

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	31.83	23.36	38.45	PASS
GSM850	190	5	31.95	23.48	38.45	PASS
GSM850	251	5	31.57	23.1	38.45	PASS
GSM1900	512	0	28.91	26.05	33.00	PASS
GSM1900	661	0	29.15	26.29	33.00	PASS
GSM1900	810	0	29.06	26.2	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	5	1	31.83	23.36	38.45	PASS
GPRS850	128	5	2	29.73	21.26	38.45	PASS
GPRS850	128	5	3	27.76	19.29	38.45	PASS
GPRS850	128	5	4	25.60	17.13	38.45	PASS
GPRS850	190	5	1	32.00	23.53	38.45	PASS
GPRS850	190	5	2	29.96	21.49	38.45	PASS
GPRS850	190	5	3	27.96	19.49	38.45	PASS
GPRS850	190	5	4	25.78	17.31	38.45	PASS
GPRS850	251	5	1	31.59	23.12	38.45	PASS
GPRS850	251	5	2	29.76	21.29	38.45	PASS
GPRS850	251	5	3	27.78	19.31	38.45	PASS
GPRS850	251	5	4	25.61	17.14	38.45	PASS
GPRS1900	512	0	1	28.93	26.07	33.00	PASS
GPRS1900	512	0	2	26.40	23.54	33.00	PASS
GPRS1900	512	0	3	24.72	21.86	33.00	PASS
GPRS1900	512	0	4	22.45	19.59	33.00	PASS
GPRS1900	661	0	1	29.17	26.31	33.00	PASS
GPRS1900	661	0	2	26.67	23.81	33.00	PASS
GPRS1900	661	0	3	25.01	22.15	33.00	PASS
GPRS1900	661	0	4	22.72	19.86	33.00	PASS
GPRS1900	810	0	1	29.10	26.24	33.00	PASS
GPRS1900	810	0	2	26.80	23.94	33.00	PASS
GPRS1900	810	0	3	25.23	22.37	33.00	PASS
GPRS1900	810	0	4	23.00	20.14	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	2.65	13	PASS
GSM1900	661	0	2.61	13	PASS

