

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	33.03	30.3	38.45	PASS
GSM850	190	5	33.05	30.32	38.45	PASS
GSM850	251	5	32.76	30.03	38.45	PASS
GSM1900	512	0	30.29	29.91	33.00	PASS
GSM1900	661	0	30.61	30.23	33.00	PASS
GSM1900	810	0	30.26	29.88	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	5	1	33.10	30.37	38.45	PASS
GPRS850	128	5	2	31.05	28.32	38.45	PASS
GPRS850	128	5	3	29.16	26.43	38.45	PASS
GPRS850	128	5	4	27.06	24.33	38.45	PASS
GPRS850	190	5	1	33.12	30.39	38.45	PASS
GPRS850	190	5	2	31.03	28.3	38.45	PASS
GPRS850	190	5	3	29.12	26.39	38.45	PASS
GPRS850	190	5	4	27.01	24.28	38.45	PASS
GPRS850	251	5	1	32.81	30.08	38.45	PASS
GPRS850	251	5	2	30.75	28.02	38.45	PASS
GPRS850	251	5	3	28.85	26.12	38.45	PASS
GPRS850	251	5	4	26.75	24.02	38.45	PASS
GPRS1900	512	0	1	30.32	29.94	33.00	PASS
GPRS1900	512	0	2	28.14	27.76	33.00	PASS
GPRS1900	512	0	3	26.52	26.14	33.00	PASS
GPRS1900	512	0	4	24.56	24.18	33.00	PASS
GPRS1900	661	0	1	30.58	30.2	33.00	PASS
GPRS1900	661	0	2	28.23	27.85	33.00	PASS
GPRS1900	661	0	3	26.62	26.24	33.00	PASS
GPRS1900	661	0	4	24.67	24.29	33.00	PASS
GPRS1900	810	0	1	30.23	29.85	33.00	PASS
GPRS1900	810	0	2	27.63	27.25	33.00	PASS
GPRS1900	810	0	3	26.01	25.63	33.00	PASS
GPRS1900	810	0	4	24.06	23.68	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	2.72	13	PASS
GSM1900	661	0	2.73	13	PASS

