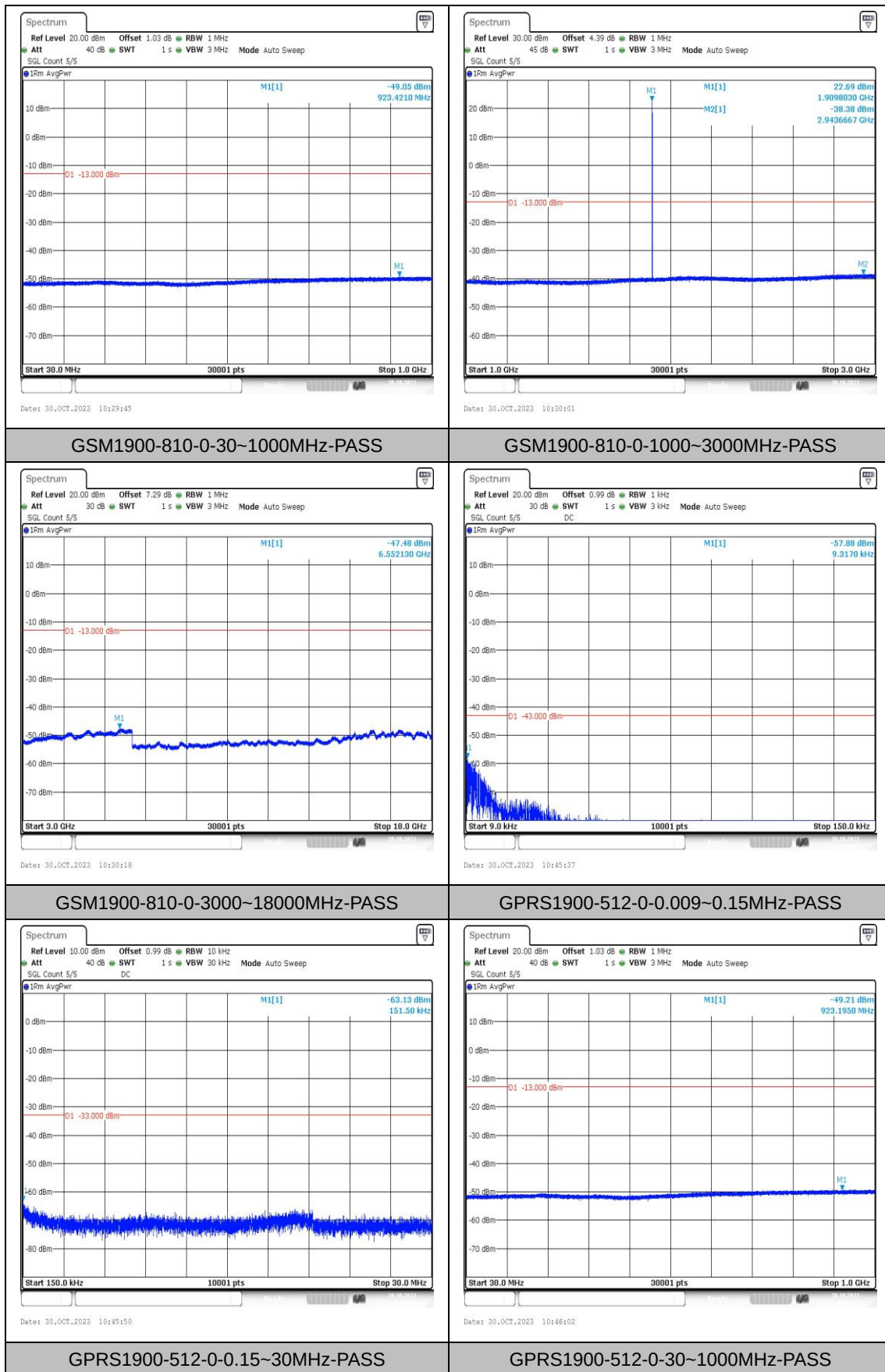
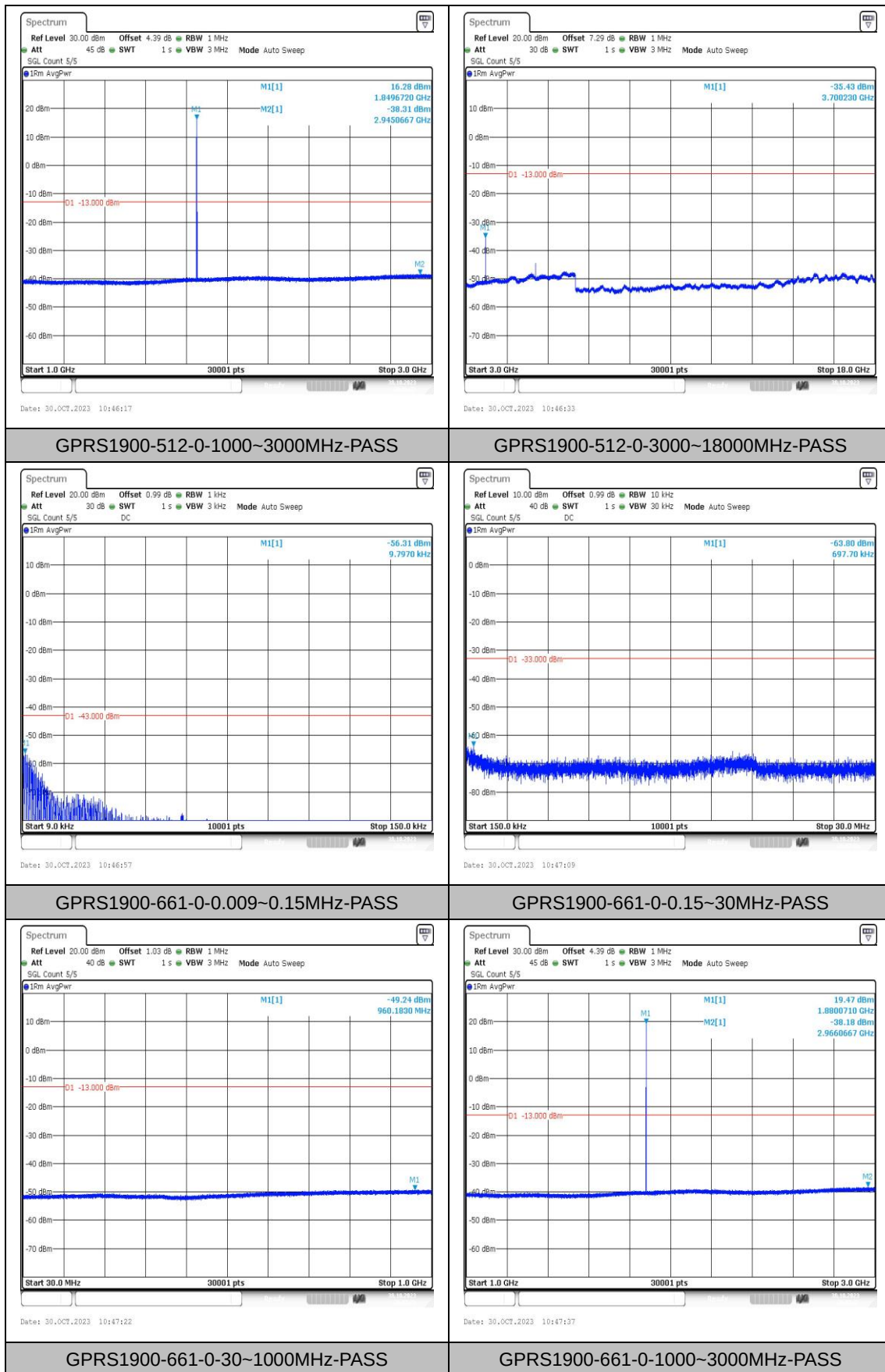
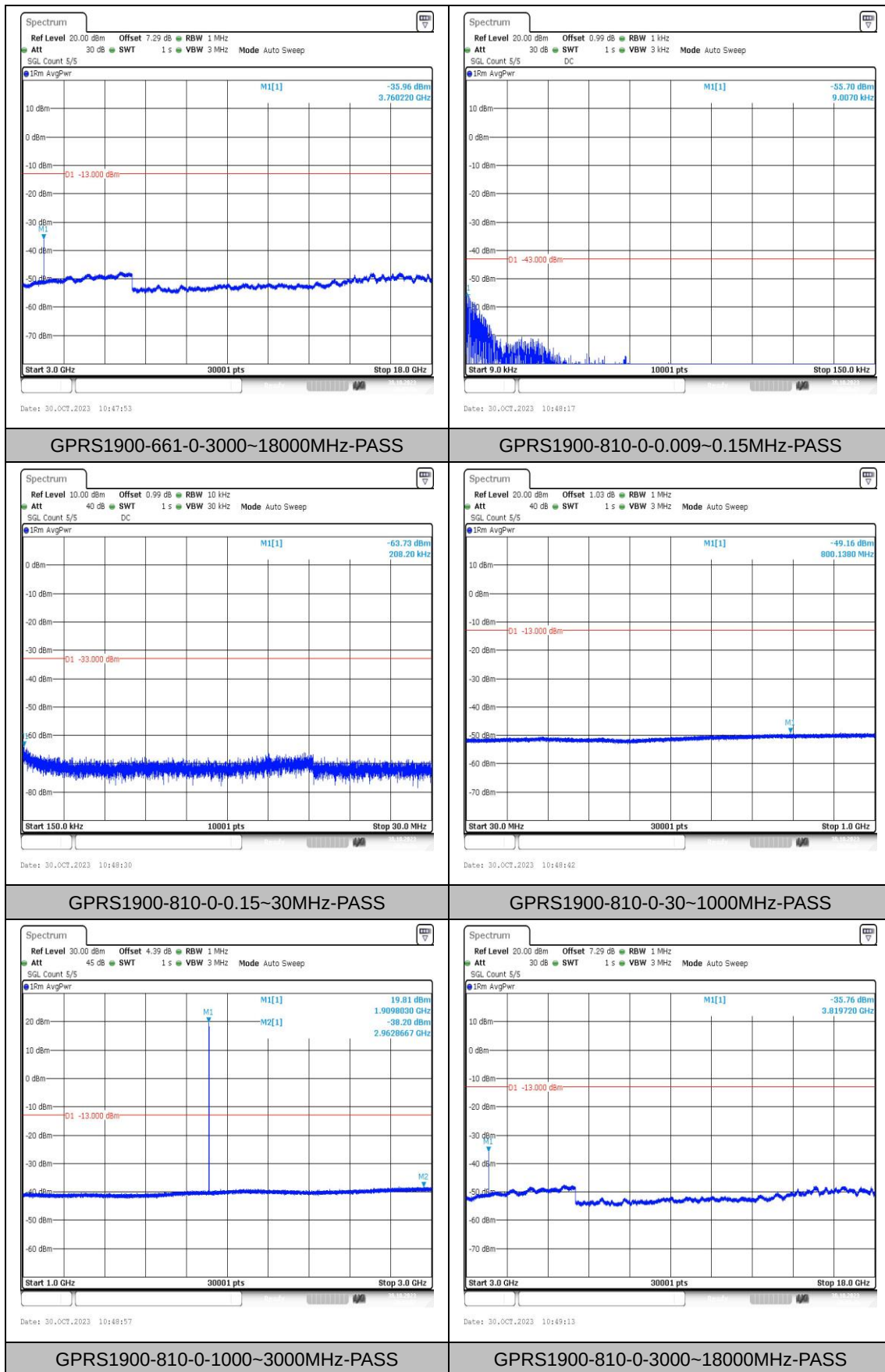
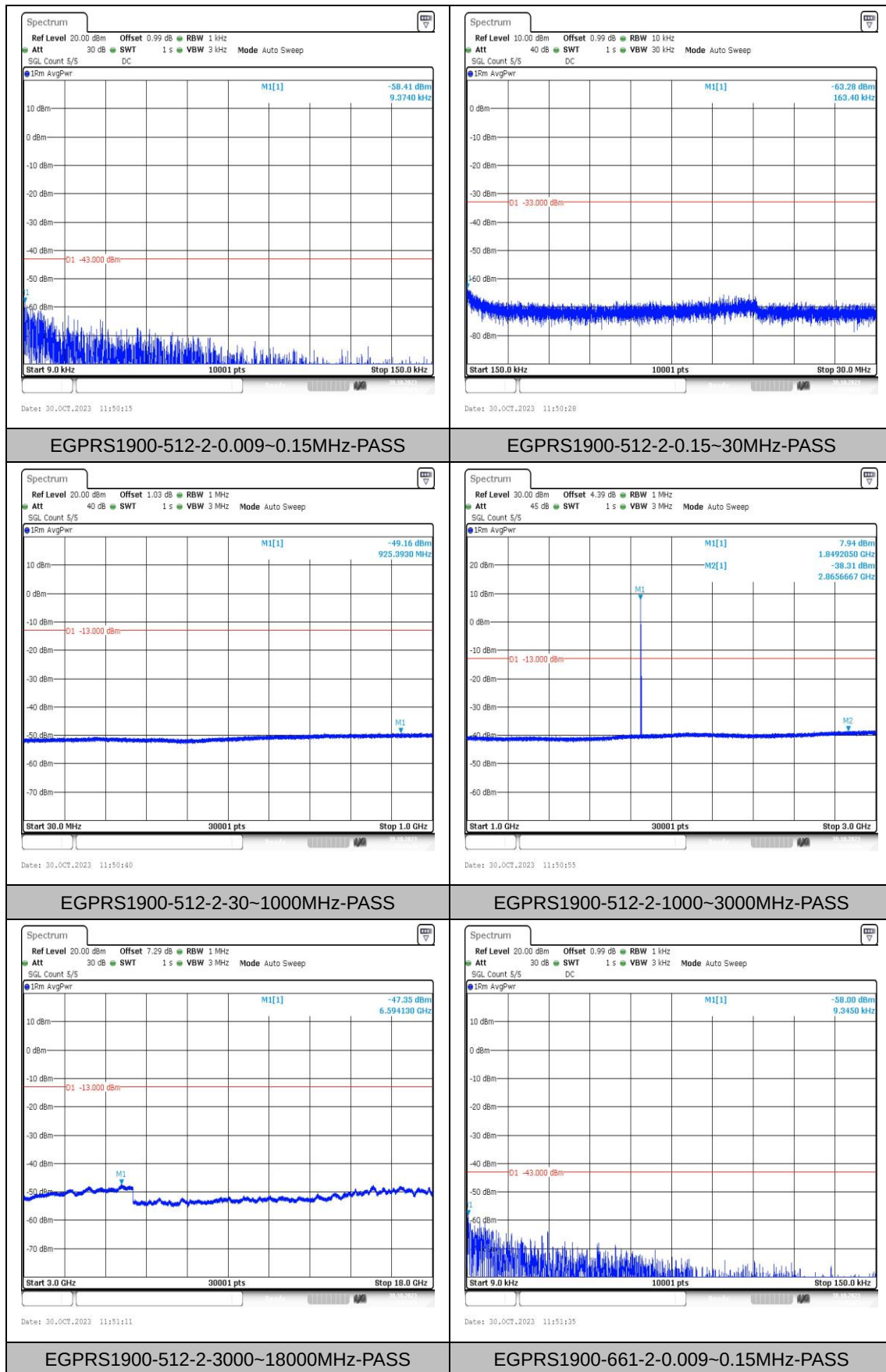
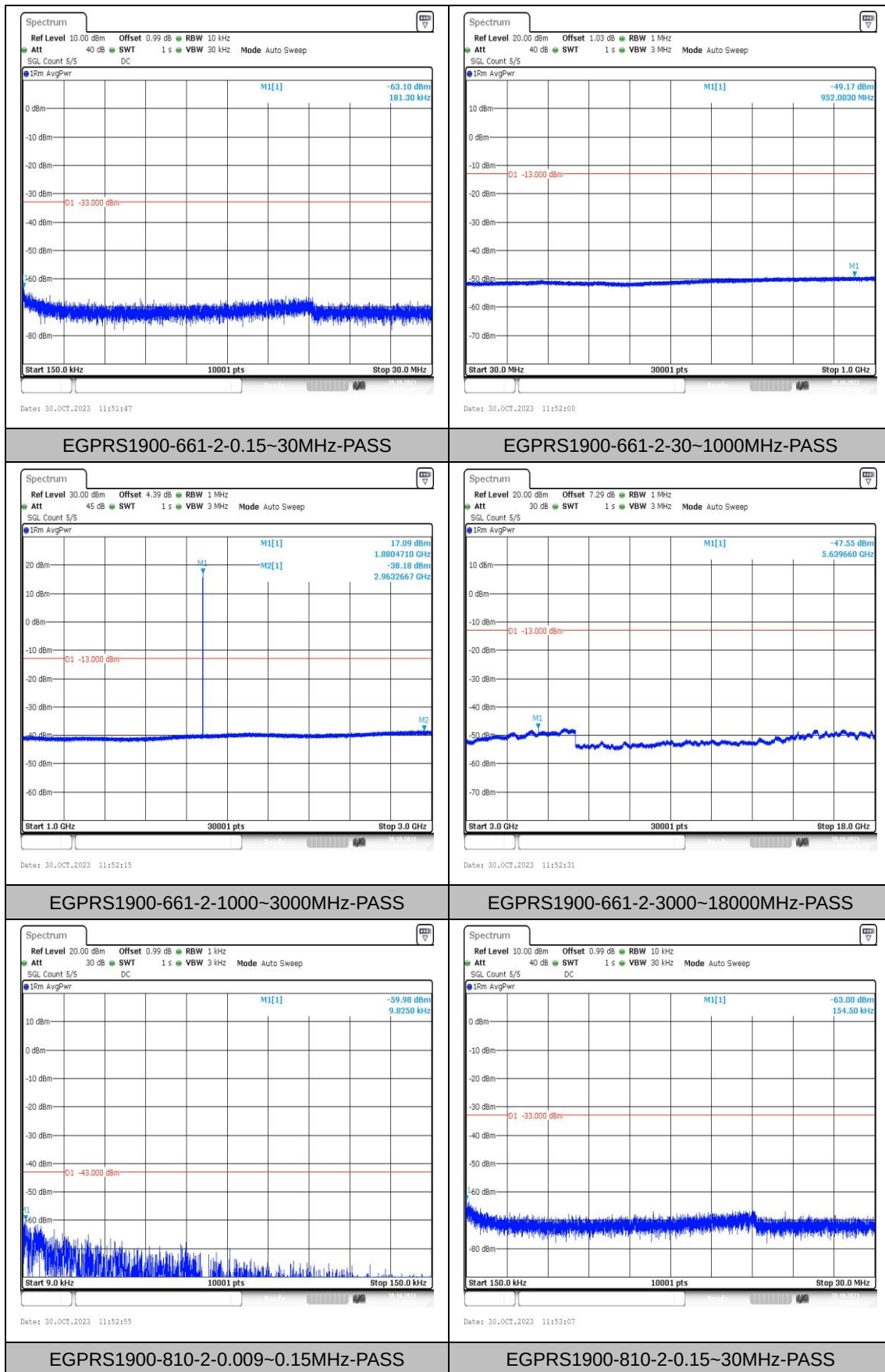


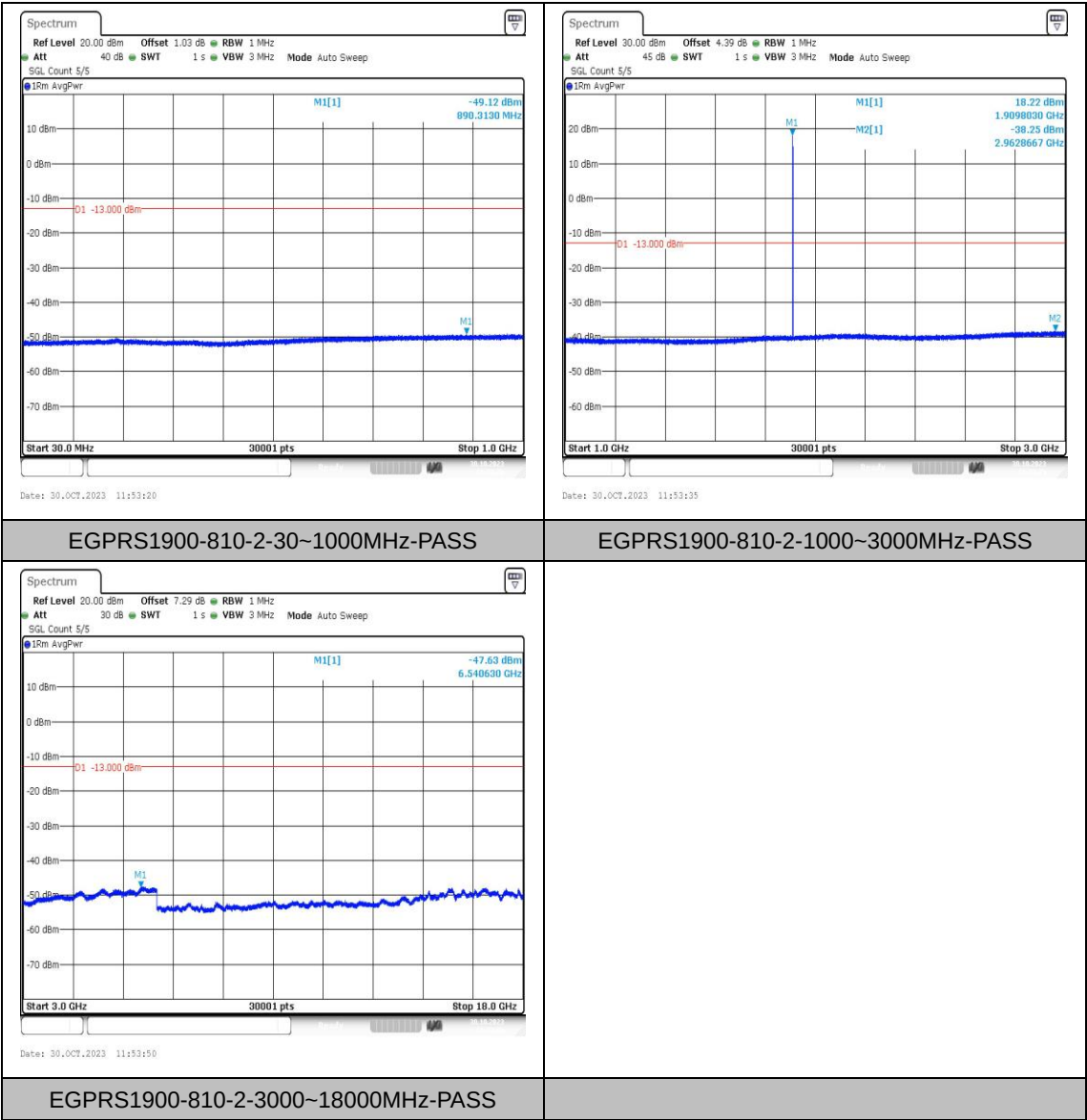












Appendix F: Frequency Stability

Test Result

Voltage							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	VN	NT	8.62	0.010459	±2.5	PASS
GSM850	128	VL	NT	8.85	0.010738	±2.5	PASS
GSM850	128	VH	NT	9.40	0.011405	±2.5	PASS
GSM850	190	VN	NT	10.82	0.012933	±2.5	PASS
GSM850	190	VL	NT	6.97	0.008331	±2.5	PASS
GSM850	190	VH	NT	12.53	0.014977	±2.5	PASS
GSM850	251	VN	NT	9.85	0.011605	±2.5	PASS
GSM850	251	VL	NT	7.91	0.009319	±2.5	PASS
GSM850	251	VH	NT	12.04	0.014185	±2.5	PASS
GPRS850	128	VN	NT	8.81	0.010689	±2.5	PASS
GPRS850	128	VL	NT	6.97	0.008457	±2.5	PASS
GPRS850	128	VH	NT	9.01	0.010932	±2.5	PASS
GPRS850	190	VN	NT	7.91	0.009455	±2.5	PASS
GPRS850	190	VL	NT	10.20	0.012192	±2.5	PASS
GPRS850	190	VH	NT	12.01	0.014356	±2.5	PASS
GPRS850	251	VN	NT	10.17	0.011982	±2.5	PASS
GPRS850	251	VL	NT	6.13	0.007222	±2.5	PASS
GPRS850	251	VH	NT	6.62	0.007799	±2.5	PASS
EGPRS850	128	VN	NT	6.59	0.007996	±2.5	PASS
EGPRS850	128	VL	NT	5.10	0.006188	±2.5	PASS
EGPRS850	128	VH	NT	4.16	0.005047	±2.5	PASS
EGPRS850	190	VN	NT	6.97	0.008331	±2.5	PASS
