

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	33.22	29.07	38.45	PASS
GSM850	190	5	33.03	28.88	38.45	PASS
GSM850	251	5	33.21	29.06	38.45	PASS
GSM1900	512	0	29.94	28.74	33.00	PASS
GSM1900	661	0	29.88	28.68	33.00	PASS
GSM1900	810	0	29.82	28.62	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	5	1	33.22	29.07	38.45	PASS
GPRS850	128	5	2	31.14	26.99	38.45	PASS
GPRS850	128	5	3	29.14	24.99	38.45	PASS
GPRS850	128	5	4	26.90	22.75	38.45	PASS
GPRS850	190	5	1	33.03	28.88	38.45	PASS
GPRS850	190	5	2	30.97	26.82	38.45	PASS
GPRS850	190	5	3	29.02	24.87	38.45	PASS
GPRS850	190	5	4	26.84	22.69	38.45	PASS
GPRS850	251	5	1	33.21	29.06	38.45	PASS
GPRS850	251	5	2	30.98	26.83	38.45	PASS
GPRS850	251	5	3	29.04	24.89	38.45	PASS
GPRS850	251	5	4	26.85	22.70	38.45	PASS
GPRS1900	512	0	1	29.94	28.74	33.00	PASS
GPRS1900	512	0	2	27.70	26.50	33.00	PASS
GPRS1900	512	0	3	26.13	24.93	33.00	PASS
GPRS1900	512	0	4	23.98	22.78	33.00	PASS
GPRS1900	661	0	1	29.86	28.66	33.00	PASS
GPRS1900	661	0	2	27.59	26.39	33.00	PASS
GPRS1900	661	0	3	26.00	24.80	33.00	PASS
GPRS1900	661	0	4	23.86	22.66	33.00	PASS
GPRS1900	810	0	1	29.78	28.58	33.00	PASS
GPRS1900	810	0	2	27.33	26.13	33.00	PASS
GPRS1900	810	0	3	25.74	24.54	33.00	PASS
GPRS1900	810	0	4	23.55	22.35	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
EGPRS850	128	8	1	25.62	21.47	38.45	PASS
EGPRS850	128	8	2	25.34	21.19	38.45	PASS
EGPRS850	128	8	3	24.01	19.86	38.45	PASS
EGPRS850	128	8	4	21.32	17.17	38.45	PASS
EGPRS850	190	8	1	25.34	21.19	38.45	PASS
EGPRS850	190	8	2	25.35	21.20	38.45	PASS
EGPRS850	190	8	3	24.06	19.91	38.45	PASS
EGPRS850	190	8	4	21.44	17.29	38.45	PASS
EGPRS850	251	8	1	25.05	20.90	38.45	PASS
EGPRS850	251	8	2	25.05	20.90	38.45	PASS
EGPRS850	251	8	3	23.78	19.63	38.45	PASS
EGPRS850	251	8	4	21.11	16.96	38.45	PASS
EGPRS1900	512	2	1	25.37	24.17	33.00	PASS
EGPRS1900	512	2	2	25.23	24.03	33.00	PASS
EGPRS1900	512	2	3	23.53	22.33	33.00	PASS
EGPRS1900	512	2	4	21.03	19.83	33.00	PASS
EGPRS1900	661	2	1	25.55	24.35	33.00	PASS
EGPRS1900	661	2	2	25.56	24.36	33.00	PASS
EGPRS1900	661	2	3	24.06	22.86	33.00	PASS
EGPRS1900	661	2	4	21.73	20.53	33.00	PASS
EGPRS1900	810	2	1	24.55	23.35	33.00	PASS
EGPRS1900	810	2	2	24.66	23.46	33.00	PASS
EGPRS1900	810	2	3	22.95	21.75	33.00	PASS
EGPRS1900	810	2	4	20.28	19.08	33.00	PASS

