

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	32.86	29.17	38.45	PASS
GSM850	190	5	32.91	29.22	38.45	PASS
GSM850	251	5	32.65	28.96	38.45	PASS
GSM1900	512	0	29.90	29.54	33.00	PASS
GSM1900	661	0	29.97	29.61	33.00	PASS
GSM1900	810	0	29.79	29.43	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	5	1	32.88	29.19	38.45	PASS
GPRS850	128	5	2	30.74	27.05	38.45	PASS
GPRS850	128	5	3	28.74	25.05	38.45	PASS
GPRS850	128	5	4	26.55	22.86	38.45	PASS
GPRS850	190	5	1	32.92	29.23	38.45	PASS
GPRS850	190	5	2	30.80	27.11	38.45	PASS
GPRS850	190	5	3	28.82	25.13	38.45	PASS
GPRS850	190	5	4	26.64	22.95	38.45	PASS
GPRS850	251	5	1	32.67	28.98	38.45	PASS
GPRS850	251	5	2	30.56	26.87	38.45	PASS
GPRS850	251	5	3	28.59	24.9	38.45	PASS
GPRS850	251	5	4	26.45	22.76	38.45	PASS
GPRS1900	512	0	1	29.90	29.54	33.00	PASS
GPRS1900	512	0	2	27.63	27.27	33.00	PASS
GPRS1900	512	0	3	26.06	25.7	33.00	PASS
GPRS1900	512	0	4	24.04	23.68	33.00	PASS
GPRS1900	661	0	1	29.97	29.61	33.00	PASS
GPRS1900	661	0	2	27.66	27.3	33.00	PASS
GPRS1900	661	0	3	26.08	25.72	33.00	PASS
GPRS1900	661	0	4	24.05	23.69	33.00	PASS
GPRS1900	810	0	1	29.80	29.44	33.00	PASS
GPRS1900	810	0	2	27.42	27.06	33.00	PASS
GPRS1900	810	0	3	25.80	25.44	33.00	PASS
GPRS1900	810	0	4	23.75	23.39	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	3.11	13	PASS
GSM1900	661	0	2.83	13	PASS

