

Appendix for GSM1900

Product Name: Wireless data terminal

Model No: SC55G

Appendix A: Average Power Output Data

Test Result

Band	Channel	ERP/EIRP(dBm)	Verdict
GSM1900	512	29.42	PASS
GSM1900	661	29.35	PASS
GSM1900	810	28.94	PASS

Band	Channel	Slot	Power(dBm)	Verdict
GPRS1900	512	1	29.40	PASS
GPRS1900	512	2	28.54	PASS
GPRS1900	512	3	26.62	PASS
GPRS1900	512	4	25.43	PASS
GPRS1900	661	1	29.30	PASS
GPRS1900	661	2	28.48	PASS
GPRS1900	661	3	26.56	PASS
GPRS1900	661	4	25.37	PASS
GPRS1900	810	1	28.90	PASS
GPRS1900	810	2	28.13	PASS
GPRS1900	810	3	26.27	PASS
GPRS1900	810	4	25.10	PASS

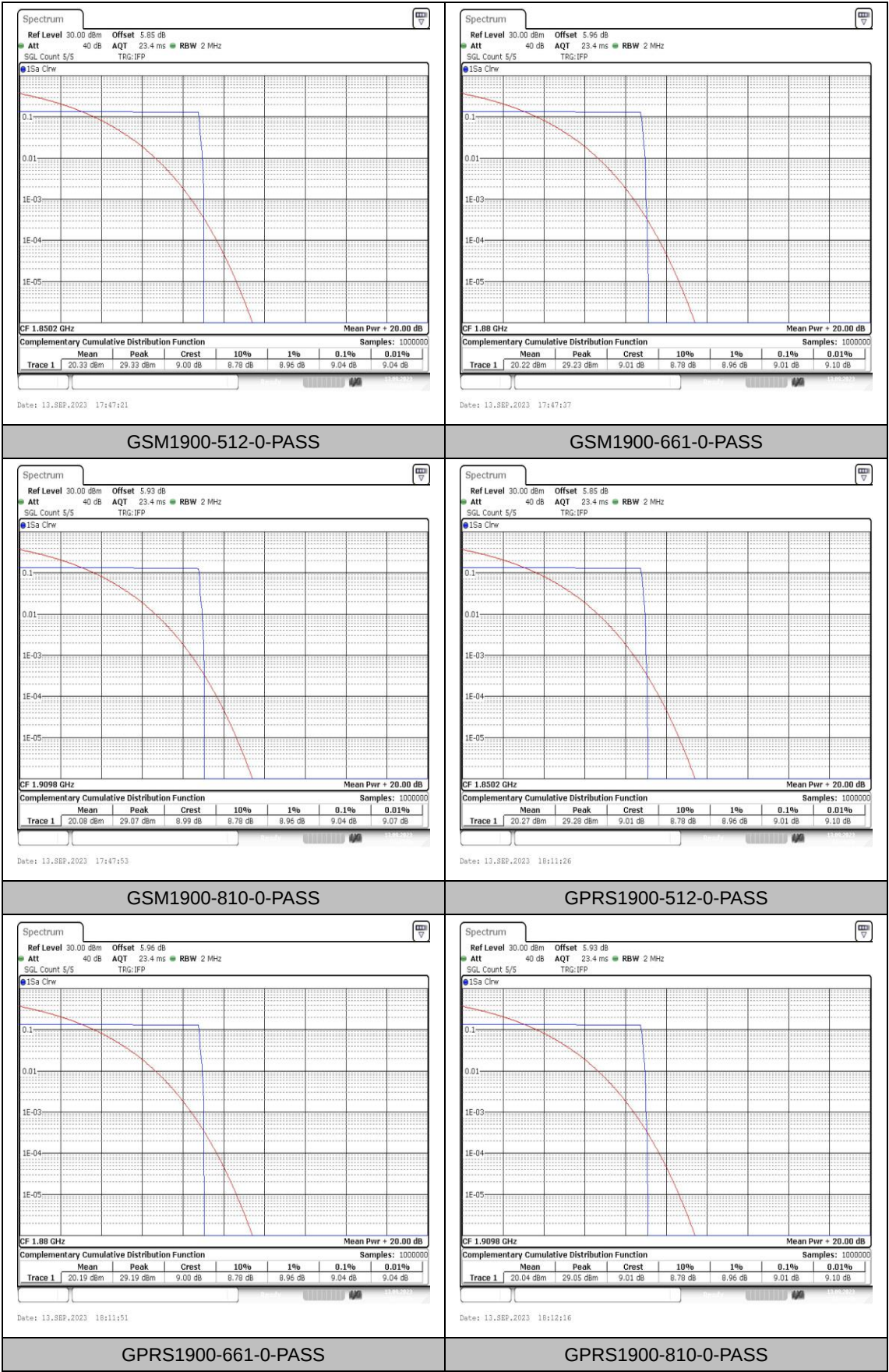
Band	Channel	Slot	Power(dBm)	Verdict
EGPRS1900	512	1	26.90	PASS
EGPRS1900	512	2	25.66	PASS
EGPRS1900	512	3	23.45	PASS
EGPRS1900	512	4	22.12	PASS
EGPRS1900	661	1	26.85	PASS
EGPRS1900	661	2	25.75	PASS
EGPRS1900	661	3	23.58	PASS
EGPRS1900	661	4	22.19	PASS
EGPRS1900	810	1	26.62	PASS
EGPRS1900	810	2	25.59	PASS
EGPRS1900	810	3	23.43	PASS
EGPRS1900	810	4	22.06	PASS

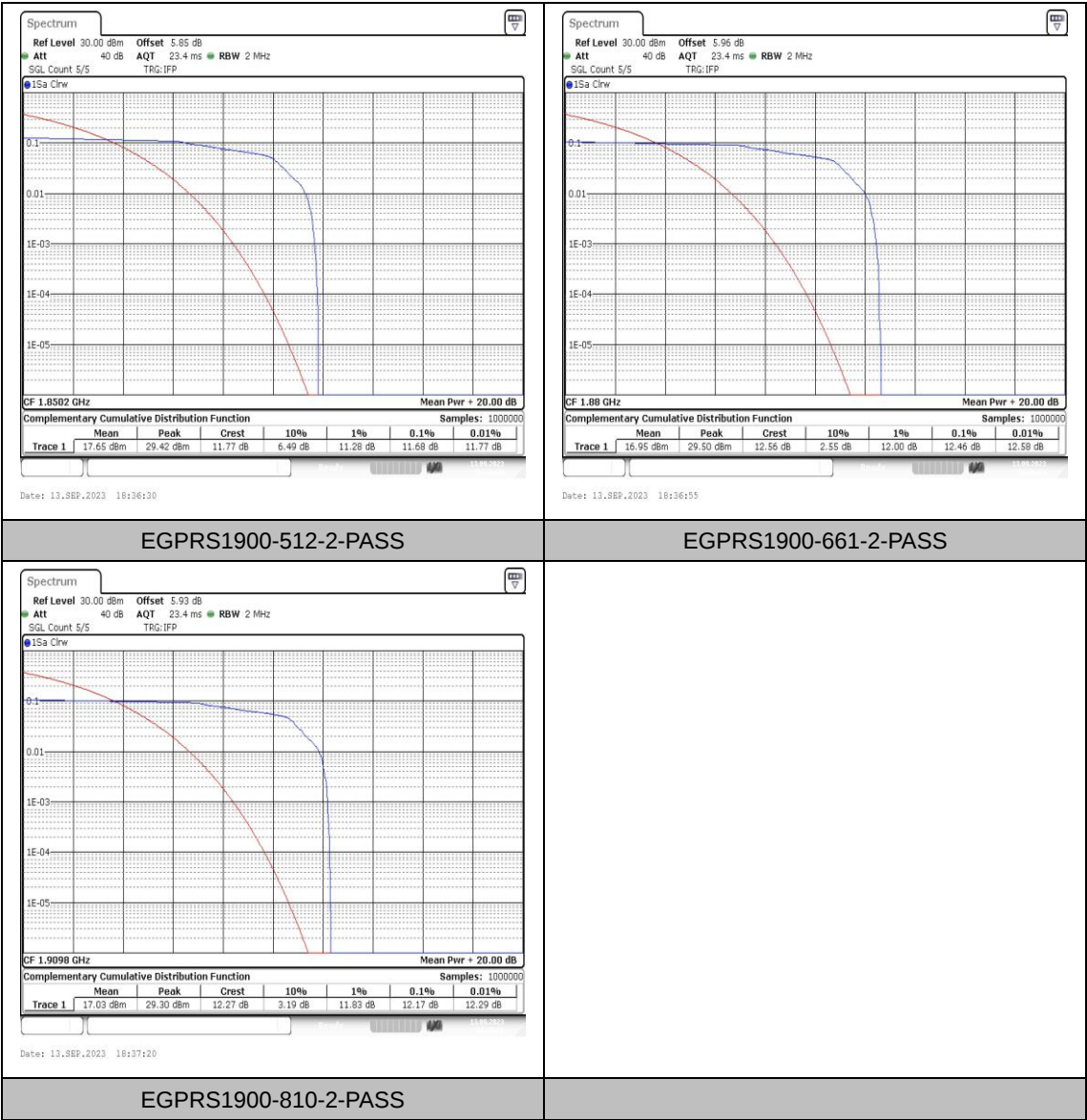
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	Result(dB)	Limit(dB)	Verdict
GSM1900	512	9.04	13	PASS
GSM1900	661	9.01	13	PASS
GSM1900	810	9.04	13	PASS
GPRS1900	512	9.01	13	PASS
GPRS1900	661	9.04	13	PASS
GPRS1900	810	9.01	13	PASS
EGPRS1900	512	11.68	13	PASS
EGPRS1900	661	12.46	13	PASS
EGPRS1900	810	12.17	13	PASS