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

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

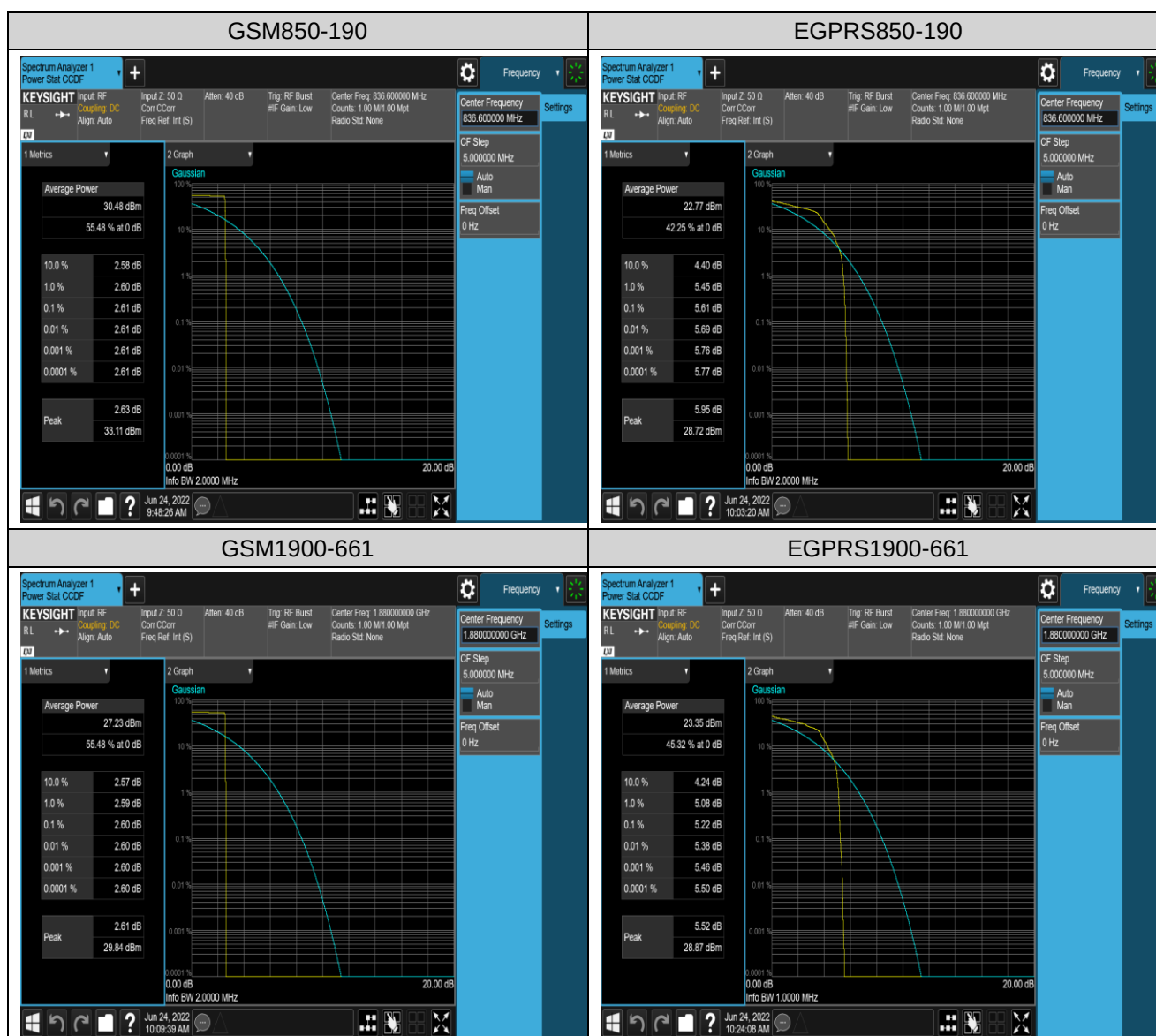
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	PCL	Result(dB)	Limit(dB)	Verdict
GSM850	190	5	2.61	13	PASS
EGPRS850	190	8	5.61	13	PASS
GSM1900	661	0	2.6	13	PASS
EGPRS1900	661	2	5.22	13	PASS

