

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	33.00	31.08	38.45	PASS
GSM850	190	5	33.03	31.11	38.45	PASS
GSM850	251	5	32.98	31.06	38.45	PASS
GSM1900	512	0	29.79	30.21	33.00	PASS
GSM1900	661	0	29.66	30.08	33.00	PASS
GSM1900	810	0	29.74	30.16	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	5	1	33.03	31.11	38.45	PASS
GPRS850	128	5	2	31.03	29.11	38.45	PASS
GPRS850	128	5	3	29.21	27.29	38.45	PASS
GPRS850	128	5	4	27.31	25.39	38.45	PASS
GPRS850	190	5	1	33.03	31.11	38.45	PASS
GPRS850	190	5	2	31.02	29.1	38.45	PASS
GPRS850	190	5	3	29.17	27.25	38.45	PASS
GPRS850	190	5	4	27.25	25.33	38.45	PASS
GPRS850	251	5	1	32.97	31.05	38.45	PASS
GPRS850	251	5	2	30.96	29.04	38.45	PASS
GPRS850	251	5	3	29.12	27.2	38.45	PASS
GPRS850	251	5	4	27.21	25.29	38.45	PASS
GPRS1900	512	0	1	29.82	30.24	33.00	PASS
GPRS1900	512	0	2	27.59	28.01	33.00	PASS
GPRS1900	512	0	3	26.01	26.43	33.00	PASS
GPRS1900	512	0	4	24.08	24.5	33.00	PASS
GPRS1900	661	0	1	29.73	30.15	33.00	PASS
GPRS1900	661	0	2	27.55	27.97	33.00	PASS
GPRS1900	661	0	3	25.97	26.39	33.00	PASS
GPRS1900	661	0	4	24.03	24.45	33.00	PASS
GPRS1900	810	0	1	29.80	30.22	33.00	PASS
GPRS1900	810	0	2	27.25	27.67	33.00	PASS
GPRS1900	810	0	3	25.68	26.1	33.00	PASS
GPRS1900	810	0	4	23.76	24.18	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
EGPRS850	128	8	1	26.03	24.11	38.45	PASS
EGPRS850	128	8	2	24.91	22.99	38.45	PASS
EGPRS850	128	8	3	21.98	20.06	38.45	PASS
EGPRS850	128	8	4	19.79	17.87	38.45	PASS
EGPRS850	190	8	1	26.07	24.15	38.45	PASS
EGPRS850	190	8	2	24.99	23.07	38.45	PASS
EGPRS850	190	8	3	22.20	20.28	38.45	PASS
EGPRS850	190	8	4	19.99	18.07	38.45	PASS
EGPRS850	251	8	1	25.85	23.93	38.45	PASS
EGPRS850	251	8	2	24.78	22.86	38.45	PASS
EGPRS850	251	8	3	22.01	20.09	38.45	PASS
EGPRS850	251	8	4	20.01	18.09	38.45	PASS
EGPRS1900	512	2	1	24.94	25.36	33.00	PASS
EGPRS1900	512	2	2	22.91	23.33	33.00	PASS
EGPRS1900	512	2	3	20.67	21.09	33.00	PASS
EGPRS1900	512	2	4	18.75	19.17	33.00	PASS
EGPRS1900	661	2	1	25.57	25.99	33.00	PASS
EGPRS1900	661	2	2	23.87	24.29	33.00	PASS
EGPRS1900	661	2	3	21.71	22.13	33.00	PASS
EGPRS1900	661	2	4	19.89	20.31	33.00	PASS
EGPRS1900	810	2	1	24.56	24.98	33.00	PASS
EGPRS1900	810	2	2	22.87	23.29	33.00	PASS
EGPRS1900	810	2	3	21.02	21.44	33.00	PASS
EGPRS1900	810	2	4	18.97	19.39	33.00	PASS