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

Test Graphs

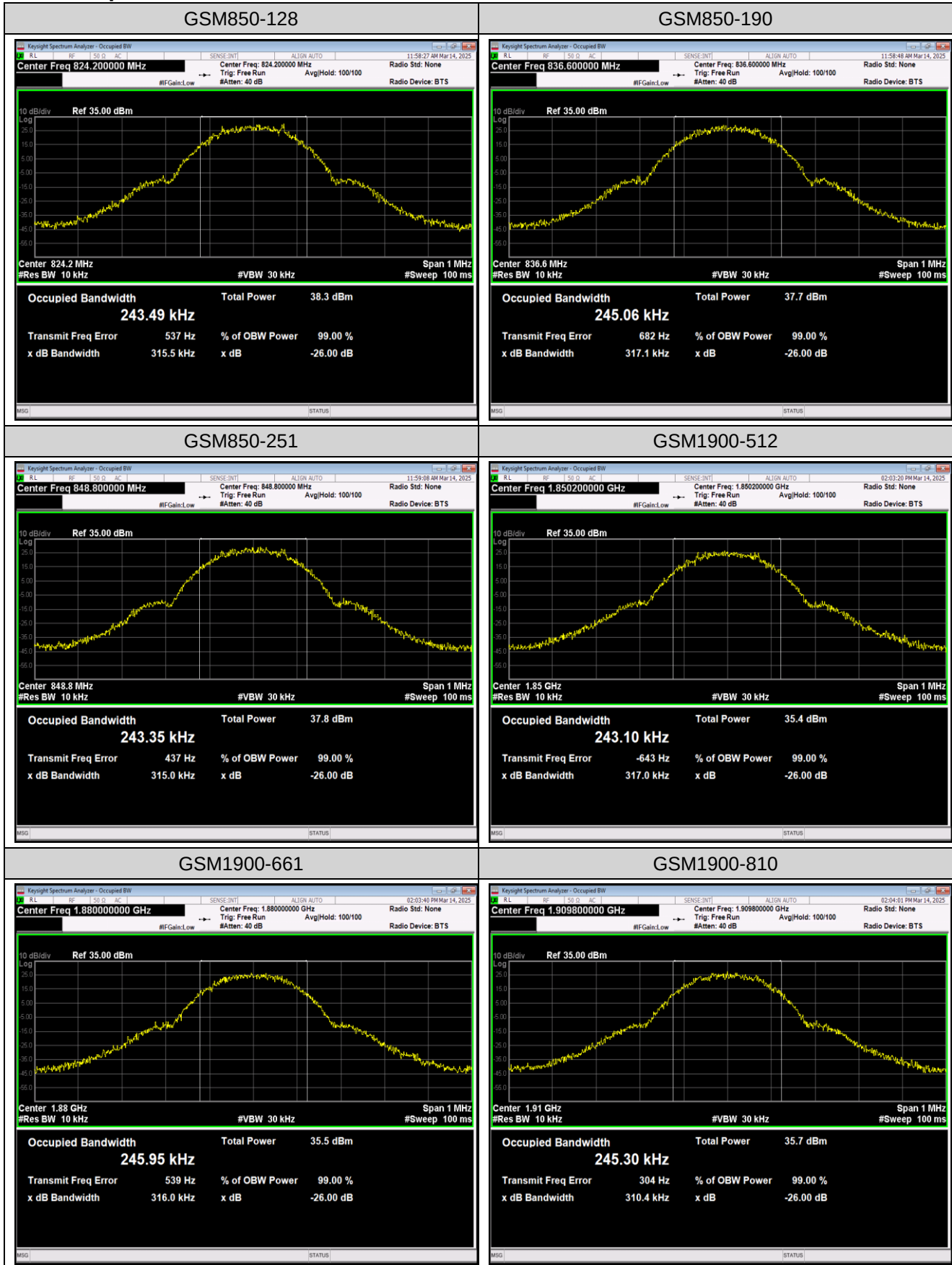


Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	5	0.24349	0.3155	---	PASS
GSM850	190	5	0.24506	0.3171	---	PASS
GSM850	251	5	0.24335	0.3150	---	PASS
GSM1900	512	0	0.24310	0.3170	---	PASS
GSM1900	661	0	0.24595	0.3160	---	PASS
GSM1900	810	0	0.24530	0.3104	---	PASS

