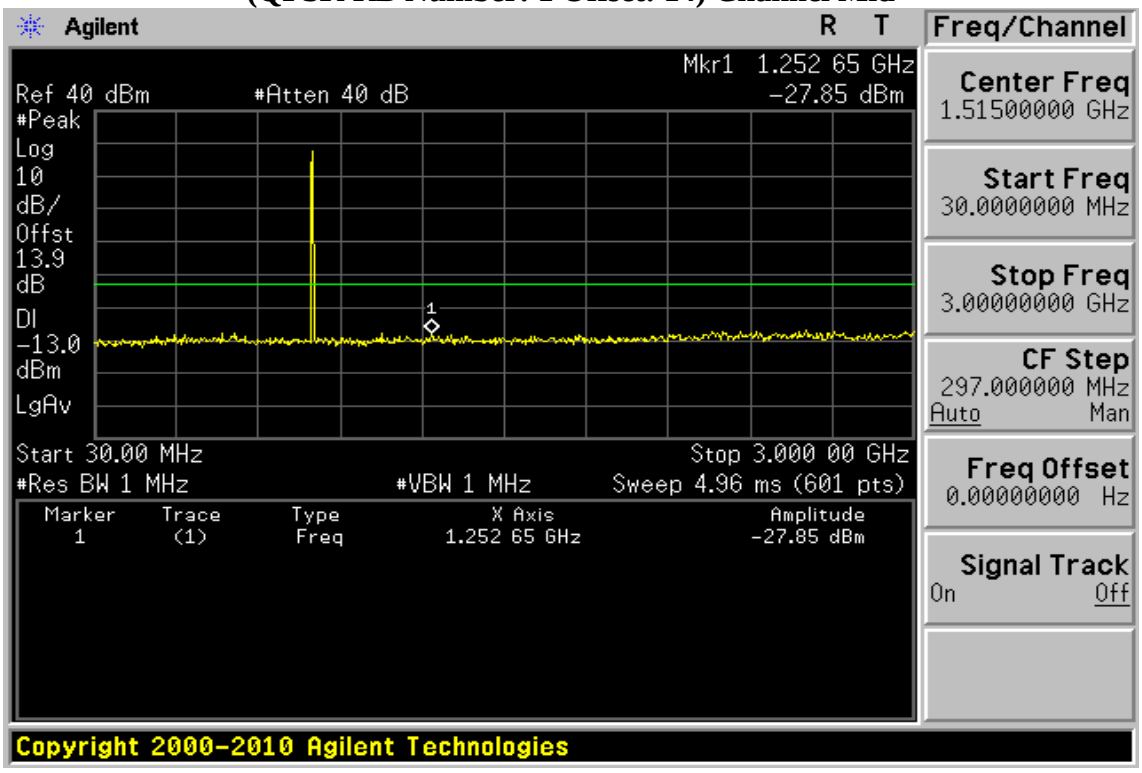
Figure 9-147: Out of Band emission at antenna terminals –3MHz BW LTE-Band 26 (QPSK RB Number: 1 Offset: 14) Channel Mid



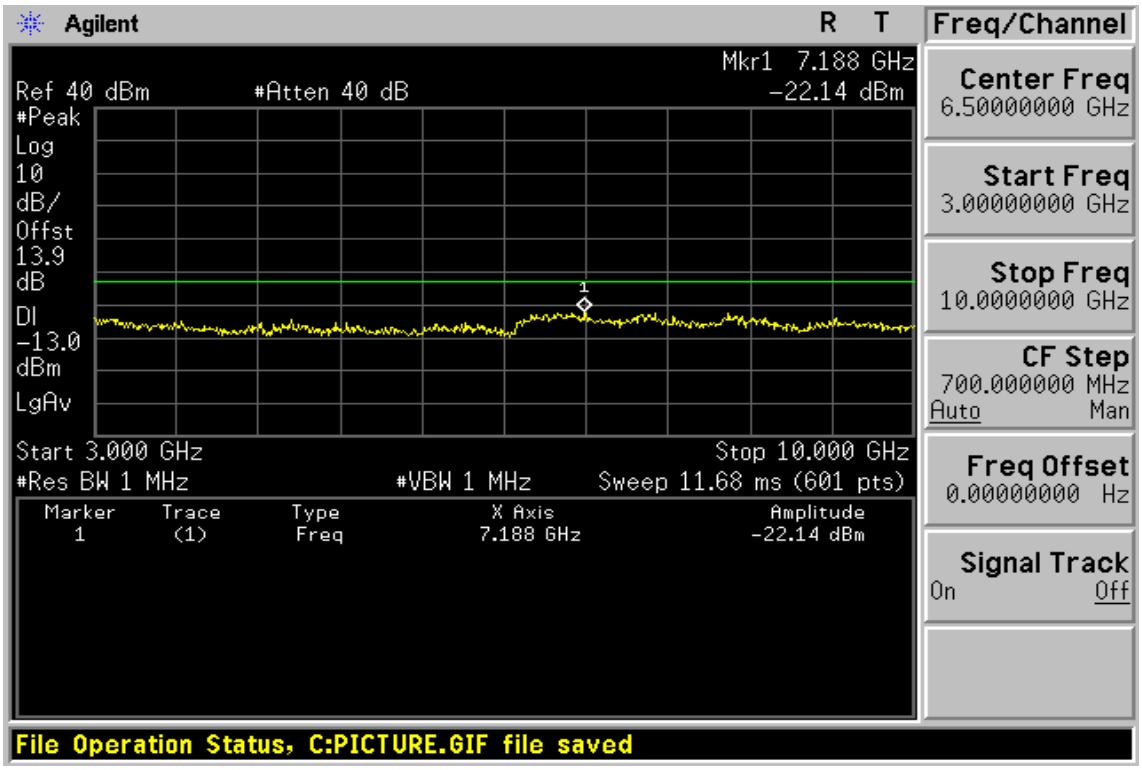


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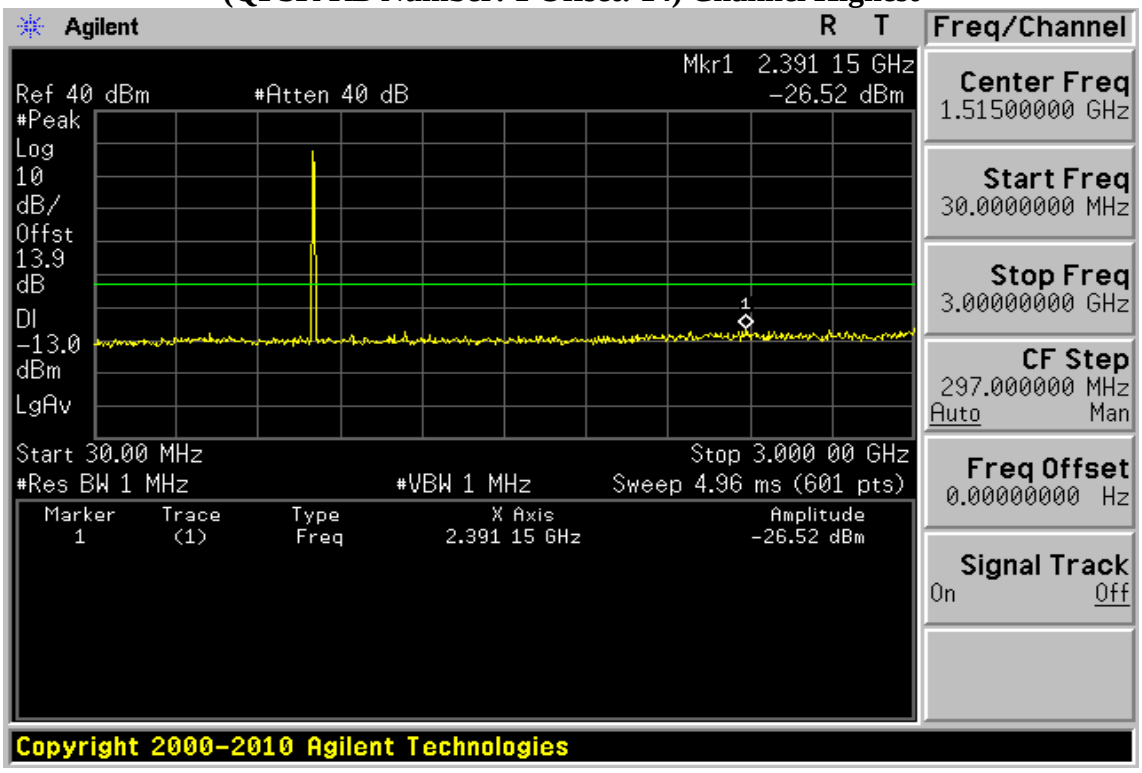
Figure 9-148: Out of Band emission at antenna terminals –3MHz BW LTE-Band 26 (QPSK RB Number: 1 Offset: 14) Channel Highest



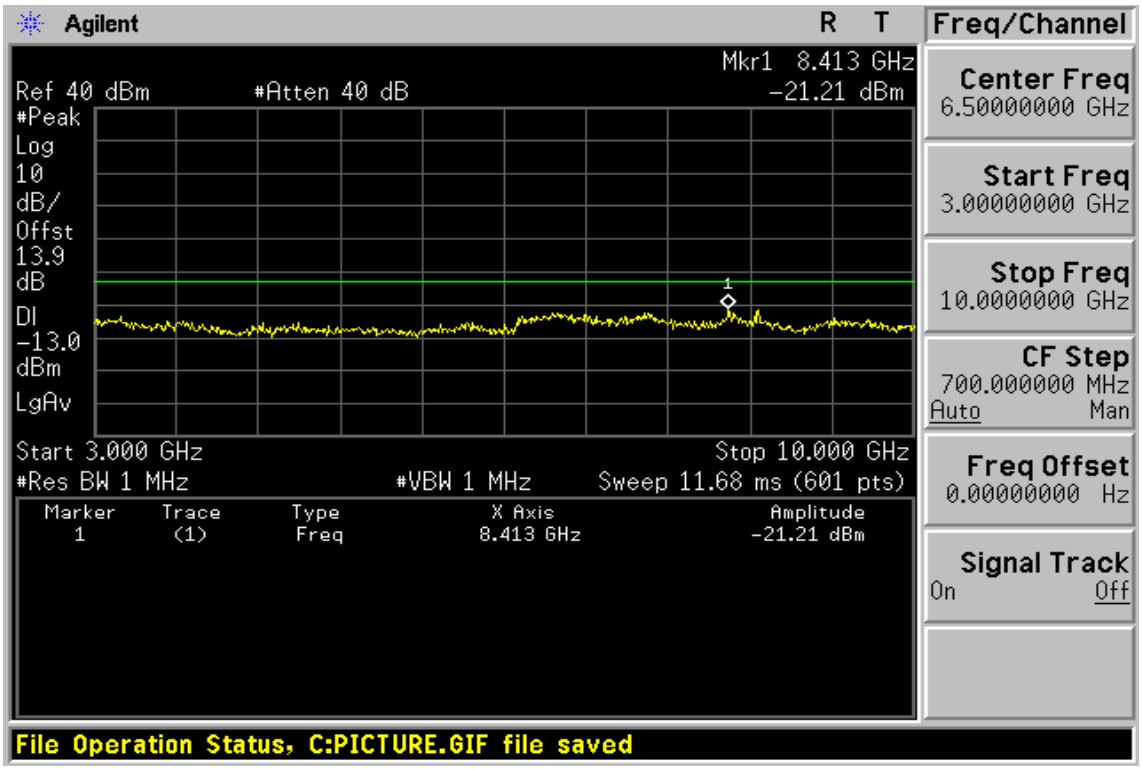


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Figure 9-149: Band edge emission at antenna terminals – 3MHz BW LTE-Band 26 (QPSK RB Number: 15 Offset: 0) Channel Lowest

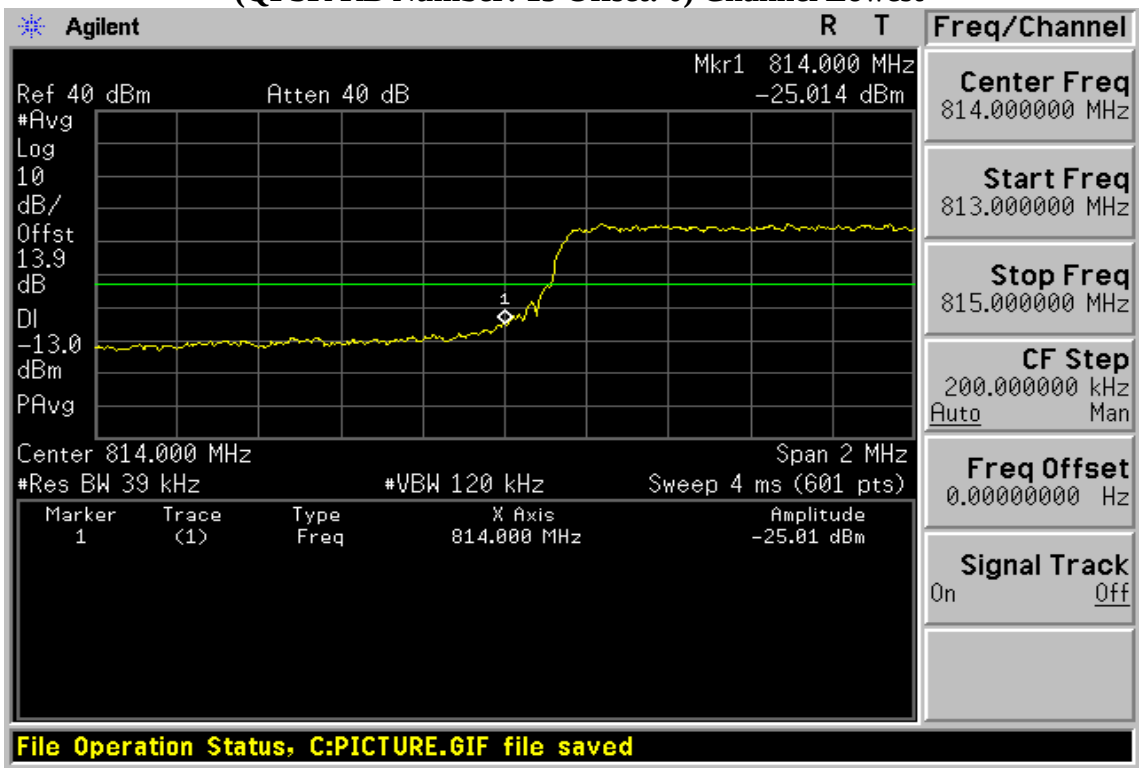

Figure 9-150: Band edge emission at antenna terminals –3MHz BW LTE-Band 26 (QPSK RB Number: 15 Offset: 0) Channel Highest

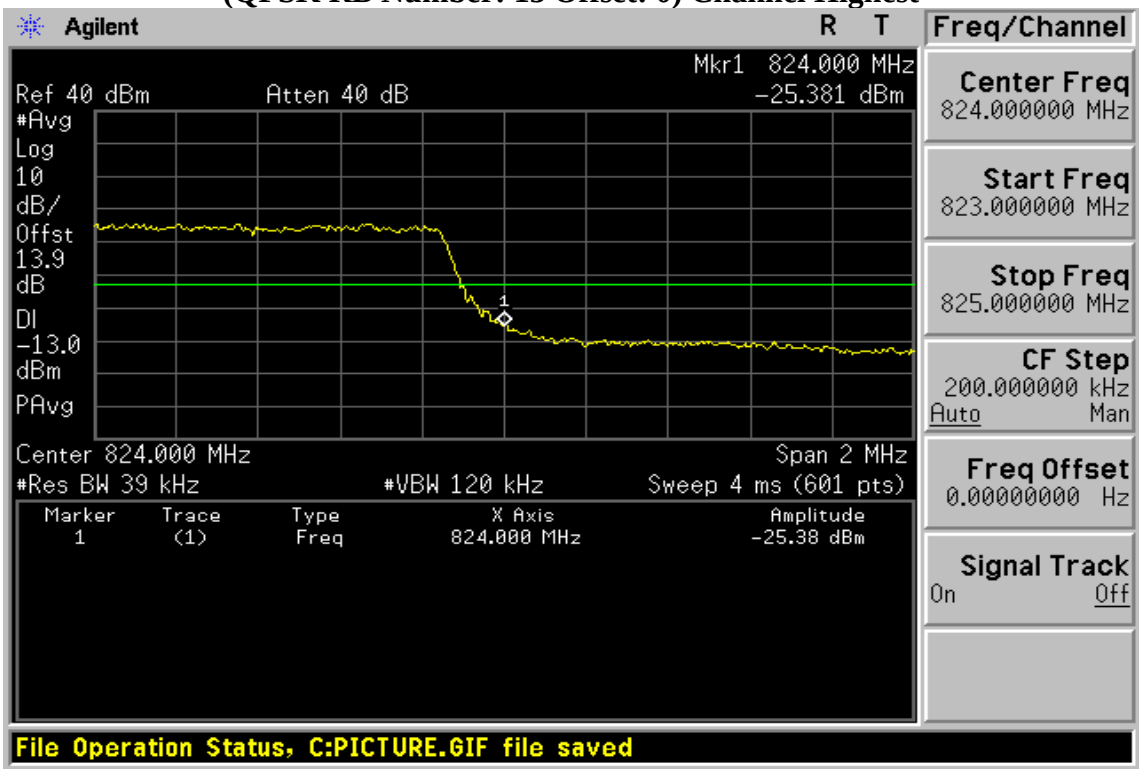

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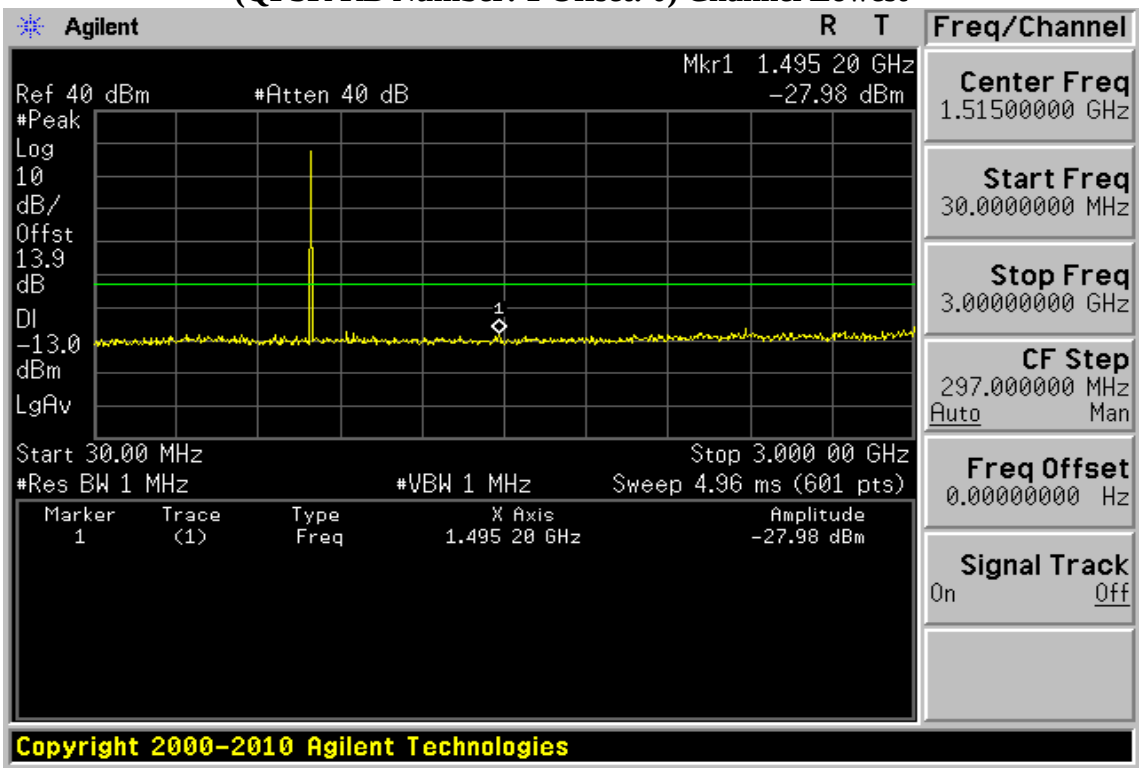
Figure 9-151: Out of Band emission at antenna terminals – 5MHz BW LTE-Band 26 (QPSK RB Number: 1 Offset: 0) Channel Lowest



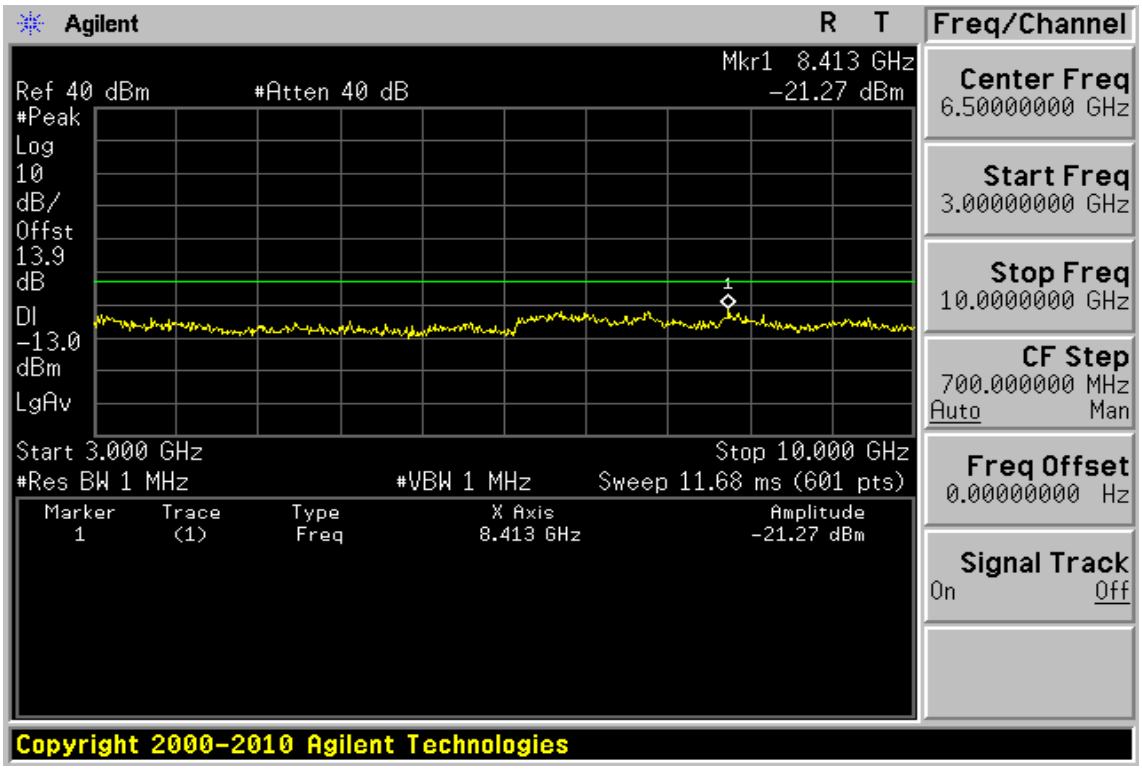


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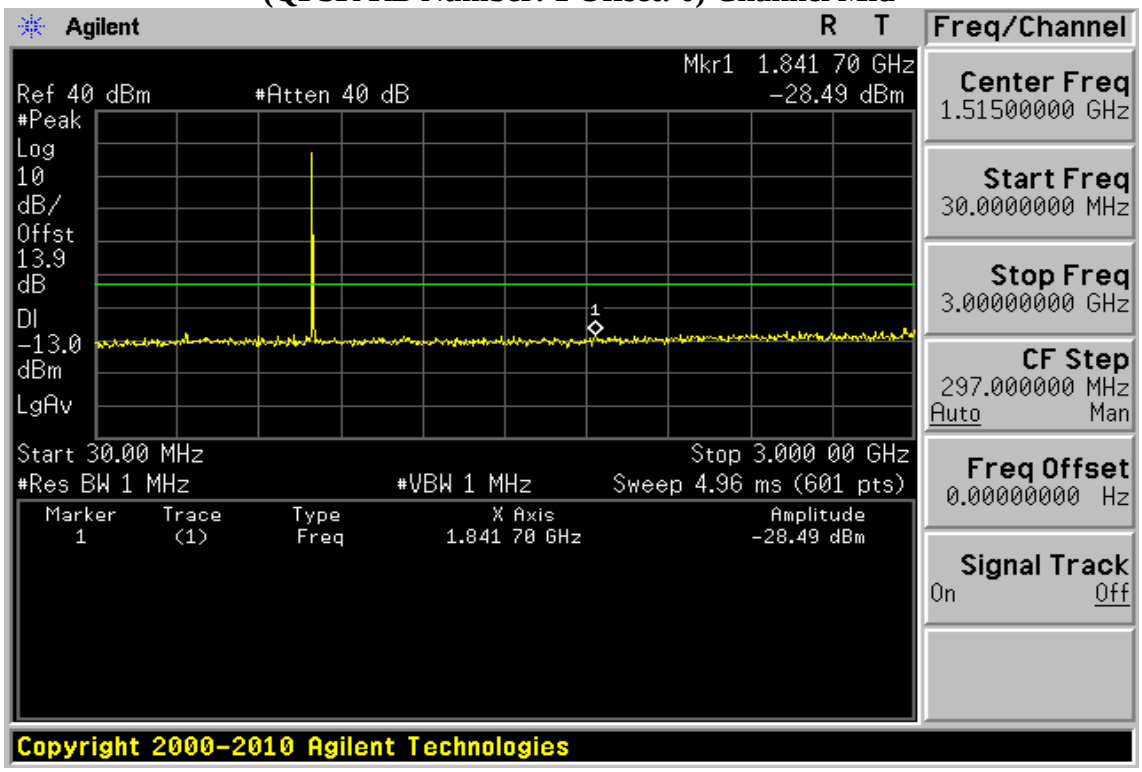
Figure 9-152: Out of Band emission at antenna terminals – 5MHz BW LTE-Band 26 (QPSK RB Number: 1 Offset: 0) Channel Mid



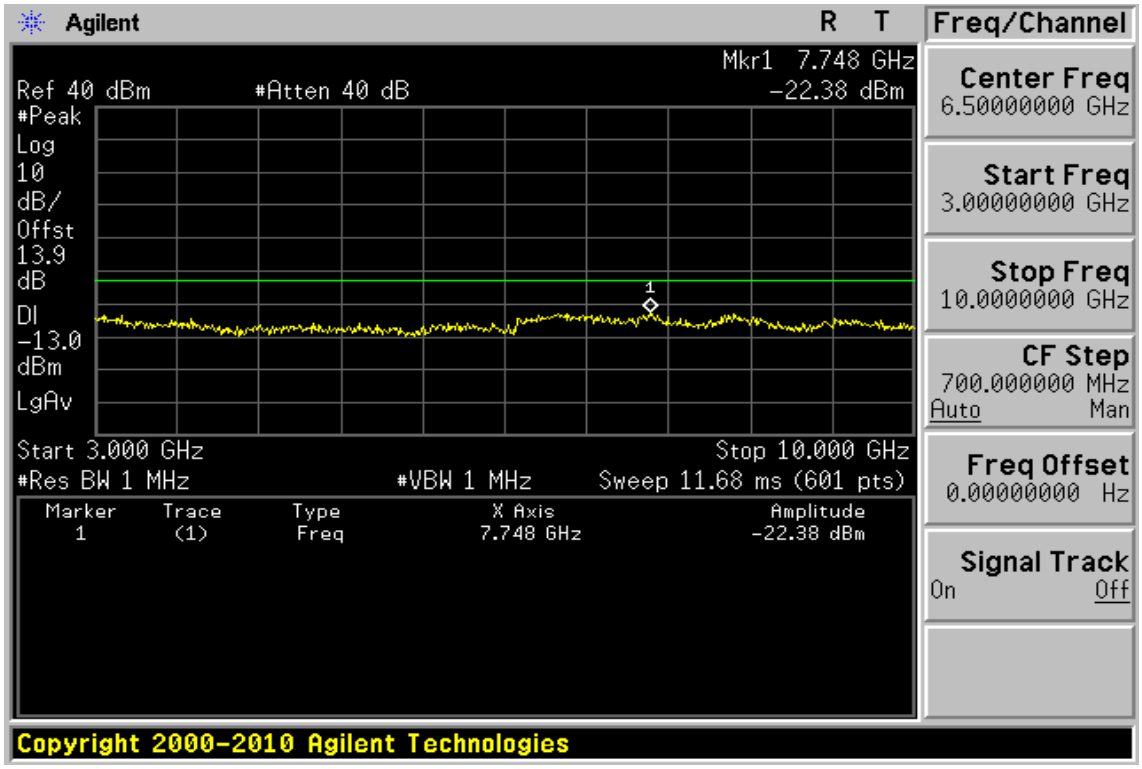


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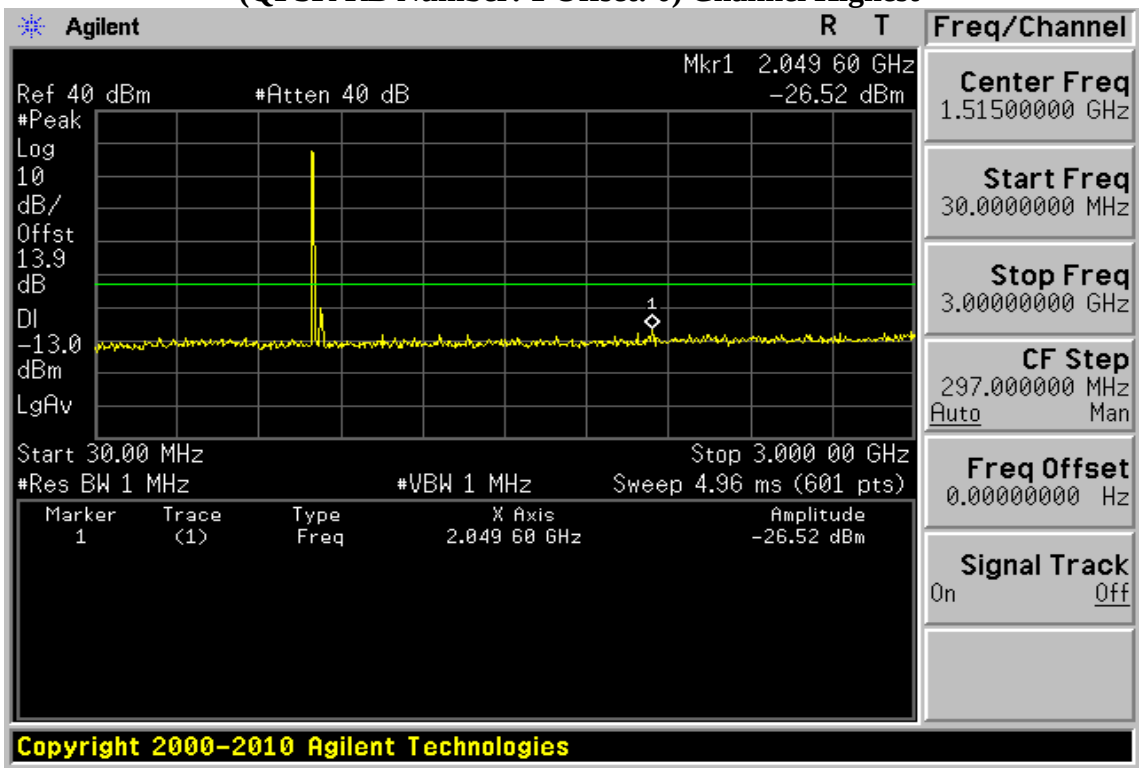
Figure 9-153: Out of Band emission at antenna terminals –5MHz BW LTE-Band 26 (QPSK RB Number: 1 Offset: 0) Channel Highest



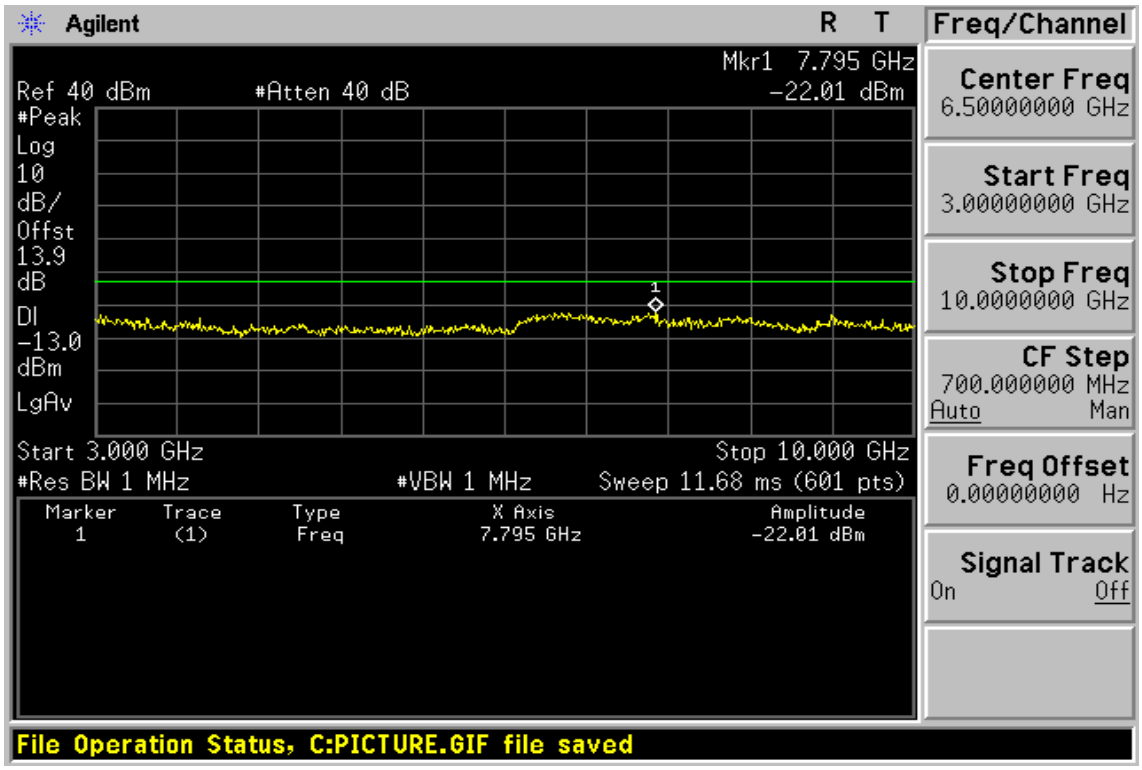


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Figure 9-154: Band edge emission at antenna terminals – 5MHz BW LTE-Band 26 (QPSK RB Number: 1 Offset: 0) Channel Lowest

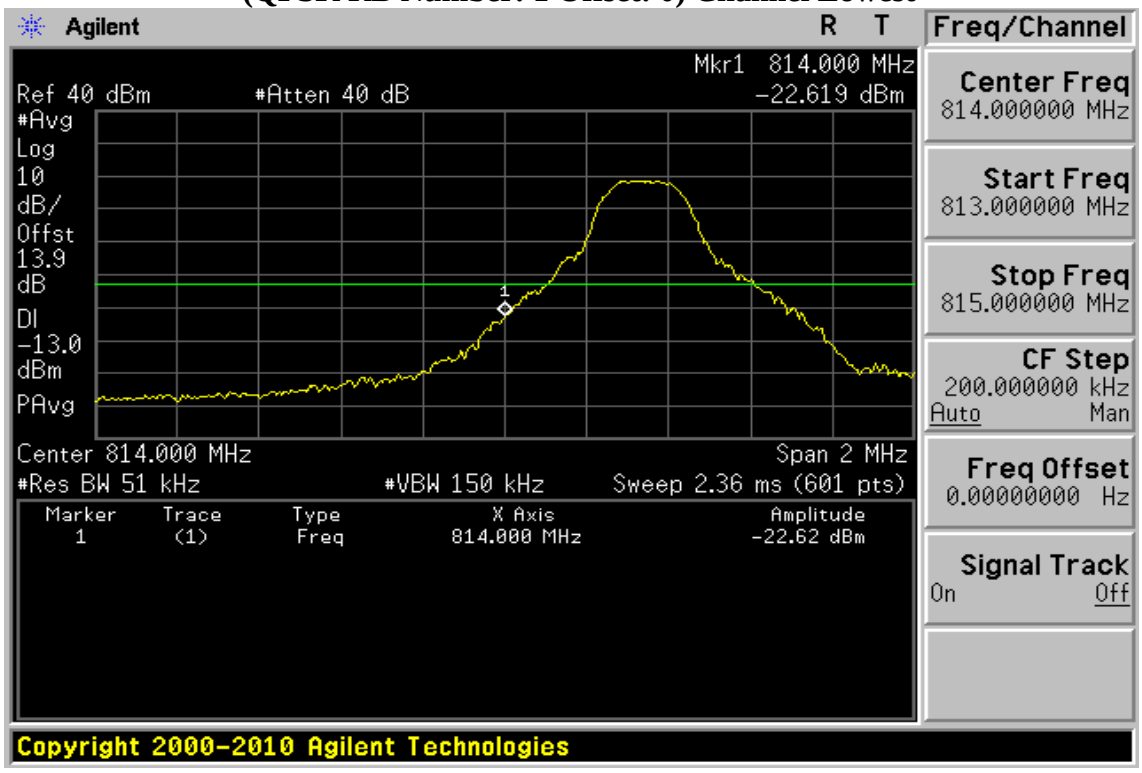

Figure 9-155: Band edge emission at antenna terminals –5MHz BW LTE-Band 26 (QPSK RB Number: 1 Offset: 24) Channel Highest

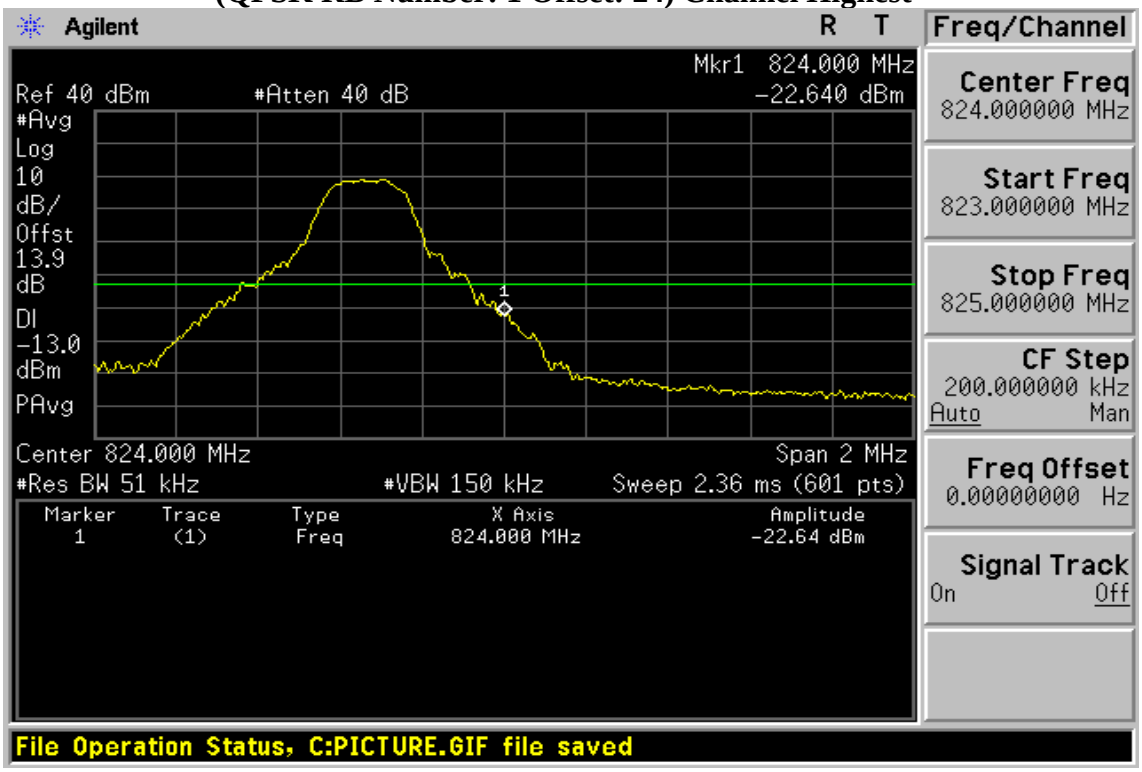

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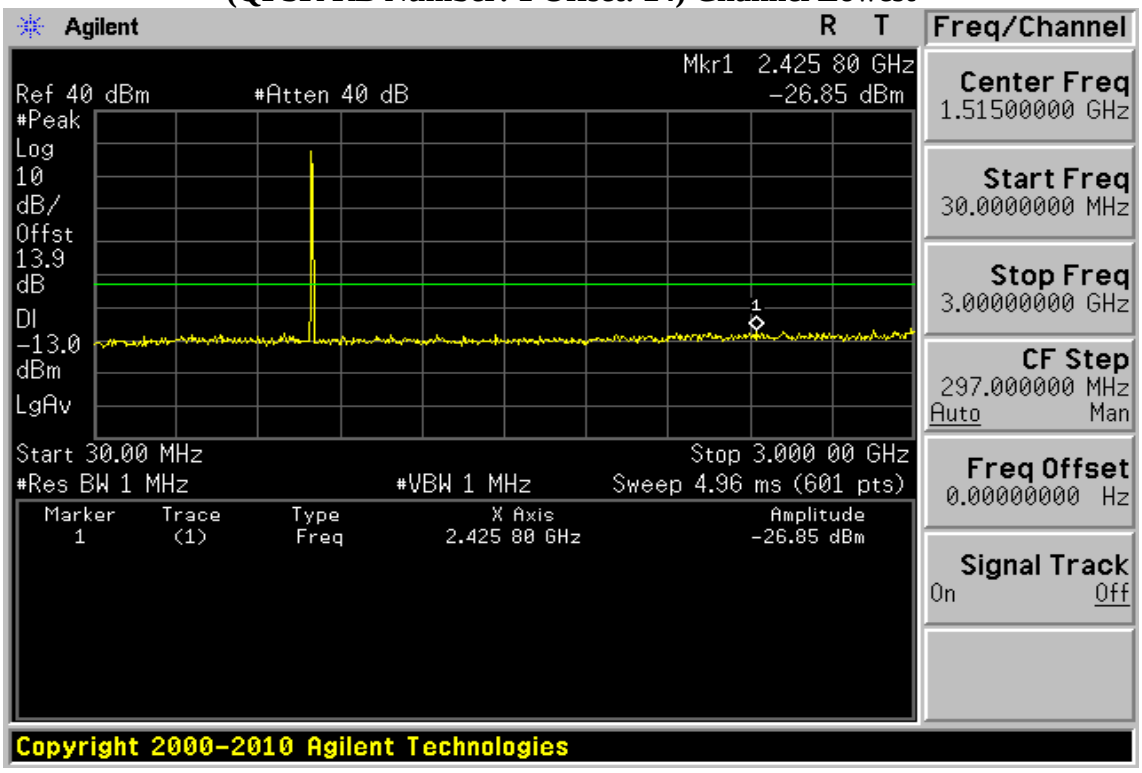
Figure 9-156: Out of Band emission at antenna terminals – 5MHz BW LTE-Band 26 (QPSK RB Number: 1 Offset: 24) Channel Lowest



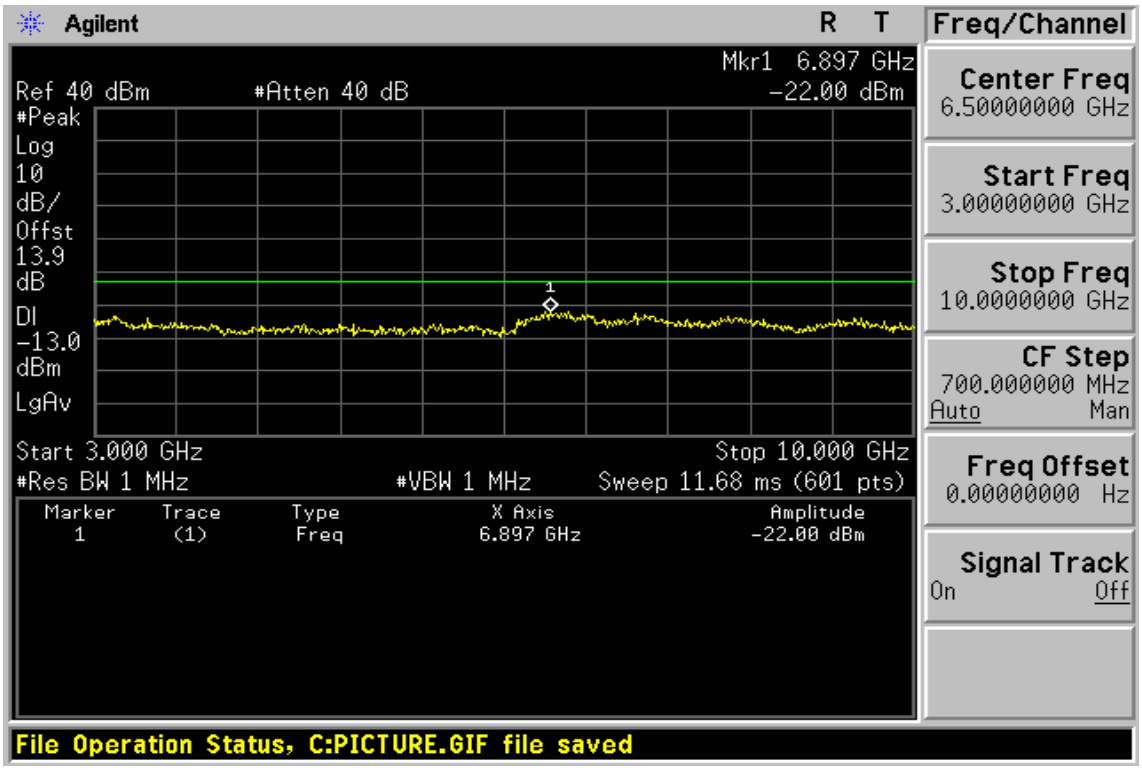


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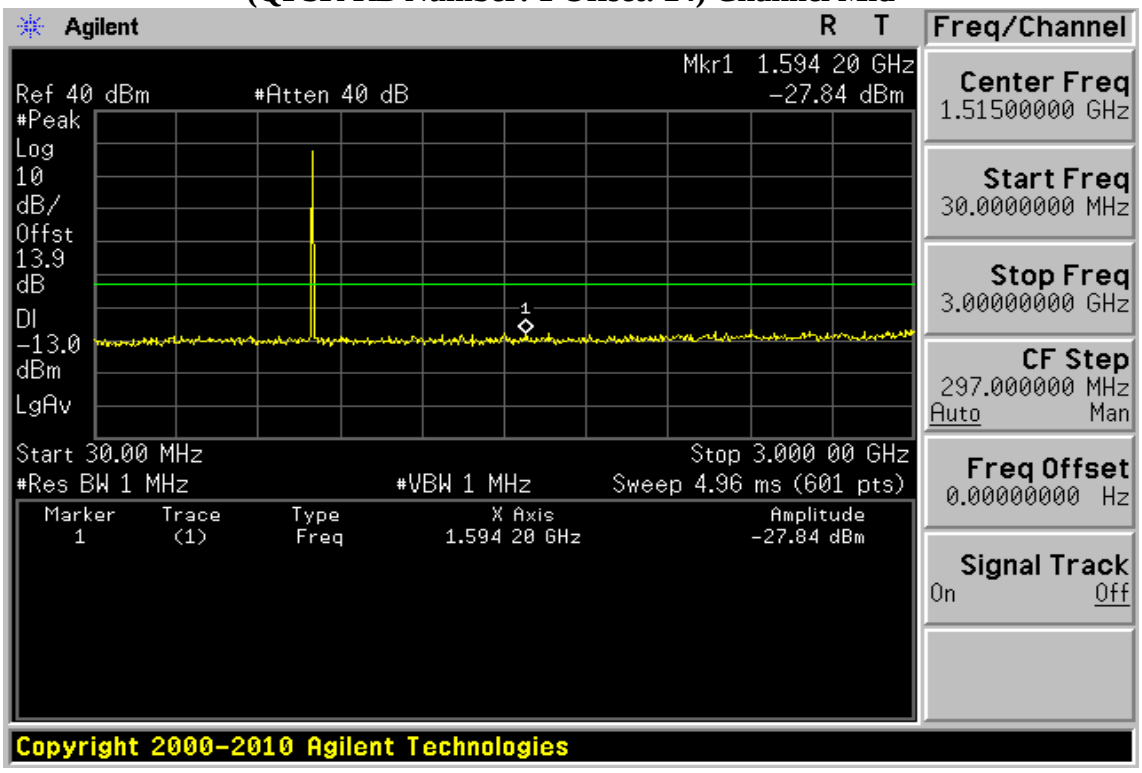
Figure 9-157: Out of Band emission at antenna terminals –5MHz BW LTE-Band 26 (QPSK RB Number: 1 Offset: 24) Channel Mid



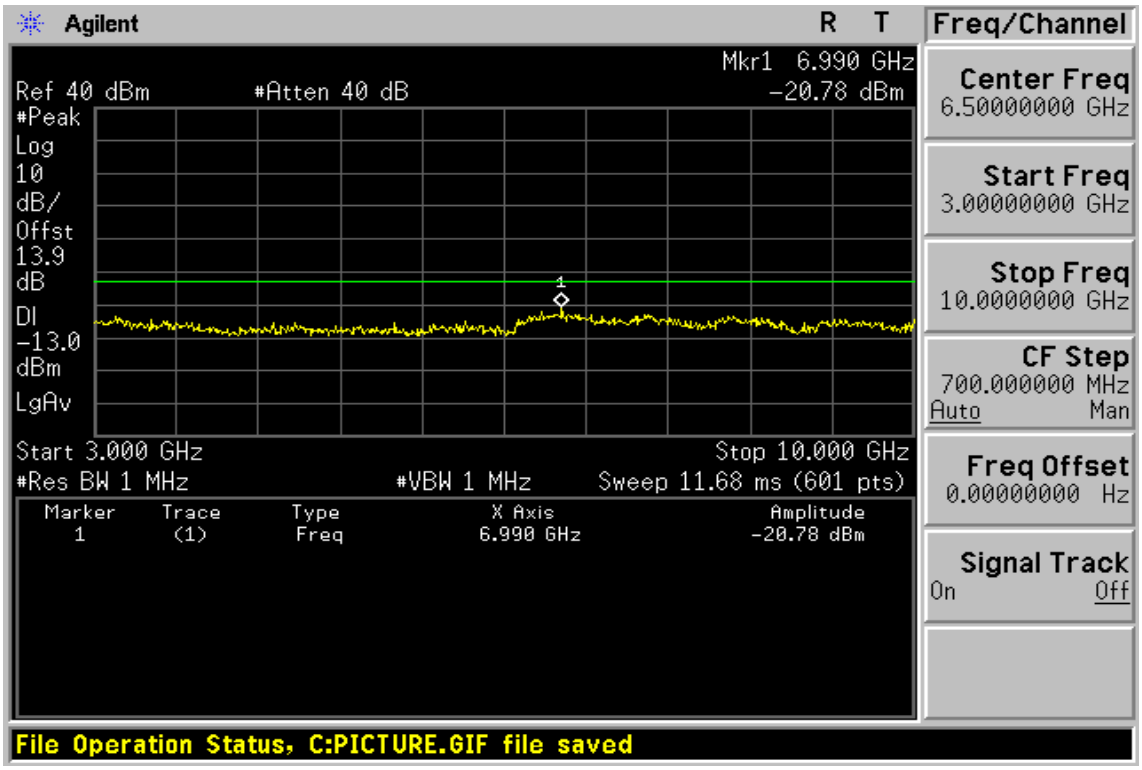


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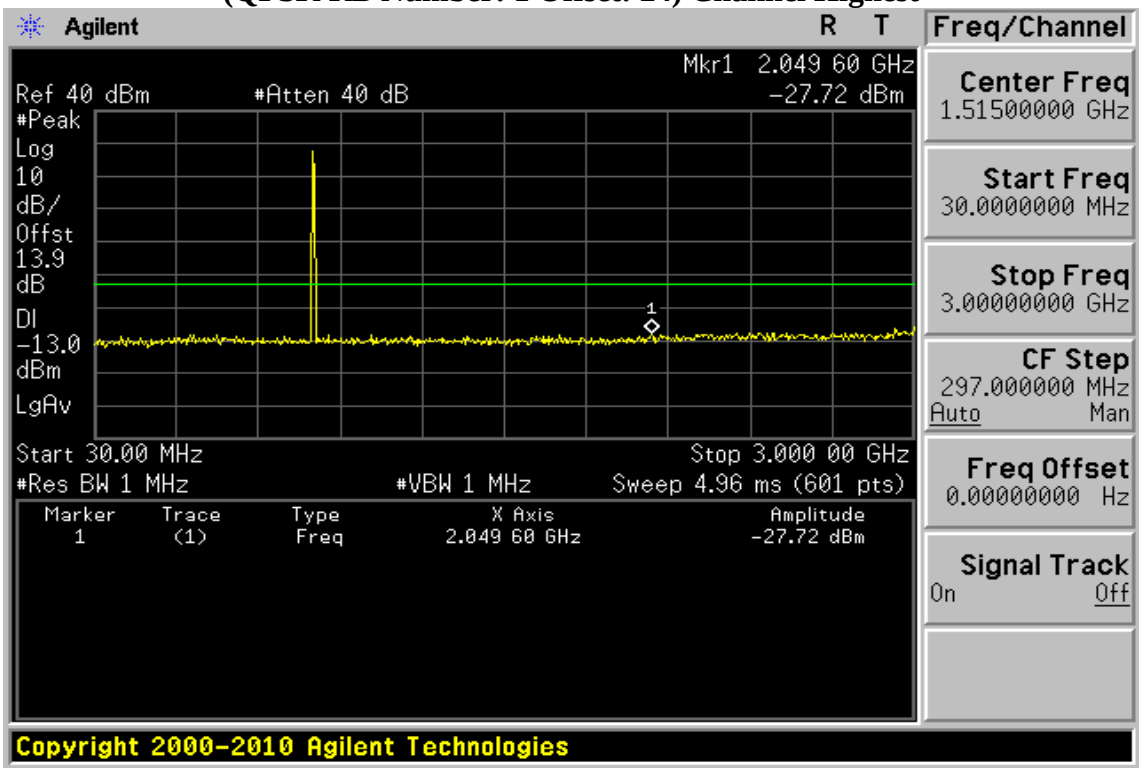
Figure 9-158: Out of Band emission at antenna terminals –5MHz BW LTE-Band 26 (QPSK RB Number: 1 Offset: 24) Channel Highest



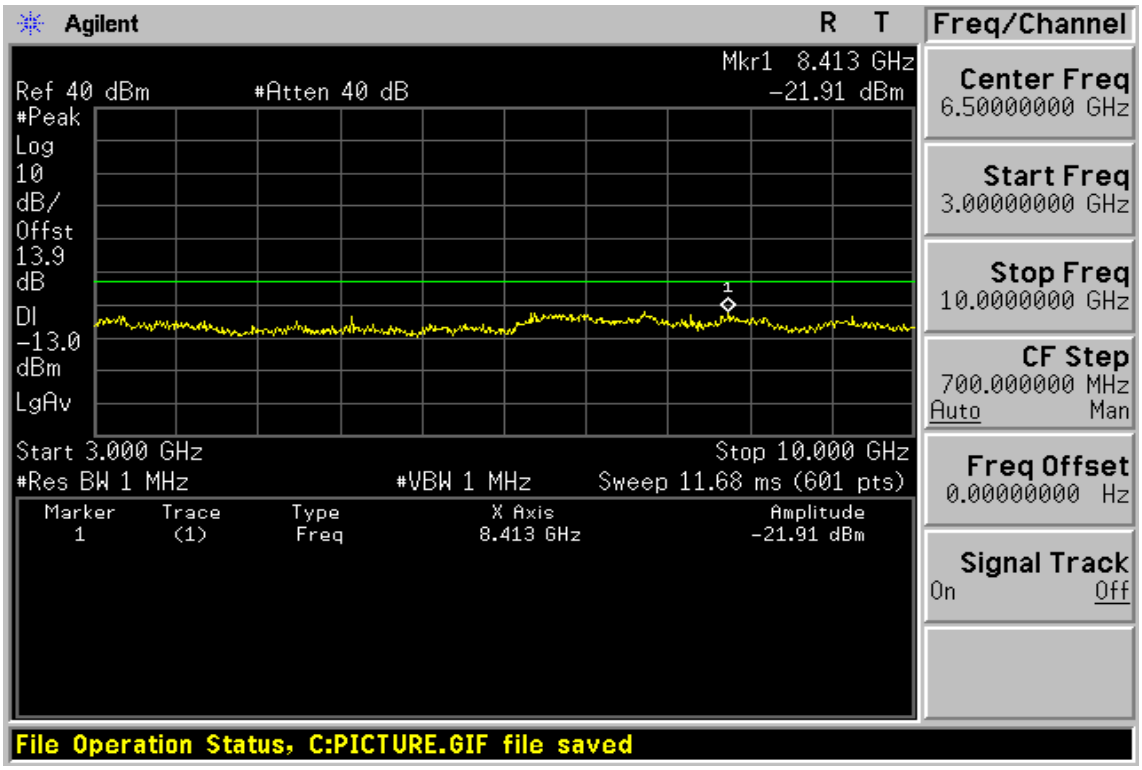


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Figure 9-159: Band edge emission at antenna terminals – 5MHz BW LTE-Band 26 (QPSK RB Number: 25 Offset: 0) Channel Lowest

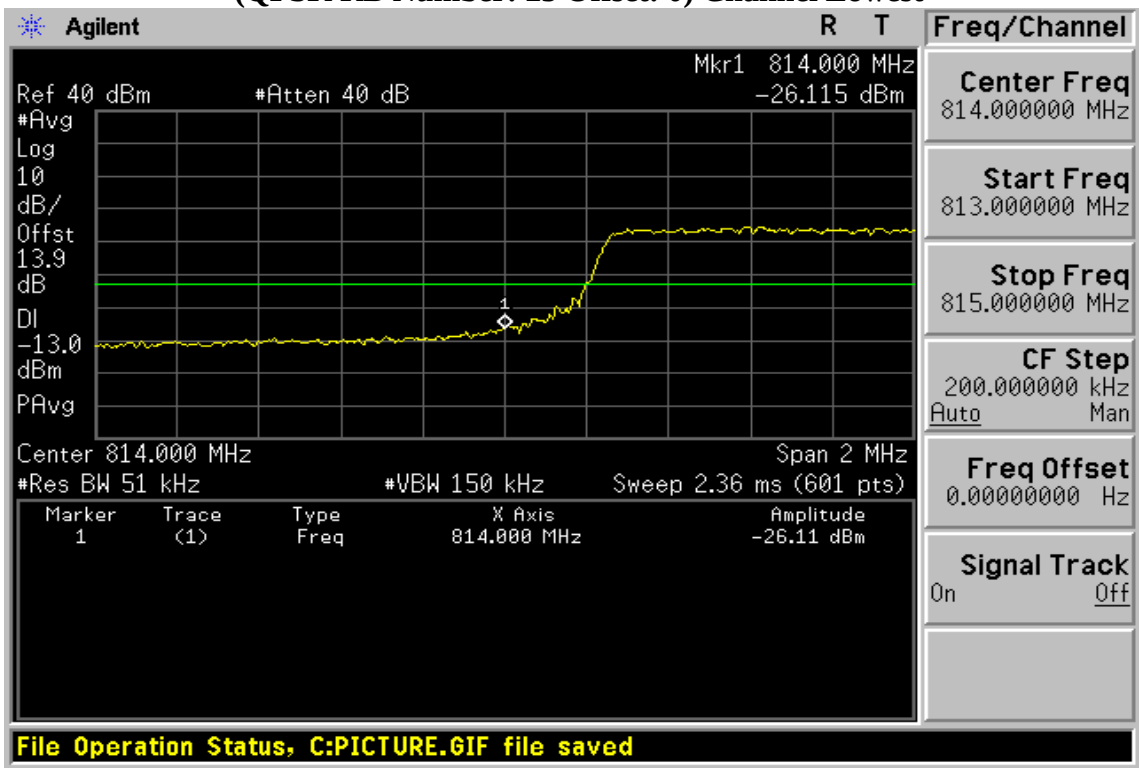

Figure 9-160: Band edge emission at antenna terminals –5MHz BW LTE-Band 26 (QPSK RB Number: 25 Offset: 0) Channel Highest

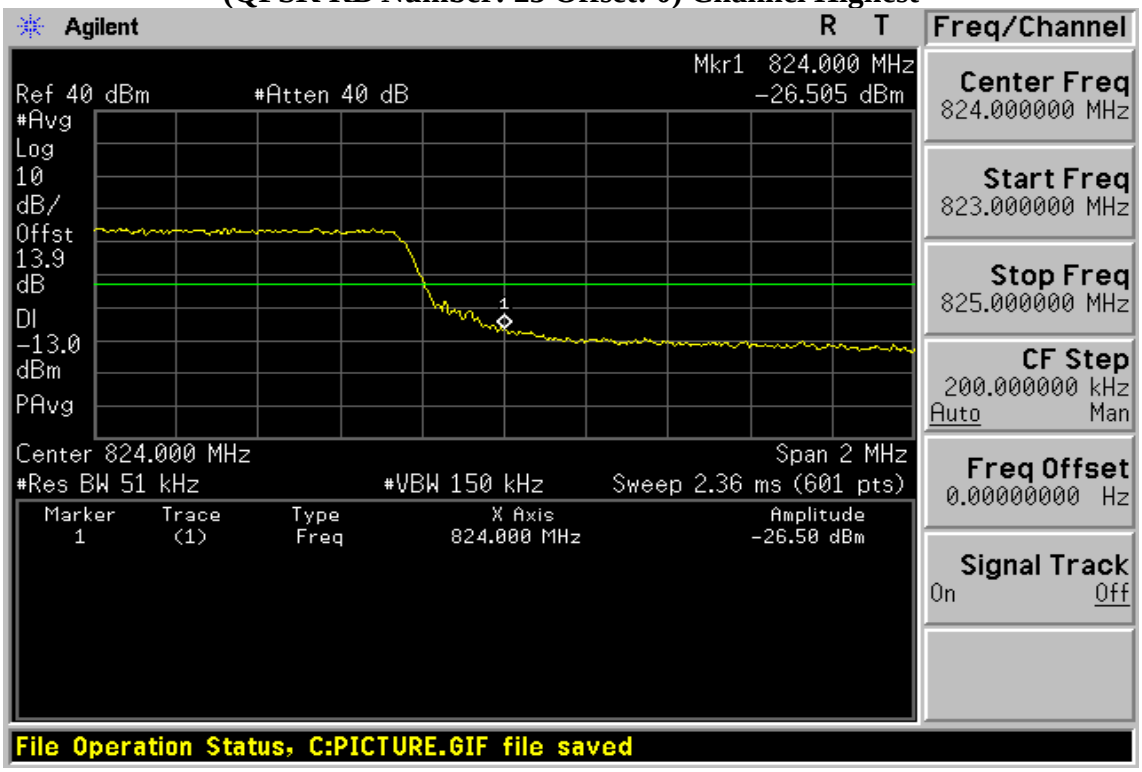

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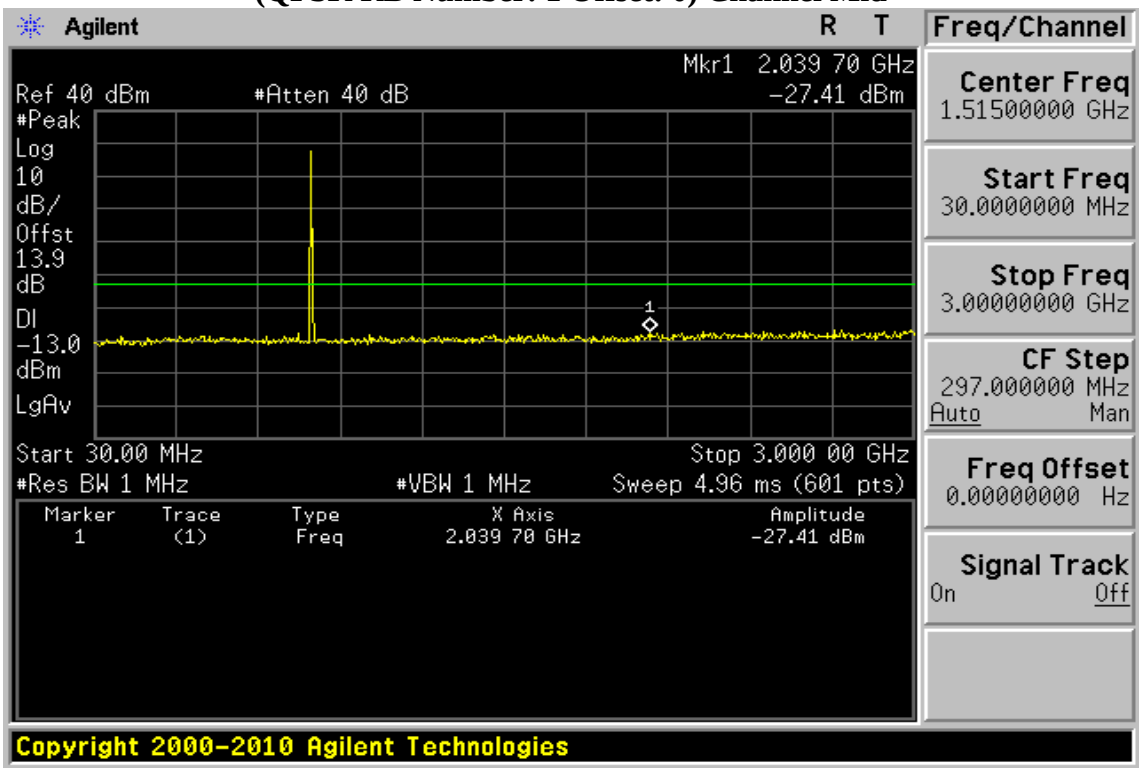
Figure 9-161: Out of Band emission at antenna terminals – 10MHz BW LTE-Band 26 (QPSK RB Number: 1 Offset: 0) Channel Mid



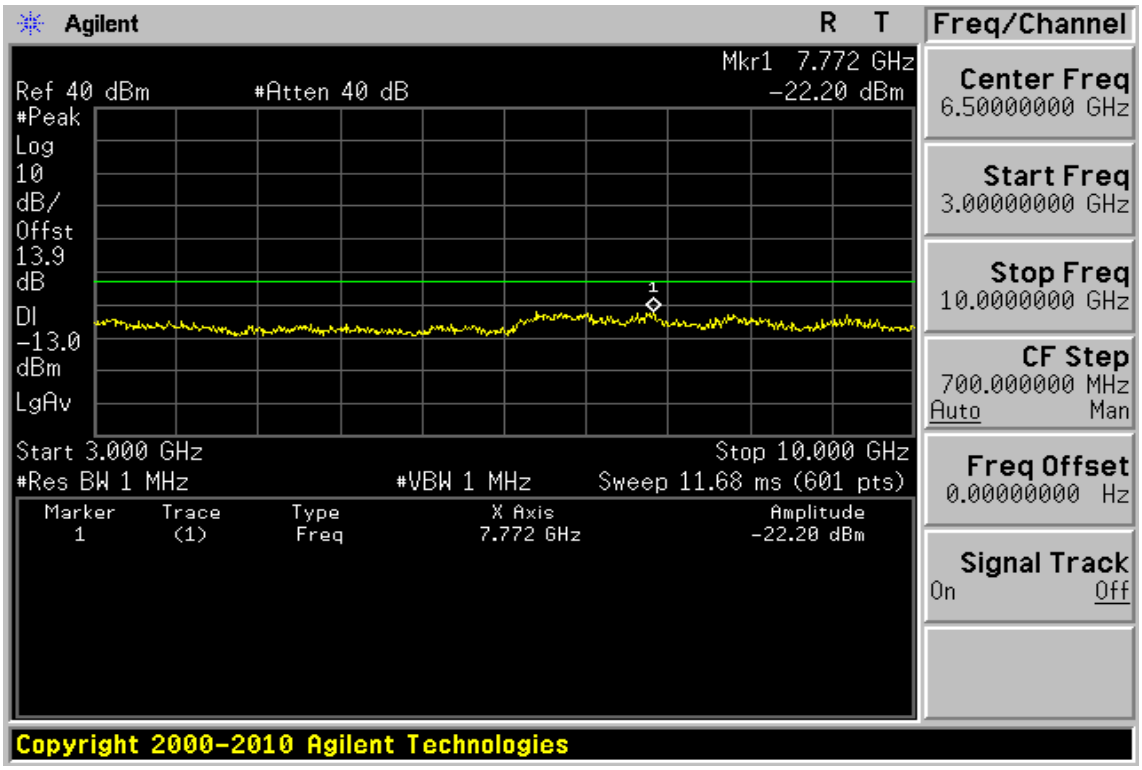


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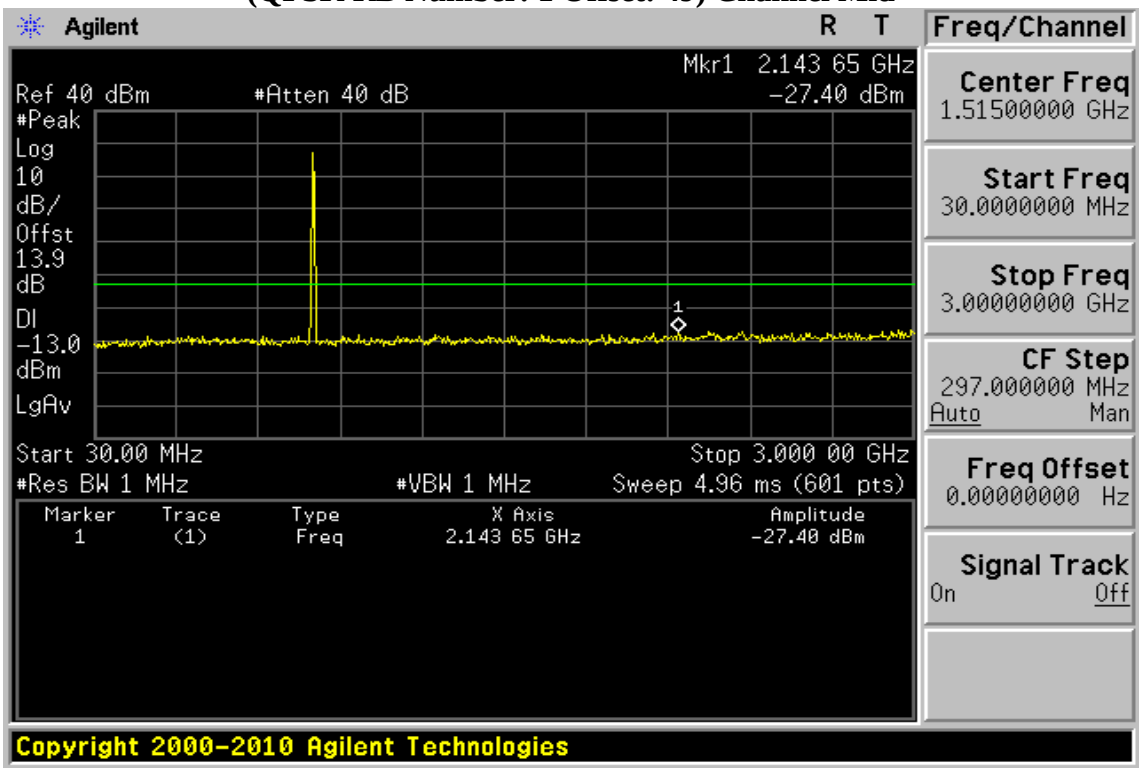
Figure 9-162: Out of Band emission at antenna terminals – 10MHz BW LTE-Band 26 (QPSK RB Number: 1 Offset: 49) Channel Mid



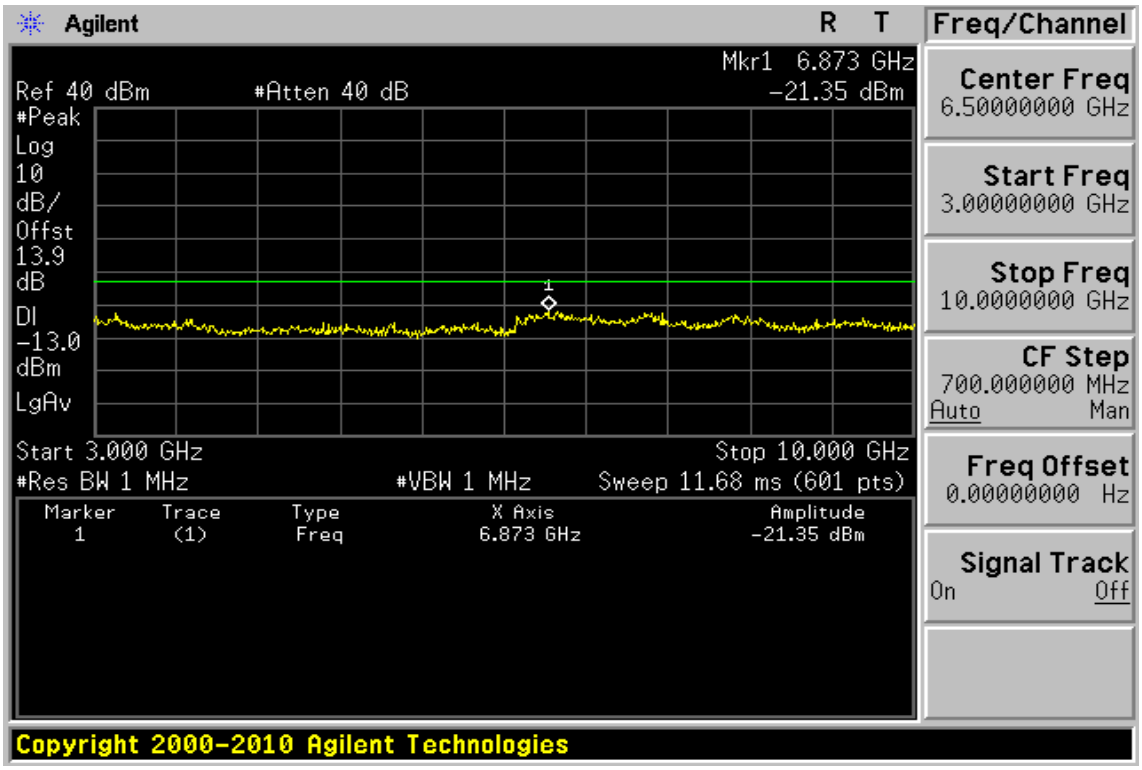


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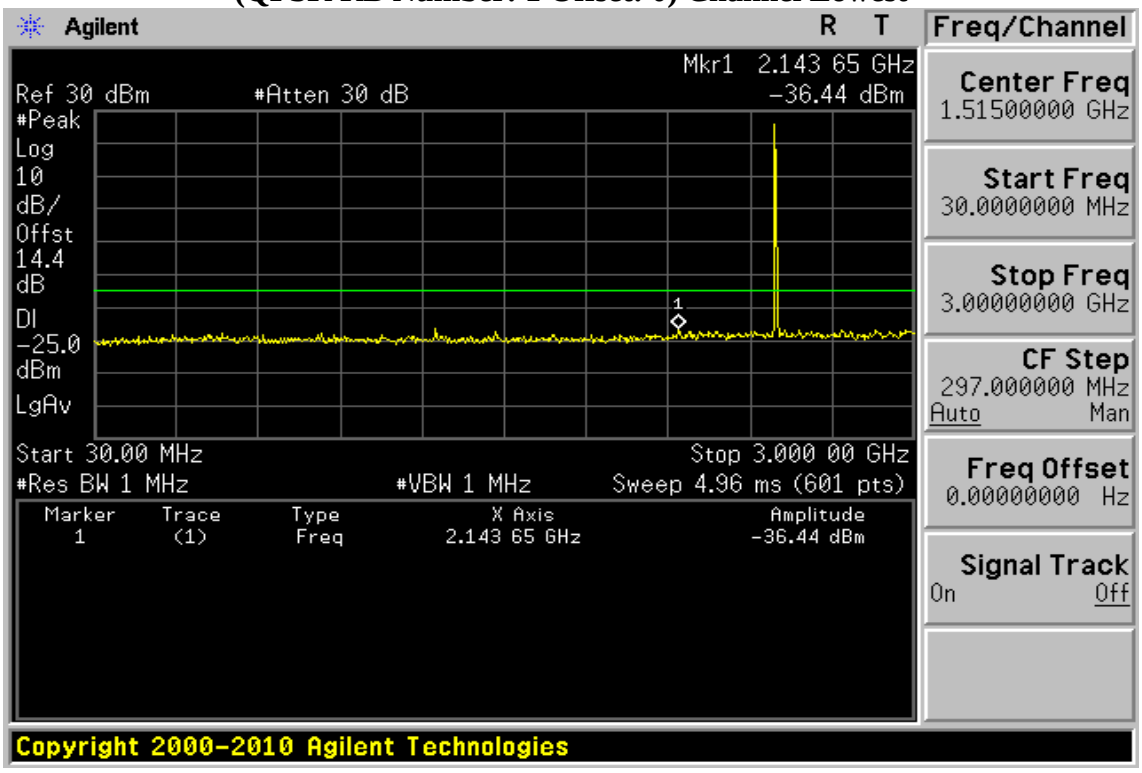
Figure 9-163: Out of Band emission at antenna terminals – 5MHz BW LTE-Band 41 (QPSK RB Number: 1 Offset: 0) Channel Lowest



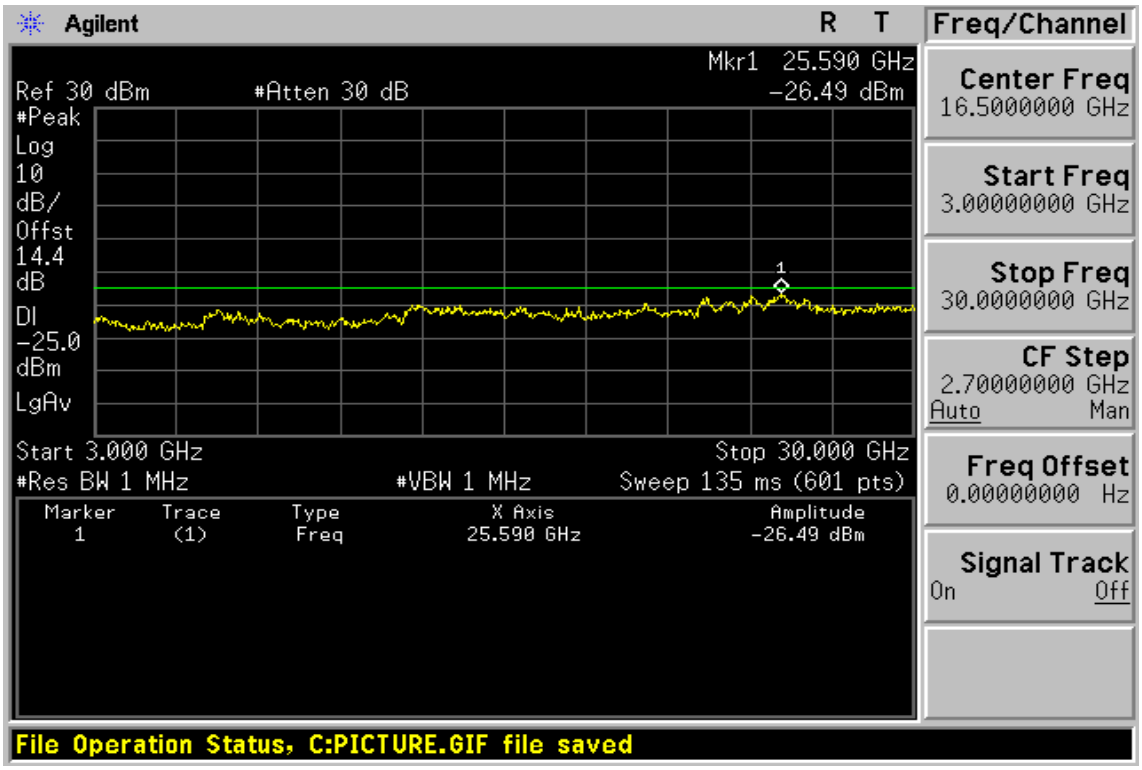


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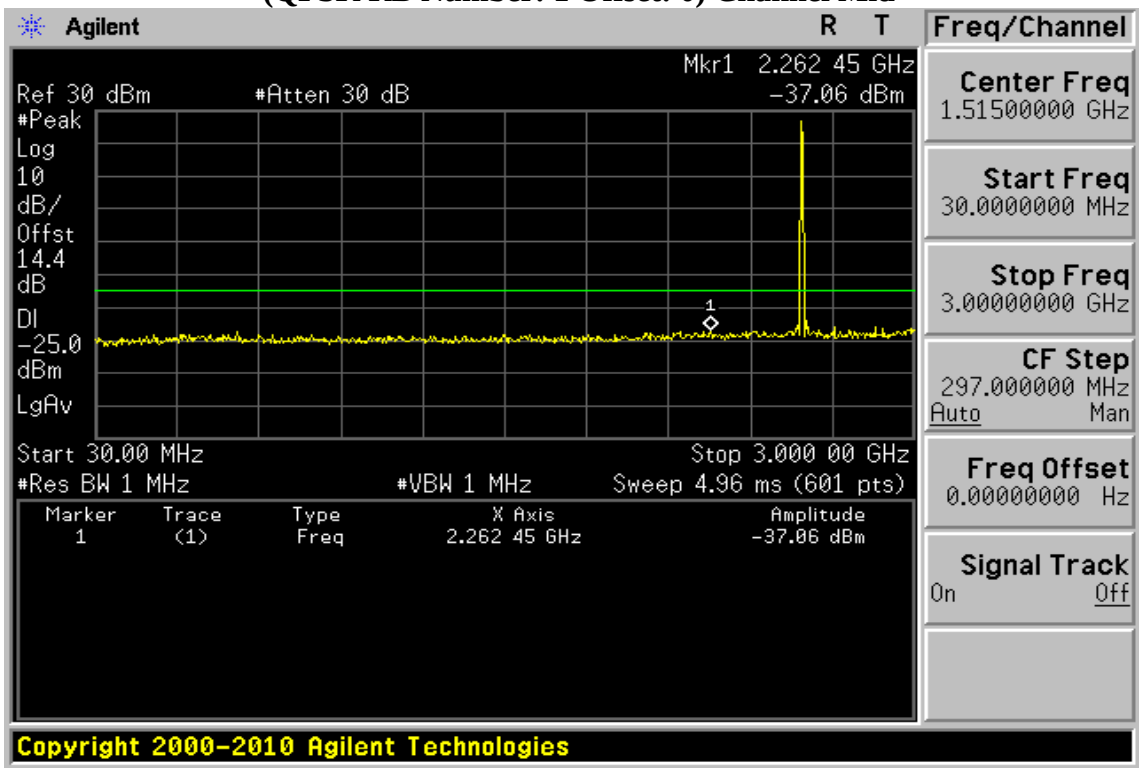
Figure 9-164: Out of Band emission at antenna terminals –5MHz BW LTE-Band 41 (QPSK RB Number: 1 Offset: 0) Channel Mid



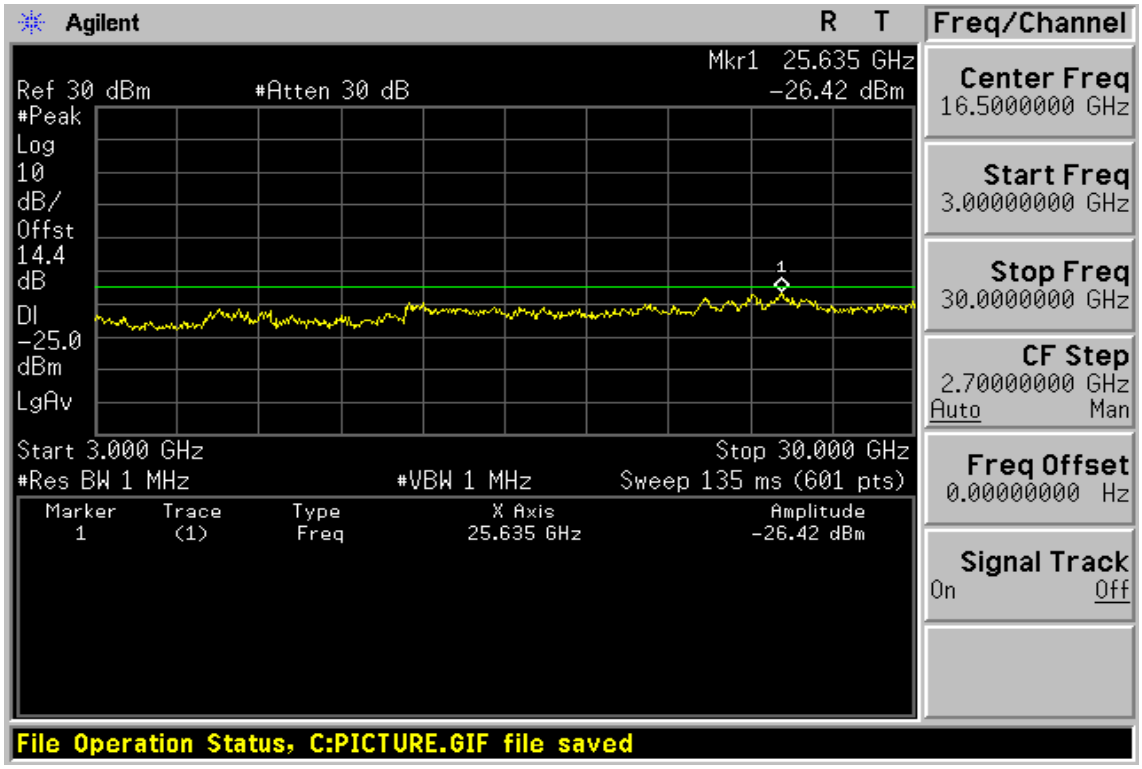


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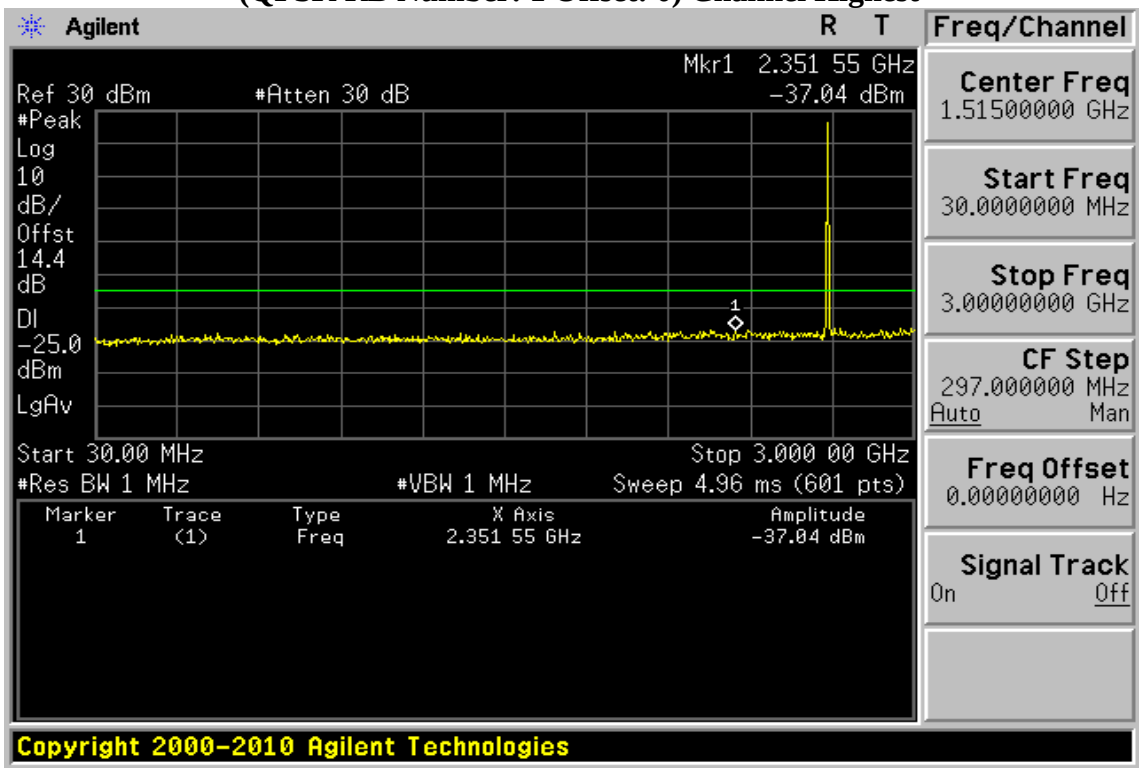
Figure 9-165: Out of Band emission at antenna terminals –5MHz BW LTE-Band 41 (QPSK RB Number: 1 Offset: 0) Channel Highest



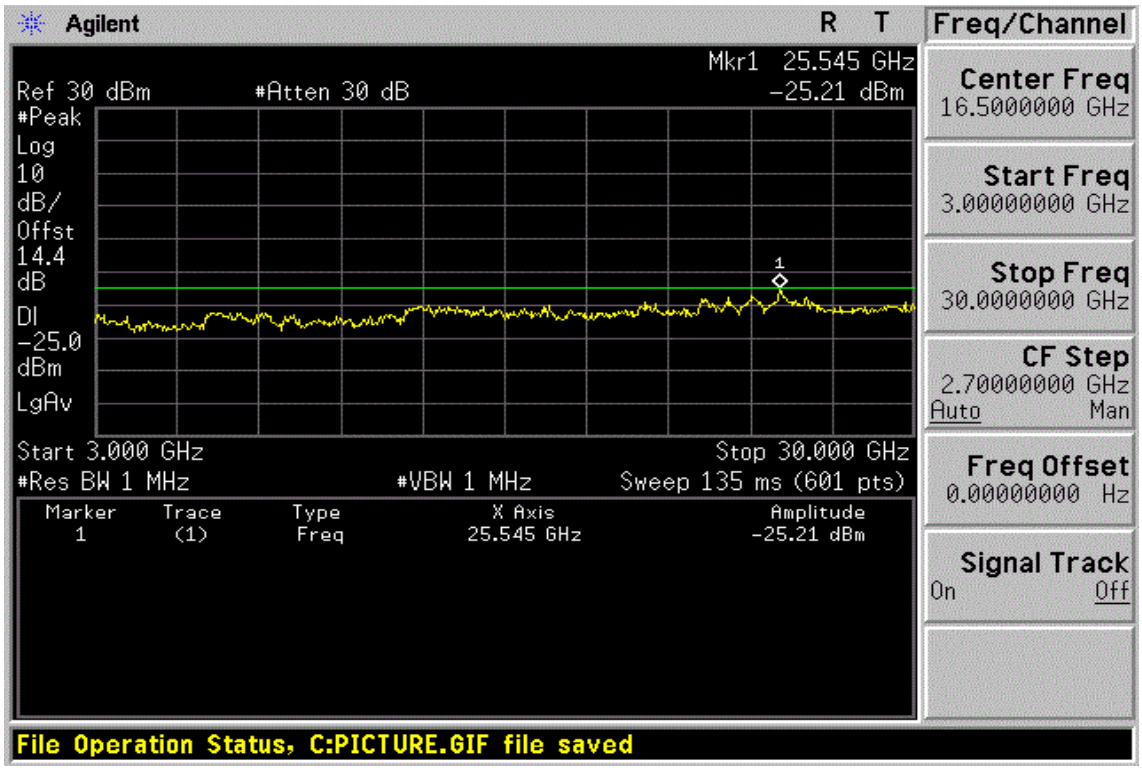


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Figure 9-166: Band edge emission at antenna terminals – 5MHz BW LTE-Band 41 (QPSK RB Number: 1 Offset: 0) Channel Lowest

