

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	32.79	31.14	38.45	PASS
GSM850	190	5	32.84	31.19	38.45	PASS
GSM850	251	5	32.74	31.09	38.45	PASS
GSM1900	512	0	29.13	31.13	33.00	PASS
GSM1900	661	0	29.16	31.16	33.00	PASS
GSM1900	810	0	29.39	31.39	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	5	1	32.71	31.06	38.45	PASS
GPRS850	128	5	2	30.67	29.02	38.45	PASS
GPRS850	128	5	3	28.71	27.06	38.45	PASS
GPRS850	128	5	4	26.41	24.76	38.45	PASS
GPRS850	190	5	1	32.78	31.13	38.45	PASS
GPRS850	190	5	2	30.75	29.1	38.45	PASS
GPRS850	190	5	3	28.80	27.15	38.45	PASS
GPRS850	190	5	4	26.48	24.83	38.45	PASS
GPRS850	251	5	1	32.71	31.06	38.45	PASS
GPRS850	251	5	2	30.54	28.89	38.45	PASS
GPRS850	251	5	3	28.57	26.92	38.45	PASS
GPRS850	251	5	4	26.32	24.67	38.45	PASS
GPRS1900	512	0	1	29.24	31.24	33.00	PASS
GPRS1900	512	0	2	27.27	29.27	33.00	PASS
GPRS1900	512	0	3	25.69	27.69	33.00	PASS
GPRS1900	512	0	4	23.52	25.52	33.00	PASS
GPRS1900	661	0	1	29.32	31.32	33.00	PASS
GPRS1900	661	0	2	26.89	28.89	33.00	PASS
GPRS1900	661	0	3	25.28	27.28	33.00	PASS
GPRS1900	661	0	4	23.17	25.17	33.00	PASS
GPRS1900	810	0	1	29.49	31.49	33.00	PASS
GPRS1900	810	0	2	26.67	28.67	33.00	PASS
GPRS1900	810	0	3	25.05	27.05	33.00	PASS
GPRS1900	810	0	4	22.90	24.9	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
EGPRS850	128	8	1	27.69	26.04	38.45	PASS
EGPRS850	128	8	2	26.17	24.52	38.45	PASS
EGPRS850	128	8	3	23.90	22.25	38.45	PASS
EGPRS850	128	8	4	21.43	19.78	38.45	PASS
EGPRS850	190	8	1	27.81	26.16	38.45	PASS
EGPRS850	190	8	2	26.36	24.71	38.45	PASS
EGPRS850	190	8	3	24.09	22.44	38.45	PASS
EGPRS850	190	8	4	21.57	19.92	38.45	PASS
EGPRS850	251	8	1	27.69	26.04	38.45	PASS
EGPRS850	251	8	2	26.27	24.62	38.45	PASS
EGPRS850	251	8	3	23.99	22.34	38.45	PASS
EGPRS850	251	8	4	21.45	19.8	38.45	PASS
EGPRS1900	512	2	1	26.78	28.78	33.00	PASS
EGPRS1900	512	2	2	25.06	27.06	33.00	PASS
EGPRS1900	512	2	3	23.51	25.51	33.00	PASS
EGPRS1900	512	2	4	20.45	22.45	33.00	PASS
EGPRS1900	661	2	1	26.88	28.88	33.00	PASS
EGPRS1900	661	2	2	25.25	27.25	33.00	PASS
EGPRS1900	661	2	3	23.97	25.97	33.00	PASS
EGPRS1900	661	2	4	22.08	24.08	33.00	PASS
EGPRS1900	810	2	1	26.14	28.14	33.00	PASS
EGPRS1900	810	2	2	24.50	26.5	33.00	PASS
EGPRS1900	810	2	3	23.73	25.73	33.00	PASS
EGPRS1900	810	2	4	21.55	23.55	33.00	PASS