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

Test Graphs

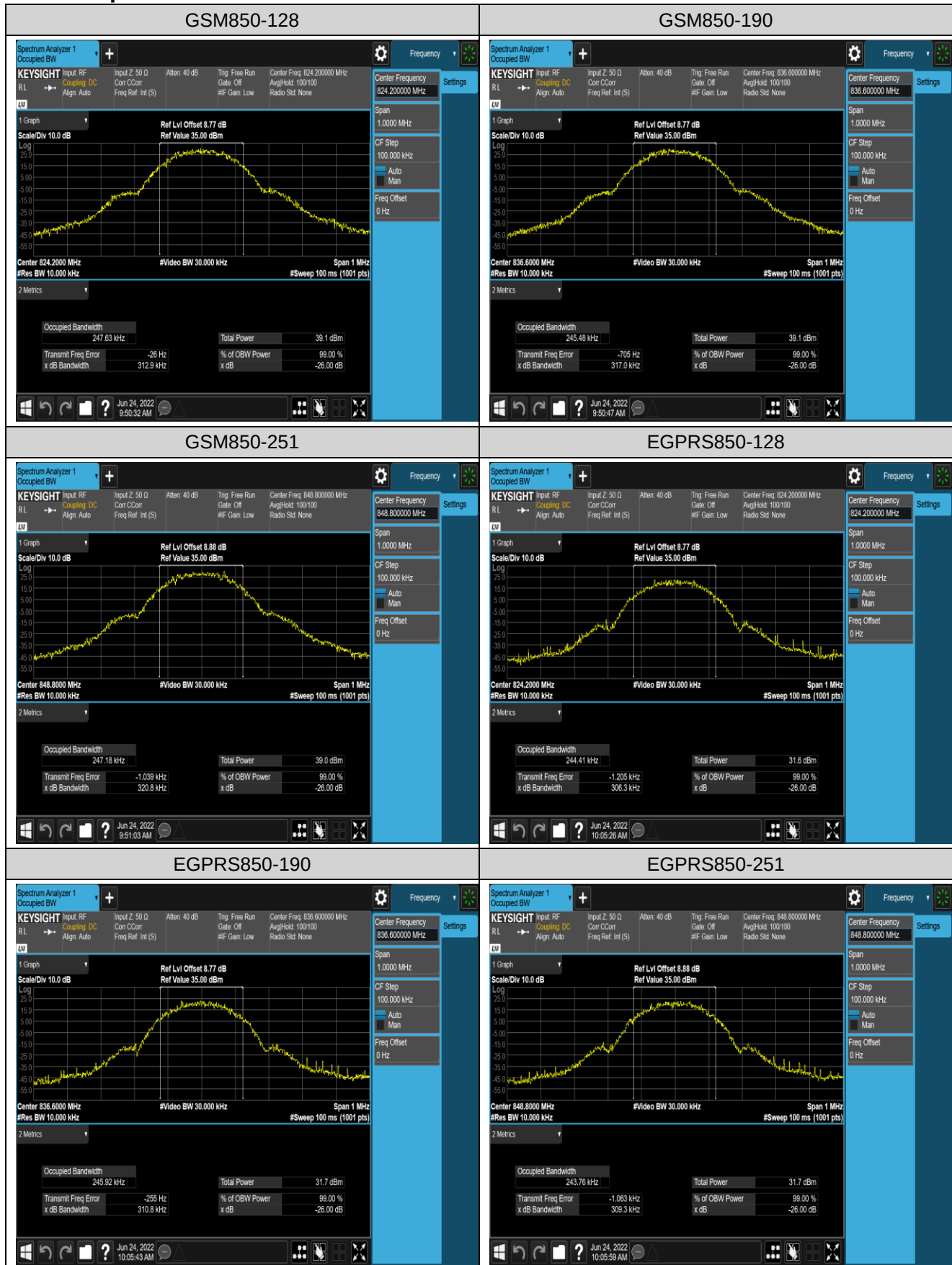


Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	5	0.24763	0.3129	---	PASS
GSM850	190	5	0.24548	0.3170	---	PASS
GSM850	251	5	0.24718	0.3208	---	PASS
EGPRS850	128	8	0.24441	0.3063	---	PASS
EGPRS850	190	8	0.24592	0.3108	---	PASS
EGPRS850	251	8	0.24376	0.3093	---	PASS
GSM1900	512	0	0.24865	0.3181	---	PASS
GSM1900	661	0	0.24384	0.3159	---	PASS
GSM1900	810	0	0.24316	0.3138	---	PASS
EGPRS1900	512	2	0.24652	0.3150	---	PASS
EGPRS1900	661	2	0.24862	0.3190	---	PASS
EGPRS1900	810	2	0.24881	0.3108	---	PASS

