

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	31.28	24.28	38.45	PASS
GSM850	190	5	31.63	24.63	38.45	PASS
GSM850	251	5	31.51	24.51	38.45	PASS
GSM1900	512	0	28.13	25.83	33.00	PASS
GSM1900	661	0	28.66	26.36	33.00	PASS
GSM1900	810	0	28.72	26.42	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	5	1	31.21	24.21	38.45	PASS
GPRS850	128	5	2	29.68	22.68	38.45	PASS
GPRS850	128	5	3	27.94	20.94	38.45	PASS
GPRS850	128	5	4	25.97	18.97	38.45	PASS
GPRS850	190	5	1	31.54	24.54	38.45	PASS
GPRS850	190	5	2	29.95	22.95	38.45	PASS
GPRS850	190	5	3	28.19	21.19	38.45	PASS
GPRS850	190	5	4	26.20	19.2	38.45	PASS
GPRS850	251	5	1	31.42	24.42	38.45	PASS
GPRS850	251	5	2	29.92	22.92	38.45	PASS
GPRS850	251	5	3	28.08	21.08	38.45	PASS
GPRS850	251	5	4	26.07	19.07	38.45	PASS
GPRS1900	512	0	1	28.05	25.75	33.00	PASS
GPRS1900	512	0	2	26.01	23.71	33.00	PASS
GPRS1900	512	0	3	24.43	22.13	33.00	PASS
GPRS1900	512	0	4	22.51	20.21	33.00	PASS
GPRS1900	661	0	1	28.57	26.27	33.00	PASS
GPRS1900	661	0	2	26.65	24.35	33.00	PASS
GPRS1900	661	0	3	25.15	22.85	33.00	PASS
GPRS1900	661	0	4	23.20	20.9	33.00	PASS
GPRS1900	810	0	1	28.67	26.37	33.00	PASS
GPRS1900	810	0	2	26.94	24.64	33.00	PASS
GPRS1900	810	0	3	25.50	23.2	33.00	PASS
GPRS1900	810	0	4	23.61	21.31	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	2.63	13	PASS

