

Appendix for GSM850/1900

Product Name: Zenius08

Model No: GMT-08QA-2301

Appendix A: Average Power Output Data

Test Result

Band	Channel	Power(dBm)	Verdict
GSM850	128	32.14	PASS
GSM850	190	33.44	PASS
GSM850	251	32.61	PASS
GSM1900	512	28.42	PASS
GSM1900	661	29.86	PASS
GSM1900	810	29.32	PASS

Band	Channel	Slot	Power(dBm)	Verdict
GPRS850	128	1	32.95	PASS
GPRS850	128	2	29.96	PASS
GPRS850	128	3	29.12	PASS
GPRS850	128	4	27.25	PASS
GPRS850	190	1	33.41	PASS
GPRS850	190	2	31.44	PASS
GPRS850	190	3	29.83	PASS
GPRS850	190	4	28.13	PASS
GPRS850	251	1	32.24	PASS
GPRS850	251	2	30.33	PASS
GPRS850	251	3	29.87	PASS
GPRS850	251	4	26.89	PASS
GPRS1900	512	1	28.35	PASS
GPRS1900	512	2	25.69	PASS
GPRS1900	512	3	24.10	PASS
GPRS1900	512	4	22.93	PASS
GPRS1900	661	1	29.78	PASS
GPRS1900	661	2	27.40	PASS
GPRS1900	661	3	25.54	PASS
GPRS1900	661	4	24.40	PASS
GPRS1900	810	1	29.23	PASS
GPRS1900	810	2	26.88	PASS
GPRS1900	810	3	25.12	PASS
GPRS1900	810	4	23.64	PASS

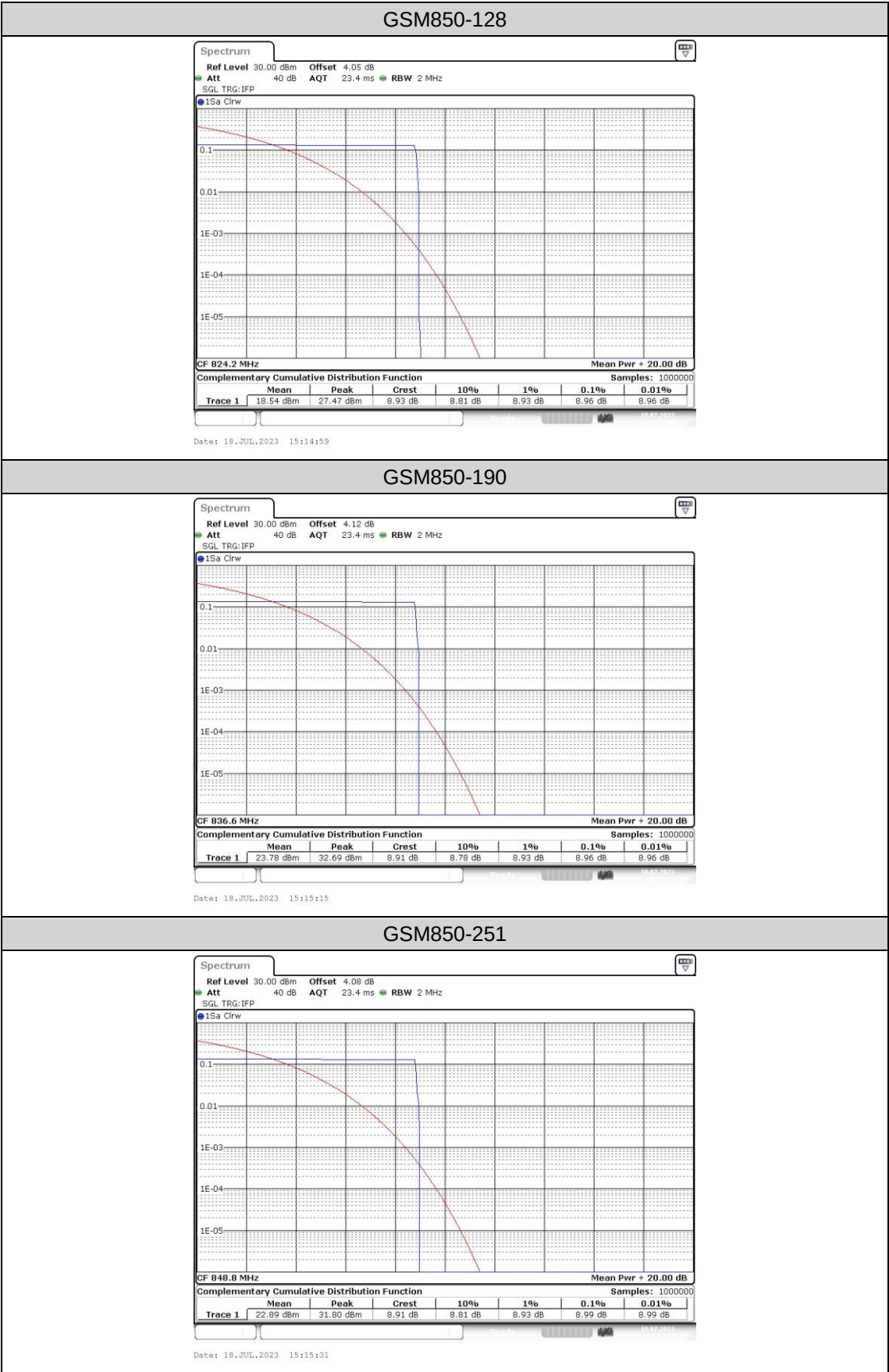
Band	Channel	Slot	Power(dBm)	Verdict
EGPRS850	128	1	26.69	PASS
EGPRS850	128	2	24.92	PASS
EGPRS850	128	3	23.72	PASS
EGPRS850	128	4	22.32	PASS
EGPRS850	190	1	27.23	PASS
EGPRS850	190	2	25.61	PASS
EGPRS850	190	3	24.48	PASS
EGPRS850	190	4	23.06	PASS
EGPRS850	251	1	26.24	PASS
EGPRS850	251	2	24.66	PASS
EGPRS850	251	3	23.42	PASS
EGPRS850	251	4	21.95	PASS
EGPRS1900	512	1	24.41	PASS
EGPRS1900	512	2	22.92	PASS
EGPRS1900	512	3	21.65	PASS
EGPRS1900	512	4	20.19	PASS
EGPRS1900	661	1	25.81	PASS
EGPRS1900	661	2	24.35	PASS
EGPRS1900	661	3	23.23	PASS
EGPRS1900	661	4	21.77	PASS
EGPRS1900	810	1	25.31	PASS
EGPRS1900	810	2	24.04	PASS
EGPRS1900	810	3	22.69	PASS
EGPRS1900	810	4	21.26	PASS

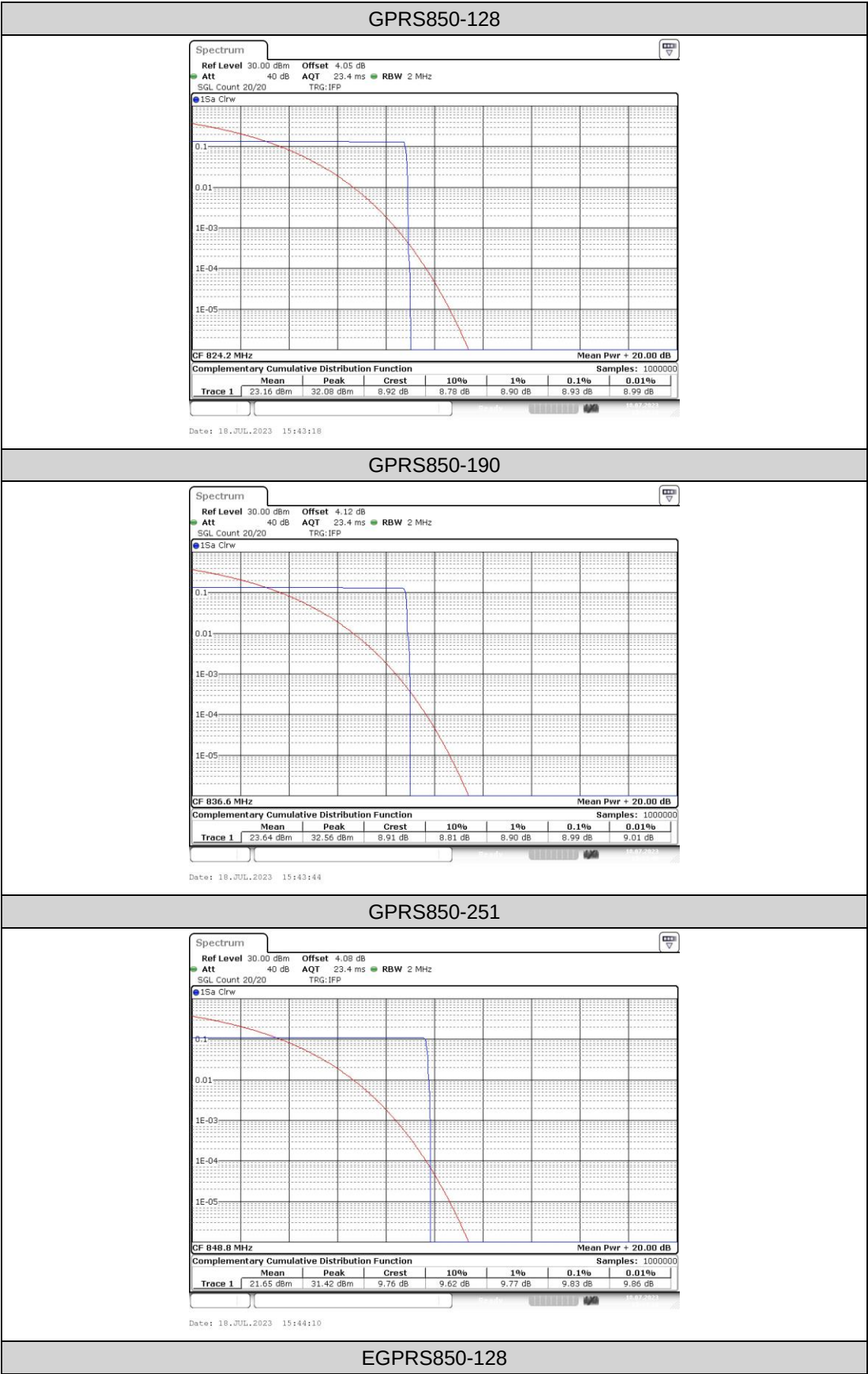
Appendix B: Peak-to-Average Ratio(CCDF)

