

APPENDIX RF TEST DATA

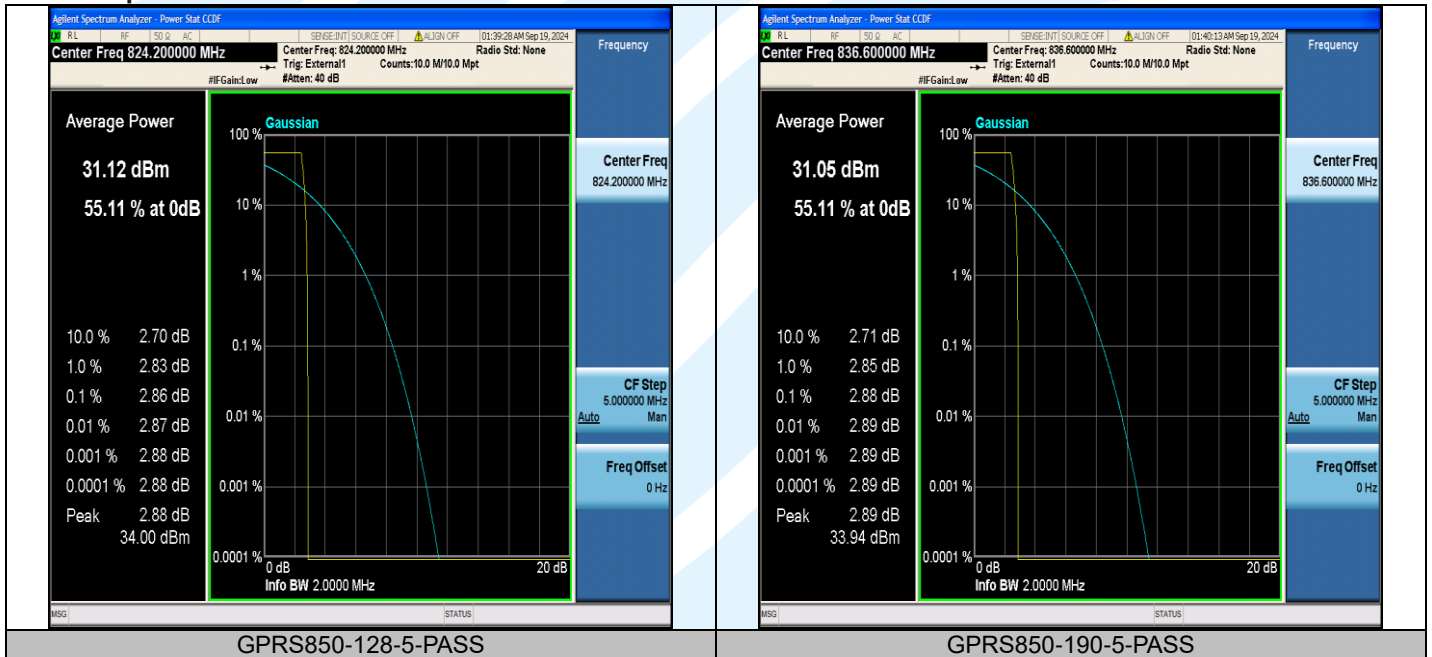
APPENDIX A: GSM

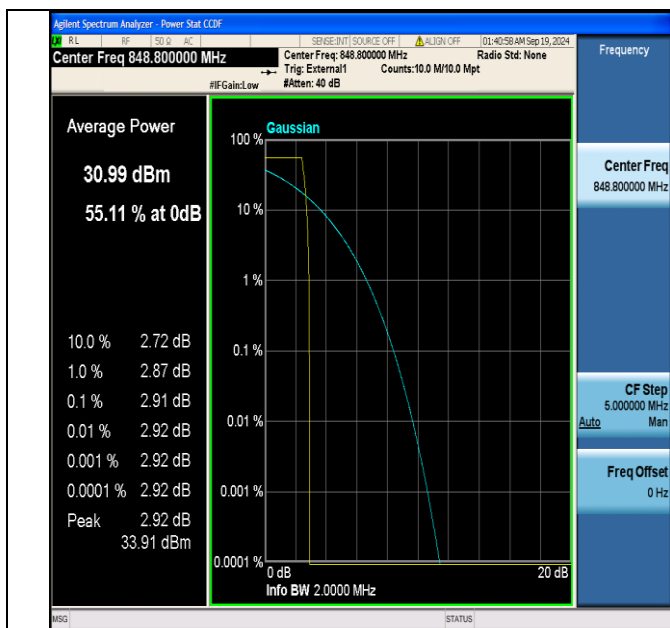
APPENDIX A1: PEAK-TO-AVERAGE RATIO(CCDF)

GSM 850& PCS 1900

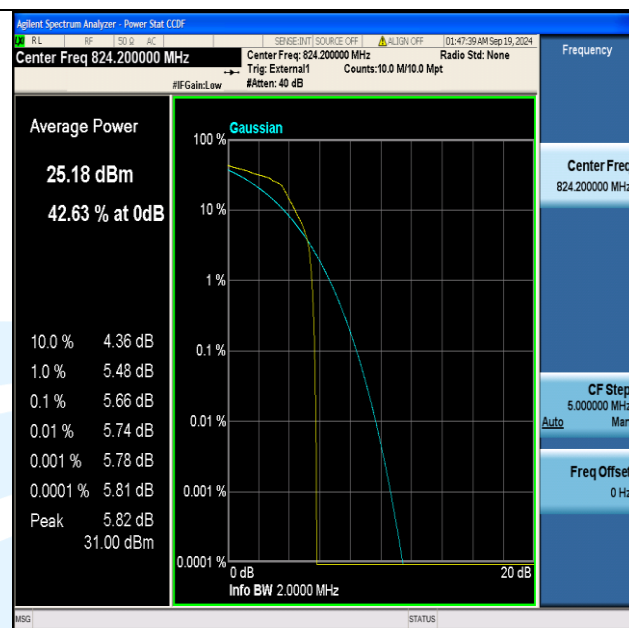
Band	Channel	Result(dB)	Limit(dB)	Verdict
GPRS850	128	2.86	13	PASS
GPRS850	190	2.88	13	PASS
GPRS850	251	2.91	13	PASS
EGPRS850	128	5.66	13	PASS
EGPRS850	190	5.68	13	PASS
EGPRS850	251	5.69	13	PASS
GPRS1900	512	2.81	13	PASS
GPRS1900	661	2.76	13	PASS
GPRS1900	810	2.72	13	PASS
EGPRS1900	512	5.72	13	PASS
EGPRS1900	661	5.68	13	PASS
EGPRS1900	810	5.66	13	PASS

