

Appendix A: Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Channel	PCL	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GSM1900	512	0	29.07	25.93	33.00	PASS
GSM1900	661	0	29.81	26.67	33.00	PASS
GSM1900	810	0	29.92	26.78	33.00	PASS

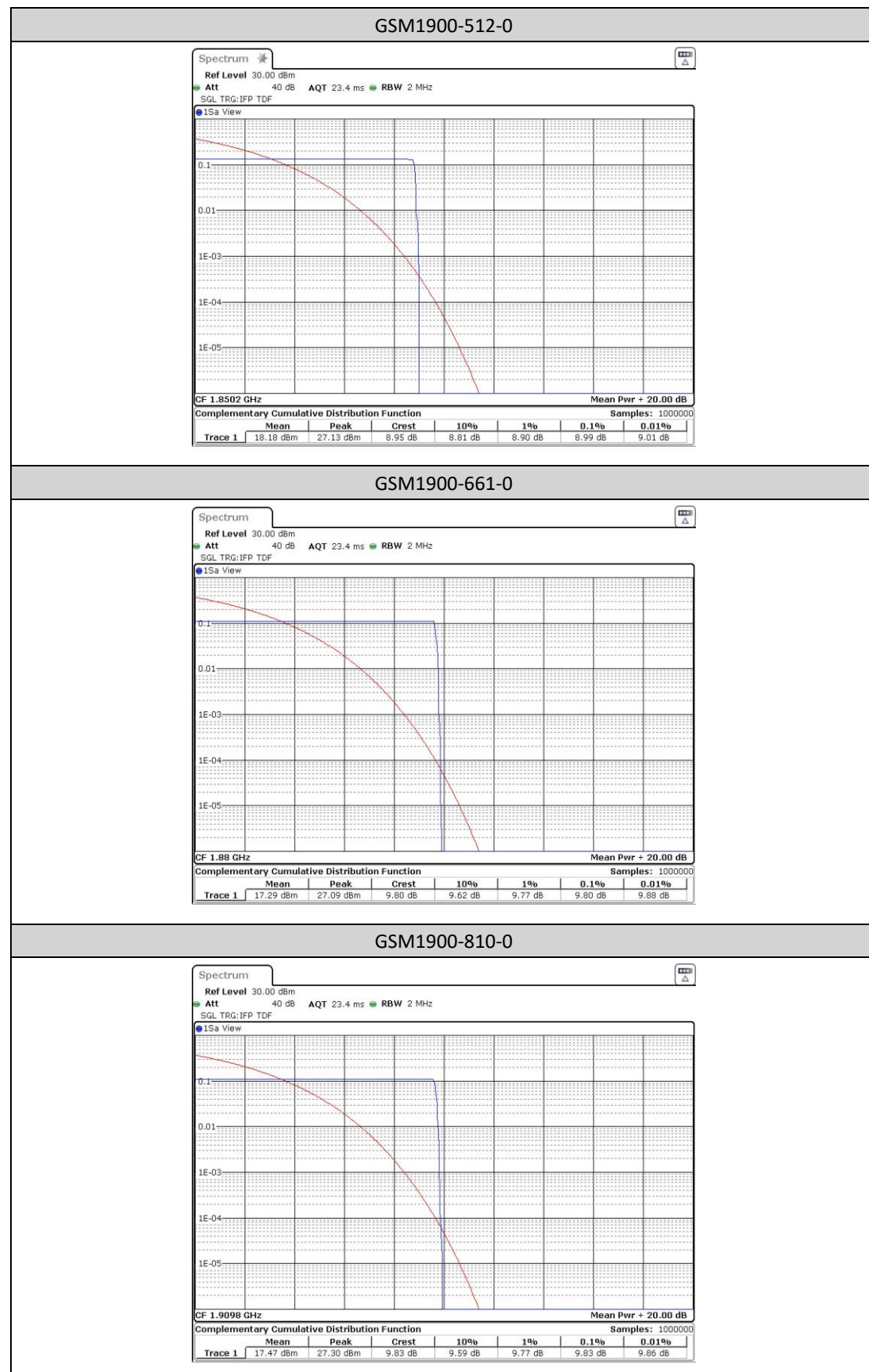
Band	Channel	PCL	Slot	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP Limit (dBm)	Verdict
GPRS1900	512	0	1	29.18	26.04	33.00	PASS
GPRS1900	512	0	2	28.23	25.09	33.00	PASS
GPRS1900	512	0	3	26.28	23.14	33.00	PASS
GPRS1900	512	0	4	24.92	21.78	33.00	PASS
GPRS1900	661	0	1	29.87	26.73	33.00	PASS
GPRS1900	661	0	2	28.95	25.81	33.00	PASS
GPRS1900	661	0	3	27.02	23.88	33.00	PASS
GPRS1900	661	0	4	25.66	22.52	33.00	PASS
GPRS1900	810	0	1	29.98	26.84	33.00	PASS
GPRS1900	810	0	2	29.09	25.95	33.00	PASS
GPRS1900	810	0	3	27.24	24.1	33.00	PASS
GPRS1900	810	0	4	25.86	22.72	33.00	PASS

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

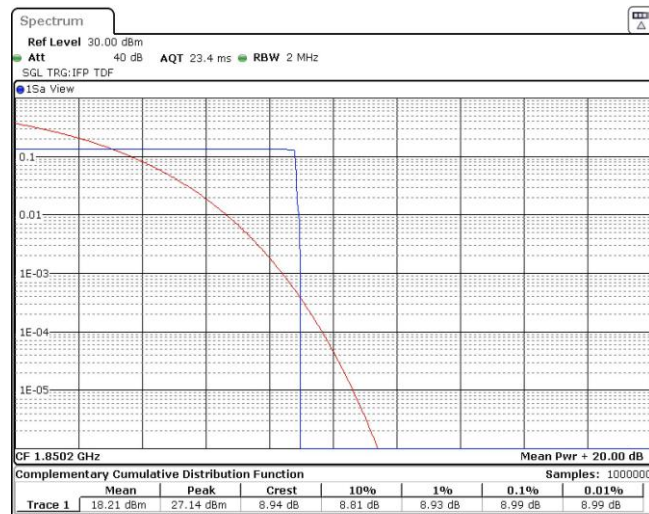
Test Result

Band	Channel	Result(dB)	Limit(dB)	Verdict
GSM1900	512	8.99	13	PASS
GSM1900	661	9.8	13	PASS
GSM1900	810	9.83	13	PASS
GPRS1900	512	8.99	13	PASS
GPRS1900	661	8.99	13	PASS
GPRS1900	810	8.99	13	PASS

Test Graphs



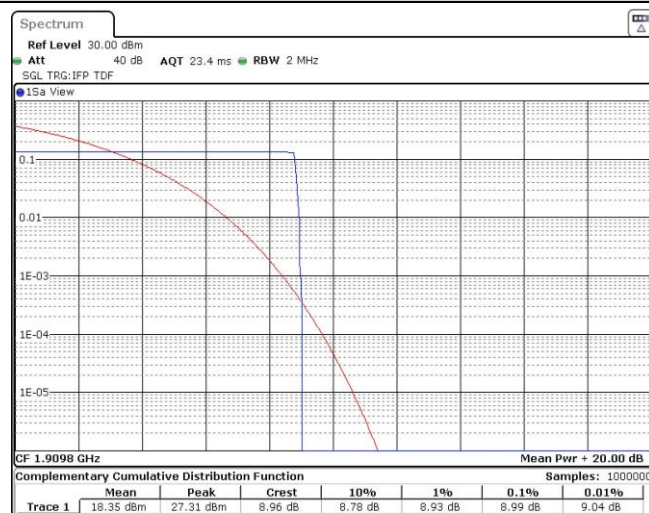
GPRS1900-512-0



GPRS1900-661-0



GPRS1900-810-0



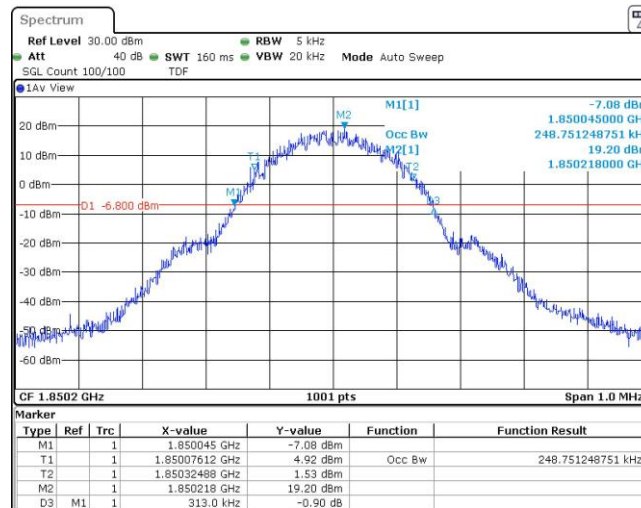
Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

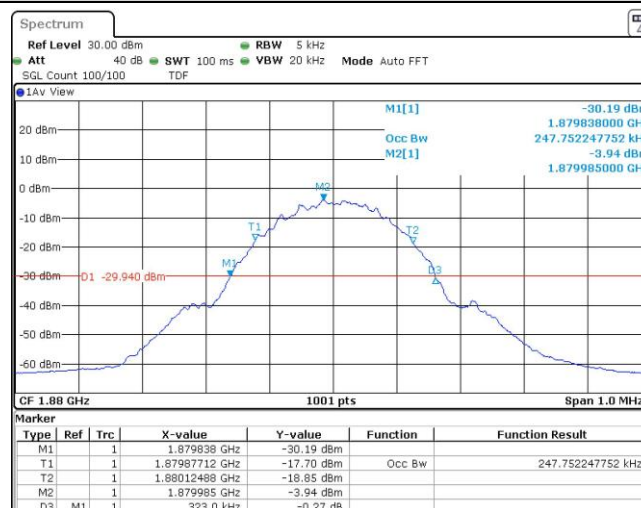
Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM1900	512	0.249	0.31	---	PASS
GSM1900	661	0.248	0.32	---	PASS
GSM1900	810	0.248	0.32	---	PASS
GPRS1900	512	0.248	0.32	---	PASS
GPRS1900	661	0.248	0.32	---	PASS
GPRS1900	810	0.247	0.32	---	PASS

