

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	28.18	38.45	PASS
GPRS850	128	5	2	31.71	27.39	38.45	PASS
GPRS850	128	5	3	29.75	25.43	38.45	PASS
GPRS850	128	5	4	28.45	24.13	38.45	PASS
GPRS850	190	5	1	32.78	28.46	38.45	PASS
GPRS850	190	5	2	31.99	27.67	38.45	PASS
GPRS850	190	5	3	30.06	25.74	38.45	PASS
GPRS850	190	5	4	28.81	24.49	38.45	PASS
GPRS850	251	5	1	32.77	28.45	38.45	PASS
GPRS850	251	5	2	31.97	27.65	38.45	PASS
GPRS850	251	5	3	30.00	25.68	38.45	PASS
GPRS850	251	5	4	28.72	24.4	38.45	PASS
GPRS1900	512	0	1	30.62	29.52	33.00	PASS
GPRS1900	512	0	2	29.41	28.31	33.00	PASS
GPRS1900	512	0	3	27.26	26.16	33.00	PASS
GPRS1900	512	0	4	26.45	25.35	33.00	PASS
GPRS1900	661	0	1	30.86	29.76	33.00	PASS
GPRS1900	661	0	2	29.69	28.59	33.00	PASS
GPRS1900	661	0	3	27.57	26.47	33.00	PASS
GPRS1900	661	0	4	26.77	25.67	33.00	PASS
GPRS1900	810	0	1	30.69	29.59	33.00	PASS
GPRS1900	810	0	2	29.51	28.41	33.00	PASS
GPRS1900	810	0	3	27.42	26.32	33.00	PASS
GPRS1900	810	0	4	26.63	25.53	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)

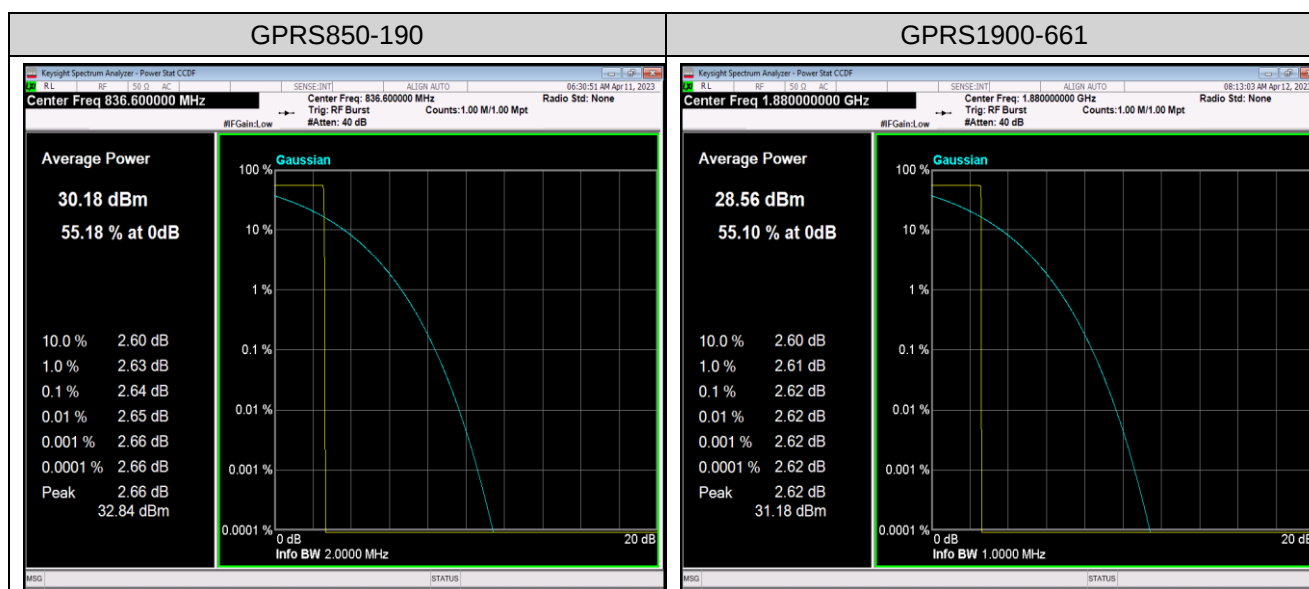
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	PCL	Result(dB)	Limit(dB)	Verdict
GPRS850	190	5	2.64	13	PASS
GPRS1900	661	0	2.62	13	PASS

