

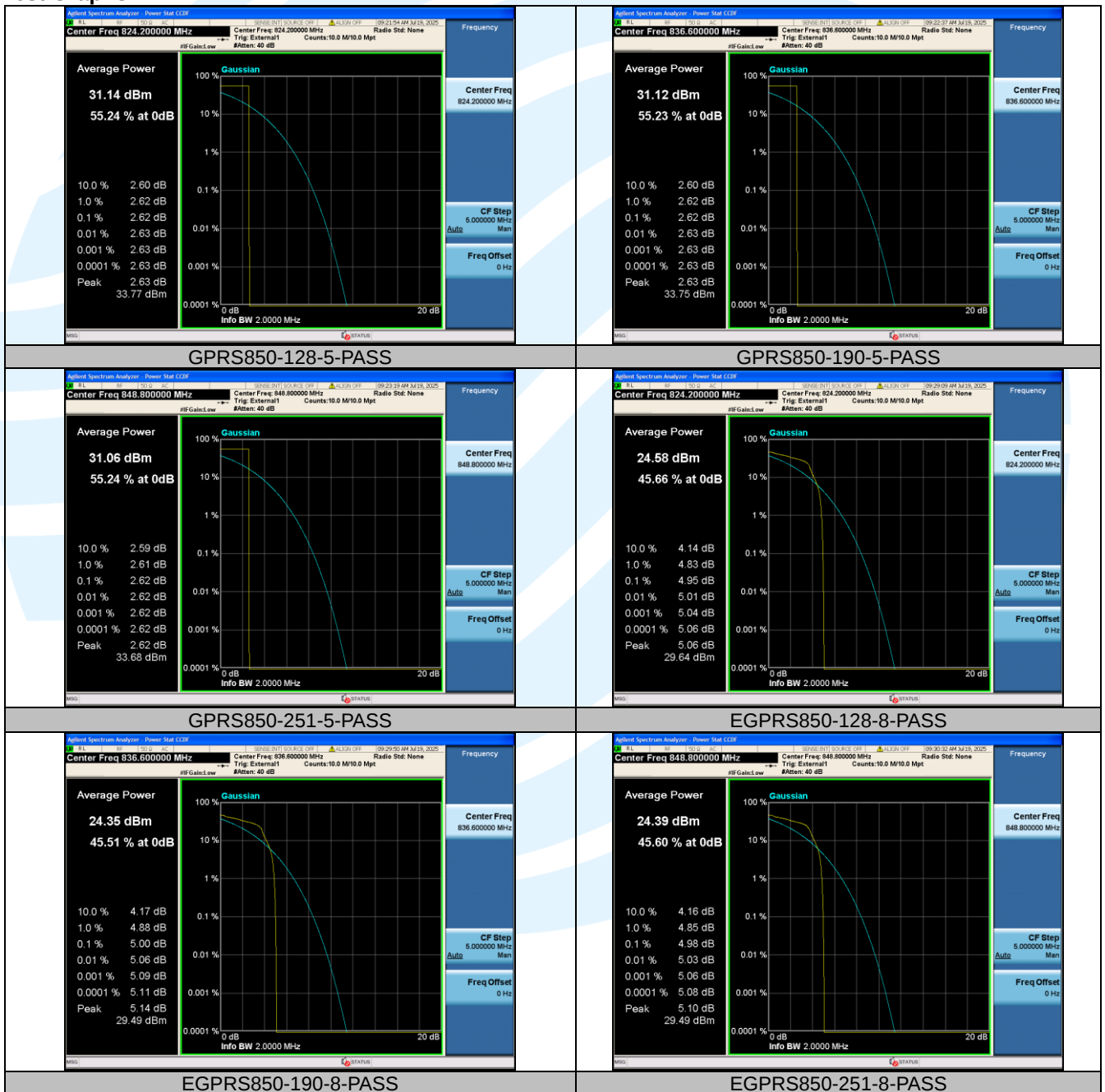
Appendix A GSM 850_RF Test Data

Appendix A1: PEAK-TO-AVERAGE RATIO

Test Result

Band	Channel	Result (dB)	Limit (dB)	Verdict
GPRS850	128	2.62	13	PASS
GPRS850	190	2.62	13	PASS
GPRS850	251	2.62	13	PASS
EGPRS850	128	4.95	13	PASS
EGPRS850	190	5.00	13	PASS
EGPRS850	251	4.98	13	PASS

