

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	3	33.13	28.21	38.5	PASS
GSM850	190	3	33.03	28.25	38.5	PASS
GSM850	251	3	32.93	28.15	38.5	PASS
GSM1900	512	0	30.09	26.43	33	PASS
GSM1900	661	0	29.80	26.14	33	PASS
GSM1900	810	0	29.89	26.23	33	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	3	1	33.00	28.08	38.5	PASS
GPRS850	128	3	2	31.15	26.23	38.5	PASS
GPRS850	128	3	3	29.50	24.58	38.5	PASS
GPRS850	128	3	4	27.60	22.68	38.5	PASS
GPRS850	190	3	1	32.77	27.99	38.5	PASS
GPRS850	190	3	2	31.04	26.26	38.5	PASS
GPRS850	190	3	3	29.39	24.61	38.5	PASS
GPRS850	190	3	4	27.39	22.61	38.5	PASS
GPRS850	251	3	1	32.65	27.87	38.5	PASS
GPRS850	251	3	2	31.07	26.29	38.5	PASS
GPRS850	251	3	3	29.48	24.7	38.5	PASS
GPRS850	251	3	4	27.51	22.73	38.5	PASS
GPRS1900	512	0	1	30.32	26.66	33	PASS
GPRS1900	512	0	2	28.55	24.89	33	PASS
GPRS1900	512	0	3	27.08	23.42	33	PASS
GPRS1900	512	0	4	25.00	21.34	33	PASS
GPRS1900	661	0	1	29.97	26.31	33	PASS
GPRS1900	661	0	2	28.18	24.52	33	PASS
GPRS1900	661	0	3	26.63	22.97	33	PASS
GPRS1900	661	0	4	24.59	20.93	33	PASS
GPRS1900	810	0	1	30.03	26.37	33	PASS
GPRS1900	810	0	2	28.02	24.36	33	PASS
GPRS1900	810	0	3	26.49	22.83	33	PASS
GPRS1900	810	0	4	24.36	20.7	33	PASS

Remark: EIRP (dBm) = Conducted power (dBm) + Antenna Gain (dBi). (For GSM1900)

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

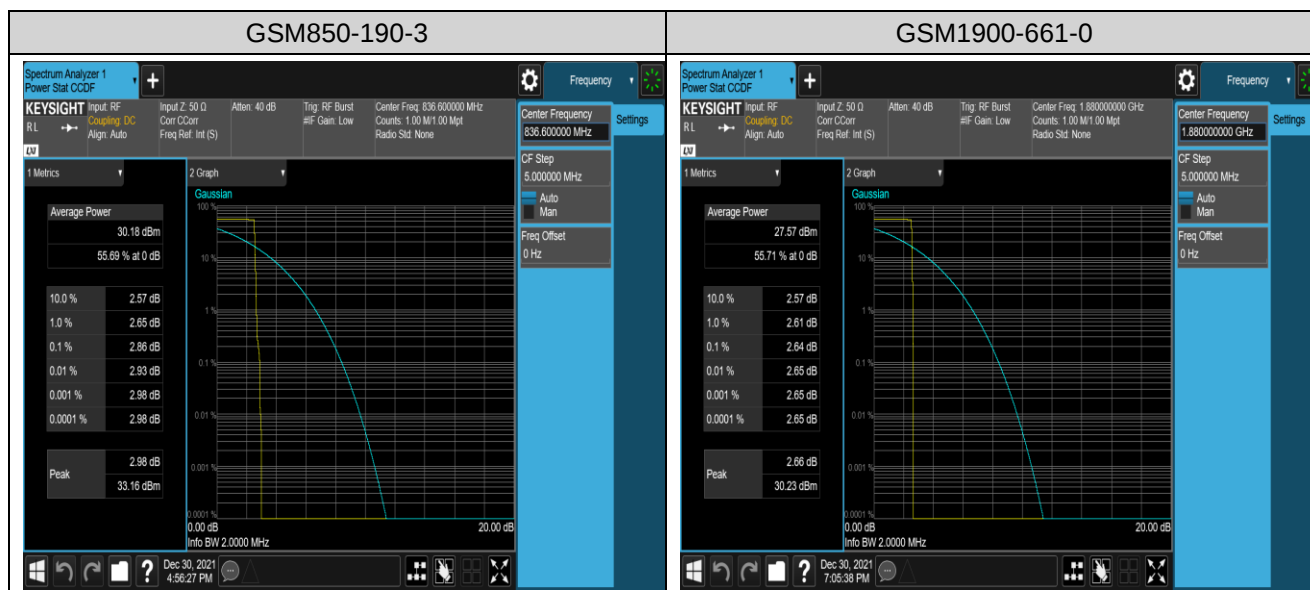
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	PCL	Result(dB)	Limit(dB)	Verdict
GSM850	190	3	2.86	13	PASS
GSM1900	661	0	2.64	13	PASS

