

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	32.07	29.58	38.45	PASS
GSM850	190	5	31.87	29.38	38.45	PASS
GSM850	251	5	31.90	29.41	38.45	PASS
GSM1900	512	0	29.32	29.52	33.00	PASS
GSM1900	661	0	29.42	29.62	33.00	PASS
GSM1900	810	0	29.34	29.54	33.00	PASS

Remark: $EIRP\ (dBm) = \text{Conducted power}\ (dBm) + \text{Antenna Gain}\ (dBi)$. (For GSM1900)

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

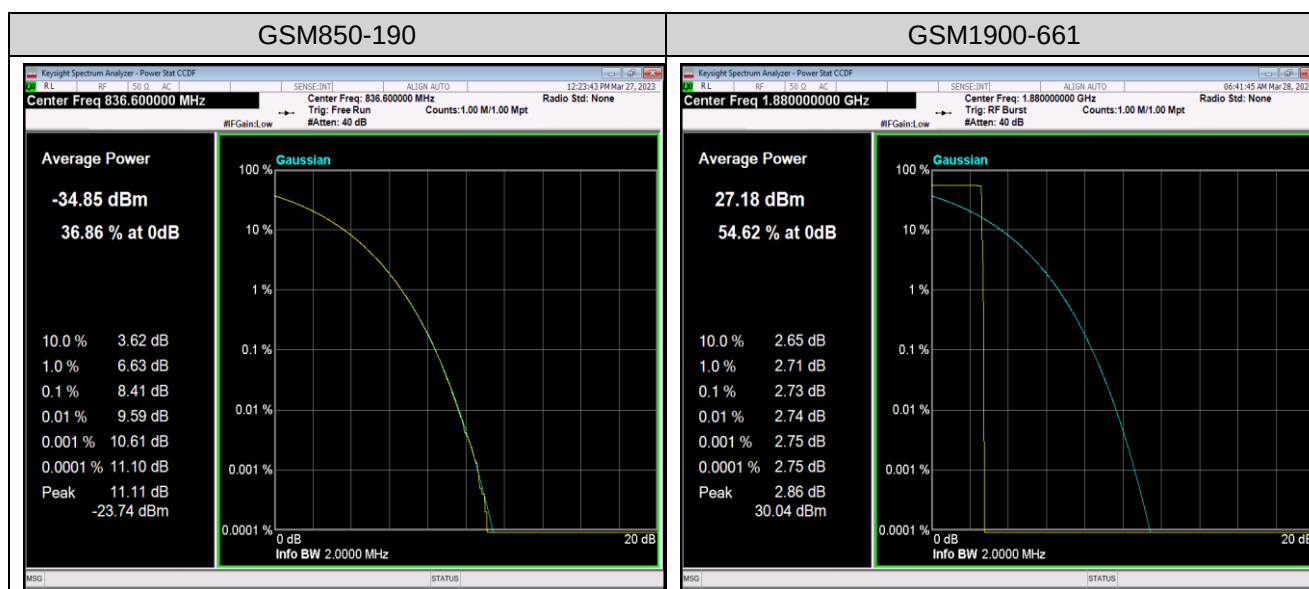
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	PCL	Result(dB)	Limit(dB)	Verdict
GSM850	190	5	8.41	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

