

# APPENDIX REPORT

Project No.	SHT2207088501EW	Radio Specification	GSM
Test sample No.	YPHT22070885003	Model No.	Smart K
Start test date	2022/7/28	Finish date	2022/7/28
Temperature	25.2°C	Humidity	32%
Test Engineer	Tiancheng.Huang	Auditor	Xiaodong Zhu

Appendix clause	Test item	Result
A	Conducted Output Power	PASS
B	Peak-to-Average Ratio	PASS
C	26 dB Bandwidth and Occupied Bandwidth	PASS
D	Band edge	PASS
E	Conducted Spurious Emission	PASS
F	Frequency Stability	PASS
G	ERP and EIRP	PASS

## 8.1 Appendix A: Conducted Output Power

### Test Result

Band	Channel	PCL	Power(dBm)	Limit(dBm)	Verdict
GSM850	128	5	32.48	38.5	PASS
GSM850	190	5	32.47	38.5	PASS
GSM850	251	5	32.47	38.5	PASS
GSM1900	512	0	29.13	33	PASS
GSM1900	661	0	29.41	33	PASS
GSM1900	810	0	29.45	33	PASS

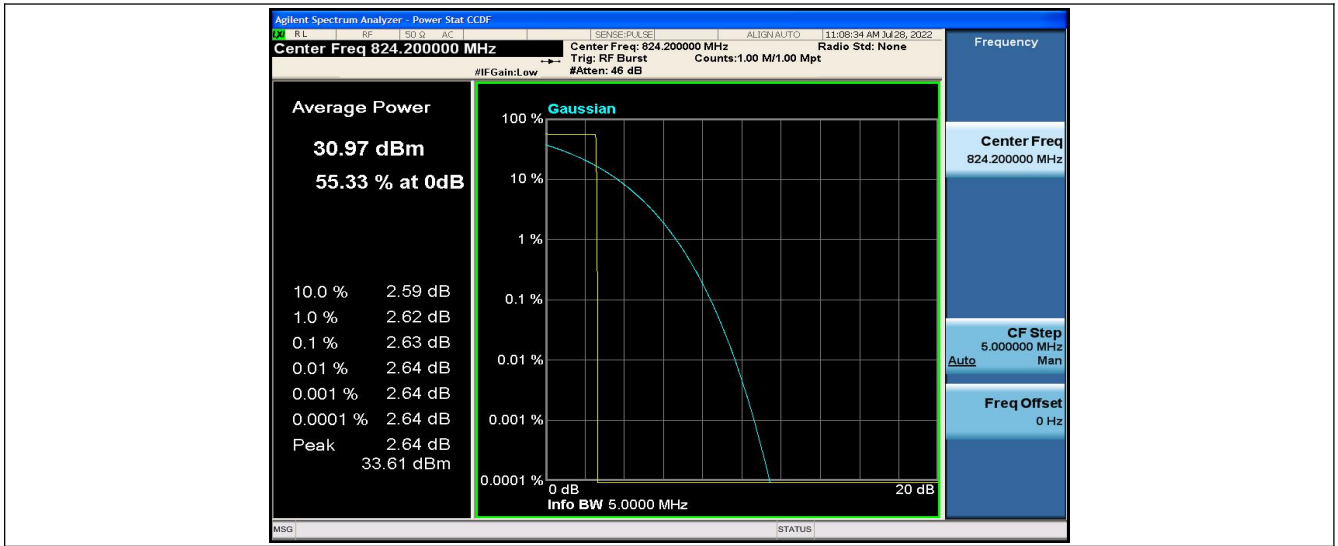
Band	Channel	PCL	Slot	Power(dBm)	Limit(dBm)	Verdict
GPRS850	128	5	1	32.50	38.5	PASS
GPRS850	128	5	2	32.01	38.5	PASS
GPRS850	128	5	3	30.43	38.5	PASS
GPRS850	128	5	4	29.16	38.5	PASS
GPRS850	190	5	1	32.33	38.5	PASS
GPRS850	190	5	2	31.98	38.5	PASS
GPRS850	190	5	3	30.47	38.5	PASS
GPRS850	190	5	4	29.14	38.5	PASS
GPRS850	251	5	1	32.03	38.5	PASS
GPRS850	251	5	2	31.66	38.5	PASS
GPRS850	251	5	3	29.98	38.5	PASS
GPRS850	251	5	4	28.78	38.5	PASS
GPRS1900	512	0	1	29.09	33	PASS
GPRS1900	512	0	2	28.26	33	PASS
GPRS1900	512	0	3	27.19	33	PASS
GPRS1900	512	0	4	24.80	33	PASS
GPRS1900	661	0	1	29.27	33	PASS
GPRS1900	661	0	2	28.68	33	PASS
GPRS1900	661	0	3	27.50	33	PASS
GPRS1900	661	0	4	25.27	33	PASS
GPRS1900	810	0	1	29.33	33	PASS
GPRS1900	810	0	2	28.83	33	PASS
GPRS1900	810	0	3	27.69	33	PASS
GPRS1900	810	0	4	25.51	33	PASS

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

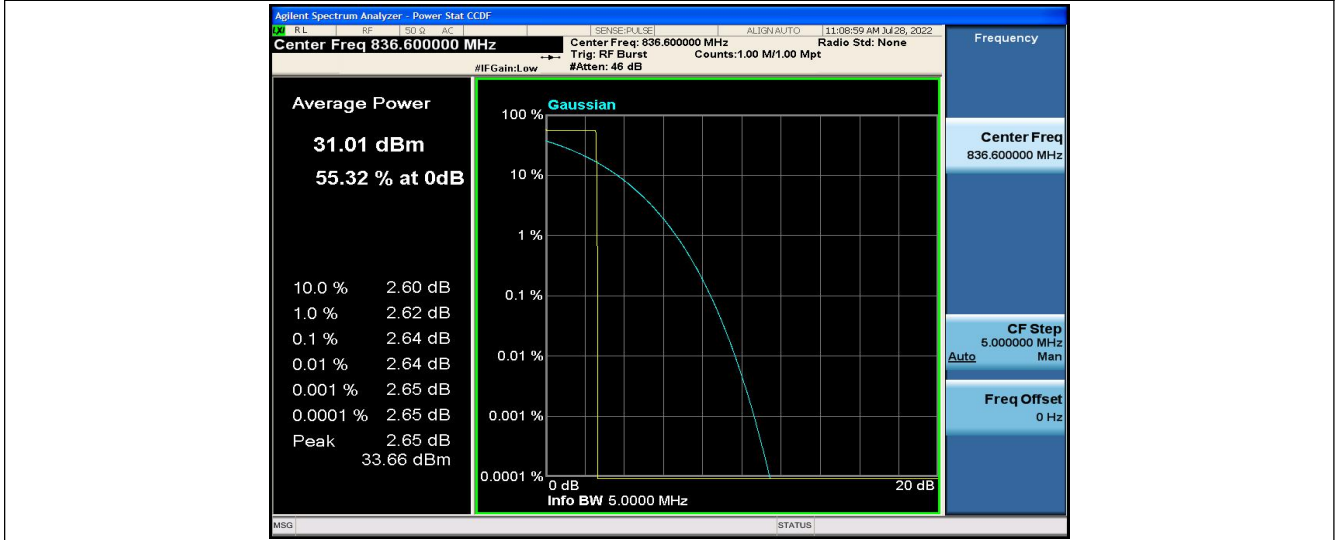
### Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dBm)	Verdict
GSM850	128	2.63	13	PASS
GSM850	190	2.64	13	PASS
GSM850	251	2.63	13	PASS
GPRS850	128	2.64	13	PASS
GPRS850	190	2.64	13	PASS
GPRS850	251	2.65	13	PASS
GSM1900	512	2.67	13	PASS
GSM1900	661	2.66	13	PASS
GSM1900	810	2.66	13	PASS
GPRS1900	512	2.67	13	PASS
GPRS1900	661	2.67	13	PASS
GPRS1900	810	2.66	13	PASS

