

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	33.60	24.56	38.45	PASS
GSM850	190	5	33.47	24.43	38.45	PASS
GSM850	251	5	33.28	24.24	38.45	PASS
GSM1900	512	0	30.22	27.72	33.00	PASS
GSM1900	661	0	30.63	28.13	33.00	PASS
GSM1900	810	0	30.41	27.91	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit(dBm)	Verdict
GPRS850	128	5	1	33.56	24.52	38.45	PASS
GPRS850	128	5	2	32.89	23.85	38.45	PASS
GPRS850	128	5	3	31.12	22.08	38.45	PASS
GPRS850	128	5	4	29.88	20.84	38.45	PASS
GPRS850	190	5	1	33.40	24.36	38.45	PASS
GPRS850	190	5	2	32.72	23.68	38.45	PASS
GPRS850	190	5	3	30.95	21.91	38.45	PASS
GPRS850	190	5	4	29.69	20.65	38.45	PASS
GPRS850	251	5	1	33.22	24.18	38.45	PASS
GPRS850	251	5	2	32.55	23.51	38.45	PASS
GPRS850	251	5	3	30.75	21.71	38.45	PASS
GPRS850	251	5	4	29.50	20.46	38.45	PASS
GPRS1900	512	0	1	30.28	27.78	33.00	PASS
GPRS1900	512	0	2	29.52	27.02	33.00	PASS
GPRS1900	512	0	3	27.65	25.15	33.00	PASS
GPRS1900	512	0	4	26.39	23.89	33.00	PASS
GPRS1900	661	0	1	30.59	28.09	33.00	PASS
GPRS1900	661	0	2	29.87	27.37	33.00	PASS
GPRS1900	661	0	3	28.04	25.54	33.00	PASS
GPRS1900	661	0	4	26.82	24.32	33.00	PASS
GPRS1900	810	0	1	30.42	27.92	33.00	PASS
GPRS1900	810	0	2	29.76	27.26	33.00	PASS
GPRS1900	810	0	3	27.98	25.48	33.00	PASS
GPRS1900	810	0	4	26.80	24.3	33.00	PASS

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

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

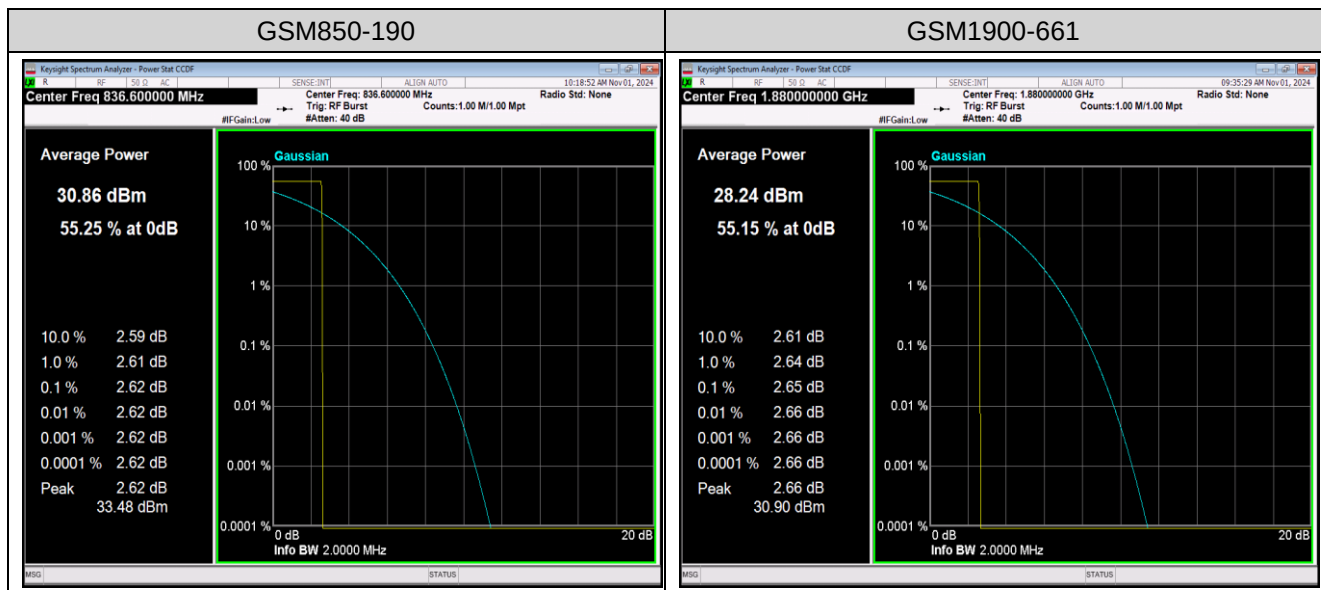
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	PCL	Result(dB)	Limit(dB)	Verdict
GSM850	190	5	2.62	13	PASS
GSM1900	661	0	2.65	13	PASS

