

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	33.00	30.2	38.45	PASS
GSM850	190	5	33.15	30.35	38.45	PASS
GSM850	251	5	33.12	30.32	38.45	PASS
GSM1900	512	0	30.31	30.04	33.00	PASS
GSM1900	661	0	30.03	29.76	33.00	PASS
GSM1900	810	0	30.19	29.92	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	5	1	32.96	30.16	38.45	PASS
GPRS850	128	5	2	30.70	27.9	38.45	PASS
GPRS850	128	5	3	28.70	25.9	38.45	PASS
GPRS850	128	5	4	26.36	23.56	38.45	PASS
GPRS850	190	5	1	33.13	30.33	38.45	PASS
GPRS850	190	5	2	30.92	28.12	38.45	PASS
GPRS850	190	5	3	28.92	26.12	38.45	PASS
GPRS850	190	5	4	26.62	23.82	38.45	PASS
GPRS850	251	5	1	33.08	30.28	38.45	PASS
GPRS850	251	5	2	30.86	28.06	38.45	PASS
GPRS850	251	5	3	28.85	26.05	38.45	PASS
GPRS850	251	5	4	26.55	23.75	38.45	PASS
GPRS1900	512	0	1	30.33	30.06	33.00	PASS
GPRS1900	512	0	2	28.02	27.75	33.00	PASS
GPRS1900	512	0	3	26.43	26.16	33.00	PASS
GPRS1900	512	0	4	24.43	24.16	33.00	PASS
GPRS1900	661	0	1	30.08	29.81	33.00	PASS
GPRS1900	661	0	2	27.78	27.51	33.00	PASS
GPRS1900	661	0	3	26.18	25.91	33.00	PASS
GPRS1900	661	0	4	24.18	23.91	33.00	PASS
GPRS1900	810	0	1	30.21	29.94	33.00	PASS
GPRS1900	810	0	2	27.89	27.62	33.00	PASS
GPRS1900	810	0	3	26.29	26.02	33.00	PASS
GPRS1900	810	0	4	24.29	24.02	33.00	PASS

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

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

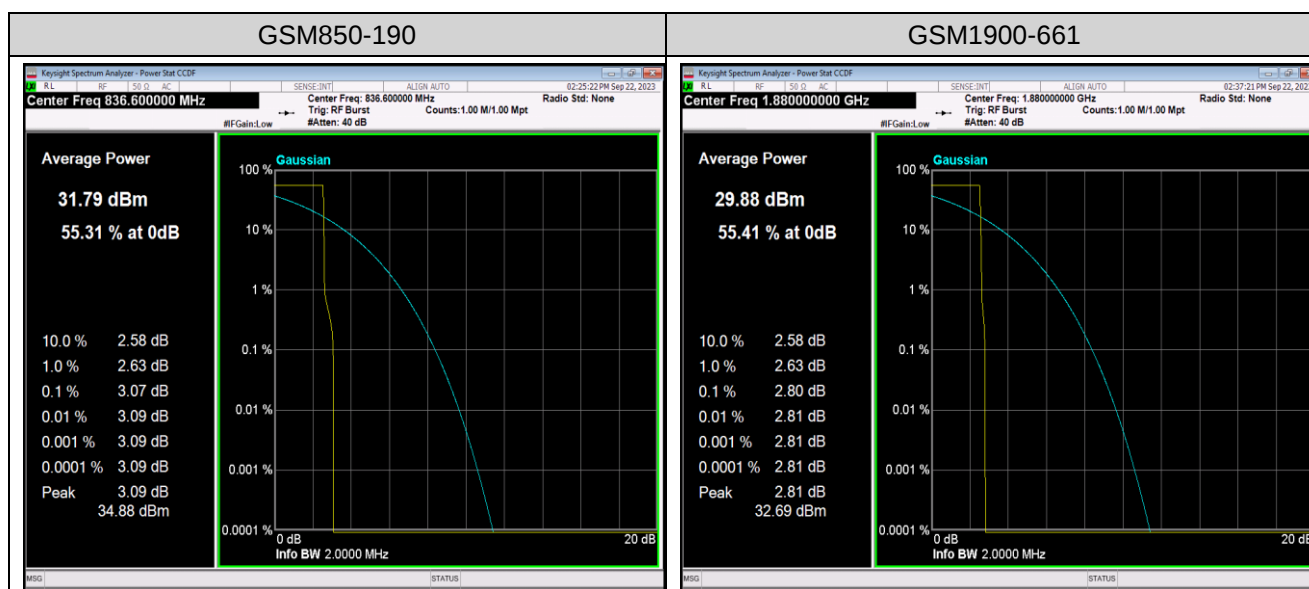
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	PCL	Result(dB)	Limit(dB)	Verdict
GSM850	190	5	3.07	13	PASS
GSM1900	661	0	2.8	13	PASS

