

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	34.13	29.33	38.45	PASS
GSM850	190	5	34.17	29.37	38.45	PASS
GSM850	251	5	34.08	29.28	38.45	PASS
GSM1900	512	0	30.79	31.07	33.00	PASS
GSM1900	661	0	30.85	31.13	33.00	PASS
GSM1900	810	0	30.50	30.78	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	5	1	34.16	29.36	38.45	PASS
GPRS850	128	5	2	31.11	26.31	38.45	PASS
GPRS850	128	5	3	29.14	24.34	38.45	PASS
GPRS850	128	5	4	26.95	22.15	38.45	PASS
GPRS850	190	5	1	34.23	29.43	38.45	PASS
GPRS850	190	5	2	30.96	26.16	38.45	PASS
GPRS850	190	5	3	28.92	24.12	38.45	PASS
GPRS850	190	5	4	26.72	21.92	38.45	PASS
GPRS850	251	5	1	34.16	29.36	38.45	PASS
GPRS850	251	5	2	30.89	26.09	38.45	PASS
GPRS850	251	5	3	28.85	24.05	38.45	PASS
GPRS850	251	5	4	26.65	21.85	38.45	PASS
GPRS1900	512	0	1	30.79	31.07	33.00	PASS
GPRS1900	512	0	2	27.27	27.55	33.00	PASS
GPRS1900	512	0	3	25.56	25.84	33.00	PASS
GPRS1900	512	0	4	23.37	23.65	33.00	PASS
GPRS1900	661	0	1	30.89	31.17	33.00	PASS
GPRS1900	661	0	2	26.94	27.22	33.00	PASS
GPRS1900	661	0	3	25.25	25.53	33.00	PASS
GPRS1900	661	0	4	23.06	23.34	33.00	PASS
GPRS1900	810	0	1	30.56	30.84	33.00	PASS
GPRS1900	810	0	2	26.26	26.54	33.00	PASS
GPRS1900	810	0	3	24.53	24.81	33.00	PASS
GPRS1900	810	0	4	22.27	22.55	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
EGPRS850	128	8	1	26.80	22	38.45	PASS
EGPRS850	128	8	2	25.56	20.76	38.45	PASS
EGPRS850	128	8	3	23.42	18.62	38.45	PASS
EGPRS850	128	8	4	20.88	16.08	38.45	PASS
EGPRS850	190	8	1	26.73	21.93	38.45	PASS
EGPRS850	190	8	2	25.63	20.83	38.45	PASS
EGPRS850	190	8	3	23.36	18.56	38.45	PASS
EGPRS850	190	8	4	20.83	16.03	38.45	PASS
EGPRS850	251	8	1	26.66	21.86	38.45	PASS
EGPRS850	251	8	2	25.52	20.72	38.45	PASS
EGPRS850	251	8	3	23.30	18.5	38.45	PASS
EGPRS850	251	8	4	20.80	16	38.45	PASS
EGPRS1900	512	2	1	25.91	26.19	33.00	PASS
EGPRS1900	512	2	2	24.04	24.32	33.00	PASS
EGPRS1900	512	2	3	21.63	21.91	33.00	PASS
EGPRS1900	512	2	4	19.37	19.65	33.00	PASS
EGPRS1900	661	2	1	26.07	26.35	33.00	PASS
EGPRS1900	661	2	2	24.25	24.53	33.00	PASS
EGPRS1900	661	2	3	21.86	22.14	33.00	PASS
EGPRS1900	661	2	4	19.85	20.13	33.00	PASS
EGPRS1900	810	2	1	25.41	25.69	33.00	PASS
EGPRS1900	810	2	2	23.59	23.87	33.00	PASS
EGPRS1900	810	2	3	21.22	21.5	33.00	PASS
EGPRS1900	810	2	4	19.20	19.48	33.00	PASS

