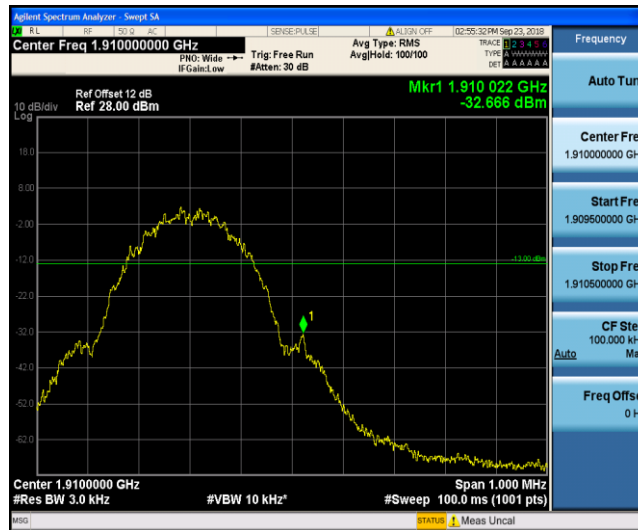


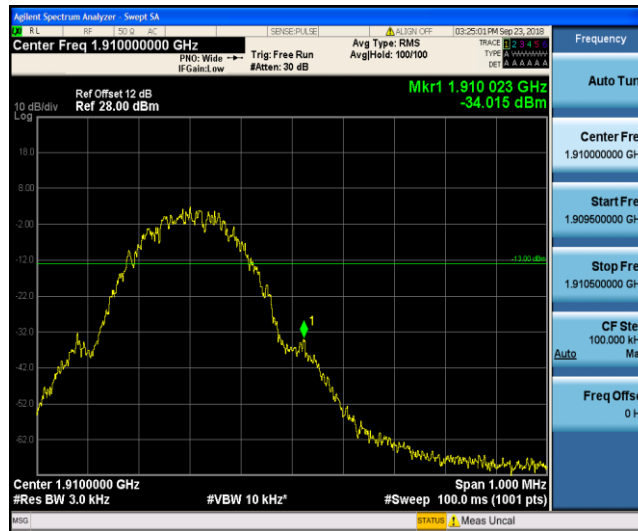
GSM1900_512



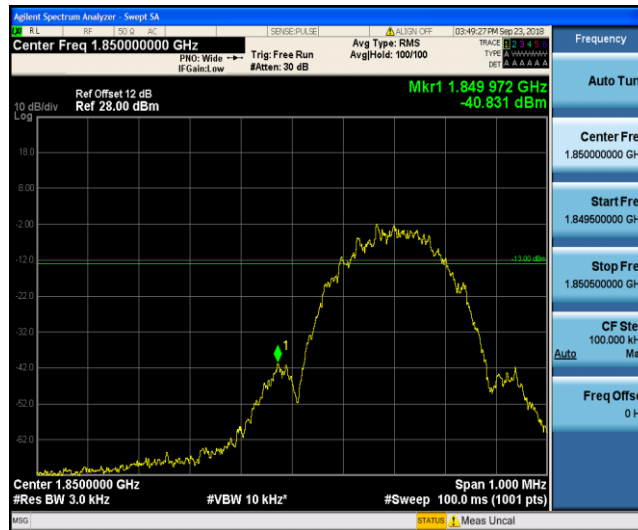
GSM1900_810



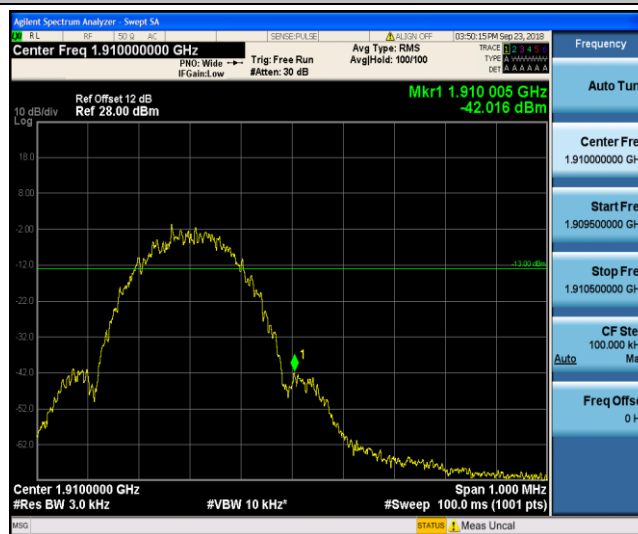
GPRS1900_512



GPRS1900_810



EGPRS1900_512



EGPRS1900_810



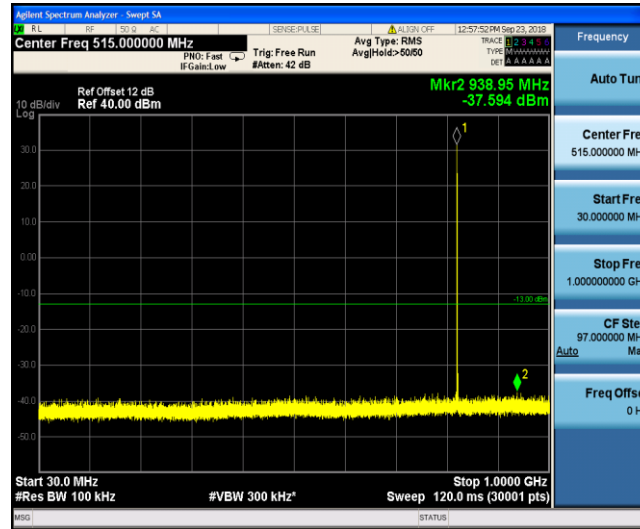
8.5 Appendix E: Conducted Spurious Emission