Test Graphs



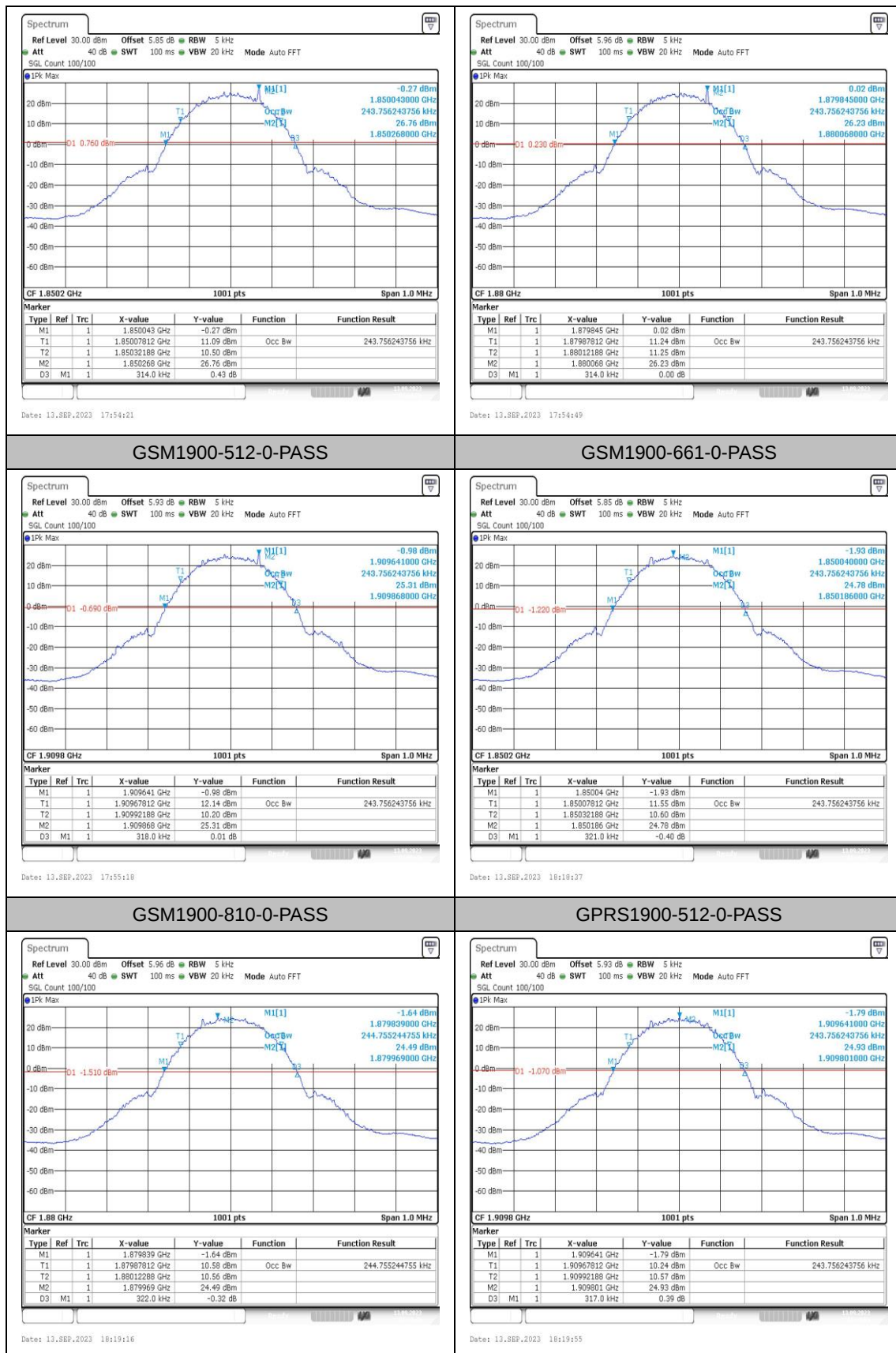


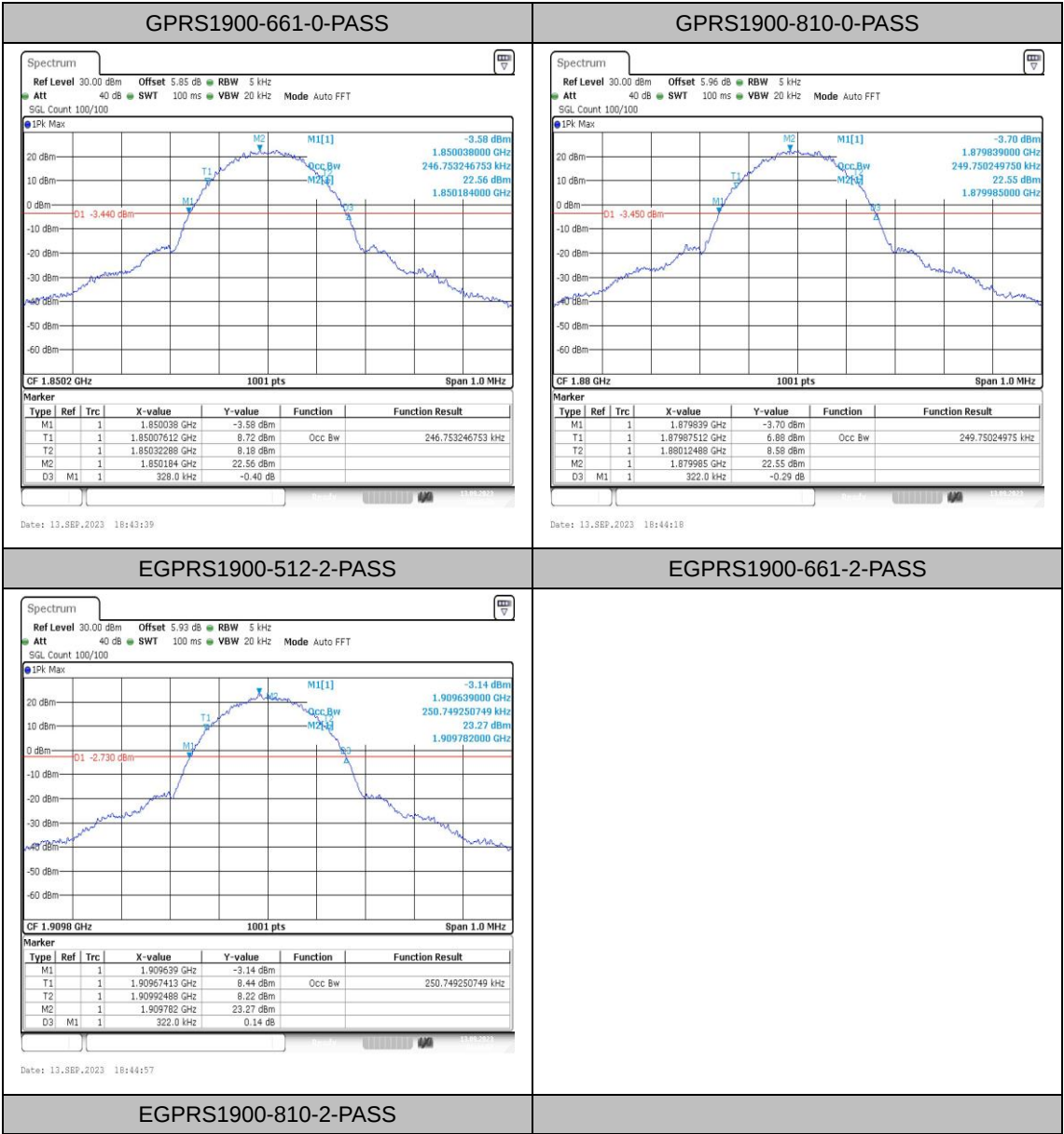
Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM1900	512	0.244	0.31	---	PASS
GSM1900	661	0.244	0.31	---	PASS
GSM1900	810	0.244	0.32	---	PASS
GPRS1900	512	0.244	0.32	---	PASS
GPRS1900	661	0.245	0.32	---	PASS
GPRS1900	810	0.244	0.32	---	PASS
EGPRS1900	512	0.247	0.33	---	PASS
EGPRS1900	661	0.25	0.32	---	PASS
EGPRS1900	810	0.251	0.32	---	PASS

