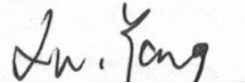


APPENDIX REPORT

Project No.	SHT2407091302W	Radio Specification	GSM
Test sample No.	YPHT24070913001_01	Model No.	GT32
Start test date	2024-08-13	Finish date	2024-08-13
Temperature	23.5℃	Humidity	56%
Test Engineer	Xiaodong Zhao	Auditor	

Appendix clause	Test item	Result
A	Conducted Output Power	PASS
B	Peak-to-Average Ratio	PASS
C	26 dB Bandwidth and Occupied Bandwidth	PASS
D	Band edge	PASS
E	Conducted Spurious Emission	PASS
F	Frequency Stability	PASS
G	ERP and EIRP	PASS

Appendix A: Conducted Output Power

Test Result

Band	Channel	Power(dBm)	Limit(dBm)	Verdict
GSM850	128	34.13	38.45	PASS
GSM850	190	34.18	38.45	PASS
GSM850	251	34.19	38.45	PASS
GSM1900	512	30.13	33.00	PASS
GSM1900	661	30.26	33.00	PASS
GSM1900	810	30.02	33.00	PASS

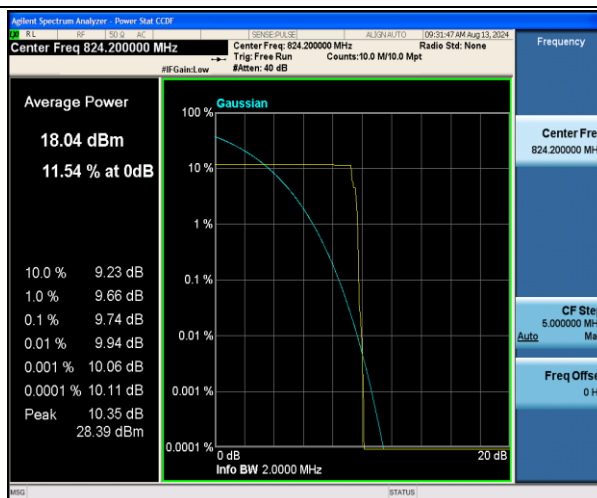
Band	Channel	Slot	Power(dBm)	Limit(dBm)	Verdict
GPRS850	128	1	34.17	38.45	PASS
GPRS850	128	2	32.18	38.45	PASS
GPRS850	128	3	30.32	38.45	PASS
GPRS850	128	4	28.16	38.45	PASS
GPRS850	190	1	34.17	38.45	PASS
GPRS850	190	2	32.30	38.45	PASS
GPRS850	190	3	30.49	38.45	PASS
GPRS850	190	4	28.36	38.45	PASS
GPRS850	251	1	34.06	38.45	PASS
GPRS850	251	2	32.15	38.45	PASS
GPRS850	251	3	30.36	38.45	PASS
GPRS850	251	4	28.23	38.45	PASS
GPRS1900	512	1	30.20	33.00	PASS
GPRS1900	512	2	27.73	33.00	PASS
GPRS1900	512	3	26.22	33.00	PASS
GPRS1900	512	4	24.22	33.00	PASS
GPRS1900	661	1	30.24	33.00	PASS
GPRS1900	661	2	27.90	33.00	PASS
GPRS1900	661	3	26.38	33.00	PASS
GPRS1900	661	4	24.40	33.00	PASS
GPRS1900	810	1	29.97	33.00	PASS
GPRS1900	810	2	27.60	33.00	PASS
GPRS1900	810	3	26.10	33.00	PASS
GPRS1900	810	4	24.09	33.00	PASS

Appendix B: Peak-to-Average Ratio(CCDF)

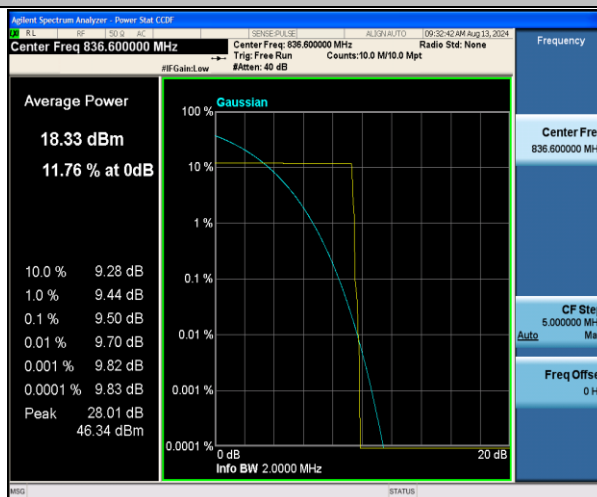
Test Result

Band	Channel	Result(dB)	Limit(dB)	Verdict
GSM850	128	9.74	13	PASS
GSM850	190	9.50	13	PASS
GSM850	251	9.54	13	PASS
GPRS850	128	10.06	13	PASS
GPRS850	190	9.54	13	PASS
GPRS850	251	9.60	13	PASS
GSM1900	512	9.44	13	PASS
GSM1900	661	9.47	13	PASS
GSM1900	810	9.33	13	PASS
GPRS1900	512	9.78	13	PASS
GPRS1900	661	9.49	13	PASS
GPRS1900	810	9.60	13	PASS

