

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	32.95	26.3	38.45	PASS
GSM850	190	5	33.78	27.13	38.45	PASS
GSM850	251	5	33.85	27.2	38.45	PASS
GSM1900	512	0	30.78	30.44	33.00	PASS
GSM1900	661	0	31.08	30.74	33.00	PASS
GSM1900	810	0	30.85	30.51	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	5	1	32.95	26.3	38.45	PASS
GPRS850	128	5	2	32.16	25.51	38.45	PASS
GPRS850	128	5	3	30.30	23.65	38.45	PASS
GPRS850	128	5	4	29.12	22.47	38.45	PASS
GPRS850	190	5	1	33.72	27.07	38.45	PASS
GPRS850	190	5	2	32.95	26.3	38.45	PASS
GPRS850	190	5	3	31.14	24.49	38.45	PASS
GPRS850	190	5	4	29.98	23.33	38.45	PASS
GPRS850	251	5	1	33.78	27.13	38.45	PASS
GPRS850	251	5	2	33.02	26.37	38.45	PASS
GPRS850	251	5	3	31.25	24.6	38.45	PASS
GPRS850	251	5	4	30.11	23.46	38.45	PASS
GPRS1900	512	0	1	30.81	30.47	33.00	PASS
GPRS1900	512	0	2	30.07	29.73	33.00	PASS
GPRS1900	512	0	3	28.21	27.87	33.00	PASS
GPRS1900	512	0	4	27.11	26.77	33.00	PASS
GPRS1900	661	0	1	31.07	30.73	33.00	PASS
GPRS1900	661	0	2	30.35	30.01	33.00	PASS
GPRS1900	661	0	3	28.56	28.22	33.00	PASS
GPRS1900	661	0	4	27.46	27.12	33.00	PASS
GPRS1900	810	0	1	30.83	30.49	33.00	PASS
GPRS1900	810	0	2	30.12	29.78	33.00	PASS
GPRS1900	810	0	3	28.39	28.05	33.00	PASS
GPRS1900	810	0	4	27.32	26.98	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
EGPRS850	128	8	1	27.85	21.2	38.45	PASS
EGPRS850	128	8	2	26.90	20.25	38.45	PASS
EGPRS850	128	8	3	25.15	18.5	38.45	PASS
EGPRS850	128	8	4	24.06	17.41	38.45	PASS
EGPRS850	190	8	1	27.71	21.06	38.45	PASS
EGPRS850	190	8	2	26.74	20.09	38.45	PASS
EGPRS850	190	8	3	24.94	18.29	38.45	PASS
EGPRS850	190	8	4	23.88	17.23	38.45	PASS
EGPRS850	251	8	1	27.96	21.31	38.45	PASS
EGPRS850	251	8	2	26.96	20.31	38.45	PASS
EGPRS850	251	8	3	25.23	18.58	38.45	PASS
EGPRS850	251	8	4	24.16	17.51	38.45	PASS
EGPRS1900	512	2	1	26.82	26.48	33.00	PASS
EGPRS1900	512	2	2	25.84	25.5	33.00	PASS
EGPRS1900	512	2	3	23.82	23.48	33.00	PASS
EGPRS1900	512	2	4	22.59	22.25	33.00	PASS
EGPRS1900	661	2	1	27.09	26.75	33.00	PASS
EGPRS1900	661	2	2	26.12	25.78	33.00	PASS
EGPRS1900	661	2	3	24.16	23.82	33.00	PASS
EGPRS1900	661	2	4	22.93	22.59	33.00	PASS
EGPRS1900	810	2	1	27.12	26.78	33.00	PASS
EGPRS1900	810	2	2	26.17	25.83	33.00	PASS
EGPRS1900	810	2	3	24.23	23.89	33.00	PASS
EGPRS1900	810	2	4	22.98	22.64	33.00	PASS

