

Appendix-A GSM

Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Channel	Slot	Result (dBm)	ERP (dBm)	Limit(dBm)	Verdict
GPRS850	128	1	33.41	30.57	38.45	PASS
GPRS850	190	1	33.48	30.64	38.45	PASS
GPRS850	251	1	33.49	30.65	38.45	PASS
GPRS850	128	2	31.48	28.64	38.45	PASS
GPRS850	190	2	31.52	28.68	38.45	PASS
GPRS850	251	2	31.74	28.9	38.45	PASS
GPRS850	128	3	29.61	26.77	38.45	PASS
GPRS850	190	3	29.64	26.8	38.45	PASS
GPRS850	251	3	29.96	27.12	38.45	PASS
GPRS850	128	4	27.65	24.81	38.45	PASS
GPRS850	190	4	27.67	24.83	38.45	PASS
GPRS850	251	4	28.02	25.18	38.45	PASS
EGPRS850	128	1	27.07	24.23	38.45	PASS
EGPRS850	190	1	27.01	24.17	38.45	PASS
EGPRS850	251	1	27.22	24.38	38.45	PASS
EGPRS850	128	2	26.03	23.19	38.45	PASS
EGPRS850	190	2	26.03	23.19	38.45	PASS
EGPRS850	251	2	26.24	23.4	38.45	PASS
EGPRS850	128	3	23.81	20.97	38.45	PASS
EGPRS850	190	3	23.87	21.03	38.45	PASS
EGPRS850	251	3	23.98	21.14	38.45	PASS
EGPRS850	128	4	21.95	19.11	38.45	PASS
EGPRS850	190	4	22.11	19.27	38.45	PASS
EGPRS850	251	4	22.09	19.25	38.45	PASS

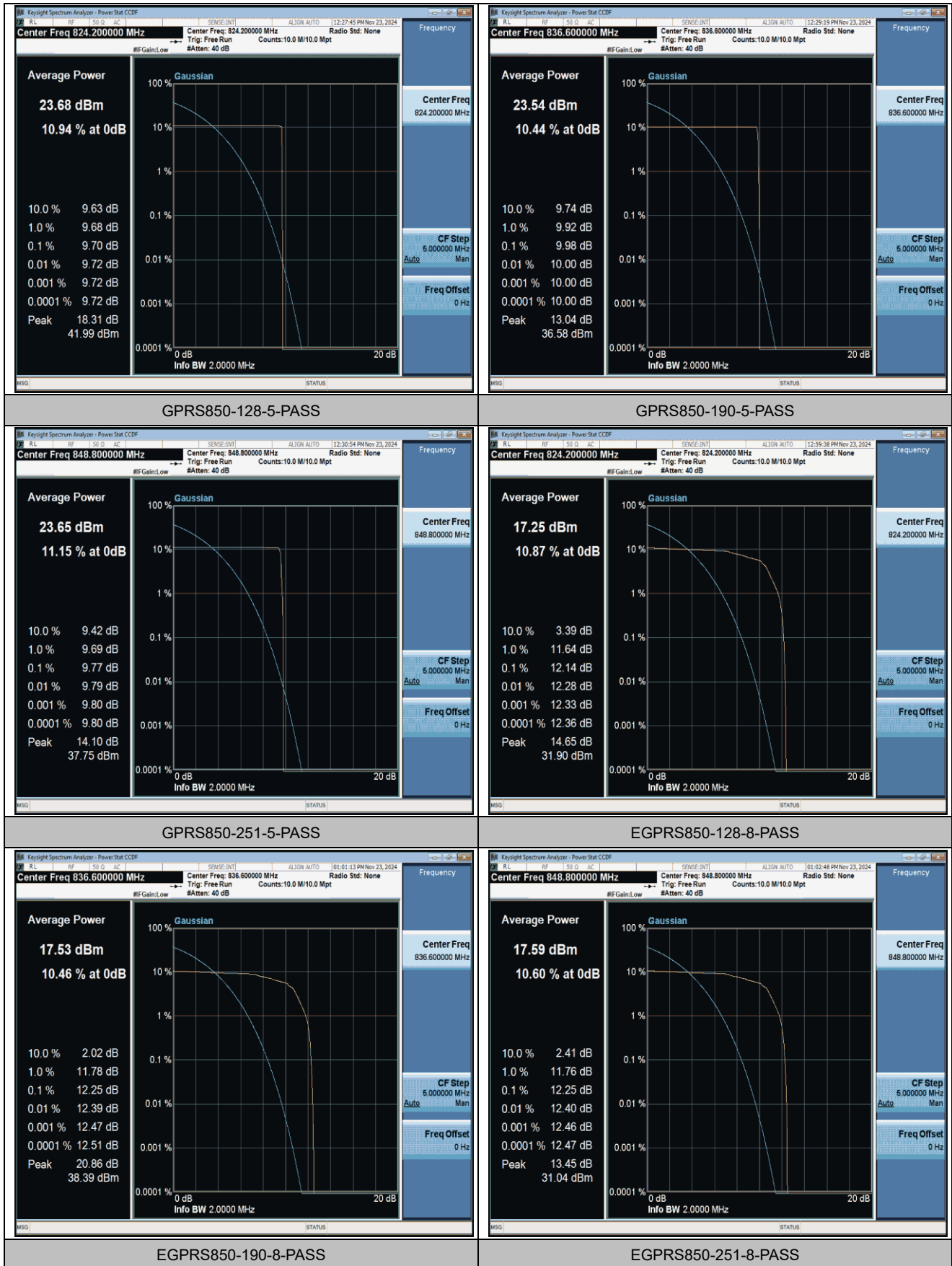
Band	Channel	Slot	Result (dBm)	EIRP (dBm)	Limit(dBm)	Verdict
GPRS1900	512	1	29.95	28.09	33	PASS
GPRS1900	661	1	29.81	27.95	33	PASS
GPRS1900	810	1	30.02	28.16	33	PASS
GPRS1900	512	2	27.84	25.98	33	PASS
GPRS1900	661	2	27.63	25.77	33	PASS
GPRS1900	810	2	27.90	26.04	33	PASS
GPRS1900	512	3	26.23	24.37	33	PASS
GPRS1900	661	3	26.00	24.14	33	PASS
GPRS1900	810	3	26.28	24.42	33	PASS
GPRS1900	512	4	24.25	22.39	33	PASS
GPRS1900	661	4	23.98	22.12	33	PASS
GPRS1900	810	4	24.25	22.39	33	PASS
EGPRS1900	512	1	27.34	25.48	33	PASS
EGPRS1900	661	1	26.62	24.76	33	PASS
EGPRS1900	810	1	26.41	24.55	33	PASS
EGPRS1900	512	2	26.05	24.19	33	PASS
EGPRS1900	661	2	25.38	23.52	33	PASS
EGPRS1900	810	2	25.03	23.17	33	PASS
EGPRS1900	512	3	23.56	21.7	33	PASS
EGPRS1900	661	3	23.05	21.19	33	PASS
EGPRS1900	810	3	22.65	20.79	33	PASS
EGPRS1900	512	4	21.48	19.62	33	PASS
EGPRS1900	661	4	21.02	19.16	33	PASS
EGPRS1900	810	4	20.52	18.66	33	PASS

