

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	33.35	27.5	38.45	PASS
GSM850	190	5	33.55	27.7	38.45	PASS
GSM850	251	5	33.47	27.62	38.45	PASS
GSM1900	512	0	29.85	26.45	33.00	PASS
GSM1900	661	0	29.78	26.38	33.00	PASS
GSM1900	810	0	29.52	26.12	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	5	1	33.35	27.5	38.45	PASS
GPRS850	128	5	2	31.25	25.4	38.45	PASS
GPRS850	128	5	3	29.37	23.52	38.45	PASS
GPRS850	128	5	4	27.38	21.53	38.45	PASS
GPRS850	190	5	1	33.54	27.69	38.45	PASS
GPRS850	190	5	2	31.36	25.51	38.45	PASS
GPRS850	190	5	3	29.50	23.65	38.45	PASS
GPRS850	190	5	4	27.50	21.65	38.45	PASS
GPRS850	251	5	1	33.48	27.63	38.45	PASS
GPRS850	251	5	2	31.25	25.4	38.45	PASS
GPRS850	251	5	3	29.35	23.5	38.45	PASS
GPRS850	251	5	4	27.35	21.5	38.45	PASS
GPRS1900	512	0	1	29.85	26.45	33.00	PASS
GPRS1900	512	0	2	27.32	23.92	33.00	PASS
GPRS1900	512	0	3	25.86	22.46	33.00	PASS
GPRS1900	512	0	4	23.92	20.52	33.00	PASS
GPRS1900	661	0	1	29.76	26.36	33.00	PASS
GPRS1900	661	0	2	27.60	24.2	33.00	PASS
GPRS1900	661	0	3	26.15	22.75	33.00	PASS
GPRS1900	661	0	4	24.21	20.81	33.00	PASS
GPRS1900	810	0	1	29.51	26.11	33.00	PASS
GPRS1900	810	0	2	27.36	23.96	33.00	PASS
GPRS1900	810	0	3	25.90	22.5	33.00	PASS
GPRS1900	810	0	4	23.95	20.55	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
EGPRS850	128	8	1	25.36	19.51	38.45	PASS
EGPRS850	128	8	2	24.30	18.45	38.45	PASS
EGPRS850	128	8	3	22.44	16.59	38.45	PASS
EGPRS850	128	8	4	20.16	14.31	38.45	PASS
EGPRS850	190	8	1	25.62	19.77	38.45	PASS
EGPRS850	190	8	2	24.59	18.74	38.45	PASS
EGPRS850	190	8	3	22.78	16.93	38.45	PASS
EGPRS850	190	8	4	20.53	14.68	38.45	PASS
EGPRS850	251	8	1	25.54	19.69	38.45	PASS
EGPRS850	251	8	2	24.58	18.73	38.45	PASS
EGPRS850	251	8	3	22.62	16.77	38.45	PASS
EGPRS850	251	8	4	20.31	14.46	38.45	PASS
EGPRS1900	512	2	1	23.97	20.57	33.00	PASS
EGPRS1900	512	2	2	22.14	18.74	33.00	PASS
EGPRS1900	512	2	3	19.96	16.56	33.00	PASS
EGPRS1900	512	2	4	17.82	14.42	33.00	PASS
EGPRS1900	661	2	1	24.11	20.71	33.00	PASS
EGPRS1900	661	2	2	22.37	18.97	33.00	PASS
EGPRS1900	661	2	3	20.19	16.79	33.00	PASS
EGPRS1900	661	2	4	18.32	14.92	33.00	PASS
EGPRS1900	810	2	1	23.56	20.16	33.00	PASS
EGPRS1900	810	2	2	21.75	18.35	33.00	PASS
EGPRS1900	810	2	3	19.68	16.28	33.00	PASS
EGPRS1900	810	2	4	17.57	14.17	33.00	PASS

