

Appendix A: Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Channel	Up Slot Num	Power(dBm)	ANT Gain(dBi)	EIRP(dBm)	Correction(dBi)	ERP(dBm)	Limit(dBm)	Verdict
GPRS850	128	1	30.31	-7.56	22.75	2.15	20.6	38.45	PASS
GPRS850	128	2	30.50	-7.56	22.94	2.15	20.79	38.45	PASS
GPRS850	128	3	29.66	-7.56	22.1	2.15	19.95	38.45	PASS
GPRS850	128	4	28.01	-7.56	20.45	2.15	18.3	38.45	PASS
GPRS850	190	1	30.66	-7.56	23.1	2.15	20.95	38.45	PASS
GPRS850	190	2	30.55	-7.56	22.99	2.15	20.84	38.45	PASS
GPRS850	190	3	30.17	-7.56	22.61	2.15	20.46	38.45	PASS
GPRS850	190	4	28.51	-7.56	20.95	2.15	18.8	38.45	PASS
GPRS850	251	1	30.76	-7.56	23.2	2.15	21.05	38.45	PASS
GPRS850	251	2	30.69	-7.56	23.13	2.15	20.98	38.45	PASS
GPRS850	251	3	30.31	-7.56	22.75	2.15	20.6	38.45	PASS
GPRS850	251	4	28.93	-7.56	21.37	2.15	19.22	38.45	PASS

Band	Channel	Up Slot Num	Power(dBm)	ANT Gain(dBi)	EIRP(dBm)	Correction(dBi)	ERP(dBm)	Limit(dBm)	Verdict
EGPRS850	128	1	24.80	-7.56	17.24	2.15	15.09	38.45	PASS
EGPRS850	128	2	24.56	-7.56	17	2.15	14.85	38.45	PASS
EGPRS850	128	3	23.55	-7.56	15.99	2.15	13.84	38.45	PASS
EGPRS850	128	4	22.05	-7.56	14.49	2.15	12.34	38.45	PASS
EGPRS850	190	1	25.16	-7.56	17.6	2.15	15.45	38.45	PASS
EGPRS850	190	2	24.94	-7.56	17.38	2.15	15.23	38.45	PASS
EGPRS850	190	3	23.89	-7.56	16.33	2.15	14.18	38.45	PASS
EGPRS850	190	4	22.34	-7.56	14.78	2.15	12.63	38.45	PASS
EGPRS850	251	1	25.41	-7.56	17.85	2.15	15.7	38.45	PASS
EGPRS850	251	2	25.27	-7.56	17.71	2.15	15.56	38.45	PASS
EGPRS850	251	3	24.22	-7.56	16.66	2.15	14.51	38.45	PASS
EGPRS850	251	4	22.71	-7.56	15.15	2.15	13	38.45	PASS

