

Appendix A: Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Channel	Power(dBm)	ERP/EIRP(dBm)	Limit(dBm)	Verdict
GSM850	128	33.11	30.68	38.45	PASS
GSM850	190	33.37	30.94	38.45	PASS
GSM850	251	33.50	31.07	38.45	PASS

Band	Channel	Up Slot Num	Power(dBm)	ERP/EIRP(dBm)	Limit(dBm)	Verdict
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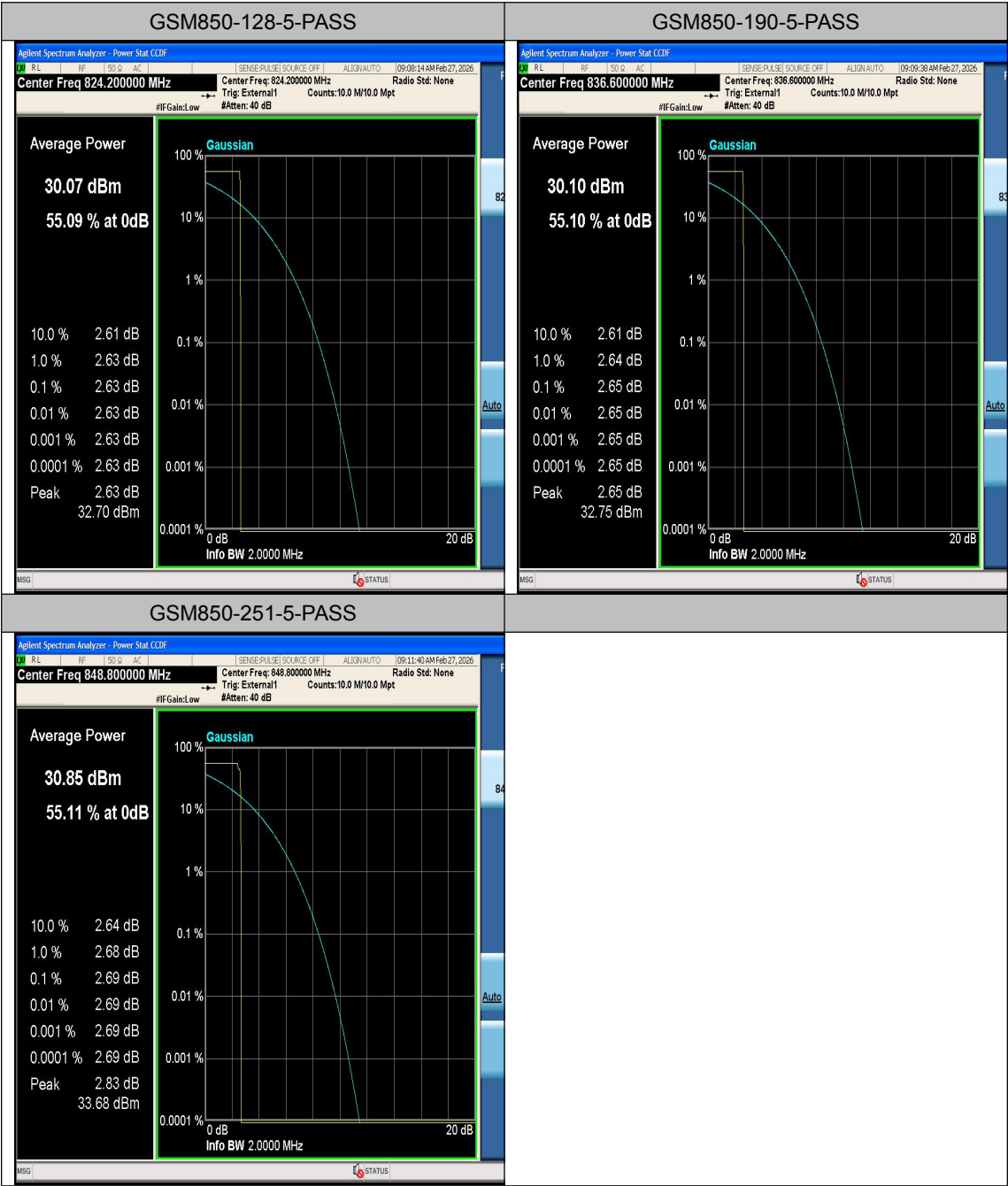
Band	Channel	Up Slot Num	Power(dBm)	ERP/EIRP(dBm)	Limit(dBm)	Verdict
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Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	Result(dB)	Limit(dB)	Verdict
GSM850	128	2.63	13	PASS
GSM850	190	2.65	13	PASS
GSM850	251	2.69	13	PASS

