



## 8.1 Appendix A: Conducted Output Power

### Test Result

Band	Channel	PCL	Power(dBm)	Limit(dBm)	Verdict
GSM850	128	5	33.43	38.5	PASS
GSM850	190	5	33.33	38.5	PASS
GSM850	251	5	33.15	38.5	PASS
GSM1900	512	0	30.28	33	PASS
GSM1900	661	0	30.51	33	PASS
GSM1900	810	0	30.82	33	PASS



Band	Channel	PCL	Slot	Power(dBm)	Limit(dBm)	Verdict
GPRS850	128	5	1	33.57	38.5	PASS
GPRS850	128	5	2	33.11	38.5	PASS
GPRS850	128	5	3	32.37	38.5	PASS
GPRS850	128	5	4	31.22	38.5	PASS
GPRS850	190	5	1	33.45	38.5	PASS
GPRS850	190	5	2	33.02	38.5	PASS
GPRS850	190	5	3	31.80	38.5	PASS
GPRS850	190	5	4	30.88	38.5	PASS
GPRS850	251	5	1	33.25	38.5	PASS
GPRS850	251	5	2	32.75	38.5	PASS
GPRS850	251	5	3	31.56	38.5	PASS
GPRS850	251	5	4	30.66	38.5	PASS
GPRS1900	512	0	1	30.23	33	PASS
GPRS1900	512	0	2	29.68	33	PASS
GPRS1900	512	0	3	28.38	33	PASS
GPRS1900	512	0	4	26.52	33	PASS
GPRS1900	661	0	1	30.40	33	PASS
GPRS1900	661	0	2	30.06	33	PASS
GPRS1900	661	0	3	28.67	33	PASS
GPRS1900	661	0	4	26.93	33	PASS
GPRS1900	810	0	1	30.81	33	PASS
GPRS1900	810	0	2	30.58	33	PASS
GPRS1900	810	0	3	29.60	33	PASS
GPRS1900	810	0	4	27.92	33	PASS



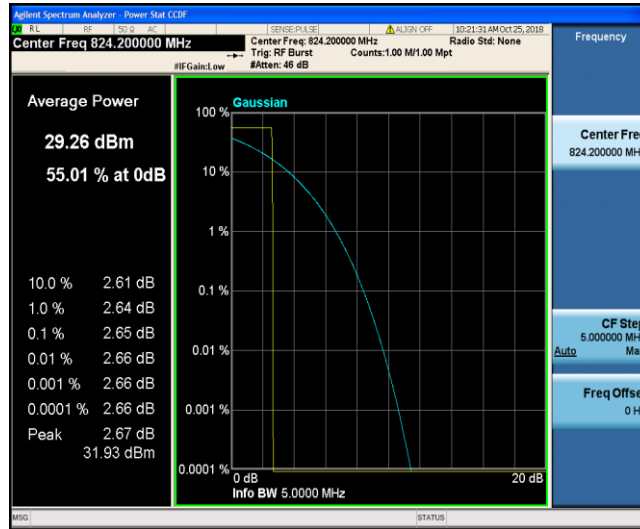
## 8.2 Appendix B: Peak-to-Average Ratio

### Test Result

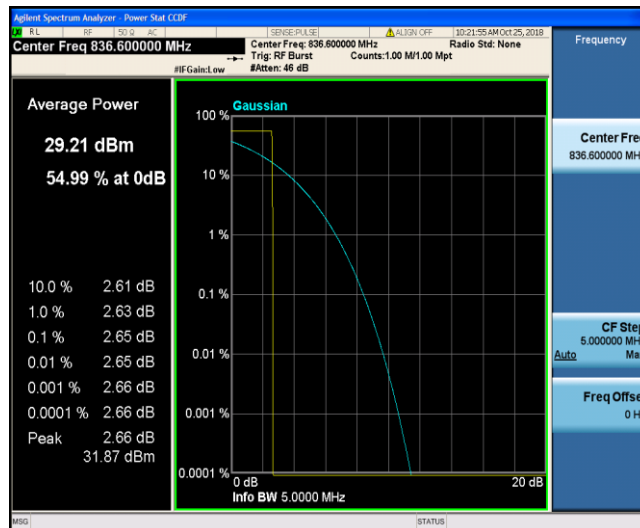
Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
GSM850	128	2.65	13	PASS
GSM850	190	2.65	13	PASS
GSM850	251	2.65	13	PASS
GPRS850	128	2.65	13	PASS
GPRS850	190	2.64	13	PASS
GPRS850	251	2.64	13	PASS
GSM1900	512	2.67	13	PASS
GSM1900	661	2.72	13	PASS
GSM1900	810	2.67	13	PASS
GPRS1900	512	2.67	13	PASS
GPRS1900	661	2.67	13	PASS
GPRS1900	810	2.66	13	PASS