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

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

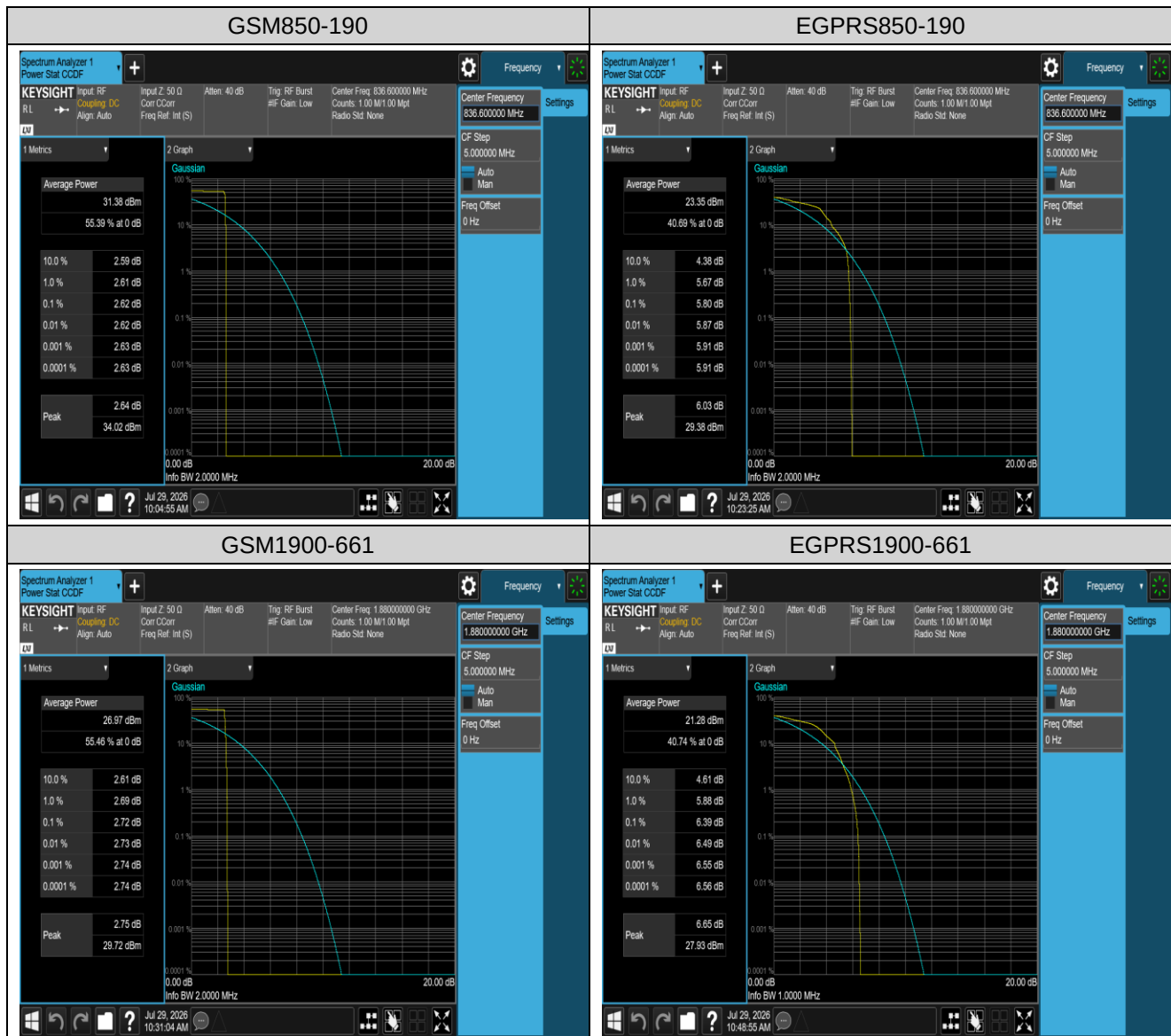
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	PCL	Result(dB)	Limit(dB)	Verdict
GSM850	190	5	2.62	13	PASS
EGPRS850	190	8	5.8	13	PASS
GSM1900	661	0	2.72	13	PASS
EGPRS1900	661	2	6.39	13	PASS

