

Appendix A: Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	5	1	32.37	28.7	38.45	PASS
GPRS850	128	5	2	30.31	26.64	38.45	PASS
GPRS850	128	5	3	28.32	24.65	38.45	PASS
GPRS850	128	5	4	26.25	22.58	38.45	PASS
GPRS850	190	5	1	32.54	28.87	38.45	PASS
GPRS850	190	5	2	30.52	26.85	38.45	PASS
GPRS850	190	5	3	28.54	24.87	38.45	PASS
GPRS850	190	5	4	26.50	22.83	38.45	PASS
GPRS850	251	5	1	32.41	28.74	38.45	PASS
GPRS850	251	5	2	30.38	26.71	38.45	PASS
GPRS850	251	5	3	28.40	24.73	38.45	PASS
GPRS850	251	5	4	26.37	22.7	38.45	PASS
GPRS1900	512	0	1	28.21	28.04	33.00	PASS
GPRS1900	512	0	2	26.28	26.11	33.00	PASS
GPRS1900	512	0	3	24.71	24.54	33.00	PASS
GPRS1900	512	0	4	22.62	22.45	33.00	PASS
GPRS1900	661	0	1	28.90	28.73	33.00	PASS
GPRS1900	661	0	2	26.68	26.51	33.00	PASS
GPRS1900	661	0	3	25.10	24.93	33.00	PASS
GPRS1900	661	0	4	22.94	22.77	33.00	PASS
GPRS1900	810	0	1	29.59	29.42	33.00	PASS
GPRS1900	810	0	2	26.58	26.41	33.00	PASS
GPRS1900	810	0	3	25.00	24.83	33.00	PASS
GPRS1900	810	0	4	22.90	22.73	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
EGPRS850	128	8	1	26.64	22.97	38.45	PASS
EGPRS850	128	8	2	25.53	21.86	38.45	PASS
EGPRS850	128	8	3	23.12	19.45	38.45	PASS
EGPRS850	128	8	4	20.68	17.01	38.45	PASS
EGPRS850	190	8	1	26.94	23.27	38.45	PASS
EGPRS850	190	8	2	25.96	22.29	38.45	PASS
EGPRS850	190	8	3	23.47	19.8	38.45	PASS
EGPRS850	190	8	4	21.10	17.43	38.45	PASS
EGPRS850	251	8	1	26.64	22.97	38.45	PASS
EGPRS850	251	8	2	25.61	21.94	38.45	PASS
EGPRS850	251	8	3	23.20	19.53	38.45	PASS
EGPRS850	251	8	4	20.75	17.08	38.45	PASS
EGPRS1900	512	2	1	24.82	24.65	33.00	PASS
EGPRS1900	512	2	2	23.47	23.3	33.00	PASS
EGPRS1900	512	2	3	22.32	22.15	33.00	PASS
EGPRS1900	512	2	4	19.04	18.87	33.00	PASS
EGPRS1900	661	2	1	25.18	25.01	33.00	PASS
EGPRS1900	661	2	2	23.91	23.74	33.00	PASS
EGPRS1900	661	2	3	22.86	22.69	33.00	PASS
EGPRS1900	661	2	4	19.22	19.05	33.00	PASS
EGPRS1900	810	2	1	25.73	25.56	33.00	PASS
EGPRS1900	810	2	2	24.45	24.28	33.00	PASS
EGPRS1900	810	2	3	23.38	23.21	33.00	PASS
EGPRS1900	810	2	4	21.07	20.9	33.00	PASS

