

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	33.79	29.7	38.45	PASS
GSM850	190	5	33.98	29.89	38.45	PASS
GSM850	251	5	33.95	29.86	38.45	PASS
GSM1900	512	0	30.28	29.26	33.00	PASS
GSM1900	661	0	30.58	29.56	33.00	PASS
GSM1900	810	0	30.64	29.62	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	5	1	33.98	29.89	38.45	PASS
GPRS850	128	5	2	30.92	26.83	38.45	PASS
GPRS850	128	5	3	28.79	24.7	38.45	PASS
GPRS850	128	5	4	26.39	22.3	38.45	PASS
GPRS850	190	5	1	34.15	30.06	38.45	PASS
GPRS850	190	5	2	31.10	27.01	38.45	PASS
GPRS850	190	5	3	28.98	24.89	38.45	PASS
GPRS850	190	5	4	26.60	22.51	38.45	PASS
GPRS850	251	5	1	34.07	29.98	38.45	PASS
GPRS850	251	5	2	31.00	26.91	38.45	PASS
GPRS850	251	5	3	28.84	24.75	38.45	PASS
GPRS850	251	5	4	26.47	22.38	38.45	PASS
GPRS1900	512	0	1	30.26	29.24	33.00	PASS
GPRS1900	512	0	2	26.83	25.81	33.00	PASS
GPRS1900	512	0	3	25.06	24.04	33.00	PASS
GPRS1900	512	0	4	22.77	21.75	33.00	PASS
GPRS1900	661	0	1	30.54	29.52	33.00	PASS
GPRS1900	661	0	2	26.74	25.72	33.00	PASS
GPRS1900	661	0	3	24.97	23.95	33.00	PASS
GPRS1900	661	0	4	22.69	21.67	33.00	PASS
GPRS1900	810	0	1	30.61	29.59	33.00	PASS
GPRS1900	810	0	2	26.29	25.27	33.00	PASS
GPRS1900	810	0	3	24.50	23.48	33.00	PASS
GPRS1900	810	0	4	22.21	21.19	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
EGPRS850	128	8	1	26.56	22.47	38.45	PASS
EGPRS850	128	8	2	25.33	21.24	38.45	PASS
EGPRS850	128	8	3	23.01	18.92	38.45	PASS
EGPRS850	128	8	4	20.68	16.59	38.45	PASS
EGPRS850	190	8	1	26.76	22.67	38.45	PASS
EGPRS850	190	8	2	25.51	21.42	38.45	PASS
EGPRS850	190	8	3	23.21	19.12	38.45	PASS
EGPRS850	190	8	4	21.27	17.18	38.45	PASS
EGPRS850	251	8	1	26.58	22.49	38.45	PASS
EGPRS850	251	8	2	25.41	21.32	38.45	PASS
EGPRS850	251	8	3	23.13	19.04	38.45	PASS
EGPRS850	251	8	4	20.79	16.7	38.45	PASS
EGPRS1900	512	2	1	25.30	24.28	33.00	PASS
EGPRS1900	512	2	2	23.38	22.36	33.00	PASS
EGPRS1900	512	2	3	21.58	20.56	33.00	PASS
EGPRS1900	512	2	4	19.36	18.34	33.00	PASS
EGPRS1900	661	2	1	26.51	25.49	33.00	PASS
EGPRS1900	661	2	2	24.65	23.63	33.00	PASS
EGPRS1900	661	2	3	21.91	20.89	33.00	PASS
EGPRS1900	661	2	4	19.71	18.69	33.00	PASS
EGPRS1900	810	2	1	26.00	24.98	33.00	PASS
EGPRS1900	810	2	2	24.21	23.19	33.00	PASS
EGPRS1900	810	2	3	21.49	20.47	33.00	PASS
EGPRS1900	810	2	4	19.29	18.27	33.00	PASS