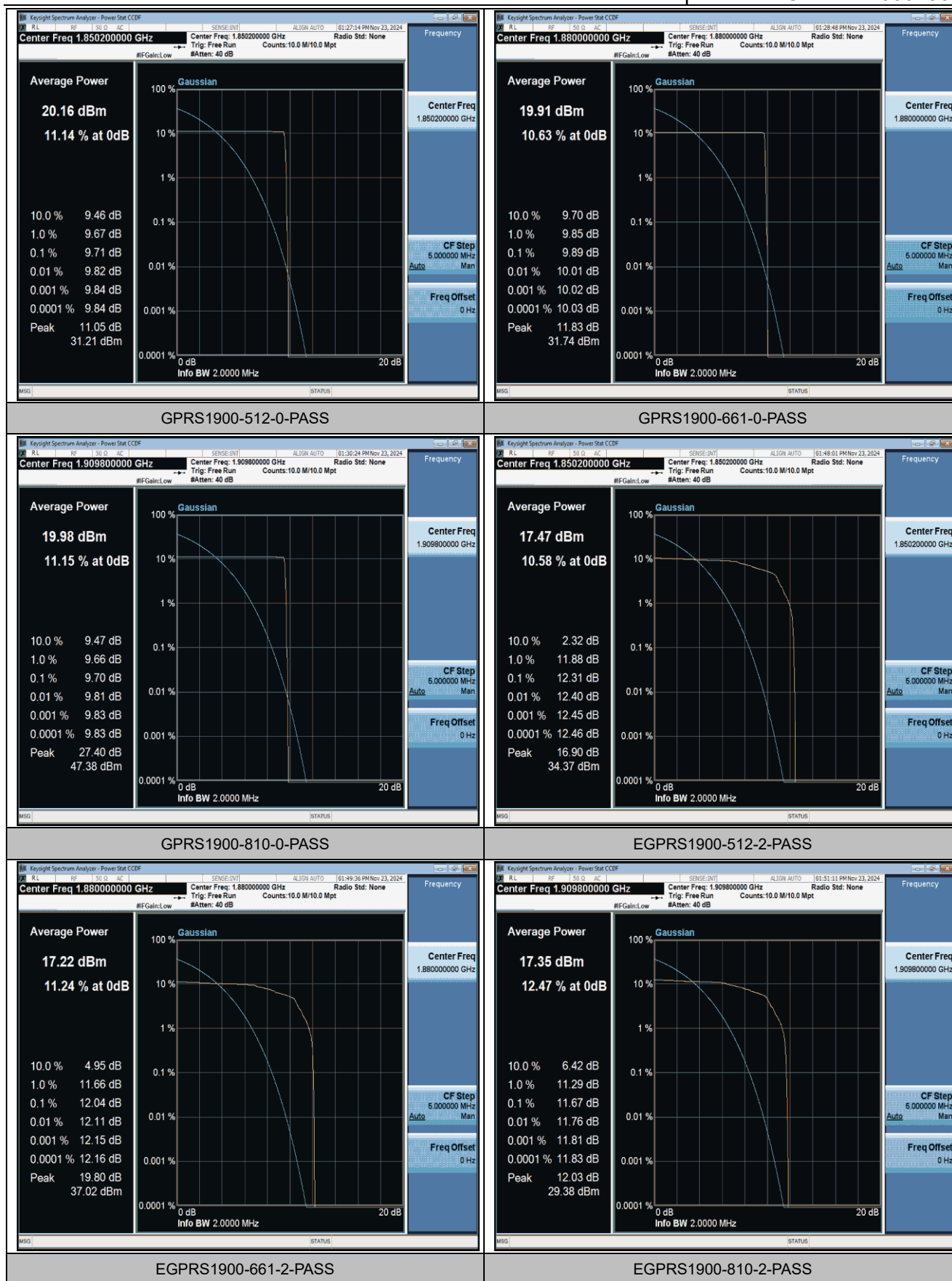
Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	Result(dB)	Limit(dB)	Verdict
GPRS850	128	9.70	13	PASS
GPRS850	190	9.98	13	PASS
GPRS850	251	9.77	13	PASS
EGPRS850	128	12.14	13	PASS
EGPRS850	190	12.25	13	PASS
EGPRS850	251	12.25	13	PASS
GPRS1900	512	9.71	13	PASS
GPRS1900	661	9.89	13	PASS
GPRS1900	810	9.70	13	PASS
EGPRS1900	512	12.31	13	PASS
EGPRS1900	661	12.04	13	PASS
EGPRS1900	810	11.67	13	PASS

