



---

# Appendix G

## Frequency Stability

According to FCC Part 2.1055 & Part 22.355 & RSS-

132



## Frequency Error vs. Temperature:

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	-15	-0.01793	---	±2.5	Pass
			-20 °C	24	0.02869	---	±2.5	Pass
			-10 °C	18	0.02152	---	±2.5	Pass
			0 °C	18	0.02152	---	±2.5	Pass
			10 °C	-14	-0.01674	---	±2.5	Pass
			20 °C	25	0.02989	---	±2.5	Pass
			30 °C	7	0.00837	---	±2.5	Pass
			40 °C	-13	-0.01554	---	±2.5	Pass
TM4(1.4 M)	M	VN	50 °C	-23	-0.02750	---	±2.5	Pass
			-30 °C	-10	-0.01195	---	±2.5	Pass
			-20 °C	9	0.01076	---	±2.5	Pass
			-10 °C	-6	-0.00717	---	±2.5	Pass
			0 °C	11	0.01315	---	±2.5	Pass
			10 °C	10	0.01195	---	±2.5	Pass
			20 °C	-19	-0.02271	---	±2.5	Pass
			30 °C	-20	-0.02391	---	±2.5	Pass
TM4(3M)	M	VN	40 °C	-19	-0.02271	---	±2.5	Pass
			50 °C	-16	-0.01913	---	±2.5	Pass
			-30 °C	-8	-0.00956	---	±2.5	Pass
			-20 °C	-12	-0.01435	---	±2.5	Pass
			-10 °C	-24	-0.02869	---	±2.5	Pass
			0 °C	21	0.02510	---	±2.5	Pass
			10 °C	-20	-0.02391	---	±2.5	Pass
			20 °C	-18	-0.02152	---	±2.5	Pass
TM4(5M)	M	VN	30 °C	-15	-0.01793	---	±2.5	Pass
			40 °C	28	0.03347	---	±2.5	Pass
			50 °C	11	0.01315	---	±2.5	Pass
			-30 °C	28	0.03347	---	±2.5	Pass
			-20 °C	-9	-0.01076	---	±2.5	Pass
			-10 °C	9	0.01076	---	±2.5	Pass
			0 °C	-21	-0.02510	---	±2.5	Pass
			10 °C	17	0.02032	---	±2.5	Pass
TM4(10)	M	VN	20 °C	-11	-0.01315	---	±2.5	Pass
			30 °C	29	0.03467	---	±2.5	Pass
			40 °C	-25	-0.02989	---	±2.5	Pass
			50 °C	-10	-0.01195	---	±2.5	Pass



M)	-20 °C	9	0.01076	---	±2.5	Pass
	-10 °C	-6	-0.00717	---	±2.5	Pass
	0 °C	11	0.01315	---	±2.5	Pass
	10 °C	10	0.01195	---	±2.5	Pass
	20 °C	-19	-0.02271	---	±2.5	Pass
	30 °C	-20	-0.02391	---	±2.5	Pass
	40 °C	-19	-0.02271	---	±2.5	Pass
	50 °C	-16	-0.01913	---	±2.5	Pass



## Frequency Error vs. Voltage:

Test Mode	RF Ch.	Temp.	Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Freq. vs. 20 °C [ppm]	Limit [ppm]	Verdict
TM 1	M	20 °C	VL	9	0.01076	---	±2.5	Pass
			VN	16	0.01913	---	±2.5	Pass
			VH	26	0.03109	---	±2.5	Pass
TM4(1.4 M)	M	20 °C	VL	21	0.02511	---	±2.5	Pass
			VN	7	0.00837	---	±2.5	Pass
			VH	-17	-0.02033	---	±2.5	Pass
TM4(3M)	M	20 °C	VL	22	0.02630	---	±2.5	Pass
			VN	15	0.01793	---	±2.5	Pass
			VH	18	0.02152	---	±2.5	Pass
TM4(5M)	M	20 °C	VL	20	0.02391	---	±2.5	Pass
			VN	17	0.02033	---	±2.5	Pass
			VH	-14	-0.01674	---	±2.5	Pass
TM4(10 M)	M	20 °C	VL	-13	-0.01554	---	±2.5	Pass
			VN	25	0.02989	---	±2.5	Pass
			VH	28	0.03348	---	±2.5	Pass

-----The END-----