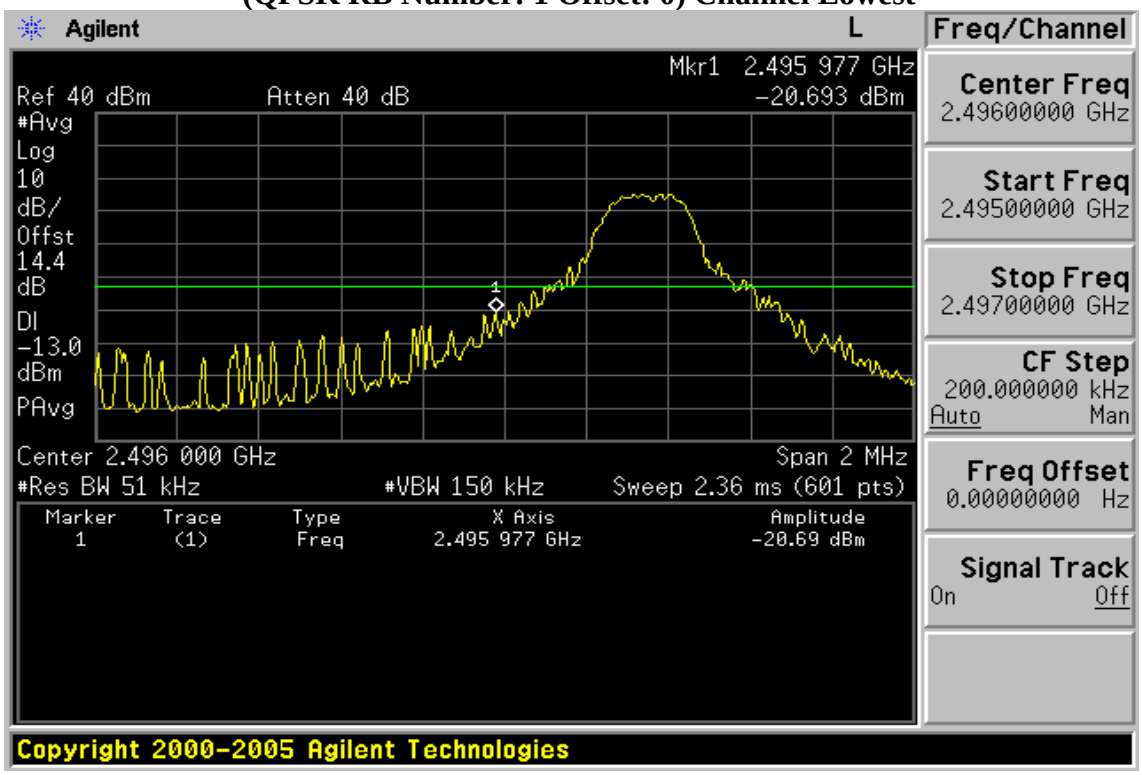

Figure 9-167: Band edge emission at antenna terminals – 5MHz BW LTE-Band 41 (QPSK RB Number: 1 Offset: 24) Channel Highest

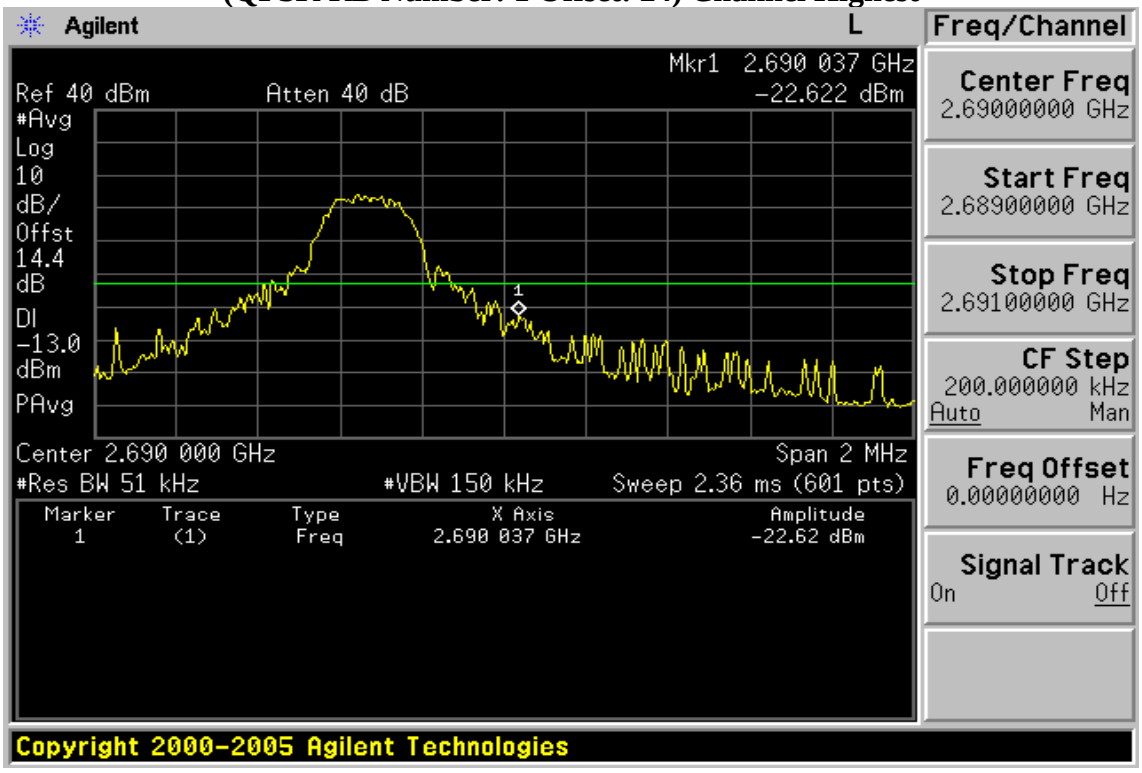

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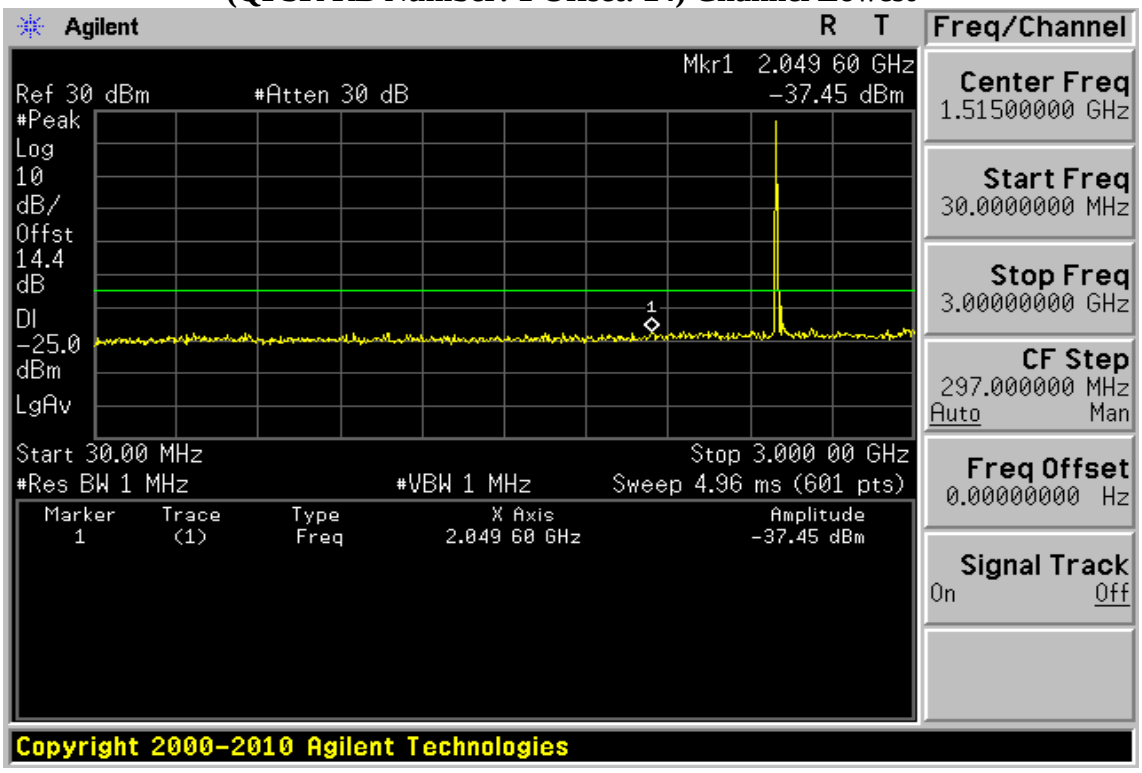
Figure 9-168: Out of Band emission at antenna terminals – 5MHz BW LTE-Band 41 (QPSK RB Number: 1 Offset: 24) Channel Lowest



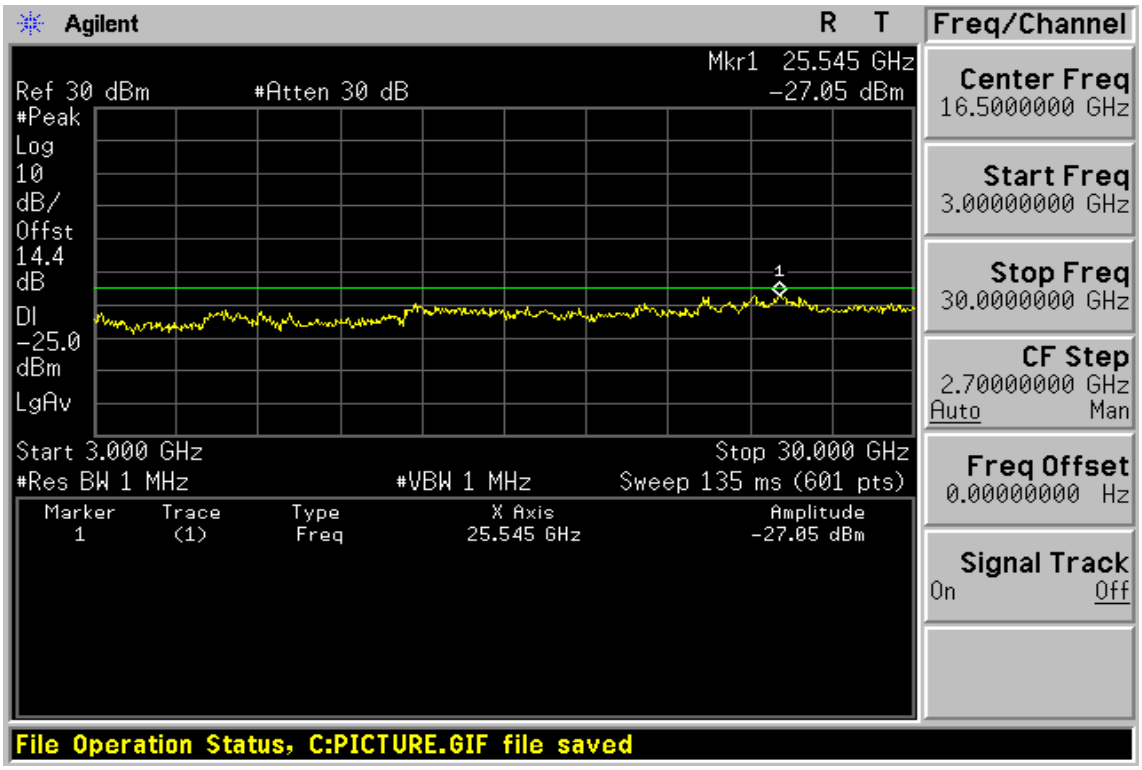


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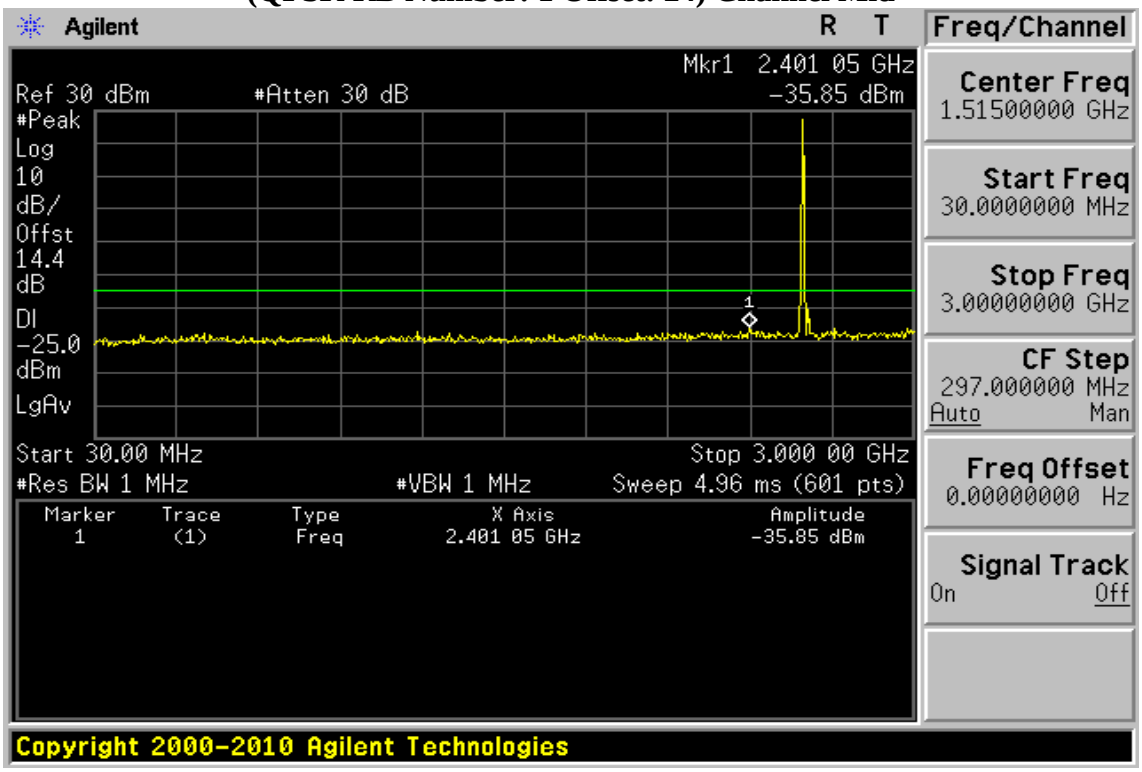
Figure 9-169: Out of Band emission at antenna terminals –5MHz BW LTE-Band 41 (QPSK RB Number: 1 Offset: 24) Channel Mid



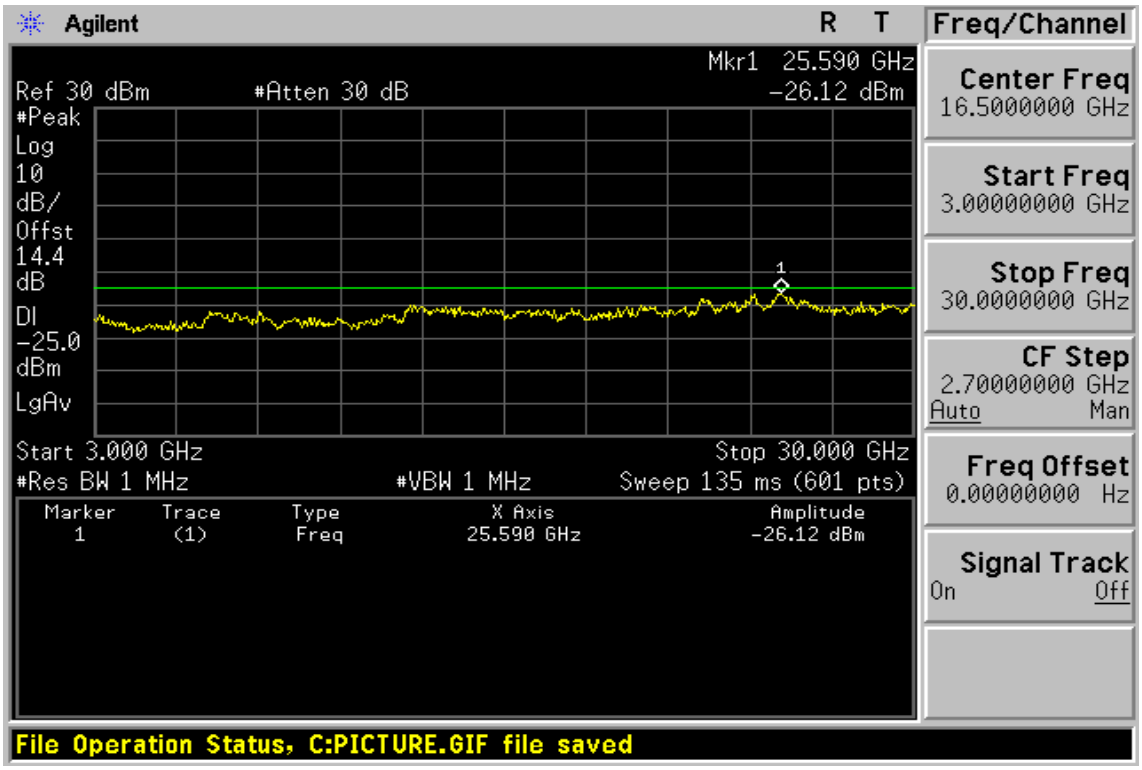


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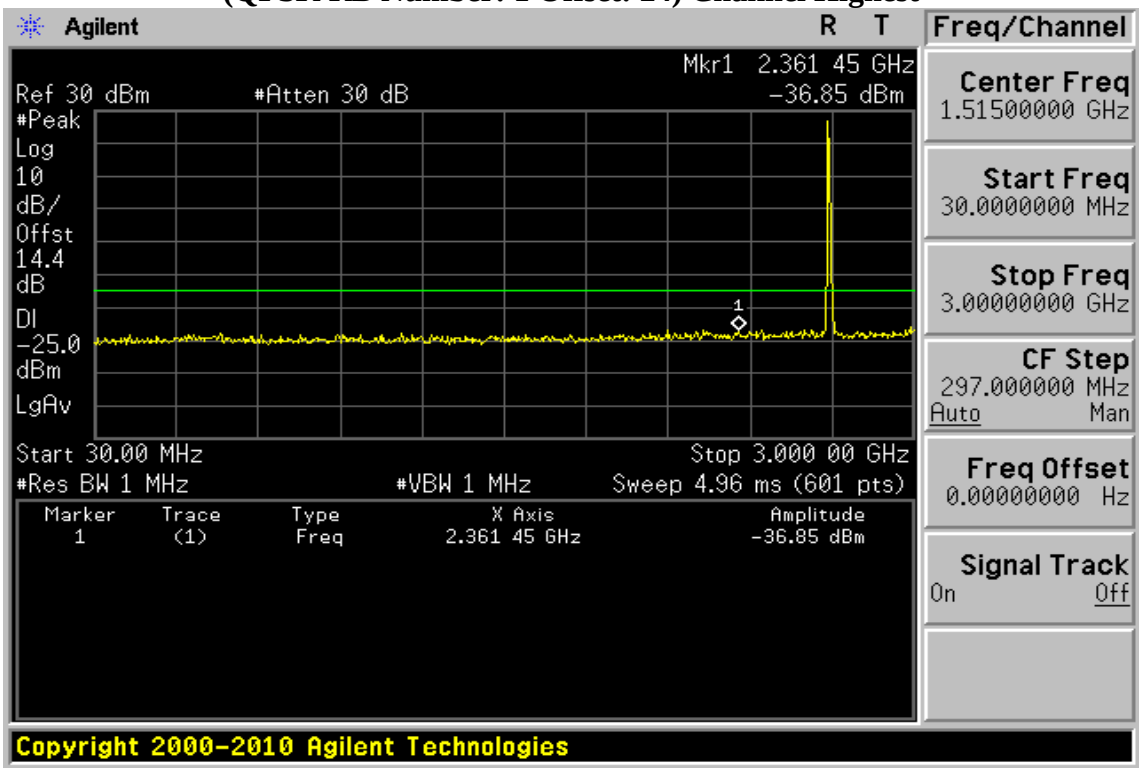
Figure 9-170: Out of Band emission at antenna terminals –5MHz BW LTE-Band 41 (QPSK RB Number: 1 Offset: 24) Channel Highest



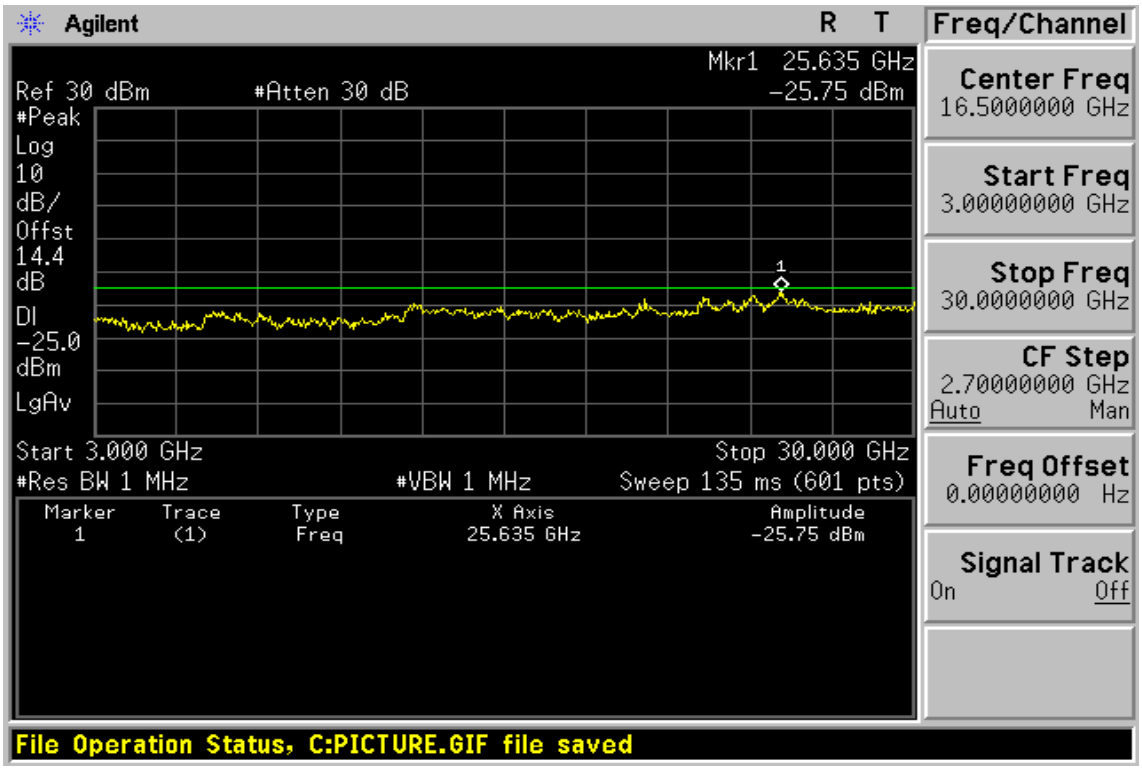


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Figure 9-171: Band edge emission at antenna terminals – 5MHz BW LTE-Band 41 (QPSK RB Number: 25 Offset: 0) Channel Lowest

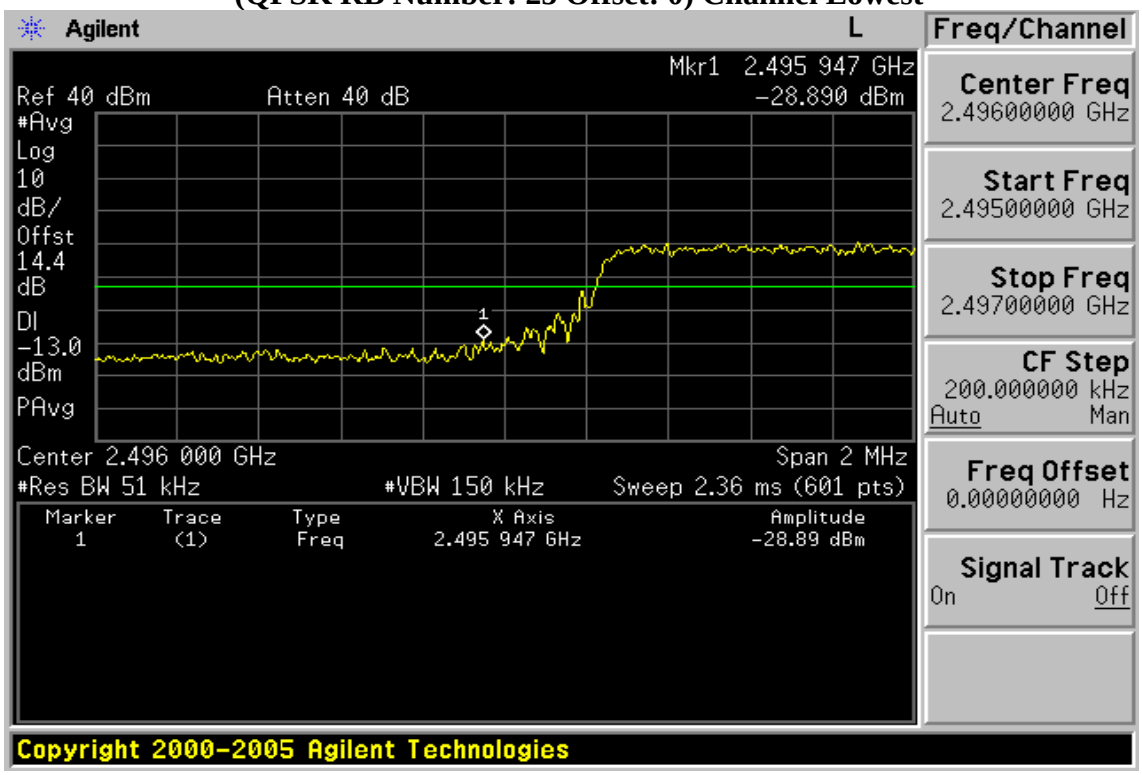

Figure 9-172: Band edge emission at antenna terminals –5MHz BW LTE-Band 41 (QPSK RB Number: 25 Offset: 0) Channel Highest

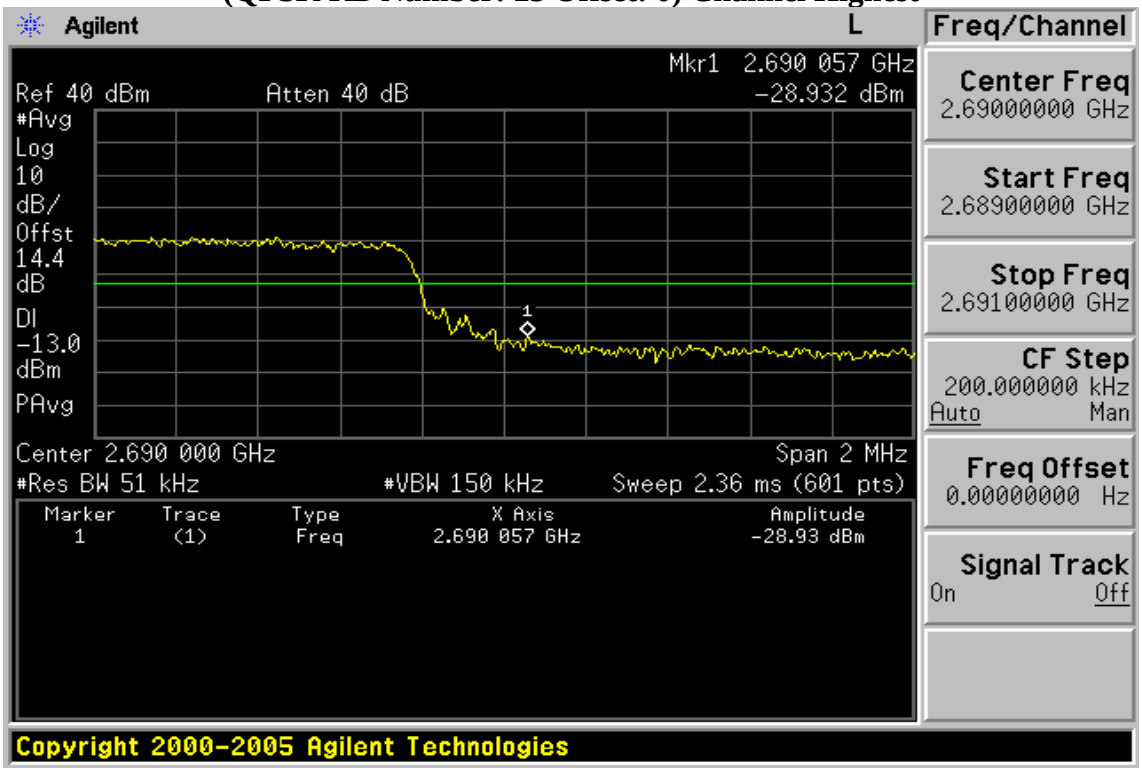

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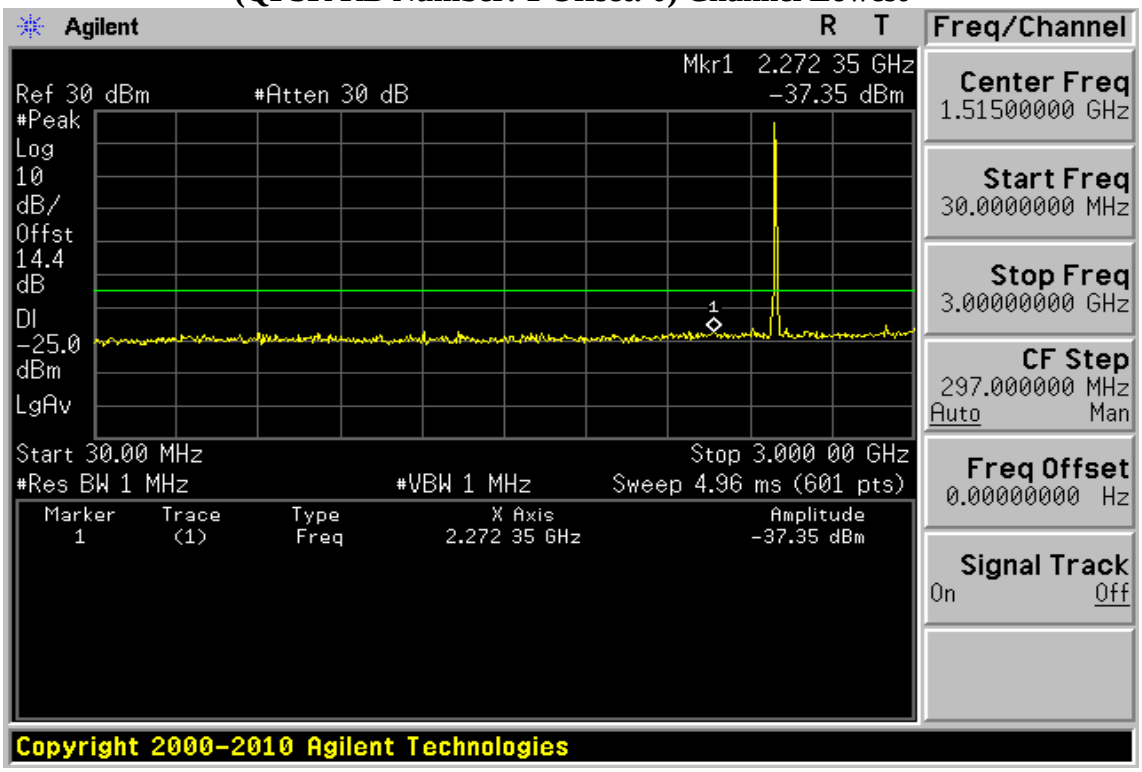
Figure 9-173: Out of Band emission at antenna terminals – 10MHz BW LTE-Band 41 (QPSK RB Number: 1 Offset: 0) Channel Lowest



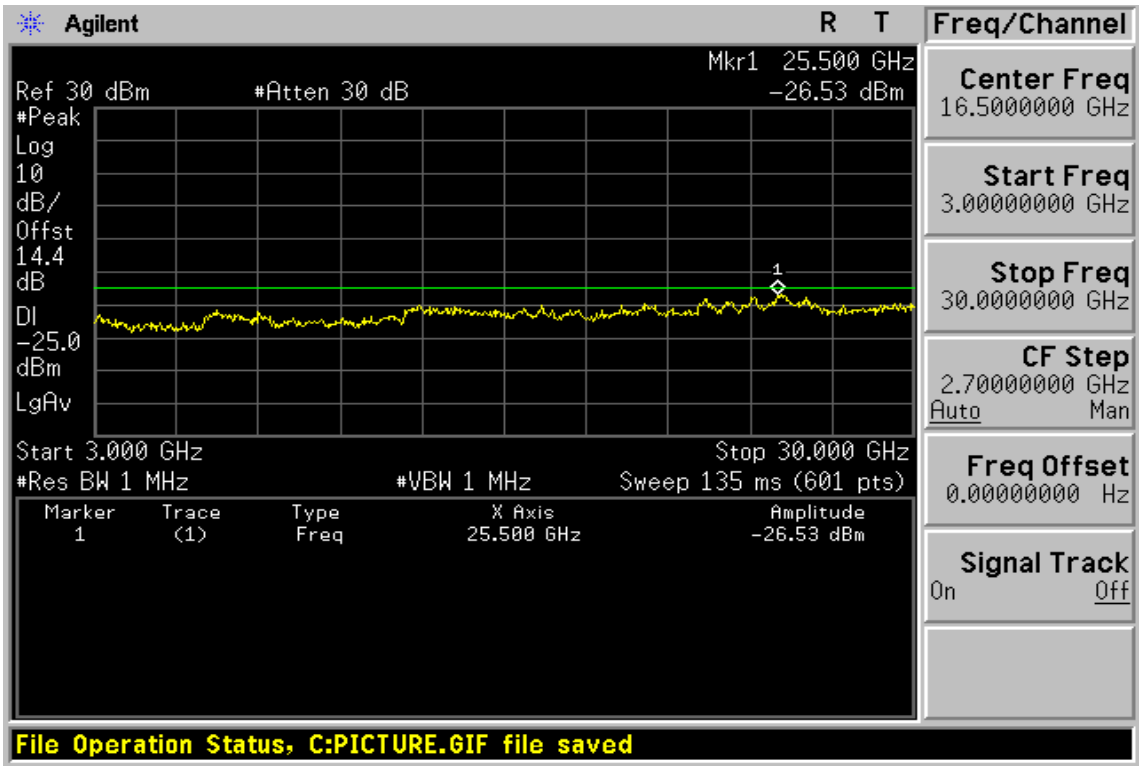


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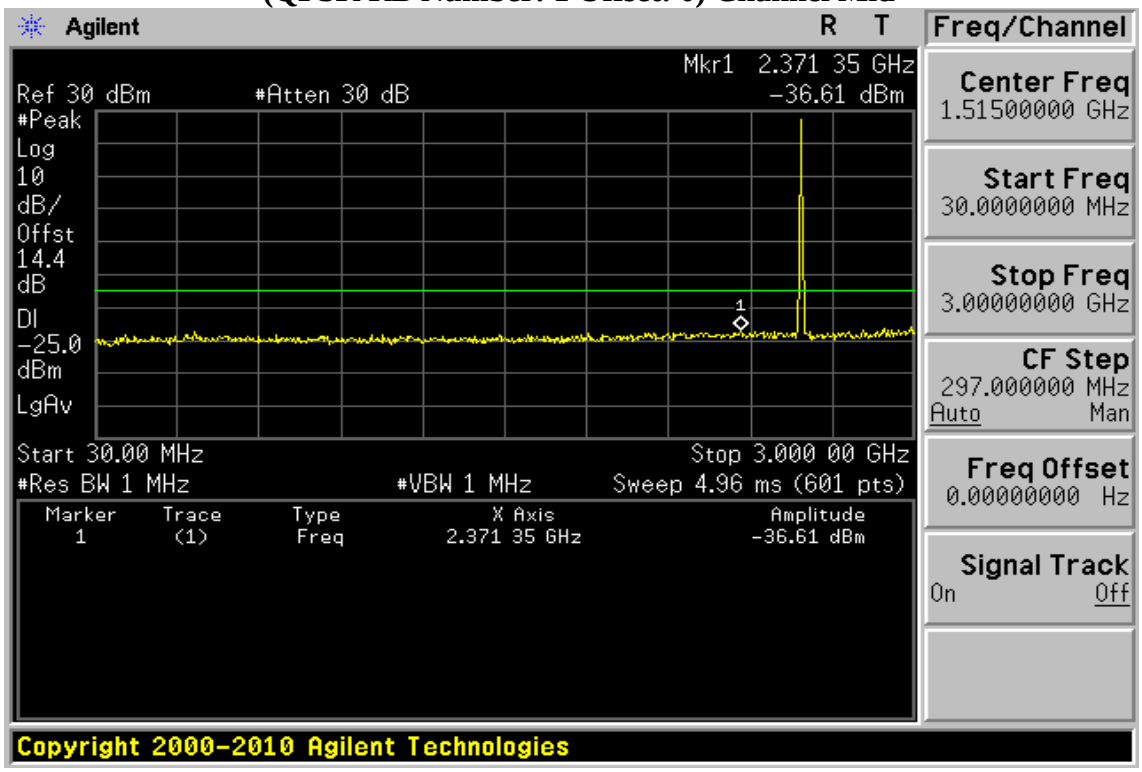
Figure 9-174: Out of Band emission at antenna terminals –10MHz BW LTE-Band 41 (QPSK RB Number: 1 Offset: 0) Channel Mid



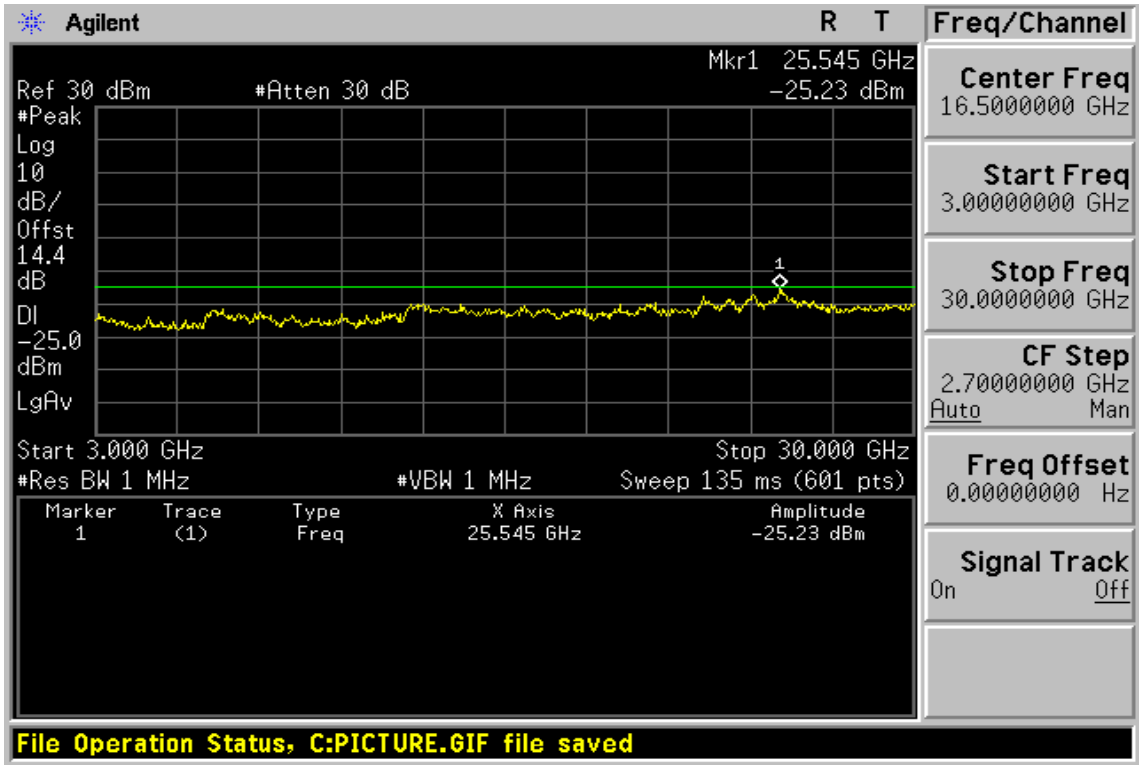


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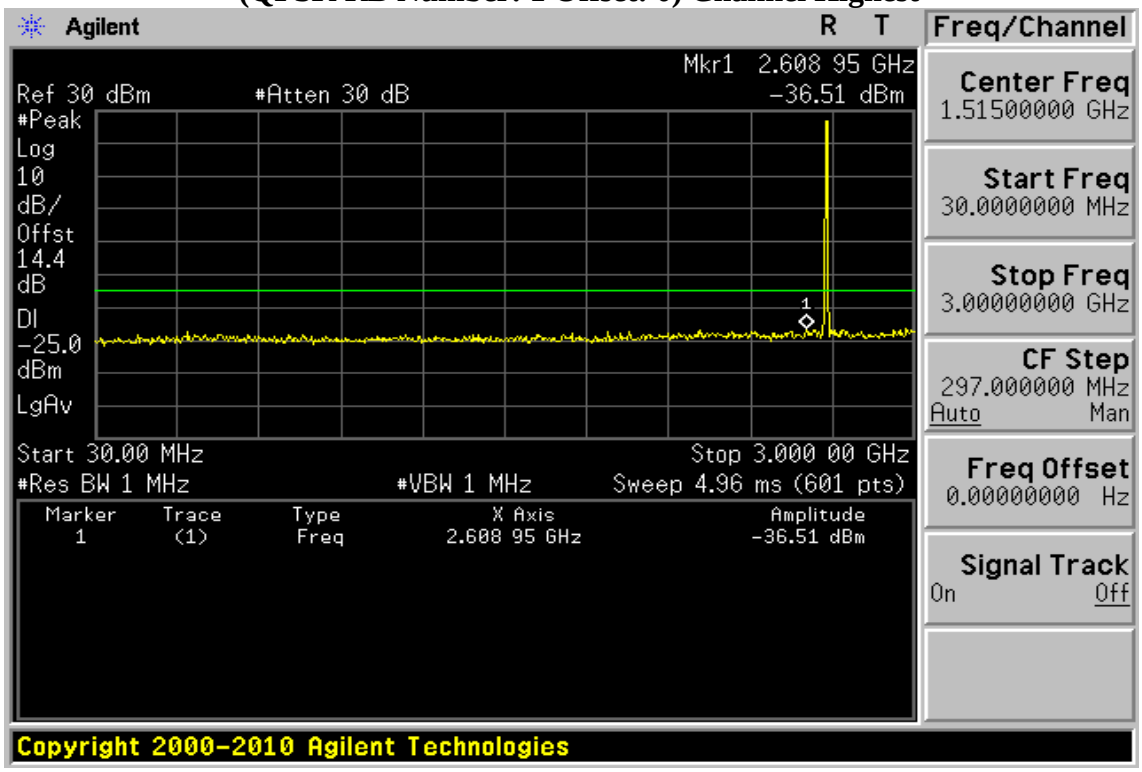
Figure 9-175: Out of Band emission at antenna terminals – 10MHz BW LTE-Band 41 (QPSK RB Number: 1 Offset: 0) Channel Highest



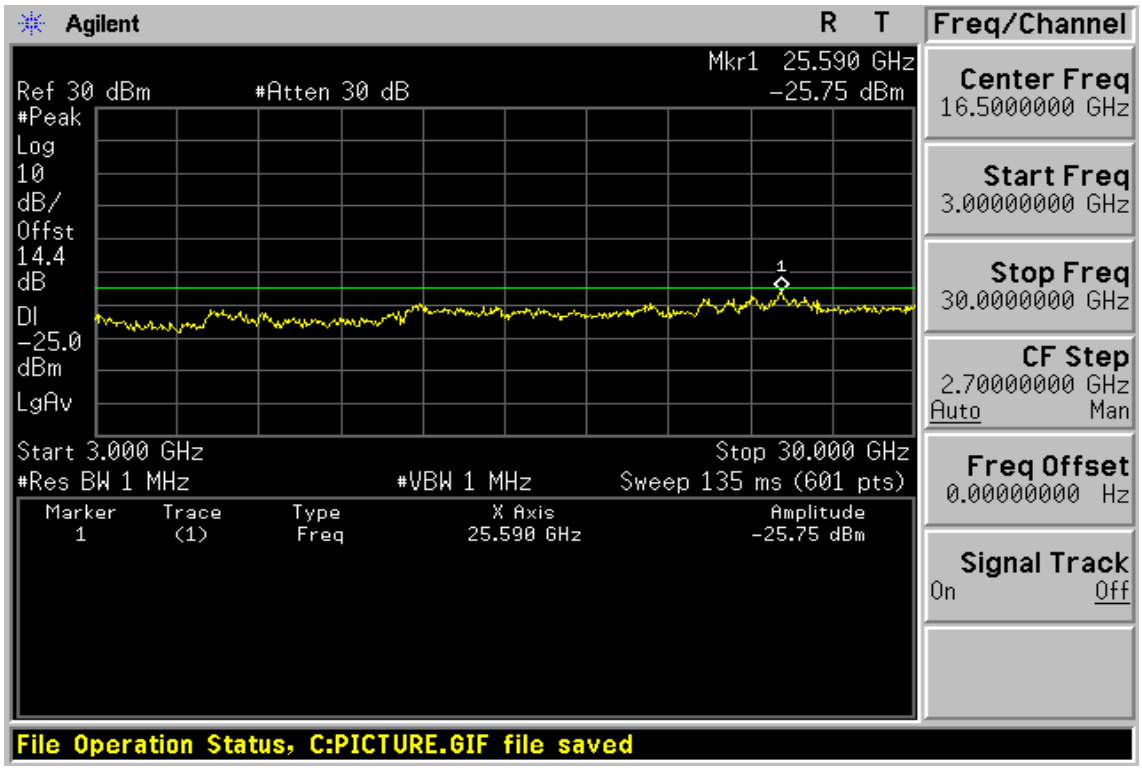


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Figure 9-176: Band edge emission at antenna terminals – 10MHz BW LTE-Band 41 (QPSK RB Number: 1 Offset: 0) Channel Lowest

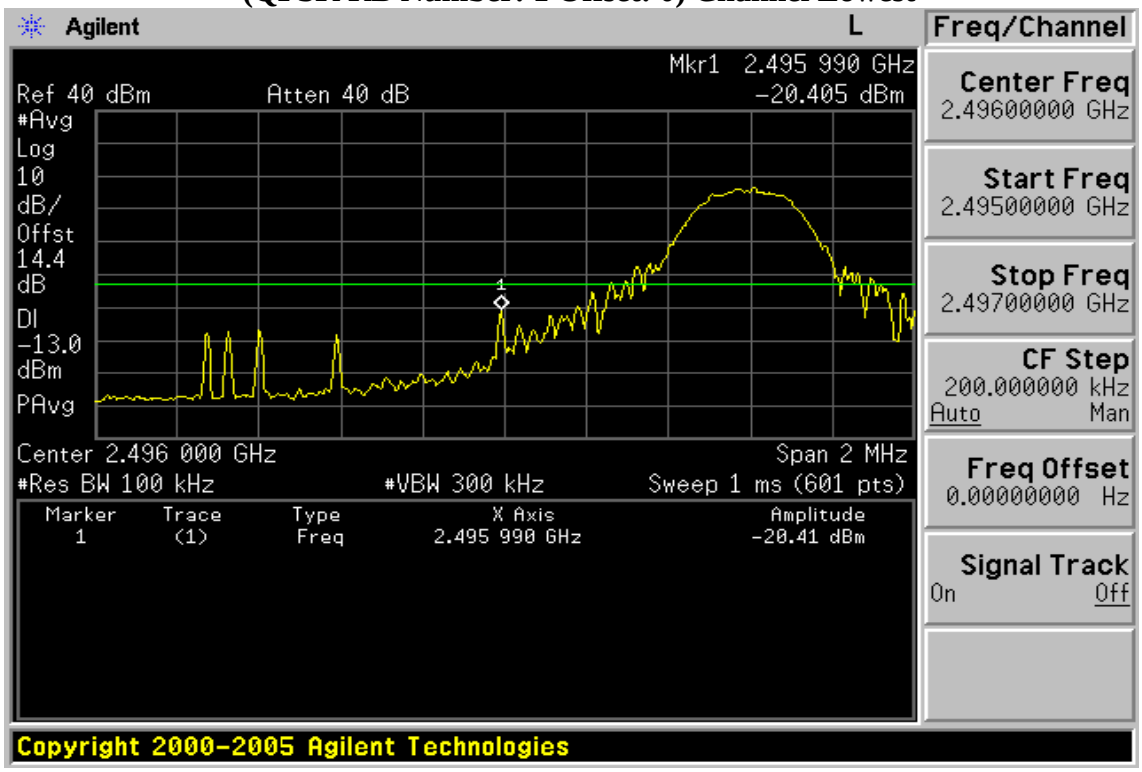

Figure 9-177: Band edge emission at antenna terminals –5MHz BW LTE-Band 41 (QPSK RB Number: 1 Offset: 49) Channel Highest

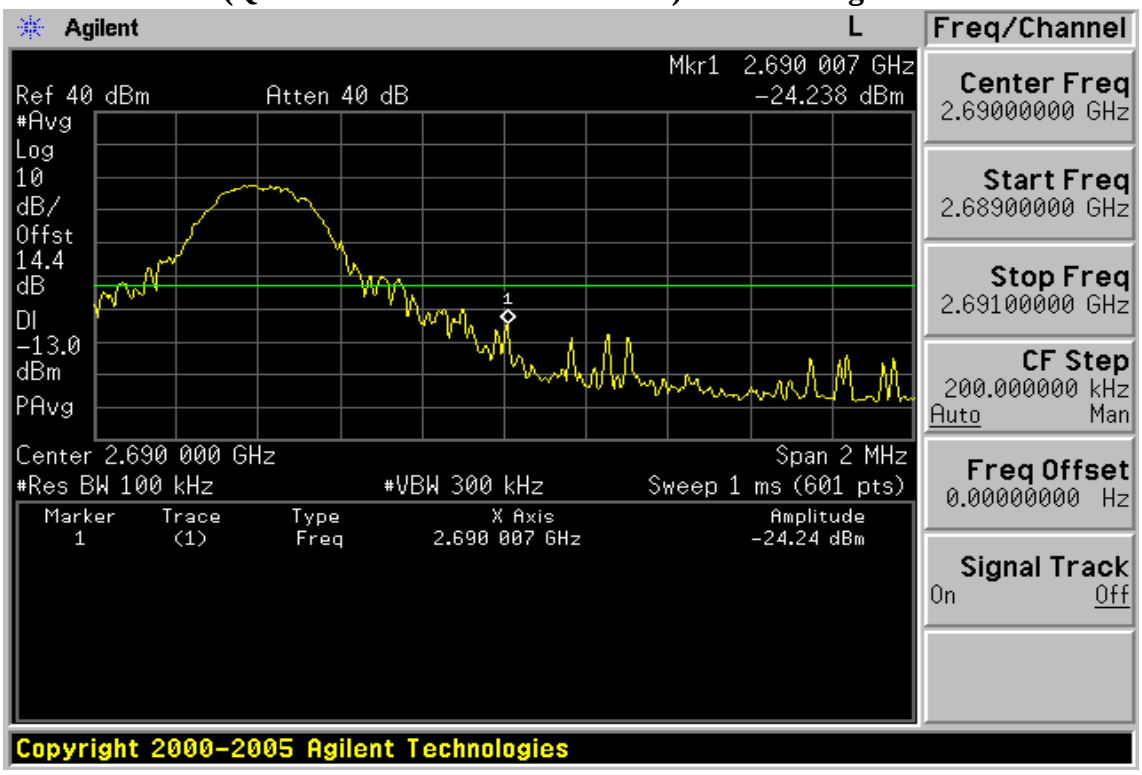

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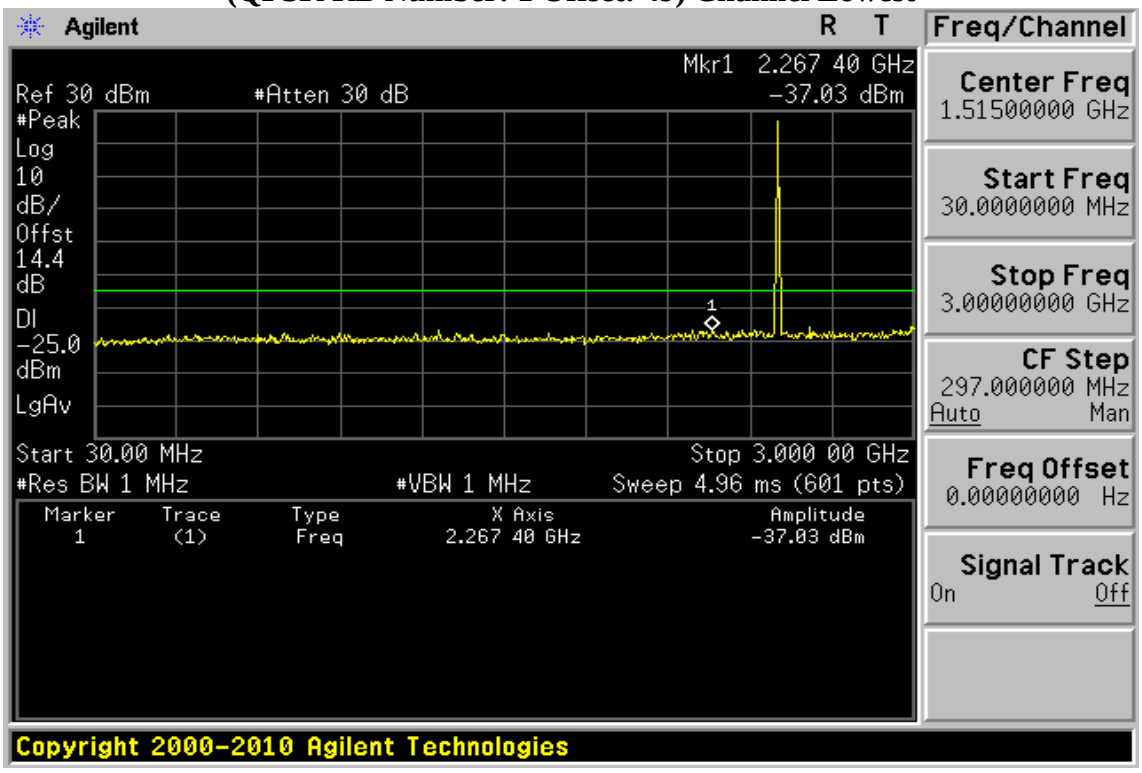
Figure 9-178: Out of Band emission at antenna terminals – 10MHz BW LTE-Band 41 (QPSK RB Number: 1 Offset: 49) Channel Lowest



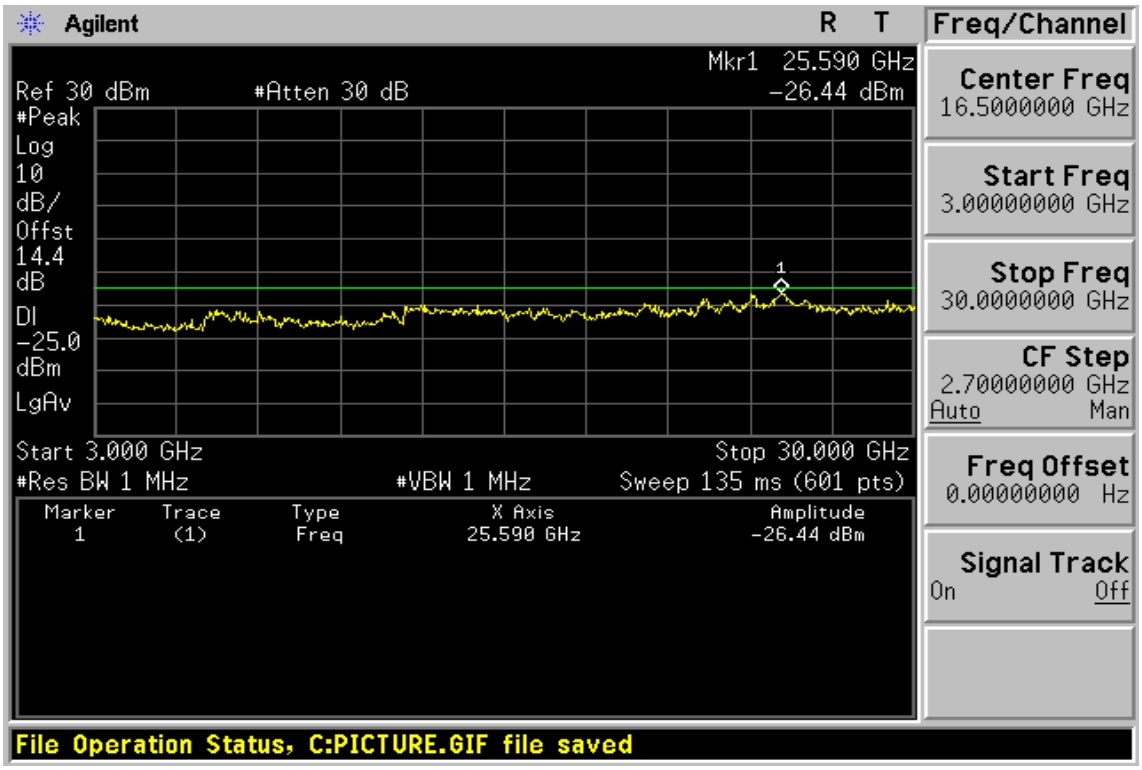


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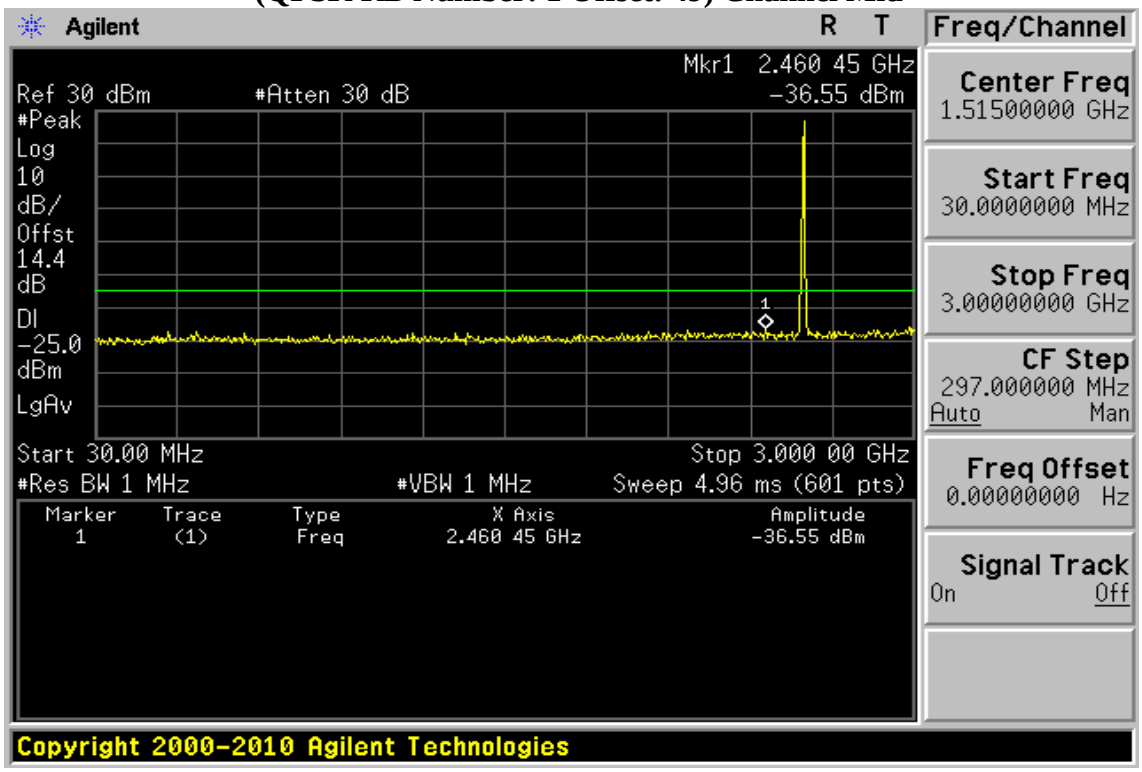
Figure 9-179: Out of Band emission at antenna terminals – 10MHz BW LTE-Band 41 (QPSK RB Number: 1 Offset: 49) Channel Mid



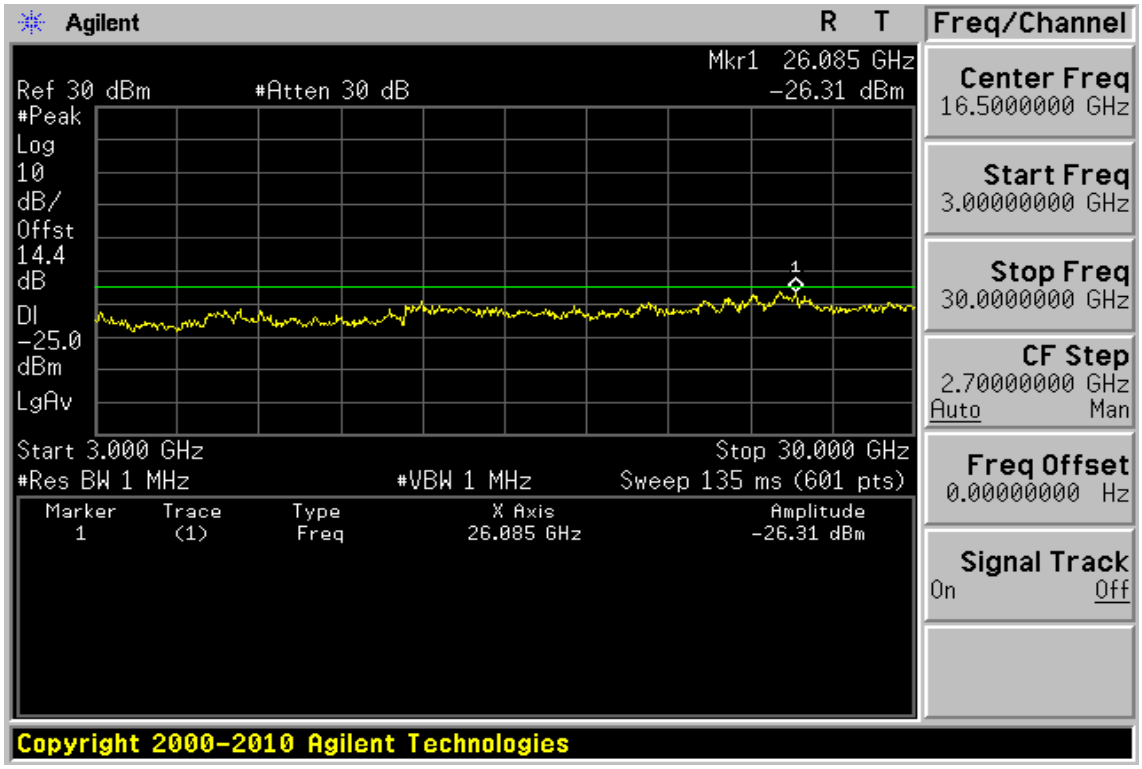


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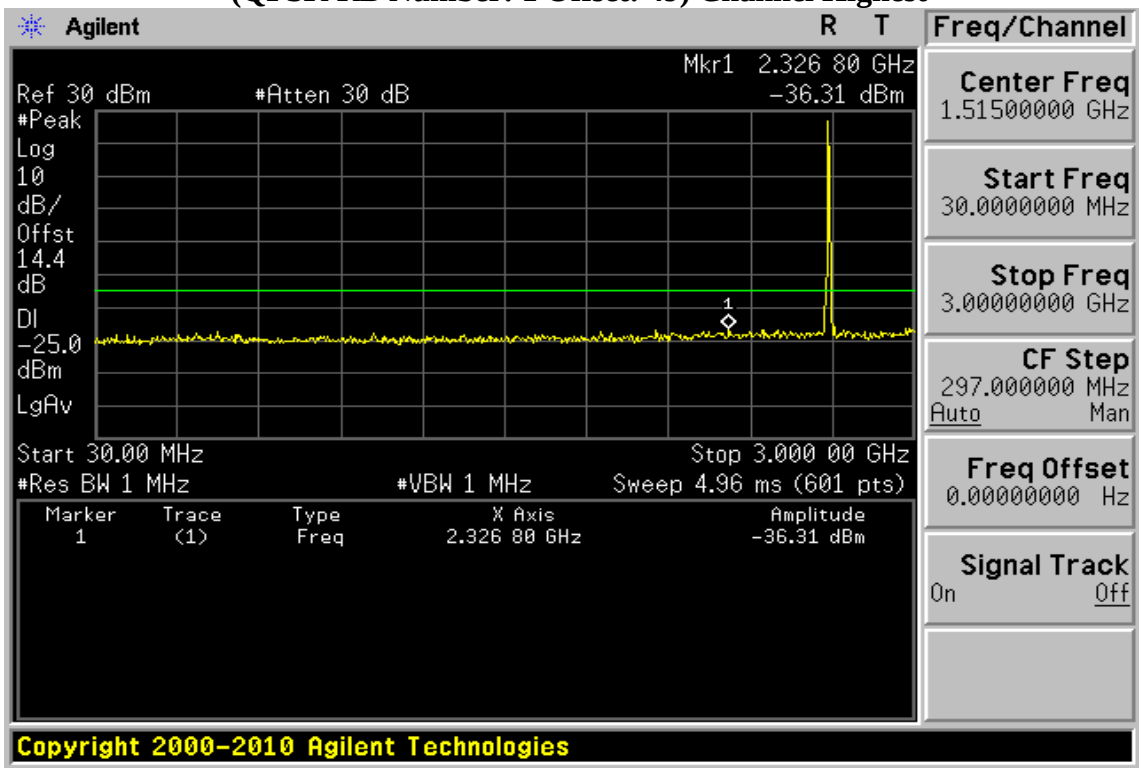
Figure 9-180: Out of Band emission at antenna terminals – 10MHz BW LTE-Band 41 (QPSK RB Number: 1 Offset: 49) Channel Highest



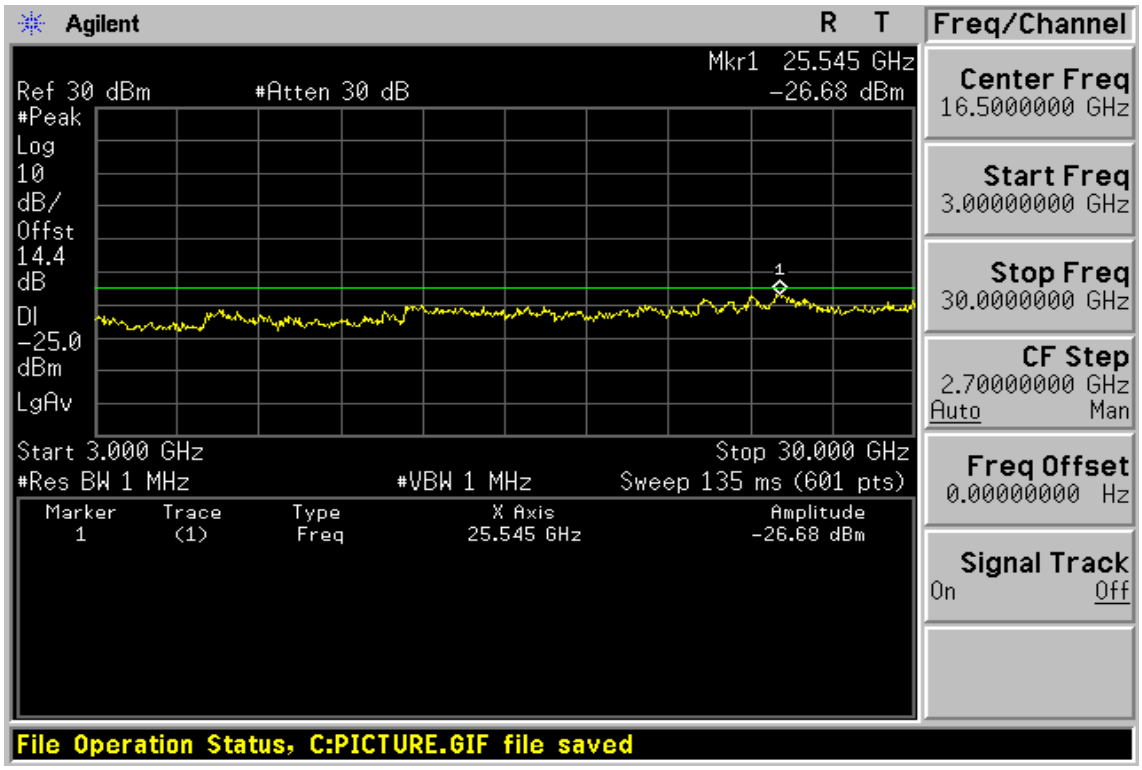


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Figure 9-181: Band edge emission at antenna terminals – 10MHz BW LTE-Band 41 (QPSK RB Number: 50 Offset: 0) Channel Lowest

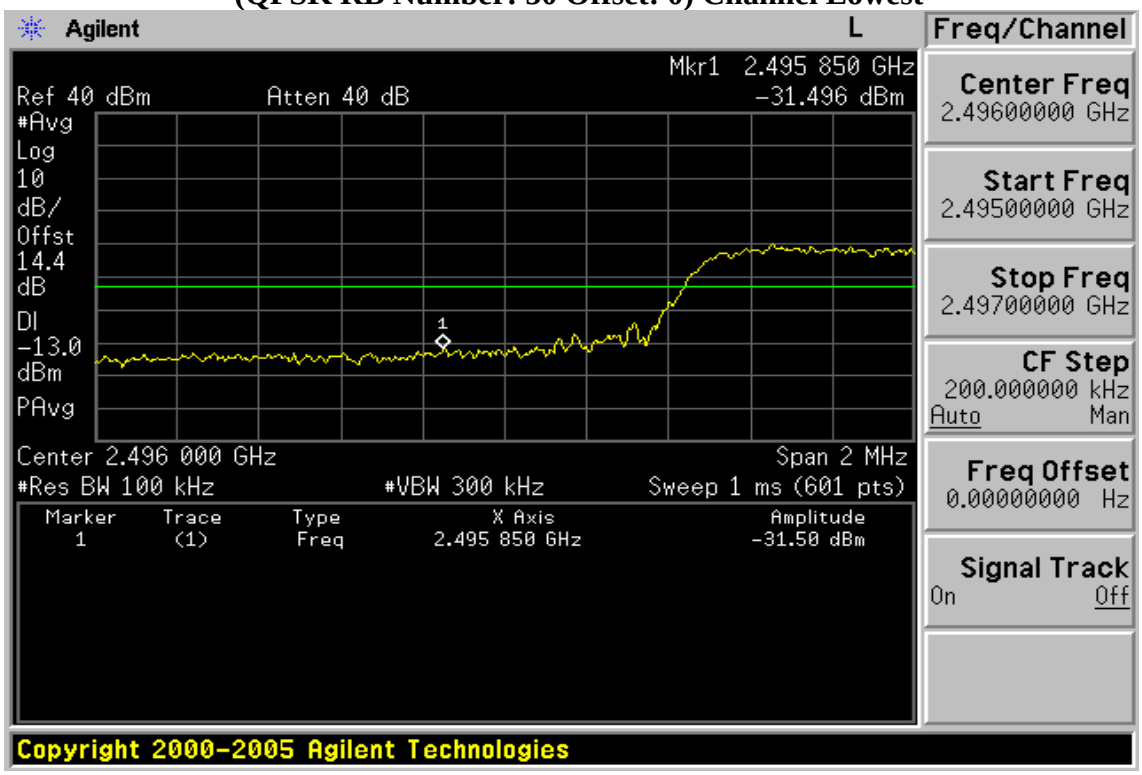

Figure 9-182: Band edge emission at antenna terminals – 10MHz BW LTE-Band 41 (QPSK RB Number: 50 Offset: 0) Channel Highest

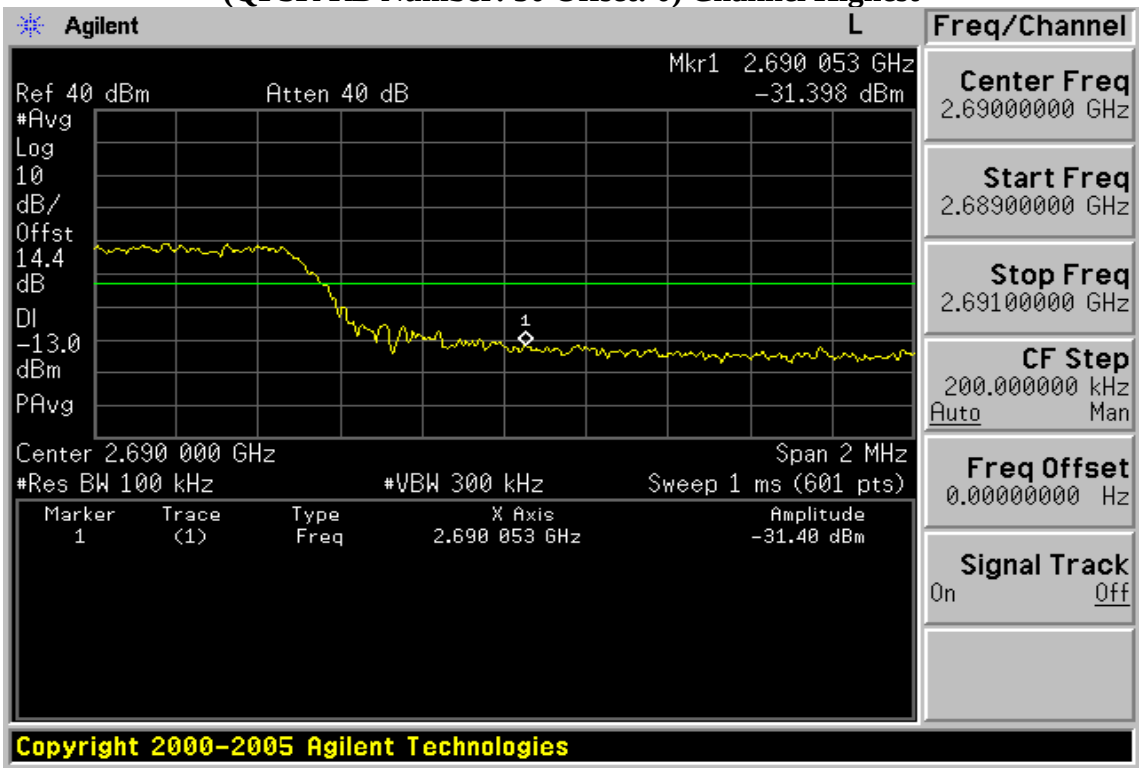

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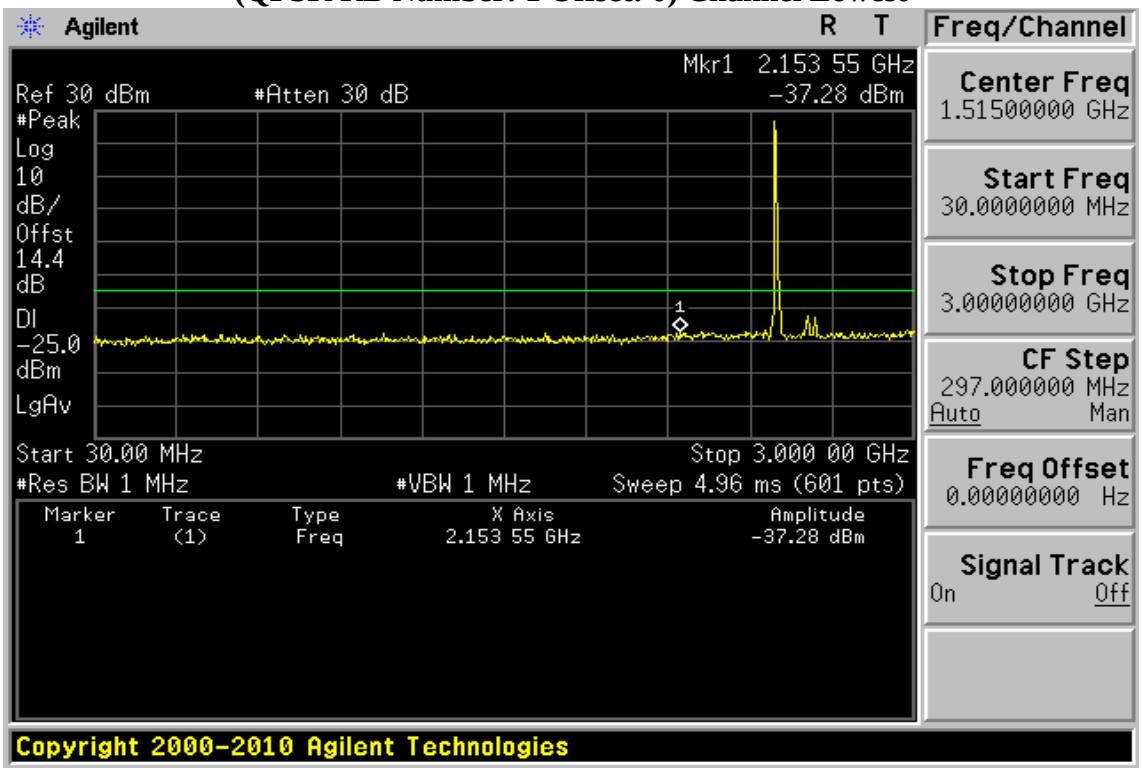
Figure 9-183: Out of Band emission at antenna terminals – 15MHz BW LTE-Band 41 (QPSK RB Number: 1 Offset: 0) Channel Lowest



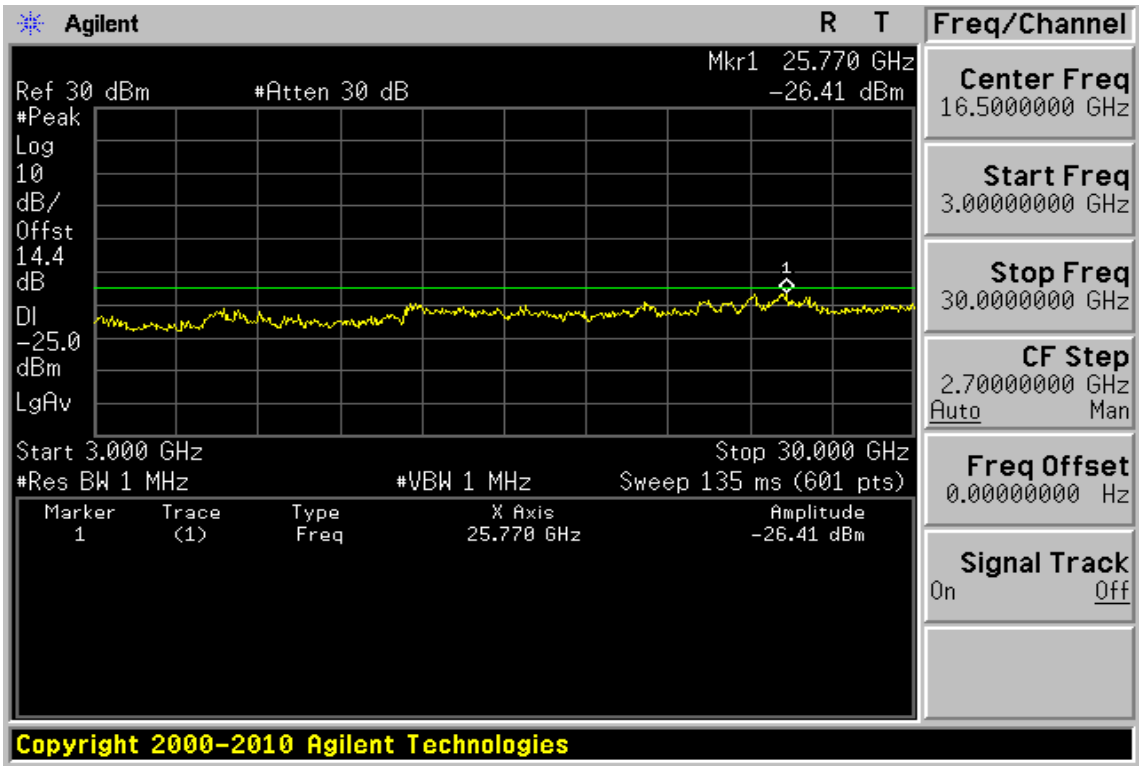


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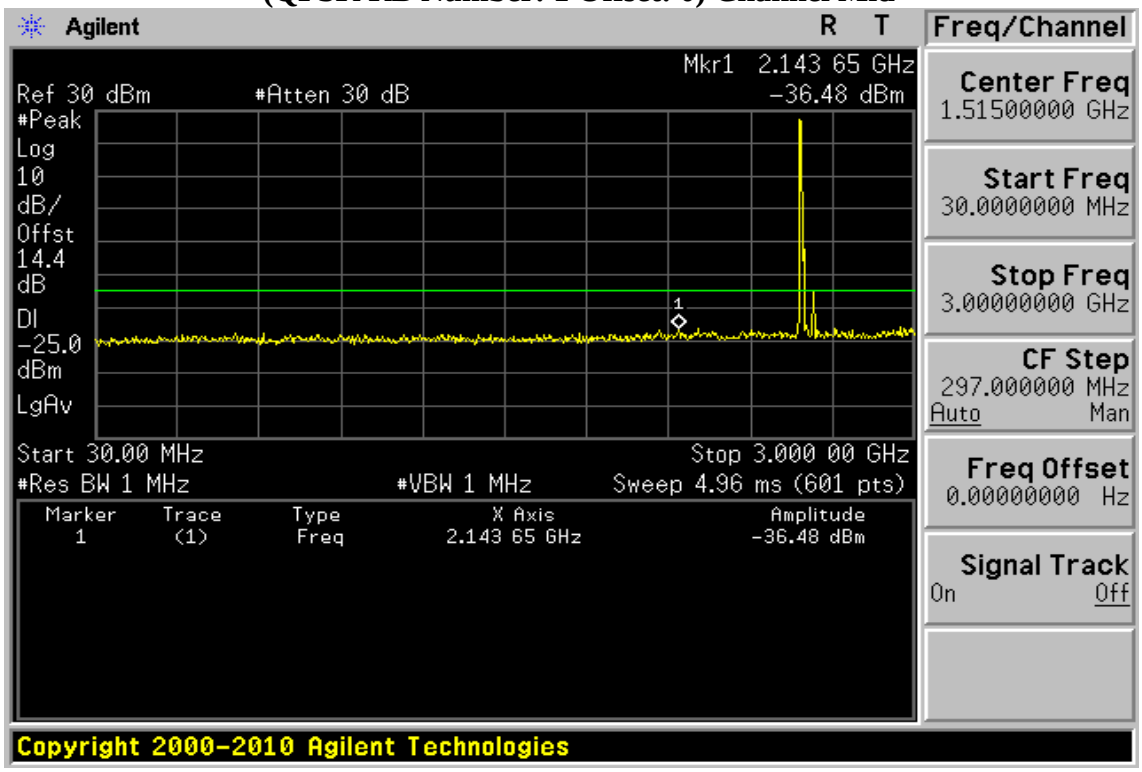
Figure 9-184: Out of Band emission at antenna terminals –15MHz BW LTE-Band 41 (QPSK RB Number: 1 Offset: 0) Channel Mid



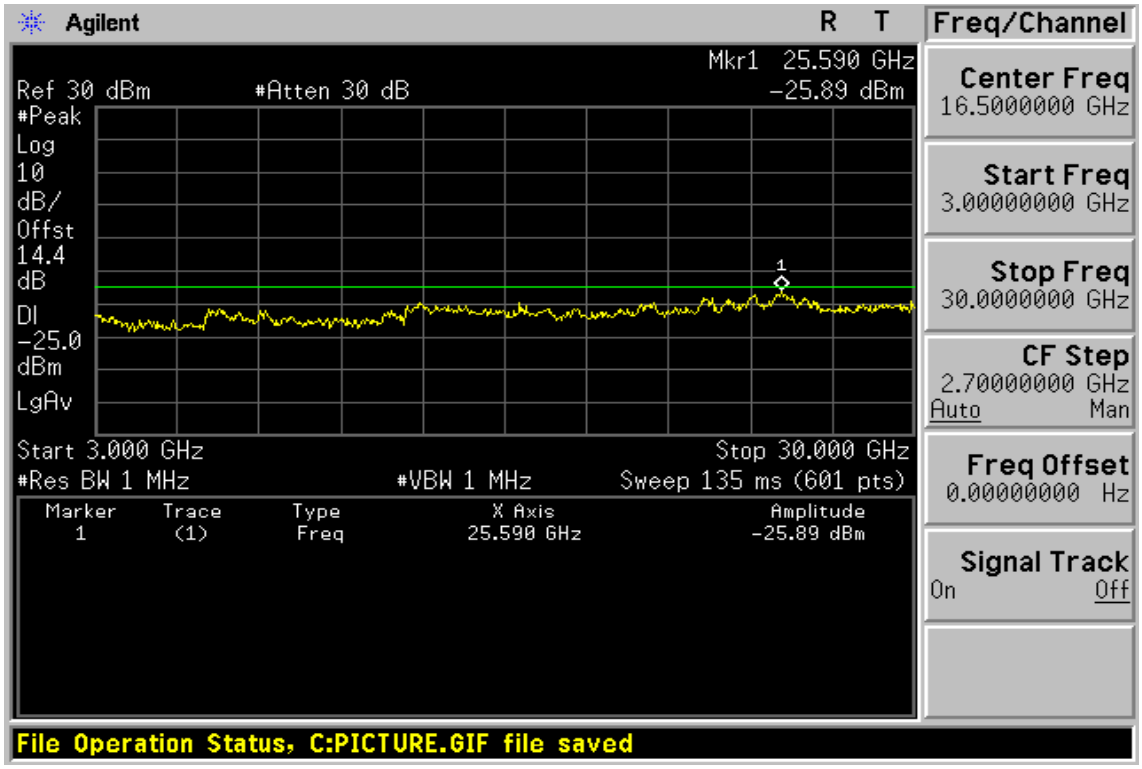


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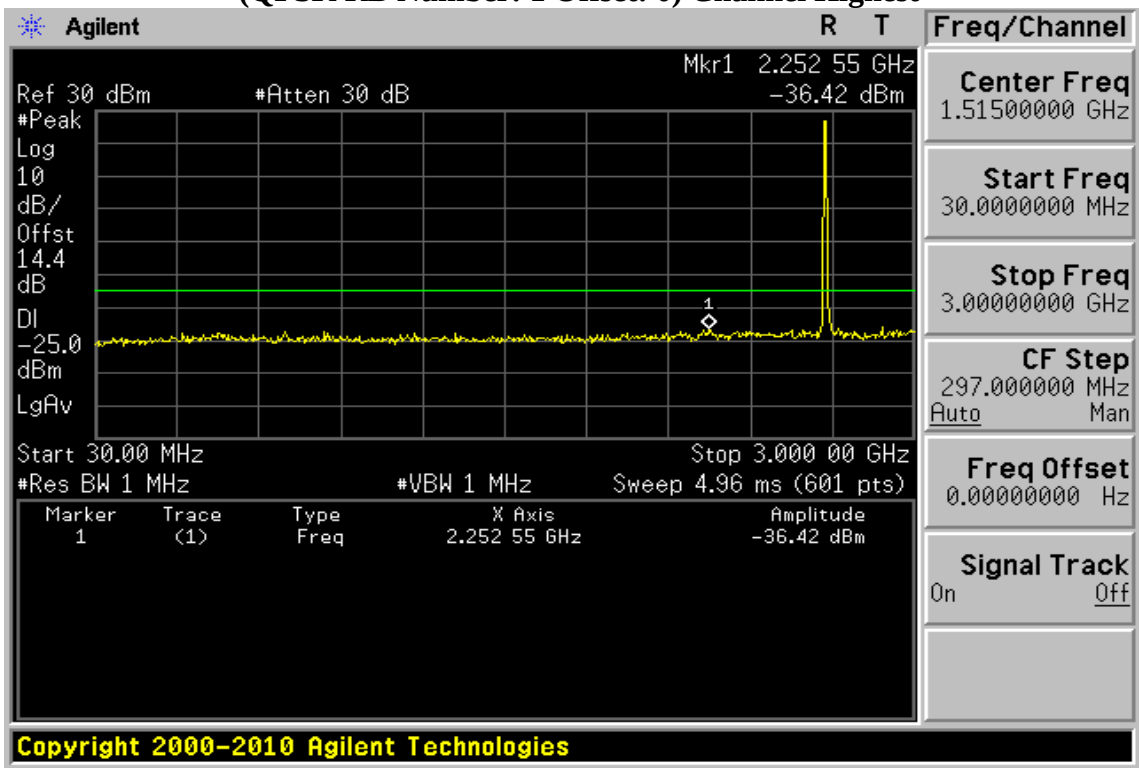
Figure 9-185: Out of Band emission at antenna terminals – 15MHz BW LTE-Band 41 (QPSK RB Number: 1 Offset: 0) Channel Highest



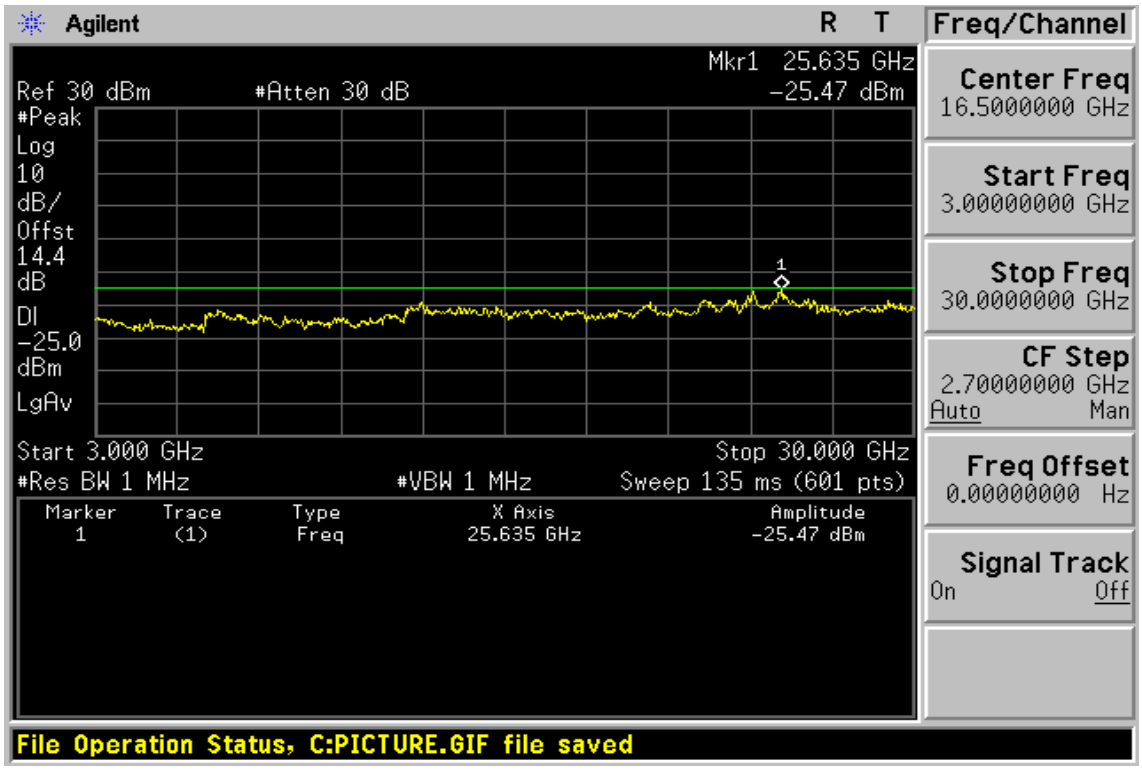


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Figure 9-186: Band edge emission at antenna terminals – 15MHz BW LTE-Band 41 (QPSK RB Number: 1 Offset: 0) Channel Lowest