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

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

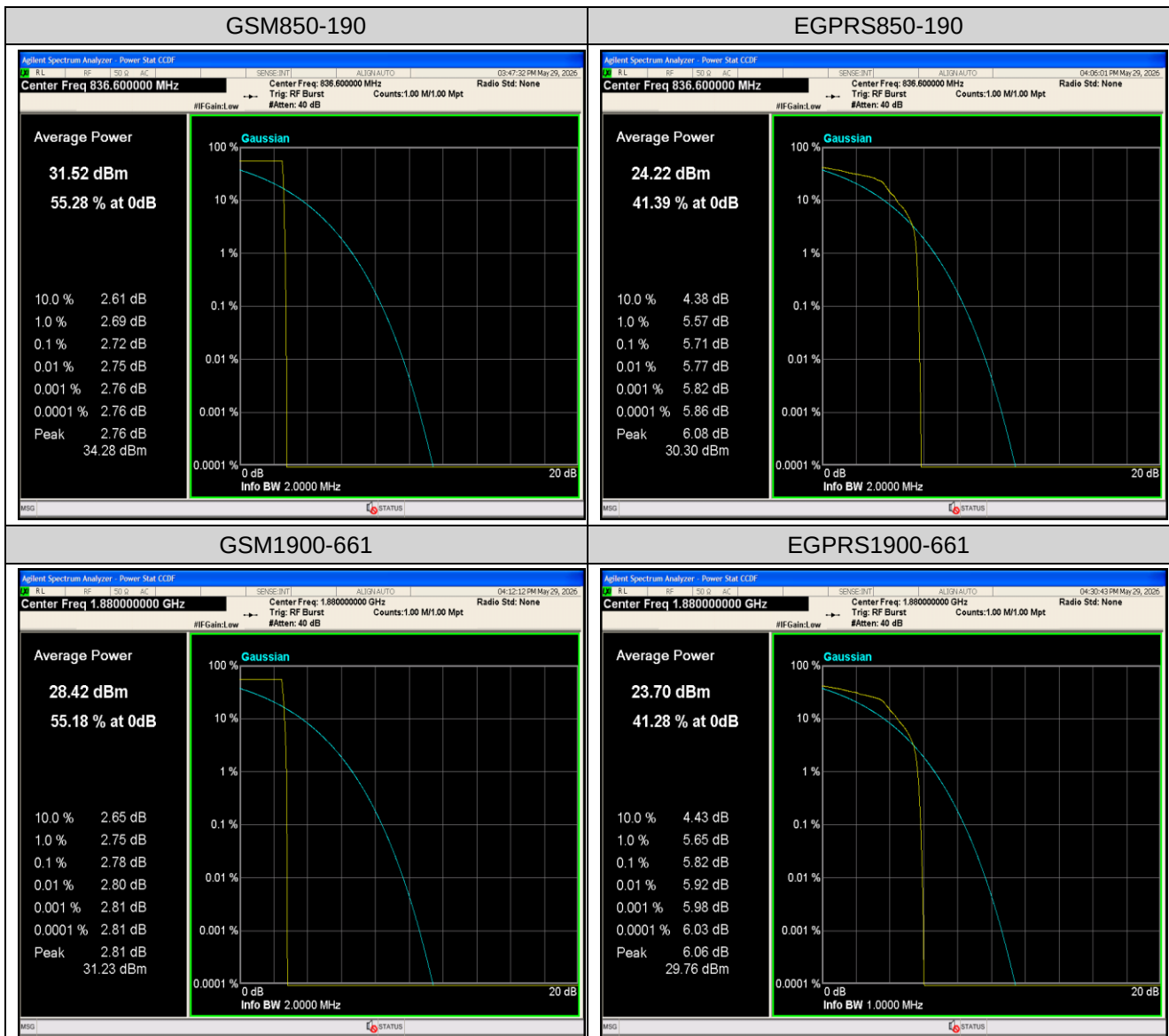
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	PCL	Result(dB)	Limit(dB)	Verdict
GSM850	190	5	2.72	13	PASS
EGPRS850	190	8	5.71	13	PASS
GSM1900	661	0	2.78	13	PASS
EGPRS1900	661	2	5.82	13	PASS

