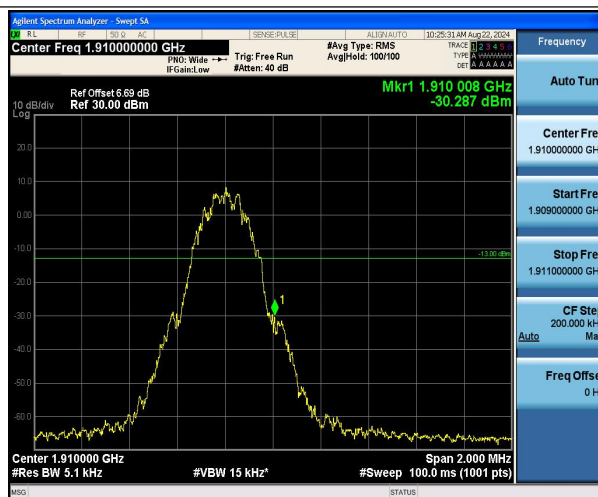




GPRS1900-810-0-PASS



EGPRS1900-512-2-PASS



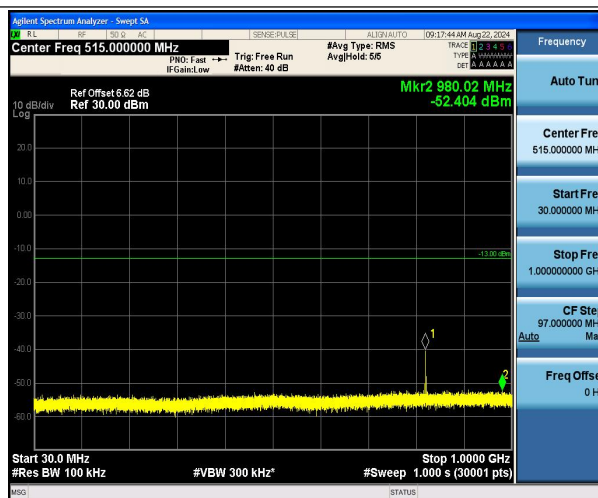
EGPRS1900-810-2-PASS

Appendix E: Conducted Spurious Emission

Test Result

Band	Channel	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	30~1000MHz	980.02	-52.40	-13	PASS
GSM850	128	1000~10000MHz	9439.9	-40.86	-13	PASS
GSM850	190	30~1000MHz	508.27	-52.27	-13	PASS
GSM850	190	1000~10000MHz	2509.6	-32.87	-13	PASS
GSM850	251	30~1000MHz	957.16	-52.24	-13	PASS
GSM850	251	1000~10000MHz	5759.5	-40.84	-13	PASS
GPRS850	128	30~1000MHz	932.97	-51.87	-13	PASS
GPRS850	128	1000~10000MHz	5822.5	-40.79	-13	PASS
GPRS850	190	30~1000MHz	688.08	-52.19	-13	PASS
GPRS850	190	1000~10000MHz	5915.5	-40.86	-13	PASS
GPRS850	251	30~1000MHz	549.24	-52.25	-13	PASS
GPRS850	251	1000~10000MHz	5784.4	-40.89	-13	PASS
EGPRS850	128	30~1000MHz	931.03	-52.00	-13	PASS
EGPRS850	128	1000~10000MHz	5765.2	-40.76	-13	PASS
EGPRS850	190	30~1000MHz	958.48	-51.54	-13	PASS
EGPRS850	190	1000~10000MHz	5783.2	-40.80	-13	PASS
EGPRS850	251	30~1000MHz	963.95	-52.31	-13	PASS
EGPRS850	251	1000~10000MHz	5818.9	-40.75	-13	PASS
GSM1900	512	30~1000MHz	939.25	-43.84	-13	PASS
GSM1900	512	1000~20000MHz	18975.9	-34.40	-13	PASS
GSM1900	661	30~1000MHz	908.79	-43.89	-13	PASS
GSM1900	661	1000~20000MHz	18906.87	-34.14	-13	PASS
GSM1900	810	30~1000MHz	875.97	-43.94	-13	PASS
GSM1900	810	1000~20000MHz	16467.27	-34.22	-13	PASS
GPRS1900	512	30~1000MHz	912.54	-43.79	-13	PASS
GPRS1900	512	1000~20000MHz	18926.5	-34.24	-13	PASS
GPRS1900	661	30~1000MHz	953.57	-43.85	-13	PASS
GPRS1900	661	1000~20000MHz	18921.43	-34.23	-13	PASS
GPRS1900	810	30~1000MHz	933.13	-43.84	-13	PASS
GPRS1900	810	1000~20000MHz	18955	-34.36	-13	PASS
EGPRS1900	512	30~1000MHz	929.25	-43.92	-13	PASS
EGPRS1900	512	1000~20000MHz	18959.43	-34.43	-13	PASS
EGPRS1900	661	30~1000MHz	791.51	-43.89	-13	PASS
EGPRS1900	661	1000~20000MHz	18949.3	-34.48	-13	PASS
EGPRS1900	810	30~1000MHz	913.09	-43.83	-13	PASS
EGPRS1900	810	1000~20000MHz	18941.7	-34.42	-13	PASS

