

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	33.24	26.09	38.45	PASS
GSM850	190	5	33.34	26.19	38.45	PASS
GSM850	251	5	33.25	26.1	38.45	PASS
GSM1900	512	0	31.02	27.02	33.00	PASS
GSM1900	661	0	31.18	27.18	33.00	PASS
GSM1900	810	0	30.88	26.88	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	5	1	33.26	26.11	38.45	PASS
GPRS850	128	5	2	32.49	25.34	38.45	PASS
GPRS850	128	5	3	30.72	23.57	38.45	PASS
GPRS850	128	5	4	30.63	23.48	38.45	PASS
GPRS850	190	5	1	33.34	26.19	38.45	PASS
GPRS850	190	5	2	32.58	25.43	38.45	PASS
GPRS850	190	5	3	30.79	23.64	38.45	PASS
GPRS850	190	5	4	30.70	23.55	38.45	PASS
GPRS850	251	5	1	33.27	26.12	38.45	PASS
GPRS850	251	5	2	32.53	25.38	38.45	PASS
GPRS850	251	5	3	30.78	23.63	38.45	PASS
GPRS850	251	5	4	30.71	23.56	38.45	PASS
GPRS1900	512	0	1	31.02	27.02	33.00	PASS
GPRS1900	512	0	2	30.24	26.24	33.00	PASS
GPRS1900	512	0	3	28.46	24.46	33.00	PASS
GPRS1900	512	0	4	28.75	24.75	33.00	PASS
GPRS1900	661	0	1	31.17	27.17	33.00	PASS
GPRS1900	661	0	2	30.41	26.41	33.00	PASS
GPRS1900	661	0	3	28.65	24.65	33.00	PASS
GPRS1900	661	0	4	28.81	24.81	33.00	PASS
GPRS1900	810	0	1	30.88	26.88	33.00	PASS
GPRS1900	810	0	2	30.14	26.14	33.00	PASS
GPRS1900	810	0	3	28.40	24.40	33.00	PASS
GPRS1900	810	0	4	28.72	24.72	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
EGPRS850	128	8	1	27.80	20.65	38.45	PASS
EGPRS850	128	8	2	26.61	19.46	38.45	PASS
EGPRS850	128	8	3	24.21	17.06	38.45	PASS
EGPRS850	128	8	4	23.75	16.6	38.45	PASS
EGPRS850	190	8	1	27.59	20.44	38.45	PASS
EGPRS850	190	8	2	26.42	19.27	38.45	PASS
EGPRS850	190	8	3	24.04	16.89	38.45	PASS
EGPRS850	190	8	4	23.58	16.43	38.45	PASS
EGPRS850	251	8	1	27.75	20.6	38.45	PASS
EGPRS850	251	8	2	26.58	19.43	38.45	PASS
EGPRS850	251	8	3	24.23	17.08	38.45	PASS
EGPRS850	251	8	4	23.76	16.61	38.45	PASS
EGPRS1900	512	2	1	26.83	22.83	33.00	PASS
EGPRS1900	512	2	2	25.62	21.62	33.00	PASS
EGPRS1900	512	2	3	23.38	19.38	33.00	PASS
EGPRS1900	512	2	4	22.93	18.93	33.00	PASS
EGPRS1900	661	2	1	26.86	22.86	33.00	PASS
EGPRS1900	661	2	2	25.73	21.73	33.00	PASS
EGPRS1900	661	2	3	23.50	19.5	33.00	PASS
EGPRS1900	661	2	4	23.00	19	33.00	PASS
EGPRS1900	810	2	1	26.92	22.92	33.00	PASS
EGPRS1900	810	2	2	25.82	21.82	33.00	PASS
EGPRS1900	810	2	3	23.57	19.57	33.00	PASS
EGPRS1900	810	2	4	23.05	19.05	33.00	PASS

