



Test results for FWT-8100 Fixed Wireless Terminal  
Frequency Stability vs. Temperature

Date of Test: April 11, 2001  
Test Engineer: Shahrokh Zardoshti  
Unit Serial Number: 005  
Test Equipment: HP 8920B Radio Test Set  
Temperature Chamber, -50°C to +100°C  
HP E3630A Power Supply

Test Method: The unit under test was connected to an external power supply set at 4.8 volts and the RF output connected to the HP 8920B via a calibrated coaxial cable. The unit under test was placed inside the temperature chamber and the DC leads and RF output cable exited the chamber through an opening made for that purpose.

The chamber was allowed to stabilize for 20 minutes at each temperature before each frequency and power reading was taken with the HP 8920B. A printout from the HP 8920B is included for reference. Test was done in AMPS mode.

Tx Frequency: 836.01 MHz  
Tolerance: +/- 2091 Hz

Temperature (°C)	Frequency (MHz)	Difference (“ Hz)	Output Power (dBm)
60	836.009280	-720	21.24
50	836.010049	49	21.94
40	836.010179	179	22.70
30	836.009917	-83	23.41
20	836.009694	-306	23.73
10	836.009581	-419	24.58
0	836.009800	-200	25.15
-10	836.010740	738	26.06
-20	836.011404	1404	26.62
-30	836.011578	1578	27.40