

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	32.65	30.2	38.45	PASS
GSM850	190	5	32.77	30.32	38.45	PASS
GSM850	251	5	32.72	30.27	38.45	PASS
GSM1900	512	0	30.76	31.26	33.00	PASS
GSM1900	661	0	30.93	31.43	33.00	PASS
GSM1900	810	0	30.30	30.8	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	5	1	32.62	30.17	38.45	PASS
GPRS850	128	5	2	32.02	29.57	38.45	PASS
GPRS850	128	5	3	30.42	27.97	38.45	PASS
GPRS850	128	5	4	29.30	26.85	38.45	PASS
GPRS850	190	5	1	32.74	30.29	38.45	PASS
GPRS850	190	5	2	32.13	29.68	38.45	PASS
GPRS850	190	5	3	30.53	28.08	38.45	PASS
GPRS850	190	5	4	29.44	26.99	38.45	PASS
GPRS850	251	5	1	32.69	30.24	38.45	PASS
GPRS850	251	5	2	32.09	29.64	38.45	PASS
GPRS850	251	5	3	30.51	28.06	38.45	PASS
GPRS850	251	5	4	29.44	26.99	38.45	PASS
GPRS1900	512	0	1	30.74	31.24	33.00	PASS
GPRS1900	512	0	2	30.00	30.5	33.00	PASS
GPRS1900	512	0	3	28.16	28.66	33.00	PASS
GPRS1900	512	0	4	26.95	27.45	33.00	PASS
GPRS1900	661	0	1	30.90	31.4	33.00	PASS
GPRS1900	661	0	2	30.20	30.7	33.00	PASS
GPRS1900	661	0	3	28.45	28.95	33.00	PASS
GPRS1900	661	0	4	27.30	27.8	33.00	PASS
GPRS1900	810	0	1	30.28	30.78	33.00	PASS
GPRS1900	810	0	2	29.60	30.1	33.00	PASS
GPRS1900	810	0	3	27.92	28.42	33.00	PASS
GPRS1900	810	0	4	26.82	27.32	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
EGPRS850	128	8	1	27.94	25.49	38.45	PASS
EGPRS850	128	8	2	26.75	24.3	38.45	PASS
EGPRS850	128	8	3	24.49	22.04	38.45	PASS
EGPRS850	128	8	4	23.21	20.76	38.45	PASS
EGPRS850	190	8	1	27.84	25.39	38.45	PASS
EGPRS850	190	8	2	26.66	24.21	38.45	PASS
EGPRS850	190	8	3	24.45	22	38.45	PASS
EGPRS850	190	8	4	23.23	20.78	38.45	PASS
EGPRS850	251	8	1	27.97	25.52	38.45	PASS
EGPRS850	251	8	2	26.81	24.36	38.45	PASS
EGPRS850	251	8	3	24.56	22.11	38.45	PASS
EGPRS850	251	8	4	23.38	20.93	38.45	PASS
EGPRS1900	512	2	1	27.79	28.29	33.00	PASS
EGPRS1900	512	2	2	26.73	27.23	33.00	PASS
EGPRS1900	512	2	3	24.55	25.05	33.00	PASS
EGPRS1900	512	2	4	23.30	23.8	33.00	PASS
EGPRS1900	661	2	1	27.62	28.12	33.00	PASS
EGPRS1900	661	2	2	26.47	26.97	33.00	PASS
EGPRS1900	661	2	3	24.30	24.8	33.00	PASS
EGPRS1900	661	2	4	23.00	23.5	33.00	PASS
EGPRS1900	810	2	1	26.72	27.22	33.00	PASS
EGPRS1900	810	2	2	25.56	26.06	33.00	PASS
EGPRS1900	810	2	3	23.40	23.9	33.00	PASS
EGPRS1900	810	2	4	21.92	22.42	33.00	PASS

