

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	33.74	31.16	38.45	PASS
GSM850	190	5	33.76	31.18	38.45	PASS
GSM850	251	5	33.42	30.84	38.45	PASS
GSM1900	512	0	31.30	30.94	33.00	PASS
GSM1900	661	0	31.42	31.06	33.00	PASS
GSM1900	810	0	31.55	31.19	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	5	1	33.73	31.15	38.45	PASS
GPRS850	128	5	2	31.59	29.01	38.45	PASS
GPRS850	128	5	3	29.70	27.12	38.45	PASS
GPRS850	128	5	4	27.48	24.9	38.45	PASS
GPRS850	190	5	1	33.74	31.16	38.45	PASS
GPRS850	190	5	2	31.63	29.05	38.45	PASS
GPRS850	190	5	3	29.74	27.16	38.45	PASS
GPRS850	190	5	4	27.55	24.97	38.45	PASS
GPRS850	251	5	1	33.39	30.81	38.45	PASS
GPRS850	251	5	2	31.31	28.73	38.45	PASS
GPRS850	251	5	3	29.43	26.85	38.45	PASS
GPRS850	251	5	4	27.27	24.69	38.45	PASS
GPRS1900	512	0	1	31.29	30.93	33.00	PASS
GPRS1900	512	0	2	29.14	28.78	33.00	PASS
GPRS1900	512	0	3	27.55	27.19	33.00	PASS
GPRS1900	512	0	4	25.60	25.24	33.00	PASS
GPRS1900	661	0	1	31.46	31.1	33.00	PASS
GPRS1900	661	0	2	29.22	28.86	33.00	PASS
GPRS1900	661	0	3	27.63	27.27	33.00	PASS
GPRS1900	661	0	4	25.67	25.31	33.00	PASS
GPRS1900	810	0	1	31.58	31.22	33.00	PASS
GPRS1900	810	0	2	29.29	28.93	33.00	PASS
GPRS1900	810	0	3	27.68	27.32	33.00	PASS
GPRS1900	810	0	4	25.71	25.35	33.00	PASS

Remark: EIRP (dBm) = Conducted power (dBm) + Antenna Gain (dBi). (For GSM1900)
ERP (dBm) = EIRP (dBm) - 2.15 (dB). (For GSM850)

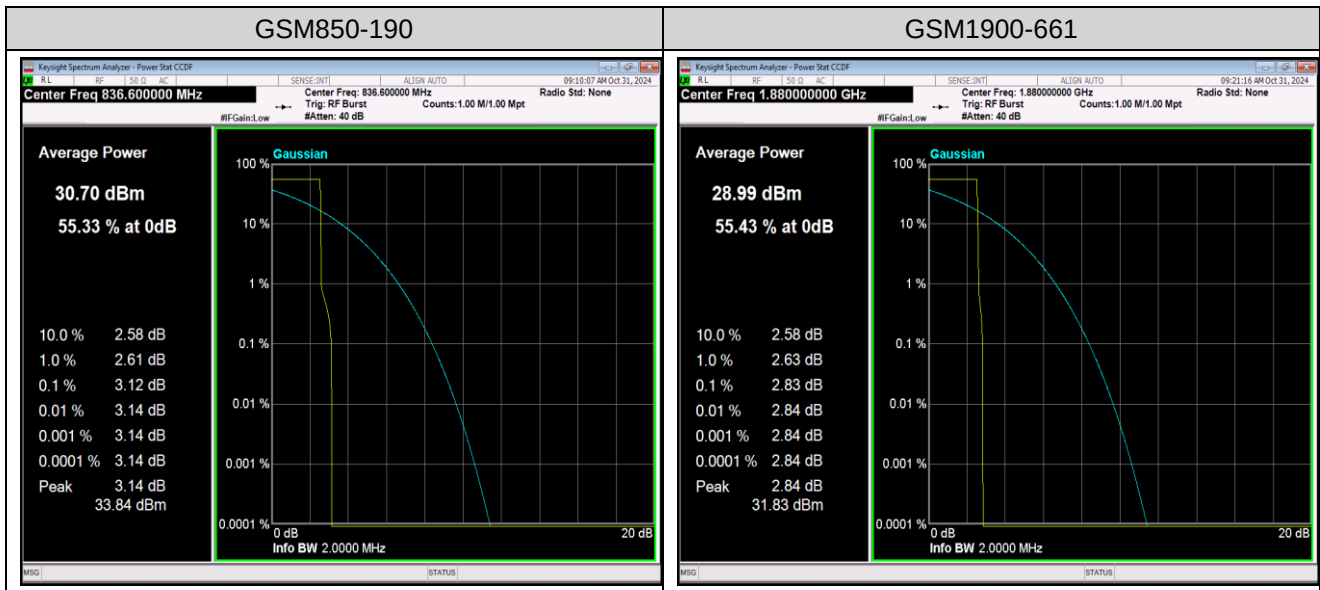
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	PCL	Result(dB)	Limit(dB)	Verdict
GSM850	190	5	3.12	13	PASS
GSM1900	661	0	2.83	13	PASS