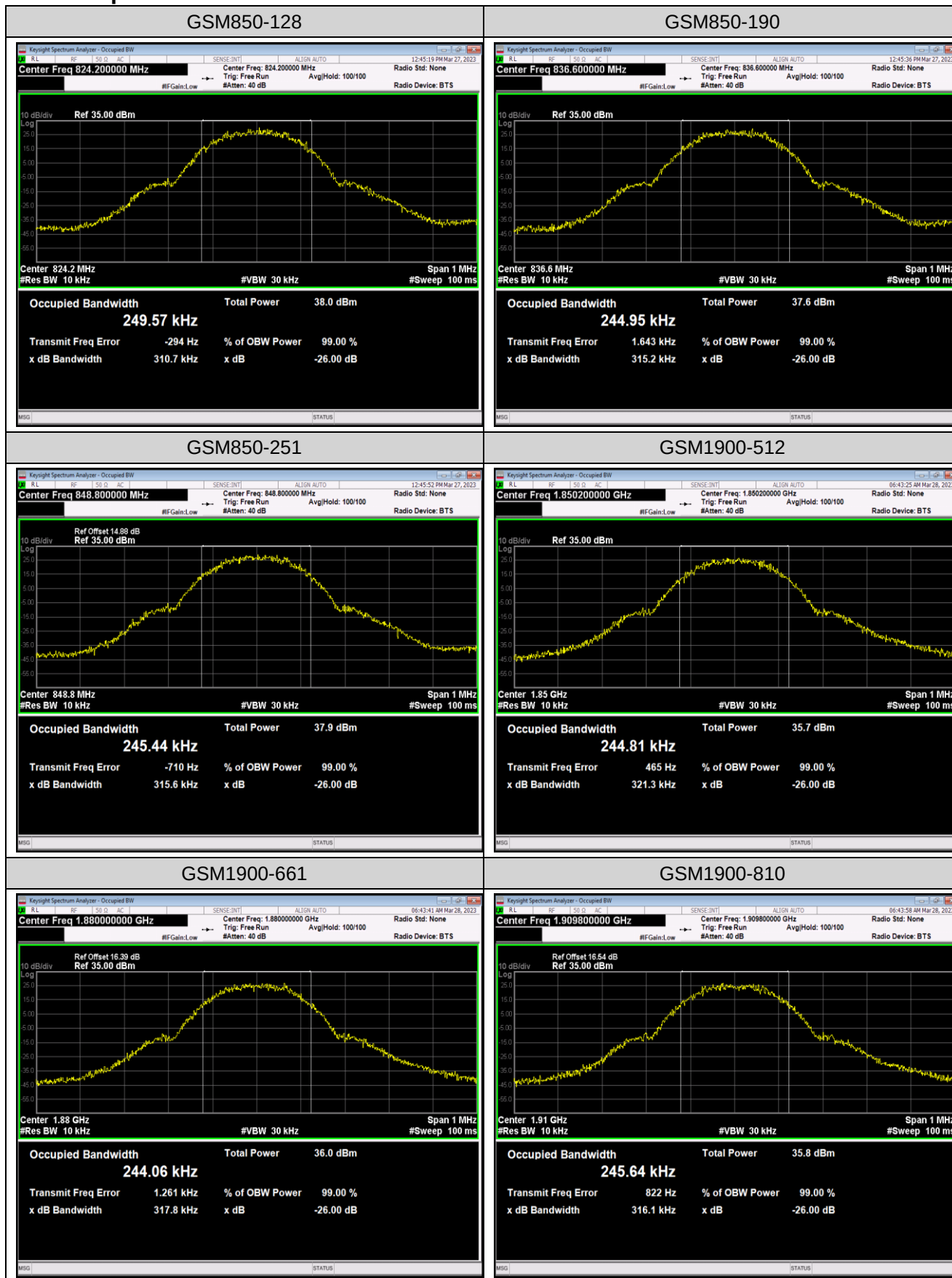


Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	5	0.24957	0.3107	---	PASS
GSM850	190	5	0.24495	0.3152	---	PASS
GSM850	251	5	0.24544	0.3156	---	PASS
GSM1900	512	0	0.24481	0.3213	---	PASS
GSM1900	661	0	0.24406	0.3178	---	PASS
GSM1900	810	0	0.24564	0.3161	---	PASS