Test Result

Band	Channel	Frequency Rang(Mhz)	Value(dBm)	Limit(dBm)	Verdict
GSM850	128	30~1000	-37.59	-13	PASS
GSM850	128	1000~10000	-33.58	-13	PASS
GSM850	190	30~1000	-36.84	-13	PASS
GSM850	190	1000~10000	-33.67	-13	PASS
GSM850	251	30~1000	-37.08	-13	PASS
GSM850	251	1000~10000	-33.55	-13	PASS
GPRS850	128	30~1000	-37.85	-13	PASS
GPRS850	128	1000~10000	-33.63	-13	PASS
GPRS850	190	30~1000	-37.44	-13	PASS
GPRS850	190	1000~10000	-33.58	-13	PASS
GPRS850	251	30~1000	-37.56	-13	PASS
GPRS850	251	1000~10000	-33.62	-13	PASS
EGPRS850	128	30~1000	-37.24	-13	PASS
EGPRS850	128	1000~10000	-33.55	-13	PASS
EGPRS850	190	30~1000	-36.59	-13	PASS
EGPRS850	190	1000~10000	-33.59	-13	PASS
EGPRS850	251	30~1000	-37.03	-13	PASS
EGPRS850	251	1000~10000	-33.59	-13	PASS
GSM1900	512	30~1000	-37.80	-13	PASS
GSM1900	512	1000~20000	-26.86	-13	PASS
GSM1900	661	30~1000	-37.09	-13	PASS
GSM1900	661	1000~20000	-26.75	-13	PASS
GSM1900	810	30~1000	-36.59	-13	PASS
GSM1900	810	1000~20000	-26.98	-13	PASS
GPRS1900	512	30~1000	-36.61	-13	PASS
GPRS1900	512	1000~20000	-27.18	-13	PASS
GPRS1900	661	30~1000	-37.47	-13	PASS
GPRS1900	661	1000~20000	-27.05	-13	PASS
GPRS1900	810	30~1000	-37.22	-13	PASS
GPRS1900	810	1000~20000	-27.05	-13	PASS
EGPRS1900	512	30~1000	-37.50	-13	PASS
EGPRS1900	512	1000~20000	-27.03	-13	PASS
EGPRS1900	661	30~1000	-36.80	-13	PASS
EGPRS1900	661	1000~20000	-27.04	-13	PASS
EGPRS1900	810	30~1000	-37.76	-13	PASS
EGPRS1900	810	1000~20000	-26.97	-13	PASS



