1. Frequency Stability

1.1 GSM850

1.1.1 Test Result

Band: GSM850							
Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
GPRS	824.2	20	3.3	-12.656	-0.0154	-2.5 to 2.5	Pass
			3.6	-9.040	-0.0110	-2.5 to 2.5	Pass
			4.2	-8.782	-0.0107	-2.5 to 2.5	Pass
		-30	3.6	-6.748	-0.0082	-2.5 to 2.5	Pass
		-20	3.6	-13.173	-0.0160	-2.5 to 2.5	Pass
		-10	3.6	-8.879	-0.0108	-2.5 to 2.5	Pass
		0	3.6	-7.071	-0.0086	-2.5 to 2.5	Pass
		10	3.6	-9.169	-0.0111	-2.5 to 2.5	Pass
		30	3.6	-11.074	-0.0134	-2.5 to 2.5	Pass
		40	3.6	-13.140	-0.0159	-2.5 to 2.5	Pass
		50	3.6	-6.748	-0.0082	-2.5 to 2.5	Pass
	836.6	20	3.3	-14.432	-0.0173	-2.5 to 2.5	Pass
			3.6	-10.170	-0.0122	-2.5 to 2.5	Pass
			4.2	-12.591	-0.0151	-2.5 to 2.5	Pass
		-30	3.6	-9.395	-0.0112	-2.5 to 2.5	Pass
		-20	3.6	-6.522	-0.0078	-2.5 to 2.5	Pass
		-10	3.6	-8.233	-0.0098	-2.5 to 2.5	Pass
		0	3.6	-10.364	-0.0124	-2.5 to 2.5	Pass
		10	3.6	-11.687	-0.0140	-2.5 to 2.5	Pass
		30	3.6	-13.495	-0.0161	-2.5 to 2.5	Pass
		40	3.6	-15.788	-0.0189	-2.5 to 2.5	Pass
		50	3.6	-12.817	-0.0153	-2.5 to 2.5	Pass
	848.8	20	3.3	-6.167	-0.0073	-2.5 to 2.5	Pass
			3.6	-7.103	-0.0084	-2.5 to 2.5	Pass
			4.2	-7.716	-0.0091	-2.5 to 2.5	Pass
		-30	3.6	-6.199	-0.0073	-2.5 to 2.5	Pass
		-20	3.6	-8.039	-0.0095	-2.5 to 2.5	Pass
		-10	3.6	-11.171	-0.0132	-2.5 to 2.5	Pass
		0	3.6	-6.070	-0.0072	-2.5 to 2.5	Pass
		10	3.6	-8.975	-0.0106	-2.5 to 2.5	Pass
		30	3.6	-10.945	-0.0129	-2.5 to 2.5	Pass
		40	3.6	-10.105	-0.0119	-2.5 to 2.5	Pass
		50	3.6	-8.459	-0.0100	-2.5 to 2.5	Pass
EGPRS	824.2	20	3.3	-14.529	-0.0176	-2.5 to 2.5	Pass
			3.6	-6.909	-0.0084	-2.5 to 2.5	Pass
			4.2	-7.297	-0.0089	-2.5 to 2.5	Pass
		-30	3.6	-5.263	-0.0064	-2.5 to 2.5	Pass
		-20	3.6	-6.845	-0.0083	-2.5 to 2.5	Pass
		-10	3.6	-6.619	-0.0080	-2.5 to 2.5	Pass
		0	3.6	-7.587	-0.0092	-2.5 to 2.5	Pass
		10	3.6	-8.039	-0.0098	-2.5 to 2.5	Pass
		30	3.6	-10.719	-0.0130	-2.5 to 2.5	Pass
		40	3.6	-8.168	-0.0099	-2.5 to 2.5	Pass
		50	3.6	-7.200	-0.0087	-2.5 to 2.5	Pass
	836.6	20	3.3	-6.102	-0.0073	-2.5 to 2.5	Pass
			3.6	-8.588	-0.0103	-2.5 to 2.5	Pass

			4.2	-6.715	-0.0080	-2.5 to 2.5	Pass
		-30	3.6	-3.777	-0.0045	-2.5 to 2.5	Pass
		-20	3.6	-6.425	-0.0077	-2.5 to 2.5	Pass
		-10	3.6	-0.646	-0.0008	-2.5 to 2.5	Pass
		0	3.6	-7.975	-0.0095	-2.5 to 2.5	Pass
		10	3.6	-11.009	-0.0132	-2.5 to 2.5	Pass
		30	3.6	-4.100	-0.0049	-2.5 to 2.5	Pass
		40	3.6	-6.715	-0.0080	-2.5 to 2.5	Pass
		50	3.6	-7.135	-0.0085	-2.5 to 2.5	Pass
	848.8	20	3.3	-4.714	-0.0056	-2.5 to 2.5	Pass
			3.6	-5.230	-0.0062	-2.5 to 2.5	Pass
			4.2	-5.844	-0.0069	-2.5 to 2.5	Pass
		-30	3.6	-8.717	-0.0103	-2.5 to 2.5	Pass
		-20	3.6	-10.267	-0.0121	-2.5 to 2.5	Pass
		-10	3.6	-6.715	-0.0079	-2.5 to 2.5	Pass
		0	3.6	-6.070	-0.0072	-2.5 to 2.5	Pass
		10	3.6	-0.613	-0.0007	-2.5 to 2.5	Pass
		30	3.6	-7.845	-0.0092	-2.5 to 2.5	Pass
		40	3.6	-11.655	-0.0137	-2.5 to 2.5	Pass
		50	3.6	-11.171	-0.0132	-2.5 to 2.5	Pass

