

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	3	33.34	27.29	38.5	PASS
GSM850	190	3	33.58	27.53	38.5	PASS
GSM850	251	3	33.68	27.63	38.5	PASS
GSM1900	512	0	30.41	30.71	33	PASS
GSM1900	661	0	30.41	30.71	33	PASS
GSM1900	810	0	30.30	30.60	33	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	3	1	33.37	27.32	38.5	PASS
GPRS850	128	3	2	32.30	26.25	38.5	PASS
GPRS850	128	3	3	30.23	24.18	38.5	PASS
GPRS850	128	3	4	29.08	23.03	38.5	PASS
GPRS850	190	3	1	33.50	27.45	38.5	PASS
GPRS850	190	3	2	32.52	26.47	38.5	PASS
GPRS850	190	3	3	30.47	24.42	38.5	PASS
GPRS850	190	3	4	29.32	23.27	38.5	PASS
GPRS850	251	3	1	33.60	27.55	38.5	PASS
GPRS850	251	3	2	32.62	26.57	38.5	PASS
GPRS850	251	3	3	30.59	24.54	38.5	PASS
GPRS850	251	3	4	29.43	23.38	38.5	PASS
GPRS1900	512	0	1	30.41	30.71	33	PASS
GPRS1900	512	0	2	29.40	29.70	33	PASS
GPRS1900	512	0	3	27.34	27.64	33	PASS
GPRS1900	512	0	4	26.21	26.51	33	PASS
GPRS1900	661	0	1	30.40	30.70	33	PASS
GPRS1900	661	0	2	29.43	29.73	33	PASS
GPRS1900	661	0	3	27.38	27.68	33	PASS
GPRS1900	661	0	4	26.27	26.57	33	PASS
GPRS1900	810	0	1	30.29	30.59	33	PASS
GPRS1900	810	0	2	29.35	29.65	33	PASS
GPRS1900	810	0	3	27.34	27.64	33	PASS
GPRS1900	810	0	4	26.25	26.55	33	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
EGPRS850	128	8	1	27.24	21.19	38.5	PASS
EGPRS850	128	8	2	25.95	19.90	38.5	PASS
EGPRS850	128	8	3	23.78	17.73	38.5	PASS
EGPRS850	128	8	4	22.41	16.36	38.5	PASS
EGPRS850	190	8	1	27.27	21.22	38.5	PASS
EGPRS850	190	8	2	26.12	20.07	38.5	PASS
EGPRS850	190	8	3	23.95	17.90	38.5	PASS
EGPRS850	190	8	4	22.66	16.61	38.5	PASS
EGPRS850	251	8	1	27.14	21.09	38.5	PASS
EGPRS850	251	8	2	25.99	19.94	38.5	PASS
EGPRS850	251	8	3	23.81	17.76	38.5	PASS
EGPRS850	251	8	4	22.58	16.53	38.5	PASS
EGPRS1900	512	2	1	26.21	26.51	33	PASS
EGPRS1900	512	2	2	25.22	25.52	33	PASS
EGPRS1900	512	2	3	23.16	23.46	33	PASS
EGPRS1900	512	2	4	22.18	22.48	33	PASS
EGPRS1900	661	2	1	26.17	26.47	33	PASS
EGPRS1900	661	2	2	25.24	25.54	33	PASS
EGPRS1900	661	2	3	23.24	23.54	33	PASS
EGPRS1900	661	2	4	22.18	22.48	33	PASS
EGPRS1900	810	2	1	26.36	26.66	33	PASS
EGPRS1900	810	2	2	25.45	25.75	33	PASS
EGPRS1900	810	2	3	23.41	23.71	33	PASS
EGPRS1900	810	2	4	22.41	22.71	33	PASS

