

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	33.67	26.52	38.45	PASS
GSM850	190	5	33.72	26.57	38.45	PASS
GSM850	251	5	33.72	26.57	38.45	PASS
GSM1900	512	0	29.94	27.94	33.00	PASS
GSM1900	661	0	30.35	28.35	33.00	PASS
GSM1900	810	0	30.42	28.42	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	5	1	33.66	26.51	38.45	PASS
GPRS850	128	5	2	33.10	25.95	38.45	PASS
GPRS850	128	5	3	31.22	24.07	38.45	PASS
GPRS850	128	5	4	29.93	22.78	38.45	PASS
GPRS850	190	5	1	33.68	26.53	38.45	PASS
GPRS850	190	5	2	33.12	25.97	38.45	PASS
GPRS850	190	5	3	30.94	23.79	38.45	PASS
GPRS850	190	5	4	29.46	22.31	38.45	PASS
GPRS850	251	5	1	33.70	26.55	38.45	PASS
GPRS850	251	5	2	33.09	25.94	38.45	PASS
GPRS850	251	5	3	30.66	23.51	38.45	PASS
GPRS850	251	5	4	29.16	22.01	38.45	PASS
GPRS1900	512	0	1	29.87	27.87	33.00	PASS
GPRS1900	512	0	2	29.03	27.03	33.00	PASS
GPRS1900	512	0	3	26.99	24.99	33.00	PASS
GPRS1900	512	0	4	25.71	23.71	33.00	PASS
GPRS1900	661	0	1	30.27	28.27	33.00	PASS
GPRS1900	661	0	2	29.47	27.47	33.00	PASS
GPRS1900	661	0	3	27.37	25.37	33.00	PASS
GPRS1900	661	0	4	26.06	24.06	33.00	PASS
GPRS1900	810	0	1	30.34	28.34	33.00	PASS
GPRS1900	810	0	2	29.51	27.51	33.00	PASS
GPRS1900	810	0	3	27.35	25.35	33.00	PASS
GPRS1900	810	0	4	26.01	24.01	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	2.66	13	PASS
GSM1900	661	0	2.67	13	PASS

