

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	32.50	27.27	38.45	PASS
GPRS850	128	5	2	32.11	26.88	38.45	PASS
GPRS850	128	5	3	31.04	25.81	38.45	PASS
GPRS850	128	5	4	30.13	24.9	38.45	PASS
GPRS850	190	5	1	32.64	27.41	38.45	PASS
GPRS850	190	5	2	32.26	27.03	38.45	PASS
GPRS850	190	5	3	31.12	25.89	38.45	PASS
GPRS850	190	5	4	30.19	24.96	38.45	PASS
GPRS850	251	5	1	32.39	27.16	38.45	PASS
GPRS850	251	5	2	32.04	26.81	38.45	PASS
GPRS850	251	5	3	31.03	25.8	38.45	PASS
GPRS850	251	5	4	30.20	24.97	38.45	PASS
GPRS1900	512	0	1	28.38	27.69	33.00	PASS
GPRS1900	512	0	2	27.89	27.2	33.00	PASS
GPRS1900	512	0	3	26.05	25.36	33.00	PASS
GPRS1900	512	0	4	24.83	24.14	33.00	PASS
GPRS1900	661	0	1	28.53	27.84	33.00	PASS
GPRS1900	661	0	2	28.03	27.34	33.00	PASS
GPRS1900	661	0	3	26.18	25.49	33.00	PASS
GPRS1900	661	0	4	24.90	24.21	33.00	PASS
GPRS1900	810	0	1	28.09	27.4	33.00	PASS
GPRS1900	810	0	2	27.62	26.93	33.00	PASS
GPRS1900	810	0	3	25.64	24.95	33.00	PASS
GPRS1900	810	0	4	24.35	23.66	33.00	PASS

Remark: $EIRP (dBm) = \text{Conducted power (dBm)} + \text{Antenna Gain (dBi)}$. (For GSM1900)

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

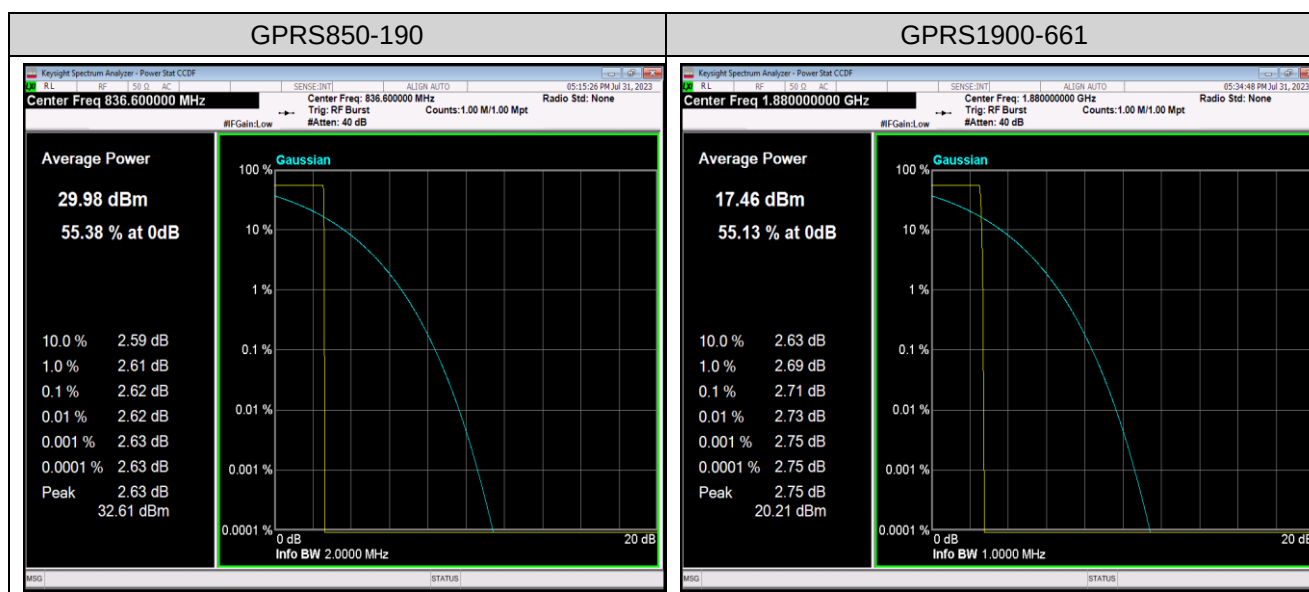
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	PCL	Result(dB)	Limit(dB)	Verdict
GPRS850	190	5	2.62	13	PASS
GPRS1900	661	0	2.71	13	PASS