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

Test Graphs

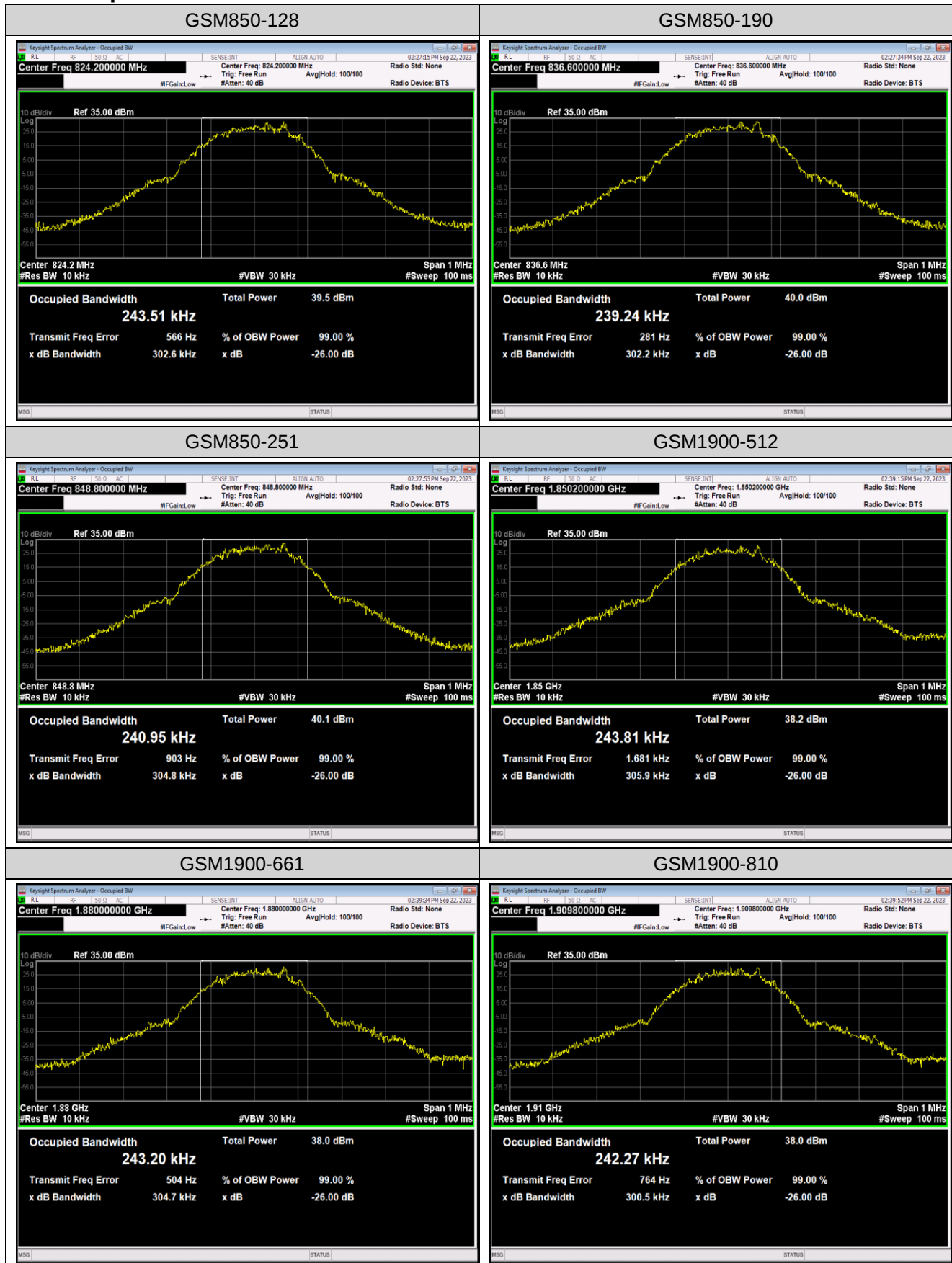


Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	5	0.24351	0.3026	---	PASS
GSM850	190	5	0.23924	0.3022	---	PASS
GSM850	251	5	0.24095	0.3048	---	PASS
GSM1900	512	0	0.24381	0.3059	---	PASS
GSM1900	661	0	0.24320	0.3047	---	PASS
GSM1900	810	0	0.24227	0.3005	---	PASS

