

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	32.12	28.38	38.45	PASS
GSM850	190	5	32.03	28.29	38.45	PASS
GSM850	251	5	32.21	28.47	38.45	PASS
GSM1900	512	0	28.38	28.58	33.00	PASS
GSM1900	661	0	28.84	29.04	33.00	PASS
GSM1900	810	0	29.07	29.27	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	5	1	32.13	28.39	38.45	PASS
GPRS850	128	5	2	30.06	26.32	38.45	PASS
GPRS850	128	5	3	28.18	24.44	38.45	PASS
GPRS850	128	5	4	26.04	22.3	38.45	PASS
GPRS850	190	5	1	31.99	28.25	38.45	PASS
GPRS850	190	5	2	29.97	26.23	38.45	PASS
GPRS850	190	5	3	28.07	24.33	38.45	PASS
GPRS850	190	5	4	25.88	22.14	38.45	PASS
GPRS850	251	5	1	32.14	28.4	38.45	PASS
GPRS850	251	5	2	30.31	26.57	38.45	PASS
GPRS850	251	5	3	28.42	24.68	38.45	PASS
GPRS850	251	5	4	26.19	22.45	38.45	PASS
GPRS1900	512	0	1	28.39	28.59	33.00	PASS
GPRS1900	512	0	2	26.54	26.74	33.00	PASS
GPRS1900	512	0	3	24.99	25.19	33.00	PASS
GPRS1900	512	0	4	22.80	23	33.00	PASS
GPRS1900	661	0	1	28.78	28.98	33.00	PASS
GPRS1900	661	0	2	26.70	26.9	33.00	PASS
GPRS1900	661	0	3	25.18	25.38	33.00	PASS
GPRS1900	661	0	4	22.96	23.16	33.00	PASS
GPRS1900	810	0	1	29.03	29.23	33.00	PASS
GPRS1900	810	0	2	26.69	26.89	33.00	PASS
GPRS1900	810	0	3	25.05	25.25	33.00	PASS
GPRS1900	810	0	4	22.79	22.99	33.00	PASS

Remark: $EIRP\ (dBm) = \text{Conducted power}\ (dBm) + \text{Antenna Gain}\ (dBi)$. (For GSM1900)

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

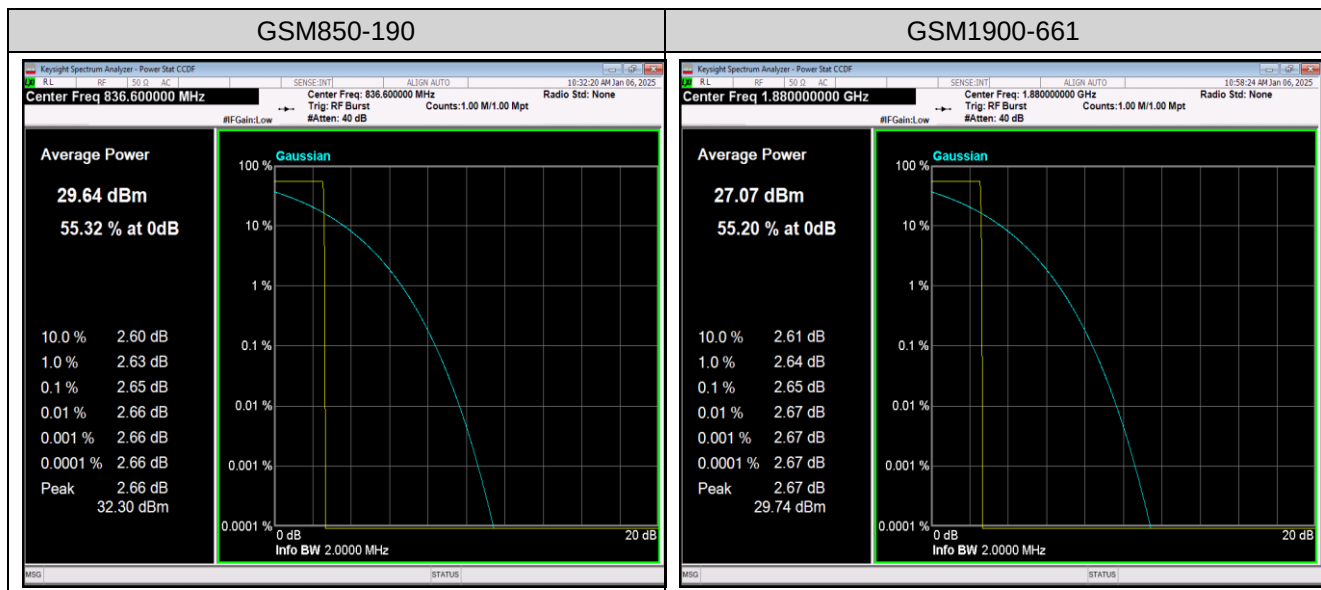
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	PCL	Result(dB)	Limit(dB)	Verdict
GSM850	190	5	2.65	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