Test Graphs



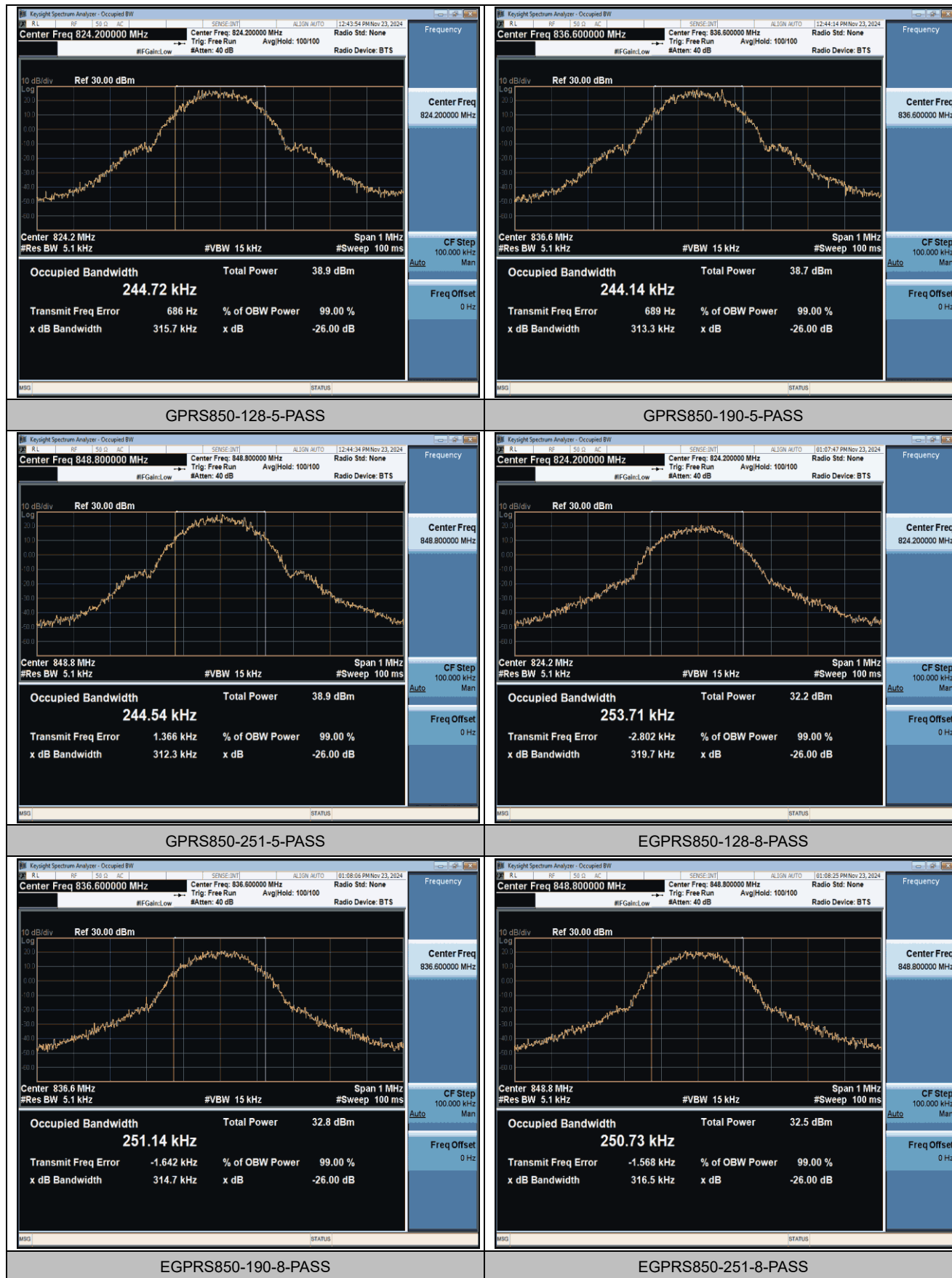


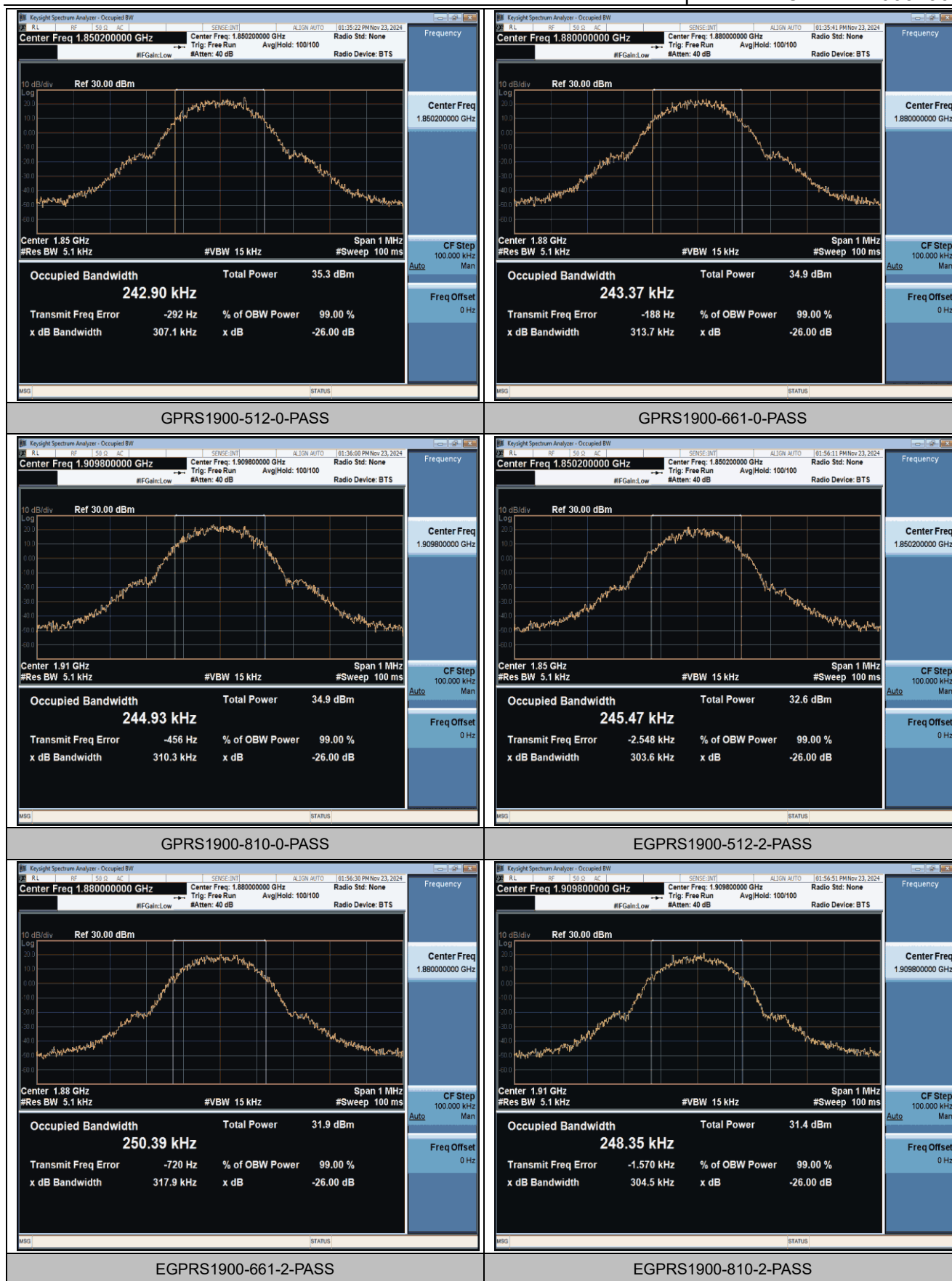
26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GPRS850	128	0.24472	0.3157	---	PASS
GPRS850	190	0.24414	0.3133	---	PASS
GPRS850	251	0.24454	0.3123	---	PASS
EGPRS850	128	0.25371	0.3197	---	PASS
EGPRS850	190	0.25114	0.3147	---	PASS
EGPRS850	251	0.25073	0.3165	---	PASS
GPRS1900	512	0.24290	0.3071	---	PASS
GPRS1900	661	0.24337	0.3137	---	PASS
GPRS1900	810	0.24493	0.3103	---	PASS
EGPRS1900	512	0.24547	0.3036	---	PASS
EGPRS1900	661	0.25039	0.3179	---	PASS
EGPRS1900	810	0.24835	0.3045	---	PASS