EGPRS850	190	VL	NT	9.91	0.011846	±2.5	PASS
EGPRS850	190	VH	NT	7.59	0.009072	±2.5	PASS
EGPRS850	251	VN	NT	5.04	0.005938	±2.5	PASS
EGPRS850	251	VL	NT	10.56	0.012441	±2.5	PASS
EGPRS850	251	VH	NT	9.04	0.010650	±2.5	PASS
GSM1900	512	VN	NT	10.23	0.005529	±2.5	PASS
GSM1900	512	VL	NT	14.24	0.007696	±2.5	PASS
GSM1900	512	VH	NT	17.14	0.009264	±2.5	PASS
GSM1900	661	VN	NT	12.14	0.006457	±2.5	PASS
GSM1900	661	VL	NT	13.66	0.007266	±2.5	PASS
GSM1900	661	VH	NT	13.37	0.007112	±2.5	PASS
GSM1900	810	VN	NT	18.53	0.009703	±2.5	PASS

GSM1900	810	VL	NT	15.59	0.008163	±2.5	PASS
GSM1900	810	VH	NT	18.98	0.009938	±2.5	PASS
GPRS1900	512	VN	NT	18.76	0.010139	±2.5	PASS
GPRS1900	512	VL	NT	22.79	0.012318	±2.5	PASS
GPRS1900	512	VH	NT	21.53	0.011637	±2.5	PASS
GPRS1900	661	VN	NT	16.27	0.008654	±2.5	PASS
GPRS1900	661	VL	NT	18.82	0.010011	±2.5	PASS
GPRS1900	661	VH	NT	20.34	0.010819	±2.5	PASS
GPRS1900	810	VN	NT	17.14	0.008975	±2.5	PASS
GPRS1900	810	VL	NT	20.79	0.010886	±2.5	PASS
GPRS1900	810	VH	NT	18.02	0.009436	±2.5	PASS
EGPRS1900	512	VN	NT	14.33	0.007745	±2.5	PASS
EGPRS1900	512	VL	NT	23.44	0.012669	±2.5	PASS
EGPRS1900	512	VH	NT	11.24	0.006075	±2.5	PASS
EGPRS1900	661	VN	NT	11.24	0.005979	±2.5	PASS
EGPRS1900	661	VL	NT	15.82	0.008415	±2.5	PASS
EGPRS1900	661	VH	NT	15.63	0.008314	±2.5	PASS