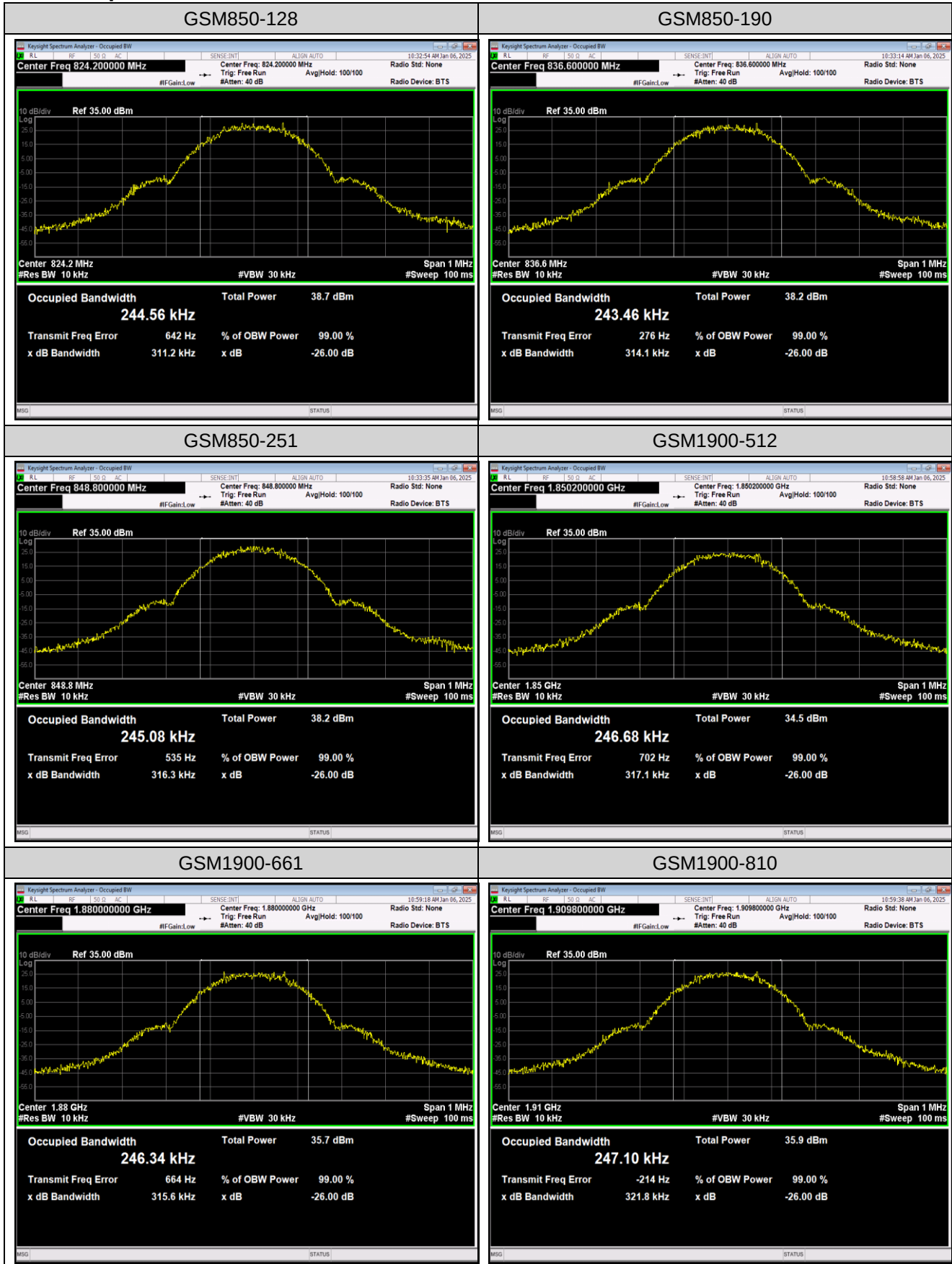


Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	5	0.24456	0.3112	---	PASS
GSM850	190	5	0.24346	0.3141	---	PASS
GSM850	251	5	0.24508	0.3163	---	PASS
GSM1900	512	0	0.24668	0.3171	---	PASS
GSM1900	661	0	0.24634	0.3156	---	PASS
GSM1900	810	0	0.24710	0.3218	---	PASS

