

7.3 TEST RESULTS

GSM

EUT Name	DiLink	Model	DiLink 3.0F
Sample No.	E20211217696105-0006	Test Mode	GSM
Power supply	DC 12V	Environmental Conditions	Temp:23.1 °C ;Humi:47%RH
Test Date	2022-04-08	Test Site	/
Tested By	Zhang Shuangshuang	Reviewed by	Zhao Zetian

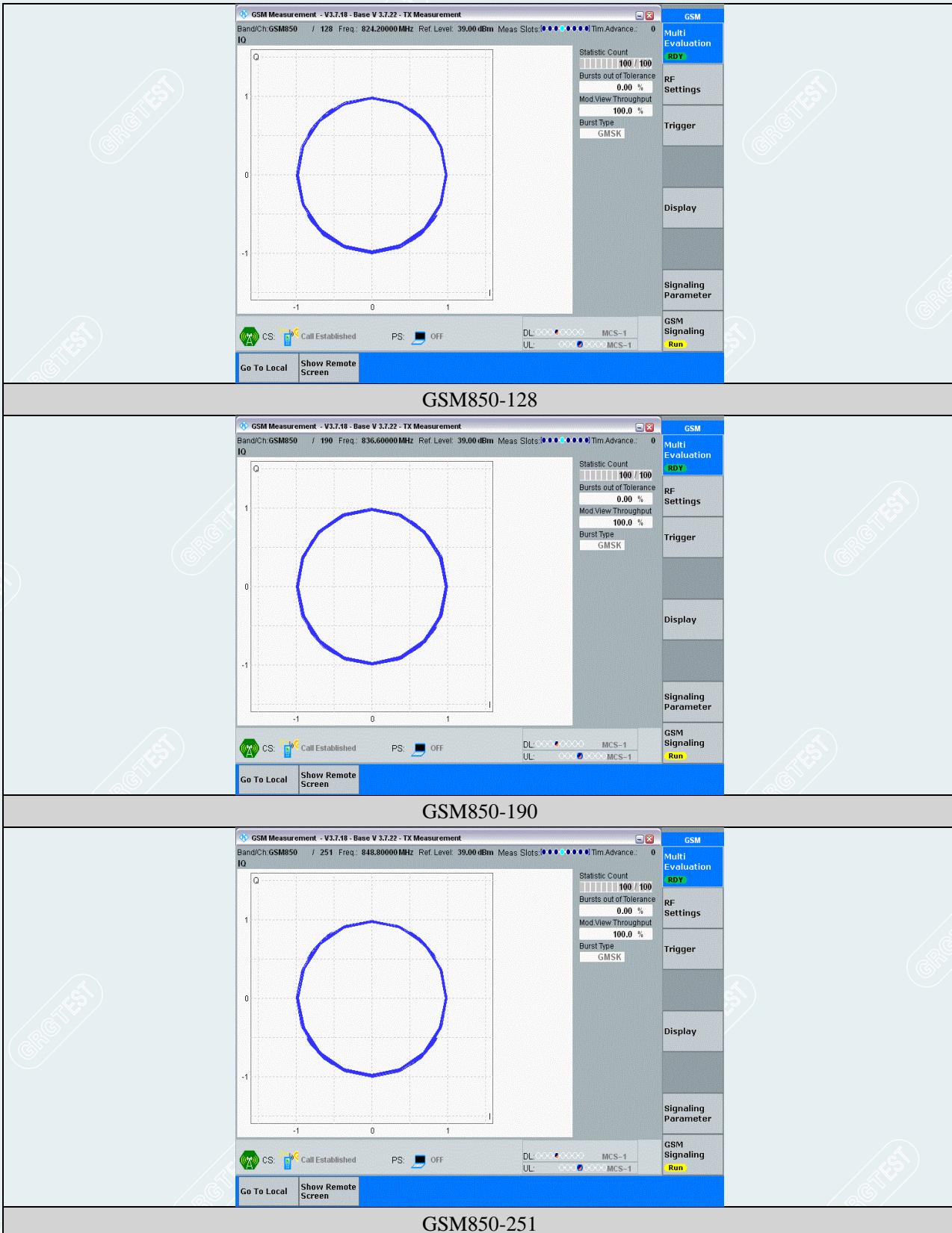
Band	Channel	Result	Verdict
GSM850	128	Digital modulation	PASS
GSM850	190	Digital modulation	PASS
GSM850	251	Digital modulation	PASS
GPRS850	128	Digital modulation	PASS
GPRS850	190	Digital modulation	PASS
GPRS850	251	Digital modulation	PASS
EGPRS850	128	Digital modulation	PASS
EGPRS850	190	Digital modulation	PASS
EGPRS850	251	Digital modulation	PASS
GSM1900	512	Digital modulation	PASS
GSM1900	661	Digital modulation	PASS
GSM1900	810	Digital modulation	PASS
GPRS1900	512	Digital modulation	PASS
GPRS1900	661	Digital modulation	PASS
GPRS1900	810	Digital modulation	PASS
EGPRS1900	512	Digital modulation	PASS
EGPRS1900	661	Digital modulation	PASS
EGPRS1900	810	Digital modulation	PASS

