

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	31.91	28.76	38.5	PASS
GSM850	190	5	31.88	28.73	38.5	PASS
GSM850	251	5	31.95	28.8	38.5	PASS
GSM1900	512	0	29.14	28.64	33	PASS
GSM1900	661	0	29.25	28.75	33	PASS
GSM1900	810	0	29.14	28.64	33	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	5	1	31.93	28.78	38.5	PASS
GPRS850	128	5	2	31.49	28.34	38.5	PASS
GPRS850	128	5	3	30.08	26.93	38.5	PASS
GPRS850	128	5	4	28.82	25.67	38.5	PASS
GPRS850	190	5	1	31.86	28.71	38.5	PASS
GPRS850	190	5	2	31.43	28.28	38.5	PASS
GPRS850	190	5	3	29.96	26.81	38.5	PASS
GPRS850	190	5	4	28.71	25.56	38.5	PASS
GPRS850	251	5	1	31.93	28.78	38.5	PASS
GPRS850	251	5	2	31.56	28.41	38.5	PASS
GPRS850	251	5	3	30.10	26.95	38.5	PASS
GPRS850	251	5	4	28.86	25.71	38.5	PASS
GPRS1900	512	0	1	29.16	28.66	33	PASS
GPRS1900	512	0	2	28.34	27.84	33	PASS
GPRS1900	512	0	3	26.76	26.26	33	PASS
GPRS1900	512	0	4	25.63	25.13	33	PASS
GPRS1900	661	0	1	29.17	28.67	33	PASS
GPRS1900	661	0	2	28.45	27.95	33	PASS
GPRS1900	661	0	3	26.92	26.42	33	PASS
GPRS1900	661	0	4	25.77	25.27	33	PASS
GPRS1900	810	0	1	29.01	28.51	33	PASS
GPRS1900	810	0	2	28.31	27.81	33	PASS
GPRS1900	810	0	3	26.77	26.27	33	PASS
GPRS1900	810	0	4	25.63	25.13	33	PASS

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

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

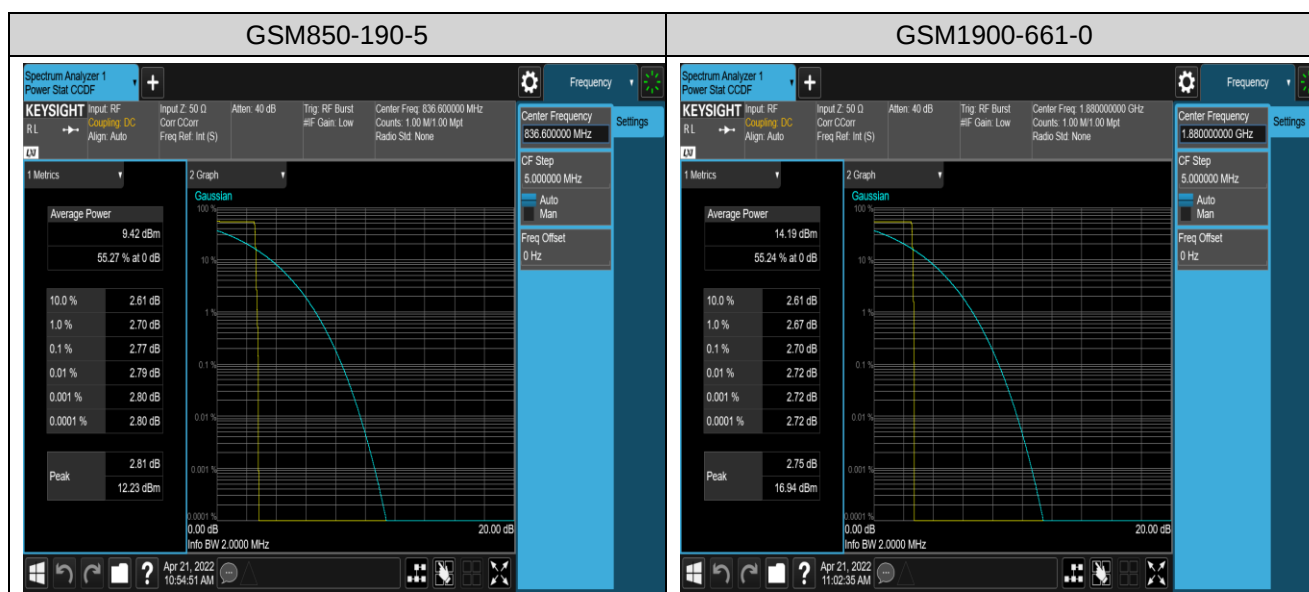
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	PCL	Result(dB)	Limit(dB)	Verdict
GSM850	190	5	2.77	13	PASS
GSM1900	661	0	2.7	13	PASS