Test Graphs

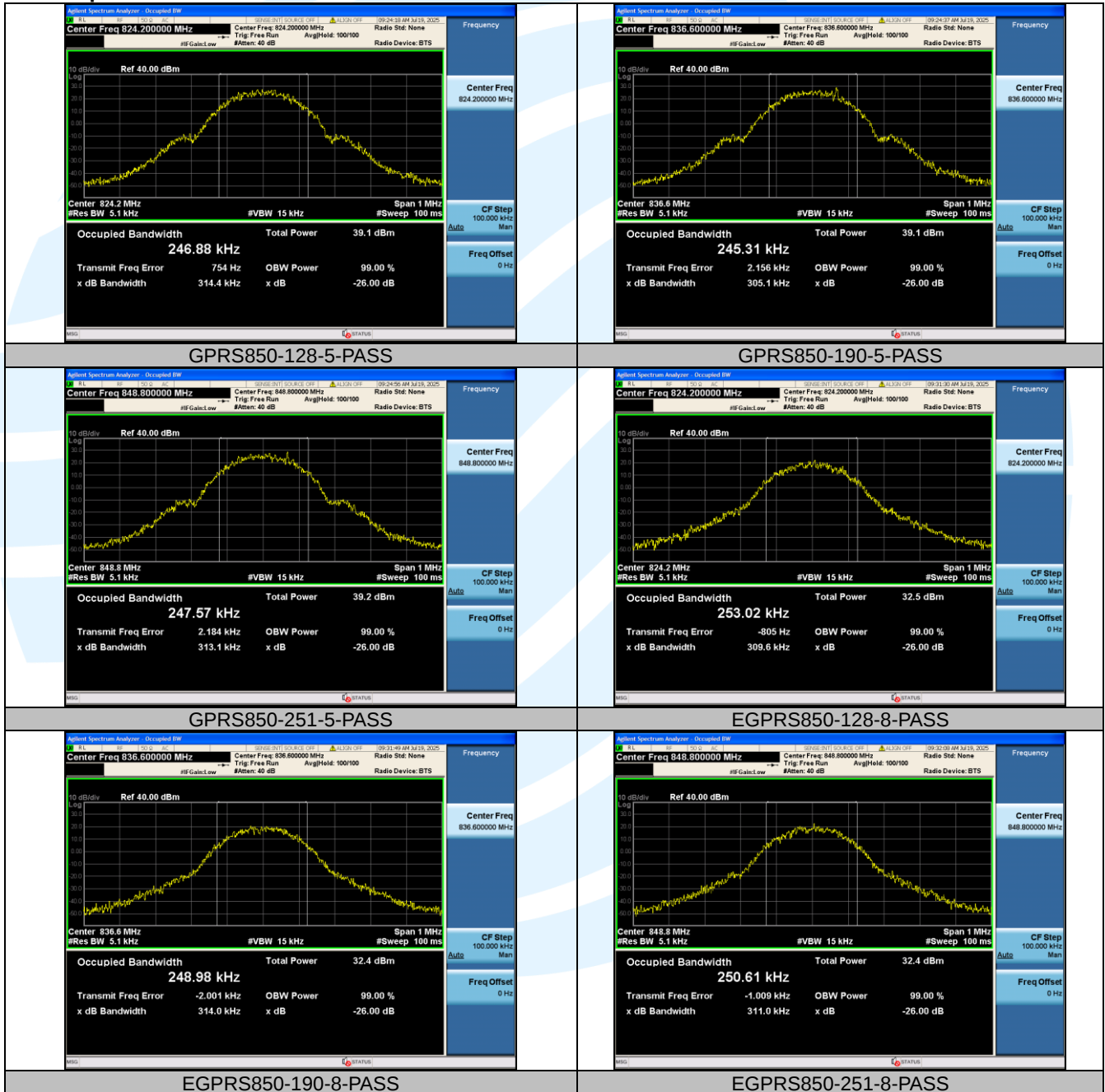


Appendix A2: 99%&26DB BANDWIDTH

Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GPRS850	128	0.24688	0.3144	---	PASS
GPRS850	190	0.24531	0.3051	---	PASS
GPRS850	251	0.24757	0.3131	---	PASS
EGPRS850	128	0.25302	0.3096	---	PASS
EGPRS850	190	0.24898	0.3140	---	PASS
EGPRS850	251	0.25061	0.3110	---	PASS