Test Graphs

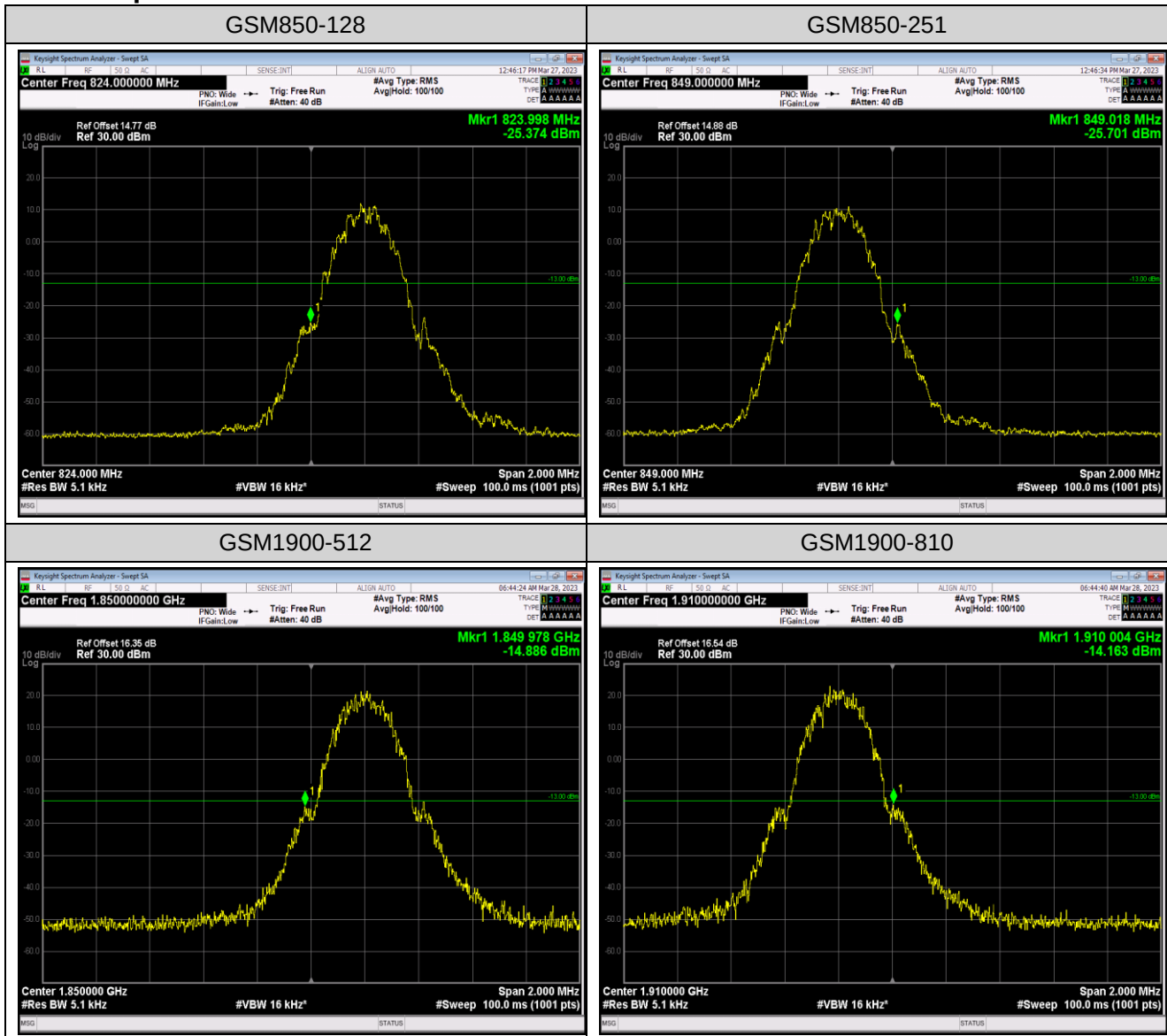


Appendix D: Band Edge

Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	5	824.00	-25.37	-13	PASS
GSM850	251	5	849.02	-25.70	-13	PASS
GSM1900	512	0	1849.98	-14.89	-13	PASS
GSM1900	810	0	1910.00	-14.16	-13	PASS