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

Test Graphs

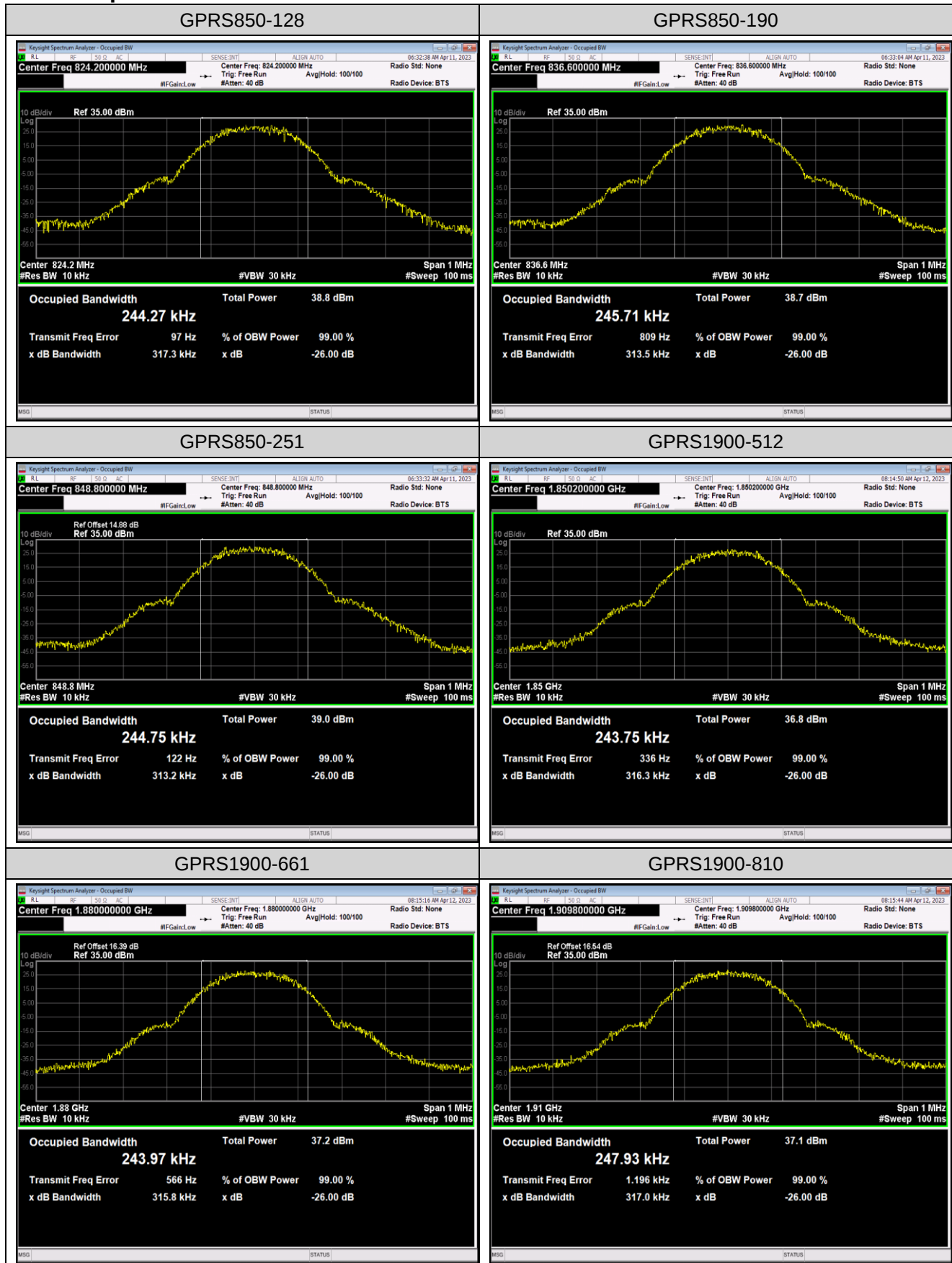


Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GPRS850	128	5	0.24427	0.3173	---	PASS
GPRS850	190	5	0.24571	0.3135	---	PASS
GPRS850	251	5	0.24475	0.3132	---	PASS
GPRS1900	512	0	0.24375	0.3163	---	PASS
GPRS1900	661	0	0.24397	0.3158	---	PASS
GPRS1900	810	0	0.24793	0.3170	---	PASS

