

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	33.49	32.11	38.45	PASS
GSM850	190	5	33.65	32.27	38.45	PASS
GSM850	251	5	33.85	32.47	38.45	PASS
GSM1900	512	0	30.37	30.92	33.00	PASS
GSM1900	661	0	30.80	31.35	33.00	PASS
GSM1900	810	0	30.78	31.33	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)

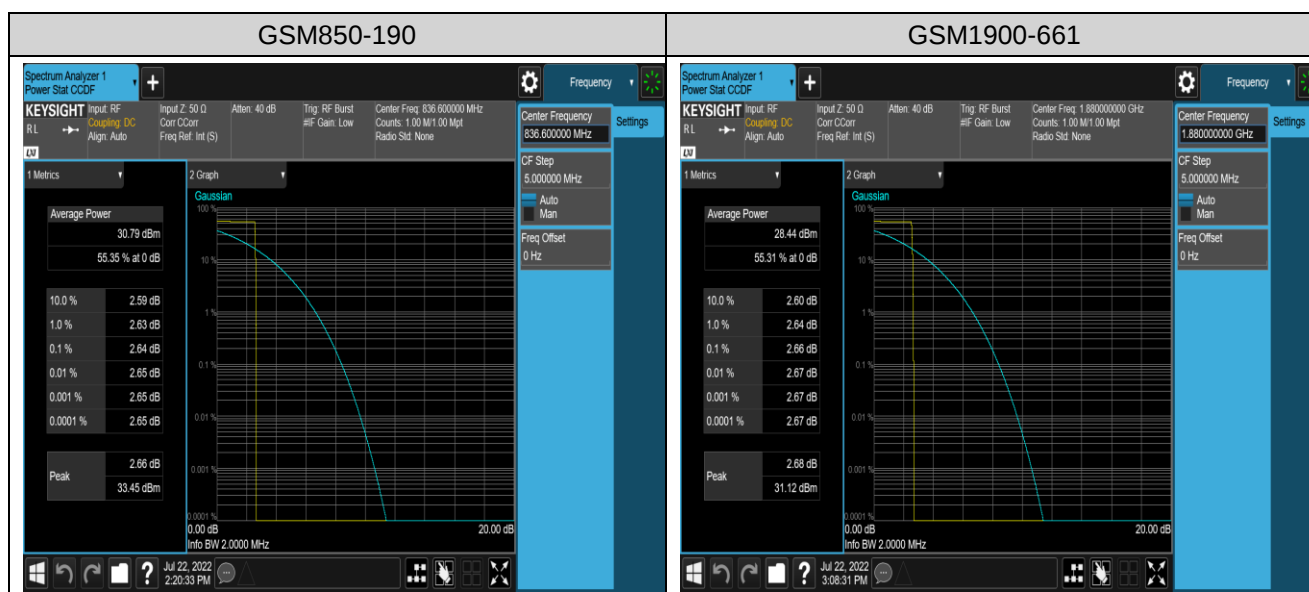
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	PCL	Result(dB)	Limit(dB)	Verdict
GSM850	190	5	2.64	13	PASS
GSM1900	661	0	2.66	13	PASS