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

Test Graphs

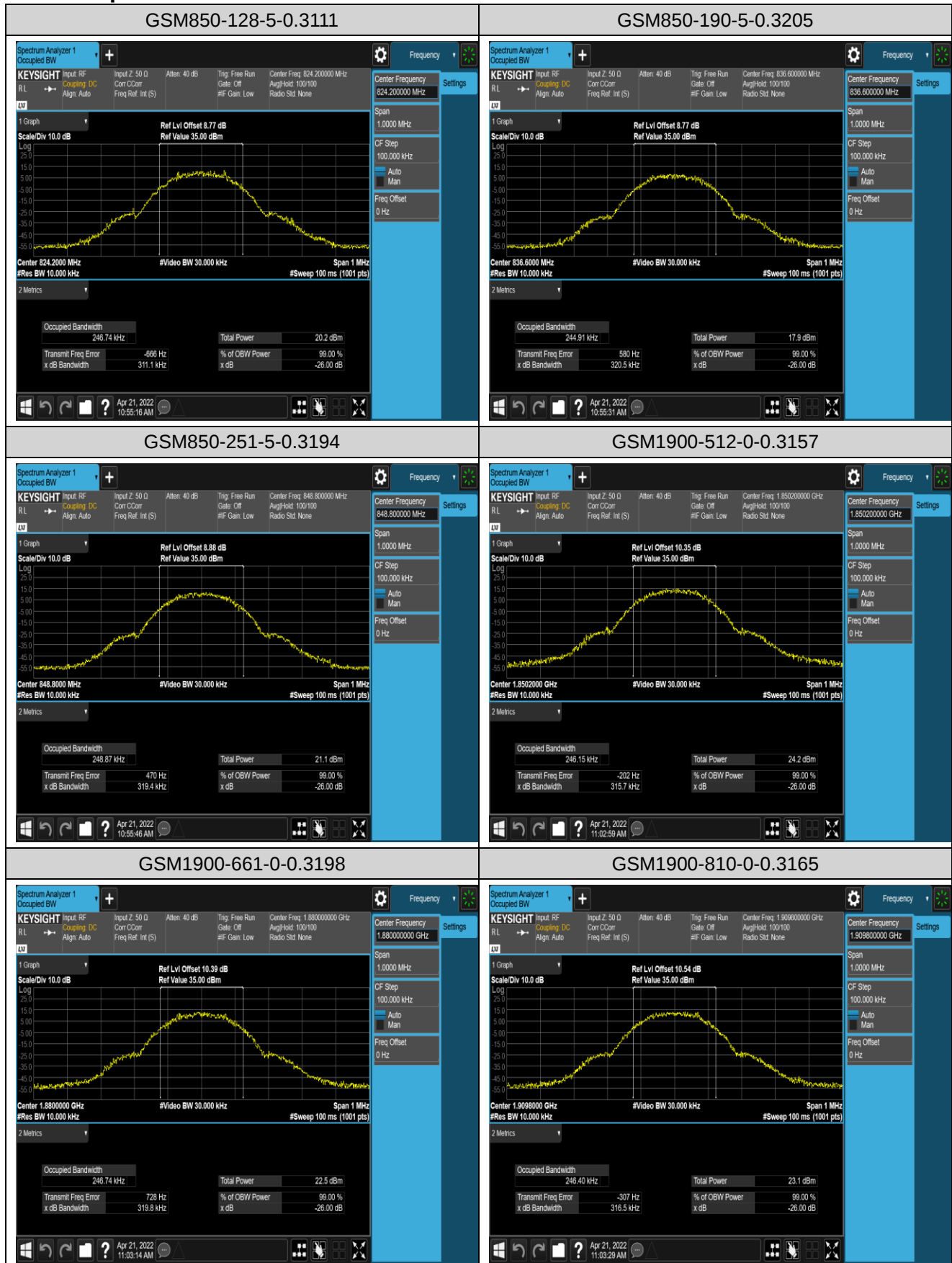


Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	5	0.24674	0.3111	---	PASS
GSM850	190	5	0.24491	0.3205	---	PASS
GSM850	251	5	0.24887	0.3194	---	PASS
GSM1900	512	0	0.24615	0.3157	---	PASS
GSM1900	661	0	0.24674	0.3198	---	PASS
GSM1900	810	0	0.24640	0.3165	---	PASS

