EMB-845M A1.0

Thermal Image Analysis Report

Report No: 04E080020

Release Date: Dec. 27, 2004

2004-12-24	Wenyuan Yang	Rex Chang
Issue Stamp	**Manager**	**Test Engineer**

Thermal Image Analysis

Ⅰ. **Model Name:** **EMB-845M**

Ⅱ. **Description:** Long – life Mother Board

Ⅲ. **Date:** **Dec. 27, 2004**

Ⅳ. **Measure Site:** **AAEON QE Dept.**

Ⅴ. **Issued by:** **Rex Chang**

Ⅵ.**Equipment:**

1. TVS-100 series by NIPPON AVIONICS CO., LTD.

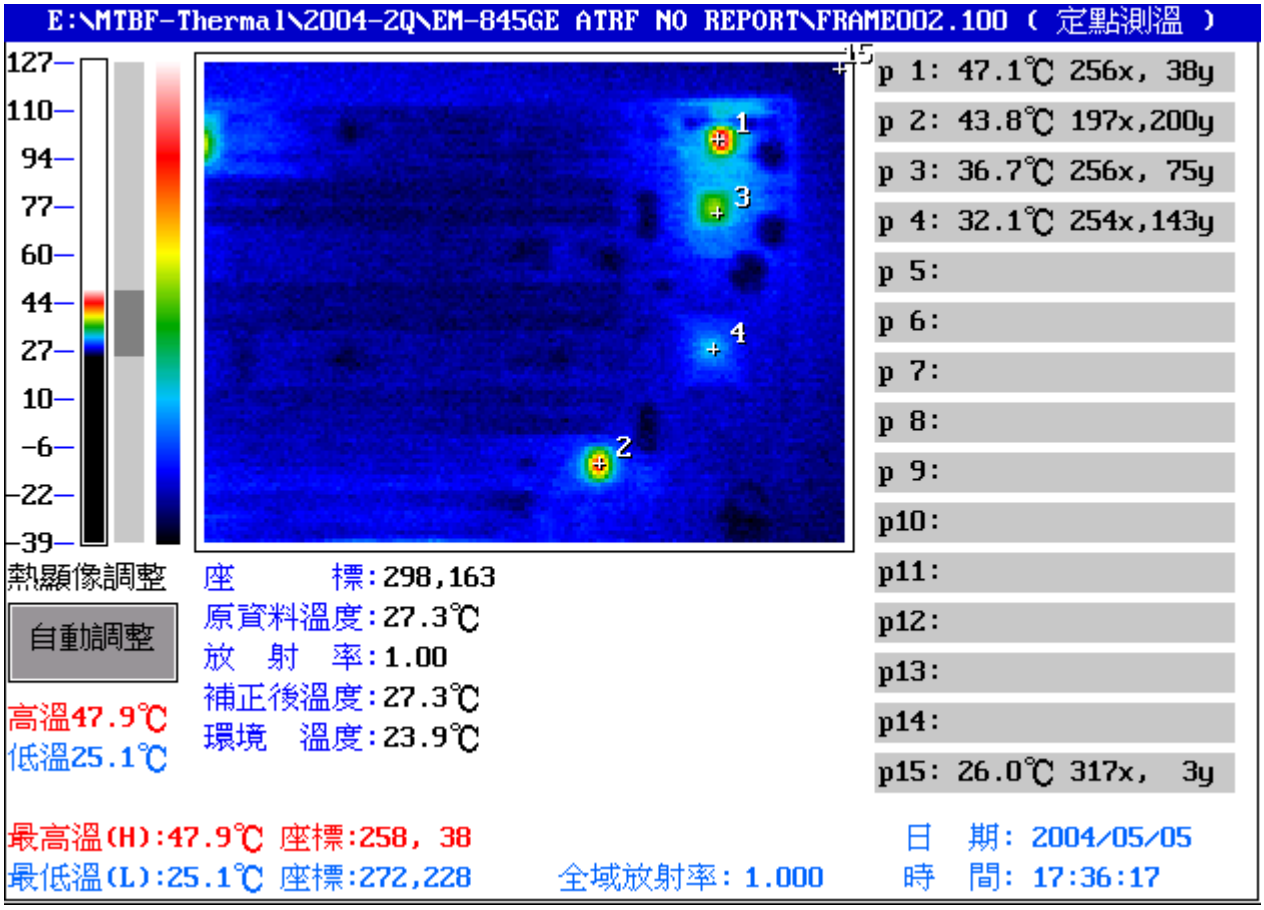
Ⅶ. **Simulation Environment:**

- **Temperature: 22.9 degrees C**
- **System Configuration : EMB-845GE A1.0 (BIOS ver: A2.0)**
  CPU: Intel Pentium 4 / 3.06GHz / FSB 533MHz
  Memory: KINGMAX KDL684J44A-60 (DDR-333) / 256MB
  HDD: Seagate ST31276A
- **Application Software: Windows 2000 run HCT9.5**
- **Take Picture Time: Power on 2 hours after**

