

Appendix A: Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	3	1	33.71	30.46	38.5	PASS
GPRS850	128	3	2	33.02	29.77	38.5	PASS
GPRS850	128	3	3	32.32	29.07	38.5	PASS
GPRS850	128	3	4	31.84	28.59	38.5	PASS
GPRS850	190	3	1	33.32	30.07	38.5	PASS
GPRS850	190	3	2	32.89	29.64	38.5	PASS
GPRS850	190	3	3	31.90	28.65	38.5	PASS
GPRS850	190	3	4	31.34	28.09	38.5	PASS
GPRS850	251	3	1	32.72	29.47	38.5	PASS
GPRS850	251	3	2	32.37	29.12	38.5	PASS
GPRS850	251	3	3	31.56	28.31	38.5	PASS
GPRS850	251	3	4	31.68	28.43	38.5	PASS
GPRS1900	512	0	1	26.53	27.43	33	PASS
GPRS1900	512	0	2	26.37	27.27	33	PASS
GPRS1900	512	0	3	26.11	27.01	33	PASS
GPRS1900	512	0	4	25.95	26.85	33	PASS
GPRS1900	661	0	1	26.48	27.38	33	PASS
GPRS1900	661	0	2	26.34	27.24	33	PASS
GPRS1900	661	0	3	26.09	26.99	33	PASS
GPRS1900	661	0	4	25.95	26.85	33	PASS
GPRS1900	810	0	1	26.12	27.02	33	PASS
GPRS1900	810	0	2	26.00	26.9	33	PASS
GPRS1900	810	0	3	25.80	26.7	33	PASS
GPRS1900	810	0	4	25.66	26.56	33	PASS

Remark: EIRP (dBm) = Conducted power (dBm) + Antenna Gain (dBi). (For GSM1900)

ERP (dBm) = EIRP (dBm) - 2.15 (dB). (For GSM850)

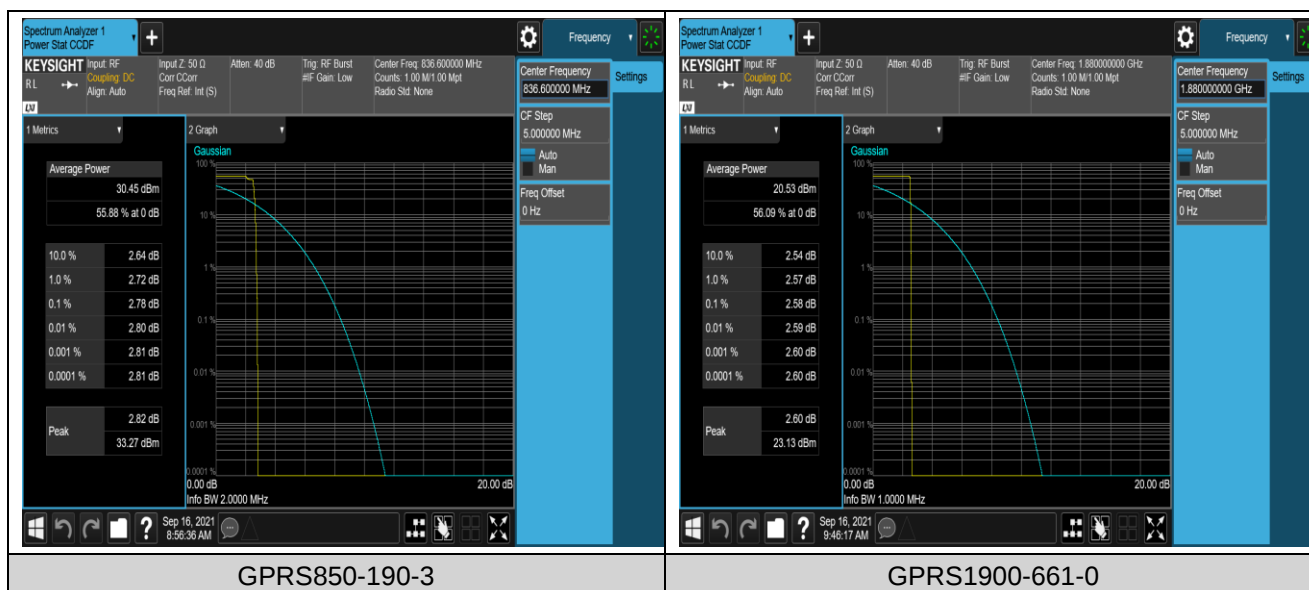
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	PCL	Result(dB)	Limit(dB)	Verdict
GPRS850	190	3	2.78	13	PASS
GPRS1900	661	0	2.58	13	PASS

Remark: All channel and all modulation had been tested, but only the worst case data displayed in this report.

