

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	33.25	28.20	38.5	PASS
GSM850	190	5	33.29	28.24	38.5	PASS
GSM850	251	5	33.27	28.22	38.5	PASS
GSM1900	512	0	29.91	29.01	33	PASS
GSM1900	661	0	30.04	29.14	33	PASS
GSM1900	810	0	30.04	29.14	33	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	5	1	33.30	28.25	38.5	PASS
GPRS850	128	5	2	32.30	27.25	38.5	PASS
GPRS850	128	5	3	30.28	25.23	38.5	PASS
GPRS850	128	5	4	29.15	24.10	38.5	PASS
GPRS850	190	5	1	33.23	28.18	38.5	PASS
GPRS850	190	5	2	32.28	27.23	38.5	PASS
GPRS850	190	5	3	30.22	25.17	38.5	PASS
GPRS850	190	5	4	29.10	24.05	38.5	PASS
GPRS850	251	5	1	33.21	28.16	38.5	PASS
GPRS850	251	5	2	32.26	27.21	38.5	PASS
GPRS850	251	5	3	30.21	25.16	38.5	PASS
GPRS850	251	5	4	29.10	24.05	38.5	PASS
GPRS1900	512	0	1	29.91	29.01	33	PASS
GPRS1900	512	0	2	28.93	28.03	33	PASS
GPRS1900	512	0	3	26.88	25.98	33	PASS
GPRS1900	512	0	4	25.78	24.88	33	PASS
GPRS1900	661	0	1	30.04	29.14	33	PASS
GPRS1900	661	0	2	29.10	28.20	33	PASS
GPRS1900	661	0	3	27.10	26.20	33	PASS
GPRS1900	661	0	4	26.00	25.10	33	PASS
GPRS1900	810	0	1	30.04	29.14	33	PASS
GPRS1900	810	0	2	29.12	28.22	33	PASS
GPRS1900	810	0	3	27.14	26.24	33	PASS
GPRS1900	810	0	4	26.06	25.16	33	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
EGPRS850	128	8	1	28.06	23.01	38.5	PASS
EGPRS850	128	8	2	26.95	21.90	38.5	PASS
EGPRS850	128	8	3	24.60	19.55	38.5	PASS
EGPRS850	128	8	4	23.35	18.30	38.5	PASS
EGPRS850	190	8	1	27.70	22.65	38.5	PASS
EGPRS850	190	8	2	26.74	21.69	38.5	PASS
EGPRS850	190	8	3	24.51	19.46	38.5	PASS
EGPRS850	190	8	4	23.13	18.08	38.5	PASS
EGPRS850	251	8	1	27.80	22.75	38.5	PASS
EGPRS850	251	8	2	26.81	21.76	38.5	PASS
EGPRS850	251	8	3	24.59	19.54	38.5	PASS
EGPRS850	251	8	4	23.22	18.17	38.5	PASS
EGPRS1900	512	2	1	25.68	24.78	33	PASS
EGPRS1900	512	2	2	24.60	23.70	33	PASS
EGPRS1900	512	2	3	22.66	21.76	33	PASS
EGPRS1900	512	2	4	21.68	20.78	33	PASS
EGPRS1900	661	2	1	25.94	25.04	33	PASS
EGPRS1900	661	2	2	24.92	24.02	33	PASS
EGPRS1900	661	2	3	23.00	22.10	33	PASS
EGPRS1900	661	2	4	21.93	21.03	33	PASS
EGPRS1900	810	2	1	26.07	25.17	33	PASS
EGPRS1900	810	2	2	25.10	24.20	33	PASS
EGPRS1900	810	2	3	23.12	22.22	33	PASS
EGPRS1900	810	2	4	22.10	21.20	33	PASS