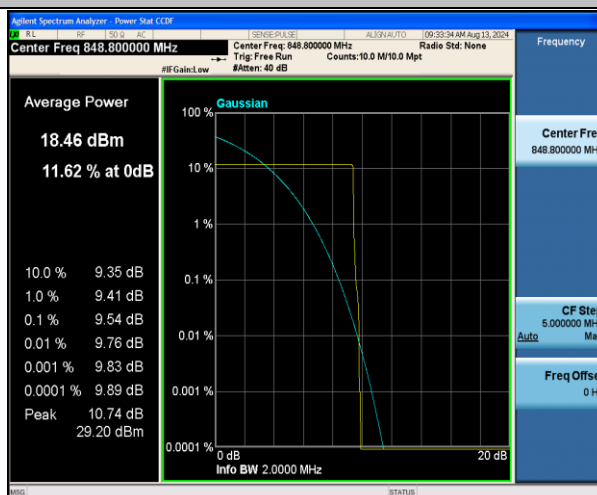
Test Graphs



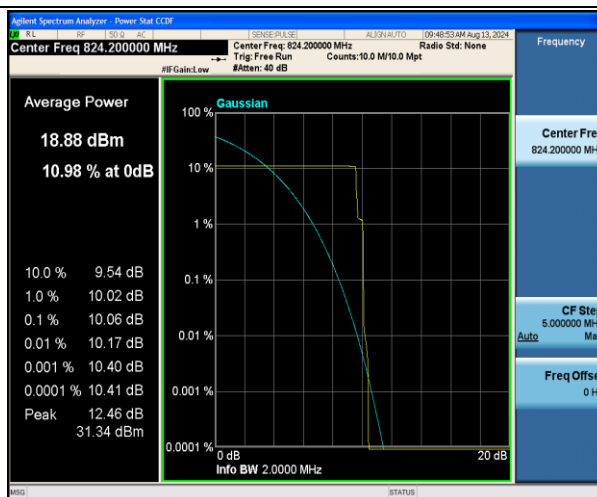
GSM850-128-5-PASS



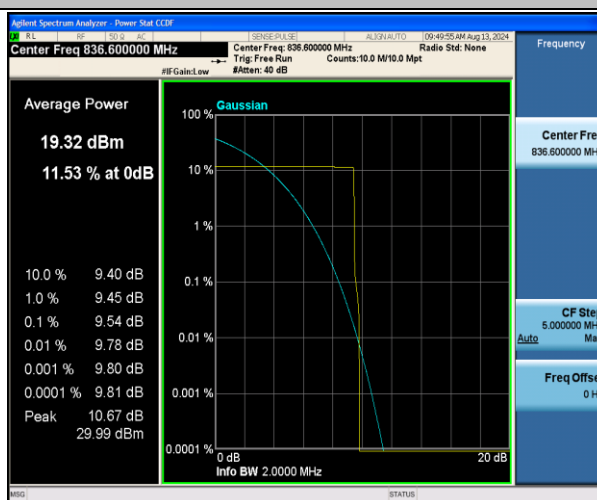
GSM850-190-5-PASS



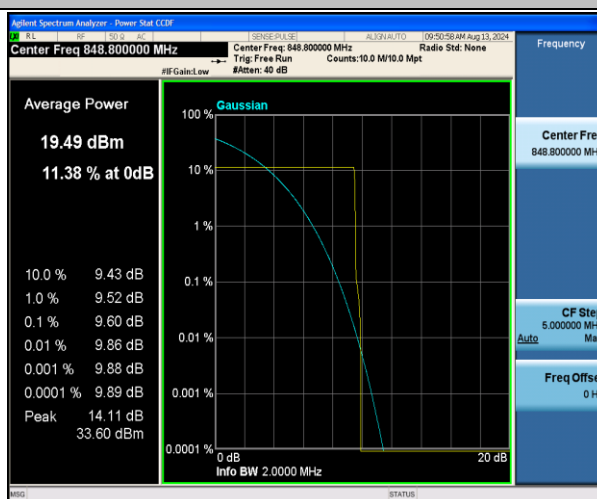
GSM850-251-5-PASS



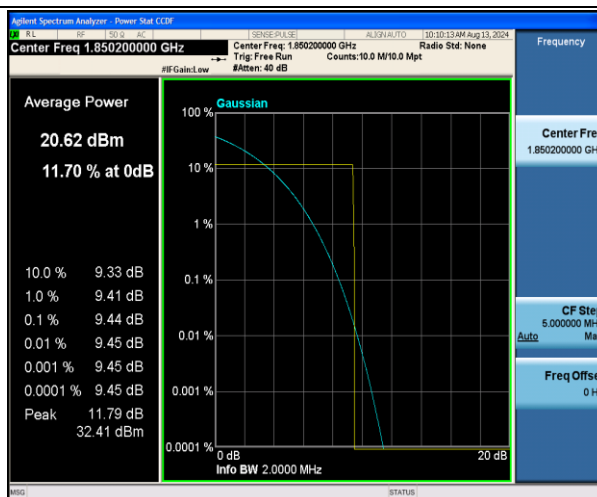
GPRS850-128-5-PASS



GPRS850-190-5-PASS



GPRS850-251-5-PASS



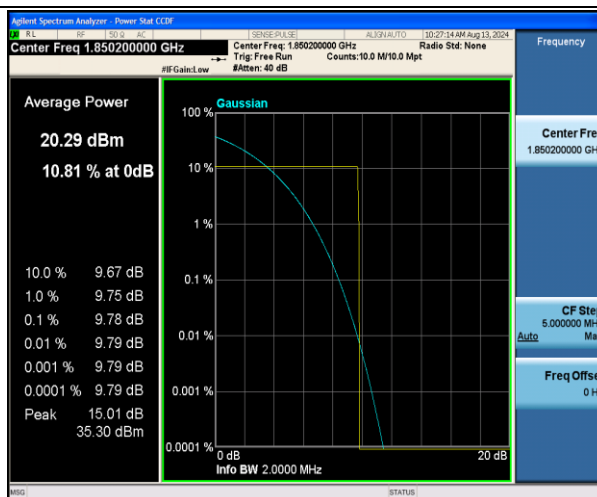
GSM1900-512-0-PASS



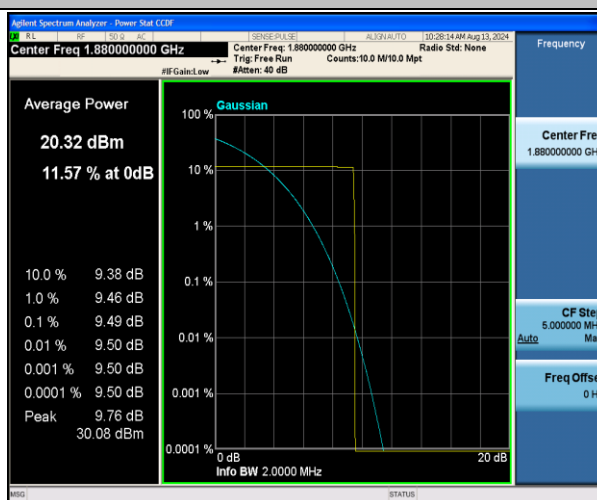
GSM1900-661-0-PASS



GSM1900-810-0-PASS



GPRS1900-512-0-PASS



GPRS1900-661-0-PASS



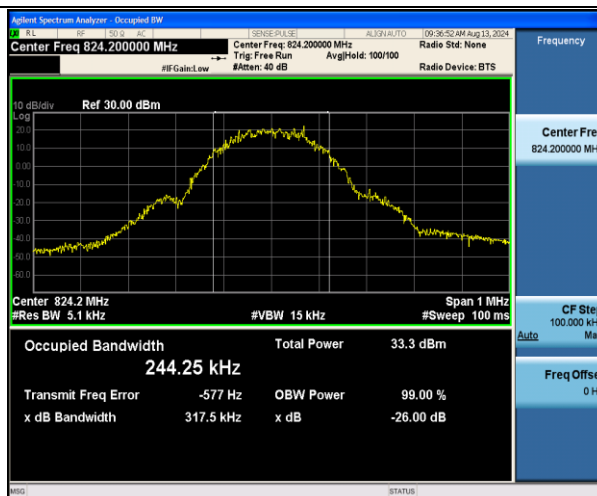
GPRS1900-810-0-PASS

Appendix C: 26dB Bandwidth and Occupied Bandwidth

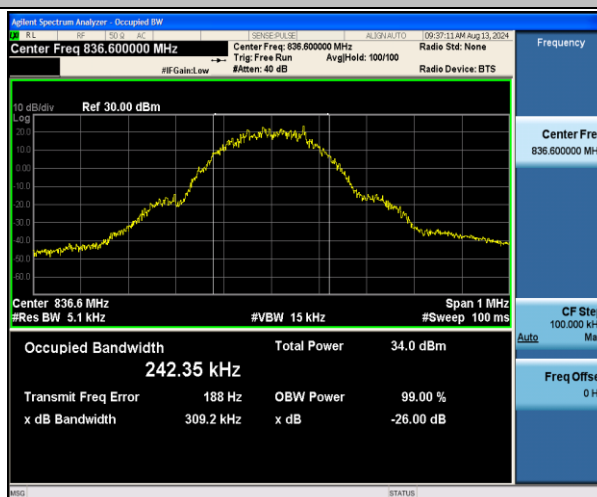
Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	0.24425	0.3175	---	PASS
GSM850	190	0.24235	0.3092	---	PASS
GSM850	251	0.24765	0.3172	---	PASS
GPRS850	128	0.24137	0.3052	---	PASS
GPRS850	190	0.24282	0.3108	---	PASS
GPRS850	251	0.24433	0.3114	---	PASS
GSM1900	512	0.24754	0.3124	---	PASS
GSM1900	661	0.24444	0.3149	---	PASS
GSM1900	810	0.24726	0.3182	---	PASS
GPRS1900	512	0.24286	0.3108	---	PASS
GPRS1900	661	0.24151	0.3132	---	PASS
GPRS1900	810	0.24220	0.3088	---	PASS

