

# FREE FALL DROP TEST REPORT

Company : Apacer Technology Inc.  
 Address : 3F, No. 83, Sec 2, Kur Wong Rd. Aspire Park. Lung Tan Hsiang,  
Tao Yuan Hsien, Taiwan, R.O.C.  
 Product Name : Industrial microSD  
 Date Received : MAY 29, 2012  
 Date Tested : MAY 29, 2012

## TESTING LABORATORY IS ACCREDITED BY:

IEC/IECQ 17025 certificate of independent test laboratory approval

Certificate No. : T1091

ISO 17025 accredited in respect of laboratory is approved by TAF

Certificate No. : L0835-090819

ISO 9001 certificate is approved by TUV CERT certification body of TUV NORD Cert GmbH

## WE HEREBY CERTIFY THAT:

The test(s) shown in the attachment were conducted according to the indicating procedures. We assume full responsibility for the accuracy and completeness of these tests and vouch for the qualifications of all personnel performing them.

	Name	Signature	Date
Test Engineer	Yutsai Chen	<i>Yutsai Chen</i>	Aug 10, 2012
Manager	General Lee	<i>General</i>	Aug 10, 2012

## **NOTE :**

1. This report will be invalid if reproduced in part or altered in any way.
2. This report refers only to the specimen(s) submitted to test, and is invalid if used otherwise.
3. This report is ONLY valid with the examination seal and signature of this institute.
4. The tested specimen(s) will only be preserved for thirty days from the date issued, not collected by the applicant.



## TABLE OF CONTENTS

### 1. GENERAL INFORMATION

1.1 DESCRIPTION OF UNIT.....	2
1.2 UNIT OPERATING CONDITION.....	2

### 2. FREE FALL DROP TEST

2.1 TEST EQUIPMENT.....	3
2.2 LABORATORY AMBIENCE CONDITION.....	3
2.3 REFERENCE DOCUMENT.....	3
2.4 TEST CONDITION.....	3
2.5 SUMMARY OF TEST.....	4
<b>ATTACHMENTS.....</b>	<b>5</b>

## **1. GENERAL INFORMATION**

### **1.1 DESCRIPTION OF UNIT**

Manufacturer : Apacer Technology Inc.

Product name : Industrial microSD

Model no. : AP-MSD01GSI-xT and AP-MSD02GSI-xT

Sample quantity : 3 pcs for one model, total for 6 pcs

### **1.2 UNIT OPERATING CONDITION**

None

## 2. FREE FALL DROP TEST

### 2.1 TEST EQUIPMENT

Model	Serial Number	Calibration Date
ACCU DROP 160	3811A	NCR

### 2.2 LABORATORY AMBIENCE CONDITION

Temperature : 23 °C ± 3 °C

Relative humidity : 55 % ± 3 % (RH)

### 2.3 REFERENCE DOCUMENT

The test is based on customer specification

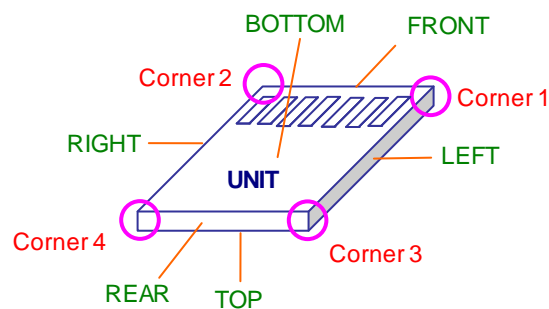
### 2.4 TEST CONDITION

Units are non-operating.