Test Graphs

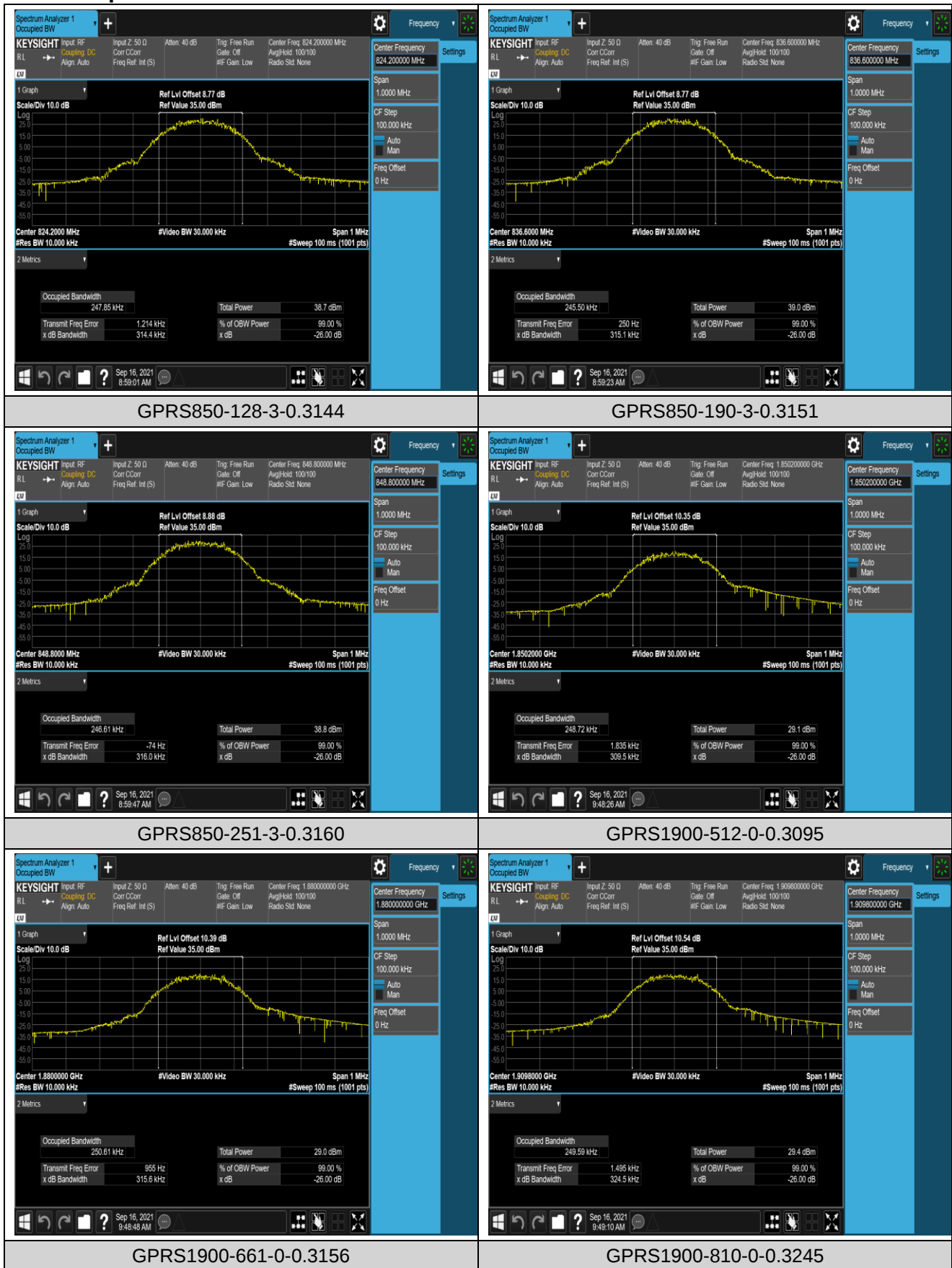


Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
GPRS850	128	3	0.24785	0.3144	PASS
GPRS850	190	3	0.24550	0.3151	PASS
GPRS850	251	3	0.24661	0.3160	PASS
GPRS1900	512	0	0.24872	0.3095	PASS
GPRS1900	661	0	0.25061	0.3156	PASS
GPRS1900	810	0	0.24959	0.3245	PASS

