

Appendix -

Frequency stability Test Data and Result for report GZCR240600070102



SGS-CSTC Standards Technical Services Co., Ltd.
Guangzhou Branch EMC Laboratory

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6.1 Test result.

Test Band	Test mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
CatM1 Band2	QPSK/ 20MHz	LCH	TN	VL	1.35	0.00073	PASS
				VN	1.12	0.00060	PASS
				VH	1.02	0.00055	PASS
		MCH	TN	VL	-0.98	-0.00052	PASS
				VN	1.27	0.00068	PASS
				VH	1.35	0.00072	PASS
		HCH	TN	VL	1.42	0.00075	PASS
				VN	1.26	0.00066	PASS
				VH	1.35	0.00071	PASS
	16QAM/ 20MHz	LCH	TN	VL	2.72	0.00146	PASS
				VN	0.93	0.00050	PASS
				VH	1.24	0.00067	PASS
		MCH	TN	VL	-0.94	-0.00050	PASS
				VN	1.68	0.00089	PASS
				VH	1.27	0.00068	PASS
		HCH	TN	VL	-1.76	-0.00093	PASS
				VN	-1.85	-0.00097	PASS
				VH	1.02	0.00054	PASS



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Test Band	Test mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
CatM1 Band4	QPSK/ 20MHz	LCH	TN	VL	1.26	0.00073	PASS
				VN	-0.94	-0.00055	PASS
				VH	1.68	0.00098	PASS
		MCH	TN	VL	1.27	0.00073	PASS
				VN	1.64	0.00095	PASS
				VH	-0.76	-0.00044	PASS
		HCH	TN	VL	1.68	0.00096	PASS
				VN	-0.72	-0.00041	PASS
				VH	-0.95	-0.00054	PASS
	16QAM/ 20MHz	LCH	TN	VL	2.19	0.00127	PASS
				VN	1.85	0.00108	PASS
				VH	-0.46	-0.00027	PASS
		MCH	TN	VL	1.68	0.00097	PASS
				VN	-0.72	-0.00042	PASS
				VH	1.92	0.00111	PASS
		HCH	TN	VL	-1.41	-0.00081	PASS
				VN	0.82	0.00047	PASS
				VH	2.17	0.00124	PASS



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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	1.41	0.00200	PASS
				VN	1.35	0.00192	PASS
				VH	1.77	0.00251	PASS
		MCH	TN	VL	1.26	0.00178	PASS
				VN	1.68	0.00237	PASS
				VH	-0.72	-0.00102	PASS
		HCH	TN	VL	1.87	0.00263	PASS
				VN	-0.97	-0.00136	PASS
				VH	1.68	0.00236	PASS
	16QAM/ 10MHz	LCH	TN	VL	-0.72	-0.00102	PASS
				VN	1.68	0.00239	PASS
				VH	-0.72	-0.00102	PASS
		MCH	TN	VL	1.78	0.00252	PASS
				VN	-0.98	-0.00139	PASS
				VH	1.49	0.00211	PASS
		HCH	TN	VL	-0.87	-0.00122	PASS
				VN	1.41	0.00200	PASS
				VH	1.35	0.00192	PASS



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Test Band	Test mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
CatM1 Band13	QPSK/ 10MHz	LCH	TN	VL	1.87	0.00266	PASS
				VN	-0.87	-0.00124	PASS
				VH	-0.98	-0.00139	PASS
		MCH	TN	VL	1.91	0.00270	PASS
				VN	0.93	0.00131	PASS
				VH	1.26	0.00178	PASS
		HCH	TN	VL	1.54	0.00217	PASS
				VN	-0.94	-0.00132	PASS
				VH	1.72	0.00242	PASS
	16QAM/ 10MHz	LCH	TN	VL	-0.72	-0.00102	PASS
				VN	-0.46	-0.00065	PASS
				VH	1.43	0.00203	PASS
		MCH	TN	VL	1.85	0.00261	PASS
				VN	-0.98	-0.00139	PASS
				VH	1.45	0.00205	PASS
		HCH	TN	VL	-0.87	-0.00122	PASS
				VN	1.24	0.00174	PASS
				VH	1.19	0.00167	PASS