Drop height : 1.5 m

Drop sequence : 6 faces and 4 corners (each drop was performed 3 times, total of 30 drops)

Note : Due to sample volume being small and thin, the sequencing is the setup direction for each drop



Drop sequence	Drop surface	Drop sequence	Drop surface
1	Corner 1	6	Right face
2	Corner 2	7	Front face
3	Corner 3	8	Rear face
4	Corner 4	9	Top face
5	Left face	10	Bottom face

## 2.5 SUMMARY OF TEST

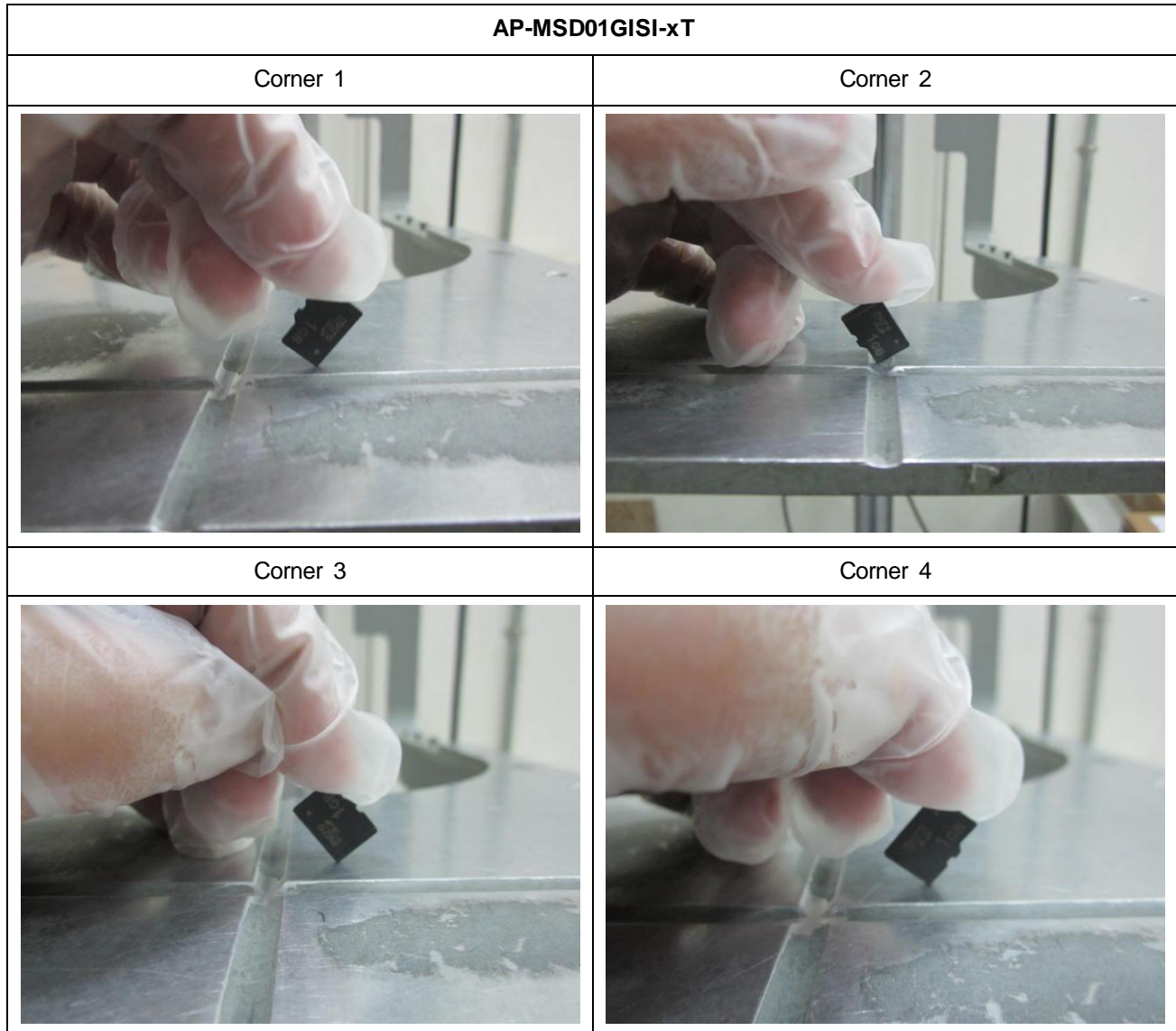
After testing, visual inspection showed no physical defect on unit.

