

## Eight Discipline Report (8D Report)

To: Customer	8D report No: 20230602
From: : Chicony Power Technology	RMA claim No.:
CC : NA	Chicony P/N: N355A001P-LX01-X2
	Corresponding Customer P/N:
Submit Date: Jun.2 <sup>nd</sup> , 2023	Product description:
Receive Date: Jun.9 <sup>th</sup> , 2023	Defect D/C or Lot No: D/C 2312 (lot:345)

Subject : 1pcs couldn't turn on in customer.(生產/ 焊錫不良, D106 empty solder)

### D1.) 問題解決成員(Use Team Approach)

主持者 (Team Leader) : JT\_Ho

成員 (Internal Team Members) :

MFG: Jt\_Ho ,Pai\_Peng

ENG: BP\_Feng , Zheng\_Xie, Bailong\_Pan, CL\_Chen

MQA: Anny\_Li

RD: Jack\_Chen,Nick\_Wu

### D2.) 問題說明(Problem Description)

(Note: Use who, what, when, where, why, how, how many to specify the problem)

6 月 2 收到反饋 1 台 N355A001P-LX01-X2 不良 · RD 分析為 D106 空焊.

On Jun 2<sup>nd</sup>, Received the feedback 1pcs Chicony Landscape LVPS (Chicony P/N: N355A001P-LX01-X2) was defective,

RD analysis was D106 solder empty.

SN: 20L4360-07-N-000-3068-0141

### D3.) 實施及確認暫時(圍堵)行動(Implement and Verify Containment Action)

1. 庫存品調查(Survey Chicony inventory now): 20L4360 0 pcs
2. 出貨記錄調查(Survey the Shipping Record): 20L4360 345pcs(D/C 2312).

#### D4.) 界定及確認真正肇因(Define and Verify Root Cause )

##### 4.1 6月2日收到 RD 分析結果,工廠立即召集工程(PE/TE)/品保(QE)/製造對結果進行確認分析.

We called Engineering (PE/TE) / Quality Assurance/Production attending the meeting immediately subject to analyze the defect when we received the analysis result on June 2nd.

##### 4.2 生產履歷: Production record

查詢 SFCS 系統, 20L436007N00030680141 對應工單: T3N0920Z(225pcs)為 2023/3/17 生產,未發現異常.

如下述

Check SFCS(Shop Flow Control System)for the defects, product work order : T3N0920Z(225 pcs), Production on Mar 17th ,2023,We found that there're no abnormality.

Travel Card

Customer SN20L436007N00030680141

Query

Export

Batch Exp

Work Order

T3N0920Z

Part No

N355A001P-LX01-X2

Version

N/A

SPEC1

OutPut Time

2023/3/21 下午 08:21:53

Status

Complete

Serial Number

GT3N0920Z00024

Customer SN

20L436007N00030680141

QC LotNo

IT3N0920Z00003

Pallet No

IT3N0920Z00003

Carton No

HT3N0920Z00012

Box No

N/A

Travel

Repair

Quality Control

KeyParts

Rework

Work Order

Current

Burn In

Work Order	Serial Number	Process Name	Current Status	Work Flag	In Process Time	Out Process Time	In PDLine Time
T3N0920Z	GT3N0920Z00024	AOI TEST	Normal	Normal		2023/3/17 下午 02:33:02	2023/3/17 下午 02:33
T3N0920Z	GT3N0920Z00024	C-AOI	Normal	Normal	2023/3/17 下午 02:33	2023/3/17 下午 07:58:04	2023/3/17 下午 02:33
T3N0920Z	GT3N0920Z00024	ASSY	Normal	Normal	2023/3/17 下午 07:58	2023/3/17 下午 08:25:02	2023/3/17 下午 02:33
T3N0920Z	GT3N0920Z00024	PRE BURN-IN	Normal	Normal	2023/3/17 下午 08:25	2023/3/17 下午 08:31:08	2023/3/17 下午 02:33
T3N0920Z	GT3N0920Z00024	HI-POT	Normal	Normal	2023/3/17 下午 08:31	2023/3/17 下午 08:34:12	2023/3/17 下午 02:33
T3N0920Z	GT3N0920Z00024	BurnIn-Start	Normal	Normal	2023/3/17 下午 08:34	2023/3/18 上午 08:32:21	2023/3/17 下午 02:33
T3N0920Z	GT3N0920Z00024	BurnIn-End	Normal	Normal	2023/3/18 上午 08:32	2023/3/20 下午 12:38:37	2023/3/17 下午 02:33
T3N0920Z	GT3N0920Z00024	HI-POT/GROUPE	Normal	Normal	2023/3/20 下午 12:38	2023/3/20 下午 05:35:39	2023/3/17 下午 02:33
T3N0920Z	GT3N0920Z00024	ZC OUT-220V	Normal	Normal	2023/3/20 下午 05:35	2023/3/20 下午 06:32:32	2023/3/17 下午 02:33
T3N0920Z	GT3N0920Z00024	FINAL ATE	Normal	Normal	2023/3/20 下午 06:32	2023/3/20 下午 06:54:32	2023/3/17 下午 02:33
T3N0920Z	GT3N0920Z00024	VISUAL INSPEC	Normal	Normal	2023/3/20 下午 06:54	2023/3/20 下午 07:03:07	2023/3/17 下午 02:33
T3N0920Z	GT3N0920Z00024	PACKING	Normal	Normal	2023/3/20 下午 07:03	2023/3/20 下午 07:03:48	2023/3/17 下午 02:33
T3N0920Z	GT3N0920Z00024	QC	Normal	Normal	2023/3/20 下午 07:03	2023/3/21 下午 08:21:53	2023/3/17 下午 02:33