Test Graphs

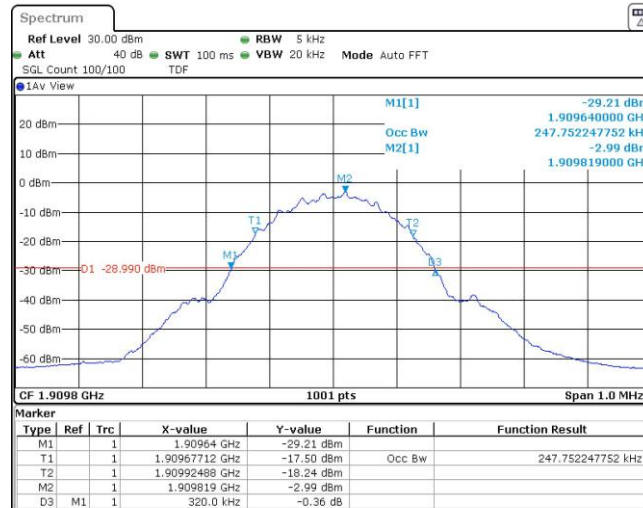
GSM1900-512-0-0.31



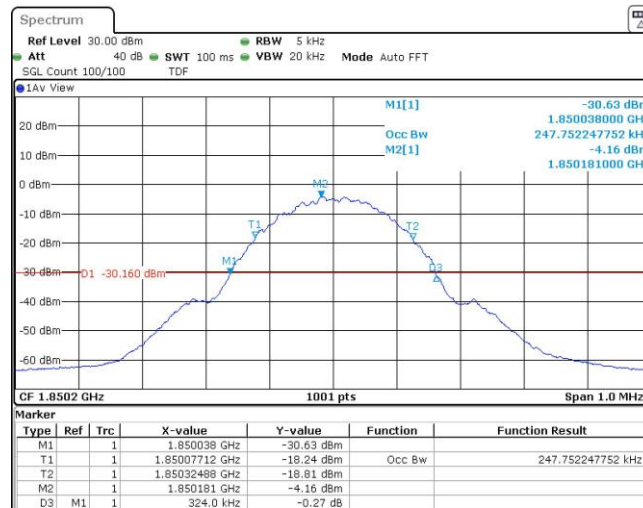
GSM1900-661-0-0.32



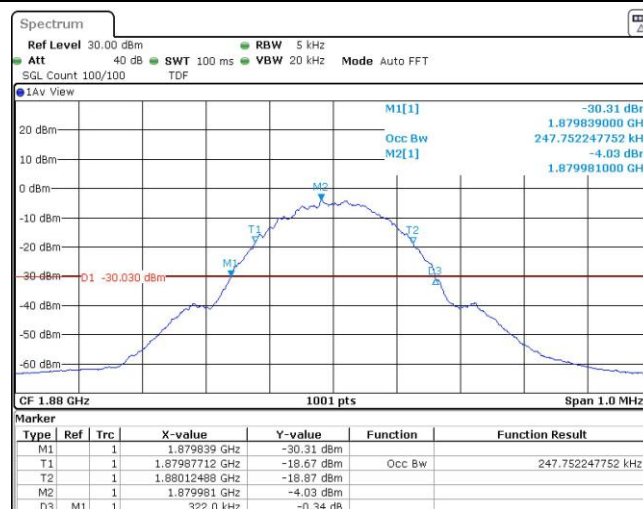
GSM1900-810-0-0.32



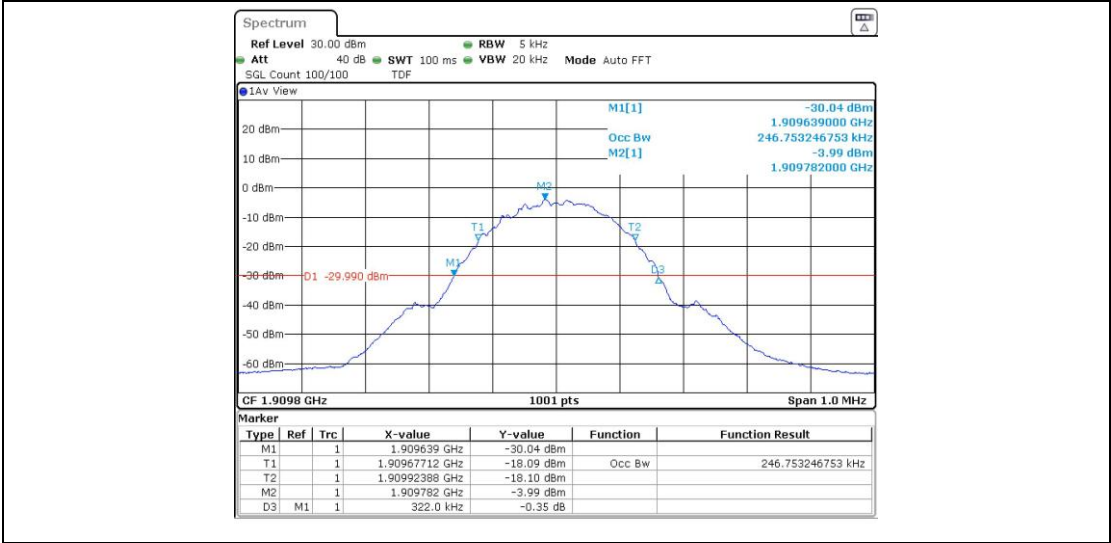
GPRS1900-512-0-0.32



GPRS1900-661-0-0.32



GPRS1900-810-0-0.32

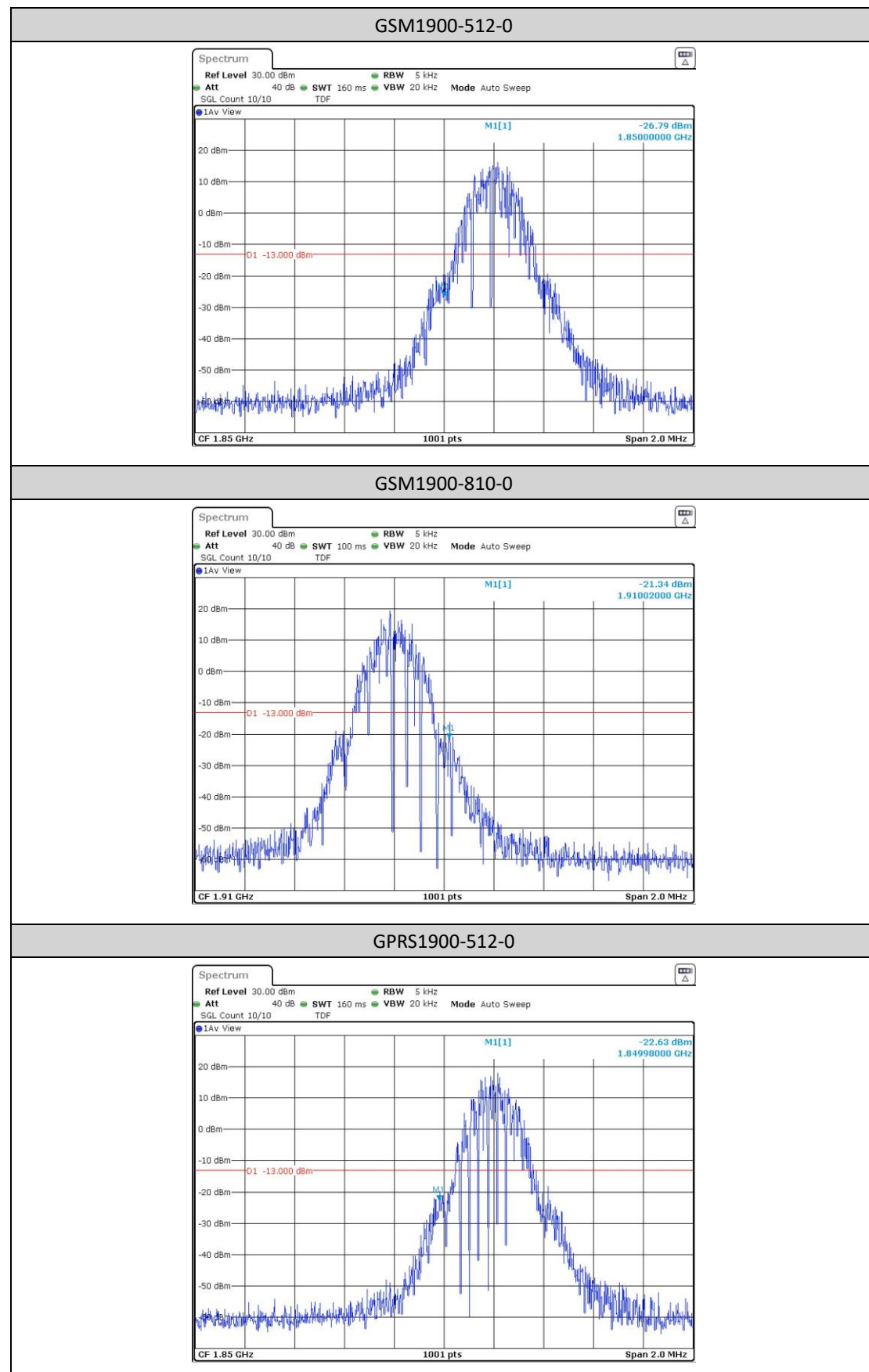


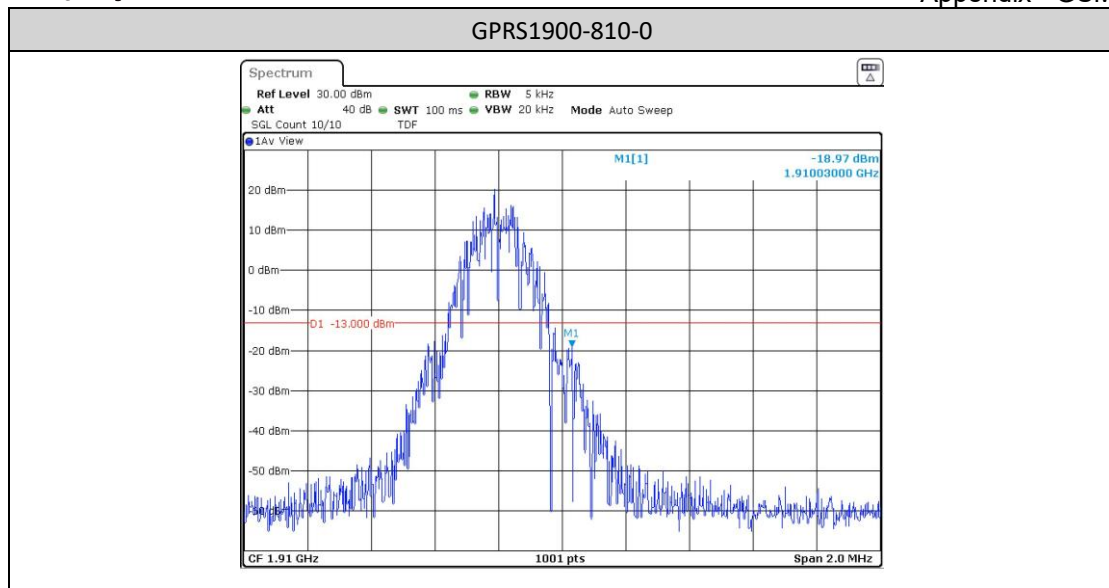
Appendix D: Band Edge

Test Result

Band	Channel	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM1900	512	1850.00	-19.64	-13	PASS
GSM1900	810	1910.02	-16.25	-13	PASS
GPRS1900	512	1849.98	-19.80	-13	PASS
GPRS1900	810	1910.03	-18.97	-13	PASS

Test Graphs





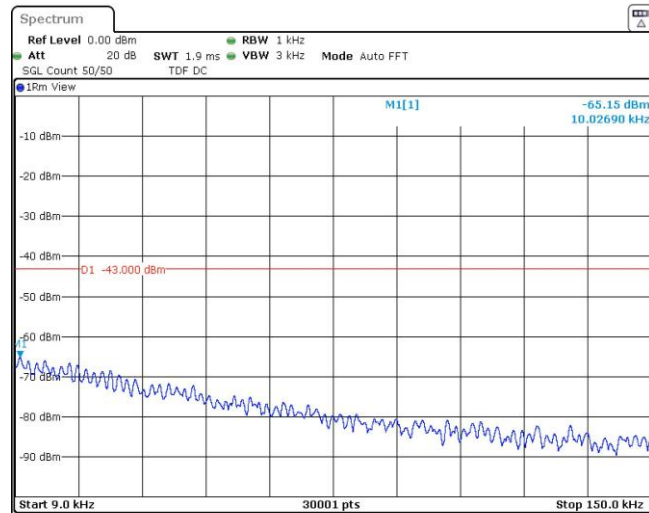
Appendix E: Conducted Spurious Emission

Test Result

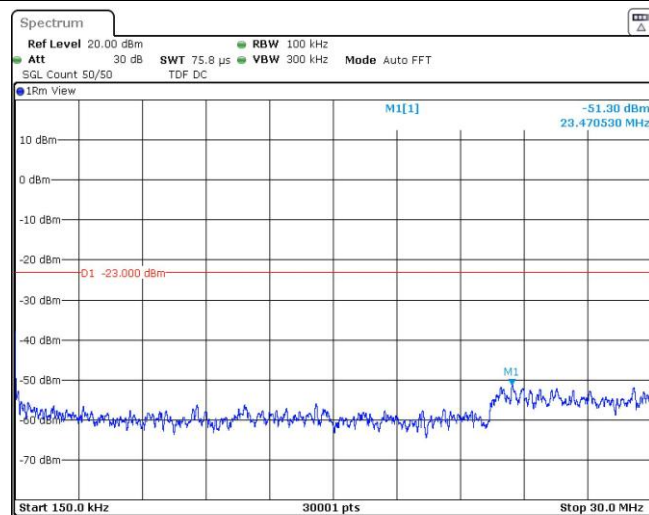
Band	Channel	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM1900	512	0.009~0.15MHz	0.01	-65.15	-43	PASS
GSM1900	512	0.15~30MHz	23.47	-51.3	-23	PASS
GSM1900	512	30~1000MHz	690.05	-35.34	-13	PASS
GSM1900	512	1000~3000MHz	2936.13	-43.78	-13	PASS
GSM1900	512	3000~10000MHz	3820.02	-34.43	-13	PASS
GSM1900	512	10000~18000MHz	17395.89	-44.18	-13	PASS
GSM1900	661	0.009~0.15MHz	0.01	-64.42	-43	PASS
GSM1900	661	0.15~30MHz	23.46	-50.84	-23	PASS
GSM1900	661	30~1000MHz	956.53	-35.53	-13	PASS
