

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	32.35	28.70	38.45	PASS
GSM850	190	5	32.67	29.02	38.45	PASS
GSM850	251	5	32.49	28.84	38.45	PASS
GSM1900	512	0	30.10	29.60	33.00	PASS
GSM1900	661	0	29.91	29.41	33.00	PASS
GSM1900	810	0	29.10	28.60	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	5	1	32.44	28.79	38.45	PASS
GPRS850	128	5	2	31.74	28.09	38.45	PASS
GPRS850	128	5	3	30.03	26.38	38.45	PASS
GPRS850	128	5	4	28.95	25.30	38.45	PASS
GPRS850	190	5	1	32.69	29.04	38.45	PASS
GPRS850	190	5	2	31.99	28.34	38.45	PASS
GPRS850	190	5	3	30.30	26.65	38.45	PASS
GPRS850	190	5	4	29.24	25.59	38.45	PASS
GPRS850	251	5	1	32.51	28.86	38.45	PASS
GPRS850	251	5	2	31.82	28.17	38.45	PASS
GPRS850	251	5	3	30.14	26.49	38.45	PASS
GPRS850	251	5	4	29.08	25.43	38.45	PASS
GPRS1900	512	0	1	30.15	29.65	33.00	PASS
GPRS1900	512	0	2	29.38	28.88	33.00	PASS
GPRS1900	512	0	3	27.52	27.02	33.00	PASS
GPRS1900	512	0	4	26.40	25.90	33.00	PASS
GPRS1900	661	0	1	29.90	29.40	33.00	PASS
GPRS1900	661	0	2	29.23	28.73	33.00	PASS
GPRS1900	661	0	3	27.47	26.97	33.00	PASS
GPRS1900	661	0	4	26.40	25.90	33.00	PASS
GPRS1900	810	0	1	29.14	28.64	33.00	PASS
GPRS1900	810	0	2	28.49	27.99	33.00	PASS
GPRS1900	810	0	3	26.84	26.34	33.00	PASS
GPRS1900	810	0	4	25.82	25.32	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
EGPRS850	128	8	1	27.34	23.69	38.45	PASS
EGPRS850	128	8	2	26.28	22.63	38.45	PASS
EGPRS850	128	8	3	24.08	20.43	38.45	PASS
EGPRS850	128	8	4	22.96	19.31	38.45	PASS
EGPRS850	190	8	1	27.11	23.46	38.45	PASS
EGPRS850	190	8	2	26.15	22.50	38.45	PASS
EGPRS850	190	8	3	23.97	20.32	38.45	PASS
EGPRS850	190	8	4	22.82	19.17	38.45	PASS
EGPRS850	251	8	1	27.12	23.47	38.45	PASS
EGPRS850	251	8	2	26.19	22.54	38.45	PASS
EGPRS850	251	8	3	23.98	20.33	38.45	PASS
EGPRS850	251	8	4	22.93	19.28	38.45	PASS
EGPRS1900	512	2	1	24.58	24.08	33.00	PASS
EGPRS1900	512	2	2	23.48	22.98	33.00	PASS
EGPRS1900	512	2	3	21.40	20.90	33.00	PASS
EGPRS1900	512	2	4	20.25	19.75	33.00	PASS
EGPRS1900	661	2	1	24.60	24.10	33.00	PASS
EGPRS1900	661	2	2	23.62	23.12	33.00	PASS
EGPRS1900	661	2	3	21.58	21.08	33.00	PASS
EGPRS1900	661	2	4	20.40	19.90	33.00	PASS
EGPRS1900	810	2	1	24.34	23.84	33.00	PASS
EGPRS1900	810	2	2	23.40	22.90	33.00	PASS
EGPRS1900	810	2	3	21.37	20.87	33.00	PASS
EGPRS1900	810	2	4	20.18	19.68	33.00	PASS

