

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	32.27	27.87	38.45	PASS
GSM850	190	5	32.57	28.17	38.45	PASS
GSM850	251	5	32.21	27.81	38.45	PASS
GSM1900	512	0	29.38	29.63	33.00	PASS
GSM1900	661	0	29.99	30.24	33.00	PASS
GSM1900	810	0	29.87	30.12	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	5	1	32.92	28.52	38.45	PASS
GPRS850	128	5	2	30.32	25.92	38.45	PASS
GPRS850	128	5	3	28.68	24.28	38.45	PASS
GPRS850	128	5	4	27.09	22.69	38.45	PASS
GPRS850	190	5	1	33.20	28.8	38.45	PASS
GPRS850	190	5	2	30.65	26.25	38.45	PASS
GPRS850	190	5	3	29.02	24.62	38.45	PASS
GPRS850	190	5	4	27.44	23.04	38.45	PASS
GPRS850	251	5	1	32.86	28.46	38.45	PASS
GPRS850	251	5	2	30.42	26.02	38.45	PASS
GPRS850	251	5	3	28.80	24.4	38.45	PASS
GPRS850	251	5	4	27.22	22.82	38.45	PASS
GPRS1900	512	0	1	29.40	29.65	33.00	PASS
GPRS1900	512	0	2	27.20	27.45	33.00	PASS
GPRS1900	512	0	3	25.94	26.19	33.00	PASS
GPRS1900	512	0	4	24.14	24.39	33.00	PASS
GPRS1900	661	0	1	30.02	30.27	33.00	PASS
GPRS1900	661	0	2	27.99	28.24	33.00	PASS
GPRS1900	661	0	3	26.71	26.96	33.00	PASS
GPRS1900	661	0	4	24.92	25.17	33.00	PASS
GPRS1900	810	0	1	29.89	30.14	33.00	PASS
GPRS1900	810	0	2	28.15	28.4	33.00	PASS
GPRS1900	810	0	3	26.85	27.1	33.00	PASS
GPRS1900	810	0	4	25.04	25.29	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	2.64	13	PASS
GSM1900	661	0	2.63	13	PASS

