

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	32.93	26.59	38.45	PASS
GSM850	190	5	33.19	26.85	38.45	PASS
GSM850	251	5	33.17	26.83	38.45	PASS
GSM1900	512	0	29.54	30.61	33.00	PASS
GSM1900	661	0	29.68	30.75	33.00	PASS
GSM1900	810	0	29.56	30.63	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	5	1	32.91	26.57	38.45	PASS
GPRS850	128	5	2	31.90	25.56	38.45	PASS
GPRS850	128	5	3	29.89	23.55	38.45	PASS
GPRS850	128	5	4	28.58	22.24	38.45	PASS
GPRS850	190	5	1	33.15	26.81	38.45	PASS
GPRS850	190	5	2	32.15	25.81	38.45	PASS
GPRS850	190	5	3	30.17	23.83	38.45	PASS
GPRS850	190	5	4	28.92	22.58	38.45	PASS
GPRS850	251	5	1	33.11	26.77	38.45	PASS
GPRS850	251	5	2	32.12	25.78	38.45	PASS
GPRS850	251	5	3	30.16	23.82	38.45	PASS
GPRS850	251	5	4	28.88	22.54	38.45	PASS
GPRS1900	512	0	1	29.53	30.6	33.00	PASS
GPRS1900	512	0	2	28.34	29.41	33.00	PASS
GPRS1900	512	0	3	26.40	27.47	33.00	PASS
GPRS1900	512	0	4	25.48	26.55	33.00	PASS
GPRS1900	661	0	1	29.66	30.73	33.00	PASS
GPRS1900	661	0	2	28.48	29.55	33.00	PASS
GPRS1900	661	0	3	26.53	27.6	33.00	PASS
GPRS1900	661	0	4	25.60	26.67	33.00	PASS
GPRS1900	810	0	1	29.53	30.6	33.00	PASS
GPRS1900	810	0	2	28.34	29.41	33.00	PASS
GPRS1900	810	0	3	26.36	27.43	33.00	PASS
GPRS1900	810	0	4	25.43	26.5	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
EGPRS850	128	8	1	27.83	21.49	38.45	PASS
EGPRS850	128	8	2	26.52	20.18	38.45	PASS
EGPRS850	128	8	3	24.27	17.93	38.45	PASS
EGPRS850	128	8	4	22.78	16.44	38.45	PASS
EGPRS850	190	8	1	28.00	21.66	38.45	PASS
EGPRS850	190	8	2	26.71	20.37	38.45	PASS
EGPRS850	190	8	3	24.50	18.16	38.45	PASS
EGPRS850	190	8	4	23.00	16.66	38.45	PASS
EGPRS850	251	8	1	28.09	21.75	38.45	PASS
EGPRS850	251	8	2	26.79	20.45	38.45	PASS
EGPRS850	251	8	3	24.58	18.24	38.45	PASS
EGPRS850	251	8	4	23.05	16.71	38.45	PASS
EGPRS1900	512	2	1	26.49	27.56	33.00	PASS
EGPRS1900	512	2	2	25.24	26.31	33.00	PASS
EGPRS1900	512	2	3	22.95	24.02	33.00	PASS
EGPRS1900	512	2	4	21.55	22.62	33.00	PASS
EGPRS1900	661	2	1	26.35	27.42	33.00	PASS
EGPRS1900	661	2	2	25.12	26.19	33.00	PASS
EGPRS1900	661	2	3	22.81	23.88	33.00	PASS
EGPRS1900	661	2	4	21.38	22.45	33.00	PASS
EGPRS1900	810	2	1	26.39	27.46	33.00	PASS
EGPRS1900	810	2	2	25.10	26.17	33.00	PASS
EGPRS1900	810	2	3	22.85	23.92	33.00	PASS
EGPRS1900	810	2	4	21.38	22.45	33.00	PASS