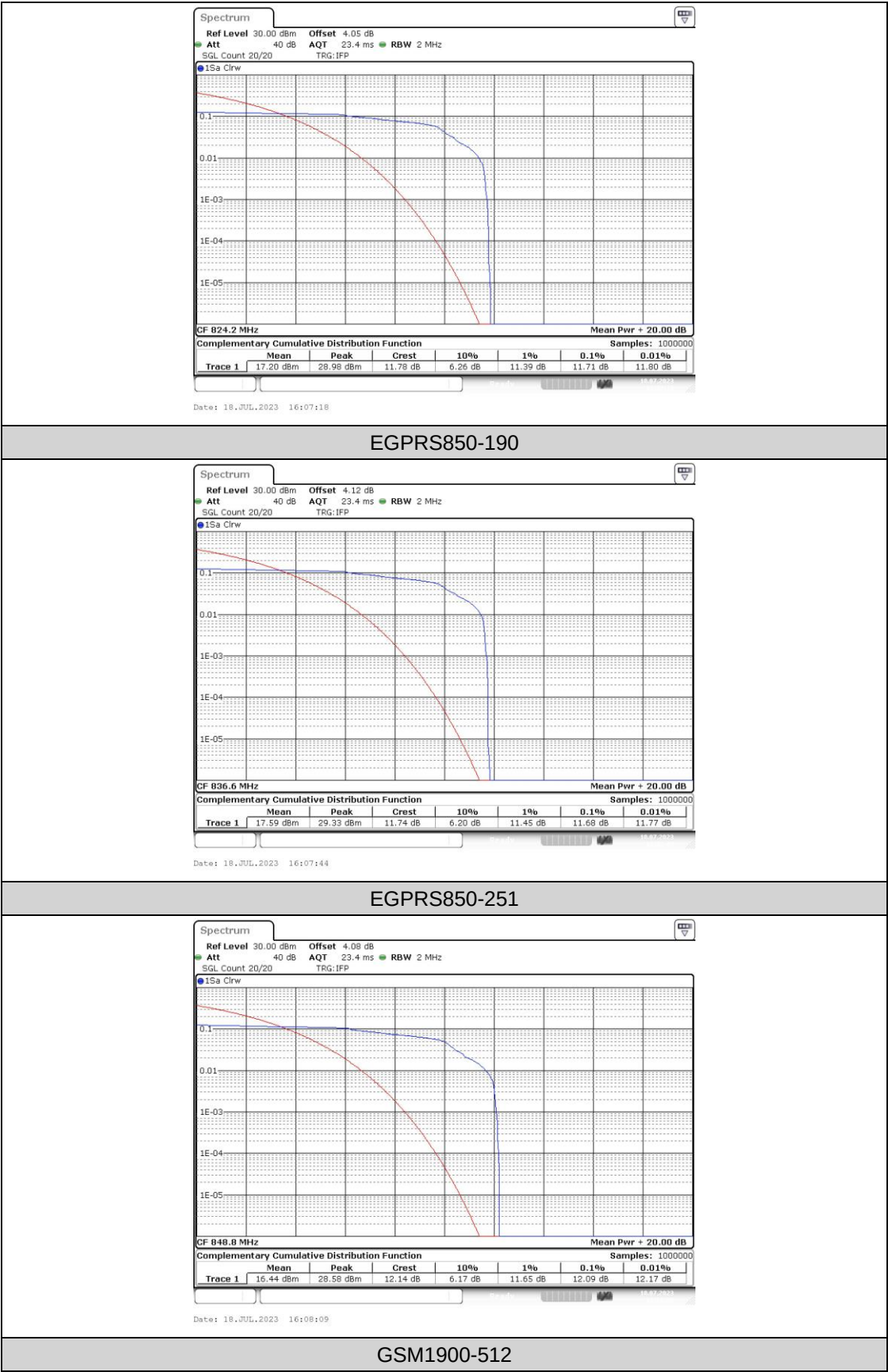
Test Result

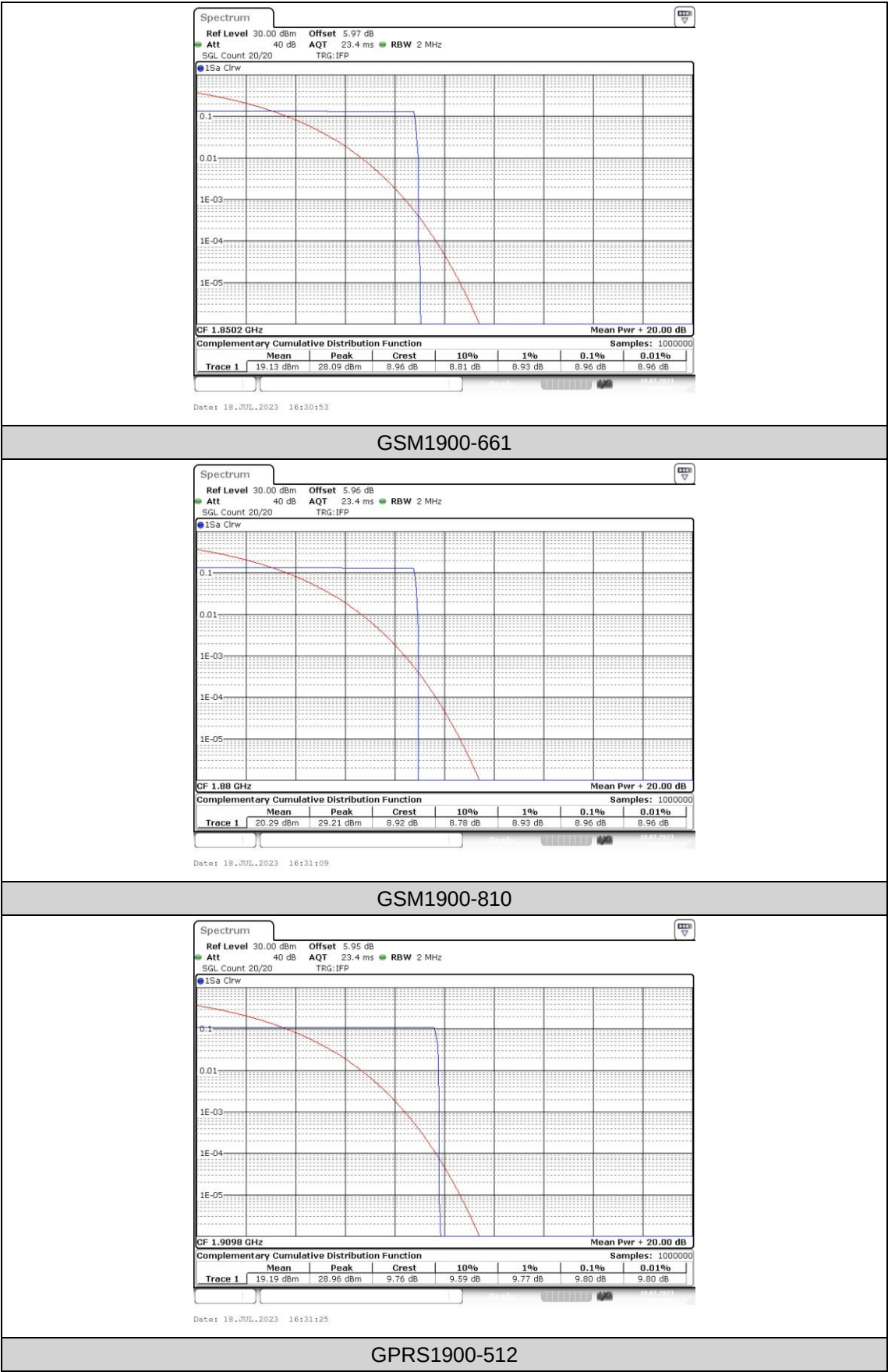
Band	Channel	Result(dB)	Limit(dB)	Verdict
GSM850	128	8.96	13	PASS
GSM850	190	8.96	13	PASS
GSM850	251	8.99	13	PASS
GPRS850	128	8.93	13	PASS
GPRS850	190	8.99	13	PASS
GPRS850	251	9.83	13	PASS
EGPRS850	128	11.71	13	PASS
EGPRS850	190	11.68	13	PASS
EGPRS850	251	12.09	13	PASS
GSM1900	512	8.96	13	PASS
GSM1900	661	8.96	13	PASS
GSM1900	810	9.8	13	PASS
GPRS1900	512	9.77	13	PASS
GPRS1900	661	8.9	13	PASS
GPRS1900	810	8.9	13	PASS
EGPRS1900	512	12.75	13	PASS
EGPRS1900	661	12.49	13	PASS
EGPRS1900	810	11.74	13	PASS

