

Appendix A: Effective Radiated Power Output Data

Test Result

Band	Channel	conducted power(dBm)	Max AntGain (dBi)	ERP (dBm)	Limit(dBm)	Verdict
GSM850	128	32.52	-2.5	30.02	38.45	PASS
GSM850	190	32.64	-2.5	30.14	38.45	PASS
GSM850	251	32.49	-2.5	29.99	38.45	PASS

Band	Channel	Up Slot Num	conducted power (dBm)	Max AntGain (dBi)	ERP (dBm)	Limit(dBm)	Verdict
GPRS850	128	1	32.61	-2.5	30.11	38.45	PASS
GPRS850	128	2	31.75	-2.5	29.25	38.45	PASS
GPRS850	128	3	29.88	-2.5	27.38	38.45	PASS
GPRS850	128	4	28.84	-2.5	26.34	38.45	PASS
GPRS850	190	1	32.69	-2.5	30.19	38.45	PASS
GPRS850	190	2	31.84	-2.5	29.34	38.45	PASS
GPRS850	190	3	29.97	-2.5	27.47	38.45	PASS
GPRS850	190	4	28.94	-2.5	26.44	38.45	PASS
GPRS850	251	1	32.54	-2.5	30.04	38.45	PASS
GPRS850	251	2	31.68	-2.5	29.18	38.45	PASS
GPRS850	251	3	29.80	-2.5	27.30	38.45	PASS
GPRS850	251	4	28.76	-2.5	26.26	38.45	PASS

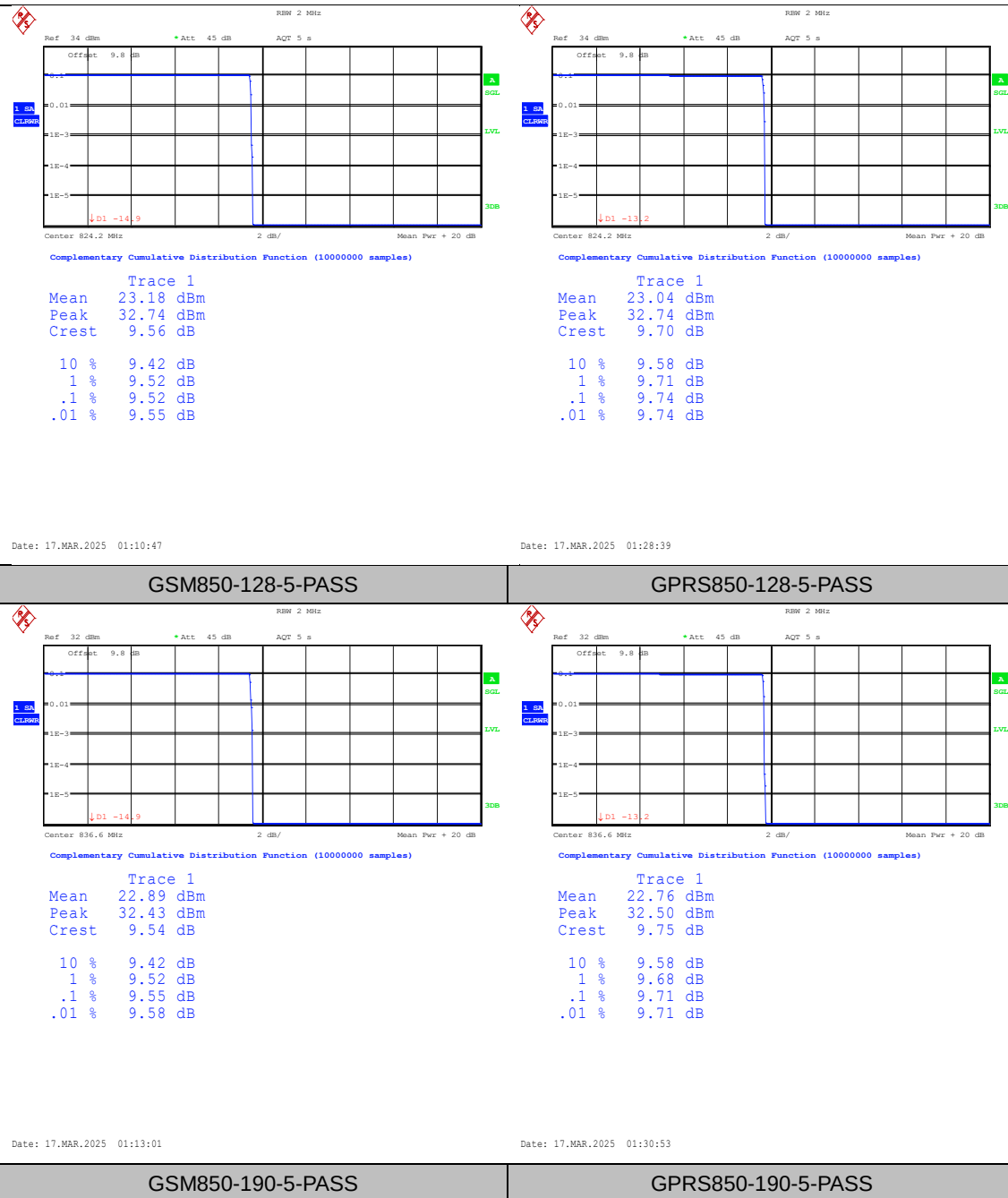
Band	Channel	Up Slot Num	conducted power (dBm)	Max AntGain (dBi)	ERP (dBm)	Limit(dBm)	Verdict
EGPRS850	128	1	26.05	-2.5	23.55	38.45	PASS
EGPRS850	128	2	24.87	-2.5	22.37	38.45	PASS
EGPRS850	128	3	22.78	-2.5	20.28	38.45	PASS
EGPRS850	128	4	21.78	-2.5	19.28	38.45	PASS
EGPRS850	190	1	26.71	-2.5	24.21	38.45	PASS
EGPRS850	190	2	25.56	-2.5	23.06	38.45	PASS
EGPRS850	190	3	23.50	-2.5	21.00	38.45	PASS
EGPRS850	190	4	22.38	-2.5	19.88	38.45	PASS
EGPRS850	251	1	26.93	-2.5	24.43	38.45	PASS
EGPRS850	251	2	25.86	-2.5	23.36	38.45	PASS
EGPRS850	251	3	23.71	-2.5	21.21	38.45	PASS
EGPRS850	251	4	22.65	-2.5	20.15	38.45	PASS

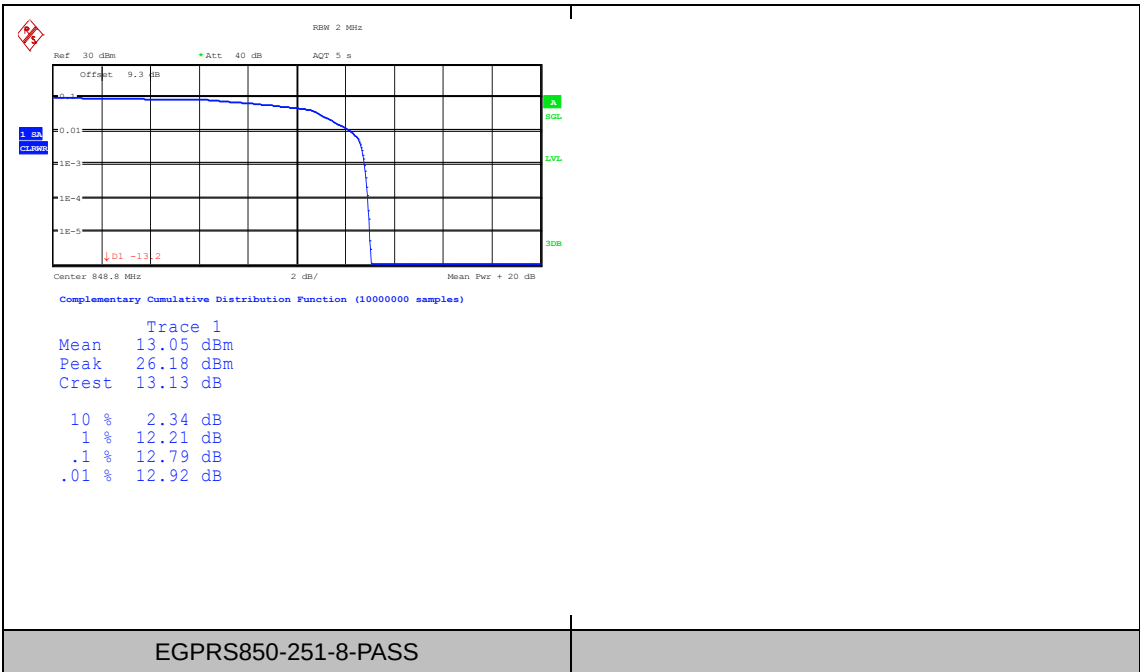
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	Result(dB)	Limit(dB)	Verdict
GSM850	128	9.52	13	PASS
GPRS850	128	9.74	13	PASS
GSM850	190	9.55	13	PASS
GPRS850	190	9.71	13	PASS
GSM850	251	9.52	13	PASS
GPRS850	251	9.74	13	PASS
EGPRS850	128	12.79	13	PASS
EGPRS850	190	12.76	13	PASS
EGPRS850	251	12.79	13	PASS