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

Test Graphs

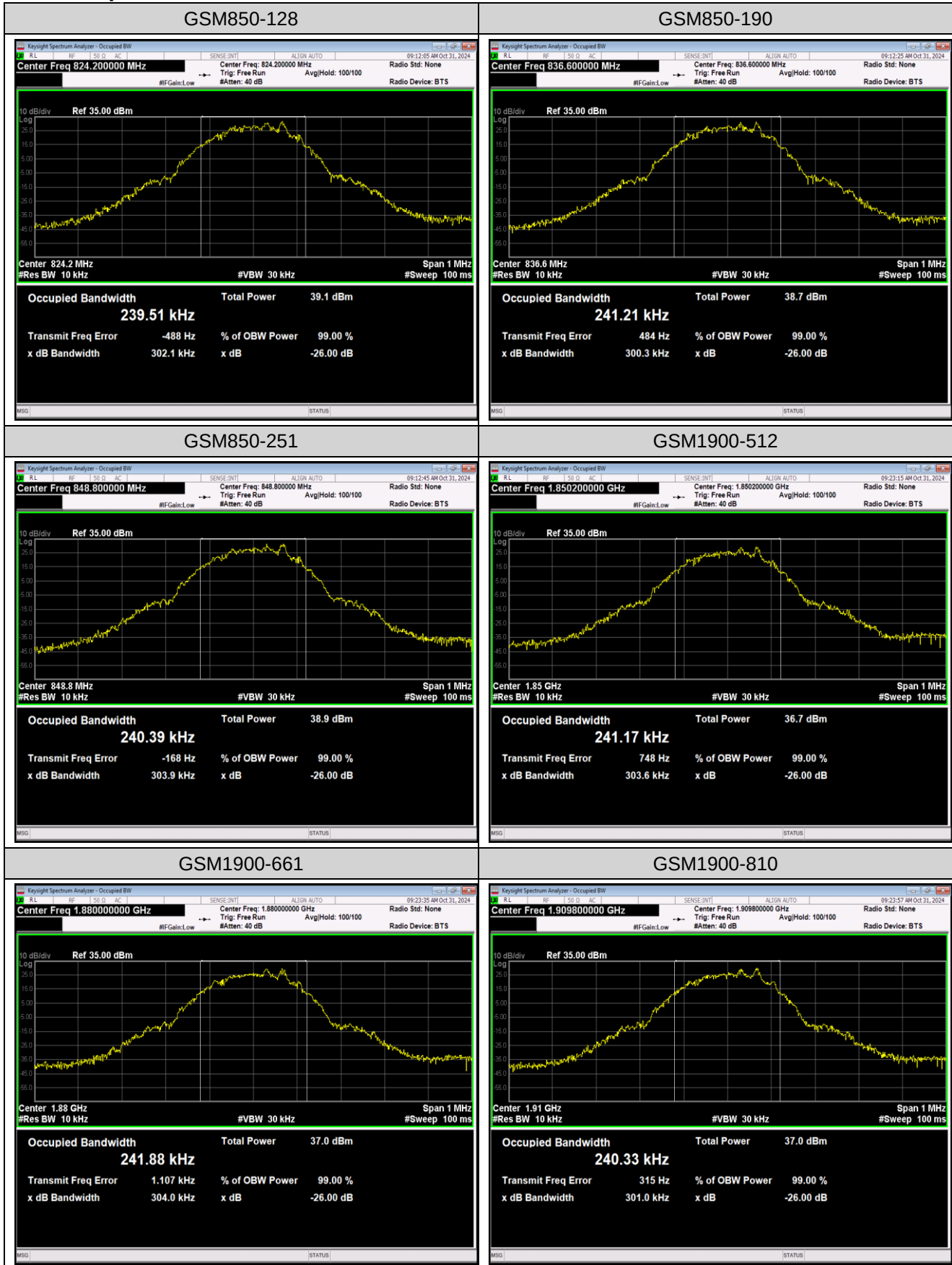


Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	5	0.23951	0.3021	---	PASS
GSM850	190	5	0.24121	0.3003	---	PASS
GSM850	251	5	0.24039	0.3039	---	PASS
GSM1900	512	0	0.24117	0.3036	---	PASS
GSM1900	661	0	0.24188	0.3040	---	PASS
GSM1900	810	0	0.24033	0.3010	---	PASS