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

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

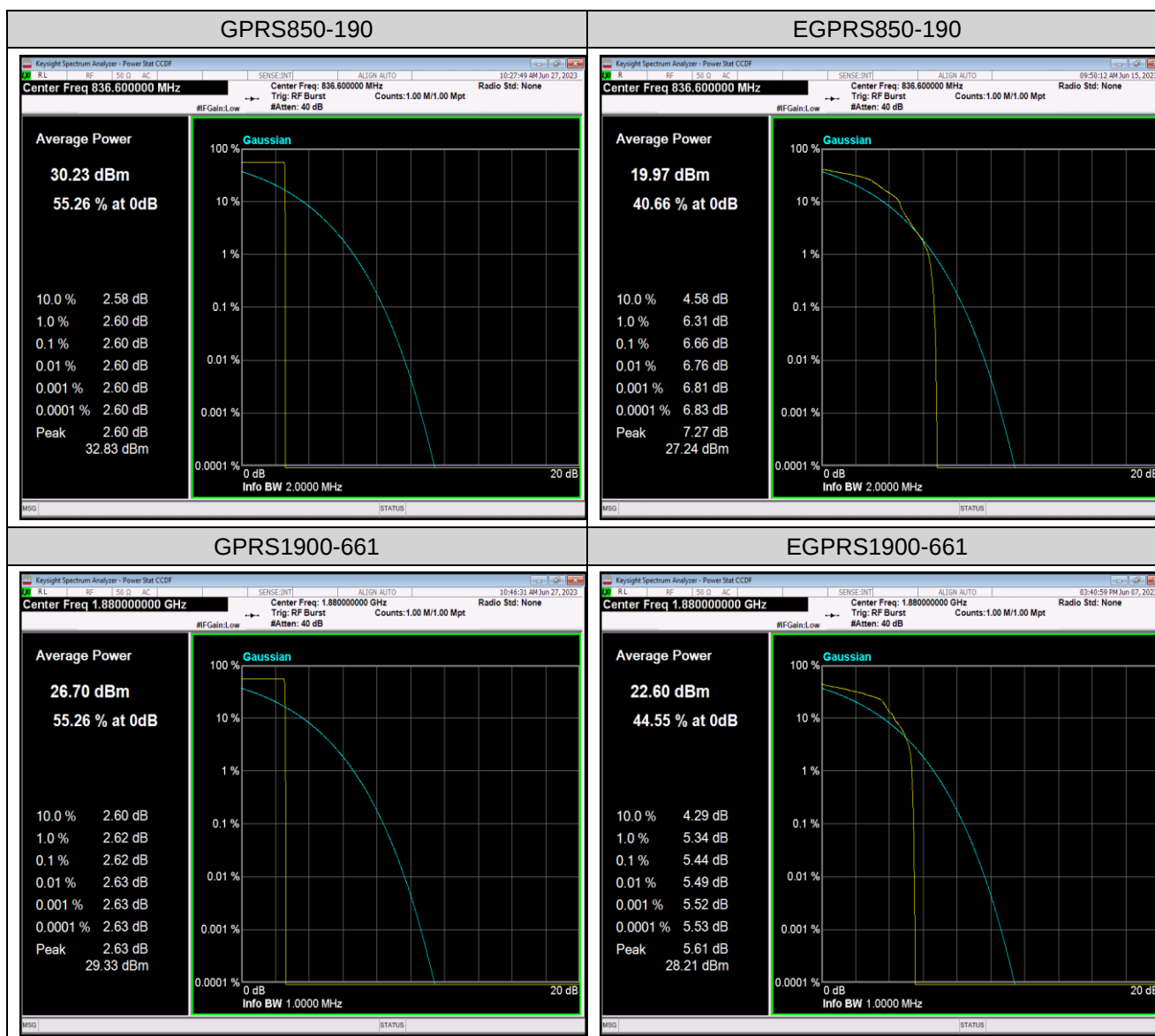
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	PCL	Result(dB)	Limit(dB)	Verdict
GPRS850	190	5	2.6	13	PASS
EGPRS850	190	8	6.66	13	PASS
GPRS1900	661	0	2.62	13	PASS
EGPRS1900	661	2	5.44	13	PASS

