

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	27.12	38.45	PASS
GSM850	190	5	32.04	27.09	38.45	PASS
GSM850	251	5	31.87	26.92	38.45	PASS
GSM1900	512	0	28.17	27.84	33.00	PASS
GSM1900	661	0	26.50	26.17	33.00	PASS
GSM1900	810	0	24.83	24.5	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	2.65	13	PASS
GSM1900	661	0	2.68	13	PASS

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

Test Graphs

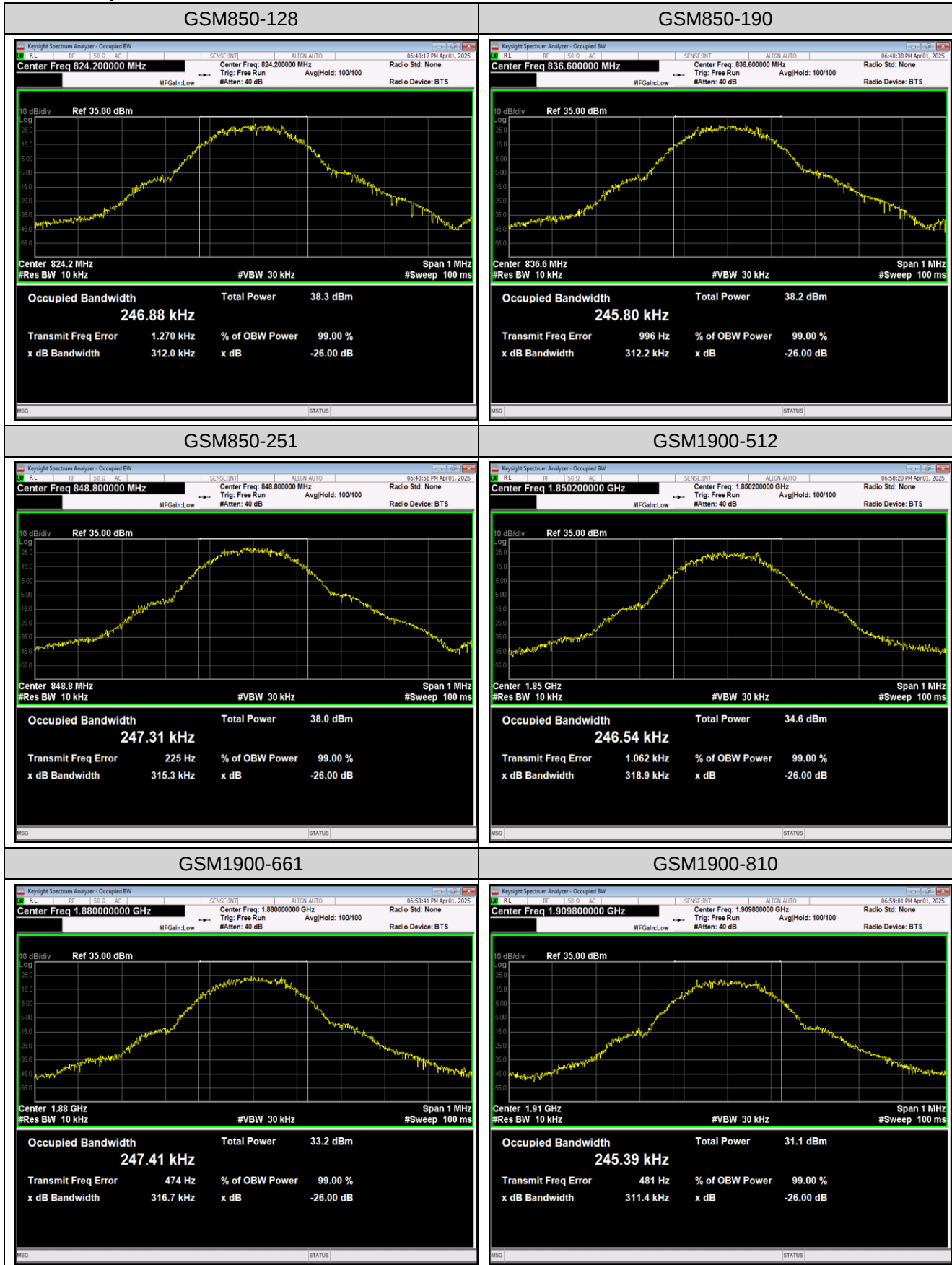


Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	5	0.24688	0.3120	---	PASS
GSM850	190	5	0.24580	0.3122	---	PASS
GSM850	251	5	0.24731	0.3153	---	PASS
GSM1900	512	0	0.24654	0.3189	---	PASS
GSM1900	661	0	0.24741	0.3167	---	PASS
GSM1900	810	0	0.24539	0.3114	---	PASS