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Test Band	Test mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
CatM1 Band25	QPSK/ 20MHz	LCH	TN	VL	-1.29	-0.00069	PASS
				VN	-2.64	-0.00142	PASS
				VH	1.29	0.00069	PASS
		MCH	TN	VL	-1.65	-0.00088	PASS
				VN	1.57	0.00084	PASS
				VH	1.78	0.00095	PASS
		HCH	TN	VL	1.26	0.00066	PASS
				VN	-0.92	-0.00048	PASS
				VH	-0.98	-0.00052	PASS
	16QAM/ 20MHz	LCH	TN	VL	1.35	0.00073	PASS
				VN	-0.58	-0.00031	PASS
				VH	1.56	0.00084	PASS
		MCH	TN	VL	-0.99	-0.00053	PASS
				VN	1.68	0.00089	PASS
				VH	-0.72	-0.00038	PASS
		HCH	TN	VL	-2.67	-0.00141	PASS
				VN	-1.85	-0.00097	PASS
				VH	1.87	0.00098	PASS



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CatM1 Band2	QPSK/ 20MHz	LCH	VN	-30	1.54	0.00083	PASS
				-20	-2.22	-0.00119	PASS
				-10	1.26	0.00068	PASS
				0	-1.33	-0.00072	PASS
				10	2.46	0.00132	PASS
				20	2.17	0.00117	PASS
				30	-0.02	-0.00001	PASS
				40	2.38	0.00128	PASS
				50	1.96	0.00105	PASS
		MCH	VN	-30	1.78	0.00095	PASS
				-20	1.77	0.00094	PASS
				-10	0.78	0.00041	PASS
				0	1.86	0.00099	PASS
				10	-0.92	-0.00049	PASS
				20	1.28	0.00068	PASS
				30	0.89	0.00047	PASS
				40	1.98	0.00105	PASS
				50	1.73	0.00092	PASS
		HCH	VN	-30	1.54	0.00081	PASS
				-20	-2.22	-0.00117	PASS
				-10	1.26	0.00066	PASS
				0	-1.33	-0.00070	PASS
				10	-1.22	-0.00064	PASS
				20	1.29	0.00068	PASS
				30	-0.02	-0.00001	PASS
				40	1.77	0.00093	PASS
				50	-1.25	-0.00066	PASS



Test Band	Test mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
CatM1 Band2	16QAM/ 20MHz	LCH	VN	-30	0.95	0.00051	PASS
				-20	1.26	0.00068	PASS
				-10	0.89	0.00048	PASS
				0	2.46	0.00132	PASS
				10	2.17	0.00117	PASS
				20	0.89	0.00048	PASS
				30	1.98	0.00106	PASS
				40	1.73	0.00093	PASS
				50	1.85	0.00099	PASS
		MCH	VN	-30	-1.38	-0.00073	PASS
				-20	-1.22	-0.00065	PASS
				-10	1.29	0.00069	PASS
				0	-0.78	-0.00041	PASS
				10	1.54	0.00082	PASS
				20	-2.22	-0.00118	PASS
				30	1.26	0.00067	PASS
				40	-1.33	-0.00071	PASS
				50	-1.22	-0.00065	PASS
		HCH	VN	-30	1.54	0.00081	PASS
				-20	-2.22	-0.00117	PASS
				-10	1.54	0.00081	PASS
				0	-2.22	-0.00117	PASS
				10	-1.22	-0.00064	PASS
				20	1.29	0.00068	PASS
				30	1.54	0.00081	PASS
				40	-2.22	-0.00117	PASS
				50	-2.22	-0.00117	PASS



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Test Band	Test mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
CatM1 Band4	QPSK/ 20MHz	LCH	VN	-30	2.12	0.00123	PASS
				-20	1.57	0.00091	PASS
				-10	2.32	0.00135	PASS
				0	1.56	0.00091	PASS
				10	-0.61	-0.00035	PASS
				20	1.61	0.00094	PASS
				30	0.95	0.00055	PASS
				40	1.26	0.00073	PASS
				50	2.46	0.00143	PASS
		MCH	VN	-30	2.17	0.00125	PASS
				-20	1.26	0.00073	PASS
				-10	0.89	0.00051	PASS
				0	-1.73	-0.00100	PASS
				10	-1.22	-0.00070	PASS
				20	0.95	0.00055	PASS
				30	1.26	0.00073	PASS
				40	2.46	0.00142	PASS
				50	-2.23	-0.00129	PASS
		HCH	VN	-30	1.54	0.00088	PASS
				-20	1.98	0.00113	PASS
				-10	1.73	0.00099	PASS
				0	2.39	0.00137	PASS
				10	2.12	0.00121	PASS
				20	1.57	0.00090	PASS
				30	2.32	0.00133	PASS
				40	-1.26	-0.00072	PASS
				50	0.45	0.00026	PASS