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

Test Graphs

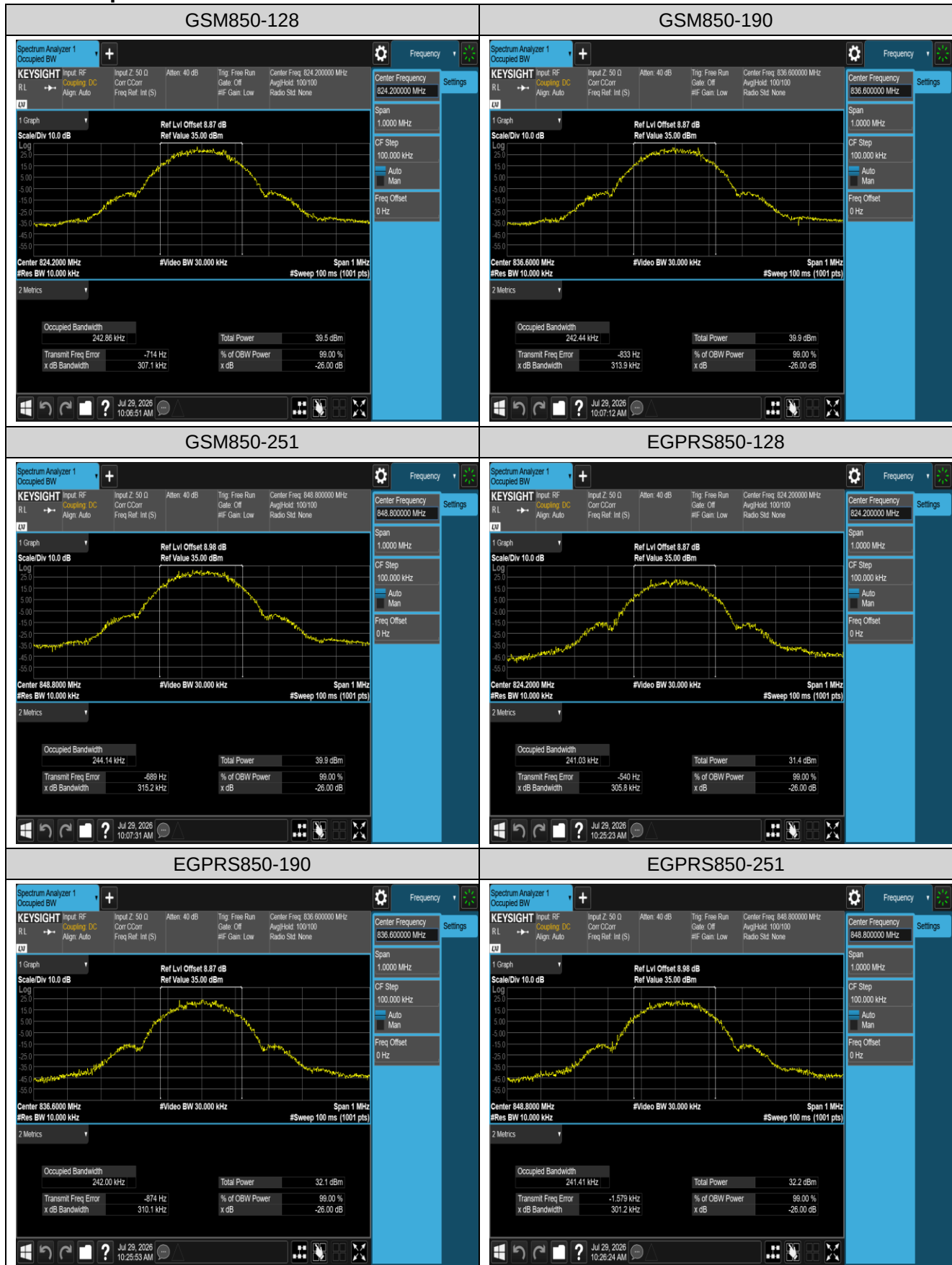


Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	5	0.24286	0.3071	---	PASS
GSM850	190	5	0.24244	0.3139	---	PASS
GSM850	251	5	0.24414	0.3152	---	PASS
EGPRS850	128	8	0.24103	0.3058	---	PASS
EGPRS850	190	8	0.24200	0.3101	---	PASS
EGPRS850	251	8	0.24141	0.3012	---	PASS
GSM1900	512	0	0.24257	0.3098	---	PASS
GSM1900	661	0	0.24391	0.3118	---	PASS
GSM1900	810	0	0.24250	0.3156	---	PASS
EGPRS1900	512	2	0.24177	0.3165	---	PASS
EGPRS1900	661	2	0.24582	0.3070	---	PASS
EGPRS1900	810	2	0.23914	0.3076	---	PASS