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

Test Graphs

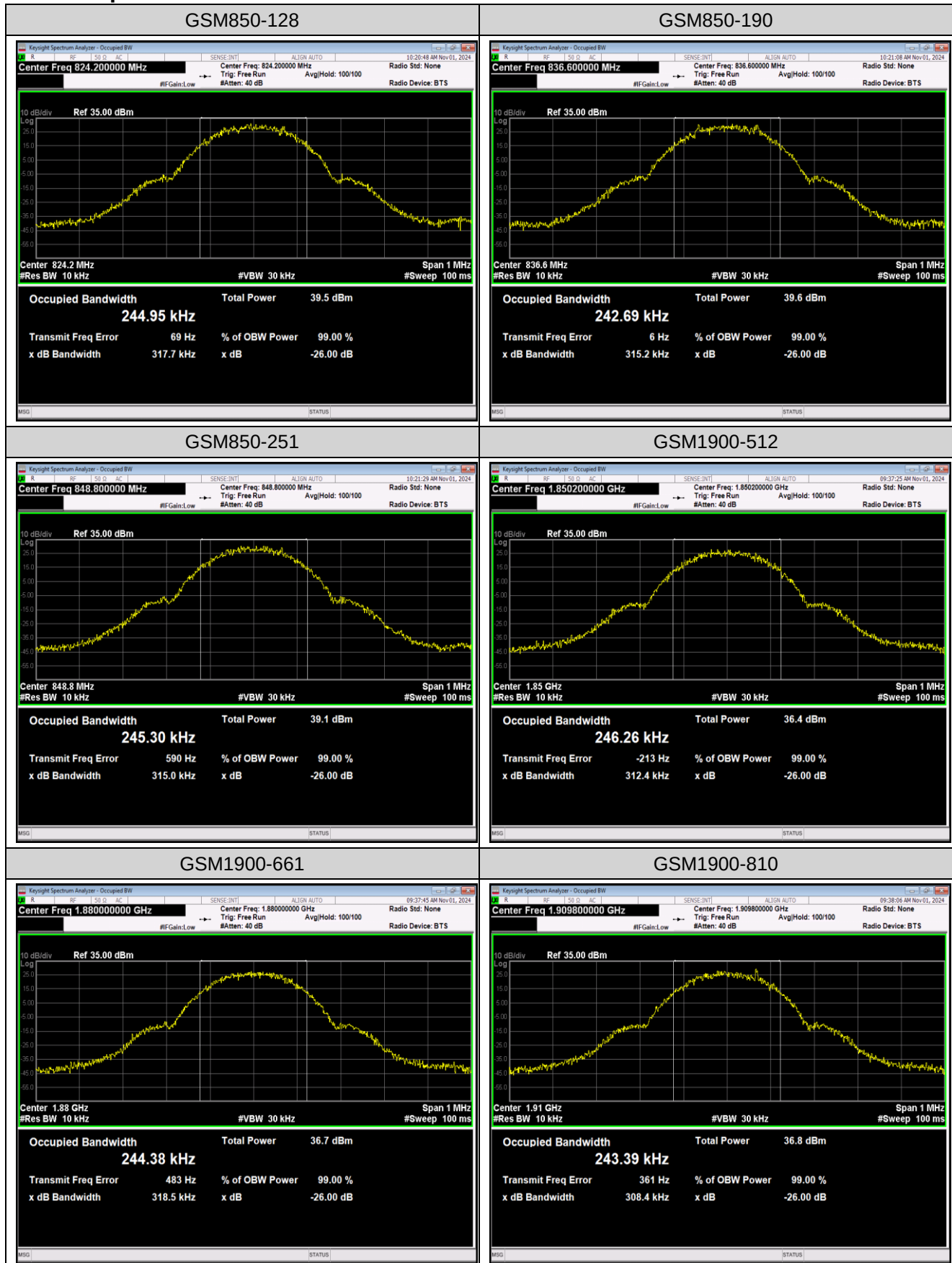


Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	5	0.24495	0.3177	---	PASS
GSM850	190	5	0.24269	0.3152	---	PASS
GSM850	251	5	0.24530	0.3150	---	PASS
GSM1900	512	0	0.24626	0.3124	---	PASS
GSM1900	661	0	0.24438	0.3185	---	PASS
GSM1900	810	0	0.24339	0.3084	---	PASS