Test Graphs





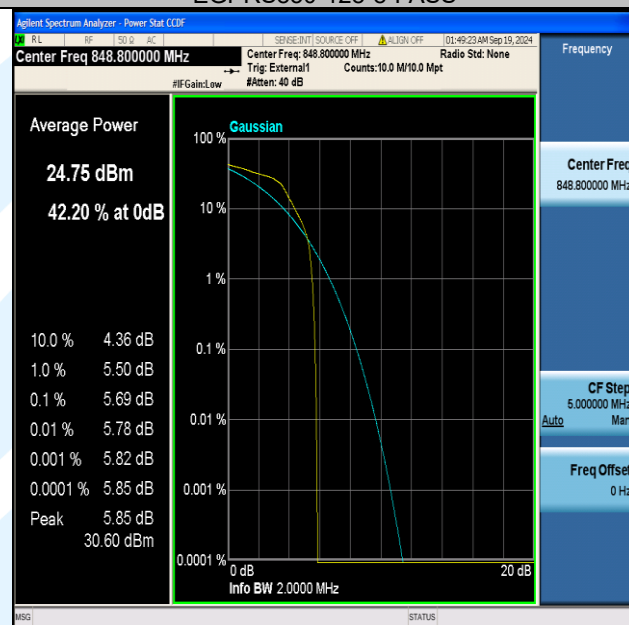
GPRS850-251-5-PASS



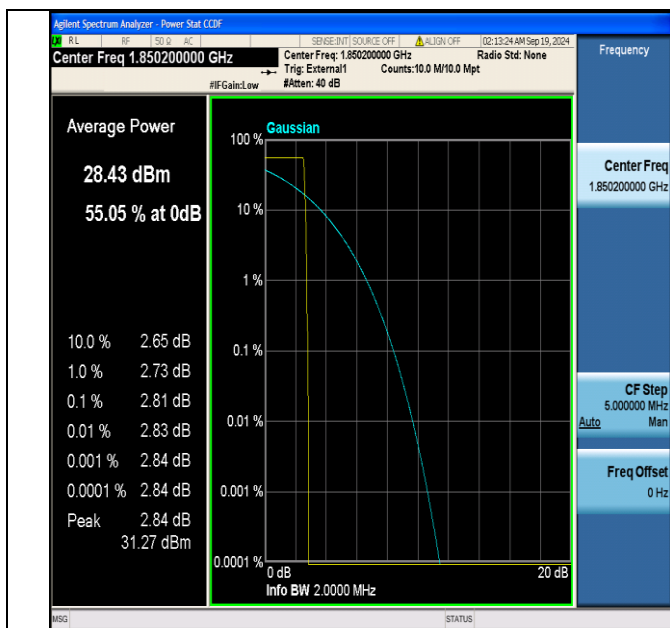
EGPRS850-128-8-PASS



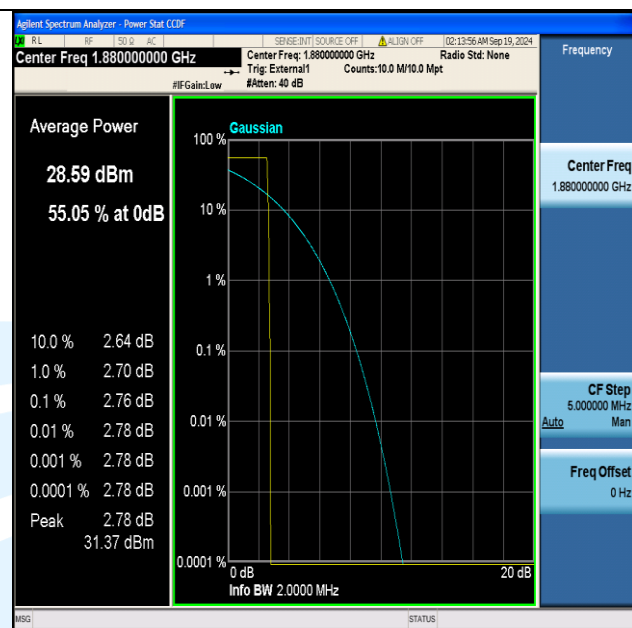
EGPRS850-190-8-PASS



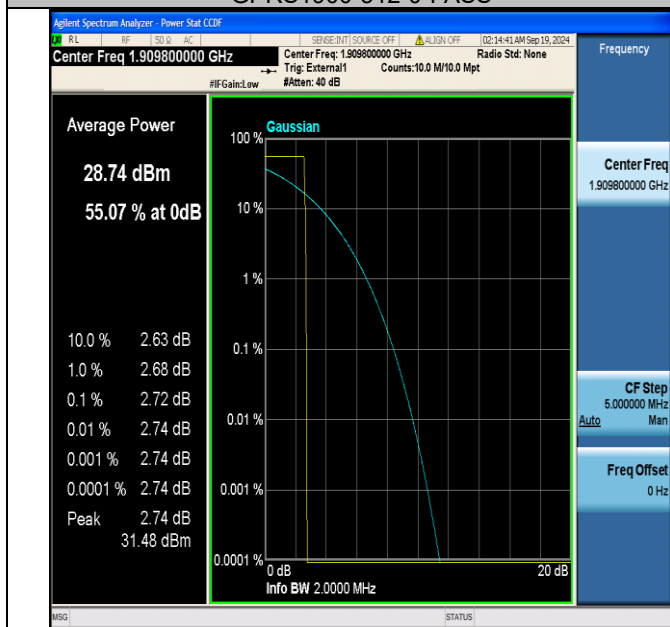
EGPRS850-251-8-PASS



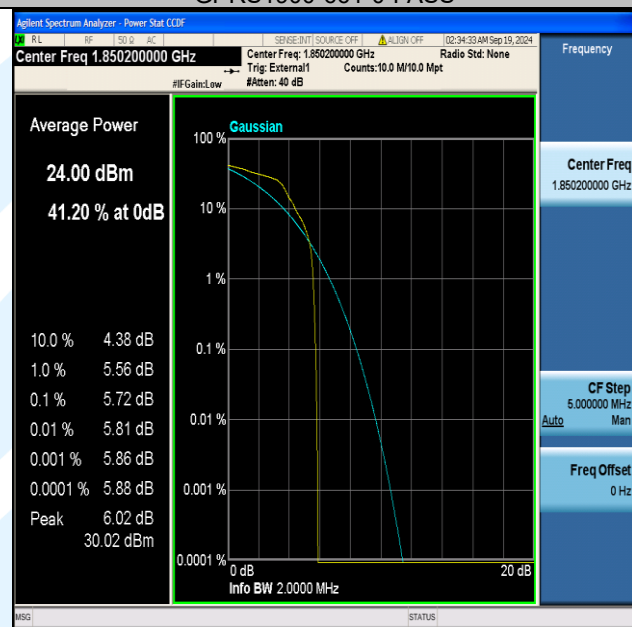
GPRS1900-512-0-PASS



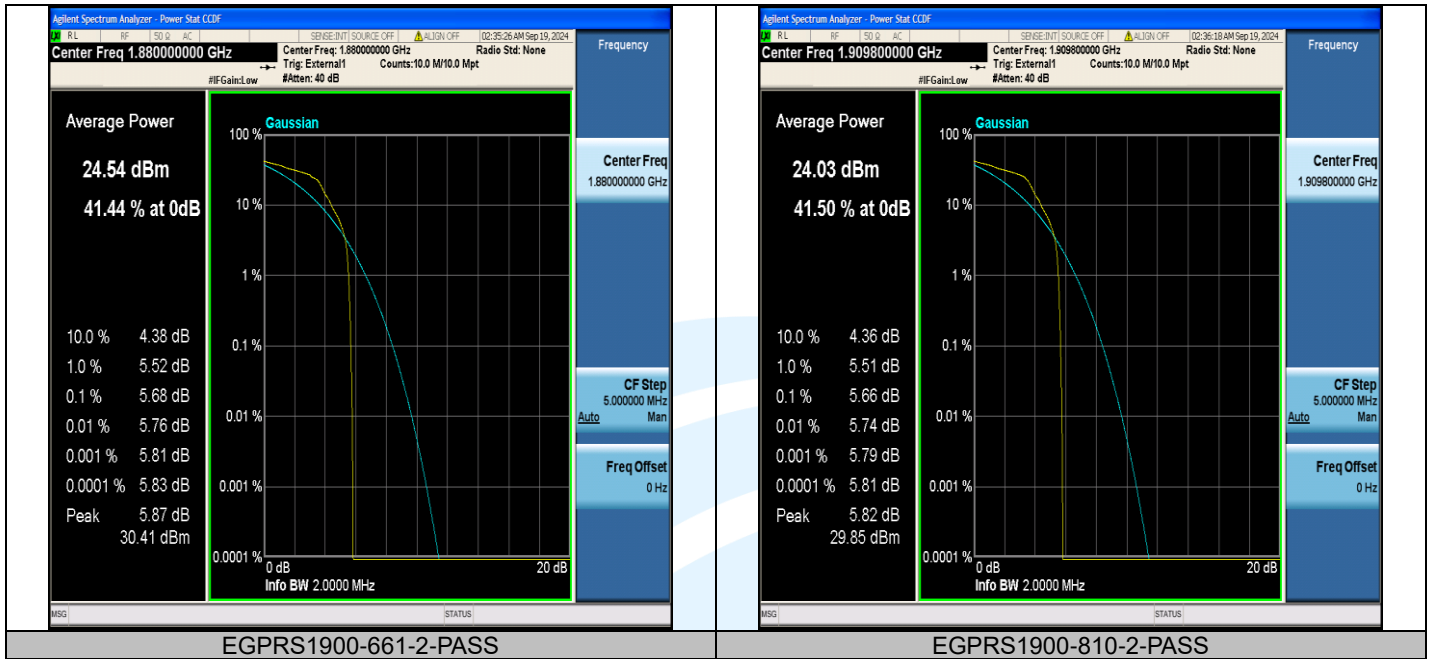
GPRS1900-661-0-PASS



GPRS1900-810-0-PASS



EGPRS1900-512-2-PASS



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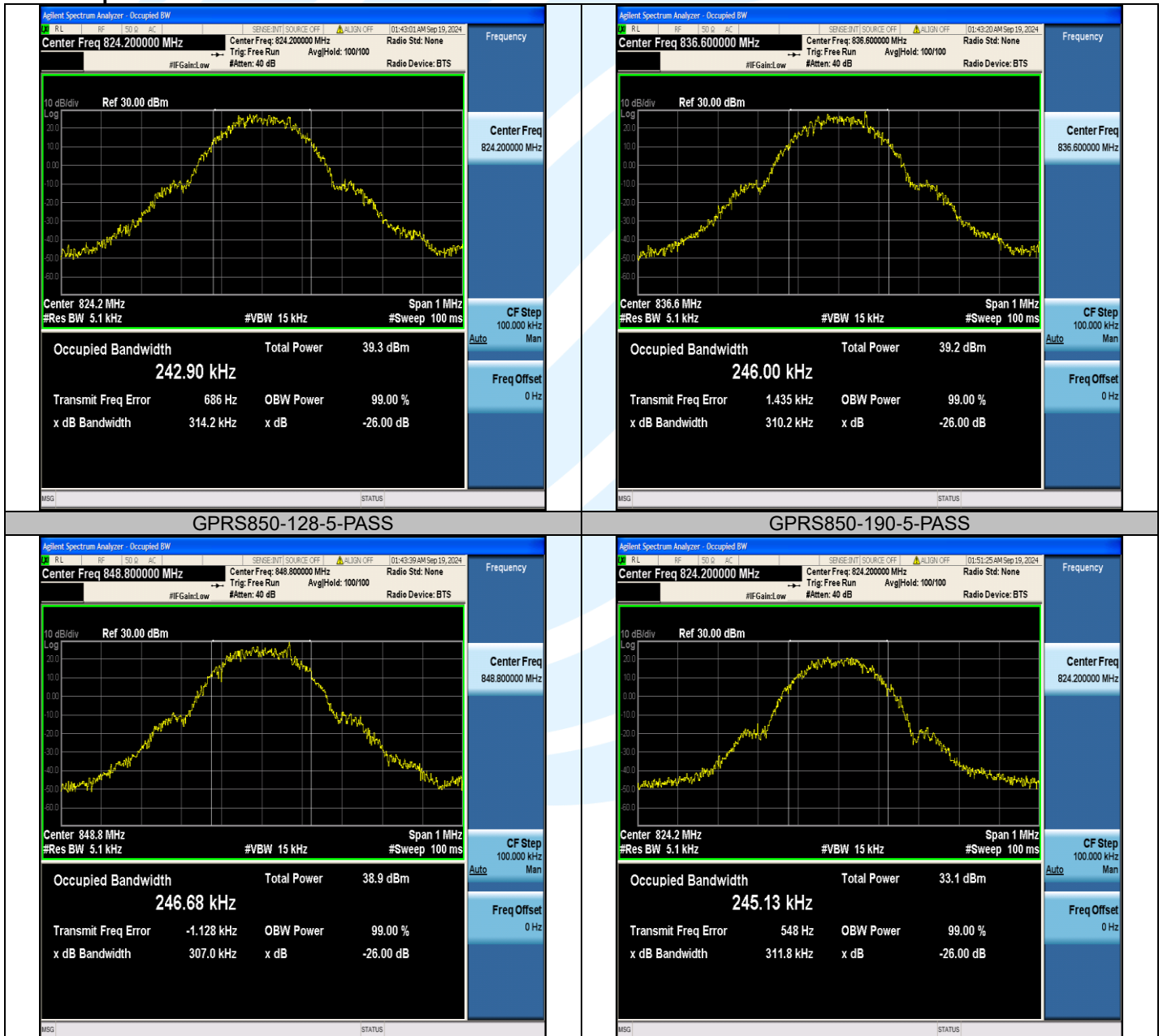
[Http://www.uttlab.com](http://www.uttlab.com)

