



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	33.25	24.98	38.45	PASS
GSM850	190	5	33.31	25.04	38.45	PASS
GSM850	251	5	33.21	24.94	38.45	PASS
GSM1900	512	0	28.94	26.65	33.00	PASS
GSM1900	661	0	29.42	27.13	33.00	PASS
GSM1900	810	0	29.49	27.20	33.00	PASS

Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS850	128	5	1	33.55	25.28	38.45	PASS
GPRS850	128	5	2	30.48	22.21	38.45	PASS
GPRS850	128	5	3	28.65	20.38	38.45	PASS
GPRS850	128	5	4	26.63	18.36	38.45	PASS
GPRS850	190	5	1	33.52	25.25	38.45	PASS
GPRS850	190	5	2	30.47	22.2	38.45	PASS
GPRS850	190	5	3	28.78	20.51	38.45	PASS
GPRS850	190	5	4	26.64	18.37	38.45	PASS
GPRS850	251	5	1	33.39	25.12	38.45	PASS
GPRS850	251	5	2	30.36	22.09	38.45	PASS
GPRS850	251	5	3	28.68	20.41	38.45	PASS
GPRS850	251	5	4	26.58	18.31	38.45	PASS
GPRS1900	512	0	1	28.93	26.64	33.00	PASS
GPRS1900	512	0	2	26.05	23.76	33.00	PASS
GPRS1900	512	0	3	24.11	21.82	33.00	PASS
GPRS1900	512	0	4	21.75	19.46	33.00	PASS
GPRS1900	661	0	1	29.4	27.11	33.00	PASS
GPRS1900	661	0	2	26.57	24.28	33.00	PASS
GPRS1900	661	0	3	24.69	22.40	33.00	PASS
GPRS1900	661	0	4	22.36	20.07	33.00	PASS
GPRS1900	810	0	1	29.47	27.18	33.00	PASS
GPRS1900	810	0	2	26.86	24.57	33.00	PASS
GPRS1900	810	0	3	24.99	22.70	33.00	PASS
GPRS1900	810	0	4	22.75	20.46	33.00	PASS

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

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



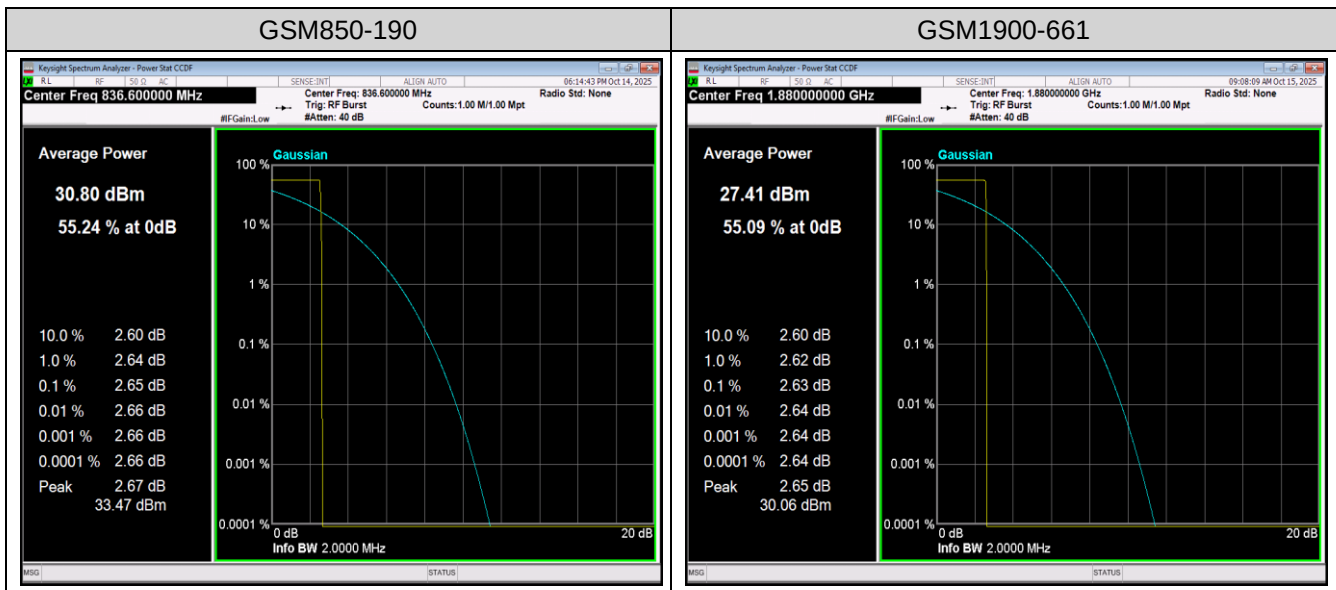
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	PCL	Result(dB)	Limit(dB)	Verdict
GSM850	190	5	2.65	13	PASS
GSM1900	661	0	2.63	13	PASS