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

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

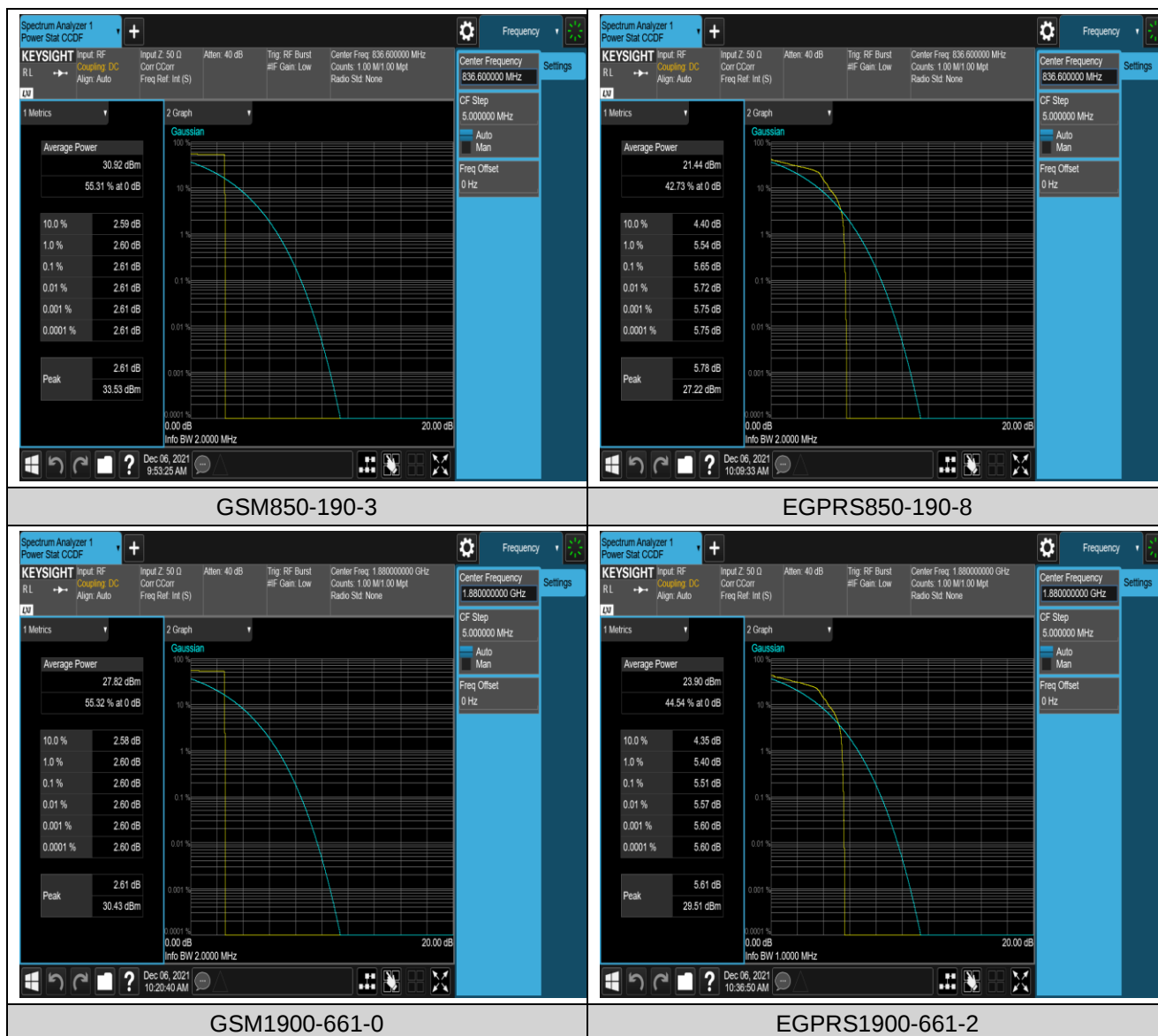
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	PCL	Result(dB)	Limit(dB)	Verdict
GSM850	190	3	2.61	13	PASS
EGPRS850	190	8	5.65	13	PASS
GSM1900	661	0	2.6	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