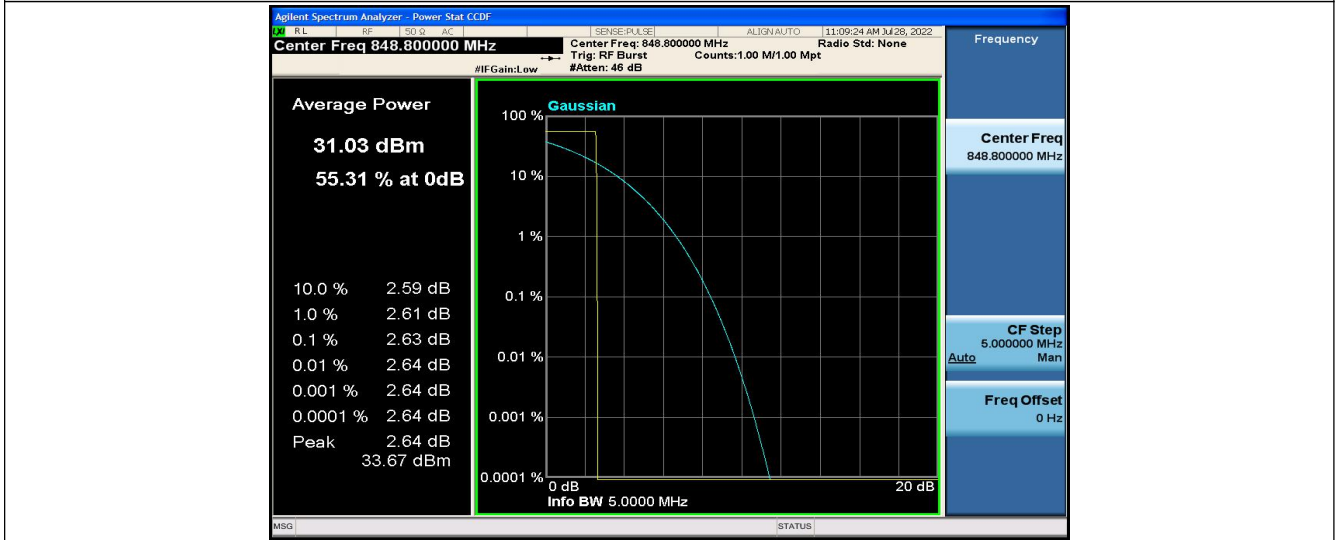
Test Graphs



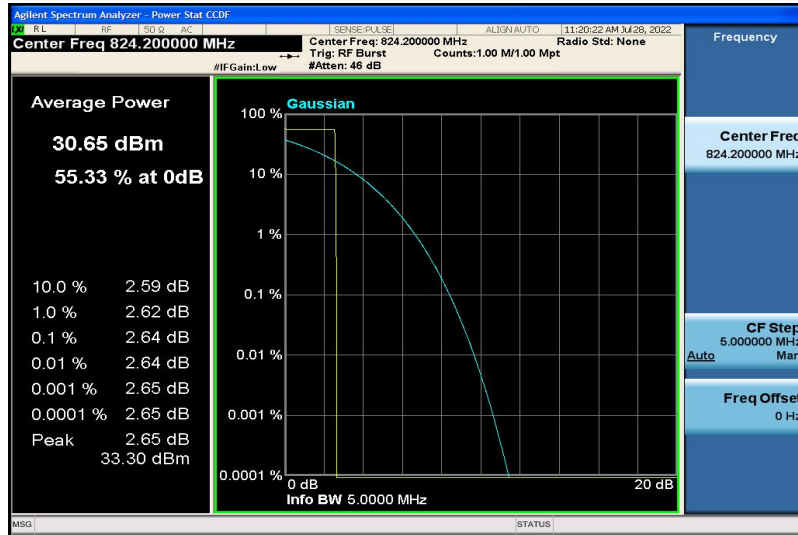
GSM850-128



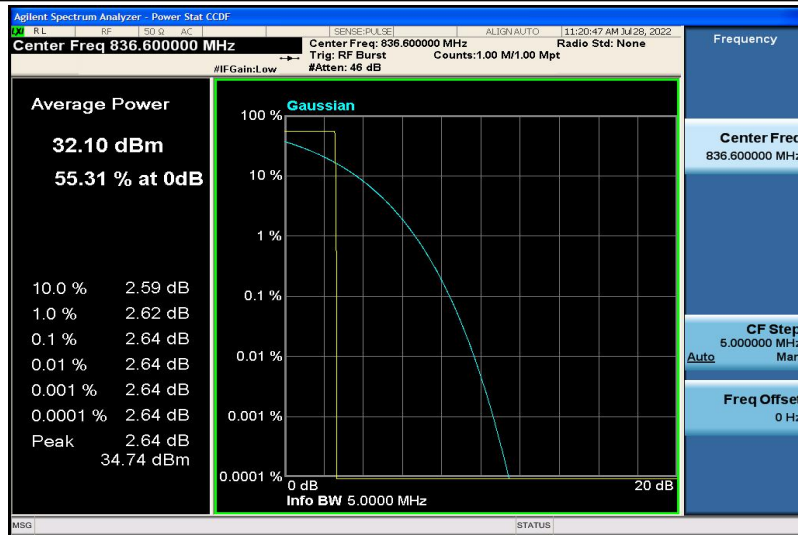
GSM850-190



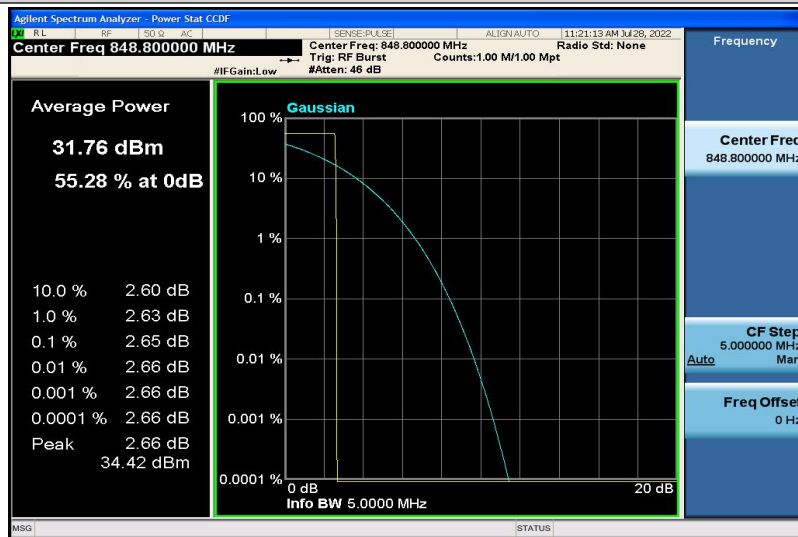
GSM850-251



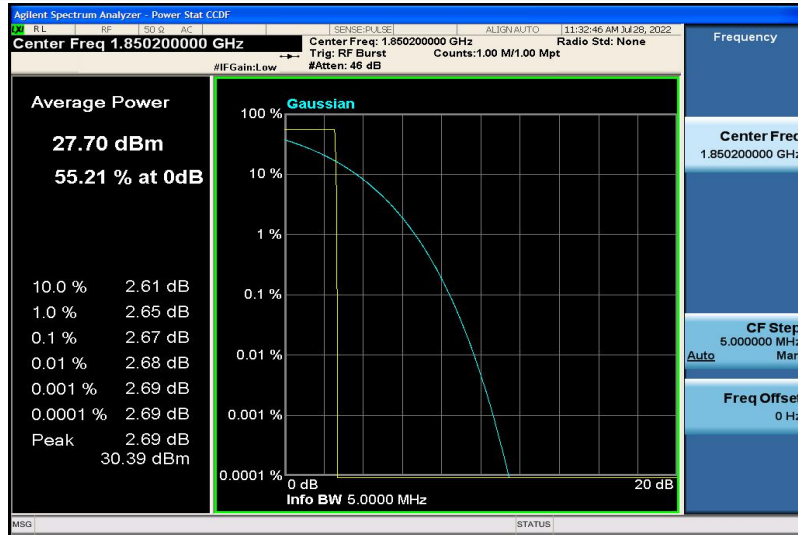
GPRS850-128



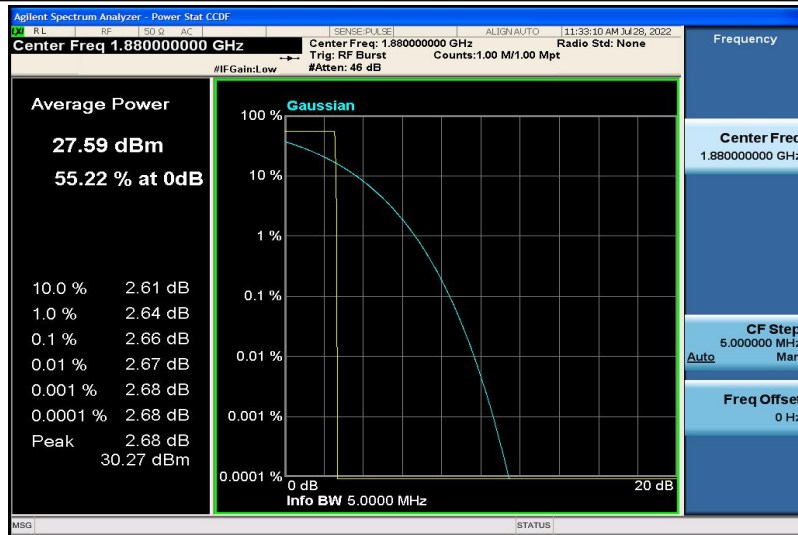
GPRS850-190



GPRS850-251



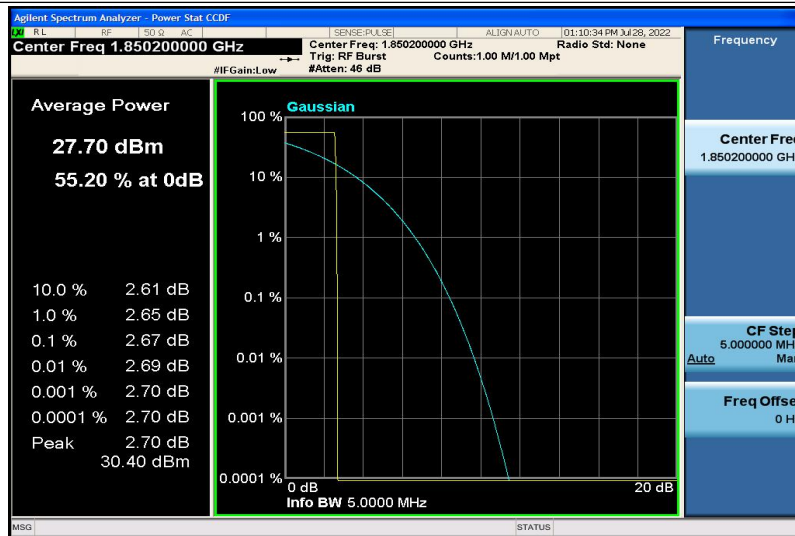
GSM1900-512



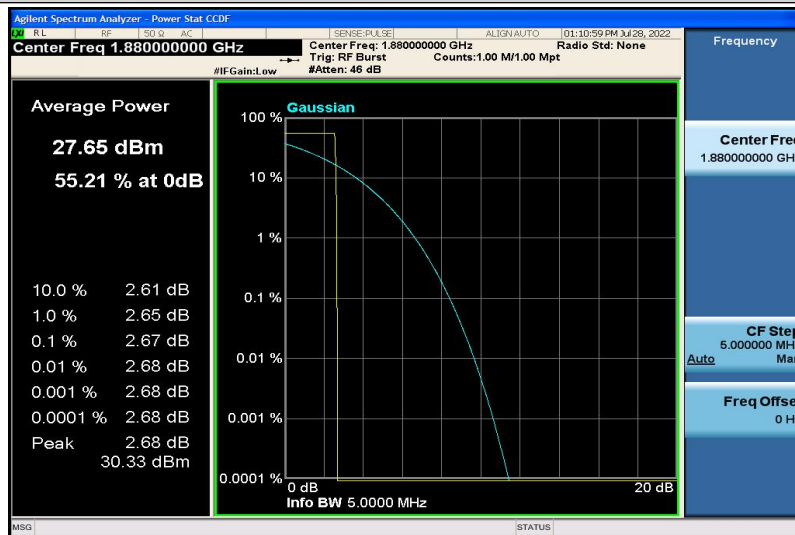
GSM1900-661



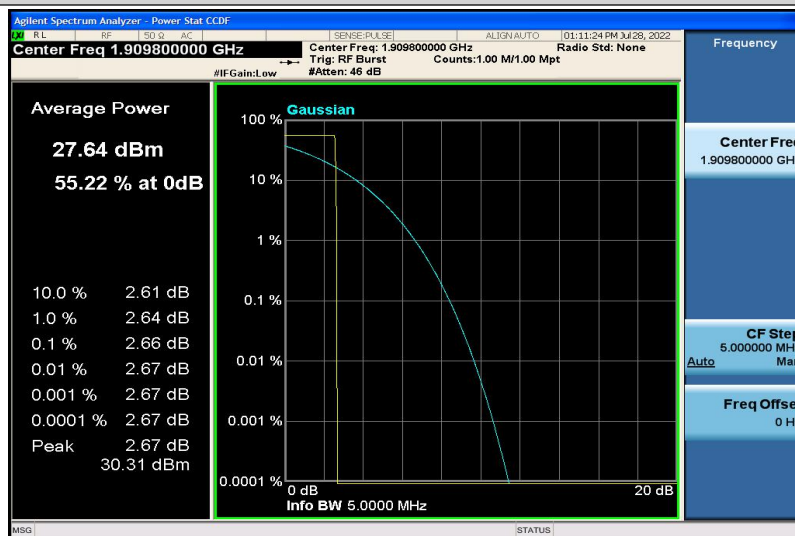
GSM1900-810



GPRS1900-512



GPRS1900-661



GPRS1900-810

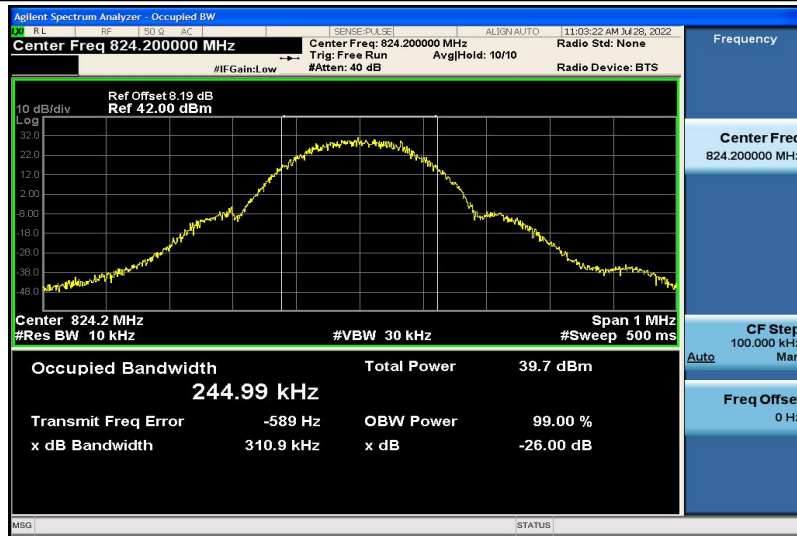