Test Graphs

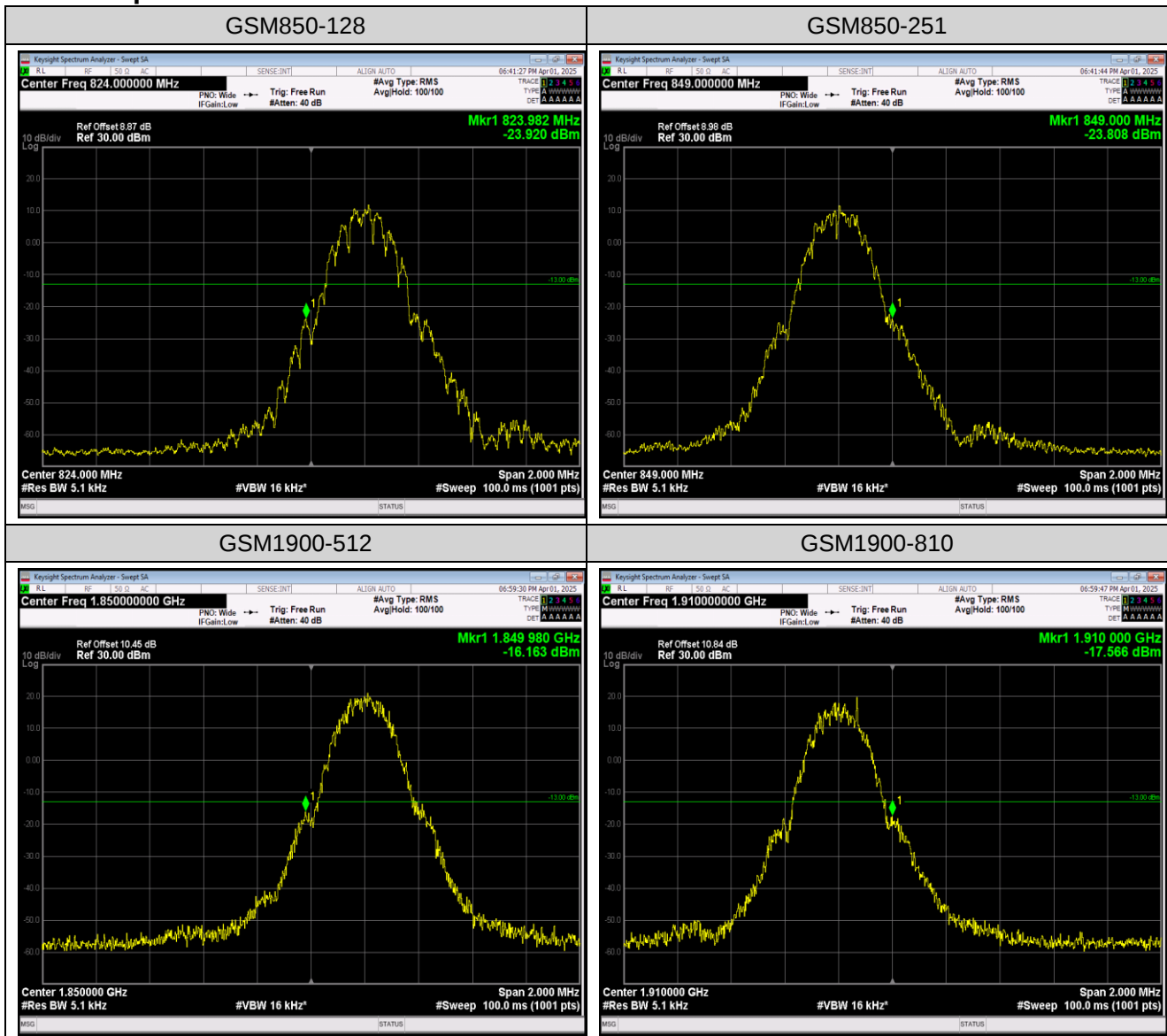


Appendix D: Band Edge

Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	5	823.98	-23.92	-13	PASS
GSM850	251	5	849.00	-23.81	-13	PASS
GSM1900	512	0	1849.98	-16.16	-13	PASS
GSM1900	810	0	1910.00	-17.57	-13	PASS