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

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

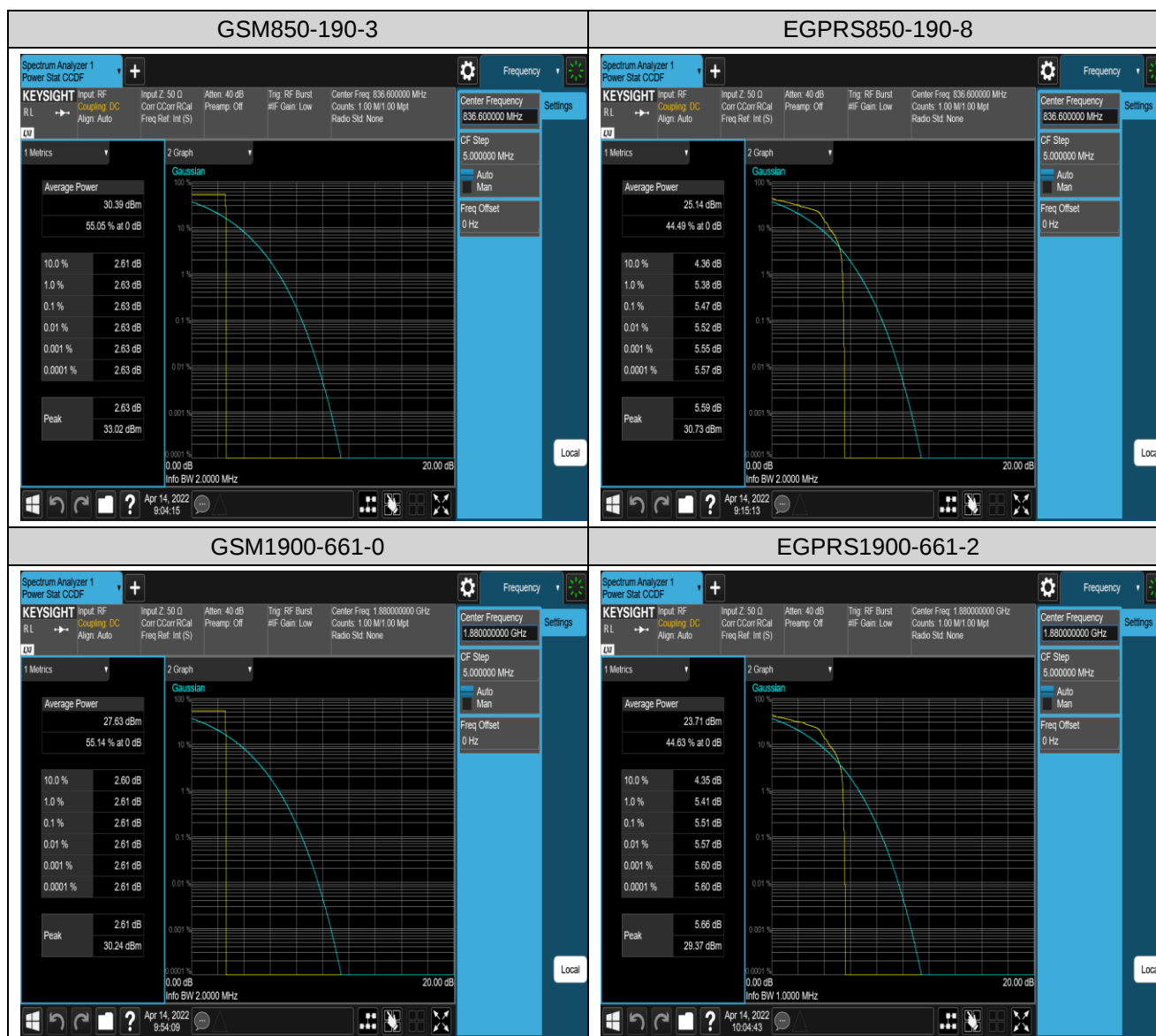
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	PCL	Result(dB)	Limit(dB)	Verdict
GSM850	190	5	2.63	13	PASS
EGPRS850	190	8	5.47	13	PASS
GSM1900	661	0	2.61	13	PASS
EGPRS1900	661	2	5.51	13	PASS