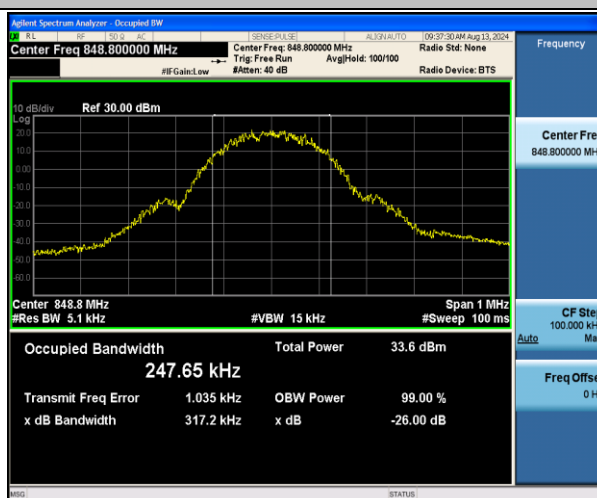
Test Graphs



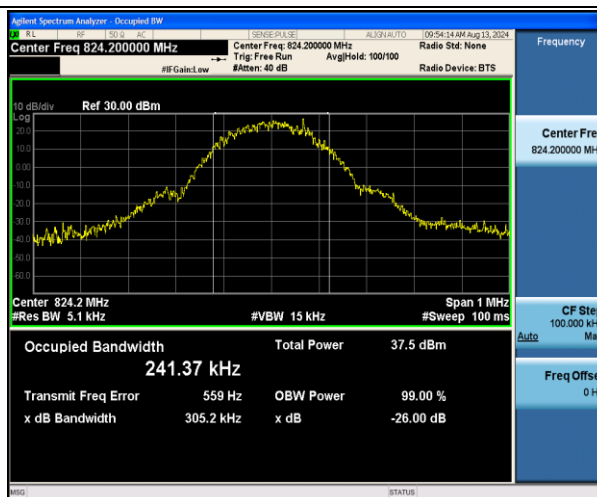
GSM850-128-5-PASS



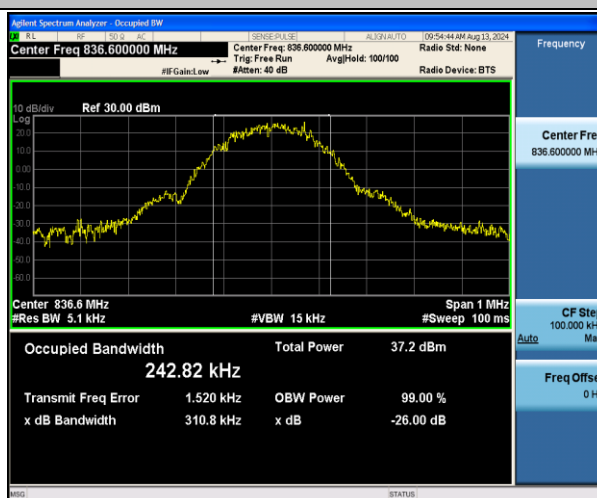
GSM850-190-5-PASS



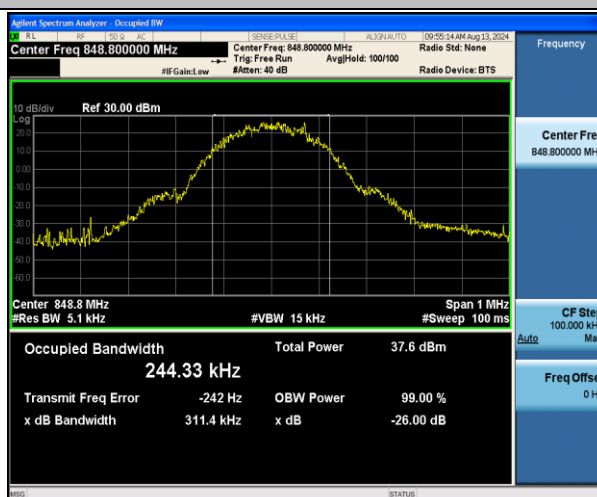
GSM850-251-5-PASS



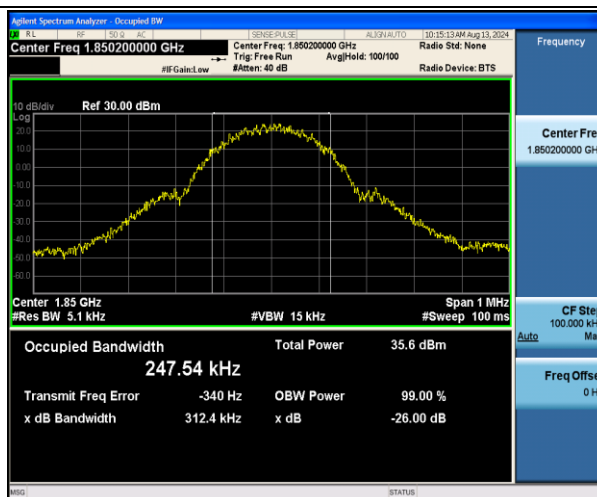
GPRS850-128-5-PASS



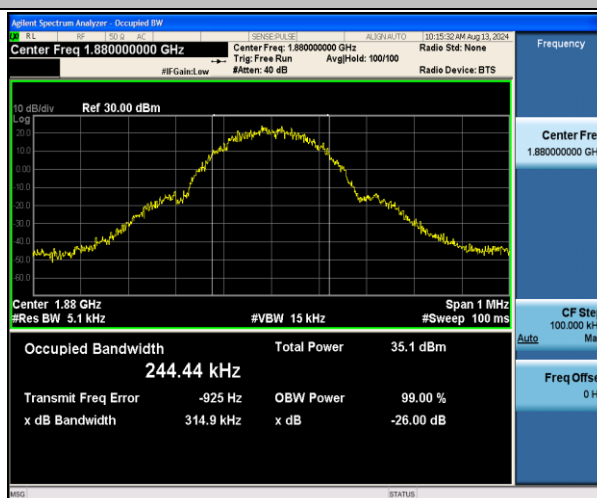
GPRS850-190-5-PASS



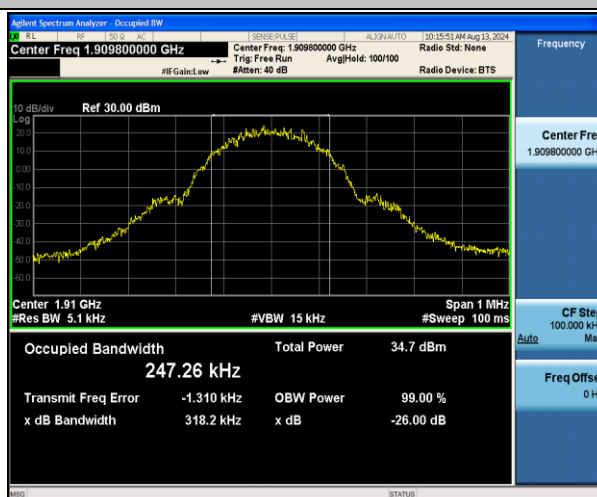
GPRS850-251-5-PASS



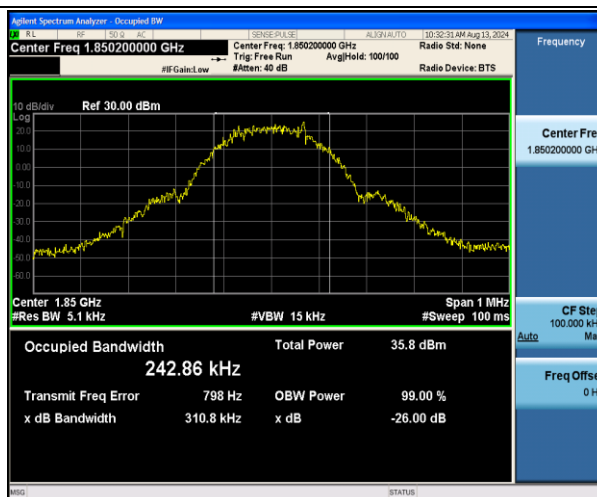
GSM1900-512-0-PASS



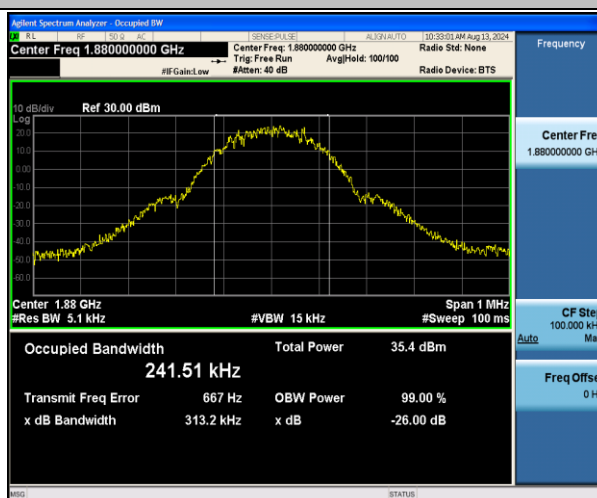
GSM1900-661-0-PASS