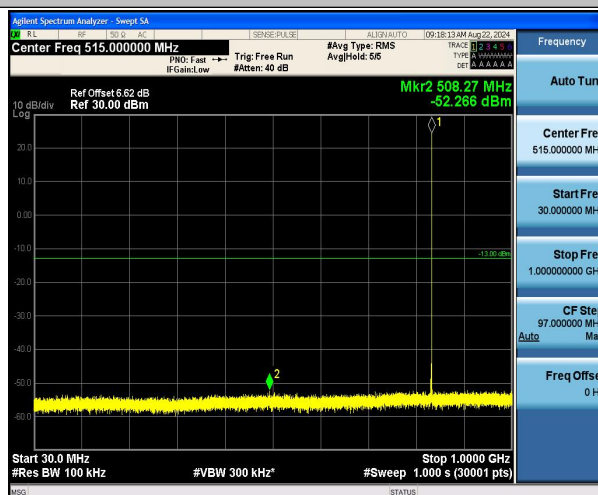
Test Graphs



GSM850-128-5-30~1000MHz-PASS



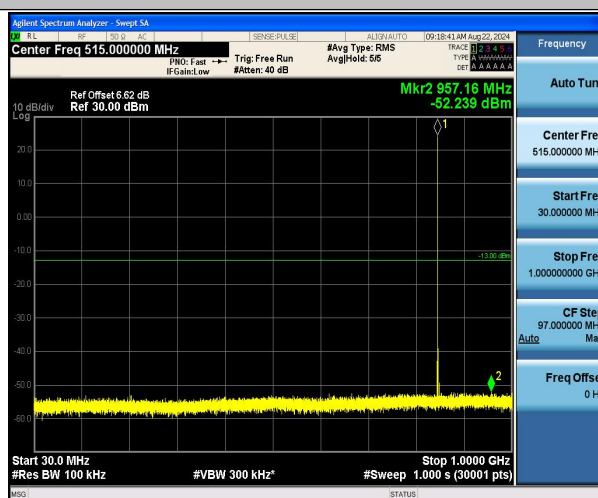
GSM850-128-5-1000~10000MHz-PASS



GSM850-190-5-30~1000MHz-PASS



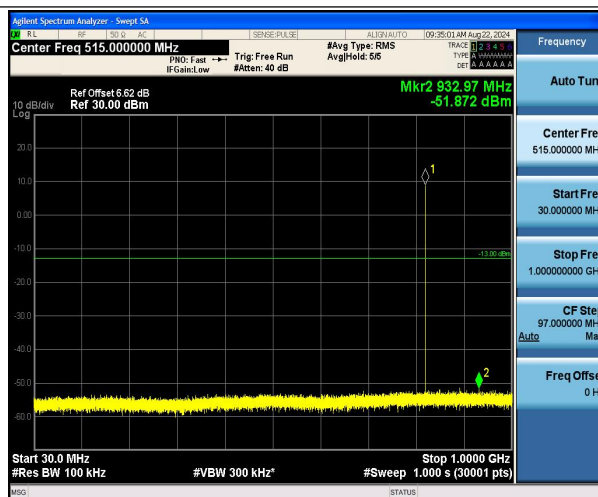
GSM850-190-5-1000~10000MHz-PASS



GSM850-251-5-30~1000MHz-PASS



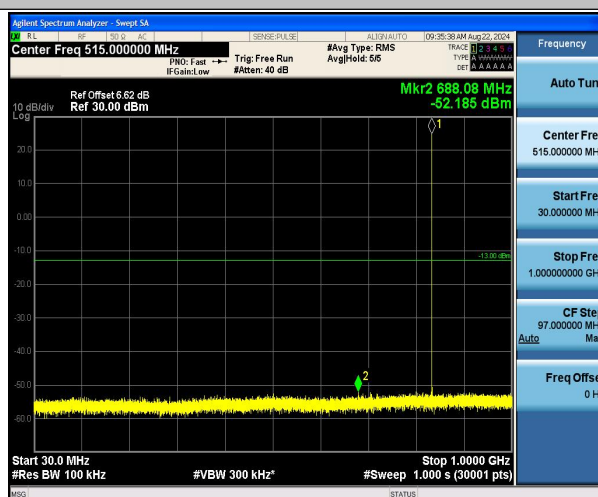
GSM850-251-5-1000~10000MHz-PASS



GPRS850-128-5-30~1000MHz-PASS



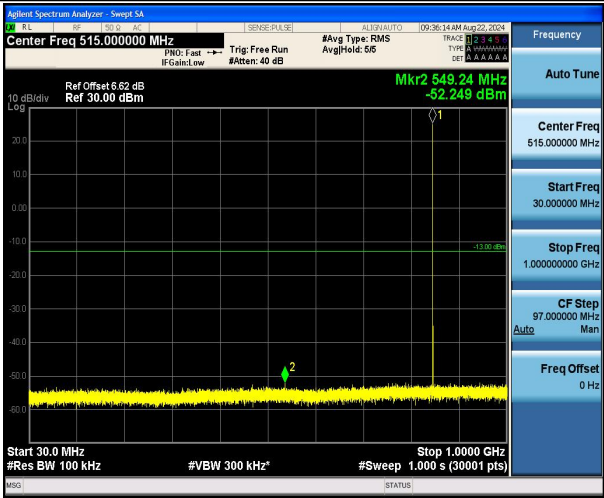
GPRS850-128-5-1000~10000MHz-PASS



GPRS850-190-5-30~1000MHz-PASS



GPRS850-190-5-1000~10000MHz-PASS



GPRS850-251-5-30~1000MHz-PASS



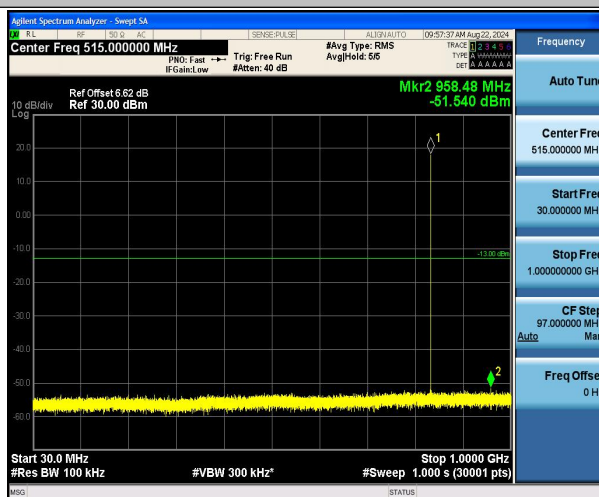
GPRS850-251-5-1000~10000MHz-PASS



EGPRS850-128-8-30~1000MHz-PASS



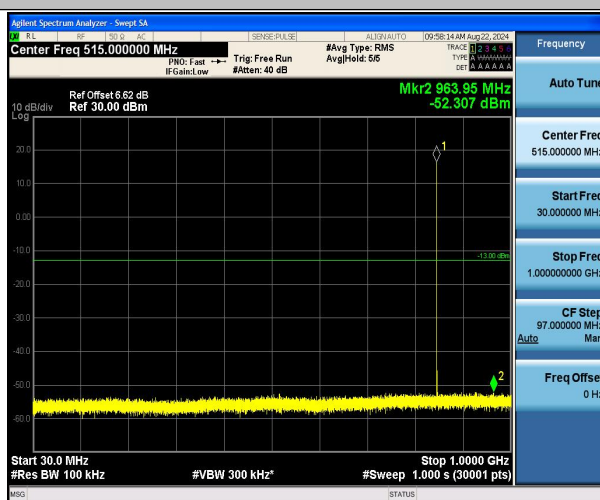
EGPRS850-128-8-1000~10000MHz-PASS



EGPRS850-190-8-30~1000MHz-PASS



EGPRS850-190-8-1000~10000MHz-PASS



EGPRS850-251-8-30~1000MHz-PASS



EGPRS850-251-8-1000~10000MHz-PASS



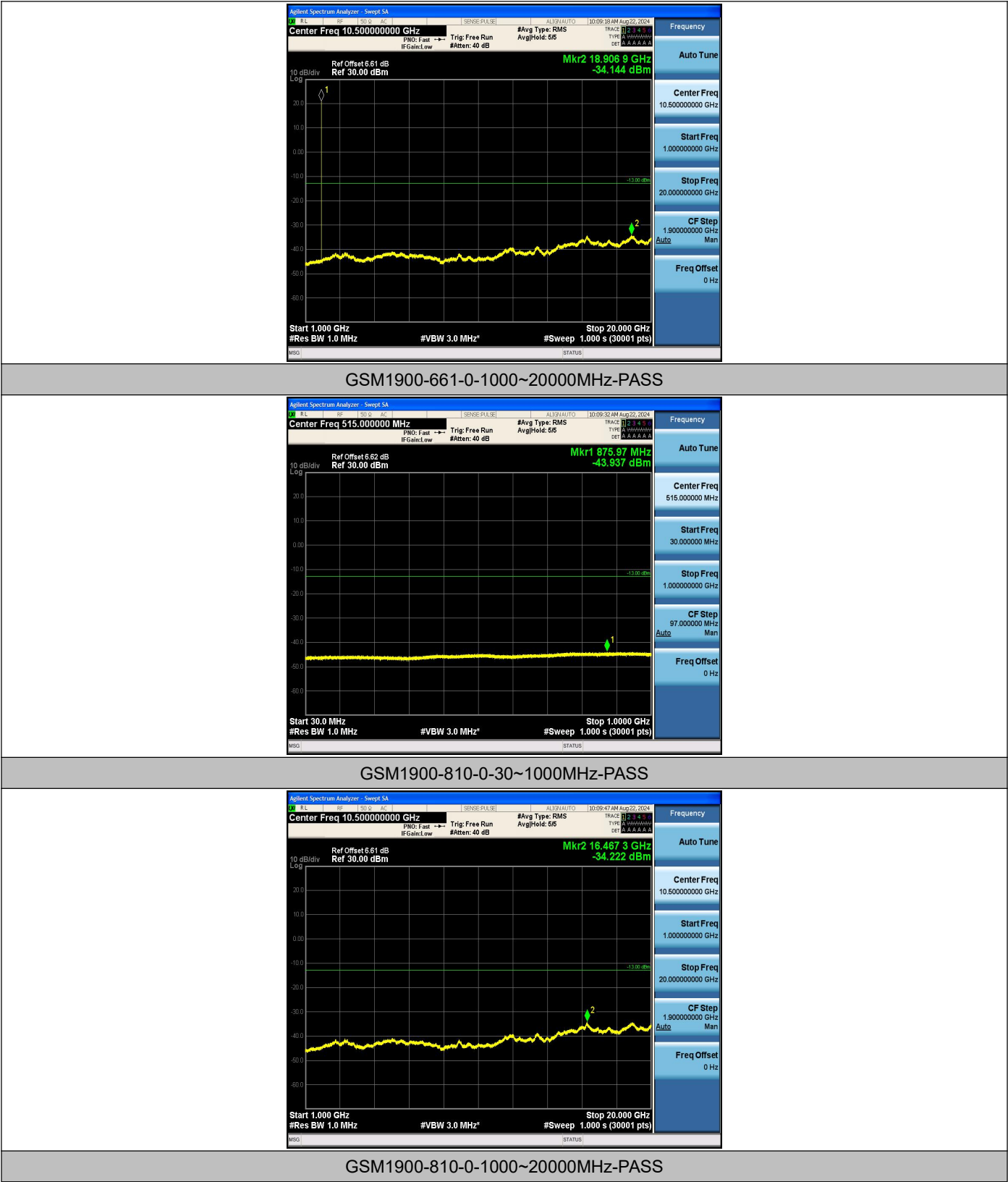
GSM1900-512-0-30~1000MHz-PASS



