

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	33.46	28.85	38.45	PASS
GSM850	190	5	33.54	28.93	38.45	PASS
GSM850	251	5	33.24	28.63	38.45	PASS
GSM1900	512	0	30.09	31.16	33.00	PASS
GSM1900	661	0	30.22	31.29	33.00	PASS
GSM1900	810	0	30.27	31.34	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	5	1	33.48	28.87	38.45	PASS
GPRS850	128	5	2	31.32	26.71	38.45	PASS
GPRS850	128	5	3	29.96	25.35	38.45	PASS
GPRS850	128	5	4	28.34	23.73	38.45	PASS
GPRS850	190	5	1	33.55	28.94	38.45	PASS
GPRS850	190	5	2	31.53	26.92	38.45	PASS
GPRS850	190	5	3	30.23	25.62	38.45	PASS
GPRS850	190	5	4	28.59	23.98	38.45	PASS
GPRS850	251	5	1	33.24	28.63	38.45	PASS
GPRS850	251	5	2	31.29	26.68	38.45	PASS
GPRS850	251	5	3	30.05	25.44	38.45	PASS
GPRS850	251	5	4	28.33	23.72	38.45	PASS
GPRS1900	512	0	1	30.20	31.27	33.00	PASS
GPRS1900	512	0	2	27.85	28.92	33.00	PASS
GPRS1900	512	0	3	26.59	27.66	33.00	PASS
GPRS1900	512	0	4	24.83	25.9	33.00	PASS
GPRS1900	661	0	1	30.27	31.34	33.00	PASS
GPRS1900	661	0	2	28.36	29.43	33.00	PASS
GPRS1900	661	0	3	27.08	28.15	33.00	PASS
GPRS1900	661	0	4	25.32	26.39	33.00	PASS
GPRS1900	810	0	1	30.33	31.4	33.00	PASS
GPRS1900	810	0	2	28.59	29.66	33.00	PASS
GPRS1900	810	0	3	27.37	28.44	33.00	PASS
GPRS1900	810	0	4	25.55	26.62	33.00	PASS

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

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

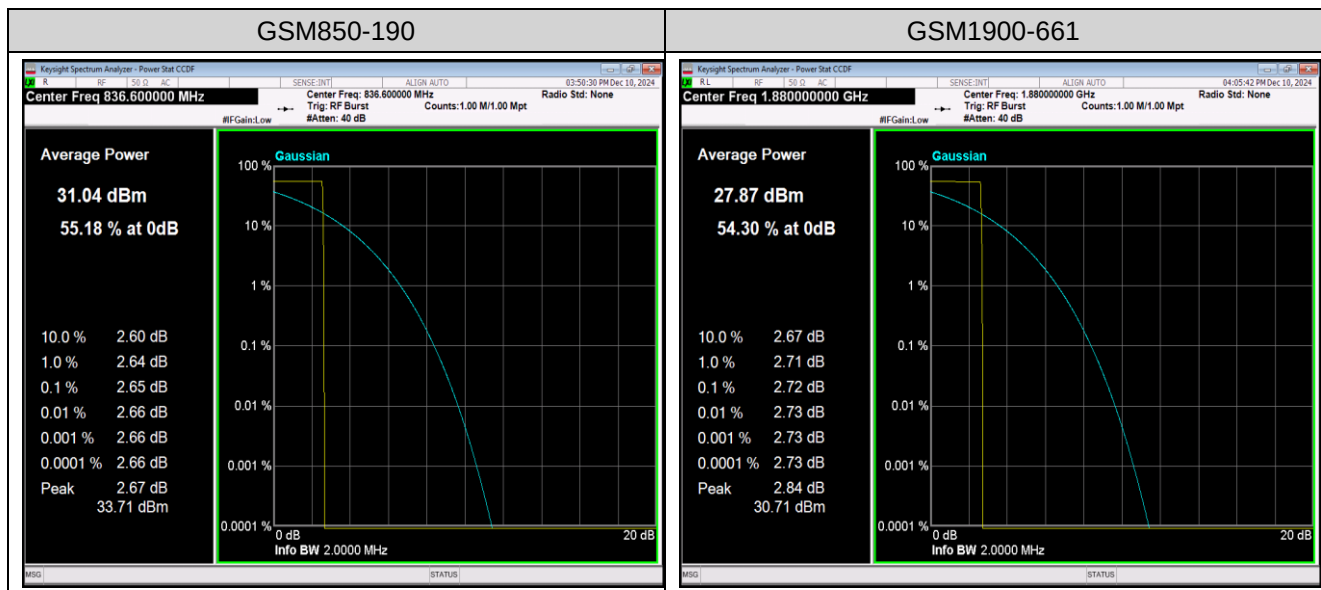
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	PCL	Result(dB)	Limit(dB)	Verdict
GSM850	190	5	2.65	13	PASS
GSM1900	661	0	2.72	13	PASS