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

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

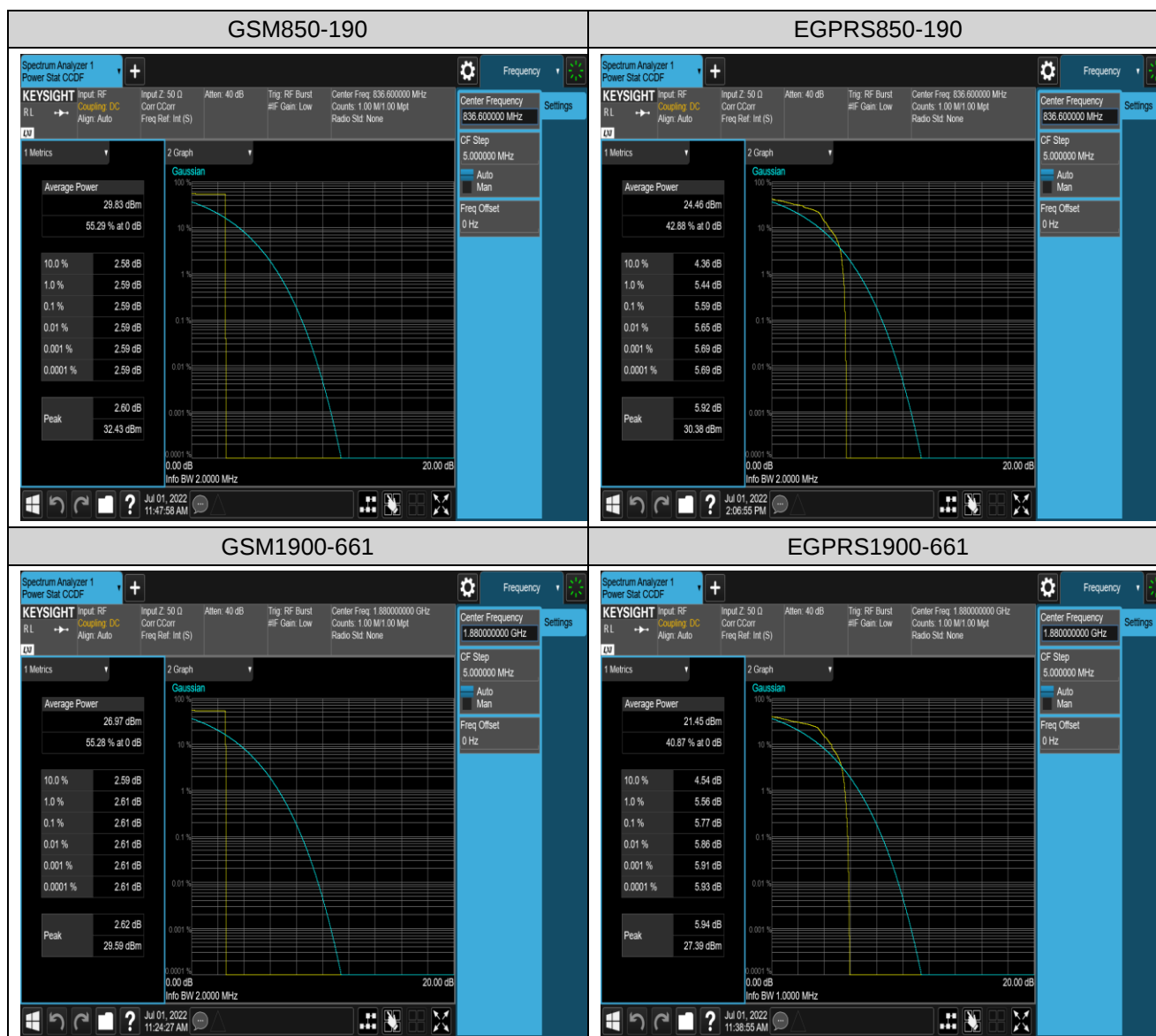
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	PCL	Result(dB)	Limit(dB)	Verdict
GSM850	190	5	2.59	13	PASS
EGPRS850	190	8	5.59	13	PASS
GSM1900	661	0	2.61	13	PASS
EGPRS1900	661	2	5.77	13	PASS