EGPRS1900	810	VN	NT	22.50	0.011781	±2.5	PASS
EGPRS1900	810	VL	NT	25.34	0.013268	±2.5	PASS
EGPRS1900	810	VH	NT	22.60	0.011834	±2.5	PASS

Temperature							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	NV	-30	7.43	0.009015	±2.5	PASS
GSM850	128	NV	-20	7.33	0.008893	±2.5	PASS
GSM850	128	NV	-10	8.43	0.010228	±2.5	PASS
GSM850	128	NV	0	7.17	0.008699	±2.5	PASS
GSM850	128	NV	10	5.81	0.007049	±2.5	PASS
GSM850	128	NV	20	6.01	0.007292	±2.5	PASS
GSM850	128	NV	30	4.58	0.005557	±2.5	PASS
GSM850	128	NV	40	7.46	0.009051	±2.5	PASS
GSM850	128	NV	50	8.62	0.010459	±2.5	PASS
GSM850	190	NV	-30	12.33	0.014738	±2.5	PASS
GSM850	190	NV	-20	7.59	0.009072	±2.5	PASS
GSM850	190	NV	-10	6.30	0.007530	±2.5	PASS
GSM850	190	NV	0	5.91	0.007064	±2.5	PASS
GSM850	190	NV	10	8.75	0.010459	±2.5	PASS
GSM850	190	NV	20	10.30	0.012312	±2.5	PASS
GSM850	190	NV	30	7.14	0.008535	±2.5	PASS

GSM850	190	NV	40	6.75	0.008068	±2.5	PASS
GSM850	190	NV	50	8.14	0.009730	±2.5	PASS
GSM850	251	NV	-30	8.27	0.009743	±2.5	PASS
GSM850	251	NV	-20	6.07	0.007151	±2.5	PASS
GSM850	251	NV	-10	6.78	0.007988	±2.5	PASS
GSM850	251	NV	0	5.33	0.006279	±2.5	PASS
GSM850	251	NV	10	5.29	0.006232	±2.5	PASS
GSM850	251	NV	20	6.33	0.007458	±2.5	PASS
GSM850	251	NV	30	7.88	0.009284	±2.5	PASS
GSM850	251	NV	40	6.94	0.008176	±2.5	PASS
GSM850	251	NV	50	7.17	0.008447	±2.5	PASS