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

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

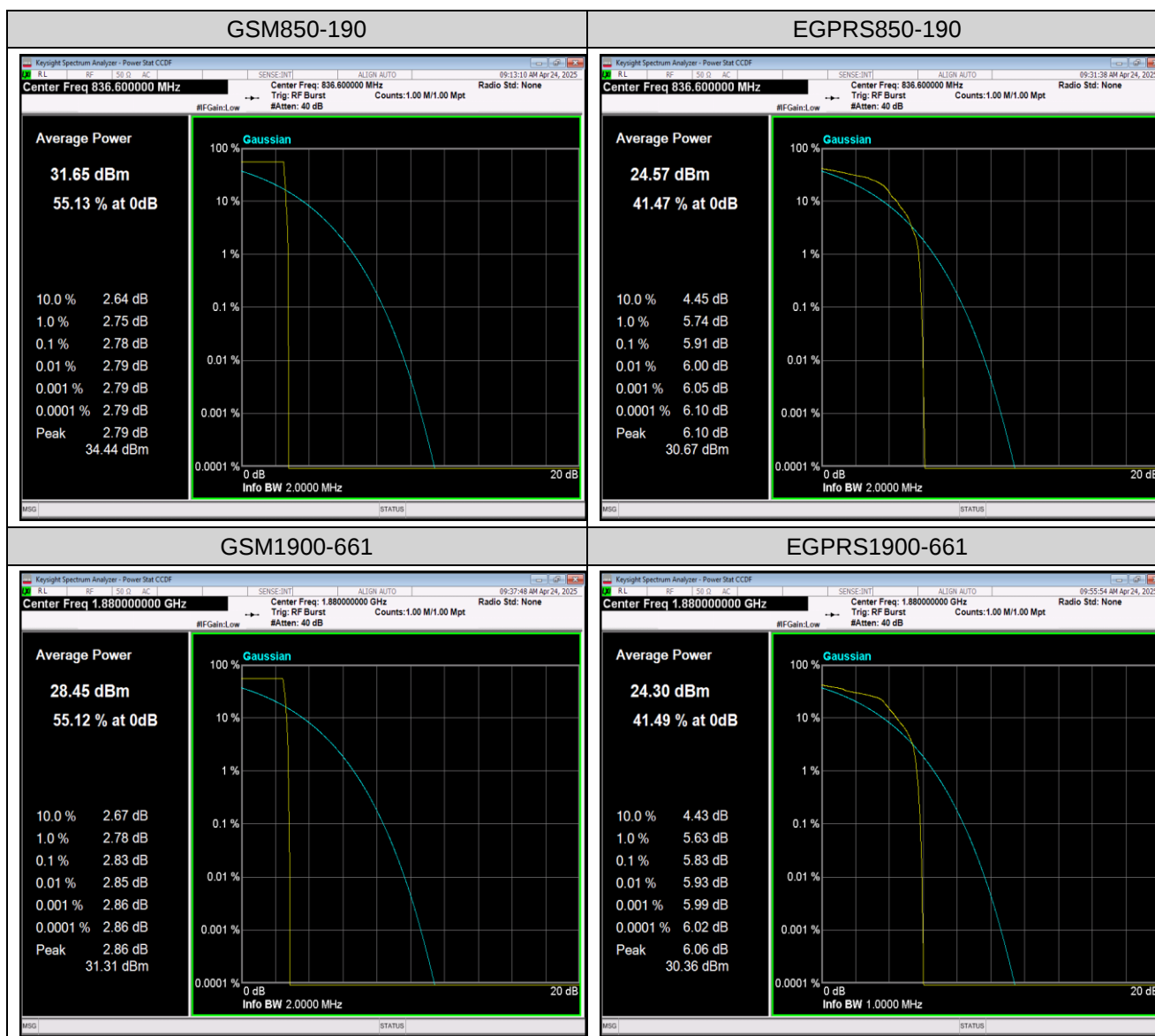
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	PCL	Result(dB)	Limit(dB)	Verdict
GSM850	190	5	2.78	13	PASS
EGPRS850	190	8	5.91	13	PASS
GSM1900	661	0	2.83	13	PASS
EGPRS1900	661	2	5.83	13	PASS

