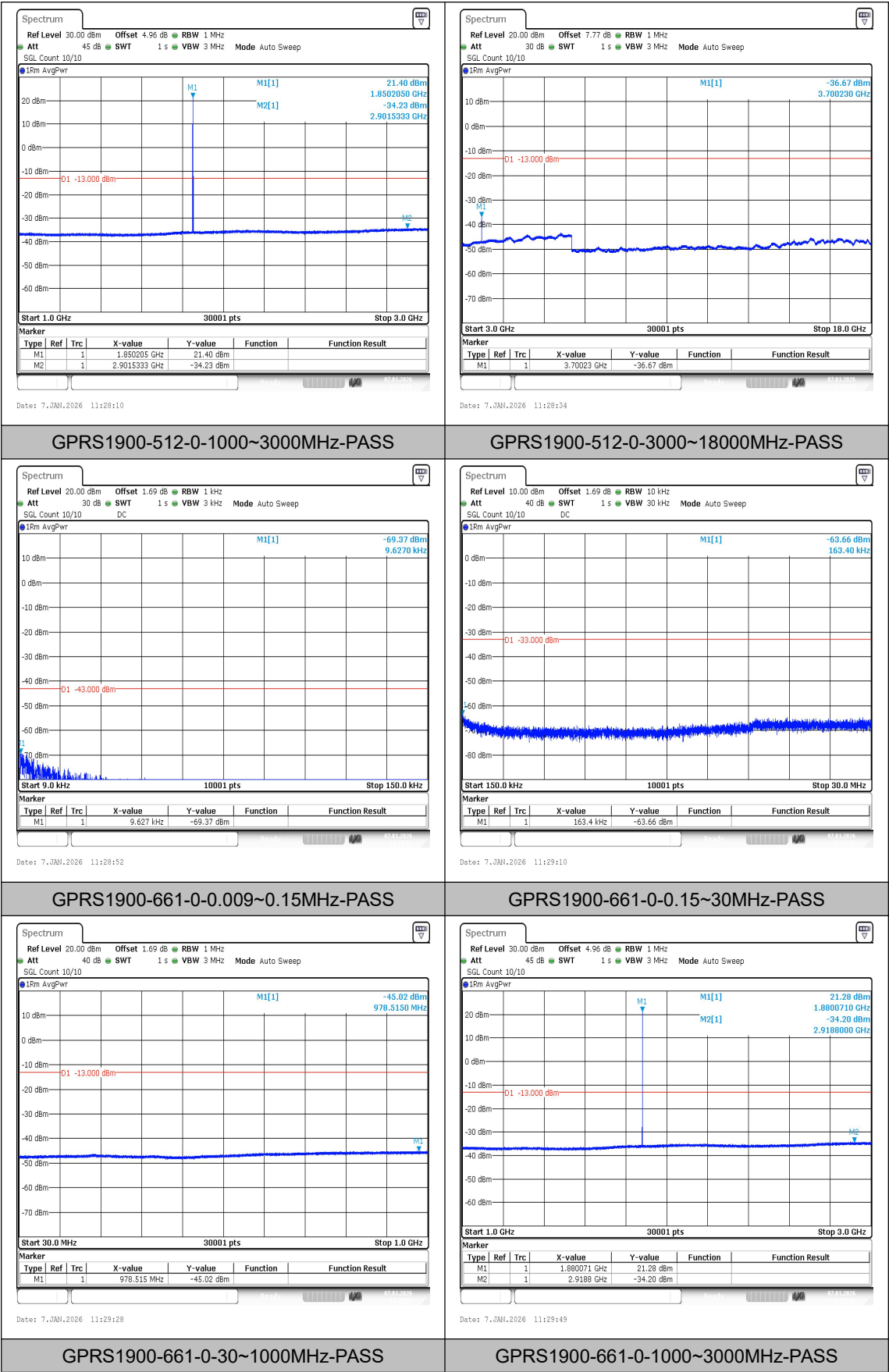
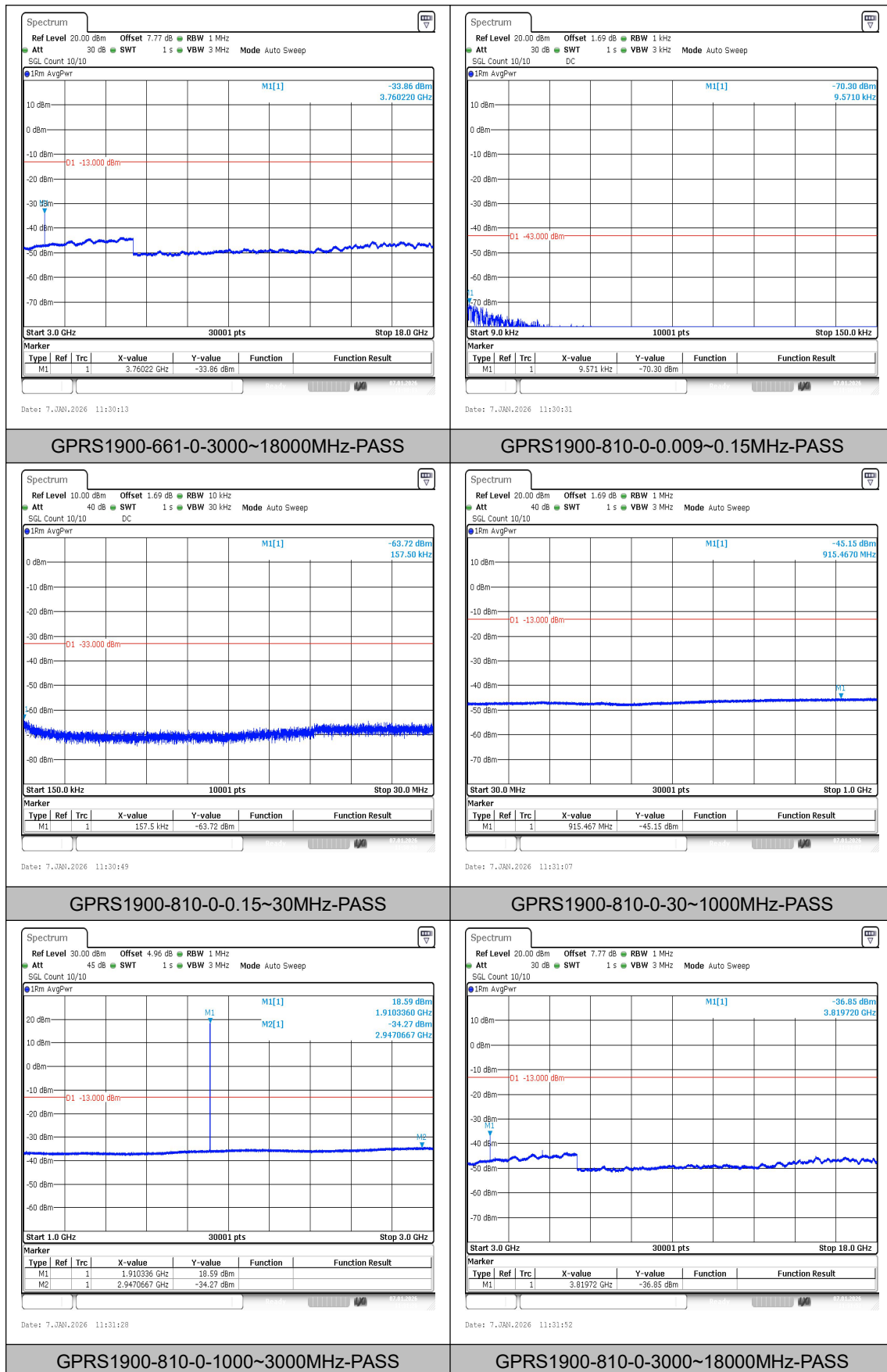
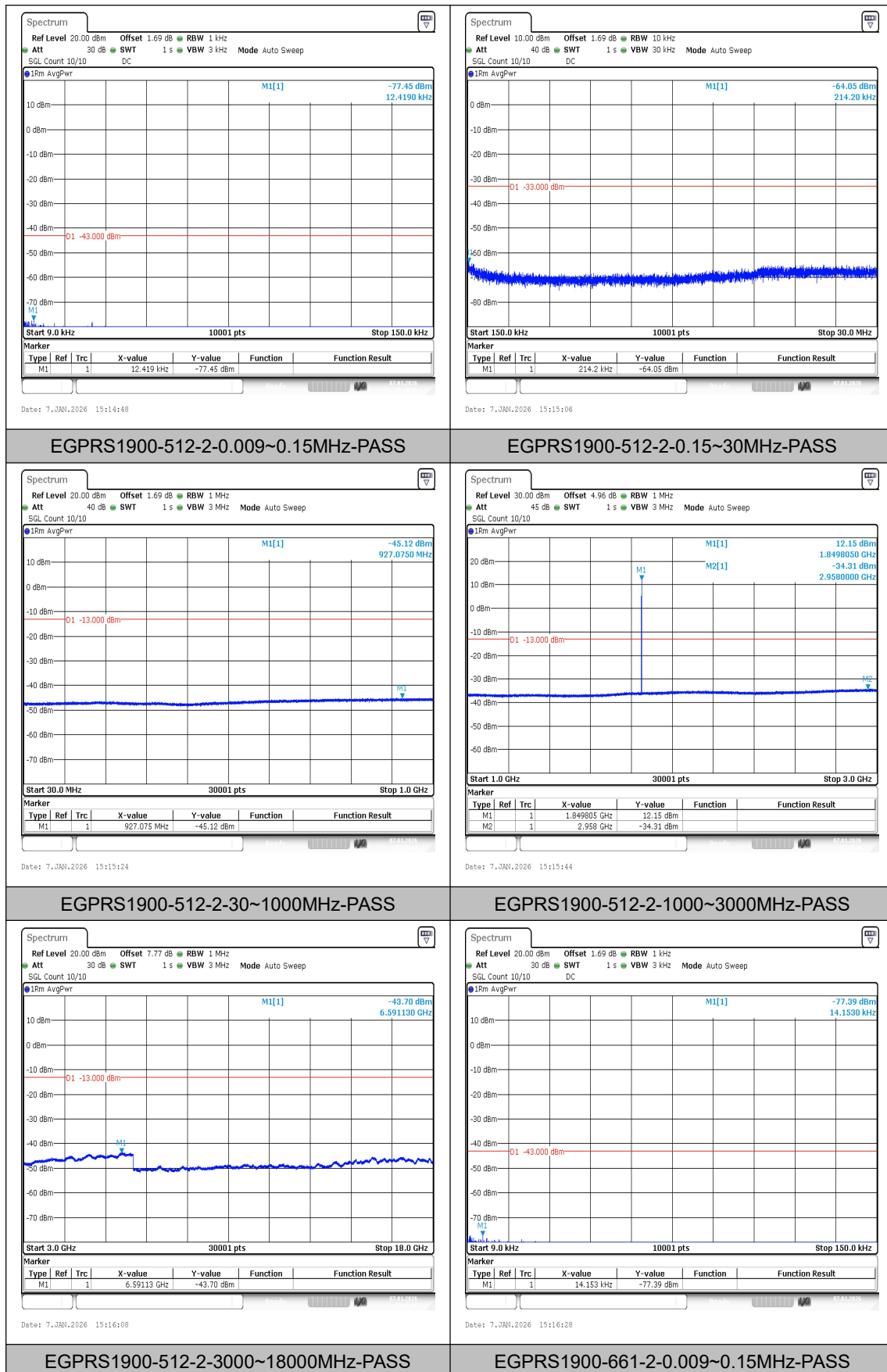
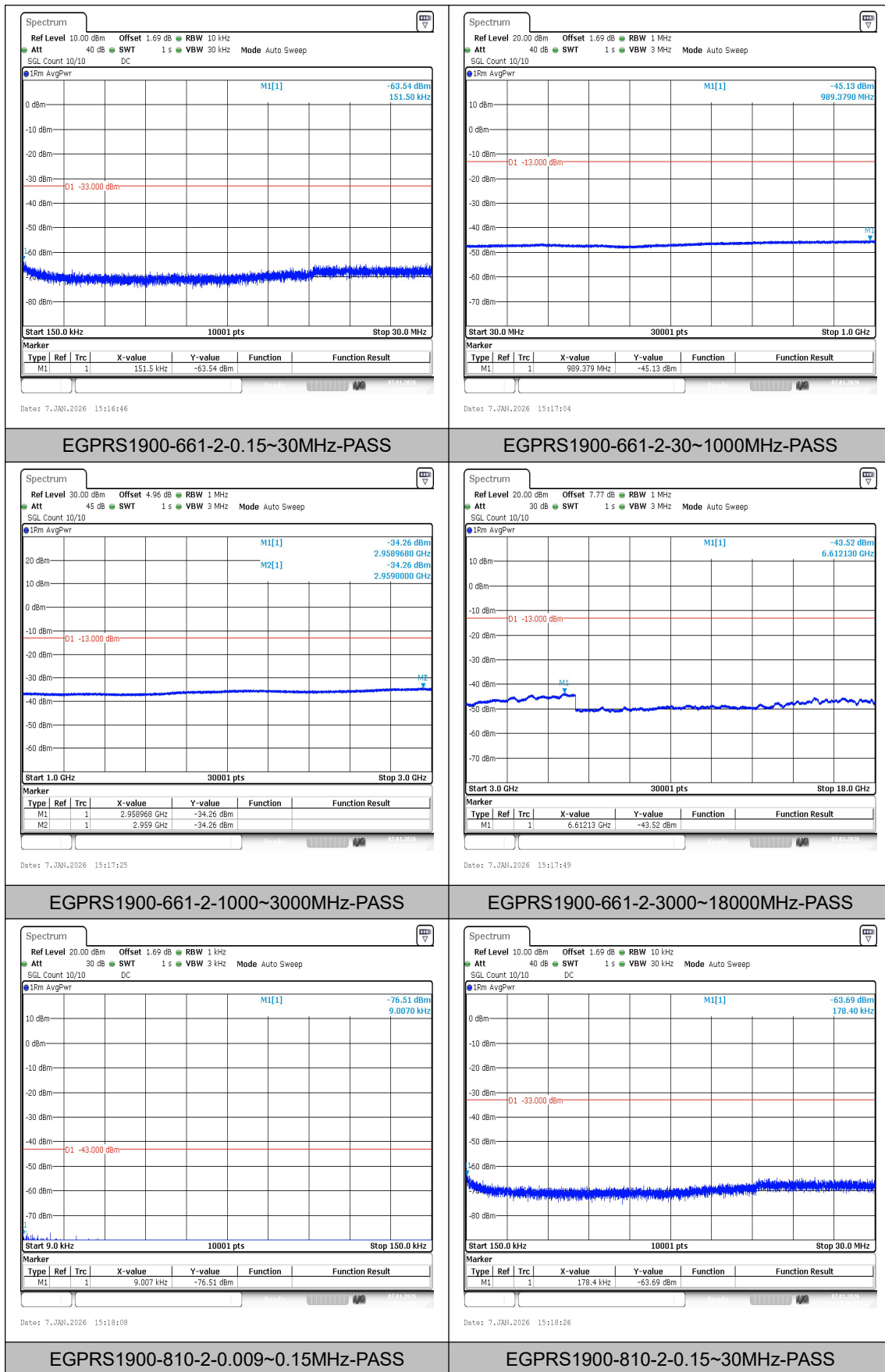
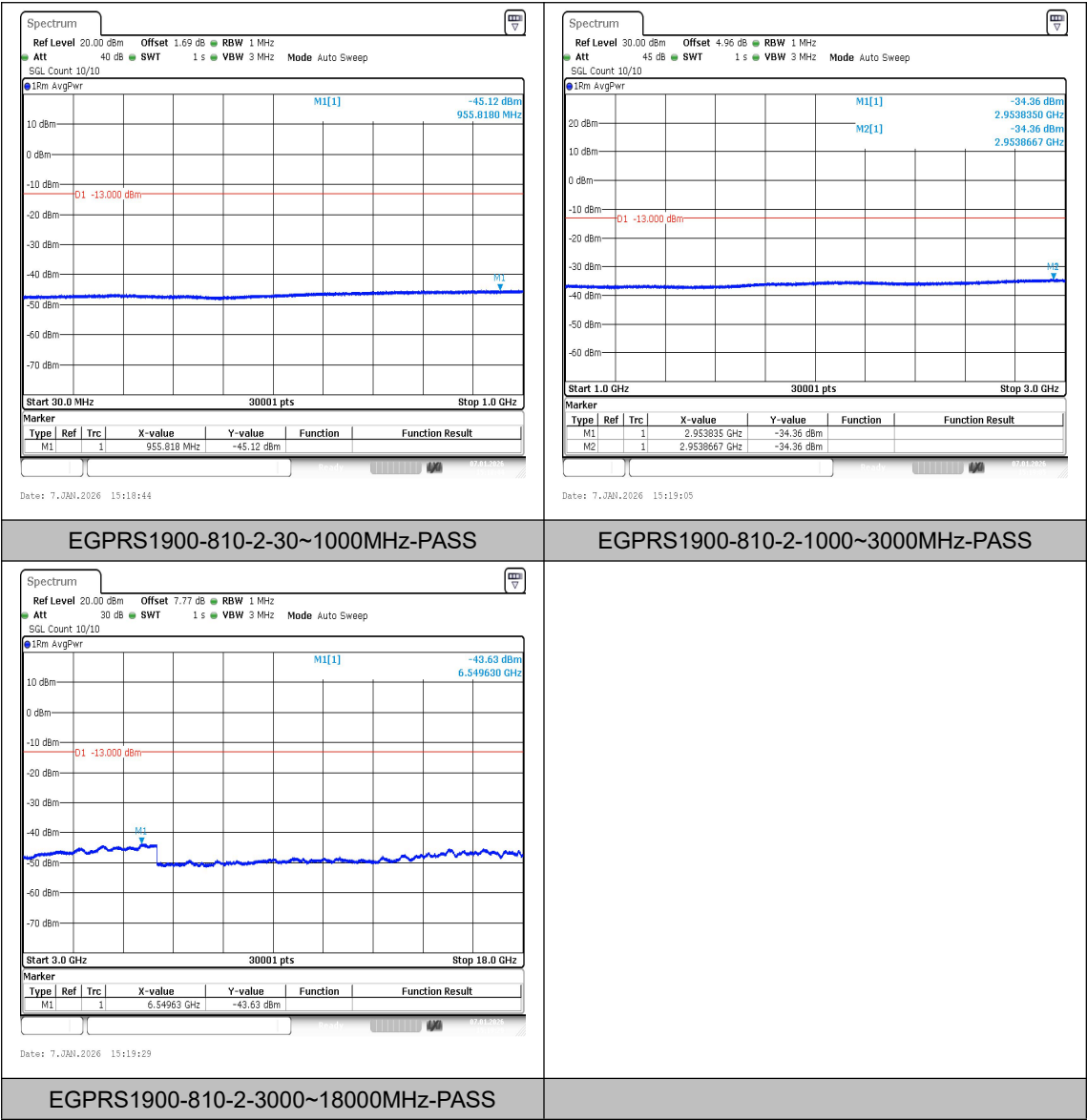












Appendix F: Frequency Stability

Test Result

Voltage							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	VN	NT	9.85	0.011951	±2.5	PASS
GSM850	128	VL	NT	10.36	0.012570	±2.5	PASS
GSM850	128	VH	NT	12.98	0.015749	±2.5	PASS
GSM850	190	VN	NT	10.20	0.012192	±2.5	PASS
GSM850	190	VL	NT	9.94	0.011881	±2.5	PASS
GSM850	190	VH	NT	11.24	0.013435	±2.5	PASS
GSM850	251	VN	NT	13.53	0.015940	±2.5	PASS
GSM850	251	VL	NT	10.46	0.012323	±2.5	PASS
GSM850	251	VH	NT	11.30	0.013313	±2.5	PASS
GPRS850	128	VN	NT	-4.71	-0.005715	±2.5	PASS
GPRS850	128	VL	NT	-0.58	-0.000704	±2.5	PASS
GPRS850	128	VH	NT	0.55	0.000667	±2.5	PASS
GPRS850	190	VN	NT	5.75	0.006873	±2.5	PASS
GPRS850	190	VL	NT	6.81	0.008140	±2.5	PASS
GPRS850	190	VH	NT	6.68	0.007985	±2.5	PASS
GPRS850	251	VN	NT	9.98	0.011758	±2.5	PASS
GPRS850	251	VL	NT	5.23	0.006162	±2.5	PASS
GPRS850	251	VH	NT	2.20	0.002592	±2.5	PASS
EGPRS850	128	VN	NT	0.00	0.000000	±2.5	PASS
EGPRS850	128	VL	NT	0.00	0.000000	±2.5	PASS
EGPRS850	128	VH	NT	0.00	0.000000	±2.5	PASS