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

Test Graphs

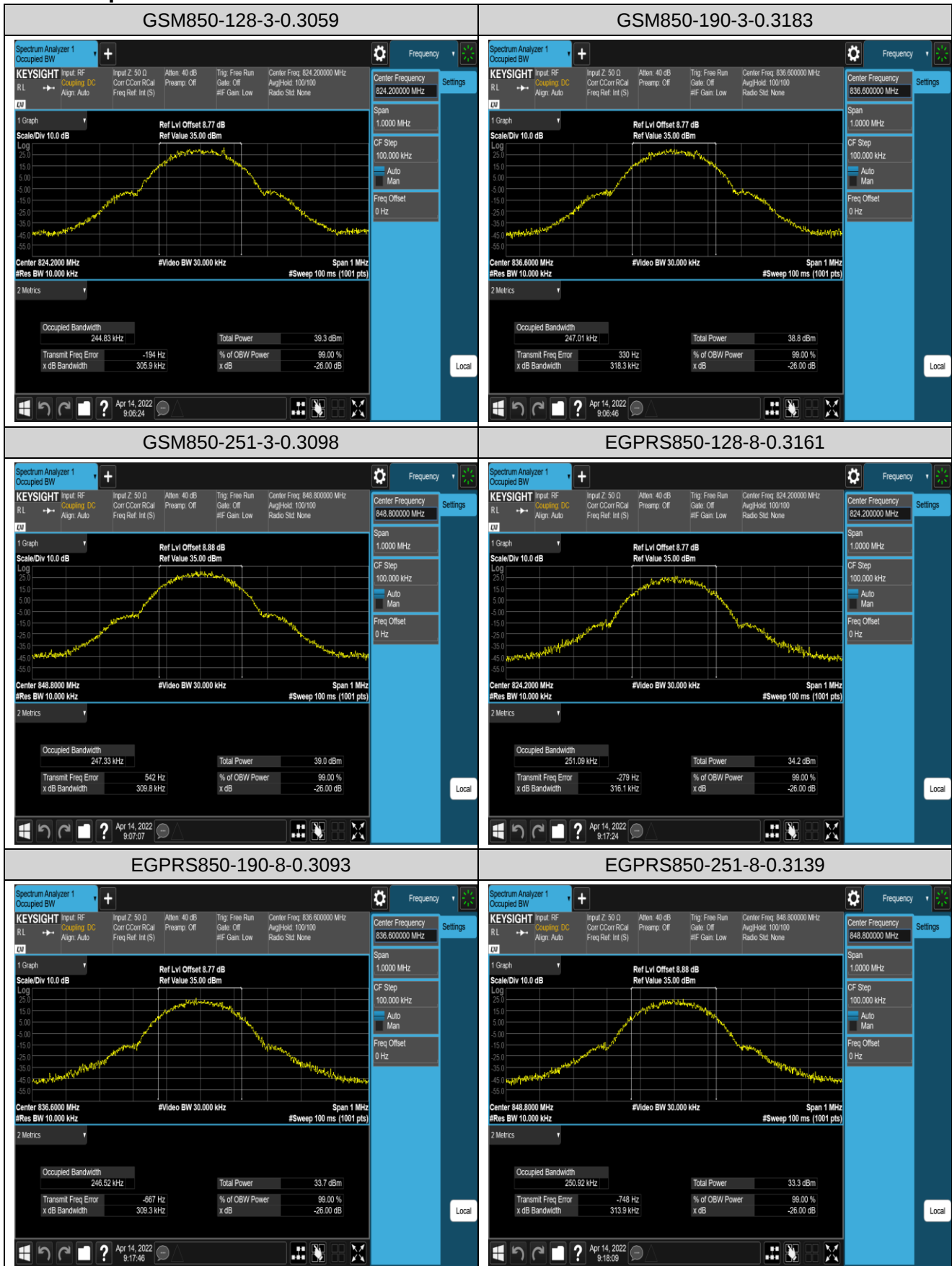


Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	5	0.24483	0.3059	---	PASS
GSM850	190	5	0.24701	0.3183	---	PASS
GSM850	251	5	0.24733	0.3098	---	PASS
EGPRS850	128	8	0.25109	0.3161	---	PASS
EGPRS850	190	8	0.24652	0.3093	---	PASS
EGPRS850	251	8	0.25092	0.3139	---	PASS
GSM1900	512	0	0.24392	0.3094	---	PASS
GSM1900	661	0	0.24575	0.3117	---	PASS
GSM1900	810	0	0.24714	0.3187	---	PASS
EGPRS1900	512	2	0.24894	0.3128	---	PASS
EGPRS1900	661	2	0.24900	0.3154	---	PASS
EGPRS1900	810	2	0.25215	0.3109	---	PASS