### 8.3 Appendix C: 26dB Bandwidth and Occupied Bandwidth

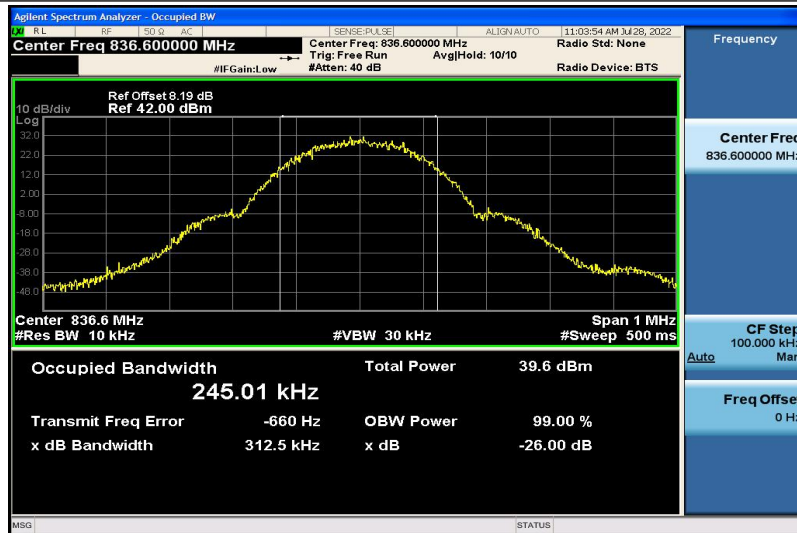
#### Test Result

Band	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
GSM850	128	244.99	310.9	---	PASS
GSM850	190	245.01	312.5	---	PASS
GSM850	251	245.17	310.5	---	PASS
GPRS850	128	245.71	308.3	---	PASS
GPRS850	190	243.95	313.8	---	PASS
GPRS850	251	246.70	319.5	---	PASS
GSM1900	512	244.60	318.3	---	PASS
GSM1900	661	245.08	313.1	---	PASS
GSM1900	810	247.00	312.7	---	PASS
GPRS1900	512	245.22	314.8	---	PASS
GPRS1900	661	246.71	317.9	---	PASS
GPRS1900	810	243.74	312.0	---	PASS