Test Graphs

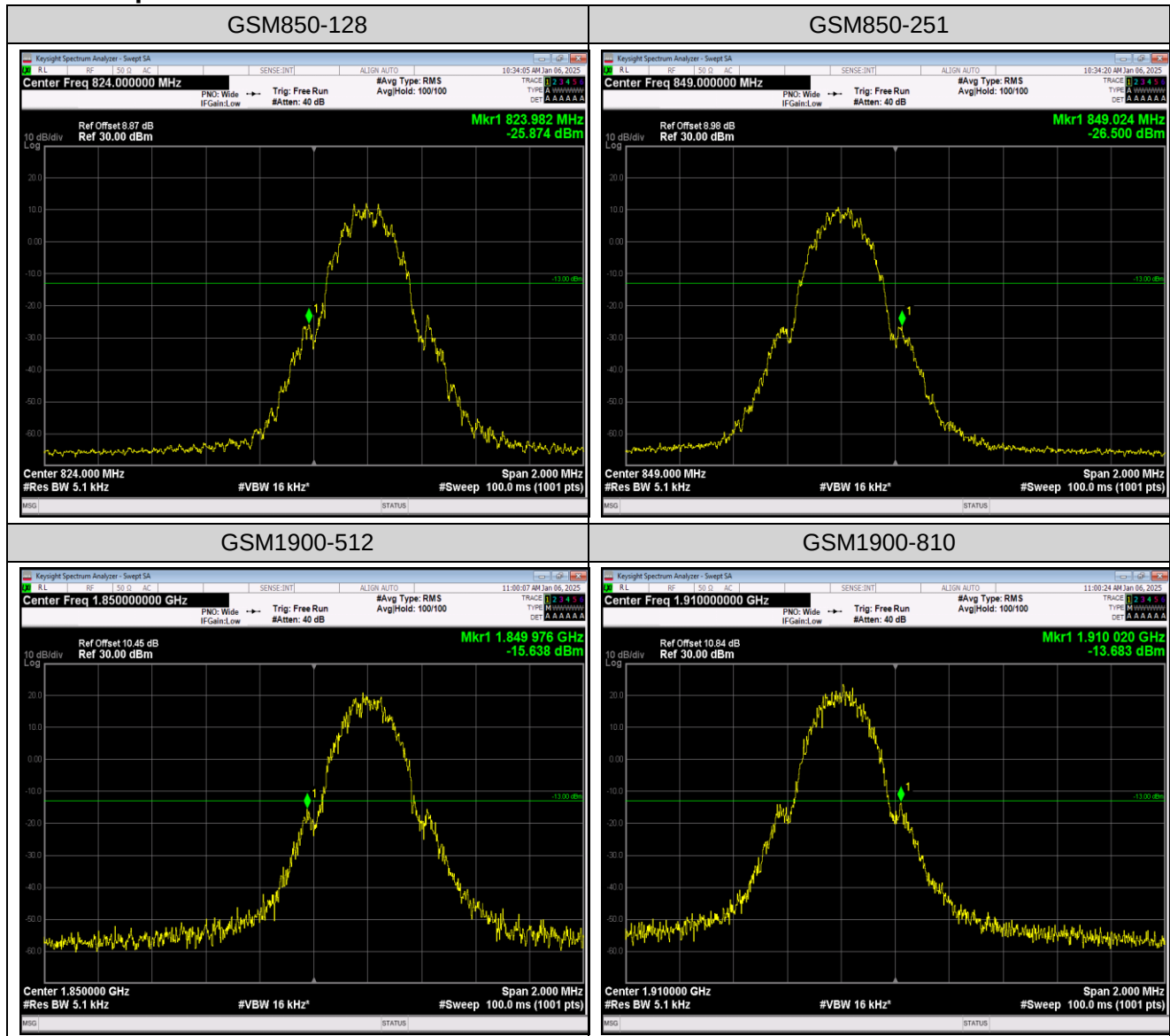


Appendix D: Band Edge

Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	5	823.98	-25.87	-13	PASS
GSM850	251	5	849.02	-26.50	-13	PASS
GSM1900	512	0	1849.98	-15.64	-13	PASS
GSM1900	810	0	1910.02	-13.68	-13	PASS