EGPRS850	190	VN	NT	0.00	0.000000	±2.5	PASS
EGPRS850	190	VL	NT	0.00	0.000000	±2.5	PASS
EGPRS850	190	VH	NT	0.00	0.000000	±2.5	PASS
EGPRS850	251	VN	NT	0.00	0.000000	±2.5	PASS
EGPRS850	251	VL	NT	0.00	0.000000	±2.5	PASS
EGPRS850	251	VH	NT	0.00	0.000000	±2.5	PASS
GSM1900	512	VN	NT	33.00	0.017836	±2.5	PASS
GSM1900	512	VL	NT	28.09	0.015182	±2.5	PASS
GSM1900	512	VH	NT	29.80	0.016106	±2.5	PASS
GSM1900	661	VN	NT	24.92	0.013255	±2.5	PASS
GSM1900	661	VL	NT	22.70	0.012074	±2.5	PASS
GSM1900	661	VH	NT	23.83	0.012676	±2.5	PASS
GSM1900	810	VN	NT	26.09	0.013661	±2.5	PASS

GSM1900	810	VL	NT	30.06	0.015740	±2.5	PASS
GSM1900	810	VH	NT	21.89	0.011462	±2.5	PASS
GPRS1900	512	VN	NT	19.24	0.010399	±2.5	PASS
GPRS1900	512	VL	NT	20.34	0.010993	±2.5	PASS
GPRS1900	512	VH	NT	14.59	0.007886	±2.5	PASS
GPRS1900	661	VN	NT	31.32	0.016660	±2.5	PASS
GPRS1900	661	VL	NT	19.69	0.010473	±2.5	PASS
GPRS1900	661	VH	NT	29.74	0.015819	±2.5	PASS
GPRS1900	810	VN	NT	25.76	0.013488	±2.5	PASS
GPRS1900	810	VL	NT	27.31	0.014300	±2.5	PASS
GPRS1900	810	VH	NT	24.02	0.012577	±2.5	PASS
EGPRS1900	512	VN	NT	0.00	0.000000	±2.5	PASS
EGPRS1900	512	VL	NT	0.00	0.000000	±2.5	PASS
EGPRS1900	512	VH	NT	0.00	0.000000	±2.5	PASS
EGPRS1900	661	VN	NT	0.00	0.000000	±2.5	PASS