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

Test Graphs

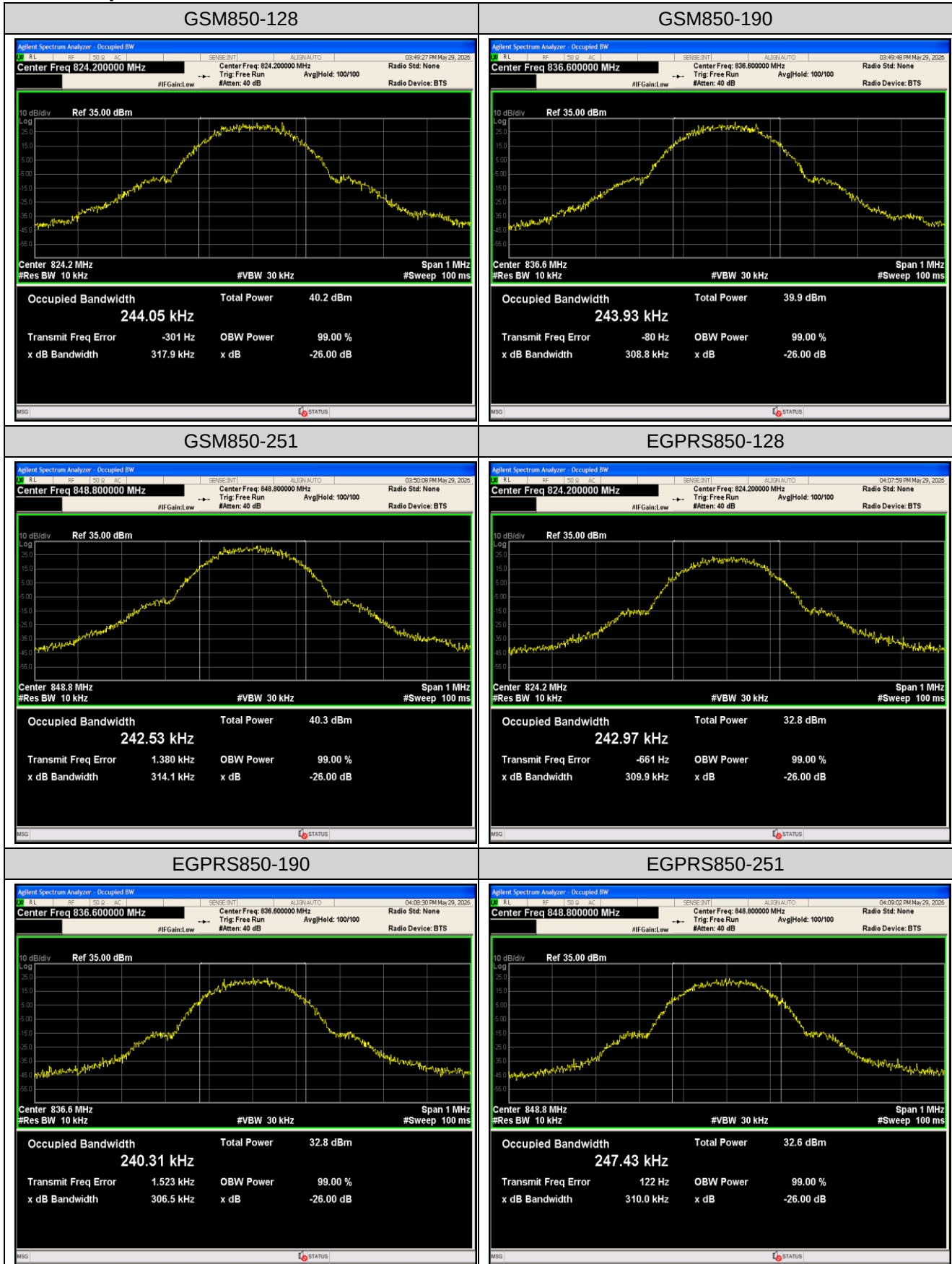


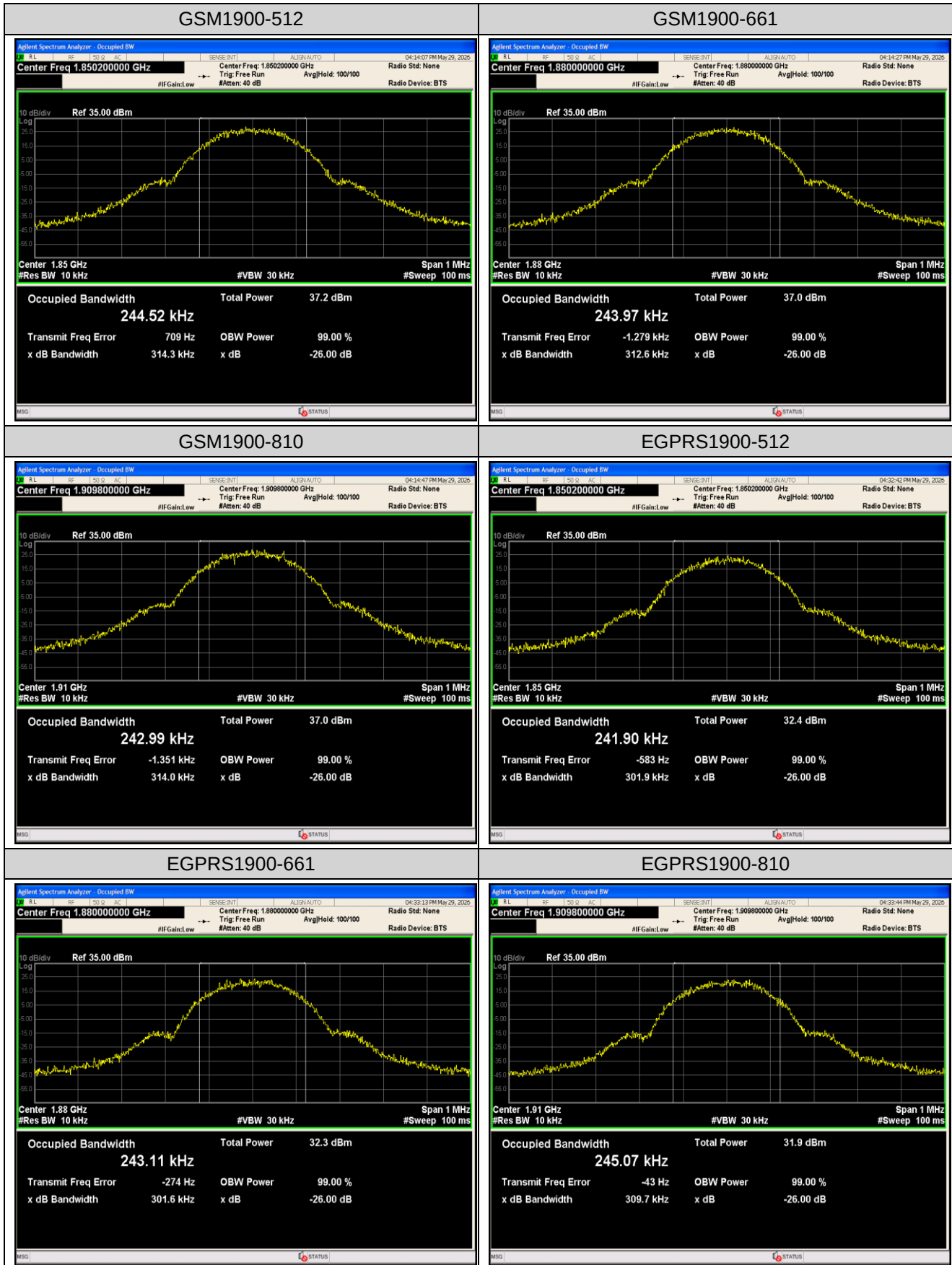
Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	5	0.24405	0.3179	---	PASS
GSM850	190	5	0.24393	0.3088	---	PASS
GSM850	251	5	0.24253	0.3141	---	PASS
EGPRS850	128	8	0.24297	0.3099	---	PASS
EGPRS850	190	8	0.24031	0.3065	---	PASS
EGPRS850	251	8	0.24743	0.3100	---	PASS
GSM1900	512	0	0.24452	0.3143	---	PASS
GSM1900	661	0	0.24397	0.3126	---	PASS
GSM1900	810	0	0.24299	0.3140	---	PASS
EGPRS1900	512	2	0.24190	0.3019	---	PASS
EGPRS1900	661	2	0.24311	0.3016	---	PASS
EGPRS1900	810	2	0.24507	0.3097	---	PASS

