

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	32.79	29.77	38.45	PASS
GSM850	190	5	33.08	30.06	38.45	PASS
GSM850	251	5	32.94	29.92	38.45	PASS
GSM1900	512	0	28.66	29.13	33.00	PASS
GSM1900	661	0	29.12	29.59	33.00	PASS
GSM1900	810	0	29.78	30.25	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	5	1	32.78	29.76	38.45	PASS
GPRS850	128	5	2	30.72	27.7	38.45	PASS
GPRS850	128	5	3	28.98	25.96	38.45	PASS
GPRS850	128	5	4	27.02	24	38.45	PASS
GPRS850	190	5	1	33.06	30.04	38.45	PASS
GPRS850	190	5	2	31.01	27.99	38.45	PASS
GPRS850	190	5	3	29.27	26.25	38.45	PASS
GPRS850	190	5	4	27.30	24.28	38.45	PASS
GPRS850	251	5	1	32.93	29.91	38.45	PASS
GPRS850	251	5	2	30.87	27.85	38.45	PASS
GPRS850	251	5	3	29.11	26.09	38.45	PASS
GPRS850	251	5	4	27.13	24.11	38.45	PASS
GPRS1900	512	0	1	28.67	29.14	33.00	PASS
GPRS1900	512	0	2	26.73	27.2	33.00	PASS
GPRS1900	512	0	3	25.20	25.67	33.00	PASS
GPRS1900	512	0	4	23.29	23.76	33.00	PASS
GPRS1900	661	0	1	29.14	29.61	33.00	PASS
GPRS1900	661	0	2	26.90	27.37	33.00	PASS
GPRS1900	661	0	3	25.41	25.88	33.00	PASS
GPRS1900	661	0	4	23.47	23.94	33.00	PASS
GPRS1900	810	0	1	29.78	30.25	33.00	PASS
GPRS1900	810	0	2	27.28	27.75	33.00	PASS
GPRS1900	810	0	3	25.81	26.28	33.00	PASS
GPRS1900	810	0	4	23.87	24.34	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
EGPRS850	128	8	1	24.83	21.81	38.45	PASS
EGPRS850	128	8	2	23.76	20.74	38.45	PASS
EGPRS850	128	8	3	21.60	18.58	38.45	PASS
EGPRS850	128	8	4	19.84	16.82	38.45	PASS
EGPRS850	190	8	1	25.39	22.37	38.45	PASS
EGPRS850	190	8	2	24.19	21.17	38.45	PASS
EGPRS850	190	8	3	22.09	19.07	38.45	PASS
EGPRS850	190	8	4	20.16	17.14	38.45	PASS
EGPRS850	251	8	1	25.13	22.11	38.45	PASS
EGPRS850	251	8	2	23.93	20.91	38.45	PASS
EGPRS850	251	8	3	21.80	18.78	38.45	PASS
EGPRS850	251	8	4	19.93	16.91	38.45	PASS
EGPRS1900	512	2	1	24.72	25.19	33.00	PASS
EGPRS1900	512	2	2	23.11	23.58	33.00	PASS
EGPRS1900	512	2	3	21.02	21.49	33.00	PASS
EGPRS1900	512	2	4	18.87	19.34	33.00	PASS
EGPRS1900	661	2	1	25.03	25.5	33.00	PASS
EGPRS1900	661	2	2	23.44	23.91	33.00	PASS
EGPRS1900	661	2	3	21.52	21.99	33.00	PASS
EGPRS1900	661	2	4	19.47	19.94	33.00	PASS
EGPRS1900	810	2	1	25.41	25.88	33.00	PASS
EGPRS1900	810	2	2	23.84	24.31	33.00	PASS
EGPRS1900	810	2	3	22.07	22.54	33.00	PASS
EGPRS1900	810	2	4	19.98	20.45	33.00	PASS