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

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

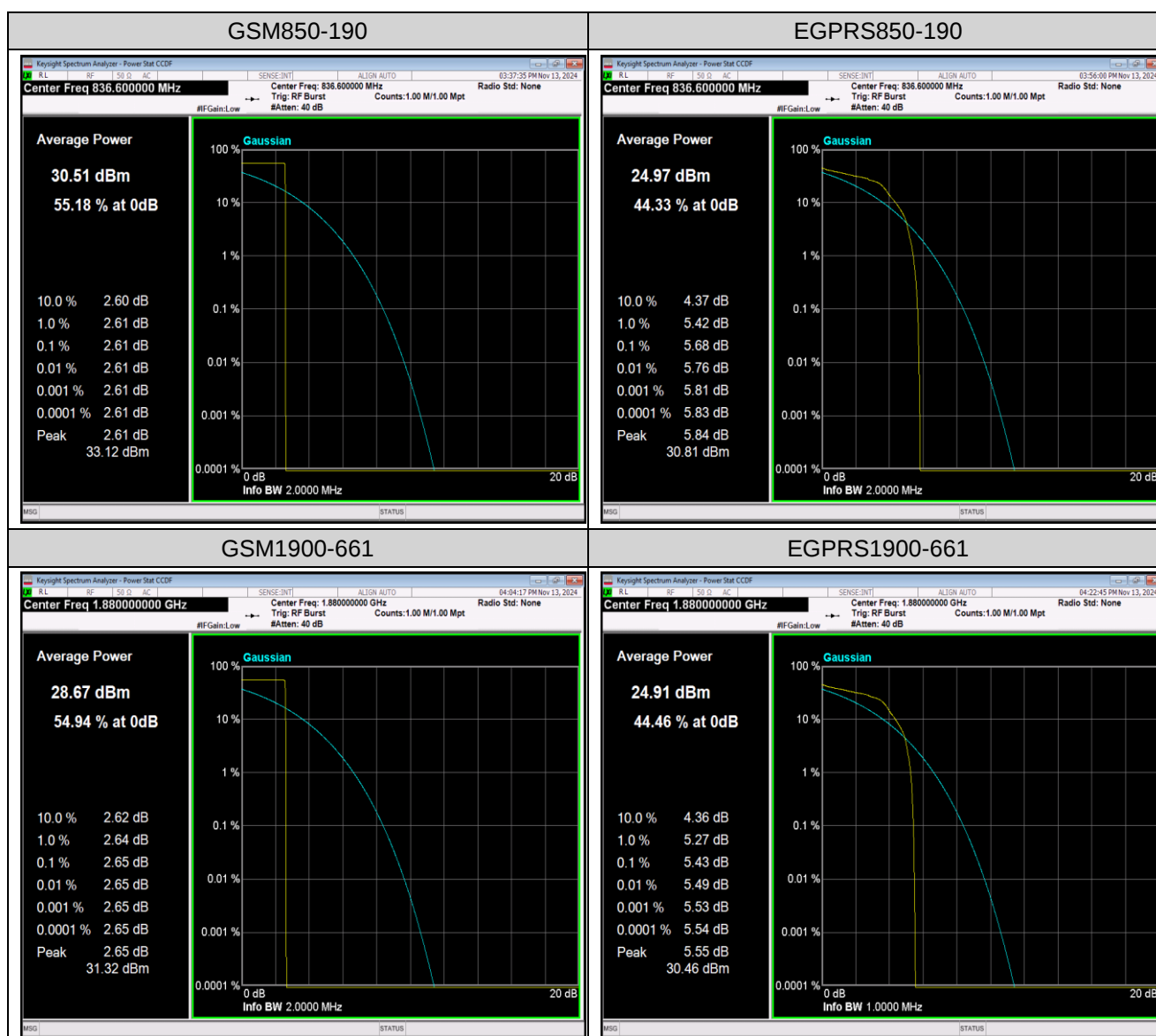
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	PCL	Result(dB)	Limit(dB)	Verdict
GSM850	190	5	2.61	13	PASS
EGPRS850	190	8	5.68	13	PASS
GSM1900	661	0	2.65	13	PASS
EGPRS1900	661	2	5.43	13	PASS

