

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	33.46	31.53	38.5	PASS
GSM850	190	5	33.42	31.49	38.5	PASS
GSM850	251	5	33.36	31.43	38.5	PASS
GSM1900	512	0	30.33	30.95	33	PASS
GSM1900	661	0	30.38	31.00	33	PASS
GSM1900	810	0	30.44	31.06	33	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	5	1	33.44	31.51	38.5	PASS
GPRS850	128	5	2	32.69	30.76	38.5	PASS
GPRS850	128	5	3	30.82	28.89	38.5	PASS
GPRS850	128	5	4	29.76	27.83	38.5	PASS
GPRS850	190	5	1	33.41	31.48	38.5	PASS
GPRS850	190	5	2	32.61	30.68	38.5	PASS
GPRS850	190	5	3	30.68	28.75	38.5	PASS
GPRS850	190	5	4	29.60	27.67	38.5	PASS
GPRS850	251	5	1	33.30	31.37	38.5	PASS
GPRS850	251	5	2	32.54	30.61	38.5	PASS
GPRS850	251	5	3	30.62	28.69	38.5	PASS
GPRS850	251	5	4	29.55	27.62	38.5	PASS
GPRS1900	512	0	1	30.30	30.92	33	PASS
GPRS1900	512	0	2	29.39	30.01	33	PASS
GPRS1900	512	0	3	27.32	27.94	33	PASS
GPRS1900	512	0	4	26.13	26.75	33	PASS
GPRS1900	661	0	1	30.32	30.94	33	PASS
GPRS1900	661	0	2	29.47	30.09	33	PASS
GPRS1900	661	0	3	27.42	28.04	33	PASS
GPRS1900	661	0	4	26.26	26.88	33	PASS
GPRS1900	810	0	1	30.41	31.03	33	PASS
GPRS1900	810	0	2	29.51	30.13	33	PASS
GPRS1900	810	0	3	27.65	28.27	33	PASS
GPRS1900	810	0	4	26.53	27.15	33	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
EGPRS850	128	8	1	26.03	24.10	38.5	PASS
EGPRS850	128	8	2	24.95	23.02	38.5	PASS
EGPRS850	128	8	3	22.90	20.97	38.5	PASS
EGPRS850	128	8	4	21.80	19.87	38.5	PASS
EGPRS850	190	8	1	25.76	23.83	38.5	PASS
EGPRS850	190	8	2	24.70	22.77	38.5	PASS
EGPRS850	190	8	3	22.62	20.69	38.5	PASS
EGPRS850	190	8	4	21.50	19.57	38.5	PASS
EGPRS850	251	8	1	25.69	23.76	38.5	PASS
EGPRS850	251	8	2	24.70	22.77	38.5	PASS
EGPRS850	251	8	3	22.55	20.62	38.5	PASS
EGPRS850	251	8	4	21.45	19.52	38.5	PASS
EGPRS1900	512	2	1	25.69	26.31	33	PASS
EGPRS1900	512	2	2	24.43	25.05	33	PASS
EGPRS1900	512	2	3	22.10	22.72	33	PASS
EGPRS1900	512	2	4	20.68	21.30	33	PASS
EGPRS1900	661	2	1	25.41	26.03	33	PASS
EGPRS1900	661	2	2	24.18	24.80	33	PASS
EGPRS1900	661	2	3	21.88	22.50	33	PASS
EGPRS1900	661	2	4	20.51	21.13	33	PASS
EGPRS1900	810	2	1	25.73	26.35	33	PASS
EGPRS1900	810	2	2	24.60	25.22	33	PASS
EGPRS1900	810	2	3	22.28	22.90	33	PASS
EGPRS1900	810	2	4	20.91	21.53	33	PASS