Test Graphs



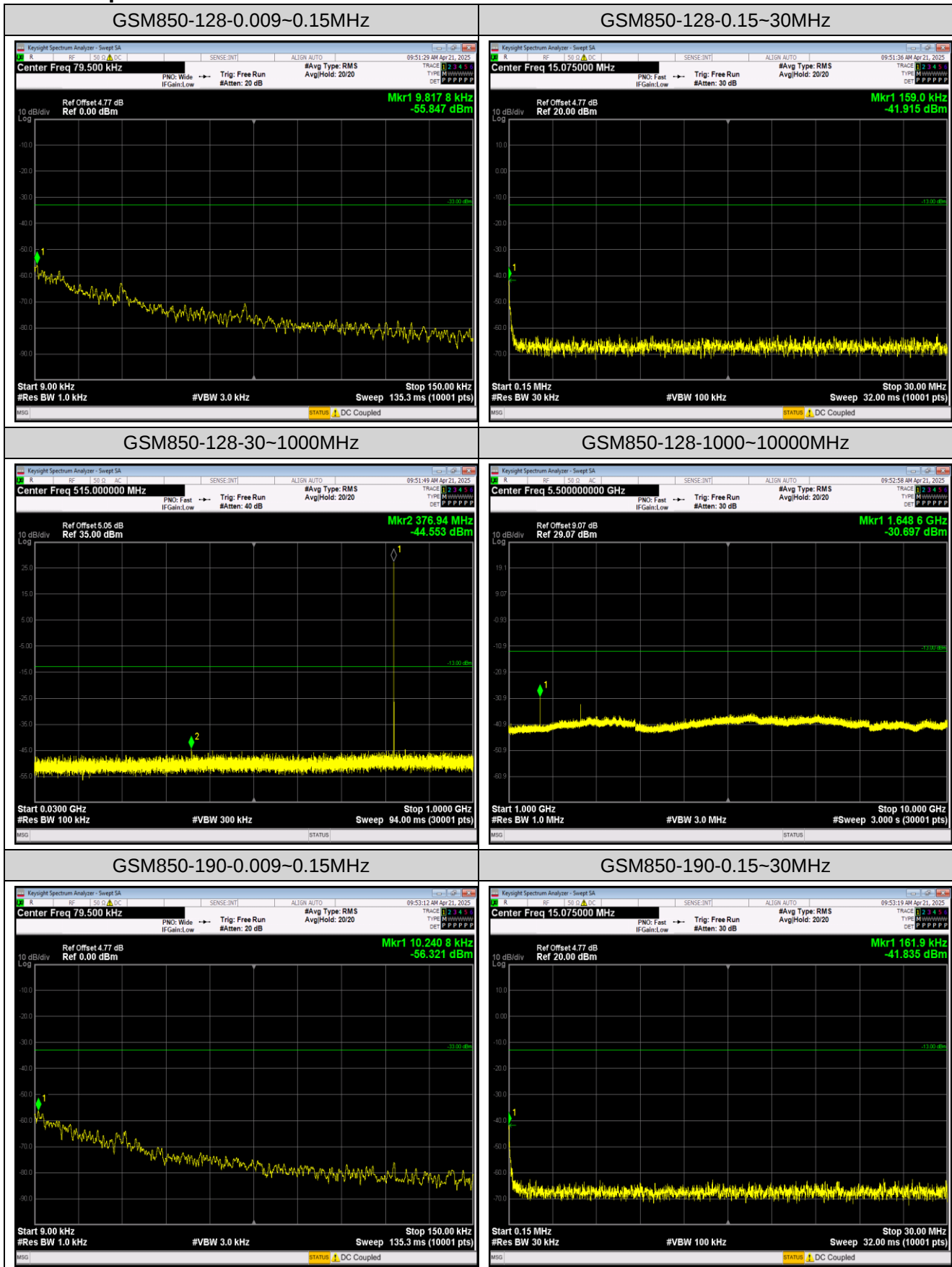
Appendix E: Conducted Spurious Emission

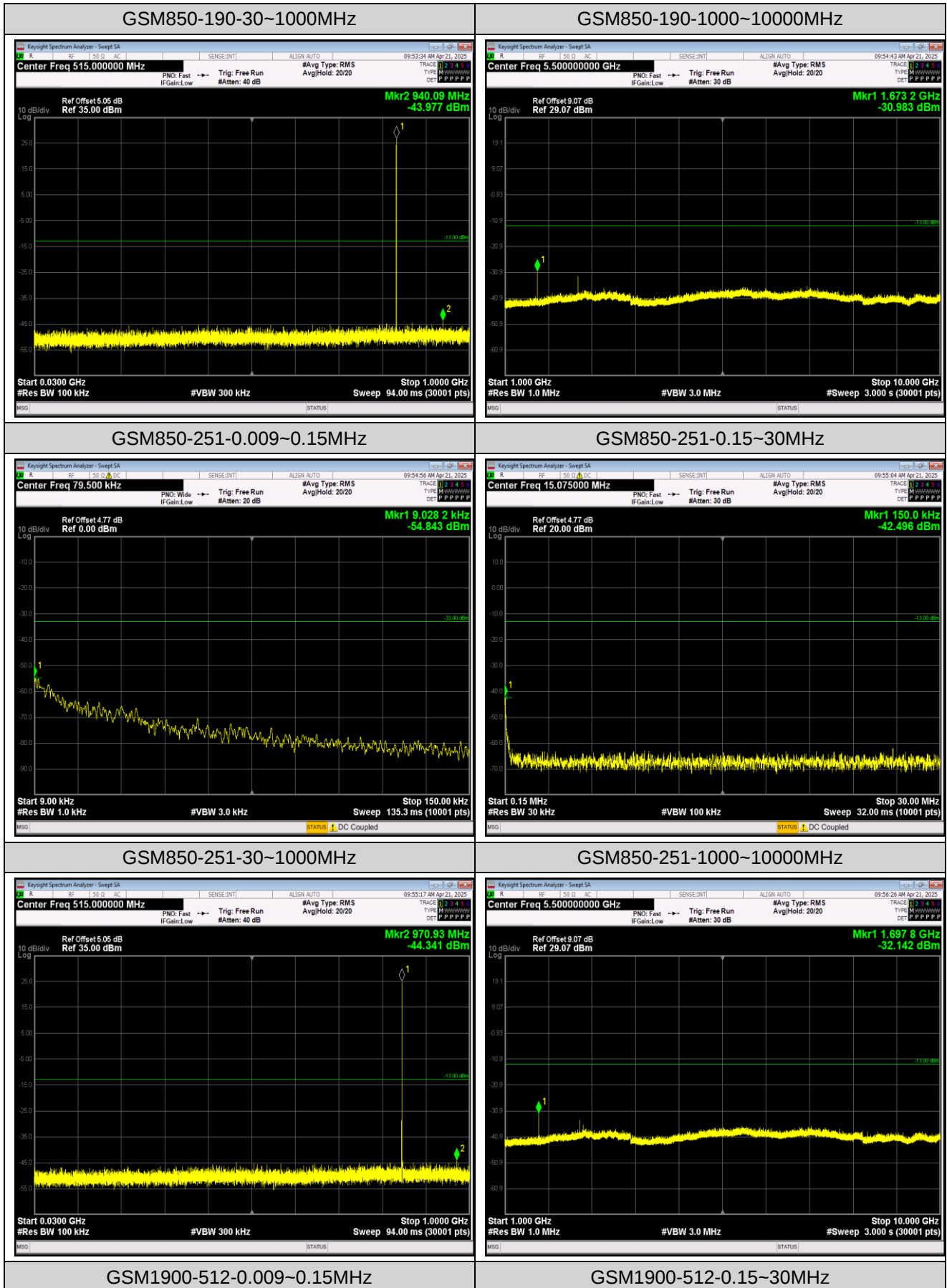
Test Result

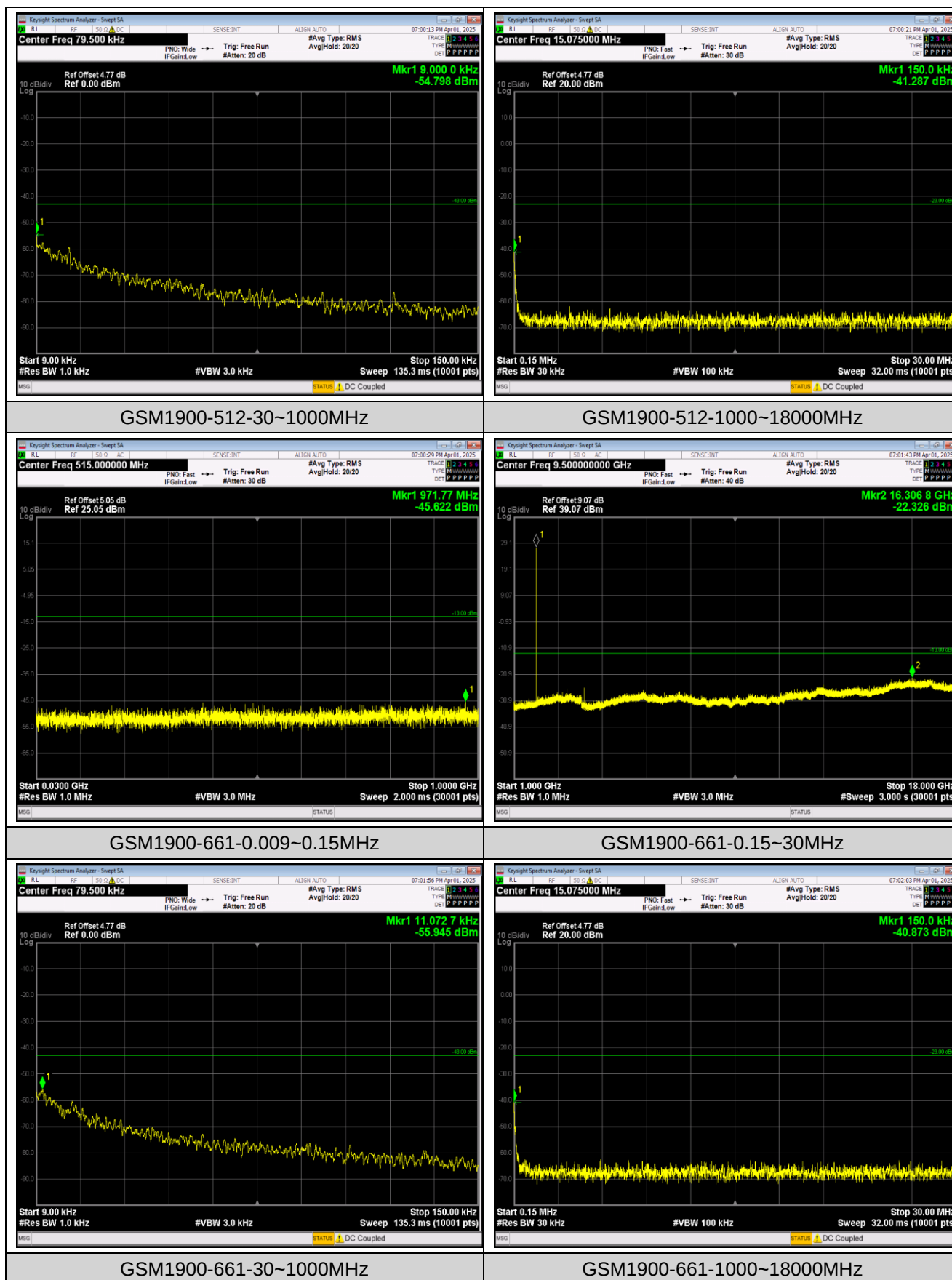
Band	Channel	PCL	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	5	0.009~0.15MHz	0.01	-55.85	-33	PASS
GSM850	128	5	0.15~30MHz	0.16	-41.92	-13	PASS
