



Band12-10MHz-16QAM-23130-1-0-High-1000-5000--35.77-PASS



Band12-10MHz-16QAM-23130-1-0-High-5000-12000--37.21-PASS



Band12-10MHz-16QAM-23130-1-0-High-12000-26500--25.02-PASS

Appendix F: Frequency Stability

Test Result

Frequency Error VS. Voltage

Test Band	Test mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
CatM1 band12	QPSK/ 10MHz	LCH	TN	VL	0.37	0.00053	PASS
				VN	0.6	0.00086	PASS
				VH	-0.05	-0.00007	PASS
		MCH	TN	VL	1.27	0.00180	PASS
				VN	0.37	0.00053	PASS
				VH	0.61	0.00087	PASS
		HCH	TN	VL	1.06	0.00148	PASS
				VN	0.78	0.00109	PASS
				VH	1.16	0.00162	PASS
	16QAM/ 10MHz	LCH	TN	VL	0.31	0.00044	PASS
				VN	1.63	0.00233	PASS
				VH	0.86	0.00123	PASS
		MCH	TN	VL	0.72	0.00102	PASS
				VN	0.31	0.00044	PASS
				VH	-0.23	-0.00033	PASS
		HCH	TN	VL	0.44	0.00062	PASS
				VN	-1.17	-0.00164	PASS
				VH	0.38	0.00053	PASS

Frequency Error VS. Temperature

Test Band	Test mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
CatM1 band12	QPSK/ 10MHz	LCH	VN	-30	-0.11	-0.00016	PASS
				-20	-0.34	-0.00049	PASS
				-10	-0.14	-0.00020	PASS
				0	0.49	0.00070	PASS
				10	-0.09	-0.00013	PASS
				20	-0.28	-0.00040	PASS
				30	-0.86	-0.00123	PASS
				40	-0.48	-0.00069	PASS
				50	-0.54	-0.00077	PASS
		MCH	VN	-30	-0.68	-0.00097	PASS
				-20	-0.65	-0.00092	PASS
				-10	0.04	0.00006	PASS
				0	-0.45	-0.00064	PASS
				10	0.42	0.00060	PASS
				20	0.05	0.00007	PASS
				30	1.17	0.00166	PASS
				40	0.33	0.00047	PASS
				50	-0.53	-0.00075	PASS
		HCH	VN	-30	0.08	0.00011	PASS
				-20	-0.52	-0.00073	PASS
				-10	0.04	0.00006	PASS
				0	-1.21	-0.00169	PASS
				10	-1.36	-0.00190	PASS
				20	-0.04	-0.00006	PASS
				30	-1.37	-0.00192	PASS
				40	-1.15	-0.00161	PASS
				50	-0.87	-0.00122	PASS

Test Band	Test mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
CatM1 band12	16QAM/ 10MHz	LCH	VN	-30	0.5	0.00071	PASS
				-20	0.69	0.00099	PASS
				-10	-0.56	-0.00080	PASS
				0	-0.85	-0.00121	PASS
				10	0.68	0.00097	PASS
				20	0.74	0.00106	PASS
				30	0.66	0.00094	PASS
				40	0.53	0.00076	PASS
				50	0.88	0.00126	PASS
		MCH	VN	-30	-0.44	-0.00063	PASS
				-20	-0.43	-0.00061	PASS
				-10	0.79	0.00112	PASS
				0	-0.49	-0.00070	PASS
				10	-1.2	-0.00171	PASS
				20	0.84	0.00119	PASS
				30	0.45	0.00064	PASS
				40	-0.37	-0.00053	PASS
				50	0.35	0.00050	PASS
		HCH	VN	-30	-0.34	-0.00048	PASS
				-20	-0.07	-0.00010	PASS
				-10	0.42	0.00059	PASS
				0	-0.71	-0.00099	PASS
				10	-0.56	-0.00078	PASS
				20	-0.1	-0.00014	PASS
				30	-0.41	-0.00057	PASS
				40	-0.32	-0.00045	PASS
				50	-1.35	-0.00189	PASS

- End of the Appendix -