Test Graphs

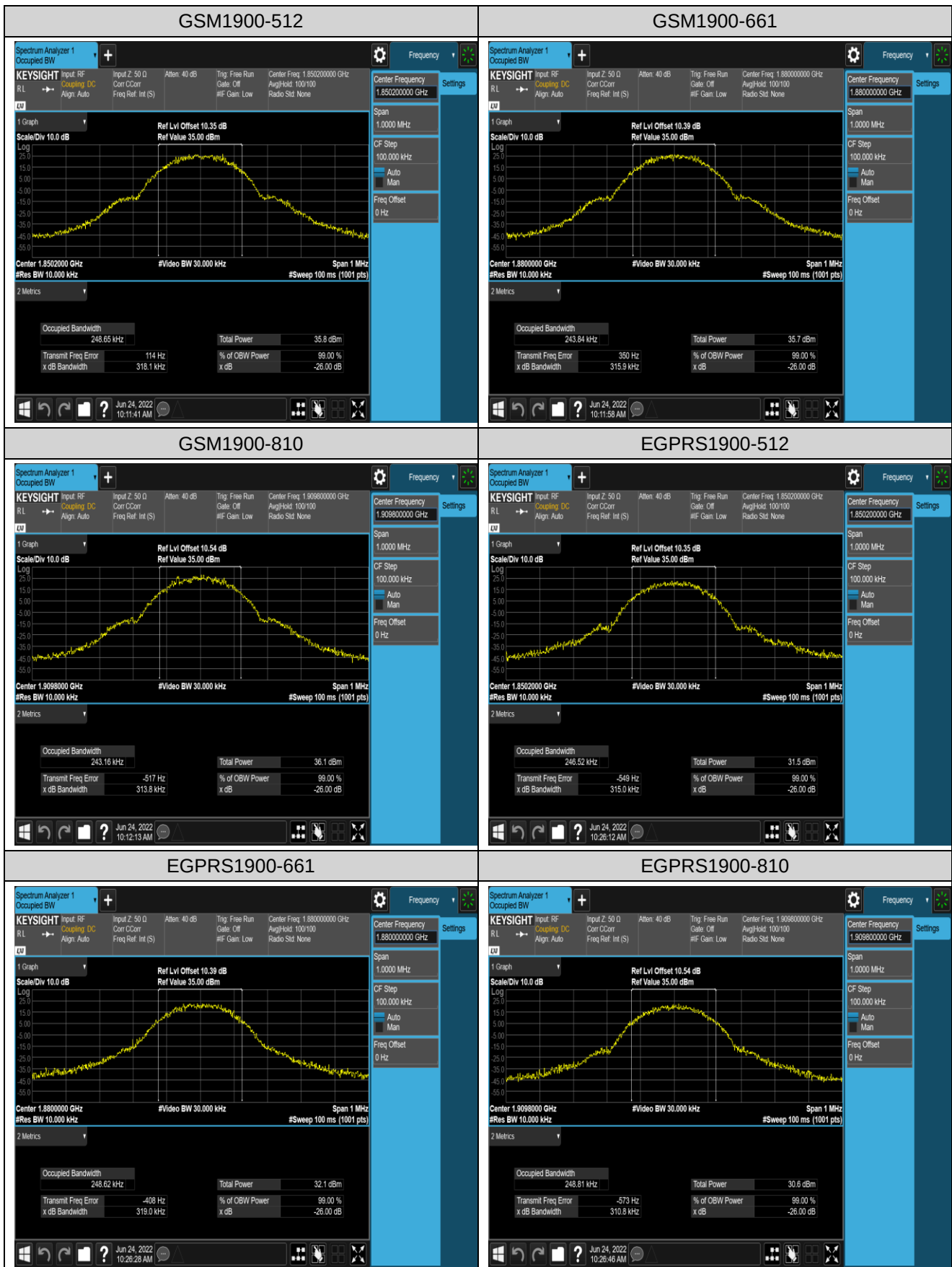


