

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	33.58	31.73	38.45	PASS
GSM850	190	5	33.62	31.77	38.45	PASS
GSM850	251	5	33.55	31.7	38.45	PASS
GSM1900	512	0	30.80	32.4	33.00	PASS
GSM1900	661	0	30.90	32.5	33.00	PASS
GSM1900	810	0	31.12	32.72	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	5	1	33.87	32.02	38.45	PASS
GPRS850	128	5	2	31.98	30.13	38.45	PASS
GPRS850	128	5	3	30.41	28.56	38.45	PASS
GPRS850	128	5	4	28.79	26.94	38.45	PASS
GPRS850	190	5	1	34.07	32.22	38.45	PASS
GPRS850	190	5	2	32.26	30.41	38.45	PASS
GPRS850	190	5	3	30.68	28.83	38.45	PASS
GPRS850	190	5	4	29.08	27.23	38.45	PASS
GPRS850	251	5	1	33.89	32.04	38.45	PASS
GPRS850	251	5	2	32.09	30.24	38.45	PASS
GPRS850	251	5	3	30.50	28.65	38.45	PASS
GPRS850	251	5	4	28.89	27.04	38.45	PASS
GPRS1900	512	0	1	30.69	32.29	33.00	PASS
GPRS1900	512	0	2	28.46	30.06	33.00	PASS
GPRS1900	512	0	3	27.07	28.67	33.00	PASS
GPRS1900	512	0	4	25.35	26.95	33.00	PASS
GPRS1900	661	0	1	30.82	32.42	33.00	PASS
GPRS1900	661	0	2	28.70	30.3	33.00	PASS
GPRS1900	661	0	3	27.31	28.91	33.00	PASS
GPRS1900	661	0	4	25.60	27.2	33.00	PASS
GPRS1900	810	0	1	31.03	32.63	33.00	PASS
GPRS1900	810	0	2	29.14	30.74	33.00	PASS
GPRS1900	810	0	3	27.73	29.33	33.00	PASS
GPRS1900	810	0	4	26.04	27.64	33.00	PASS

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

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

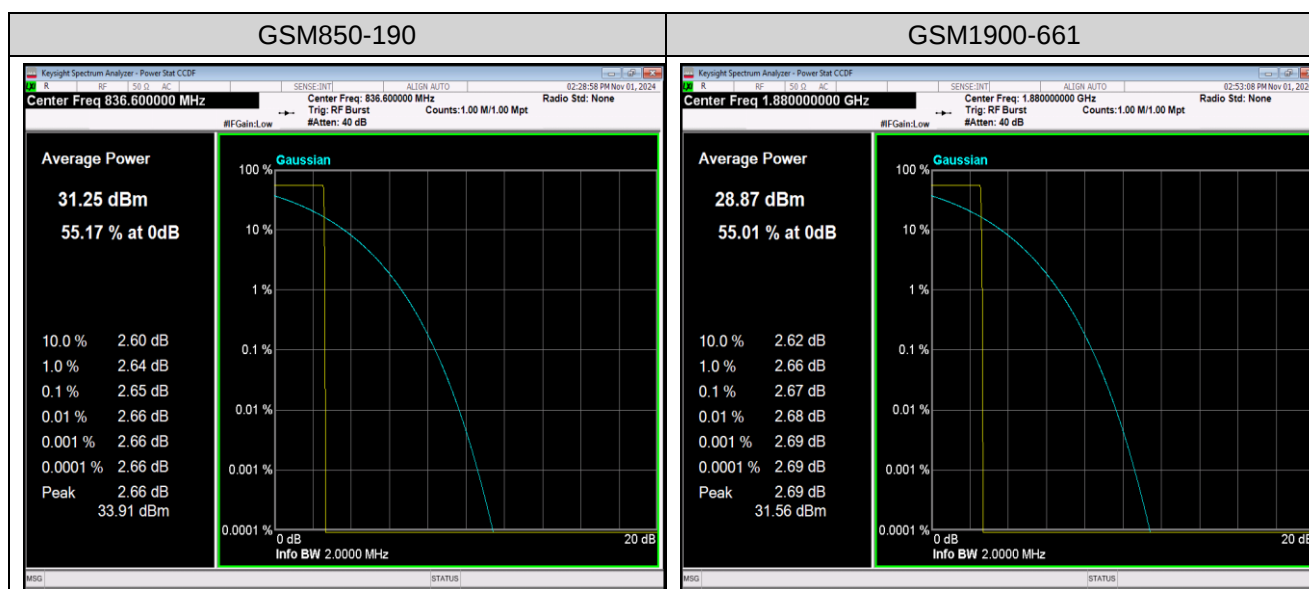
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	PCL	Result(dB)	Limit(dB)	Verdict
GSM850	190	5	2.65	13	PASS
GSM1900	661	0	2.67	13	PASS