Test Graphs

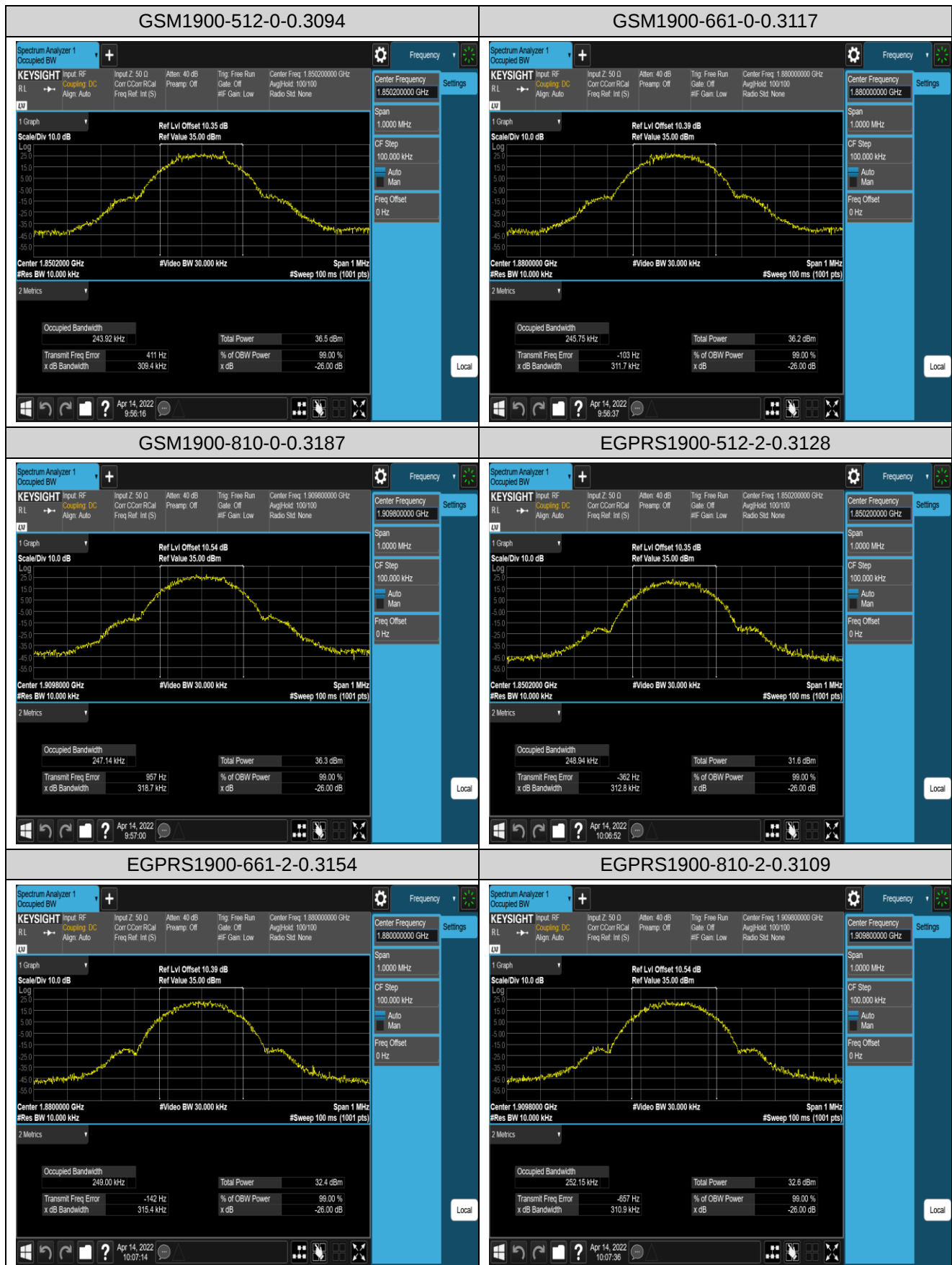