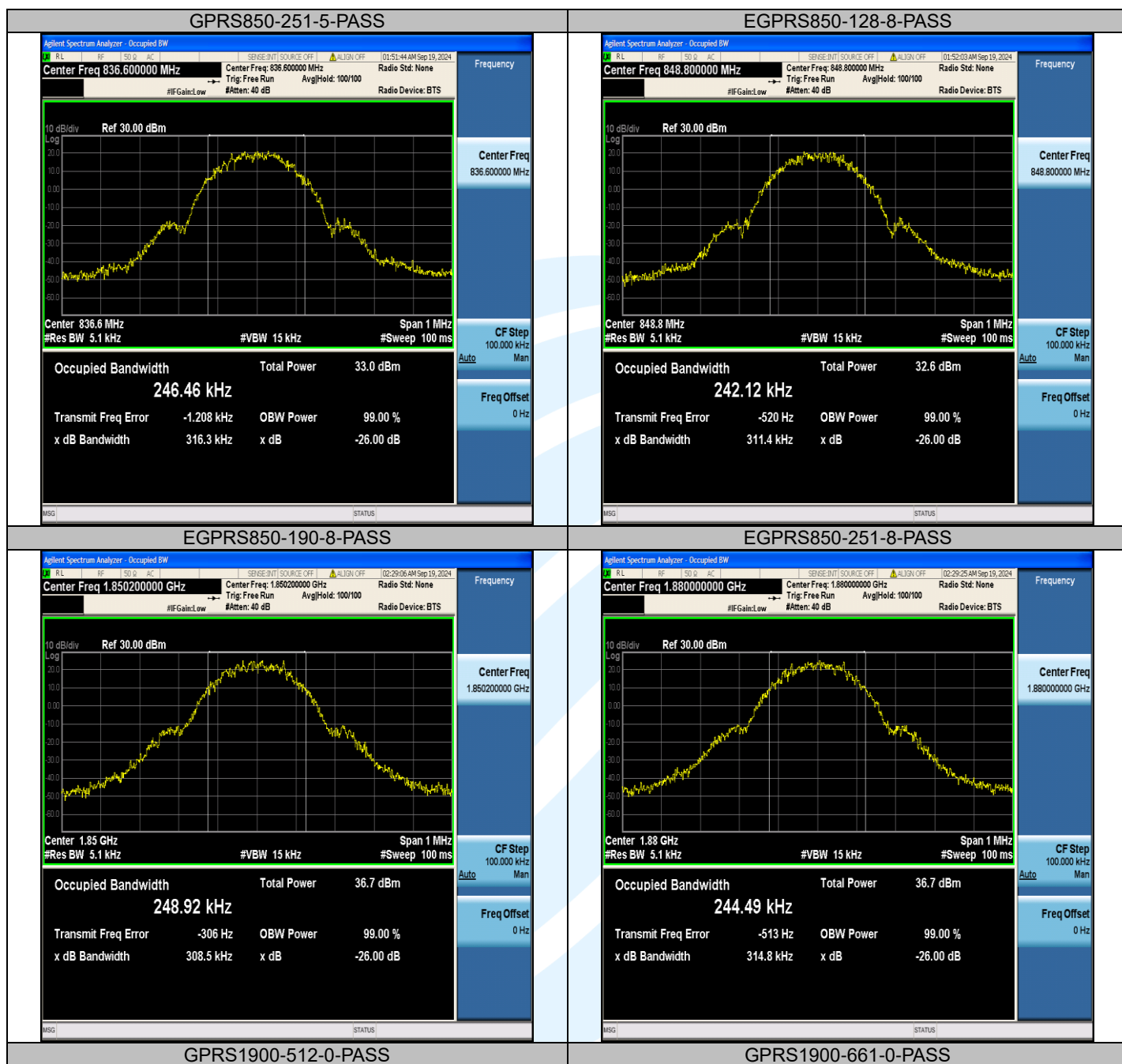
APPENDIX A2: 26DB BANDWIDTH AND OCCUPIED BANDWIDTH

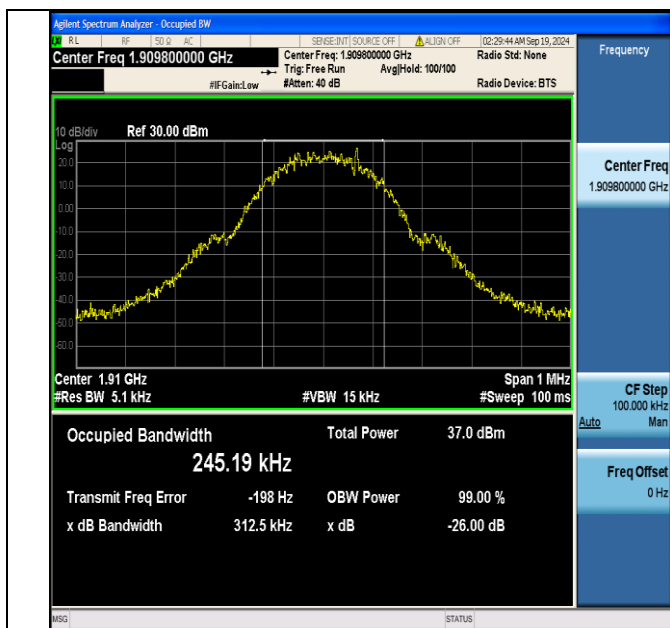
Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GPRS850	128	0.24290	0.3142	---	PASS
GPRS850	190	0.24600	0.3102	---	PASS
GPRS850	251	0.24668	0.3070	---	PASS
EGPRS850	128	0.24513	0.3118	---	PASS
EGPRS850	190	0.24646	0.3163	---	PASS
EGPRS850	251	0.24212	0.3114	---	PASS
GPRS1900	512	0.24892	0.3085	---	PASS
GPRS1900	661	0.24449	0.3148	---	PASS
GPRS1900	810	0.24519	0.3125	---	PASS
EGPRS1900	512	0.24171	0.3061	---	PASS
EGPRS1900	661	0.23900	0.3028	---	PASS
EGPRS1900	810	0.24145	0.2990	---	PASS