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

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

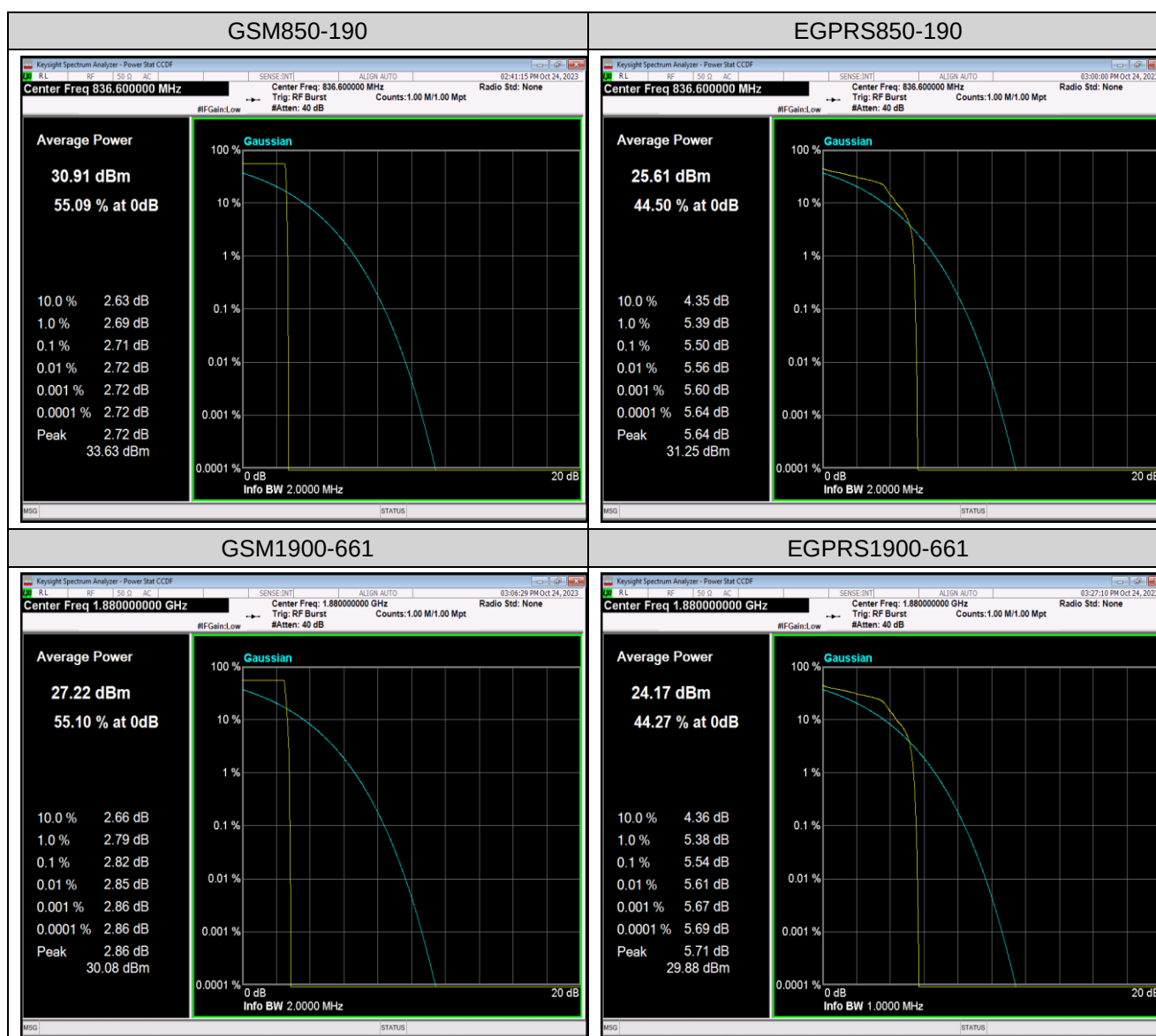
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	PCL	Result(dB)	Limit(dB)	Verdict
GSM850	190	5	2.71	13	PASS
EGPRS850	190	8	5.5	13	PASS
GSM1900	661	0	2.82	13	PASS
EGPRS1900	661	2	5.54	13	PASS