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

Test Graphs

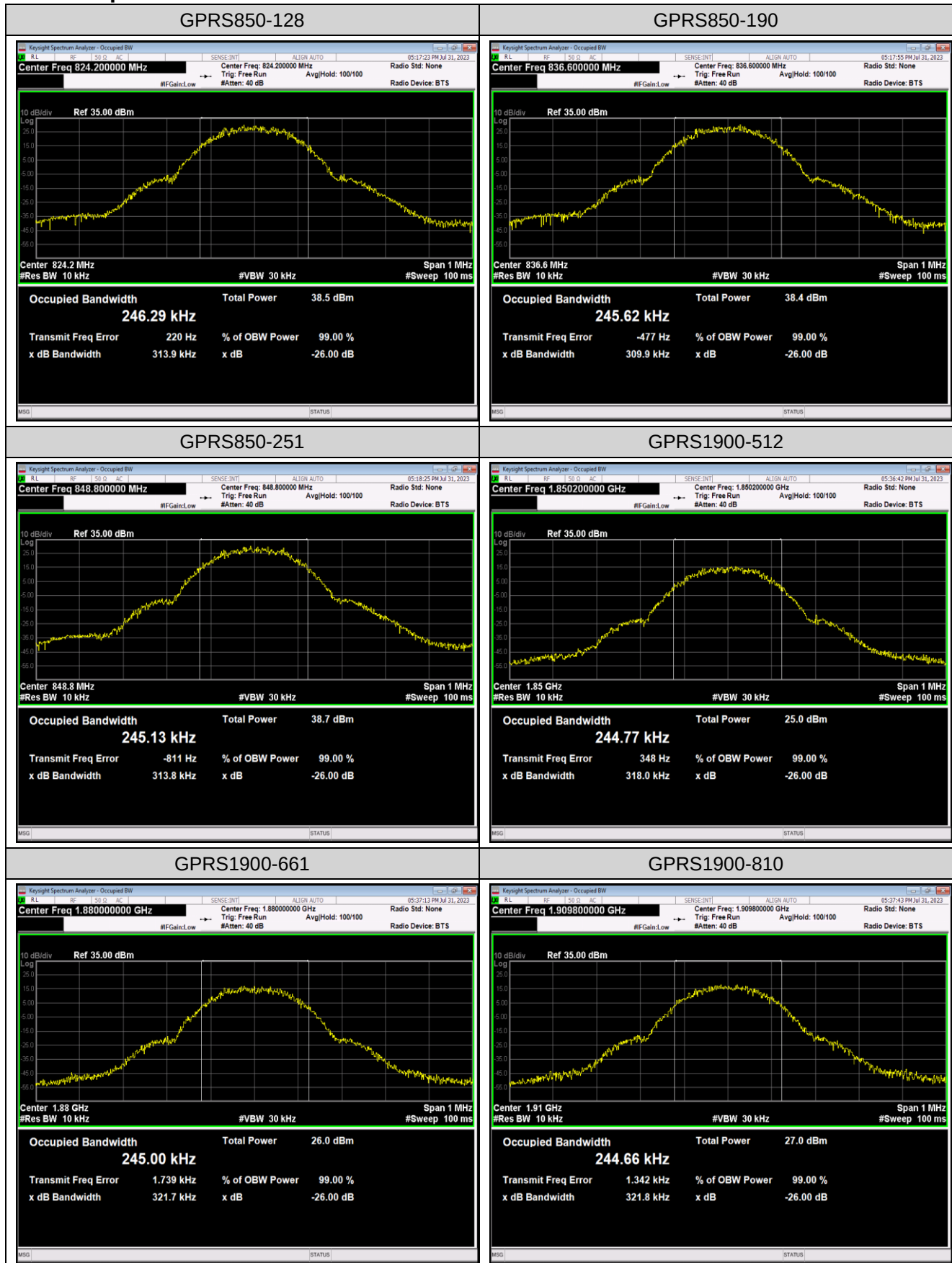


Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GPRS850	128	5	0.24629	0.3139	---	PASS
GPRS850	190	5	0.24562	0.3099	---	PASS
GPRS850	251	5	0.24513	0.3138	---	PASS
GPRS1900	512	0	0.24477	0.3180	---	PASS
GPRS1900	661	0	0.24500	0.3217	---	PASS
GPRS1900	810	0	0.24466	0.3218	---	PASS

