

Appendix-A GSM

Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Channel	Slot	Power(dBm)	ERP (dBm)	Limit(dBm)	Verdict
GPRS850	128	1	32.53	31.7	38.45	PASS
GPRS850	190	1	32.67	31.84	38.45	PASS
GPRS850	251	1	32.60	31.77	38.45	PASS
GPRS850	128	2	32.37	31.54	38.45	PASS
GPRS850	190	2	32.96	32.13	38.45	PASS
GPRS850	251	2	33.45	32.62	38.45	PASS
GPRS850	128	3	30.66	29.83	38.45	PASS
GPRS850	190	3	31.40	30.57	38.45	PASS
GPRS850	251	3	31.84	31.01	38.45	PASS
GPRS850	128	4	28.71	27.88	38.45	PASS
GPRS850	190	4	29.41	28.58	38.45	PASS
GPRS850	251	4	29.73	28.9	38.45	PASS

Band	Channel	Slot	Power(dBm)	EIRP (dBm)	Limit(dBm)	Verdict
GPRS1900	512	1	30.79	31.79	33.00	PASS
GPRS1900	661	1	31.30	32.3	33.00	PASS
GPRS1900	810	1	31.24	32.24	33.00	PASS
GPRS1900	512	2	29.11	30.11	33.00	PASS
GPRS1900	661	2	29.66	30.66	33.00	PASS
GPRS1900	810	2	29.60	30.6	33.00	PASS
GPRS1900	512	3	27.37	28.37	33.00	PASS
GPRS1900	661	3	27.98	28.98	33.00	PASS
GPRS1900	810	3	27.93	28.93	33.00	PASS
GPRS1900	512	4	25.51	26.51	33.00	PASS
GPRS1900	661	4	26.04	27.04	33.00	PASS
GPRS1900	810	4	26.13	27.13	33.00	PASS

Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	Result(dB)	Limit(dB)	Verdict
GPRS850	128	9.85	13	PASS
GPRS850	190	10.15	13	PASS
GPRS850	251	9.73	13	PASS
GPRS1900	512	9.42	13	PASS
GPRS1900	661	9.58	13	PASS
GPRS1900	810	9.42	13	PASS