Test Graphs

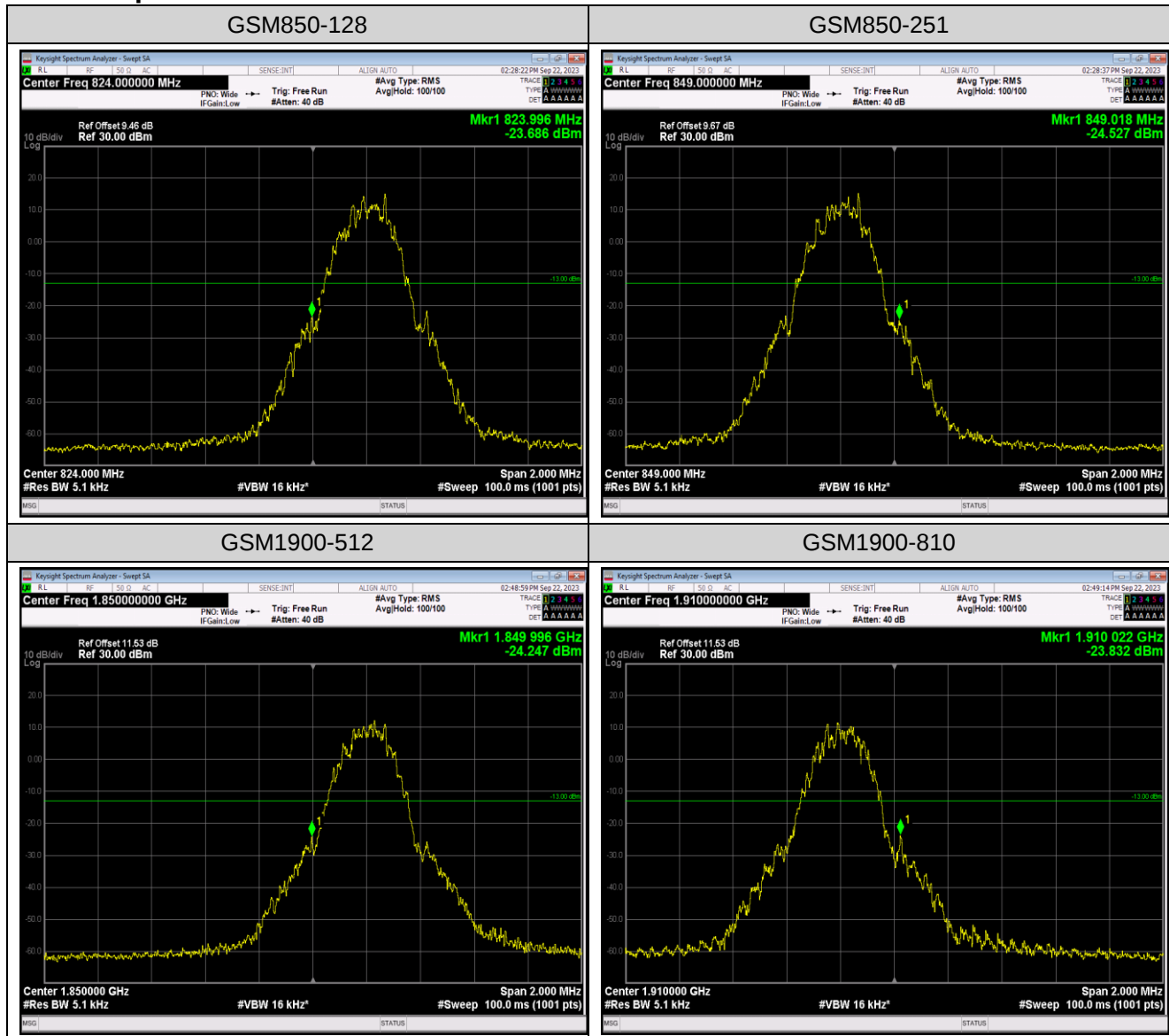


Appendix D: Band Edge

Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	5	824.00	-23.69	-13	PASS
GSM850	251	5	849.02	-24.53	-13	PASS
GSM1900	512	0	1850.00	-24.25	-13	PASS
GSM1900	810	0	1910.02	-23.83	-13	PASS