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

Test Graphs

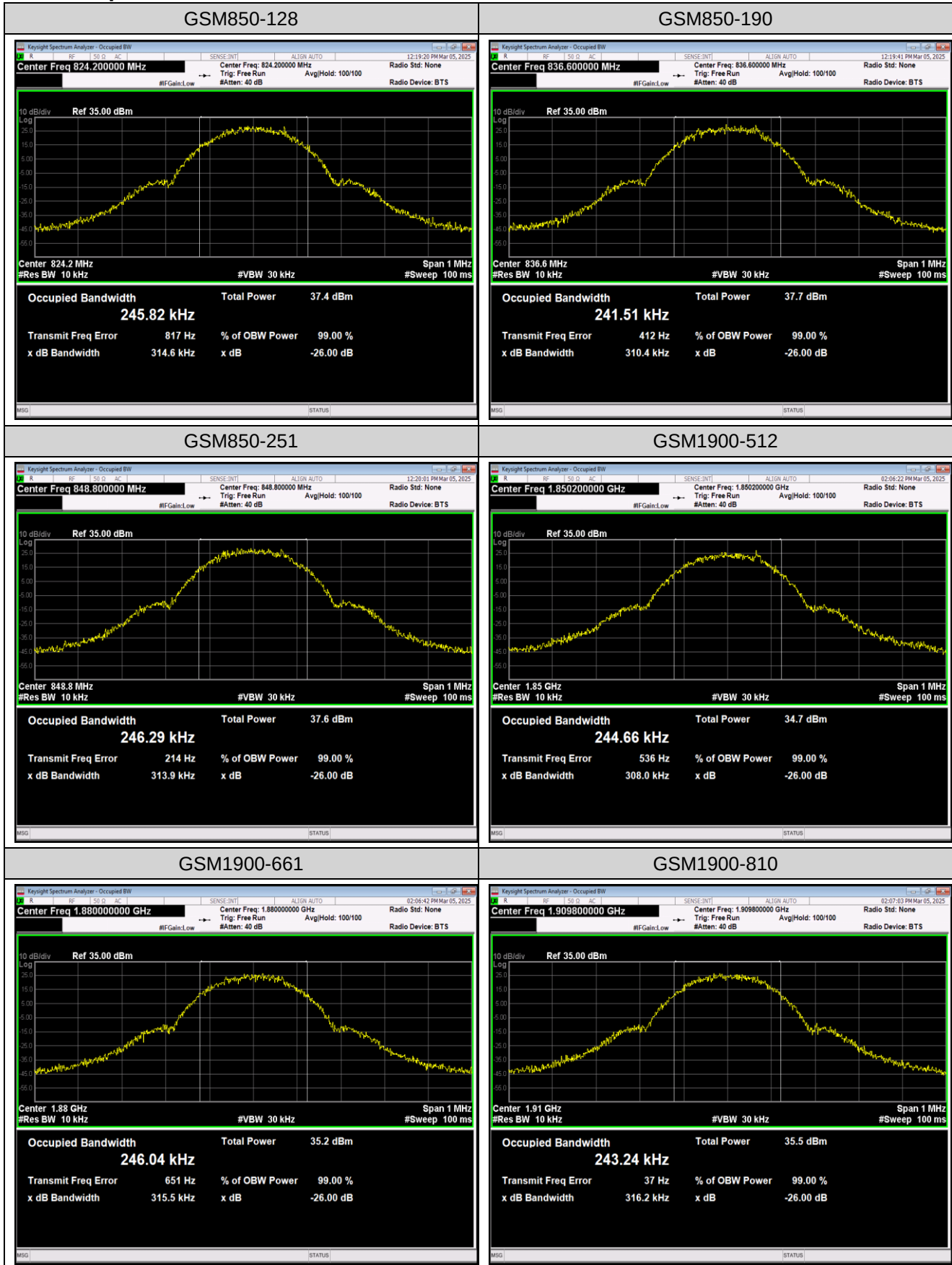


Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	5	0.24582	0.3146	---	PASS
GSM850	190	5	0.24151	0.3104	---	PASS
GSM850	251	5	0.24629	0.3139	---	PASS
GSM1900	512	0	0.24466	0.3080	---	PASS
GSM1900	661	0	0.24604	0.3155	---	PASS
GSM1900	810	0	0.24324	0.3162	---	PASS