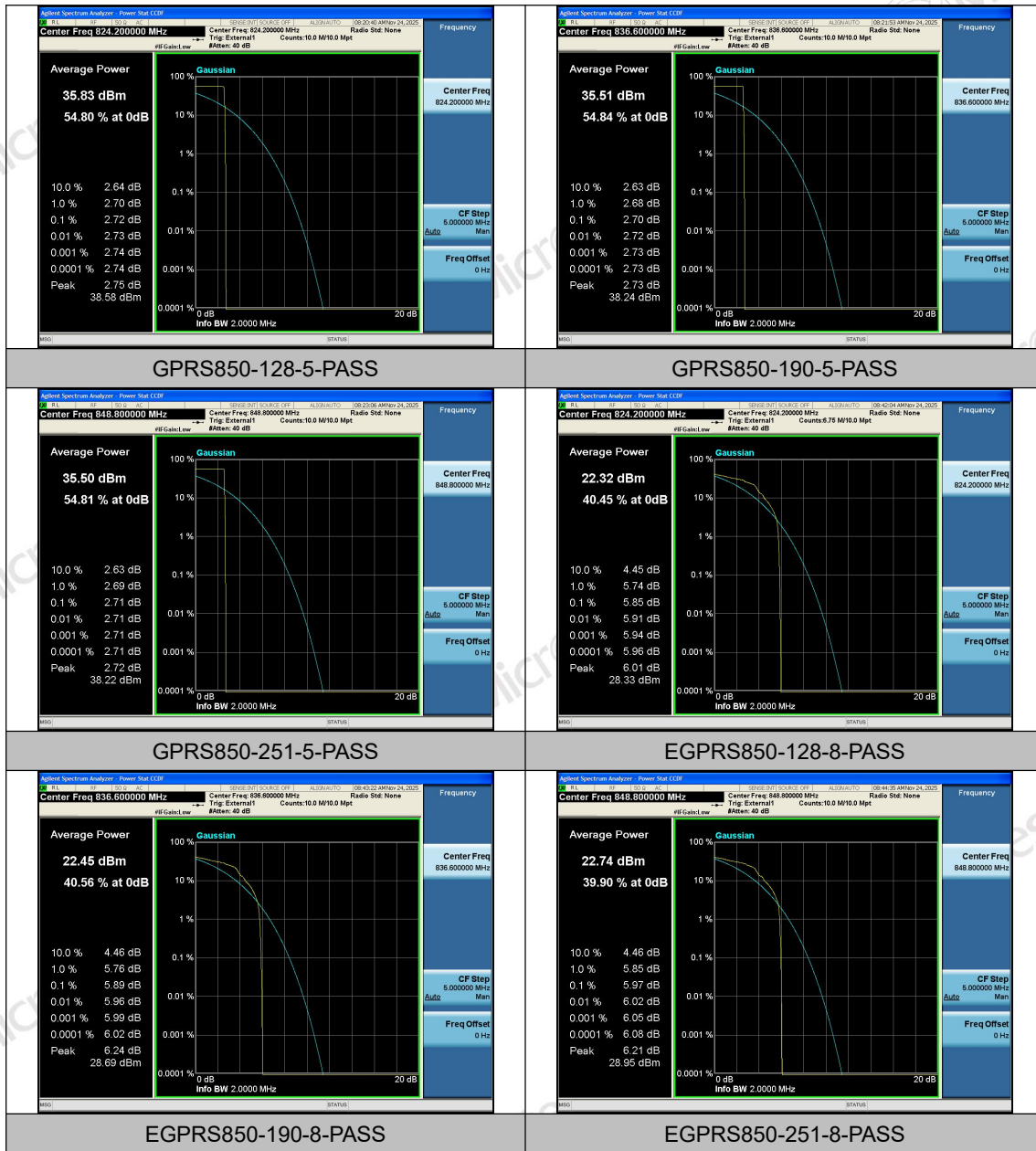
Note: EIRP=Power(dBm)+Antenna gain(dBi); ERP= EIRP-Correction(dBi).

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

Test Result

Band	Channel	Result(dB)	Limit(dB)	Verdict
GPRS850	128	2.72	13	PASS
GPRS850	190	2.70	13	PASS
GPRS850	251	2.71	13	PASS
EGPRS850	128	5.85	13	PASS
EGPRS850	190	5.89	13	PASS
EGPRS850	251	5.97	13	PASS

