

# Test for Com Dev on Cell Base Station Clock Board.

**FCC ID: JJAGLOBALCELL-IID**

## Frequency vs. Temperature

Measurements by Radio & TV Engineering Co.,

**Norwood J. Patterson, President**

Tuesday, January 04, 2000

Measurement Date: 12/18/1999

Time	Temperature C°	Hertz	Δ Hertz	Comments
0612	20	9,999,993.0	0 (Reference)	TX "ON" Clock Stabilized for 10 seconds
0634	- 30	,996.3	+ 3.3	Clock Stabilized at -30 Deg. Stabilized at -30 C for 13 Min Start Temp up 10 Min. ea. 10°
0645	- 20	,995.8	+ 2.8	
0655	- 10	,994.8	+ 1.8	
0705	- 0	,999.8	+ 0.8	
0715	+ 10	,993.4	+ 0.4	
0725	+ 20	,993.8	- 0.2	
0735	+ 30	,992.6	- 0.3	
0745	+ 40	,992.5	- 0.5	
0755	+ 50	,992.8	- 0.2	
0805	+ 60	,993.2	- 0.2	
				<b><u>Temperature Stabilized</u></b> <b><u>10 min.</u></b> <b><u>At each 10° C change.</u></b> <b><u>before measurement.</u></b>
				<b><u>FCC Spec. is for +/- 15</u></b> <b><u>Hz only</u></b> <b><u>-30° C ~ 60° C.</u></b> <b><u>Max Meas. = Δ+/- 1.85 Hz</u></b> <b><u>.185 pp/m</u></b>

## Notes:

Measurements show compliance with FCC regulations of Frequency Stability of 1.5 PPM.  
The Oscillator made by Vectron International is in compliance with the required specification of.  
15 pp/m -30 to +60 C°. Actually measured +/- .185 pp/m.

File: C:\My Documents \ Com-Dev. Freq. vs Temp

Radio & TV Engineering Co.  
1416 Hollister Lane  
Los Osos, Ca.93402