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

Test Graphs

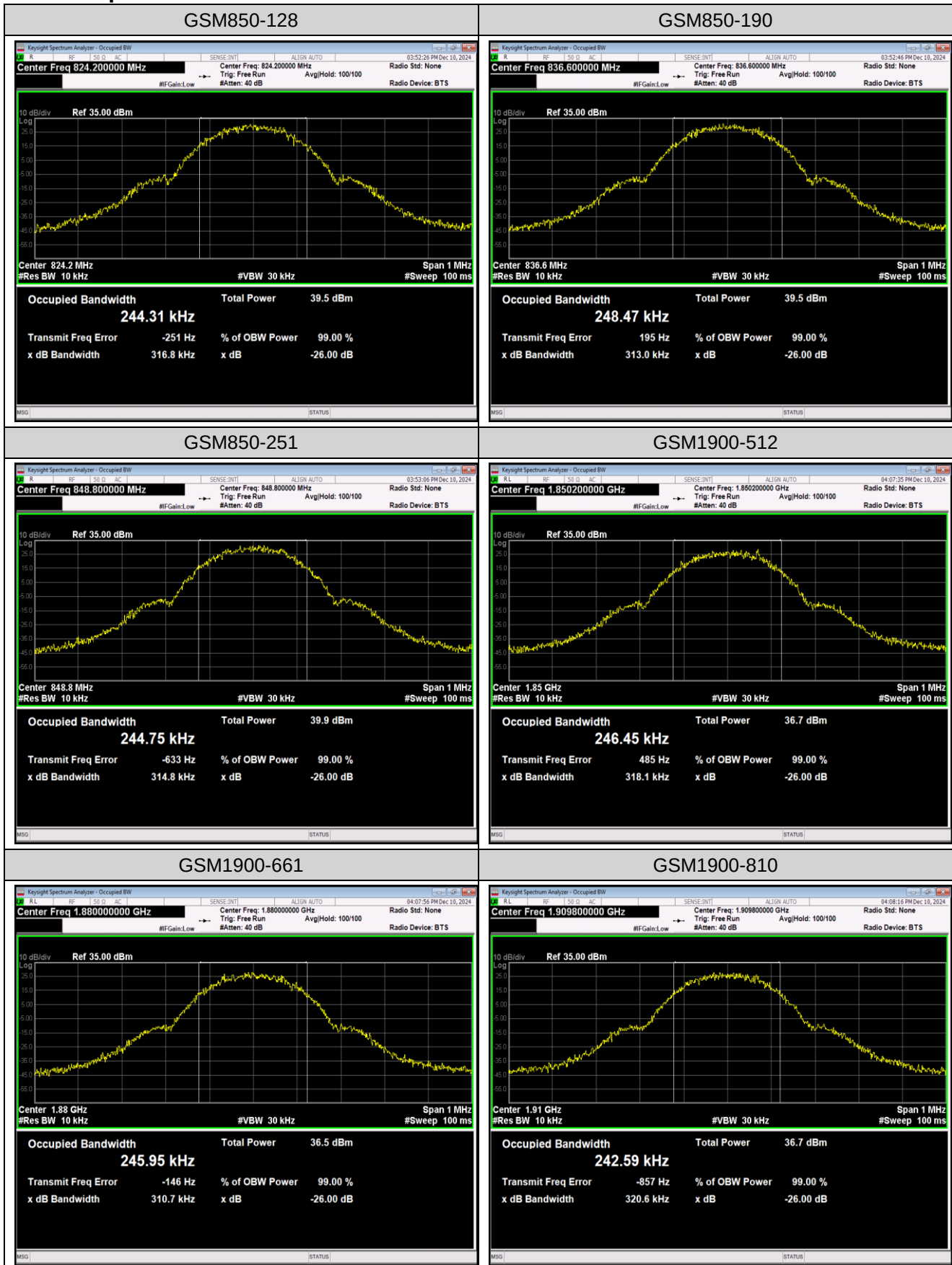


Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	5	0.24431	0.3168	---	PASS
GSM850	190	5	0.24847	0.3130	---	PASS
GSM850	251	5	0.24475	0.3148	---	PASS
GSM1900	512	0	0.24645	0.3181	---	PASS
GSM1900	661	0	0.24595	0.3107	---	PASS
GSM1900	810	0	0.24259	0.3206	---	PASS