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

Test Graphs





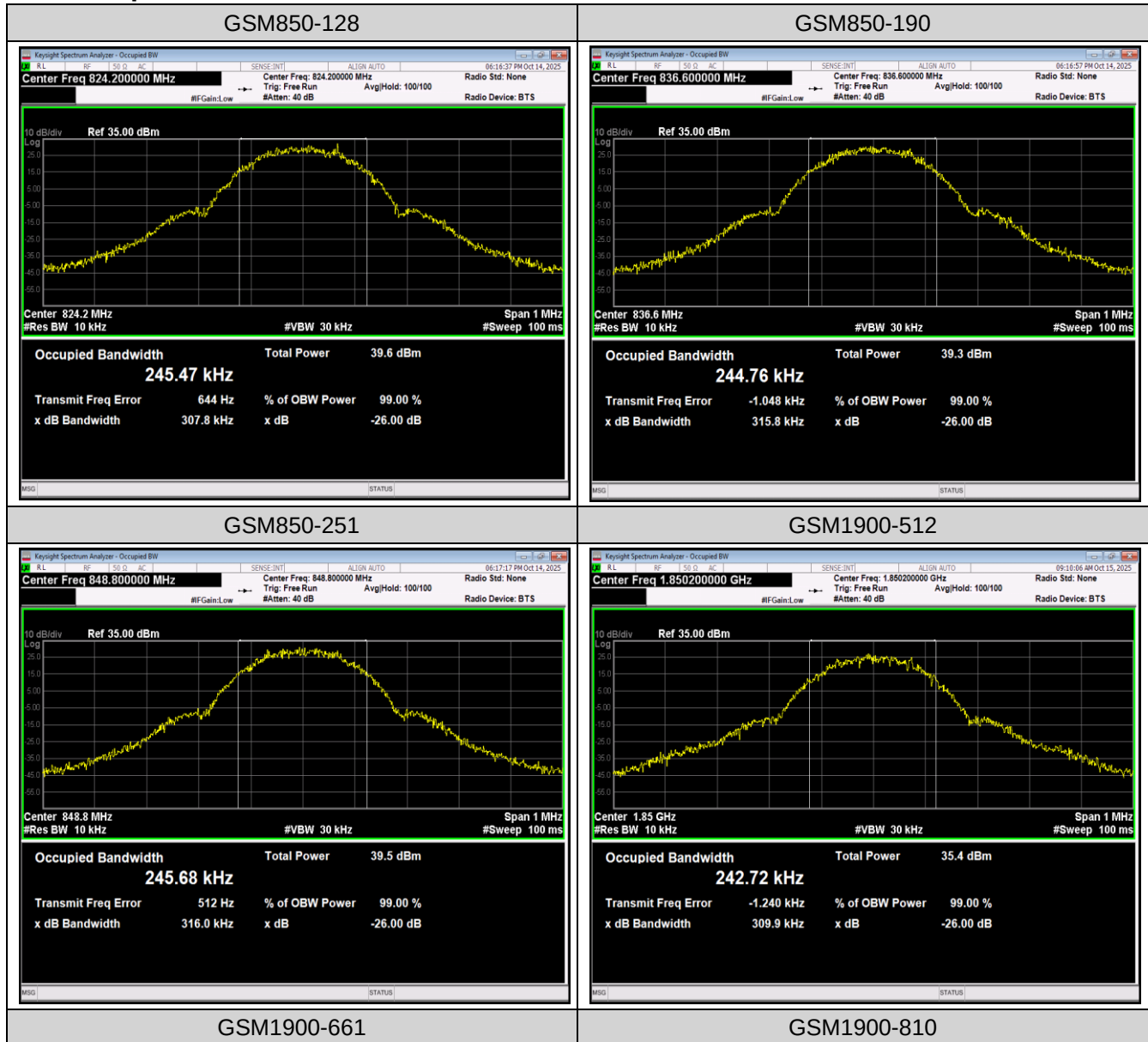
Appendix C: 26dB Bandwidth and Occupied Bandwidth