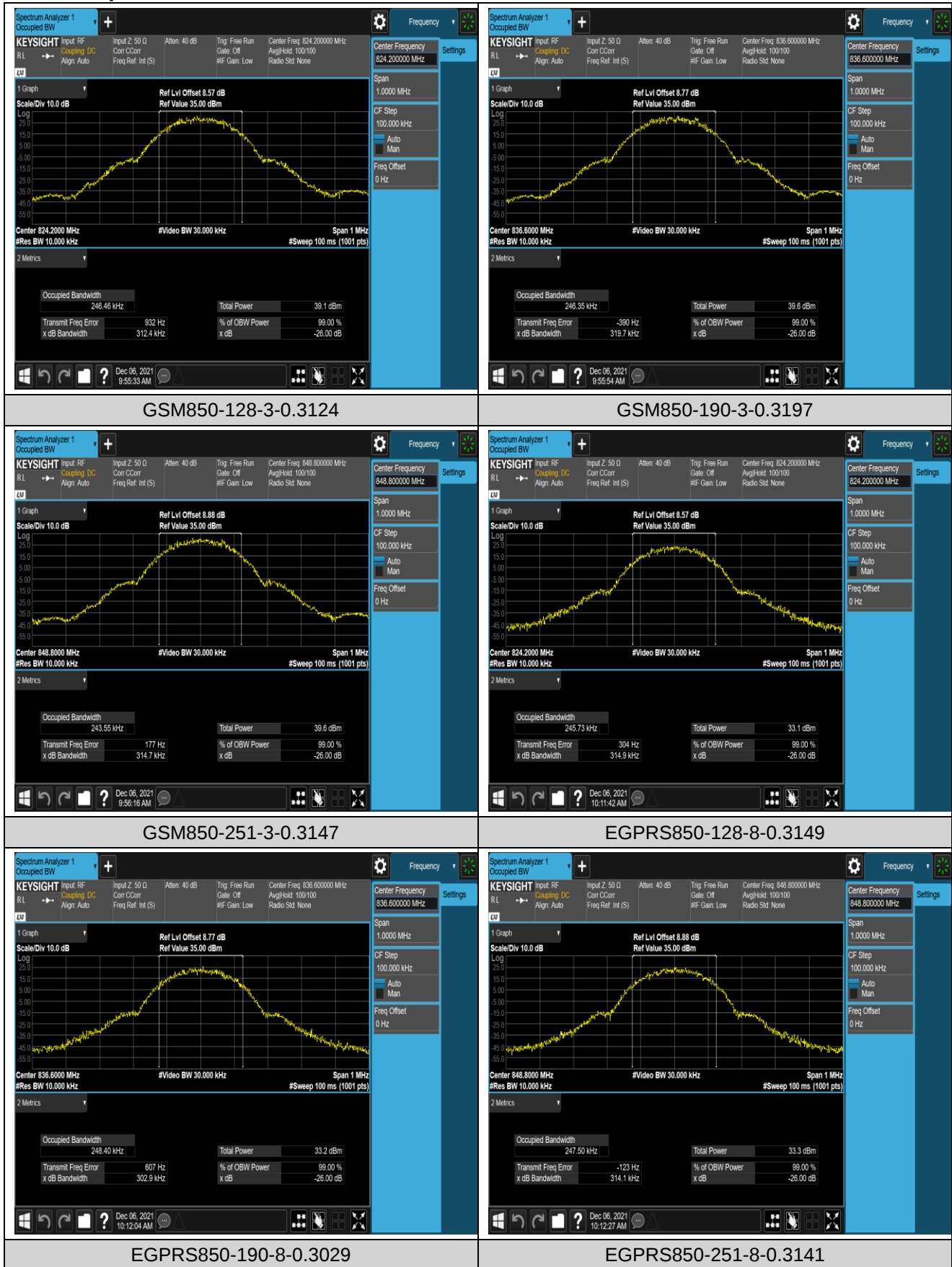


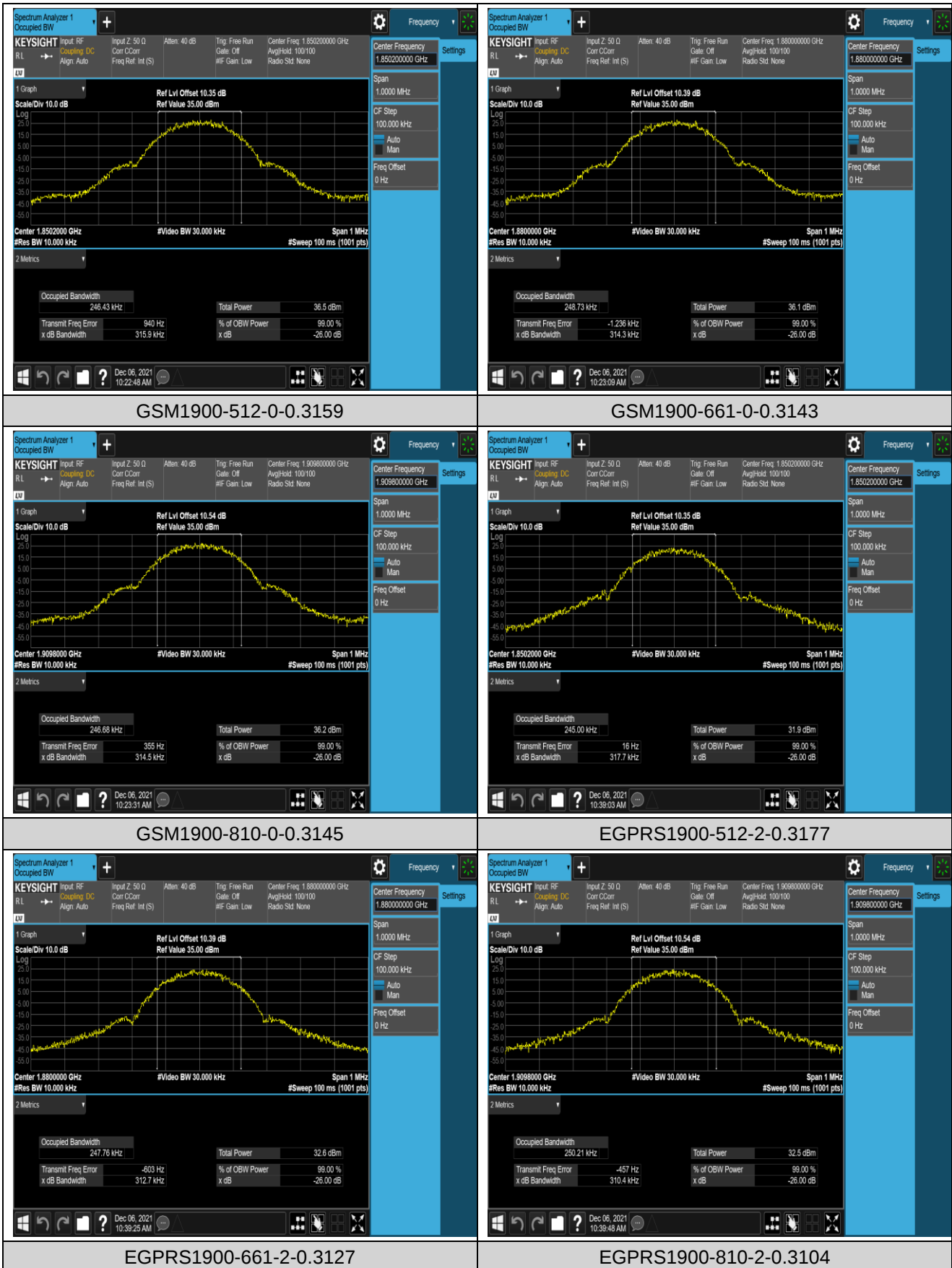
Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	3	0.24646	0.3124	---	PASS
GSM850	190	3	0.24635	0.3197	---	PASS
GSM850	251	3	0.24355	0.3147	---	PASS
EGPRS850	128	8	0.24573	0.3149	---	PASS
EGPRS850	190	8	0.24840	0.3029	---	PASS
EGPRS850	251	8	0.24750	0.3141	---	PASS
GSM1900	512	0	0.24643	0.3159	---	PASS
GSM1900	661	0	0.24873	0.3143	---	PASS
GSM1900	810	0	0.24668	0.3145	---	PASS
EGPRS1900	512	2	0.24500	0.3177	---	PASS
EGPRS1900	661	2	0.24776	0.3127	---	PASS
EGPRS1900	810	2	0.25021	0.3104	---	PASS