GSM1900	661	1000~3000MHz	2973.27	-43.61	-13	PASS
GSM1900	661	3000~10000MHz	5729.33	-35.43	-13	PASS
GSM1900	661	10000~18000MHz	17392.42	-44.29	-13	PASS
GSM1900	810	0.009~0.15MHz	0.01	-65	-43	PASS
GSM1900	810	0.15~30MHz	28.05	-51.59	-23	PASS
GSM1900	810	30~1000MHz	879.29	-35.48	-13	PASS
GSM1900	810	1000~3000MHz	2946	-43.73	-13	PASS
GSM1900	810	3000~10000MHz	3818.62	-43.7	-13	PASS
GSM1900	810	10000~18000MHz	17388.69	-44.15	-13	PASS
GPRS1900	512	0.009~0.15MHz	0.01	-65.68	-43	PASS
GPRS1900	512	0.15~30MHz	24.3	-50.8	-23	PASS
GPRS1900	512	30~1000MHz	186.08	-35.73	-13	PASS
GPRS1900	512	1000~3000MHz	2930.73	-43.66	-13	PASS
GPRS1900	512	3000~10000MHz	3820.02	-34.37	-13	PASS
GPRS1900	512	10000~18000MHz	17383.62	-44.26	-13	PASS
GPRS1900	661	0.009~0.15MHz	0.01	-65.29	-43	PASS
GPRS1900	661	0.15~30MHz	23.14	-51.34	-23	PASS
GPRS1900	661	30~1000MHz	922.26	-35.86	-13	PASS
GPRS1900	661	1000~3000MHz	2954.13	-43.77	-13	PASS
GPRS1900	661	3000~10000MHz	3818.86	-42.36	-13	PASS
GPRS1900	661	10000~18000MHz	17405.22	-44.34	-13	PASS
GPRS1900	810	0.009~0.15MHz	0.01	-64.14	-43	PASS
GPRS1900	810	0.15~30MHz	23.8	-52.27	-23	PASS
GPRS1900	810	30~1000MHz	676.92	-36	-13	PASS
GPRS1900	810	1000~3000MHz	2981.87	-43.73	-13	PASS
GPRS1900	810	3000~10000MHz	3819.79	-34.21	-13	PASS
GPRS1900	810	10000~18000MHz	17386.82	-44.27	-13	PASS

