

Appendix A: Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Channel	PCL	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GSM850	128	5	32.73	30.35	38.45	PASS
GSM850	190	5	32.86	30.48	38.45	PASS
GSM850	251	5	32.85	30.47	38.45	PASS
GSM1900	512	0	29.32	29.74	33.00	PASS
GSM1900	661	0	29.44	29.86	33.00	PASS
GSM1900	810	0	29.43	29.85	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	5	1	32.71	30.33	38.45	PASS
GPRS850	128	5	2	31.64	29.26	38.45	PASS
GPRS850	128	5	3	29.55	27.17	38.45	PASS
GPRS850	128	5	4	28.65	26.27	38.45	PASS
GPRS850	190	5	1	32.87	30.49	38.45	PASS
GPRS850	190	5	2	31.82	29.44	38.45	PASS
GPRS850	190	5	3	29.76	27.38	38.45	PASS
GPRS850	190	5	4	28.83	26.45	38.45	PASS
GPRS850	251	5	1	32.87	30.49	38.45	PASS
GPRS850	251	5	2	31.83	29.45	38.45	PASS
GPRS850	251	5	3	29.74	27.36	38.45	PASS
GPRS850	251	5	4	28.78	26.4	38.45	PASS
GPRS1900	512	0	1	29.34	29.76	33.00	PASS
GPRS1900	512	0	2	28.40	28.82	33.00	PASS
GPRS1900	512	0	3	26.27	26.69	33.00	PASS
GPRS1900	512	0	4	25.37	25.79	33.00	PASS
GPRS1900	661	0	1	29.50	29.92	33.00	PASS
GPRS1900	661	0	2	28.53	28.95	33.00	PASS
GPRS1900	661	0	3	26.34	26.76	33.00	PASS
GPRS1900	661	0	4	25.43	25.85	33.00	PASS
GPRS1900	810	0	1	29.51	29.93	33.00	PASS
GPRS1900	810	0	2	28.55	28.97	33.00	PASS
GPRS1900	810	0	3	26.35	26.77	33.00	PASS
GPRS1900	810	0	4	25.44	25.86	33.00	PASS

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

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

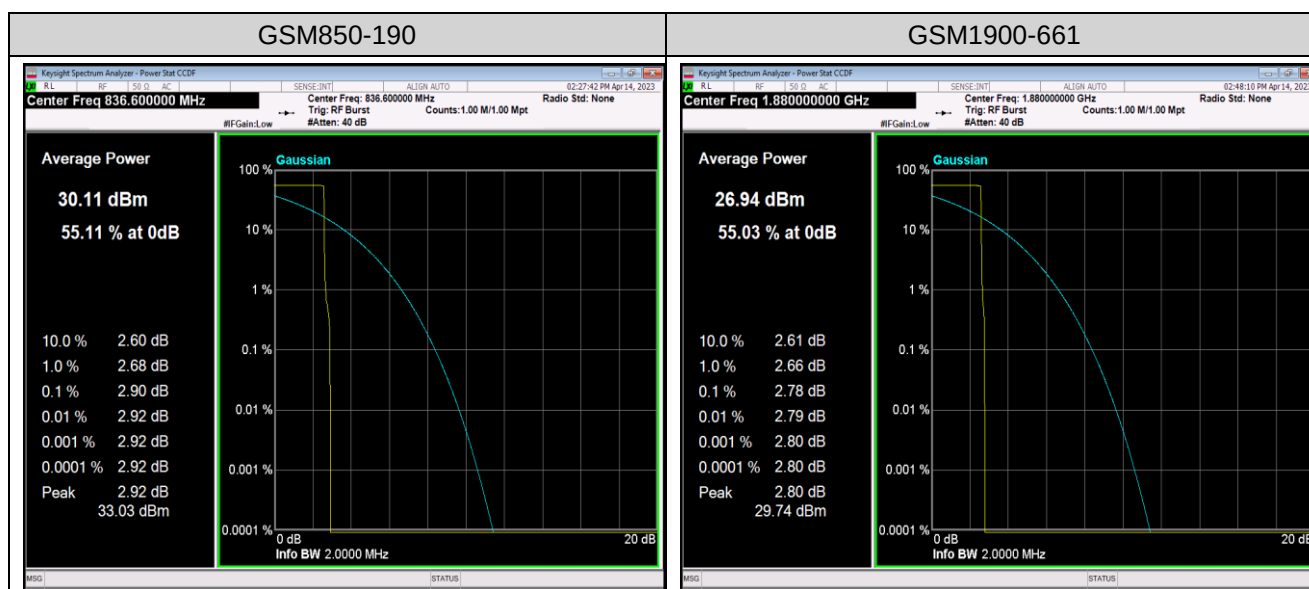
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	PCL	Result(dB)	Limit(dB)	Verdict
GSM850	190	5	2.9	13	PASS
GSM1900	661	0	2.78	13	PASS