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

Test Graphs

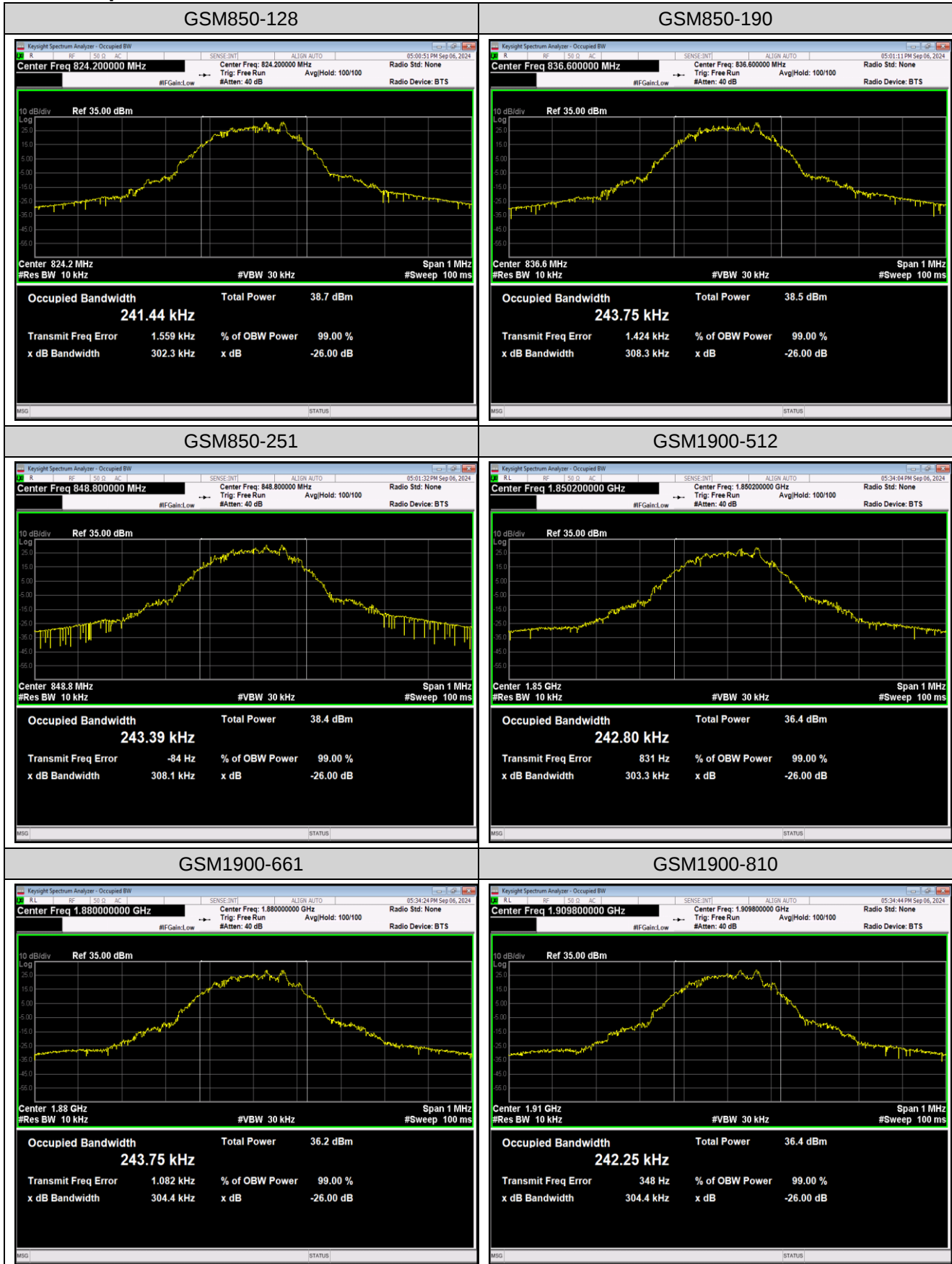


Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	5	0.24144	0.3023	---	PASS
GSM850	190	5	0.24375	0.3083	---	PASS
GSM850	251	5	0.24339	0.3081	---	PASS
GSM1900	512	0	0.24280	0.3033	---	PASS
GSM1900	661	0	0.24375	0.3044	---	PASS
GSM1900	810	0	0.24225	0.3044	---	PASS