EGPRS1900	661	VL	NT	0.00	0.000000	±2.5	PASS
EGPRS1900	661	VH	NT	0.00	0.000000	±2.5	PASS
EGPRS1900	810	VN	NT	0.00	0.000000	±2.5	PASS
EGPRS1900	810	VL	NT	0.00	0.000000	±2.5	PASS
EGPRS1900	810	VH	NT	0.00	0.000000	±2.5	PASS

Temperature							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	NV	-30	9.33	0.011320	±2.5	PASS
GSM850	128	NV	-20	-2.23	-0.002706	±2.5	PASS
GSM850	128	NV	-10	-0.94	-0.001140	±2.5	PASS
GSM850	128	NV	0	0.94	0.001140	±2.5	PASS
GSM850	128	NV	10	1.32	0.001602	±2.5	PASS
GSM850	128	NV	20	0.94	0.001140	±2.5	PASS
GSM850	128	NV	30	0.61	0.000740	±2.5	PASS
GSM850	128	NV	40	5.52	0.006697	±2.5	PASS

GSM850	128	NV	50	1.07	0.001298	±2.5	PASS
GSM850	190	NV	-30	13.72	0.016400	±2.5	PASS
GSM850	190	NV	-20	8.94	0.010686	±2.5	PASS
GSM850	190	NV	-10	4.36	0.005212	±2.5	PASS
GSM850	190	NV	0	4.71	0.005630	±2.5	PASS
GSM850	190	NV	10	6.33	0.007566	±2.5	PASS
GSM850	190	NV	20	1.58	0.001889	±2.5	PASS
GSM850	190	NV	30	-0.58	-0.000693	±2.5	PASS
GSM850	190	NV	40	4.04	0.004829	±2.5	PASS
GSM850	190	NV	50	1.03	0.001231	±2.5	PASS
GSM850	251	NV	-30	11.82	0.013926	±2.5	PASS
GSM850	251	NV	-20	7.43	0.008754	±2.5	PASS
GSM850	251	NV	-10	4.81	0.005667	±2.5	PASS
GSM850	251	NV	0	7.46	0.008789	±2.5	PASS
GSM850	251	NV	10	13.24	0.015598	±2.5	PASS
