

Reliability Testing Report Of Wetting Balance Test

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1. CUSTOMER BACKGROUND INFORMATION

Company	: AverLogic Technologies, Corp
Address	: 7F-2, No.2, Lane 258, Rui Guang Rd., 114 Taipei, Taiwan
Applicant	: 董守成

2. TEST HISTORY

Register Date	: 08/12/2005	Date Finished	: 08/16/2005
Test Item	: Wetting Balance Test		
Test Method	: Refer to MIL-STD-883E Test Method		
Test Sample	: AL422B-PBF		

Testing Item
Wetting Balance Test..... Page 3

Remark :

- The results only apply to the device under test.
- This report is 10 pages, and no part of it may be abstracted or reproduced.

3. CONDITION, EQUIPMENTS AND DEVICE

3.1 Wetting Balance Test

3.1.1 Test Equipment :

Solder Checker	: RECSCA SAT-5100
Calibrate trace code	: CC50055

3.1.2 Environmental Condition of Laboratory :

Temperature	: $25^{\circ}\text{C} \pm 5^{\circ}\text{C}$
Humidity	: $55\% \pm 10\% \text{ RH}$

3.1.3 Specimen :

Model	: AL422B-PBF
Quantity	: 5 EA

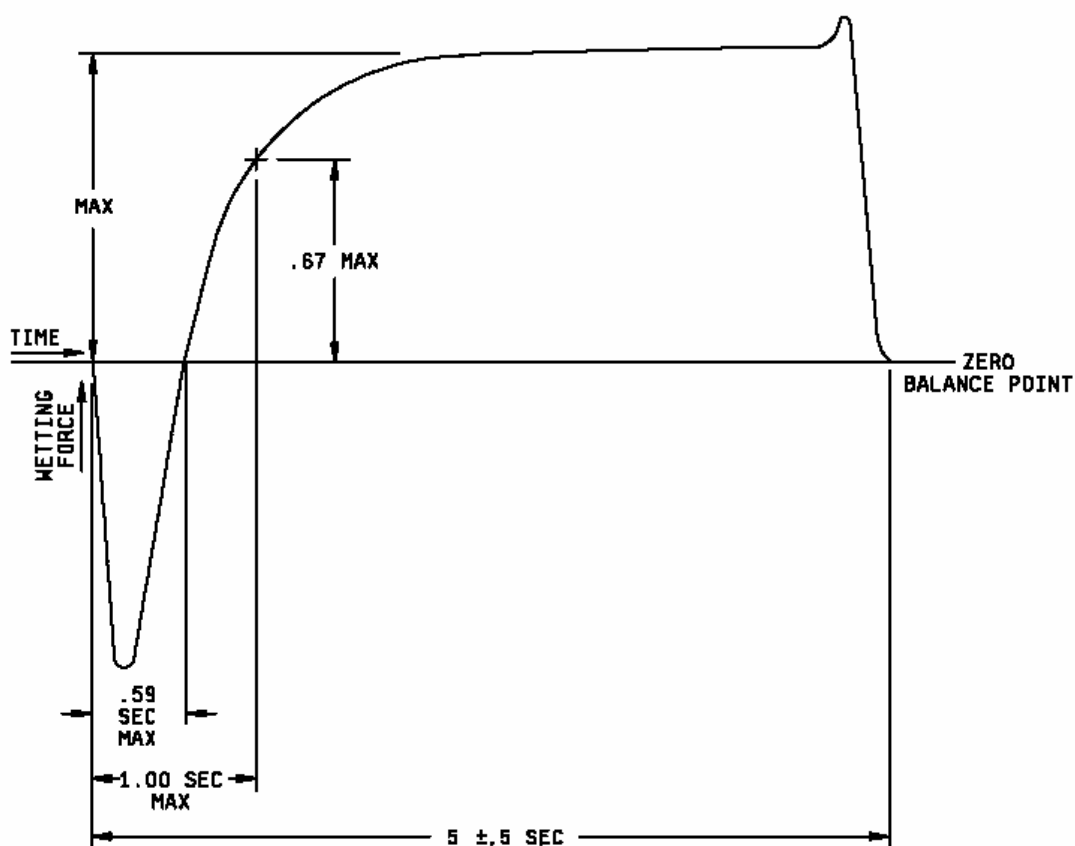
3.1.4 Test Condition :