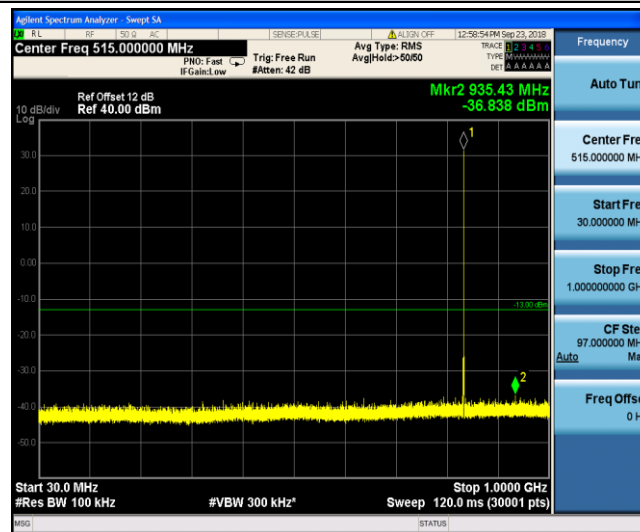
Test Graphs



GSM850_128



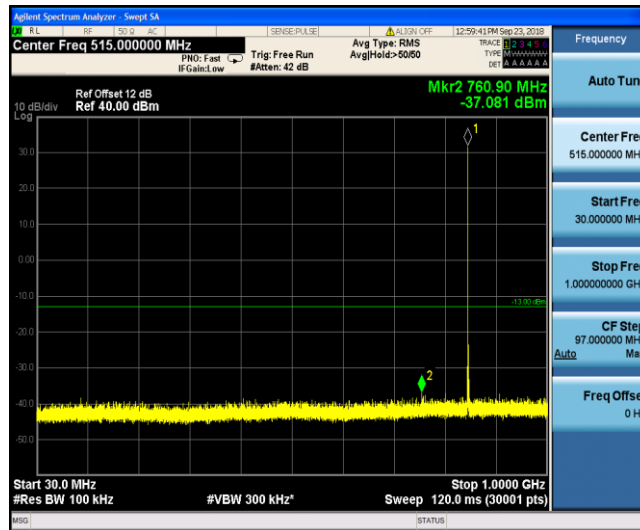
GSM850_128



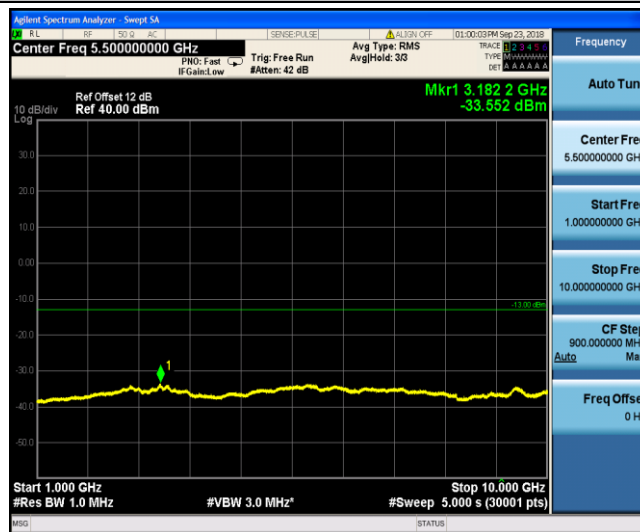
GSM850_190



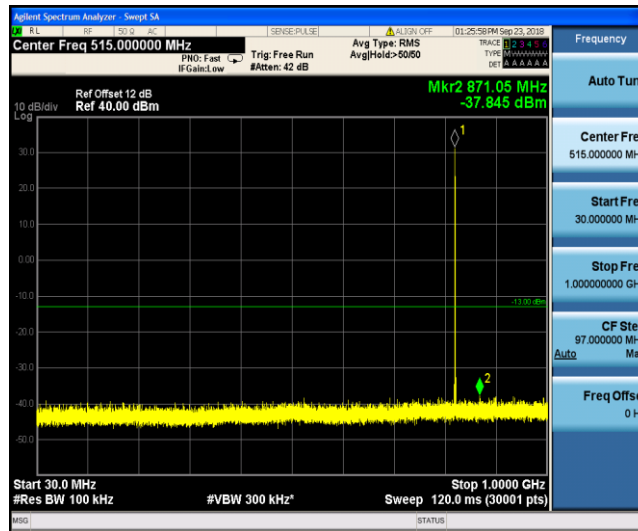
GSM850_190



GSM850_251



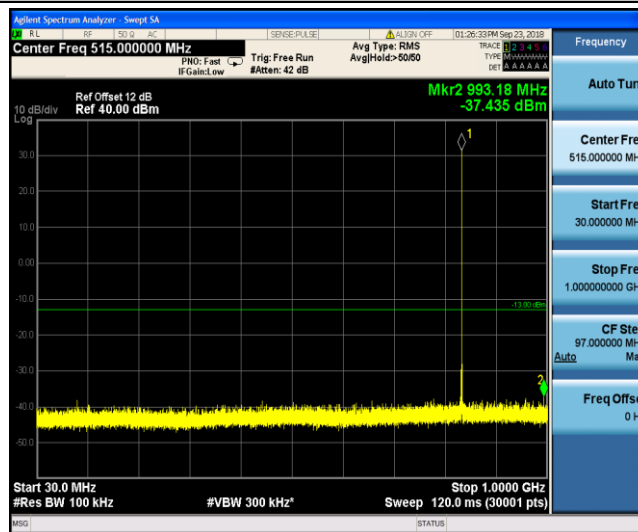
GSM850_251



GPRS850_128



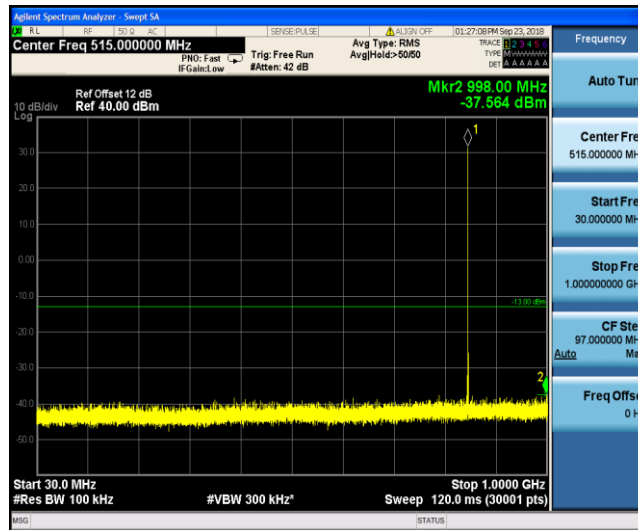
GPRS850_128



GPRS850_190



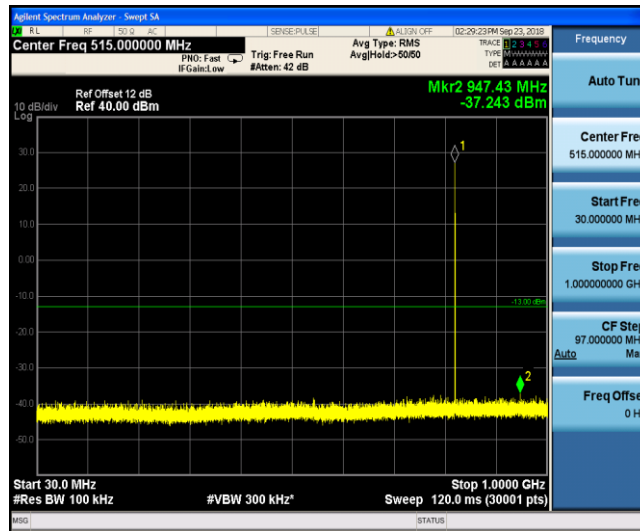
GPRS850_190



GPRS850_251



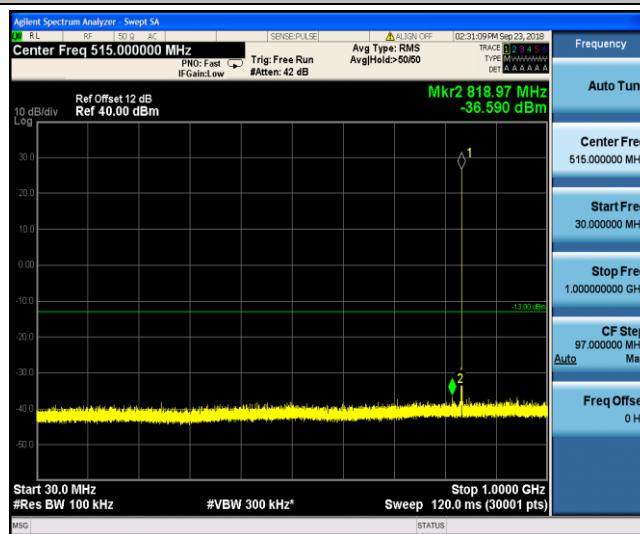
GPRS850_251



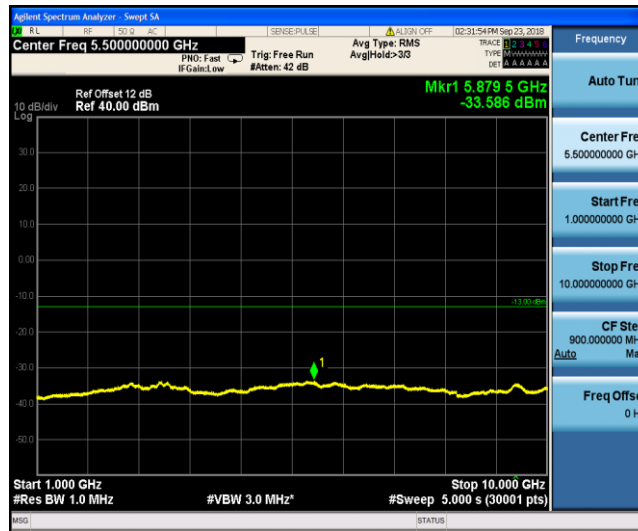
EGPRS850_128



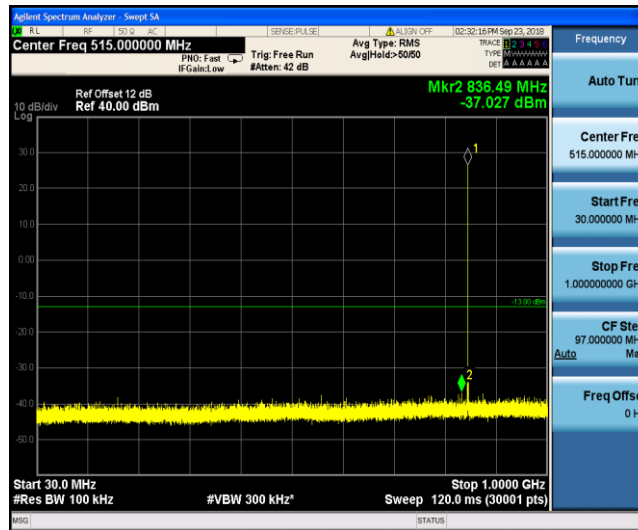
EGPRS850_128



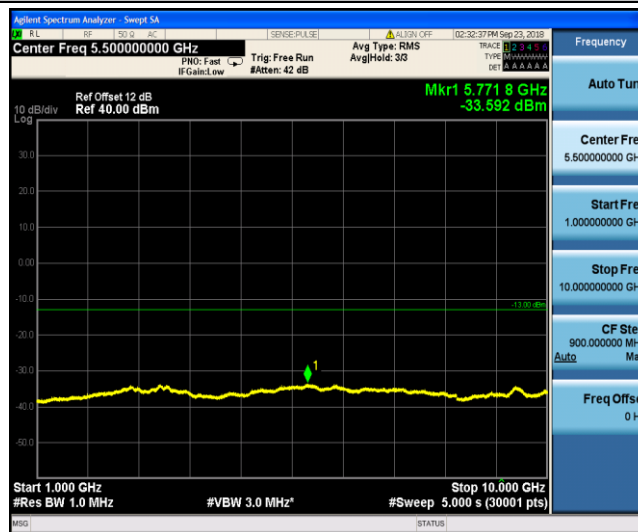
EGPRS850_190



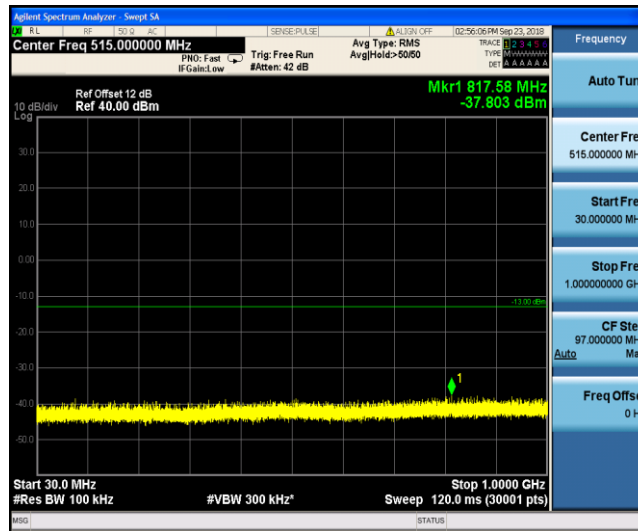
EGPRS850_190



EGPRS850_251



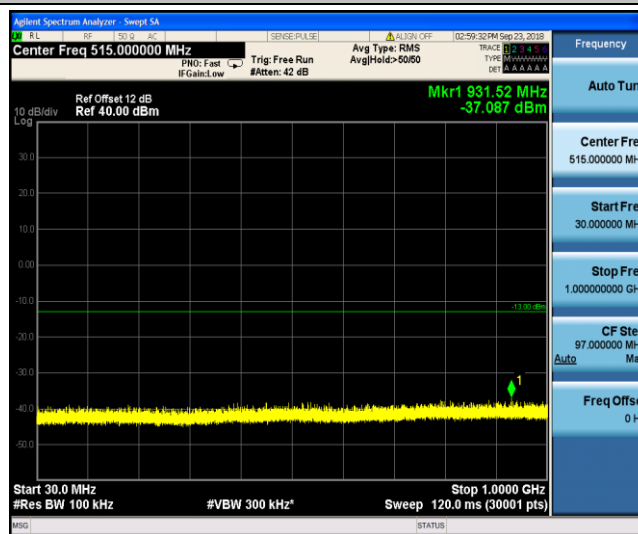
EGPRS850_251



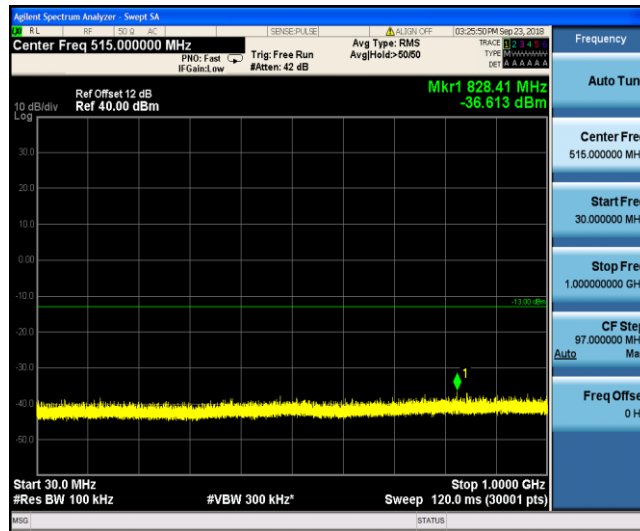
GSM1900_512



GSM1900_512



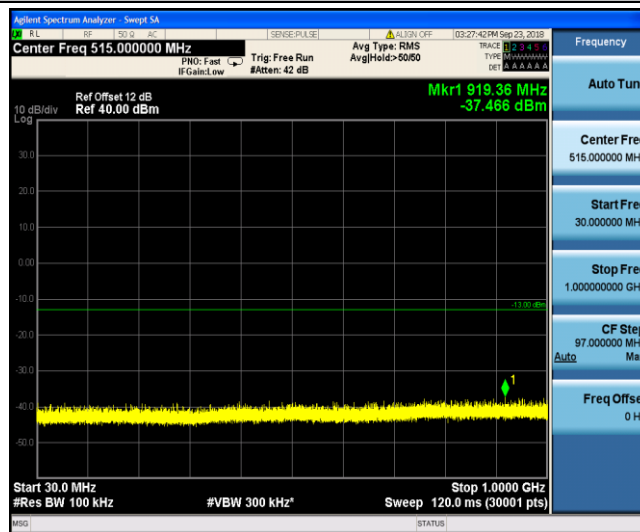