Test Graphs

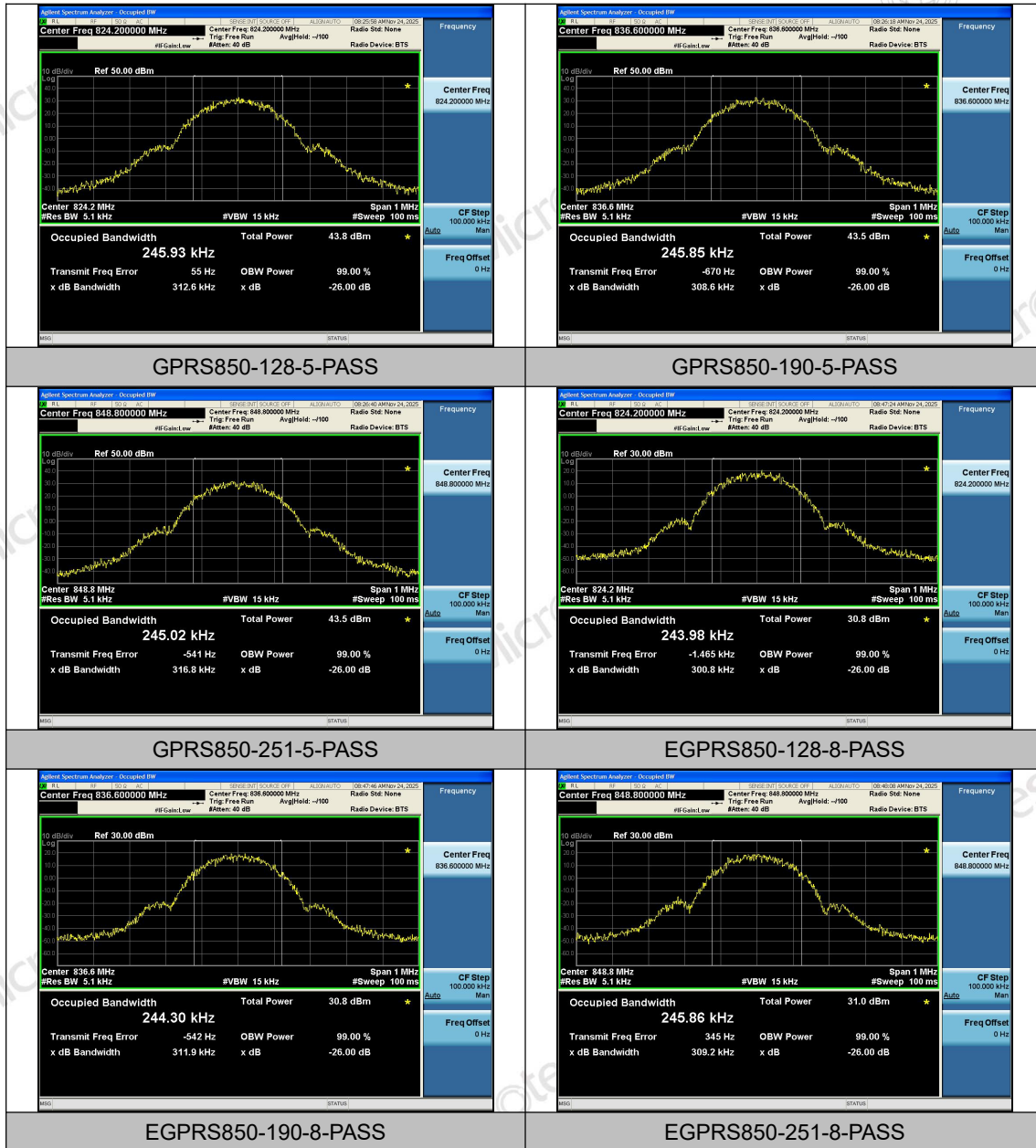


Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GPRS850	128	0.24593	0.3126	---	PASS
GPRS850	190	0.24585	0.3086	---	PASS
GPRS850	251	0.24502	0.3168	---	PASS
EGPRS850	128	0.24398	0.3008	---	PASS
EGPRS850	190	0.24430	0.3119	---	PASS
EGPRS850	251	0.24586	0.3092	---	PASS