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

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

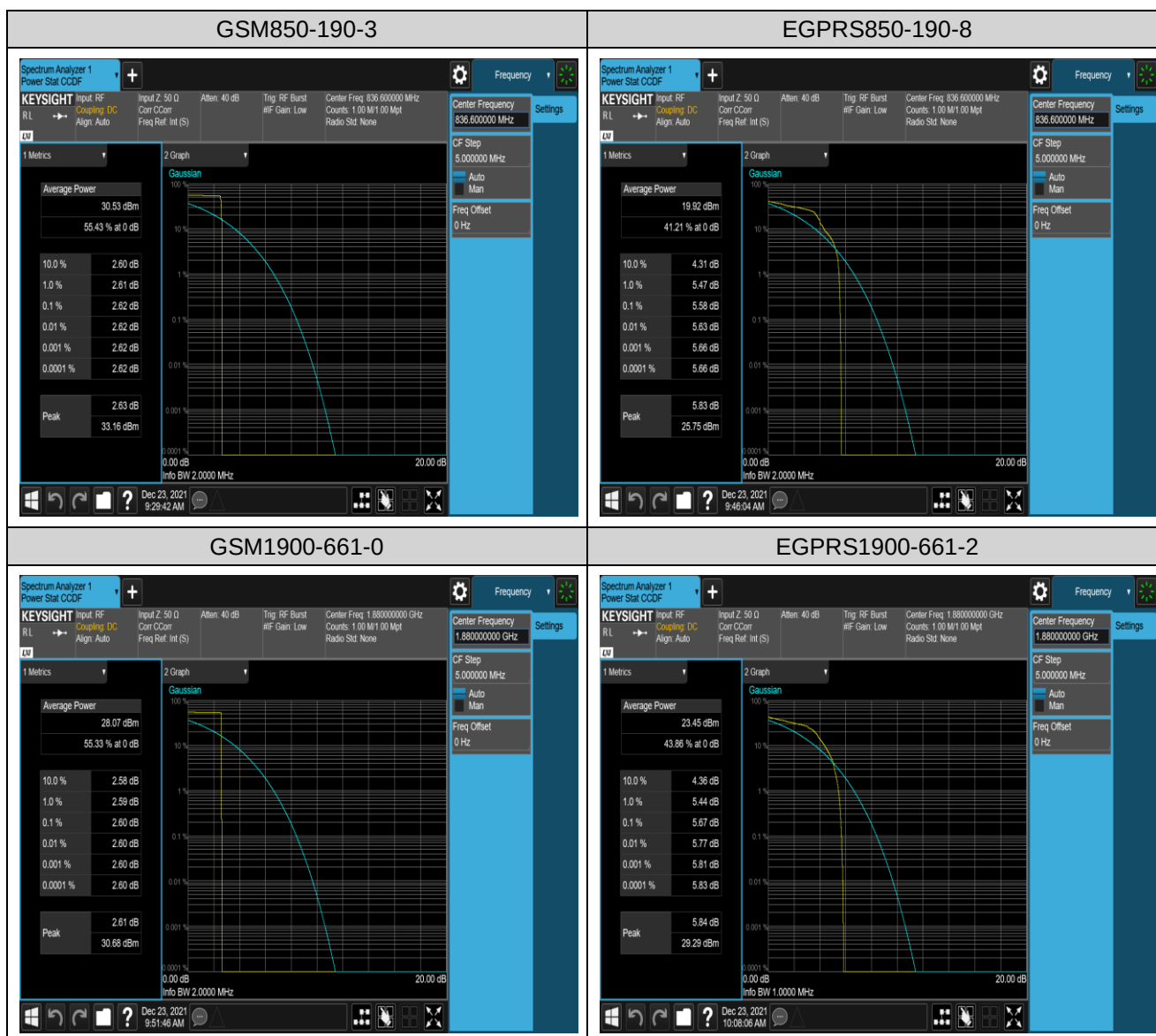
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	PCL	Result(dB)	Limit(dB)	Verdict
GSM850	190	5	2.62	13	PASS
EGPRS850	190	8	5.58	13	PASS
GSM1900	661	0	2.6	13	PASS
EGPRS1900	661	2	5.67	13	PASS