Test Graphs

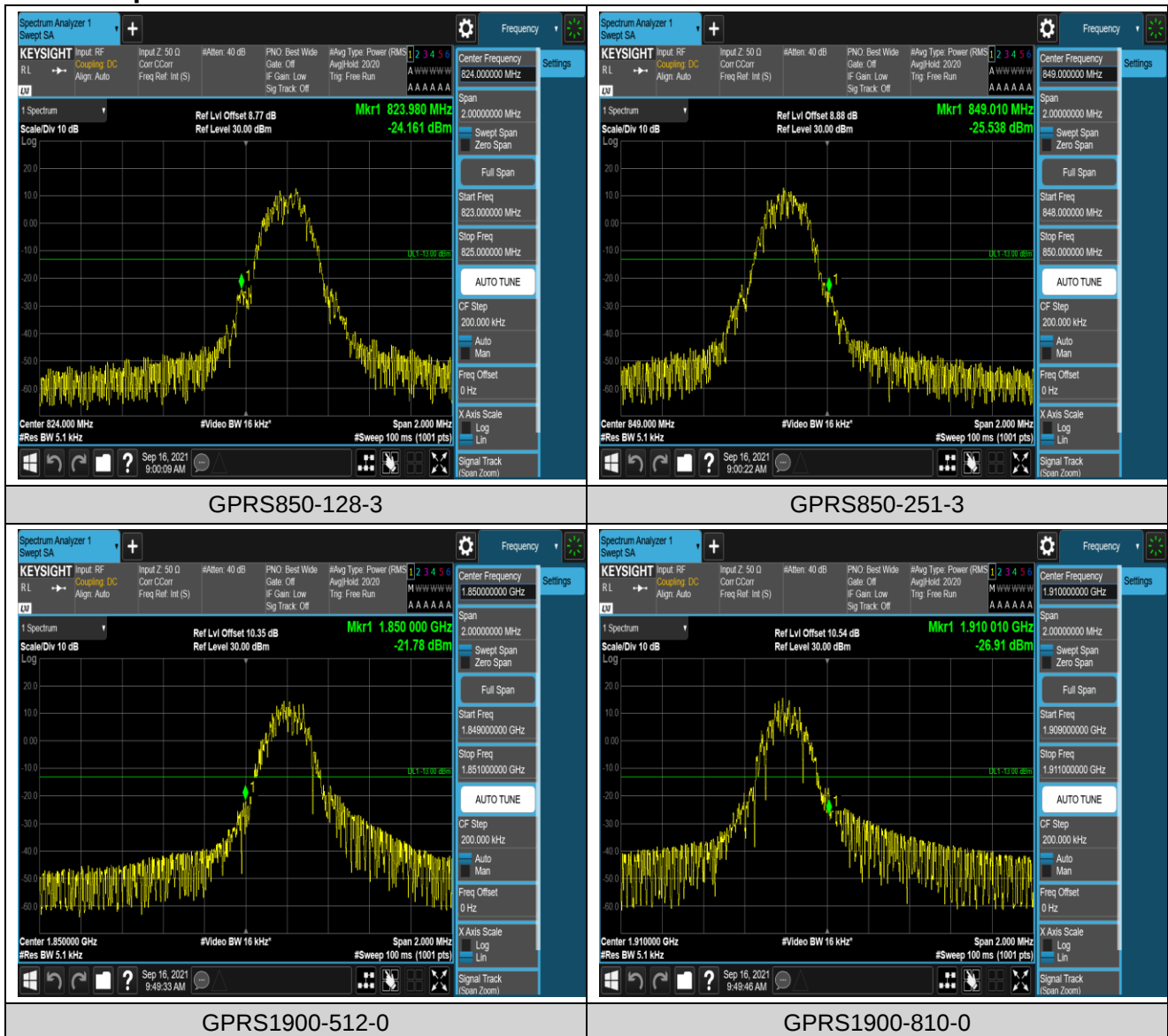


Appendix D: Band Edge

Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GPRS850	128	3	823.98	-24.16	-13	PASS
GPRS850	251	3	849.01	-24.39	-13	PASS
GPRS1900	512	0	1850.00	-21.78	-13	PASS
GPRS1900	810	0	1910.01	-17.12	-13	PASS