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

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

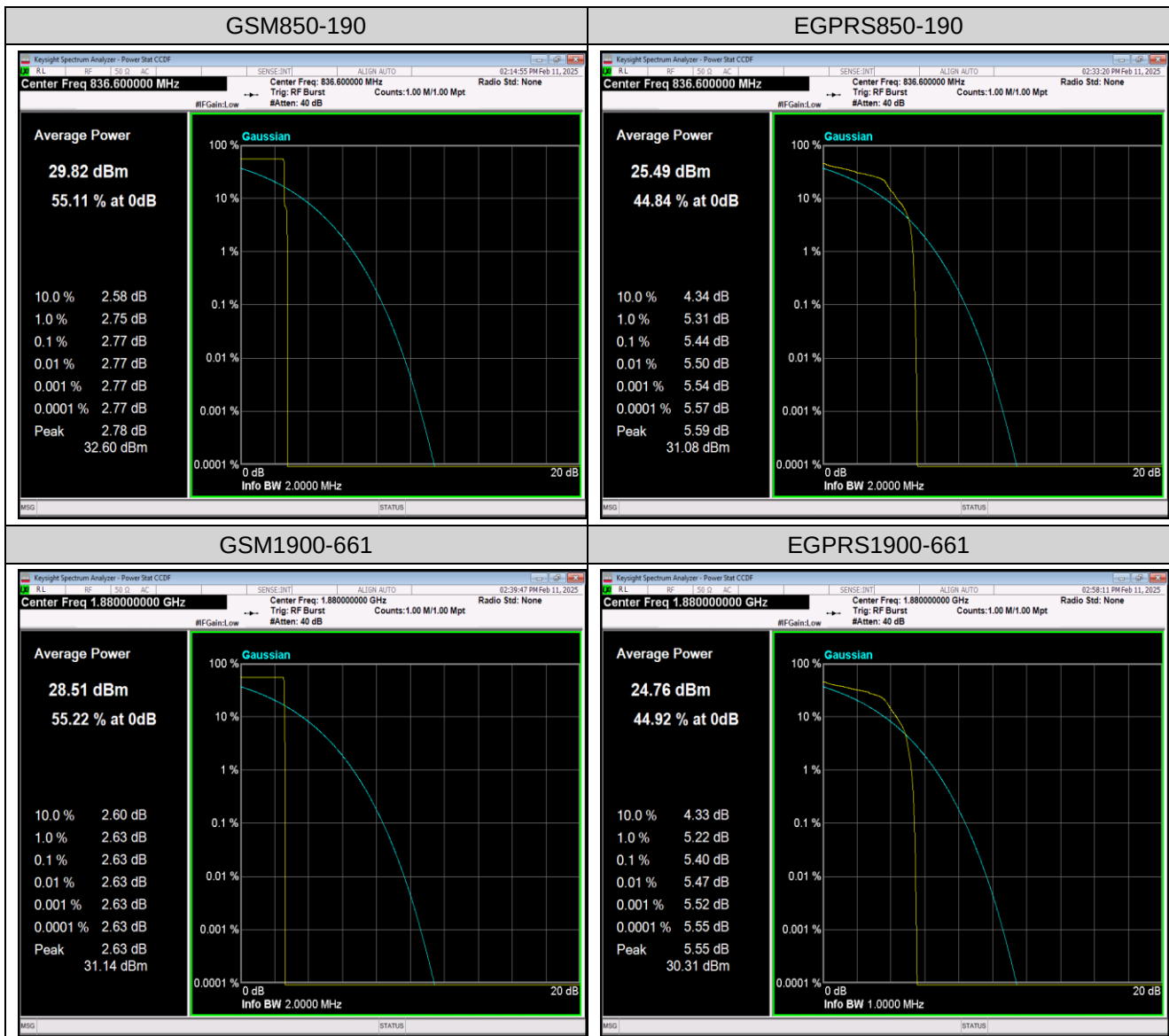
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	PCL	Result(dB)	Limit(dB)	Verdict
GSM850	190	5	2.77	13	PASS
EGPRS850	190	8	5.44	13	PASS
GSM1900	661	0	2.63	13	PASS
EGPRS1900	661	2	5.4	13	PASS