Test Graphs



Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	0.24679	0.3132	---	PASS
GSM850	190	0.24560	0.3103	---	PASS
GSM850	251	0.24809	0.3148	---	PASS

GSM850-128-5-PASS

Agilent Spectrum Analyzer - Occupied BW

Center Freq 824.200000 MHz

Ref 30.00 dBm

Occupied Bandwidth: 246.79 kHz

Total Power: 38.3 dBm

Transmit Freq Error: 425 Hz

OBW Power: 99.00 %

x dB Bandwidth: 313.2 kHz

x dB: -26.00 dB

MSG STATUS

GSM850-190-5-PASS

Agilent Spectrum Analyzer - Occupied BW

Center Freq 836.600000 MHz

Ref 30.00 dBm

Occupied Bandwidth: 245.60 kHz

Total Power: 38.5 dBm

Transmit Freq Error: 49 Hz

OBW Power: 99.00 %

x dB Bandwidth: 310.3 kHz

x dB: -26.00 dB

MSG STATUS

GSM850-251-5-PASS

Agilent Spectrum Analyzer - Occupied BW

Center Freq 848.800000 MHz

Ref 30.00 dBm

Occupied Bandwidth: 248.09 kHz

Total Power: 38.8 dBm

Transmit Freq Error: 1.639 kHz

OBW Power: 99.00 %

x dB Bandwidth: 314.8 kHz

x dB: -26.00 dB

MSG STATUS

Appendix D: Band Edge

Test Result

Band	Channel	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	823.99	-25.17	-13	PASS
GSM850	251	849.02	-22.62	-13	PASS