GSM1900-512-0-1000~20000MHz-PASS



GSM1900-661-0-30~1000MHz-PASS





GPRS1900-512-0-30~1000MHz-PASS



GPRS1900-512-0-1000~20000MHz-PASS



GPRS1900-661-0-30~1000MHz-PASS



GPRS1900-661-0-1000~20000MHz-PASS



GPRS1900-810-0-30~1000MHz-PASS



GPRS1900-810-0-1000~20000MHz-PASS



EGPRS1900-512-2-30~1000MHz-PASS



EGPRS1900-512-2-1000~20000MHz-PASS



EGPRS1900-661-2-30~1000MHz-PASS



EGPRS1900-661-2-1000~20000MHz-PASS



EGPRS1900-810-2-30~1000MHz-PASS



EGPRS1900-810-2-1000~20000MHz-PASS

Appendix F: Frequency Stability

Test Result

Voltage							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	VN	NT	6.39	0.007753	±2.5	PASS
GSM850	128	VL	NT	6.97	0.008457	±2.5	PASS
GSM850	128	VH	NT	6.59	0.007996	±2.5	PASS
GSM850	190	VN	NT	11.95	0.014284	±2.5	PASS
GSM850	190	VL	NT	9.78	0.011690	±2.5	PASS
GSM850	190	VH	NT	9.88	0.011810	±2.5	PASS
GSM850	251	VN	NT	6.33	0.007458	±2.5	PASS
GSM850	251	VL	NT	8.94	0.010533	±2.5	PASS
GSM850	251	VH	NT	6.88	0.008106	±2.5	PASS