Test Graphs

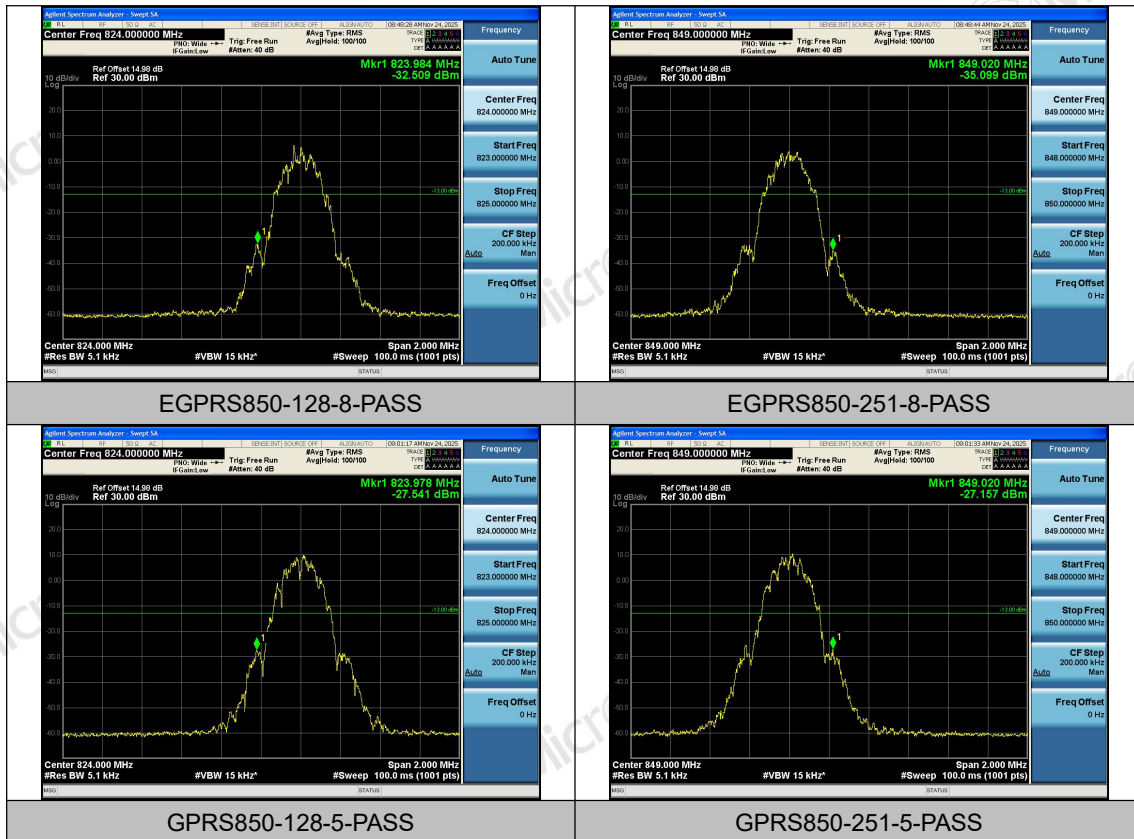


Appendix D: Band Edge

Test Result

Band	Channel	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
EGPRS850	128	823.98	-32.51	-13	PASS
EGPRS850	251	849.02	-35.10	-13	PASS
GPRS850	128	823.98	-27.54	-13	PASS
GPRS850	251	849.02	-27.16	-13	PASS