Test Graphs



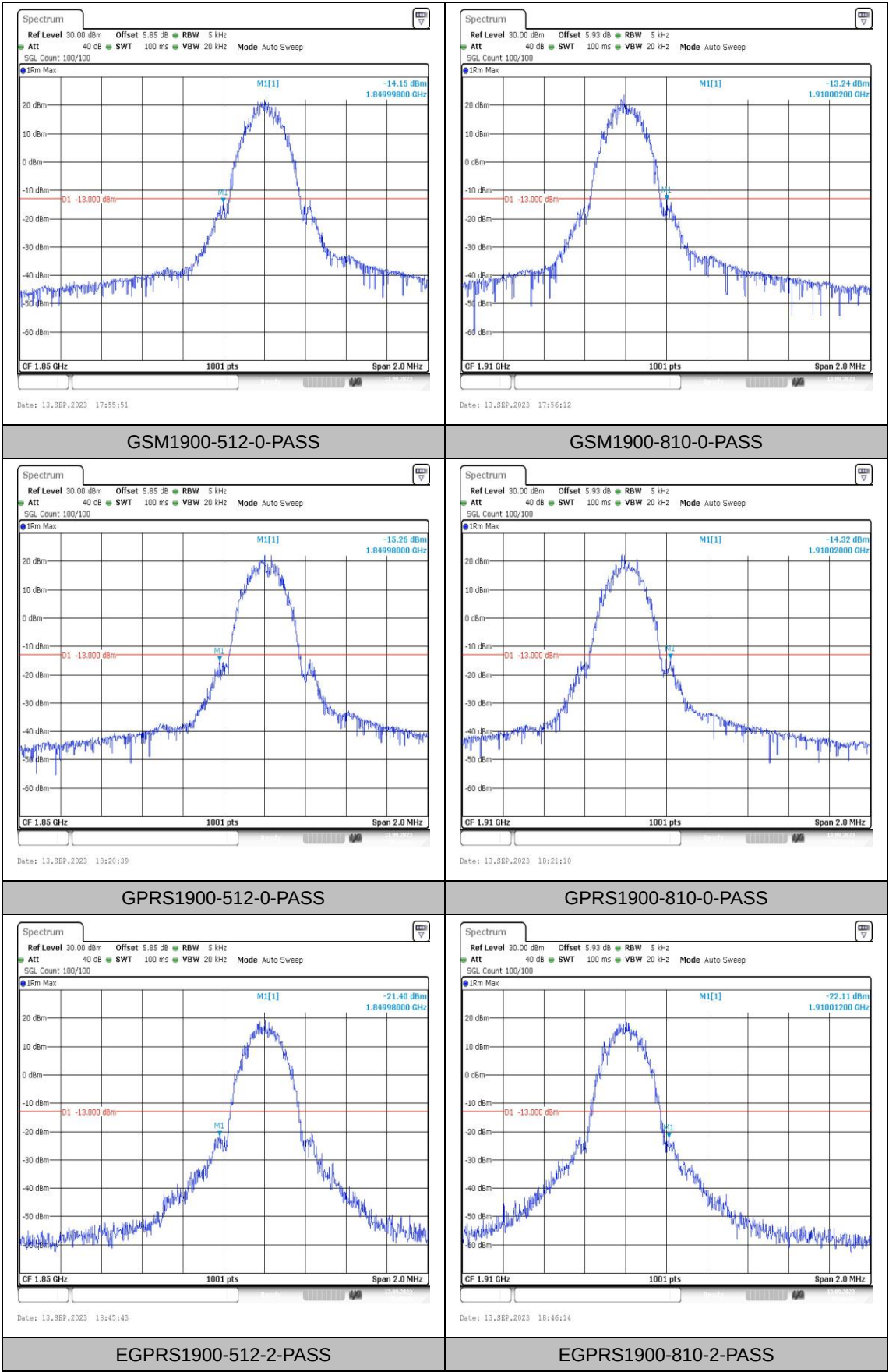


Appendix D: Band Edge

Test Result

Band	Channel	Freq (MHz)	Limit(dBm)	Verdict
GSM1900	512	1850.00	-13	PASS
GSM1900	810	1910.00	-13	PASS
GPRS1900	512	1849.98	-13	PASS
GPRS1900	810	1910.02	-13	PASS
EGPRS1900	512	1849.98	-13	PASS
EGPRS1900	810	1910.01	-13	PASS