Test Graphs

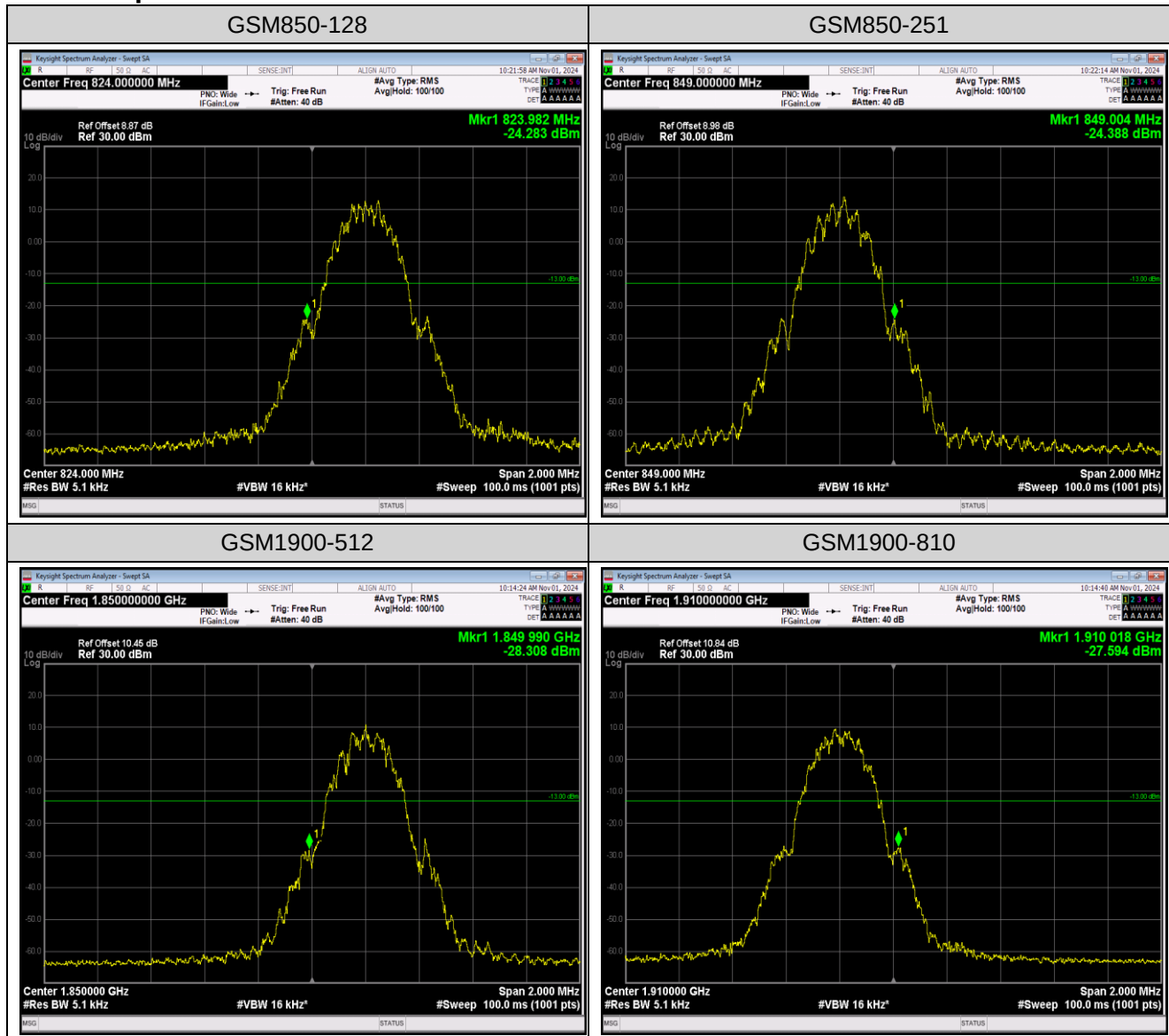


Appendix D: Band Edge

Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	5	823.98	-24.28	-13	PASS
GSM850	251	5	849.00	-24.39	-13	PASS
GSM1900	512	0	1849.99	-28.31	-13	PASS
GSM1900	810	0	1910.02	-27.59	-13	PASS