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

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

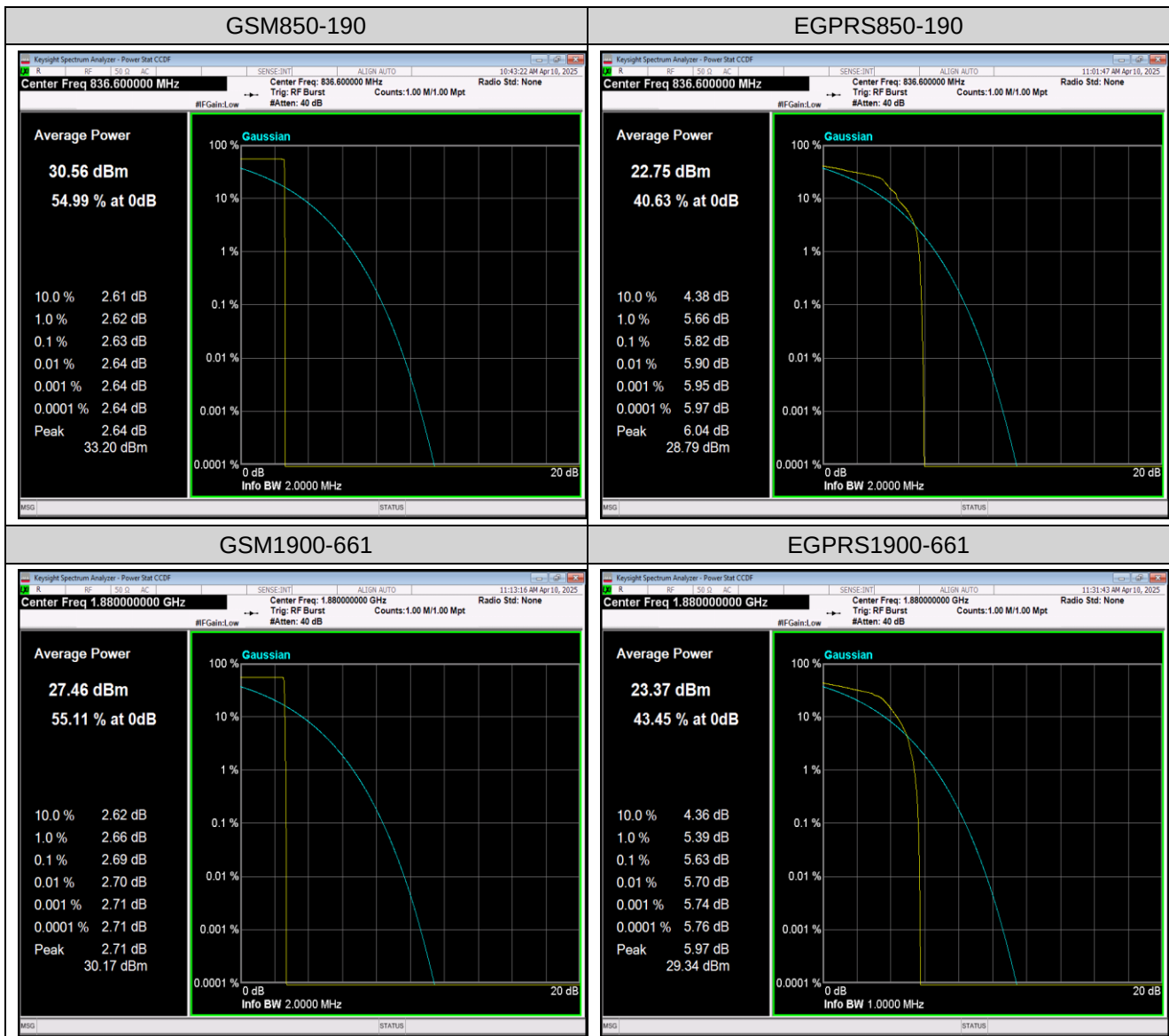
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	PCL	Result(dB)	Limit(dB)	Verdict
GSM850	190	5	2.63	13	PASS
EGPRS850	190	8	5.82	13	PASS
GSM1900	661	0	2.69	13	PASS
EGPRS1900	661	2	5.63	13	PASS

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

Test Graphs



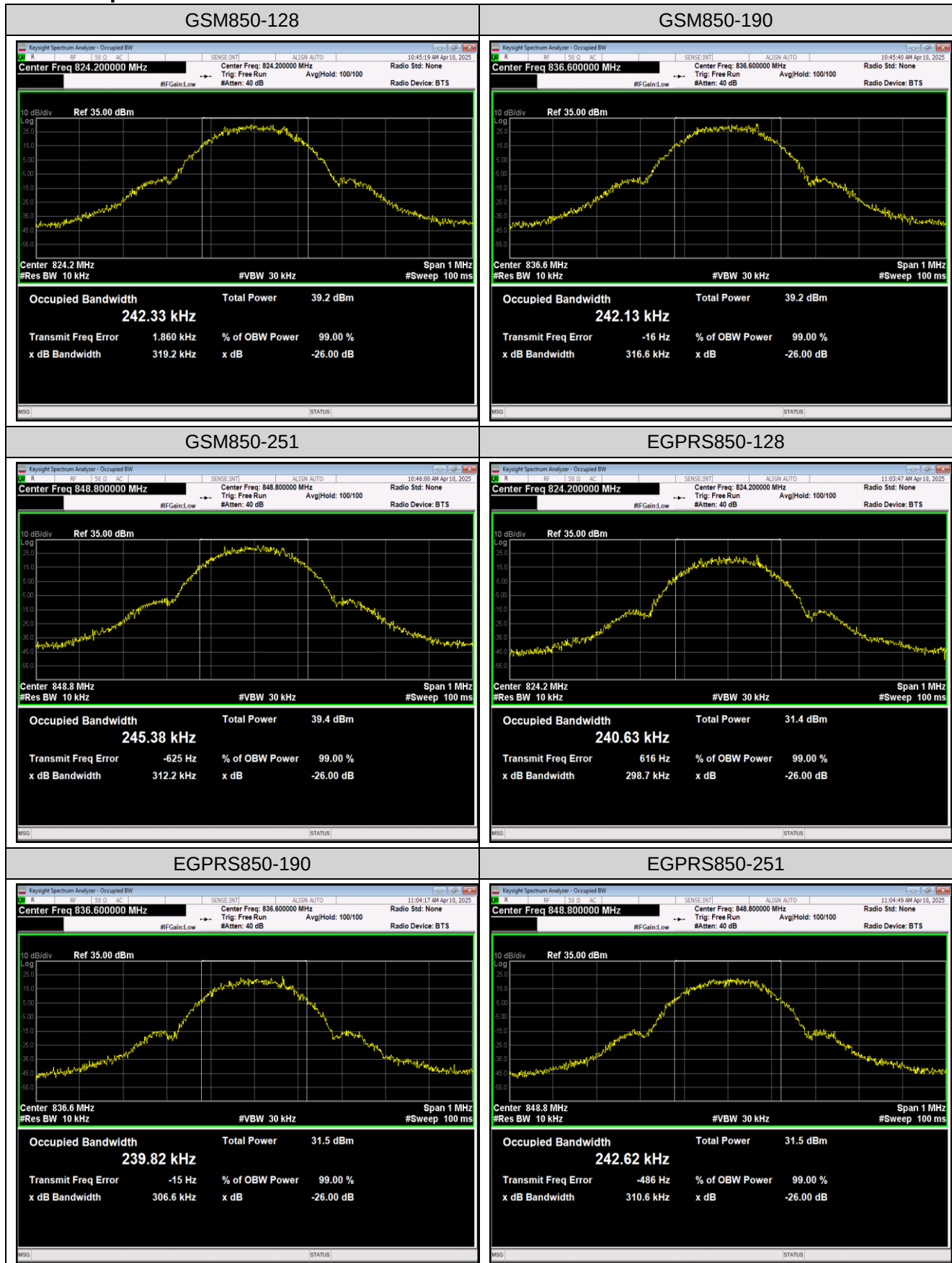
Appendix C: 26dB Bandwidth and Occupied Bandwidth