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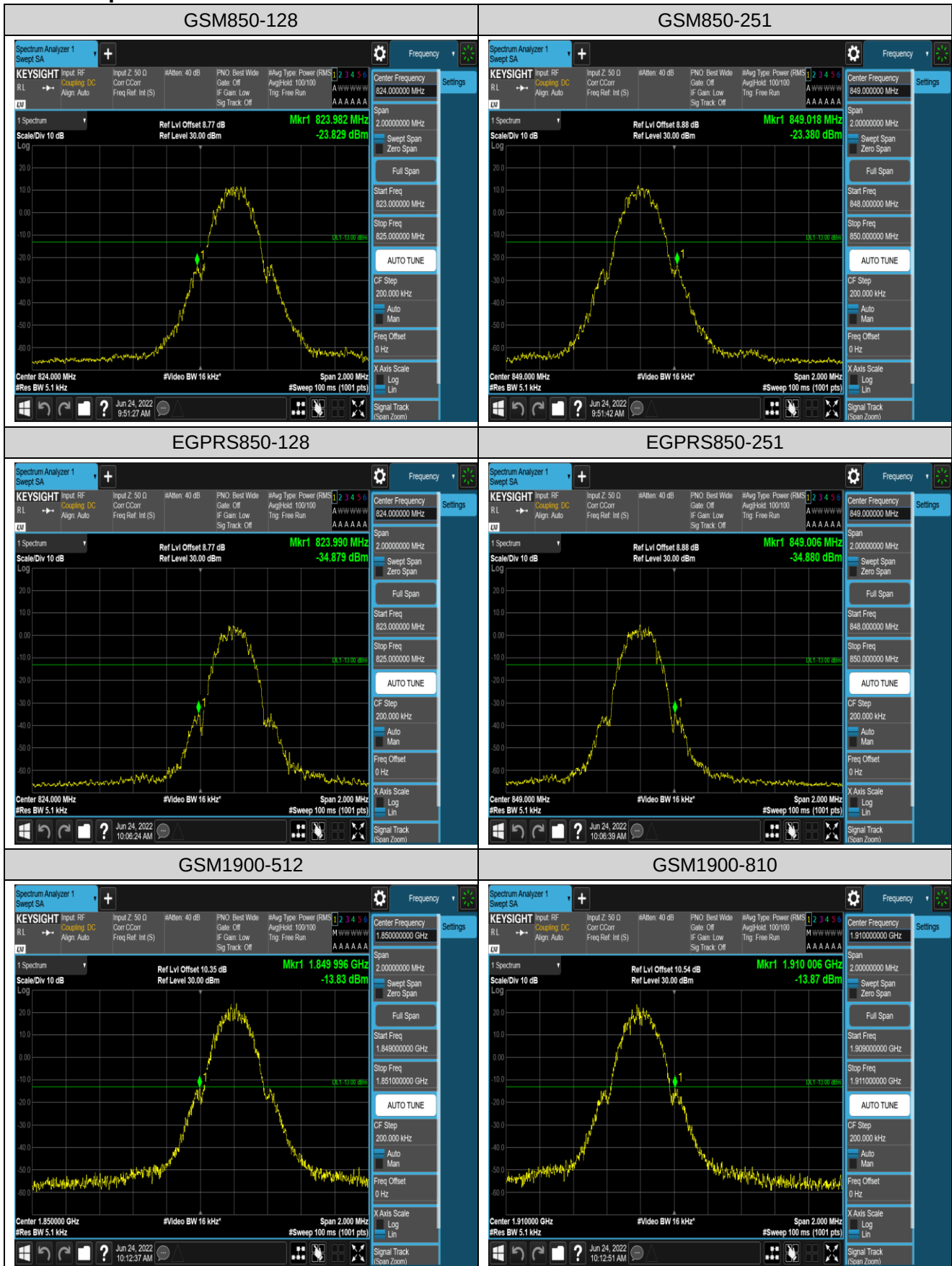