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

Test Graphs

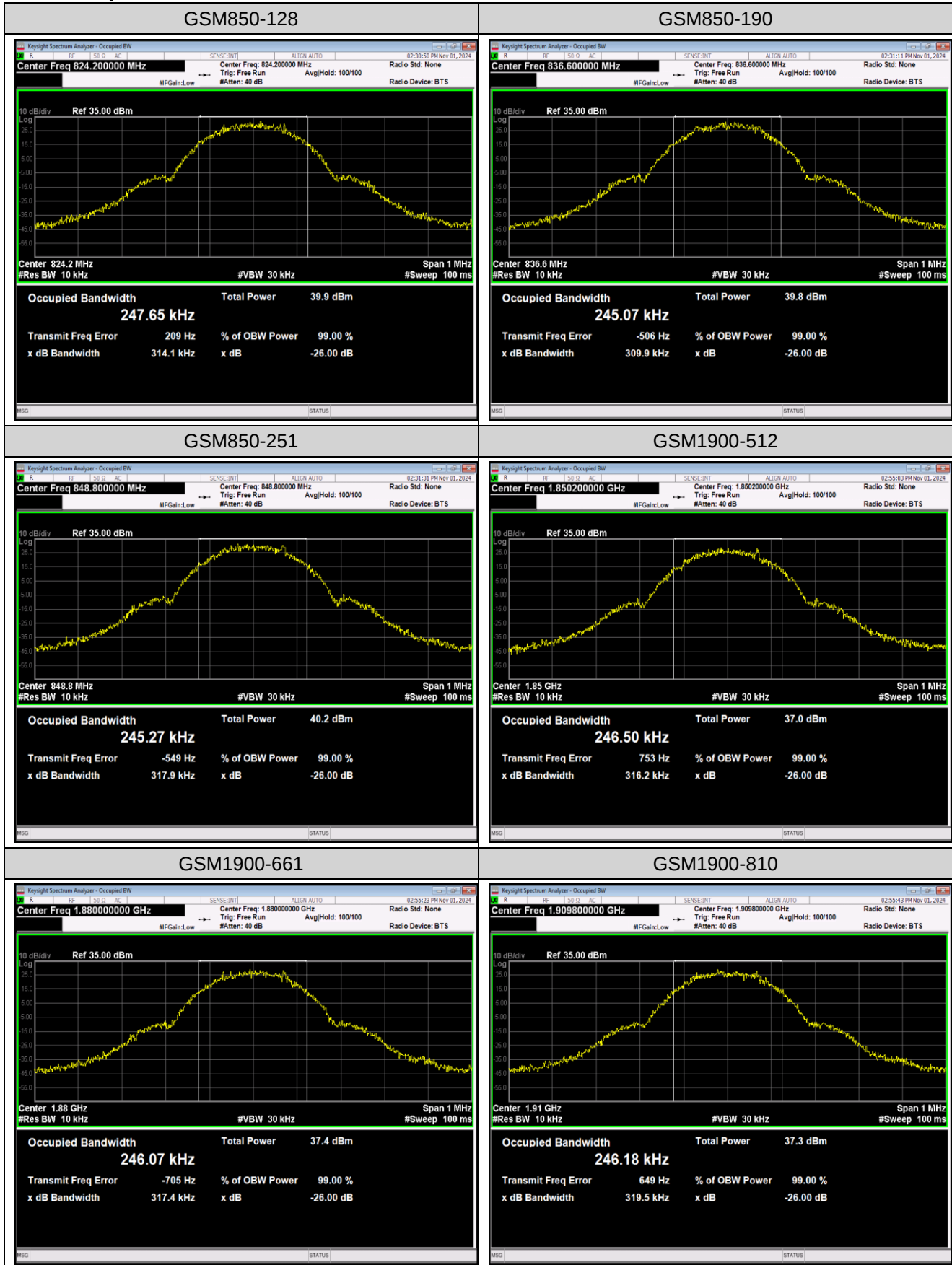


Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	5	0.24765	0.3141	---	PASS
GSM850	190	5	0.24507	0.3099	---	PASS
GSM850	251	5	0.24527	0.3179	---	PASS
GSM1900	512	0	0.24650	0.3162	---	PASS
GSM1900	661	0	0.24607	0.3174	---	PASS
GSM1900	810	0	0.24618	0.3195	---	PASS