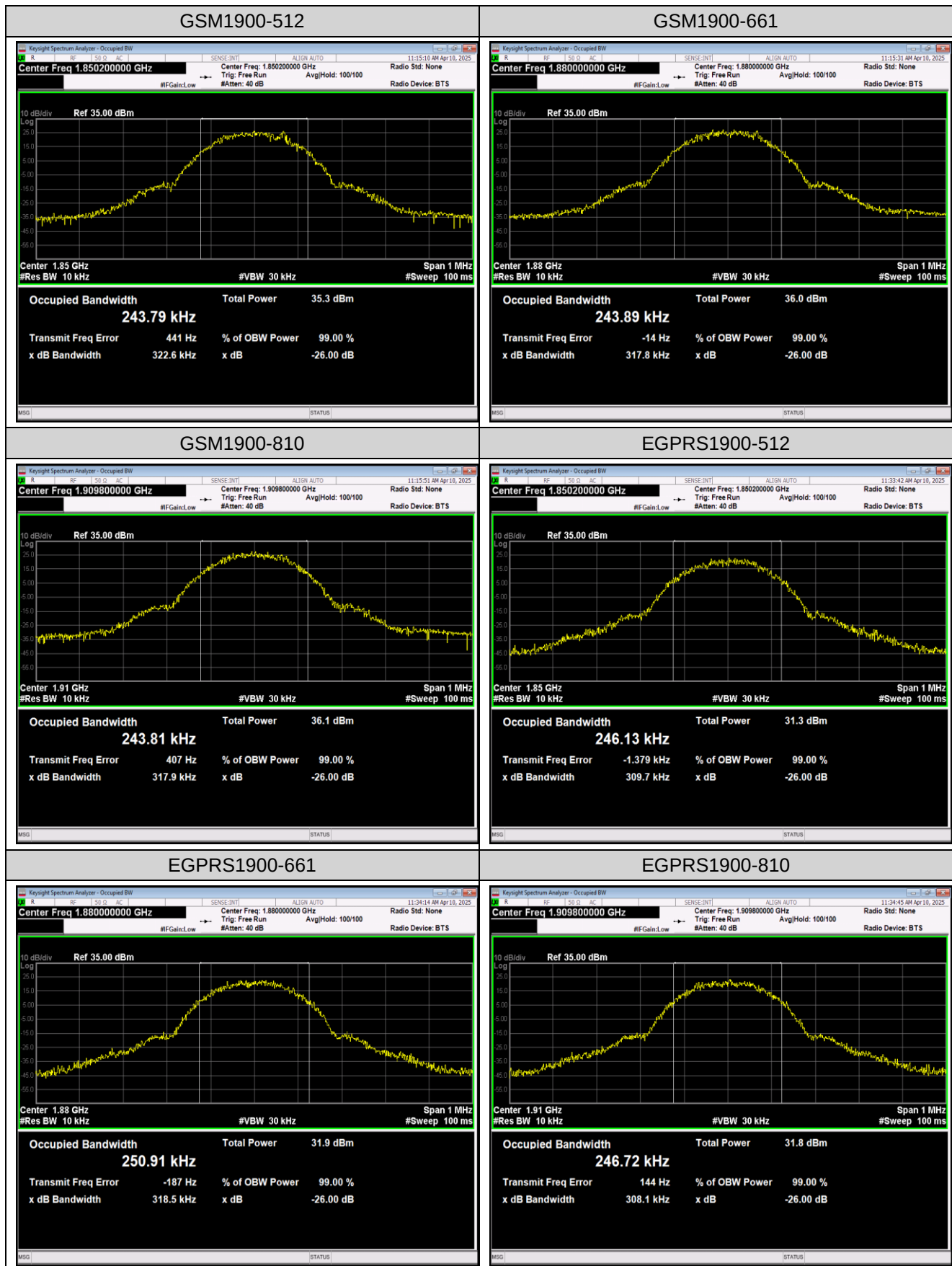
Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	5	0.24233	0.3192	---	PASS
GSM850	190	5	0.24213	0.3166	---	PASS
GSM850	251	5	0.24538	0.3122	---	PASS
EGPRS850	128	8	0.24063	0.2987	---	PASS
EGPRS850	190	8	0.23982	0.3066	---	PASS
EGPRS850	251	8	0.24262	0.3106	---	PASS
GSM1900	512	0	0.24379	0.3226	---	PASS
GSM1900	661	0	0.24389	0.3178	---	PASS
GSM1900	810	0	0.24381	0.3179	---	PASS
EGPRS1900	512	2	0.24613	0.3097	---	PASS
EGPRS1900	661	2	0.25091	0.3185	---	PASS
EGPRS1900	810	2	0.24672	0.3081	---	PASS

