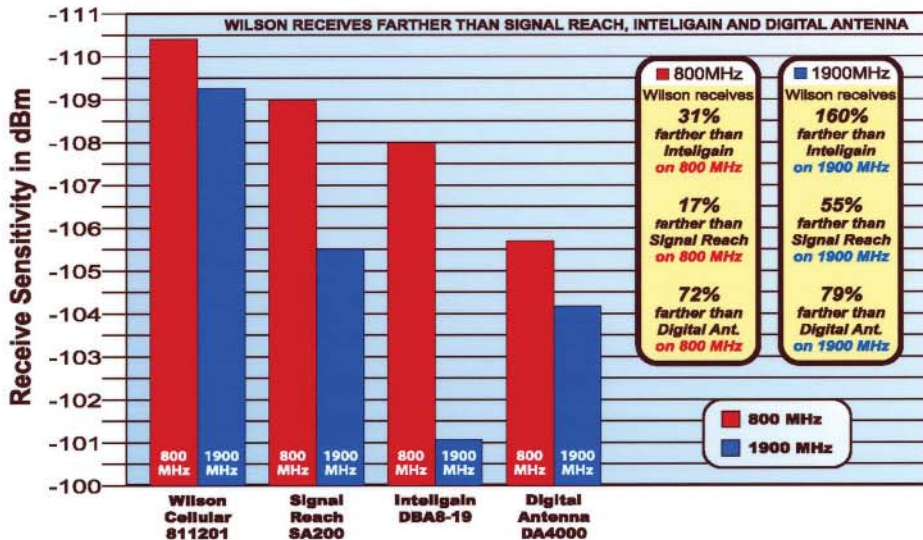


# Tests Show **Wilson Cellular**<sup>®</sup> Amplifiers Outperform **Inteligain**<sup>®</sup>, **Digital Antenna**<sup>®</sup> and **Signal Reach**<sup>®</sup>

Tests by WTS Laboratories<sup>1</sup> Show the Wilson<sup>®</sup> Dual Band Direct Connection Amplifier has More Receiver Sensitivity<sup>2</sup> than others Tested



## Wilson Receives Cellphone Calls Where the Others Can't

Tests by WTS laboratories show that Wilson Cellular Amplifiers have more sensitive receivers than Inteligain, Digital Antenna and Signal Reach. The Wilson Amplifier can receive signals up to **31%** farther in the 800 MHz Band and **160%** farther in the 1900 MHz Band than Inteligain's Dual Band model DBA8-19.<sup>3</sup>

## New Wilson Dual Band Cellular/PCS Amplifier

The new Wilson Dual Band Cellular/PCS Amplifier is the best way to eliminate cellphone disconnections and noise. Our new amplifier solves this problem by channeling all the power from the cellphone to the outside antenna and by increasing your cellphones output power from 1/2 to 3 watts. This amplifier has a better receiver than what's in your cellphone. Its advanced electronics are very sensitive and able to receive small signals which would go undetected by most cellphones. It also has a better transmitter (up to 3 Watts) which is far more powerful than that in your cellphone. This allows your voice to be heard by distant cell sites, increasing coverage up to 50 miles or more. Our new Dual Band Amplifier works with all Cellular/PCS providers.

For Nextel, Southern LINC & Mike use Model# 814001.

<sup>1</sup>WTS Laboratories performs cellphone certification tests for Telus Mobility, Nokia, Motorola, Samsung, and others.  
<sup>2</sup>TIA/EIA-98-E Test 3.5.1, Receiver Sensitivity and Dynamic Range measures the RF sensitivity of a cellphone with each amplifier by determining the minimum received power necessary to assure that the frame error rate (FER) does not exceed a specified value. From any given manufacturer, 4 amplifiers were tested. On each frequency tested, 3 tests were made using different test parameters (e.g. data rates). The sensitivity for each manufacturer's amplifier is calculated separately for each frequency band and is the average of all the measurements made on all of the amplifiers in that band.  
<sup>3</sup>A free space model, line of site, was used for the distance calculations.

To: Wilson Electronics Engineering Department  
 From: Dr. Dwight Hein, PhD, Electrical Engineer  
 Subject: Summation of Cellular Amplifier Receiver Sensitivity Test Conducted at WTS Laboratories  
 Date: August, 20<sup>th</sup>, 2004

Receiver Sensitivity Tests were performed by WTS Laboratories on various Dual Band Cellphone Amplifiers.

The Tests were conducted in the 800 MHz Band (824 - 894 MHz) and the 1900 MHz Band (1850 - 1990 MHz). The average sensitivity was calculated in each band.

WTS tested 4 each of the Amplifiers listed below:

Wilson Cellular Dual Band Cellular Amplifier	Part # 811201 (revision 3.3)
Signal Reach Dual Band Cellular Amplifier	Part # SA200 (2 rev. rev. 2.30 & 1.21)
Digital Antenna Dual Band Cellular Amplifier	Part # DA4000 (revision not indicated)
Inteligain Dual Band Cellular Amplifier	Part # DBA8-19 (2 rev. 00 & 2 rev. not indicated)

Test Results:

800 MHz Average Sensitivity in dBm		
Wilson Cellular	Part # 811201	-110.6
Signal Reach	Part # SA200	-109.9
Inteligain	Part # DBA8-19	-108.9
Digital Antenna	Part # DA4000	-105.7

1900 MHz Average Sensitivity in dBm		
Wilson Cellular	Part # 811201	-109.3
Signal Reach	Part # SA200	-105.2
Digital Antenna	Part # DA4000	-104.2
Inteligain	Part # DBA8-19	-101.7

*Dwight S. Hein, PhD, Electrical Engineer*  
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Test Report



[www.wilsoncellular.com](http://www.wilsoncellular.com) toll free at 1-866-208-5398