Test Graphs



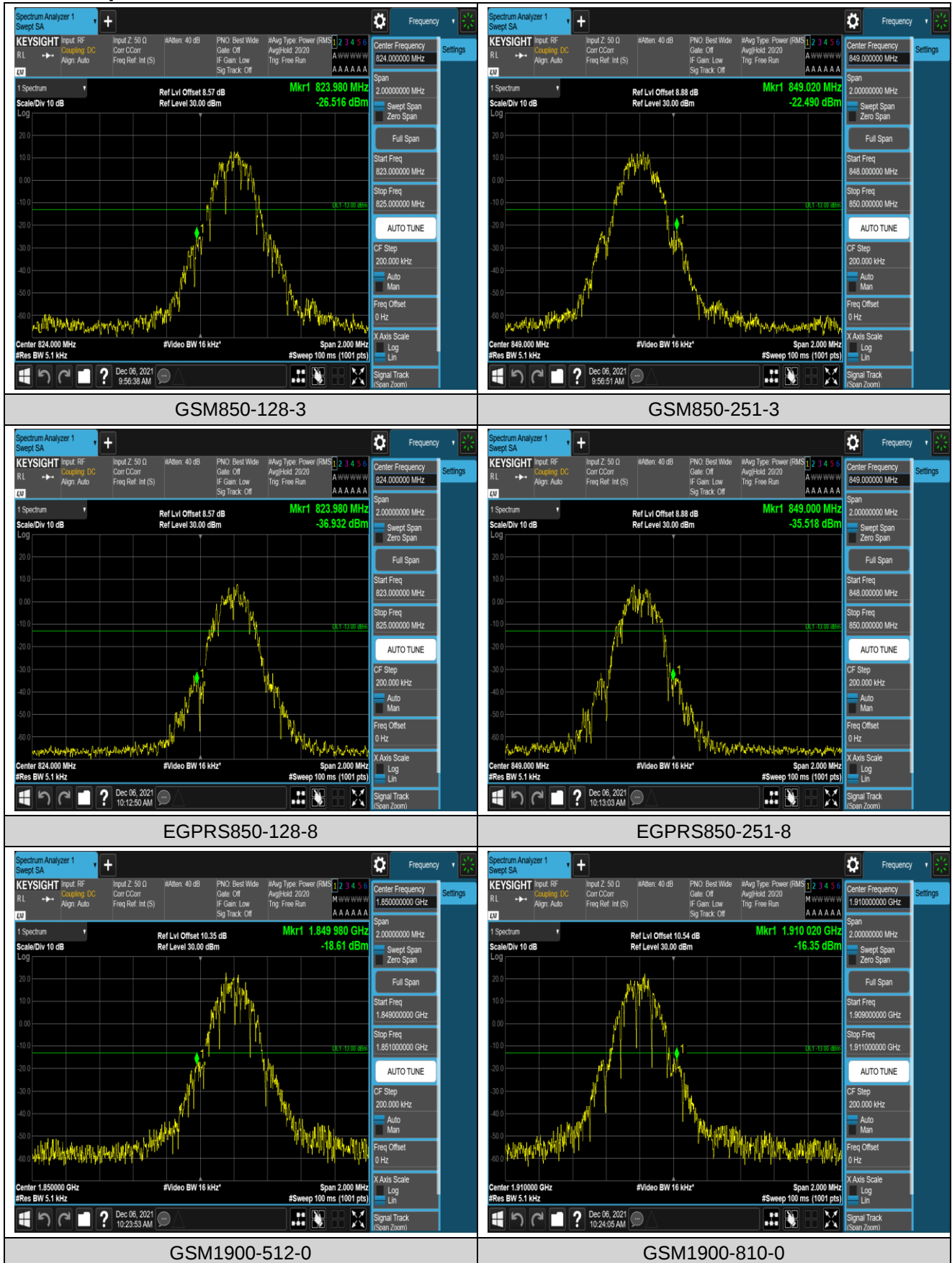


Appendix D: Band Edge

Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	3	823.98	-23.89	-13	PASS
GSM850	251	3	849.02	-22.49	-13	PASS
EGPRS850	128	8	823.98	-31.36	-13	PASS
EGPRS850	251	8	849.00	-30.62	-13	PASS
GSM1900	512	0	1849.98	-14.92	-13	PASS
GSM1900	810	0	1910.02	-13.63	-13	PASS
EGPRS1900	512	2	1849.98	-20.96	-13	PASS
EGPRS1900	810	2	1910.04	-24.04	-13	PASS