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

Test Graphs

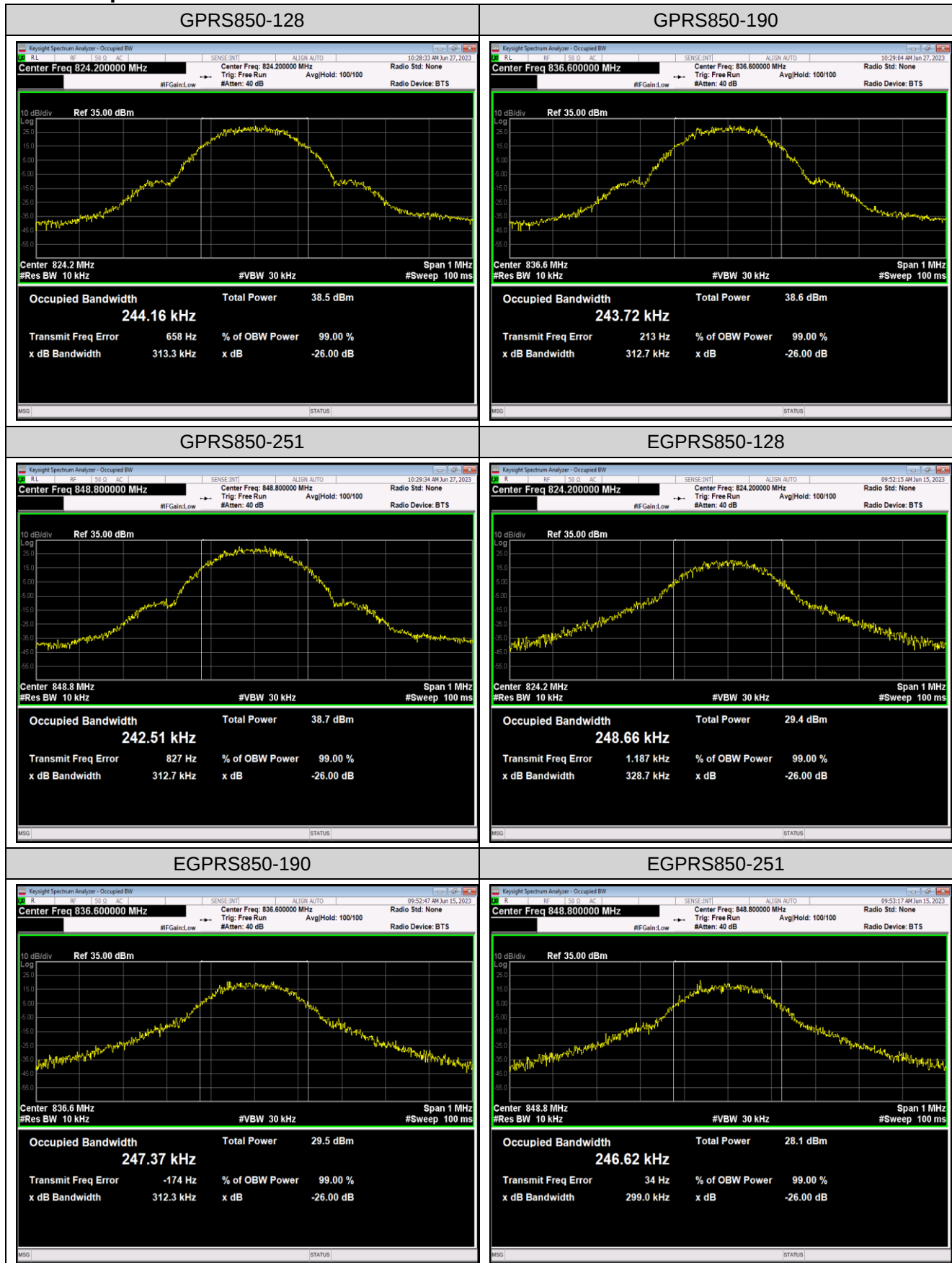


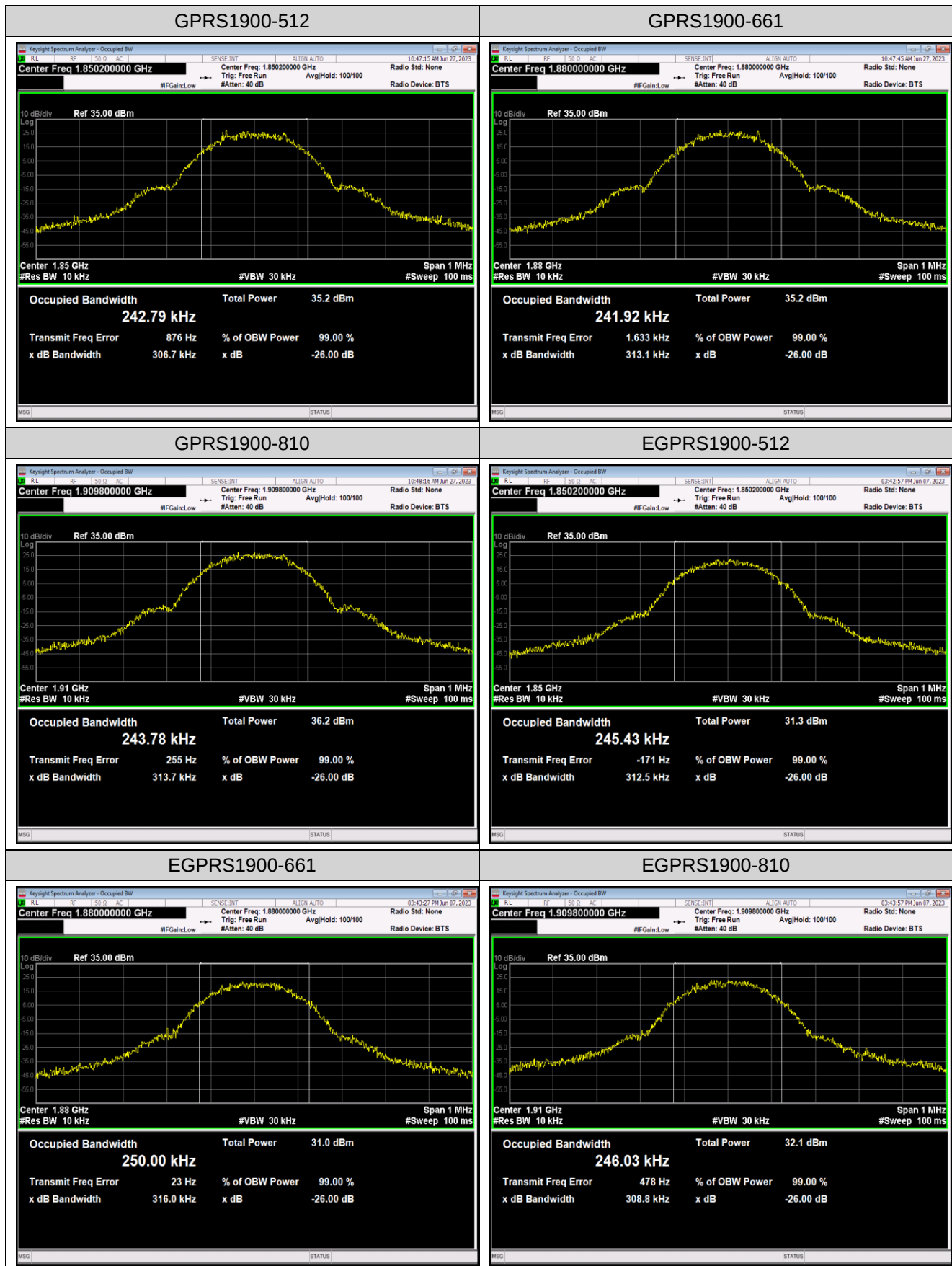
Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GPRS850	128	5	0.24416	0.3133	---	PASS
GPRS850	190	5	0.24372	0.3127	---	PASS
GPRS850	251	5	0.24251	0.3127	---	PASS
EGPRS850	128	8	0.24866	0.3287	---	PASS
EGPRS850	190	8	0.24737	0.3123	---	PASS
EGPRS850	251	8	0.24662	0.2990	---	PASS
GPRS1900	512	0	0.24279	0.3067	---	PASS
GPRS1900	661	0	0.24192	0.3131	---	PASS
GPRS1900	810	0	0.24378	0.3137	---	PASS
EGPRS1900	512	2	0.24543	0.3125	---	PASS
EGPRS1900	661	2	0.25000	0.3160	---	PASS
EGPRS1900	810	2	0.24603	0.3088	---	PASS