Test Graphs

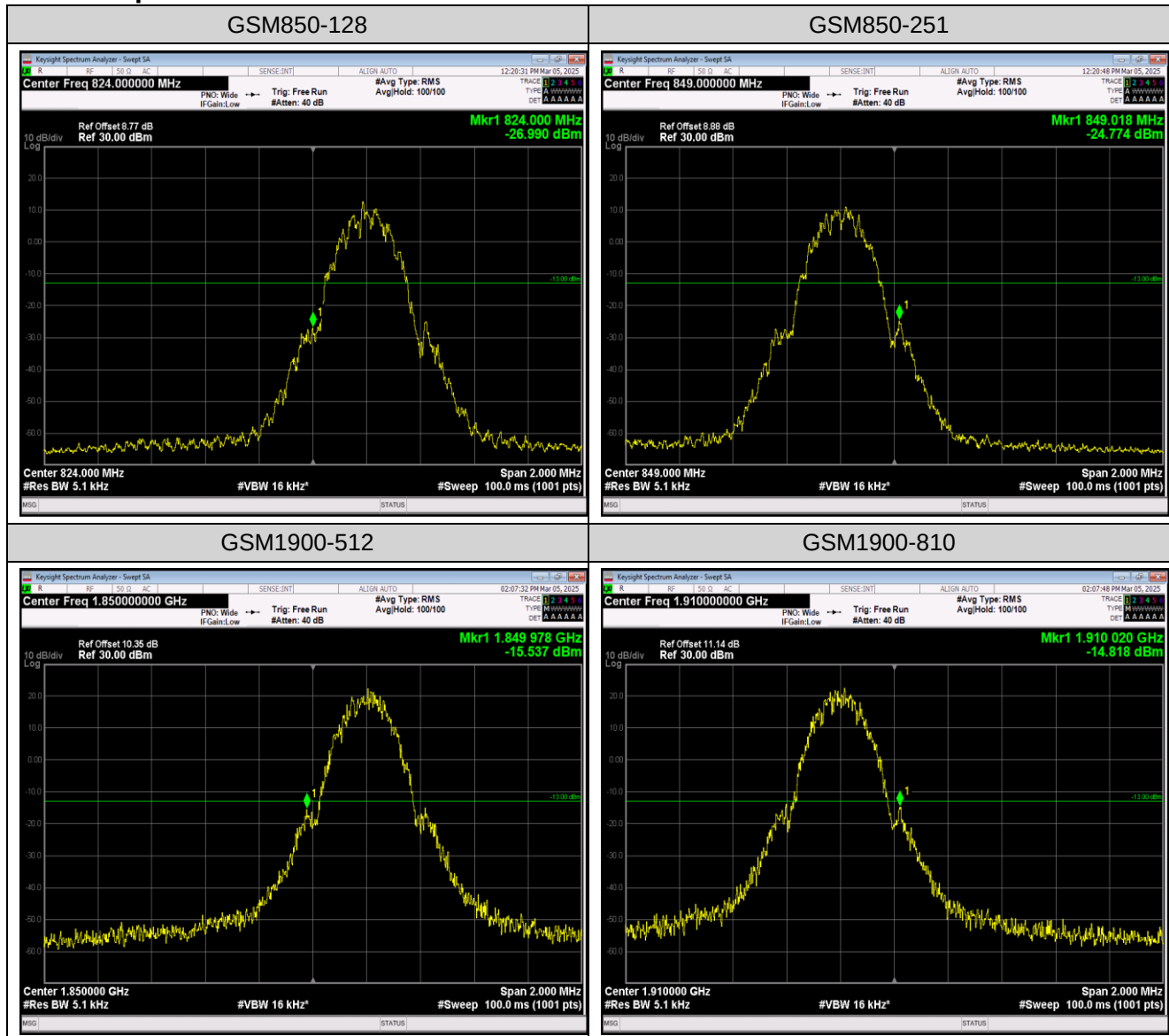


Appendix D: Band Edge

Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	5	824.00	-26.99	-13	PASS
GSM850	251	5	849.02	-24.77	-13	PASS
GSM1900	512	0	1849.98	-15.54	-13	PASS
GSM1900	810	0	1910.02	-14.82	-13	PASS