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

Test Graphs





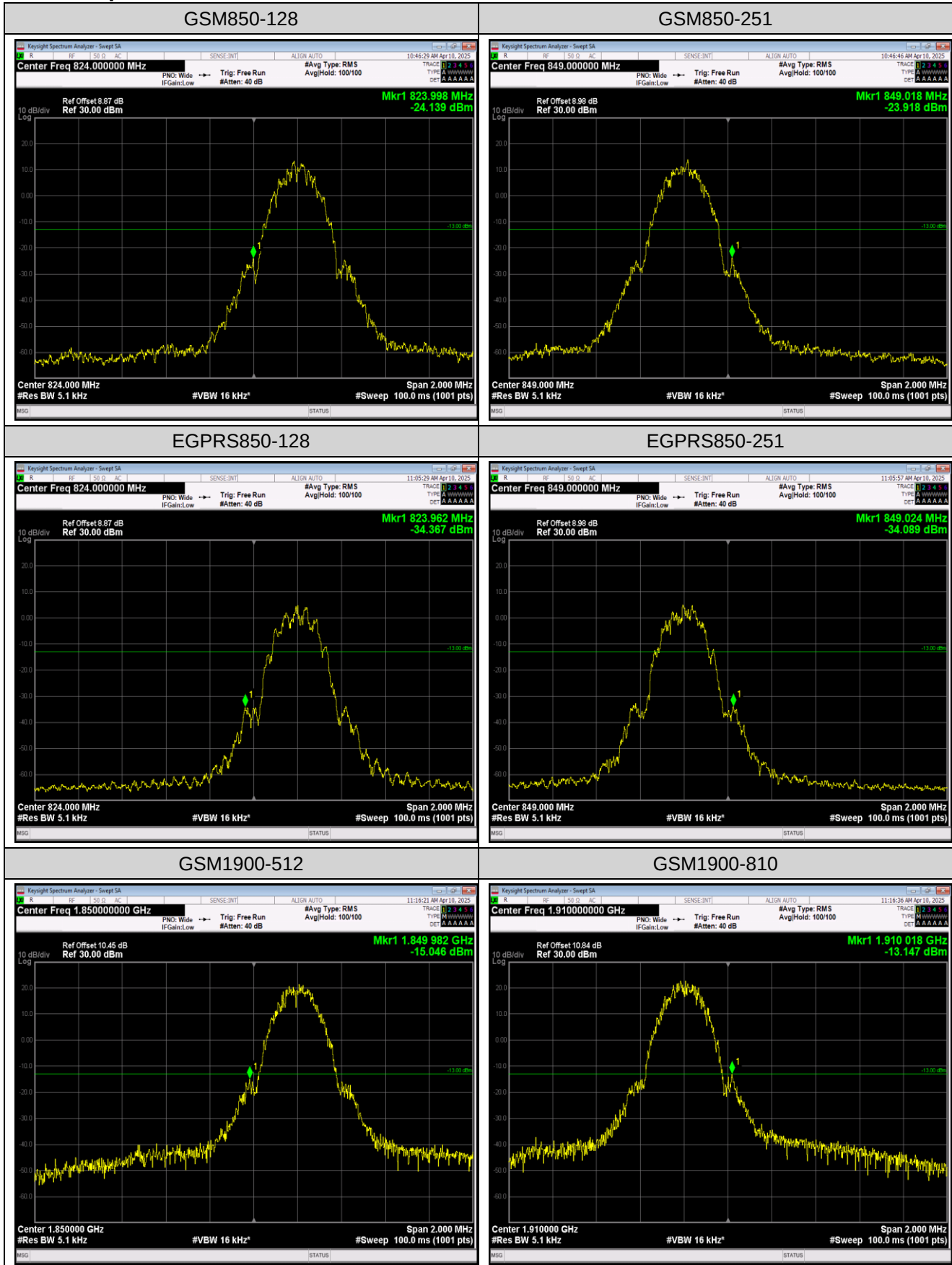
Appendix D: Band Edge

Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	5	824.00	-24.14	-13	PASS
GSM850	251	5	849.02	-23.92	-13	PASS
EGPRS850	128	8	823.96	-34.37	-13	PASS
EGPRS850	251	8	849.02	-34.09	-13	PASS
GSM1900	512	0	1849.98	-15.05	-13	PASS
GSM1900	810	0	1910.02	-13.15	-13	PASS
EGPRS1900	512	2	1849.99	-19.64	-13	PASS
EGPRS1900	810	2	1910.03	-21.67	-13	PASS