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

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

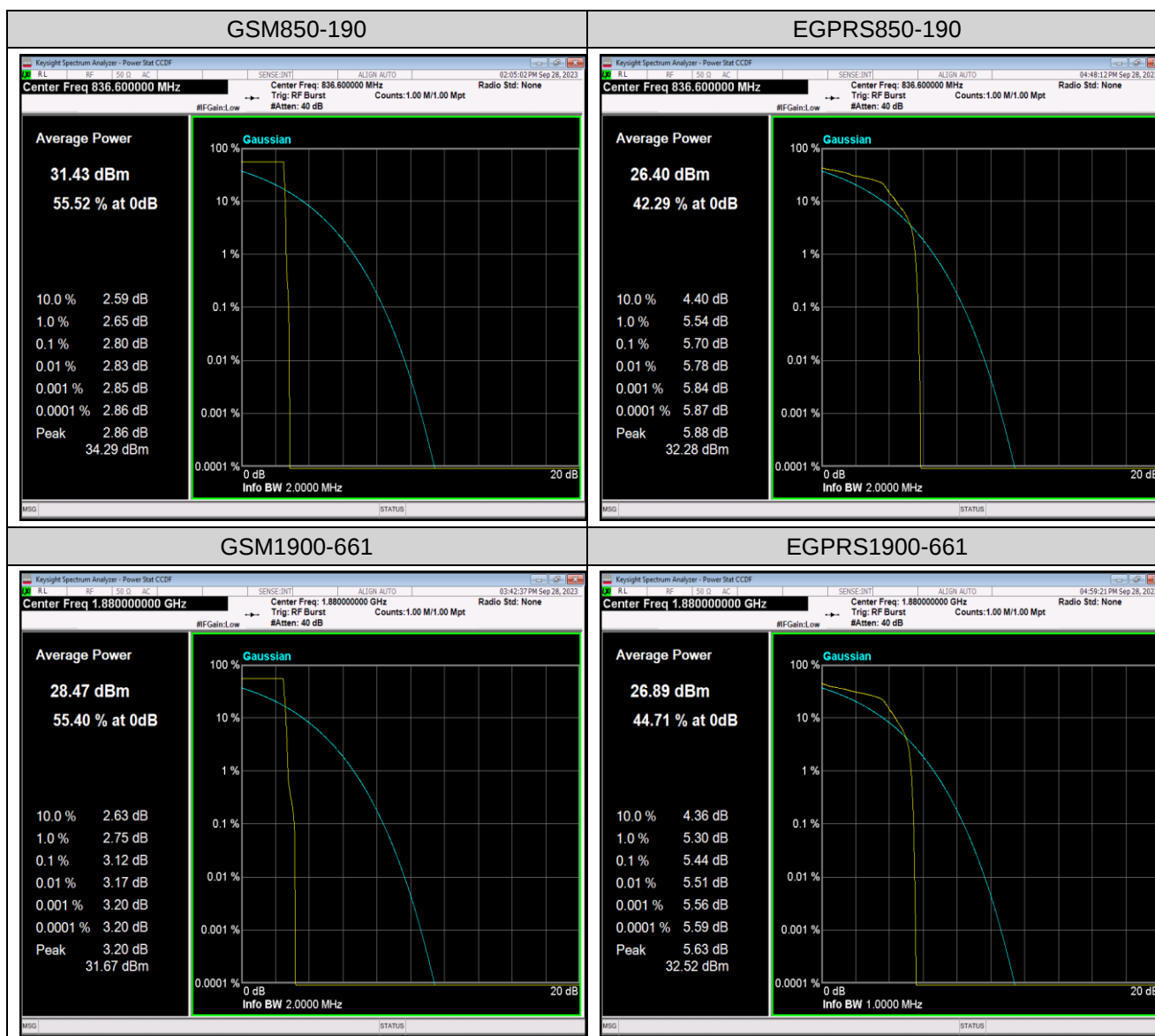
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	PCL	Result(dB)	Limit(dB)	Verdict
GSM850	190	5	2.8	13	PASS
EGPRS850	190	8	5.7	13	PASS
GSM1900	661	0	3.12	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