Test Graphs



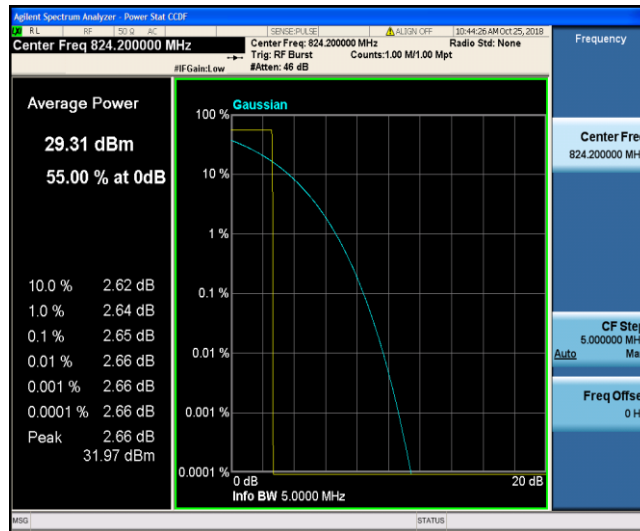
GSM850\_128



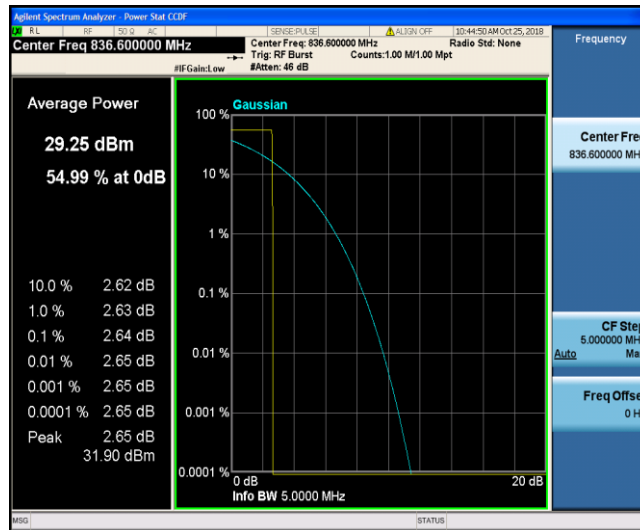
GSM850\_190



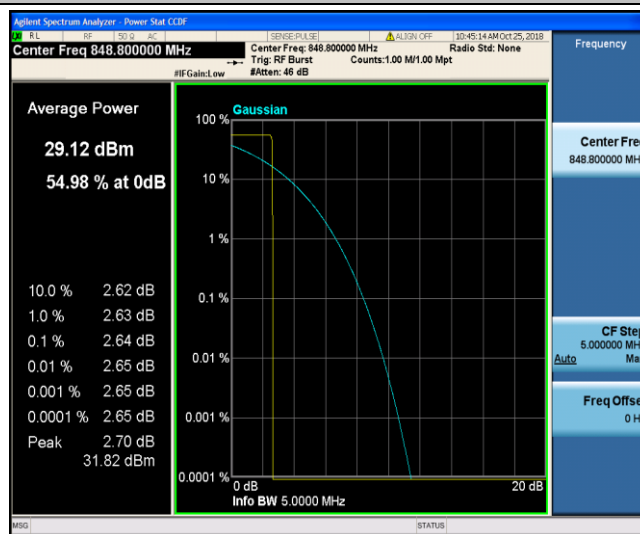
GSM850\_251



GPRS850\_128



GPRS850\_190



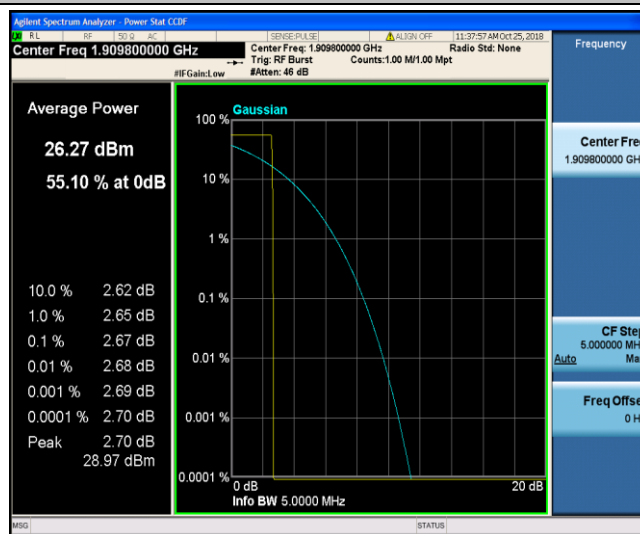
GPRS850\_251



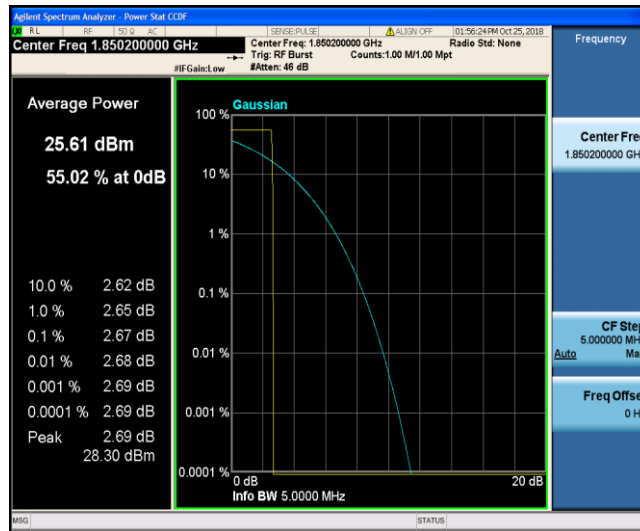
GSM1900\_512



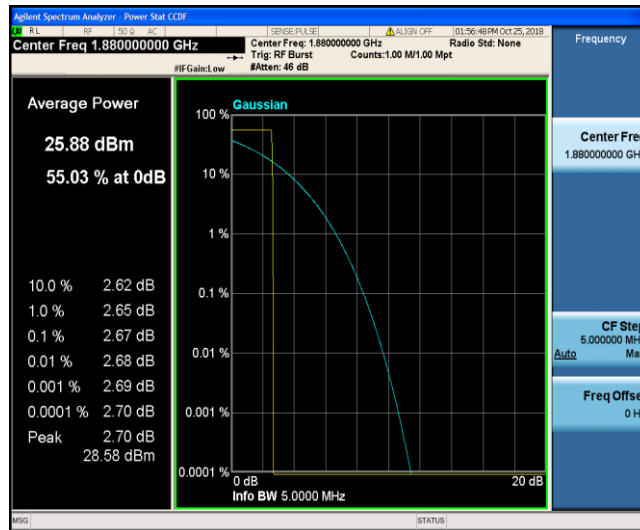
GSM1900\_661



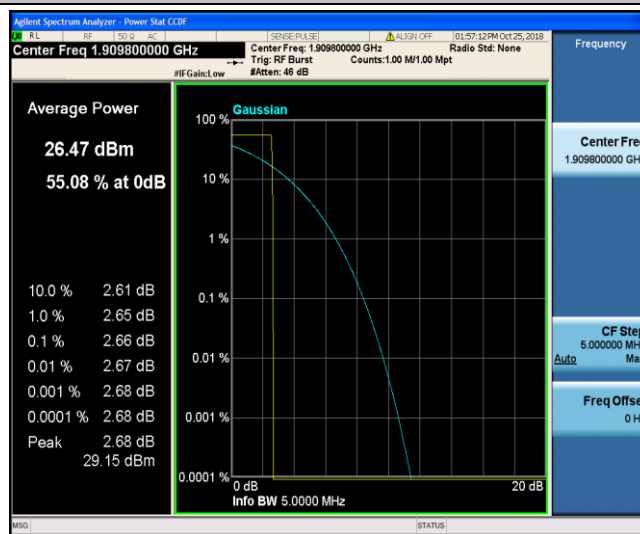
GSM1900\_810



GPRS1900\_512



GPRS1900\_661



GPRS1900\_810



### 8.3 Appendix C: 26dB Bandwidth and Occupied Bandwidth

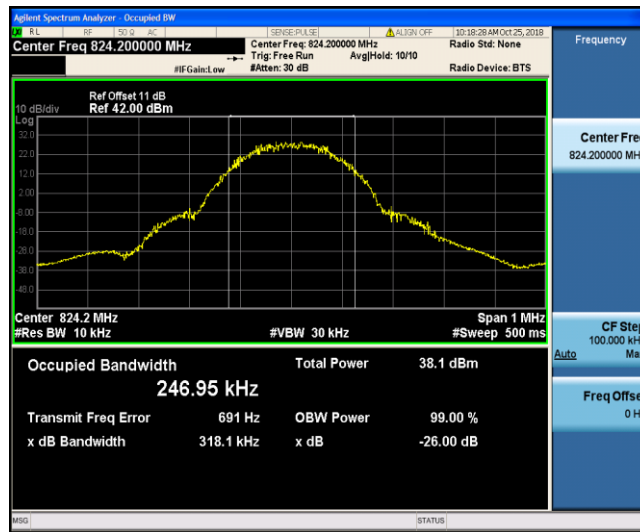
#### Test Result

Band	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
GSM850	128	246.95	318.1	---	PASS
GSM850	190	245.79	312.8	---	PASS
GSM850	251	243.94	314.7	---	PASS
GPRS850	128	244.31	311.5	---	PASS
GPRS850	190	246.56	313.2	---	PASS
GPRS850	251	247.41	317.2	---	PASS
GSM1900	512	244.09	311.0	---	PASS
GSM1900	661	245.59	316.3	---	PASS
GSM1900	810	246.15	312.9	---	PASS
GPRS1900	512	245.05	312.8	---	PASS
GPRS1900	661	245.92	318.2	---	PASS
GPRS1900	810	245.29	317.5	---	PASS

