

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	33.85	32.21	38.45	PASS
GSM850	190	5	33.80	32.16	38.45	PASS
GSM850	251	5	33.83	32.19	38.45	PASS
GSM1900	512	0	25.38	26.38	33.00	PASS
GSM1900	661	0	25.00	26	33.00	PASS
GSM1900	810	0	25.77	26.77	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	5	1	33.89	32.25	38.45	PASS
GPRS850	128	5	2	31.68	30.04	38.45	PASS
GPRS850	128	5	3	29.77	28.13	38.45	PASS
GPRS850	128	5	4	27.58	25.94	38.45	PASS
GPRS850	190	5	1	33.82	32.18	38.45	PASS
GPRS850	190	5	2	31.66	30.02	38.45	PASS
GPRS850	190	5	3	29.76	28.12	38.45	PASS
GPRS850	190	5	4	27.57	25.93	38.45	PASS
GPRS850	251	5	1	33.84	32.2	38.45	PASS
GPRS850	251	5	2	31.53	29.89	38.45	PASS
GPRS850	251	5	3	29.58	27.94	38.45	PASS
GPRS850	251	5	4	27.36	25.72	38.45	PASS
GPRS1900	512	0	1	25.25	26.25	33.00	PASS
GPRS1900	512	0	2	22.21	23.21	33.00	PASS
GPRS1900	512	0	3	20.58	21.58	33.00	PASS
GPRS1900	512	0	4	18.28	19.28	33.00	PASS
GPRS1900	661	0	1	24.83	25.83	33.00	PASS
GPRS1900	661	0	2	22.55	23.55	33.00	PASS
GPRS1900	661	0	3	20.92	21.92	33.00	PASS
GPRS1900	661	0	4	18.60	19.6	33.00	PASS
GPRS1900	810	0	1	25.60	26.6	33.00	PASS
GPRS1900	810	0	2	23.35	24.35	33.00	PASS
GPRS1900	810	0	3	21.72	22.72	33.00	PASS
GPRS1900	810	0	4	19.39	20.39	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
@FCC_EGPRS_Effective_Isotropic_radiated_power_E@							
BandName	Channel	PCL	TestSlot	Result	EIRP	Limit	Verdict

Remark: $EIRP (dBm) = \text{Conducted power (dBm)} + \text{Antenna Gain (dBi)}$. (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	2.62	13	PASS
GSM1900	661	0	2.65	13	PASS