Test Graphs





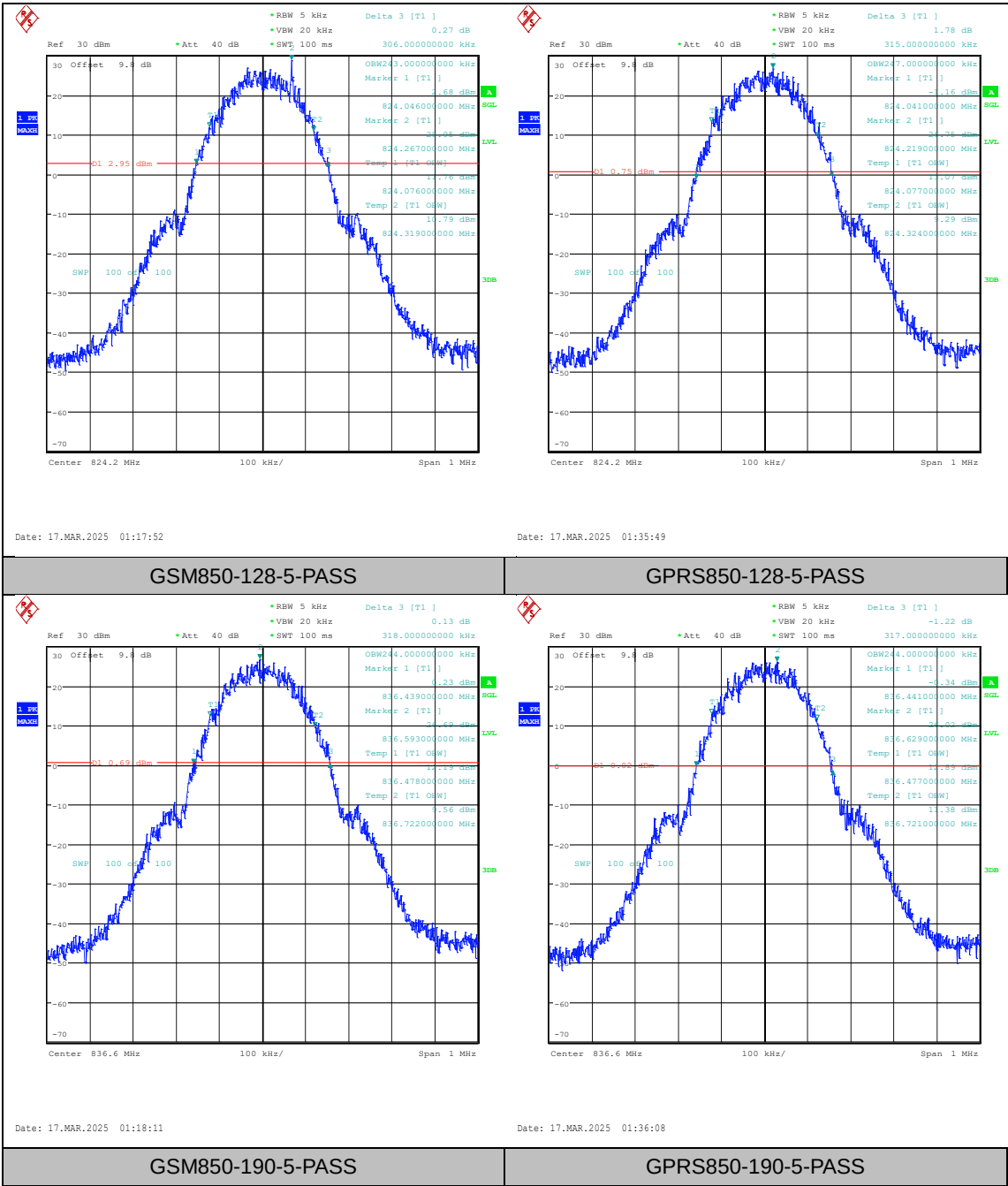
EGPRS850-251-8-PASS

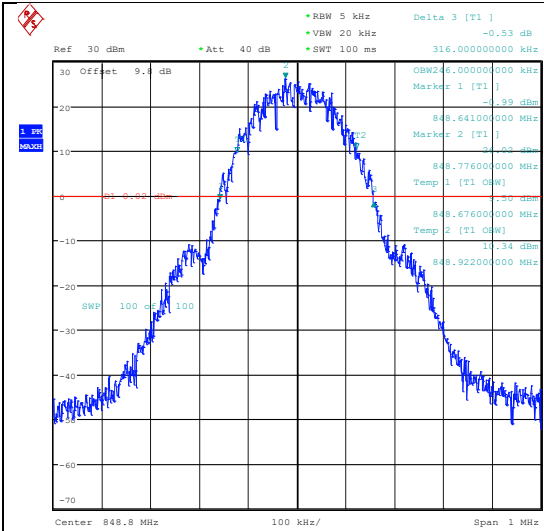
Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

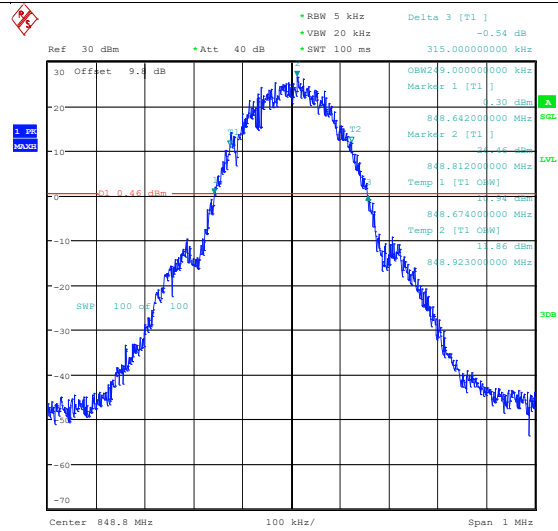
Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	0.243	0.31	---	PASS
GPRS850	128	0.247	0.31	---	PASS
GSM850	190	0.244	0.32	---	PASS
GPRS850	190	0.244	0.32	---	PASS
GSM850	251	0.246	0.32	---	PASS
GPRS850	251	0.249	0.32	---	PASS
EGPRS850	128	0.24	0.31	---	PASS
EGPRS850	190	0.241	0.30	---	PASS
EGPRS850	251	0.243	0.31	---	PASS

Test Graphs





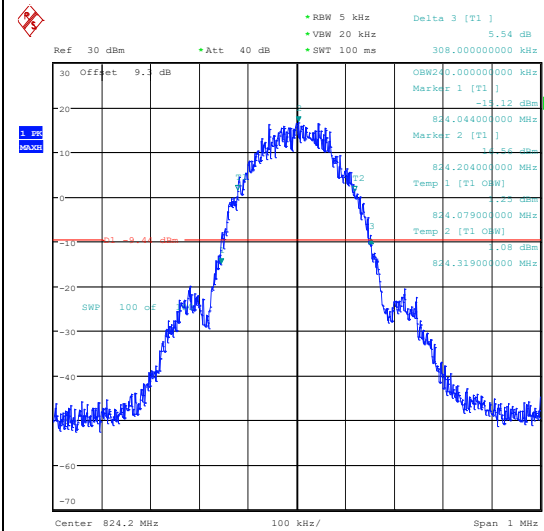
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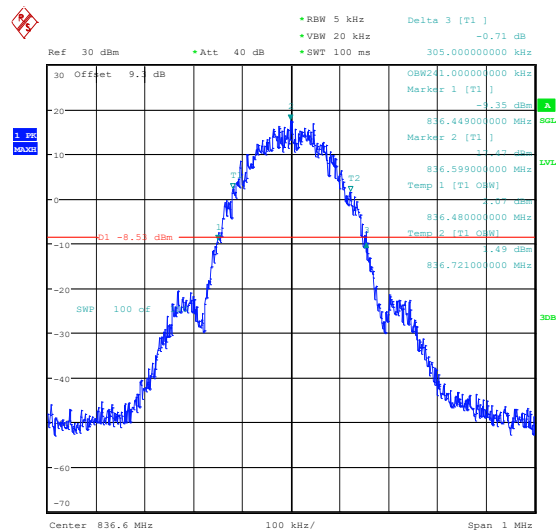
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GSM850-251-5-PASS