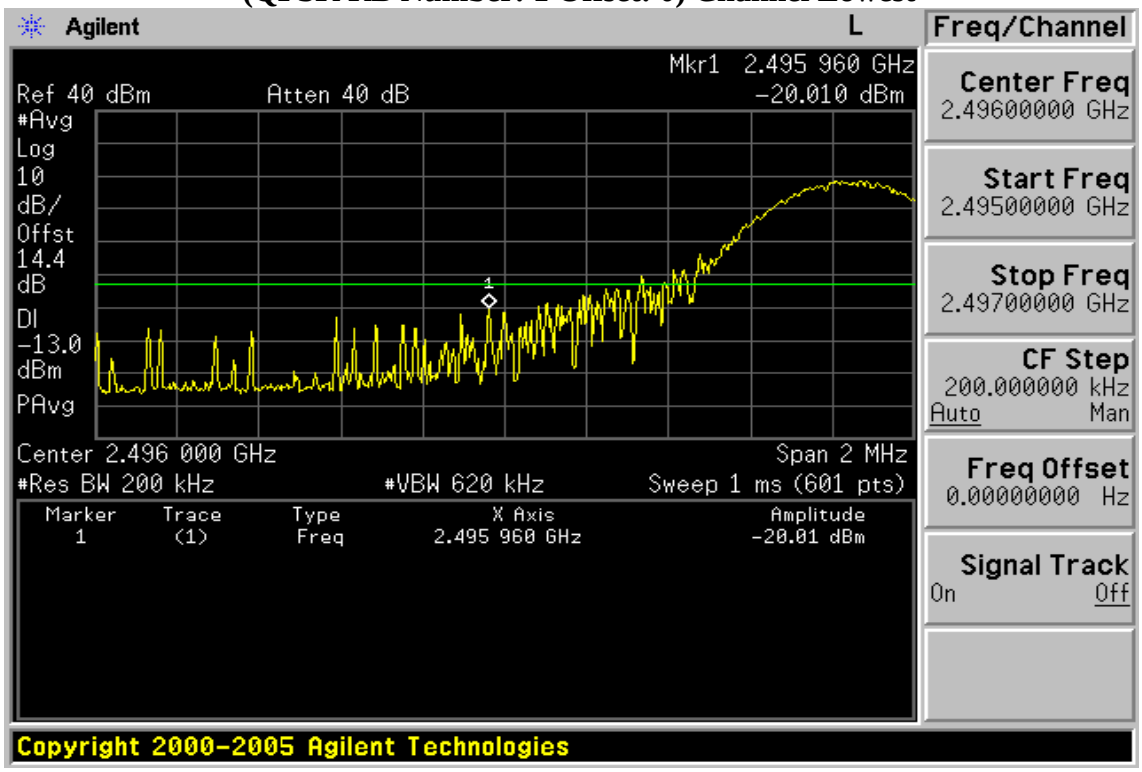

Figure 9-187: Band edge emission at antenna terminals – 15MHz BW LTE-Band 41 (QPSK RB Number: 1 Offset: 74) Channel Highest

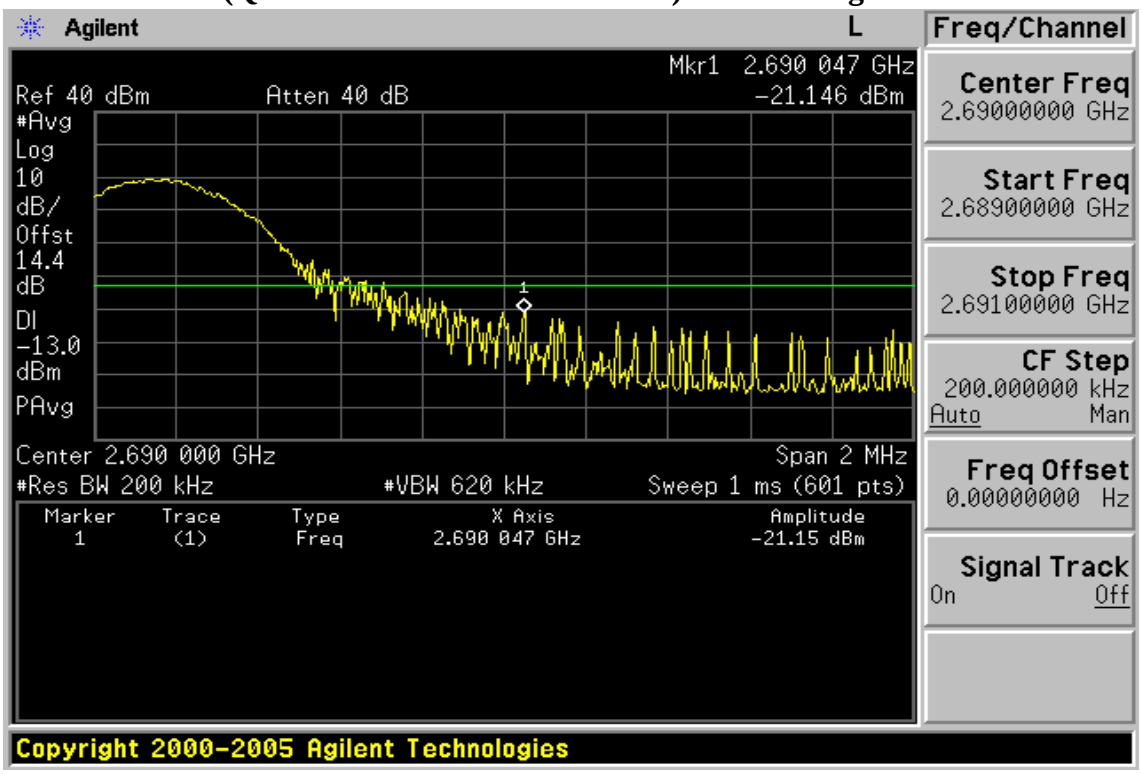

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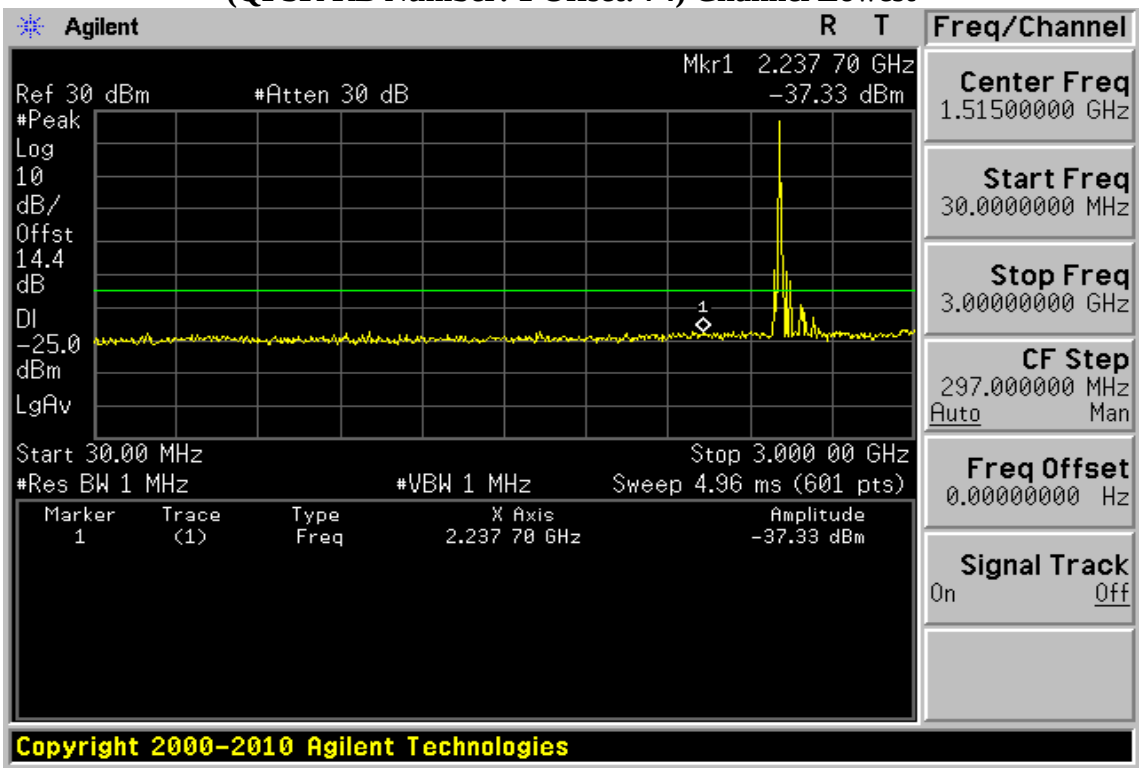
Figure 9-188: Out of Band emission at antenna terminals – 15MHz BW LTE-Band 41 (QPSK RB Number: 1 Offset: 74) Channel Lowest



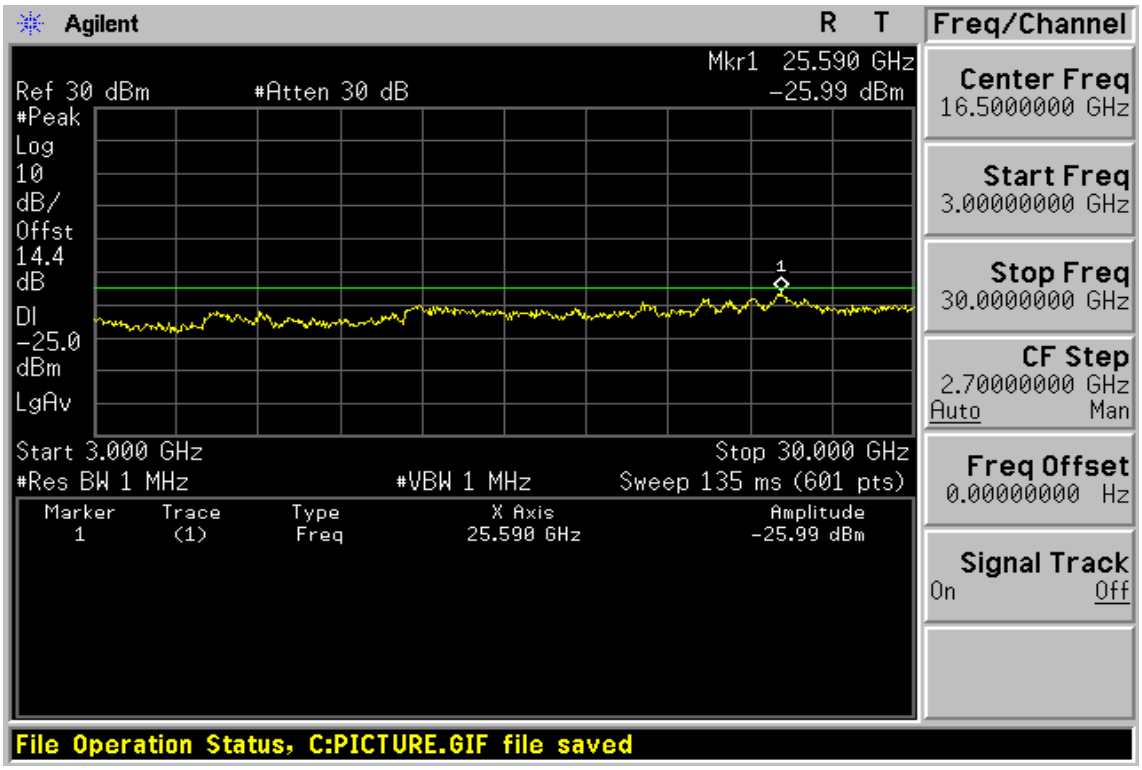


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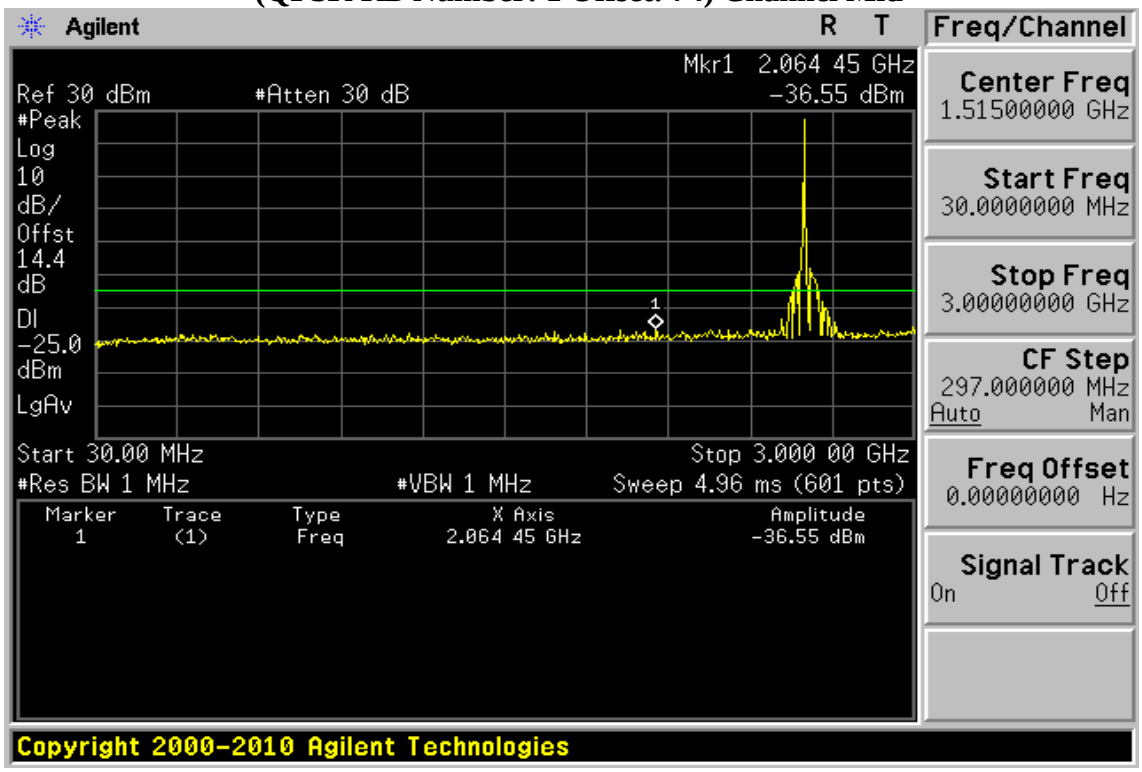
Figure 9-189: Out of Band emission at antenna terminals – 15MHz BW LTE-Band 41 (QPSK RB Number: 1 Offset: 74) Channel Mid



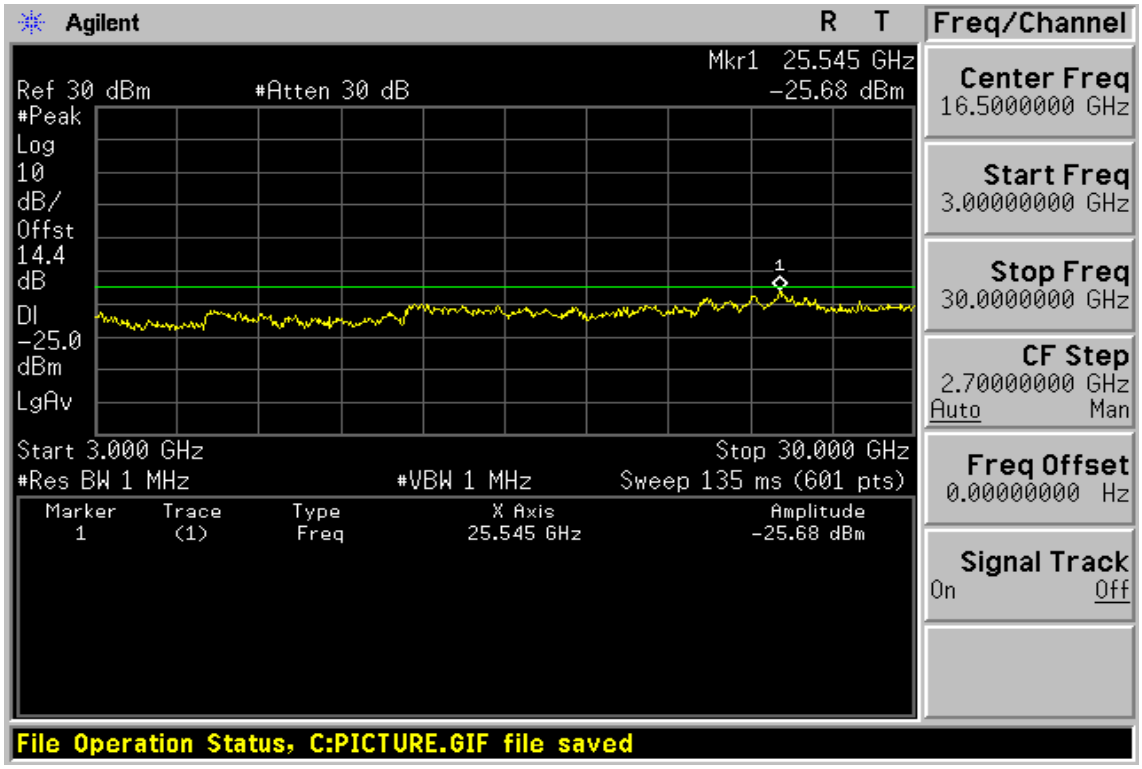


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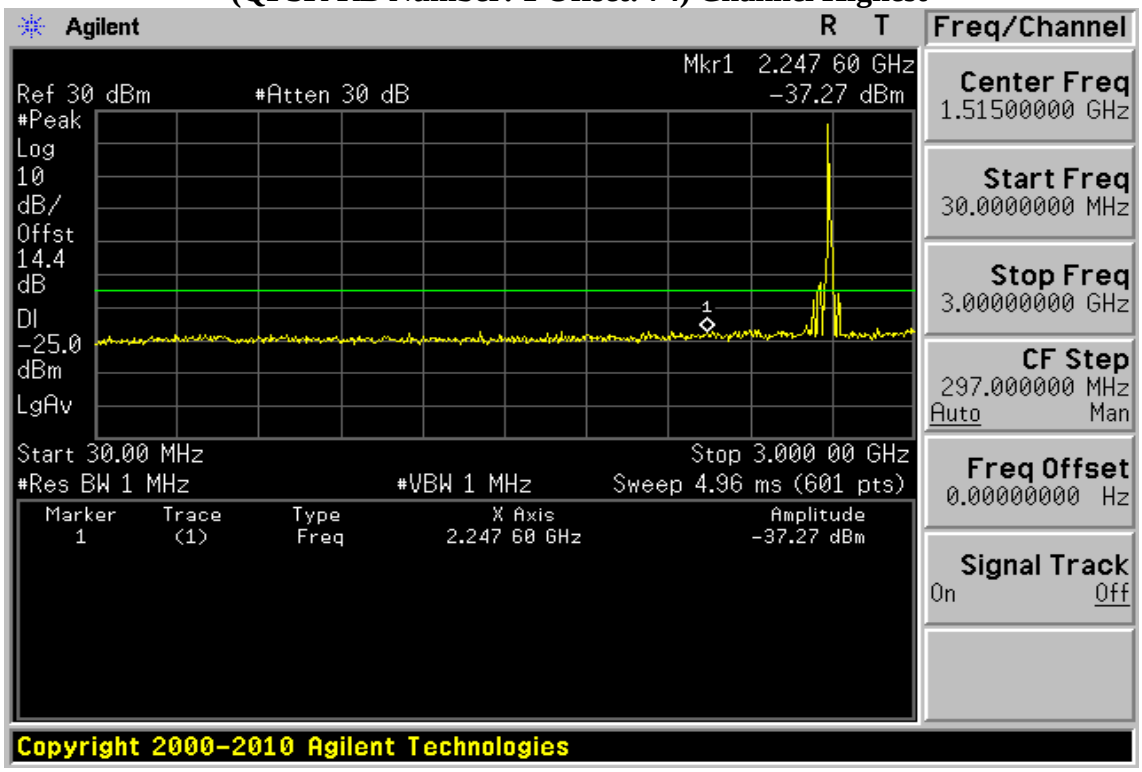
Figure 9-190: Out of Band emission at antenna terminals – 15MHz BW LTE-Band 41 (QPSK RB Number: 1 Offset: 74) Channel Highest



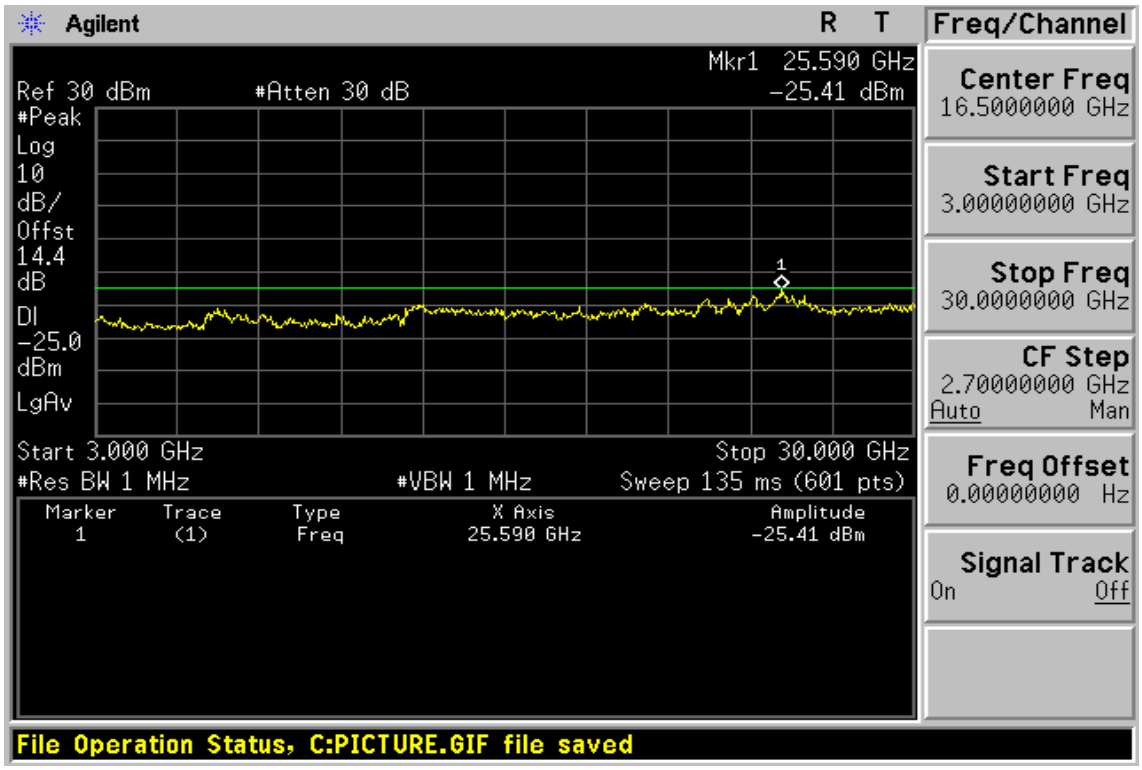


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Figure 9-191: Band edge emission at antenna terminals – 15MHz BW LTE-Band 41 (QPSK RB Number: 75 Offset: 0) Channel Lowest

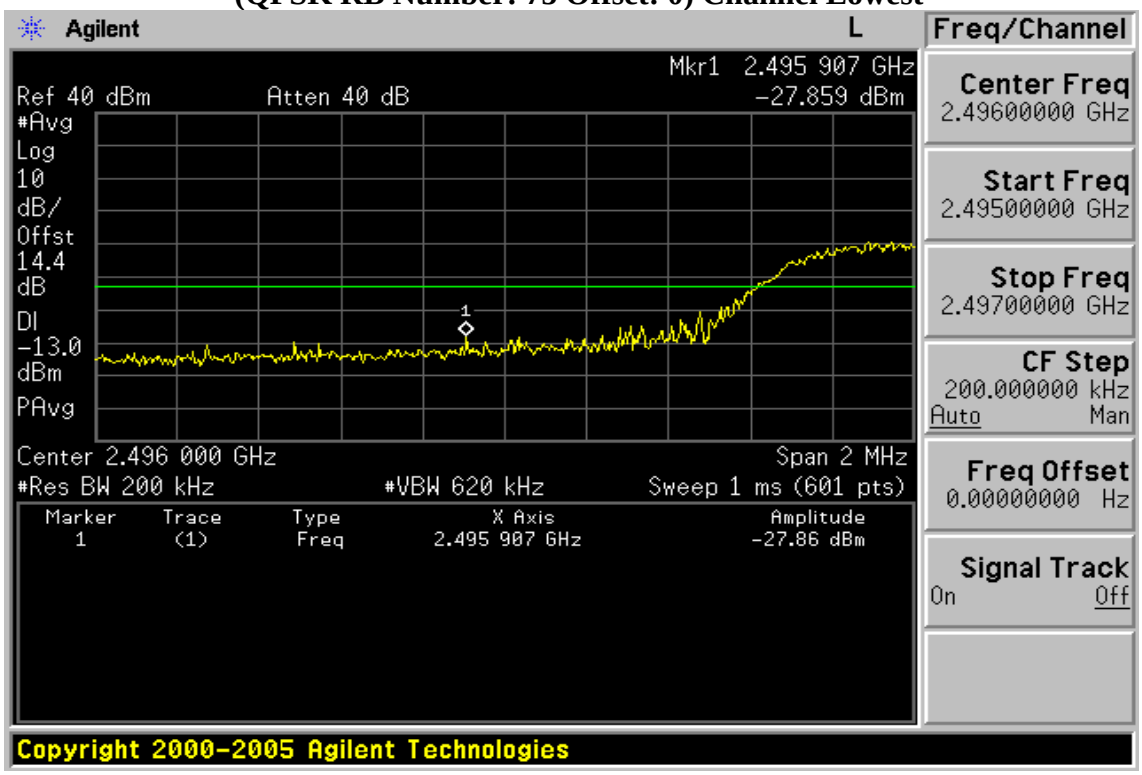

Figure 9-192: Band edge emission at antenna terminals – 15MHz BW LTE-Band 41 (QPSK RB Number: 75 Offset: 0) Channel Highest

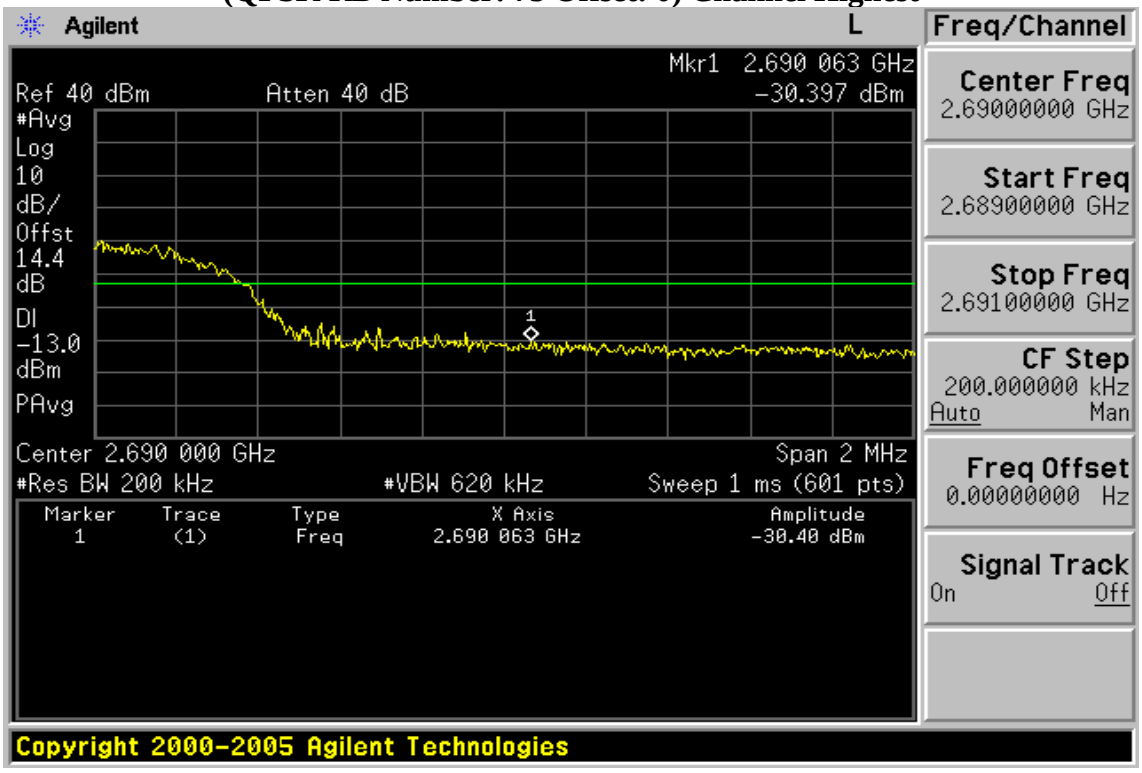

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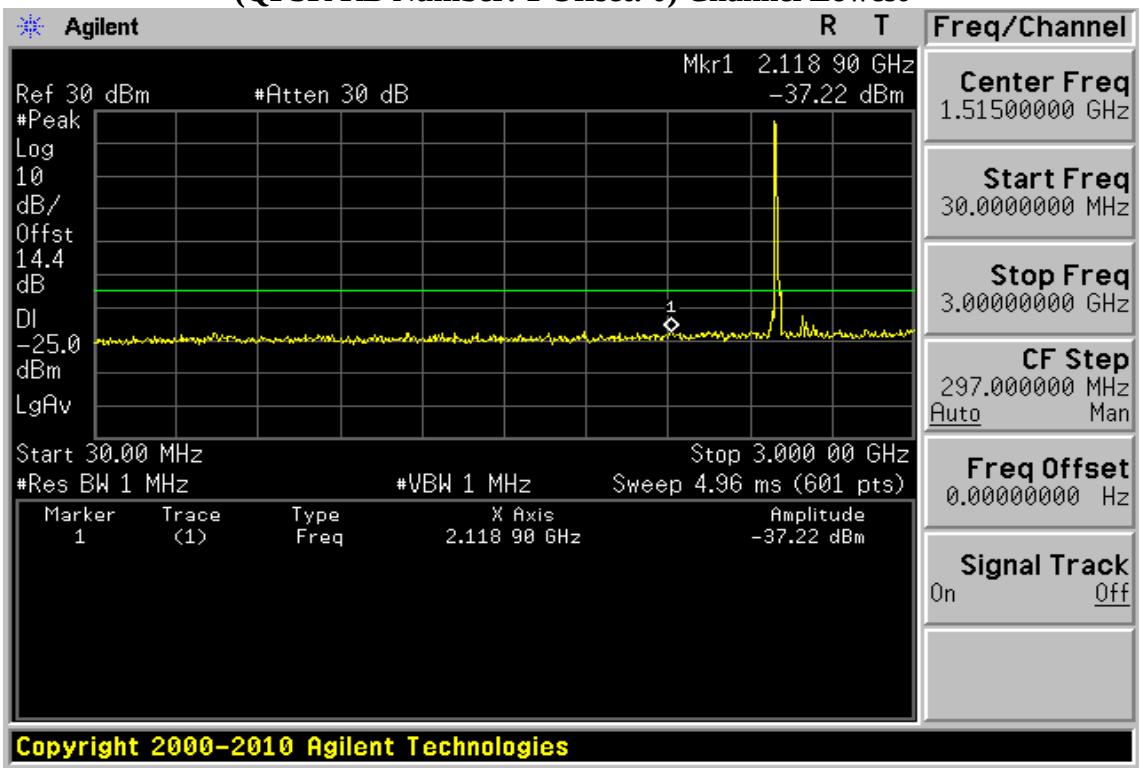
Figure 9-193: Out of Band emission at antenna terminals – 20MHz BW LTE-Band 41 (QPSK RB Number: 1 Offset: 0) Channel Lowest



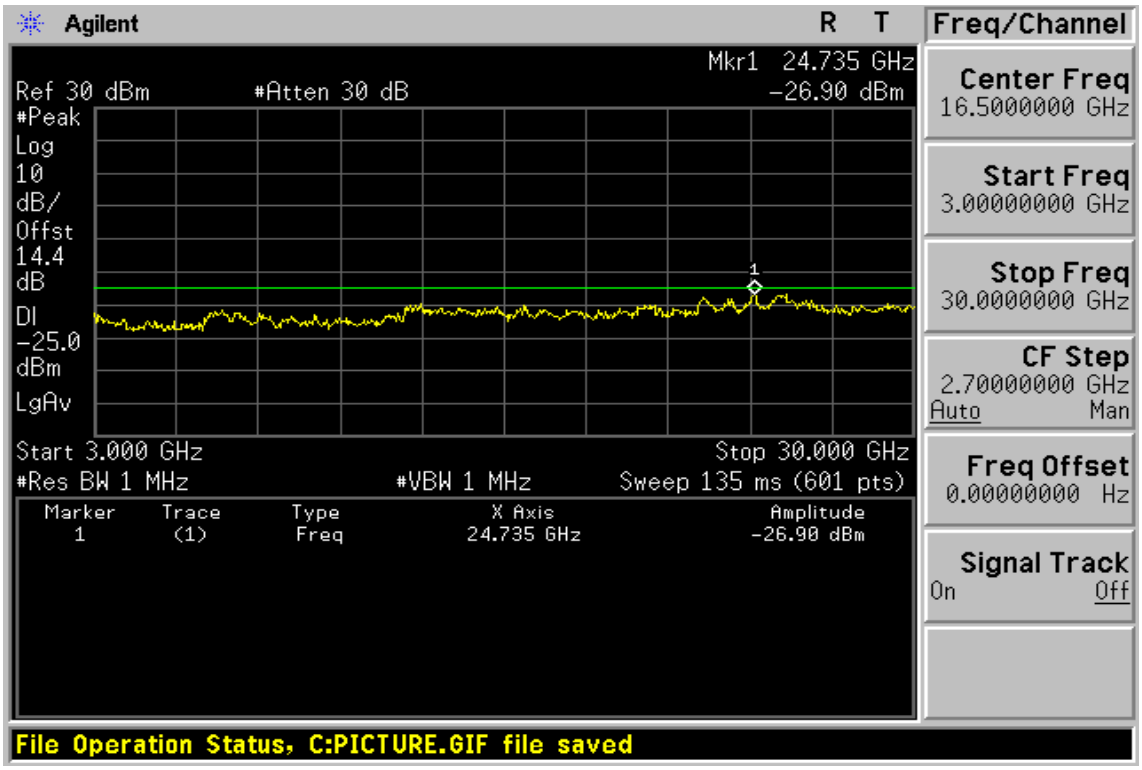


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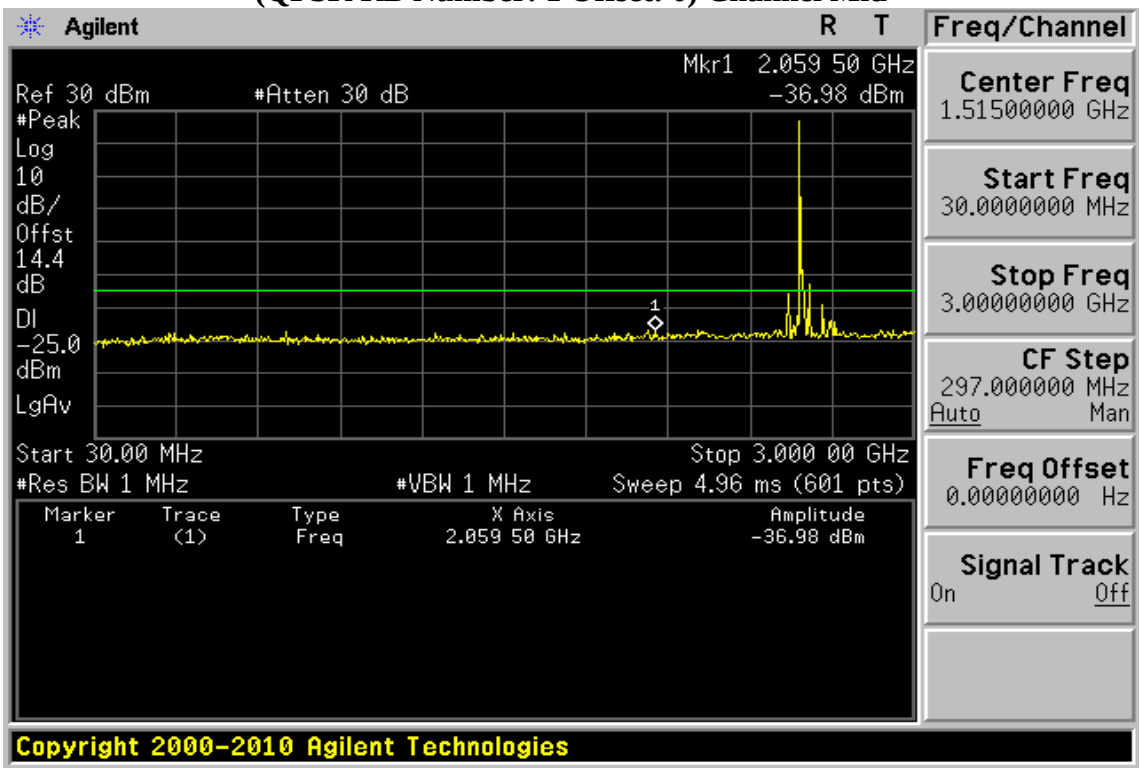
Figure 9-194: Out of Band emission at antenna terminals – 20MHz BW LTE-Band 41 (QPSK RB Number: 1 Offset: 0) Channel Mid



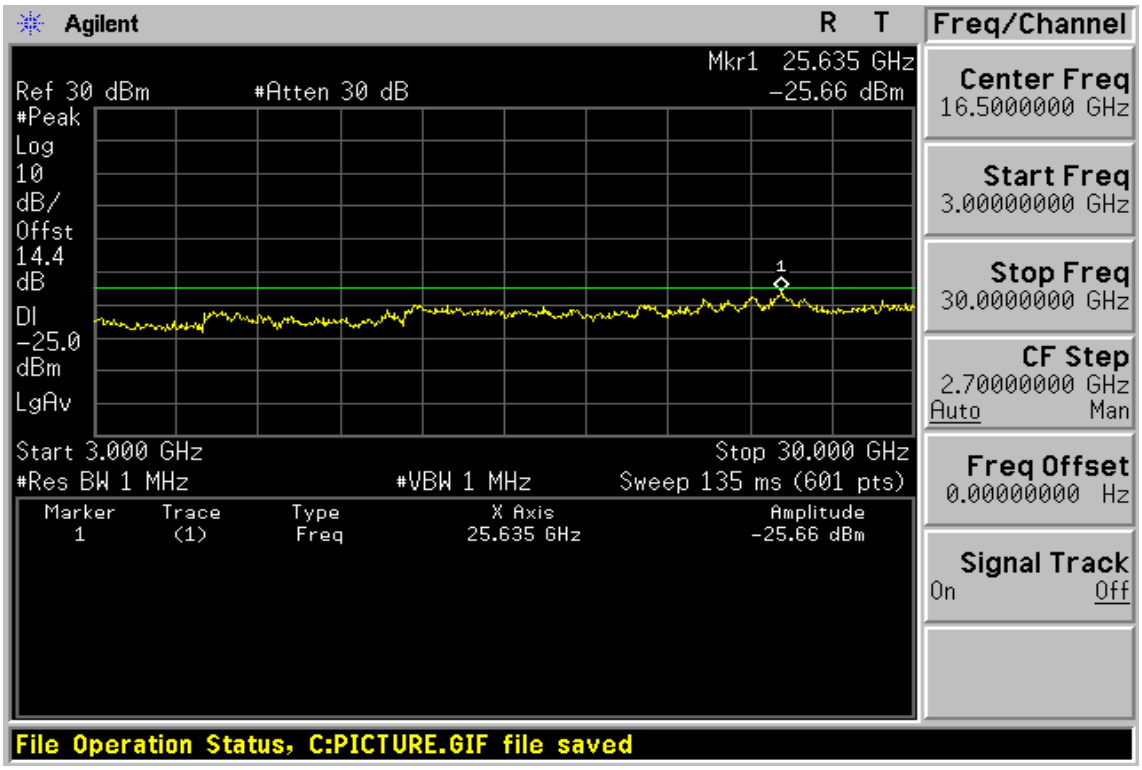


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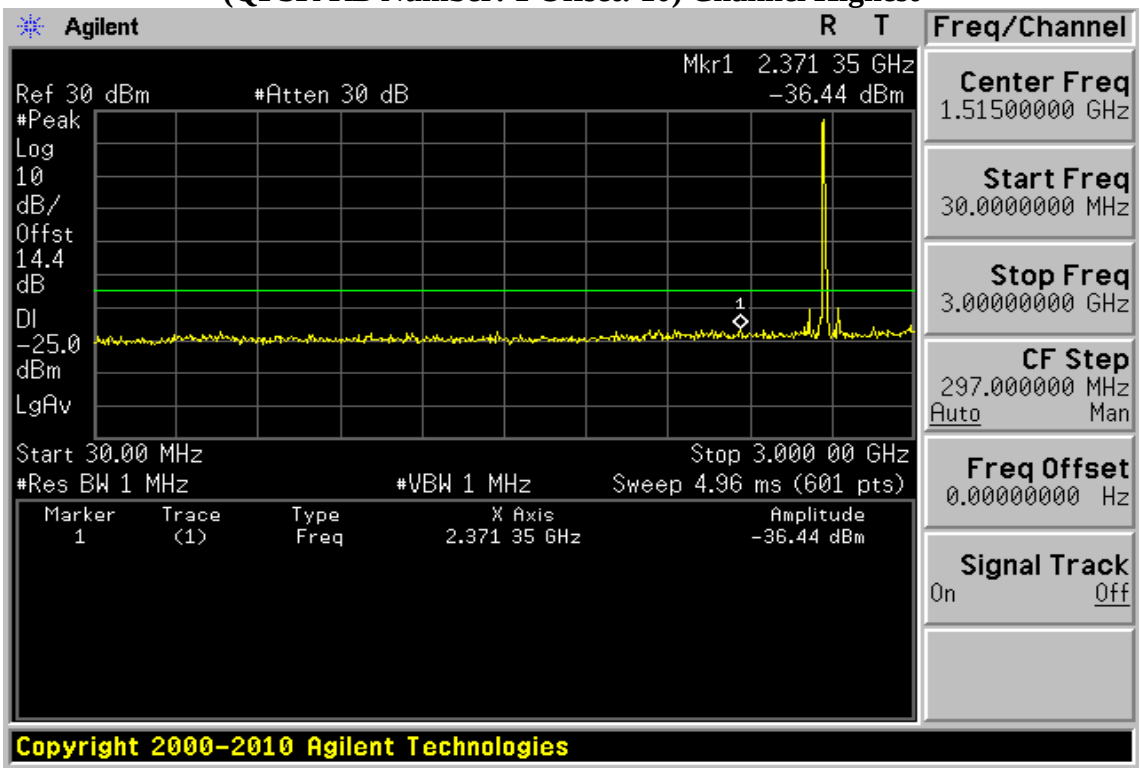
Figure 9-195: Out of Band emission at antenna terminals – 20MHz BW LTE-Band 41 (QPSK RB Number: 1 Offset: 10) Channel Highest



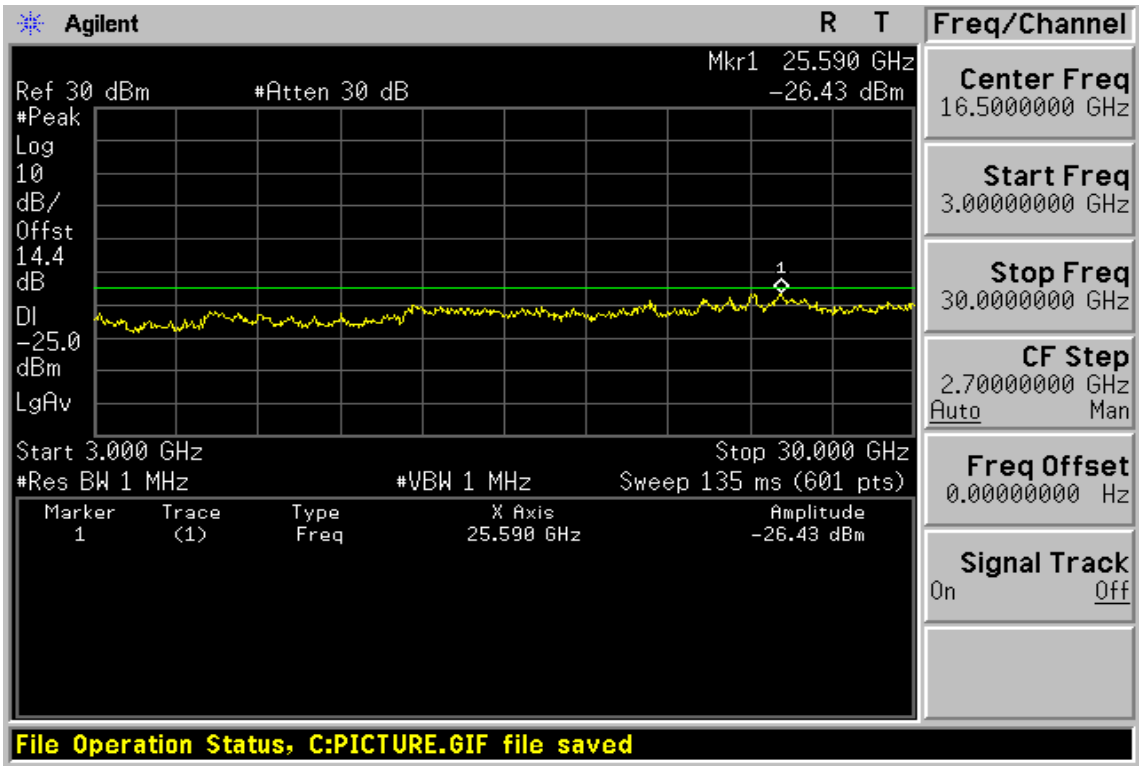


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Figure 9-196: Band edge emission at antenna terminals – 20MHz BW LTE-Band 41 (QPSK RB Number: 1 Offset: 0) Channel Lowest

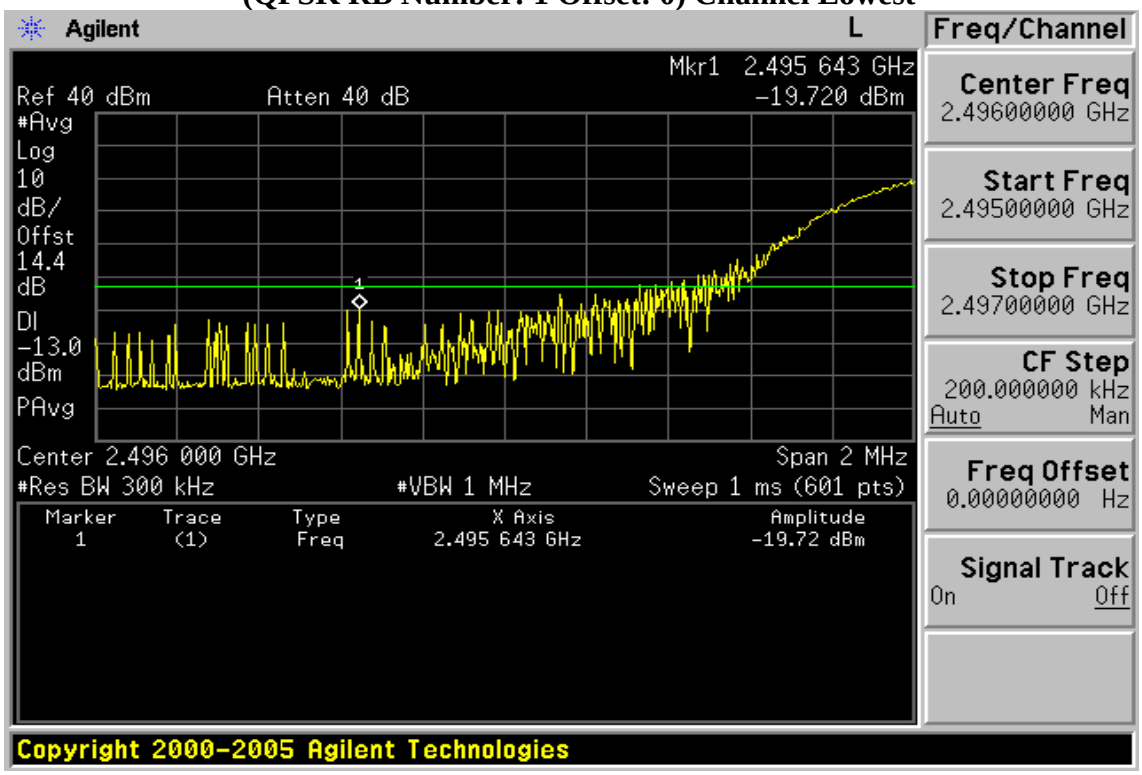

Figure 9-197: Band edge emission at antenna terminals – 20MHz BW LTE-Band 41 (QPSK RB Number: 1 Offset: 99) Channel Highest

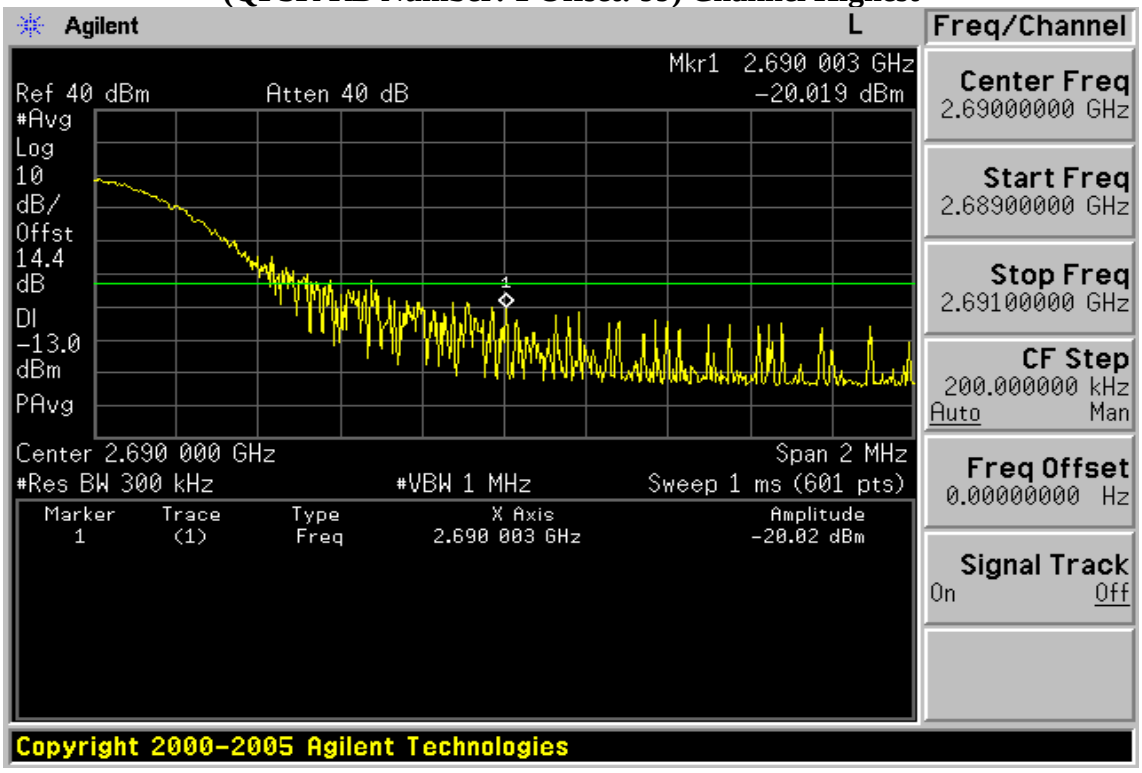

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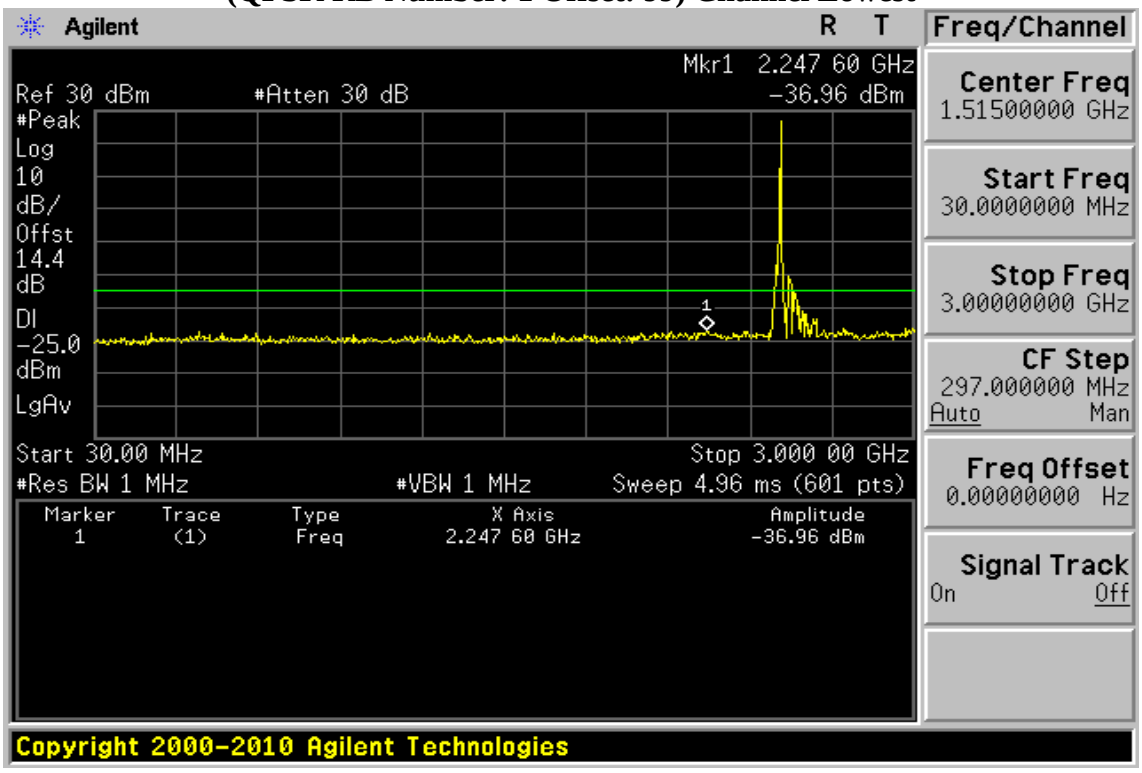
Figure 9-198: Out of Band emission at antenna terminals – 20MHz BW LTE-Band 41 (QPSK RB Number: 1 Offset: 99) Channel Lowest



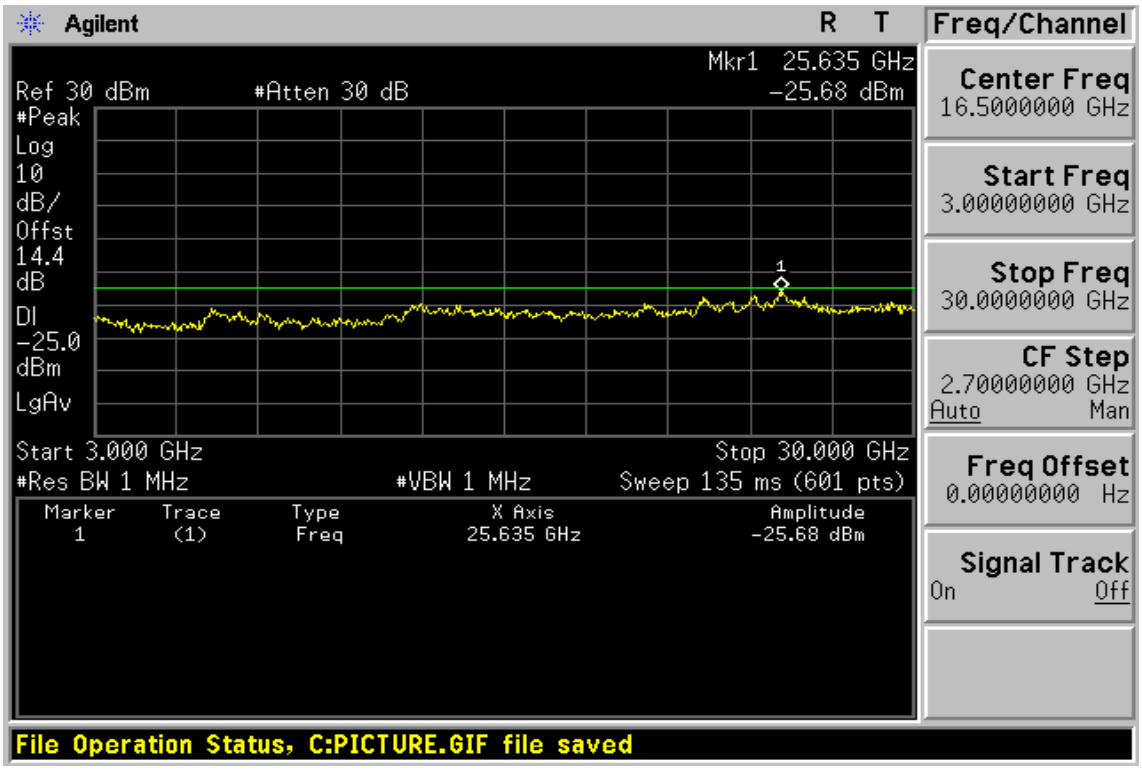


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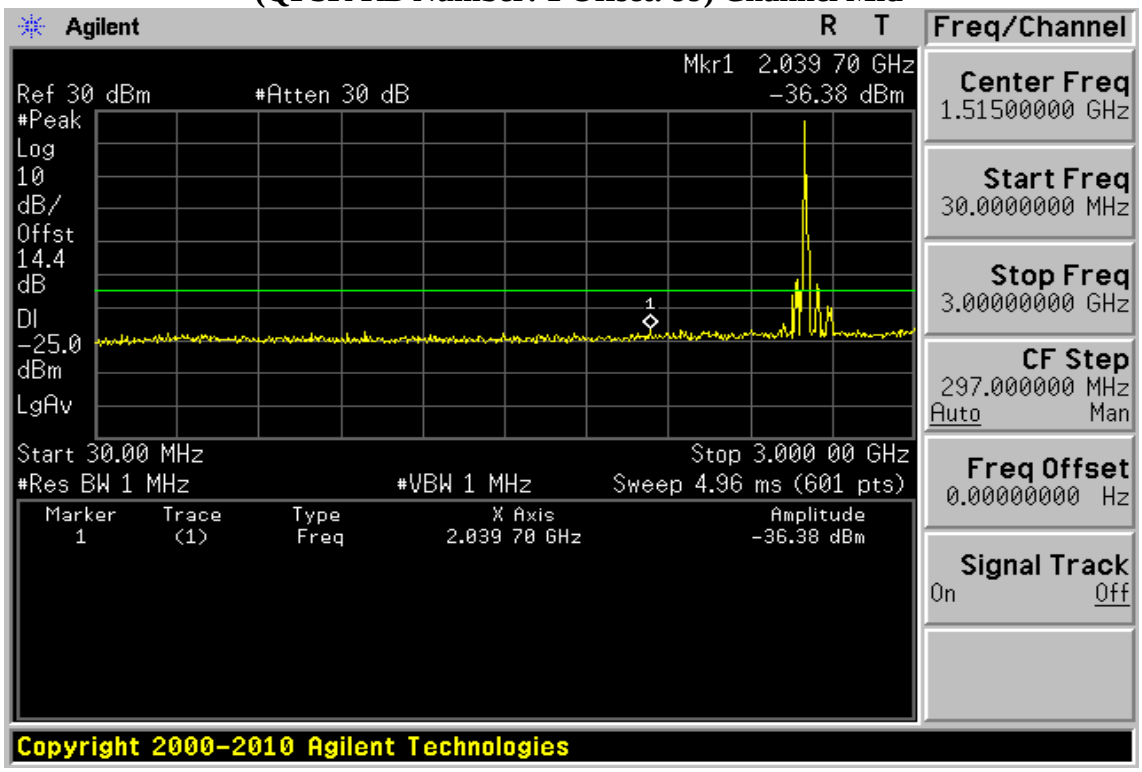
Figure 9-199: Out of Band emission at antenna terminals – 20MHz BW LTE-Band 41 (QPSK RB Number: 1 Offset: 99) Channel Mid



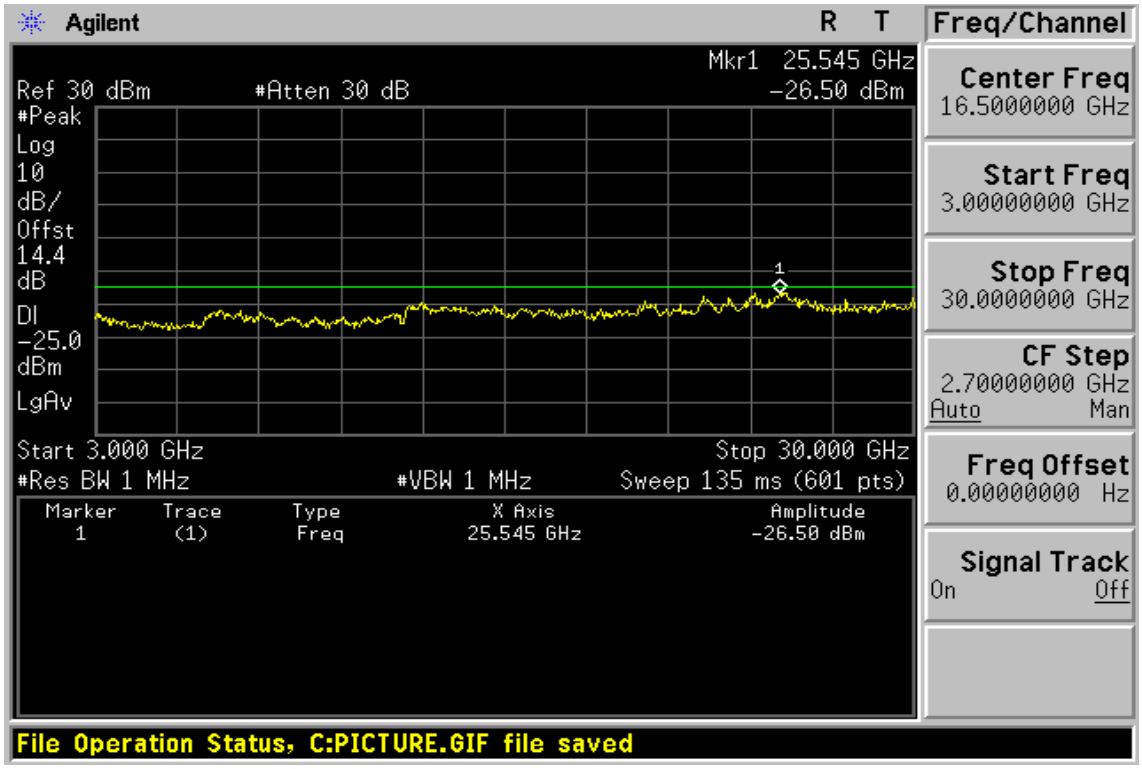


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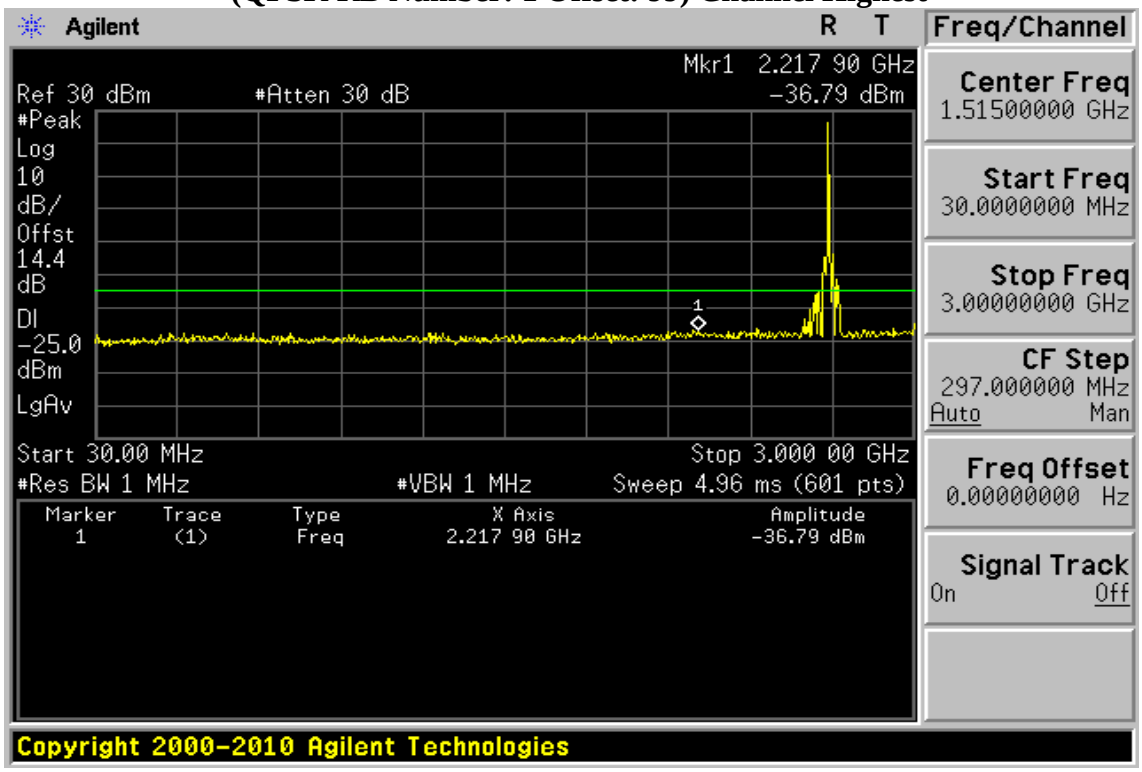
Figure 9-200: Out of Band emission at antenna terminals – 20MHz BW LTE-Band 41 (QPSK RB Number: 1 Offset: 99) Channel Highest



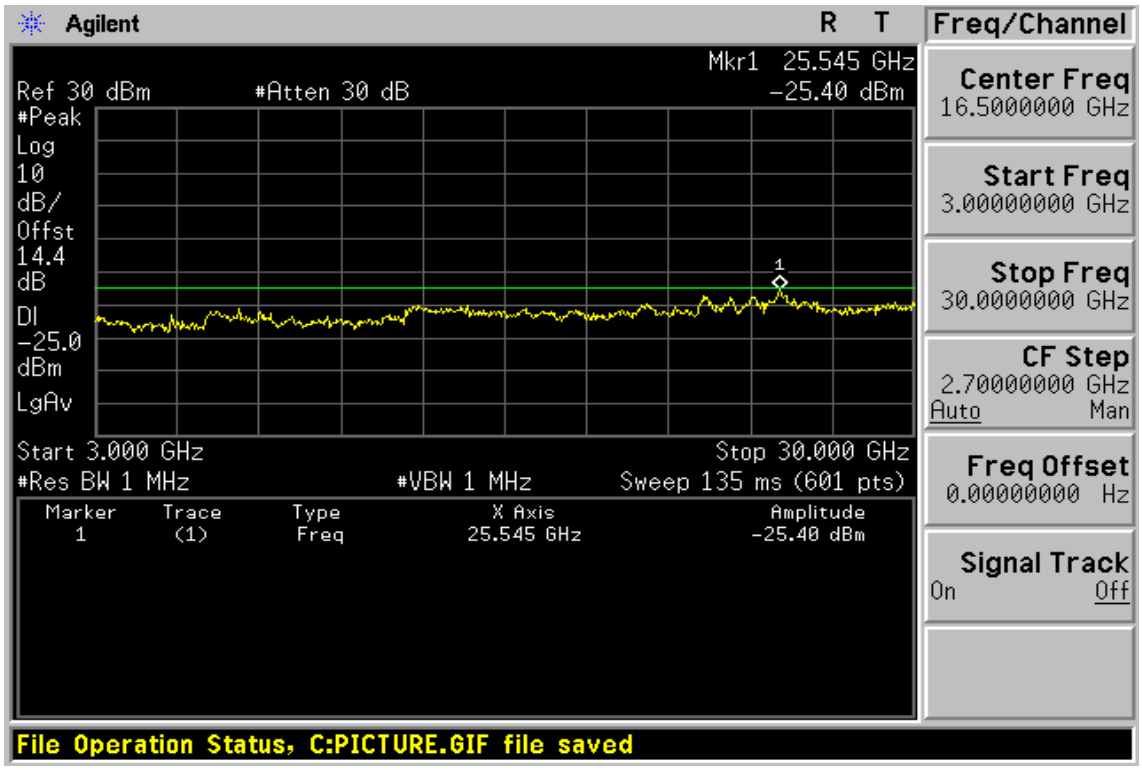


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Figure 9-201: Band edge emission at antenna terminals – 20MHz BW LTE-Band 41 (QPSK RB Number: 100 Offset: 0) Channel Lowest

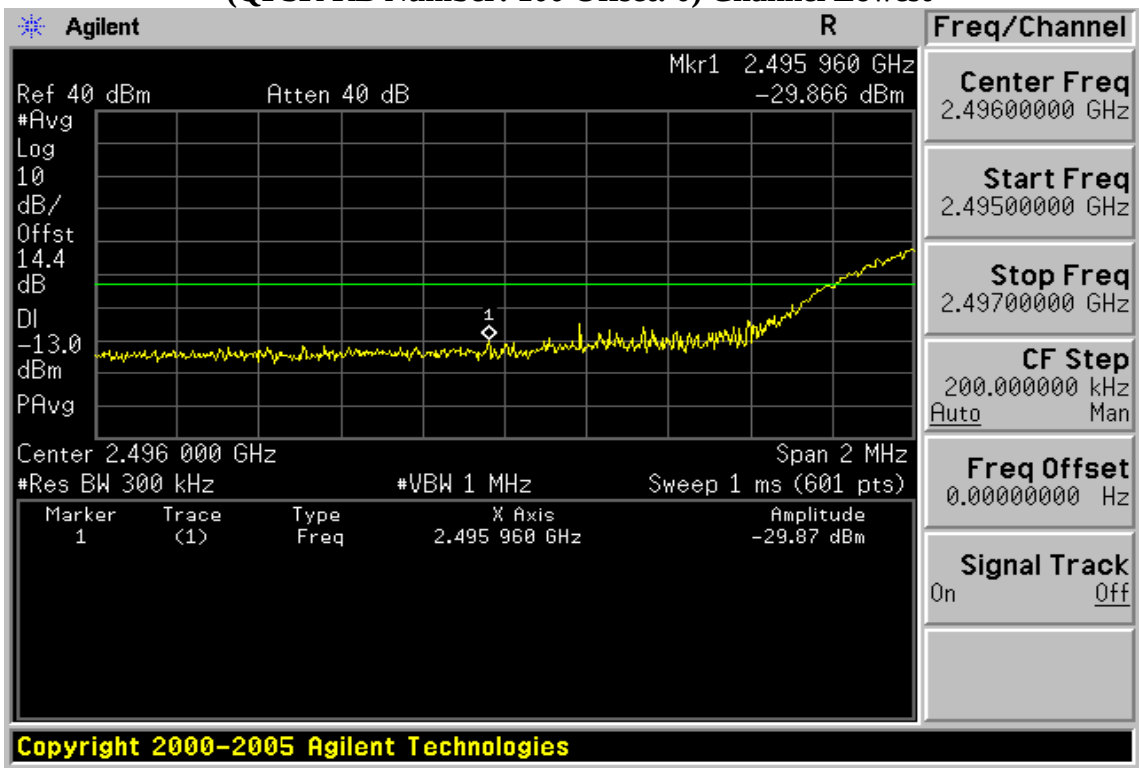
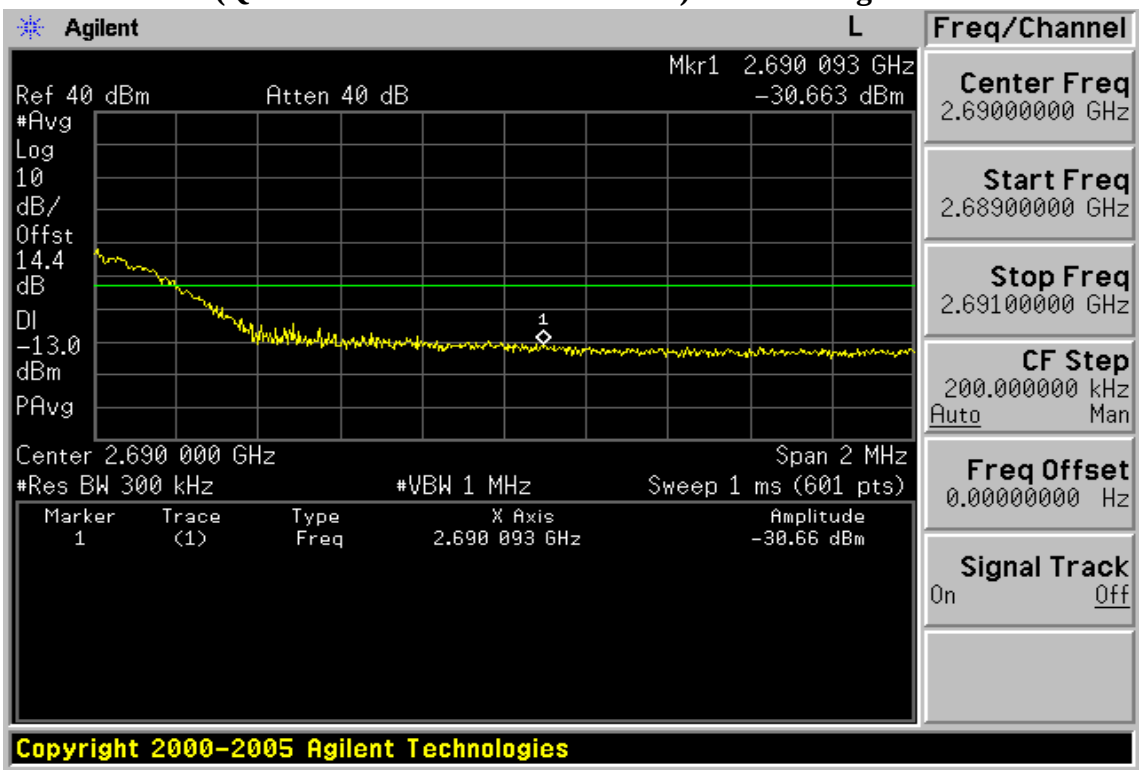


Figure 9-202: Band edge emission at antenna terminals – 20MHz BW LTE-Band 41 (QPSK RB Number: 100 Offset: 0) Channel Highest



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10. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

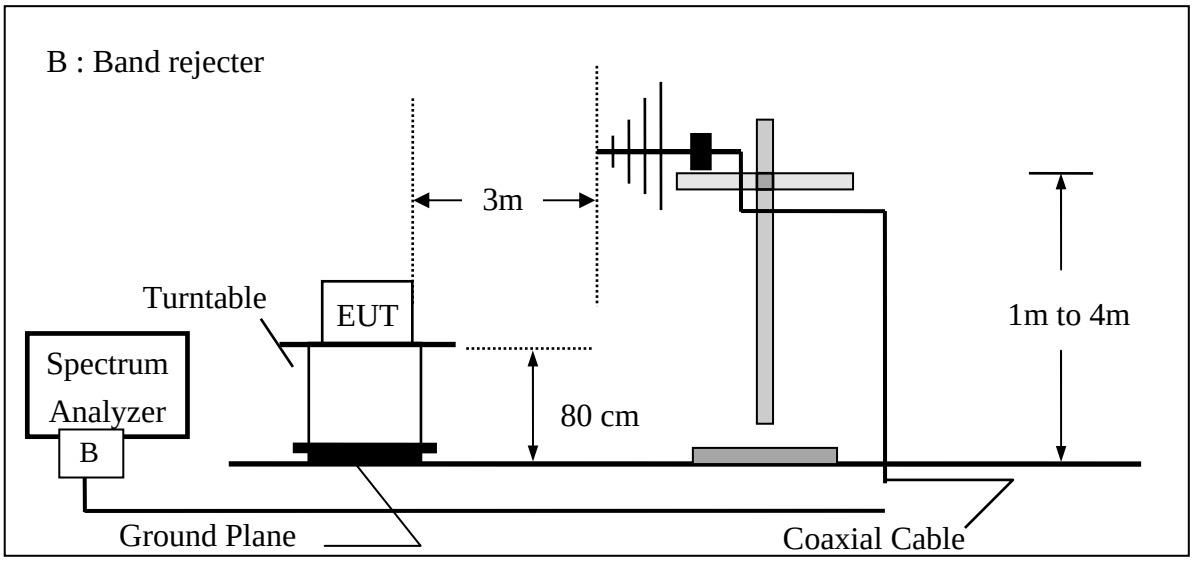
10.1. Standard Applicable:

According to FCC §2.1053,

FCC §22.917(a),§24.238(a) , §27.53 the magnitude of each spurious and harmonic emission that can be detected when the equipment is operated under the conditions specified in the instruction manual and/ or alignment procedure, shall not be less than 43 + 10 log (mean output power in watts) dBc below the mean power output outside a license's frequency block (-13dBm). §27.53 (m) (4) shall not be less than 55 +10log(mean output power in watt) dBc below the mean power output outside a license's frequency block (-25dBm).

10.2. EUT Setup (Block Diagram of Configuration):

Radiated Emission Test Set-Up, Frequency Below 1000MHz



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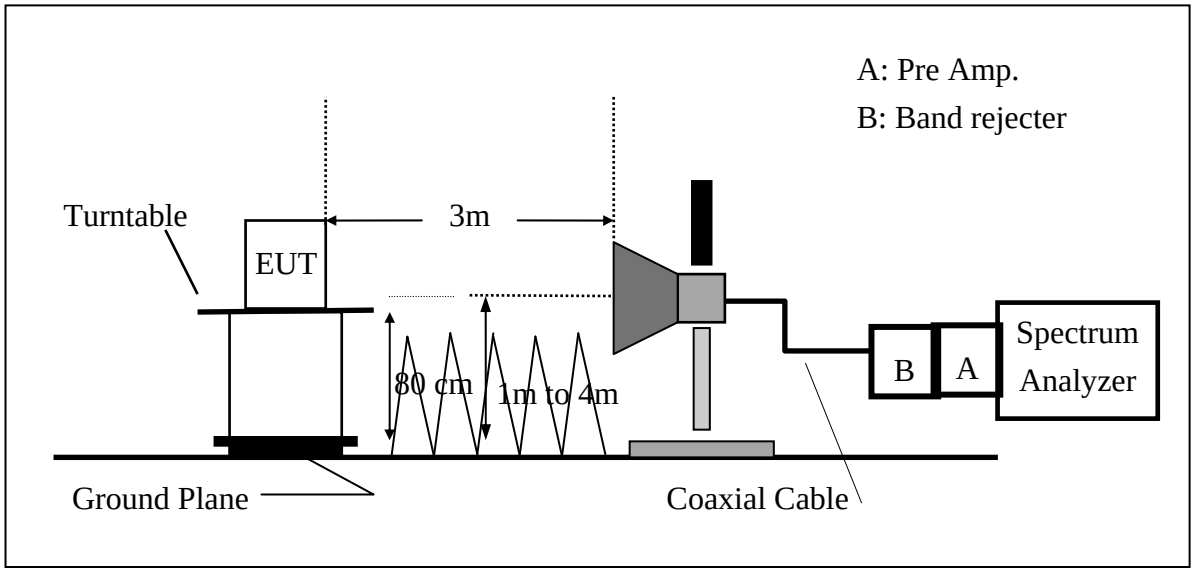
Radiated Emission Test Set-UP Frequency Over 1 GHz



10.3. Measurement Procedure:

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

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

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

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

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

10.4. Measurement Equipment Used:

Refer to section 2.4 in this report

10.5. Measurement Result:

Refer to attach tabular data sheets.

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

Operation Band	:EVDO BC0	Test Date	:2015-01-15
ARFCN	:CH 1013	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:824.7 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
89.17	S	-52.60	-50.99	-0.43	-1.18	-13.00	-39.60
224.97	S	-61.12	-63.18	3.67	-1.61	-13.00	-48.12
399.57	S	-67.29	-69.24	4.02	-2.07	-13.00	-54.29
549.92	S	-71.83	-73.22	3.89	-2.49	-13.00	-58.83
751.68	S	-65.77	-66.60	3.68	-2.85	-13.00	-52.77
900.09	S	-66.72	-67.03	3.56	-3.26	-13.00	-53.72
1649.40	H	-57.47	-56.61	3.55	-4.42	-13.00	-44.47
2474.10	H	---					
3298.80	H	---					
4123.50	H	---					
4948.20	H	---					
5772.90	H	---					
6597.60	H	---					
7422.30	H	---					
8247.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor..

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Operation Band	:EVDO BC0	Test Date	:2015-01-15
ARFCN	:CH 1013	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:824.7 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
35.82	S	-55.14	-41.38	-12.95	-0.80	-13.00	-42.14
252.13	S	-63.53	-65.12	3.30	-1.72	-13.00	-50.53
438.37	S	-72.23	-73.93	3.88	-2.18	-13.00	-59.23
515.97	S	-71.72	-73.26	3.94	-2.40	-13.00	-58.72
750.71	S	-69.19	-70.02	3.68	-2.85	-13.00	-56.19
913.67	S	-66.61	-66.82	3.50	-3.28	-13.00	-53.61
1649.40	H	-60.30	-59.44	3.55	-4.42	-13.00	-47.30
2474.10	H	---					
3298.80	H	---					
4123.50	H	---					
4948.20	H	---					
5772.90	H	---					
6597.60	H	---					
7422.30	H	---					
8247.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:EVDO BC0	Test Date	:2015-01-15
ARFCN	:CH 384	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:836.52 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
89.17	S	-53.02	-51.41	-0.43	-1.18	-13.00	-40.02
223.03	S	-60.99	-63.00	3.62	-1.61	-13.00	-47.99
408.30	S	-65.45	-67.34	3.99	-2.10	-13.00	-52.45
553.80	S	-72.22	-73.59	3.87	-2.50	-13.00	-59.22
756.53	S	-66.28	-67.10	3.69	-2.86	-13.00	-53.28
889.42	S	-66.58	-66.96	3.61	-3.23	-13.00	-53.58
1673.04	H	-54.85	-53.90	3.49	-4.45	-13.00	-41.85
2509.56	H	---					
3346.08	H	---					
4182.60	H	---					
5019.12	H	---					
5855.64	H	---					
6692.16	H	---					
7528.68	H	---					
8365.20	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:EVDO BC0	Test Date	:2015-01-15
ARFCN	:CH 384	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:836.52 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
34.85	S	-54.82	-40.84	-13.17	-0.80	-13.00	-41.82
152.22	S	-71.93	-68.71	-1.83	-1.39	-13.00	-58.93
447.10	S	-72.75	-74.39	3.85	-2.21	-13.00	-59.75
550.89	S	-72.42	-73.81	3.88	-2.49	-13.00	-59.42
756.53	S	-68.55	-69.37	3.69	-2.86	-13.00	-55.55
883.60	S	-65.54	-65.96	3.63	-3.21	-13.00	-52.54
1673.40	H	-56.57	-55.62	3.49	-4.45	-13.00	-43.57
2509.56	H	---					
3346.08	H	---					
4182.60	H	---					
5019.12	H	---					
5855.64	H	---					
6692.16	H	---					
7528.68	H	---					
8365.20	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:EVDO BC0	Test Date	:2015-01-15
ARFCN	:CH 777	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:848.31 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
90.14	S	-53.48	-52.03	-0.25	-1.20	-13.00	-40.48
164.83	S	-60.01	-57.86	-0.73	-1.42	-13.00	-47.01
385.99	S	-71.09	-73.08	4.03	-2.05	-13.00	-58.09
475.23	S	-71.35	-72.97	3.90	-2.29	-13.00	-58.35
753.62	S	-66.62	-67.45	3.69	-2.86	-13.00	-53.62
940.83	S	-66.92	-66.97	3.38	-3.32	-13.00	-53.92
1696.62	H	-51.11	-50.06	3.44	-4.48	-13.00	-38.11
2544.93	H	---					
3393.24	H	---					
4241.55	H	---					
5089.86	H	---					
5938.17	H	---					
6786.48	H	---					
7634.79	H	---					
8483.10	H	---					

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:EVDO BC0	Test Date	:2015-01-15
ARFCN	:CH 777	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:848.31 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
33.88	S	-54.91	-40.71	-13.40	-0.80	-13.00	-41.91
249.22	S	-70.46	-72.09	3.33	-1.71	-13.00	-57.46
426.73	S	-72.61	-74.38	3.92	-2.15	-13.00	-59.61
477.17	S	-72.63	-74.25	3.91	-2.29	-13.00	-59.63
756.53	S	-69.59	-70.41	3.69	-2.86	-13.00	-56.59
947.62	S	-66.15	-66.16	3.35	-3.33	-13.00	-53.15
1696.62	H	-54.42	-53.37	3.44	-4.48	-13.00	-41.42
2544.93	H	---					
3393.24	H	---					
4241.55	H	---					
5089.86	H	---					
5938.17	H	---					
6786.48	H	---					
7634.79	H	---					
8483.10	H	---					

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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

Operation Band	:EVDO BC1	Test Date	:2015-01-15
ARFCN	:CH 25	Temp./Humi.	:22 deg_C / 61 RH
Fundamental Frequency	:1851.25 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	: H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
89.17	S	-50.56	-51.10	1.72	-1.18	-13.00	-37.56
225.94	S	-59.52	-63.75	5.85	-1.62	-13.00	-46.52
321.97	S	-70.32	-74.43	6.03	-1.92	-13.00	-57.32
530.52	S	-70.30	-73.93	6.06	-2.44	-13.00	-57.30
754.59	S	-64.24	-67.22	5.84	-2.86	-13.00	-51.24
921.43	S	-64.93	-67.25	5.61	-3.29	-13.00	-51.93
3702.50	H	-48.66	-50.99	9.13	-6.80	-13.00	-35.66
5553.75	H	---					
7405.00	H	---					
9256.25	H	---					
11107.50	H	---					
12958.75	H	---					
14810.00	H	---					
16661.25	H	---					
18512.50	H	---					

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

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:EVDO BC1	Test Date	:2015-01-15
ARFCN	:CH 25	Temp./Humi.	:22 deg_C / 61 RH
Fundamental Frequency	:1851.25 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
33.88	S	-54.13	-42.08	-11.25	-0.80	-13.00	-41.13
162.89	S	-72.55	-72.47	1.34	-1.42	-13.00	-59.55
431.58	S	-66.11	-70.00	6.06	-2.17	-13.00	-53.11
518.88	S	-70.00	-73.67	6.08	-2.40	-13.00	-57.00
758.47	S	-67.49	-70.47	5.84	-2.87	-13.00	-54.49
934.04	S	-65.36	-67.60	5.56	-3.31	-13.00	-52.36
3702.50	H	-57.70	-60.02	9.13	-6.80	-13.00	-44.70
5553.75	H	---					
7405.00	H	---					
9256.25	H	---					
11107.50	H	---					
12958.75	H	---					
14810.00	H	---					
16661.25	H	---					
18512.50	H	---					

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

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:EVDO BC1	Test Date	:2015-01-15
ARFCN	:CH 600	Temp./Humi.	:22 deg_C / 61 RH
Fundamental Frequency	:1880 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
89.17	S	-50.01	-50.55	1.72	-1.18	-13.00	-37.01
224.00	S	-59.86	-64.04	5.79	-1.61	-13.00	-46.86
449.04	S	-68.79	-72.57	6.00	-2.22	-13.00	-55.79
547.01	S	-69.81	-73.37	6.04	-2.48	-13.00	-56.81
699.30	S	-64.52	-67.81	6.03	-2.74	-13.00	-51.52
916.58	S	-64.90	-67.25	5.64	-3.29	-13.00	-51.90
3760.00	H	-54.69	-57.00	9.16	-6.85	-13.00	-41.69
5640.00	H	---					
7520.00	H	---					
9400.00	H	---					
11280.00	H	---					
13160.00	H	---					
15040.00	H	---					
16920.00	H	---					
18800.00	H	---					

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

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Operation Band	:EVDO BC1	Test Date	:2015-01-15
ARFCN	:CH 600	Temp./Humi.	:22 deg_C / 61 RH
Fundamental Frequency	:1880 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
34.85	S	-54.28	-42.45	-11.02	-0.80	-13.00	-41.28
154.16	S	-71.39	-70.54	0.54	-1.39	-13.00	-58.39
429.64	S	-66.76	-70.66	6.06	-2.16	-13.00	-53.76
519.85	S	-70.89	-74.57	6.08	-2.41	-13.00	-57.89
760.41	S	-67.69	-70.67	5.84	-2.87	-13.00	-54.69
821.52	S	-64.45	-67.33	5.90	-3.02	-13.00	-51.45
3760.00	H	-57.03	-59.34	9.16	-6.85	-13.00	-44.03
5640.00	H	---					
7520.00	H	---					
9400.00	H	---					
11280.00	H	---					
13160.00	H	---					
15040.00	H	---					
16920.00	H	---					
18800.00	H	---					

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

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Operation Band	:EVDO BC1	Test Date	:2015-01-15
ARFCN	:CH 1175	Temp./Humi.	:22 deg_C / 61 RH
Fundamental Frequency	:1908.75 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
88.20	S	-51.03	-51.37	1.50	-1.17	-13.00	-38.03
155.13	S	-58.12	-57.38	0.66	-1.40	-13.00	-45.12
427.70	S	-63.45	-67.36	6.07	-2.15	-13.00	-50.45
552.83	S	-70.38	-73.90	6.02	-2.50	-13.00	-57.38
758.47	S	-64.01	-66.99	5.84	-2.87	-13.00	-51.01
835.10	S	-64.66	-67.51	5.91	-3.06	-13.00	-51.66
3817.50	H	-52.43	-54.73	9.20	-6.90	-13.00	-39.43
5726.25	H	-51.68	-53.64	10.50	-8.54	-13.00	-38.68
7635.00	H	---					
9543.75	H	---					
11452.50	H	---					
13361.25	H	---					
15270.00	H	---					
17178.75	H	---					
19087.50	H	---					

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

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:EVDO BC1	Test Date	:2015-01-15
ARFCN	:CH 1175	Temp./Humi.	:22 deg_C / 61 RH
Fundamental Frequency	:1908.75 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
34.85	S	-54.23	-42.41	-11.02	-0.80	-13.00	-41.23
204.60	S	-75.20	-79.63	5.96	-1.53	-13.00	-62.20
431.58	S	-70.95	-74.84	6.06	-2.17	-13.00	-57.95
517.91	S	-70.30	-73.98	6.08	-2.40	-13.00	-57.30
709.97	S	-67.86	-71.09	5.99	-2.76	-13.00	-54.86
918.52	S	-64.44	-66.78	5.63	-3.29	-13.00	-51.44
3817.50	H	-58.27	-60.56	9.20	-6.90	-13.00	-45.27
5726.25	H	-50.57	-52.52	10.50	-8.54	-13.00	-37.57
7635.00	H	---					
9543.75	H	---					
11452.50	H	---					
13361.25	H	---					
15270.00	H	---					
17178.75	H	---					
19087.50	H	---					

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

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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

Operation Band	:EVDO BC10	Test Date	:2015-01-15
ARFCN	:CH 476	Temp./Humi.	:23 deg_C / 62 RH
Fundamental Frequency	:817.90 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
89.17	S	-50.10	-48.49	-0.43	-1.18	-13.00	-37.10
153.19	S	-59.87	-56.75	-1.72	-1.39	-13.00	-46.87
390.84	S	-64.44	-66.41	4.03	-2.05	-13.00	-51.44
519.85	S	-71.25	-72.78	3.93	-2.41	-13.00	-58.25
752.65	S	-66.06	-66.89	3.68	-2.85	-13.00	-53.06
885.54	S	-65.96	-66.37	3.62	-3.22	-13.00	-52.96
1635.80	H	-35.74	-34.93	3.59	-4.40	-13.00	-22.74
2453.70	H	-48.19	-46.89	4.12	-5.43	-13.00	-35.19
3271.60	H	---					
4089.50	H	---					
4907.40	H	---					
5725.30	H	---					
6543.20	H	---					
7361.10	H	---					
8179.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor..