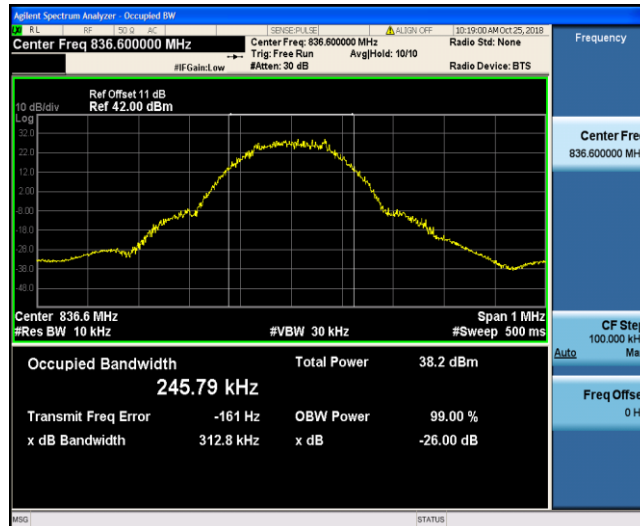




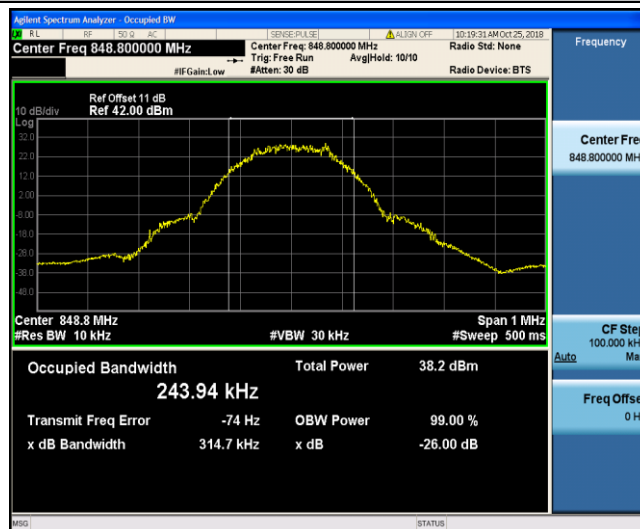
Test Graphs



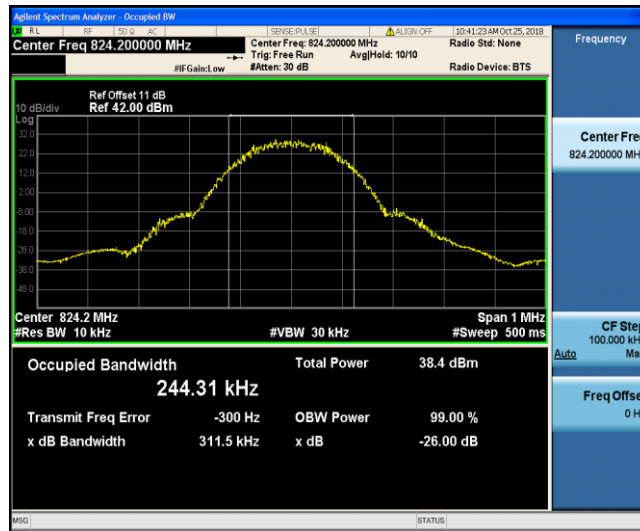
GSM850\_128



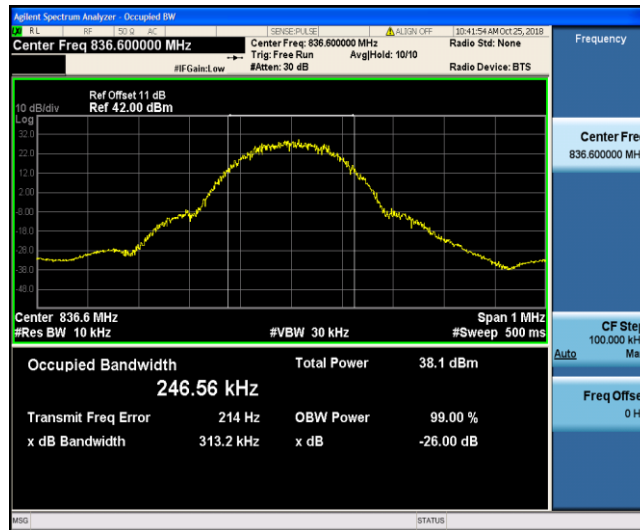
GSM850\_190



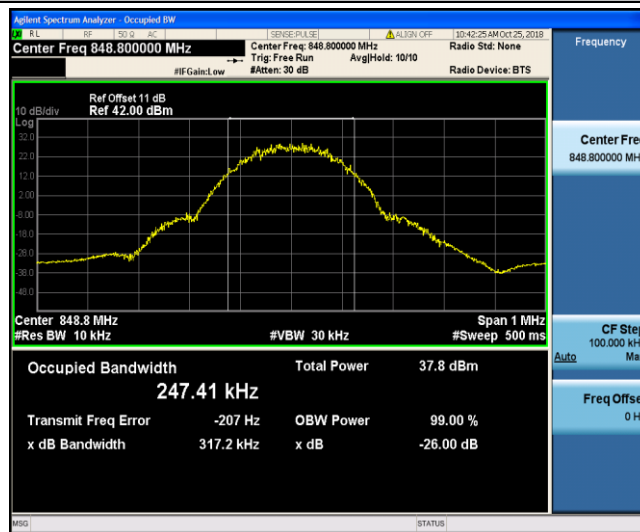
GSM850\_251



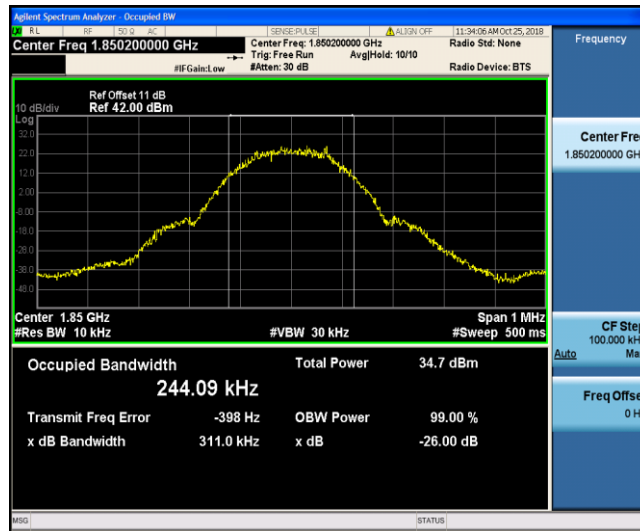
GPRS850\_128



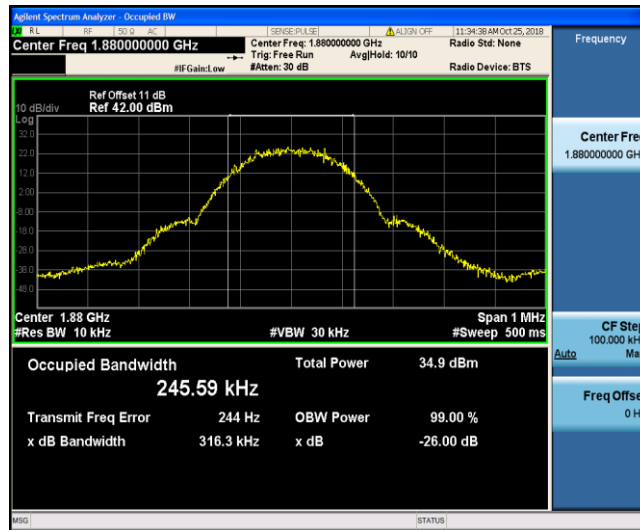
GPRS850\_190



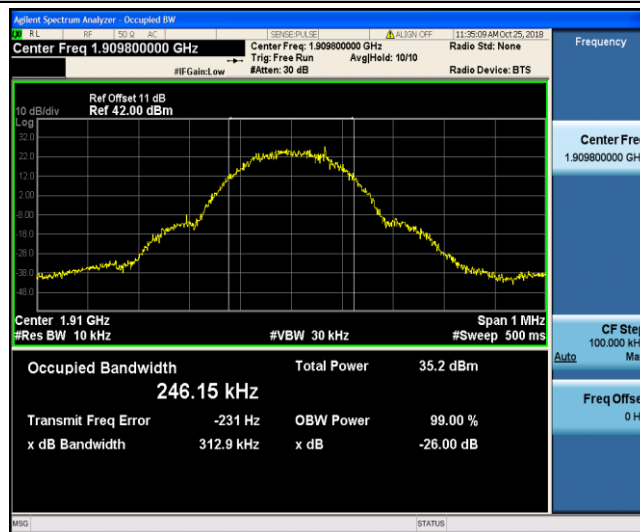
GPRS850\_251



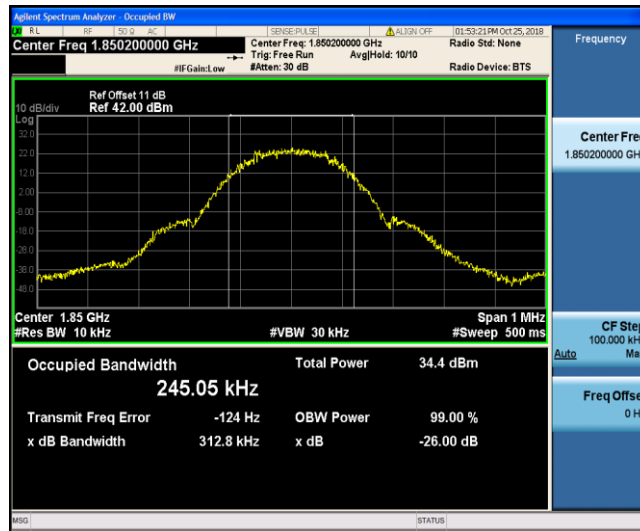
GSM1900\_512