Test Graphs

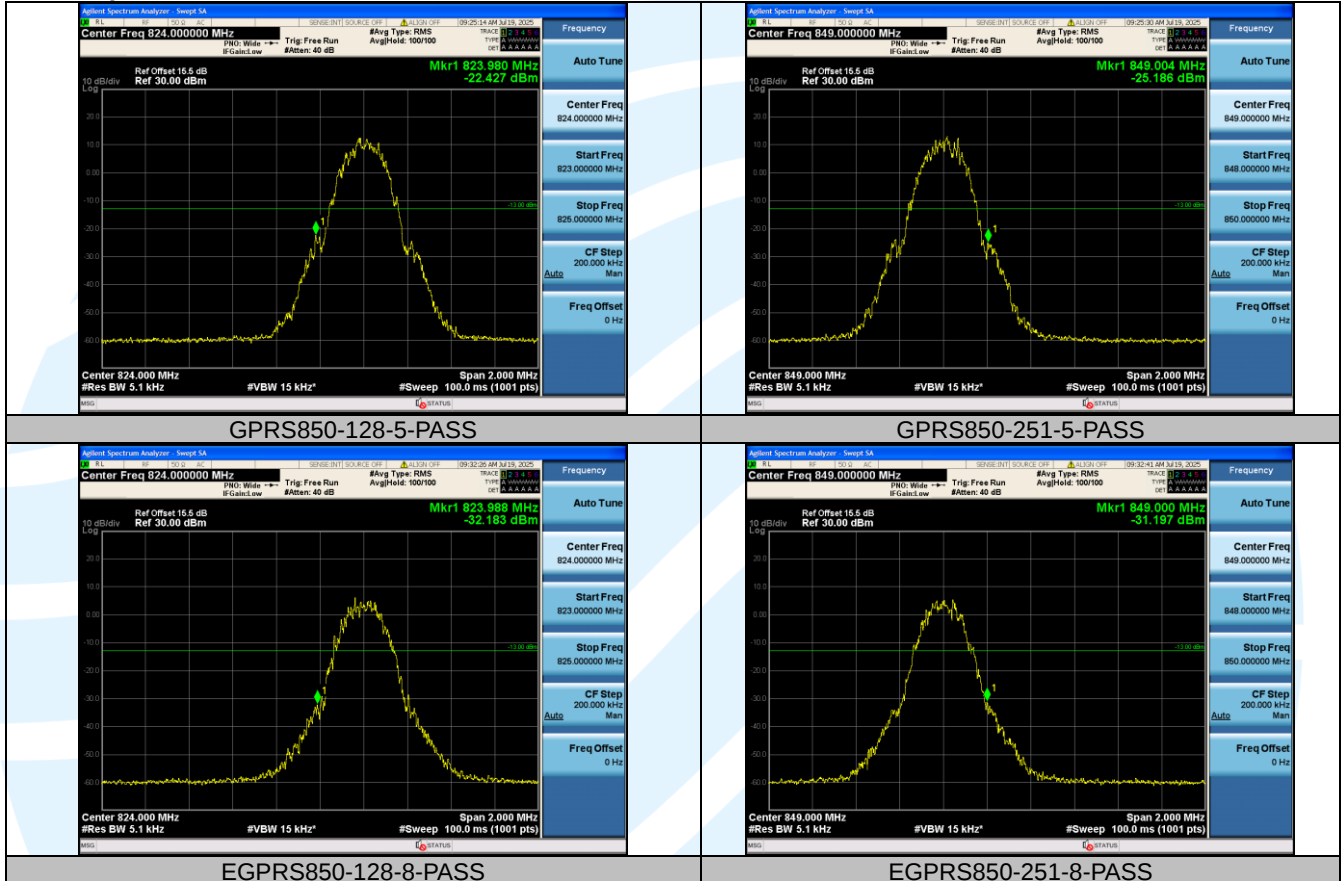


Appendix A3: BAND EDGE AT ANTENNA TERMINALS

Test Result

Band	Channel	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GPRS850	128	823.98	-22.43	-13	PASS
GPRS850	251	849.00	-25.19	-13	PASS
EGPRS850	128	823.99	-32.18	-13	PASS
EGPRS850	251	849.00	-31.20	-13	PASS