Test Graphs

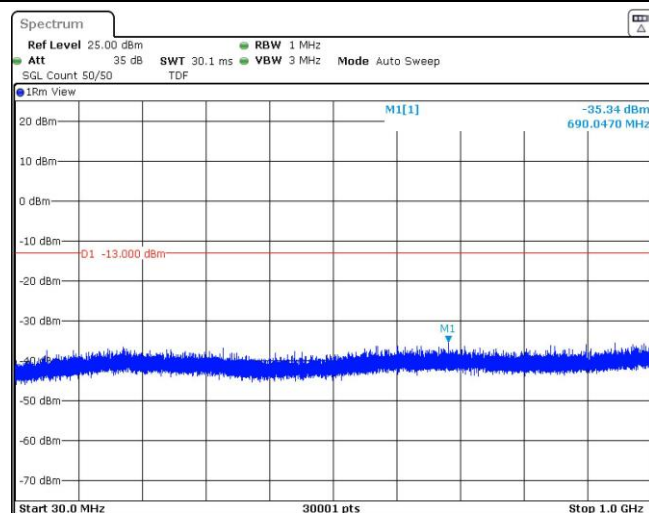
GSM1900-512-0-0.009~0.15MHz



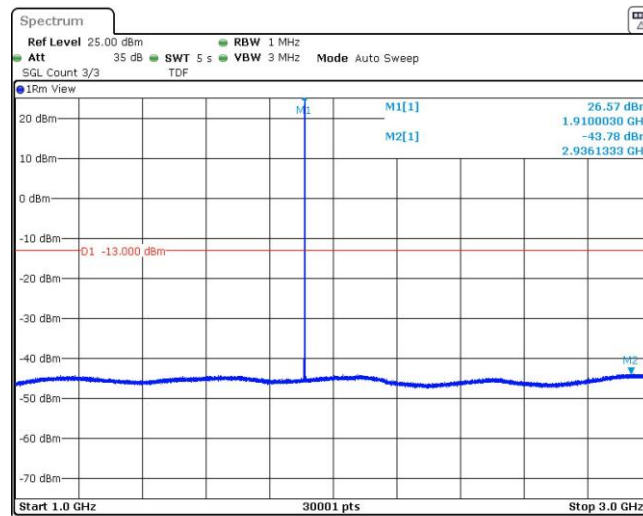
GSM1900-512-0-0.15~30MHz



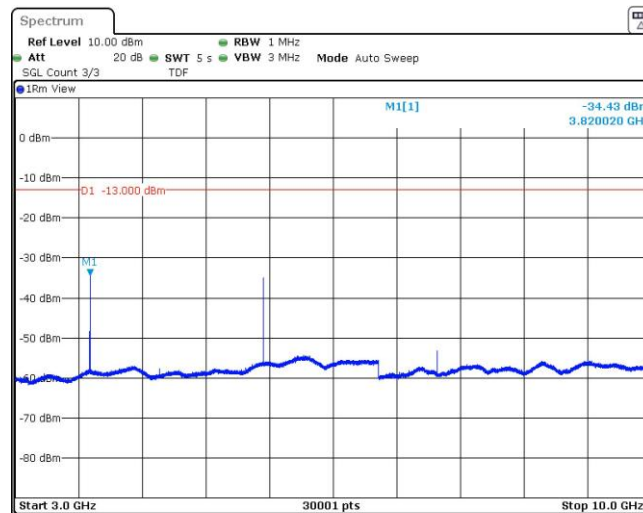
GSM1900-512-0-30~1000MHz



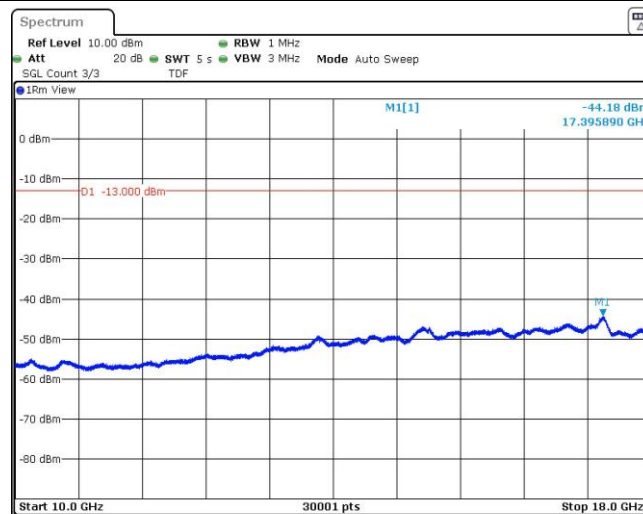
GSM1900-512-0-1000~3000MHz



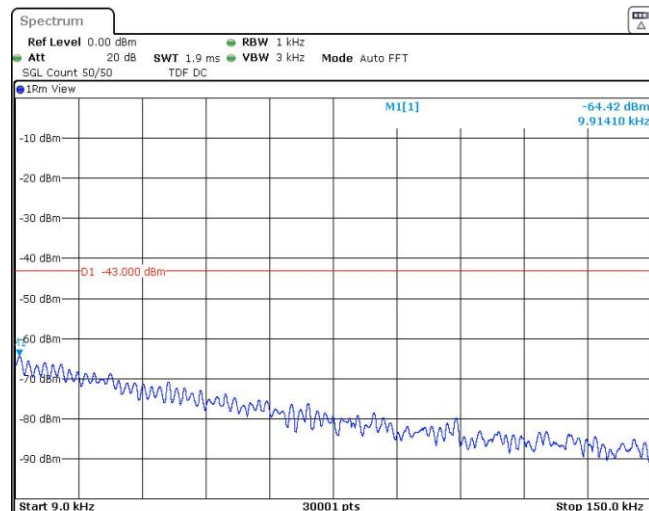
GSM1900-512-0-3000~10000MHz



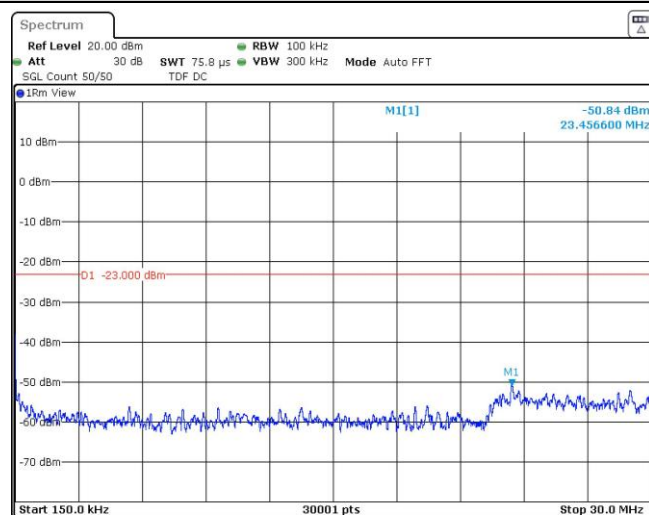
GSM1900-512-0-10000~18000MHz



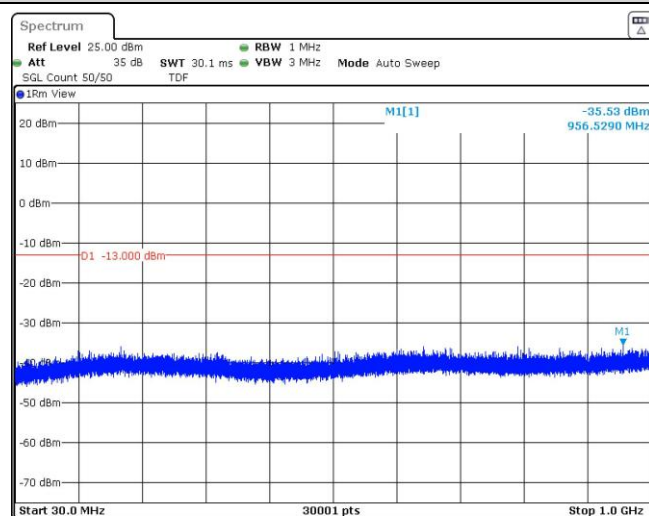
GSM1900-661-0-0.009~0.15MHz



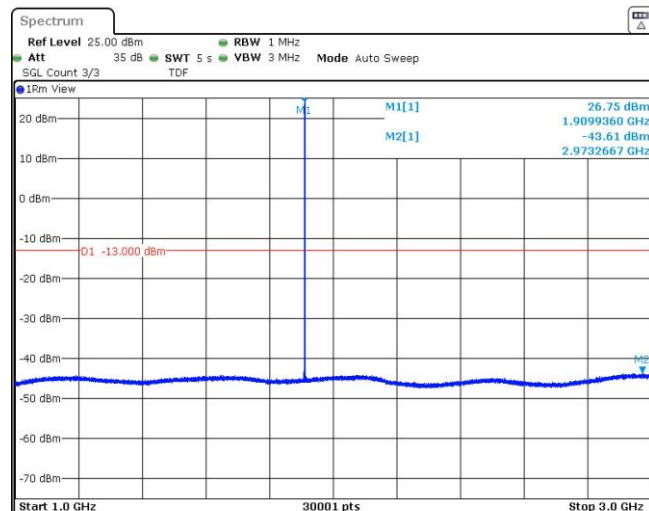
GSM1900-661-0-0.15~30MHz



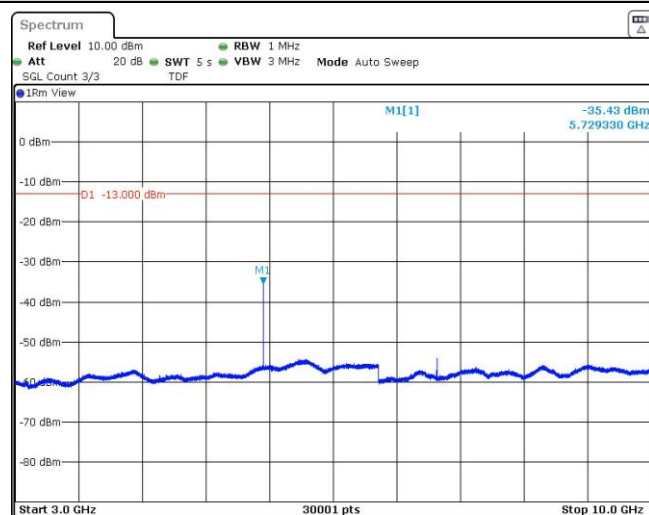
GSM1900-661-0-30~1000MHz



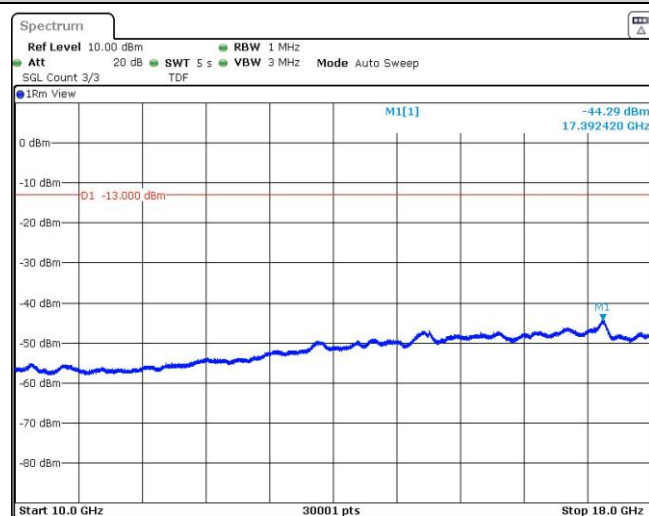
GSM1900-661-0-1000~3000MHz



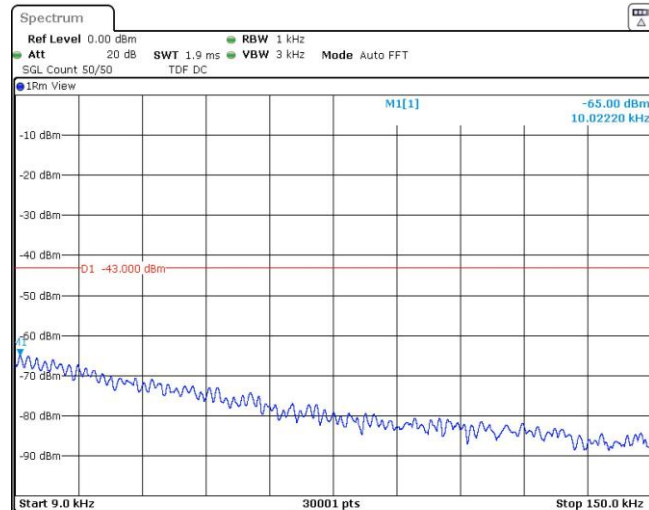
GSM1900-661-0-3000~10000MHz



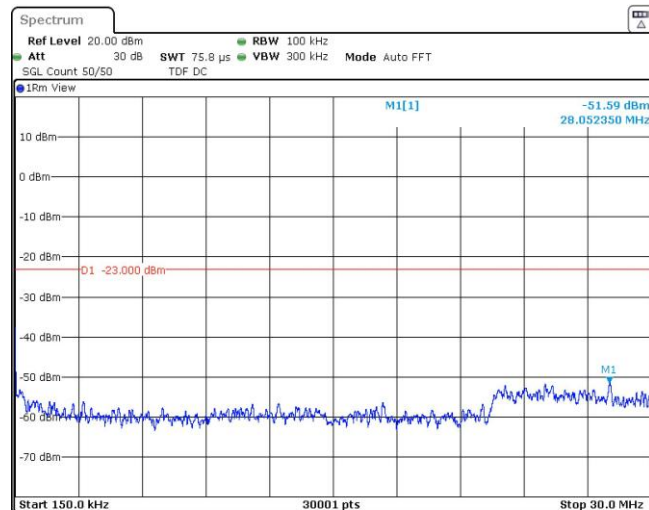
GSM1900-661-0-10000~18000MHz



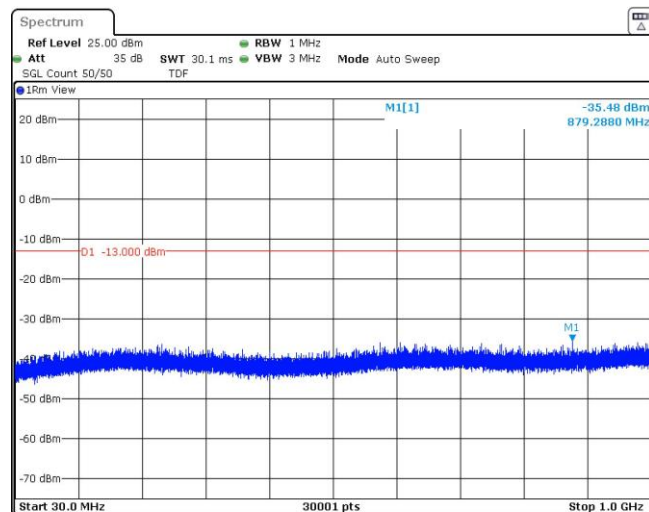
GSM1900-810-0-0.009~0.15MHz



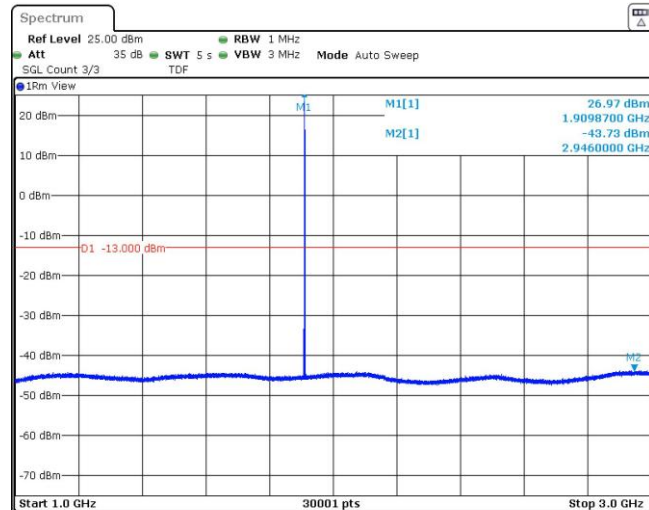
GSM1900-810-0-0.15~30MHz