Test Graphs

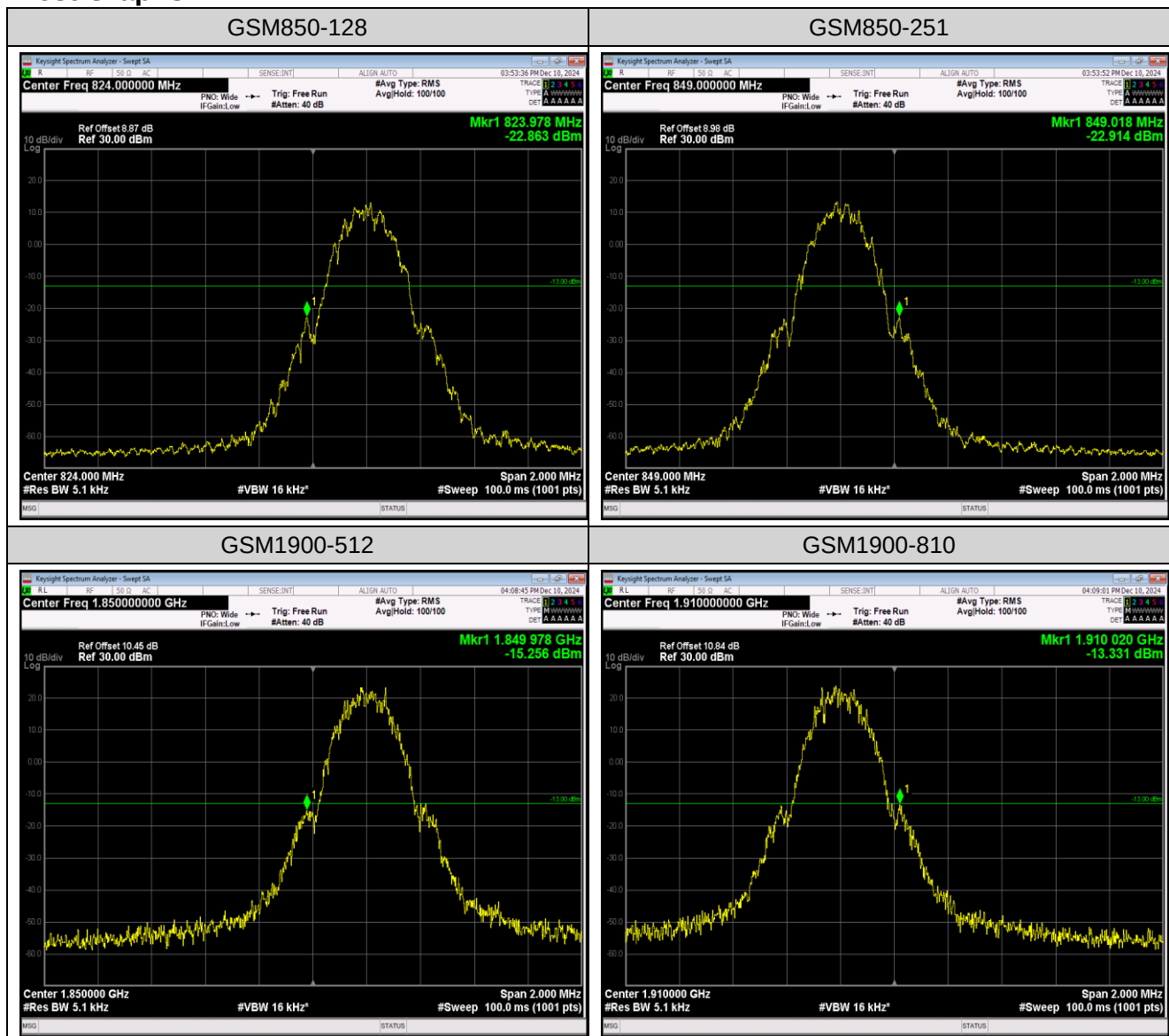


Appendix D: Band Edge

Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	5	823.98	-22.86	-13	PASS
GSM850	251	5	849.02	-22.91	-13	PASS
GSM1900	512	0	1849.98	-15.26	-13	PASS
GSM1900	810	0	1910.02	-13.33	-13	PASS