GPRS850	128	NV	-30	7.88	0.009561	±2.5	PASS
GPRS850	128	NV	-20	8.33	0.010107	±2.5	PASS
GPRS850	128	NV	-10	8.33	0.010107	±2.5	PASS
GPRS850	128	NV	0	10.69	0.012970	±2.5	PASS
GPRS850	128	NV	10	9.98	0.012109	±2.5	PASS
GPRS850	128	NV	20	11.17	0.013553	±2.5	PASS
GPRS850	128	NV	30	8.98	0.010895	±2.5	PASS
GPRS850	128	NV	40	1.36	0.001650	±2.5	PASS
GPRS850	128	NV	50	15.05	0.018260	±2.5	PASS
GPRS850	190	NV	-30	10.11	0.012085	±2.5	PASS
GPRS850	190	NV	-20	10.85	0.012969	±2.5	PASS
GPRS850	190	NV	-10	7.75	0.009264	±2.5	PASS
GPRS850	190	NV	0	7.10	0.008487	±2.5	PASS
GPRS850	190	NV	10	7.26	0.008678	±2.5	PASS
GPRS850	190	NV	20	10.23	0.012228	±2.5	PASS
GPRS850	190	NV	30	9.78	0.011690	±2.5	PASS
GPRS850	190	NV	40	8.72	0.010423	±2.5	PASS
GPRS850	190	NV	50	8.14	0.009730	±2.5	PASS
GPRS850	251	NV	-30	5.26	0.006197	±2.5	PASS
GPRS850	251	NV	-20	6.26	0.007375	±2.5	PASS
GPRS850	251	NV	-10	11.66	0.013737	±2.5	PASS
GPRS850	251	NV	0	10.30	0.012135	±2.5	PASS
GPRS850	251	NV	10	11.88	0.013996	±2.5	PASS
GPRS850	251	NV	20	10.27	0.012099	±2.5	PASS
GPRS850	251	NV	30	12.69	0.014951	±2.5	PASS
GPRS850	251	NV	40	12.72	0.014986	±2.5	PASS
GPRS850	251	NV	50	12.91	0.015210	±2.5	PASS
EGPRS850	128	NV	-30	6.75	0.008190	±2.5	PASS
EGPRS850	128	NV	-20	4.94	0.005994	±2.5	PASS

