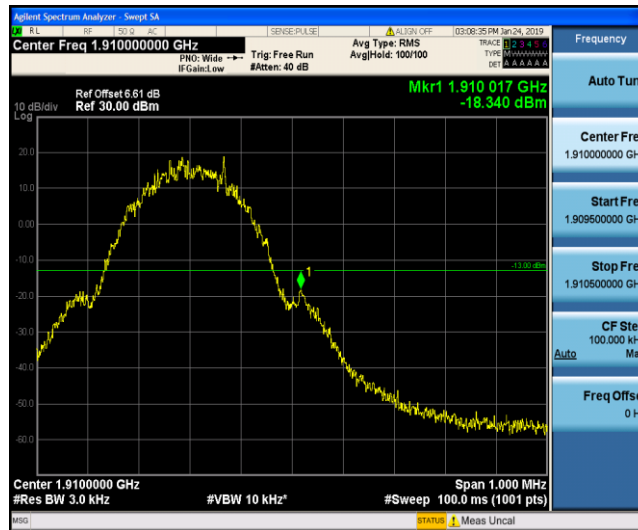
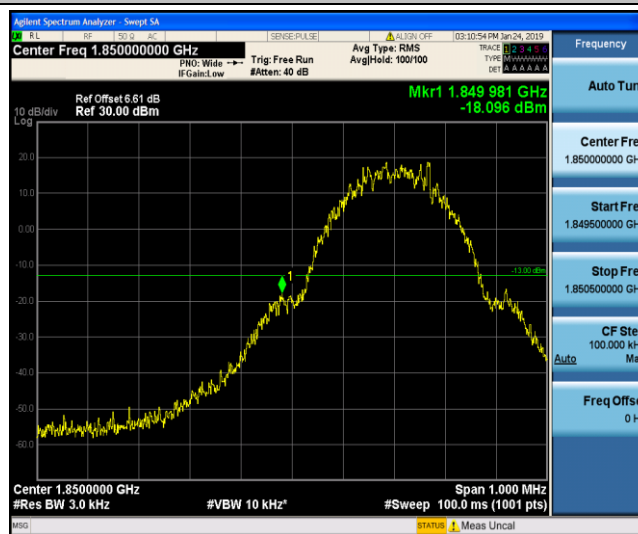


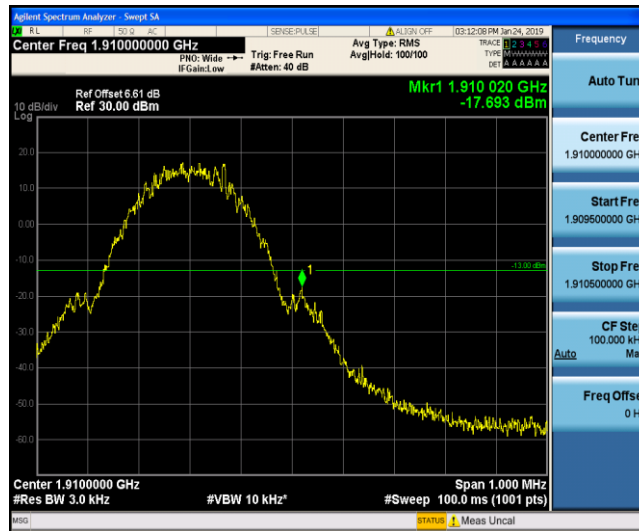
GSM1900_512



GSM1900_810



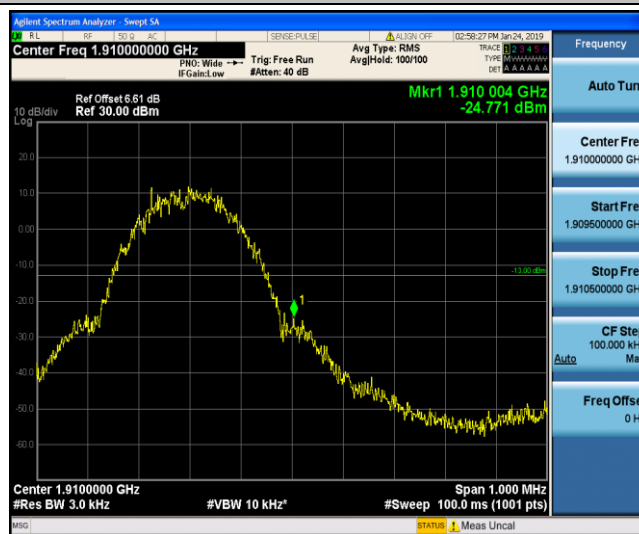
GPRS1900_512



GPRS1900_810



EGPRS1900_512



EGPRS1900_810



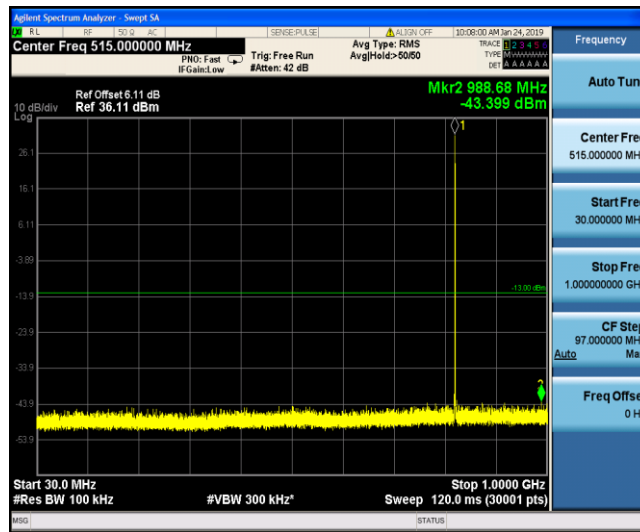
8.5 Appendix E: Conducted Spurious Emission