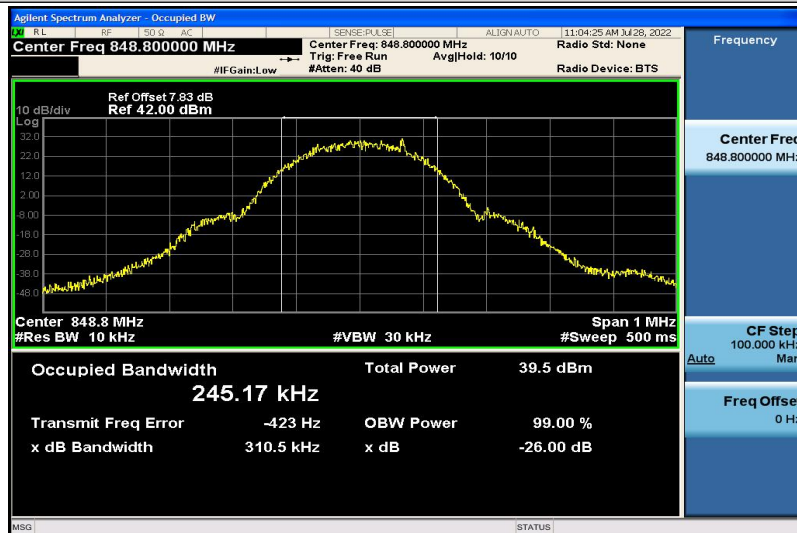
Test Graphs



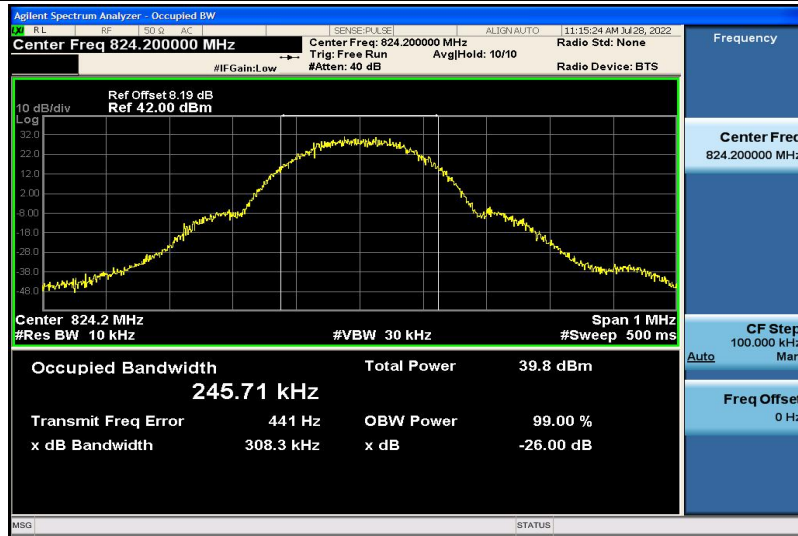
GSM850-128



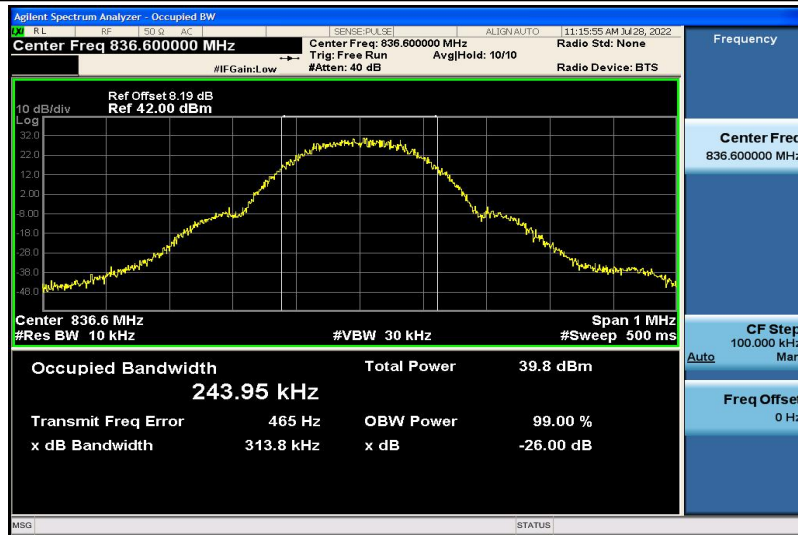
GSM850-190



GSM850-251



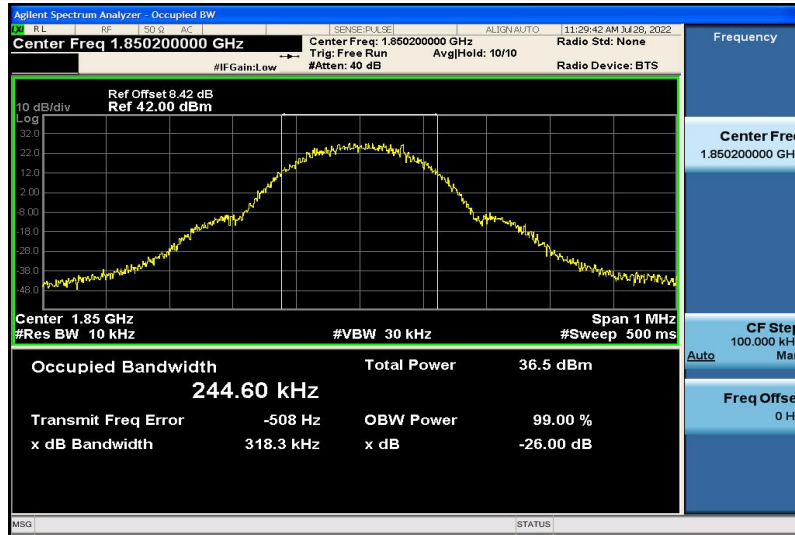
GPRS850-128



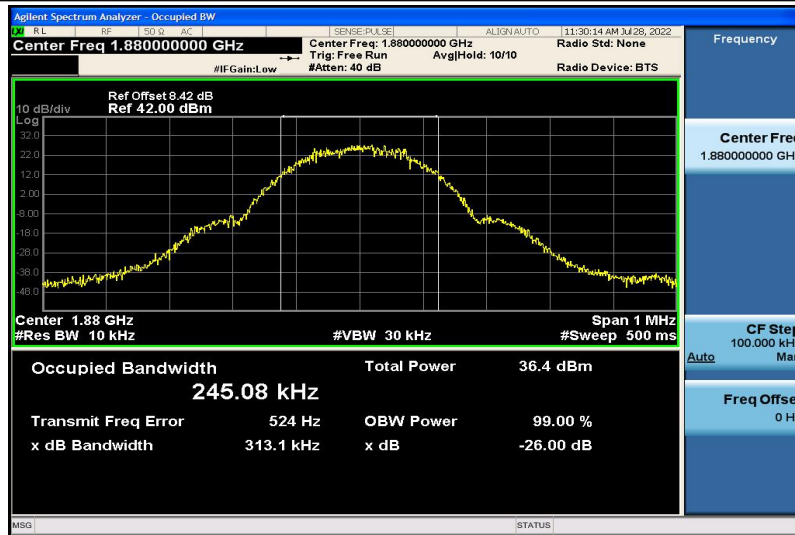
GPRS850-190



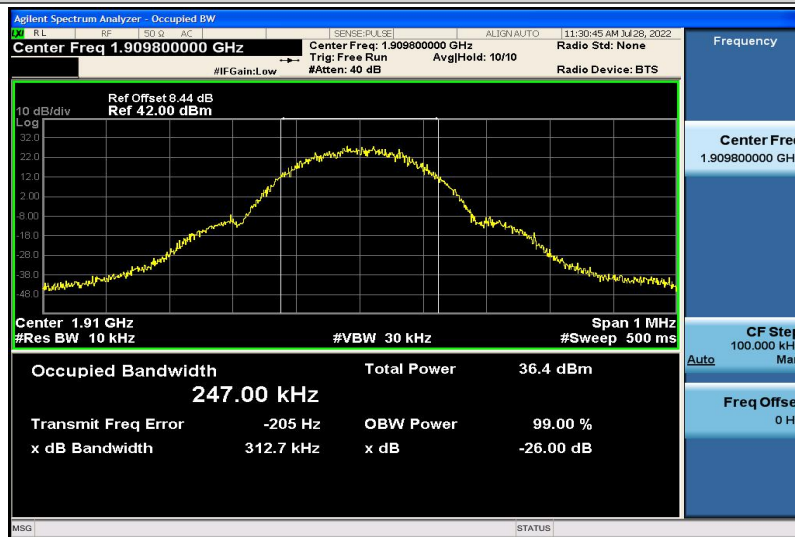
GPRS850-251



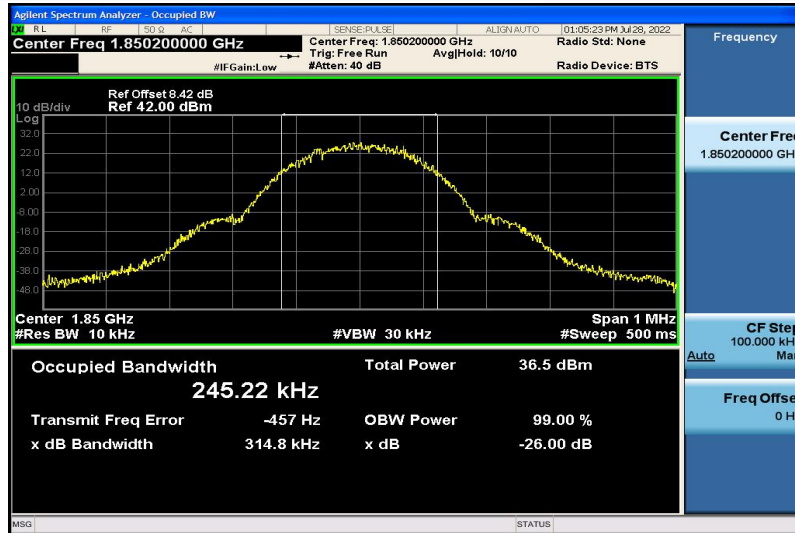
GSM1900-512



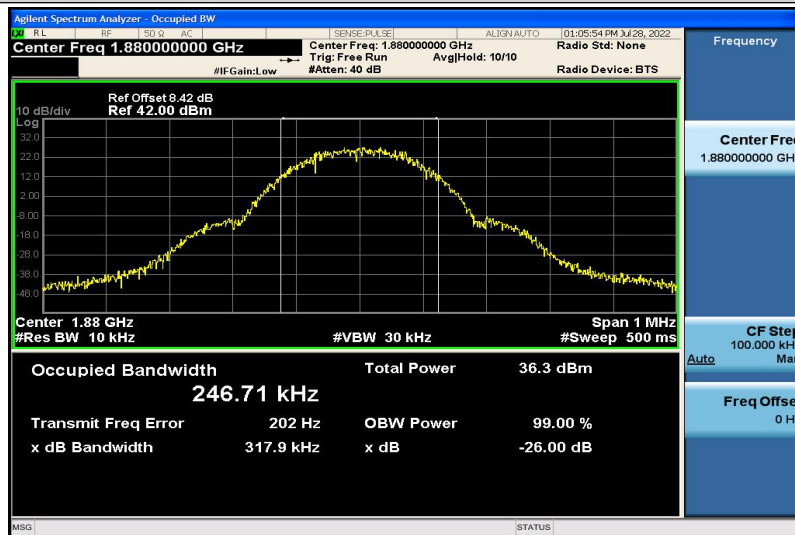