Test Graphs

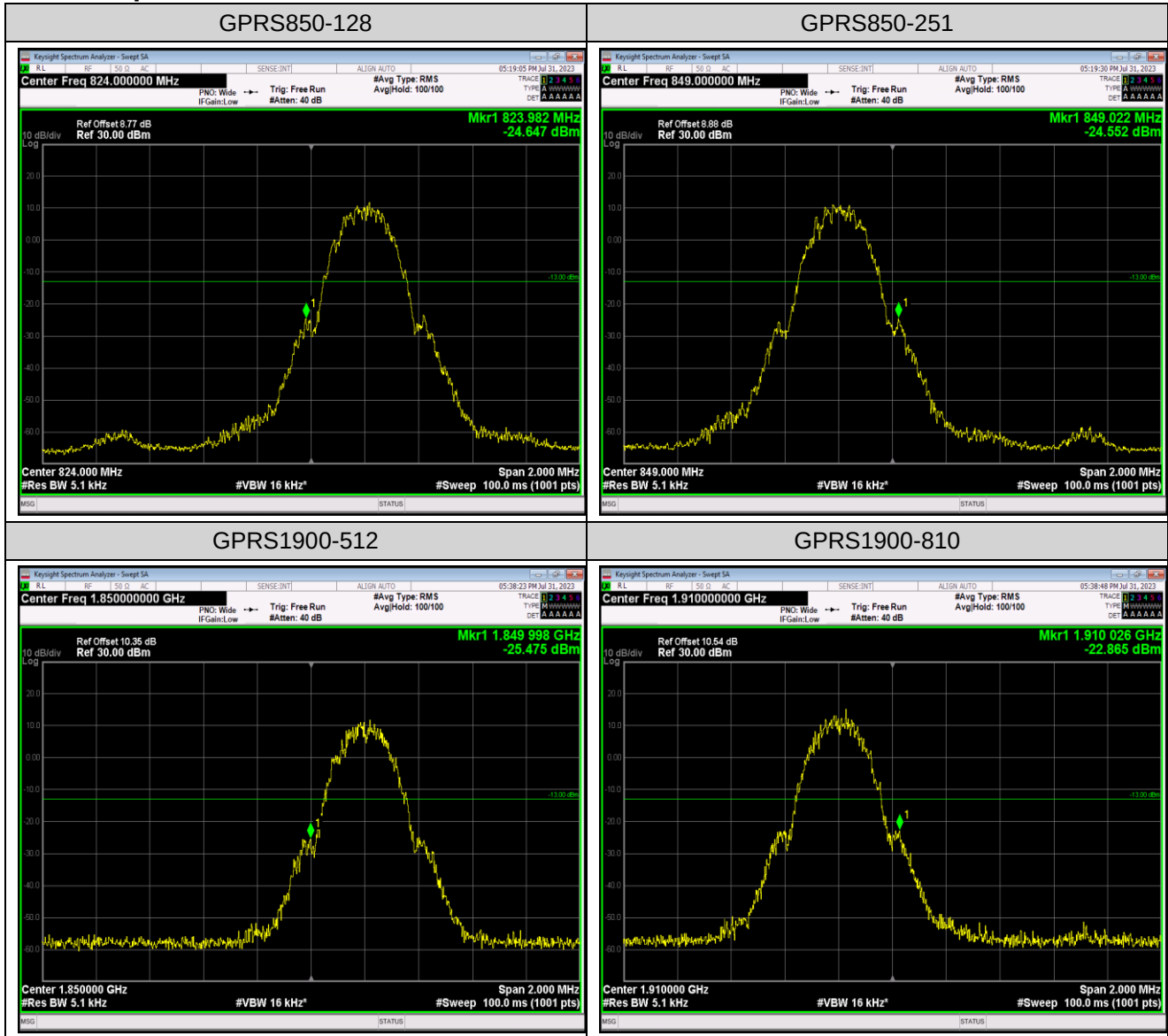


Appendix D: Band Edge

Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GPRS850	128	5	823.98	-24.65	-13	PASS
GPRS850	251	5	849.02	-24.55	-13	PASS
GPRS1900	512	0	1850.00	-25.47	-13	PASS
GPRS1900	810	0	1910.03	-22.86	-13	PASS