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

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

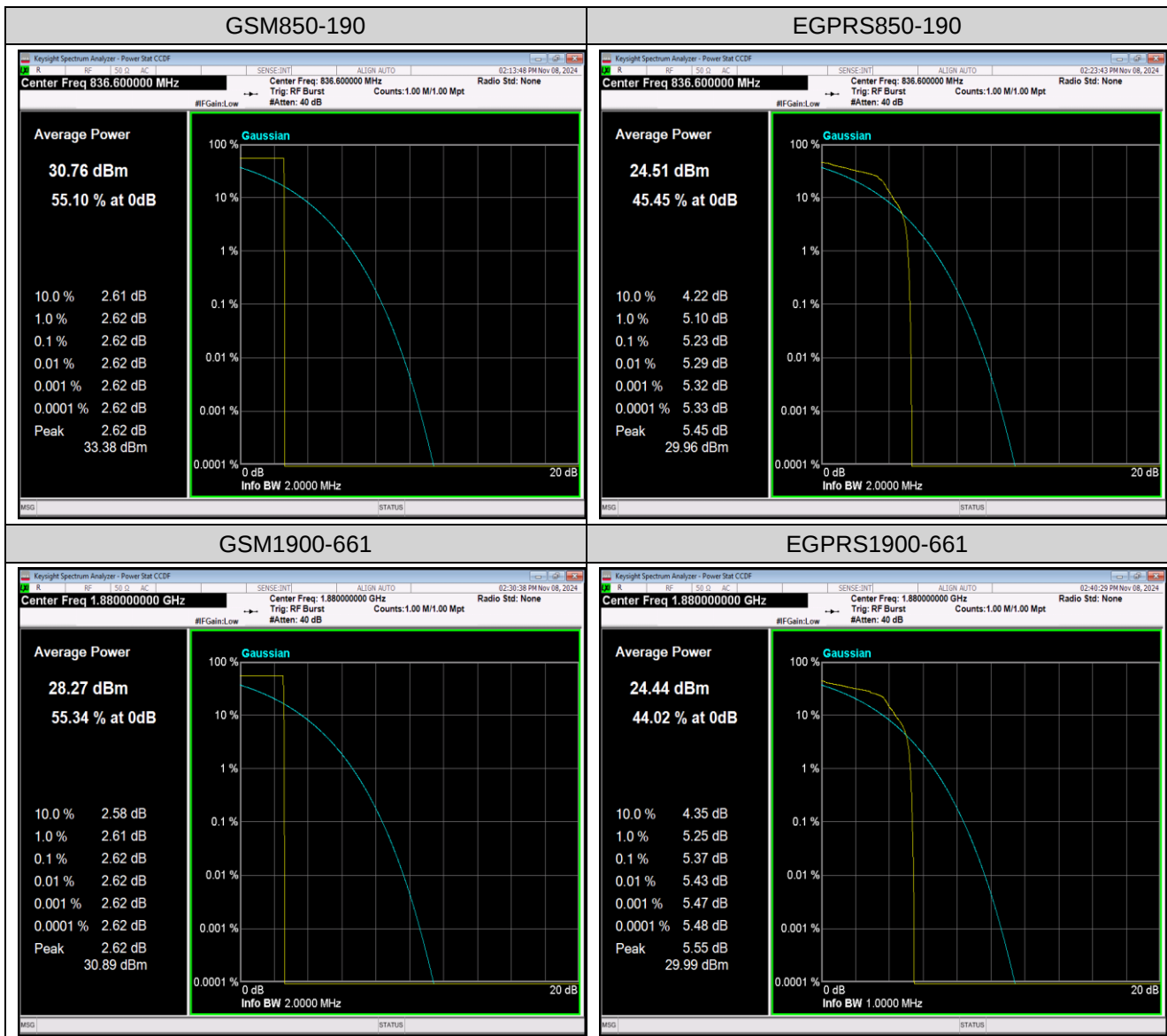
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	PCL	Result(dB)	Limit(dB)	Verdict
GSM850	190	5	2.62	13	PASS
EGPRS850	190	8	5.23	13	PASS
GSM1900	661	0	2.62	13	PASS
EGPRS1900	661	2	5.37	13	PASS