GSM1900-661



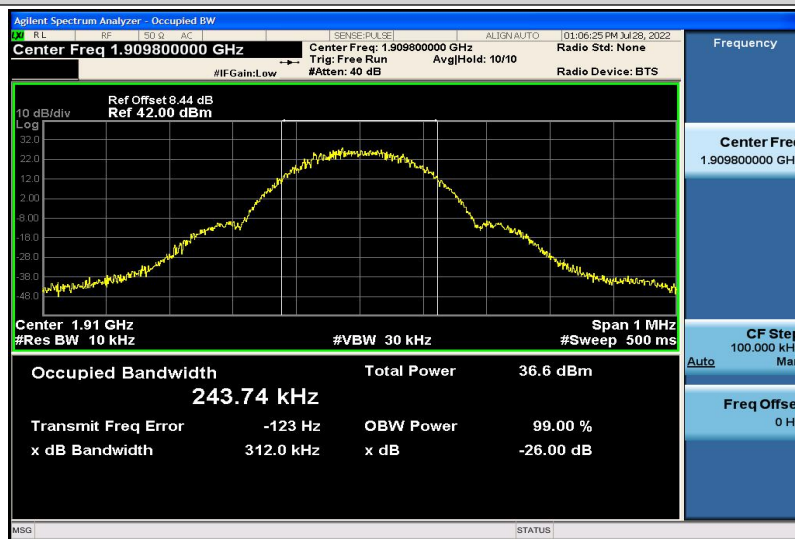
GSM1900-810



GPRS1900-512



GPRS1900-661



GPRS1900-810

## 8.4 Appendix D: Band Edge

### Test Result

Band	Channel	Value(dBm)	Limit(dBm)	Verdict
GSM850	128	-27.68	-13	PASS
GSM850	251	-27.46	-13	PASS
GPRS850	128	-25.39	-13	PASS
GPRS850	251	-25.07	-13	PASS
GSM1900	512	-29.37	-13	PASS
GSM1900	810	-30.27	-13	PASS
GPRS1900	512	-29.93	-13	PASS
GPRS1900	810	-27.64	-13	PASS