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

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

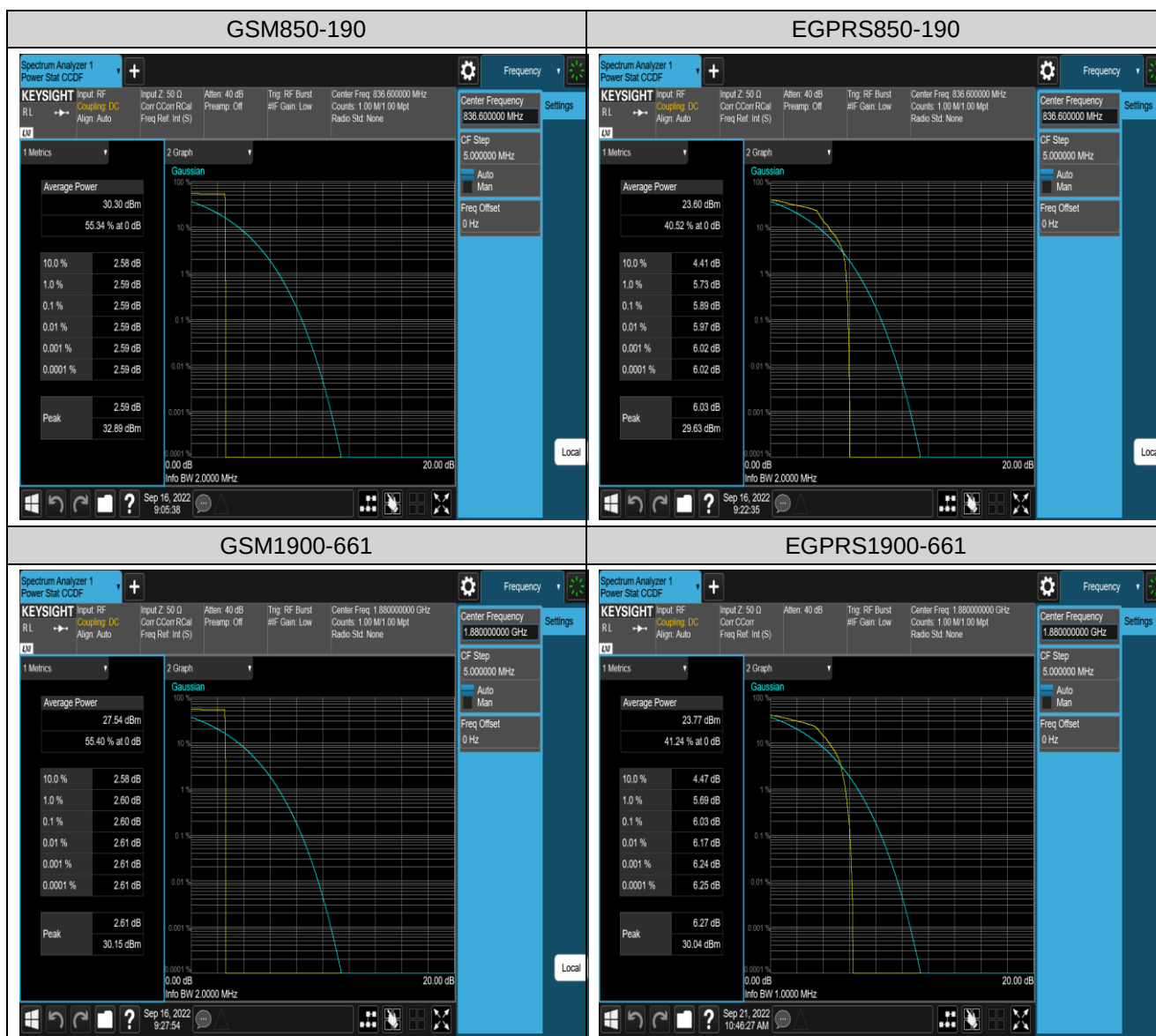
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	PCL	Result(dB)	Limit(dB)	Verdict
GSM850	190	5	2.59	13	PASS
EGPRS850	190	8	5.89	13	PASS
GSM1900	661	0	2.6	13	PASS
EGPRS1900	661	2	6.03	13	PASS

