





















Appendix F: Frequency Stability

Test Result

Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	VL	NT	9.33	0.011320	±2.5	PASS
GSM850	128	VN	NT	8.91	0.010810	±2.5	PASS
GSM850	128	VH	NT	7.52	0.009124	±2.5	PASS
GSM850	190	VL	NT	7.81	0.009335	±2.5	PASS
GSM850	190	VN	NT	7.01	0.008379	±2.5	PASS
GSM850	190	VH	NT	10.14	0.012120	±2.5	PASS
GSM850	251	VL	NT	10.69	0.012594	±2.5	PASS
GSM850	251	VN	NT	12.07	0.014220	±2.5	PASS
GSM850	251	VH	NT	9.72	0.011451	±2.5	PASS
GPRS850	128	VL	NT	6.20	0.007522	±2.5	PASS
GPRS850	128	VN	NT	4.75	0.005763	±2.5	PASS
GPRS850	128	VH	NT	3.84	0.004659	±2.5	PASS
GPRS850	190	VL	NT	8.68	0.010375	±2.5	PASS
GPRS850	190	VN	NT	7.72	0.009228	±2.5	PASS
GPRS850	190	VH	NT	6.81	0.008140	±2.5	PASS
GPRS850	251	VL	NT	5.97	0.007033	±2.5	PASS
GPRS850	251	VN	NT	8.62	0.010156	±2.5	PASS
GPRS850	251	VH	NT	4.13	0.004866	±2.5	PASS
GSM1900	512	VL	NT	19.11	0.010329	±2.5	PASS
GSM1900	512	VN	NT	18.63	0.010069	±2.5	PASS
GSM1900	512	VH	NT	23.18	0.012528	±2.5	PASS
GSM1900	661	VL	NT	21.95	0.011676	±2.5	PASS
GSM1900	661	VN	NT	24.99	0.013293	±2.5	PASS
GSM1900	661	VH	NT	23.70	0.012606	±2.5	PASS
GSM1900	810	VL	NT	24.83	0.013001	±2.5	PASS
GSM1900	810	VN	NT	23.12	0.012106	±2.5	PASS
GSM1900	810	VH	NT	25.38	0.013289	±2.5	PASS
GPRS1900	512	VL	NT	22.89	0.012372	±2.5	PASS
GPRS1900	512	VN	NT	24.18	0.013069	±2.5	PASS
GPRS1900	512	VH	NT	22.70	0.012269	±2.5	PASS
GPRS1900	661	VL	NT	17.01	0.009048	±2.5	PASS
GPRS1900	661	VN	NT	16.27	0.008654	±2.5	PASS
GPRS1900	661	VH	NT	17.63	0.009378	±2.5	PASS

GPRS1900	810	VL	NT	20.66	0.010818	±2.5	PASS
GPRS1900	810	VN	NT	20.15	0.010551	±2.5	PASS
GPRS1900	810	VH	NT	22.41	0.011734	±2.5	PASS

Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	NV	-30	8.59	0.010422	±2.5	PASS
GSM850	128	NV	-20	5.00	0.006066	±2.5	PASS
GSM850	128	NV	-10	2.55	0.003094	±2.5	PASS
GSM850	128	NV	0	0.87	0.001056	±2.5	PASS
GSM850	128	NV	10	1.94	0.002354	±2.5	PASS
GSM850	128	NV	20	-2.26	-0.002742	±2.5	PASS
GSM850	128	NV	30	0.71	0.000861	±2.5	PASS
GSM850	128	NV	40	4.88	0.005921	±2.5	PASS
GSM850	128	NV	50	2.84	0.003446	±2.5	PASS
GSM850	190	NV	-30	12.53	0.014977	±2.5	PASS
GSM850	190	NV	-20	12.49	0.014929	±2.5	PASS
GSM850	190	NV	-10	6.68	0.007985	±2.5	PASS
GSM850	190	NV	0	5.00	0.005977	±2.5	PASS
GSM850	190	NV	10	6.46	0.007722	±2.5	PASS
GSM850	190	NV	20	8.10	0.009682	±2.5	PASS
GSM850	190	NV	30	4.26	0.005092	±2.5	PASS
GSM850	190	NV	40	5.39	0.006443	±2.5	PASS
GSM850	190	NV	50	9.14	0.010925	±2.5	PASS
GSM850	251	NV	-30	11.49	0.013537	±2.5	PASS
GSM850	251	NV	-20	13.82	0.016282	±2.5	PASS
GSM850	251	NV	-10	6.04	0.007116	±2.5	PASS
GSM850	251	NV	0	6.36	0.007493	±2.5	PASS
GSM850	251	NV	10	5.36	0.006315	±2.5	PASS
GSM850	251	NV	20	4.29	0.005054	±2.5	PASS
GSM850	251	NV	30	5.10	0.006008	±2.5	PASS
GSM850	251	NV	40	4.71	0.005549	±2.5	PASS
GSM850	251	NV	50	5.97	0.007033	±2.5	PASS
GPRS850	128	NV	-30	5.62	0.006819	±2.5	PASS
GPRS850	128	NV	-20	5.33	0.006467	±2.5	PASS
GPRS850	128	NV	-10	9.78	0.011866	±2.5	PASS
GPRS850	128	NV	0	11.75	0.014256	±2.5	PASS
GPRS850	128	NV	10	13.33	0.016173	±2.5	PASS