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

Test Graphs

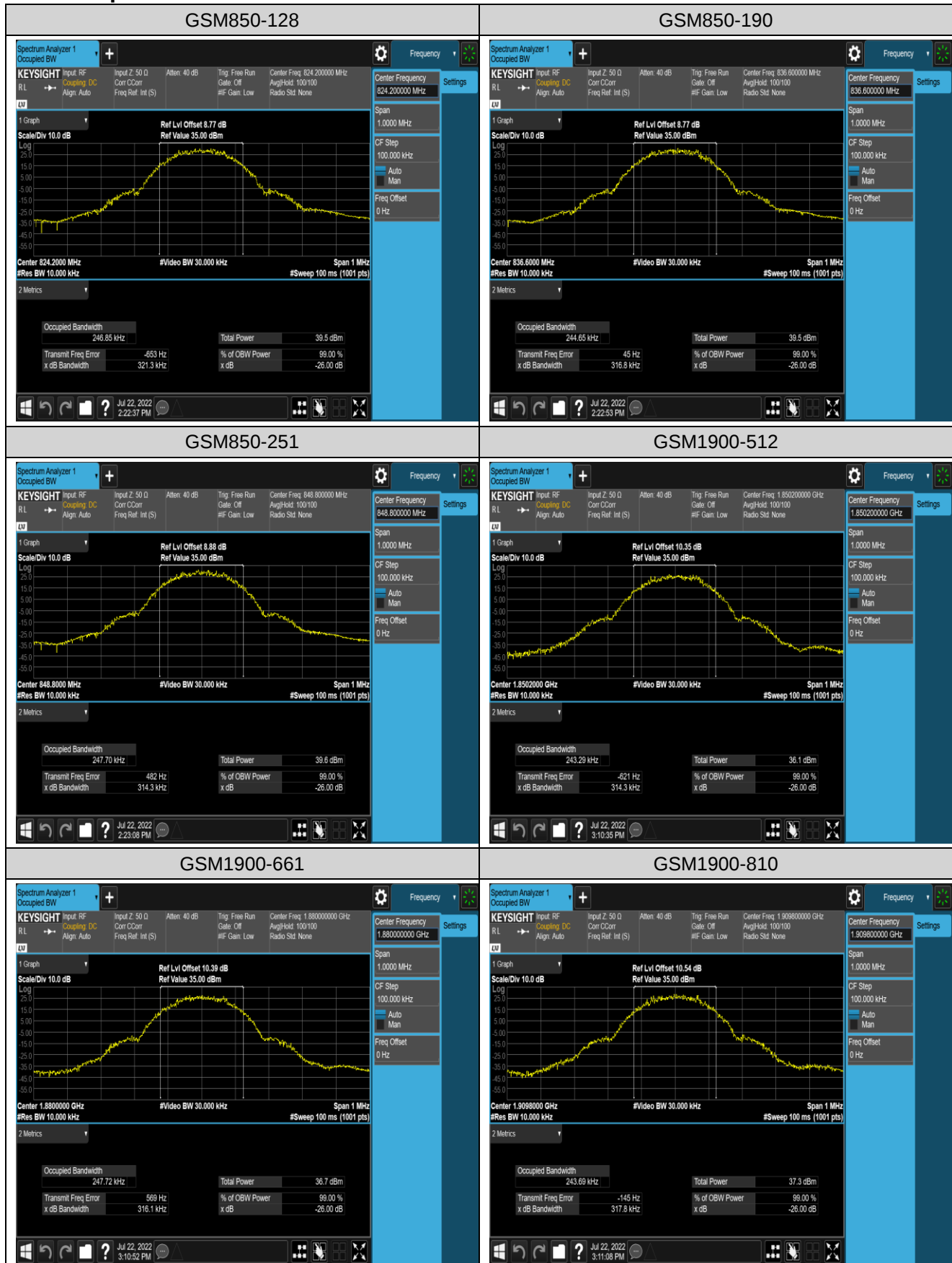


Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	5	0.24685	0.3213	---	PASS
GSM850	190	5	0.24465	0.3168	---	PASS
GSM850	251	5	0.24770	0.3143	---	PASS
GSM1900	512	0	0.24329	0.3143	---	PASS
GSM1900	661	0	0.24772	0.3161	---	PASS
GSM1900	810	0	0.24369	0.3178	---	PASS