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

Test Graphs

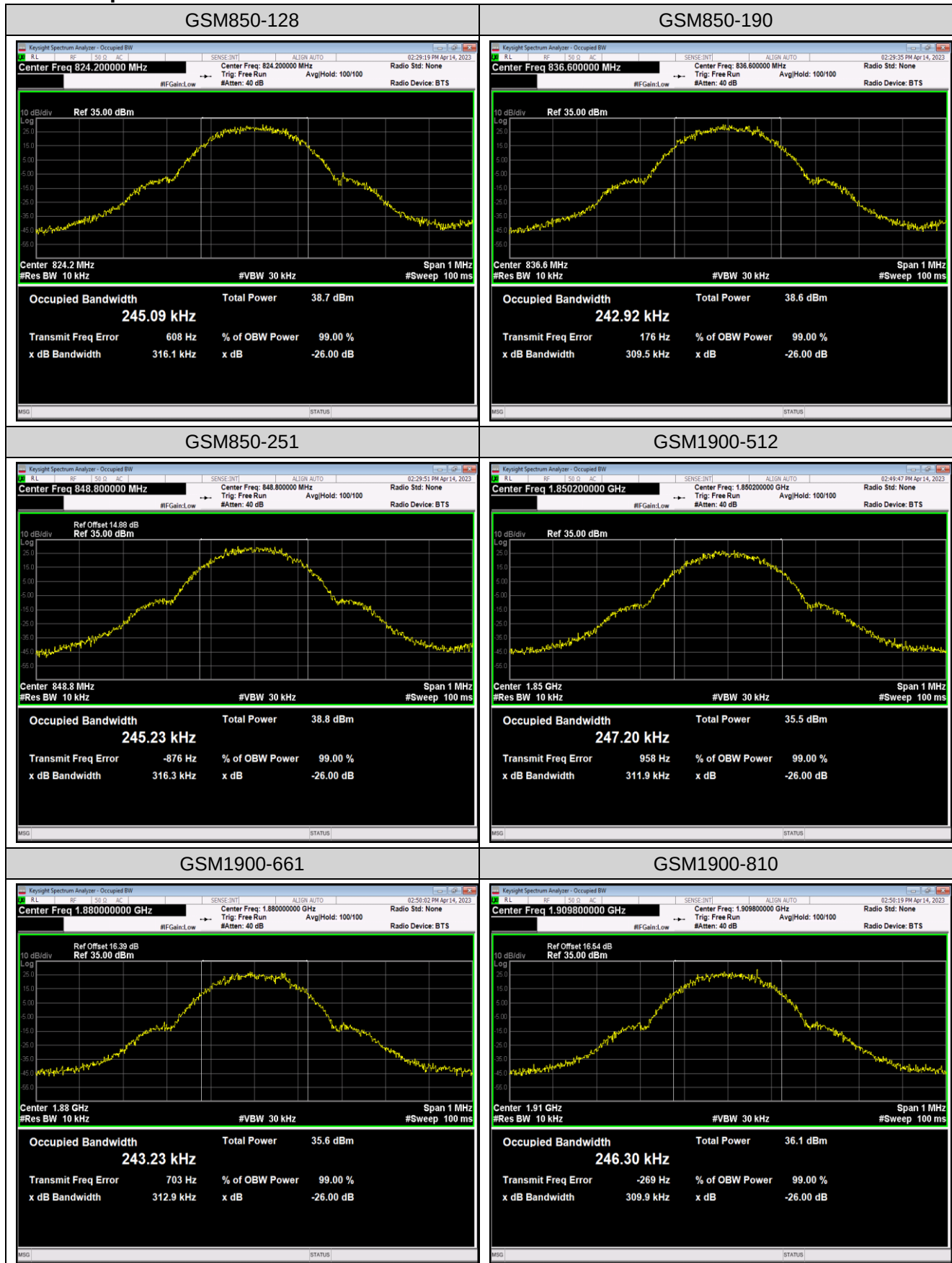


Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	5	0.24509	0.3161	---	PASS
GSM850	190	5	0.24292	0.3095	---	PASS
GSM850	251	5	0.24523	0.3163	---	PASS
GSM1900	512	0	0.24720	0.3119	---	PASS
GSM1900	661	0	0.24323	0.3129	---	PASS
GSM1900	810	0	0.24630	0.3099	---	PASS