Test Graphs

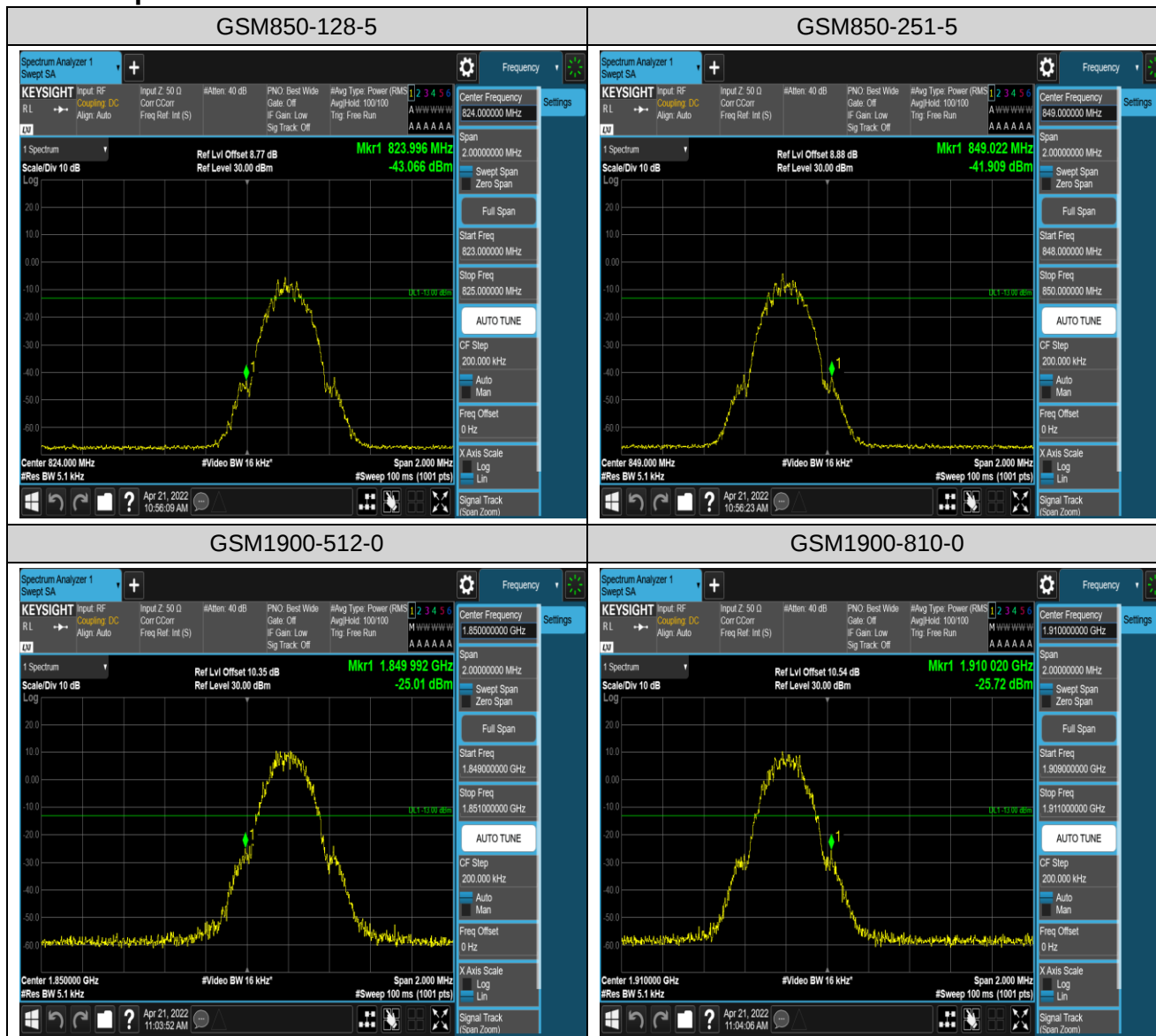


Appendix D: Band Edge

Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	5	824.00	-43.07	-13	PASS
GSM850	251	5	849.02	-41.91	-13	PASS
GSM1900	512	0	1849.99	-25.01	-13	PASS
GSM1900	810	0	1910.02	-25.72	-13	PASS