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

Test Graphs

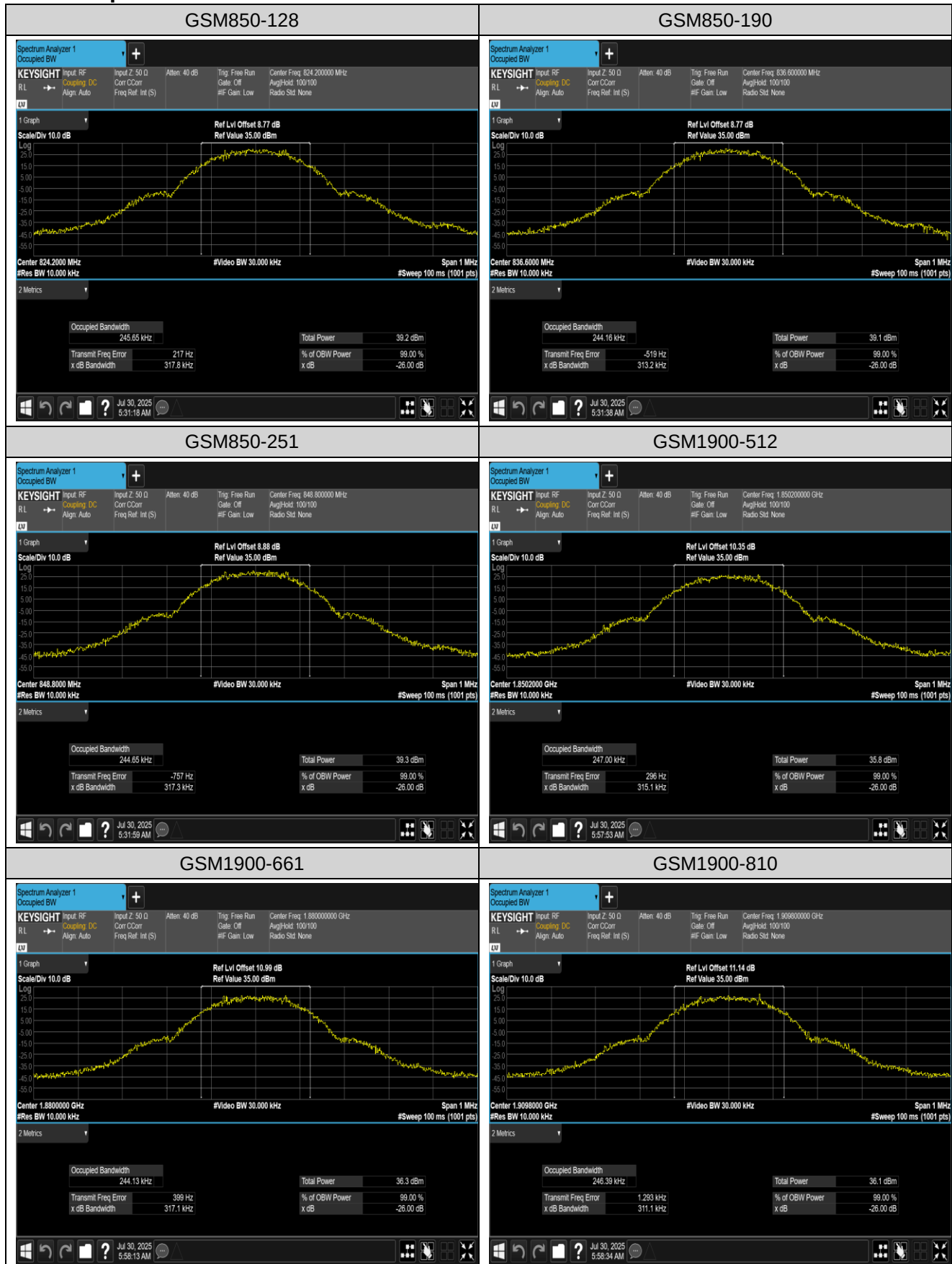


Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	5	0.24565	0.3178	---	PASS
GSM850	190	5	0.24416	0.3132	---	PASS
GSM850	251	5	0.24465	0.3173	---	PASS
GSM1900	512	0	0.24700	0.3151	---	PASS
GSM1900	661	0	0.24413	0.3171	---	PASS
GSM1900	810	0	0.24639	0.3111	---	PASS

Test Graphs



JianYan Testing Group Shenzhen Co., Ltd.

