

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	33.06	25.7	38.45	PASS
GSM850	190	5	33.16	25.8	38.45	PASS
GSM850	251	5	33.01	25.65	38.45	PASS
GSM1900	512	0	30.21	28.43	33.00	PASS
GSM1900	661	0	30.43	28.65	33.00	PASS
GSM1900	810	0	30.42	28.64	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	5	1	33.03	25.67	38.45	PASS
GPRS850	128	5	2	32.52	25.16	38.45	PASS
GPRS850	128	5	3	31.02	23.66	38.45	PASS
GPRS850	128	5	4	29.85	22.49	38.45	PASS
GPRS850	190	5	1	33.15	25.79	38.45	PASS
GPRS850	190	5	2	32.62	25.26	38.45	PASS
GPRS850	190	5	3	31.05	23.69	38.45	PASS
GPRS850	190	5	4	29.87	22.51	38.45	PASS
GPRS850	251	5	1	33.03	25.67	38.45	PASS
GPRS850	251	5	2	32.53	25.17	38.45	PASS
GPRS850	251	5	3	31.00	23.64	38.45	PASS
GPRS850	251	5	4	29.83	22.47	38.45	PASS
GPRS1900	512	0	1	30.25	28.47	33.00	PASS
GPRS1900	512	0	2	29.56	27.78	33.00	PASS
GPRS1900	512	0	3	27.85	26.07	33.00	PASS
GPRS1900	512	0	4	26.63	24.85	33.00	PASS
GPRS1900	661	0	1	30.46	28.68	33.00	PASS
GPRS1900	661	0	2	29.75	27.97	33.00	PASS
GPRS1900	661	0	3	28.00	26.22	33.00	PASS
GPRS1900	661	0	4	26.77	24.99	33.00	PASS
GPRS1900	810	0	1	30.44	28.66	33.00	PASS
GPRS1900	810	0	2	29.69	27.91	33.00	PASS
GPRS1900	810	0	3	27.90	26.12	33.00	PASS
GPRS1900	810	0	4	26.66	24.88	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
EGPRS850	128	8	1	28.03	20.67	38.45	PASS
EGPRS850	128	8	2	27.98	20.62	38.45	PASS
EGPRS850	128	8	3	27.92	20.56	38.45	PASS
EGPRS850	128	8	4	27.84	20.48	38.45	PASS
EGPRS850	190	8	1	28.06	20.7	38.45	PASS
EGPRS850	190	8	2	28.01	20.65	38.45	PASS
EGPRS850	190	8	3	27.94	20.58	38.45	PASS
EGPRS850	190	8	4	27.85	20.49	38.45	PASS
EGPRS850	251	8	1	27.99	20.63	38.45	PASS
EGPRS850	251	8	2	27.95	20.59	38.45	PASS
EGPRS850	251	8	3	27.89	20.53	38.45	PASS
EGPRS850	251	8	4	27.82	20.46	38.45	PASS
EGPRS1900	512	2	1	26.92	25.14	33.00	PASS
EGPRS1900	512	2	2	26.85	25.07	33.00	PASS
EGPRS1900	512	2	3	26.75	24.97	33.00	PASS
EGPRS1900	512	2	4	26.63	24.85	33.00	PASS
EGPRS1900	661	2	1	27.10	25.32	33.00	PASS
EGPRS1900	661	2	2	27.03	25.25	33.00	PASS
EGPRS1900	661	2	3	26.93	25.15	33.00	PASS
EGPRS1900	661	2	4	26.82	25.04	33.00	PASS
EGPRS1900	810	2	1	27.02	25.24	33.00	PASS
EGPRS1900	810	2	2	26.94	25.16	33.00	PASS
EGPRS1900	810	2	3	26.82	25.04	33.00	PASS
EGPRS1900	810	2	4	26.69	24.91	33.00	PASS