The function test will be performed by Aptos Technology, without the 3rd party lab (IST) person participation.

To follow customer's requirement, attached functional test result as below:

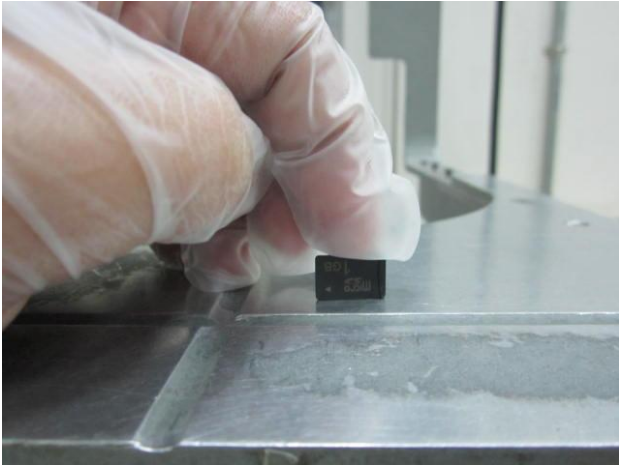
Inspection item	Functional test result
AP-MSD01GISI-xT and AP-MSD02GISI-xT	Pass

**Attachment 1 : Photo of free fall drop test setup**



**AP-MSD01GISI-xT**

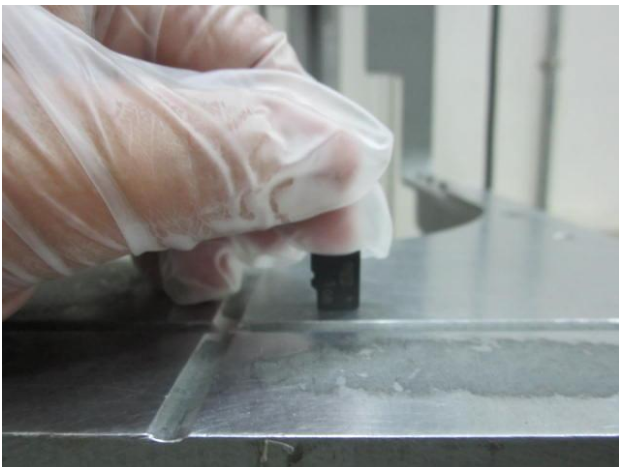
Left



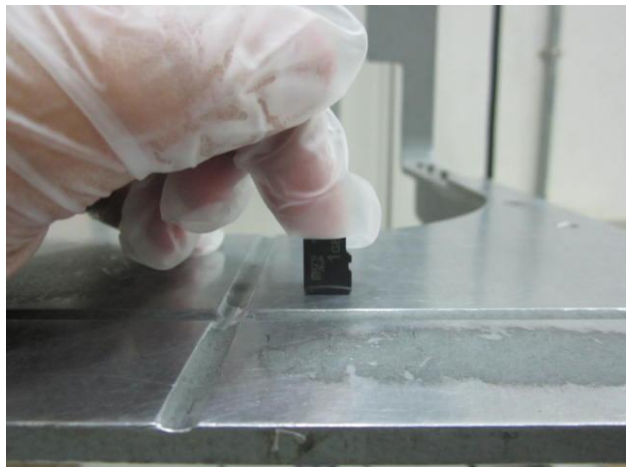
Right



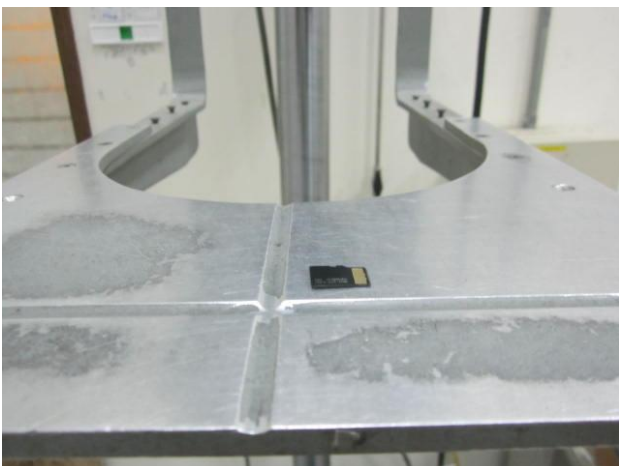
Front



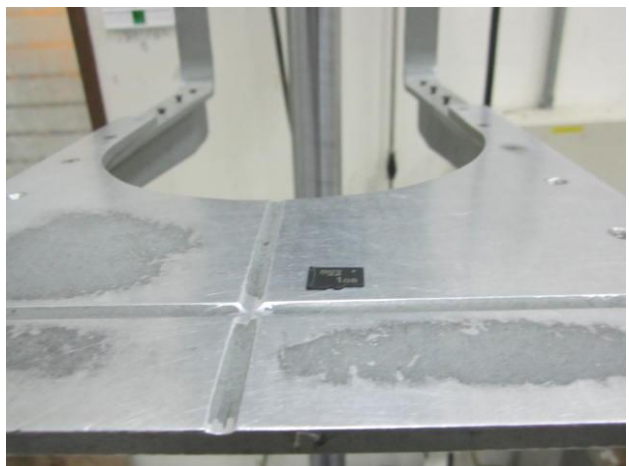