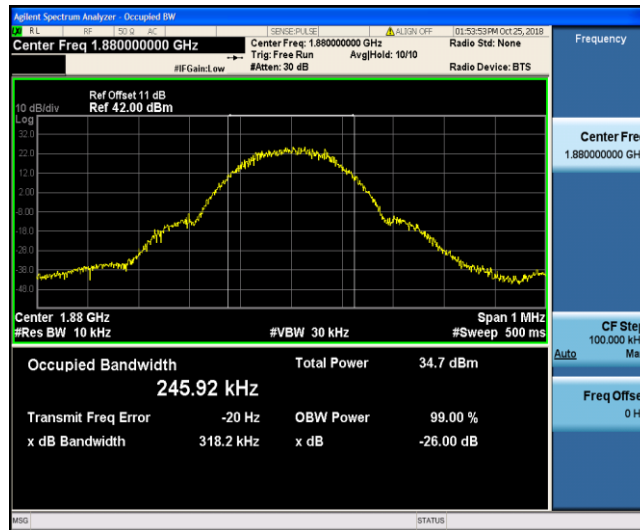
GSM1900\_661



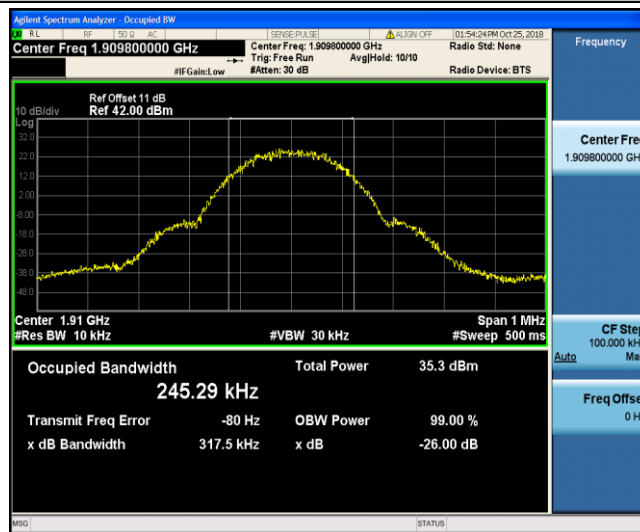
GSM1900\_810



GPRS1900\_512



GPRS1900\_661



GPRS1900\_810



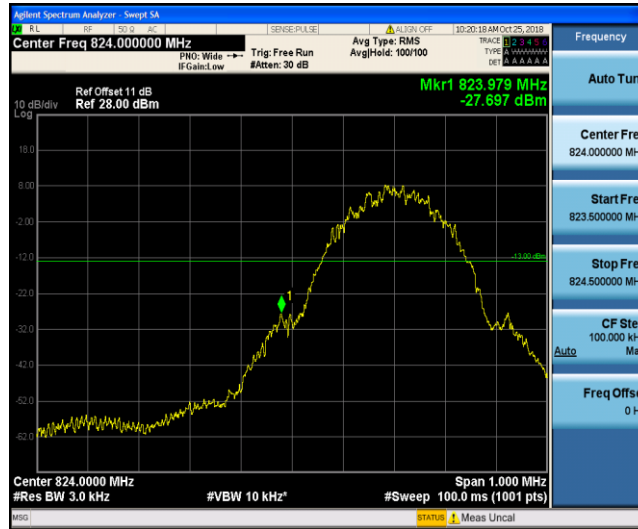
#### 8.4 Appendix D: Band Edge

##### Test Result

Band	Channel	Value(dBm)	Limit(dBm)	Verdict
GSM850	128	-27.70	-13	PASS
GSM850	251	-26.84	-13	PASS
GPRS850	128	-28.04	-13	PASS
GPRS850	251	-27.78	-13	PASS
GSM1900	512	-31.86	-13	PASS
GSM1900	810	-30.38	-13	PASS
GPRS1900	512	-31.14	-13	PASS
GPRS1900	810	-30.63	-13	PASS