GPRS850	128	VN	NT	6.13	0.007438	±2.5	PASS
GPRS850	128	VL	NT	9.91	0.012024	±2.5	PASS
GPRS850	128	VH	NT	6.65	0.008068	±2.5	PASS
GPRS850	190	VN	NT	5.65	0.006754	±2.5	PASS
GPRS850	190	VL	NT	9.23	0.011033	±2.5	PASS
GPRS850	190	VH	NT	9.30	0.011116	±2.5	PASS
GPRS850	251	VN	NT	7.20	0.008483	±2.5	PASS
GPRS850	251	VL	NT	11.11	0.013089	±2.5	PASS
GPRS850	251	VH	NT	4.97	0.005855	±2.5	PASS
EGPRS850	128	VN	NT	0.10	0.000121	±2.5	PASS
EGPRS850	128	VL	NT	-0.87	-0.001056	±2.5	PASS
EGPRS850	128	VH	NT	-0.55	-0.000667	±2.5	PASS
EGPRS850	190	VN	NT	-2.36	-0.002821	±2.5	PASS
EGPRS850	190	VL	NT	2.32	0.002773	±2.5	PASS
EGPRS850	190	VH	NT	3.00	0.003586	±2.5	PASS
EGPRS850	251	VN	NT	5.68	0.006692	±2.5	PASS
EGPRS850	251	VL	NT	-1.00	-0.001178	±2.5	PASS
EGPRS850	251	VH	NT	-0.45	-0.000530	±2.5	PASS
GSM1900	512	VN	NT	25.89	0.013993	±2.5	PASS
GSM1900	512	VL	NT	21.47	0.011604	±2.5	PASS
GSM1900	512	VH	NT	26.02	0.014063	±2.5	PASS
GSM1900	661	VN	NT	24.47	0.013016	±2.5	PASS
GSM1900	661	VL	NT	26.31	0.013995	±2.5	PASS