AAEON Technology Inc.
5F, No.135, Lane 235, Pao Chiao Rd.,
Hsin-Tien City, Taipei, Taiwan, R.O.C.
TEL: +886-2-8919-1234
FAX: +886-2-8919-1056
http://www.aaeon.com.tw

Temperature Profile Test:

Component Side – 1:



Point	Position	Describe	Ts	Tm	Note
1	U1	LM78L05ACM		47.1℃	
2	U7	ST75185CTR		43.8℃	
3	U2	ALC201A		36.7℃	
4	U4	VIA VT6105LOM		32.1℃	
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15		The Room Temperature		26.0℃	

1. Operation Temperature (℃):
Ts = Defined by component specification ; Tm = Measured by QE

Note: The description in red states which temperature is over the specification of the device.

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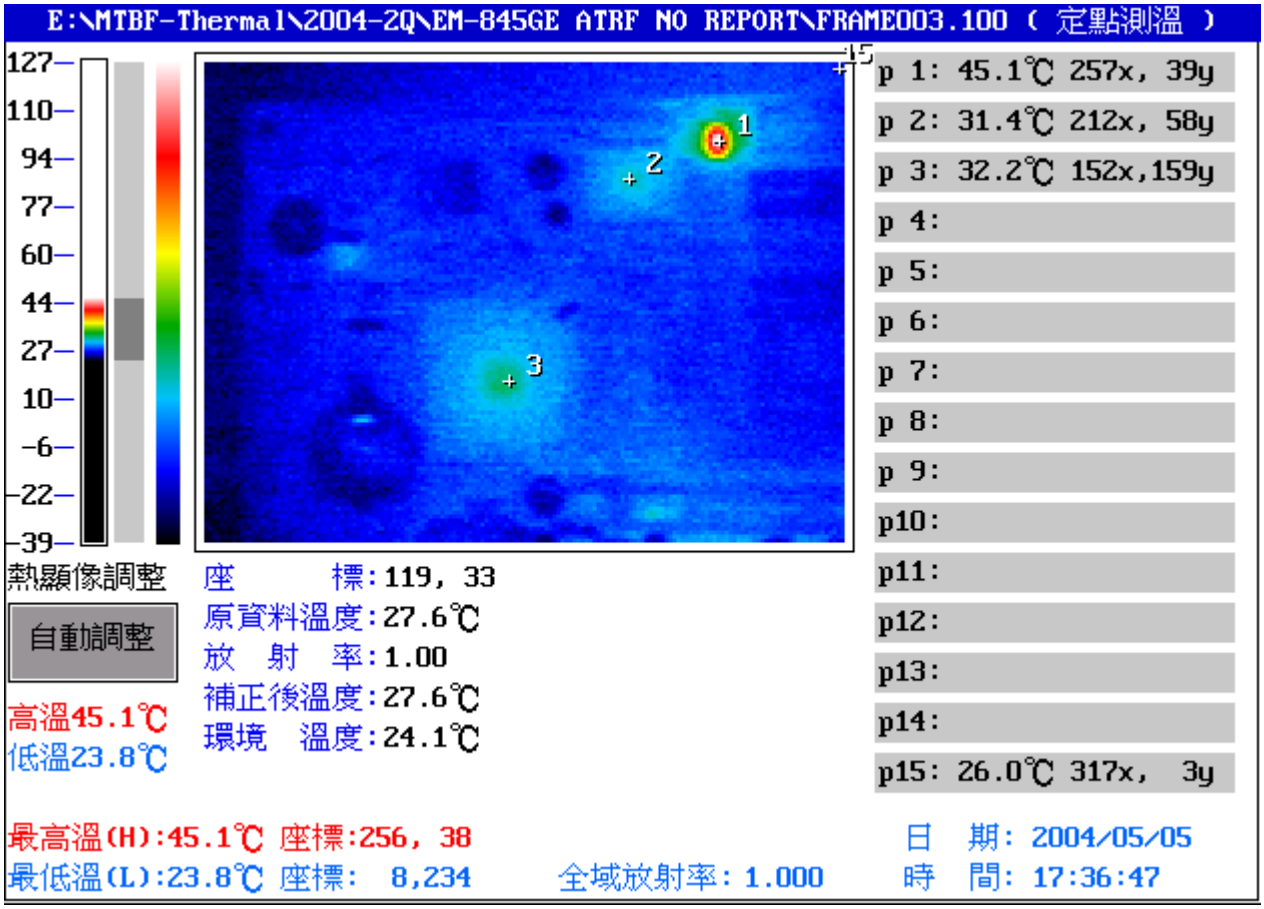
Component Side –2:



Point	Position	Describe	Ts	Tm	Note
1	U13	ST75185CTR		45.1℃	
2	U14	ITE IT8712F-A		31.4℃	
3	U16	Intel FW82801DB		32.2℃	
4					
5					
6					
7					
8					
9					
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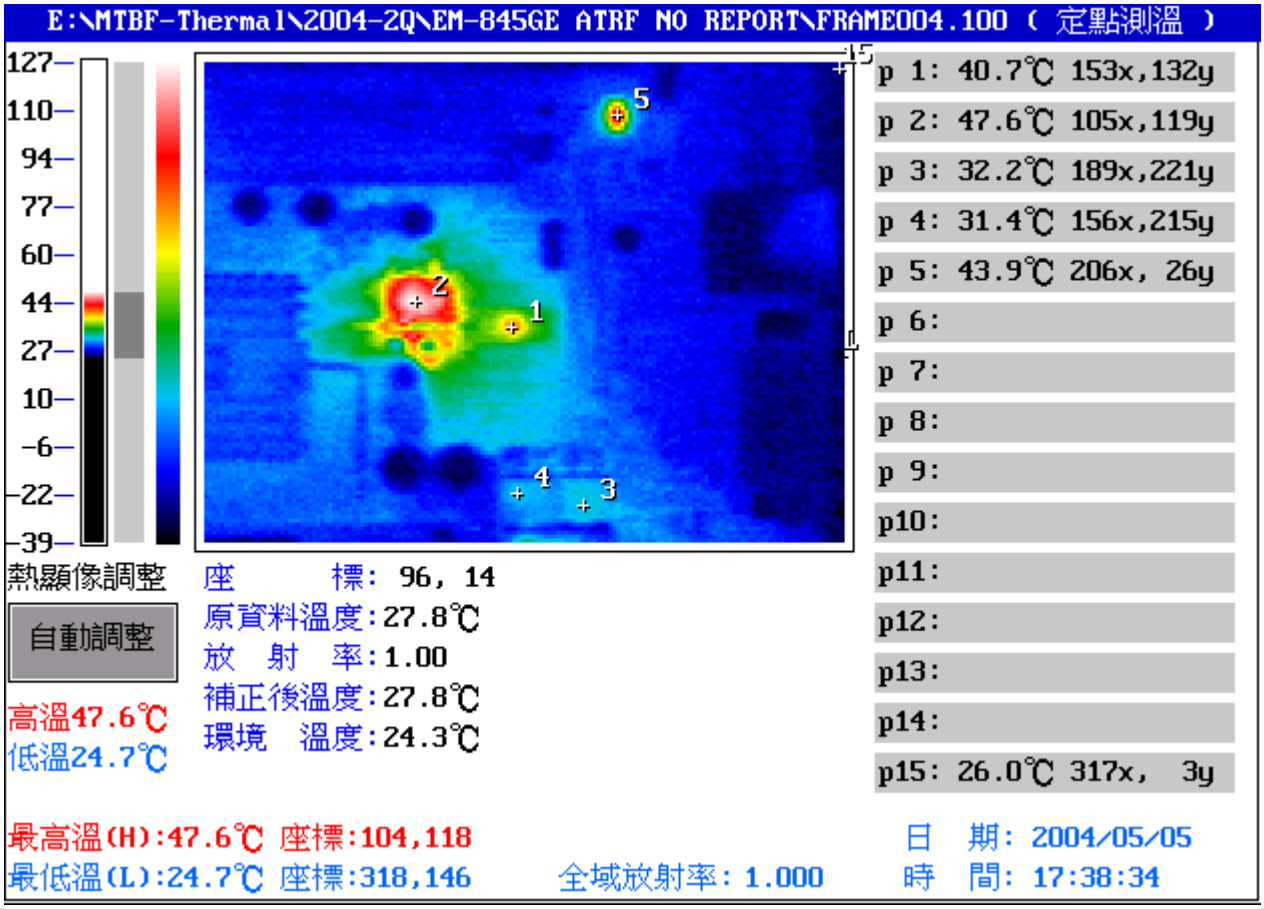
Component Side – 3:



Point	Position	Describe	Ts	Tm	Note
1	U9	RTM360-111R		40.7℃	
2	Q16	IPB14NO3LA		47.6℃	
3	Q9	IRF3711S		32.2℃	
4	Q11	IRF3711S		31.4℃	
5	U7	ST75185CTR		43.9℃	
6					
7					
8					
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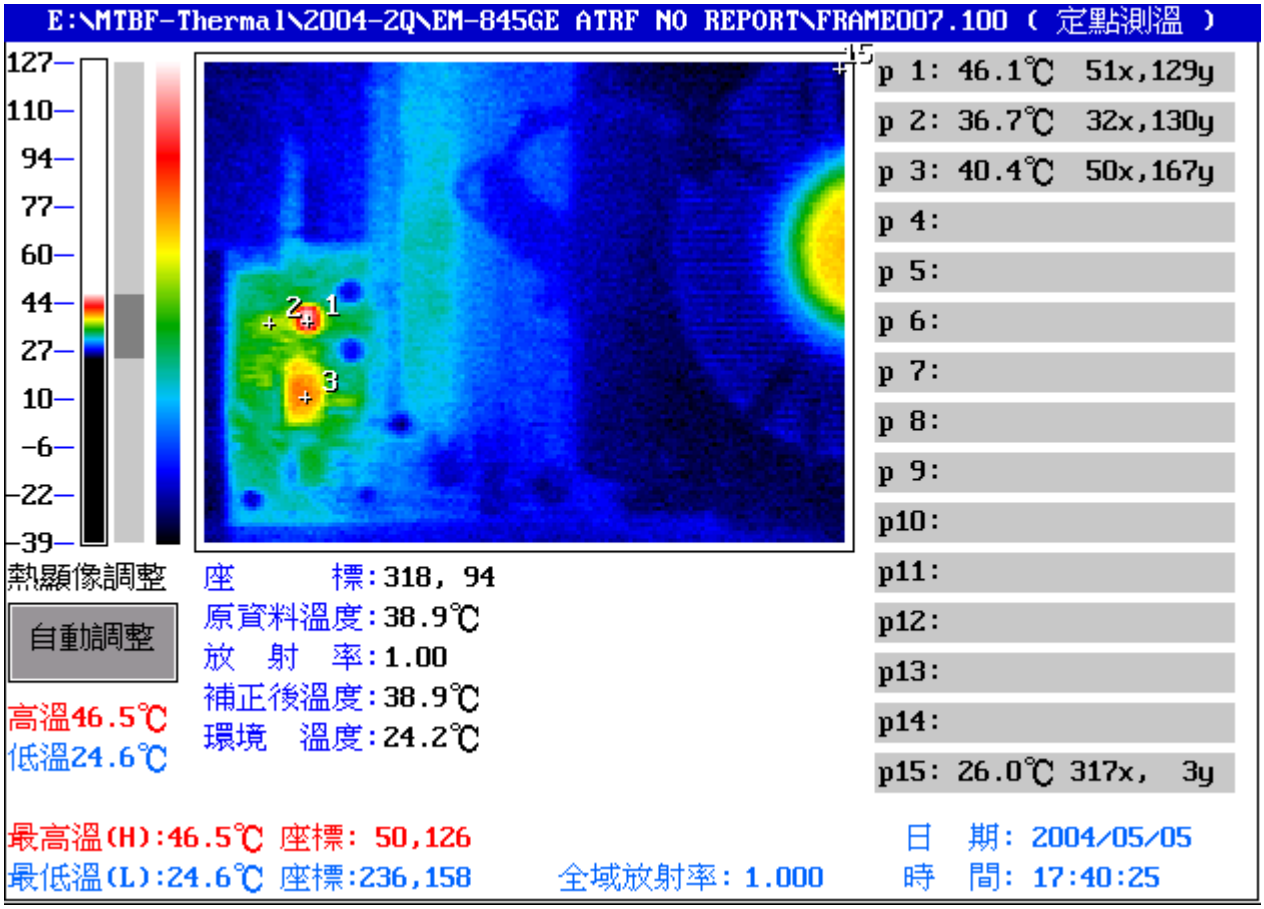
Component Side – 4:



Point	Position	Describe	Ts	Tm	Note
1	U19	RT9173-CS		46.1℃	
2	U21	RT9174		36.7℃	
3	Q31	PH020N03L		40.4℃	
4					
5					
6					
7					
8					
9					
10					
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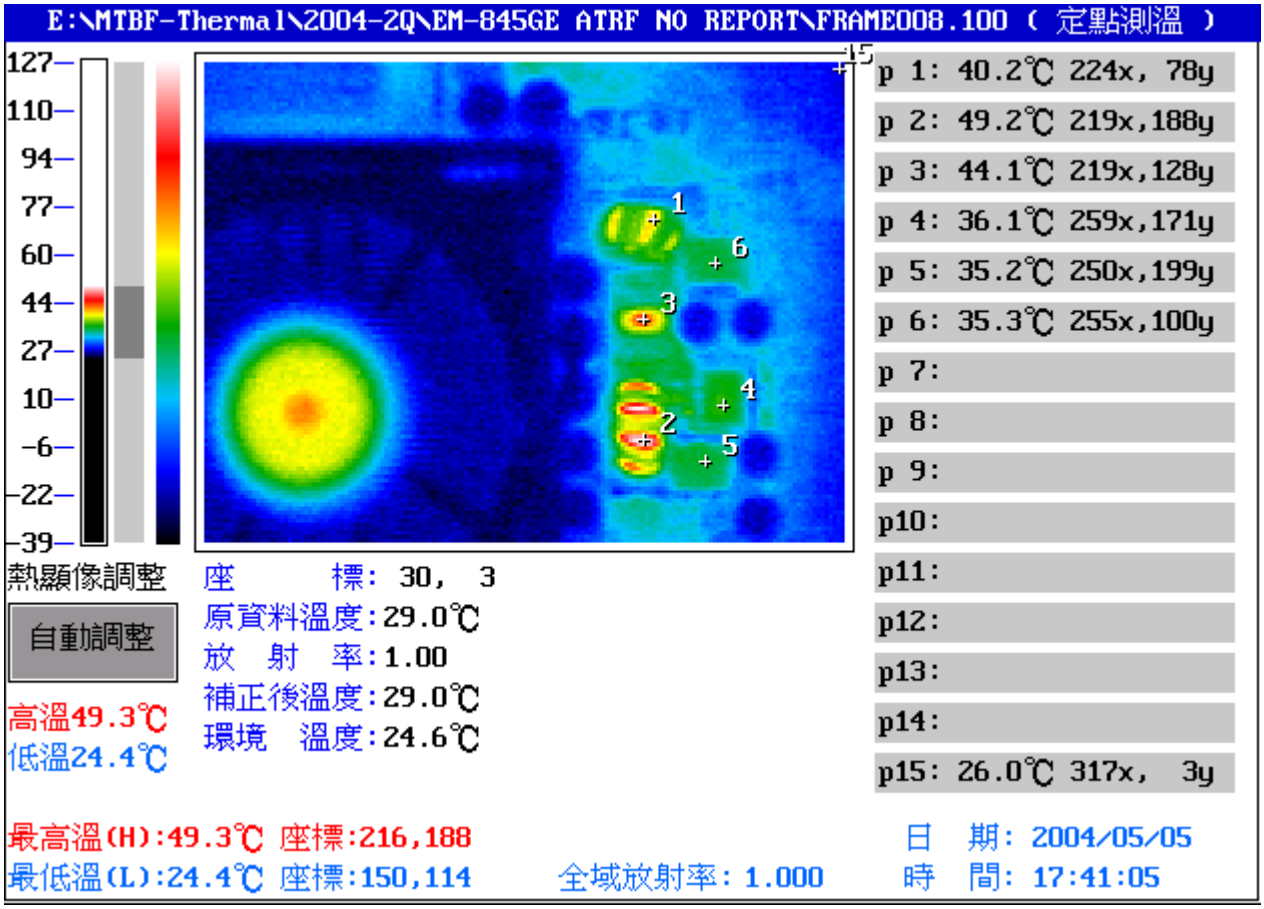
Component Side – 6:



Point	Position	Describe	Ts	Tm	Note
1	L30	CHOCK COIL 1.1uH 200K/30A		40.2℃	
2	L31	CHOCK COIL 1.1uH 200K/30A		49.2℃	
3	U8	HIP66020CD		44.1℃	
4	Q6	FDB7030BL		36.1℃	
5	Q7	IRF3711S		35.2℃	
6	Q5	FDB7030BL		35.3℃	
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