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

Test Graphs

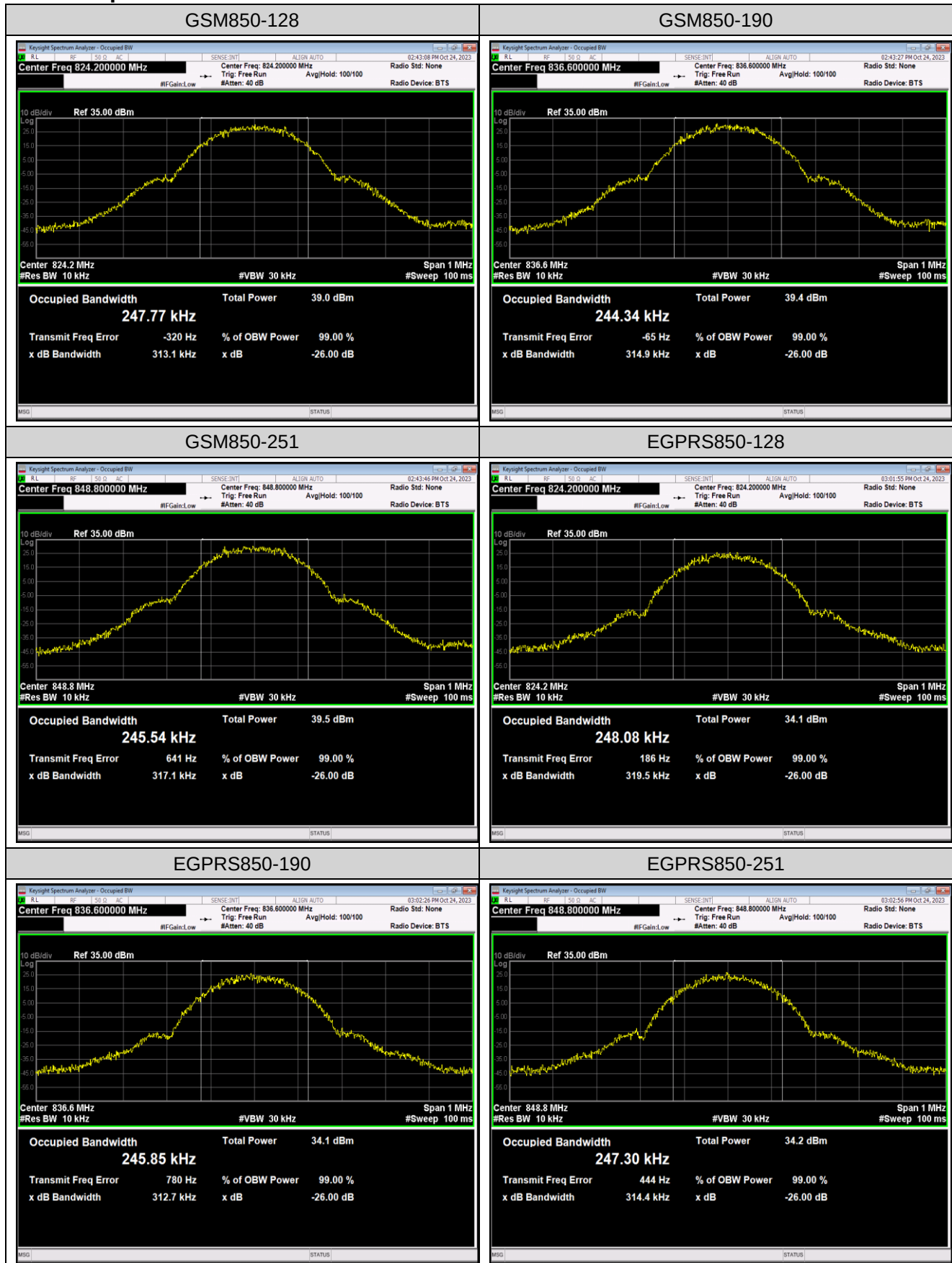


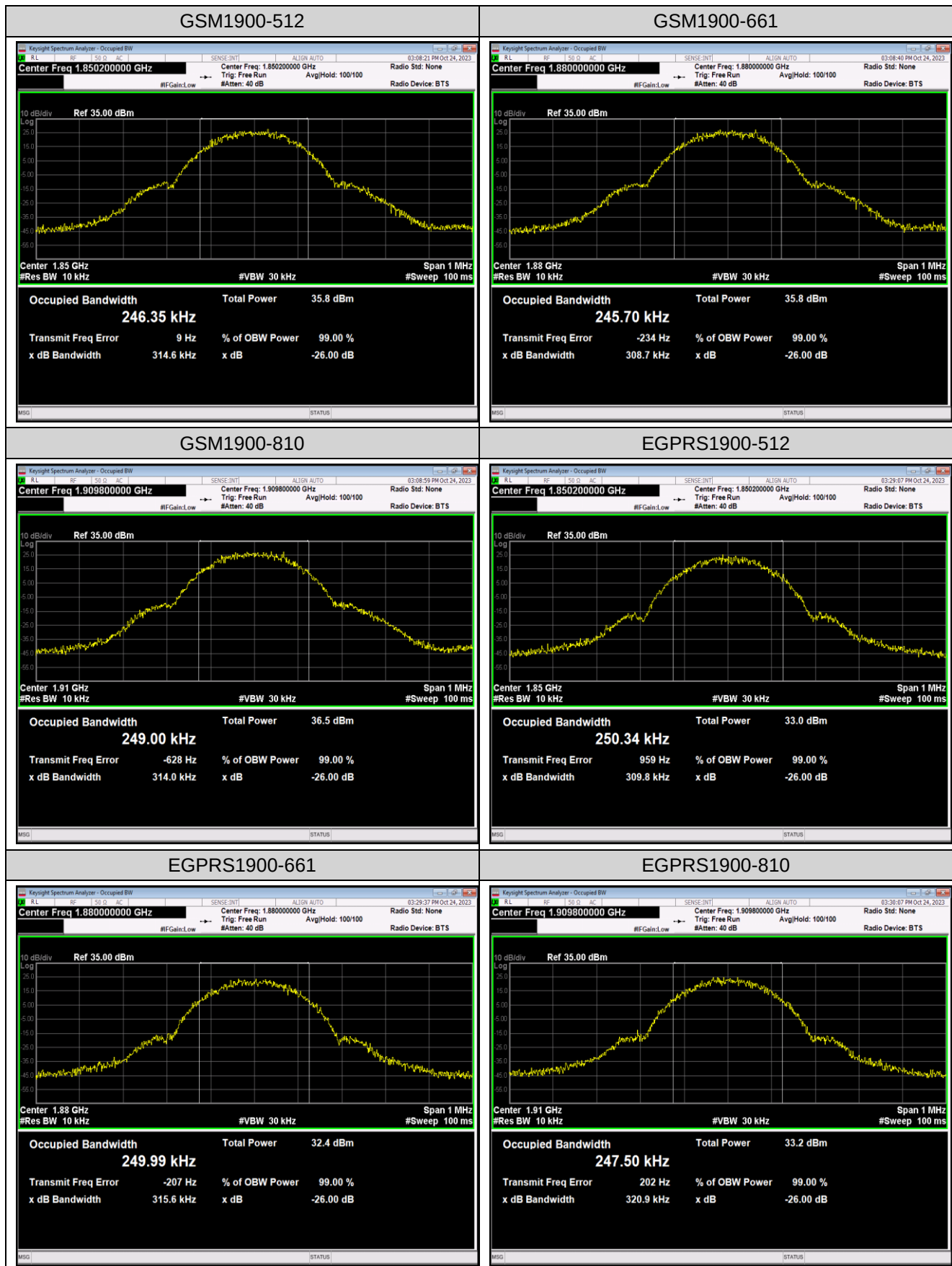
Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	5	0.24777	0.3131	---	PASS
GSM850	190	5	0.24434	0.3149	---	PASS
GSM850	251	5	0.24554	0.3171	---	PASS
EGPRS850	128	8	0.24808	0.3195	---	PASS
EGPRS850	190	8	0.24585	0.3127	---	PASS
EGPRS850	251	8	0.24730	0.3144	---	PASS
GSM1900	512	0	0.24635	0.3146	---	PASS
GSM1900	661	0	0.24570	0.3087	---	PASS
GSM1900	810	0	0.24900	0.3140	---	PASS
EGPRS1900	512	2	0.25034	0.3098	---	PASS
EGPRS1900	661	2	0.24999	0.3156	---	PASS
EGPRS1900	810	2	0.24750	0.3209	---	PASS