Test Result

Band	Channel	Frequency Rang(Mhz)	Value(dBm)	Limit(dBm)	Verdict
GSM850	128	30~1000	-43.40	-13	PASS
GSM850	128	1000~10000	-37.76	-13	PASS
GSM850	190	30~1000	-43.60	-13	PASS
GSM850	190	1000~10000	-38.55	-13	PASS
GSM850	251	30~1000	-42.42	-13	PASS
GSM850	251	1000~10000	-36.71	-13	PASS
GPRS850	128	30~1000	-42.70	-13	PASS
GPRS850	128	1000~10000	-36.66	-13	PASS
GPRS850	190	30~1000	-43.73	-13	PASS
GPRS850	190	1000~10000	-38.51	-13	PASS
GPRS850	251	30~1000	-43.30	-13	PASS
GPRS850	251	1000~10000	-39.54	-13	PASS
EGPRS850	128	30~1000	-43.45	-13	PASS
EGPRS850	128	1000~10000	-39.25	-13	PASS
EGPRS850	190	30~1000	-43.21	-13	PASS
EGPRS850	190	1000~10000	-39.37	-13	PASS
EGPRS850	251	30~1000	-43.05	-13	PASS
EGPRS850	251	1000~10000	-39.44	-13	PASS
GSM1900	512	30~1000	-43.28	-13	PASS
GSM1900	512	1000~20000	-32.90	-13	PASS
GSM1900	661	30~1000	-43.35	-13	PASS
GSM1900	661	1000~20000	-33.04	-13	PASS
GSM1900	810	30~1000	-43.15	-13	PASS
GSM1900	810	1000~20000	-32.92	-13	PASS
GPRS1900	512	30~1000	-43.39	-13	PASS
GPRS1900	512	1000~20000	-33.03	-13	PASS
GPRS1900	661	30~1000	-43.15	-13	PASS
GPRS1900	661	1000~20000	-32.99	-13	PASS
GPRS1900	810	30~1000	-43.88	-13	PASS
GPRS1900	810	1000~20000	-32.87	-13	PASS
EGPRS1900	512	30~1000	-43.64	-13	PASS
EGPRS1900	512	1000~20000	-32.89	-13	PASS
EGPRS1900	661	30~1000	-43.12	-13	PASS
EGPRS1900	661	1000~20000	-32.85	-13	PASS
EGPRS1900	810	30~1000	-43.53	-13	PASS
EGPRS1900	810	1000~20000	-33.05	-13	PASS