Test Graphs



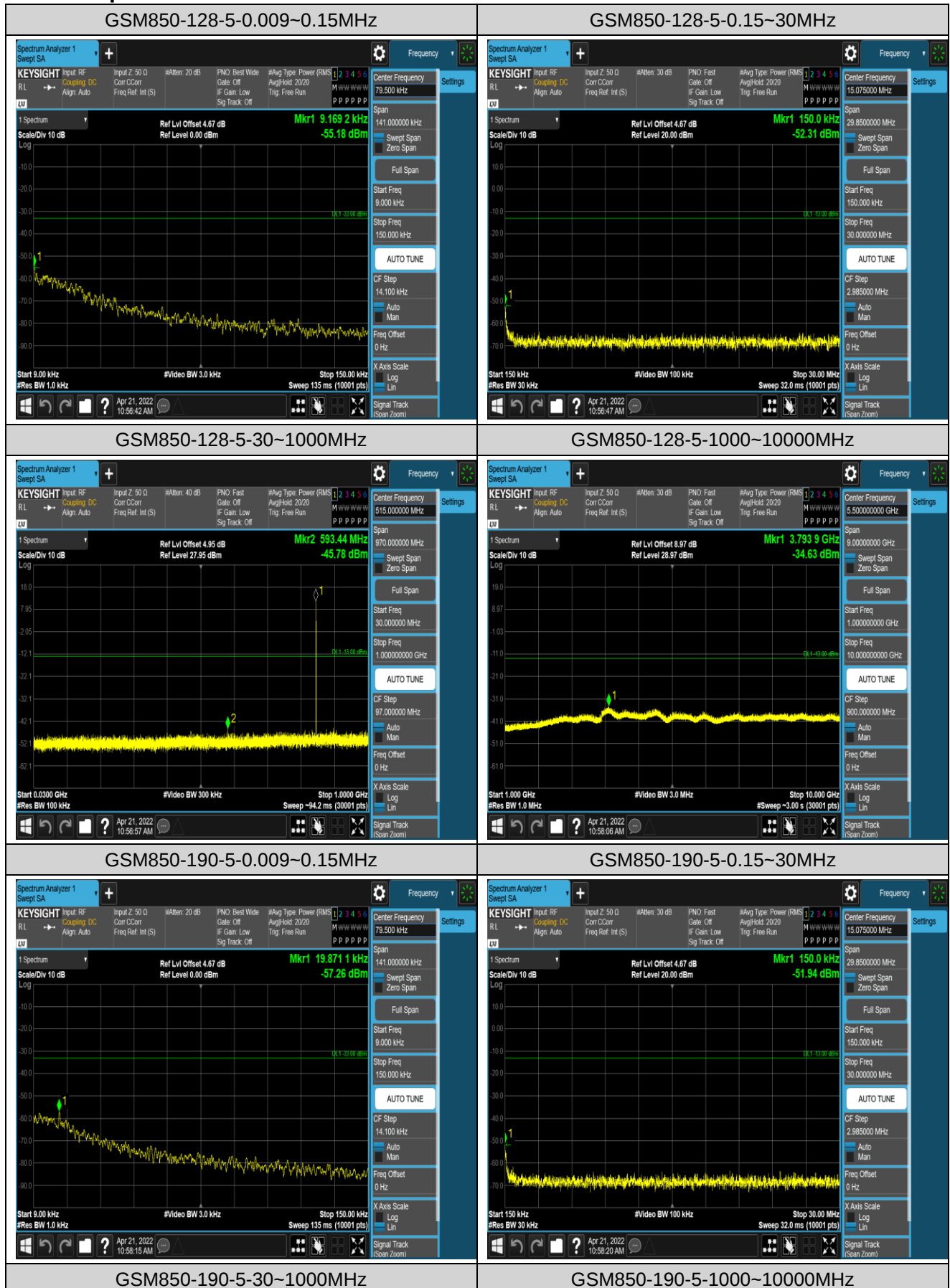
Appendix E: Conducted Spurious Emission

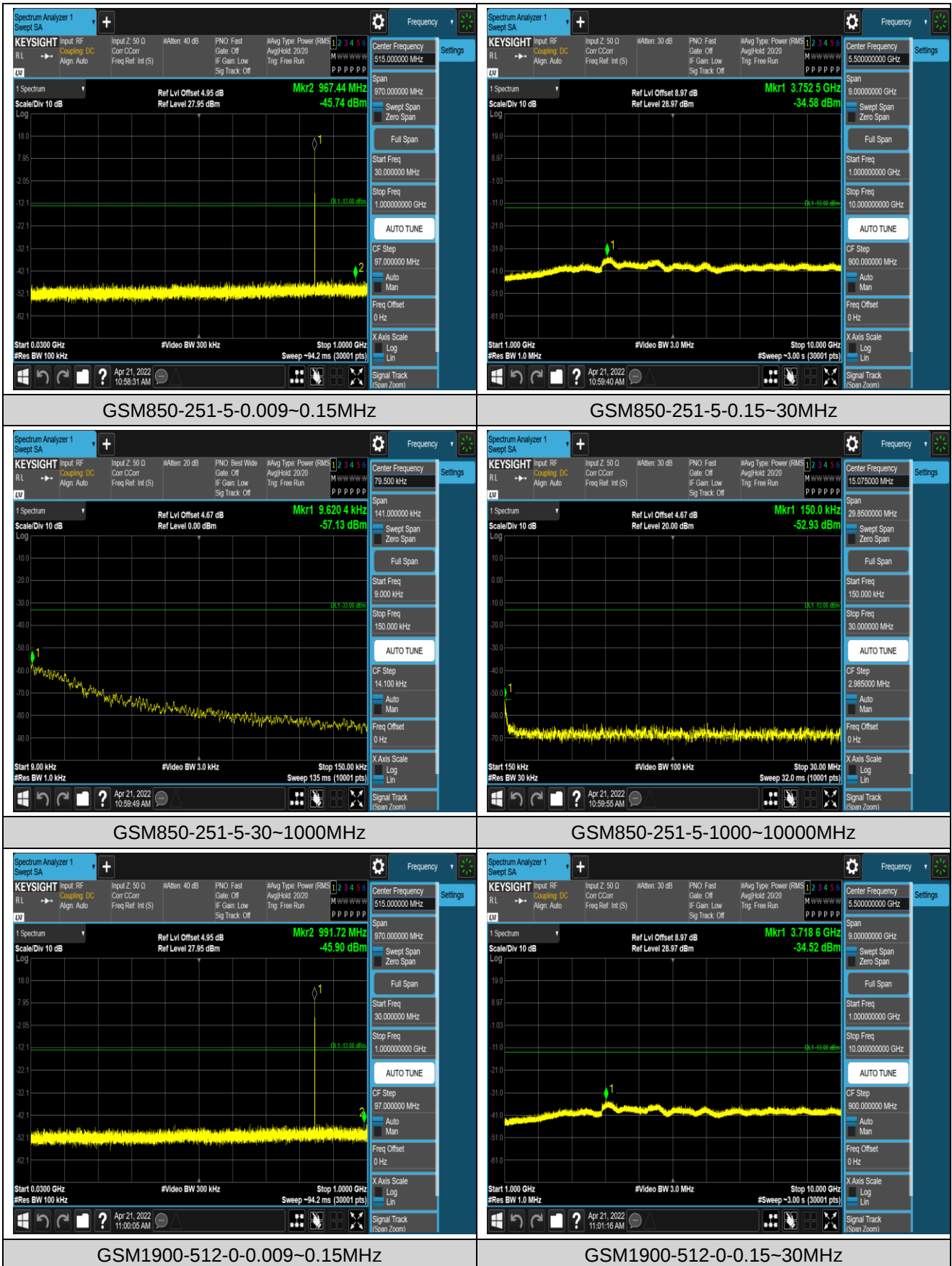
Test Result

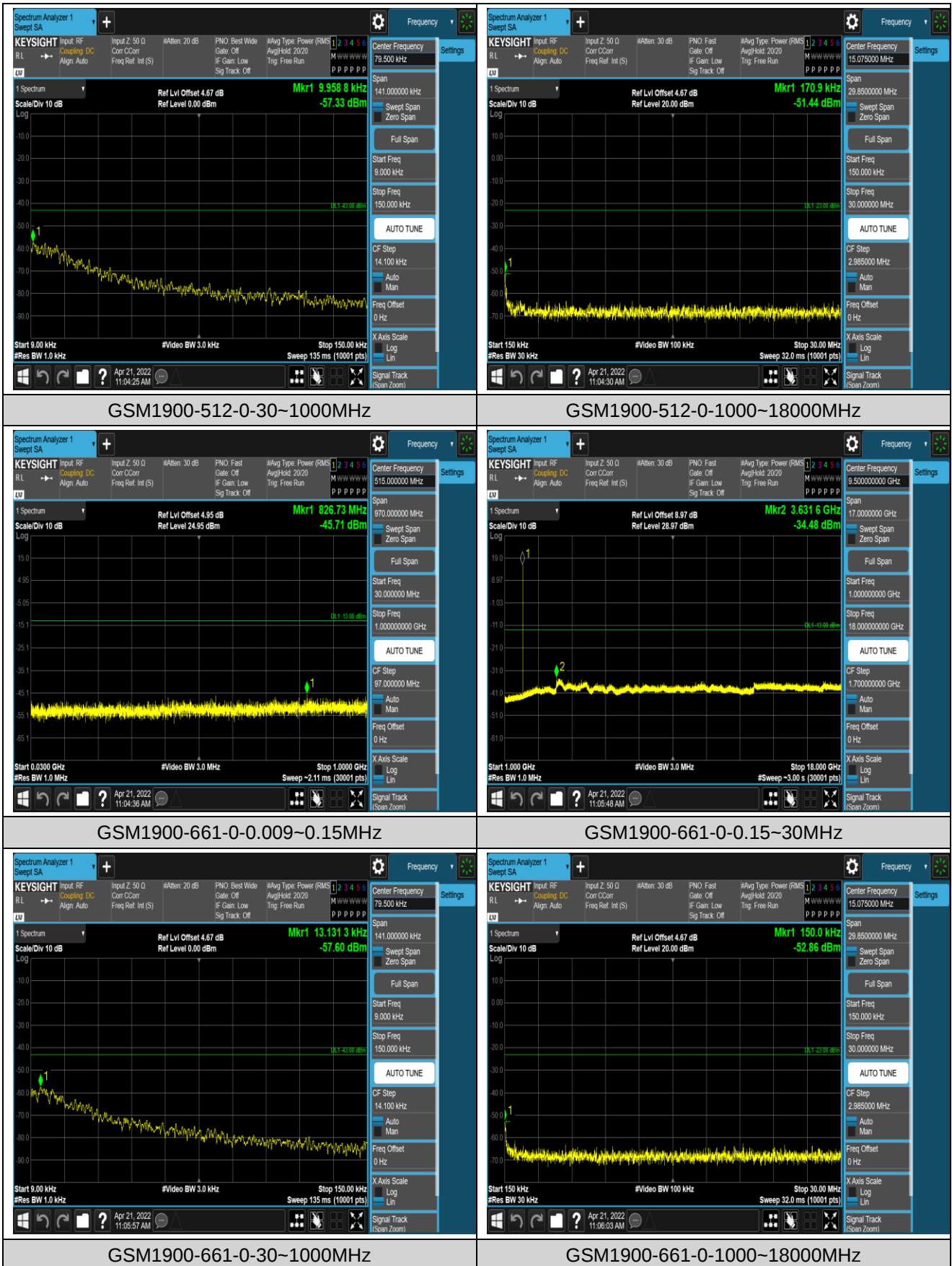
Band	Channel	PCL	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	5	0.009~0.15MHz	0.01	-55.18	-33	PASS
GSM850	128	5	0.15~30MHz	0.15	-52.31	-13	PASS