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

Test Graphs

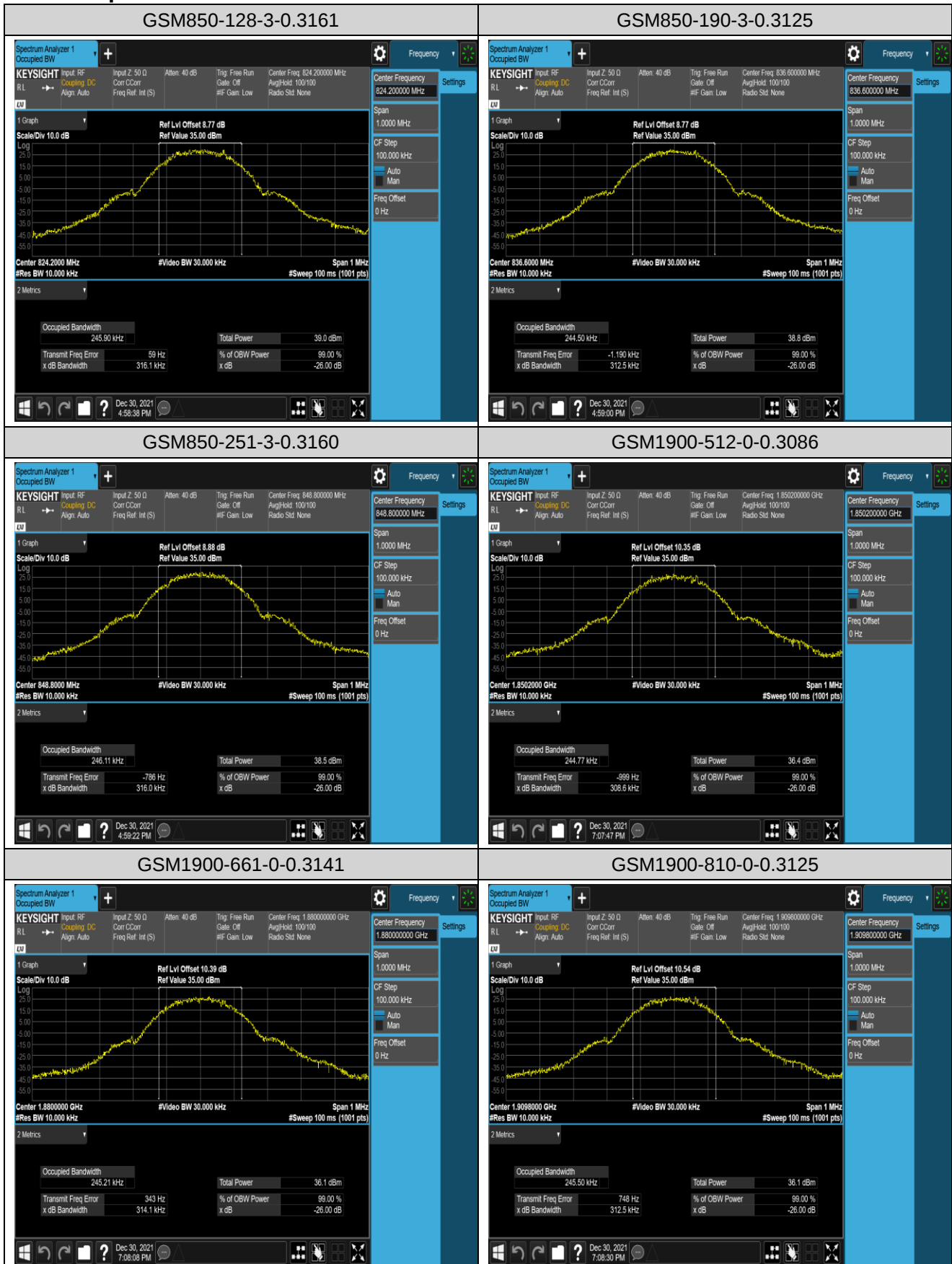


Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	3	0.24590	0.3161	---	PASS
GSM850	190	3	0.24450	0.3125	---	PASS
GSM850	251	3	0.24611	0.3160	---	PASS
GSM1900	512	0	0.24477	0.3086	---	PASS
GSM1900	661	0	0.24521	0.3141	---	PASS
GSM1900	810	0	0.24550	0.3125	---	PASS