Test Graphs



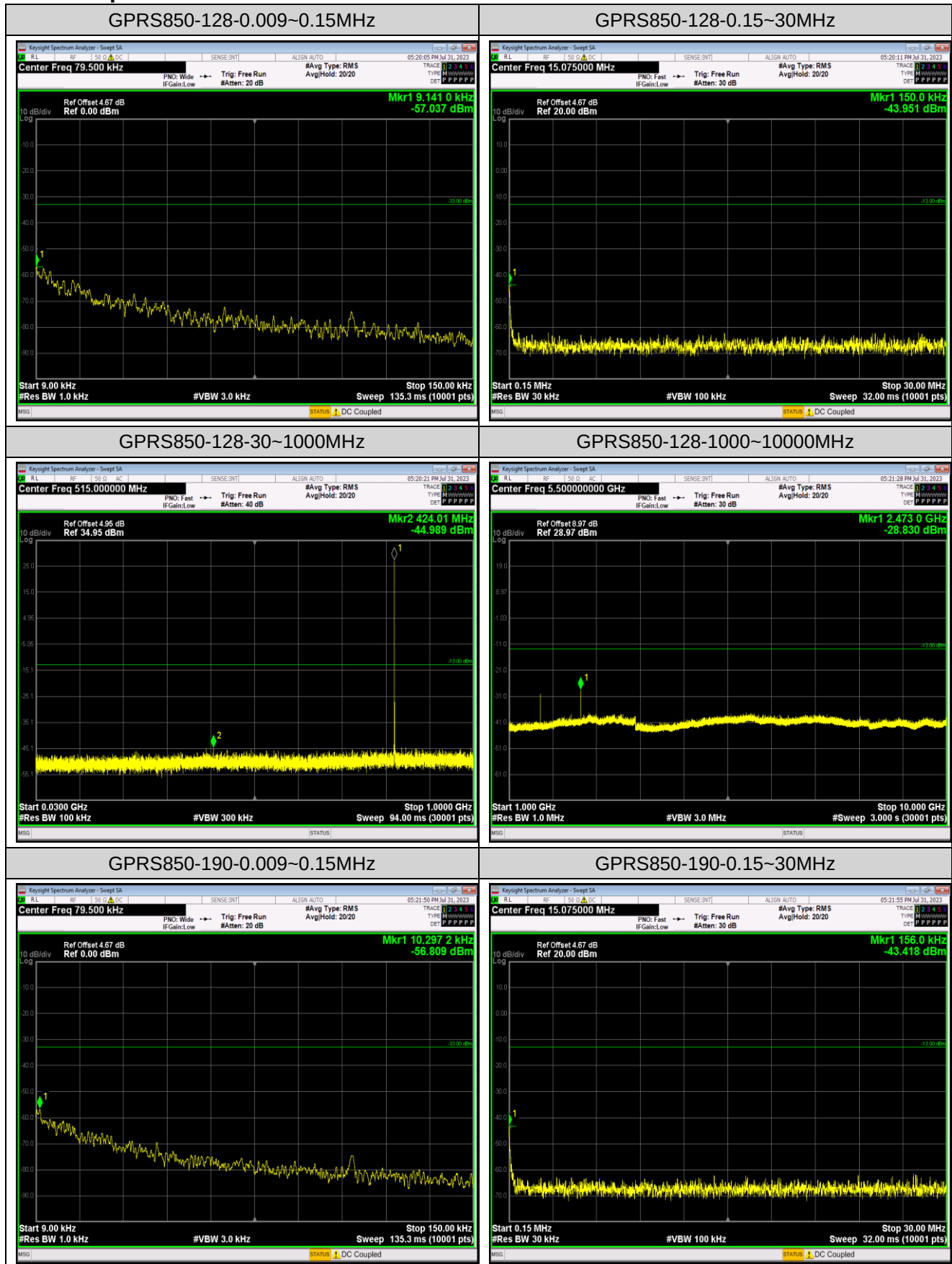
Appendix E: Conducted Spurious Emission

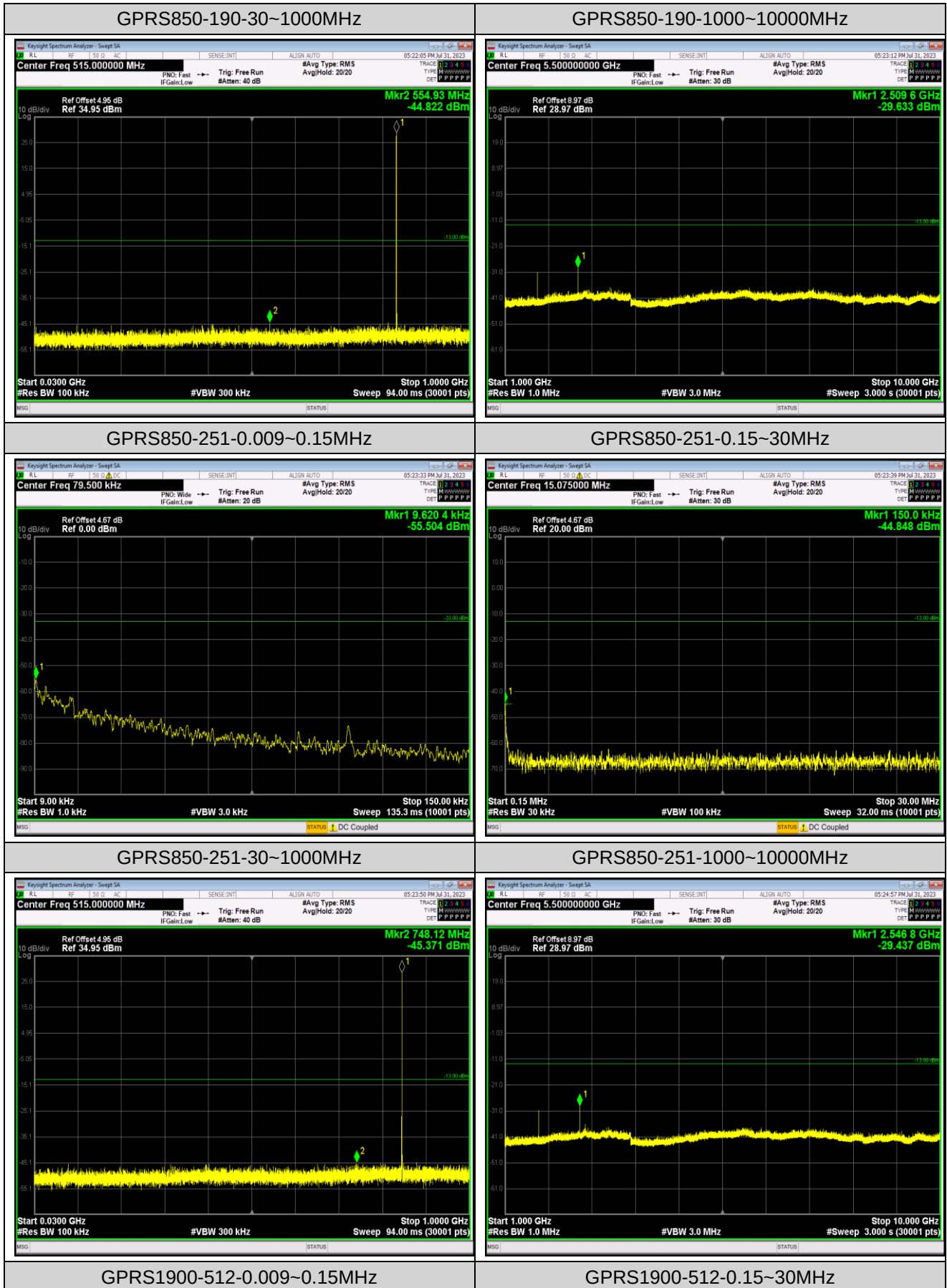
Test Result

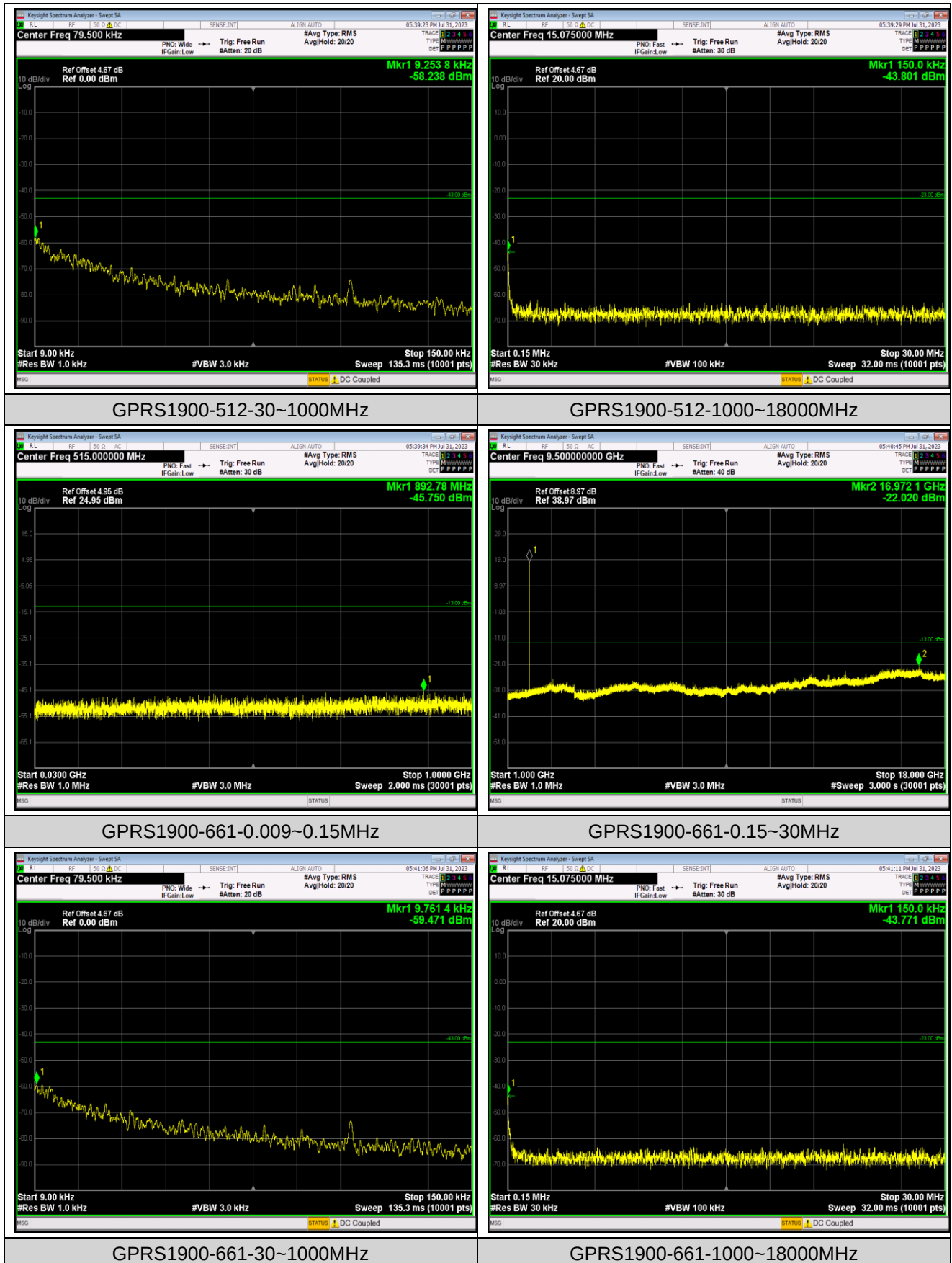
Band	Channel	PCL	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GPRS850	128	5	0.009~0.15MHz	0.01	-57.04	-33	PASS
GPRS850	128	5	0.15~30MHz	0.15	-43.95	-13	PASS
GPRS850	128	5	30~1000MHz	424.01	-44.99	-13	PASS
GPRS850	128	5	1000~10000MHz	2473	-28.83	-13	PASS
GPRS850	190	5	0.009~0.15MHz	0.01	-56.81	-33	PASS