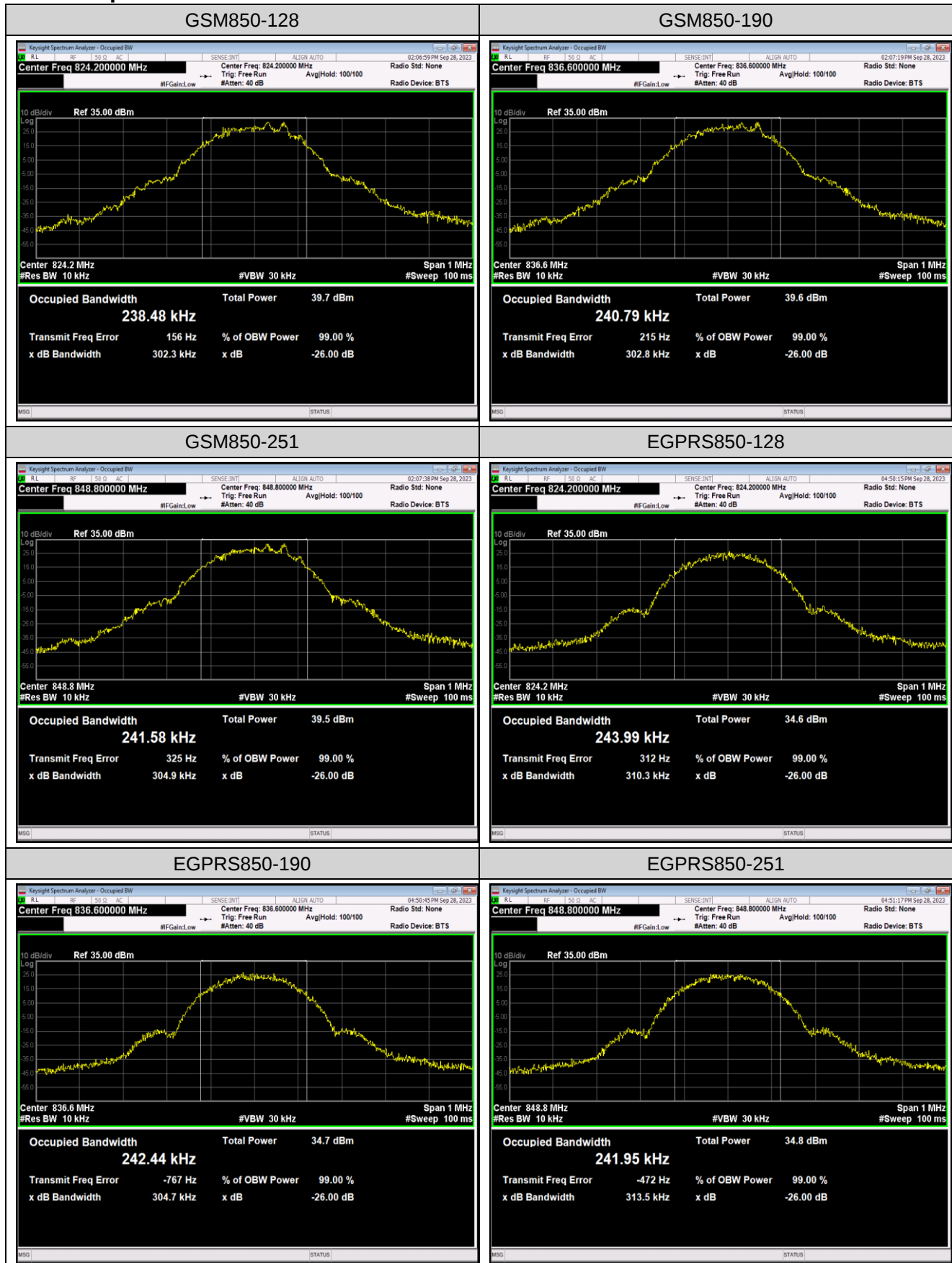


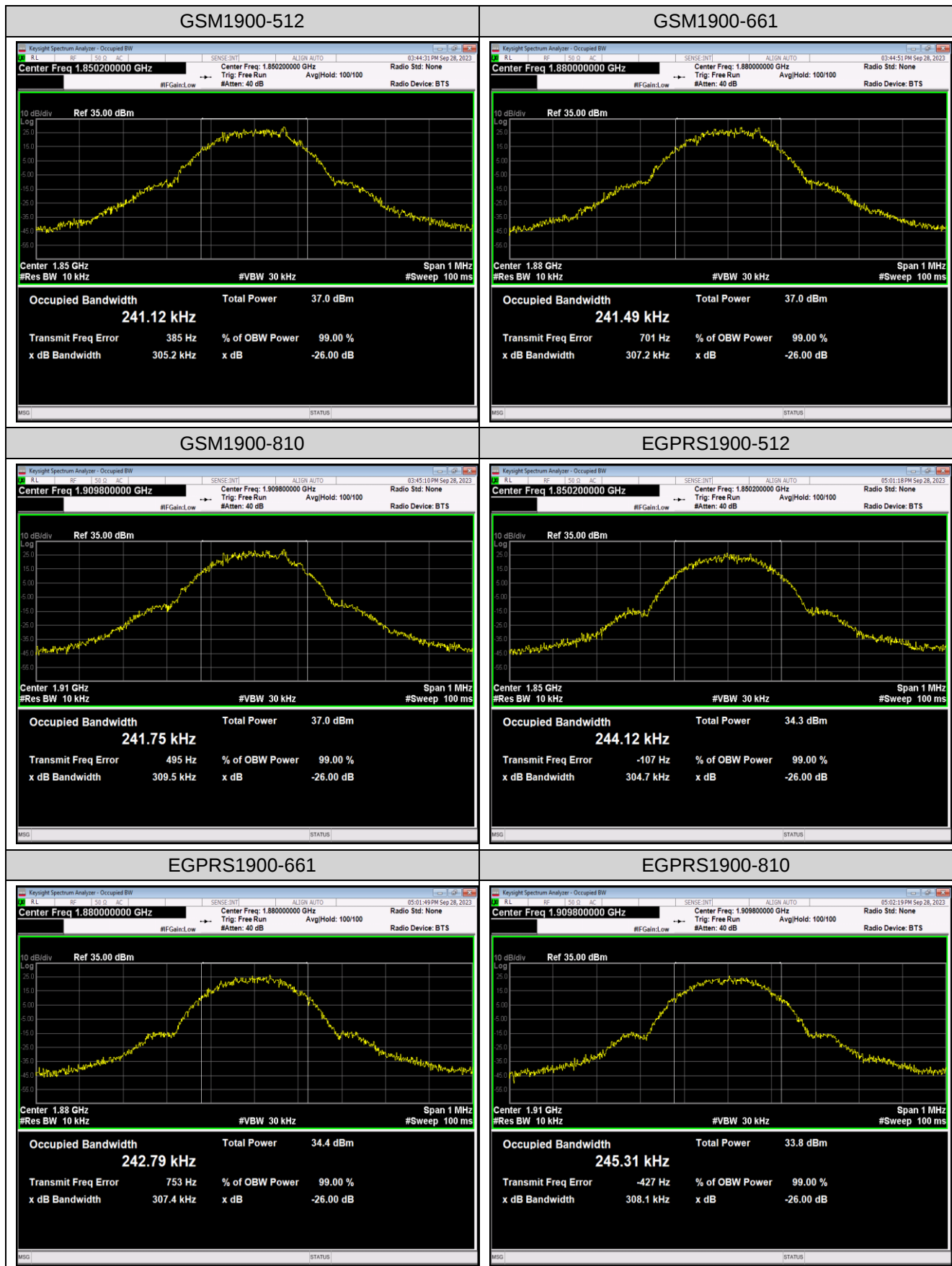
Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	5	0.23848	0.3023	---	PASS
GSM850	190	5	0.24079	0.3028	---	PASS
GSM850	251	5	0.24158	0.3049	---	PASS
EGPRS850	128	8	0.24399	0.3103	---	PASS
EGPRS850	190	8	0.24244	0.3047	---	PASS
EGPRS850	251	8	0.24195	0.3135	---	PASS
GSM1900	512	0	0.24112	0.3052	---	PASS
GSM1900	661	0	0.24149	0.3072	---	PASS
GSM1900	810	0	0.24175	0.3095	---	PASS
EGPRS1900	512	2	0.24412	0.3047	---	PASS
EGPRS1900	661	2	0.24279	0.3074	---	PASS
EGPRS1900	810	2	0.24531	0.3081	---	PASS