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

Test Graphs

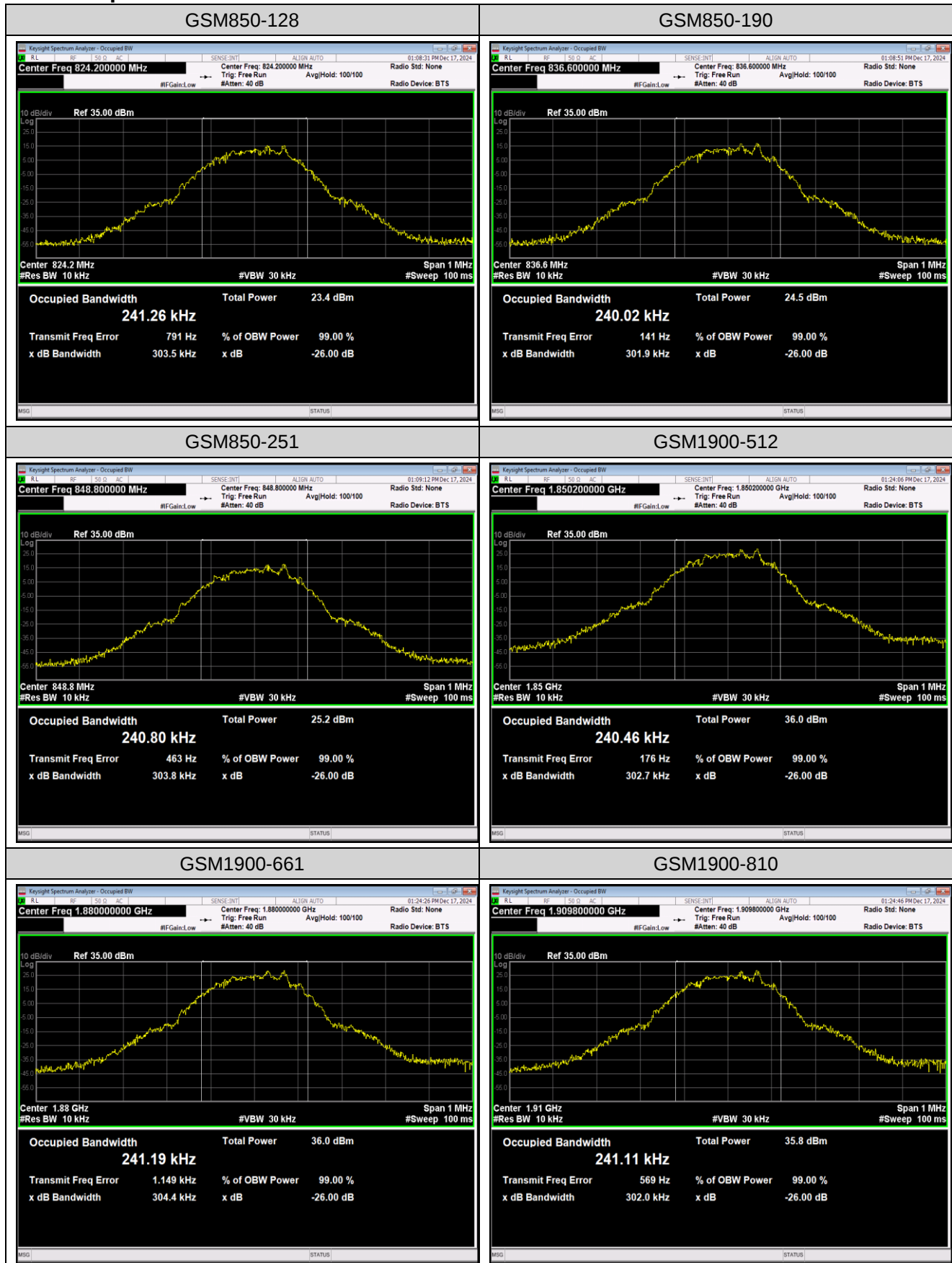


Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	5	0.24126	0.3035	---	PASS
GSM850	190	5	0.24002	0.3019	---	PASS
GSM850	251	5	0.24080	0.3038	---	PASS
GSM1900	512	0	0.24046	0.3027	---	PASS
GSM1900	661	0	0.24119	0.3044	---	PASS
GSM1900	810	0	0.24111	0.3020	---	PASS