Test Graphs

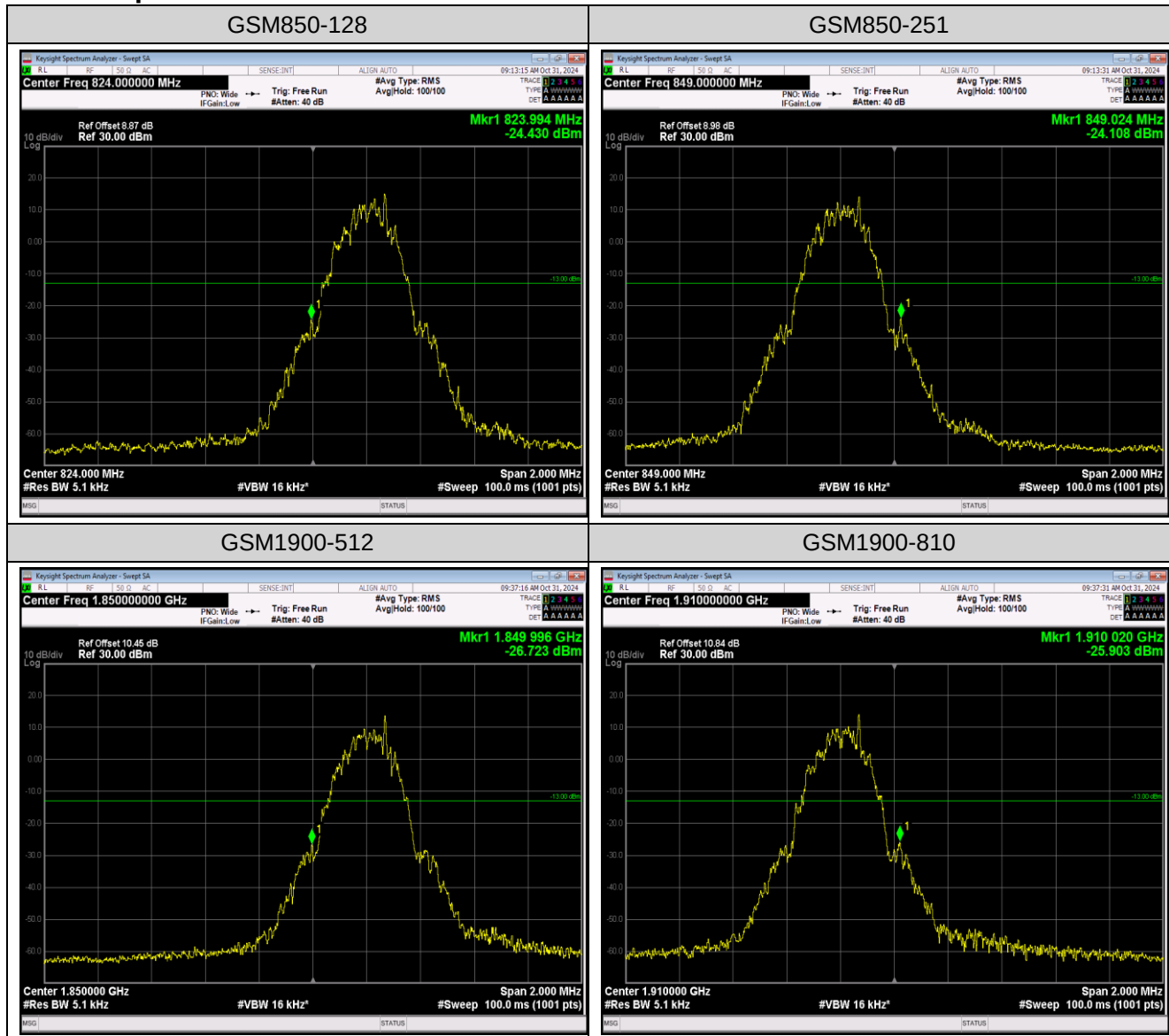


Appendix D: Band Edge

Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	5	823.99	-24.43	-13	PASS
GSM850	251	5	849.02	-24.11	-13	PASS
GSM1900	512	0	1850.00	-26.72	-13	PASS
GSM1900	810	0	1910.02	-25.90	-13	PASS