Test Graphs



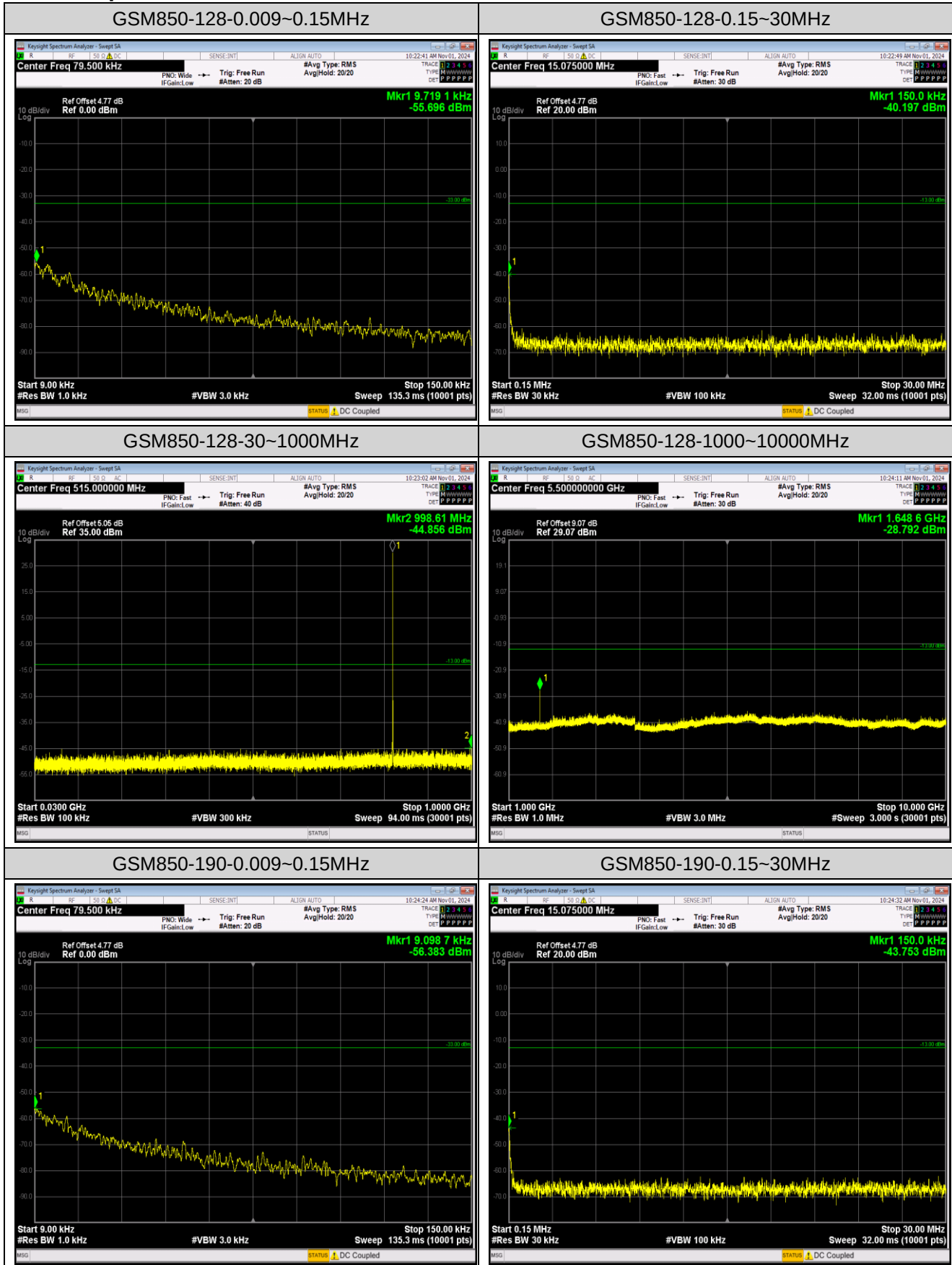
Appendix E: Conducted Spurious Emission

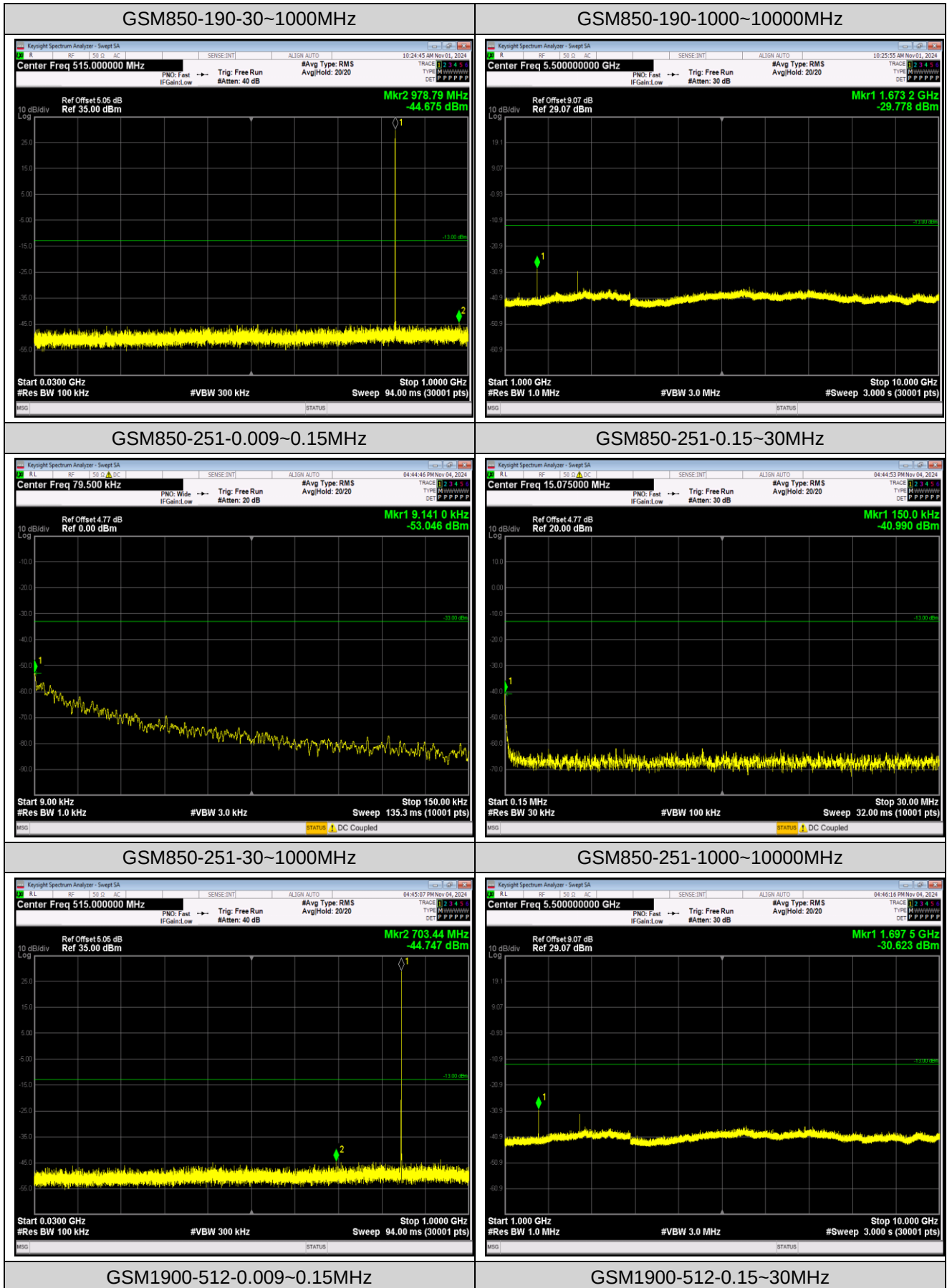
Test Result

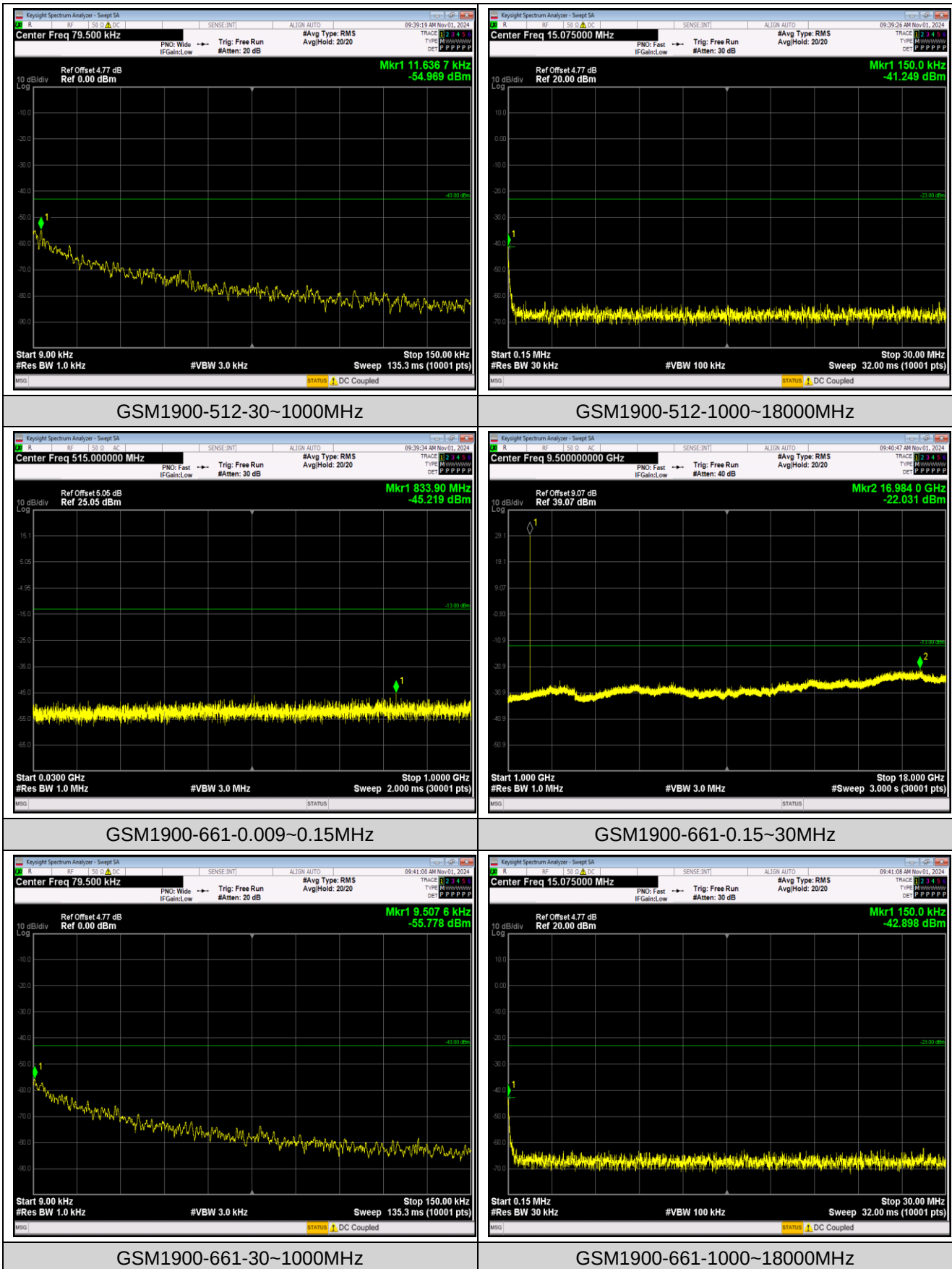
Band	Channel	PCL	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	5	0.009~0.15MHz	0.01	-55.7	-33	PASS
GSM850	128	5	0.15~30MHz	0.15	-40.2	-13	PASS