Test Graphs



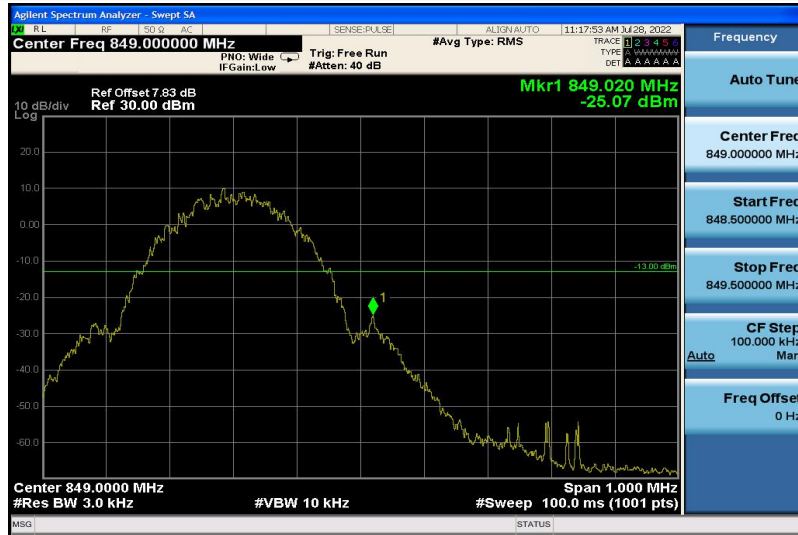
GSM850-128



GSM850-251



GPRS850-128



GPRS850-251



GSM1900-512



GSM1900-810





GPRS1900-512



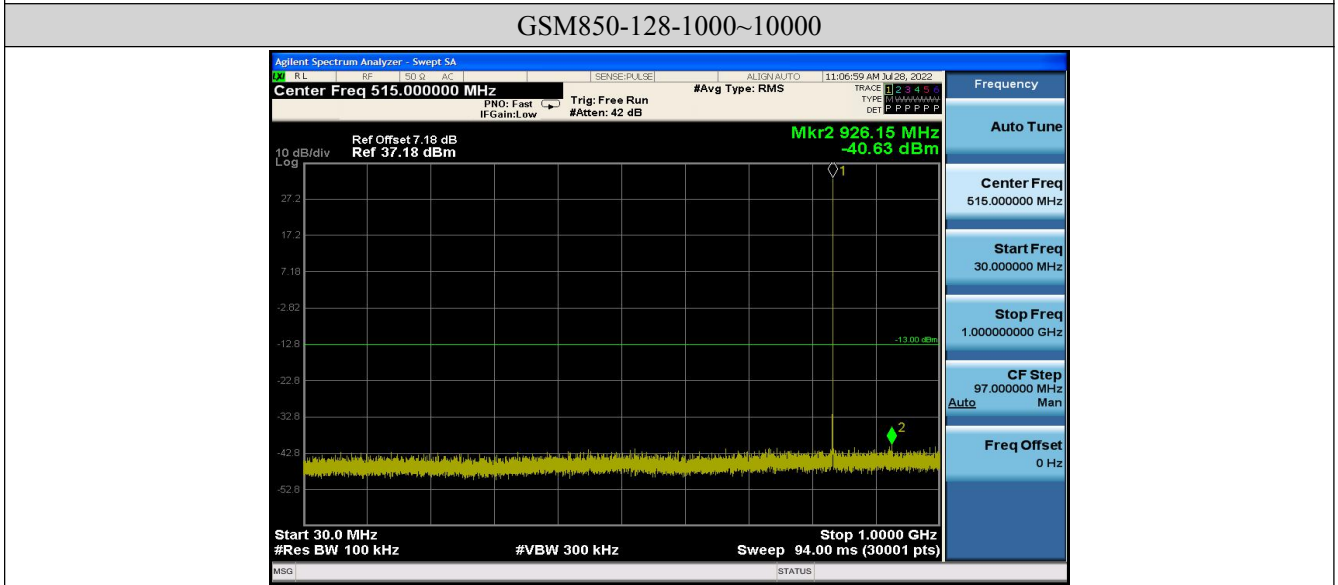
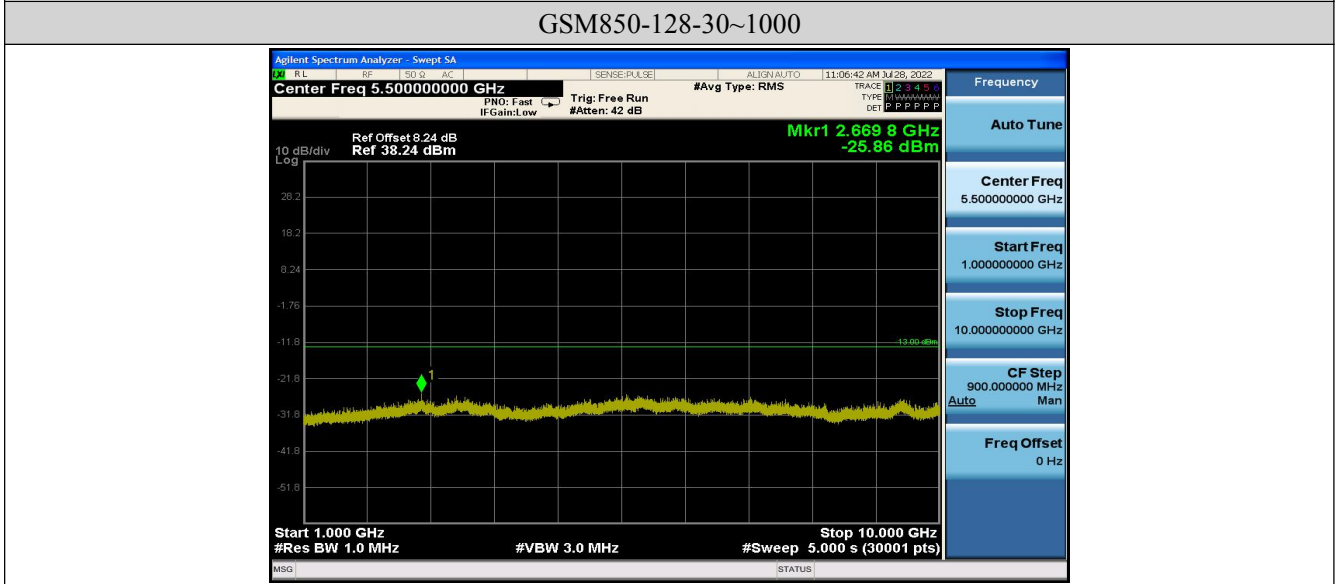
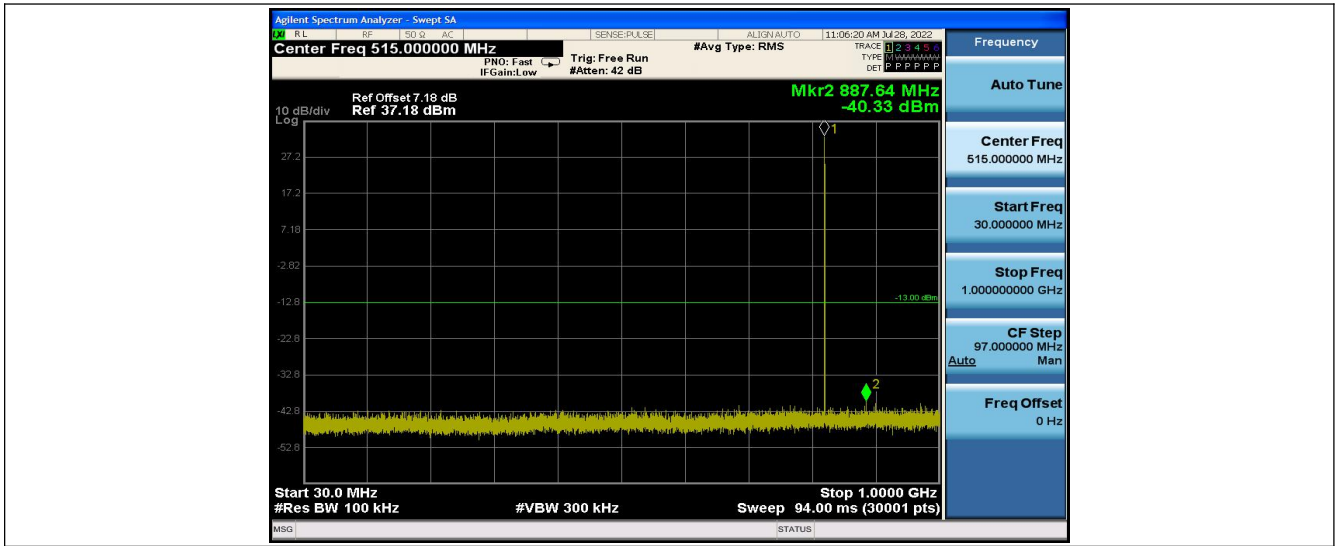
GPRS1900-810