Test Graphs



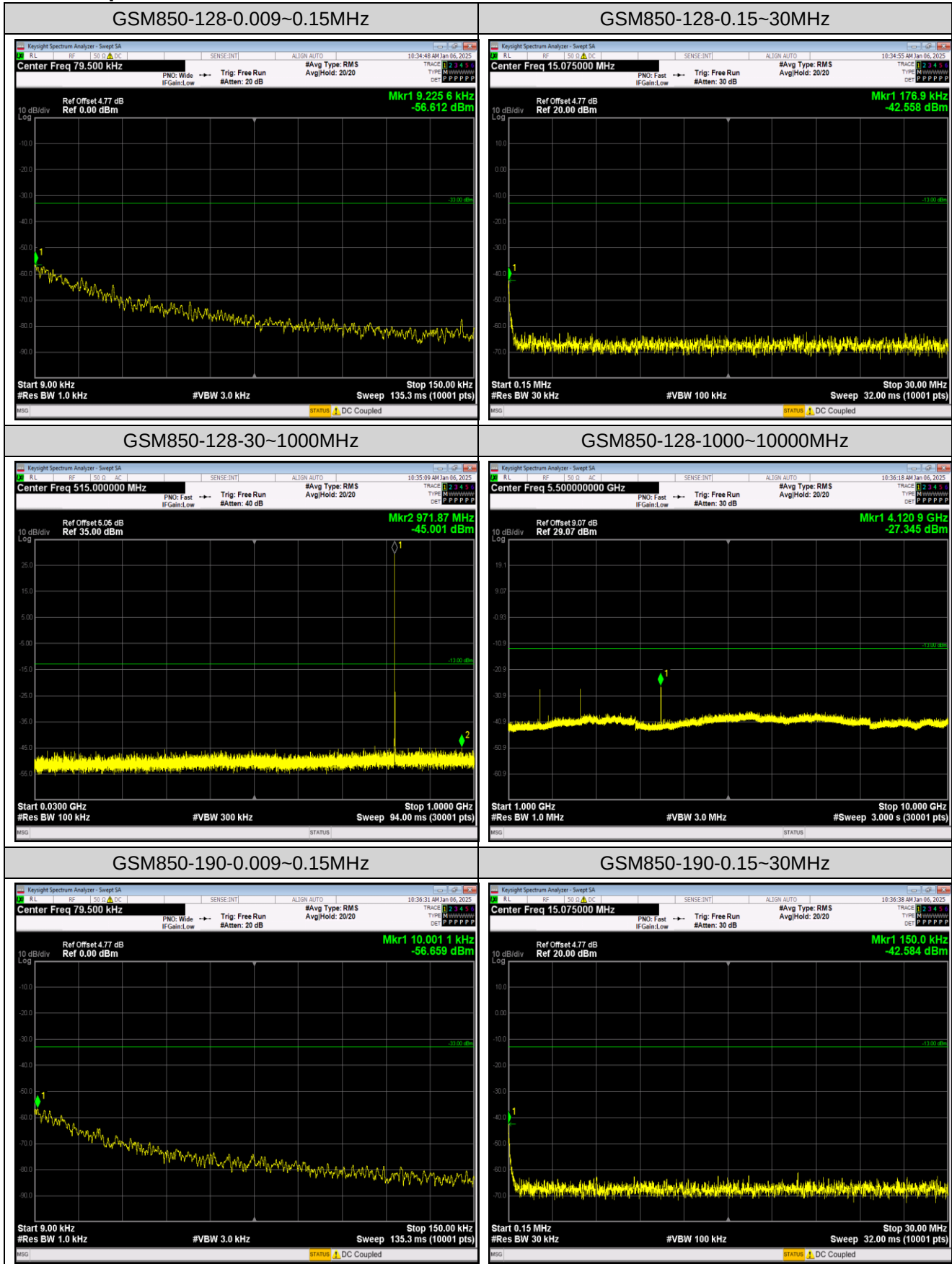
Appendix E: Conducted Spurious Emission

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	-56.61	-33	PASS
GSM850	128	5	0.15~30MHz	0.18	-42.56	-13	PASS
GSM850	128	5	30~1000MHz	971.87	-45	-13	PASS
GSM850	128	5	1000~10000MHz	4120.9	-27.35	-13	PASS
GSM850	190	5	0.009~0.15MHz	0.01	-56.66	-33	PASS
GSM850	190	5	0.15~30MHz	0.15	-42.58	-13	PASS
GSM850	190	5	30~1000MHz	708.64	-44.67	-13	PASS
GSM850	190	5	1000~10000MHz	4182.7	-26.03	-13	PASS
GSM850	251	5	0.009~0.15MHz	0.01	-55.97	-33	PASS
GSM850	251	5	0.15~30MHz	0.15	-40.55	-13	PASS
GSM850	251	5	30~1000MHz	459.61	-45.29	-13	PASS
GSM850	251	5	1000~10000MHz	4243.9	-25.43	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-54.88	-43	PASS
GSM1900	512	0	0.15~30MHz	0.15	-39.6	-23	PASS
GSM1900	512	0	30~1000MHz	806.87	-45.52	-13	PASS
GSM1900	512	0	1000~18000MHz	16964.13	-22.56	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-55.54	-43	PASS
GSM1900	661	0	0.15~30MHz	0.15	-42.88	-23	PASS
GSM1900	661	0	30~1000MHz	959.78	-44.27	-13	PASS
GSM1900	661	0	1000~18000MHz	16976.6	-22.3	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-55.88	-43	PASS
GSM1900	810	0	0.15~30MHz	0.15	-45.01	-23	PASS
GSM1900	810	0	30~1000MHz	848.16	-45.53	-13	PASS
GSM1900	810	0	1000~18000MHz	16960.73	-21.68	-13	PASS