GSM850	128	5	30~1000MHz	998.61	-44.86	-13	PASS
GSM850	128	5	1000~10000MHz	1648.6	-28.79	-13	PASS
GSM850	190	5	0.009~0.15MHz	0.01	-56.38	-33	PASS
GSM850	190	5	0.15~30MHz	0.15	-43.75	-13	PASS
GSM850	190	5	30~1000MHz	978.79	-44.68	-13	PASS
GSM850	190	5	1000~10000MHz	1673.2	-29.78	-13	PASS
GSM850	251	5	0.009~0.15MHz	0.01	-53.05	-33	PASS
GSM850	251	5	0.15~30MHz	0.15	-40.99	-13	PASS
GSM850	251	5	30~1000MHz	703.44	-44.75	-13	PASS
GSM850	251	5	1000~10000MHz	1697.5	-30.62	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-54.97	-43	PASS
GSM1900	512	0	0.15~30MHz	0.15	-41.25	-23	PASS
GSM1900	512	0	30~1000MHz	833.9	-45.22	-13	PASS
GSM1900	512	0	1000~18000MHz	16983.97	-22.03	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-55.78	-43	PASS
GSM1900	661	0	0.15~30MHz	0.15	-42.9	-23	PASS
GSM1900	661	0	30~1000MHz	902.42	-46.24	-13	PASS
GSM1900	661	0	1000~18000MHz	16966.4	-21.45	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-54.35	-43	PASS
GSM1900	810	0	0.15~30MHz	0.15	-42.14	-23	PASS
GSM1900	810	0	30~1000MHz	234.61	-46.53	-13	PASS
GSM1900	810	0	1000~18000MHz	17010.03	-21.46	-13	PASS