Test Graphs

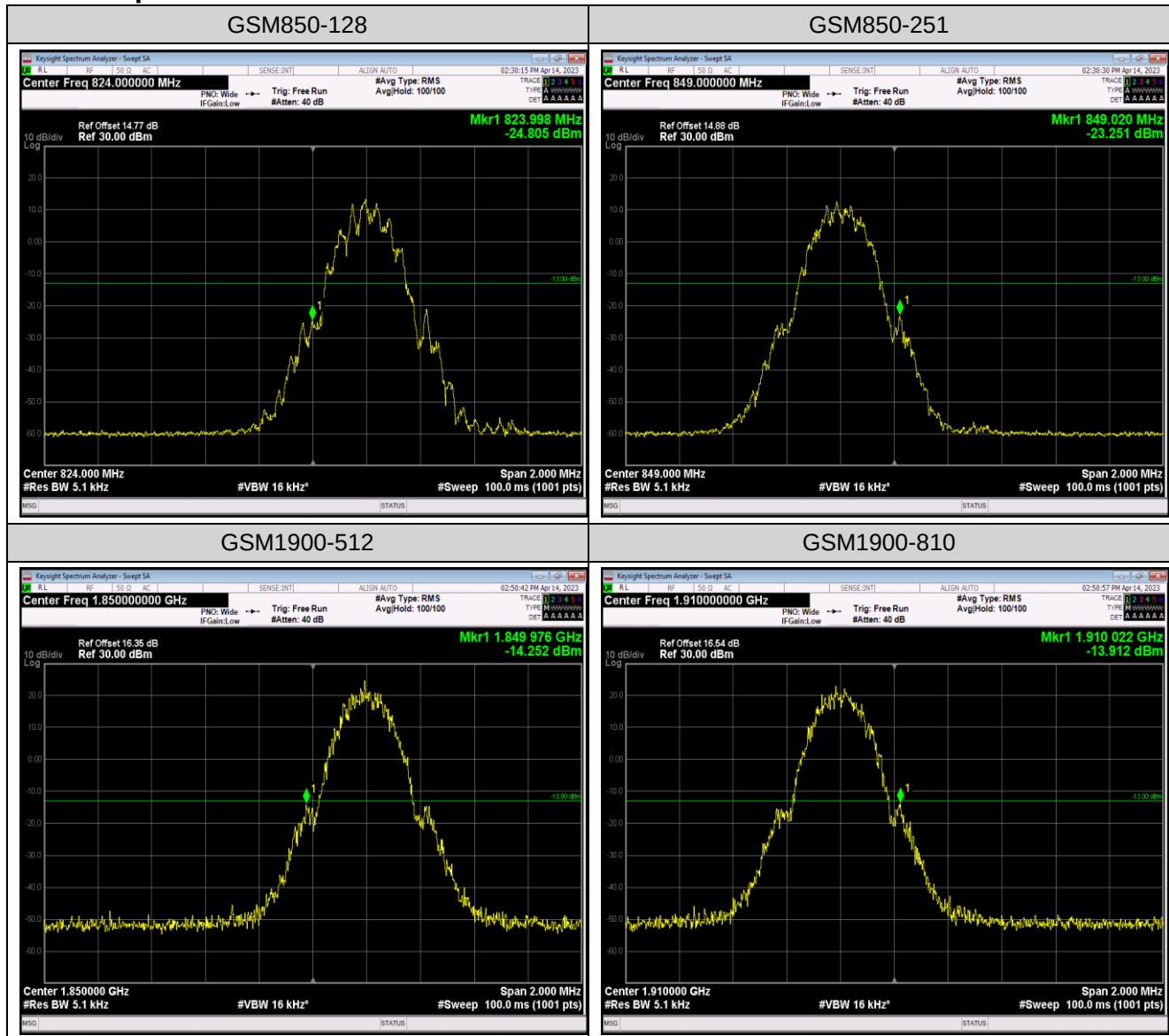


Appendix D: Band Edge

Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	5	824.00	-24.80	-13	PASS
GSM850	251	5	849.02	-23.25	-13	PASS
GSM1900	512	0	1849.98	-14.25	-13	PASS
GSM1900	810	0	1910.02	-13.91	-13	PASS

