

Appendix GSM 850 and DCS1900 Test Data

Product Name : GPRS BOX
Model Number : Solis-DLB-G
FCC ID : 2AWE8-GPRS-BOX

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Report Number : ES200509017W

Appendix A: Conducted Power (Average power)

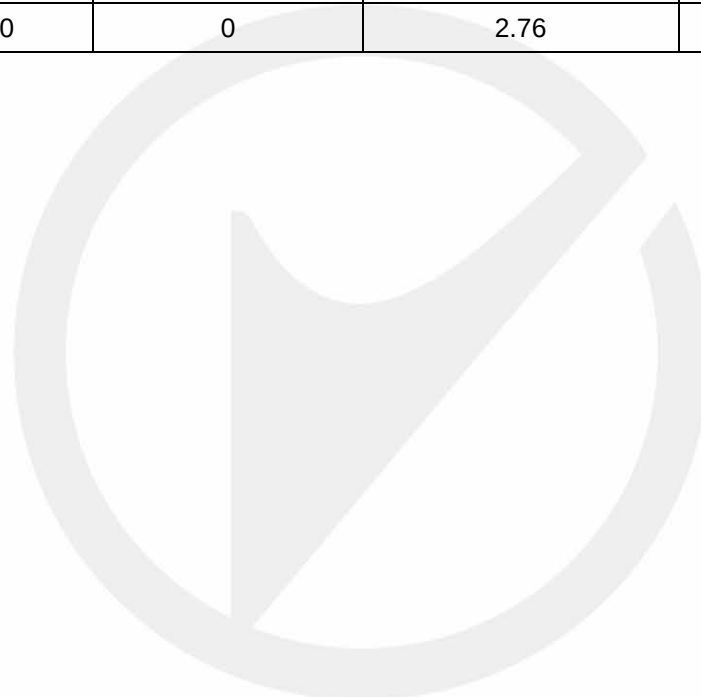
Test Result

Band	Channel	PCL	Slot	Power(dBm)	Verdict
GPRS850	128	3	1	32.08	PASS
GPRS850	128	3	2	32.02	PASS
GPRS850	128	3	3	31.18	PASS
GPRS850	128	3	4	30.01	PASS
GPRS850	190	3	1	32.08	PASS
GPRS850	190	3	2	32.05	PASS
GPRS850	190	3	3	31.16	PASS
GPRS850	190	3	4	30.04	PASS
GPRS850	251	3	1	32.16	PASS
GPRS850	251	3	2	32.13	PASS
GPRS850	251	3	3	31.24	PASS
GPRS850	251	3	4	29.72	PASS
GPRS1900	512	0	1	28.18	PASS
GPRS1900	512	0	2	28.50	PASS
GPRS1900	512	0	3	28.40	PASS
GPRS1900	512	0	4	28.22	PASS
GPRS1900	661	0	1	28.70	PASS
GPRS1900	661	0	2	28.63	PASS
GPRS1900	661	0	3	28.53	PASS
GPRS1900	661	0	4	28.44	PASS
GPRS1900	810	0	1	28.22	PASS
GPRS1900	810	0	2	28.19	PASS
GPRS1900	810	0	3	28.10	PASS
GPRS1900	810	0	4	28.20	PASS

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

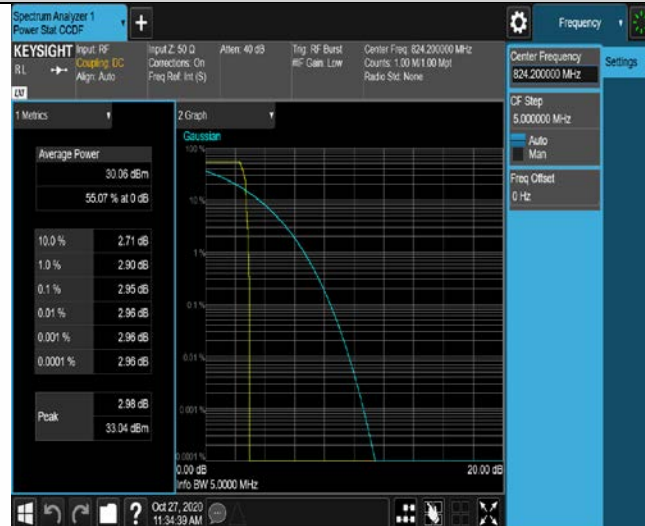
Test Result

Band	Channel	PCL	Result(dB)	Limit(dB)	Verdict
GPRS850	128	3	2.95	13	PASS
GPRS850	190	3	2.91	13	PASS
GPRS850	251	3	2.9	13	PASS
GPRS1900	512	0	2.76	13	PASS
GPRS1900	661	0	2.76	13	PASS
GPRS1900	810	0	2.76	13	PASS