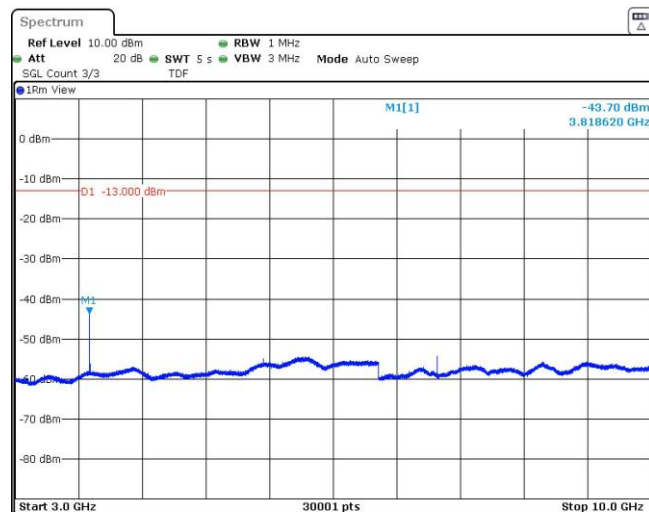
GSM1900-810-0-30~1000MHz



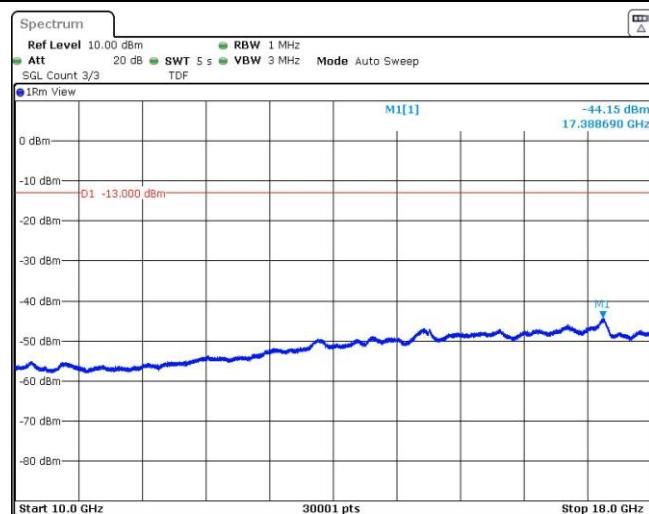
GSM1900-810-0-1000~3000MHz



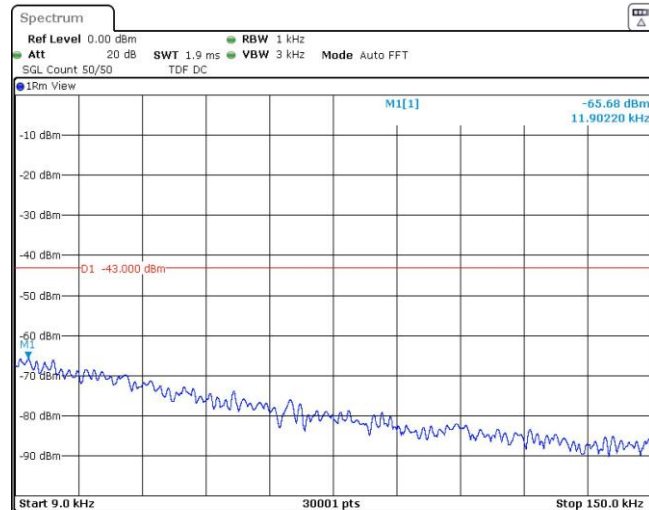
GSM1900-810-0-3000~10000MHz



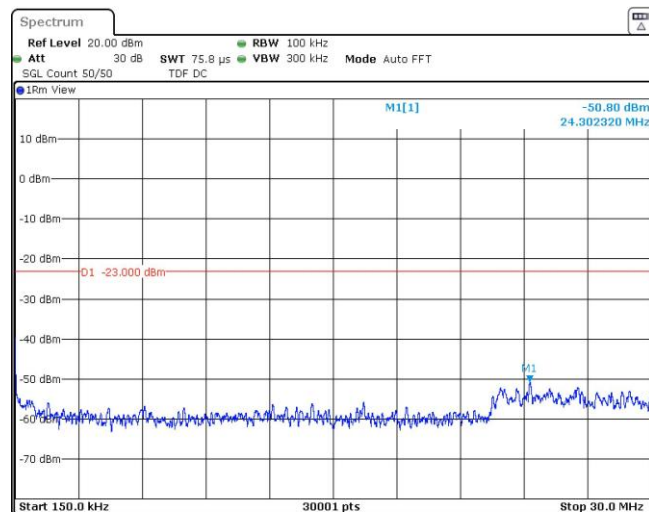
GSM1900-810-0-10000~18000MHz



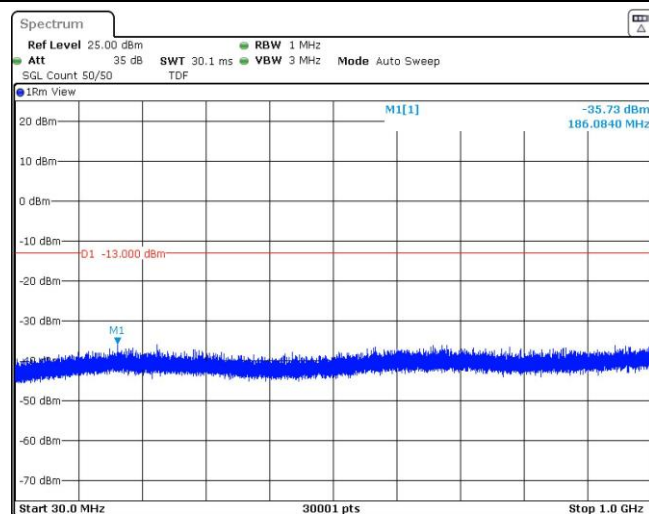
GPRS1900-512-0-0.009~0.15MHz



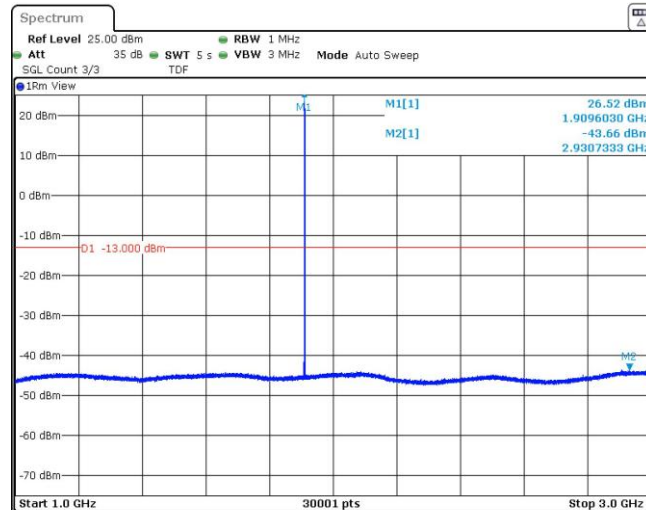
GPRS1900-512-0-0.15~30MHz



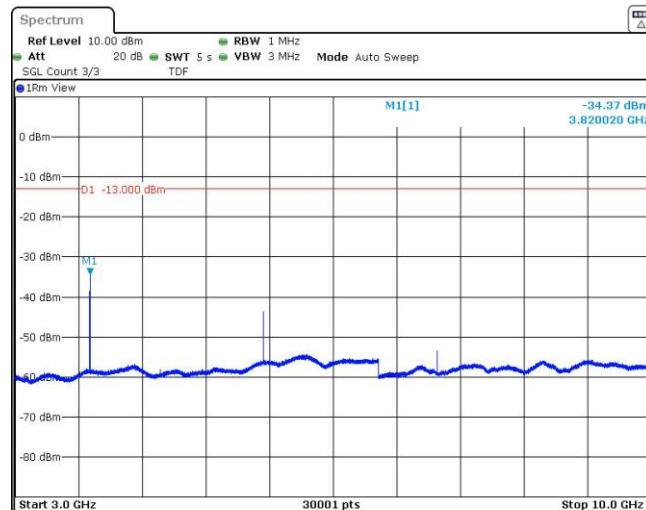
GPRS1900-512-0-30~1000MHz



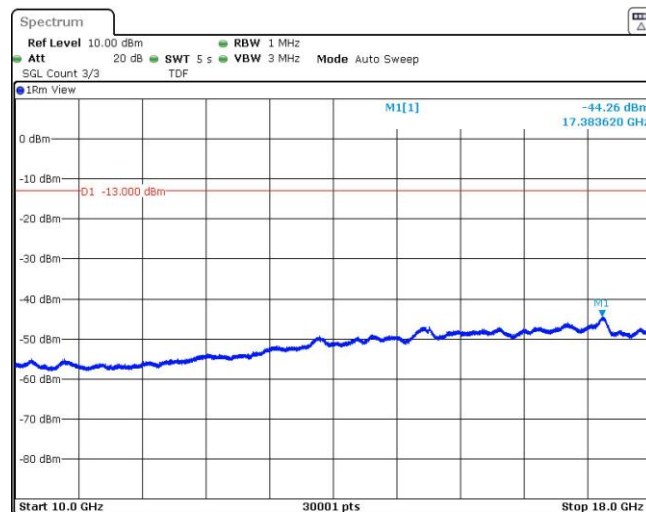
GPRS1900-512-0-1000~3000MHz



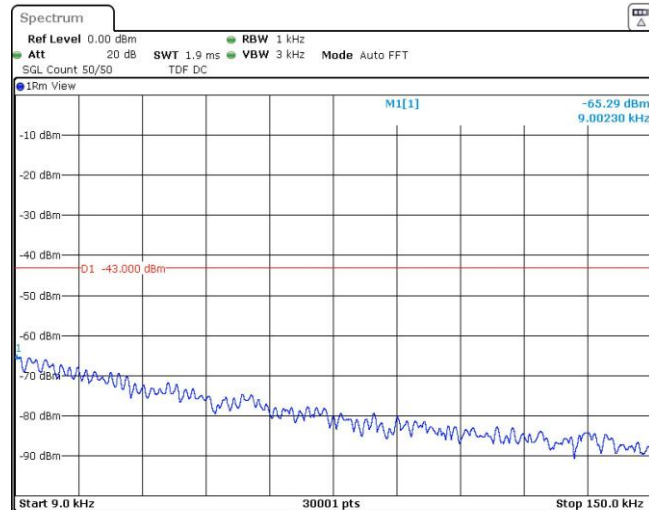
GPRS1900-512-0-3000~10000MHz



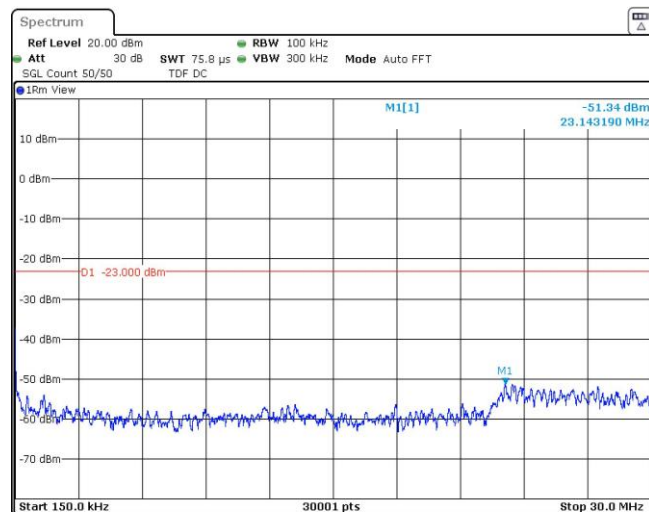
GPRS1900-512-0-10000~18000MHz



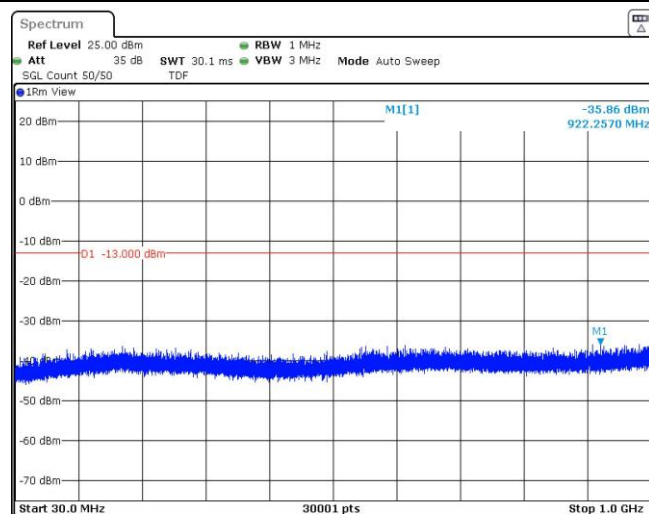
GPRS1900-661-0-0.009~0.15MHz



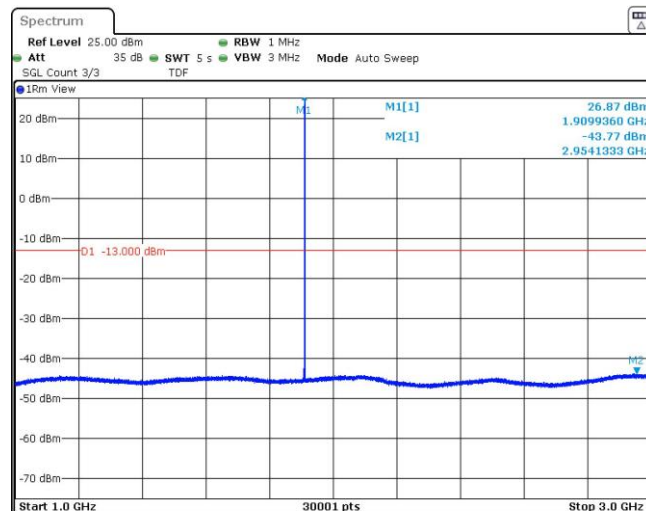
GPRS1900-661-0-0.15~30MHz



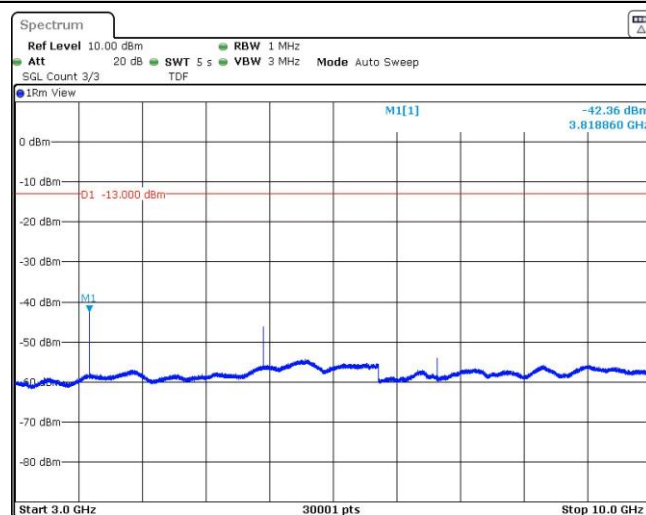
GPRS1900-661-0-30~1000MHz



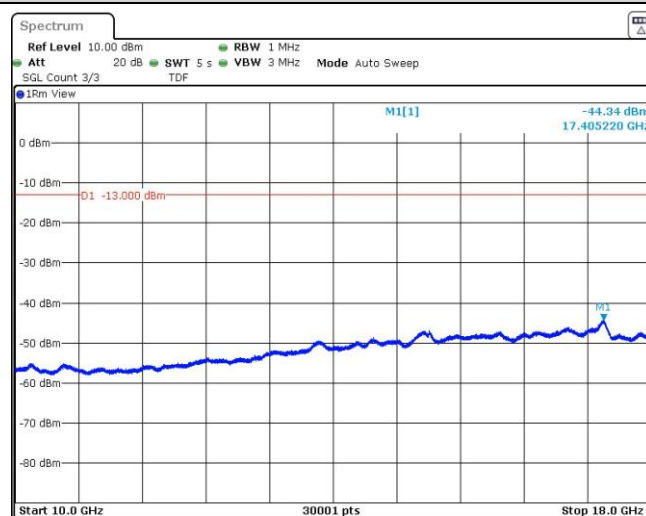
GPRS1900-661-0-1000~3000MHz