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

Test Graphs

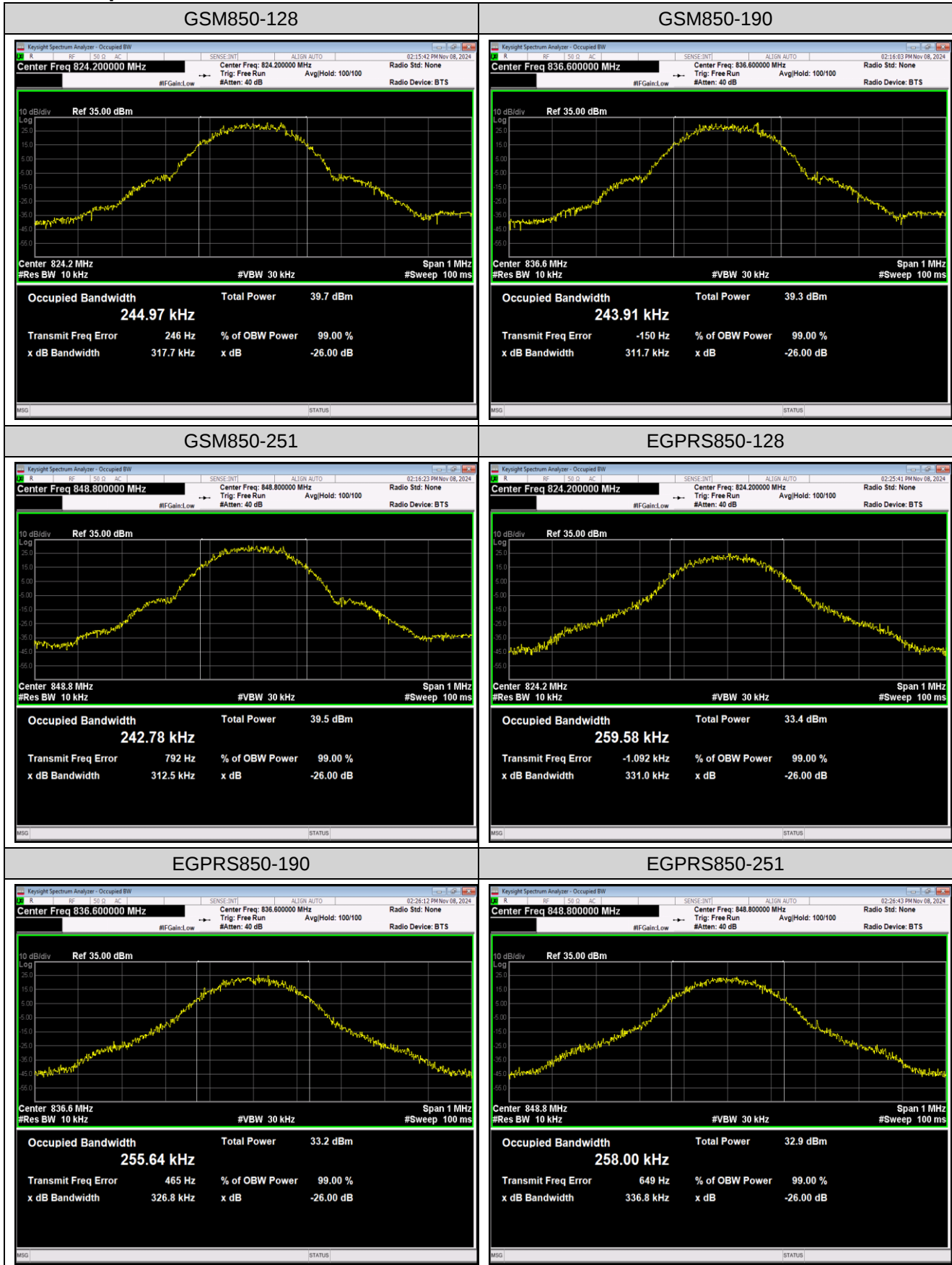


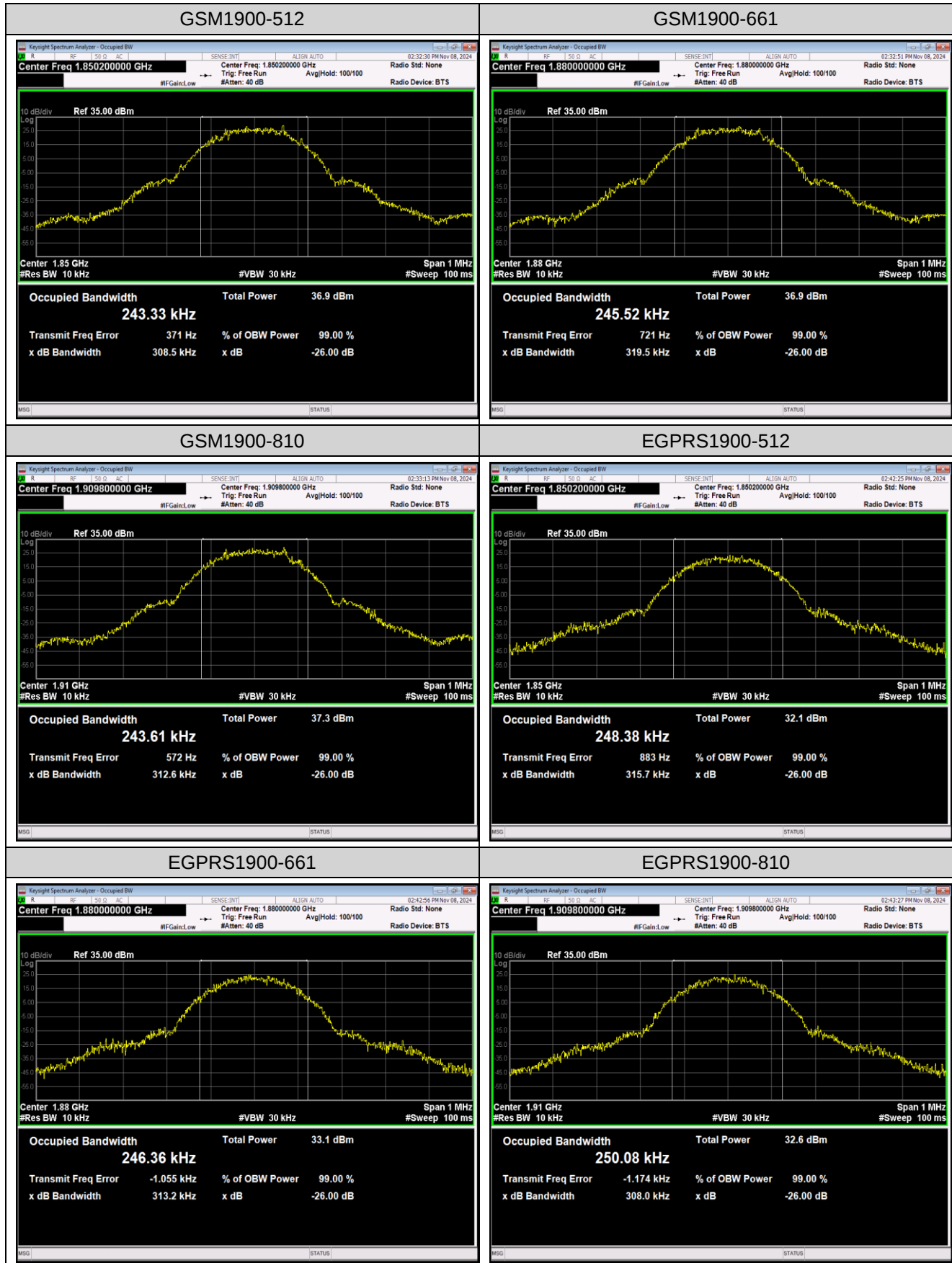
Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	5	0.24497	0.3177	---	PASS
GSM850	190	5	0.24391	0.3117	---	PASS
GSM850	251	5	0.24278	0.3125	---	PASS
EGPRS850	128	8	0.25958	0.3310	---	PASS
EGPRS850	190	8	0.25564	0.3268	---	PASS
EGPRS850	251	8	0.25800	0.3368	---	PASS
GSM1900	512	0	0.24333	0.3085	---	PASS
GSM1900	661	0	0.24552	0.3195	---	PASS
GSM1900	810	0	0.24361	0.3126	---	PASS
EGPRS1900	512	2	0.24838	0.3157	---	PASS
EGPRS1900	661	2	0.24636	0.3132	---	PASS
EGPRS1900	810	2	0.25008	0.3080	---	PASS