Test Graphs



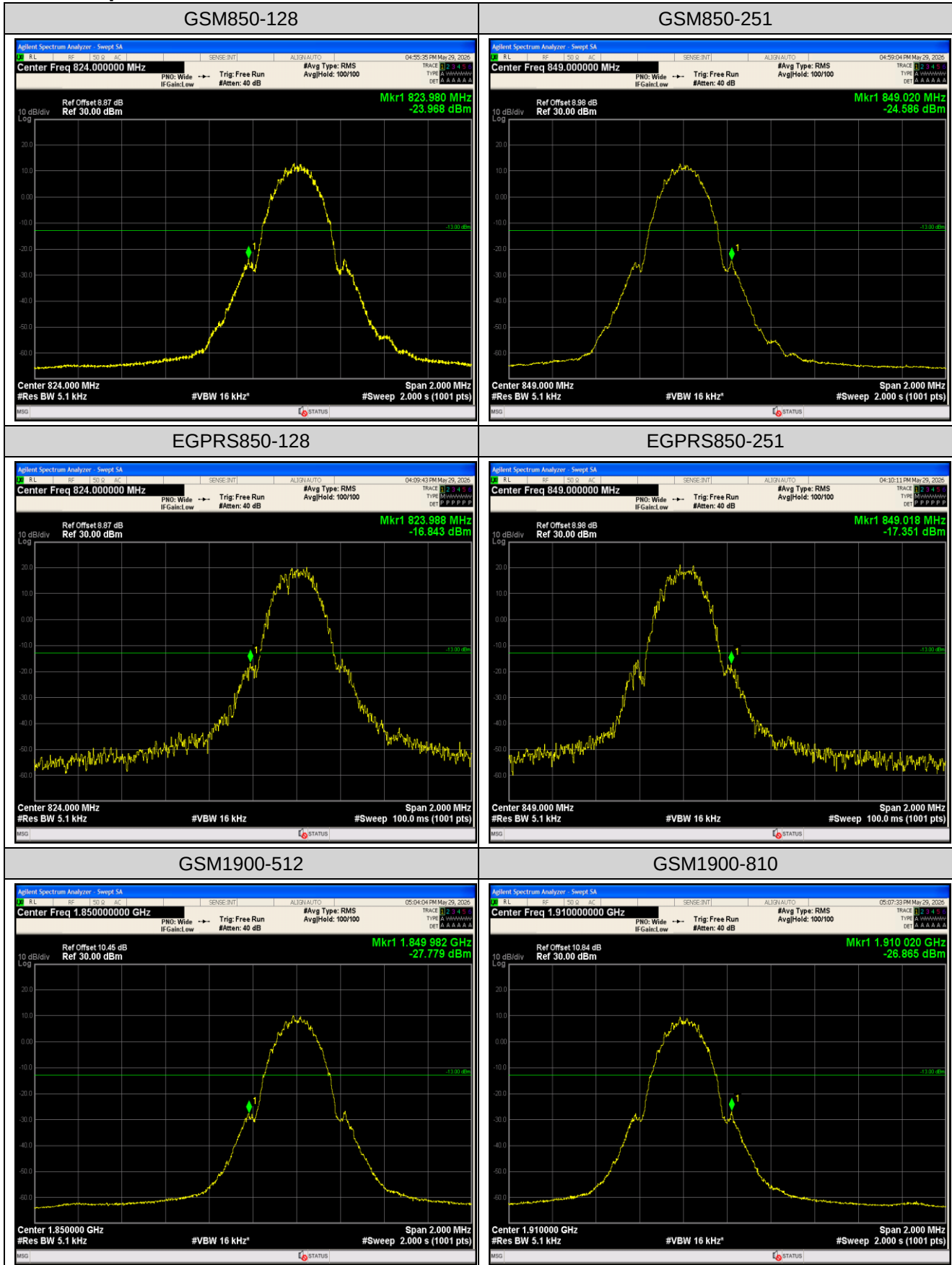


Appendix D: Band Edge

Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	5	823.98	-23.97	-13	PASS
GSM850	251	5	849.02	-24.59	-13	PASS
EGPRS850	128	8	823.99	-16.84	-13	PASS
EGPRS850	251	8	849.02	-17.35	-13	PASS
GSM1900	512	0	1849.98	-27.78	-13	PASS
GSM1900	810	0	1910.02	-26.87	-13	PASS
EGPRS1900	512	2	1849.97	-16.59	-13	PASS
EGPRS1900	810	2	1910.01	-16.96	-13	PASS