Test Graphs



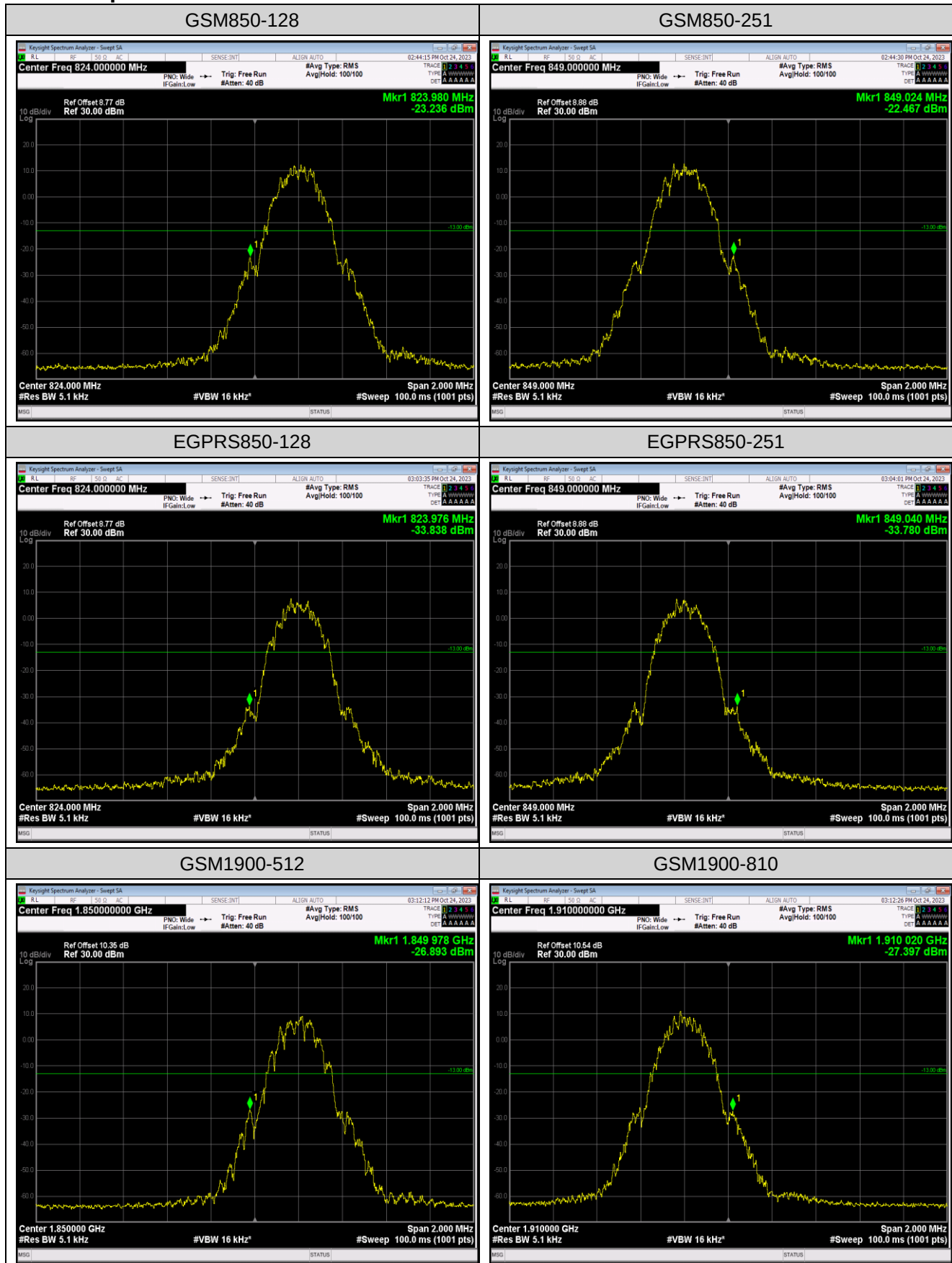


Appendix D: Band Edge

Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	5	823.98	-23.24	-13	PASS
GSM850	251	5	849.02	-22.47	-13	PASS
EGPRS850	128	8	823.98	-33.84	-13	PASS
EGPRS850	251	8	849.04	-33.78	-13	PASS
GSM1900	512	0	1849.98	-26.89	-13	PASS
GSM1900	810	0	1910.02	-27.40	-13	PASS
EGPRS1900	512	2	1849.98	-20.33	-13	PASS
EGPRS1900	810	2	1910.02	-21.01	-13	PASS