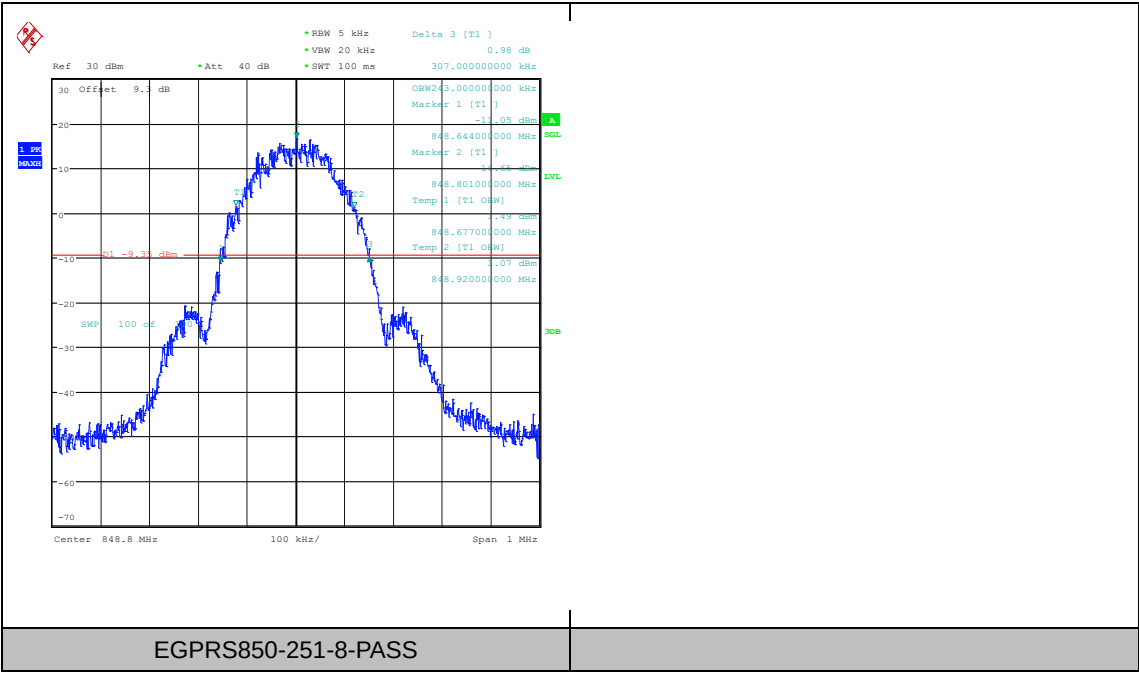
GPRS850-251-5-PASS



EGPRS850-128-8-PASS



EGPRS850-190-8-PASS

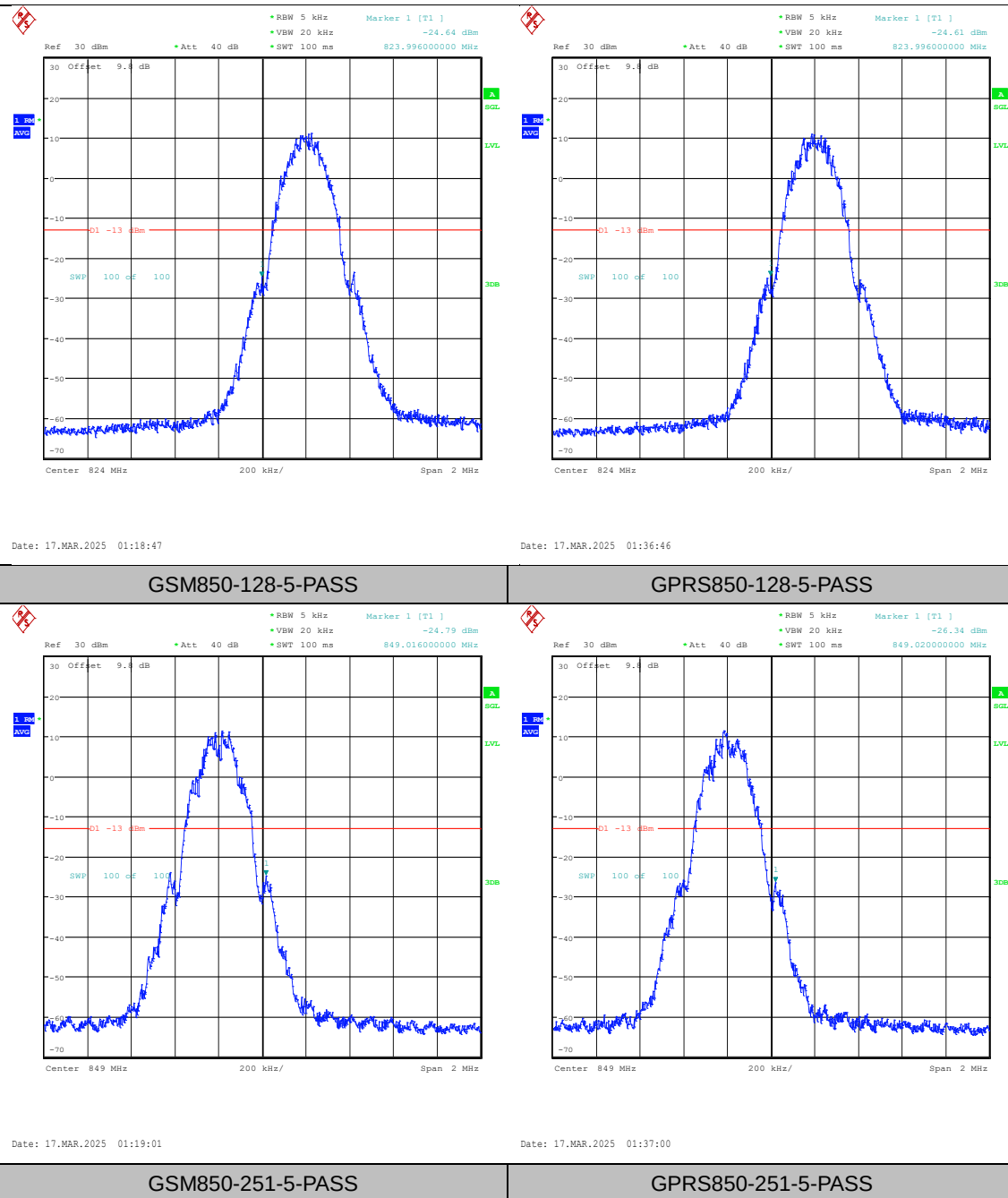


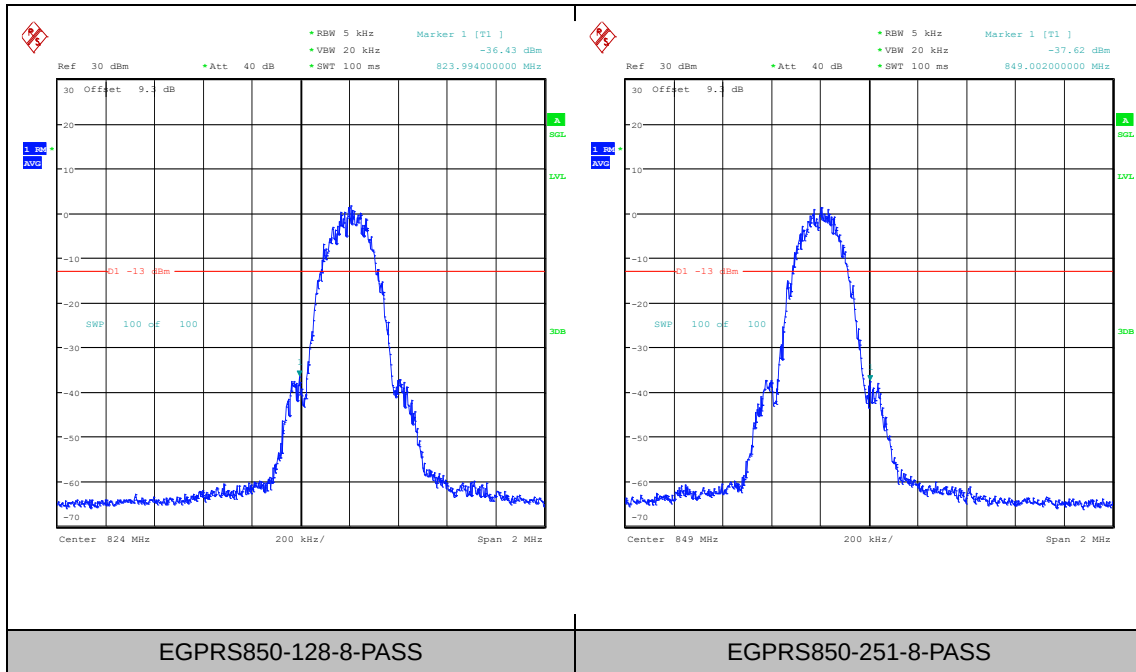
Appendix D: Band Edge

Test Result

Band	Channel	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	824.00	-24.64	-13	PASS
GPRS850	128	824.00	-24.61	-13	PASS
GSM850	251	849.02	-24.79	-13	PASS
GPRS850	251	849.02	-26.34	-13	PASS
EGPRS850	128	823.99	-36.43	-13	PASS
EGPRS850	251	849.00	-37.62	-13	PASS