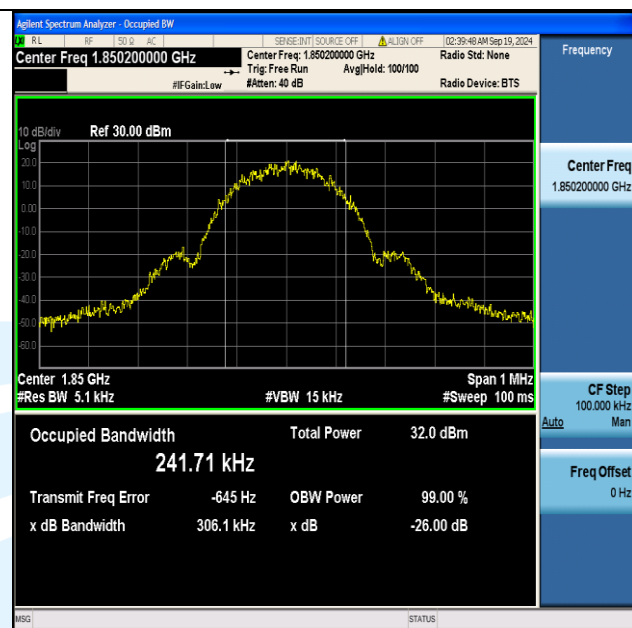
Test Graphs



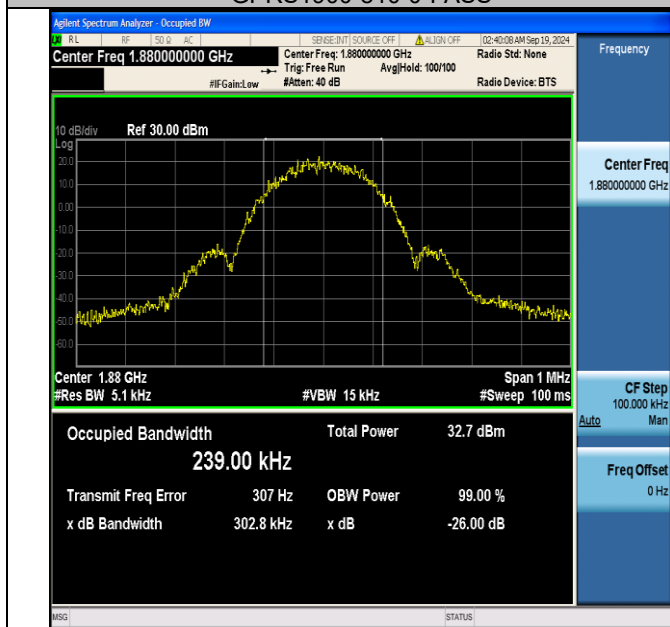




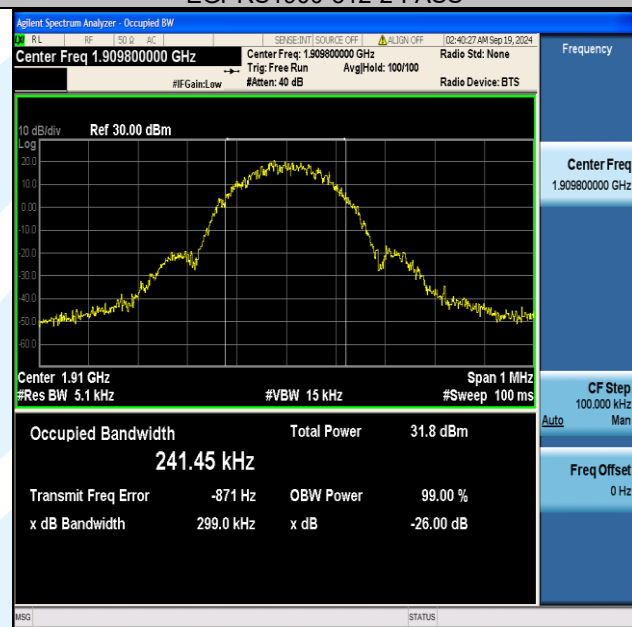
GPRS1900-810-0-PASS



EGPRS1900-512-2-PASS



EGPRS1900-661-2-PASS



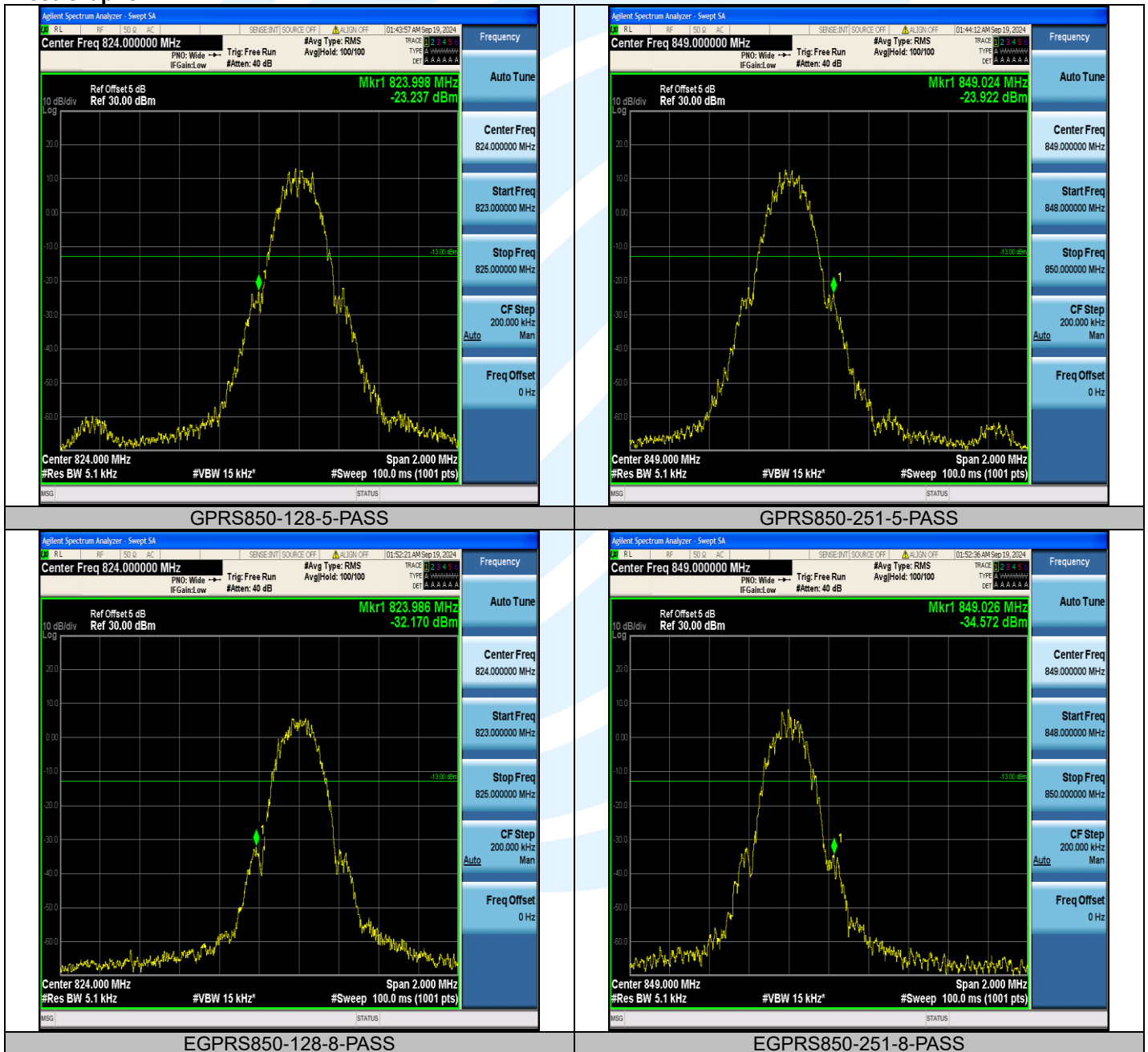
EGPRS1900-810-2-PASS

APPENDIX A3: BAND EDGE

Test Result

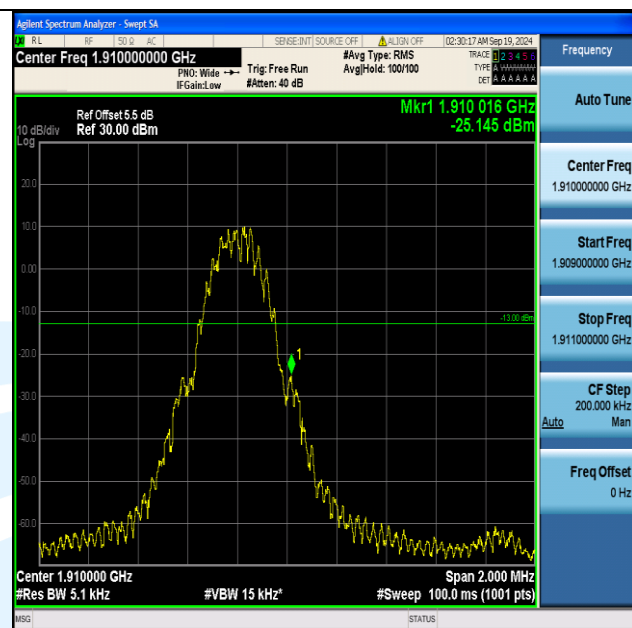
Band	Channel	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GPRS850	128	824.00	-23.24	-13	PASS
GPRS850	251	849.02	-23.92	-13	PASS
EGPRS850	128	823.99	-32.17	-13	PASS
EGPRS850	251	849.03	-34.57	-13	PASS
GPRS1900	512	1849.99	-24.79	-13	PASS
GPRS1900	810	1910.02	-25.14	-13	PASS
EGPRS1900	512	1849.97	-32.02	-13	PASS
EGPRS1900	810	1910.02	-31.99	-13	PASS