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

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

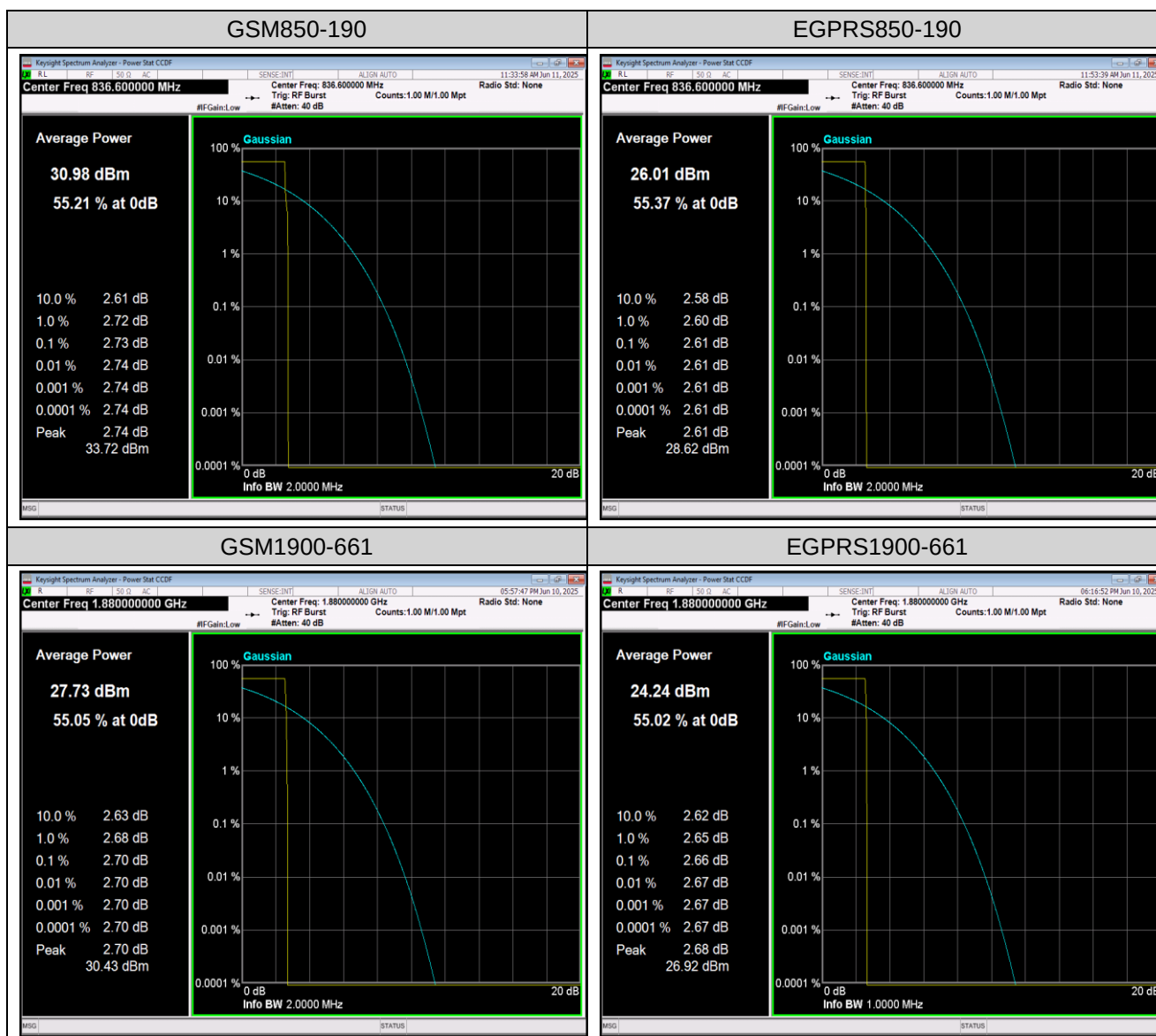
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	PCL	Result(dB)	Limit(dB)	Verdict
GSM850	190	5	2.73	13	PASS
EGPRS850	190	8	2.61	13	PASS
GSM1900	661	0	2.7	13	PASS
EGPRS1900	661	2	2.66	13	PASS

