

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	33.94	26.79	38.45	PASS
GSM850	190	5	34.32	27.17	38.45	PASS
GSM850	251	5	34.37	27.22	38.45	PASS
GSM1900	512	0	29.31	27.31	33.00	PASS
GSM1900	661	0	29.63	27.63	33.00	PASS
GSM1900	810	0	29.56	27.56	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	5	1	33.67	26.52	38.45	PASS
GPRS850	128	5	2	32.78	25.63	38.45	PASS
GPRS850	128	5	3	31.09	23.94	38.45	PASS
GPRS850	128	5	4	30.41	23.26	38.45	PASS
GPRS850	190	5	1	34.25	27.1	38.45	PASS
GPRS850	190	5	2	32.95	25.8	38.45	PASS
GPRS850	190	5	3	31.60	24.45	38.45	PASS
GPRS850	190	5	4	30.47	23.32	38.45	PASS
GPRS850	251	5	1	34.30	27.15	38.45	PASS
GPRS850	251	5	2	32.99	25.84	38.45	PASS
GPRS850	251	5	3	31.63	24.48	38.45	PASS
GPRS850	251	5	4	30.48	23.33	38.45	PASS
GPRS1900	512	0	1	29.27	26.27	33.00	PASS
GPRS1900	512	0	2	28.38	25.38	33.00	PASS
GPRS1900	512	0	3	26.36	23.36	33.00	PASS
GPRS1900	512	0	4	24.98	21.98	33.00	PASS
GPRS1900	661	0	1	29.58	26.58	33.00	PASS
GPRS1900	661	0	2	28.63	25.63	33.00	PASS
GPRS1900	661	0	3	26.63	23.63	33.00	PASS
GPRS1900	661	0	4	25.24	22.24	33.00	PASS
GPRS1900	810	0	1	29.52	26.52	33.00	PASS
GPRS1900	810	0	2	28.57	25.57	33.00	PASS
GPRS1900	810	0	3	26.55	23.55	33.00	PASS
GPRS1900	810	0	4	25.16	22.16	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	2.63	13	PASS
GSM1900	661	0	2.66	13	PASS