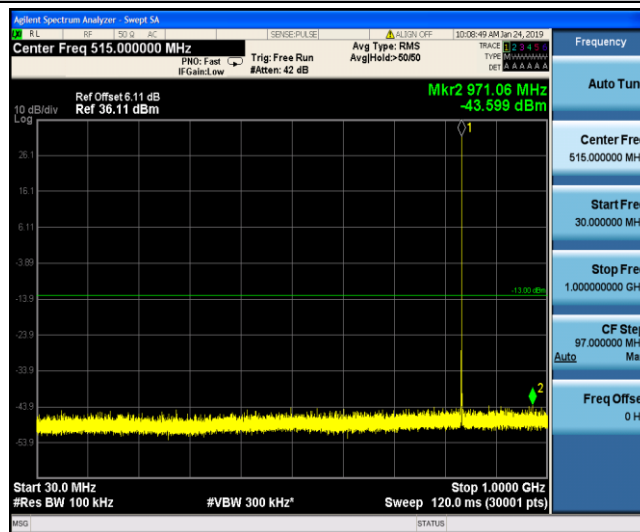
Test Graphs



GSM850_128



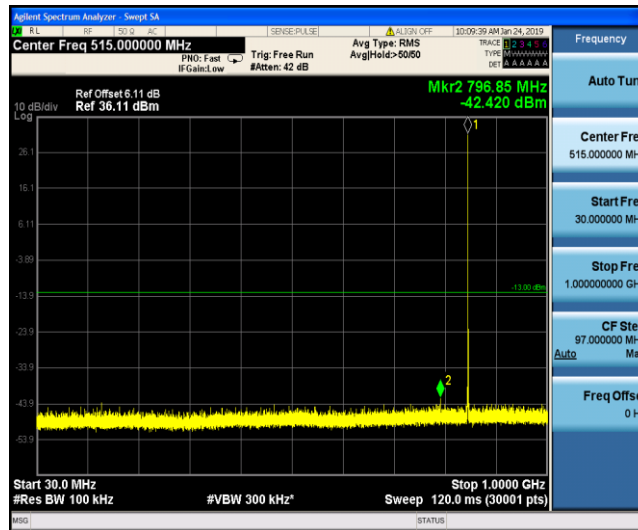
GSM850_128



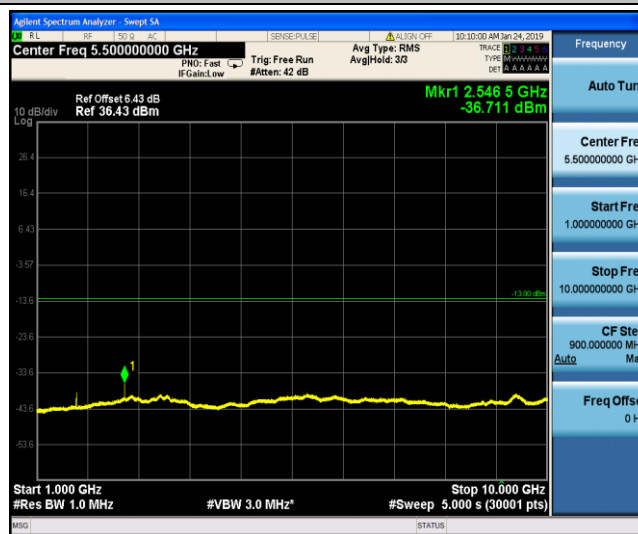
GSM850_190



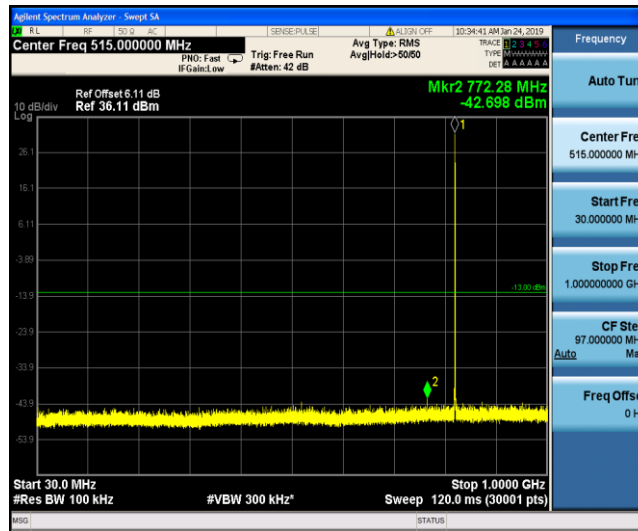
GSM850_190



GSM850_251



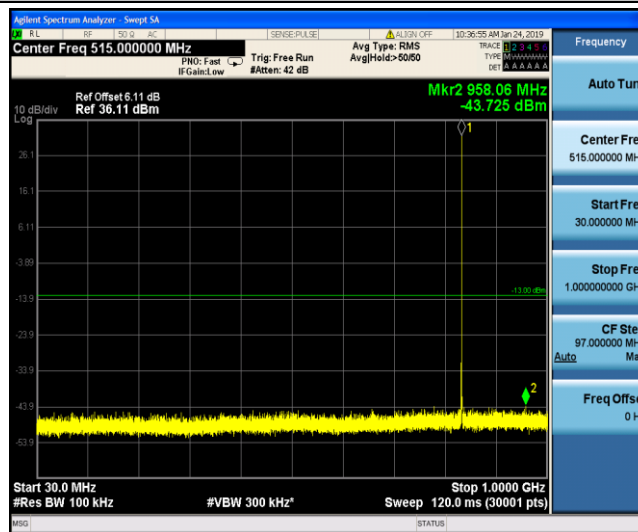
GSM850_251



GPRS850_128



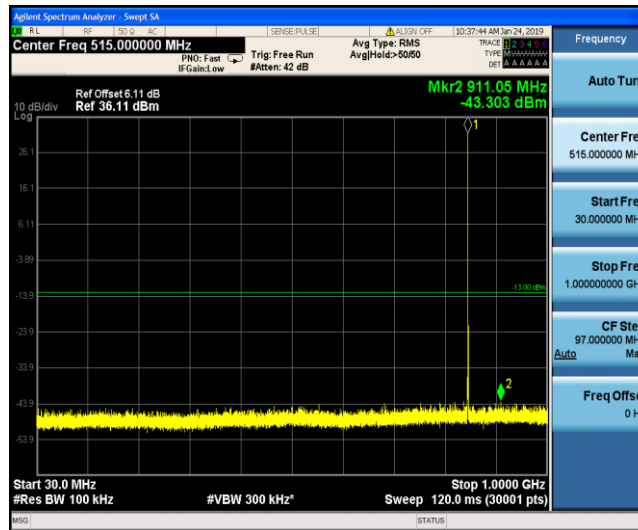
GPRS850_128



GPRS850_190



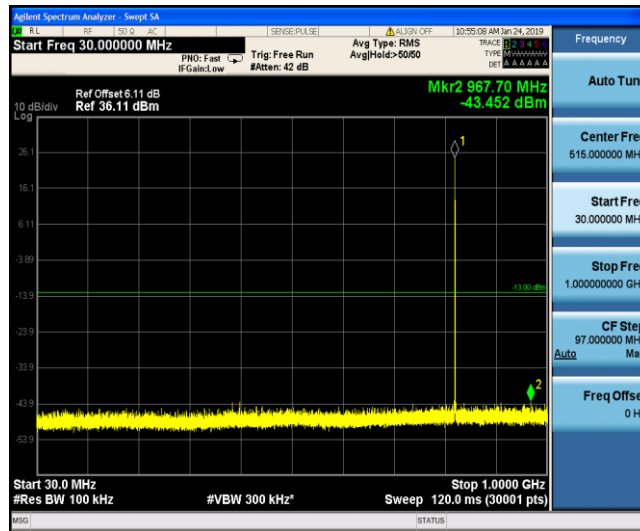
GPRS850_190



GPRS850_251



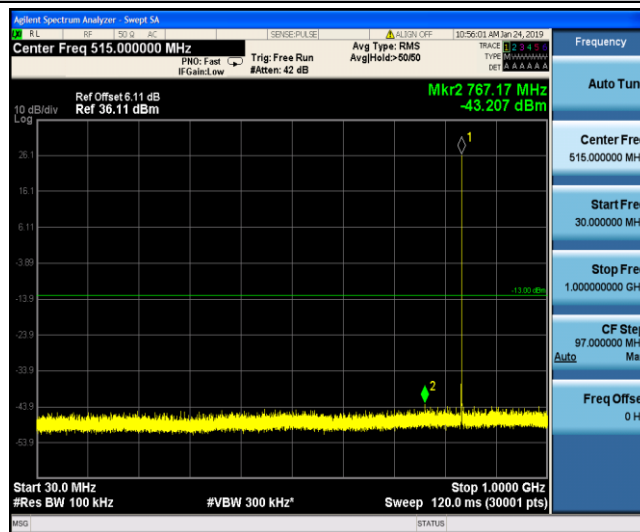
GPRS850_251



EGPRS850_128



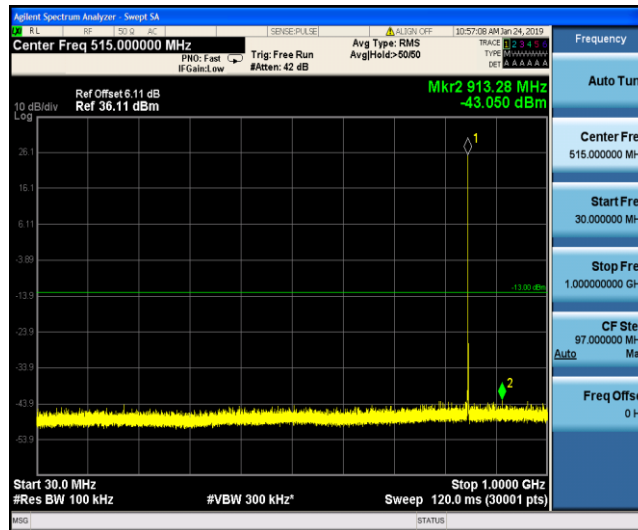
EGPRS850_128



EGPRS850_190



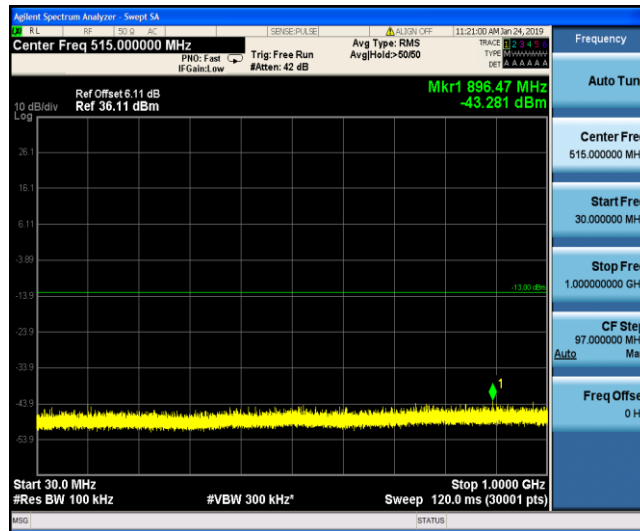
EGPRS850_190



EGPRS850_251



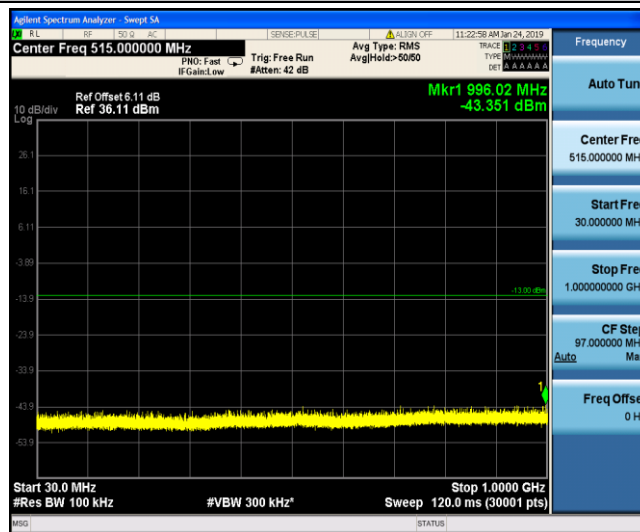
EGPRS850_251



GSM1900_512



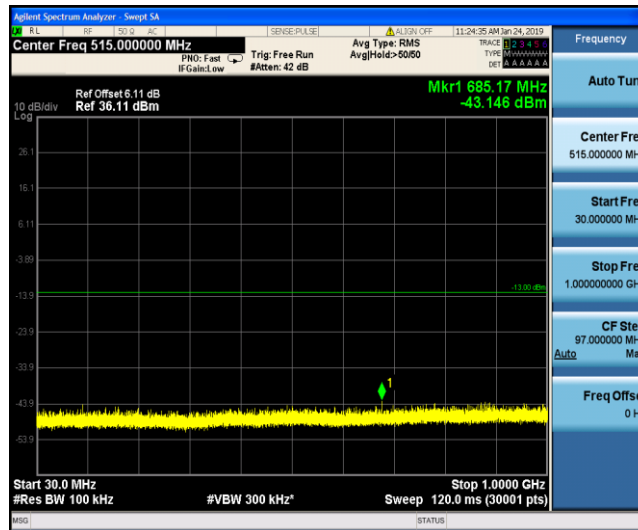
GSM1900_512



GSM1900_661



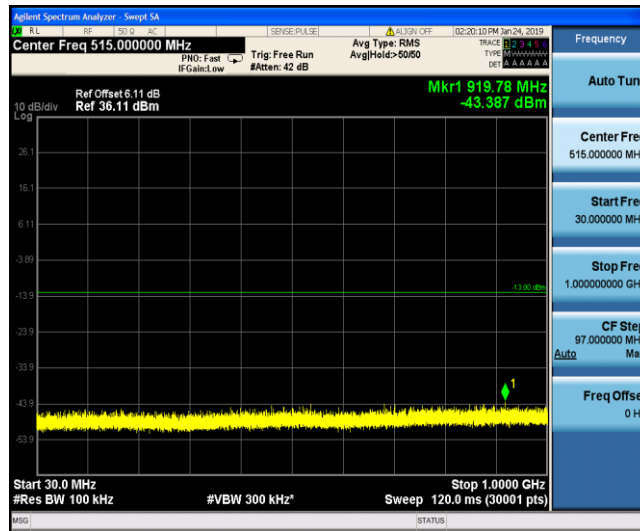
GSM1900_661



GSM1900_810