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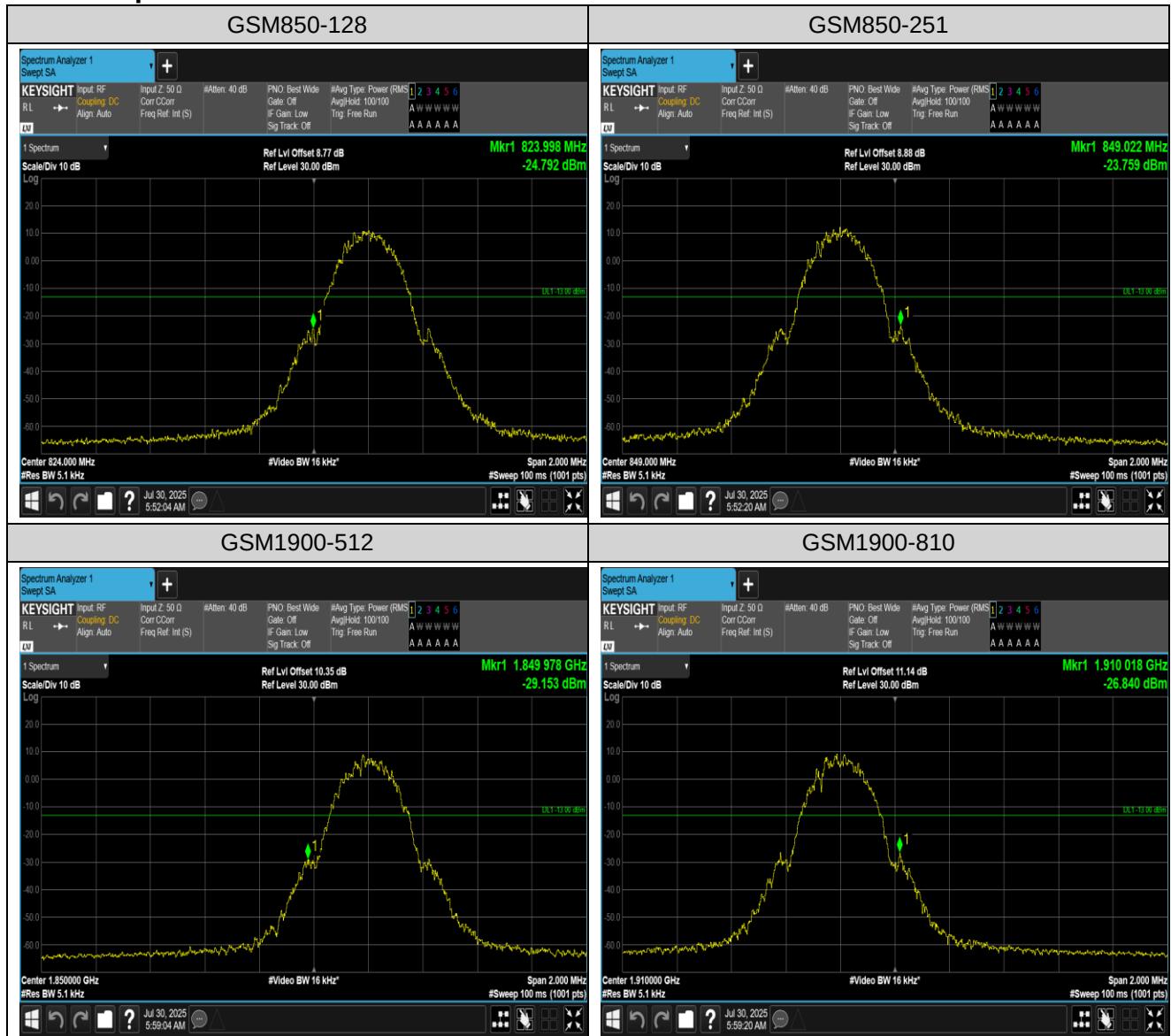
No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

Tel: +86-755-23118282, Fax: +86-755-23116366

Appendix D: Band Edge**Test Result**

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	5	824.00	-24.79	-13	PASS
GSM850	251	5	849.02	-23.76	-13	PASS
GSM1900	512	0	1849.98	-29.15	-13	PASS
GSM1900	810	0	1910.02	-26.84	-13	PASS