Test Graphs



Appendix E: Conducted Spurious Emission

Test Result

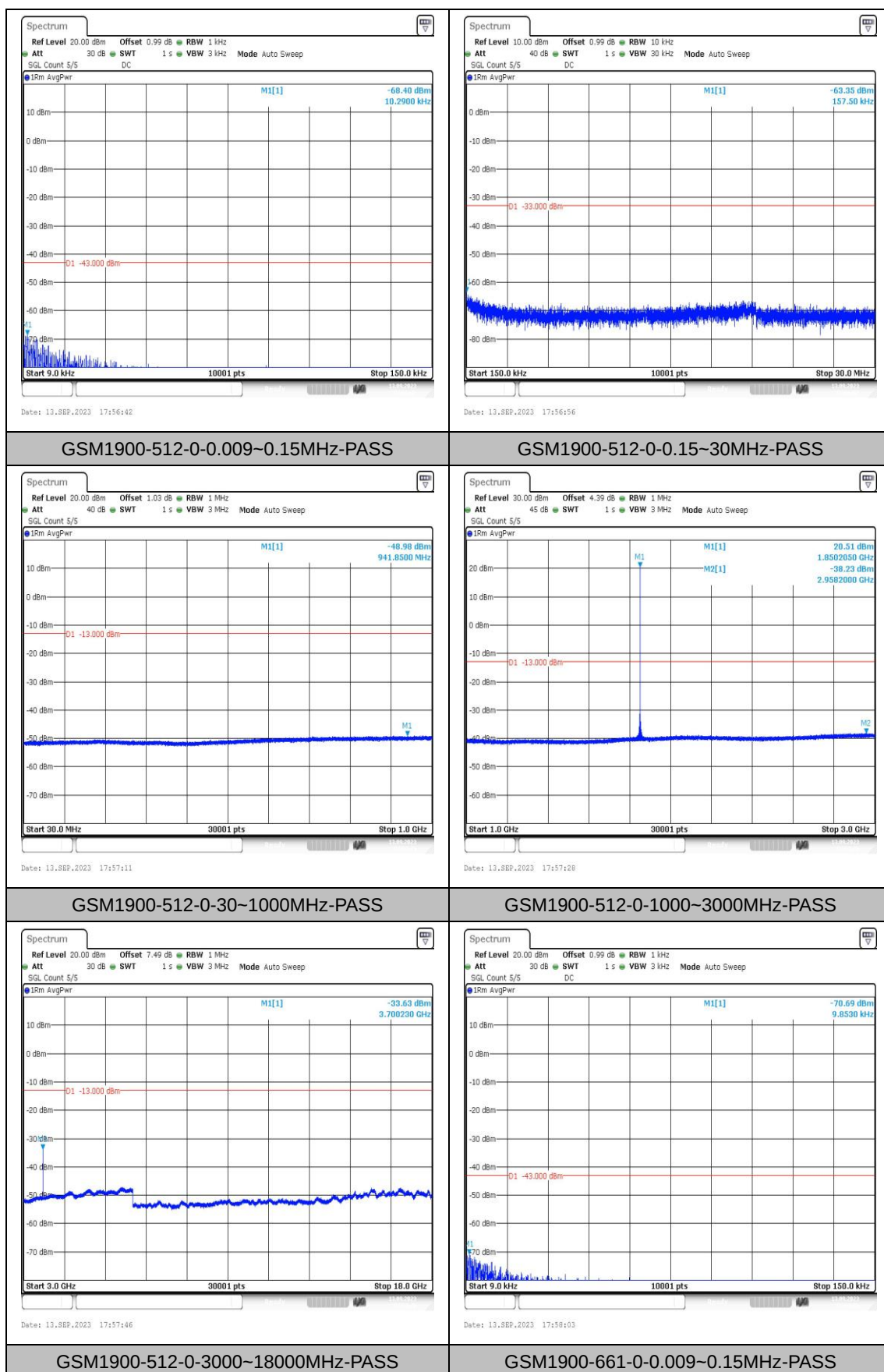
Band	Channel	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM1900	512	0.009~0.15MHz	0.01	-68.4	-43	PASS
GSM1900	512	0.15~30MHz	0.16	-63.35	-33	PASS
GSM1900	512	30~1000MHz	941.85	-48.98	-13	PASS
GSM1900	512	1000~3000MHz	2958.2	-38.23	-13	PASS
GSM1900	512	3000~18000MHz	3700.23	-33.63	-13	PASS
GSM1900	661	0.009~0.15MHz	0.01	-70.69	-43	PASS
GSM1900	661	0.15~30MHz	0.16	-62.81	-33	PASS
GSM1900	661	30~1000MHz	935.26	-49.14	-13	PASS
GSM1900	661	1000~3000MHz	2996.33	-38.24	-13	PASS
GSM1900	661	3000~18000MHz	6591.63	-47.32	-13	PASS
GSM1900	810	0.009~0.15MHz	0.01	-68.09	-43	PASS
GSM1900	810	0.15~30MHz	0.31	-63.7	-33	PASS
GSM1900	810	30~1000MHz	997.82	-49.1	-13	PASS
GSM1900	810	1000~3000MHz	2969.8	-38.18	-13	PASS
GSM1900	810	3000~18000MHz	6573.13	-47.08	-13	PASS
GPRS1900	512	0.009~0.15MHz	0.01	-69.25	-43	PASS
GPRS1900	512	0.15~30MHz	0.16	-62.86	-33	PASS
GPRS1900	512	30~1000MHz	890.38	-49.09	-13	PASS
GPRS1900	512	1000~3000MHz	2899.27	-38.16	-13	PASS
GPRS1900	512	3000~18000MHz	6598.13	-47.11	-13	PASS
GPRS1900	661	0.009~0.15MHz	0.01	-67.22	-43	PASS
GPRS1900	661	0.15~30MHz	0.24	-64.39	-33	PASS
GPRS1900	661	30~1000MHz	993.94	-49.03	-13	PASS
GPRS1900	661	1000~3000MHz	2986.13	-38.13	-13	PASS
GPRS1900	661	3000~18000MHz	3760.22	-34.01	-13	PASS
GPRS1900	810	0.009~0.15MHz	0.01	-68.35	-43	PASS
GPRS1900	810	0.15~30MHz	0.22	-63.15	-33	PASS
GPRS1900	810	30~1000MHz	972.86	-48.96	-13	PASS
GPRS1900	810	1000~3000MHz	2950.4	-38.13	-13	PASS
GPRS1900	810	3000~18000MHz	6618.13	-47.23	-13	PASS
EGPRS1900	512	0.009~0.15MHz	0.02	-66.12	-43	PASS
EGPRS1900	512	0.15~30MHz	0.15	-62.55	-33	PASS
EGPRS1900	512	30~1000MHz	916.41	-48.99	-13	PASS
EGPRS1900	512	1000~3000MHz	2988.33	-38.05	-13	PASS
EGPRS1900	512	3000~18000MHz	3700.23	-36.51	-13	PASS
EGPRS1900	661	0.009~0.15MHz	0.02	-65.4	-43	PASS

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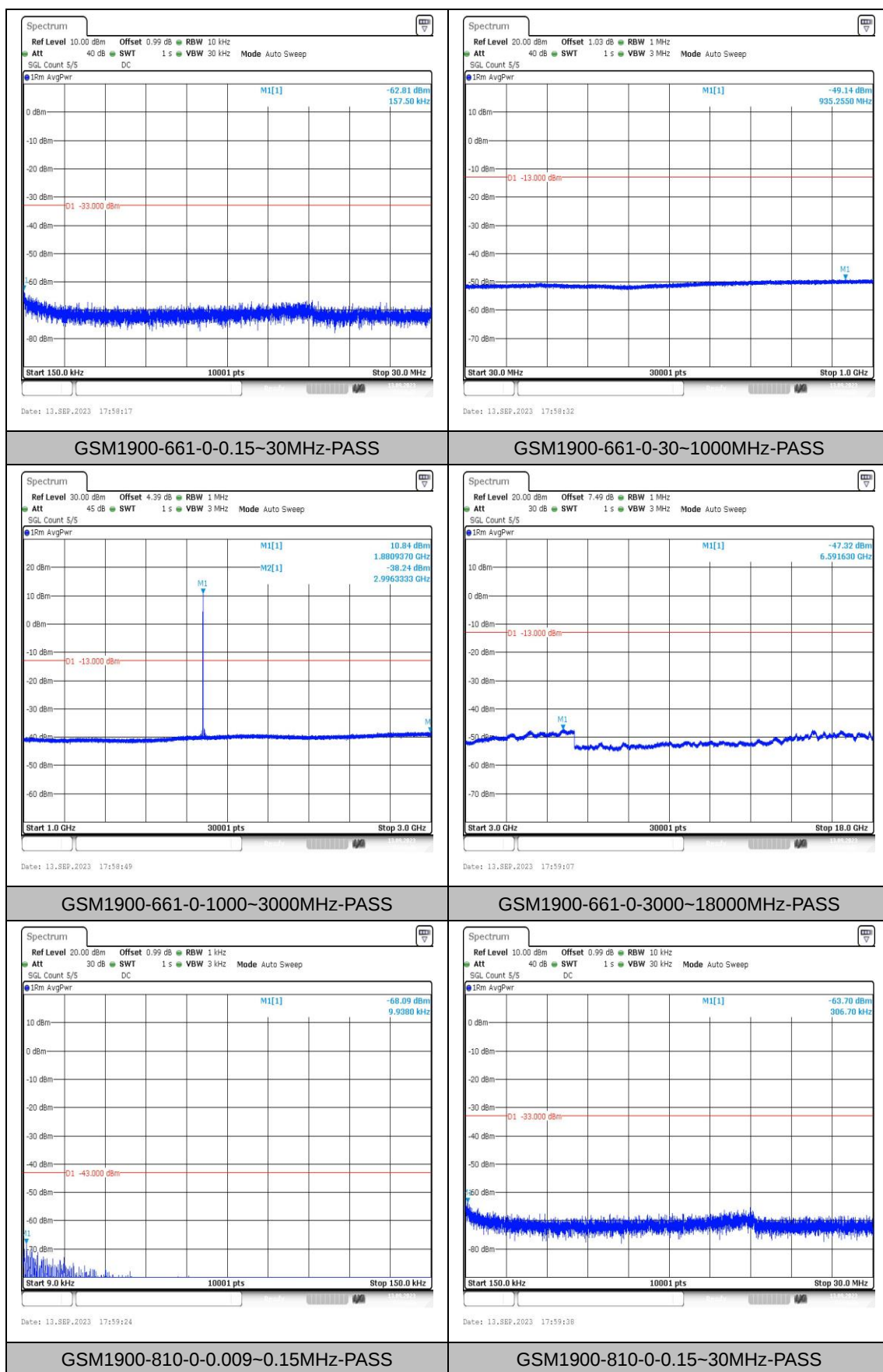
EGPRS1900	661	0.15~30MHz	0.38	-63.9	-33	PASS
EGPRS1900	661	30~1000MHz	982.46	-49.12	-13	PASS
EGPRS1900	661	1000~3000MHz	2964	-38.21	-13	PASS
EGPRS1900	661	3000~18000MHz	5640.16	-45.51	-13	PASS
EGPRS1900	810	0.009~0.15MHz	0.03	-67.14	-43	PASS
EGPRS1900	810	0.15~30MHz	0.18	-62.64	-33	PASS
EGPRS1900	810	30~1000MHz	995.17	-49.15	-13	PASS
EGPRS1900	810	1000~3000MHz	2997.47	-38.11	-13	PASS
EGPRS1900	810	3000~18000MHz	6611.13	-46.87	-13	PASS

