



8.1 Appendix A: Conducted Output Power

Test Result

Band	Channel	PCL	Power(dBm)	Limit(dBm)	Verdict
GSM850	128	5	33.27	38.5	PASS
GSM850	190	5	33.31	38.5	PASS
GSM850	251	5	33.19	38.5	PASS
GSM1900	512	0	29.76	33	PASS
GSM1900	661	0	29.51	33	PASS
GSM1900	810	0	29.51	33	PASS



Band	Channel	PCL	Slot	Power(dBm)	Limit(dBm)	Verdict
GPRS850	128	5	1	33.17	38.5	PASS
GPRS850	128	5	2	31.83	38.5	PASS
GPRS850	128	5	3	29.54	38.5	PASS
GPRS850	128	5	4	26.93	38.5	PASS
GPRS850	190	5	1	33.17	38.5	PASS
GPRS850	190	5	2	31.43	38.5	PASS
GPRS850	190	5	3	29.72	38.5	PASS
GPRS850	190	5	4	27.13	38.5	PASS
GPRS850	251	5	1	33.05	38.5	PASS
GPRS850	251	5	2	31.26	38.5	PASS
GPRS850	251	5	3	29.38	38.5	PASS
GPRS850	251	5	4	27.28	38.5	PASS
GPRS1900	512	0	1	29.89	33	PASS
GPRS1900	512	0	2	27.11	33	PASS
GPRS1900	512	0	3	26.35	33	PASS
GPRS1900	512	0	4	23.67	33	PASS
GPRS1900	661	0	1	29.80	33	PASS
GPRS1900	661	0	2	27.70	33	PASS
GPRS1900	661	0	3	26.07	33	PASS
GPRS1900	661	0	4	23.57	33	PASS
GPRS1900	810	0	1	29.77	33	PASS
GPRS1900	810	0	2	27.30	33	PASS
GPRS1900	810	0	3	26.29	33	PASS
GPRS1900	810	0	4	23.58	33	PASS



8.2 Appendix B: Peak-to-Average Ratio

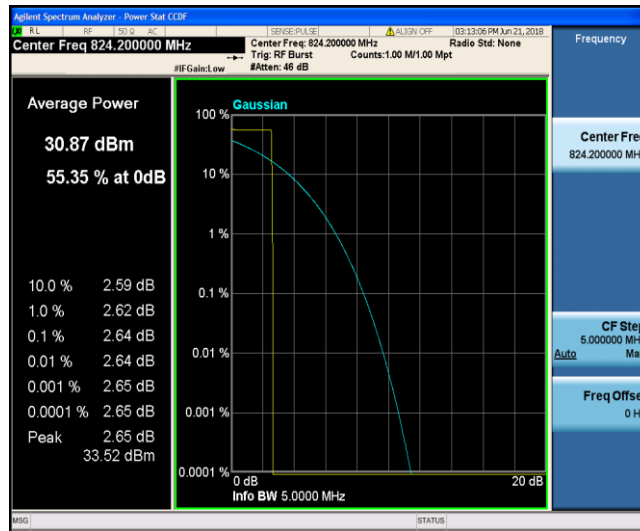
Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dBm)	Verdict
GSM850	128	2.64	13	PASS
GSM850	190	2.63	13	PASS
GSM850	251	2.63	13	PASS
GPRS850	128	2.65	13	PASS
GPRS850	190	2.63	13	PASS
GPRS850	251	2.63	13	PASS
GSM1900	512	2.67	13	PASS
GSM1900	661	2.68	13	PASS
GSM1900	810	2.68	13	PASS
GPRS1900	512	2.67	13	PASS
GPRS1900	661	2.67	13	PASS
GPRS1900	810	2.67	13	PASS

