

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	33.65	28.5	38.45	PASS
GSM850	190	5	33.83	28.68	38.45	PASS
GSM850	251	5	33.67	28.52	38.45	PASS
GSM1900	512	0	30.71	29.01	33.00	PASS
GSM1900	661	0	30.82	29.12	33.00	PASS
GSM1900	810	0	30.73	29.03	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	5	1	33.68	28.53	38.45	PASS
GPRS850	128	5	2	32.47	27.32	38.45	PASS
GPRS850	128	5	3	30.13	24.98	38.45	PASS
GPRS850	128	5	4	28.82	23.67	38.45	PASS
GPRS850	190	5	1	33.81	28.66	38.45	PASS
GPRS850	190	5	2	32.59	27.44	38.45	PASS
GPRS850	190	5	3	30.23	25.08	38.45	PASS
GPRS850	190	5	4	28.96	23.81	38.45	PASS
GPRS850	251	5	1	33.66	28.51	38.45	PASS
GPRS850	251	5	2	32.46	27.31	38.45	PASS
GPRS850	251	5	3	30.08	24.93	38.45	PASS
GPRS850	251	5	4	28.79	23.64	38.45	PASS
GPRS1900	512	0	1	30.69	28.99	33.00	PASS
GPRS1900	512	0	2	29.43	27.73	33.00	PASS
GPRS1900	512	0	3	27.13	25.43	33.00	PASS
GPRS1900	512	0	4	25.84	24.14	33.00	PASS
GPRS1900	661	0	1	30.77	29.07	33.00	PASS
GPRS1900	661	0	2	29.52	27.82	33.00	PASS
GPRS1900	661	0	3	27.21	25.51	33.00	PASS
GPRS1900	661	0	4	25.92	24.22	33.00	PASS
GPRS1900	810	0	1	30.68	28.98	33.00	PASS
GPRS1900	810	0	2	29.40	27.7	33.00	PASS
GPRS1900	810	0	3	27.11	25.41	33.00	PASS
GPRS1900	810	0	4	25.85	24.15	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
EGPRS850	128	8	1	27.90	22.75	38.45	PASS
EGPRS850	128	8	2	26.82	21.67	38.45	PASS
EGPRS850	128	8	3	24.71	19.56	38.45	PASS
EGPRS850	128	8	4	23.66	18.51	38.45	PASS
EGPRS850	190	8	1	27.86	22.71	38.45	PASS
EGPRS850	190	8	2	26.81	21.66	38.45	PASS
EGPRS850	190	8	3	24.62	19.47	38.45	PASS
EGPRS850	190	8	4	23.53	18.38	38.45	PASS
EGPRS850	251	8	1	27.92	22.77	38.45	PASS
EGPRS850	251	8	2	26.82	21.67	38.45	PASS
EGPRS850	251	8	3	24.71	19.56	38.45	PASS
EGPRS850	251	8	4	23.60	18.45	38.45	PASS
EGPRS1900	512	2	1	27.04	25.34	33.00	PASS
EGPRS1900	512	2	2	25.97	24.27	33.00	PASS
EGPRS1900	512	2	3	23.77	22.07	33.00	PASS
EGPRS1900	512	2	4	22.58	20.88	33.00	PASS
EGPRS1900	661	2	1	27.16	25.46	33.00	PASS
EGPRS1900	661	2	2	26.02	24.32	33.00	PASS
EGPRS1900	661	2	3	23.85	22.15	33.00	PASS
EGPRS1900	661	2	4	22.70	21	33.00	PASS
EGPRS1900	810	2	1	27.19	25.49	33.00	PASS
EGPRS1900	810	2	2	26.08	24.38	33.00	PASS
EGPRS1900	810	2	3	23.89	22.19	33.00	PASS
EGPRS1900	810	2	4	22.67	20.97	33.00	PASS