Test Graphs



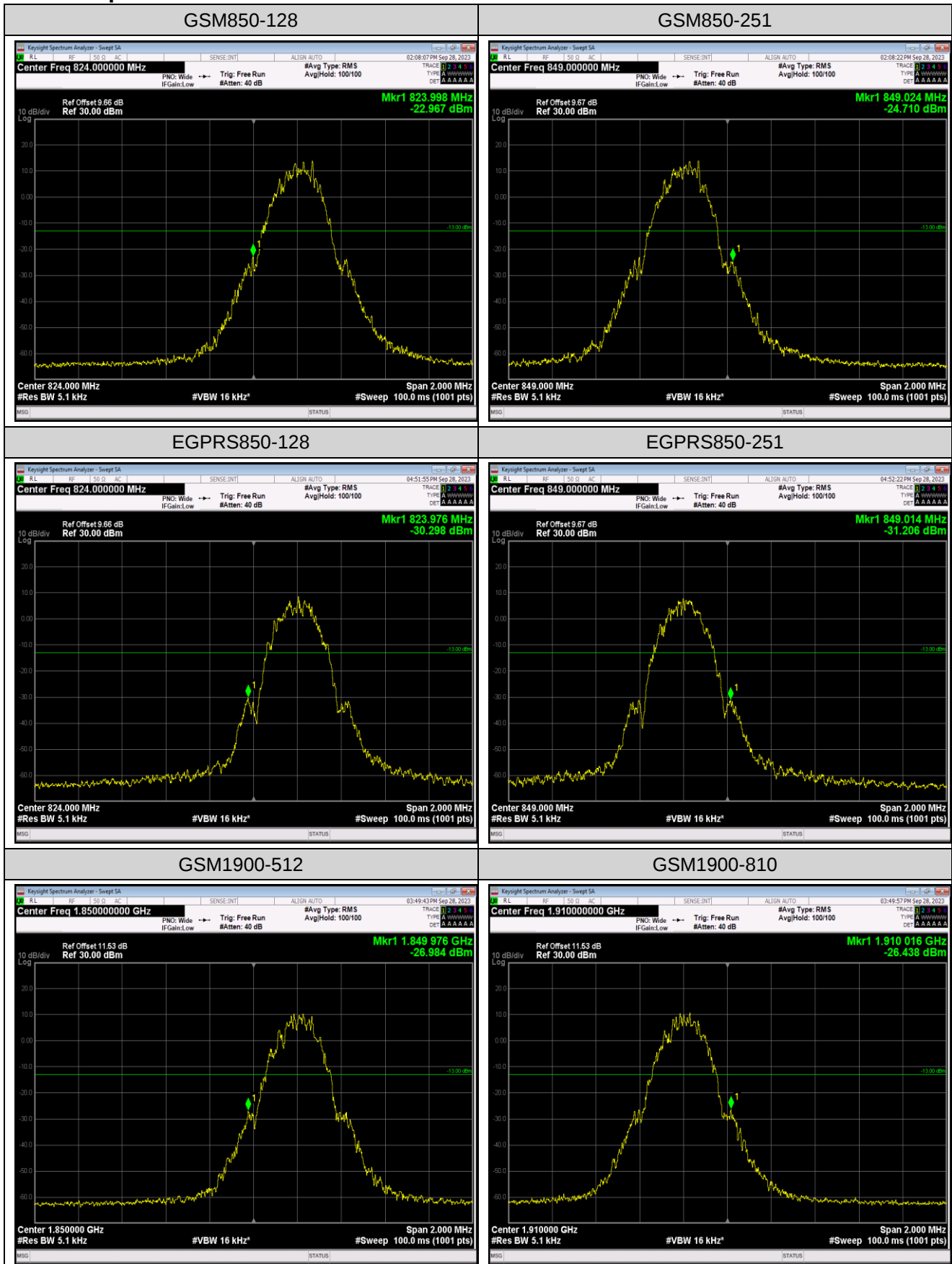


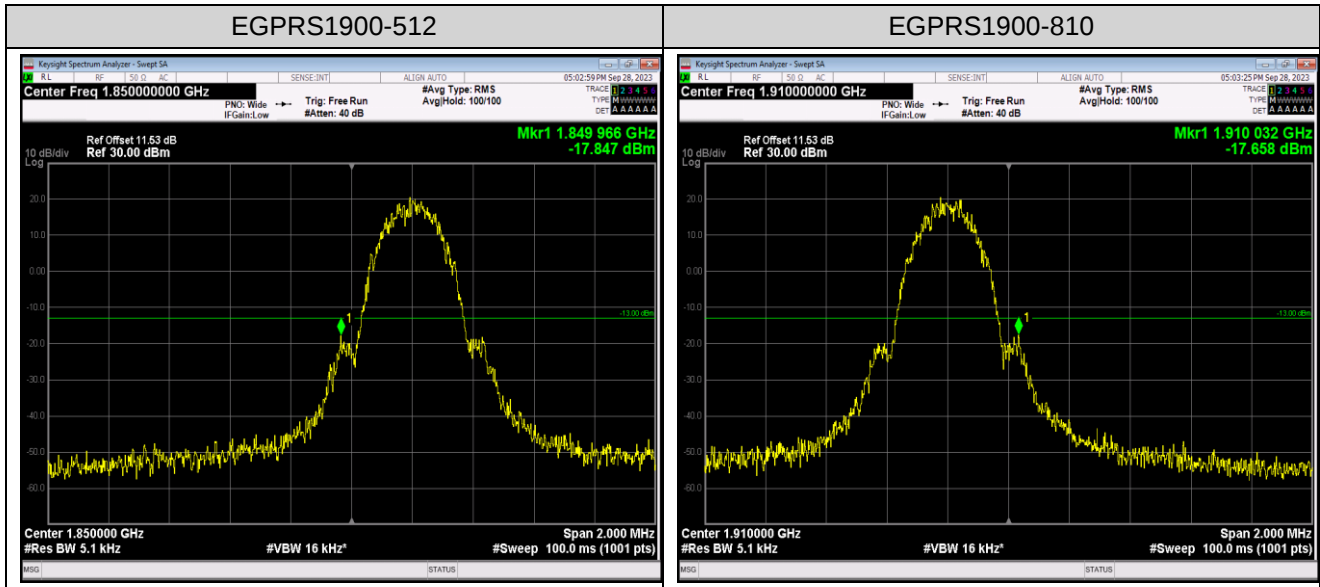
Appendix D: Band Edge

Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	5	824.00	-22.97	-13	PASS
GSM850	251	5	849.02	-24.71	-13	PASS
EGPRS850	128	8	823.98	-30.30	-13	PASS
EGPRS850	251	8	849.01	-31.21	-13	PASS
GSM1900	512	0	1849.98	-26.98	-13	PASS
GSM1900	810	0	1910.02	-26.44	-13	PASS
EGPRS1900	512	2	1849.97	-17.85	-13	PASS
EGPRS1900	810	2	1910.03	-17.66	-13	PASS