Test Graphs

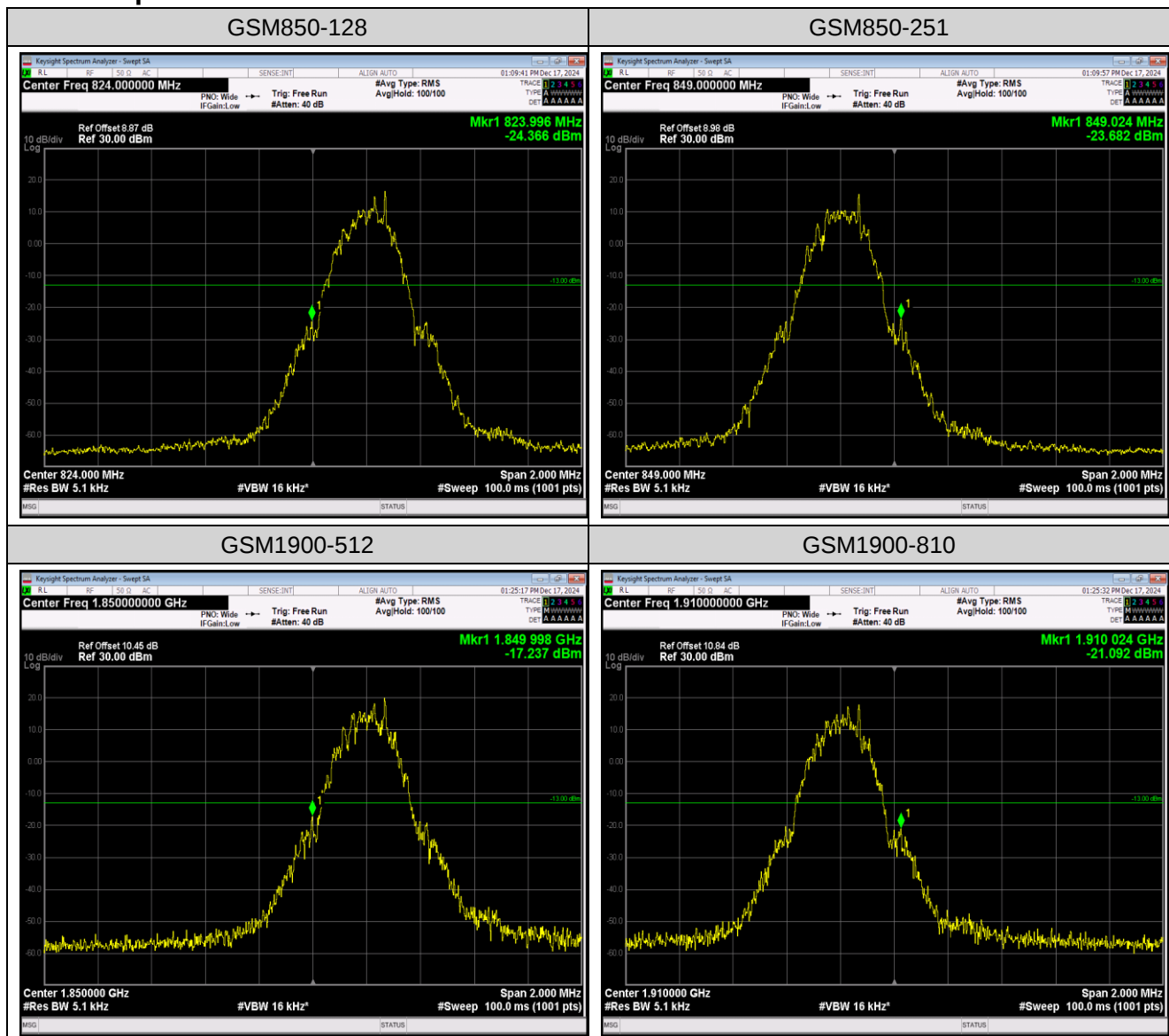


Appendix D: Band Edge

Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	5	824.00	-24.37	-13	PASS
GSM850	251	5	849.02	-23.68	-13	PASS
GSM1900	512	0	1850.00	-17.24	-13	PASS
GSM1900	810	0	1910.02	-21.09	-13	PASS