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

Test Graphs

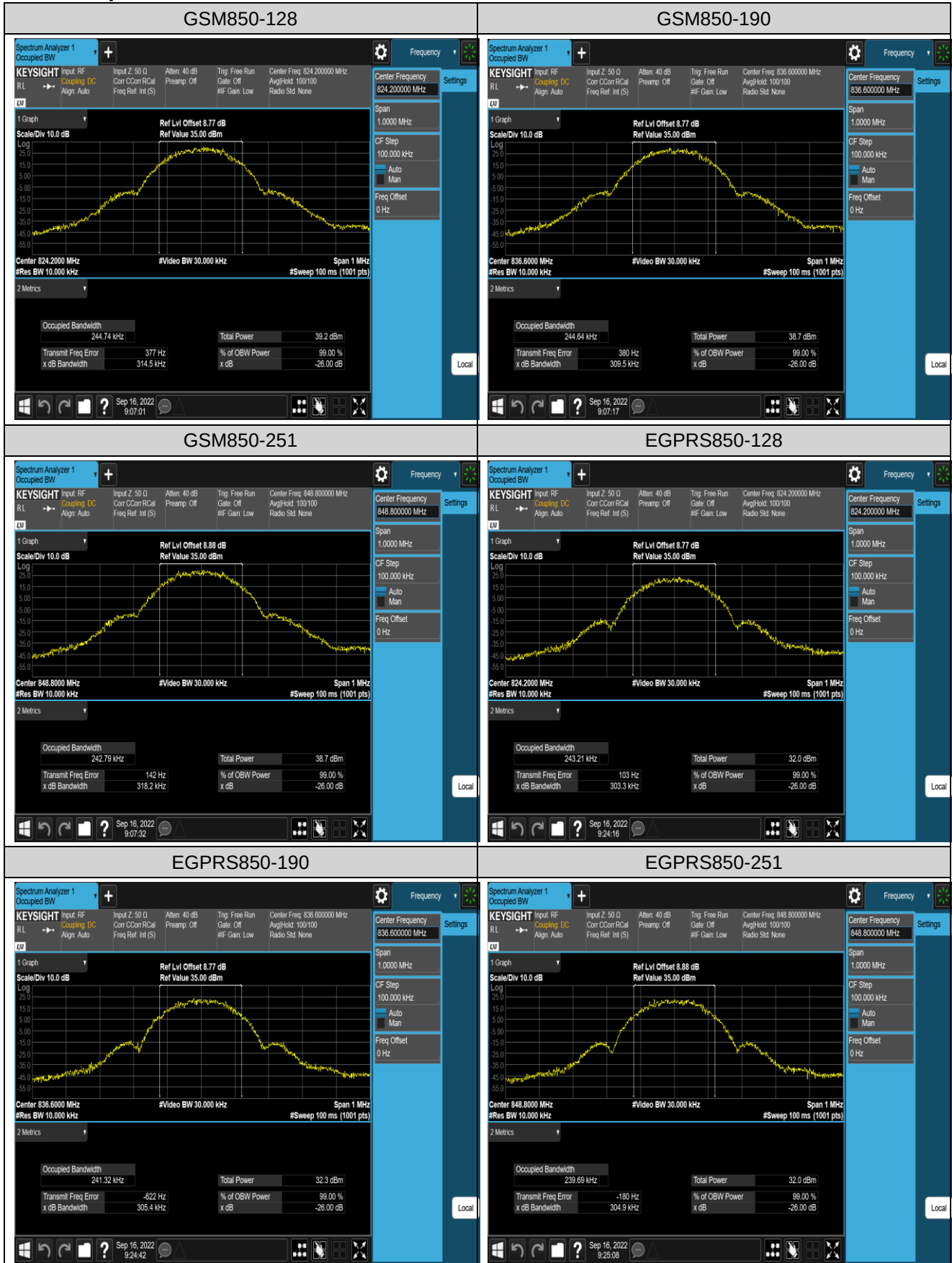


Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)
GSM850	128	5	0.24474	0.3145
GSM850	190	5	0.24464	0.3095
GSM850	251	5	0.24279	0.3182
EGPRS850	128	8	0.24321	0.3033
EGPRS850	190	8	0.24132	0.3054
EGPRS850	251	8	0.23969	0.3049
GSM1900	512	0	0.24501	0.3149
GSM1900	661	0	0.24360	0.3142
GSM1900	810	0	0.24322	0.3129
EGPRS1900	512	2	0.24465	0.3079
EGPRS1900	661	2	0.24444	0.3038
EGPRS1900	810	2	0.24524	0.3097