GSM850	128	5	30~1000MHz	593.44	-45.78	-13	PASS
GSM850	128	5	1000~10000MHz	3793.9	-34.63	-13	PASS
GSM850	190	5	0.009~0.15MHz	0.02	-57.26	-33	PASS
GSM850	190	5	0.15~30MHz	0.15	-51.94	-13	PASS
GSM850	190	5	30~1000MHz	967.44	-45.74	-13	PASS
GSM850	190	5	1000~10000MHz	3752.5	-34.58	-13	PASS
GSM850	251	5	0.009~0.15MHz	0.01	-57.13	-33	PASS
GSM850	251	5	0.15~30MHz	0.15	-52.93	-13	PASS
GSM850	251	5	30~1000MHz	991.72	-45.9	-13	PASS
GSM850	251	5	1000~10000MHz	3718.6	-34.52	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-57.33	-43	PASS
GSM1900	512	0	0.15~30MHz	0.17	-51.44	-23	PASS
GSM1900	512	0	30~1000MHz	826.73	-45.71	-13	PASS
GSM1900	512	0	1000~18000MHz	3631.6	-34.48	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-57.6	-43	PASS
GSM1900	661	0	0.15~30MHz	0.15	-52.86	-23	PASS
GSM1900	661	0	30~1000MHz	487.23	-46.61	-13	PASS
GSM1900	661	0	1000~18000MHz	3839	-34.22	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-56.04	-43	PASS
GSM1900	810	0	0.15~30MHz	0.16	-51.24	-23	PASS
GSM1900	810	0	30~1000MHz	937.82	-46.17	-13	PASS
GSM1900	810	0	1000~18000MHz	3828.23	-34.86	-13	PASS