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

Test Graphs

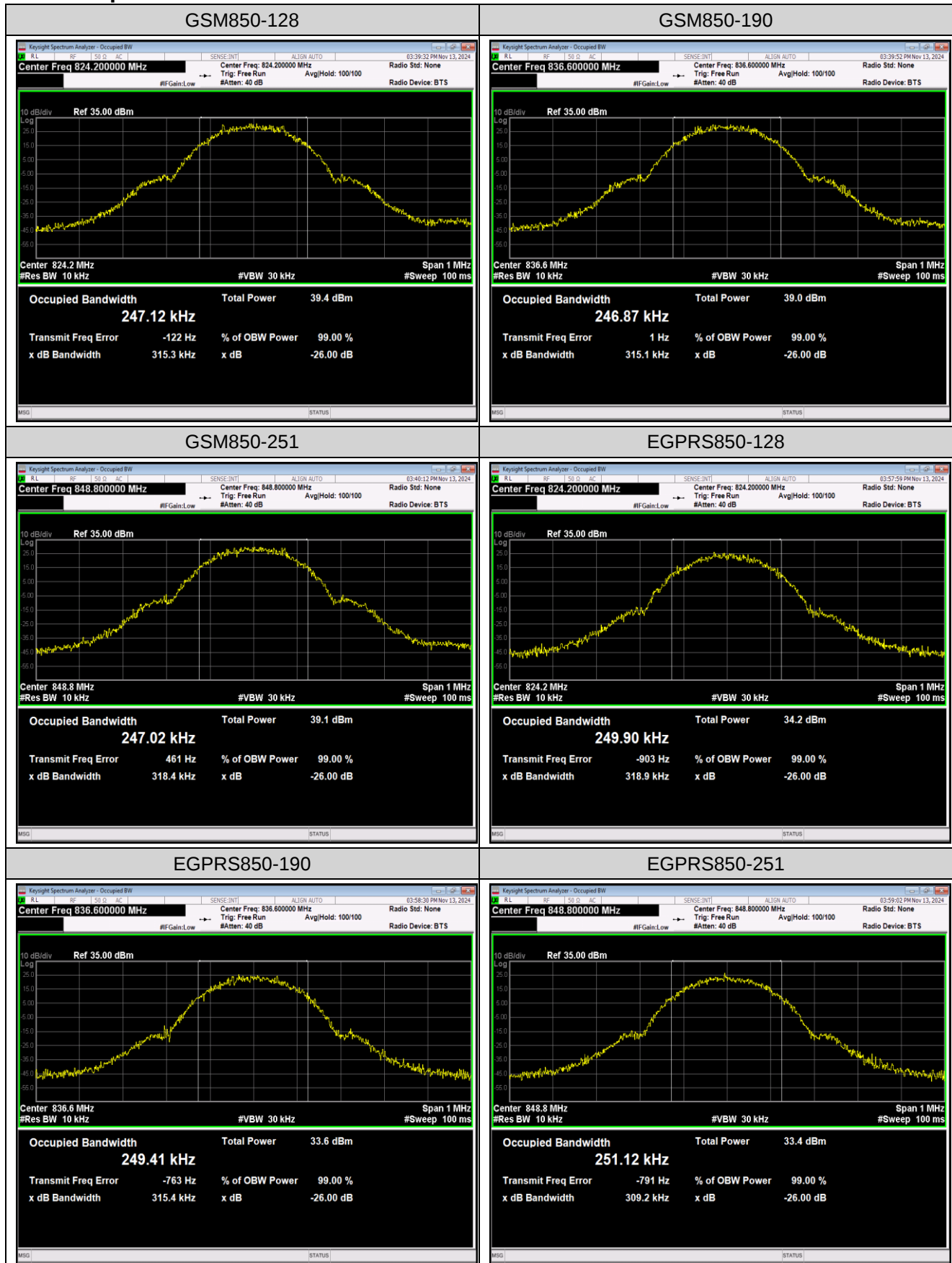


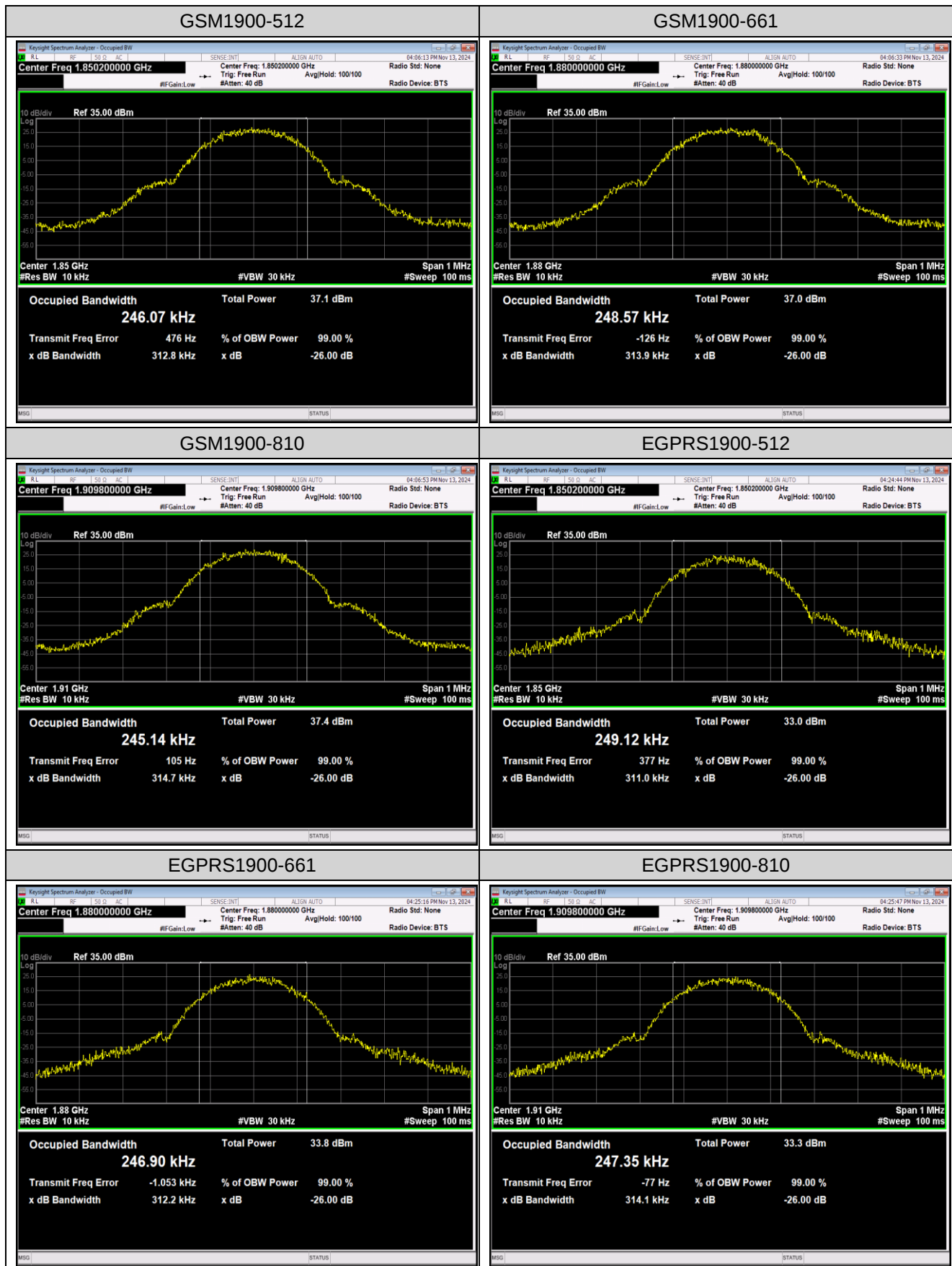
Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	5	0.24712	0.3153	---	PASS
GSM850	190	5	0.24687	0.3151	---	PASS
GSM850	251	5	0.24702	0.3184	---	PASS
EGPRS850	128	8	0.24990	0.3189	---	PASS
EGPRS850	190	8	0.24941	0.3154	---	PASS
EGPRS850	251	8	0.25112	0.3092	---	PASS
GSM1900	512	0	0.24607	0.3128	---	PASS
GSM1900	661	0	0.24857	0.3139	---	PASS
GSM1900	810	0	0.24514	0.3147	---	PASS
EGPRS1900	512	2	0.24912	0.3110	---	PASS
EGPRS1900	661	2	0.24690	0.3122	---	PASS
EGPRS1900	810	2	0.24735	0.3141	---	PASS