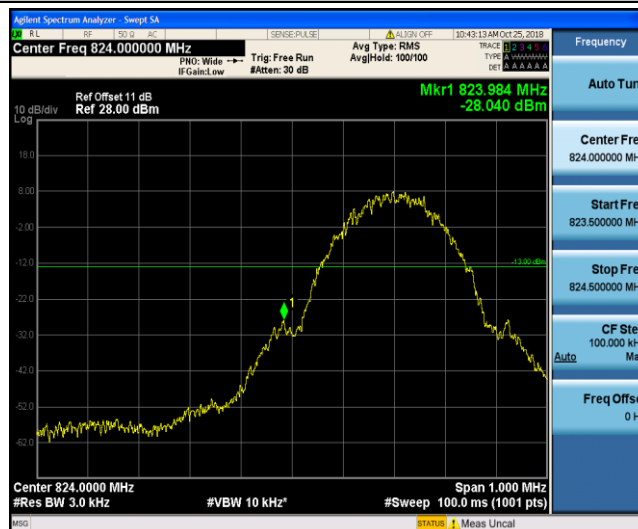
Test Graphs



GSM850\_128



GSM850\_251



GPRS850\_128



GPRS850\_251



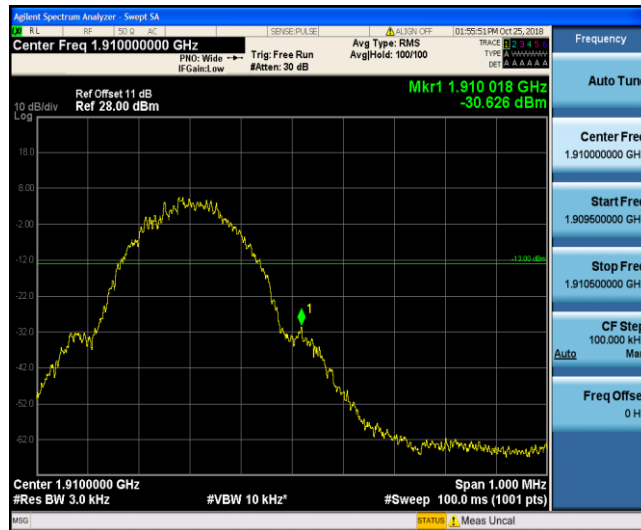
GSM1900\_512



GSM1900\_810



GPRS1900\_512



GPRS1900\_810





## 8.5 Appendix E: Conducted Spurious Emission

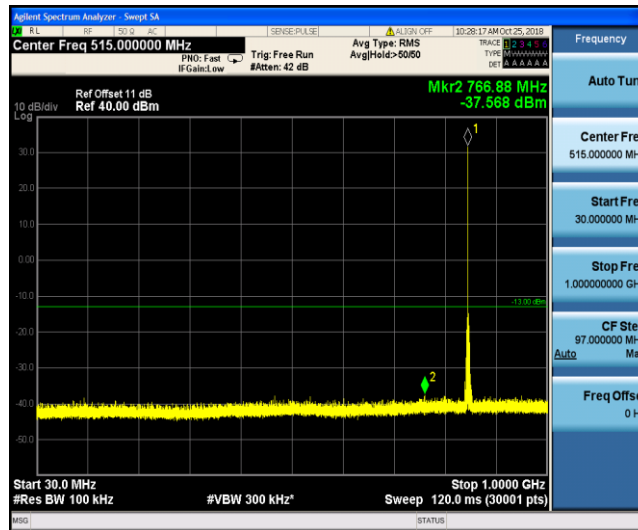
### Test Result

Band	Channel	Frequency Rang(Mhz)	Value(dBm)	Limit(dBm)	Verdict
GSM850	128	30~1000	-37.60	-13	PASS
GSM850	128	1000~10000	-34.43	-13	PASS
GSM850	190	30~1000	-37.94	-13	PASS
GSM850	190	1000~10000	-34.28	-13	PASS
GSM850	251	30~1000	-37.57	-13	PASS
GSM850	251	1000~10000	-34.40	-13	PASS
GPRS850	128	30~1000	-37.60	-13	PASS
GPRS850	128	1000~10000	-34.46	-13	PASS
GPRS850	190	30~1000	-37.10	-13	PASS
GPRS850	190	1000~10000	-34.13	-13	PASS
GPRS850	251	30~1000	-37.17	-13	PASS
GPRS850	251	1000~10000	-33.73	-13	PASS
GSM1900	512	30~1000	-37.53	-13	PASS
GSM1900	512	1000~20000	-27.48	-13	PASS
GSM1900	661	30~1000	-37.97	-13	PASS
GSM1900	661	1000~20000	-27.75	-13	PASS
GSM1900	810	30~1000	-38.52	-13	PASS
GSM1900	810	1000~20000	-27.71	-13	PASS
GPRS1900	512	30~1000	-36.68	-13	PASS
GPRS1900	512	1000~20000	-27.70	-13	PASS
GPRS1900	661	30~1000	-36.62	-13	PASS
GPRS1900	661	1000~20000	-27.67	-13	PASS
GPRS1900	810	30~1000	-37.38	-13	PASS
GPRS1900	810	1000~20000	-27.52	-13	PASS