Test Graphs

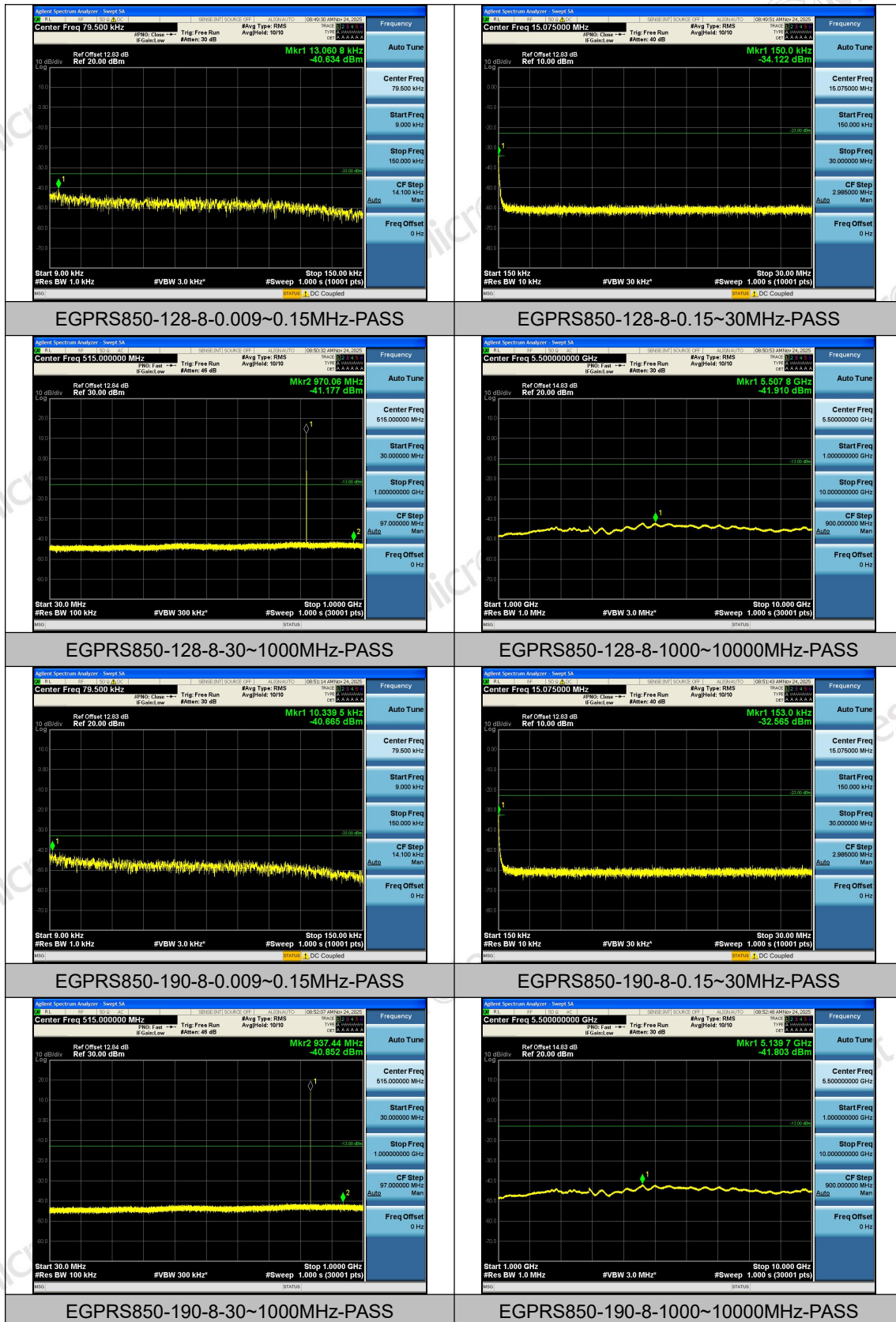


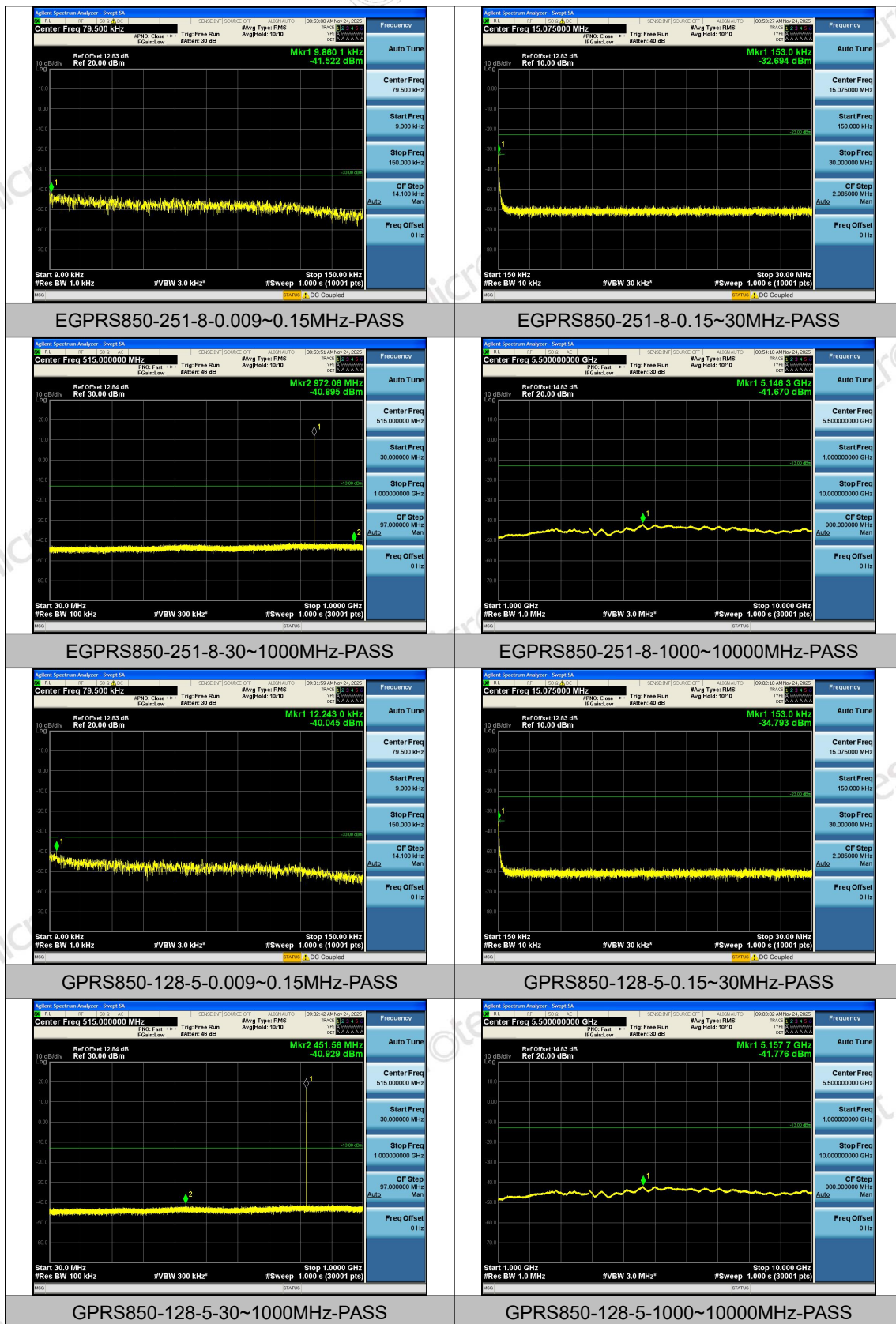
Appendix E: Conducted Spurious Emission

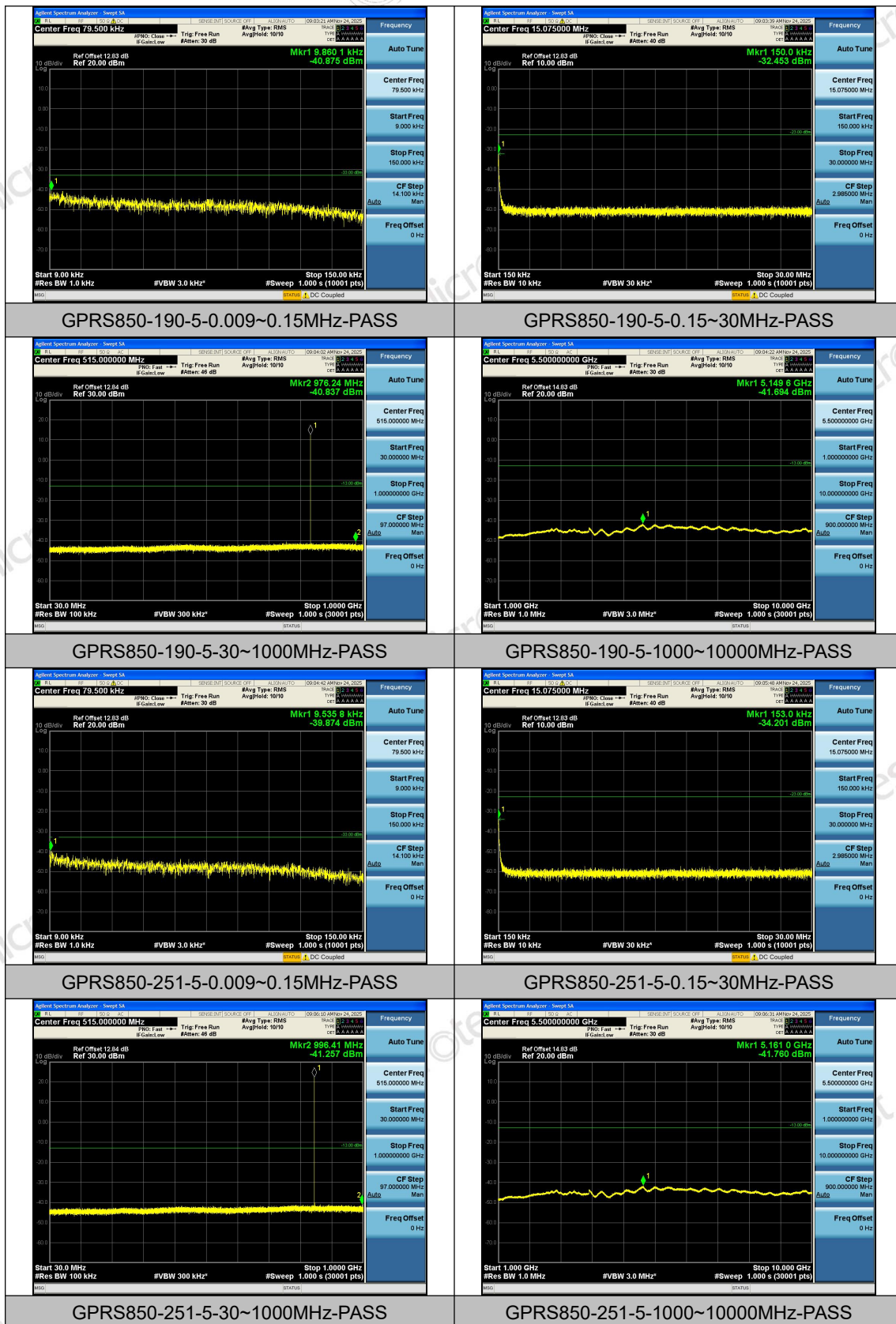
Test Result

Band	Channel	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
EGPRS850	128	0.009~0.15MHz	0.01	-40.63	-33	PASS
EGPRS850	128	0.15~30MHz	0.15	-34.12	-23	PASS
EGPRS850	128	30~1000MHz	970.06	-41.18	-13	PASS
EGPRS850	128	1000~10000MHz	5507.8	-41.91	-13	PASS