Test Graphs

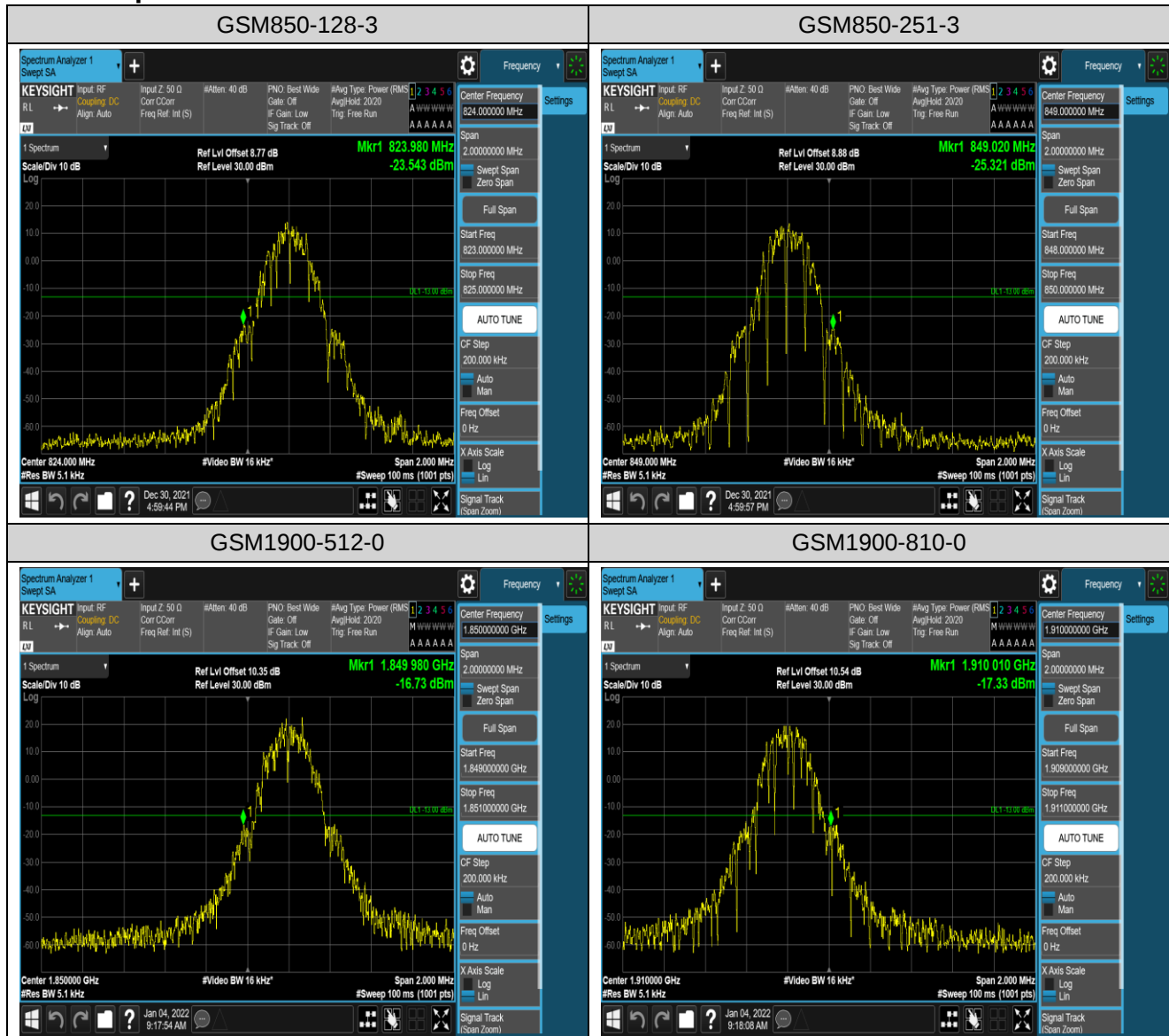


Appendix D: Band Edge

Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	3	823.98	-22.63	-13	PASS
GSM850	251	3	849.02	-22.49	-13	PASS
GSM1900	512	0	1849.98	-16.65	-13	PASS
GSM1900	810	0	1910.01	-16.36	-13	PASS