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

Test Graphs

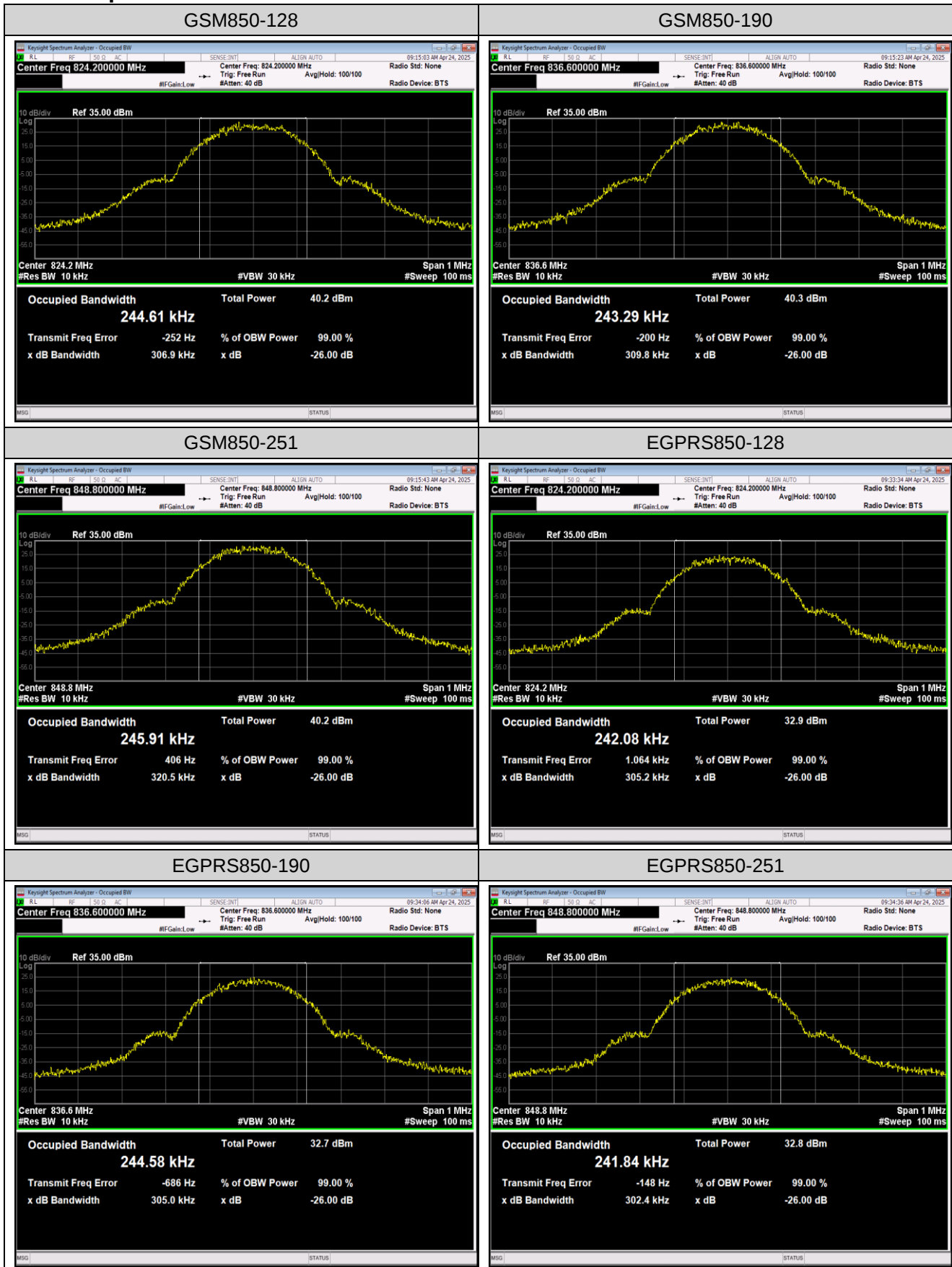


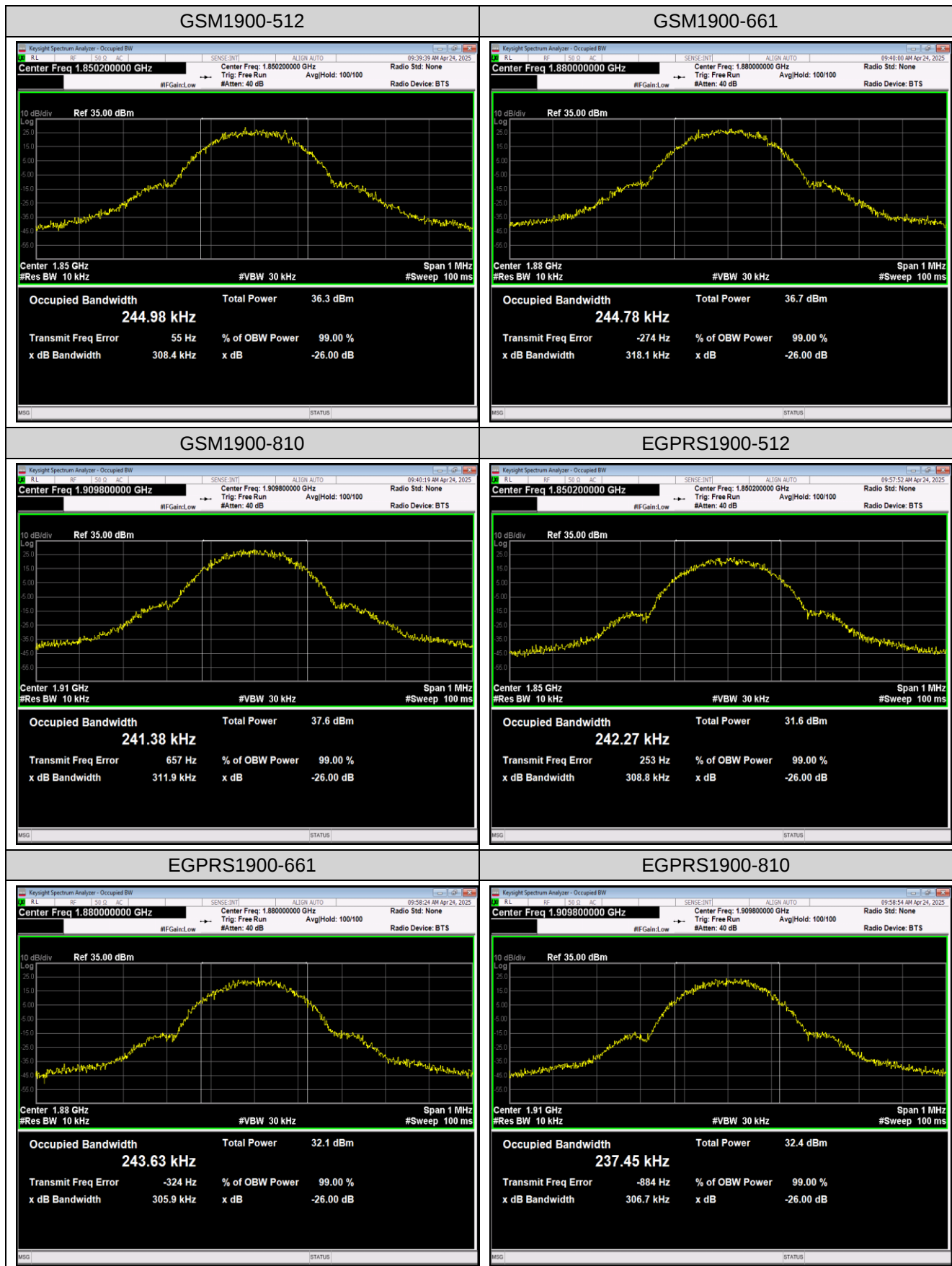
Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	5	0.24461	0.3069	---	PASS
GSM850	190	5	0.24329	0.3098	---	PASS
GSM850	251	5	0.24591	0.3205	---	PASS
EGPRS850	128	8	0.24208	0.3052	---	PASS
EGPRS850	190	8	0.24458	0.3050	---	PASS
EGPRS850	251	8	0.24184	0.3024	---	PASS
GSM1900	512	0	0.24498	0.3084	---	PASS
GSM1900	661	0	0.24478	0.3181	---	PASS
GSM1900	810	0	0.24138	0.3119	---	PASS
EGPRS1900	512	2	0.24227	0.3088	---	PASS
EGPRS1900	661	2	0.24363	0.3059	---	PASS
EGPRS1900	810	2	0.23745	0.3067	---	PASS