Test Graphs





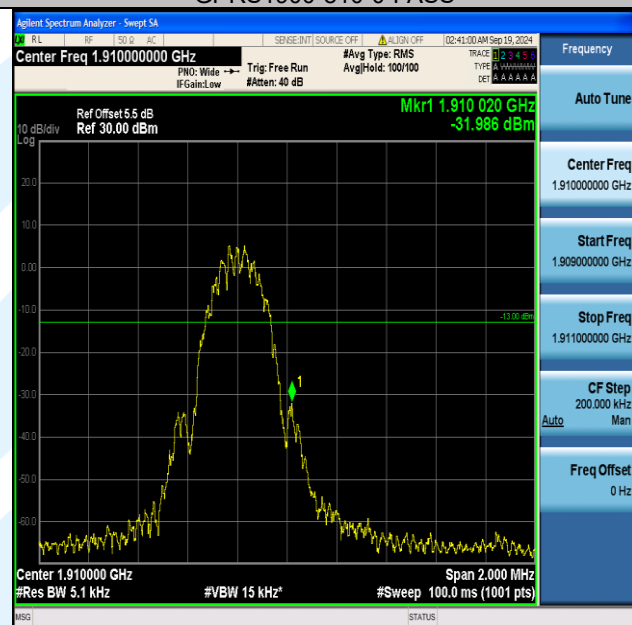
GPRS1900-512-0-PASS



GPRS1900-810-0-PASS



EGPRS1900-512-2-PASS



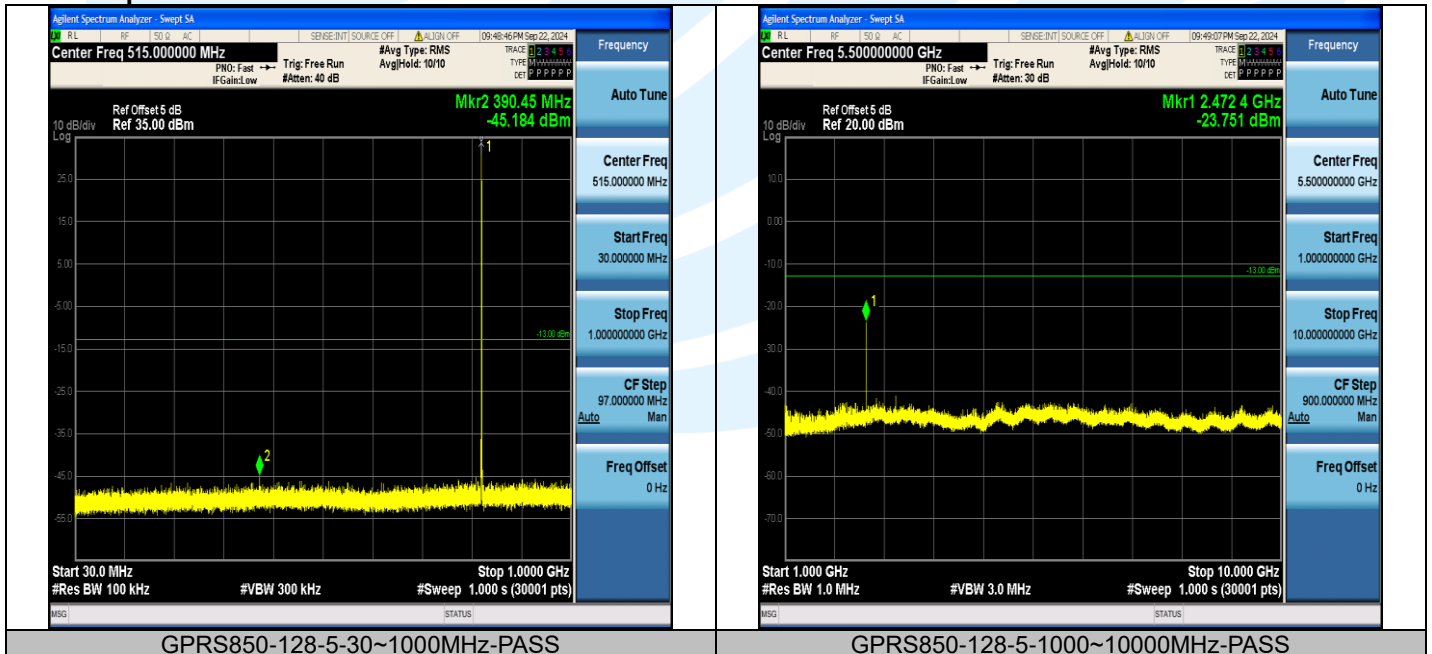
EGPRS1900-810-2-PASS

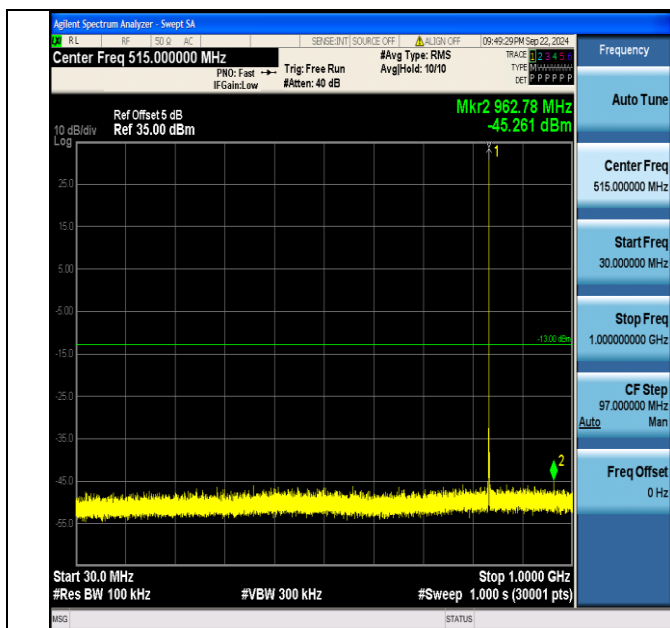
APPENDIX A4: CONDUCTED SPURIOUS EMISSION

Test Result

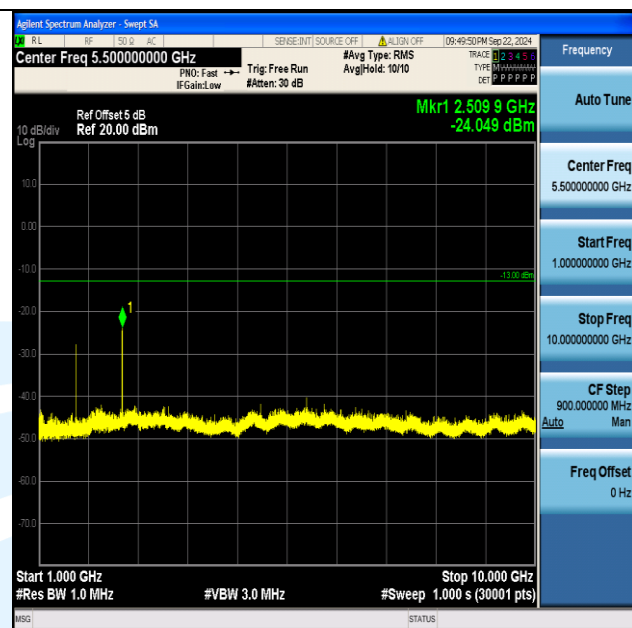
Band	Channel	Frequency Range(MHz)	Max.Freq.(MHz)	Result (dBm)	Limit (dBm)	Verdict
GPRS850	128	30~1000MHz	390.45	-45.18	-13	PASS
GPRS850	128	1000~10000MHz	2472.4	-23.75	-13	PASS
GPRS850	190	30~1000MHz	962.78	-45.26	-13	PASS
GPRS850	190	1000~10000MHz	2509.9	-24.05	-13	PASS
GPRS850	251	30~1000MHz	950.37	-45.93	-13	PASS
GPRS850	251	1000~10000MHz	2546.2	-24	-13	PASS
EGPRS850	128	30~1000MHz	691.51	-44.85	-13	PASS
EGPRS850	128	1000~10000MHz	2472.4	-31.84	-13	PASS
EGPRS850	190	30~1000MHz	973.52	-44.85	-13	PASS
EGPRS850	190	1000~10000MHz	1673.2	-32.95	-13	PASS
EGPRS850	251	30~1000MHz	747.9	-45.09	-13	PASS
EGPRS850	251	1000~10000MHz	1697.5	-34.82	-13	PASS
GPRS1900	512	30~1000MHz	908.34	-43.59	-13	PASS
GPRS1900	512	1000~3000MHz	2689.67	-25.75	-13	PASS
GPRS1900	512	3000~18000MHz	16506	-37.89	-13	PASS
GPRS1900	661	30~1000MHz	908.82	-44.38	-13	PASS
GPRS1900	661	1000~3000MHz	2728.8	-25.97	-13	PASS
GPRS1900	661	3000~18000MHz	16344	-37.44	-13	PASS
GPRS1900	810	30~1000MHz	445.03	-43.46	-13	PASS
GPRS1900	810	1000~3000MHz	2750.53	-25.77	-13	PASS
GPRS1900	810	3000~18000MHz	16448.5	-37.26	-13	PASS
EGPRS1900	512	30~1000MHz	844.86	-43.08	-13	PASS
EGPRS1900	512	1000~3000MHz	2546.67	-25.65	-13	PASS
EGPRS1900	512	3000~18000MHz	16231	-37.75	-13	PASS
EGPRS1900	661	30~1000MHz	895.43	-42.35	-13	PASS
EGPRS1900	661	1000~3000MHz	2730.27	-25.78	-13	PASS
EGPRS1900	661	3000~18000MHz	16423	-37.26	-13	PASS
EGPRS1900	810	30~1000MHz	844.61	-41.14	-13	PASS
EGPRS1900	810	1000~3000MHz	2667.6	-25.96	-13	PASS
EGPRS1900	810	3000~18000MHz	16386.5	-37.77	-13	PASS