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

Test Graphs

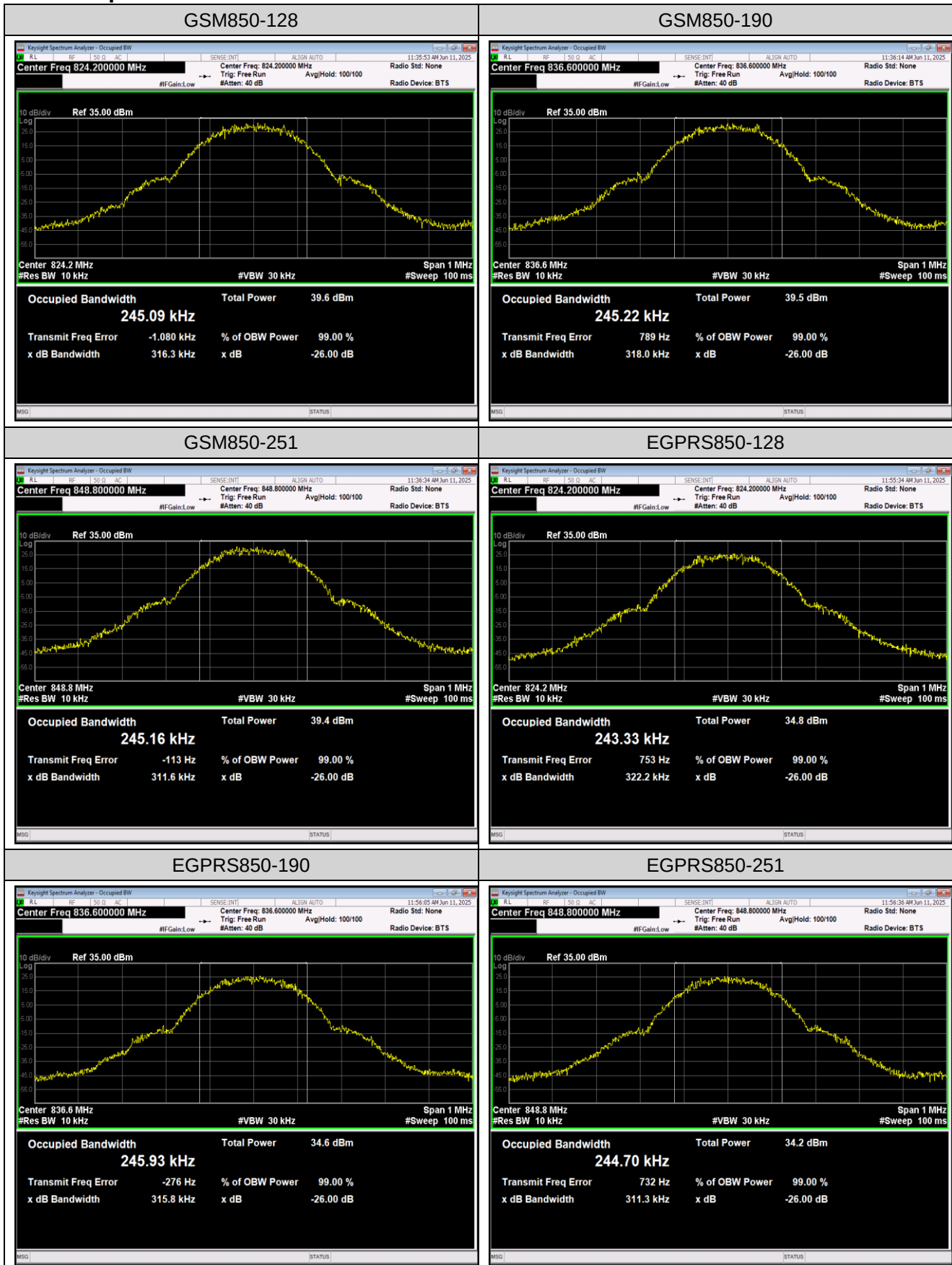


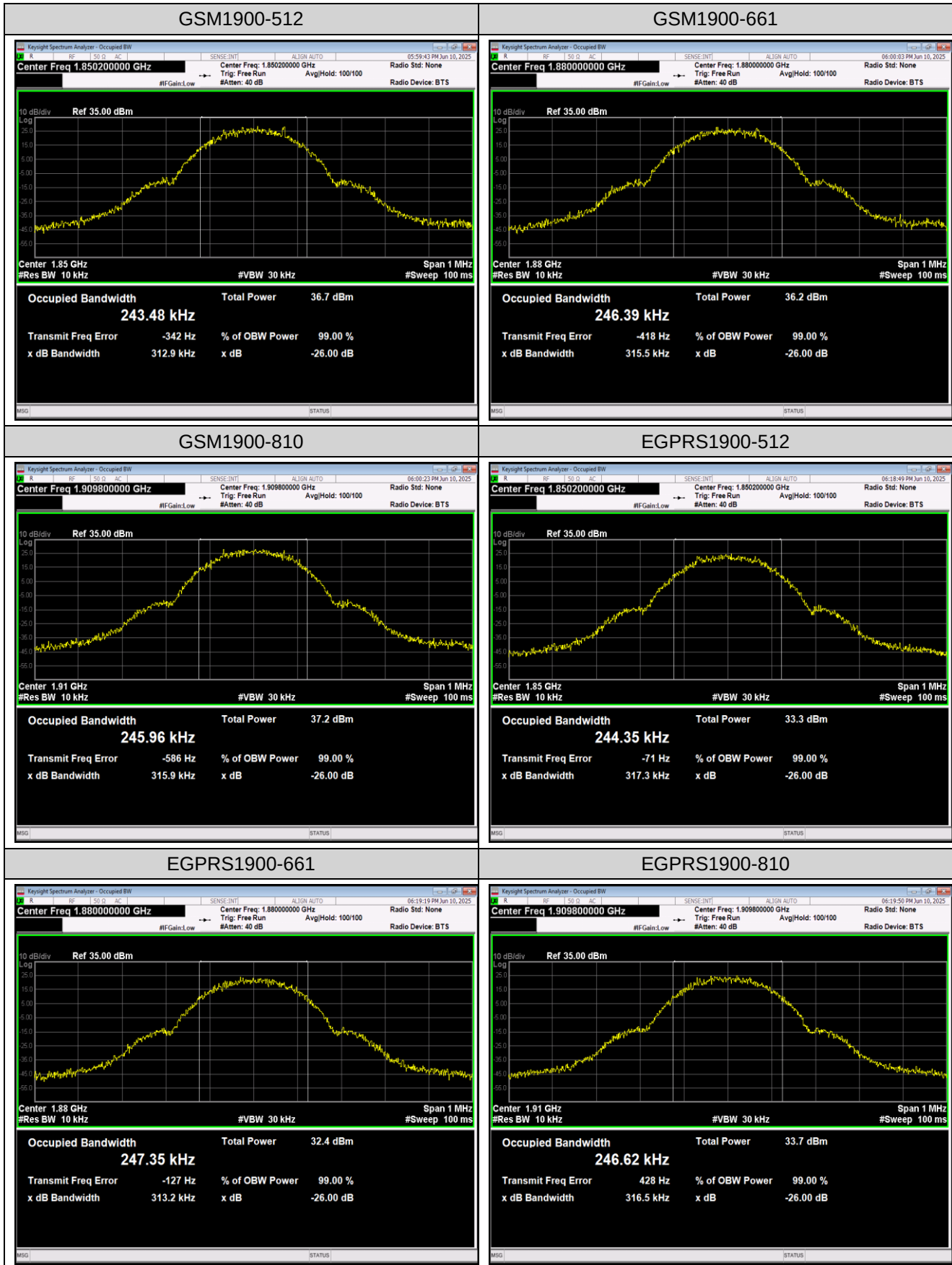
Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	5	0.24509	0.3163	---	PASS
GSM850	190	5	0.24522	0.3180	---	PASS
GSM850	251	5	0.24516	0.3116	---	PASS
EGPRS850	128	8	0.24333	0.3222	---	PASS
EGPRS850	190	8	0.24593	0.3158	---	PASS
EGPRS850	251	8	0.24470	0.3113	---	PASS
GSM1900	512	0	0.24348	0.3129	---	PASS
GSM1900	661	0	0.24639	0.3155	---	PASS
GSM1900	810	0	0.24596	0.3159	---	PASS
EGPRS1900	512	2	0.24435	0.3173	---	PASS
EGPRS1900	661	2	0.24735	0.3132	---	PASS
EGPRS1900	810	2	0.24662	0.3165	---	PASS