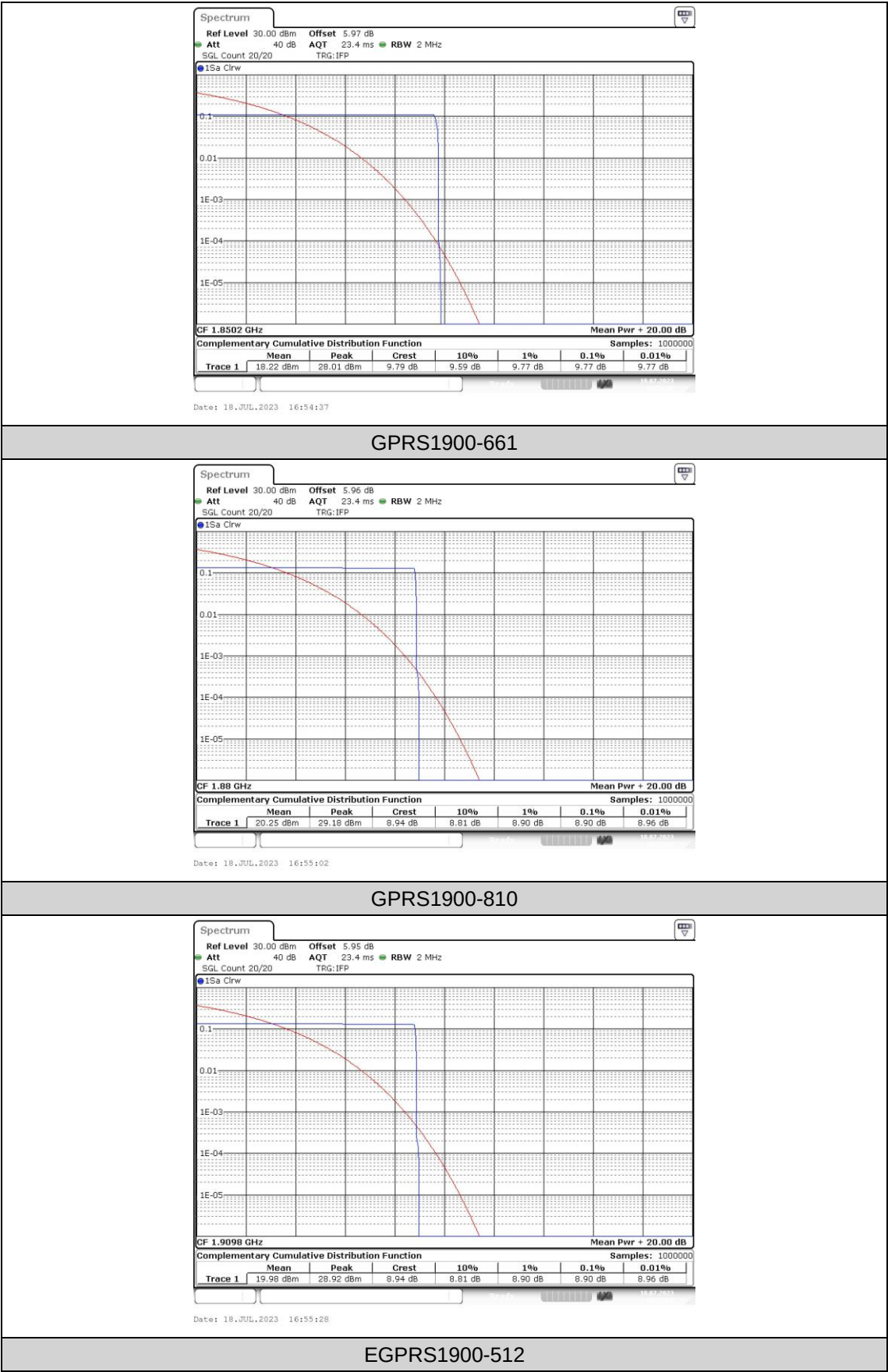
Test Graphs

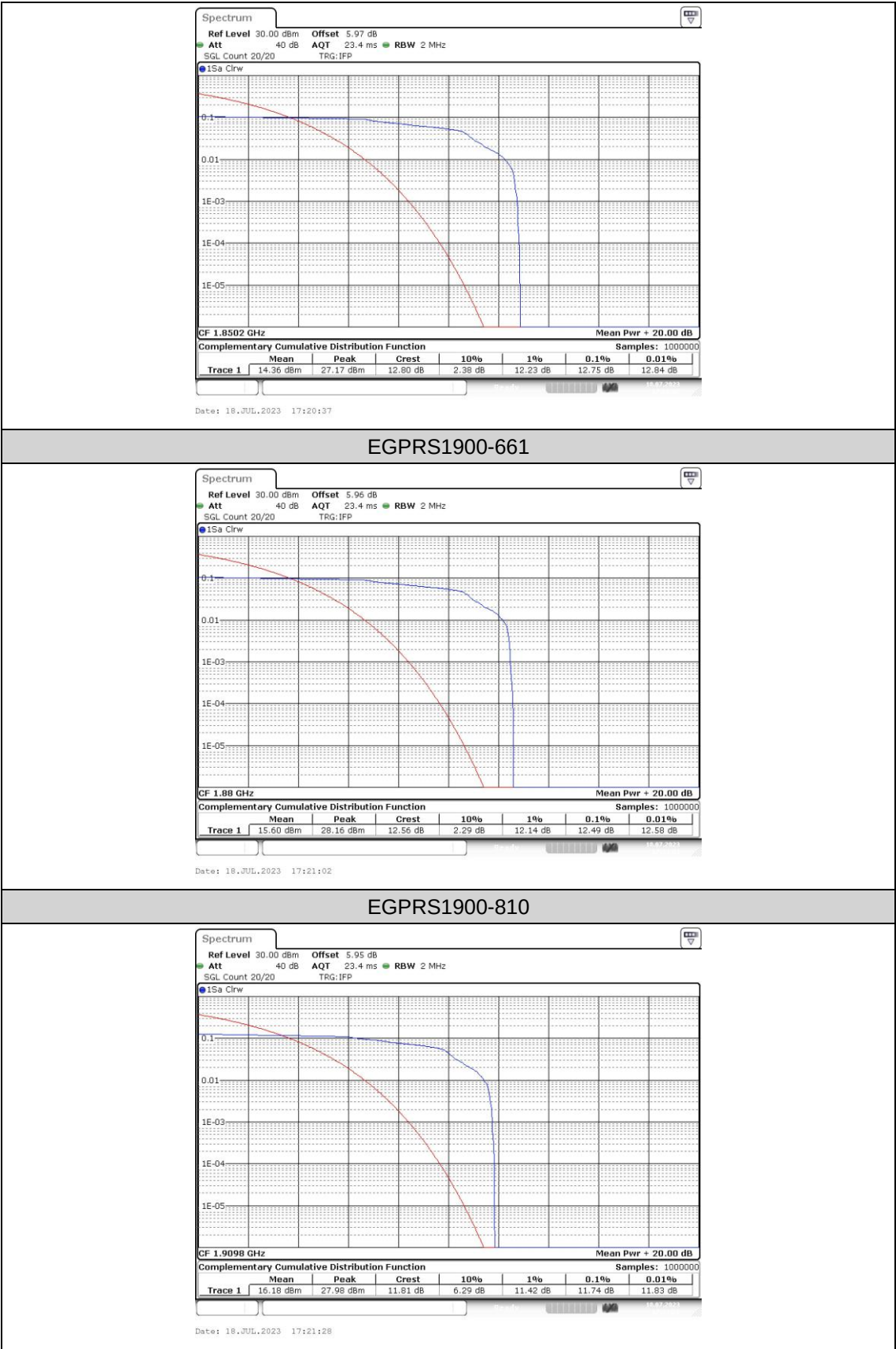










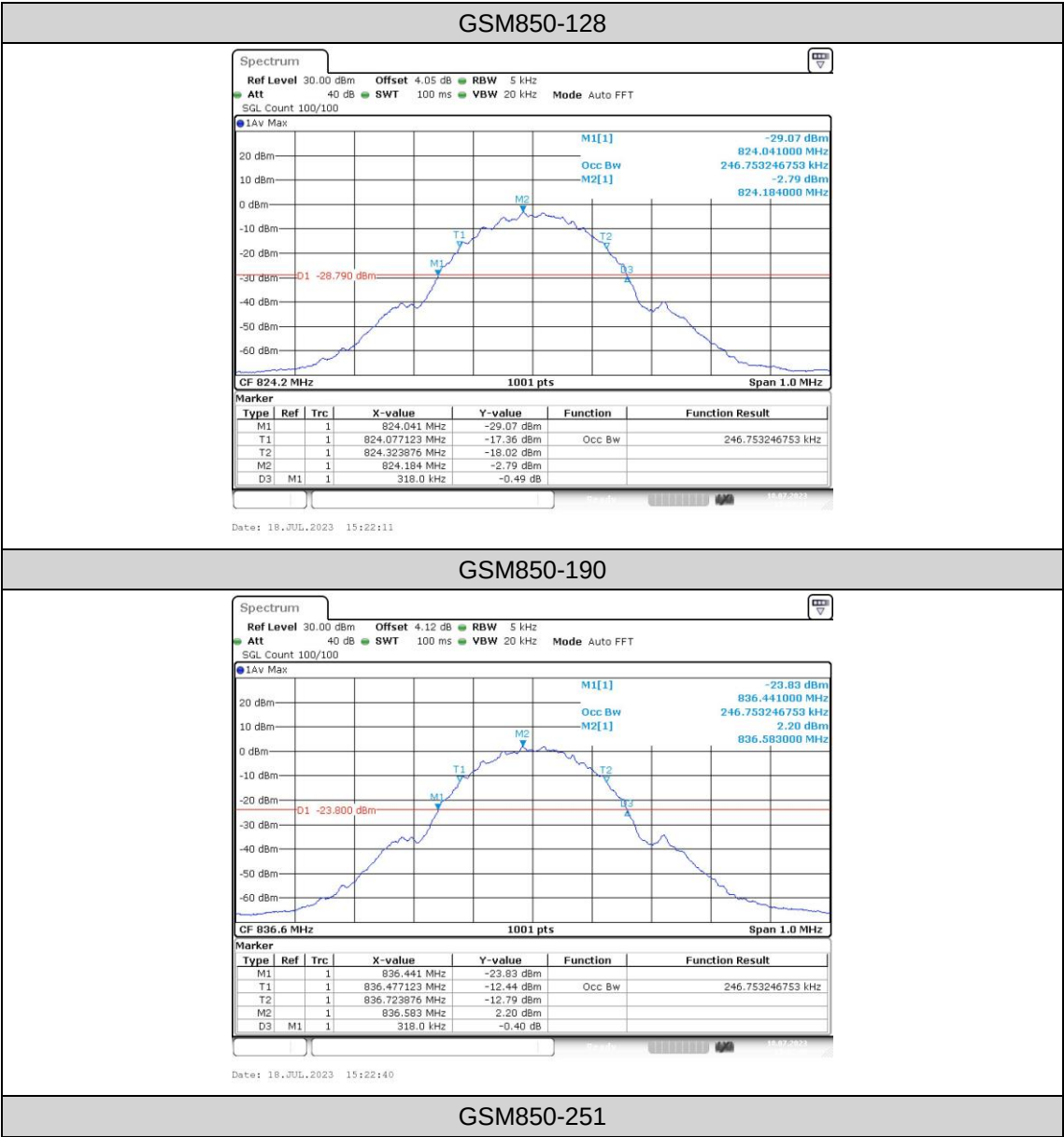


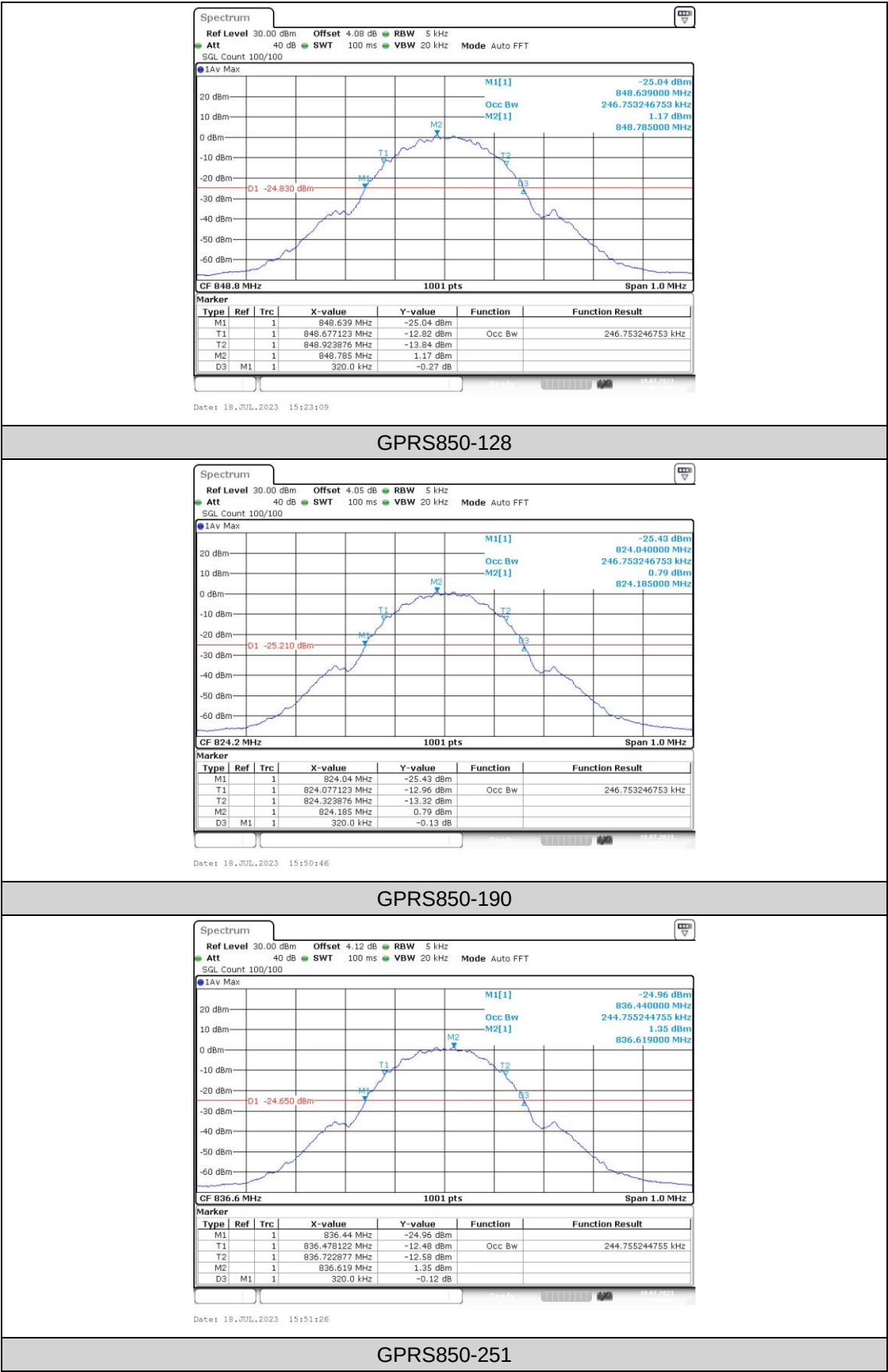
Appendix C: 26dB Bandwidth and Occupied Bandwidth

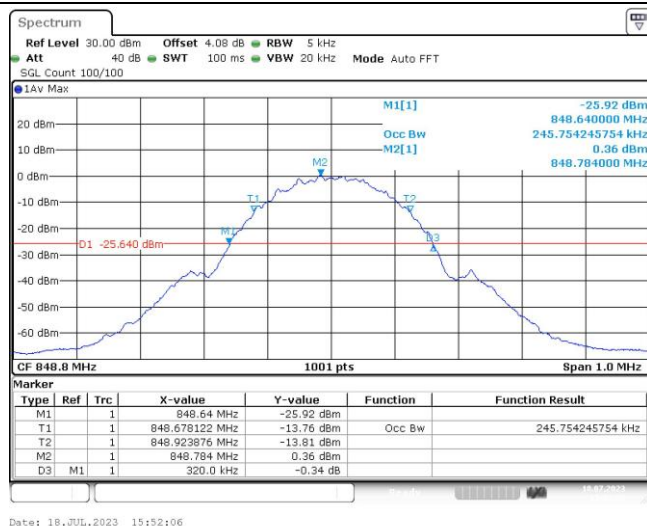
Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	0.247	0.32	---	PASS
GSM850	190	0.247	0.32	---	PASS
GSM850	251	0.247	0.32	---	PASS
GPRS850	128	0.247	0.32	---	PASS
GPRS850	190	0.245	0.32	---	PASS
GPRS850	251	0.246	0.32	---	PASS
EGPRS850	128	0.242	0.31	---	PASS
EGPRS850	190	0.244	0.31	---	PASS
EGPRS850	251	0.242	0.31	---	PASS
GSM1900	512	0.243	0.31	---	PASS
GSM1900	661	0.244	0.31	---	PASS
GSM1900	810	0.244	0.31	---	PASS
GPRS1900	512	0.244	0.32	---	PASS
GPRS1900	661	0.245	0.32	---	PASS
GPRS1900	810	0.243	0.32	---	PASS
EGPRS1900	512	0.241	0.32	---	PASS
EGPRS1900	661	0.245	0.32	---	PASS
EGPRS1900	810	0.243	0.32	---	PASS