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

Test Graphs

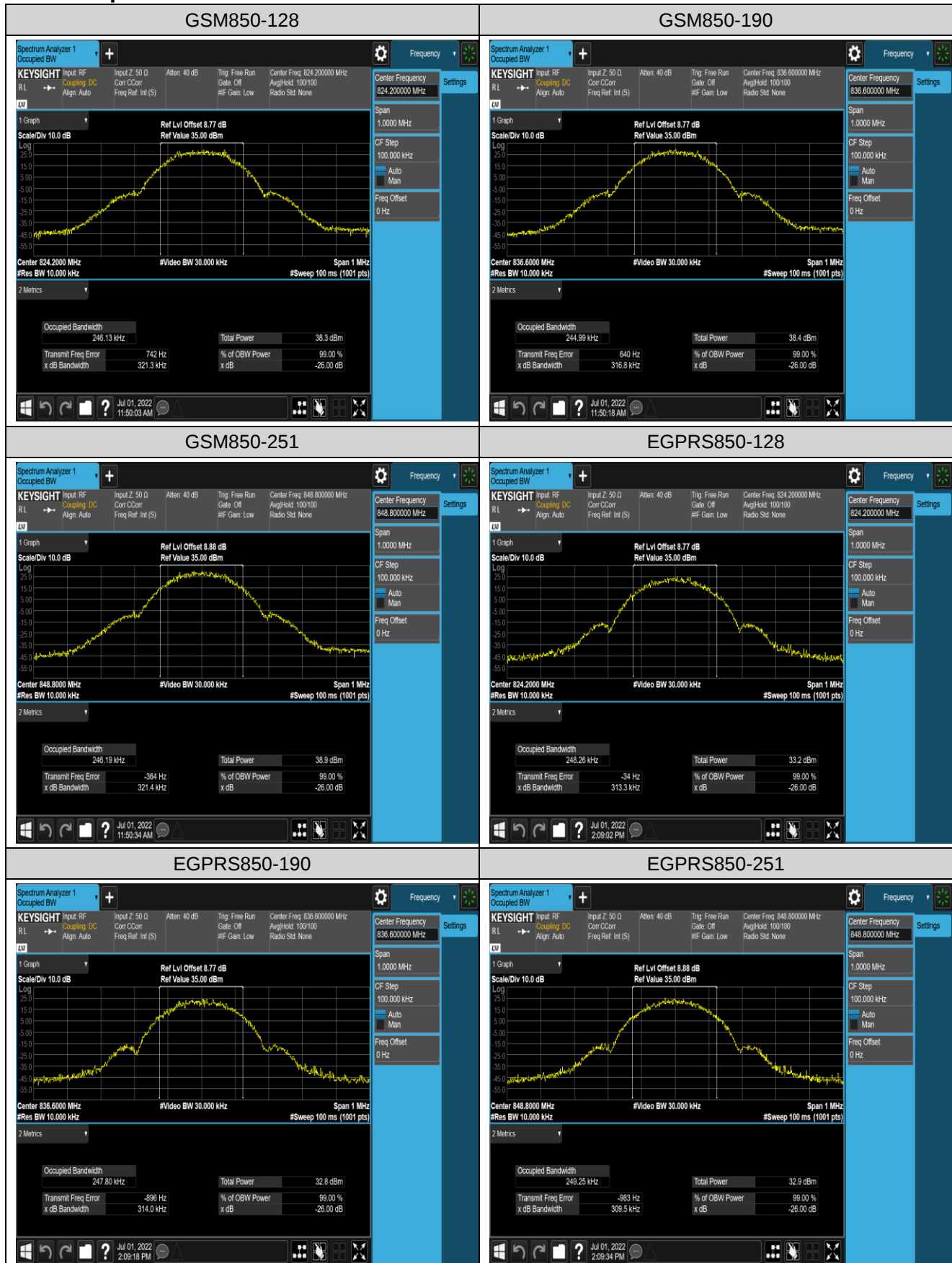


Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	5	0.24613	0.3213	---	PASS
GSM850	190	5	0.24499	0.3168	---	PASS
GSM850	251	5	0.24619	0.3214	---	PASS
EGPRS850	128	8	0.24826	0.3133	---	PASS
EGPRS850	190	8	0.24780	0.3140	---	PASS
EGPRS850	251	8	0.24925	0.3095	---	PASS
GSM1900	512	0	0.24662	0.3158	---	PASS
GSM1900	661	0	0.24307	0.3162	---	PASS
GSM1900	810	0	0.24555	0.3213	---	PASS
EGPRS1900	512	2	0.24726	0.3134	---	PASS
EGPRS1900	661	2	0.24605	0.3057	---	PASS
EGPRS1900	810	2	0.24868	0.3136	---	PASS