Wetting Temperature : $235^{\circ}\text{C} \pm 5^{\circ}\text{C}$
Wetting Time : 5 ± 0.5 Seconds
Immersion and withdrawal speed : 1.0 ± 0.25 inch/sec
Solder Globule : 63%Tin 、 37% Lead (add flux before solder)
Flux : Conform to type ROL of J-STD-004(25 percent by weight gum rosin
in a 99 percent isopropyl alcohol solvent)
Flux Immersion Time : 5 to 10 Seconds

3.1.5 Evaluation of resultant meniscograph curves from testing of microelectronic leads. :

The criteria for acceptable solderability during the evaluation of the recordings are:

- That the recorded signal trace crosses the zero balance point at or before 0.59 seconds of test time.
- That the recorded signal trace reaches two-thirds of its maximum value in 1 second or less of test time (see figure)



4. TESTING RESULTS

4.1 Result:

Unit: second

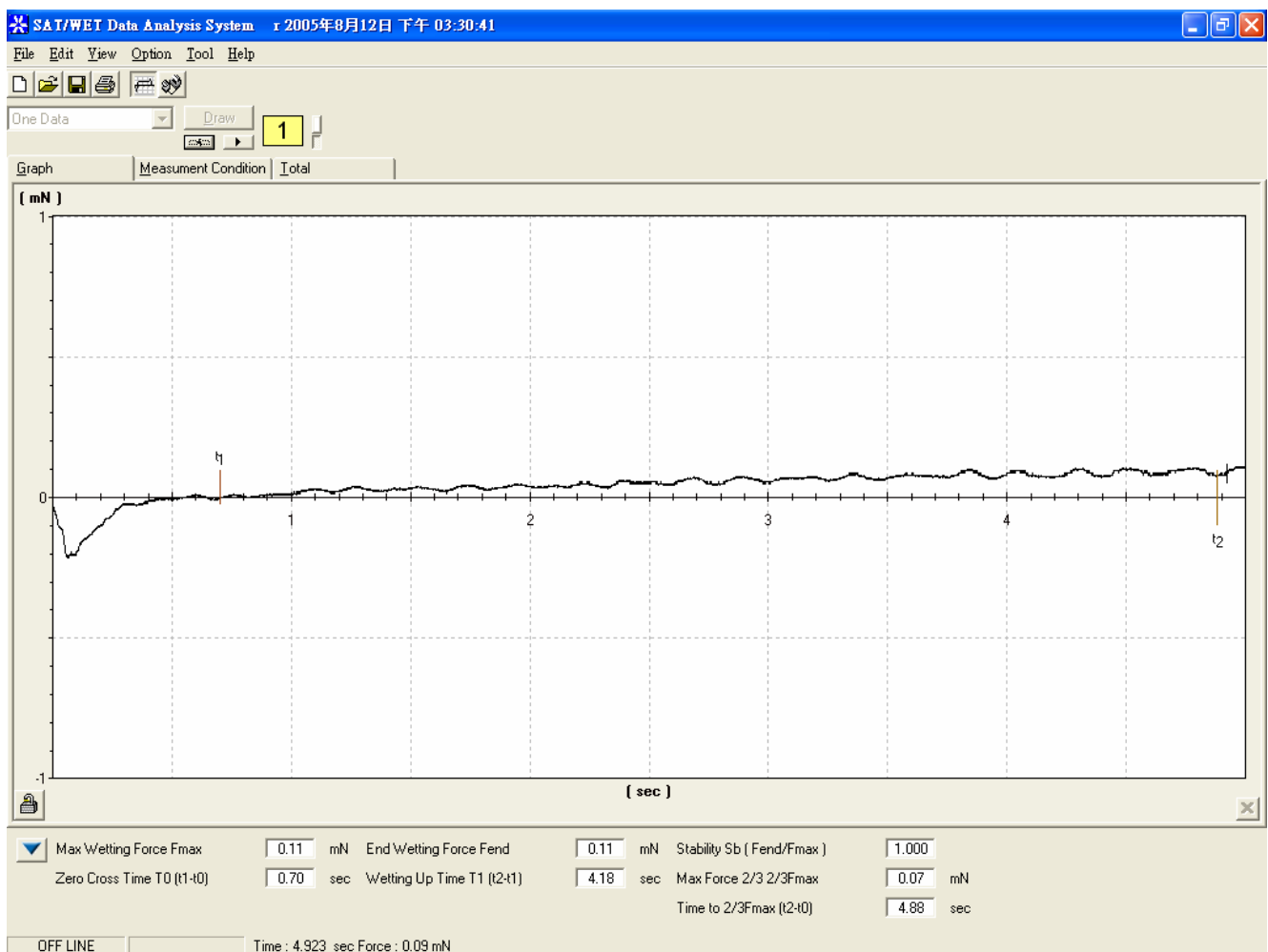
Condition / Pb free			
Sample No.	Curve No.	Criteria a : 0.59 seconds max	Criteria b : 1.00 second max
1	94081785_01	0.70	4.88
2	94081785_02	0.60	4.48
3	94081785_03	0.99	4.90
4	94081785_04	0.83	3.52
5	94081785_05	0.98	4.85