Test Graphs



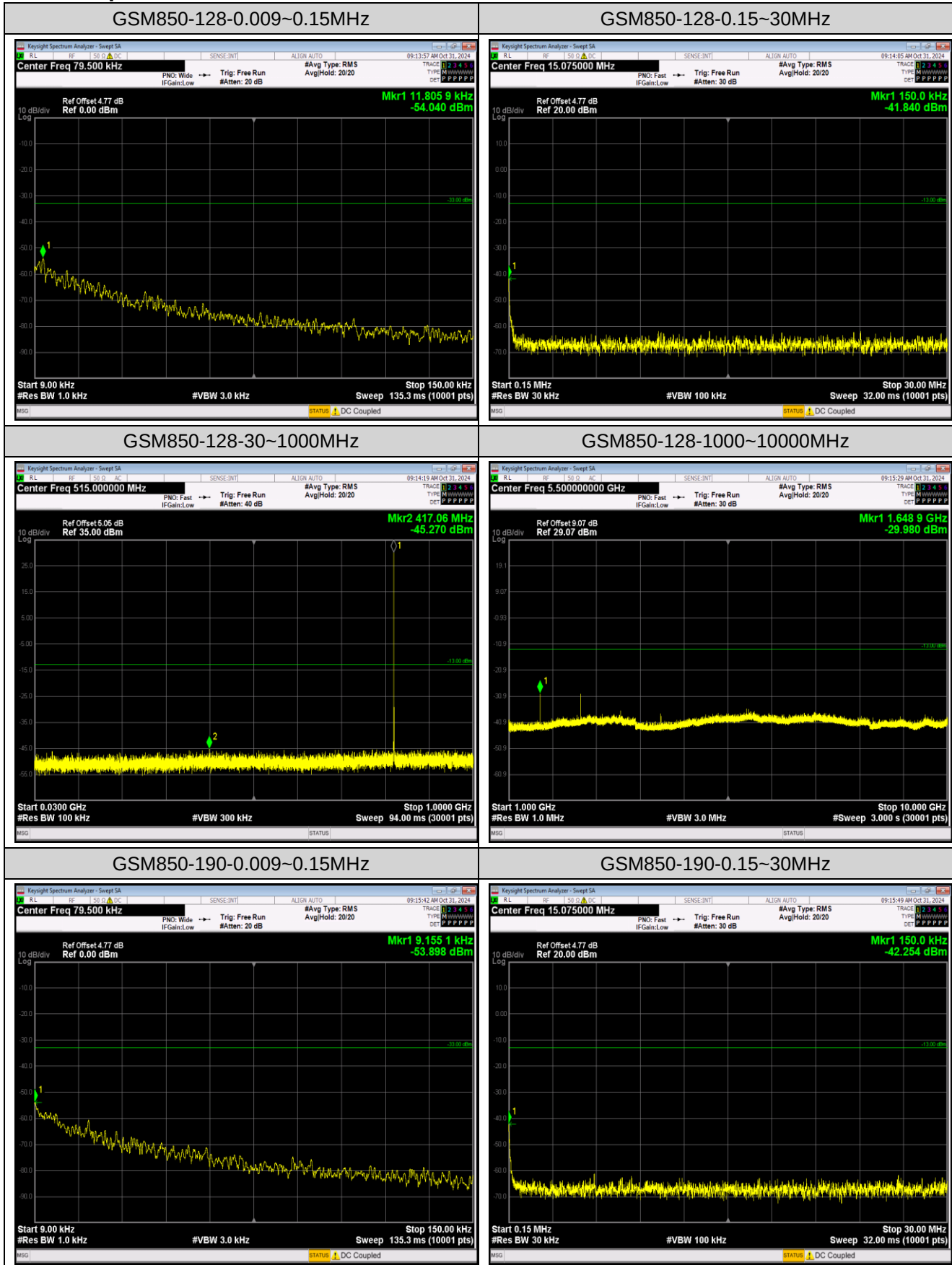
Appendix E: Conducted Spurious Emission

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	-54.04	-33	PASS
GSM850	128	5	0.15~30MHz	0.15	-41.84	-13	PASS
GSM850	128	5	30~1000MHz	417.06	-45.27	-13	PASS
GSM850	128	5	1000~10000MHz	1648.9	-29.98	-13	PASS
GSM850	190	5	0.009~0.15MHz	0.01	-53.9	-33	PASS
GSM850	190	5	0.15~30MHz	0.15	-42.25	-13	PASS
GSM850	190	5	30~1000MHz	428.28	-45	-13	PASS
GSM850	190	5	1000~10000MHz	1672.9	-29.92	-13	PASS
GSM850	251	5	0.009~0.15MHz	0.01	-54.79	-33	PASS
GSM850	251	5	0.15~30MHz	0.17	-42.59	-13	PASS
GSM850	251	5	30~1000MHz	741.3	-44.78	-13	PASS
GSM850	251	5	1000~10000MHz	2546.5	-29.64	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-55.7	-43	PASS
GSM1900	512	0	0.15~30MHz	0.15	-45.09	-23	PASS
GSM1900	512	0	30~1000MHz	937.18	-44.87	-13	PASS
GSM1900	512	0	1000~18000MHz	15787.17	-22.25	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-54.27	-43	PASS
GSM1900	661	0	0.15~30MHz	0.15	-41.61	-23	PASS
GSM1900	661	0	30~1000MHz	744.5	-45.41	-13	PASS
GSM1900	661	0	1000~18000MHz	16162.87	-22.45	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-55.3	-43	PASS
GSM1900	810	0	0.15~30MHz	0.15	-43	-23	PASS
GSM1900	810	0	30~1000MHz	812.47	-45.49	-13	PASS
GSM1900	810	0	1000~18000MHz	17002.1	-21.93	-13	PASS