Test Graphs



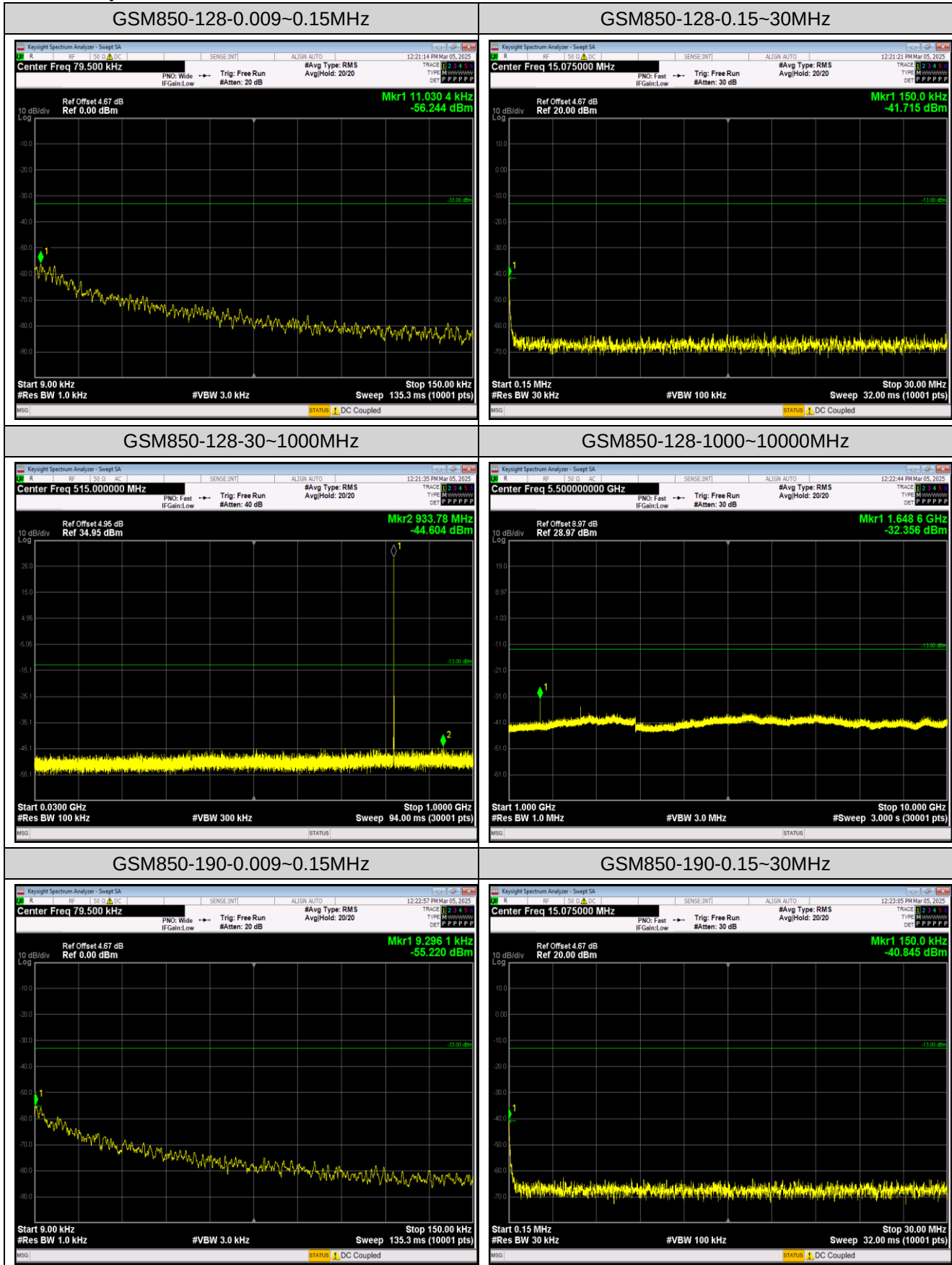
Appendix E: Conducted Spurious Emission

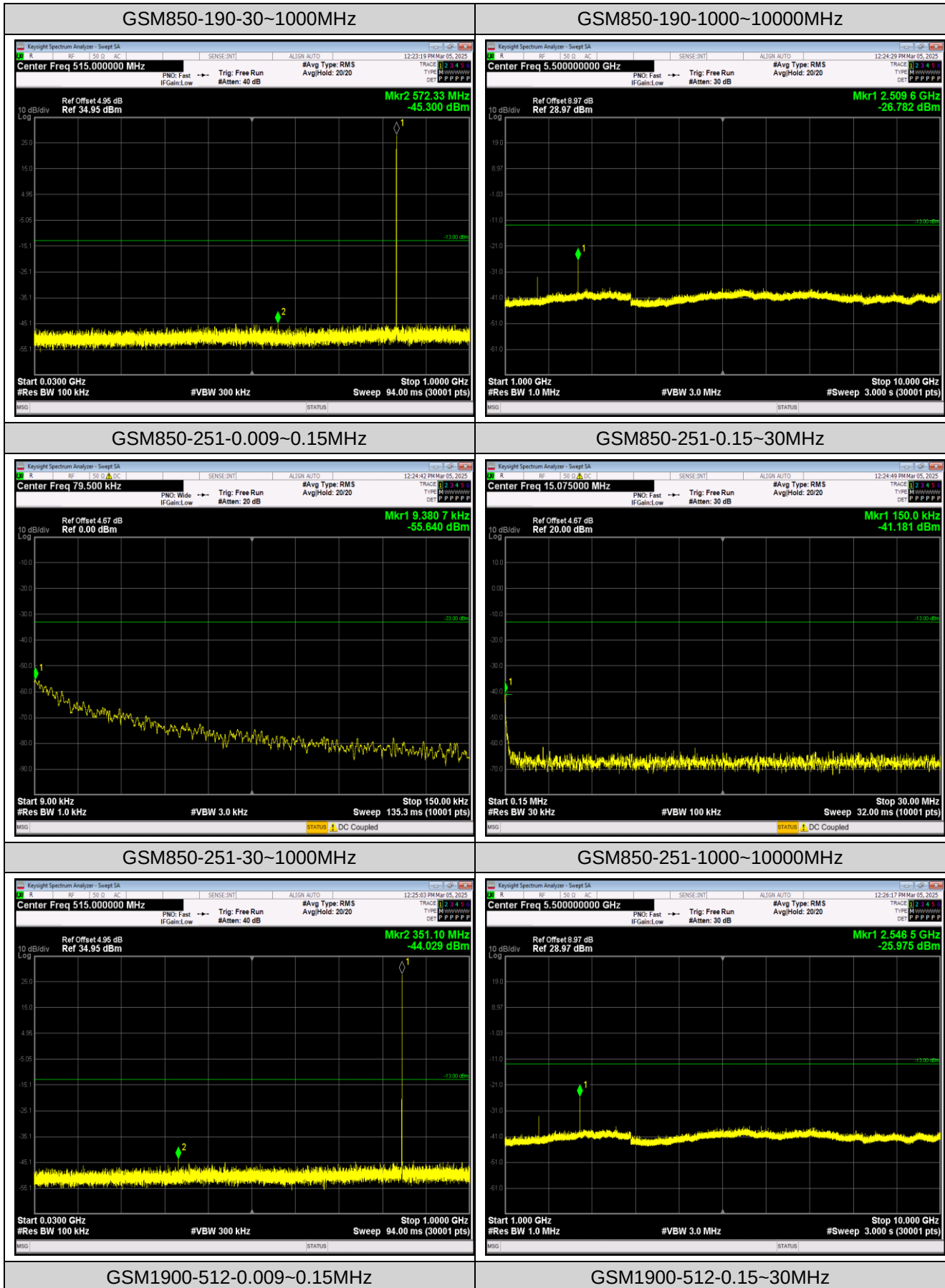
Test Result

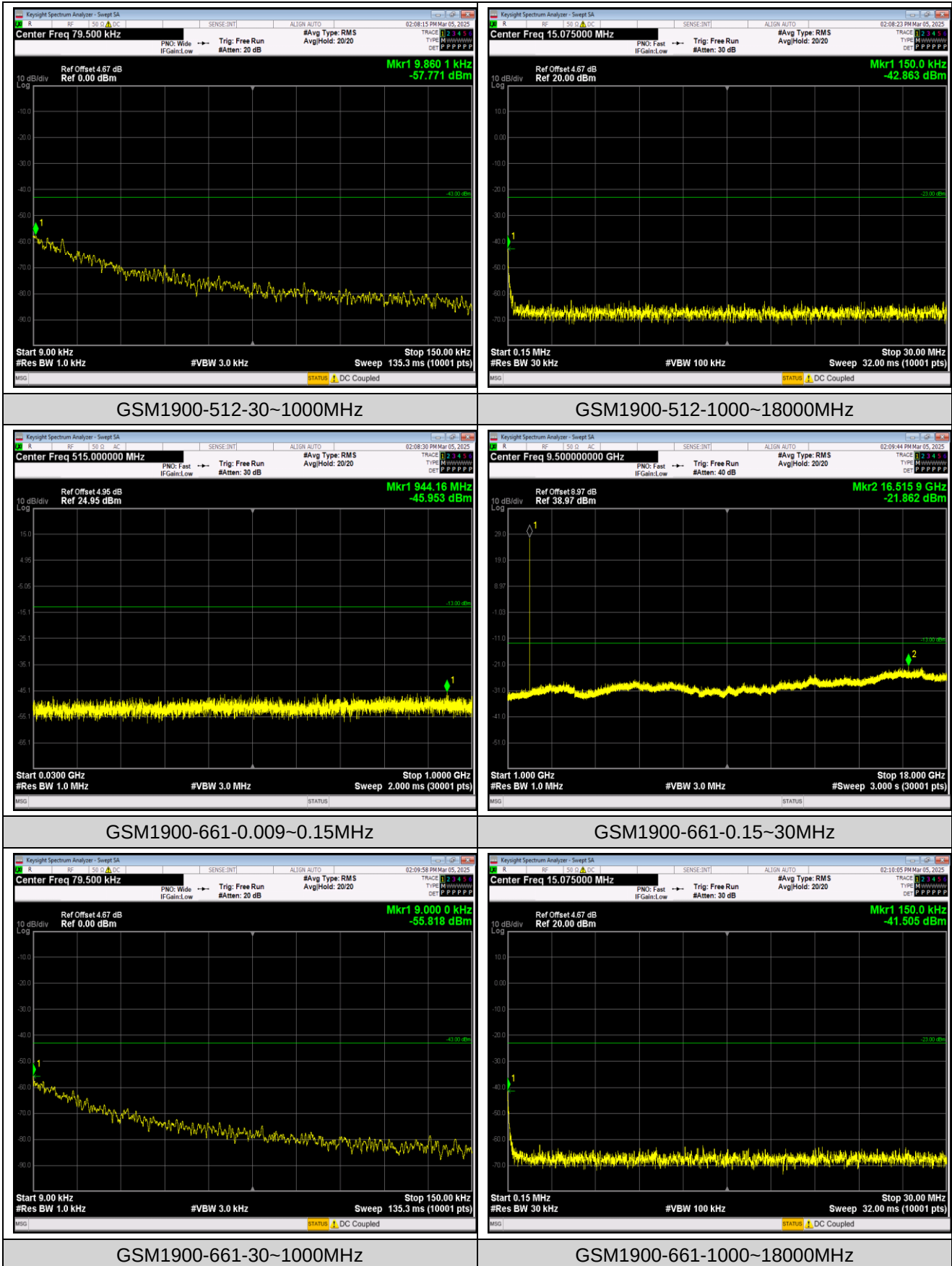
Band	Channel	PCL	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	5	0.009~0.15MHz	0.01	-56.24	-33	PASS
GSM850	128	5	0.15~30MHz	0.15	-41.72	-13	PASS
GSM850	128	5	30~1000MHz	933.78	-44.6	-13	PASS
GSM850	128	5	1000~10000MHz	1648.6	-32.36	-13	PASS
GSM850	190	5	0.009~0.15MHz	0.01	-55.22	-33	PASS