Test Graphs

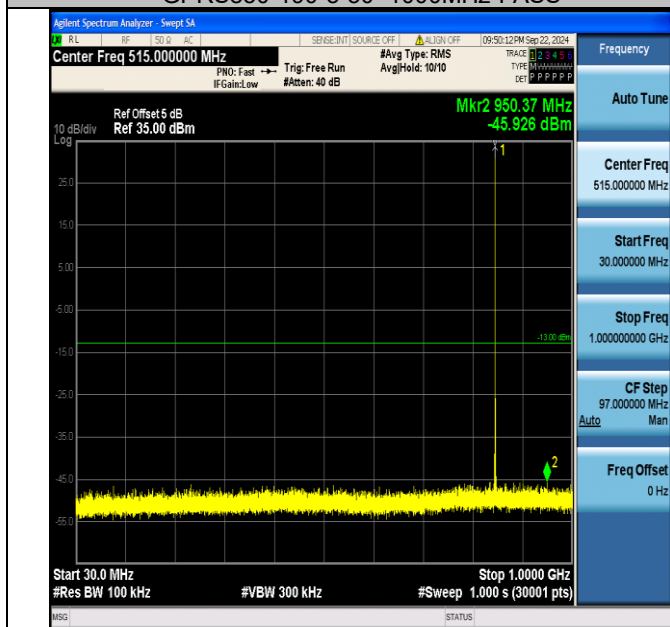




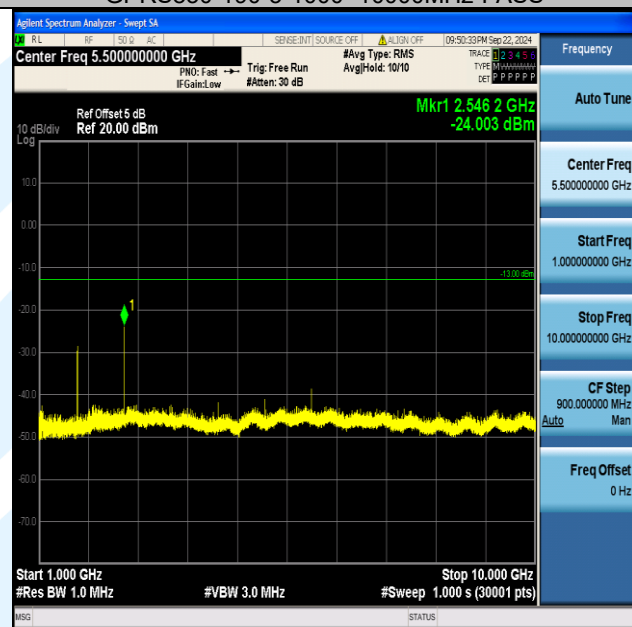
GPRS850-190-5-30~1000MHz-PASS



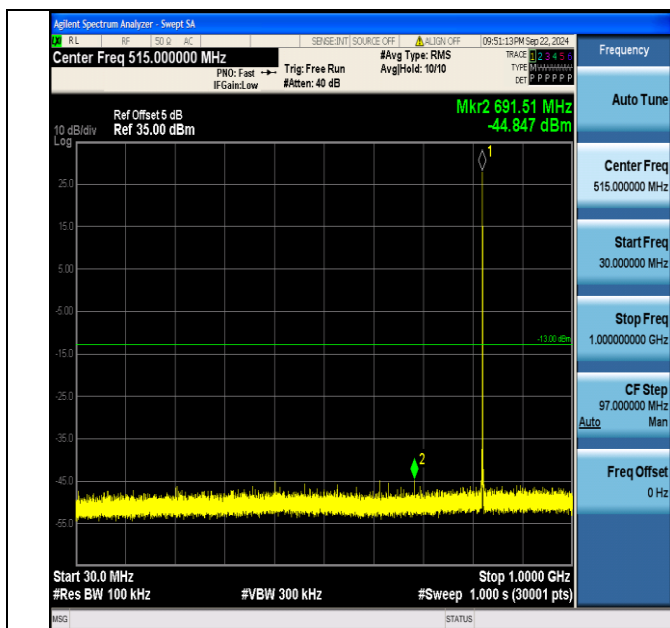
GPRS850-190-5-1000~10000MHz-PASS



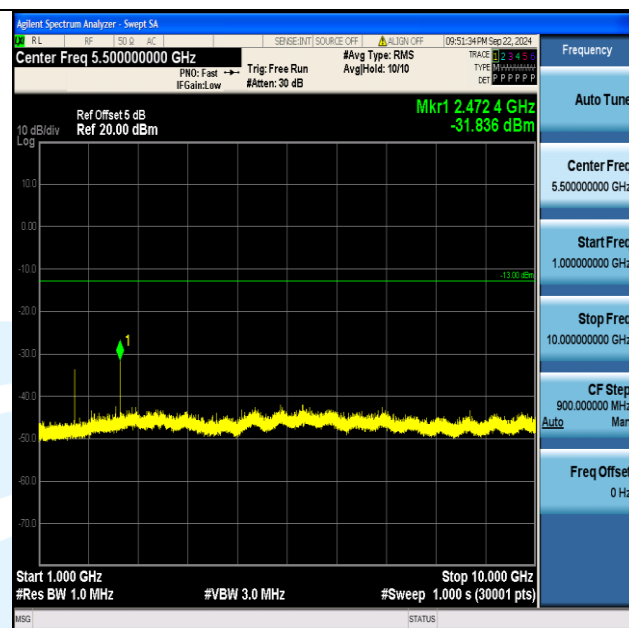
GPRS850-251-5-30~1000MHz-PASS



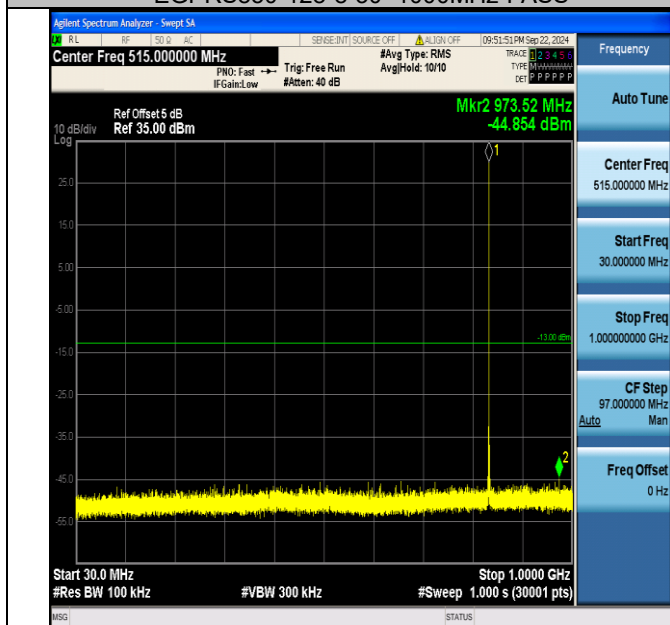
GPRS850-251-5-1000~10000MHz-PASS



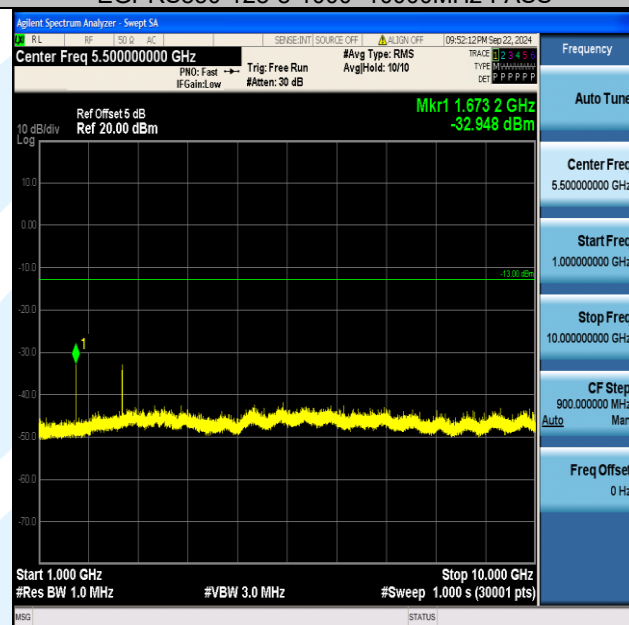
EGPRS850-128-8-30~1000MHz-PASS



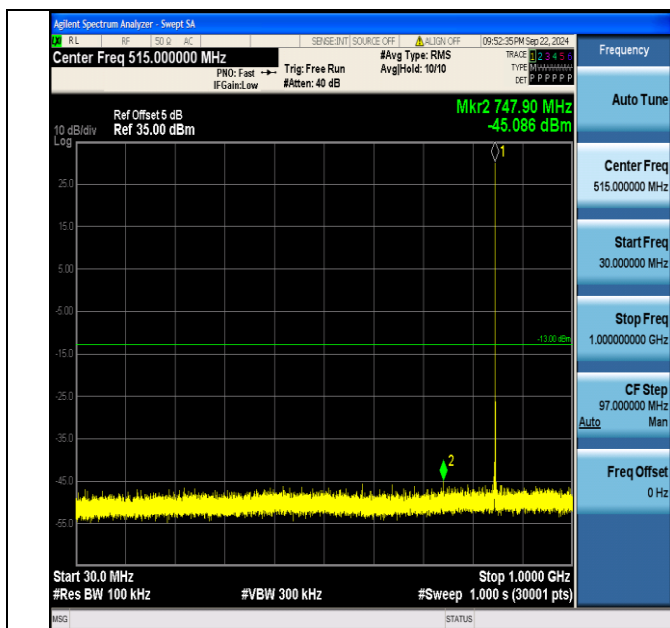
EGPRS850-128-8-1000~10000MHz-PASS



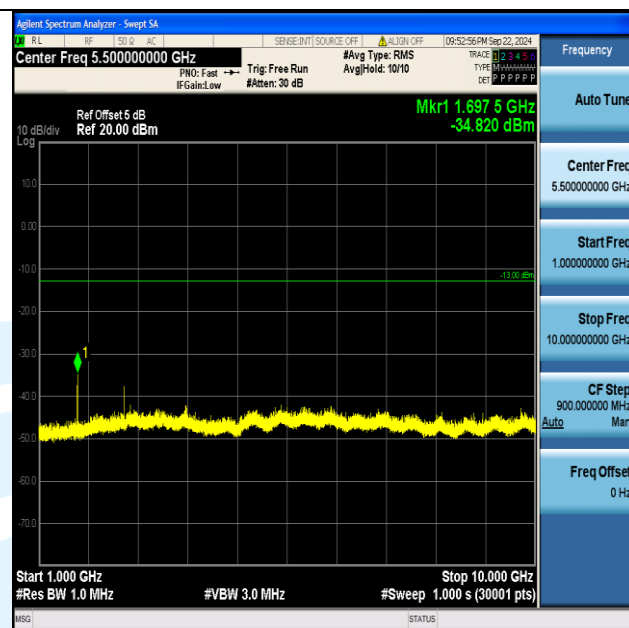
EGPRS850-190-8-30~1000MHz-PASS



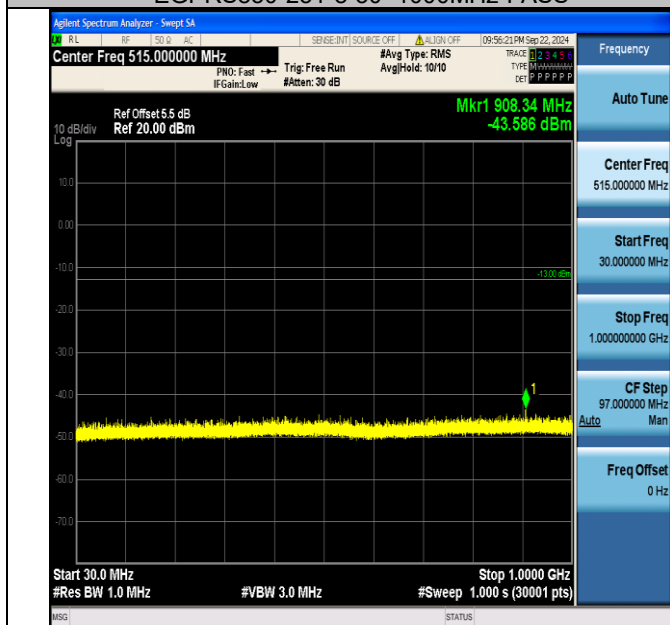
EGPRS850-190-8-1000~10000MHz-PASS



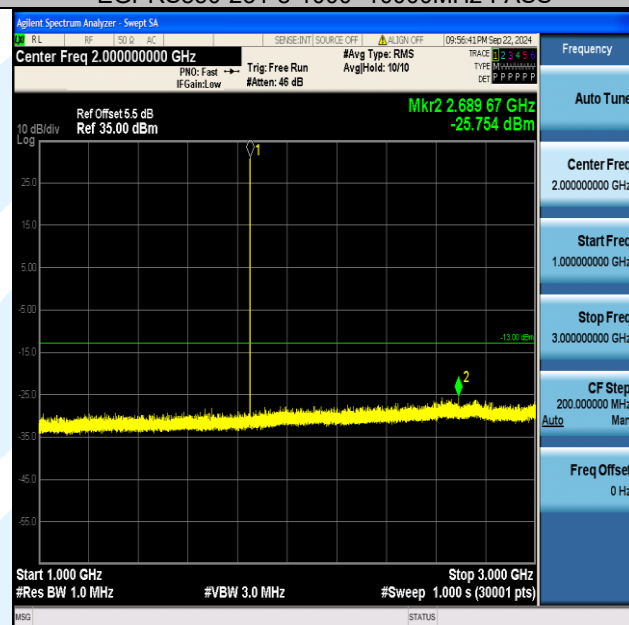
EGPRS850-251-8-30~1000MHz-PASS



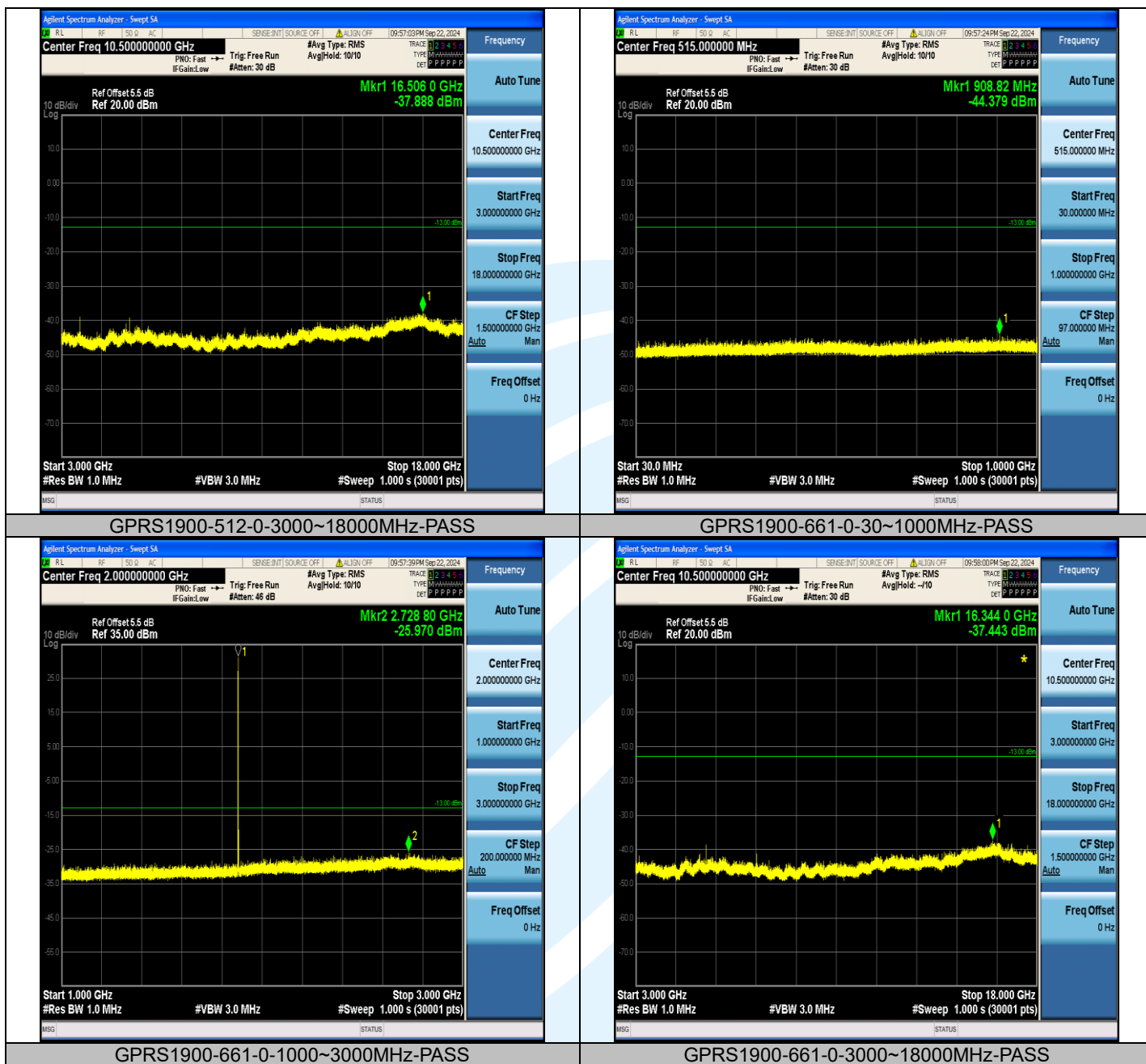
EGPRS850-251-8-1000~10000MHz-PASS

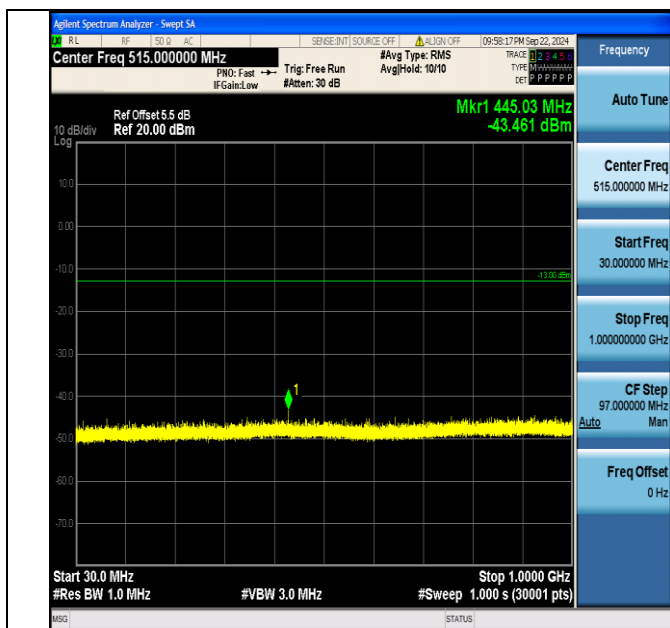


GPRS1900-512-0-30~1000MHz-PASS

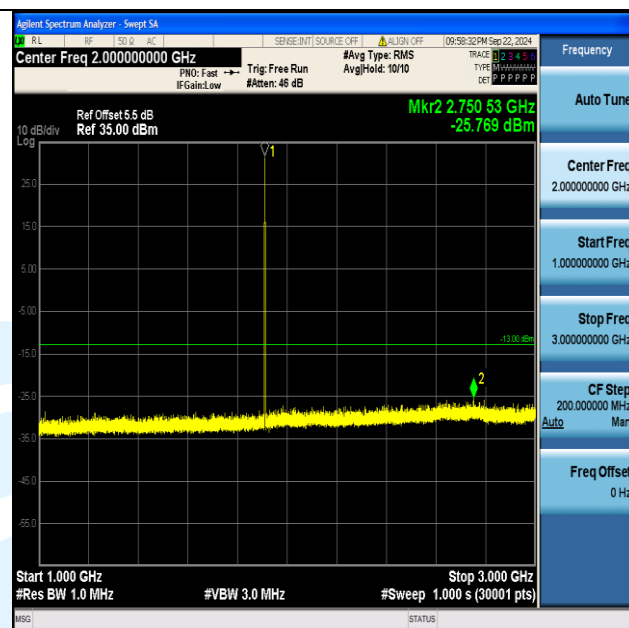


GPRS1900-512-0-1000~3000MHz-PASS

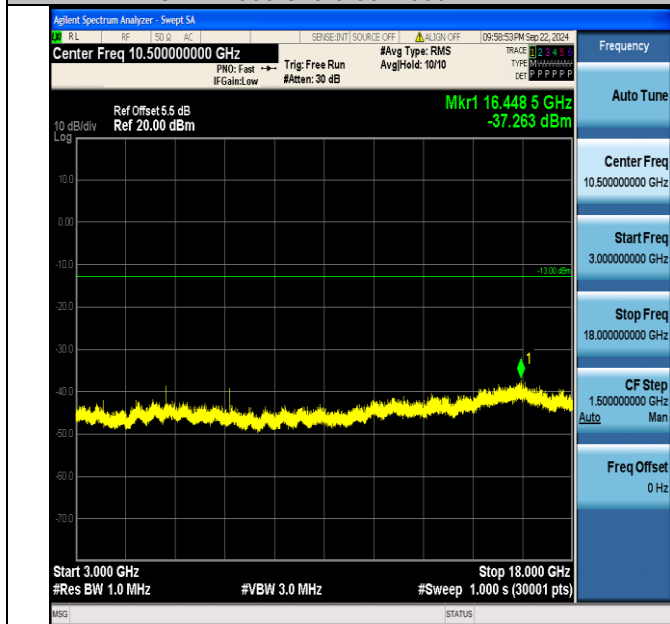




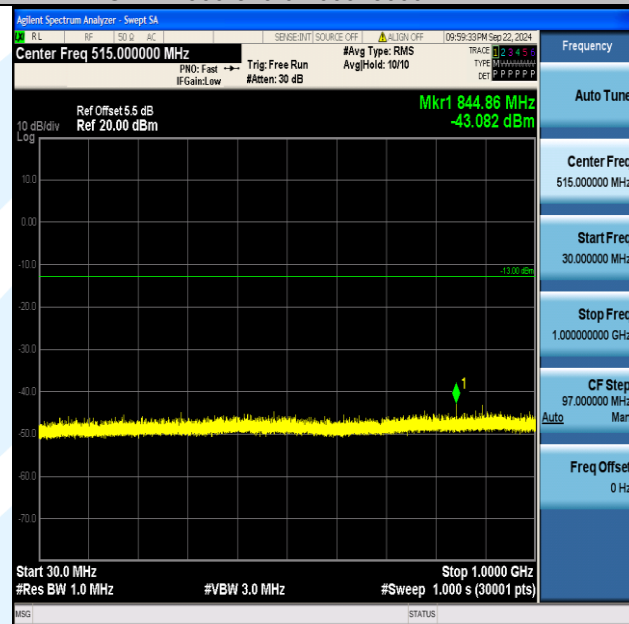
GPRS1900-810-0-30~1000MHz-PASS



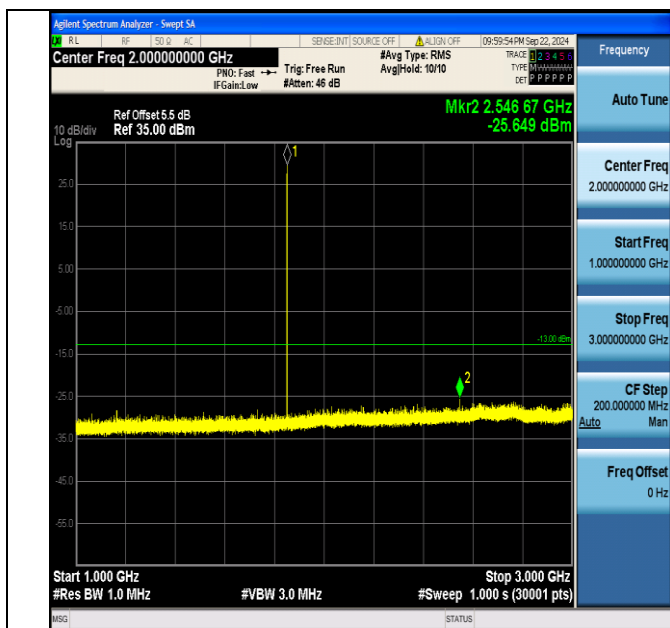
GPRS1900-810-0-1000~3000MHz-PASS



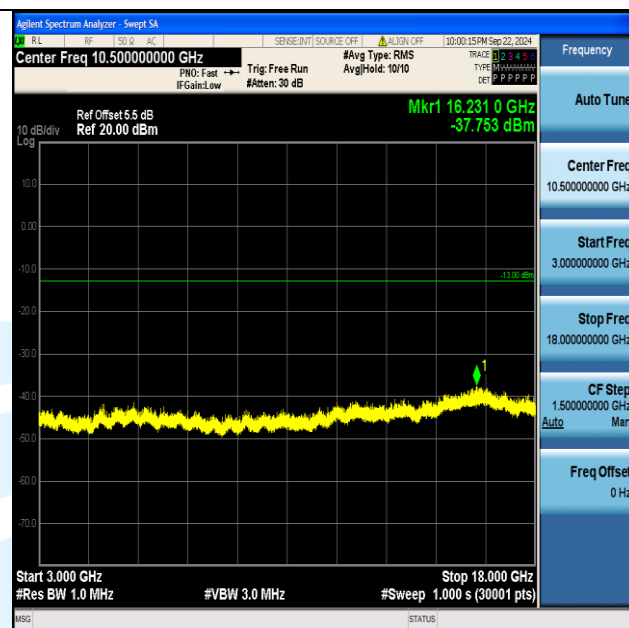
GPRS1900-810-0-3000~18000MHz-PASS



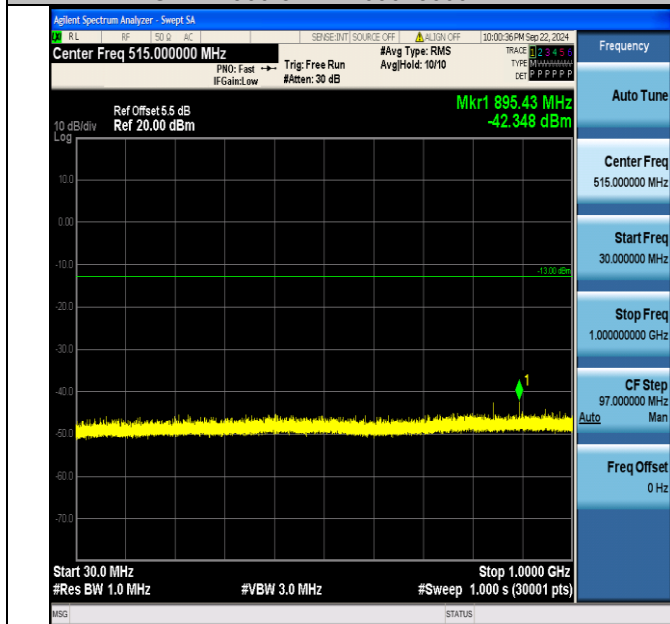
EGPRS1900-512-2-30~1000MHz-PASS



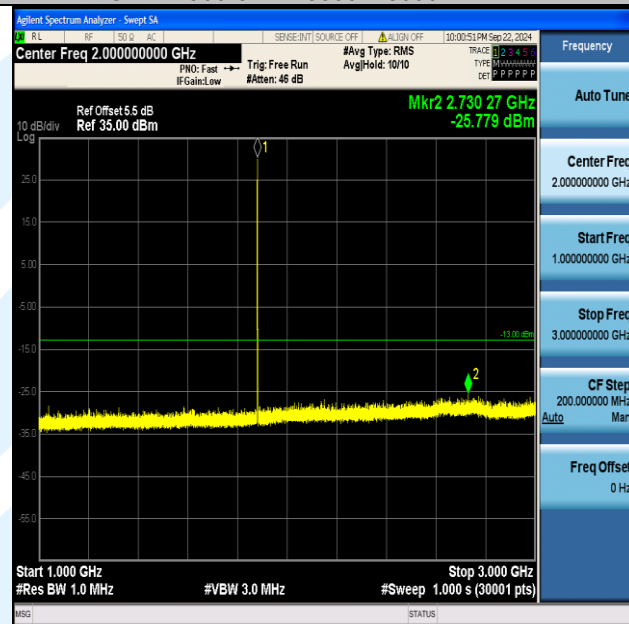
EGPRS1900-512-2-1000~3000MHz-PASS



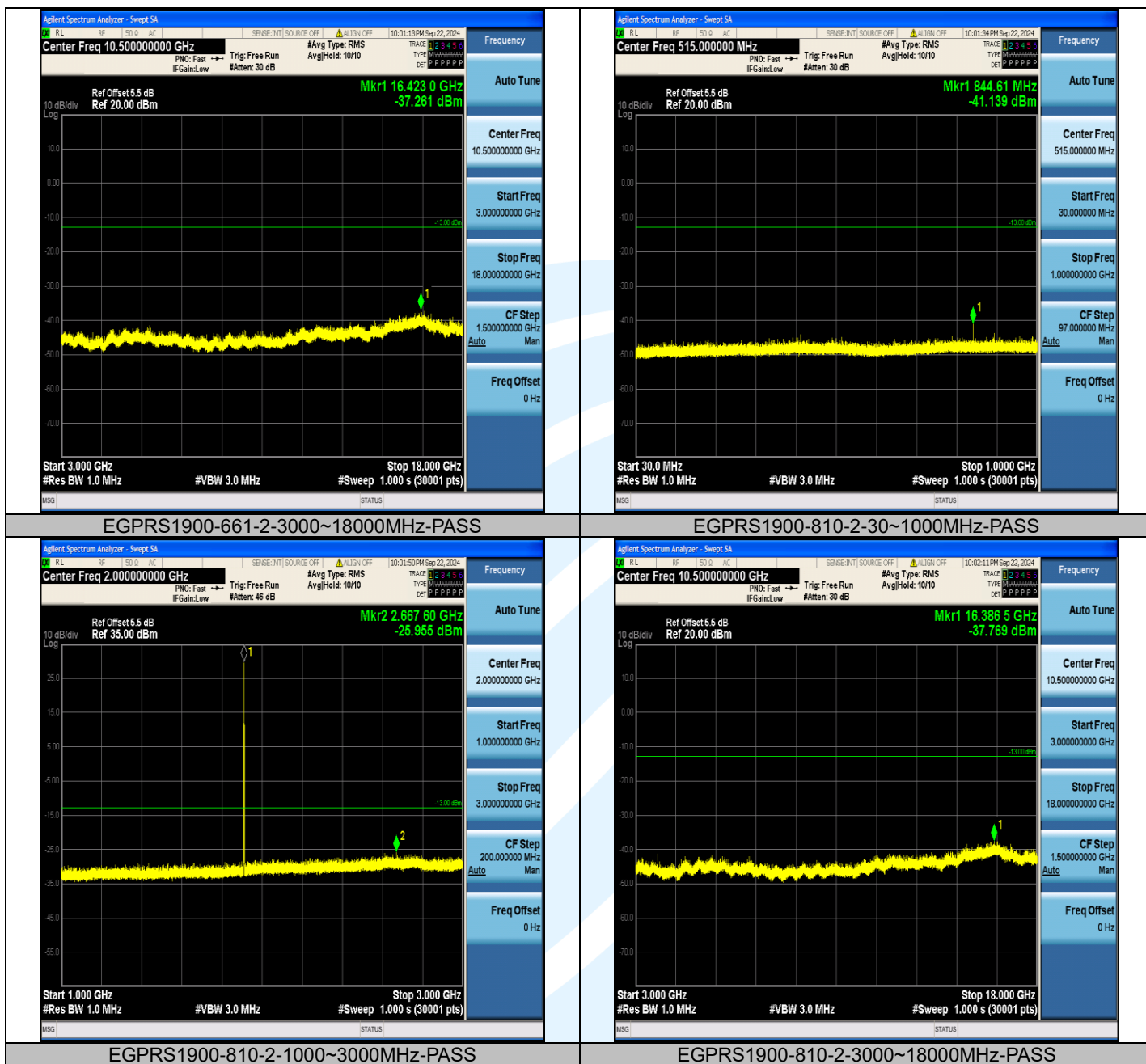