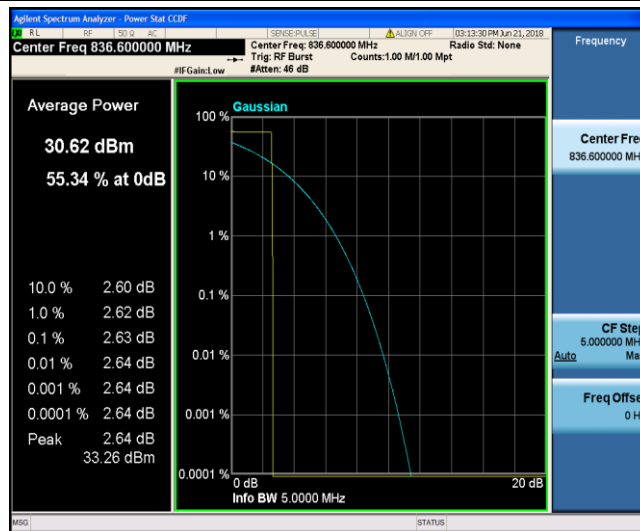


Test Graphs

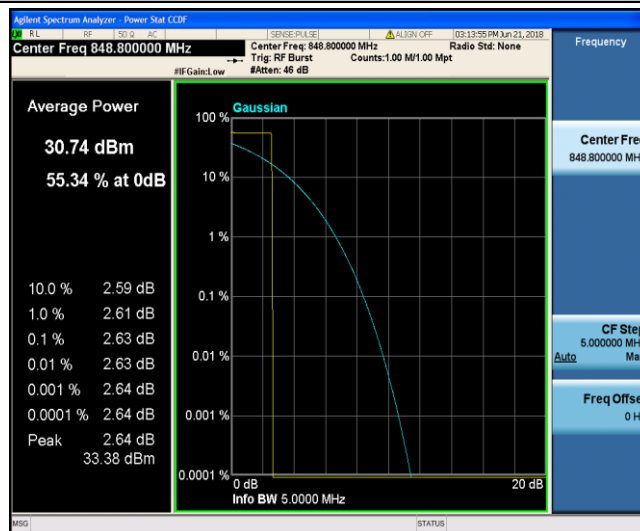
GSM850_128



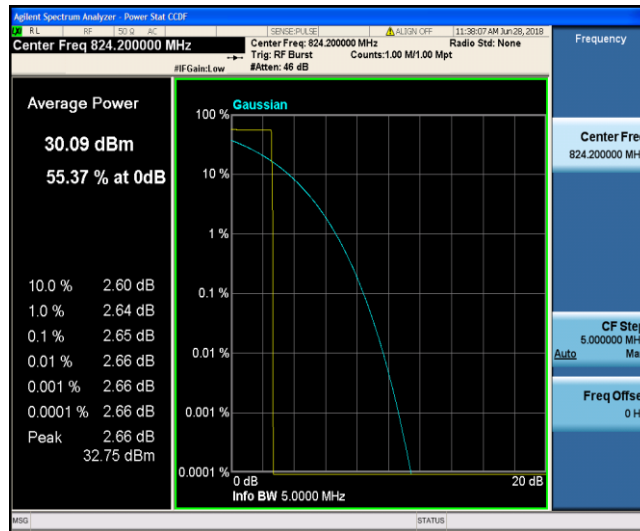
GSM850_190



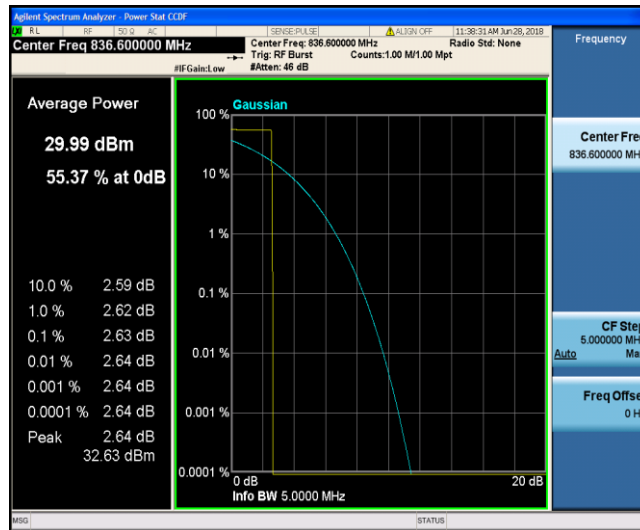
GSM850_251



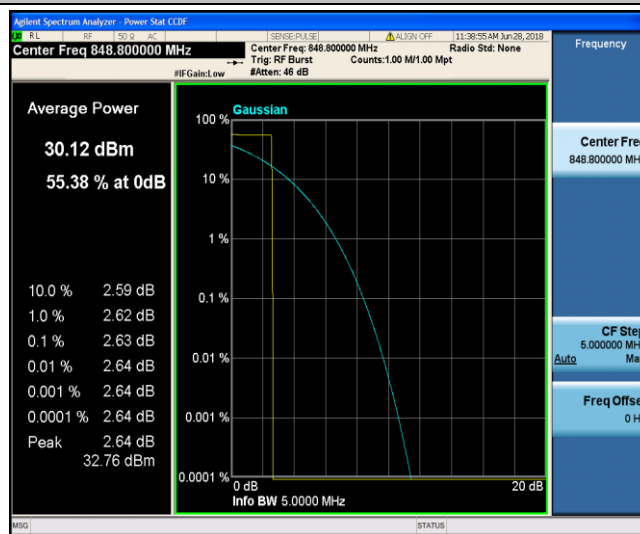
GPRS850_128



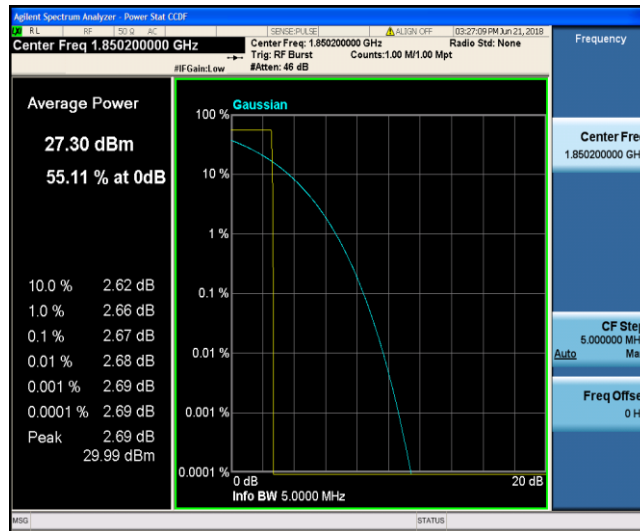
GPRS850_190



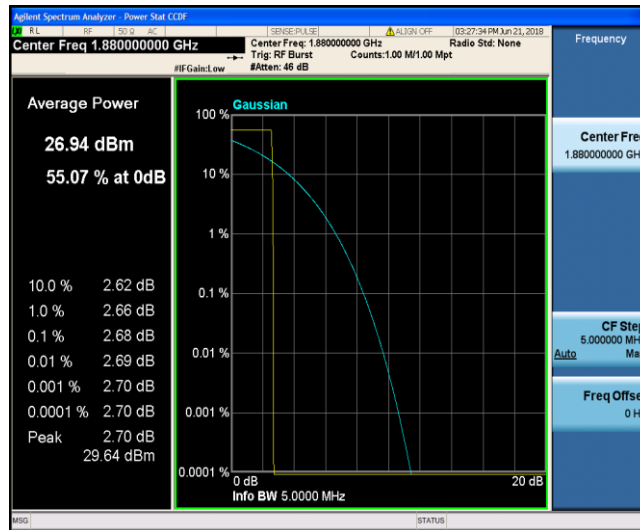
GPRS850_251



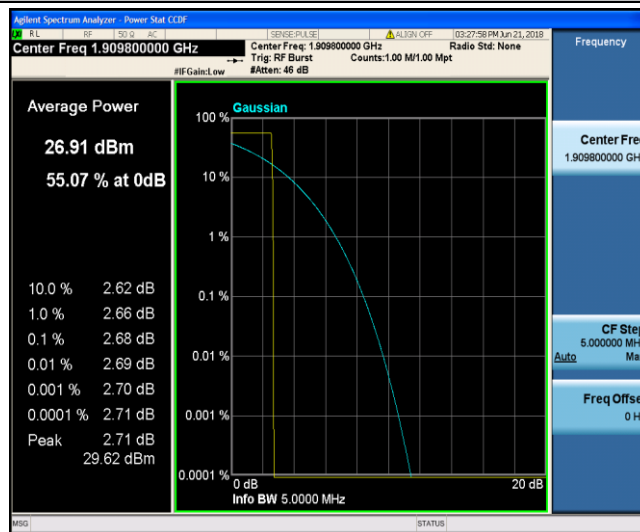
GSM1900_512



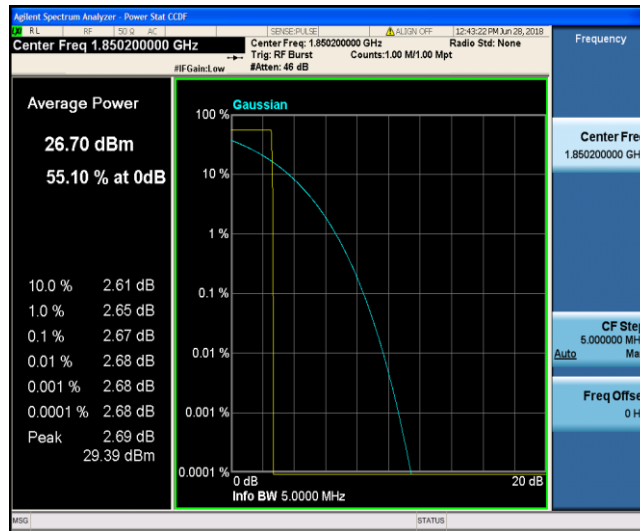
GSM1900_661



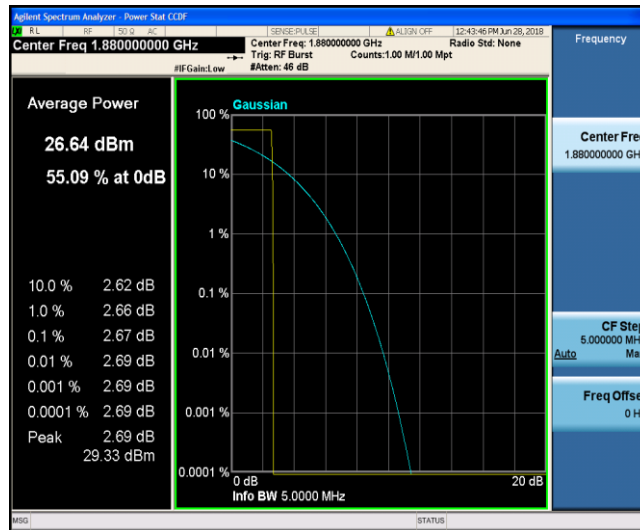
GSM1900_810



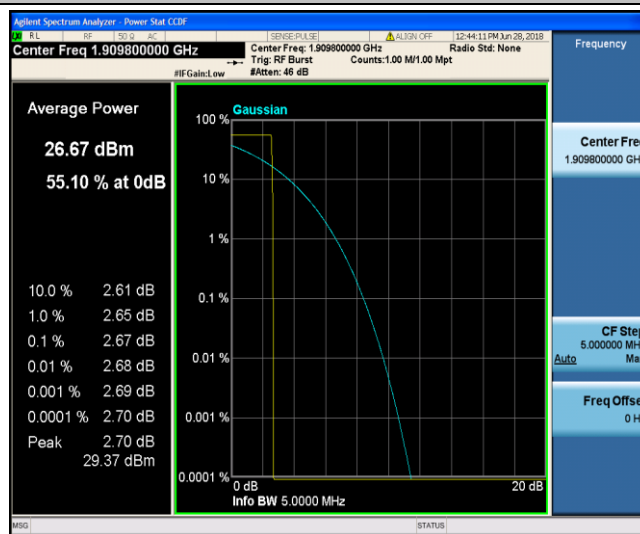
GPRS1900_512



GPRS1900_661



GPRS1900_810





8.3 Appendix C: 26dB Bandwidth and Occupied Bandwidth

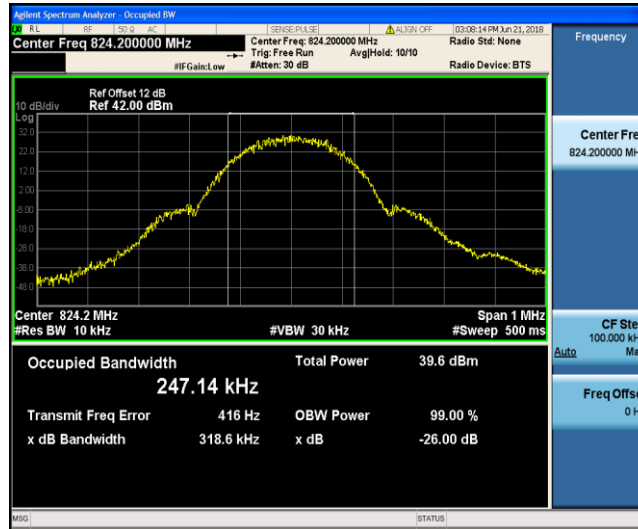
Test Result

Band	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
GSM850	128	247.14	318.6	---	PASS
GSM850	190	245.54	317.4	---	PASS
GSM850	251	245.86	314.2	---	PASS
GPRS850	128	245.63	320.6	---	PASS
GPRS850	190	244.59	320.1	---	PASS
GPRS850	251	246.05	319.9	---	PASS
GSM1900	512	246.91	309.5	---	PASS
GSM1900	661	245.42	319.3	---	PASS
GSM1900	810	245.86	314.6	---	PASS
GPRS1900	512	246.71	313.8	---	PASS
GPRS1900	661	245.06	313.8	---	PASS
GPRS1900	810	245.29	313.8	---	PASS