Test Graphs



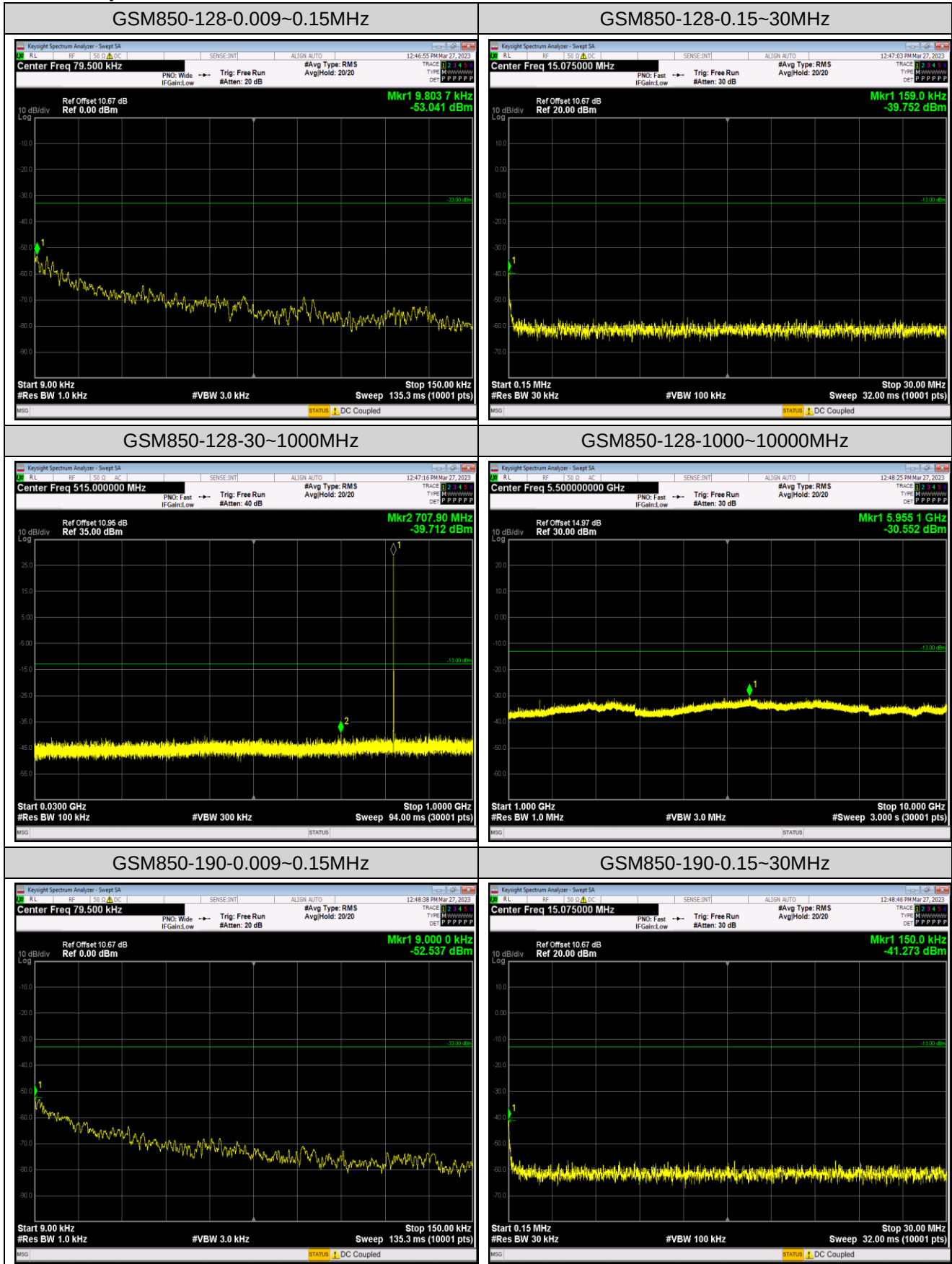
Appendix E: Conducted Spurious Emission

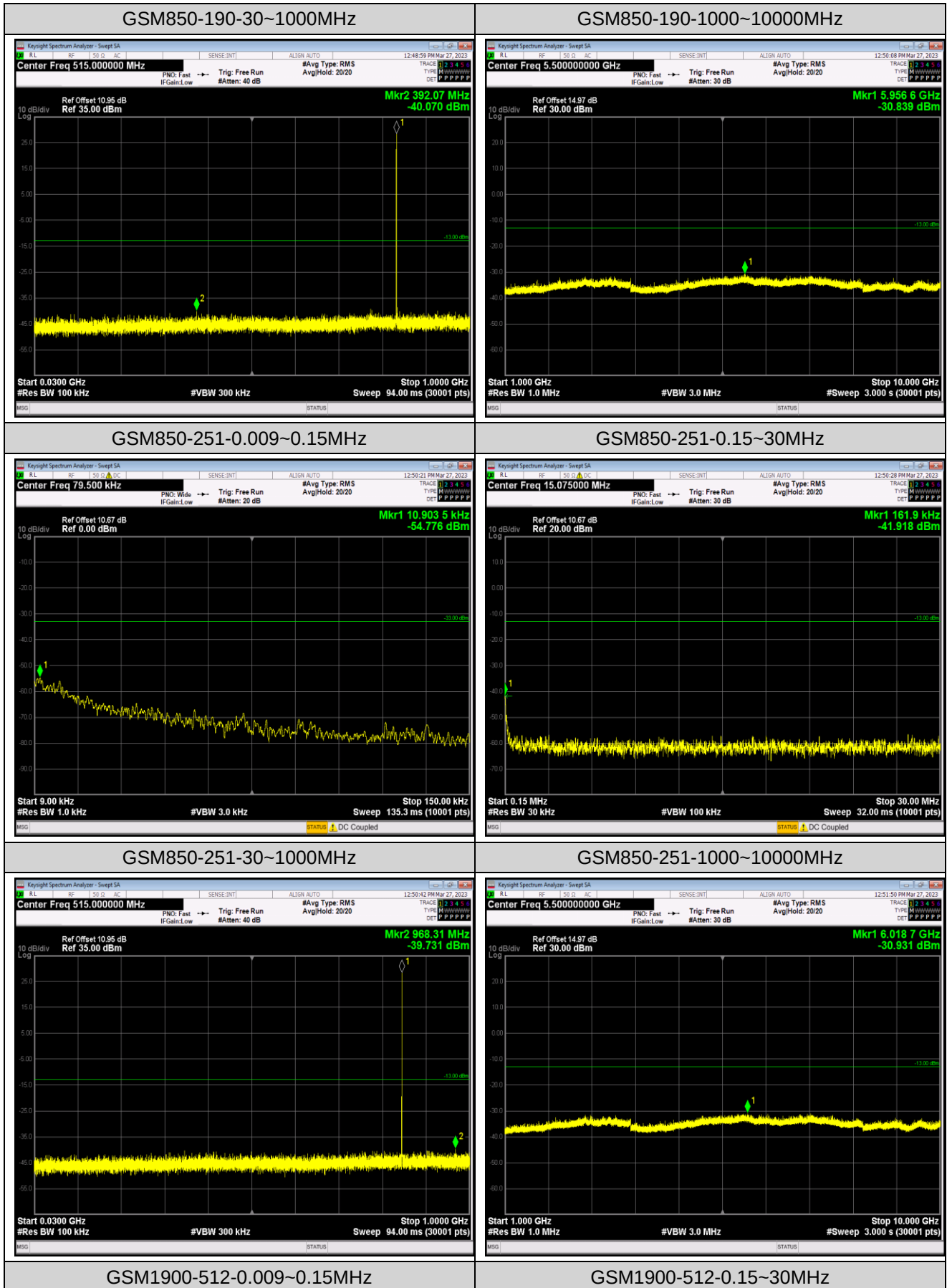
Test Result

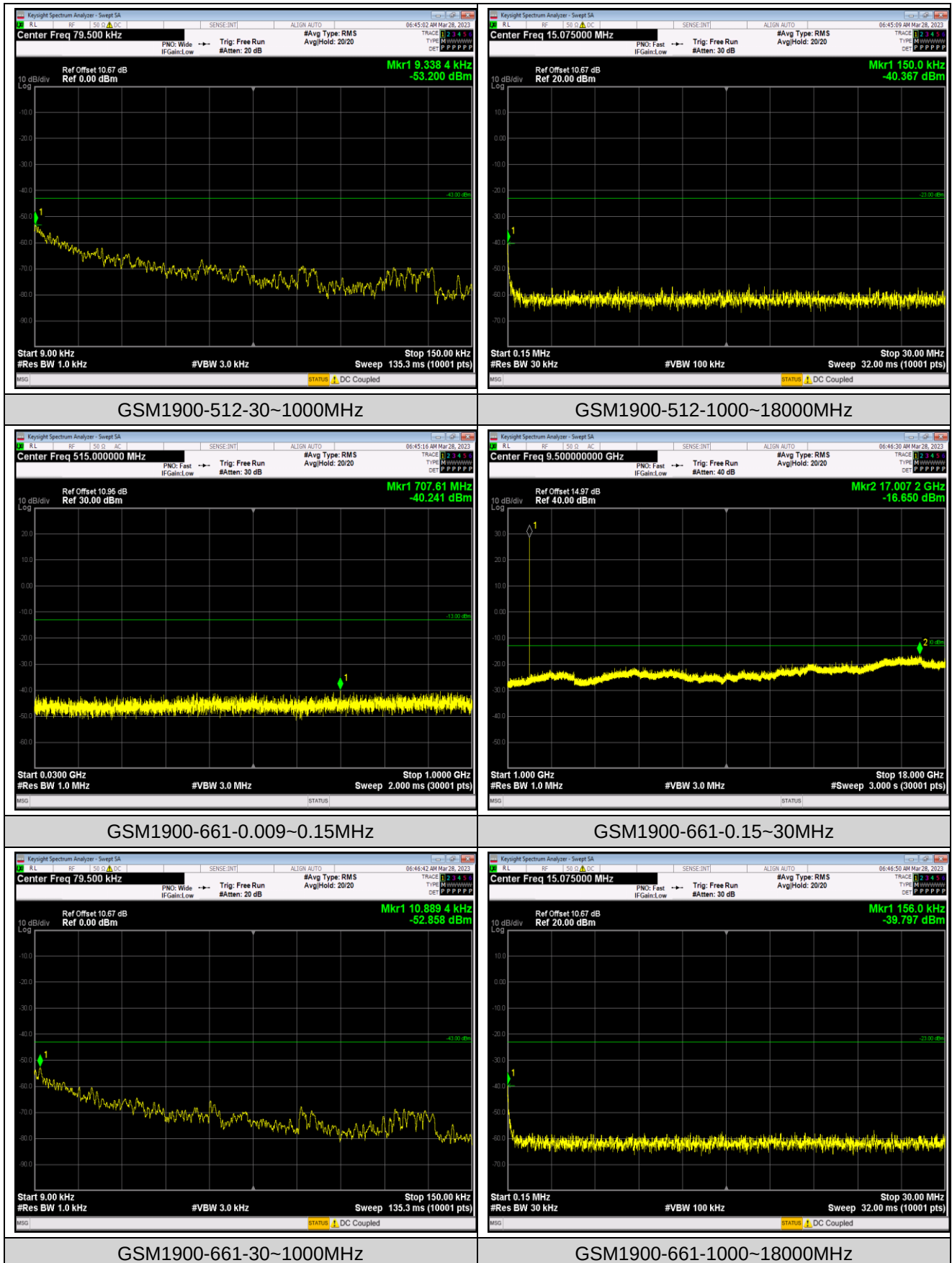
Band	Channel	PCL	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	5	0.009~0.15MHz	0.01	-53.04	-33	PASS
GSM850	128	5	0.15~30MHz	0.16	-39.75	-13	PASS
GSM850	128	5	30~1000MHz	707.9	-39.71	-13	PASS
GSM850	128	5	1000~10000MHz	5955.1	-30.55	-13	PASS
GSM850	190	5	0.009~0.15MHz	0.01	-52.54	-33	PASS