Test Graphs



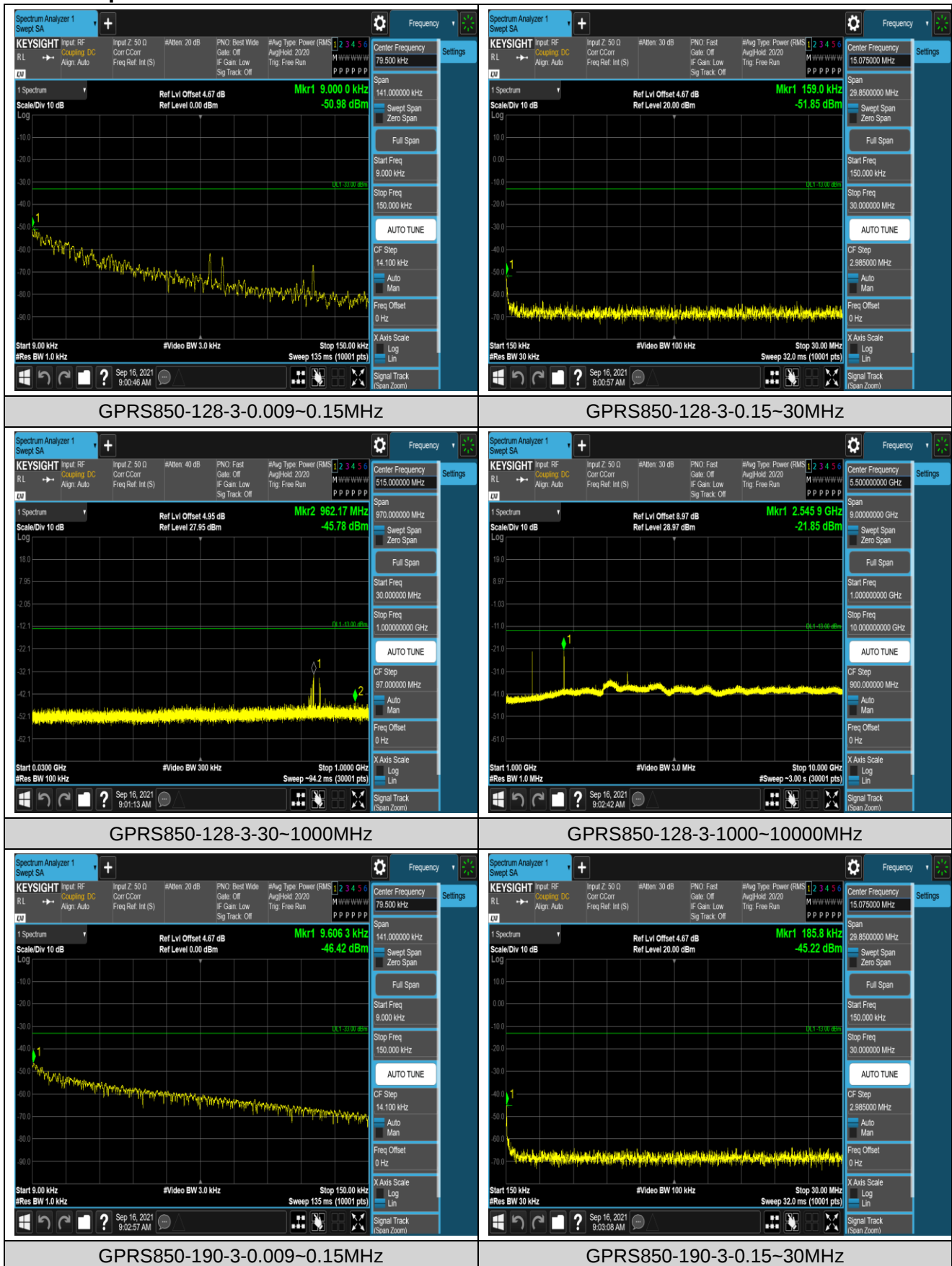
Appendix E: Conducted Spurious Emission

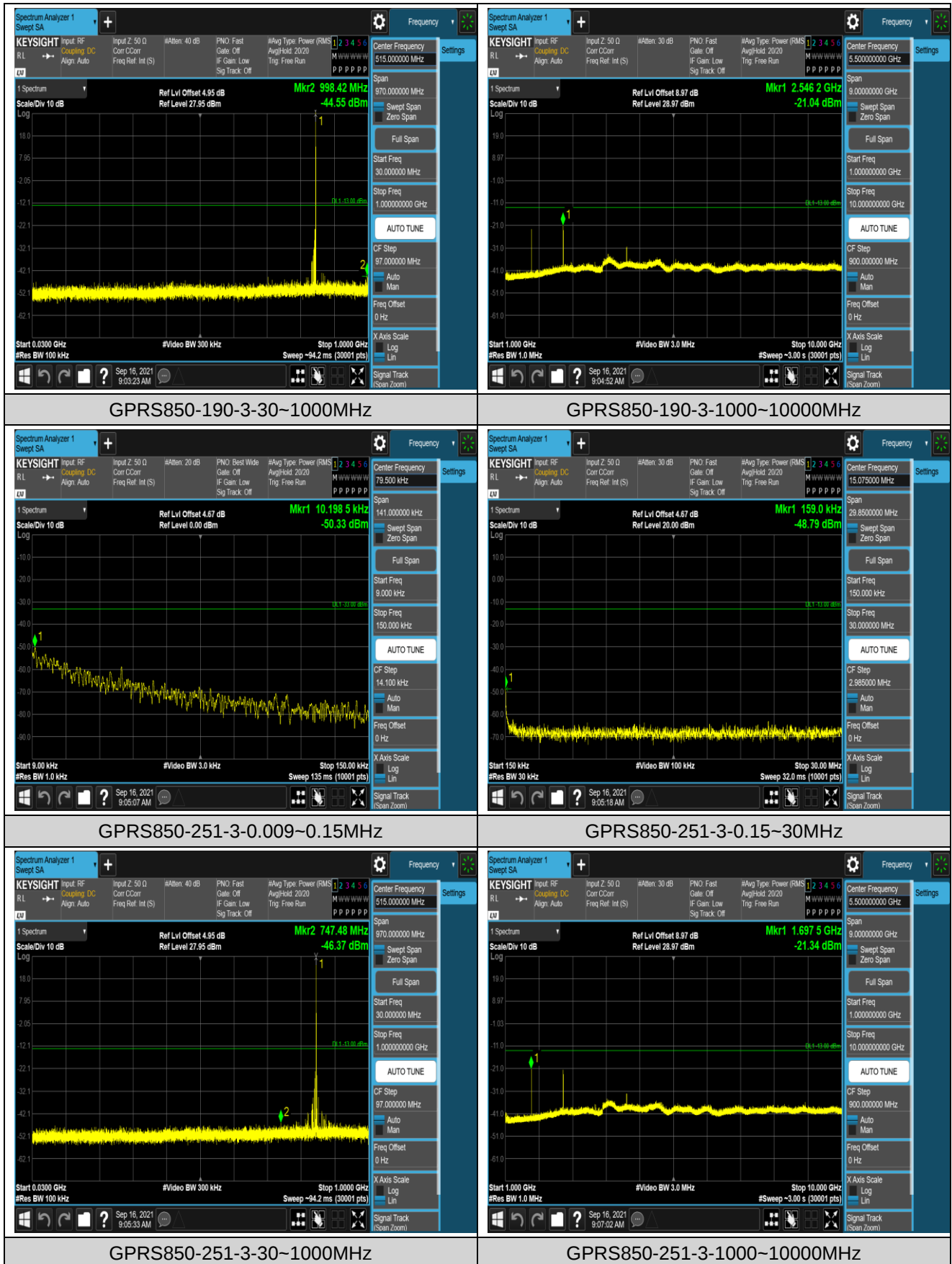
Test Result

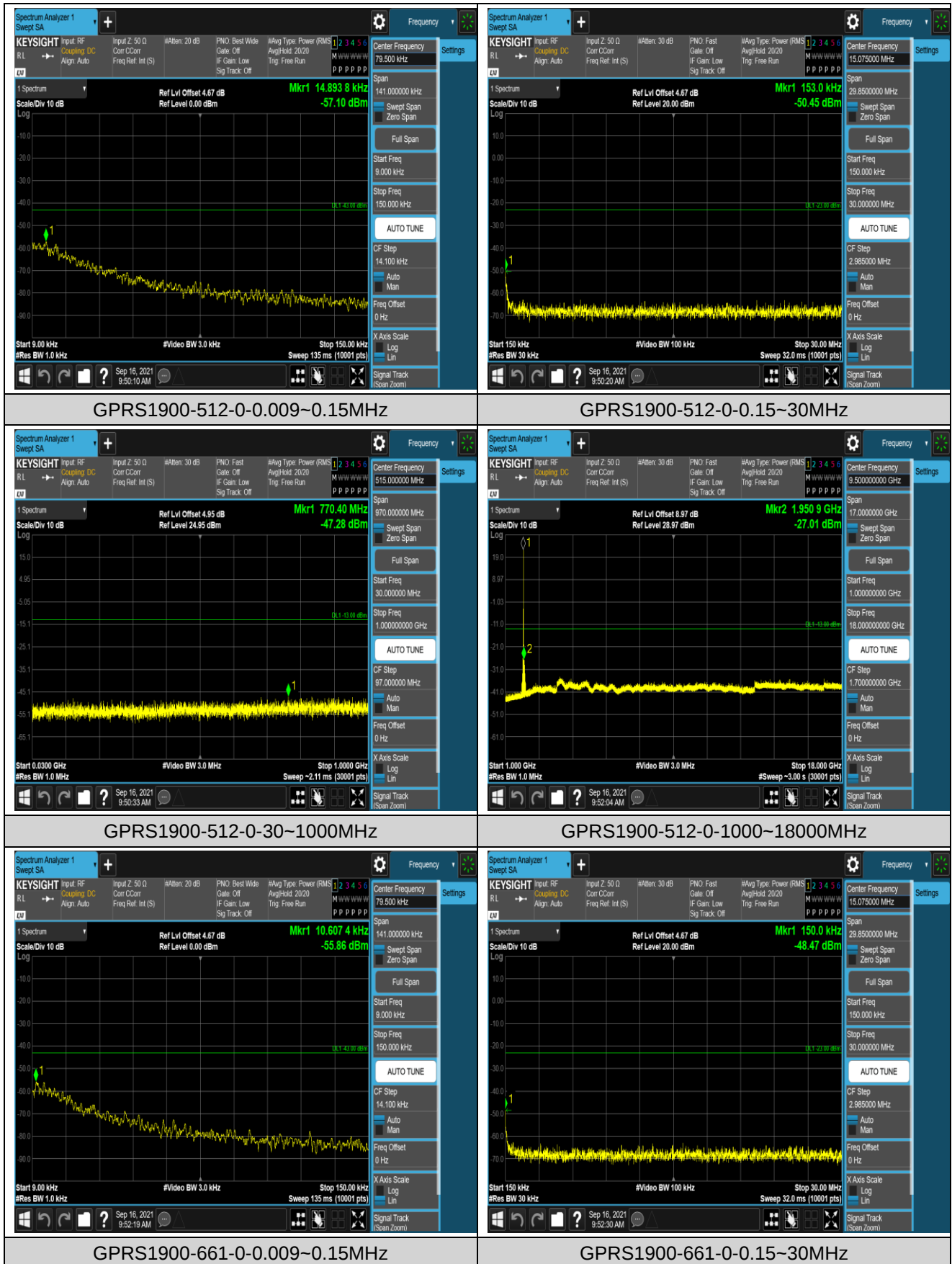
Band	Channel	PCL	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GPRS850	128	3	0.009~0.15MHz	0.01	-50.98	-33	PASS
GPRS850	128	3	0.15~30MHz	0.16	-51.86	-13	PASS
GPRS850	128	3	30~1000MHz	962.17	-45.78	-13	PASS
GPRS850	128	3	1000~10000MHz	2545.9	-21.85	-13	PASS