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

Test Graphs

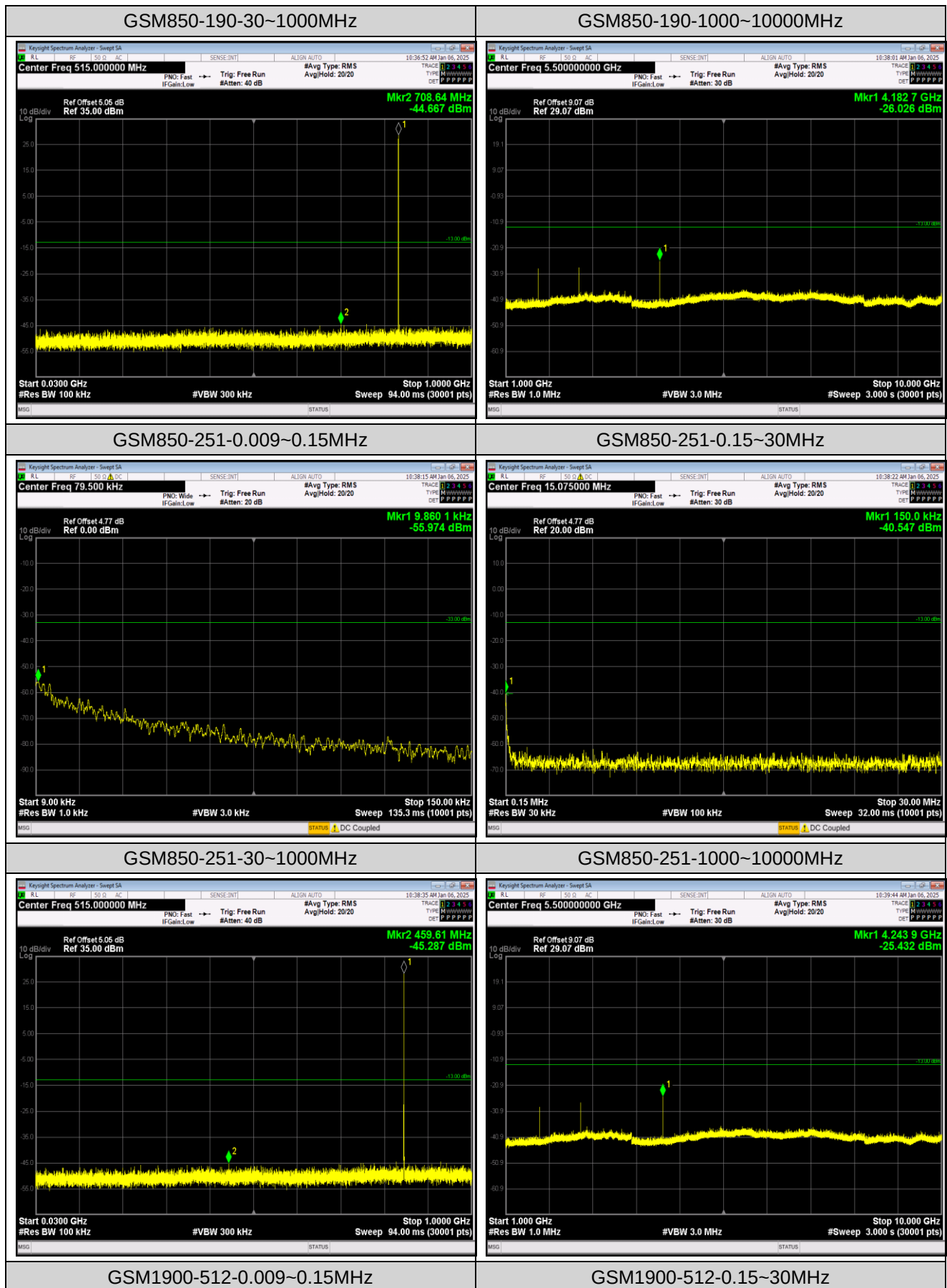