Test Graphs

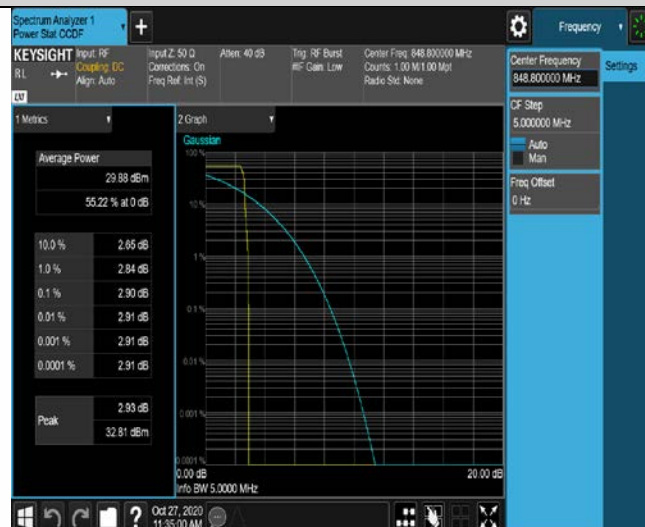
GPRS850-128



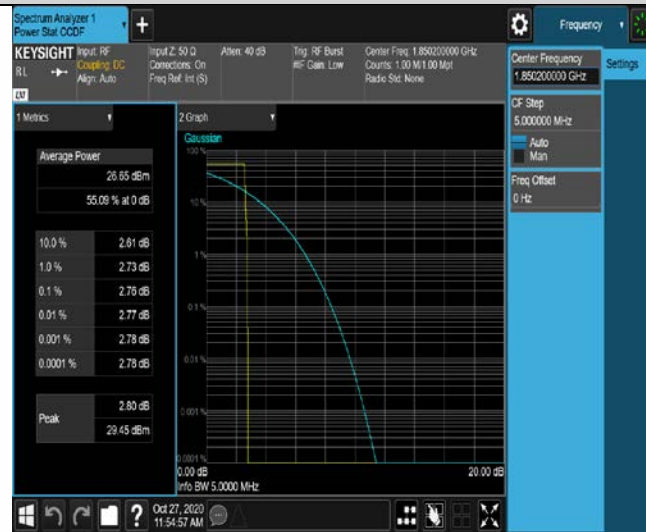
GPRS850-190



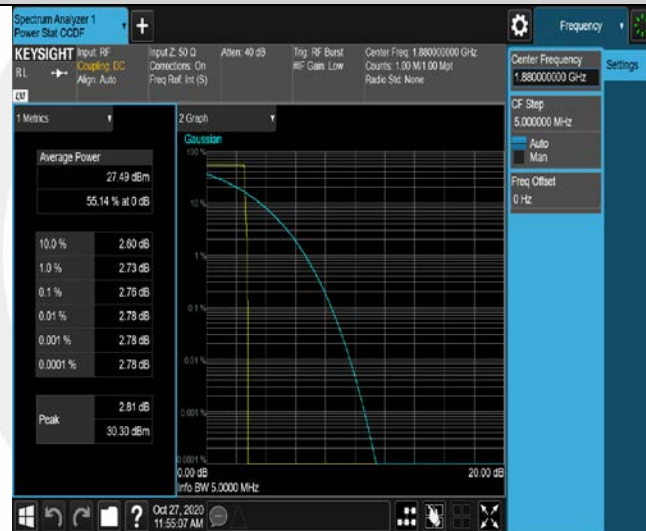
GPRS850-251



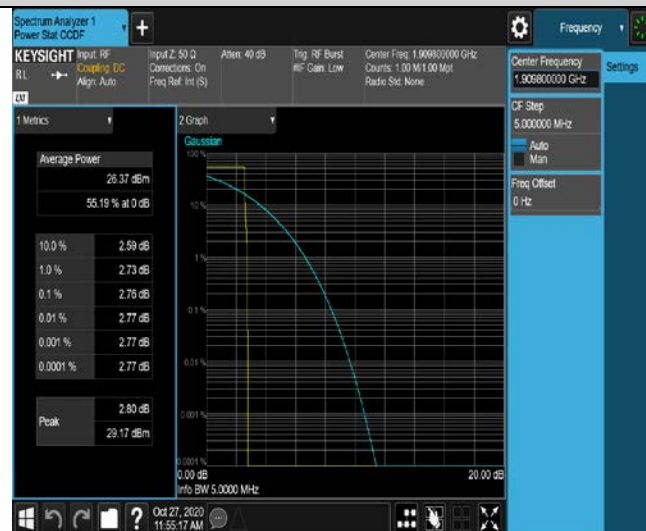
GPRS1900-512



GPRS1900-661



GPRS1900-810



Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GPRS850	128	3	0.24178	0.3128	---	PASS
GPRS850	190	3	0.24295	0.3099	---	PASS
GPRS850	251	3	0.24201	0.3117	---	PASS
GPRS1900	512	0	0.24557	0.3133	---	PASS