GSM850	128	5	30~1000MHz	376.94	-44.55	-13	PASS
GSM850	128	5	1000~10000MHz	1648.6	-30.7	-13	PASS
GSM850	190	5	0.009~0.15MHz	0.01	-56.32	-33	PASS
GSM850	190	5	0.15~30MHz	0.16	-41.84	-13	PASS
GSM850	190	5	30~1000MHz	940.09	-43.98	-13	PASS
GSM850	190	5	1000~10000MHz	1673.2	-30.98	-13	PASS
GSM850	251	5	0.009~0.15MHz	0.01	-54.84	-33	PASS
GSM850	251	5	0.15~30MHz	0.15	-42.5	-13	PASS
GSM850	251	5	30~1000MHz	970.93	-44.34	-13	PASS
GSM850	251	5	1000~10000MHz	1697.8	-32.14	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-54.8	-43	PASS
GSM1900	512	0	0.15~30MHz	0.15	-41.29	-23	PASS
GSM1900	512	0	30~1000MHz	971.77	-45.62	-13	PASS
GSM1900	512	0	1000~18000MHz	16306.8	-22.33	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-55.95	-43	PASS
GSM1900	661	0	0.15~30MHz	0.15	-40.87	-23	PASS
GSM1900	661	0	30~1000MHz	988.85	-45.67	-13	PASS
GSM1900	661	0	1000~18000MHz	16812.27	-22.29	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-54.01	-43	PASS
GSM1900	810	0	0.15~30MHz	0.16	-44.55	-23	PASS
GSM1900	810	0	30~1000MHz	876.03	-45.15	-13	PASS
GSM1900	810	0	1000~18000MHz	16599.77	-22.11	-13	PASS