Test Graphs

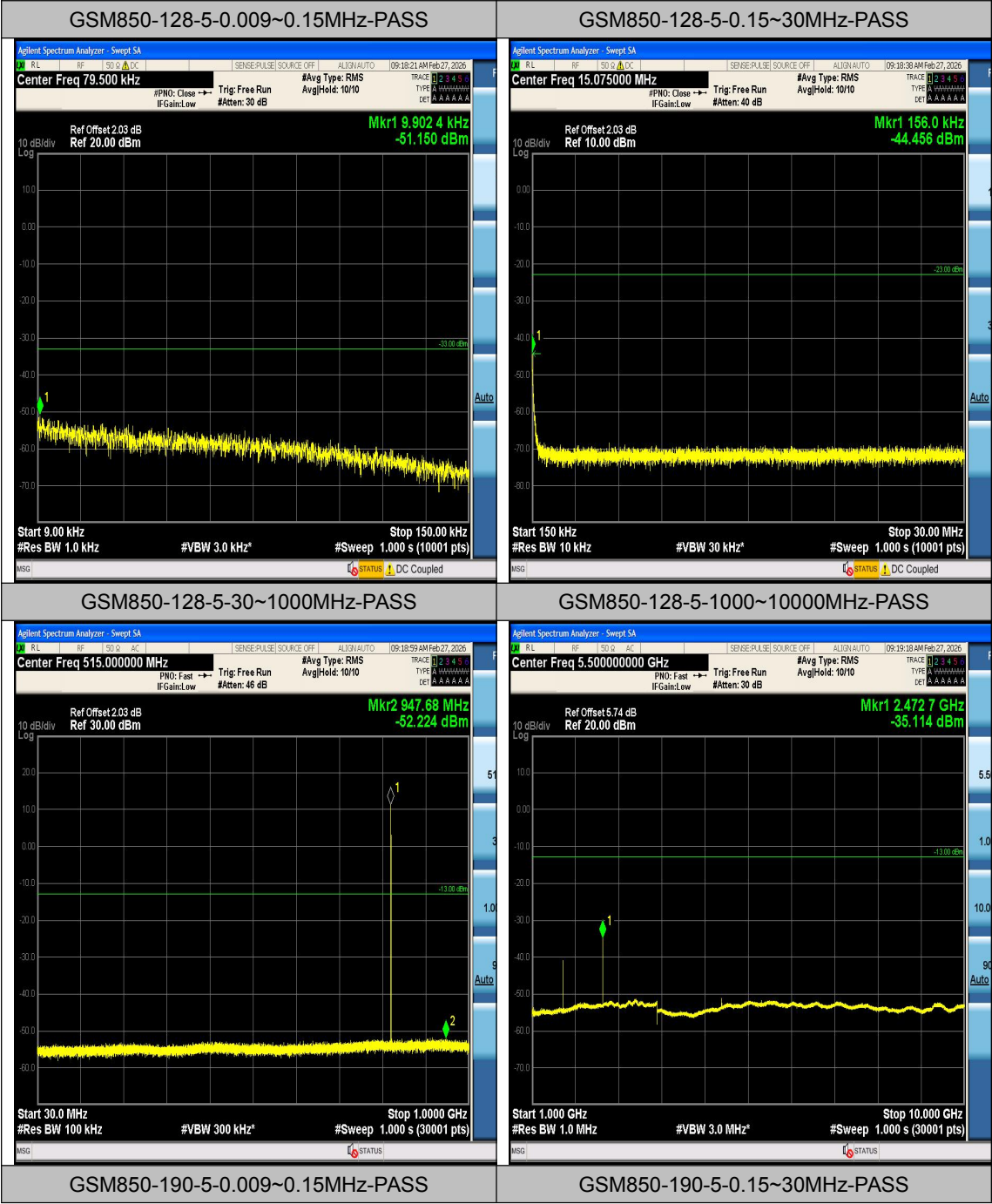


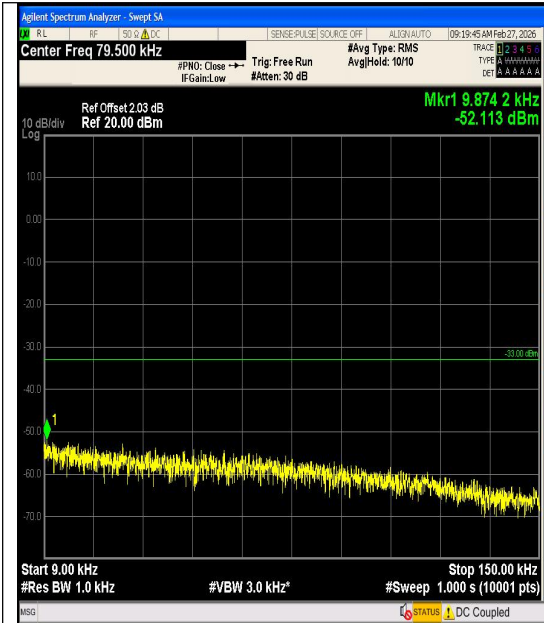
Appendix E: Conducted Spurious Emission

Test Result

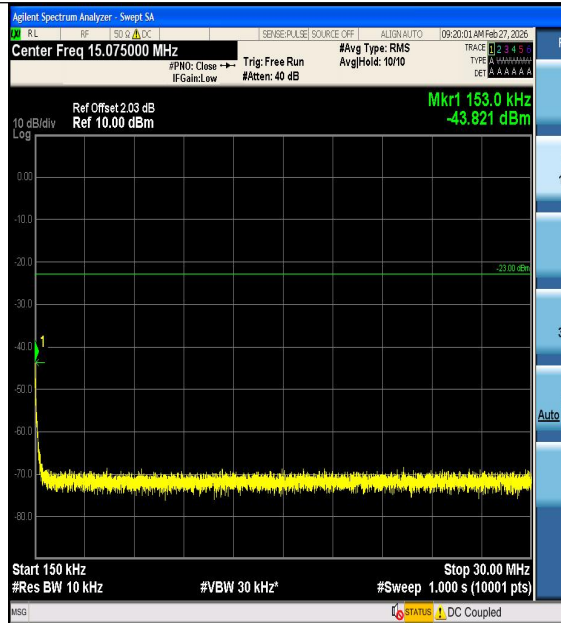
Band	Channel	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	0.009~0.15MHz	0.01	-51.15	-33	PASS
GSM850	128	0.15~30MHz	0.16	-44.46	-23	PASS
GSM850	128	30~1000MHz	947.68	-52.22	-13	PASS
GSM850	128	1000~10000MHz	2472.7	-35.11	-13	PASS
GSM850	190	0.009~0.15MHz	0.01	-52.11	-33	PASS
GSM850	190	0.15~30MHz	0.15	-43.82	-23	PASS
GSM850	190	30~1000MHz	939.02	-51.95	-13	PASS
GSM850	190	1000~10000MHz	2509.9	-34.44	-13	PASS
GSM850	251	0.009~0.15MHz	0.01	-51.99	-33	PASS
GSM850	251	0.15~30MHz	0.15	-45.09	-23	PASS
GSM850	251	30~1000MHz	961.1	-52.19	-13	PASS
GSM850	251	1000~10000MHz	2546.2	-29.58	-13	PASS