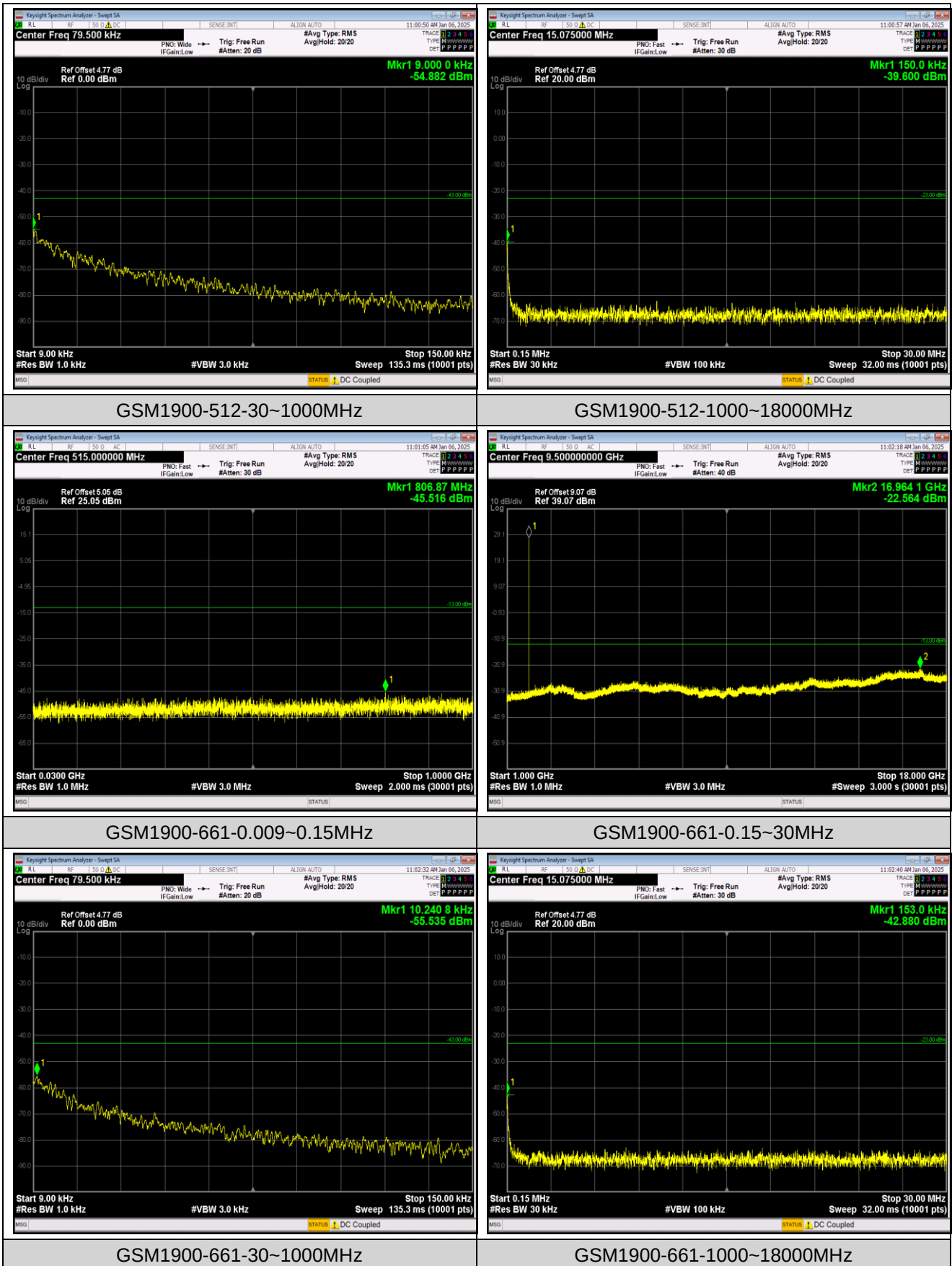
JianYan Testing Group Shenzhen Co., Ltd.