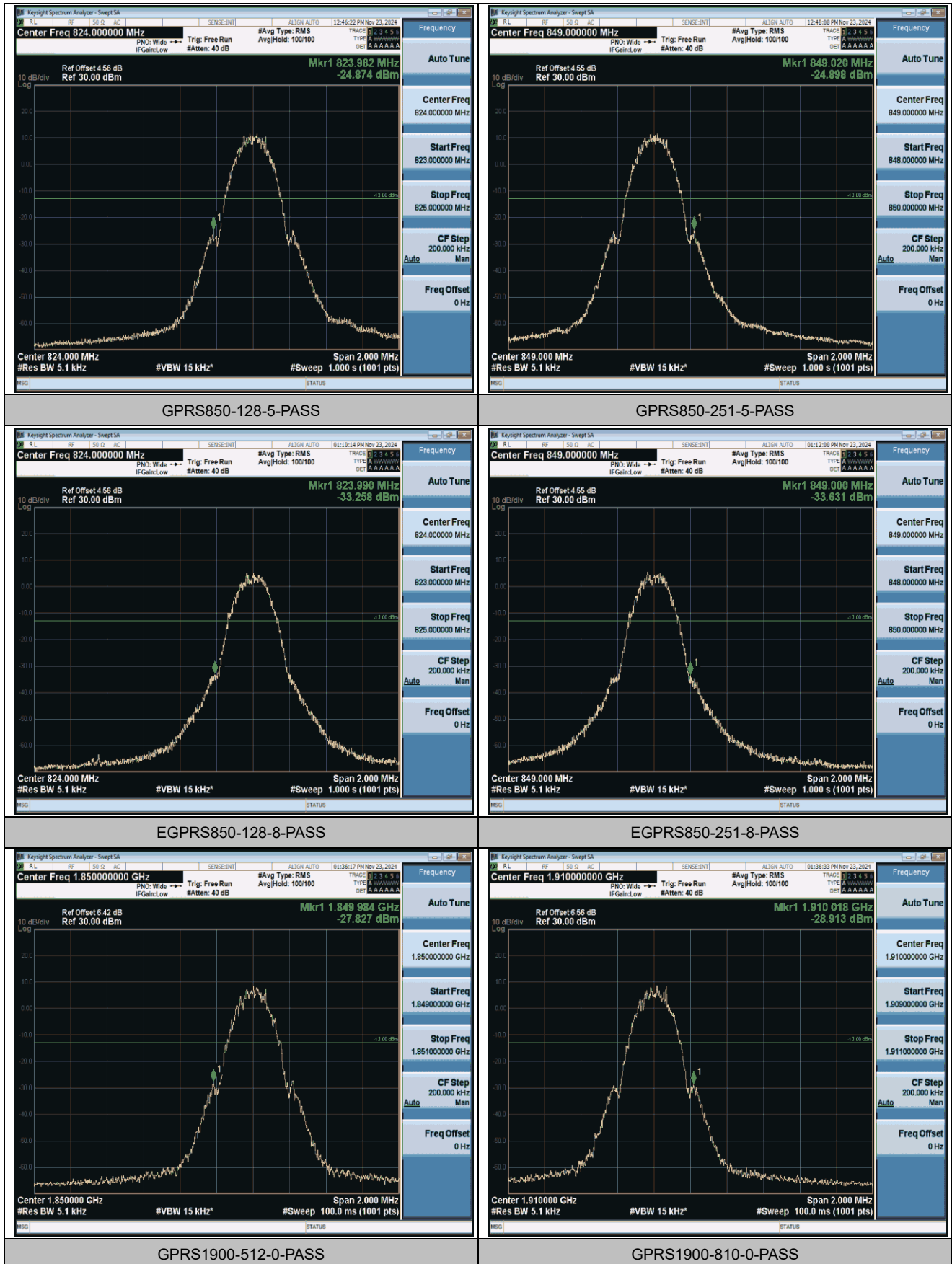
Test Graphs

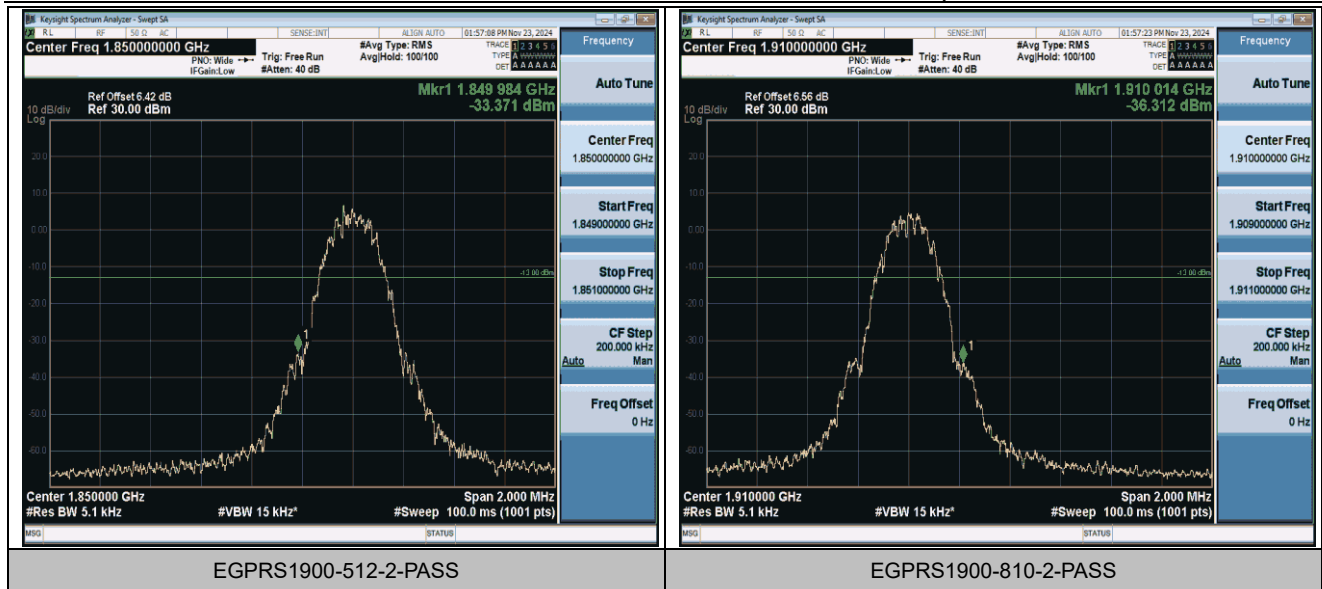




Band Edge

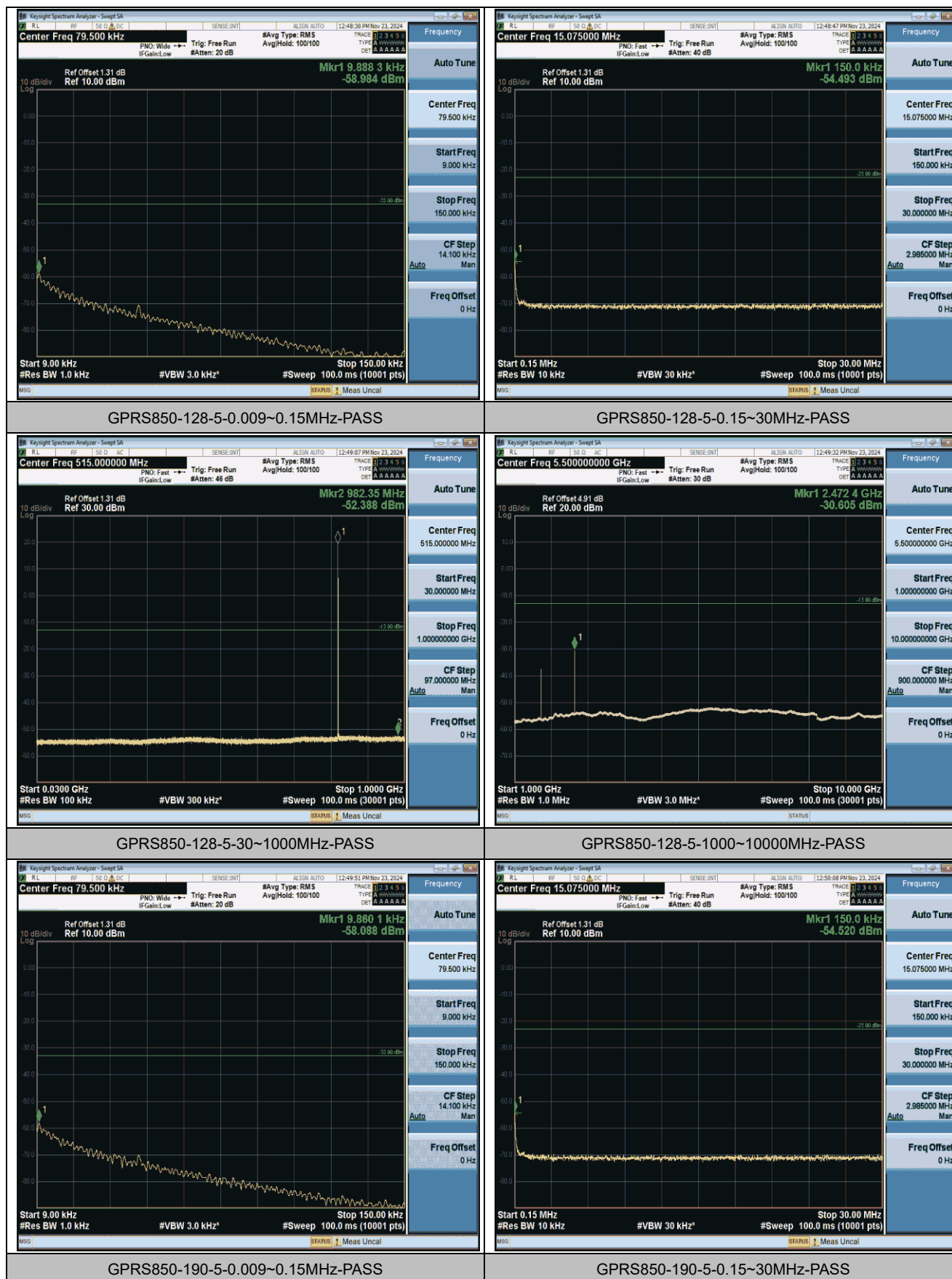
Test Graphs

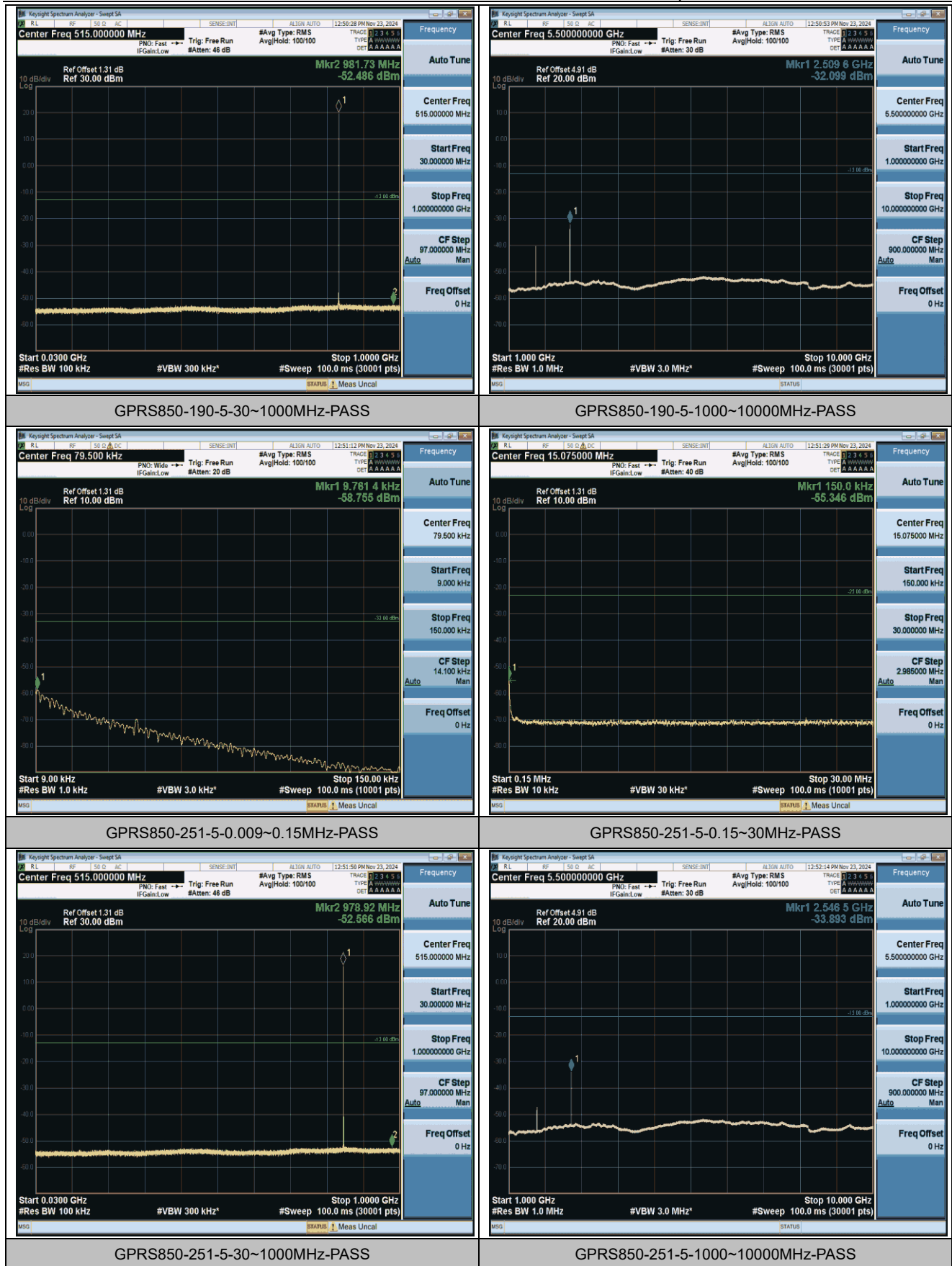


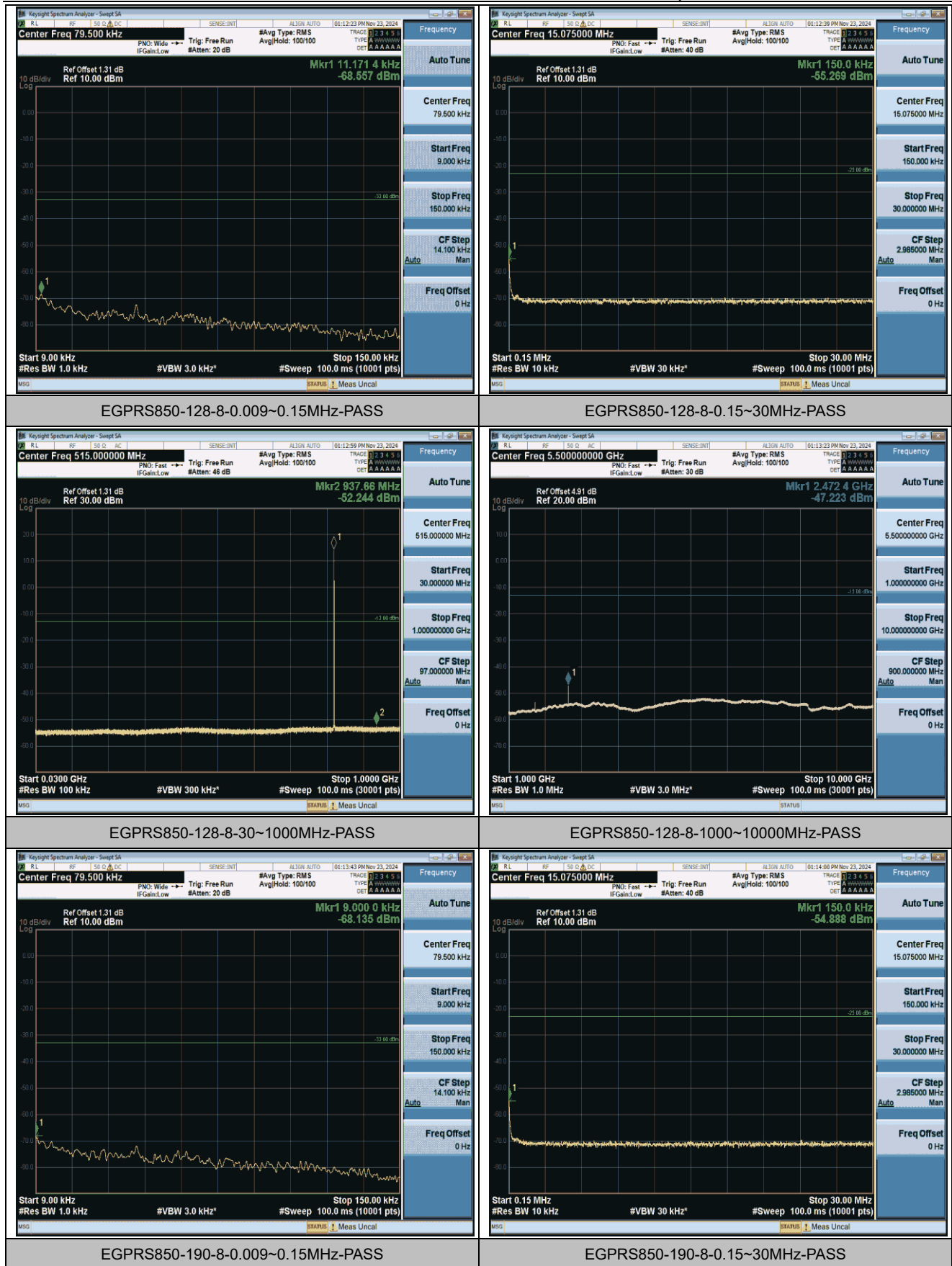


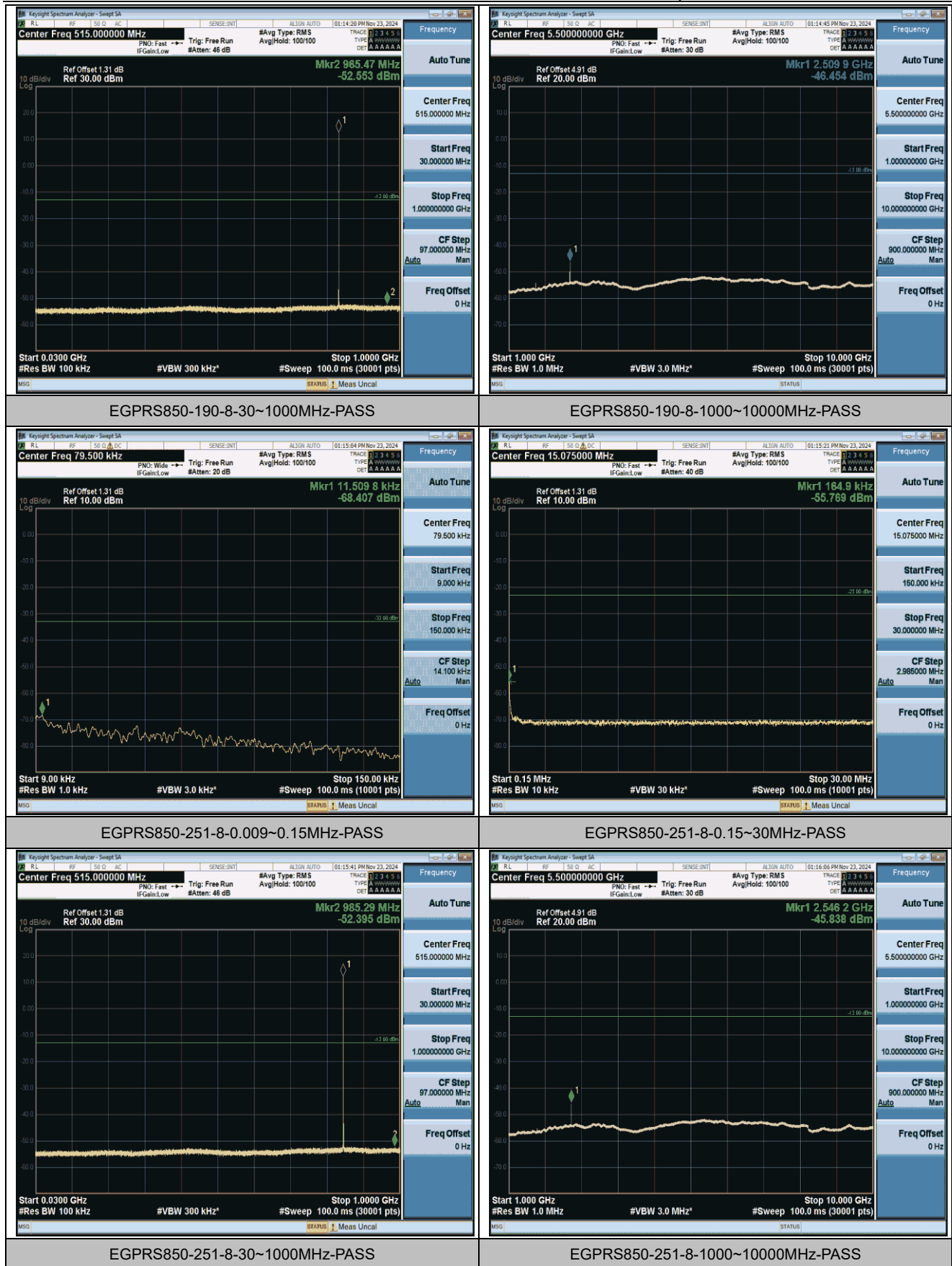
Conducted Spurious Emission

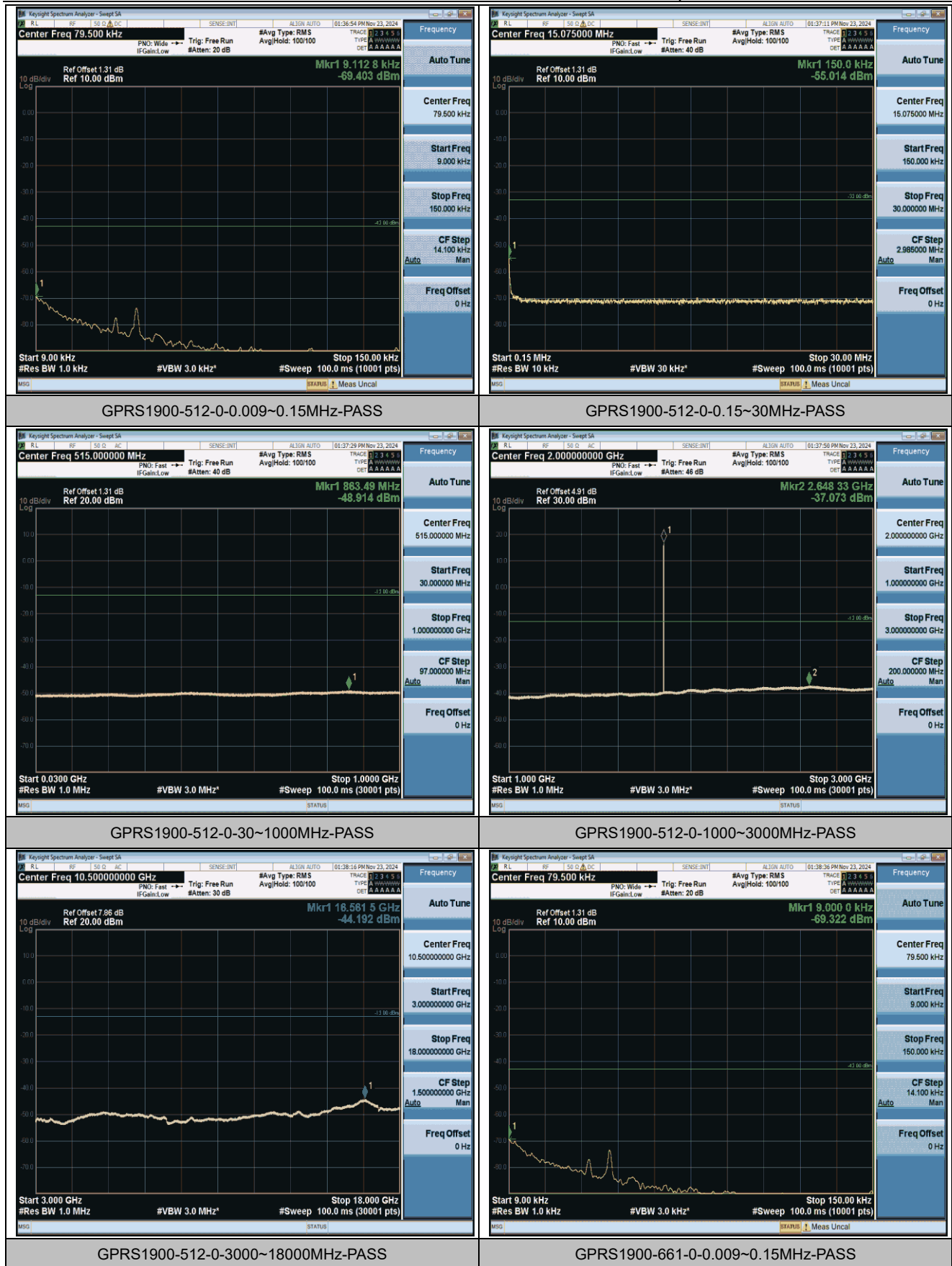
Test Graphs



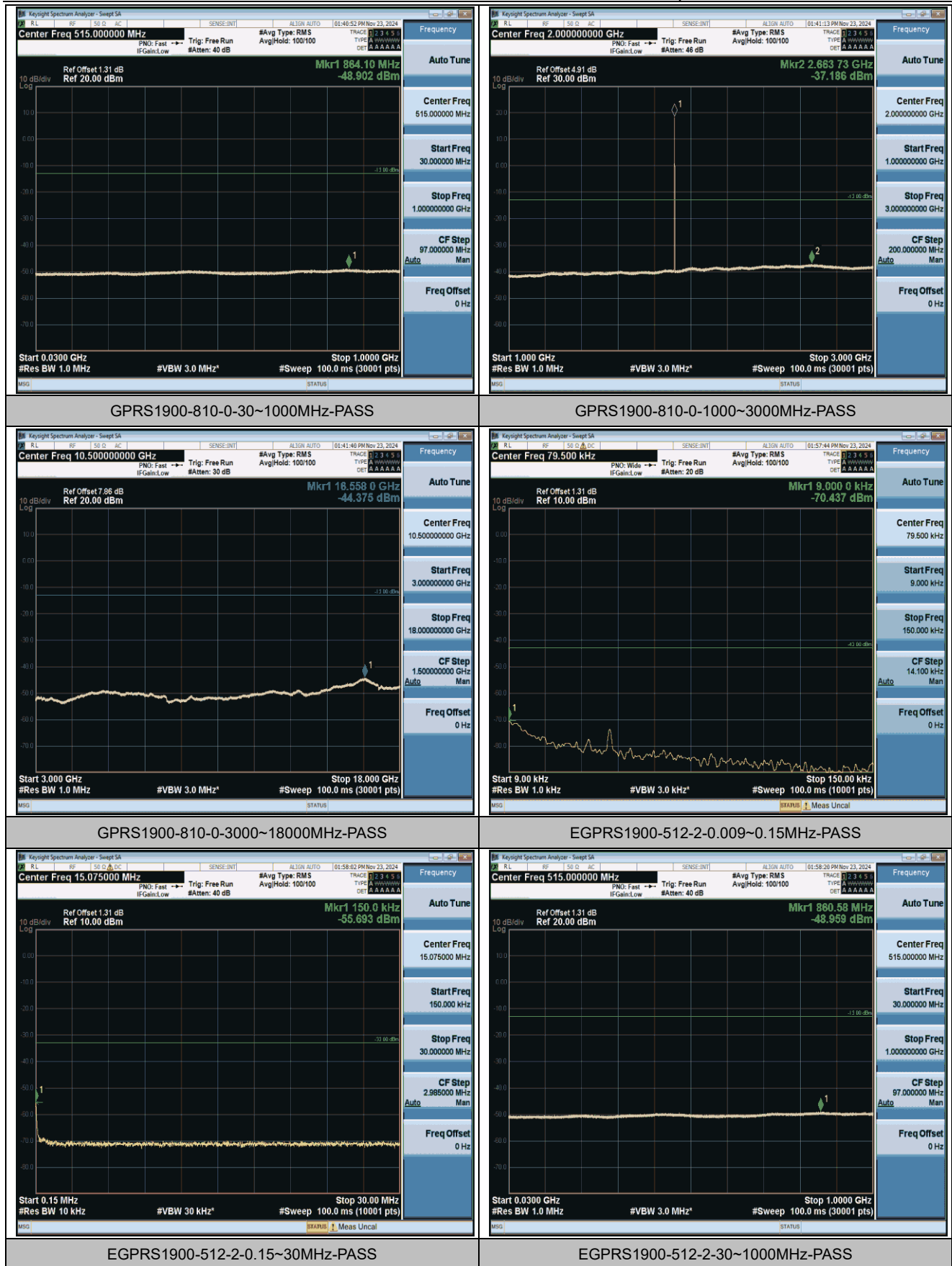


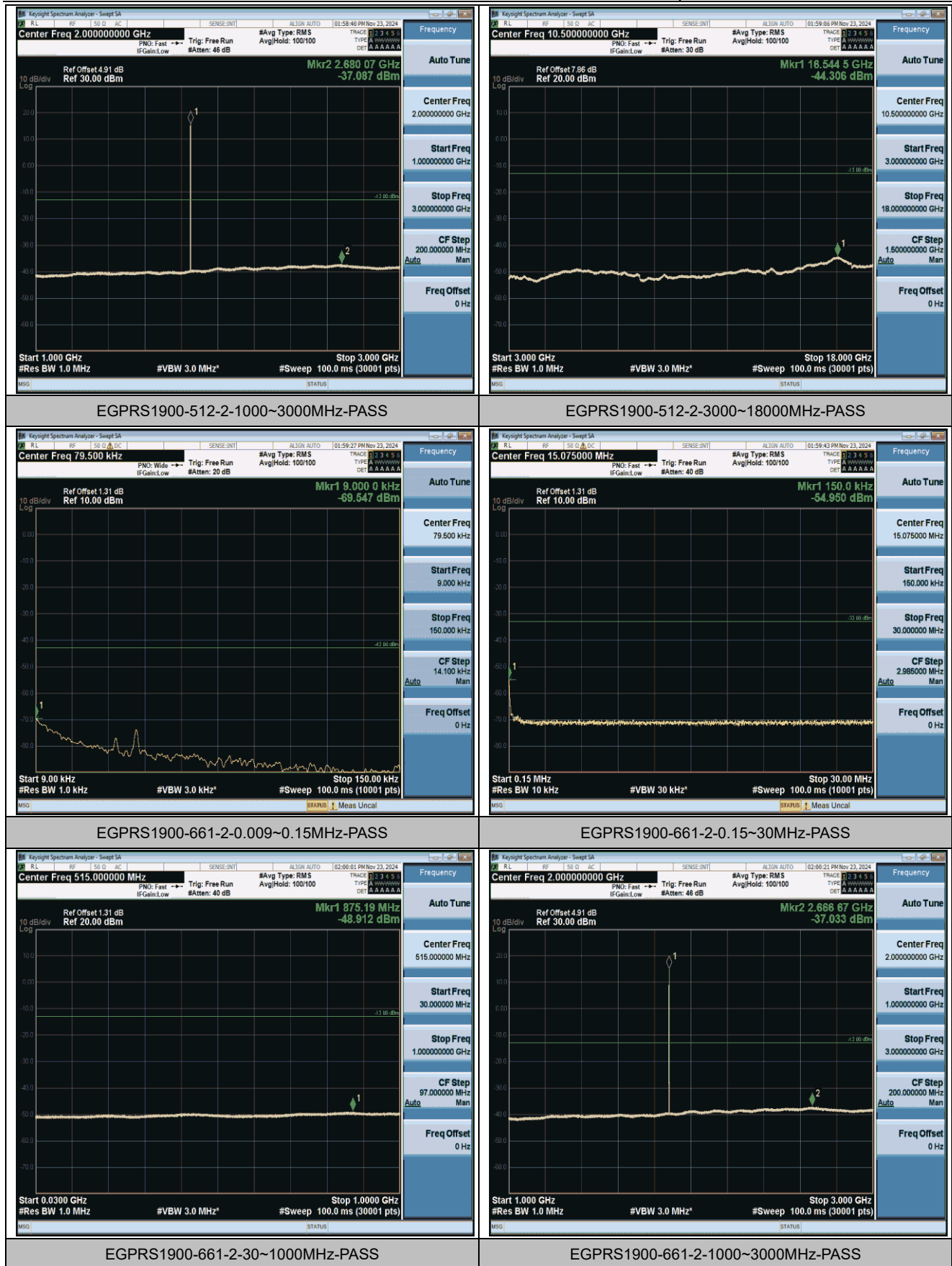


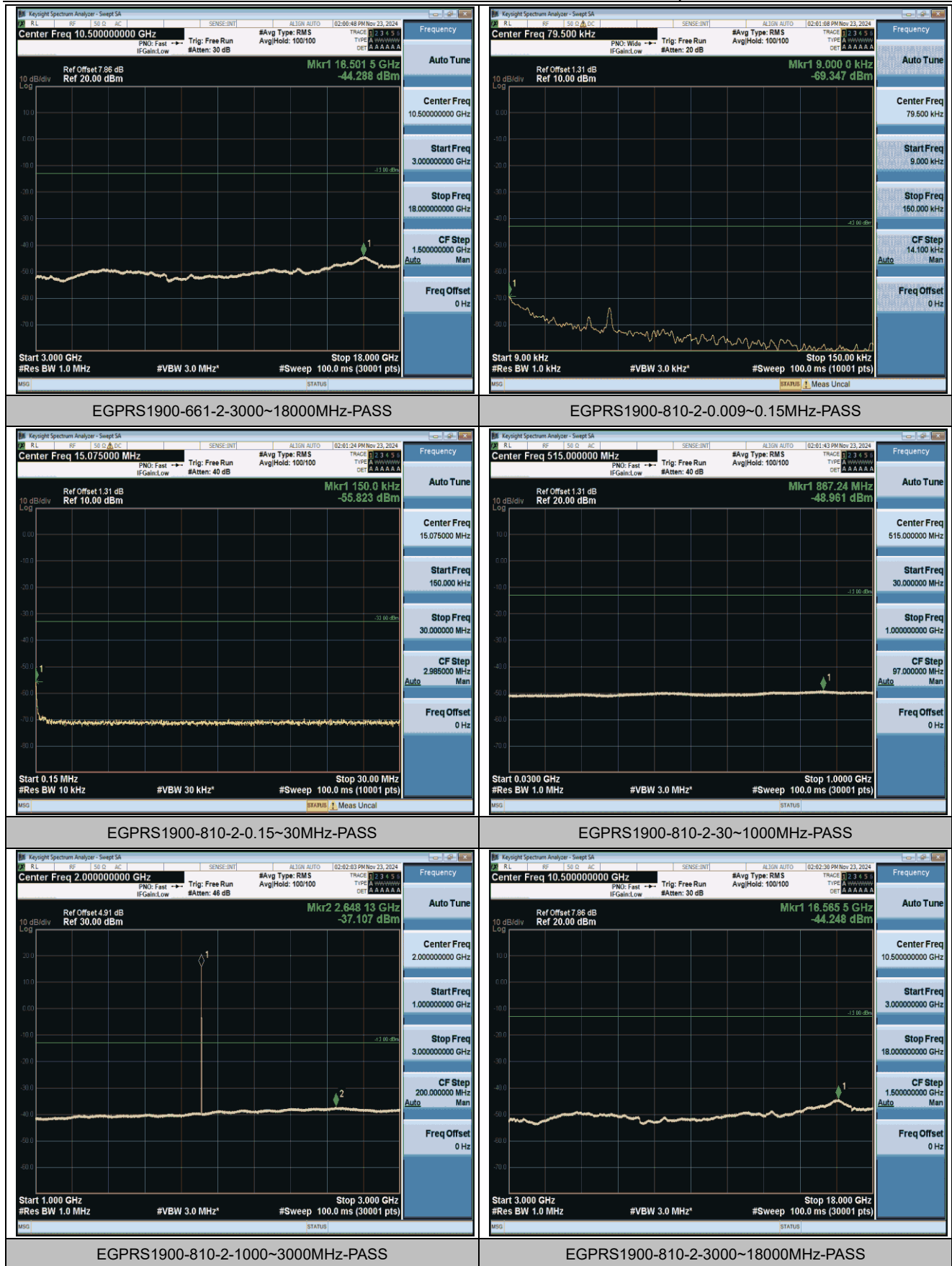












Frequency Stability

Test Result