Test Graphs

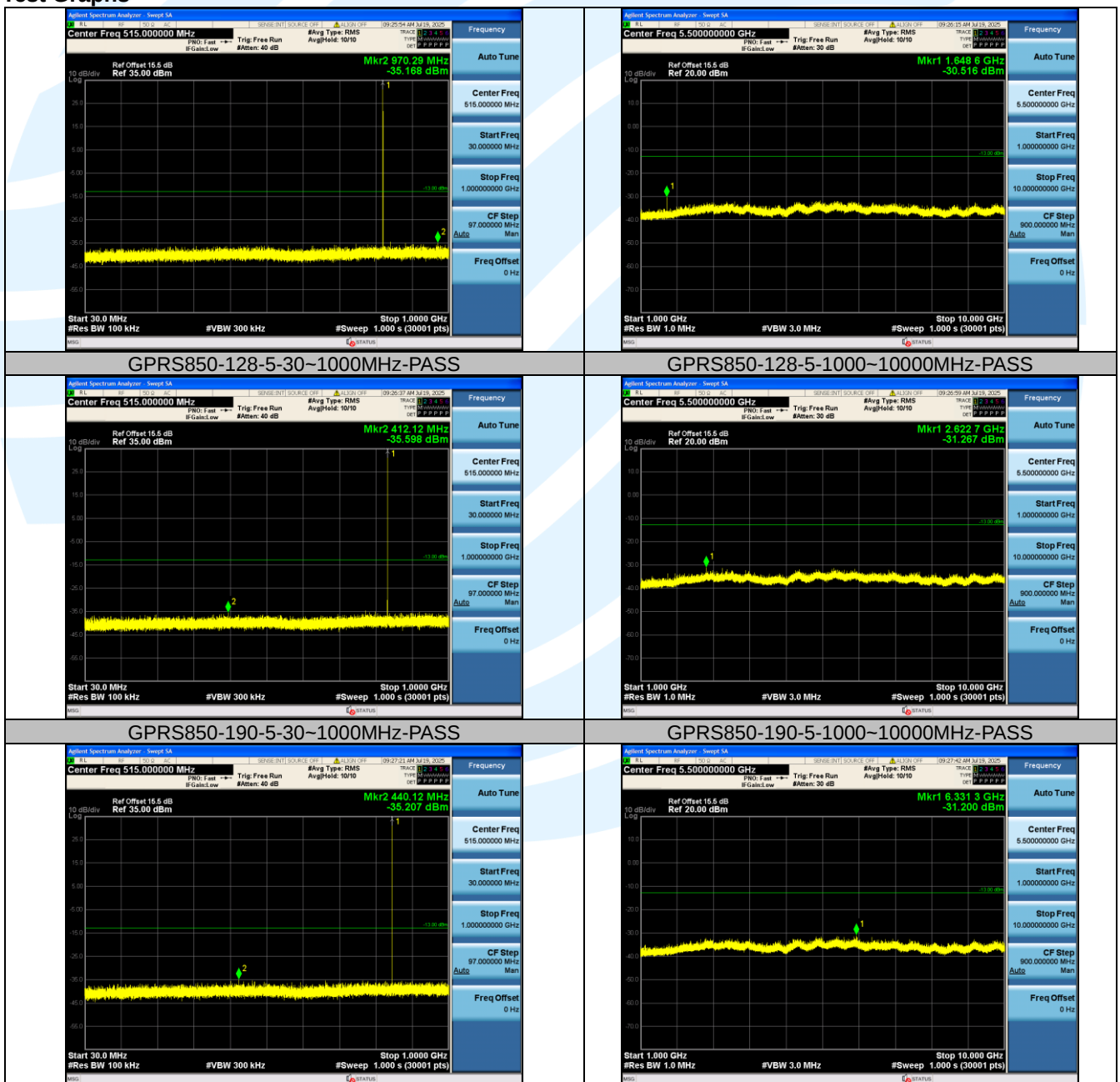


Appendix A4: SPURIOUS EMISSIONS AT ANTENNA TERMINALS

Test Result

Band	Channel	Frequency Range	Max. Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GPRS850	128	30~1000MHz	970.29	-35.17	-13	PASS
GPRS850	128	1000~10000MHz	1648.6	-30.52	-13	PASS
GPRS850	190	30~1000MHz	412.12	-35.6	-13	PASS
GPRS850	190	1000~10000MHz	2622.7	-31.27	-13	PASS
GPRS850	251	30~1000MHz	440.12	-35.21	-13	PASS
GPRS850	251	1000~10000MHz	6331.3	-31.2	-13	PASS