Test Graphs



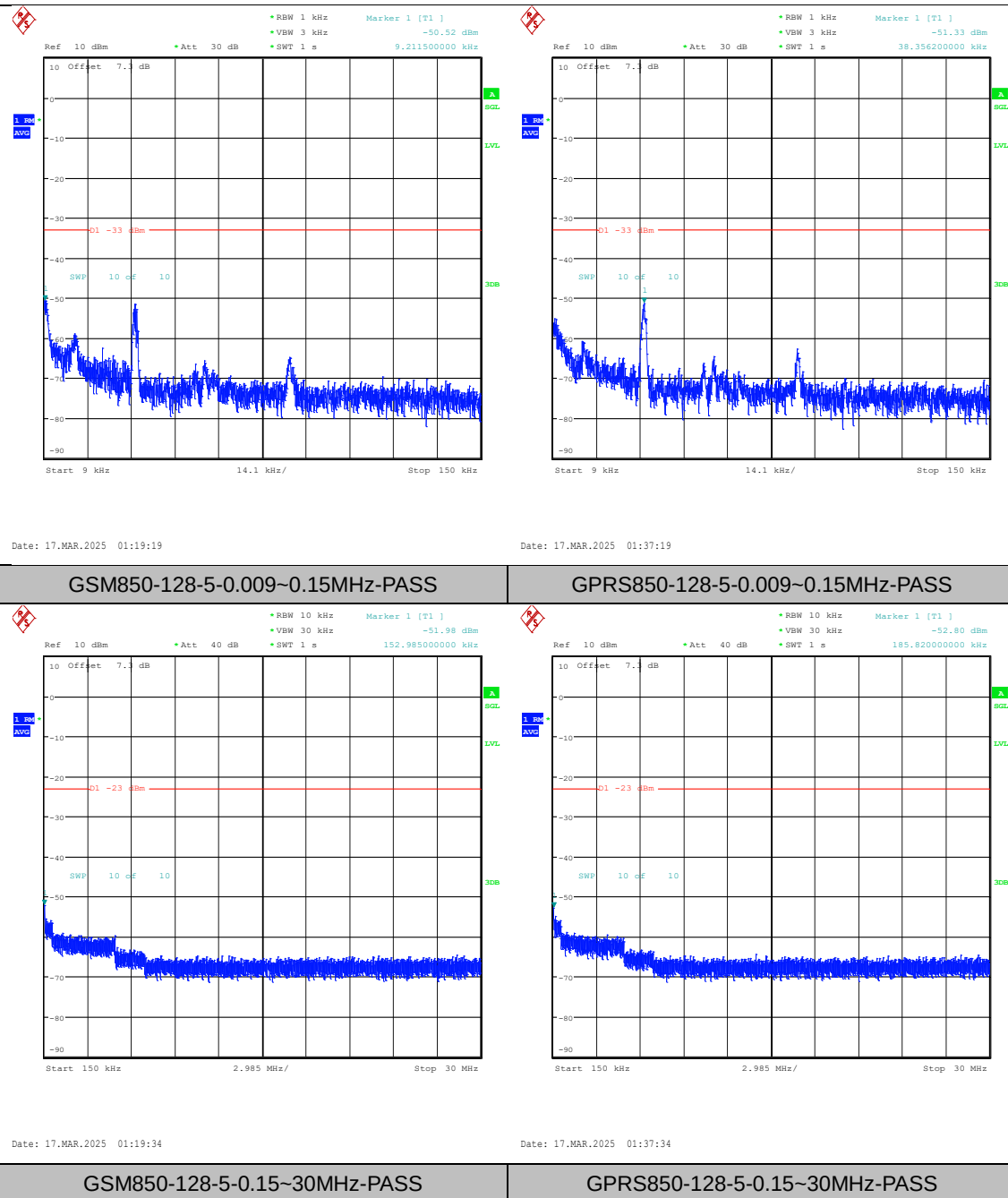


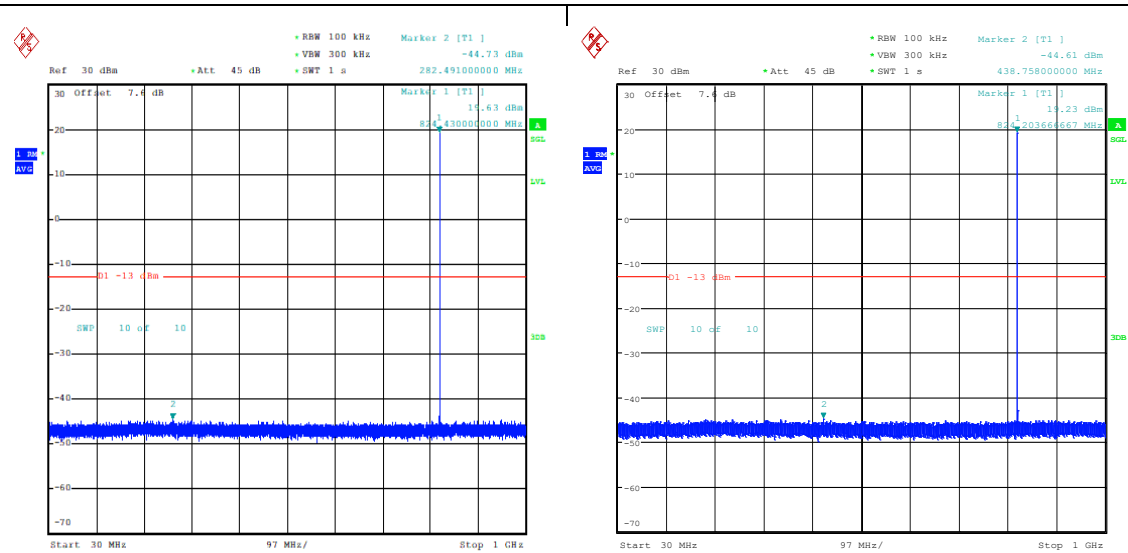
Appendix E: Conducted Spurious Emission

Test Result

Band	Channel	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	0.009~0.15MHz	0.01	-50.52	-33	PASS
GPRS850	128	0.009~0.15MHz	0.04	-51.33	-33	PASS
GSM850	128	0.15~30MHz	0.15	-51.98	-23	PASS
GPRS850	128	0.15~30MHz	0.19	-52.8	-23	PASS
GSM850	128	30~1000MHz	282.49	-44.73	-13	PASS
GPRS850	128	30~1000MHz	438.76	-44.61	-13	PASS
GSM850	128	1000~10000MHz	1648.3	-31.39	-13	PASS
GPRS850	128	1000~10000MHz	1648.3	-29.55	-13	PASS
GSM850	190	0.009~0.15MHz	0.01	-50.47	-33	PASS
GPRS850	190	0.009~0.15MHz	0.04	-49.65	-33	PASS
GSM850	190	0.15~30MHz	0.15	-51.46	-23	PASS
GPRS850	190	0.15~30MHz	0.19	-52.83	-23	PASS
GSM850	190	30~1000MHz	224.36	-44.7	-13	PASS
GPRS850	190	30~1000MHz	347.38	-44.67	-13	PASS
GSM850	190	1000~10000MHz	1673.2	-29.11	-13	PASS
GPRS850	190	1000~10000MHz	3180.1	-43.69	-13	PASS
GSM850	251	0.009~0.15MHz	0.01	-50.28	-33	PASS
GPRS850	251	0.009~0.15MHz	0.04	-50.56	-33	PASS
GSM850	251	0.15~30MHz	0.16	-51.92	-23	PASS
GPRS850	251	0.15~30MHz	0.18	-52.94	-23	PASS
GSM850	251	30~1000MHz	142.46	-44.79	-13	PASS
GPRS850	251	30~1000MHz	329.89	-44.31	-13	PASS
GSM850	251	1000~10000MHz	1697.5	-32.29	-13	PASS
GPRS850	251	1000~10000MHz	1697.5	-35.08	-13	PASS
EGPRS850	128	0.009~0.15MHz	0.01	-52.93	-33	PASS
EGPRS850	128	0.15~30MHz	0.19	-52.48	-23	PASS
EGPRS850	128	30~1000MHz	241.78	-45.4	-13	PASS
EGPRS850	128	1000~10000MHz	3170.2	-44.95	-13	PASS
EGPRS850	190	0.009~0.15MHz	0.01	-51.9	-33	PASS
EGPRS850	190	0.15~30MHz	0.16	-53.02	-23	PASS
EGPRS850	190	30~1000MHz	223.77	-45.26	-13	PASS
EGPRS850	190	1000~10000MHz	3169.6	-45.94	-13	PASS
EGPRS850	251	0.009~0.15MHz	0.05	-53.67	-33	PASS
EGPRS850	251	0.15~30MHz	0.18	-52.14	-23	PASS
EGPRS850	251	30~1000MHz	632.37	-45.26	-13	PASS
EGPRS850	251	1000~10000MHz	3168.1	-45.37	-13	PASS