EGPRS850	190	0.009~0.15MHz	0.01	-40.67	-33	PASS
EGPRS850	190	0.15~30MHz	0.15	-32.57	-23	PASS
EGPRS850	190	30~1000MHz	937.44	-40.85	-13	PASS
EGPRS850	190	1000~10000MHz	5139.7	-41.8	-13	PASS
EGPRS850	251	0.009~0.15MHz	0.01	-41.52	-33	PASS
EGPRS850	251	0.15~30MHz	0.15	-32.69	-23	PASS
EGPRS850	251	30~1000MHz	972.06	-40.9	-13	PASS
EGPRS850	251	1000~10000MHz	5146.3	-41.67	-13	PASS
GPRS850	128	0.009~0.15MHz	0.01	-40.05	-33	PASS
GPRS850	128	0.15~30MHz	0.15	-34.79	-23	PASS
GPRS850	128	30~1000MHz	451.56	-40.93	-13	PASS
GPRS850	128	1000~10000MHz	5157.7	-41.78	-13	PASS
GPRS850	190	0.009~0.15MHz	0.01	-40.88	-33	PASS
GPRS850	190	0.15~30MHz	0.15	-32.45	-23	PASS
GPRS850	190	30~1000MHz	976.24	-40.84	-13	PASS
GPRS850	190	1000~10000MHz	5149.6	-41.69	-13	PASS
GPRS850	251	0.009~0.15MHz	0.01	-39.87	-33	PASS
GPRS850	251	0.15~30MHz	0.15	-34.2	-23	PASS
GPRS850	251	30~1000MHz	996.41	-41.26	-13	PASS
GPRS850	251	1000~10000MHz	5161	-41.76	-13	PASS