GSM1900_661



GPRS1900_512



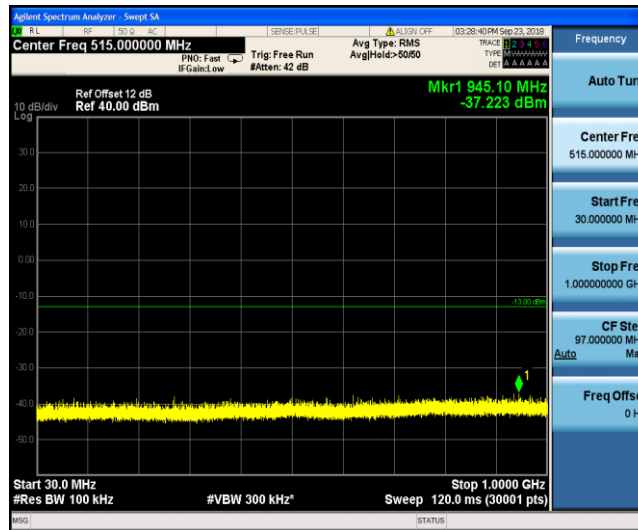
GPRS1900_512



GPRS1900_661



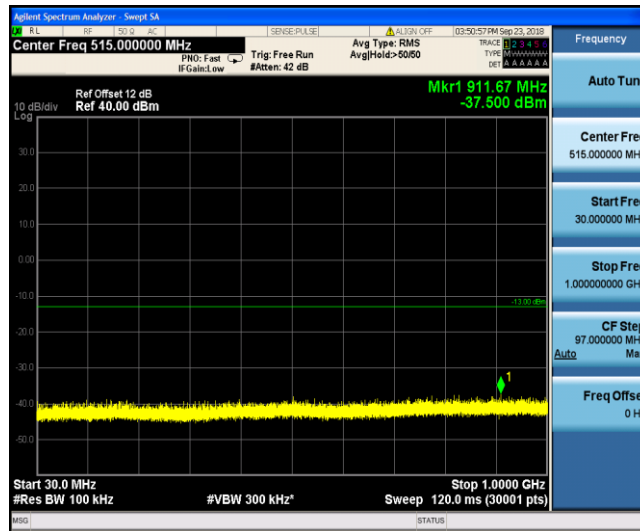
GPRS1900_661



GPRS1900_810



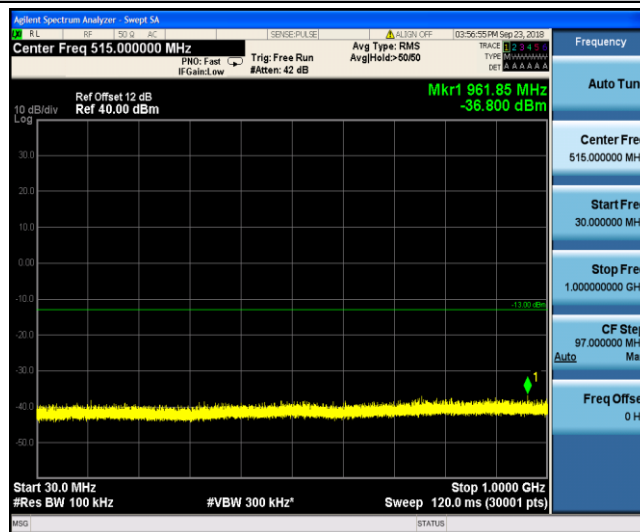
GPRS1900_810



EGPRS1900_512



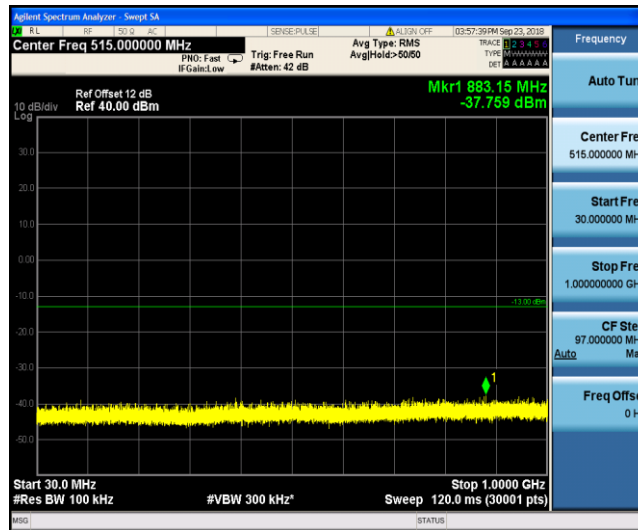
EGPRS1900_512



EGPRS1900_661



EGPRS1900_661



EGPRS1900_810



EGPRS1900_810



8.6 Appendix F: Frequency Stability

Test Result

Voltage							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	VL	TN	2.52	0.003055	2.5	PASS
GSM850	128	VN	TN	5.07	0.006150	2.5	PASS
GSM850	128	VH	TN	0.29	0.000353	2.5	PASS
GSM850	190	VL	TN	8.72	0.010420	2.5	PASS
GSM850	190	VN	TN	2.29	0.002740	2.5	PASS
GSM850	190	VH	TN	4.07	0.004863	2.5	PASS
GSM850	251	VL	TN	3.03	0.003575	2.5	PASS
GSM850	251	VN	TN	3.84	0.004526	2.5	PASS
GSM850	251	VH	TN	4.49	0.005287	2.5	PASS
GPRS850	128	VL	TN	13.14	0.015943	2.5	PASS
GPRS850	128	VN	TN	14.79	0.017941	2.5	PASS