Test Graphs

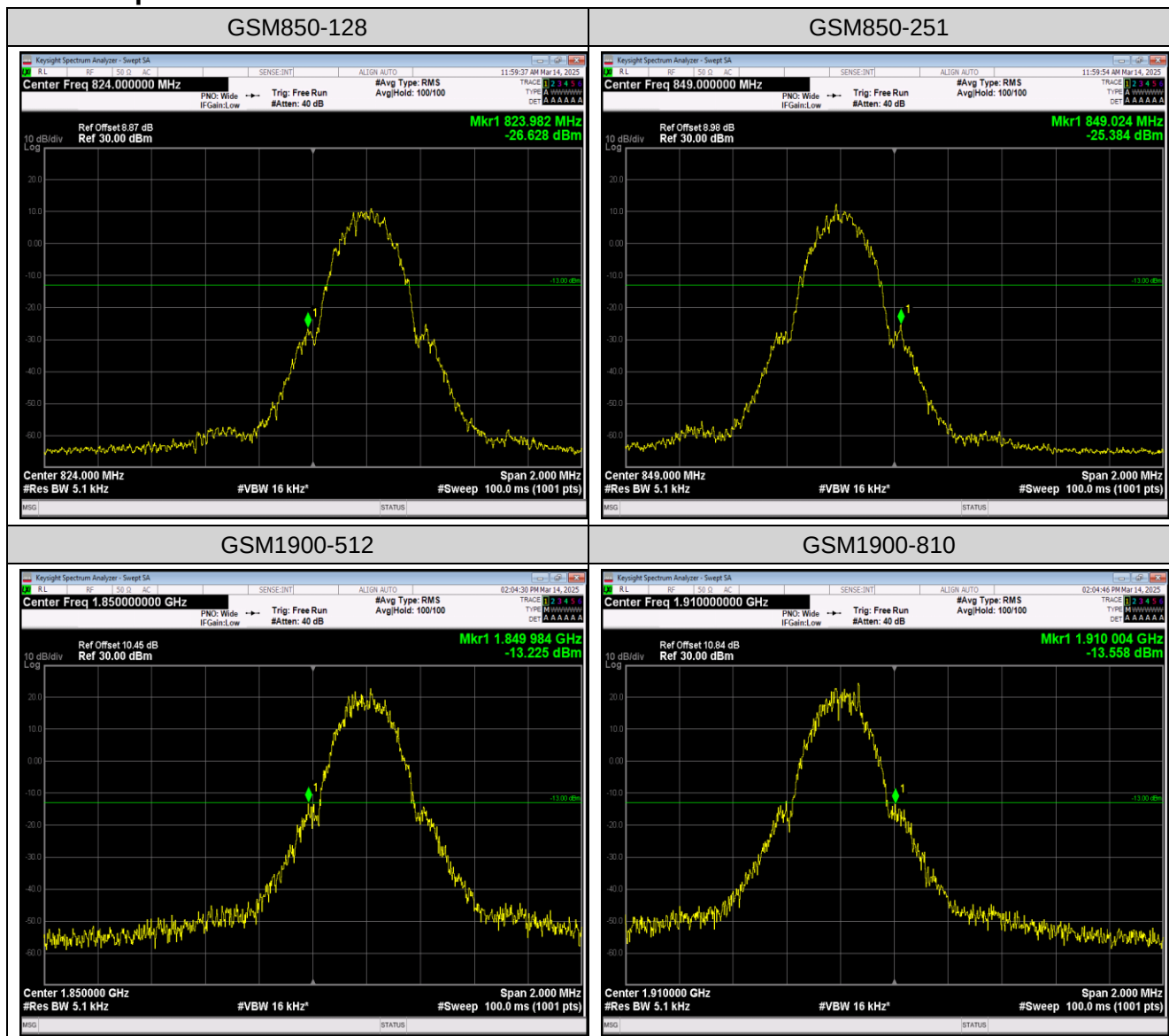


Appendix D: Band Edge

Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	5	823.98	-26.63	-13	PASS
GSM850	251	5	849.02	-25.38	-13	PASS
GSM1900	512	0	1849.98	-13.23	-13	PASS
GSM1900	810	0	1910.00	-13.56	-13	PASS