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

Test Graphs

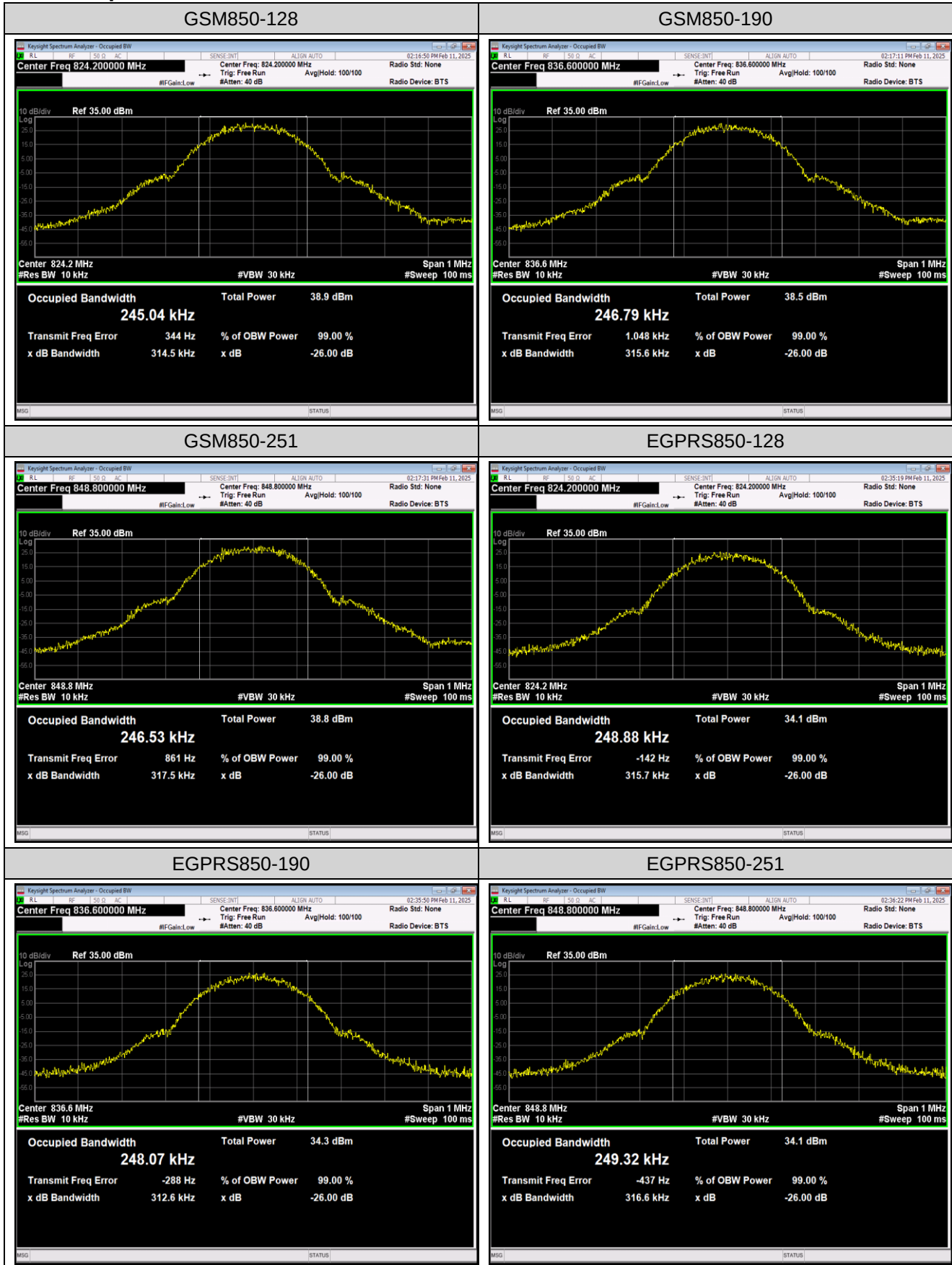


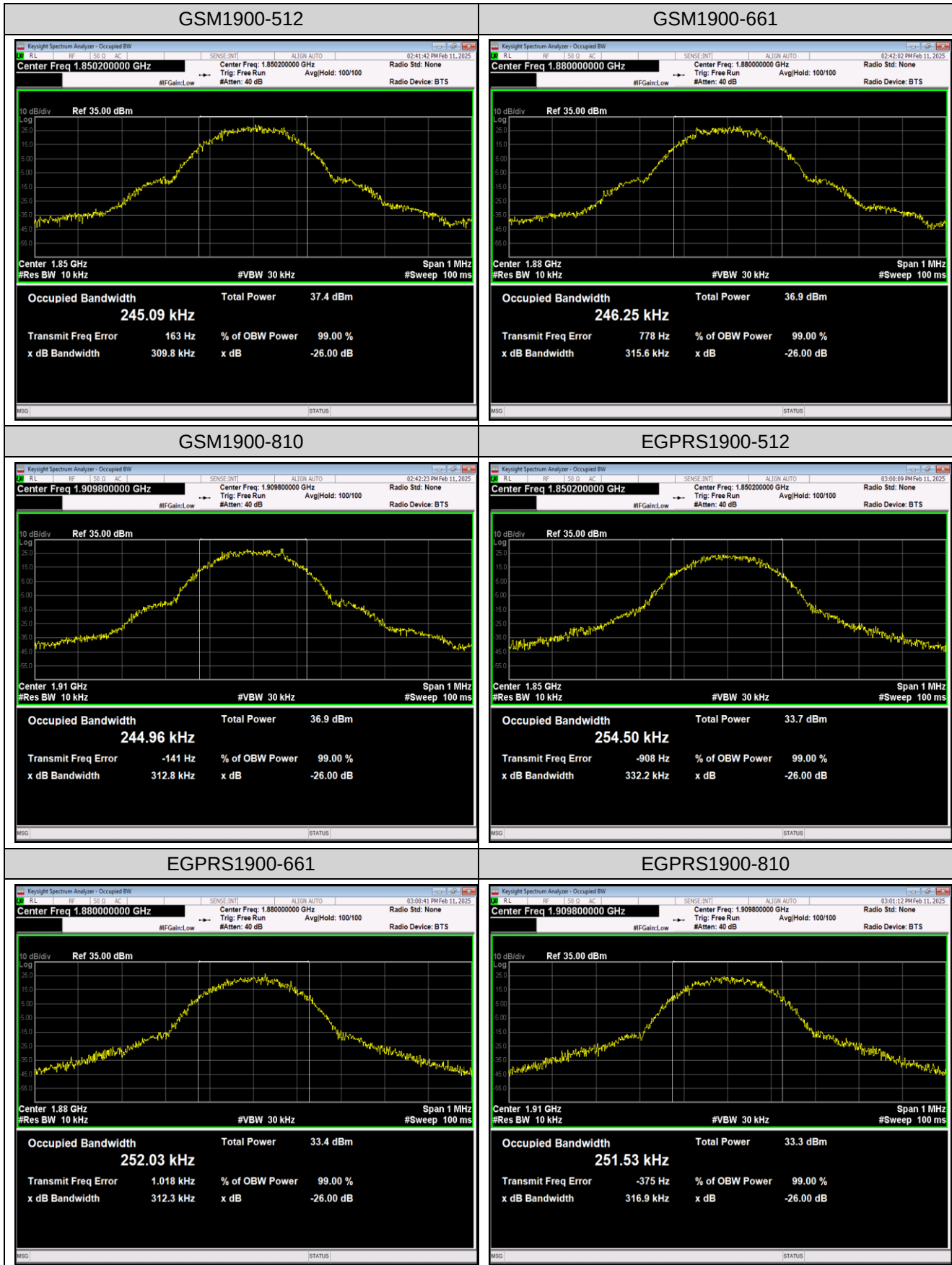
Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	5	0.24504	0.3145	---	PASS
GSM850	190	5	0.24679	0.3156	---	PASS
GSM850	251	5	0.24653	0.3175	---	PASS
EGPRS850	128	8	0.24888	0.3157	---	PASS
EGPRS850	190	8	0.24807	0.3126	---	PASS
EGPRS850	251	8	0.24932	0.3166	---	PASS
GSM1900	512	0	0.24509	0.3098	---	PASS
GSM1900	661	0	0.24625	0.3156	---	PASS
GSM1900	810	0	0.24496	0.3128	---	PASS
EGPRS1900	512	2	0.25450	0.3322	---	PASS
EGPRS1900	661	2	0.25203	0.3123	---	PASS
EGPRS1900	810	2	0.25153	0.3169	---	PASS

Test Graphs



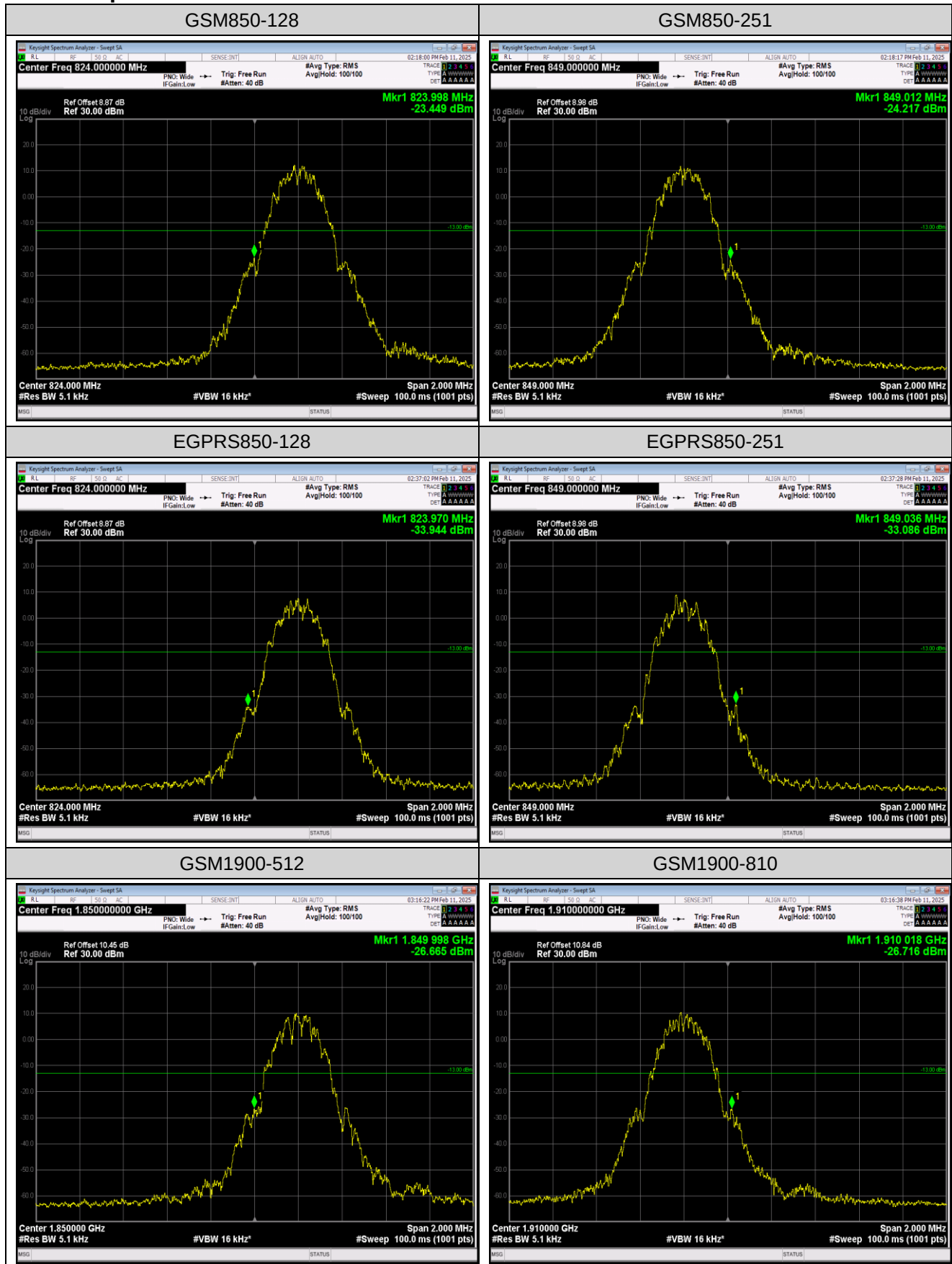


Appendix D: Band Edge

Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	5	824.00	-23.45	-13	PASS
GSM850	251	5	849.01	-24.22	-13	PASS
EGPRS850	128	8	823.97	-33.94	-13	PASS
EGPRS850	251	8	849.04	-33.09	-13	PASS
GSM1900	512	0	1850.00	-26.67	-13	PASS
GSM1900	810	0	1910.02	-26.72	-13	PASS
EGPRS1900	512	2	1849.96	-21.06	-13	PASS
EGPRS1900	810	2	1910.01	-18.04	-13	PASS

Test Graphs

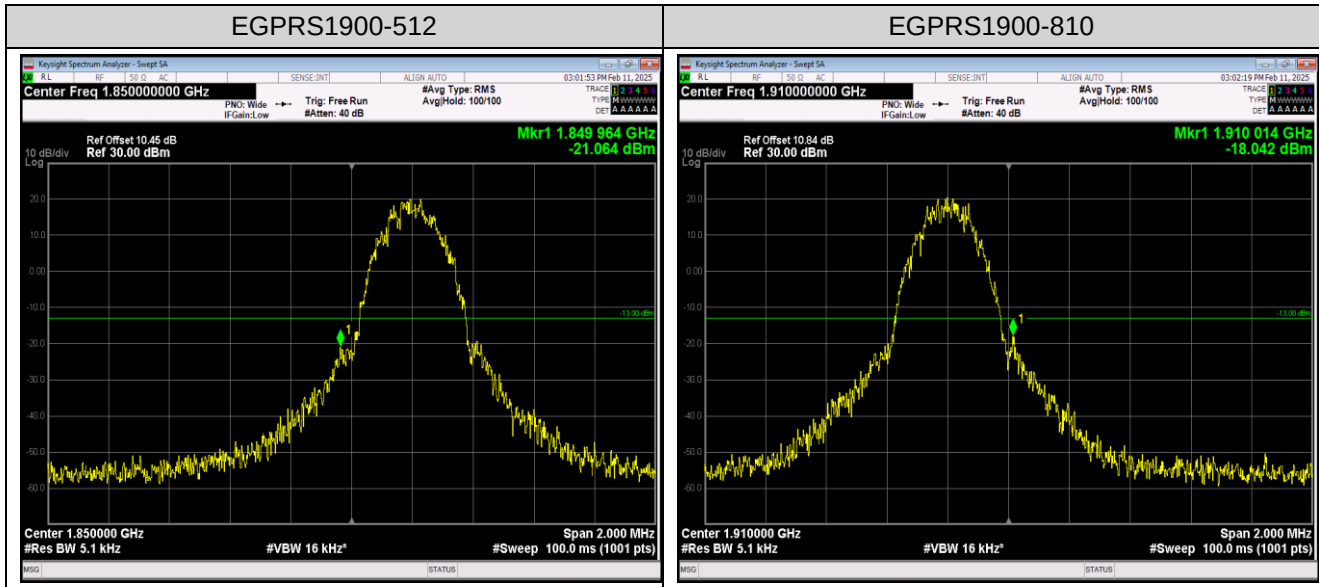


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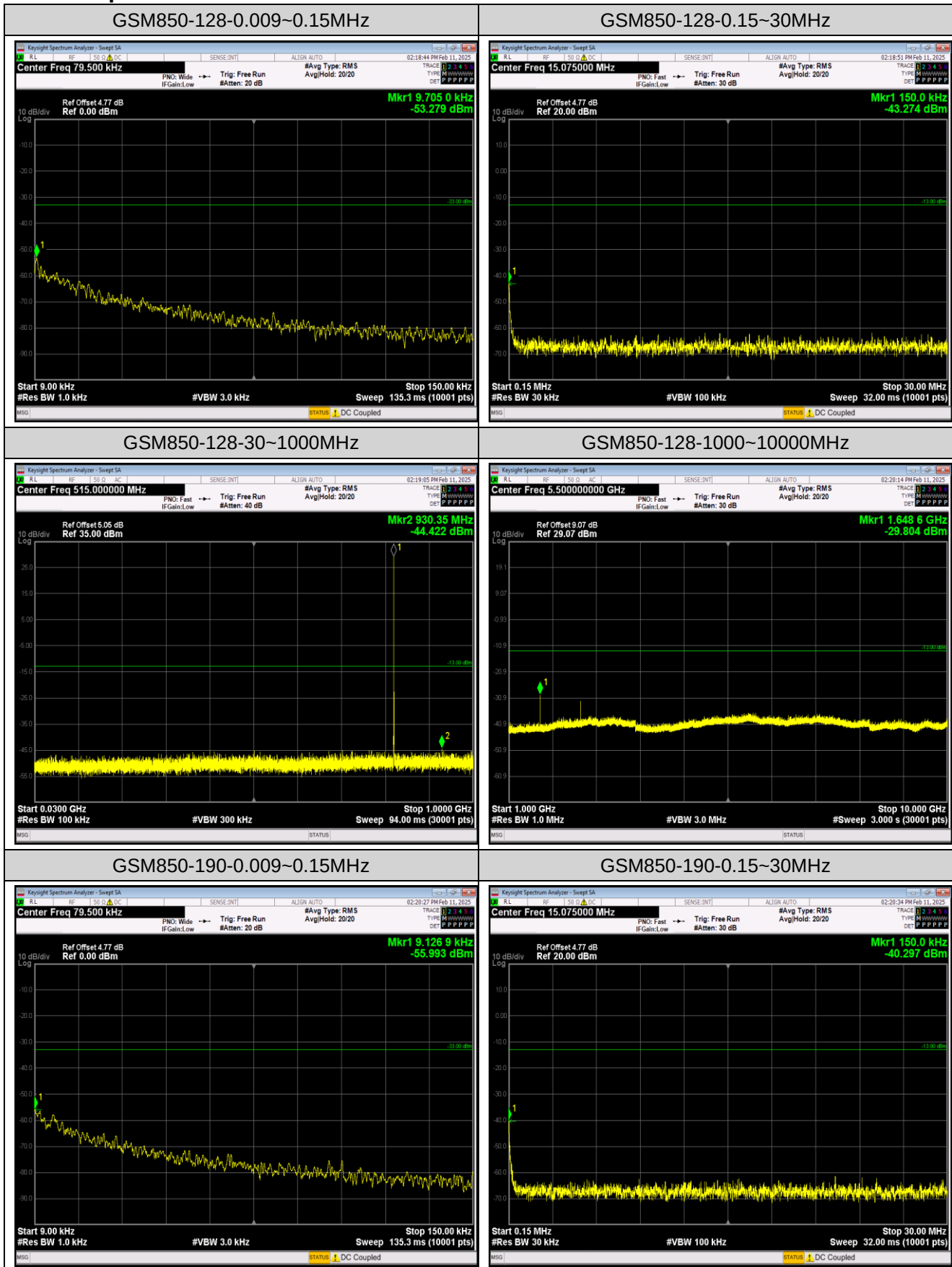
Appendix E: Conducted Spurious Emission

Test Result

Band	Channel	PCL	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	5	0.009~0.15MHz	0.01	-53.28	-33	PASS
GSM850	128	5	0.15~30MHz	0.15	-43.27	-13	PASS
GSM850	128	5	30~1000MHz	930.35	-44.42	-13	PASS
GSM850	128	5	1000~10000MHz	1648.6	-29.8	-13	PASS
GSM850	190	5	0.009~0.15MHz	0.01	-55.99	-33	PASS
GSM850	190	5	0.15~30MHz	0.15	-40.3	-13	PASS
GSM850	190	5	30~1000MHz	377.16	-44.73	-13	PASS
GSM850	190	5	1000~10000MHz	1673.2	-31.29	-13	PASS
GSM850	251	5	0.009~0.15MHz	0.01	-54.47	-33	PASS
GSM850	251	5	0.15~30MHz	0.15	-42.6	-13	PASS
GSM850	251	5	30~1000MHz	609.61	-44.63	-13	PASS
GSM850	251	5	1000~10000MHz	1697.5	-32.49	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-56.11	-43	PASS
GSM1900	512	0	0.15~30MHz	0.15	-42.15	-23	PASS
GSM1900	512	0	30~1000MHz	889.26	-45.37	-13	PASS
GSM1900	512	0	1000~18000MHz	16227.47	-22.45	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-55.35	-43	PASS
GSM1900	661	0	0.15~30MHz	0.16	-42.29	-23	PASS
GSM1900	661	0	30~1000MHz	928.8	-45.99	-13	PASS
GSM1900	661	0	1000~18000MHz	16388.97	-22.33	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-54.35	-43	PASS
GSM1900	810	0	0.15~30MHz	0.15	-41.79	-23	PASS
GSM1900	810	0	30~1000MHz	964.5	-44.54	-13	PASS
GSM1900	810	0	1000~18000MHz	15813.8	-22.26	-13	PASS

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

Test Graphs

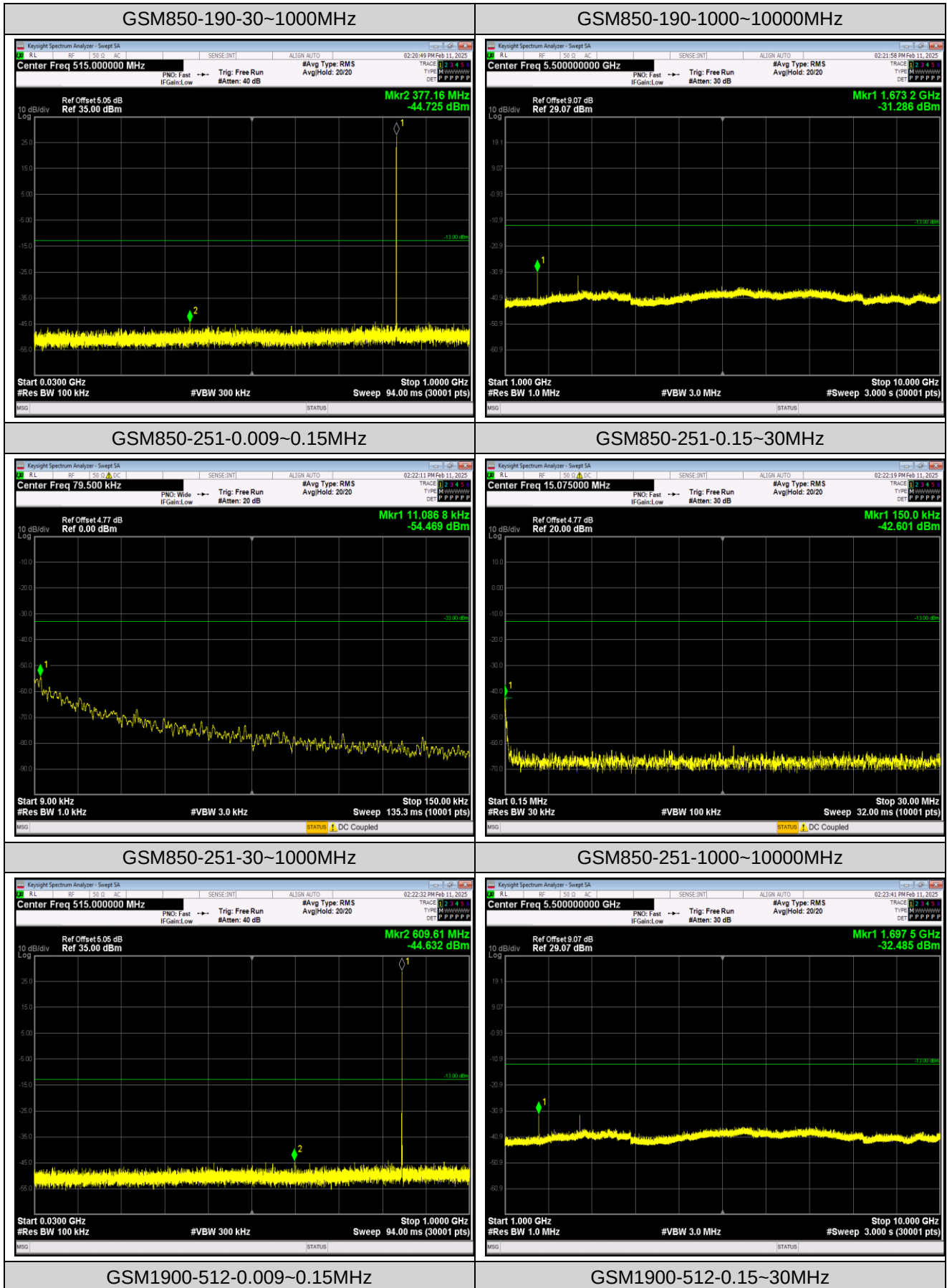


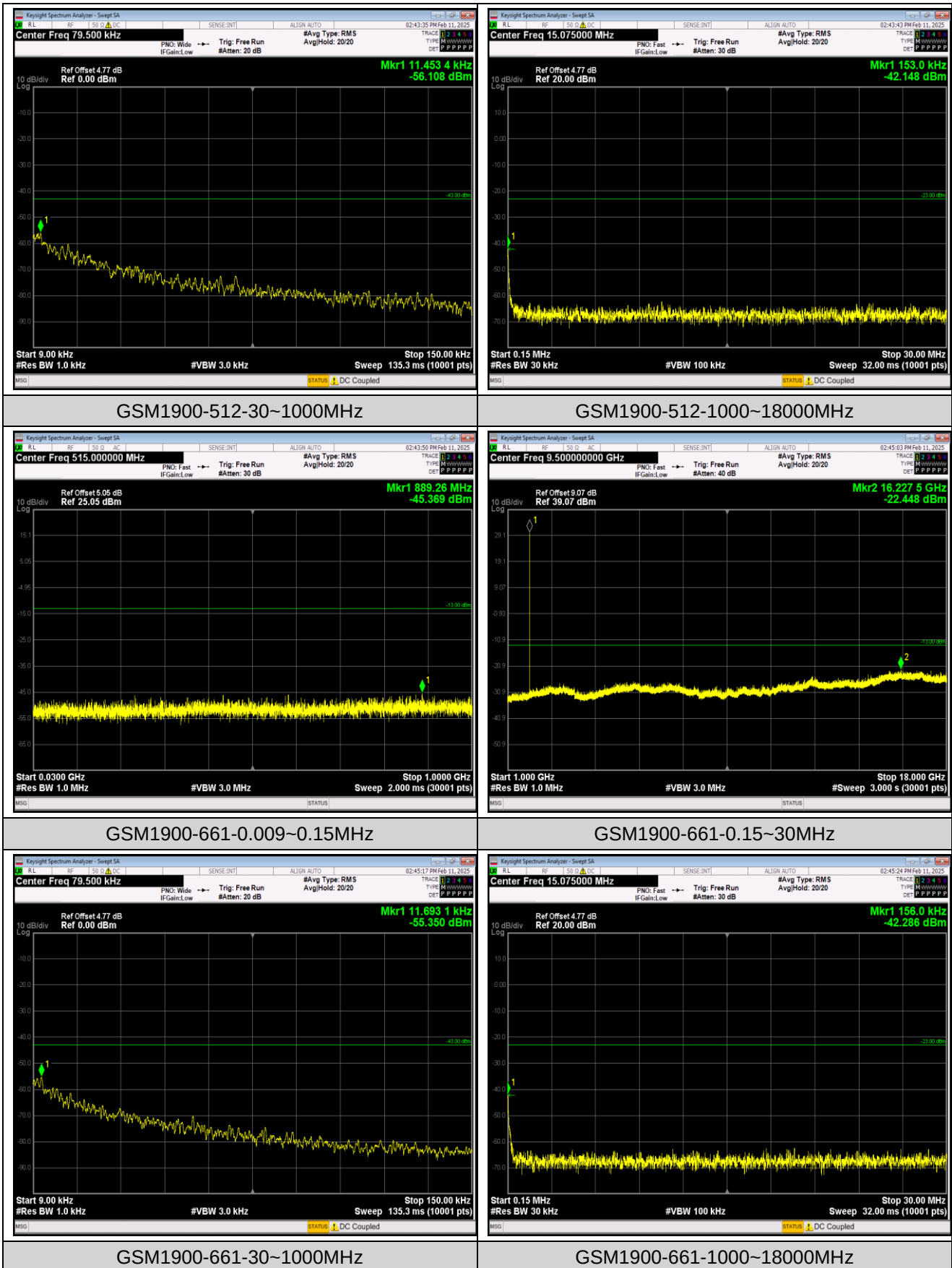
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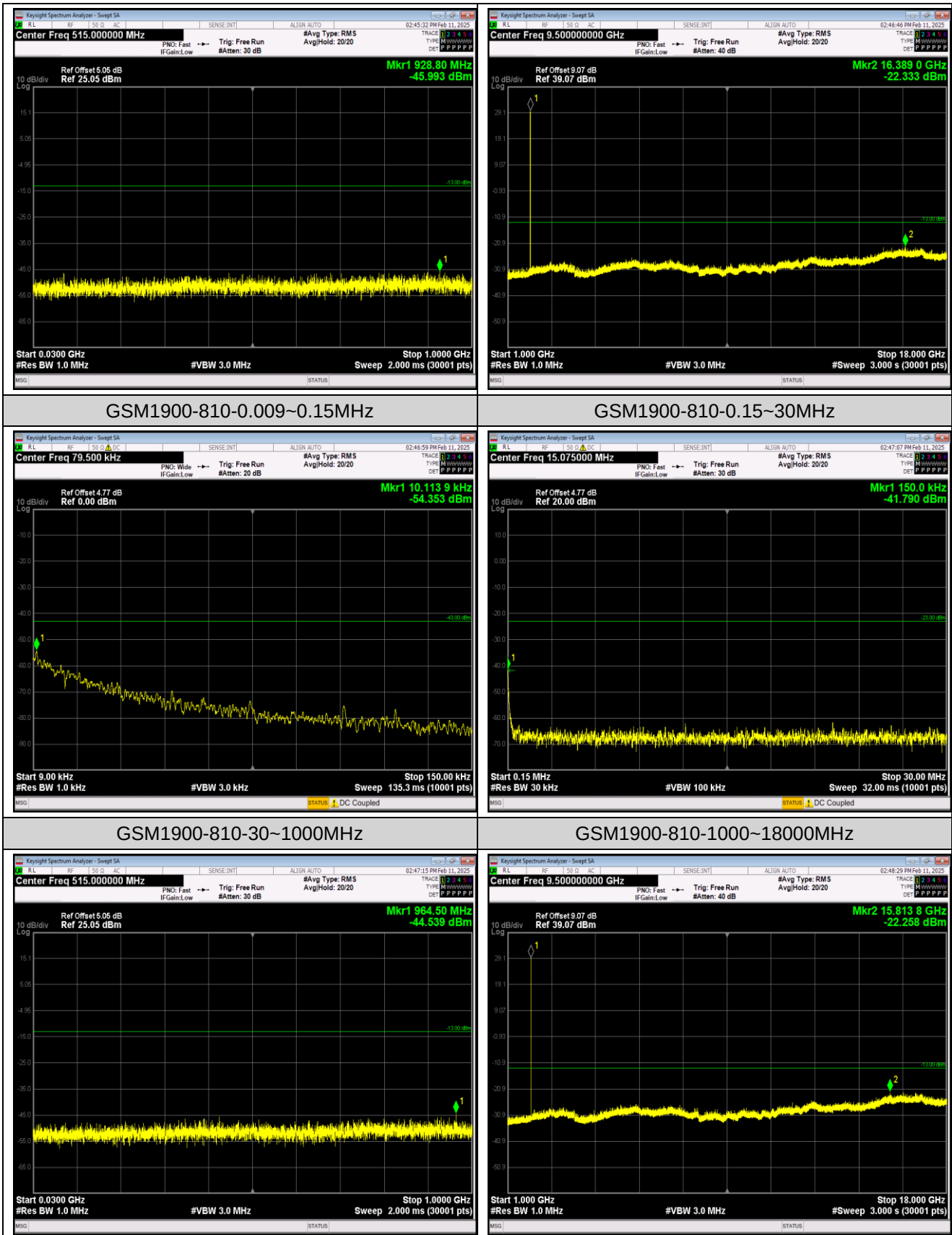
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Appendix F: Frequency Stability

Test Result

Reference Frequency: GSM850 Middle channel=190 Frequency=836.6MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	-5.07	-0.006060	±2.5	Pass
	-20	-2.45	-0.002929		
	-10	-2.81	-0.003359		
	0	-3.20	-0.003825		
	10	-1.36	-0.001626		
	20	1.07	0.001279		
	30	-2.55	-0.003048		
	40	-1.16	-0.001387		
	50	-2.52	-0.003012		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	-3.33	-0.003980	±2.5	Pass
	3.80	-1.87	-0.002235		
	4.35	-1.61	-0.001924		
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		
3.80	-30	0.48	0.000574	±2.5	Pass
	-20	0.81	0.000968		
	-10	1.36	0.001626		
	0	2.13	0.002546		
	10	9.75	0.011654		
	20	13.82	0.016519		
	30	10.65	0.012730		
	40	10.14	0.012120		
	50	8.98	0.010734		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	-0.74	-0.000885	±2.5	Pass
	3.80	0.74	0.000885		
	4.35	3.87	0.004626		
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		
3.80	-30	6.72	0.003574	Within authorized band for PCS 1900	Pass
	-20	1.45	0.000771		
	-10	-0.68	-0.000362		
	0	0.06	0.000032		
	10	-0.32	-0.000170		
	20	2.16	0.001149		
	30	-4.55	-0.002420		
	40	3.68	0.001957		
	50	-0.90	-0.000479		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	-0.06	-0.000032	Within authorized band for PCS 1900	Pass
	3.80	6.17	0.003282		
	4.35	4.81	0.002559		
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		
3.80	-30	6.91	0.003676	Within authorized band for PCS 1900	Pass
	-20	9.07	0.004824		
	-10	3.00	0.001596		
	0	7.91	0.004207		
	10	-1.81	-0.000963		
	20	-7.72	-0.004106		
	30	0.52	0.000277		
	40	-9.01	-0.004793		
	50	-8.39	-0.004463		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	8.43	0.004484	Within authorized band for PCS 1900	Pass
	3.80	6.97	0.003707		
	4.35	6.72	0.003574		
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