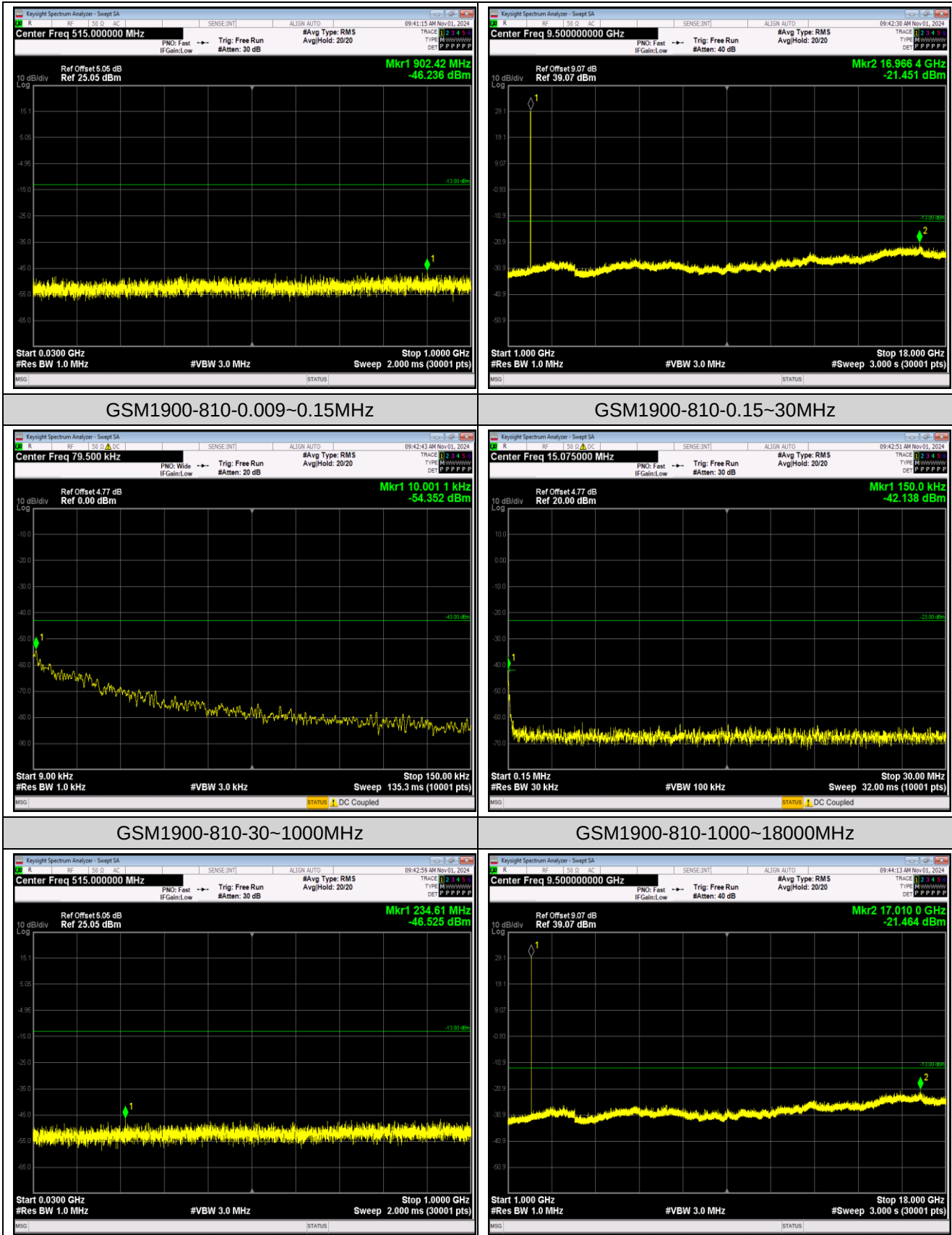
Remark: All channel and all modulation had been tested, but only the worst case data displayed in this report.

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		
3.91	-30	-11.04	-0.013196	±2.5	Pass
	-20	-7.94	-0.009491		
	-10	-10.04	-0.012001		
	0	-7.17	-0.008570		
	10	-11.72	-0.014009		
	20	-11.30	-0.013507		
	30	-6.13	-0.007327		
	40	-7.72	-0.009228		
	50	-7.81	-0.009335		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	-8.65	-0.010339	±2.5	Pass
	3.91	-9.62	-0.011499		
	4.50	-10.30	-0.012312		
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		
3.91	-30	-15.85	-0.008431	Within authorized band for PCS 1900	Pass
	-20	-10.43	-0.005548		
	-10	-10.85	-0.005771		
	0	-15.88	-0.008447		
	10	-8.36	-0.004447		
	20	-16.18	-0.008606		
	30	-17.89	-0.009516		
	40	-10.04	-0.005340		
	50	-12.04	-0.006404		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	-15.82	-0.008415	Within authorized band for PCS 1900	Pass
	3.91	-16.56	-0.008809		
	4.50	-14.24	-0.007574		
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