GPRS1900	661	0	0.24446	0.3186	---	PASS
GPRS1900	810	0	0.24418	0.3119	---	PASS

Test Graphs

GPRS850-128



GPRS850-190



GPRS850-251



GPRS1900-512



GPRS1900-661



GPRS1900-810



Appendix D: Band Edge

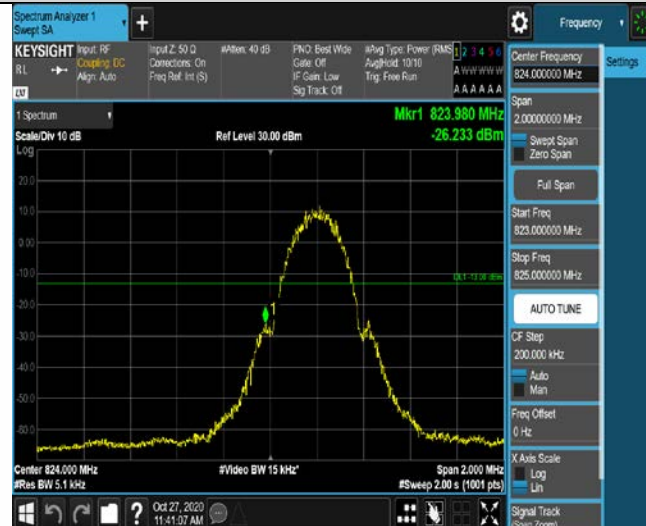
Test Result

Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GPRS850	128	3	823.98	-25.76	-13	PASS
GPRS850	251	3	849.02	-24.16	-13	PASS
GPRS1900	512	0	1849.98	-27.99	-13	PASS
GPRS1900	810	0	1910.02	-28.10	-13	PASS