Test Graphs

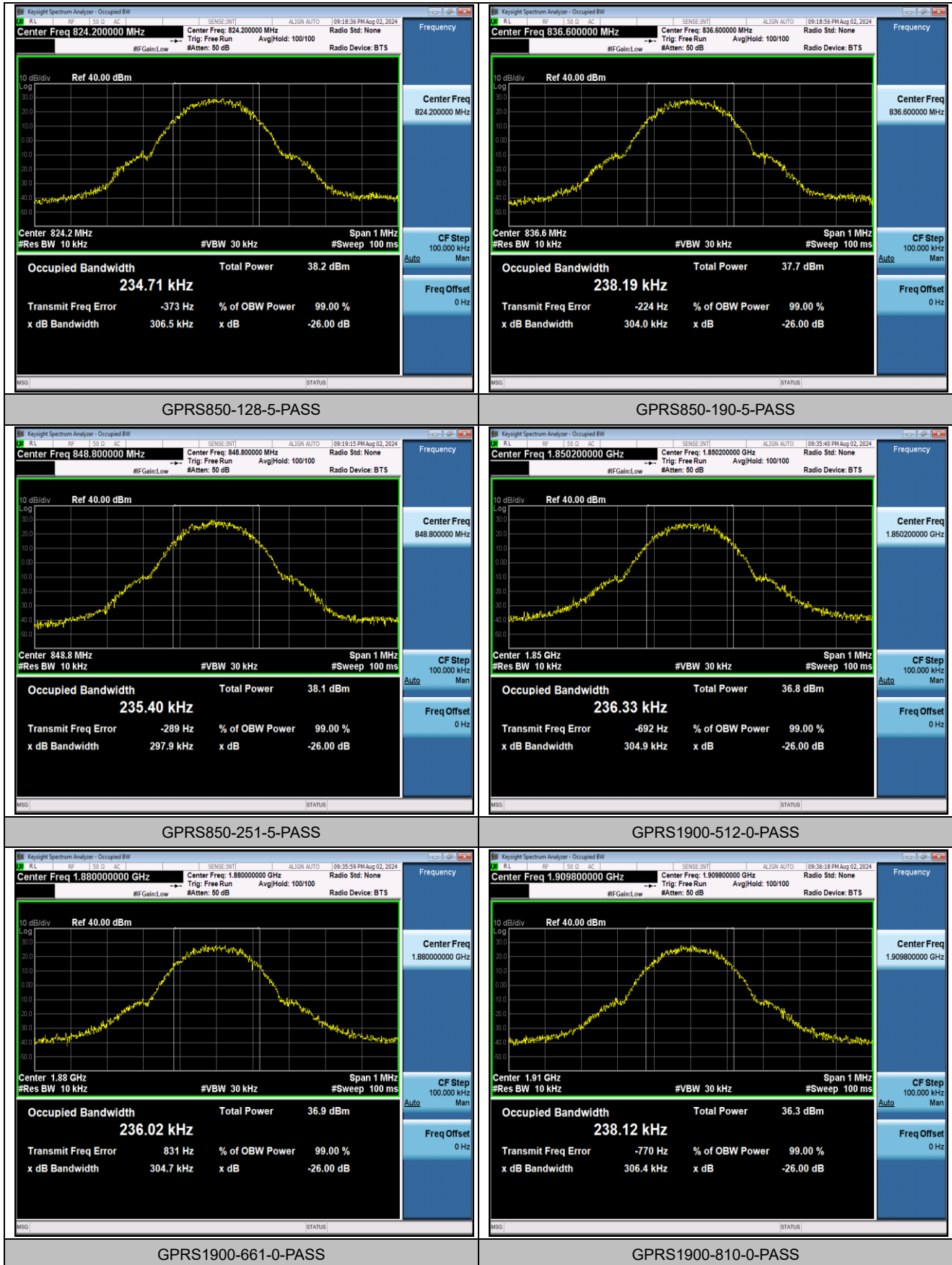


26dB Bandwidth and Occupied Bandwidth

Test Result

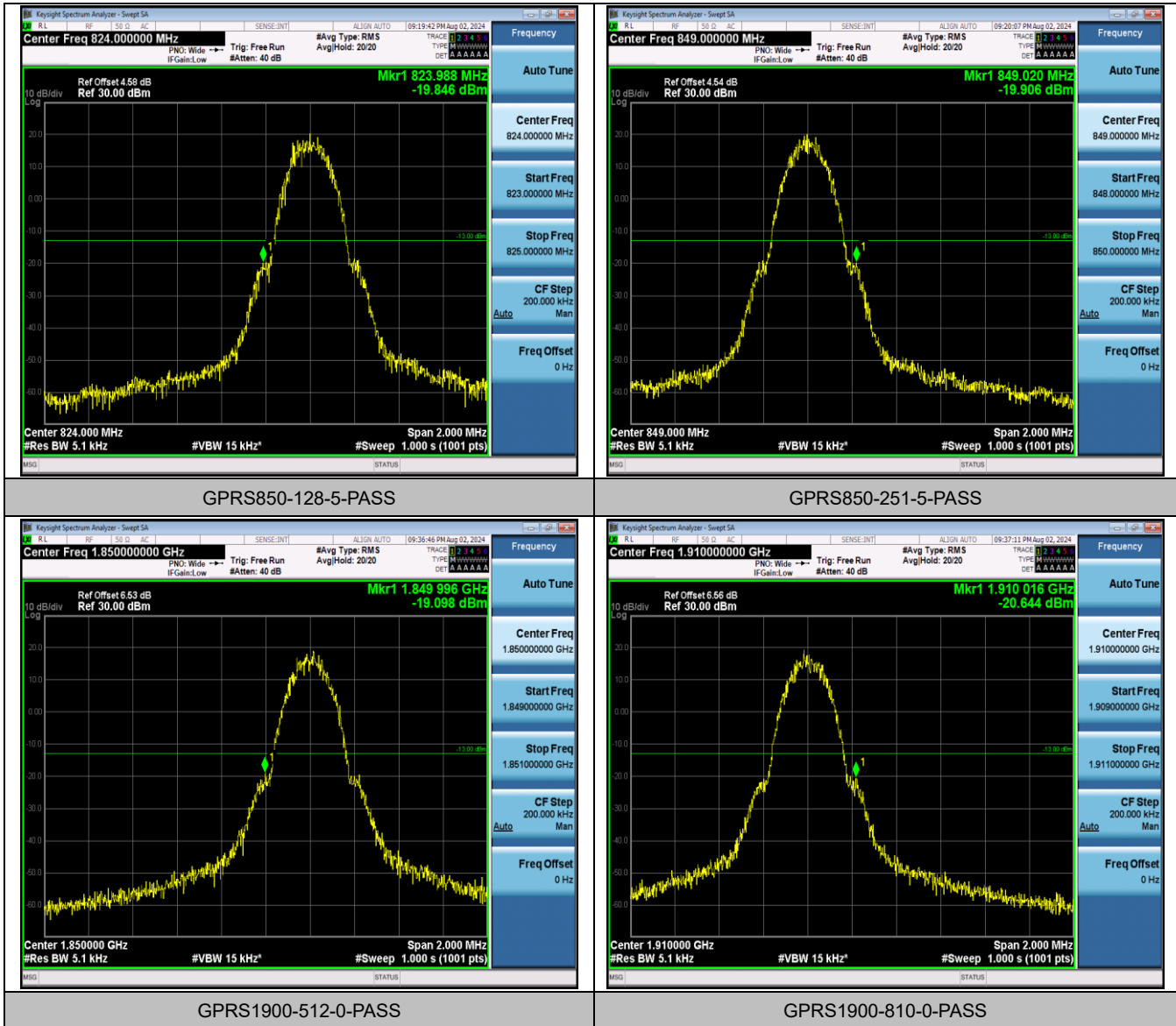
Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GPRS850	128	0.23471	0.3065	---	PASS
GPRS850	190	0.23819	0.3040	---	PASS
GPRS850	251	0.23540	0.2979	---	PASS
GPRS1900	512	0.23633	0.3049	---	PASS
GPRS1900	661	0.23602	0.3047	---	PASS
GPRS1900	810	0.23812	0.3064	---	PASS