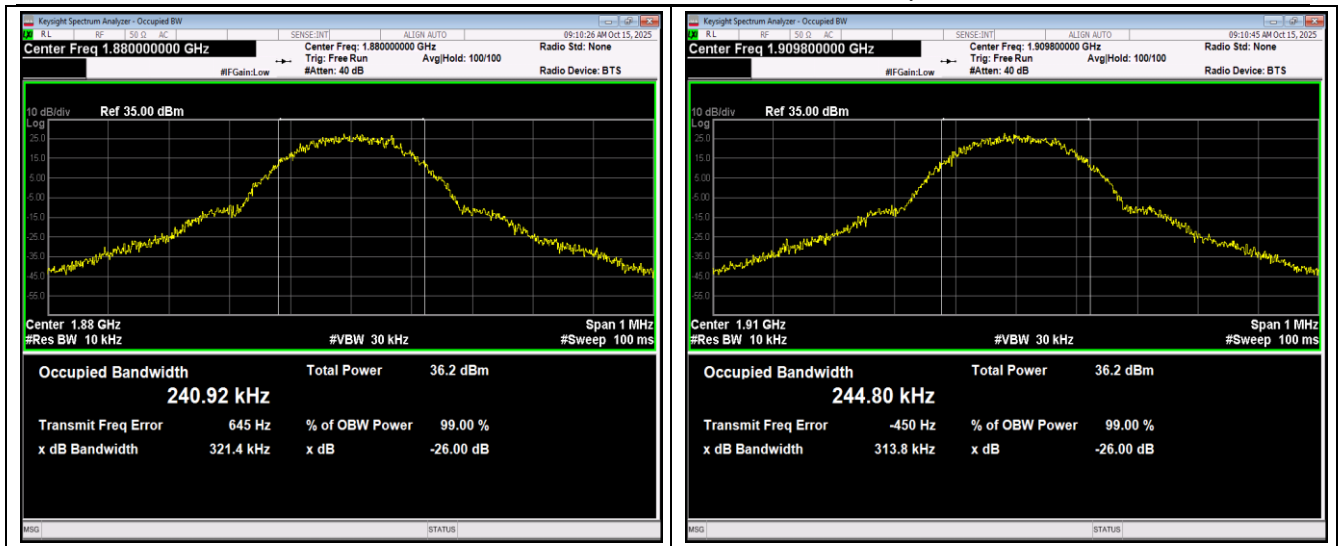
Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	5	0.24547	0.3078	---	PASS
GSM850	190	5	0.24476	0.3158	---	PASS
GSM850	251	5	0.24568	0.3160	---	PASS
GSM1900	512	0	0.24272	0.3099	---	PASS
GSM1900	661	0	0.24092	0.3214	---	PASS
GSM1900	810	0	0.24480	0.3138	---	PASS