Test Graphs



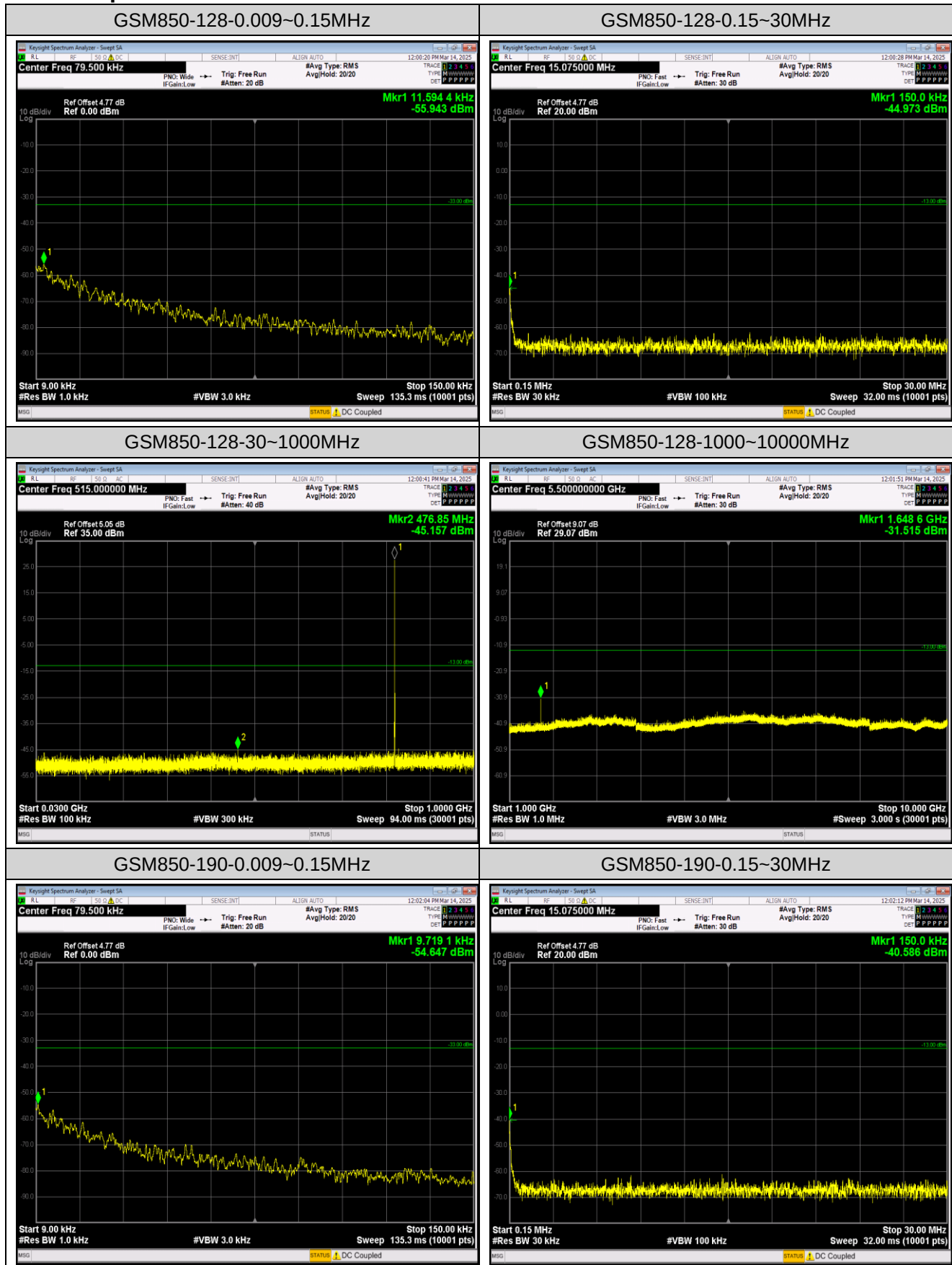
Appendix E: Conducted Spurious Emission

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	-55.94	-33	PASS
GSM850	128	5	0.15~30MHz	0.15	-44.97	-13	PASS
GSM850	128	5	30~1000MHz	476.85	-45.16	-13	PASS
GSM850	128	5	1000~10000MHz	1648.6	-31.52	-13	PASS
GSM850	190	5	0.009~0.15MHz	0.01	-54.65	-33	PASS
GSM850	190	5	0.15~30MHz	0.15	-40.59	-13	PASS
GSM850	190	5	30~1000MHz	940.6	-44.13	-13	PASS
GSM850	190	5	1000~10000MHz	1673.2	-32.31	-13	PASS
GSM850	251	5	0.009~0.15MHz	0.01	-54.92	-33	PASS
GSM850	251	5	0.15~30MHz	0.15	-44.04	-13	PASS
GSM850	251	5	30~1000MHz	467.5	-44.95	-13	PASS
GSM850	251	5	1000~10000MHz	1697.2	-32.39	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-56.57	-43	PASS
GSM1900	512	0	0.15~30MHz	0.15	-42.32	-23	PASS
GSM1900	512	0	30~1000MHz	907.37	-44.92	-13	PASS
GSM1900	512	0	1000~18000MHz	16957.9	-21.67	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-54.77	-43	PASS
GSM1900	661	0	0.15~30MHz	0.16	-42.54	-23	PASS
GSM1900	661	0	30~1000MHz	979.08	-45.8	-13	PASS
GSM1900	661	0	1000~18000MHz	17003.23	-22.25	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-55.75	-43	PASS
GSM1900	810	0	0.15~30MHz	0.15	-41.28	-23	PASS
GSM1900	810	0	30~1000MHz	830.02	-45.21	-13	PASS
GSM1900	810	0	1000~18000MHz	16275.07	-21.98	-13	PASS