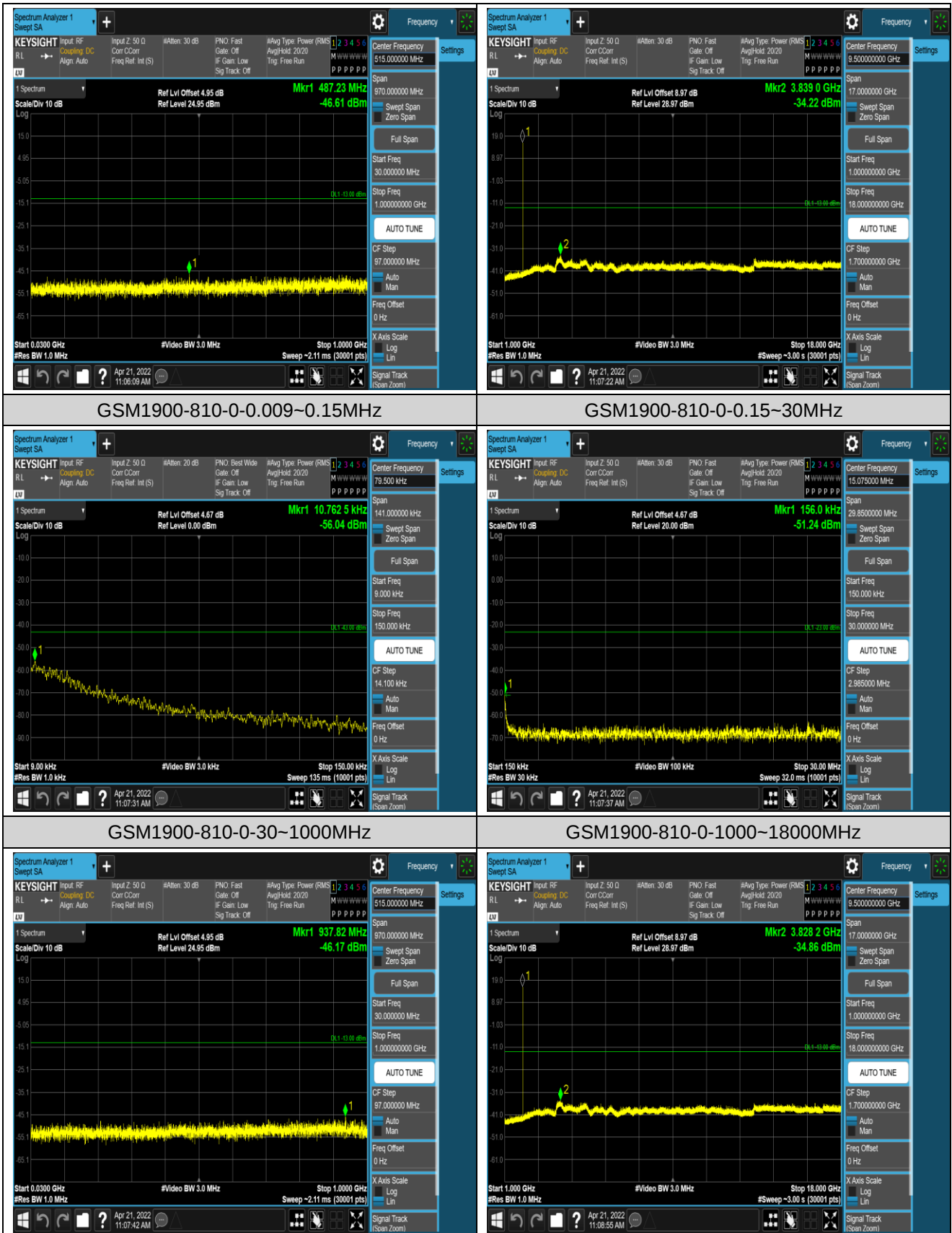
Remark: All channel and all modulation had been tested, but only the worst case data displayed in this report.

Test Graphs









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	10.69	0.012778	±2.5	Pass
	-20	8.04	0.009610		
	-10	15.95	0.019065		
	0	11.11	0.013280		
	10	20.92	0.025006		
	20	9.72	0.011618		
	30	9.23	0.011033		
	40	9.78	0.011690		
	50	8.91	0.010650		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.40	7.85	0.009383	±2.5	Pass
	3.70	10.01	0.011965		
	4.20	12.53	0.014977		
Remark: All channels 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	25.47	0.013548	Within authorized band for PCS 1900	Pass
	-20	19.21	0.010218		
	-10	-1.26	-0.000670		
	0	5.36	0.002851		
	10	0.00	0.000000		
	20	3.62	0.001926		
	30	2.52	0.001340		
	40	-2.10	-0.001117		
	50	6.46	0.003436		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.40	21.73	0.011559	Within authorized band for PCS 1900	Pass
	3.70	23.37	0.012431		
	4.20	27.93	0.014856		
Remark: All channels 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