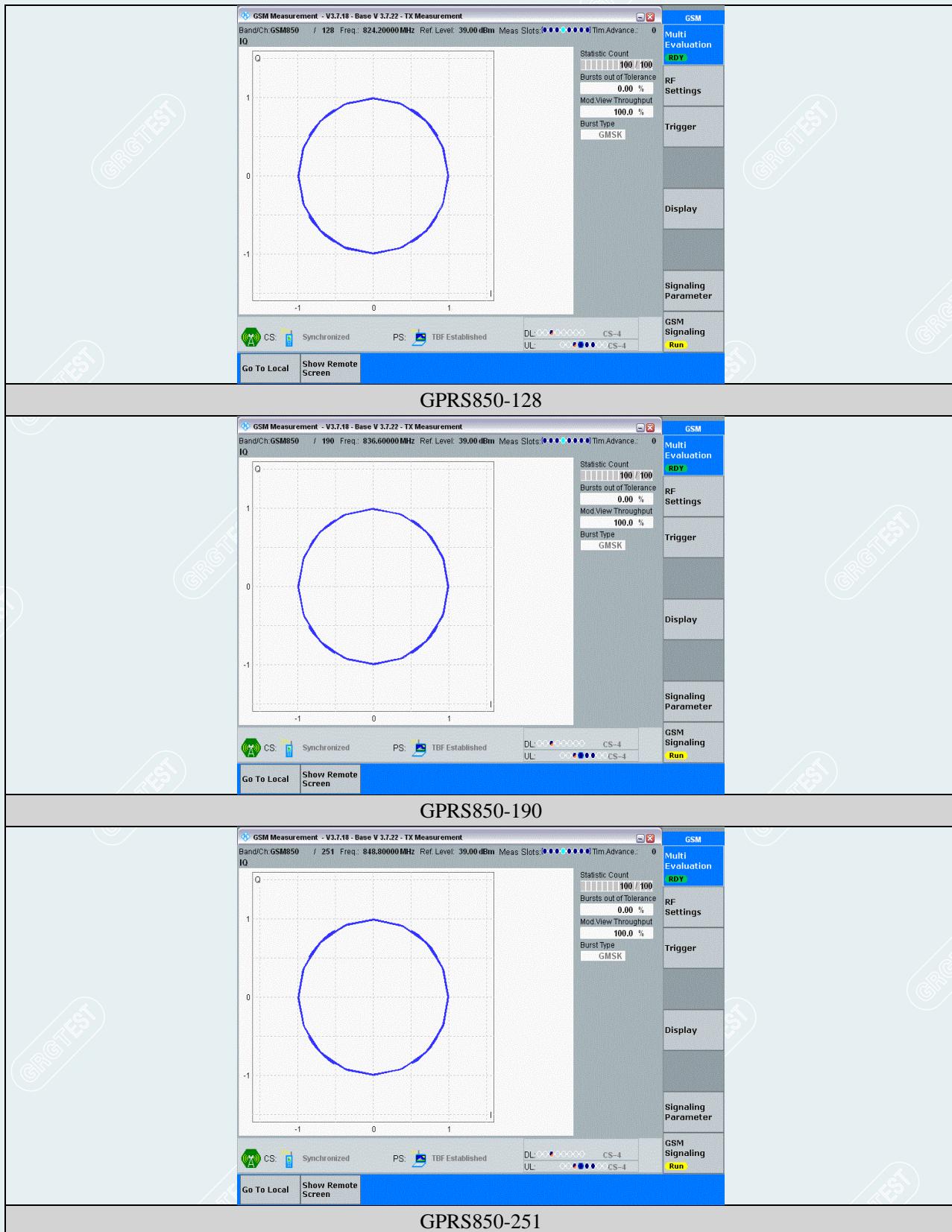
WCDMA

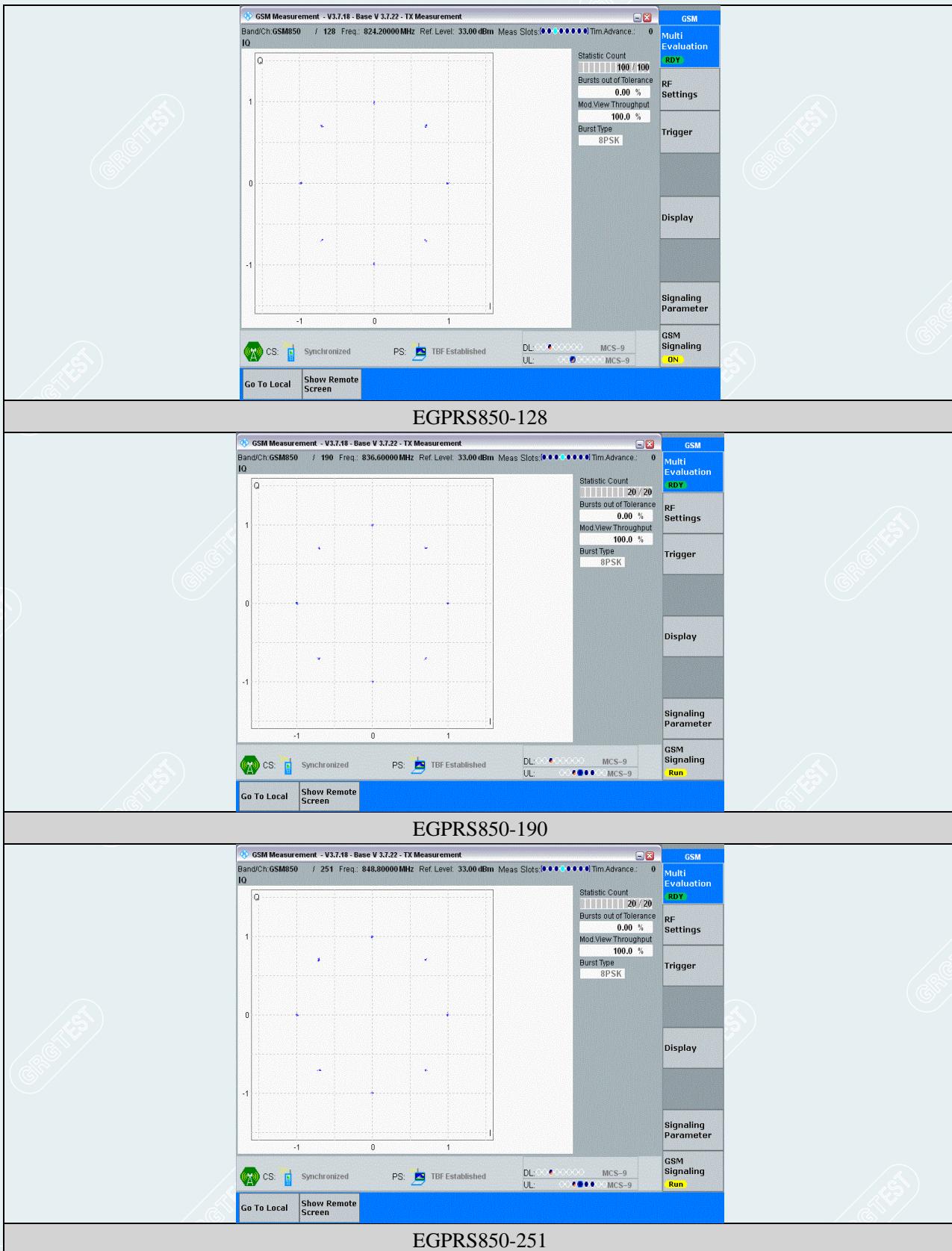
EUT Name	DiLink	Model	DiLink 3.0F
Sample No.	E20211217696105-0006	Test Mode	WCDMA
Power supply	DC 12V	Environmental Conditions	Temp:22.6 °C ;Humi:45%RH
Test Date	2022-04-11	Test Site	/
Tested By	Zhang Shuangshuang	Reviewed by	Zhao Zetian