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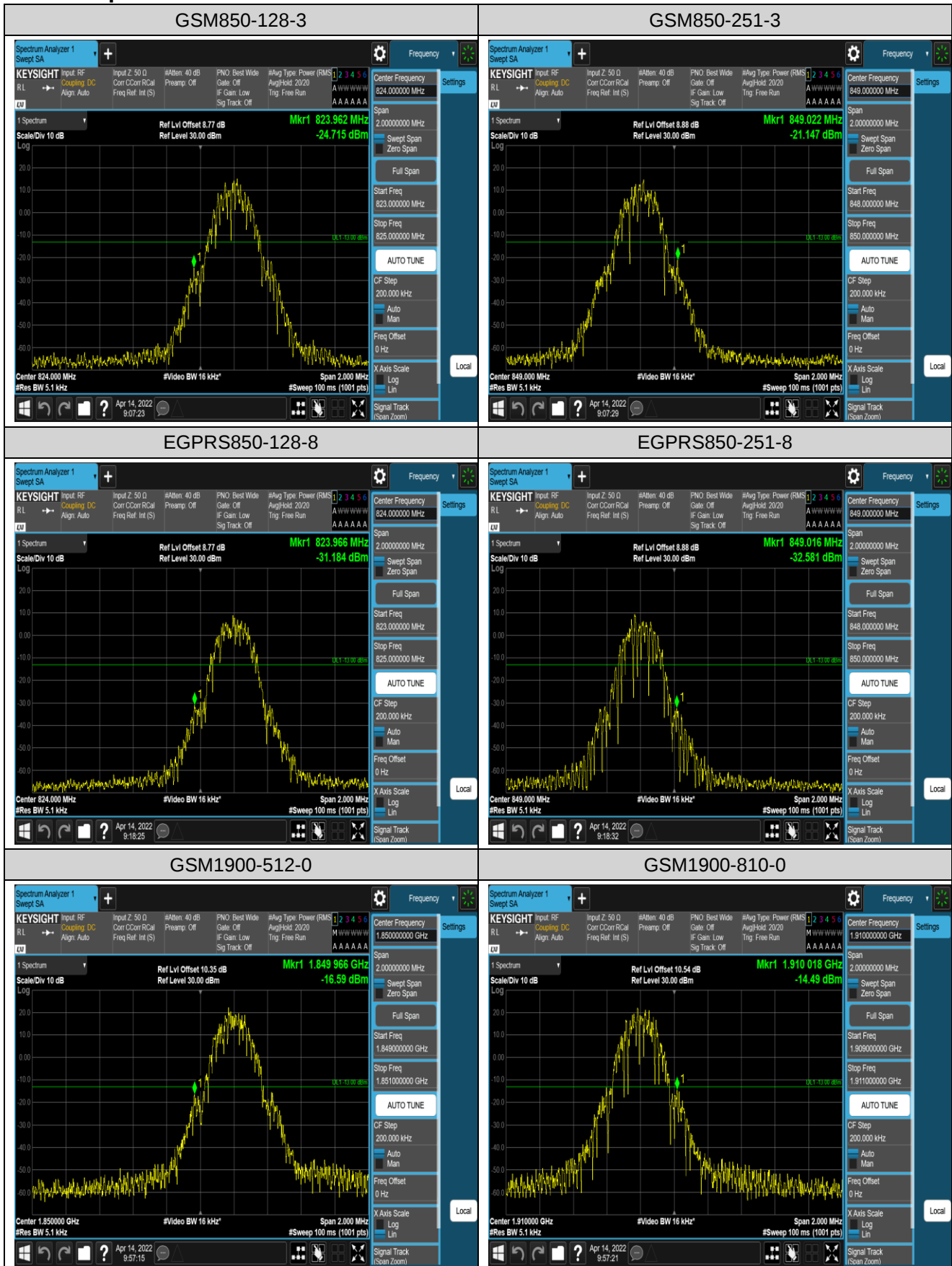