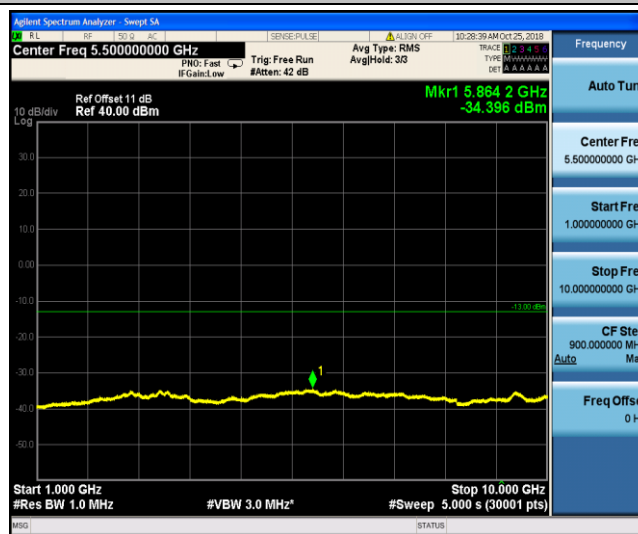




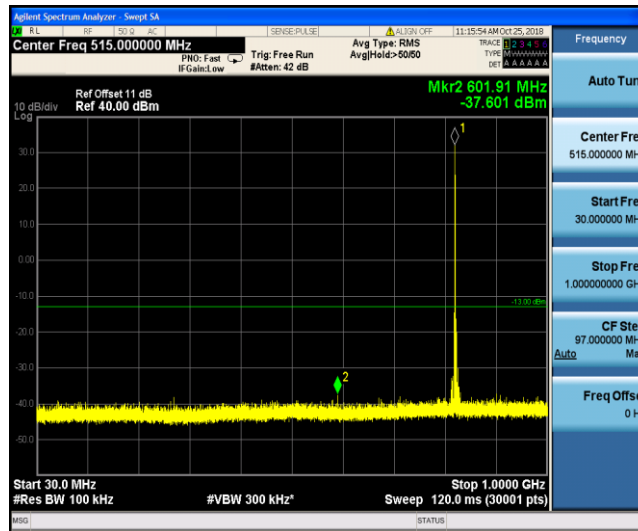
GSM850\_190



GSM850\_251



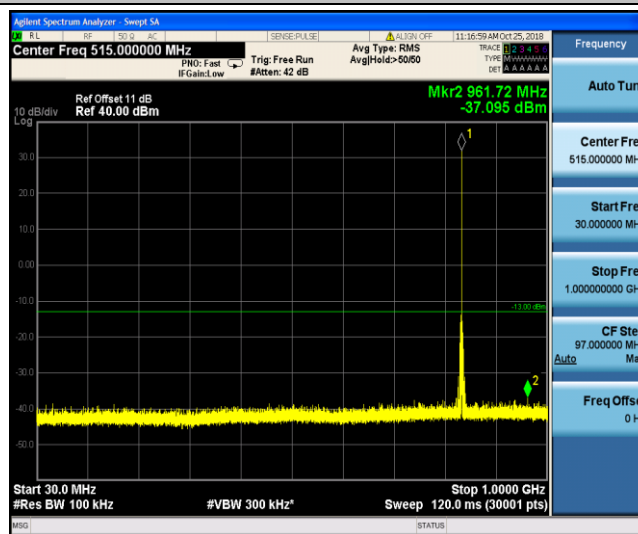
GSM850\_251



GPRS850\_128



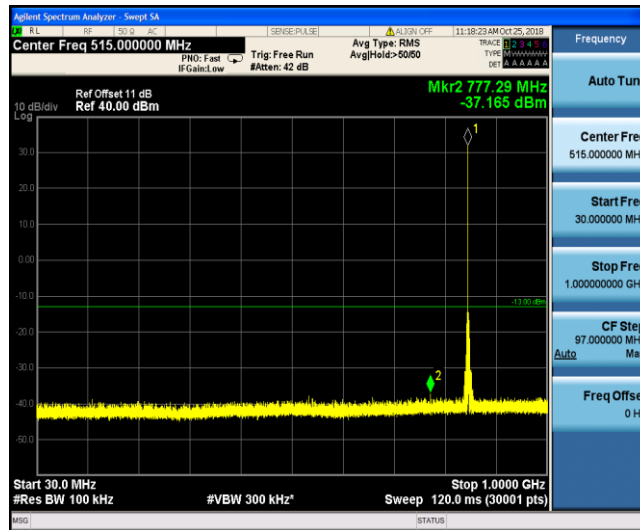
GPRS850\_128



GPRS850\_190



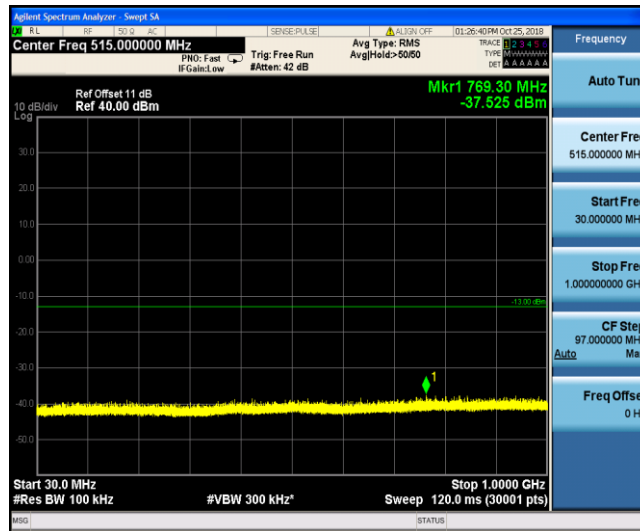
GPRS850\_190



GPRS850\_251



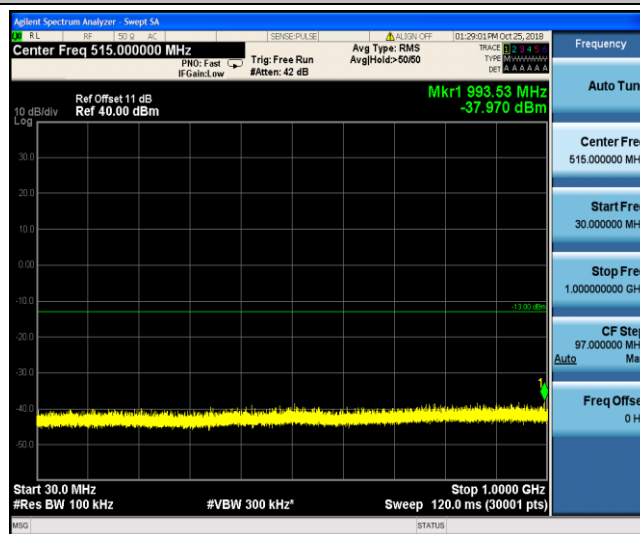
GPRS850\_251



GSM1900\_512



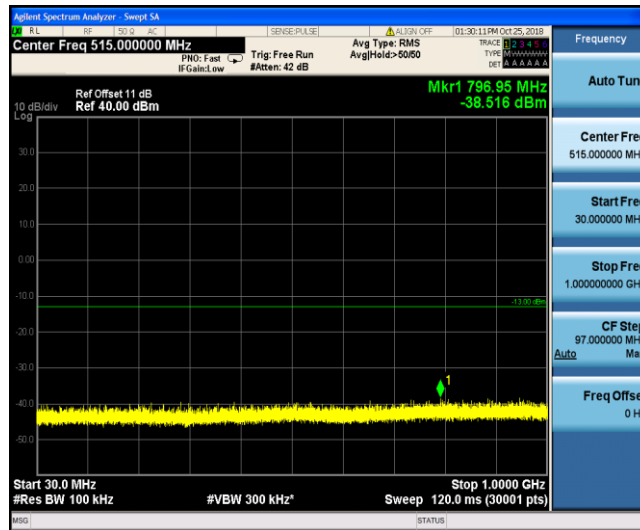
GSM1900\_512



GSM1900\_661



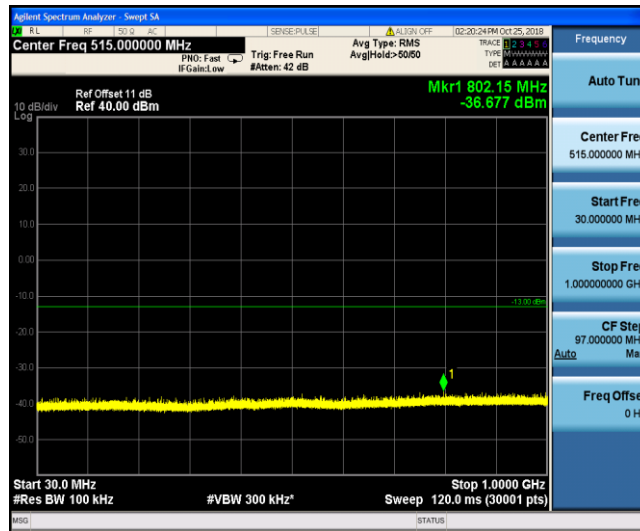
GSM1900\_661



GSM1900\_810



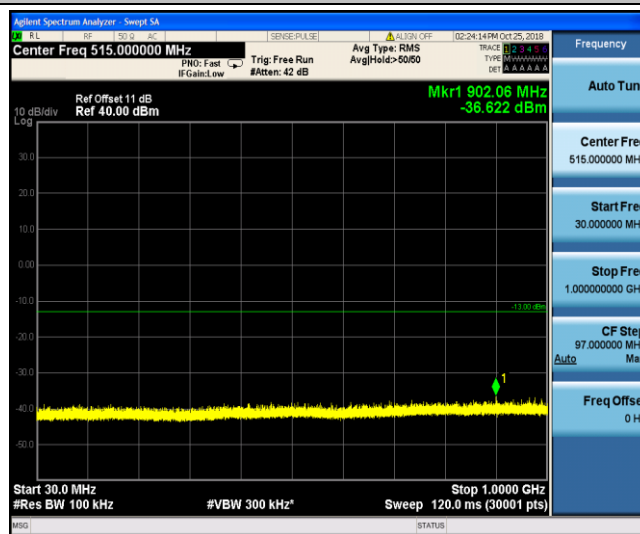
GSM1900\_810



GPRS1900\_512



GPRS1900\_512

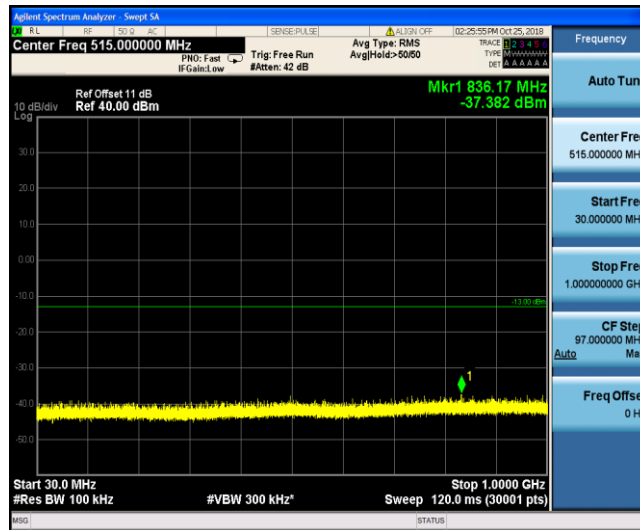


GPRS1900\_661





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	8.20	0.009950	2.5	PASS
GSM850	128	VN	TN	5.65	0.006855	2.5	PASS
GSM850	128	VH	TN	8.56	0.010381	2.5	PASS
GSM850	190	VL	TN	5.36	0.006406	2.5	PASS
GSM850	190	VN	TN	5.39	0.006445	2.5	PASS
GSM850	190	VH	TN	4.33	0.005171	2.5	PASS
GSM850	251	VL	TN	6.26	0.007379	2.5	PASS
GSM850	251	VN	TN	7.78	0.009167	2.5	PASS
GSM850	251	VH	TN	4.68	0.005515	2.5	PASS
GPRS850	128	VL	TN	2.23	0.002703	2.5	PASS