GPRS850	128	VH	TN	17.40	0.021114	2.5	PASS
GPRS850	190	VL	TN	15.08	0.018022	2.5	PASS
GPRS850	190	VN	TN	17.01	0.020338	2.5	PASS
GPRS850	190	VH	TN	16.50	0.019720	2.5	PASS
GPRS850	251	VL	TN	15.37	0.018106	2.5	PASS
GPRS850	251	VN	TN	15.37	0.018106	2.5	PASS
GPRS850	251	VH	TN	14.59	0.017193	2.5	PASS
EGPRS850	128	VL	TN	22.34	0.027107	2.5	PASS
EGPRS850	128	VN	TN	17.92	0.021741	2.5	PASS
EGPRS850	128	VH	TN	21.76	0.026402	2.5	PASS
EGPRS850	190	VL	TN	21.63	0.025856	2.5	PASS
EGPRS850	190	VN	TN	21.66	0.025895	2.5	PASS
EGPRS850	190	VH	TN	20.53	0.024544	2.5	PASS
EGPRS850	251	VL	TN	21.66	0.025523	2.5	PASS
EGPRS850	251	VN	TN	21.92	0.025827	2.5	PASS
EGPRS850	251	VH	TN	19.82	0.023355	2.5	PASS
GSM1900	512	VL	TN	-1.94	-0.001047	2.5	PASS
GSM1900	512	VN	TN	-6.46	-0.003490	2.5	PASS
GSM1900	512	VH	TN	-8.88	-0.004799	2.5	PASS
GSM1900	661	VL	TN	-4.10	-0.002181	2.5	PASS
GSM1900	661	VN	TN	-6.33	-0.003366	2.5	PASS
GSM1900	661	VH	TN	-5.55	-0.002954	2.5	PASS