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

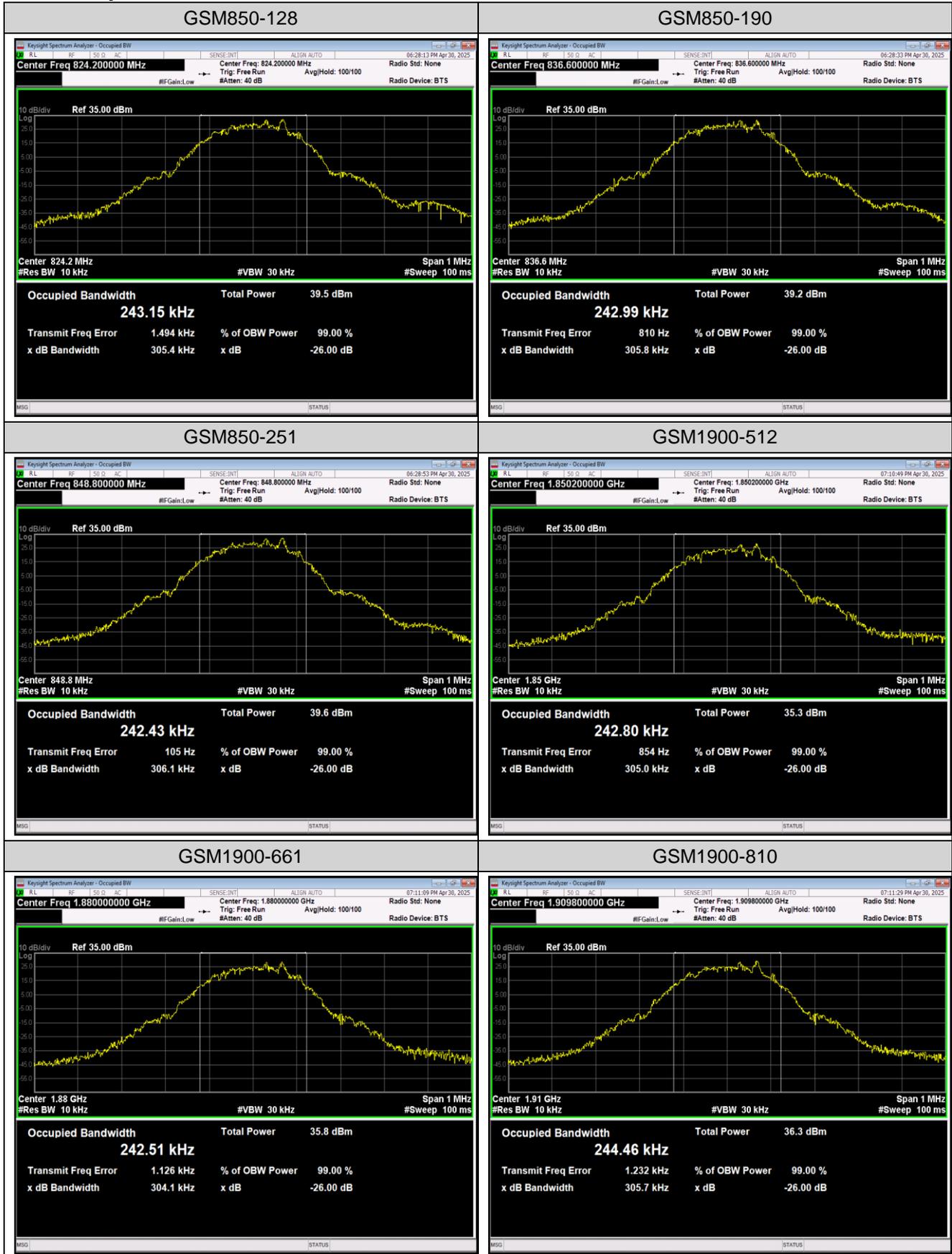
Test Graphs



Appendix C: 26dB Bandwidth and Occupied Bandwidth**Test Result**

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	5	0.24315	0.3054	---	PASS
GSM850	190	5	0.24299	0.3058	---	PASS
GSM850	251	5	0.24243	0.3061	---	PASS
GSM1900	512	0	0.24280	0.3050	---	PASS
GSM1900	661	0	0.24251	0.3041	---	PASS
GSM1900	810	0	0.24446	0.3057	---	PASS