Test Graphs



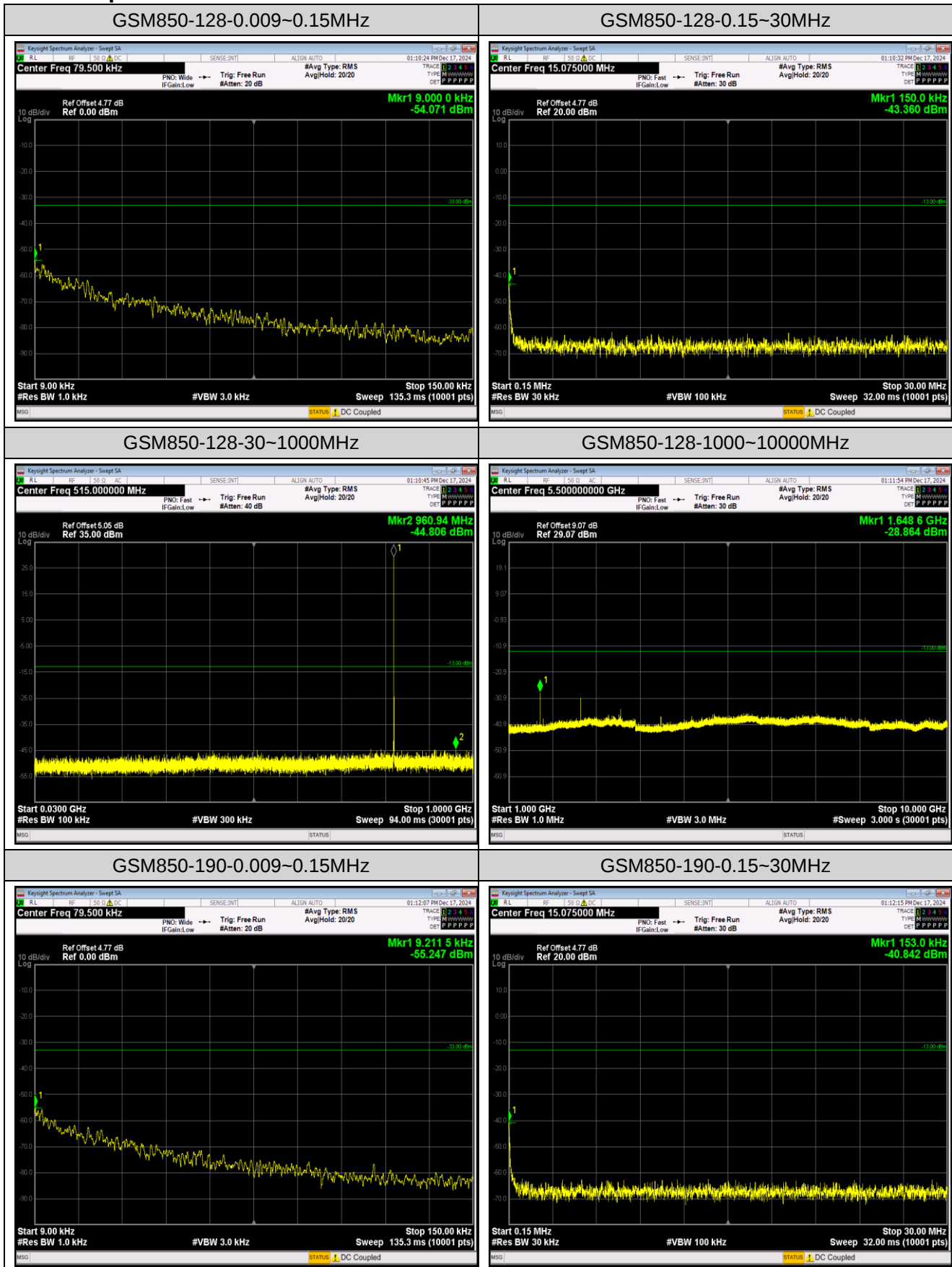
Appendix E: Conducted Spurious Emission

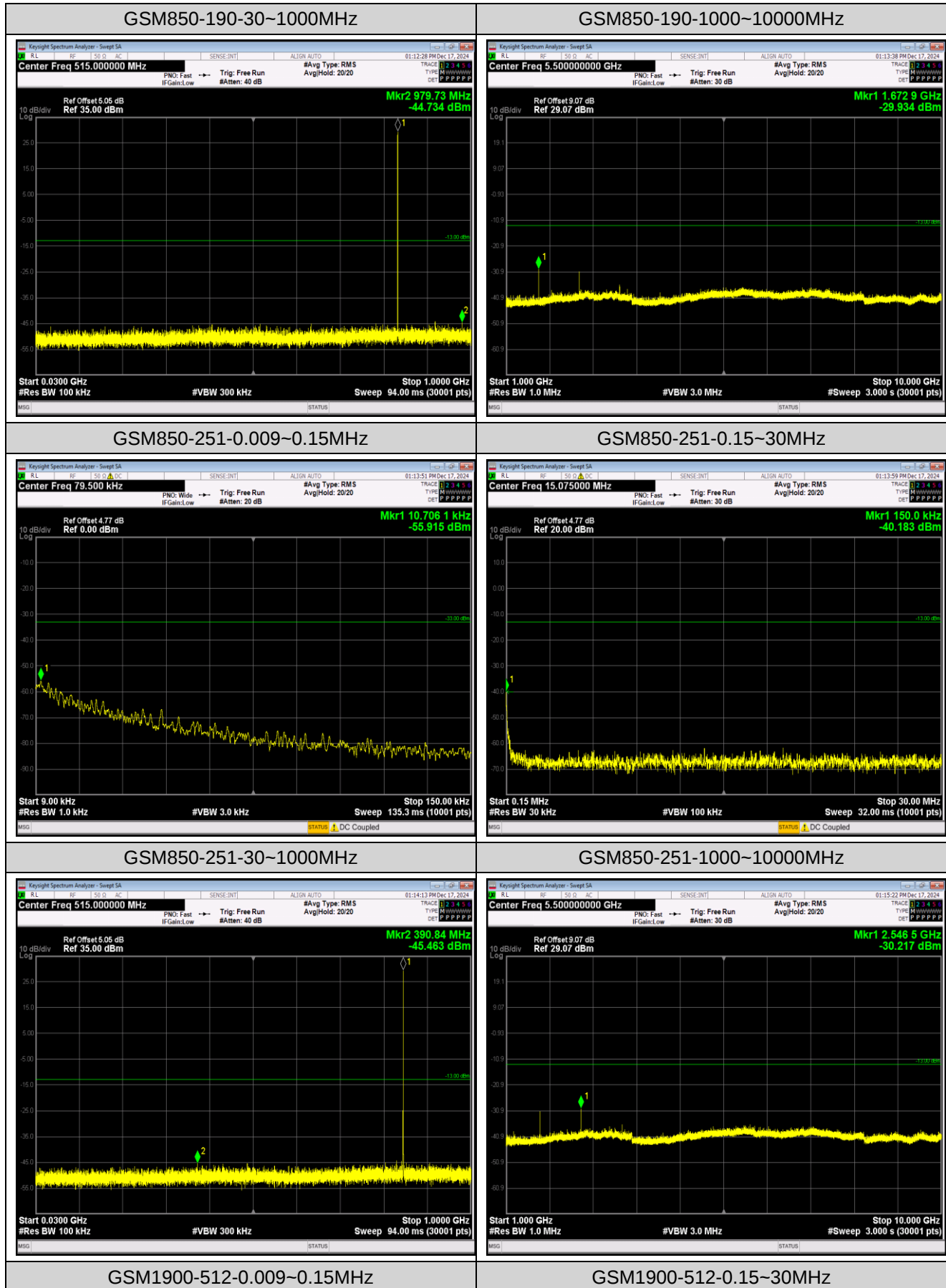
Test Result

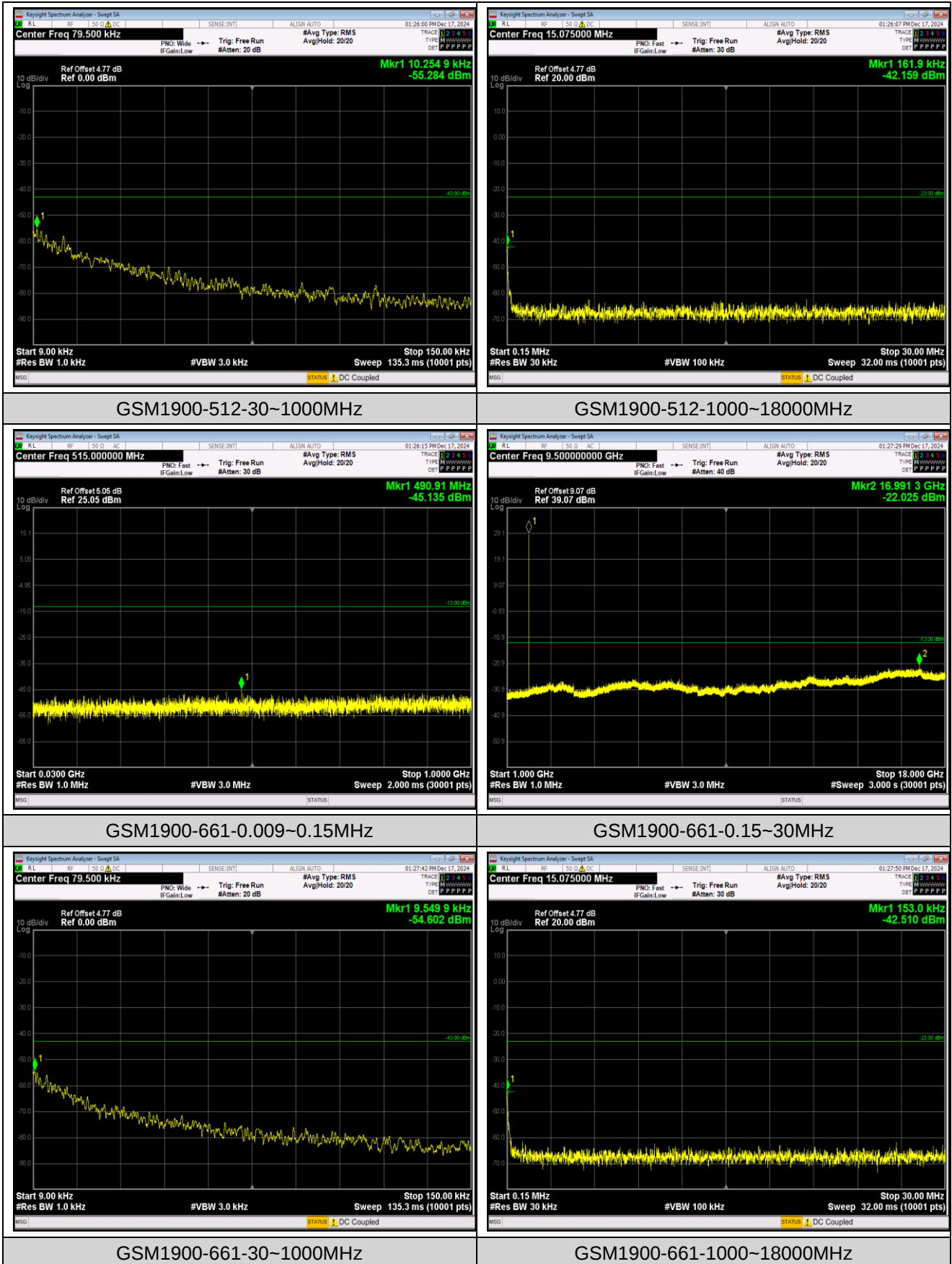
Band	Channel	PCL	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	5	0.009~0.15MHz	0.01	-54.07	-33	PASS
GSM850	128	5	0.15~30MHz	0.15	-43.36	-13	PASS
GSM850	128	5	30~1000MHz	960.94	-44.81	-13	PASS
GSM850	128	5	1000~10000MHz	1648.6	-28.86	-13	PASS
GSM850	190	5	0.009~0.15MHz	0.01	-55.25	-33	PASS