GSM1900	810	VL	TN	-4.68	-0.002451	2.5	PASS
GSM1900	810	VN	TN	-5.94	-0.003111	2.5	PASS
GSM1900	810	VH	TN	-2.42	-0.001268	2.5	PASS
GPRS1900	512	VL	TN	5.59	0.003019	2.5	PASS
GPRS1900	512	VN	TN	9.62	0.005200	2.5	PASS
GPRS1900	512	VH	TN	7.52	0.004066	2.5	PASS
GPRS1900	661	VL	TN	3.00	0.001597	2.5	PASS
GPRS1900	661	VN	TN	8.10	0.004311	2.5	PASS
GPRS1900	661	VH	TN	11.17	0.005942	2.5	PASS
GPRS1900	810	VL	TN	8.52	0.004463	2.5	PASS
GPRS1900	810	VN	TN	4.10	0.002147	2.5	PASS
GPRS1900	810	VH	TN	1.13	0.000592	2.5	PASS
EGPRS1900	512	VL	TN	11.24	0.006073	2.5	PASS
EGPRS1900	512	VN	TN	12.07	0.006526	2.5	PASS
EGPRS1900	512	VH	TN	15.08	0.008149	2.5	PASS



EGPRS1900	661	VL	TN	98.12	0.052190	2.5	PASS
EGPRS1900	661	VN	TN	14.30	0.007608	2.5	PASS
EGPRS1900	661	VH	TN	15.53	0.008260	2.5	PASS
EGPRS1900	810	VL	TN	10.04	0.005258	2.5	PASS
EGPRS1900	810	VN	TN	6.68	0.003499	2.5	PASS
EGPRS1900	810	VH	TN	9.65	0.005055	2.5	PASS