Test Graphs



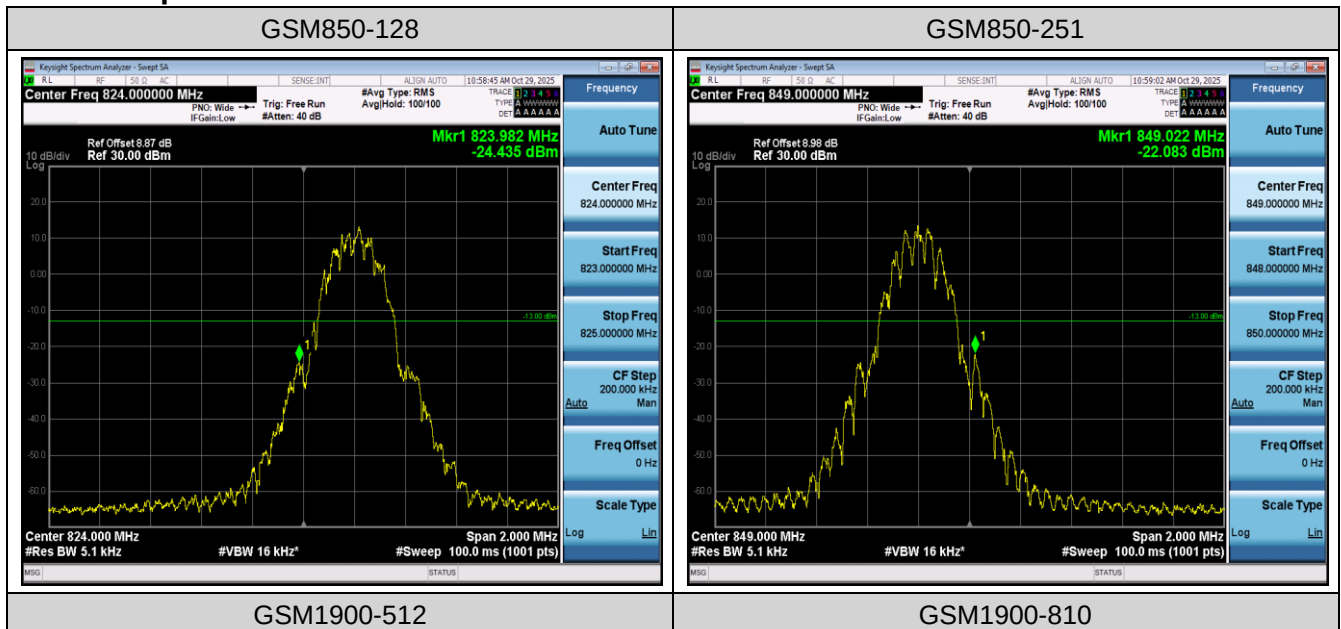


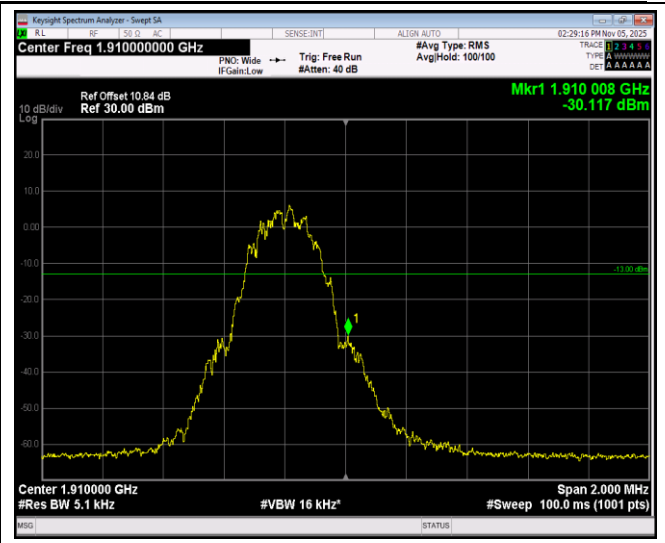
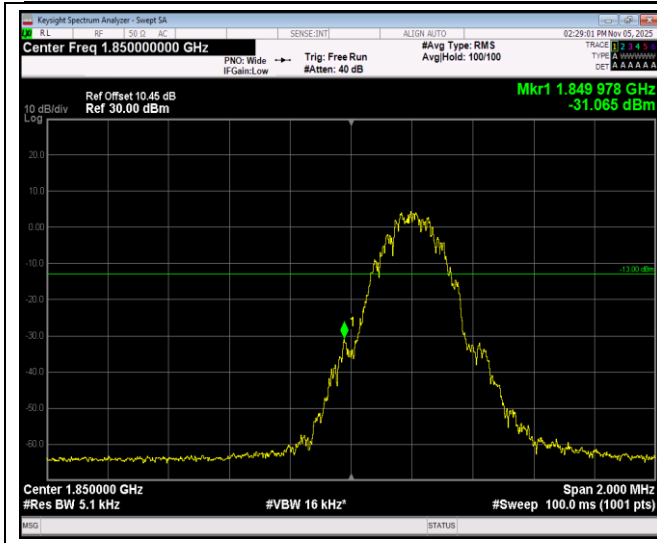
Appendix D: Band Edge

Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	5	823.98	-24.43	-13	PASS
GSM850	251	5	849.02	-22.08	-13	PASS
GSM1900	512	0	1849.98	-31.07	-13	PASS
GSM1900	810	0	1910.02	-30.12	-13	PASS