EGPRS850	128	NV	-10	10.20	0.012376	±2.5	PASS
EGPRS850	128	NV	0	7.94	0.009634	±2.5	PASS
EGPRS850	128	NV	10	9.10	0.011041	±2.5	PASS
EGPRS850	128	NV	20	10.59	0.012849	±2.5	PASS
EGPRS850	128	NV	30	8.65	0.010495	±2.5	PASS
EGPRS850	128	NV	40	10.40	0.012618	±2.5	PASS
EGPRS850	128	NV	50	8.17	0.009913	±2.5	PASS
EGPRS850	190	NV	-30	9.52	0.011379	±2.5	PASS
EGPRS850	190	NV	-20	5.78	0.006909	±2.5	PASS
EGPRS850	190	NV	-10	5.00	0.005977	±2.5	PASS
EGPRS850	190	NV	0	7.33	0.008762	±2.5	PASS
EGPRS850	190	NV	10	3.97	0.004745	±2.5	PASS
EGPRS850	190	NV	20	8.78	0.010495	±2.5	PASS
EGPRS850	190	NV	30	10.17	0.012156	±2.5	PASS
EGPRS850	190	NV	40	3.00	0.003586	±2.5	PASS
EGPRS850	190	NV	50	11.24	0.013435	±2.5	PASS
EGPRS850	251	NV	-30	7.78	0.009166	±2.5	PASS
EGPRS850	251	NV	-20	4.23	0.004984	±2.5	PASS
EGPRS850	251	NV	-10	10.36	0.012205	±2.5	PASS
EGPRS850	251	NV	0	10.27	0.012099	±2.5	PASS
EGPRS850	251	NV	10	7.91	0.009319	±2.5	PASS
EGPRS850	251	NV	20	9.78	0.011522	±2.5	PASS
EGPRS850	251	NV	30	9.33	0.010992	±2.5	PASS
EGPRS850	251	NV	40	9.20	0.010839	±2.5	PASS
EGPRS850	251	NV	50	13.04	0.015363	±2.5	PASS
GSM1900	512	NV	-30	16.37	0.008848	±2.5	PASS
GSM1900	512	NV	-20	9.65	0.005216	±2.5	PASS
GSM1900	512	NV	-10	12.11	0.006545	±2.5	PASS
GSM1900	512	NV	0	4.75	0.002567	±2.5	PASS
GSM1900	512	NV	10	12.14	0.006561	±2.5	PASS