GSM850	190	5	0.15~30MHz	0.15	-41.27	-13	PASS
GSM850	190	5	30~1000MHz	392.07	-40.07	-13	PASS
GSM850	190	5	1000~10000MHz	5956.6	-30.84	-13	PASS
GSM850	251	5	0.009~0.15MHz	0.01	-54.78	-33	PASS
GSM850	251	5	0.15~30MHz	0.16	-41.92	-13	PASS
GSM850	251	5	30~1000MHz	968.31	-39.73	-13	PASS
GSM850	251	5	1000~10000MHz	6018.7	-30.93	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-53.2	-43	PASS
GSM1900	512	0	0.15~30MHz	0.15	-40.37	-23	PASS
GSM1900	512	0	30~1000MHz	707.61	-40.24	-13	PASS
GSM1900	512	0	1000~18000MHz	17007.2	-16.65	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-52.86	-43	PASS
GSM1900	661	0	0.15~30MHz	0.16	-39.8	-23	PASS
GSM1900	661	0	30~1000MHz	894.79	-39.3	-13	PASS
GSM1900	661	0	1000~18000MHz	16234.27	-15.84	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-54.83	-43	PASS
GSM1900	810	0	0.15~30MHz	0.15	-42.14	-23	PASS
GSM1900	810	0	30~1000MHz	894.79	-39.6	-13	PASS
GSM1900	810	0	1000~18000MHz	16984.53	-16.82	-13	PASS