Test Graphs





Appendix E: Conducted Spurious Emission

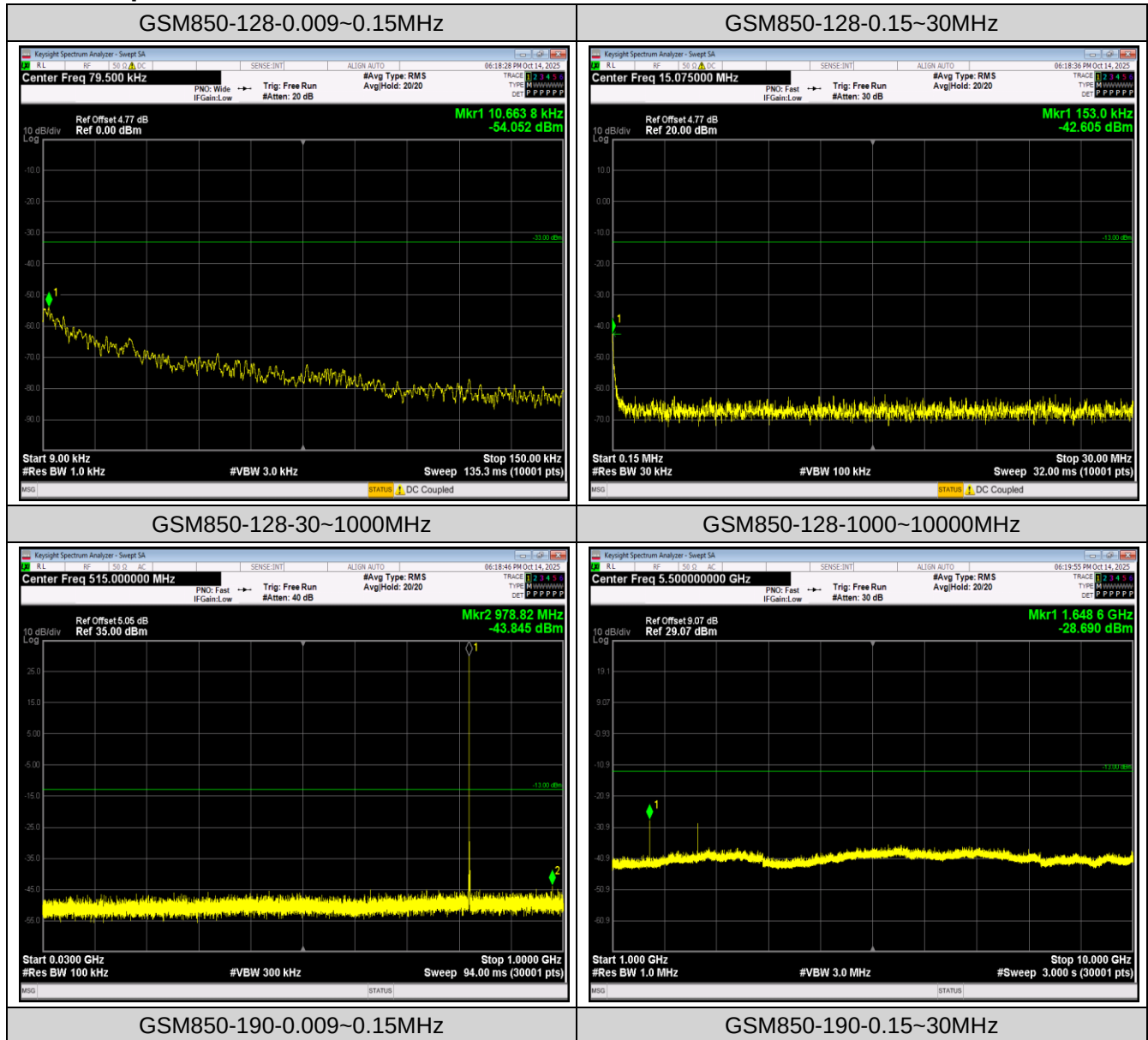
Test Result

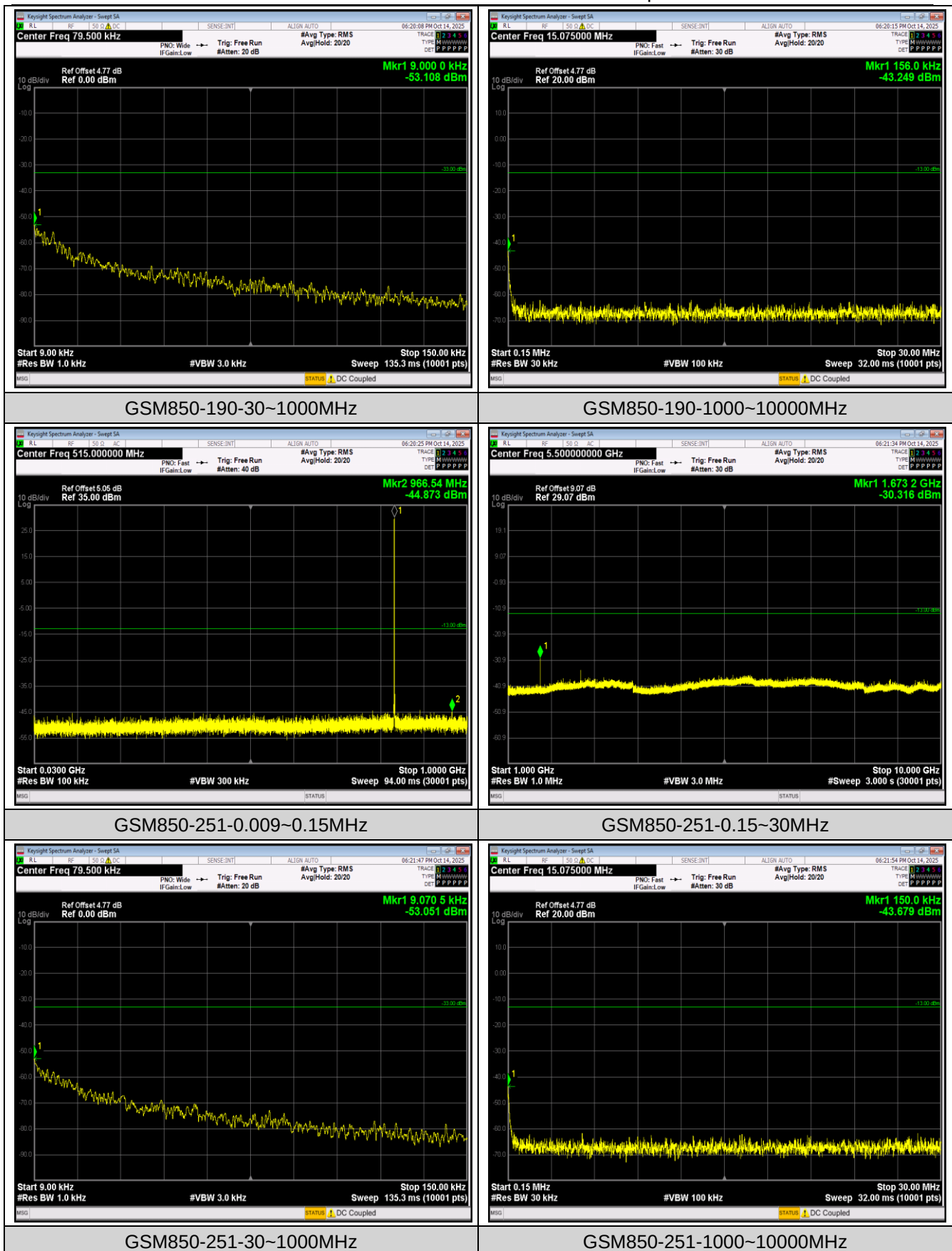
Band	Channel	PCL	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	5	0.009~0.15MHz	0.01	-54.05	-33	PASS
GSM850	128	5	0.15~30MHz	0.15	-42.61	-13	PASS
GSM850	128	5	30~1000MHz	978.82	-43.85	-13	PASS
GSM850	128	5	1000~10000MHz	1648.6	-28.69	-13	PASS
GSM850	190	5	0.009~0.15MHz	0.01	-53.11	-33	PASS
GSM850	190	5	0.15~30MHz	0.16	-43.25	-13	PASS
GSM850	190	5	30~1000MHz	966.54	-44.87	-13	PASS
GSM850	190	5	1000~10000MHz	1673.2	-30.32	-13	PASS
GSM850	251	5	0.009~0.15MHz	0.01	-53.05	-33	PASS
GSM850	251	5	0.15~30MHz	0.15	-43.68	-13	PASS
GSM850	251	5	30~1000MHz	304.12	-45.18	-13	PASS
GSM850	251	5	1000~10000MHz	2546.5	-29.15	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-54.97	-43	PASS
GSM1900	512	0	0.15~30MHz	0.15	-42.47	-23	PASS
GSM1900	512	0	30~1000MHz	913.54	-44.89	-13	PASS
GSM1900	512	0	1000~18000MHz	17026.47	-22.23	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-56.24	-43	PASS
GSM1900	661	0	0.15~30MHz	0.15	-43.31	-23	PASS
GSM1900	661	0	30~1000MHz	981.25	-44.82	-13	PASS
GSM1900	661	0	1000~18000MHz	16998.7	-21.93	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-55.98	-43	PASS
GSM1900	810	0	0.15~30MHz	0.15	-43.7	-23	PASS
GSM1900	810	0	30~1000MHz	586.36	-45.29	-13	PASS
GSM1900	810	0	1000~18000MHz	16974.9	-22.19	-13	PASS