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

Test Graphs

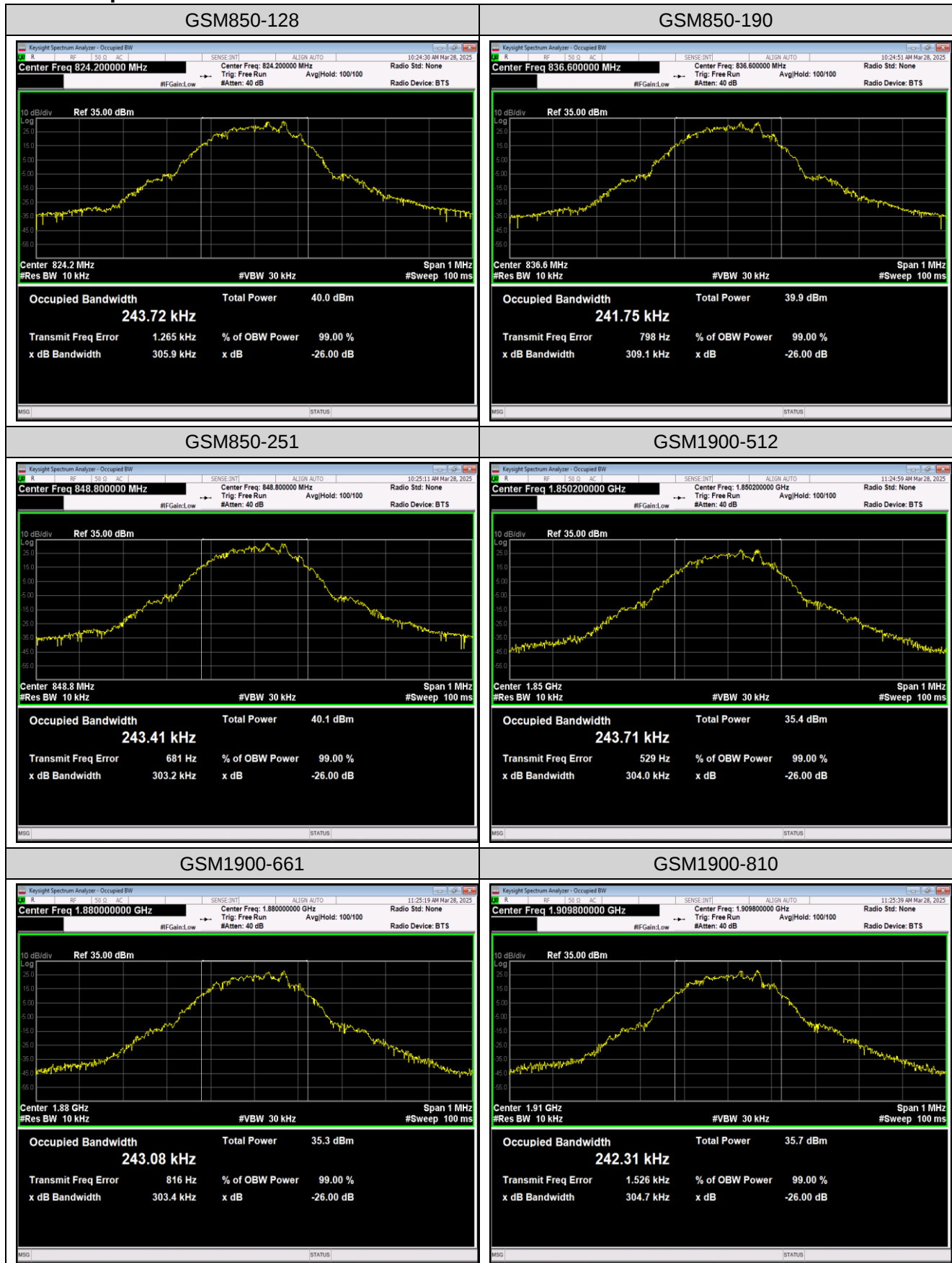


Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	5	0.24372	0.3059	---	PASS
GSM850	190	5	0.24175	0.3091	---	PASS
GSM850	251	5	0.24341	0.3032	---	PASS
GSM1900	512	0	0.24371	0.3040	---	PASS
GSM1900	661	0	0.24308	0.3034	---	PASS
GSM1900	810	0	0.24231	0.3047	---	PASS