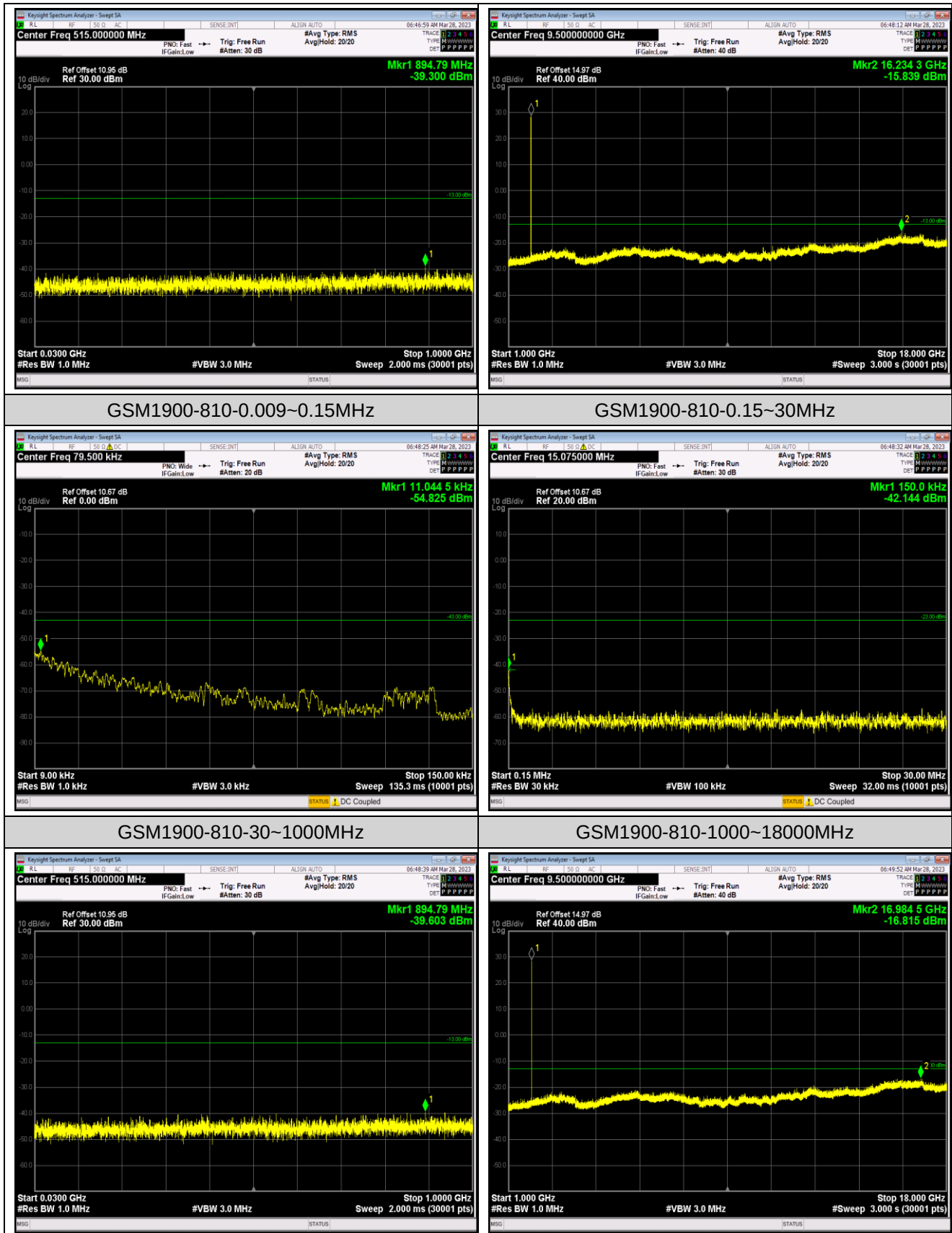
Remark: All channel and all modulation had been tested, but only the worst case data displayed in this report.

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	-14.24	-0.017021	±2.5	Pass
	-20	-17.43	-0.020834		
	-10	-6.88	-0.008224		
	0	-20.34	-0.024313		
	10	-20.89	-0.024970		
	20	-12.59	-0.015049		
	30	-13.20	-0.015778		
	40	-14.92	-0.017834		
	50	-19.73	-0.023584		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.60	-13.69	-0.016364	±2.5	Pass
	3.70	-18.60	-0.022233		
	4.20	-16.14	-0.019292		
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		
3.7	-30	-22.44	-0.011936	±2.5	Pass
	-20	-24.63	-0.013101		
	-10	-12.59	-0.006697		
	0	-22.21	-0.011814		
	10	-13.01	-0.006920		
	20	-17.76	-0.009447		
	30	-22.54	-0.011989		
	40	-14.17	-0.007537		
	50	-10.53	-0.005601		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.60	-18.73	-0.009963	±2.5	Pass
	3.70	-17.79	-0.009463		
	4.20	-14.59	-0.007761		
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