Test Graphs

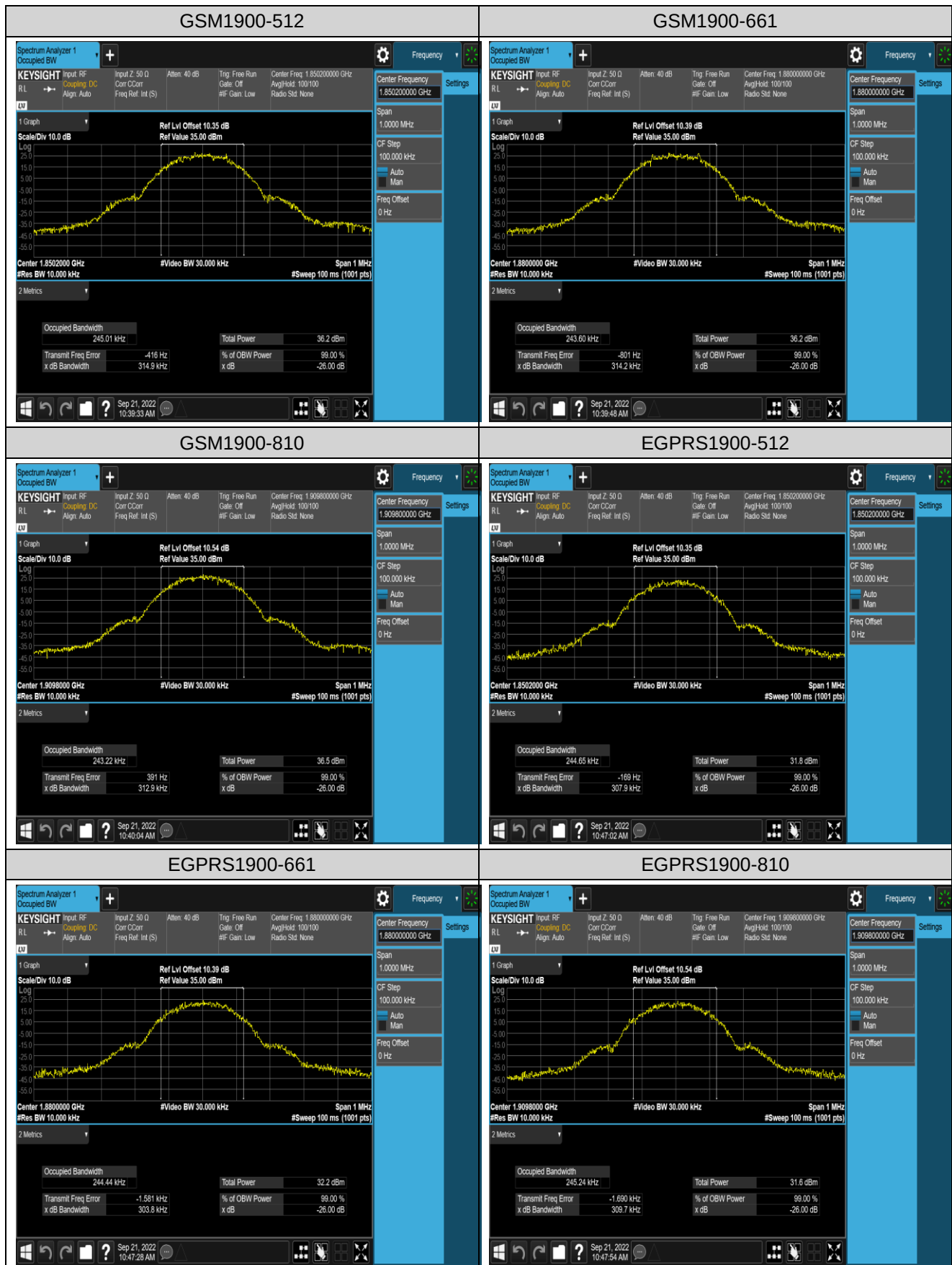


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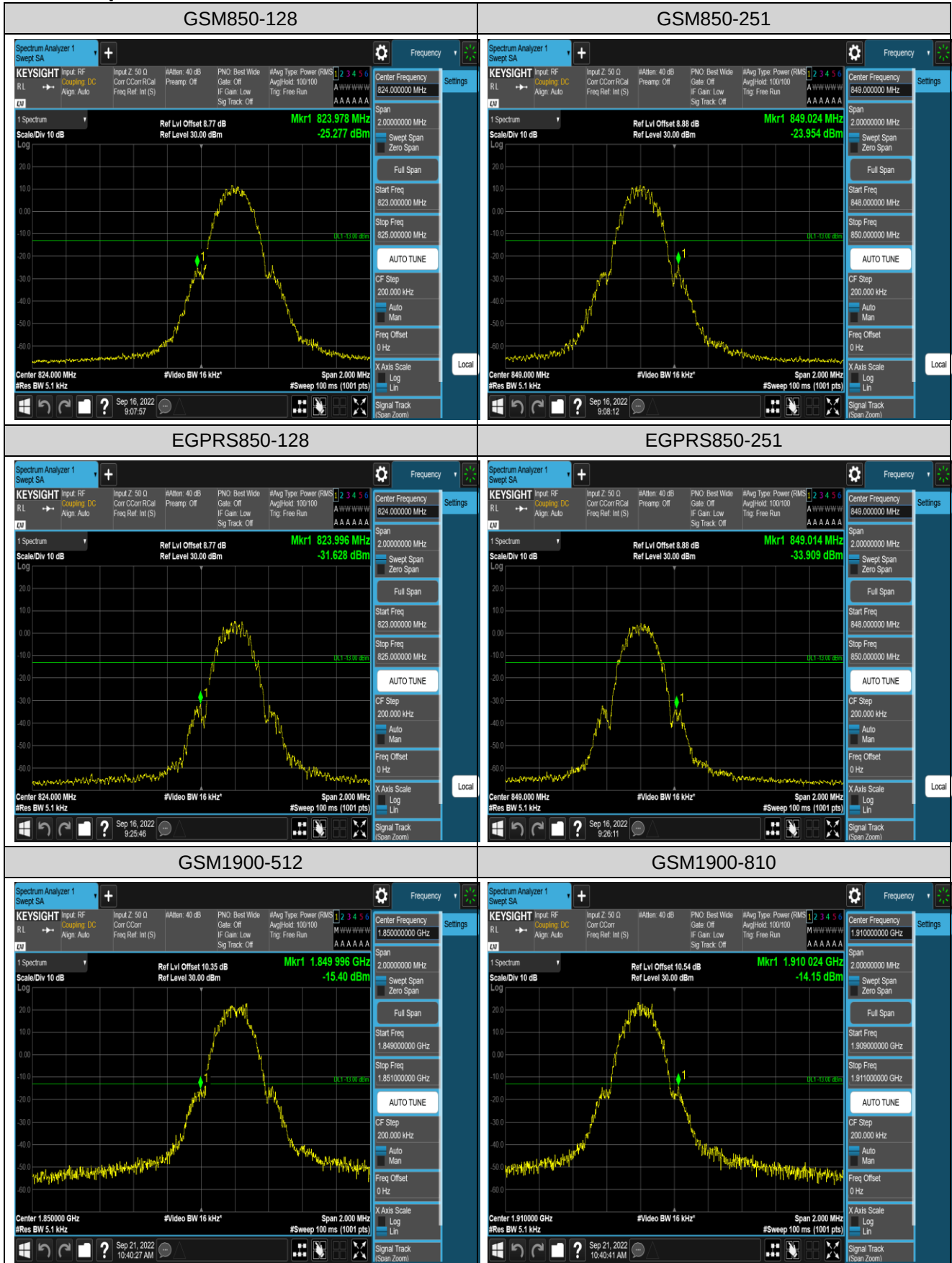


Appendix D: Band Edge

Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	5	823.98	-25.28	-13	PASS
GSM850	251	5	849.02	-23.95	-13	PASS
EGPRS850	128	8	824.00	-31.63	-13	PASS
EGPRS850	251	8	849.01	-33.91	-13	PASS
GSM1900	512	0	1850.00	-15.40	-13	PASS
GSM1900	810	0	1910.02	-14.15	-13	PASS
EGPRS1900	512	2	1849.97	-19.15	-13	PASS
EGPRS1900	810	2	1910.02	-17.54	-13	PASS

