

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	3.40	31.389	0.0381	-2.5 to 2.5	Pass
			3.70	23.514	0.0285	-2.5 to 2.5	Pass
			4.20	26.469	0.0321	-2.5 to 2.5	Pass
		-30	3.70	24.606	0.0299	-2.5 to 2.5	Pass
		-20	3.70	25.126	0.0305	-2.5 to 2.5	Pass
		-10	3.70	20.747	0.0252	-2.5 to 2.5	Pass
		0	3.70	22.533	0.0273	-2.5 to 2.5	Pass
		10	3.70	20.632	0.0250	-2.5 to 2.5	Pass
		30	3.70	25.018	0.0304	-2.5 to 2.5	Pass
		40	3.70	25.647	0.0311	-2.5 to 2.5	Pass
	50	3.70	23.365	0.0283	-2.5 to 2.5	Pass	
	836.6	20	3.40	20.493	0.0245	-2.5 to 2.5	Pass
			3.70	22.153	0.0265	-2.5 to 2.5	Pass
			4.20	21.008	0.0251	-2.5 to 2.5	Pass
		-30	3.70	26.584	0.0318	-2.5 to 2.5	Pass
		-20	3.70	19.781	0.0236	-2.5 to 2.5	Pass
		-10	3.70	25.953	0.0310	-2.5 to 2.5	Pass
		0	3.70	23.303	0.0279	-2.5 to 2.5	Pass
		10	3.70	25.343	0.0303	-2.5 to 2.5	Pass
		30	3.70	26.480	0.0317	-2.5 to 2.5	Pass
		40	3.70	22.218	0.0266	-2.5 to 2.5	Pass
	50	3.70	18.123	0.0217	-2.5 to 2.5	Pass	
	848.8	20	3.40	21.736	0.0256	-2.5 to 2.5	Pass
			3.70	25.771	0.0304	-2.5 to 2.5	Pass
			4.20	23.255	0.0274	-2.5 to 2.5	Pass
		-30	3.70	18.828	0.0222	-2.5 to 2.5	Pass
		-20	3.70	22.703	0.0267	-2.5 to 2.5	Pass
		-10	3.70	22.624	0.0267	-2.5 to 2.5	Pass
		0	3.70	19.266	0.0227	-2.5 to 2.5	Pass
		10	3.70	23.020	0.0271	-2.5 to 2.5	Pass
30		3.70	25.072	0.0295	-2.5 to 2.5	Pass	
40		3.70	14.721	0.0173	-2.5 to 2.5	Pass	
50	3.70	25.224	0.0297	-2.5 to 2.5	Pass		
EGPRS	824.2	20	3.40	29.406	0.0357	-2.5 to 2.5	Pass
			3.70	25.441	0.0309	-2.5 to 2.5	Pass
			4.20	19.102	0.0232	-2.5 to 2.5	Pass
		-30	3.70	21.537	0.0261	-2.5 to 2.5	Pass
		-20	3.70	23.599	0.0286	-2.5 to 2.5	Pass
		-10	3.70	26.317	0.0319	-2.5 to 2.5	Pass
		0	3.70	23.783	0.0289	-2.5 to 2.5	Pass
		10	3.70	18.686	0.0227	-2.5 to 2.5	Pass
		30	3.70	21.537	0.0261	-2.5 to 2.5	Pass
		40	3.70	22.124	0.0268	-2.5 to 2.5	Pass
	50	3.70	18.813	0.0228	-2.5 to 2.5	Pass	
	836.6	20	3.40	25.342	0.0303	-2.5 to 2.5	Pass
			3.70	28.148	0.0336	-2.5 to 2.5	Pass