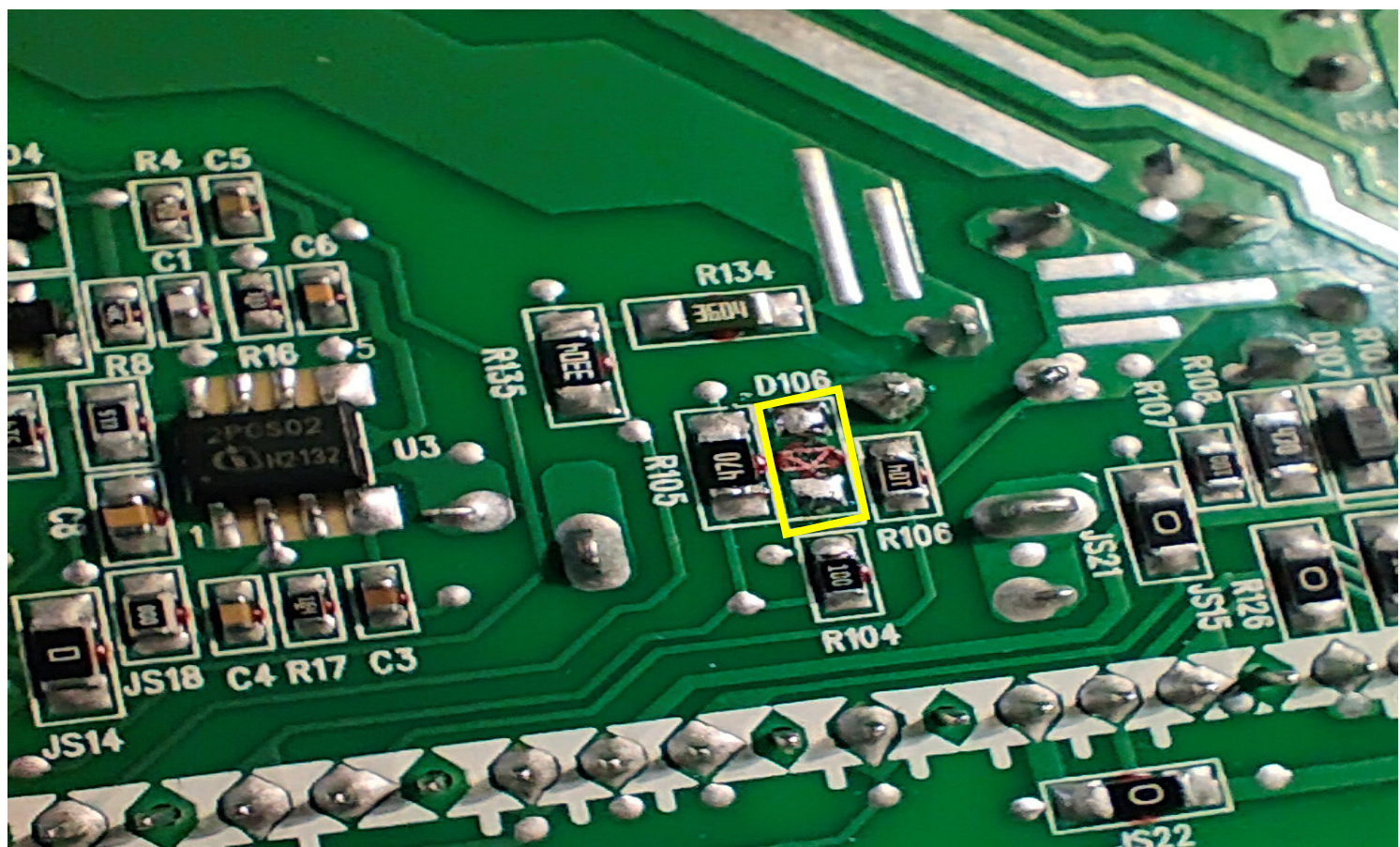
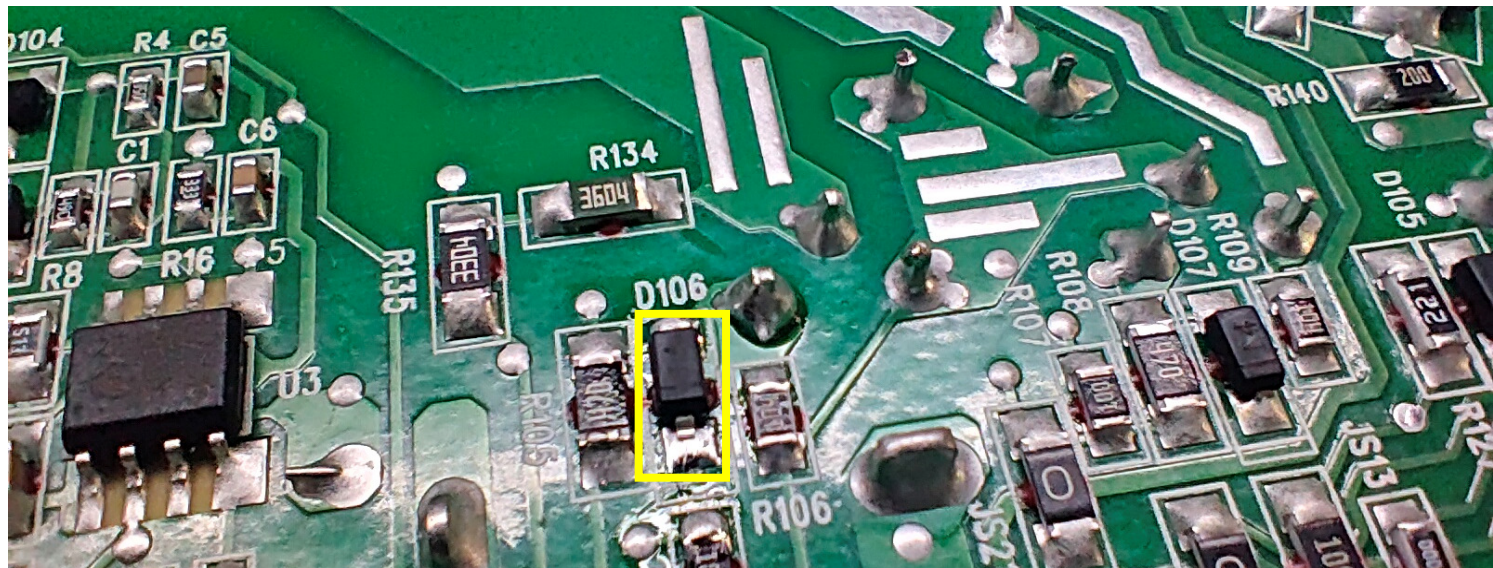
##### 4.3 失效分析 / Failure analysis