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

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

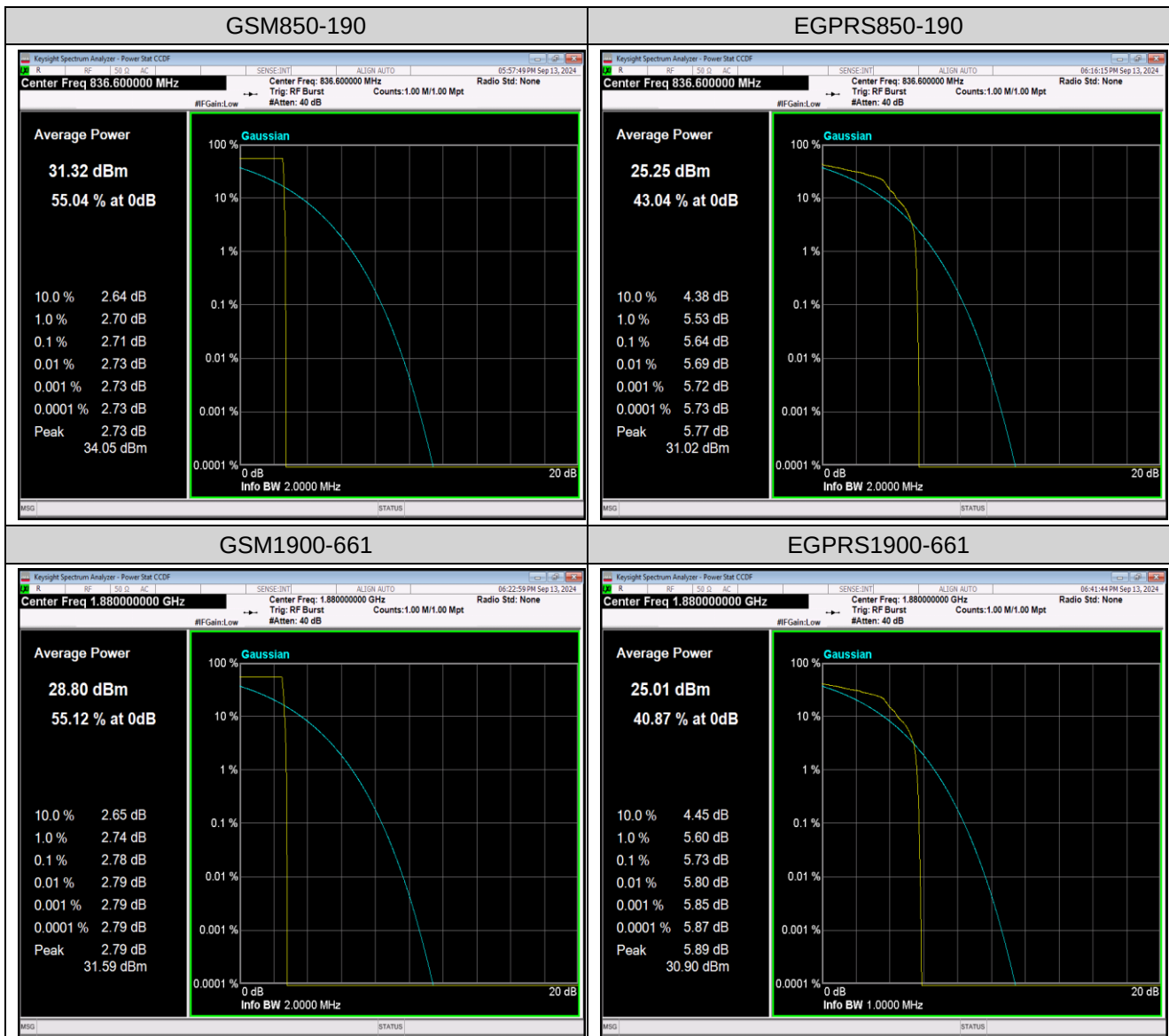
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	PCL	Result(dB)	Limit(dB)	Verdict
GSM850	190	5	2.71	13	PASS
EGPRS850	190	8	5.64	13	PASS
GSM1900	661	0	2.78	13	PASS
EGPRS1900	661	2	5.73	13	PASS