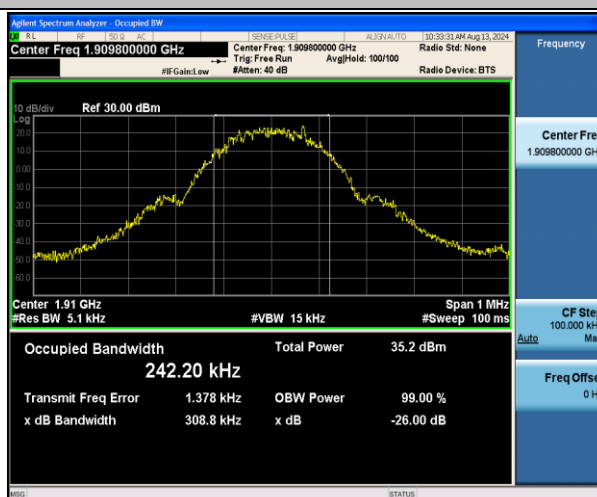
GSM1900-810-0-PASS



GPRS1900-512-0-PASS



GPRS1900-661-0-PASS



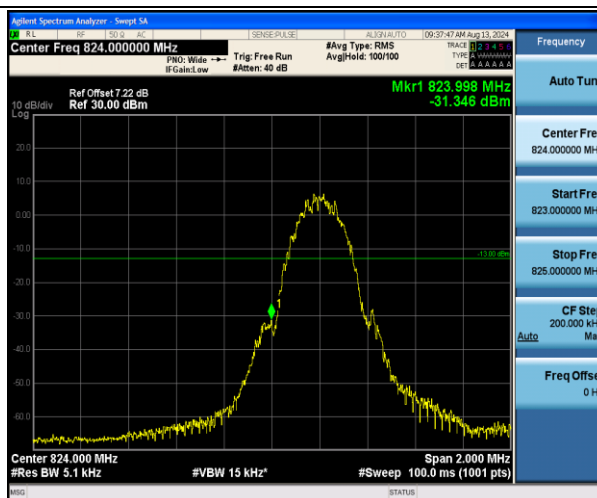
GPRS1900-810-0-PASS

Appendix D: Band Edge

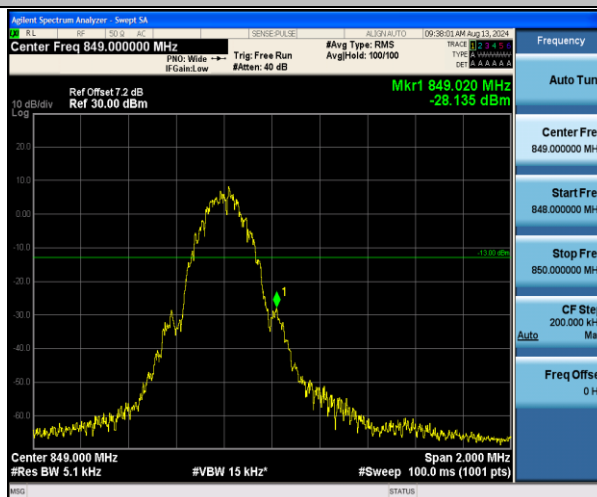
Test Result

Band	Channel	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	824.00	-31.35	-13	PASS
GSM850	251	849.02	-28.14	-13	PASS
GPRS850	128	823.98	-26.43	-13	PASS
GPRS850	251	849.02	-23.91	-13	PASS
GSM1900	512	1849.98	-27.84	-13	PASS
GSM1900	810	1910.02	-28.87	-13	PASS
GPRS1900	512	1850.00	-28.36	-13	PASS
GPRS1900	810	1910.00	-28.85	-13	PASS