GPRS850	190	5	0.15~30MHz	0.16	-43.42	-13	PASS
GPRS850	190	5	30~1000MHz	554.93	-44.82	-13	PASS
GPRS850	190	5	1000~10000MHz	2509.6	-29.63	-13	PASS
GPRS850	251	5	0.009~0.15MHz	0.01	-55.5	-33	PASS
GPRS850	251	5	0.15~30MHz	0.15	-44.85	-13	PASS
GPRS850	251	5	30~1000MHz	748.12	-45.37	-13	PASS
GPRS850	251	5	1000~10000MHz	2546.8	-29.44	-13	PASS
GPRS1900	512	0	0.009~0.15MHz	0.01	-58.24	-43	PASS
GPRS1900	512	0	0.15~30MHz	0.15	-43.8	-23	PASS
GPRS1900	512	0	30~1000MHz	892.78	-45.75	-13	PASS
GPRS1900	512	0	1000~18000MHz	16972.07	-22.02	-13	PASS
GPRS1900	661	0	0.009~0.15MHz	0.01	-59.47	-43	PASS
GPRS1900	661	0	0.15~30MHz	0.15	-43.77	-23	PASS
GPRS1900	661	0	30~1000MHz	971.19	-45.61	-13	PASS
GPRS1900	661	0	1000~18000MHz	16391.8	-22.22	-13	PASS
GPRS1900	810	0	0.009~0.15MHz	0.01	-58.29	-43	PASS
GPRS1900	810	0	0.15~30MHz	0.15	-44.4	-23	PASS
GPRS1900	810	0	30~1000MHz	408.17	-45.57	-13	PASS
GPRS1900	810	0	1000~18000MHz	16209.9	-22.03	-13	PASS