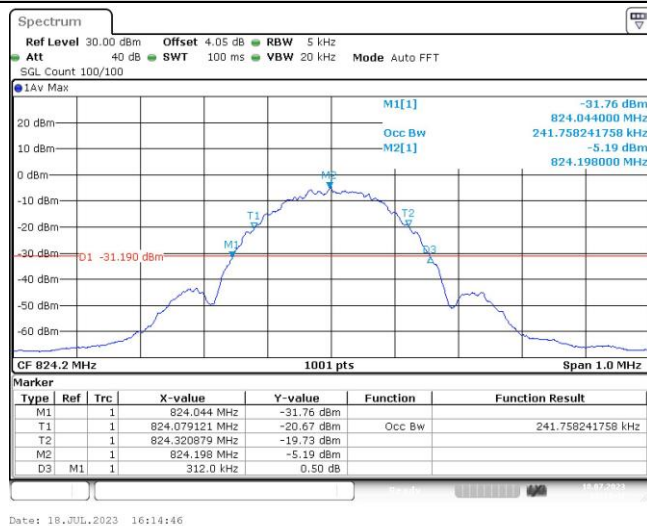
Test Graphs



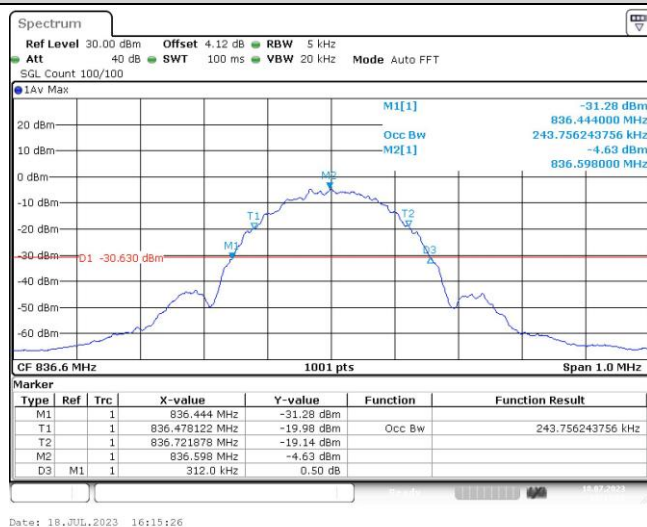




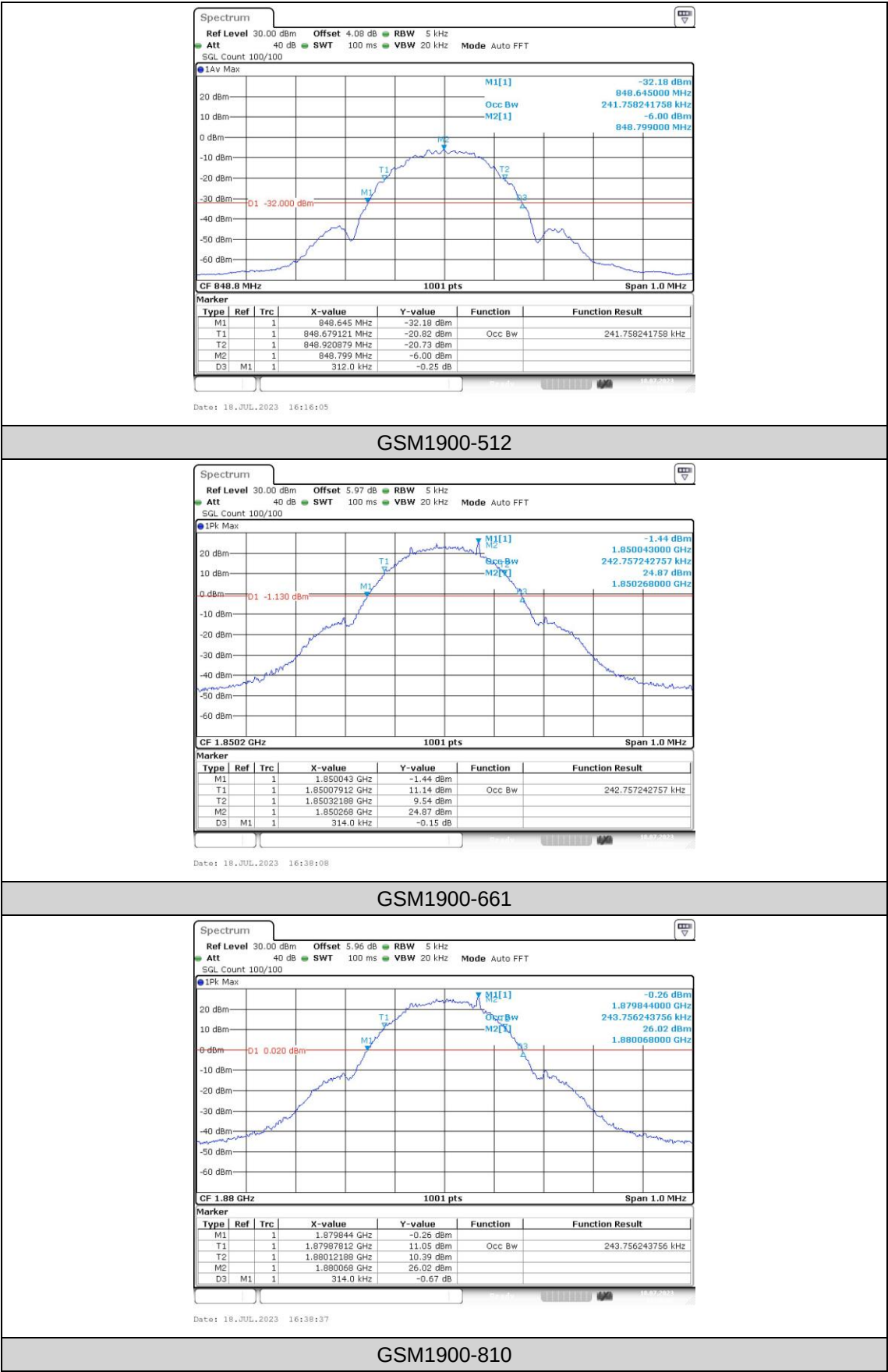
EGPRS850-128



EGPRS850-190

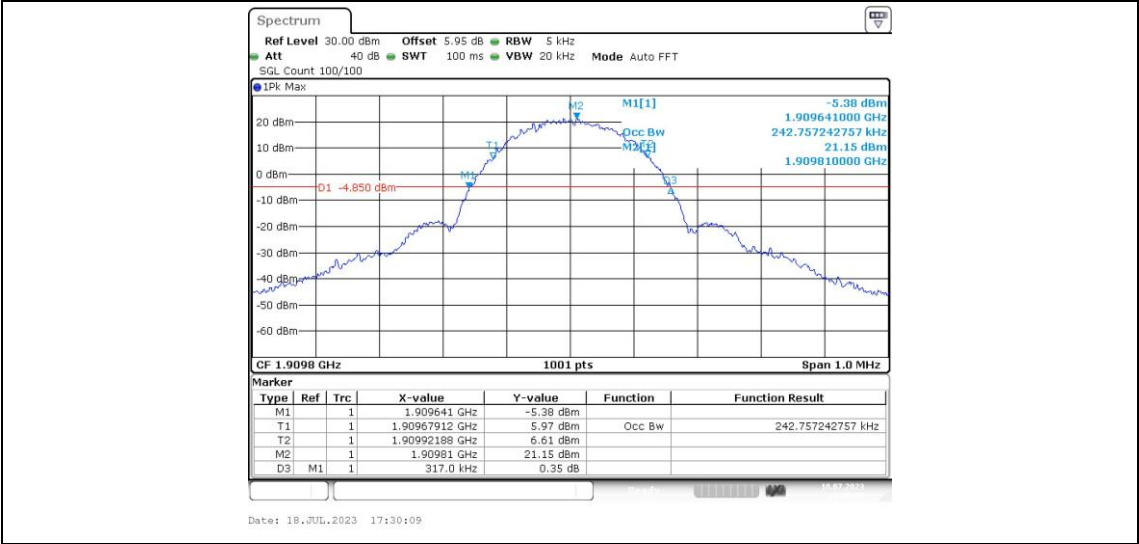


EGPRS850-251







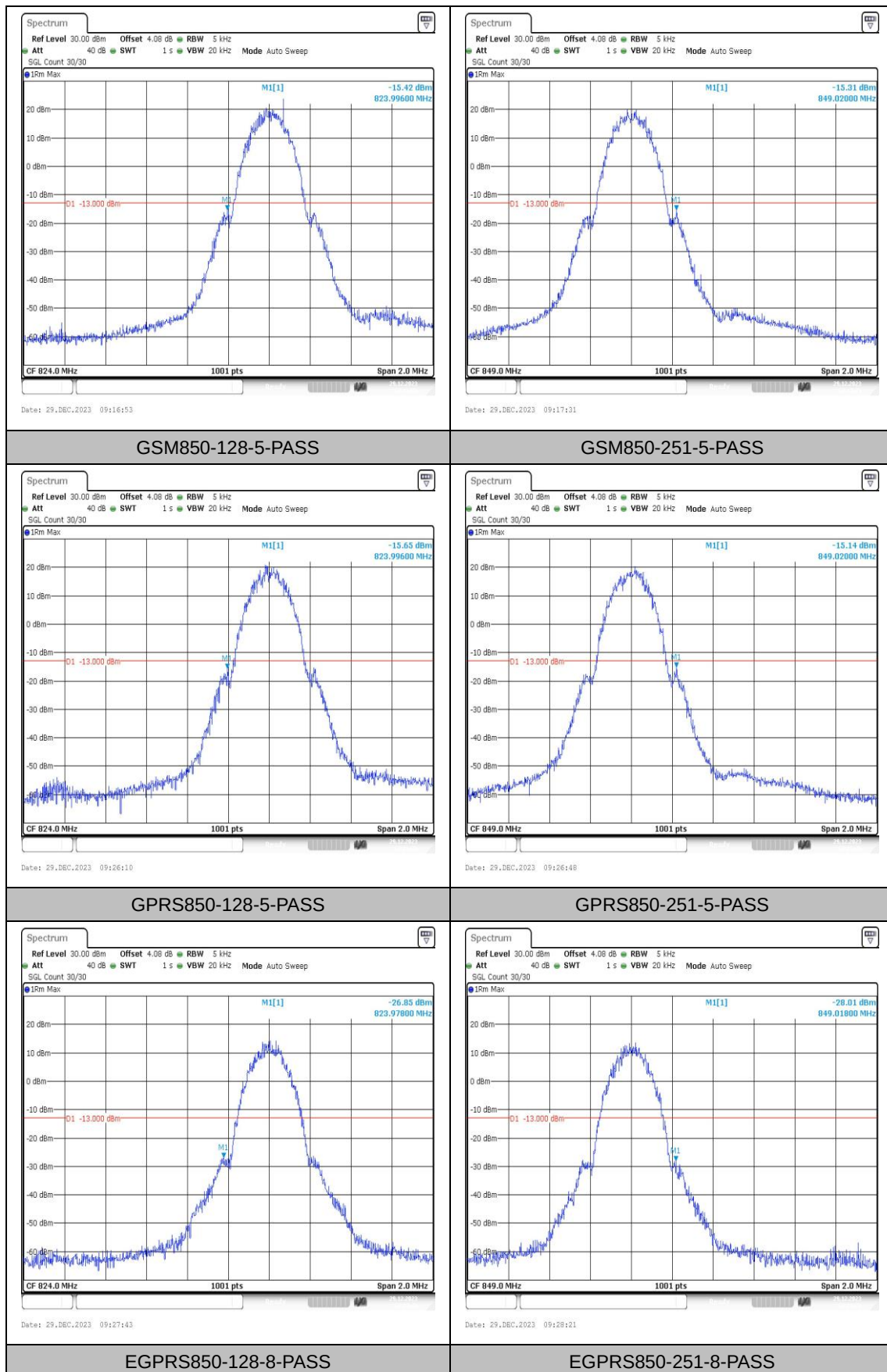


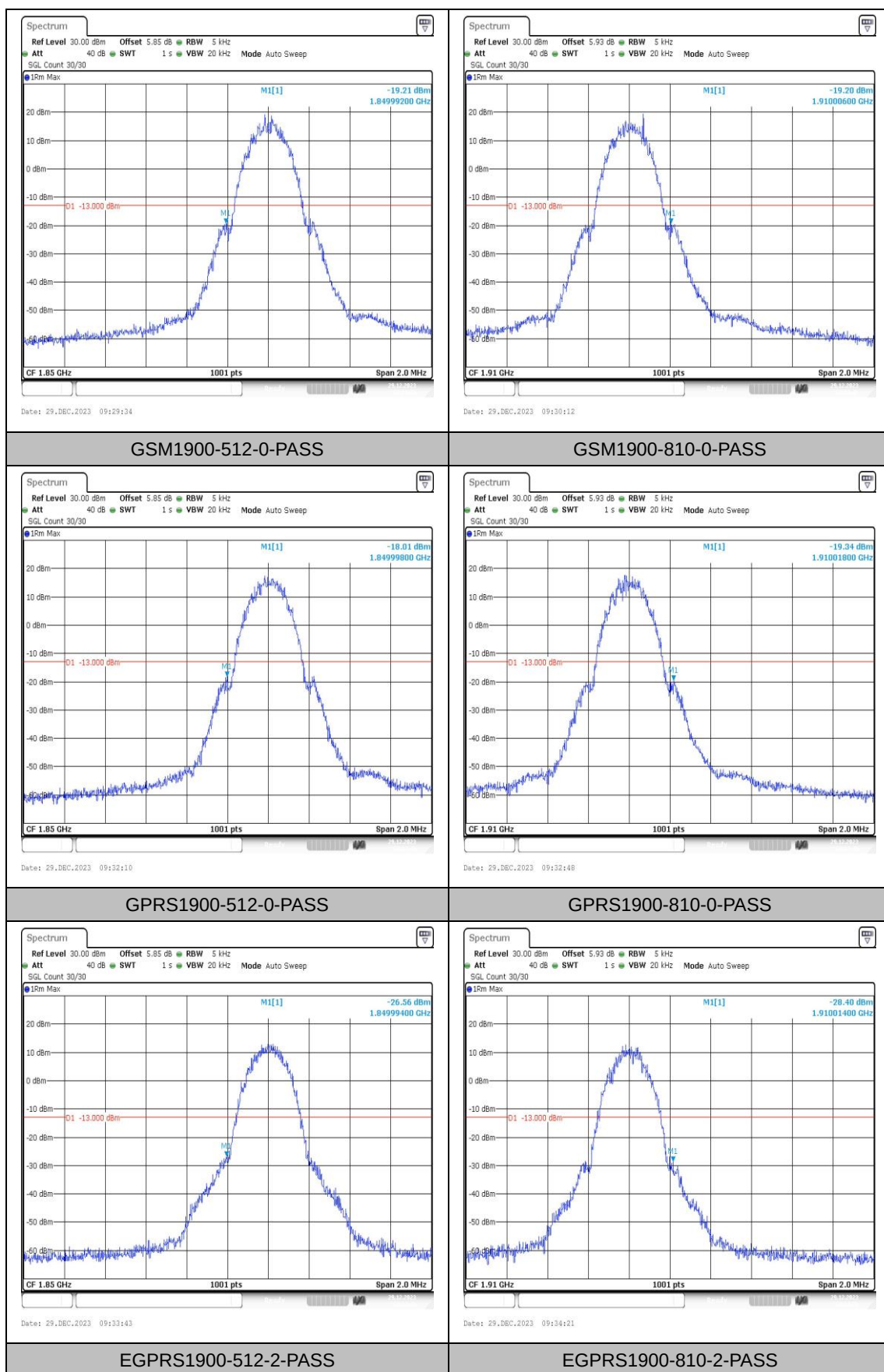
Appendix D: Band Edge

Test Result

Band	Channel	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	824.00	-15.42	-13	PASS
GSM850	251	849.02	-15.31	-13	PASS
GPRS850	128	824.00	-15.65	-13	PASS
GPRS850	251	849.02	-15.14	-13	PASS
EGPRS850	128	823.98	-26.85	-13	PASS
EGPRS850	251	849.02	-28.01	-13	PASS
GSM1900	512	1849.99	-19.21	-13	PASS
GSM1900	810	1910.01	-19.20	-13	PASS
GPRS1900	512	1850.00	-18.01	-13	PASS
GPRS1900	810	1910.02	-19.34	-13	PASS
EGPRS1900	512	1849.99	-26.56	-13	PASS
EGPRS1900	810	1910.01	-28.40	-13	PASS