GSM850	251	NV	20	8.94	0.010533	±2.5	PASS
GSM850	251	NV	30	13.50	0.015905	±2.5	PASS
GSM850	251	NV	40	6.68	0.007870	±2.5	PASS
GSM850	251	NV	50	6.72	0.007917	±2.5	PASS
GPRS850	128	NV	-30	4.58	0.005557	±2.5	PASS
GPRS850	128	NV	-20	4.52	0.005484	±2.5	PASS
GPRS850	128	NV	-10	12.56	0.015239	±2.5	PASS
GPRS850	128	NV	0	8.23	0.009985	±2.5	PASS
GPRS850	128	NV	10	15.95	0.019352	±2.5	PASS
GPRS850	128	NV	20	9.78	0.011866	±2.5	PASS
GPRS850	128	NV	30	6.68	0.008105	±2.5	PASS
GPRS850	128	NV	40	10.78	0.013079	±2.5	PASS
GPRS850	128	NV	50	11.53	0.013989	±2.5	PASS
GPRS850	190	NV	-30	9.10	0.010877	±2.5	PASS
GPRS850	190	NV	-20	10.91	0.013041	±2.5	PASS
GPRS850	190	NV	-10	11.59	0.013854	±2.5	PASS
GPRS850	190	NV	0	13.88	0.016591	±2.5	PASS
GPRS850	190	NV	10	12.24	0.014631	±2.5	PASS
GPRS850	190	NV	20	18.98	0.022687	±2.5	PASS
GPRS850	190	NV	30	18.14	0.021683	±2.5	PASS
GPRS850	190	NV	40	13.17	0.015742	±2.5	PASS
GPRS850	190	NV	50	10.75	0.012850	±2.5	PASS
GPRS850	251	NV	-30	8.14	0.009590	±2.5	PASS
GPRS850	251	NV	-20	9.94	0.011711	±2.5	PASS
GPRS850	251	NV	-10	12.27	0.014456	±2.5	PASS
GPRS850	251	NV	0	14.08	0.016588	±2.5	PASS

GPRS850	251	NV	10	19.08	0.022479	±2.5	PASS
GPRS850	251	NV	20	20.99	0.024729	±2.5	PASS