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

Test Graphs

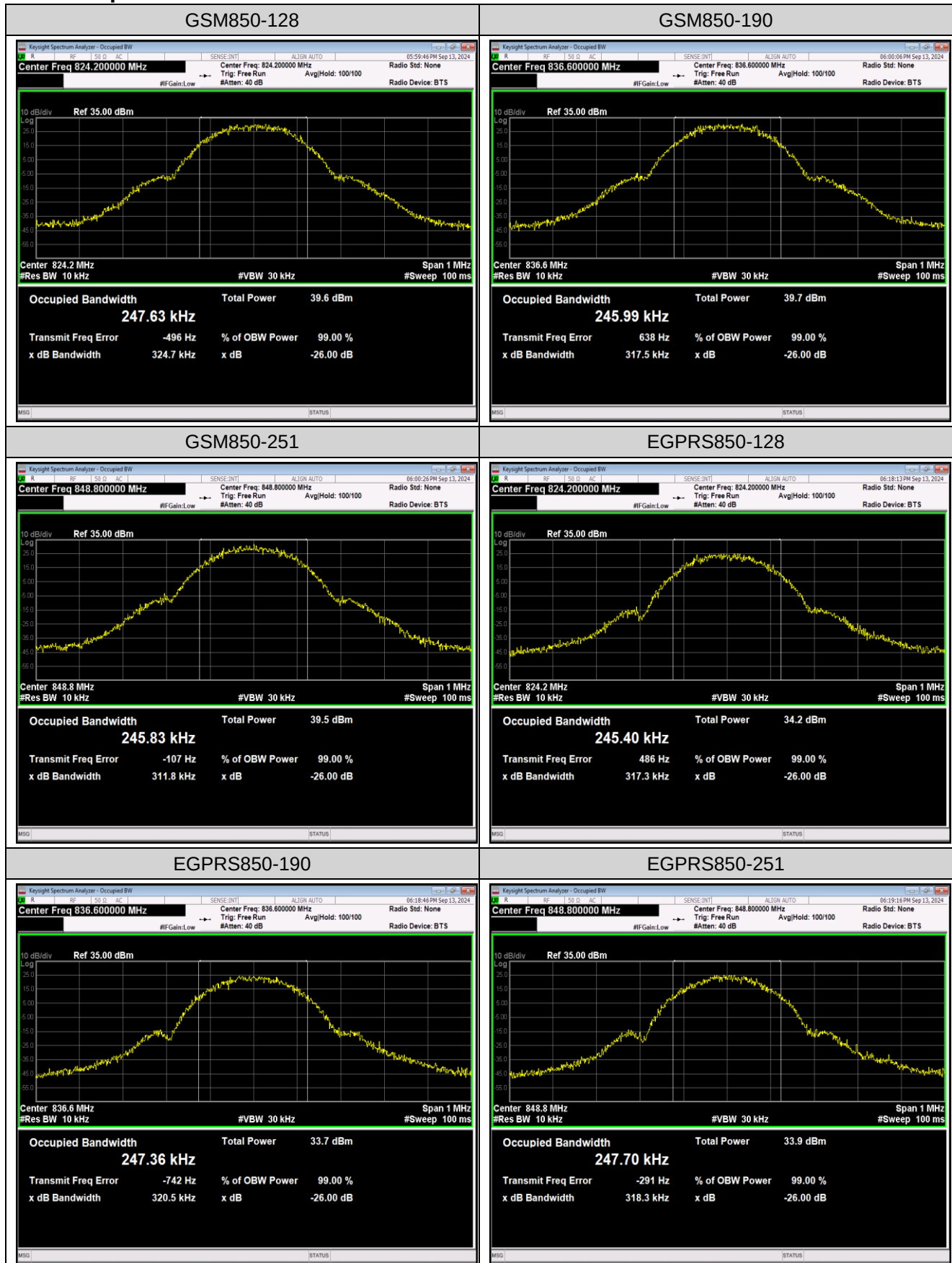


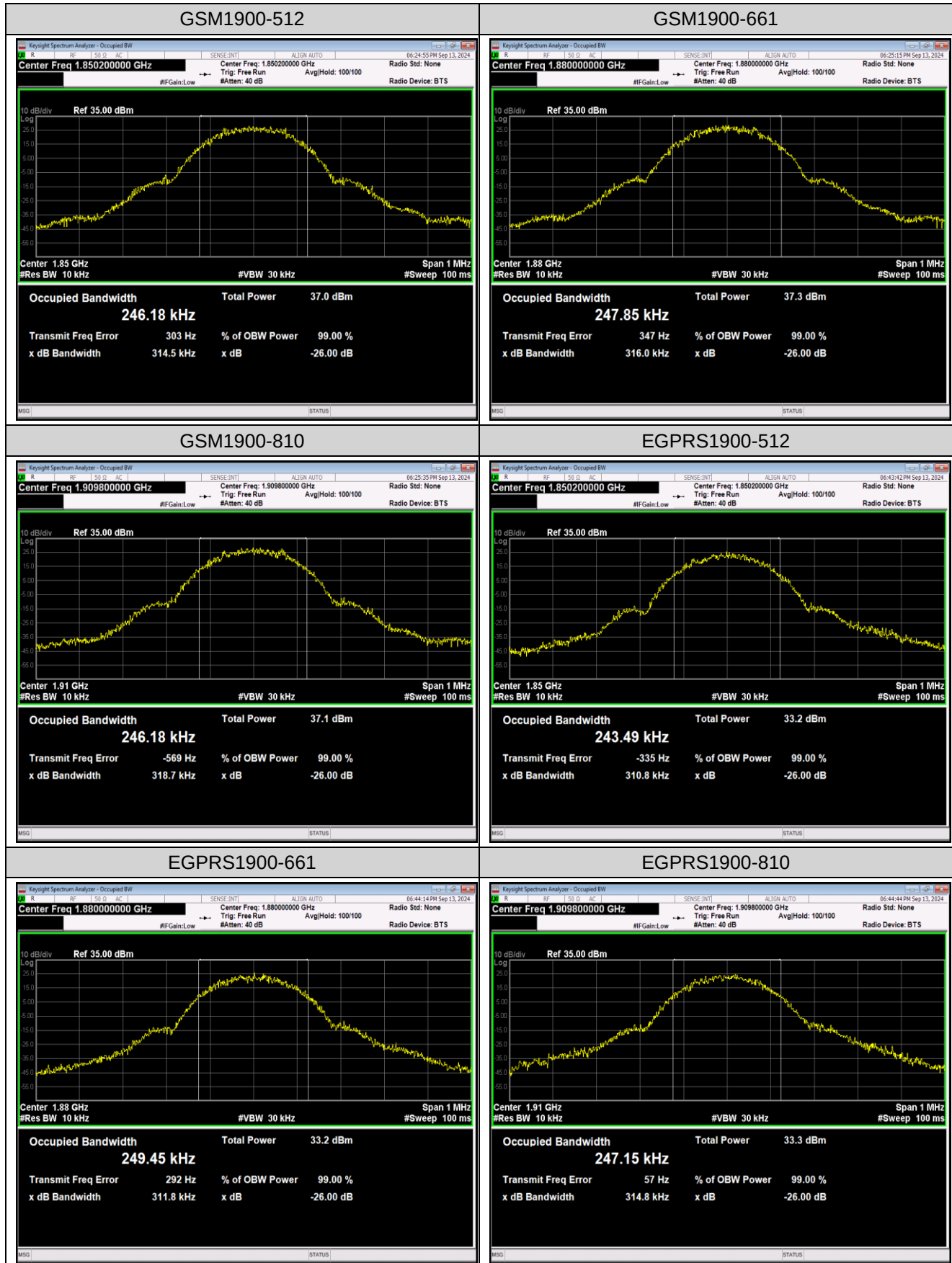
Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	5	0.24763	0.3247	---	PASS
GSM850	190	5	0.24599	0.3175	---	PASS
GSM850	251	5	0.24583	0.3118	---	PASS
EGPRS850	128	8	0.24540	0.3173	---	PASS
EGPRS850	190	8	0.24736	0.3205	---	PASS
EGPRS850	251	8	0.24770	0.3183	---	PASS
GSM1900	512	0	0.24618	0.3145	---	PASS
GSM1900	661	0	0.24785	0.3160	---	PASS
GSM1900	810	0	0.24618	0.3187	---	PASS
EGPRS1900	512	2	0.24349	0.3108	---	PASS
EGPRS1900	661	2	0.24945	0.3118	---	PASS
EGPRS1900	810	2	0.24715	0.3148	---	PASS