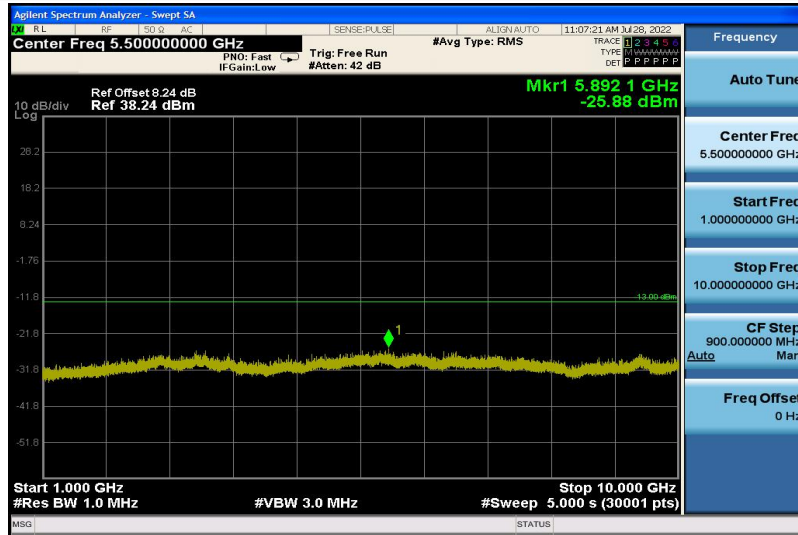
## 8.5 Appendix E: Conducted Spurious Emission

### Test Result

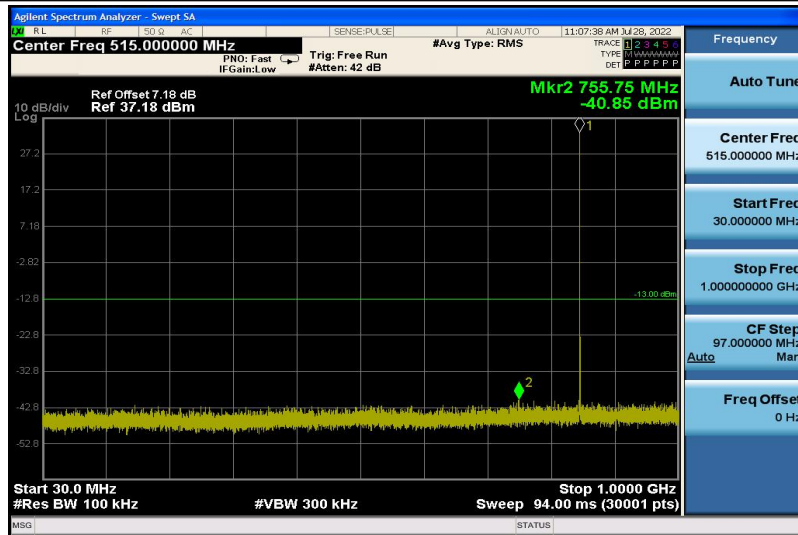
Band	Channel	Frequency Range(Mhz)	Value(dBm)	Limit(dBm)	Verdict
GSM850	128	30~1000	-40.33	-13	PASS
GSM850	128	1000~10000	-25.86	-13	PASS
GSM850	190	30~1000	-40.63	-13	PASS
GSM850	190	1000~10000	-25.88	-13	PASS
GSM850	251	30~1000	-40.85	-13	PASS
GSM850	251	1000~10000	-25.58	-13	PASS
GPRS850	128	30~1000	-40.79	-13	PASS
GPRS850	128	1000~10000	-25.90	-13	PASS
GPRS850	190	30~1000	-40.85	-13	PASS
GPRS850	190	1000~10000	-24.07	-13	PASS
GPRS850	251	30~1000	-40.90	-13	PASS
GPRS850	251	1000~10000	-26.01	-13	PASS
GSM1900	512	30~1000	-40.68	-13	PASS
GSM1900	512	1000~20000	-20.63	-13	PASS
GSM1900	661	30~1000	-40.80	-13	PASS
GSM1900	661	1000~20000	-19.75	-13	PASS
GSM1900	810	30~1000	-40.45	-13	PASS
GSM1900	810	1000~20000	-20.14	-13	PASS
GPRS1900	512	30~1000	-40.56	-13	PASS
GPRS1900	512	1000~20000	-19.88	-13	PASS
GPRS1900	661	30~1000	-40.57	-13	PASS
GPRS1900	661	1000~20000	-19.66	-13	PASS
GPRS1900	810	30~1000	-40.77	-13	PASS
GPRS1900	810	1000~20000	-20.33	-13	PASS