Test Graphs

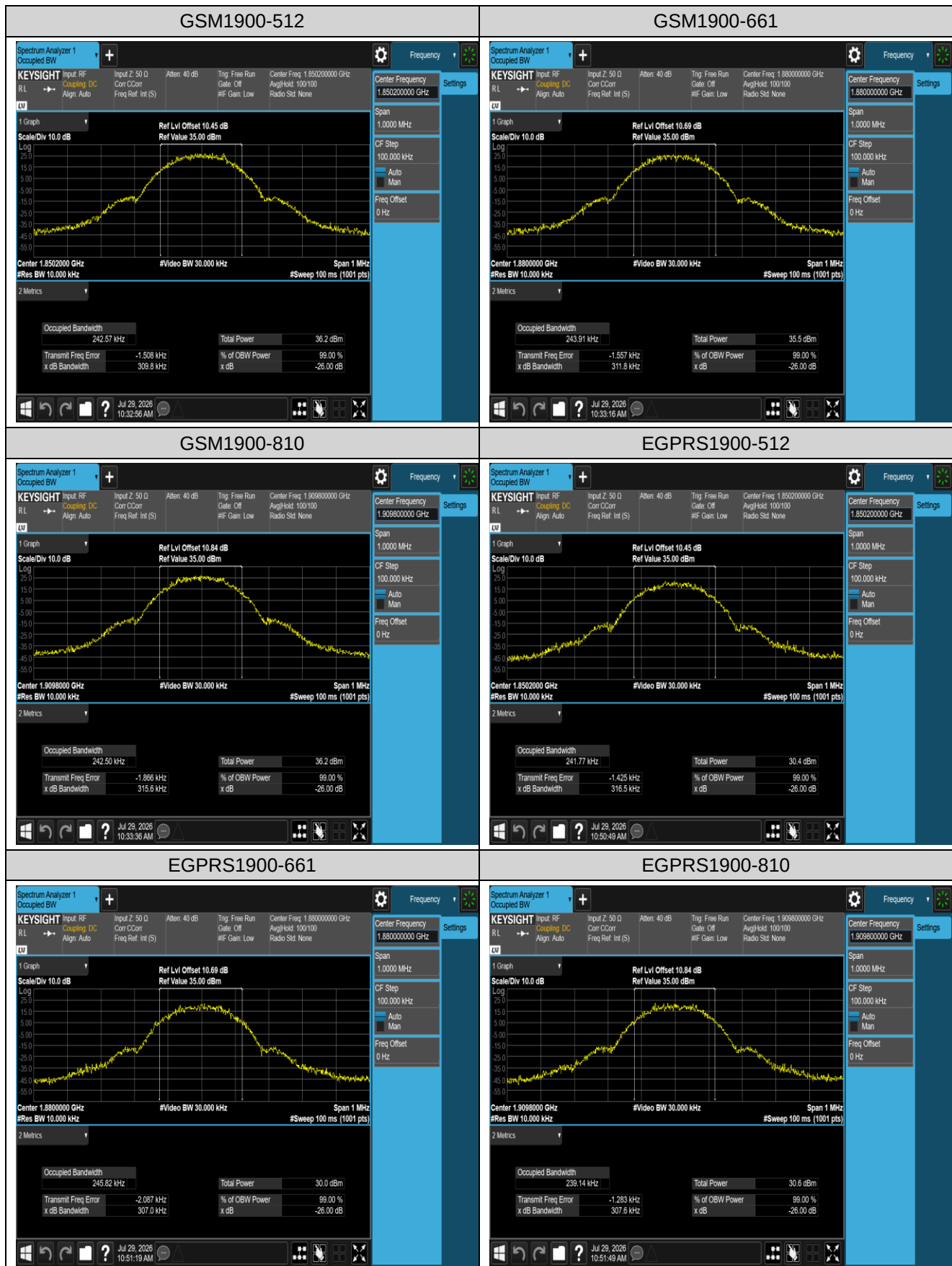


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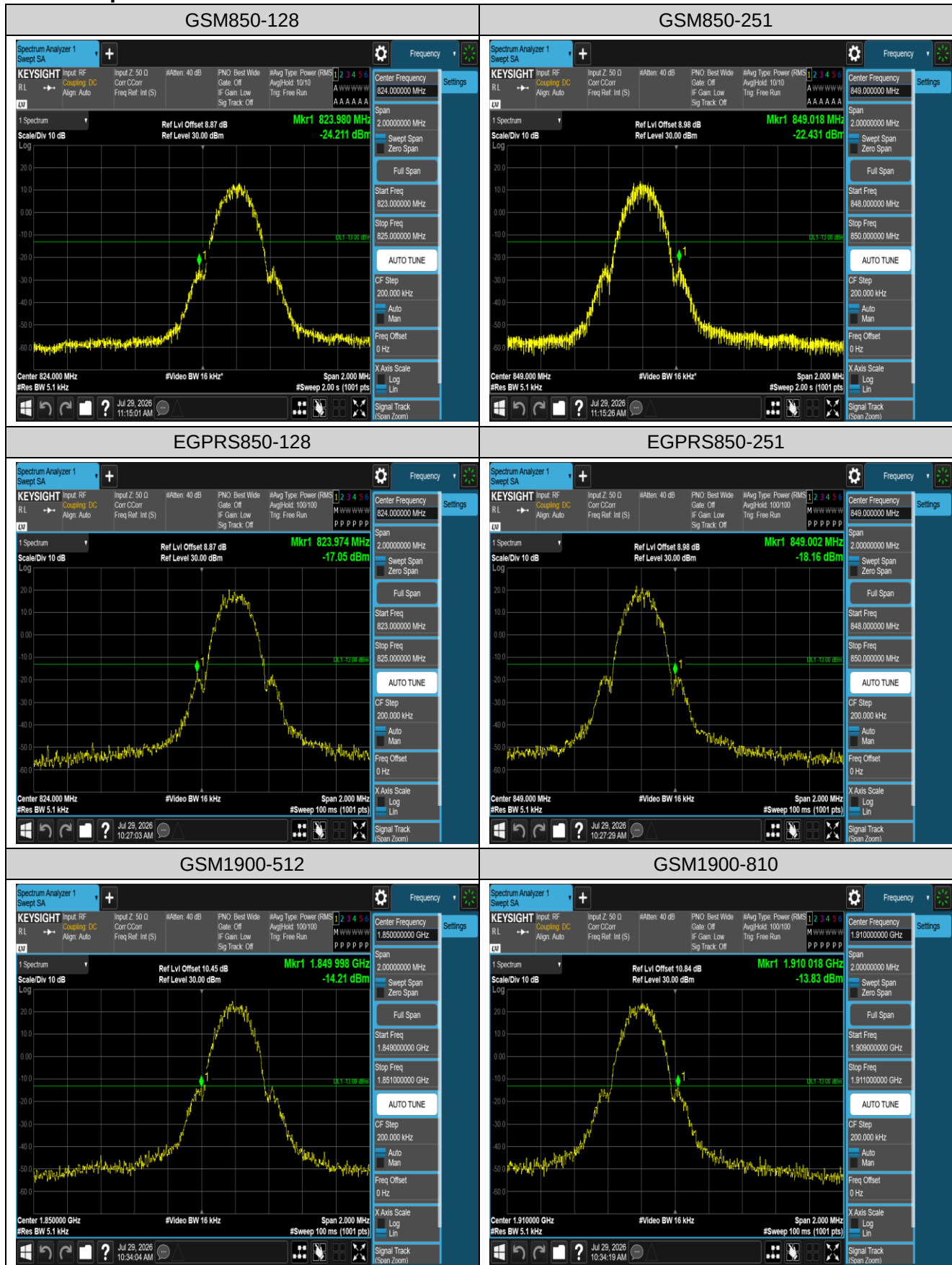