GPRS850	190	3	0.009~0.15MHz	0.01	-46.42	-33	PASS
GPRS850	190	3	0.15~30MHz	0.19	-45.22	-13	PASS
GPRS850	190	3	30~1000MHz	998.42	-44.55	-13	PASS
GPRS850	190	3	1000~10000MHz	2546.2	-21.04	-13	PASS
GPRS850	251	3	0.009~0.15MHz	0.01	-50.33	-33	PASS
GPRS850	251	3	0.15~30MHz	0.16	-48.79	-13	PASS
GPRS850	251	3	30~1000MHz	747.48	-46.37	-13	PASS
GPRS850	251	3	1000~10000MHz	1697.5	-21.34	-13	PASS
GPRS1900	512	0	0.009~0.15MHz	0.01	-57.1	-43	PASS
GPRS1900	512	0	0.15~30MHz	0.15	-50.45	-23	PASS
GPRS1900	512	0	30~1000MHz	770.4	-47.28	-13	PASS
GPRS1900	512	0	1000~18000MHz	1950.87	-27.01	-13	PASS
GPRS1900	661	0	0.009~0.15MHz	0.01	-55.86	-43	PASS
GPRS1900	661	0	0.15~30MHz	0.15	-48.47	-23	PASS
GPRS1900	661	0	30~1000MHz	858.25	-46.67	-13	PASS
GPRS1900	661	0	1000~18000MHz	1988.27	-32.76	-13	PASS
GPRS1900	810	0	0.009~0.15MHz	0.01	-57.94	-43	PASS
GPRS1900	810	0	0.15~30MHz	0.17	-53.74	-23	PASS
GPRS1900	810	0	30~1000MHz	436.75	-47.06	-13	PASS
GPRS1900	810	0	1000~18000MHz	3812.93	-34.34	-13	PASS