Appendix D: Band Edge

Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	5	823.96	-24.71	-13	PASS
GSM850	251	5	849.02	-21.15	-13	PASS
EGPRS850	128	8	823.97	-31.18	-13	PASS
EGPRS850	251	8	849.02	-32.58	-13	PASS
GSM1900	512	0	1849.97	-16.59	-13	PASS
GSM1900	810	0	1910.02	-14.49	-13	PASS
EGPRS1900	512	2	1849.98	-25.11	-13	PASS
EGPRS1900	810	2	1910.00	-25.56	-13	PASS

Test Graphs

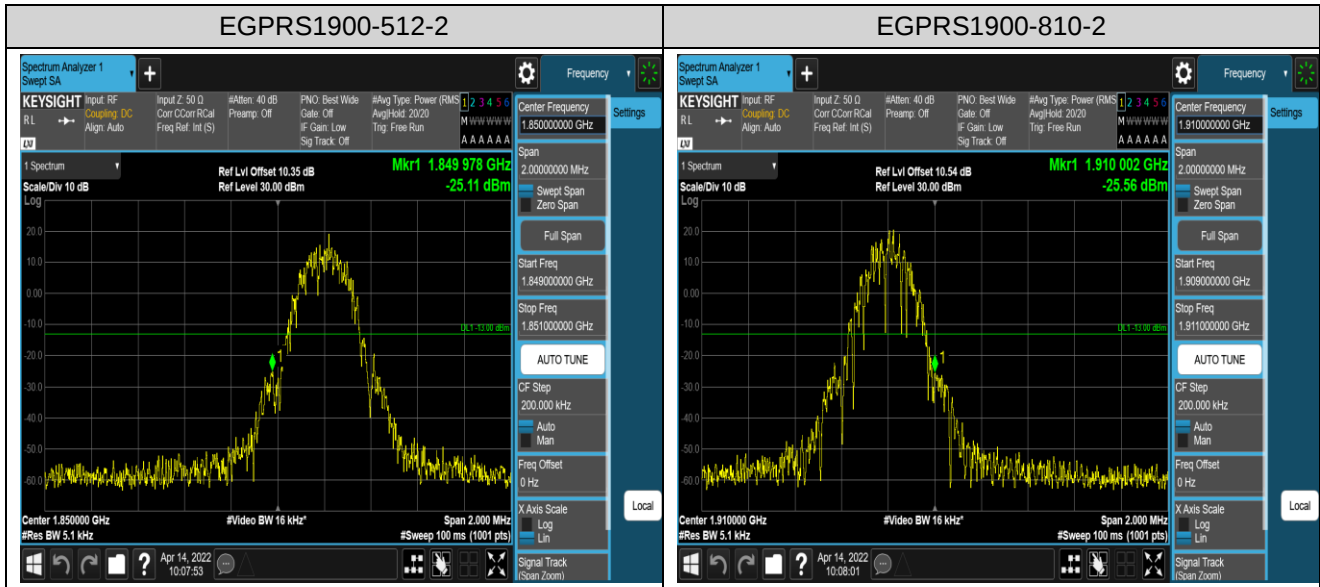


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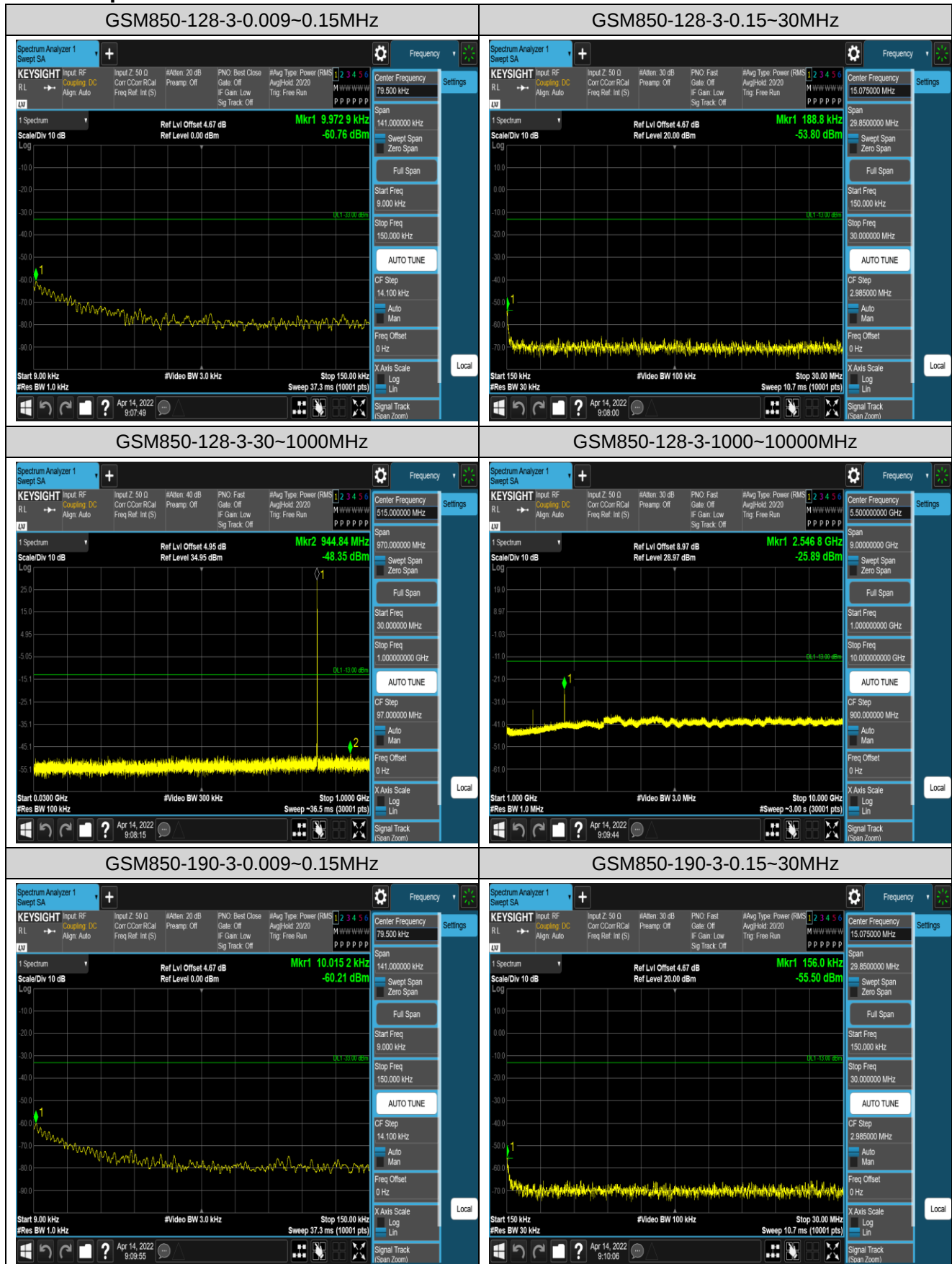
Appendix E: Conducted Spurious Emission