Test Graphs



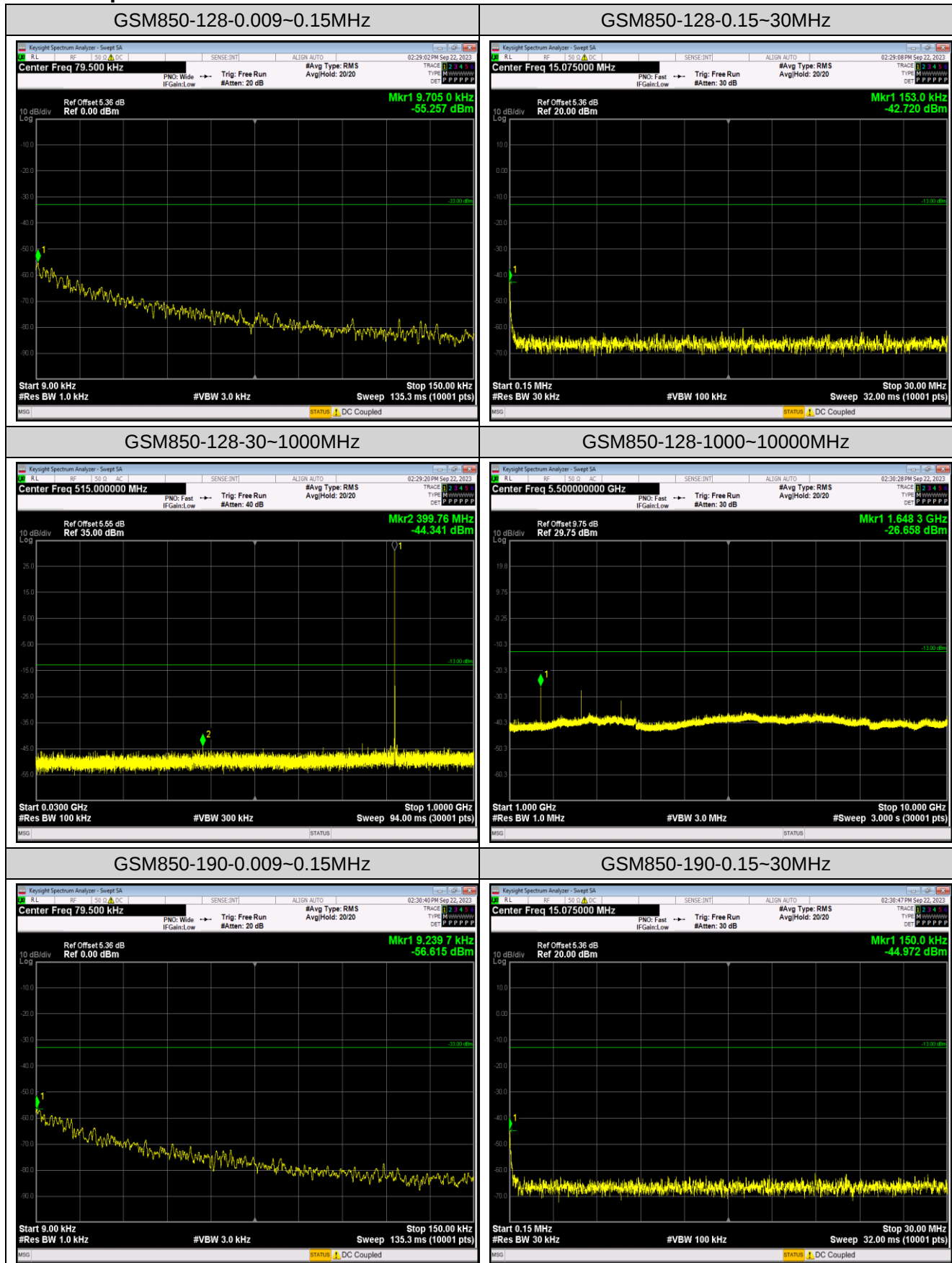
Appendix E: Conducted Spurious Emission

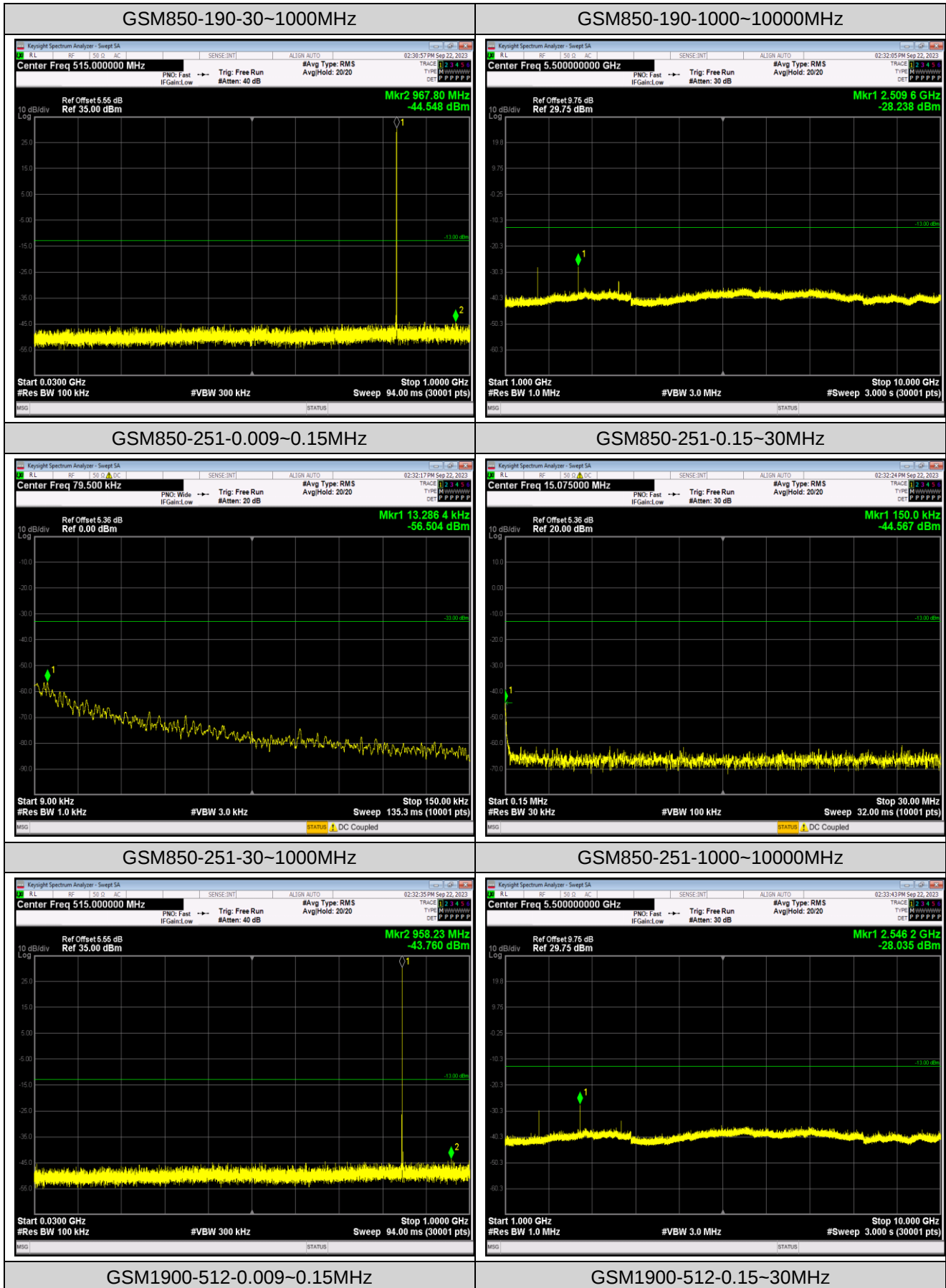
Test Result

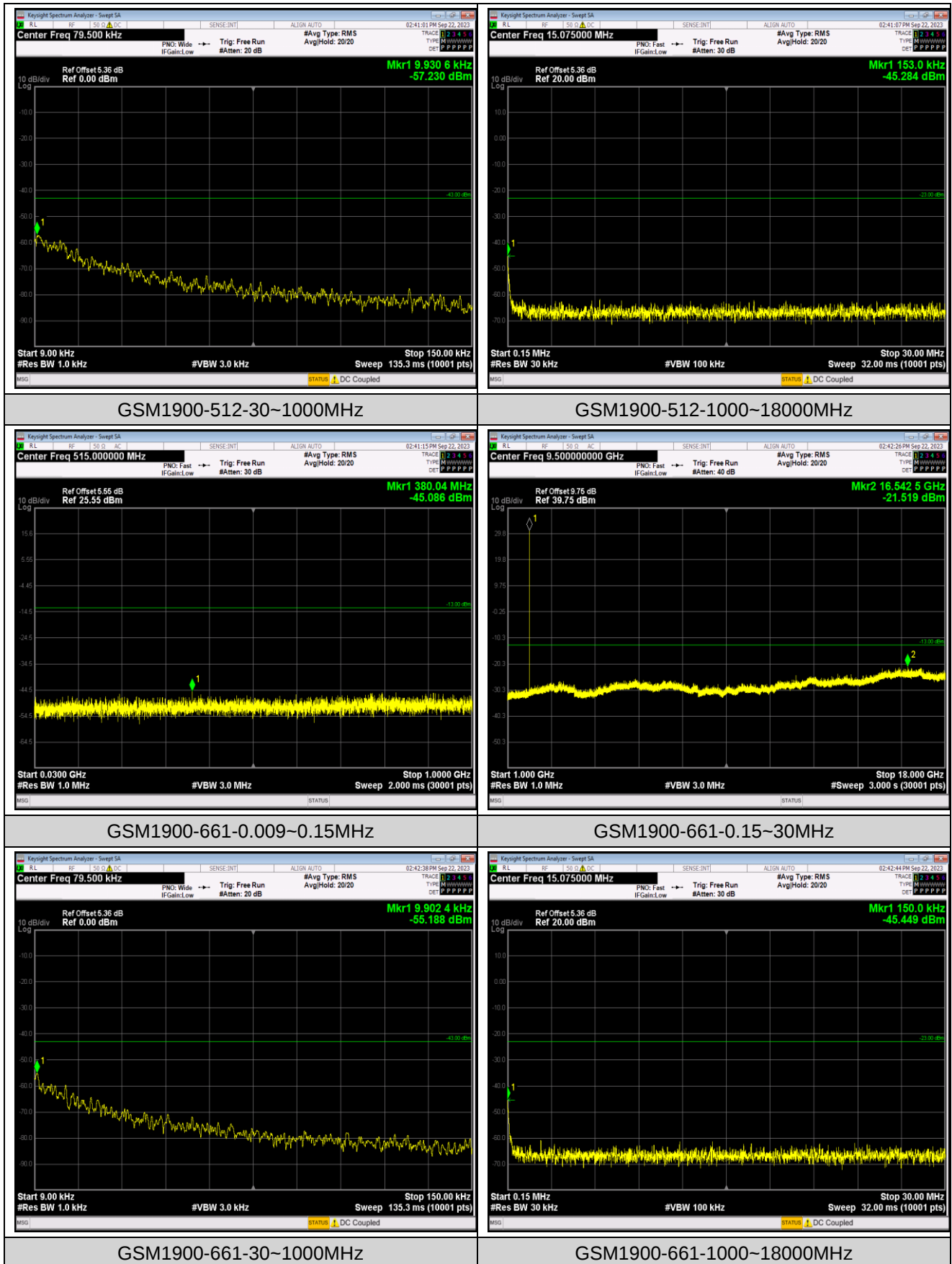
Band	Channel	PCL	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	5	0.009~0.15MHz	0.01	-55.26	-33	PASS
GSM850	128	5	0.15~30MHz	0.15	-42.72	-13	PASS