Appendix D: Band Edge

Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	5	823.98	-24.21	-13	PASS
GSM850	251	5	849.02	-22.43	-13	PASS
EGPRS850	128	8	823.97	-17.05	-13	PASS
EGPRS850	251	8	849.00	-18.16	-13	PASS
GSM1900	512	0	1850.00	-14.21	-13	PASS
GSM1900	810	0	1910.02	-13.83	-13	PASS
EGPRS1900	512	2	1849.98	-19.20	-13	PASS
EGPRS1900	810	2	1910.01	-18.97	-13	PASS

Test Graphs

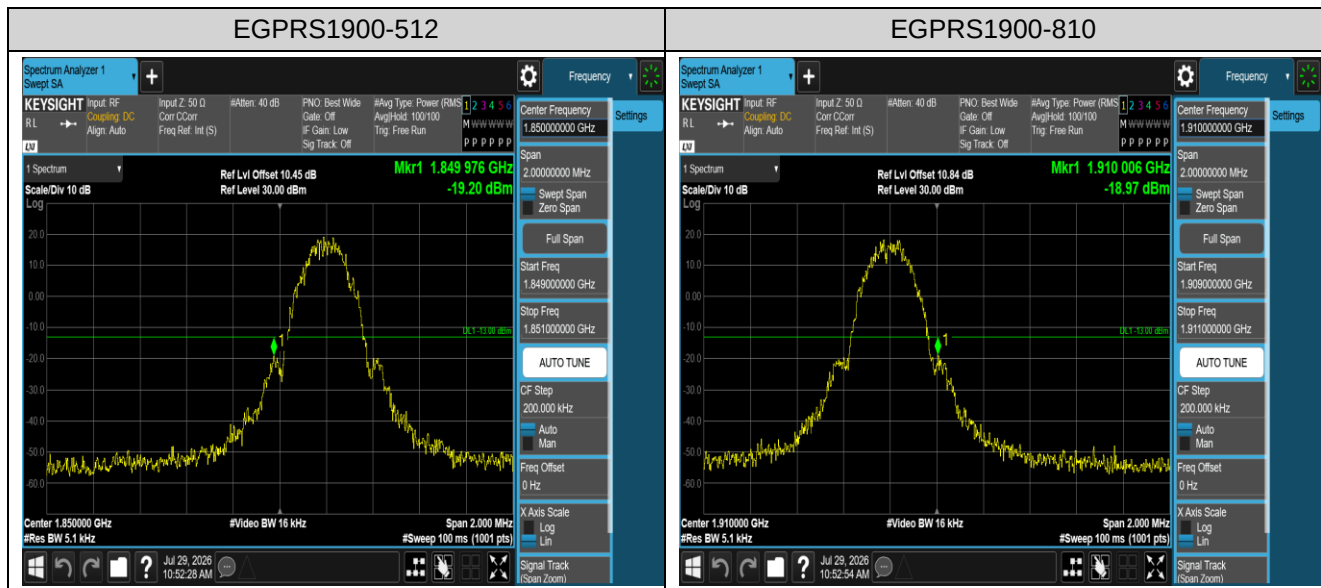


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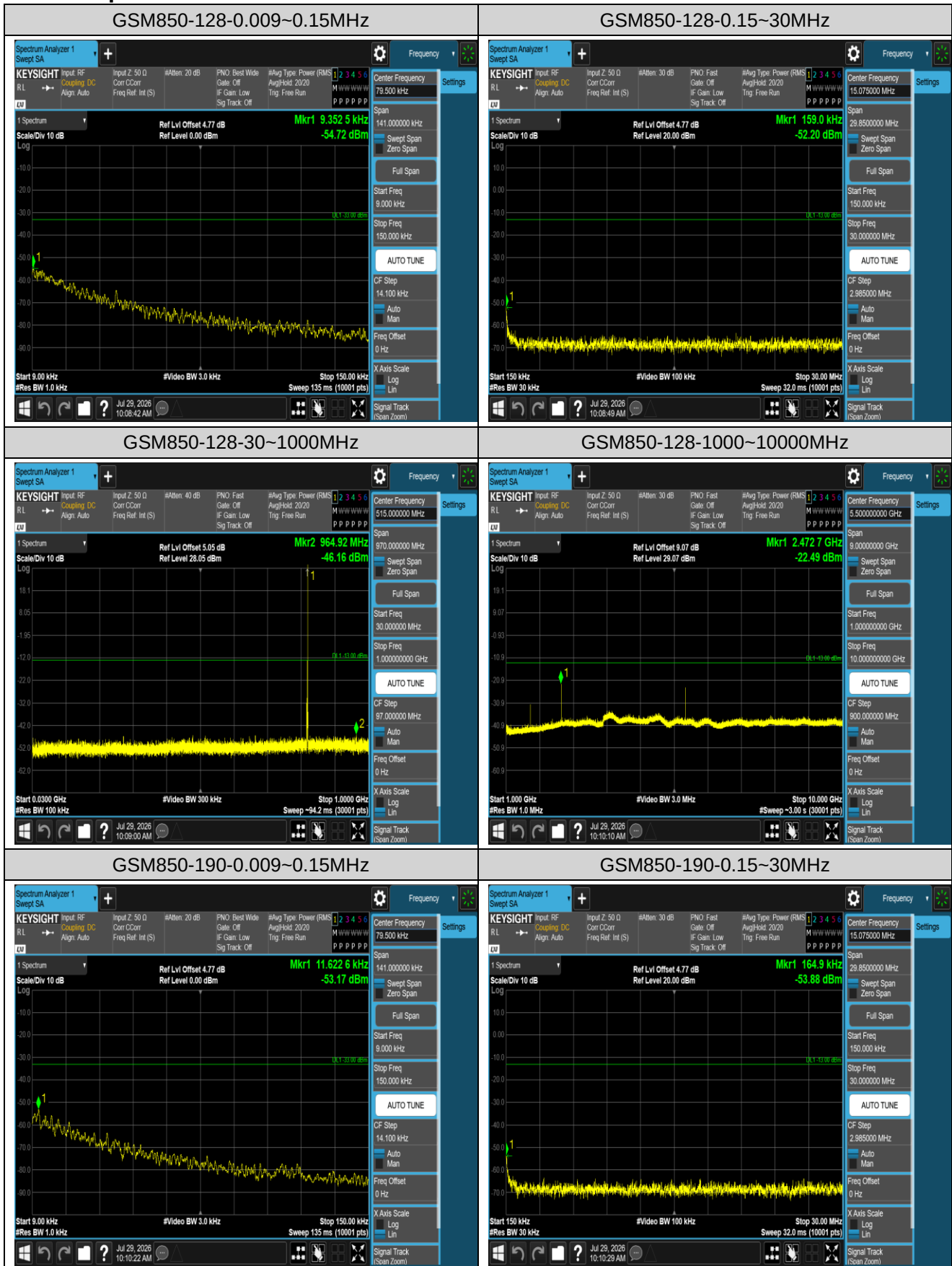
Appendix E: Conducted Spurious Emission

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	-54.72	-33	PASS
GSM850	128	5	0.15~30MHz	0.16	-52.2	-13	PASS
GSM850	128	5	30~1000MHz	964.92	-46.16	-13	PASS
GSM850	128	5	1000~10000MHz	2472.7	-22.49	-13	PASS
GSM850	190	5	0.009~0.15MHz	0.01	-53.17	-33	PASS
GSM850	190	5	0.15~30MHz	0.16	-53.88	-13	PASS