Test Graphs



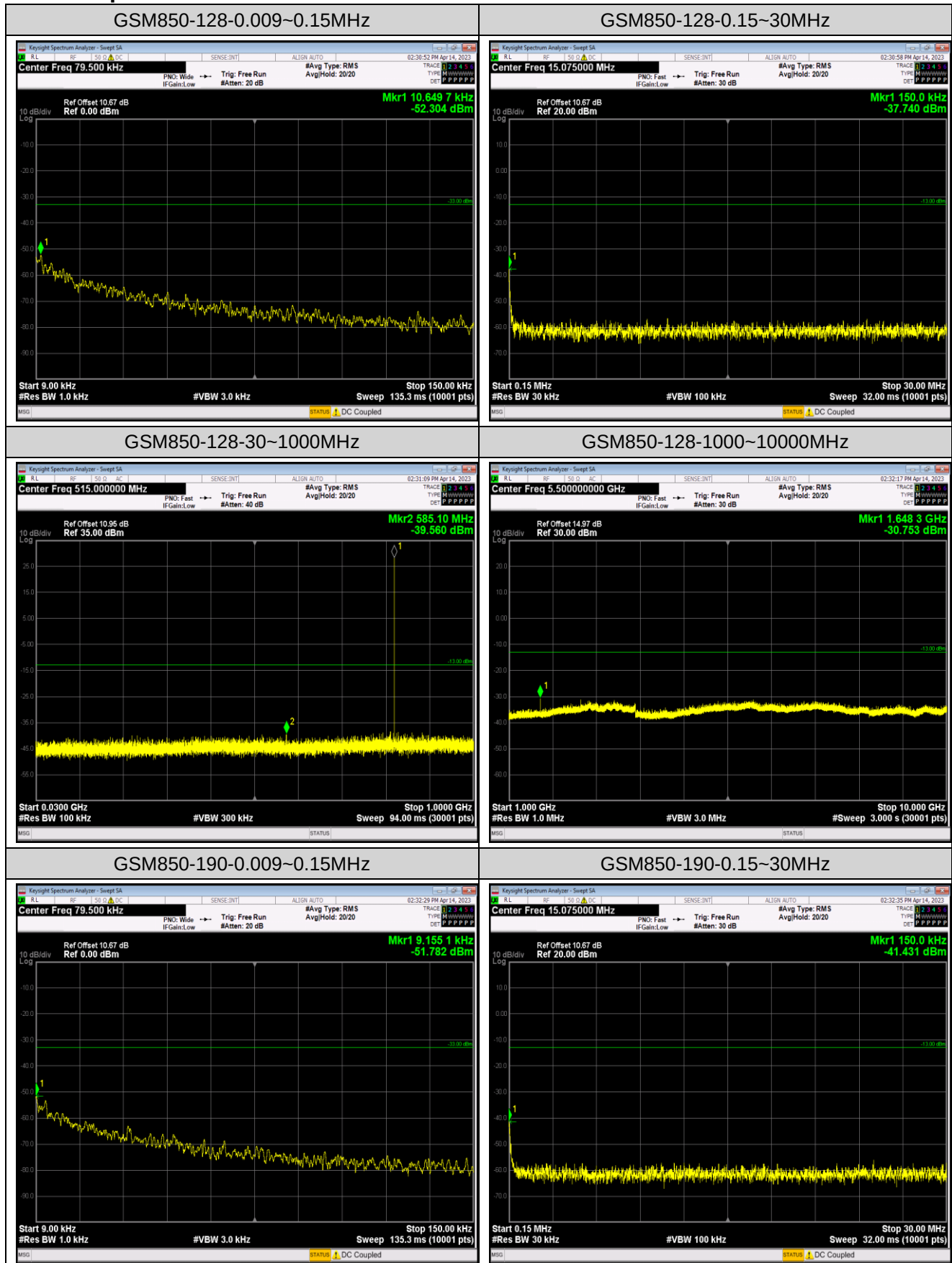
Appendix E: Conducted Spurious Emission

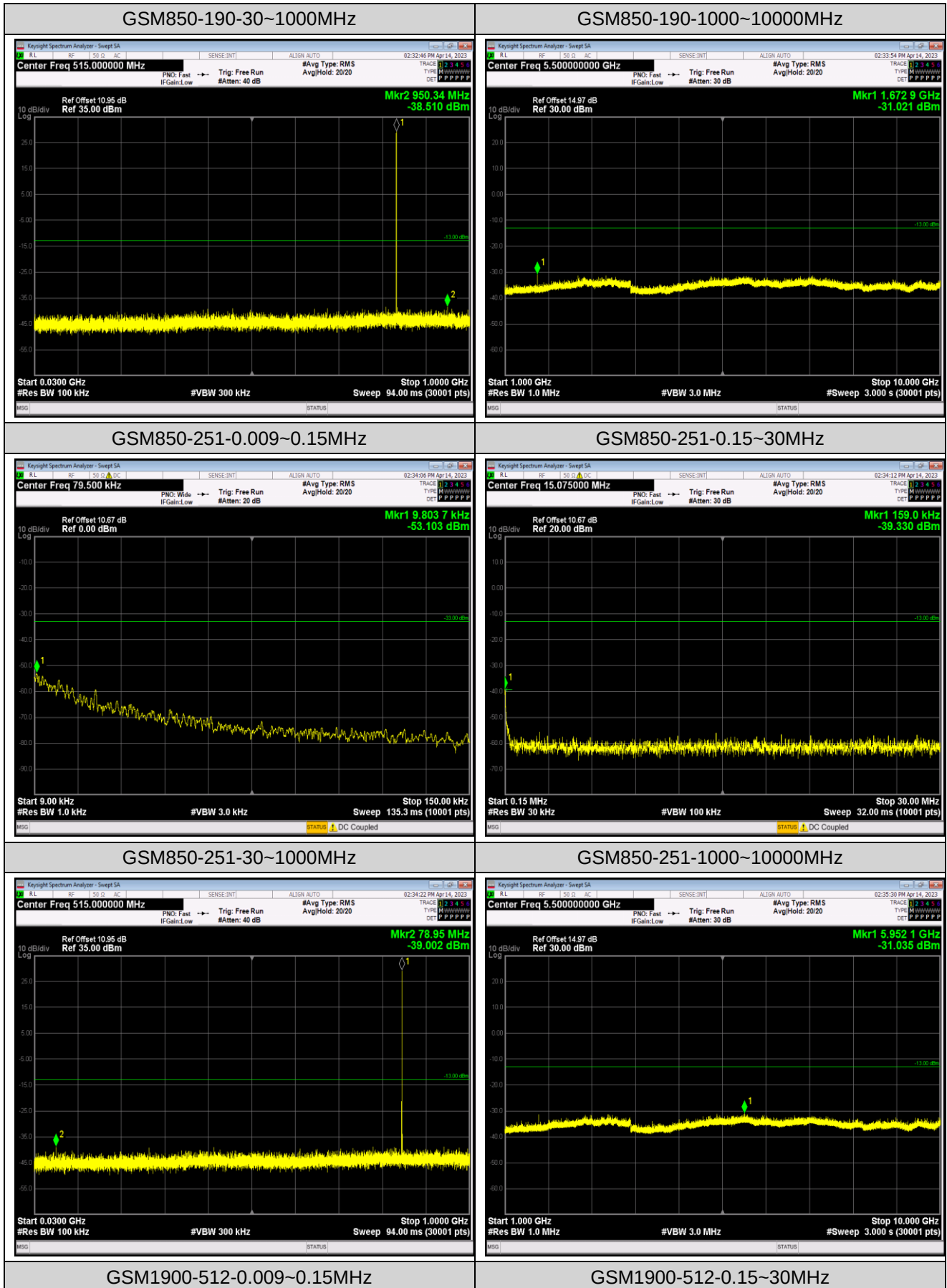
Test Result

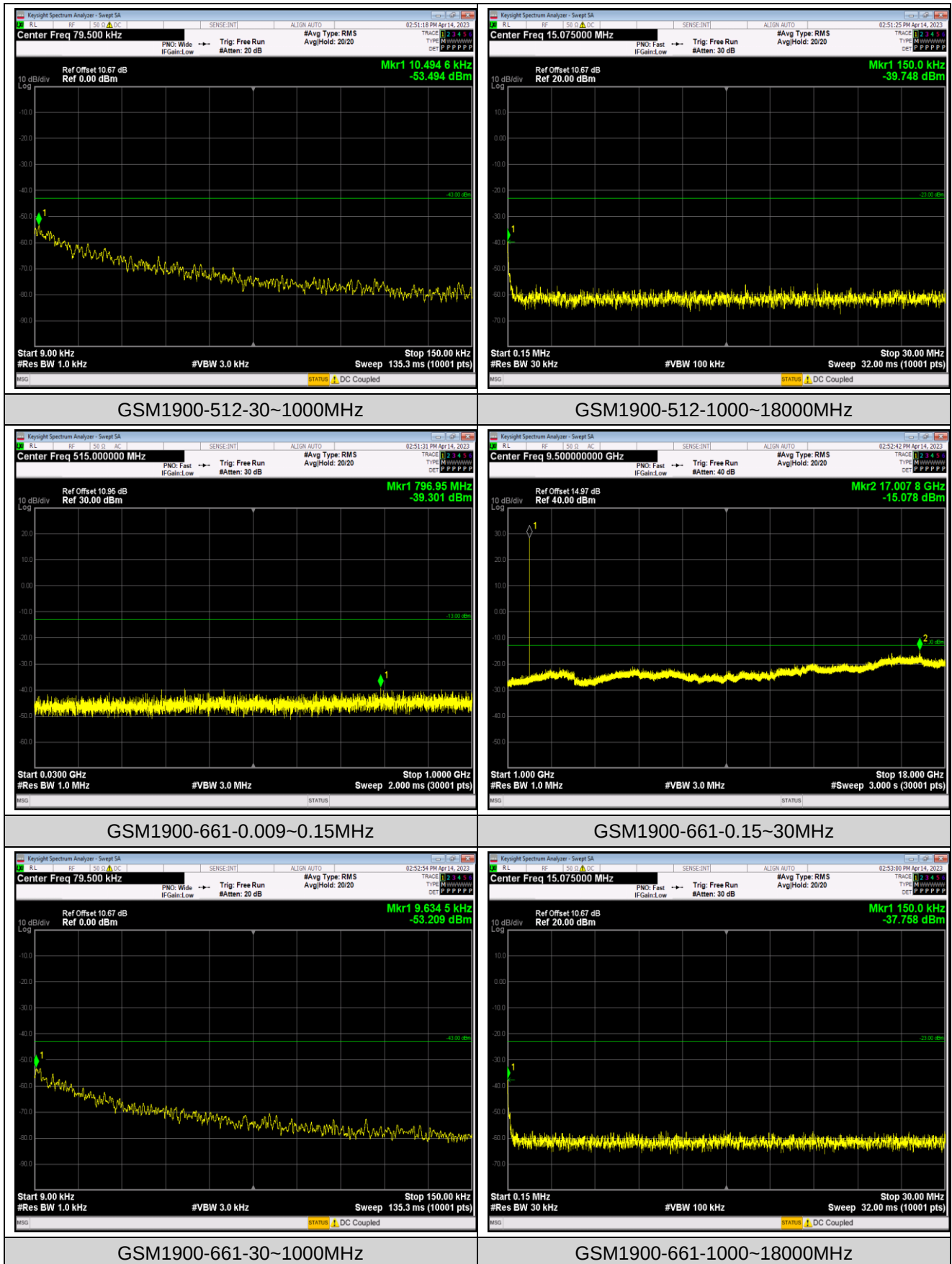
Band	Channel	PCL	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	5	0.009~0.15MHz	0.01	-52.3	-33	PASS
GSM850	128	5	0.15~30MHz	0.15	-37.74	-13	PASS
GSM850	128	5	30~1000MHz	585.1	-39.56	-13	PASS
GSM850	128	5	1000~10000MHz	1648.3	-30.75	-13	PASS
GSM850	190	5	0.009~0.15MHz	0.01	-51.78	-33	PASS