EGPRS1900-512-2-3000~18000MHz-PASS



EGPRS1900-661-2-30~1000MHz-PASS



EGPRS1900-661-2-1000~3000MHz-PASS



APPENDIX A5: FREQUENCY STABILITY

Test Result

Band	Channel	Voltage [Vdc]	Temperature				Verdict
			Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	
GPRS850	190	NV	-30	7.49	0.008953	±2.5	PASS
GPRS850	190	NV	-20	3.71	0.004435	±2.5	PASS
GPRS850	190	NV	-10	8.04	0.009610	±2.5	PASS
GPRS850	190	NV	0	5.39	0.006443	±2.5	PASS
GPRS850	190	NV	10	3.42	0.004088	±2.5	PASS
GPRS850	190	NV	20	4.42	0.005283	±2.5	PASS
GPRS850	190	NV	30	4.84	0.005785	±2.5	PASS
GPRS850	190	NV	40	1.97	0.002355	±2.5	PASS
GPRS850	190	NV	50	4.23	0.005056	±2.5	PASS
EGPRS850	190	NV	-30	1.03	0.001231	±2.5	PASS
EGPRS850	190	NV	-20	0.58	0.000693	±2.5	PASS
EGPRS850	190	NV	-10	-3.33	-0.003980	±2.5	PASS
EGPRS850	190	NV	0	0.71	0.000849	±2.5	PASS
EGPRS850	190	NV	10	1.00	0.001195	±2.5	PASS
EGPRS850	190	NV	20	-5.13	-0.006132	±2.5	PASS
EGPRS850	190	NV	30	2.87	0.003431	±2.5	PASS
EGPRS850	190	NV	40	-3.78	-0.004518	±2.5	PASS
EGPRS850	190	NV	50	1.68	0.002008	±2.5	PASS
GPRS1900	661	NV	-30	13.59	0.007229	±2.5	PASS
GPRS1900	661	NV	-20	10.43	0.005548	±2.5	PASS
GPRS1900	661	NV	-10	6.97	0.003707	±2.5	PASS
GPRS1900	661	NV	0	6.97	0.003707	±2.5	PASS
GPRS1900	661	NV	10	11.17	0.005941	±2.5	PASS
GPRS1900	661	NV	20	13.20	0.007021	±2.5	PASS
GPRS1900	661	NV	30	8.23	0.004378	±2.5	PASS
GPRS1900	661	NV	40	12.91	0.006867	±2.5	PASS
GPRS1900	661	NV	50	8.14	0.004330	±2.5	PASS