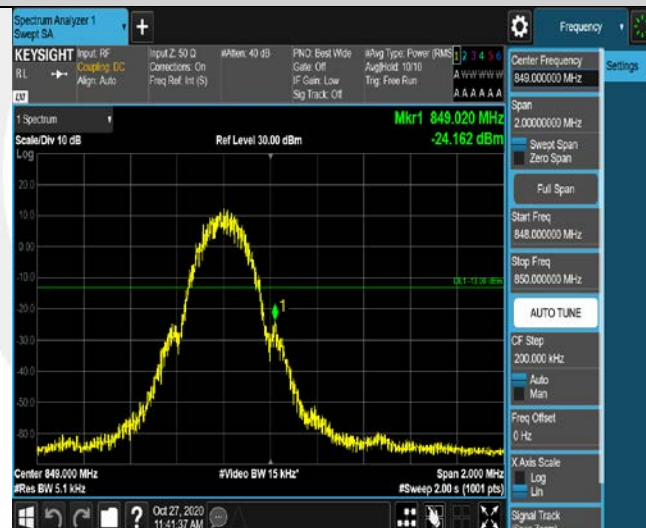


Test Graphs

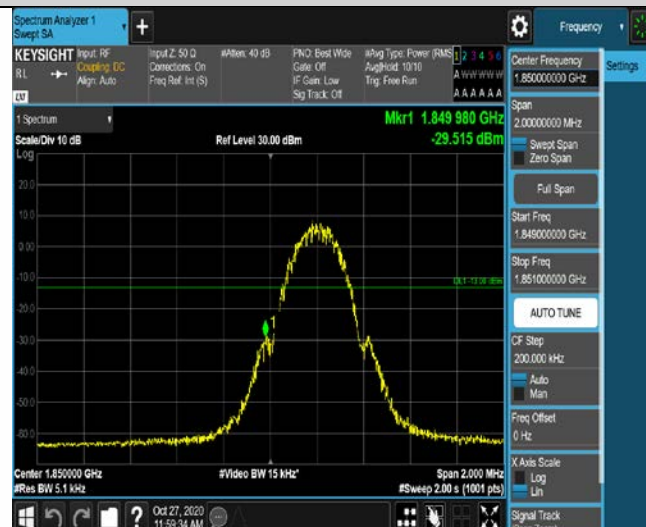
GPRS850-128



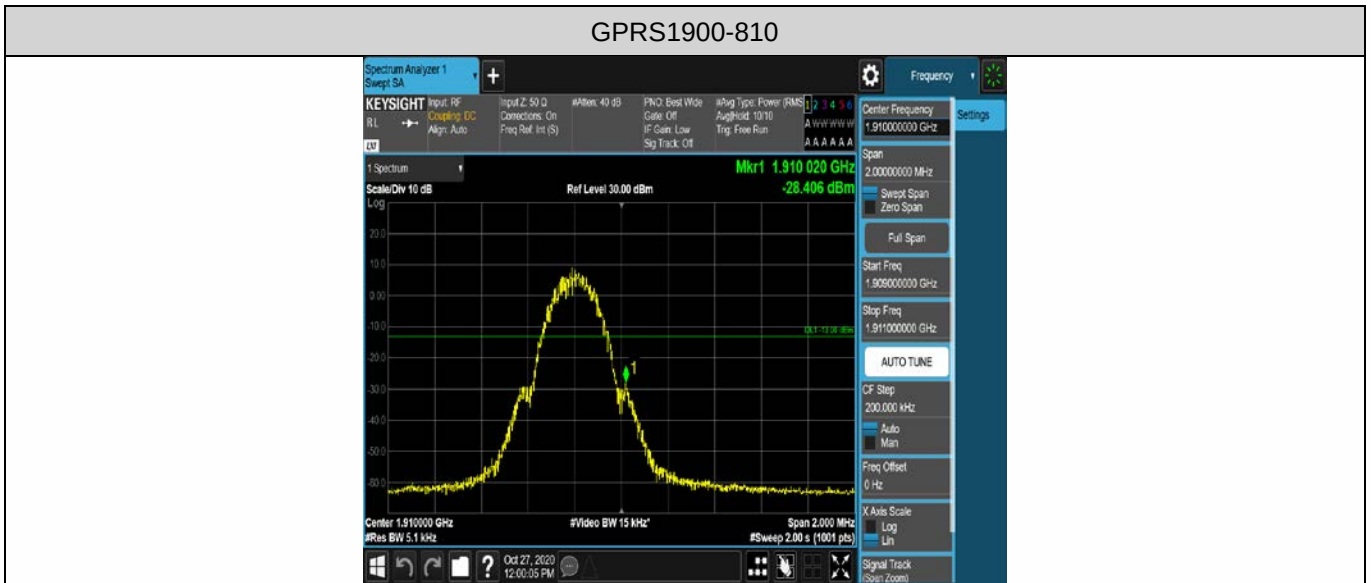
GPRS850-251



GPRS1900-512



GPRS1900-810



Appendix E: Conducted Spurious Emission

Test Result

Band	Channel	PCL	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GPRS850	128	3	0.009~0.15MHz	0.01	-54.35	-33	PASS
GPRS850	128	3	0.15~30MHz	0.29	-54.8	-13	PASS
GPRS850	128	3	30~1000MHz	949.75	-32.06	-13	PASS
GPRS850	128	3	1000~3000MHz	2771.93	-34.58	-13	PASS
GPRS850	128	3	3000~10000MHz	9804.7	-46.12	-13	PASS
GPRS850	190	3	0.009~0.15MHz	0.01	-53.19	-33	PASS
GPRS850	190	3	0.15~30MHz	0.31	-55.21	-13	PASS
GPRS850	190	3	30~1000MHz	944.39	-32.58	-13	PASS
GPRS850	190	3	1000~3000MHz	2760.2	-34.63	-13	PASS
GPRS850	190	3	3000~10000MHz	9772.97	-46.01	-13	PASS
GPRS850	251	3	0.009~0.15MHz	0.01	-53.36	-33	PASS
GPRS850	251	3	0.15~30MHz	0.3	-55.81	-13	PASS
GPRS850	251	3	30~1000MHz	981.15	-32.9	-13	PASS