GPRS850	128	VN	TN	6.91	0.008383	2.5	PASS
GPRS850	128	VH	TN	8.10	0.009832	2.5	PASS
GPRS850	190	VL	TN	2.07	0.002470	2.5	PASS
GPRS850	190	VN	TN	7.20	0.008606	2.5	PASS
GPRS850	190	VH	TN	4.36	0.005210	2.5	PASS
GPRS850	251	VL	TN	6.07	0.007151	2.5	PASS
GPRS850	251	VN	TN	1.97	0.002320	2.5	PASS
GPRS850	251	VH	TN	7.65	0.009015	2.5	PASS
GSM1900	512	VL	TN	-25.15	-0.013593	2.5	PASS
GSM1900	512	VN	TN	-22.31	-0.012058	2.5	PASS
GSM1900	512	VH	TN	-15.40	-0.008324	2.5	PASS
GSM1900	661	VL	TN	-20.31	-0.010802	2.5	PASS
GSM1900	661	VN	TN	-22.57	-0.012004	2.5	PASS
GSM1900	661	VH	TN	-19.95	-0.010613	2.5	PASS
GSM1900	810	VL	TN	-15.24	-0.007979	2.5	PASS
GSM1900	810	VN	TN	-13.85	-0.007252	2.5	PASS
GSM1900	810	VH	TN	-13.01	-0.006813	2.5	PASS
GPRS1900	512	VL	TN	-47.23	-0.025529	2.5	PASS
GPRS1900	512	VN	TN	-19.27	-0.010418	2.5	PASS
GPRS1900	512	VH	TN	-26.12	-0.014117	2.5	PASS
GPRS1900	661	VL	TN	-21.08	-0.011214	2.5	PASS
GPRS1900	661	VN	TN	-43.81	-0.023304	2.5	PASS
GPRS1900	661	VH	TN	-16.53	-0.008793	2.5	PASS
GPRS1900	810	VL	TN	-24.80	-0.012983	2.5	PASS
GPRS1900	810	VN	TN	-3.26	-0.001707	2.5	PASS
GPRS1900	810	VH	TN	-12.01	-0.006289	2.5	PASS