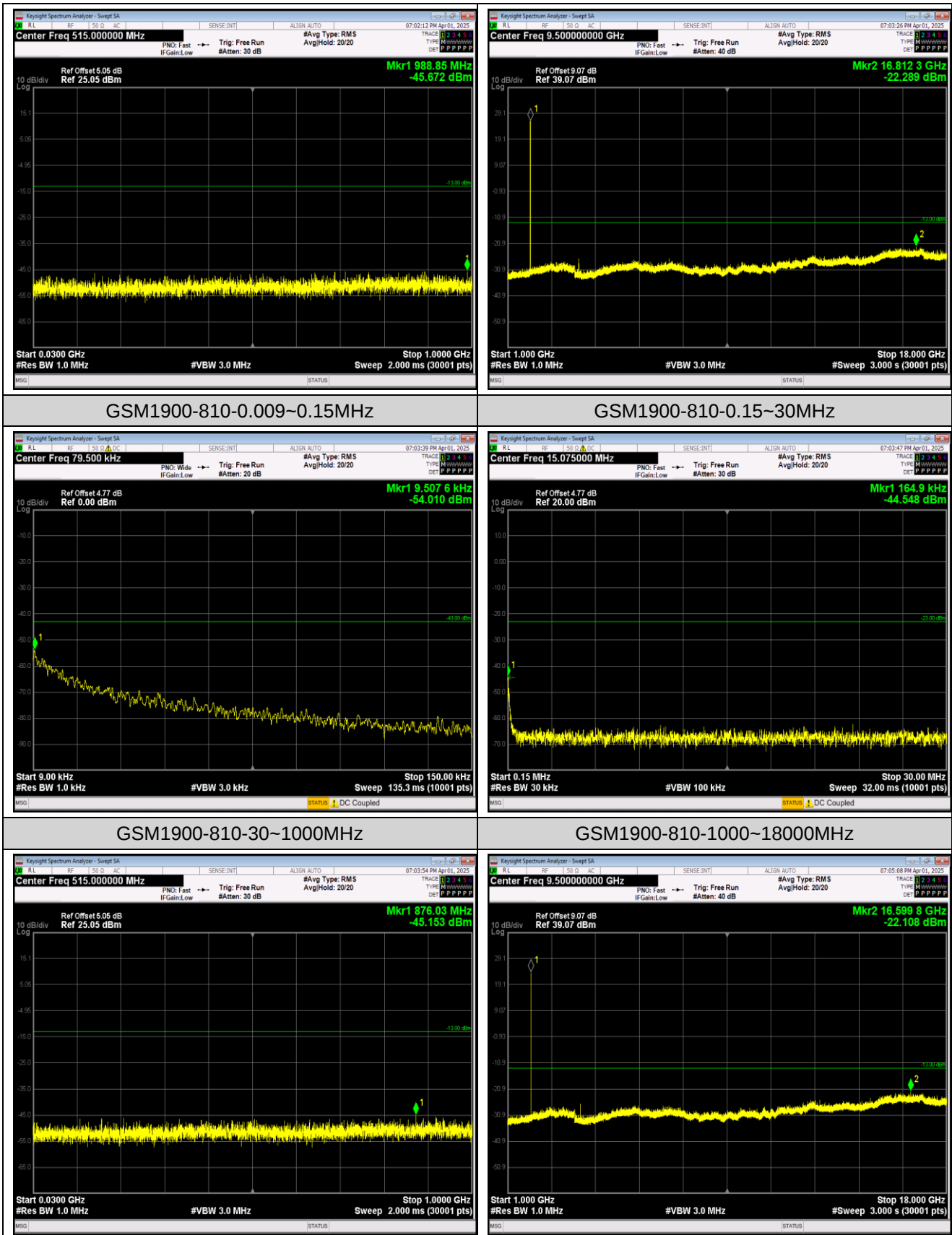
Remark: All channel and all modulation had been tested, but only the worst case data displayed in this report.

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	-24.86	-0.029716	±2.5	Pass
	-20	-21.53	-0.025735		
	-10	-22.60	-0.027014		
	0	-21.63	-0.025855		
	10	-20.40	-0.024384		
	20	-20.92	-0.025006		
	30	-22.41	-0.026787		
	40	-19.92	-0.023811		
	50	-19.11	-0.022842		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	-20.44	-0.024432	±2.5	Pass
	3.70	-21.95	-0.026237		
	4.20	-19.50	-0.023309		
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		
3.70	-30	-48.53	-0.025814	Within authorized band for PCS 1900	Pass
	-20	-50.17	-0.026686		
	-10	-50.27	-0.026739		
	0	-50.62	-0.026926		
	10	-49.24	-0.026191		
	20	-47.78	-0.025415		
	30	-59.44	-0.031617		
	40	-47.56	-0.025298		
	50	-55.47	-0.029505		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	-45.88	-0.024404	Within authorized band for PCS 1900	Pass
	3.70	-51.53	-0.027410		
	4.20	-51.37	-0.027324		
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