Test Graphs

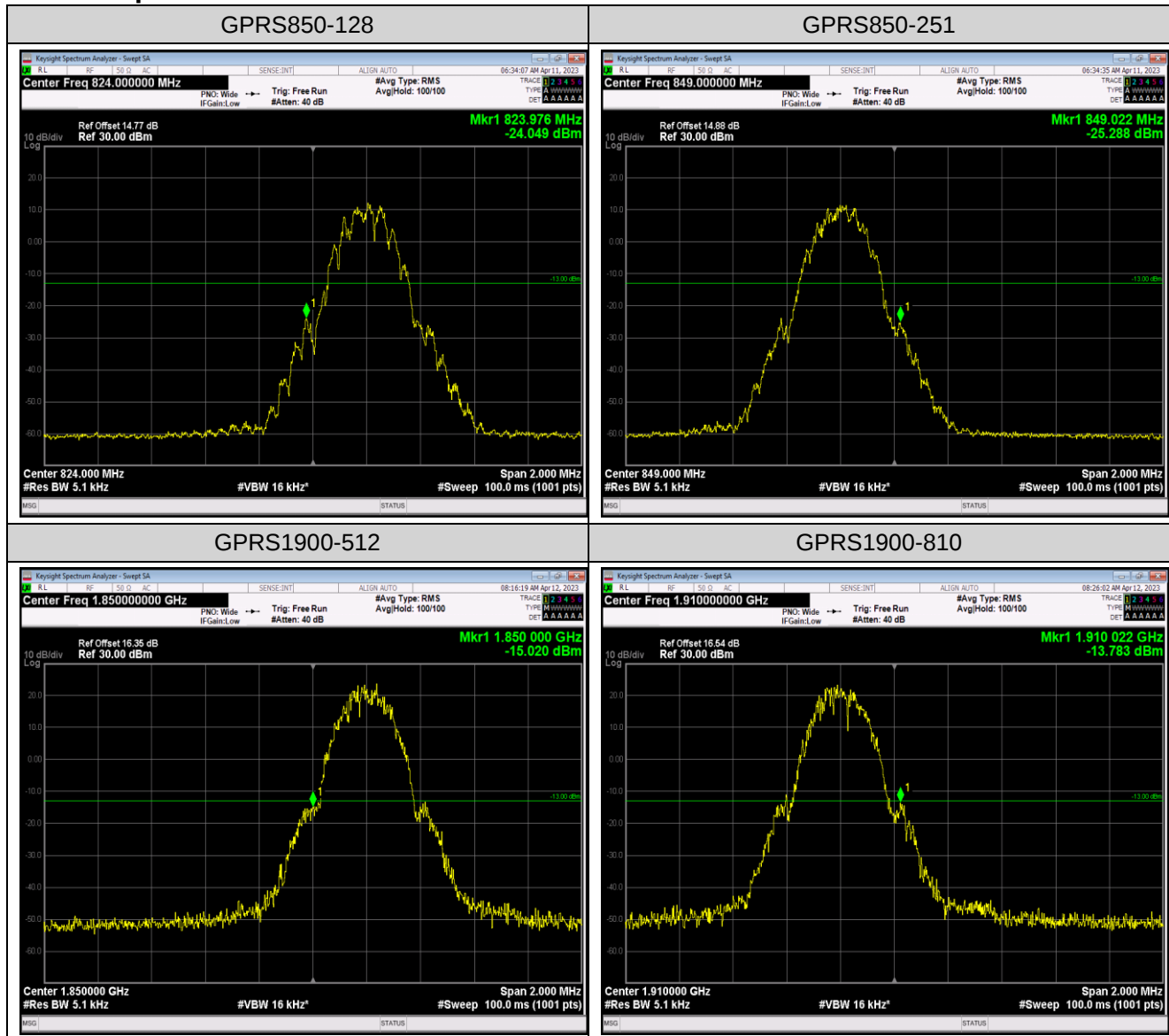


Appendix D: Band Edge

Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GPRS850	128	5	823.98	-24.05	-13	PASS
GPRS850	251	5	849.02	-25.29	-13	PASS
GPRS1900	512	0	1850.00	-15.02	-13	PASS
GPRS1900	810	0	1910.02	-13.78	-13	PASS