Voltage							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GPRS850	190	VN	NT	0.00	0.000000	±2.5	PASS
GPRS850	190	VL	NT	0.00	0.000000	±2.5	PASS
GPRS850	190	VH	NT	0.00	0.000000	±2.5	PASS
EGPRS850	190	VN	NT	8.20	0.009802	±2.5	PASS
EGPRS850	190	VL	NT	6.55	0.007829	±2.5	PASS
EGPRS850	190	VH	NT	6.62	0.007913	±2.5	PASS
GPRS1900	661	VN	NT	-3.68	-0.001957	--	PASS
GPRS1900	661	VL	NT	-1.65	-0.000878	--	PASS
GPRS1900	661	VH	NT	3.87	0.002059	--	PASS
EGPRS1900	661	VN	NT	13.56	0.007213	--	PASS
EGPRS1900	661	VL	NT	7.20	0.003830	--	PASS
EGPRS1900	661	VH	NT	12.07	0.006420	--	PASS

Temperature							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GPRS850	190	NV	-30	0.00	0.000000	±2.5	PASS
GPRS850	190	NV	-20	17.89	0.021384	±2.5	PASS
GPRS850	190	NV	-10	2.13	0.002546	±2.5	PASS
GPRS850	190	NV	0	3.75	0.004482	±2.5	PASS
GPRS850	190	NV	10	12.85	0.015360	±2.5	PASS
GPRS850	190	NV	20	0.00	0.000000	±2.5	PASS
GPRS850	190	NV	30	0.00	0.000000	±2.5	PASS
GPRS850	190	NV	40	0.00	0.000000	±2.5	PASS
GPRS850	190	NV	50	0.00	0.000000	±2.5	PASS
EGPRS850	190	NV	-30	0.00	0.000000	±2.5	PASS
