

Appendix G-Frequency Stability
Test Data:

Frequency Stability vs temperature:

1. Test for FDD LTE Band 12 Downlink (Middle Channel: 737.5MHz)

Temperature (°C)	Voltage (V ac)	Frequency Error (Hz)	Tolerance (ppm)
50	120	32.34	0.0439
40	120	40.68	0.0552
30	120	68.54	0.0929
20	120	73.98	0.1003
10	120	47.80	0.0648
0	120	32.68	0.0443
-10	120	77.67	0.1053
-20	120	41.23	0.0559
-30	120	41.77	0.0566

Frequency Stability vs voltage:

1. Test for FDD LTE Band 12 Downlink (Middle Channel: 737.5MHz)

Voltage (V ac)	Voltage (V ac)	Frequency Error (Hz)	Tolerance (ppm)
108	20	17.68	0.0240
120	20	73.98	0.1003
132	20	88.76	0.1204



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Frequency Stability vs temperature:

1. Test for FDD LTE Band 13 Downlink (Middle Channel: 751.0MHz)

Temperature (°C)	Frequency Error (Hz)	Tolerance (ppm)
50	10.90	0.0145
40	65.69	0.0875
30	30.55	0.0407
20	32.75	0.0436
10	81.82	0.1089
0	26.57	0.0354
-10	82.24	0.1095
-20	53.29	0.0710
-30	16.73	0.0223

Frequency Stability vs voltage:

1. Test for FDD LTE Band 13 Downlink (Middle Channel: 751.0MHz)

Voltage (V ac)	Frequency Error (Hz)	Tolerance (ppm)
108	14.13	0.0188
120	69.84	0.0930
132	33.70	0.0449



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Frequency Stability vs temperature:

1. Test for FDD LTE Band 14 Downlink (Middle Channel: 763.0MHz)

Temperature (°C)	Frequency Error (Hz)	Tolerance (ppm)
50	23.90	0.0313
40	43.40	0.0569
30	71.23	0.0934
20	65.97	0.0865
10	16.70	0.0219
0	23.97	0.0314
-10	97.27	0.1275
-20	45.28	0.0593
-30	75.83	0.0994

Frequency Stability vs voltage:

1. Test for FDD LTE Band 14 Downlink (Middle Channel: 763.0MHz)

Voltage (V ac)	Frequency Error (Hz)	Tolerance (ppm)
108	97.30	0.1275
120	54.64	0.0716
132	44.36	0.0581



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