Test Graphs

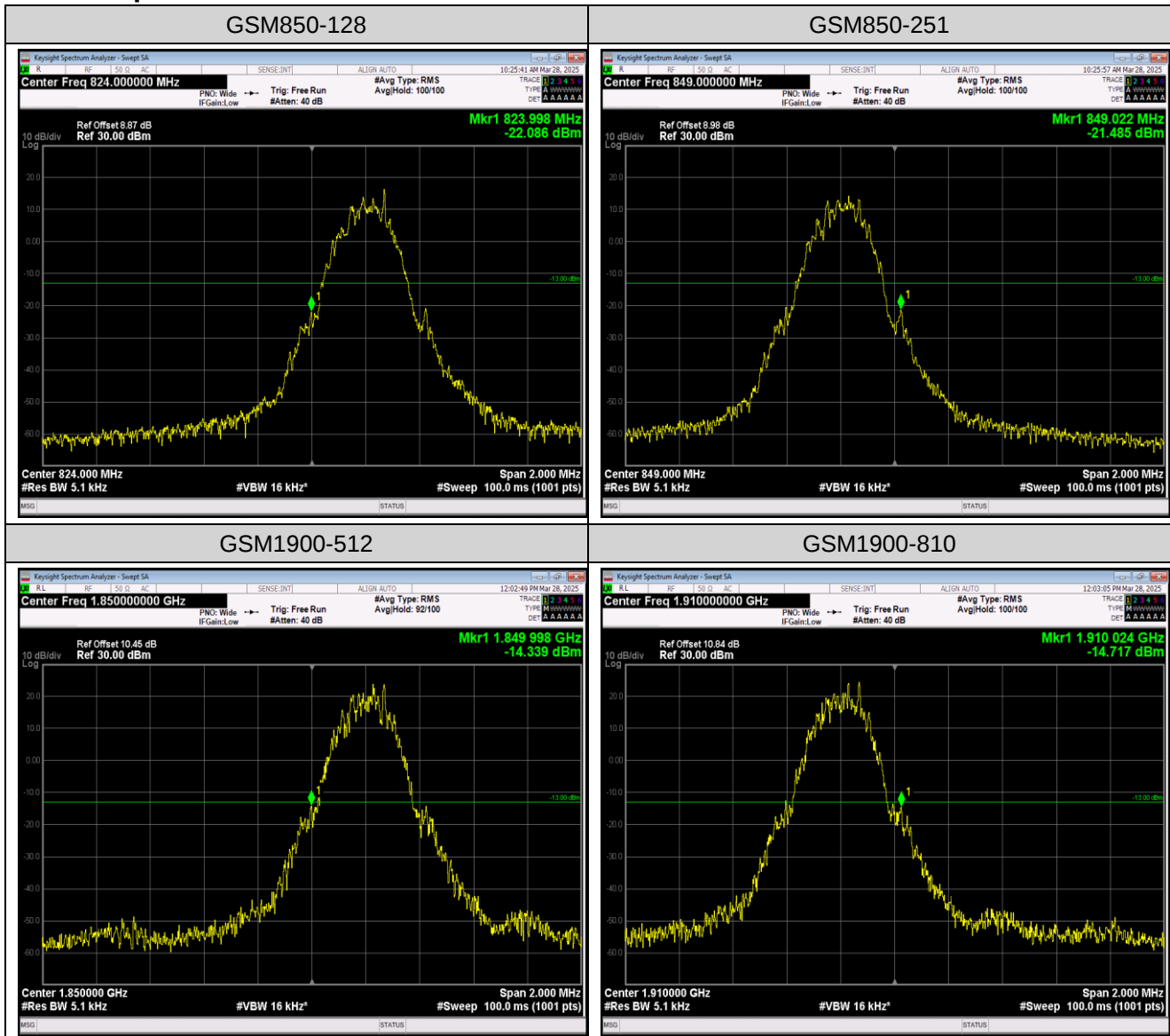


Appendix D: Band Edge

Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	5	824.00	-22.09	-13	PASS
GSM850	251	5	849.02	-21.48	-13	PASS
GSM1900	512	0	1850.00	-14.34	-13	PASS
GSM1900	810	0	1910.02	-14.72	-13	PASS