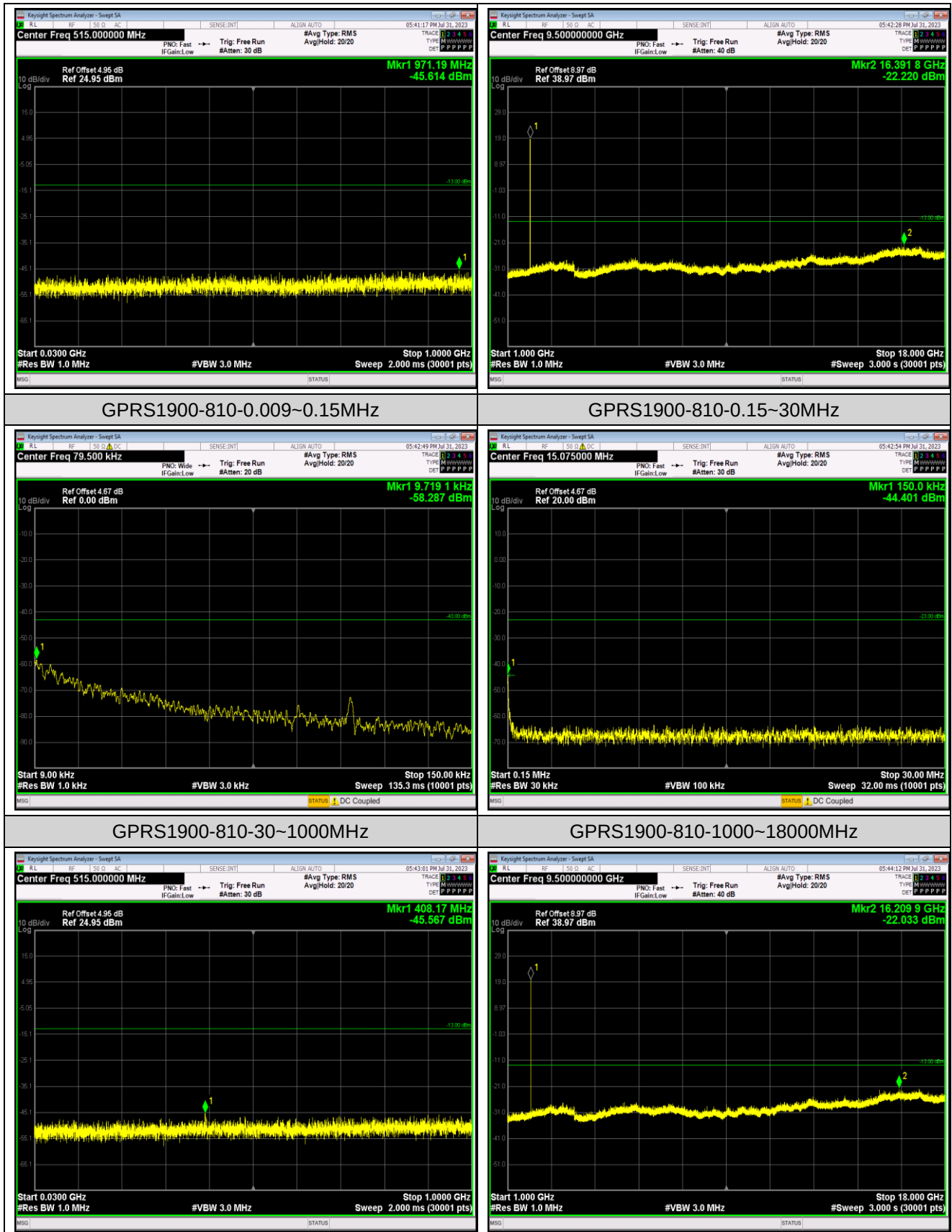
Remark: All channel and all modulation had been tested, but only the worst case data displayed in this report.