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

Test Graphs

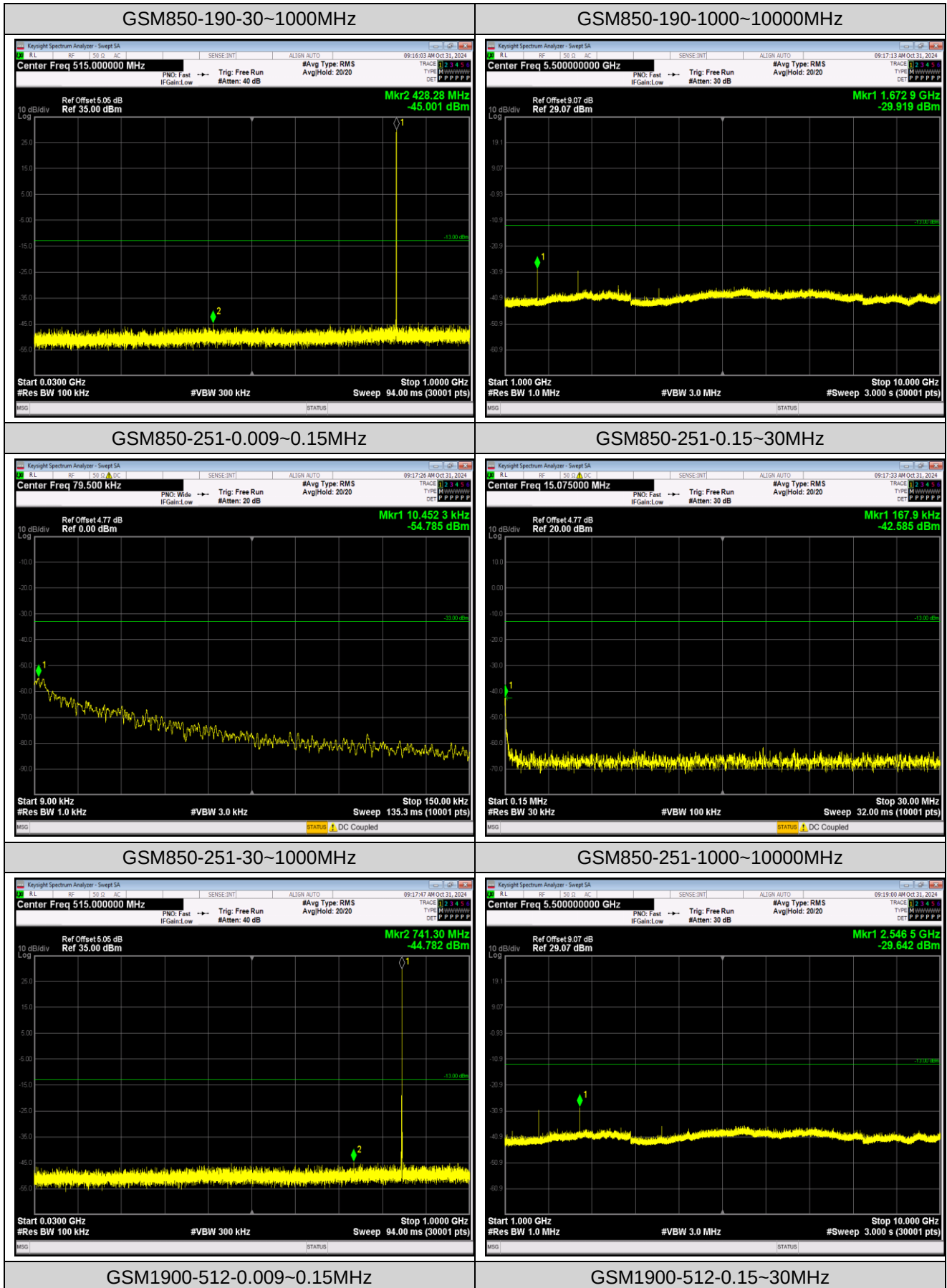