Test Graphs

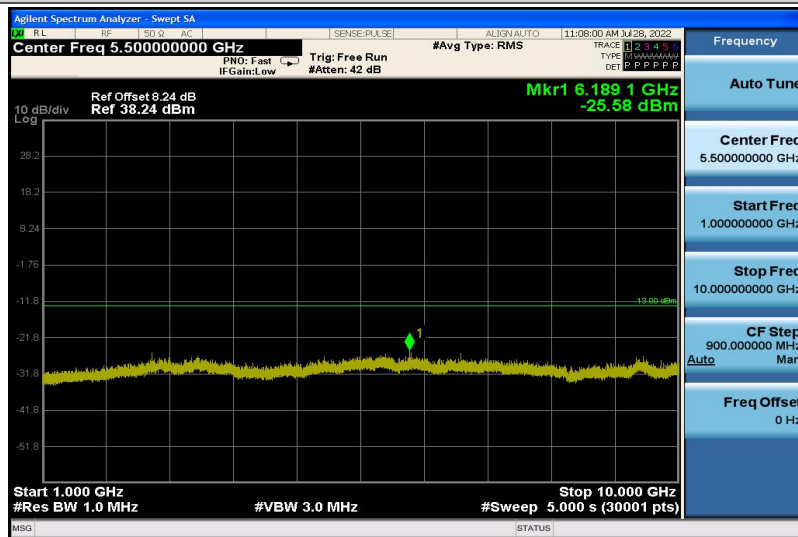




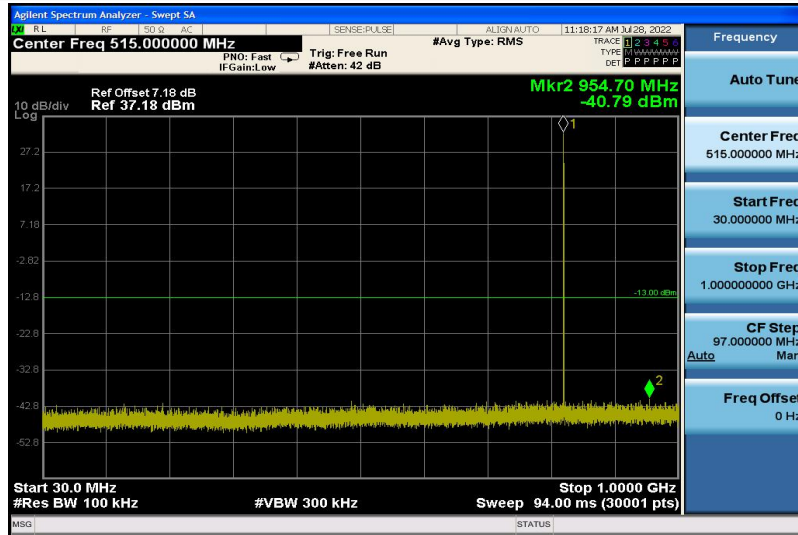
GSM850-190-1000~10000



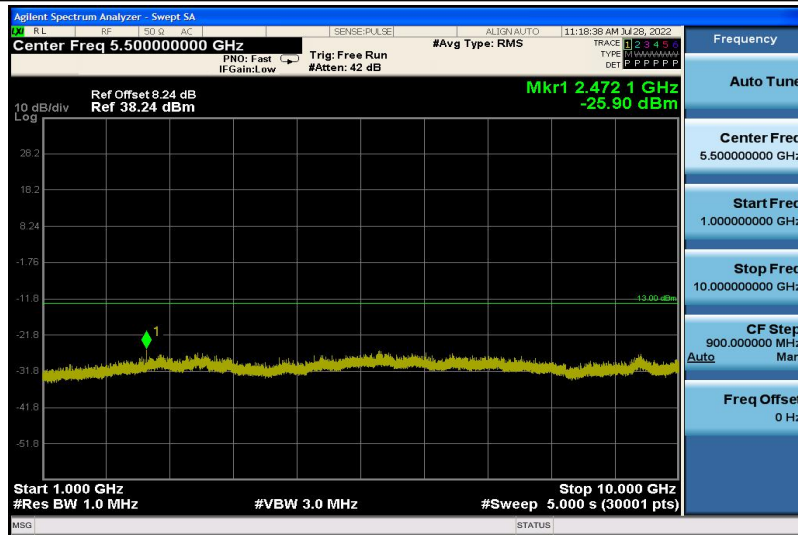
GSM850-251-30~1000



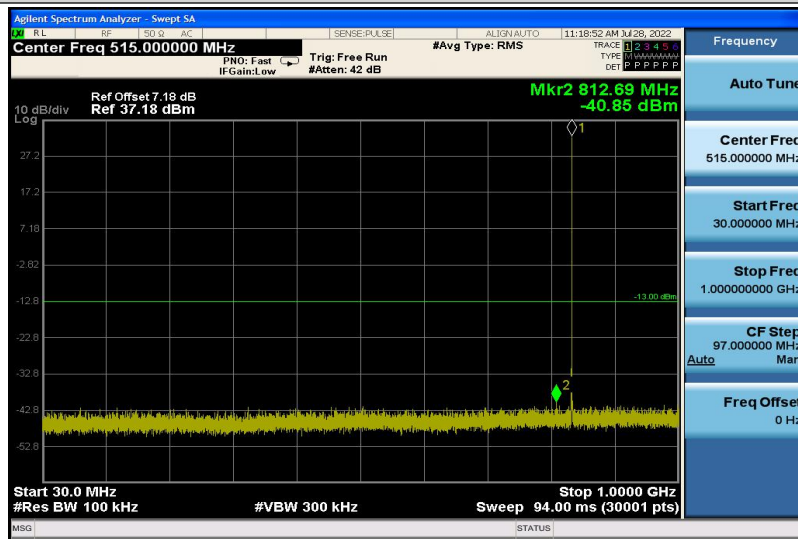
GSM850-251-1000~10000



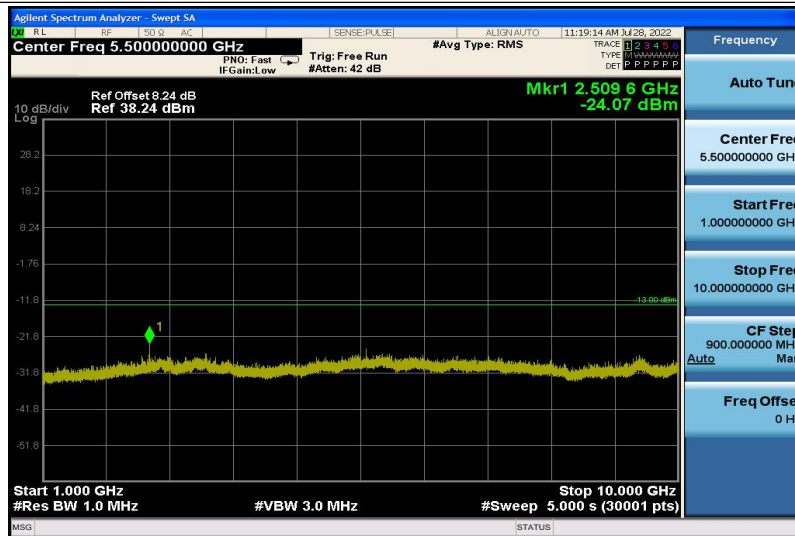
GPRS850-128-30~1000



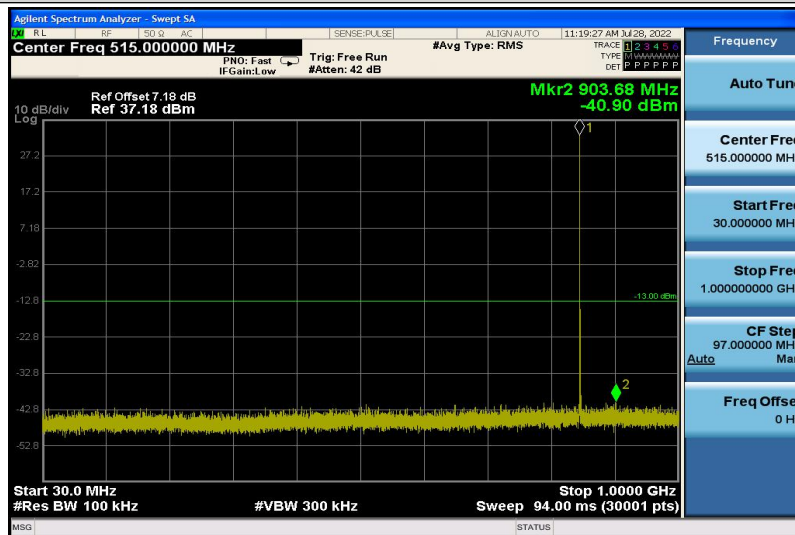
GPRS850-128-1000~10000



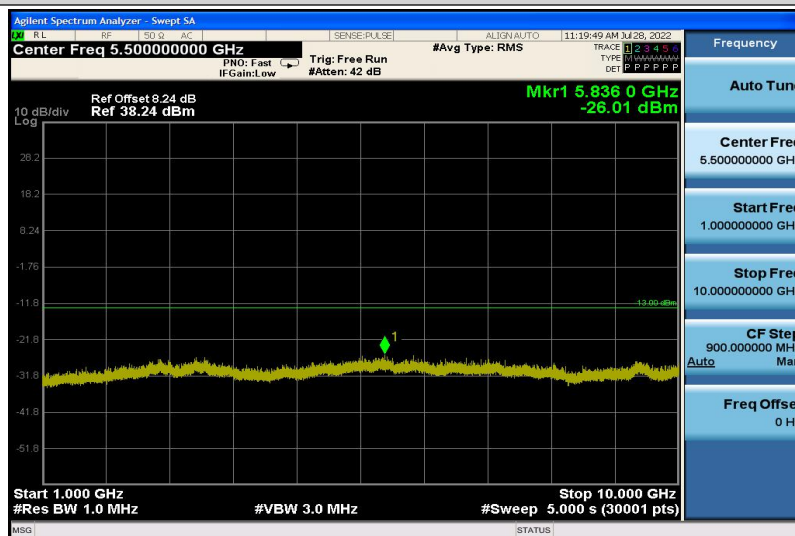
GPRS850-190-30~1000



GPRS850-190-1000~10000



GPRS850-251-30~1000



GPRS850-251-1000~10000