Test Graphs



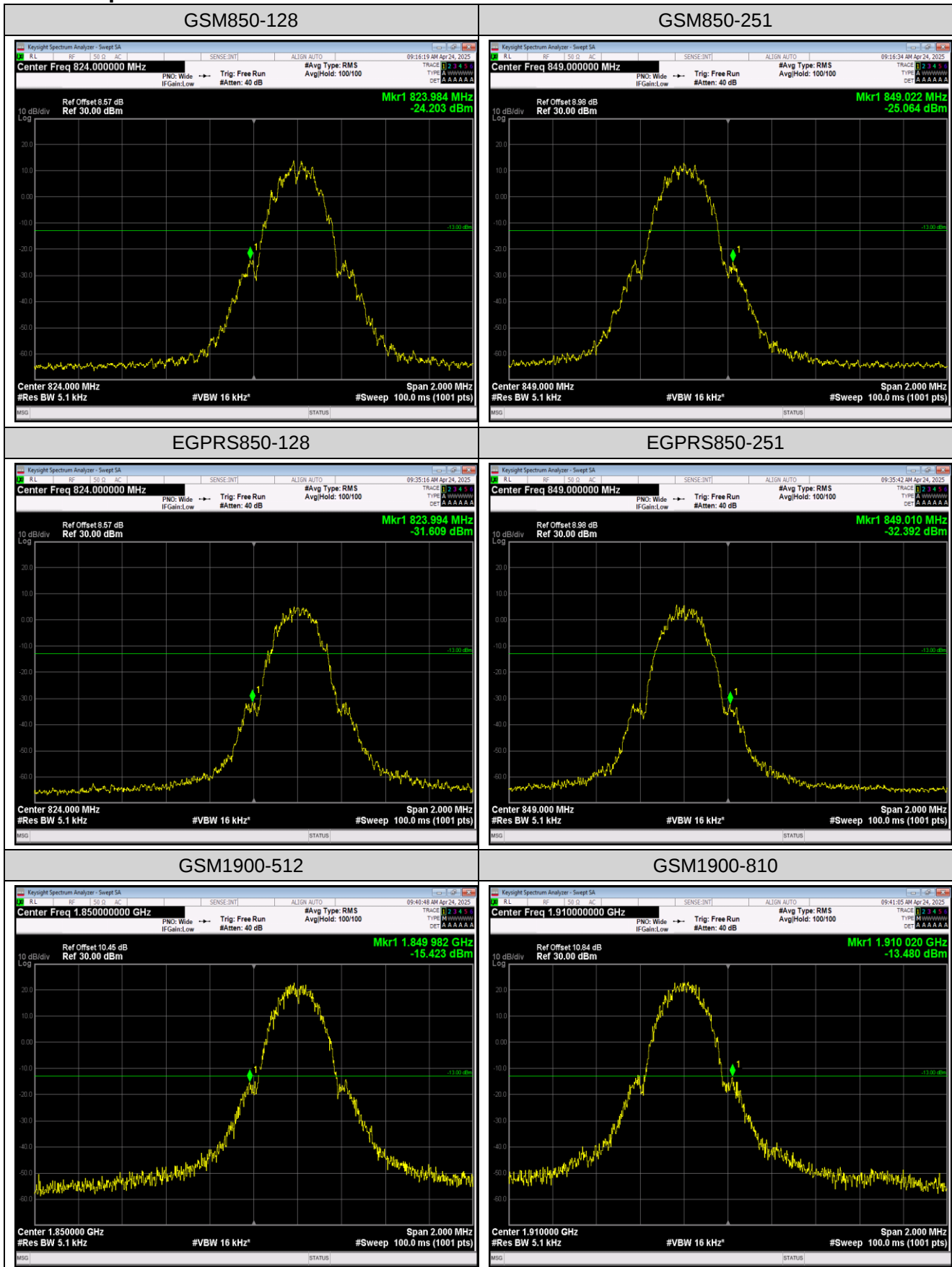


Appendix D: Band Edge

Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	5	823.98	-24.20	-13	PASS
GSM850	251	5	849.02	-25.06	-13	PASS
EGPRS850	128	8	823.99	-31.61	-13	PASS
EGPRS850	251	8	849.01	-32.39	-13	PASS
GSM1900	512	0	1849.98	-15.42	-13	PASS
GSM1900	810	0	1910.02	-13.48	-13	PASS
EGPRS1900	512	2	1849.98	-19.86	-13	PASS
EGPRS1900	810	2	1910.02	-18.50	-13	PASS