Test Graphs



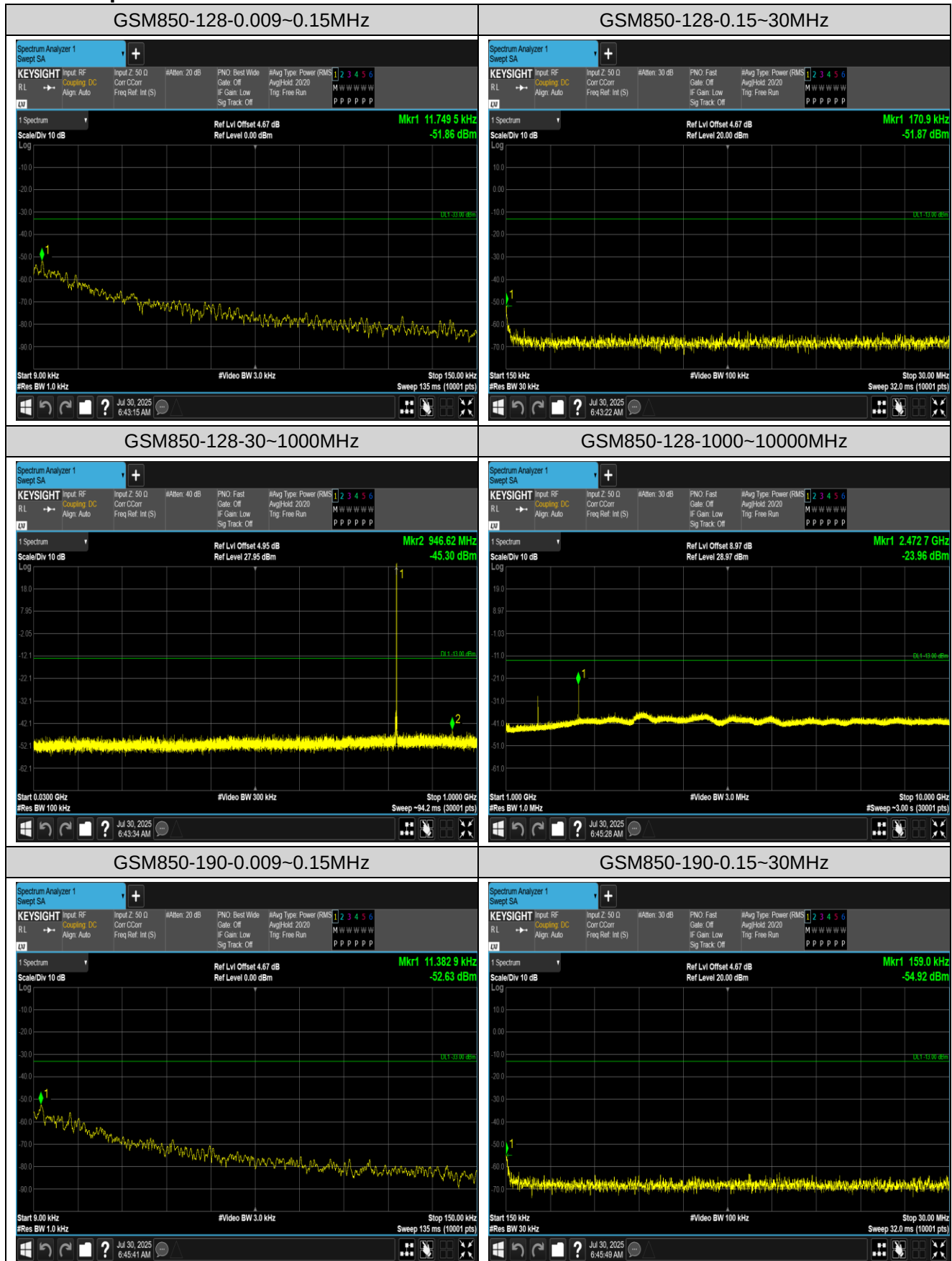
Appendix E: Conducted Spurious Emission

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	-51.86	-33	PASS
GSM850	128	5	0.15~30MHz	0.17	-51.87	-13	PASS
GSM850	128	5	30~1000MHz	946.62	-45.3	-13	PASS
GSM850	128	5	1000~10000MHz	2472.7	-23.96	-13	PASS
GSM850	190	5	0.009~0.15MHz	0.01	-52.63	-33	PASS
GSM850	190	5	0.15~30MHz	0.16	-54.92	-13	PASS
GSM850	190	5	30~1000MHz	508.02	-45.97	-13	PASS
GSM850	190	5	1000~10000MHz	2509.9	-22.95	-13	PASS
GSM850	251	5	0.009~0.15MHz	0.02	-53.2	-33	PASS
GSM850	251	5	0.15~30MHz	0.15	-53.3	-13	PASS
GSM850	251	5	30~1000MHz	725.55	-45.57	-13	PASS
GSM850	251	5	1000~10000MHz	2546.5	-21.78	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-56.28	-43	PASS
GSM1900	512	0	0.15~30MHz	0.16	-52.63	-23	PASS
GSM1900	512	0	30~1000MHz	536.86	-46.64	-13	PASS
GSM1900	512	0	1000~18000MHz	3801.6	-25.11	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-56.66	-43	PASS
GSM1900	661	0	0.15~30MHz	0.16	-51.41	-23	PASS
GSM1900	661	0	30~1000MHz	948.33	-46.51	-13	PASS
GSM1900	661	0	1000~18000MHz	16191.77	-25.7	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-56.1	-43	PASS
GSM1900	810	0	0.15~30MHz	0.15	-53.51	-23	PASS
GSM1900	810	0	30~1000MHz	947.39	-45.42	-13	PASS
GSM1900	810	0	1000~18000MHz	3791.4	-25.68	-13	PASS