Test Graphs

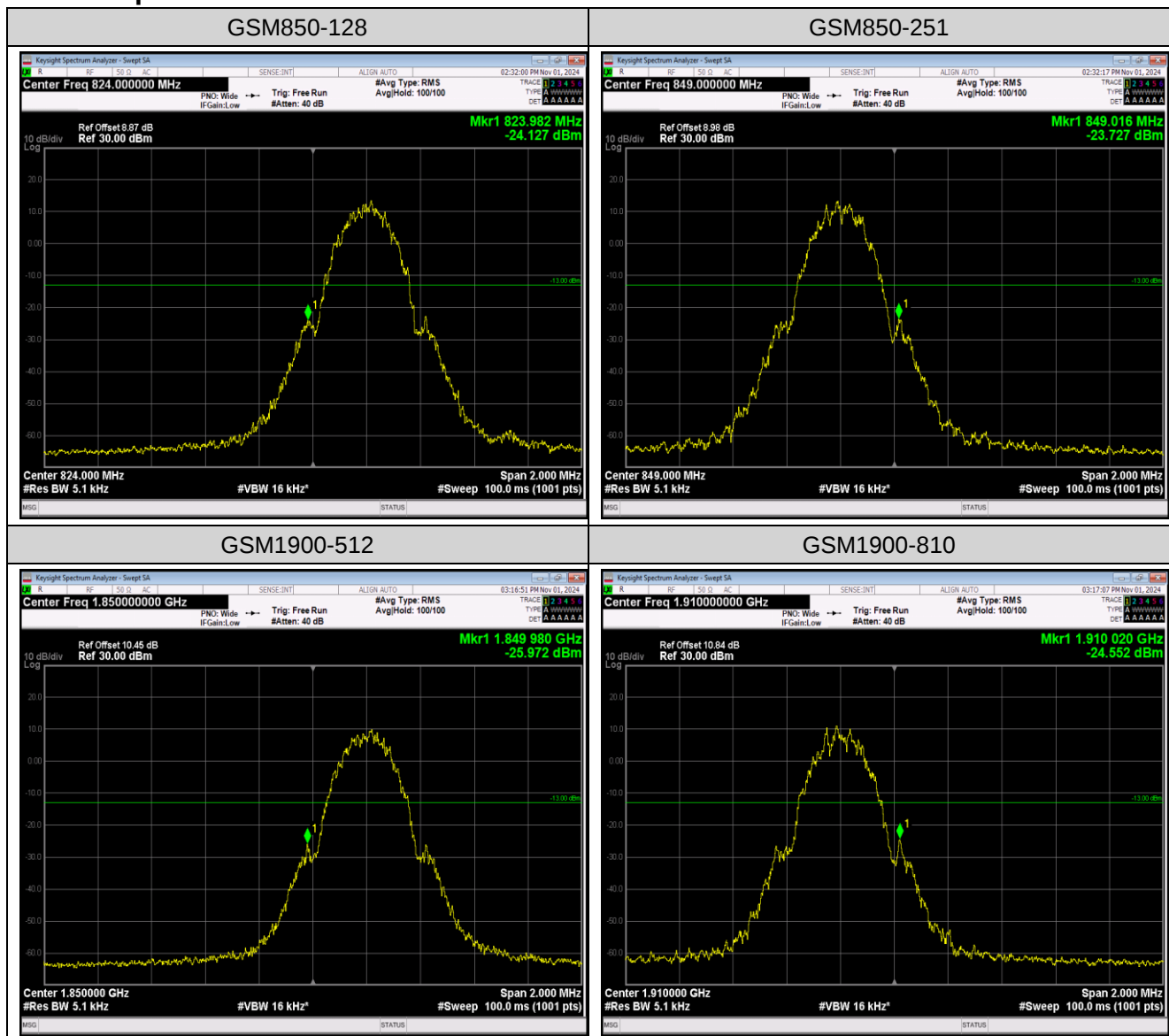


Appendix D: Band Edge

Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	5	823.98	-24.13	-13	PASS
GSM850	251	5	849.02	-23.73	-13	PASS
GSM1900	512	0	1849.98	-25.97	-13	PASS
GSM1900	810	0	1910.02	-24.55	-13	PASS