Test Graphs



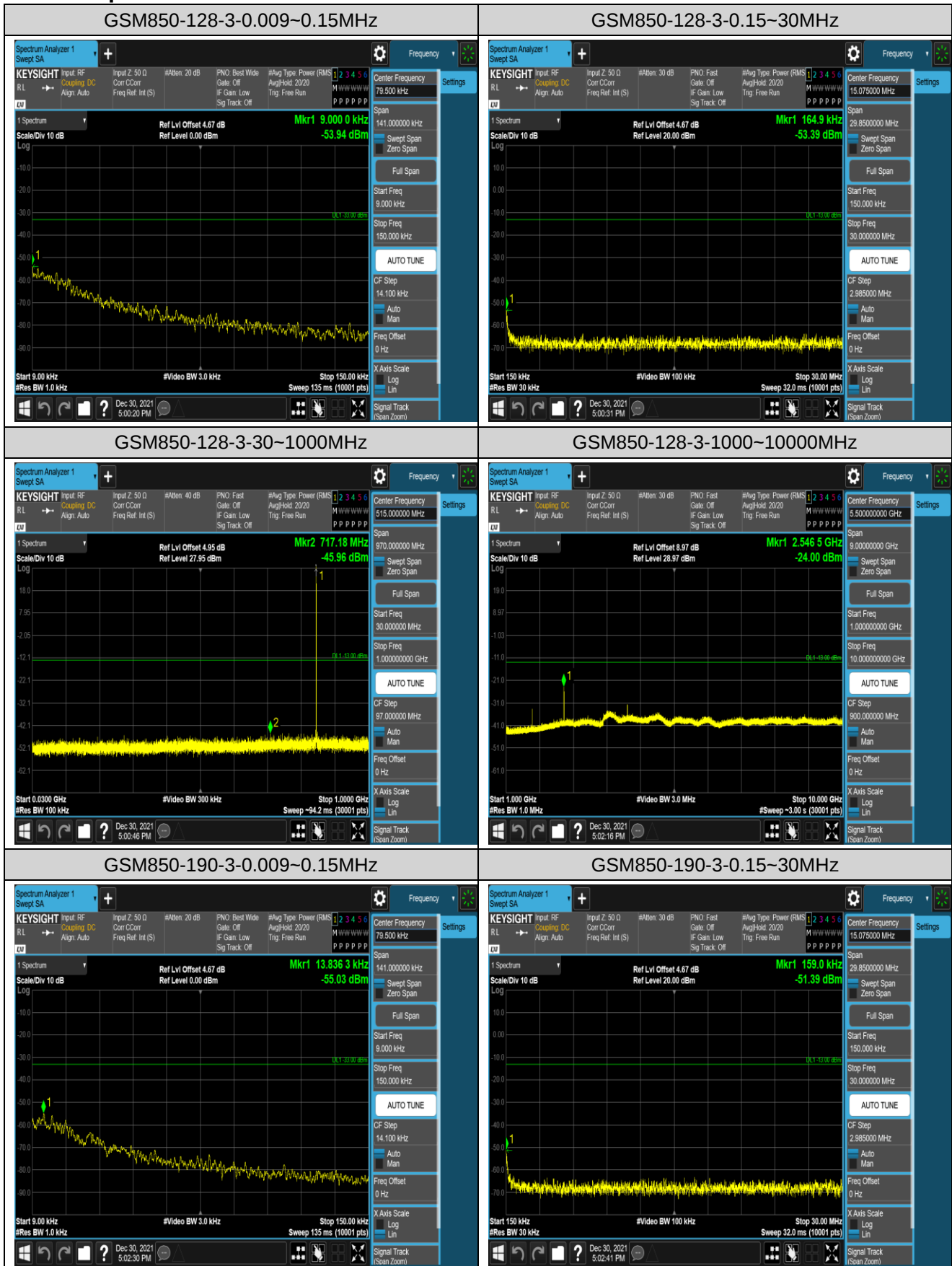
Appendix E: Conducted Spurious Emission

Test Result

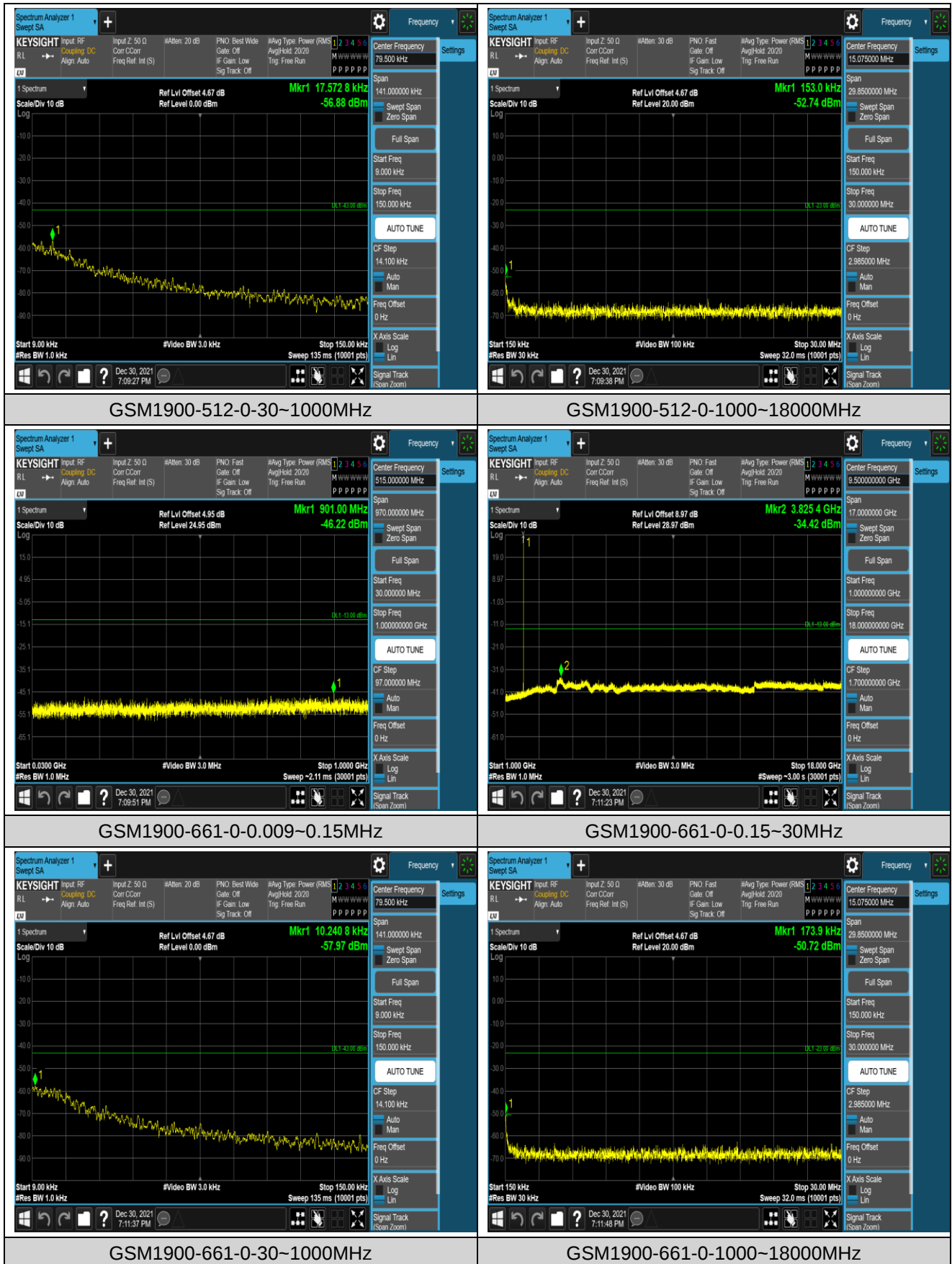
Band	Channel	PCL	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	3	0.009~0.15MHz	0.01	-53.94	-33	PASS
GSM850	128	3	0.15~30MHz	0.16	-53.39	-13	PASS
GSM850	128	3	30~1000MHz	717.18	-45.96	-13	PASS
GSM850	128	3	1000~10000MHz	2546.5	-24	-13	PASS
GSM850	190	3	0.009~0.15MHz	0.01	-55.03	-33	PASS