Test Graphs

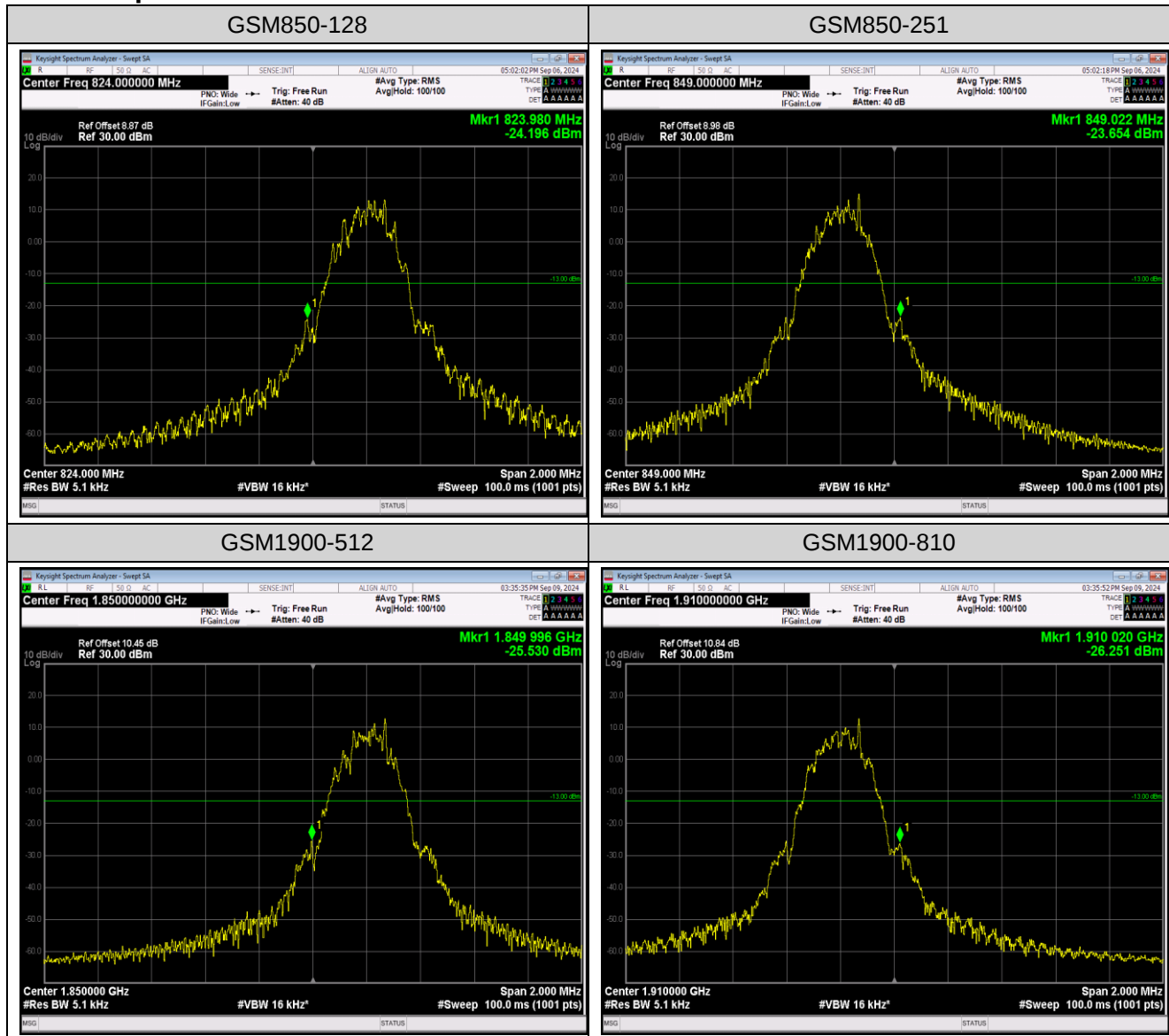


Appendix D: Band Edge

Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	5	823.98	-24.20	-13	PASS
GSM850	251	5	849.02	-23.65	-13	PASS
GSM1900	512	0	1850.00	-25.53	-13	PASS
GSM1900	810	0	1910.02	-26.25	-13	PASS