Test Graphs



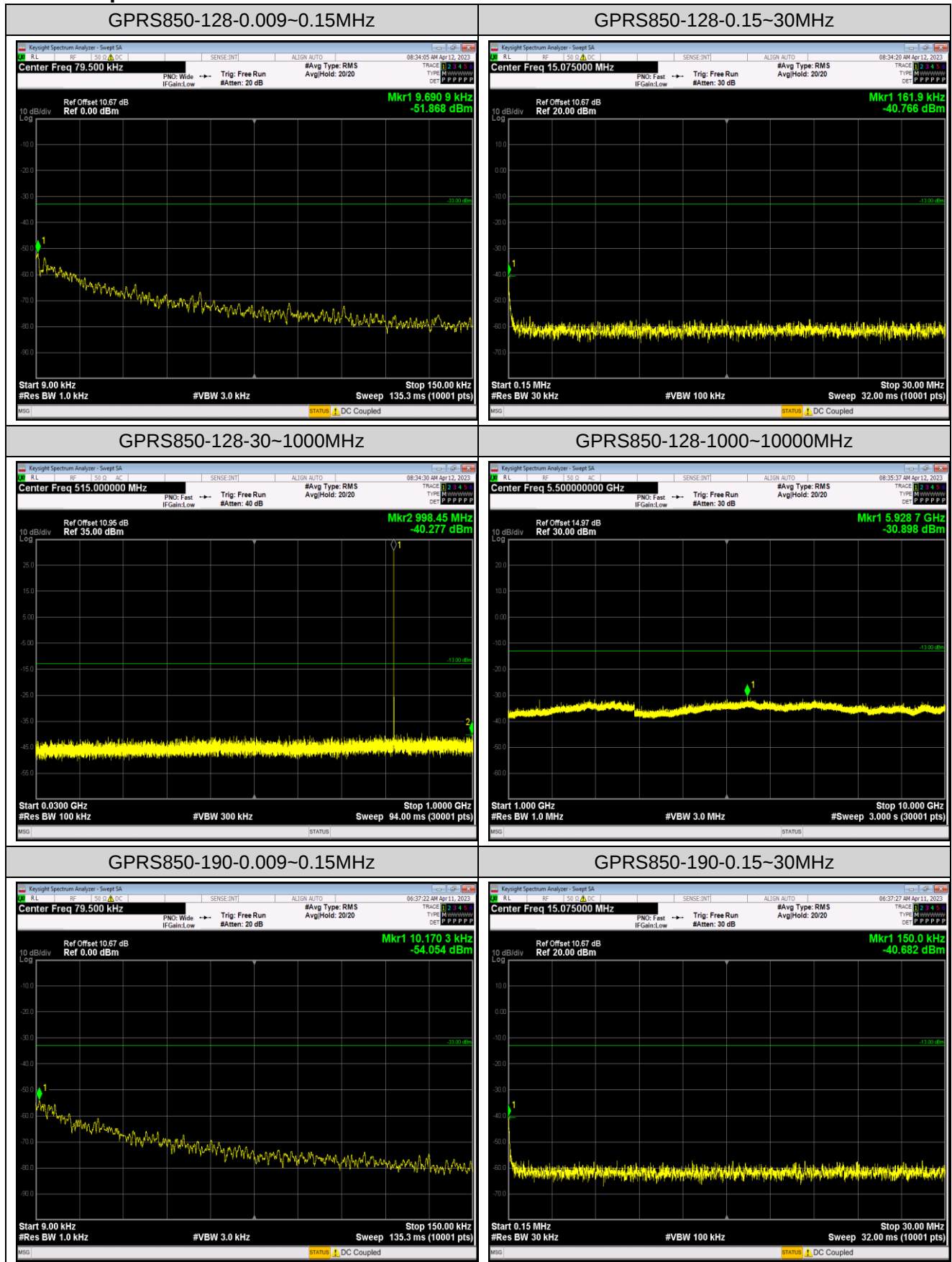
Appendix E: Conducted Spurious Emission

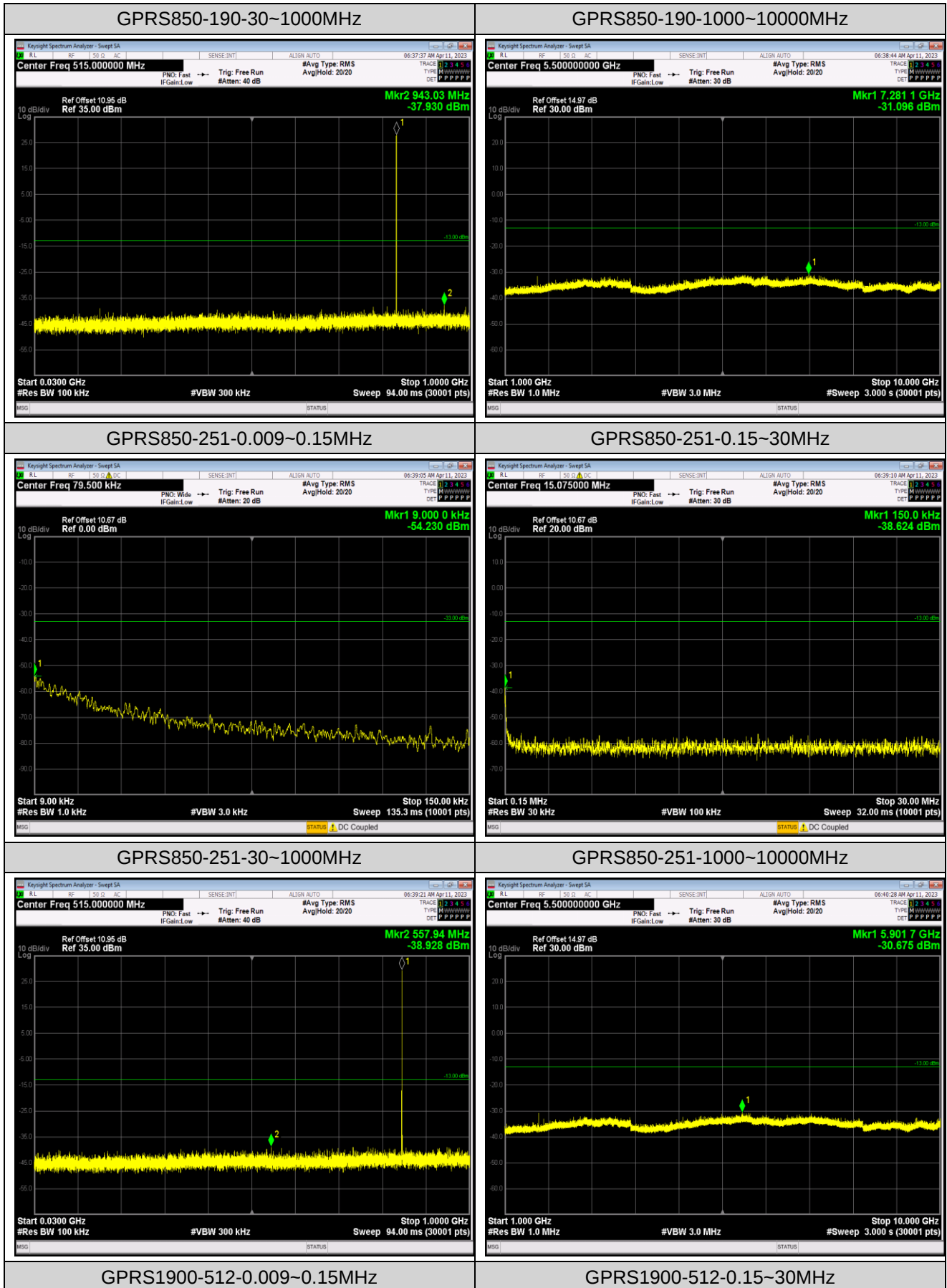
Test Result

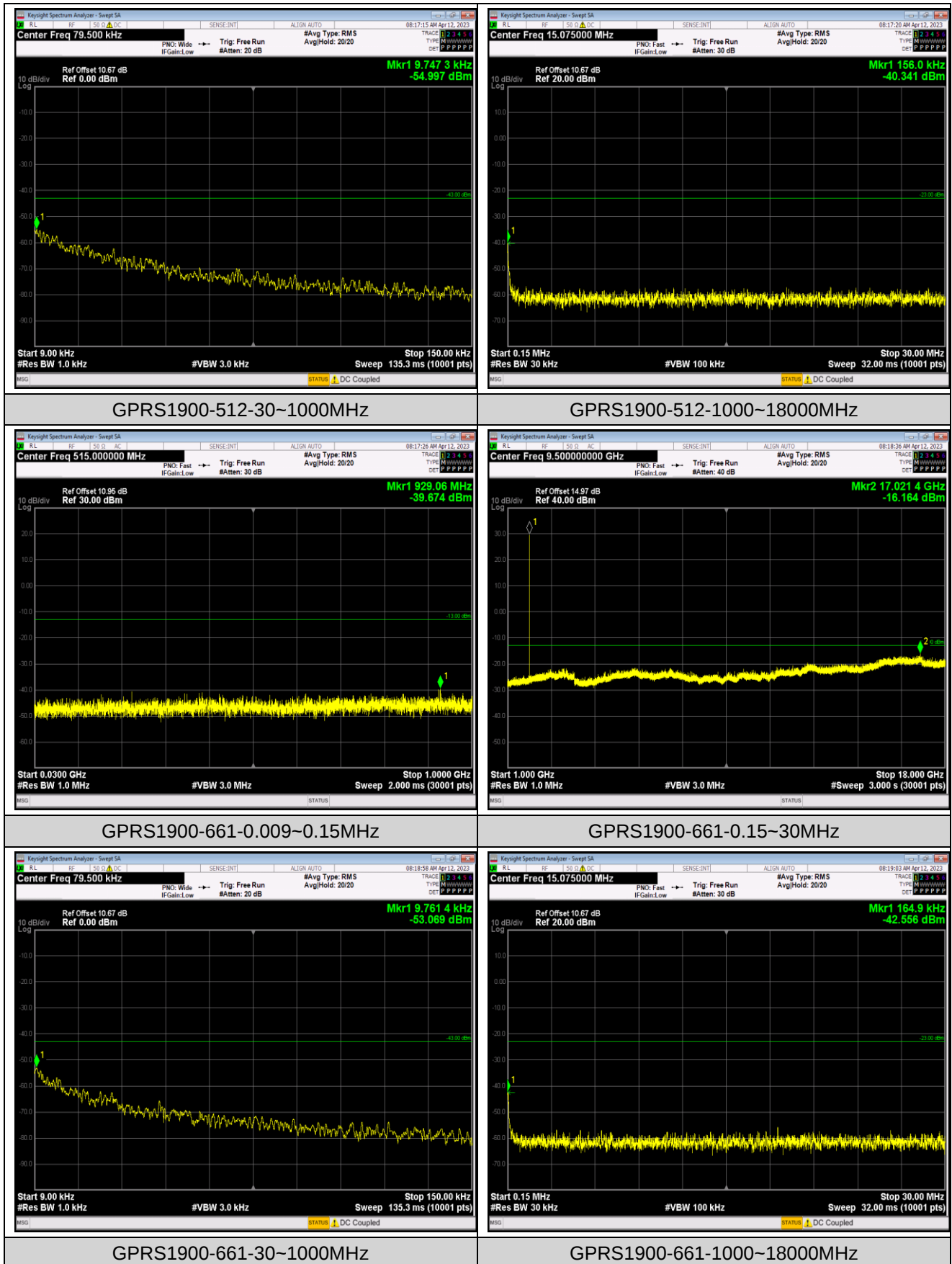
Band	Channel	PCL	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GPRS850	128	5	0.009~0.15MHz	0.01	-51.87	-33	PASS
GPRS850	128	5	0.15~30MHz	0.16	-40.77	-13	PASS