###### 4.3.1 由於不良品在台北端進行分析驗證，工廠端取一臺良品，並將 D106 空焊/缺件，用以模擬不良品



進行分析驗證。

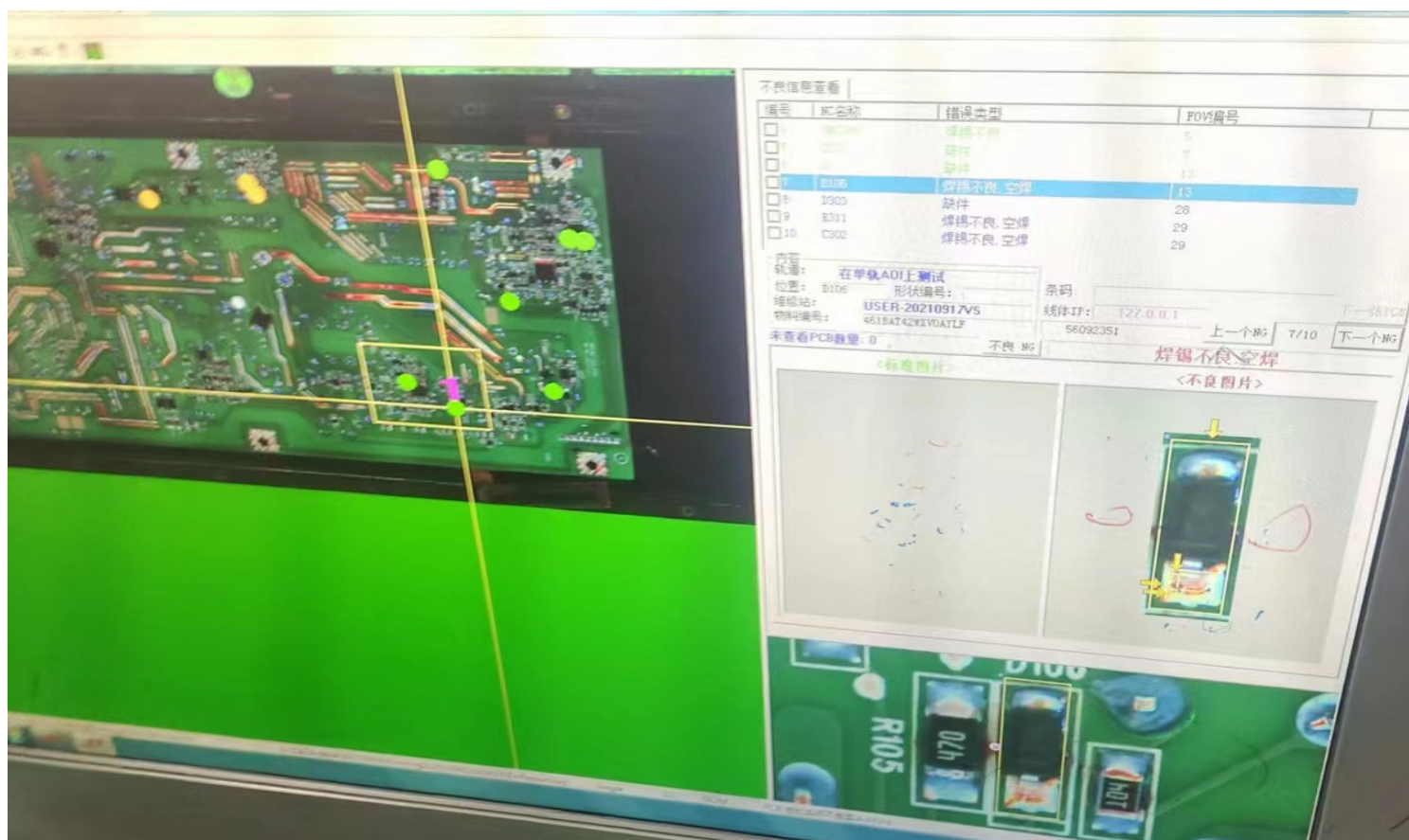
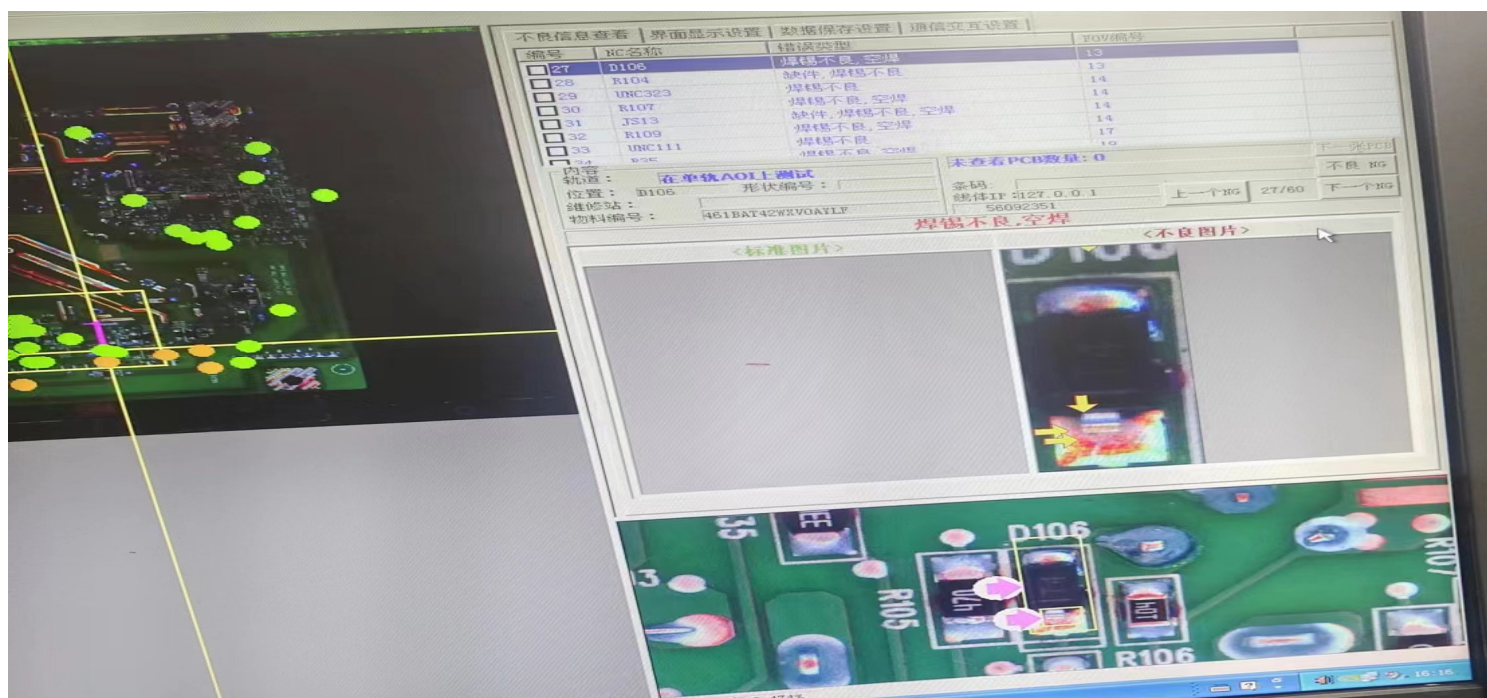
As the defective product was analyzed at the Taipei, At the factory, took a good product and emptied D106 solder or missed D106 part to simulate the defect for analysis.