Test Graphs



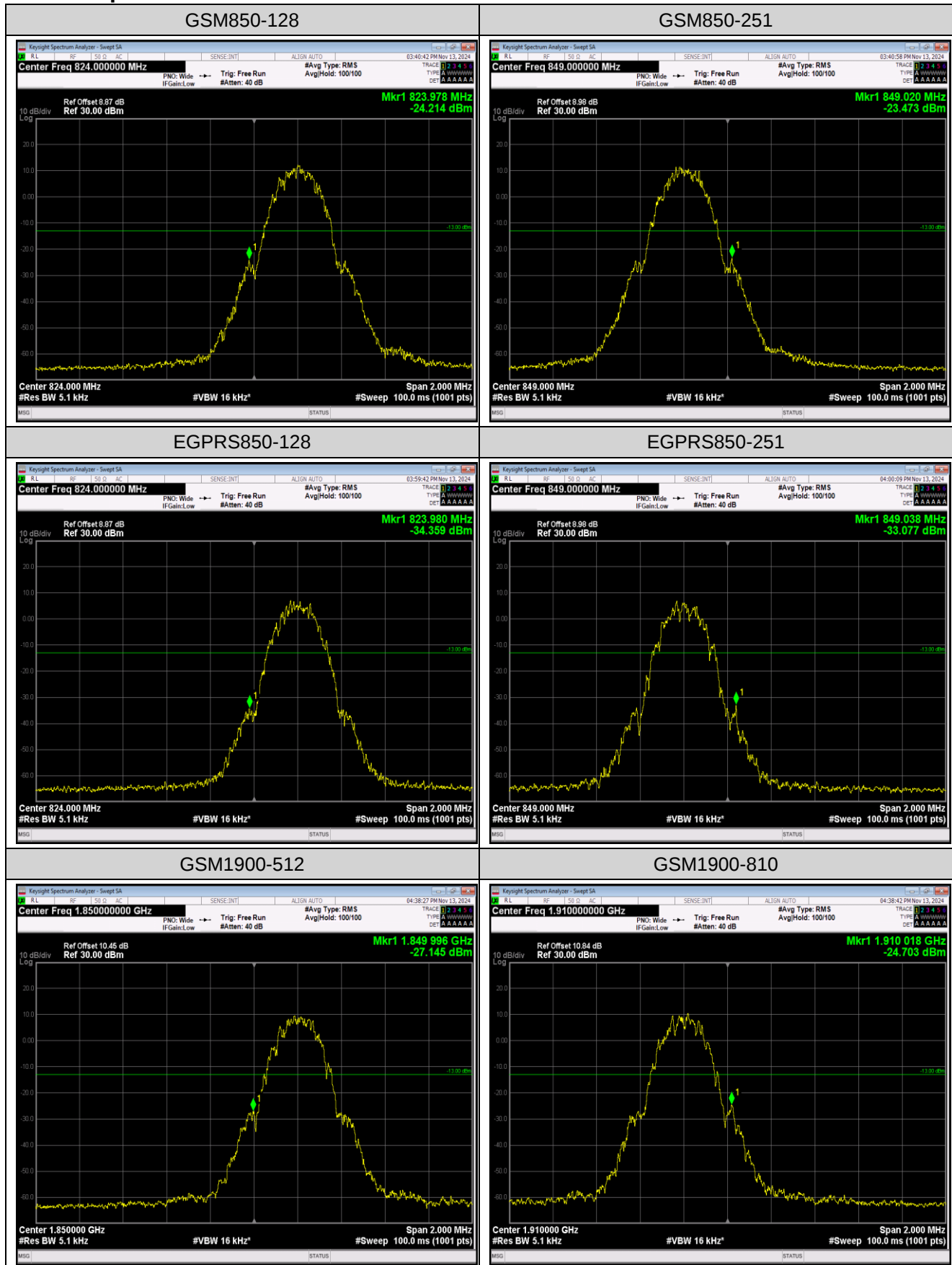


Appendix D: Band Edge

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	-23.47	-13	PASS
EGPRS850	128	8	823.98	-34.36	-13	PASS
EGPRS850	251	8	849.04	-33.08	-13	PASS
GSM1900	512	0	1850.00	-27.15	-13	PASS
GSM1900	810	0	1910.02	-24.70	-13	PASS
EGPRS1900	512	2	1849.98	-19.72	-13	PASS
EGPRS1900	810	2	1910.01	-22.13	-13	PASS