Test Graphs

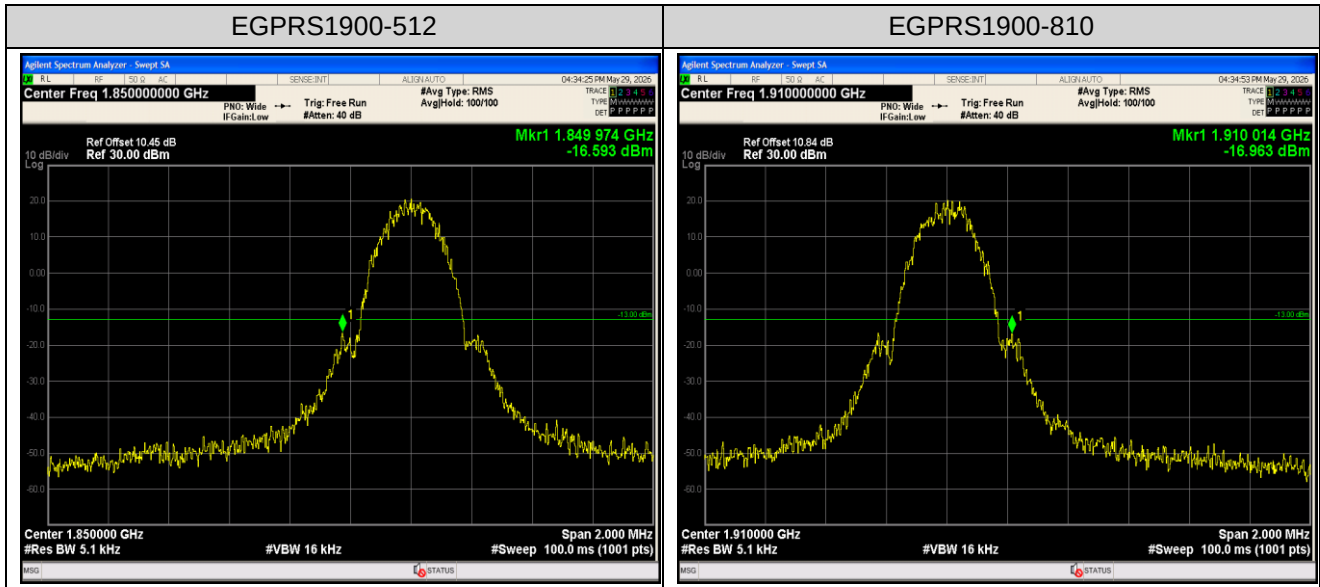


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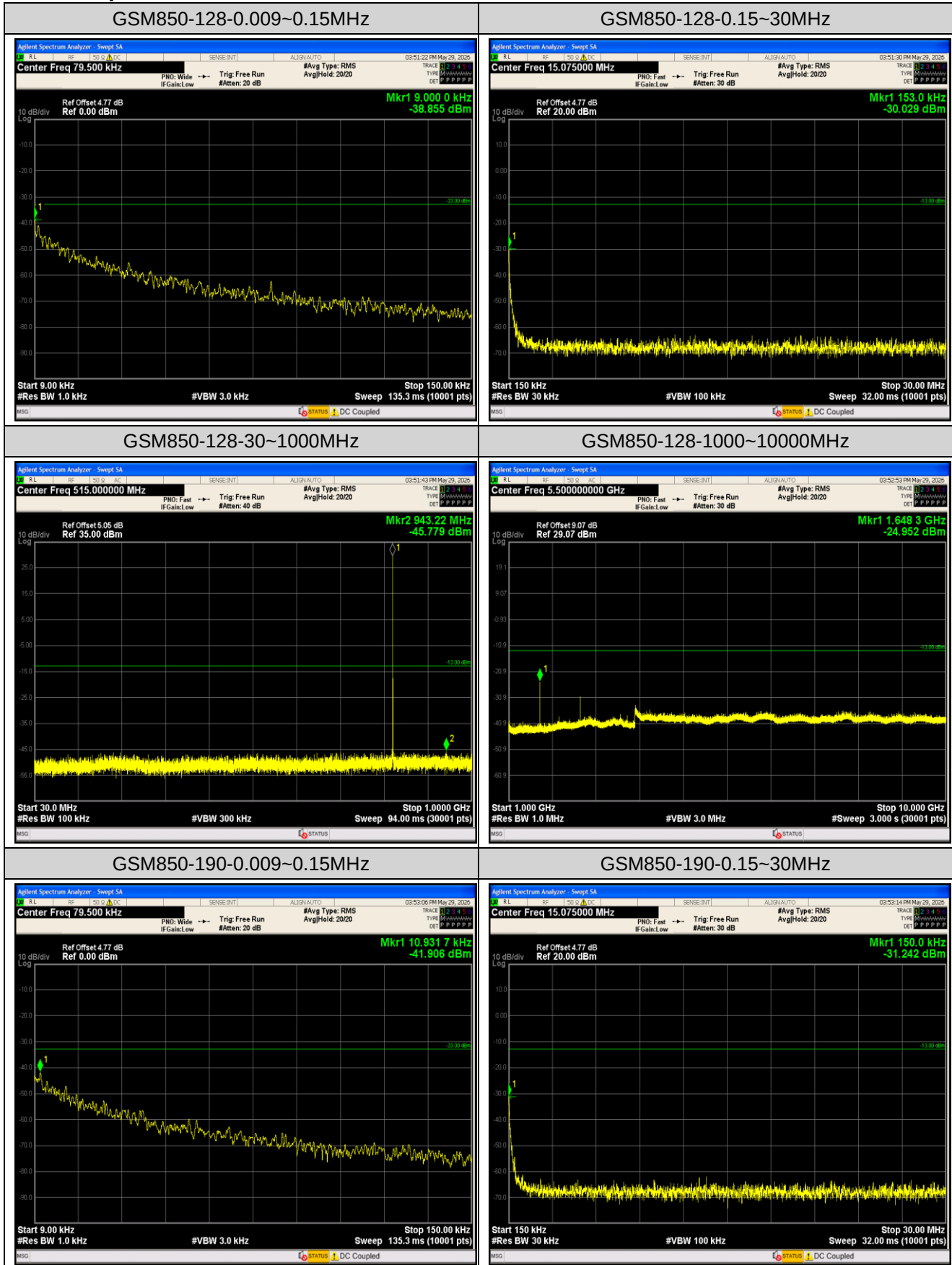
Appendix E: Conducted Spurious Emission