Test Graphs





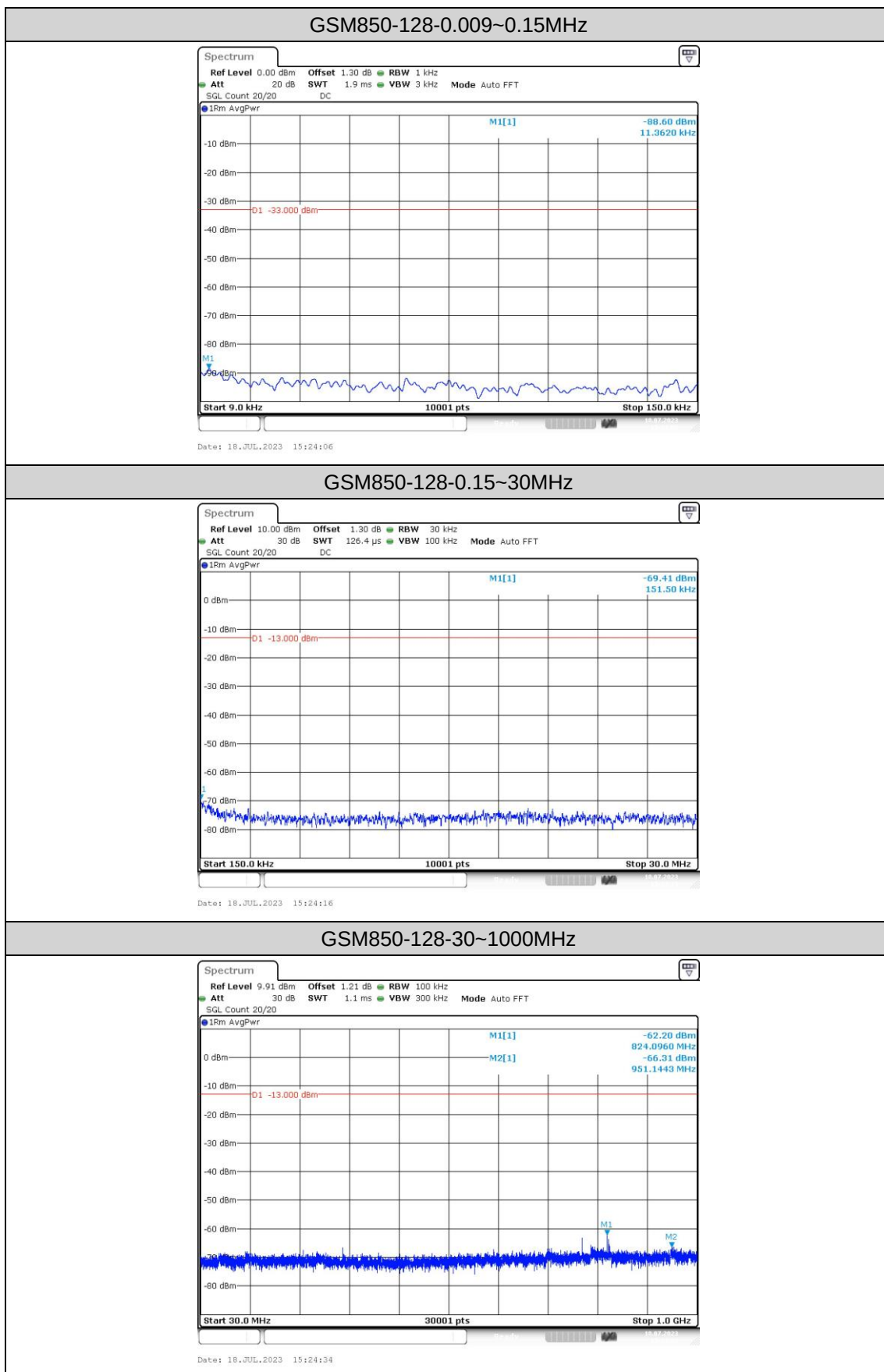
Appendix E: Conducted Spurious Emission

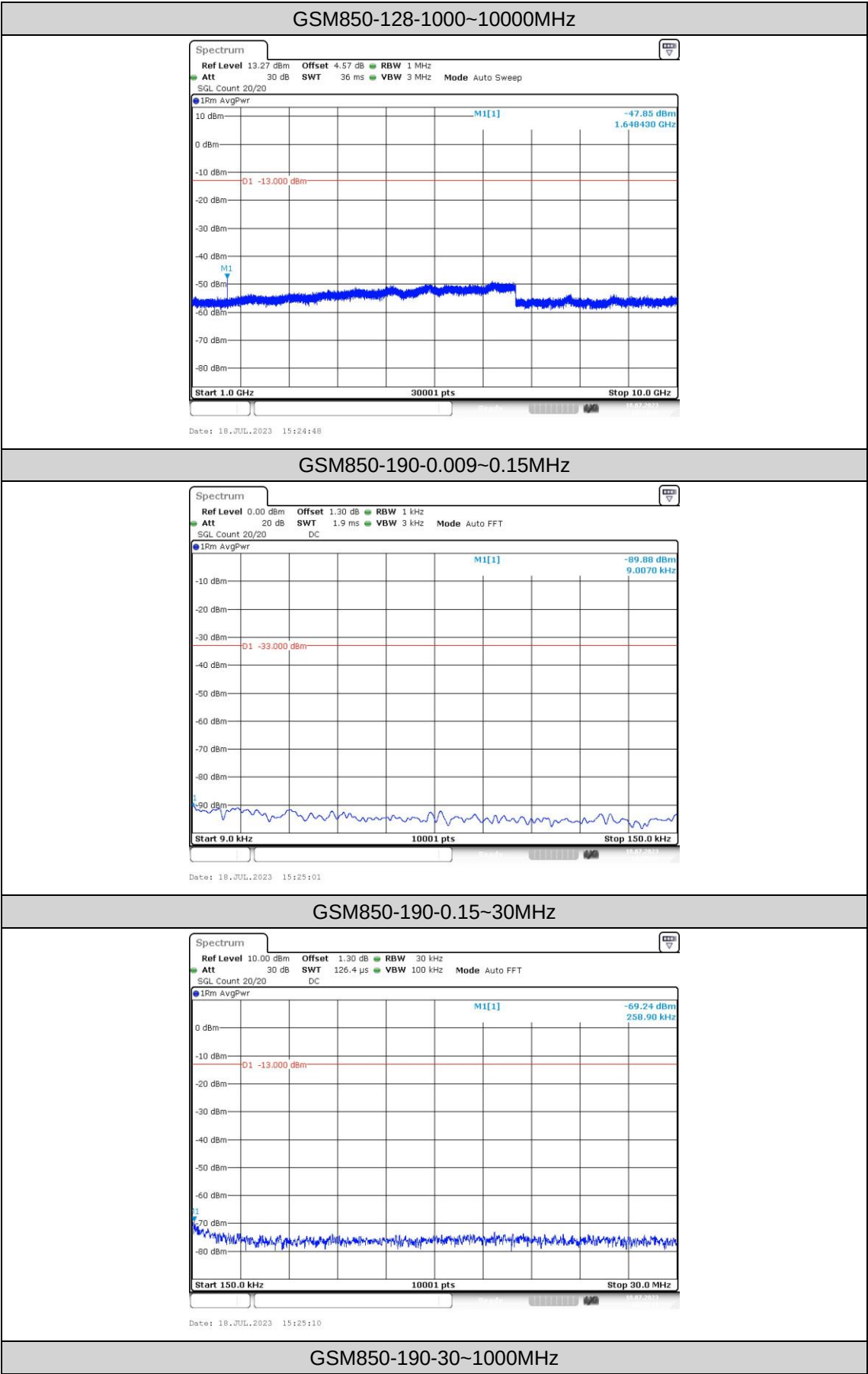
Test Result

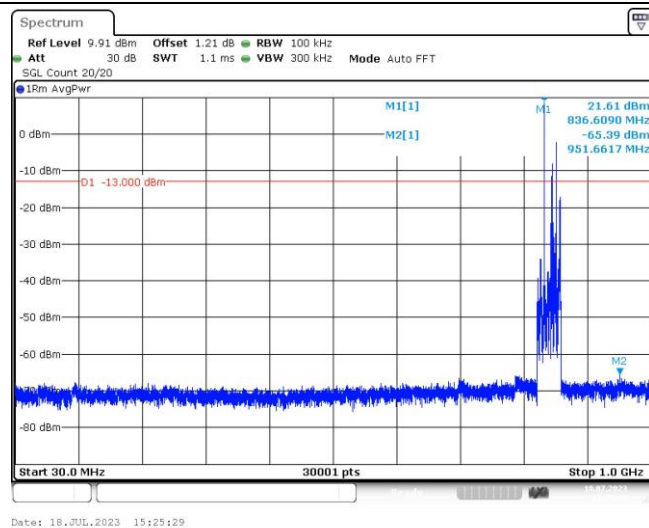
Band	Channel	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	0.009~0.15MHz	0.01	-88.6	-33	PASS
GSM850	128	0.15~30MHz	0.15	-69.41	-13	PASS
GSM850	128	30~1000MHz	951.14	-66.31	-13	PASS
GSM850	128	1000~10000MHz	1648.43	-47.85	-13	PASS
GSM850	190	0.009~0.15MHz	0.01	-89.88	-33	PASS
GSM850	190	0.15~30MHz	0.26	-69.24	-13	PASS
GSM850	190	30~1000MHz	951.66	-65.39	-13	PASS
GSM850	190	1000~10000MHz	1673.33	-36.59	-13	PASS
GSM850	251	0.009~0.15MHz	0.01	-89.01	-33	PASS
GSM850	251	0.15~30MHz	0.15	-70.1	-13	PASS
GSM850	251	30~1000MHz	710.91	-66.46	-13	PASS
GSM850	251	1000~10000MHz	2546.6	-38.34	-13	PASS
GPRS850	128	0.009~0.15MHz	0.01	-88.9	-33	PASS
GPRS850	128	0.15~30MHz	0.2	-70.23	-13	PASS
GPRS850	128	30~1000MHz	260.34	-65.39	-13	PASS
GPRS850	128	1000~10000MHz	2472.5	-38.39	-13	PASS
GPRS850	190	0.009~0.15MHz	0.01	-90.38	-33	PASS
GPRS850	190	0.15~30MHz	0.17	-68.39	-13	PASS
GPRS850	190	30~1000MHz	707.9	-66.37	-13	PASS
GPRS850	190	1000~10000MHz	2510	-38.66	-13	PASS
GPRS850	251	0.009~0.15MHz	0.01	-90.42	-33	PASS
GPRS850	251	0.15~30MHz	0.15	-68.95	-13	PASS
GPRS850	251	30~1000MHz	727.75	-66.72	-13	PASS
GPRS850	251	1000~10000MHz	2546.6	-37.29	-13	PASS
EGPRS850	128	0.009~0.15MHz	0.01	-89.49	-33	PASS
EGPRS850	128	0.15~30MHz	0.15	-69.22	-13	PASS
EGPRS850	128	30~1000MHz	948.82	-66.11	-13	PASS
EGPRS850	128	1000~10000MHz	6642.66	-48.69	-13	PASS
EGPRS850	190	0.009~0.15MHz	0.01	-89.62	-33	PASS
EGPRS850	190	0.15~30MHz	0.17	-69.94	-13	PASS
EGPRS850	190	30~1000MHz	711.13	-66.19	-13	PASS
EGPRS850	190	1000~10000MHz	1673.33	-46.48	-13	PASS
EGPRS850	251	0.009~0.15MHz	0.01	-90.03	-33	PASS
EGPRS850	251	0.15~30MHz	0.16	-68.68	-13	PASS
EGPRS850	251	30~1000MHz	950.11	-66.59	-13	PASS
EGPRS850	251	1000~10000MHz	2546.6	-48.87	-13	PASS

GSM1900	512	0.009~0.15MHz	0.01	-56.44	-43	PASS
GSM1900	512	0.15~30MHz	0.15	-68.16	-23	PASS
GSM1900	512	30~1000MHz	958.34	-57.2	-13	PASS
GSM1900	512	1000~18000MHz	3700.17	-44.99	-13	PASS
GSM1900	661	0.009~0.15MHz	0.01	-53.1	-43	PASS
GSM1900	661	0.15~30MHz	0.18	-69.81	-23	PASS
GSM1900	661	30~1000MHz	889.15	-56.97	-13	PASS
GSM1900	661	1000~18000MHz	3760.23	-39.57	-13	PASS
GSM1900	810	0.009~0.15MHz	0.01	-50.37	-43	PASS
GSM1900	810	0.15~30MHz	0.25	-69.94	-23	PASS
GSM1900	810	30~1000MHz	892.45	-56.32	-13	PASS
GSM1900	810	1000~18000MHz	3819.73	-39.21	-13	PASS
GPRS1900	512	0.009~0.15MHz	0.01	-56.91	-43	PASS
GPRS1900	512	0.15~30MHz	0.15	-70.55	-23	PASS
GPRS1900	512	30~1000MHz	891.48	-56.11	-13	PASS
GPRS1900	512	1000~18000MHz	3700.17	-42.45	-13	PASS
GPRS1900	661	0.009~0.15MHz	0.01	-51.25	-43	PASS
GPRS1900	661	0.15~30MHz	0.15	-70.21	-23	PASS
GPRS1900	661	30~1000MHz	932.28	-57.12	-13	PASS
GPRS1900	661	1000~18000MHz	3760.23	-39.28	-13	PASS
GPRS1900	810	0.009~0.15MHz	0.01	-55.97	-43	PASS
GPRS1900	810	0.15~30MHz	0.16	-69.36	-23	PASS
GPRS1900	810	30~1000MHz	864.84	-57.35	-13	PASS
GPRS1900	810	1000~18000MHz	3819.73	-43.12	-13	PASS
EGPRS1900	512	0.009~0.15MHz	0.02	-77.65	-43	PASS
EGPRS1900	512	0.15~30MHz	0.16	-68.54	-23	PASS
EGPRS1900	512	30~1000MHz	861.93	-56.94	-13	PASS
EGPRS1900	512	1000~18000MHz	3700.17	-44.57	-13	PASS
EGPRS1900	661	0.009~0.15MHz	0.01	-54.2	-43	PASS
EGPRS1900	661	0.15~30MHz	0.15	-67.75	-23	PASS
EGPRS1900	661	30~1000MHz	551.24	-57.53	-13	PASS
EGPRS1900	661	1000~18000MHz	3760.23	-42.79	-13	PASS
EGPRS1900	810	0.009~0.15MHz	0.05	-56.66	-43	PASS
EGPRS1900	810	0.15~30MHz	0.15	-69.47	-23	PASS
EGPRS1900	810	30~1000MHz	958.41	-57.29	-13	PASS
EGPRS1900	810	1000~18000MHz	3819.17	-43.94	-13	PASS