Test Graphs



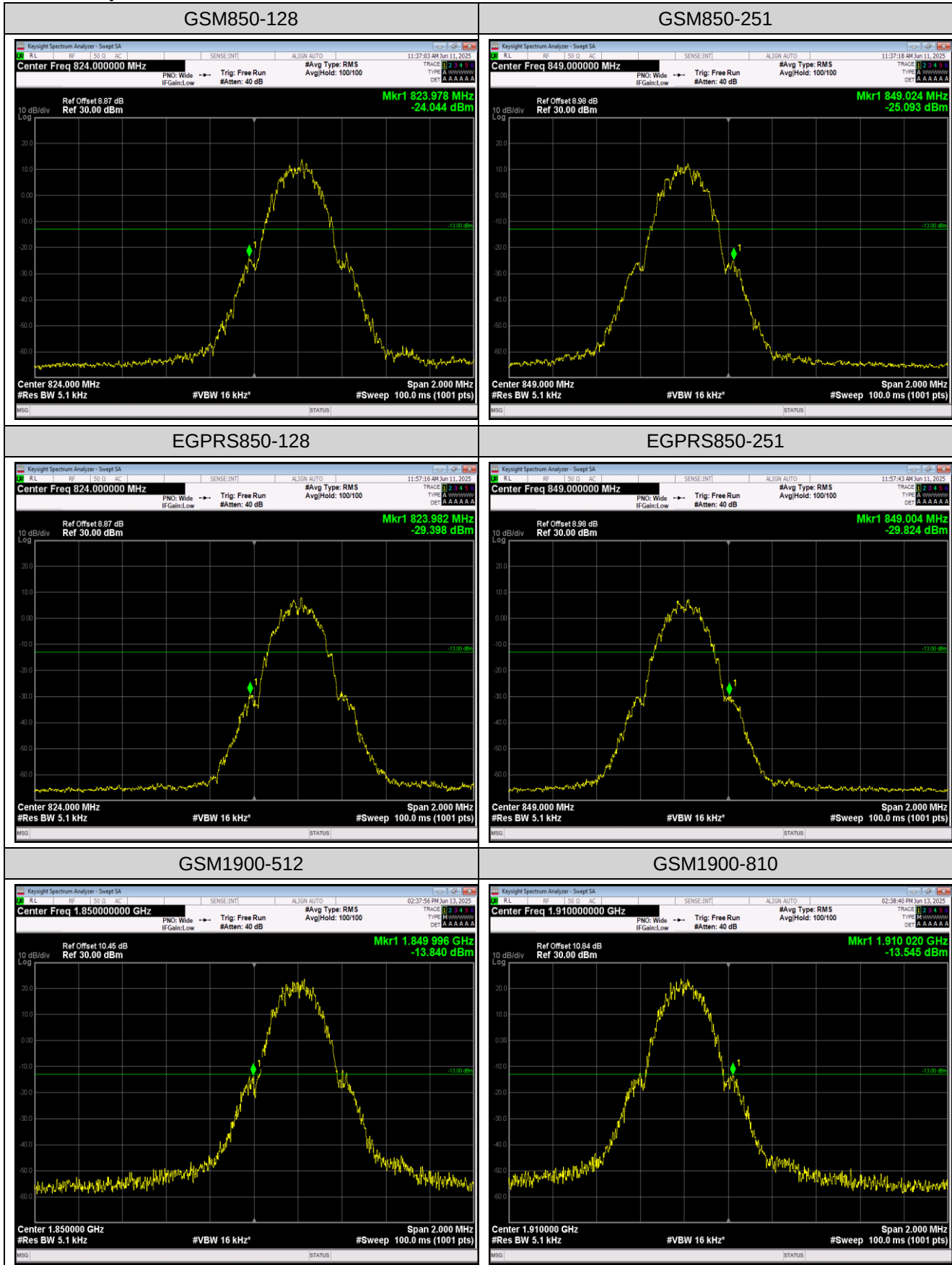


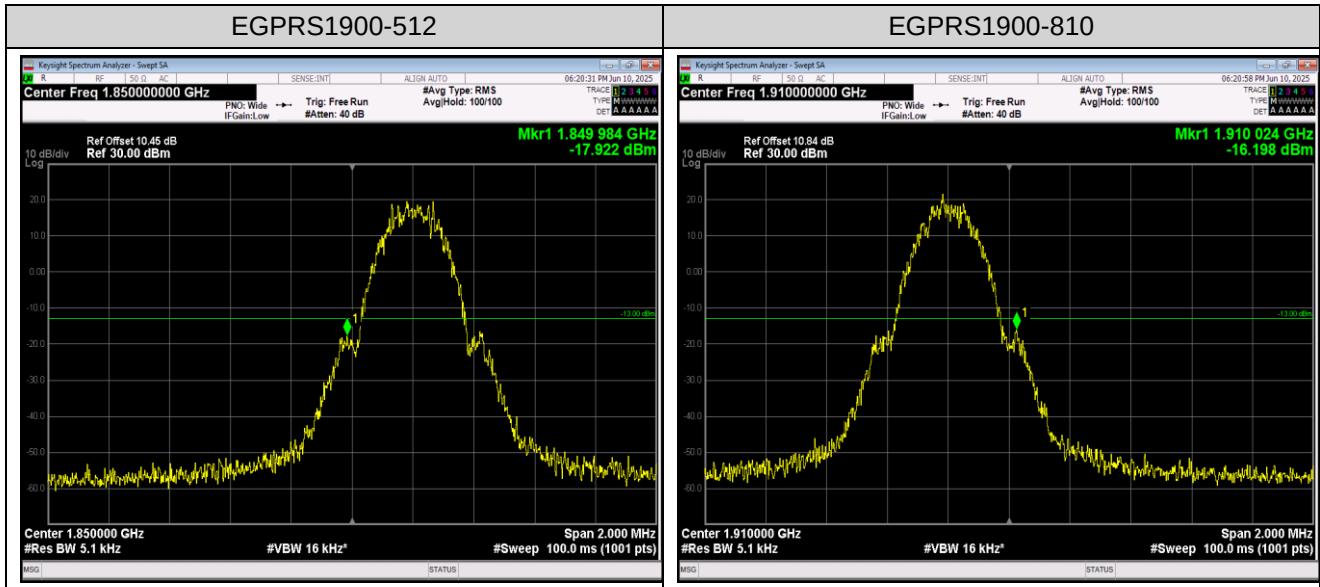
Appendix D: Band Edge

Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	5	823.98	-24.04	-13	PASS
GSM850	251	5	849.02	-25.09	-13	PASS
EGPRS850	128	8	823.98	-29.40	-13	PASS
EGPRS850	251	8	849.00	-29.82	-13	PASS
GSM1900	512	0	1850.00	-13.84	-13	PASS
GSM1900	810	0	1910.02	-13.54	-13	PASS
EGPRS1900	512	2	1849.98	-17.92	-13	PASS
EGPRS1900	810	2	1910.02	-16.20	-13	PASS