Test Graphs

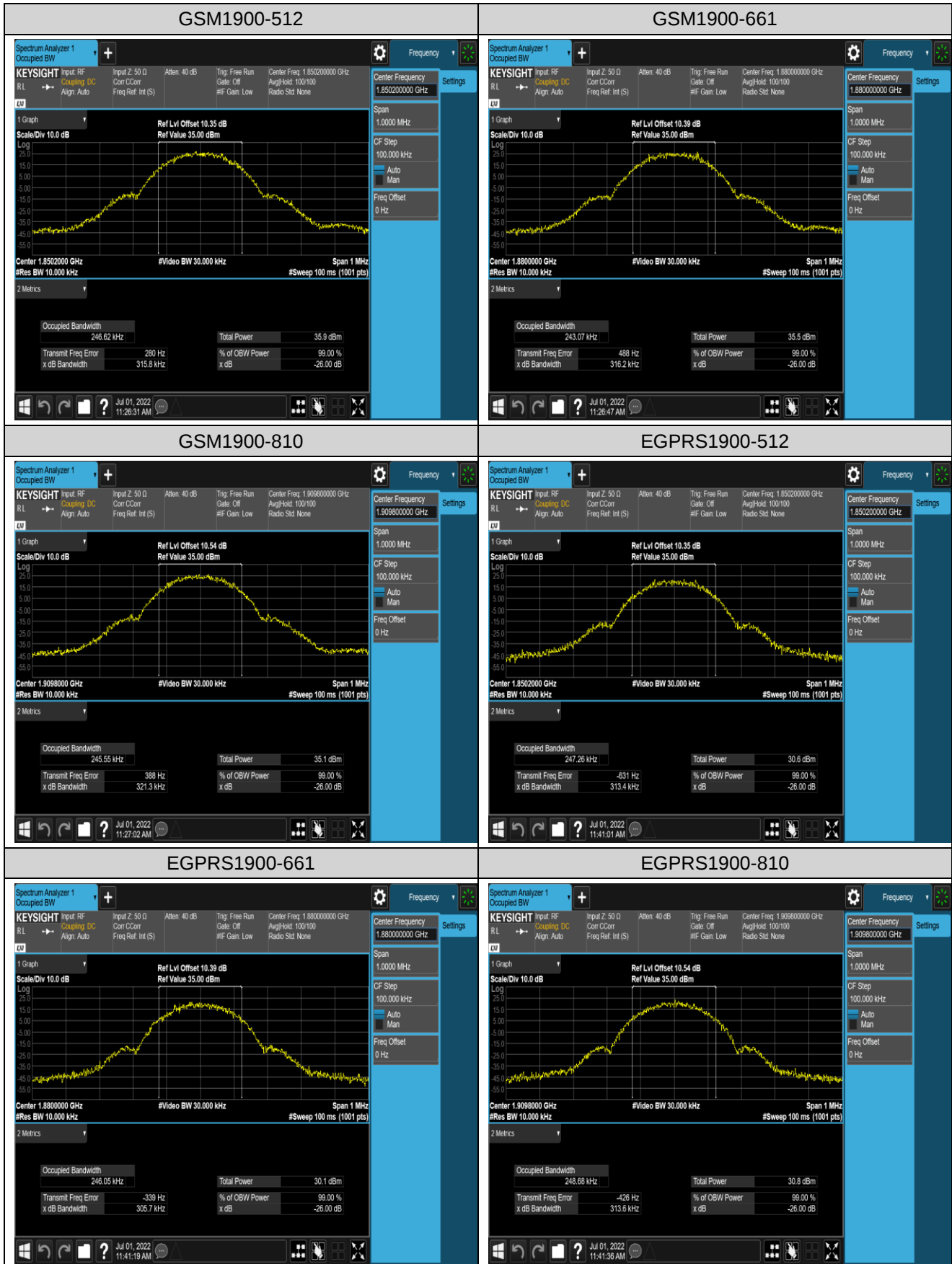