GPRS850	251	3	1000~3000MHz	2997.47	-34.72	-13	PASS
GPRS850	251	3	3000~10000MHz	9770.17	-46.12	-13	PASS
GPRS1900	512	0	0.009~0.15MHz	0.01	-57.01	-43	PASS
GPRS1900	512	0	0.15~30MHz	0.29	-54.27	-23	PASS
GPRS1900	512	0	30~1000MHz	951.92	-31.52	-13	PASS
GPRS1900	512	0	1000~3000MHz	2774.73	-35.19	-13	PASS
GPRS1900	512	0	3000~10000MHz	9727.23	-46	-13	PASS
GPRS1900	512	0	10000~18000MHz	17987.47	-38.11	-13	PASS
GPRS1900	661	0	0.009~0.15MHz	0.01	-56.08	-43	PASS
GPRS1900	661	0	0.15~30MHz	0.29	-54.07	-23	PASS
GPRS1900	661	0	30~1000MHz	890.52	-31.09	-13	PASS
GPRS1900	661	0	1000~3000MHz	2784.4	-35.34	-13	PASS
GPRS1900	661	0	3000~10000MHz	9790.47	-46.07	-13	PASS
GPRS1900	661	0	10000~18000MHz	17972.8	-38.51	-13	PASS
GPRS1900	810	0	0.009~0.15MHz	0.01	-56.97	-43	PASS
GPRS1900	810	0	0.15~30MHz	0.31	-54.37	-23	PASS
GPRS1900	810	0	30~1000MHz	986.45	-32.45	-13	PASS
GPRS1900	810	0	1000~3000MHz	2611.73	-35.15	-13	PASS