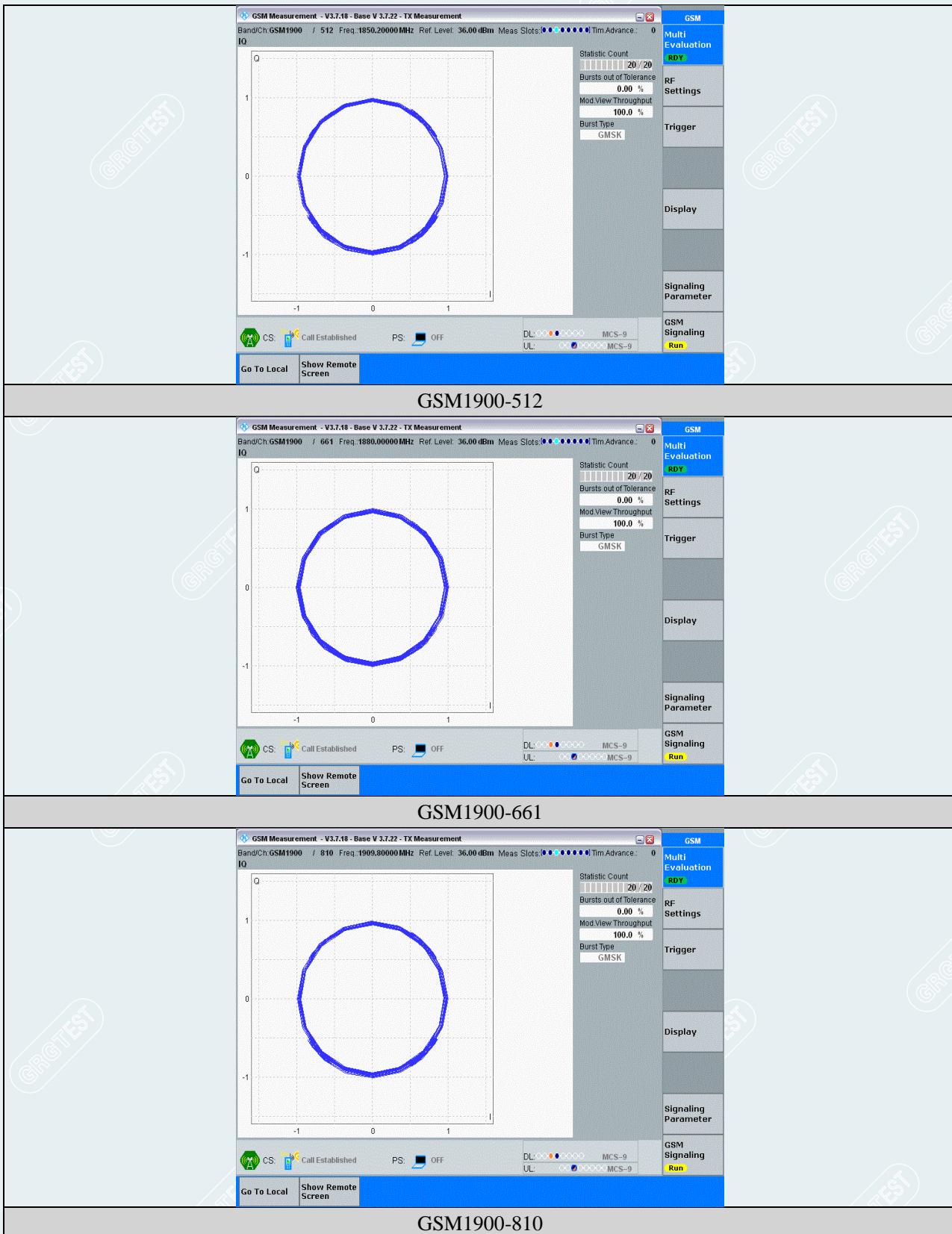
Band	Channel	Result	Verdict
Band2	9262	Digital modulation	PASS
Band2	9400	Digital modulation	PASS
Band2	9538	Digital modulation	PASS
Band4	1312	Digital modulation	PASS
Band4	1413	Digital modulation	PASS
Band4	1513	Digital modulation	PASS
Band5	4132	Digital modulation	PASS
Band5	4182	Digital modulation	PASS
Band5	4233	Digital modulation	PASS