Appendix D: Band Edge

Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	5	823.98	-23.83	-13	PASS
GSM850	251	5	849.02	-23.38	-13	PASS
EGPRS850	128	8	823.99	-34.88	-13	PASS
EGPRS850	251	8	849.01	-34.88	-13	PASS
GSM1900	512	0	1850.00	-13.83	-13	PASS
GSM1900	810	0	1910.01	-13.87	-13	PASS
EGPRS1900	512	2	1849.99	-22.36	-13	PASS
EGPRS1900	810	2	1910.03	-22.91	-13	PASS

Test Graphs

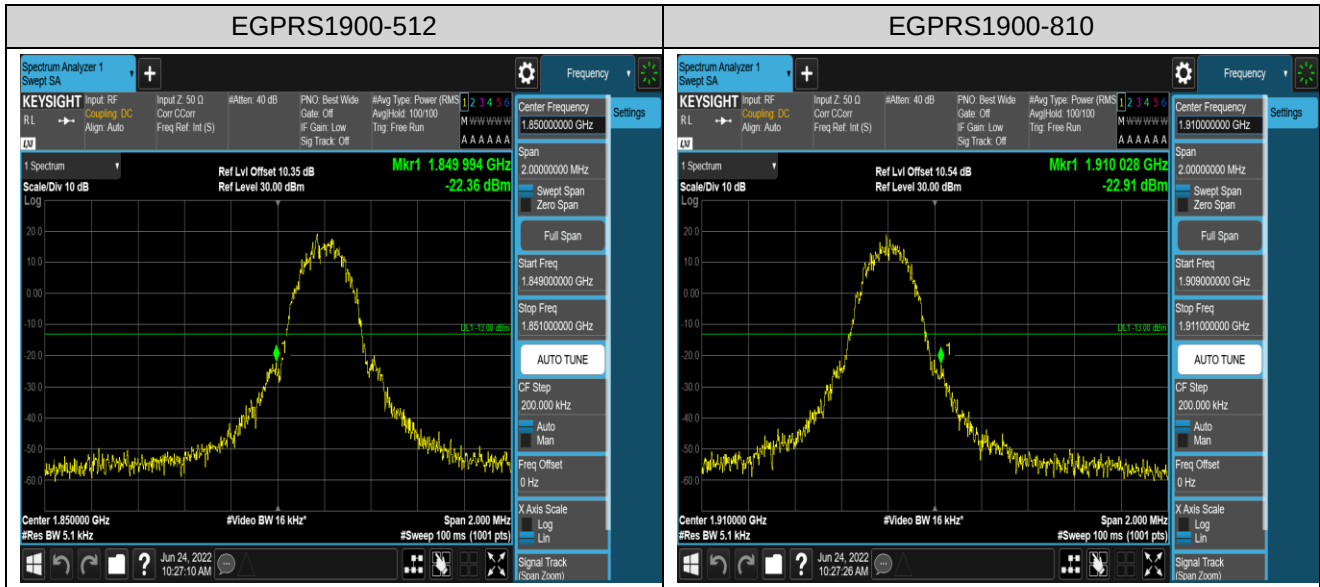


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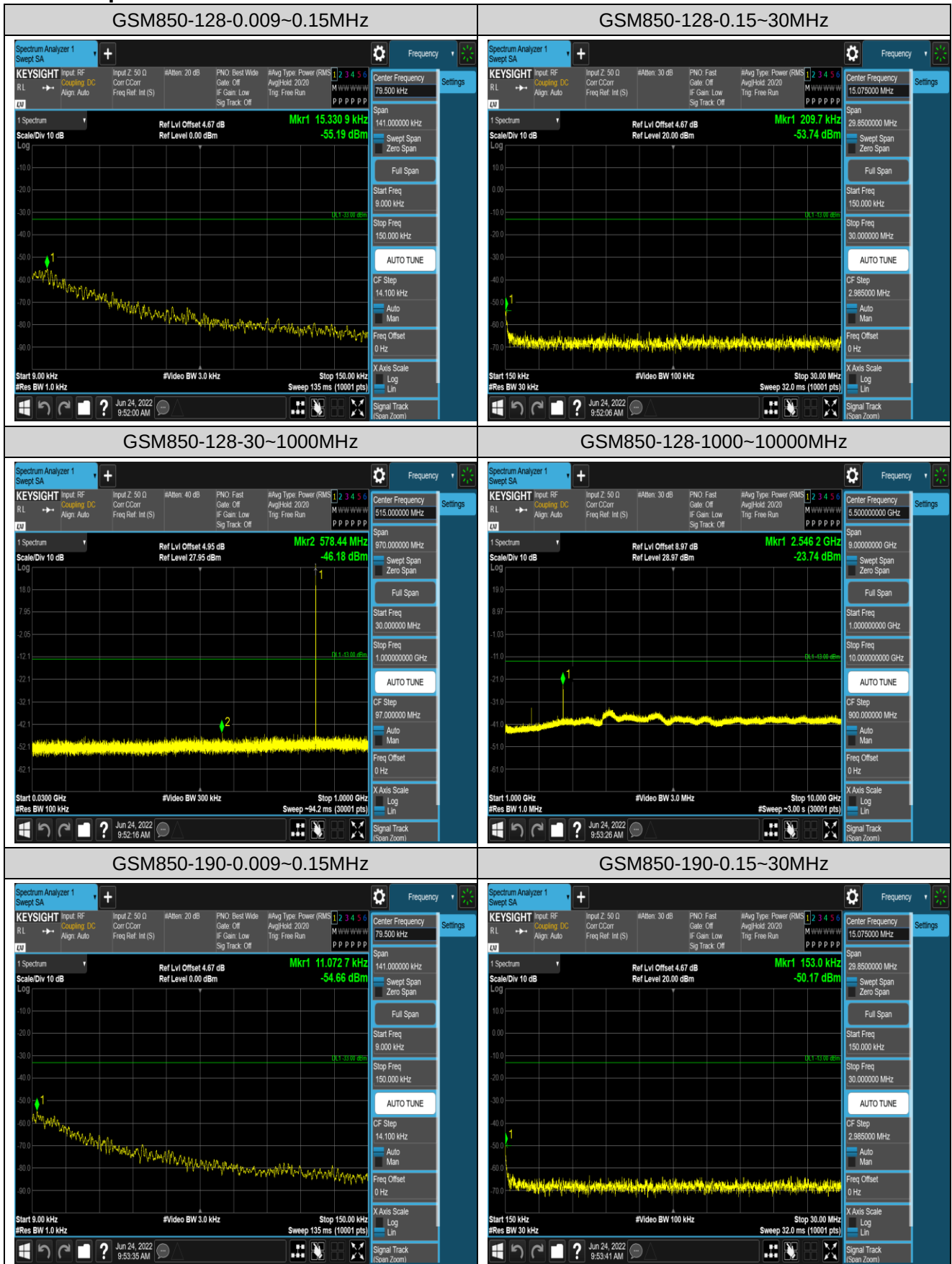
Appendix E: Conducted Spurious Emission