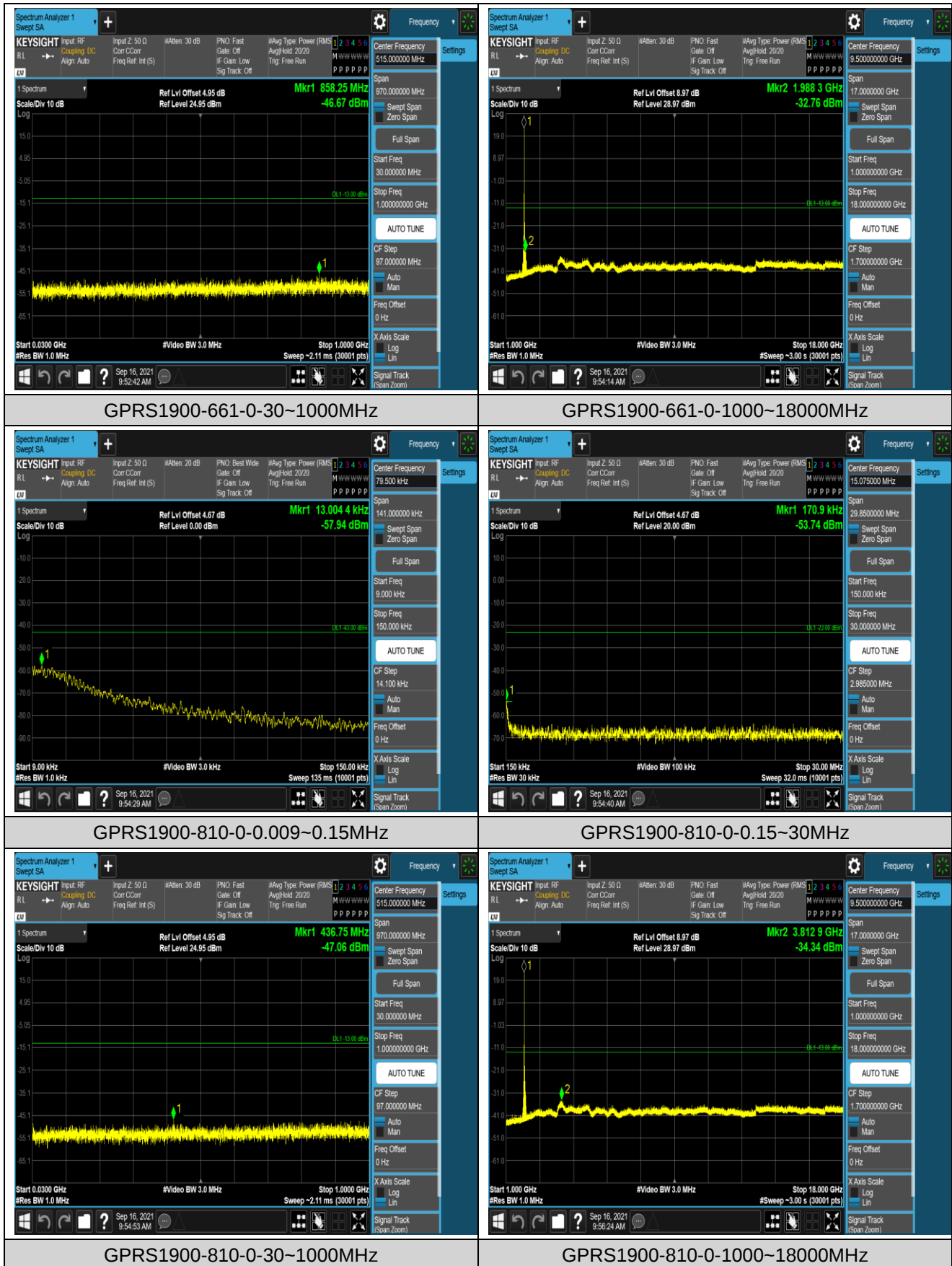
Remark: All channel and all modulation had been tested, but only the worst case data displayed in this report.