Test Graphs

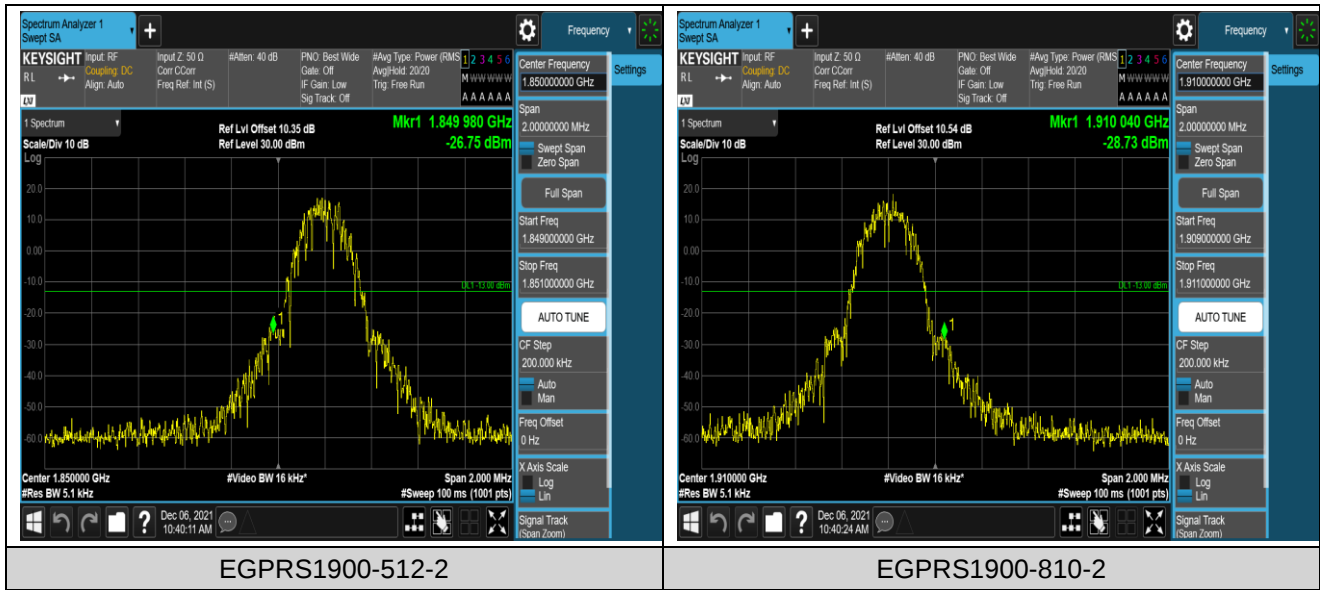


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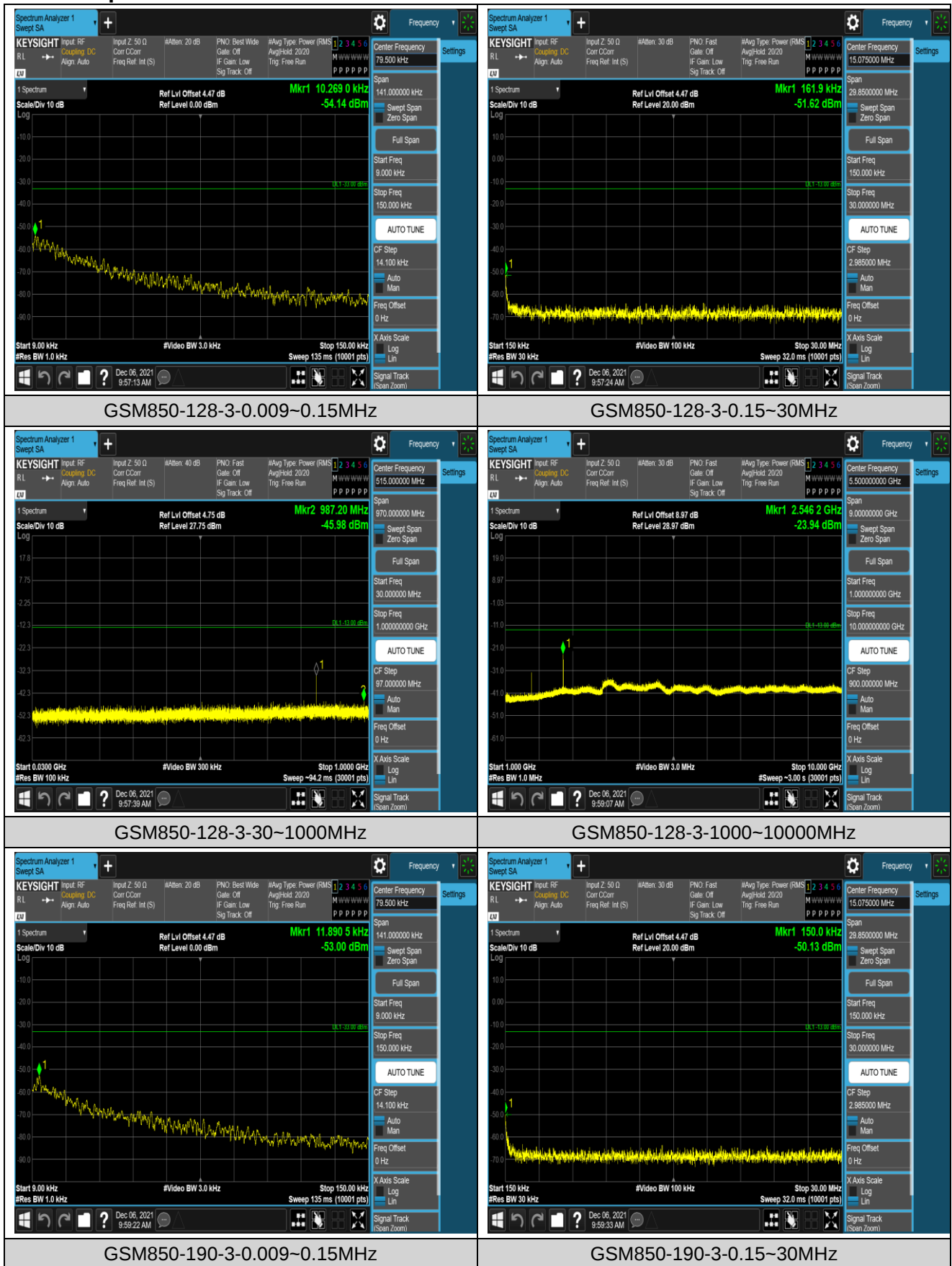
Appendix E: Conducted Spurious Emission