GPRS850	128	5	30~1000MHz	998.45	-40.28	-13	PASS
GPRS850	128	5	1000~10000MHz	5928.7	-30.9	-13	PASS
GPRS850	190	5	0.009~0.15MHz	0.01	-54.05	-33	PASS
GPRS850	190	5	0.15~30MHz	0.15	-40.68	-13	PASS
GPRS850	190	5	30~1000MHz	943.03	-37.93	-13	PASS
GPRS850	190	5	1000~10000MHz	7281.1	-31.1	-13	PASS
GPRS850	251	5	0.009~0.15MHz	0.01	-54.23	-33	PASS
GPRS850	251	5	0.15~30MHz	0.15	-38.62	-13	PASS
GPRS850	251	5	30~1000MHz	557.94	-38.93	-13	PASS
GPRS850	251	5	1000~10000MHz	5901.7	-30.68	-13	PASS
GPRS1900	512	0	0.009~0.15MHz	0.01	-55	-43	PASS
GPRS1900	512	0	0.15~30MHz	0.16	-40.34	-23	PASS
GPRS1900	512	0	30~1000MHz	929.06	-39.67	-13	PASS
GPRS1900	512	0	1000~18000MHz	17021.37	-16.16	-13	PASS
GPRS1900	661	0	0.009~0.15MHz	0.01	-53.07	-43	PASS
GPRS1900	661	0	0.15~30MHz	0.16	-42.56	-23	PASS
GPRS1900	661	0	30~1000MHz	896.76	-40.7	-13	PASS
GPRS1900	661	0	1000~18000MHz	16778.83	-15.15	-13	PASS
GPRS1900	810	0	0.009~0.15MHz	0.01	-52.85	-43	PASS
GPRS1900	810	0	0.15~30MHz	0.15	-40.32	-23	PASS
GPRS1900	810	0	30~1000MHz	823.78	-40.63	-13	PASS
GPRS1900	810	0	1000~18000MHz	16203.1	-16.13	-13	PASS