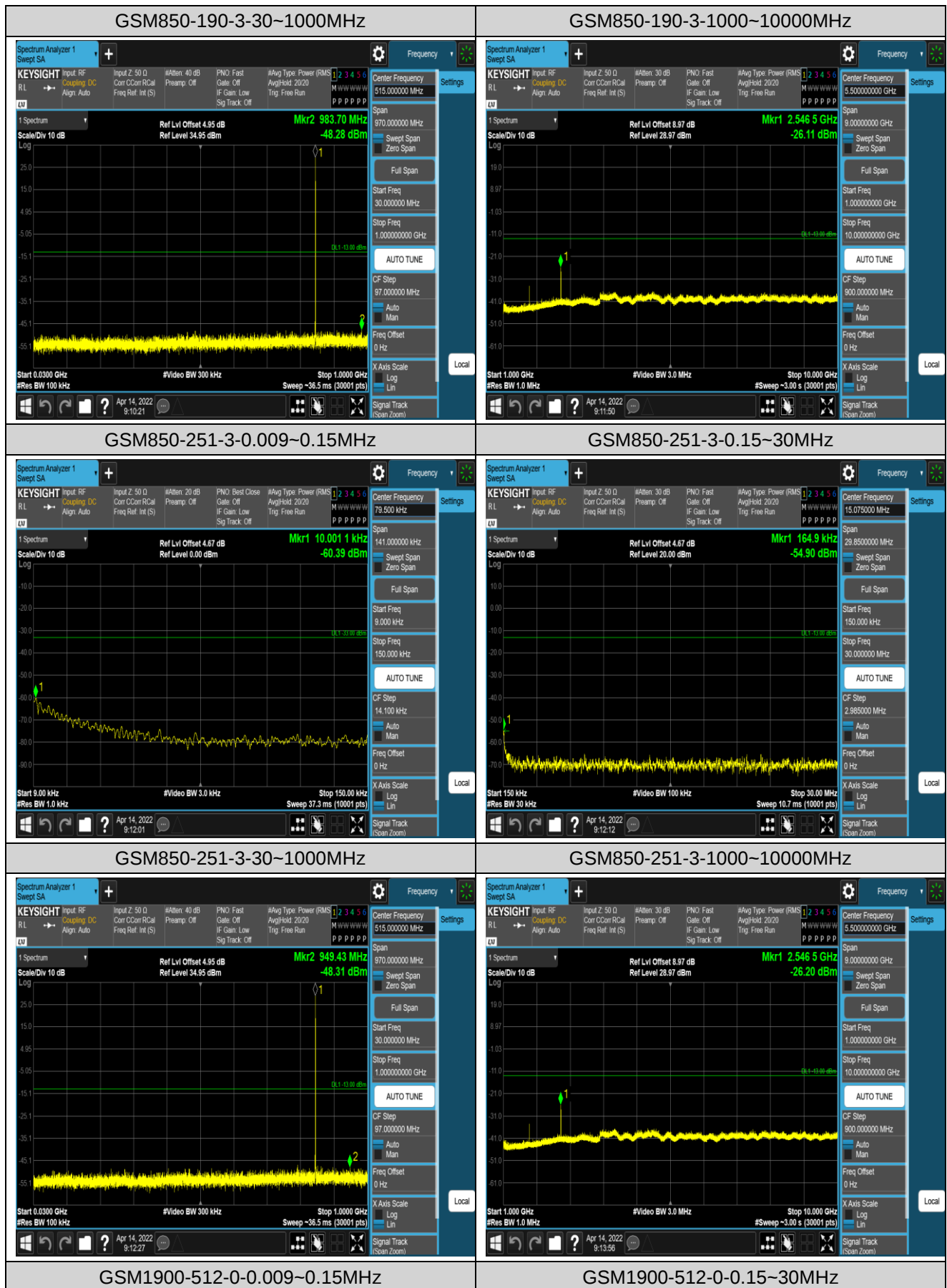
Test Result

Band	Channel	PCL	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	5	0.009~0.15MHz	0.01	-60.76	-33	PASS
GSM850	128	5	0.15~30MHz	0.19	-53.8	-13	PASS
GSM850	128	5	30~1000MHz	944.84	-48.35	-13	PASS
GSM850	128	5	1000~10000MHz	2546.8	-25.89	-13	PASS
GSM850	190	5	0.009~0.15MHz	0.01	-60.21	-33	PASS
GSM850	190	5	0.15~30MHz	0.16	-55.5	-13	PASS
GSM850	190	5	30~1000MHz	983.7	-48.28	-13	PASS
GSM850	190	5	1000~10000MHz	2546.5	-26.11	-13	PASS
GSM850	251	5	0.009~0.15MHz	0.01	-60.39	-33	PASS
GSM850	251	5	0.15~30MHz	0.16	-54.9	-13	PASS
GSM850	251	5	30~1000MHz	949.43	-48.31	-13	PASS
GSM850	251	5	1000~10000MHz	2546.5	-26.2	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-68.79	-43	PASS
GSM1900	512	0	0.15~30MHz	0.16	-53.06	-23	PASS
GSM1900	512	0	30~1000MHz	898.67	-47.18	-13	PASS
GSM1900	512	0	1000~18000MHz	13369.2	-34.56	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-70.3	-43	PASS
GSM1900	661	0	0.15~30MHz	0.15	-51.78	-23	PASS
GSM1900	661	0	30~1000MHz	866.43	-47.05	-13	PASS
GSM1900	661	0	1000~18000MHz	13369.2	-34.26	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-70.16	-43	PASS
GSM1900	810	0	0.15~30MHz	0.16	-54.5	-23	PASS
GSM1900	810	0	30~1000MHz	909.31	-47.78	-13	PASS
GSM1900	810	0	1000~18000MHz	13368.63	-34.29	-13	PASS