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

Test Graphs

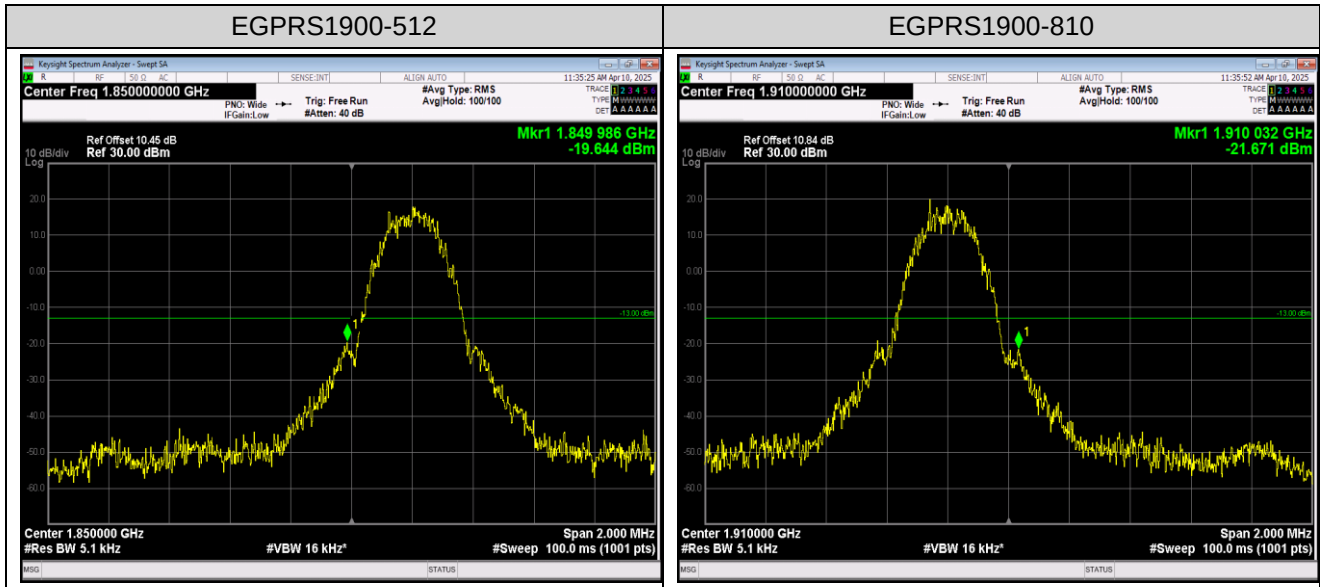


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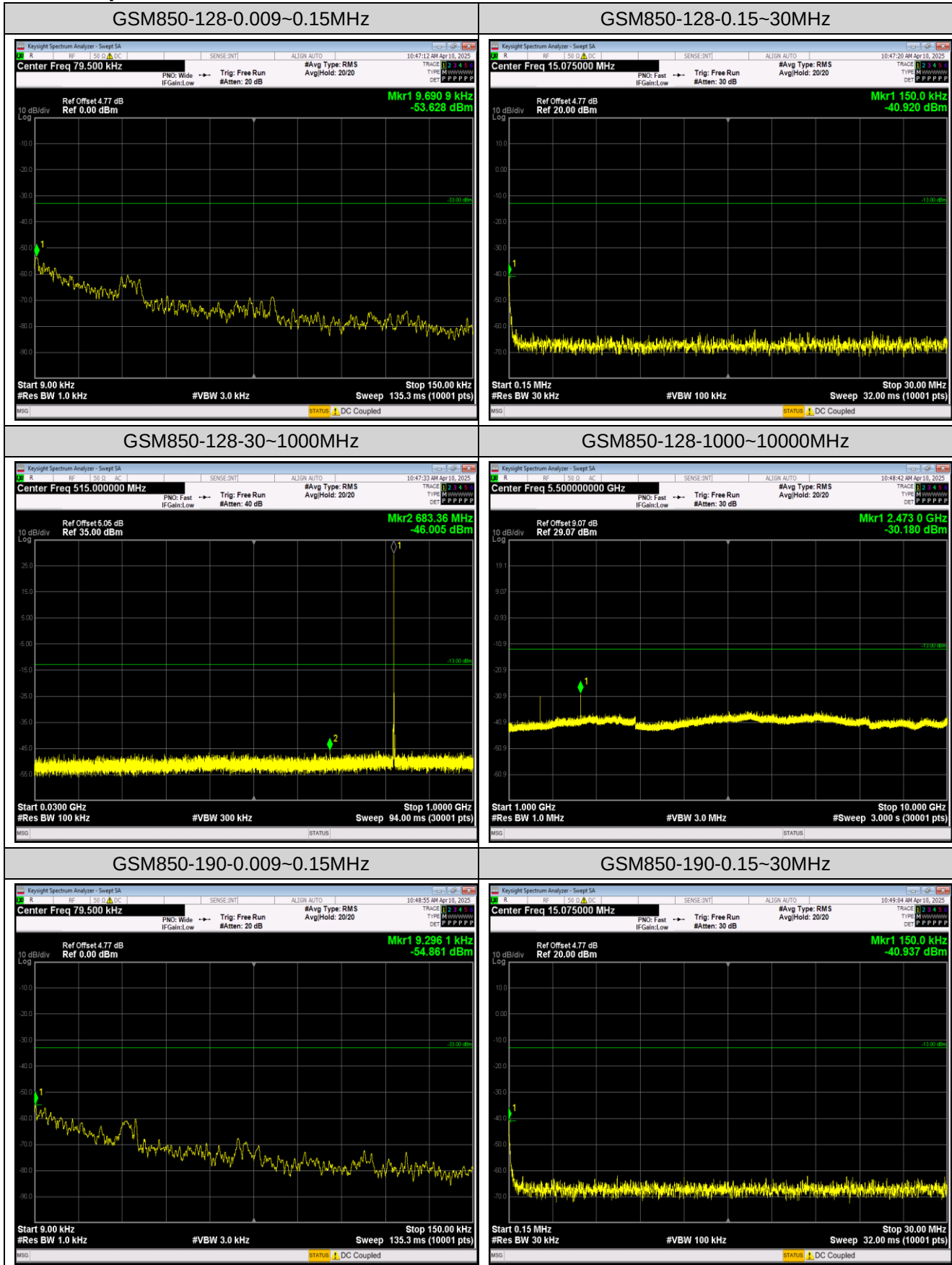
Appendix E: Conducted Spurious Emission