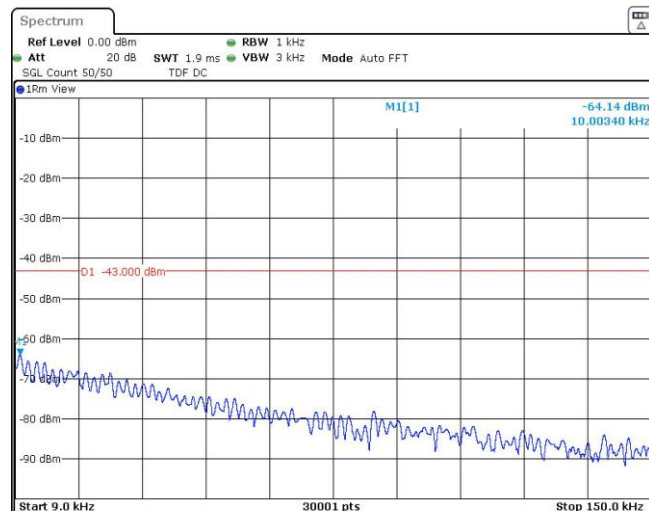
GPRS1900-661-0-3000~10000MHz



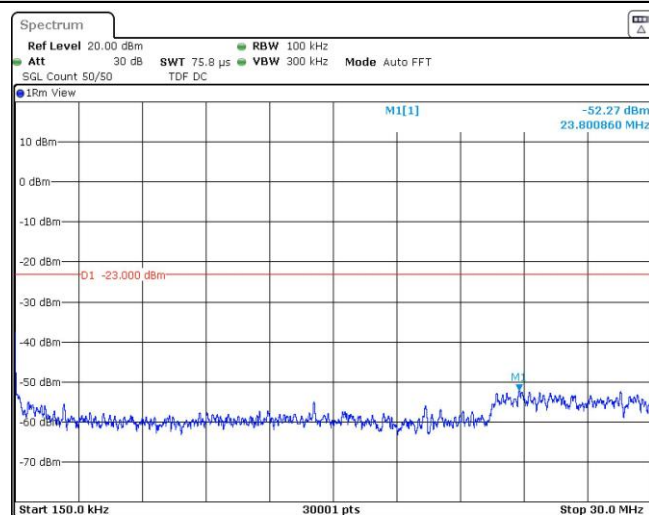
GPRS1900-661-0-10000~18000MHz



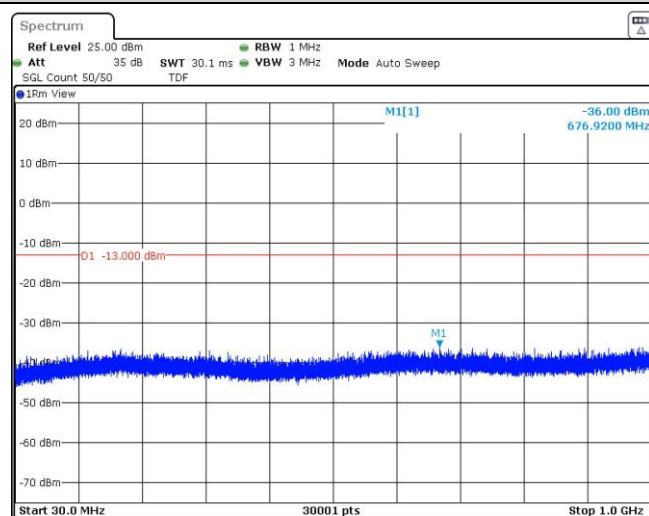
GPRS1900-810-0-0.009~0.15MHz



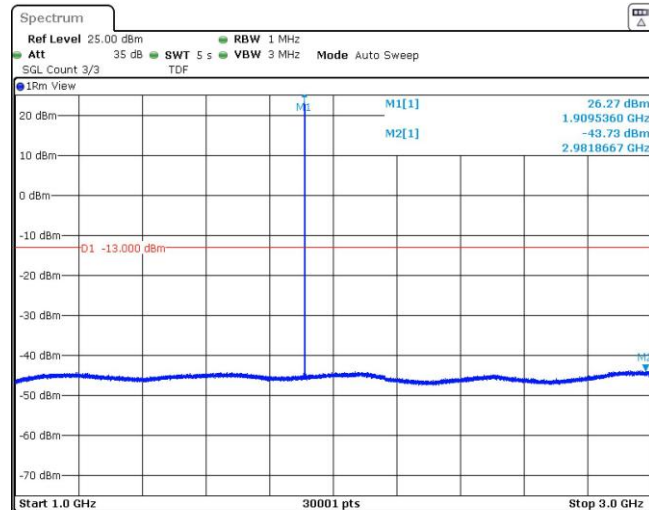
GPRS1900-810-0-0.15~30MHz



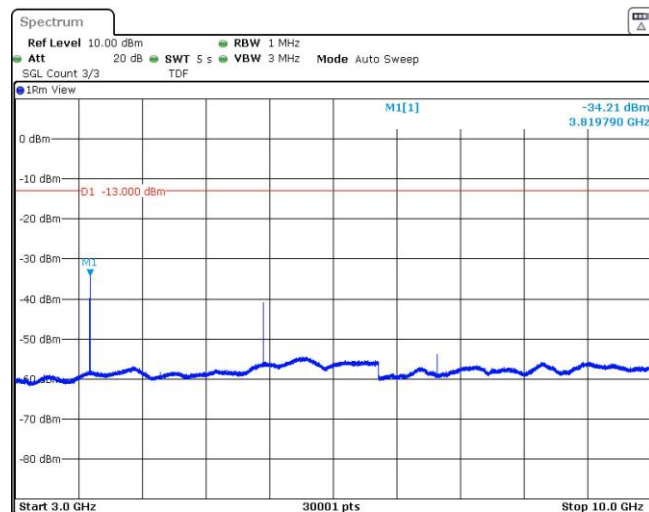
GPRS1900-810-0-30~1000MHz



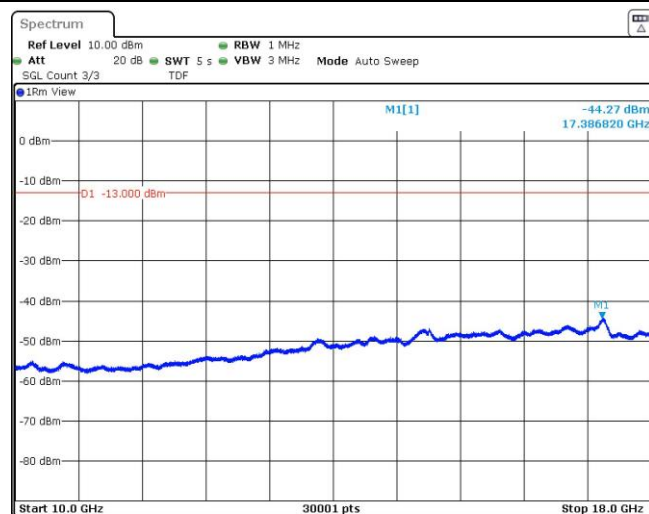
GPRS1900-810-0-1000~3000MHz



GPRS1900-810-0-3000~10000MHz



GPRS1900-810-0-10000~18000MHz



Appendix F: Frequency Stability

Test Result

Voltage							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM1900	512	VL	NT	16.40	0.008864	±2.5	PASS
GSM1900	512	VN	NT	18.47	0.009983	±2.5	PASS
GSM1900	512	VH	NT	17.50	0.009458	±2.5	PASS
GSM1900	661	VL	NT	22.21	0.011814	±2.5	PASS
GSM1900	661	VN	NT	18.37	0.009771	±2.5	PASS
GSM1900	661	VH	NT	26.12	0.013894	±2.5	PASS
GSM1900	810	VL	NT	19.66	0.010294	±2.5	PASS
GSM1900	810	VN	NT	24.44	0.012797	±2.5	PASS
GSM1900	810	VH	NT	23.08	0.012085	±2.5	PASS