Test Graphs

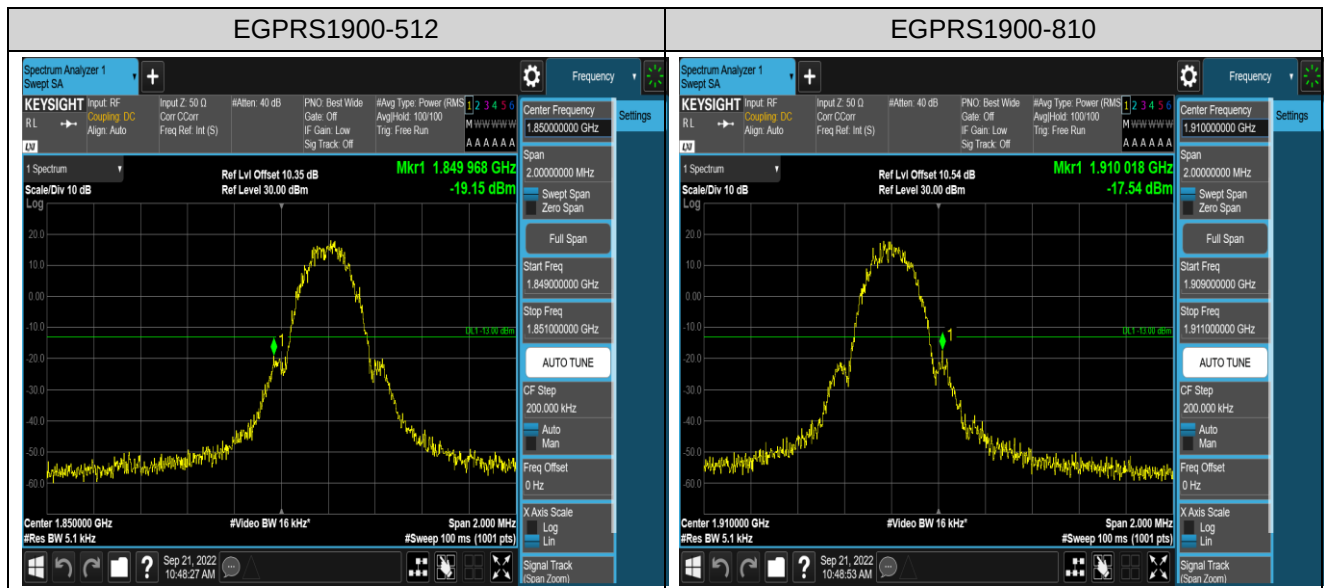


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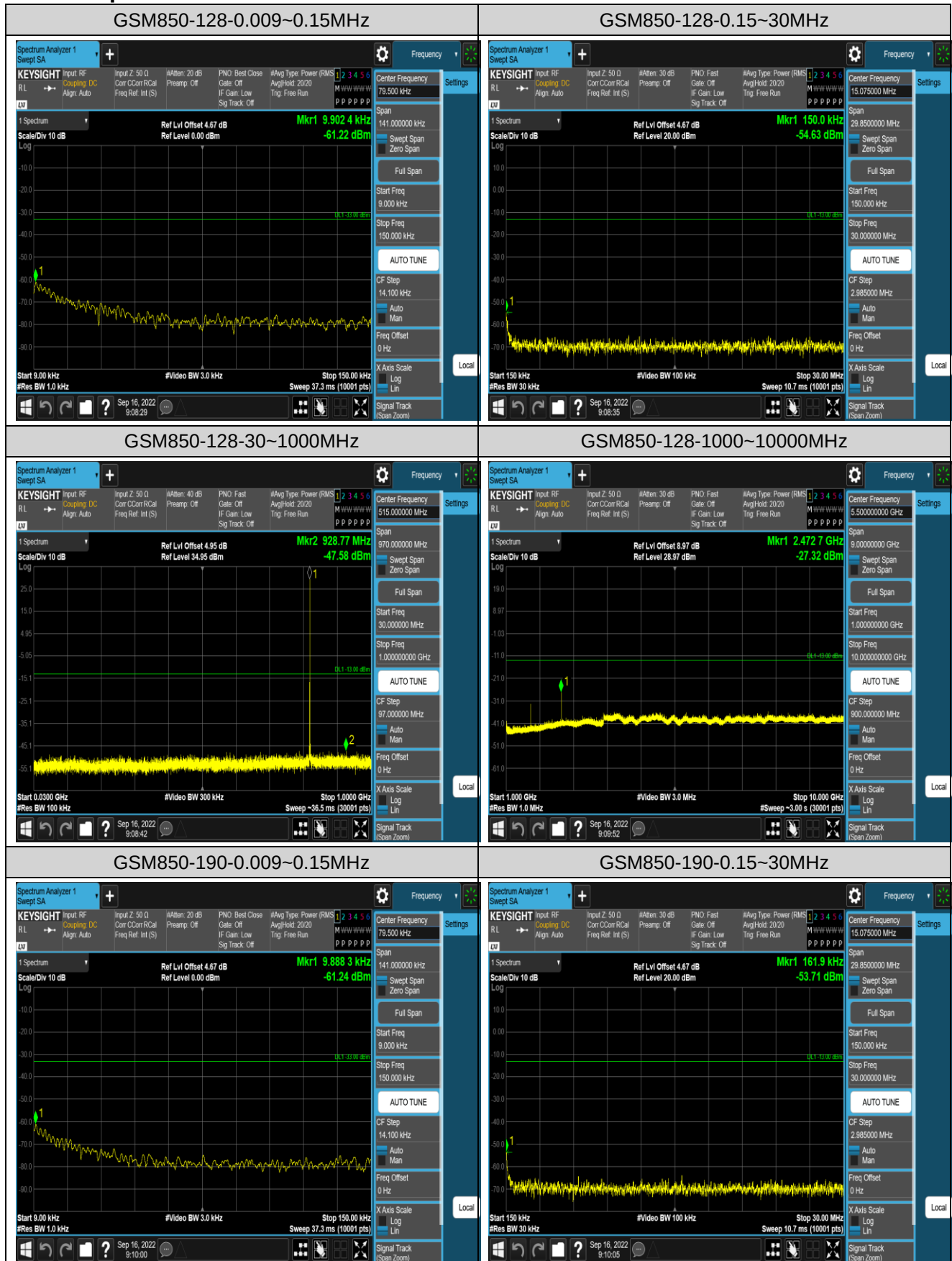
Appendix E: Conducted Spurious Emission