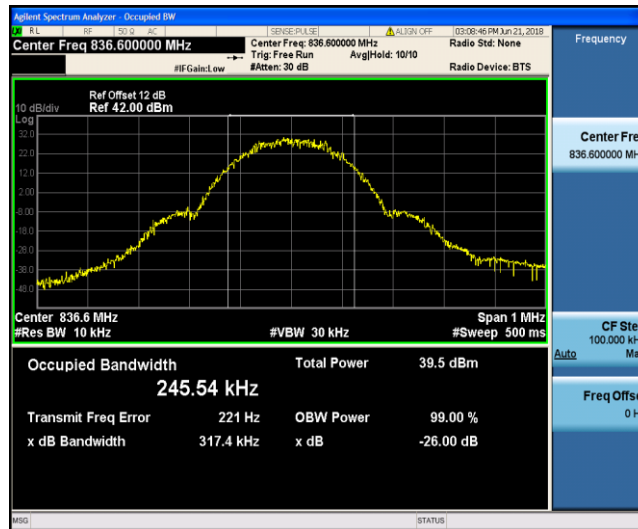


Test Graphs

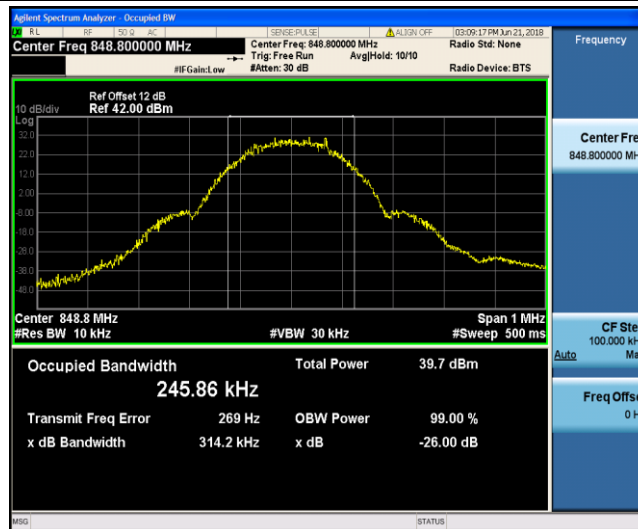
GSM850_128



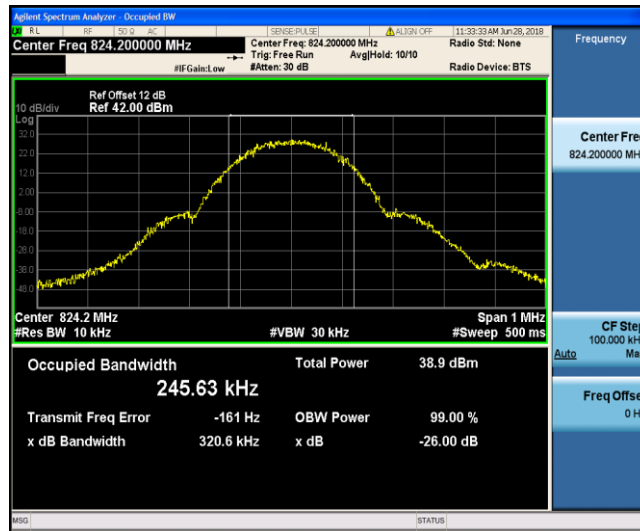
GSM850_190



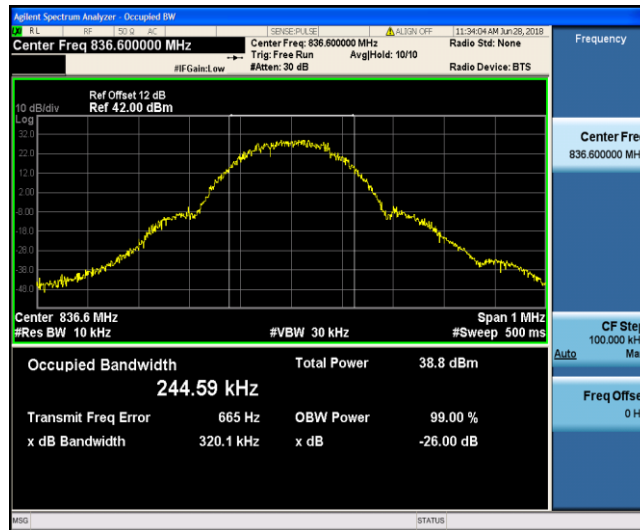
GSM850_251



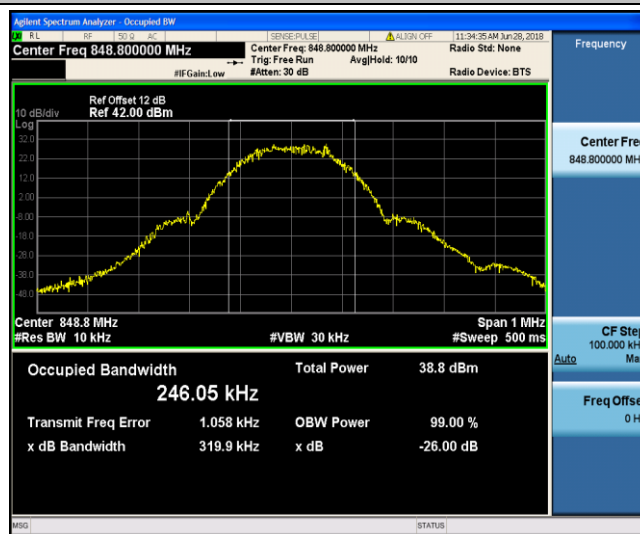
GPRS850_128



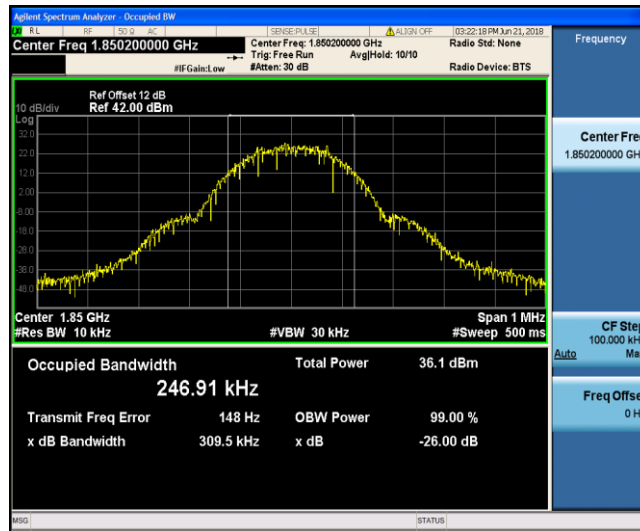
GPRS850_190



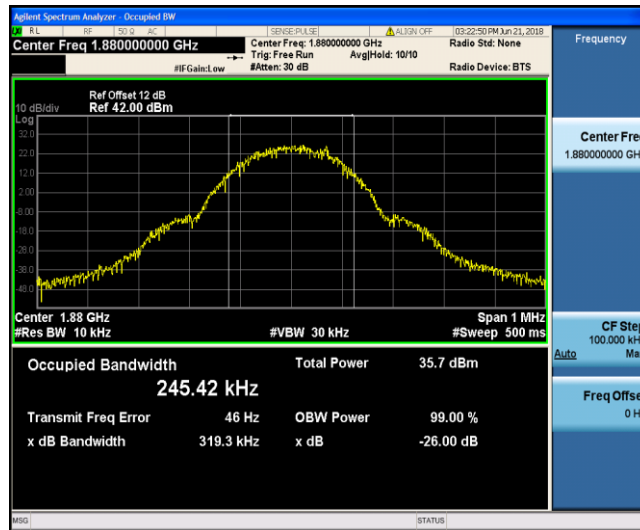
GPRS850_251



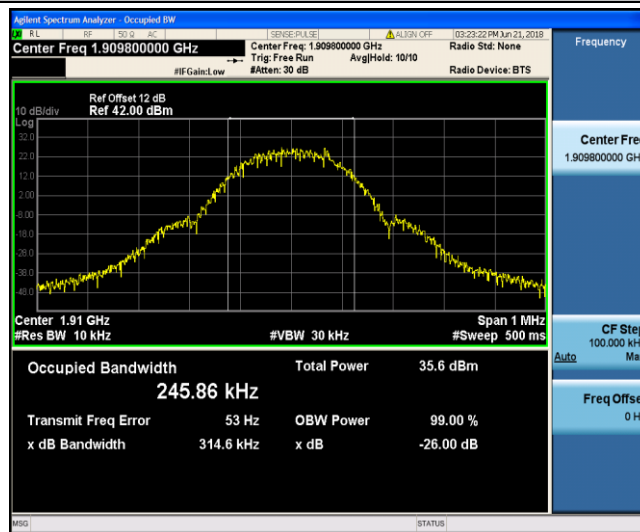
GSM1900_512



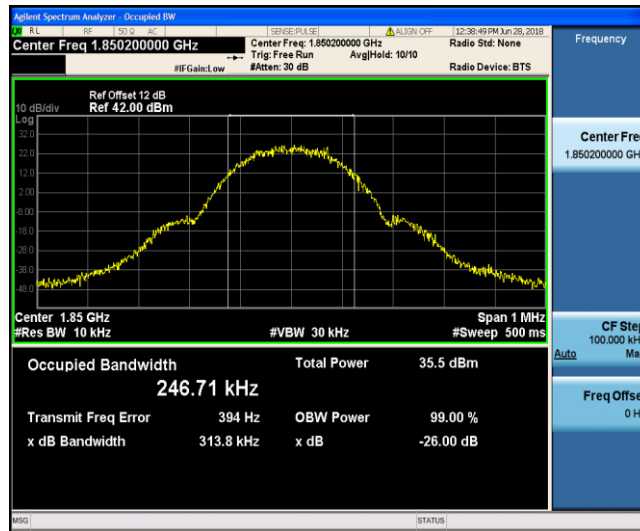
GSM1900_661



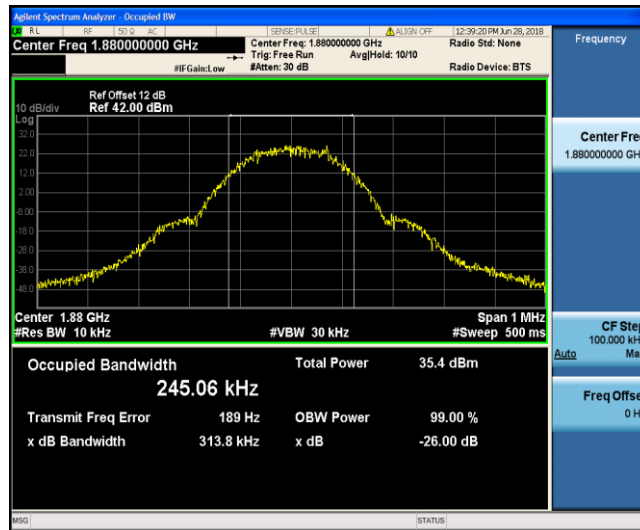
GSM1900_810



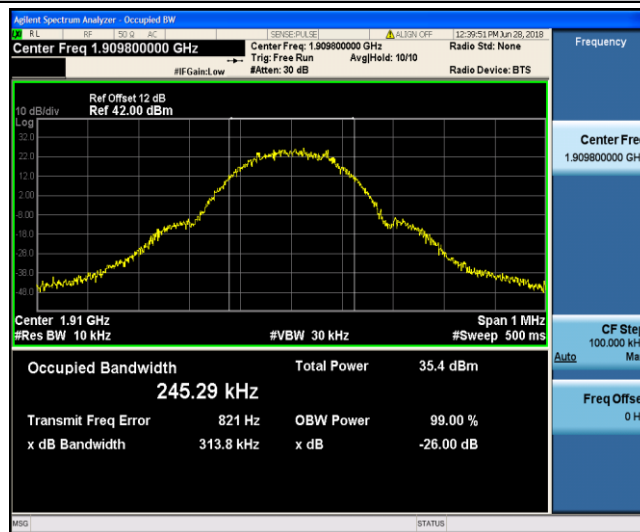
GPRS1900_512



GPRS1900_661



GPRS1900_810





8.4 Appendix D: Band Edge

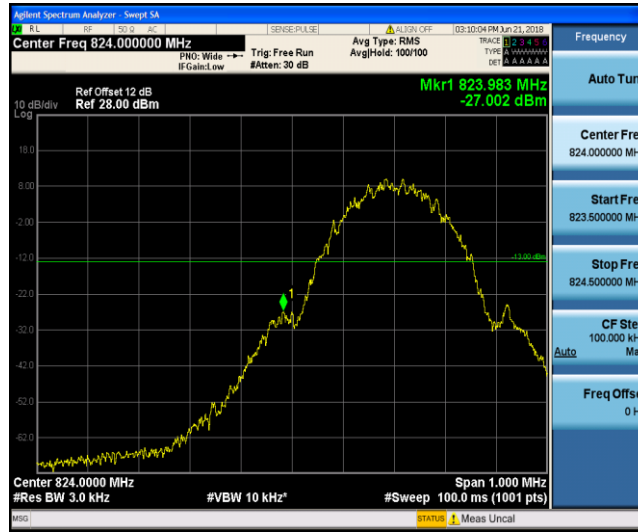
Test Result

Band	Channel	Value(dBm)	Limit(dBm)	Verdict
GSM850	128	-27.00	-13	PASS
GSM850	251	-25.22	-13	PASS
GPRS850	128	-27.90	-13	PASS
GPRS850	251	-27.61	-13	PASS
GSM1900	512	-29.17	-13	PASS
GSM1900	810	-28.53	-13	PASS
GPRS1900	512	-30.65	-13	PASS
GPRS1900	810	-29.13	-13	PASS



Test Graphs

GSM850_128



GSM850_251



GPRS850_128



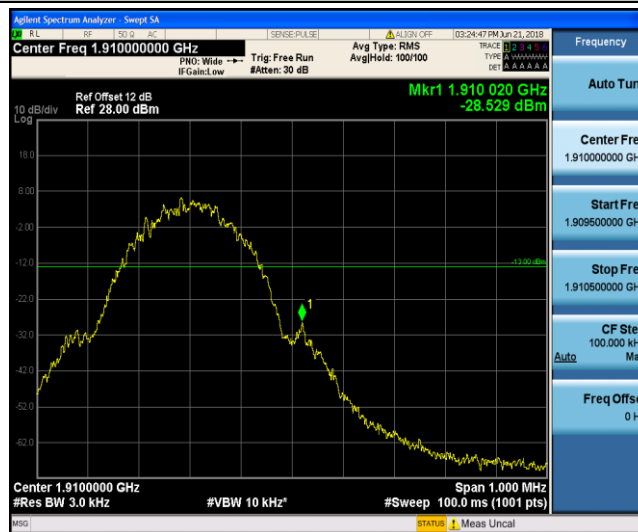
GPRS850_251



GSM1900_512