Test Graphs









Appendix F: Frequency Stability

Test Result

Reference Frequency: GPRS850 Middle channel=190 Frequency=836.6MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	15.05	0.017989	±2.5	Pass
	-20	15.85	0.018946		
	-10	11.72	0.014009		
	0	13.14	0.015706		
	10	14.04	0.016782		
	20	17.21	0.020571		
	30	19.50	0.023309		
	40	19.66	0.023500		
	50	18.56	0.022185		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	12.91	0.015432	±2.5	Pass
	3.80	13.62	0.016280		
	4.35	12.85	0.015360		
Remark: All channel had been tested, but only the worst case data displayed in this report.					

Reference Frequency: GPRS1900 Middle channel=661 Frequency=1880MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	22.21	0.011814	Within authorized band for PCS 1900	Pass
	-20	27.15	0.014441		
	-10	22.37	0.011899		
	0	17.24	0.009170		
	10	31.09	0.016537		
	20	33.90	0.018032		
	30	27.38	0.014564		
	40	28.93	0.015388		
	50	31.19	0.016590		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.50	27.89	0.014835	Within authorized band for PCS 1900	Pass
	3.80	26.15	0.013910		
	4.35	24.50	0.013032		
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
GPRS1900	661	PASS	PASS

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

Test Graphs