GSM1900	661	VH	NT	30.83	0.016399	±2.5	PASS
GSM1900	810	VN	NT	26.86	0.014064	±2.5	PASS
GSM1900	810	VL	NT	27.86	0.014588	±2.5	PASS

GSM1900	810	VH	NT	24.92	0.013048	±2.5	PASS
GPRS1900	512	VN	NT	22.15	0.011972	±2.5	PASS
GPRS1900	512	VL	NT	21.95	0.011864	±2.5	PASS
GPRS1900	512	VH	NT	25.02	0.013523	±2.5	PASS
GPRS1900	661	VN	NT	16.72	0.008894	±2.5	PASS
GPRS1900	661	VL	NT	24.70	0.013138	±2.5	PASS
GPRS1900	661	VH	NT	24.21	0.012878	±2.5	PASS
GPRS1900	810	VN	NT	22.86	0.011970	±2.5	PASS
GPRS1900	810	VL	NT	24.63	0.012897	±2.5	PASS
GPRS1900	810	VH	NT	19.66	0.010294	±2.5	PASS
EGPRS1900	512	VN	NT	16.79	0.009075	±2.5	PASS
EGPRS1900	512	VL	NT	16.37	0.008848	±2.5	PASS
EGPRS1900	512	VH	NT	19.47	0.010523	±2.5	PASS
EGPRS1900	661	VN	NT	18.24	0.009702	±2.5	PASS
EGPRS1900	661	VL	NT	15.24	0.008106	±2.5	PASS
EGPRS1900	661	VH	NT	16.43	0.008739	±2.5	PASS
EGPRS1900	810	VN	NT	21.02	0.011006	±2.5	PASS
EGPRS1900	810	VL	NT	22.15	0.011598	±2.5	PASS
EGPRS1900	810	VH	NT	19.34	0.010127	±2.5	PASS