Test Graphs



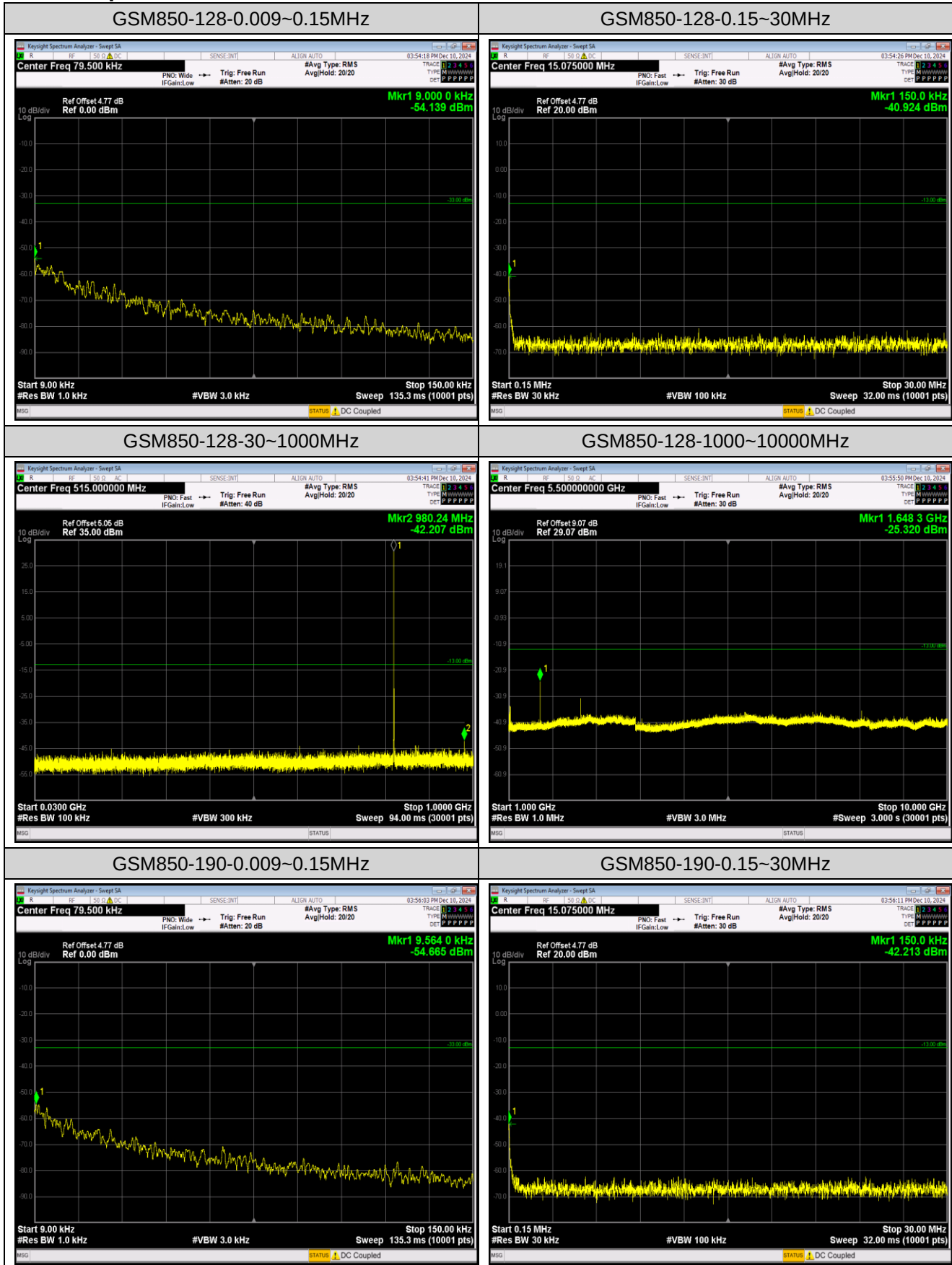
Appendix E: Conducted Spurious Emission

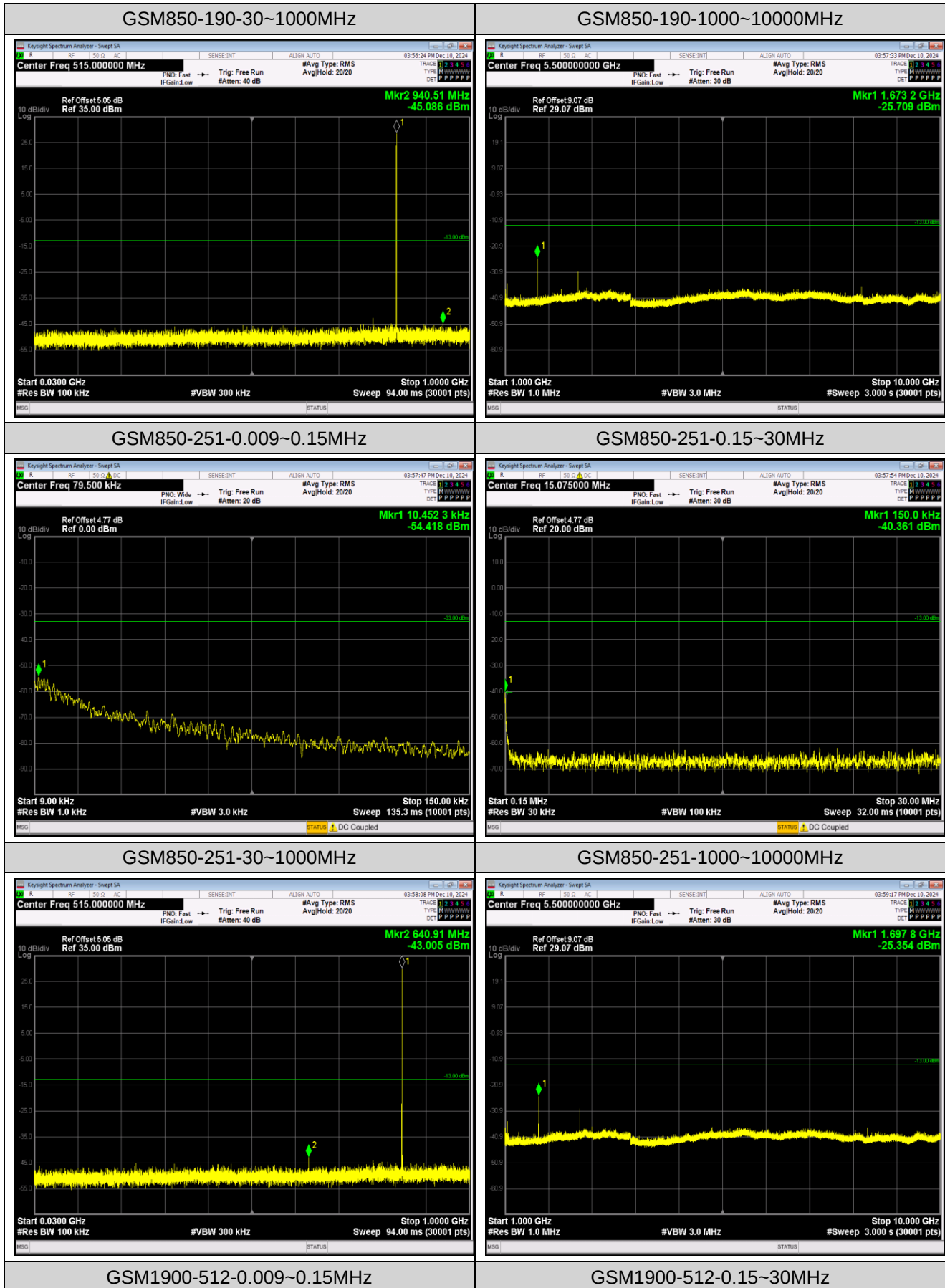
Test Result

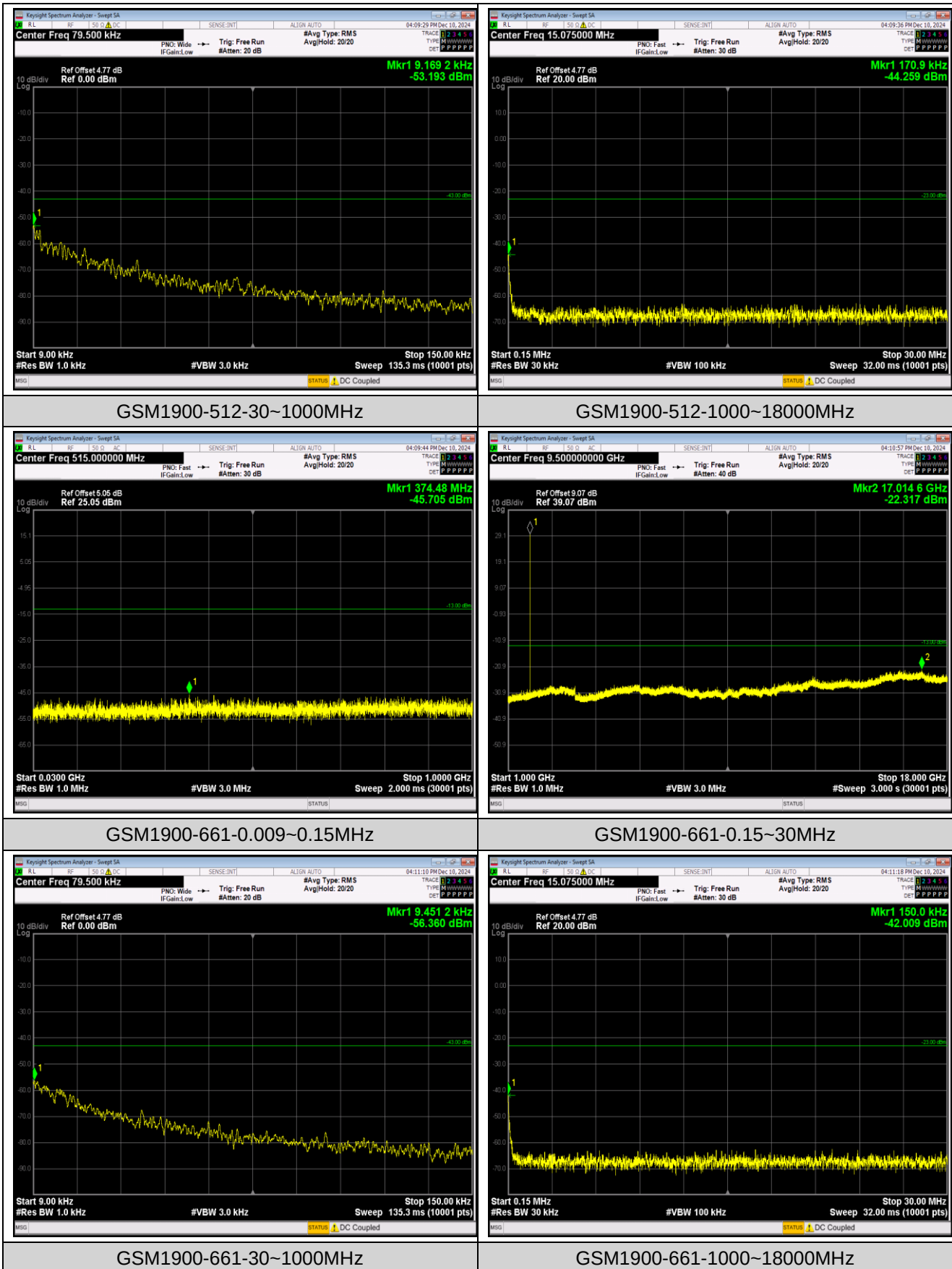
Band	Channel	PCL	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	5	0.009~0.15MHz	0.01	-54.14	-33	PASS
GSM850	128	5	0.15~30MHz	0.15	-40.92	-13	PASS