Test Graphs



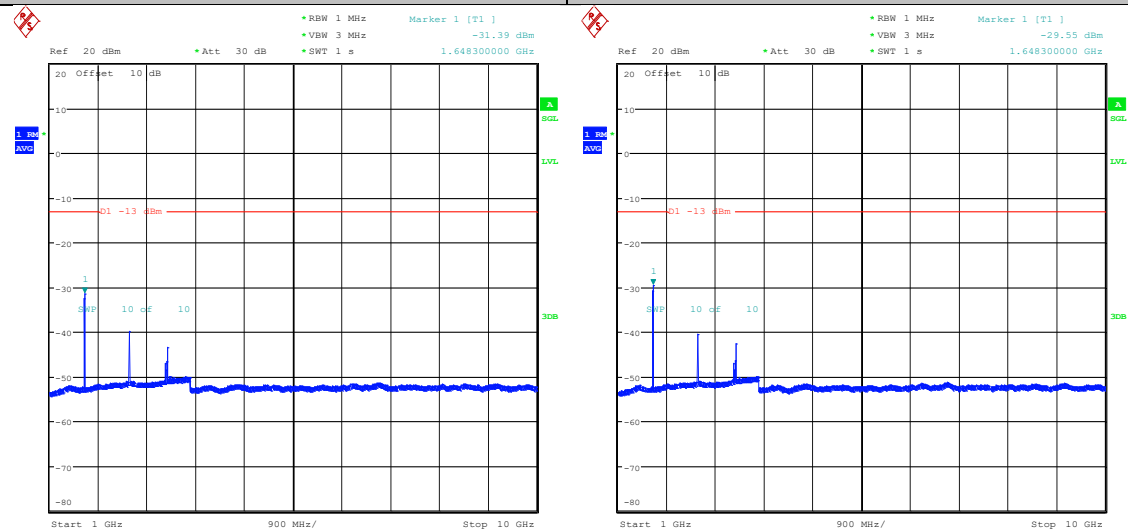


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GSM850-128-5-30~1000MHz-PASS

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

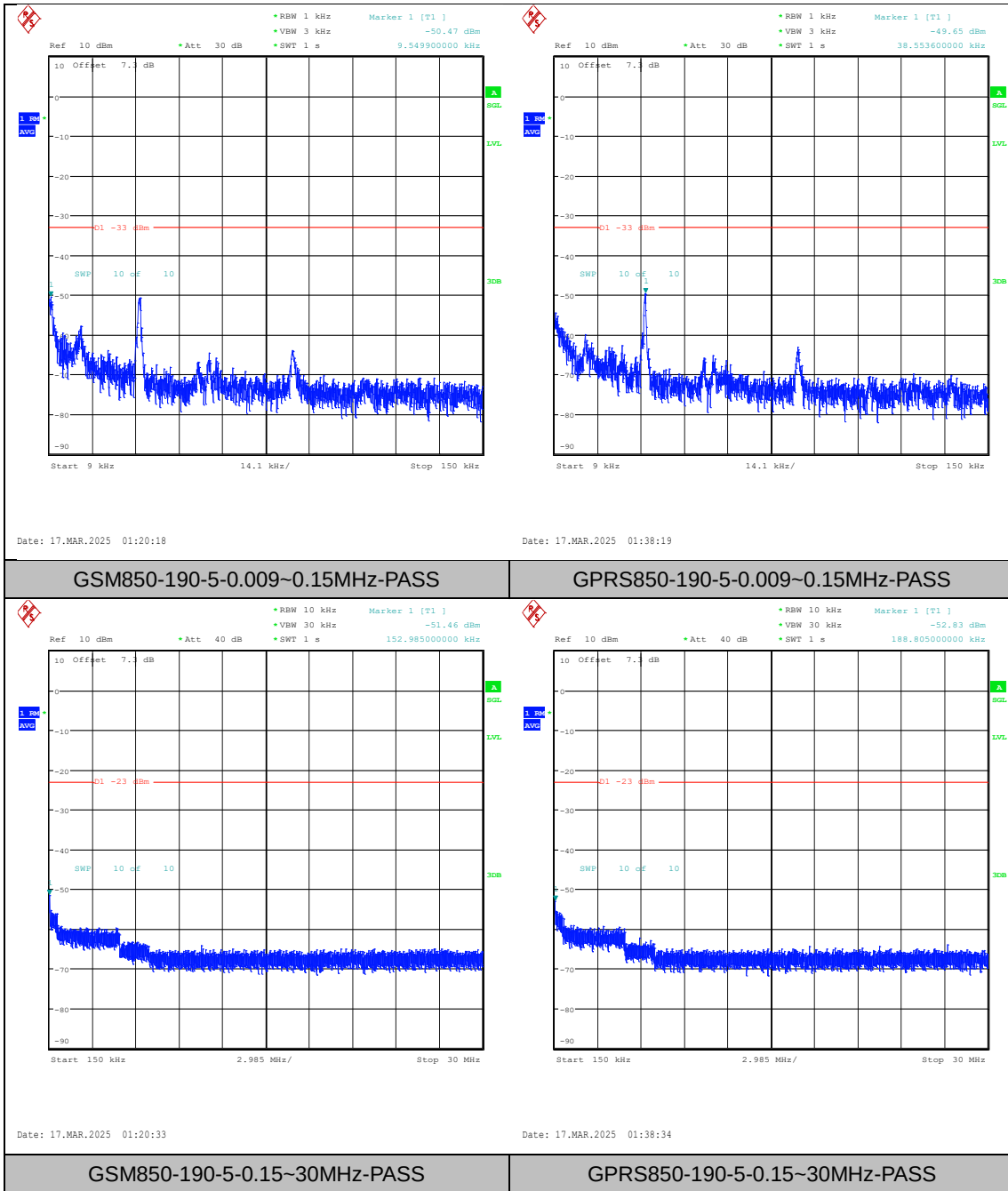


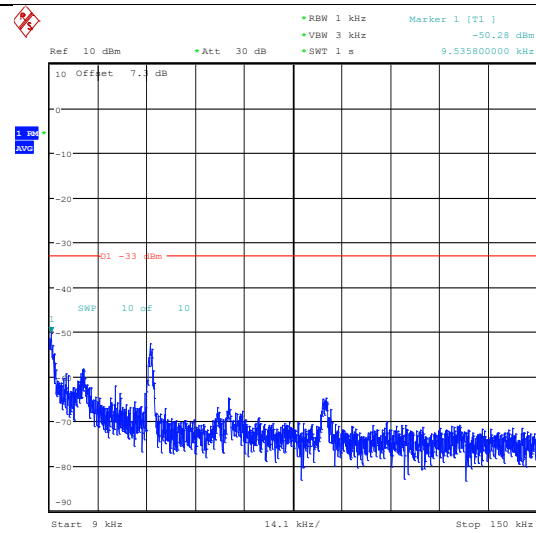
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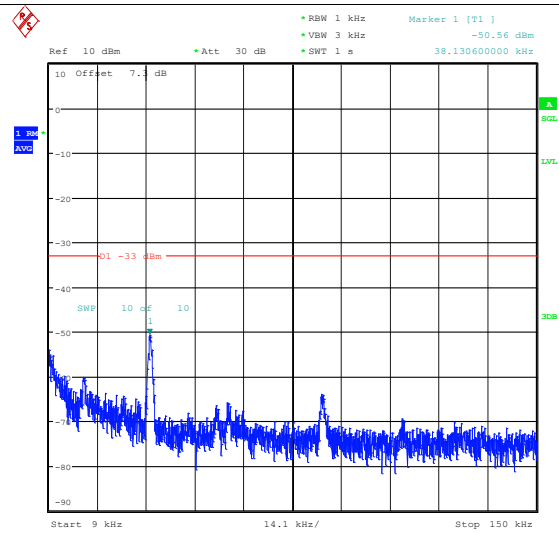
GSM850-128-5-1000~10000MHz-PASS