Test Graphs



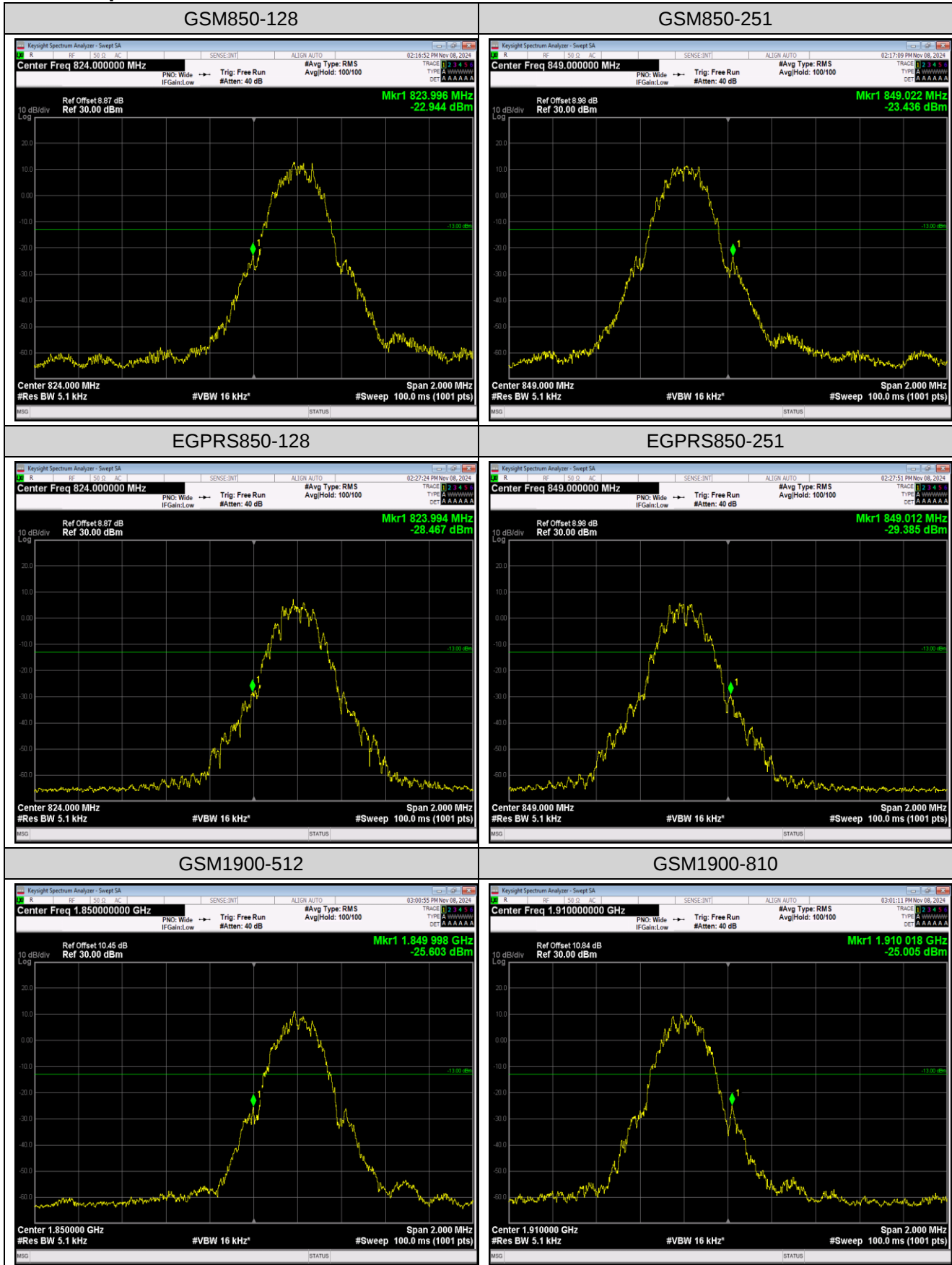


Appendix D: Band Edge

Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	5	824.00	-22.94	-13	PASS
GSM850	251	5	849.02	-23.44	-13	PASS
EGPRS850	128	8	823.99	-28.47	-13	PASS
EGPRS850	251	8	849.01	-29.38	-13	PASS
GSM1900	512	0	1850.00	-25.60	-13	PASS
GSM1900	810	0	1910.02	-25.00	-13	PASS
EGPRS1900	512	2	1849.99	-17.70	-13	PASS
EGPRS1900	810	2	1910.02	-20.96	-13	PASS

