

Unit: FCC01
Code: FCC02

Frequency stability over voltage testing.

Equipment list:

HP 8901B Modulation Analyzer SN 3226A04221

XL Microwave Rubidium standard model 500 SN 990543481

HP E3602A Dual Power Supply SN KR51302376

Testing occurred at room temperature (approximately 25 degrees C)

Testing date 10/31/99

The unit was tested by varying the primary voltage over the operating range of 2.9 to 3.6. The actual voltage was below a nominal 2.9 Volts. The frequency is independent of transmit voltage. (Frequency generation circuit is before the RF amplifier.)

Primary Voltage (2.9 - 3.6)	Transmit Frequency MHz	PPM Error
2.85	Unit resets	N/A
2.90	Unit resets	N/A
2.95	173.0743	-4.0
3.00	173.0748	-1.2
3.05	173.0750	0.0
3.10	173.0750	0.0
3.15	173.0749	-0.6
3.20	173.0750	0.0
3.25	173.0748	-1.2
3.30	173.0750	0.0
3.35	173.0749	-0.6
3.40	173.0750	0.0
3.45	173.0751	0.6
3.50	173.0751	0.6
3.55	173.0750	0.0
3.60	173.0749	-0.6
3.65	173.0750	0.0

ges were tested from 2.85 to 3.65 for thoroughness. Unit automatically resets
iitry is powered from primary battery. Transmit battery only supplies voltage to