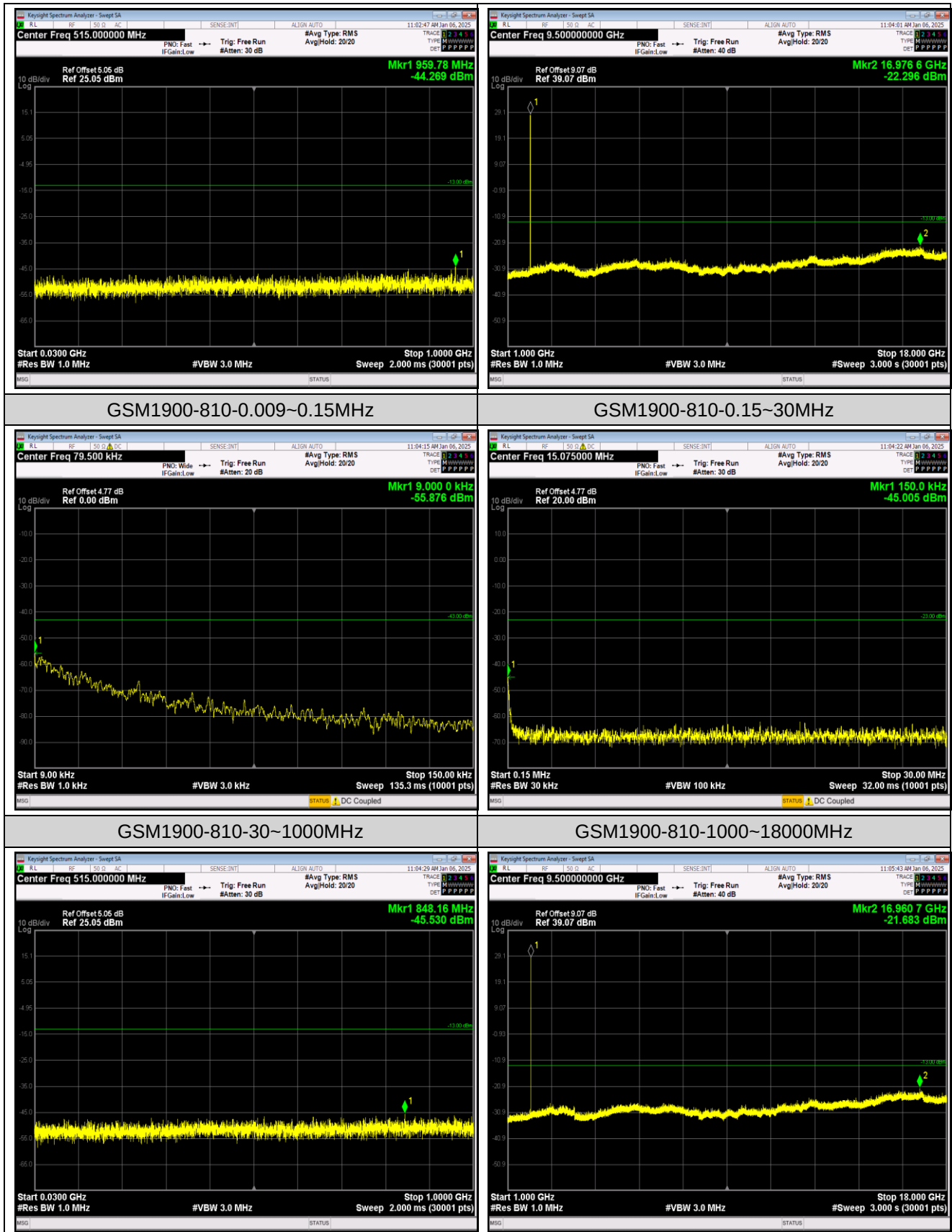
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Appendix F: Frequency Stability

Test Result

Reference Frequency: GSM850 Middle channel=190 Frequency=836.6MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	7.91	0.009455	±2.5	Pass
	-20	7.01	0.008379		
	-10	0.81	0.000968		
	0	-3.10	-0.003705		
	10	11.11	0.013280		
	20	-0.97	-0.001159		
	30	4.62	0.005522		
	40	1.23	0.001470		
	50	3.42	0.004088		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.40	8.04	0.009610	±2.5	Pass
	3.70	-2.42	-0.002893		
	4.20	4.16	0.004973		
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		
3.70	-30	-22.83	-0.012144	Within authorized band for PCS 1900	Pass
	-20	-0.77	-0.000410		
	-10	-6.55	-0.003484		
	0	-8.17	-0.004346		
	10	-4.68	-0.002489		
	20	-11.07	-0.005888		
	30	-14.88	-0.007915		
	40	-4.10	-0.002181		
	50	0.71	0.000378		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.40	-13.59	-0.007229	Within authorized band for PCS 1900	Pass
	3.70	-1.94	-0.001032		
	4.20	-18.18	-0.009670		
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