GSM850	190	5	0.15~30MHz	0.15	-41.43	-13	PASS
GSM850	190	5	30~1000MHz	950.34	-38.51	-13	PASS
GSM850	190	5	1000~10000MHz	1672.9	-31.02	-13	PASS
GSM850	251	5	0.009~0.15MHz	0.01	-53.1	-33	PASS
GSM850	251	5	0.15~30MHz	0.16	-39.33	-13	PASS
GSM850	251	5	30~1000MHz	78.95	-39	-13	PASS
GSM850	251	5	1000~10000MHz	5952.1	-31.04	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-53.49	-43	PASS
GSM1900	512	0	0.15~30MHz	0.15	-39.75	-23	PASS
GSM1900	512	0	30~1000MHz	796.95	-39.3	-13	PASS
GSM1900	512	0	1000~18000MHz	17007.77	-15.08	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-53.21	-43	PASS
GSM1900	661	0	0.15~30MHz	0.15	-37.76	-23	PASS
GSM1900	661	0	30~1000MHz	847.45	-39.79	-13	PASS
GSM1900	661	0	1000~18000MHz	16972.07	-16.3	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-52.73	-43	PASS
GSM1900	810	0	0.15~30MHz	0.15	-41.03	-23	PASS
GSM1900	810	0	30~1000MHz	776.06	-39.27	-13	PASS
GSM1900	810	0	1000~18000MHz	16986.23	-16.77	-13	PASS