GPRS850	251	NV	30	22.02	0.025943	±2.5	PASS
GPRS850	251	NV	40	16.92	0.019934	±2.5	PASS
GPRS850	251	NV	50	10.23	0.012052	±2.5	PASS
EGPRS850	128	NV	-30	0.00	0.000000	±2.5	PASS
EGPRS850	128	NV	-20	0.00	0.000000	±2.5	PASS
EGPRS850	128	NV	-10	0.00	0.000000	±2.5	PASS
EGPRS850	128	NV	0	0.00	0.000000	±2.5	PASS
EGPRS850	128	NV	10	0.00	0.000000	±2.5	PASS
EGPRS850	128	NV	20	0.00	0.000000	±2.5	PASS
EGPRS850	128	NV	30	0.00	0.000000	±2.5	PASS
EGPRS850	128	NV	40	0.00	0.000000	±2.5	PASS
EGPRS850	128	NV	50	0.00	0.000000	±2.5	PASS
EGPRS850	190	NV	-30	0.00	0.000000	±2.5	PASS
EGPRS850	190	NV	-20	0.00	0.000000	±2.5	PASS
EGPRS850	190	NV	-10	0.00	0.000000	±2.5	PASS
EGPRS850	190	NV	0	0.00	0.000000	±2.5	PASS
EGPRS850	190	NV	10	0.00	0.000000	±2.5	PASS
EGPRS850	190	NV	20	0.00	0.000000	±2.5	PASS
EGPRS850	190	NV	30	0.00	0.000000	±2.5	PASS
EGPRS850	190	NV	40	0.00	0.000000	±2.5	PASS
EGPRS850	190	NV	50	0.00	0.000000	±2.5	PASS
EGPRS850	251	NV	-30	0.00	0.000000	±2.5	PASS
EGPRS850	251	NV	-20	0.00	0.000000	±2.5	PASS
EGPRS850	251	NV	-10	0.00	0.000000	±2.5	PASS
EGPRS850	251	NV	0	0.00	0.000000	±2.5	PASS
EGPRS850	251	NV	10	0.00	0.000000	±2.5	PASS
EGPRS850	251	NV	20	0.00	0.000000	±2.5	PASS
EGPRS850	251	NV	30	0.00	0.000000	±2.5	PASS
EGPRS850	251	NV	40	0.00	0.000000	±2.5	PASS