Test Graphs









Appendix F: Frequency Stability

Test Result

Reference Frequency: GPRS850 Middle channel=190 Frequency=836.6MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.7	-30	1.97	0.002355	±2.5	Pass
	-20	12.59	0.015049		
	-10	10.59	0.012658		
	0	12.72	0.015204		
	10	15.30	0.018288		
	20	14.98	0.017906		
	30	7.04	0.008415		
	40	12.46	0.014894		
	50	10.27	0.012276		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	3.29	0.003933	±2.5	Pass
	3.70	6.52	0.007793		
	4.20	0.65	0.000777		
Remark: All channel had been tested, but only the worst case data displayed in this report.					

Reference Frequency: GPRS1900 Middle channel=661 Frequency=1880MHz					
Temperature					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.7	-30	24.31	0.012931	Within authorized band for PCS 1900	Pass
	-20	29.99	0.015952		
	-10	51.43	0.027356		
	0	47.40	0.025213		
	10	44.36	0.023596		
	20	39.49	0.021005		
	30	37.10	0.019734		
	40	30.38	0.016160		
	50	37.97	0.020197		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	22.50	0.011968	Within authorized band for PCS 1900	Pass
	3.70	29.09	0.015473		
	4.20	29.41	0.015644		
Remark: All channel had been tested, but only the worst case data displayed in this report.					

Appendix G: Modulation Characteristics

Test Result

Band	Channel	Result	Verdict
GPRS850	190	PASS	PASS
GPRS1900	661	PASS	PASS

Remark: All channel had been tested, but only the worst case data displayed in this report.

Test Graphs