Test Graphs



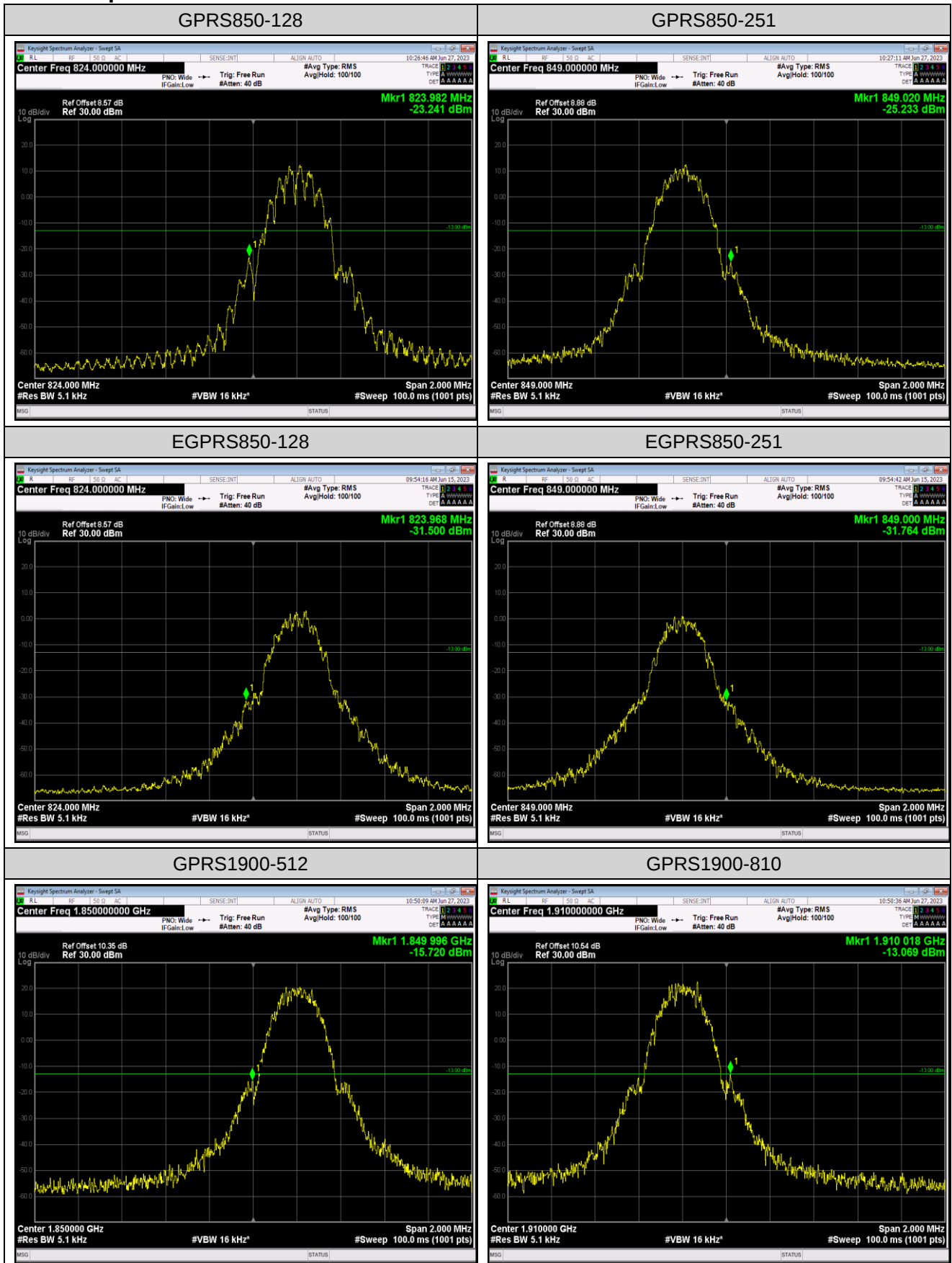


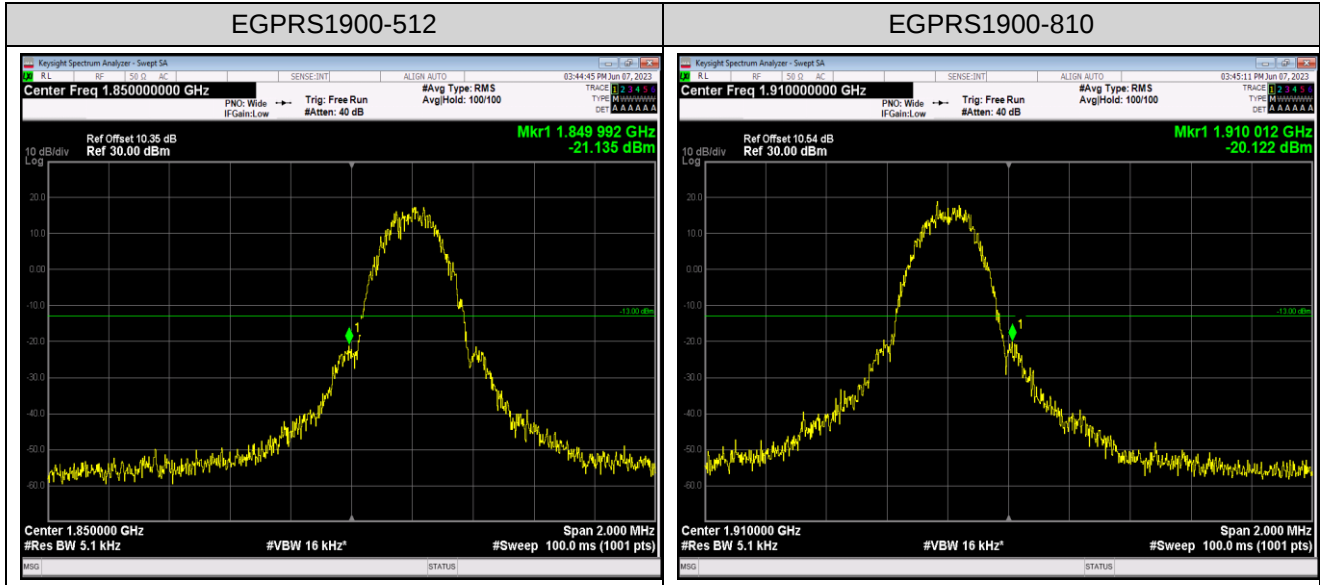
Appendix D: Band Edge

Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GPRS850	128	5	823.98	-23.24	-13	PASS
GPRS850	251	5	849.02	-25.23	-13	PASS
EGPRS850	128	8	823.97	-31.50	-13	PASS
EGPRS850	251	8	849.00	-31.76	-13	PASS
GPRS1900	512	0	1850.00	-15.72	-13	PASS
GPRS1900	810	0	1910.02	-13.07	-13	PASS
EGPRS1900	512	2	1849.99	-21.13	-13	PASS
EGPRS1900	810	2	1910.01	-20.12	-13	PASS