Test Graphs



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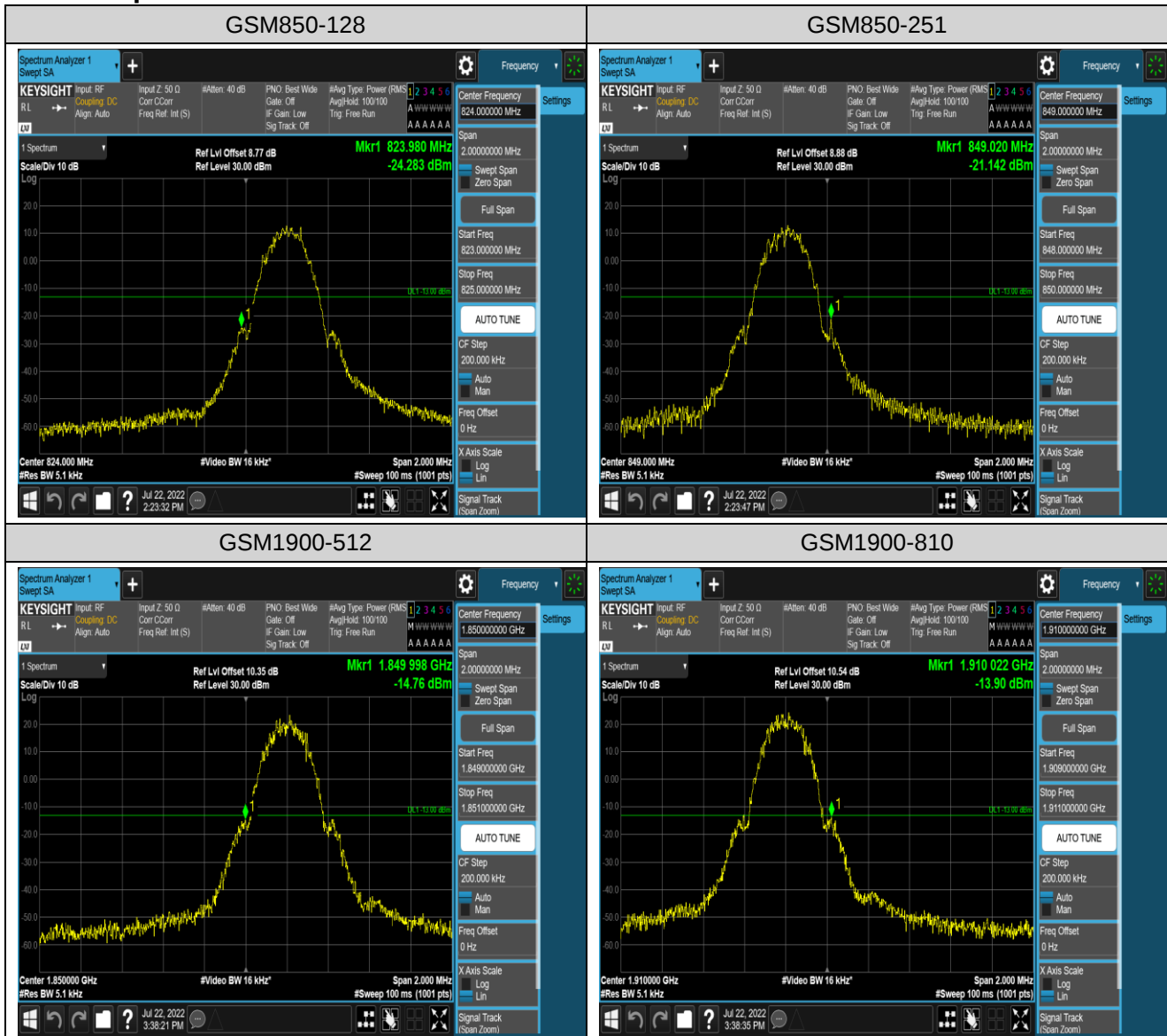
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Appendix D: Band Edge

Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	5	823.98	-24.28	-13	PASS
GSM850	251	5	849.02	-21.14	-13	PASS
GSM1900	512	0	1850.00	-14.76	-13	PASS
GSM1900	810	0	1910.02	-13.90	-13	PASS