Test Graphs



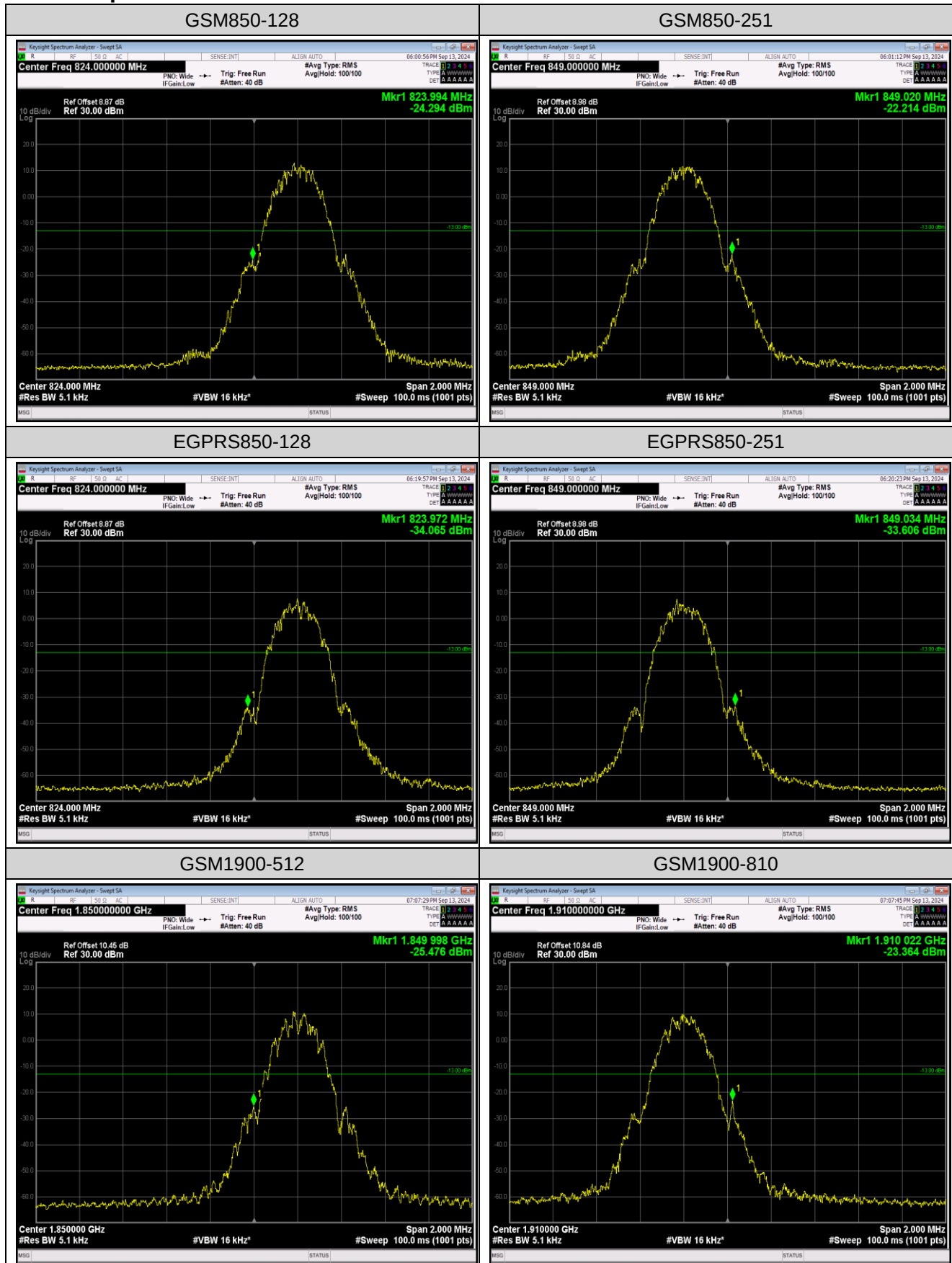


Appendix D: Band Edge

Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	5	823.99	-24.29	-13	PASS
GSM850	251	5	849.02	-22.21	-13	PASS
EGPRS850	128	8	823.97	-34.06	-13	PASS
EGPRS850	251	8	849.03	-33.61	-13	PASS
GSM1900	512	0	1850.00	-25.48	-13	PASS
GSM1900	810	0	1910.02	-23.36	-13	PASS
EGPRS1900	512	2	1849.97	-16.69	-13	PASS
EGPRS1900	810	2	1910.02	-14.79	-13	PASS