Test Graphs





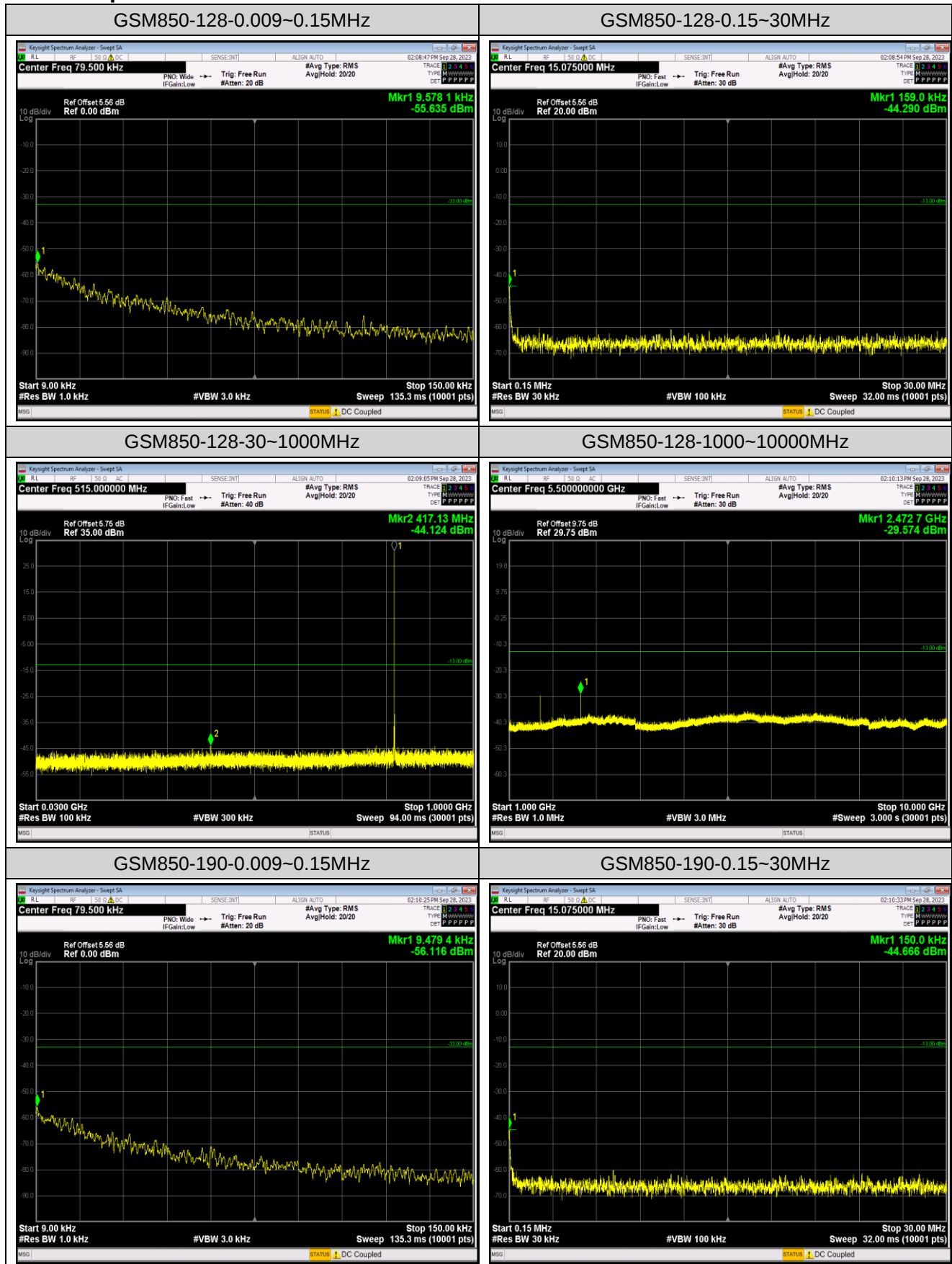
Appendix E: Conducted Spurious Emission

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	-55.64	-33	PASS
GSM850	128	5	0.15~30MHz	0.16	-44.29	-13	PASS
GSM850	128	5	30~1000MHz	417.13	-44.12	-13	PASS
GSM850	128	5	1000~10000MHz	2472.7	-29.57	-13	PASS
GSM850	190	5	0.009~0.15MHz	0.01	-56.12	-33	PASS
GSM850	190	5	0.15~30MHz	0.15	-44.67	-13	PASS
GSM850	190	5	30~1000MHz	969.06	-44.04	-13	PASS
GSM850	190	5	1000~10000MHz	2509.3	-29.72	-13	PASS
GSM850	251	5	0.009~0.15MHz	0.01	-56.3	-33	PASS
GSM850	251	5	0.15~30MHz	0.15	-44.44	-13	PASS
GSM850	251	5	30~1000MHz	954.41	-43.67	-13	PASS
GSM850	251	5	1000~10000MHz	1697.5	-29.49	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-55.89	-43	PASS
GSM1900	512	0	0.15~30MHz	0.15	-41.24	-23	PASS
GSM1900	512	0	30~1000MHz	823.91	-44.09	-13	PASS
GSM1900	512	0	1000~18000MHz	16204.23	-21.01	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-57.09	-43	PASS
GSM1900	661	0	0.15~30MHz	0.15	-42.92	-23	PASS
GSM1900	661	0	30~1000MHz	787.21	-44.45	-13	PASS
GSM1900	661	0	1000~18000MHz	17046.3	-21.67	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-56.61	-43	PASS
GSM1900	810	0	0.15~30MHz	0.15	-44.03	-23	PASS
GSM1900	810	0	30~1000MHz	770.6	-45.14	-13	PASS
GSM1900	810	0	1000~18000MHz	17032.13	-21.89	-13	PASS