Test Graphs



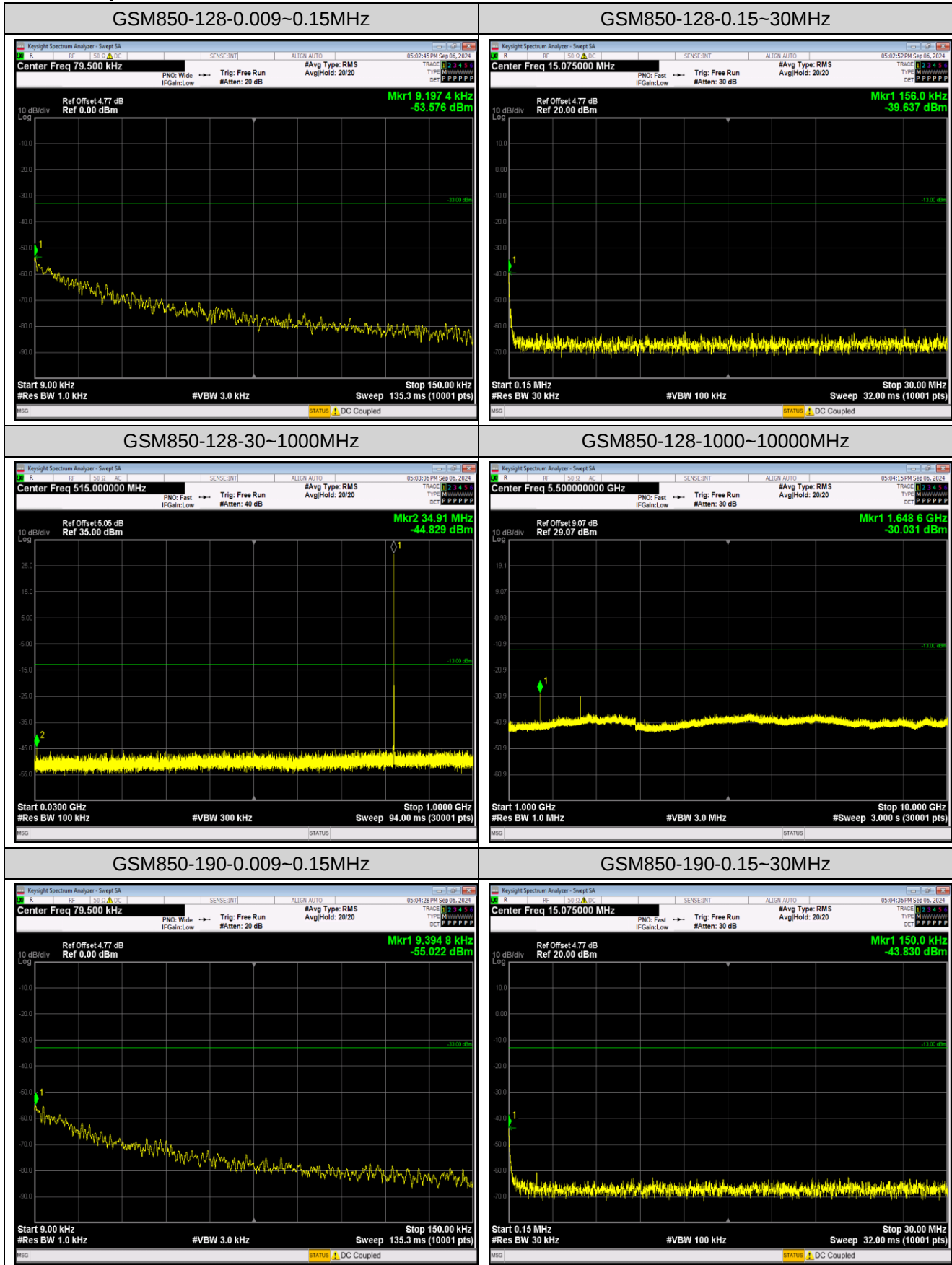
Appendix E: Conducted Spurious Emission

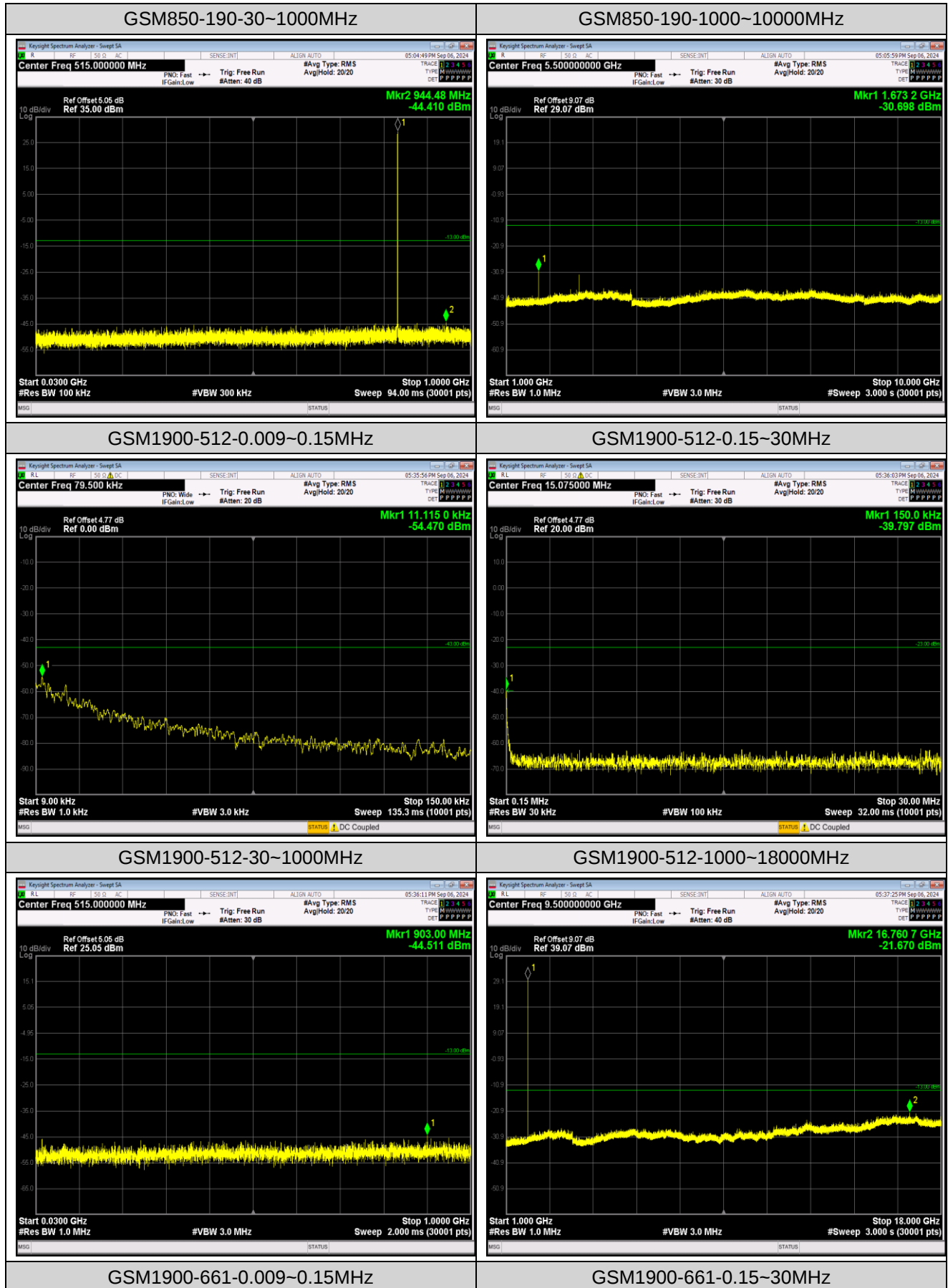
Test Result

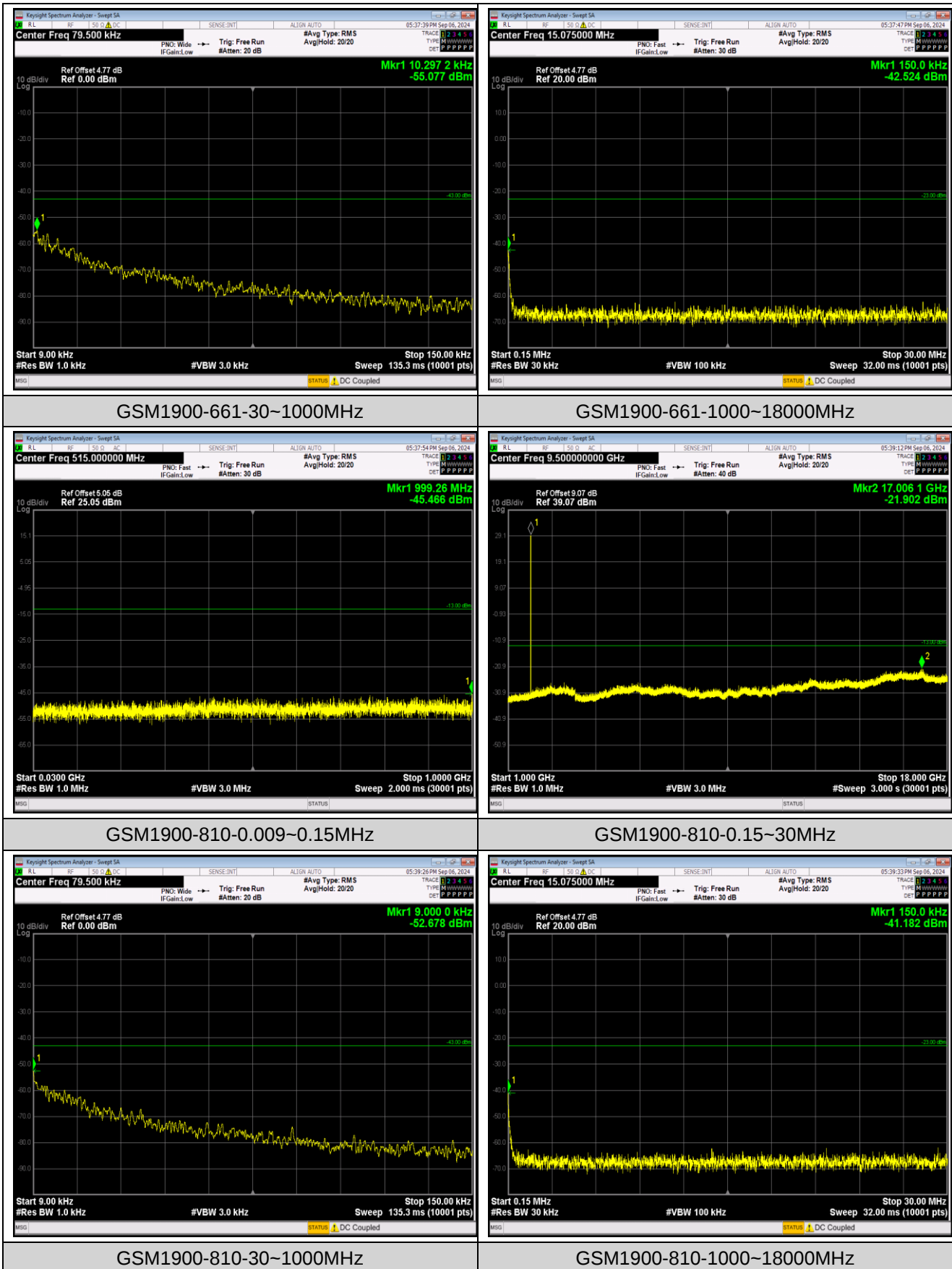
Band	Channel	PCL	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	5	0.009~0.15MHz	0.01	-53.58	-33	PASS
GSM850	128	5	0.15~30MHz	0.16	-39.64	-13	PASS
GSM850	128	5	30~1000MHz	34.91	-44.83	-13	PASS
GSM850	128	5	1000~10000MHz	1648.6	-30.03	-13	PASS
GSM850	190	5	0.009~0.15MHz	0.01	-55.02	-33	PASS
GSM850	190	5	0.15~30MHz	0.15	-43.83	-13	PASS
GSM850	190	5	30~1000MHz	944.48	-44.41	-13	PASS
GSM850	190	5	1000~10000MHz	1673.2	-30.7	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-54.47	-43	PASS
GSM1900	512	0	0.15~30MHz	0.15	-39.8	-23	PASS
GSM1900	512	0	30~1000MHz	903	-44.51	-13	PASS
GSM1900	512	0	1000~18000MHz	16760.7	-21.67	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-55.08	-43	PASS
GSM1900	661	0	0.15~30MHz	0.15	-42.52	-23	PASS
GSM1900	661	0	30~1000MHz	999.26	-45.47	-13	PASS
GSM1900	661	0	1000~18000MHz	17006.07	-21.9	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-52.68	-43	PASS
GSM1900	810	0	0.15~30MHz	0.15	-41.18	-23	PASS
GSM1900	810	0	30~1000MHz	189.6	-45.44	-13	PASS
GSM1900	810	0	1000~18000MHz	16225.2	-21.65	-13	PASS