2. Frequency Stability

2.1 PCS1900

2.1.1 Test Result

Band: PCS1900							
Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
GPRS	1850.2	20	3.3	-23.536	-0.0127	-2.5 to 2.5	Pass
			3.6	-22.794	-0.0123	-2.5 to 2.5	Pass
			4.2	-8.039	-0.0043	-2.5 to 2.5	Pass
		-30	3.6	-22.665	-0.0123	-2.5 to 2.5	Pass
		-20	3.6	-5.489	-0.0030	-2.5 to 2.5	Pass
		-10	3.6	-10.235	-0.0055	-2.5 to 2.5	Pass
		0	3.6	-15.077	-0.0081	-2.5 to 2.5	Pass
		10	3.6	-6.134	-0.0033	-2.5 to 2.5	Pass
		30	3.6	-10.041	-0.0054	-2.5 to 2.5	Pass
		40	3.6	-17.790	-0.0096	-2.5 to 2.5	Pass
		50	3.6	-18.145	-0.0098	-2.5 to 2.5	Pass
	1880	20	3.3	-11.397	-0.0061	-2.5 to 2.5	Pass
			3.6	-17.628	-0.0094	-2.5 to 2.5	Pass
			4.2	-12.462	-0.0066	-2.5 to 2.5	Pass
		-30	3.6	-21.599	-0.0115	-2.5 to 2.5	Pass
		-20	3.6	-29.703	-0.0158	-2.5 to 2.5	Pass
		-10	3.6	-21.244	-0.0113	-2.5 to 2.5	Pass
		0	3.6	-18.597	-0.0099	-2.5 to 2.5	Pass
		10	3.6	-24.150	-0.0128	-2.5 to 2.5	Pass
		30	3.6	-22.245	-0.0118	-2.5 to 2.5	Pass
		40	3.6	-22.342	-0.0119	-2.5 to 2.5	Pass
		50	3.6	-8.362	-0.0044	-2.5 to 2.5	Pass
	1909.8	20	3.3	-15.077	-0.0079	-2.5 to 2.5	Pass
			3.6	-13.011	-0.0068	-2.5 to 2.5	Pass

			4.2	-16.821	-0.0088	-2.5 to 2.5	Pass
		-30	3.6	-5.908	-0.0031	-2.5 to 2.5	Pass
		-20	3.6	-16.724	-0.0088	-2.5 to 2.5	Pass
		-10	3.6	-20.534	-0.0108	-2.5 to 2.5	Pass
		0	3.6	-25.732	-0.0135	-2.5 to 2.5	Pass
		10	3.6	-31.672	-0.0166	-2.5 to 2.5	Pass
		30	3.6	-24.699	-0.0129	-2.5 to 2.5	Pass
		40	3.6	-19.856	-0.0104	-2.5 to 2.5	Pass
		50	3.6	-25.409	-0.0133	-2.5 to 2.5	Pass
EGPRS	1850.2	20	3.3	-3.003	-0.0016	-2.5 to 2.5	Pass
			3.6	-23.084	-0.0125	-2.5 to 2.5	Pass
			4.2	-5.747	-0.0031	-2.5 to 2.5	Pass
		-30	3.6	-5.715	-0.0031	-2.5 to 2.5	Pass
		-20	3.6	-3.519	-0.0019	-2.5 to 2.5	Pass
		-10	3.6	-5.359	-0.0029	-2.5 to 2.5	Pass
		0	3.6	-4.423	-0.0024	-2.5 to 2.5	Pass
		10	3.6	-21.438	-0.0116	-2.5 to 2.5	Pass
		30	3.6	-22.277	-0.0120	-2.5 to 2.5	Pass
		40	3.6	-22.471	-0.0121	-2.5 to 2.5	Pass
		50	3.6	0.872	0.0005	-2.5 to 2.5	Pass
	1880	20	3.3	-6.393	-0.0034	-2.5 to 2.5	Pass
			3.6	-14.012	-0.0075	-2.5 to 2.5	Pass
			4.2	-12.365	-0.0066	-2.5 to 2.5	Pass
		-30	3.6	-14.044	-0.0075	-2.5 to 2.5	Pass
		-20	3.6	-16.434	-0.0087	-2.5 to 2.5	Pass
		-10	3.6	-4.003	-0.0021	-2.5 to 2.5	Pass
		0	3.6	-5.392	-0.0029	-2.5 to 2.5	Pass
		10	3.6	-11.655	-0.0062	-2.5 to 2.5	Pass
		30	3.6	-6.231	-0.0033	-2.5 to 2.5	Pass
		40	3.6	-10.138	-0.0054	-2.5 to 2.5	Pass
		50	3.6	-7.200	-0.0038	-2.5 to 2.5	Pass
	1909.8	20	3.3	-5.295	-0.0028	-2.5 to 2.5	Pass
			3.6	-8.104	-0.0042	-2.5 to 2.5	Pass
			4.2	-10.009	-0.0052	-2.5 to 2.5	Pass
		-30	3.6	-7.555	-0.0040	-2.5 to 2.5	Pass
		-20	3.6	-11.913	-0.0062	-2.5 to 2.5	Pass
		-10	3.6	-15.239	-0.0080	-2.5 to 2.5	Pass
		0	3.6	-23.730	-0.0124	-2.5 to 2.5	Pass
		10	3.6	-7.652	-0.0040	-2.5 to 2.5	Pass
		30	3.6	-7.813	-0.0041	-2.5 to 2.5	Pass
		40	3.6	-8.653	-0.0045	-2.5 to 2.5	Pass
		50	3.6	-9.169	-0.0048	-2.5 to 2.5	Pass