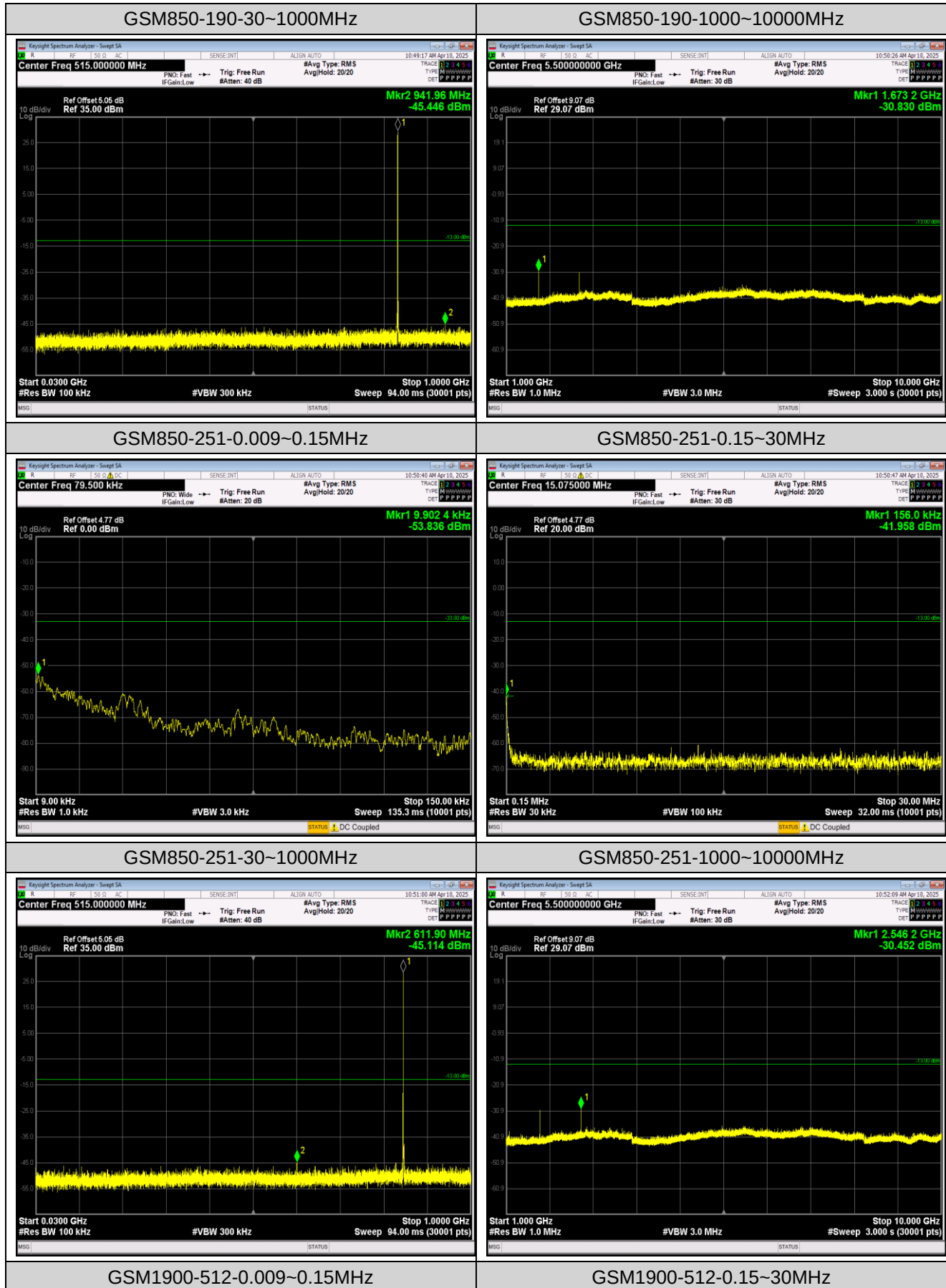
Test Result

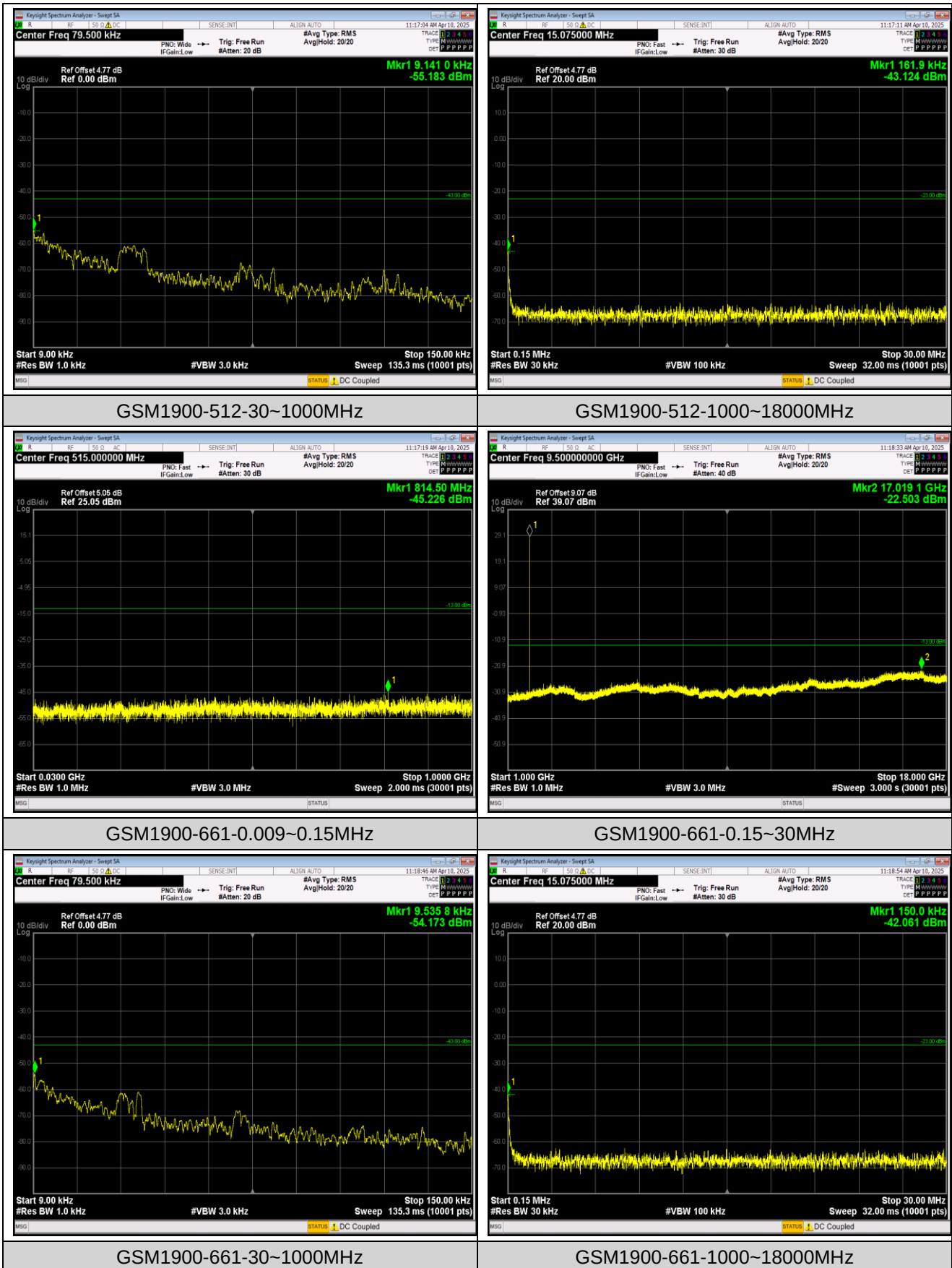
Band	Channel	PCL	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	5	0.009~0.15MHz	0.01	-53.63	-33	PASS
GSM850	128	5	0.15~30MHz	0.15	-40.92	-13	PASS
GSM850	128	5	30~1000MHz	683.36	-46.01	-13	PASS
GSM850	128	5	1000~10000MHz	2473	-30.18	-13	PASS
GSM850	190	5	0.009~0.15MHz	0.01	-54.86	-33	PASS
GSM850	190	5	0.15~30MHz	0.15	-40.94	-13	PASS
GSM850	190	5	30~1000MHz	941.96	-45.45	-13	PASS
GSM850	190	5	1000~10000MHz	1673.2	-30.83	-13	PASS
GSM850	251	5	0.009~0.15MHz	0.01	-53.84	-33	PASS
GSM850	251	5	0.15~30MHz	0.16	-41.96	-13	PASS
GSM850	251	5	30~1000MHz	611.9	-45.11	-13	PASS
GSM850	251	5	1000~10000MHz	2546.2	-30.45	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-55.18	-43	PASS
GSM1900	512	0	0.15~30MHz	0.16	-43.12	-23	PASS
GSM1900	512	0	30~1000MHz	814.5	-45.23	-13	PASS
GSM1900	512	0	1000~18000MHz	17019.1	-22.5	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-54.17	-43	PASS
GSM1900	661	0	0.15~30MHz	0.15	-42.06	-23	PASS
GSM1900	661	0	30~1000MHz	779.68	-45.87	-13	PASS
GSM1900	661	0	1000~18000MHz	16144.17	-22.34	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-55.92	-43	PASS
GSM1900	810	0	0.15~30MHz	0.17	-43.1	-23	PASS
GSM1900	810	0	30~1000MHz	833.87	-44.83	-13	PASS
GSM1900	810	0	1000~18000MHz	16996.43	-22.39	-13	PASS