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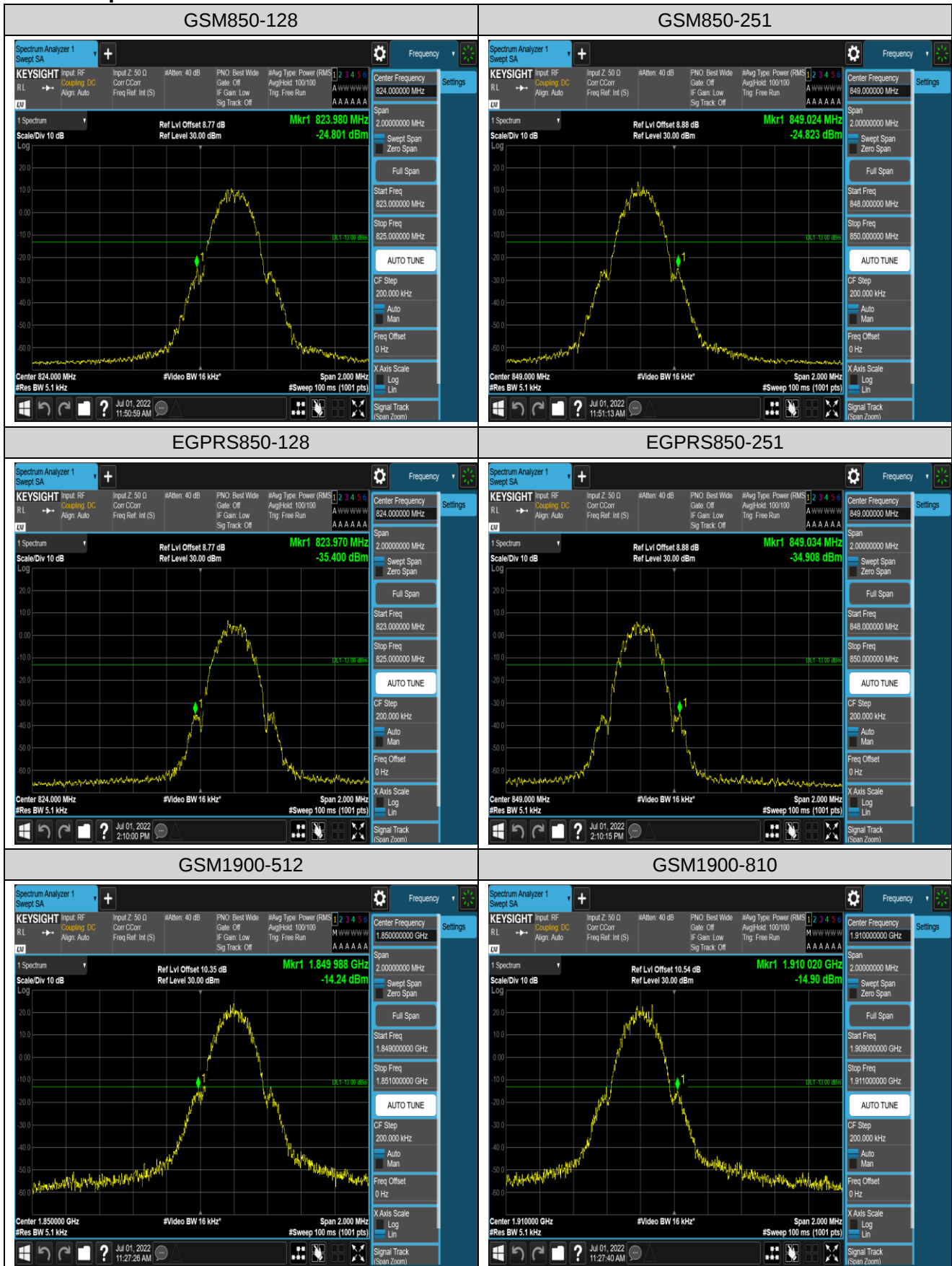