Test Graphs

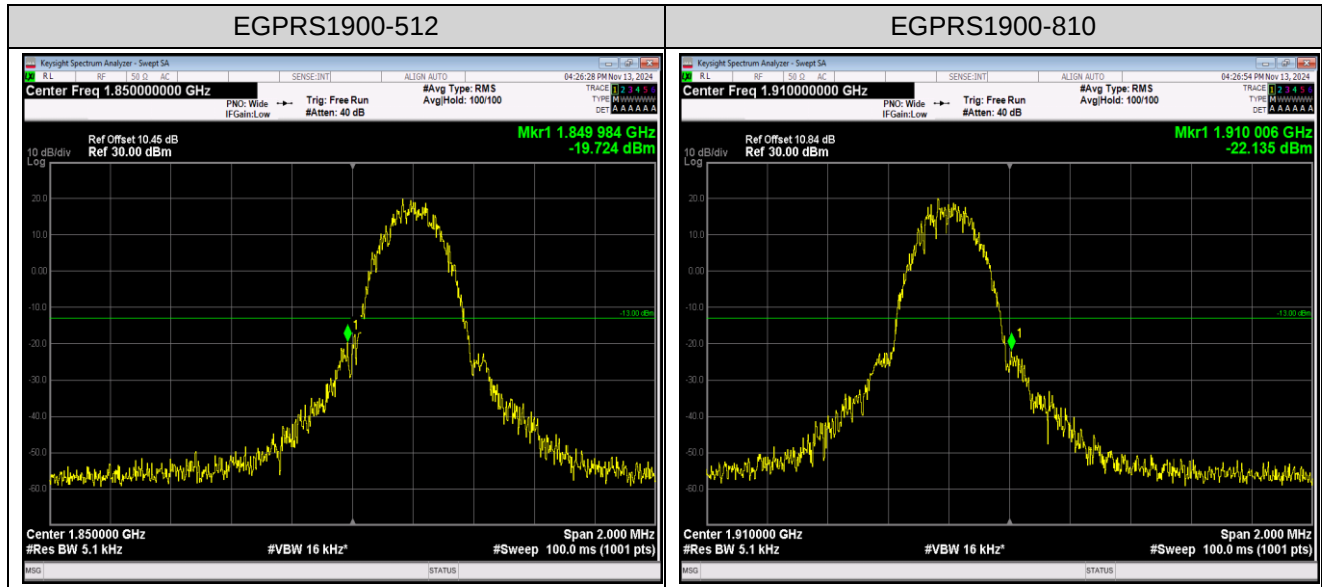


JianYan Testing Group Shenzhen Co., Ltd.