GPRS1900	512	VL	NT	5.88	0.003178	±2.5	PASS
GPRS1900	512	VN	NT	7.62	0.004118	±2.5	PASS
GPRS1900	512	VH	NT	12.07	0.006524	±2.5	PASS
GPRS1900	661	VL	NT	17.40	0.009255	±2.5	PASS
GPRS1900	661	VN	NT	20.28	0.010787	±2.5	PASS
GPRS1900	661	VH	NT	16.56	0.008809	±2.5	PASS
GPRS1900	810	VL	NT	14.63	0.007660	±2.5	PASS
GPRS1900	810	VN	NT	18.05	0.009451	±2.5	PASS
GPRS1900	810	VH	NT	16.98	0.008891	±2.5	PASS

Temperature							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM1900	512	NV	-30	16.79	0.009075	±2.5	PASS
GSM1900	512	NV	-20	15.72	0.008496	±2.5	PASS
GSM1900	512	NV	-10	16.01	0.008653	±2.5	PASS
GSM1900	512	NV	0	14.46	0.007815	±2.5	PASS
GSM1900	512	NV	10	19.92	0.010766	±2.5	PASS
GSM1900	512	NV	20	17.72	0.009577	±2.5	PASS
GSM1900	512	NV	30	20.08	0.010853	±2.5	PASS
GSM1900	512	NV	40	16.76	0.009058	±2.5	PASS
GSM1900	512	NV	50	14.56	0.007869	±2.5	PASS
GSM1900	661	NV	-30	24.47	0.013016	±2.5	PASS
GSM1900	661	NV	-20	20.95	0.011144	±2.5	PASS
GSM1900	661	NV	-10	22.54	0.011989	±2.5	PASS
GSM1900	661	NV	0	20.11	0.010697	±2.5	PASS