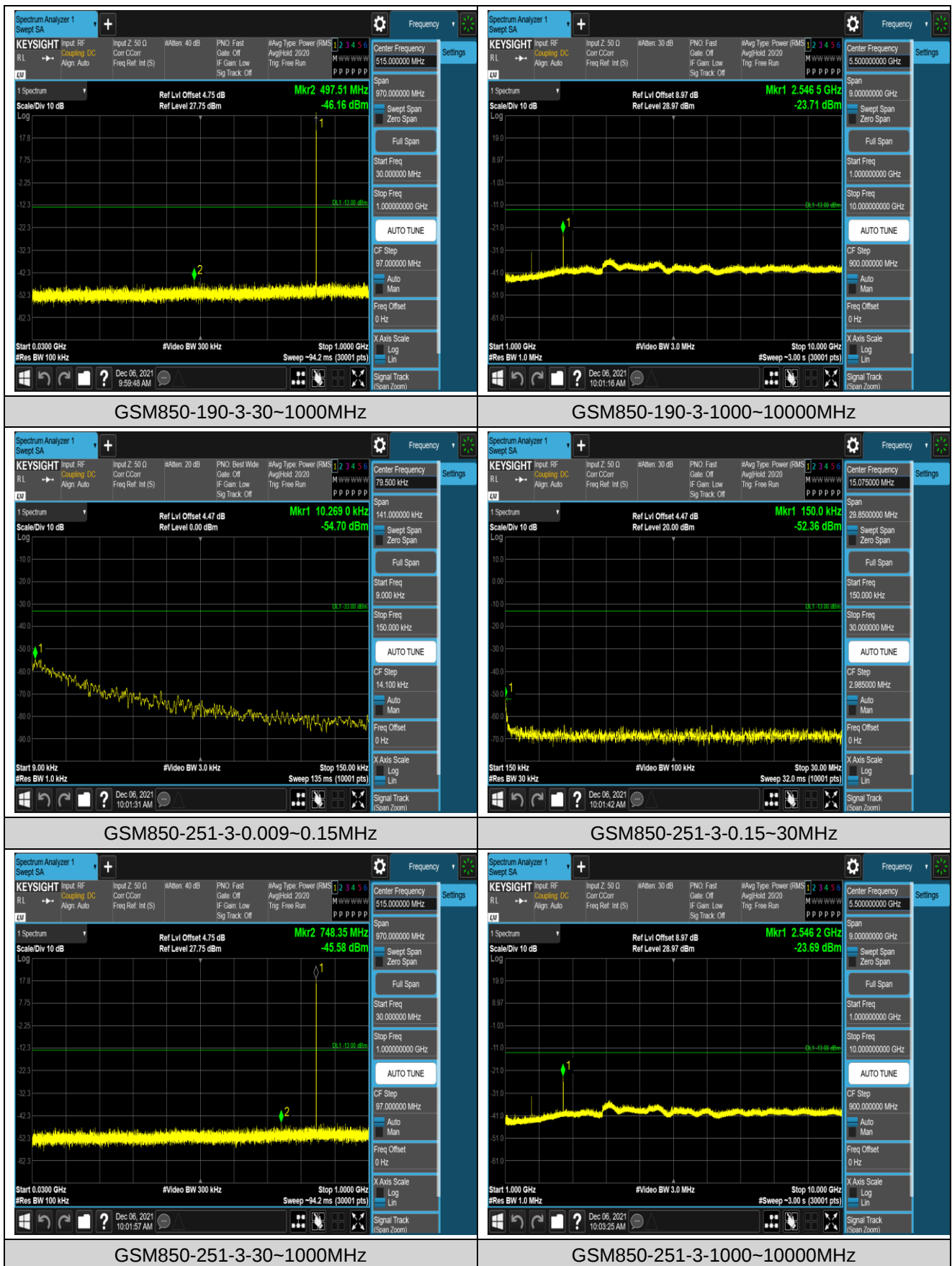
Test Result

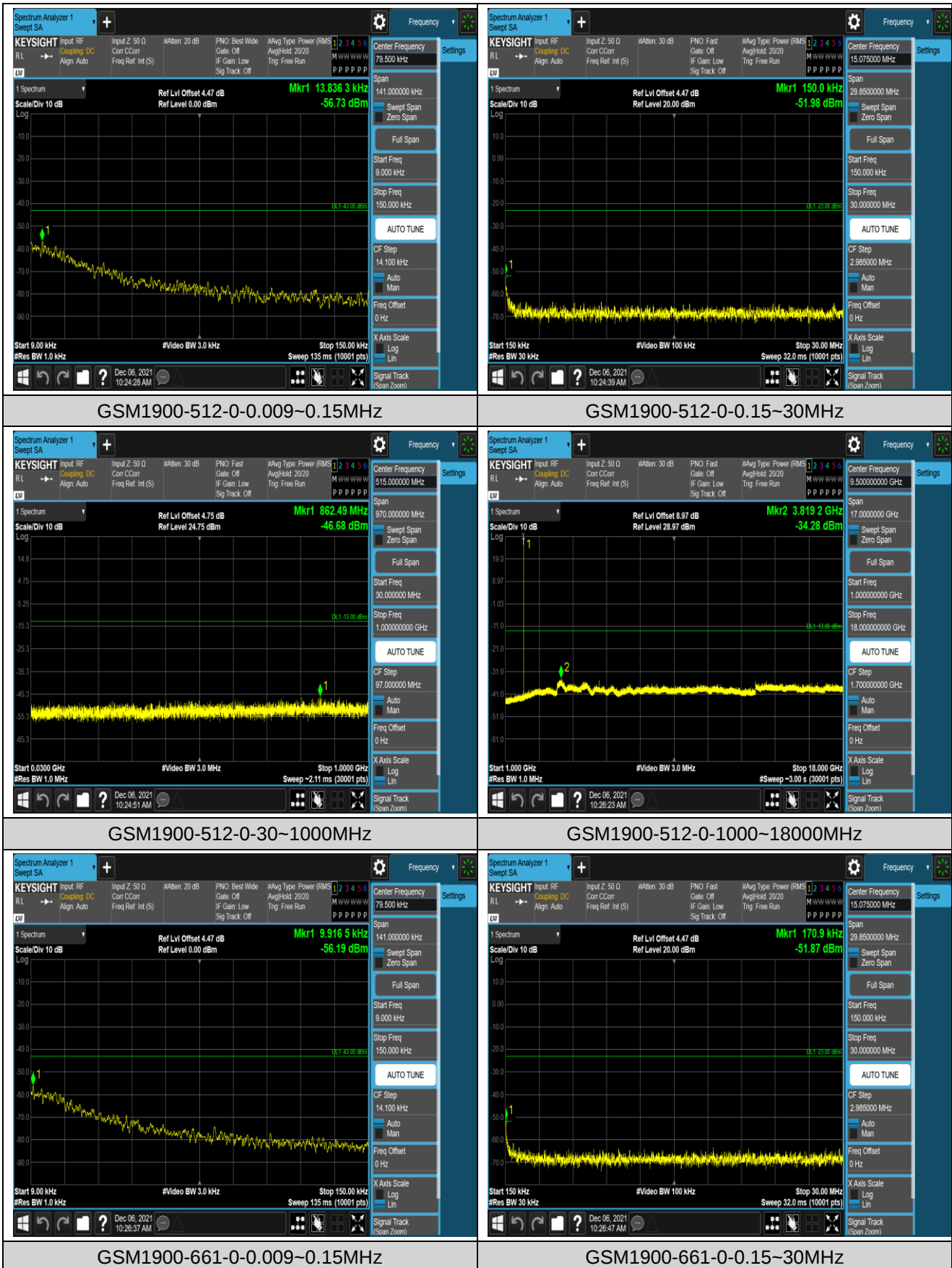
Band	Channel	PCL	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	3	0.009~0.15MHz	0.01	-54.14	-33	PASS
GSM850	128	3	0.15~30MHz	0.16	-51.62	-13	PASS
GSM850	128	3	30~1000MHz	987.2	-45.98	-13	PASS
GSM850	128	3	1000~10000MHz	2546.2	-23.94	-13	PASS
GSM850	190	3	0.009~0.15MHz	0.01	-53	-33	PASS
GSM850	190	3	0.15~30MHz	0.15	-50.13	-13	PASS
GSM850	190	3	30~1000MHz	497.51	-46.16	-13	PASS
GSM850	190	3	1000~10000MHz	2546.5	-23.71	-13	PASS
GSM850	251	3	0.009~0.15MHz	0.01	-54.7	-33	PASS
GSM850	251	3	0.15~30MHz	0.15	-52.36	-13	PASS
GSM850	251	3	30~1000MHz	748.35	-45.58	-13	PASS
GSM850	251	3	1000~10000MHz	2546.2	-23.69	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-56.73	-43	PASS
GSM1900	512	0	0.15~30MHz	0.15	-51.98	-23	PASS
GSM1900	512	0	30~1000MHz	862.49	-46.68	-13	PASS
GSM1900	512	0	1000~18000MHz	3819.17	-34.28	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-56.19	-43	PASS
GSM1900	661	0	0.15~30MHz	0.17	-51.87	-23	PASS
GSM1900	661	0	30~1000MHz	874.45	-45.63	-13	PASS
GSM1900	661	0	1000~18000MHz	3699.6	-34.23	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.02	-56.38	-43	PASS
GSM1900	810	0	0.15~30MHz	0.17	-53.2	-23	PASS
GSM1900	810	0	30~1000MHz	874.97	-45.93	-13	PASS
GSM1900	810	0	1000~18000MHz	3828.8	-34.42	-13	PASS