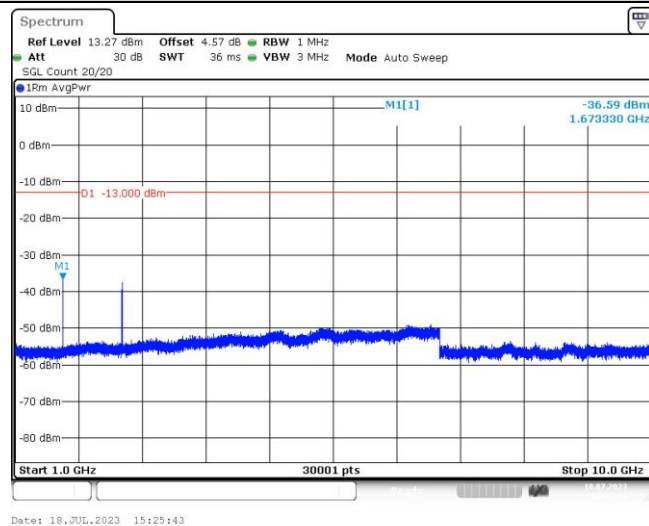
Test Graphs



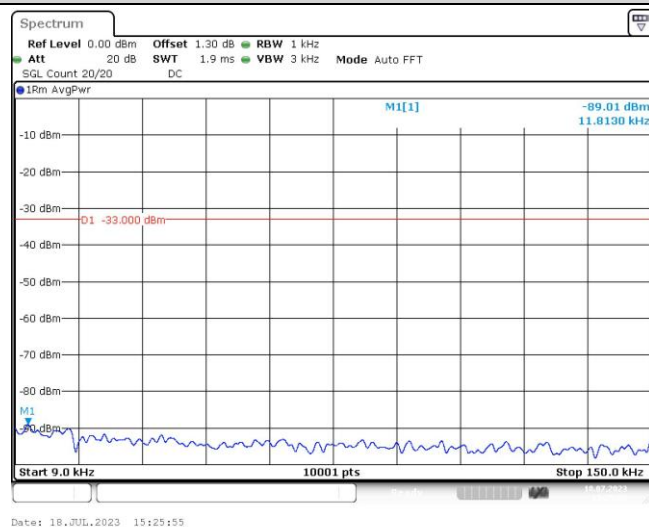




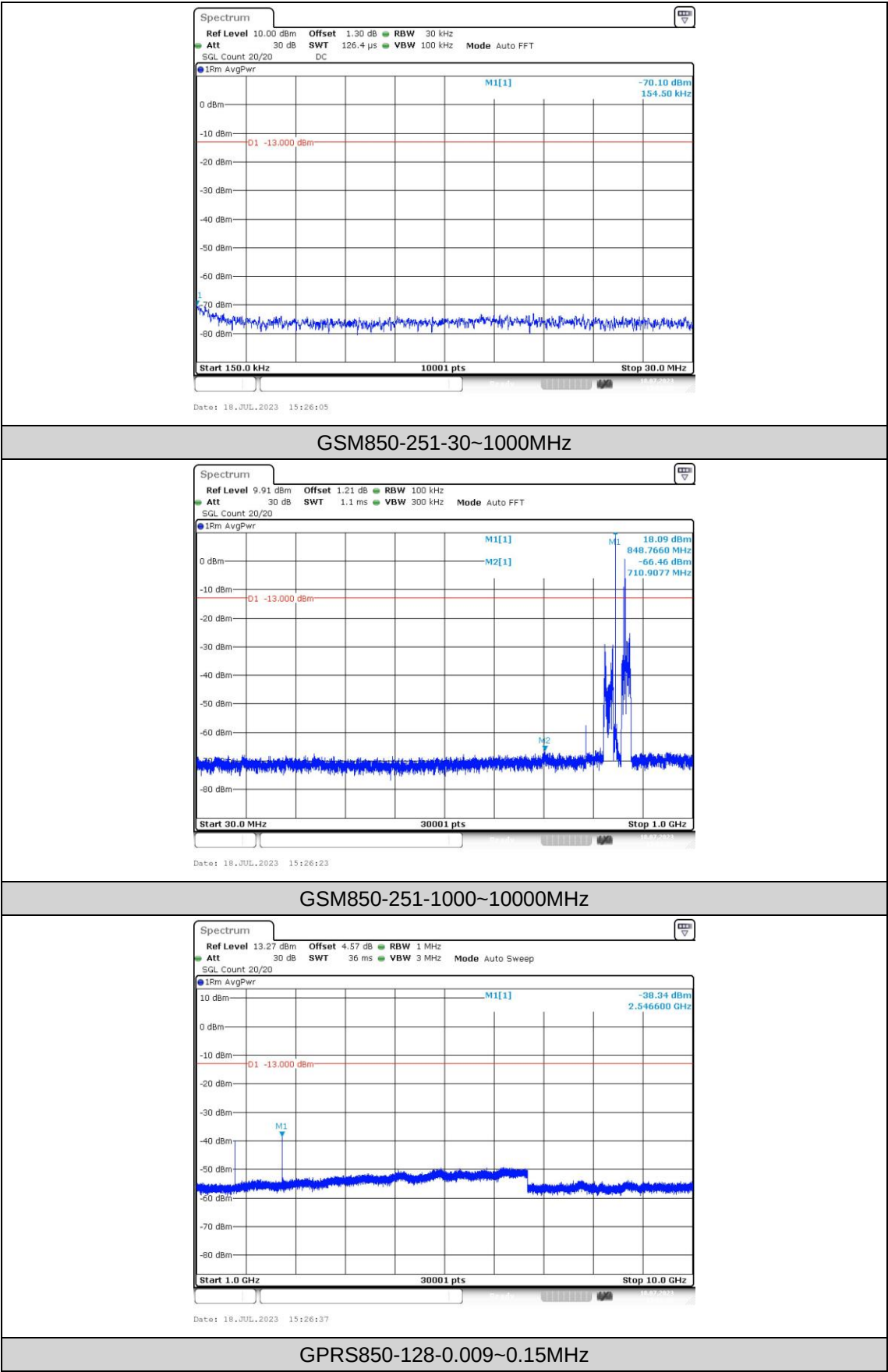
GSM850-190-1000~10000MHz

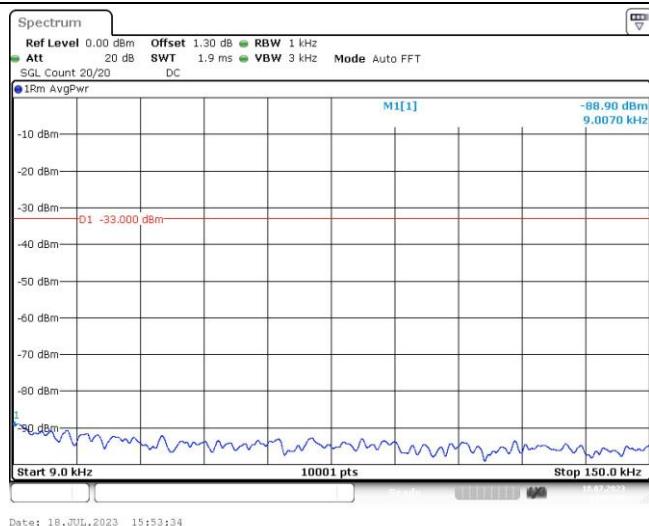


GSM850-251-0.009~0.15MHz

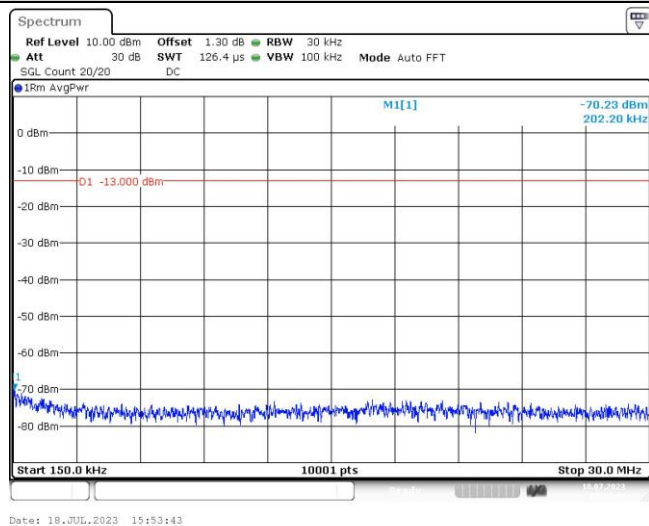


GSM850-251-0.15~30MHz

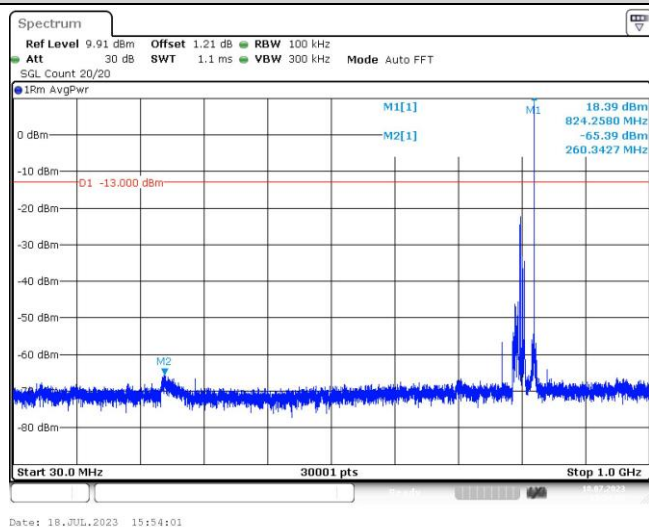




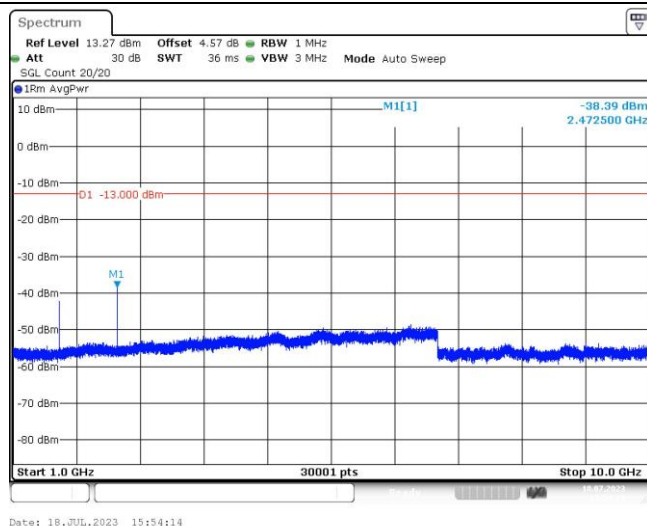
GPRS850-128-0.15~30MHz