GSM1900_810



GPRS1900_512



GPRS1900_810





8.5 Appendix E: Conducted Spurious Emission

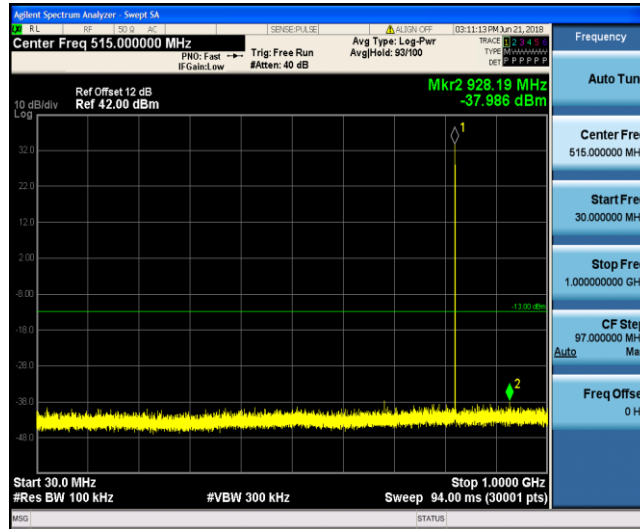
Test Result

Band	Channel	Frequency Rang(Mhz)	Value(dBm)	Limit(dBm)	Verdict
GSM850	128	30~1000	-37.99	-13	PASS
GSM850	128	1000~10000	-25.60	-13	PASS
GSM850	190	30~1000	-38.39	-13	PASS
GSM850	190	1000~10000	-25.32	-13	PASS
GSM850	251	30~1000	-38.04	-13	PASS
GSM850	251	1000~10000	-25.63	-13	PASS
GPRS850	128	30~1000	-38.83	-13	PASS
GPRS850	128	1000~10000	-25.09	-13	PASS
GPRS850	190	30~1000	-38.14	-13	PASS
GPRS850	190	1000~10000	-24.29	-13	PASS
GPRS850	251	30~1000	-38.19	-13	PASS
GPRS850	251	1000~10000	-25.03	-13	PASS
GSM1900	512	30~1000	-38.51	-13	PASS
GSM1900	512	1000~20000	-19.52	-13	PASS
GSM1900	661	30~1000	-38.31	-13	PASS
GSM1900	661	1000~20000	-18.69	-13	PASS
GSM1900	810	30~1000	-38.31	-13	PASS
GSM1900	810	1000~20000	-19.31	-13	PASS
GPRS1900	512	30~1000	-38.19	-13	PASS
GPRS1900	512	1000~20000	-19.39	-13	PASS
GPRS1900	661	30~1000	-37.90	-13	PASS
GPRS1900	661	1000~20000	-17.91	-13	PASS
GPRS1900	810	30~1000	-38.57	-13	PASS
GPRS1900	810	1000~20000	-18.85	-13	PASS