Test Graphs





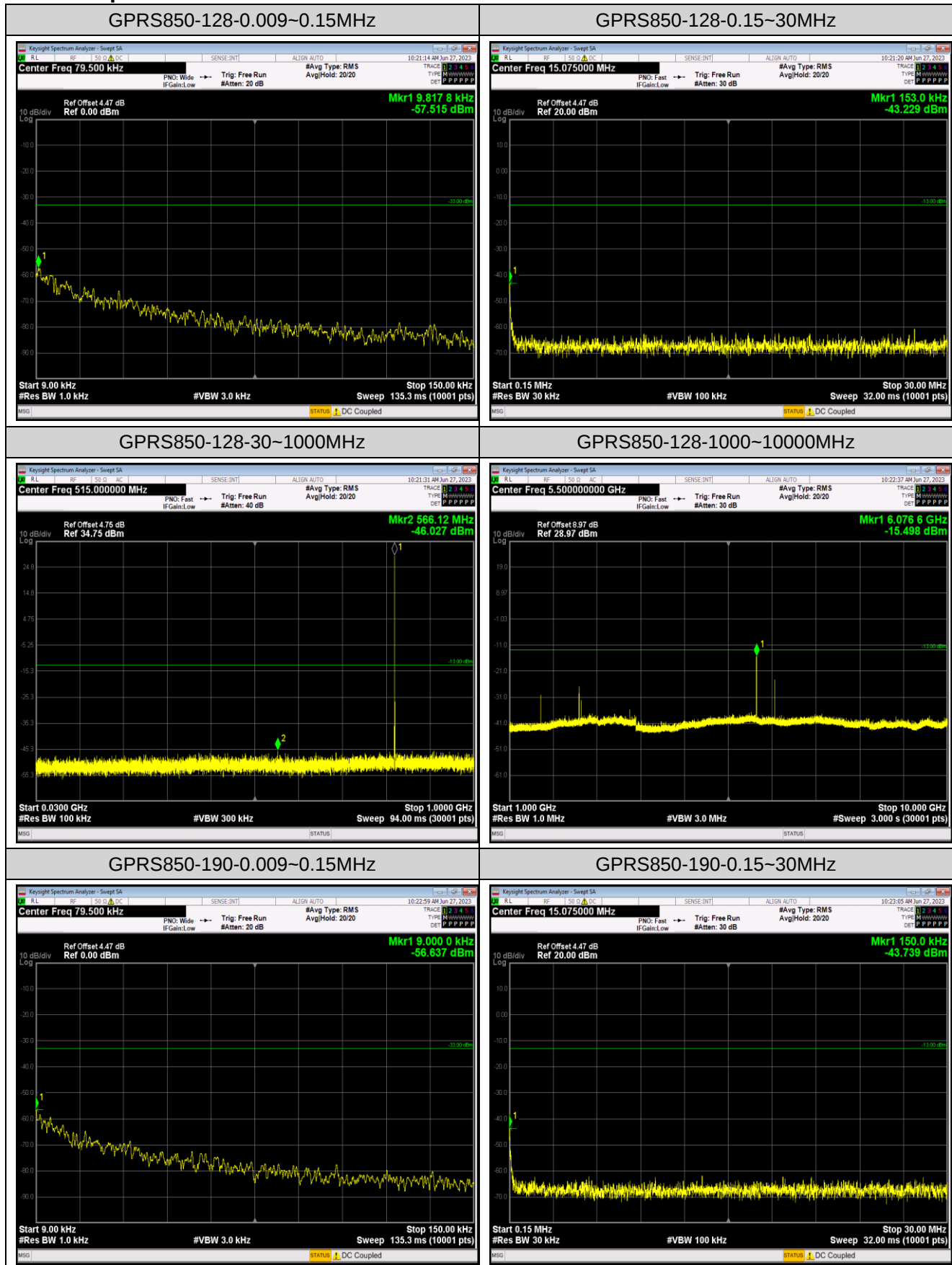
Appendix E: Conducted Spurious Emission

Test Result

Band	Channel	PCL	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GPRS850	128	5	0.009~0.15MHz	0.01	-57.52	-33	PASS
GPRS850	128	5	0.15~30MHz	0.15	-43.23	-13	PASS
GPRS850	128	5	30~1000MHz	566.12	-46.03	-13	PASS
GPRS850	128	5	1000~10000MHz	6076.6	-15.5	-13	PASS
GPRS850	190	5	0.009~0.15MHz	0.01	-56.64	-33	PASS
GPRS850	190	5	0.15~30MHz	0.15	-43.74	-13	PASS
GPRS850	190	5	30~1000MHz	389.93	-46	-13	PASS
GPRS850	190	5	1000~10000MHz	1673.2	-31.13	-13	PASS
GPRS850	251	5	0.009~0.15MHz	0.01	-54.11	-33	PASS
GPRS850	251	5	0.15~30MHz	0.16	-44.22	-13	PASS
GPRS850	251	5	30~1000MHz	687.21	-45.76	-13	PASS
GPRS850	251	5	1000~10000MHz	2437.9	-26.28	-13	PASS
GPRS1900	512	0	0.009~0.15MHz	0.01	-58.45	-43	PASS
GPRS1900	512	0	0.15~30MHz	0.15	-41.91	-23	PASS
GPRS1900	512	0	30~1000MHz	921.11	-45.94	-13	PASS
GPRS1900	512	0	1000~18000MHz	16189.5	-21.83	-13	PASS
GPRS1900	661	0	0.009~0.15MHz	0.01	-57.7	-43	PASS
GPRS1900	661	0	0.15~30MHz	0.15	-45.37	-23	PASS
GPRS1900	661	0	30~1000MHz	827.7	-47.04	-13	PASS
GPRS1900	661	0	1000~18000MHz	17046.3	-22.05	-13	PASS
GPRS1900	810	0	0.009~0.15MHz	0.01	-59.76	-43	PASS
GPRS1900	810	0	0.15~30MHz	0.16	-45.51	-23	PASS
GPRS1900	810	0	30~1000MHz	814.34	-45.89	-13	PASS
GPRS1900	810	0	1000~18000MHz	16949.97	-22.15	-13	PASS