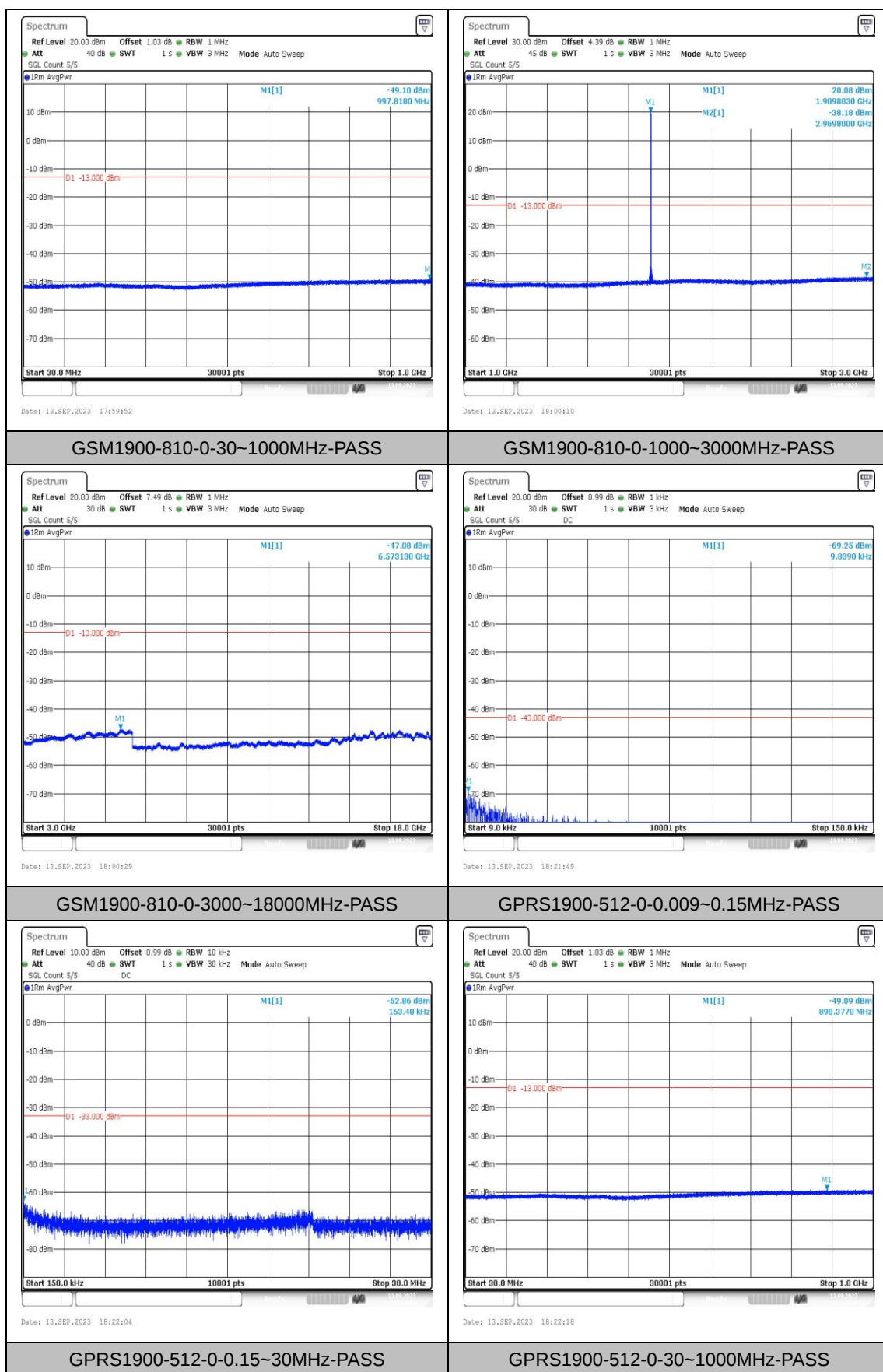
Test Graphs

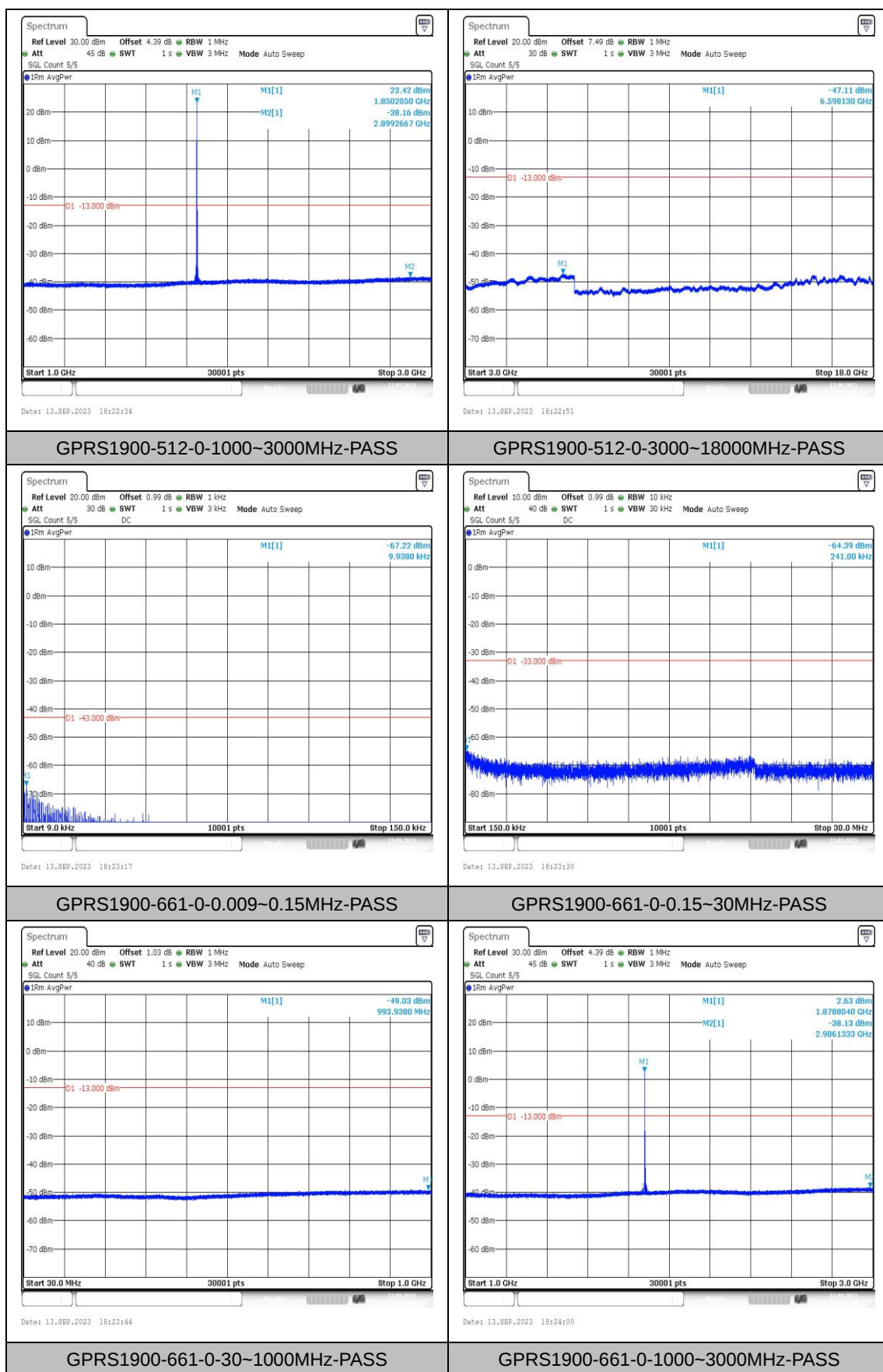


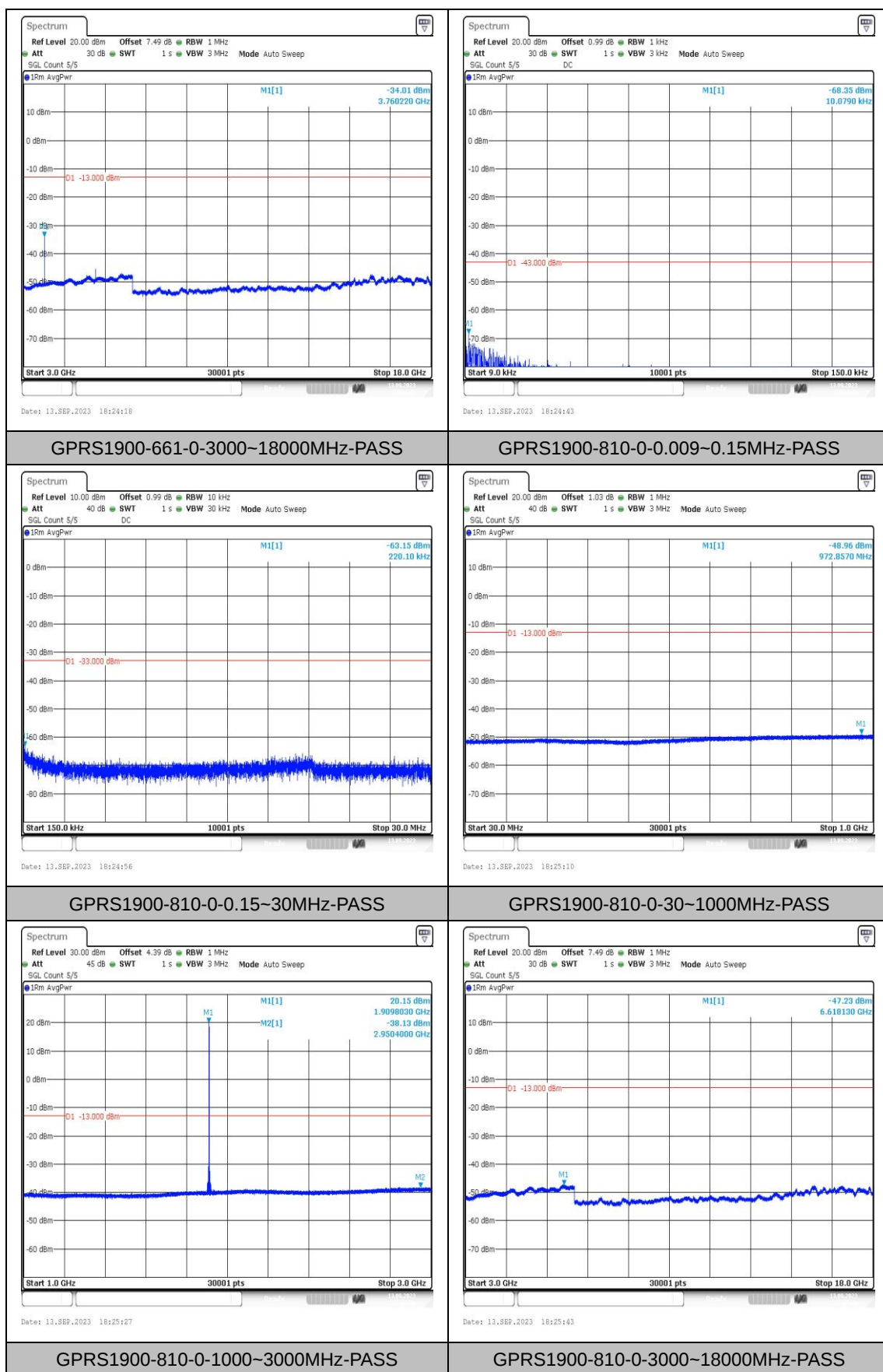