Test Graphs

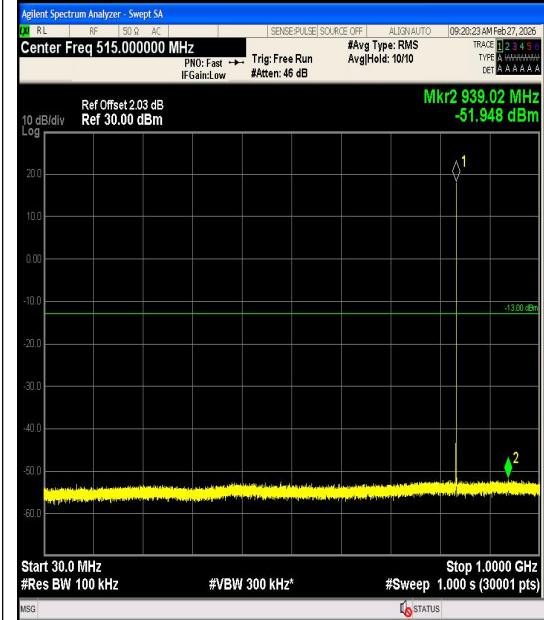




GSM850-190-5-30~1000MHz-PASS



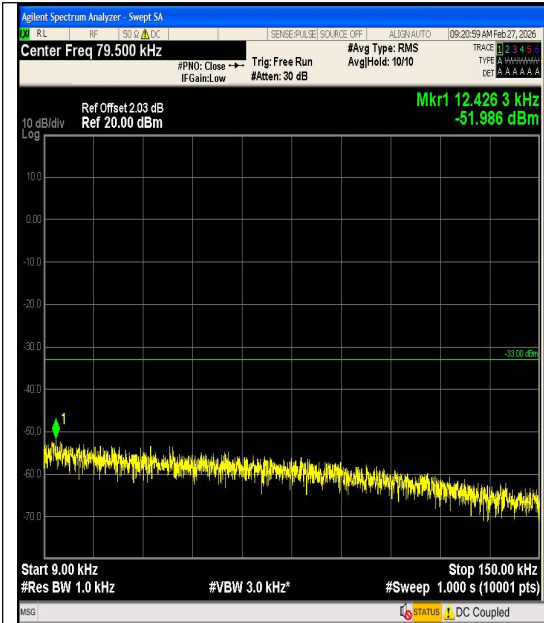
GSM850-190-5-1000~10000MHz-PASS



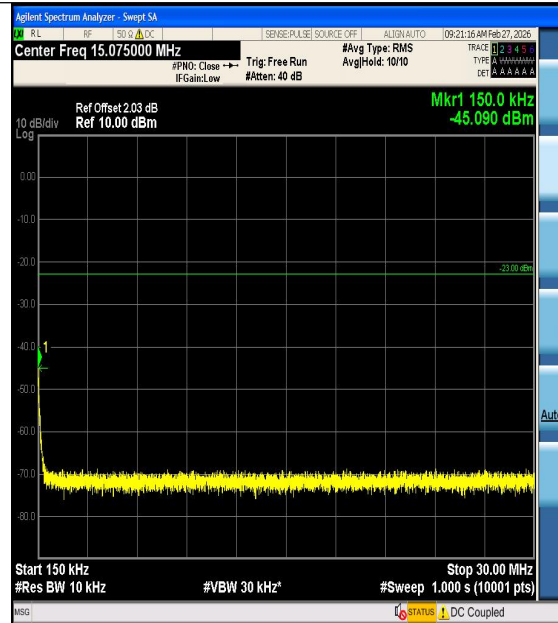
GSM850-251-5-0.009~0.15MHz-PASS



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



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



GSM850-251-5-1000~10000MHz-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	3.68	0.004465	±2.5	PASS
GSM850	128	VL	NT	5.20	0.006309	±2.5	PASS
GSM850	128	VH	NT	2.74	0.003324	±2.5	PASS
GSM850	190	VN	NT	3.33	0.003980	±2.5	PASS
GSM850	190	VL	NT	-0.84	-0.001004	±2.5	PASS
GSM850	190	VH	NT	0.74	0.000885	±2.5	PASS
GSM850	251	VN	NT	4.78	0.005631	±2.5	PASS
GSM850	251	VL	NT	3.58	0.004218	±2.5	PASS
GSM850	251	VH	NT	6.17	0.007269	±2.5	PASS

Temperature							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	NV	-30	2.49	0.003021	±2.5	PASS
GSM850	128	NV	-20	6.55	0.007947	±2.5	PASS
GSM850	128	NV	-10	3.81	0.004623	±2.5	PASS
GSM850	128	NV	0	2.91	0.003531	±2.5	PASS
GSM850	128	NV	10	5.04	0.006115	±2.5	PASS
GSM850	128	NV	20	3.97	0.004817	±2.5	PASS
GSM850	128	NV	30	4.97	0.006030	±2.5	PASS
GSM850	128	NV	40	5.88	0.007134	±2.5	PASS
GSM850	128	NV	50	3.42	0.004149	±2.5	PASS
GSM850	190	NV	-30	3.81	0.004554	±2.5	PASS
GSM850	190	NV	-20	-1.74	-0.002080	±2.5	PASS
GSM850	190	NV	-10	-0.19	-0.000227	±2.5	PASS
GSM850	190	NV	0	0.74	0.000885	±2.5	PASS
GSM850	190	NV	10	-2.32	-0.002773	±2.5	PASS
GSM850	190	NV	20	0.58	0.000693	±2.5	PASS
GSM850	190	NV	30	0.77	0.000920	±2.5	PASS
GSM850	190	NV	40	-2.42	-0.002893	±2.5	PASS
GSM850	190	NV	50	0.23	0.000275	±2.5	PASS
GSM850	251	NV	-30	3.49	0.004112	±2.5	PASS
GSM850	251	NV	-20	4.58	0.005396	±2.5	PASS
GSM850	251	NV	-10	5.20	0.006126	±2.5	PASS

GSM850	251	NV	0	2.97	0.003499	±2.5	PASS
GSM850	251	NV	10	1.94	0.002286	±2.5	PASS
GSM850	251	NV	20	3.78	0.004453	±2.5	PASS
GSM850	251	NV	30	1.81	0.002132	±2.5	PASS
GSM850	251	NV	40	5.10	0.006008	±2.5	PASS
GSM850	251	NV	50	3.97	0.004677	±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

Test Graphs