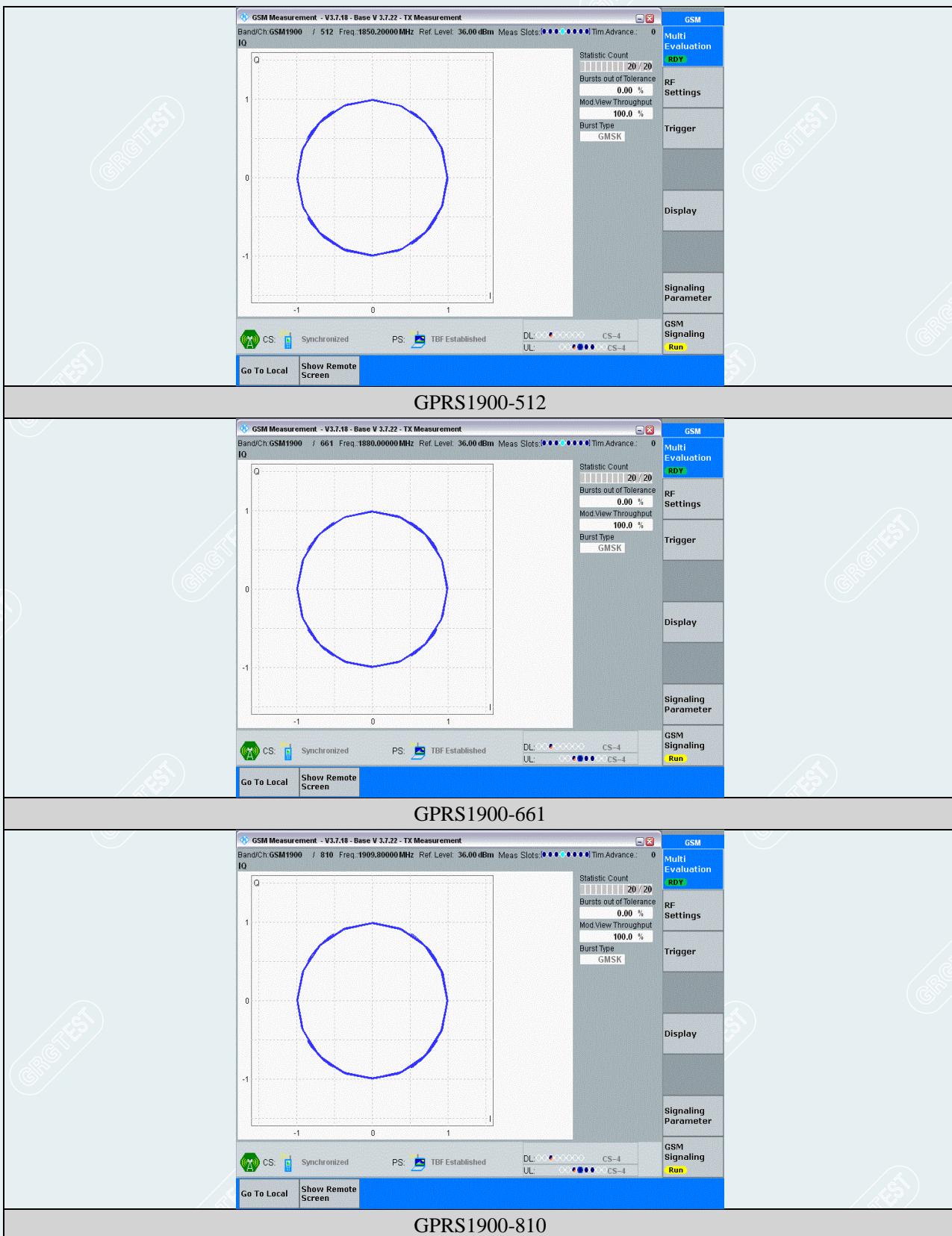
GSM

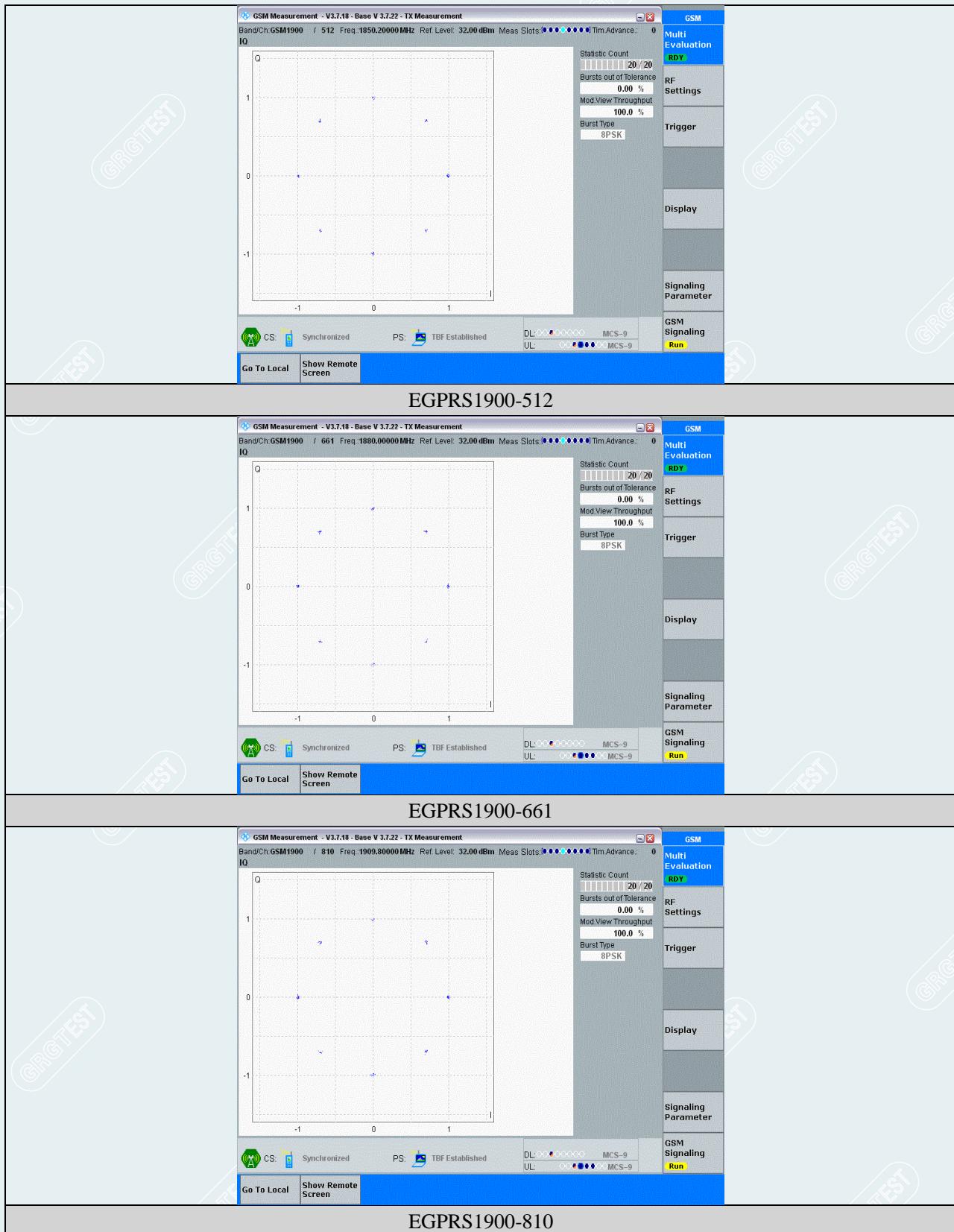












WCDMA







8. BANDWIDTH

8.1 LIMIT

According to FCC section 2.1049, OBW and EBW no limit.

8.2 TEST PROCEDURES

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured. The transmitter output was connected to a calibrated coaxial cable, attenuator and Spectrum analyser, the other end of which was connected to a Base Station Simulator. The Base Station Simulator was set to force the EUT to its maximum power setting. The tests were performed at three frequencies (low channel, middle channel and high channel). The span of the analyzer shall be set to capture all products of the modulation process, including the emission skirts. The resolution bandwidth shall be set to as close to 1 percent of the selected span as is possible without being below 1 percent. The video bandwidth shall be set to 3 times the resolution bandwidth. Video averaging is not permitted. Where practical, a sampling detector shall be used since a peak or, peak hold, may produce a wider bandwidth than actual. The trace data points are recovered and are directly summed in linear terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 percent of the total is reached and that frequency recorded. The process is repeated for the highest frequency data points. This frequency is recorded. The span between the two recorded frequencies is the occupied bandwidth.

Test Settings

1. The signal analyzer's automatic bandwidth measurement capability was used to perform the 99% occupied bandwidth and the 26dB bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. RBW=1-5% of the expected OBW
3. VBW \geq 3 \times RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. The trace was allowed to stabilize
8. If necessary, steps 2 – 7 were repeated after changing the RBW such that it would be within 1- 5% of the 99% occupied bandwidth observed in Step 7

8.3 TEST SETUP

