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Professional Test Inc
—专业电测设备制造商—

ICT+FCT Test Transformation Case

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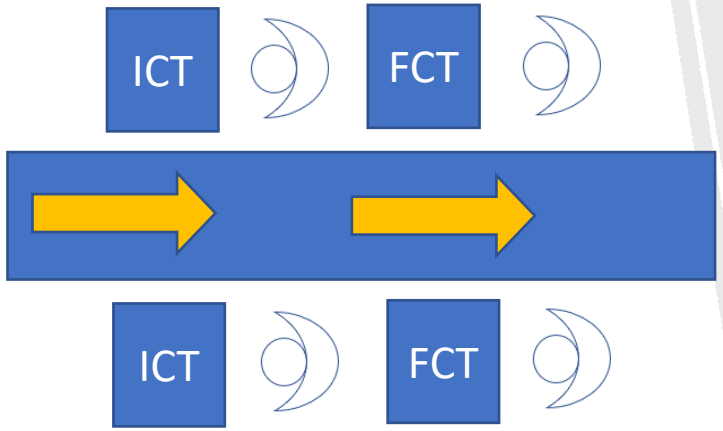
CONTENTS

1. BACKGROUND

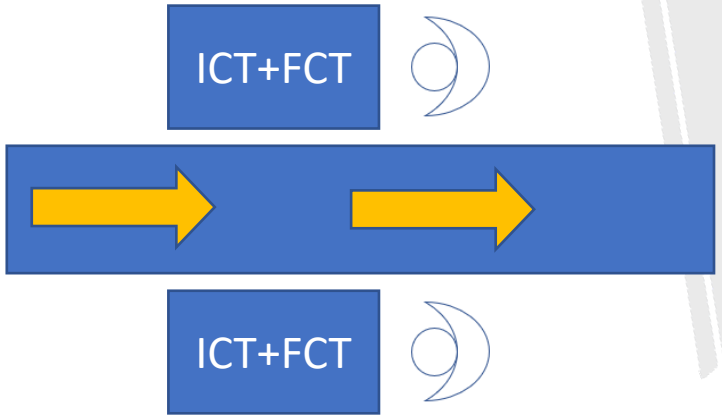
1. The customer's original production line has 2 ICT (J brand) and 2 FCT test machines (customized), which requires 4 operators to produce normally.
2. FCT can only power on the DUT and measure 8 sets of voltage values.
3. Test record is not bound to the bar code, so quality traceability cannot be carried out.



Before	ICT(J brand)	FCT（customized）
Equipment	2	2
Operator	2	2
Test Speed(S/PCS/EQM)	13	18
Test Capacity(PCS/H/EQM)	277	200
Total Test Capacity （PCS/H）	277*2=554	200*2=400
Devices Covered	LCR, Diode, Transistor, FET…	Voltage conversion module circuit
Test Record	Unable to bind barcode	Unable to bind barcode

2. PURPOSE

1. Integrate ICT and FCT tests in the same section, only 2 operators are required.
2. In addition to power-on and voltage measurement, it is also necessary to test related circuit modules such as relays and digital devices.
3. Binding test records with barcodes, customers can query the test records according to the barcodes.



After	ICT+FCT（PTI-818S）
Equipment	2
Operator	2
Test Speed(S/PCS/EQM)	20
Test Capacity(PCS/H/EQM)	180
Total Test Capacity（PCS/H）	180*2=360
Devices Covered	In addition to basic components, the test also covers relays, voltage conversion modules and logic circuit modules
Test Record	The test record is bound to the barcode for easy query

3.1 DESCRIPTION

This case integrates customer ICT test and FCT test in the same fixture to test on PTI-818S test equipment. The test items include:

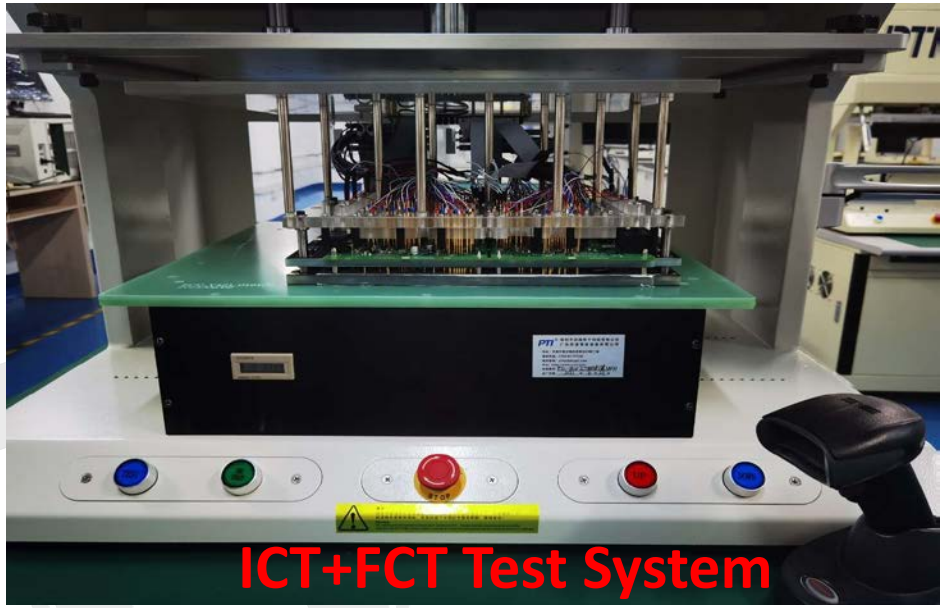
HV Detect（H）

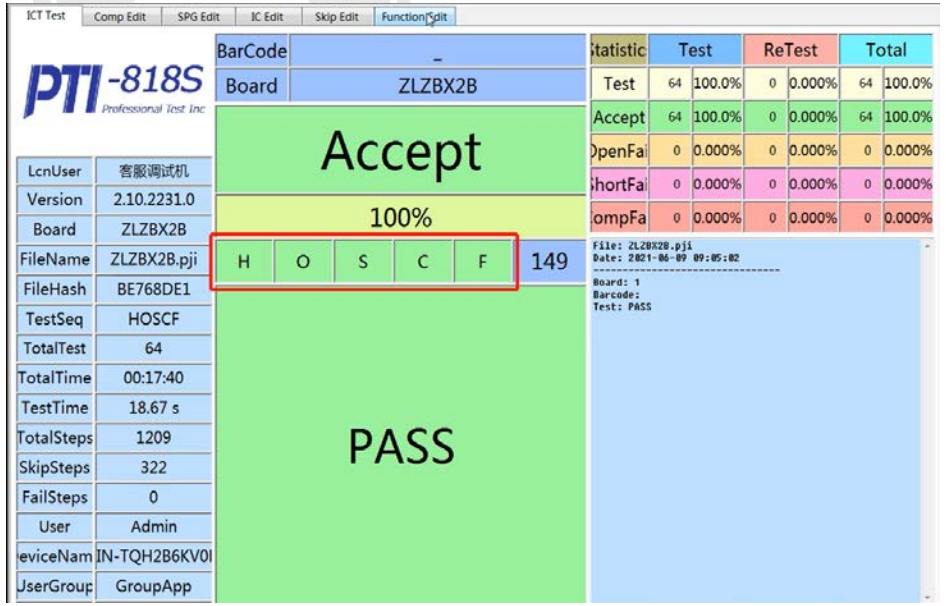
Open Test（O）

Short Test（S）

Component（C）

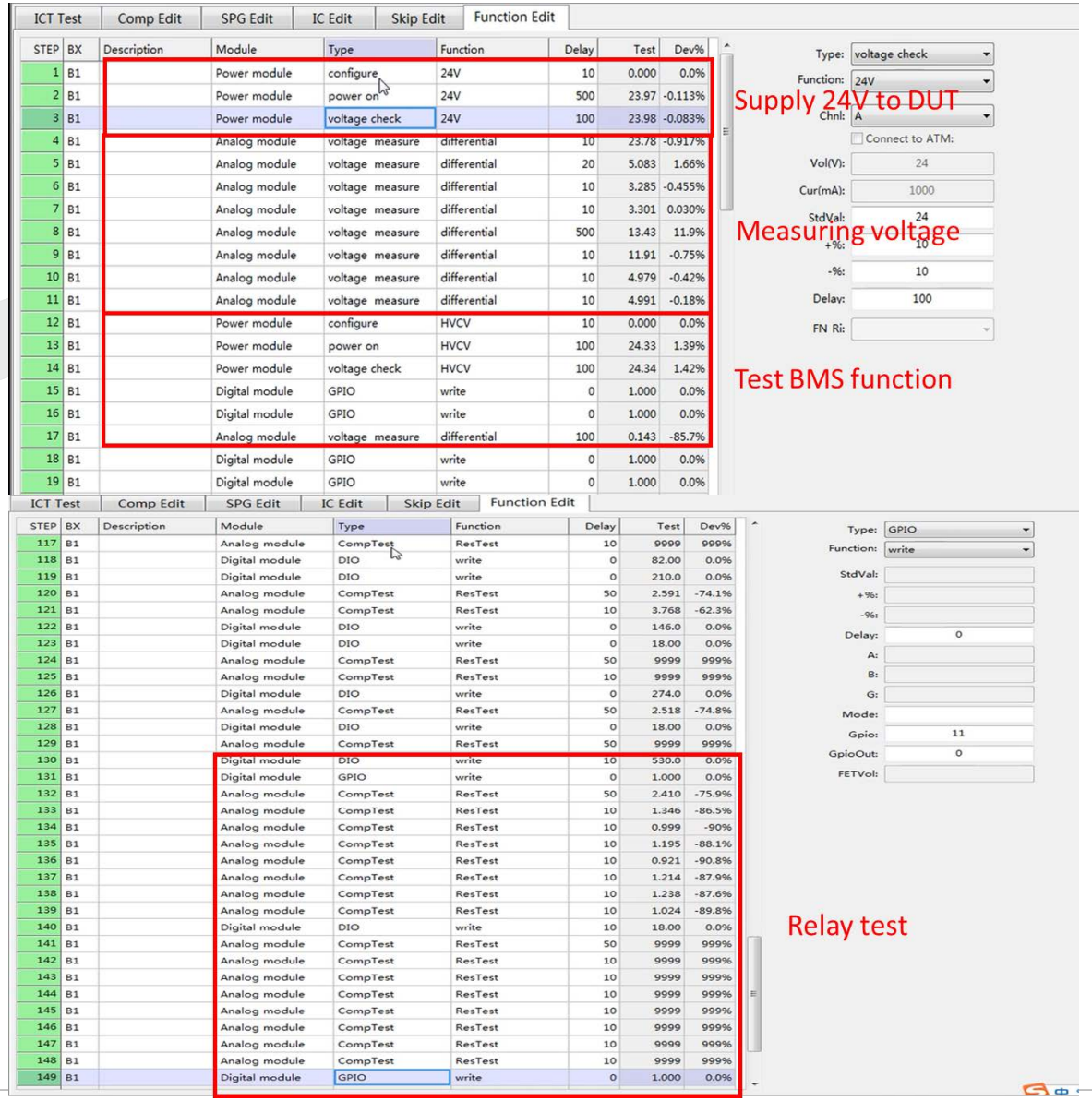
Function（F）





3.2 DESCRIPTION

In the FCT test, in addition to powering the board and measuring the voltage. This project also adds BMS module function test, the relay test, which effectively improves the test coverage of DUT.



4. SUMMARY

NO.	ITEM	BEFORE	AFTER	REMARK
1	Operator	8	4	Day shift and night shift
2	Test Capacity(PCS/Day)	6400	5760	The equipment has a daily production time of 16 hours
3	Single capacity（PCS/Day）	800	1440	
4	Employee salary expenditure/year	8*5000*12=480,000	4*5000*12=240,000	5000/person
5	Test Coverage	80%	90%	
6	Test Record	Unable to bind barcode	The test record is bound to the barcode for easy query	

Summary: After the transformation, the single-person productivity of the employee has increased by 80%, and the employee's salary expenditure has been saved by 240,000/year. The test coverage rate has been increased by 10%, and the test records are bound to the barcode, which makes the quality of the product more reliable and traceable.

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Thank you!

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