Test Graphs



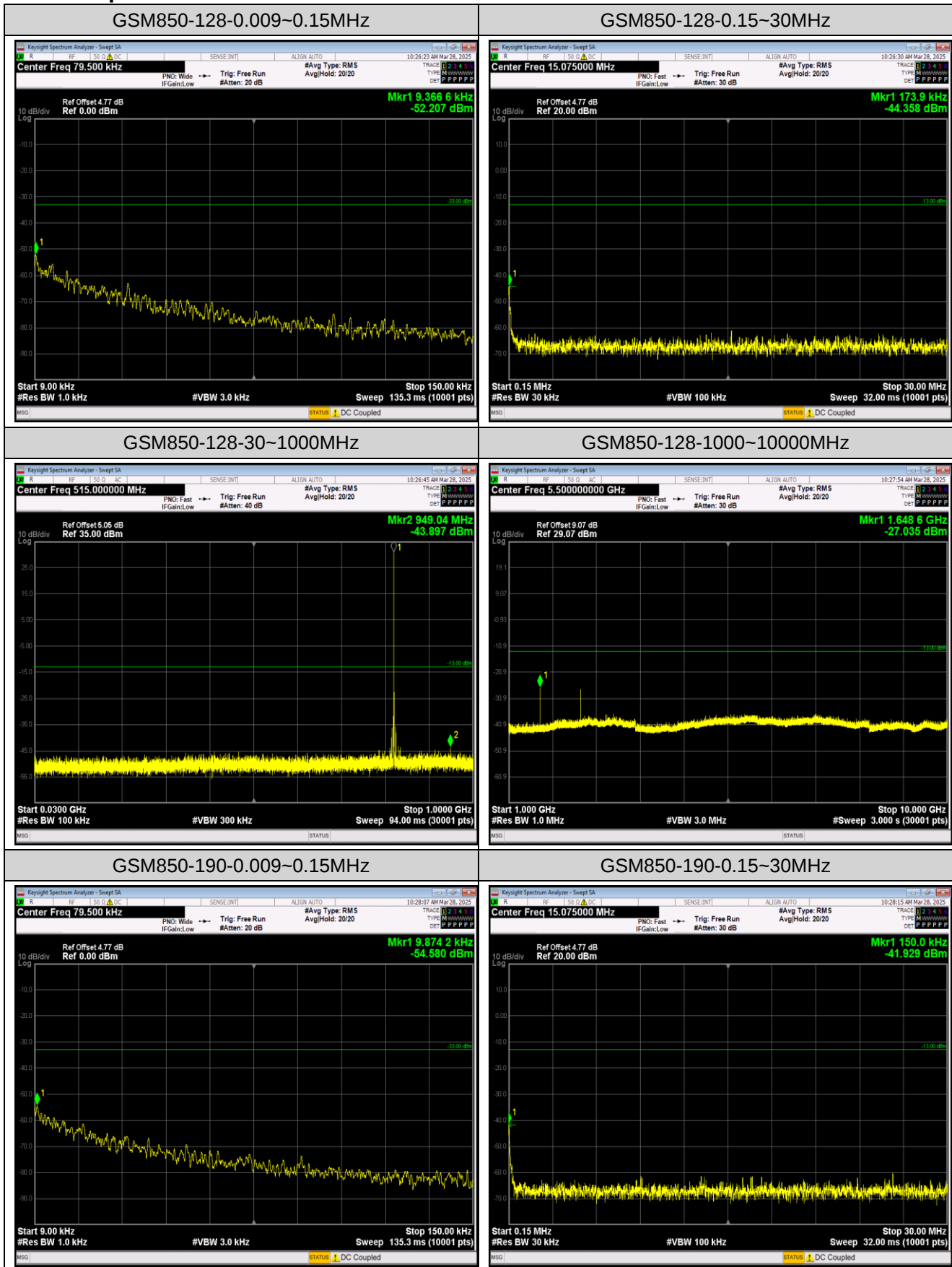
Appendix E: Conducted Spurious Emission

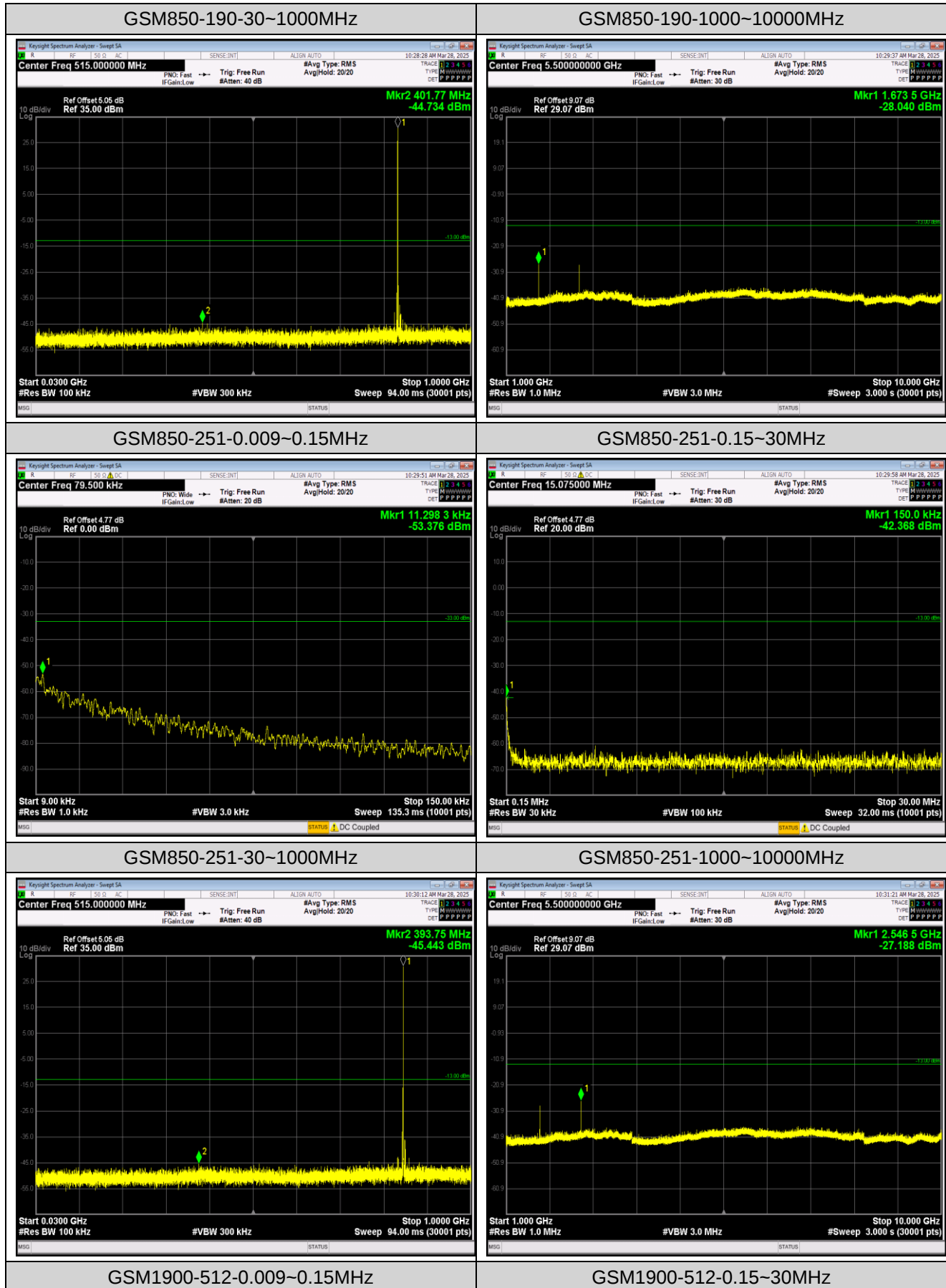
Test Result

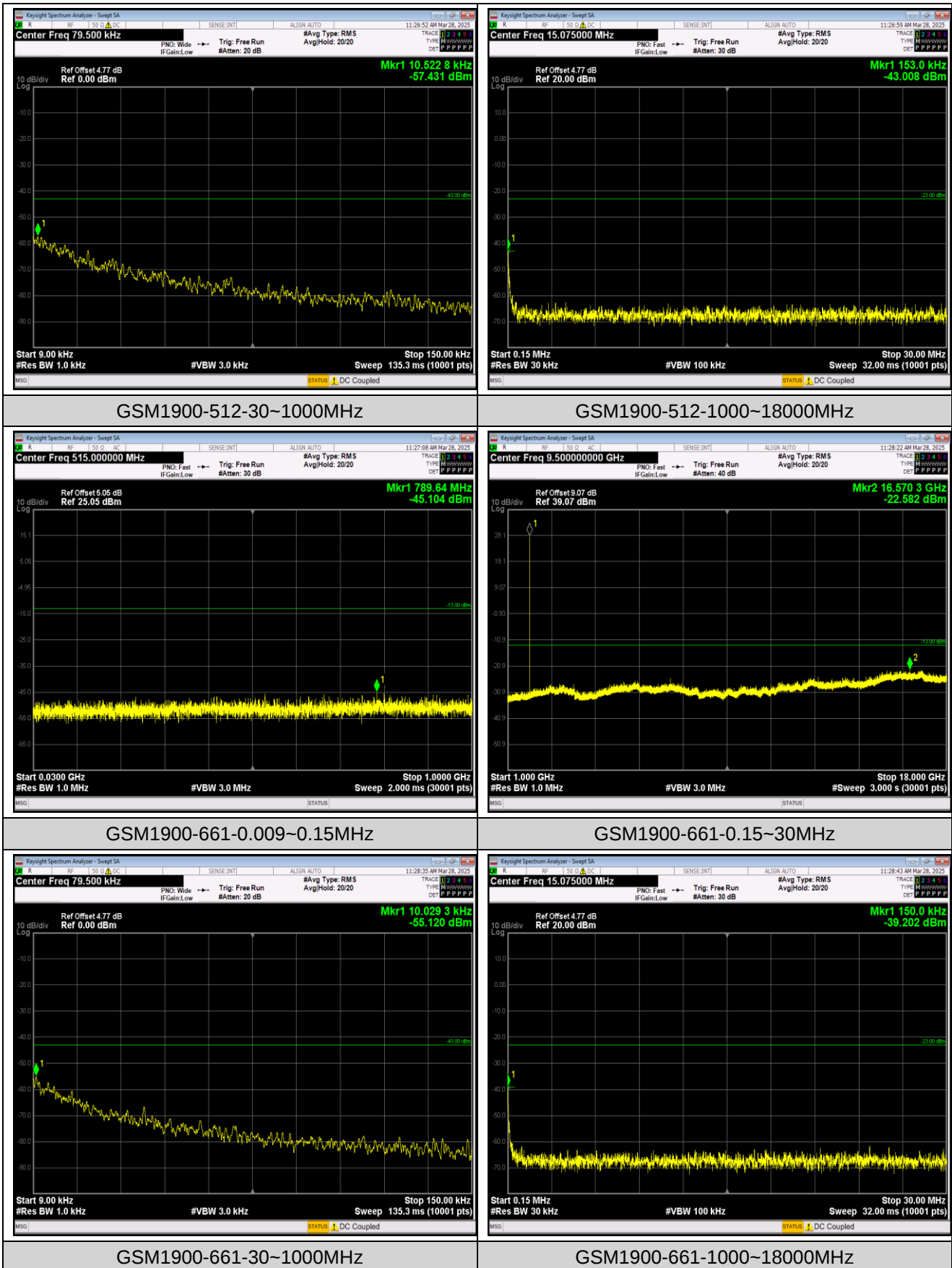
Band	Channel	PCL	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	5	0.009~0.15MHz	0.01	-52.21	-33	PASS
GSM850	128	5	0.15~30MHz	0.17	-44.36	-13	PASS
GSM850	128	5	30~1000MHz	949.04	-43.9	-13	PASS
GSM850	128	5	1000~10000MHz	1648.6	-27.04	-13	PASS
GSM850	190	5	0.009~0.15MHz	0.01	-54.58	-33	PASS