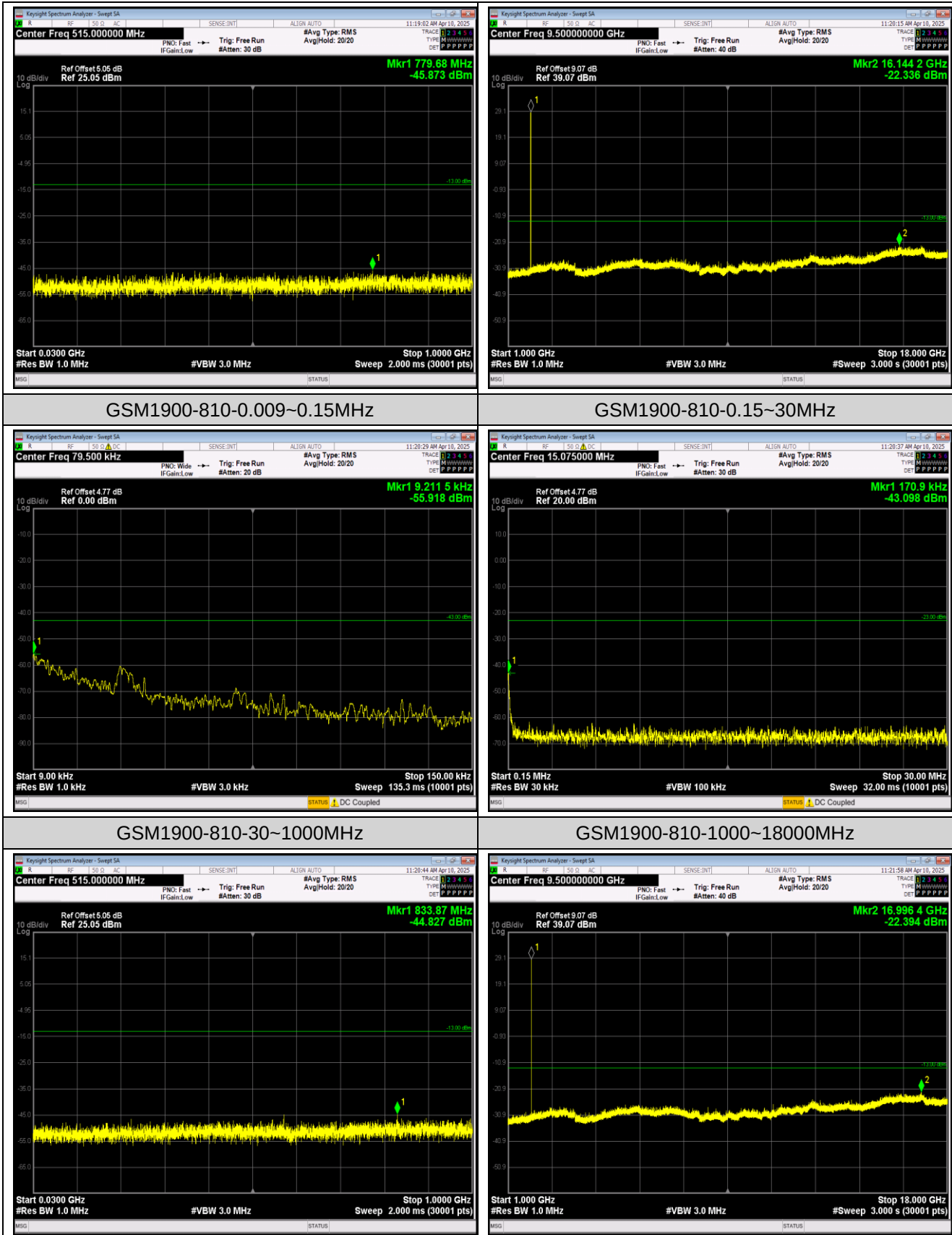
Remark: All channel and all modulation had been tested, but only the worst case data displayed in this report.

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		
3.89	-30	-12.11	-0.014475	±2.5	Pass
	-20	-17.60	-0.021038		
	-10	-13.08	-0.015635		
	0	-17.05	-0.020380		
	10	-12.66	-0.015133		
	20	-13.30	-0.015898		
	30	-14.08	-0.016830		
	40	-16.18	-0.019340		
	50	-12.33	-0.014738		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	-12.37	-0.014786	±2.5	Pass
	3.89	-14.92	-0.017834		
	4.48	-11.27	-0.013471		
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		
3.89	-30	15.11	0.018061	±2.5	Pass
	-20	9.04	0.010806		
	-10	9.91	0.011846		
	0	6.33	0.007566		
	10	10.23	0.012228		
	20	7.59	0.009072		
	30	5.36	0.006407		
	40	10.46	0.012503		
	50	8.98	0.010734		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	13.46	0.016089	±2.5	Pass
	3.89	9.36	0.011188		
	4.48	11.85	0.014164		
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		
3.89	-30	0.42	0.000223	Within authorized band for PCS 1900	Pass
	-20	-5.36	-0.002851		
	-10	-8.10	-0.004309		
	0	-2.58	-0.001372		
	10	-7.55	-0.004016		
	20	-7.59	-0.004037		
	30	-1.10	-0.000585		
	40	-3.10	-0.001649		
	50	-3.16	-0.001681		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	1.42	0.000755	Within authorized band for PCS 1900	Pass
	3.89	-1.84	-0.000979		
	4.48	-13.72	-0.007298		
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		
3.89	-30	13.75	0.007314	Within authorized band for PCS 1900	Pass
	-20	-5.71	-0.003037		
	-10	10.88	0.005787		
	0	0.03	0.000016		
	10	3.68	0.001957		
	20	-0.10	-0.000053		
	30	-1.61	-0.000856		
	40	-0.10	-0.000053		
	50	4.23	0.002250		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	11.11	0.005910	Within authorized band for PCS 1900	Pass
	3.89	6.97	0.003707		
	4.48	11.40	0.006064		
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