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



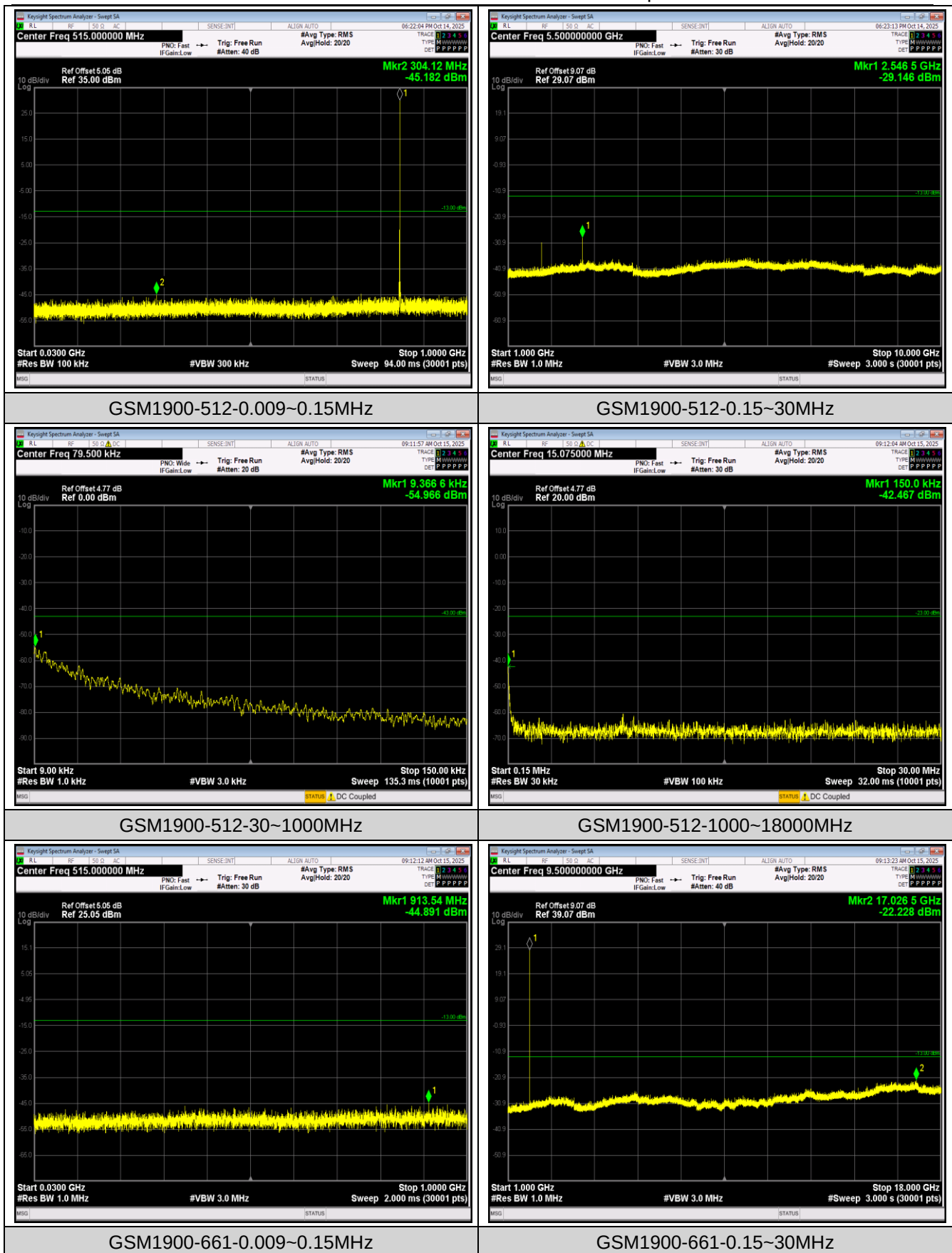
Test Graphs

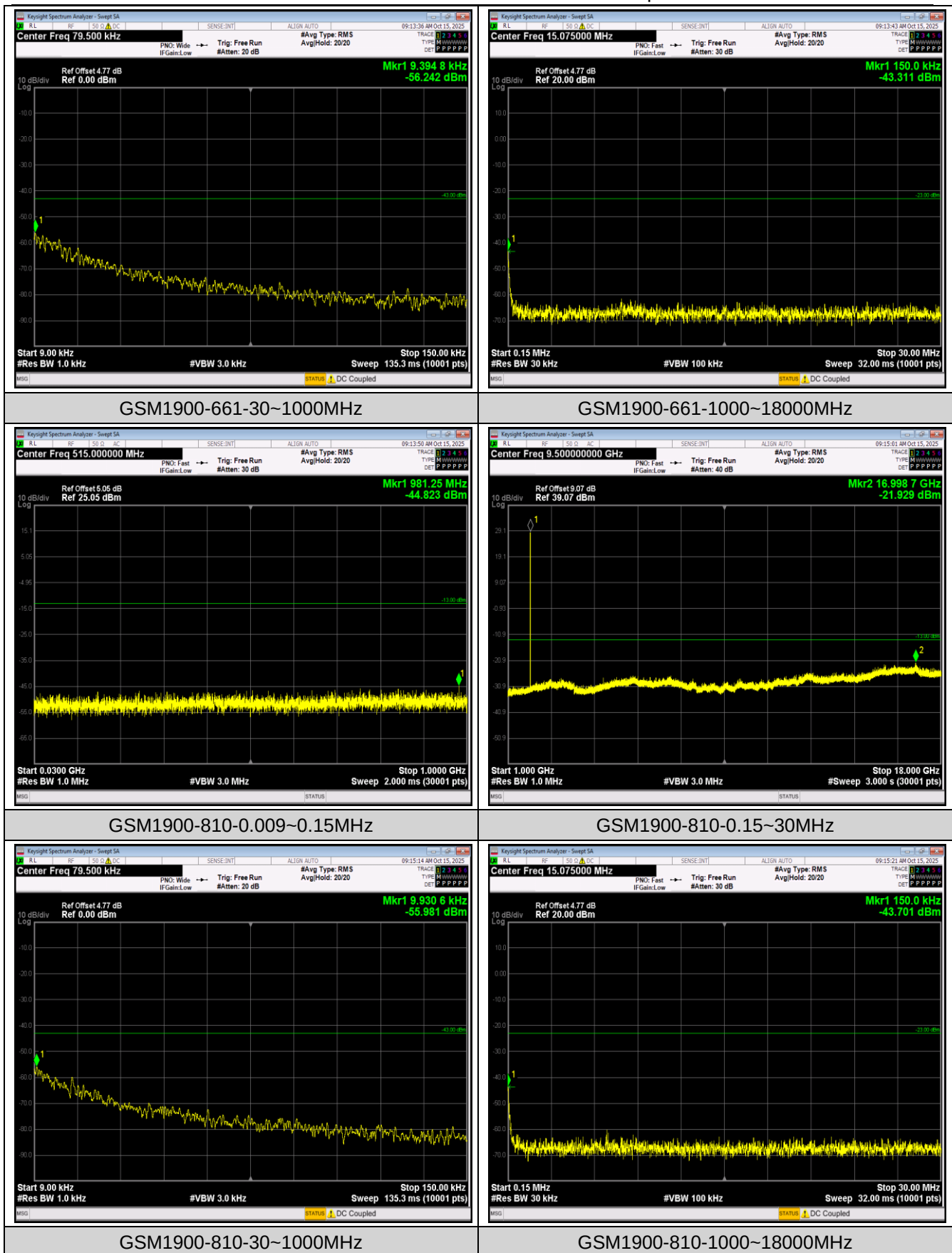




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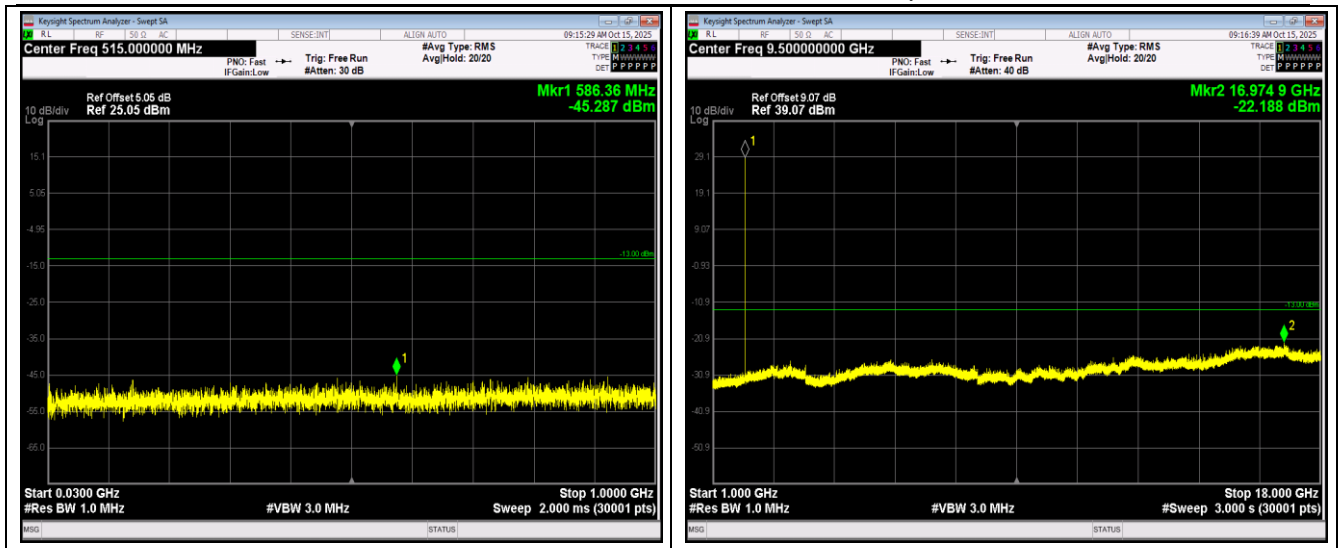
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Appendix F: Frequency Stability

Test Result

Reference Frequency: GSM850 Middle channel=190 Frequency=836.6MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.91	-30	-2.58	-0.003084	±2.5	Pass
	-20	1.71	0.002044		
	-10	4.58	0.005475		
	0	4.55	0.005439		
	10	8.30	0.009921		
	20	5.13	0.006132		
	30	3.23	0.003861		
	40	3.39	0.004052		
	50	4.68	0.005594		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.60	-1.23	-0.001470	±2.5	Pass
	3.91	4.42	0.005283		
	4.50	2.23	0.002666		
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		
3.91	-30	12.14	0.006457	±2.5	Pass
	-20	14.69	0.007814		
	-10	10.59	0.005633		
	0	2.62	0.001394		
	10	21.34	0.011351		
	20	11.56	0.006149		
	30	16.50	0.008777		
	40	7.85	0.004176		
	50	3.16	0.001681		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	3.60	3.16	0.001681	±2.5	Pass
	3.91	9.36	0.004979		
	4.50	2.42	0.001287		
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