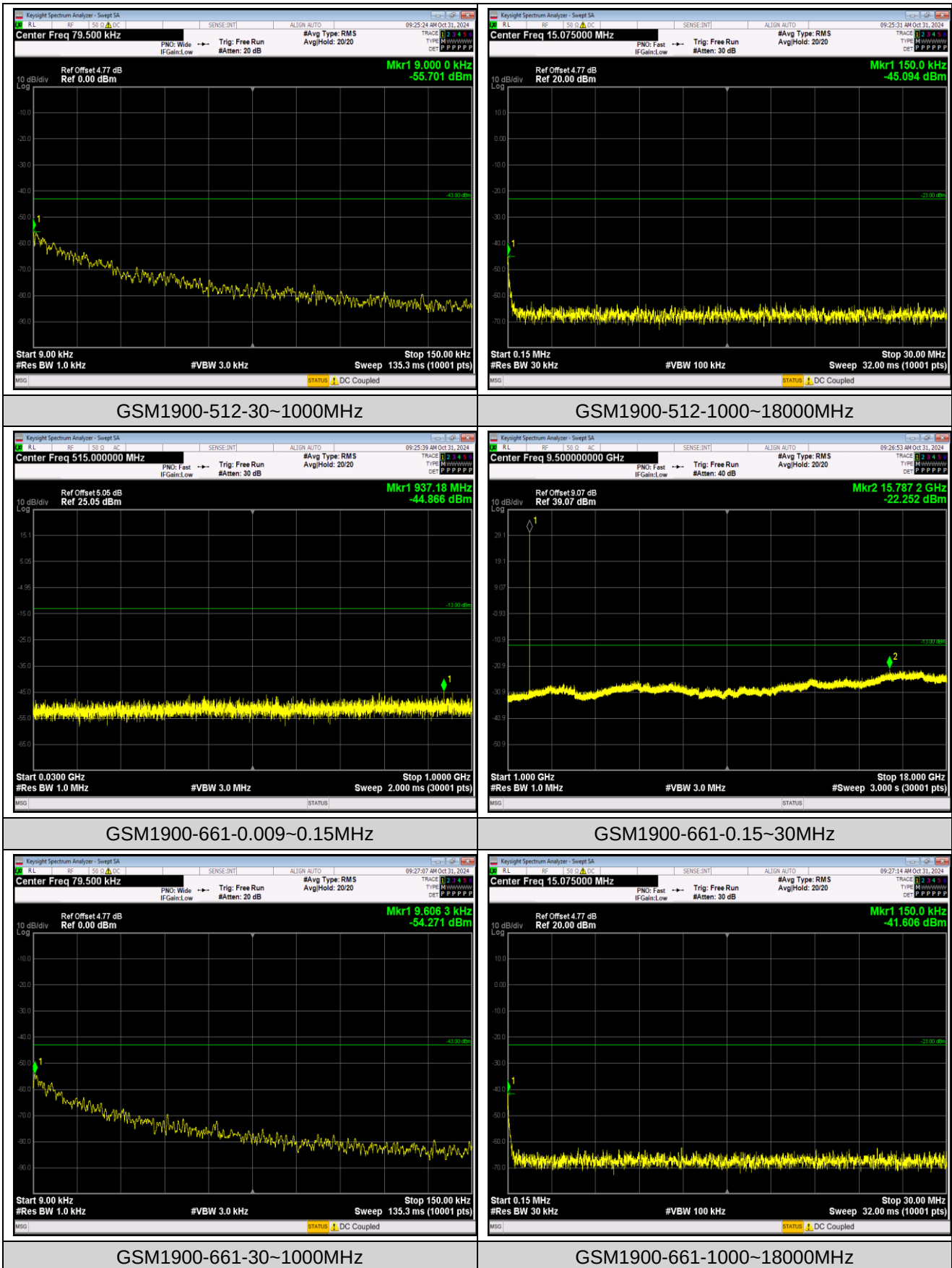
JianYan Testing Group Shenzhen Co., Ltd.