Test Graphs

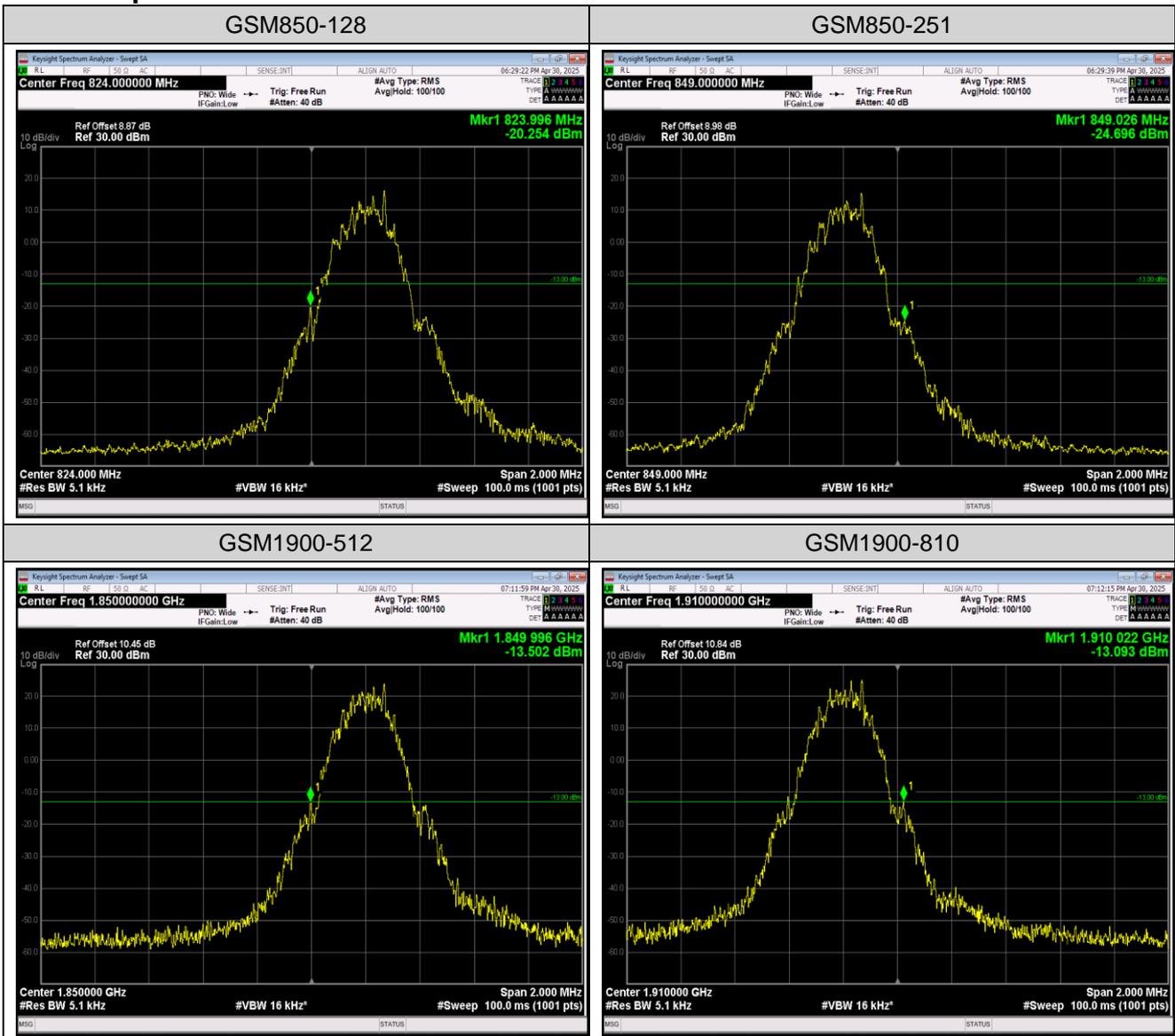


Appendix D: Band Edge

Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	5	824.00	-20.25	-13	PASS
GSM850	251	5	849.03	-24.70	-13	PASS
GSM1900	512	0	1850.00	-13.50	-13	PASS
GSM1900	810	0	1910.02	-13.09	-13	PASS