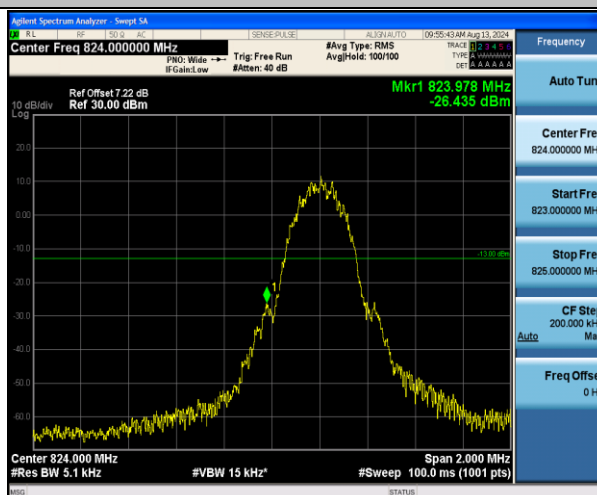
Test Graphs



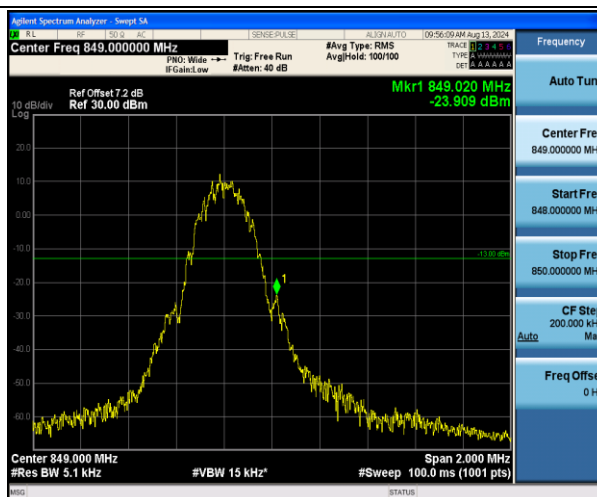
GSM850-128-5-PASS



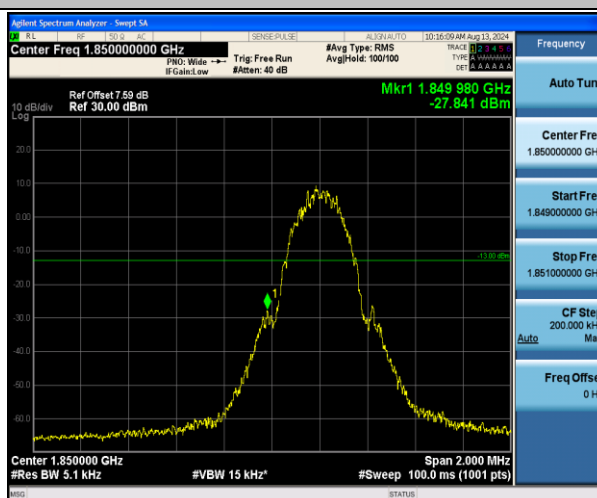
GSM850-251-5-PASS



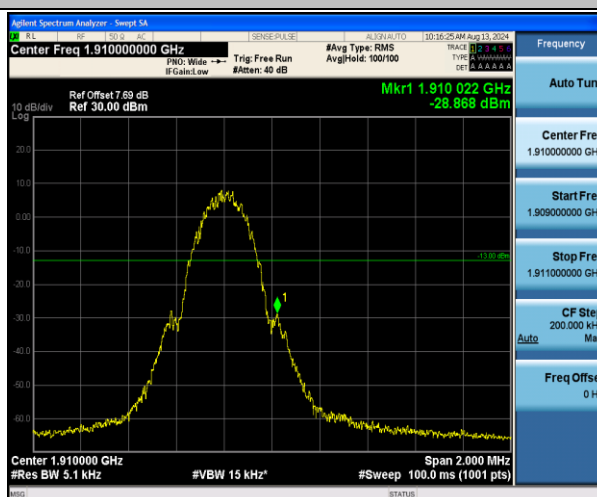
GPRS850-128-5-PASS



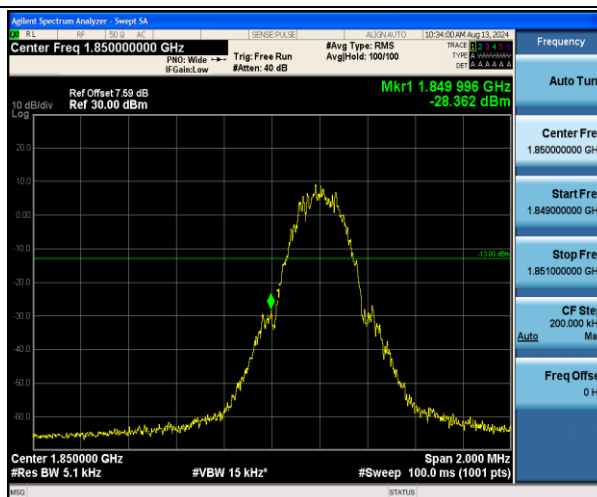
GPRS850-251-5-PASS



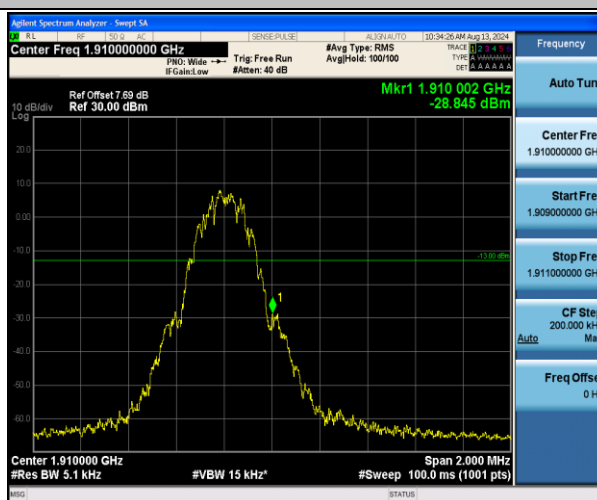
GSM1900-512-0-PASS



GSM1900-810-0-PASS



GPRS1900-512-0-PASS



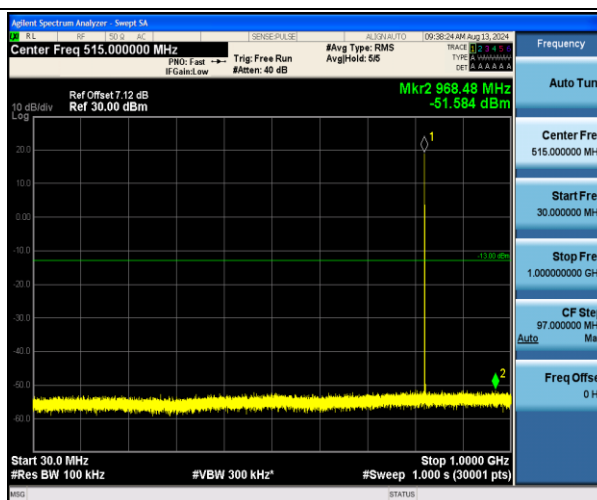
GPRS1900-810-0-PASS

Appendix E: Conducted Spurious Emission

Test Result

Band	Channel	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	30~1000MHz	968.48	-51.58	-13	PASS
GSM850	128	1000~10000MHz	2472.7	-37.4	-13	PASS
GSM850	190	30~1000MHz	979.95	-51.33	-13	PASS
GSM850	190	1000~10000MHz	2509.6	-37.62	-13	PASS
GSM850	251	30~1000MHz	979.53	-51.75	-13	PASS
GSM850	251	1000~10000MHz	2546.5	-37.9	-13	PASS
GPRS850	128	30~1000MHz	991.88	-51.64	-13	PASS
GPRS850	128	1000~10000MHz	1648.3	-39.65	-13	PASS
GPRS850	190	30~1000MHz	997.41	-52.03	-13	PASS
GPRS850	190	1000~10000MHz	2509.6	-39.58	-13	PASS
GSM1900	512	30~1000MHz	905	-43.16	-13	PASS
GSM1900	512	1000~20000MHz	18900.53	-33.63	-13	PASS
GSM1900	661	30~1000MHz	912.73	-43.2	-13	PASS
GSM1900	661	1000~20000MHz	16442.57	-33.55	-13	PASS
GSM1900	810	30~1000MHz	967.89	-43.32	-13	PASS
GSM1900	810	1000~20000MHz	18991.73	-33.68	-13	PASS
GPRS1900	512	30~1000MHz	963.2	-43.34	-13	PASS
GPRS1900	512	1000~20000MHz	18977.17	-33.97	-13	PASS
GPRS850	251	30~1000MHz	965.05	-51.88	-13	PASS
GPRS850	251	1000~10000MHz	5793.7	-40.12	-13	PASS
GPRS1900	661	30~1000MHz	917.55	-43.26	-13	PASS
GPRS1900	661	1000~20000MHz	18920.17	-33.75	-13	PASS
GPRS1900	810	30~1000MHz	963.01	-43.32	-13	PASS
GPRS1900	810	1000~20000MHz	18956.9	-33.67	-13	PASS