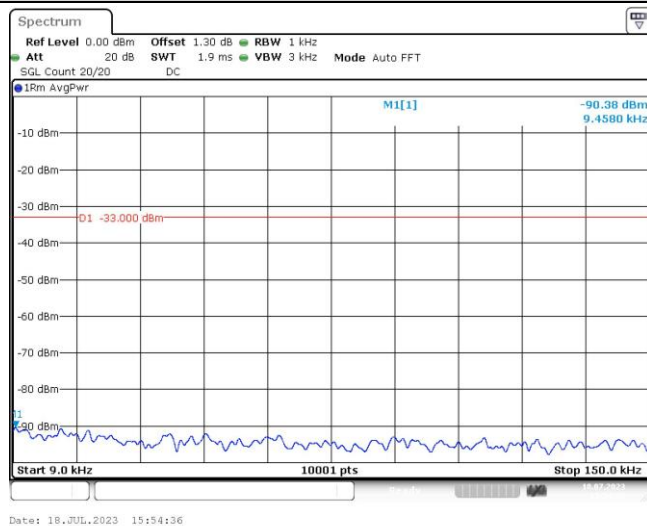
GPRS850-128-30~1000MHz



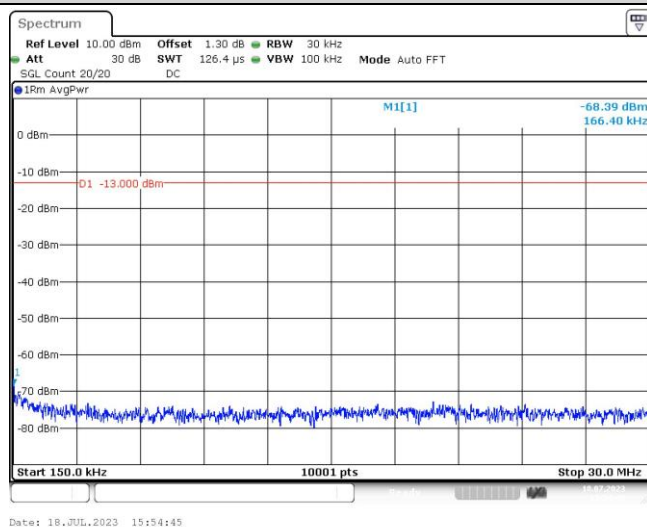
GPRS850-128-1000~10000MHz



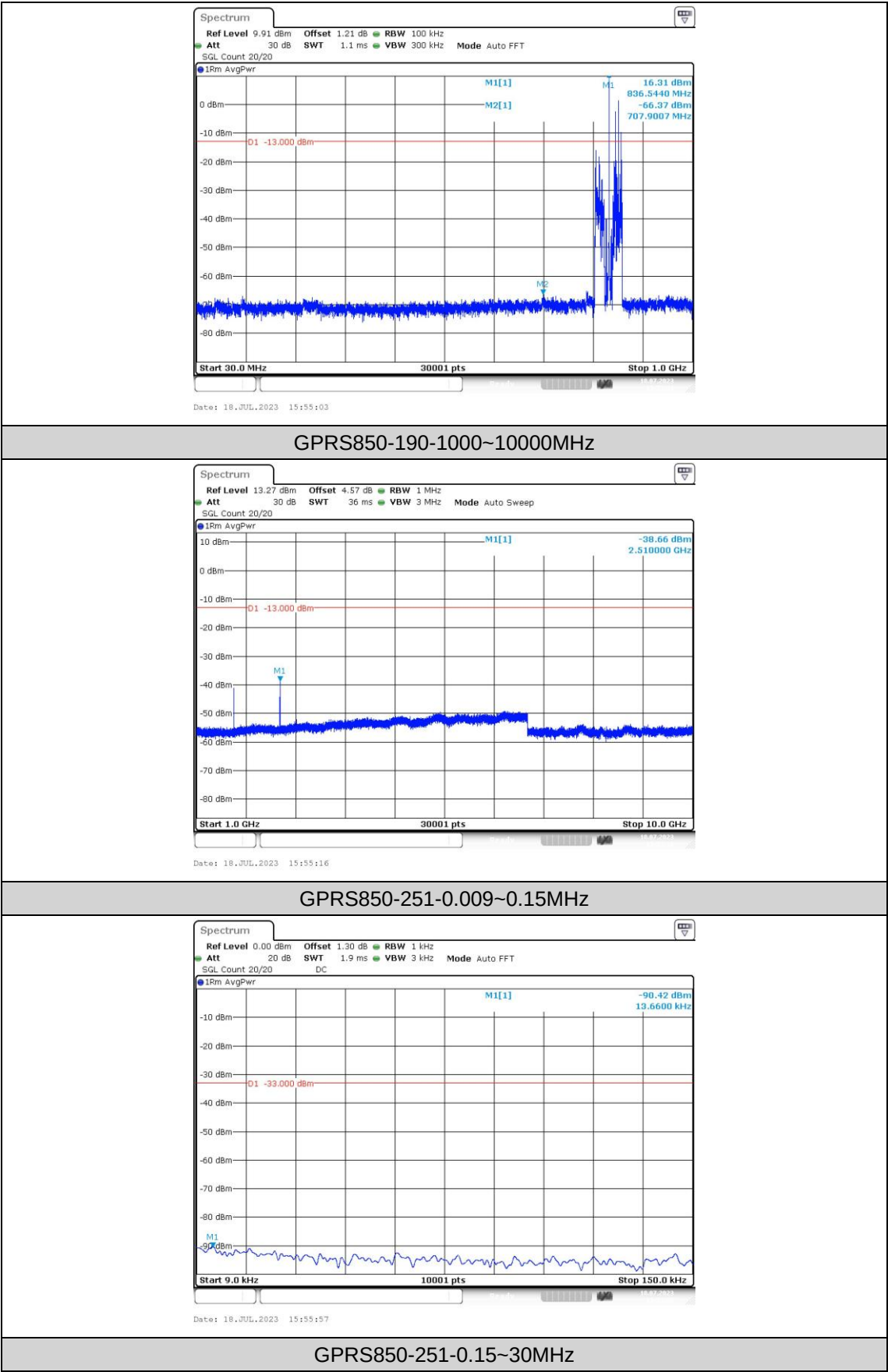
GPRS850-190-0.009~0.15MHz

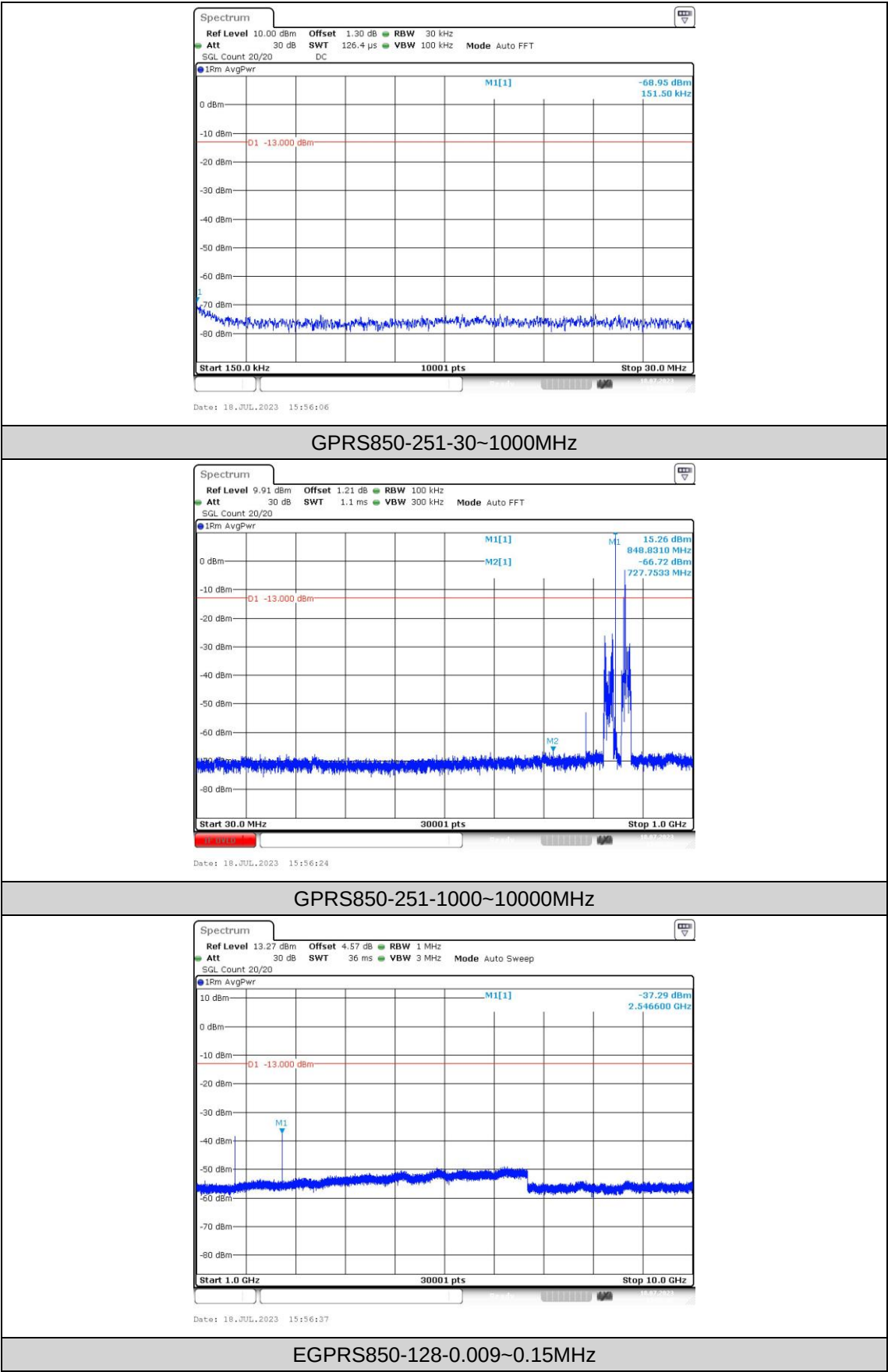


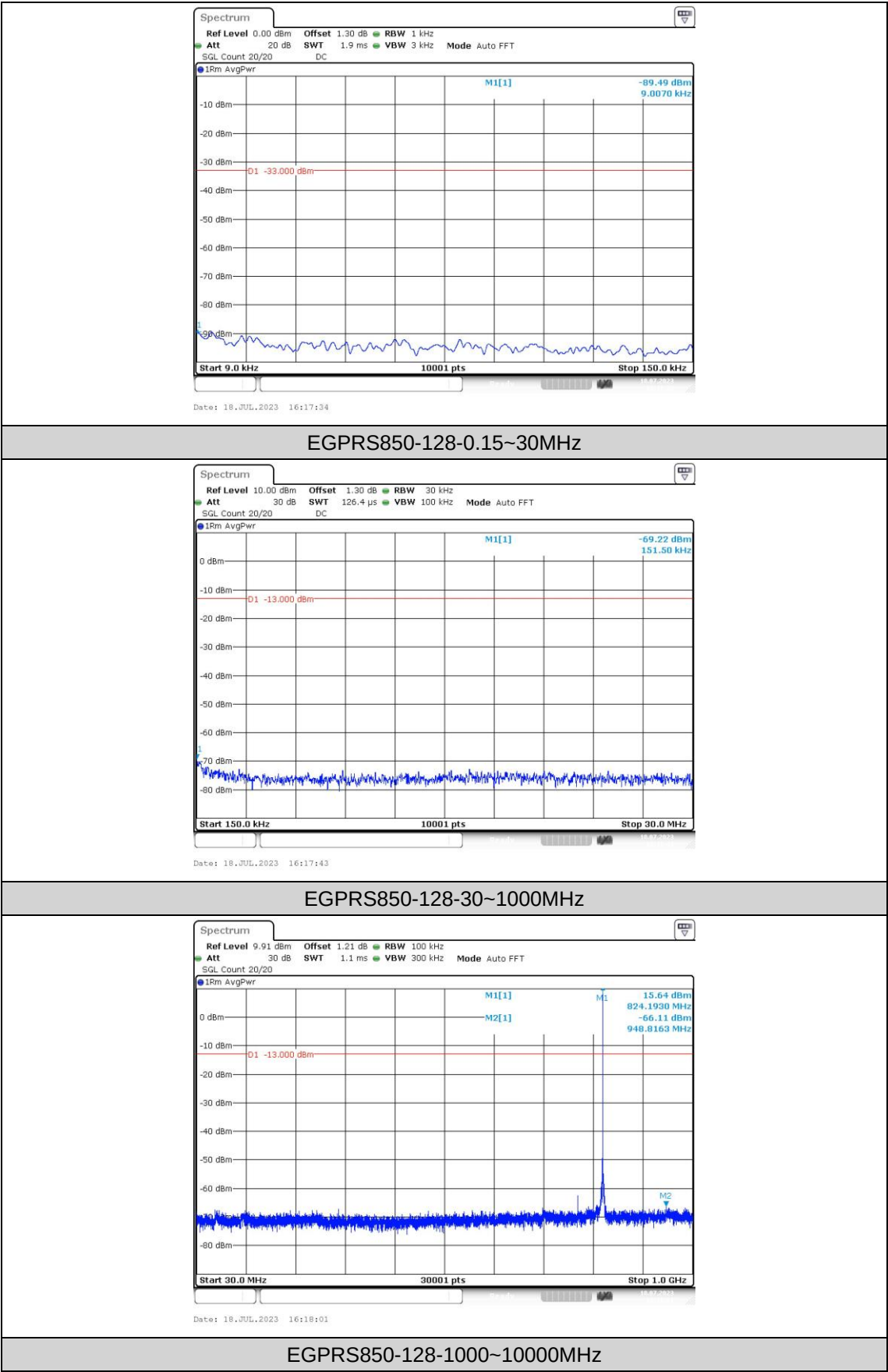
GPRS850-190-0.15~30MHz

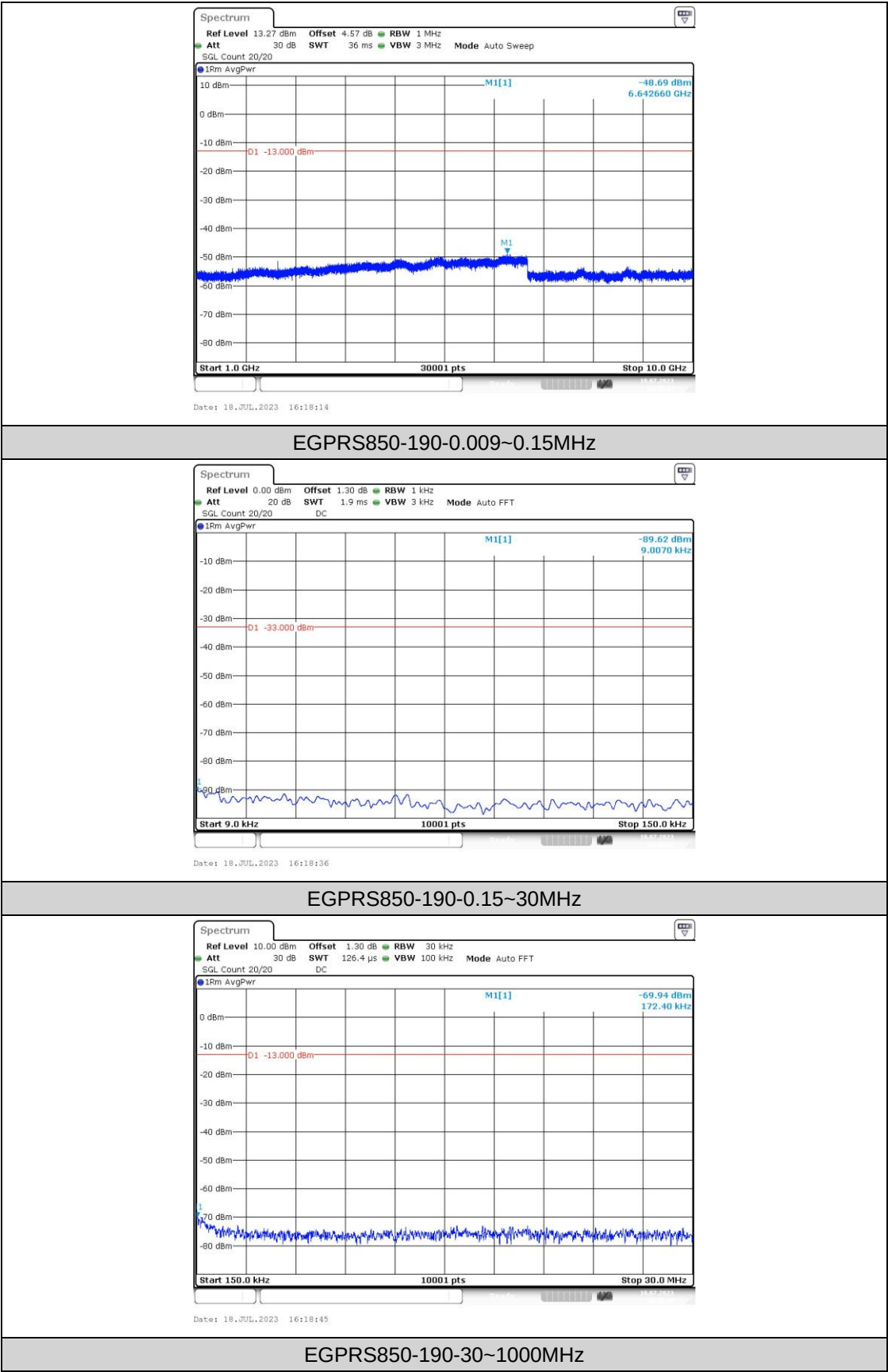


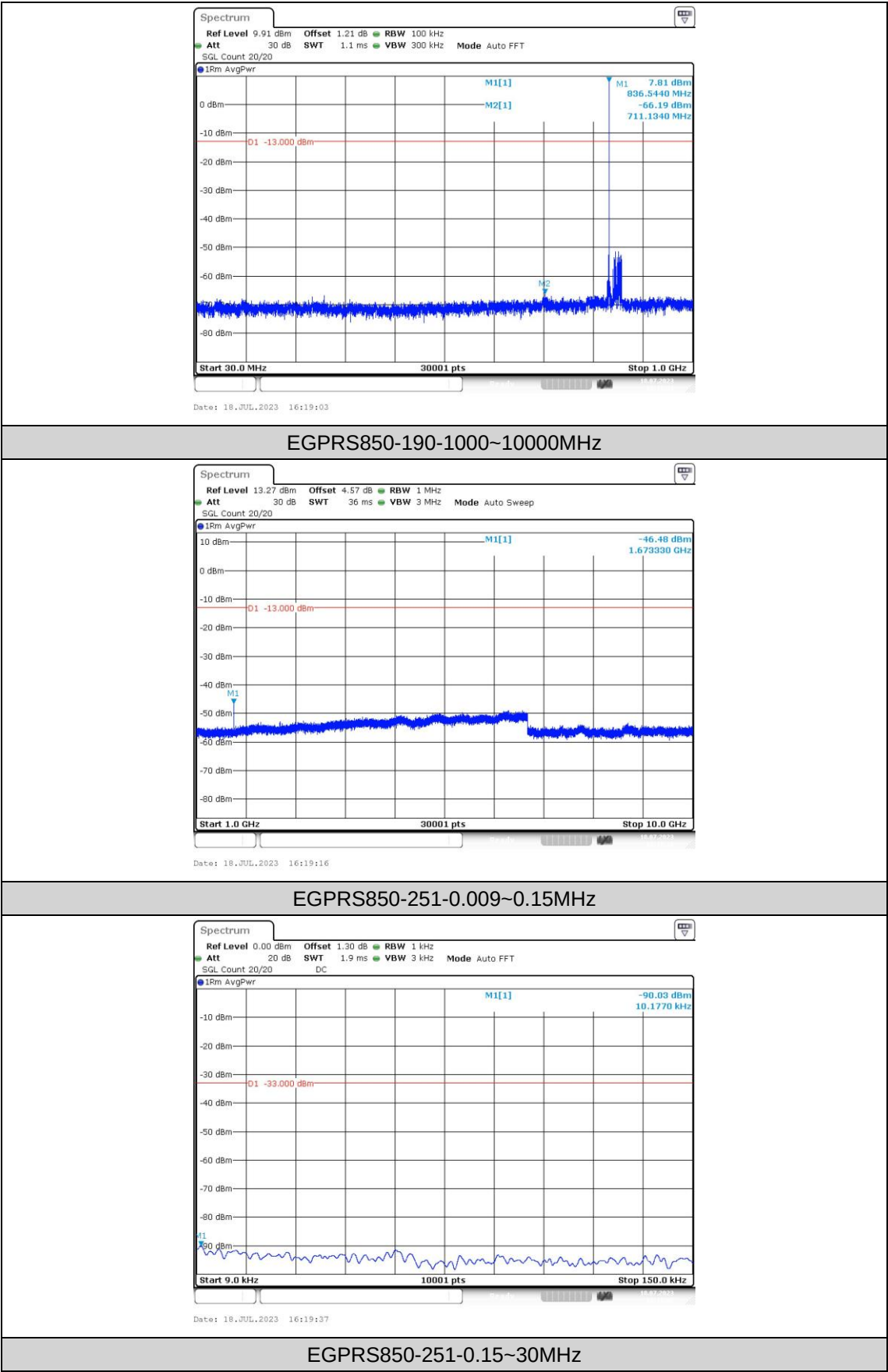
GPRS850-190-30~1000MHz

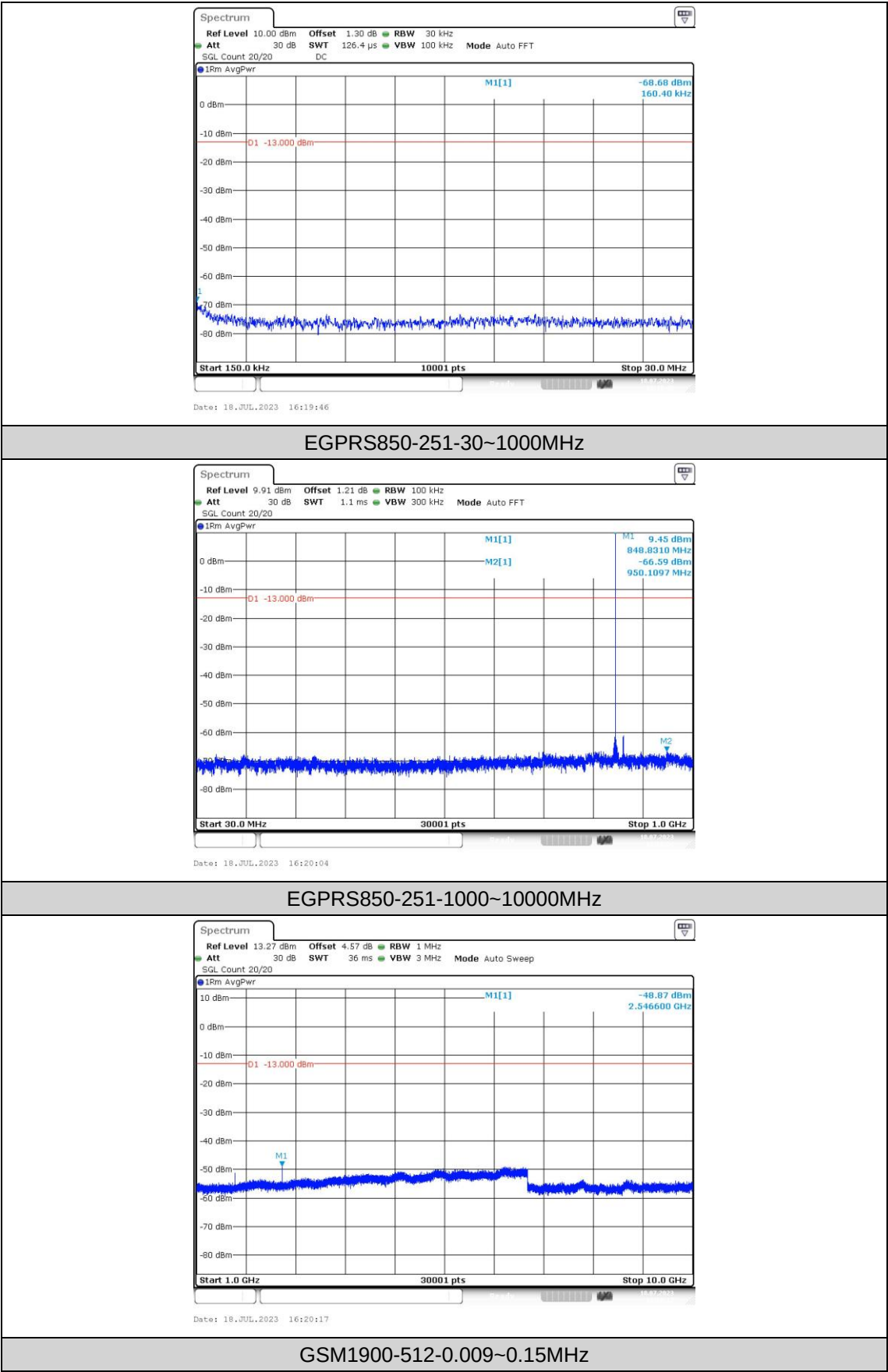