Temperature							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	VN	-30	5.49	0.006659	2.5	PASS
GSM850	128	VN	-20	2.23	0.002703	2.5	PASS
GSM850	128	VN	-10	1.87	0.002272	2.5	PASS
GSM850	128	VN	0	-1.32	-0.001606	2.5	PASS
GSM850	128	VN	10	-0.26	-0.000313	2.5	PASS
GSM850	128	VN	20	0.26	0.000313	2.5	PASS
GSM850	128	VN	30	2.23	0.002703	2.5	PASS
GSM850	128	VN	40	7.01	0.008500	2.5	PASS
GSM850	128	VN	50	3.68	0.004466	2.5	PASS
GSM850	190	VN	-30	1.45	0.001737	2.5	PASS
GSM850	190	VN	-20	2.26	0.002701	2.5	PASS
GSM850	190	VN	-10	-0.58	-0.000695	2.5	PASS
GSM850	190	VN	0	4.39	0.005248	2.5	PASS
GSM850	190	VN	10	1.36	0.001621	2.5	PASS
GSM850	190	VN	20	3.03	0.003628	2.5	PASS
GSM850	190	VN	30	1.61	0.001930	2.5	PASS
GSM850	190	VN	40	4.55	0.005441	2.5	PASS
GSM850	190	VN	50	5.10	0.006097	2.5	PASS
GSM850	251	VN	-30	-0.94	-0.001103	2.5	PASS
GSM850	251	VN	-20	0.52	0.000609	2.5	PASS
GSM850	251	VN	-10	5.94	0.006999	2.5	PASS
GSM850	251	VN	0	1.00	0.001179	2.5	PASS
GSM850	251	VN	10	8.23	0.009699	2.5	PASS
GSM850	251	VN	20	2.87	0.003385	2.5	PASS
GSM850	251	VN	30	3.55	0.004184	2.5	PASS
GSM850	251	VN	40	3.00	0.003537	2.5	PASS
GSM850	251	VN	50	1.26	0.001483	2.5	PASS
GPRS850	128	VN	-30	14.59	0.017706	2.5	PASS
GPRS850	128	VN	-20	17.37	0.021075	2.5	PASS
GPRS850	128	VN	-10	17.60	0.021349	2.5	PASS
GPRS850	128	VN	0	15.53	0.018842	2.5	PASS
GPRS850	128	VN	10	14.14	0.017157	2.5	PASS
GPRS850	128	VN	20	14.37	0.017432	2.5	PASS
GPRS850	128	VN	30	17.95	0.021780	2.5	PASS
GPRS850	128	VN	40	15.92	0.019312	2.5	PASS
GPRS850	128	VN	50	14.30	0.017353	2.5	PASS
GPRS850	190	VN	-30	17.60	0.021033	2.5	PASS
GPRS850	190	VN	-20	14.43	0.017251	2.5	PASS
GPRS850	190	VN	-10	15.88	0.018987	2.5	PASS
GPRS850	190	VN	0	18.34	0.021920	2.5	PASS
GPRS850	190	VN	10	17.18	0.020531	2.5	PASS
GPRS850	190	VN	20	16.34	0.019527	2.5	PASS
GPRS850	190	VN	30	16.50	0.019720	2.5	PASS
GPRS850	190	VN	40	15.95	0.019064	2.5	PASS
GPRS850	190	VN	50	17.50	0.020917	2.5	PASS
GPRS850	251	VN	-30	15.59	0.018372	2.5	PASS
GPRS850	251	VN	-20	15.95	0.018790	2.5	PASS
GPRS850	251	VN	-10	18.24	0.021491	2.5	PASS
GPRS850	251	VN	0	15.76	0.018562	2.5	PASS
GPRS850	251	VN	10	17.40	0.020502	2.5	PASS
GPRS850	251	VN	20	15.56	0.018334	2.5	PASS



GPRS850	251	VN	30	15.95	0.018790	2.5	PASS
GPRS850	251	VN	40	17.72	0.020882	2.5	PASS
GPRS850	251	VN	50	17.79	0.020958	2.5	PASS
EGPRS850	128	VN	-30	21.21	0.025736	2.5	PASS
EGPRS850	128	VN	-20	21.21	0.025736	2.5	PASS
EGPRS850	128	VN	-10	20.34	0.024679	2.5	PASS
EGPRS850	128	VN	0	20.95	0.025423	2.5	PASS
EGPRS850	128	VN	10	20.05	0.024326	2.5	PASS
EGPRS850	128	VN	20	19.79	0.024013	2.5	PASS
EGPRS850	128	VN	30	17.40	0.021114	2.5	PASS
EGPRS850	128	VN	40	18.50	0.022446	2.5	PASS
EGPRS850	128	VN	50	19.98	0.024248	2.5	PASS
EGPRS850	190	VN	-30	20.57	0.024583	2.5	PASS
EGPRS850	190	VN	-20	19.98	0.023888	2.5	PASS
EGPRS850	190	VN	-10	22.34	0.026705	2.5	PASS
EGPRS850	190	VN	0	21.99	0.026281	2.5	PASS
EGPRS850	190	VN	10	21.86	0.026127	2.5	PASS
EGPRS850	190	VN	20	22.05	0.026358	2.5	PASS
EGPRS850	190	VN	30	19.66	0.023502	2.5	PASS
EGPRS850	190	VN	40	21.28	0.025432	2.5	PASS
EGPRS850	190	VN	50	20.86	0.024930	2.5	PASS
EGPRS850	251	VN	-30	20.15	0.023735	2.5	PASS
EGPRS850	251	VN	-20	19.79	0.023317	2.5	PASS
EGPRS850	251	VN	-10	20.37	0.024001	2.5	PASS
EGPRS850	251	VN	0	20.31	0.023925	2.5	PASS
EGPRS850	251	VN	10	20.40	0.024039	2.5	PASS
EGPRS850	251	VN	20	19.31	0.022746	2.5	PASS
EGPRS850	251	VN	30	18.69	0.022023	2.5	PASS
EGPRS850	251	VN	40	18.08	0.021301	2.5	PASS
EGPRS850	251	VN	50	18.40	0.021681	2.5	PASS
GSM1900	512	VN	-30	-11.01	-0.005950	2.5	PASS
GSM1900	512	VN	-20	-8.10	-0.004380	2.5	PASS
GSM1900	512	VN	-10	-7.39	-0.003996	2.5	PASS
GSM1900	512	VN	0	-7.62	-0.004118	2.5	PASS
GSM1900	512	VN	10	-3.78	-0.002042	2.5	PASS
GSM1900	512	VN	20	-10.01	-0.005409	2.5	PASS
GSM1900	512	VN	30	-6.23	-0.003368	2.5	PASS
GSM1900	512	VN	40	-3.58	-0.001937	2.5	PASS
GSM1900	512	VN	50	-5.94	-0.003211	2.5	PASS
GSM1900	661	VN	-30	-4.58	-0.002439	2.5	PASS
GSM1900	661	VN	-20	-4.62	-0.002456	2.5	PASS
GSM1900	661	VN	-10	-3.45	-0.001838	2.5	PASS
GSM1900	661	VN	0	-9.56	-0.005083	2.5	PASS
GSM1900	661	VN	10	-2.36	-0.001254	2.5	PASS
GSM1900	661	VN	20	-3.81	-0.002026	2.5	PASS
GSM1900	661	VN	30	-7.68	-0.004087	2.5	PASS
GSM1900	661	VN	40	-6.68	-0.003555	2.5	PASS
GSM1900	661	VN	50	-8.43	-0.004482	2.5	PASS
GSM1900	810	VN	-30	-5.62	-0.002942	2.5	PASS
GSM1900	810	VN	-20	-7.17	-0.003753	2.5	PASS
GSM1900	810	VN	-10	-7.85	-0.004108	2.5	PASS
GSM1900	810	VN	0	-9.69	-0.005072	2.5	PASS
GSM1900	810	VN	10	-5.36	-0.002806	2.5	PASS
GSM1900	810	VN	20	-12.98	-0.006796	2.5	PASS
GSM1900	810	VN	30	-8.81	-0.004615	2.5	PASS