Test Graphs



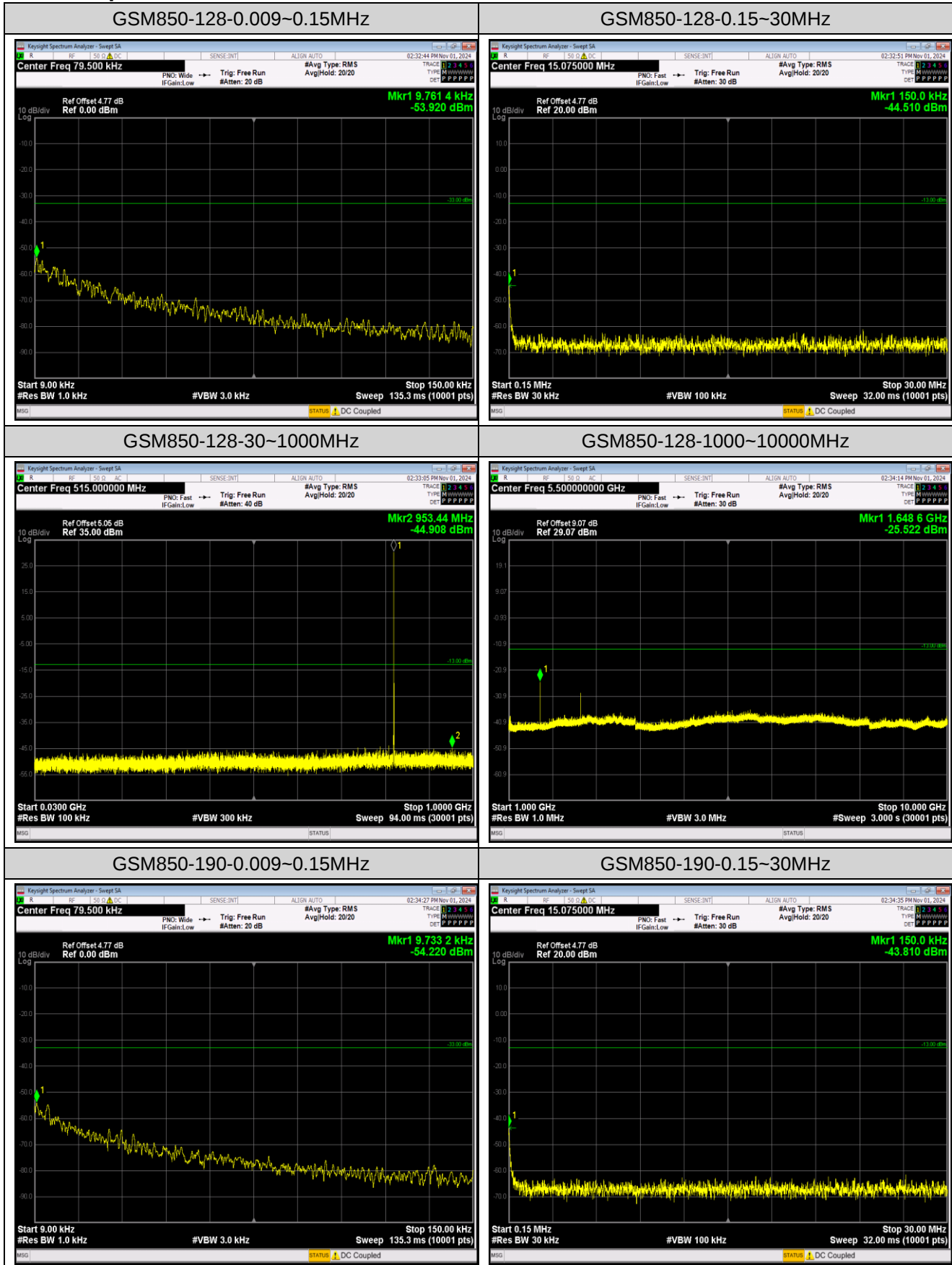
Appendix E: Conducted Spurious Emission

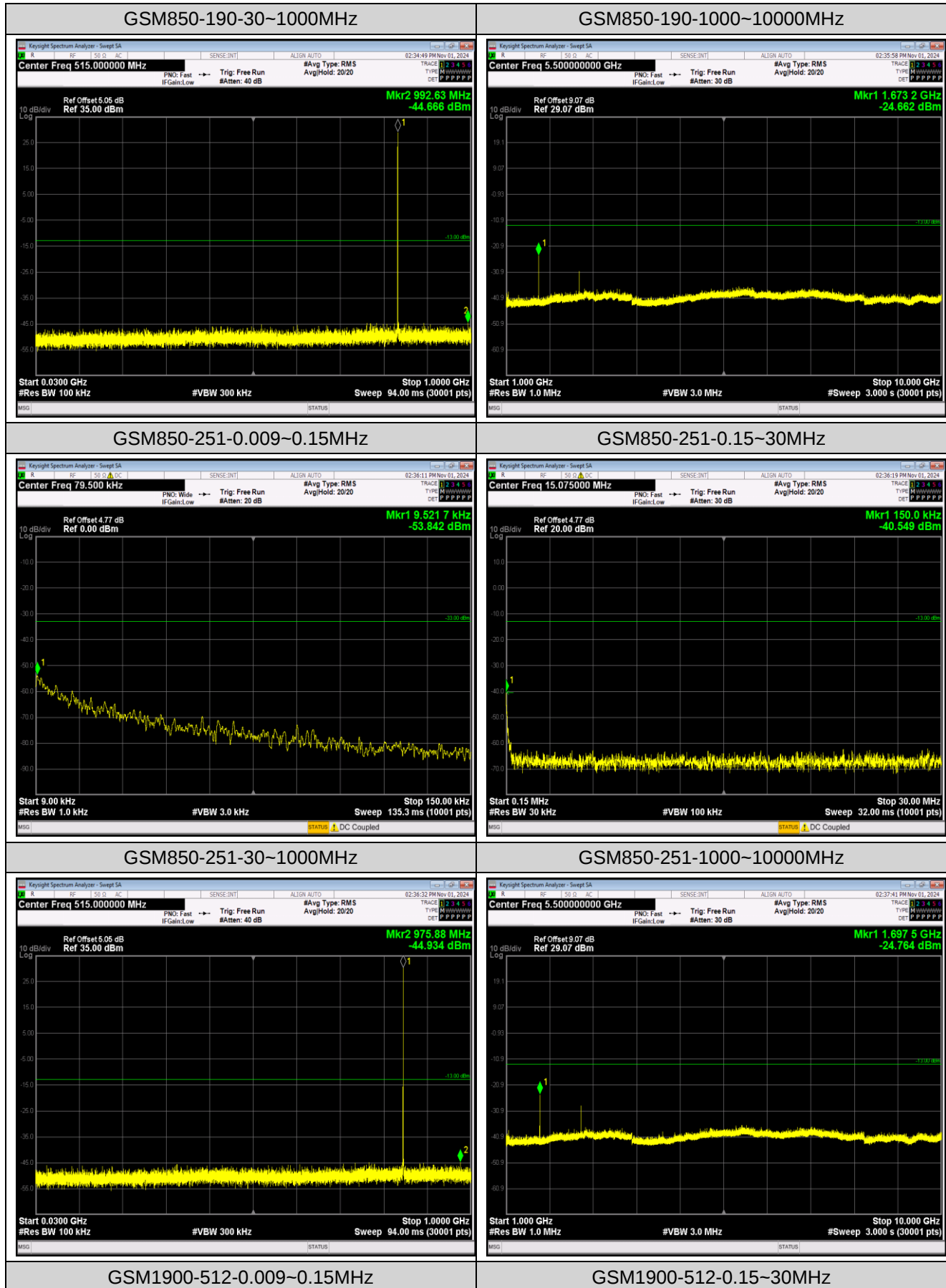
Test Result

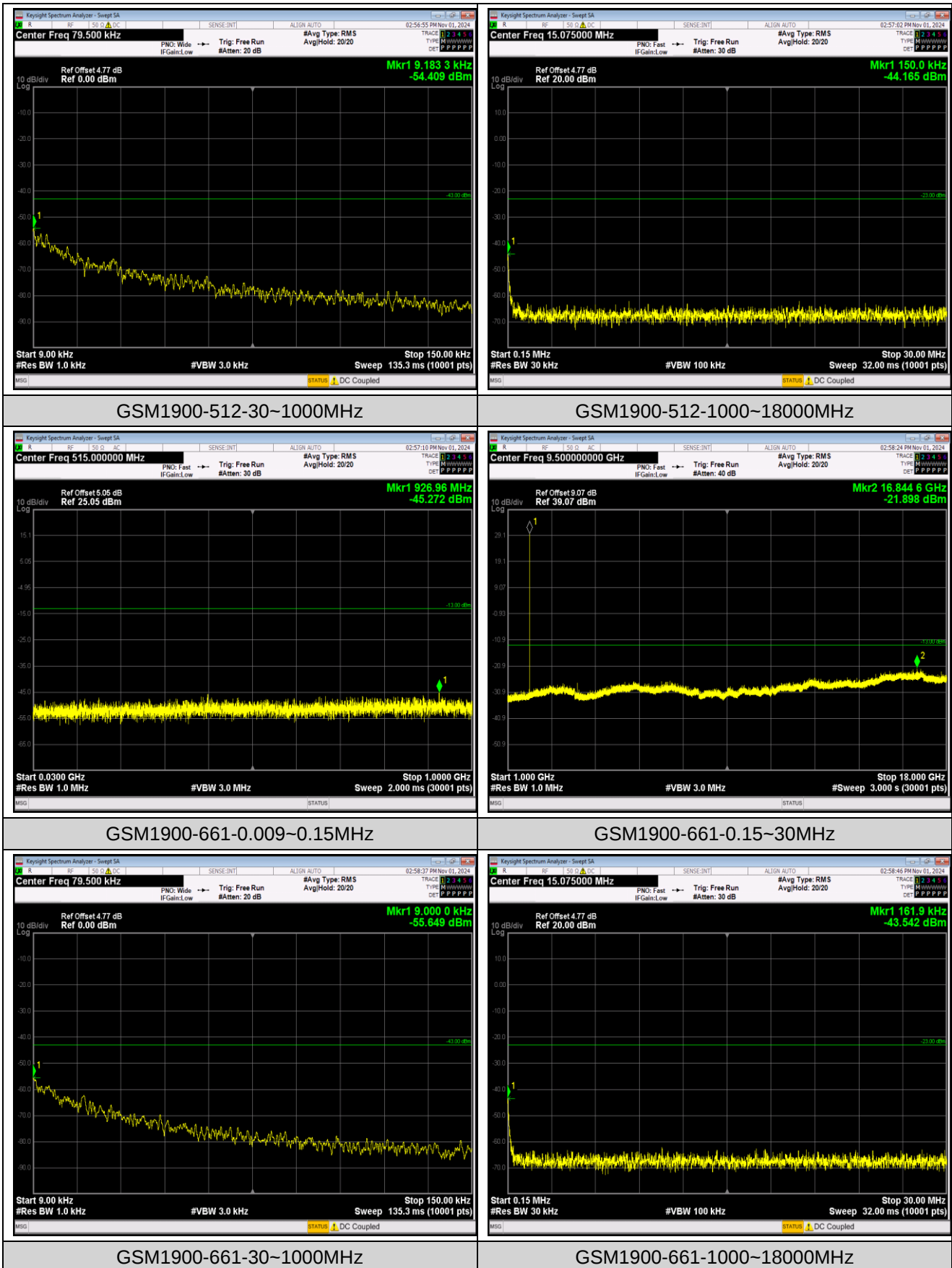
Band	Channel	PCL	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	5	0.009~0.15MHz	0.01	-53.92	-33	PASS
GSM850	128	5	0.15~30MHz	0.15	-44.51	-13	PASS