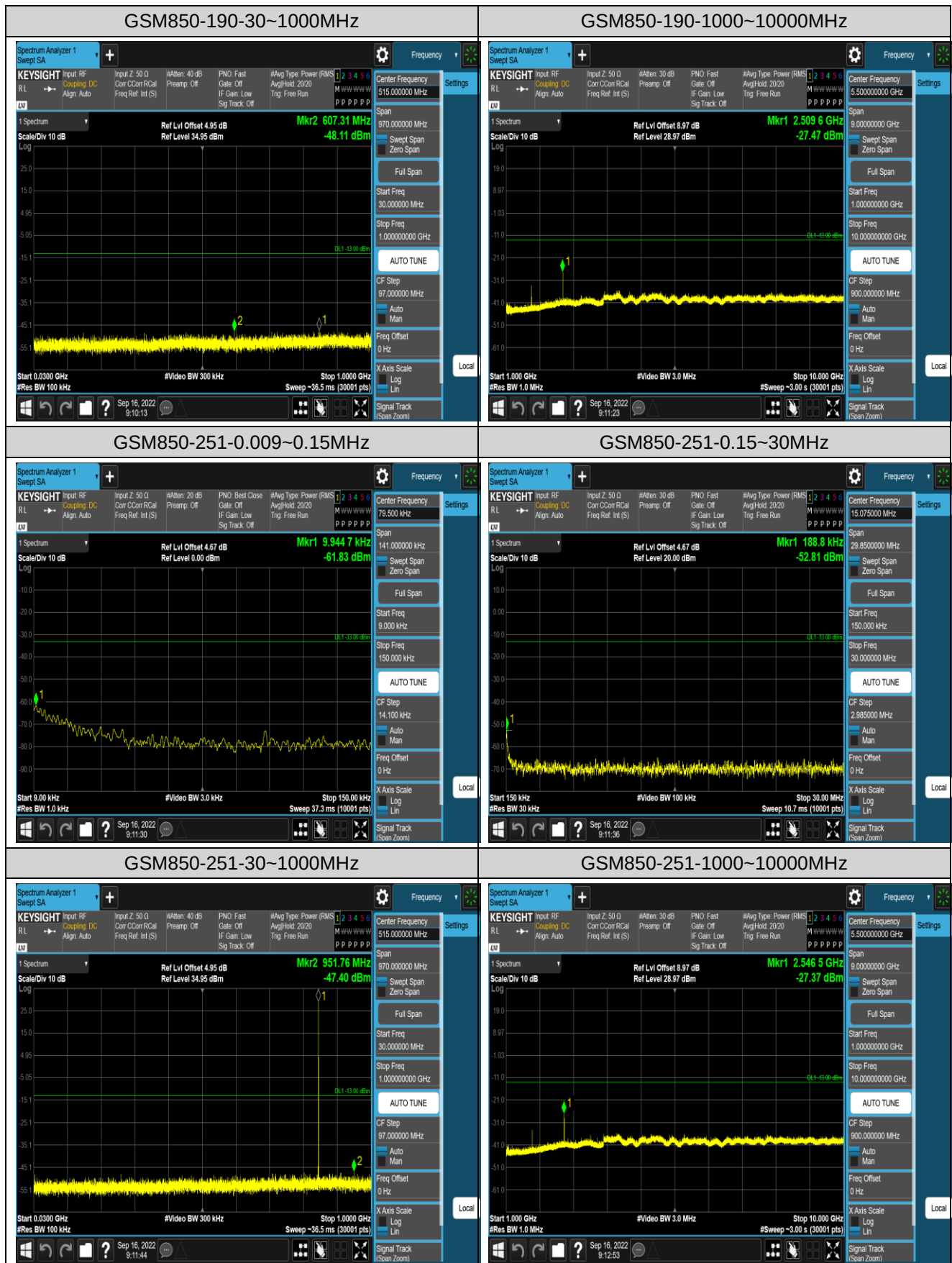
Test Result

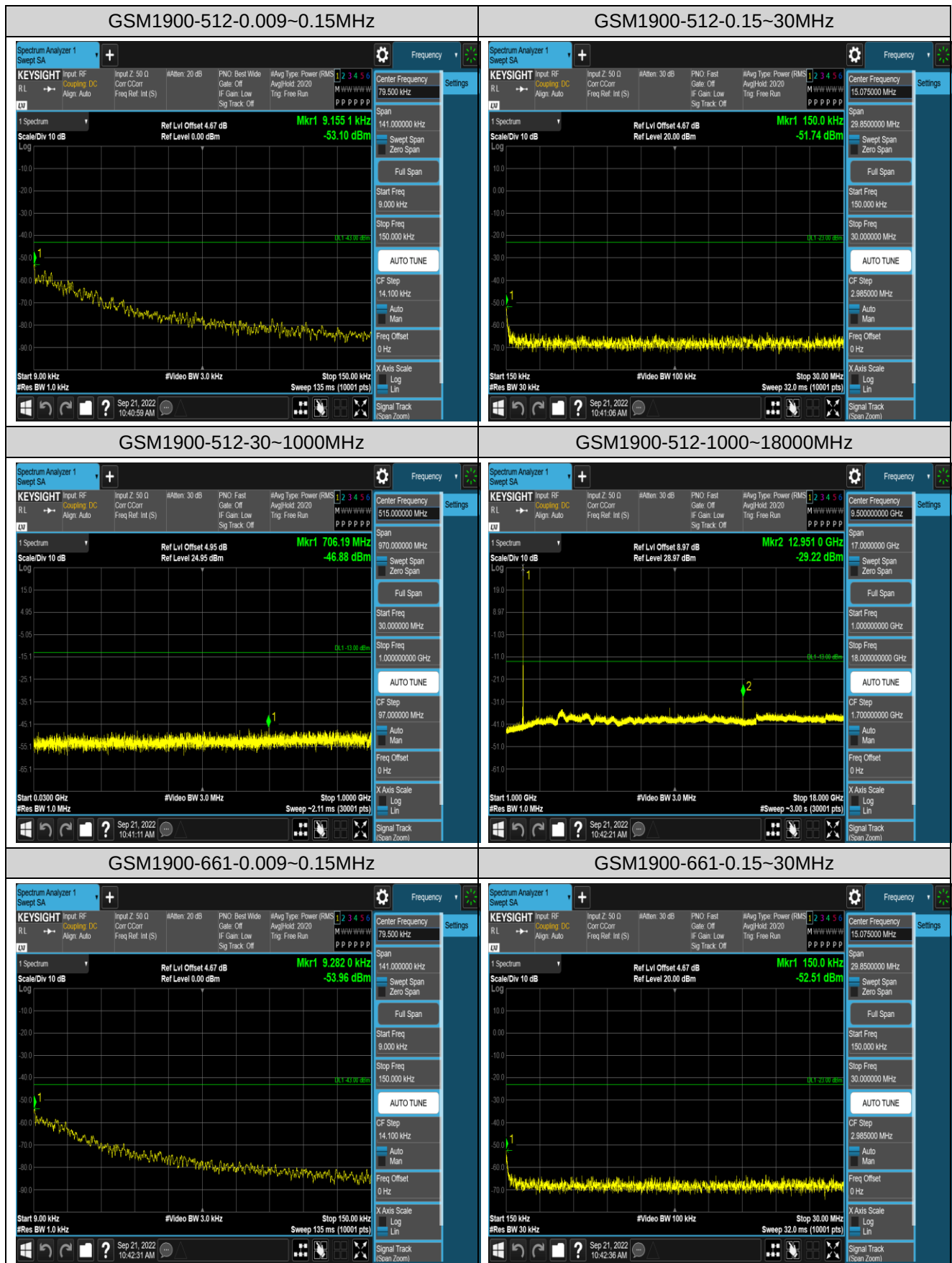
Band	Channel	PCL	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	5	0.009~0.15MHz	0.01	-61.22	-33	PASS
GSM850	128	5	0.15~30MHz	0.15	-54.63	-13	PASS
GSM850	128	5	30~1000MHz	928.77	-47.59	-13	PASS
GSM850	128	5	1000~10000MHz	2472.7	-27.33	-13	PASS
GSM850	190	5	0.009~0.15MHz	0.01	-61.24	-33	PASS
GSM850	190	5	0.15~30MHz	0.16	-53.71	-13	PASS
GSM850	190	5	30~1000MHz	607.31	-48.11	-13	PASS
GSM850	190	5	1000~10000MHz	2509.6	-27.47	-13	PASS
GSM850	251	5	0.009~0.15MHz	0.01	-61.83	-33	PASS
GSM850	251	5	0.15~30MHz	0.19	-52.81	-13	PASS
GSM850	251	5	30~1000MHz	951.76	-47.4	-13	PASS
GSM850	251	5	1000~10000MHz	2546.5	-27.37	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-53.1	-43	PASS
GSM1900	512	0	0.15~30MHz	0.15	-51.74	-23	PASS
GSM1900	512	0	30~1000MHz	706.19	-46.88	-13	PASS
GSM1900	512	0	1000~18000MHz	12951	-29.22	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-53.96	-43	PASS
GSM1900	661	0	0.15~30MHz	0.15	-52.51	-23	PASS
GSM1900	661	0	30~1000MHz	165.61	-46.94	-13	PASS
GSM1900	661	0	1000~18000MHz	13160.1	-28.76	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-57.82	-43	PASS
GSM1900	810	0	0.15~30MHz	0.15	-52.63	-23	PASS
GSM1900	810	0	30~1000MHz	992.37	-46.53	-13	PASS
GSM1900	810	0	1000~18000MHz	3819.17	-33.08	-13	PASS