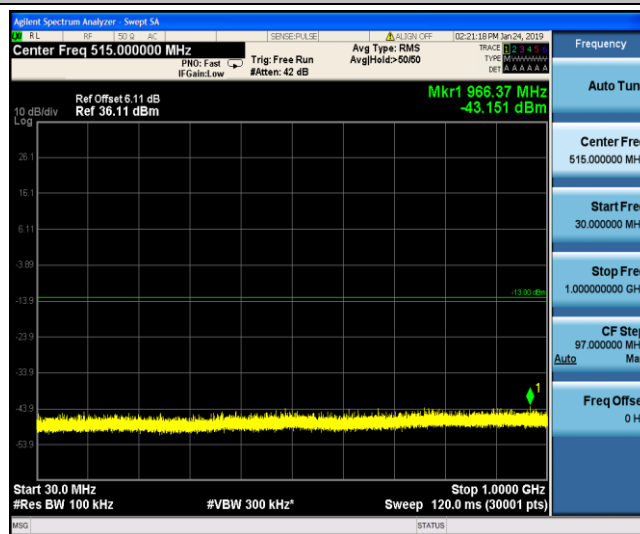
GSM1900_810



GPRS1900_512



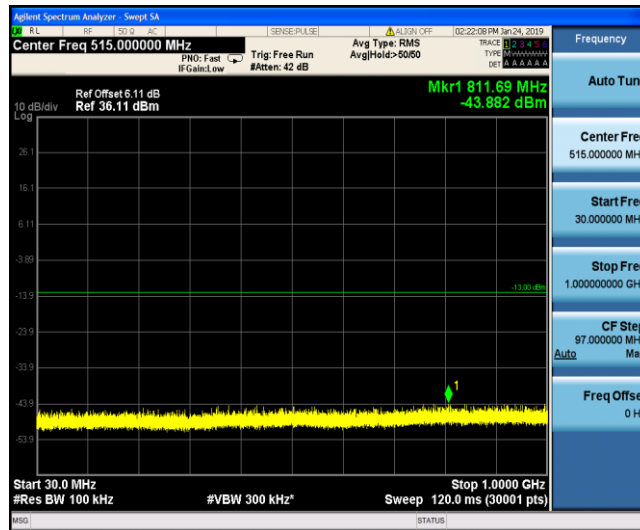
GPRS1900_512



GPRS1900_661



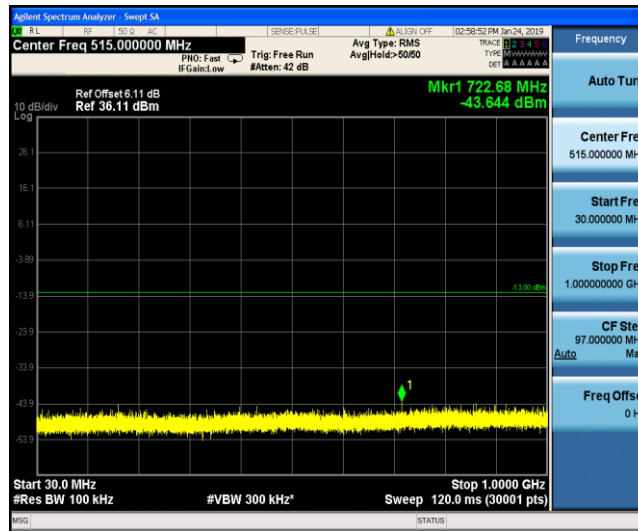
GPRS1900_661



GPRS1900_810



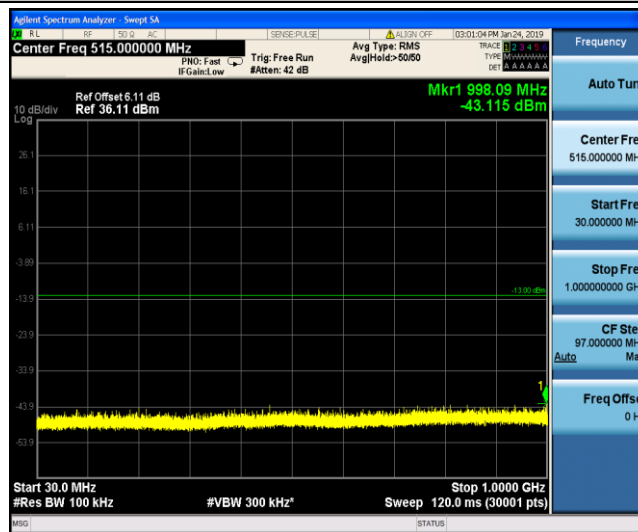
GPRS1900_810



EGPRS1900_512



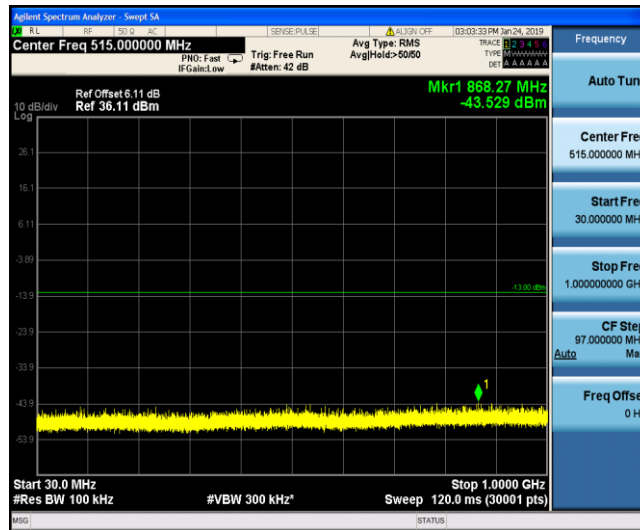
EGPRS1900_512



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	-10.46	-0.012692	2.5	PASS
GSM850	128	VN	TN	-6.59	-0.007991	2.5	PASS
GSM850	128	VH	TN	-7.72	-0.009362	2.5	PASS
GSM850	190	VL	TN	-6.23	-0.007448	2.5	PASS
GSM850	190	VN	TN	-4.42	-0.005287	2.5	PASS
GSM850	190	VH	TN	-1.45	-0.001737	2.5	PASS
GSM850	251	VL	TN	-10.07	-0.011868	2.5	PASS
GSM850	251	VN	TN	-10.59	-0.012476	2.5	PASS
GSM850	251	VH	TN	-12.30	-0.014492	2.5	PASS
GPRS850	128	VL	TN	-5.62	-0.006816	2.5	PASS
GPRS850	128	VN	TN	-4.13	-0.005014	2.5	PASS
GPRS850	128	VH	TN	-4.88	-0.005915	2.5	PASS
GPRS850	190	VL	TN	-5.75	-0.006869	2.5	PASS
