

# PT100 Small-size Reverberation Chamber

Production Testing of cellular and wireless technologies  
690 MHz to 6 GHz

## Main Features

- Production Testing (non-signalling)
- 1600 mm (H) x 800 mm (W) x 900 mm (L)  
With door + 200mm (W)  
With I/O filter and belts + 580mm (L)
- Largest DUT dimension: 15 cm
- Maximum DUT weight: 5 kg
- Up to 4 DUTs simultaneous testing
- DUTs input/output through conveyor belts
- WLAN 802.11, GSM, WCDMA, LTE
- Communication to/from DUT via Bluetooth
- Fully automated tests with R&S NI and Anritsu instruments
- Automated DUT line control through barcode reader
- Automated Test Cell control
- Simple Production-Engineer Test Mode
- Portable System with reduced size and wheels
- RPI available for remote control
- Customized test script design available
- Mains power: 100-240 VAC 50-60 Hz
- Data interface: USB
- RF isolation (shielding): ~ 80 dB



## Measurement system

The PT100 small-size Reverberation Chamber Series is a one-of-its-own OTA test chamber. With smart-stirring and capable of simultaneously testing up to 4 DUTs of up to 15cm and 5kg, the PT100 is intended for Production OTA Testing in non-signalling mode, providing unheard-of ultra-fast test times with good accuracy and repeatability and the second smallest footprint on the market.

No.	TestItem	Result	Min	Max	Result
20					
21	1 6.LTE FDD BAND 1 Ch=300 RX Div	-71.71	-73.10	-69.10	Pass
22	2 3.LTE FDD BAND 1 Ch=300 RX Eri	-65.09	-67.39	-62.39	Pass
23	3 9.LTE TDD BAND 41 Ch=40620 RX Eri	-66.93	-68.68	-64.68	Pass
24	4 7.LTE TDD BAND 41 Ch=40620 RX Div	-75.96	-77.66	-73.66	Pass
25	5 10.GSM GSM900 M1 Ch=38 TX	29.44	27.13	31.13	Pass
26	6 4.GSM GSM900 M0 Ch=38 TX	29.44	27.13	31.13	Pass
27	7 2.WCDMA WCDMA-UTRA FDD BAND 8 Ch=2788 TX	19.07	17.72	21.72	Pass
28	8 8.LTE FDD BAND 3 Ch=1575 RX Eri	-66.49	-68.68	-64.68	Pass
29	9 11.GSM GSM1800 M1 Ch=699 TX	27.07	25.29	29.29	Pass
30	10 5.GSM GSM1800 M0 Ch=699 TX	27.30	25.29	27.29	Pass
31	11 1.LTE FDD BAND 1 Ch=18300 TX	22.44	20.33	24.33	Pass
32					
33					
34					
35	LINE PRODUCTION No.2				
36					
37	Tester: 1201.0002k03/101431(1)				
38	Chipset Profile: XXXX				
39	DUT ID: F4:9F:F3:AA:9E:19				
40	DUT IMEI: XXXX				
41	Elapsed Time (s): 212				
42	Test File: C:\Users\EMITE\Desktop\PT100v1.2.3\tests\Line28F49FF3AA9E19-27-11-2017_164736.sxx				
43					
44					
45					
46	1 9.LTE TDD BAND 41 Ch=40620 RX Eri	-66.84	-68.68	-64.68	Pass
47	2 7.LTE TDD BAND 41 Ch=40620 RX Div	-75.01	-77.66	-73.66	Pass
48	3 10.GSM GSM900 Ch=38 TX	29.44	27.13	31.13	Pass
49	4 4.GSM GSM900 Ch=38 TX	29.11	27.13	31.13	Pass
50	5 6.LTE FDD BAND 1 Ch=300 RX Div	-71.58	-73.10	-69.10	Pass
51	6 3.LTE FDD BAND 1 Ch=300 RX Eri	-65.34	-67.39	-63.39	Pass
52	7 2.WCDMA WCDMA-UTRA FDD BAND 8 Ch=2788 TX	18.44	17.72	21.72	Pass

TxPower, RSSI and other non-signalling SISO OTA test figures of merit for all cellular and wireless technologies, including Main/Diversity/All antenna switching.

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With unprecedented parallel OTA testing (up to 4 DUTs simultaneously) including batch and user-defined API list of tests with pass/fail criteria set and evaluation, PT100 is perfect for Production Testing.

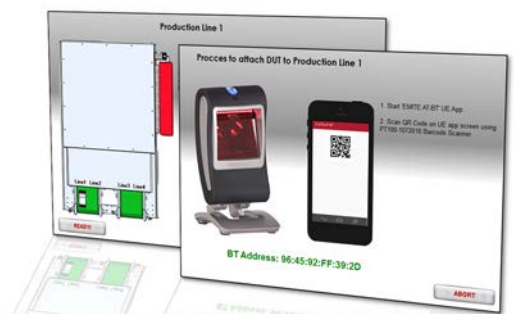
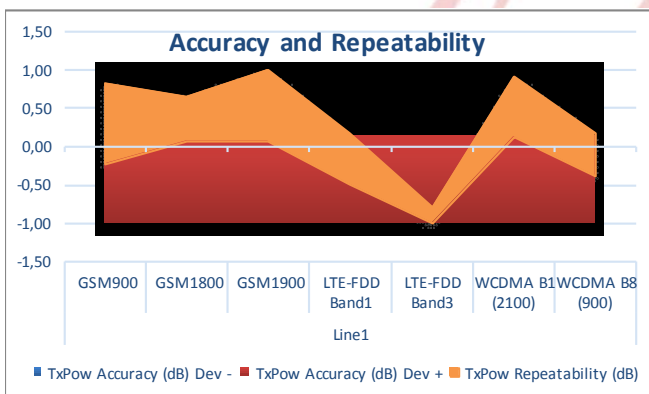


With user-selectable technology, band, channel, bandwidth, antennas, and other parameters in an individual manner for each test, a batch of tests can be run overnight in an unsupervised manner, something that only the Test Systems from EMITE can do. The PT100 can also make use of an optional RF-I/O-filtered conveyor-belt for continuous testing of devices, providing an unheard-of and unique test capability for production lines. Profiles definition by the user for proprietary chipset confidential AT commands is optional.

Typical non-signalling complete batch testing times for 4 DUTs are around 210s. Typical 1 dB STD accuracy and repeatability (1.5 dB for 690 to 860 MHz). With up to 4 DUTs parallel testing capabilities, automated detection and usage of any eNodeB capability and overnight unsupervised measurements, PT100 holds unmatched capabilities.

## Key Features

- Pre-calibrated from manufacturing plant
- EMITE app for automated non-signalling testing
- Integration with Production lines through conveyor belt



The EMITE GUI software and UE app monitors the wireless connection to the DUTs and the test schedule to ensure parallel testing is run smoothly.

The EMITE barcode reader and Bluetooth control uniquely identifies DUTs, test lines and chambers in a room with a set of many chambers.

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