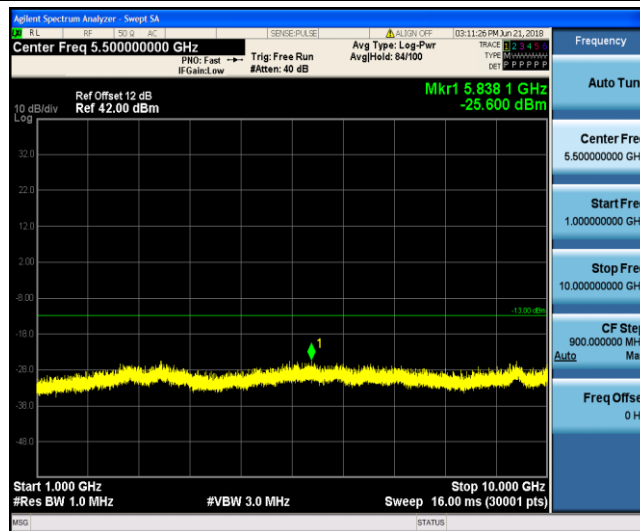


Test Graphs

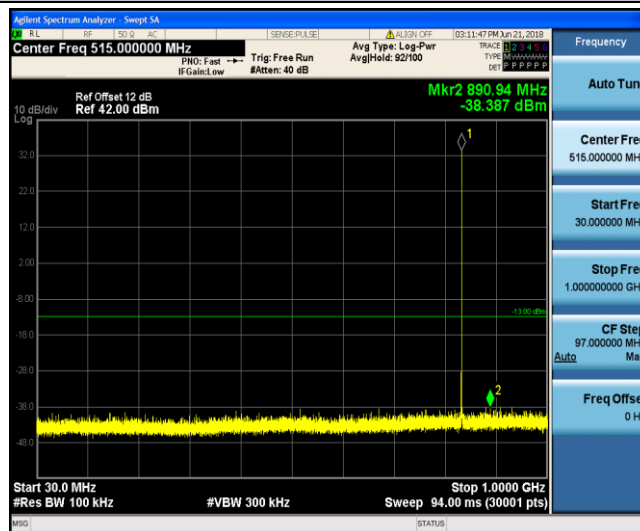
GSM850_128



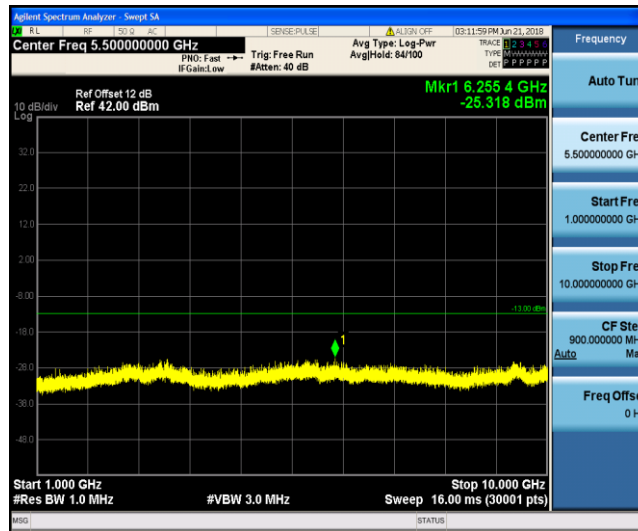
GSM850_128



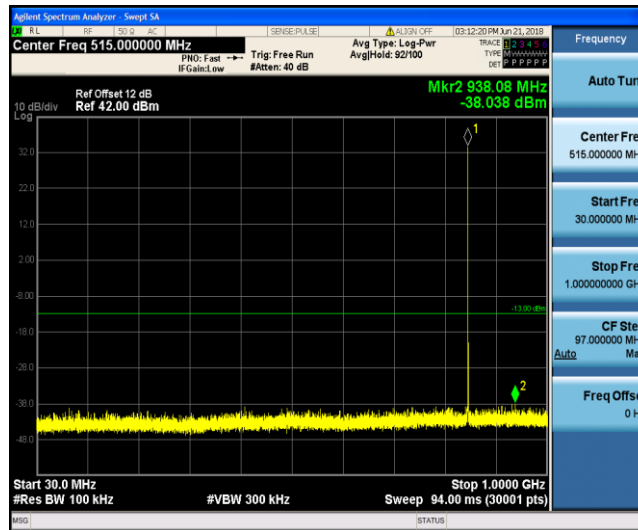
GSM850_190



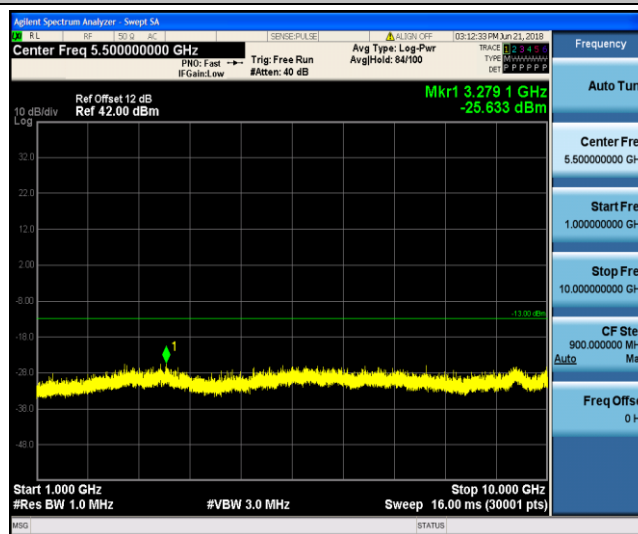
GSM850_190



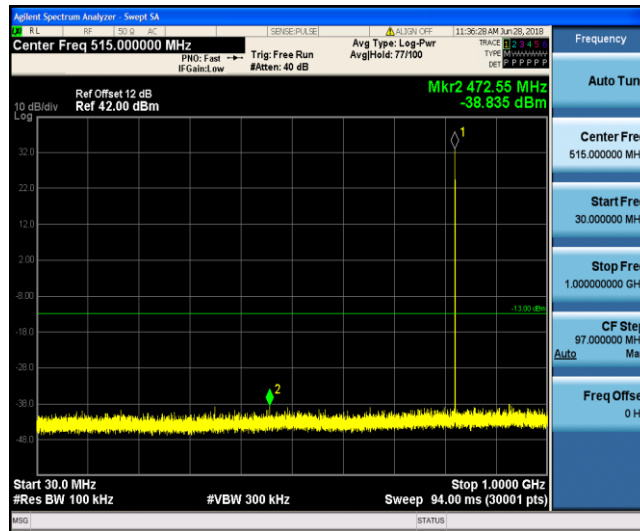
GSM850_251



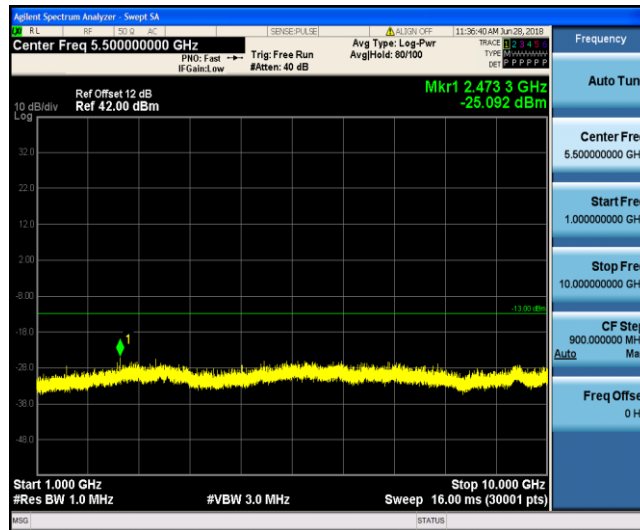
GSM850_251



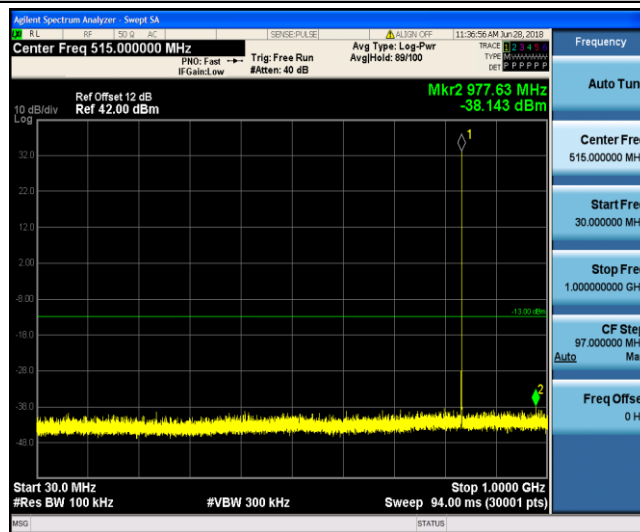
GPRS850_128



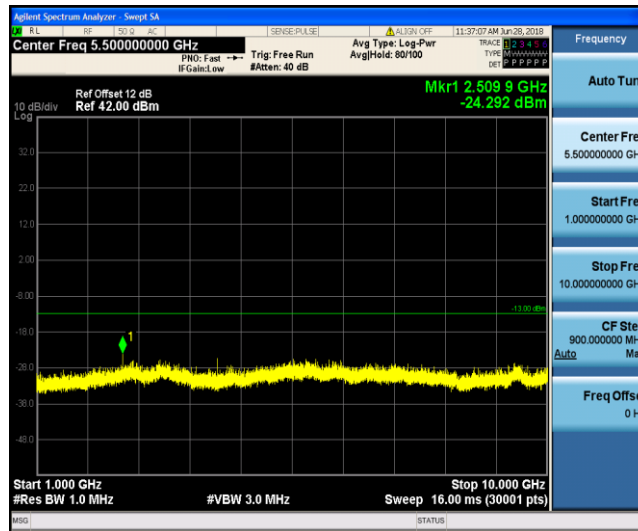
GPRS850_128



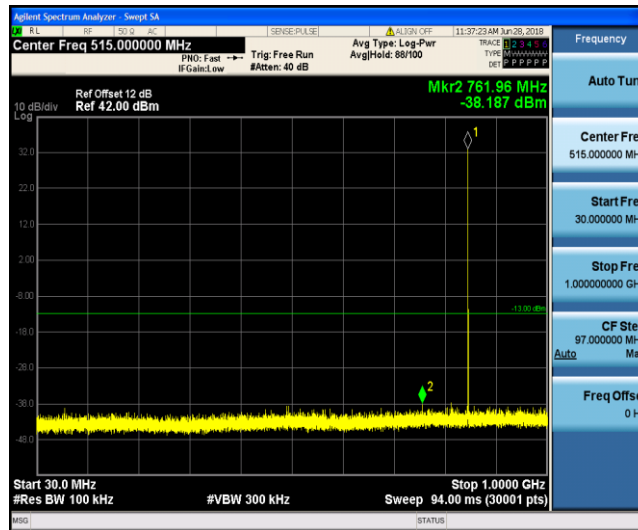
GPRS850_190



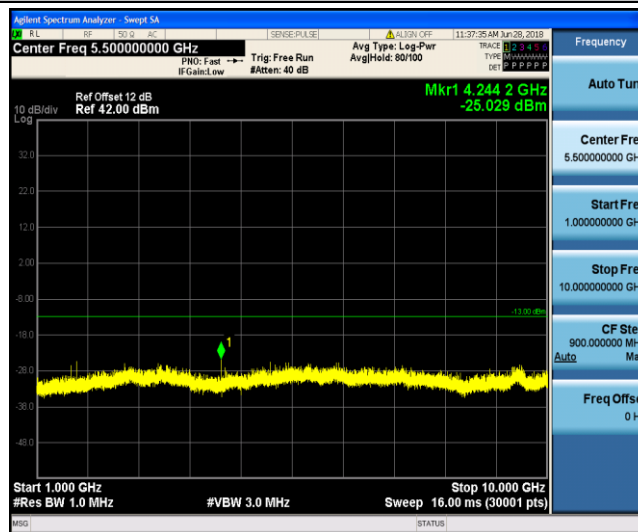
GPRS850_190



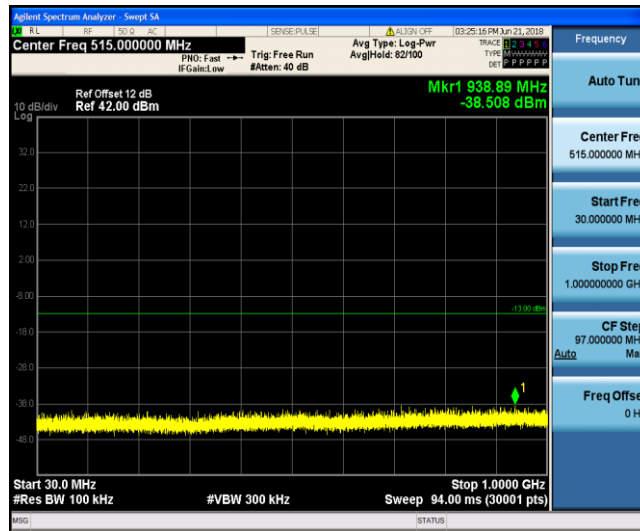
GPRS850_251



GPRS850_251



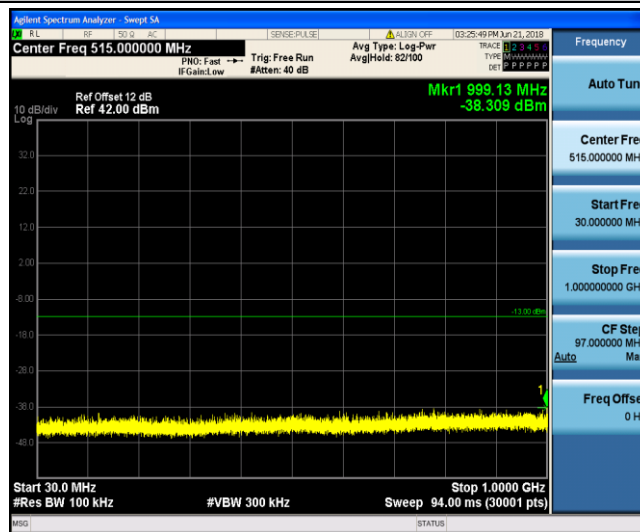
GSM1900_512



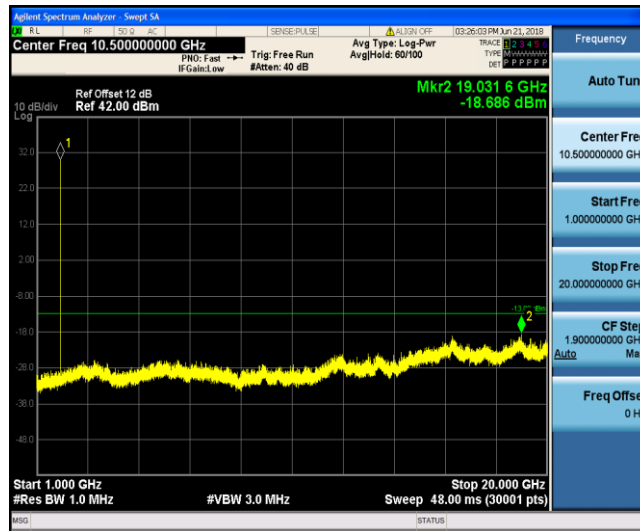
GSM1900_512



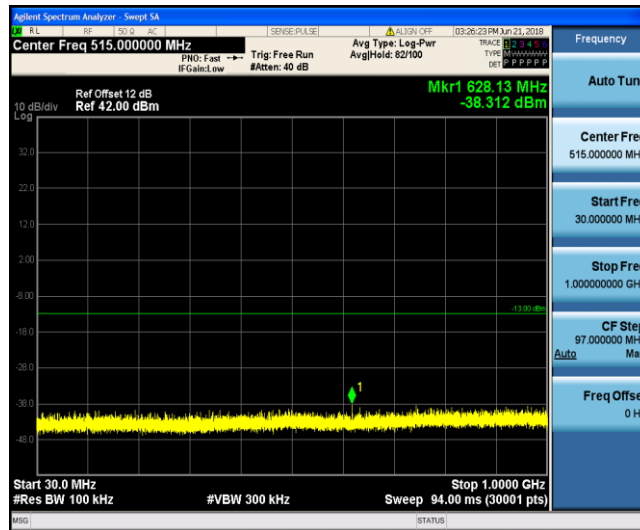
GSM1900_661



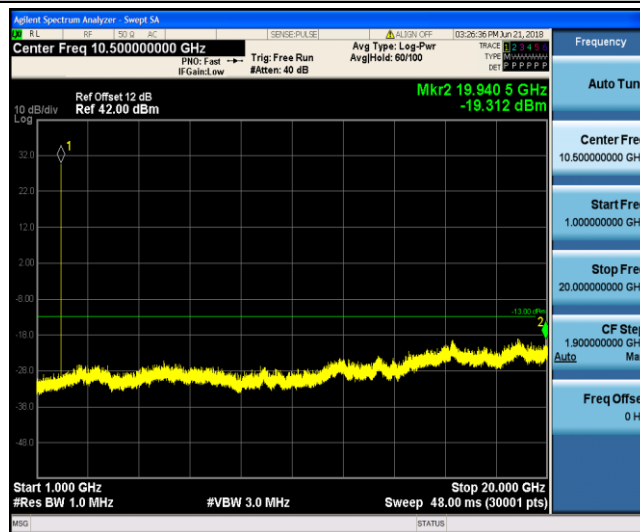
GSM1900_661



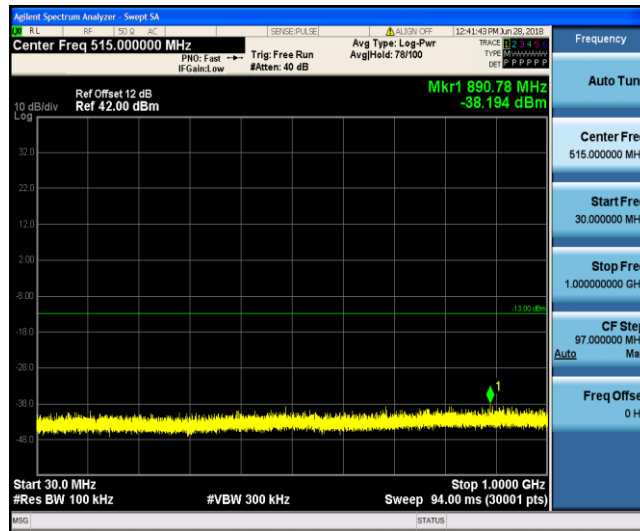