EGPRS850	128	30~1000MHz	929.84	-34.64	-13	PASS
EGPRS850	128	1000~10000MHz	5795.2	-31.47	-13	PASS
EGPRS850	190	30~1000MHz	411.63	-35.67	-13	PASS
EGPRS850	190	1000~10000MHz	6208.9	-31.9	-13	PASS
EGPRS850	251	30~1000MHz	961.01	-35.16	-13	PASS
EGPRS850	251	1000~10000MHz	5492.8	-31.51	-13	PASS

Test Graphs



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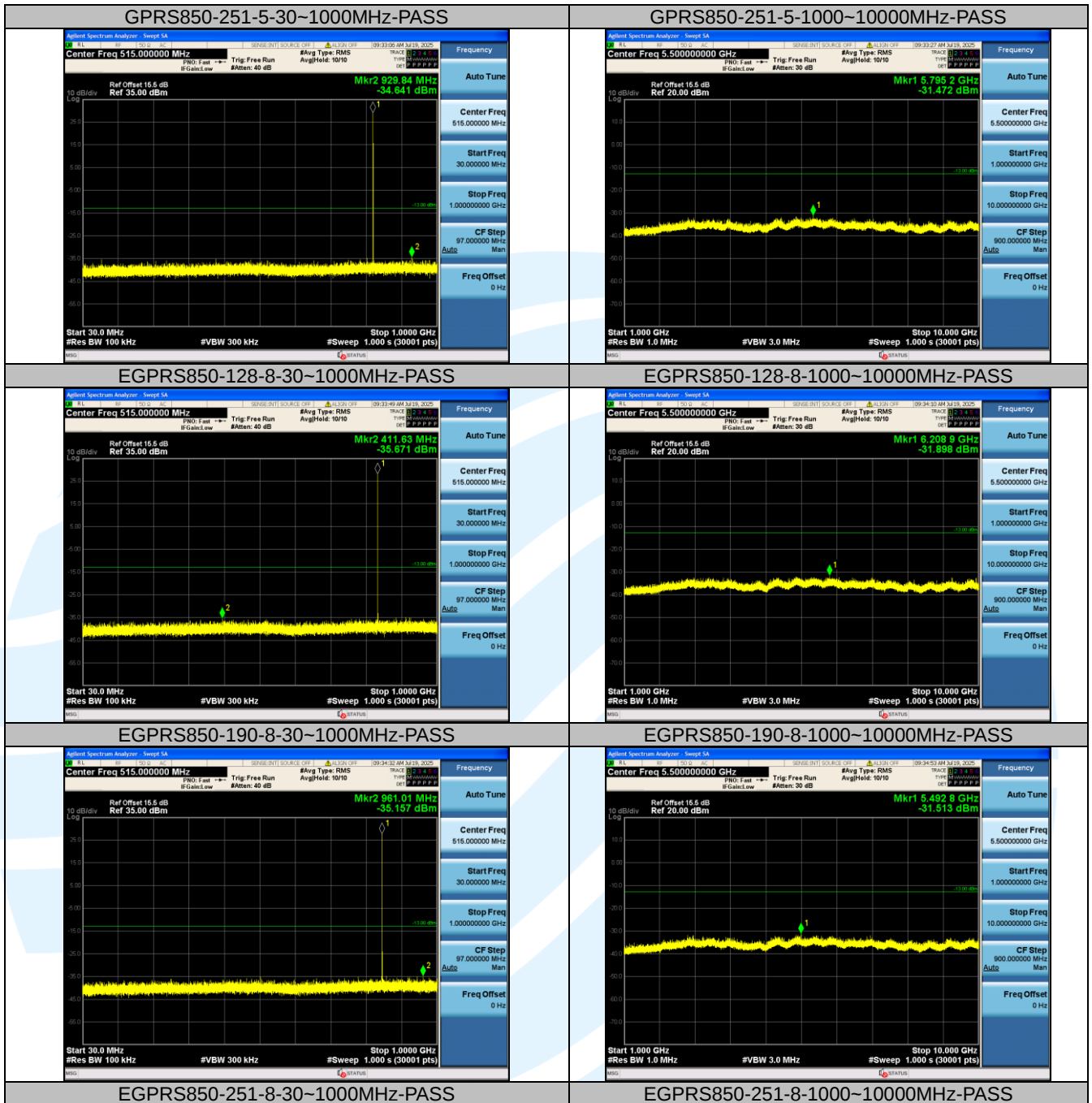
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UTTR-RF-FCC23G-V1.1