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

Test Graphs

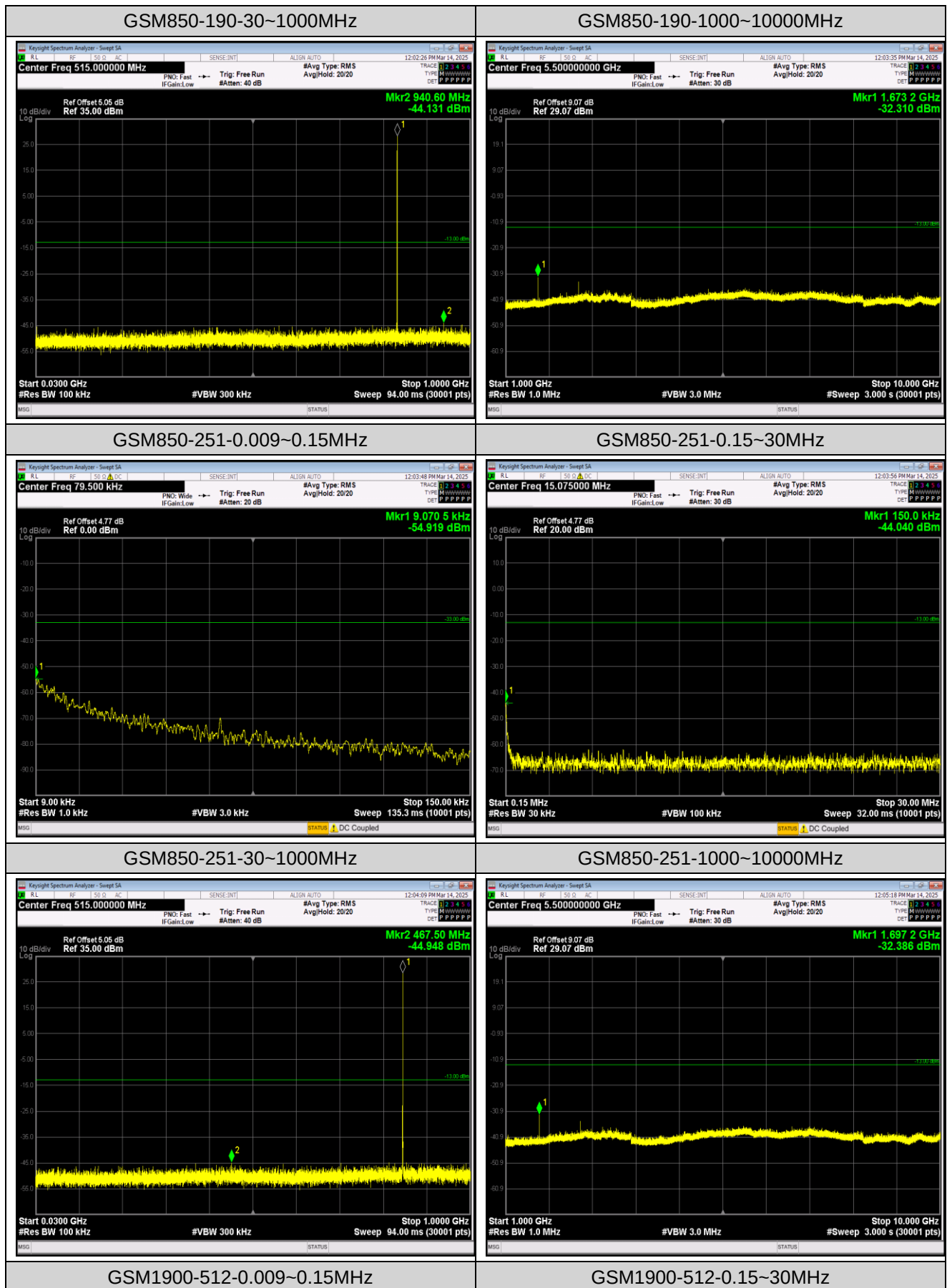