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Operation Band	:EVDO BC10	Test Date	:2015-01-15
ARFCN	:CH 476	Temp./Humi.	:23 deg_C / 62 RH
Fundamental Frequency	:817.90 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
33.88	S	-52.51	-38.31	-13.40	-0.80	-13.00	-39.51
172.59	S	-70.43	-68.89	-0.09	-1.44	-13.00	-57.43
450.01	S	-72.41	-74.03	3.84	-2.22	-13.00	-59.41
518.88	S	-72.22	-73.75	3.93	-2.40	-13.00	-59.22
753.62	S	-68.86	-69.69	3.69	-2.86	-13.00	-55.86
950.53	S	-66.42	-66.39	3.30	-3.34	-13.00	-53.42
1635.80	H	-55.39	-54.58	3.59	-4.40	-13.00	-42.39
2453.70	H	-61.97	-60.67	4.12	-5.43	-13.00	-48.97
3271.60	H	---					
4089.50	H	---					
4907.40	H	---					
5725.30	H	---					
6543.20	H	---					
7361.10	H	---					
8179.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:EVDO BC10	Test Date	:2015-01-15
ARFCN	:CH 580	Temp./Humi.	:23 deg_C / 62 RH
Fundamental Frequency	:820.50 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
89.17	S	-49.76	-48.15	-0.43	-1.18	-13.00	-36.76
157.07	S	-59.74	-57.07	-1.27	-1.40	-13.00	-46.74
400.54	S	-66.35	-68.29	4.02	-2.07	-13.00	-53.35
544.10	S	-71.74	-73.16	3.90	-2.48	-13.00	-58.74
753.62	S	-66.18	-67.01	3.69	-2.86	-13.00	-53.18
952.47	S	-65.39	-65.24	3.19	-3.34	-13.00	-52.39
1641.00	H	-36.90	-36.07	3.58	-4.41	-13.00	-23.90
2461.50	H	-54.42	-53.14	4.17	-5.44	-13.00	-41.42
3282.00	H	---					
4102.50	H	---					
4923.00	H	---					
5743.50	H	---					
6564.00	H	---					
7384.50	H	---					
8205.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Operation Band	:EVDO BC10	Test Date	:2015-01-15
ARFCN	:CH 580	Temp./Humi.	:23 deg_C / 62 RH
Fundamental Frequency	:820.50 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
33.88	S	-52.62	-38.42	-13.40	-0.80	-13.00	-39.62
228.85	S	-68.43	-70.59	3.78	-1.63	-13.00	-55.43
311.30	S	-71.89	-73.80	3.80	-1.90	-13.00	-58.89
540.22	S	-72.39	-73.82	3.90	-2.46	-13.00	-59.39
756.53	S	-68.87	-69.70	3.69	-2.86	-13.00	-55.87
911.73	S	-66.56	-66.79	3.51	-3.28	-13.00	-53.56
1641.00	H	-56.96	-56.13	3.58	-4.41	-13.00	-43.96
2461.50	H	-62.13	-60.85	4.17	-5.44	-13.00	-49.13
3282.00	H	---					
4102.50	H	---					
4923.00	H	---					
5743.50	H	---					
6564.00	H	---					
7384.50	H	---					
8205.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:EVDO BC10	Test Date	:2015-01-15
ARFCN	:CH 684	Temp./Humi.	:23 deg_C / 62 RH
Fundamental Frequency	:823.10 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
89.17	S	-51.66	-50.05	-0.43	-1.18	-13.00	-38.66
156.10	S	-60.35	-57.57	-1.38	-1.40	-13.00	-47.35
390.84	S	-63.40	-65.38	4.03	-2.05	-13.00	-50.40
541.19	S	-71.28	-72.71	3.90	-2.47	-13.00	-58.28
756.53	S	-66.16	-66.98	3.69	-2.86	-13.00	-53.16
895.24	S	-66.12	-66.45	3.58	-3.25	-13.00	-53.12
1646.20	H	-35.60	-34.75	3.56	-4.41	-13.00	-22.60
2469.30	H	-55.77	-54.49	4.17	-5.44	-13.00	-42.77
3292.40	H	---					
4115.50	H	---					
4938.60	H	---					
5761.70	H	---					
6584.80	H	---					
7407.90	H	---					
8231.00	H	---					

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:EVDO BC10	Test Date	:2015-01-15
ARFCN	:CH 684	Temp./Humi.	:23 deg_C / 62 RH
Fundamental Frequency	:823.10 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
33.88	S	-52.70	-38.50	-13.40	-0.80	-13.00	-39.70
204.60	S	-64.69	-66.97	3.81	-1.53	-13.00	-51.69
431.58	S	-71.24	-72.98	3.91	-2.17	-13.00	-58.24
552.83	S	-71.69	-73.06	3.87	-2.50	-13.00	-58.69
758.47	S	-68.34	-69.17	3.69	-2.87	-13.00	-55.34
886.51	S	-66.02	-66.42	3.62	-3.22	-13.00	-53.02
1646.20	H	-54.39	-53.54	3.56	-4.41	-13.00	-41.39
2469.30	H	-62.03	-60.75	4.17	-5.44	-13.00	-49.03
3292.40	H	---					
4115.50	H	---					
4938.60	H	---					
5761.70	H	---					
6584.80	H	---					
7407.90	H	---					
8231.00	H	---					

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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

Operation Band	:LTE B25	Test Date	:2015-01-14
ARFCN	:CH 26090 16QAM BW 10 RB1 49	Temp./Humi.	:23 deg_C / 62 RH
Fundamental Frequency	:1855 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Safe Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
40.67	S	-59.07	-48.36	-9.90	-0.81	-13.00	-46.07
76.56	S	-52.85	-50.24	-1.61	-1.00	-13.00	-39.85
253.10	S	-65.57	-69.29	5.44	-1.72	-13.00	-52.57
467.47	S	-69.76	-73.53	6.04	-2.27	-13.00	-56.76
692.51	S	-63.76	-67.07	6.04	-2.73	-13.00	-50.76
942.77	S	-63.69	-65.88	5.52	-3.33	-13.00	-50.69
3710.00	H	-46.43	-48.75	9.13	-6.81	-13.00	-33.43
5565.00	H	-48.55	-50.63	10.50	-8.41	-13.00	-35.55
7420.00	H	---					
9275.00	H	---					
11130.00	H	---					
12985.00	H	---					
14840.00	H	---					
16695.00	H	---					
18550.00	H	---					

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

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

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

"---" : denotes Noise Floor.

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Operation Band	:LTE B25	Test Date	:2015-01-14
ARFCN	: CH 26090 16QAM BW 10 RB1 49	Temp./Humi.	:23 deg_C / 62 RH
Fundamental Frequency	: 1855 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
40.67	S	-58.17	-47.46	-9.90	-0.81	-13.00	-45.17
76.56	S	-62.21	-59.59	-1.61	-1.00	-13.00	-49.21
259.89	S	-64.24	-67.83	5.33	-1.74	-13.00	-51.24
653.71	S	-67.55	-70.95	6.08	-2.69	-13.00	-54.55
714.82	S	-67.44	-70.64	5.97	-2.77	-13.00	-54.44
942.77	S	-63.92	-66.11	5.52	-3.33	-13.00	-50.92
3710.00	H	-52.94	-55.26	9.13	-6.81	-13.00	-39.94
5565.00	H	-52.49	-54.58	10.50	-8.41	-13.00	-39.49
7420.00	H	---					
9275.00	H	---					
11130.00	H	---					
12985.00	H	---					
14840.00	H	---					
16695.00	H	---					
18550.00	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.
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Operation Band	:LTE B25	Test Date	:2015-01-14
ARFCN	: CH 26365 16QAM BW 10 RB1 49	Temp./Humi.	:23 deg_C / 62 RH
Fundamental Frequency	:1882.5 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
40.67	S	-59.11	-48.40	-9.90	-0.81	-13.00	-46.11
77.53	S	-59.03	-56.73	-1.30	-1.00	-13.00	-46.03
255.04	S	-66.04	-69.72	5.41	-1.73	-13.00	-53.04
521.79	S	-69.20	-72.86	6.08	-2.41	-13.00	-56.20
763.32	S	-63.64	-66.61	5.85	-2.88	-13.00	-50.64
953.44	S	-62.80	-64.74	5.28	-3.34	-13.00	-49.80
3765.00	H	-46.29	-48.60	9.16	-6.86	-13.00	-33.29
5647.50	H	-50.65	-52.67	10.50	-8.48	-13.00	-37.65
7530.00	H	---					
9412.50	H	---					
11295.00	H	---					
13177.50	H	---					
15060.00	H	---					
16942.50	H	---					
18825.00	H	---					

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

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:LTE B25	Test Date	:2015-01-14
ARFCN	: CH 26365 16QAM BW 10 RB1 49	Temp./Humi.	:23 deg_C / 62 RH
Fundamental Frequency	:1882.5 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	: H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
40.67	S	-58.28	-47.57	-9.90	-0.81	-13.00	-45.28
77.53	S	-62.13	-59.83	-1.30	-1.00	-13.00	-49.13
262.80	S	-64.08	-67.69	5.37	-1.75	-13.00	-51.08
407.33	S	-69.54	-73.59	6.14	-2.09	-13.00	-56.54
643.04	S	-68.25	-71.63	6.05	-2.67	-13.00	-55.25
915.61	S	-63.45	-65.80	5.64	-3.28	-13.00	-50.45
3765.00	H	-52.98	-55.29	9.16	-6.86	-13.00	-39.98
5647.50	H	-52.81	-54.83	10.50	-8.48	-13.00	-39.81
7530.00	H	---					
9412.50	H	---					
11295.00	H	---					
13177.50	H	---					
15060.00	H	---					
16942.50	H	---					
18825.00	H	---					

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

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:LTE B25	Test Date	:2015-01-14
ARFCN	: CH 26640 16QAM BW 10 RB1 49	Temp./Humi.	:23 deg_C / 62 RH
Fundamental Frequency	:1910 MHz z	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	: H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
40.67	S	-59.16	-48.45	-9.90	-0.81	-13.00	-46.16
77.53	S	-59.00	-56.70	-1.30	-1.00	-13.00	-46.00
254.07	S	-65.72	-69.42	5.42	-1.72	-13.00	-52.72
472.32	S	-70.22	-73.99	6.05	-2.28	-13.00	-57.22
643.04	S	-64.54	-67.91	6.05	-2.67	-13.00	-51.54
952.47	S	-62.91	-64.90	5.34	-3.34	-13.00	-49.91
3820.00	H	-49.16	-51.46	9.20	-6.90	-13.00	-36.16
5730.00	H	-49.16	-51.11	10.50	-8.54	-13.00	-36.16
7640.00	H	---					
9550.00	H	---					
11460.00	H	---					
13370.00	H	---					
15280.00	H	---					
17190.00	H	---					
19100.00	H	---					

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

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Operation Band	:LTE B25	Test Date	:2015-01-14
ARFCN	: CH 26640 16QAM BW 10 RB1 49	Temp./Humi.	:23 deg_C / 62 RH
Fundamental Frequency	:1910 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
40.67	S	-57.92	-47.21	-9.90	-0.81	-13.00	-44.92
77.53	S	-62.51	-60.22	-1.30	-1.00	-13.00	-49.51
260.86	S	-64.16	-67.75	5.34	-1.75	-13.00	-51.16
461.65	S	-69.42	-73.19	6.02	-2.25	-13.00	-56.42
656.62	S	-66.94	-70.33	6.08	-2.69	-13.00	-53.94
919.49	S	-64.10	-66.44	5.62	-3.29	-13.00	-51.10
3820.00	H	-50.54	-52.84	9.20	-6.90	-13.00	-37.54
5730.00	H	-51.23	-53.19	10.50	-8.54	-13.00	-38.23
7640.00	H	---					
9550.00	H	---					
11460.00	H	---					
13370.00	H	---					
15280.00	H	---					
17190.00	H	---					
19100.00	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: 1.4MHz BW LTE-Band 26(The Worst Case)

Operation Band	:LTE B26	Test Date	:2015-01-15
ARFCN	: CH 26805 16QAM BW 3 RB1 0	Temp./Humi.	:22 deg_C / 61 RH
Fundamental Frequency	:825.5 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
40.67	S	-61.40	-48.54	-12.05	-0.81	-13.00	-48.40
78.50	S	-61.45	-57.31	-3.13	-1.00	-13.00	-48.45
259.89	S	-68.08	-69.52	3.18	-1.74	-13.00	-55.08
638.19	S	-66.29	-67.49	3.87	-2.67	-13.00	-53.29
780.78	S	-65.16	-65.97	3.72	-2.91	-13.00	-52.16
947.62	S	-64.53	-64.54	3.35	-3.33	-13.00	-51.53
1651.00	H	-61.84	-60.97	3.55	-4.42	-13.00	-48.84
2476.50	H	---					
3302.00	H	---					
4127.50	H	---					
4953.00	H	---					
5778.50	H	---					
6604.00	H	---					
7429.50	H	---					
8255.00	H	---					

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

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Operation Band	:LTE B26	Test Date	:2015-01-15
ARFCN	: CH 26805 16QAM BW 3 RB1 0	Temp./Humi.	:22 deg_C / 61 RH
Fundamental Frequency	:825.5 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
40.67	S	-60.19	-47.33	-12.05	-0.81	-13.00	-47.19
77.53	S	-64.93	-60.48	-3.45	-1.00	-13.00	-51.93
256.98	S	-66.55	-68.04	3.23	-1.73	-13.00	-53.55
464.56	S	-71.88	-73.50	3.88	-2.26	-13.00	-58.88
723.55	S	-69.00	-70.00	3.79	-2.79	-13.00	-56.00
905.91	S	-65.58	-65.85	3.54	-3.27	-13.00	-52.58
1651.00	H	-61.24	-60.37	3.55	-4.42	-13.00	-48.24
2476.50	H	---					
3302.00	H	---					
4127.50	H	---					
4953.00	H	---					
5778.50	H	---					
6604.00	H	---					
7429.50	H	---					
8255.00	H	---					

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

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Operation Band	:LTE B26	Test Date	:2015-01-15
ARFCN	: CH 26915 16QAM BW 3 RB1 0	Temp./Humi.	:22 deg_C / 61 RH
Fundamental Frequency	:836.5 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
40.67	S	-61.54	-48.68	-12.05	-0.81	-13.00	-48.54
77.53	S	-61.06	-56.61	-3.45	-1.00	-13.00	-48.06
252.13	S	-68.61	-70.20	3.30	-1.72	-13.00	-55.61
527.61	S	-71.75	-73.23	3.92	-2.43	-13.00	-58.75
715.79	S	-66.26	-67.30	3.82	-2.78	-13.00	-53.26
939.86	S	-65.48	-65.54	3.38	-3.32	-13.00	-52.48
1673.00	H	-62.81	-61.86	3.49	-4.45	-13.00	-49.81
2509.50	H	---					
3346.00	H	---					
4182.50	H	---					
5019.00	H	---					
5855.50	H	---					
6692.00	H	---					
7528.50	H	---					
8365.00	H	---					

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

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Operation Band	:LTE B26	Test Date	:2015-01-15
ARFCN	: CH 26915 16QAM BW 3 RB1 0	Temp./Humi.	:22 deg_C / 61 RH
Fundamental Frequency	:836.5 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
40.67	S	-60.49	-47.63	-12.05	-0.81	-13.00	-47.49
77.53	S	-64.68	-60.23	-3.45	-1.00	-13.00	-51.68
259.89	S	-67.37	-68.81	3.18	-1.74	-13.00	-54.37
461.65	S	-70.94	-72.56	3.87	-2.25	-13.00	-57.94
645.95	S	-70.09	-71.33	3.92	-2.68	-13.00	-57.09
891.36	S	-65.96	-66.33	3.60	-3.23	-13.00	-52.96
1673.00	H	-62.82	-61.86	3.49	-4.45	-13.00	-49.82
2509.50	H	---					
3346.00	H	---					
4182.50	H	---					
5019.00	H	---					
5855.50	H	---					
6692.00	H	---					
7528.50	H	---					
8365.00	H	---					

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

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Operation Band	:LTE B26	Test Date	:2015-01-15
ARFCN	: CH 27025 16QAM BW 3 RB1 0	Temp./Humi.	:22 deg_C / 61 RH
Fundamental Frequency	:847.5 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
40.67	S	-60.94	-48.08	-12.05	-0.81	-13.00	-47.94
77.53	S	-61.24	-56.79	-3.45	-1.00	-13.00	-48.24
254.07	S	-68.72	-70.27	3.27	-1.72	-13.00	-55.72
433.52	S	-70.84	-72.57	3.90	-2.17	-13.00	-57.84
692.51	S	-66.07	-67.22	3.89	-2.73	-13.00	-53.07
925.31	S	-65.82	-65.97	3.45	-3.30	-13.00	-52.82
1695.00	H	-60.47	-59.43	3.44	-4.48	-13.00	-47.47
2542.50	H	---					
3390.00	H	---					
4237.50	H	---					
5085.00	H	---					
5932.50	H	---					
6780.00	H	---					
7627.50	H	---					
8475.00	H	---					

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

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Operation Band	:LTE B26	Test Date	:2015-01-15
ARFCN	: CH 27025 16QAM BW 3 RB1 0	Temp./Humi.	:22 deg_C / 61 RH
Fundamental Frequency	:847.5 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
40.67	S	-59.36	-46.50	-12.05	-0.81	-13.00	-46.36
76.56	S	-64.80	-60.04	-3.76	-1.00	-13.00	-51.80
259.89	S	-66.96	-68.40	3.18	-1.74	-13.00	-53.96
426.73	S	-71.76	-73.54	3.92	-2.15	-13.00	-58.76
646.92	S	-69.35	-70.59	3.92	-2.68	-13.00	-56.35
942.77	S	-65.65	-65.69	3.37	-3.33	-13.00	-52.65
1695.00	H	-60.55	-59.51	3.44	-4.48	-13.00	-47.55
2542.50	H	---					
3390.00	H	---					
4237.50	H	---					
5085.00	H	---					
5932.50	H	---					
6780.00	H	---					
7627.50	H	---					
8475.00	H	---					

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

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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

Operation Band	:LTE B26	Test Date	:2015-01-14
ARFCN	: CH 26697 QPSK BW 1.4 RB1 0	Temp./Humi.	:22 deg_C / 61 RH
Fundamental Frequency	:814.7 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
34.85	S	-54.39	-40.42	-13.17	-0.80	-13.00	-41.39
88.20	S	-52.92	-51.10	-0.65	-1.17	-13.00	-39.92
168.71	S	-60.33	-58.33	-0.56	-1.43	-13.00	-47.33
224.00	S	-60.94	-62.97	3.64	-1.61	-13.00	-47.94
386.96	S	-66.33	-68.31	4.03	-2.05	-13.00	-53.33
645.95	S	-66.12	-67.36	3.92	-2.68	-13.00	-53.12
1629.40	H	-55.95	-55.16	3.60	-4.39	-13.00	-42.95
2444.10	H	---					
3258.80	H	---					
4073.50	H	---					
4888.20	H	---					
5702.90	H	---					
6517.60	H	---					
7332.30	H	---					
8147.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:LTE B26	Test Date	:2015-01-14
ARFCN	: CH 26697 QPSK BW 1.4 RB1 0	Temp./Humi.	:22 deg_C / 61 RH
Fundamental Frequency	:814.7 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
34.85	S	-51.53	-37.55	-13.17	-0.80	-13.00	-38.53
80.44	S	-61.97	-58.41	-2.55	-1.01	-13.00	-48.97
114.39	S	-65.22	-61.64	-2.31	-1.26	-13.00	-52.22
248.25	S	-61.68	-63.31	3.33	-1.70	-13.00	-48.68
515.00	S	-71.54	-73.09	3.94	-2.39	-13.00	-58.54
707.06	S	-69.88	-70.98	3.85	-2.76	-13.00	-56.88
1629.40	H	-59.98	-59.19	3.60	-4.39	-13.00	-46.98
2444.10	H	---					
3258.80	H	---					
4073.50	H	---					
4888.20	H	---					
5702.90	H	---					
6517.60	H	---					
7332.30	H	---					
8147.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Operation Band	:LTE B26 :CH 26740 QPSK BW 1.4	Test Date	:2015-01-14
ARFCN	RB1 0 BW 5 RB1 24	Temp./Humi.	:22 deg_C / 61 RH
Fundamental Frequency	: 819 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
34.85	S	-54.66	-40.69	-13.17	-0.80	-13.00	-41.66
88.20	S	-52.41	-50.60	-0.65	-1.17	-13.00	-39.41
168.71	S	-59.24	-57.24	-0.56	-1.43	-13.00	-46.24
224.00	S	-61.47	-63.51	3.64	-1.61	-13.00	-48.47
390.84	S	-67.77	-69.74	4.03	-2.05	-13.00	-54.77
716.76	S	-65.73	-66.77	3.81	-2.78	-13.00	-52.73
1638.00	H	-57.98	-57.16	3.58	-4.40	-13.00	-44.98
2457.00	H	---					
3276.00	H	---					
4095.00	H	---					
4914.00	H	---					
5733.00	H	---					
6552.00	H	---					
7371.00	H	---					
8190.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:LTE B26 :CH 26740 QPSK BW 1.4	Test Date	:2015-01-14
ARFCN	RB1 0 BW 5 RB1 24	Temp./Humi.	:22 deg_C / 61 RH
Fundamental Frequency	: 819 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
34.85	S	-51.46	-37.48	-13.17	-0.80	-13.00	-38.46
80.44	S	-62.02	-58.46	-2.55	-1.01	-13.00	-49.02
112.45	S	-65.88	-62.33	-2.30	-1.25	-13.00	-52.88
253.10	S	-62.15	-63.72	3.29	-1.72	-13.00	-49.15
701.24	S	-68.65	-69.79	3.88	-2.74	-13.00	-55.65
922.40	S	-66.46	-66.63	3.46	-3.30	-13.00	-53.46
1638.00	H	-63.15	-62.33	3.58	-4.40	-13.00	-50.15
2457.00	H	---					
3276.00	H	---					
4095.00	H	---					
4914.00	H	---					
5733.00	H	---					
6552.00	H	---					
7371.00	H	---					
8190.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:LTE B26	Test Date	:2015-01-14
ARFCN	:CH 26783 QPSK BW 1.4 RB1 0	Temp./Humi.	:22 deg_C / 61 RH
Fundamental Frequency	: 823.3 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	: H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
34.85	S	-54.32	-40.35	-13.17	-0.80	-13.00	-41.32
90.14	S	-51.39	-49.95	-0.25	-1.20	-13.00	-38.39
159.01	S	-60.29	-57.83	-1.05	-1.41	-13.00	-47.29
225.94	S	-61.28	-63.36	3.70	-1.62	-13.00	-48.28
648.86	S	-66.00	-67.25	3.93	-2.68	-13.00	-53.00
909.79	S	-66.86	-67.10	3.52	-3.28	-13.00	-53.86
1646.60	H	-57.31	-56.46	3.56	-4.41	-13.00	-44.31
2469.90	H	---					
3293.20	H	---					
4116.50	H	---					
4939.80	H	---					
5763.10	H	---					
6586.40	H	---					
7409.70	H	---					
8233.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Operation Band	:LTE B26	Test Date	:2015-01-14
ARFCN	:CH 26783 QPSK BW 1.4 RB1 0	Temp./Humi.	:22 deg_C / 61 RH
Fundamental Frequency	: 823.3 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
34.85	S	-51.44	-37.46	-13.17	-0.80	-13.00	-38.44
80.44	S	-61.56	-58.01	-2.55	-1.01	-13.00	-48.56
112.45	S	-66.44	-62.88	-2.30	-1.25	-13.00	-53.44
251.16	S	-62.30	-63.91	3.32	-1.71	-13.00	-49.30
479.11	S	-72.65	-74.27	3.91	-2.30	-13.00	-59.65
718.70	S	-70.23	-71.25	3.81	-2.78	-13.00	-57.23
1646.60	H	-61.30	-60.44	3.56	-4.41	-13.00	-48.30
2469.90	H	---					
3293.20	H	---					
4116.50	H	---					
4939.80	H	---					
5763.10	H	---					
6586.40	H	---					
7409.70	H	---					
8233.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

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

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

“---“ : denotes Noise Floor.

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

Operation Band	:LTE B41	Test Date	:2015-01-15
ARFCN	:CH 39725 QPSK BW 15 RB1 74	Temp./Humi.	:23 deg_C / 62 RH
Fundamental Frequency	:2503.5 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
40.67	S	-58.91	-48.20	-9.90	-0.81	-25.00	-33.91
76.56	S	-58.66	-56.04	-1.61	-1.00	-25.00	-33.66
95.96	S	-60.38	-60.61	1.44	-1.20	-25.00	-35.38
251.16	S	-65.10	-68.86	5.47	-1.71	-25.00	-40.10
599.39	S	-67.22	-70.40	5.80	-2.62	-25.00	-42.22
923.37	S	-63.26	-65.57	5.61	-3.30	-25.00	-38.26
5007.00	H	-37.48	-39.87	10.30	-7.92	-25.00	-12.48
7510.50	H	---					
10014.00	H	---					
12517.50	H	---					
15021.00	H	---					
17524.50	H	---					
20028.00	H	---					
22531.50	H	---					
25035.00	H	---					

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

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:LTE B41	Test Date	:2015-01-15
ARFCN	:CH 39725 QPSK BW 15 RB1 74	Temp./Humi.	:23 deg_C / 62 RH
Fundamental Frequency	:2503.5 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
40.67	S	-58.02	-47.30	-9.90	-0.81	-25.00	-33.02
76.56	S	-62.32	-59.70	-1.61	-1.00	-25.00	-37.32
256.01	S	-62.94	-66.60	5.39	-1.73	-25.00	-37.94
594.54	S	-68.98	-72.19	5.82	-2.61	-25.00	-43.98
717.73	S	-67.76	-70.94	5.96	-2.78	-25.00	-42.76
946.65	S	-63.89	-66.06	5.50	-3.33	-25.00	-38.89
5007.00	H	-43.17	-45.56	10.30	-7.92	-25.00	-18.17
7510.50	H	---					
10014.00	H	---					
12517.50	H	---					
15021.00	H	---					
17524.50	H	---					
20028.00	H	---					
22531.50	H	---					
25035.00	H	---					

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

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Operation Band	:LTE B41	Test Date	:2015-01-15
ARFCN	:CH 40620 QPSK BW 15 RB1 74	Temp./Humi.	:23 deg_C / 62 RH
Fundamental Frequency	:2593.0 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
40.67	S	-59.19	-48.48	-9.90	-0.81	-25.00	-34.19
77.53	S	-58.63	-56.34	-1.30	-1.00	-25.00	-33.63
217.21	S	-66.73	-70.91	5.76	-1.58	-25.00	-41.73
250.19	S	-65.58	-69.36	5.49	-1.71	-25.00	-40.58
644.01	S	-64.08	-67.46	6.05	-2.68	-25.00	-39.08
923.37	S	-63.47	-65.78	5.61	-3.30	-25.00	-38.47
5186.00	H	-37.85	-40.14	10.38	-8.08	-25.00	-12.85
7779.00	H	---					
10372.00	H	-35.58	-36.80	12.97	-11.75	-25.00	-10.58
12965.00	H	---					
15558.00	H	---					
18151.00	H	---					
20744.00	H	---					
23337.00	H	---					
25930.00	H	---					

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

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Operation Band	:LTE B41	Test Date	:2015-01-15
ARFCN	:CH 40620 QPSK BW 15 RB1 74	Temp./Humi.	:23 deg_C / 62 RH
Fundamental Frequency	:2593.0 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
40.67	S	-58.42	-47.71	-9.90	-0.81	-25.00	-33.42
74.62	S	-62.49	-59.23	-2.26	-1.00	-25.00	-37.49
255.04	S	-63.43	-67.11	5.41	-1.73	-25.00	-38.43
481.05	S	-69.29	-73.05	6.07	-2.30	-25.00	-44.29
709.00	S	-66.67	-69.90	5.99	-2.76	-25.00	-41.67
918.52	S	-63.73	-66.07	5.63	-3.29	-25.00	-38.73
5186.00	H	-42.74	-45.03	10.38	-8.08	-25.00	-17.74
7779.00	H	---					
10372.00	H	-41.64	-42.86	12.97	-11.75	-25.00	-16.64
12965.00	H	---					
15558.00	H	---					
18151.00	H	---					
20744.00	H	---					
23337.00	H	---					

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

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Operation Band	:LTE B41	Test Date	:2015-01-15
ARFCN	:CH 41515 QPSK BW 15 RB1 74	Temp./Humi.	:23 deg_C / 62 RH
Fundamental Frequency	:2682.5MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
40.67	S	-59.12	-48.41	-9.90	-0.81	-25.00	-34.12
77.53	S	-59.02	-56.73	-1.30	-1.00	-25.00	-34.02
253.10	S	-66.10	-69.82	5.44	-1.72	-25.00	-41.10
515.97	S	-69.42	-73.11	6.09	-2.40	-25.00	-44.42
644.98	S	-64.28	-67.67	6.06	-2.68	-25.00	-39.28
945.68	S	-63.14	-65.32	5.50	-3.33	-25.00	-38.14
5365.00	H	-41.29	-43.50	10.45	-8.24	-25.00	-16.29
8047.50	H	---					
10730.00	H	---					
13412.50	H	---					
16095.00	H	---					
18777.50	H	---					
21460.00	H	---					
24142.50	H	---					
26825.00	H	---					

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

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:LTE B41	Test Date	:2015-01-15
ARFCN	:CH 41515 QPSK BW 15 RB1 74	Temp./Humi.	:23 deg_C / 62 RH
Fundamental Frequency	:2682.5MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
40.67	S	-58.61	-47.89	-9.90	-0.81	-25.00	-33.61
73.65	S	-62.05	-58.46	-2.59	-1.00	-25.00	-37.05
256.98	S	-63.98	-67.63	5.38	-1.73	-25.00	-38.98
476.20	S	-69.84	-73.60	6.06	-2.29	-25.00	-44.84
668.26	S	-67.07	-70.43	6.07	-2.70	-25.00	-42.07
951.50	S	-63.83	-65.89	5.40	-3.34	-25.00	-38.83
5365.00	H	-45.33	-47.53	10.45	-8.24	-25.00	-20.33
8047.50	H	---					
10730.00	H	---					
13412.50	H	---					
16095.00	H	---					
18777.50	H	---					
21460.00	H	---					
24142.50	H	---					
26825.00	H	---					

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

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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11. FREQUENCY STABILITY V.S. TEMPERATURE MEASUREMENT

11.1. Standard Applicable:

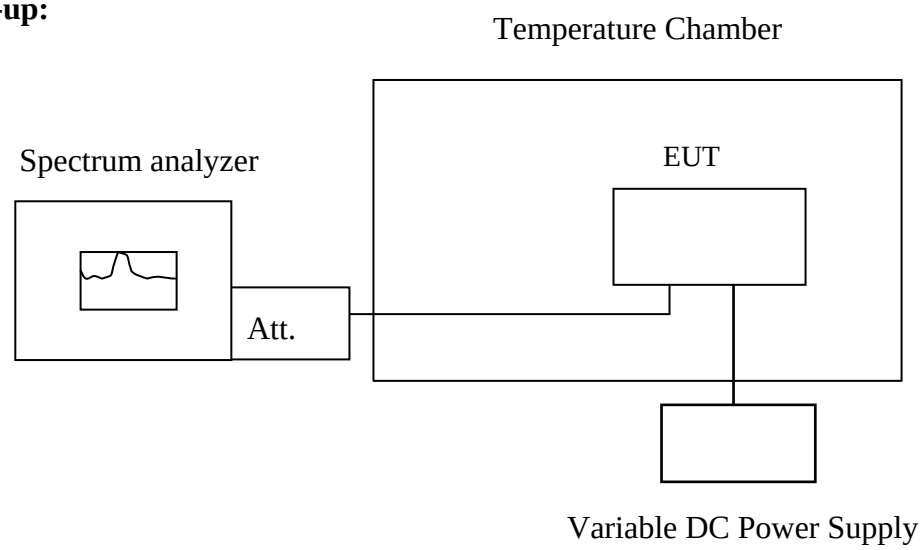
According to FCC §2.1055(a) (1)

Frequency Tolerance: +/-2.5ppm for 800MHz band

+/-2.5ppm for 1900MHz band

+/-2.5ppm for 2500MHz band

11.2. Test Set-up:



Note: Measurement setup for testing on Antenna connector

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11.3. Measurement Procedure:

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

11.4. Measurement Equipment Used:

Refer to section 2.4 in this report

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11.5. Measurement Result:

Reference Frequency: CDMA 2000 Cellular (BC0) 836.52 MHz				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
3.80	-30	836.520009	-79.00	2091
3.80	-20	836.519997	-67.00	2091
3.80	-10	836.519998	-68.00	2091
3.80	0	836.519995	-65.00	2091
3.80	10	836.520004	-74.00	2091
3.80	20	836.519930	0.00	2091
3.80	30	836.520000	-70.00	2091
3.80	40	836.519996	-66.00	2091
3.80	50	836.519991	-61.00	2091

Reference Frequency: CDMA 2000 PCS (BC1) Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
3.80	-30	1880.000001	4.00	4700
3.80	-20	1880.000004	1.00	4700
3.80	-10	1880.000007	-2.00	4700
3.80	0	1880.000003	2.00	4700
3.80	10	1880.000002	3.00	4700
3.80	20	1880.000005	0.00	4700
3.80	30	1880.000009	-4.00	4700
3.80	40	1880.000004	1.00	4700
3.80	50	1880.000001	4.00	4700

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Reference Frequency: CDMA 2000 (BC10) Mid Channel 820.5 MHz				
Limit: +/- 2.5 ppm =2091 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.8	-30	820.500001	1.00	2091
3.8	-20	820.500005	-3.00	2091
3.8	-10	820.499995	7.00	2091
3.8	0	820.500003	-1.00	2091
3.8	10	820.500004	-2.00	2091
3.8	20	820.500002	0.00	2091
3.8	30	820.500006	-4.00	2091
3.8	40	820.500002	0.00	2091
3.8	50	820.499997	5.00	2091

Reference Frequency: LTE B25 Mid Channel 1882.5 MHz 1.4M QPSK CH 26365				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.8	-30	1882.499995	-3.70	4706
3.8	-20	1882.500006	7.00	4706
3.8	-10	1882.500004	4.80	4706
3.8	0	1882.499997	-2.10	4706
3.8	10	1882.500004	5.10	4706
3.8	20	1882.499999	0.00	4706
3.8	30	1882.500002	3.20	4706
3.8	40	1882.500000	0.60	4706
3.8	50	1882.500004	5.30	4706

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Reference Frequency:	LTE B25 Mid Channel	1882.5	MHz	1.4M 16QAM CH 26365
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.8	-30	1882.499996	-14.20	4706
3.8	-20	1882.500006	-4.20	4706
3.8	-10	1882.500001	-9.30	4706
3.8	0	1882.500004	-6.60	4706
3.8	10	1882.500003	-7.90	4706
3.8	20	1882.500010	0.00	4706
3.8	30	1882.499999	-11.80	4706
3.8	40	1882.500002	-8.40	4706
3.8	50	1882.500003	-7.10	4706

Reference Frequency:	LTE B25 Mid Channel	1882.5	MHz	3M QPSK CH 26365
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.8	-30	1882.499996	4.20	4706
3.8	-20	1882.499998	5.90	4706
3.8	-10	1882.499998	6.40	4706
3.8	0	1882.500000	8.00	4706
3.8	10	1882.499997	5.10	4706
3.8	20	1882.499992	0.00	4706
3.8	30	1882.500001	9.00	4706
3.8	40	1882.499996	4.20	4706
3.8	50	1882.499996	3.70	4706

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Reference Frequency:	LTE B25 Mid Channel	1882.5	MHz	3M 16QAM CH 26365
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.8	-30	1882.499994	3.80	4706
3.8	-20	1882.499996	6.00	4706
3.8	-10	1882.500002	12.20	4706
3.8	0	1882.500001	10.90	4706
3.8	10	1882.500000	10.00	4706
3.8	20	1882.499990	0.00	4706
3.8	30	1882.499996	6.00	4706
3.8	40	1882.499998	7.80	4706
3.8	50	1882.499995	5.00	4706

Reference Frequency:	LTE B25 Mid Channel	1882.5	MHz	5M QPSK CH 26365
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.8	-30	1882.499994	-17.60	4706
3.8	-20	1882.499999	-12.30	4706
3.8	-10	1882.500005	-6.60	4706
3.8	0	1882.499999	-12.60	4706
3.8	10	1882.500004	-7.90	4706
3.8	20	1882.500012	0.00	4706
3.8	30	1882.499996	-15.40	4706
3.8	40	1882.499997	-14.10	4706
3.8	50	1882.499998	-13.50	4706

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Reference Frequency:	LTE B25 Mid Channel	1882.5	MHz	5M 16QAM CH 26365
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
3.8	-30	1882.499999	1.10	4706
3.8	-20	1882.500005	7.90	4706
3.8	-10	1882.500005	7.10	4706
3.8	0	1882.500000	2.70	4706
3.8	10	1882.500003	5.60	4706
3.8	20	1882.499998	0.00	4706
3.8	30	1882.500003	5.10	4706
3.8	40	1882.500009	11.30	4706
3.8	50	1882.499998	0.70	4706

Reference Frequency:	LTE B25 Mid Channel	1882.5	MHz	10M QPSK CH 26365
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
3.8	-30	1882.499994	-11.80	4706
3.8	-20	1882.500000	-6.40	4706
3.8	-10	1882.499992	-13.90	4706
3.8	0	1882.499994	-12.00	4706
3.8	10	1882.500005	-0.70	4706
3.8	20	1882.500006	0.00	4706
3.8	30	1882.500005	-1.30	4706
3.8	40	1882.499996	-10.40	4706
3.8	50	1882.499992	-13.60	4706

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Reference Frequency:	LTE B25 Mid Channel	1882.5	MHz	10M 16QAM CH 26365
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.8	-30	1882.499994	4.00	4706
3.8	-20	1882.500000	9.50	4706
3.8	-10	1882.500001	10.70	4706
3.8	0	1882.499997	7.00	4706
3.8	10	1882.500001	10.90	4706
3.8	20	1882.499990	0.00	4706
3.8	30	1882.499995	4.30	4706
3.8	40	1882.499992	1.50	4706
3.8	50	1882.499993	3.00	4706

Reference Frequency:	LTE B25 Mid Channel	1882.5	MHz	15M QPSK CH 26365
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.8	-30	1882.499993	0.40	4706
3.8	-20	1882.500003	10.30	4706
3.8	-10	1882.499999	6.60	4706
3.8	0	1882.500002	9.50	4706
3.8	10	1882.500003	10.50	4706
3.8	20	1882.499992	0.00	4706
3.8	30	1882.500005	12.40	4706
3.8	40	1882.499995	2.60	4706
3.8	50	1882.499991	-1.10	4706

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Reference Frequency:	LTE B25 Mid Channel	1882.5	MHz	15M 16QAM CH 26365
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.8	-30	1882.500007	7.30	4706
3.8	-20	1882.499998	-1.40	4706
3.8	-10	1882.500000	0.30	4706
3.8	0	1882.499998	-1.90	4706
3.8	10	1882.499998	-1.50	4706
3.8	20	1882.500000	0.00	4706
3.8	30	1882.499997	-2.50	4706
3.8	40	1882.499997	-2.40	4706
3.8	50	1882.500000	0.20	4706

Reference Frequency:	LTE B25 Mid Channel	1882.5	MHz	20M QPSK CH 26365
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.8	-30	1882.499995	-6.00	4706
3.8	-20	1882.500007	6.20	4706
3.8	-10	1882.500010	9.40	4706
3.8	0	1882.500001	0.70	4706
3.8	10	1882.500008	7.70	4706
3.8	20	1882.500001	0.00	4706
3.8	30	1882.500009	8.00	4706
3.8	40	1882.500003	2.00	4706
3.8	50	1882.500006	5.40	4706

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Reference Frequency:	LTE B25 Mid Channel	1882.5	MHz	20M 16QAM CH 26365
Limit: +/- 2.5 ppm = Hz				
Power Supply Vdc	Environment Temperature (°C)	Frequency (MHz)	Delta (Hz)	Limit (Hz)
3.8	-30	1882.499999	-11.90	4706
3.8	-20	1882.500008	-3.30	4706
3.8	-10	1882.500004	-6.90	4706
3.8	0	1882.499998	-13.30	4706
3.8	10	1882.500004	-6.90	4706
3.8	20	1882.500011	0.00	4706
3.8	30	1882.499994	-17.00	4706
3.8	40	1882.500006	-4.60	4706
3.8	50	1882.500004	-6.70	4706

Reference Frequency:	LTE B26 Mid Channel	836.5	MHz	1.4M QPSK CH 26915
Limit: +/- 2.5 ppm = Hz				
Power Supply Vdc	Environment Temperature (°C)	Frequency (MHz)	Delta (Hz)	Limit (Hz)
3.8	-30	836.499996	0.40	2091
3.8	-20	836.500008	13.20	2091
3.8	-10	836.500001	6.00	2091
3.8	0	836.500003	7.90	2091
3.8	10	836.499998	2.30	2091
3.8	20	836.499995	0.00	2091
3.8	30	836.500001	6.00	2091
3.8	40	836.500001	5.90	2091
3.8	50	836.499994	-1.20	2091

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Reference Frequency:	LTE B26 Mid Channel	836.5	MHz	1.4M 16QAM CH 26915
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.8	-30	836.499998	-1.10	2091
3.8	-20	836.500003	4.50	2091
3.8	-10	836.499995	-3.50	2091
3.8	0	836.500006	7.00	2091
3.8	10	836.500008	9.30	2091
3.8	20	836.499999	0.00	2091
3.8	30	836.499997	-2.20	2091
3.8	40	836.500001	1.80	2091
3.8	50	836.500005	5.70	2091

Reference Frequency:	LTE B26 Mid Channel	836.5	MHz	3M QPSK CH 26915
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.8	-30	836.499999	-6.40	2091
3.8	-20	836.500011	5.00	2091
3.8	-10	836.500000	-5.70	2091
3.8	0	836.500001	-5.20	2091
3.8	10	836.500001	-5.00	2091
3.8	20	836.500006	0.00	2091
3.8	30	836.500004	-2.10	2091
3.8	40	836.499995	-10.60	2091
3.8	50	836.500001	-4.70	2091

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Reference Frequency:	LTE B26 Mid Channel	836.5	MHz	3M 16QAM CH 26915
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.8	-30	836.499998	1.60	2091
3.8	-20	836.500002	5.50	2091
3.8	-10	836.500003	6.60	2091
3.8	0	836.500004	7.60	2091
3.8	10	836.500000	3.60	2091
3.8	20	836.499997	0.00	2091
3.8	30	836.500003	6.40	2091
3.8	40	836.500003	6.40	2091
3.8	50	836.500007	10.60	2091

Reference Frequency:	LTE B26 Mid Channel	836.5	MHz	5M QPSK CH 26915
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.8	-30	836.500001	-10.60	2091
3.8	-20	836.499992	-19.90	2091
3.8	-10	836.499997	-14.30	2091
3.8	0	836.500000	-11.80	2091
3.8	10	836.499994	-17.50	2091
3.8	20	836.500012	0.00	2091
3.8	30	836.499999	-12.30	2091
3.8	40	836.499994	-17.90	2091
3.8	50	836.500001	-10.40	2091

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Reference Frequency:	LTE B26 Mid Channel	836.5	MHz	5M 16QAM CH 26915
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.8	-30	836.500001	-4.30	2091
3.8	-20	836.499997	-8.40	2091
3.8	-10	836.499999	-6.80	2091
3.8	0	836.499999	-6.80	2091
3.8	10	836.499992	-13.20	2091
3.8	20	836.500006	0.00	2091
3.8	30	836.499993	-12.90	2091
3.8	40	836.499994	-11.20	2091
3.8	50	836.500003	-2.20	2091

Reference Frequency:	LTE B26 Mid Channel	836.5	MHz	10M QPSK CH 26915
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.8	-30	836.500001	11.80	2091
3.8	-20	836.499995	5.90	2091
3.8	-10	836.499994	5.30	2091
3.8	0	836.500001	11.80	2091
3.8	10	836.500005	15.40	2091
3.8	20	836.499989	0.00	2091
3.8	30	836.500004	15.20	2091
3.8	40	836.499993	4.30	2091
3.8	50	836.499997	7.90	2091

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Reference Frequency:	LTE B26 Mid Channel	836.5	MHz	10M 16QAM CH 26915
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.8	-30	836.500000	4.20	2091
3.8	-20	836.500003	7.60	2091
3.8	-10	836.500006	10.60	2091
3.8	0	836.499996	0.40	2091
3.8	10	836.500002	6.20	2091
3.8	20	836.499995	0.00	2091
3.8	30	836.500007	11.30	2091
3.8	40	836.499997	2.00	2091
3.8	50	836.499992	-3.50	2091

Reference Frequency:	LTE B26 Mid Channel	819.0	MHz	1.4M QPSK CH 26740
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.8	-30	818.999994	2.10	2048
3.8	-20	819.000002	9.60	2048
3.8	-10	818.999999	7.00	2048
3.8	0	818.999997	4.40	2048
3.8	10	819.000005	12.80	2048
3.8	20	818.999992	0.00	2048
3.8	30	818.999996	3.60	2048
3.8	40	818.999997	4.50	2048
3.8	50	819.000002	10.00	2048

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Reference Frequency:	LTE B26 Mid Channel	819.0	MHz	1.4M 16QAM CH 26740
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.8	-30	818.999994	-12.40	2048
3.8	-20	818.999997	-9.00	2048
3.8	-10	819.000000	-6.10	2048
3.8	0	818.999999	-7.40	2048
3.8	10	818.999995	-11.10	2048
3.8	20	819.000006	0.00	2048
3.8	30	818.999994	-11.60	2048
3.8	40	819.000004	-2.20	2048
3.8	50	818.999997	-9.40	2048

Reference Frequency:	LTE B26 Mid Channel	819.0	MHz	3M QPSK CH 26740
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.8	-30	818.999995	-1.20	2048
3.8	-20	819.000000	3.70	2048
3.8	-10	819.000007	10.90	2048
3.8	0	818.999996	-0.50	2048
3.8	10	819.000007	11.00	2048
3.8	20	818.999996	0.00	2048
3.8	30	819.000005	8.50	2048
3.8	40	818.999992	-4.60	2048
3.8	50	818.999996	0.00	2048

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Reference Frequency:	LTE B26 Mid Channel	819.0	MHz	3M 16QAM CH 26740
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.8	-30	818.999994	-0.30	2048
3.8	-20	818.999994	-0.40	2048
3.8	-10	818.999998	3.50	2048
3.8	0	818.999997	2.70	2048
3.8	10	819.000005	10.30	2048
3.8	20	818.999995	0.00	2048
3.8	30	818.999997	2.20	2048
3.8	40	819.000008	13.10	2048
3.8	50	819.000000	5.00	2048

Reference Frequency:	LTE B26 Mid Channel	819.0	MHz	5M QPSK CH 26740
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.8	-30	818.999999	5.20	2048
3.8	-20	819.000004	10.50	2048
3.8	-10	819.000001	6.60	2048
3.8	0	818.999997	3.10	2048
3.8	10	819.000000	5.90	2048
3.8	20	818.999994	0.00	2048
3.8	30	818.999997	3.20	2048
3.8	40	819.000010	16.40	2048
3.8	50	818.999999	5.30	2048

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Reference Frequency:	LTE B26 Mid Channel	819.0	MHz	5M 16QAM CH 26740
Limit: +/- 2.5 ppm =	Hz			
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
3.8	-30	818.999997	5.50	2048
3.8	-20	819.000002	10.70	2048
3.8	-10	819.000010	17.90	2048
3.8	0	818.999998	6.70	2048
3.8	10	819.000002	10.30	2048
3.8	20	818.999992	0.00	2048
3.8	30	818.999995	3.50	2048
3.8	40	819.000004	12.20	2048
3.8	50	819.000009	17.40	2048

Reference Frequency:	LTE B26 Mid Channel	819.0	MHz	10M QPSK CH 26740
Limit: +/- 2.5 ppm =	Hz			
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
3.8	-30	819.000000	-4.40	2048
3.8	-20	818.999995	-9.10	2048
3.8	-10	819.000000	-4.10	2048
3.8	0	819.000008	3.00	2048
3.8	10	819.000004	-0.60	2048
3.8	20	819.000005	0.00	2048
3.8	30	819.000005	0.80	2048
3.8	40	819.000002	-3.00	2048
3.8	50	818.999999	-5.60	2048

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Reference Frequency:	LTE B26 Mid Channel	819.0	MHz	10M 16QAM CH 26740
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.8	-30	818.999999	-5.90	2048
3.8	-20	818.999999	-6.20	2048
3.8	-10	819.000000	-4.90	2048
3.8	0	819.000004	-1.00	2048
3.8	10	819.000004	-0.50	2048
3.8	20	819.000005	0.00	2048
3.8	30	818.999995	-10.10	2048
3.8	40	819.000002	-2.40	2048
3.8	50	819.000004	-0.40	2048

Reference Frequency:	LTE Band 41 Mid Channel	2593.0	MHz	5M QPSK CH 40620
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.8	-30	2592.999990	-17.40	6483
3.8	-20	2592.999996	-11.00	6483
3.8	-10	2593.000004	-3.80	6483
3.8	0	2593.000001	-6.20	6483
3.8	10	2593.000007	-0.70	6483
3.8	20	2593.000007	0.00	6483
3.8	30	2593.000004	-3.60	6483
3.8	40	2593.000009	2.10	6483
3.8	50	2592.999995	-12.00	6483

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Reference Frequency:	LTE Band 41 Mid Channel 2593.0 MHz 5M 16QAM CH 40620			
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.8	-30	2592.999991	-17.30	6483
3.8	-20	2592.999999	-8.80	6483
3.8	-10	2593.000002	-5.50	6483
3.8	0	2592.999997	-11.40	6483
3.8	10	2592.999999	-9.40	6483
3.8	20	2593.000008	0.00	6483
3.8	30	2593.000008	-0.40	6483
3.8	40	2593.000002	-6.40	6483
3.8	50	2592.999992	-16.40	6483

Reference Frequency:	LTE Band 41 Mid Channel 2593.0 MHz 10M QPSK CH 40620			
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.8	-30	2592.999995	-13.70	6483
3.8	-20	2592.999998	-10.60	6483
3.8	-10	2592.999995	-13.60	6483
3.8	0	2593.000003	-5.00	6483
3.8	10	2593.000004	-4.40	6483
3.8	20	2593.000008	0.00	6483
3.8	30	2592.999995	-13.30	6483
3.8	40	2593.000005	-3.30	6483
3.8	50	2592.999999	-9.50	6483

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Reference Frequency:	LTE Band 41 Mid Channel 2593.0 MHz 10M 16QAM CH 40620			
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.8	-30	2592.999992	-14.10	6483
3.8	-20	2593.000002	-4.70	6483
3.8	-10	2593.000005	-1.40	6483
3.8	0	2593.000001	-5.70	6483
3.8	10	2593.000006	-0.40	6483
3.8	20	2593.000006	0.00	6483
3.8	30	2593.000003	-3.00	6483
3.8	40	2593.000005	-1.80	6483
3.8	50	2592.999996	-10.90	6483

Reference Frequency:	LTE Band 41 Mid Channel 2593.0 MHz 15M QPSK CH 40620			
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.8	-30	2592.999988	-19.90	6483
3.8	-20	2593.000005	-2.60	6483
3.8	-10	2593.000006	-2.10	6483
3.8	0	2593.000004	-3.80	6483
3.8	10	2593.000008	0.40	6483
3.8	20	2593.000008	0.00	6483
3.8	30	2592.999998	-9.20	6483
3.8	40	2593.000008	0.40	6483
3.8	50	2592.999990	-18.00	6483

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Reference Frequency:	LTE Band 41 Mid Channel 2593.0 MHz 15M 16QAM CH 40620			
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.8	-30	2592.999987	-15.00	6483
3.8	-20	2593.000003	1.50	6483
3.8	-10	2592.999998	-4.20	6483
3.8	0	2593.000003	0.90	6483
3.8	10	2593.000001	-1.20	6483
3.8	20	2593.000002	0.00	6483
3.8	30	2593.000001	-1.20	6483
3.8	40	2593.000000	-1.30	6483
3.8	50	2592.999993	-9.10	6483

Reference Frequency:	LTE Band 41 Mid Channel 2593.0 MHz 20M QPSK CH 40620			
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.8	-30	2592.999984	-7.40	6483
3.8	-20	2593.000006	13.70	6483
3.8	-10	2592.999992	0.60	6483
3.8	0	2593.000001	9.40	6483
3.8	10	2593.000009	16.80	6483
3.8	20	2592.999992	0.00	6483
3.8	30	2592.999997	4.80	6483
3.8	40	2592.999995	3.00	6483
3.8	50	2592.999992	0.60	6483

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Reference Frequency:	LTE Band 41 Mid Channel 2593.0 MHz 20M 16QAM CH 40620			
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.8	-30	2592.999990	-5.10	6483
3.8	-20	2593.000004	9.10	6483
3.8	-10	2593.000003	8.30	6483
3.8	0	2593.000009	14.10	6483
3.8	10	2593.000001	6.00	6483
3.8	20	2592.999995	0.00	6483
3.8	30	2592.999996	1.00	6483
3.8	40	2593.000010	15.60	6483
3.8	50	2592.999995	0.60	6483

Note: The battery is rated 3.8V dc.

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12. FREQUENCY STABILITY V.S. VOLTAGE MEASUREMENT

12.1. Standard Applicable:

According to FCC §2.1055(d) (2)

Frequency Tolerance: +/-2.5ppm for 800MHz band

+/-2.5ppm for 1900MHz band

+/-2.5ppm for 2500MHz band

12.2. Test Set-up:

Refer to section 11.2 in this report

12.3. Measurement Procedure:

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

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

12.4. Measurement Equipment Used:

Refer to section 2.4 in this report

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12.5. Measurement Result:

Reference Frequency: CDMA 2000 Cellualr (BC0) Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply Vdc	Environment Temperature (℃)	Frequency (MHz)	Delta (Hz)	Limit (Hz)
4.37	25.00	836.520000	-2.00	2091.00
3.80	25.00	836.519998	0.00	2091.00
3.23	25.00	836.519996	2.00	2091.00
3.20 (Endpoint)	25.00	836.520000	-2.00	2091.00

Reference Frequency: CDMA 2000 PCS (BC1) Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply Vdc	Environment Temperature (℃)	Frequency (MHz)	Delta (Hz)	Limit (Hz)
4.37	25	1880.000001	2.00	4700
3.80	25	1880.000003	0.00	4700
3.23	25	1880.000006	-3.00	4700
3.20 (Endpoint)	25	1880.000001	2.00	4700

Reference Frequency: CDMA 2000 Cellualr (BC10) Mid Channel 820.5 MHz				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply Vdc	Environment Temperature (℃)	Frequency (MHz)	Delta (Hz)	Limit (Hz)
4.37	25.00	820.500000	5.00	2091.00
3.80	25.00	820.500005	0.00	2091.00
3.23	25.00	820.499994	11.00	2091.00
3.20 (Endpoint)	25.00	820.499993	12.00	2091.00

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Reference Frequency:	LTE Band 25 Mid Channel	1882.5	MHz	1.4M QPSK CH 26365
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
4.37	25	1882.500003	6.30	4706
3.8	25	1882.499996	0.00	4706
3.23	25	1882.500006	9.60	4706
3.2 (End Point)	25	1882.500005	8.90	4706

Reference Frequency:	LTE Band 25 Mid Channel	1882.5	MHz	1.4M 16QAM CH 26365
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
4.37	25	1882.499997	-11.10	4706
3.8	25	1882.500008	0.00	4706
3.23	25	1882.500007	-0.40	4706
3.2 (End Point)	25	1882.500002	-5.40	4706

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Reference Frequency:	LTE Band 25 Mid Channel	1882.5	MHz	3M QPSK CH 26365
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
4.37	25	1882.500002	13.60	4706
3.8	25	1882.499988	0.00	4706
3.23	25	1882.499988	-0.50	4706
3.2 (End Point)	25	1882.499981	-7.70	4706

Reference Frequency:	LTE Band 25 Mid Channel	1882.5	MHz	3M 16QAM CH 26365
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
4.37	25	1882.499992	4.40	4706
3.8	25	1882.499987	0.00	4706
3.23	25	1882.499986	-0.90	4706
3.2 (End Point)	25	1882.499991	4.20	4706

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Reference Frequency:	LTE Band 25 Mid Channel	1882.5	MHz	5M QPSK CH 26365
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
4.37	25	1882.500011	0.60	4706
3.8	25	1882.500011	0.00	4706
3.23	25	1882.500016	4.90	4706
3.2 (End Point)	25	1882.500016	4.80	4706

Reference Frequency:	LTE Band 25 Mid Channel	1882.5	MHz	5M 16QAM CH 26365
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
4.37	25	1882.500005	8.90	4706
3.8	25	1882.499996	0.00	4706
3.23	25	1882.499995	-1.30	4706
3.2 (End Point)	25	1882.499993	-3.50	4706

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Reference Frequency:	LTE Band 25 Mid Channel	1882.5	MHz	10M QPSK CH 26365
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
4.37	25	1882.500010	3.20	4706
3.8	25	1882.500006	0.00	4706
3.23	25	1882.500014	7.10	4706
3.2 (End Point)	25	1882.500021	14.40	4706

Reference Frequency:	LTE Band 25 Mid Channel	1882.5	MHz	10M 16QAM CH 26365
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
4.37	25	1882.499996	2.40	4706
3.8	25	1882.499994	0.00	4706
3.23	25	1882.500000	6.20	4706
3.2 (End Point)	25	1882.500004	10.20	4706

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Reference Frequency:	LTE Band 25 Mid Channel	1882.5	MHz	15M QPSK CH 26365
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
4.37	25	1882.500007	12.00	4706
3.8	25	1882.499995	0.00	4706
3.23	25	1882.500003	8.60	4706
3.2 (End Point)	25	1882.500004	9.40	4706

Reference Frequency:	LTE Band 25 Mid Channel	1882.5	MHz	15M 16QAM CH 26365
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
4.37	25	1882.500004	10.00	4706
3.8	25	1882.499994	0.00	4706
3.23	25	1882.499998	4.60	4706
3.2 (End Point)	25	1882.499995	1.40	4706

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Reference Frequency:	LTE Band 25 Mid Channel	1882.5	MHz	20M QPSK CH 26365
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
4.37	25	1882.500008	7.00	4706
3.8	25	1882.500001	0.00	4706
3.23	25	1882.499991	-10.10	4706
3.2 (End Point)	25	1882.499992	-8.60	4706

Reference Frequency:	LTE Band 25 Mid Channel	1882.5	MHz	20M 16QAM CH 26365
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
4.37	25	1882.500008	-3.60	4706
3.8	25	1882.500011	0.00	4706
3.23	25	1882.499997	-14.20	4706
3.2 (End Point)	25	1882.499997	-14.00	4706

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Reference Frequency:	LTE Band 26 Mid Channel	836.5	MHz	1.4M QPSK CH 26915
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
4.37	25	836.500005	9.50	2091
3.8	25	836.499995	0.00	2091
3.23	25	836.499999	4.10	2091
3.2 (End Point)	25	836.499993	-2.20	2091

Reference Frequency:	LTE Band 26 Mid Channel	836.5	MHz	1.4M 16QAM CH 26915
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
4.37	25	836.499995	-5.10	2091
3.8	25	836.500000	0.00	2091
3.23	25	836.500009	9.30	2091
3.2 (End Point)	25	836.500016	16.30	2091

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Reference Frequency:	LTE Band 26 Mid Channel	836.5	MHz	3M QPSK CH 26915
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
4.37	25	836.500006	1.00	2091
3.8	25	836.500005	0.00	2091
3.23	25	836.499997	-7.80	2091
3.2 (End Point)	25	836.499994	-10.70	2091

Reference Frequency:	LTE Band 26 Mid Channel	836.5	MHz	3M 16QAM CH 26915
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
4.37	25	836.500005	9.00	2091
3.8	25	836.499996	0.00	2091
3.23	25	836.499994	-2.10	2091
3.2 (End Point)	25	836.499982	-14.10	2091

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Reference Frequency:	LTE Band 26 Mid Channel	836.5	MHz	5M QPSK CH 26915
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
4.37	25	836.500005	-6.80	2091
3.8	25	836.500012	0.00	2091
3.23	25	836.500003	-9.40	2091
3.2 (End Point)	25	836.500008	-3.90	2091

Reference Frequency:	LTE Band 26 Mid Channel	836.5	MHz	5M 16QAM CH 26915
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
4.37	25	836.500001	-4.90	2091
3.8	25	836.500006	0.00	2091
3.23	25	836.500000	-5.60	2091
3.2 (End Point)	25	836.500000	-5.70	2091

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Reference Frequency:	LTE Band 26 Mid Channel	836.5	MHz	10M QPSK CH 26915
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
4.37	25	836.499993	2.40	2091
3.8	25	836.499990	0.00	2091
3.23	25	836.500001	11.10	2091
3.2 (End Point)	25	836.499988	-2.10	2091

Reference Frequency:	LTE Band 26 Mid Channel	836.5	MHz	10M 16QAM CH 26915
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
4.37	25	836.500001	3.80	2091
3.8	25	836.499997	0.00	2091
3.23	25	836.500010	13.40	2091
3.2 (End Point)	25	836.500009	11.70	2091

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Reference Frequency:	LTE Band 26 Mid Channel	819.0	MHz	1.4M QPSK CH 26740
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
4.37	25	819.000008	15.20	2048
3.8	25	818.999993	0.00	2048
3.23	25	818.999998	5.00	2048
3.2 (End Point)	25	819.000003	10.80	2048

Reference Frequency:	LTE Band 26 Mid Channel	819.0	MHz	1.4M 16QAM CH 26740
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
4.37	25	818.999995	-10.90	2048
3.8	25	819.000005	0.00	2048
3.23	25	818.999995	-10.30	2048
3.2 (End Point)	25	818.999988	-17.70	2048

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Reference Frequency:	LTE Band 26 Mid Channel	819.0	MHz	3M QPSK CH 26740
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
4.37	25	819.000002	4.70	2048
3.8	25	818.999997	0.00	2048
3.23	25	818.999992	-4.60	2048
3.2 (End Point)	25	818.999987	-9.90	2048

Reference Frequency:	LTE Band 26 Mid Channel	819.0	MHz	3M 16QAM CH 26740
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
4.37	25	819.000006	10.80	2048
3.8	25	818.999995	0.00	2048
3.23	25	818.999993	-2.70	2048
3.2 (End Point)	25	818.999987	-8.10	2048

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Reference Frequency:	LTE Band 26 Mid Channel	819.0	MHz	5M QPSK CH 26740
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
4.37	25	819.000003	10.50	2048
3.8	25	818.999992	0.00	2048
3.23	25	818.999988	-4.30	2048
3.2 (End Point)	25	818.999992	0.20	2048

Reference Frequency:	LTE Band 26 Mid Channel	819.0	MHz	5M 16QAM CH 26740
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
4.37	25	818.999993	2.90	2048
3.8	25	818.999990	0.00	2048
3.23	25	818.999984	-5.20	2048
3.2 (End Point)	25	818.999980	-9.50	2048

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Reference Frequency:	LTE Band 26 Mid Channel	819.0	MHz	10M QPSK CH 26740
Limit: +/- 2.5 ppm = Hz				
Power Supply Vdc	Environment Temperature (°C)	Frequency (MHz)	Delta (Hz)	Power Supply Vdc
4.37	25	819.000005	3.60	4.37
3.8	25	819.000001	0.00	3.8
3.23	25	818.999998	-3.60	3.23
3.2 (End Point)	25	818.999996	-5.10	3.2 (End Point)

Reference Frequency:	LTE Band 26 Mid Channel	819.0	MHz	10M 16QAM CH 26740
Limit: +/- 2.5 ppm = Hz				
Power Supply Vdc	Environment Temperature (°C)	Frequency (MHz)	Delta (Hz)	Limit (Hz)
4.37	25	818.999989	-11.70	2048
3.8	25	819.000001	0.00	2048
3.23	25	819.000006	4.70	2048
3.2 (End Point)	25	819.000004	2.60	2048

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Reference Frequency:	LTE Band 41 Mid Channel	2593.0	MHz	5M QPSK CH 40620
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
4.37	25	2593.000002	-3.20	6483
3.8	25	2593.000005	0.00	6483
3.23	25	2592.999995	-9.30	6483
3.2 (End Point)	25	2592.999987	-18.20	6483

Reference Frequency:	LTE Band 41 Mid Channel	2593.0	MHz	5M 16QAM CH 40620
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
4.37	25	2593.000005	-0.50	6483
3.8	25	2593.000006	0.00	6483
3.23	25	2593.000017	10.60	6483
3.2 (End Point)	25	2593.000011	5.10	6483

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Reference Frequency:	LTE Band 41 Mid Channel	2593.0	MHz	10M QPSK CH 40620
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
4.37	25	2593.000004	-2.80	6483
3.8	25	2593.000007	0.00	6483
3.23	25	2593.000005	-1.50	6483
3.2 (End Point)	25	2593.000007	0.50	6483

Reference Frequency:	LTE Band 41 Mid Channel	2593.0	MHz	10M 16QAM CH 40620
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
4.37	25	2592.999995	-8.30	6483
3.8	25	2593.000003	0.00	6483
3.23	25	2592.999993	-10.00	6483
3.2 (End Point)	25	2592.999996	-7.40	6483

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Reference Frequency:	LTE Band 41 Mid Channel	2593.0	MHz	15M QPSK CH 40620
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
4.37	25	2593.000001	-4.70	6483
3.8	25	2593.000005	0.00	6483
3.23	25	2593.000002	-3.00	6483
3.2 (End Point)	25	2592.999993	-12.40	6483

Reference Frequency:	LTE Band 41 Mid Channel	2593.0	MHz	15M 16QAM CH 40620
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
4.37	25	2593.000004	4.40	6483
3.8	25	2593.000000	0.00	6483
3.23	25	2592.999992	-7.30	6483
3.2 (End Point)	25	2592.999990	-9.50	6483

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t (886-2) 2299-3279 f (886-2) 2298-0488 www.tw.sgs.com
Member of SGS Group

Reference Frequency:	LTE Band 41 Mid Channel	2593.0	MHz	20M QPSK CH 40620
Limit: +/- 2.5 ppm = Hz				
Power Supply Vdc	Environment Temperature (°C)	Frequency (MHz)	Delta (Hz)	Power Supply Vdc
4.37	25	2593.000004	14.10	6483
3.8	25	2592.999990	0.00	6483
3.23	25	2592.999989	-1.10	6483
3.2 (End Point)	25	2592.999985	-4.90	6483

Reference Frequency:	LTE Band 41 Mid Channel	2593.0	MHz	20M 16QAM CH 40620
Limit: +/- 2.5 ppm = Hz				
Power Supply Vdc	Environment Temperature (°C)	Frequency (MHz)	Delta (Hz)	Limit (Hz)
4.37	25	2593.000005	11.70	6483
3.8	25	2592.999993	0.00	6483
3.23	25	2592.999991	-2.20	6483
3.2 (End Point)	25	2592.999991	-2.60	6483

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13. PEAK TO AVERAGE RATIO

13.1. Standard Applicable:

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

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

Refer to section 2.4 in this report

13.3. Measurement Procedure:

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

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

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

13.4. Measurement Equipment Used:

Refer to section 2.4 in this report

13.5. Measurement Result:

Refer to next page for tabular, and plot results

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13.5.2 Measurement Results:

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

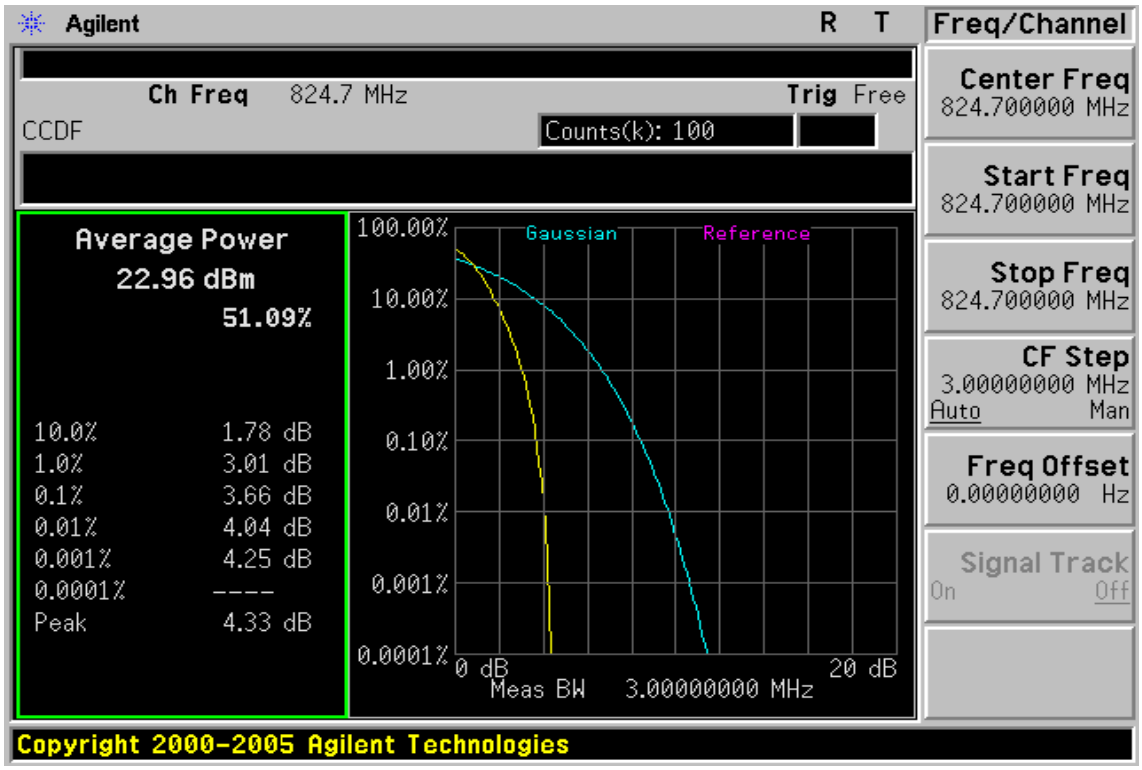

Figure 13-2: CDMA 2000 Cellular (BC0) Channel Mid

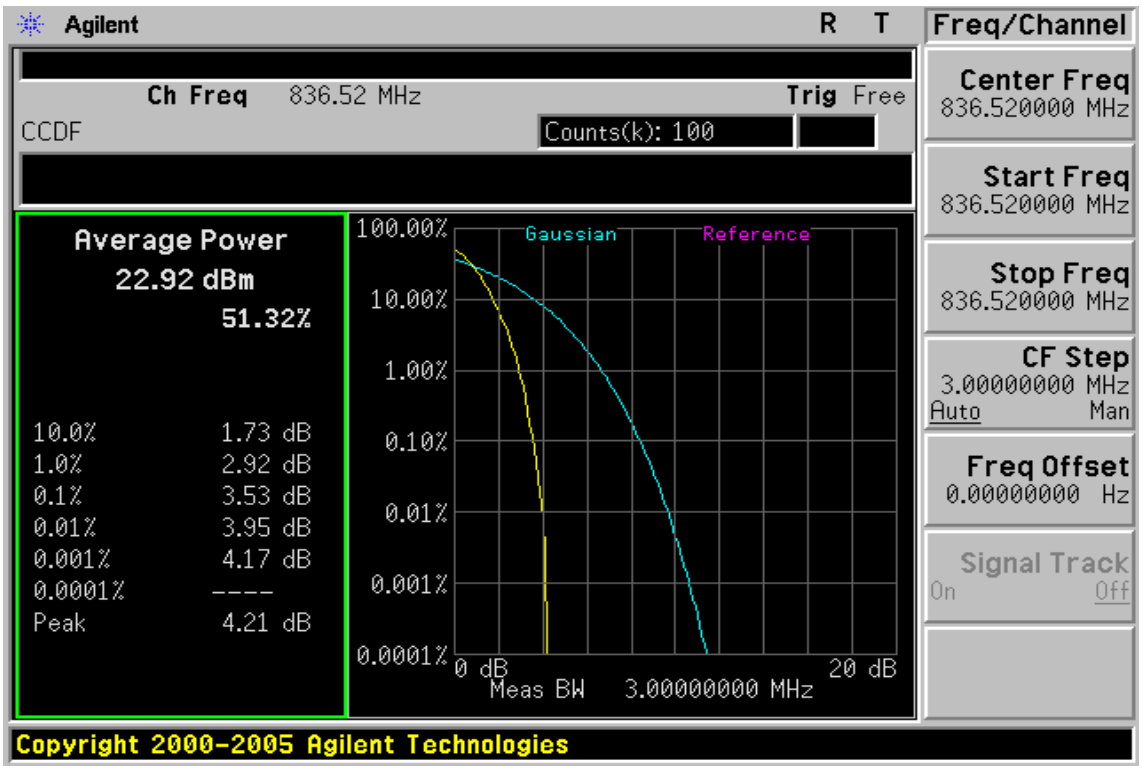

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Figure 13-3: CDMA 2000 Cellular (BC0) Channel High

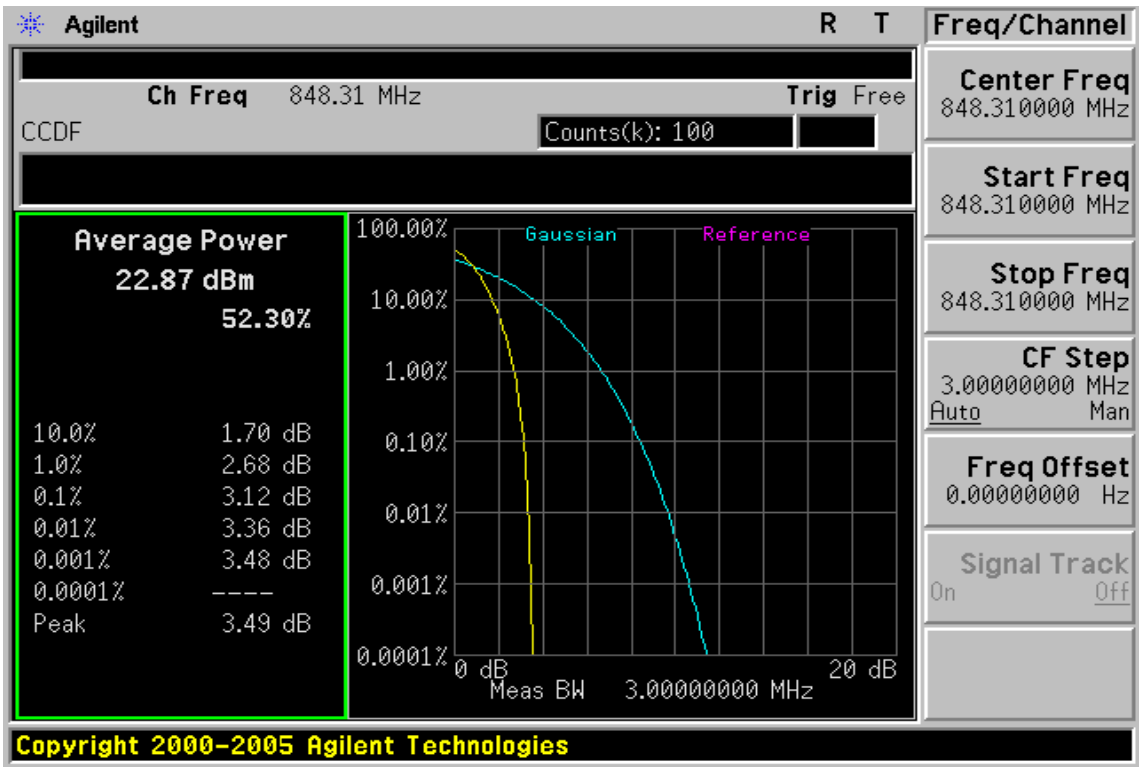

Figure 13-4: CDMA 2000 Cellular PCS (BC1) Channel Low

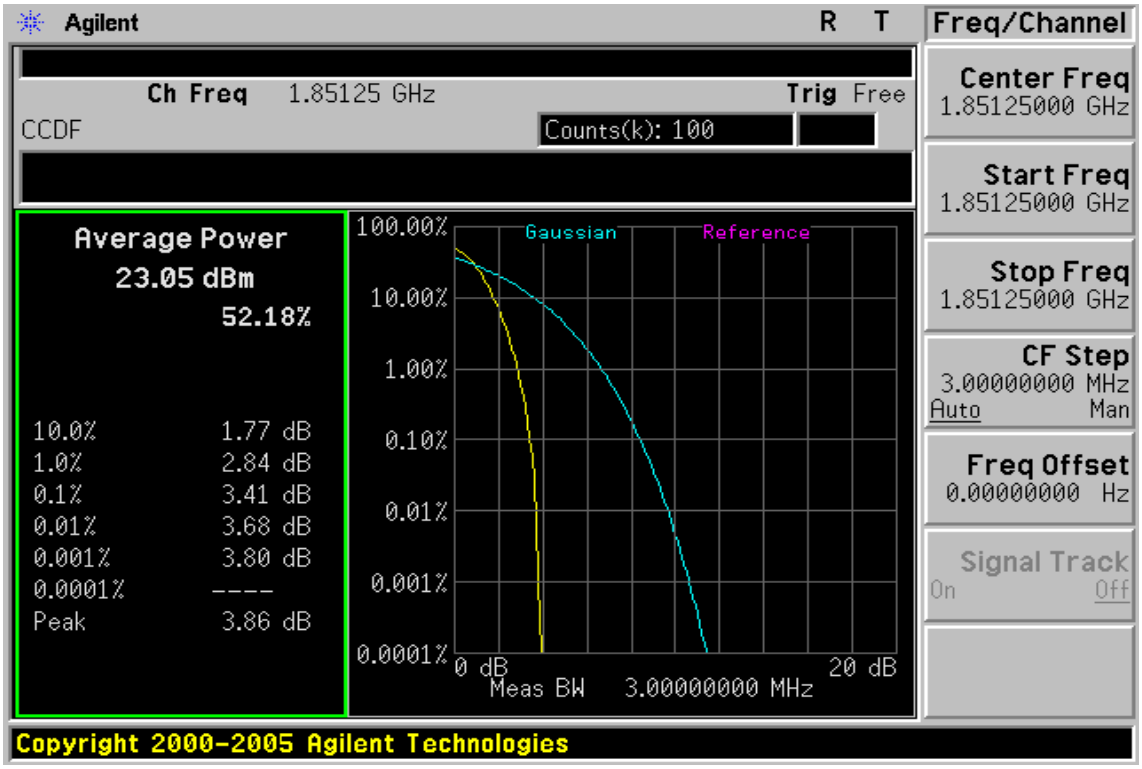

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Figure 13-5: CDMA 2000 Cellular PCS (BC1) Channel Mid

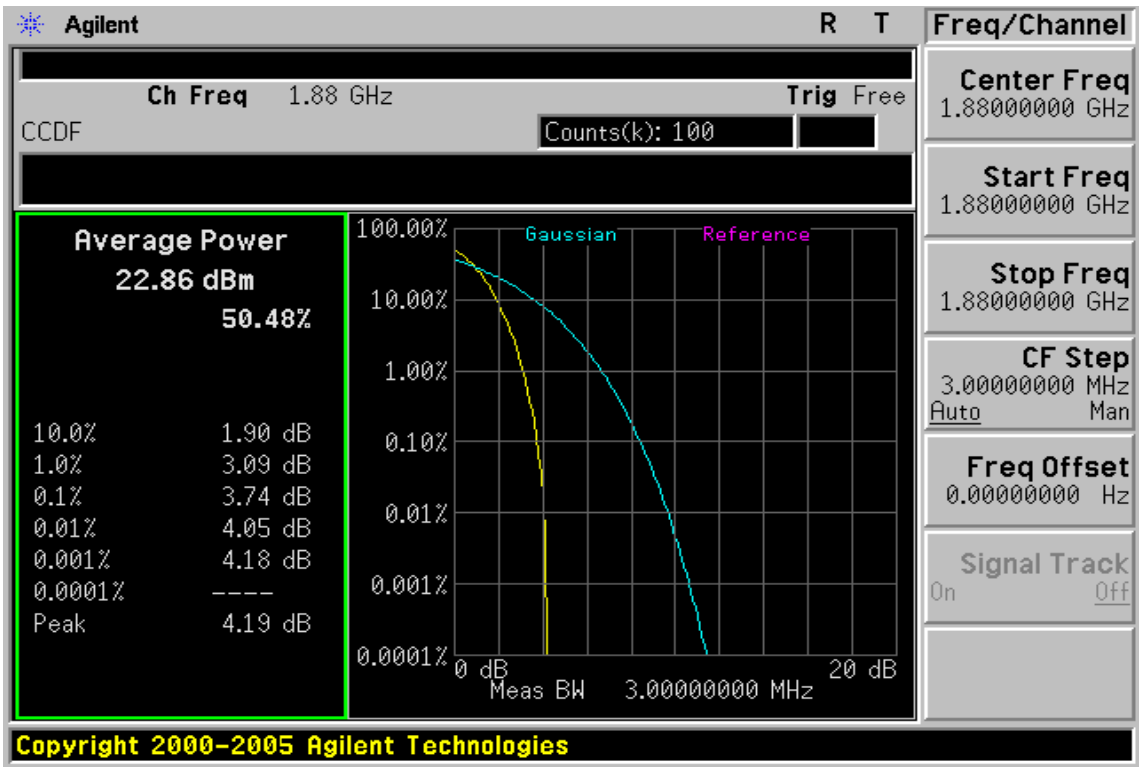

Figure 13-6: CDMA 2000 Cellular PCS (BC1) Channel High

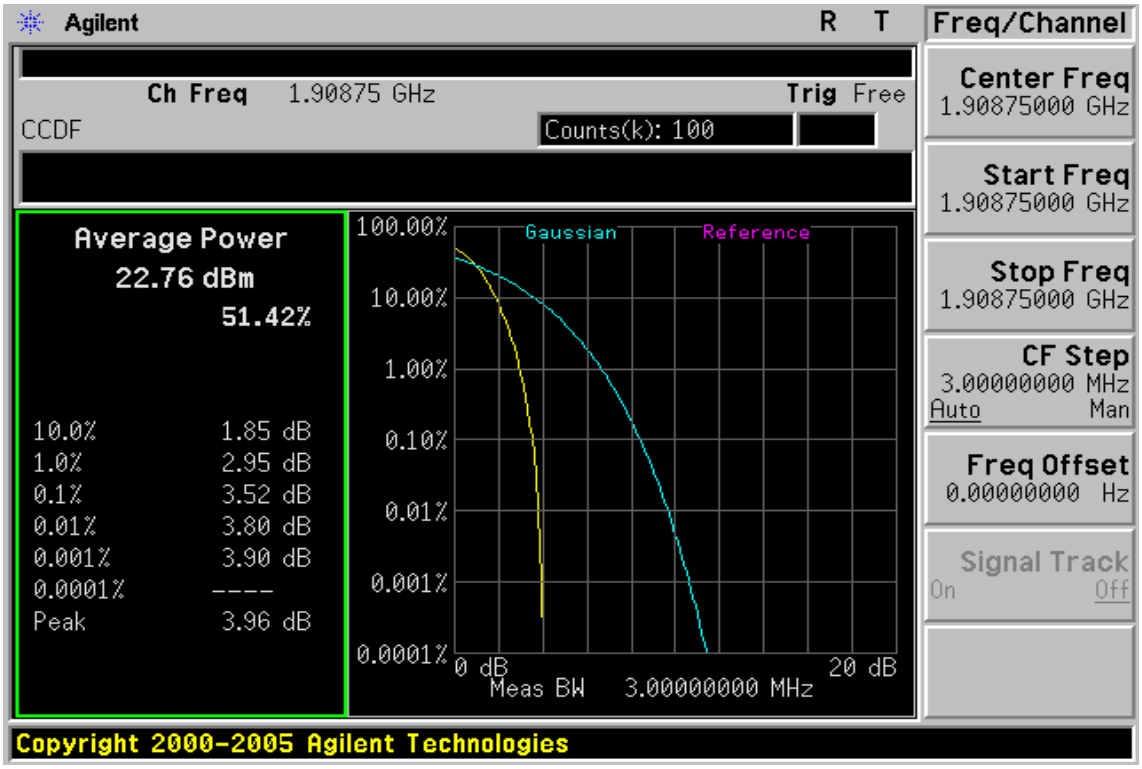

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Figure 13-7: CDMA 2000 (BC10) Channel Low

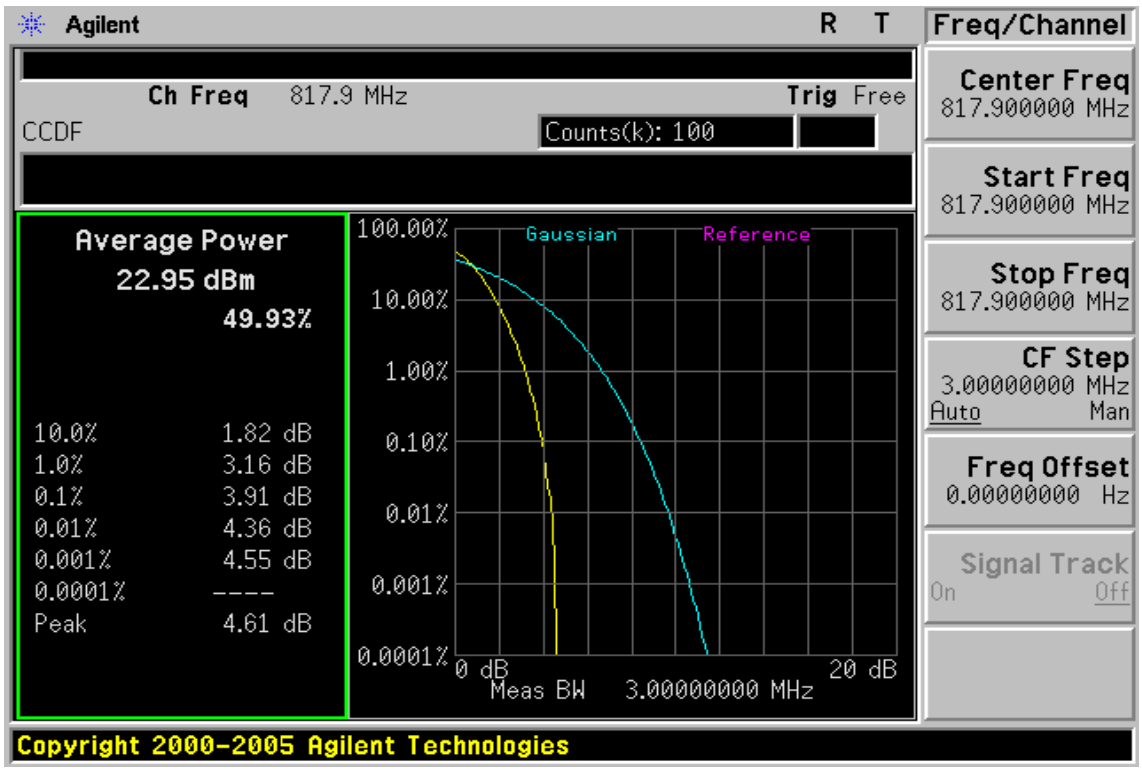

Figure 13-8: CDMA 2000 (BC10) Channel Mid

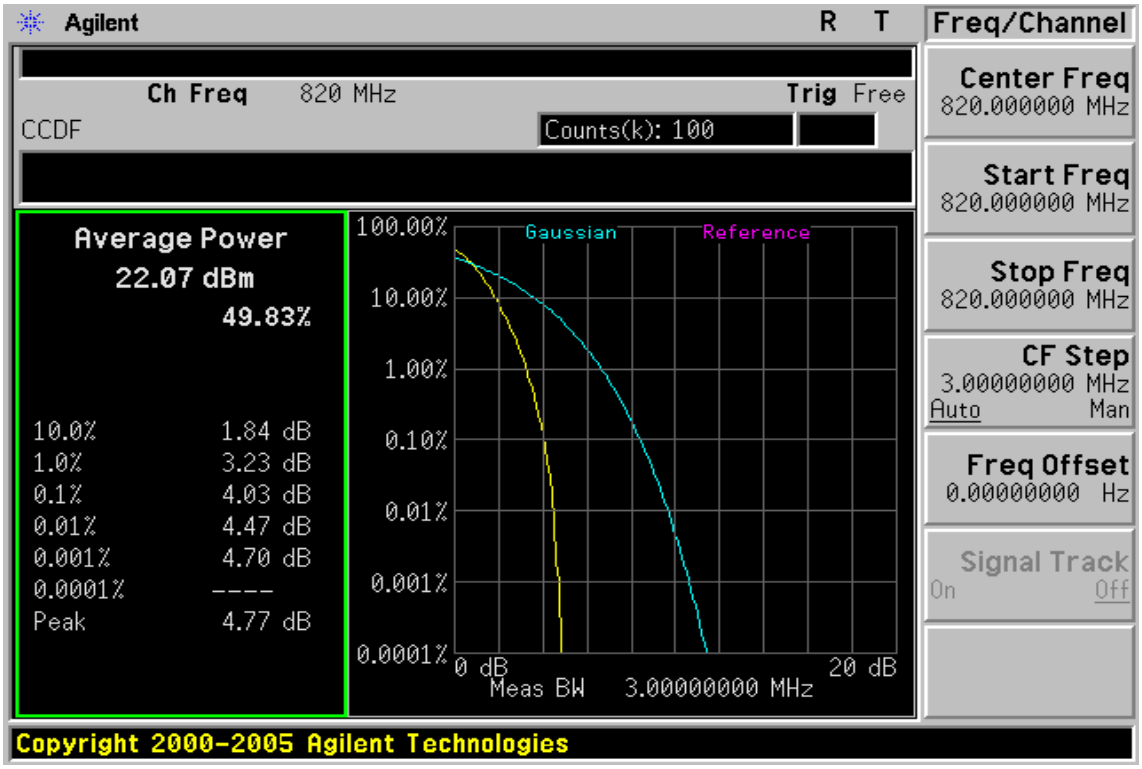

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Figure 13-9: CDMA 2000 (BC10) Channel High