GSM1900_810



GSM1900_810



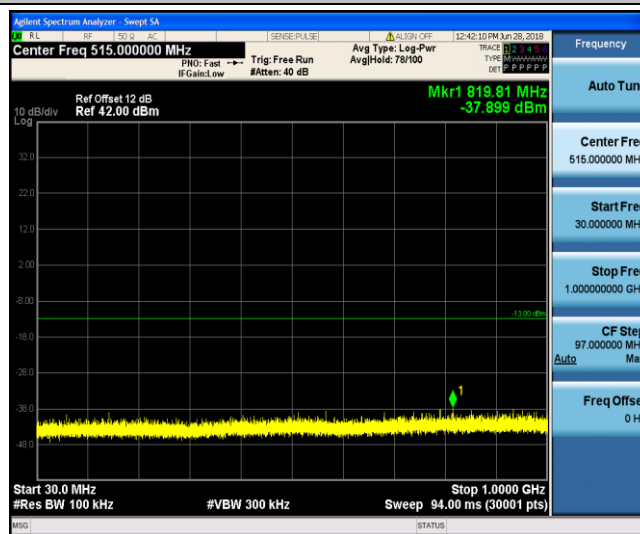
GPRS1900_512



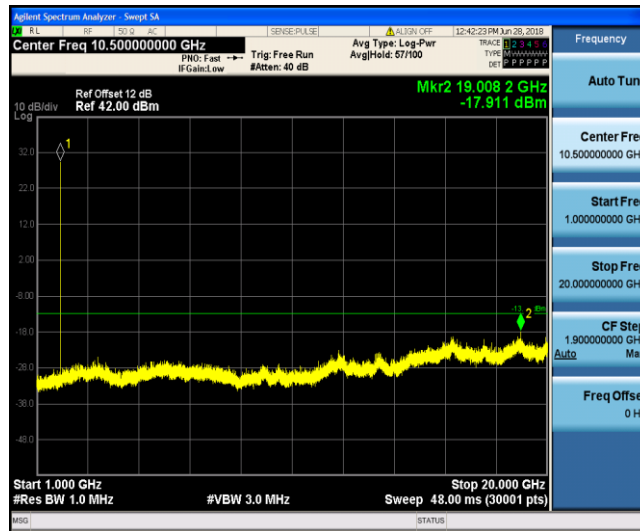
GPRS1900_512



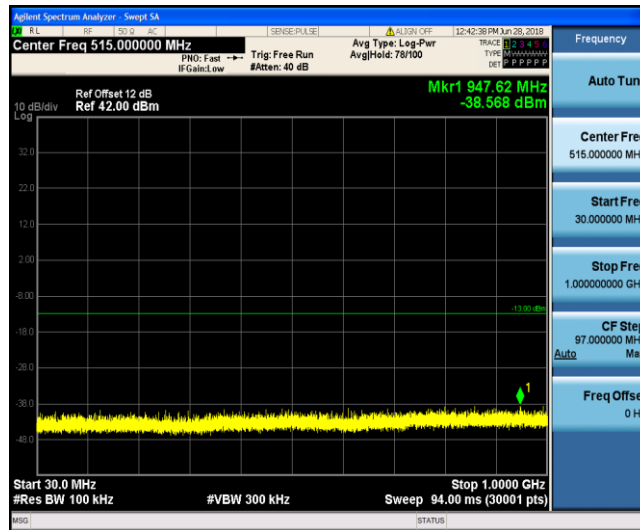
GPRS1900_661



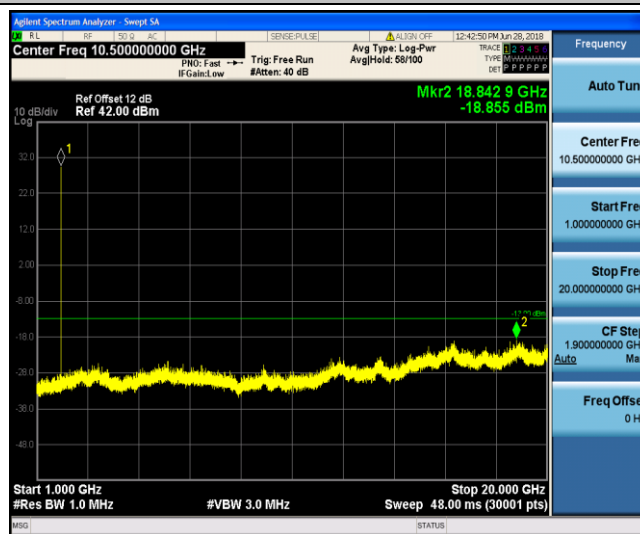
GPRS1900_661



GPRS1900_810



GPRS1900_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	20.28	0.024600	2.5	PASS
GSM850	128	VN	TN	22.63	0.027460	2.5	PASS
GSM850	128	VH	TN	20.73	0.025149	2.5	PASS
GSM850	190	VL	TN	15.88	0.018987	2.5	PASS
GSM850	190	VN	TN	21.15	0.025278	2.5	PASS
GSM850	190	VH	TN	17.40	0.020801	2.5	PASS
GSM850	251	VL	TN	15.79	0.018600	2.5	PASS
GSM850	251	VN	TN	13.20	0.015557	2.5	PASS
GSM850	251	VH	TN	24.76	0.029174	2.5	PASS
GPRS850	128	VL	TN	-6.84	-0.008305	2.5	PASS
GPRS850	128	VN	TN	4.36	0.005288	2.5	PASS
GPRS850	128	VH	TN	4.00	0.004857	2.5	PASS
GPRS850	190	VL	TN	29.15	0.034848	2.5	PASS
GPRS850	190	VN	TN	18.31	0.021882	2.5	PASS