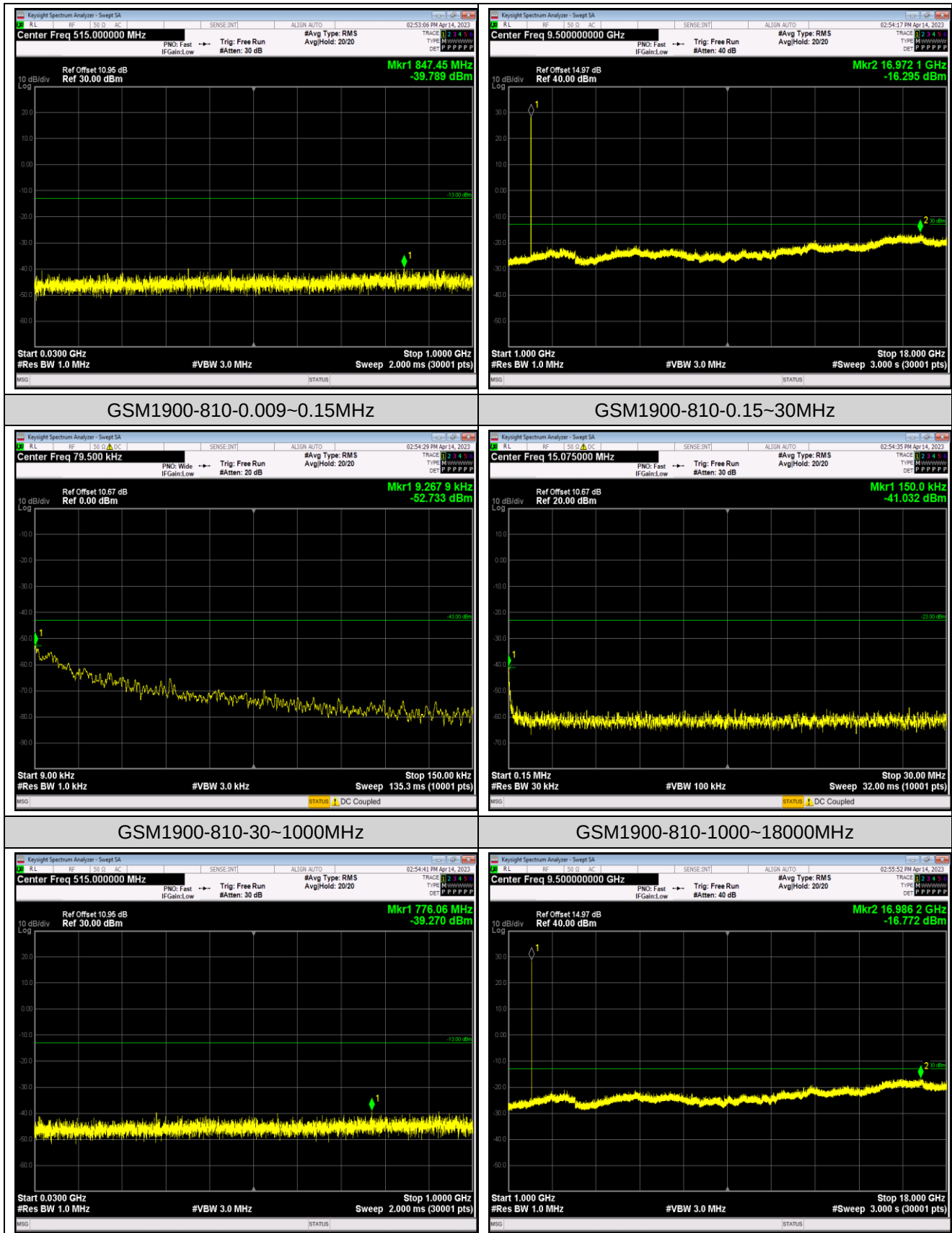
Remark: All channel and all modulation had been tested, but only the worst case data displayed in this report.