Appendix D: Band Edge

Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	5	823.98	-24.80	-13	PASS
GSM850	251	5	849.02	-24.82	-13	PASS
EGPRS850	128	8	823.97	-35.40	-13	PASS
EGPRS850	251	8	849.03	-34.91	-13	PASS
GSM1900	512	0	1849.99	-14.24	-13	PASS
GSM1900	810	0	1910.02	-14.90	-13	PASS
EGPRS1900	512	2	1849.99	-19.29	-13	PASS
EGPRS1900	810	2	1910.01	-22.33	-13	PASS

Test Graphs

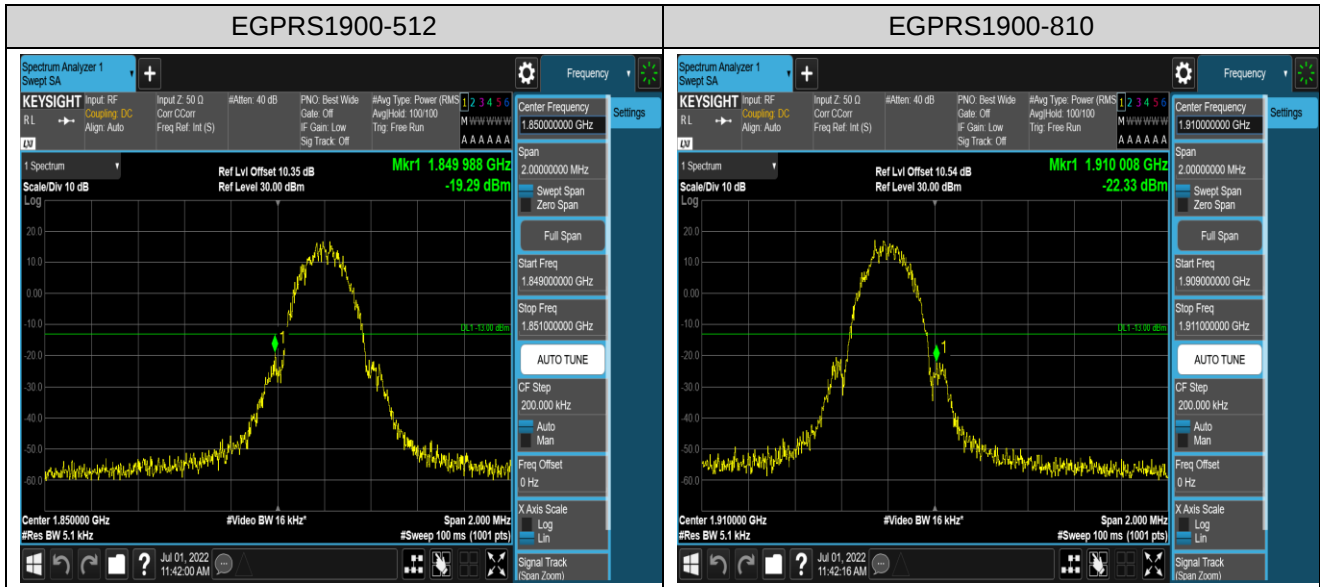


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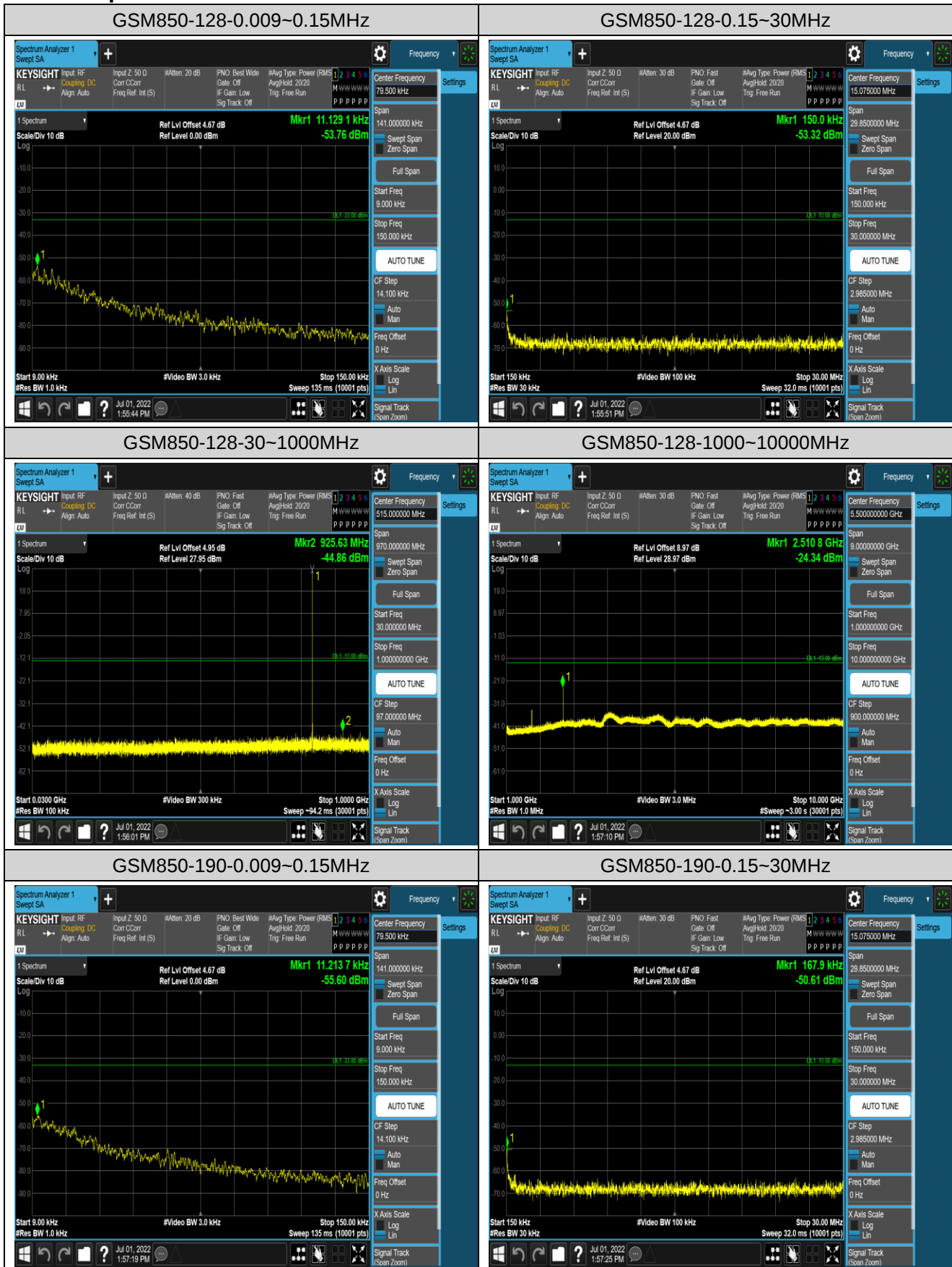
Appendix E: Conducted Spurious Emission

