

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	32.84	31.19	38.45	PASS
GSM850	190	5	32.93	31.28	38.45	PASS
GSM850	251	5	32.95	31.3	38.45	PASS
GSM1900	512	0	29.95	30.45	33.00	PASS
GSM1900	661	0	30.02	30.52	33.00	PASS
GSM1900	810	0	30.15	30.65	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	5	1	32.82	31.17	38.45	PASS
GPRS850	128	5	2	32.61	30.96	38.45	PASS
GPRS850	128	5	3	31.70	30.05	38.45	PASS
GPRS850	128	5	4	29.62	27.97	38.45	PASS
GPRS850	190	5	1	32.93	31.28	38.45	PASS
GPRS850	190	5	2	32.70	31.05	38.45	PASS
GPRS850	190	5	3	31.77	30.12	38.45	PASS
GPRS850	190	5	4	29.71	28.06	38.45	PASS
GPRS850	251	5	1	32.95	31.3	38.45	PASS
GPRS850	251	5	2	32.74	31.09	38.45	PASS
GPRS850	251	5	3	31.83	30.18	38.45	PASS
GPRS850	251	5	4	29.72	28.07	38.45	PASS
GPRS1900	512	0	1	29.99	30.49	33.00	PASS
GPRS1900	512	0	2	29.73	30.23	33.00	PASS
GPRS1900	512	0	3	28.80	29.3	33.00	PASS
GPRS1900	512	0	4	26.80	27.3	33.00	PASS
GPRS1900	661	0	1	30.02	30.52	33.00	PASS
GPRS1900	661	0	2	29.77	30.27	33.00	PASS
GPRS1900	661	0	3	28.84	29.34	33.00	PASS
GPRS1900	661	0	4	26.77	27.27	33.00	PASS
GPRS1900	810	0	1	30.15	30.65	33.00	PASS
GPRS1900	810	0	2	29.89	30.39	33.00	PASS
GPRS1900	810	0	3	28.94	29.44	33.00	PASS
GPRS1900	810	0	4	26.87	27.37	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
EGPRS850	128	8	1	27.98	26.33	38.45	PASS
EGPRS850	128	8	2	26.31	24.66	38.45	PASS
EGPRS850	128	8	3	23.60	21.95	38.45	PASS
EGPRS850	128	8	4	21.38	19.73	38.45	PASS
EGPRS850	190	8	1	27.55	25.9	38.45	PASS
EGPRS850	190	8	2	26.00	24.35	38.45	PASS
EGPRS850	190	8	3	23.24	21.59	38.45	PASS
EGPRS850	190	8	4	21.13	19.48	38.45	PASS
EGPRS850	251	8	1	27.21	25.56	38.45	PASS
EGPRS850	251	8	2	25.67	24.02	38.45	PASS
EGPRS850	251	8	3	22.94	21.29	38.45	PASS
EGPRS850	251	8	4	20.94	19.29	38.45	PASS
EGPRS1900	512	2	1	27.82	28.32	33.00	PASS
EGPRS1900	512	2	2	26.14	26.64	33.00	PASS
EGPRS1900	512	2	3	23.74	24.24	33.00	PASS
EGPRS1900	512	2	4	21.25	21.75	33.00	PASS
EGPRS1900	661	2	1	27.62	28.12	33.00	PASS
EGPRS1900	661	2	2	25.90	26.4	33.00	PASS
EGPRS1900	661	2	3	23.49	23.99	33.00	PASS
EGPRS1900	661	2	4	21.05	21.55	33.00	PASS
EGPRS1900	810	2	1	28.17	28.67	33.00	PASS
EGPRS1900	810	2	2	26.50	27	33.00	PASS
EGPRS1900	810	2	3	24.32	24.82	33.00	PASS
EGPRS1900	810	2	4	21.90	22.4	33.00	PASS