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

Test Graphs

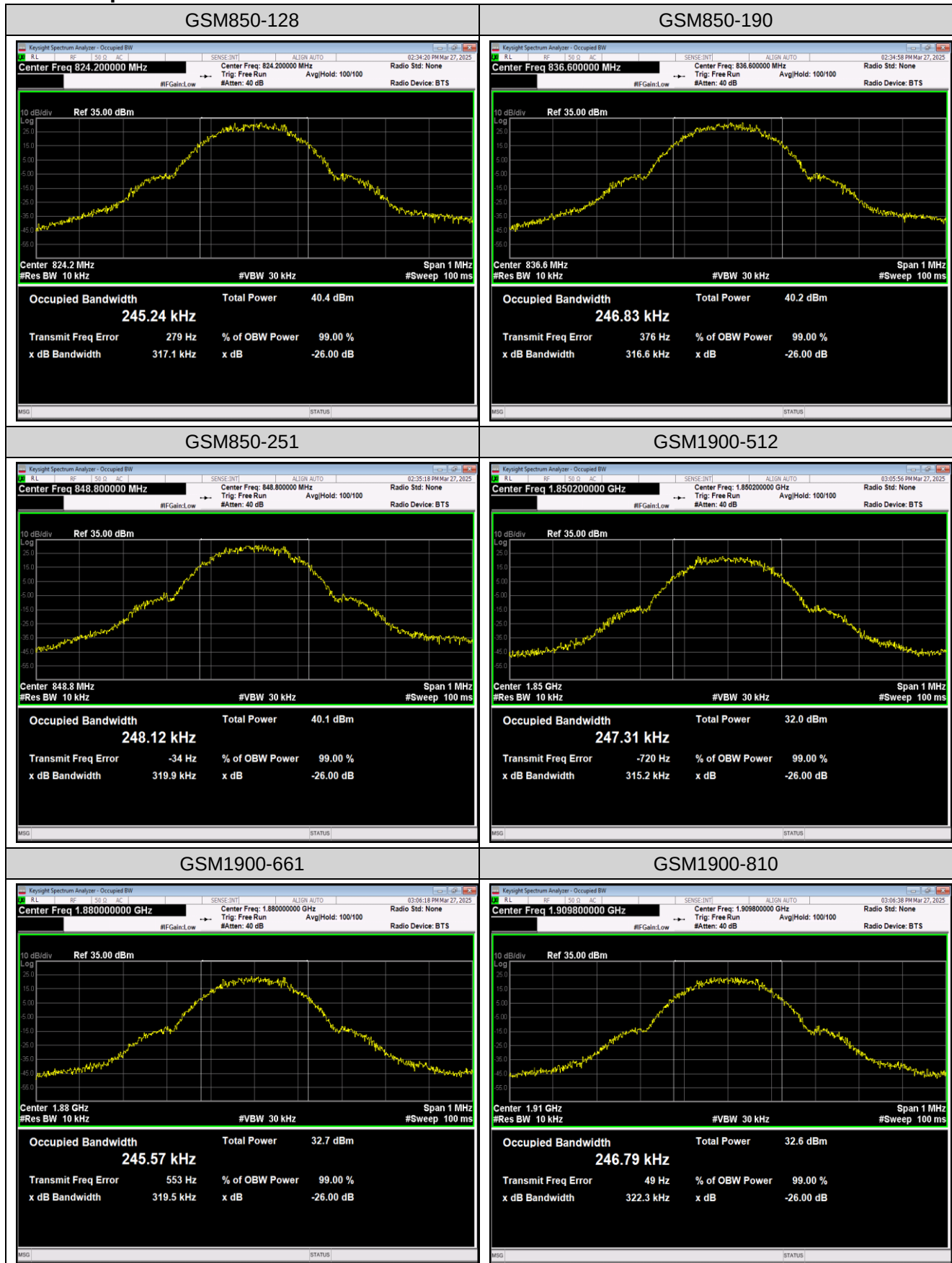


Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	5	0.24524	0.3171	---	PASS
GSM850	190	5	0.24683	0.3166	---	PASS
GSM850	251	5	0.24812	0.3199	---	PASS
GSM1900	512	0	0.24731	0.3152	---	PASS
GSM1900	661	0	0.24557	0.3195	---	PASS
GSM1900	810	0	0.24679	0.3223	---	PASS