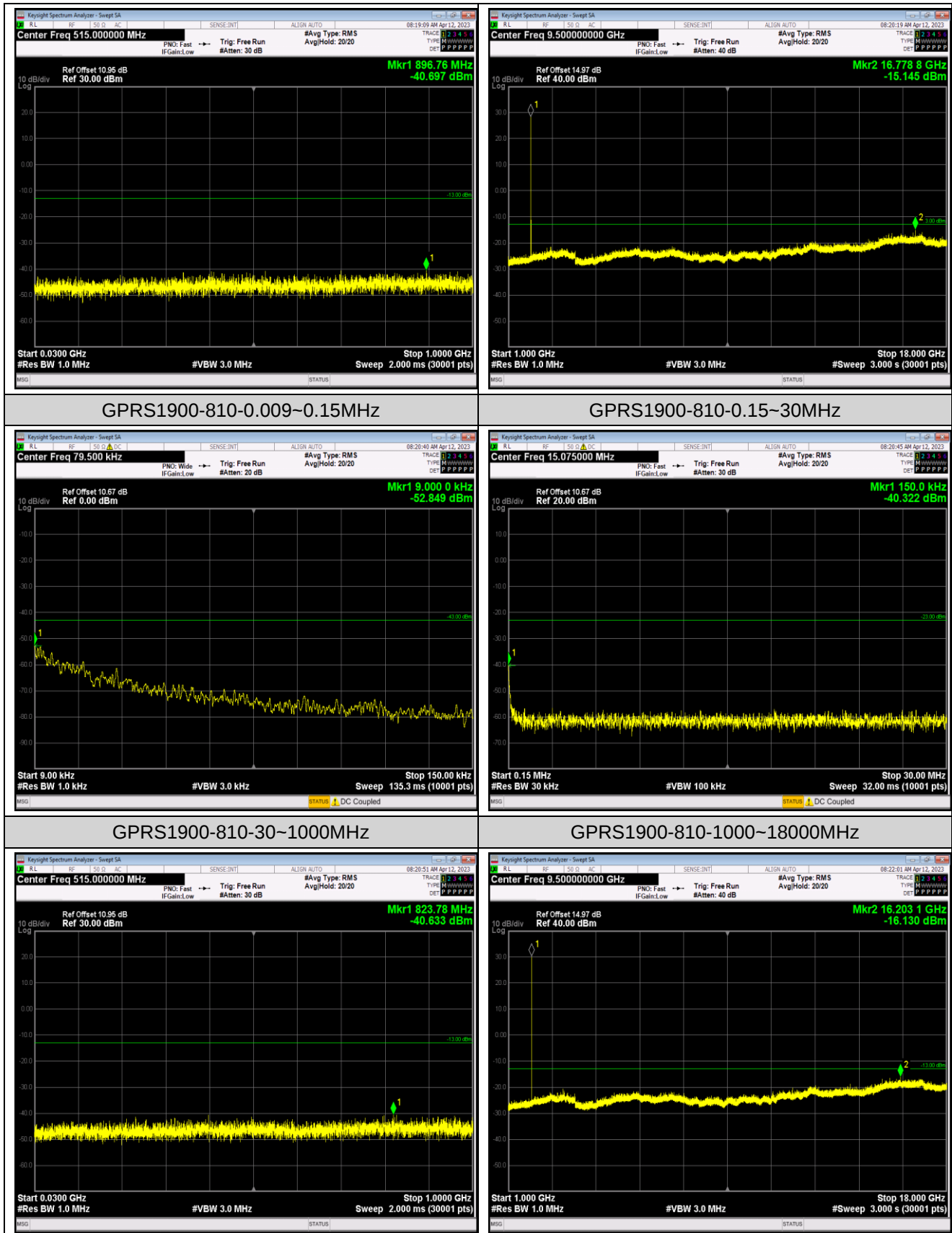
Remark: All channel and all modulation had been tested, but only the worst case data displayed in this report.

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		
3.7	-30	12.14	0.014511	±2.5	Pass
	-20	15.88	0.018982		
	-10	14.46	0.017284		
	0	10.62	0.012694		
	10	12.20	0.014583		
	20	13.27	0.015862		
	30	13.08	0.015635		
	40	12.30	0.014702		
	50	12.62	0.015085		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.145	14.11	0.016866	±2.5	Pass
	3.7	14.46	0.017284		
	4.255	13.11	0.015671		
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		
3.7	-30	-5.68	-0.003021	Within authorized band for PCS 1900	Pass
	-20	-6.39	-0.003399		
	-10	-5.10	-0.002713		
	0	-6.78	-0.003606		
	10	-3.10	-0.001649		
	20	-2.78	-0.001479		
	30	-1.19	-0.000633		
	40	-1.81	-0.000963		
	50	-3.58	-0.001904		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.145	-3.26	-0.001734	Within authorized band for PCS 1900	Pass
	3.7	-3.03	-0.001612		
	4.255	-6.07	-0.003229		
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