Test Graphs

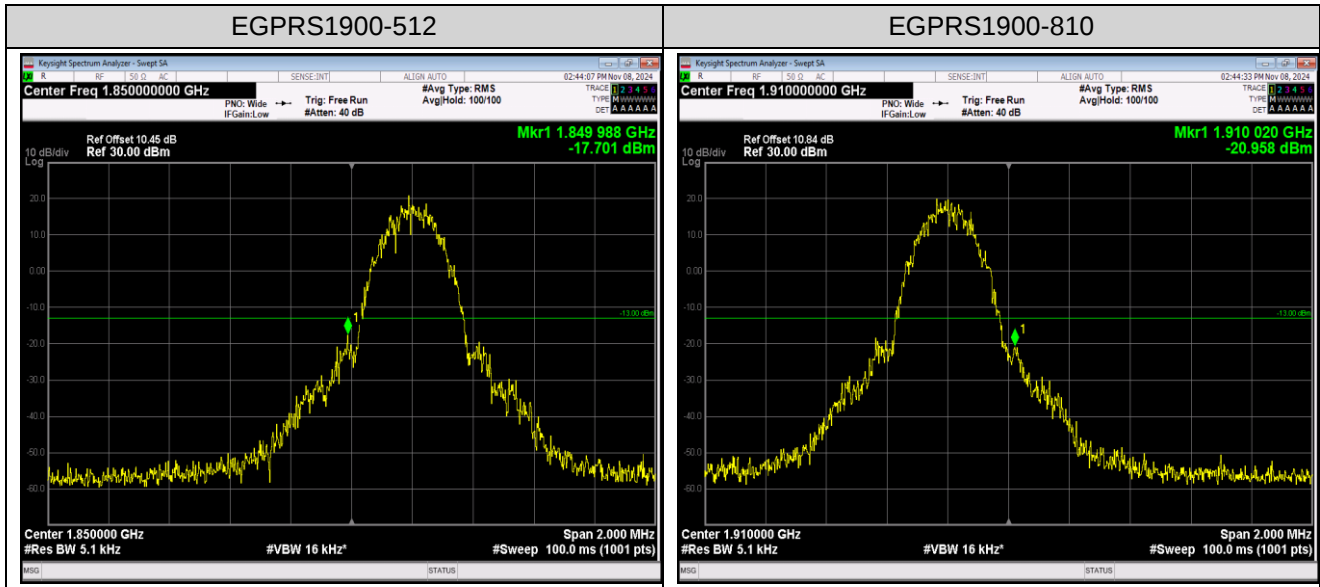


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Project No.: JYTSZR2410058



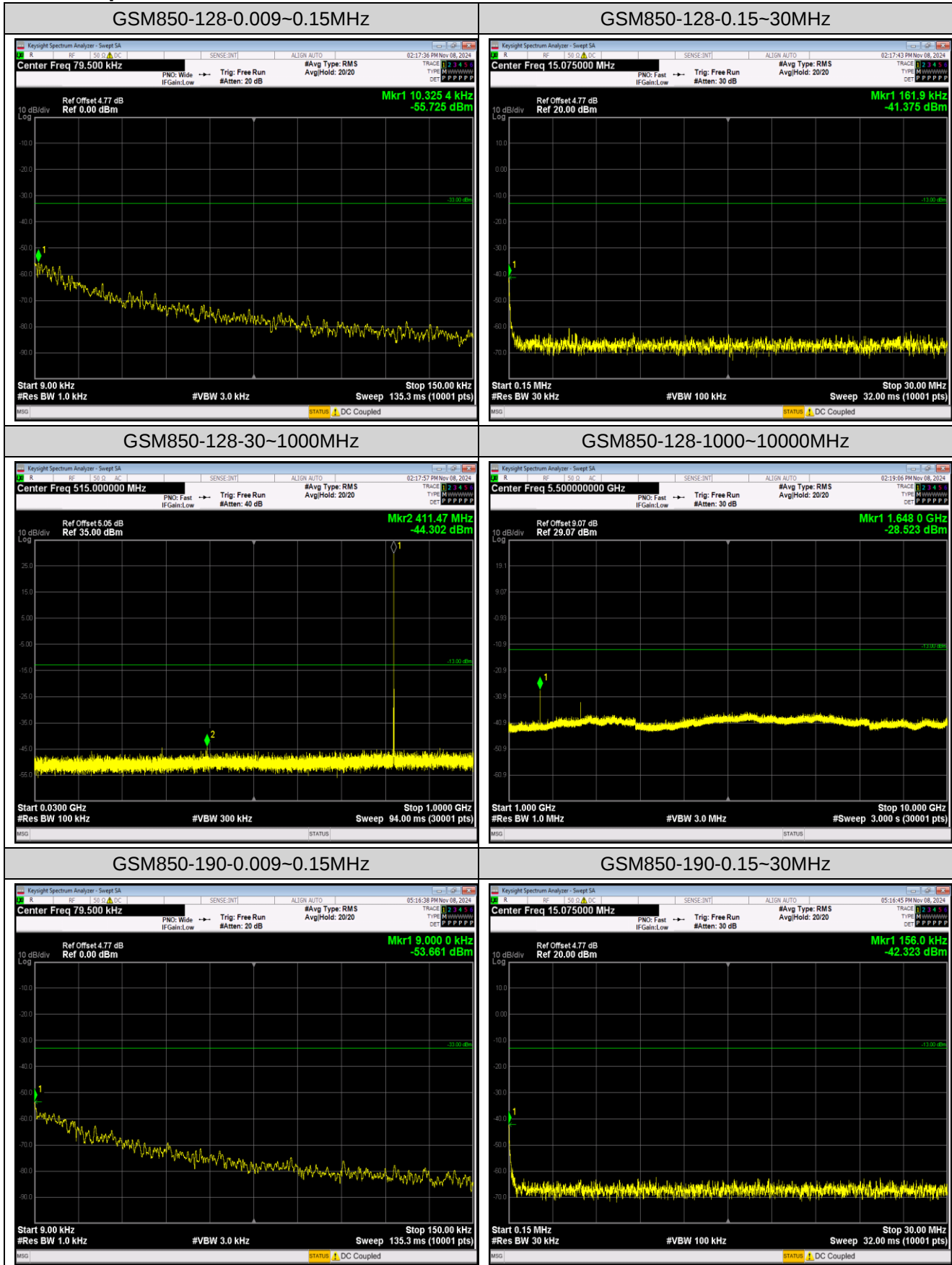
Appendix E: Conducted Spurious Emission

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	-55.73	-33	PASS
GSM850	128	5	0.15~30MHz	0.16	-41.38	-13	PASS
GSM850	128	5	30~1000MHz	411.47	-44.3	-13	PASS
GSM850	128	5	1000~10000MHz	1648	-28.52	-13	PASS
GSM850	190	5	0.009~0.15MHz	0.01	-53.66	-33	PASS
GSM850	190	5	0.15~30MHz	0.16	-42.32	-13	PASS
GSM850	190	5	30~1000MHz	986.13	-44.18	-13	PASS
GSM850	190	5	1000~10000MHz	1673.2	-28.51	-13	PASS
GSM850	251	5	0.009~0.15MHz	0.01	-53.2	-33	PASS
GSM850	251	5	0.15~30MHz	0.15	-43.01	-13	PASS
GSM850	251	5	30~1000MHz	712.2	-45.23	-13	PASS
GSM850	251	5	1000~10000MHz	1698.4	-33.54	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-55.87	-43	PASS
GSM1900	512	0	0.15~30MHz	0.15	-41.59	-23	PASS
GSM1900	512	0	30~1000MHz	972.03	-44.69	-13	PASS
GSM1900	512	0	1000~18000MHz	16710.27	-21.48	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-54.76	-43	PASS
GSM1900	661	0	0.15~30MHz	0.15	-42.09	-23	PASS
GSM1900	661	0	30~1000MHz	959.49	-44.46	-13	PASS
GSM1900	661	0	1000~18000MHz	16800.37	-21.7	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-55.75	-43	PASS
GSM1900	810	0	0.15~30MHz	0.15	-41.76	-23	PASS
GSM1900	810	0	30~1000MHz	905.3	-45.9	-13	PASS
GSM1900	810	0	1000~18000MHz	16949.4	-21.77	-13	PASS

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

Test Graphs

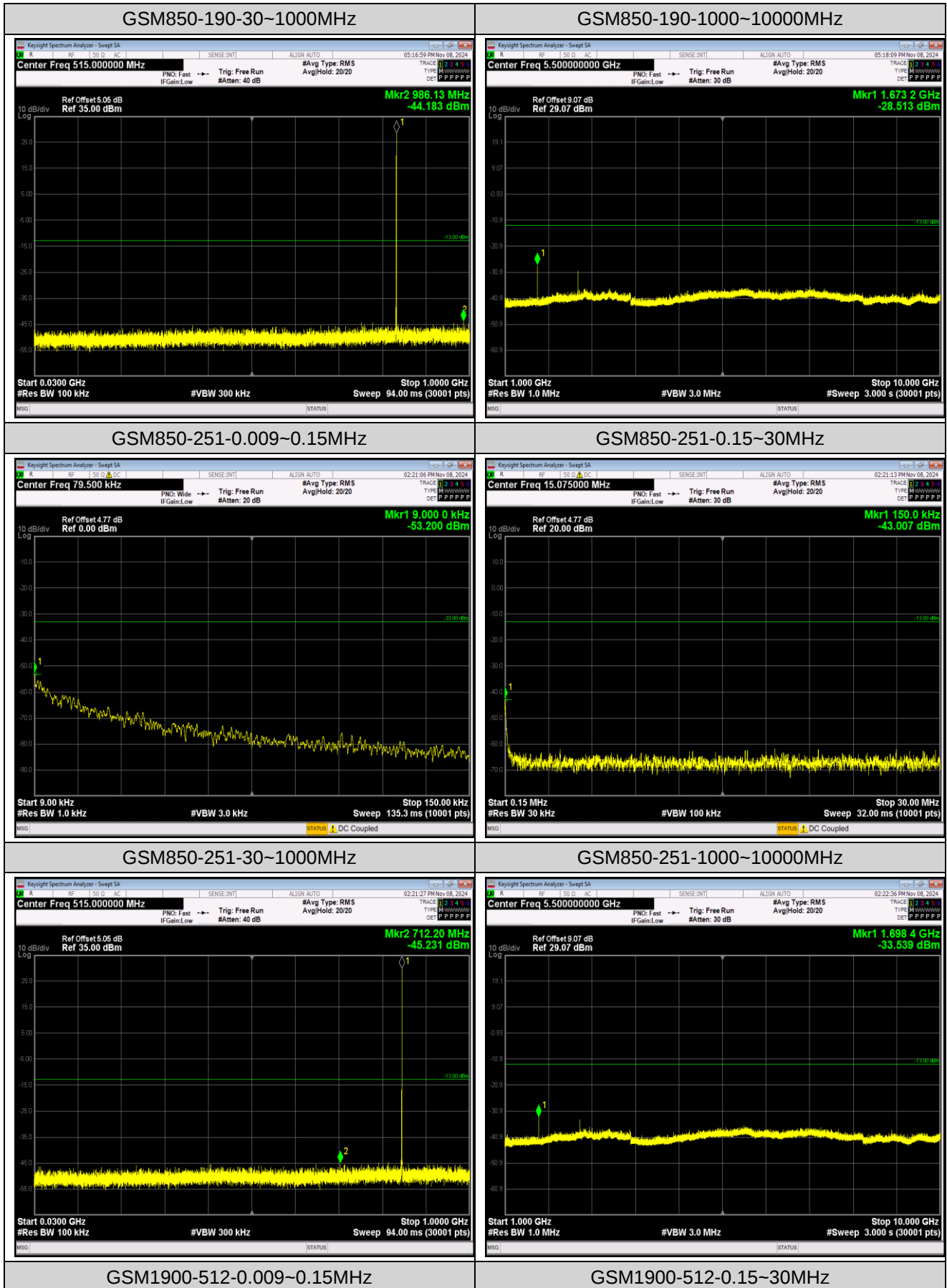


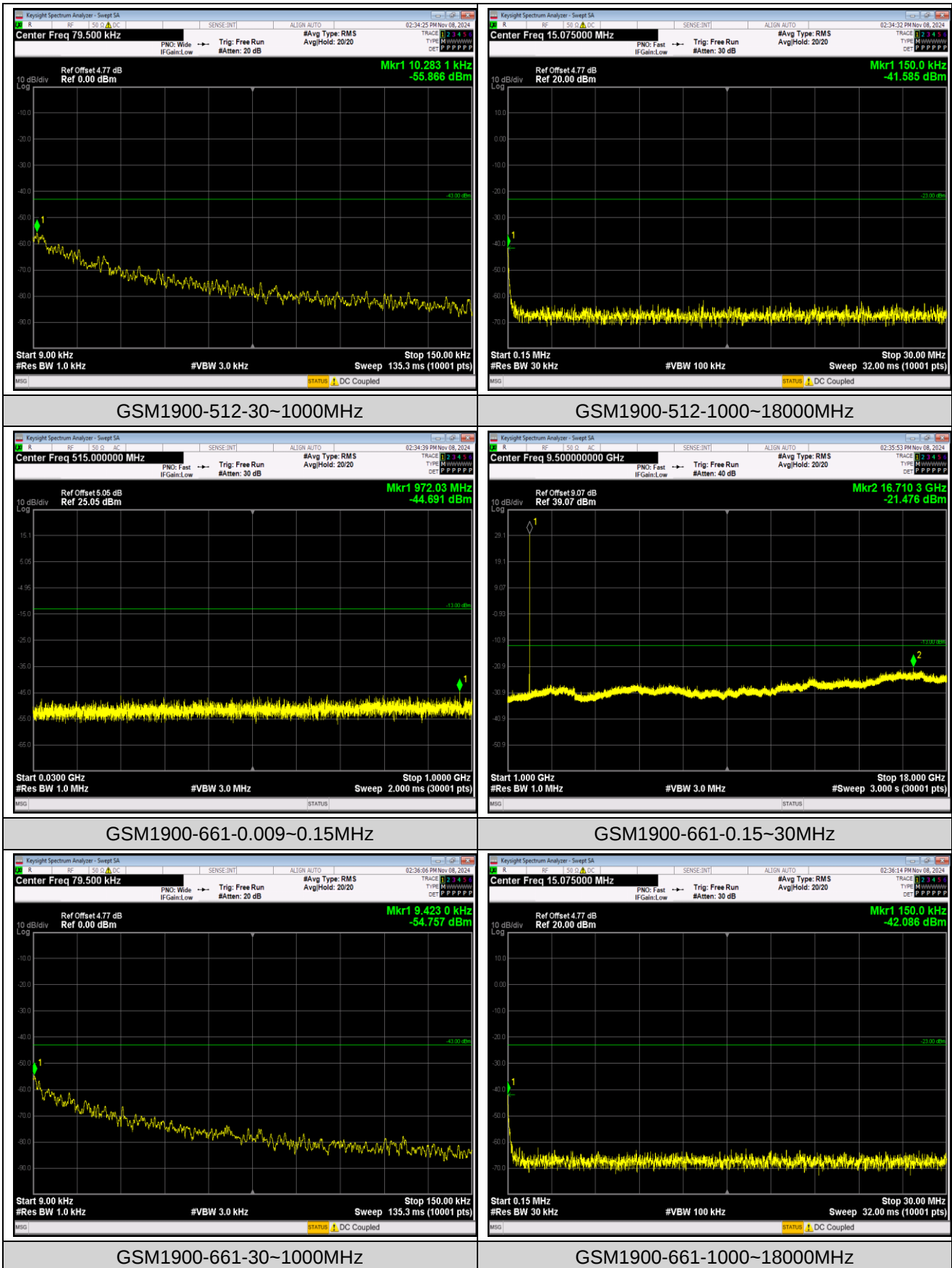
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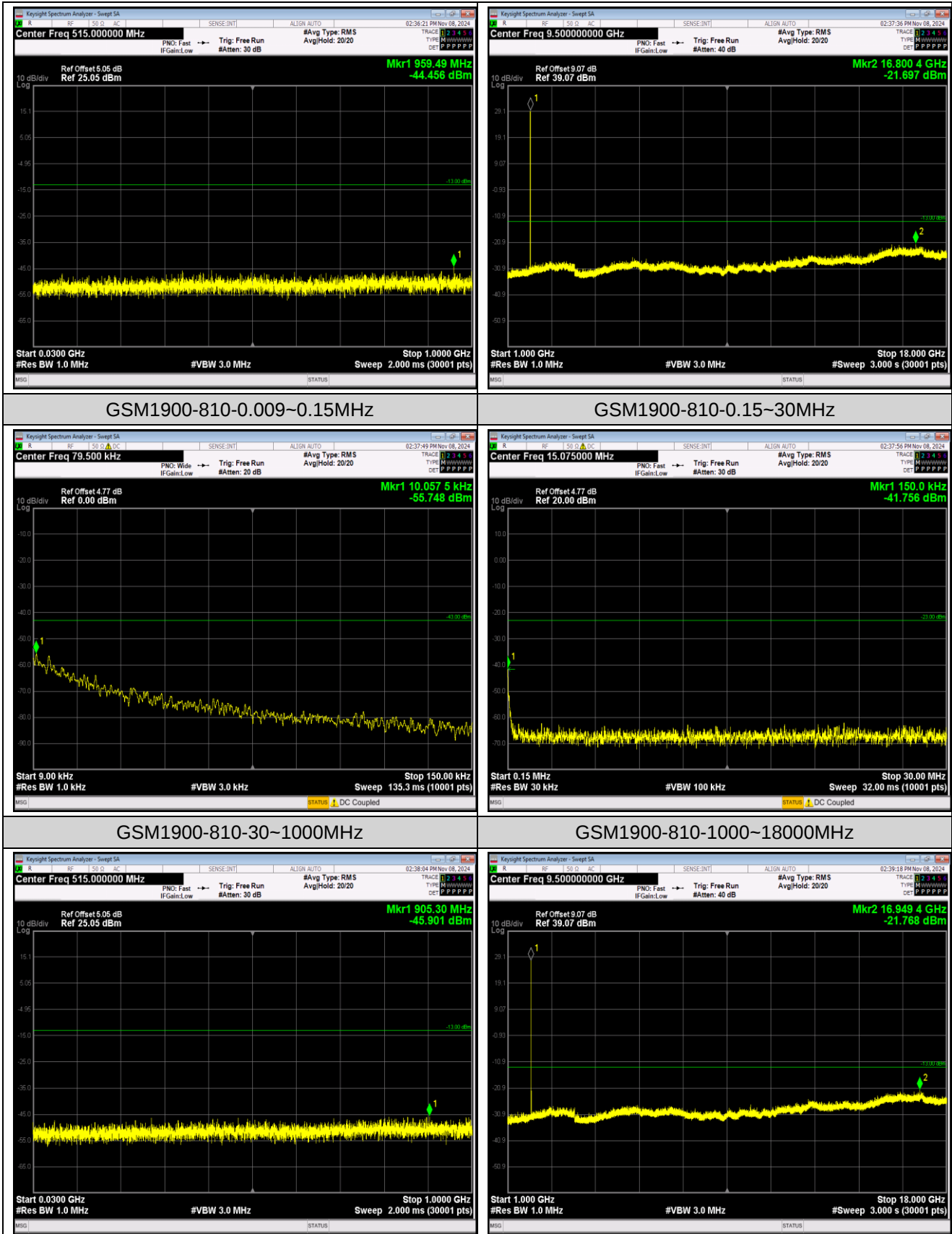
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Appendix F: Frequency Stability

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	-0.48	-0.000574	±2.5	Pass
	-20	-4.94	-0.005905		
	-10	-0.74	-0.000885		
	0	-0.23	-0.000275		
	10	0.06	0.000072		
	20	-3.20	-0.003825		
	30	1.26	0.001506		
	40	1.78	0.002128		
	50	1.45	0.001733		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.00	-5.00	-0.005977	±2.5	Pass
	3.87	-3.52	-0.004208		
	4.45	-4.39	-0.005247		
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	-10.04	-0.012001	±2.5	Pass
	-20	-13.62	-0.016280		
	-10	-9.78	-0.011690		
	0	-13.98	-0.016710		
	10	-12.20	-0.014583		
	20	-21.37	-0.025544		
	30	-17.47	-0.020882		
	40	-18.50	-0.022113		
	50	-21.86	-0.026130		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.00	-8.33	-0.009957	±2.5	Pass
	3.87	-7.59	-0.009072		
	4.45	-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		
3.87	-30	16.89	0.008984	Within authorized band for PCS 1900	Pass
	-20	9.85	0.005239		
	-10	10.17	0.005410		
	0	10.40	0.005532		
	10	16.24	0.008638		
	20	14.53	0.007729		
	30	2.55	0.001356		
	40	10.98	0.005840		
	50	20.99	0.011165		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.00	12.69	0.006750	Within authorized band for PCS 1900	Pass
	3.87	1.61	0.000856		
	4.45	9.46	0.005032		
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	-13.69	-0.007282	Within authorized band for PCS 1900	Pass
	-20	-5.55	-0.002952		
	-10	-12.04	-0.006404		
	0	-5.39	-0.002867		
	10	-6.94	-0.003691		
	20	-15.85	-0.008431		
	30	-14.56	-0.007745		
	40	-16.92	-0.009000		
	50	-13.62	-0.007245		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.00	-11.91	-0.006335	Within authorized band for PCS 1900	Pass
	3.87	-10.56	-0.005617		
	4.45	-16.79	-0.008931		
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