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

Test Graphs

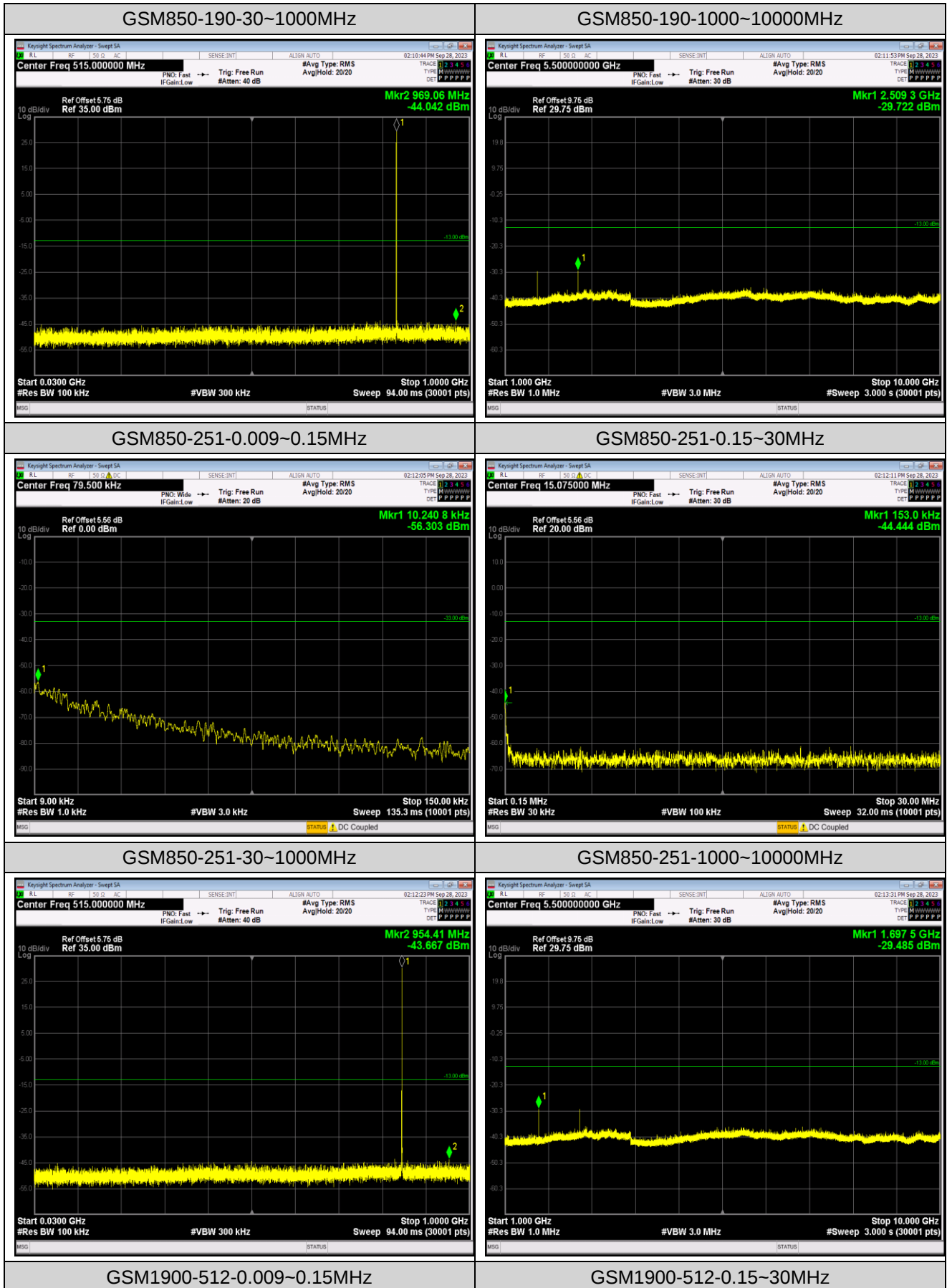


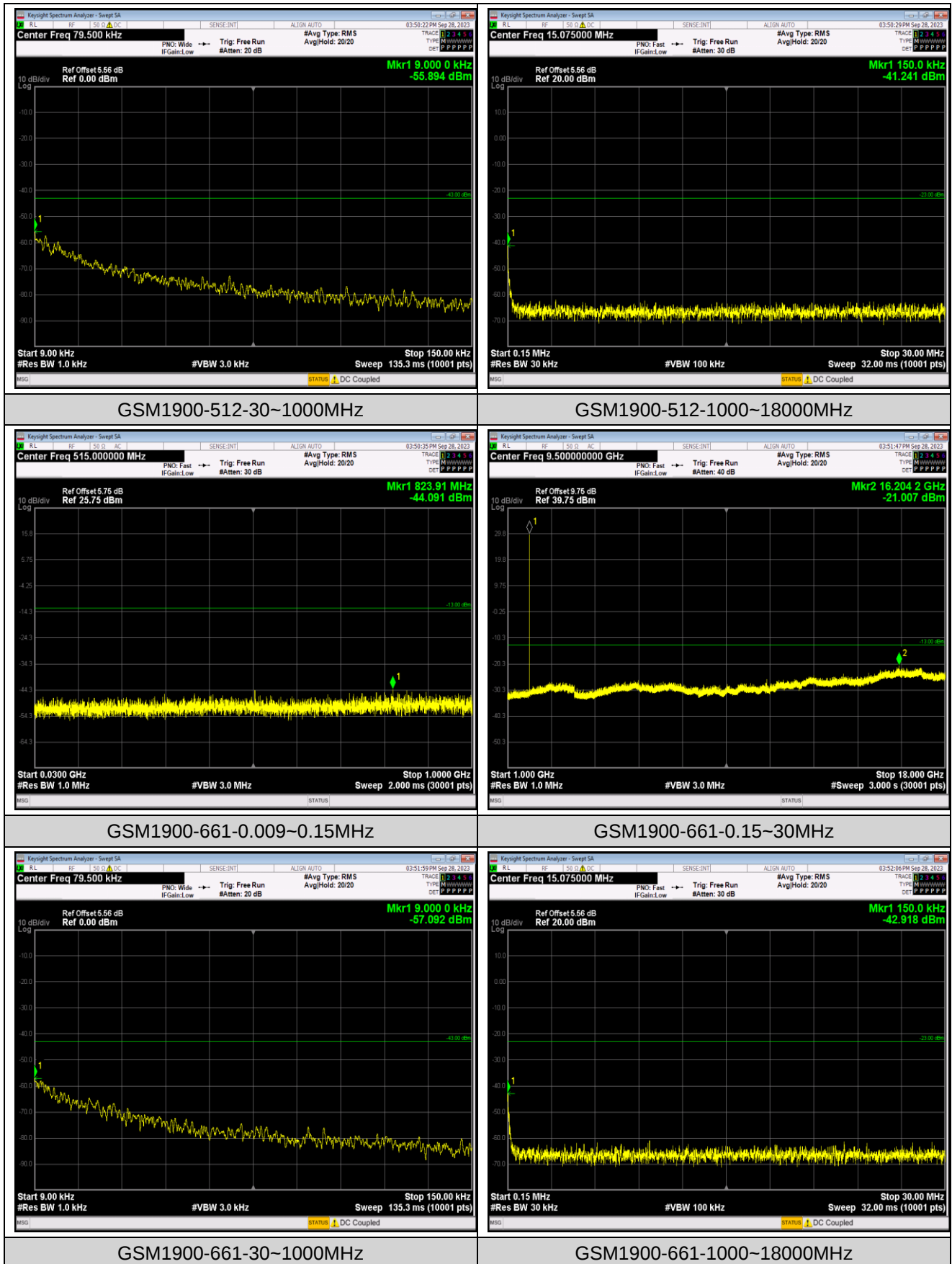
JianYan Testing Group Shenzhen Co., Ltd.