GSM850	190	5	0.15~30MHz	0.15	-40.85	-13	PASS
GSM850	190	5	30~1000MHz	572.33	-45.3	-13	PASS
GSM850	190	5	1000~10000MHz	2509.6	-26.78	-13	PASS
GSM850	251	5	0.009~0.15MHz	0.01	-55.64	-33	PASS
GSM850	251	5	0.15~30MHz	0.15	-41.18	-13	PASS
GSM850	251	5	30~1000MHz	351.1	-44.03	-13	PASS
GSM850	251	5	1000~10000MHz	2546.5	-25.98	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-57.77	-43	PASS
GSM1900	512	0	0.15~30MHz	0.15	-42.86	-23	PASS
GSM1900	512	0	30~1000MHz	944.16	-45.95	-13	PASS
GSM1900	512	0	1000~18000MHz	16515.9	-21.86	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-55.82	-43	PASS
GSM1900	661	0	0.15~30MHz	0.15	-41.51	-23	PASS
GSM1900	661	0	30~1000MHz	804.19	-44.66	-13	PASS
GSM1900	661	0	1000~18000MHz	16363.47	-22.24	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-57.49	-43	PASS
GSM1900	810	0	0.15~30MHz	0.16	-42.64	-23	PASS
GSM1900	810	0	30~1000MHz	481.57	-45.88	-13	PASS
GSM1900	810	0	1000~18000MHz	17028.17	-22.56	-13	PASS