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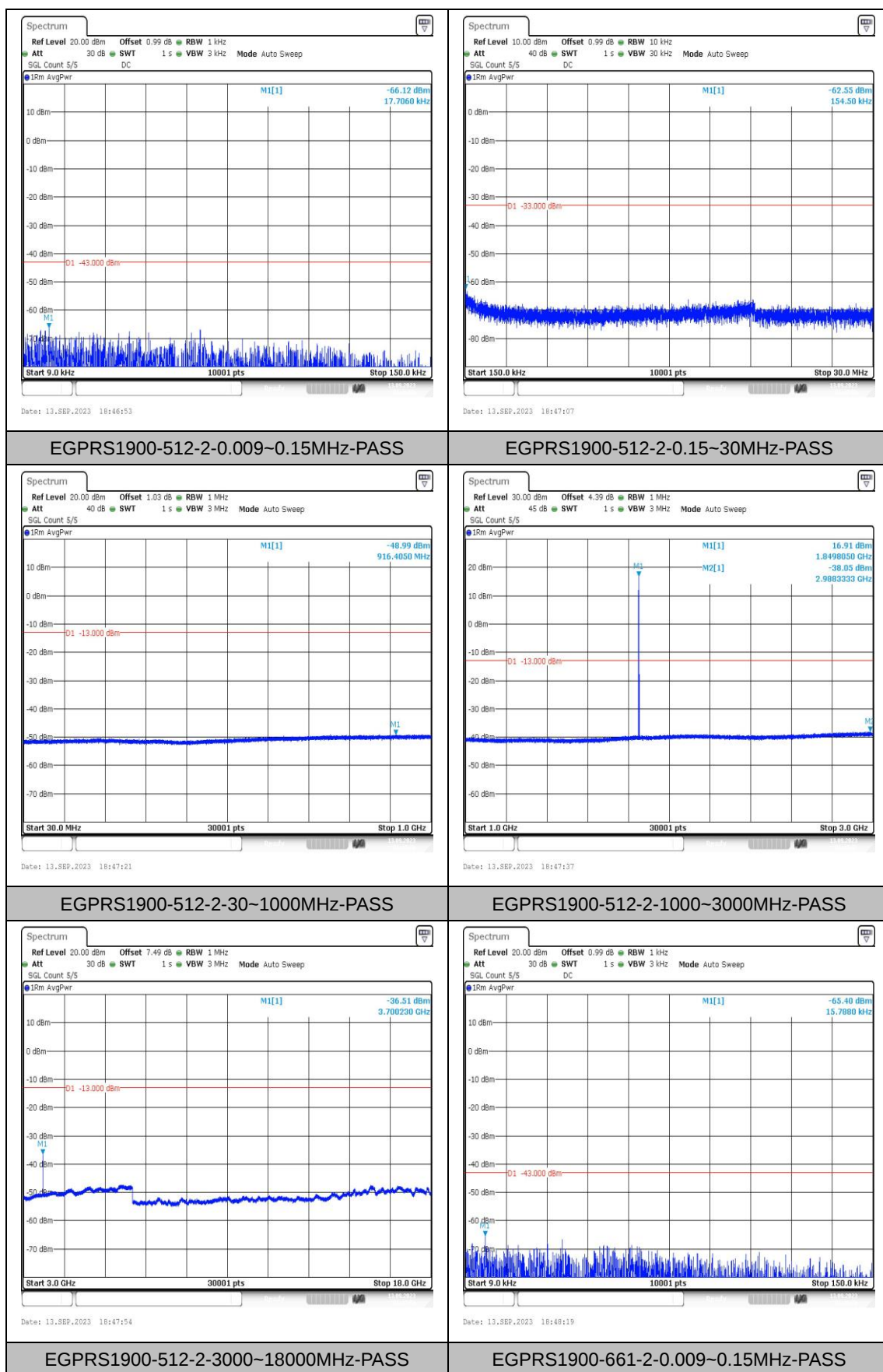
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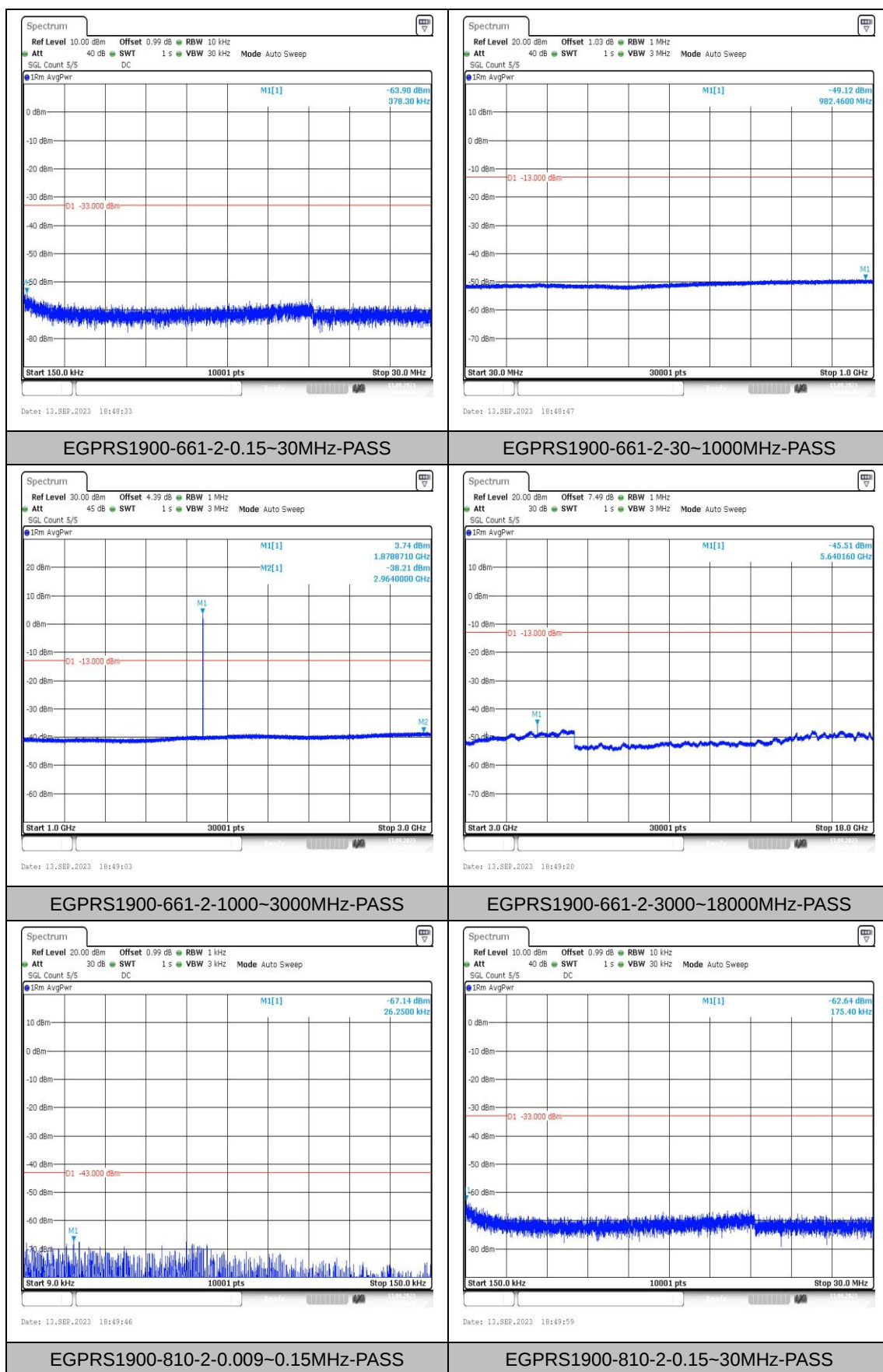