Test Graphs



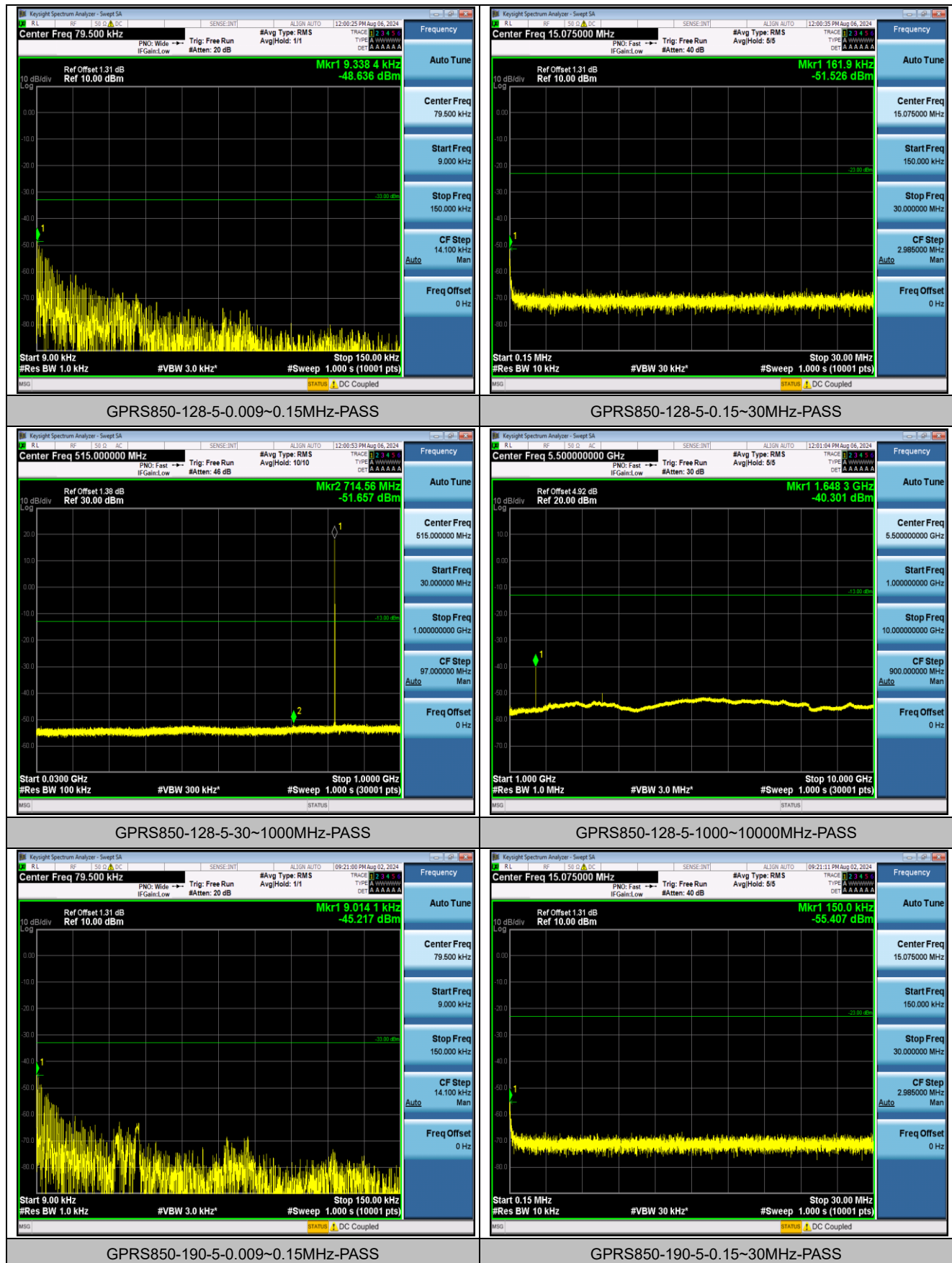
Band Edge

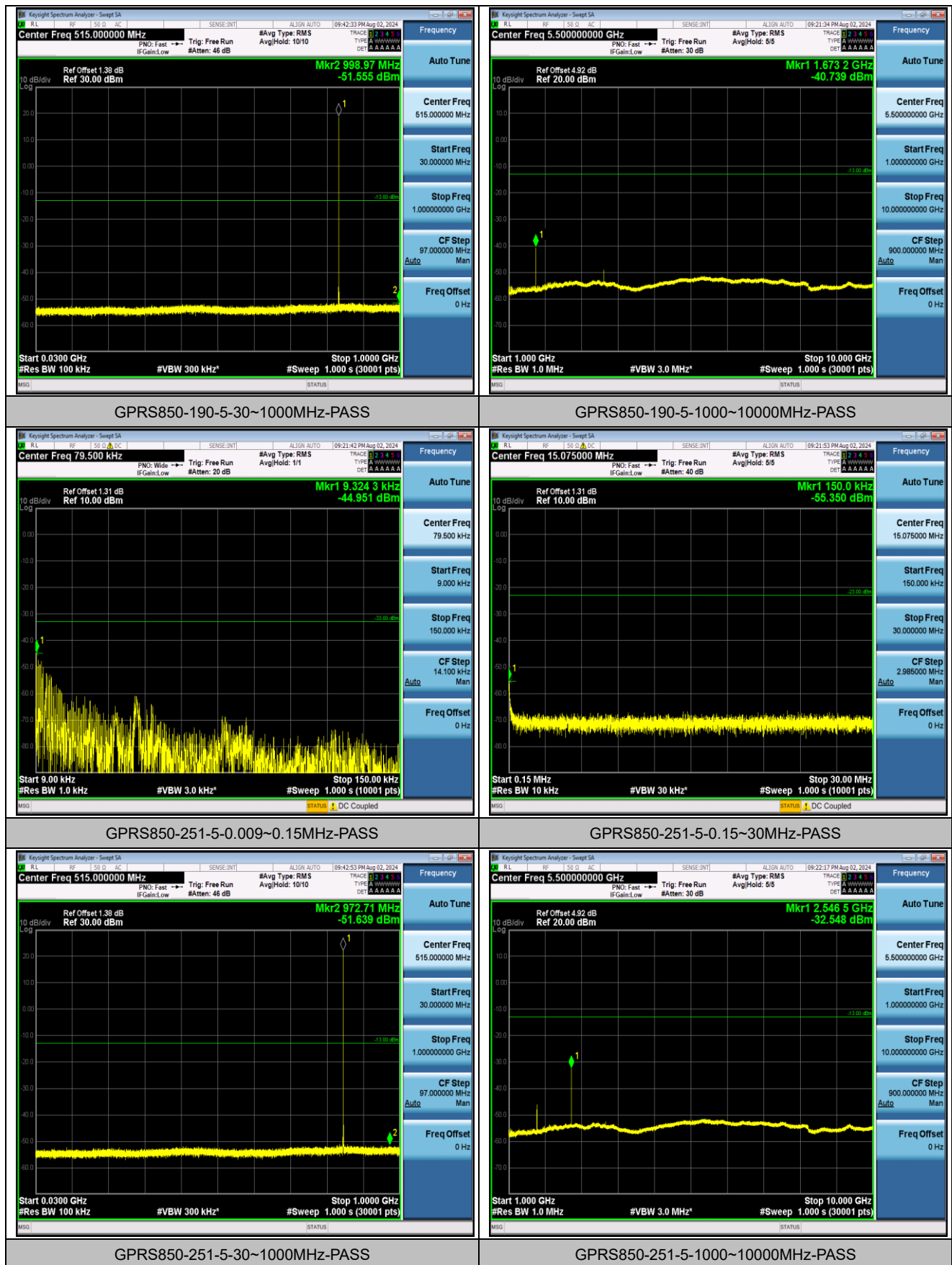
Test Graphs

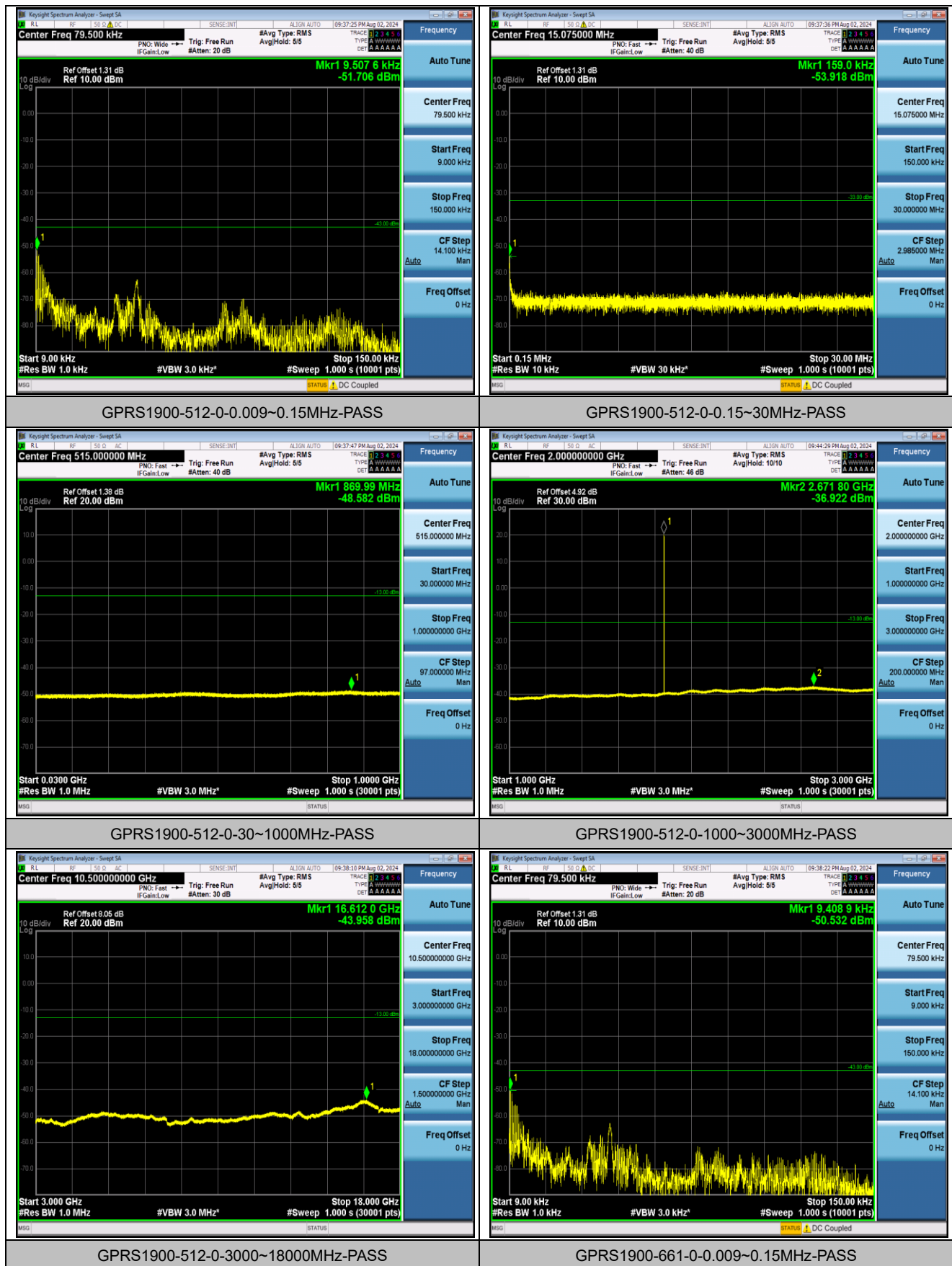


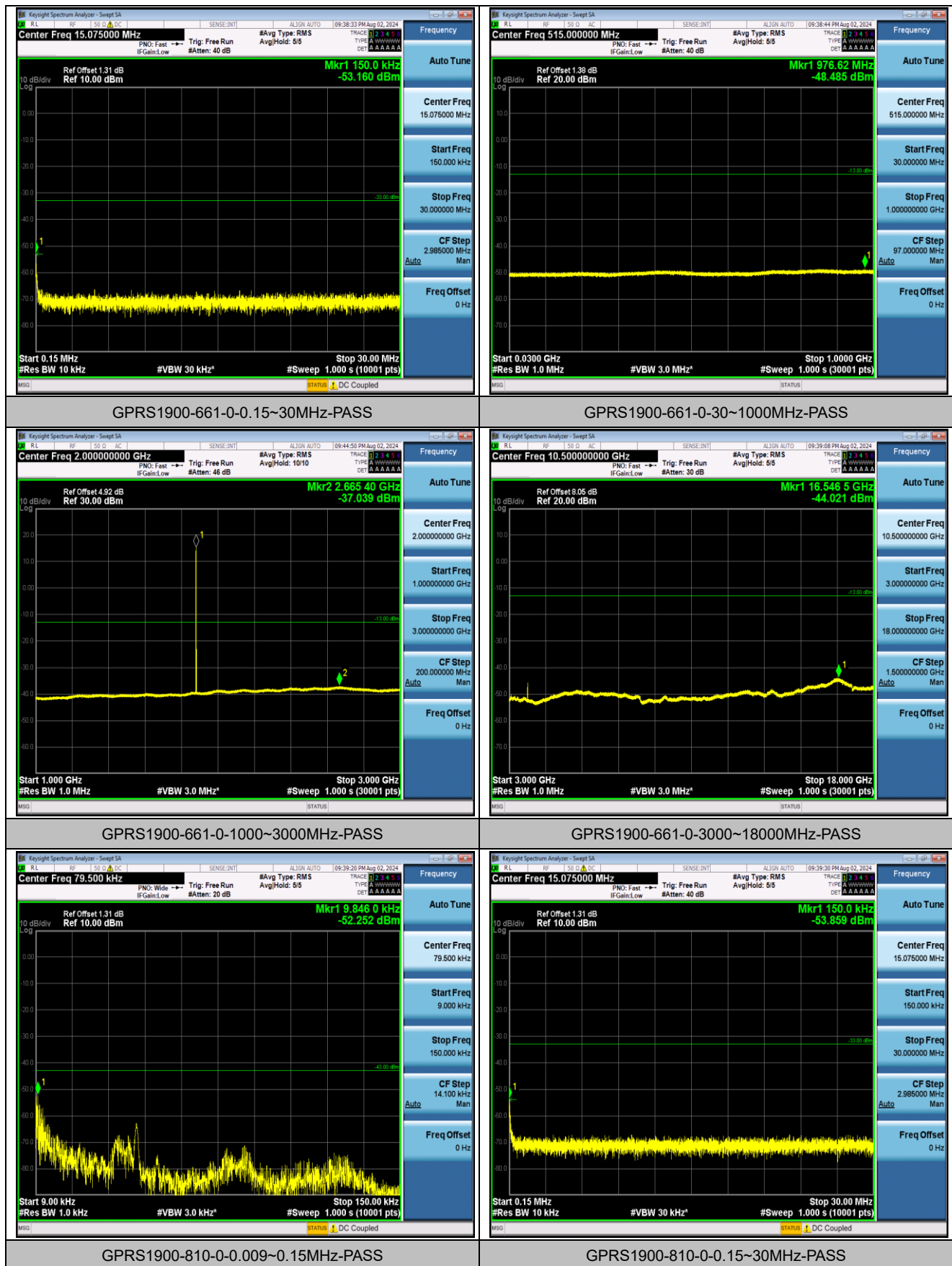
Conducted Spurious Emission

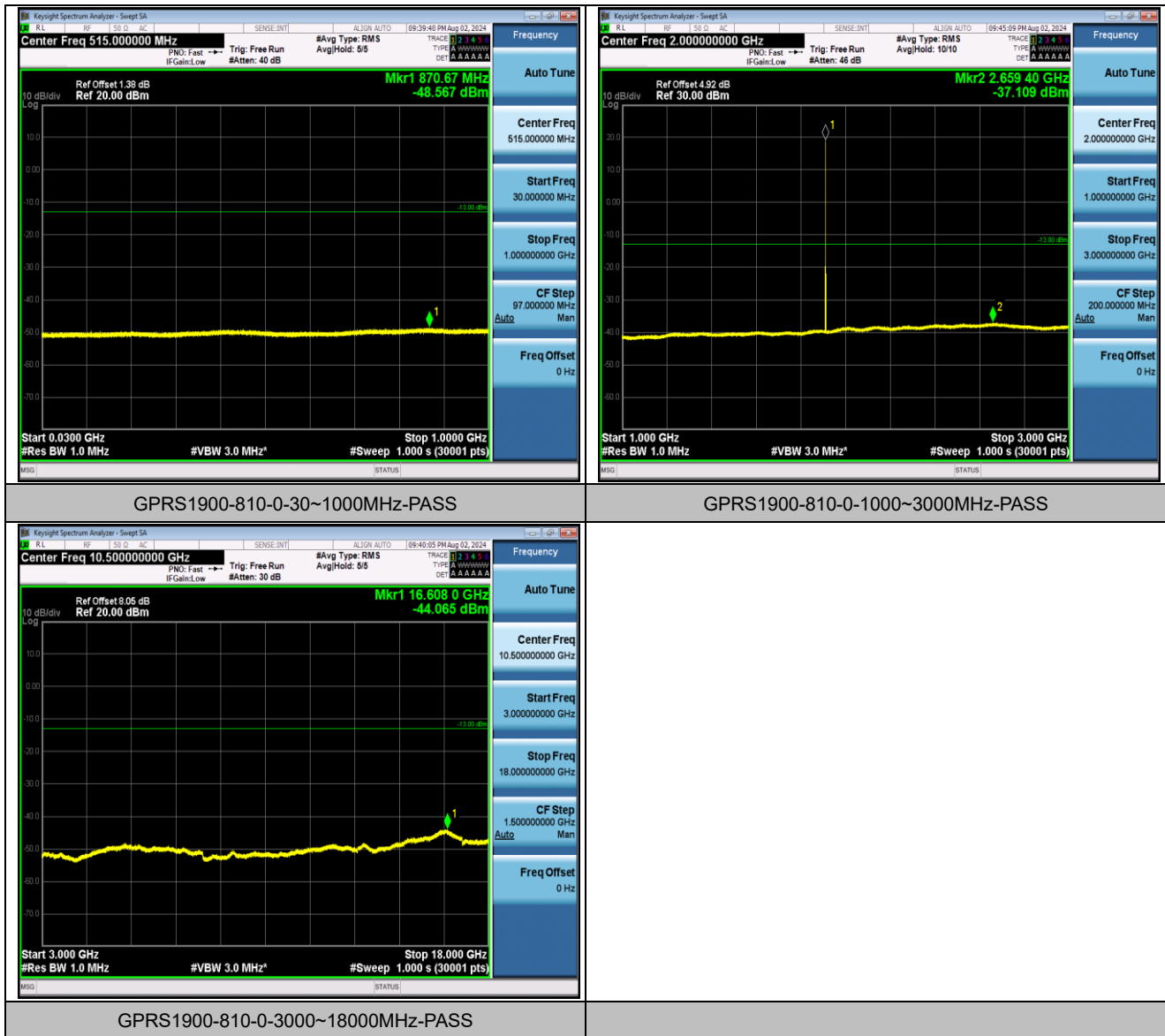
Test Graphs