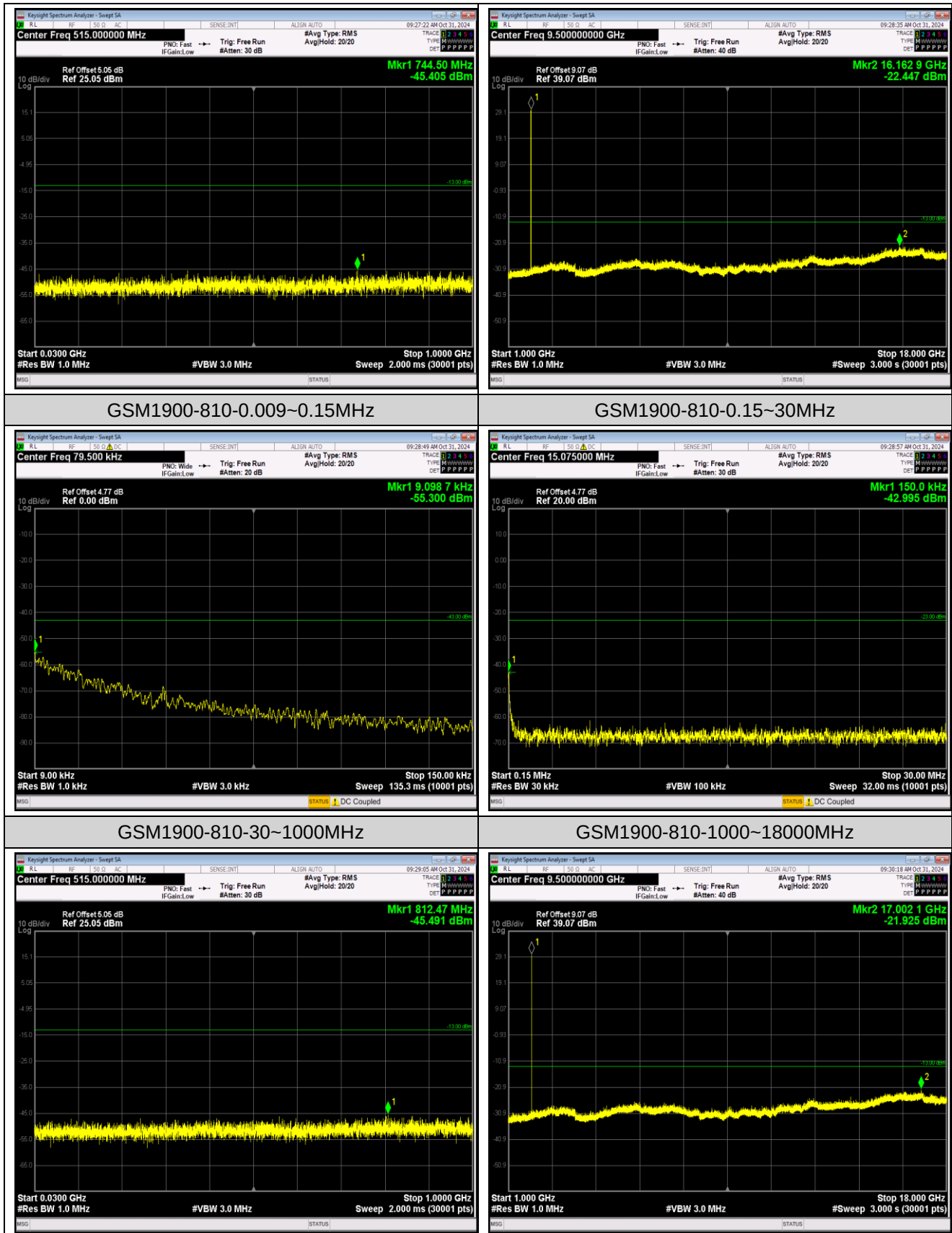
No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

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

Project No.: JYTSZR2410053







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	6.75	0.008068	±2.5	Pass
	-20	-0.26	-0.000311		
	-10	-1.45	-0.001733		
	0	-0.87	-0.001040		
	10	7.17	0.008570		
	20	1.26	0.001506		
	30	0.06	0.000072		
	40	7.68	0.009180		
	50	9.23	0.011033		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	2.75	-2.94	-0.003514	±2.5	Pass
	3.70	8.72	0.010423		
	4.20	7.01	0.008379		
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	10.30	0.005479	Within authorized band for PCS 1900	Pass
	-20	1.97	0.001048		
	-10	11.33	0.006027		
	0	1.39	0.000739		
	10	-5.62	-0.002989		
	20	1.19	0.000633		
	30	-2.71	-0.001441		
	40	-3.45	-0.001835		
	50	3.33	0.001771		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	2.75	12.20	0.006489	Within authorized band for PCS 1900	Pass
	3.70	1.61	0.000856		
	4.20	9.17	0.004878		
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