Test Graphs

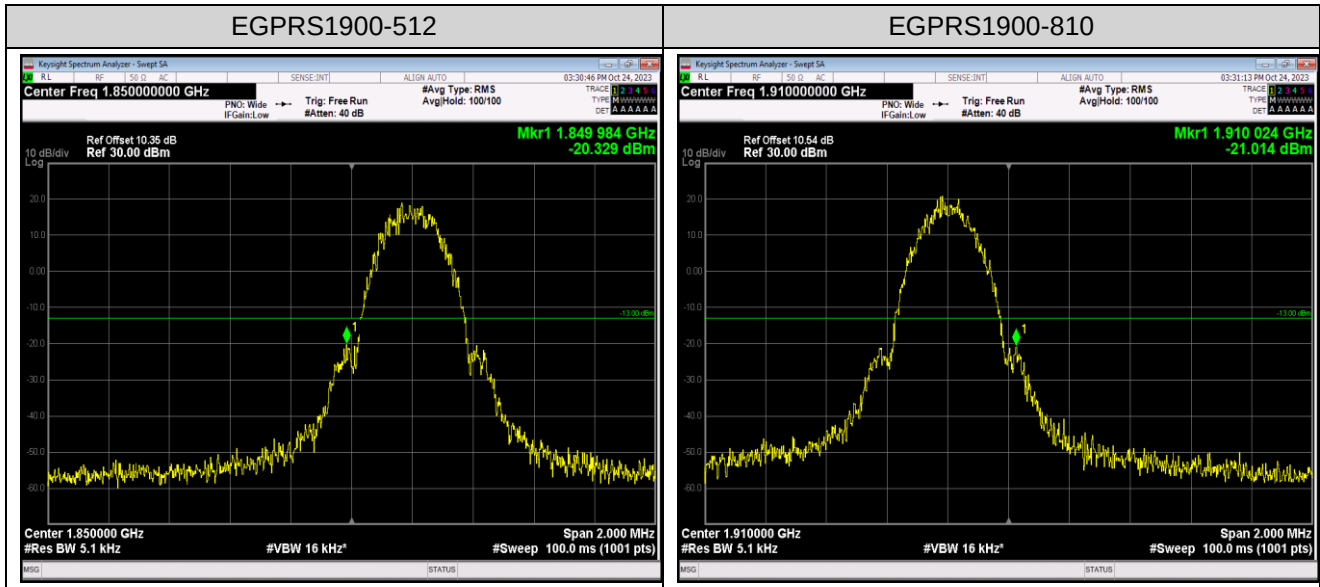


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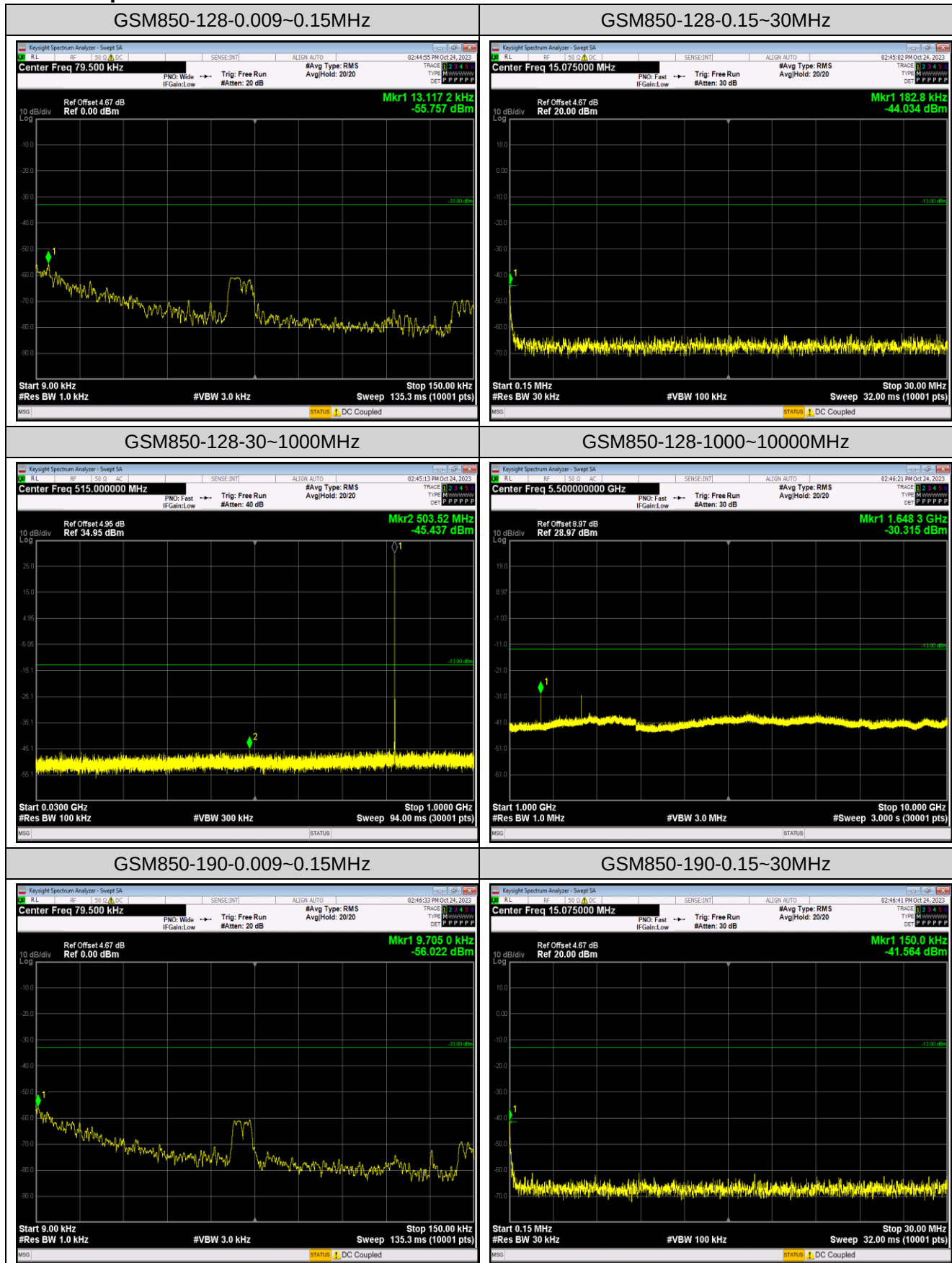
Appendix E: Conducted Spurious Emission