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





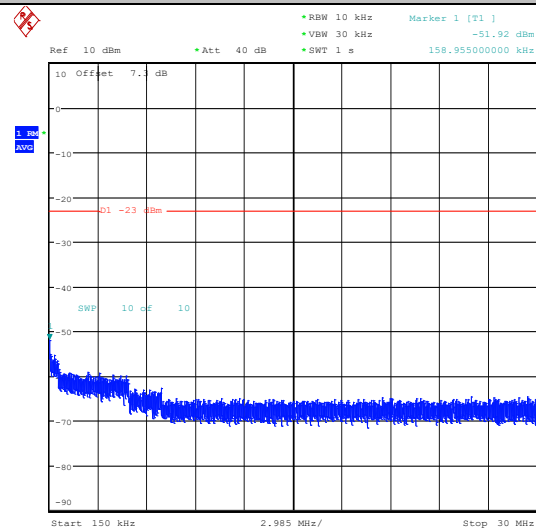
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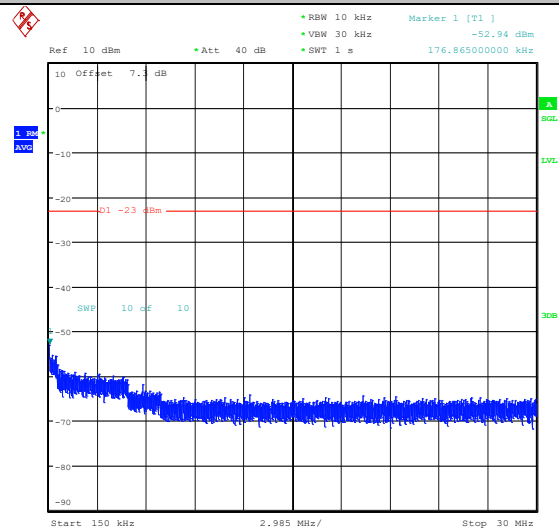
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GSM850-251-5-0.009~0.15MHz-PASS

GPRS850-251-5-0.009~0.15MHz-PASS



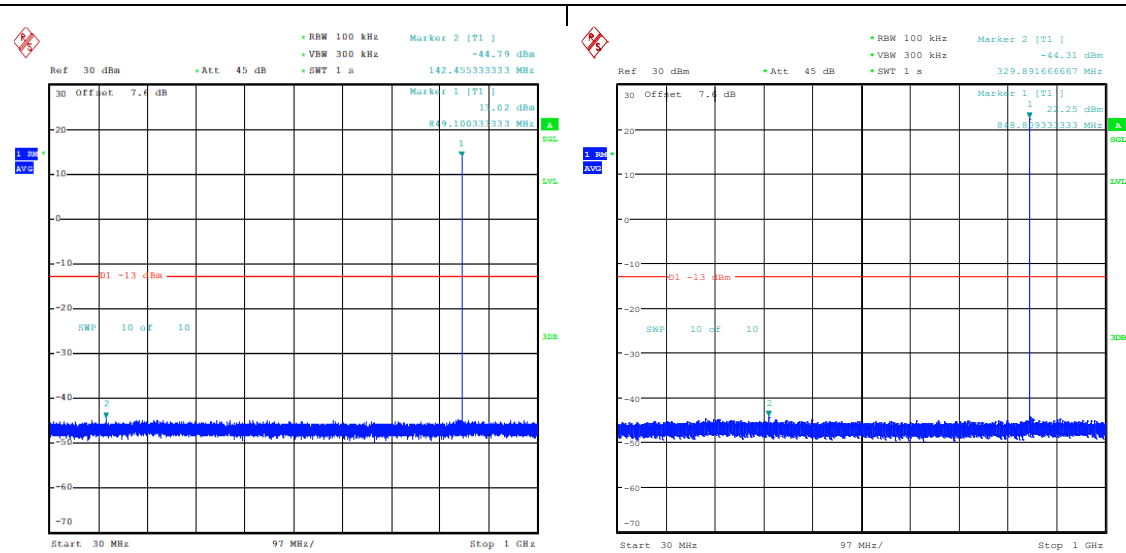
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GSM850-251-5-0.15~30MHz-PASS

GPRS850-251-5-0.15~30MHz-PASS

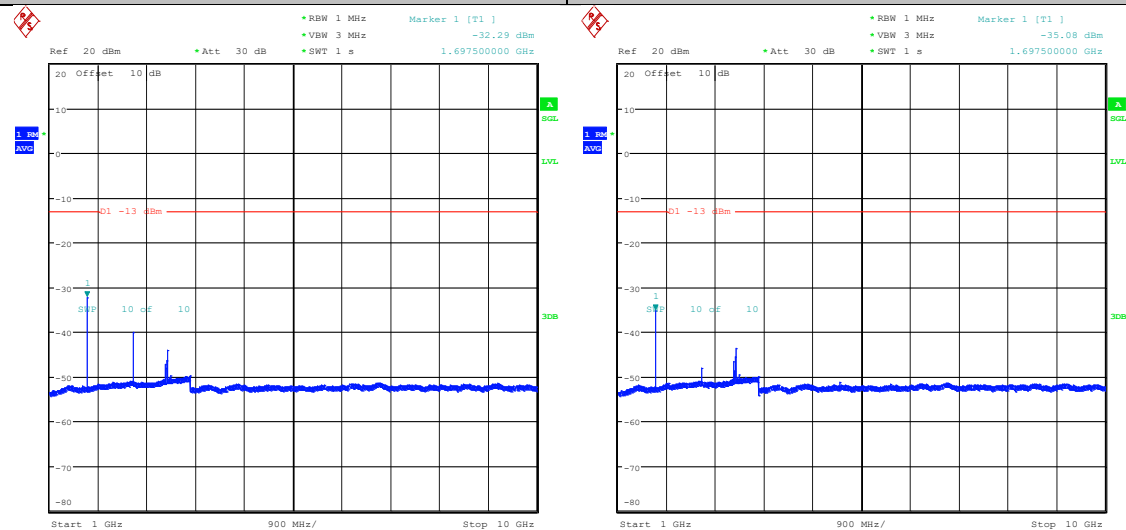


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GSM850-251-5-30~1000MHz-PASS

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

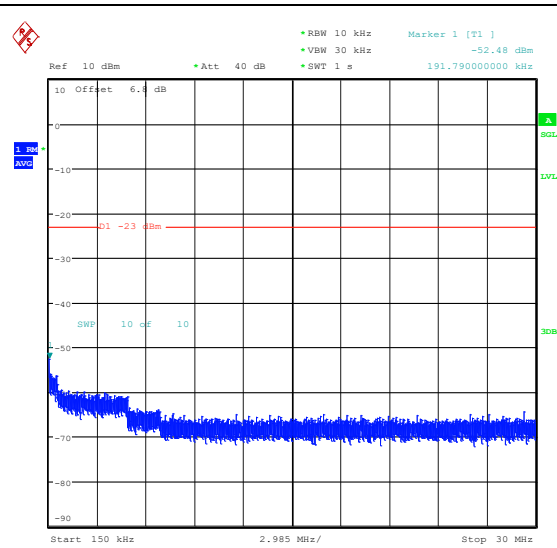
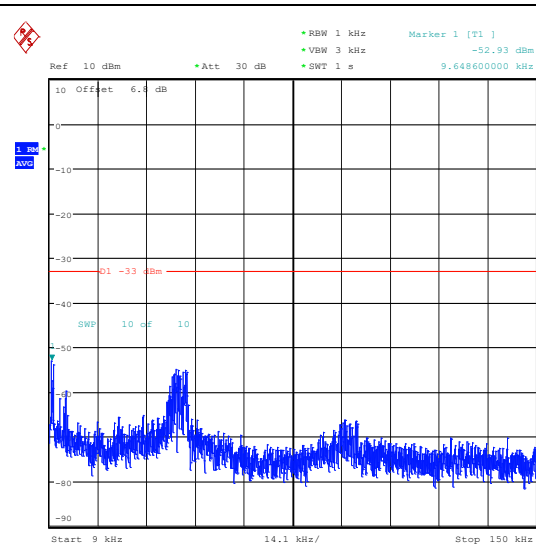


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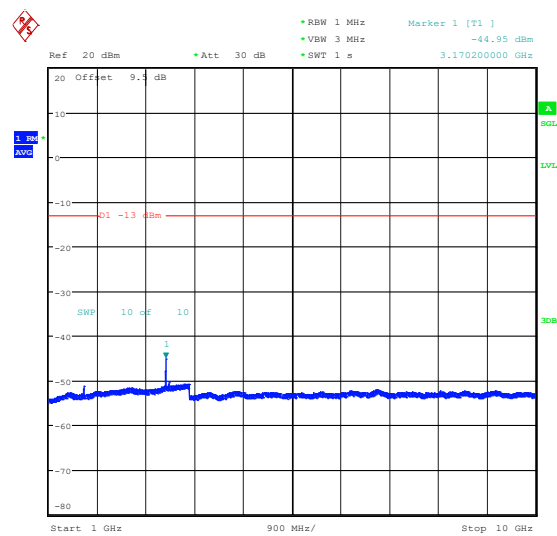
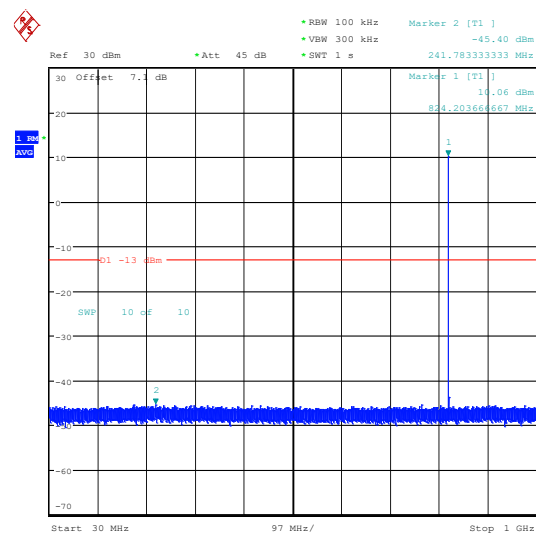
GSM850-251-5-1000~10000MHz-PASS