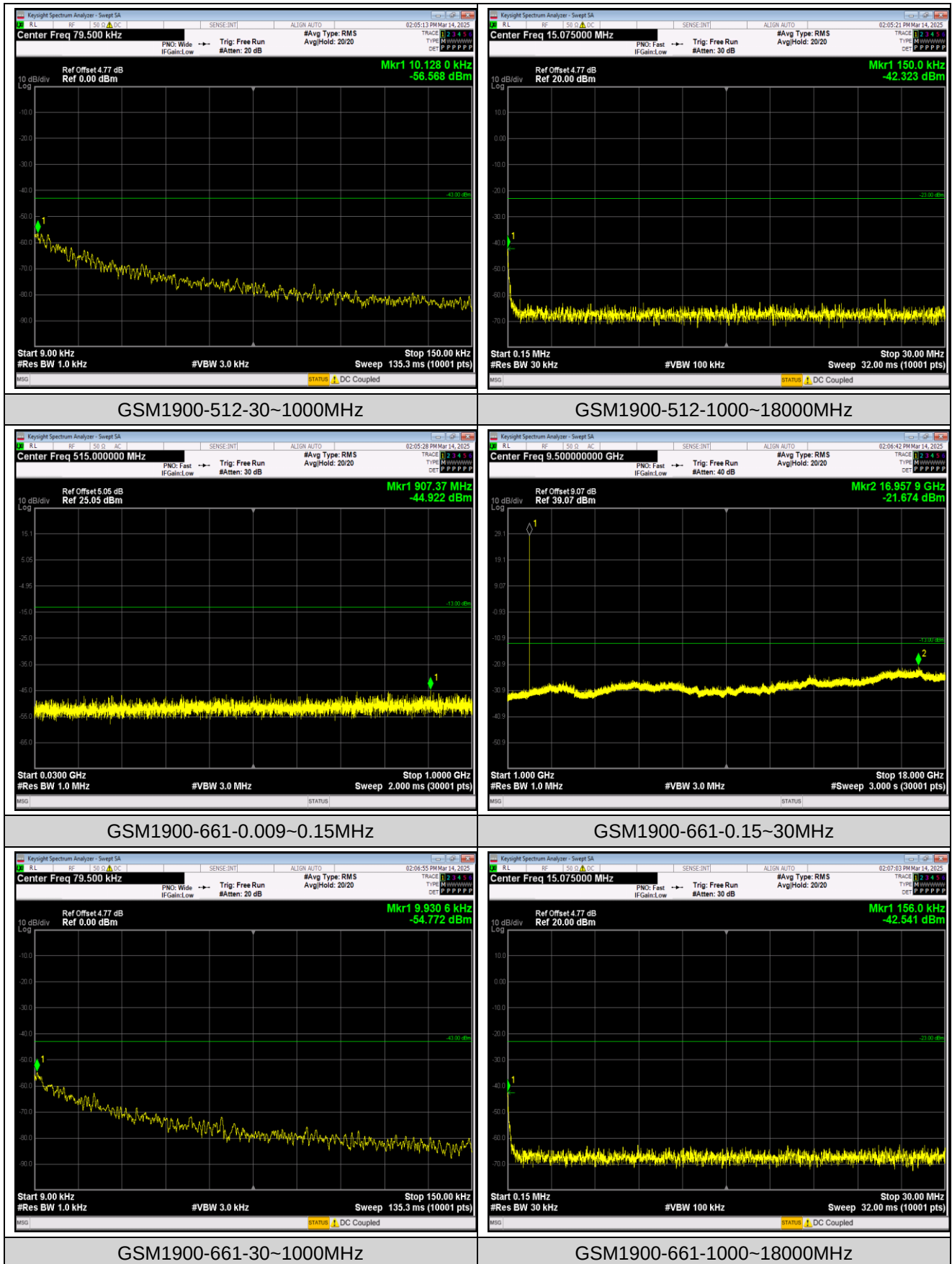
JianYan Testing Group Shenzhen Co., Ltd.