GPRS850	190	VN	TN	-1.10	-0.001312	2.5	PASS
GPRS850	190	VH	TN	-5.23	-0.006252	2.5	PASS
GPRS850	251	VL	TN	-8.91	-0.010498	2.5	PASS
GPRS850	251	VN	TN	-4.10	-0.004831	2.5	PASS
GPRS850	251	VH	TN	-3.26	-0.003842	2.5	PASS
EGPRS850	128	VL	TN	-8.23	-0.009989	2.5	PASS
EGPRS850	128	VN	TN	-4.13	-0.005014	2.5	PASS
EGPRS850	128	VH	TN	-6.04	-0.007325	2.5	PASS
EGPRS850	190	VL	TN	-4.71	-0.005634	2.5	PASS
EGPRS850	190	VN	TN	-9.59	-0.011462	2.5	PASS
EGPRS850	190	VH	TN	0.71	0.000849	2.5	PASS
EGPRS850	251	VL	TN	-9.40	-0.011069	2.5	PASS
EGPRS850	251	VN	TN	-6.49	-0.007645	2.5	PASS
EGPRS850	251	VH	TN	-10.07	-0.011868	2.5	PASS
GSM1900	512	VL	TN	12.56	0.006788	2.5	PASS
GSM1900	512	VN	TN	2.84	0.001536	2.5	PASS
GSM1900	512	VH	TN	-4.94	-0.002670	2.5	PASS
GSM1900	661	VL	TN	-5.42	-0.002885	2.5	PASS
GSM1900	661	VN	TN	0.03	0.000017	2.5	PASS
GSM1900	661	VH	TN	-0.71	-0.000378	2.5	PASS
GSM1900	810	VL	TN	-0.48	-0.000254	2.5	PASS