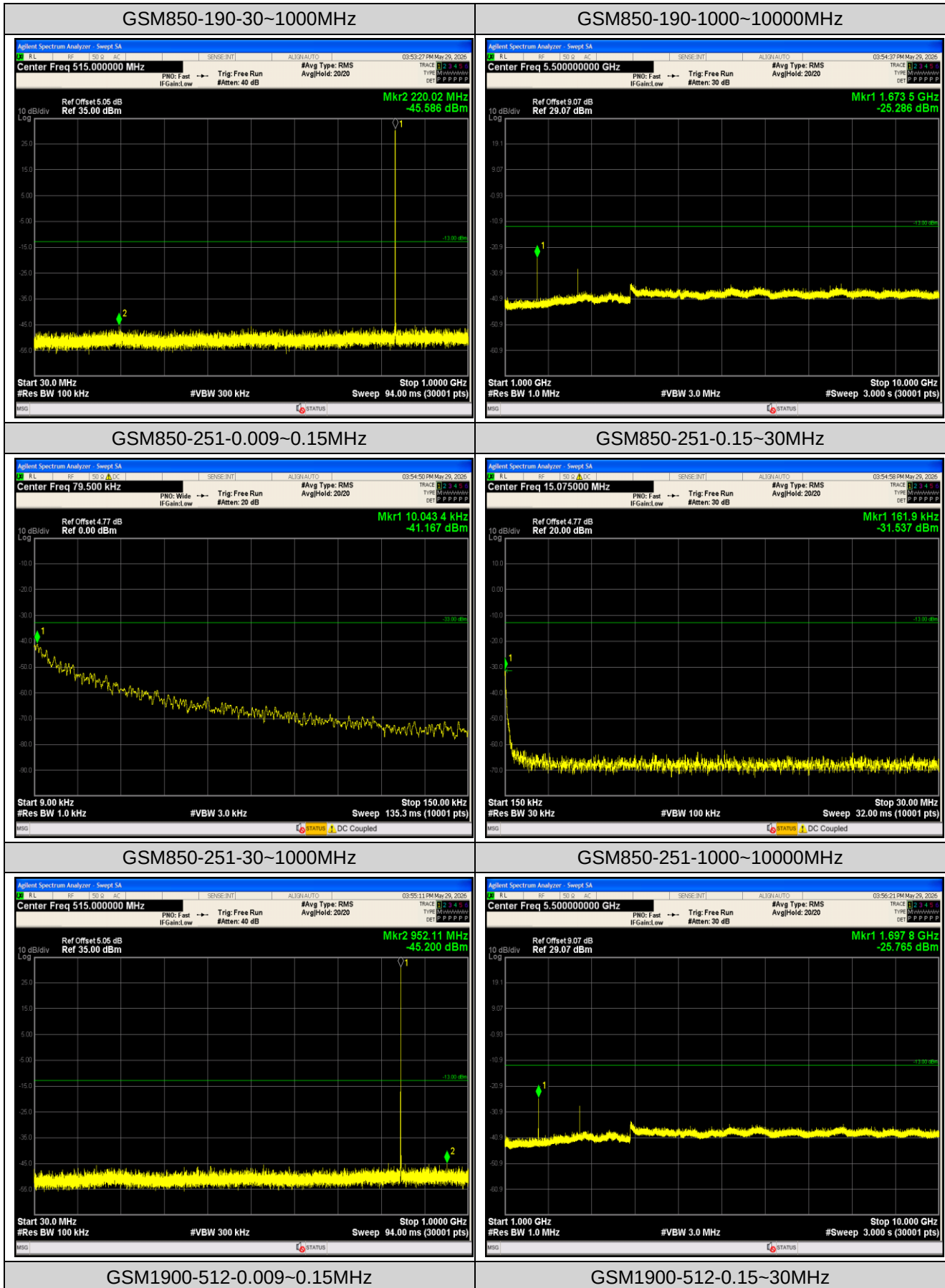
Test Result

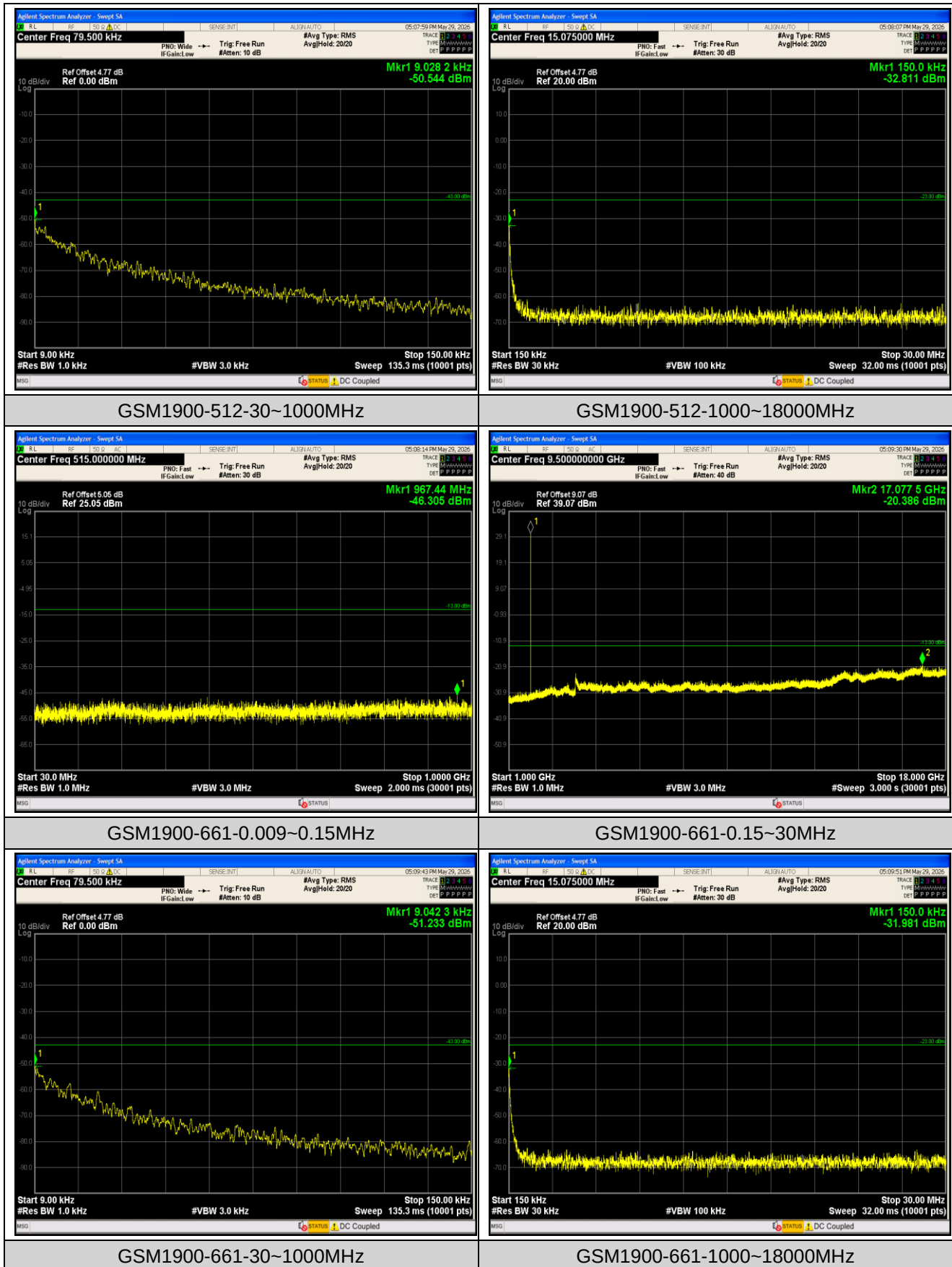
Band	Channel	PCL	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	5	0.009~0.15MHz	0.01	-38.86	-33	PASS
GSM850	128	5	0.15~30MHz	0.15	-30.03	-13	PASS
GSM850	128	5	30~1000MHz	943.22	-45.78	-13	PASS
GSM850	128	5	1000~10000MHz	1648.3	-24.95	-13	PASS
GSM850	190	5	0.009~0.15MHz	0.01	-41.91	-33	PASS
GSM850	190	5	0.15~30MHz	0.15	-31.24	-13	PASS
GSM850	190	5	30~1000MHz	220.02	-45.59	-13	PASS
GSM850	190	5	1000~10000MHz	1673.5	-25.29	-13	PASS
GSM850	251	5	0.009~0.15MHz	0.01	-41.17	-33	PASS
GSM850	251	5	0.15~30MHz	0.16	-31.54	-13	PASS
GSM850	251	5	30~1000MHz	952.11	-45.2	-13	PASS
GSM850	251	5	1000~10000MHz	1697.8	-25.77	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-50.54	-43	PASS
GSM1900	512	0	0.15~30MHz	0.15	-32.81	-23	PASS
GSM1900	512	0	30~1000MHz	967.44	-46.31	-13	PASS
GSM1900	512	0	1000~18000MHz	17077.47	-20.39	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-51.23	-43	PASS
GSM1900	661	0	0.15~30MHz	0.15	-31.98	-23	PASS
GSM1900	661	0	30~1000MHz	927.48	-45.89	-13	PASS
GSM1900	661	0	1000~18000MHz	16434.3	-20.53	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-51.46	-43	PASS
GSM1900	810	0	0.15~30MHz	0.15	-29.81	-23	PASS
GSM1900	810	0	30~1000MHz	855.96	-45.9	-13	PASS
GSM1900	810	0	1000~18000MHz	17951.27	-20.22	-13	PASS

