

FCC ID: ESD-SA824894S3

Exhibit 2

Engineering Report
e)Frequency Stability (2.1055)

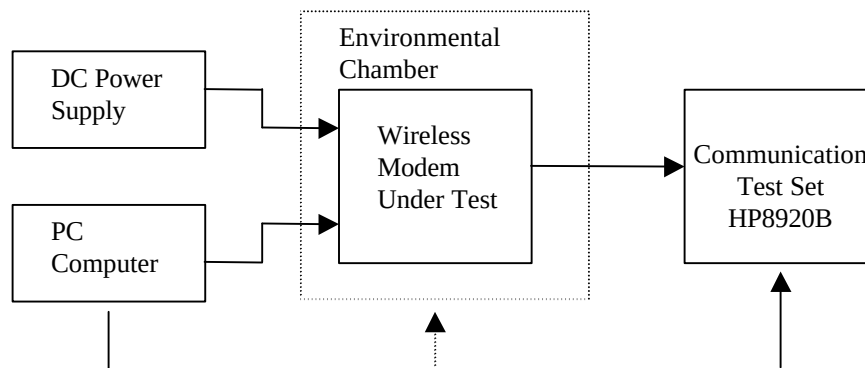
Operation Stability Performance (2.995)

Name of Test:	Operational Stability Performance
FCC ID:	N7NOEM2
Grantee:	Sierra Wireless
Serial No.:	20600052674
Minimum Standard Specified	Para. 22.101 (a)
Equipment Authorization Procedure	Para. 2.995
Test Results	Equipment is Compliant with Standard
Test Equipment	HP8920B Cell Site Test Set Tenney Jr environmental chamber HP3631A DC power supply Zegna 486 PC Computer
Standard Test Frequency	837.00 MHz

Notes : Tolerance = +/- 2091 Hz or 2.5 ppm

Block Diagram of Test Set-up

Measurements were performed using an automated test facility which includes a switch matrix to route transmitter power to the test set. Path loss is accounted for automatically in our test software.



EUT set up in test chamber with temperature probe located adjacent to EUT in chamber center to observe ambient.

NOTE: The EUT has an internal voltage detector which disables the modem if power supply deviates more the 0.25V from nominal. Testing was therefore performed at nominal voltage (5.0V) and the upper and lower threshold of operability permitted by the voltage supervisor, 5.25V and 4.75V respectively.

Measurement Data

Table 1: Tx Stability Varying +5V Supply

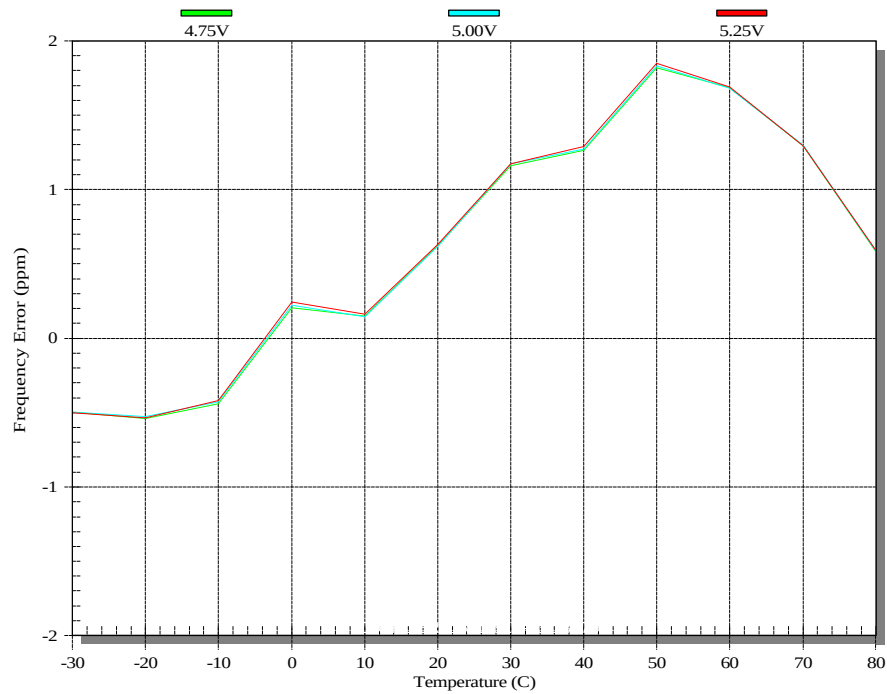
Temp (°C)	Freq. Stability (rated voltage 5.0V) (ppm)	Freq. Stability (max voltage 5.25V) (ppm)	Freq. Stability (min. voltage 4.75V) (ppm)	Worst Case Relative to Rated Freq. Stability (ppm)
-30	-0.50	-0.50	-0.50	-0.50
-20	-0.54	-0.53	-0.54	-0.54
-10	-0.44	-0.43	-0.42	-0.44
0	0.21	0.22	0.24	0.24
10	0.15	0.14	0.16	0.16
20	0.62	0.62	0.63	0.63
30	1.16	1.17	1.17	1.17
40	1.26	1.27	1.29	1.29
50	1.82	1.83	1.85	1.85
60	1.69	1.68	1.69	1.69
70	1.30	1.30	1.30	1.30
80	0.58	0.58	0.59	0.59

Frequency Stability over Temperature and Voltage - 2.995

Worst case

12/02/98 SB300 serial# 0x9B356A5F

- 2.5 ppm.



Test Equipment List

Sierra Wireless, Inc.

<u>Type</u>	<u>Manufacturer and Model No.</u>	<u>Serial no.</u>	<u>Accuracy</u>
Spectrum Analyzer	Hewlett Packard HP8593E Opt. 041, 101, 130	3801A03362	
Cell Site Test Set	Hewlett Packard HP8920B Opt. 001, 004, 006, 013, 102	US37423716	0.05PPM +/-1Hz, +/- 5% +/-0.01mW
Power Supply	Hewlett Packard HP3631A	KR53600263	DCV +/- 0.1% +5mV
Multimeter	Hewlett Packard HP3457A	3114A14978	
Attenuators	Mini-Circuits CAT-10	9406 13	
Thermometer	Fluke 52	3965185	+/- (0.1% reading +/-0.7 deg C)