Temperature							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	VN	-30	2.36	0.002860	2.5	PASS
GSM850	128	VN	-20	2.00	0.002429	2.5	PASS
GSM850	128	VN	-10	10.91	0.013240	2.5	PASS
GSM850	128	VN	0	5.07	0.006150	2.5	PASS
GSM850	128	VN	10	-7.65	-0.009284	2.5	PASS
GSM850	128	VN	20	3.91	0.004740	2.5	PASS
GSM850	128	VN	30	-2.74	-0.003330	2.5	PASS
GSM850	128	VN	40	-0.61	-0.000744	2.5	PASS
GSM850	128	VN	50	-1.87	-0.002272	2.5	PASS
GSM850	190	VN	-30	5.46	0.006522	2.5	PASS
GSM850	190	VN	-20	6.81	0.008143	2.5	PASS
GSM850	190	VN	-10	5.75	0.006869	2.5	PASS
GSM850	190	VN	0	3.65	0.004361	2.5	PASS
GSM850	190	VN	10	-0.94	-0.001119	2.5	PASS
GSM850	190	VN	20	0.29	0.000347	2.5	PASS
GSM850	190	VN	30	1.61	0.001930	2.5	PASS
GSM850	190	VN	40	5.81	0.006947	2.5	PASS
GSM850	190	VN	50	0.94	0.001119	2.5	PASS
GSM850	251	VN	-30	7.07	0.008330	2.5	PASS
GSM850	251	VN	-20	6.59	0.007760	2.5	PASS
GSM850	251	VN	-10	6.55	0.007722	2.5	PASS
GSM850	251	VN	0	3.91	0.004602	2.5	PASS
GSM850	251	VN	10	-2.36	-0.002777	2.5	PASS
GSM850	251	VN	20	-0.42	-0.000494	2.5	PASS
GSM850	251	VN	30	1.94	0.002282	2.5	PASS
GSM850	251	VN	40	5.97	0.007037	2.5	PASS
GSM850	251	VN	50	-0.26	-0.000304	2.5	PASS
GPRS850	128	VN	-30	-35.29	-0.042815	2.5	PASS
GPRS850	128	VN	-20	6.68	0.008109	2.5	PASS
GPRS850	128	VN	-10	7.04	0.008540	2.5	PASS
GPRS850	128	VN	0	2.16	0.002625	2.5	PASS
GPRS850	128	VN	10	4.97	0.006033	2.5	PASS
GPRS850	128	VN	20	13.56	0.016452	2.5	PASS
GPRS850	128	VN	30	13.72	0.016648	2.5	PASS
GPRS850	128	VN	40	12.72	0.015434	2.5	PASS
GPRS850	128	VN	50	10.88	0.013201	2.5	PASS
GPRS850	190	VN	-30	13.66	0.016324	2.5	PASS
GPRS850	190	VN	-20	1.65	0.001968	2.5	PASS
GPRS850	190	VN	-10	10.88	0.013005	2.5	PASS
GPRS850	190	VN	0	8.07	0.009648	2.5	PASS
GPRS850	190	VN	10	4.13	0.004940	2.5	PASS
GPRS850	190	VN	20	14.59	0.017443	2.5	PASS
GPRS850	190	VN	30	12.59	0.015051	2.5	PASS
GPRS850	190	VN	40	9.52	0.011385	2.5	PASS
GPRS850	190	VN	50	5.33	0.006368	2.5	PASS
GPRS850	251	VN	-30	5.68	0.006695	2.5	PASS
GPRS850	251	VN	-20	4.36	0.005135	2.5	PASS
GPRS850	251	VN	-10	10.43	0.012286	2.5	PASS
GPRS850	251	VN	0	5.91	0.006961	2.5	PASS
GPRS850	251	VN	10	-16.14	-0.019019	2.5	PASS
GPRS850	251	VN	20	7.68	0.009053	2.5	PASS



GPRS850	251	VN	30	9.46	0.011145	2.5	PASS
GPRS850	251	VN	40	10.14	0.011944	2.5	PASS
GPRS850	251	VN	50	6.94	0.008178	2.5	PASS
GSM1900	512	VN	-30	-18.24	-0.009859	2.5	PASS
GSM1900	512	VN	-20	-16.92	-0.009144	2.5	PASS
GSM1900	512	VN	-10	-17.14	-0.009266	2.5	PASS
GSM1900	512	VN	0	-25.96	-0.014030	2.5	PASS
GSM1900	512	VN	10	-17.43	-0.009423	2.5	PASS
GSM1900	512	VN	20	-34.26	-0.018514	2.5	PASS
GSM1900	512	VN	30	-27.93	-0.015094	2.5	PASS
GSM1900	512	VN	40	-21.28	-0.011499	2.5	PASS
GSM1900	512	VN	50	-15.92	-0.008603	2.5	PASS
GSM1900	661	VN	-30	-24.15	-0.012846	2.5	PASS
GSM1900	661	VN	-20	-17.40	-0.009256	2.5	PASS
GSM1900	661	VN	-10	-25.02	-0.013309	2.5	PASS
GSM1900	661	VN	0	-32.29	-0.017173	2.5	PASS
GSM1900	661	VN	10	-22.83	-0.012142	2.5	PASS
GSM1900	661	VN	20	-29.83	-0.015868	2.5	PASS
GSM1900	661	VN	30	-21.31	-0.011334	2.5	PASS
GSM1900	661	VN	40	-28.41	-0.015113	2.5	PASS
GSM1900	661	VN	50	-20.70	-0.011008	2.5	PASS
GSM1900	810	VN	-30	-19.21	-0.010059	2.5	PASS
GSM1900	810	VN	-20	-20.47	-0.010718	2.5	PASS
GSM1900	810	VN	-10	-11.49	-0.006018	2.5	PASS
GSM1900	810	VN	0	-6.55	-0.003432	2.5	PASS
GSM1900	810	VN	10	-13.40	-0.007016	2.5	PASS
GSM1900	810	VN	20	-15.56	-0.008148	2.5	PASS
GSM1900	810	VN	30	-21.21	-0.011107	2.5	PASS
GSM1900	810	VN	40	-8.17	-0.004277	2.5	PASS
GSM1900	810	VN	50	-13.37	-0.006999	2.5	PASS
GPRS1900	512	VN	-30	-13.53	-0.007312	2.5	PASS
GPRS1900	512	VN	-20	-15.92	-0.008603	2.5	PASS
GPRS1900	512	VN	-10	-6.55	-0.003542	2.5	PASS
GPRS1900	512	VN	0	-20.63	-0.011151	2.5	PASS
GPRS1900	512	VN	10	-15.79	-0.008533	2.5	PASS
GPRS1900	512	VN	20	-12.27	-0.006631	2.5	PASS
GPRS1900	512	VN	30	-24.44	-0.013210	2.5	PASS
GPRS1900	512	VN	40	-14.46	-0.007818	2.5	PASS
GPRS1900	512	VN	50	-37.48	-0.020259	2.5	PASS
GPRS1900	661	VN	-30	-5.33	-0.002834	2.5	PASS
GPRS1900	661	VN	-20	-27.22	-0.014477	2.5	PASS
GPRS1900	661	VN	-10	35.93	0.019114	2.5	PASS
GPRS1900	661	VN	0	-15.50	-0.008243	2.5	PASS
GPRS1900	661	VN	10	-17.85	-0.009497	2.5	PASS
GPRS1900	661	VN	20	11.59	0.006165	2.5	PASS
GPRS1900	661	VN	30	-3.07	-0.001631	2.5	PASS
GPRS1900	661	VN	40	4.81	0.002559	2.5	PASS
GPRS1900	661	VN	50	-9.33	-0.004963	2.5	PASS
GPRS1900	810	VN	-30	-19.73	-0.010329	2.5	PASS
GPRS1900	810	VN	-20	-14.50	-0.007591	2.5	PASS
GPRS1900	810	VN	-10	-21.15	-0.011073	2.5	PASS
GPRS1900	810	VN	0	-19.73	-0.010329	2.5	PASS
GPRS1900	810	VN	10	-8.68	-0.004548	2.5	PASS
GPRS1900	810	VN	20	0.32	0.000169	2.5	PASS
GPRS1900	810	VN	30	-6.88	-0.003601	2.5	PASS



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GPRS1900	810	VN	40	-20.40	-0.010684	2.5	PASS
GPRS1900	810	VN	50	-15.34	-0.008030	2.5	PASS

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