GSM850	128	5	30~1000MHz	980.24	-42.21	-13	PASS
GSM850	128	5	1000~10000MHz	1648.3	-25.32	-13	PASS
GSM850	190	5	0.009~0.15MHz	0.01	-54.67	-33	PASS
GSM850	190	5	0.15~30MHz	0.15	-42.21	-13	PASS
GSM850	190	5	30~1000MHz	940.51	-45.09	-13	PASS
GSM850	190	5	1000~10000MHz	1673.2	-25.71	-13	PASS
GSM850	251	5	0.009~0.15MHz	0.01	-54.42	-33	PASS
GSM850	251	5	0.15~30MHz	0.15	-40.36	-13	PASS
GSM850	251	5	30~1000MHz	640.91	-43.01	-13	PASS
GSM850	251	5	1000~10000MHz	1697.8	-25.35	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-53.19	-43	PASS
GSM1900	512	0	0.15~30MHz	0.17	-44.26	-23	PASS
GSM1900	512	0	30~1000MHz	374.48	-45.71	-13	PASS
GSM1900	512	0	1000~18000MHz	17014.57	-22.32	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-56.36	-43	PASS
GSM1900	661	0	0.15~30MHz	0.15	-42.01	-23	PASS
GSM1900	661	0	30~1000MHz	923.73	-45.42	-13	PASS
GSM1900	661	0	1000~18000MHz	16355.53	-22.57	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-55.7	-43	PASS
GSM1900	810	0	0.15~30MHz	0.16	-45.17	-23	PASS
GSM1900	810	0	30~1000MHz	910.89	-45.33	-13	PASS
GSM1900	810	0	1000~18000MHz	17096.17	-22.13	-13	PASS