Test Graphs

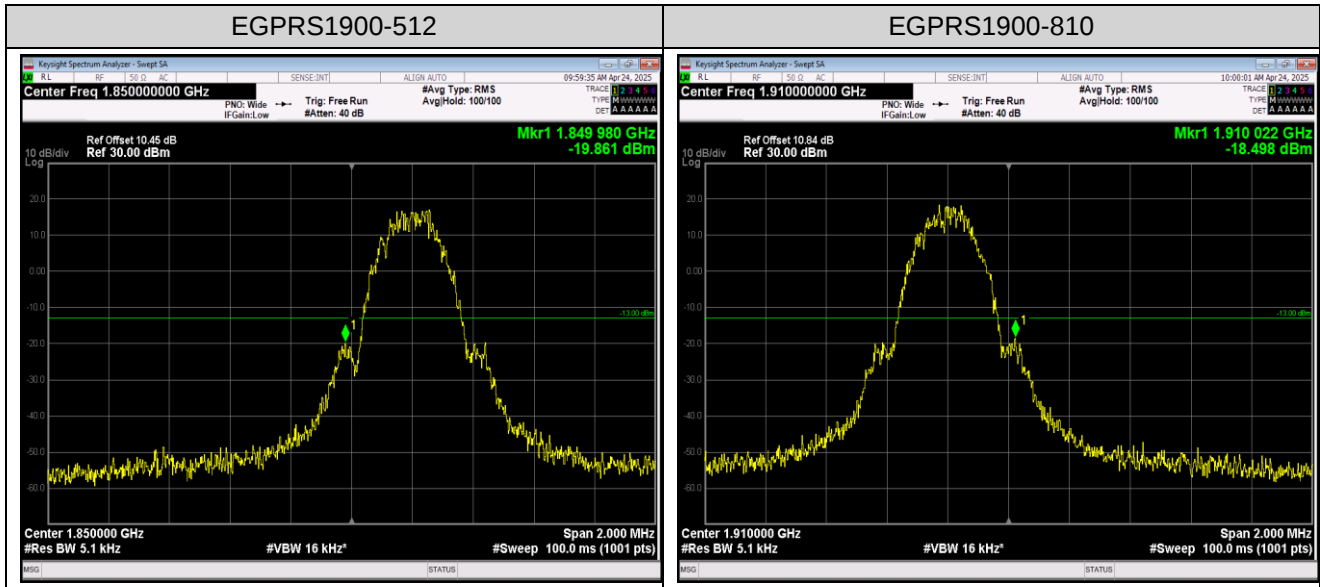


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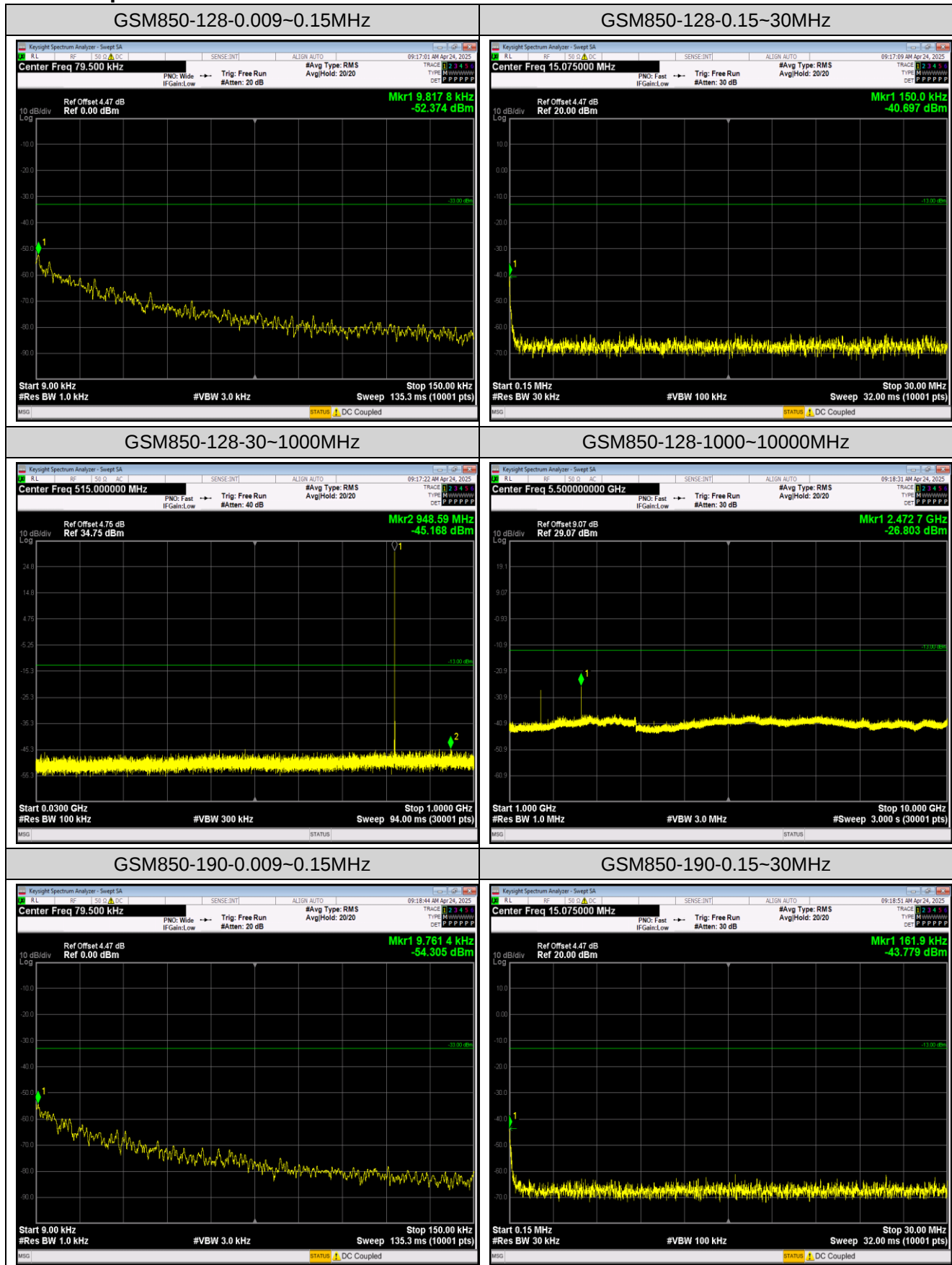
Appendix E: Conducted Spurious Emission