GSM850	190	5	0.15~30MHz	0.15	-40.84	-13	PASS
GSM850	190	5	30~1000MHz	979.73	-44.73	-13	PASS
GSM850	190	5	1000~10000MHz	1672.9	-29.93	-13	PASS
GSM850	251	5	0.009~0.15MHz	0.01	-55.92	-33	PASS
GSM850	251	5	0.15~30MHz	0.15	-40.18	-13	PASS
GSM850	251	5	30~1000MHz	390.84	-45.46	-13	PASS
GSM850	251	5	1000~10000MHz	2546.5	-30.22	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-55.28	-43	PASS
GSM1900	512	0	0.15~30MHz	0.16	-42.16	-23	PASS
GSM1900	512	0	30~1000MHz	490.91	-45.14	-13	PASS
GSM1900	512	0	1000~18000MHz	16991.33	-22.03	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-54.6	-43	PASS
GSM1900	661	0	0.15~30MHz	0.15	-42.51	-23	PASS
GSM1900	661	0	30~1000MHz	858.02	-44.94	-13	PASS
GSM1900	661	0	1000~18000MHz	16188.37	-22.26	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-55.01	-43	PASS
GSM1900	810	0	0.15~30MHz	0.16	-41.57	-23	PASS
GSM1900	810	0	30~1000MHz	549.11	-45.35	-13	PASS
GSM1900	810	0	1000~18000MHz	16693.83	-21.8	-13	PASS