Rear



Top

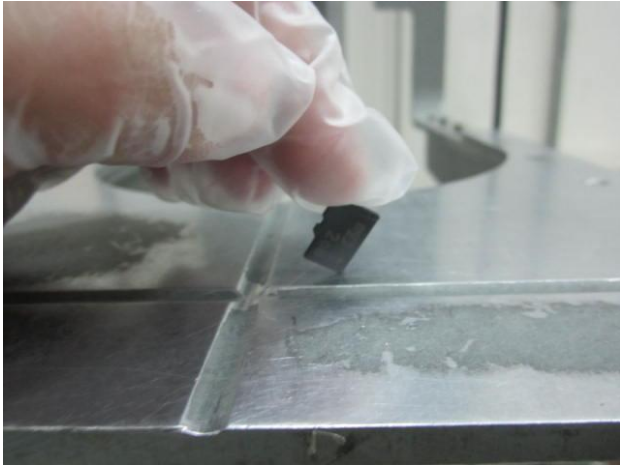


Bottom

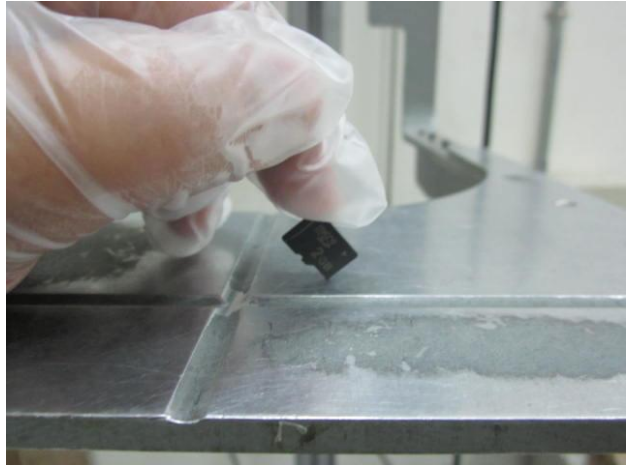


**AP-MSD02GISI-xT**

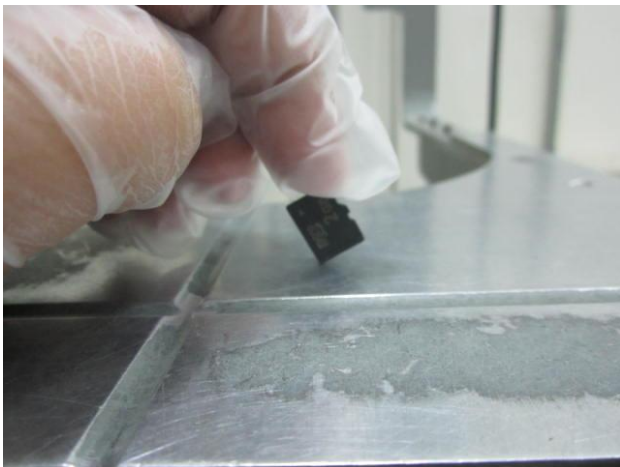
Corner 1



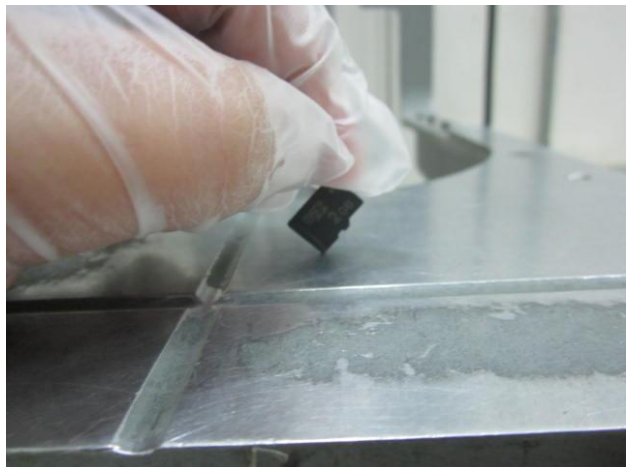
Corner 2



Corner 3

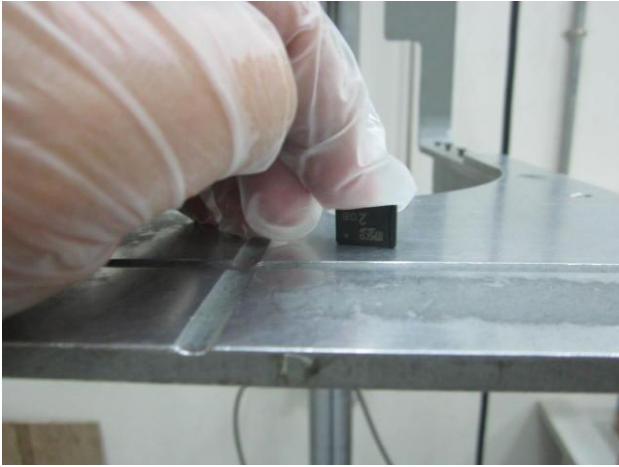