GSM1900	810	VN	TN	-5.49	-0.002874	2.5	PASS
GSM1900	810	VH	TN	1.74	0.000913	2.5	PASS
GPRS1900	512	VL	TN	-0.90	-0.000489	2.5	PASS
GPRS1900	512	VN	TN	-0.58	-0.000314	2.5	PASS
GPRS1900	512	VH	TN	-5.78	-0.003124	2.5	PASS
GPRS1900	661	VL	TN	-4.26	-0.002267	2.5	PASS
GPRS1900	661	VN	TN	4.36	0.002318	2.5	PASS
GPRS1900	661	VH	TN	-4.42	-0.002353	2.5	PASS
GPRS1900	810	VL	TN	-14.85	-0.007776	2.5	PASS
GPRS1900	810	VN	TN	12.98	0.006796	2.5	PASS
GPRS1900	810	VH	TN	-10.98	-0.005748	2.5	PASS
EGPRS1900	512	VL	TN	-13.59	-0.007346	2.5	PASS
EGPRS1900	512	VN	TN	-24.54	-0.013262	2.5	PASS
EGPRS1900	512	VH	TN	-17.85	-0.009650	2.5	PASS



EGPRS1900	661	VL	TN	-6.33	-0.003366	2.5	PASS
EGPRS1900	661	VN	TN	-22.28	-0.011850	2.5	PASS
EGPRS1900	661	VH	TN	-11.75	-0.006251	2.5	PASS
EGPRS1900	810	VL	TN	-11.91	-0.006238	2.5	PASS
EGPRS1900	810	VN	TN	-15.01	-0.007861	2.5	PASS
EGPRS1900	810	VH	TN	1.10	0.000575	2.5	PASS