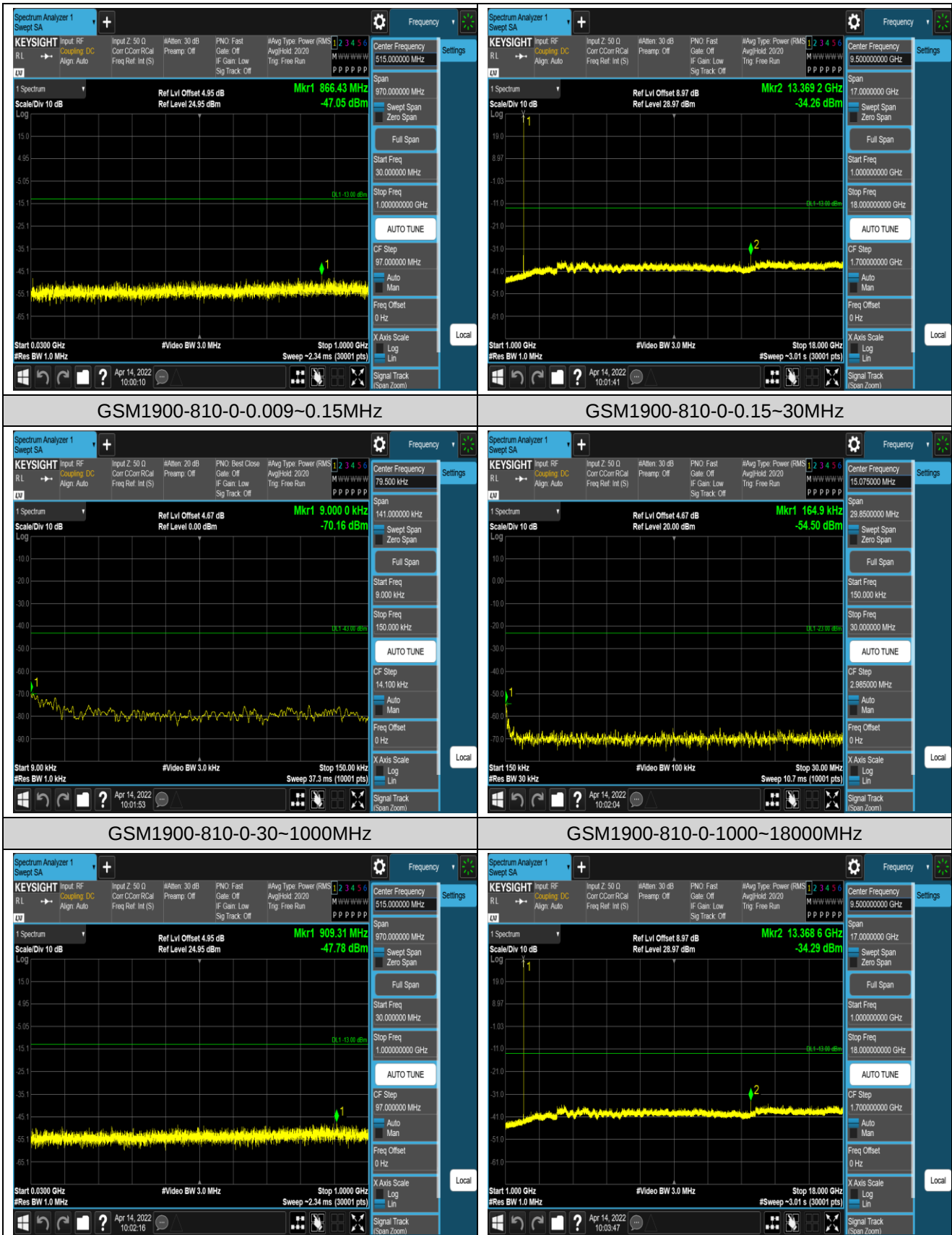
Remark: All channel and all modulation had been tested, but only the worst case data displayed in this report.

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	-6.94	-0.008295	±2.5	Pass
	-20	-2.87	-0.003431		
	-10	-1.19	-0.001422		
	0	10.01	0.011965		
	10	16.63	0.019878		
	20	11.59	0.013854		
	30	-12.53	-0.014977		
	40	-14.69	-0.017559		
	50	-11.14	-0.013316		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	-8.68	-0.010375	±2.5	Pass
	3.85	-9.62	-0.011499		
	4.40	-4.94	-0.005905		
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	-9.78	-0.011690	±2.5	Pass
	-20	-8.10	-0.009682		
	-10	-8.17	-0.009766		
	0	-4.52	-0.005403		
	10	-10.56	-0.012623		
	20	-9.78	-0.011690		
	30	-7.52	-0.008989		
	40	-4.65	-0.005558		
	50	-5.46	-0.006526		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	-12.24	-0.014631	±2.5	Pass
	3.85	-13.92	-0.016639		
	4.40	-13.01	-0.015551		
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	11.30	0.006011	Within authorized band for PCS 1900	Pass
	-20	5.13	0.002729		
	-10	5.84	0.003106		
	0	6.39	0.003399		
	10	7.88	0.004191		
	20	13.20	0.007021		
	30	18.53	0.009856		
	40	14.53	0.007729		
	50	20.02	0.010649		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	9.78	0.005202	Within authorized band for PCS 1900	Pass
	3.85	22.41	0.011920		
	4.40	9.85	0.005239		
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	8.62	0.004585	Within authorized band for PCS 1900	Pass
	-20	11.62	0.006181		
	-10	-13.08	-0.006957		
	0	-7.62	-0.004053		
	10	-1.81	-0.000963		
	20	-2.36	-0.001255		
	30	4.94	0.002628		
	40	9.20	0.004894		
	50	12.66	0.006734		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	10.56	0.005617	Within authorized band for PCS 1900	Pass
	3.85	14.59	0.007761		
	4.40	5.81	0.003090		
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