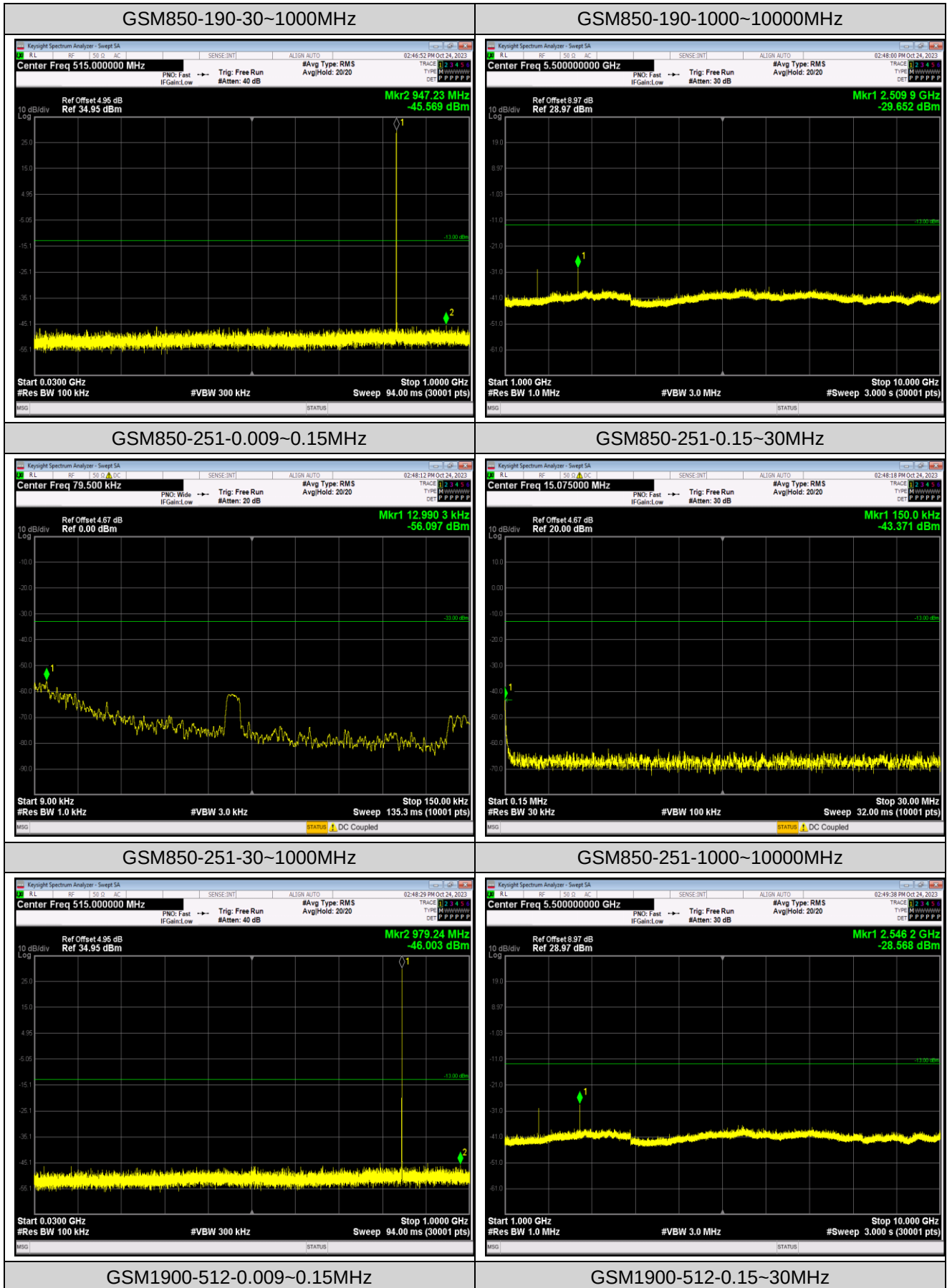
Test Result

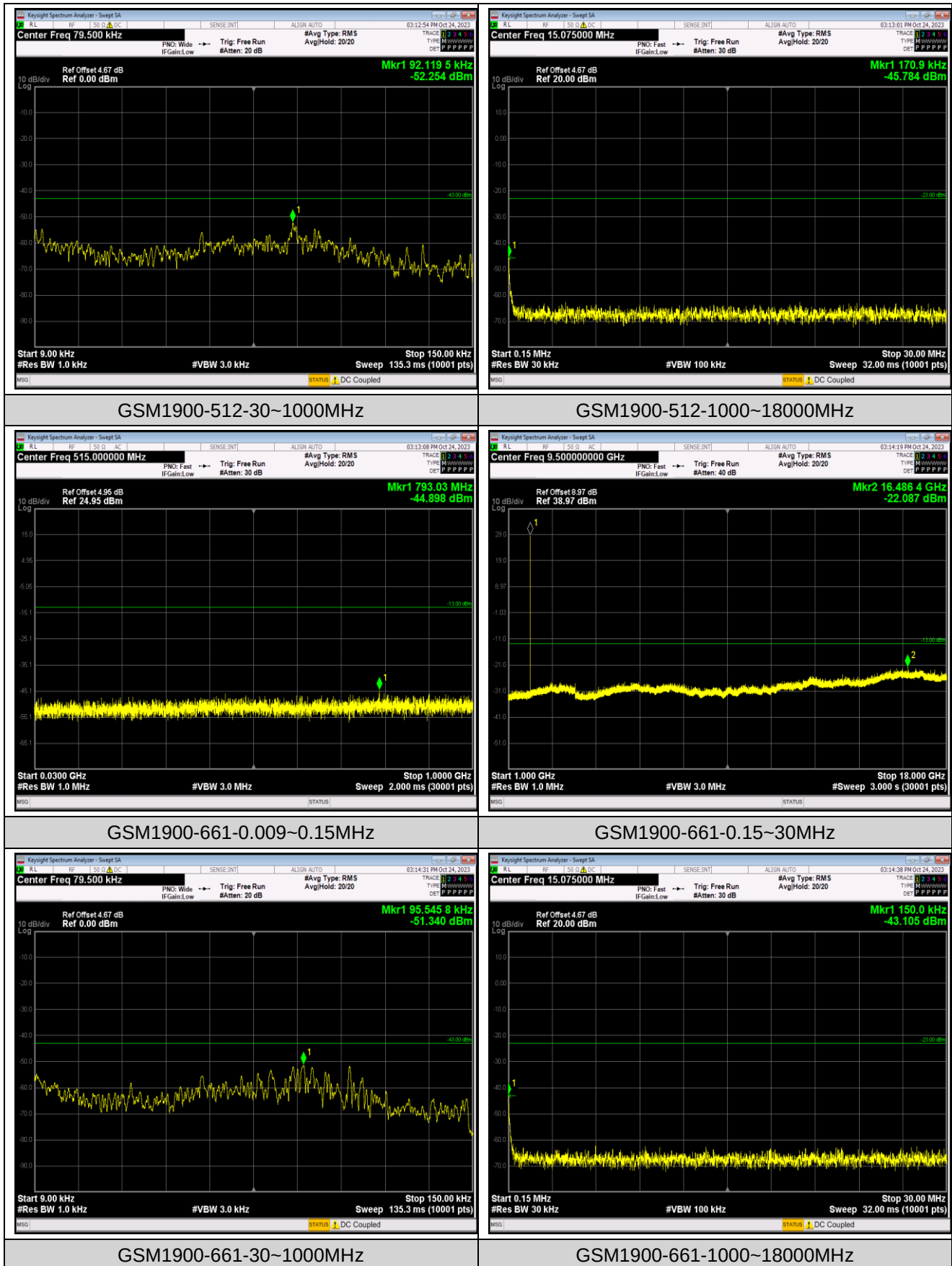
Band	Channel	PCL	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	5	0.009~0.15MHz	0.01	-55.76	-33	PASS
GSM850	128	5	0.15~30MHz	0.18	-44.03	-13	PASS
GSM850	128	5	30~1000MHz	503.52	-45.44	-13	PASS
GSM850	128	5	1000~10000MHz	1648.3	-30.32	-13	PASS
GSM850	190	5	0.009~0.15MHz	0.01	-56.02	-33	PASS
GSM850	190	5	0.15~30MHz	0.15	-41.56	-13	PASS
GSM850	190	5	30~1000MHz	947.23	-45.57	-13	PASS
GSM850	190	5	1000~10000MHz	2509.9	-29.65	-13	PASS
GSM850	251	5	0.009~0.15MHz	0.01	-56.1	-33	PASS
GSM850	251	5	0.15~30MHz	0.15	-43.37	-13	PASS
GSM850	251	5	30~1000MHz	979.24	-46	-13	PASS
GSM850	251	5	1000~10000MHz	2546.2	-28.57	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.09	-52.25	-43	PASS
GSM1900	512	0	0.15~30MHz	0.17	-45.78	-23	PASS
GSM1900	512	0	30~1000MHz	793.03	-44.9	-13	PASS
GSM1900	512	0	1000~18000MHz	16486.43	-22.09	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.1	-51.34	-43	PASS
GSM1900	661	0	0.15~30MHz	0.15	-43.11	-23	PASS
GSM1900	661	0	30~1000MHz	943.03	-44.69	-13	PASS
GSM1900	661	0	1000~18000MHz	16506.83	-22.32	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.09	-49.32	-43	PASS
GSM1900	810	0	0.15~30MHz	0.16	-42.67	-23	PASS
GSM1900	810	0	30~1000MHz	825.04	-45.71	-13	PASS
GSM1900	810	0	1000~18000MHz	16293.77	-22	-13	PASS