			4.20	30.940	0.0370	-2.5 to 2.5	Pass	
		-30	3.70	28.740	0.0344	-2.5 to 2.5	Pass	
		-20	3.70	23.645	0.0283	-2.5 to 2.5	Pass	
		-10	3.70	23.753	0.0284	-2.5 to 2.5	Pass	
		0	3.70	22.045	0.0264	-2.5 to 2.5	Pass	
		10	3.70	30.746	0.0368	-2.5 to 2.5	Pass	
		30	3.70	28.833	0.0345	-2.5 to 2.5	Pass	
		40	3.70	31.753	0.0380	-2.5 to 2.5	Pass	
		50	3.70	28.899	0.0345	-2.5 to 2.5	Pass	
	848.8	20		3.40	27.113	0.0319	-2.5 to 2.5	Pass
				3.70	26.727	0.0315	-2.5 to 2.5	Pass
				4.20	24.012	0.0283	-2.5 to 2.5	Pass
		-30	3.70	24.247	0.0286	-2.5 to 2.5	Pass	
		-20	3.70	28.391	0.0334	-2.5 to 2.5	Pass	
		-10	3.70	22.147	0.0261	-2.5 to 2.5	Pass	
		0	3.70	18.959	0.0223	-2.5 to 2.5	Pass	
		10	3.70	22.638	0.0267	-2.5 to 2.5	Pass	
		30	3.70	25.102	0.0296	-2.5 to 2.5	Pass	
		40	3.70	27.276	0.0321	-2.5 to 2.5	Pass	
50	3.70	23.259	0.0274	-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	3.40	39.874	0.0216	-2.5 to 2.5	Pass		
			3.70	39.286	0.0212	-2.5 to 2.5	Pass		
			4.20	42.284	0.0229	-2.5 to 2.5	Pass		
		-30	3.70	26.808	0.0145	-2.5 to 2.5	Pass		
		-20	3.70	35.284	0.0191	-2.5 to 2.5	Pass		
		-10	3.70	36.889	0.0199	-2.5 to 2.5	Pass		
		0	3.70	28.937	0.0156	-2.5 to 2.5	Pass		
		10	3.70	38.577	0.0209	-2.5 to 2.5	Pass		
		30	3.70	38.732	0.0209	-2.5 to 2.5	Pass		
		40	3.70	23.752	0.0128	-2.5 to 2.5	Pass		
		50	3.70	41.110	0.0222	-2.5 to 2.5	Pass		
		1880	20		3.40	42.417	0.0226	-2.5 to 2.5	Pass
					3.70	27.057	0.0144	-2.5 to 2.5	Pass
					4.20	28.010	0.0149	-2.5 to 2.5	Pass
	-30		3.70	12.905	0.0069	-2.5 to 2.5	Pass		
	-20		3.70	17.059	0.0091	-2.5 to 2.5	Pass		
	-10		3.70	24.402	0.0130	-2.5 to 2.5	Pass		
	0		3.70	19.415	0.0103	-2.5 to 2.5	Pass		
	10		3.70	21.438	0.0114	-2.5 to 2.5	Pass		
	30		3.70	15.332	0.0082	-2.5 to 2.5	Pass		
	40		3.70	13.389	0.0071	-2.5 to 2.5	Pass		
	50	3.70	6.977	0.0037	-2.5 to 2.5	Pass			
	1909.8	20		3.40	11.334	0.0059	-2.5 to 2.5	Pass	
				3.70	25.264	0.0132	-2.5 to 2.5	Pass	

			4.20	21.769	0.0114	-2.5 to 2.5	Pass		
		-30	3.70	15.831	0.0083	-2.5 to 2.5	Pass		
		-20	3.70	31.991	0.0168	-2.5 to 2.5	Pass		
		-10	3.70	29.986	0.0157	-2.5 to 2.5	Pass		
		0	3.70	30.227	0.0158	-2.5 to 2.5	Pass		
		10	3.70	28.831	0.0151	-2.5 to 2.5	Pass		
		30	3.70	22.538	0.0118	-2.5 to 2.5	Pass		
		40	3.70	32.988	0.0173	-2.5 to 2.5	Pass		
		50	3.70	25.898	0.0136	-2.5 to 2.5	Pass		
EGPRS	1850.2	20	3.40	46.946	0.0254	-2.5 to 2.5	Pass		
			3.70	18.326	0.0099	-2.5 to 2.5	Pass		
			4.20	35.633	0.0193	-2.5 to 2.5	Pass		
				-30	3.70	27.552	0.0149	-2.5 to 2.5	Pass
				-20	3.70	32.437	0.0175	-2.5 to 2.5	Pass
				-10	3.70	27.122	0.0147	-2.5 to 2.5	Pass
				0	3.70	32.557	0.0176	-2.5 to 2.5	Pass
				10	3.70	36.284	0.0196	-2.5 to 2.5	Pass
				30	3.70	32.246	0.0174	-2.5 to 2.5	Pass
				40	3.70	33.995	0.0184	-2.5 to 2.5	Pass
			50	3.70	30.454	0.0165	-2.5 to 2.5	Pass	
		1880	20	3.40	37.353	0.0199	-2.5 to 2.5	Pass	
					3.70	10.121	0.0054	-2.5 to 2.5	Pass
					4.20	10.340	0.0055	-2.5 to 2.5	Pass
				-30	3.70	9.603	0.0051	-2.5 to 2.5	Pass
				-20	3.70	8.173	0.0043	-2.5 to 2.5	Pass
				-10	3.70	15.547	0.0083	-2.5 to 2.5	Pass
				0	3.70	25.145	0.0134	-2.5 to 2.5	Pass
				10	3.70	22.046	0.0117	-2.5 to 2.5	Pass
				30	3.70	13.227	0.0070	-2.5 to 2.5	Pass
				40	3.70	23.625	0.0126	-2.5 to 2.5	Pass
			50	3.70	9.188	0.0049	-2.5 to 2.5	Pass	
		1909.8	20	3.40	12.166	0.0064	-2.5 to 2.5	Pass	
					3.70	21.854	0.0114	-2.5 to 2.5	Pass
					4.20	33.890	0.0177	-2.5 to 2.5	Pass
				-30	3.70	25.614	0.0134	-2.5 to 2.5	Pass
				-20	3.70	36.130	0.0189	-2.5 to 2.5	Pass
				-10	3.70	21.689	0.0114	-2.5 to 2.5	Pass
				0	3.70	33.023	0.0173	-2.5 to 2.5	Pass
				10	3.70	25.443	0.0133	-2.5 to 2.5	Pass
				30	3.70	20.288	0.0106	-2.5 to 2.5	Pass
				40	3.70	12.319	0.0065	-2.5 to 2.5	Pass
			50	3.70	14.145	0.0074	-2.5 to 2.5	Pass	