EGPRS850	251	NV	50	0.00	0.000000	±2.5	PASS
GSM1900	512	NV	-30	31.80	0.017187	±2.5	PASS
GSM1900	512	NV	-20	20.15	0.010891	±2.5	PASS
GSM1900	512	NV	-10	22.31	0.012058	±2.5	PASS
GSM1900	512	NV	0	27.96	0.015112	±2.5	PASS
GSM1900	512	NV	10	23.63	0.012772	±2.5	PASS
GSM1900	512	NV	20	13.33	0.007205	±2.5	PASS
GSM1900	512	NV	30	8.81	0.004762	±2.5	PASS
GSM1900	512	NV	40	17.37	0.009388	±2.5	PASS
GSM1900	512	NV	50	27.57	0.014901	±2.5	PASS

GSM1900	661	NV	-30	23.02	0.012245	±2.5	PASS
GSM1900	661	NV	-20	21.92	0.011660	±2.5	PASS
GSM1900	661	NV	-10	13.08	0.006957	±2.5	PASS
GSM1900	661	NV	0	13.17	0.007005	±2.5	PASS
GSM1900	661	NV	10	1.23	0.000654	±2.5	PASS
GSM1900	661	NV	20	4.55	0.002420	±2.5	PASS
GSM1900	661	NV	30	5.49	0.002920	±2.5	PASS
GSM1900	661	NV	40	20.79	0.011059	±2.5	PASS
GSM1900	661	NV	50	7.75	0.004122	±2.5	PASS
GSM1900	810	NV	-30	23.05	0.012069	±2.5	PASS
GSM1900	810	NV	-20	22.86	0.011970	±2.5	PASS
GSM1900	810	NV	-10	22.60	0.011834	±2.5	PASS
GSM1900	810	NV	0	17.43	0.009127	±2.5	PASS
GSM1900	810	NV	10	24.70	0.012933	±2.5	PASS
GSM1900	810	NV	20	12.30	0.006440	±2.5	PASS
GSM1900	810	NV	30	6.39	0.003346	±2.5	PASS
GSM1900	810	NV	40	22.31	0.011682	±2.5	PASS
GSM1900	810	NV	50	16.79	0.008791	±2.5	PASS