GSM850	190	3	0.15~30MHz	0.16	-51.39	-13	PASS
GSM850	190	3	30~1000MHz	952.31	-45.02	-13	PASS
GSM850	190	3	1000~10000MHz	2546.2	-23.9	-13	PASS
GSM850	251	3	0.009~0.15MHz	0.01	-56.28	-33	PASS
GSM850	251	3	0.15~30MHz	0.21	-54.54	-13	PASS
GSM850	251	3	30~1000MHz	645.47	-45.99	-13	PASS
GSM850	251	3	1000~10000MHz	2546.2	-24.14	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.02	-56.88	-43	PASS
GSM1900	512	0	0.15~30MHz	0.15	-52.74	-23	PASS
GSM1900	512	0	30~1000MHz	901	-46.22	-13	PASS
GSM1900	512	0	1000~18000MHz	3825.4	-34.42	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-57.97	-43	PASS
GSM1900	661	0	0.15~30MHz	0.17	-50.73	-23	PASS
GSM1900	661	0	30~1000MHz	912.99	-46.07	-13	PASS
GSM1900	661	0	1000~18000MHz	3874.13	-33.84	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-57.09	-43	PASS
GSM1900	810	0	0.15~30MHz	0.18	-53.28	-23	PASS
GSM1900	810	0	30~1000MHz	729.76	-46.08	-13	PASS
GSM1900	810	0	1000~18000MHz	3822.57	-34.45	-13	PASS