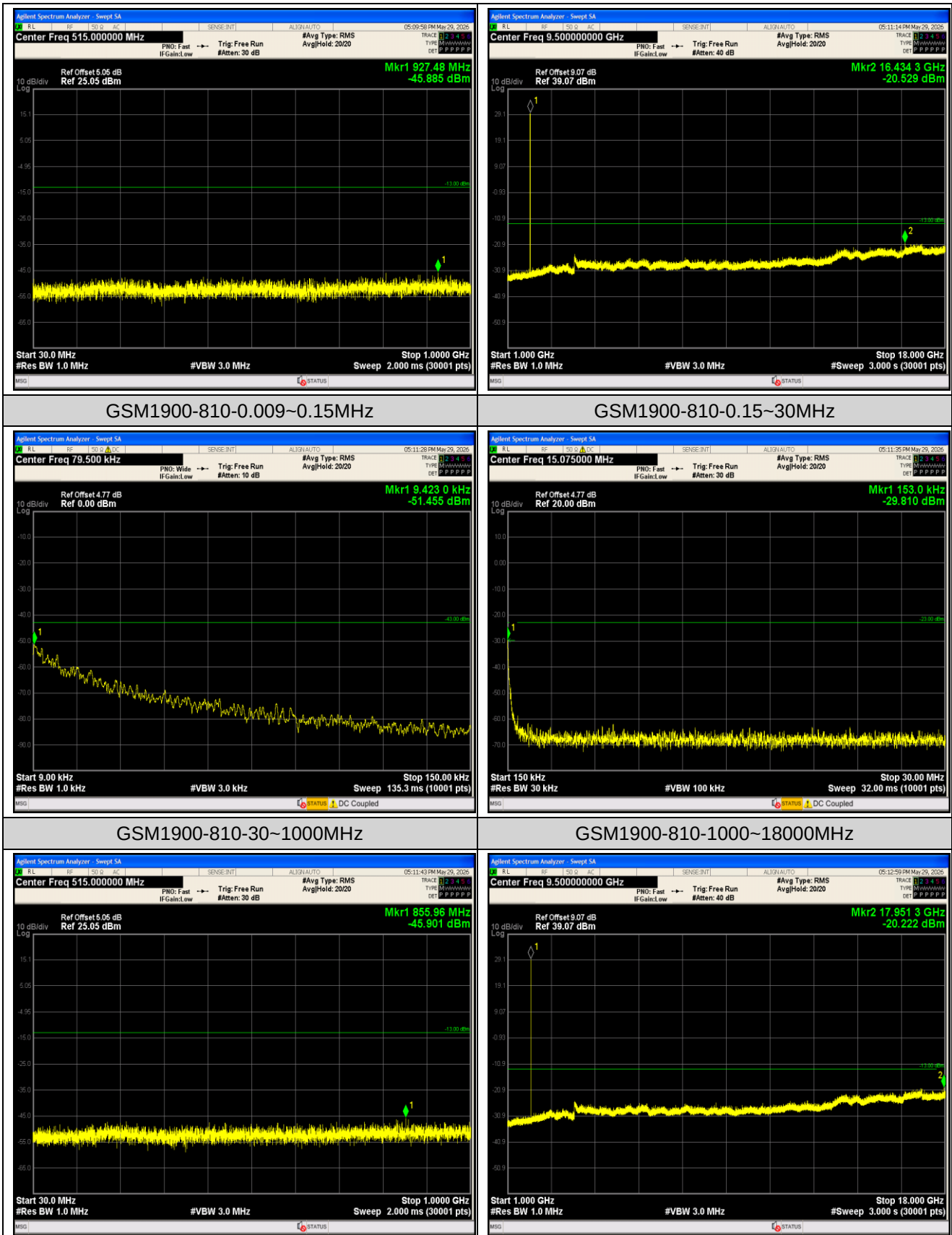
Remark: All channel and all modulation had been tested, but only the worst case data displayed in this report.

Test Graphs









Appendix 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		
3.87	-30	4.49	0.005367	±2.5	Pass
	-20	5.52	0.006598		
	-10	3.20	0.003825		
	0	7.07	0.008451		
	10	4.26	0.005092		
	20	3.45	0.004124		
	30	8.07	0.009646		
	40	5.75	0.006873		
	50	6.39	0.007638		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	8.30	0.009921	±2.5	Pass
	3.87	7.81	0.009335		
	4.45	0.61	0.000729		
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		
3.87	-30	7.68	0.009180	±2.5	Pass
	-20	11.82	0.014129		
	-10	5.65	0.006754		
	0	9.27	0.011081		
	10	6.07	0.007256		
	20	9.78	0.011690		
	30	9.94	0.011881		
	40	6.78	0.008104		
	50	12.40	0.014822		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	7.75	0.009264	±2.5	Pass
	3.87	10.91	0.013041		
	4.45	8.56	0.010232		
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		
3.87	-30	7.62	0.004053	Within authorized band for PCS 1900	Pass
	-20	0.87	0.000463		
	-10	-0.52	-0.000277		
	0	14.33	0.007622		
	10	9.98	0.005309		
	20	3.39	0.001803		
	30	4.36	0.002319		
	40	8.65	0.004601		
	50	7.14	0.003798		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	16.63	0.008846	Within authorized band for PCS 1900	Pass
	3.87	14.37	0.007644		
	4.45	3.03	0.001612		
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		
3.87	-30	9.40	0.005000	Within authorized band for PCS 1900	Pass
	-20	22.24	0.011830		
	-10	18.69	0.009941		
	0	6.75	0.003590		
	10	10.78	0.005734		
	20	4.65	0.002473		
	30	8.39	0.004463		
	40	10.07	0.005356		
	50	20.02	0.010649		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	9.43	0.005016	Within authorized band for PCS 1900	Pass
	3.87	12.56	0.006681		
	4.45	-2.03	-0.001080		
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