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

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

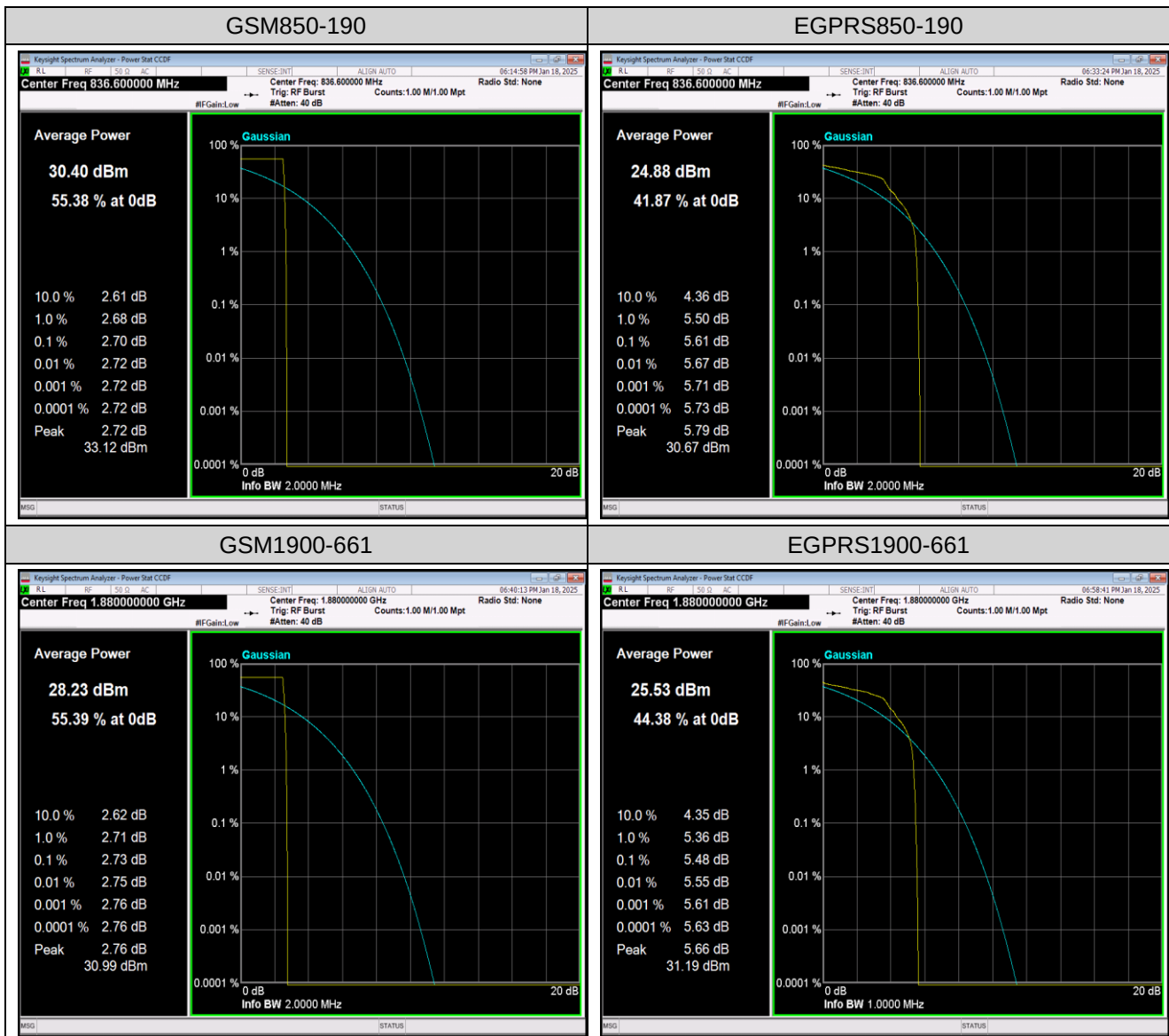
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	PCL	Result(dB)	Limit(dB)	Verdict
GSM850	190	5	2.7	13	PASS
EGPRS850	190	8	5.61	13	PASS
GSM1900	661	0	2.73	13	PASS
EGPRS1900	661	2	5.48	13	PASS