Temperature							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	NV	-30	8.04	0.009755	±2.5	PASS
GSM850	128	NV	-20	7.07	0.008578	±2.5	PASS
GSM850	128	NV	-10	9.49	0.011514	±2.5	PASS
GSM850	128	NV	0	9.07	0.011005	±2.5	PASS
GSM850	128	NV	10	9.65	0.011708	±2.5	PASS
GSM850	128	NV	20	0.55	0.000667	±2.5	PASS
GSM850	128	NV	30	0.13	0.000158	±2.5	PASS
GSM850	128	NV	40	0.65	0.000789	±2.5	PASS
GSM850	128	NV	50	-1.39	-0.001686	±2.5	PASS
GSM850	190	NV	-30	7.01	0.008379	±2.5	PASS
GSM850	190	NV	-20	11.20	0.013388	±2.5	PASS
GSM850	190	NV	-10	8.30	0.009921	±2.5	PASS
GSM850	190	NV	0	7.10	0.008487	±2.5	PASS
GSM850	190	NV	10	8.46	0.010112	±2.5	PASS
GSM850	190	NV	20	9.14	0.010925	±2.5	PASS
GSM850	190	NV	30	1.00	0.001195	±2.5	PASS
GSM850	190	NV	40	0.52	0.000622	±2.5	PASS
GSM850	190	NV	50	2.71	0.003239	±2.5	PASS
GSM850	251	NV	-30	8.65	0.010191	±2.5	PASS

GSM850	251	NV	-20	6.62	0.007799	±2.5	PASS
GSM850	251	NV	-10	5.81	0.006845	±2.5	PASS
GSM850	251	NV	0	9.07	0.010686	±2.5	PASS
GSM850	251	NV	10	4.91	0.005785	±2.5	PASS
GSM850	251	NV	20	6.78	0.007988	±2.5	PASS
GSM850	251	NV	30	3.26	0.003841	±2.5	PASS
GSM850	251	NV	40	1.32	0.001555	±2.5	PASS
GSM850	251	NV	50	2.23	0.002627	±2.5	PASS
GPRS850	128	NV	-30	5.33	0.006467	±2.5	PASS
GPRS850	128	NV	-20	8.62	0.010459	±2.5	PASS
GPRS850	128	NV	-10	3.39	0.004113	±2.5	PASS
GPRS850	128	NV	0	3.13	0.003798	±2.5	PASS
GPRS850	128	NV	10	7.07	0.008578	±2.5	PASS
GPRS850	128	NV	20	4.00	0.004853	±2.5	PASS
GPRS850	128	NV	30	9.91	0.012024	±2.5	PASS
GPRS850	128	NV	40	9.94	0.012060	±2.5	PASS
GPRS850	128	NV	50	8.33	0.010107	±2.5	PASS
GPRS850	190	NV	-30	9.04	0.010806	±2.5	PASS
GPRS850	190	NV	-20	7.43	0.008881	±2.5	PASS
GPRS850	190	NV	-10	4.00	0.004781	±2.5	PASS
GPRS850	190	NV	0	6.75	0.008068	±2.5	PASS
GPRS850	190	NV	10	8.59	0.010268	±2.5	PASS
GPRS850	190	NV	20	5.36	0.006407	±2.5	PASS
GPRS850	190	NV	30	7.07	0.008451	±2.5	PASS
GPRS850	190	NV	40	11.59	0.013854	±2.5	PASS
GPRS850	190	NV	50	3.78	0.004518	±2.5	PASS
GPRS850	251	NV	-30	8.01	0.009437	±2.5	PASS
GPRS850	251	NV	-20	10.36	0.012205	±2.5	PASS
GPRS850	251	NV	-10	4.88	0.005749	±2.5	PASS
GPRS850	251	NV	0	6.78	0.007988	±2.5	PASS
GPRS850	251	NV	10	7.10	0.008365	±2.5	PASS
GPRS850	251	NV	20	11.40	0.013431	±2.5	PASS
GPRS850	251	NV	30	6.04	0.007116	±2.5	PASS
GPRS850	251	NV	40	5.55	0.006539	±2.5	PASS
GPRS850	251	NV	50	6.91	0.008141	±2.5	PASS
EGPRS850	128	NV	-30	1.94	0.002354	±2.5	PASS
EGPRS850	128	NV	-20	1.19	0.001444	±2.5	PASS
EGPRS850	128	NV	-10	1.39	0.001686	±2.5	PASS
EGPRS850	128	NV	0	-0.23	-0.000279	±2.5	PASS
EGPRS850	128	NV	10	4.84	0.005872	±2.5	PASS
EGPRS850	128	NV	20	3.71	0.004501	±2.5	PASS
EGPRS850	128	NV	30	0.52	0.000631	±2.5	PASS