Test Graphs









Appendix F: Frequency Stability

Test Result

Reference Frequency: GSM850 Middle channel=190 Frequency=836.6MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	-18.69	-0.022340	±2.5	Pass
	-20	-20.53	-0.024540		
	-10	-21.44	-0.025628		
	0	-15.76	-0.018838		
	10	-16.72	-0.019986		
	20	-18.69	-0.022340		
	30	-15.08	-0.018025		
	40	-16.72	-0.019986		
	50	-18.44	-0.022042		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	-13.11	-0.015671	±2.5	Pass
	3.70	-12.85	-0.015360		
	4.20	-17.66	-0.021109		
Remark: All channel had been tested, but only the worst case data displayed in this report.					

Reference Frequency: PCS1900 Middle channel=661 Frequency=1880MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	-35.58	-0.018926	Within authorized band for PCS 1900	Pass
	-20	-25.80	-0.013723		
	-10	-31.22	-0.016606		
	0	-20.76	-0.011043		
	10	-23.99	-0.012761		
	20	-28.44	-0.015128		
	30	-33.58	-0.017862		
	40	-22.70	-0.012074		
	50	-27.93	-0.014856		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	-24.57	-0.013069	Within authorized band for PCS 1900	Pass
	3.70	-22.31	-0.011867		
	4.20	-29.77	-0.015835		
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
GSM850	190	PASS	PASS
GSM1900	661	PASS	PASS

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

Test Graphs