GSM850	128	5	30~1000MHz	953.44	-44.91	-13	PASS
GSM850	128	5	1000~10000MHz	1648.6	-25.52	-13	PASS
GSM850	190	5	0.009~0.15MHz	0.01	-54.22	-33	PASS
GSM850	190	5	0.15~30MHz	0.15	-43.81	-13	PASS
GSM850	190	5	30~1000MHz	992.63	-44.67	-13	PASS
GSM850	190	5	1000~10000MHz	1673.2	-24.66	-13	PASS
GSM850	251	5	0.009~0.15MHz	0.01	-53.84	-33	PASS
GSM850	251	5	0.15~30MHz	0.15	-40.55	-13	PASS
GSM850	251	5	30~1000MHz	975.88	-44.93	-13	PASS
GSM850	251	5	1000~10000MHz	1697.5	-24.76	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-54.41	-43	PASS
GSM1900	512	0	0.15~30MHz	0.15	-44.17	-23	PASS
GSM1900	512	0	30~1000MHz	926.96	-45.27	-13	PASS
GSM1900	512	0	1000~18000MHz	16844.57	-21.9	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-55.65	-43	PASS
GSM1900	661	0	0.15~30MHz	0.16	-43.54	-23	PASS
GSM1900	661	0	30~1000MHz	803.8	-45.47	-13	PASS
GSM1900	661	0	1000~18000MHz	17053.67	-22.02	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-56.59	-43	PASS
GSM1900	810	0	0.15~30MHz	0.15	-40.65	-23	PASS
GSM1900	810	0	30~1000MHz	888.03	-45.87	-13	PASS
GSM1900	810	0	1000~18000MHz	15765.63	-22.65	-13	PASS