Test Graphs

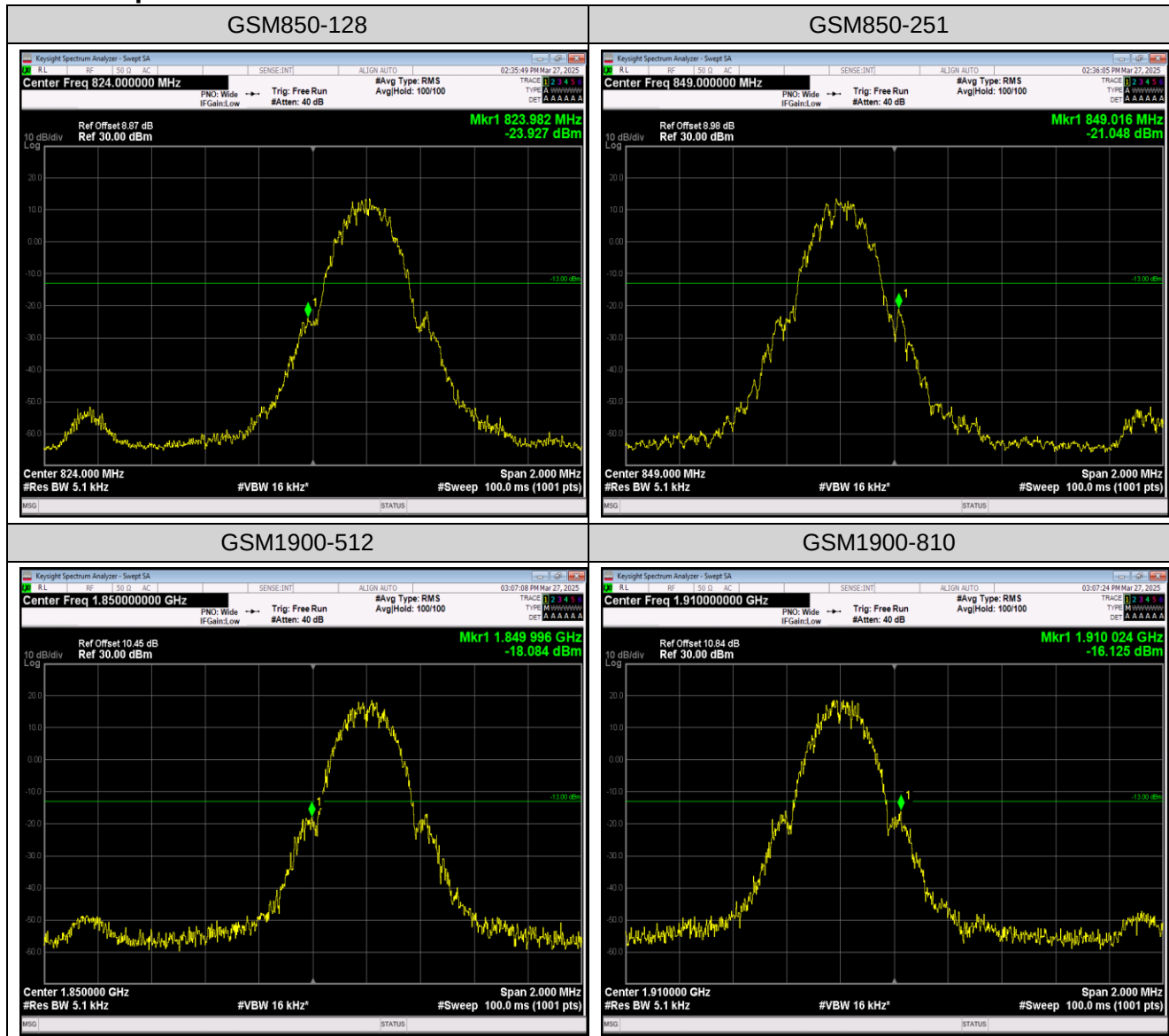


Appendix D: Band Edge

Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	5	823.98	-23.93	-13	PASS
GSM850	251	5	849.02	-21.05	-13	PASS
GSM1900	512	0	1850.00	-18.08	-13	PASS
GSM1900	810	0	1910.02	-16.12	-13	PASS