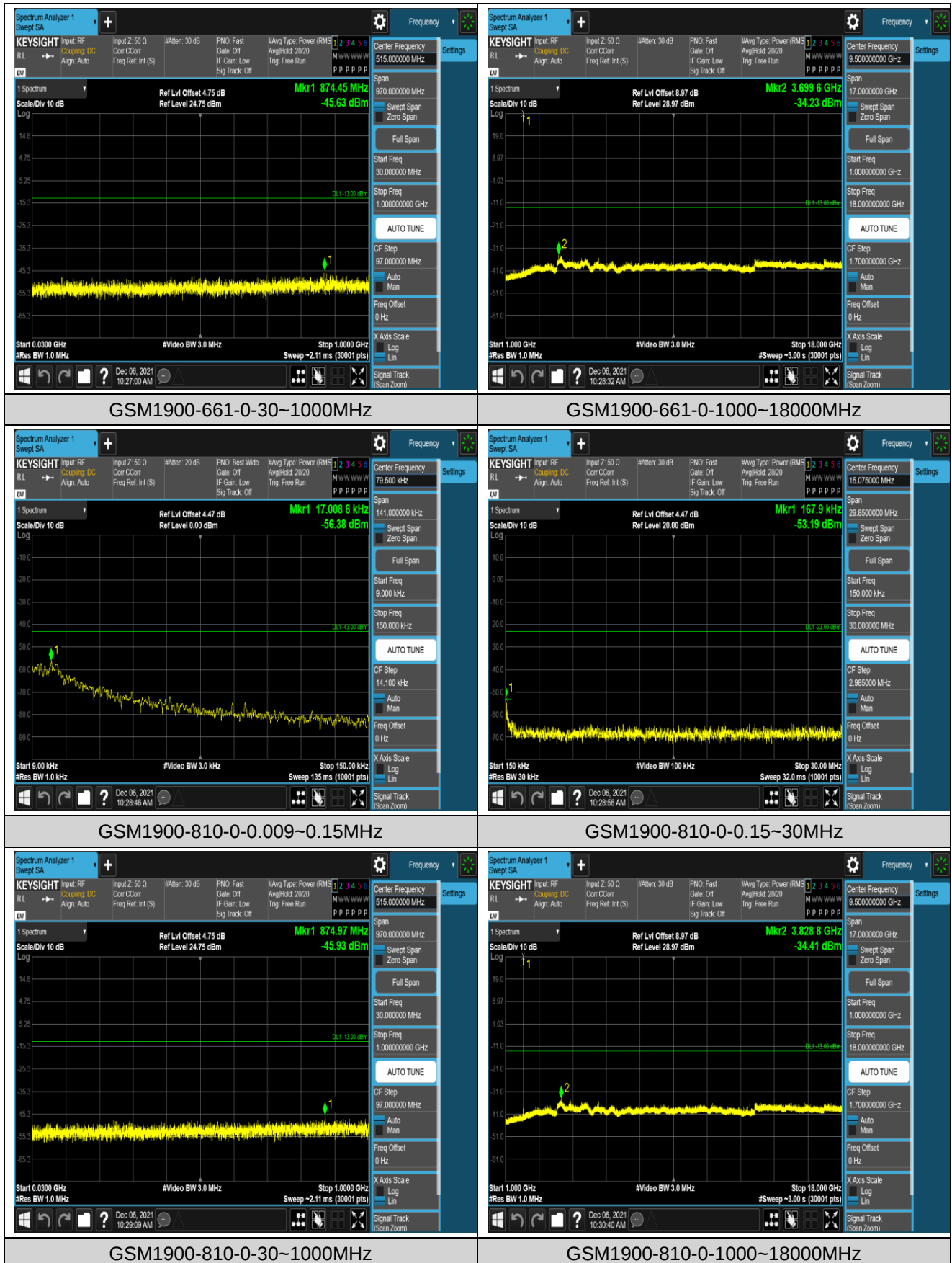
Remark: All channel and all modulation had been tested, but only the worst case data displayed in this report.

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	5.91	0.007064	±2.5	Pass
	-20	2.49	0.002976		
	-10	2.23	0.002666		
	0	1.1	0.001315		
	10	4	0.004781		
	20	2.84	0.003395		
	30	-0.1	-0.00012		
	40	1.55	0.001853		
	50	4.42	0.005283		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	1.1	0.001315	±2.5	Pass
	3.85	6.36	0.007602		
	4.40	4.23	0.005056		
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 (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.85	-30	-8.81	-0.010531	±2.5	Pass
	-20	-2.2	-0.00263		
	-10	-5.55	-0.006634		
	0	-2.36	-0.002821		
	10	-0.45	-0.000538		
	20	-3.03	-0.003622		
	30	-0.39	-0.000466		
	40	-3.62	-0.004327		
	50	-3.55	-0.004243		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	-7.78	-0.0093	±2.5	Pass
	3.85	-5.36	-0.006407		
	4.40	-3.97	-0.004745		
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 (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.85	-30	14.33	0.007622	Within authorized band for PCS 1900	Pass
	-20	11.43	0.00608		
	-10	11.01	0.005856		
	0	14.85	0.007899		
	10	9.75	0.005186		
	20	12.04	0.006404		
	30	13.69	0.007282		
	40	7.97	0.004239		
	50	9.27	0.004931		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	12.11	0.006441	Within authorized band for PCS 1900	Pass
	3.85	12.11	0.006441		
	4.40	17.24	0.00917		
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 (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.85	-30	5.49	0.00292	Within authorized band for PCS 1900	Pass
	-20	10.23	0.005441		
	-10	18.98	0.010096		
	0	16.43	0.008739		
	10	15.92	0.008468		
	20	15.05	0.008005		
	30	19.92	0.010596		
	40	16.27	0.008654		
	50	18.08	0.009617		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	6.68	0.003553	Within authorized band for PCS 1900	Pass
	3.85	3.2	0.001702		
	4.40	-0.65	-0.000346		
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