Test Graphs





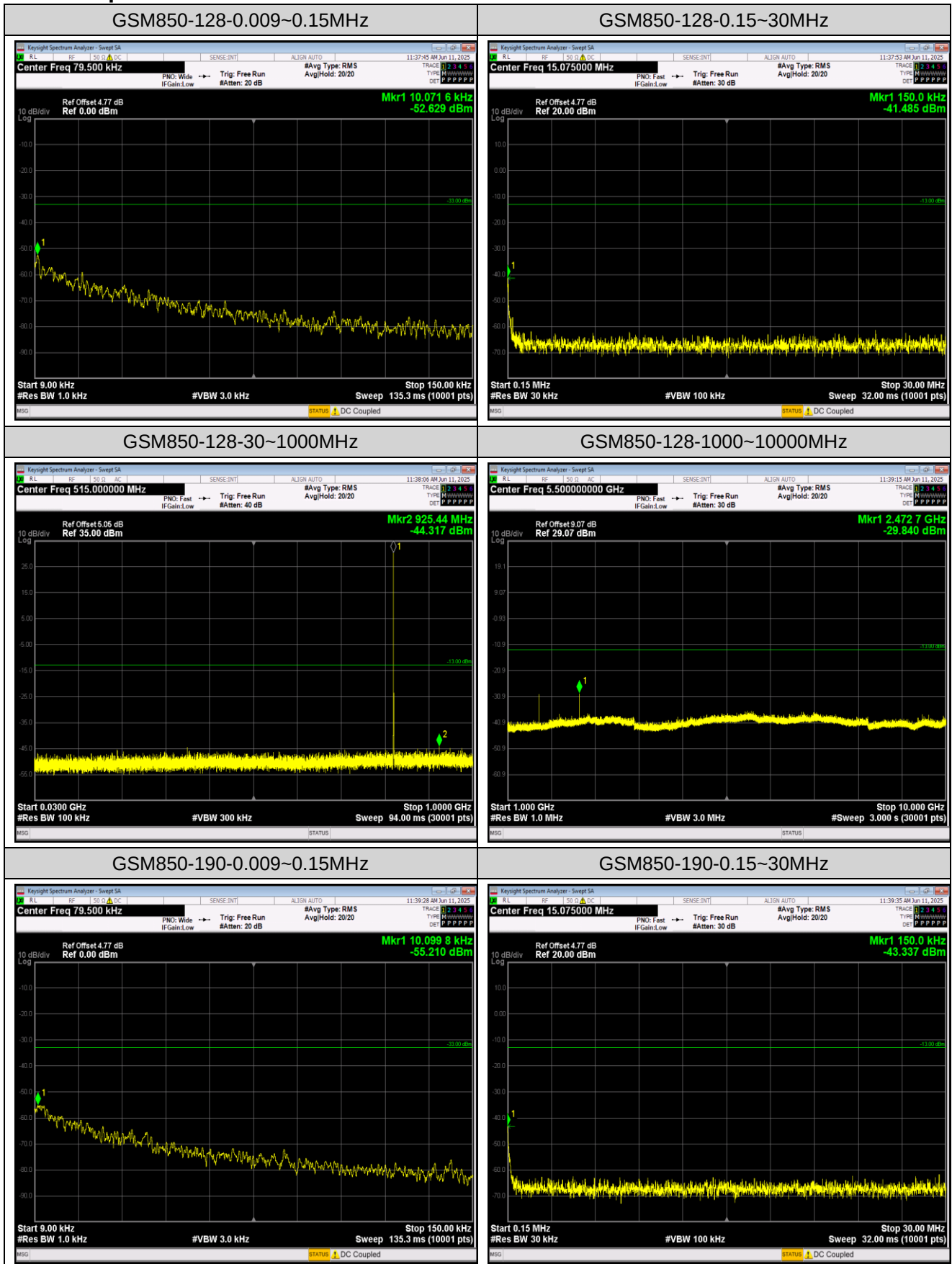
Appendix E: Conducted Spurious Emission

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	-52.63	-33	PASS
GSM850	128	5	0.15~30MHz	0.15	-41.49	-13	PASS
GSM850	128	5	30~1000MHz	925.44	-44.32	-13	PASS
GSM850	128	5	1000~10000MHz	2472.7	-29.84	-13	PASS
GSM850	190	5	0.009~0.15MHz	0.01	-55.21	-33	PASS
GSM850	190	5	0.15~30MHz	0.15	-43.34	-13	PASS
GSM850	190	5	30~1000MHz	416.51	-45.27	-13	PASS
GSM850	190	5	1000~10000MHz	2509.6	-29.92	-13	PASS
GSM850	251	5	0.009~0.15MHz	0.01	-53.97	-33	PASS
GSM850	251	5	0.15~30MHz	0.15	-41.82	-13	PASS
GSM850	251	5	30~1000MHz	469.38	-44.96	-13	PASS
GSM850	251	5	1000~10000MHz	2546.2	-30.45	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-54.47	-43	PASS
GSM1900	512	0	0.15~30MHz	0.16	-43.56	-23	PASS
GSM1900	512	0	30~1000MHz	795.3	-46.04	-13	PASS
GSM1900	512	0	1000~18000MHz	16405.4	-22.35	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-55.97	-43	PASS
GSM1900	661	0	0.15~30MHz	0.15	-42.02	-23	PASS
GSM1900	661	0	30~1000MHz	862.23	-45.75	-13	PASS
GSM1900	661	0	1000~18000MHz	17054.23	-21.54	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-55	-43	PASS
GSM1900	810	0	0.15~30MHz	0.16	-43.66	-23	PASS
GSM1900	810	0	30~1000MHz	274.02	-45.54	-13	PASS
GSM1900	810	0	1000~18000MHz	17008.9	-22.26	-13	PASS