Test profiles see from page 6 to page 10.

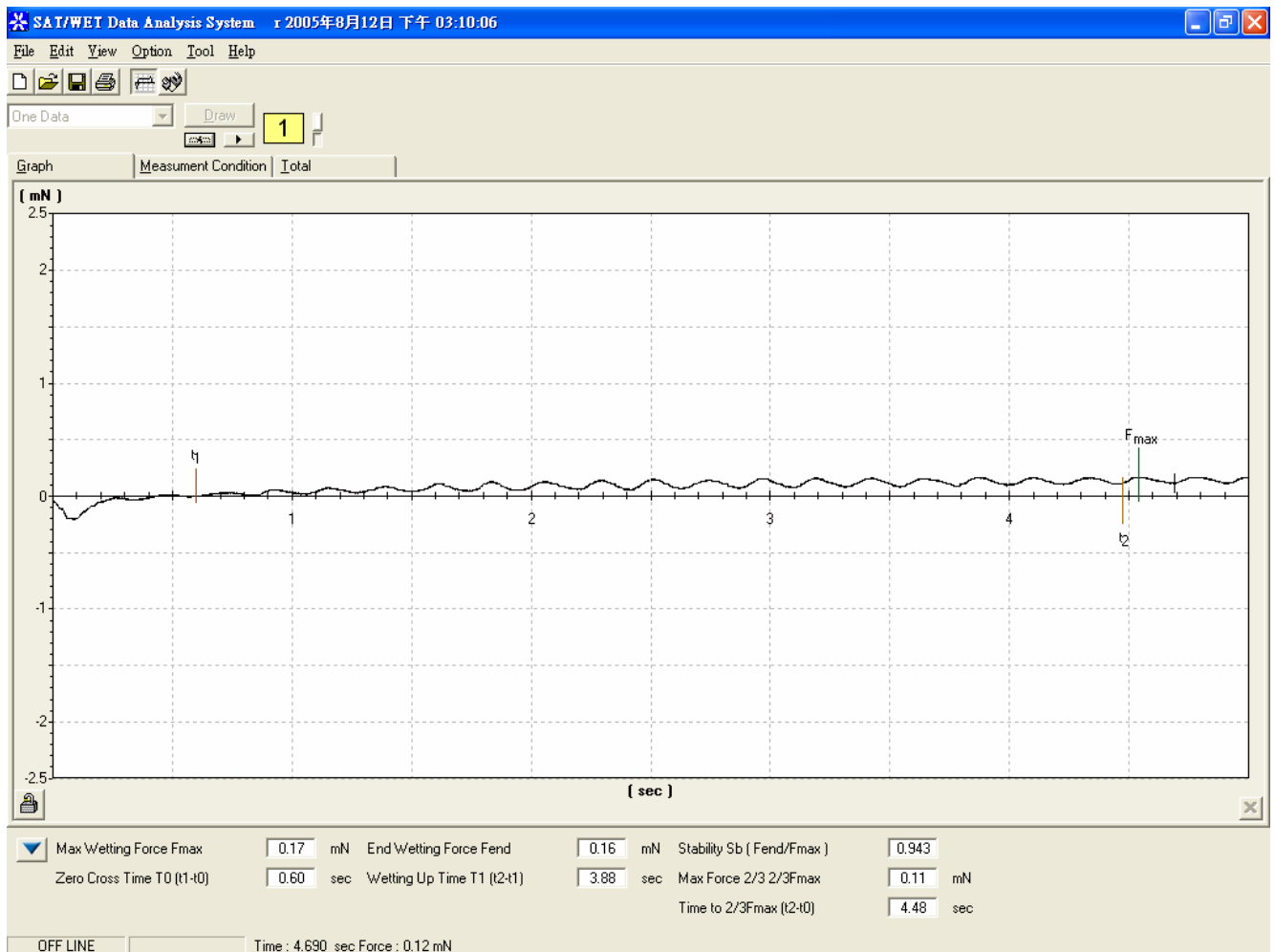
5. IMAGE INDEX

5.1 Wetting Balance Solderability Testing Report