No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

Tel: +86-755-23118282, Fax: +86-755-23116366

Project No.: JYTSZR2411030



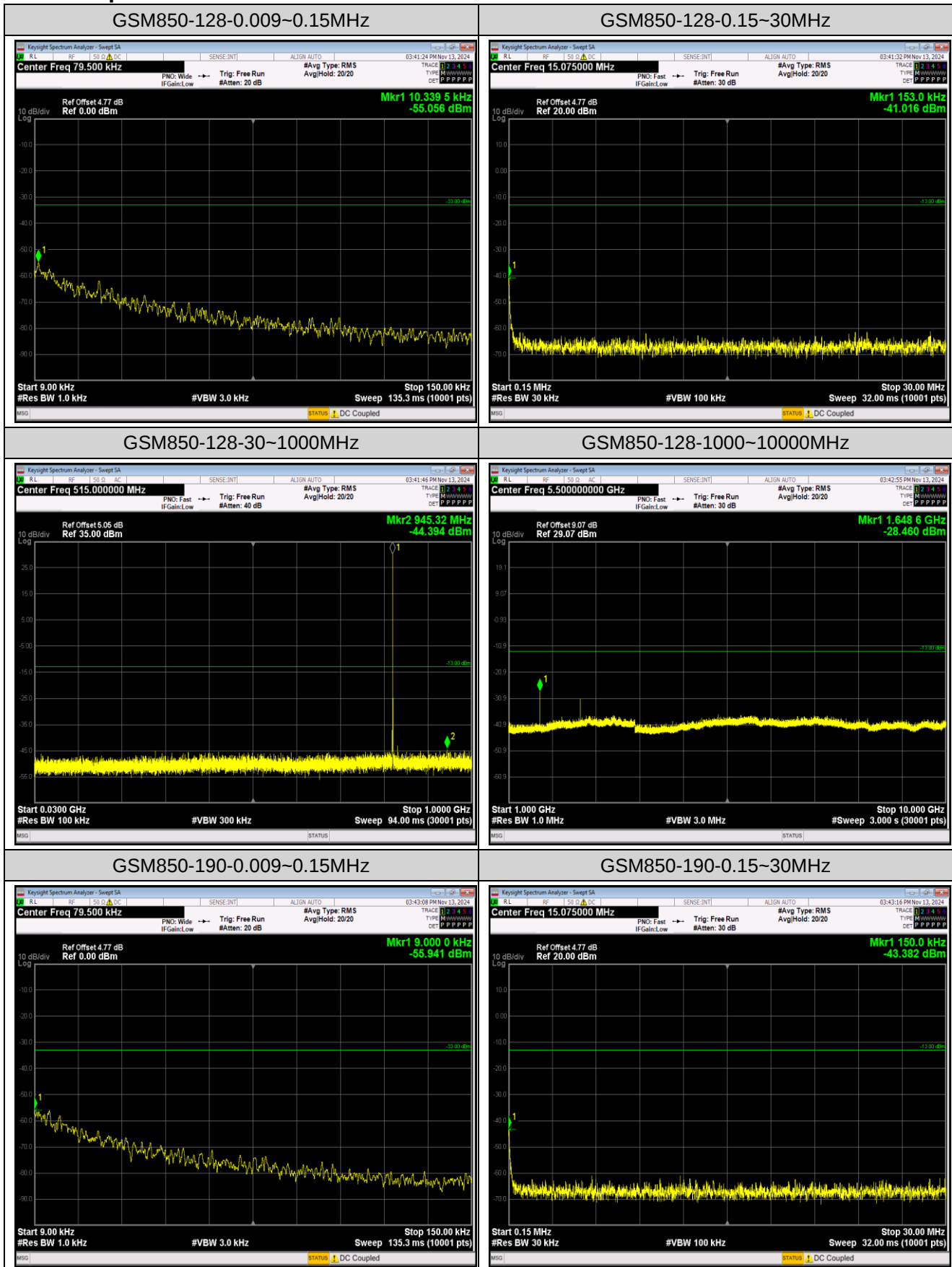
Appendix E: Conducted Spurious Emission

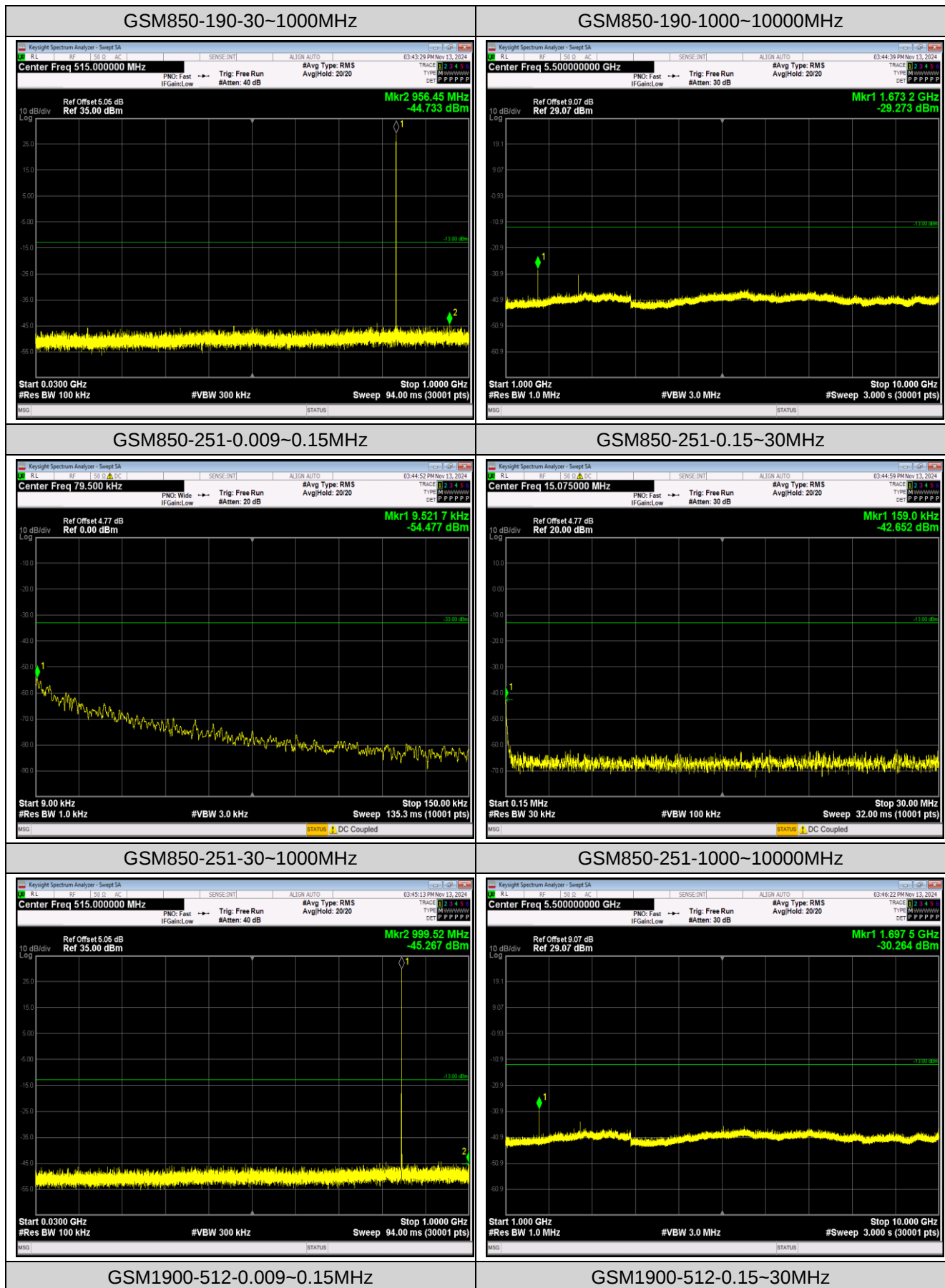
Test Result

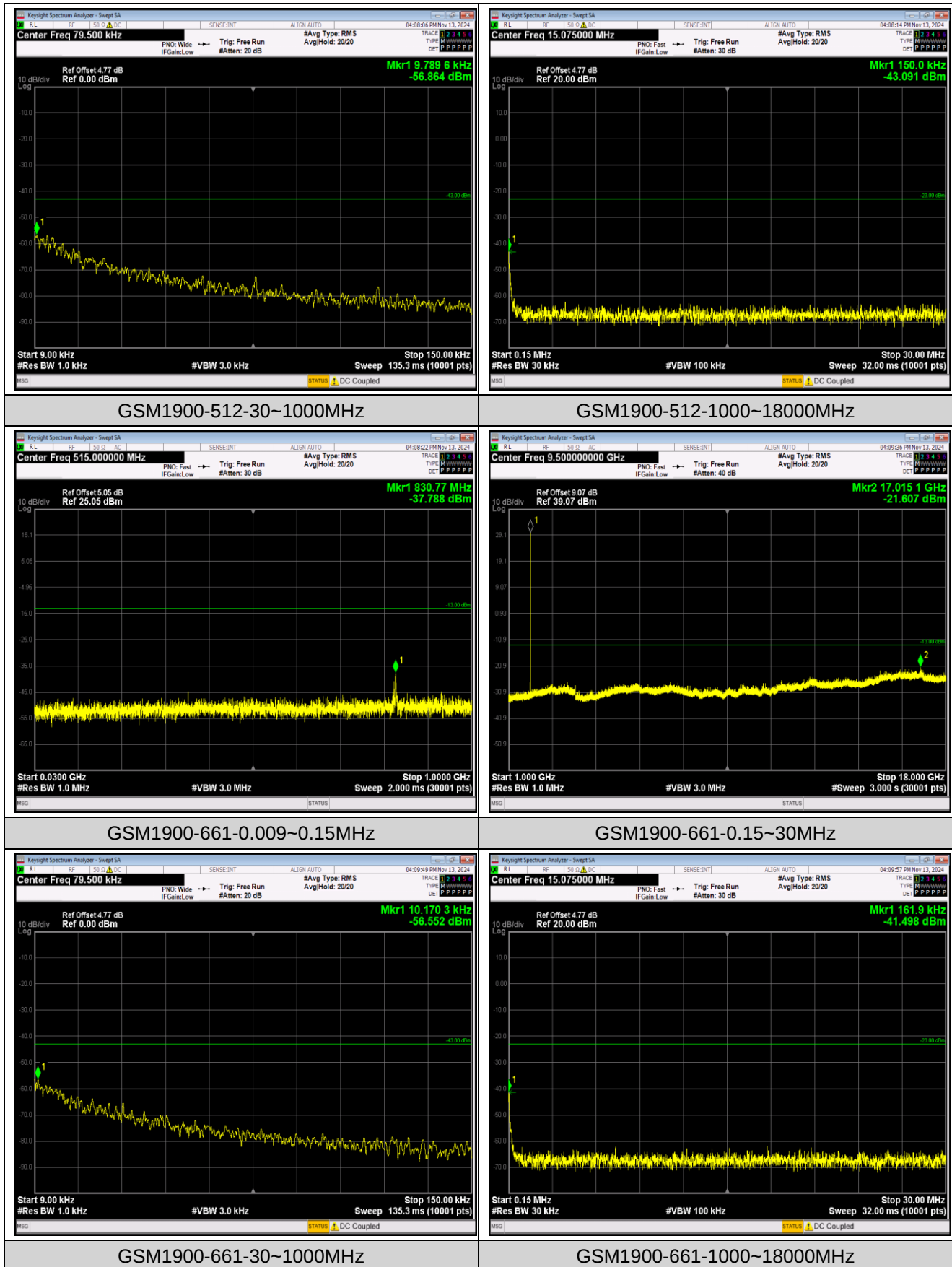
Band	Channel	PCL	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	5	0.009~0.15MHz	0.01	-55.06	-33	PASS
GSM850	128	5	0.15~30MHz	0.15	-41.02	-13	PASS
GSM850	128	5	30~1000MHz	945.32	-44.39	-13	PASS
GSM850	128	5	1000~10000MHz	1648.6	-28.46	-13	PASS
GSM850	190	5	0.009~0.15MHz	0.01	-55.94	-33	PASS
GSM850	190	5	0.15~30MHz	0.15	-43.38	-13	PASS
GSM850	190	5	30~1000MHz	956.45	-44.73	-13	PASS
GSM850	190	5	1000~10000MHz	1673.2	-29.27	-13	PASS
GSM850	251	5	0.009~0.15MHz	0.01	-54.48	-33	PASS
GSM850	251	5	0.15~30MHz	0.16	-42.65	-13	PASS
GSM850	251	5	30~1000MHz	999.52	-45.27	-13	PASS
GSM850	251	5	1000~10000MHz	1697.5	-30.26	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-56.86	-43	PASS
GSM1900	512	0	0.15~30MHz	0.15	-43.09	-23	PASS
GSM1900	512	0	30~1000MHz	830.77	-37.79	-13	PASS
GSM1900	512	0	1000~18000MHz	17015.13	-21.61	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-56.55	-43	PASS
GSM1900	661	0	0.15~30MHz	0.16	-41.5	-23	PASS
GSM1900	661	0	30~1000MHz	470.02	-44.93	-13	PASS
GSM1900	661	0	1000~18000MHz	16735.77	-22.16	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-55.14	-43	PASS
GSM1900	810	0	0.15~30MHz	0.15	-41.28	-23	PASS
GSM1900	810	0	30~1000MHz	375.84	-45.53	-13	PASS
GSM1900	810	0	1000~18000MHz	16356.1	-21.91	-13	PASS