GSM850	190	5	0.15~30MHz	0.15	-41.93	-13	PASS
GSM850	190	5	30~1000MHz	401.77	-44.73	-13	PASS
GSM850	190	5	1000~10000MHz	1673.5	-28.04	-13	PASS
GSM850	251	5	0.009~0.15MHz	0.01	-53.38	-33	PASS
GSM850	251	5	0.15~30MHz	0.15	-42.37	-13	PASS
GSM850	251	5	30~1000MHz	393.75	-45.44	-13	PASS
GSM850	251	5	1000~10000MHz	2546.5	-27.19	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-57.43	-43	PASS
GSM1900	512	0	0.15~30MHz	0.15	-43.01	-23	PASS
GSM1900	512	0	30~1000MHz	789.64	-45.1	-13	PASS
GSM1900	512	0	1000~18000MHz	16570.3	-22.58	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-55.12	-43	PASS
GSM1900	661	0	0.15~30MHz	0.15	-39.2	-23	PASS
GSM1900	661	0	30~1000MHz	808.17	-45.15	-13	PASS
GSM1900	661	0	1000~18000MHz	16963.57	-22.17	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-55.9	-43	PASS
GSM1900	810	0	0.15~30MHz	0.15	-43.77	-23	PASS
GSM1900	810	0	30~1000MHz	352.78	-45.29	-13	PASS
GSM1900	810	0	1000~18000MHz	16994.73	-22.41	-13	PASS