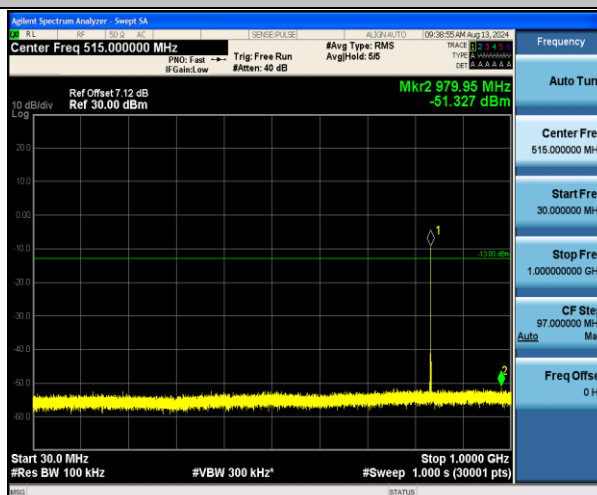
Test Graphs



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



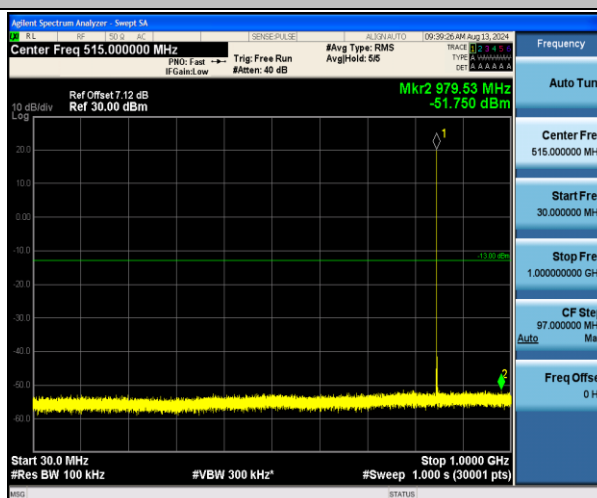
GSM850-128-5-1000~10000MHz-PASS



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



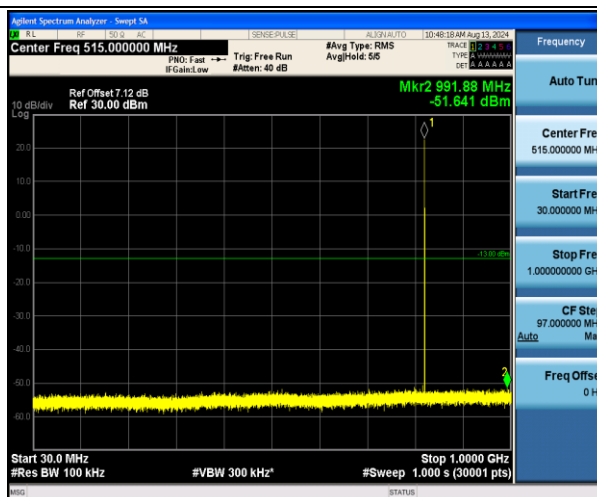
GSM850-190-5-1000~10000MHz-PASS



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



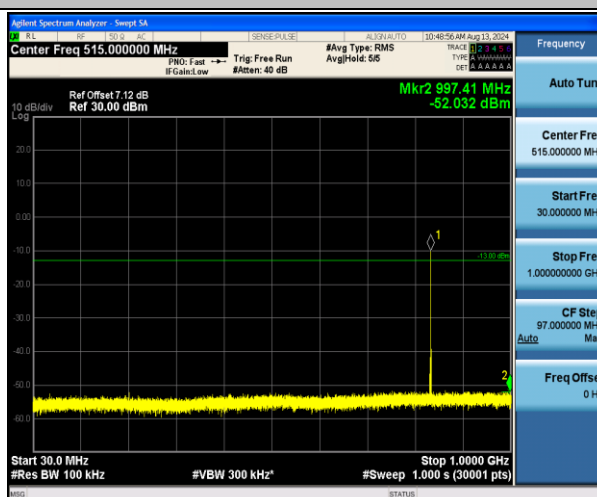
GSM850-251-5-1000~10000MHz-PASS



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



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



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



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



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



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



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



GSM1900-661-0-1000~20000MHz-PASS



GSM1900-810-0-30~1000MHz-PASS



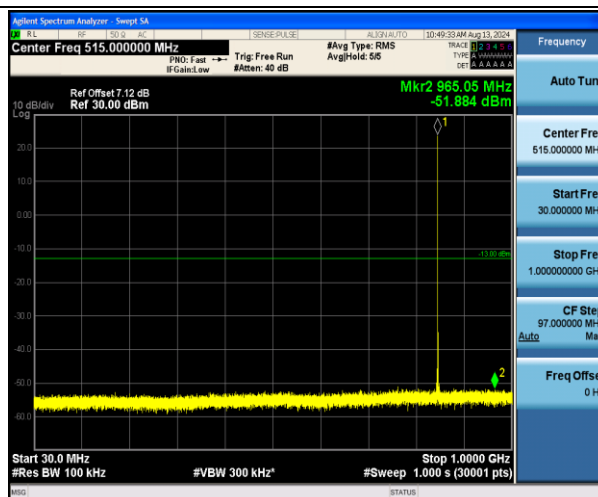
GSM1900-810-0-1000~20000MHz-PASS



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



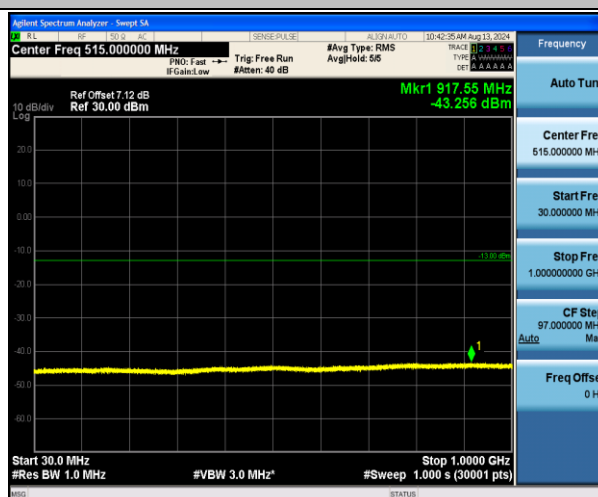
GPRS1900-512-0-1000~20000MHz-PASS



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



GPRS850-251-5-1000~10000MHz-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

Appendix F: Frequency Stability

Test Result

Voltage							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	VN	NT	0.23	0.000279	±2.5	PASS
GSM850	128	VL	NT	-12.43	-0.015081	±2.5	PASS
GSM850	128	VH	NT	0.74	0.000898	±2.5	PASS
GSM850	190	VN	NT	-8.33	-0.009957	±2.5	PASS
GSM850	190	VL	NT	-4.94	-0.005905	±2.5	PASS
GSM850	190	VH	NT	1.78	0.002128	±2.5	PASS
GSM850	251	VN	NT	7.33	0.008636	±2.5	PASS
GSM850	251	VL	NT	-5.17	-0.006091	±2.5	PASS
GSM850	251	VH	NT	-2.94	-0.003464	±2.5	PASS
GPRS850	128	VN	NT	-1.45	-0.001759	±2.5	PASS
GPRS850	128	VL	NT	-5.97	-0.007243	±2.5	PASS
GPRS850	128	VH	NT	-2.94	-0.003567	±2.5	PASS
GPRS850	190	VN	NT	-1.03	-0.001231	±2.5	PASS
GPRS850	190	VL	NT	-2.49	-0.002976	±2.5	PASS
GPRS850	190	VH	NT	-4.88	-0.005833	±2.5	PASS
GPRS850	251	VN	NT	-0.84	-0.000990	±2.5	PASS
GPRS850	251	VL	NT	-1.55	-0.001826	±2.5	PASS
GPRS850	251	VH	NT	-3.45	-0.004065	±2.5	PASS
GSM1900	512	VN	NT	-2.32	-0.001254	±2.5	PASS
GSM1900	512	VL	NT	1.65	0.000892	±2.5	PASS
GSM1900	512	VH	NT	-1.87	-0.001011	±2.5	PASS
GSM1900	661	VN	NT	-1.13	-0.000601	±2.5	PASS