GSM1900	810	VN	40	-11.14	-0.005832	2.5	PASS
GSM1900	810	VN	50	-11.14	-0.005832	2.5	PASS
GPRS1900	512	VN	-30	10.33	0.005584	2.5	PASS
GPRS1900	512	VN	-20	6.81	0.003682	2.5	PASS
GPRS1900	512	VN	-10	7.01	0.003787	2.5	PASS
GPRS1900	512	VN	0	10.91	0.005898	2.5	PASS
GPRS1900	512	VN	10	6.30	0.003403	2.5	PASS
GPRS1900	512	VN	20	9.07	0.004903	2.5	PASS
GPRS1900	512	VN	30	7.04	0.003804	2.5	PASS
GPRS1900	512	VN	40	8.56	0.004624	2.5	PASS
GPRS1900	512	VN	50	6.97	0.003769	2.5	PASS
GPRS1900	661	VN	-30	10.82	0.005753	2.5	PASS
GPRS1900	661	VN	-20	9.33	0.004963	2.5	PASS
GPRS1900	661	VN	-10	10.85	0.005770	2.5	PASS
GPRS1900	661	VN	0	8.39	0.004465	2.5	PASS
GPRS1900	661	VN	10	9.46	0.005032	2.5	PASS
GPRS1900	661	VN	20	10.30	0.005478	2.5	PASS
GPRS1900	661	VN	30	8.68	0.004620	2.5	PASS
GPRS1900	661	VN	40	8.78	0.004671	2.5	PASS
GPRS1900	661	VN	50	7.72	0.004104	2.5	PASS
GPRS1900	810	VN	-30	2.74	0.001437	2.5	PASS
GPRS1900	810	VN	-20	7.01	0.003668	2.5	PASS
GPRS1900	810	VN	-10	4.84	0.002536	2.5	PASS
GPRS1900	810	VN	0	6.49	0.003398	2.5	PASS
GPRS1900	810	VN	10	6.26	0.003280	2.5	PASS
GPRS1900	810	VN	20	1.26	0.000659	2.5	PASS
GPRS1900	810	VN	30	1.23	0.000642	2.5	PASS
GPRS1900	810	VN	40	2.16	0.001133	2.5	PASS
GPRS1900	810	VN	50	4.46	0.002333	2.5	PASS
EGPRS1900	512	VN	-30	8.88	0.004799	2.5	PASS
EGPRS1900	512	VN	-20	9.75	0.005270	2.5	PASS
EGPRS1900	512	VN	-10	12.53	0.006771	2.5	PASS
EGPRS1900	512	VN	0	13.27	0.007172	2.5	PASS
EGPRS1900	512	VN	10	15.56	0.008411	2.5	PASS
EGPRS1900	512	VN	20	10.75	0.005811	2.5	PASS
EGPRS1900	512	VN	30	16.34	0.008830	2.5	PASS
EGPRS1900	512	VN	40	13.56	0.007329	2.5	PASS
EGPRS1900	512	VN	50	11.24	0.006073	2.5	PASS
EGPRS1900	661	VN	-30	15.34	0.008157	2.5	PASS
EGPRS1900	661	VN	-20	12.75	0.006783	2.5	PASS
EGPRS1900	661	VN	-10	14.27	0.007591	2.5	PASS
EGPRS1900	661	VN	0	14.40	0.007659	2.5	PASS
EGPRS1900	661	VN	10	14.88	0.007917	2.5	PASS
EGPRS1900	661	VN	20	14.33	0.007625	2.5	PASS
EGPRS1900	661	VN	30	13.40	0.007127	2.5	PASS
EGPRS1900	661	VN	40	14.66	0.007797	2.5	PASS
EGPRS1900	661	VN	50	12.88	0.006852	2.5	PASS
EGPRS1900	810	VN	-30	4.36	0.002282	2.5	PASS
EGPRS1900	810	VN	-20	12.04	0.006306	2.5	PASS
EGPRS1900	810	VN	-10	8.85	0.004632	2.5	PASS
EGPRS1900	810	VN	0	6.46	0.003381	2.5	PASS
EGPRS1900	810	VN	10	8.20	0.004294	2.5	PASS
EGPRS1900	810	VN	20	6.46	0.003381	2.5	PASS
EGPRS1900	810	VN	30	10.20	0.005342	2.5	PASS
EGPRS1900	810	VN	40	0.32	0.000169	2.5	PASS



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EGPRS1900	810	VN	50	5.23	0.002739	2.5	PASS
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