GPRS850	190	VH	TN	20.92	0.025007	2.5	PASS
GPRS850	251	VL	TN	15.59	0.018372	2.5	PASS
GPRS850	251	VN	TN	13.46	0.015861	2.5	PASS
GPRS850	251	VH	TN	9.69	0.011411	2.5	PASS
GSM1900	512	VL	TN	42.26	0.022842	2.5	PASS
GSM1900	512	VN	TN	35.51	0.019195	2.5	PASS
GSM1900	512	VH	TN	31.35	0.016944	2.5	PASS
GSM1900	661	VL	TN	38.32	0.020385	2.5	PASS
GSM1900	661	VN	TN	47.52	0.025279	2.5	PASS
GSM1900	661	VH	TN	41.26	0.021948	2.5	PASS
GSM1900	810	VL	TN	46.49	0.024344	2.5	PASS
GSM1900	810	VN	TN	31.87	0.016686	2.5	PASS
GSM1900	810	VH	TN	44.75	0.023431	2.5	PASS
GPRS1900	512	VL	TN	13.75	0.007434	2.5	PASS
GPRS1900	512	VN	TN	31.83	0.017206	2.5	PASS
GPRS1900	512	VH	TN	20.76	0.011220	2.5	PASS
GPRS1900	661	VL	TN	35.51	0.018891	2.5	PASS
GPRS1900	661	VN	TN	34.09	0.018135	2.5	PASS
GPRS1900	661	VH	TN	40.23	0.021398	2.5	PASS
GPRS1900	810	VL	TN	38.55	0.020185	2.5	PASS
GPRS1900	810	VN	TN	38.39	0.020100	2.5	PASS
GPRS1900	810	VH	TN	43.39	0.022721	2.5	PASS