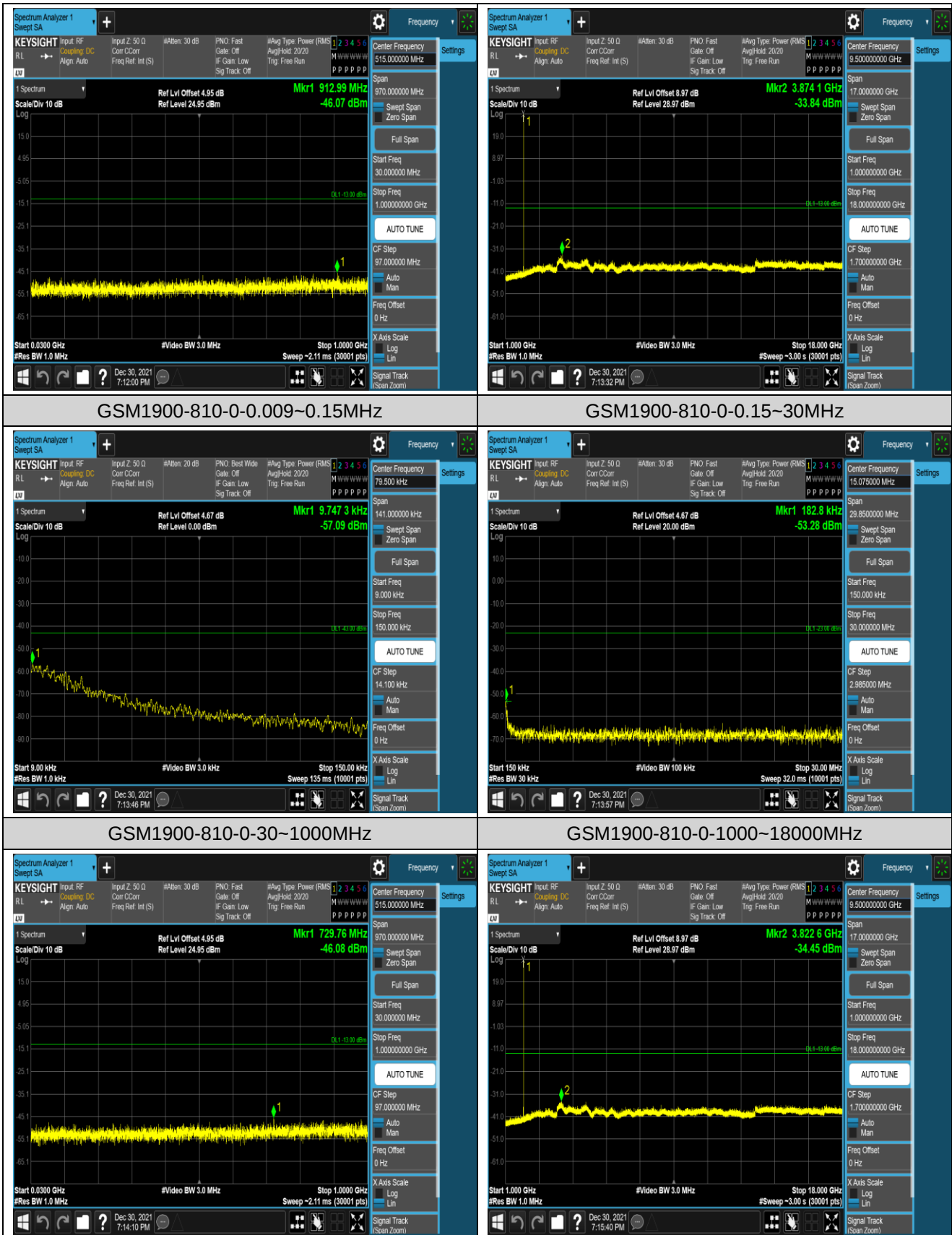
Remark: All channel and all modulation had been tested, but only the worst case data displayed in this report.

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		
3.85	-30	-4.29	-0.005128	±2.5	Pass
	-20	-4.84	-0.005785		
	-10	-5.00	-0.005977		
	0	-11.24	-0.013435		
	10	-7.26	-0.008678		
	20	-12.66	-0.015133		
	30	-15.63	-0.018683		
	40	-7.04	-0.008415		
	50	-4.62	-0.005522		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	-7.01	-0.008379	±2.5	Pass
	3.85	-5.94	-0.007100		
	4.40	-11.88	-0.014200		
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	-11.40	-0.006064	Within authorized band for PCS 1900	Pass
	-20	-13.20	-0.007021		
	-10	-9.69	-0.005154		
	0	-13.37	-0.007112		
	10	-15.08	-0.008021		
	20	-13.37	-0.007112		
	30	-6.20	-0.003298		
	40	-12.43	-0.006612		
	50	-20.05	-0.010665		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	-16.95	-0.009016	Within authorized band for PCS 1900	Pass
	3.85	-16.30	-0.008670		
	4.40	-13.11	-0.006973		
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