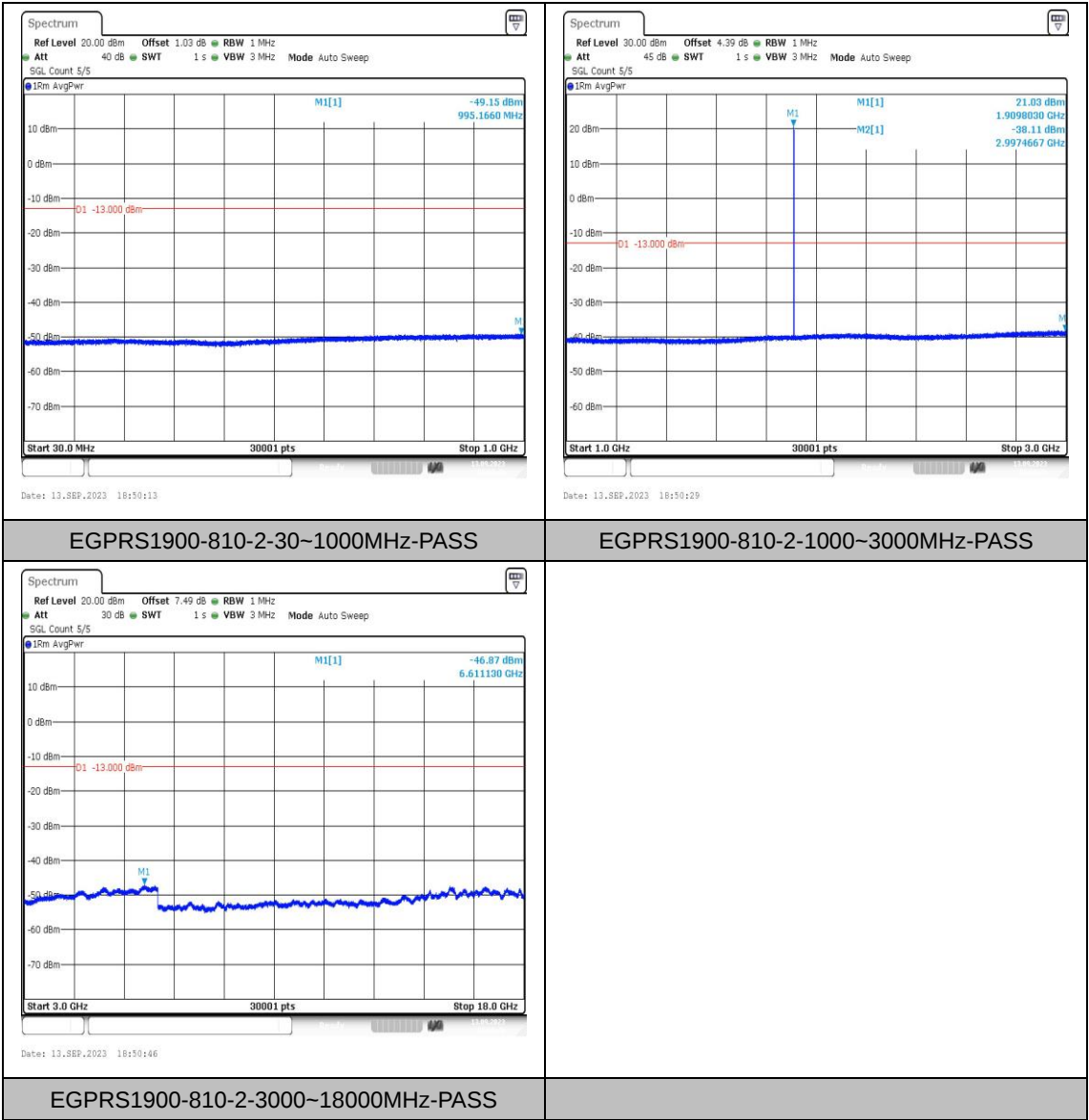












Appendix F: Frequency Stability

Test Result

Voltage							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM1900	512	VN	NT	30.64	0.016560	±2.5	PASS
GSM1900	512	VL	NT	28.12	0.015198	±2.5	PASS
GSM1900	512	VH	NT	28.25	0.015269	±2.5	PASS
GSM1900	661	VN	NT	30.38	0.016160	±2.5	PASS
GSM1900	661	VL	NT	28.15	0.014973	±2.5	PASS
GSM1900	661	VH	NT	30.45	0.016197	±2.5	PASS
GSM1900	810	VN	NT	27.60	0.014452	±2.5	PASS
GSM1900	810	VL	NT	31.58	0.016536	±2.5	PASS
GSM1900	810	VH	NT	32.06	0.016787	±2.5	PASS
GPRS1900	512	VN	NT	25.96	0.014031	±2.5	PASS
GPRS1900	512	VL	NT	26.28	0.014204	±2.5	PASS
GPRS1900	512	VH	NT	26.60	0.014377	±2.5	PASS
GPRS1900	661	VN	NT	21.73	0.011559	±2.5	PASS
GPRS1900	661	VL	NT	23.70	0.012606	±2.5	PASS
GPRS1900	661	VH	NT	25.73	0.013686	±2.5	PASS
GPRS1900	810	VN	NT	26.60	0.013928	±2.5	PASS
GPRS1900	810	VL	NT	28.90	0.015132	±2.5	PASS
GPRS1900	810	VH	NT	21.70	0.011362	±2.5	PASS
EGPRS1900	512	VN	NT	24.60	0.013296	±2.5	PASS
EGPRS1900	512	VL	NT	22.18	0.011988	±2.5	PASS
EGPRS1900	512	VH	NT	24.34	0.013155	±2.5	PASS
EGPRS1900	661	VN	NT	23.47	0.012484	±2.5	PASS
EGPRS1900	661	VL	NT	24.99	0.013293	±2.5	PASS
EGPRS1900	661	VH	NT	22.31	0.011867	±2.5	PASS
EGPRS1900	810	VN	NT	24.92	0.013048	±2.5	PASS
EGPRS1900	810	VL	NT	20.92	0.010954	±2.5	PASS
EGPRS1900	810	VH	NT	21.34	0.011174	±2.5	PASS

Temperature							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM1900	512	NV	-30	20.95	0.011323	±2.5	PASS
GSM1900	512	NV	-20	25.93	0.014015	±2.5	PASS
GSM1900	512	NV	-10	29.67	0.016036	±2.5	PASS

GSM1900	512	NV	0	23.83	0.012880	±2.5	PASS
GSM1900	512	NV	10	23.02	0.012442	±2.5	PASS
GSM1900	512	NV	20	26.76	0.014463	±2.5	PASS
GSM1900	512	NV	30	31.80	0.017187	±2.5	PASS
GSM1900	512	NV	40	26.31	0.014220	±2.5	PASS
GSM1900	512	NV	50	28.15	0.015215	±2.5	PASS
GSM1900	661	NV	-30	30.41	0.016176	±2.5	PASS
GSM1900	661	NV	-20	26.38	0.014032	±2.5	PASS
GSM1900	661	NV	-10	30.93	0.016452	±2.5	PASS
GSM1900	661	NV	0	29.44	0.015660	±2.5	PASS
GSM1900	661	NV	10	25.22	0.013415	±2.5	PASS
GSM1900	661	NV	20	31.03	0.016505	±2.5	PASS
GSM1900	661	NV	30	27.93	0.014856	±2.5	PASS
GSM1900	661	NV	40	30.25	0.016090	±2.5	PASS
GSM1900	661	NV	50	27.77	0.014771	±2.5	PASS
GSM1900	810	NV	-30	29.96	0.015688	±2.5	PASS
GSM1900	810	NV	-20	32.77	0.017159	±2.5	PASS
GSM1900	810	NV	-10	21.37	0.011190	±2.5	PASS
GSM1900	810	NV	0	27.54	0.014420	±2.5	PASS
GSM1900	810	NV	10	26.41	0.013829	±2.5	PASS
GSM1900	810	NV	20	34.03	0.017819	±2.5	PASS
GSM1900	810	NV	30	28.48	0.014913	±2.5	PASS
GSM1900	810	NV	40	29.25	0.015316	±2.5	PASS
GSM1900	810	NV	50	28.90	0.015132	±2.5	PASS