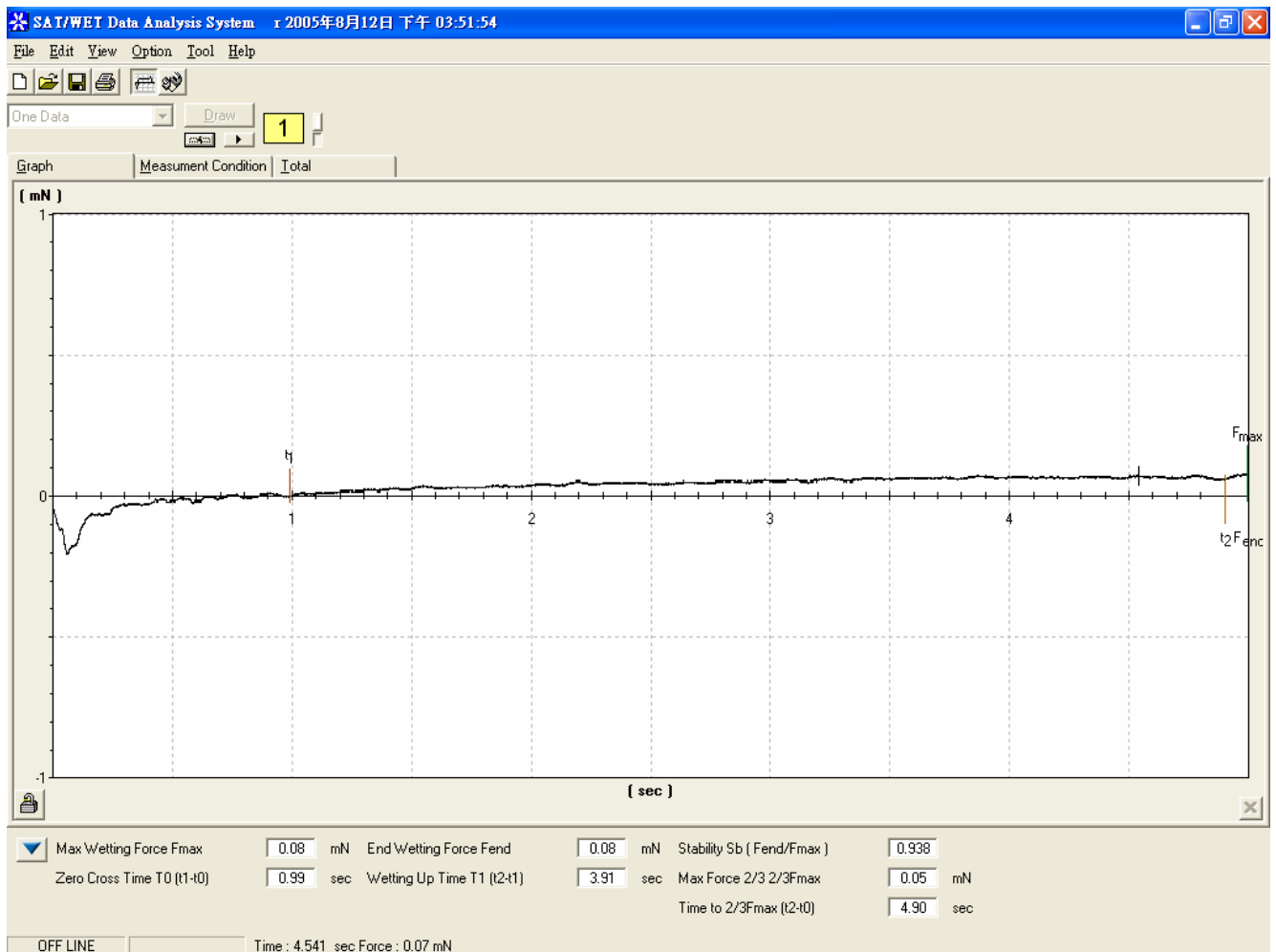
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