GSM850	190	5	30~1000MHz	686.88	-46.35	-13	PASS
GSM850	190	5	1000~10000MHz	2509.9	-21.22	-13	PASS
GSM850	251	5	0.009~0.15MHz	0.01	-54.12	-33	PASS
GSM850	251	5	0.15~30MHz	0.16	-53.97	-13	PASS
GSM850	251	5	30~1000MHz	985.39	-46.19	-13	PASS
GSM850	251	5	1000~10000MHz	2546.5	-20.79	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-59.55	-43	PASS
GSM1900	512	0	0.15~30MHz	0.15	-53.31	-23	PASS
GSM1900	512	0	30~1000MHz	845.38	-47.29	-13	PASS
GSM1900	512	0	1000~18000MHz	3786.87	-24.3	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-60.62	-43	PASS
GSM1900	661	0	0.15~30MHz	0.16	-53.83	-23	PASS
GSM1900	661	0	30~1000MHz	834.68	-46.43	-13	PASS
GSM1900	661	0	1000~18000MHz	3765.9	-25.02	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-60.06	-43	PASS
GSM1900	810	0	0.15~30MHz	0.15	-53.86	-23	PASS
GSM1900	810	0	30~1000MHz	874.09	-47.46	-13	PASS
GSM1900	810	0	1000~18000MHz	3832.2	-24.88	-13	PASS