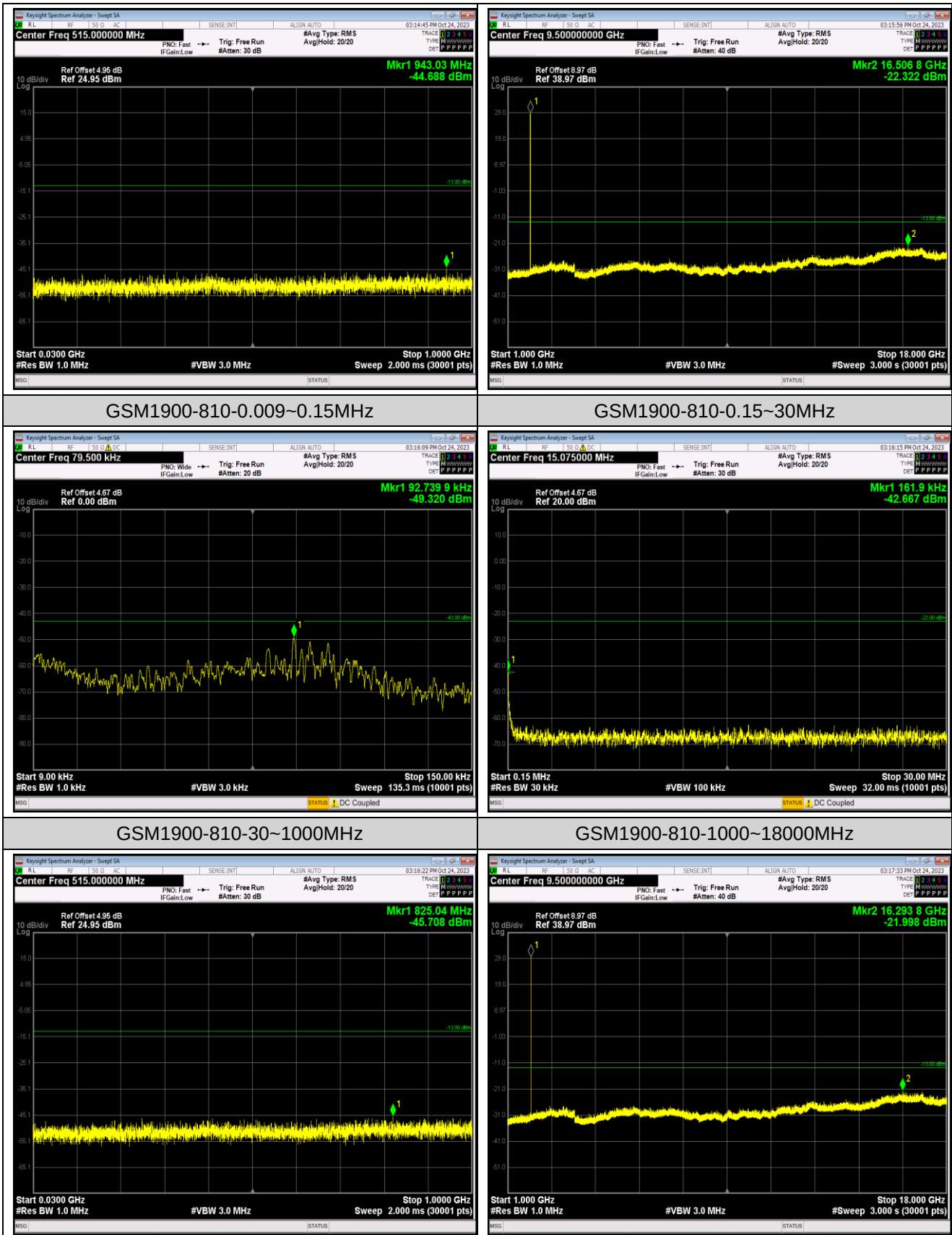
Remark: All channel and all modulation had been tested, but only the worst case data displayed in this report.

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		
3.85	-30	5.36	0.006407	±2.5	Pass
	-20	11.53	0.013782		
	-10	11.40	0.013627		
	0	8.68	0.010375		
	10	7.10	0.008487		
	20	12.11	0.014475		
	30	8.14	0.009730		
	40	10.11	0.012085		
	50	8.56	0.010232		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	10.72	0.012814	±2.5	Pass
	3.85	8.14	0.009730		
	4.40	2.87	0.003431		
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		
3.85	-30	5.52	0.006598	±2.5	Pass
	-20	9.40	0.011236		
	-10	8.46	0.010112		
	0	7.81	0.009335		
	10	15.01	0.017942		
	20	18.73	0.022388		
	30	18.47	0.022077		
	40	17.43	0.020834		
	50	16.95	0.020261		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	8.88	0.010614	±2.5	Pass
	3.85	8.52	0.010184		
	4.40	7.39	0.008833		
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		
3.85	-30	24.05	0.012793	Within authorized band for PCS 1900	Pass
	-20	22.86	0.012160		
	-10	11.72	0.006234		
	0	17.89	0.009516		
	10	24.99	0.013293		
	20	14.46	0.007691		
	30	15.37	0.008176		
	40	17.60	0.009362		
	50	12.01	0.006388		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	19.34	0.010287	Within authorized band for PCS 1900	Pass
	3.85	23.76	0.012638		
	4.40	17.72	0.009426		
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		
3.85	-30	28.99	0.015420	Within authorized band for PCS 1900	Pass
	-20	25.02	0.013309		
	-10	29.12	0.015489		
	0	24.89	0.013239		
	10	28.31	0.015059		
	20	39.68	0.021106		
	30	40.68	0.021638		
	40	43.13	0.022941		
	50	43.75	0.023271		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	24.34	0.012947	Within authorized band for PCS 1900	Pass
	3.85	27.28	0.014511		
	4.40	27.70	0.014734		
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