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

Test Graphs

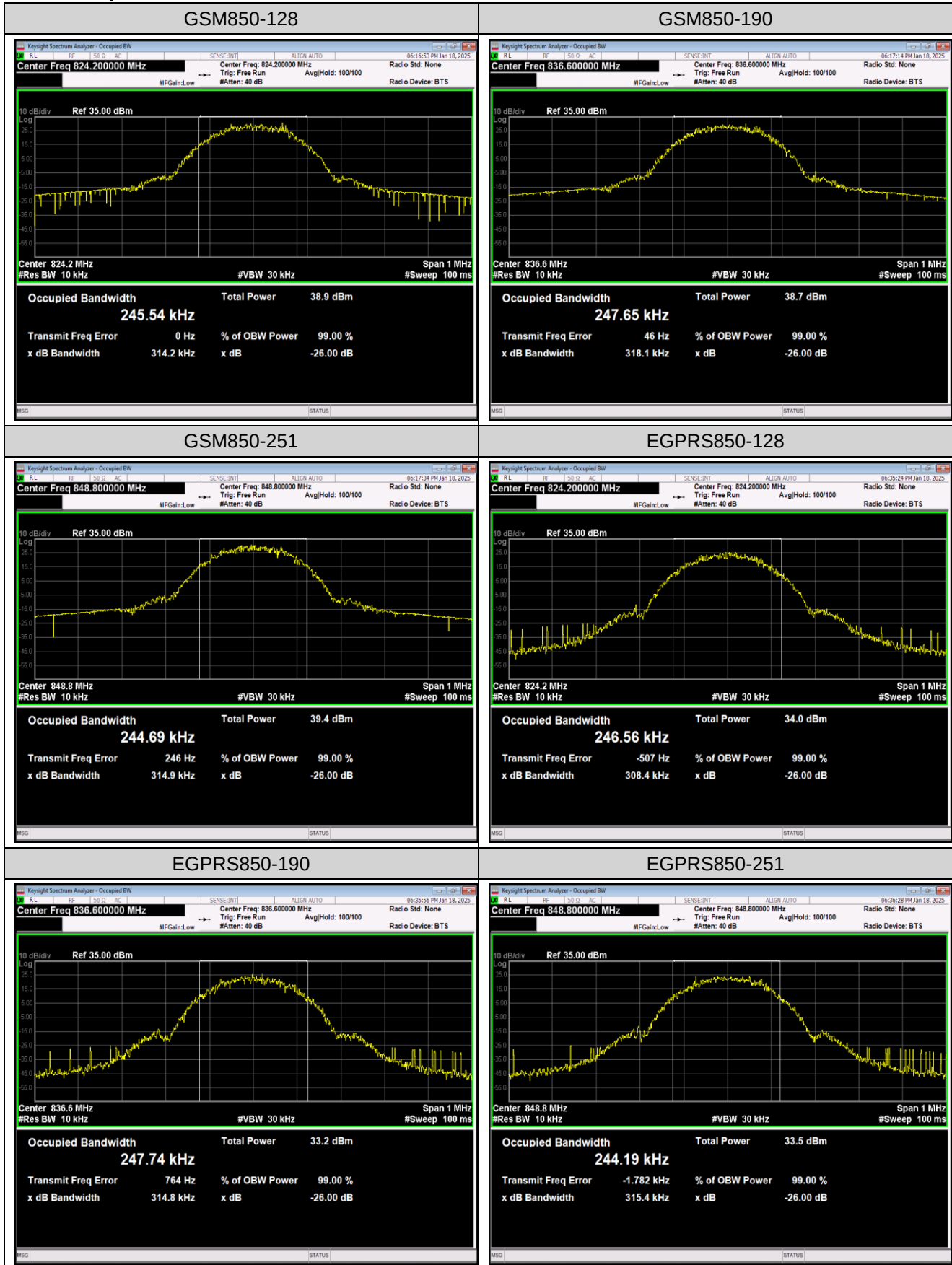


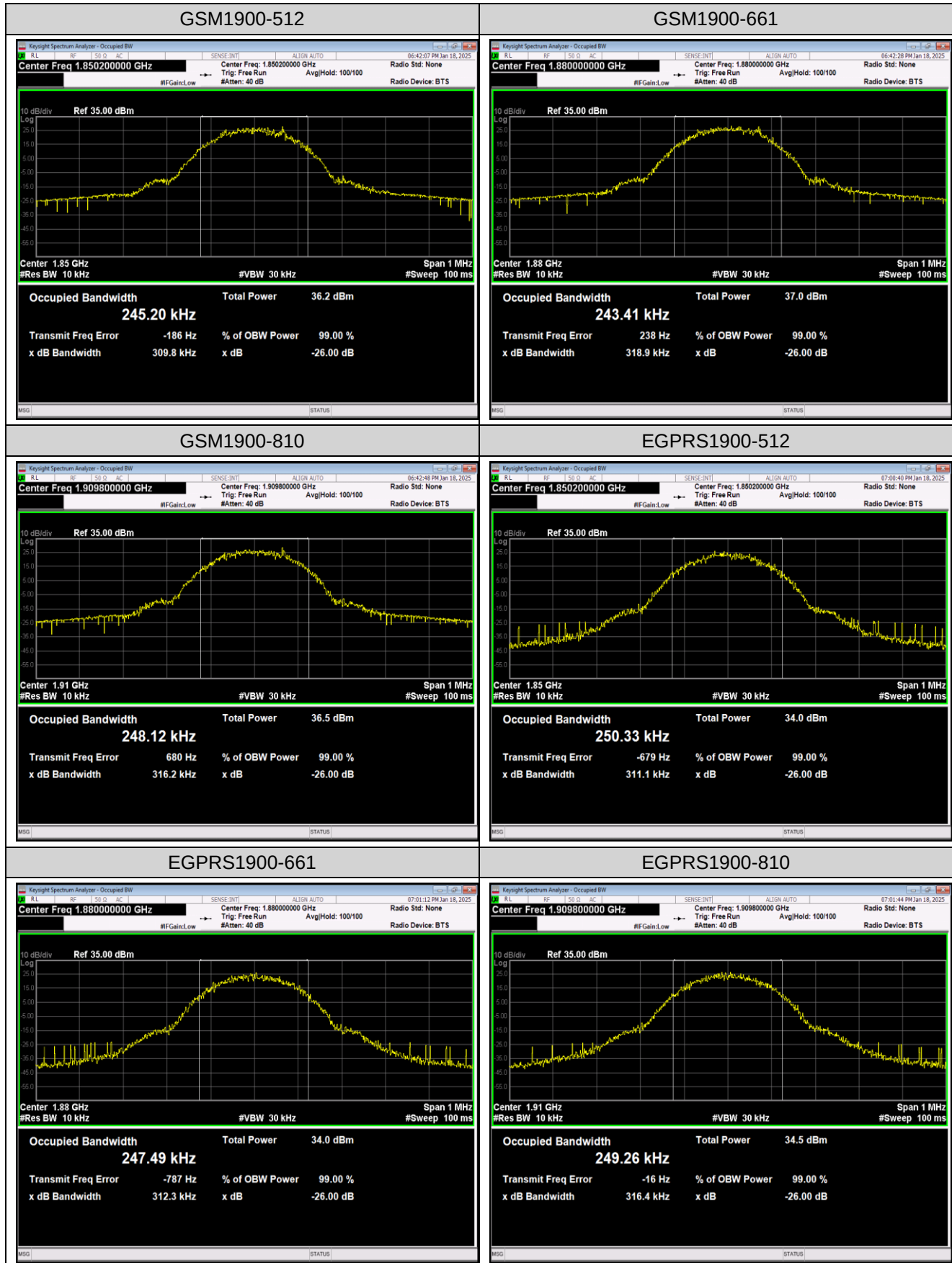
Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	5	0.24554	0.3142	---	PASS
GSM850	190	5	0.24765	0.3181	---	PASS
GSM850	251	5	0.24469	0.3149	---	PASS
EGPRS850	128	8	0.24656	0.3084	---	PASS
EGPRS850	190	8	0.24774	0.3148	---	PASS
EGPRS850	251	8	0.24419	0.3154	---	PASS
GSM1900	512	0	0.24520	0.3098	---	PASS
GSM1900	661	0	0.24341	0.3189	---	PASS
GSM1900	810	0	0.24812	0.3162	---	PASS
EGPRS1900	512	2	0.25033	0.3111	---	PASS
EGPRS1900	661	2	0.24749	0.3123	---	PASS
EGPRS1900	810	2	0.24926	0.3164	---	PASS

Test Graphs



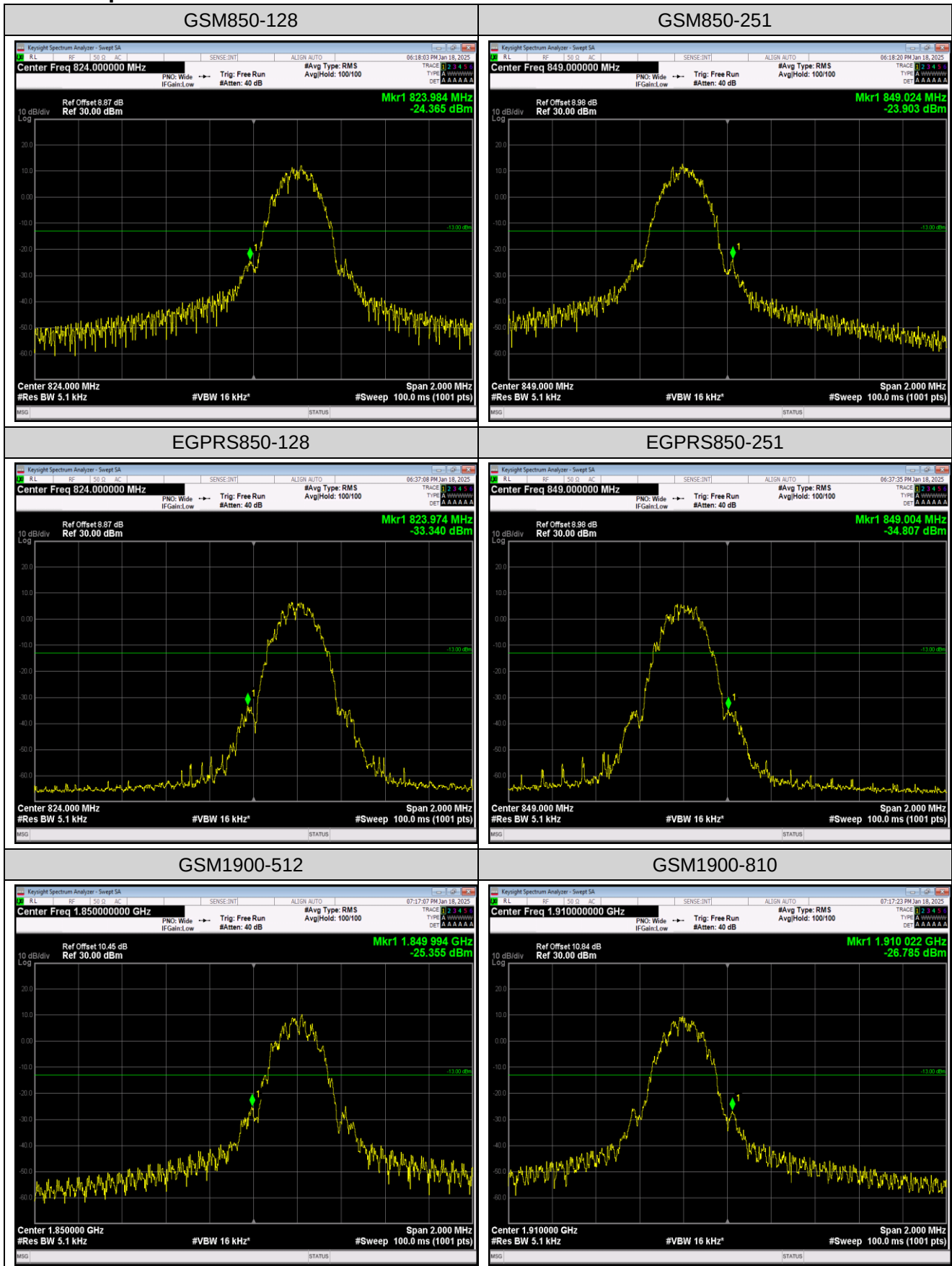


Appendix D: Band Edge

Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	5	823.98	-24.36	-13	PASS
GSM850	251	5	849.02	-23.90	-13	PASS
EGPRS850	128	8	823.97	-33.34	-13	PASS
EGPRS850	251	8	849.00	-34.81	-13	PASS
GSM1900	512	0	1849.99	-25.35	-13	PASS
GSM1900	810	0	1910.02	-26.78	-13	PASS
EGPRS1900	512	2	1849.98	-18.65	-13	PASS
EGPRS1900	810	2	1910.00	-17.36	-13	PASS

Test Graphs

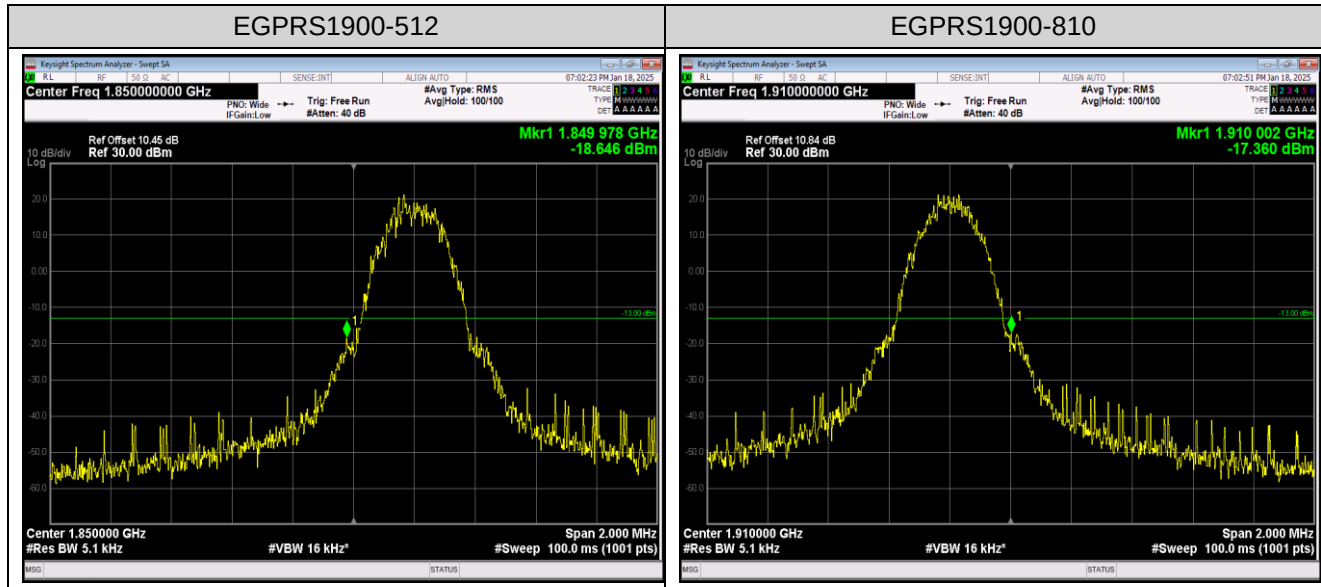


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Project No.: JYTSZR2501017



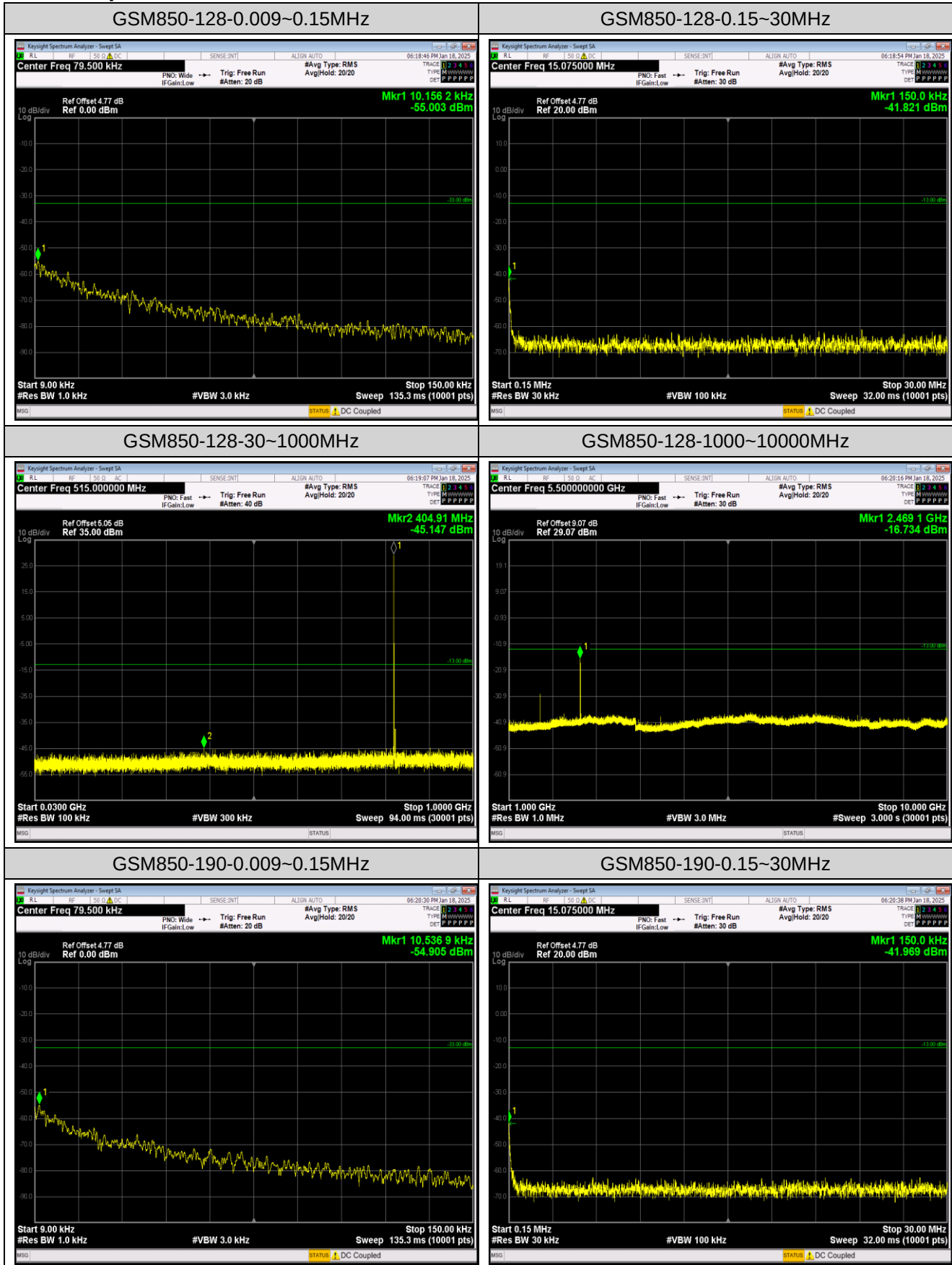
Appendix E: Conducted Spurious Emission

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	-33	PASS
GSM850	128	5	0.15~30MHz	0.15	-41.82	-13	PASS
GSM850	128	5	30~1000MHz	404.91	-45.15	-13	PASS
GSM850	128	5	1000~10000MHz	2469.1	-16.73	-13	PASS
GSM850	190	5	0.009~0.15MHz	0.01	-54.91	-33	PASS
GSM850	190	5	0.15~30MHz	0.15	-41.97	-13	PASS
GSM850	190	5	30~1000MHz	945.42	-45.17	-13	PASS
GSM850	190	5	1000~10000MHz	2506.9	-15.17	-13	PASS
GSM850	251	5	0.009~0.15MHz	0.01	-53.84	-33	PASS
GSM850	251	5	0.15~30MHz	0.15	-42.26	-13	PASS
GSM850	251	5	30~1000MHz	964.82	-43.62	-13	PASS
GSM850	251	5	1000~10000MHz	2545.9	-18.76	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-55.52	-43	PASS
GSM1900	512	0	0.15~30MHz	0.15	-42.89	-23	PASS
GSM1900	512	0	30~1000MHz	735.45	-44.63	-13	PASS
GSM1900	512	0	1000~18000MHz	16213.87	-21.78	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-53.84	-43	PASS
GSM1900	661	0	0.15~30MHz	0.15	-42.8	-23	PASS
GSM1900	661	0	30~1000MHz	952.76	-44.92	-13	PASS
GSM1900	661	0	1000~18000MHz	16990.2	-21.76	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-54.34	-43	PASS
GSM1900	810	0	0.15~30MHz	0.15	-44.25	-23	PASS
GSM1900	810	0	30~1000MHz	482.83	-45.37	-13	PASS
GSM1900	810	0	1000~18000MHz	16956.2	-22.05	-13	PASS

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

Test Graphs

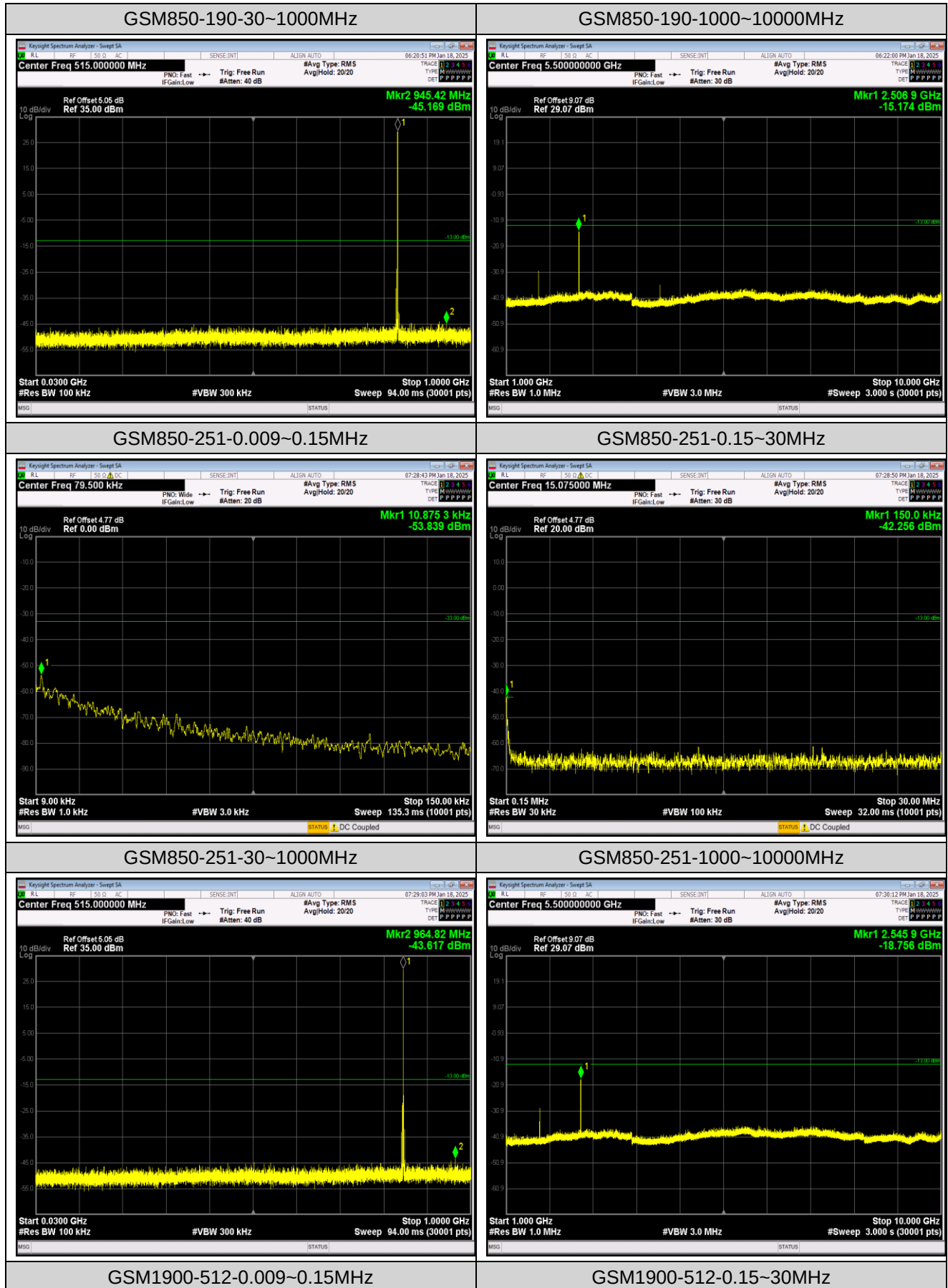


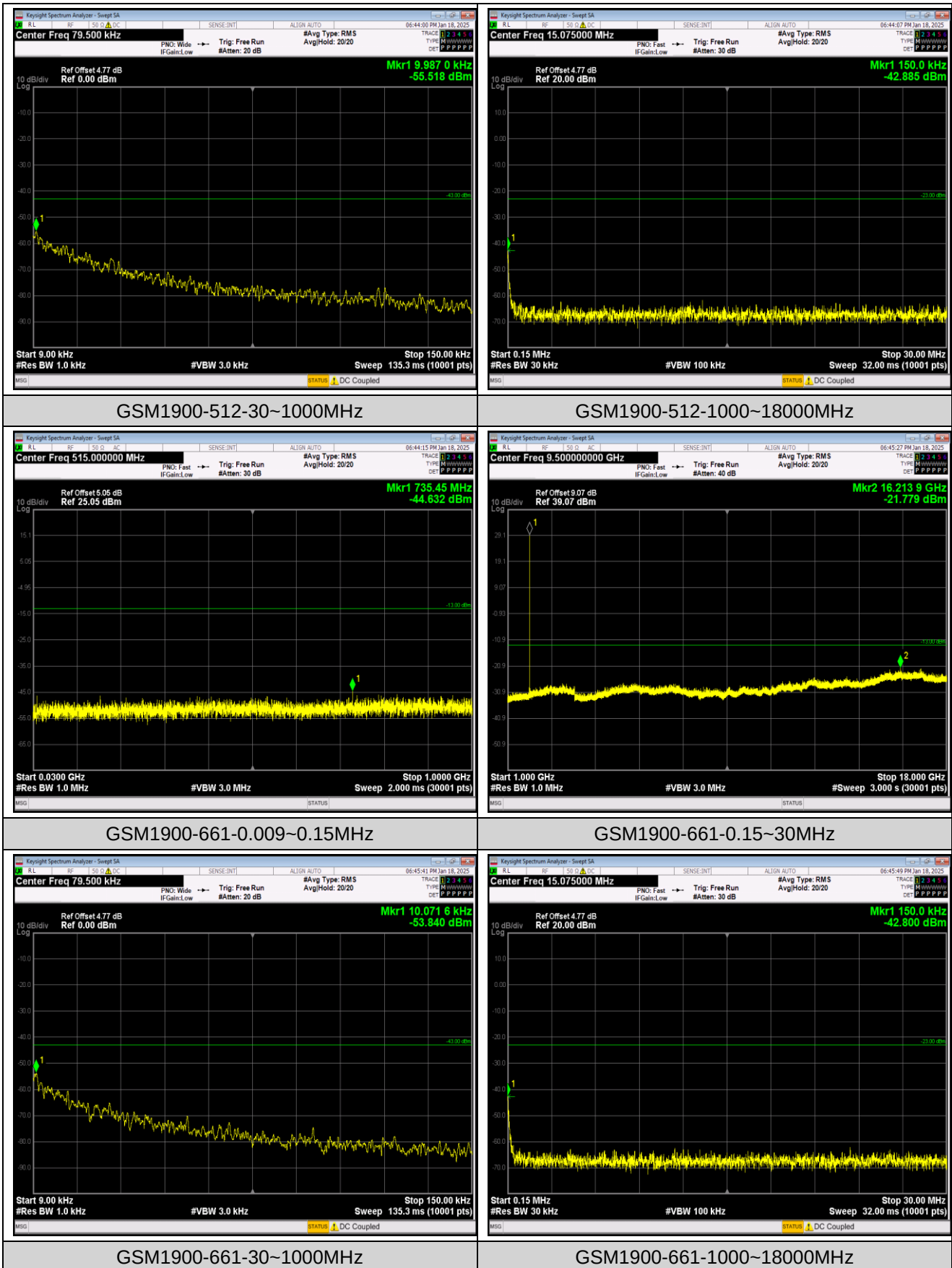
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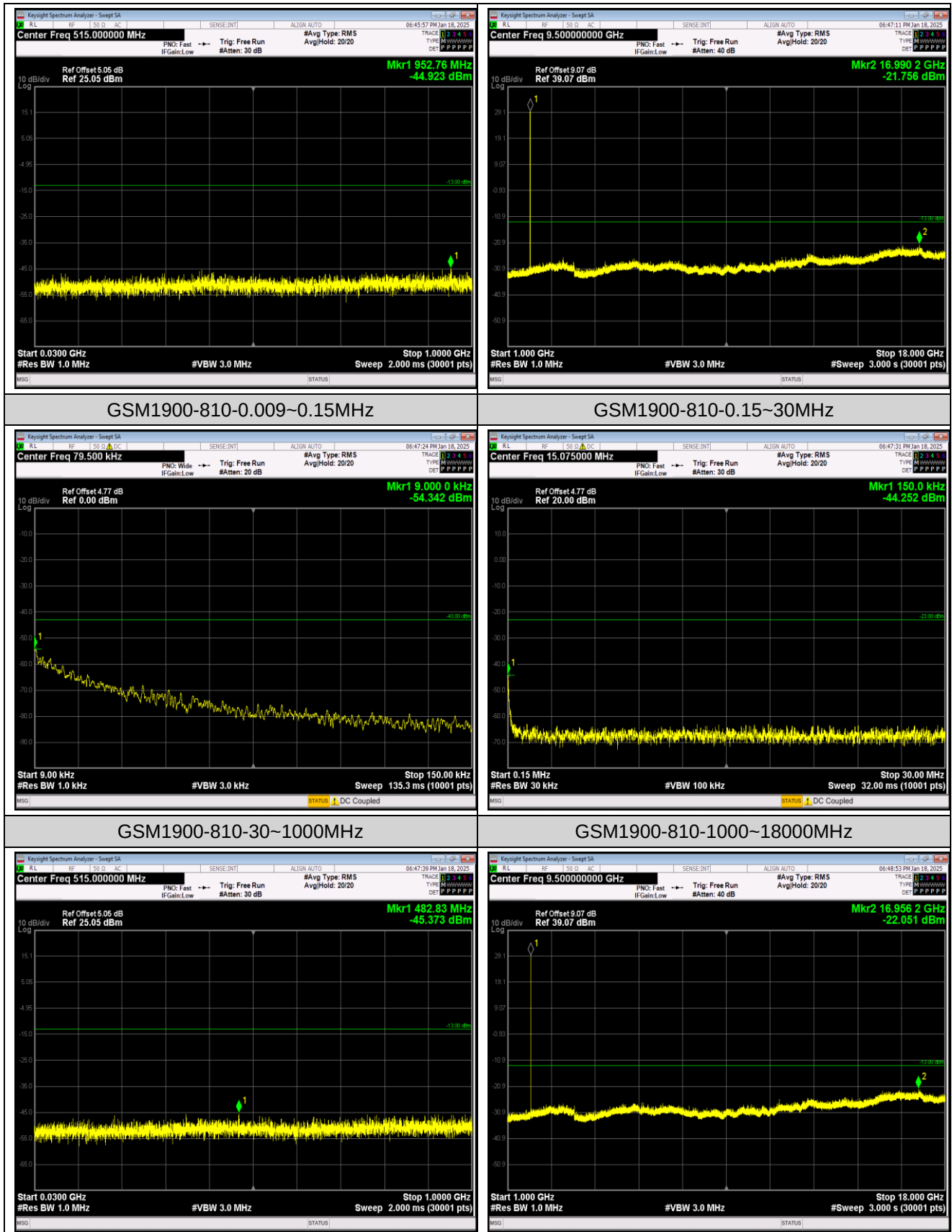
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Appendix F: Frequency Stability

Test Result

Reference Frequency: GSM850 Middle channel=190 Frequency=836.6MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	-6.04	-0.007220	±2.5	Pass
	-20	-8.20	-0.009802		
	-10	-5.55	-0.006634		
	0	-11.66	-0.013937		
	10	-15.34	-0.018336		
	20	0.65	0.000777		
	30	1.00	0.001195		
	40	-2.84	-0.003395		
	50	-3.49	-0.004172		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.40	-6.72	-0.008033	±2.5	Pass
	3.70	9.59	0.011463		
	4.20	12.27	0.014667		
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		
3.70	-30	-4.10	-0.004901	±2.5	Pass
	-20	6.30	0.007530		
	-10	8.23	0.009837		
	0	2.97	0.003550		
	10	9.78	0.011690		
	20	1.49	0.001781		
	30	0.39	0.000466		
	40	6.65	0.007949		
	50	2.52	0.003012		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.40	8.23	0.009837	±2.5	Pass
	3.70	-0.52	-0.000622		
	4.20	1.26	0.001506		
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		
3.70	-30	-9.17	-0.004878	Within authorized band for PCS 1900	Pass
	-20	4.46	0.002372		
	-10	13.66	0.007266		
	0	7.81	0.004154		
	10	3.55	0.001888		
	20	-10.33	-0.005495		
	30	-0.55	-0.000293		
	40	-2.42	-0.001287		
	50	-0.94	-0.000500		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.40	-10.49	-0.005580	Within authorized band for PCS 1900	Pass
	3.70	-21.86	-0.011628		
	4.20	5.62	0.002989		
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		
3.70	-30	-19.60	-0.010426	Within authorized band for PCS 1900	Pass
	-20	0.03	0.000016		
	-10	-21.02	-0.011181		
	0	-11.85	-0.006303		
	10	-4.46	-0.002372		
	20	-21.92	-0.011660		
	30	-13.17	-0.007005		
	40	-11.59	-0.006165		
	50	11.30	0.006011		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.40	-5.10	-0.002713	Within authorized band for PCS 1900	Pass
	3.70	4.97	0.002644		
	4.20	-19.69	-0.010473		
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