Test Result

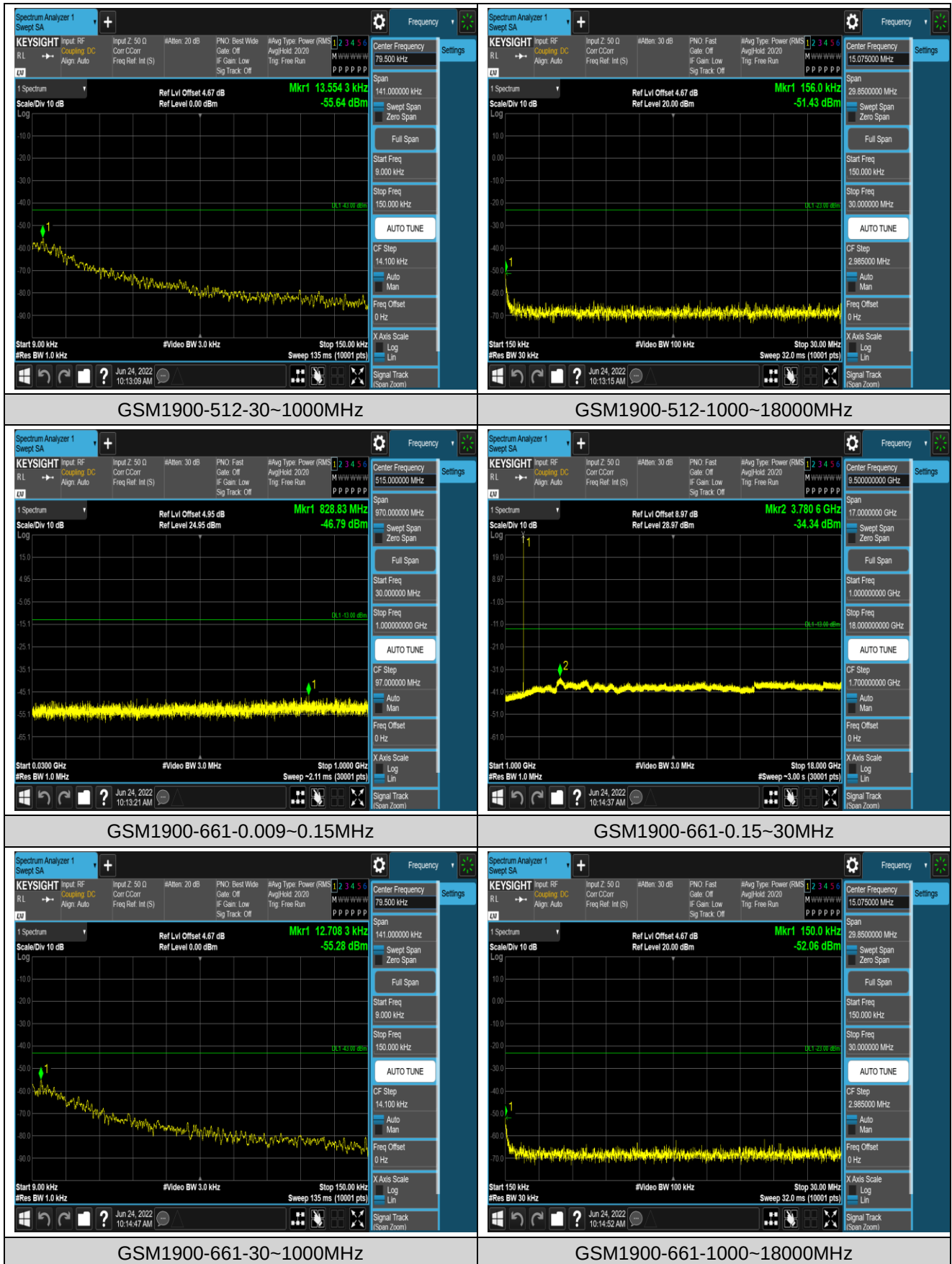
Band	Channel	PCL	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	5	0.009~0.15MHz	0.02	-55.19	-33	PASS
GSM850	128	5	0.15~30MHz	0.21	-53.74	-13	PASS
GSM850	128	5	30~1000MHz	578.44	-46.18	-13	PASS
GSM850	128	5	1000~10000MHz	2546.2	-23.74	-13	PASS
GSM850	190	5	0.009~0.15MHz	0.01	-54.66	-33	PASS
GSM850	190	5	0.15~30MHz	0.15	-50.17	-13	PASS
GSM850	190	5	30~1000MHz	985.77	-46.56	-13	PASS
GSM850	190	5	1000~10000MHz	2546.5	-23.85	-13	PASS
GSM850	251	5	0.009~0.15MHz	0.01	-55.57	-33	PASS
GSM850	251	5	0.15~30MHz	0.15	-51.23	-13	PASS
GSM850	251	5	30~1000MHz	546.36	-46.42	-13	PASS
GSM850	251	5	1000~10000MHz	2546.5	-23.73	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-55.64	-43	PASS
GSM1900	512	0	0.15~30MHz	0.16	-51.43	-23	PASS
GSM1900	512	0	30~1000MHz	828.83	-46.79	-13	PASS
GSM1900	512	0	1000~18000MHz	3780.63	-34.34	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-55.28	-43	PASS
GSM1900	661	0	0.15~30MHz	0.15	-52.06	-23	PASS
GSM1900	661	0	30~1000MHz	859.41	-46.07	-13	PASS
GSM1900	661	0	1000~18000MHz	3820.3	-34.42	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-58.17	-43	PASS
GSM1900	810	0	0.15~30MHz	0.15	-49.17	-23	PASS
GSM1900	810	0	30~1000MHz	909.92	-46	-13	PASS
GSM1900	810	0	1000~18000MHz	3836.17	-34.37	-13	PASS