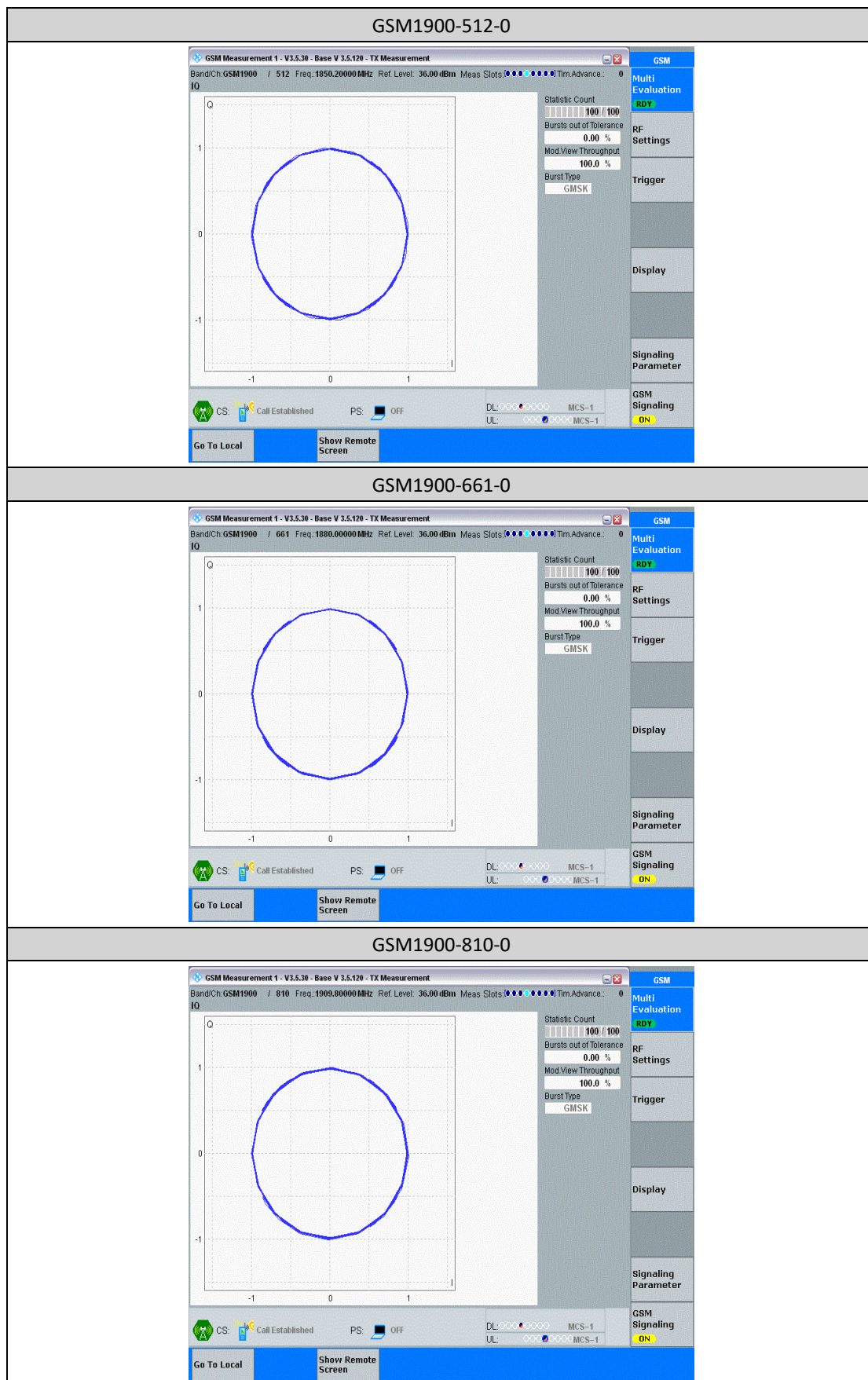
GSM1900	661	NV	10	22.83	0.012144	±2.5	PASS
GSM1900	661	NV	20	21.83	0.011612	±2.5	PASS
GSM1900	661	NV	30	18.08	0.009617	±2.5	PASS
GSM1900	661	NV	40	18.27	0.009718	±2.5	PASS
GSM1900	661	NV	50	21.34	0.011351	±2.5	PASS
GSM1900	810	NV	-30	20.73	0.010855	±2.5	PASS
GSM1900	810	NV	-20	19.76	0.010347	±2.5	PASS
GSM1900	810	NV	-10	20.08	0.010514	±2.5	PASS
GSM1900	810	NV	0	19.76	0.010347	±2.5	PASS
GSM1900	810	NV	10	19.86	0.010399	±2.5	PASS
GSM1900	810	NV	20	20.31	0.010635	±2.5	PASS
GSM1900	810	NV	30	19.57	0.010247	±2.5	PASS
GSM1900	810	NV	40	17.27	0.009043	±2.5	PASS
GSM1900	810	NV	50	20.60	0.010786	±2.5	PASS
GPRS1900	512	NV	-30	10.98	0.005934	±2.5	PASS
GPRS1900	512	NV	-20	14.04	0.007588	±2.5	PASS
GPRS1900	512	NV	-10	15.08	0.008150	±2.5	PASS
GPRS1900	512	NV	0	9.56	0.005167	±2.5	PASS
GPRS1900	512	NV	10	12.40	0.006702	±2.5	PASS
GPRS1900	512	NV	20	12.30	0.006648	±2.5	PASS
GPRS1900	512	NV	30	10.23	0.005529	±2.5	PASS
GPRS1900	512	NV	40	13.17	0.007118	±2.5	PASS
GPRS1900	512	NV	50	11.20	0.006053	±2.5	PASS
GPRS1900	661	NV	-30	16.89	0.008984	±2.5	PASS
GPRS1900	661	NV	-20	20.92	0.011128	±2.5	PASS
GPRS1900	661	NV	-10	19.82	0.010543	±2.5	PASS
GPRS1900	661	NV	0	13.92	0.007404	±2.5	PASS
GPRS1900	661	NV	10	13.20	0.007021	±2.5	PASS
GPRS1900	661	NV	20	15.85	0.008431	±2.5	PASS
GPRS1900	661	NV	30	15.72	0.008362	±2.5	PASS
GPRS1900	661	NV	40	14.95	0.007952	±2.5	PASS
GPRS1900	661	NV	50	17.05	0.009069	±2.5	PASS
GPRS1900	810	NV	-30	22.60	0.011834	±2.5	PASS
GPRS1900	810	NV	-20	16.53	0.008655	±2.5	PASS
GPRS1900	810	NV	-10	17.43	0.009127	±2.5	PASS
GPRS1900	810	NV	0	17.50	0.009163	±2.5	PASS
GPRS1900	810	NV	10	12.95	0.006781	±2.5	PASS
GPRS1900	810	NV	20	18.85	0.009870	±2.5	PASS
GPRS1900	810	NV	30	19.73	0.010331	±2.5	PASS
GPRS1900	810	NV	40	13.11	0.006865	±2.5	PASS
GPRS1900	810	NV	50	17.11	0.008959	±2.5	PASS

Appendix G: Modulation Characteristics

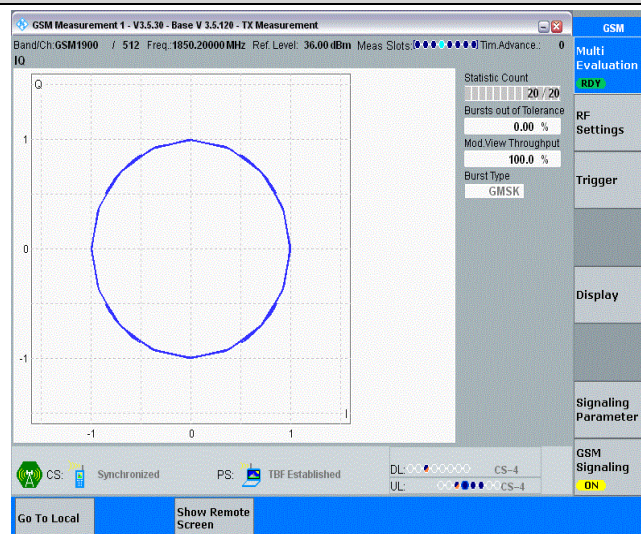
Test Result

Band	Channel	Result	Verdict
GSM1900	512	PASS	PASS
GSM1900	661	PASS	PASS
GSM1900	810	PASS	PASS
GPRS1900	512	PASS	PASS
GPRS1900	661	PASS	PASS
GPRS1900	810	PASS	PASS

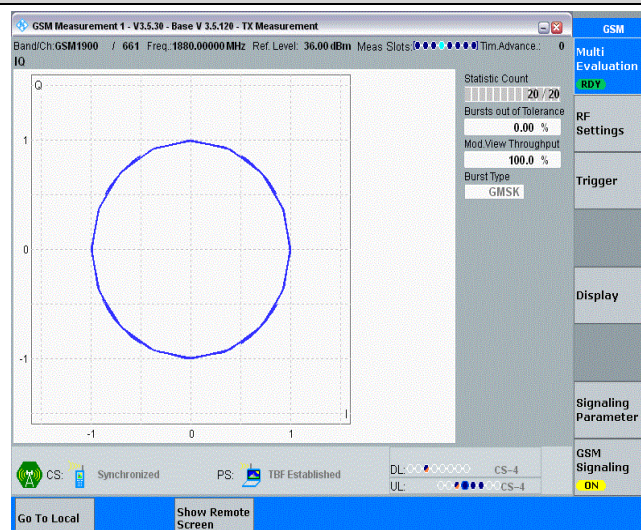
Test Graphs



GPRS1900-512-0



GPRS1900-661-0



GPRS1900-810-0