GSM850	128	5	30~1000MHz	399.76	-44.34	-13	PASS
GSM850	128	5	1000~10000MHz	1648.3	-26.66	-13	PASS
GSM850	190	5	0.009~0.15MHz	0.01	-56.62	-33	PASS
GSM850	190	5	0.15~30MHz	0.15	-44.97	-13	PASS
GSM850	190	5	30~1000MHz	967.8	-44.55	-13	PASS
GSM850	190	5	1000~10000MHz	2509.6	-28.24	-13	PASS
GSM850	251	5	0.009~0.15MHz	0.01	-56.5	-33	PASS
GSM850	251	5	0.15~30MHz	0.15	-44.57	-13	PASS
GSM850	251	5	30~1000MHz	958.23	-43.76	-13	PASS
GSM850	251	5	1000~10000MHz	2546.2	-28.04	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-57.23	-43	PASS
GSM1900	512	0	0.15~30MHz	0.15	-45.28	-23	PASS
GSM1900	512	0	30~1000MHz	380.04	-45.09	-13	PASS
GSM1900	512	0	1000~18000MHz	16542.53	-21.52	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-55.19	-43	PASS
GSM1900	661	0	0.15~30MHz	0.15	-45.45	-23	PASS
GSM1900	661	0	30~1000MHz	907.27	-44.42	-13	PASS
GSM1900	661	0	1000~18000MHz	17032.7	-21.09	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-55.79	-43	PASS
GSM1900	810	0	0.15~30MHz	0.16	-45.75	-23	PASS
GSM1900	810	0	30~1000MHz	830.9	-44.98	-13	PASS
GSM1900	810	0	1000~18000MHz	17078.6	-21.28	-13	PASS