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Test Band	Test mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
CatM1 Band4	16QAM/ 20MHz	LCH	VN	-30	-1.22	-0.00071	PASS
				-20	1.29	0.00075	PASS
				-10	-0.02	-0.00001	PASS
				0	1.45	0.00084	PASS
				10	1.02	0.00059	PASS
				20	2.19	0.00127	PASS
				30	2.37	0.00138	PASS
				40	1.39	0.00081	PASS
				50	2.58	0.00150	PASS
		MCH	VN	-30	-1.46	-0.00084	PASS
				-20	2.16	0.00125	PASS
				-10	-1.57	-0.00091	PASS
				0	1.98	0.00114	PASS
				10	1.73	0.00100	PASS
				20	1.85	0.00107	PASS
				30	-1.38	-0.00080	PASS
				40	-1.22	-0.00070	PASS
				50	1.98	0.00114	PASS
		HCH	VN	-30	1.73	0.00099	PASS
				-20	1.85	0.00106	PASS
				-10	-1.22	-0.00070	PASS
				0	0.95	0.00054	PASS
				10	1.26	0.00072	PASS
				20	2.46	0.00141	PASS
				30	1.54	0.00088	PASS
				40	0.76	0.00044	PASS
				50	-0.78	-0.00045	PASS



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CatM1 Band12	QPSK/ 10MHz	LCH	VN	-30	2.25	0.00320	PASS
				-20	-1.46	-0.00207	PASS
				-10	2.16	0.00307	PASS
				0	1.73	0.00246	PASS
				10	1.85	0.00263	PASS
				20	1.26	0.00179	PASS
				30	-1.73	-0.00246	PASS
				40	1.54	0.00219	PASS
				50	2.46	0.00349	PASS
		MCH	VN	-30	-1.22	-0.00172	PASS
				-20	0.95	0.00134	PASS
				-10	1.26	0.00178	PASS
				0	2.46	0.00348	PASS
				10	1.54	0.00218	PASS
				20	-1.73	-0.00245	PASS
				30	1.54	0.00218	PASS
				40	2.46	0.00348	PASS
				50	2.17	0.00307	PASS
		HCH	VN	-30	1.71	0.00241	PASS
				-20	1.6	0.00225	PASS
				-10	0.75	0.00105	PASS
				0	1.29	0.00181	PASS
				10	1.85	0.00260	PASS
				20	1.54	0.00217	PASS
				30	2.57	0.00361	PASS
				40	1.45	0.00204	PASS
				50	-2.14	-0.00301	PASS



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CatM1 Band12	16QAM/ 10MHz	LCH	VN	-30	2.09	0.00297	PASS
				-20	1.85	0.00263	PASS
				-10	-1.38	-0.00196	PASS
				0	-1.22	-0.00173	PASS
				10	-1.73	-0.00246	PASS
				20	1.54	0.00219	PASS
				30	1.71	0.00243	PASS
				40	1.6	0.00227	PASS
				50	0.75	0.00107	PASS
		MCH	VN	-30	1.29	0.00182	PASS
				-20	1.85	0.00261	PASS
				-10	-1.38	-0.00195	PASS
				0	-1.22	-0.00172	PASS
				10	-2.25	-0.00318	PASS
				20	-1.86	-0.00263	PASS
				30	-1.33	-0.00188	PASS
				40	-1.22	-0.00172	PASS
				50	1.29	0.00182	PASS
		HCH	VN	-30	-0.02	-0.00003	PASS
				-20	1.54	0.00217	PASS
				-10	-2.22	-0.00312	PASS
				0	-1.22	-0.00172	PASS
				10	1.29	0.00181	PASS
				20	1.51	0.00212	PASS
				30	-2.25	-0.00316	PASS
				40	-1.86	-0.00262	PASS
				50	1.61	0.00226	PASS