Test Graphs



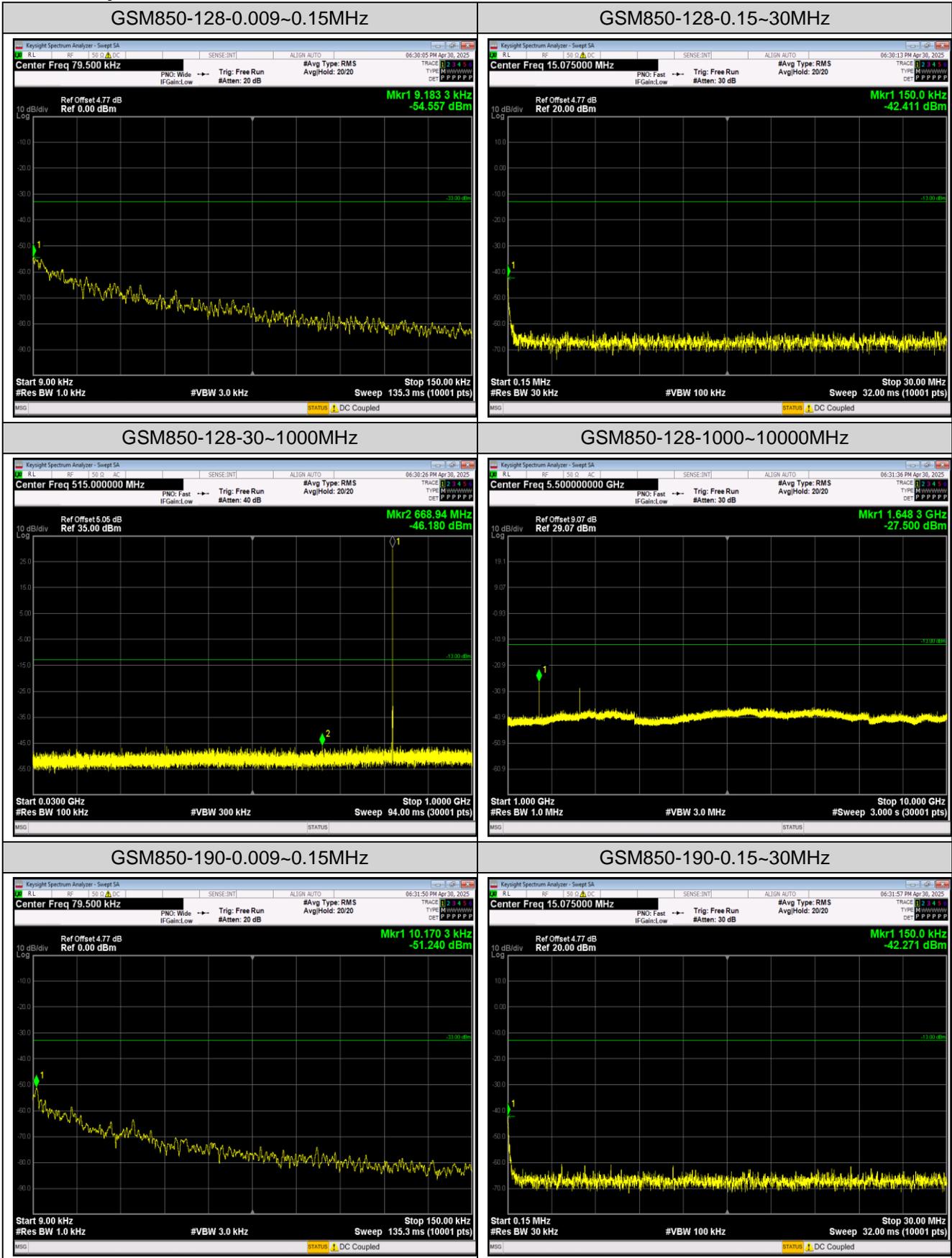
Appendix E: Conducted Spurious Emission

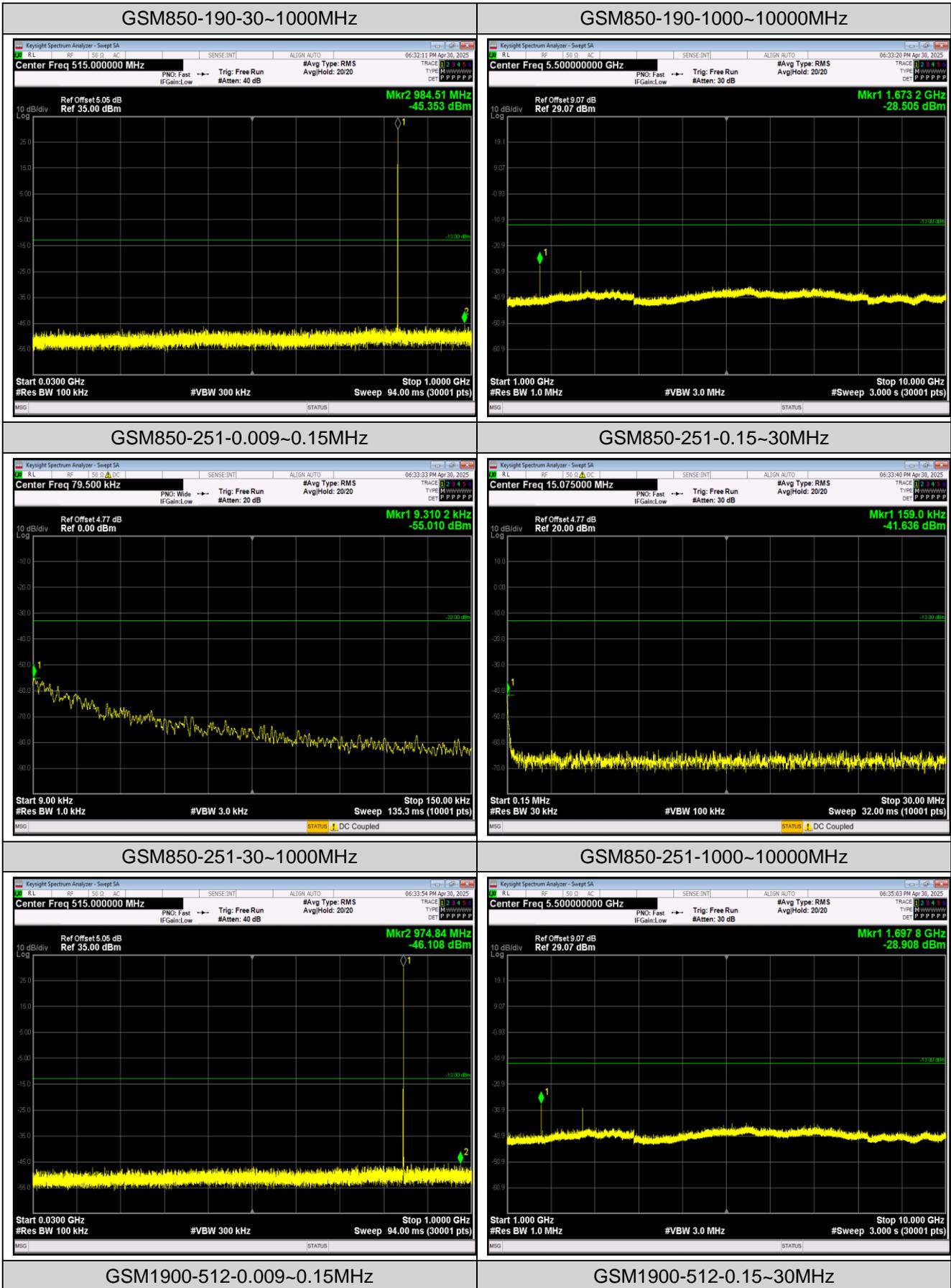
Test Result

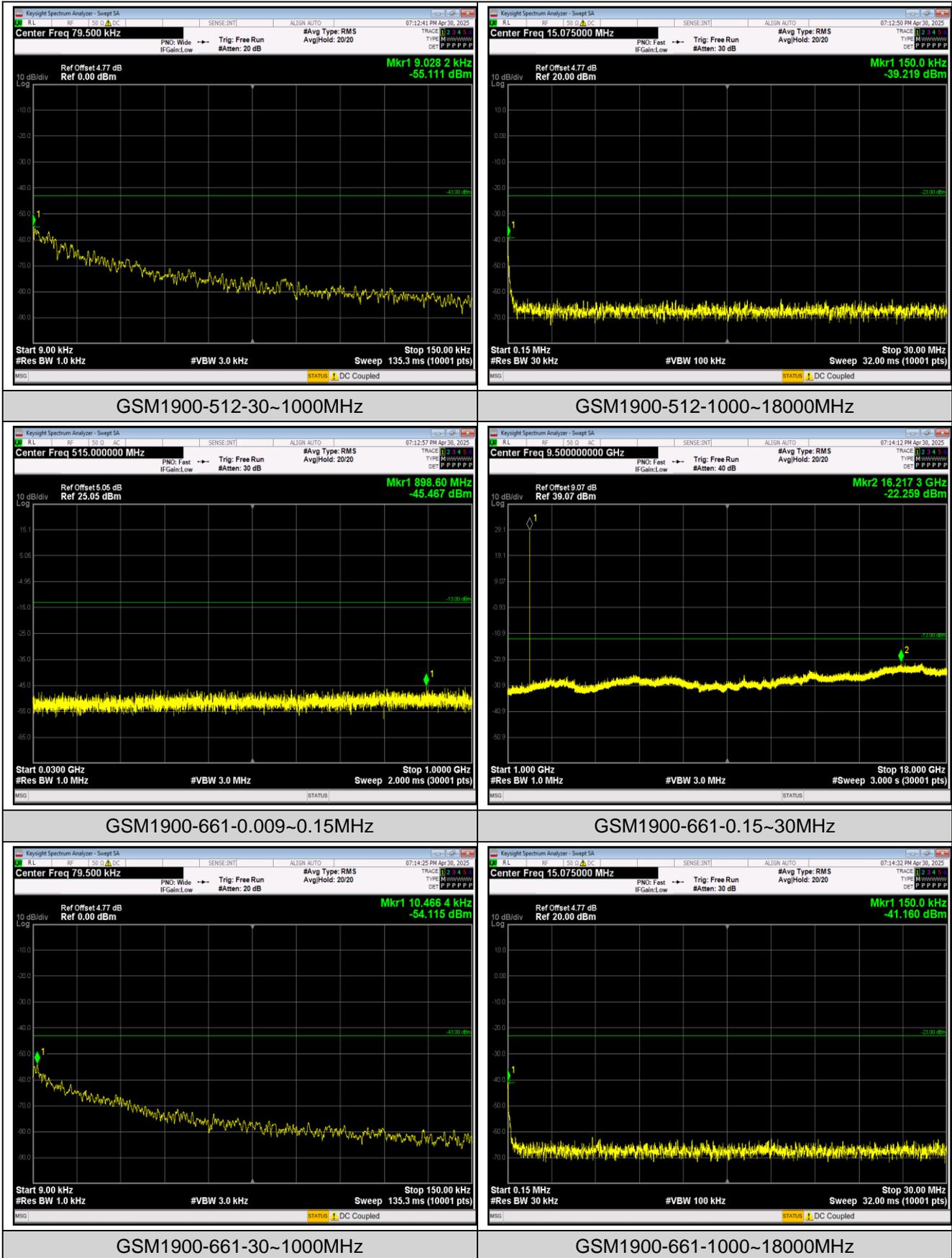
Band	Channel	PCL	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	5	0.009~0.15MHz	0.01	-54.56	-33	PASS
GSM850	128	5	0.15~30MHz	0.15	-42.41	-13	PASS
GSM850	128	5	30~1000MHz	668.94	-46.18	-13	PASS
GSM850	128	5	1000~10000MHz	1648.3	-27.5	-13	PASS
GSM850	190	5	0.009~0.15MHz	0.01	-51.24	-33	PASS