Test Result

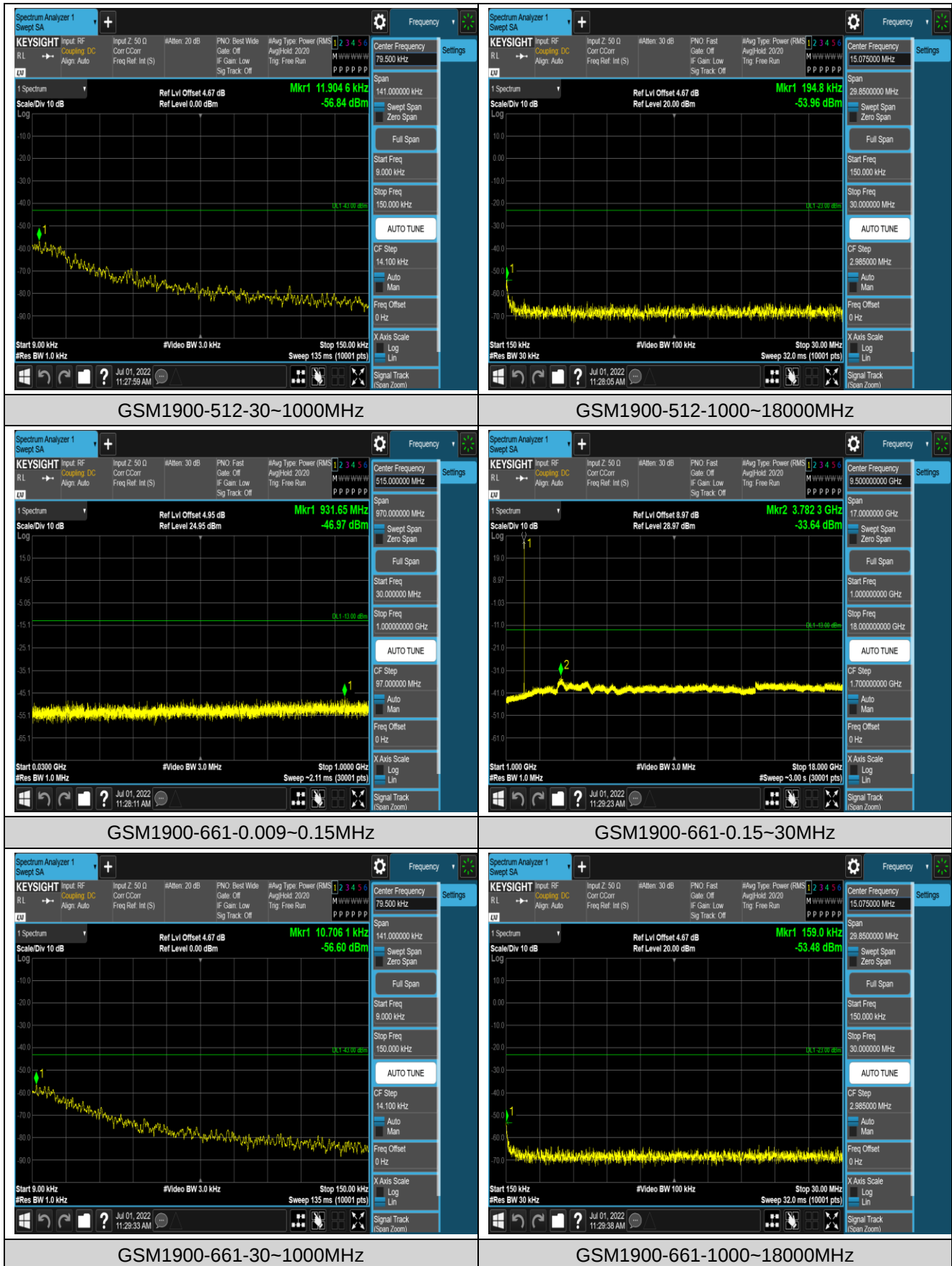
Band	Channel	PCL	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	5	0.009~0.15MHz	0.01	-53.77	-33	PASS
GSM850	128	5	0.15~30MHz	0.15	-53.32	-13	PASS
GSM850	128	5	30~1000MHz	925.63	-44.86	-13	PASS
GSM850	128	5	1000~10000MHz	2510.8	-24.34	-13	PASS
GSM850	190	5	0.009~0.15MHz	0.01	-55.6	-33	PASS
GSM850	190	5	0.15~30MHz	0.17	-50.61	-13	PASS
GSM850	190	5	30~1000MHz	982.09	-45.55	-13	PASS
GSM850	190	5	1000~10000MHz	2510.8	-24.44	-13	PASS
GSM850	251	5	0.009~0.15MHz	0.01	-52.82	-33	PASS
GSM850	251	5	0.15~30MHz	0.17	-53.58	-13	PASS
GSM850	251	5	30~1000MHz	977.3	-45.98	-13	PASS
GSM850	251	5	1000~10000MHz	2511.1	-24.53	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-56.84	-43	PASS
GSM1900	512	0	0.15~30MHz	0.19	-53.96	-23	PASS
GSM1900	512	0	30~1000MHz	931.65	-46.97	-13	PASS
GSM1900	512	0	1000~18000MHz	3782.33	-33.64	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-56.61	-43	PASS
GSM1900	661	0	0.15~30MHz	0.16	-53.48	-23	PASS
GSM1900	661	0	30~1000MHz	999.29	-47.48	-13	PASS
GSM1900	661	0	1000~18000MHz	3819.73	-34.42	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-56.73	-43	PASS
GSM1900	810	0	0.15~30MHz	0.16	-54.49	-23	PASS
GSM1900	810	0	30~1000MHz	677.67	-47.13	-13	PASS
GSM1900	810	0	1000~18000MHz	3812.37	-34.34	-13	PASS