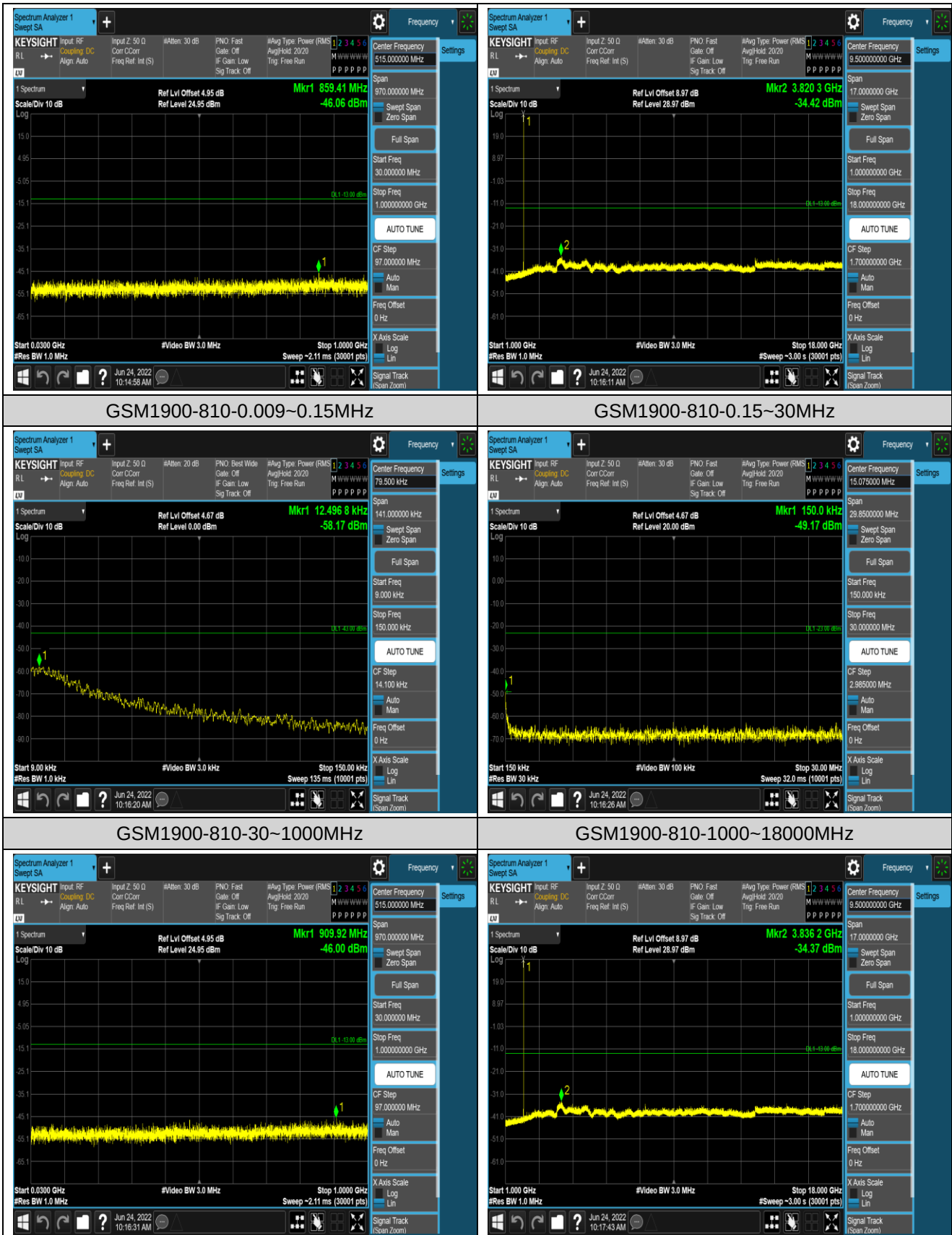
Remark: All channel and all modulation had been tested, but only the worst case data displayed in this report.

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		
3.80	-30	11.59	0.013854	±2.5	Pass
	-20	11.88	0.014200		
	-10	8.75	0.010459		
	0	9.65	0.011535		
	10	6.30	0.007530		
	20	13.75	0.016436		
	30	8.46	0.010112		
	40	5.78	0.006909		
	50	7.62	0.009108		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	10.72	0.012814	±2.5	Pass
	3.80	8.72	0.010423		
	4.35	6.23	0.007447		
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		
3.80	-30	17.05	0.020380	±2.5	Pass
	-20	22.12	0.026440		
	-10	14.14	0.016902		
	0	18.14	0.021683		
	10	14.46	0.017284		
	20	14.21	0.016985		
	30	21.24	0.025388		
	40	8.27	0.009885		
	50	16.18	0.019340		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	17.05	0.020380	±2.5	Pass
	3.80	14.98	0.017906		
	4.35	17.56	0.020990		
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		
3.80	-30	9.04	0.004809	Within authorized band for PCS 1900	Pass
	-20	5.91	0.003144		
	-10	6.13	0.003261		
	0	7.81	0.004154		
	10	4.75	0.002527		
	20	4.33	0.002303		
	30	5.46	0.002904		
	40	7.68	0.004085		
	50	6.26	0.003330		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	2.58	0.001372	Within authorized band for PCS 1900	Pass
	3.80	8.78	0.004670		
	4.35	0.87	0.000463		
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		
3.80	-30	-5.33	-0.002835	Within authorized band for PCS 1900	Pass
	-20	-8.81	-0.004686		
	-10	1.00	0.000532		
	0	-2.94	-0.001564		
	10	1.71	0.000910		
	20	-9.14	-0.004862		
	30	3.20	0.001702		
	40	-1.42	-0.000755		
	50	10.14	0.005394		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	-2.00	-0.001064	Within authorized band for PCS 1900	Pass
	3.80	-3.91	-0.002080		
	4.35	-2.65	-0.001410		
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