Temperature							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	VN	-30	11.07	0.013436	2.5	PASS
GSM850	128	VN	-20	9.52	0.011556	2.5	PASS
GSM850	128	VN	-10	8.72	0.010577	2.5	PASS
GSM850	128	VN	0	14.17	0.017197	2.5	PASS
GSM850	128	VN	10	16.08	0.019508	2.5	PASS
GSM850	128	VN	20	21.34	0.025893	2.5	PASS
GSM850	128	VN	30	2.07	0.002507	2.5	PASS
GSM850	128	VN	40	10.53	0.012770	2.5	PASS
GSM850	128	VN	50	2.68	0.003251	2.5	PASS
GSM850	190	VN	-30	20.15	0.024081	2.5	PASS
GSM850	190	VN	-20	12.30	0.014703	2.5	PASS
GSM850	190	VN	-10	17.01	0.020338	2.5	PASS
GSM850	190	VN	0	14.63	0.017482	2.5	PASS
GSM850	190	VN	10	13.11	0.015668	2.5	PASS
GSM850	190	VN	20	14.53	0.017366	2.5	PASS
GSM850	190	VN	30	10.01	0.011963	2.5	PASS
GSM850	190	VN	40	15.30	0.018292	2.5	PASS
GSM850	190	VN	50	18.85	0.022538	2.5	PASS
GSM850	251	VN	-30	11.91	0.014036	2.5	PASS
GSM850	251	VN	-20	12.72	0.014987	2.5	PASS
GSM850	251	VN	-10	11.82	0.013922	2.5	PASS
GSM850	251	VN	0	6.97	0.008216	2.5	PASS
GSM850	251	VN	10	17.14	0.020198	2.5	PASS
GSM850	251	VN	20	13.72	0.016166	2.5	PASS
GSM850	251	VN	30	13.69	0.016128	2.5	PASS
GSM850	251	VN	40	14.24	0.016774	2.5	PASS
GSM850	251	VN	50	9.98	0.011753	2.5	PASS
GPRS850	128	VN	-30	6.36	0.007717	2.5	PASS
GPRS850	128	VN	-20	6.42	0.007795	2.5	PASS
GPRS850	128	VN	-10	8.23	0.009989	2.5	PASS
GPRS850	128	VN	0	8.62	0.010459	2.5	PASS
GPRS850	128	VN	10	11.43	0.013867	2.5	PASS
GPRS850	128	VN	20	8.59	0.010420	2.5	PASS
GPRS850	128	VN	30	4.65	0.005641	2.5	PASS
GPRS850	128	VN	40	5.46	0.006620	2.5	PASS
GPRS850	128	VN	50	28.31	0.034354	2.5	PASS
GPRS850	190	VN	-30	20.76	0.024814	2.5	PASS
GPRS850	190	VN	-20	18.63	0.022267	2.5	PASS
GPRS850	190	VN	-10	15.59	0.018640	2.5	PASS
GPRS850	190	VN	0	37.84	0.045230	2.5	PASS
GPRS850	190	VN	10	30.67	0.036662	2.5	PASS
GPRS850	190	VN	20	32.64	0.039016	2.5	PASS
GPRS850	190	VN	30	13.95	0.016672	2.5	PASS
GPRS850	190	VN	40	17.89	0.021380	2.5	PASS
GPRS850	190	VN	50	20.11	0.024043	2.5	PASS
GPRS850	251	VN	-30	5.88	0.006923	2.5	PASS
GPRS850	251	VN	-20	25.12	0.029593	2.5	PASS
GPRS850	251	VN	-10	27.83	0.032788	2.5	PASS
GPRS850	251	VN	0	30.06	0.035413	2.5	PASS
GPRS850	251	VN	10	10.20	0.012020	2.5	PASS
GPRS850	251	VN	20	7.30	0.008596	2.5	PASS



GPRS850	251	VN	30	2.39	0.002815	2.5	PASS
GPRS850	251	VN	40	7.81	0.009205	2.5	PASS
GPRS850	251	VN	50	11.40	0.013427	2.5	PASS
GSM1900	512	VN	-30	27.96	0.015112	2.5	PASS
GSM1900	512	VN	-20	32.09	0.017345	2.5	PASS
GSM1900	512	VN	-10	29.90	0.016159	2.5	PASS
GSM1900	512	VN	0	27.70	0.014972	2.5	PASS
GSM1900	512	VN	10	52.95	0.028618	2.5	PASS
GSM1900	512	VN	20	49.49	0.026751	2.5	PASS
GSM1900	512	VN	30	41.26	0.022301	2.5	PASS
GSM1900	512	VN	40	49.11	0.026541	2.5	PASS
GSM1900	512	VN	50	41.78	0.022580	2.5	PASS
GSM1900	661	VN	-30	37.06	0.019715	2.5	PASS
GSM1900	661	VN	-20	30.32	0.016126	2.5	PASS
GSM1900	661	VN	-10	45.75	0.024335	2.5	PASS
GSM1900	661	VN	0	45.56	0.024232	2.5	PASS
GSM1900	661	VN	10	53.85	0.028645	2.5	PASS
GSM1900	661	VN	20	29.06	0.015456	2.5	PASS
GSM1900	661	VN	30	53.72	0.028576	2.5	PASS
GSM1900	661	VN	40	52.11	0.027718	2.5	PASS
GSM1900	661	VN	50	56.56	0.030088	2.5	PASS
GSM1900	810	VN	-30	48.65	0.025476	2.5	PASS
GSM1900	810	VN	-20	37.90	0.019847	2.5	PASS
GSM1900	810	VN	-10	42.97	0.022501	2.5	PASS
GSM1900	810	VN	0	41.49	0.021723	2.5	PASS
GSM1900	810	VN	10	33.03	0.017294	2.5	PASS
GSM1900	810	VN	20	36.87	0.019306	2.5	PASS
GSM1900	810	VN	30	30.70	0.016077	2.5	PASS
GSM1900	810	VN	40	48.91	0.025612	2.5	PASS
GSM1900	810	VN	50	57.11	0.029906	2.5	PASS
GPRS1900	512	VN	-30	25.60	0.013838	2.5	PASS
GPRS1900	512	VN	-20	41.20	0.022266	2.5	PASS
GPRS1900	512	VN	-10	39.49	0.021341	2.5	PASS
GPRS1900	512	VN	0	53.72	0.029037	2.5	PASS
GPRS1900	512	VN	10	45.30	0.024482	2.5	PASS
GPRS1900	512	VN	20	41.65	0.022510	2.5	PASS
GPRS1900	512	VN	30	47.91	0.025896	2.5	PASS
GPRS1900	512	VN	40	36.00	0.019457	2.5	PASS
GPRS1900	512	VN	50	28.41	0.015356	2.5	PASS
GPRS1900	661	VN	-30	42.91	0.022823	2.5	PASS
GPRS1900	661	VN	-20	38.39	0.020419	2.5	PASS
GPRS1900	661	VN	-10	53.47	0.028439	2.5	PASS
GPRS1900	661	VN	0	54.63	0.029057	2.5	PASS
GPRS1900	661	VN	10	50.69	0.026962	2.5	PASS
GPRS1900	661	VN	20	50.33	0.026773	2.5	PASS
GPRS1900	661	VN	30	54.82	0.029160	2.5	PASS
GPRS1900	661	VN	40	48.56	0.025829	2.5	PASS
GPRS1900	661	VN	50	42.81	0.022772	2.5	PASS
GPRS1900	810	VN	-30	41.33	0.021639	2.5	PASS
GPRS1900	810	VN	-20	49.43	0.025882	2.5	PASS
GPRS1900	810	VN	-10	52.66	0.027573	2.5	PASS
GPRS1900	810	VN	0	49.46	0.025899	2.5	PASS
GPRS1900	810	VN	10	46.62	0.024411	2.5	PASS
GPRS1900	810	VN	20	35.26	0.018461	2.5	PASS
GPRS1900	810	VN	30	31.64	0.016567	2.5	PASS



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GPRS1900	810	VN	40	34.74	0.018190	2.5	PASS
GPRS1900	810	VN	50	36.81	0.019272	2.5	PASS

-----End of the Report -----