Test Graphs



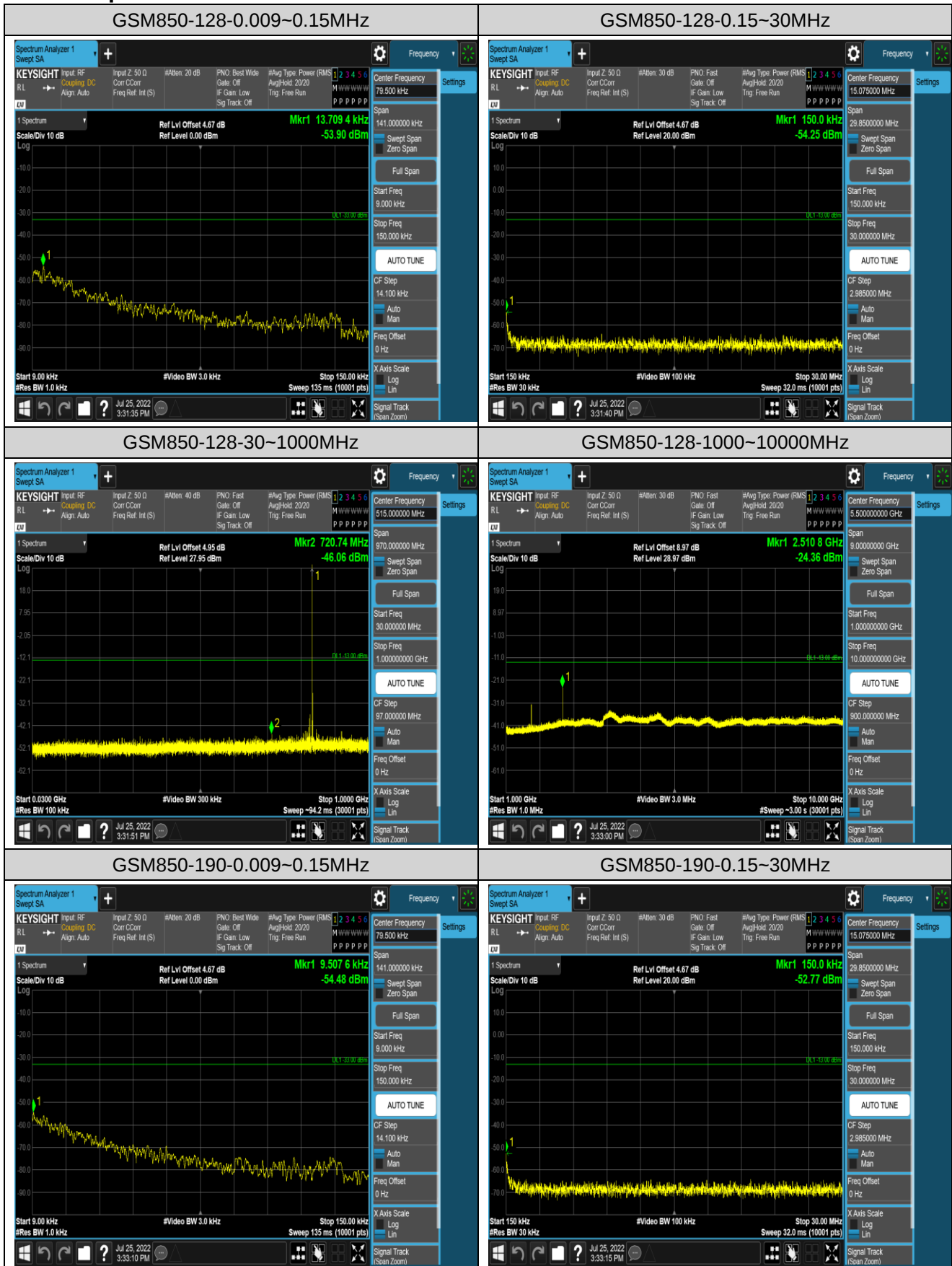
Appendix E: Conducted Spurious Emission

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	-53.9	-33	PASS
GSM850	128	5	0.15~30MHz	0.15	-54.25	-13	PASS
GSM850	128	5	30~1000MHz	720.74	-46.06	-13	PASS
GSM850	128	5	1000~10000MHz	2510.8	-24.36	-13	PASS
GSM850	190	5	0.009~0.15MHz	0.01	-54.48	-33	PASS
GSM850	190	5	0.15~30MHz	0.15	-52.77	-13	PASS
GSM850	190	5	30~1000MHz	736.39	-46.36	-13	PASS
GSM850	190	5	1000~10000MHz	2511.4	-24.43	-13	PASS
GSM850	251	5	0.009~0.15MHz	0.01	-54.57	-33	PASS
GSM850	251	5	0.15~30MHz	0.15	-53.12	-13	PASS
GSM850	251	5	30~1000MHz	399.02	-46.34	-13	PASS
GSM850	251	5	1000~10000MHz	2510.8	-24.5	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-56.97	-43	PASS
GSM1900	512	0	0.15~30MHz	0.17	-52.63	-23	PASS
GSM1900	512	0	30~1000MHz	726.69	-46.97	-13	PASS
GSM1900	512	0	1000~18000MHz	3768.73	-33.61	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-56.66	-43	PASS
GSM1900	661	0	0.15~30MHz	0.15	-52.64	-23	PASS
GSM1900	661	0	30~1000MHz	550.08	-47.28	-13	PASS
GSM1900	661	0	1000~18000MHz	3798.77	-34.65	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-57.27	-43	PASS
GSM1900	810	0	0.15~30MHz	0.15	-50.97	-23	PASS
GSM1900	810	0	30~1000MHz	947.59	-46.58	-13	PASS
GSM1900	810	0	1000~18000MHz	3808.97	-33.84	-13	PASS