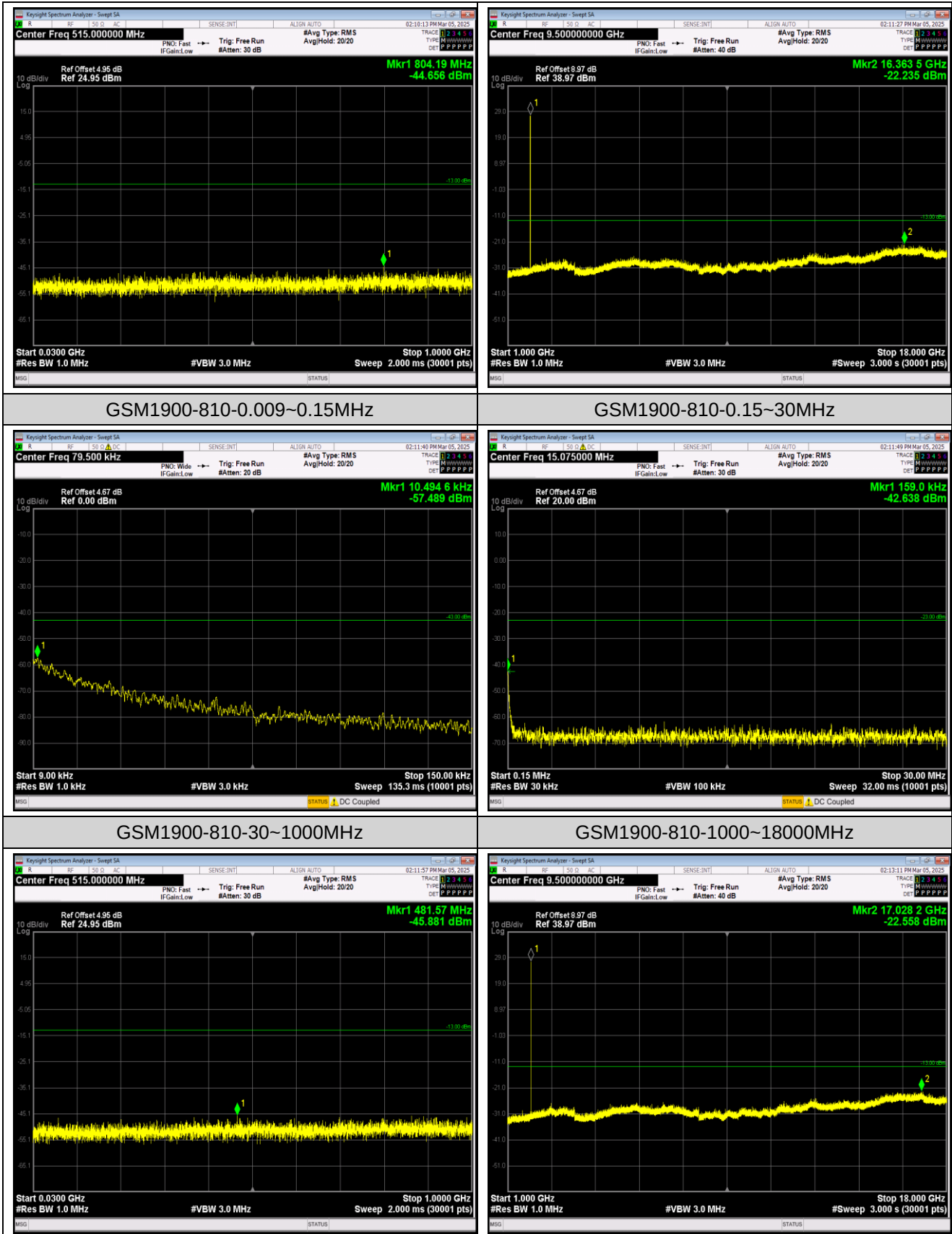
Remark: All channel and all modulation had been tested, but only the worst case data displayed in this report.

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		
3.85	-30	-3.45	-0.004124	±2.5	Pass
	-20	-3.81	-0.004554		
	-10	-8.39	-0.010029		
	0	-4.91	-0.005869		
	10	-1.10	-0.001315		
	20	-5.17	-0.006180		
	30	-3.36	-0.004016		
	40	-3.00	-0.003586		
	50	-2.55	-0.003048		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	-7.39	-0.008833	±2.5	Pass
	3.85	-7.30	-0.008726		
	4.40	-1.32	-0.001578		
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 (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.85	-30	-5.46	-0.002904	Within authorized band for PCS 1900	Pass
	-20	3.52	0.001872		
	-10	-9.17	-0.004878		
	0	-13.04	-0.006936		
	10	8.56	0.004553		
	20	-1.19	-0.000633		
	30	-2.16	-0.001149		
	40	-8.20	-0.004362		
	50	4.91	0.002612		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	1.00	0.000532	Within authorized band for PCS 1900	Pass
	3.85	4.33	0.002303		
	4.40	0.71	0.000378		
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