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

Test Graphs

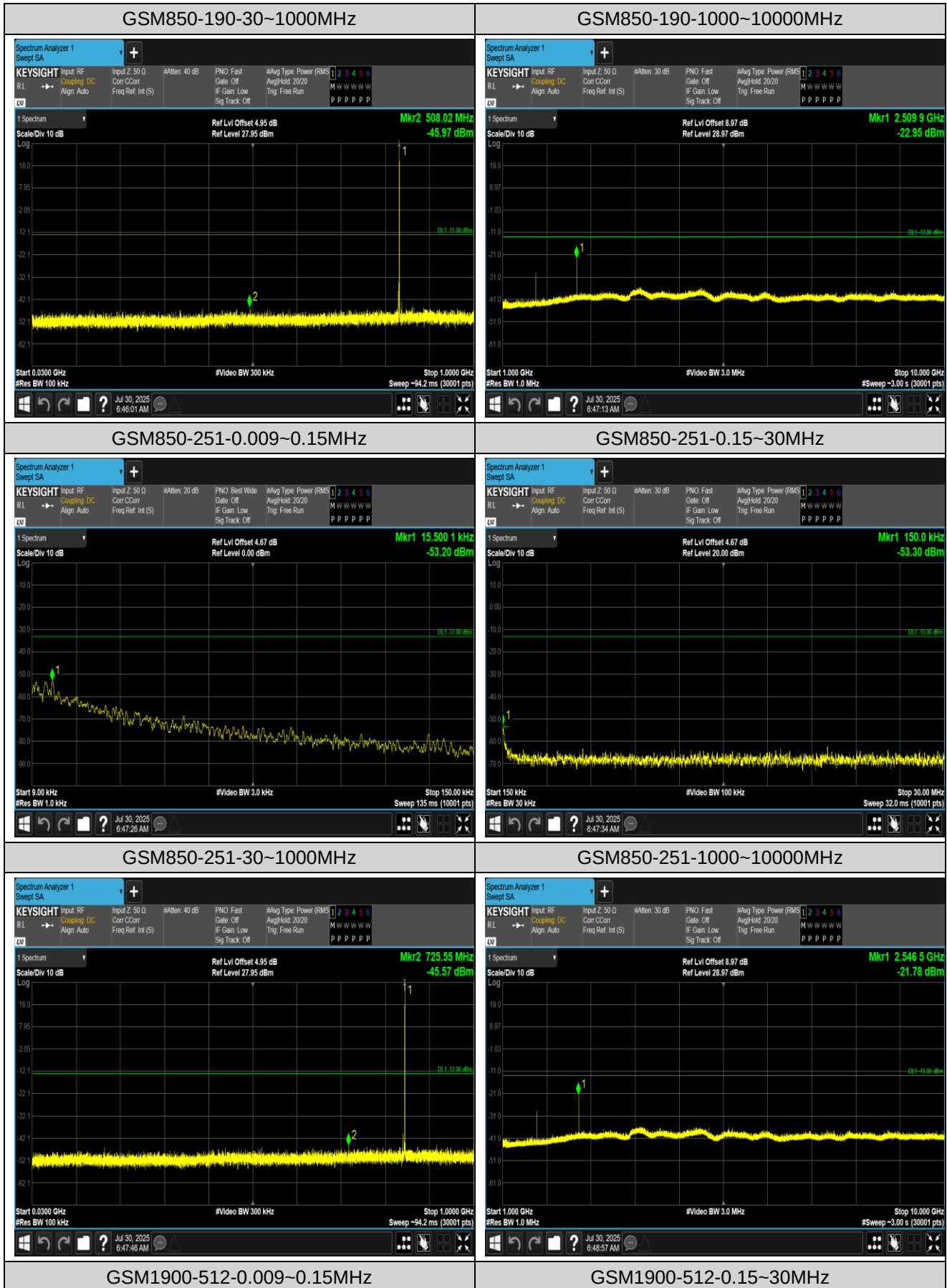


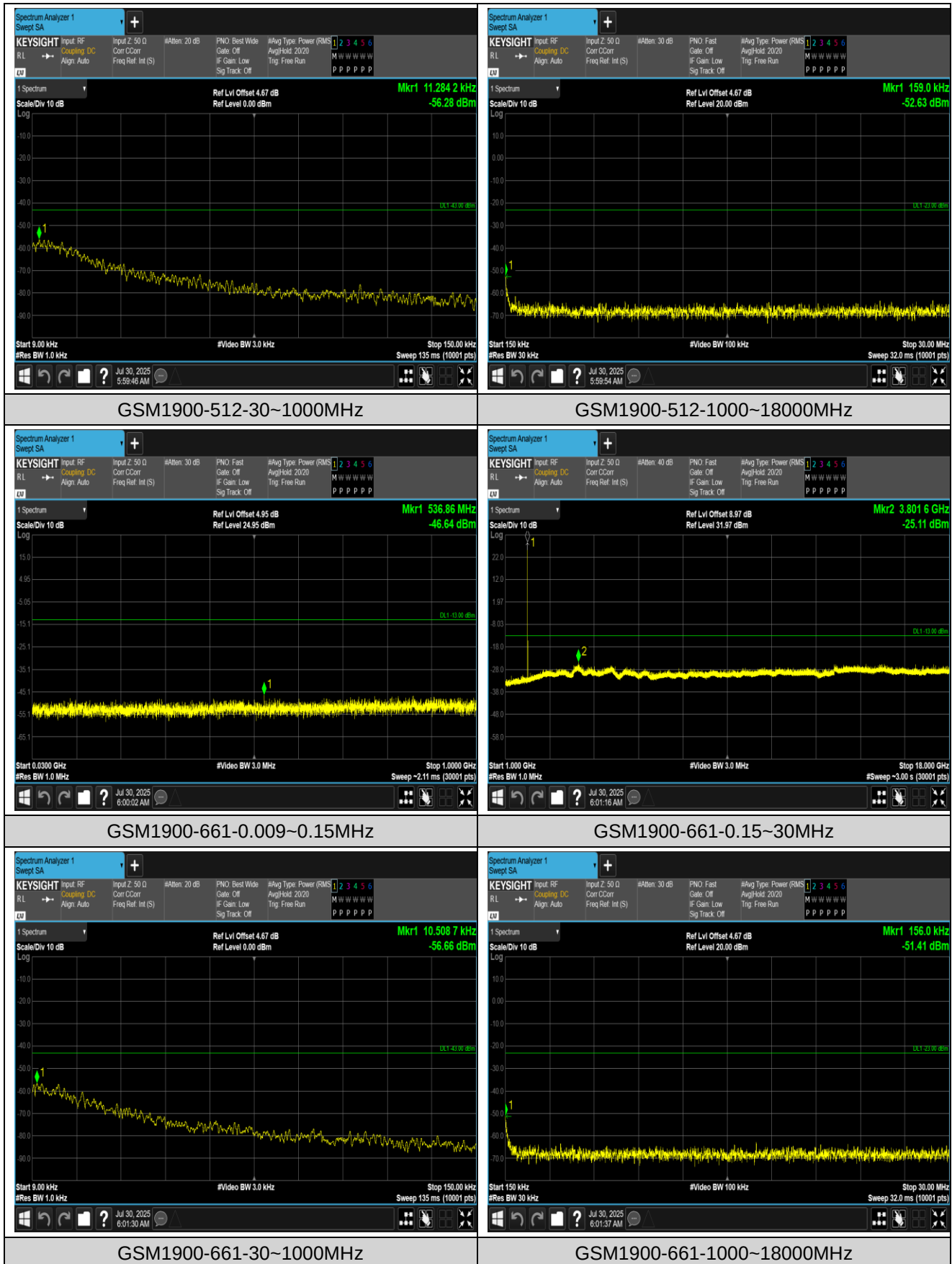
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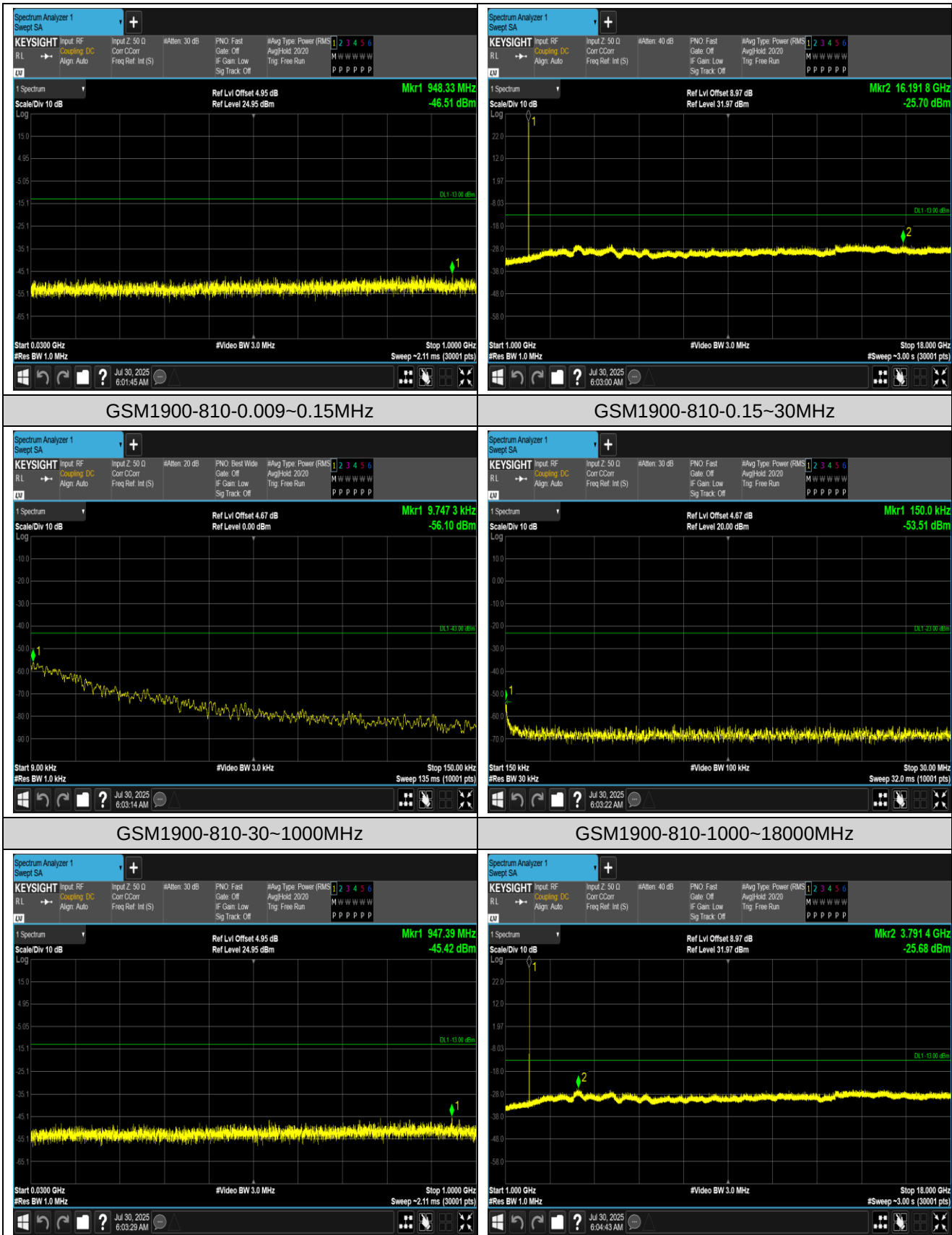
No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

Tel: +86-755-23118282, Fax: +86-755-23116366

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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		
3.70	-30	1.74	0.002080	±2.5	Pass
	-20	7.49	0.008953		
	-10	1.32	0.001578		
	0	-8.62	-0.010304		
	10	-2.42	-0.002893		
	20	2.65	0.003168		
	30	-2.97	-0.003550		
	40	5.88	0.007028		
	50	3.55	0.004243		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	6.55	0.007829	±2.5	Pass
	3.70	9.81	0.011726		
	4.20	1.97	0.002355		
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	29.44	0.015660	Within authorized band for PCS 1900	Pass
	-20	32.12	0.017085		
	-10	16.82	0.008947		
	0	7.85	0.004176		
	10	19.15	0.010186		
	20	8.27	0.004399		
	30	12.11	0.006441		
	40	16.92	0.009000		
	50	17.01	0.009048		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	12.20	0.006489	Within authorized band for PCS 1900	Pass
	3.70	9.46	0.005032		
	4.20	18.98	0.010096		
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