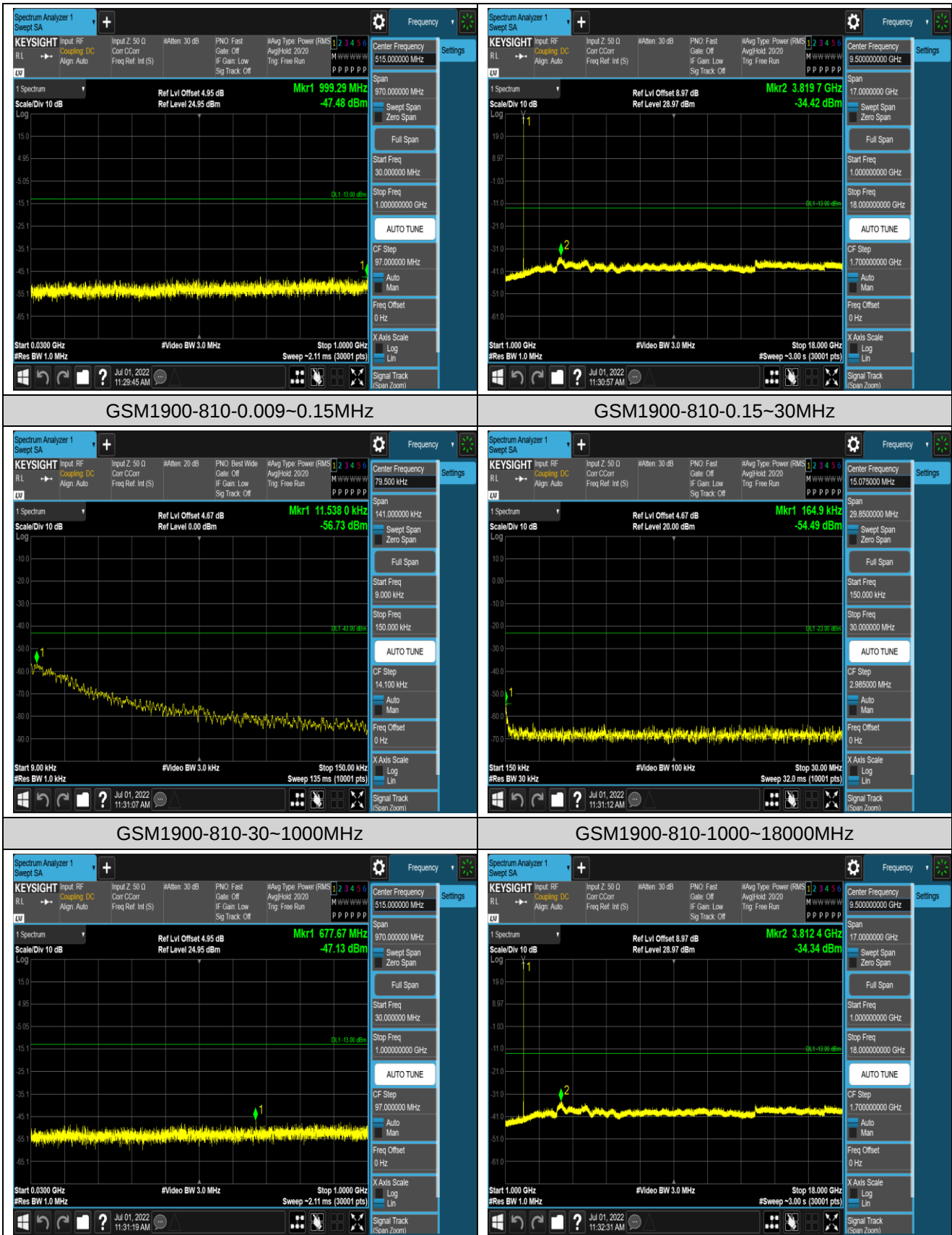
Remark: All channel and all modulation had been tested, but only the worst case data displayed in this report.

Test Graphs









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	-1.10	-0.001315	±2.5	Pass
	-20	1.26	0.001506		
	-10	-2.07	-0.002474		
	0	-1.10	-0.001315		
	10	-0.74	-0.000885		
	20	-3.58	-0.004279		
	30	-1.26	-0.001506		
	40	-0.68	-0.000813		
	50	-0.26	-0.000311		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	-0.61	-0.000729	±2.5	Pass
	3.87	-3.39	-0.004052		
	4.45	0.06	0.000072		
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	-4.10	-0.004901	±2.5	Pass
	-20	-6.30	-0.007530		
	-10	-7.23	-0.008642		
	0	-4.58	-0.005475		
	10	-4.52	-0.005403		
	20	-5.71	-0.006825		
	30	-4.94	-0.005905		
	40	-5.94	-0.007100		
	50	-9.04	-0.010806		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	-3.26	-0.003897	±2.5	Pass
	3.87	-5.91	-0.007064		
	4.45	-1.97	-0.002355		
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	13.53	0.007197	Within authorized band for PCS 1900	Pass
	-20	13.92	0.007404		
	-10	8.20	0.004362		
	0	3.20	0.001702		
	10	10.53	0.005601		
	20	4.52	0.002404		
	30	6.46	0.003436		
	40	6.04	0.003213		
	50	8.75	0.004654		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	-0.29	-0.000154	Within authorized band for PCS 1900	Pass
	3.87	-1.29	-0.000686		
	4.45	11.14	0.005926		
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	-12.20	-0.006489	Within authorized band for PCS 1900	Pass
	-20	-10.91	-0.005803		
	-10	-12.75	-0.006782		
	0	-8.59	-0.004569		
	10	-10.56	-0.005617		
	20	-14.63	-0.007782		
	30	-15.59	-0.008293		
	40	-11.17	-0.005941		
	50	-8.17	-0.004346		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	-17.79	-0.009463	Within authorized band for PCS 1900	Pass
	3.87	-18.18	-0.009670		
	4.45	-18.24	-0.009702		
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