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

Test Graphs

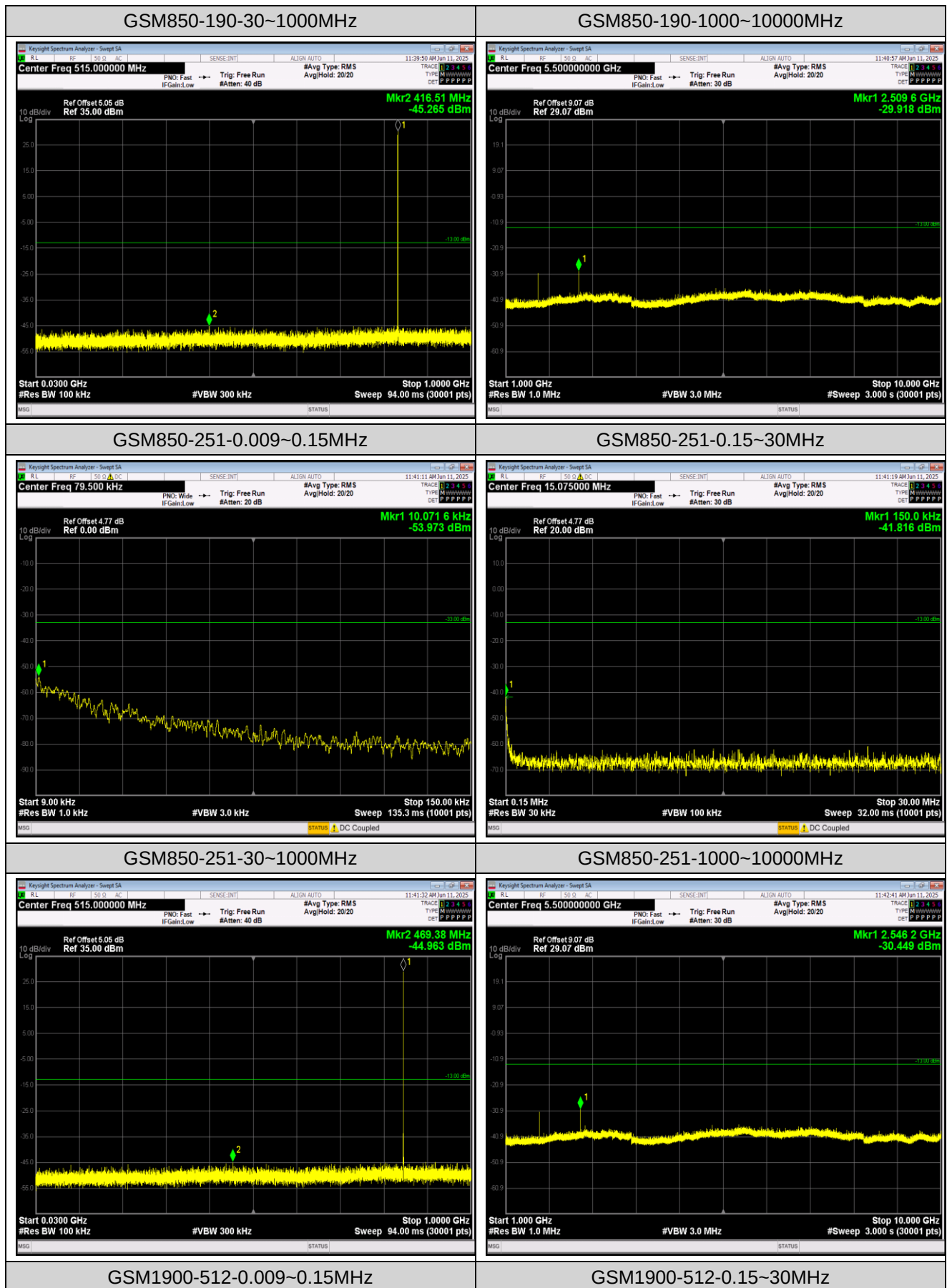


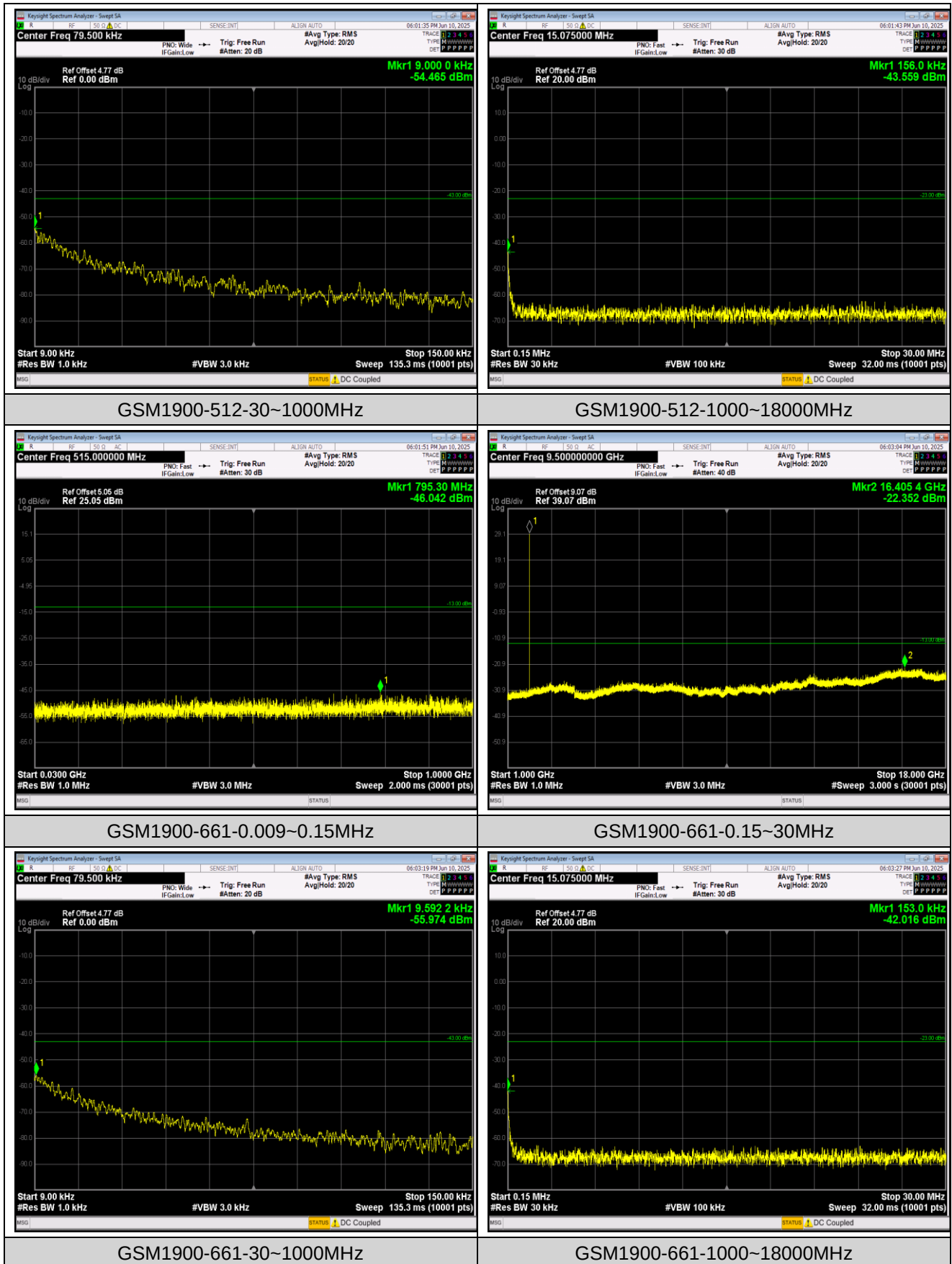
JianYan Testing Group Shenzhen Co., Ltd.