EGPRS850	190	NV	-20	3.52	0.004208	±2.5	PASS
EGPRS850	190	NV	-10	-0.10	-0.000120	±2.5	PASS
EGPRS850	190	NV	0	-0.68	-0.000813	±2.5	PASS
EGPRS850	190	NV	10	-0.03	-0.000036	±2.5	PASS
EGPRS850	190	NV	20	3.42	0.004088	±2.5	PASS
EGPRS850	190	NV	30	7.55	0.009025	±2.5	PASS
EGPRS850	190	NV	40	3.81	0.004554	±2.5	PASS
EGPRS850	190	NV	50	6.72	0.008033	±2.5	PASS
GPRS1900	661	NV	-30	9.78	0.005202	--	PASS
GPRS1900	661	NV	-20	0.00	0.000000	--	PASS
GPRS1900	661	NV	-10	1.07	0.000569	--	PASS
GPRS1900	661	NV	0	8.78	0.004670	--	PASS
GPRS1900	661	NV	10	6.68	0.003553	--	PASS
GPRS1900	661	NV	20	1.74	0.000926	--	PASS
GPRS1900	661	NV	30	-0.19	-0.000101	--	PASS
GPRS1900	661	NV	40	2.10	0.001117	--	PASS
GPRS1900	661	NV	50	0.06	0.000032	--	PASS
EGPRS1900	661	NV	-30	5.88	0.003128	--	PASS
EGPRS1900	661	NV	-20	-1.52	-0.000809	--	PASS
EGPRS1900	661	NV	-10	3.91	0.002080	--	PASS
EGPRS1900	661	NV	0	1.16	0.000617	--	PASS
EGPRS1900	661	NV	10	9.27	0.004931	--	PASS
EGPRS1900	661	NV	20	5.39	0.002867	--	PASS
EGPRS1900	661	NV	30	7.23	0.003846	--	PASS
EGPRS1900	661	NV	40	5.29	0.002814	--	PASS
EGPRS1900	661	NV	50	0.94	0.000500	--	PASS

~The End~