Temperature							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	VN	-30	-8.14	-0.009871	2.5	PASS
GSM850	128	VN	-20	-6.72	-0.008148	2.5	PASS
GSM850	128	VN	-10	-9.33	-0.011321	2.5	PASS
GSM850	128	VN	0	-2.78	-0.003369	2.5	PASS
GSM850	128	VN	10	-5.62	-0.006816	2.5	PASS
GSM850	128	VN	20	-6.75	-0.008187	2.5	PASS
GSM850	128	VN	30	-3.58	-0.004348	2.5	PASS
GSM850	128	VN	40	-4.75	-0.005758	2.5	PASS
GSM850	128	VN	50	-8.59	-0.010420	2.5	PASS
GSM850	190	VN	-30	-4.16	-0.004978	2.5	PASS
GSM850	190	VN	-20	0.23	0.000270	2.5	PASS
GSM850	190	VN	-10	0.71	0.000849	2.5	PASS
GSM850	190	VN	0	-2.71	-0.003242	2.5	PASS
GSM850	190	VN	10	-5.29	-0.006329	2.5	PASS
GSM850	190	VN	20	-3.49	-0.004168	2.5	PASS
GSM850	190	VN	30	-5.46	-0.006522	2.5	PASS
GSM850	190	VN	40	-1.68	-0.002007	2.5	PASS
GSM850	190	VN	50	-2.49	-0.002972	2.5	PASS
GSM850	251	VN	-30	-10.30	-0.012134	2.5	PASS
GSM850	251	VN	-20	-11.85	-0.013960	2.5	PASS
GSM850	251	VN	-10	-11.85	-0.013960	2.5	PASS
GSM850	251	VN	0	-12.40	-0.014606	2.5	PASS
GSM850	251	VN	10	-13.01	-0.015329	2.5	PASS
GSM850	251	VN	20	-11.17	-0.013161	2.5	PASS
GSM850	251	VN	30	-13.37	-0.015747	2.5	PASS
GSM850	251	VN	40	-11.59	-0.013655	2.5	PASS
GSM850	251	VN	50	-8.72	-0.010270	2.5	PASS
GPRS850	128	VN	-30	-12.30	-0.014925	2.5	PASS
GPRS850	128	VN	-20	-9.10	-0.011047	2.5	PASS
GPRS850	128	VN	-10	-11.62	-0.014102	2.5	PASS
GPRS850	128	VN	0	-7.81	-0.009480	2.5	PASS
GPRS850	128	VN	10	-7.17	-0.008696	2.5	PASS
GPRS850	128	VN	20	-12.40	-0.015042	2.5	PASS
GPRS850	128	VN	30	-3.52	-0.004270	2.5	PASS
GPRS850	128	VN	40	-9.01	-0.010929	2.5	PASS
GPRS850	128	VN	50	-9.59	-0.011634	2.5	PASS
GPRS850	190	VN	-30	-7.46	-0.008915	2.5	PASS
GPRS850	190	VN	-20	-2.58	-0.003087	2.5	PASS
GPRS850	190	VN	-10	-3.68	-0.004399	2.5	PASS
GPRS850	190	VN	0	-2.26	-0.002701	2.5	PASS
GPRS850	190	VN	10	-2.39	-0.002856	2.5	PASS
GPRS850	190	VN	20	-7.10	-0.008490	2.5	PASS
GPRS850	190	VN	30	-5.84	-0.006985	2.5	PASS
GPRS850	190	VN	40	-0.45	-0.000540	2.5	PASS
GPRS850	190	VN	50	-5.17	-0.006175	2.5	PASS
GPRS850	251	VN	-30	-16.50	-0.019437	2.5	PASS
GPRS850	251	VN	-20	-12.85	-0.015139	2.5	PASS
GPRS850	251	VN	-10	-8.62	-0.010156	2.5	PASS
GPRS850	251	VN	0	-11.56	-0.013617	2.5	PASS
GPRS850	251	VN	10	-10.94	-0.012895	2.5	PASS
GPRS850	251	VN	20	-10.20	-0.012020	2.5	PASS



GPRS850	251	VN	30	-10.59	-0.012476	2.5	PASS
GPRS850	251	VN	40	-14.95	-0.017611	2.5	PASS
GPRS850	251	VN	50	-15.46	-0.018220	2.5	PASS
EGPRS850	128	VN	-30	0.45	0.000548	2.5	PASS
EGPRS850	128	VN	-20	-5.13	-0.006228	2.5	PASS
EGPRS850	128	VN	-10	-6.42	-0.007795	2.5	PASS
EGPRS850	128	VN	0	-6.55	-0.007952	2.5	PASS
EGPRS850	128	VN	10	-4.16	-0.005053	2.5	PASS
EGPRS850	128	VN	20	-5.49	-0.006659	2.5	PASS
EGPRS850	128	VN	30	-8.91	-0.010812	2.5	PASS
EGPRS850	128	VN	40	-6.94	-0.008422	2.5	PASS
EGPRS850	128	VN	50	-9.49	-0.011517	2.5	PASS
EGPRS850	190	VN	-30	-7.36	-0.008799	2.5	PASS
EGPRS850	190	VN	-20	-7.26	-0.008683	2.5	PASS
EGPRS850	190	VN	-10	-9.49	-0.011346	2.5	PASS
EGPRS850	190	VN	0	-4.75	-0.005673	2.5	PASS
EGPRS850	190	VN	10	-5.62	-0.006715	2.5	PASS
EGPRS850	190	VN	20	-4.04	-0.004824	2.5	PASS
EGPRS850	190	VN	30	-5.59	-0.006676	2.5	PASS
EGPRS850	190	VN	40	-5.62	-0.006715	2.5	PASS
EGPRS850	190	VN	50	-10.20	-0.012195	2.5	PASS
EGPRS850	251	VN	-30	-9.78	-0.011525	2.5	PASS
EGPRS850	251	VN	-20	-11.85	-0.013960	2.5	PASS
EGPRS850	251	VN	-10	-7.46	-0.008787	2.5	PASS
EGPRS850	251	VN	0	-5.13	-0.006048	2.5	PASS
EGPRS850	251	VN	10	-3.68	-0.004336	2.5	PASS
EGPRS850	251	VN	20	-11.56	-0.013617	2.5	PASS
EGPRS850	251	VN	30	-9.98	-0.011753	2.5	PASS
EGPRS850	251	VN	40	-13.33	-0.015709	2.5	PASS
EGPRS850	251	VN	50	-10.30	-0.012134	2.5	PASS
GSM1900	512	VN	-30	-2.36	-0.001274	2.5	PASS
GSM1900	512	VN	-20	-6.91	-0.003734	2.5	PASS
GSM1900	512	VN	-10	-4.33	-0.002338	2.5	PASS
GSM1900	512	VN	0	-11.95	-0.006456	2.5	PASS
GSM1900	512	VN	10	-19.89	-0.010749	2.5	PASS
GSM1900	512	VN	20	-15.59	-0.008428	2.5	PASS
GSM1900	512	VN	30	5.91	0.003193	2.5	PASS
GSM1900	512	VN	40	3.42	0.001850	2.5	PASS
GSM1900	512	VN	50	1.74	0.000942	2.5	PASS
GSM1900	661	VN	-30	4.84	0.002576	2.5	PASS
GSM1900	661	VN	-20	6.78	0.003606	2.5	PASS
GSM1900	661	VN	-10	-2.20	-0.001168	2.5	PASS
GSM1900	661	VN	0	-1.78	-0.000945	2.5	PASS
GSM1900	661	VN	10	-6.88	-0.003658	2.5	PASS
GSM1900	661	VN	20	-10.69	-0.005684	2.5	PASS
GSM1900	661	VN	30	0.19	0.000103	2.5	PASS
GSM1900	661	VN	40	-6.13	-0.003263	2.5	PASS
GSM1900	661	VN	50	-11.78	-0.006268	2.5	PASS
GSM1900	810	VN	-30	-3.52	-0.001843	2.5	PASS
GSM1900	810	VN	-20	-2.52	-0.001319	2.5	PASS
GSM1900	810	VN	-10	5.00	0.002620	2.5	PASS
GSM1900	810	VN	0	-2.20	-0.001150	2.5	PASS
GSM1900	810	VN	10	-12.30	-0.006441	2.5	PASS
GSM1900	810	VN	20	-3.29	-0.001724	2.5	PASS
GSM1900	810	VN	30	-0.77	-0.000406	2.5	PASS