GPRS1900	810	0	3000~10000MHz	9809.6	-46.07	-13	PASS
GPRS1900	810	0	10000~18000MHz	17997.07	-38.53	-13	PASS



Test Graphs

GPRS850-128-0.009~0.15MHz



GPRS850-128-0.15~30MHz



GPRS850-128-30~1000MHz



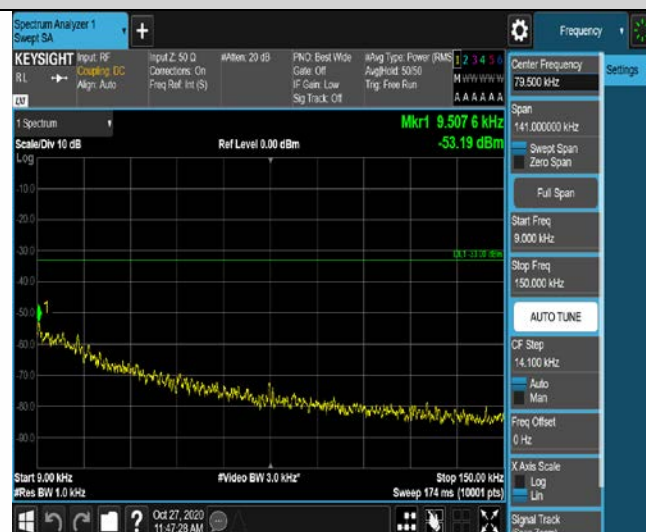
GPRS850-128-1000~3000MHz



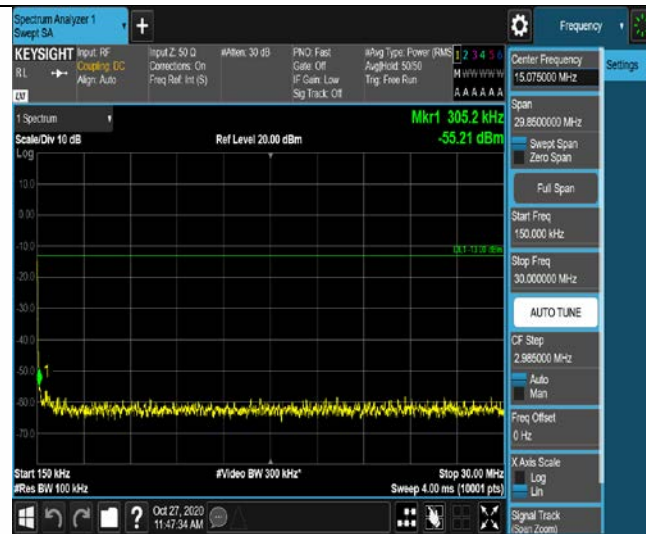
GPRS850-128-3000~10000MHz



GPRS850-190-0.009~0.15MHz



GPRS850-190-0.15~30MHz



GPRS850-190-30~1000MHz



GPRS850-190-1000~3000MHz



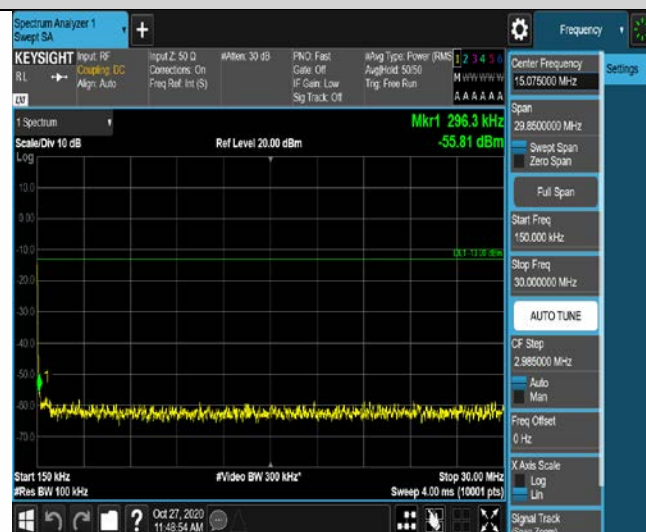
GPRS850-190-3000~10000MHz



GPRS850-251-0.009~0.15MHz



GPRS850-251-0.15~30MHz



GPRS850-251-30~1000MHz



GPRS850-251-1000~3000MHz



GPRS850-251-3000~10000MHz



GPRS1900-512-0.009~0.15MHz



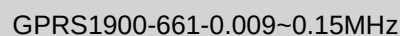
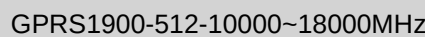
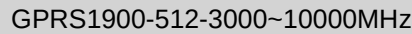
GPRS1900-512-0.15~30MHz