GSM1900	661	VL	NT	2.16	0.001149	±2.5	PASS
GSM1900	661	VH	NT	-8.17	-0.004346	±2.5	PASS
GSM1900	810	VN	NT	-2.58	-0.001351	±2.5	PASS
GSM1900	810	VL	NT	-10.65	-0.005577	±2.5	PASS
GSM1900	810	VH	NT	-6.36	-0.003330	±2.5	PASS
GPRS1900	512	VN	NT	-3.10	-0.001675	±2.5	PASS
GPRS1900	512	VL	NT	6.04	0.003265	±2.5	PASS
GPRS1900	512	VH	NT	1.00	0.000540	±2.5	PASS
GPRS1900	661	VN	NT	4.68	0.002489	±2.5	PASS
GPRS1900	661	VL	NT	-6.26	-0.003330	±2.5	PASS
GPRS1900	661	VH	NT	4.33	0.002303	±2.5	PASS
GPRS1900	810	VN	NT	1.45	0.000759	±2.5	PASS
GPRS1900	810	VL	NT	-0.71	-0.000372	±2.5	PASS
GPRS1900	810	VH	NT	-9.91	-0.005189	±2.5	PASS

Temperature							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	NV	-30	-2.91	-0.003531	±2.5	PASS
GSM850	128	NV	-20	1.29	0.001565	±2.5	PASS
GSM850	128	NV	-10	-11.82	-0.014341	±2.5	PASS
GSM850	128	NV	0	-9.04	-0.010968	±2.5	PASS
GSM850	128	NV	10	-4.26	-0.005169	±2.5	PASS
GSM850	128	NV	20	6.13	0.007438	±2.5	PASS
GSM850	128	NV	30	8.98	0.010895	±2.5	PASS
GSM850	128	NV	40	-6.52	-0.007911	±2.5	PASS
GSM850	128	NV	50	-2.26	-0.002742	±2.5	PASS
GSM850	190	NV	-30	-6.72	-0.008033	±2.5	PASS
GSM850	190	NV	-20	2.58	0.003084	±2.5	PASS
GSM850	190	NV	-10	-5.88	-0.007028	±2.5	PASS
GSM850	190	NV	0	6.52	0.007793	±2.5	PASS
GSM850	190	NV	10	4.52	0.005403	±2.5	PASS
GSM850	190	NV	20	-7.33	-0.008762	±2.5	PASS
GSM850	190	NV	30	5.10	0.006096	±2.5	PASS
GSM850	190	NV	40	-6.46	-0.007722	±2.5	PASS
GSM850	190	NV	50	3.45	0.004124	±2.5	PASS
GSM850	251	NV	-30	-7.23	-0.008518	±2.5	PASS
GSM850	251	NV	-20	-7.75	-0.009131	±2.5	PASS
GSM850	251	NV	-10	-2.58	-0.003040	±2.5	PASS
GSM850	251	NV	0	-1.52	-0.001791	±2.5	PASS
GSM850	251	NV	10	1.94	0.002286	±2.5	PASS
GSM850	251	NV	20	-3.94	-0.004642	±2.5	PASS
GSM850	251	NV	30	-3.87	-0.004559	±2.5	PASS
GSM850	251	NV	40	-7.88	-0.009284	±2.5	PASS
GSM850	251	NV	50	1.26	0.001484	±2.5	PASS
GPRS850	128	NV	-30	-2.58	-0.003130	±2.5	PASS
GPRS850	128	NV	-20	-2.13	-0.002584	±2.5	PASS
GPRS850	128	NV	-10	-0.32	-0.000388	±2.5	PASS
GPRS850	128	NV	0	0.03	0.000036	±2.5	PASS
GPRS850	128	NV	10	-4.07	-0.004938	±2.5	PASS
GPRS850	128	NV	20	-2.81	-0.003409	±2.5	PASS
GPRS850	128	NV	30	-0.84	-0.001019	±2.5	PASS
GPRS850	128	NV	40	-7.01	-0.008505	±2.5	PASS
GPRS850	128	NV	50	-4.07	-0.004938	±2.5	PASS
GPRS850	190	NV	-30	0.71	0.000849	±2.5	PASS
GPRS850	190	NV	-20	0.19	0.000227	±2.5	PASS
GPRS850	190	NV	-10	-2.03	-0.002426	±2.5	PASS