GSM1900	512	NV	20	9.98	0.005394	±2.5	PASS
GSM1900	512	NV	30	4.36	0.002357	±2.5	PASS
GSM1900	512	NV	40	1.71	0.000924	±2.5	PASS
GSM1900	512	NV	50	12.17	0.006578	±2.5	PASS
GSM1900	661	NV	-30	15.59	0.008293	±2.5	PASS
GSM1900	661	NV	-20	10.36	0.005511	±2.5	PASS
GSM1900	661	NV	-10	12.24	0.006511	±2.5	PASS
GSM1900	661	NV	0	10.30	0.005479	±2.5	PASS
GSM1900	661	NV	10	8.46	0.004500	±2.5	PASS
GSM1900	661	NV	20	5.39	0.002867	±2.5	PASS

GSM1900	661	NV	30	4.75	0.002527	±2.5	PASS
GSM1900	661	NV	40	10.27	0.005463	±2.5	PASS
GSM1900	661	NV	50	6.88	0.003660	±2.5	PASS
GSM1900	810	NV	-30	19.53	0.010226	±2.5	PASS
GSM1900	810	NV	-20	16.37	0.008572	±2.5	PASS
GSM1900	810	NV	-10	14.40	0.007540	±2.5	PASS
GSM1900	810	NV	0	13.82	0.007236	±2.5	PASS
GSM1900	810	NV	10	18.50	0.009687	±2.5	PASS
GSM1900	810	NV	20	15.95	0.008352	±2.5	PASS
GSM1900	810	NV	30	13.59	0.007116	±2.5	PASS
GSM1900	810	NV	40	10.17	0.005325	±2.5	PASS
GSM1900	810	NV	50	18.05	0.009451	±2.5	PASS
GPRS1900	512	NV	-30	17.43	0.009421	±2.5	PASS
GPRS1900	512	NV	-20	18.37	0.009929	±2.5	PASS
GPRS1900	512	NV	-10	17.24	0.009318	±2.5	PASS
GPRS1900	512	NV	0	21.18	0.011447	±2.5	PASS
GPRS1900	512	NV	10	24.34	0.013155	±2.5	PASS
GPRS1900	512	NV	20	25.47	0.013766	±2.5	PASS
GPRS1900	512	NV	30	17.05	0.009215	±2.5	PASS
GPRS1900	512	NV	40	17.21	0.009302	±2.5	PASS