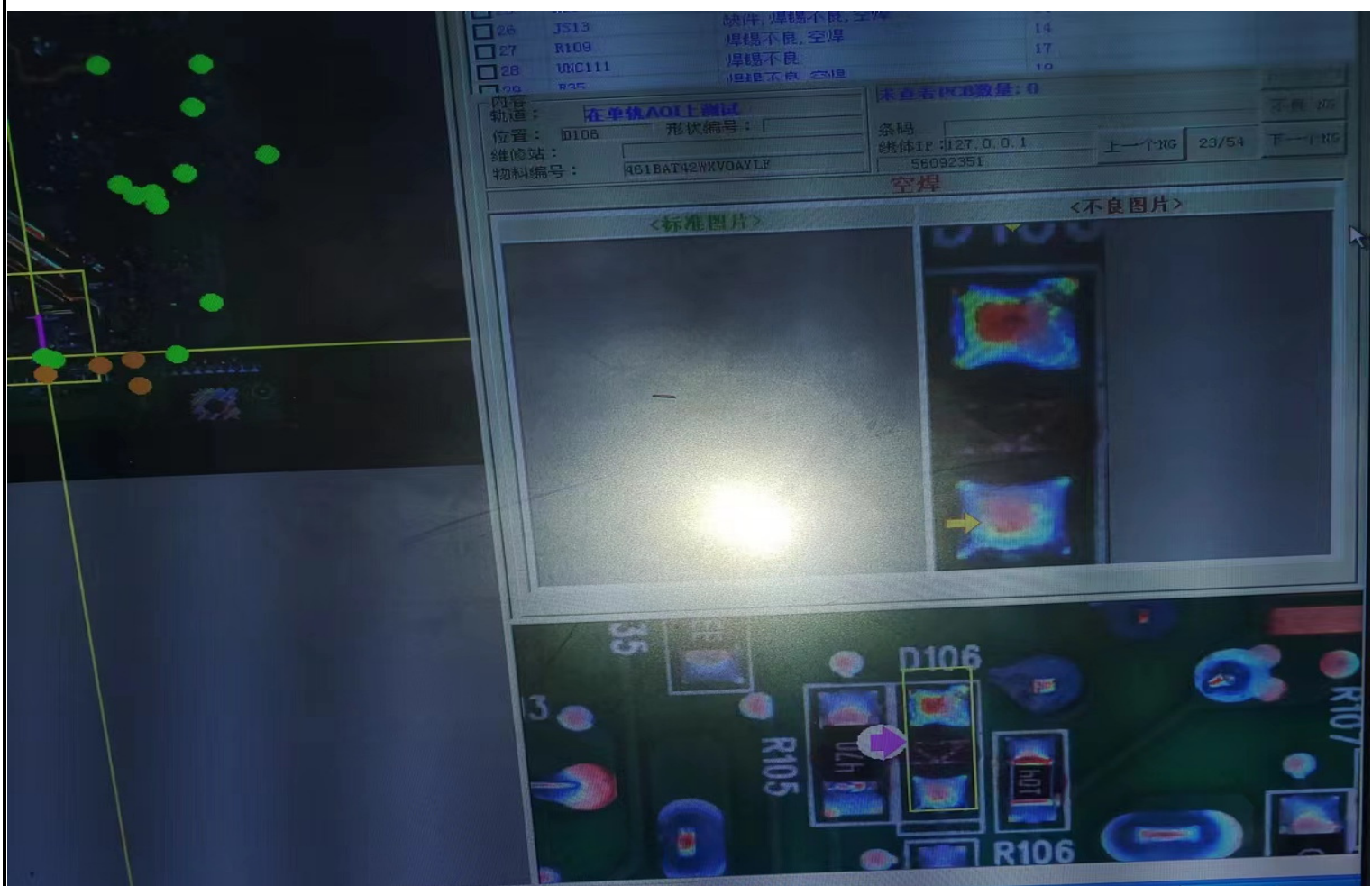
4.3.2 進行 AOI1, AOI2 測試，D106 空焊/缺件不良均可測出。