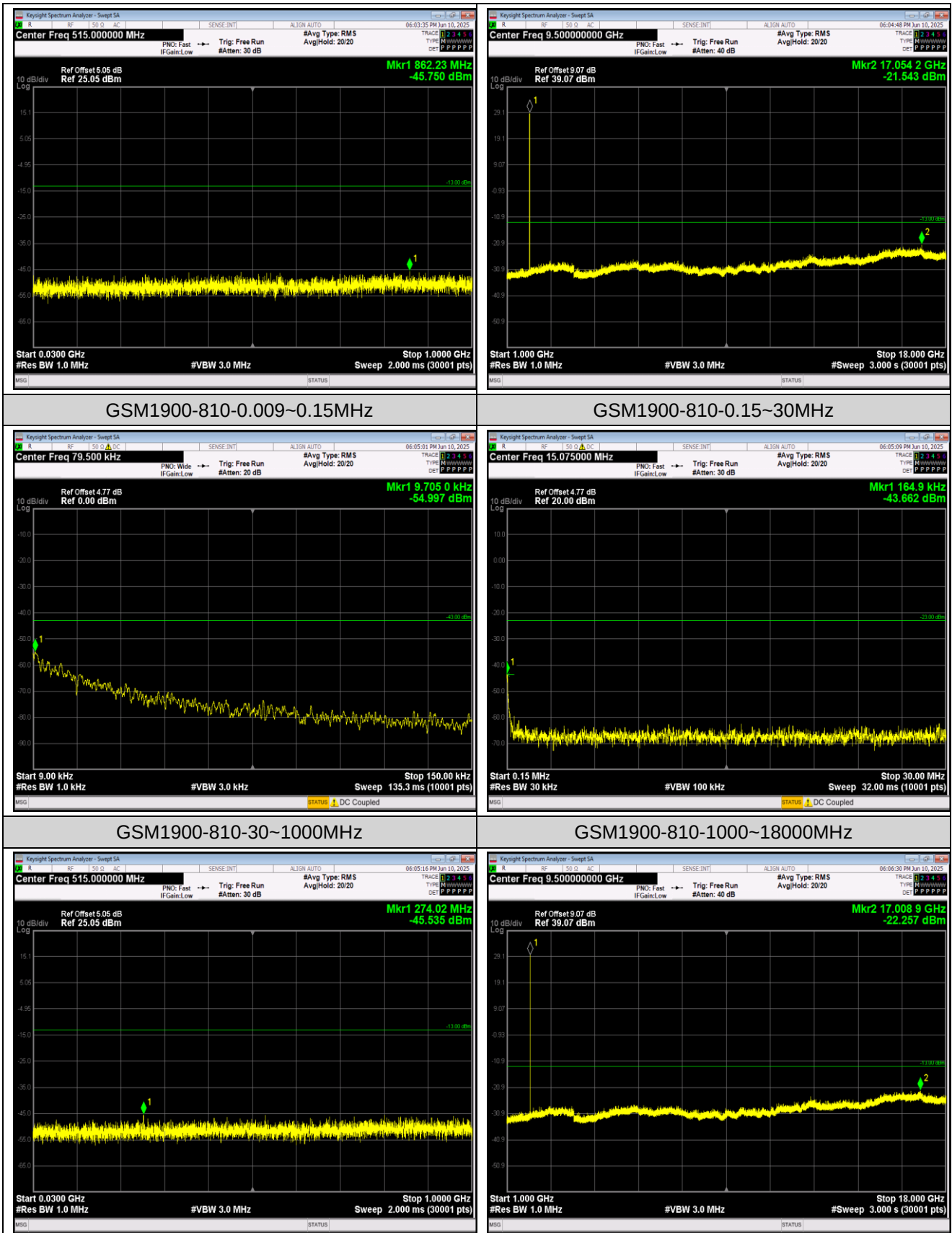
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Appendix F: Frequency Stability

Test Result

Reference Frequency: GSM850 Middle channel=190 Frequency=836.6MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.92	-30	-9.10	-0.010877	±2.5	Pass
	-20	-8.45	-0.010100		
	-10	-8.99	-0.010746		
	0	-5.14	-0.006144		
	10	-7.16	-0.008558		
	20	-10.63	-0.012706		
	30	-13.11	-0.015671		
	40	-10.03	-0.011989		
	50	-7.86	-0.009395		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	-13.34	-0.015945	±2.5	Pass
	3.92	-11.05	-0.013208		
	4.53	-7.25	-0.008666		
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		
3.92	-30	-3.41	-0.004076	±2.5	Pass
	-20	-3.27	-0.003909		
	-10	-6.22	-0.007435		
	0	-4.21	-0.005032		
	10	-3.58	-0.004279		
	20	-3.08	-0.003682		
	30	-1.30	-0.001554		
	40	-3.18	-0.003801		
	50	-3.55	-0.004243		
Voltage					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	-4.64	-0.005546	±2.5	Pass
	3.92	-2.78	-0.003323		
	4.53	-4.04	-0.004829		
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		
3.92	-30	-5.07	-0.002697	Within authorized band for PCS 1900	Pass
	-20	-13.08	-0.006957		
	-10	10.65	0.005665		
	0	6.49	0.003452		
	10	-6.81	-0.003622		
	20	4.55	0.002420		
	30	-3.00	-0.001596		
	40	6.17	0.003282		
	50	5.20	0.002766		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	-5.07	-0.002697	Within authorized band for PCS 1900	Pass
	3.92	-9.65	-0.005133		
	4.53	8.17	0.004346		
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		
3.92	-30	-8.17	-0.004346	Within authorized band for PCS 1900	Pass
	-20	-6.46	-0.003436		
	-10	-6.42	-0.003415		
	0	-2.16	-0.001149		
	10	-7.94	-0.004223		
	20	4.52	0.002404		
	30	0.55	0.000293		
	40	-23.83	-0.012676		
	50	19.89	0.010580		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.45	-7.85	-0.004176	Within authorized band for PCS 1900	Pass
	3.92	-2.29	-0.001218		
	4.53	-3.29	-0.001750		
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