GPRS1900	512	NV	50	29.64	0.016020	±2.5	PASS
GPRS1900	661	NV	-30	23.44	0.012468	±2.5	PASS
GPRS1900	661	NV	-20	18.66	0.009926	±2.5	PASS
GPRS1900	661	NV	-10	14.30	0.007606	±2.5	PASS
GPRS1900	661	NV	0	13.40	0.007128	±2.5	PASS
GPRS1900	661	NV	10	14.43	0.007676	±2.5	PASS
GPRS1900	661	NV	20	18.69	0.009941	±2.5	PASS
GPRS1900	661	NV	30	16.59	0.008824	±2.5	PASS
GPRS1900	661	NV	40	17.63	0.009378	±2.5	PASS
GPRS1900	661	NV	50	13.30	0.007074	±2.5	PASS
GPRS1900	810	NV	-30	25.57	0.013389	±2.5	PASS
GPRS1900	810	NV	-20	21.47	0.011242	±2.5	PASS
GPRS1900	810	NV	-10	12.07	0.006320	±2.5	PASS
GPRS1900	810	NV	0	12.85	0.006728	±2.5	PASS
GPRS1900	810	NV	10	20.11	0.010530	±2.5	PASS
GPRS1900	810	NV	20	15.59	0.008163	±2.5	PASS
GPRS1900	810	NV	30	12.66	0.006629	±2.5	PASS
GPRS1900	810	NV	40	20.05	0.010498	±2.5	PASS
GPRS1900	810	NV	50	20.57	0.010771	±2.5	PASS
EGPRS1900	512	NV	-30	14.27	0.007713	±2.5	PASS

EGPRS1900	512	NV	-20	12.37	0.006686	±2.5	PASS
EGPRS1900	512	NV	-10	7.36	0.003978	±2.5	PASS
EGPRS1900	512	NV	0	5.29	0.002859	±2.5	PASS
EGPRS1900	512	NV	10	8.04	0.004345	±2.5	PASS
EGPRS1900	512	NV	20	11.59	0.006264	±2.5	PASS
EGPRS1900	512	NV	30	5.88	0.003178	±2.5	PASS
EGPRS1900	512	NV	40	11.20	0.006053	±2.5	PASS
EGPRS1900	512	NV	50	11.85	0.006405	±2.5	PASS
EGPRS1900	661	NV	-30	13.30	0.007074	±2.5	PASS