GPRS850	190	NV	0	-2.26	-0.002701	±2.5	PASS
GPRS850	190	NV	10	-2.58	-0.003084	±2.5	PASS
GPRS850	190	NV	20	1.26	0.001506	±2.5	PASS
GPRS850	190	NV	30	-1.19	-0.001422	±2.5	PASS
GPRS850	190	NV	40	-2.65	-0.003168	±2.5	PASS
GPRS850	190	NV	50	1.71	0.002044	±2.5	PASS
GPRS850	251	NV	-30	-3.97	-0.004677	±2.5	PASS
GPRS850	251	NV	-20	-5.29	-0.006232	±2.5	PASS
GPRS850	251	NV	-10	-4.81	-0.005667	±2.5	PASS
GPRS850	251	NV	0	-3.68	-0.004336	±2.5	PASS
GPRS850	251	NV	10	-3.68	-0.004336	±2.5	PASS
GPRS850	251	NV	20	-6.26	-0.007375	±2.5	PASS
GPRS850	251	NV	30	-3.29	-0.003876	±2.5	PASS
GPRS850	251	NV	40	-3.65	-0.004300	±2.5	PASS
GPRS850	251	NV	50	-2.71	-0.003193	±2.5	PASS
GSM1900	512	NV	-30	-4.20	-0.002270	±2.5	PASS
GSM1900	512	NV	-20	-9.59	-0.005183	±2.5	PASS
GSM1900	512	NV	-10	-6.55	-0.003540	±2.5	PASS
GSM1900	512	NV	0	-2.71	-0.001465	±2.5	PASS
GSM1900	512	NV	10	-5.42	-0.002929	±2.5	PASS
GSM1900	512	NV	20	-3.23	-0.001746	±2.5	PASS
GSM1900	512	NV	30	3.94	0.002129	±2.5	PASS
GSM1900	512	NV	40	-3.65	-0.001973	±2.5	PASS
GSM1900	512	NV	50	-5.42	-0.002929	±2.5	PASS
GSM1900	661	NV	-30	-2.32	-0.001234	±2.5	PASS
GSM1900	661	NV	-20	-3.91	-0.002080	±2.5	PASS
GSM1900	661	NV	-10	-4.04	-0.002149	±2.5	PASS
GSM1900	661	NV	0	-3.42	-0.001819	±2.5	PASS
GSM1900	661	NV	10	-1.00	-0.000532	±2.5	PASS
GSM1900	661	NV	20	0.26	0.000138	±2.5	PASS
GSM1900	661	NV	30	0.36	0.000191	±2.5	PASS
GSM1900	661	NV	40	-7.85	-0.004176	±2.5	PASS
GSM1900	661	NV	50	-11.95	-0.006356	±2.5	PASS
GSM1900	810	NV	-30	0.74	0.000387	±2.5	PASS
GSM1900	810	NV	-20	-4.23	-0.002215	±2.5	PASS
GSM1900	810	NV	-10	0.58	0.000304	±2.5	PASS
GSM1900	810	NV	0	-7.78	-0.004074	±2.5	PASS
GSM1900	810	NV	10	-11.04	-0.005781	±2.5	PASS
GSM1900	810	NV	20	-3.75	-0.001964	±2.5	PASS
GSM1900	810	NV	30	-2.97	-0.001555	±2.5	PASS
GSM1900	810	NV	40	-6.88	-0.003602	±2.5	PASS
GSM1900	810	NV	50	-5.59	-0.002927	±2.5	PASS

GPRS1900	512	NV	-30	1.97	0.001065	±2.5	PASS
GPRS1900	512	NV	-20	4.62	0.002497	±2.5	PASS
GPRS1900	512	NV	-10	-0.16	-0.000086	±2.5	PASS
GPRS1900	512	NV	0	-7.94	-0.004291	±2.5	PASS
GPRS1900	512	NV	10	4.16	0.002248	±2.5	PASS
GPRS1900	512	NV	20	-1.94	-0.001049	±2.5	PASS
GPRS1900	512	NV	30	5.33	0.002881	±2.5	PASS
GPRS1900	512	NV	40	-3.45	-0.001865	±2.5	PASS
GPRS1900	512	NV	50	2.78	0.001503	±2.5	PASS
GPRS1900	661	NV	-30	-3.26	-0.001734	±2.5	PASS
GPRS1900	661	NV	-20	-4.62	-0.002457	±2.5	PASS
GPRS1900	661	NV	-10	7.65	0.004069	±2.5	PASS
GPRS1900	661	NV	0	5.55	0.002952	±2.5	PASS
GPRS1900	661	NV	10	4.16	0.002213	±2.5	PASS
GPRS1900	661	NV	20	0.19	0.000101	±2.5	PASS
GPRS1900	661	NV	30	0.90	0.000479	±2.5	PASS
GPRS1900	661	NV	40	-1.45	-0.000771	±2.5	PASS
GPRS1900	661	NV	50	1.03	0.000548	±2.5	PASS
GPRS1900	810	NV	-30	-6.97	-0.003650	±2.5	PASS
GPRS1900	810	NV	-20	0.94	0.000492	±2.5	PASS
GPRS1900	810	NV	-10	2.84	0.001487	±2.5	PASS
GPRS1900	810	NV	0	-3.94	-0.002063	±2.5	PASS
GPRS1900	810	NV	10	4.52	0.002367	±2.5	PASS
GPRS1900	810	NV	20	-5.42	-0.002838	±2.5	PASS
GPRS1900	810	NV	30	2.94	0.001539	±2.5	PASS
GPRS1900	810	NV	40	2.91	0.001524	±2.5	PASS
GPRS1900	810	NV	50	5.59	0.002927	±2.5	PASS

Appendix G: ERP and EIRP

Test Result

Band	Mode	Conducted Power (dBm)	Antenna Gain (dBi)	ERP		Limit (W)	Verdict
				(dBm)	(W)		
GSM850	GSM	34.19	-0.70	31.34	1.3614	7	PASS
	GPRS	34.17	-0.70	31.32	1.3552	7	PASS

Band	Mode	Conducted Power (dBm)	Antenna Gain (dBi)	EIRP		Limit (W)	Verdict
				(dBm)	(W)		
GSM1900	GSM	30.26	0.60	30.86	1.2190	2	PASS
	GPRS	30.24	0.60	30.84	1.2134	2	PASS

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