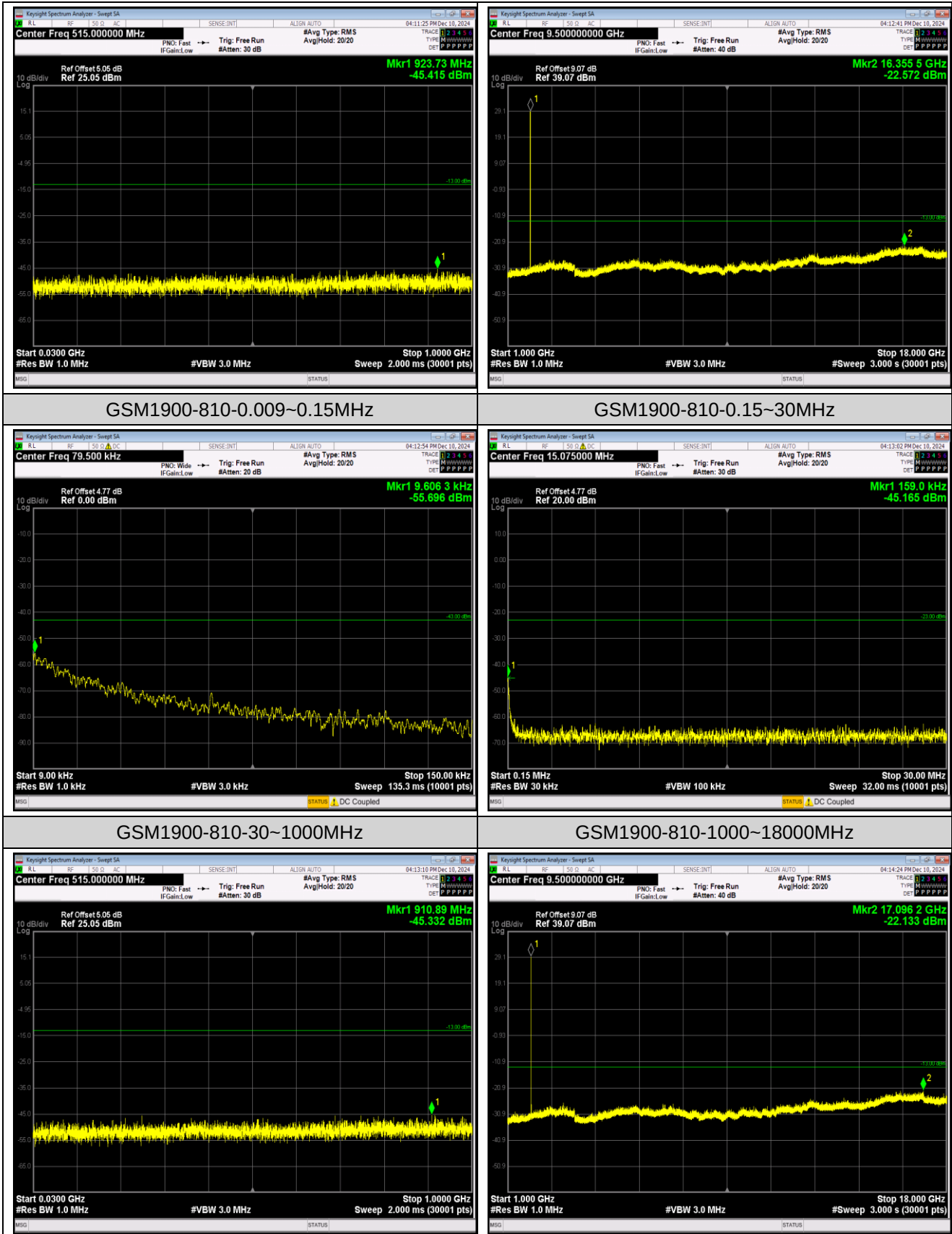
Remark: All channel and all modulation had been tested, but only the worst case data displayed in this report.

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	3.29	0.003933	±2.5	Pass
	-20	-1.84	-0.002199		
	-10	-0.29	-0.000347		
	0	1.97	0.002355		
	10	-12.40	-0.014822		
	20	-4.81	-0.005749		
	30	-7.07	-0.008451		
	40	-2.94	-0.003514		
	50	-0.06	-0.000072		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	3.39	0.004052	±2.5	Pass
	3.70	2.00	0.002391		
	4.20	-1.81	-0.002164		
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	12.01	0.006388	Within authorized band for PCS 1900	Pass
	-20	3.91	0.002080		
	-10	9.94	0.005287		
	0	6.49	0.003452		
	10	-2.65	-0.001410		
	20	0.36	0.000191		
	30	3.65	0.001941		
	40	8.07	0.004293		
	50	5.84	0.003106		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	-6.75	-0.003590	Within authorized band for PCS 1900	Pass
	3.70	2.81	0.001495		
	4.20	7.39	0.003931		
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