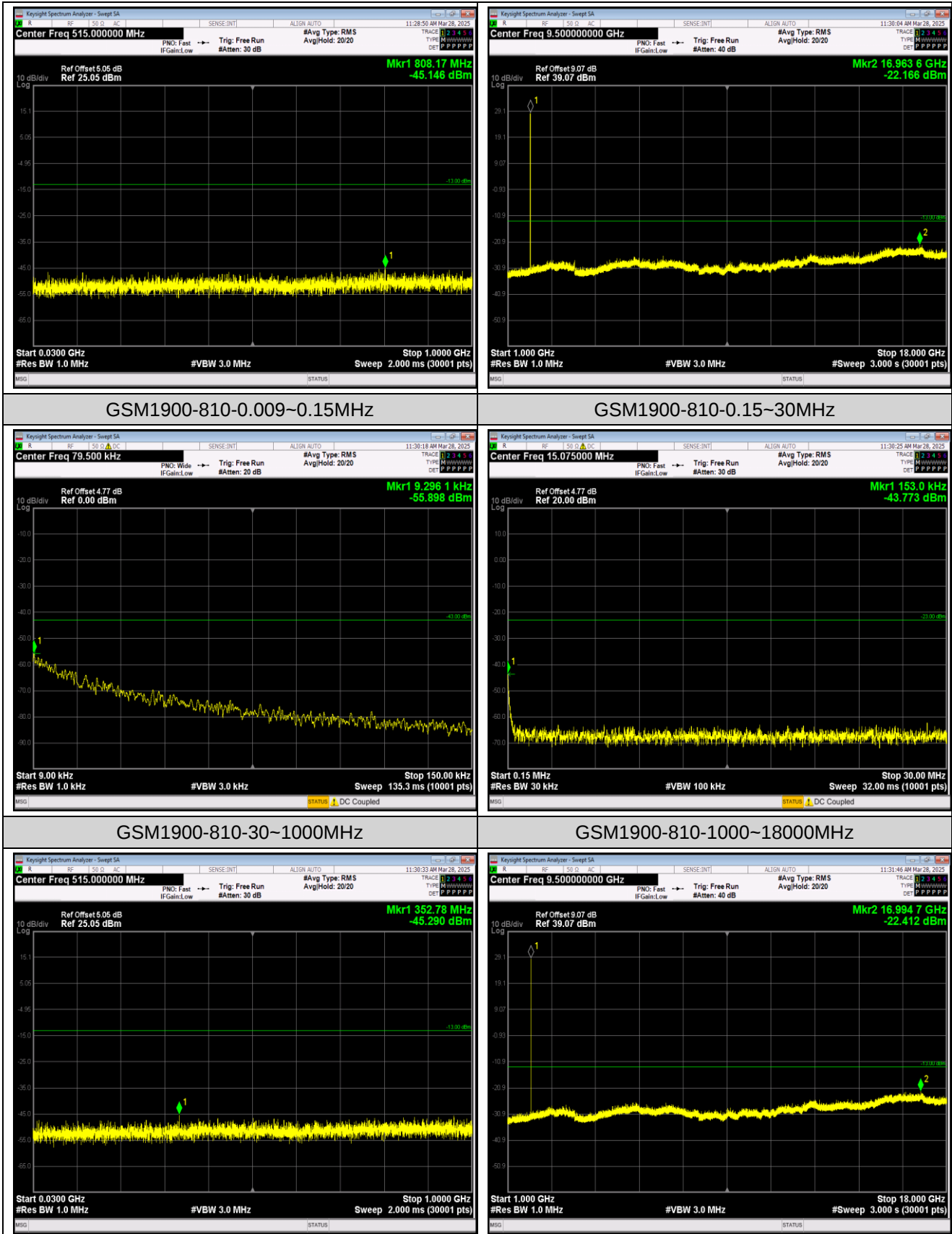
Remark: All channel and all modulation had been tested, but only the worst case data displayed in this report.

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		
3.92	-30	8.46	0.010112	±2.5	Pass
	-20	10.85	0.012969		
	-10	12.91	0.015432		
	0	11.69	0.013973		
	10	12.37	0.014786		
	20	8.81	0.010531		
	30	8.14	0.009730		
	40	9.88	0.011810		
	50	10.85	0.012969		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	9.20	0.010997	±2.5	Pass
	3.92	11.46	0.013698		
	4.53	7.01	0.008379		
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		
3.92	-30	0.32	0.000170	Within authorized band for PCS 1900	Pass
	-20	1.16	0.000617		
	-10	-0.74	-0.000394		
	0	5.36	0.002851		
	10	5.62	0.002989		
	20	-0.87	-0.000463		
	30	5.65	0.003005		
	40	4.88	0.002596		
	50	9.14	0.004862		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	20.76	0.011043	Within authorized band for PCS 1900	Pass
	3.92	19.15	0.010186		
	4.53	-1.13	-0.000601		
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