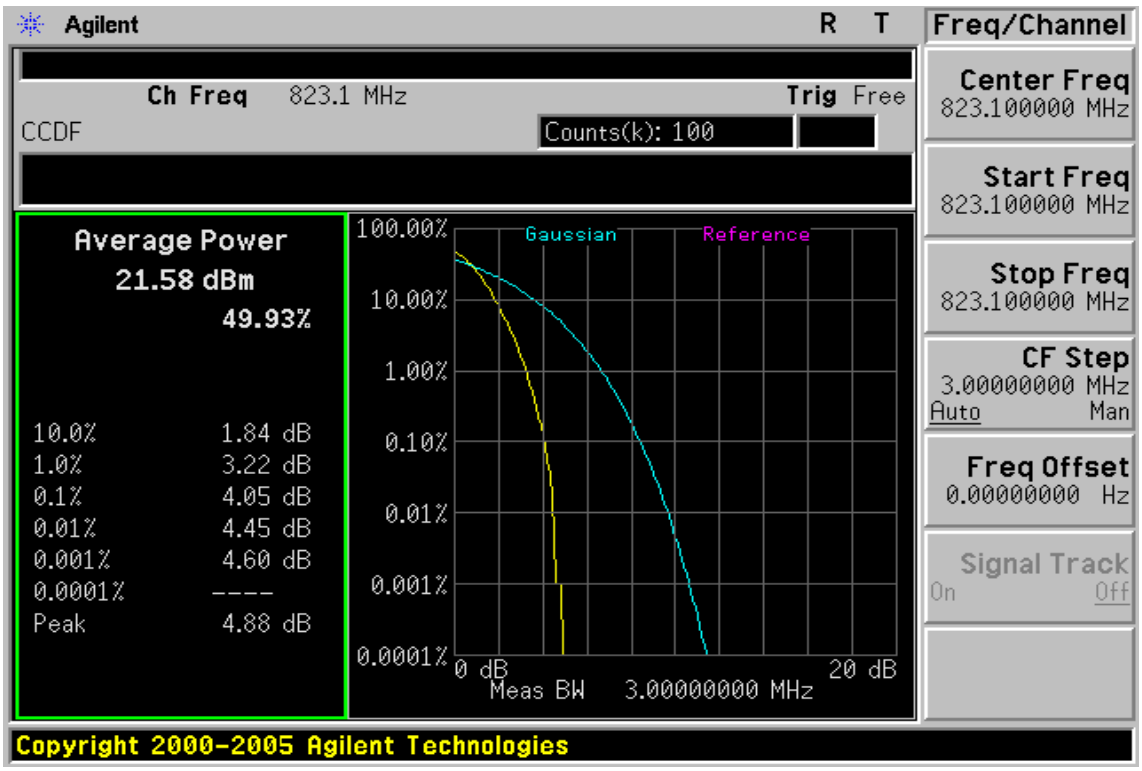

Figure 13-10: CDMA 2000 EVDO Cellular (BC0) Channel Low

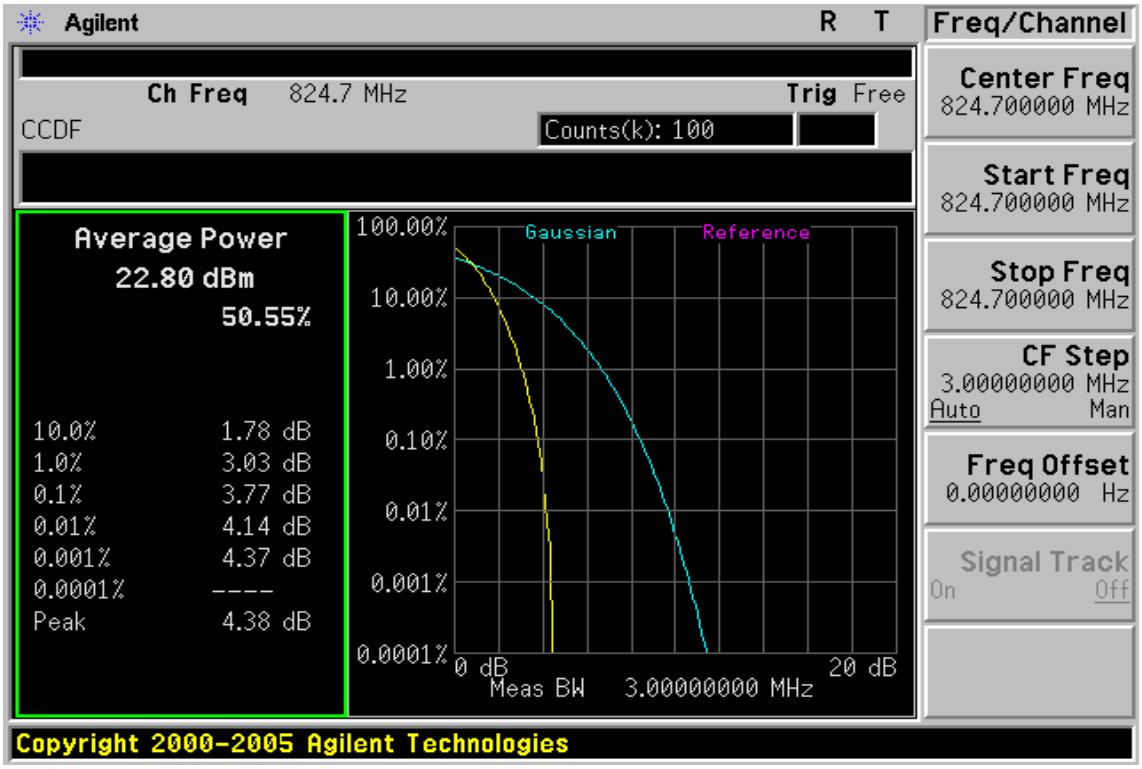

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Figure 13-11 CDMA 2000 EVDO Cellular (BC0) Channel Mid

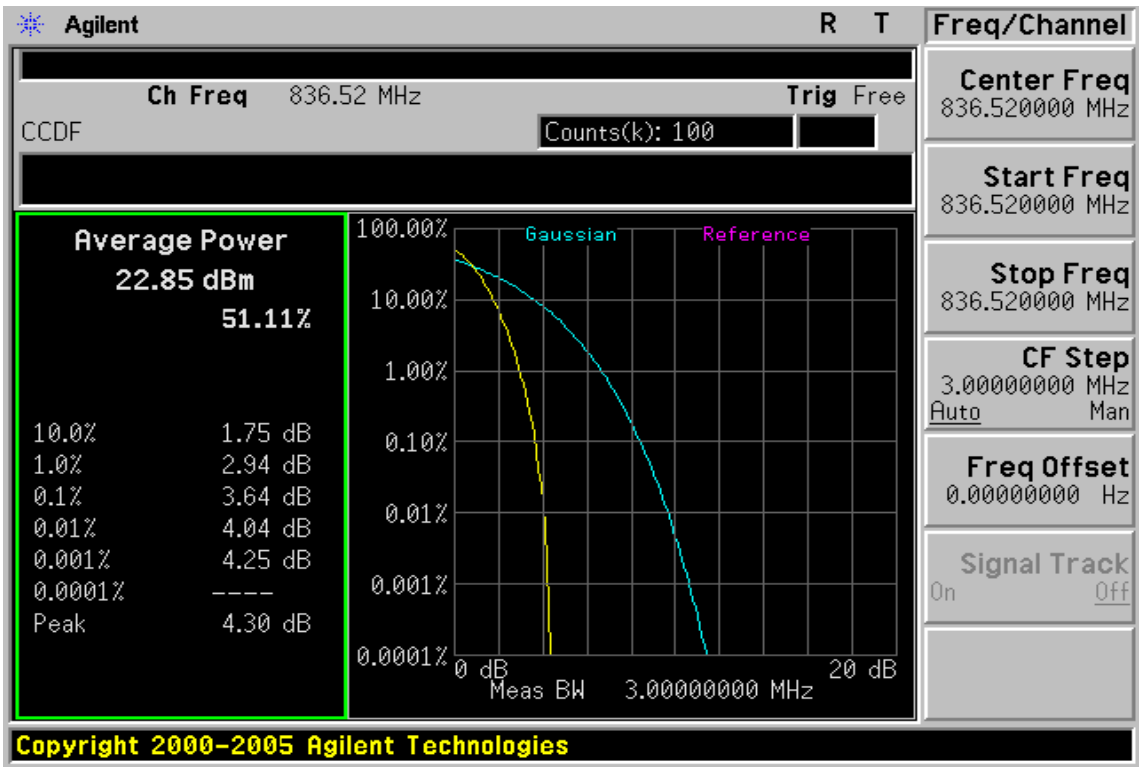

Figure 13-12: CDMA 2000 EVDO Cellular (BC0) Channel High

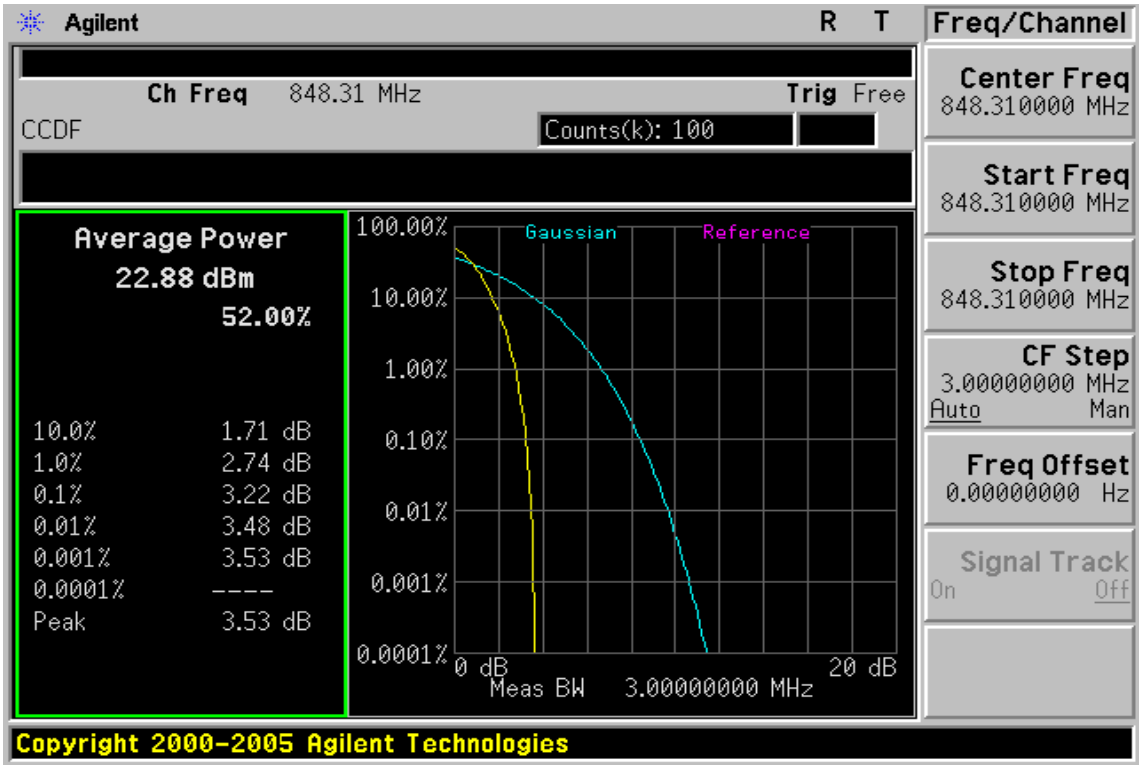

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Figure 13-13: CDMA 2000 EVDO PCS (BC1) Channel Low

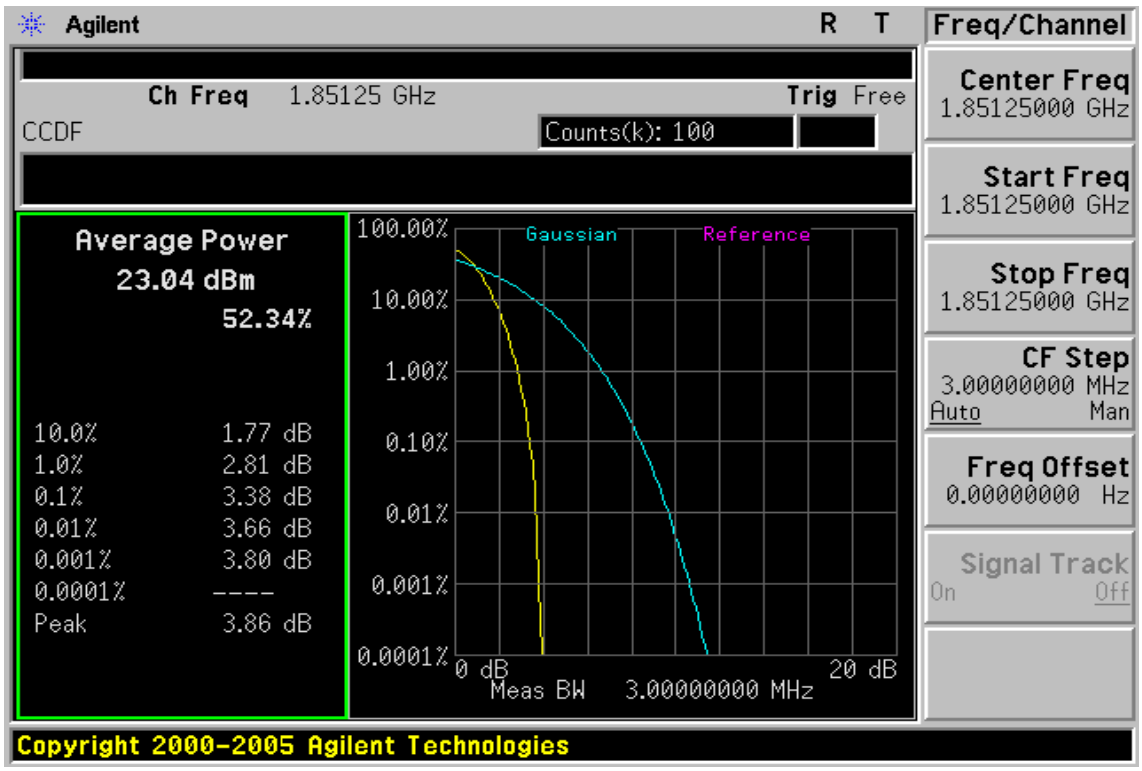

Figure 13-14: CDMA 2000 EVDO PCS (BC1) Channel Mid

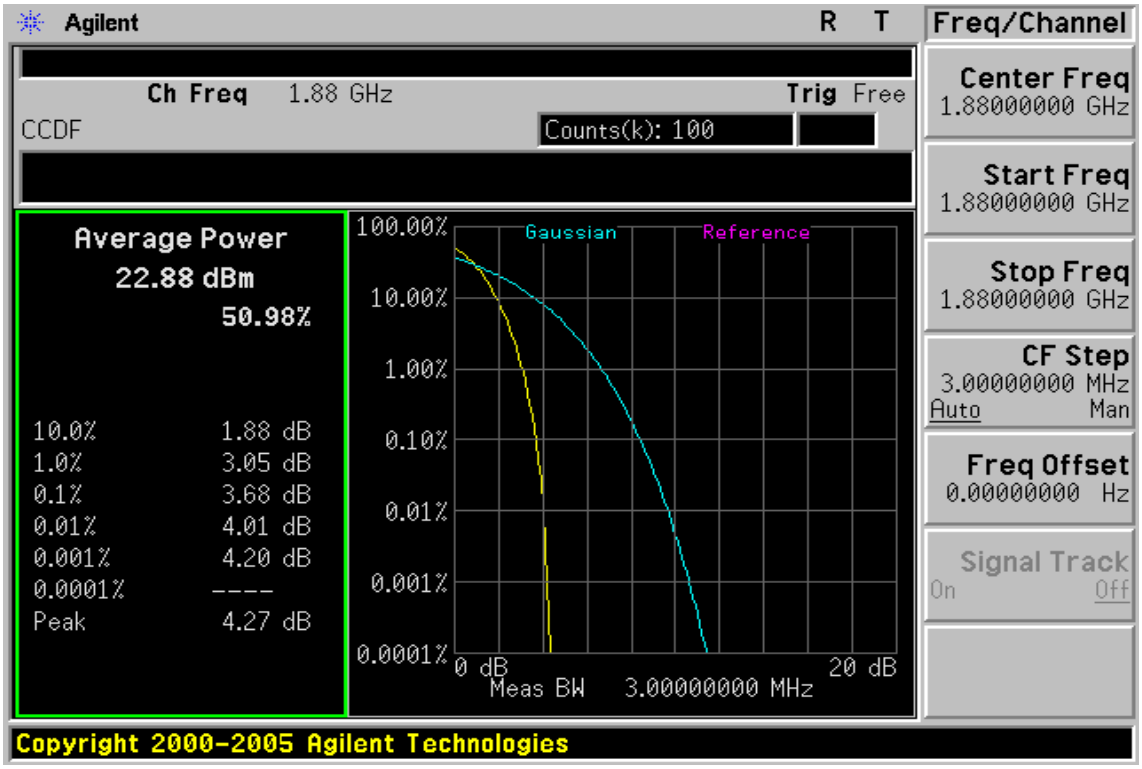

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Figure 13-15: CDMA 2000 EVDO PCS (BC1) Channel High

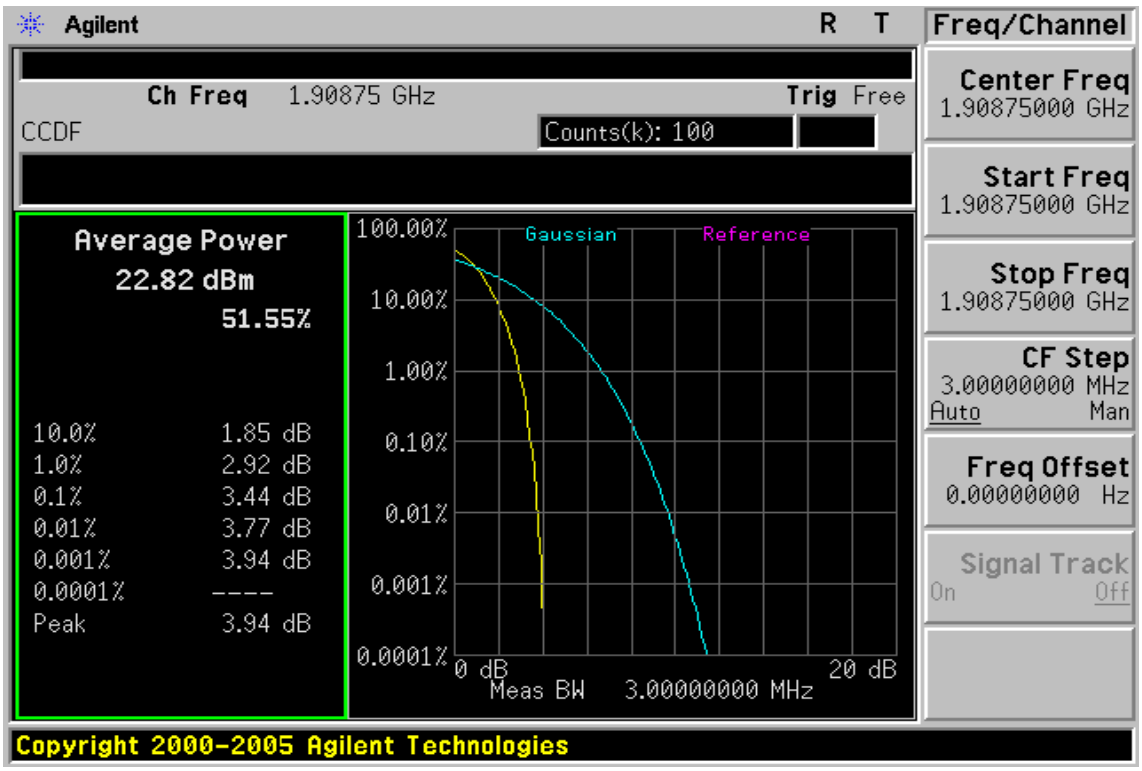

Figure 13-16: CDMA 2000 EVDO (BC10) Channel Low

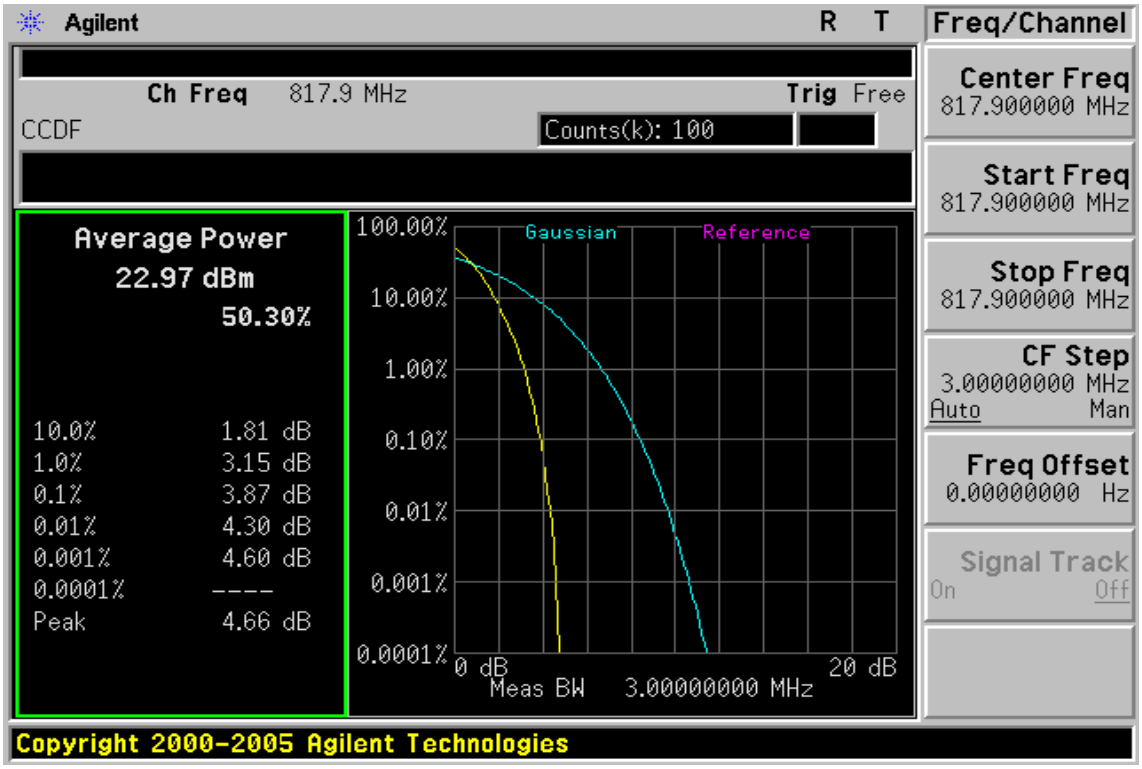

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Figure 13-17 CDMA 2000 EVDO (BC10) Channel Mid

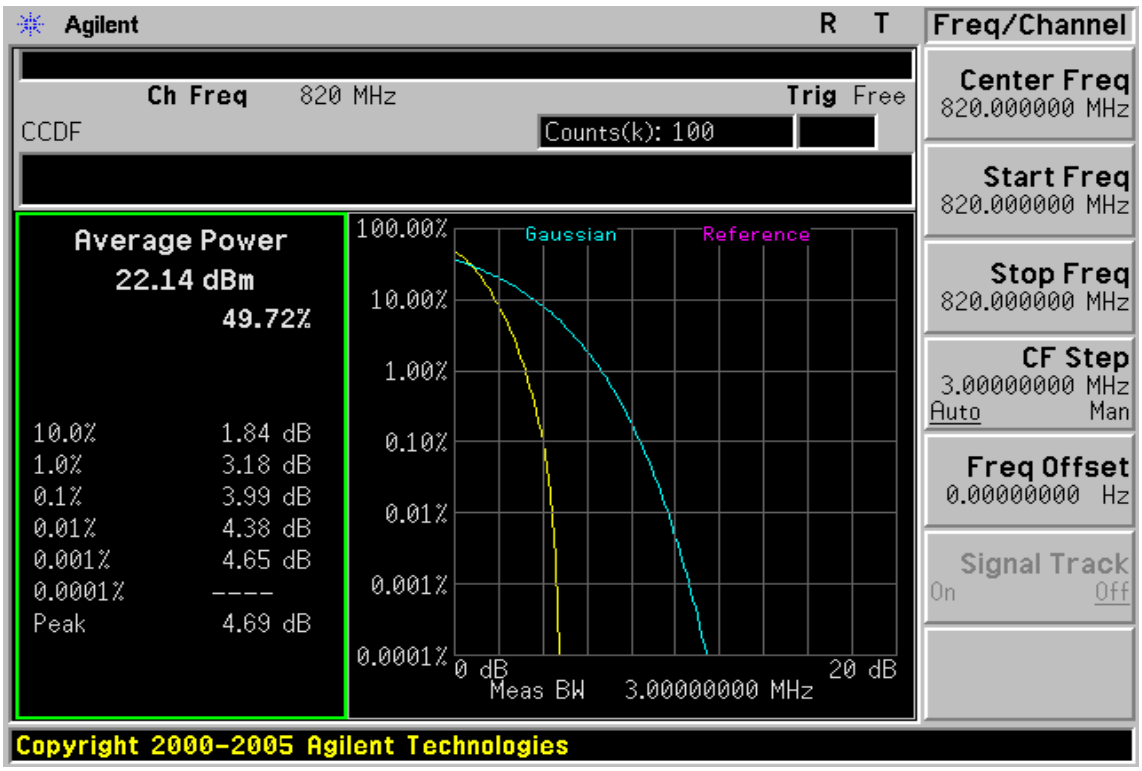

Figure 13-18: CDMA 2000 EVDO (BC10) Channel High

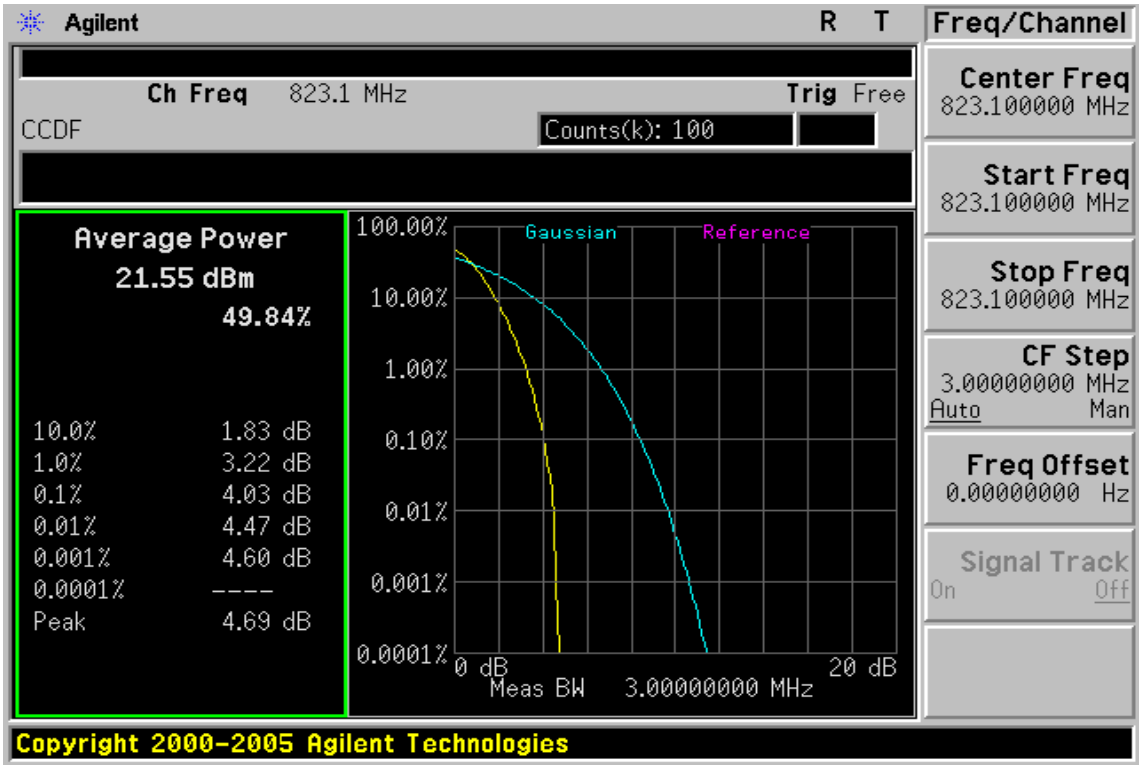

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Figure 13-19: 1.4MHz BW LTE-Band 25(16QAM Number: 6 Offset: 0) Channel Low

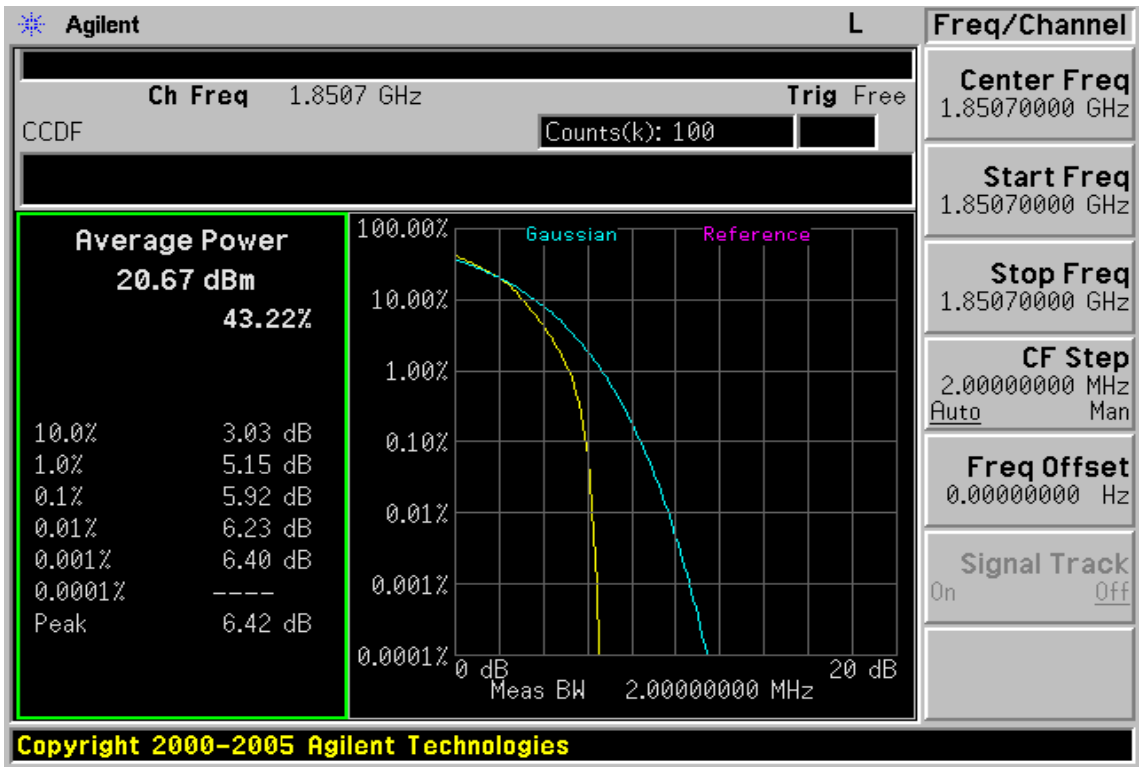

Figure 13-20: 1.4MHz BW LTE-Band 25(16QAM Number: 6 Offset: 0) Channel Mid

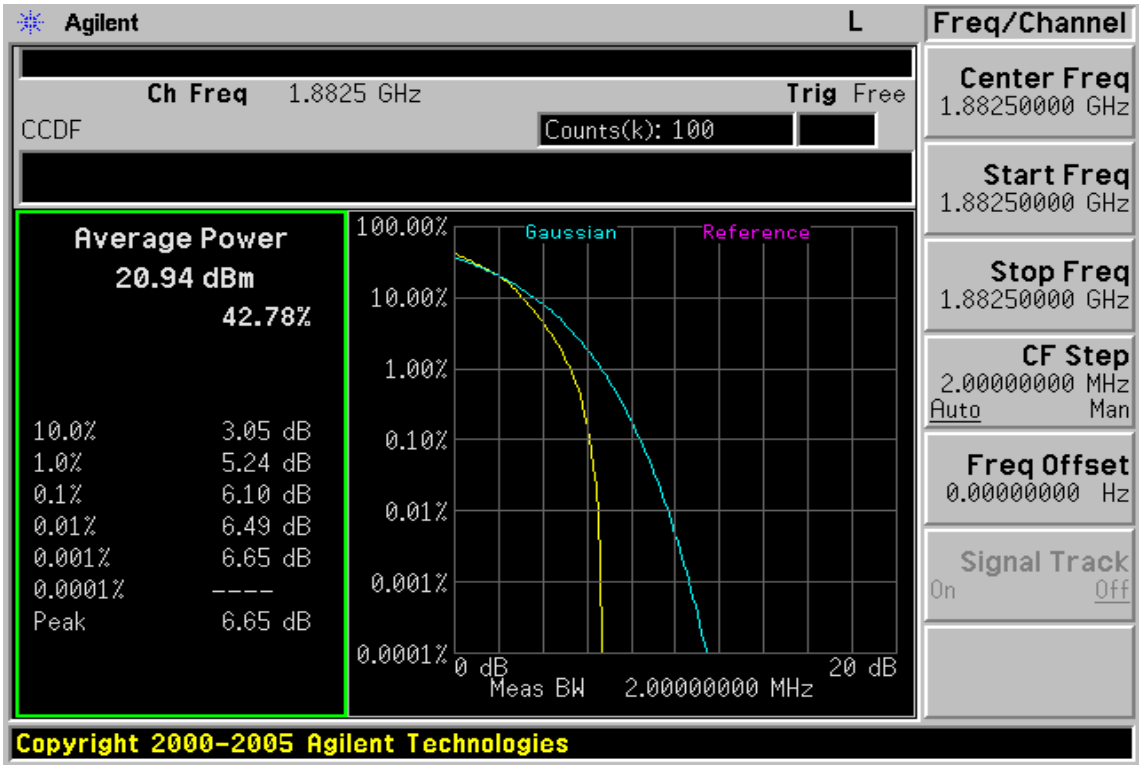

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Figure 13-21: 1.4MHz BW LTE-Band 25(16QAM Number: 6 Offset: 0) Channel High

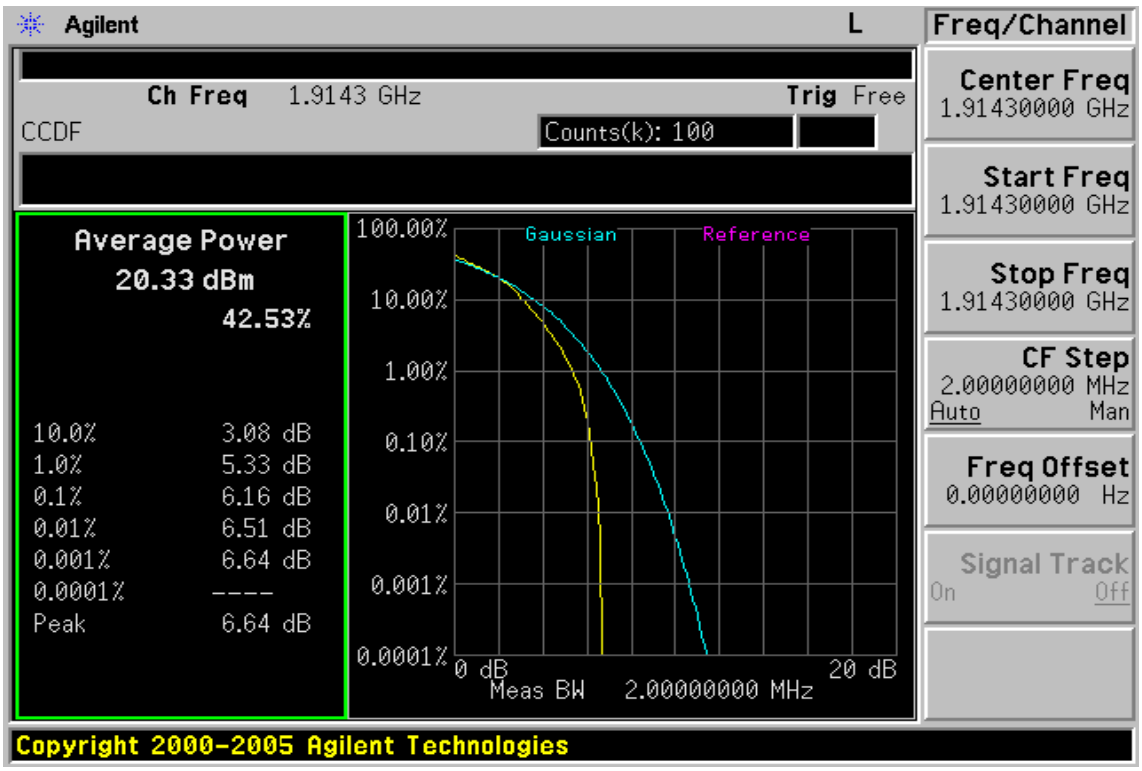

Figure 13-22: 3MHz BW LTE-Band 25(16QAM Number: 15 Offset: 0) Channel Low

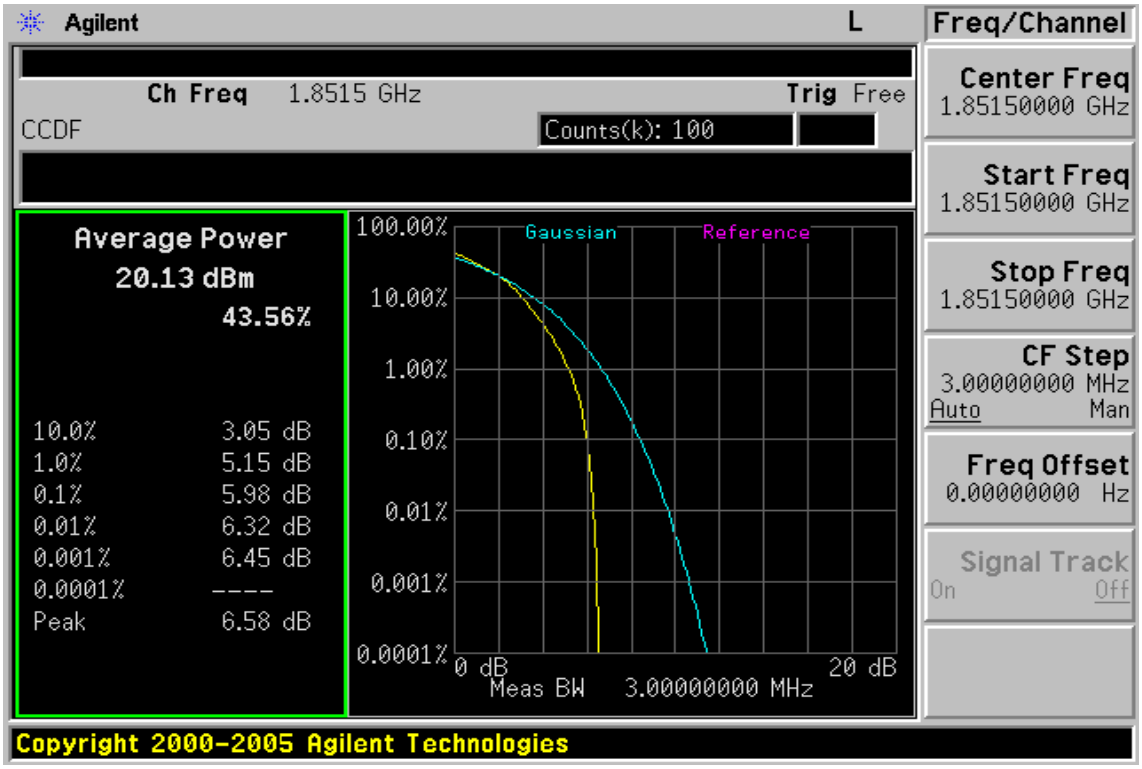

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Figure 13-23: 3MHz BW LTE-Band 25(16QAM Number: 15 Offset: 0) Channel Mid

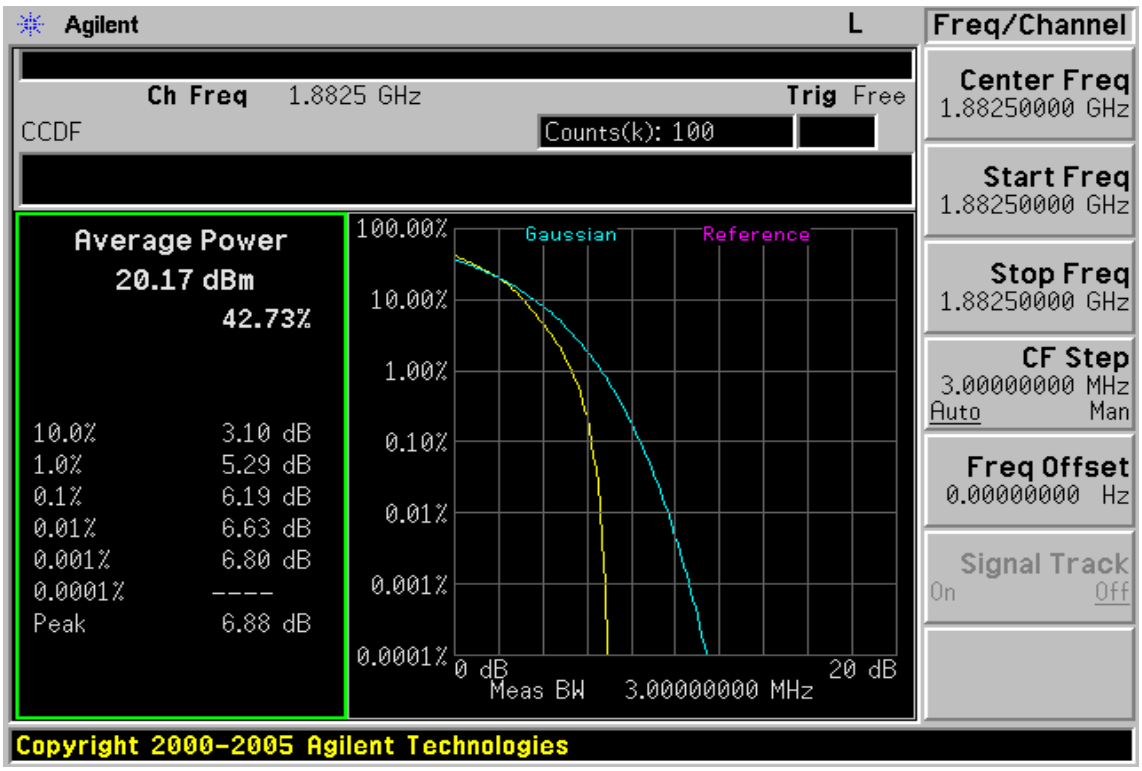

Figure 13-24: 3MHz BW LTE-Band 25(16QAM Number: 15 Offset: 0) Channel High

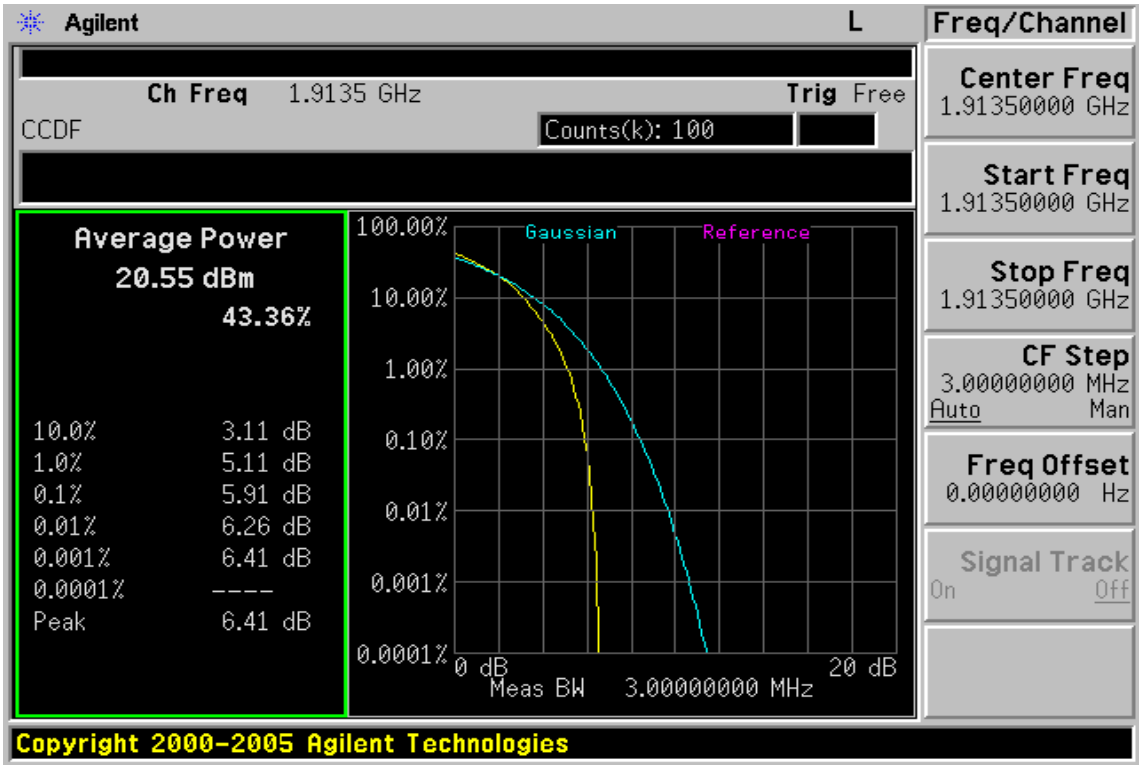

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Figure 13-25: 5MHz BW LTE-Band 25(16QAM Number: 25 Offset: 0) Channel Low

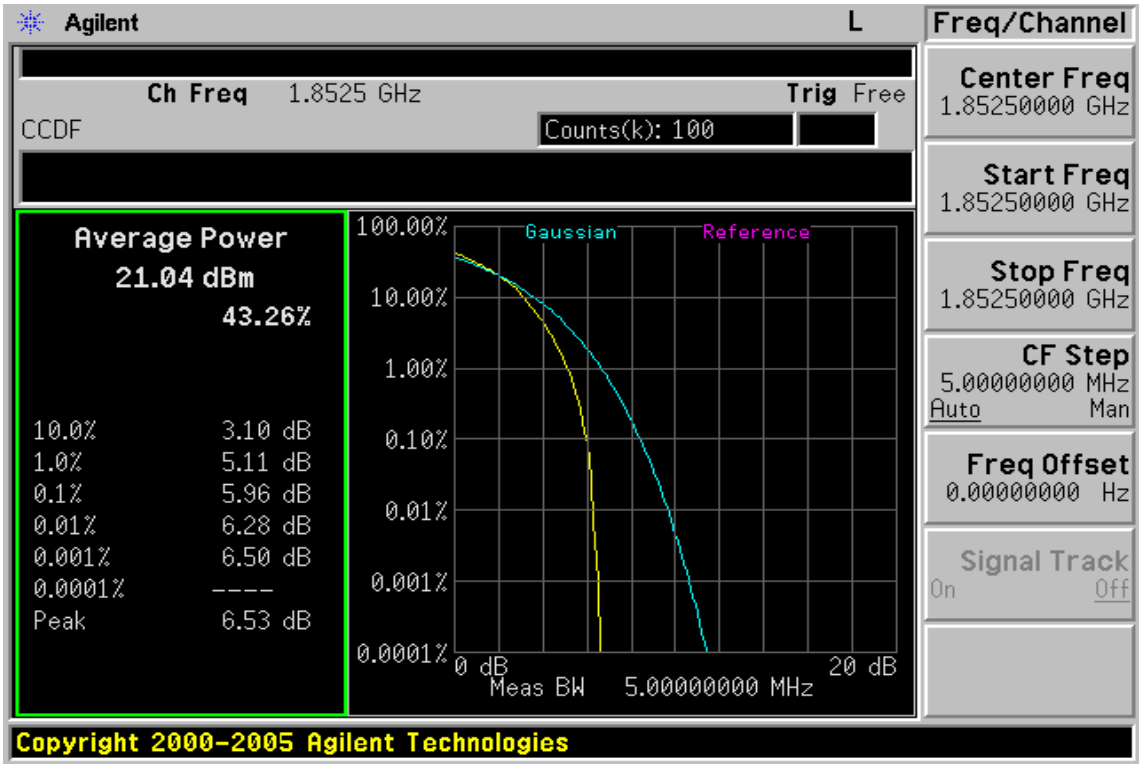

Figure 13-26: 5MHz BW LTE-Band 25(16QAM Number: 25 Offset: 0) Channel Mid

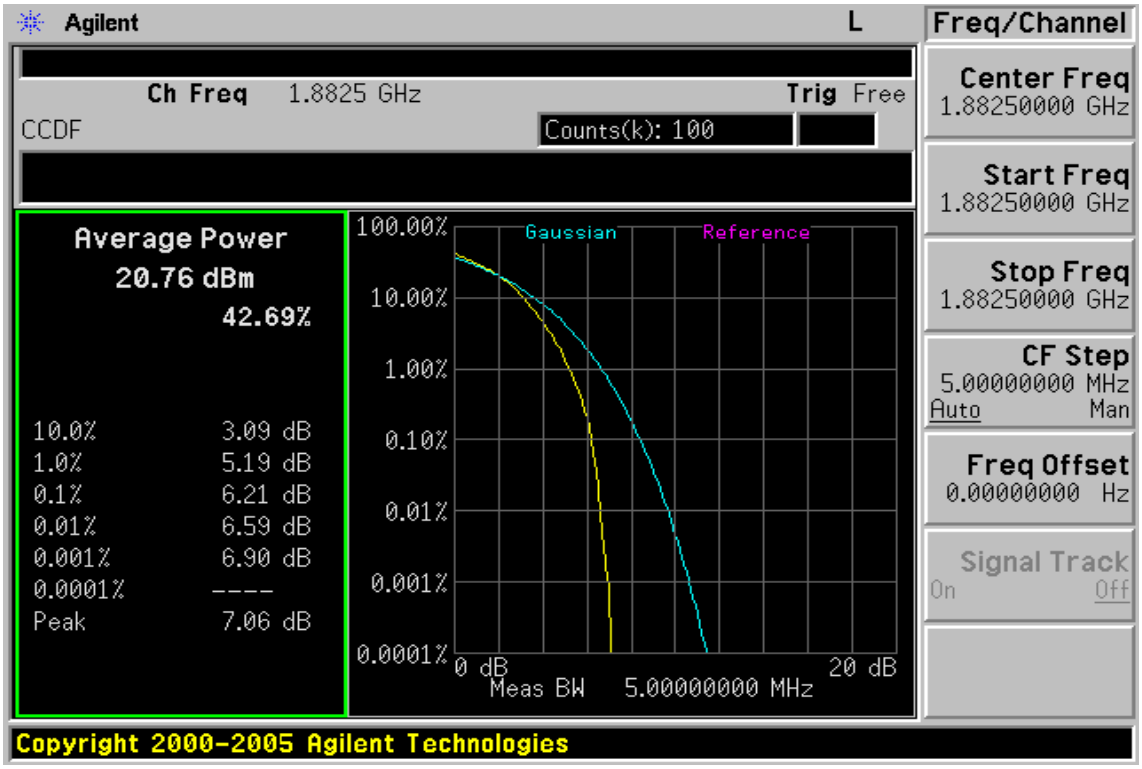

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Figure 13-27: 5MHz BW LTE-Band 25(16QAM Number: 25 Offset: 0) Channel High

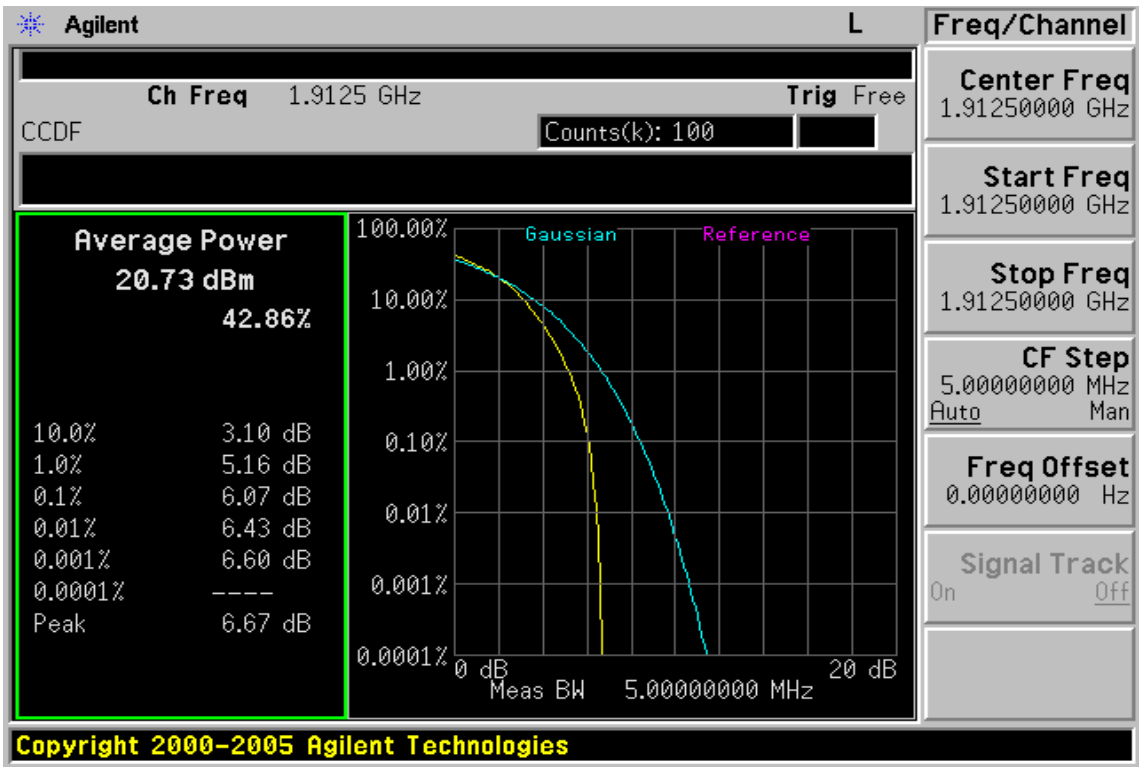

Figure 13-28: 10MHz BW LTE-Band 25(16QAM Number: 50 Offset: 0) Channel Low

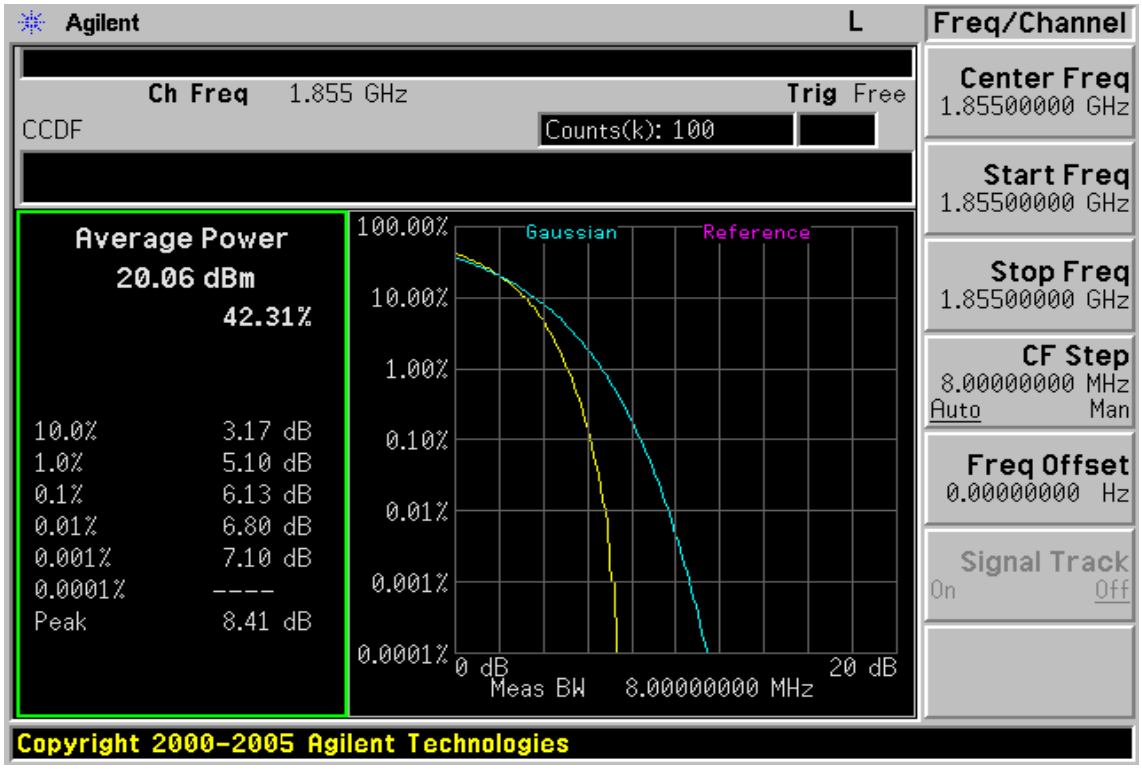

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Figure 13-29: 10MHz BW LTE-Band 25(16QAM Number: 50 Offset: 0) Channel Mid

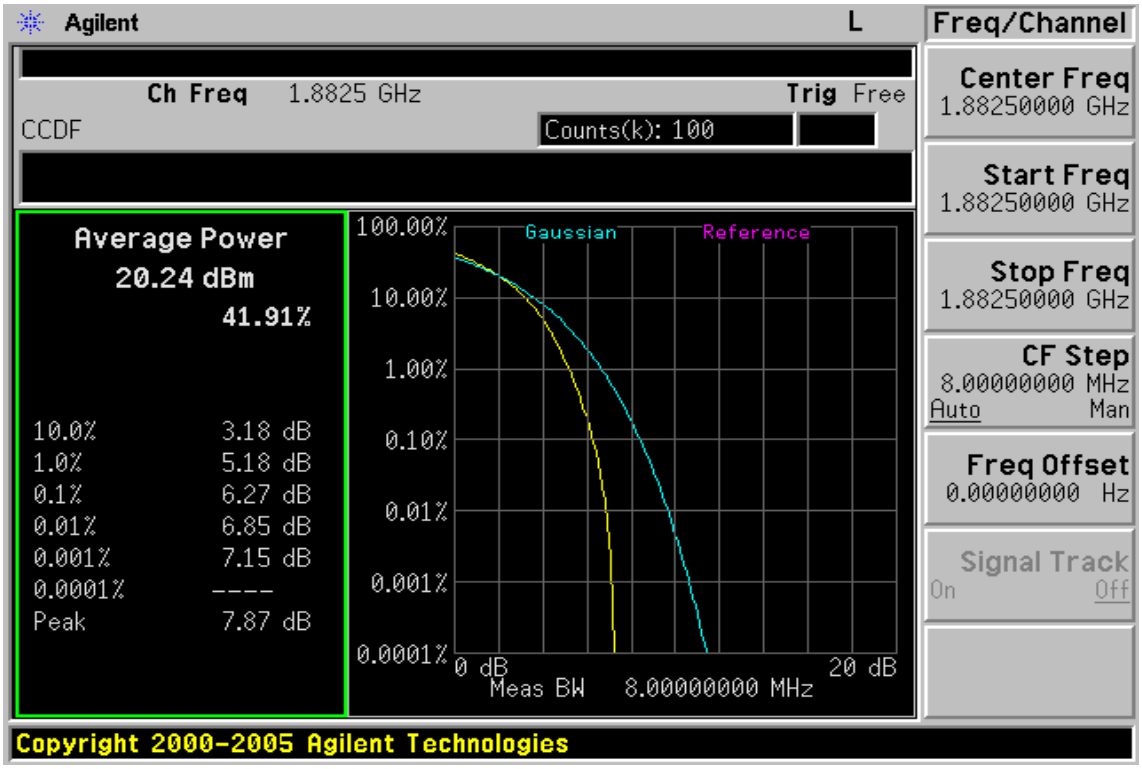

Figure 13-30: 10MHz BW LTE-Band 25(16QAM Number: 50 Offset: 0) Channel High

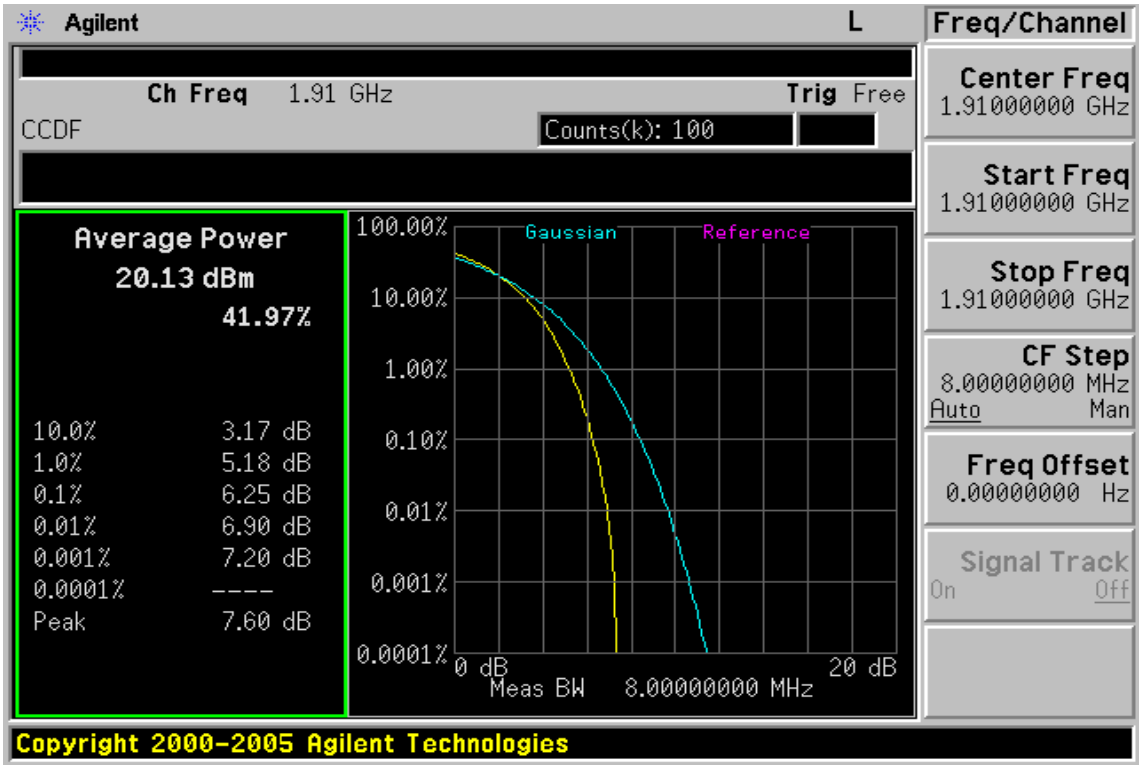

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Figure 13-31: 15MHz BW LTE-Band 25(16QAM Number: 75 Offset: 0) Channel Low

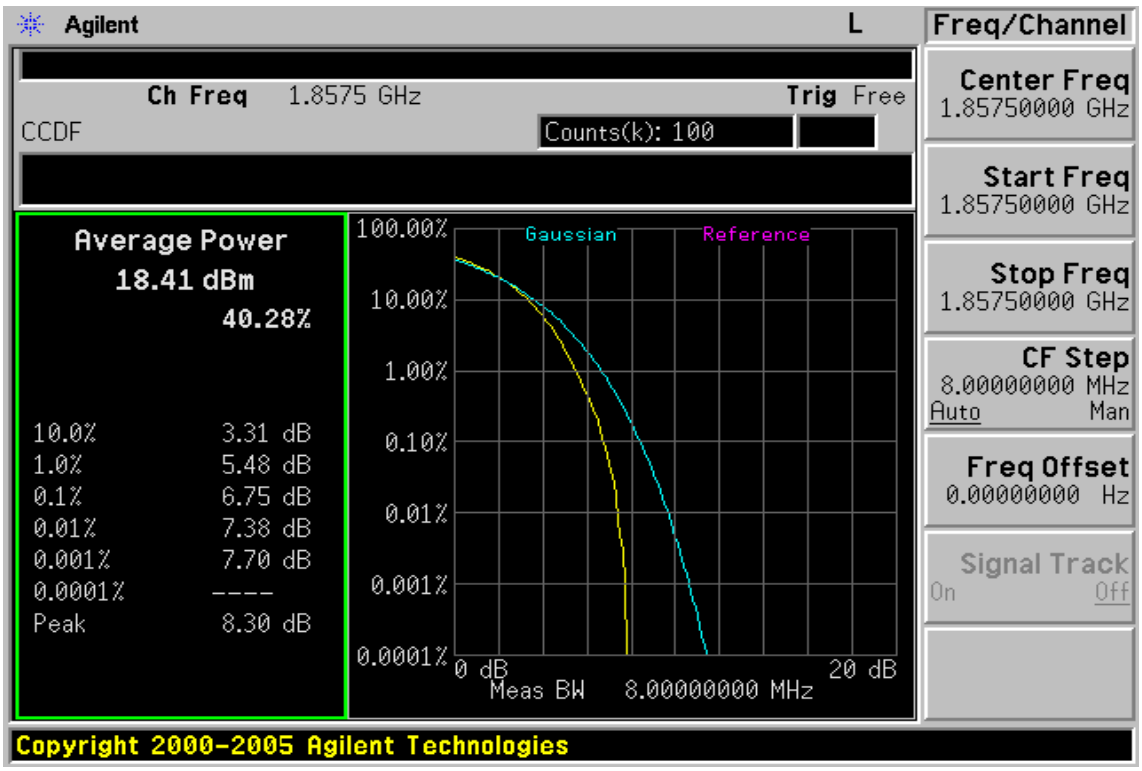

Figure 13-32: 15MHz BW LTE-Band 25(16QAM Number: 75 Offset: 0) Channel Mid

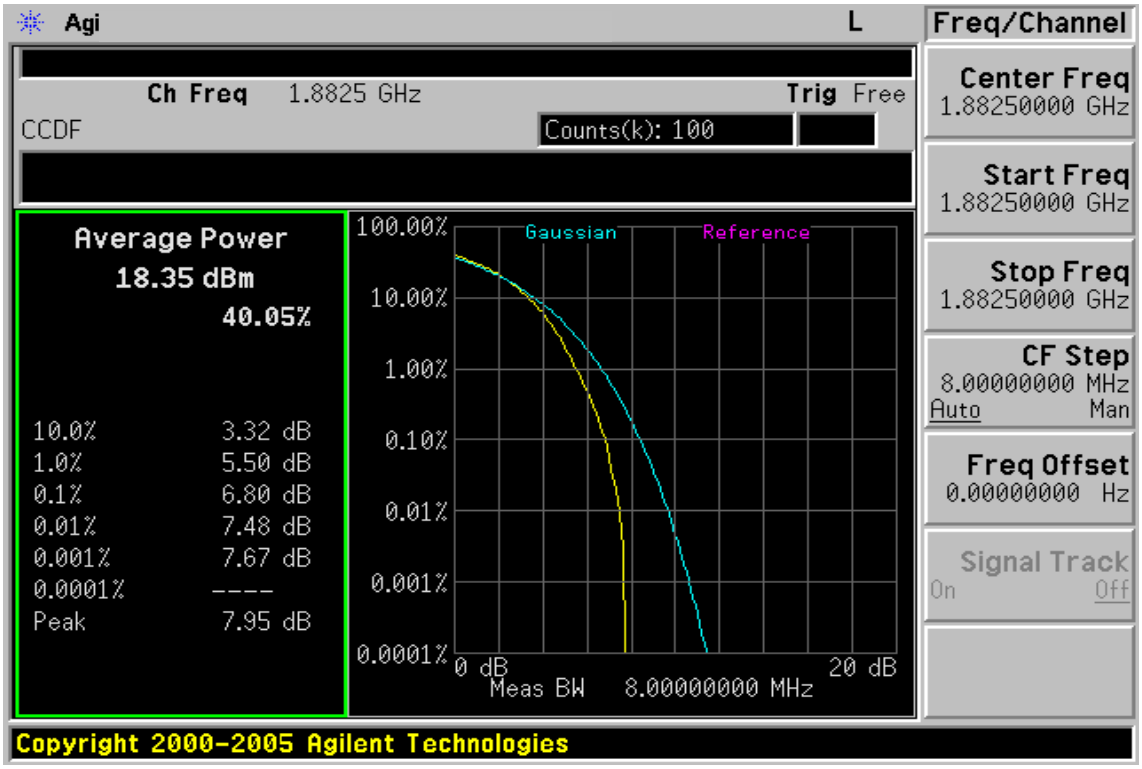

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Figure 13-33: 15MHz BW LTE-Band 25(16QAM Number: 75 Offset: 0) Channel High

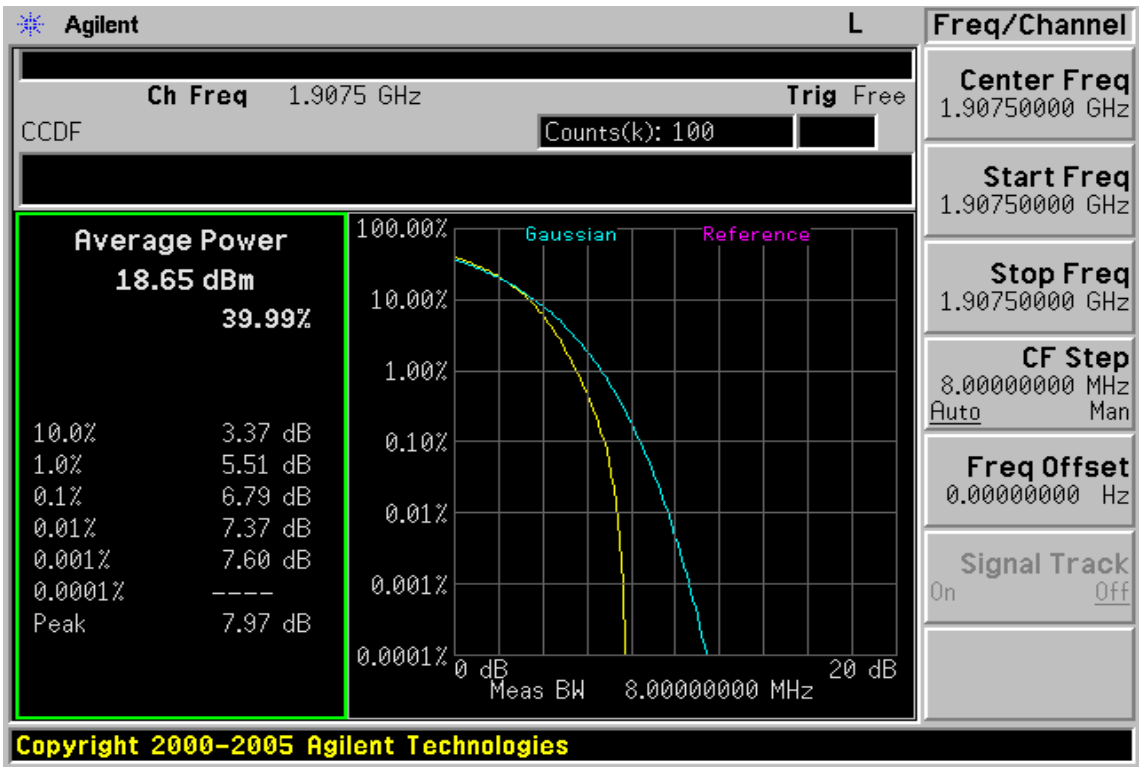

Figure 13-34: 20MHz BW LTE-Band 25(16QAM Number: 100 Offset: 0) Channel Low

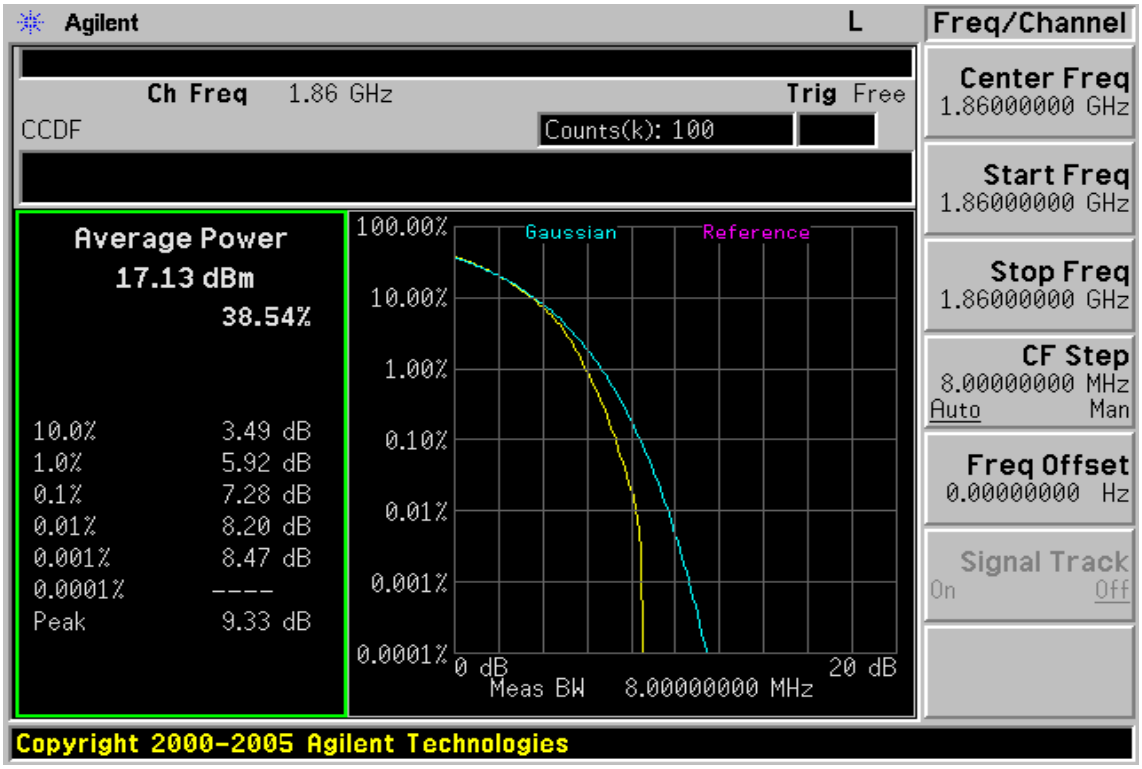

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Figure 13-35: 20MHz BW LTE-Band 25(16QAM Number: 100 Offset: 0) Channel Mid

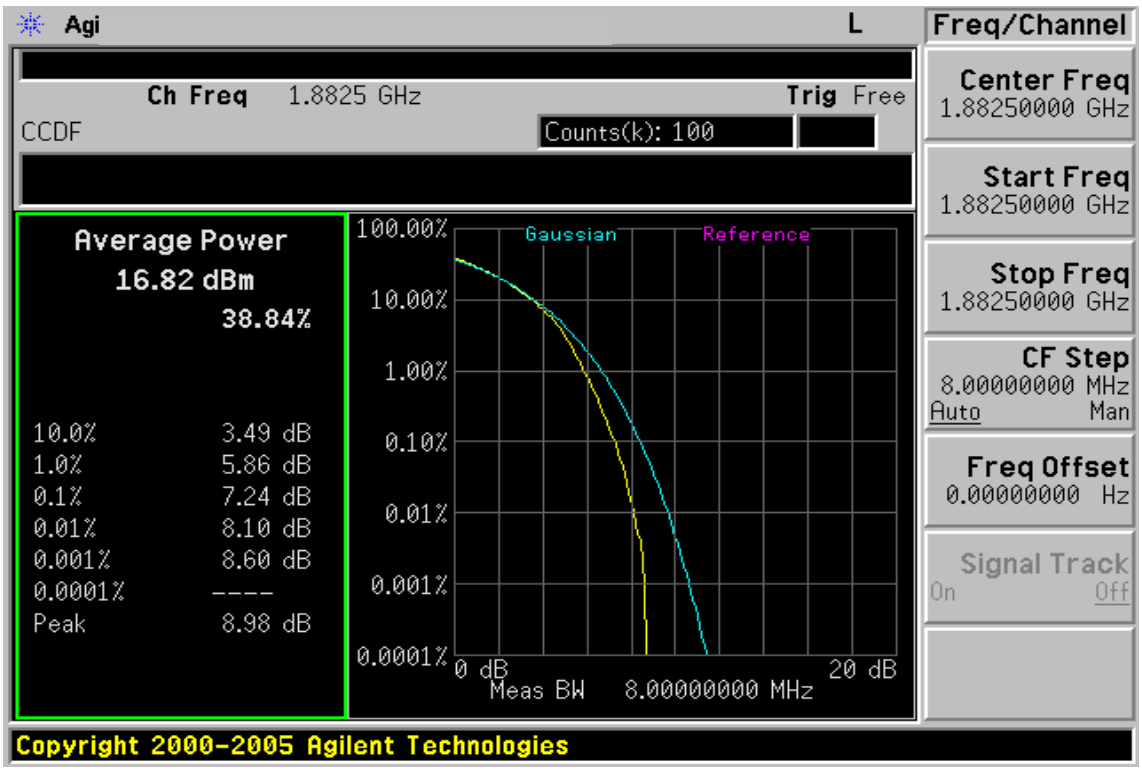

Figure 13-36: 20MHz BW LTE-Band 25(16QAM Number: 100 Offset: 0) Channel High

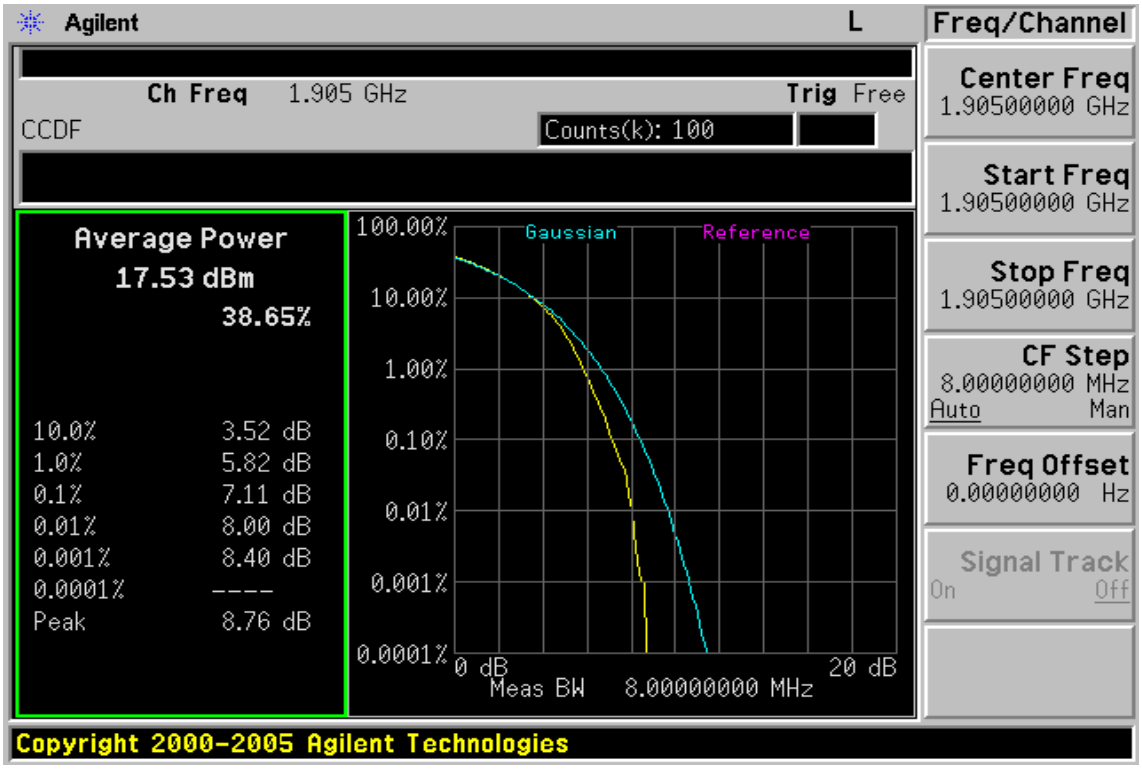

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Figure 13-37: 1.4MHz BW LTE-Band 26(16QAM Number: 6 Offset: 0) Channel Low

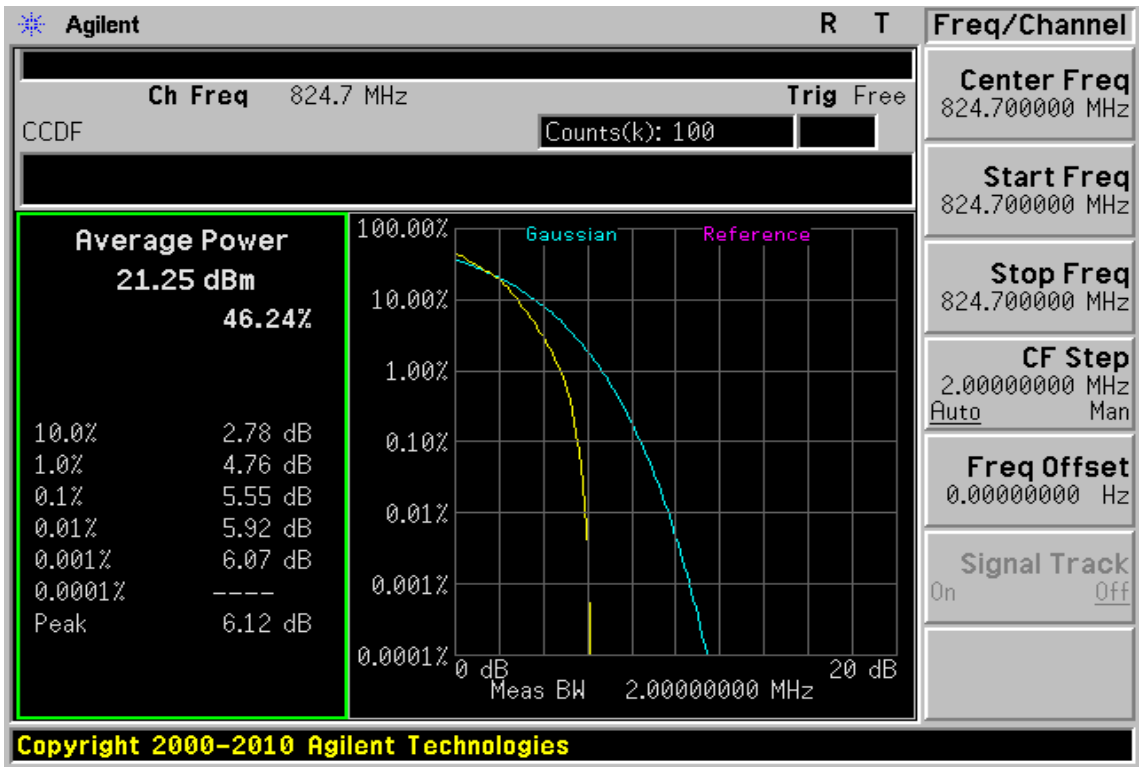

Figure 13-38: 1.4MHz BW LTE-Band 26(16QAM Number: 6 Offset: 0) Channel Mid

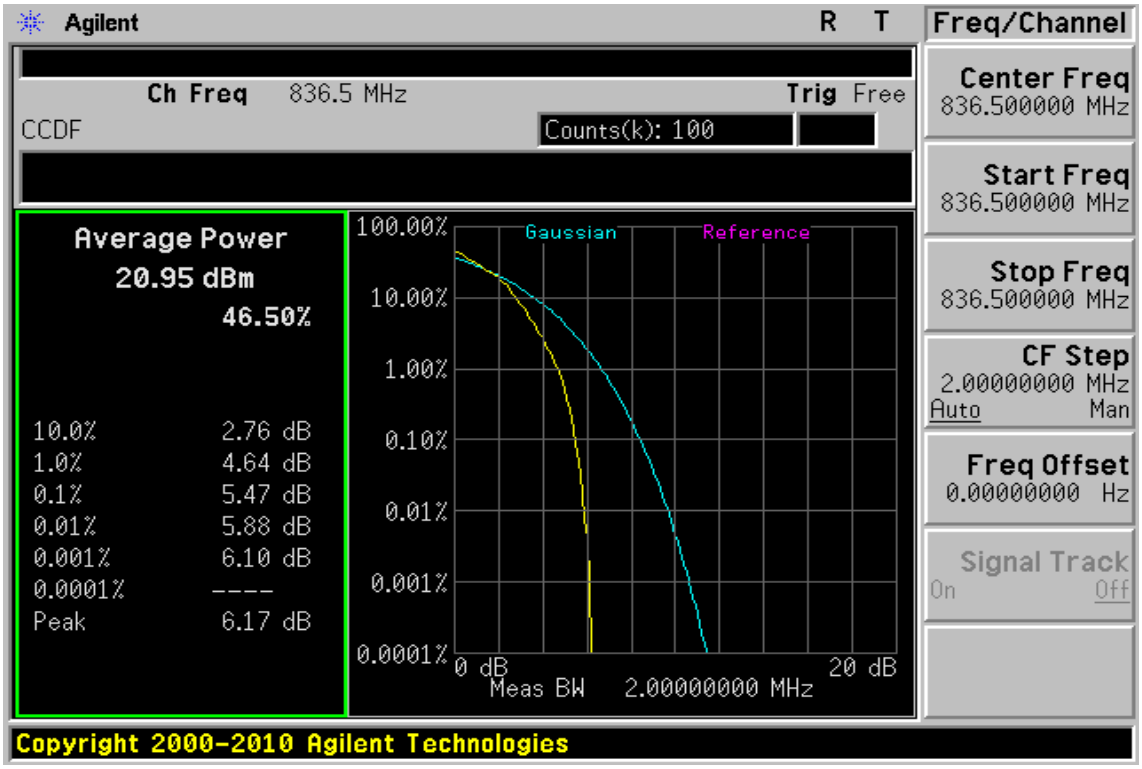

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Figure 13-39: 1.4MHz BW LTE-Band 26(16QAM Number: 6 Offset: 0) Channel High

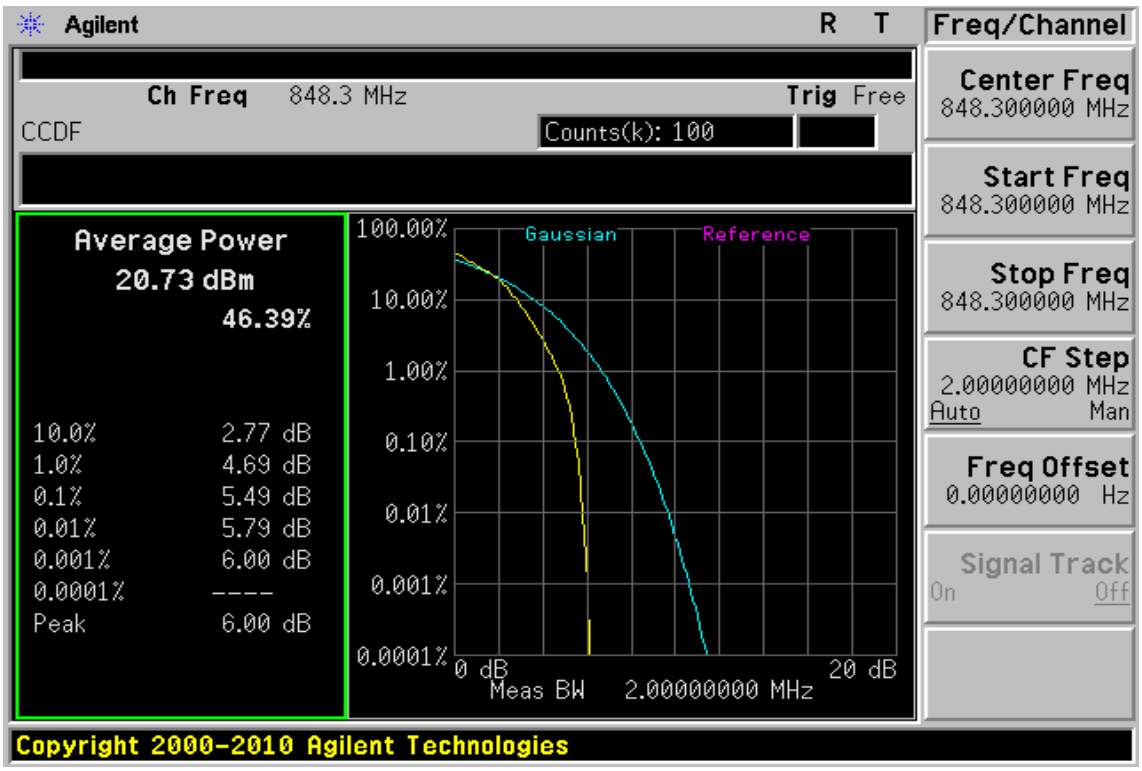

Figure 13-40: 3MHz BW LTE-Band 26(16QAM Number: 15 Offset: 0) Channel Low

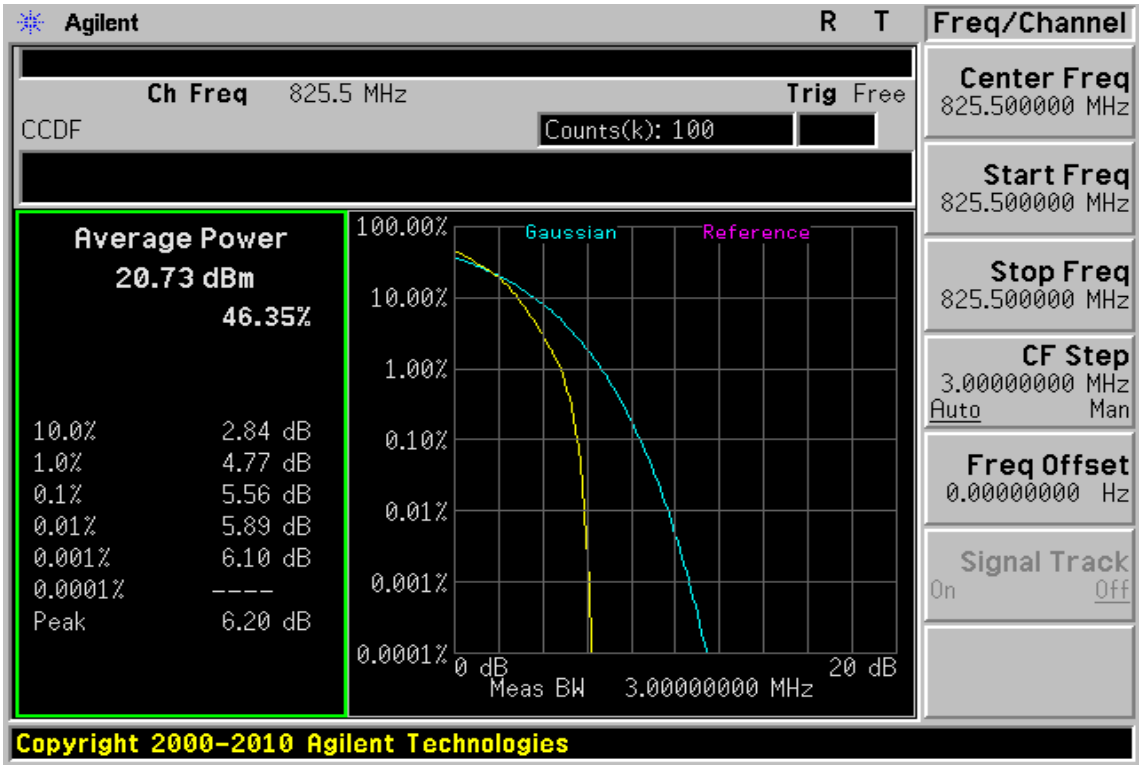

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Figure 13-41: 3MHz BW LTE-Band 26(16QAM Number: 15 Offset: 0) Channel Mid