GPRS850	128	NV	20	10.82	0.013128	±2.5	PASS
GPRS850	128	NV	30	12.75	0.015470	±2.5	PASS
GPRS850	128	NV	40	11.85	0.014378	±2.5	PASS
GPRS850	128	NV	50	11.85	0.014378	±2.5	PASS
GPRS850	190	NV	-30	8.81	0.010531	±2.5	PASS
GPRS850	190	NV	-20	7.36	0.008798	±2.5	PASS
GPRS850	190	NV	-10	7.85	0.009383	±2.5	PASS
GPRS850	190	NV	0	12.75	0.015240	±2.5	PASS
GPRS850	190	NV	10	10.11	0.012085	±2.5	PASS
GPRS850	190	NV	20	11.04	0.013196	±2.5	PASS
GPRS850	190	NV	30	7.59	0.009072	±2.5	PASS
GPRS850	190	NV	40	8.59	0.010268	±2.5	PASS
GPRS850	190	NV	50	9.65	0.011535	±2.5	PASS
GPRS850	251	NV	-30	8.94	0.010533	±2.5	PASS
GPRS850	251	NV	-20	6.23	0.007340	±2.5	PASS
GPRS850	251	NV	-10	5.91	0.006963	±2.5	PASS
GPRS850	251	NV	0	9.20	0.010839	±2.5	PASS
GPRS850	251	NV	10	10.07	0.011864	±2.5	PASS
GPRS850	251	NV	20	9.46	0.011145	±2.5	PASS
GPRS850	251	NV	30	13.53	0.015940	±2.5	PASS
GPRS850	251	NV	40	12.11	0.014267	±2.5	PASS
GPRS850	251	NV	50	12.62	0.014868	±2.5	PASS
GSM1900	512	NV	-30	21.21	0.011464	±2.5	PASS
GSM1900	512	NV	-20	18.05	0.009756	±2.5	PASS
GSM1900	512	NV	-10	15.24	0.008237	±2.5	PASS
GSM1900	512	NV	0	13.33	0.007205	±2.5	PASS
GSM1900	512	NV	10	14.82	0.008010	±2.5	PASS
GSM1900	512	NV	20	13.92	0.007524	±2.5	PASS
GSM1900	512	NV	30	14.75	0.007972	±2.5	PASS
GSM1900	512	NV	40	14.37	0.007767	±2.5	PASS
GSM1900	512	NV	50	12.07	0.006524	±2.5	PASS
GSM1900	661	NV	-30	21.57	0.011473	±2.5	PASS
GSM1900	661	NV	-20	23.70	0.012606	±2.5	PASS
GSM1900	661	NV	-10	24.05	0.012793	±2.5	PASS
GSM1900	661	NV	0	16.53	0.008793	±2.5	PASS
GSM1900	661	NV	10	16.79	0.008931	±2.5	PASS
GSM1900	661	NV	20	12.20	0.006489	±2.5	PASS
GSM1900	661	NV	30	14.59	0.007761	±2.5	PASS
GSM1900	661	NV	40	14.43	0.007676	±2.5	PASS

GSM1900	661	NV	50	15.43	0.008207	±2.5	PASS
GSM1900	810	NV	-30	23.50	0.012305	±2.5	PASS
GSM1900	810	NV	-20	26.38	0.013813	±2.5	PASS
GSM1900	810	NV	-10	17.50	0.009163	±2.5	PASS
GSM1900	810	NV	0	21.53	0.011273	±2.5	PASS
GSM1900	810	NV	10	17.01	0.008907	±2.5	PASS
GSM1900	810	NV	20	20.44	0.010703	±2.5	PASS
GSM1900	810	NV	30	23.76	0.012441	±2.5	PASS
GSM1900	810	NV	40	18.24	0.009551	±2.5	PASS
GSM1900	810	NV	50	20.57	0.010771	±2.5	PASS
GPRS1900	512	NV	-30	25.09	0.013561	±2.5	PASS
GPRS1900	512	NV	-20	10.43	0.005637	±2.5	PASS
GPRS1900	512	NV	-10	24.70	0.013350	±2.5	PASS
GPRS1900	512	NV	0	30.45	0.016458	±2.5	PASS
GPRS1900	512	NV	10	35.81	0.019355	±2.5	PASS
GPRS1900	512	NV	20	30.48	0.016474	±2.5	PASS
GPRS1900	512	NV	30	29.09	0.015723	±2.5	PASS
GPRS1900	512	NV	40	30.77	0.016631	±2.5	PASS
GPRS1900	512	NV	50	32.06	0.017328	±2.5	PASS
GPRS1900	661	NV	-30	14.88	0.007915	±2.5	PASS
GPRS1900	661	NV	-20	18.24	0.009702	±2.5	PASS
GPRS1900	661	NV	-10	13.50	0.007181	±2.5	PASS
GPRS1900	661	NV	0	22.92	0.012191	±2.5	PASS
GPRS1900	661	NV	10	24.09	0.012814	±2.5	PASS
GPRS1900	661	NV	20	25.57	0.013601	±2.5	PASS
GPRS1900	661	NV	30	26.57	0.014133	±2.5	PASS
GPRS1900	661	NV	40	25.89	0.013771	±2.5	PASS
GPRS1900	661	NV	50	25.38	0.013500	±2.5	PASS
GPRS1900	810	NV	-30	13.17	0.006896	±2.5	PASS
GPRS1900	810	NV	-20	20.40	0.010682	±2.5	PASS
GPRS1900	810	NV	-10	15.98	0.008367	±2.5	PASS
GPRS1900	810	NV	0	25.05	0.013117	±2.5	PASS
GPRS1900	810	NV	10	26.35	0.013797	±2.5	PASS
GPRS1900	810	NV	20	25.57	0.013389	±2.5	PASS
GPRS1900	810	NV	30	20.70	0.010839	±2.5	PASS
GPRS1900	810	NV	40	29.90	0.015656	±2.5	PASS
GPRS1900	810	NV	50	21.15	0.011074	±2.5	PASS

*** End of Report ***