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

Test Graphs

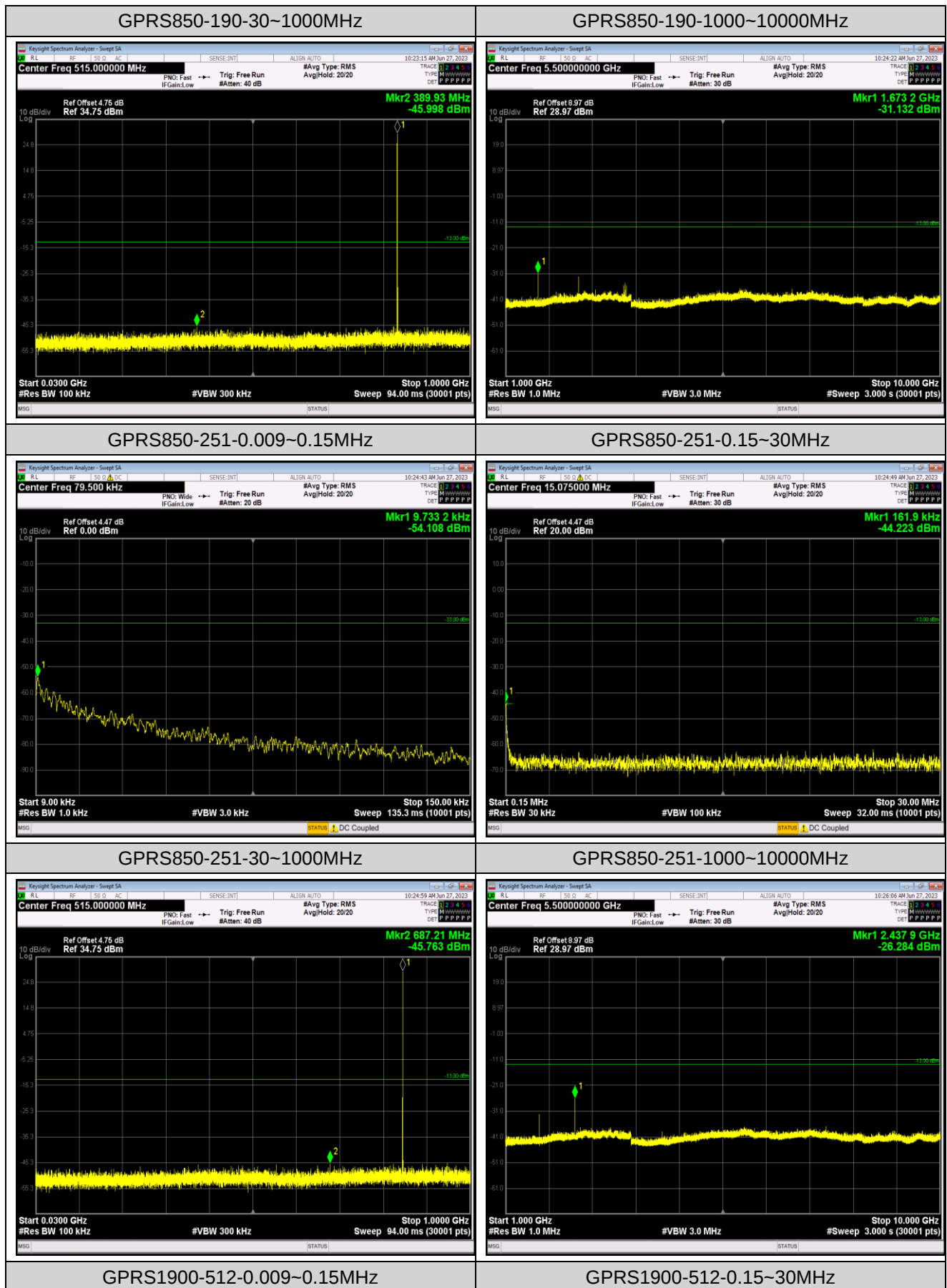


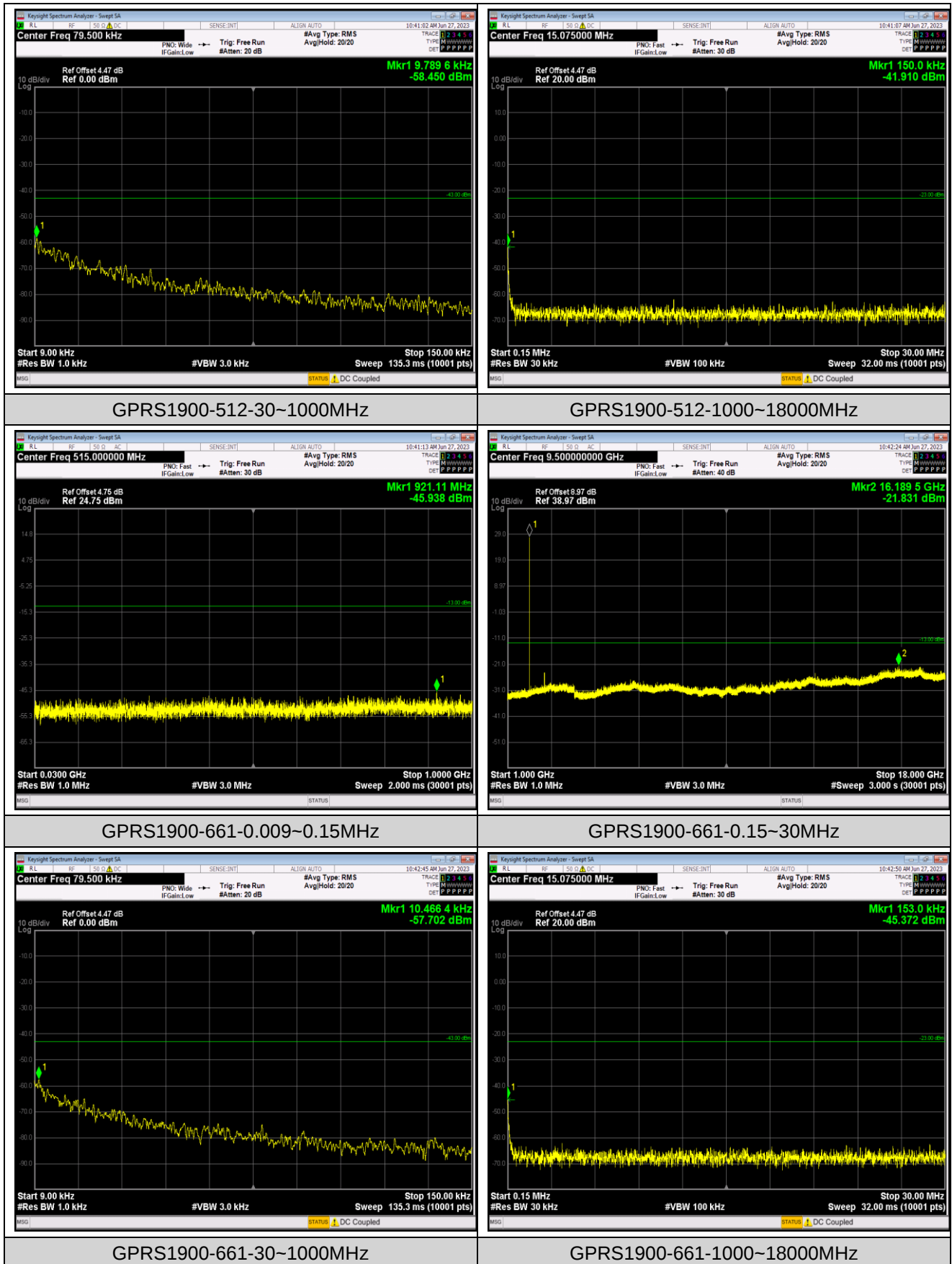
JianYan Testing Group Shenzhen Co., Ltd.