EGPRS1900	661	NV	-20	12.56	0.006681	±2.5	PASS
EGPRS1900	661	NV	-10	10.82	0.005755	±2.5	PASS
EGPRS1900	661	NV	0	12.91	0.006867	±2.5	PASS
EGPRS1900	661	NV	10	12.27	0.006527	±2.5	PASS
EGPRS1900	661	NV	20	10.78	0.005734	±2.5	PASS
EGPRS1900	661	NV	30	13.43	0.007144	±2.5	PASS
EGPRS1900	661	NV	40	6.20	0.003298	±2.5	PASS
EGPRS1900	661	NV	50	10.65	0.005665	±2.5	PASS
EGPRS1900	810	NV	-30	23.96	0.012546	±2.5	PASS
EGPRS1900	810	NV	-20	23.37	0.012237	±2.5	PASS
EGPRS1900	810	NV	-10	14.56	0.007624	±2.5	PASS
EGPRS1900	810	NV	0	13.98	0.007320	±2.5	PASS
EGPRS1900	810	NV	10	16.18	0.008472	±2.5	PASS
EGPRS1900	810	NV	20	18.89	0.009891	±2.5	PASS
EGPRS1900	810	NV	30	15.27	0.007996	±2.5	PASS
EGPRS1900	810	NV	40	15.69	0.008216	±2.5	PASS
EGPRS1900	810	NV	50	18.66	0.009771	±2.5	PASS

Appendix G: Modulation Characteristics

Test Result

Band	Channel	Result	Verdict
GSM850	128	PASS	PASS
GSM850	190	PASS	PASS
GSM850	251	PASS	PASS
GPRS850	128	PASS	PASS
GPRS850	190	PASS	PASS
GPRS850	251	PASS	PASS
EGPRS850	128	PASS	PASS
EGPRS850	190	PASS	PASS
EGPRS850	251	PASS	PASS
GSM1900	512	PASS	PASS
GSM1900	661	PASS	PASS
GSM1900	810	PASS	PASS
GPRS1900	512	PASS	PASS
GPRS1900	661	PASS	PASS
GPRS1900	810	PASS	PASS
EGPRS1900	512	PASS	PASS
EGPRS1900	661	PASS	PASS
EGPRS1900	810	PASS	PASS

Test Graphs