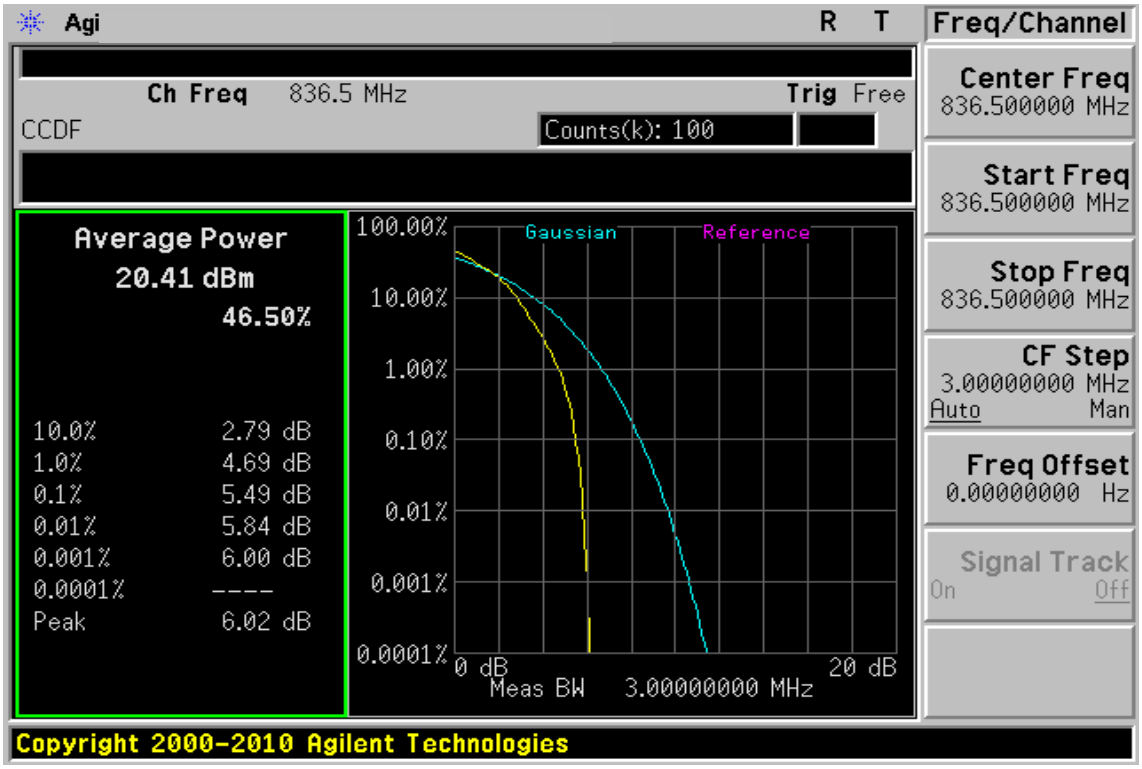

Figure 13-42: 3MHz BW LTE-Band 26(16QAM Number: 15 Offset: 0) Channel High

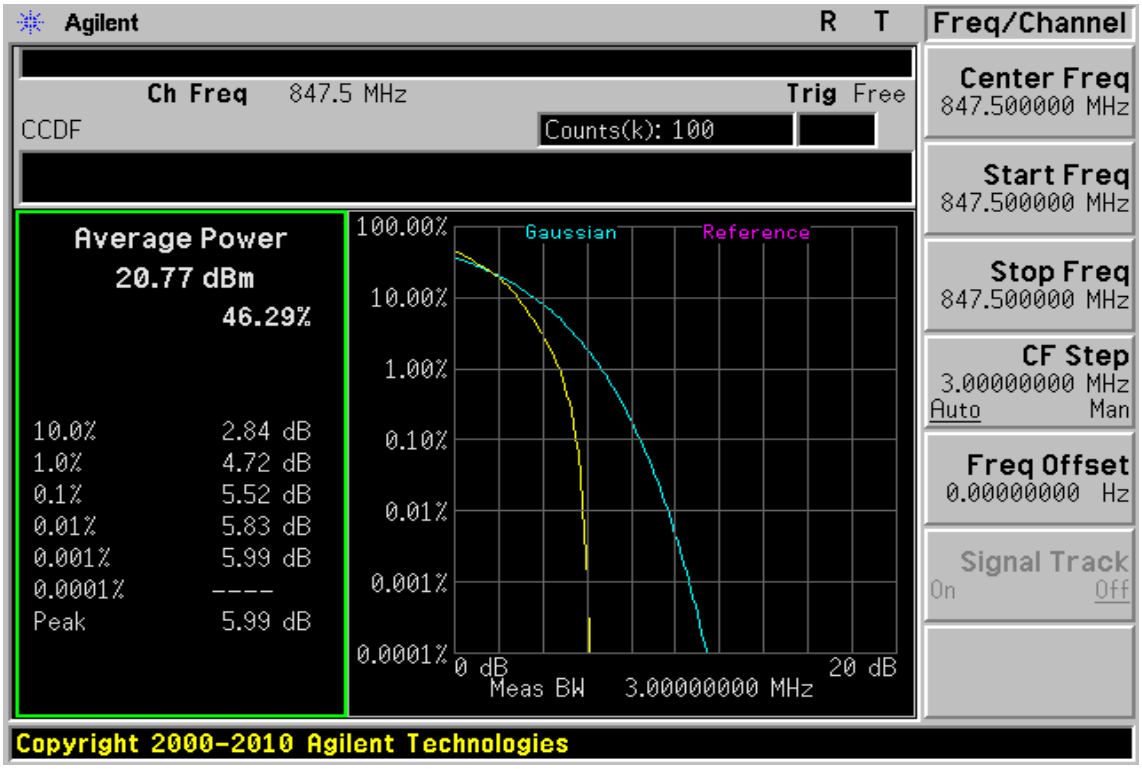

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Figure 13-43: 5MHz BW LTE-Band 26(16QAM Number: 25 Offset: 0) Channel Low

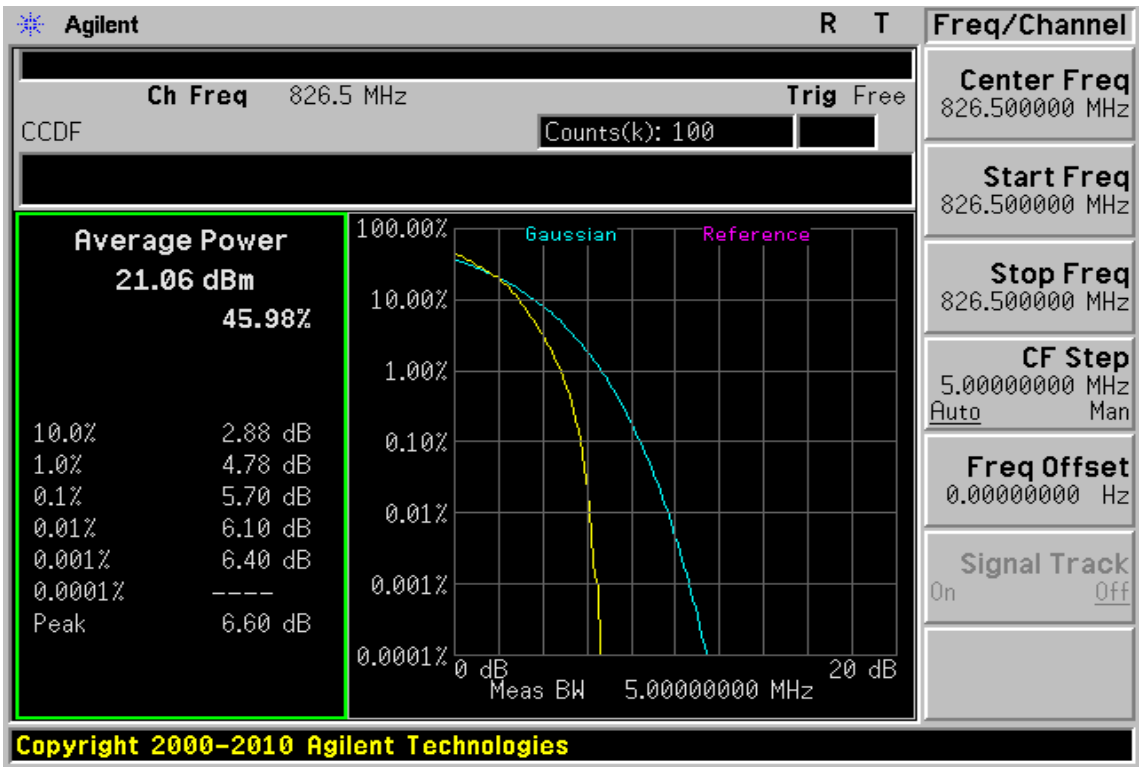

Figure 13-44: 5MHz BW LTE-Band 26(16QAM Number: 25 Offset: 0) Channel Mid

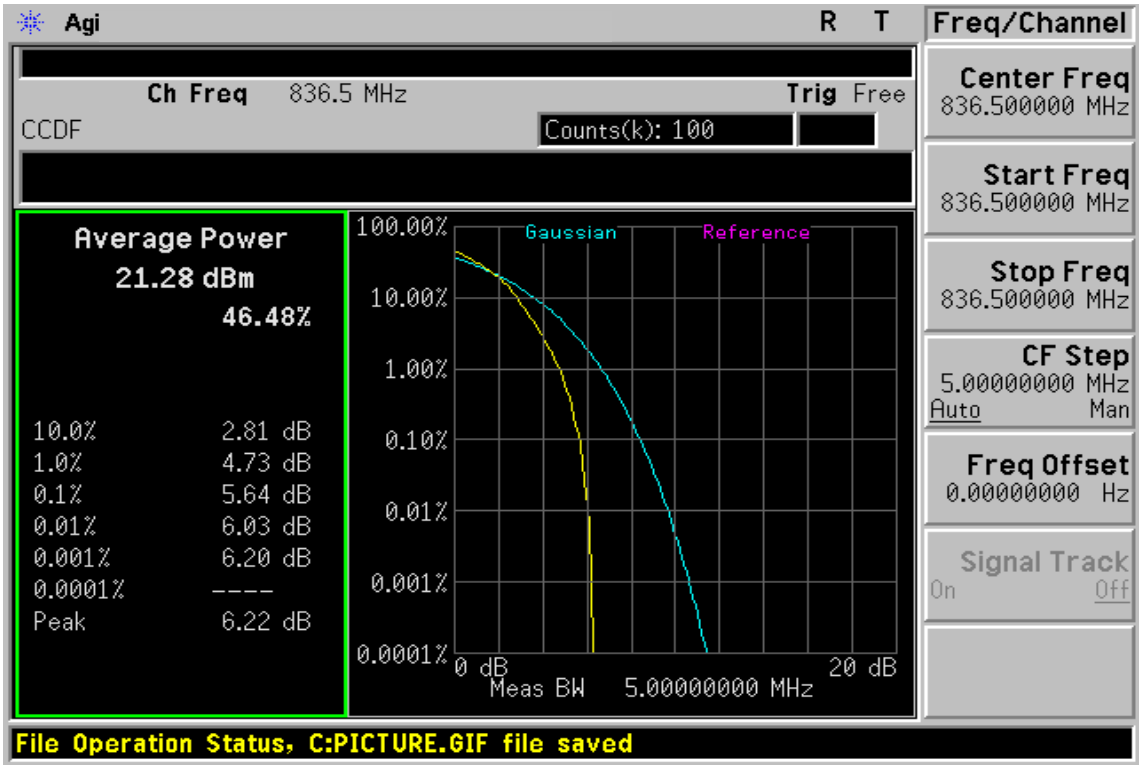

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Figure 13-45: 5MHz BW LTE-Band 26(16QAM Number: 25 Offset: 0) Channel High

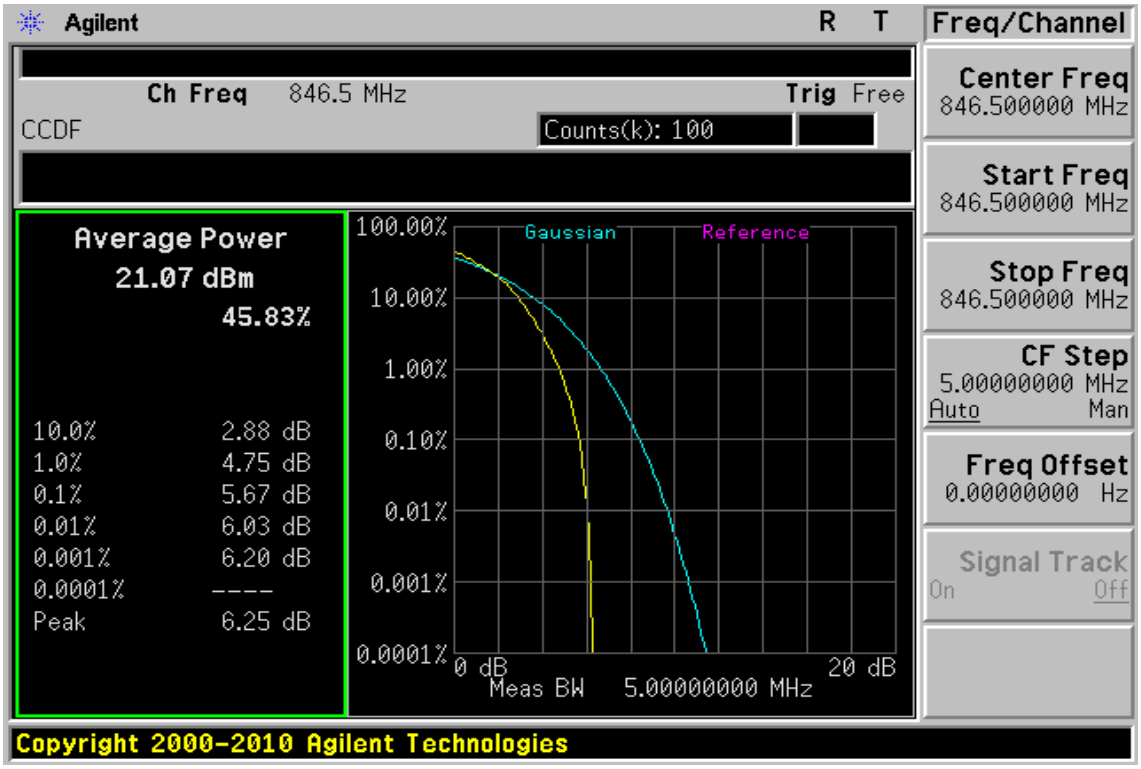

Figure 13-46: 10MHz BW LTE-Band 26(16QAM Number: 50 Offset: 0) Channel Low

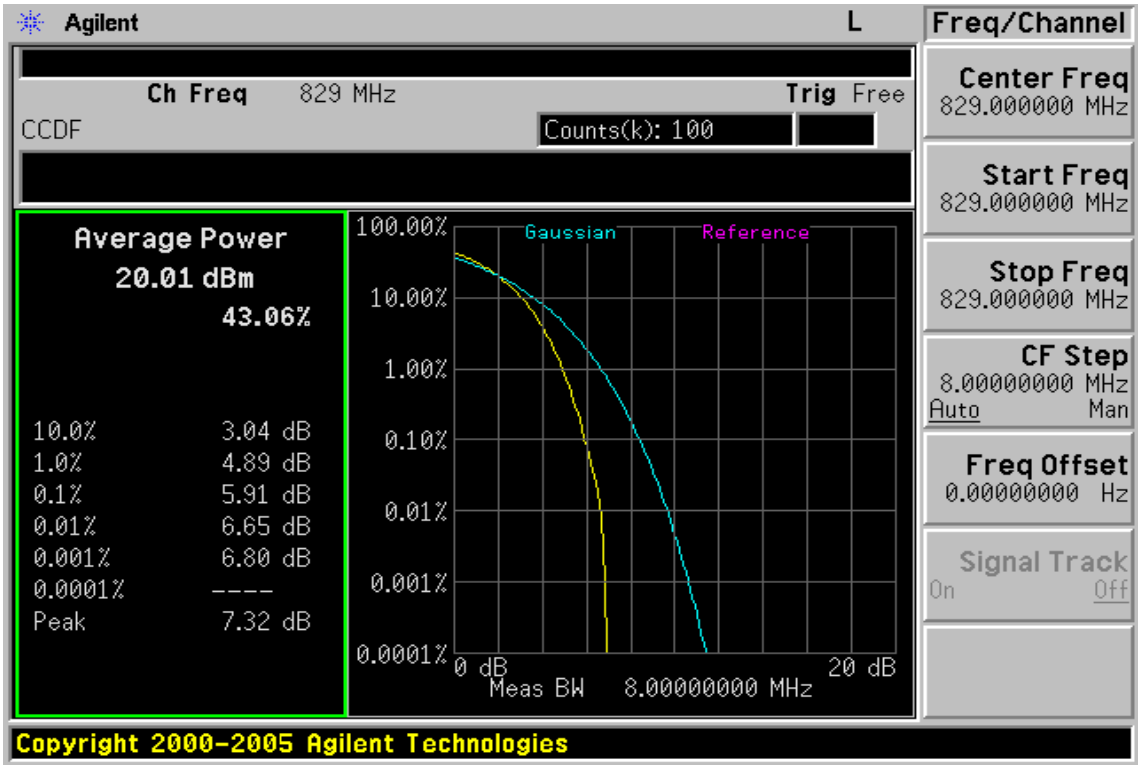

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Figure 13-47: 10MHz BW LTE-Band 26(16QAM Number: 50 Offset: 0) Channel Mid

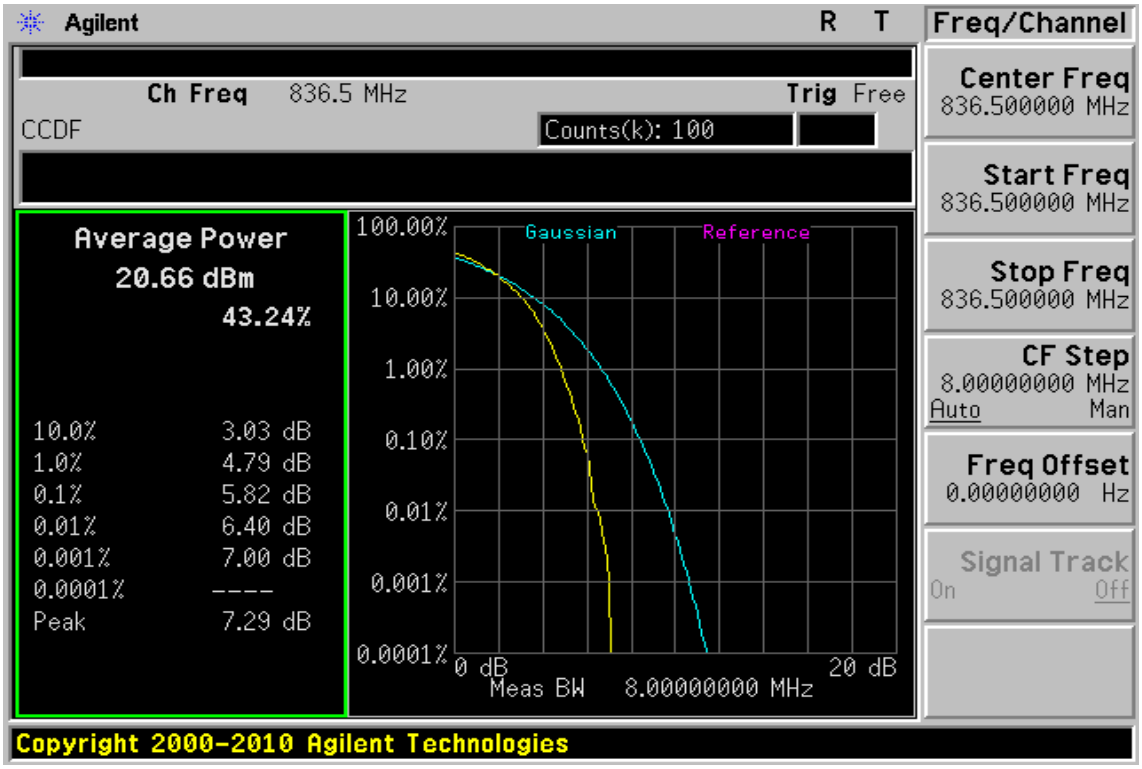

Figure 13-48: 10MHz BW LTE-Band 26(16QAM Number: 50 Offset: 0) Channel High

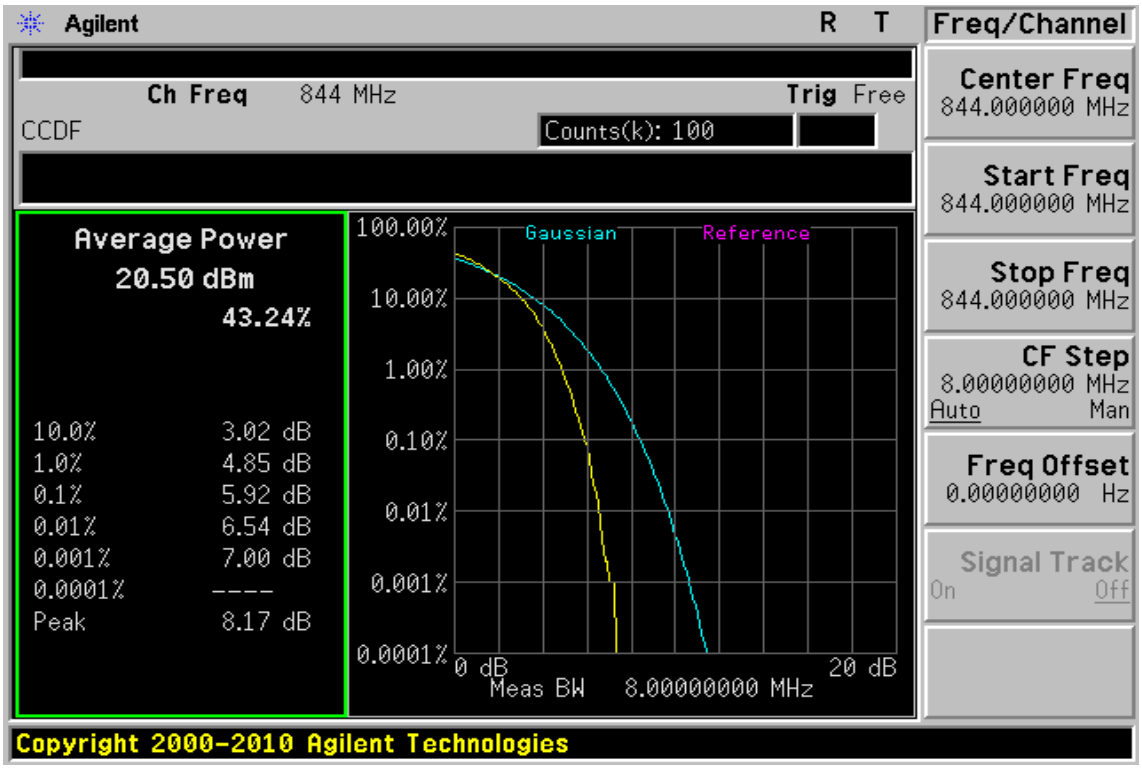

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Figure 13-49: 1.4MHz BW LTE-Band 26(16QAM Number: 6 Offset: 0) Channel Low

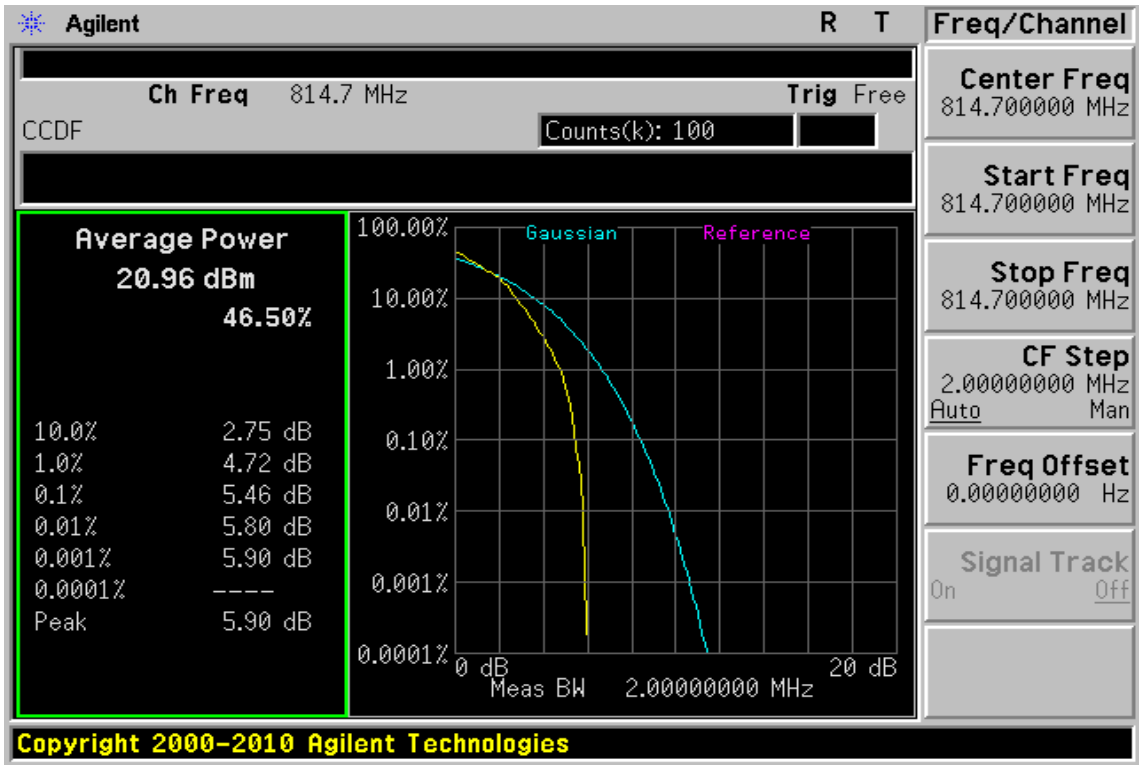

Figure 13-50: 1.4MHz BW LTE-Band 26(16QAM Number: 6 Offset: 0) Channel Mid

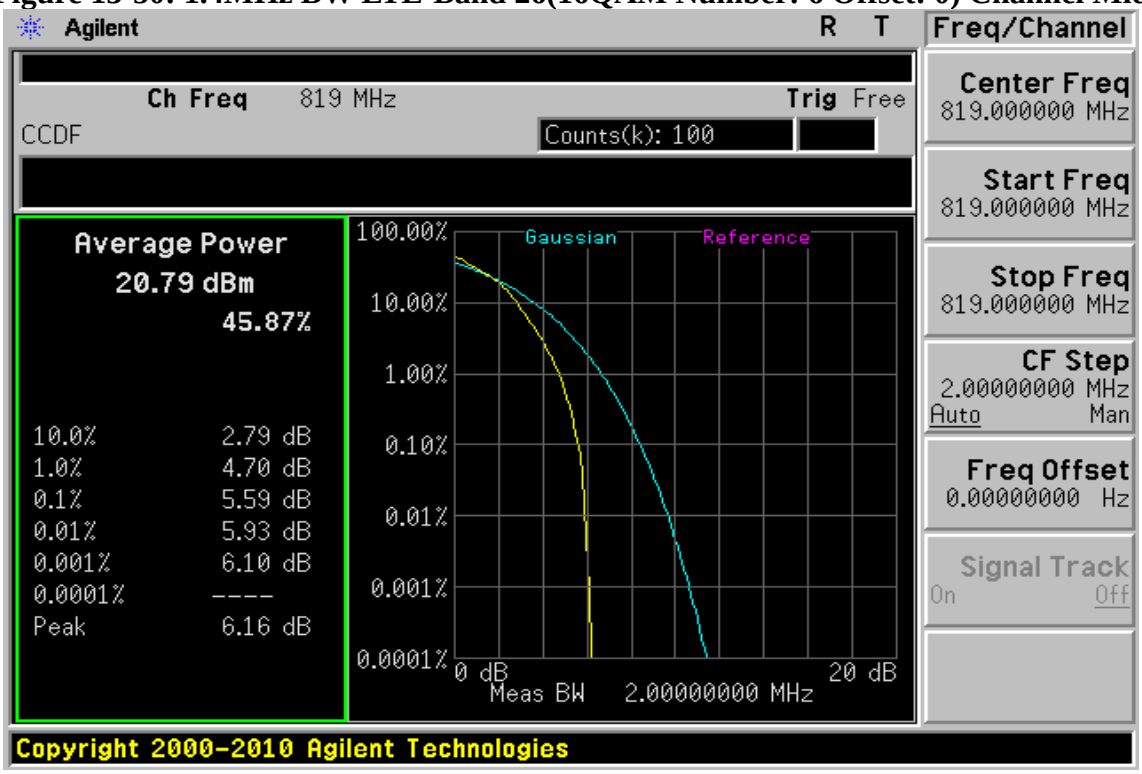

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Figure 13-51: 1.4MHz BW LTE-Band 26(16QAM Number: 6 Offset: 0) Channel High

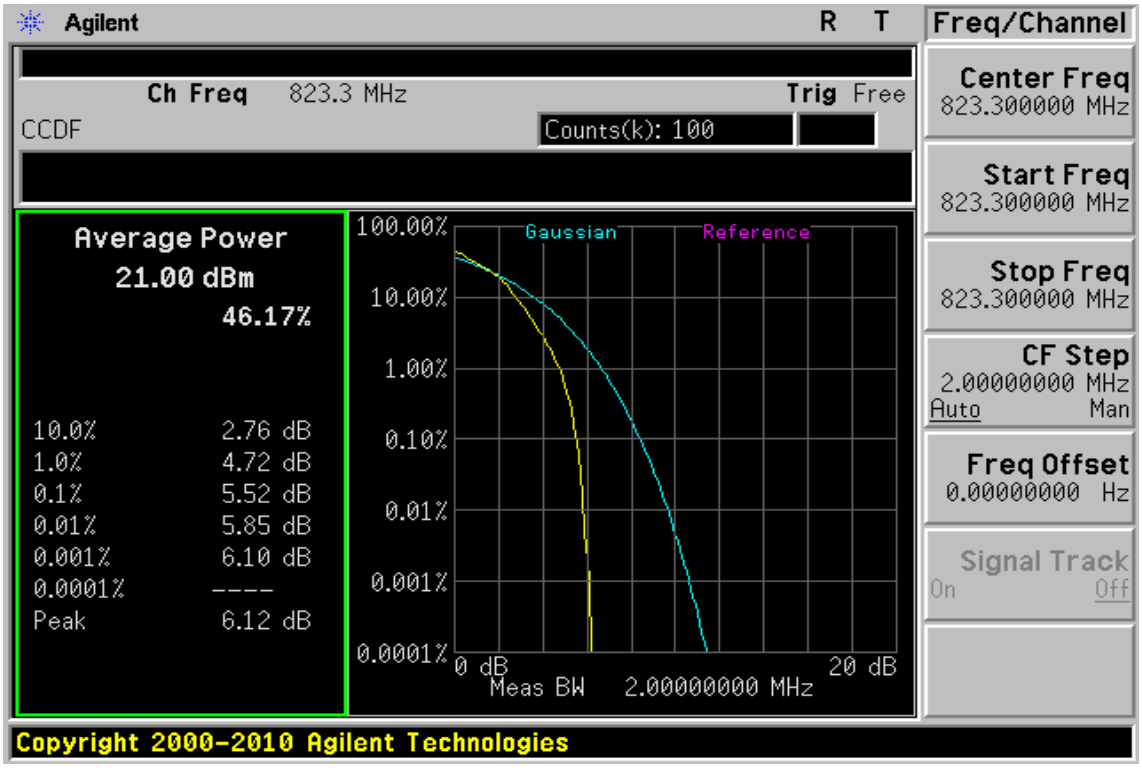

Figure 13-52: 3MHz BW LTE-Band 26(16QAM Number: 15 Offset: 0) Channel Low

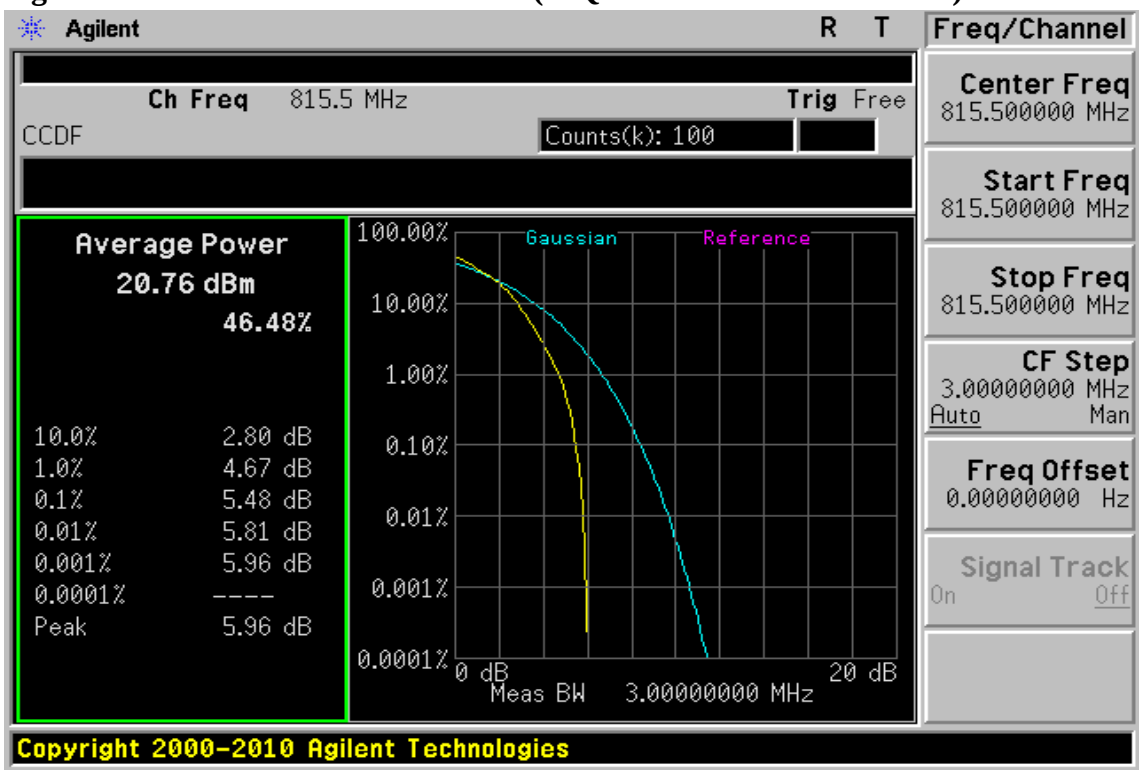

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Figure 13-53: 3MHz BW LTE-Band 26(16QAM Number: 15 Offset: 0) Channel Mid

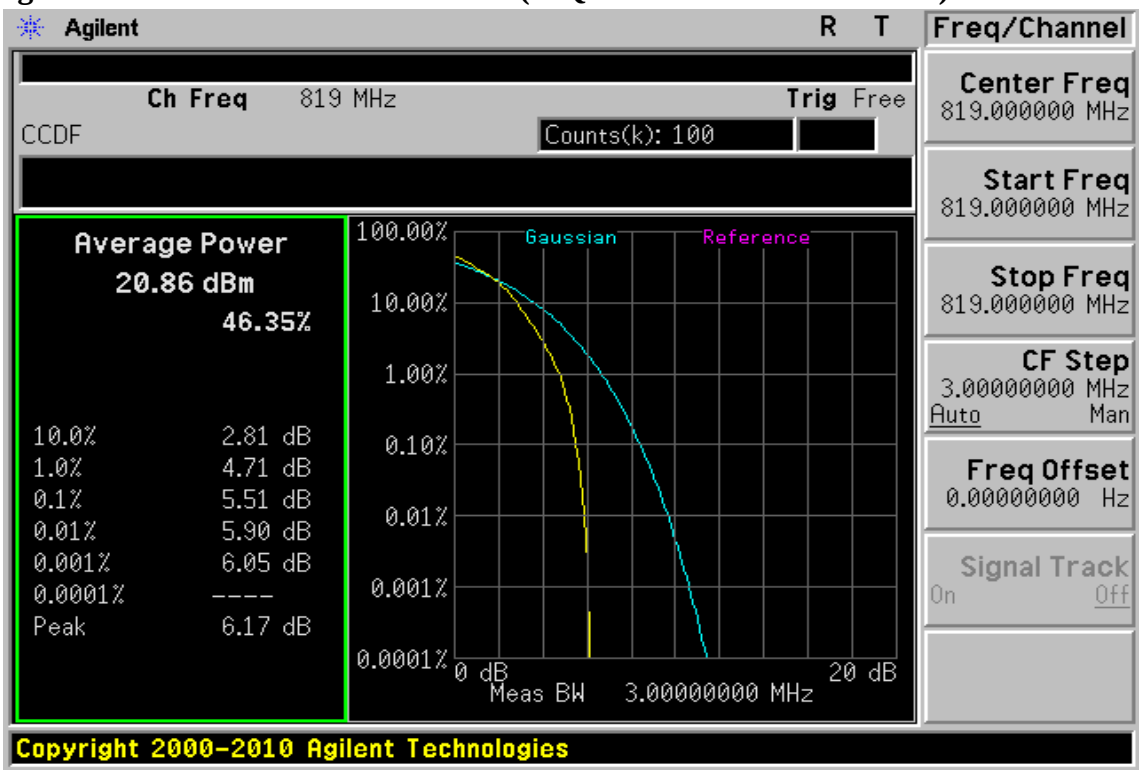

Figure 13-54: 3MHz BW LTE-Band 26(16QAM Number: 15 Offset: 0) Channel High

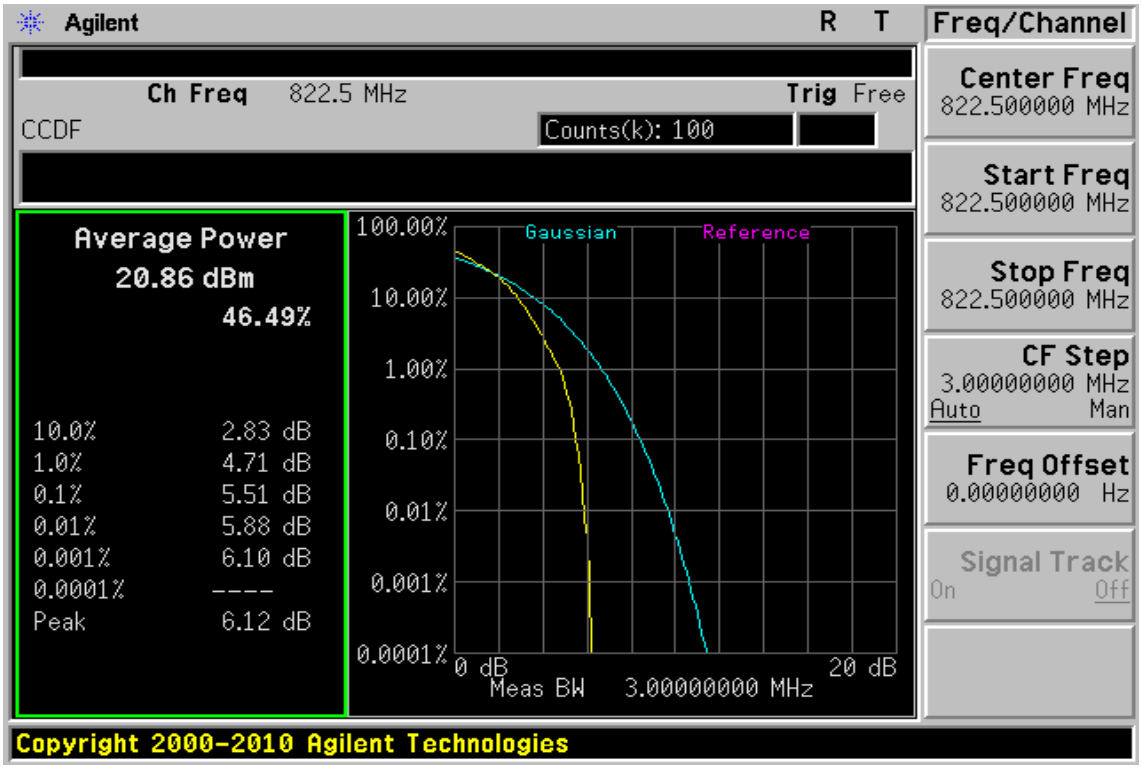

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Figure 13-55: 5MHz BW LTE-Band 26(16QAM Number: 25 Offset: 0) Channel Low

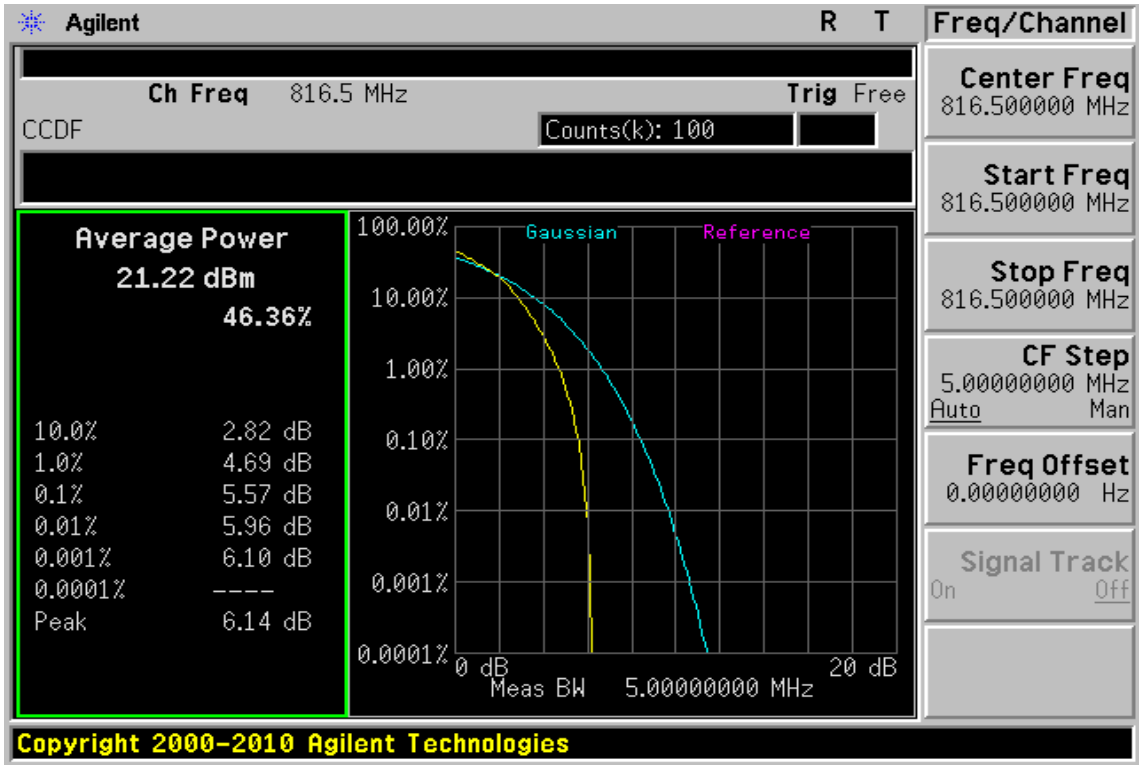

Figure 13-56: 5MHz BW LTE-Band 26(16QAM Number: 25 Offset: 0) Channel Mid

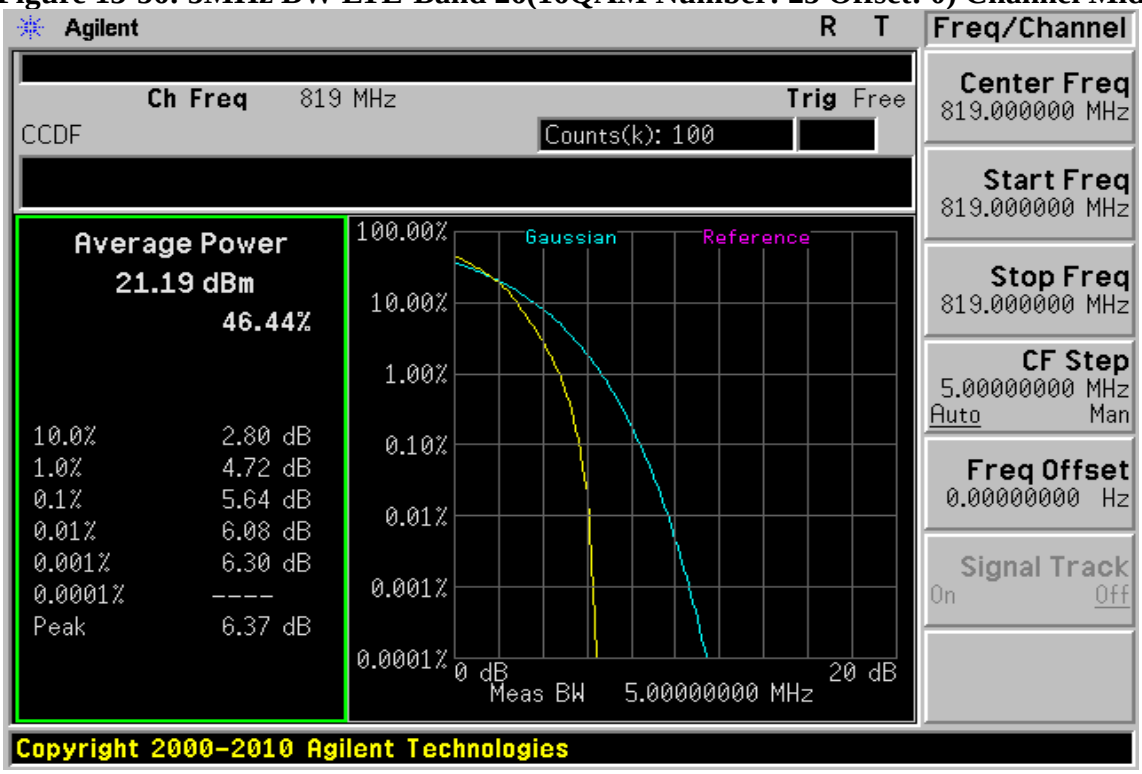

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Figure 13-57: 5MHz BW LTE-Band 26(16QAM Number: 25 Offset: 0) Channel High

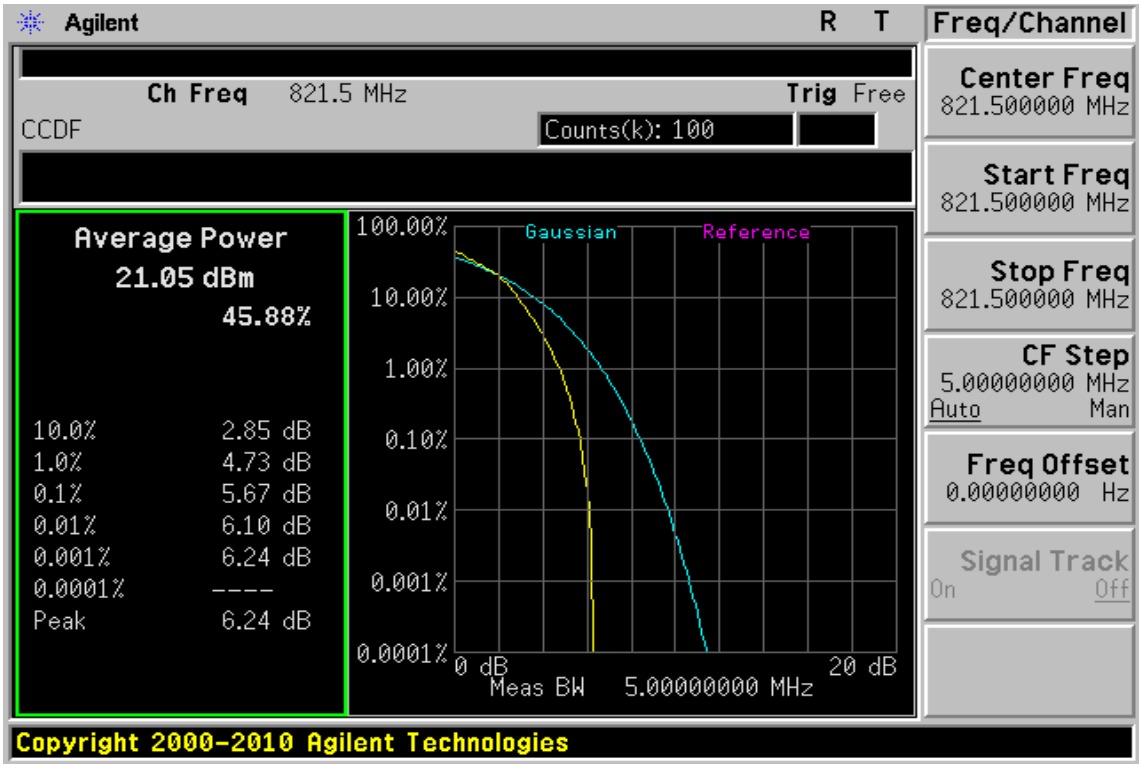

Figure 13-58: 10MHz BW LTE-Band 26(16QAM Number: 50 Offset: 0) Channel Mid

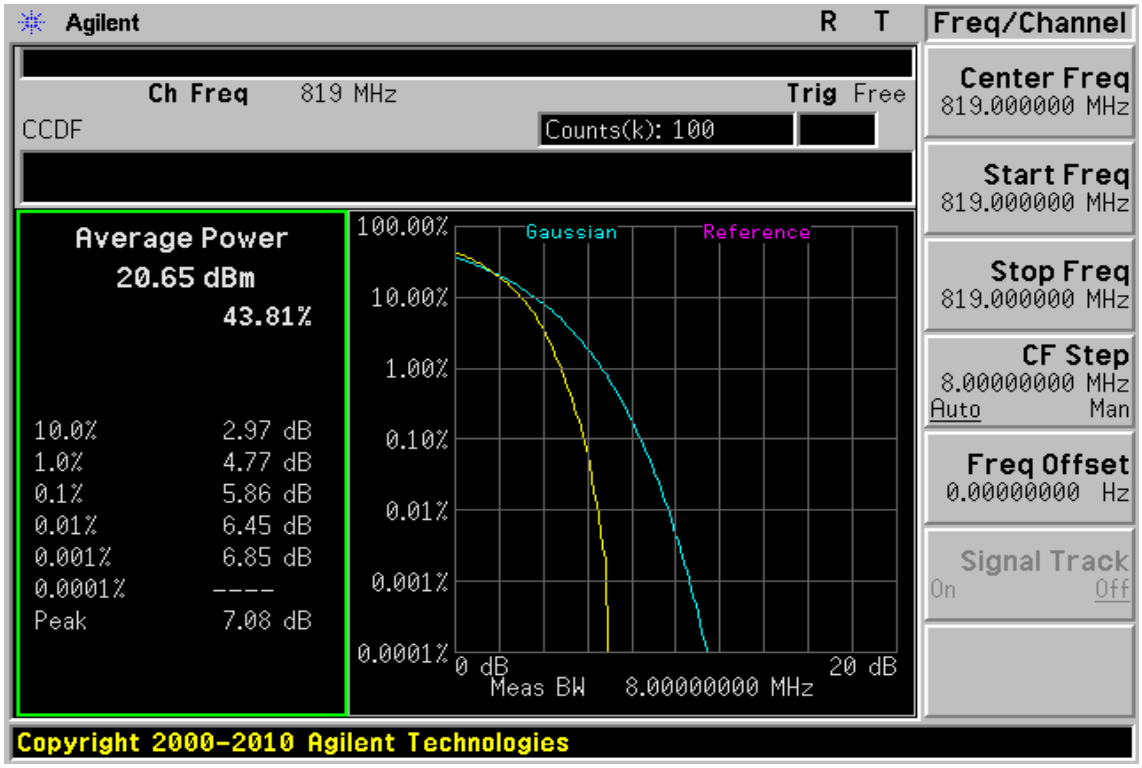

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Figure 13-59: 5MHz BW LTE-Band 41(16QAM Number: 25 Offset: 0) Channel Low

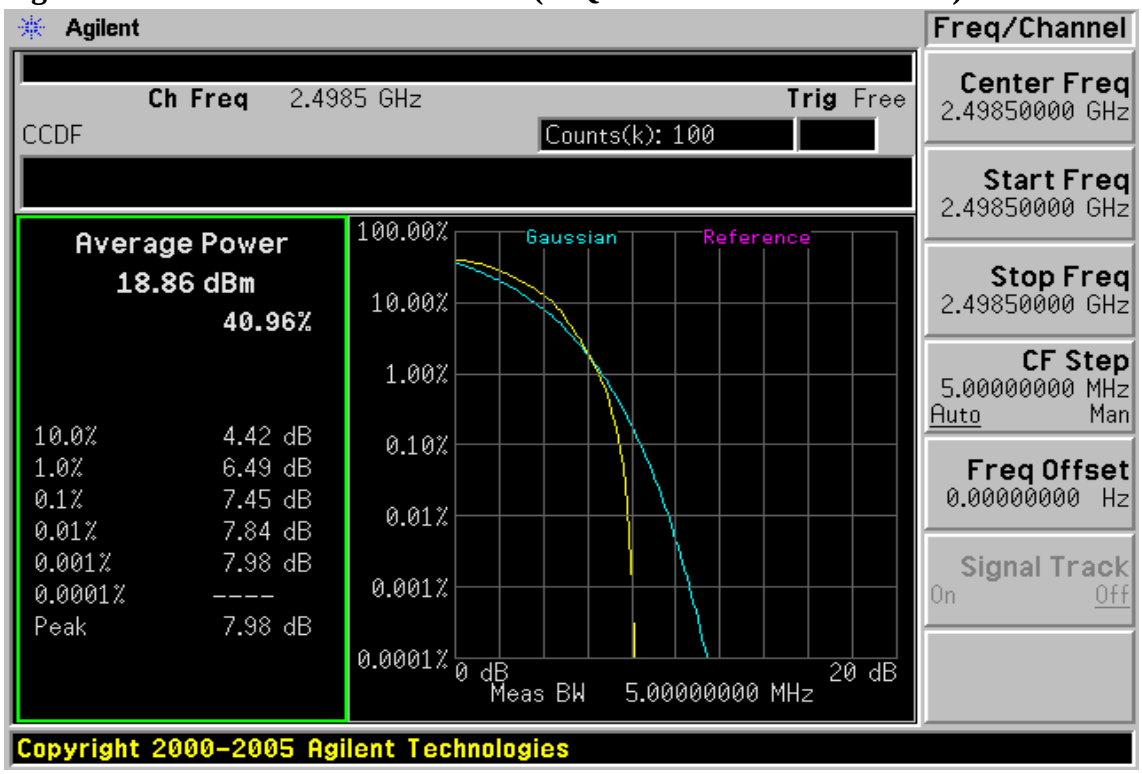

Figure 13-60: 5MHz BW LTE-Band 41(16QAM Number: 25 Offset: 0) Channel Mid

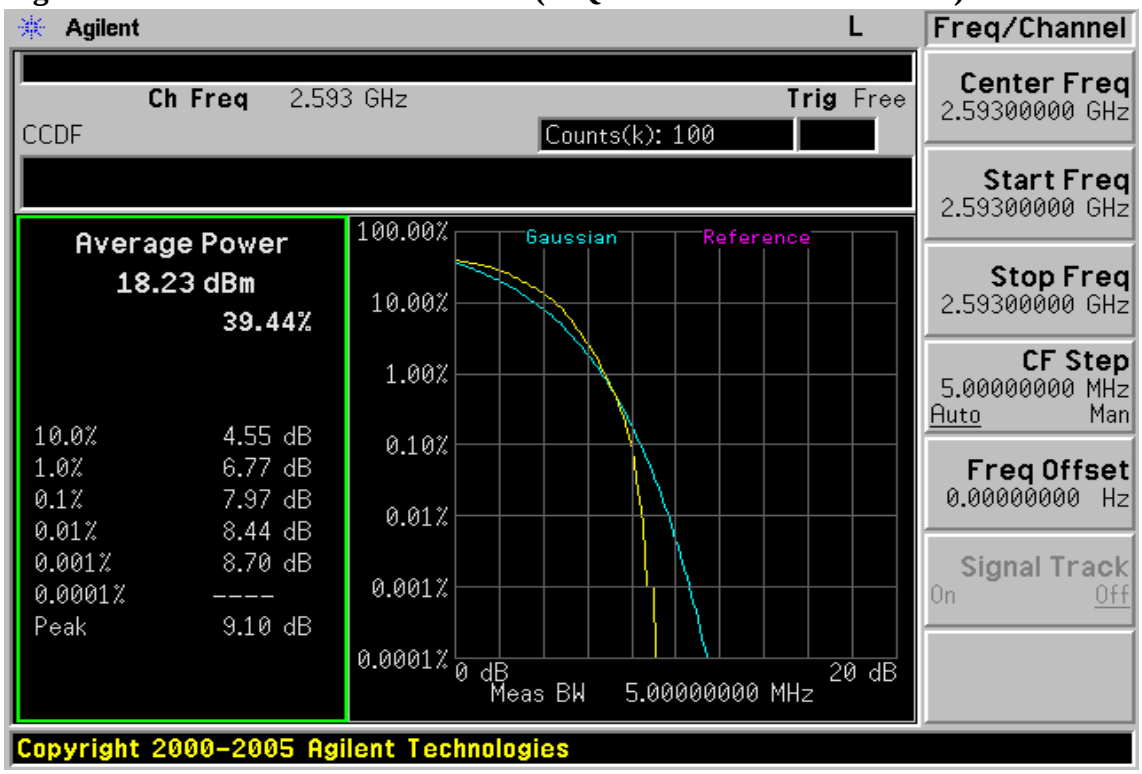

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Figure 13-61: 5MHz BW LTE-Band 41(16QAM Number: 25 Offset: 0)) Channel High

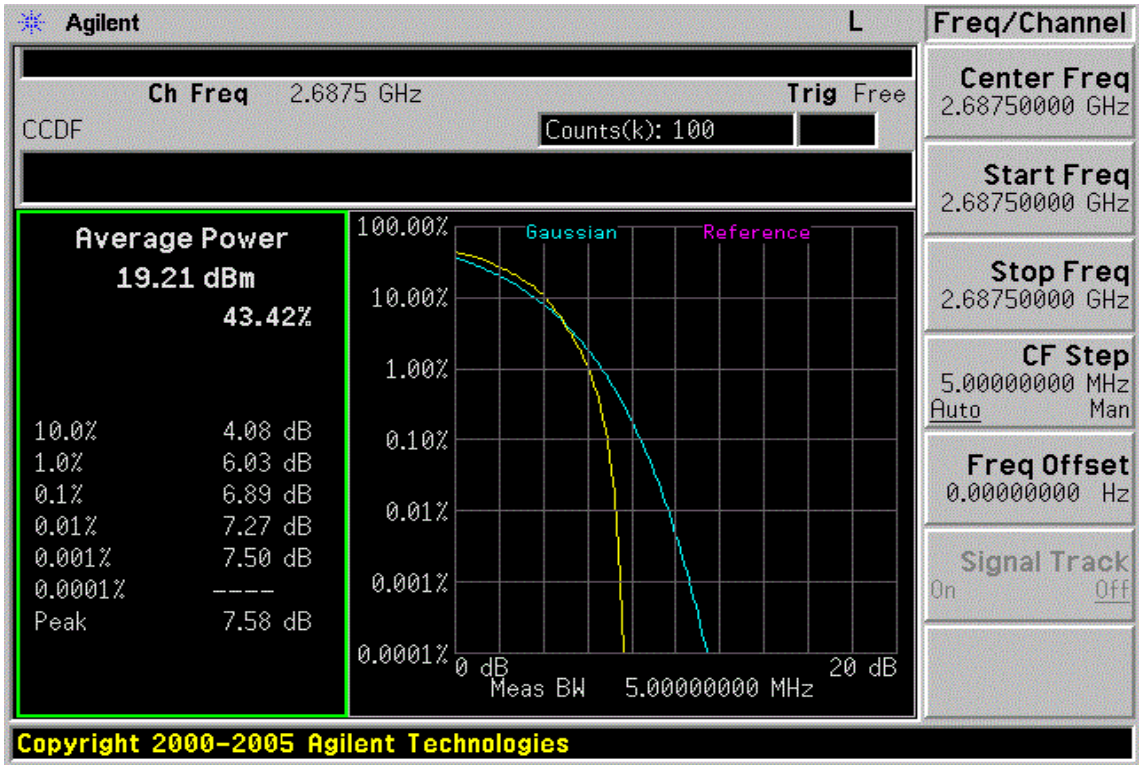

Figure 13-62: 10MHz BW LTE-Band 41(16QAM Number: 50 Offset: 0) Channel Low

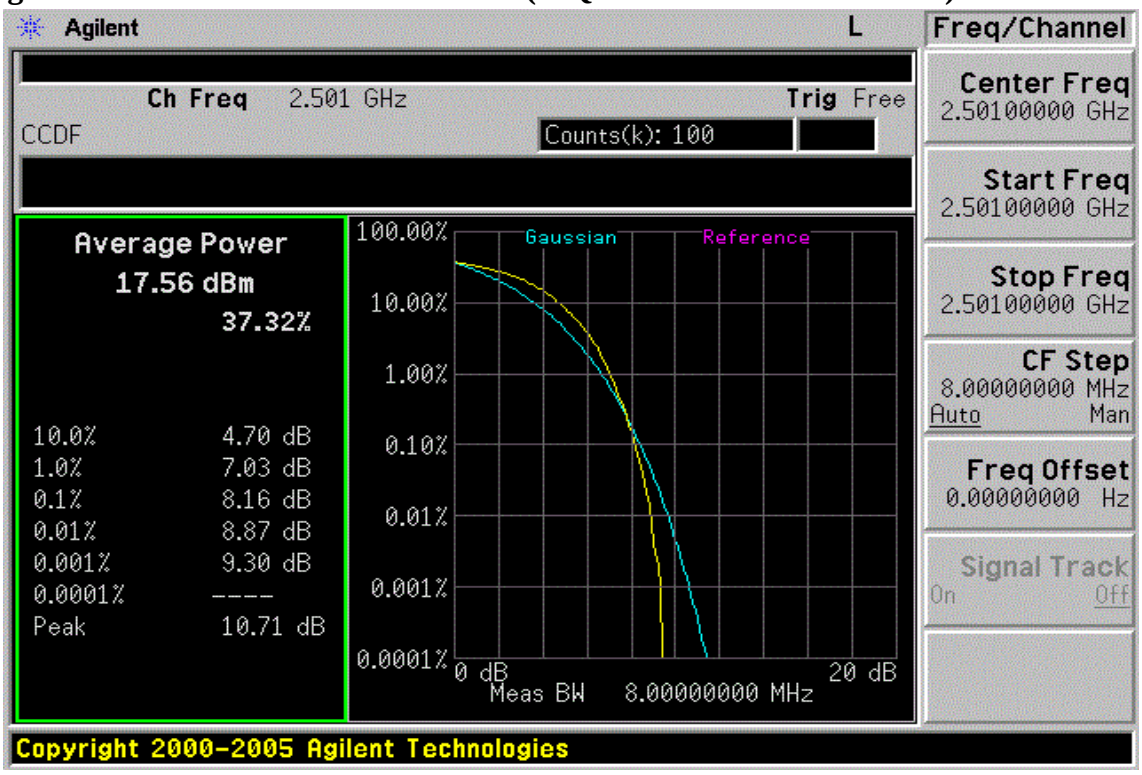

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Figure 13-63: 10MHz BW LTE-Band 41(16QAM Number: 50 Offset: 0) Channel Mid

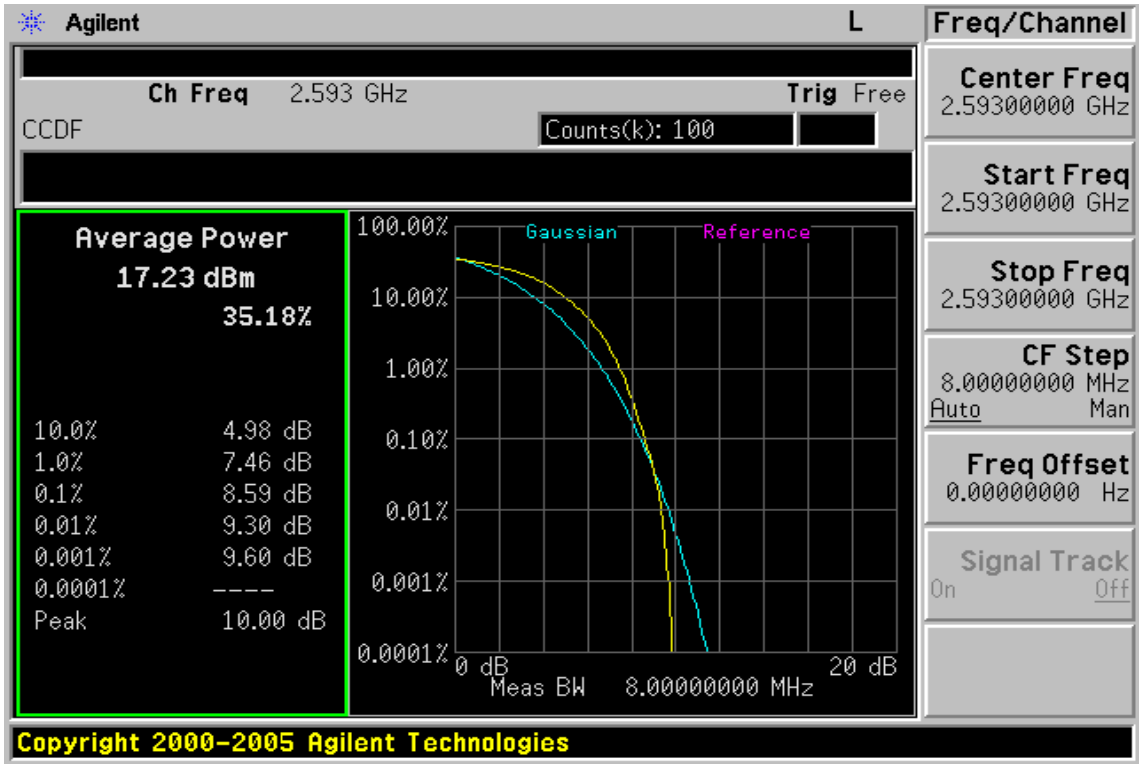

Figure 13-64: 10MHz BW LTE-Band 41(16QAM Number: 50 Offset: 0) Channel High

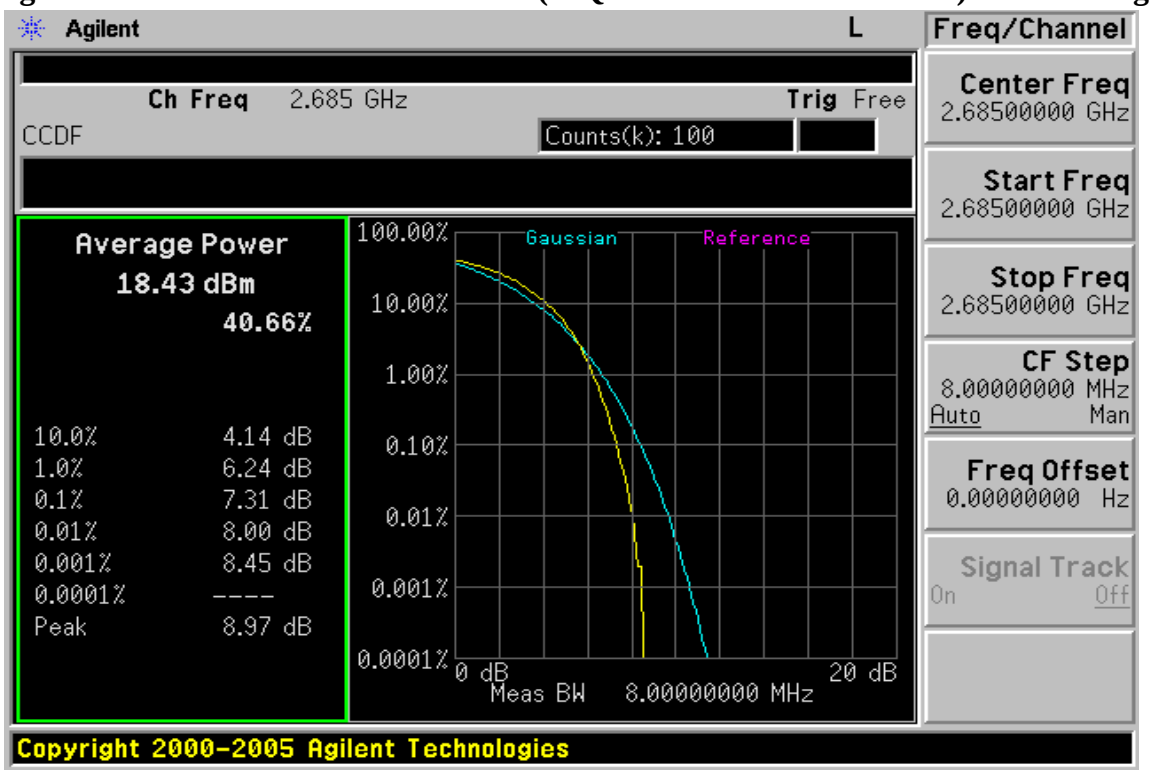

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Figure 13-65: 15MHz BW LTE-Band 41(16QAM Number: 75 Offset: 0) Channel Low

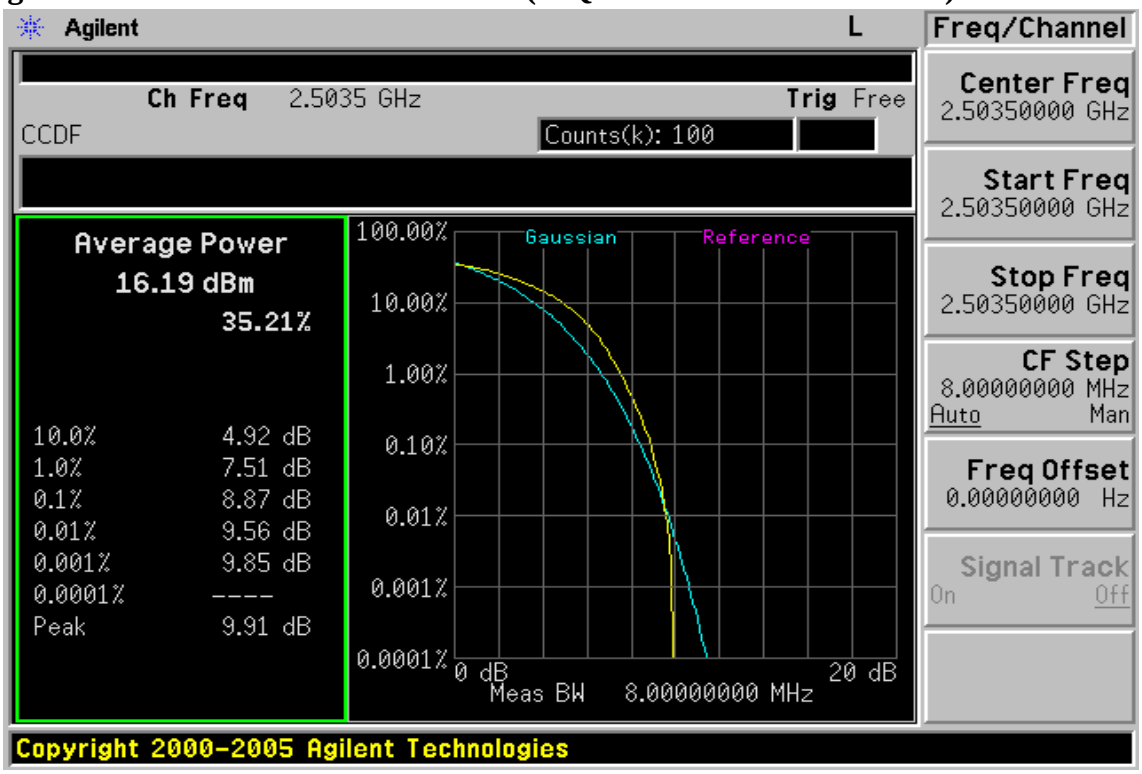

Figure 13-66: 15MHz BW LTE-Band 41(16QAM Number: 75 Offset: 0) Channel Mid

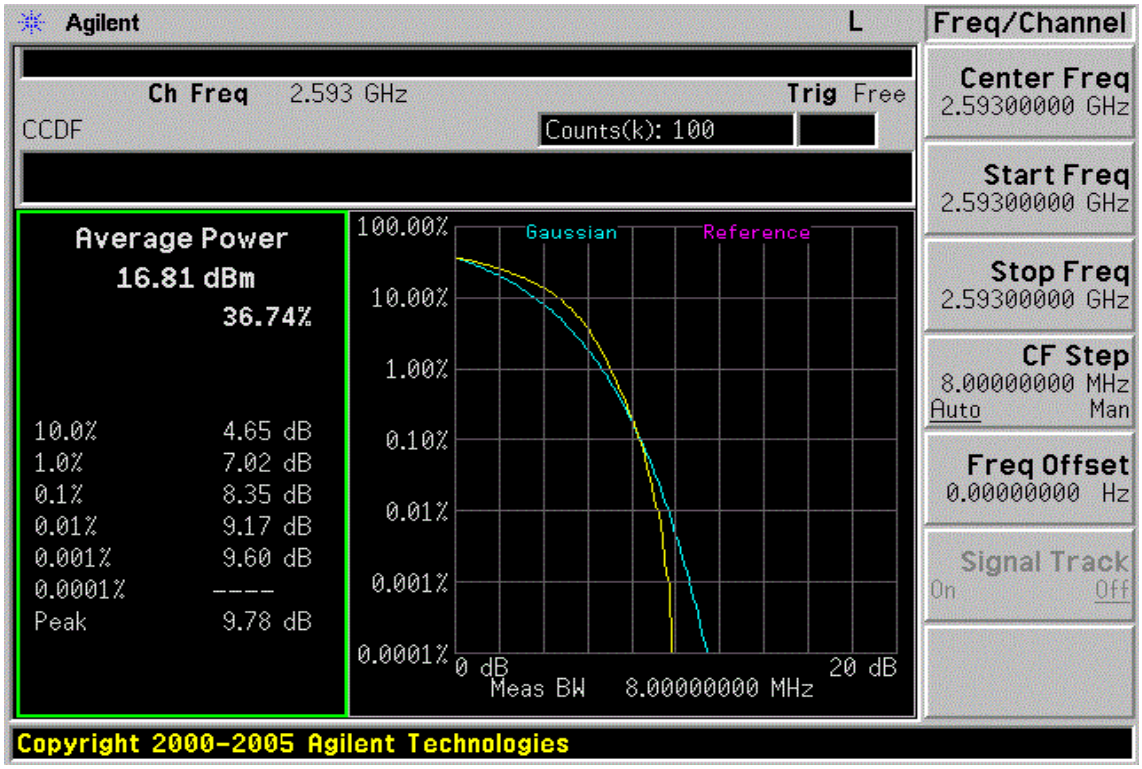

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Figure 13-67: 15MHz BW LTE-Band 41(16QAM Number: 75 Offset: 0) Channel High

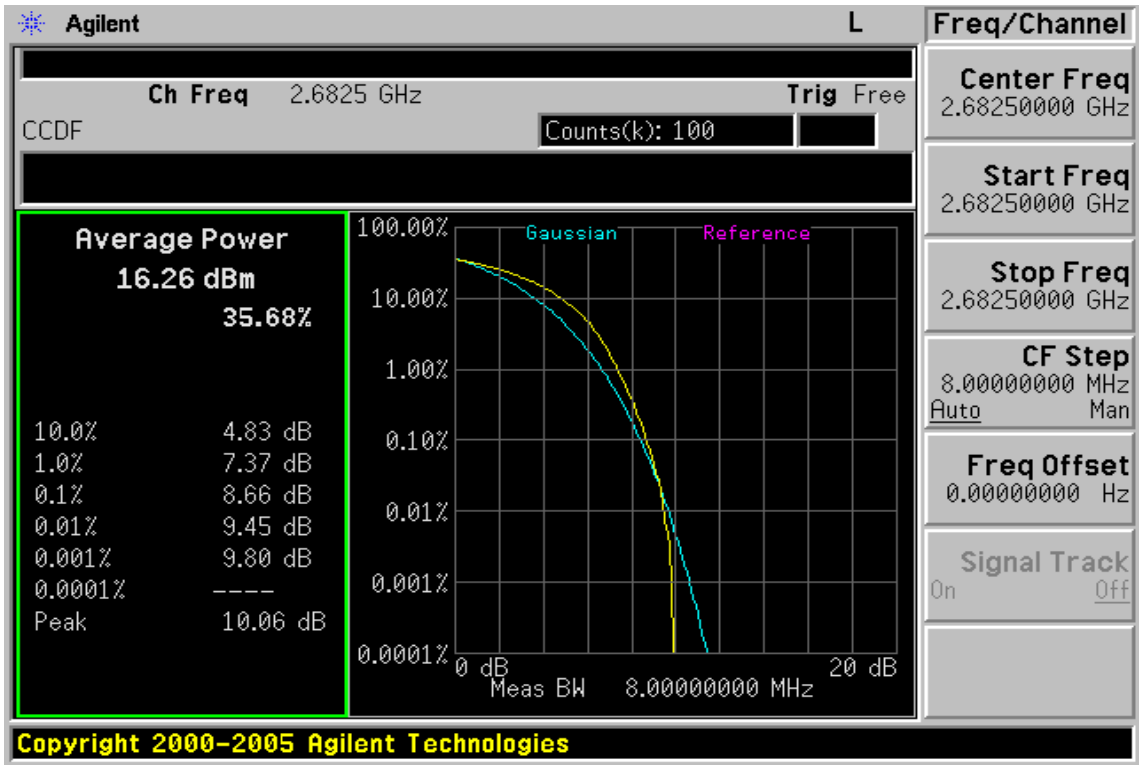

Figure 13-68: 20MHz BW LTE-Band 41(16QAM Number: 100 Offset: 0) Channel Low

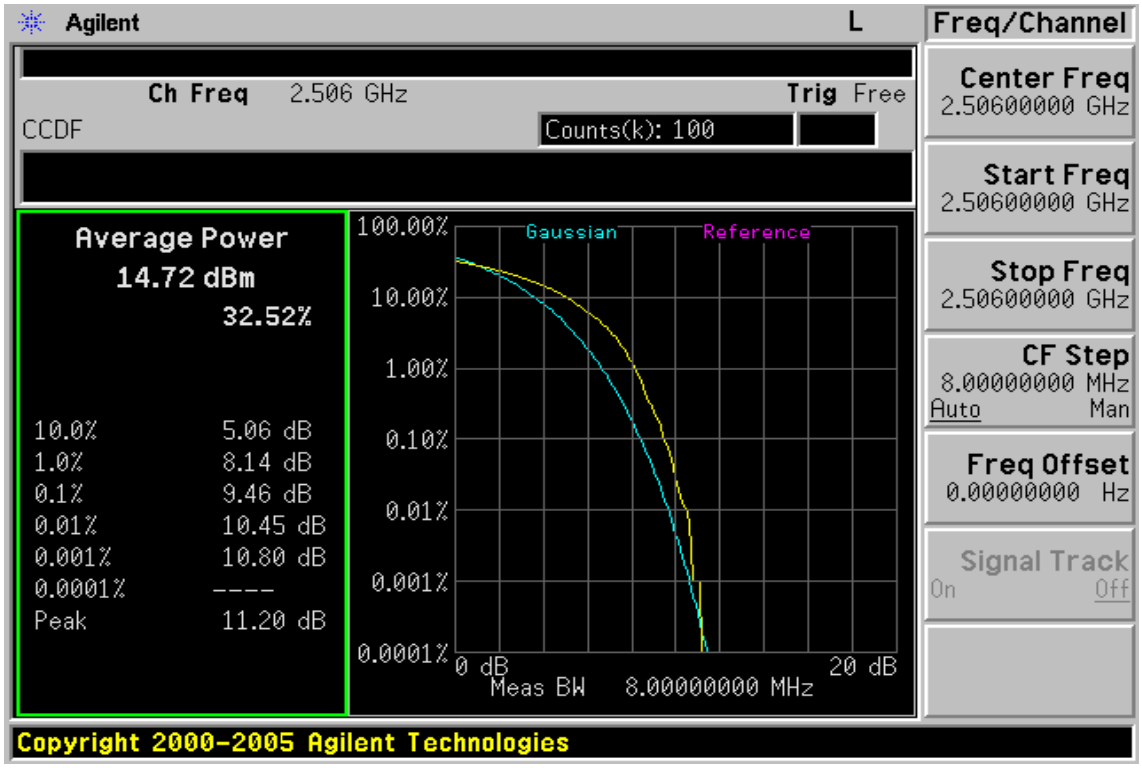

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Figure 13-69: 20MHz BW LTE-Band 41(16QAM Number: 100 Offset: 0) Channel Mid

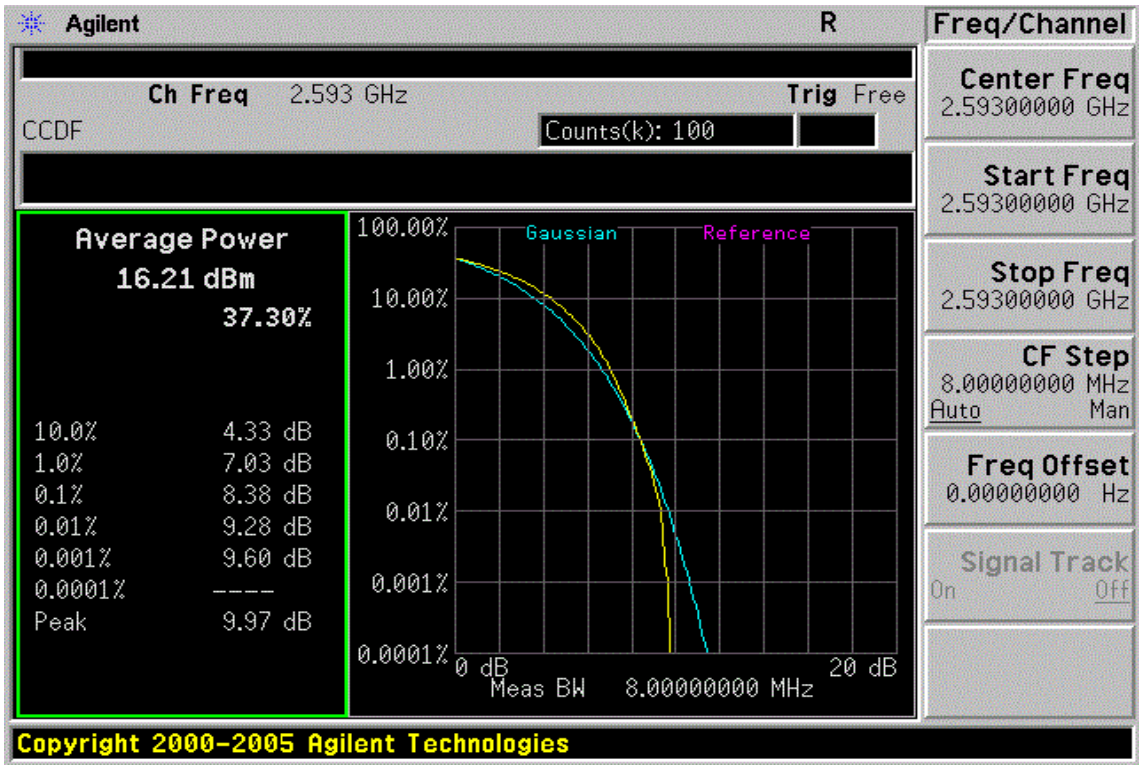
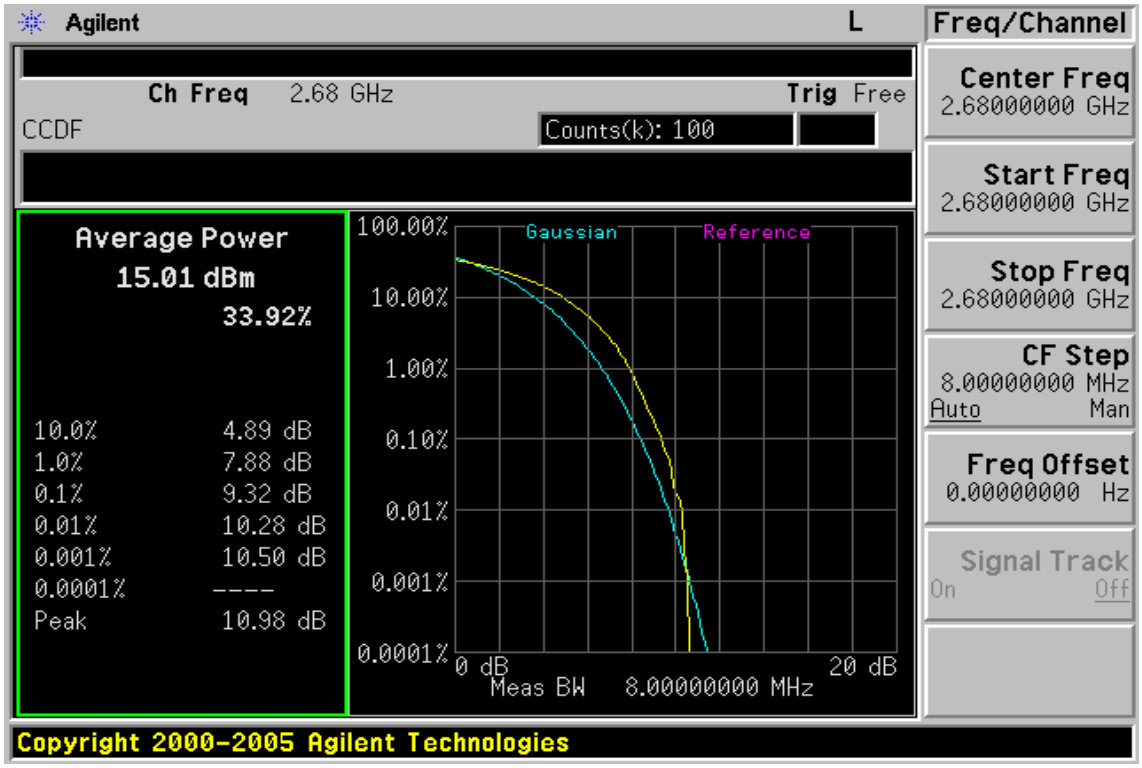


Figure 13-70: 20MHz BW LTE-Band 41(16QAM Number: 100 Offset: 0) Channel High



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14. EMISSION MASK

14.1. Standard Applicable:

FCC: §22.359, §24.238 and § 90.691

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

FCC §27.53(m) (4) (6)

For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in § 27.53(m)(6). In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

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

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

Refer to section 2.4 in this report

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Reference to KDB 971168 D01 v02r01

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

For each band edge measurement:

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

14.3. Measurement Equipment Used:

Refer to section 2.4 in this report

14.4. Measurement Result:

Refer to next page for plot results

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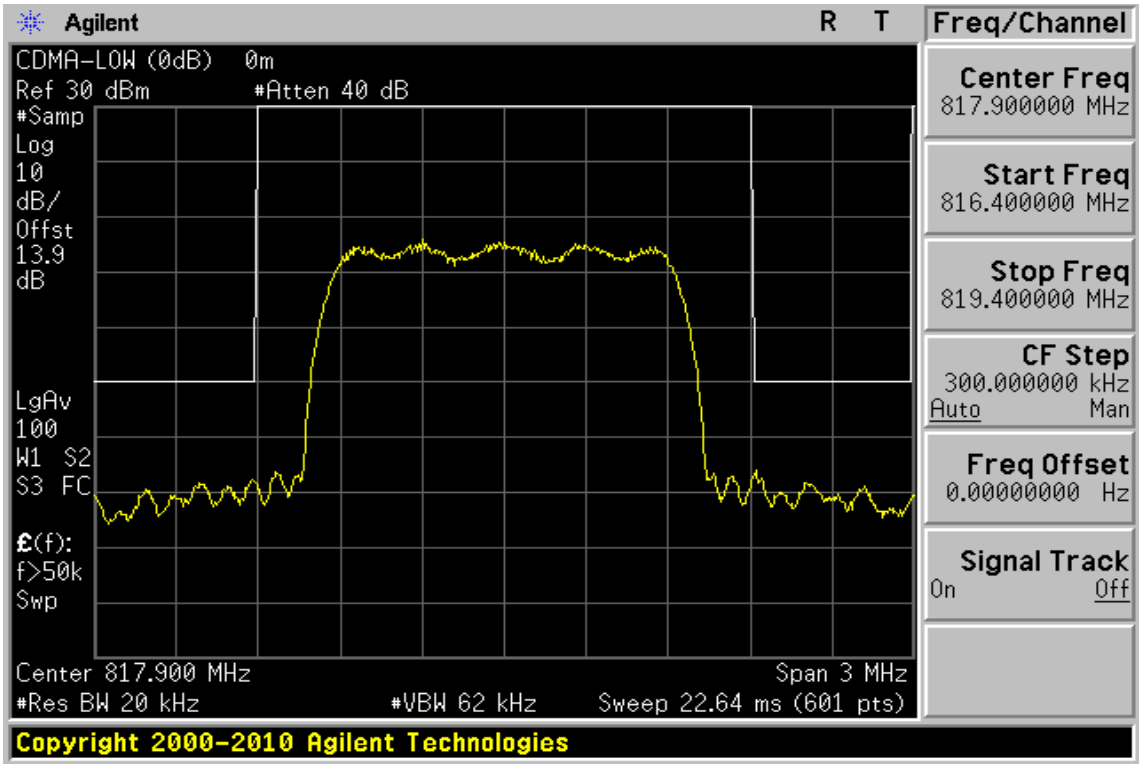
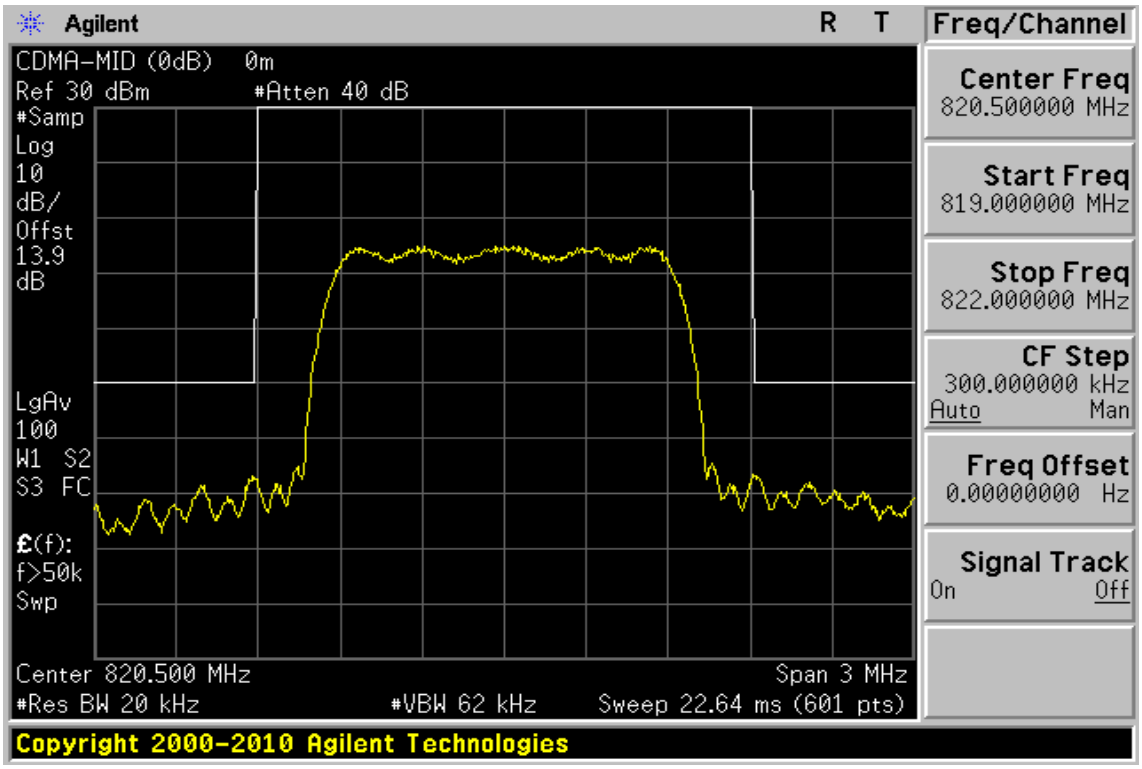
CDMA2000 BC10