Test Graphs



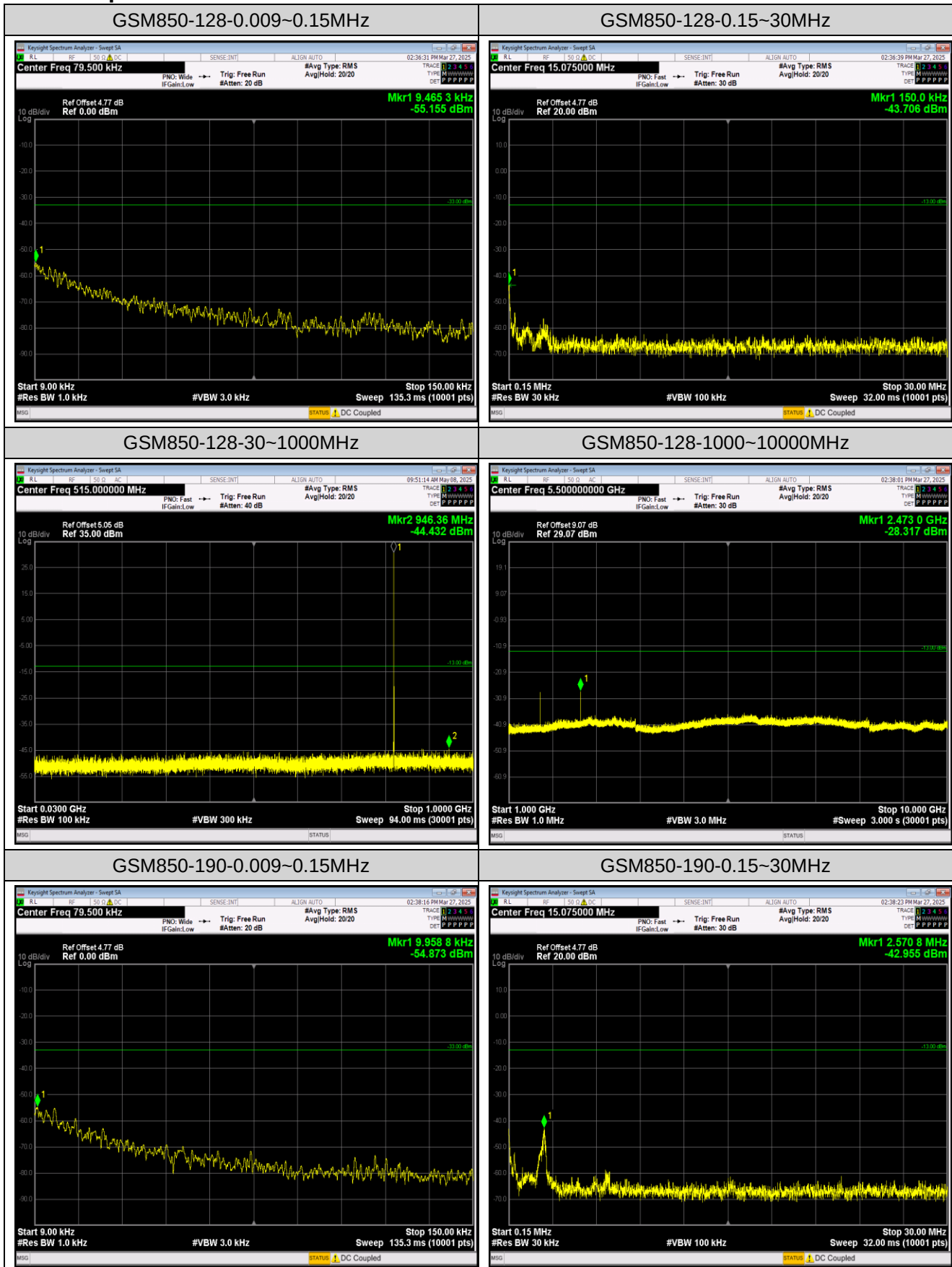
Appendix E: Conducted Spurious Emission

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	-55.16	-33	PASS
GSM850	128	5	0.15~30MHz	0.15	-43.71	-13	PASS
GSM850	128	5	30~1000MHz	959.45	-44.59	-13	PASS
GSM850	128	5	1000~10000MHz	2473	-28.32	-13	PASS
GSM850	190	5	0.009~0.15MHz	0.01	-54.87	-33	PASS
GSM850	190	5	0.15~30MHz	2.57	-42.96	-13	PASS
GSM850	190	5	30~1000MHz	545.33	-44.64	-13	PASS
GSM850	190	5	1000~10000MHz	2509.9	-28	-13	PASS
GSM850	251	5	0.009~0.15MHz	0.01	-55.2	-33	PASS
GSM850	251	5	0.15~30MHz	0.15	-41.91	-13	PASS
GSM850	251	5	30~1000MHz	431.26	-44.1	-13	PASS
GSM850	251	5	1000~10000MHz	2546.5	-28.01	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-55.17	-43	PASS
GSM1900	512	0	0.15~30MHz	0.16	-43.67	-23	PASS
GSM1900	512	0	30~1000MHz	793.94	-45.41	-13	PASS
GSM1900	512	0	1000~18000MHz	17015.13	-22.24	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-56.2	-43	PASS
GSM1900	661	0	0.15~30MHz	0.15	-41.77	-23	PASS
GSM1900	661	0	30~1000MHz	942.8	-46.02	-13	PASS
GSM1900	661	0	1000~18000MHz	17106.93	-21.98	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-55.21	-43	PASS
GSM1900	810	0	0.15~30MHz	2.57	-43.51	-23	PASS
GSM1900	810	0	30~1000MHz	595.32	-45.85	-13	PASS
GSM1900	810	0	1000~18000MHz	16909.73	-21.5	-13	PASS

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

Test Graphs

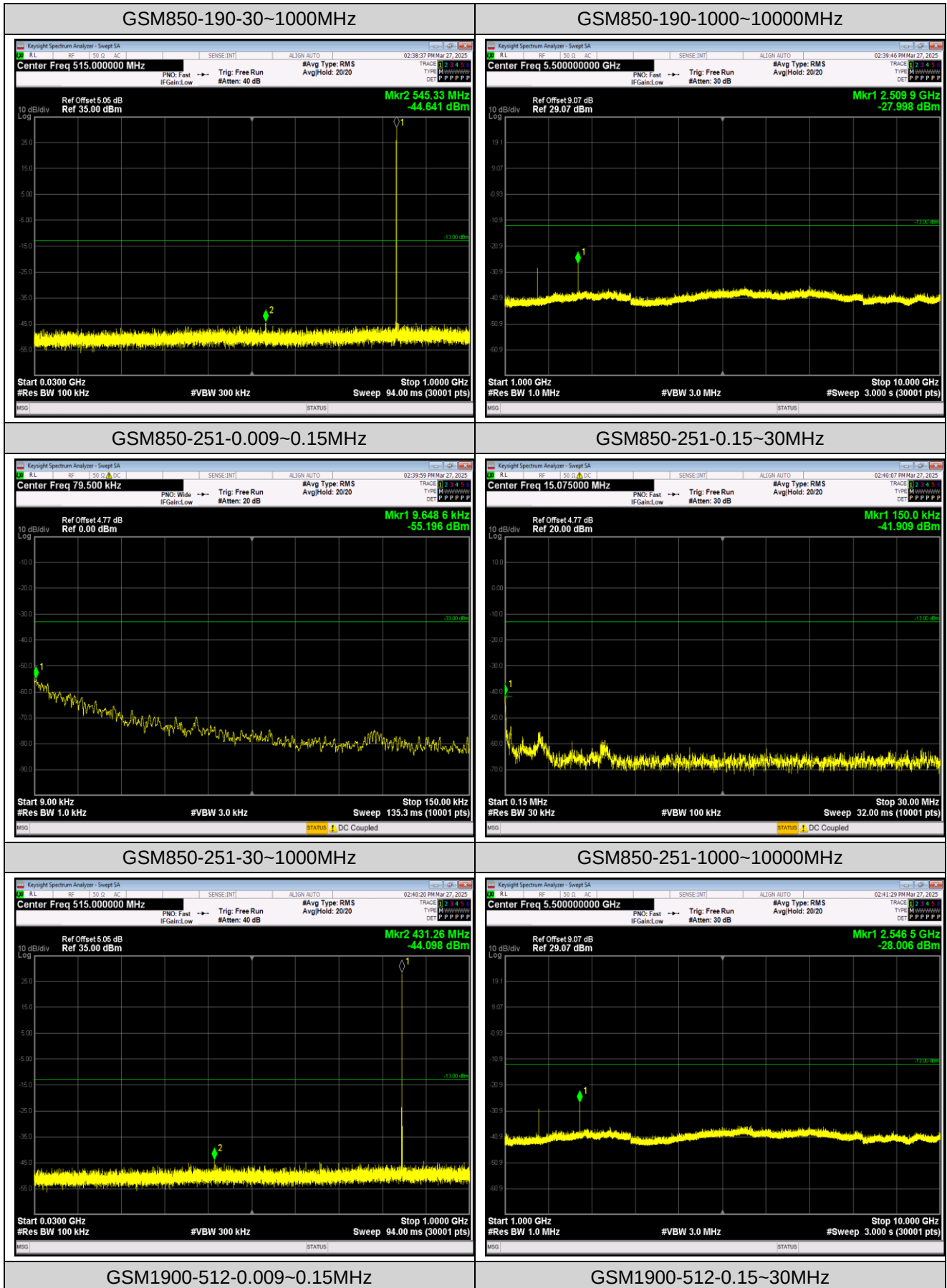


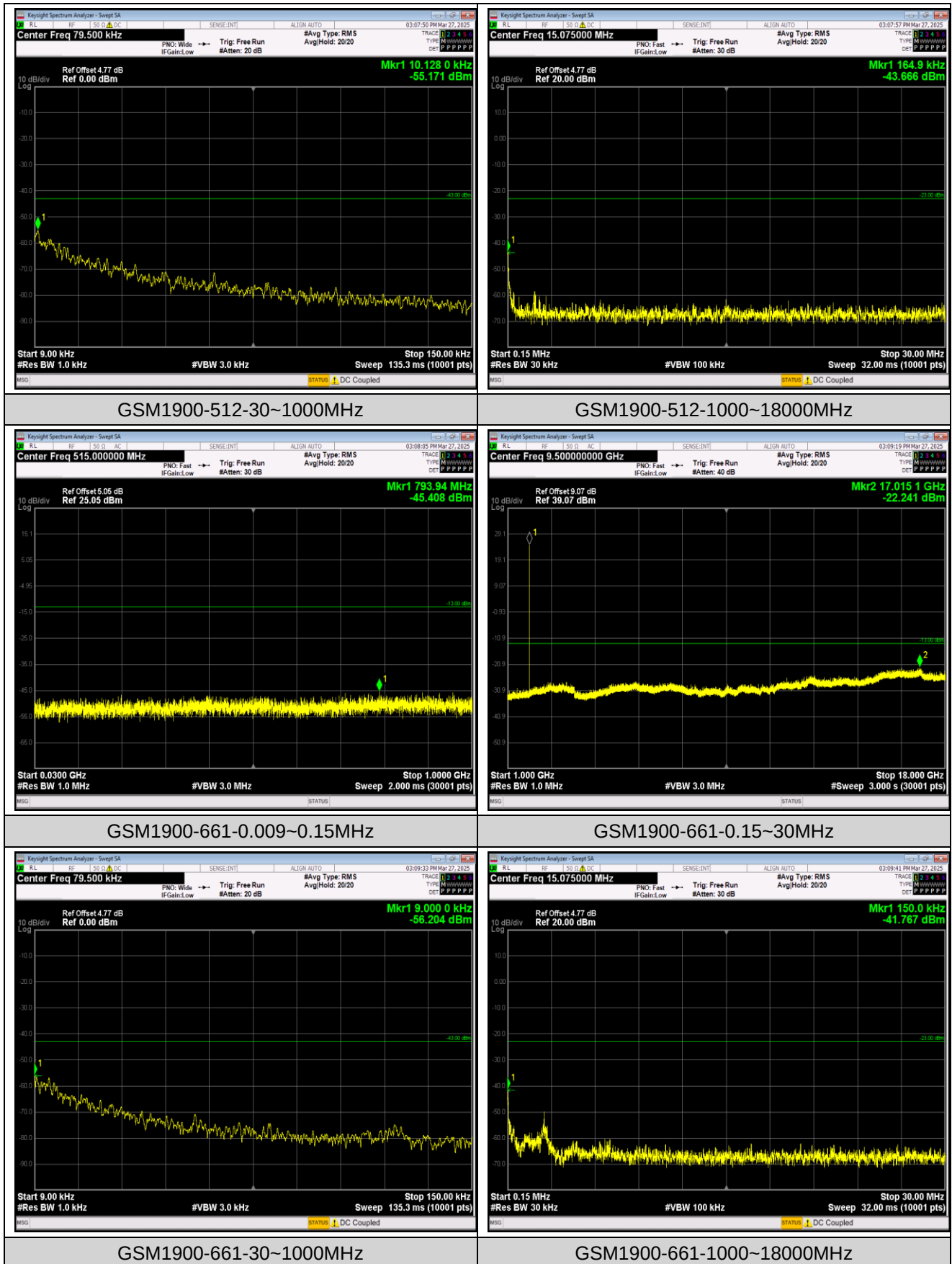
JianYan Testing Group Shenzhen Co., Ltd.