GSM850	190	5	0.15~30MHz	0.15	-42.27	-13	PASS
GSM850	190	5	30~1000MHz	984.51	-45.35	-13	PASS
GSM850	190	5	1000~10000MHz	1673.2	-28.51	-13	PASS
GSM850	251	5	0.009~0.15MHz	0.01	-55.01	-33	PASS
GSM850	251	5	0.15~30MHz	0.16	-41.64	-13	PASS
GSM850	251	5	30~1000MHz	974.84	-46.11	-13	PASS
GSM850	251	5	1000~10000MHz	1697.8	-28.91	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-55.11	-43	PASS
GSM1900	512	0	0.15~30MHz	0.15	-39.22	-23	PASS
GSM1900	512	0	30~1000MHz	898.6	-45.47	-13	PASS
GSM1900	512	0	1000~18000MHz	16217.27	-22.26	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-54.12	-43	PASS
GSM1900	661	0	0.15~30MHz	0.15	-41.16	-23	PASS
GSM1900	661	0	30~1000MHz	686.33	-45.6	-13	PASS
GSM1900	661	0	1000~18000MHz	16997	-22.13	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-54.78	-43	PASS
GSM1900	810	0	0.15~30MHz	0.15	-43.37	-23	PASS
GSM1900	810	0	30~1000MHz	515.1	-45.46	-13	PASS
GSM1900	810	0	1000~18000MHz	16915.4	-21.75	-13	PASS