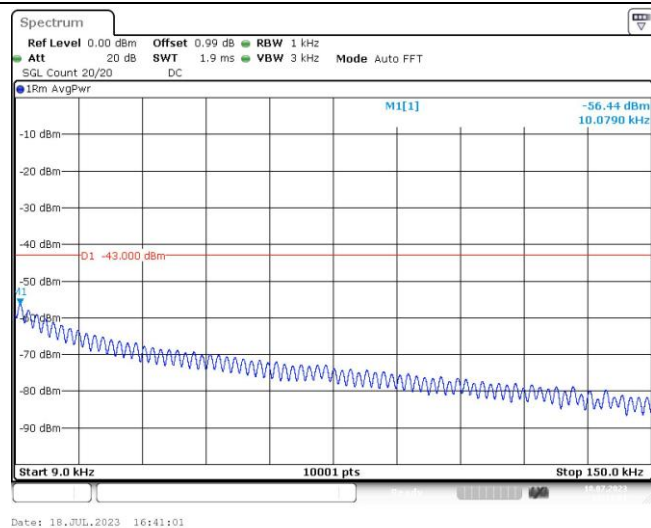




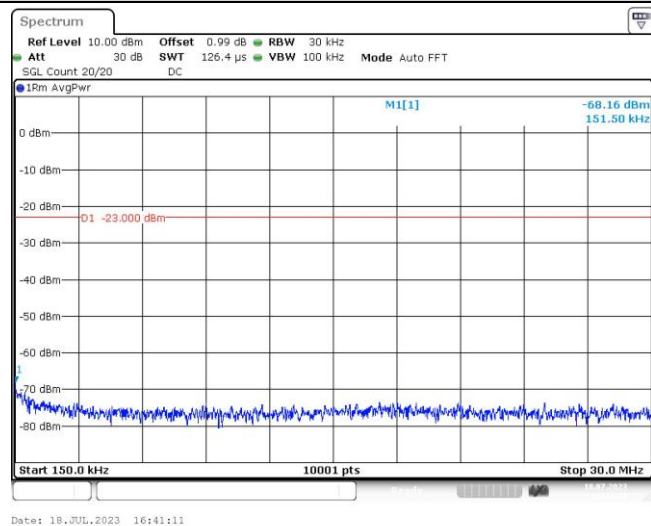




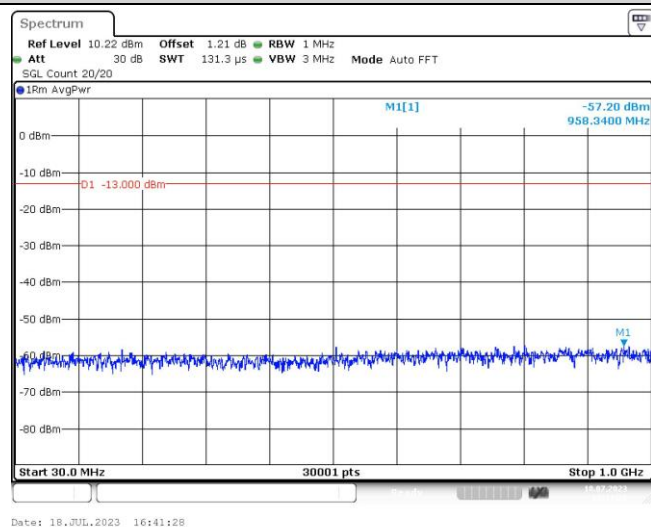




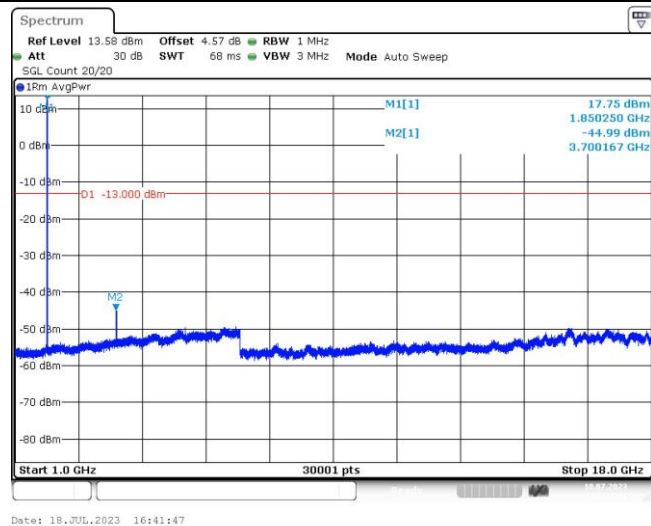
GSM1900-512-0.15~30MHz



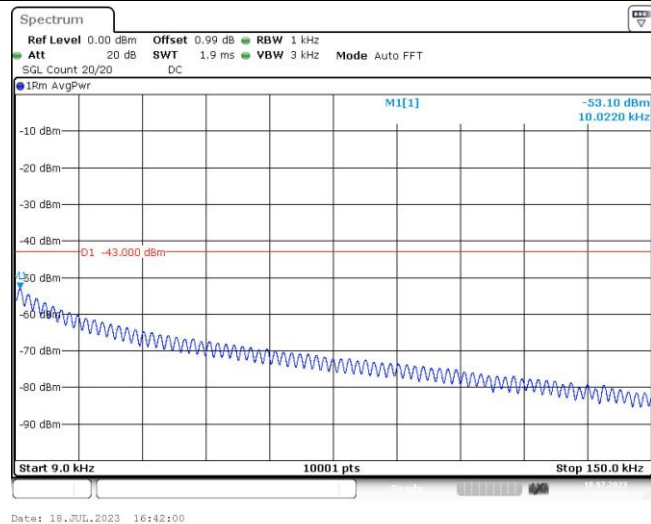
GSM1900-512-30~1000MHz



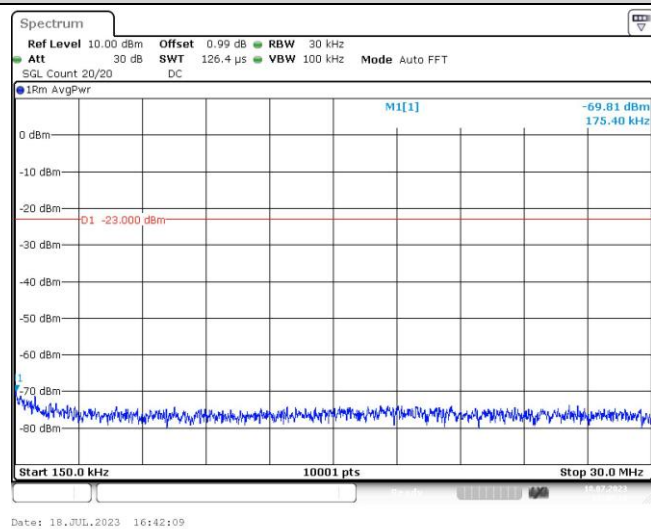
GSM1900-512-1000~18000MHz



GSM1900-661-0.009~0.15MHz



GSM1900-661-0.15~30MHz



GSM1900-661-30~1000MHz