GPRS1900	512	NV	-30	22.73	0.012285	±2.5	PASS
GPRS1900	512	NV	-20	23.50	0.012701	±2.5	PASS
GPRS1900	512	NV	-10	33.51	0.018112	±2.5	PASS
GPRS1900	512	NV	0	24.28	0.013123	±2.5	PASS
GPRS1900	512	NV	10	31.09	0.016804	±2.5	PASS
GPRS1900	512	NV	20	33.67	0.018198	±2.5	PASS
GPRS1900	512	NV	30	29.64	0.016020	±2.5	PASS
GPRS1900	512	NV	40	26.18	0.014150	±2.5	PASS
GPRS1900	512	NV	50	26.35	0.014242	±2.5	PASS
GPRS1900	661	NV	-30	23.34	0.012415	±2.5	PASS
GPRS1900	661	NV	-20	25.25	0.013431	±2.5	PASS
GPRS1900	661	NV	-10	32.54	0.017309	±2.5	PASS
GPRS1900	661	NV	0	31.48	0.016745	±2.5	PASS
GPRS1900	661	NV	10	33.96	0.018064	±2.5	PASS
GPRS1900	661	NV	20	27.44	0.014596	±2.5	PASS
GPRS1900	661	NV	30	20.40	0.010851	±2.5	PASS
GPRS1900	661	NV	40	28.77	0.015303	±2.5	PASS

GPRS1900	661	NV	50	29.80	0.015851	±2.5	PASS
GPRS1900	810	NV	-30	20.79	0.010886	±2.5	PASS
GPRS1900	810	NV	-20	26.73	0.013996	±2.5	PASS
GPRS1900	810	NV	-10	31.12	0.016295	±2.5	PASS
GPRS1900	810	NV	0	36.81	0.019274	±2.5	PASS
GPRS1900	810	NV	10	33.09	0.017326	±2.5	PASS
GPRS1900	810	NV	20	28.19	0.014761	±2.5	PASS
GPRS1900	810	NV	30	32.80	0.017175	±2.5	PASS
GPRS1900	810	NV	40	26.54	0.013897	±2.5	PASS
GPRS1900	810	NV	50	28.77	0.015064	±2.5	PASS
EGPRS1900	512	NV	-30	25.09	0.013561	±2.5	PASS
EGPRS1900	512	NV	-20	31.25	0.016890	±2.5	PASS
EGPRS1900	512	NV	-10	32.25	0.017431	±2.5	PASS
EGPRS1900	512	NV	0	34.68	0.018744	±2.5	PASS
EGPRS1900	512	NV	10	28.83	0.015582	±2.5	PASS
EGPRS1900	512	NV	20	35.97	0.019441	±2.5	PASS
EGPRS1900	512	NV	30	37.52	0.020279	±2.5	PASS
EGPRS1900	512	NV	40	31.96	0.017274	±2.5	PASS
EGPRS1900	512	NV	50	33.48	0.018095	±2.5	PASS
EGPRS1900	661	NV	-30	17.66	0.009394	±2.5	PASS
EGPRS1900	661	NV	-20	20.53	0.010920	±2.5	PASS
EGPRS1900	661	NV	-10	29.96	0.015936	±2.5	PASS
EGPRS1900	661	NV	0	27.54	0.014649	±2.5	PASS
EGPRS1900	661	NV	10	26.28	0.013979	±2.5	PASS
EGPRS1900	661	NV	20	33.93	0.018048	±2.5	PASS
EGPRS1900	661	NV	30	32.16	0.017106	±2.5	PASS
EGPRS1900	661	NV	40	29.86	0.015883	±2.5	PASS
EGPRS1900	661	NV	50	30.51	0.016229	±2.5	PASS
EGPRS1900	810	NV	-30	27.31	0.014300	±2.5	PASS
EGPRS1900	810	NV	-20	19.31	0.010111	±2.5	PASS
EGPRS1900	810	NV	-10	28.80	0.015080	±2.5	PASS
EGPRS1900	810	NV	0	26.28	0.013761	±2.5	PASS
EGPRS1900	810	NV	10	32.61	0.017075	±2.5	PASS
EGPRS1900	810	NV	20	30.25	0.015839	±2.5	PASS
EGPRS1900	810	NV	30	26.67	0.013965	±2.5	PASS
EGPRS1900	810	NV	40	33.93	0.017766	±2.5	PASS
EGPRS1900	810	NV	50	31.41	0.016447	±2.5	PASS

Appendix G: Modulation Characteristics

Test Result

Band	Channel	Result	Verdict
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