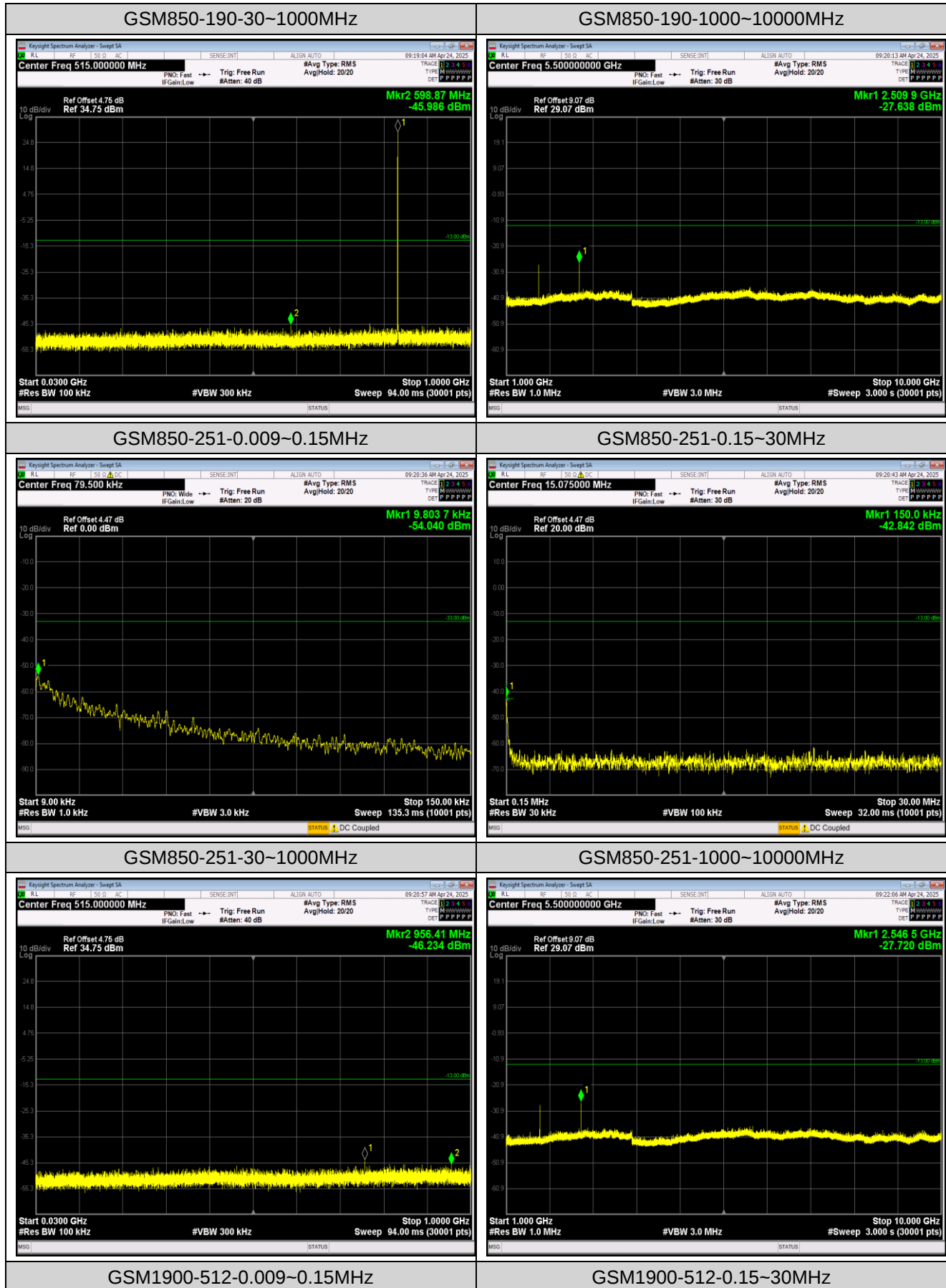
Test Result

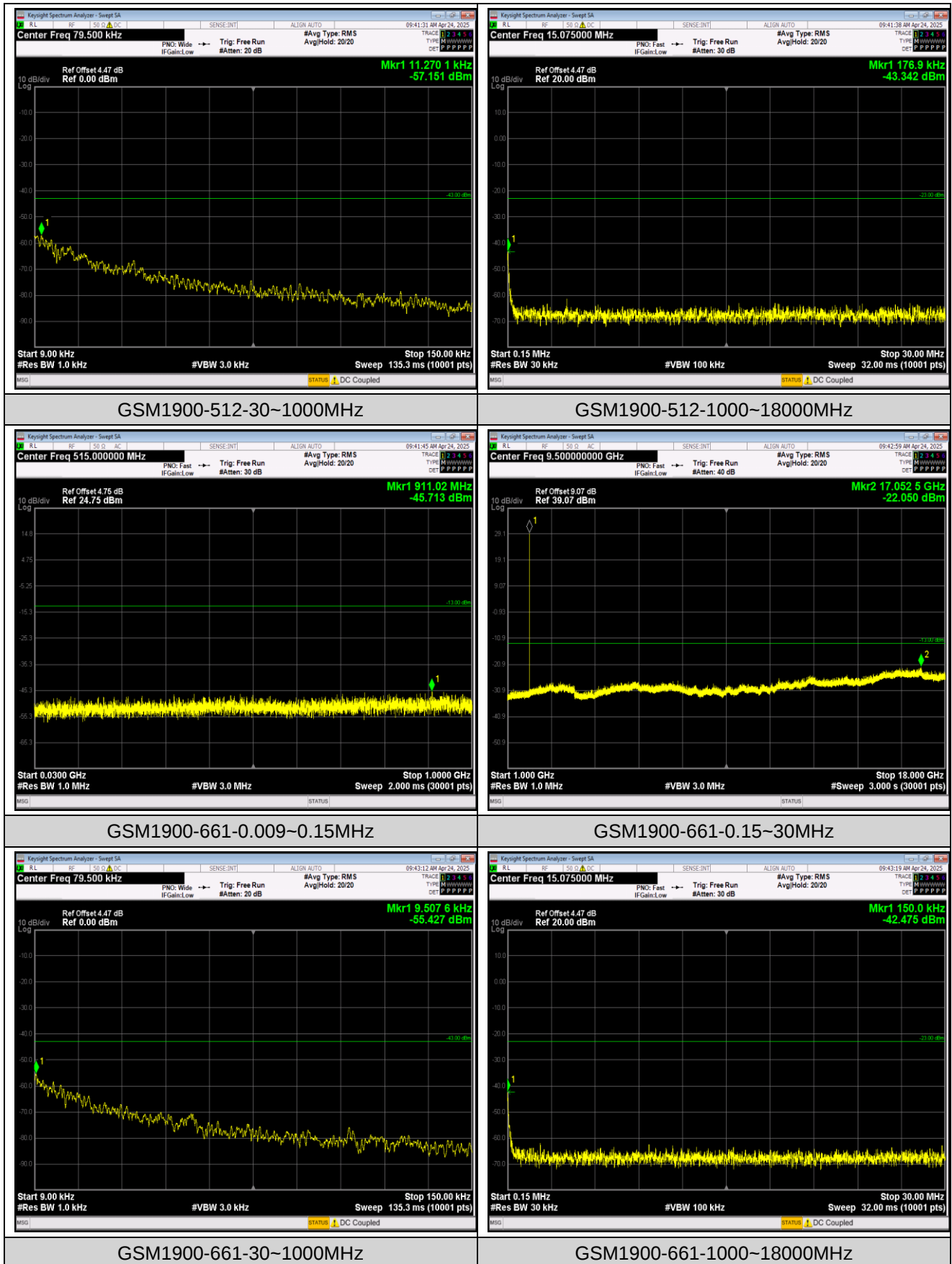
Band	Channel	PCL	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	5	0.009~0.15MHz	0.01	-52.37	-33	PASS
GSM850	128	5	0.15~30MHz	0.15	-40.7	-13	PASS
GSM850	128	5	30~1000MHz	948.59	-45.17	-13	PASS
GSM850	128	5	1000~10000MHz	2472.7	-26.8	-13	PASS
GSM850	190	5	0.009~0.15MHz	0.01	-54.31	-33	PASS
GSM850	190	5	0.15~30MHz	0.16	-43.78	-13	PASS
GSM850	190	5	30~1000MHz	598.87	-45.99	-13	PASS
GSM850	190	5	1000~10000MHz	2509.9	-27.64	-13	PASS
GSM850	251	5	0.009~0.15MHz	0.01	-54.04	-33	PASS
GSM850	251	5	0.15~30MHz	0.15	-42.84	-13	PASS
GSM850	251	5	30~1000MHz	956.41	-46.23	-13	PASS
GSM850	251	5	1000~10000MHz	2546.5	-27.72	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-57.15	-43	PASS
GSM1900	512	0	0.15~30MHz	0.18	-43.34	-23	PASS
GSM1900	512	0	30~1000MHz	911.02	-45.71	-13	PASS
GSM1900	512	0	1000~18000MHz	17052.53	-22.05	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-55.43	-43	PASS
GSM1900	661	0	0.15~30MHz	0.15	-42.48	-23	PASS
GSM1900	661	0	30~1000MHz	788.15	-45.58	-13	PASS
GSM1900	661	0	1000~18000MHz	16235.97	-22.13	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-55.19	-43	PASS
GSM1900	810	0	0.15~30MHz	0.16	-41.79	-23	PASS
GSM1900	810	0	30~1000MHz	446.91	-45.71	-13	PASS
GSM1900	810	0	1000~18000MHz	16150.97	-22.27	-13	PASS

