



Appendix G

Frequency Stability According to FCC Part 2.1055& Part 22.355



Frequency Error vs. Temperature:

NOTE: All relevant operation modes have been tested, and the worst case data is included in this report.

Table 1 Measurement Results CDMA&EVDO

Test Mode	RF Ch.	Volt.	Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Freq. vs. 20 °C [ppm]	Limit [ppm]	Verdict
TM 1	M	VN	-30 °C	25	0.02989	---	±2.5	Pass
			-20 °C	46	0.05499	---	±2.5	Pass
			-10 °C	31	0.03706	---	±2.5	Pass
			0 °C	11	0.01315	---	±2.5	Pass
			10 °C	-14	-0.01674	---	±2.5	Pass
			20 °C	-45	-0.05379	---	±2.5	Pass
			30 °C	-47	-0.05619	---	±2.5	Pass
			40 °C	31	0.03706	---	±2.5	Pass
			50 °C	21	0.02510	---	±2.5	Pass
TM 3	M	VN	-30 °C	-42	-0.05021	---	±2.5	Pass
			-20 °C	44	0.05260	---	±2.5	Pass
			-10 °C	-22	-0.02630	---	±2.5	Pass
			0 °C	-46	-0.05499	---	±2.5	Pass
			10 °C	-42	-0.05021	---	±2.5	Pass
			20 °C	31	0.03706	---	±2.5	Pass
			30 °C	35	0.04184	---	±2.5	Pass
			40 °C	25	0.02989	---	±2.5	Pass
			50 °C	46	0.05499	---	±2.5	Pass
Subtype 0	M	VN	-30 °C	22	0.02630	---	±2.5	Pass
			-20 °C	13	0.01554	---	±2.5	Pass
			-10 °C	-29	-0.03467	---	±2.5	Pass
			0 °C	-13	-0.01554	---	±2.5	Pass
			10 °C	22	0.02630	---	±2.5	Pass
			20 °C	65	0.07770	---	±2.5	Pass
			30 °C	36	0.04304	---	±2.5	Pass
			40 °C	17	0.02032	---	±2.5	Pass
			50 °C	14	0.01674	---	±2.5	Pass
Subtype 2	M	VN	-30 °C	18	0.02152	---	±2.5	Pass
			-20 °C	-38	-0.04543	---	±2.5	Pass
			-10 °C	-40	-0.04782	---	±2.5	Pass
			0 °C	35	0.04184	---	±2.5	Pass
			10 °C	27	0.03228	---	±2.5	Pass



Test Mode	RF Ch.	Volt.	Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Freq. vs. 20 °C [ppm]	Limit [ppm]	Verdict
			20 °C	-29	-0.03467	---	±2.5	Pass
			30 °C	35	0.04184	---	±2.5	Pass
			40 °C	-26	-0.03108	---	±2.5	Pass
			50 °C	-20	-0.02391	---	±2.5	Pass



Table 2 Measurement Results (LTE) BAND 5

Test Mode	RF Ch.	Volt.	Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Freq. vs. 20 °C [ppm]	Limit [ppm]	Verdict
TM 4(1.4M)	M	VN	-30 °C	21	0.02511	---	±2.5	Pass
			-20 °C	-18	-0.02152	---	±2.5	Pass
			-10 °C	29	0.03467	---	±2.5	Pass
			0 °C	26	0.03108	---	±2.5	Pass
			10 °C	-22	-0.0263	---	±2.5	Pass
			20 °C	-18	-0.02152	---	±2.5	Pass
			30 °C	23	0.02750	---	±2.5	Pass
			40 °C	22	0.02630	---	±2.5	Pass
TM 4(3M)	M	VN	50 °C	-19	-0.02271	---	±2.5	Pass
			-30 °C	-11	-0.01315	---	±2.5	Pass
			-20 °C	-18	-0.02152	---	±2.5	Pass
			-10 °C	26	0.03108	---	±2.5	Pass
			0 °C	25	0.02989	---	±2.5	Pass
			10 °C	24	0.02869	---	±2.5	Pass
			20 °C	29	0.03467	---	±2.5	Pass
			30 °C	28	0.03347	---	±2.5	Pass
TM 4(5M)	M	VN	40 °C	19	0.02271	---	±2.5	Pass
			50 °C	-26	-0.03108	---	±2.5	Pass
			-30 °C	21	0.02511	---	±2.5	Pass
			-20 °C	-6	-0.00717	---	±2.5	Pass
			-10 °C	24	0.02869	---	±2.5	Pass
			0 °C	-21	-0.0251	---	±2.5	Pass
			10 °C	23	0.02750	---	±2.5	Pass
			20 °C	24	0.02869	---	±2.5	Pass
TM 4(10M)	M	VN	30 °C	-20	-0.02391	---	±2.5	Pass
			40 °C	25	0.02989	---	±2.5	Pass
			50 °C	31	0.03706	---	±2.5	Pass
			-30 °C	23	0.02750	---	±2.5	Pass
			-20 °C	-16	-0.01913	---	±2.5	Pass
			-10 °C	27	0.03228	---	±2.5	Pass
			0 °C	25	0.02989	---	±2.5	Pass
			10 °C	28	0.03347	---	±2.5	Pass
			20 °C	-26	-0.03108	---	±2.5	Pass
			30 °C	28	0.03347	---	±2.5	Pass
			40 °C	23	0.02750	---	±2.5	Pass
			50 °C	-25	-0.02989	---	±2.5	Pass



Frequency Error vs. Voltage:

Table 3 Measurement Results CDMA&EVDO

Test Mode	RF Ch.	Temp.	Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Freq. vs. 20 °C [ppm]	Limit [ppm]	Verdict
TM 1	M	TN	VL	36	0.04304	---	±2.5	Pass
			VN	-32	-0.03825	---	±2.5	Pass
			VH	21	0.02510	---	±2.5	Pass
TM 3	M	TN	VL	-30	-0.03586	---	±2.5	Pass
			VN	42	0.05021	---	±2.5	Pass
			VH	-37	-0.04423	---	±2.5	Pass
Subtype 0	M	TN	VL	-42	-0.05021	---	±2.5	Pass
			VN	26	0.03108	---	±2.5	Pass
			VH	19	0.02271	---	±2.5	Pass
Subtype 2	M	TN	VL	-38	-0.04543	---	±2.5	Pass
			VN	18	0.02152	---	±2.5	Pass
			VH	-39	-0.04662	---	±2.5	Pass

Table 4 Measurement Results (LTE) BAND 5

Test Mode	RF Ch.	Temp.	Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Freq. vs. 20 °C [ppm]	Limit [ppm]	Verdict
TM4(1.4M)	M	TN	VL	31	0.03706	---	±2.5	Pass
			VN	-14	-0.01674	---	±2.5	Pass
			VH	36	0.04304	---	±2.5	Pass
TM4(3M)	M	TN	VL	20	0.02391	---	±2.5	Pass
			VN	-16	-0.01913	---	±2.5	Pass
			VH	47	0.05619	---	±2.5	Pass
TM4(5M)	M	TN	VL	-18	-0.02152	---	±2.5	Pass
			VN	17	0.02032	---	±2.5	Pass
			VH	30	0.03586	---	±2.5	Pass
TM4(10M)	M	TN	VL	22	0.0263	---	±2.5	Pass
			VN	-15	-0.01793	---	±2.5	Pass
			VH	16	0.01913	---	±2.5	Pass

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