Test Graphs

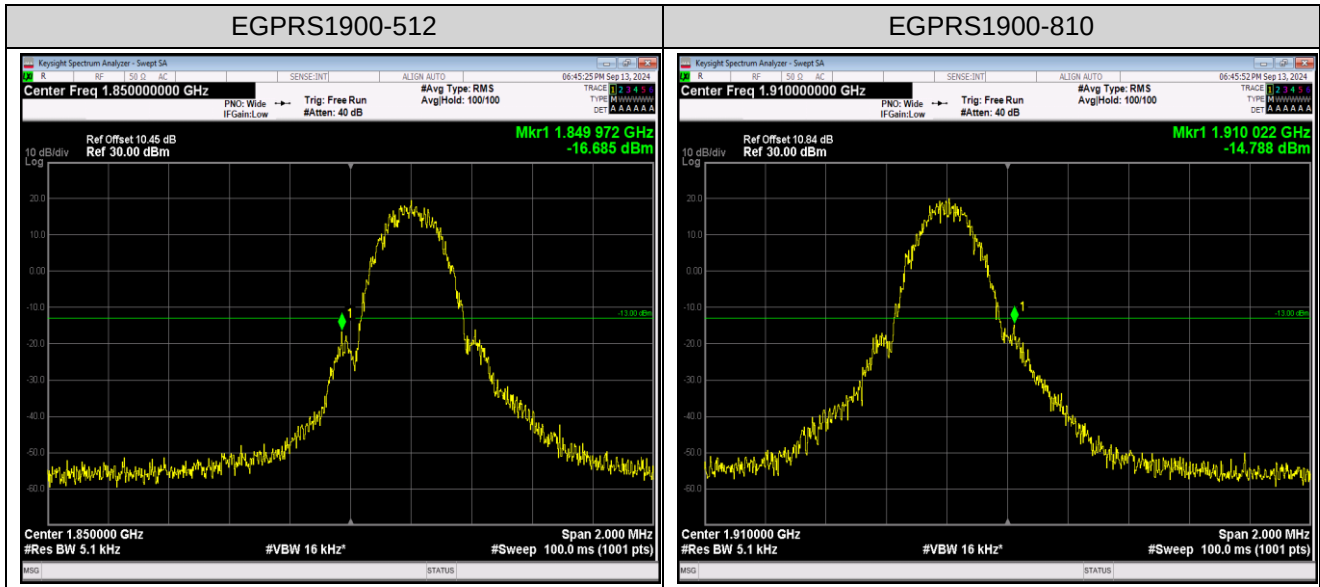


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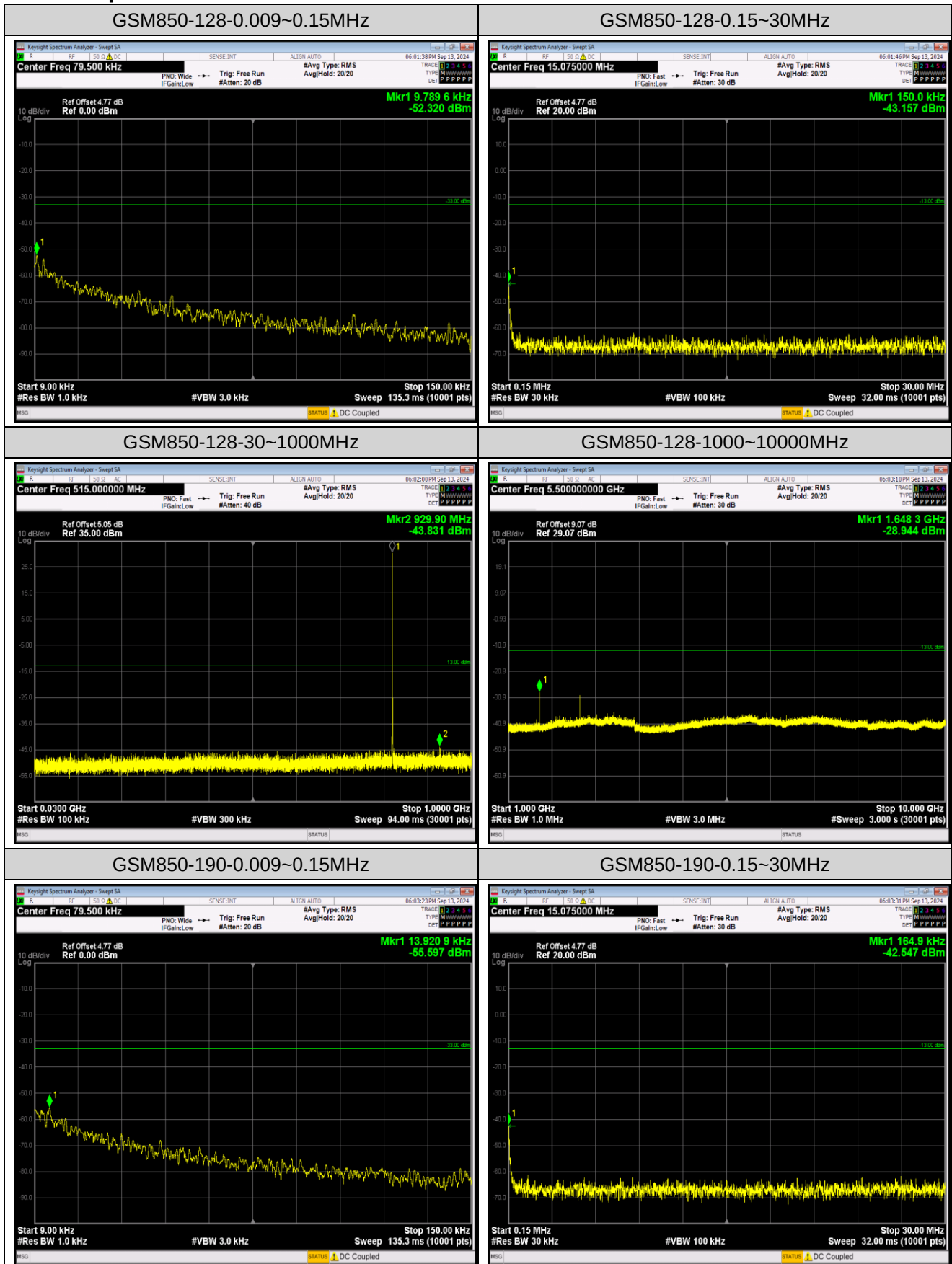
Appendix E: Conducted Spurious Emission