EGPRS850	128	NV	40	-4.20	-0.005096	±2.5	PASS
EGPRS850	128	NV	50	-5.68	-0.006892	±2.5	PASS
EGPRS850	190	NV	-30	4.07	0.004865	±2.5	PASS
EGPRS850	190	NV	-20	0.74	0.000885	±2.5	PASS
EGPRS850	190	NV	-10	-2.03	-0.002426	±2.5	PASS
EGPRS850	190	NV	0	0.26	0.000311	±2.5	PASS
EGPRS850	190	NV	10	-0.23	-0.000275	±2.5	PASS
EGPRS850	190	NV	20	-4.42	-0.005283	±2.5	PASS
EGPRS850	190	NV	30	-0.23	-0.000275	±2.5	PASS
EGPRS850	190	NV	40	1.55	0.001853	±2.5	PASS
EGPRS850	190	NV	50	4.04	0.004829	±2.5	PASS
EGPRS850	251	NV	-30	2.07	0.002439	±2.5	PASS
EGPRS850	251	NV	-20	2.13	0.002509	±2.5	PASS
EGPRS850	251	NV	-10	2.55	0.003004	±2.5	PASS
EGPRS850	251	NV	0	4.62	0.005443	±2.5	PASS
EGPRS850	251	NV	10	0.68	0.000801	±2.5	PASS
EGPRS850	251	NV	20	2.78	0.003275	±2.5	PASS
EGPRS850	251	NV	30	1.78	0.002097	±2.5	PASS
EGPRS850	251	NV	40	3.39	0.003994	±2.5	PASS
EGPRS850	251	NV	50	-0.65	-0.000766	±2.5	PASS
GSM1900	512	NV	-30	25.28	0.013663	±2.5	PASS
GSM1900	512	NV	-20	24.44	0.013209	±2.5	PASS
GSM1900	512	NV	-10	23.96	0.012950	±2.5	PASS
GSM1900	512	NV	0	24.12	0.013036	±2.5	PASS
GSM1900	512	NV	10	28.31	0.015301	±2.5	PASS
GSM1900	512	NV	20	23.73	0.012826	±2.5	PASS
GSM1900	512	NV	30	16.63	0.008988	±2.5	PASS
GSM1900	512	NV	40	19.37	0.010469	±2.5	PASS
GSM1900	512	NV	50	25.89	0.013993	±2.5	PASS
GSM1900	661	NV	-30	26.35	0.014016	±2.5	PASS
GSM1900	661	NV	-20	24.96	0.013277	±2.5	PASS
GSM1900	661	NV	-10	26.18	0.013926	±2.5	PASS
GSM1900	661	NV	0	28.86	0.015351	±2.5	PASS
GSM1900	661	NV	10	30.90	0.016436	±2.5	PASS
GSM1900	661	NV	20	27.22	0.014479	±2.5	PASS
GSM1900	661	NV	30	24.21	0.012878	±2.5	PASS
GSM1900	661	NV	40	20.89	0.011112	±2.5	PASS
GSM1900	661	NV	50	21.63	0.011505	±2.5	PASS
GSM1900	810	NV	-30	25.57	0.013389	±2.5	PASS
GSM1900	810	NV	-20	26.86	0.014064	±2.5	PASS
GSM1900	810	NV	-10	29.19	0.015284	±2.5	PASS
GSM1900	810	NV	0	27.31	0.014300	±2.5	PASS