In the AOI1, AOI2 test, D106 empty solder or missing part could be tested.









4.3.3 查詢 2023/3/17 當天 AOI 測試記錄，沒有發現 D106 位置不良。

Check the AOI records of 2023/3/17, no D106 defects was found.

AOI 測試記錄報告: AOI test record:



AOI測試報表2023.6  
.6.xlsx

4.3.4 由於 layout 需變更，此次生產沒有購買 ICT 治具，生產沒能進行 ICT 測試，導致產品因零件空焊/缺件等不良流出的風險增加。

Due to the PCB layout need to be changed, no ICT fixture were purchased during the manufacturing process and the product were not tested for ICT, resulting in increased risk of product outflow such as empty solder or missing parts.

D5.) 確認矯正行動(Corrective Action Verification)

1. 正常生產前購買 ICT 治具，保證產品 100%經過 ICT 測試，且測試 Pass 後方可流入下一站，避免零件空焊/缺件等不良流出。

Buy ICT fixture before normal production, ensure that 100% of the products have been tested by ICT, after the ICT test Pass the products can flow to the next station, to avoid defect parts such as empty solder or missing parts outflow.

D6.) 實施預防改善措施 (Implement Permanent Corrective Actions)

追蹤後續生產的機台是否有類似的不良。

Track whether there are similar defects in subsequent production machines.

D7.) 預防再發生措施 (Prevent Recurrence)

水平展開對廠內的所有使用此料的產品進行追蹤及記錄,以避免类似問題再发生

Expand horizontally to track and record all products using this material in the factory, to avoid the similar problems will be happening again.

D8) 確認並感謝問題解決成員(Check and Congratulate the Team)

上述品質問題造成貴司困擾,實感抱歉.我司仍將持續追蹤客戶端反饋的問題,若客戶對於上述相關矯正與預防措施有任何意見,誠請告知以徹底改進問題。

We are deeply sorry for the trouble which caused by the above quality problems .Chicony Power will

continue tracking the problems and report to the customer, if the customer has any corrective action or any comment to the preventive measures, please let us know for further improvement.

	Title	Signature	Date
Prepared by	CQS	Anny_Li	2023-6-9
Approved by	QRA Manager	JT_Ho	2023-6-9