GPRS1900	512	NV	-30	24.41	0.013193	±2.5	PASS
GPRS1900	512	NV	-20	34.64	0.018722	±2.5	PASS
GPRS1900	512	NV	-10	44.07	0.023819	±2.5	PASS
GPRS1900	512	NV	0	26.22	0.014171	±2.5	PASS
GPRS1900	512	NV	10	36.55	0.019755	±2.5	PASS
GPRS1900	512	NV	20	37.65	0.020349	±2.5	PASS
GPRS1900	512	NV	30	34.16	0.018463	±2.5	PASS
GPRS1900	512	NV	40	42.13	0.022771	±2.5	PASS
GPRS1900	512	NV	50	42.59	0.023019	±2.5	PASS
GPRS1900	661	NV	-30	24.12	0.012830	±2.5	PASS
GPRS1900	661	NV	-20	26.89	0.014303	±2.5	PASS
GPRS1900	661	NV	-10	40.97	0.021793	±2.5	PASS
GPRS1900	661	NV	0	27.80	0.014787	±2.5	PASS
GPRS1900	661	NV	10	28.44	0.015128	±2.5	PASS
GPRS1900	661	NV	20	40.10	0.021330	±2.5	PASS
GPRS1900	661	NV	30	29.19	0.015527	±2.5	PASS
GPRS1900	661	NV	40	39.42	0.020968	±2.5	PASS
GPRS1900	661	NV	50	44.65	0.023750	±2.5	PASS
GPRS1900	810	NV	-30	20.79	0.010886	±2.5	PASS
GPRS1900	810	NV	-20	15.85	0.008299	±2.5	PASS
GPRS1900	810	NV	-10	25.41	0.013305	±2.5	PASS
GPRS1900	810	NV	0	49.46	0.025898	±2.5	PASS
GPRS1900	810	NV	10	43.10	0.022568	±2.5	PASS

GPRS1900	810	NV	20	43.88	0.022976	±2.5	PASS
GPRS1900	810	NV	30	15.98	0.008367	±2.5	PASS
GPRS1900	810	NV	40	13.30	0.006964	±2.5	PASS
GPRS1900	810	NV	50	26.76	0.014012	±2.5	PASS
EGPRS1900	512	NV	-30	0.00	0.000000	±2.5	PASS