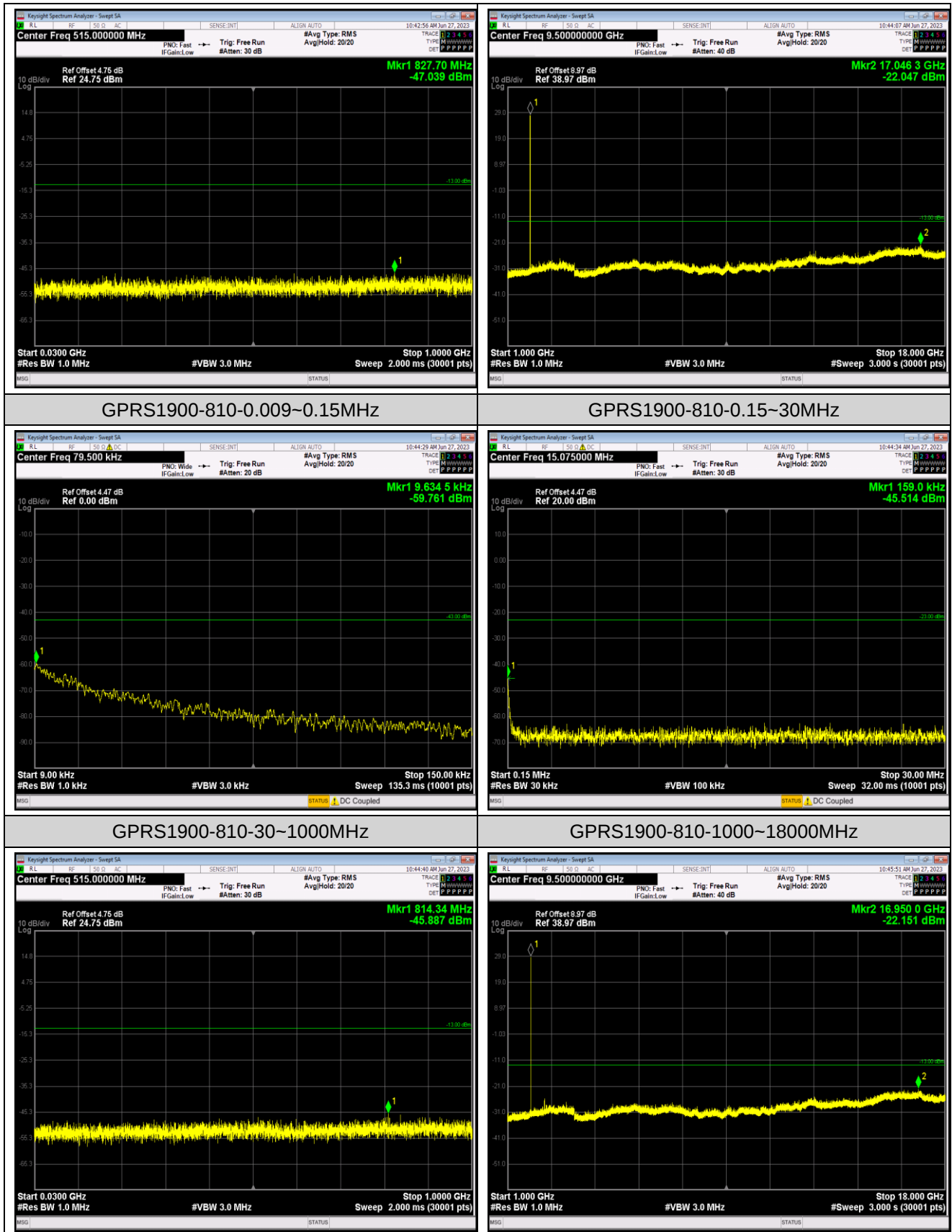
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Appendix F: Frequency Stability

Test Result

Reference Frequency: GPRS850 Middle channel=190 Frequency=836.6MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	8.07	0.009646	±2.5	Pass
	-20	9.23	0.011033		
	-10	4.26	0.005092		
	0	4.00	0.004781		
	10	8.81	0.010531		
	20	3.68	0.004399		
	30	6.33	0.007566		
	40	10.98	0.013125		
	50	4.10	0.004901		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	11.85	0.014164	±2.5	Pass
	3.70	6.20	0.007411		
	4.20	9.65	0.011535		
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		
3.70	-30	20.02	0.023930	±2.5	Pass
	-20	19.02	0.022735		
	-10	6.46	0.007722		
	0	1.74	0.002080		
	10	10.49	0.012539		
	20	-1.84	-0.002199		
	30	19.02	0.022735		
	40	13.04	0.015587		
	50	3.42	0.004088		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	5.10	0.006096	±2.5	Pass
	3.70	13.53	0.016173		
	4.20	19.66	0.023500		
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		
3.70	-30	11.62	0.006181	Within authorized band for PCS 1900	Pass
	-20	19.63	0.010441		
	-10	19.98	0.010628		
	0	12.59	0.006697		
	10	14.63	0.007782		
	20	15.59	0.008293		
	30	21.50	0.011436		
	40	11.75	0.006250		
	50	11.01	0.005856		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	15.40	0.008191	Within authorized band for PCS 1900	Pass
	3.70	14.46	0.007691		
	4.20	16.40	0.008723		
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		
3.70	-30	-0.74	-0.000394	Within authorized band for PCS 1900	Pass
	-20	-3.62	-0.001926		
	-10	5.20	0.002766		
	0	4.36	0.002319		
	10	-1.42	-0.000755		
	20	1.29	0.000686		
	30	4.97	0.002644		
	40	-6.10	-0.003245		
	50	-6.07	-0.003229		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	-3.03	-0.001612	Within authorized band for PCS 1900	Pass
	3.70	7.33	0.003899		
	4.20	-5.10	-0.002713		
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
GPRS850	190	PASS	PASS
EGPRS850	190	PASS	PASS
GPRS1900	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