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

Test Graphs



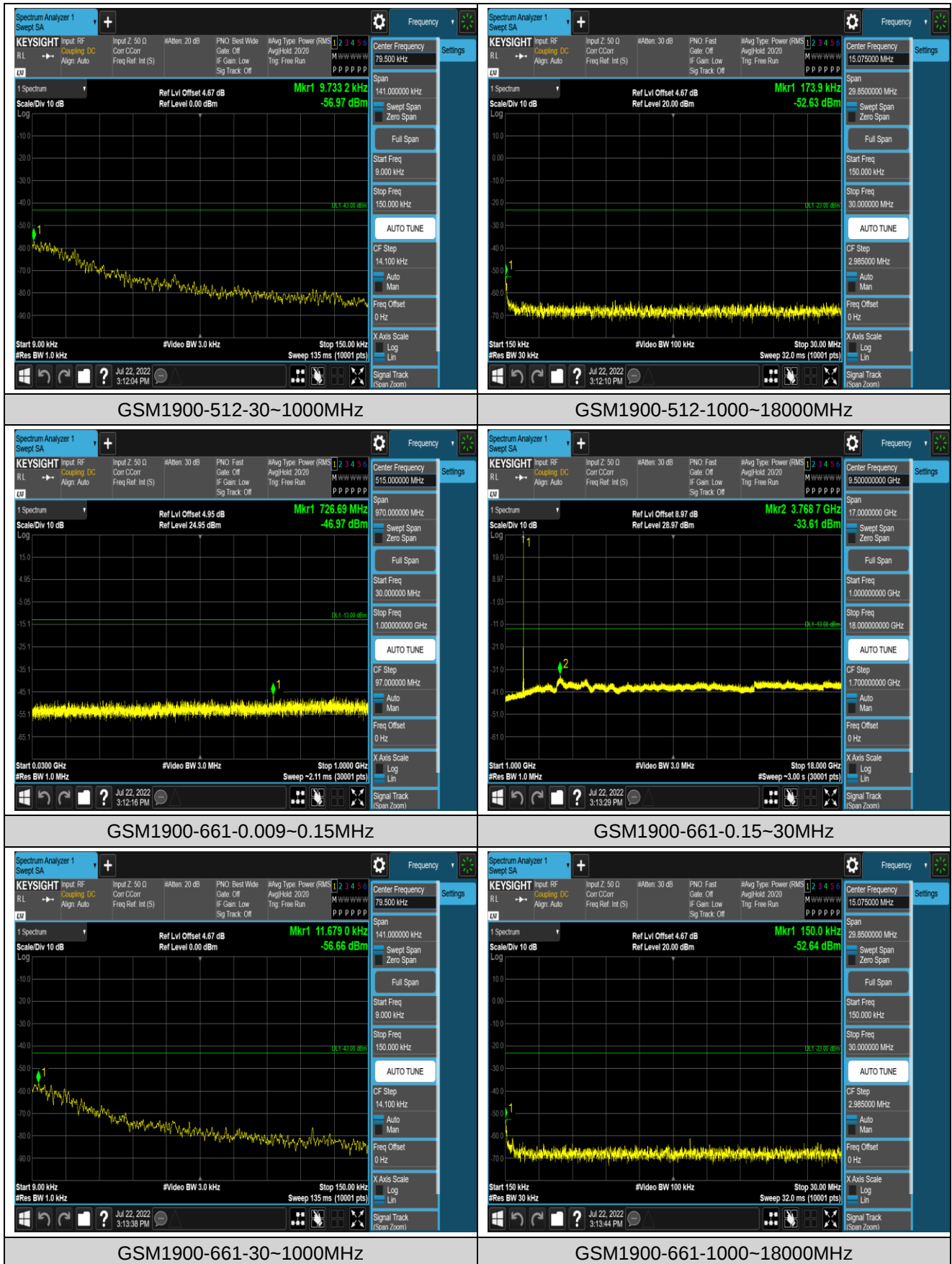
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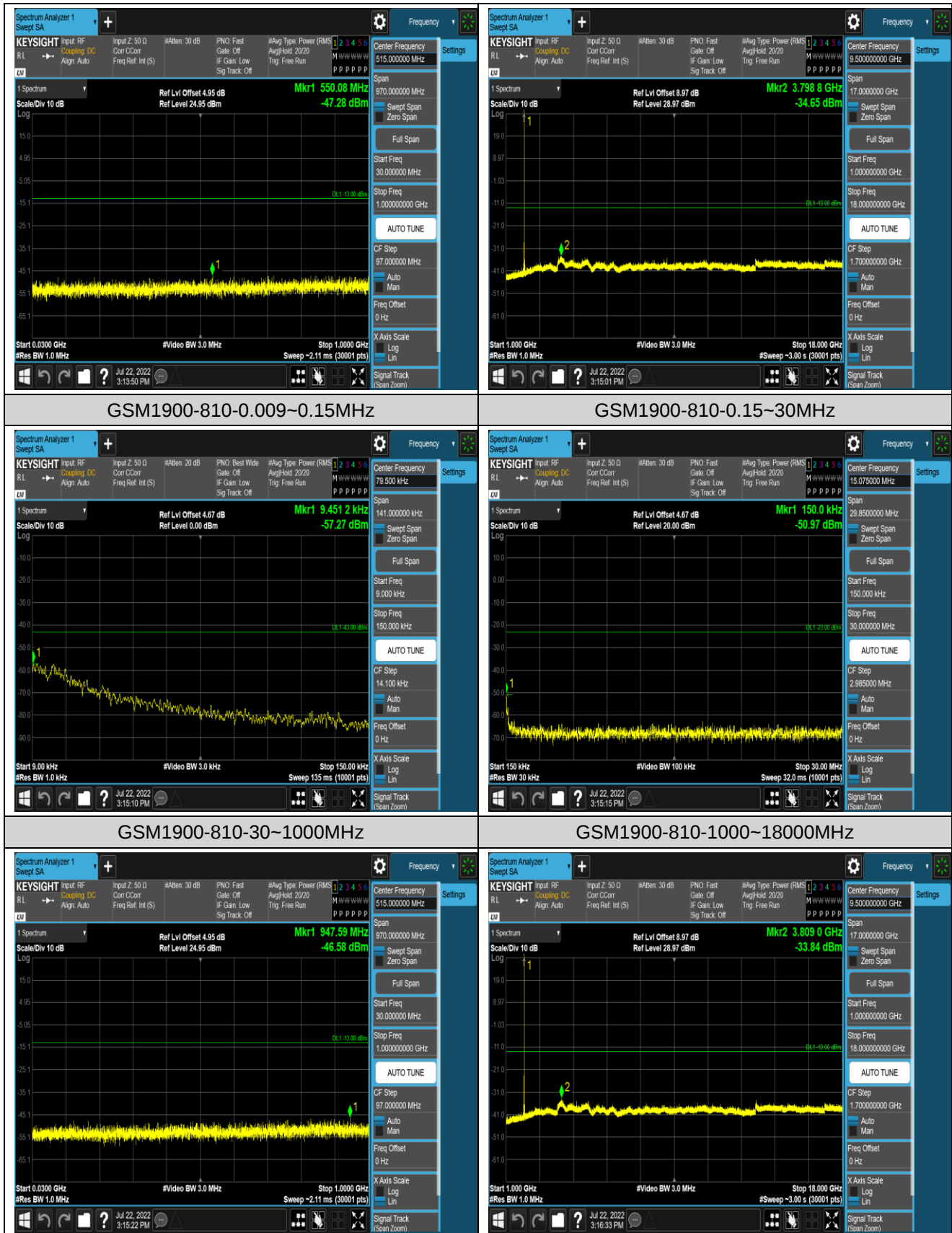
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Appendix F: Frequency Stability

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	23.44	0.028018	±2.5	Pass
	-20	21.60	0.025819		
	-10	19.47	0.023273		
	0	17.34	0.020727		
	10	13.46	0.016089		
	20	16.43	0.019639		
	30	16.59	0.019830		
	40	14.92	0.017834		
	50	16.79	0.020069		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	19.66	0.023500	±2.5	Pass
	3.70	19.34	0.023117		
	4.20	23.05	0.027552		
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	39.49	0.021005	Within authorized band for PCS 1900	Pass
	-20	29.19	0.015527		
	-10	36.94	0.019649		
	0	36.87	0.019612		
	10	30.06	0.015989		
	20	35.00	0.018617		
	30	33.19	0.017654		
	40	29.54	0.015713		
	50	31.12	0.016553		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	32.77	0.017431	Within authorized band for PCS 1900	Pass
	3.70	32.41	0.017239		
	4.20	38.84	0.020660		
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