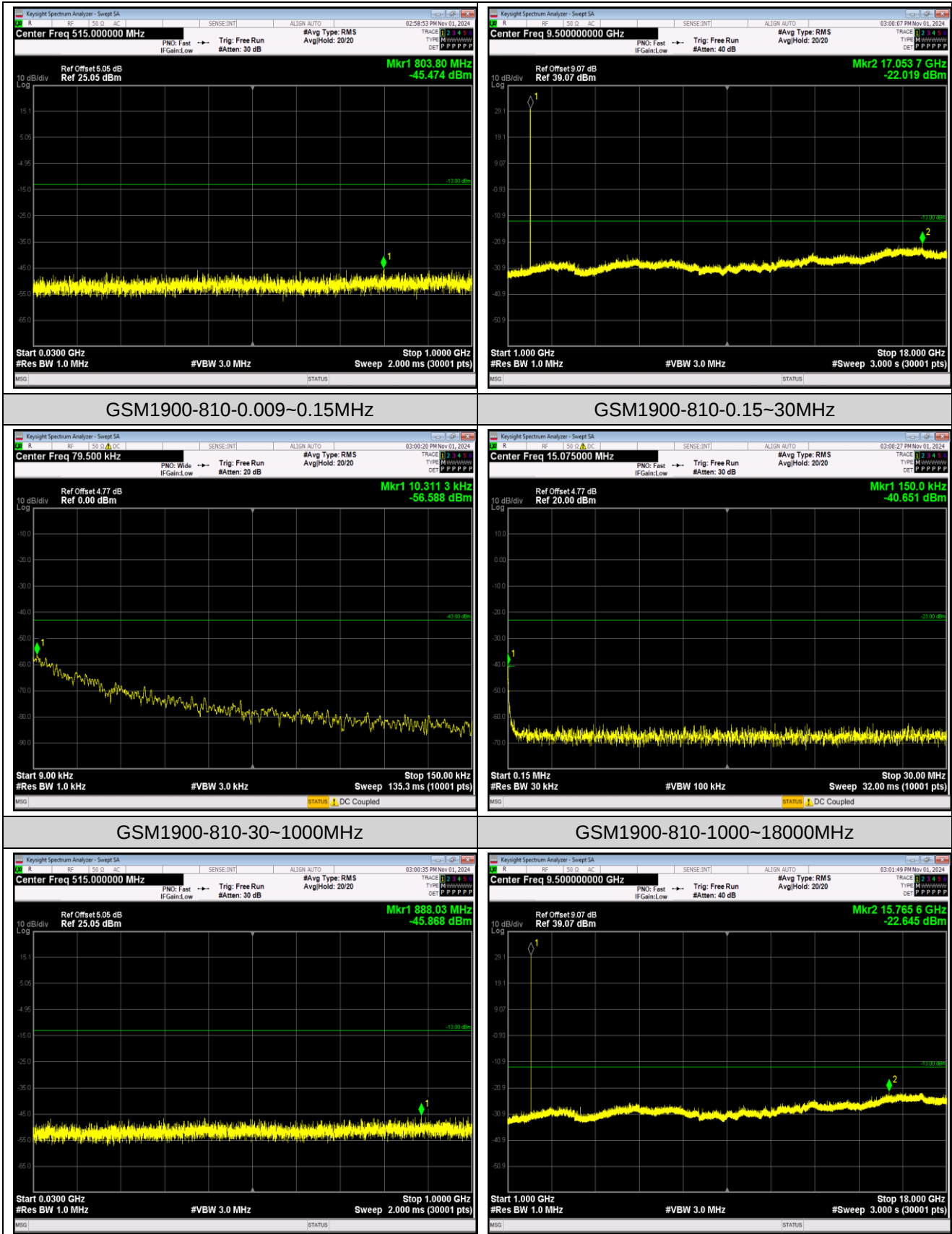
Remark: All channel and all modulation had been tested, but only the worst case data displayed in this report.

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	-0.03	-0.000036	±2.5	Pass
	-20	-7.62	-0.009108		
	-10	-0.65	-0.000777		
	0	-11.66	-0.013937		
	10	-5.33	-0.006371		
	20	8.85	0.010579		
	30	-5.23	-0.006251		
	40	1.39	0.001661		
	50	1.07	0.001279		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	2.75	-13.69	-0.016364	±2.5	Pass
	3.70	-3.75	-0.004482		
	4.20	0.68	0.000813		
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	-13.72	-0.007298	Within authorized band for PCS 1900	Pass
	-20	-12.01	-0.006388		
	-10	8.04	0.004277		
	0	-13.20	-0.007021		
	10	-20.92	-0.011128		
	20	-18.05	-0.009601		
	30	18.02	0.009585		
	40	0.06	0.000032		
	50	-14.04	-0.007468		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	2.75	-21.76	-0.011574	Within authorized band for PCS 1900	Pass
	3.70	-19.18	-0.010202		
	4.20	3.33	0.001771		
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