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



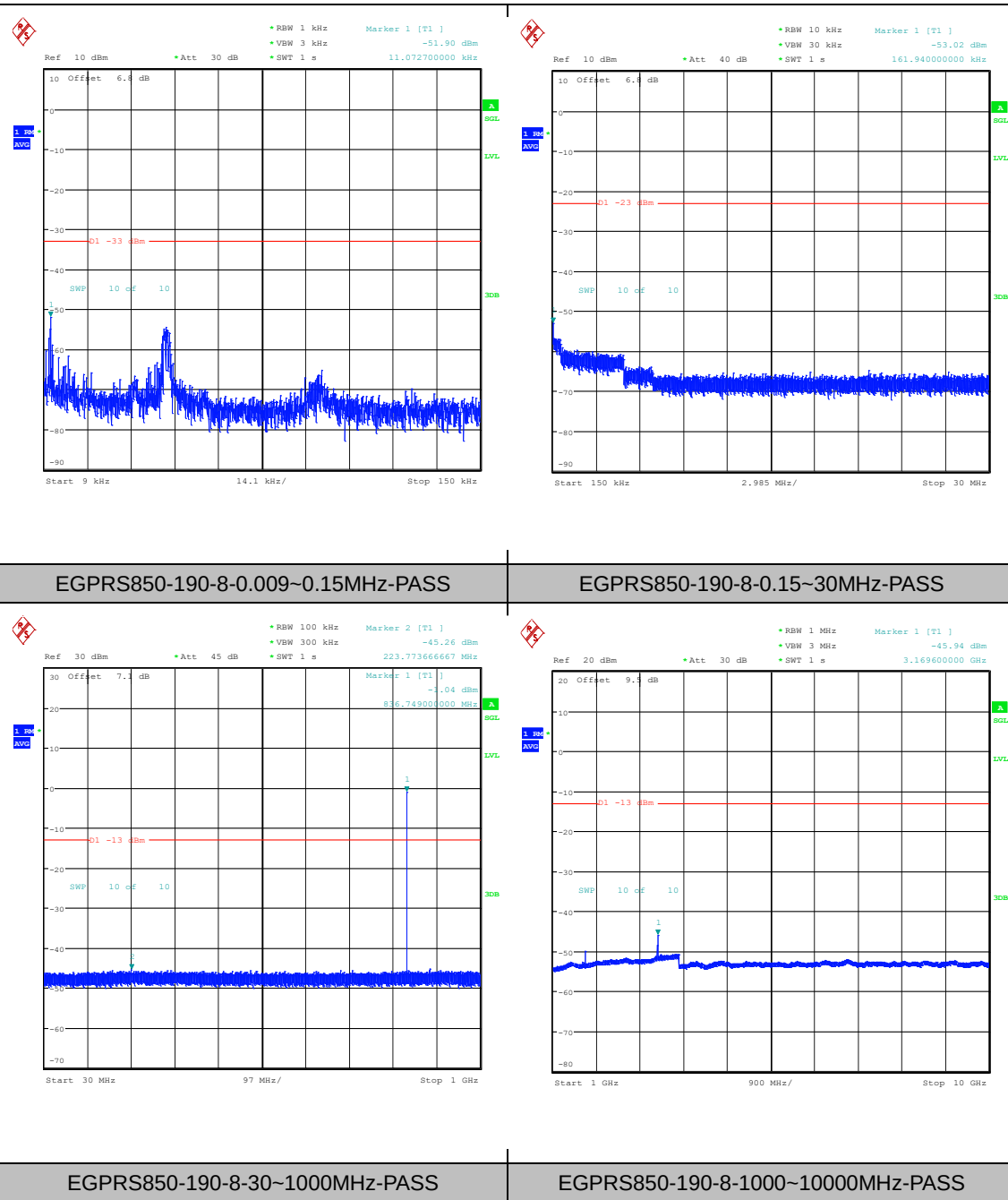
EGPRS850-128-8-0.009~0.15MHz-PASS

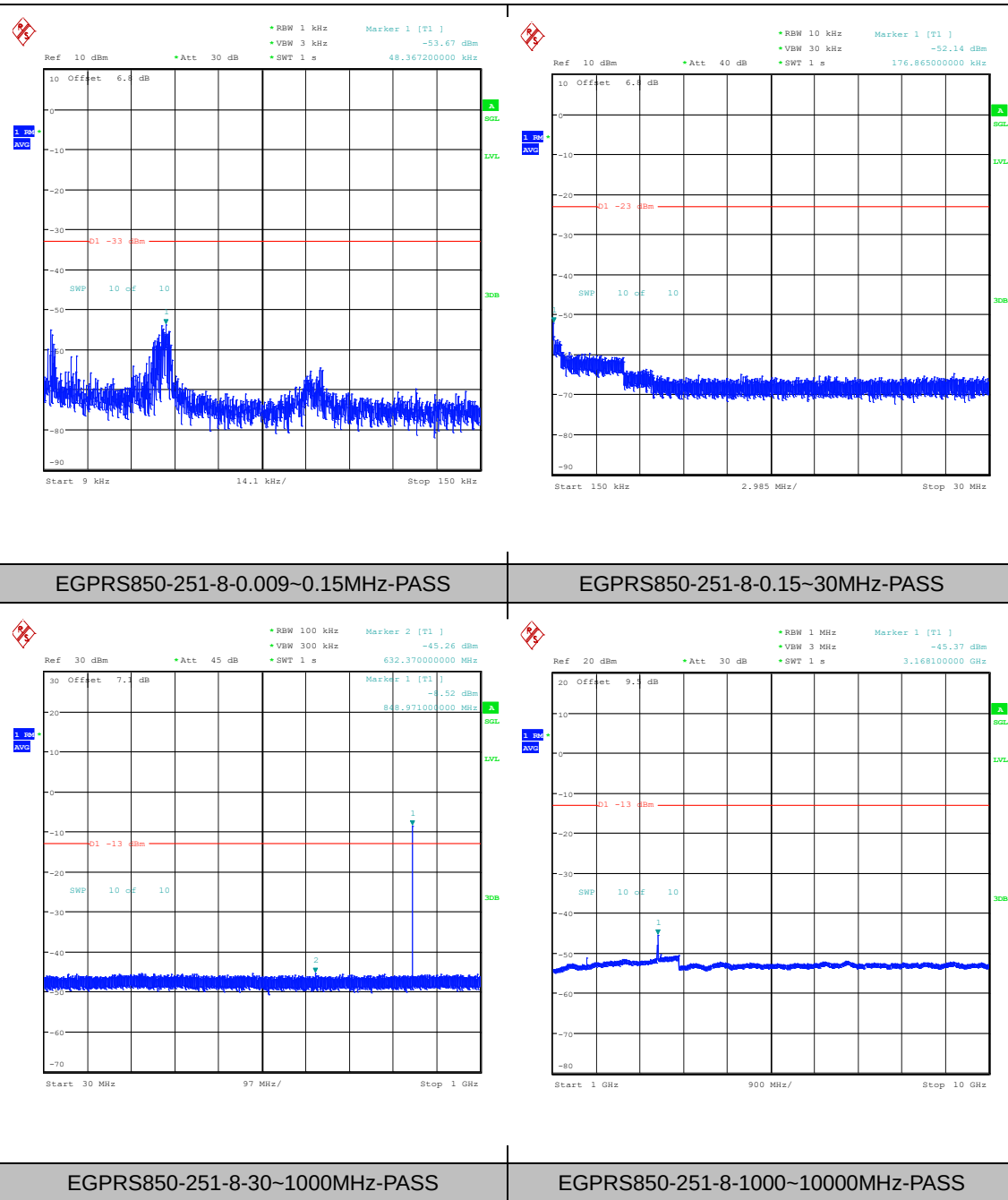
EGPRS850-128-8-0.15~30MHz-PASS



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

EGPRS850-128-8-1000~10000MHz-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	-9.69	-0.011757	±2.5	PASS
GSM850	128	VL	NT	-12.24	-0.014851	±2.5	PASS
GSM850	128	VH	NT	-11.43	-0.013868	±2.5	PASS
GPRS850	128	VN	NT	-12.43	-0.015081	±2.5	PASS
GPRS850	128	VL	NT	-15.24	-0.018491	±2.5	PASS
GPRS850	128	VH	NT	-9.91	-0.012024	±2.5	PASS
GSM850	190	VN	NT	-13.24	-0.015826	±2.5	PASS
GSM850	190	VL	NT	-10.17	-0.012156	±2.5	PASS
GSM850	190	VH	NT	-9.78	-0.011690	±2.5	PASS
GPRS850	190	VN	NT	-13.14	-0.015706	±2.5	PASS
GPRS850	190	VL	NT	-16.05	-0.019185	±2.5	PASS
GPRS850	190	VH	NT	-10.49	-0.012539	±2.5	PASS
GSM850	251	VN	NT	-10.65	-0.012547	±2.5	PASS
GSM850	251	VL	NT	-8.36	-0.009849	±2.5	PASS
GSM850	251	VH	NT	-14.33	-0.016883	±2.5	PASS
GPRS850	251	VN	NT	-10.69	-0.012594	±2.5	PASS
GPRS850	251	VL	NT	-16.37	-0.019286	±2.5	PASS
GPRS850	251	VH	NT	-14.53	-0.017118	±2.5	PASS
EGPRS850	128	VN	NT	11.56	0.014026	±2.5	PASS
EGPRS850	128	VL	NT	9.10	0.011041	±2.5	PASS
EGPRS850	128	VH	NT	10.85	0.013164	±2.5	PASS
EGPRS850	190	VN	NT	2.10	0.002510	±2.5	PASS
EGPRS850	190	VL	NT	4.23	0.005056	±2.5	PASS
EGPRS850	190	VH	NT	4.84	0.005785	±2.5	PASS
EGPRS850	251	VN	NT	2.13	0.002509	±2.5	PASS
EGPRS850	251	VL	NT	6.75	0.007952	±2.5	PASS
EGPRS850	251	VH	NT	1.74	0.002050	±2.5	PASS

Temperature							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	NV	-30	-8.20	-0.009949	±2.5	PASS
GSM850	128	NV	-20	-10.17	-0.012339	±2.5	PASS
GSM850	128	NV	-10	-10.07	-0.012218	±2.5	PASS

GSM850	128	NV	0	-12.59	-0.015275	±2.5	PASS
GSM850	128	NV	10	-10.20	-0.012376	±2.5	PASS
GSM850	128	NV	20	-13.69	-0.016610	±2.5	PASS
GSM850	128	NV	30	-14.46	-0.017544	±2.5	PASS
GSM850	128	NV	40	-13.79	-0.016731	±2.5	PASS
GSM850	128	NV	50	-9.49	-0.011514	±2.5	PASS
GPRS850	128	NV	-30	-10.33	-0.012533	±2.5	PASS
GPRS850	128	NV	-20	-11.82	-0.014341	±2.5	PASS
GPRS850	128	NV	-10	-12.98	-0.015749	±2.5	PASS
GPRS850	128	NV	0	-10.82	-0.013128	±2.5	PASS
GPRS850	128	NV	10	-10.43	-0.012655	±2.5	PASS
GPRS850	128	NV	20	-14.14	-0.017156	±2.5	PASS
GPRS850	128	NV	30	-16.95	-0.020565	±2.5	PASS
GPRS850	128	NV	40	-16.43	-0.019934	±2.5	PASS
GPRS850	128	NV	50	-18.89	-0.022919	±2.5	PASS
GSM850	190	NV	-30	-8.85	-0.010579	±2.5	PASS
GSM850	190	NV	-20	-13.30	-0.015898	±2.5	PASS
GSM850	190	NV	-10	-9.59	-0.011463	±2.5	PASS
GSM850	190	NV	0	-15.17	-0.018133	±2.5	PASS
GSM850	190	NV	10	-10.43	-0.012467	±2.5	PASS
GSM850	190	NV	20	-11.27	-0.013471	±2.5	PASS
GSM850	190	NV	30	-9.30	-0.011116	±2.5	PASS
GSM850	190	NV	40	-10.82	-0.012933	±2.5	PASS