GPRS1900-512-30~1000MHz

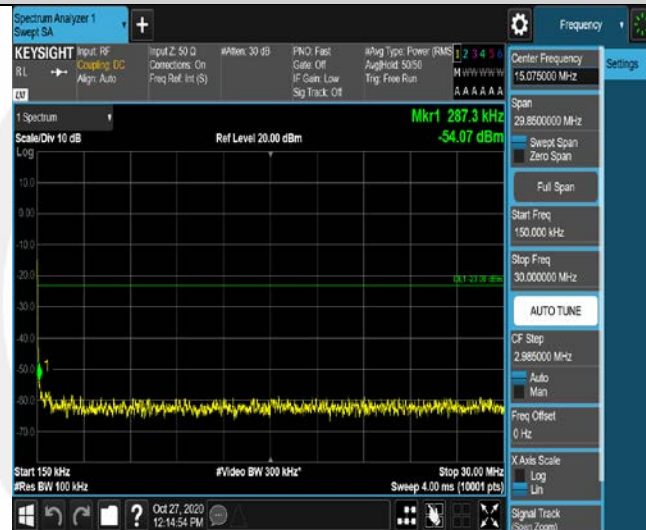


GPRS1900-512-1000~3000MHz





GPRS1900-661-0.15~30MHz



GPRS1900-661-30~1000MHz



GPRS1900-661-1000~3000MHz



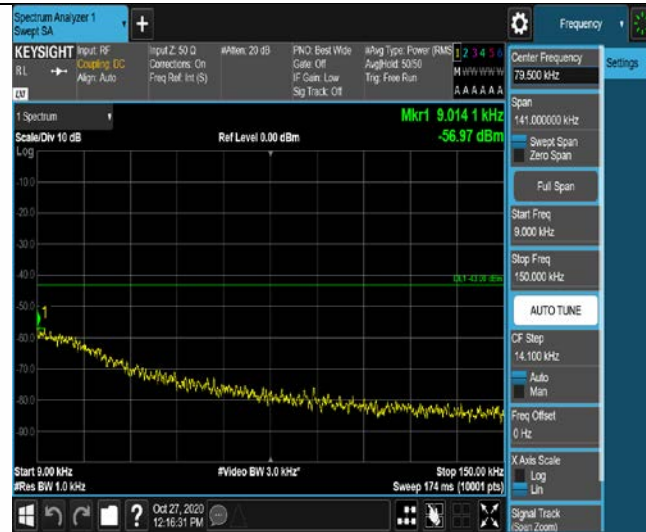
GPRS1900-661-3000~10000MHz



GPRS1900-661-10000~18000MHz



GPRS1900-810-0.009~0.15MHz



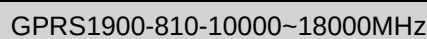
GPRS1900-810-0.15~30MHz



GPRS1900-810-30~1000MHz



GPRS1900-810-1000~3000MHz



Appendix F: Frequency Stability

Test Result

Voltage								
Band	Channel	PCL	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GPRS850	128	3	VL	NT	15.27	0.018527	±2.5	PASS
GPRS850	128	3	VN	NT	11.82	0.014341	±2.5	PASS
GPRS850	128	3	VH	NT	13.59	0.016489	±2.5	PASS
GPRS850	190	3	VL	NT	11.49	0.013734	±2.5	PASS
GPRS850	190	3	VN	NT	9.23	0.011033	±2.5	PASS
GPRS850	190	3	VH	NT	10.36	0.012383	±2.5	PASS
GPRS850	251	3	VL	NT	11.14	0.013124	±2.5	PASS
GPRS850	251	3	VN	NT	9.81	0.011557	±2.5	PASS
GPRS850	251	3	VH	NT	11.66	0.013737	±2.5	PASS
GPRS1900	512	0	VL	NT	12.49	0.006751	±2.5	PASS
GPRS1900	512	0	VN	NT	13.43	0.007259	±2.5	PASS
GPRS1900	512	0	VH	NT	11.17	0.006037	±2.5	PASS
GPRS1900	661	0	VL	NT	11.01	0.005856	±2.5	PASS
GPRS1900	661	0	VN	NT	10.40	0.005532	±2.5	PASS
GPRS1900	661	0	VH	NT	14.37	0.007644	±2.5	PASS
GPRS1900	810	0	VL	NT	17.31	0.009064	±2.5	PASS
GPRS1900	810	0	VN	NT	13.66	0.007153	±2.5	PASS
GPRS1900	810	0	VH	NT	13.46	0.007048	±2.5	PASS

Temperature								
Band	Channel	PCL	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GPRS850	128	3	NV	-30	13.66	0.016574	±2.5	PASS
GPRS850	128	3	NV	-20	13.72	0.016646	±2.5	PASS
GPRS850	128	3	NV	-10	14.72	0.017860	±2.5	PASS
GPRS850	128	3	NV	0	13.92	0.016889	±2.5	PASS
GPRS850	128	3	NV	10	12.20	0.014802	±2.5	PASS
GPRS850	128	3	NV	20	14.79	0.017945	±2.5	PASS
GPRS850	128	3	NV	30	12.43	0.015081	±2.5	PASS