Channel Low



Channel Mid



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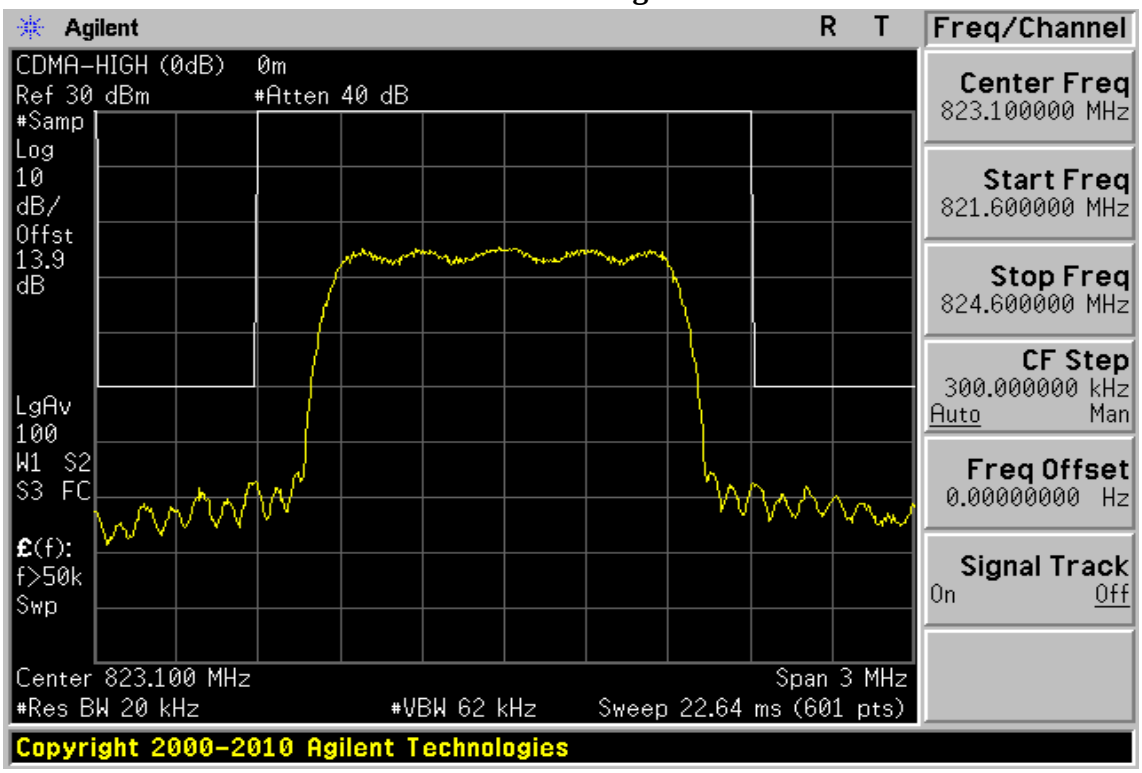
Channel High



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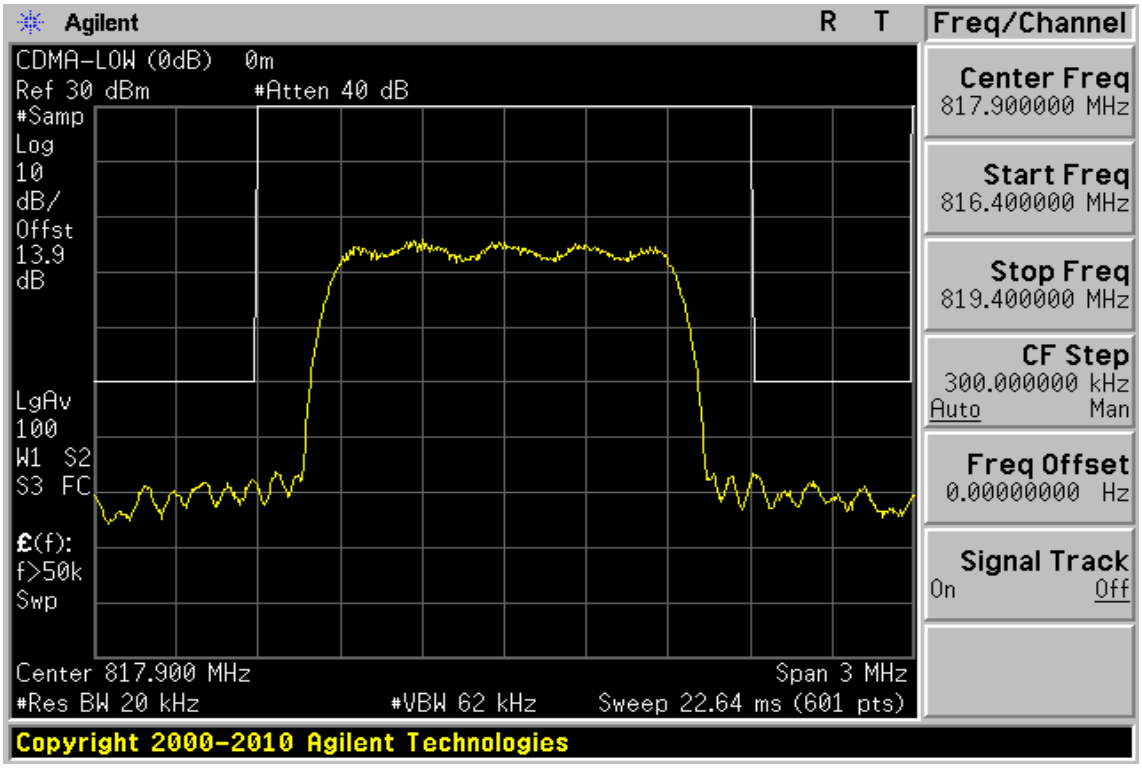
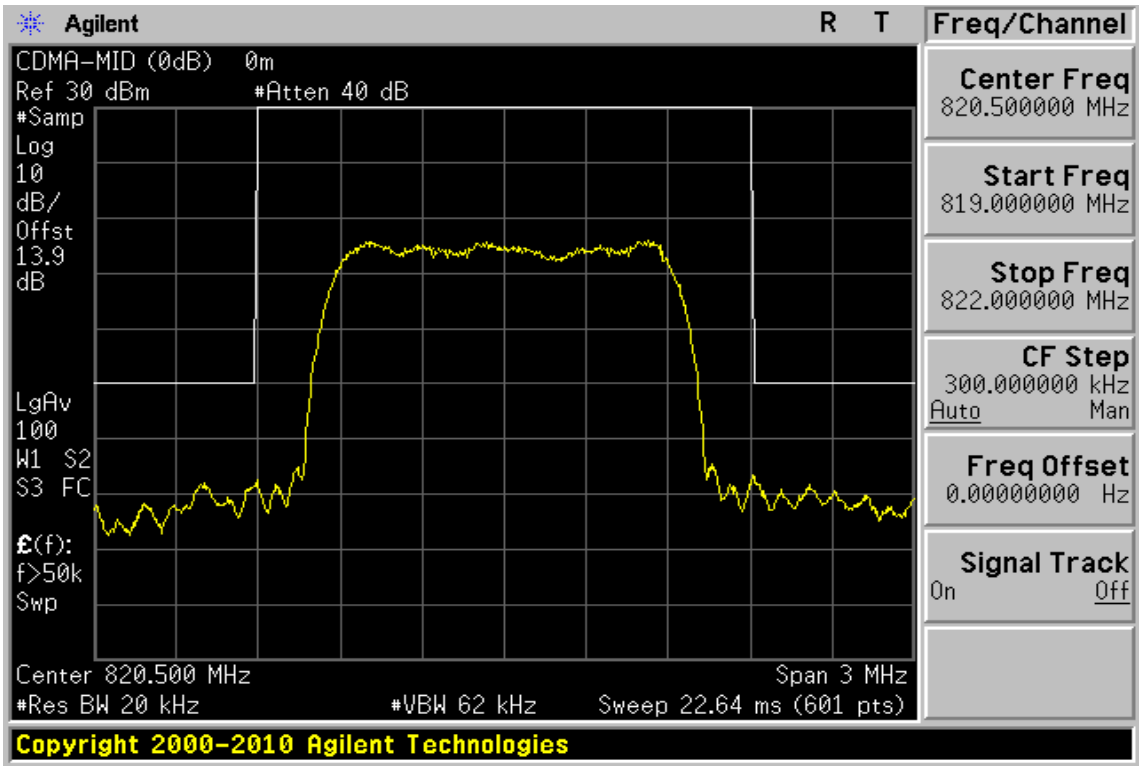
CDMA2000 EVDO BC10

Channel Low



Channel Mid



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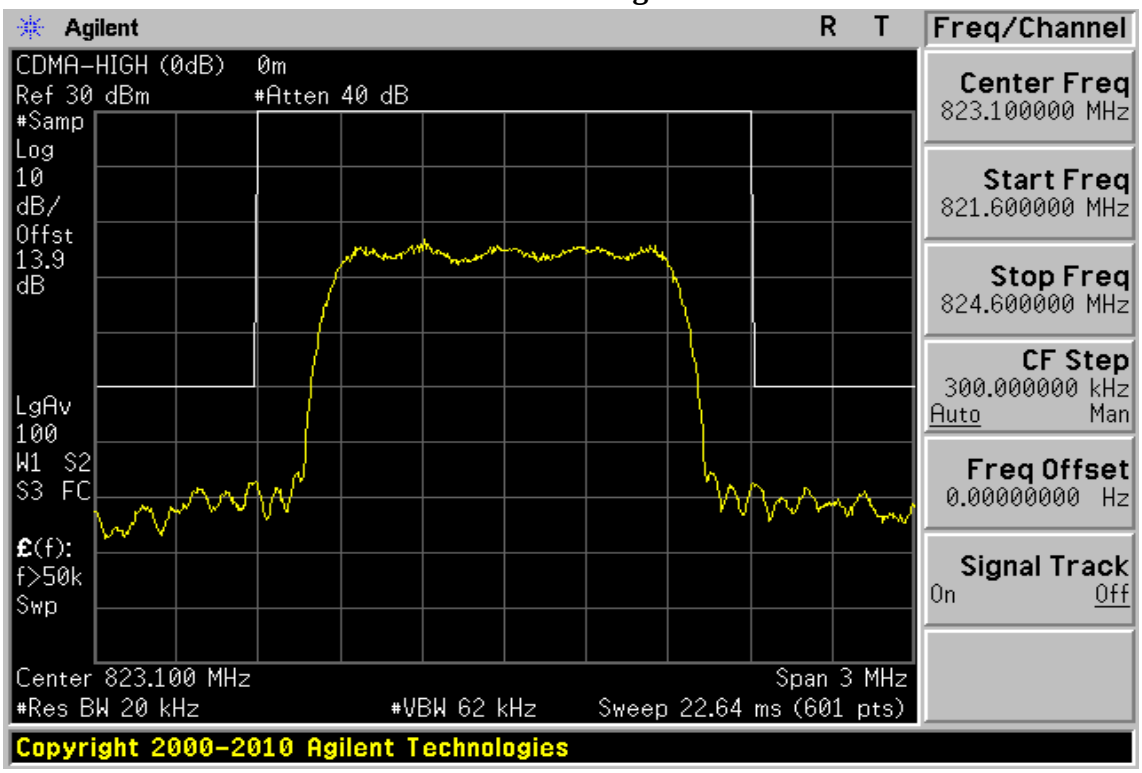
Channel High



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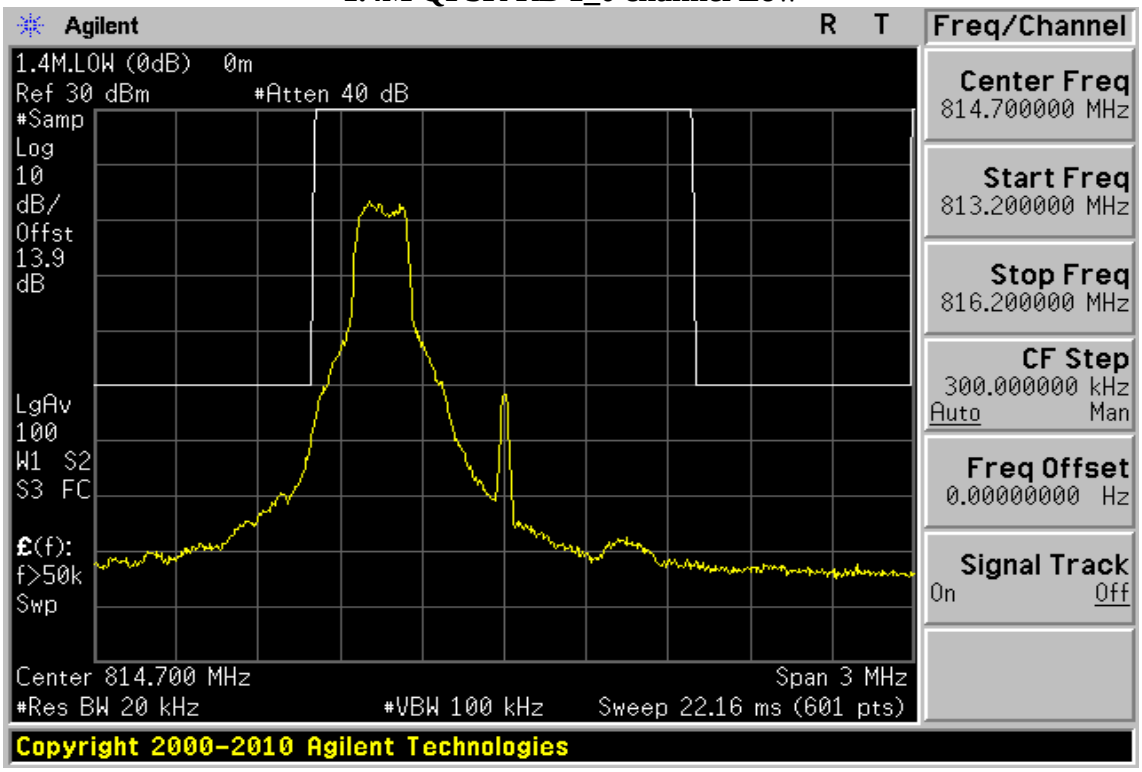
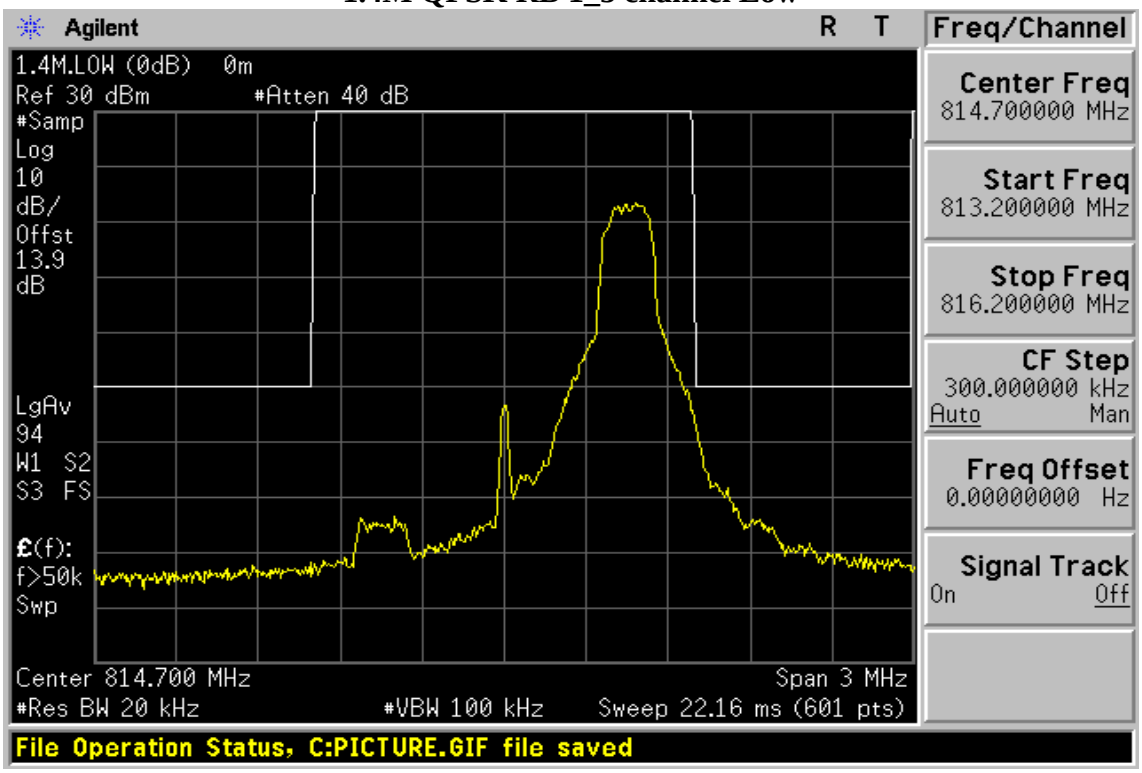
LTE Band 26

1.4M QPSK RB 1_0 channel Low



1.4M QPSK RB 1_5 channel Low



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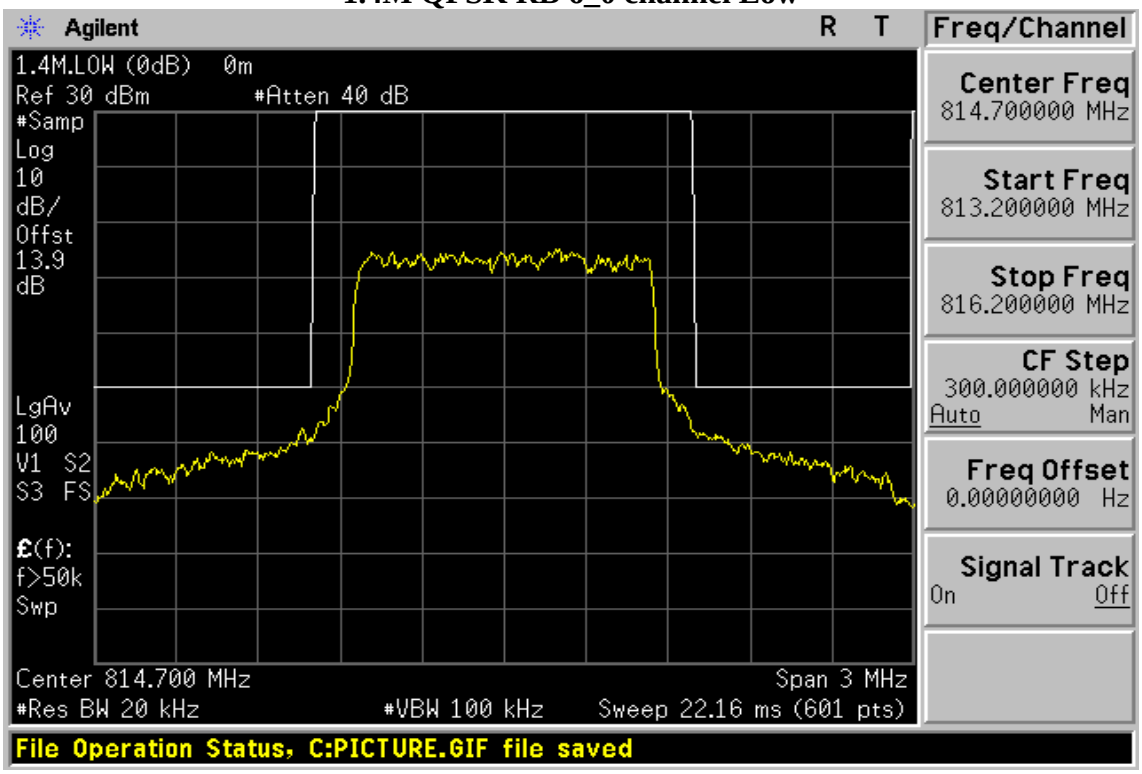
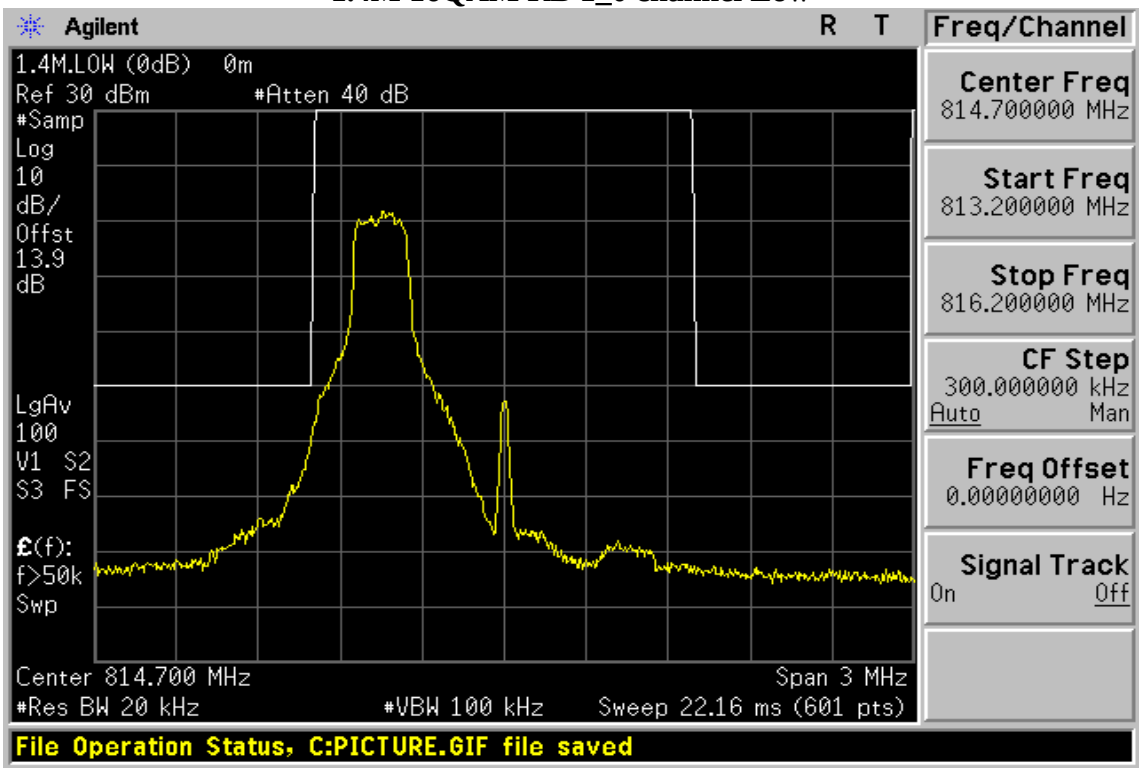
1.4M QPSK RB 6_0 channel Low



1.4M 16QAM RB 1_0 channel Low



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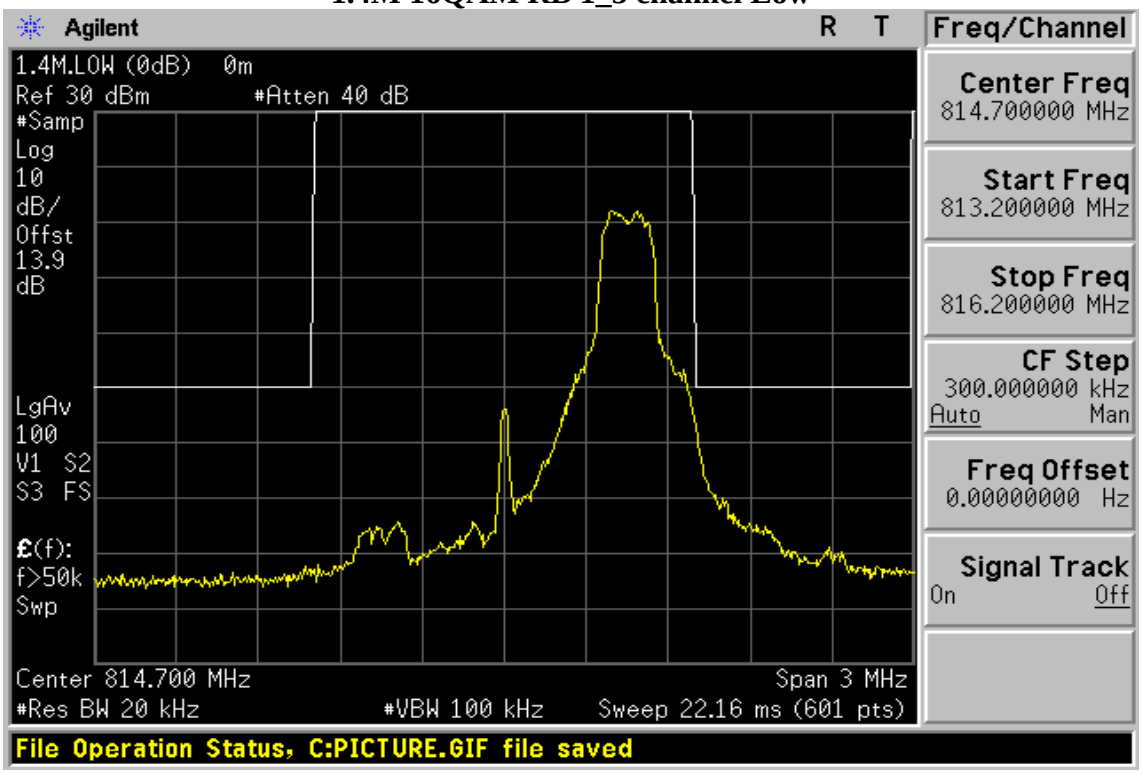
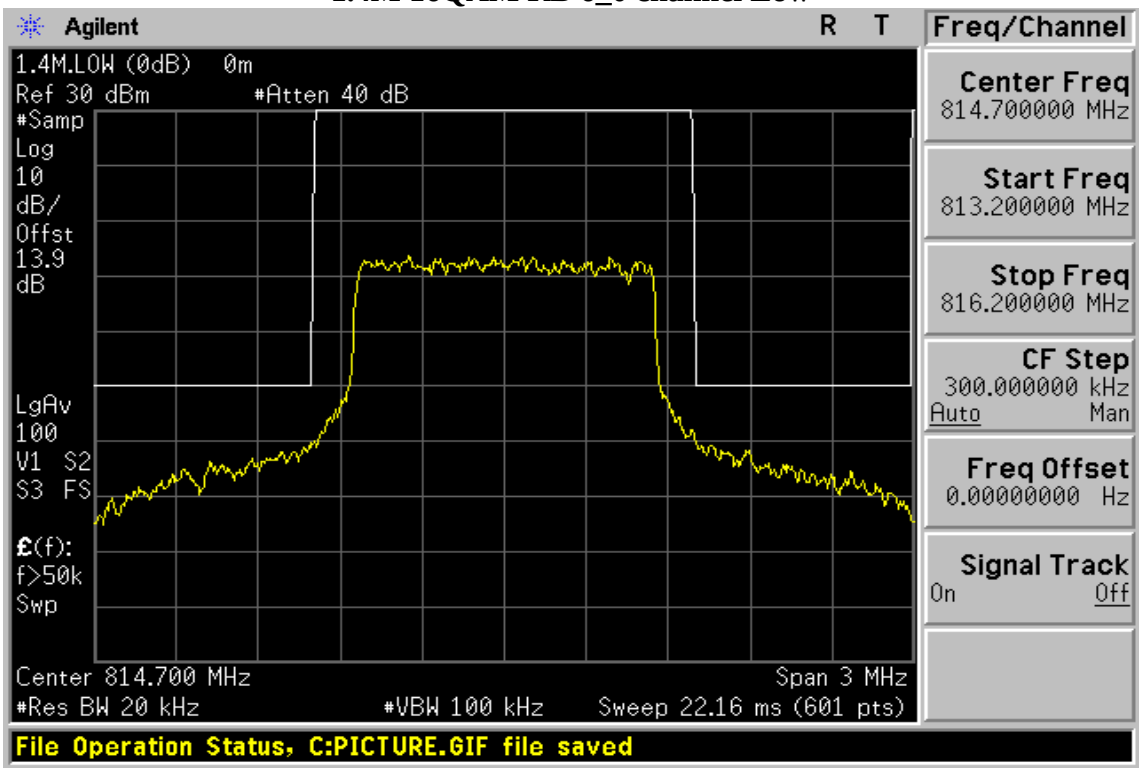
1.4M 16QAM RB 1_5 channel Low



1.4M 16QAM RB 6_0 channel Low



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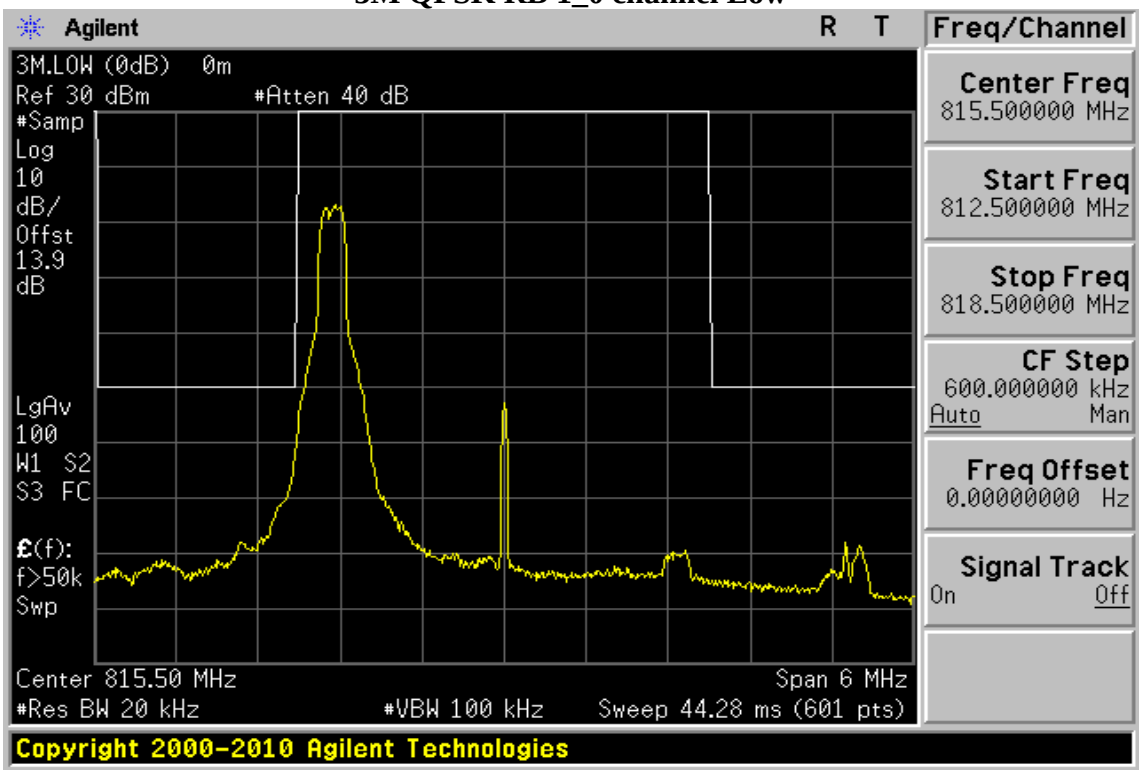
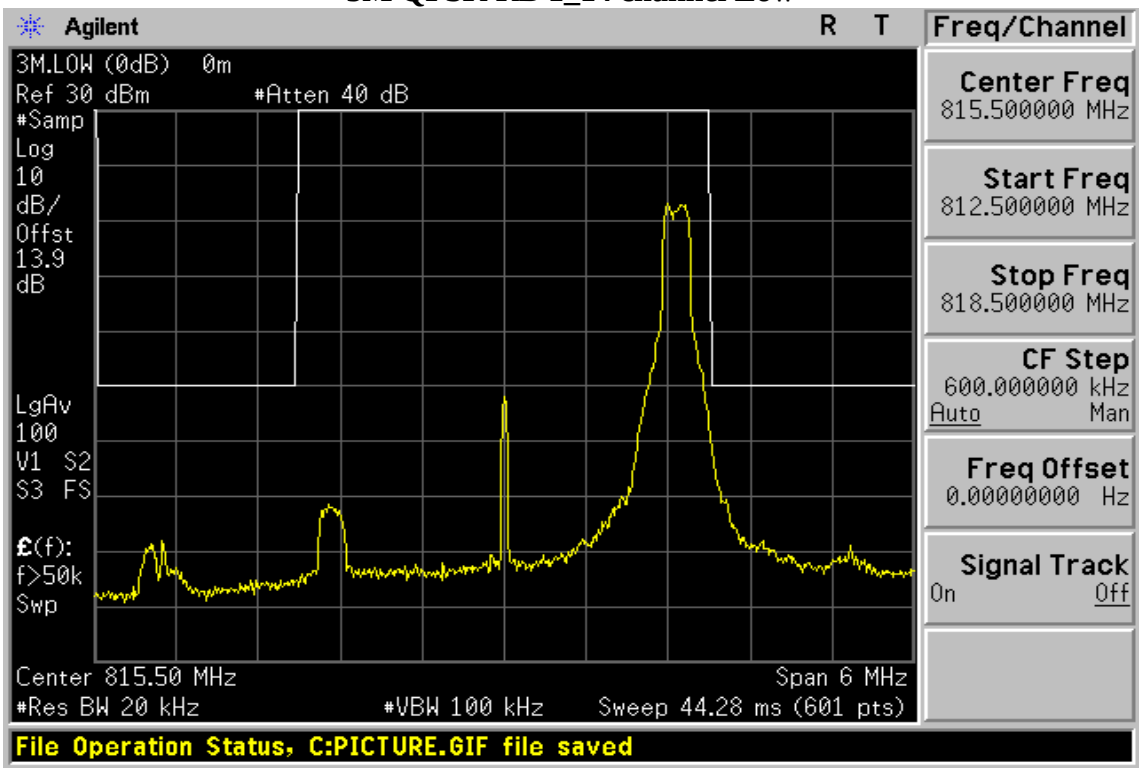
3M QPSK RB 1_0 channel Low



3M QPSK RB 1_14 channel Low



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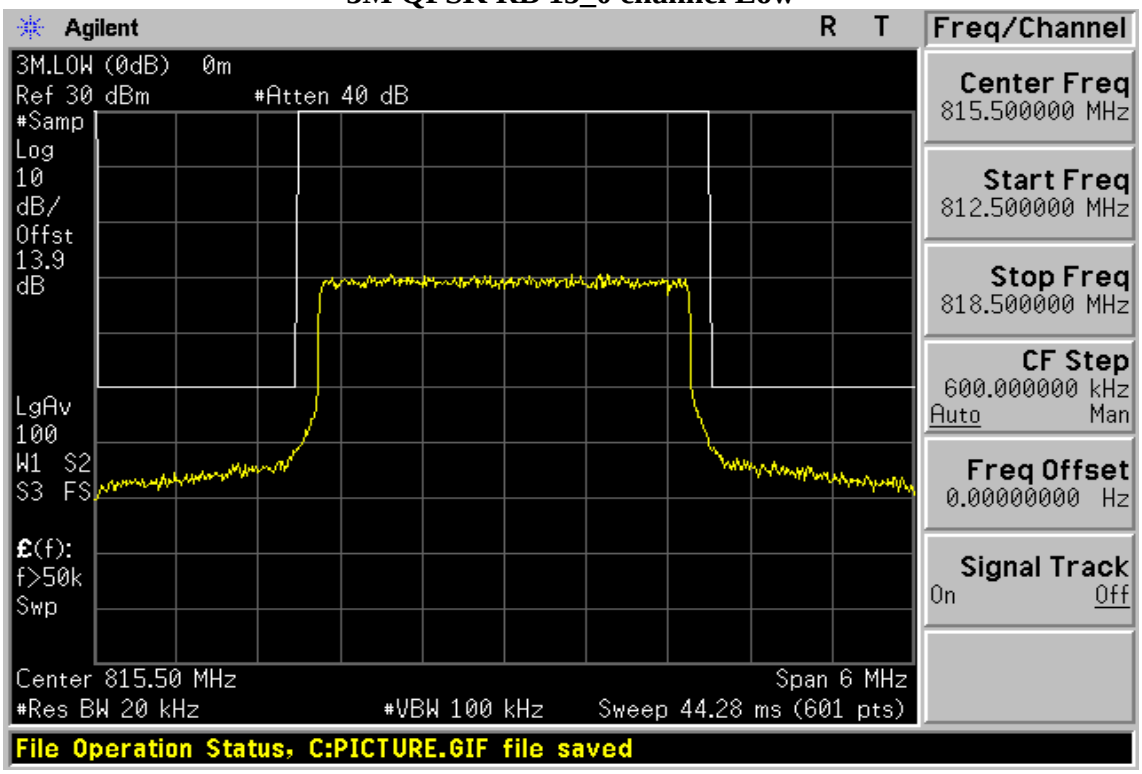
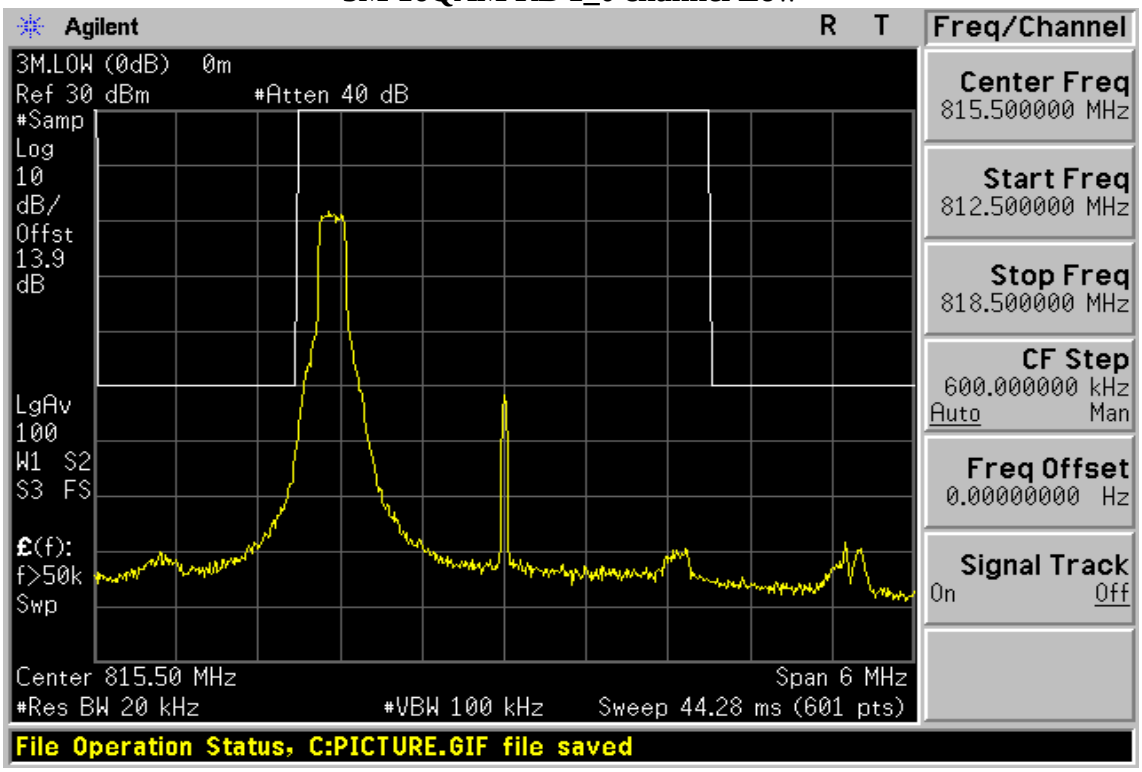
3M QPSK RB 15_0 channel Low



3M 16QAM RB 1_0 channel Low



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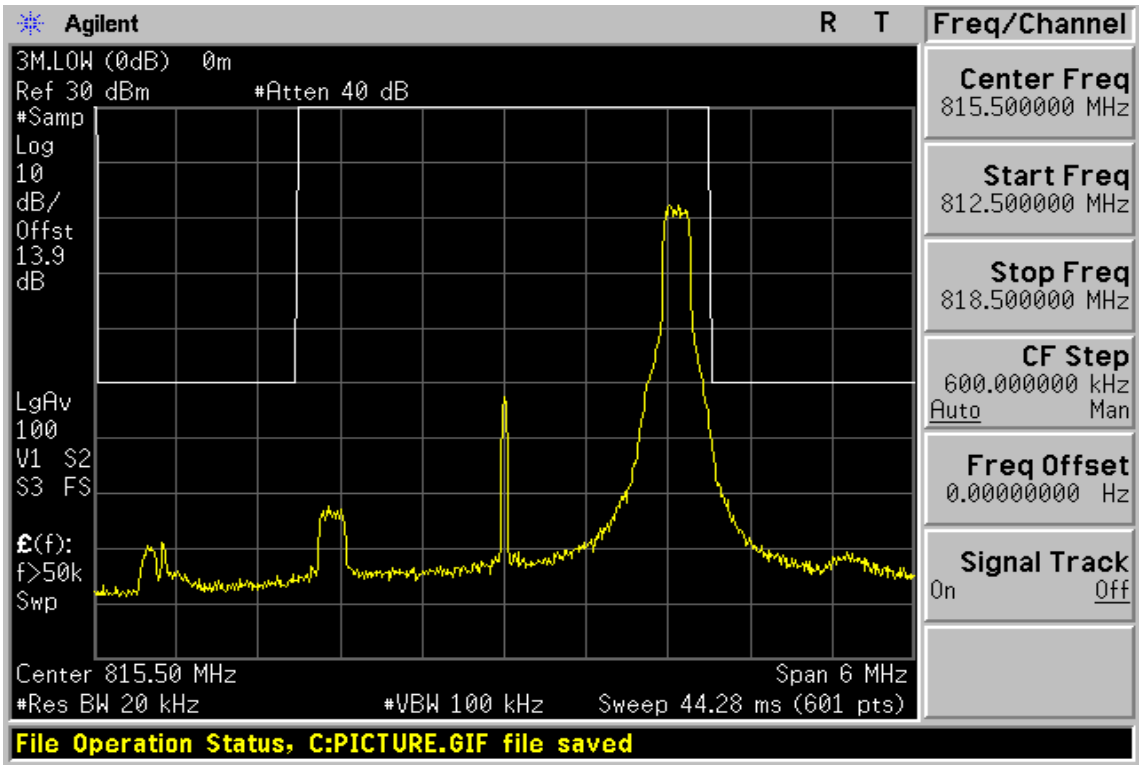
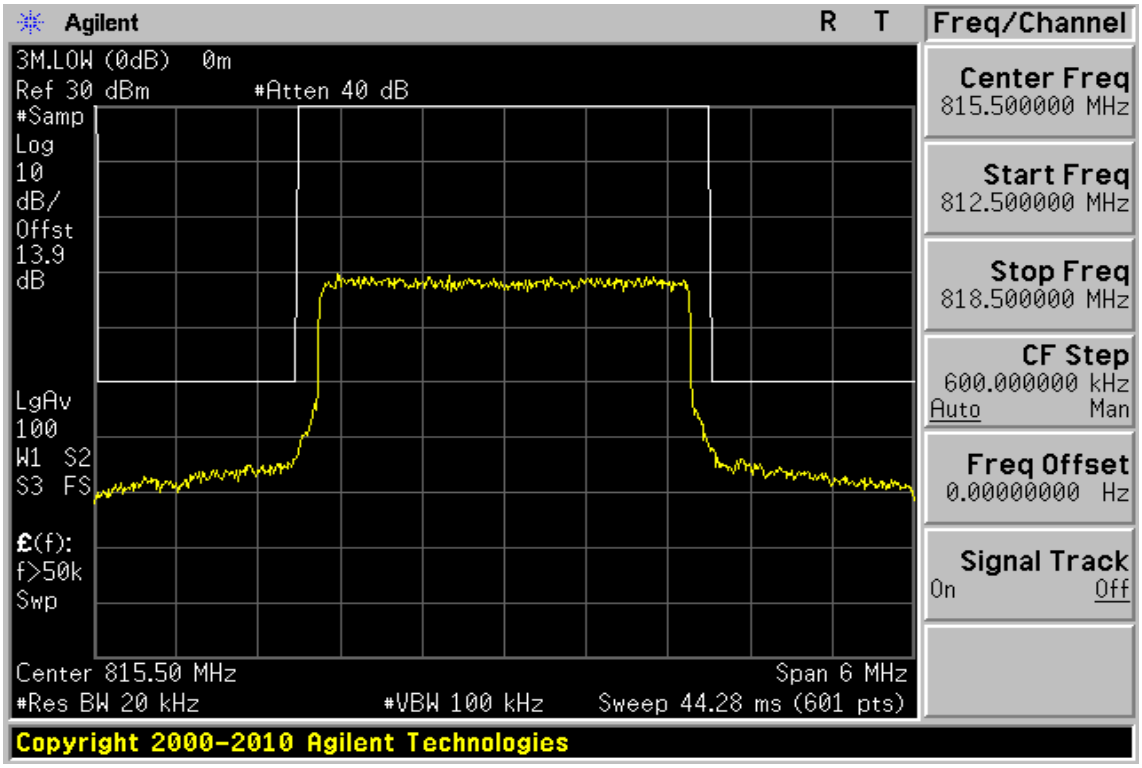
3M 16QAM RB 1_14 channel Low



3M 16QAM RB 15_0 channel Low



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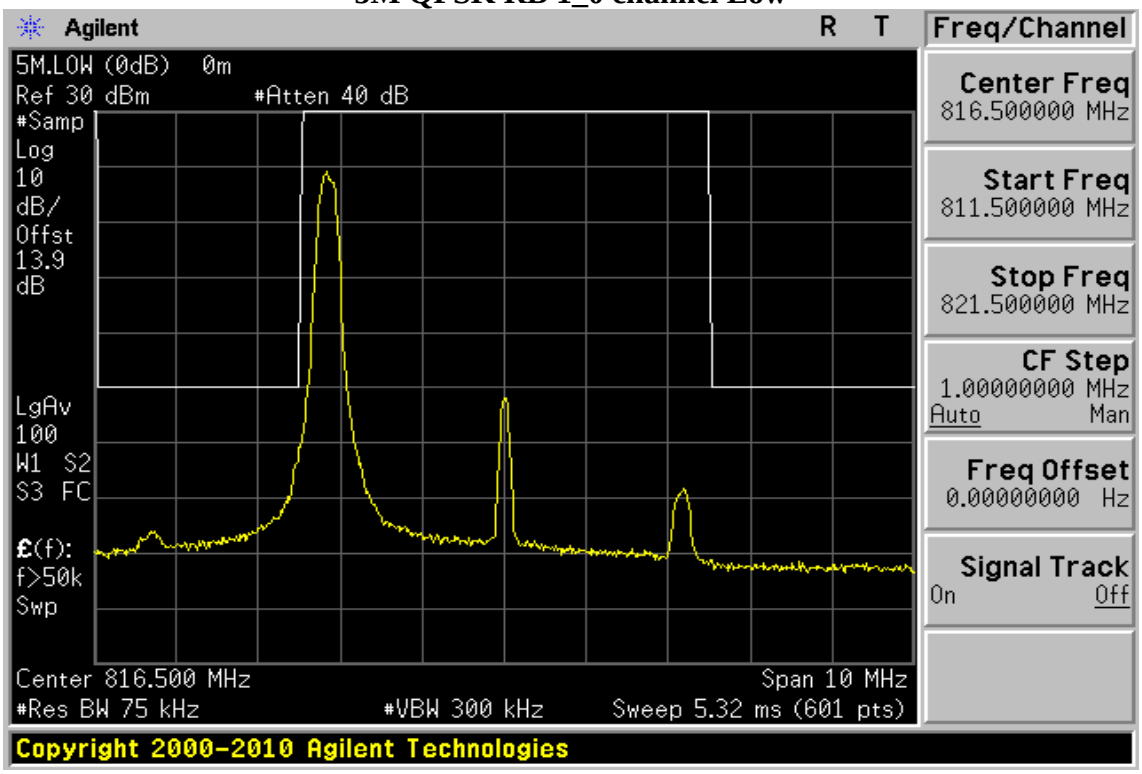
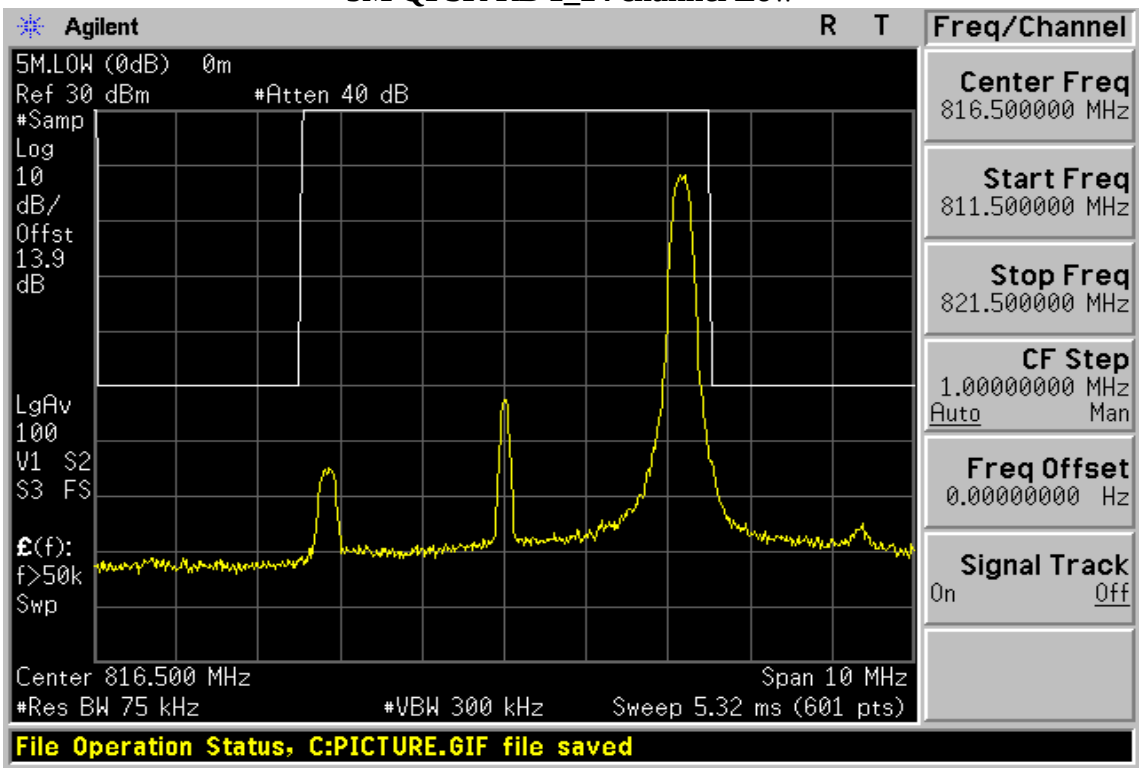
5M QPSK RB 1_0 channel Low



5M QPSK RB 1_24 channel Low



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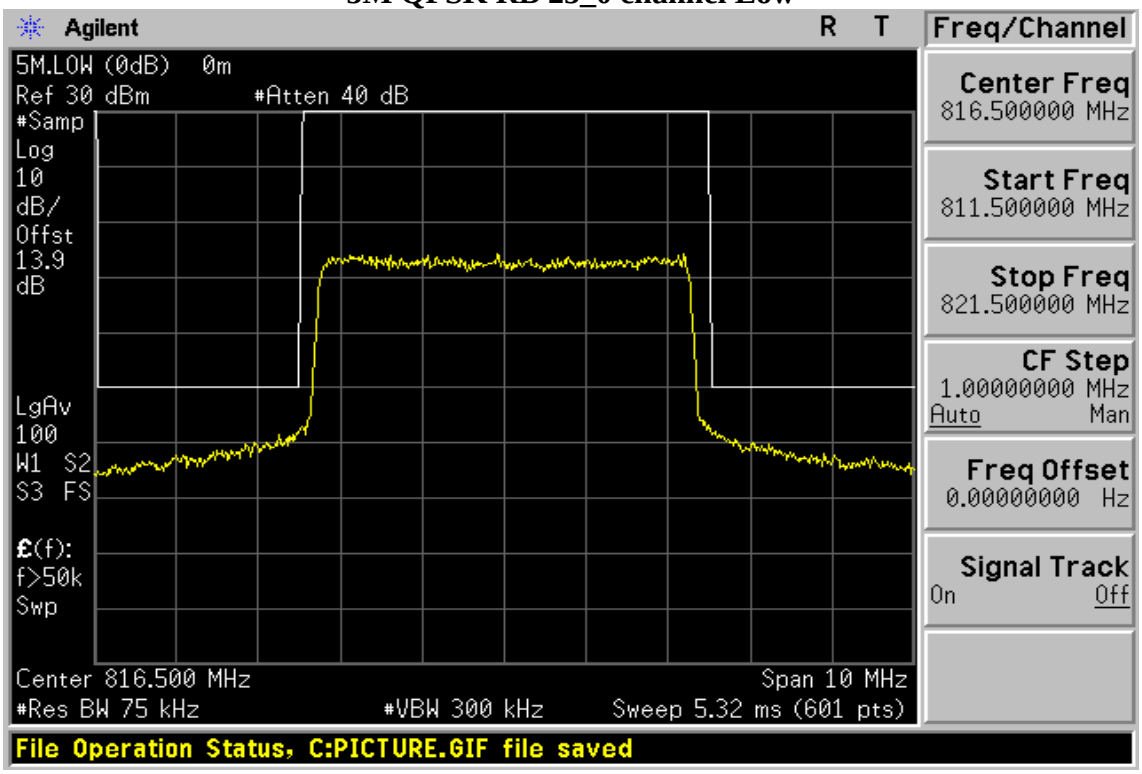
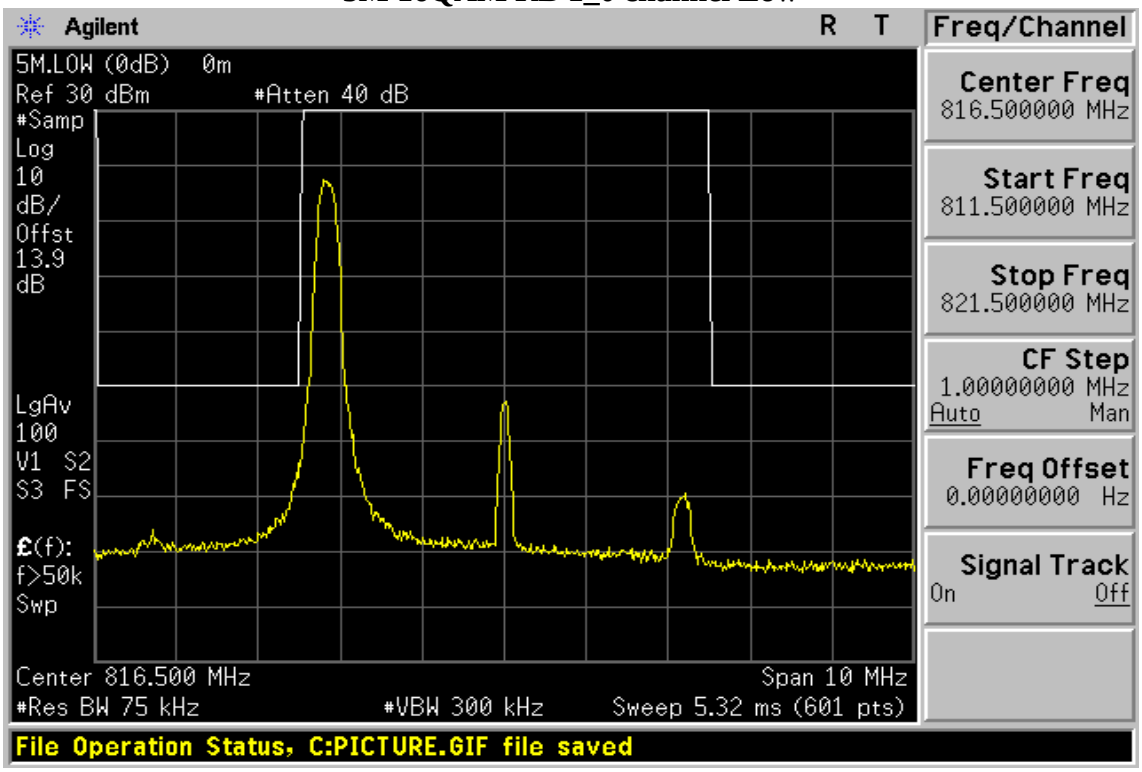
5M QPSK RB 25_0 channel Low



5M 16QAM RB 1_0 channel Low



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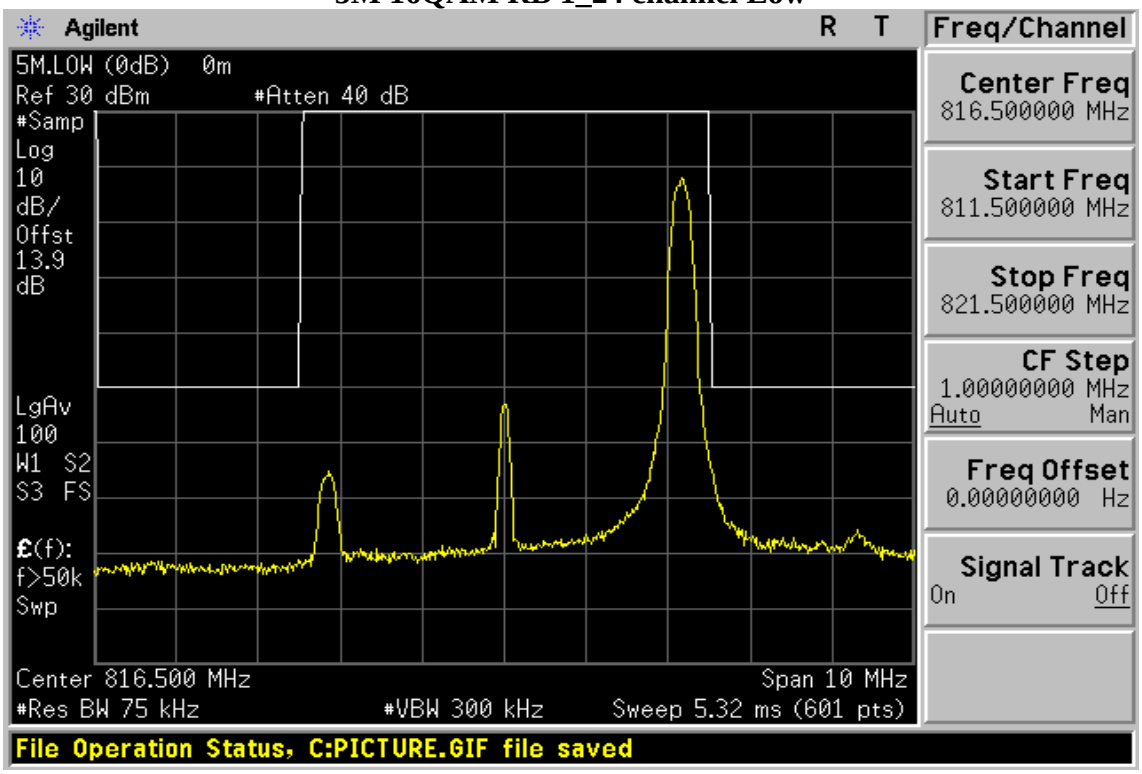
5M 16QAM RB 1_24 channel Low



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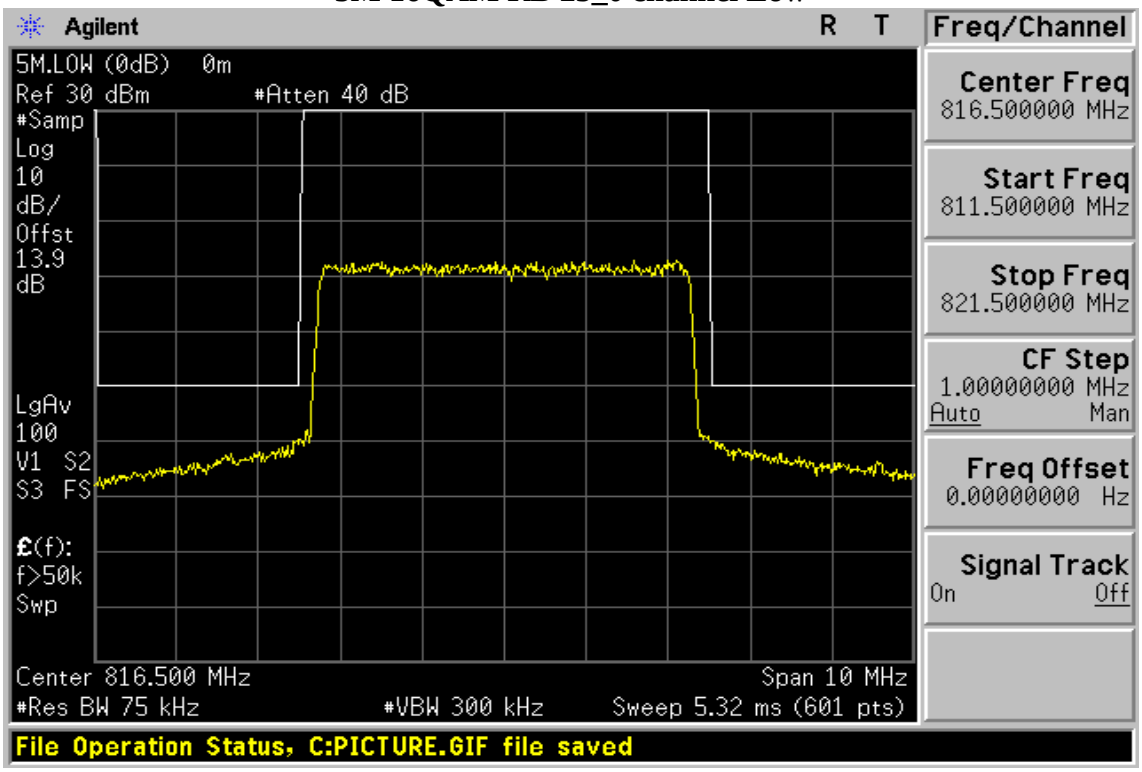

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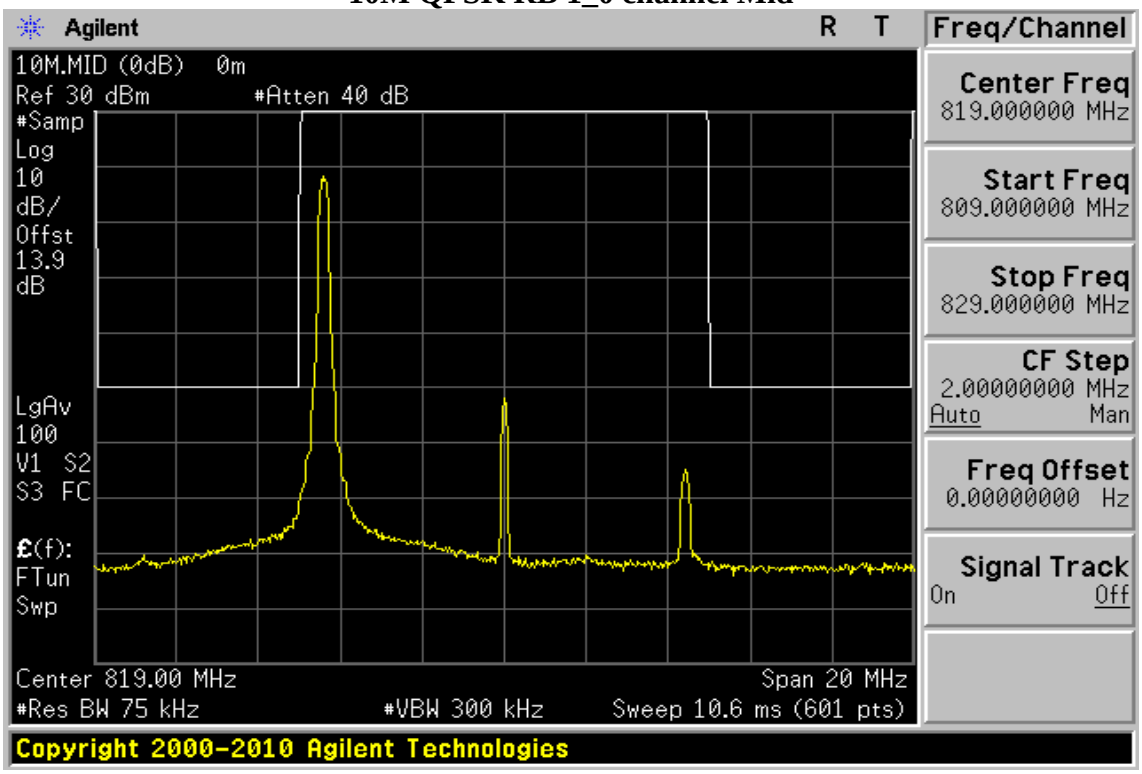
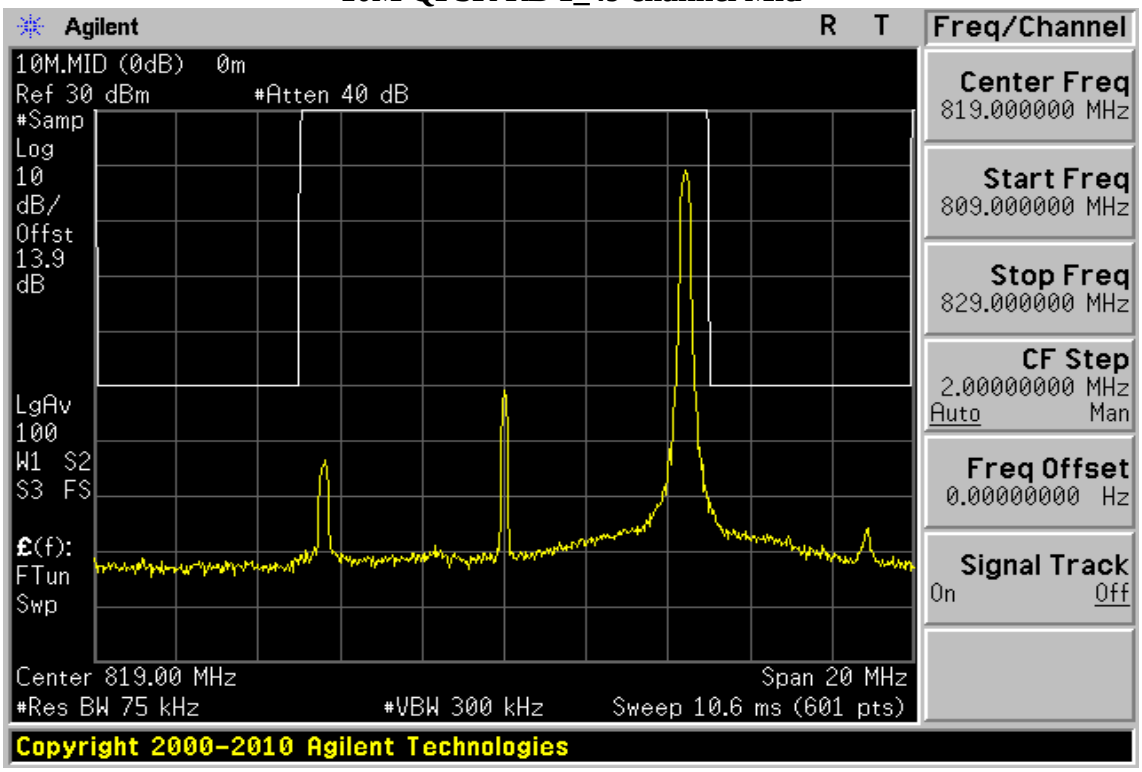
10M QPSK RB 1_0 channel Mid



10M QPSK RB 1_49 channel Mid



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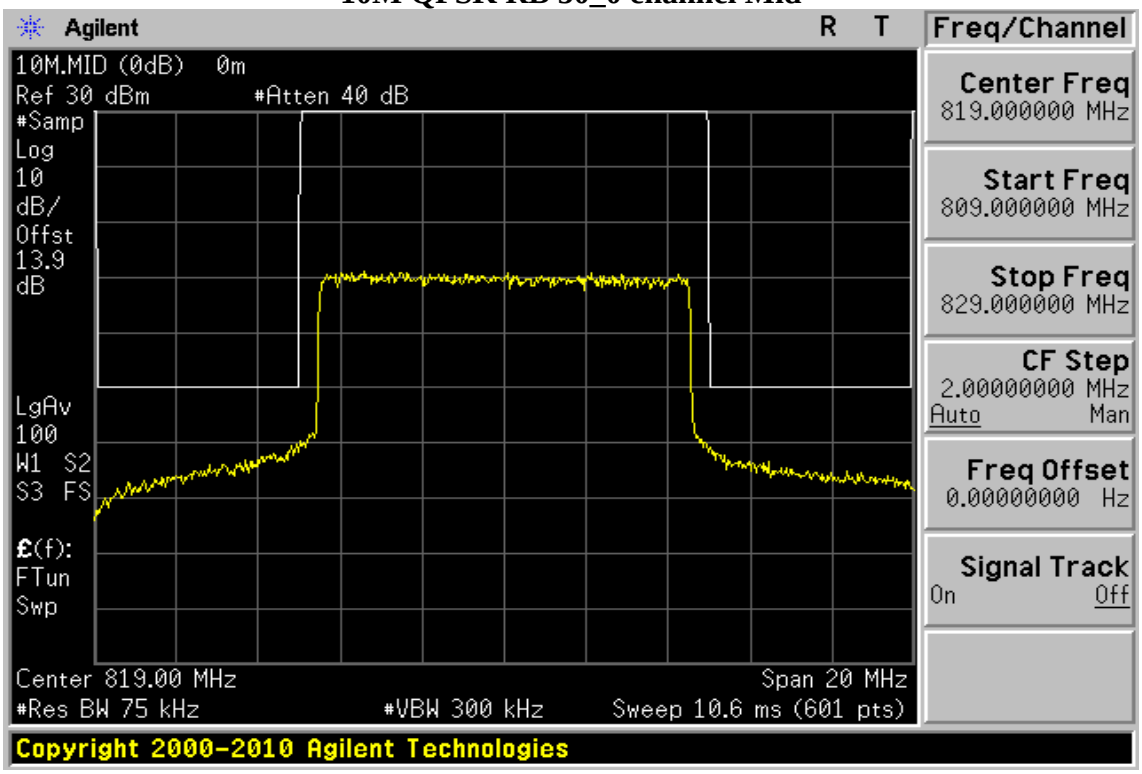
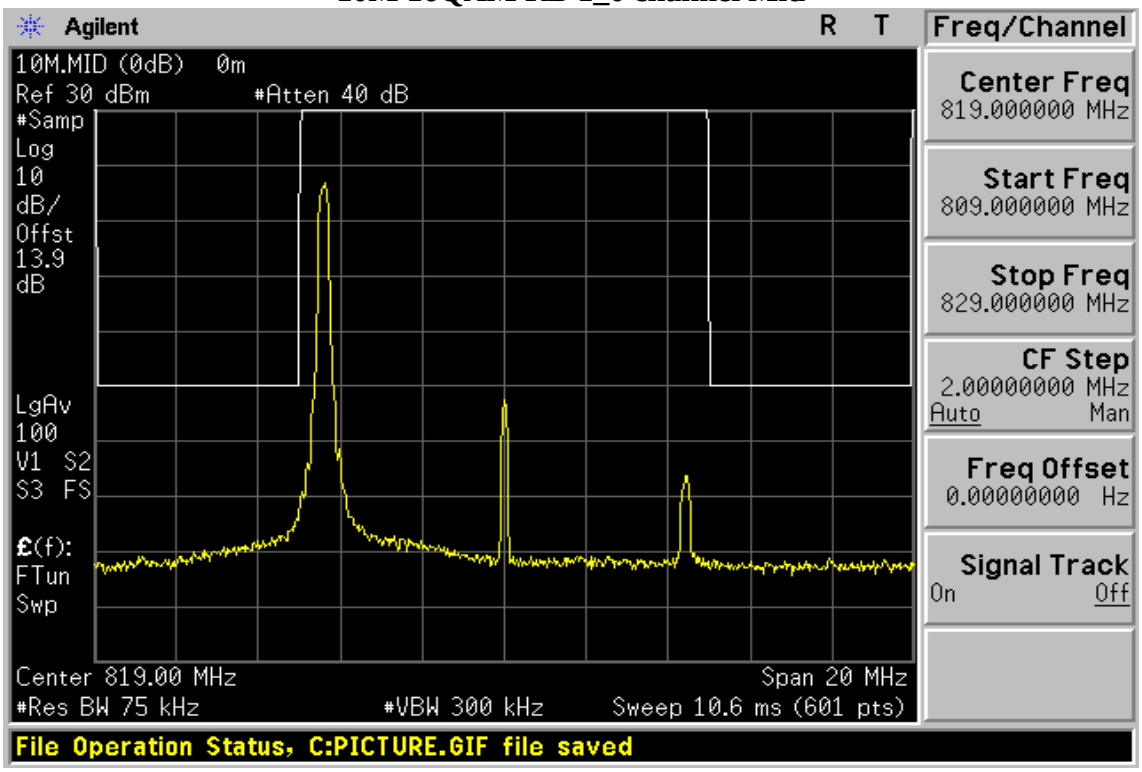
10M QPSK RB 50_0 channel Mid



10M 16QAM RB 1_0 channel Mid



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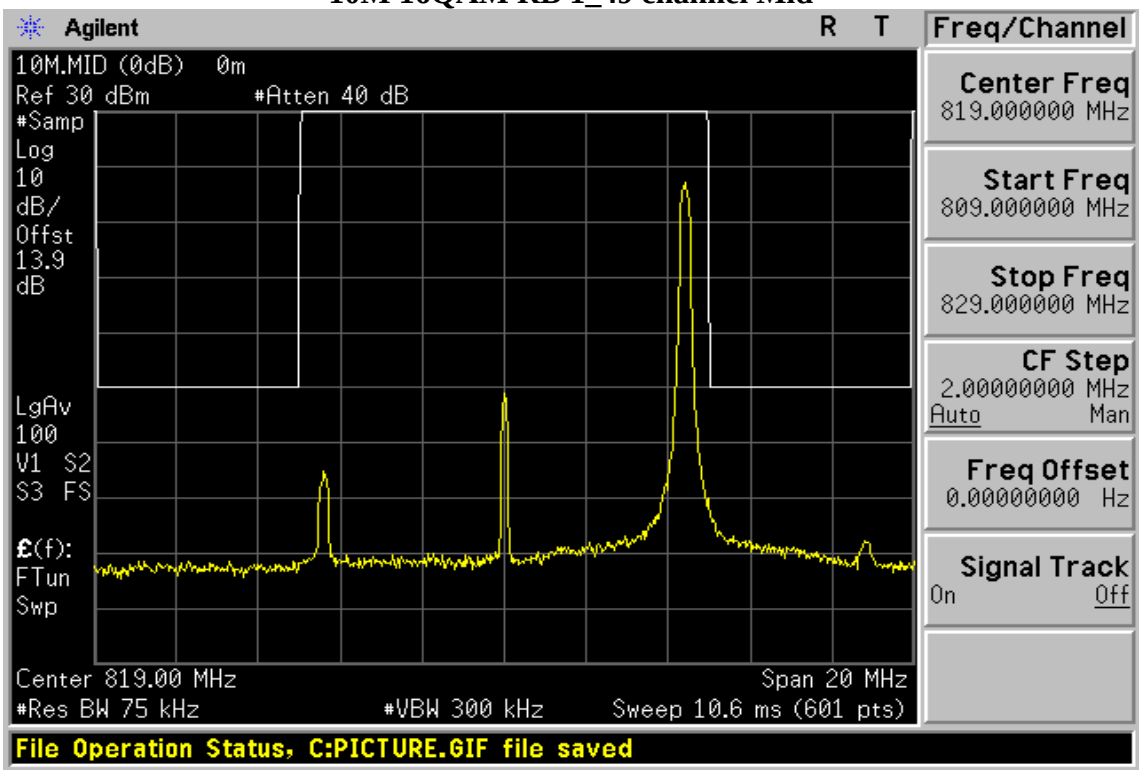
10M 16QAM RB 1_49 channel Mid



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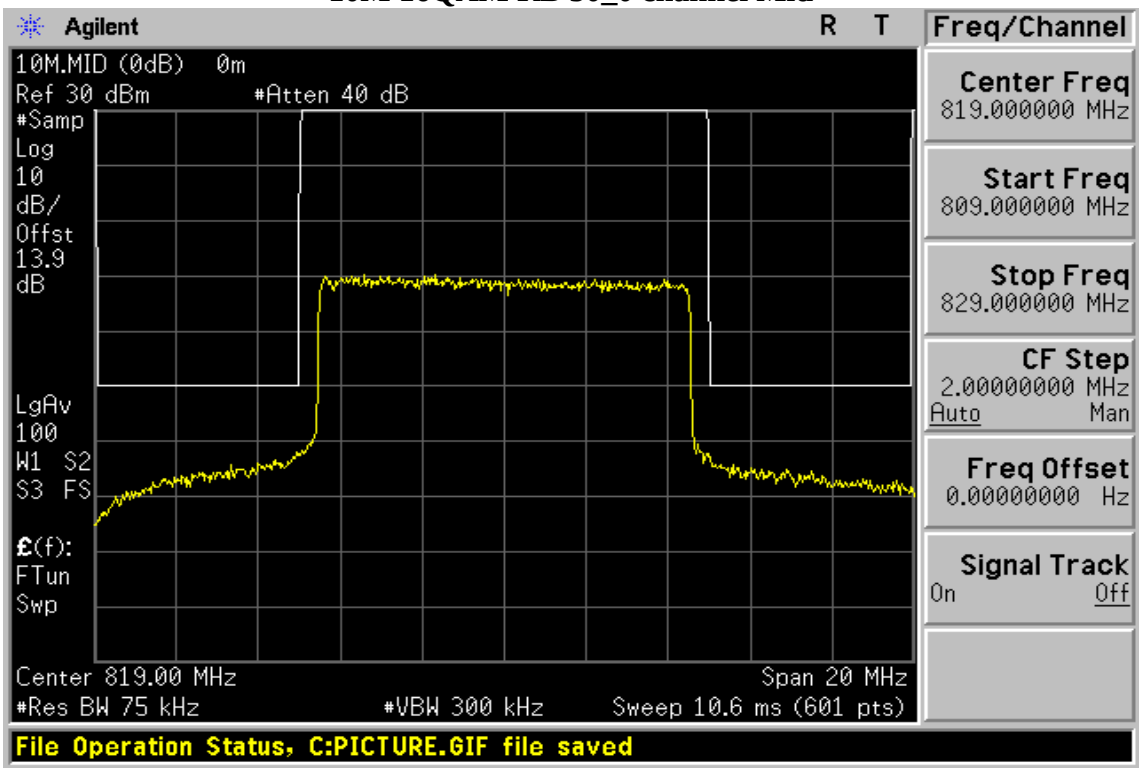

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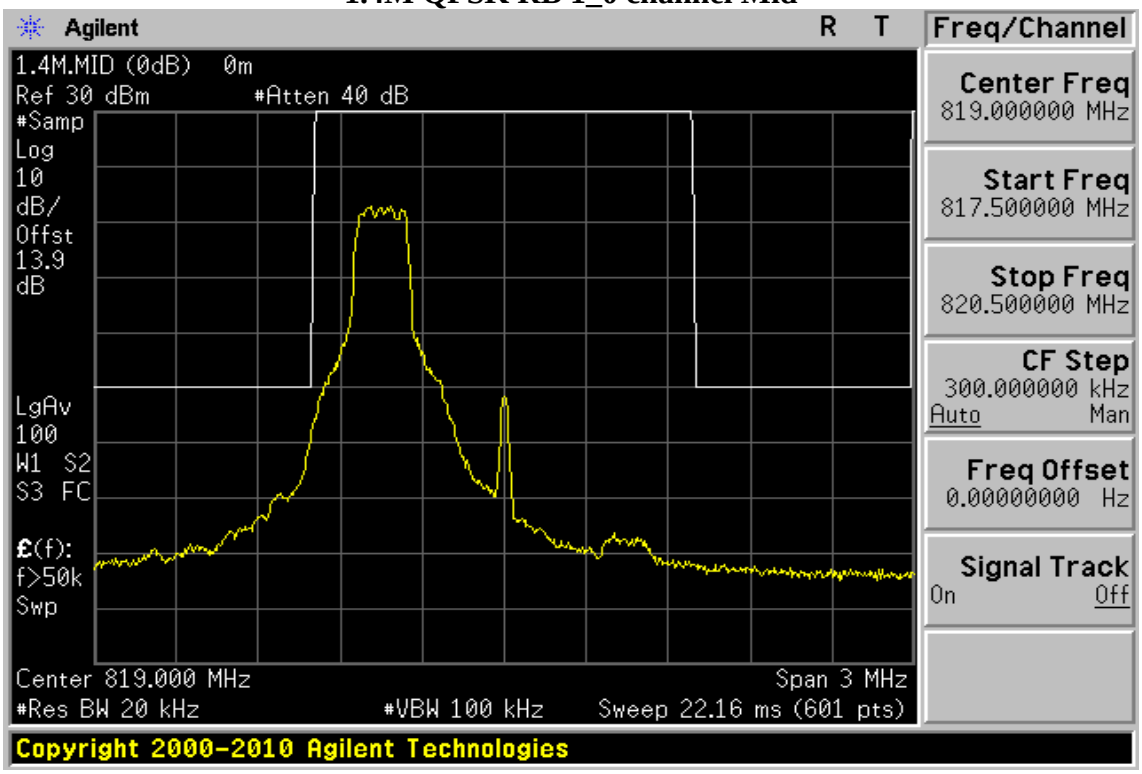
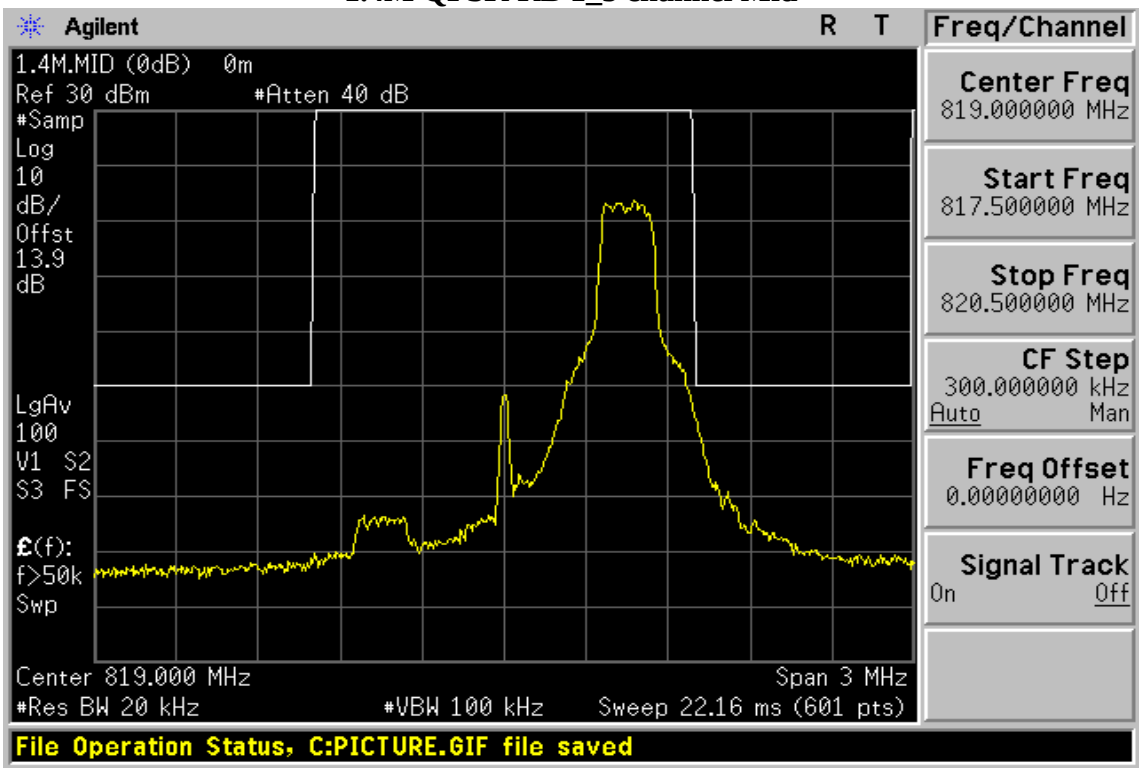
1.4M QPSK RB 1_0 channel Mid



1.4M QPSK RB 1_5 channel Mid



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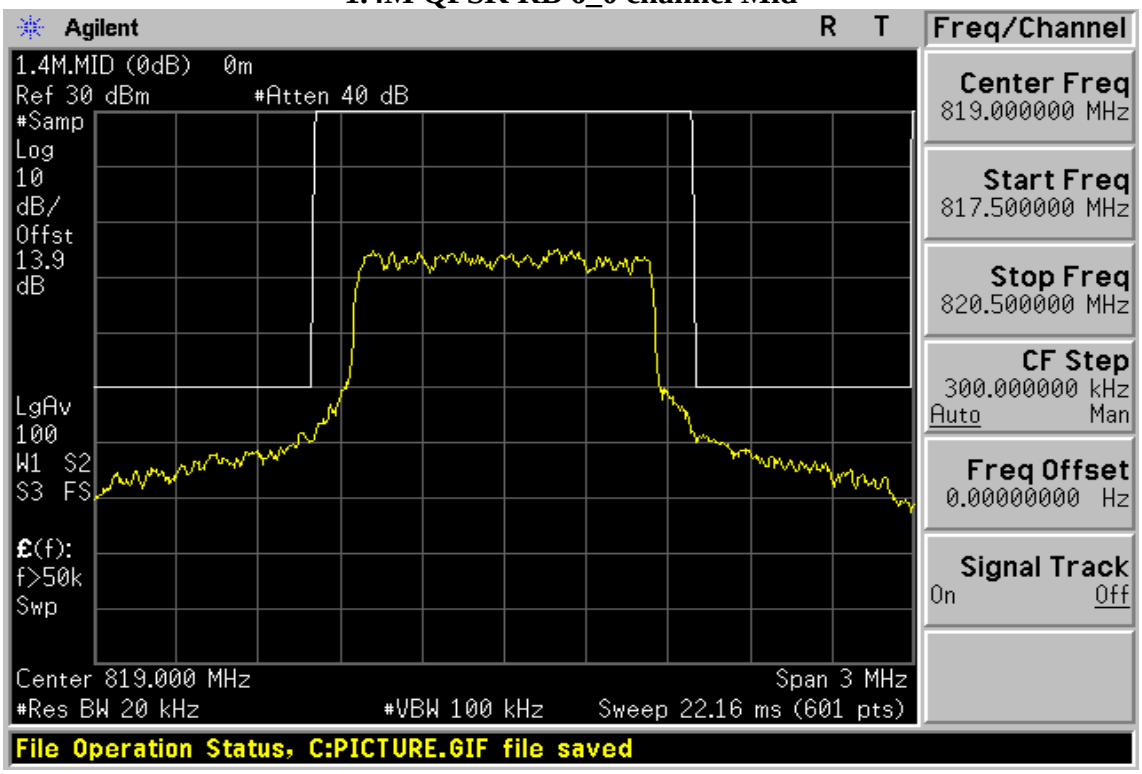
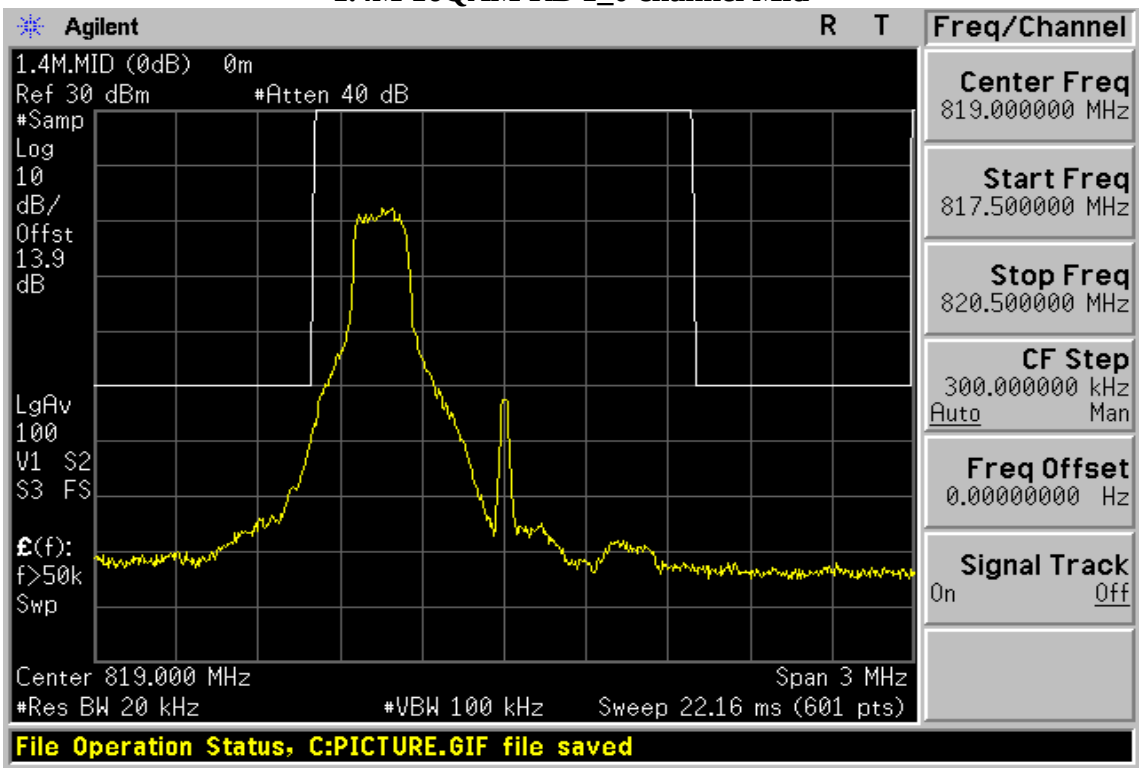
1.4M QPSK RB 6_0 channel Mid