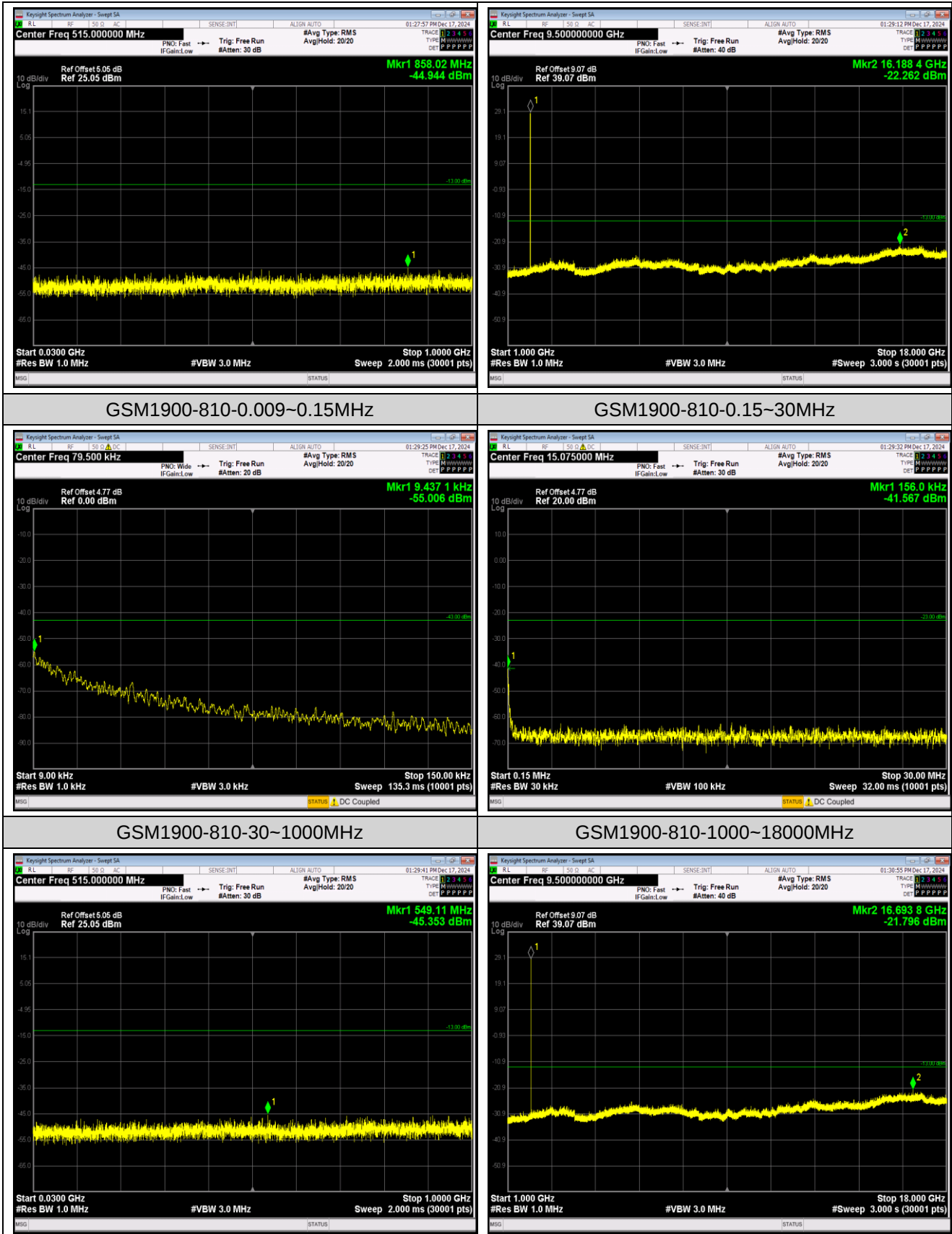
Remark: All channel and all modulation had been tested, but only the worst case data displayed in this report.

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	1.00	0.001195	±2.5	Pass
	-20	-0.06	-0.000072		
	-10	5.07	0.006060		
	0	3.00	0.003586		
	10	2.13	0.002546		
	20	4.97	0.005941		
	30	3.29	0.003933		
	40	3.36	0.004016		
	50	3.71	0.004435		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	5.04	0.006024	±2.5	Pass
	3.70	13.33	0.015934		
	4.20	4.71	0.005630		
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	12.91	0.006867	Within authorized band for PCS 1900	Pass
	-20	15.21	0.008090		
	-10	12.82	0.006819		
	0	5.42	0.002883		
	10	-3.16	-0.001681		
	20	1.23	0.000654		
	30	-5.97	-0.003176		
	40	0.55	0.000293		
	50	3.20	0.001702		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	10.01	0.005324	Within authorized band for PCS 1900	Pass
	3.70	7.33	0.003899		
	4.20	8.78	0.004670		
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