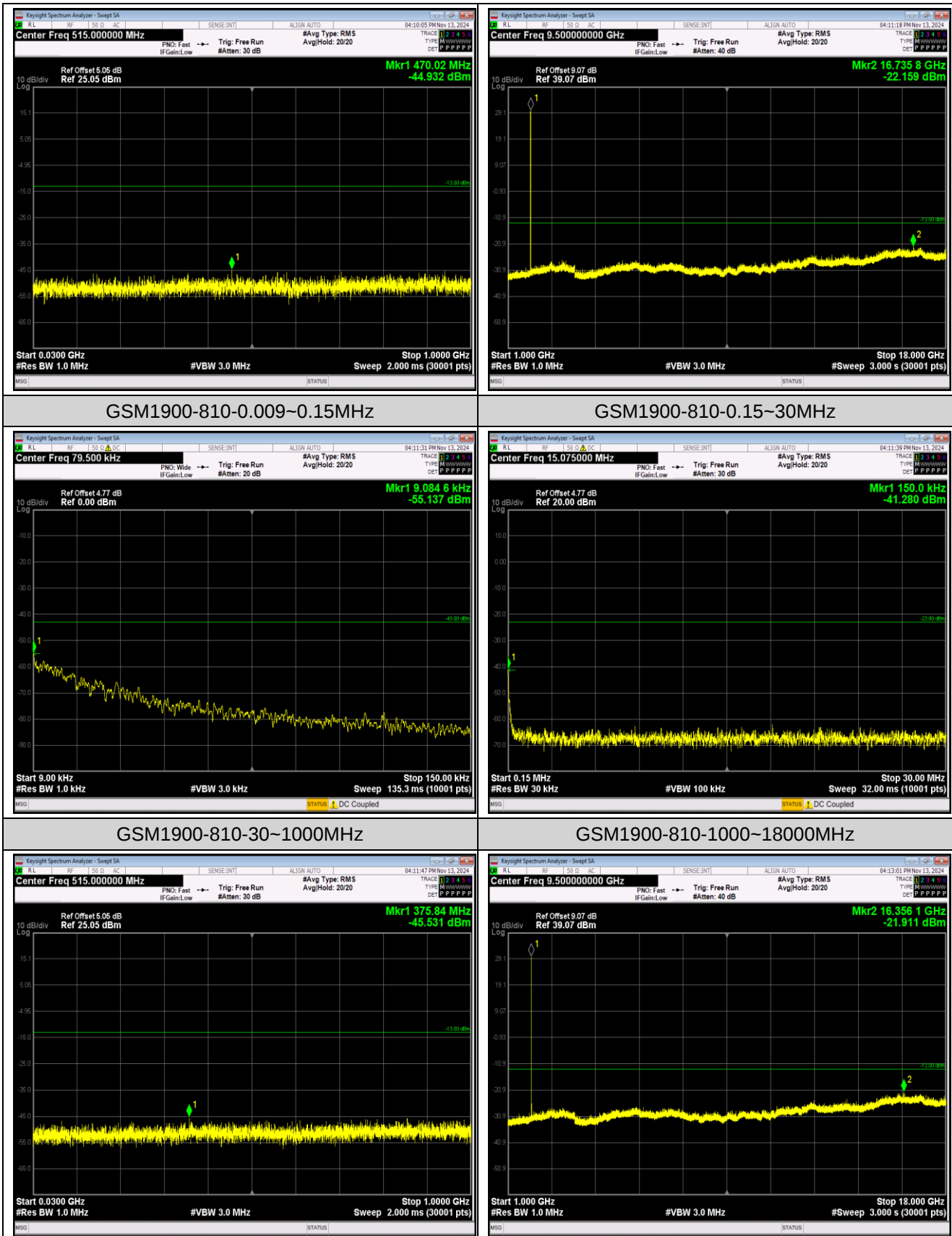
Remark: All channel and all modulation had been tested, but only the worst case data displayed in this report.

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		
3.91	-30	-2.84	-0.003395	±2.5	Pass
	-20	0.90	0.001076		
	-10	0.10	0.000120		
	0	0.71	0.000849		
	10	-2.07	-0.002474		
	20	0.29	0.000347		
	30	3.75	0.004482		
	40	-0.19	-0.000227		
	50	2.26	0.002701		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	-4.58	-0.005475	±2.5	Pass
	3.91	-4.13	-0.004937		
	4.50	-3.39	-0.004052		
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		
3.91	-30	0.32	0.000383	±2.5	Pass
	-20	2.32	0.002773		
	-10	5.00	0.005977		
	0	5.88	0.007028		
	10	9.46	0.011308		
	20	11.66	0.013937		
	30	10.46	0.012503		
	40	13.14	0.015706		
	50	9.94	0.011881		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	4.42	0.005283	±2.5	Pass
	3.91	4.39	0.005247		
	4.50	2.42	0.002893		
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		
3.91	-30	6.10	0.003245	Within authorized band for PCS 1900	Pass
	-20	5.81	0.003090		
	-10	4.46	0.002372		
	0	6.01	0.003197		
	10	10.98	0.005840		
	20	14.40	0.007660		
	30	1.55	0.000824		
	40	-0.26	-0.000138		
	50	3.94	0.002096		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	3.00	0.001596	Within authorized band for PCS 1900	Pass
	3.91	5.13	0.002729		
	4.50	4.81	0.002559		
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		
3.91	-30	2.81	0.001495	Within authorized band for PCS 1900	Pass
	-20	-2.71	-0.001441		
	-10	-4.58	-0.002436		
	0	-1.78	-0.000947		
	10	-9.88	-0.005255		
	20	8.30	0.004415		
	30	3.81	0.002027		
	40	7.55	0.004016		
	50	8.43	0.004484		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	-2.23	-0.001186	Within authorized band for PCS 1900	Pass
	3.91	-0.39	-0.000207		
	4.50	-5.07	-0.002697		
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