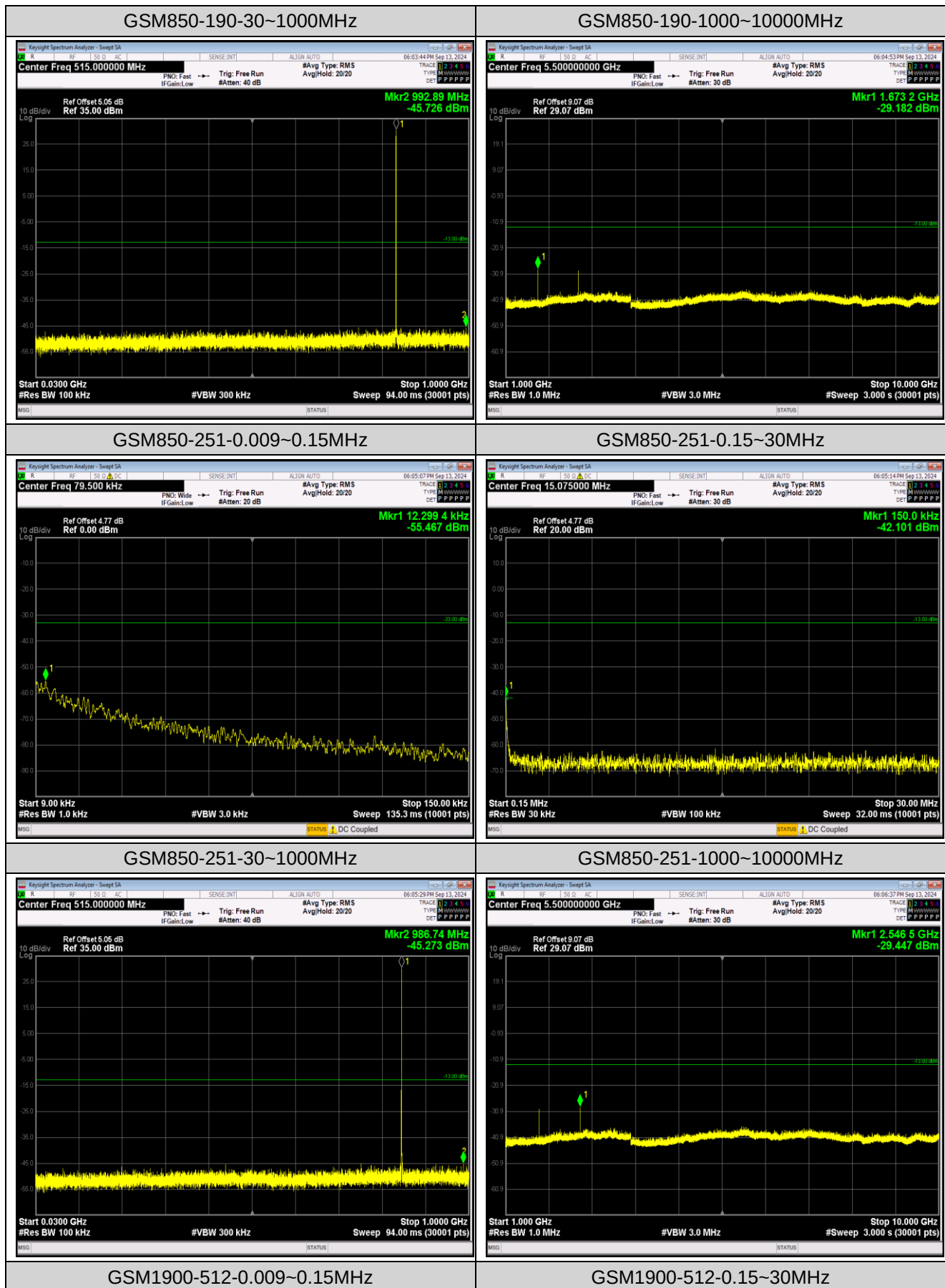
Test Result

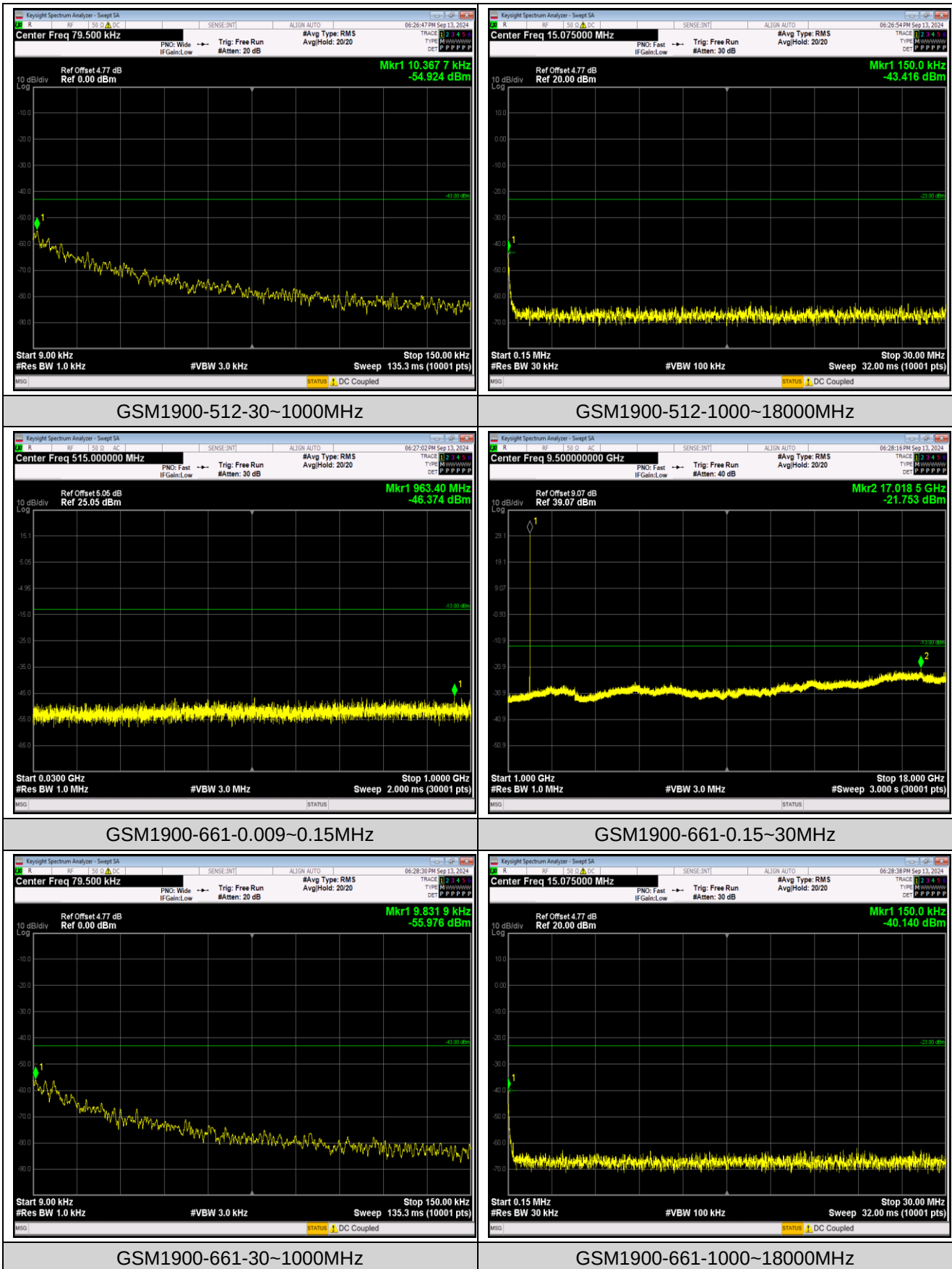
Band	Channel	PCL	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	5	0.009~0.15MHz	0.01	-52.32	-33	PASS
GSM850	128	5	0.15~30MHz	0.15	-43.16	-13	PASS
GSM850	128	5	30~1000MHz	929.9	-43.83	-13	PASS
GSM850	128	5	1000~10000MHz	1648.3	-28.94	-13	PASS
GSM850	190	5	0.009~0.15MHz	0.01	-55.6	-33	PASS
GSM850	190	5	0.15~30MHz	0.16	-42.55	-13	PASS
GSM850	190	5	30~1000MHz	992.89	-45.73	-13	PASS
GSM850	190	5	1000~10000MHz	1673.2	-29.18	-13	PASS
GSM850	251	5	0.009~0.15MHz	0.01	-55.47	-33	PASS
GSM850	251	5	0.15~30MHz	0.15	-42.1	-13	PASS
GSM850	251	5	30~1000MHz	986.74	-45.27	-13	PASS
GSM850	251	5	1000~10000MHz	2546.5	-29.45	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-54.92	-43	PASS
GSM1900	512	0	0.15~30MHz	0.15	-43.42	-23	PASS
GSM1900	512	0	30~1000MHz	963.4	-46.37	-13	PASS
GSM1900	512	0	1000~18000MHz	17018.53	-21.75	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-55.98	-43	PASS
GSM1900	661	0	0.15~30MHz	0.15	-40.14	-23	PASS
GSM1900	661	0	30~1000MHz	962.85	-45.76	-13	PASS
GSM1900	661	0	1000~18000MHz	16825.87	-22.18	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-54.07	-43	PASS
GSM1900	810	0	0.15~30MHz	0.15	-43.64	-23	PASS
GSM1900	810	0	30~1000MHz	895.37	-46.55	-13	PASS
GSM1900	810	0	1000~18000MHz	17001.53	-22.12	-13	PASS