GSM1900	810	VN	40	-2.36	-0.001234	2.5	PASS
GSM1900	810	VN	50	-9.43	-0.004936	2.5	PASS
GPRS1900	512	VN	-30	-15.46	-0.008359	2.5	PASS
GPRS1900	512	VN	-20	-11.69	-0.006317	2.5	PASS
GPRS1900	512	VN	-10	0.58	0.000314	2.5	PASS
GPRS1900	512	VN	0	-5.13	-0.002775	2.5	PASS
GPRS1900	512	VN	10	-2.49	-0.001344	2.5	PASS
GPRS1900	512	VN	20	6.84	0.003699	2.5	PASS
GPRS1900	512	VN	30	-9.69	-0.005235	2.5	PASS
GPRS1900	512	VN	40	0.13	0.000070	2.5	PASS
GPRS1900	512	VN	50	-7.49	-0.004048	2.5	PASS
GPRS1900	661	VN	-30	-13.50	-0.007178	2.5	PASS
GPRS1900	661	VN	-20	-1.84	-0.000979	2.5	PASS
GPRS1900	661	VN	-10	-0.74	-0.000395	2.5	PASS
GPRS1900	661	VN	0	-2.65	-0.001408	2.5	PASS
GPRS1900	661	VN	10	-0.77	-0.000412	2.5	PASS
GPRS1900	661	VN	20	2.26	0.001202	2.5	PASS
GPRS1900	661	VN	30	4.46	0.002370	2.5	PASS
GPRS1900	661	VN	40	10.14	0.005392	2.5	PASS
GPRS1900	661	VN	50	-3.97	-0.002112	2.5	PASS
GPRS1900	810	VN	-30	-3.91	-0.002046	2.5	PASS
GPRS1900	810	VN	-20	5.04	0.002637	2.5	PASS
GPRS1900	810	VN	-10	-3.23	-0.001691	2.5	PASS
GPRS1900	810	VN	0	-5.84	-0.003060	2.5	PASS
GPRS1900	810	VN	10	-2.13	-0.001116	2.5	PASS
GPRS1900	810	VN	20	-5.46	-0.002857	2.5	PASS
GPRS1900	810	VN	30	-1.84	-0.000964	2.5	PASS
GPRS1900	810	VN	40	2.03	0.001065	2.5	PASS
GPRS1900	810	VN	50	-7.26	-0.003804	2.5	PASS
EGPRS1900	512	VN	-30	-25.83	-0.013960	2.5	PASS
EGPRS1900	512	VN	-20	-30.45	-0.016455	2.5	PASS
EGPRS1900	512	VN	-10	-29.38	-0.015879	2.5	PASS
EGPRS1900	512	VN	0	-24.18	-0.013070	2.5	PASS
EGPRS1900	512	VN	10	-14.46	-0.007818	2.5	PASS
EGPRS1900	512	VN	20	-9.94	-0.005375	2.5	PASS
EGPRS1900	512	VN	30	-25.09	-0.013559	2.5	PASS
EGPRS1900	512	VN	40	-16.92	-0.009144	2.5	PASS
EGPRS1900	512	VN	50	-8.17	-0.004415	2.5	PASS
EGPRS1900	661	VN	-30	-12.95	-0.006887	2.5	PASS
EGPRS1900	661	VN	-20	-26.02	-0.013842	2.5	PASS
EGPRS1900	661	VN	-10	-19.76	-0.010510	2.5	PASS
EGPRS1900	661	VN	0	-20.08	-0.010682	2.5	PASS
EGPRS1900	661	VN	10	-7.81	-0.004156	2.5	PASS
EGPRS1900	661	VN	20	-15.56	-0.008278	2.5	PASS
EGPRS1900	661	VN	30	-19.89	-0.010579	2.5	PASS
EGPRS1900	661	VN	40	-16.66	-0.008861	2.5	PASS
EGPRS1900	661	VN	50	-26.80	-0.014254	2.5	PASS
EGPRS1900	810	VN	-30	-10.75	-0.005629	2.5	PASS
EGPRS1900	810	VN	-20	-7.75	-0.004057	2.5	PASS
EGPRS1900	810	VN	-10	-16.92	-0.008858	2.5	PASS
EGPRS1900	810	VN	0	-10.20	-0.005342	2.5	PASS
EGPRS1900	810	VN	10	-15.40	-0.008064	2.5	PASS
EGPRS1900	810	VN	20	-22.99	-0.012037	2.5	PASS
EGPRS1900	810	VN	30	-16.34	-0.008554	2.5	PASS
EGPRS1900	810	VN	40	-7.36	-0.003854	2.5	PASS



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EGPRS1900	810	VN	50	-14.59	-0.007641	2.5	PASS
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