Nemko Dallas, Inc.

Dallas Headquarters:
802 N. Kealy
Lewisville, TX 75057
Tel: (972) 436-9600
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Frequency Stability

Job No.: 4L0457 Date: 10/20/2005
Specification: 90.213 Temperature(°C): 20
Tested By: David Light Relative Humidity(%) 50
E.U.T.: SMR REPEATER
Configuration: TX CW
Sample Number: 1

Test Equipment Used

Antenna: Directional Coupler:
Pre-Amp: Cable #1: 1629
Filter: Cable #2:
Receiver: 1026 Environmental Chamber: 283
Attenuator #1
Attenuator #2:

Measurement Uncertainty: $1x10^{-17}$ppm **Standard Test Frequency 860.000000 MHz**

Temp (°C)	Measured Frequency (MHz)	Rho	Test Voltage	Freqeuncy Error (Hz)	Limit (+/-Hz)	Error (ppm)	Comment
20	860.000000		120	0	860.0	0	Downlink
20	860.000000		138.0	0	860.0	0.0	
20	860.000000		102.0	0	860.0	0.0	
50	860.000000		120	0	860.0	0.0	
40	860.000000		120	0	860.0	0.0	
30	860.000000		120	0	860.0	0.0	
10	860.000000		120.0	0	860.0	0.0	
0	860.000000		120.0	0	860.0	0.0	
-10	860.000000		120.0	0	860.0	0.0	
-20	860.000000		120	0	860.0	0.0	
-30	860.000000		120	0	860.0	0.0	

Notes: There was no frequency drift.

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Attenuator #1
Attenuator #2:

Measurement Uncertainty: $1x10^{-17}$ppm **Standard Test Frequency 813.000000 MHz**

Temp (°C)	Measured Frequency (MHz)	Rho	Test Voltage	Freqeuncy Error (Hz)	Limit (+/-Hz)	Error (ppm)	Comment
20	813.000000		120	0	813.0	0	Uplink
20	813.000000		138.0	0	813.0	0.0	
20	813.000000		102.0	0	813.0	0.0	
50	813.000000		120	0	813.0	0.0	
40	813.000000		120	0	813.0	0.0	
30	813.000000		120	0	813.0	0.0	
10	813.000000		120.0	0	813.0	0.0	
0	813.000000		120.0	0	813.0	0.0	
-10	813.000000		120.0	0	813.0	0.0	
-20	813.000000		120	0	813.0	0.0	
-30	813.000000		120	0	813.0	0.0	

Notes: There was no frequency drift.