EGPRS1900	661	NV	-30	-11.14	-0.005926	±2.5	PASS
EGPRS1900	661	NV	-20	5.36	0.002851	±2.5	PASS
EGPRS1900	661	NV	-10	-2.32	-0.001234	±2.5	PASS
EGPRS1900	661	NV	0	5.20	0.002766	±2.5	PASS
EGPRS1900	661	NV	10	-6.84	-0.003638	±2.5	PASS
EGPRS1900	661	NV	20	-1.42	-0.000755	±2.5	PASS
EGPRS1900	661	NV	30	3.81	0.002027	±2.5	PASS
EGPRS1900	661	NV	40	0.10	0.000053	±2.5	PASS
EGPRS1900	661	NV	50	2.68	0.001426	±2.5	PASS

APPENDIX B:WCDMA

APPENDIX B1: PEAK-TO-AVERAGE RATIO

Test Result(WCDMA)

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9262	3.04	13	PASS
Band2	9400	3.03	13	PASS
Band2	9538	2.96	13	PASS
Band4	1312	3.15	13	PASS
Band4	1413	3.13	13	PASS
Band4	1513	3.16	13	PASS
Band5	4132	3.12	13	PASS
Band5	4182	3.11	13	PASS
Band5	4233	3.07	13	PASS

Test Result(HSDPA)

Band	Channel	SubTest	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9262	1	3.11	13	PASS
Band2	9400	1	3.09	13	PASS
Band2	9538	1	3.06	13	PASS
Band4	1312	1	3.19	13	PASS
Band4	1413	1	3.17	13	PASS
Band4	1513	1	3.18	13	PASS
Band5	4132	1	3.21	13	PASS
Band5	4182	1	3.21	13	PASS
Band5	4233	1	3.2	13	PASS

Test Result(HSUPA)

Band	Channel	SubTest	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9262	1	4.41	13	PASS
Band2	9400	1	4.33	13	PASS
Band2	9538	1	4.3	13	PASS
Band4	1312	1	4.44	13	PASS
Band4	1413	1	4.48	13	PASS
Band4	1513	1	4.47	13	PASS
Band5	4132	1	4.59	13	PASS
Band5	4182	1	4.6	13	PASS
Band5	4233	1	4.55	13	PASS

Test Graphs(WCDMA)