Test Graphs







Appendix F: Frequency Stability

Test Result

Temperature							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GPRS850	128	NV	-30	15.08	0.018297	±2.5	PASS
GPRS850	128	NV	-20	14.92	0.018102	±2.5	PASS
GPRS850	128	NV	-10	16.56	0.020092	±2.5	PASS
GPRS850	128	NV	0	16.47	0.019983	±2.5	PASS
GPRS850	128	NV	10	16.56	0.020092	±2.5	PASS
GPRS850	128	NV	20	15.53	0.018843	±2.5	PASS
GPRS850	128	NV	30	15.85	0.019231	±2.5	PASS
GPRS850	128	NV	40	16.01	0.019425	±2.5	PASS
GPRS850	128	NV	50	15.79	0.019158	±2.5	PASS
GPRS850	190	NV	-30	17.69	0.021145	±2.5	PASS
GPRS850	190	NV	-20	17.92	0.021420	±2.5	PASS
GPRS850	190	NV	-10	16.76	0.020033	±2.5	PASS
GPRS850	190	NV	0	16.53	0.019759	±2.5	PASS
GPRS850	190	NV	10	16.56	0.019794	±2.5	PASS
GPRS850	190	NV	20	17.08	0.020416	±2.5	PASS
GPRS850	190	NV	30	17.60	0.021038	±2.5	PASS
GPRS850	190	NV	40	15.98	0.019101	±2.5	PASS
GPRS850	190	NV	50	16.30	0.019484	±2.5	PASS
GPRS850	251	NV	-30	14.79	0.017425	±2.5	PASS
GPRS850	251	NV	-20	16.34	0.019251	±2.5	PASS
GPRS850	251	NV	-10	15.98	0.018827	±2.5	PASS
GPRS850	251	NV	0	16.08	0.018944	±2.5	PASS
GPRS850	251	NV	10	14.50	0.017083	±2.5	PASS
GPRS850	251	NV	20	15.46	0.018214	±2.5	PASS
GPRS850	251	NV	30	14.56	0.017154	±2.5	PASS
GPRS850	251	NV	40	13.69	0.016129	±2.5	PASS
GPRS850	251	NV	50	14.85	0.017495	±2.5	PASS
EGPRS850	128	NV	-30	22.37	0.027141	±2.5	PASS
EGPRS850	128	NV	-20	20.73	0.025152	±2.5	PASS
EGPRS850	128	NV	-10	22.34	0.027105	±2.5	PASS
EGPRS850	128	NV	0	21.44	0.026013	±2.5	PASS
EGPRS850	128	NV	10	20.63	0.025030	±2.5	PASS
EGPRS850	128	NV	20	22.92	0.027809	±2.5	PASS
EGPRS850	128	NV	30	20.24	0.024557	±2.5	PASS
EGPRS850	128	NV	40	21.83	0.026486	±2.5	PASS

EGPRS850	128	NV	50	20.73	0.025152	±2.5	PASS
EGPRS850	190	NV	-30	21.28	0.025436	±2.5	PASS
EGPRS850	190	NV	-20	21.41	0.025592	±2.5	PASS
EGPRS850	190	NV	-10	21.37	0.025544	±2.5	PASS
EGPRS850	190	NV	0	21.24	0.025388	±2.5	PASS
EGPRS850	190	NV	10	20.86	0.024934	±2.5	PASS
EGPRS850	190	NV	20	21.18	0.025317	±2.5	PASS
EGPRS850	190	NV	30	20.70	0.024743	±2.5	PASS
EGPRS850	190	NV	40	20.11	0.024038	±2.5	PASS
EGPRS850	190	NV	50	21.34	0.025508	±2.5	PASS
EGPRS850	251	NV	-30	18.56	0.021866	±2.5	PASS
EGPRS850	251	NV	-20	20.02	0.023586	±2.5	PASS
EGPRS850	251	NV	-10	19.73	0.023245	±2.5	PASS
EGPRS850	251	NV	0	18.76	0.022102	±2.5	PASS
EGPRS850	251	NV	10	19.24	0.022667	±2.5	PASS
EGPRS850	251	NV	20	19.40	0.022856	±2.5	PASS
EGPRS850	251	NV	30	18.60	0.021913	±2.5	PASS
EGPRS850	251	NV	40	21.37	0.025177	±2.5	PASS
EGPRS850	251	NV	50	19.98	0.023539	±2.5	PASS

Appendix G: Modulation Characteristics

Test Result

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

Test Graphs