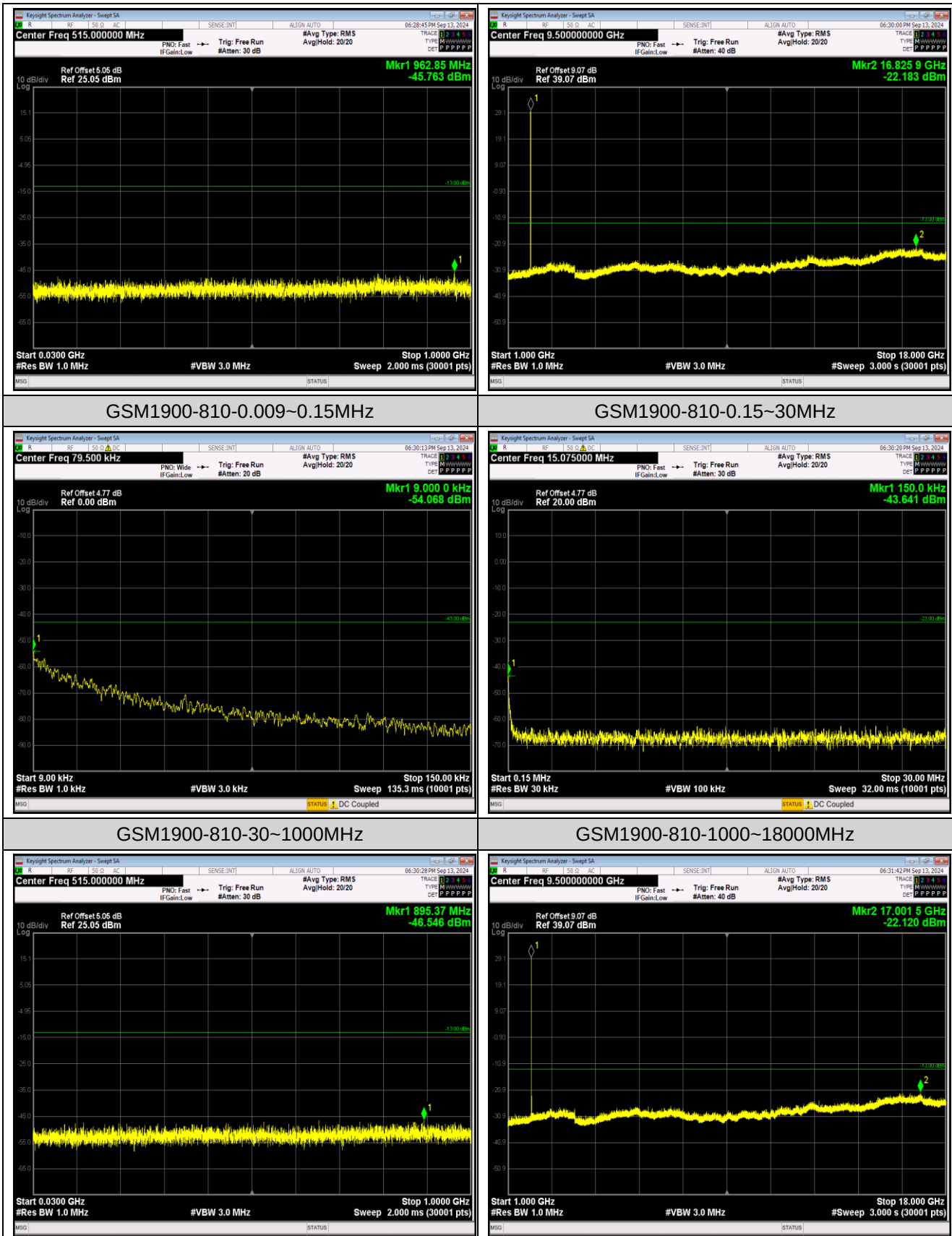
Remark: All channel and all modulation had been tested, but only the worst case data displayed in this report.

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	9.33	0.011152	±2.5	Pass
	-20	7.94	0.009491		
	-10	8.14	0.009730		
	0	9.59	0.011463		
	10	6.94	0.008295		
	20	9.43	0.011272		
	30	6.81	0.008140		
	40	9.07	0.010842		
	50	6.46	0.007722		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.00	8.98	0.010734	±2.5	Pass
	3.87	8.43	0.010077		
	4.45	6.91	0.008260		
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	5.20	0.006216	±2.5	Pass
	-20	5.36	0.006407		
	-10	5.71	0.006825		
	0	10.04	0.012001		
	10	8.33	0.009957		
	20	6.65	0.007949		
	30	6.07	0.007256		
	40	7.62	0.009108		
	50	6.17	0.007375		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.00	3.26	0.003897	±2.5	Pass
	3.87	4.91	0.005869		
	4.45	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 (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.87	-30	20.99	0.011165	Within authorized band for PCS 1900	Pass
	-20	18.95	0.010080		
	-10	23.83	0.012676		
	0	21.02	0.011181		
	10	19.50	0.010372		
	20	17.79	0.009463		
	30	13.59	0.007229		
	40	21.11	0.011229		
	50	18.44	0.009809		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.00	24.02	0.012777	Within authorized band for PCS 1900	Pass
	3.87	27.83	0.014803		
	4.45	22.47	0.011952		
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	18.66	0.009926	Within authorized band for PCS 1900	Pass
	-20	18.89	0.010048		
	-10	15.24	0.008106		
	0	17.85	0.009495		
	10	16.47	0.008761		
	20	18.34	0.009755		
	30	17.98	0.009564		
	40	22.08	0.011745		
	50	27.06	0.014394		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.00	19.24	0.010234	Within authorized band for PCS 1900	Pass
	3.87	14.63	0.007782		
	4.45	19.73	0.010495		
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