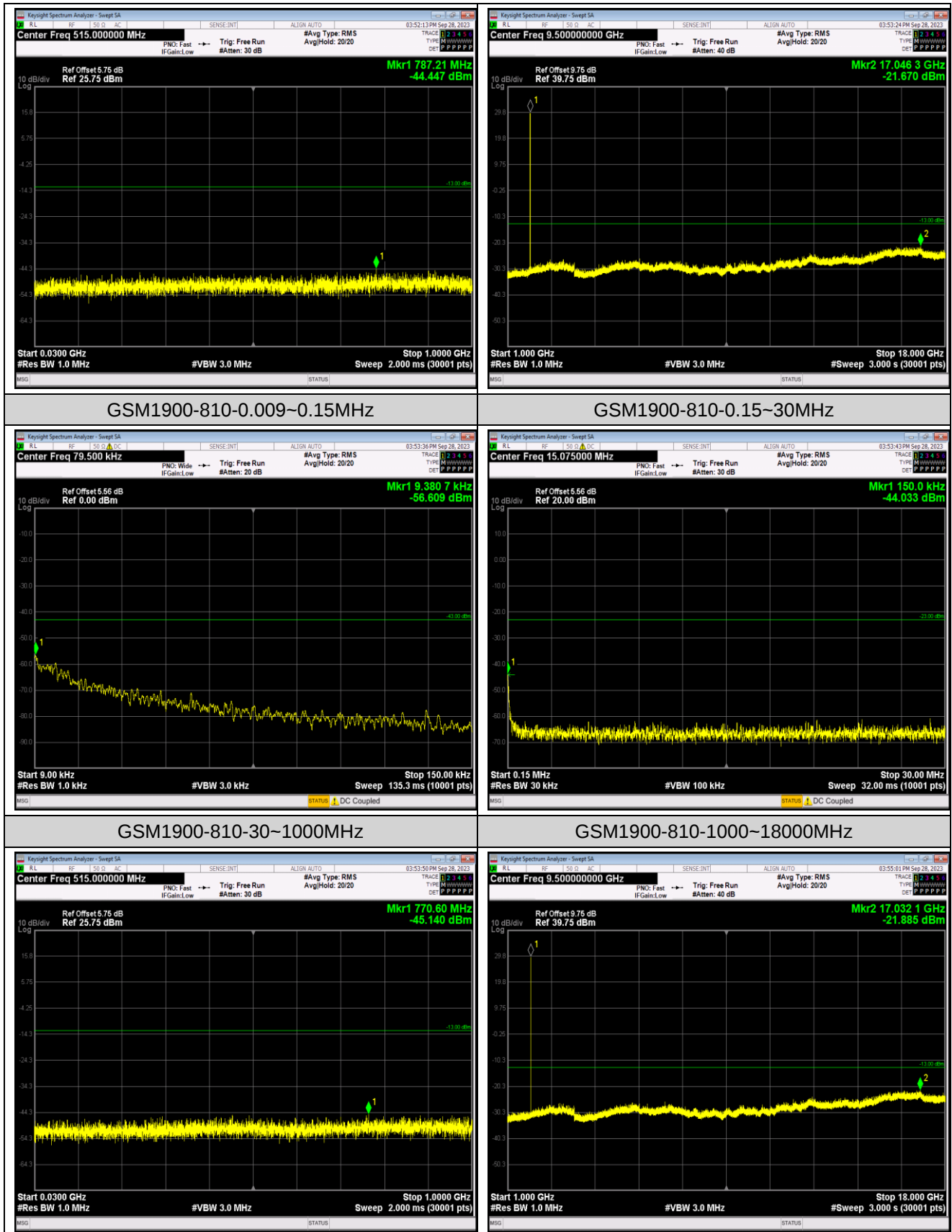
No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

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

Project No.: JYTSZR2309027







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		
3.70	-30	2.16	0.002582	±2.5	Pass
	-20	2.29	0.002737		
	-10	-2.58	-0.003084		
	0	-8.49	-0.010148		
	10	9.94	0.011881		
	20	0.97	0.001159		
	30	-0.68	-0.000813		
	40	3.16	0.003777		
	50	-1.81	-0.002164		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.33	6.33	0.007566	±2.5	Pass
	3.70	5.23	0.006251		
	4.07	1.61	0.001924		
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	3.97	0.004745	±2.5	Pass
	-20	5.81	0.006945		
	-10	2.91	0.003478		
	0	2.52	0.003012		
	10	4.81	0.005749		
	20	7.01	0.008379		
	30	9.94	0.011881		
	40	11.33	0.013543		
	50	10.43	0.012467		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.33	4.97	0.005941	±2.5	Pass
	3.70	10.49	0.012539		
	4.07	8.85	0.010579		
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	4.97	0.002644	Within authorized band for PCS 1900	Pass
	-20	9.85	0.005239		
	-10	8.68	0.004617		
	0	12.62	0.006713		
	10	9.52	0.005064		
	20	11.30	0.006011		
	30	11.17	0.005941		
	40	6.20	0.003298		
	50	2.81	0.001495		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.33	0.36	0.000191	Within authorized band for PCS 1900	Pass
	3.70	-3.36	-0.001787		
	4.07	1.36	0.000723		
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	18.56	0.009872	Within authorized band for PCS 1900	Pass
	-20	5.20	0.002766		
	-10	6.84	0.003638		
	0	2.23	0.001186		
	10	-7.14	-0.003798		
	20	-5.59	-0.002973		
	30	-0.90	-0.000479		
	40	1.10	0.000585		
	50	-2.07	-0.001101		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.33	6.20	0.003298	Within authorized band for PCS 1900	Pass
	3.70	18.56	0.009872		
	4.07	18.21	0.009686		
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