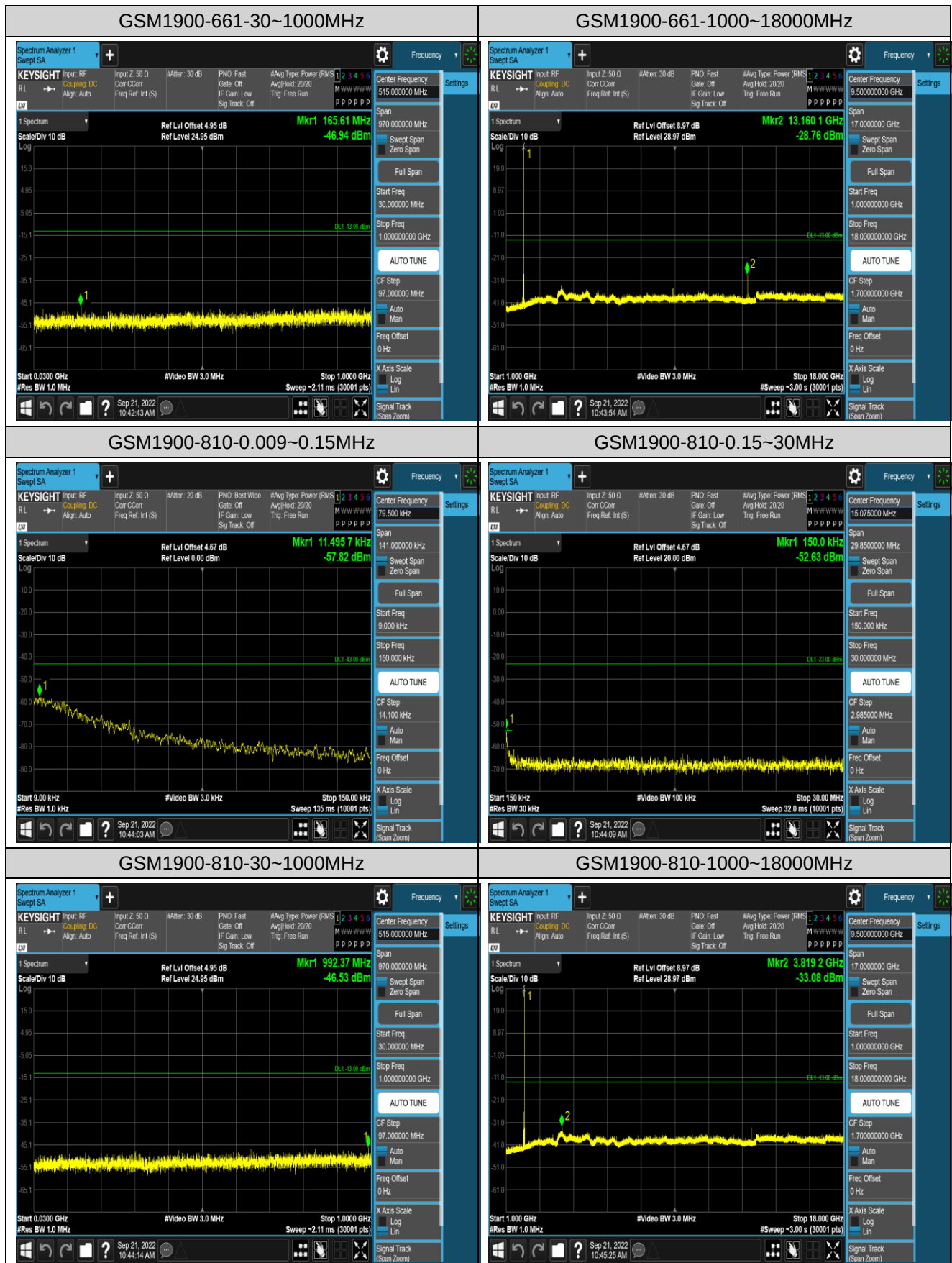
Remark: All channel and all modulation had been tested, but only the worst case data displayed in this report.

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		
3.85	-30	-1.94	-0.002319	±2.5	Pass
	-20	-4.13	-0.004937		
	-10	-4.62	-0.005522		
	0	-2.26	-0.002701		
	10	-2.16	-0.002582		
	20	-5.65	-0.006754		
	30	-3.39	-0.004052		
	40	-5.29	-0.006323		
	50	-5.52	-0.006598		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	-1.52	-0.001817	±2.5	Pass
	3.85	-3.07	-0.003670		
	4.24	-3.78	-0.004518		
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		
3.85	-30	12.43	0.014858	±2.5	Pass
	-20	3.33	0.003980		
	-10	2.74	0.003275		
	0	3.78	0.004518		
	10	3.62	0.004327		
	20	6.07	0.007256		
	30	-1.61	-0.001924		
	40	6.17	0.007375		
	50	2.03	0.002426		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	7.36	0.008798	±2.5	Pass
	3.85	6.46	0.007722		
	4.24	-0.84	-0.001004		
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		
3.85	-30	-5.13	-0.002729	Within authorized band for PCS 1900	Pass
	-20	-12.40	-0.006596		
	-10	-5.71	-0.003037		
	0	-5.20	-0.002766		
	10	-8.68	-0.004617		
	20	-4.36	-0.002319		
	30	-13.11	-0.006973		
	40	-9.10	-0.004840		
	50	2.07	0.001101		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	-7.68	-0.004085	Within authorized band for PCS 1900	Pass
	3.85	-3.71	-0.001973		
	4.24	-15.69	-0.008346		
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 (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.85	-30	-9.04	-0.004809	Within authorized band for PCS 1900	Pass
	-20	-4.16	-0.002213		
	-10	-8.07	-0.004293		
	0	-3.23	-0.001718		
	10	-8.91	-0.004739		
	20	-6.23	-0.003314		
	30	1.36	0.000723		
	40	3.36	0.001787		
	50	-0.42	-0.000223		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	-4.42	-0.002351	Within authorized band for PCS 1900	Pass
	3.85	0.13	0.000069		
	4.24	-5.46	-0.002904		
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