EGPRS1900	512	NV	-20	0.00	0.000000	±2.5	PASS
EGPRS1900	512	NV	-10	0.00	0.000000	±2.5	PASS
EGPRS1900	512	NV	0	0.00	0.000000	±2.5	PASS
EGPRS1900	512	NV	10	0.00	0.000000	±2.5	PASS
EGPRS1900	512	NV	20	0.00	0.000000	±2.5	PASS
EGPRS1900	512	NV	30	0.00	0.000000	±2.5	PASS
EGPRS1900	512	NV	40	0.00	0.000000	±2.5	PASS
EGPRS1900	512	NV	50	0.00	0.000000	±2.5	PASS
EGPRS1900	661	NV	-30	0.00	0.000000	±2.5	PASS
EGPRS1900	661	NV	-20	0.00	0.000000	±2.5	PASS
EGPRS1900	661	NV	-10	0.00	0.000000	±2.5	PASS
EGPRS1900	661	NV	0	0.00	0.000000	±2.5	PASS
EGPRS1900	661	NV	10	0.00	0.000000	±2.5	PASS
EGPRS1900	661	NV	20	0.00	0.000000	±2.5	PASS
EGPRS1900	661	NV	30	0.00	0.000000	±2.5	PASS
EGPRS1900	661	NV	40	0.00	0.000000	±2.5	PASS
EGPRS1900	661	NV	50	0.00	0.000000	±2.5	PASS
EGPRS1900	810	NV	-30	0.00	0.000000	±2.5	PASS

EGPRS190 0	810	NV	-20	0.00	0.000000	±2.5	PASS
EGPRS190 0	810	NV	-10	0.00	0.000000	±2.5	PASS
EGPRS190 0	810	NV	0	0.00	0.000000	±2.5	PASS
EGPRS190 0	810	NV	10	0.00	0.000000	±2.5	PASS
EGPRS190 0	810	NV	20	0.00	0.000000	±2.5	PASS
EGPRS190 0	810	NV	30	0.00	0.000000	±2.5	PASS
EGPRS190 0	810	NV	40	0.00	0.000000	±2.5	PASS
EGPRS190 0	810	NV	50	0.00	0.000000	±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