1.4M 16QAM RB 1_0 channel Mid



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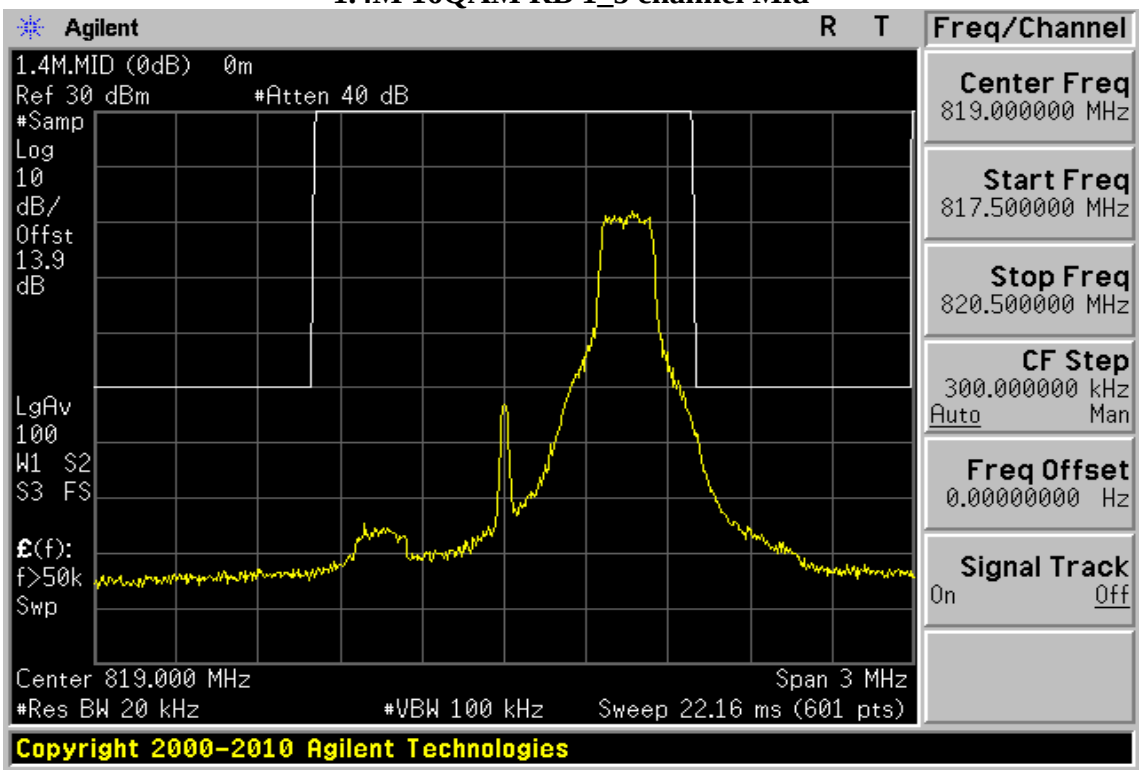
1.4M 16QAM RB 1_5 channel Mid



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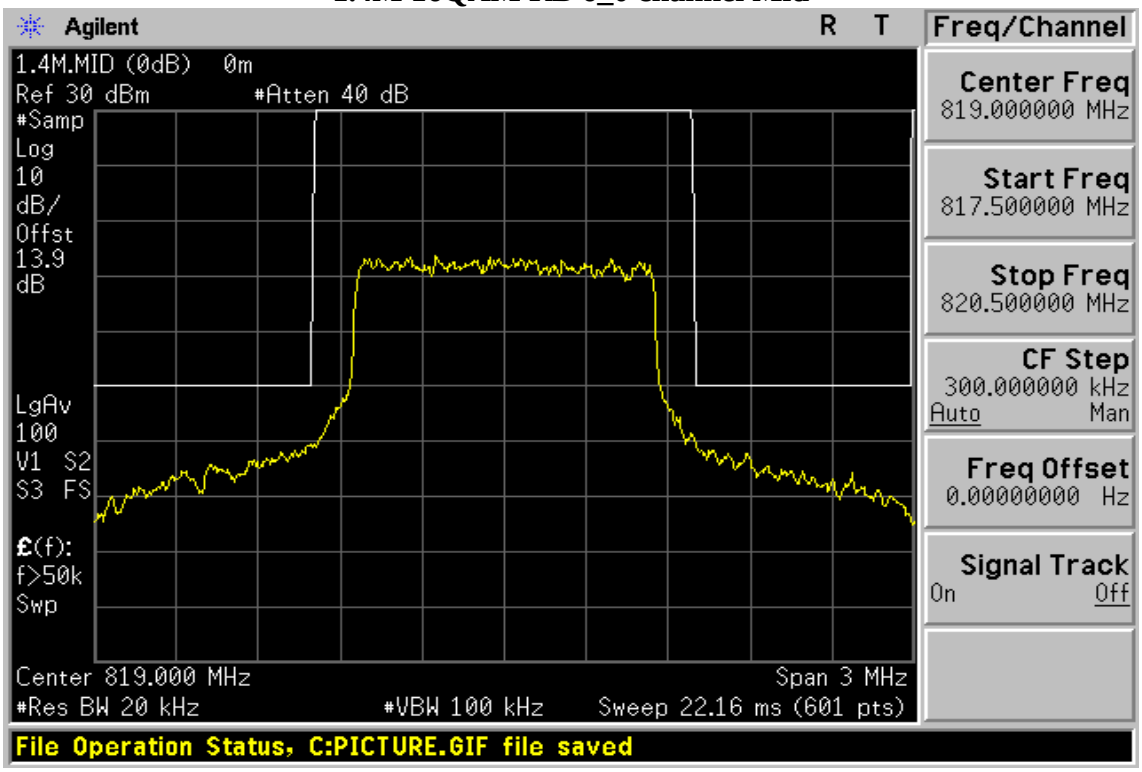

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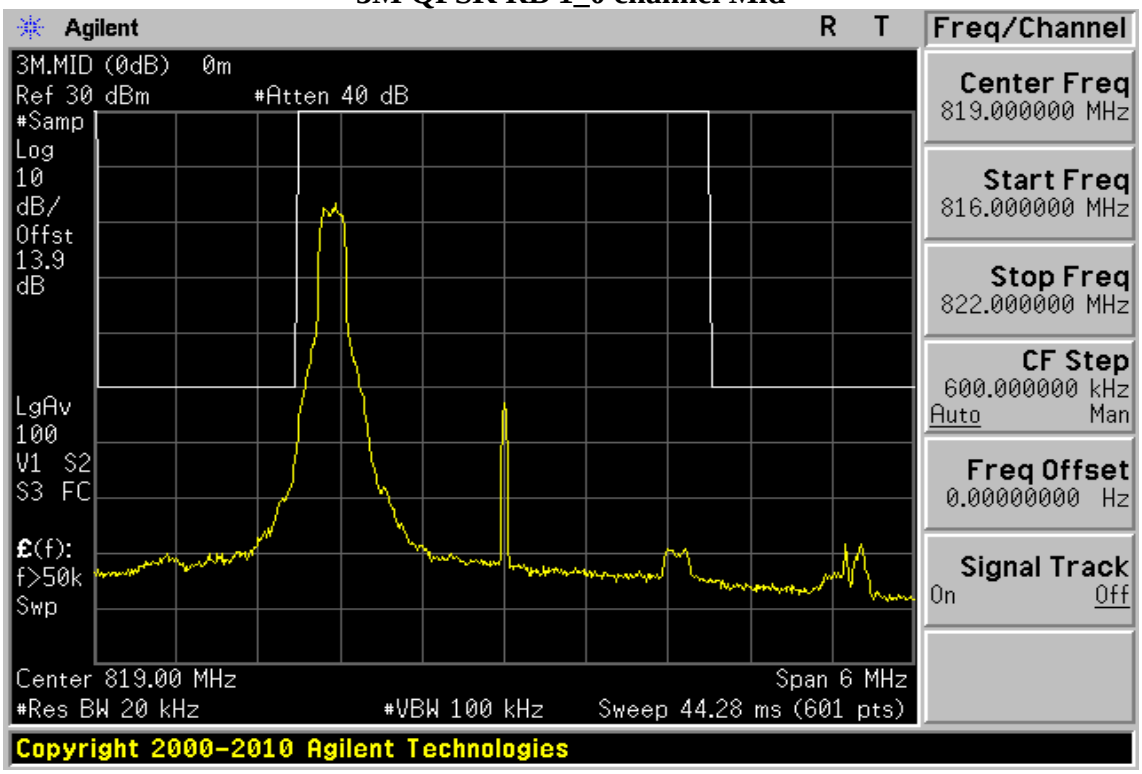
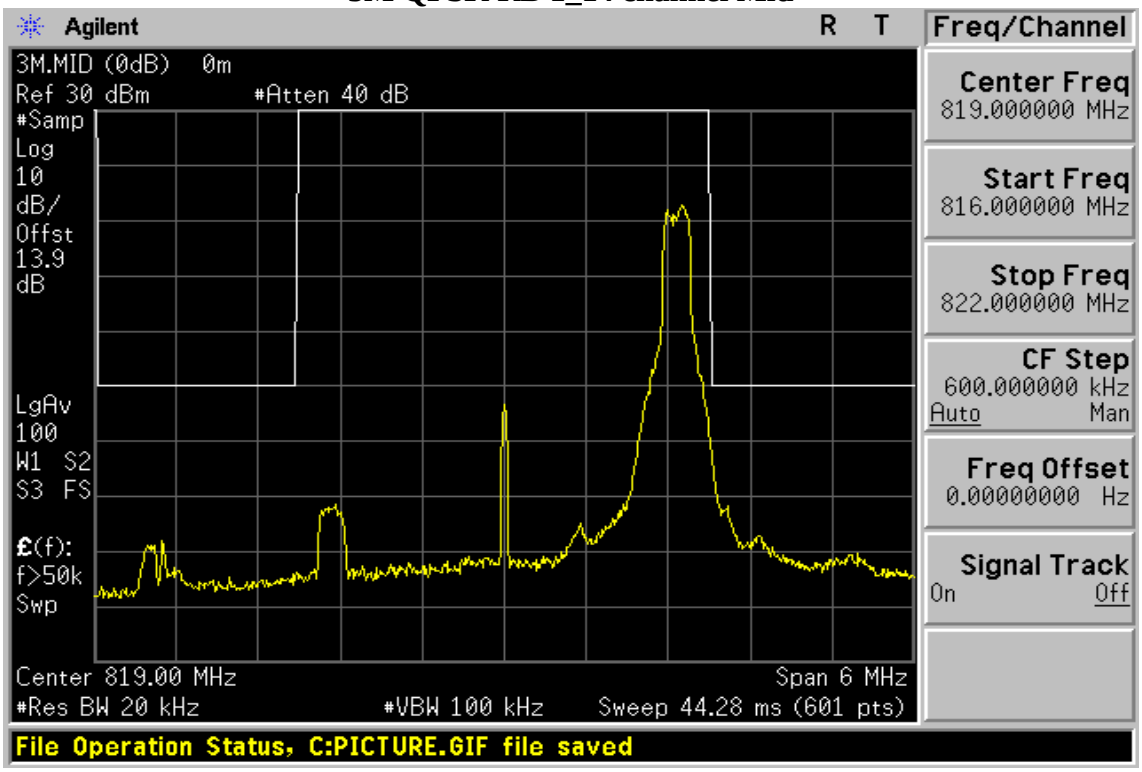
3M QPSK RB 1_0 channel Mid



3M QPSK RB 1_14 channel Mid



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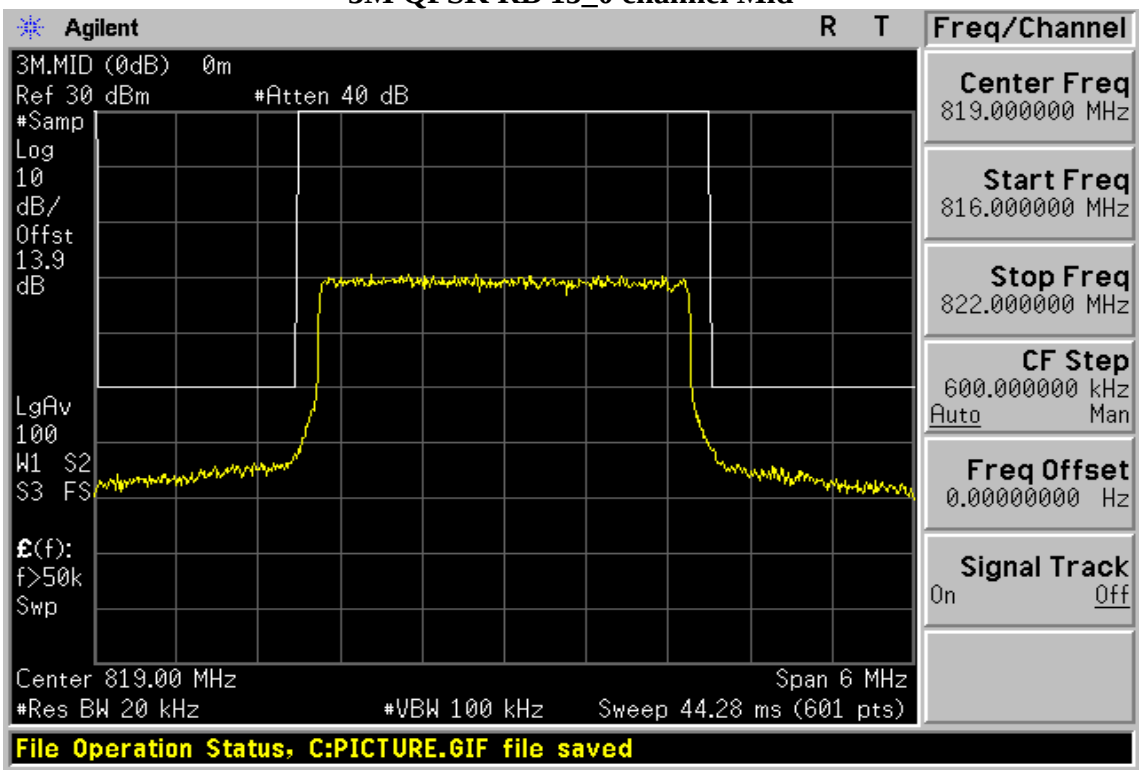
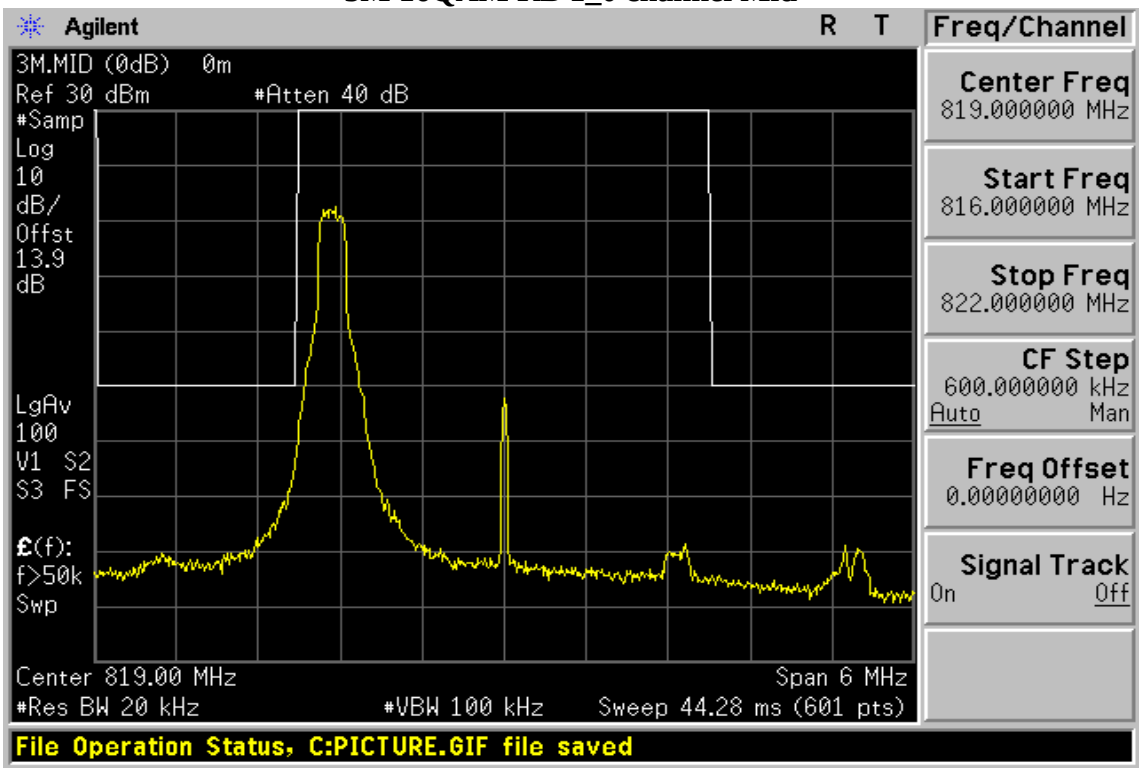
3M QPSK RB 15_0 channel Mid



3M 16QAM RB 1_0 channel Mid



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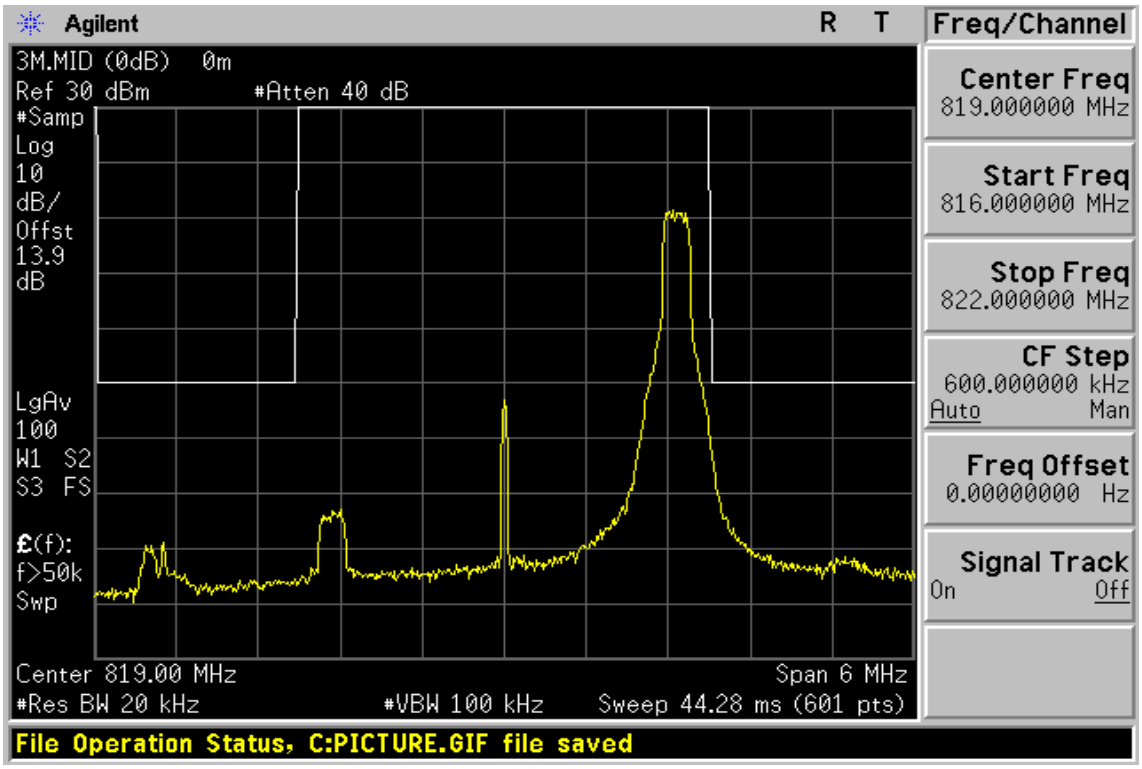
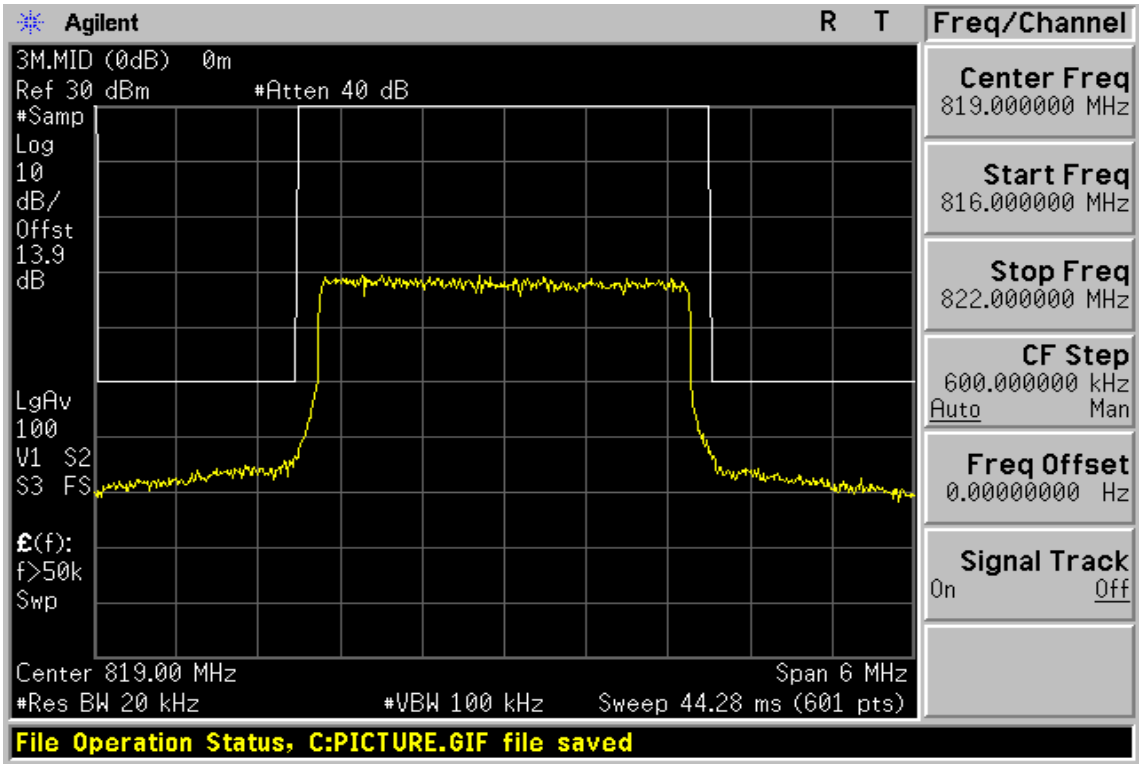
3M 16QAM RB 1_14 channel Mid



3M 16QAM RB 15_0 channel Mid



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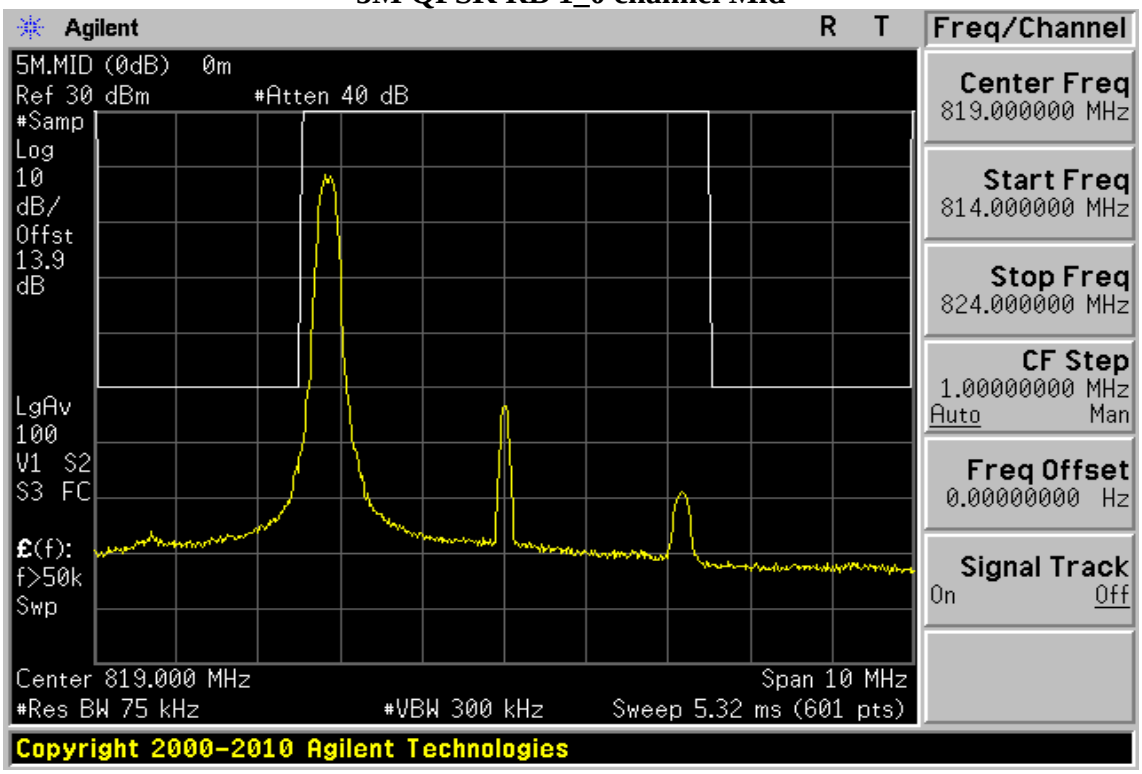
5M QPSK RB 1_0 channel Mid



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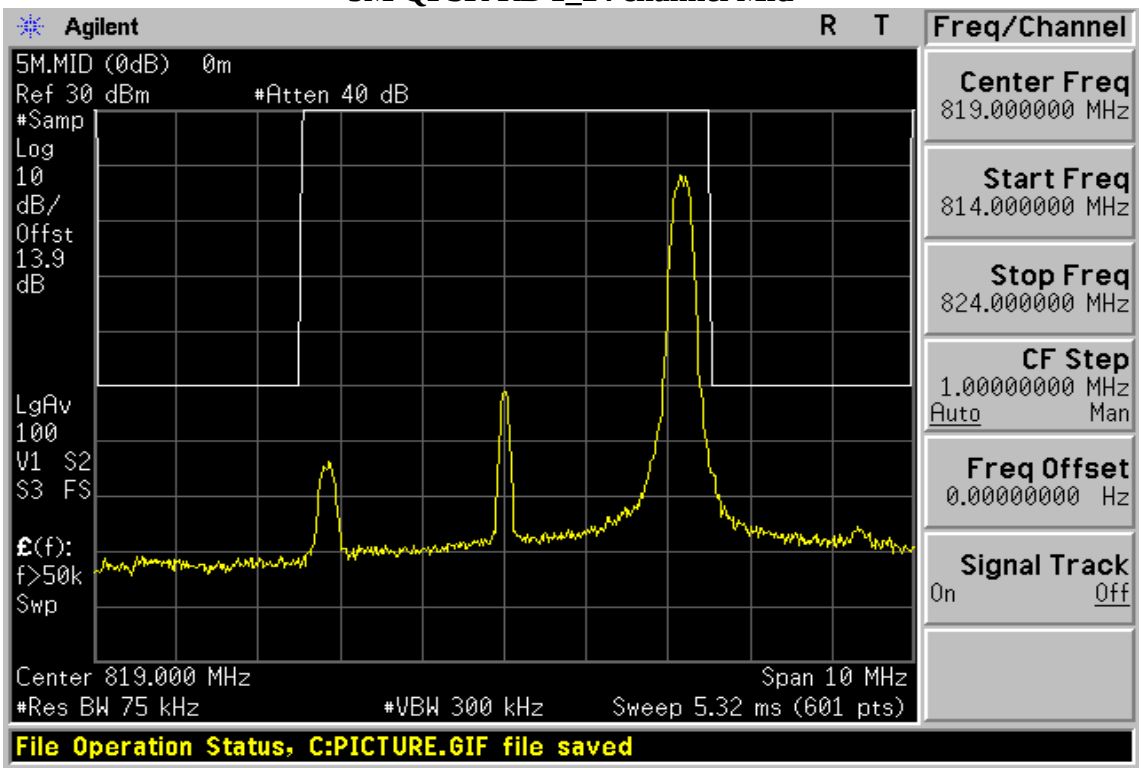

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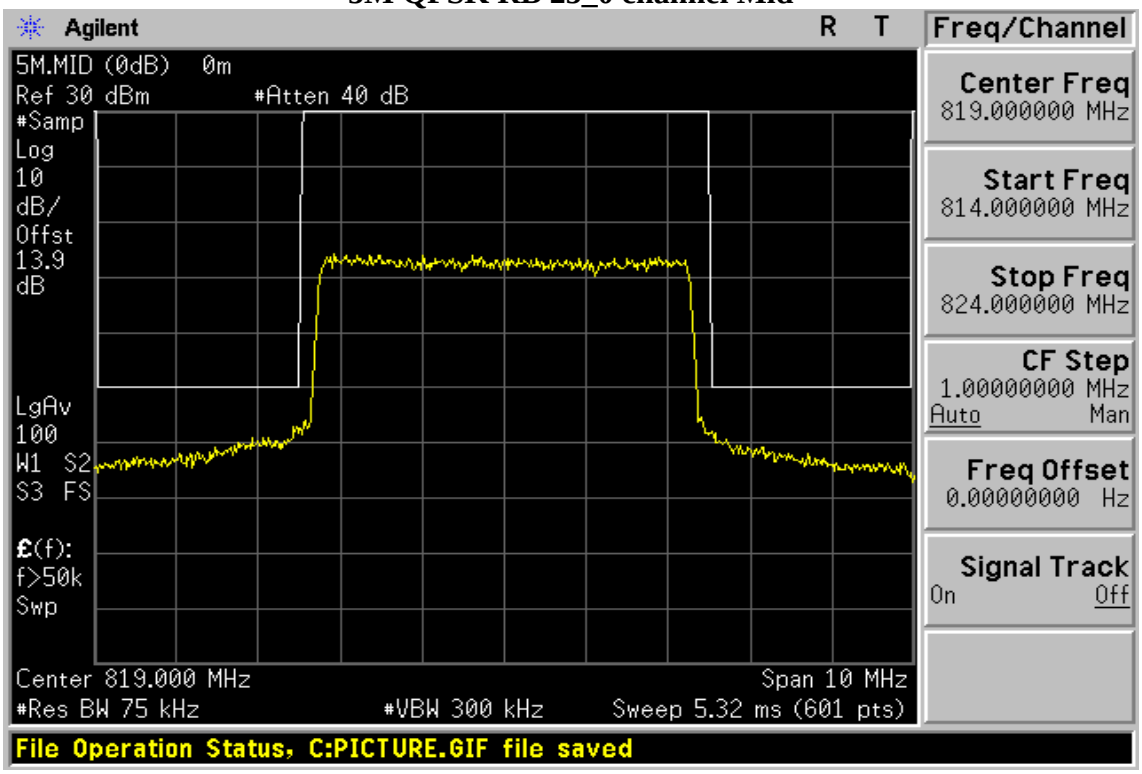
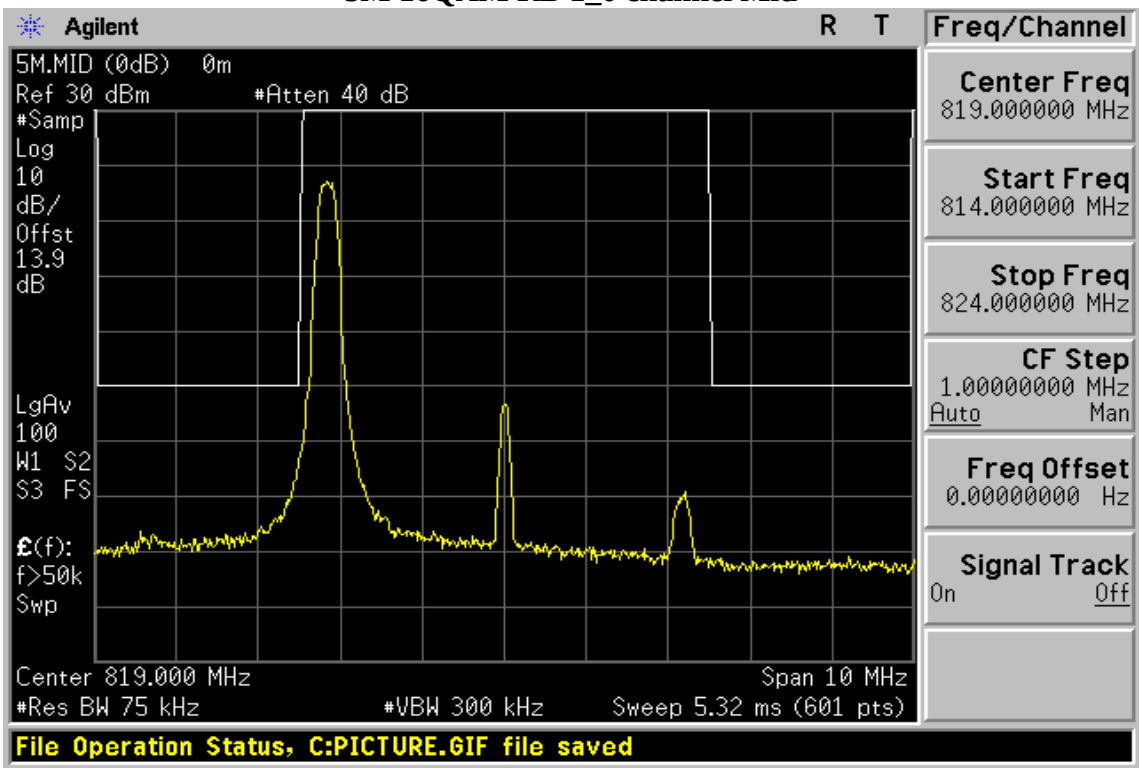
5M QPSK RB 25_0 channel Mid



5M 16QAM RB 1_0 channel Mid



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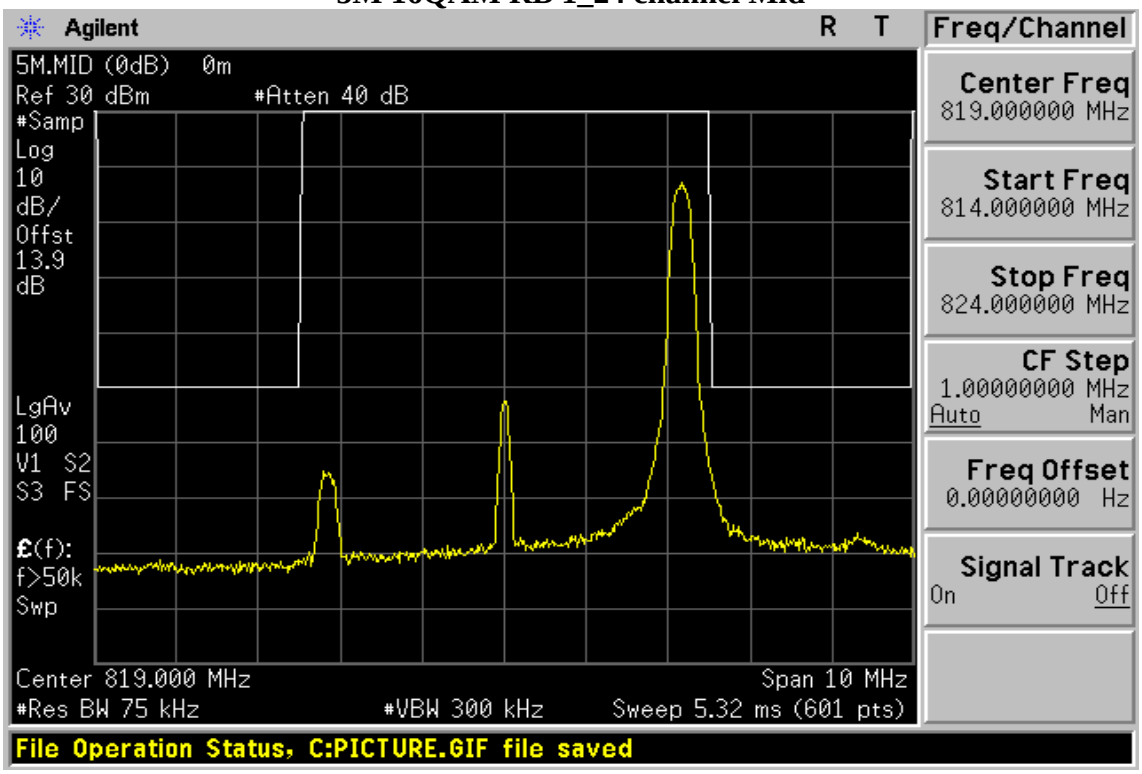
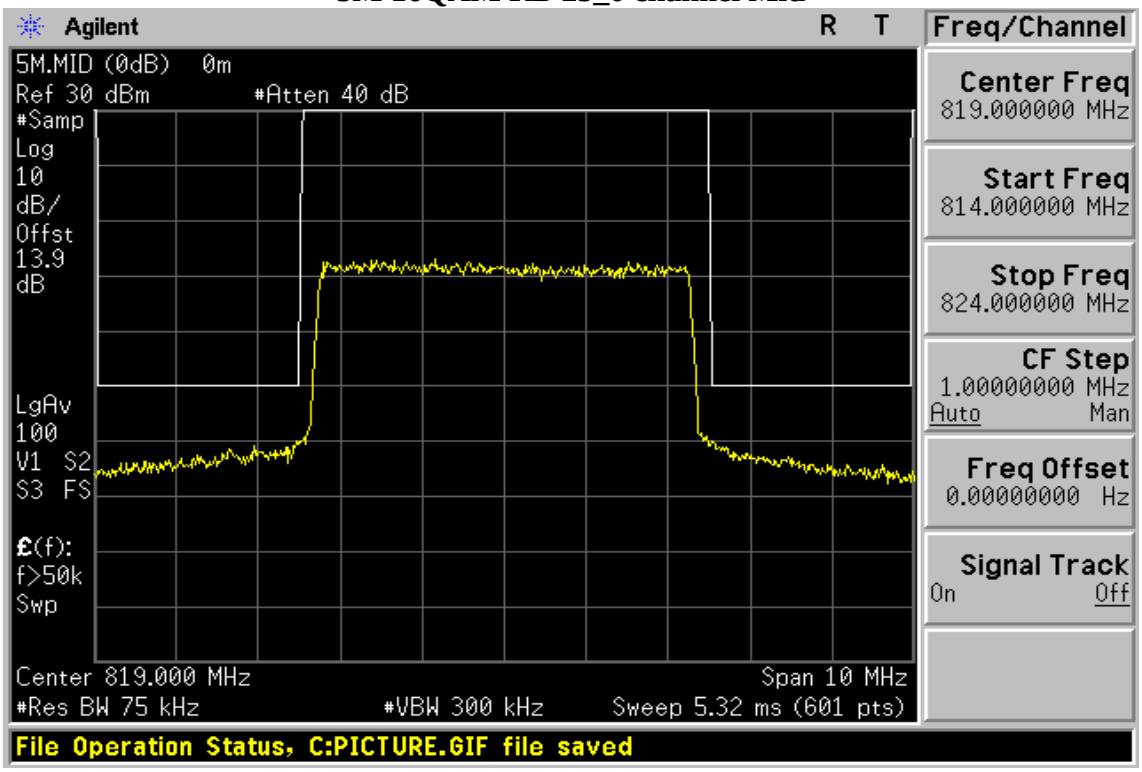
5M 16QAM RB 1_24 channel Mid



5M 16QAM RB 25_0 channel Mid



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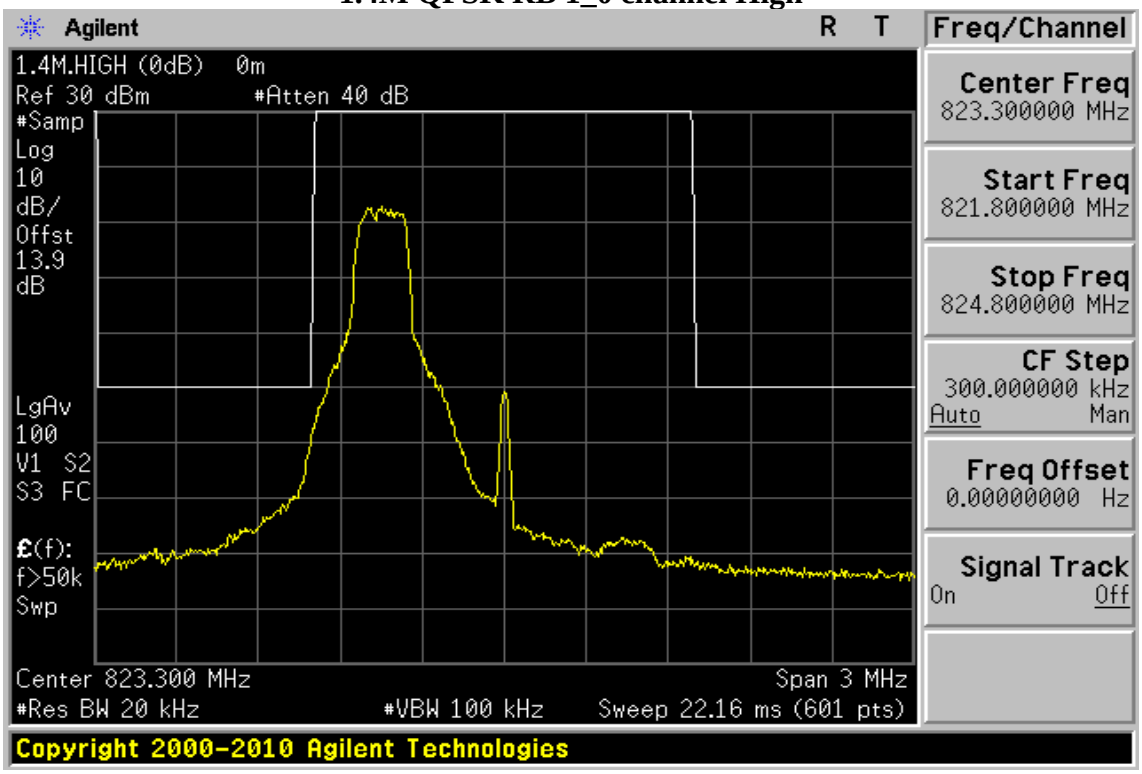
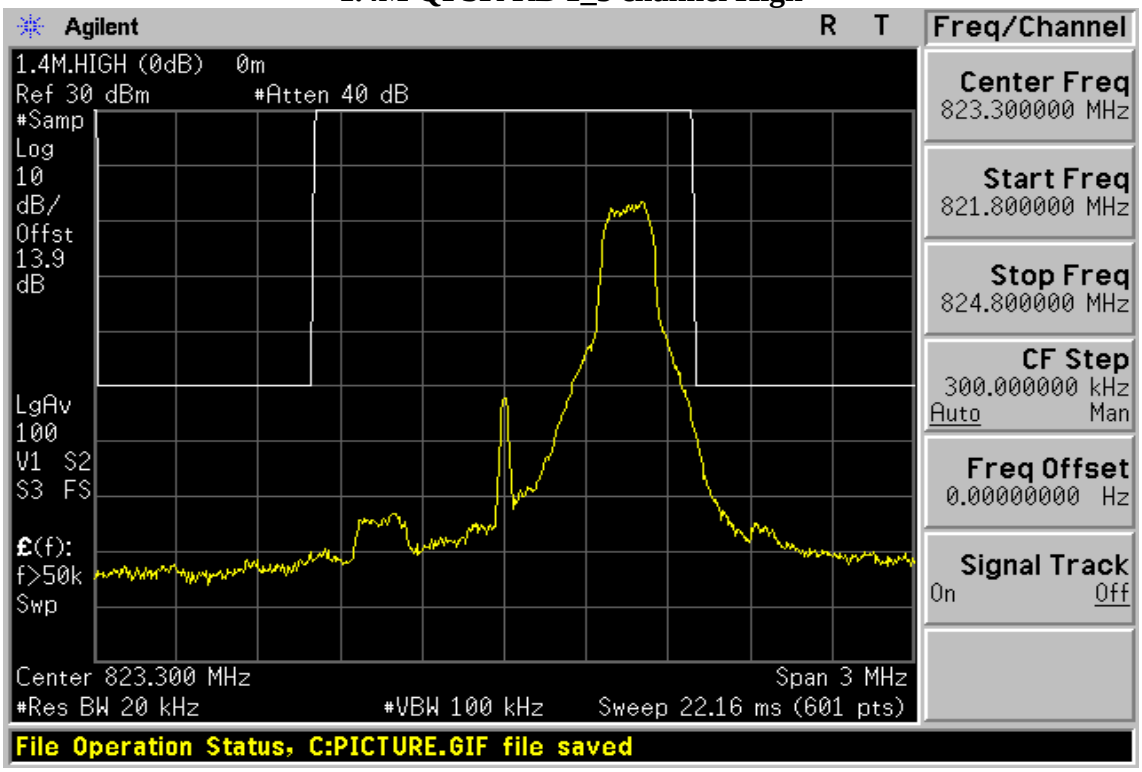
1.4M QPSK RB 1_0 channel High



1.4M QPSK RB 1_5 channel High



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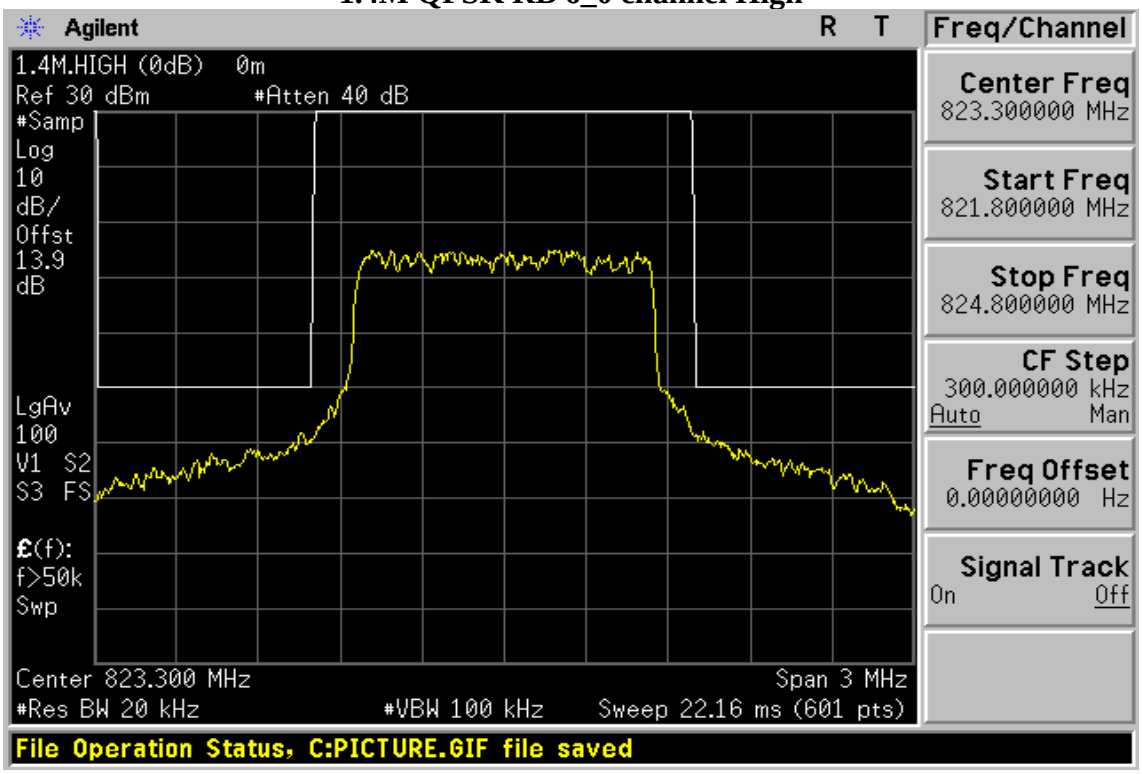
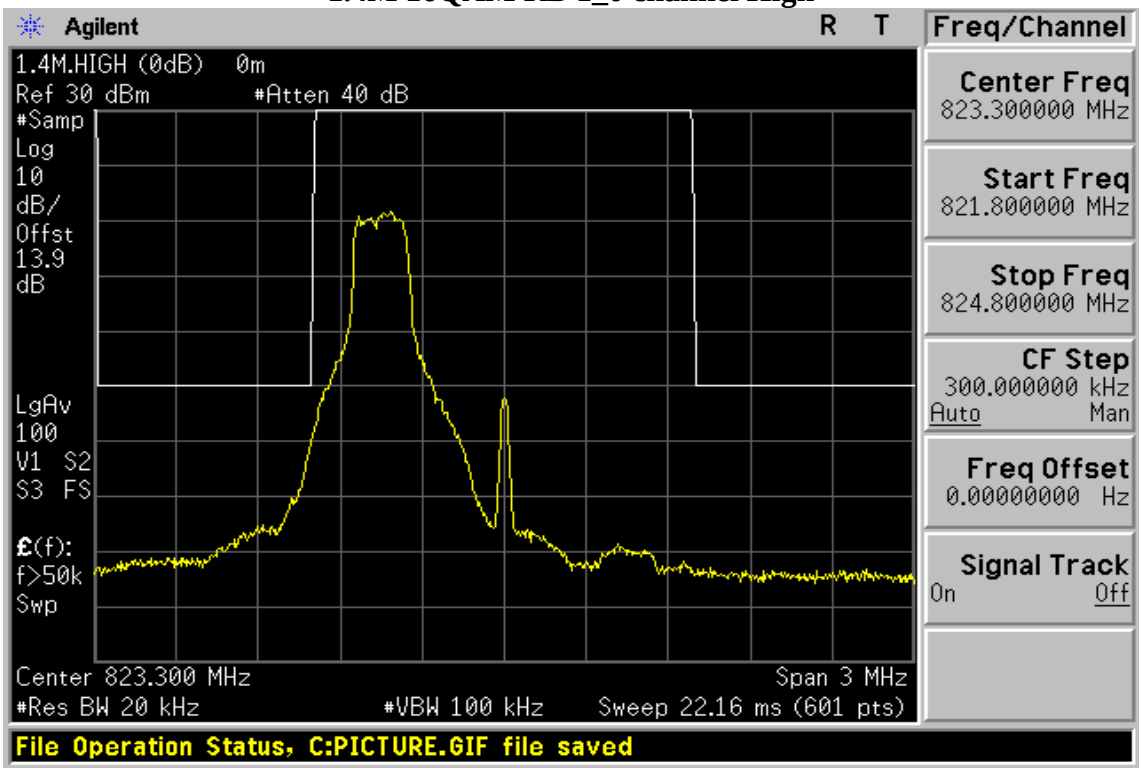
1.4M QPSK RB 6_0 channel High



1.4M 16QAM RB 1_0 channel High



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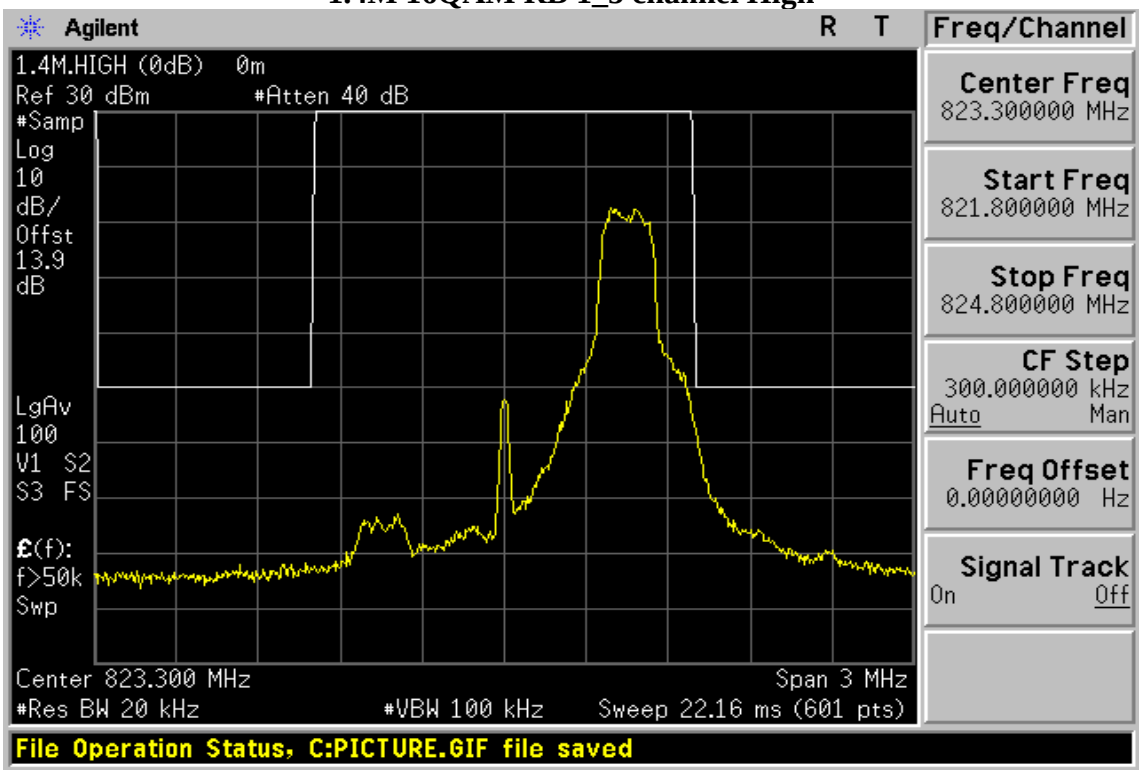
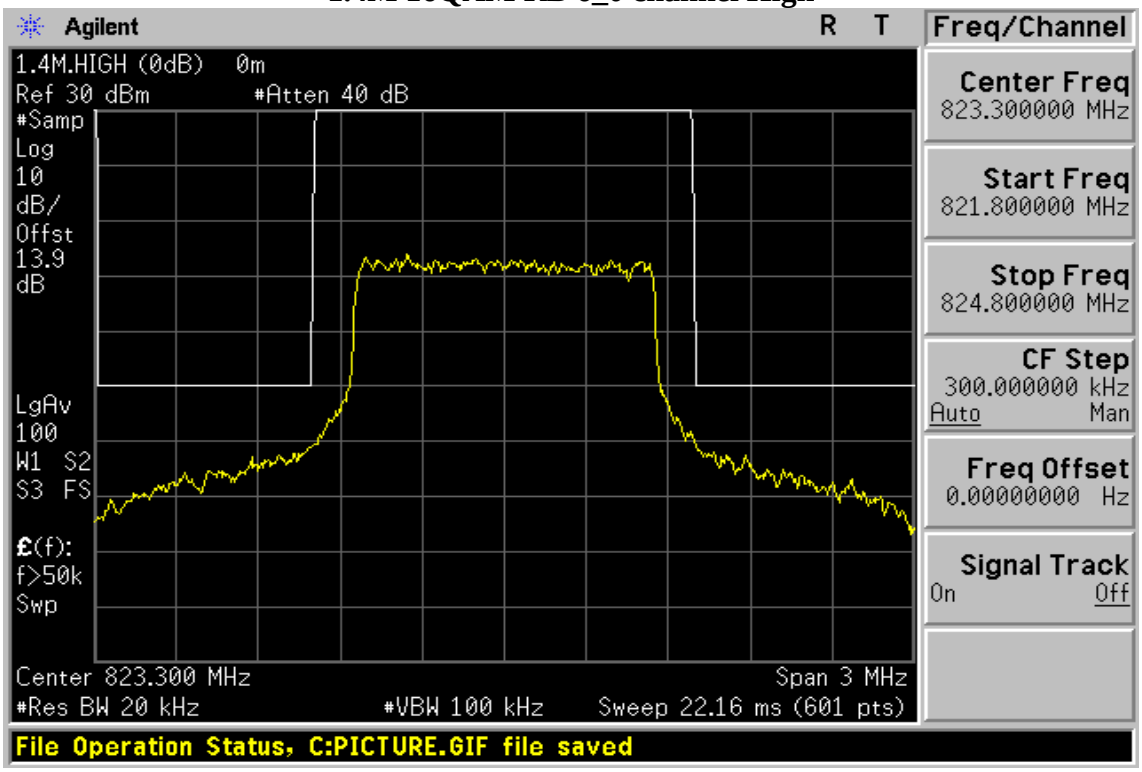
1.4M 16QAM RB 1_5 channel High



1.4M 16QAM RB 6_0 channel High



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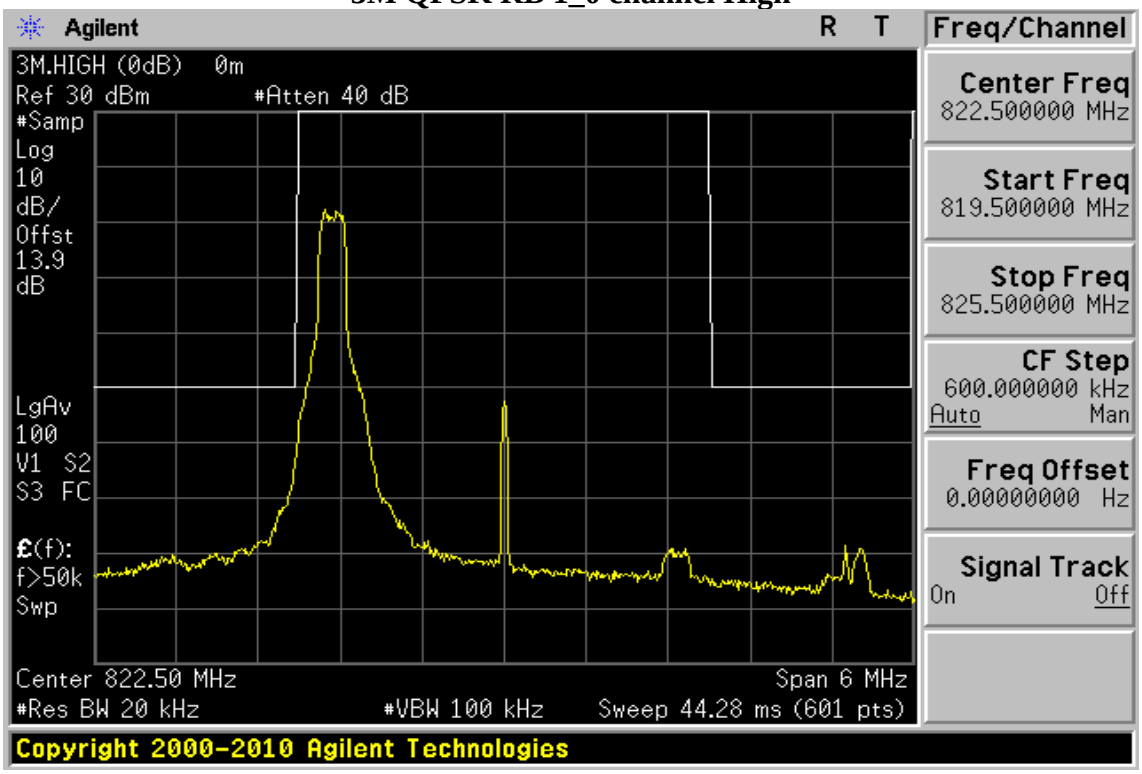
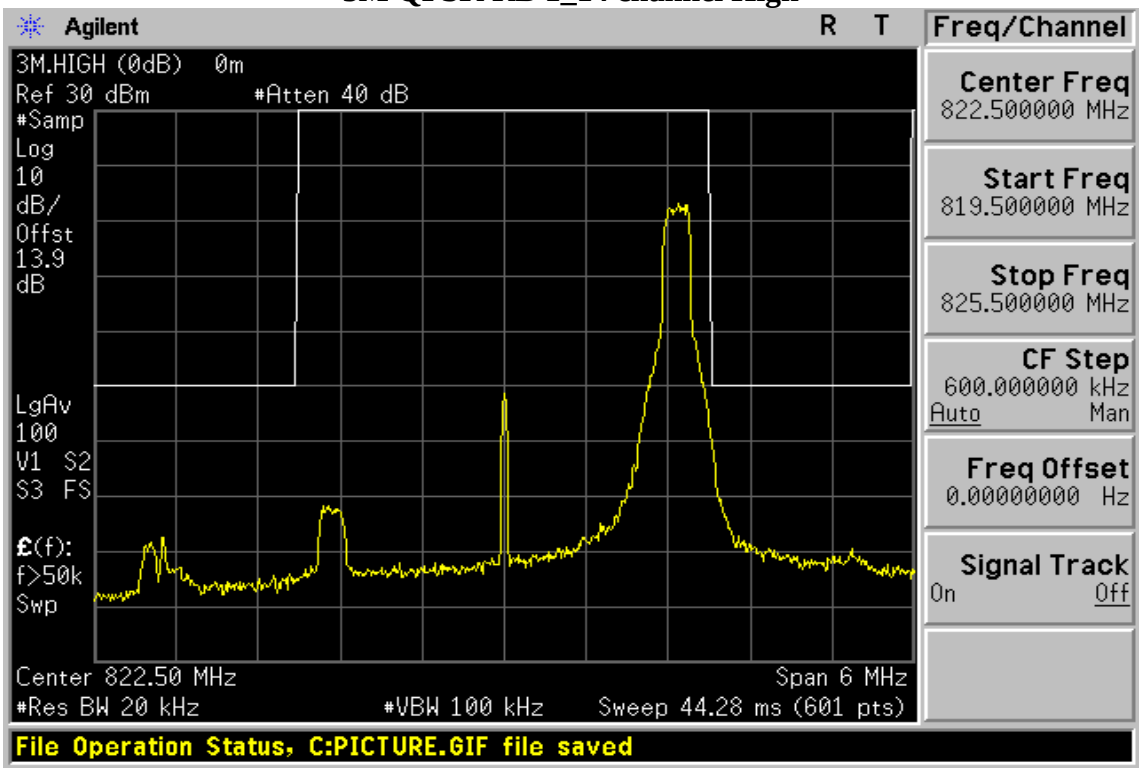
3M QPSK RB 1_0 channel High



3M QPSK RB 1_14 channel High



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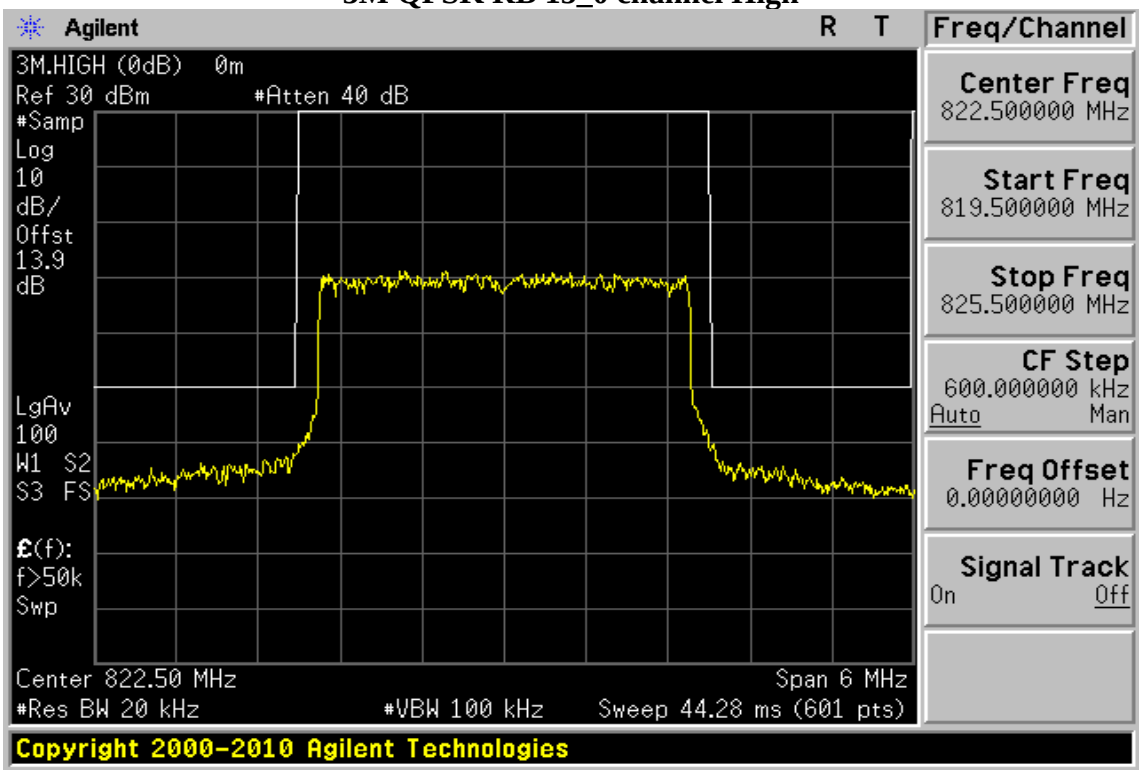
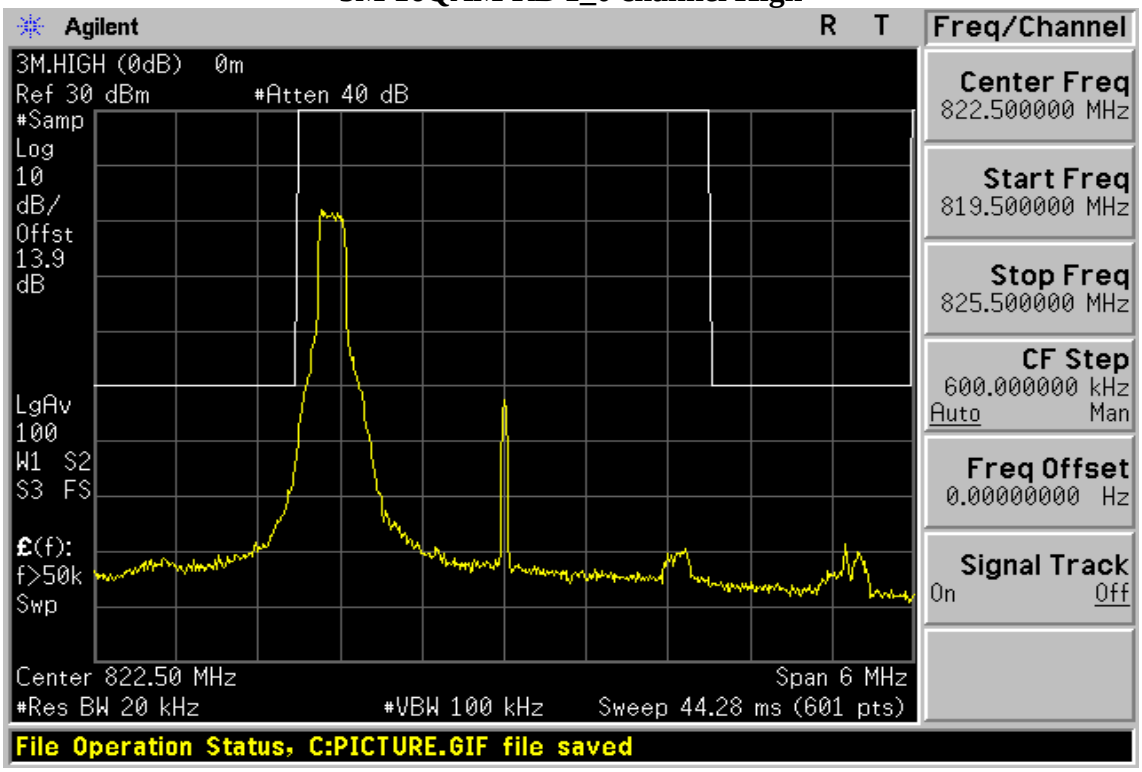
3M QPSK RB 15_0 channel High



3M 16QAM RB 1_0 channel High



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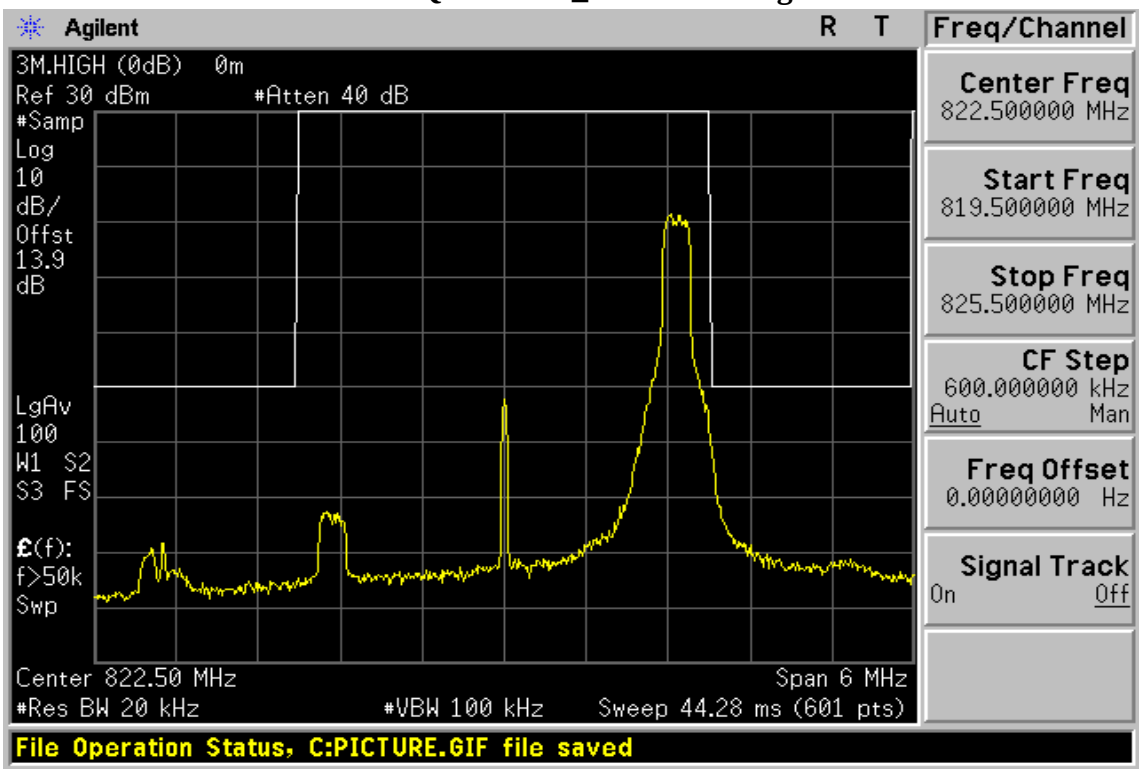
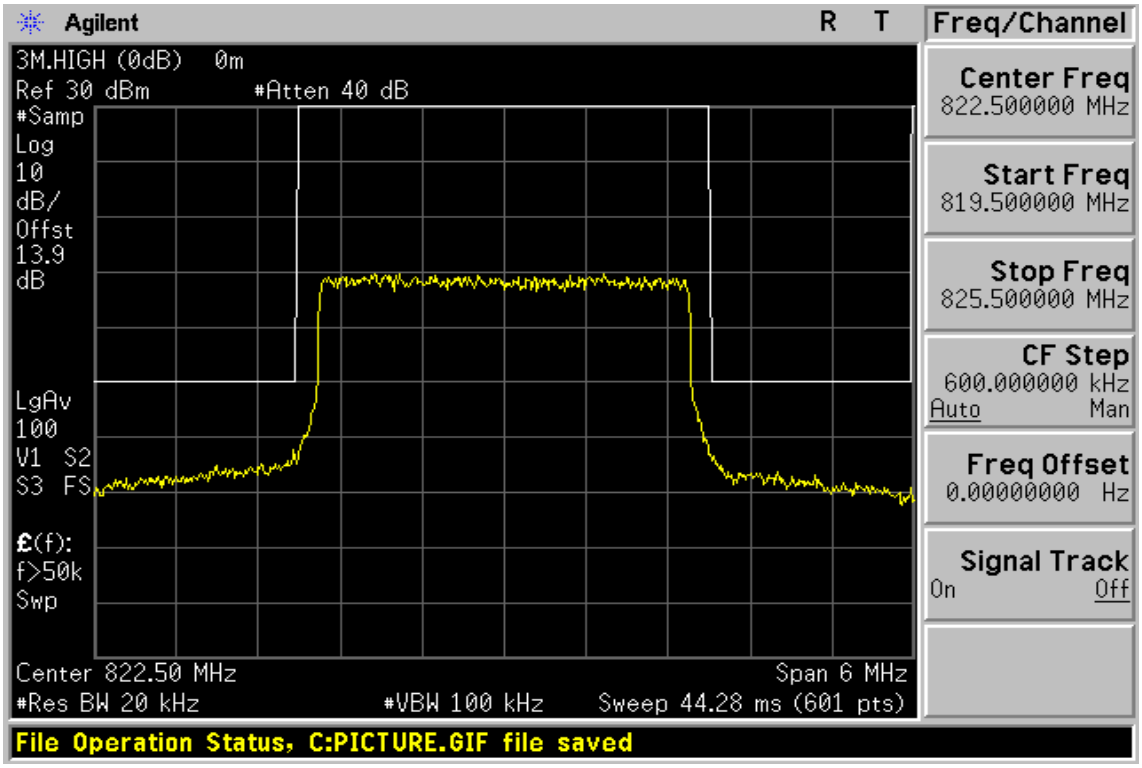
3M 16QAM RB 1_14 channel High



3M 16QAM RB 15_0 channel High



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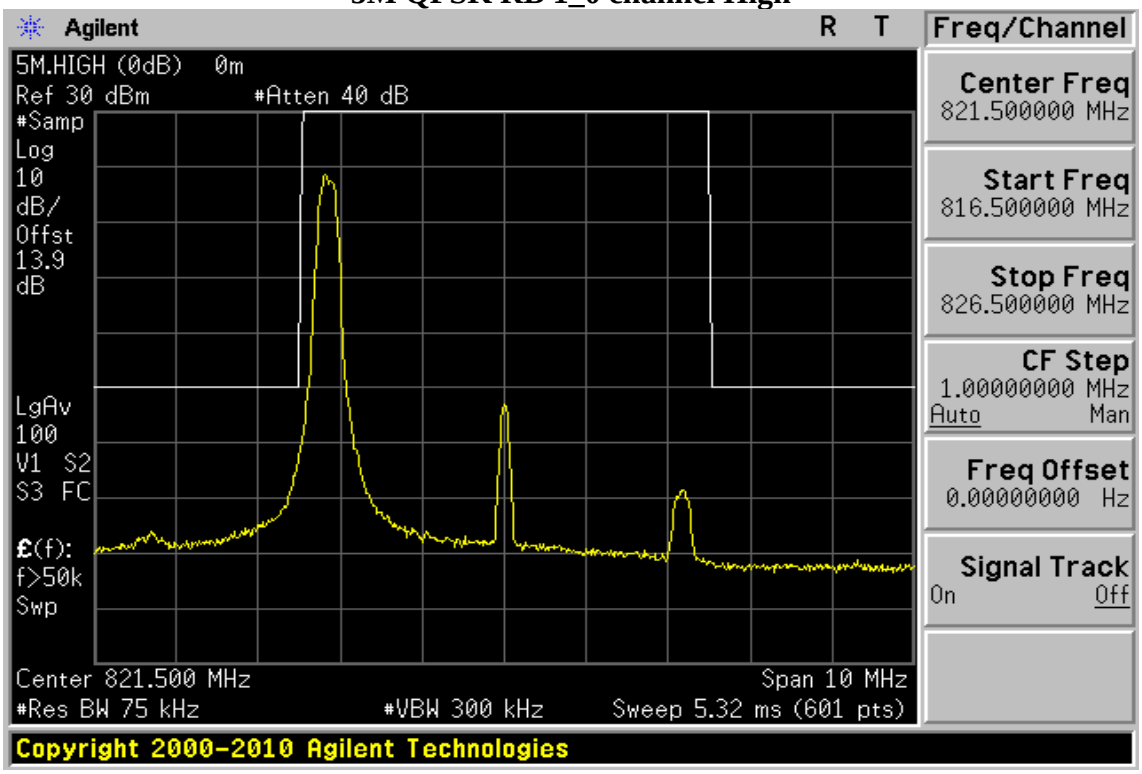
5M QPSK RB 1_0 channel High



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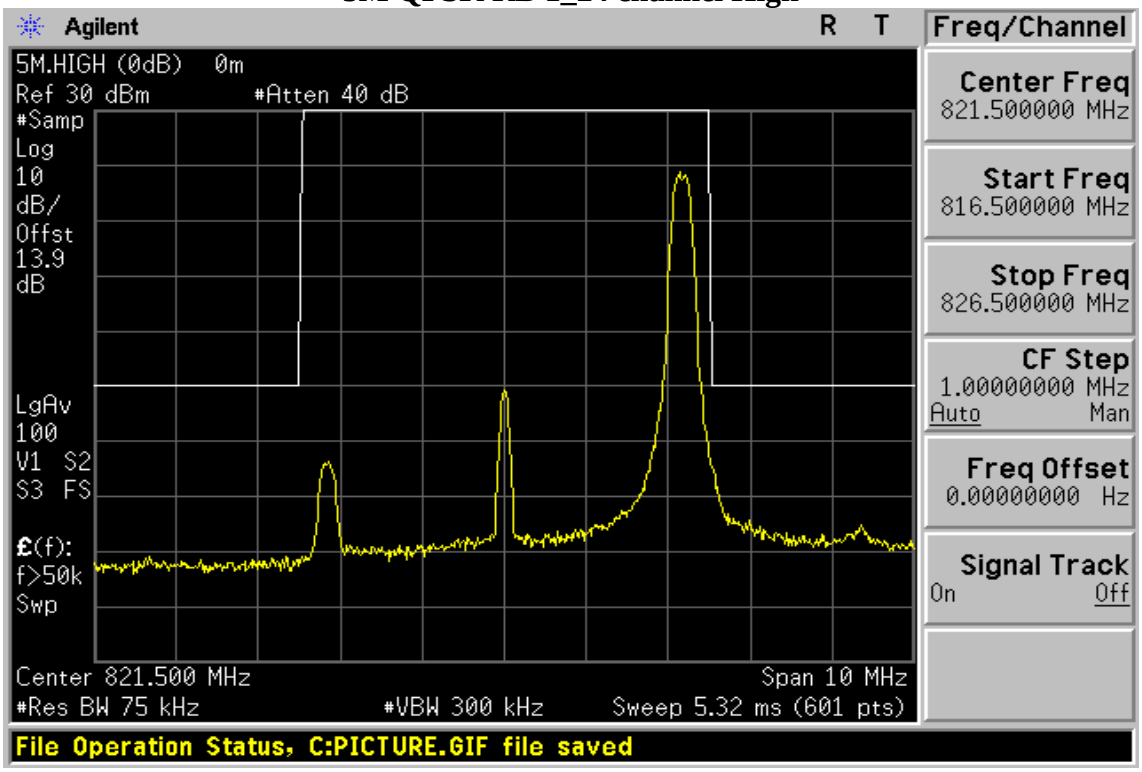

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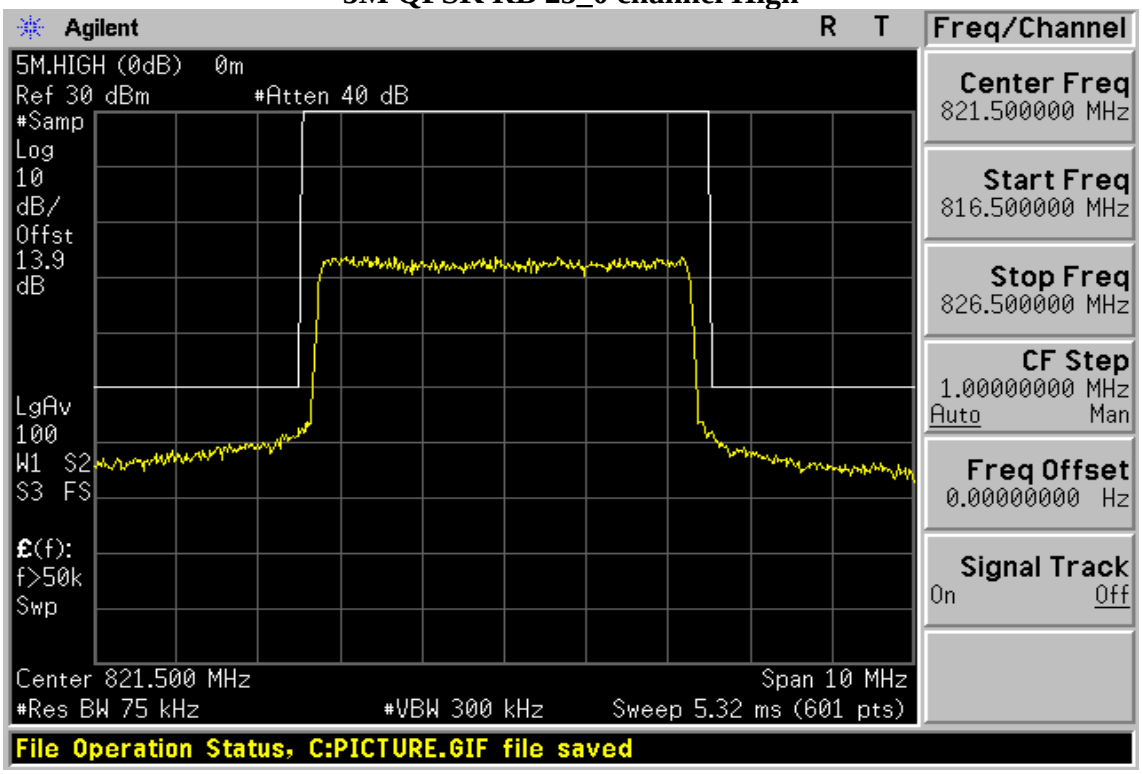
5M QPSK RB 25_0 channel High



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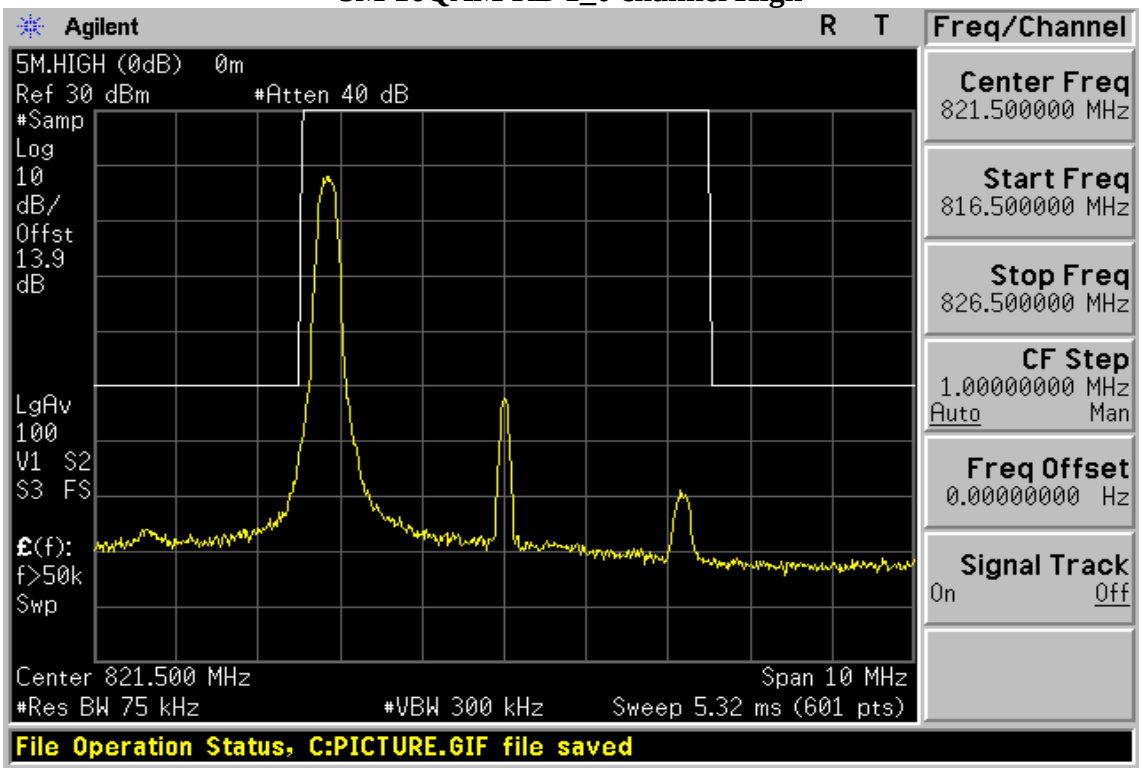

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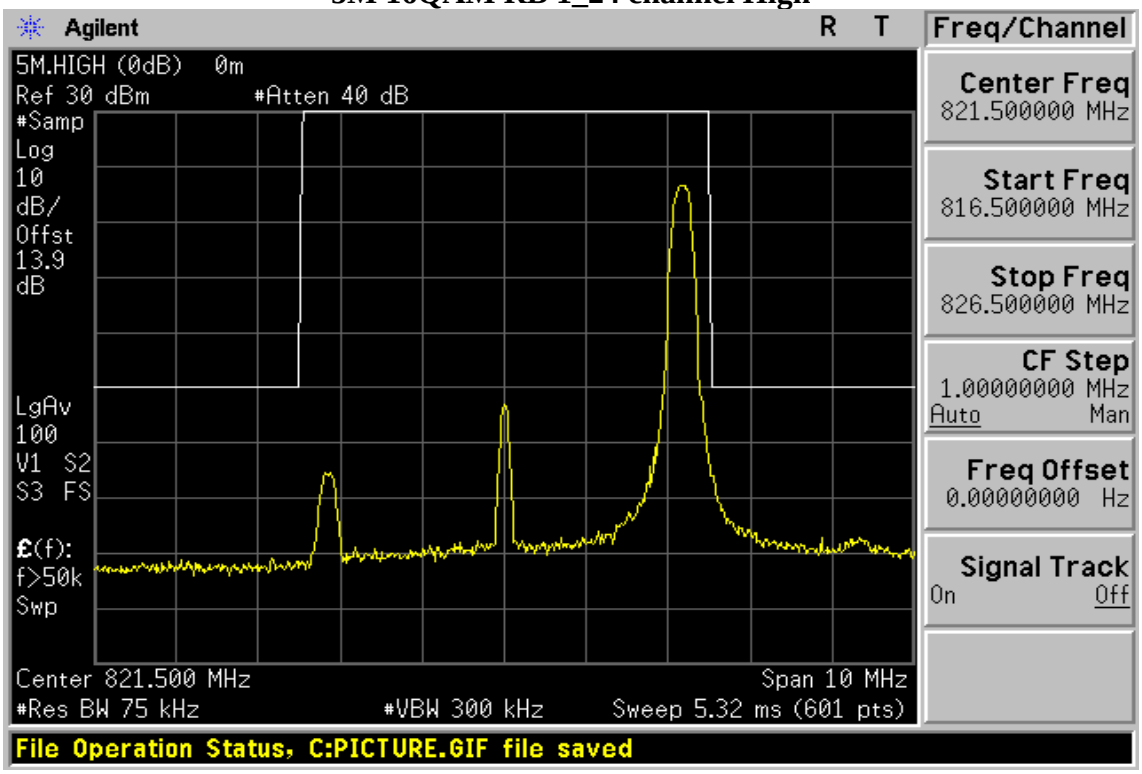
5M 16QAM RB 1_24 channel High



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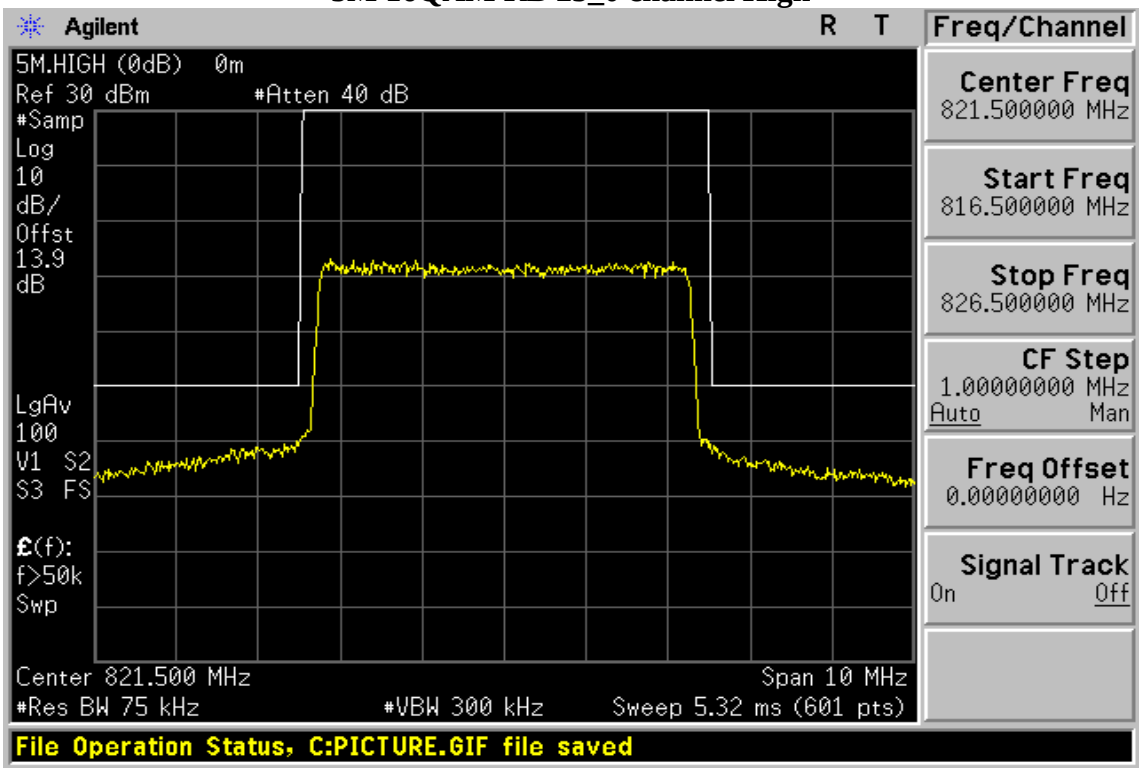

~ End of Report ~

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