GSM850	190	NV	50	-10.62	-0.012694	±2.5	PASS
GPRS850	190	NV	-30	-15.53	-0.018563	±2.5	PASS
GPRS850	190	NV	-20	-10.78	-0.012885	±2.5	PASS
GPRS850	190	NV	-10	-12.17	-0.014547	±2.5	PASS
GPRS850	190	NV	0	-12.20	-0.014583	±2.5	PASS
GPRS850	190	NV	10	-13.66	-0.016328	±2.5	PASS
GPRS850	190	NV	20	-11.69	-0.013973	±2.5	PASS
GPRS850	190	NV	30	-9.59	-0.011463	±2.5	PASS
GPRS850	190	NV	40	-17.43	-0.020834	±2.5	PASS
GPRS850	190	NV	50	-16.56	-0.019794	±2.5	PASS
GSM850	251	NV	-30	-8.30	-0.009779	±2.5	PASS
GSM850	251	NV	-20	-10.82	-0.012747	±2.5	PASS
GSM850	251	NV	-10	-6.97	-0.008212	±2.5	PASS
GSM850	251	NV	0	-10.78	-0.012700	±2.5	PASS
GSM850	251	NV	10	-12.27	-0.014456	±2.5	PASS
GSM850	251	NV	20	-11.04	-0.013007	±2.5	PASS
GSM850	251	NV	30	-13.59	-0.016011	±2.5	PASS
GSM850	251	NV	40	-12.95	-0.015257	±2.5	PASS

GSM850	251	NV	50	-10.75	-0.012665	±2.5	PASS
GPRS850	251	NV	-30	-10.56	-0.012441	±2.5	PASS
GPRS850	251	NV	-20	-10.72	-0.012630	±2.5	PASS
GPRS850	251	NV	-10	-12.69	-0.014951	±2.5	PASS
GPRS850	251	NV	0	-13.82	-0.016282	±2.5	PASS
GPRS850	251	NV	10	-13.75	-0.016199	±2.5	PASS
GPRS850	251	NV	20	-11.91	-0.014032	±2.5	PASS
GPRS850	251	NV	30	-11.33	-0.013348	±2.5	PASS
GPRS850	251	NV	40	-12.69	-0.014951	±2.5	PASS
GPRS850	251	NV	50	-13.27	-0.015634	±2.5	PASS
EGPRS850	128	NV	-30	7.04	0.008542	±2.5	PASS
EGPRS850	128	NV	-20	9.85	0.011951	±2.5	PASS
EGPRS850	128	NV	-10	7.88	0.009561	±2.5	PASS
EGPRS850	128	NV	0	7.72	0.009367	±2.5	PASS
EGPRS850	128	NV	10	5.52	0.006697	±2.5	PASS
EGPRS850	128	NV	20	14.27	0.017314	±2.5	PASS
EGPRS850	128	NV	30	6.81	0.008263	±2.5	PASS
EGPRS850	128	NV	40	4.29	0.005205	±2.5	PASS
EGPRS850	128	NV	50	10.72	0.013007	±2.5	PASS
EGPRS850	190	NV	-30	8.04	0.009610	±2.5	PASS
EGPRS850	190	NV	-20	8.04	0.009610	±2.5	PASS
EGPRS850	190	NV	-10	-0.55	-0.000657	±2.5	PASS
EGPRS850	190	NV	0	6.20	0.007411	±2.5	PASS
EGPRS850	190	NV	10	10.01	0.011965	±2.5	PASS
EGPRS850	190	NV	20	4.62	0.005522	±2.5	PASS
EGPRS850	190	NV	30	0.68	0.000813	±2.5	PASS
EGPRS850	190	NV	40	3.13	0.003741	±2.5	PASS
EGPRS850	190	NV	50	3.36	0.004016	±2.5	PASS
EGPRS850	251	NV	-30	13.43	0.015822	±2.5	PASS
EGPRS850	251	NV	-20	0.94	0.001107	±2.5	PASS
EGPRS850	251	NV	-10	2.55	0.003004	±2.5	PASS
EGPRS850	251	NV	0	2.00	0.002356	±2.5	PASS
EGPRS850	251	NV	10	7.30	0.008600	±2.5	PASS
EGPRS850	251	NV	20	5.13	0.006044	±2.5	PASS
EGPRS850	251	NV	30	2.29	0.002698	±2.5	PASS
EGPRS850	251	NV	40	6.36	0.007493	±2.5	PASS
EGPRS850	251	NV	50	7.23	0.008518	±2.5	PASS

Appendix G: Modulation Characteristics

Test Result

Band	Channel	Result	Verdict
GSM850	128	PASS	PASS
GPRS850	128	PASS	PASS
EGPRS850	128	PASS	PASS
GSM850	190	PASS	PASS
GPRS850	190	PASS	PASS
GSM850	251	PASS	PASS
GPRS850	251	PASS	PASS
EGPRS850	128	PASS	PASS
EGPRS850	190	PASS	PASS
EGPRS850	251	PASS	PASS

Test Graphs