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

Test Graphs

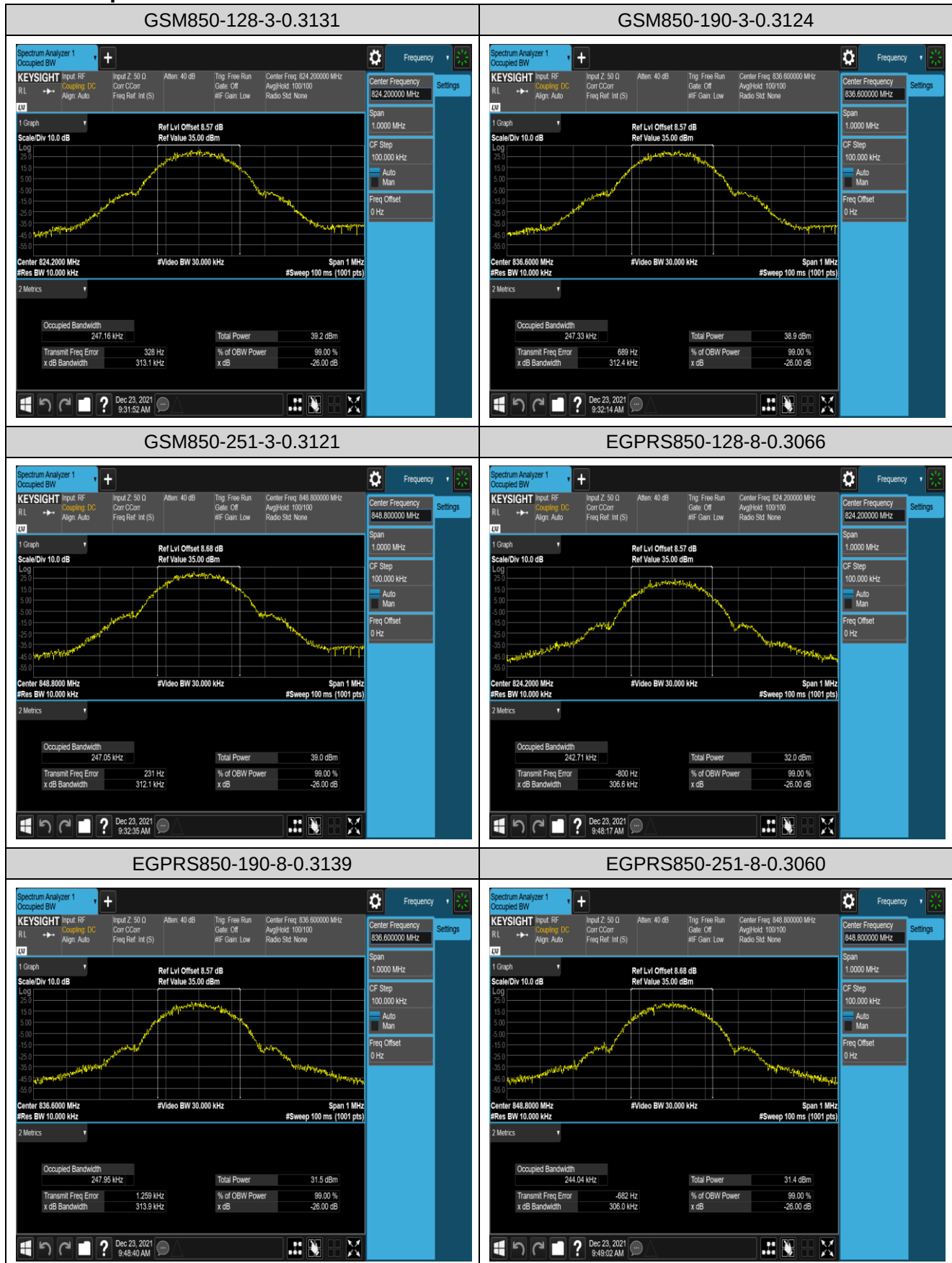


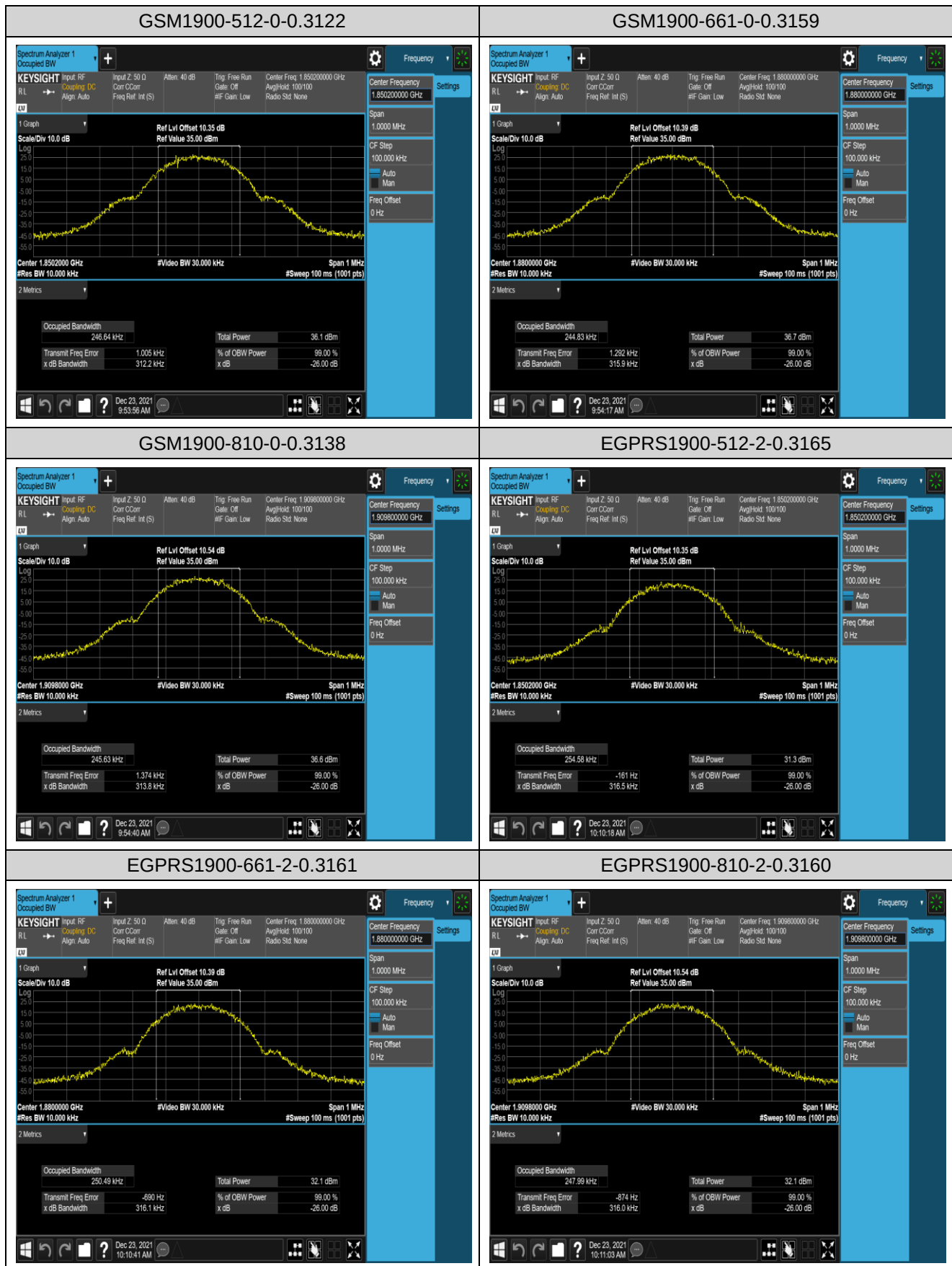
Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	5	0.24716	0.3131	---	PASS
GSM850	190	5	0.24733	0.3124	---	PASS
GSM850	251	5	0.24705	0.3121	---	PASS
EGPRS850	128	8	0.24271	0.3066	---	PASS
EGPRS850	190	8	0.24795	0.3139	---	PASS
EGPRS850	251	8	0.24404	0.3060	---	PASS
GSM1900	512	0	0.24664	0.3122	---	PASS
GSM1900	661	0	0.24483	0.3159	---	PASS
GSM1900	810	0	0.24563	0.3138	---	PASS
EGPRS1900	512	2	0.25458	0.3165	---	PASS
EGPRS1900	661	2	0.25049	0.3161	---	PASS
EGPRS1900	810	2	0.24799	0.3160	---	PASS

Test Graphs



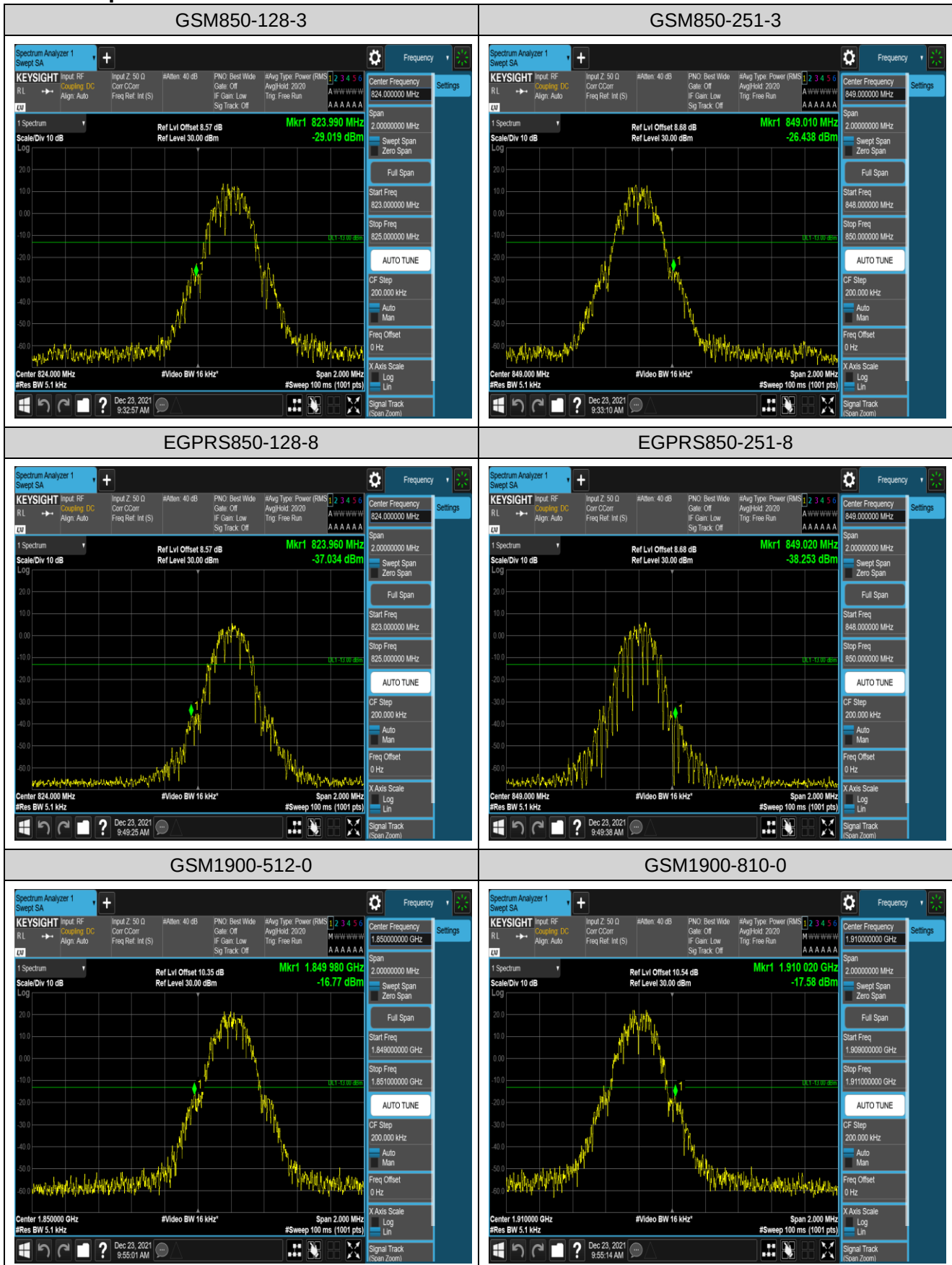


Appendix D: Band Edge

Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	5	823.99	-29.019	-13	PASS
GSM850	251	5	849.01	-26.438	-13	PASS
EGPRS850	128	8	823.96	-37.034	-13	PASS
EGPRS850	251	8	849.02	-38.253	-13	PASS
GSM1900	512	0	1849.98	-16.77	-13	PASS
GSM1900	810	0	1910.02	-17.58	-13	PASS
EGPRS1900	512	2	1849.96	-28.74	-13	PASS
EGPRS1900	810	2	1910.02	-30.28	-13	PASS

Test Graphs

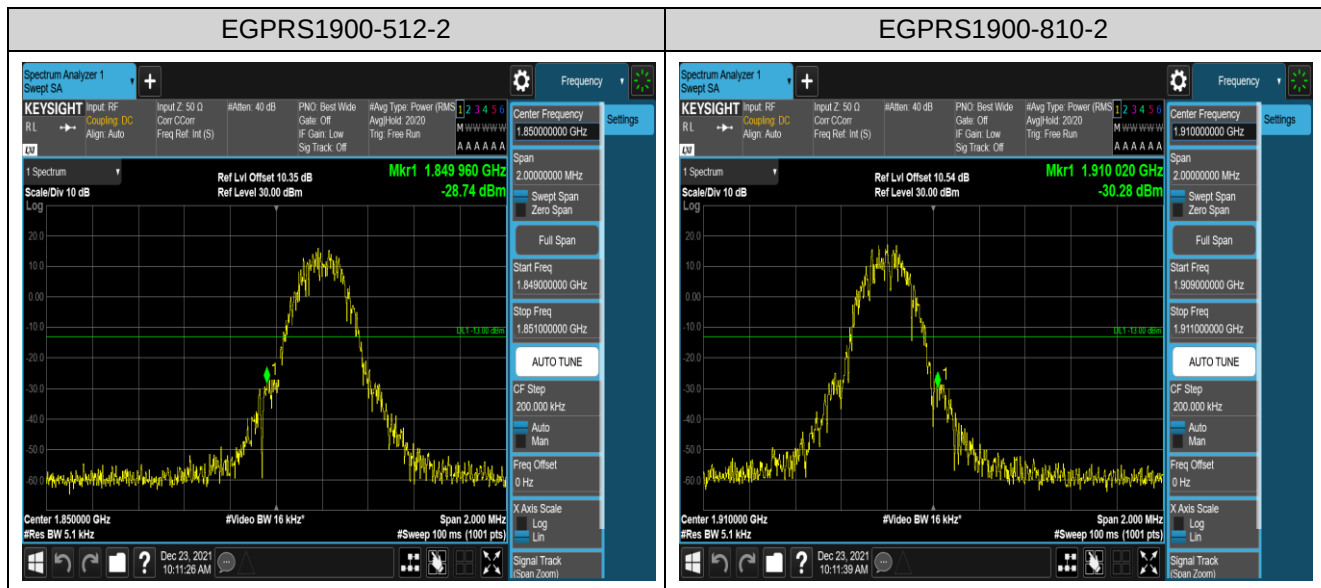


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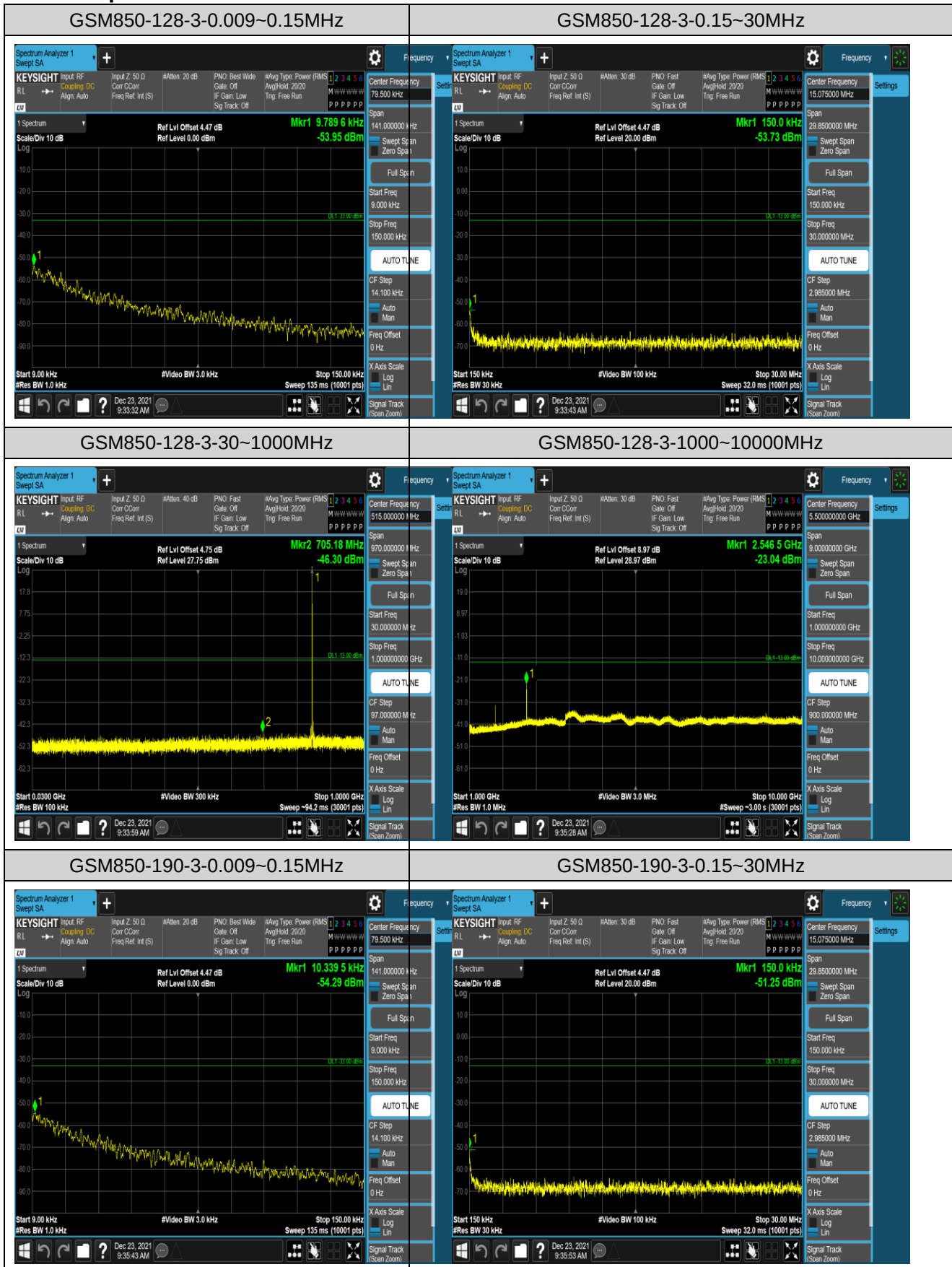
Appendix E: Conducted Spurious Emission

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	-53.95	-33	PASS
GSM850	128	5	0.15~30MHz	0.15	-53.73	-13	PASS
GSM850	128	5	30~1000MHz	705.18	-46.3	-13	PASS
GSM850	128	5	1000~10000MHz	2546.5	-23.04	-13	PASS
GSM850	190	5	0.009~0.15MHz	0.01	-54.29	-33	PASS
GSM850	190	5	0.15~30MHz	0.15	-51.25	-13	PASS
GSM850	190	5	30~1000MHz	941.25	-46.73	-13	PASS
GSM850	190	5	1000~10000MHz	2546.8	-23.48	-13	PASS
GSM850	251	5	0.009~0.15MHz	0.01	-54.81	-33	PASS
GSM850	251	5	0.15~30MHz	0.16	-54.71	-13	PASS
GSM850	251	5	30~1000MHz	967.96	-46.35	-13	PASS
GSM850	251	5	1000~10000MHz	2546.5	-23.09	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-56.32	-43	PASS
GSM1900	512	0	0.15~30MHz	0.15	-52.71	-23	PASS
GSM1900	512	0	30~1000MHz	863.49	-46.98	-13	PASS
GSM1900	512	0	1000~18000MHz	5729.4	-27.75	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-56.24	-43	PASS
GSM1900	661	0	0.15~30MHz	0.15	-53.74	-23	PASS
GSM1900	661	0	30~1000MHz	872.7	-46.43	-13	PASS
GSM1900	661	0	1000~18000MHz	5729.4	-27.88	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-55.7	-43	PASS
GSM1900	810	0	0.15~30MHz	0.16	-51.93	-23	PASS
GSM1900	810	0	30~1000MHz	725.59	-46.39	-13	PASS
GSM1900	810	0	1000~18000MHz	5729.4	-28.05	-13	PASS

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

Test Graphs

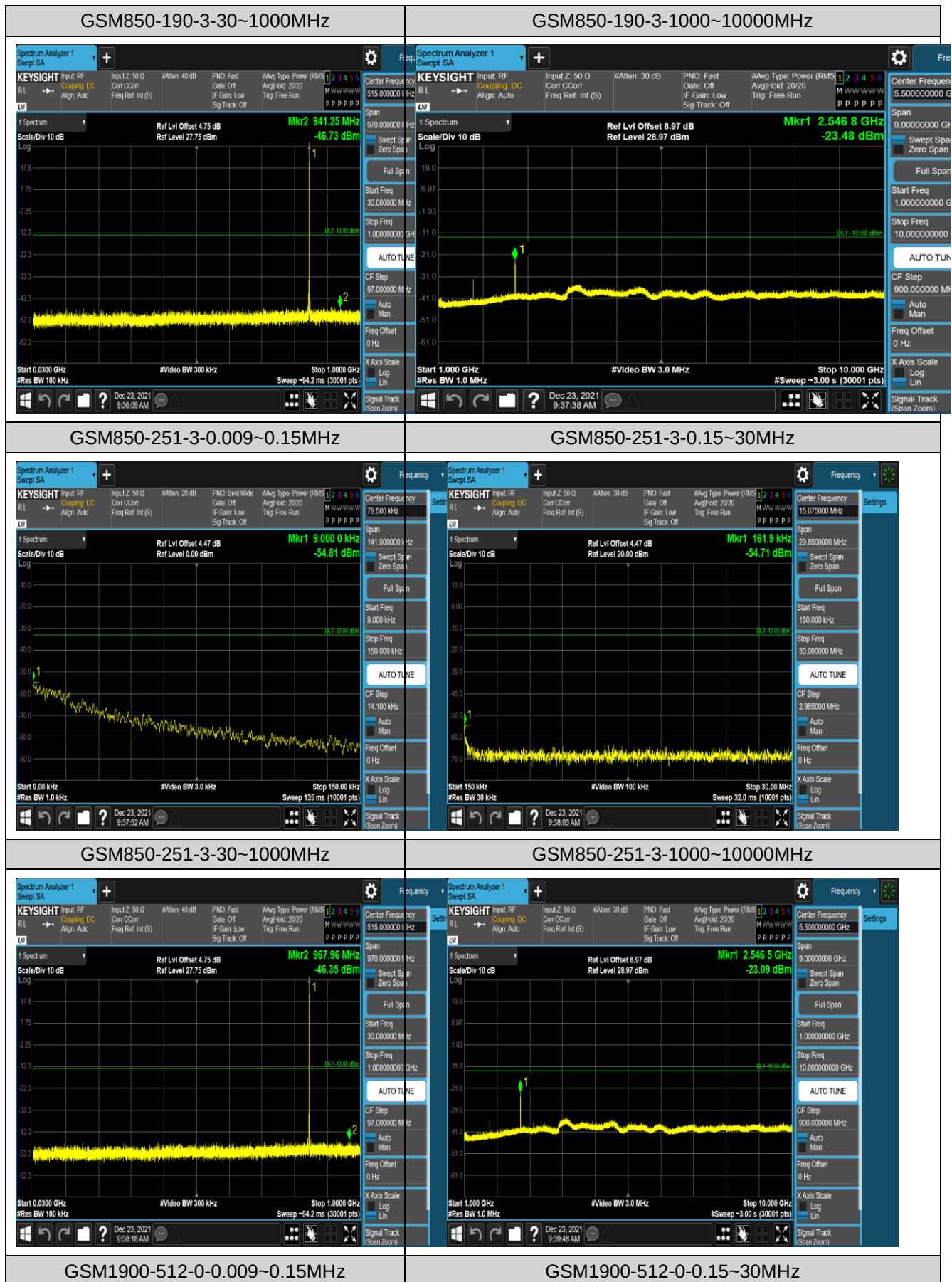


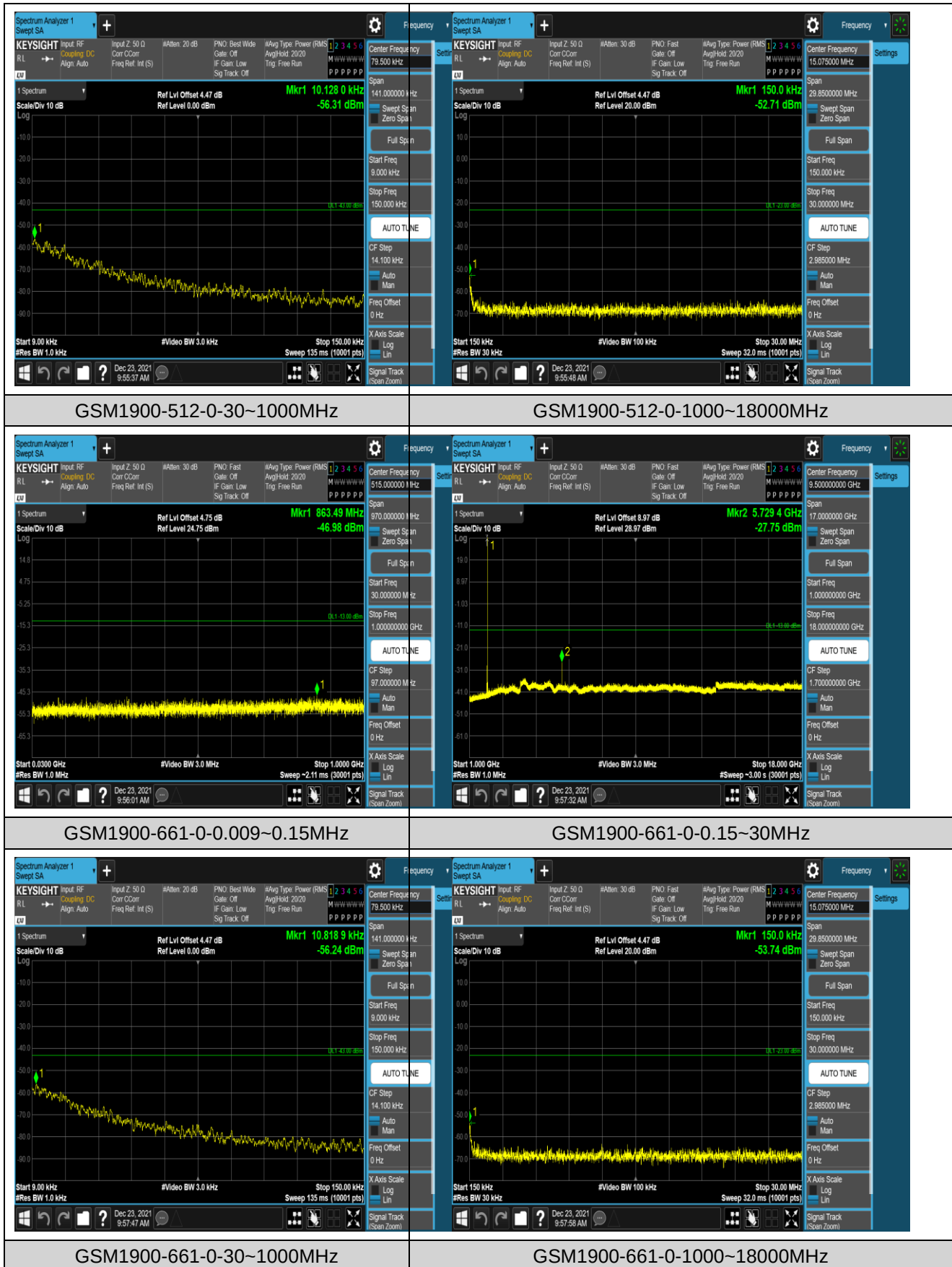
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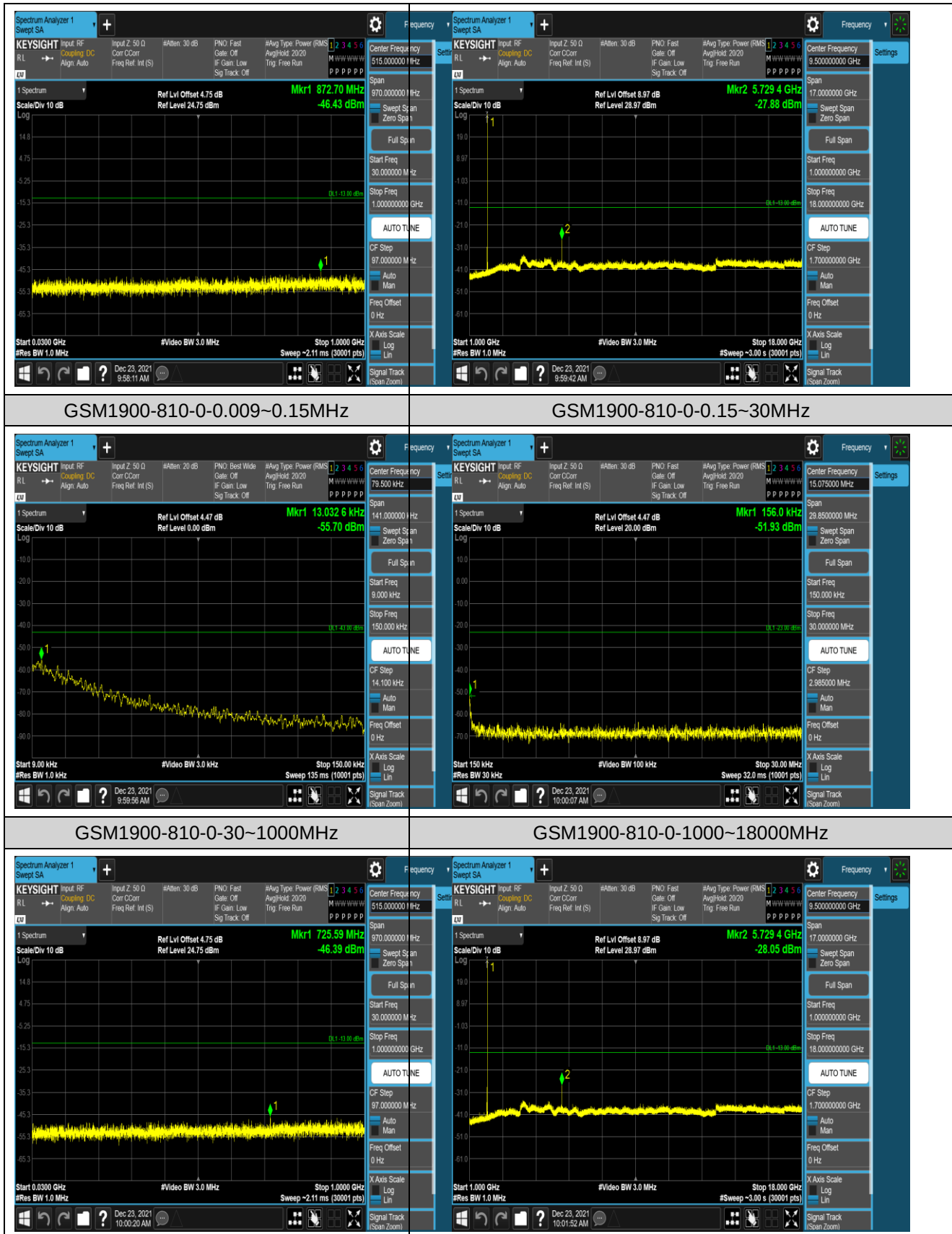
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Appendix F: Frequency Stability

Test Result

Reference Frequency: GSM850 Middle channel=190 Frequency=836.6MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.87	-30	-1.55	-0.001853	±2.5	Pass
	-20	0.26	0.000311		
	-10	0.48	0.000574		
	0	-0.87	-0.001040		
	10	-4.78	-0.005714		
	20	5.29	0.006323		
	30	0.74	0.000885		
	40	1.87	0.002235		
	50	3.71	0.004435		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	0.42	0.000502	±2.5	Pass
	3.87	1.26	0.001506		
	4.45	-0.74	-0.000885		
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	6.20	0.007411	±2.5	Pass
	-20	7.01	0.008379		
	-10	15.53	0.018563		
	0	12.59	0.015049		
	10	17.60	0.021038		
	20	13.37	0.015981		
	30	13.59	0.016244		
	40	21.70	0.025938		
	50	16.53	0.019759		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	7.39	0.008833	±2.5	Pass
	3.87	7.20	0.008606		
	4.45	5.52	0.006598		
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	10.14	0.005394	Within authorized band for PCS 1900	Pass
	-20	7.46	0.003968		
	-10	8.65	0.004601		
	0	2.20	0.001170		
	10	8.49	0.004516		
	20	11.82	0.006287		
	30	9.20	0.004894		
	40	11.07	0.005888		
	50	9.40	0.005000		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	6.84	0.003638	Within authorized band for PCS 1900	Pass
	3.87	14.14	0.007521		
	4.45	2.62	0.001394		
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	17.60	0.009362	Within authorized band for PCS 1900	Pass
	-20	21.37	0.011367		
	-10	46.07	0.024505		
	0	38.94	0.020713		
	10	20.70	0.011011		
	20	46.56	0.024766		
	30	44.04	0.023426		
	40	30.93	0.016452		
	50	41.20	0.021915		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	13.82	0.007351	Within authorized band for PCS 1900	Pass
	3.87	19.86	0.010564		
	4.45	19.60	0.010426		
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