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

Test Graphs



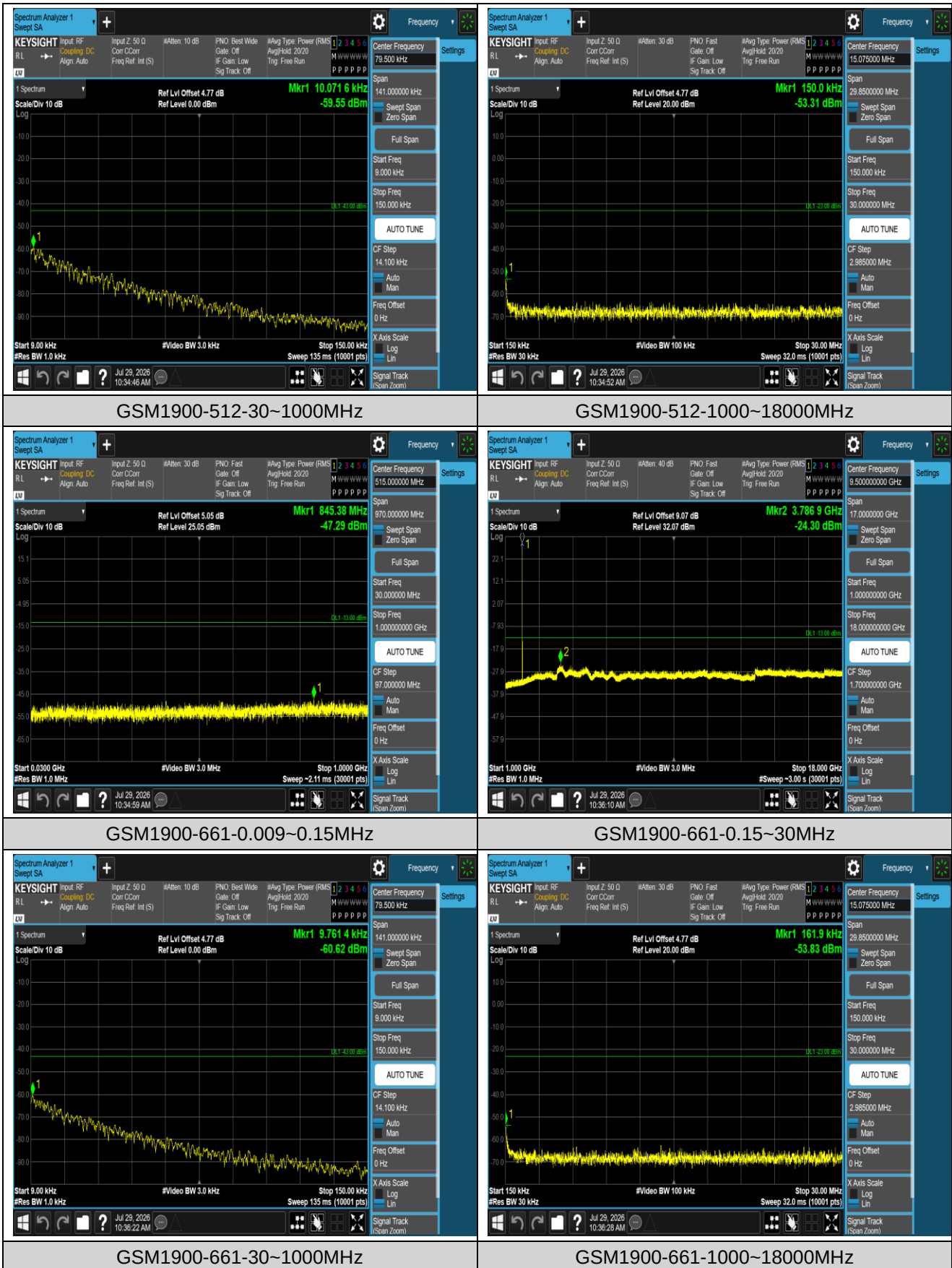


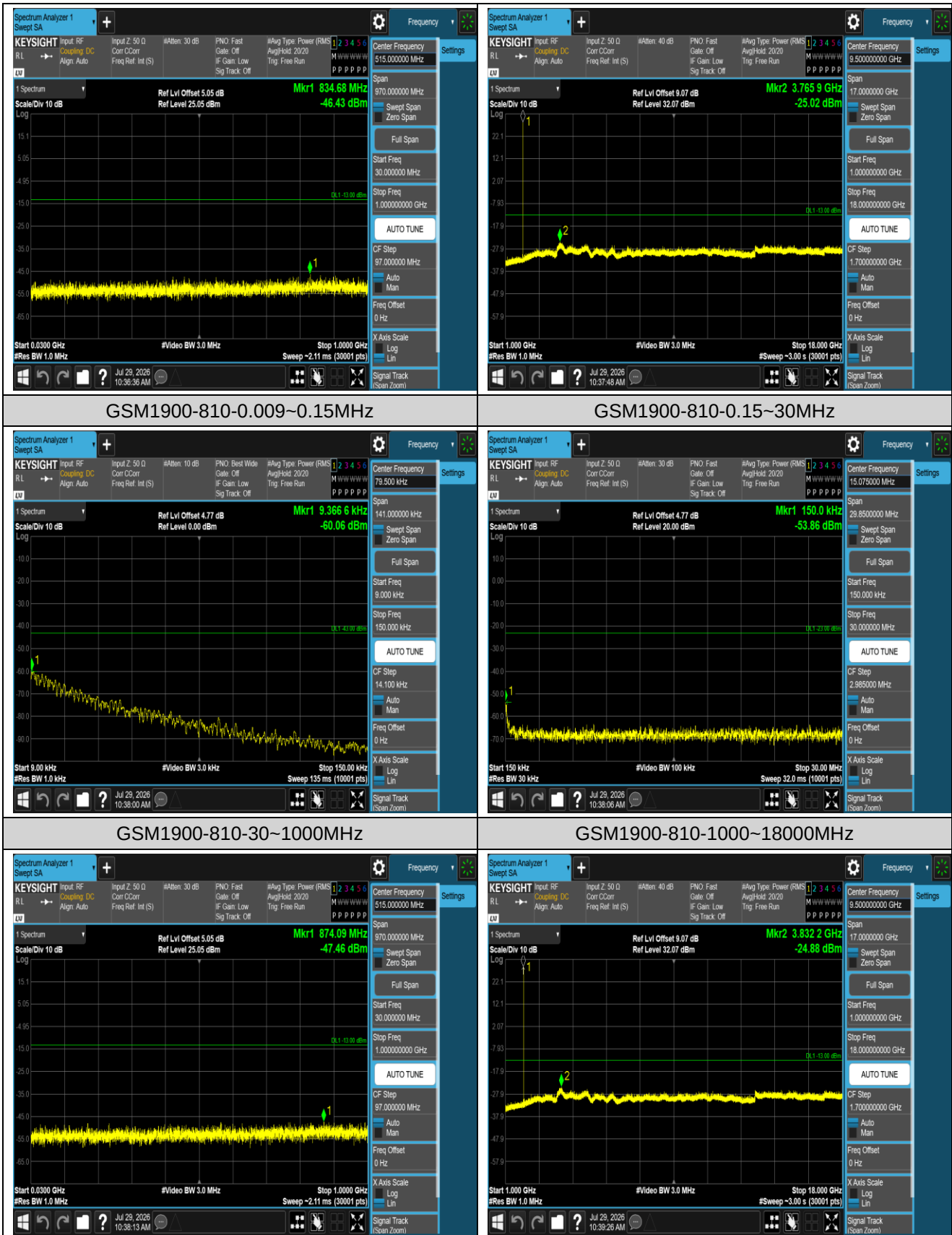
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Appendix F: Frequency Stability

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	-2.49	-0.002976	±2.5	Pass
	-20	1.55	0.001853		
	-10	5.49	0.006562		
	0	2.97	0.003550		
	10	-0.19	-0.000227		
	20	0.48	0.000574		
	30	-1.42	-0.001697		
	40	-5.42	-0.006479		
	50	-0.48	-0.000574		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	-5.42	-0.006479	±2.5	Pass
	3.85	4.46	0.005331		
	4.20	3.65	0.004363		
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	8.52	0.010184	±2.5	Pass
	-20	5.81	0.006945		
	-10	11.69	0.013973		
	0	12.82	0.015324		
	10	5.88	0.007028		
	20	7.72	0.009228		
	30	3.23	0.003861		
	40	6.97	0.008331		
	50	6.30	0.007530		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	5.20	0.006216	±2.5	Pass
	3.85	4.52	0.005403		
	4.20	7.43	0.008881		
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		
3.80	-30	-13.56	-0.007213	Within authorized band for PCS 1900	Pass
	-20	-20.76	-0.011043		
	-10	-16.85	-0.008963		
	0	-18.14	-0.009649		
	10	-19.92	-0.010596		
	20	-19.44	-0.010340		
	30	-8.46	-0.004500		
	40	-8.98	-0.004777		
	50	-14.27	-0.007590		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	-8.36	-0.004447	Within authorized band for PCS 1900	Pass
	3.85	-9.49	-0.005048		
	4.20	-6.39	-0.003399		
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		
3.80	-30	-10.30	-0.005479	Within authorized band for PCS 1900	Pass
	-20	-15.50	-0.008245		
	-10	-2.87	-0.001527		
	0	-0.23	-0.000122		
	10	-19.31	-0.010271		
	20	-14.63	-0.007782		
	30	-5.88	-0.003128		
	40	-2.65	-0.001410		
	50	-2.55	-0.001356		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	-18.60	-0.009894	Within authorized band for PCS 1900	Pass
	3.85	-15.53	-0.008261		
	4.20	-13.82	-0.007351		
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