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Test Band	Test mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
CatM1 band13	QPSK/10MHz	LCH	VN	-20	/	/	/
				-10	/	/	/
				0	/	/	/
				10	/	/	/
				20	/	/	/
				30	/	/	/
				40	/	/	/
				50	/	/	/
				55	/	/	/
		MCH	VN	-30	0.75	0.00106	PASS
				-20	1.29	0.00182	PASS
				-10	1.85	0.00261	PASS
				0	-1.46	-0.00206	PASS
				10	-2.23	-0.00315	PASS
				20	1.54	0.00218	PASS
				30	1.98	0.00280	PASS
				40	1.73	0.00245	PASS
				50	-1.22	-0.00172	PASS
		HCH	VN	-20	/	/	/
				-10	/	/	/
				0	/	/	/
				10	/	/	/
				20	/	/	/
				30	/	/	/
				40	/	/	/
				50	/	/	/
				55	/	/	/



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Test Band	Test mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
CatM1 band13	16QAM/ 10MHz	LCH	VN	-20	/	/	/
				-10	/	/	/
				0	/	/	/
				10	/	/	/
				20	/	/	/
				30	/	/	/
				40	/	/	/
				50	/	/	/
				55	/	/	/
		MCH	VN	-30	-1.22	-0.00172	PASS
				-20	-1.73	-0.00245	PASS
				-10	1.29	0.00182	PASS
				0	-0.02	-0.00003	PASS
				10	1.54	0.00218	PASS
				20	-1.73	-0.00245	PASS
				30	1.54	0.00218	PASS
				40	2.46	0.00348	PASS
				50	2.17	0.00307	PASS
		HCH	VN	-20	/	/	/
				-10	/	/	/
				0	/	/	/
				10	/	/	/
				20	/	/	/
				30	/	/	/
				40	/	/	/
				50	/	/	/
				55	/	/	/



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Test Band	Test mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
CatM1 band25	QPSK/ 20MHz	LCH	VN	-30	2.18	0.00117	PASS
				-20	-2.22	-0.00119	PASS
				-10	1.26	0.00068	PASS
				0	-1.33	-0.00072	PASS
				10	-2.22	-0.00119	PASS
				20	-1.22	-0.00066	PASS
				30	1.29	0.00069	PASS
				40	2.38	0.00128	PASS
				50	-1.33	-0.00072	PASS
		MCH	VN	-30	-1.22	-0.00065	PASS
				-20	1.29	0.00069	PASS
				-10	-0.02	-0.00001	PASS
				0	1.54	0.00082	PASS
				10	-1.73	-0.00092	PASS
				20	1.54	0.00082	PASS
				30	2.46	0.00131	PASS
				40	2.17	0.00115	PASS
				50	-1.46	-0.00078	PASS
		HCH	VN	-30	-2.22	-0.00117	PASS
				-20	1.26	0.00066	PASS
				-10	-1.22	-0.00064	PASS
				0	1.29	0.00068	PASS
				10	-0.02	-0.00001	PASS
				20	1.29	0.00068	PASS
				30	1.87	0.00098	PASS
				40	1.77	0.00093	PASS
				50	-2.26	-0.00119	PASS



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Test Band	Test mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
CatM1 band25	16QAM/ 20MHz	LCH	VN	-30	0.95	0.00051	PASS
				-20	1.26	0.00068	PASS
				-10	-2.25	-0.00121	PASS
				0	-1.86	-0.00100	PASS
				10	1.61	0.00087	PASS
				20	-2.22	-0.00119	PASS
				30	1.26	0.00068	PASS
				40	-1.33	-0.00072	PASS
				50	-2.22	-0.00119	PASS
		MCH	VN	-30	-1.22	-0.00065	PASS
				-20	1.29	0.00069	PASS
				-10	1.29	0.00069	PASS
				0	-0.02	-0.00001	PASS
				10	1.54	0.00082	PASS
				20	-2.22	-0.00118	PASS
				30	1.26	0.00067	PASS
				40	-1.33	-0.00071	PASS
				50	-0.9	-0.00048	PASS
		HCH	VN	-30	1.29	0.00068	PASS
				-20	-1.22	-0.00064	PASS
				-10	1.29	0.00068	PASS
				0	1.71	0.00090	PASS
				10	1.6	0.00084	PASS
				20	1.29	0.00068	PASS
				30	1.28	0.00067	PASS
				40	1.54	0.00081	PASS
				50	-2.22	-0.00117	PASS



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Note:

- (1) Parts per million (ppm) is obtained as the difference from the reference frequency (in Hz) divided by the reference frequency (in MHz).
- (2) All modes (Include battery only operation) have been tested and we only record the worst test result.

- End of the Appendix -



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