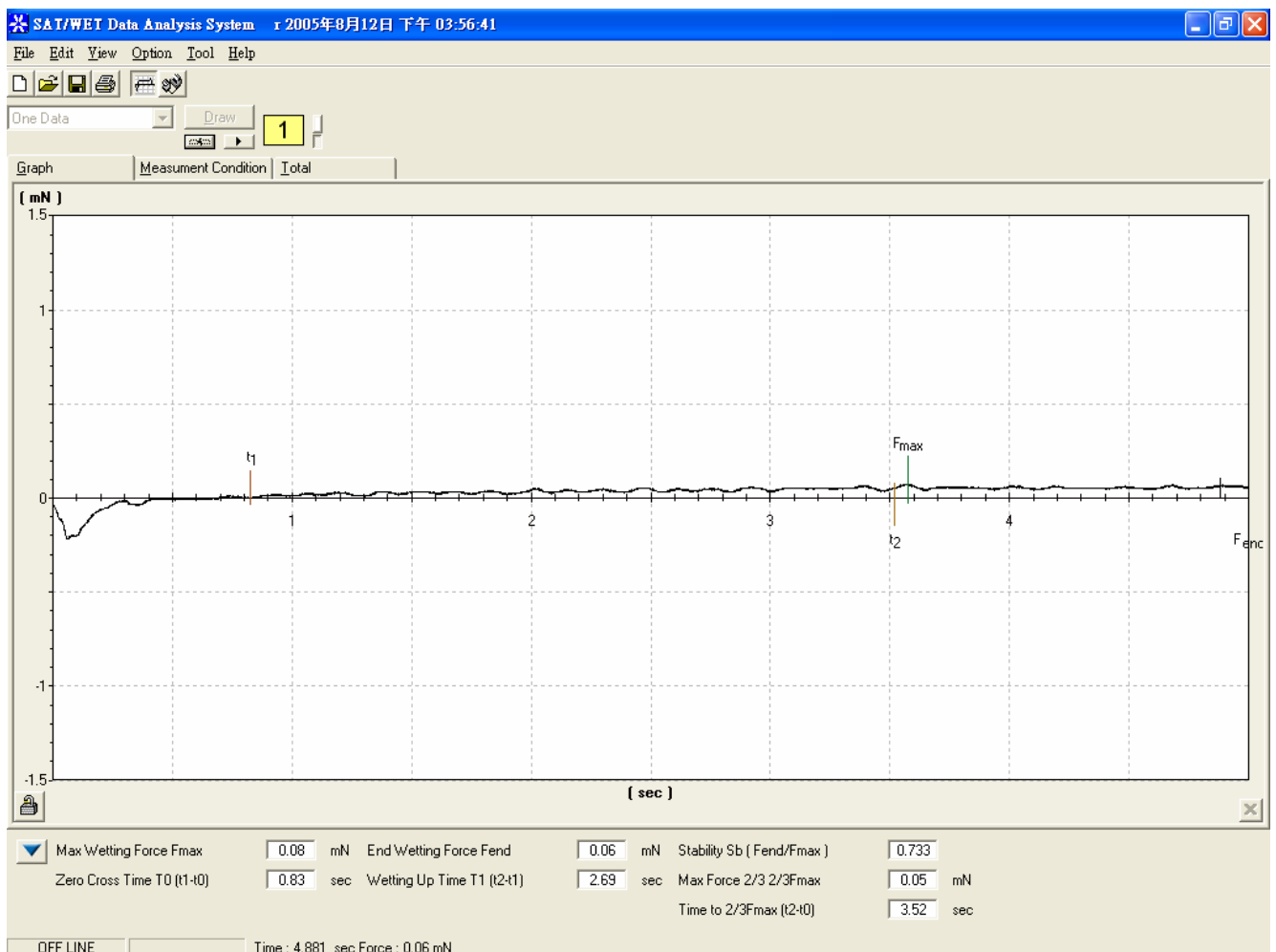
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NO. 94081785_03:



NO. 94081785_04:



NO. 94081785_05:

