

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	32.84	31.19	38.45	PASS
GSM850	190	5	32.93	31.28	38.45	PASS
GSM850	251	5	32.95	31.3	38.45	PASS
GSM1900	512	0	29.95	30.45	33.00	PASS
GSM1900	661	0	30.02	30.52	33.00	PASS
GSM1900	810	0	30.15	30.65	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	5	1	32.82	31.17	38.45	PASS
GPRS850	128	5	2	32.61	30.96	38.45	PASS
GPRS850	128	5	3	31.70	30.05	38.45	PASS
GPRS850	128	5	4	29.62	27.97	38.45	PASS
GPRS850	190	5	1	32.93	31.28	38.45	PASS
GPRS850	190	5	2	32.70	31.05	38.45	PASS
GPRS850	190	5	3	31.77	30.12	38.45	PASS
GPRS850	190	5	4	29.71	28.06	38.45	PASS
GPRS850	251	5	1	32.95	31.3	38.45	PASS
GPRS850	251	5	2	32.74	31.09	38.45	PASS
GPRS850	251	5	3	31.83	30.18	38.45	PASS
GPRS850	251	5	4	29.72	28.07	38.45	PASS
GPRS1900	512	0	1	29.99	30.49	33.00	PASS
GPRS1900	512	0	2	29.73	30.23	33.00	PASS
GPRS1900	512	0	3	28.80	29.3	33.00	PASS
GPRS1900	512	0	4	26.80	27.3	33.00	PASS
GPRS1900	661	0	1	30.02	30.52	33.00	PASS
GPRS1900	661	0	2	29.77	30.27	33.00	PASS
GPRS1900	661	0	3	28.84	29.34	33.00	PASS
GPRS1900	661	0	4	26.77	27.27	33.00	PASS
GPRS1900	810	0	1	30.15	30.65	33.00	PASS
GPRS1900	810	0	2	29.89	30.39	33.00	PASS
GPRS1900	810	0	3	28.94	29.44	33.00	PASS
GPRS1900	810	0	4	26.87	27.37	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
EGPRS850	128	8	1	27.98	26.33	38.45	PASS
EGPRS850	128	8	2	26.31	24.66	38.45	PASS
EGPRS850	128	8	3	23.60	21.95	38.45	PASS
EGPRS850	128	8	4	21.38	19.73	38.45	PASS
EGPRS850	190	8	1	27.55	25.9	38.45	PASS
EGPRS850	190	8	2	26.00	24.35	38.45	PASS
EGPRS850	190	8	3	23.24	21.59	38.45	PASS
EGPRS850	190	8	4	21.13	19.48	38.45	PASS
EGPRS850	251	8	1	27.21	25.56	38.45	PASS
EGPRS850	251	8	2	25.67	24.02	38.45	PASS
EGPRS850	251	8	3	22.94	21.29	38.45	PASS
EGPRS850	251	8	4	20.94	19.29	38.45	PASS
EGPRS1900	512	2	1	27.82	28.32	33.00	PASS
EGPRS1900	512	2	2	26.14	26.64	33.00	PASS
EGPRS1900	512	2	3	23.74	24.24	33.00	PASS
EGPRS1900	512	2	4	21.25	21.75	33.00	PASS
EGPRS1900	661	2	1	27.62	28.12	33.00	PASS
EGPRS1900	661	2	2	25.90	26.4	33.00	PASS
EGPRS1900	661	2	3	23.49	23.99	33.00	PASS
EGPRS1900	661	2	4	21.05	21.55	33.00	PASS
EGPRS1900	810	2	1	28.17	28.67	33.00	PASS
EGPRS1900	810	2	2	26.50	27	33.00	PASS
EGPRS1900	810	2	3	24.32	24.82	33.00	PASS
EGPRS1900	810	2	4	21.90	22.4	33.00	PASS

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

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

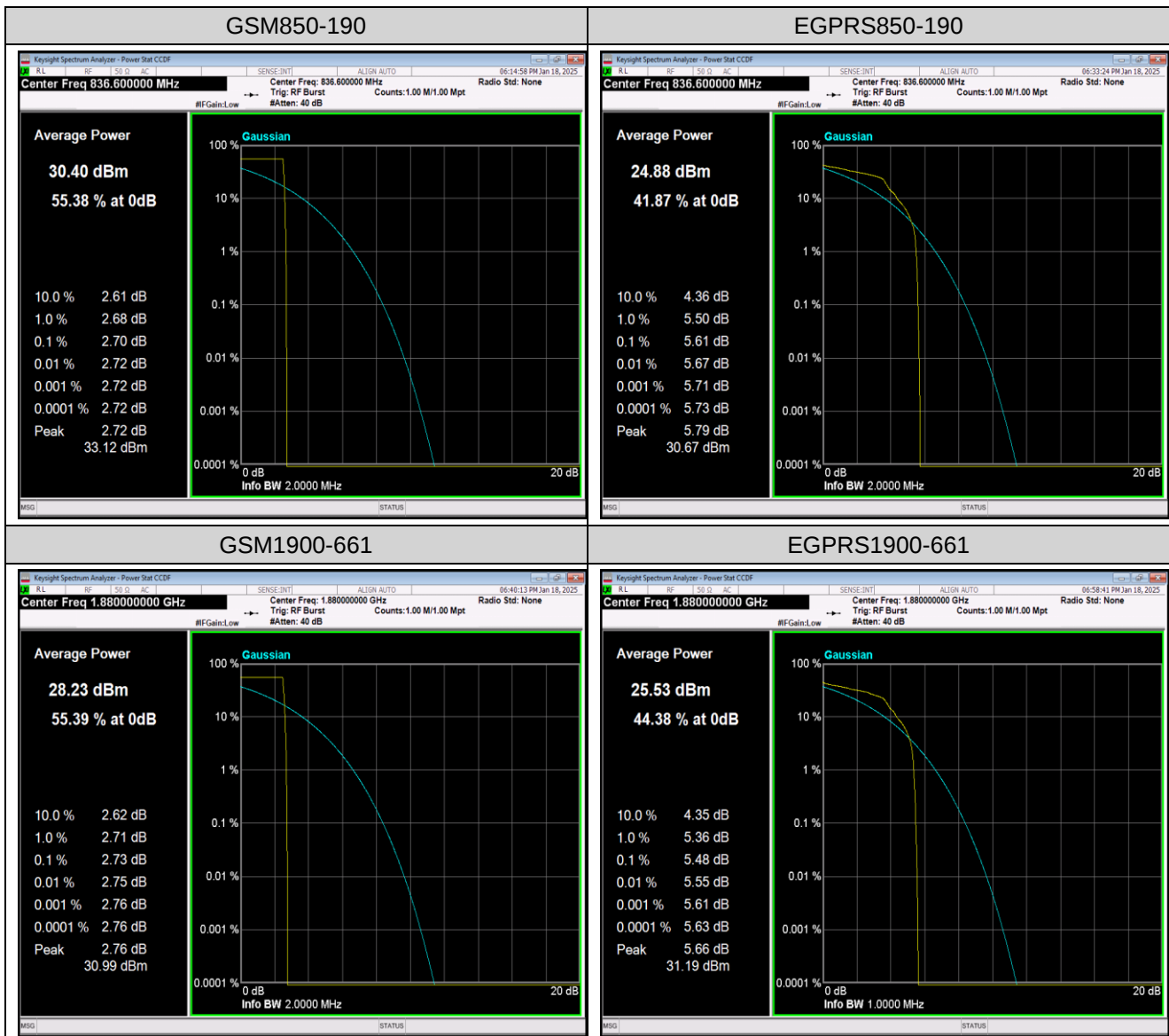
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	PCL	Result(dB)	Limit(dB)	Verdict
GSM850	190	5	2.7	13	PASS
EGPRS850	190	8	5.61	13	PASS
GSM1900	661	0	2.73	13	PASS
EGPRS1900	661	2	5.48	13	PASS

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

Test Graphs

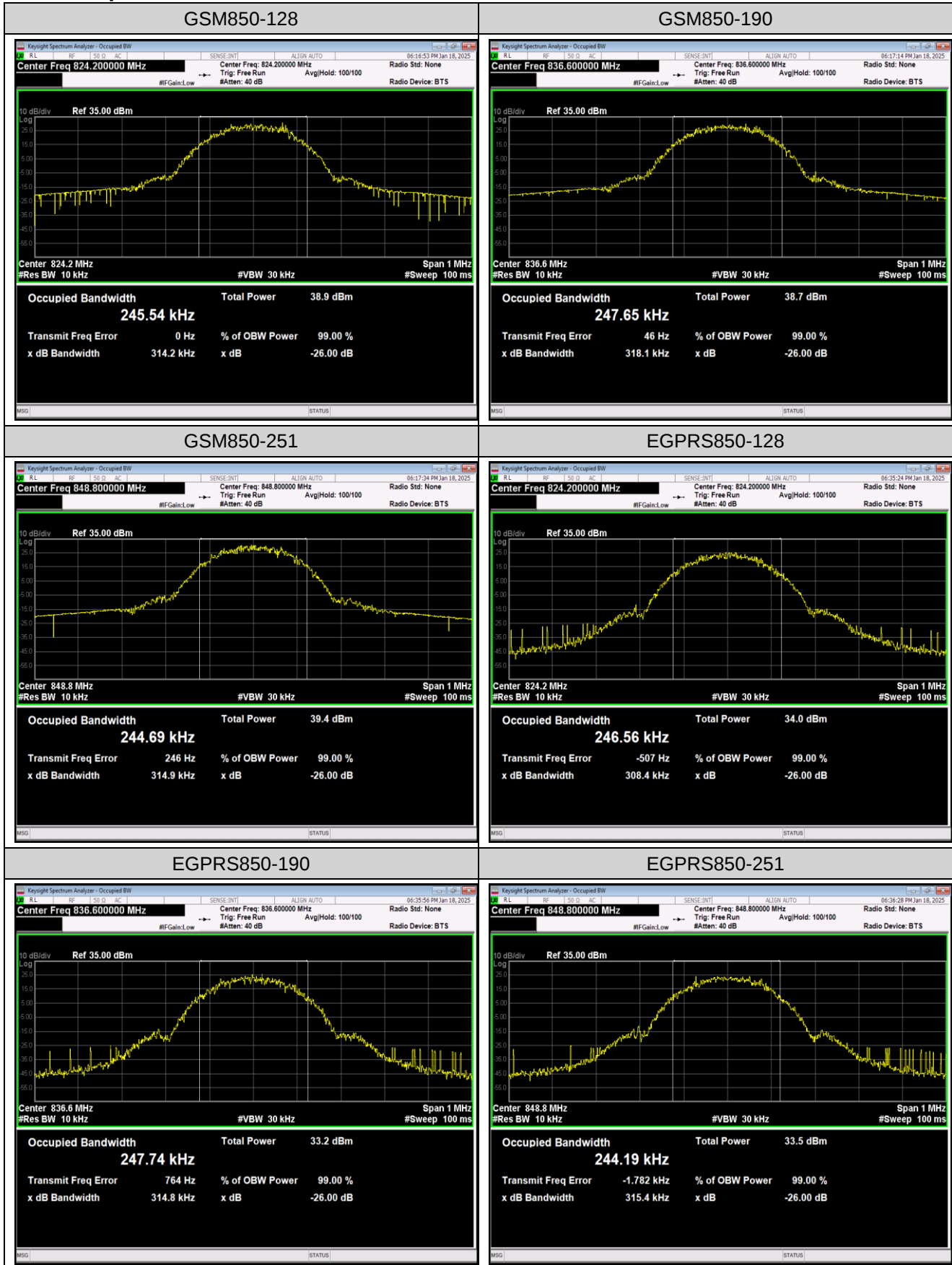


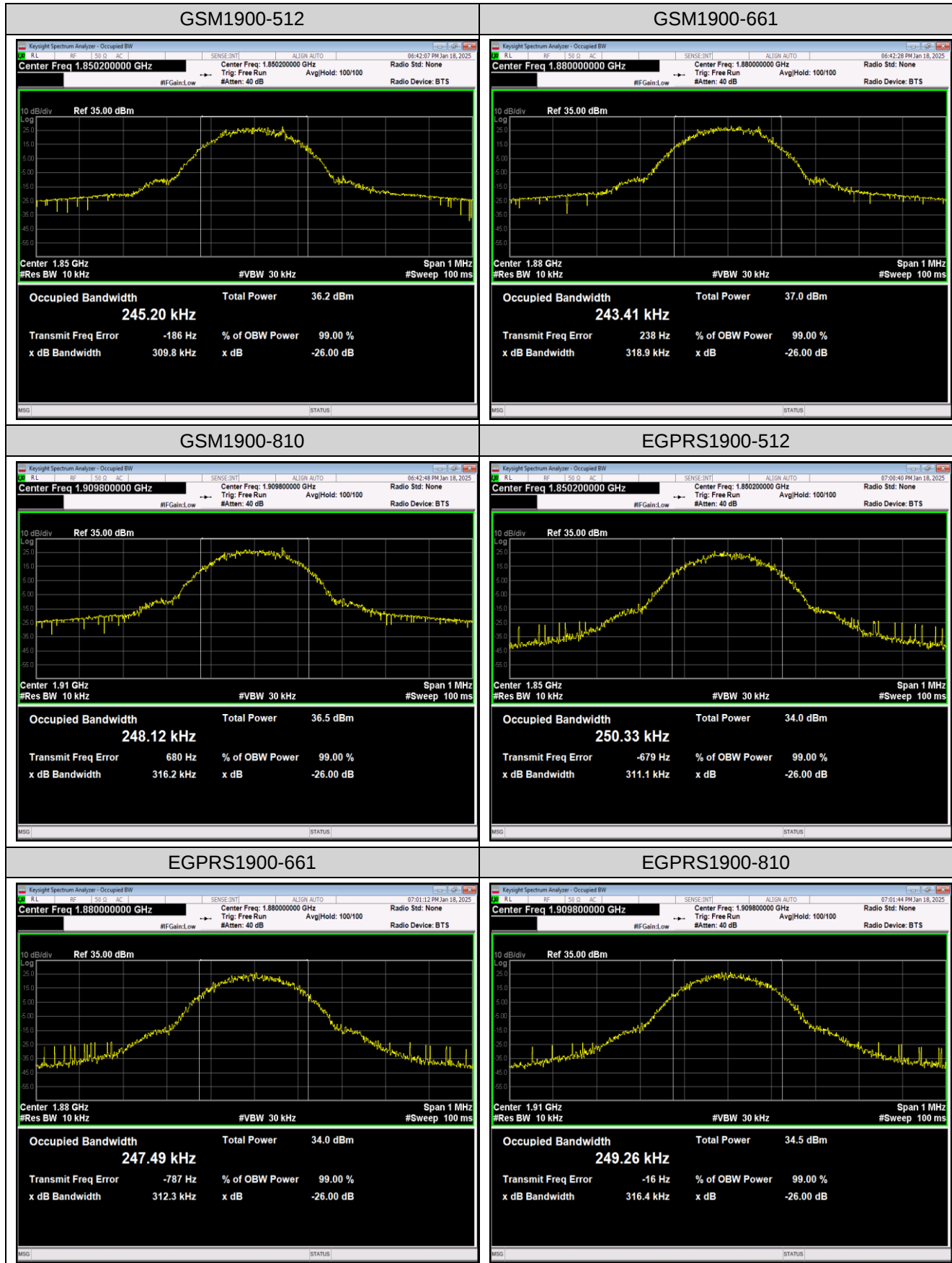
Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	5	0.24554	0.3142	---	PASS
GSM850	190	5	0.24765	0.3181	---	PASS
GSM850	251	5	0.24469	0.3149	---	PASS
EGPRS850	128	8	0.24656	0.3084	---	PASS
EGPRS850	190	8	0.24774	0.3148	---	PASS
EGPRS850	251	8	0.24419	0.3154	---	PASS
GSM1900	512	0	0.24520	0.3098	---	PASS
GSM1900	661	0	0.24341	0.3189	---	PASS
GSM1900	810	0	0.24812	0.3162	---	PASS
EGPRS1900	512	2	0.25033	0.3111	---	PASS
EGPRS1900	661	2	0.24749	0.3123	---	PASS
EGPRS1900	810	2	0.24926	0.3164	---	PASS

Test Graphs



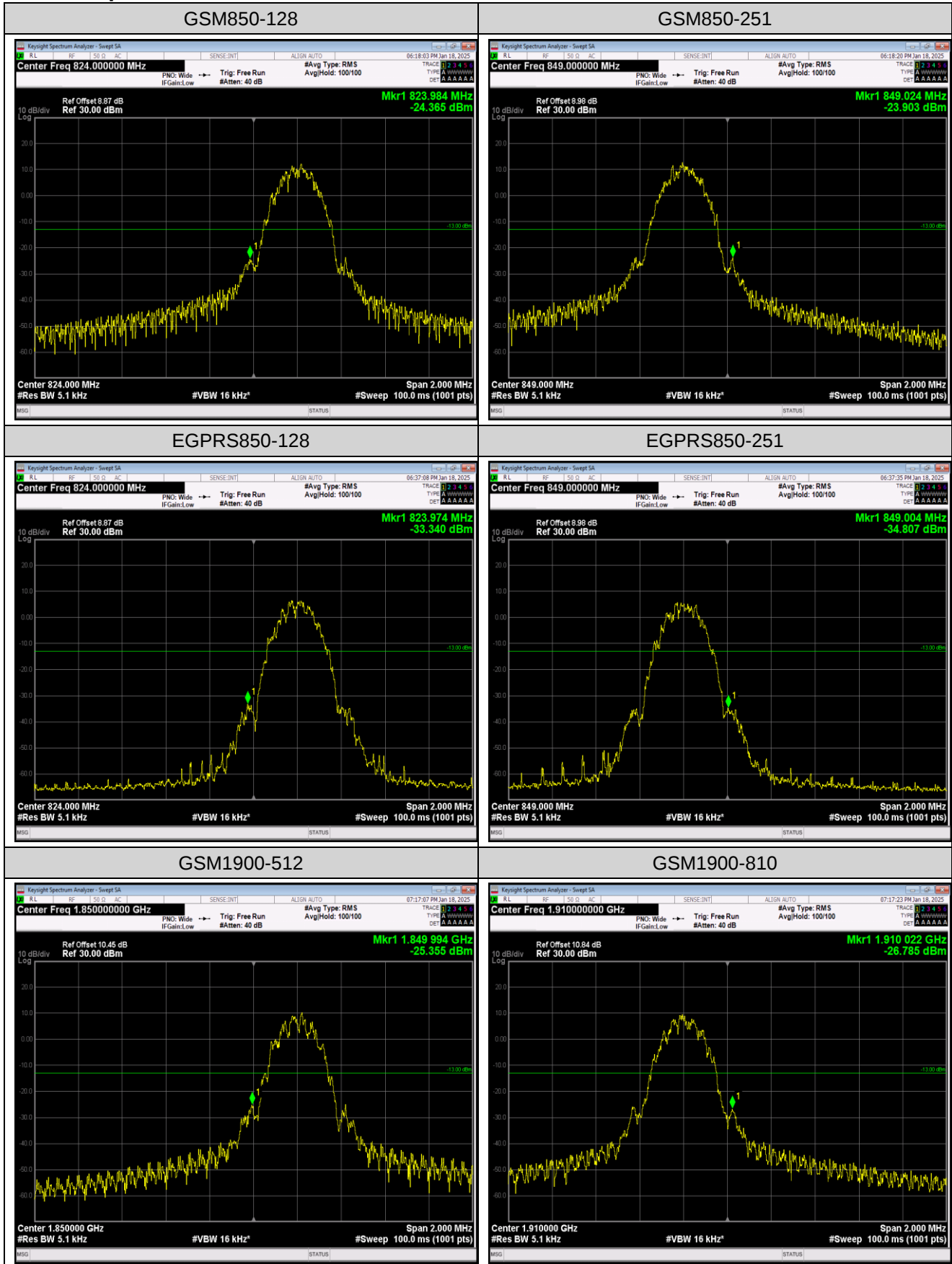


Appendix D: Band Edge

Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	5	823.98	-24.36	-13	PASS
GSM850	251	5	849.02	-23.90	-13	PASS
EGPRS850	128	8	823.97	-33.34	-13	PASS
EGPRS850	251	8	849.00	-34.81	-13	PASS
GSM1900	512	0	1849.99	-25.35	-13	PASS
GSM1900	810	0	1910.02	-26.78	-13	PASS
EGPRS1900	512	2	1849.98	-18.65	-13	PASS
EGPRS1900	810	2	1910.00	-17.36	-13	PASS

Test Graphs

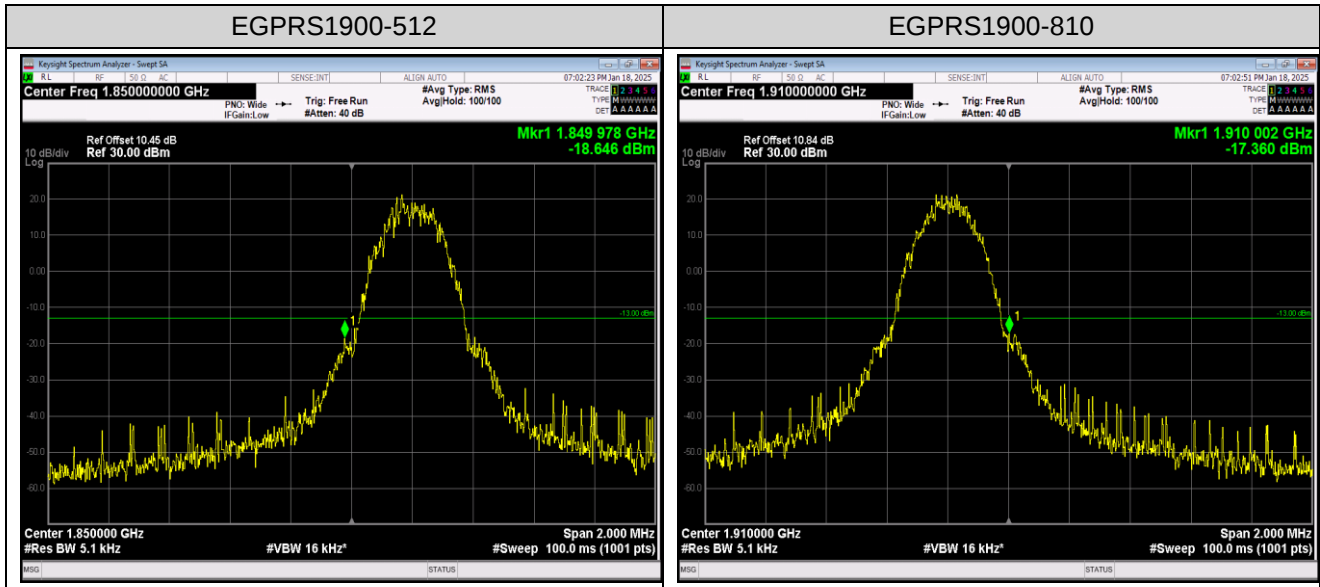


JianYan Testing Group Shenzhen Co., Ltd.

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.: JYTSZR2501017



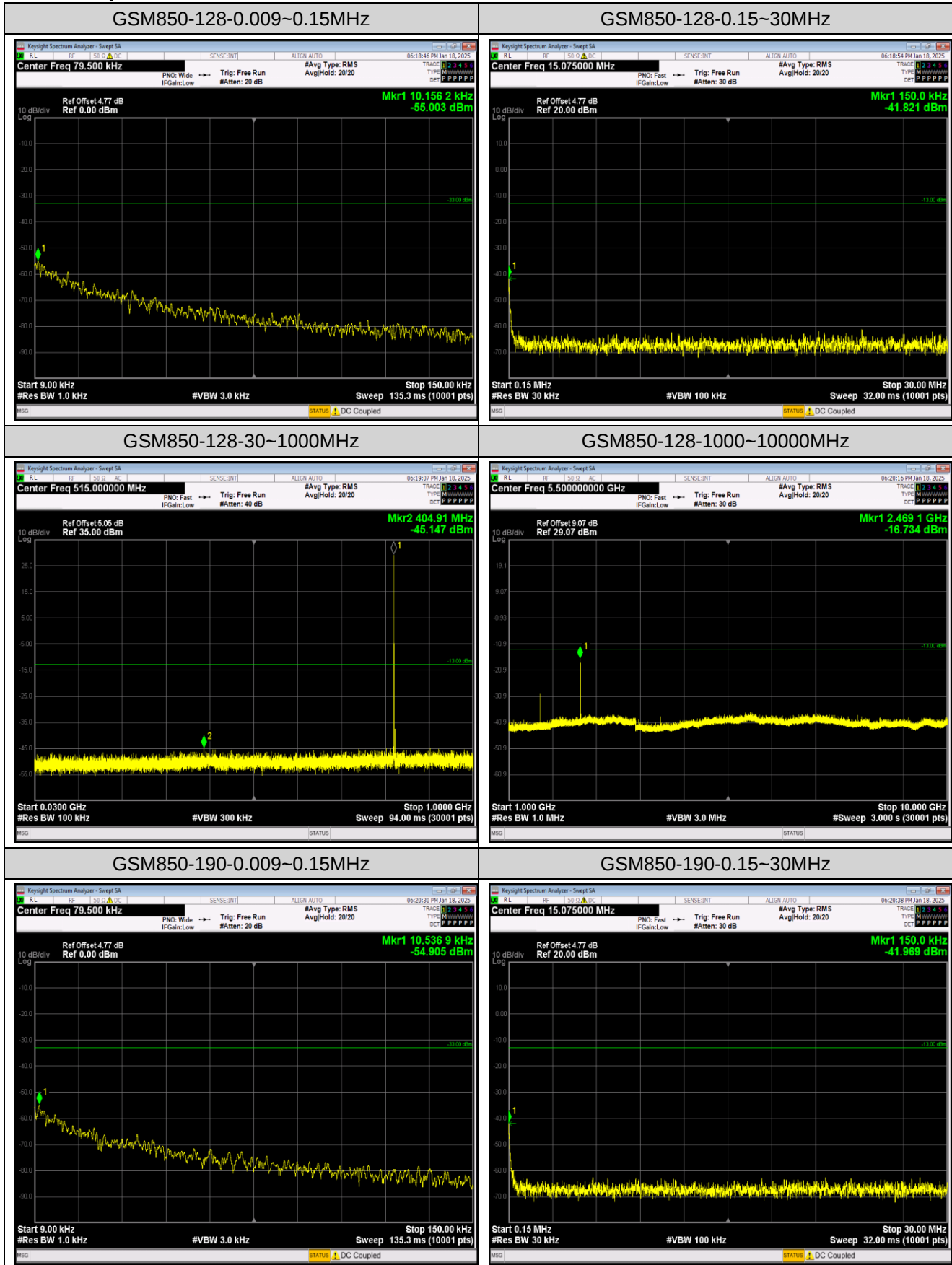
Appendix E: Conducted Spurious Emission

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	-33	PASS
GSM850	128	5	0.15~30MHz	0.15	-41.82	-13	PASS
GSM850	128	5	30~1000MHz	404.91	-45.15	-13	PASS
GSM850	128	5	1000~10000MHz	2469.1	-16.73	-13	PASS
GSM850	190	5	0.009~0.15MHz	0.01	-54.91	-33	PASS
GSM850	190	5	0.15~30MHz	0.15	-41.97	-13	PASS
GSM850	190	5	30~1000MHz	945.42	-45.17	-13	PASS
GSM850	190	5	1000~10000MHz	2506.9	-15.17	-13	PASS
GSM850	251	5	0.009~0.15MHz	0.01	-53.84	-33	PASS
GSM850	251	5	0.15~30MHz	0.15	-42.26	-13	PASS
GSM850	251	5	30~1000MHz	964.82	-43.62	-13	PASS
GSM850	251	5	1000~10000MHz	2545.9	-18.76	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-55.52	-43	PASS
GSM1900	512	0	0.15~30MHz	0.15	-42.89	-23	PASS
GSM1900	512	0	30~1000MHz	735.45	-44.63	-13	PASS
GSM1900	512	0	1000~18000MHz	16213.87	-21.78	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-53.84	-43	PASS
GSM1900	661	0	0.15~30MHz	0.15	-42.8	-23	PASS
GSM1900	661	0	30~1000MHz	952.76	-44.92	-13	PASS
GSM1900	661	0	1000~18000MHz	16990.2	-21.76	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-54.34	-43	PASS
GSM1900	810	0	0.15~30MHz	0.15	-44.25	-23	PASS
GSM1900	810	0	30~1000MHz	482.83	-45.37	-13	PASS
GSM1900	810	0	1000~18000MHz	16956.2	-22.05	-13	PASS

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

Test Graphs

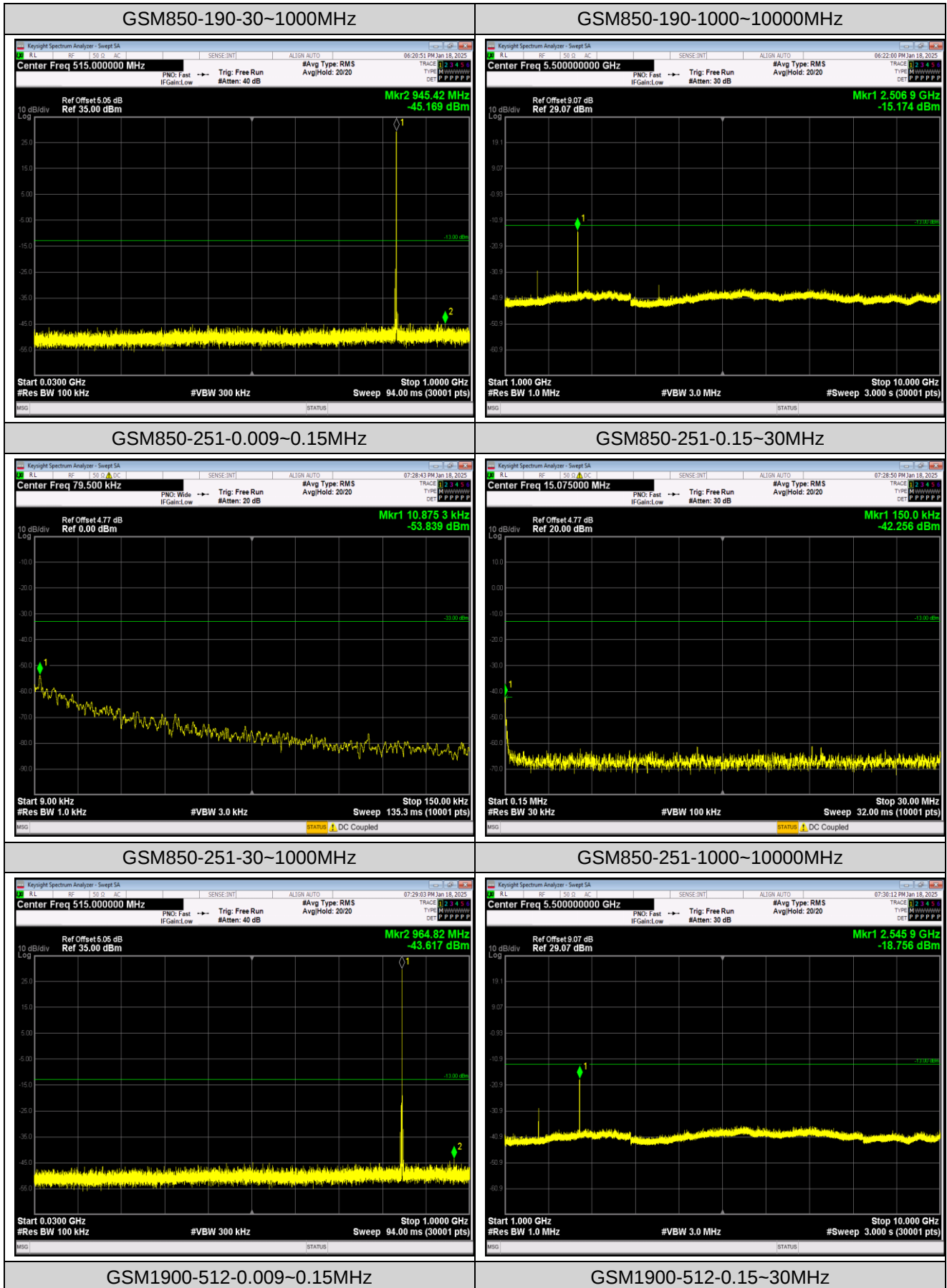


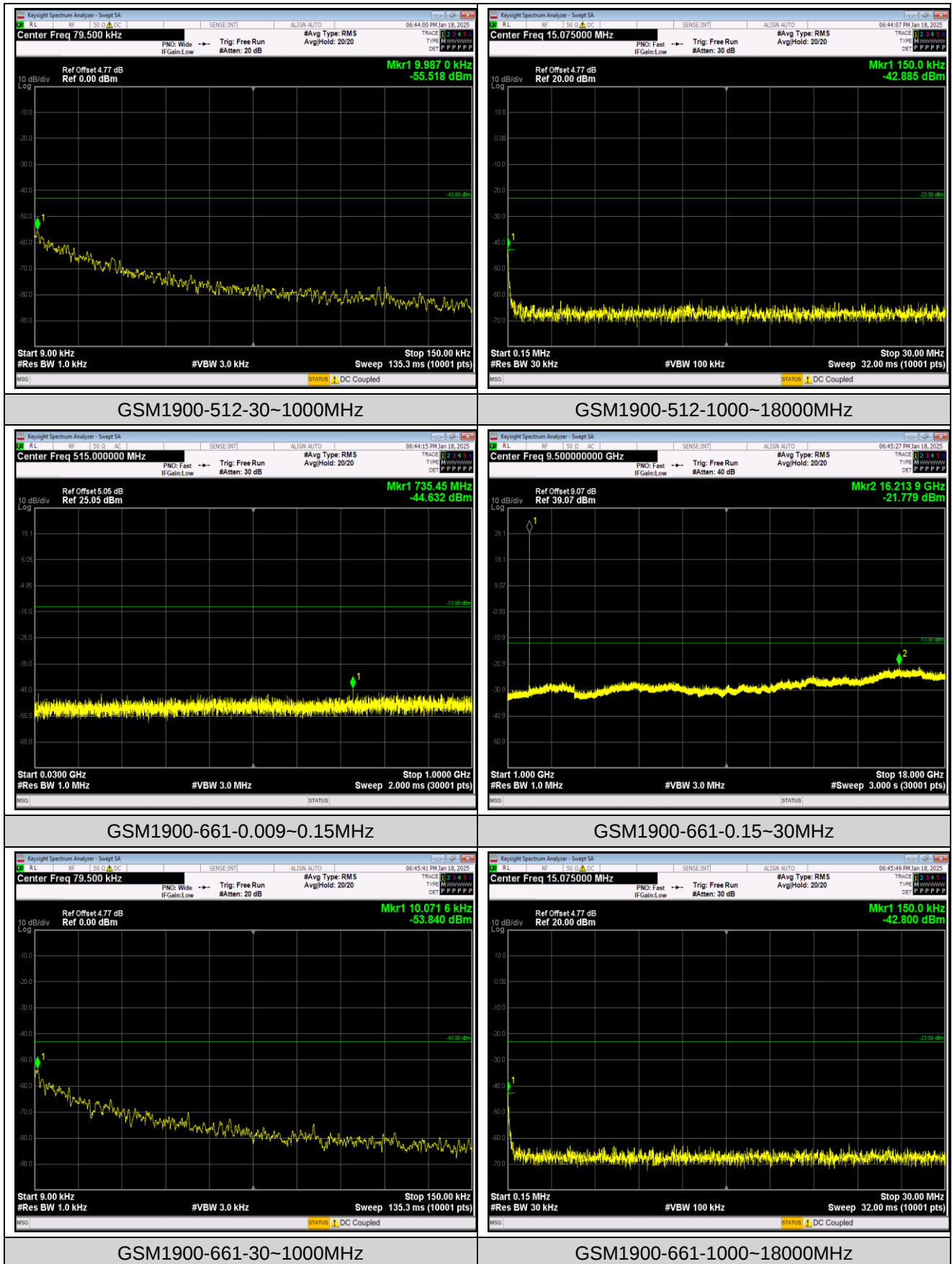
JianYan Testing Group Shenzhen Co., Ltd.

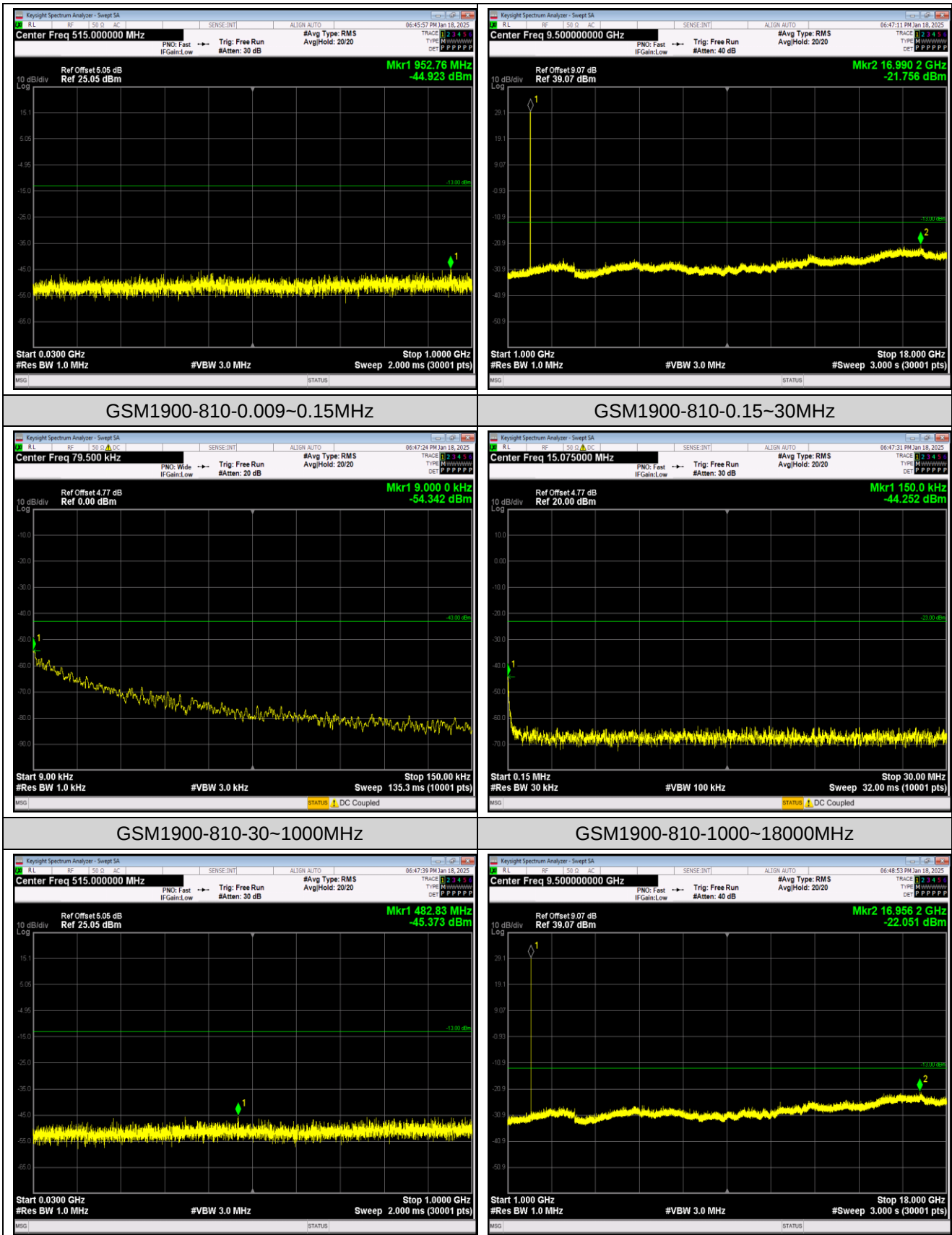
No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

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

Project No.: JYTSZR2501017







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	-6.04	-0.007220	±2.5	Pass
	-20	-8.20	-0.009802		
	-10	-5.55	-0.006634		
	0	-11.66	-0.013937		
	10	-15.34	-0.018336		
	20	0.65	0.000777		
	30	1.00	0.001195		
	40	-2.84	-0.003395		
	50	-3.49	-0.004172		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.40	-6.72	-0.008033	±2.5	Pass
	3.70	9.59	0.011463		
	4.20	12.27	0.014667		
Remark: All channel had been tested, but only the worst case data displayed in this report.					

Reference Frequency: EGPRS850 Middle channel=190 Frequency=836.6MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	-4.10	-0.004901	±2.5	Pass
	-20	6.30	0.007530		
	-10	8.23	0.009837		
	0	2.97	0.003550		
	10	9.78	0.011690		
	20	1.49	0.001781		
	30	0.39	0.000466		
	40	6.65	0.007949		
	50	2.52	0.003012		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.40	8.23	0.009837	±2.5	Pass
	3.70	-0.52	-0.000622		
	4.20	1.26	0.001506		
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	-9.17	-0.004878	Within authorized band for PCS 1900	Pass
	-20	4.46	0.002372		
	-10	13.66	0.007266		
	0	7.81	0.004154		
	10	3.55	0.001888		
	20	-10.33	-0.005495		
	30	-0.55	-0.000293		
	40	-2.42	-0.001287		
	50	-0.94	-0.000500		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.40	-10.49	-0.005580	Within authorized band for PCS 1900	Pass
	3.70	-21.86	-0.011628		
	4.20	5.62	0.002989		
Remark: All channel had been tested, but only the worst case data displayed in this report.					

Reference Frequency: EGPRS1900 Middle channel=661 Frequency=1880MHz					
Temperature					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	-19.60	-0.010426	Within authorized band for PCS 1900	Pass
	-20	0.03	0.000016		
	-10	-21.02	-0.011181		
	0	-11.85	-0.006303		
	10	-4.46	-0.002372		
	20	-21.92	-0.011660		
	30	-13.17	-0.007005		
	40	-11.59	-0.006165		
	50	11.30	0.006011		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.40	-5.10	-0.002713	Within authorized band for PCS 1900	Pass
	3.70	4.97	0.002644		
	4.20	-19.69	-0.010473		
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
EGPRS850	190	PASS	PASS
GSM1900	661	PASS	PASS
EGPRS1900	661	PASS	PASS

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

Test Graphs