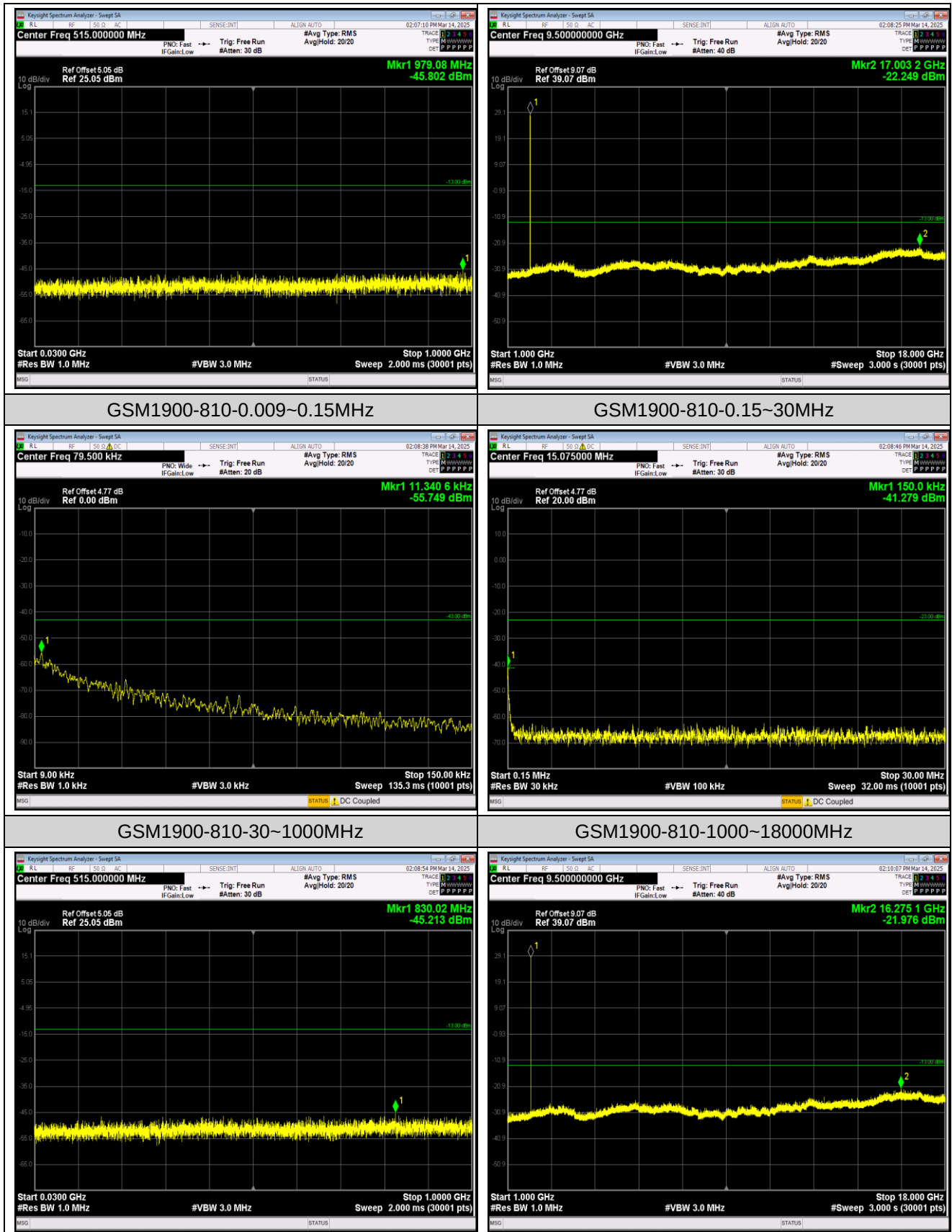
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Appendix F: Frequency Stability

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	-0.26	-0.000311	±2.5	Pass
	-20	1.90	0.002271		
	-10	0.55	0.000657		
	0	1.16	0.001387		
	10	-1.45	-0.001733		
	20	3.36	0.004016		
	30	-2.20	-0.002630		
	40	-0.61	-0.000729		
	50	4.49	0.005367		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	-1.29	-0.001542	±2.5	Pass
	3.91	-3.94	-0.004710		
	4.51	-2.26	-0.002701		
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	19.60	0.010426	Within authorized band for PCS 1900	Pass
	-20	3.16	0.001681		
	-10	5.10	0.002713		
	0	22.02	0.011713		
	10	14.08	0.007489		
	20	12.75	0.006782		
	30	16.98	0.009032		
	40	7.33	0.003899		
	50	3.81	0.002027		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	7.94	0.004223	Within authorized band for PCS 1900	Pass
	3.91	9.07	0.004824		
	4.51	19.73	0.010495		
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