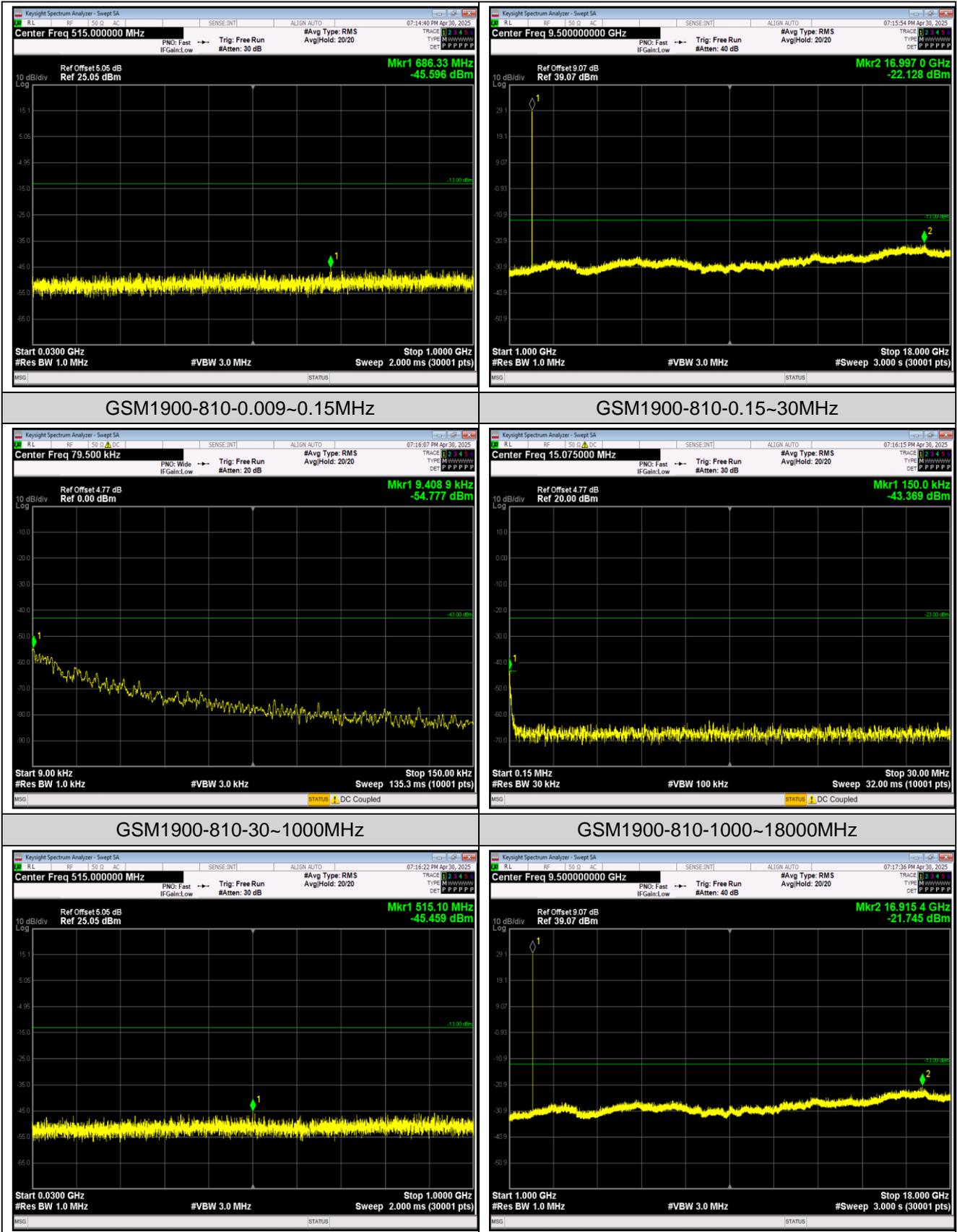
Remark: All channel and all modulation had been tested, but only the worst case data displayed in this report.

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		
3.91	-30	6.49	0.007758	±2.5	Pass
	-20	5.71	0.006825		
	-10	10.33	0.012348		
	0	14.17	0.016938		
	10	15.14	0.018097		
	20	7.81	0.009335		
	30	7.04	0.008415		
	40	10.82	0.012933		
	50	13.82	0.016519		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	2.65	0.003168	±2.5	Pass
	3.91	5.84	0.006981		
	4.50	5.59	0.006682		
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		
3.91	-30	3.84	0.002043	Within authorized band for PCS 1900	Pass
	-20	1.84	0.000979		
	-10	7.62	0.004053		
	0	-1.26	-0.000670		
	10	1.03	0.000548		
	20	-0.29	-0.000154		
	30	-4.68	-0.002489		
	40	-0.45	-0.000239		
	50	-1.16	-0.000617		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	-3.62	-0.001926	Within authorized band for PCS 1900	Pass
	3.91	-7.81	-0.004154		
	4.50	-1.94	-0.001032		
<i>Remark: All channel had been tested, but only the worst case data displayed in this report.</i>					

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