Frequency Stability

Test Result

Voltage							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GPRS850	190	VN	NT	-2.45	-0.002929	±2.5	PASS
GPRS850	190	VL	NT	-3.33	-0.003980	±2.5	PASS
GPRS850	190	VH	NT	-4.04	-0.004829	±2.5	PASS
GPRS1900	661	VN	NT	-18.37	-0.009771	--	PASS
GPRS1900	661	VL	NT	-18.44	-0.009809	--	PASS
GPRS1900	661	VH	NT	-17.34	-0.009223	--	PASS

Temperature							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GPRS850	190	NV	-30	-2.71	-0.003239	±2.5	PASS
GPRS850	190	NV	-20	-4.58	-0.005475	±2.5	PASS
GPRS850	190	NV	-10	-3.49	-0.004172	±2.5	PASS
GPRS850	190	NV	0	-3.52	-0.004208	±2.5	PASS
GPRS850	190	NV	10	-2.94	-0.003514	±2.5	PASS
GPRS850	190	NV	20	-3.07	-0.003670	±2.5	PASS
GPRS850	190	NV	30	-4.62	-0.005522	±2.5	PASS
GPRS850	190	NV	40	-4.26	-0.005092	±2.5	PASS
GPRS850	190	NV	50	-3.81	-0.004554	±2.5	PASS
GPRS1900	661	NV	-30	-18.63	-0.009910	--	PASS
GPRS1900	661	NV	-20	-18.50	-0.009840	--	PASS
GPRS1900	661	NV	-10	-18.98	-0.010096	--	PASS
GPRS1900	661	NV	0	-15.66	-0.008330	--	PASS
GPRS1900	661	NV	10	-17.92	-0.009532	--	PASS
GPRS1900	661	NV	20	-17.53	-0.009324	--	PASS
GPRS1900	661	NV	30	-17.76	-0.009447	--	PASS
GPRS1900	661	NV	40	-16.24	-0.008638	--	PASS
GPRS1900	661	NV	50	-18.47	-0.009824	--	PASS