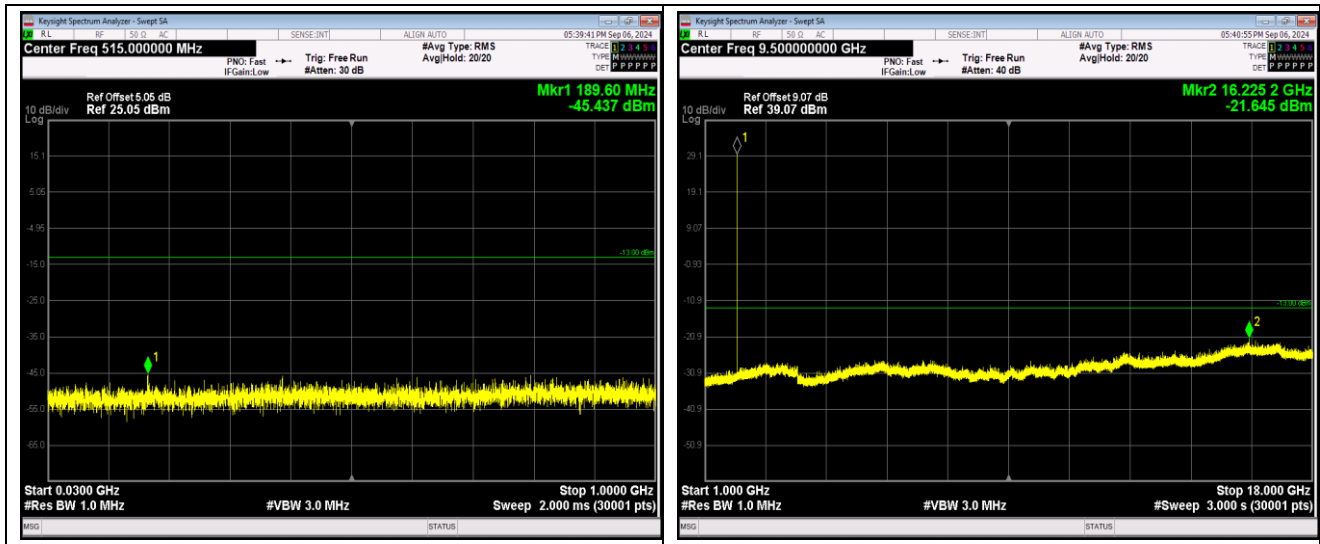
Remark: All channel and all modulation had been tested, but only the worst case data displayed in this report.

Test Graphs









Appendix F: Frequency Stability

Test Result

Reference Frequency: GSM850 Middle channel=190 Frequency=836.6MHz					
Temperature					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	-0.90	-0.001076	±2.5	Pass
	-20	-0.45	-0.000538		
	-10	-0.26	-0.000311		
	0	-0.94	-0.001124		
	10	1.00	0.001195		
	20	3.33	0.003980		
	30	2.78	0.003323		
	40	2.20	0.002630		
	50	0.39	0.000466		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	3.65	0.004363	±2.5	Pass
	3.70	-4.71	-0.005630		
	4.20	1.39	0.001661		
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	1.65	0.000878	Within authorized band for PCS 1900	Pass
	-20	-7.59	-0.004037		
	-10	-3.39	-0.001803		
	0	-1.16	-0.000617		
	10	-5.36	-0.002851		
	20	6.68	0.003553		
	30	3.36	0.001787		
	40	10.30	0.005479		
	50	4.71	0.002505		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	10.17	0.005410	Within authorized band for PCS 1900	Pass
	3.70	5.75	0.003059		
	4.20	8.01	0.004261		
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