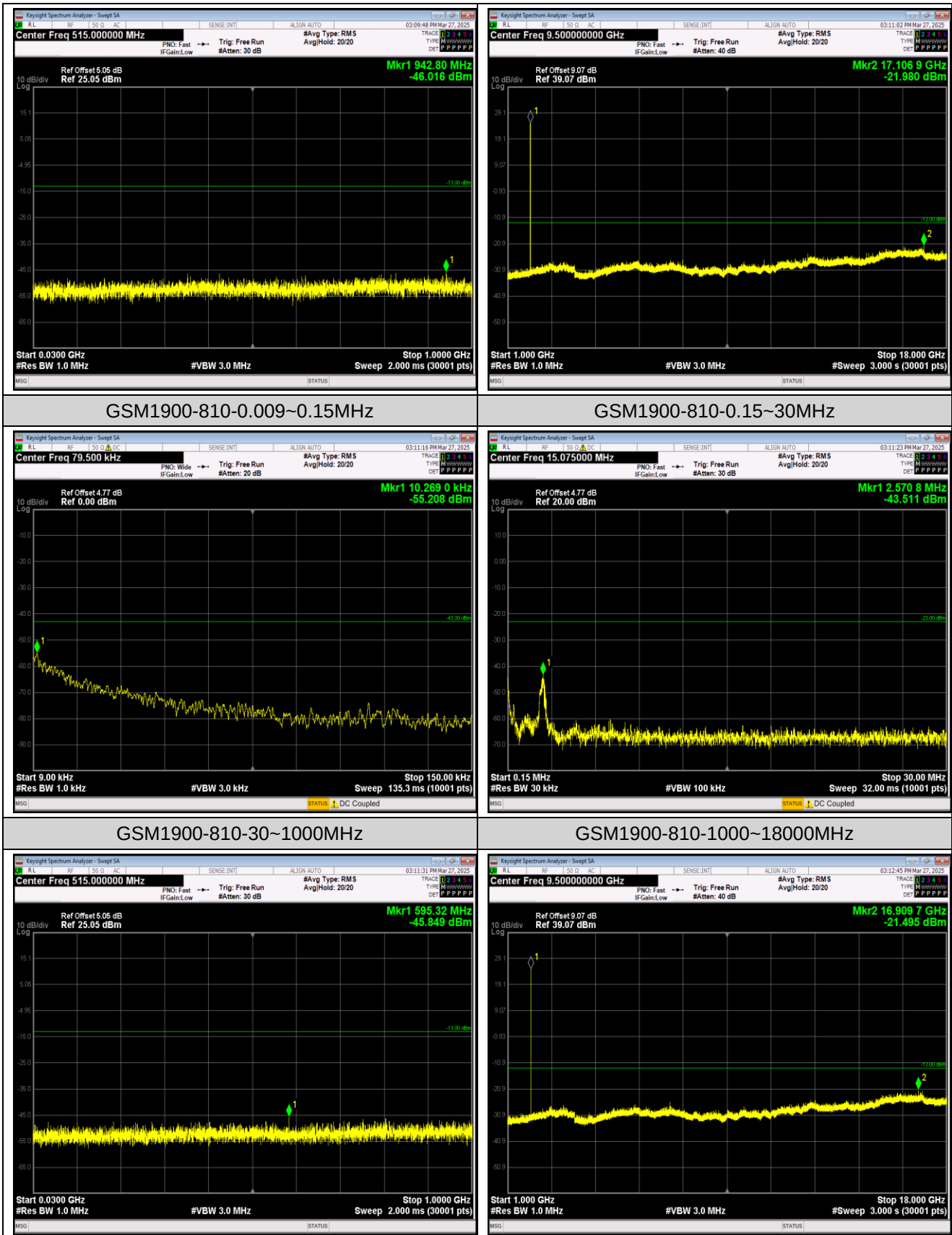
No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

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

Project No.: JYTSZR2503059







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		
3.7	-30	-7.91	-0.009455	±2.5	Pass
	-20	-7.17	-0.008570		
	-10	-5.59	-0.006682		
	0	-3.03	-0.003622		
	10	-6.62	-0.007913		
	20	-6.13	-0.007327		
	30	-7.65	-0.009144		
	40	-6.01	-0.007184		
	50	-6.78	-0.008104		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.26	0.68	0.000813	±2.5	Pass
	3.70	-9.81	-0.011726		
	3.15	-6.62	-0.007913		
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		
3.7	-30	-8.04	-0.004277	Within authorized band for PCS 1900	Pass
	-20	-6.55	-0.003484		
	-10	-9.85	-0.005239		
	0	-10.49	-0.005580		
	10	-6.39	-0.003399		
	20	-11.33	-0.006027		
	30	-4.97	-0.002644		
	40	-8.59	-0.004569		
	50	-10.53	-0.005601		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.26	-8.88	-0.004723	Within authorized band for PCS 1900	Pass
	3.70	-9.33	-0.004963		
	3.15	-6.26	-0.003330		
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