GPRS850	128	3	NV	40	14.66	0.017787	±2.5	PASS
GPRS850	128	3	NV	50	10.11	0.012266	±2.5	PASS
GPRS850	190	3	NV	-30	12.01	0.014356	±2.5	PASS
GPRS850	190	3	NV	-20	12.46	0.014894	±2.5	PASS
GPRS850	190	3	NV	-10	9.81	0.011726	±2.5	PASS
GPRS850	190	3	NV	0	10.20	0.012192	±2.5	PASS
GPRS850	190	3	NV	10	8.85	0.010579	±2.5	PASS
GPRS850	190	3	NV	20	10.27	0.012276	±2.5	PASS
GPRS850	190	3	NV	30	13.27	0.015862	±2.5	PASS
GPRS850	190	3	NV	40	11.53	0.013782	±2.5	PASS
GPRS850	190	3	NV	50	12.53	0.014977	±2.5	PASS
GPRS850	251	3	NV	-30	9.94	0.011711	±2.5	PASS
GPRS850	251	3	NV	-20	9.07	0.010686	±2.5	PASS
GPRS850	251	3	NV	-10	9.62	0.011334	±2.5	PASS
GPRS850	251	3	NV	0	8.75	0.010309	±2.5	PASS
GPRS850	251	3	NV	10	9.10	0.010721	±2.5	PASS
GPRS850	251	3	NV	20	9.33	0.010992	±2.5	PASS
GPRS850	251	3	NV	30	9.36	0.011027	±2.5	PASS
GPRS850	251	3	NV	40	9.20	0.010839	±2.5	PASS
GPRS850	251	3	NV	50	9.43	0.011110	±2.5	PASS
GPRS1900	512	0	NV	-30	9.62	0.005199	±2.5	PASS
GPRS1900	512	0	NV	-20	9.40	0.005081	±2.5	PASS
GPRS1900	512	0	NV	-10	12.04	0.006507	±2.5	PASS
GPRS1900	512	0	NV	0	12.49	0.006751	±2.5	PASS
GPRS1900	512	0	NV	10	12.53	0.006772	±2.5	PASS
GPRS1900	512	0	NV	20	11.33	0.006124	±2.5	PASS
GPRS1900	512	0	NV	30	11.24	0.006075	±2.5	PASS
GPRS1900	512	0	NV	40	11.46	0.006194	±2.5	PASS
GPRS1900	512	0	NV	50	10.94	0.005913	±2.5	PASS
GPRS1900	661	0	NV	-30	9.07	0.004824	±2.5	PASS
GPRS1900	661	0	NV	-20	11.95	0.006356	±2.5	PASS
GPRS1900	661	0	NV	-10	11.33	0.006027	±2.5	PASS
GPRS1900	661	0	NV	0	7.94	0.004223	±2.5	PASS
GPRS1900	661	0	NV	10	10.72	0.005702	±2.5	PASS
GPRS1900	661	0	NV	20	11.20	0.005957	±2.5	PASS
GPRS1900	661	0	NV	30	12.82	0.006819	±2.5	PASS

GPRS1900	661	0	NV	40	11.56	0.006149	±2.5	PASS
GPRS1900	661	0	NV	50	13.27	0.007059	±2.5	PASS
GPRS1900	810	0	NV	-30	15.82	0.008284	±2.5	PASS
GPRS1900	810	0	NV	-20	15.34	0.008032	±2.5	PASS
GPRS1900	810	0	NV	-10	16.43	0.008603	±2.5	PASS
GPRS1900	810	0	NV	0	14.14	0.007404	±2.5	PASS
GPRS1900	810	0	NV	10	18.18	0.009519	±2.5	PASS
GPRS1900	810	0	NV	20	15.01	0.007859	±2.5	PASS
GPRS1900	810	0	NV	30	14.04	0.007352	±2.5	PASS
GPRS1900	810	0	NV	40	18.21	0.009535	±2.5	PASS
GPRS1900	810	0	NV	50	12.20	0.006388	±2.5	PASS

END OF REPORT