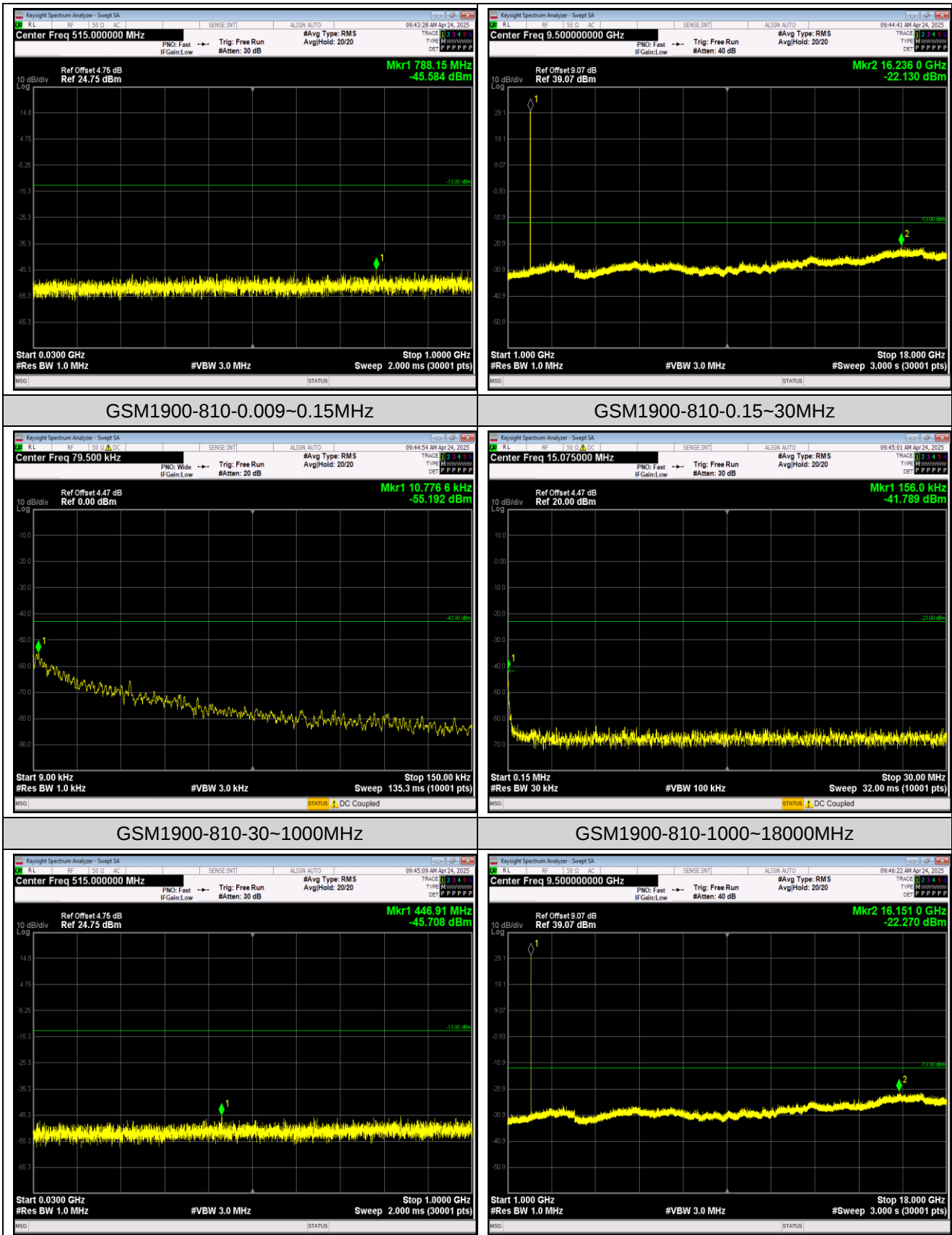
Remark: All channel and all modulation had been tested, but only the worst case data displayed in this report.

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	-2.20	-0.002630	±2.5	Pass
	-20	3.33	0.003980		
	-10	0.16	0.000191		
	0	0.23	0.000275		
	10	0.19	0.000227		
	20	3.81	0.004554		
	30	4.26	0.005092		
	40	4.46	0.005331		
	50	7.97	0.009527		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	4.58	0.005475	±2.5	Pass
	3.87	3.39	0.004052		
	4.45	0.84	0.001004		
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		
3.87	-30	11.01	0.013160	±2.5	Pass
	-20	10.33	0.012348		
	-10	7.55	0.009025		
	0	10.78	0.012885		
	10	9.94	0.011881		
	20	9.62	0.011499		
	30	6.23	0.007447		
	40	6.46	0.007722		
	50	6.10	0.007291		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	8.81	0.010531	±2.5	Pass
	3.87	9.23	0.011033		
	4.45	5.75	0.006873		
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		
3.87	-30	4.42	0.002351	Within authorized band for PCS 1900	Pass
	-20	14.50	0.007713		
	-10	12.79	0.006803		
	0	4.10	0.002181		
	10	5.29	0.002814		
	20	10.11	0.005378		
	30	8.33	0.004431		
	40	1.90	0.001011		
	50	0.10	0.000053		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	2.52	0.001340	Within authorized band for PCS 1900	Pass
	3.87	3.81	0.002027		
	4.45	-2.65	-0.001410		
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		
3.87	-30	6.04	0.003213	Within authorized band for PCS 1900	Pass
	-20	12.56	0.006681		
	-10	23.73	0.012622		
	0	24.60	0.013085		
	10	13.79	0.007335		
	20	4.71	0.002505		
	30	2.58	0.001372		
	40	8.07	0.004293		
	50	16.89	0.008984		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	20.02	0.010649	Within authorized band for PCS 1900	Pass
	3.87	8.56	0.004553		
	4.45	10.82	0.005755		
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