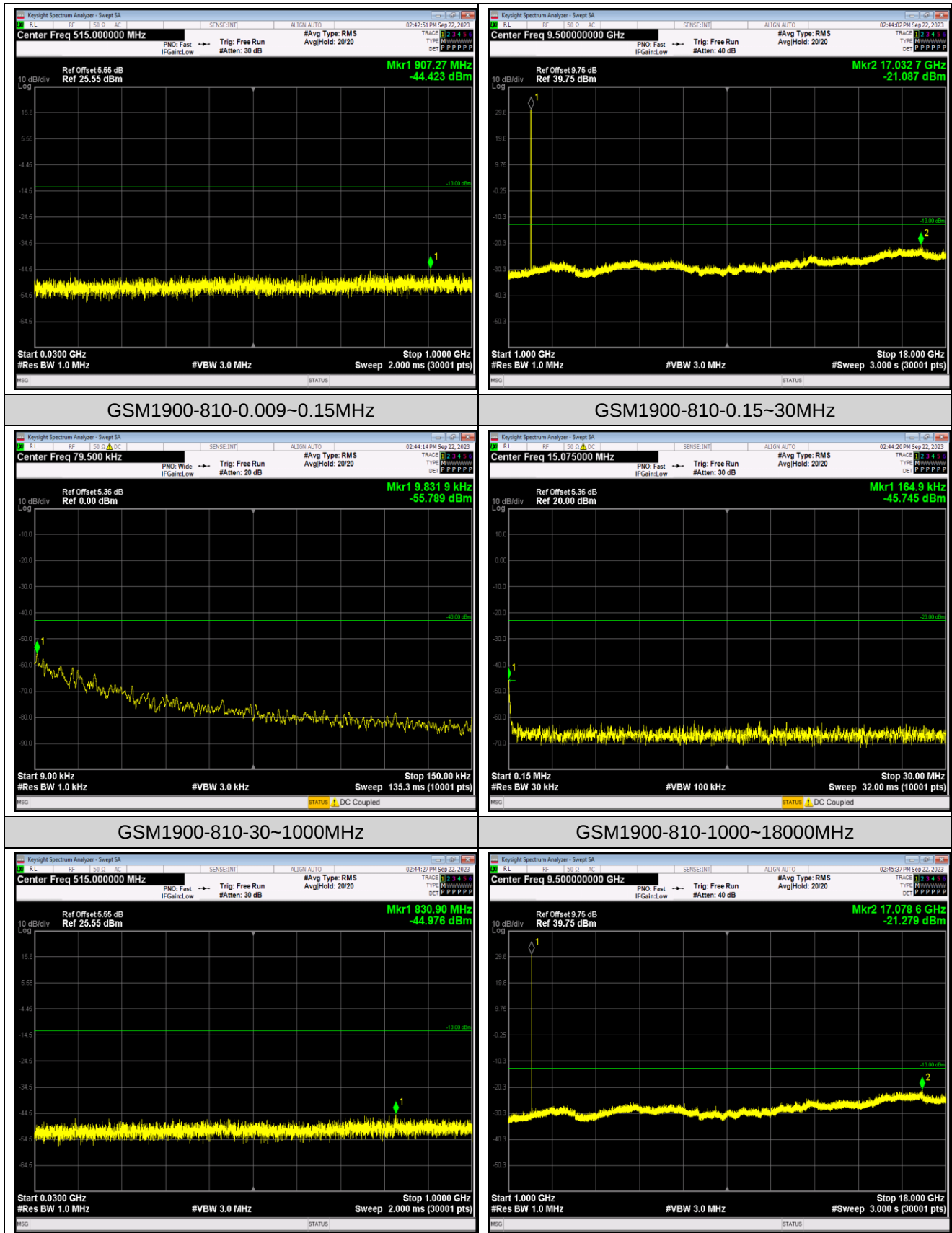
Remark: All channel and all modulation had been tested, but only the worst case data displayed in this report.

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		
3.7	-30	-8.88	-0.010614	±2.5	Pass
	-20	-4.75	-0.005678		
	-10	-6.20	-0.007411		
	0	-5.46	-0.006526		
	10	-5.00	-0.005977		
	20	-2.42	-0.002893		
	30	2.49	0.002976		
	40	8.85	0.010579		
	50	-2.32	-0.002773		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	2.75	-1.94	-0.002319	±2.5	Pass
	3.7	-6.01	-0.007184		
	4.2	-6.75	-0.008068		
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		
3.7	-30	-2.32	-0.002773	Within authorized band for PCS 1900	Pass
	-20	7.88	0.004191		
	-10	3.84	0.002043		
	0	3.10	0.001649		
	10	-1.03	-0.000548		
	20	-0.36	-0.000191		
	30	-4.78	-0.002543		
	40	-6.59	-0.003505		
	50	-8.78	-0.004670		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	2.75	0.90	0.000479	Within authorized band for PCS 1900	Pass
	3.7	-2.62	-0.001394		
	4.2	2.49	0.001324		
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
GSM1900	661	PASS	PASS

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

Test Graphs