GSM1900	810	NV	10	28.09	0.014708	±2.5	PASS
GSM1900	810	NV	20	24.63	0.012897	±2.5	PASS
GSM1900	810	NV	30	21.08	0.011038	±2.5	PASS
GSM1900	810	NV	40	22.99	0.012038	±2.5	PASS
GSM1900	810	NV	50	20.76	0.010870	±2.5	PASS
GPRS1900	512	NV	-30	19.86	0.010734	±2.5	PASS
GPRS1900	512	NV	-20	22.02	0.011901	±2.5	PASS
GPRS1900	512	NV	-10	23.25	0.012566	±2.5	PASS
GPRS1900	512	NV	0	24.05	0.012999	±2.5	PASS
GPRS1900	512	NV	10	23.67	0.012793	±2.5	PASS
GPRS1900	512	NV	20	24.15	0.013053	±2.5	PASS
GPRS1900	512	NV	30	28.54	0.015425	±2.5	PASS
GPRS1900	512	NV	40	32.74	0.017695	±2.5	PASS
GPRS1900	512	NV	50	25.80	0.013944	±2.5	PASS
GPRS1900	661	NV	-30	20.40	0.010851	±2.5	PASS
GPRS1900	661	NV	-20	22.99	0.012229	±2.5	PASS
GPRS1900	661	NV	-10	20.99	0.011165	±2.5	PASS
GPRS1900	661	NV	0	18.14	0.009649	±2.5	PASS
GPRS1900	661	NV	10	15.66	0.008330	±2.5	PASS
GPRS1900	661	NV	20	19.53	0.010388	±2.5	PASS
GPRS1900	661	NV	30	20.50	0.010904	±2.5	PASS
GPRS1900	661	NV	40	20.89	0.011112	±2.5	PASS
GPRS1900	661	NV	50	29.09	0.015473	±2.5	PASS
GPRS1900	810	NV	-30	20.73	0.010855	±2.5	PASS
GPRS1900	810	NV	-20	19.82	0.010378	±2.5	PASS
GPRS1900	810	NV	-10	15.95	0.008352	±2.5	PASS
GPRS1900	810	NV	0	19.53	0.010226	±2.5	PASS
GPRS1900	810	NV	10	17.82	0.009331	±2.5	PASS
GPRS1900	810	NV	20	18.79	0.009839	±2.5	PASS
GPRS1900	810	NV	30	23.28	0.012190	±2.5	PASS
GPRS1900	810	NV	40	18.85	0.009870	±2.5	PASS
GPRS1900	810	NV	50	24.47	0.012813	±2.5	PASS
EGPRS1900	512	NV	-30	20.24	0.010939	±2.5	PASS
EGPRS1900	512	NV	-20	21.63	0.011691	±2.5	PASS
EGPRS1900	512	NV	-10	14.53	0.007853	±2.5	PASS
EGPRS1900	512	NV	0	20.11	0.010869	±2.5	PASS
EGPRS1900	512	NV	10	14.27	0.007713	±2.5	PASS
EGPRS1900	512	NV	20	17.60	0.009512	±2.5	PASS
EGPRS1900	512	NV	30	11.14	0.006021	±2.5	PASS
EGPRS1900	512	NV	40	-1.45	-0.000784	±2.5	PASS
EGPRS1900	512	NV	50	-5.07	-0.002740	±2.5	PASS
EGPRS1900	661	NV	-30	16.69	0.008878	±2.5	PASS

EGPRS1900	661	NV	-20	25.31	0.013463	±2.5	PASS
EGPRS1900	661	NV	-10	13.88	0.007383	±2.5	PASS
EGPRS1900	661	NV	0	13.01	0.006920	±2.5	PASS
EGPRS1900	661	NV	10	19.76	0.010511	±2.5	PASS
EGPRS1900	661	NV	20	8.94	0.004755	±2.5	PASS
EGPRS1900	661	NV	30	16.05	0.008537	±2.5	PASS
EGPRS1900	661	NV	40	16.30	0.008670	±2.5	PASS
EGPRS1900	661	NV	50	10.82	0.005755	±2.5	PASS
EGPRS1900	810	NV	-30	18.63	0.009755	±2.5	PASS
EGPRS1900	810	NV	-20	20.24	0.010598	±2.5	PASS
EGPRS1900	810	NV	-10	17.98	0.009415	±2.5	PASS
EGPRS1900	810	NV	0	18.40	0.009635	±2.5	PASS
EGPRS1900	810	NV	10	19.76	0.010347	±2.5	PASS
EGPRS1900	810	NV	20	21.99	0.011514	±2.5	PASS
EGPRS1900	810	NV	30	20.24	0.010598	±2.5	PASS
EGPRS1900	810	NV	40	19.60	0.010263	±2.5	PASS
EGPRS1900	810	NV	50	18.11	0.009483	±2.5	PASS

Appendix G: ERP and EIRP

Test Result

FCC

Band	Mode	Conducted Power (dBm)	Antenna Gain (dBi)	ERP		Limit (W)	Verdict
				(dBm)	(W)		
GSM850	GSM	32.59	0.00	30.44	1.1066	7	PASS
	GPRS	34.17	0.00	32.02	1.5922	7	PASS
	EGPRS	26.87	0.00	24.72	0.2965	7	PASS

Band	Mode	Conducted Power (dBm)	Antenna Gain (dBi)	EIRP		Limit (W)	Verdict
				(dBm)	(W)		
GSM1900	GSM	30.31	0.00	30.31	1.0740	2	PASS
	GPRS	30.24	0.00	30.24	1.0568	2	PASS
	EGPRS	27.23	0.00	27.23	0.5284	2	PASS

-----End of the Report -----