Appendix A5: Frequency Stability

Test Result

Voltage							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GPRS850	190	VN	NT	2.26	+0.002701	±2.5	PASS
GPRS850	190	VL	NT	2.94	+0.003514	±2.5	PASS
GPRS850	190	VH	NT	2.81	+0.003359	±2.5	PASS
EGPRS850	190	VN	NT	0.97	+0.001159	±2.5	PASS
EGPRS850	190	VL	NT	2.20	+0.002630	±2.5	PASS
EGPRS850	190	VH	NT	9.23	+0.011033	±2.5	PASS

Temperature							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GPRS850	190	NV	-30	4.68	+0.005594	±2.5	PASS
GPRS850	190	NV	-20	0.97	+0.001159	±2.5	PASS
GPRS850	190	NV	-10	1.65	+0.001972	±2.5	PASS
GPRS850	190	NV	0	2.55	+0.003048	±2.5	PASS
GPRS850	190	NV	10	2.49	+0.002976	±2.5	PASS
GPRS850	190	NV	20	1.39	+0.001661	±2.5	PASS
GPRS850	190	NV	30	1.52	+0.001817	±2.5	PASS
GPRS850	190	NV	40	1.49	+0.001781	±2.5	PASS
GPRS850	190	NV	50	1.49	+0.001781	±2.5	PASS
EGPRS850	190	NV	-30	5.13	+0.006132	±2.5	PASS
EGPRS850	190	NV	-20	5.59	+0.006682	±2.5	PASS
EGPRS850	190	NV	-10	1.61	+0.001924	±2.5	PASS
EGPRS850	190	NV	0	3.00	+0.003586	±2.5	PASS
EGPRS850	190	NV	10	5.39	+0.006443	±2.5	PASS
EGPRS850	190	NV	20	-0.03	-0.000036	±2.5	PASS
EGPRS850	190	NV	30	9.78	+0.011690	±2.5	PASS
EGPRS850	190	NV	40	5.88	+0.007028	±2.5	PASS
EGPRS850	190	NV	50	7.17	+0.008570	±2.5	PASS