Corner 4

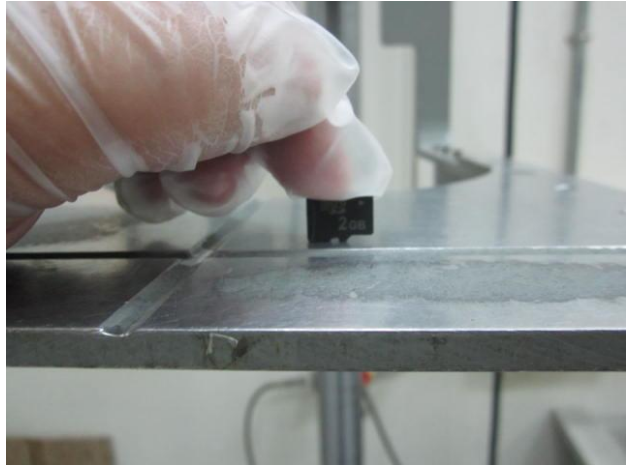


**AP-MSD02GISI-xT**

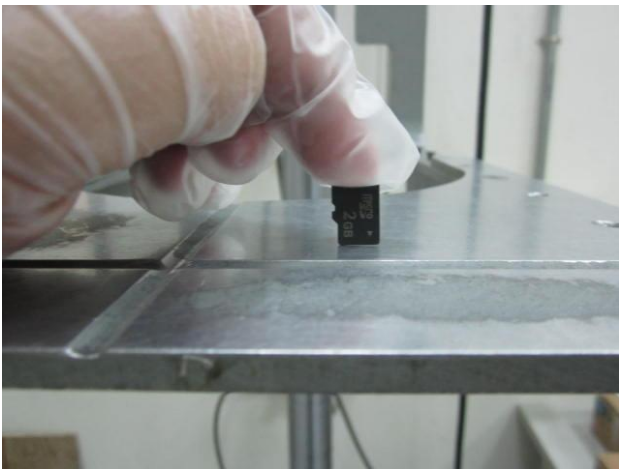
Left



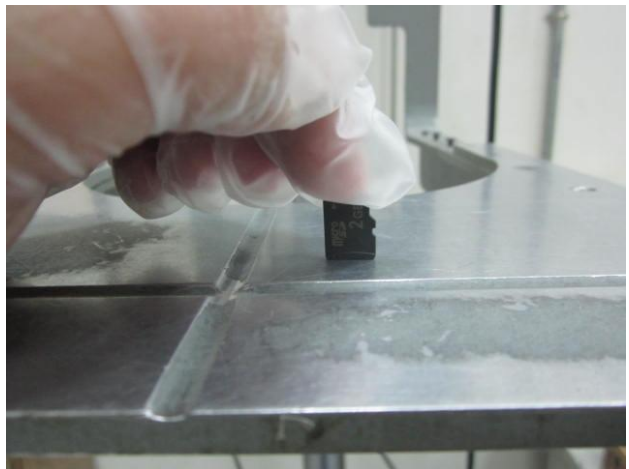
Right



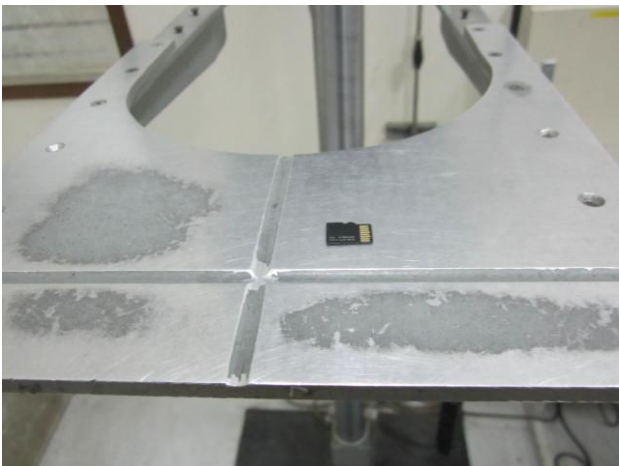
Front



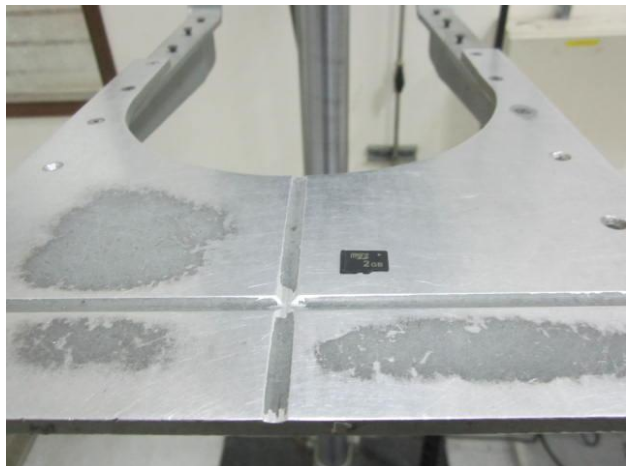
Rear



Top



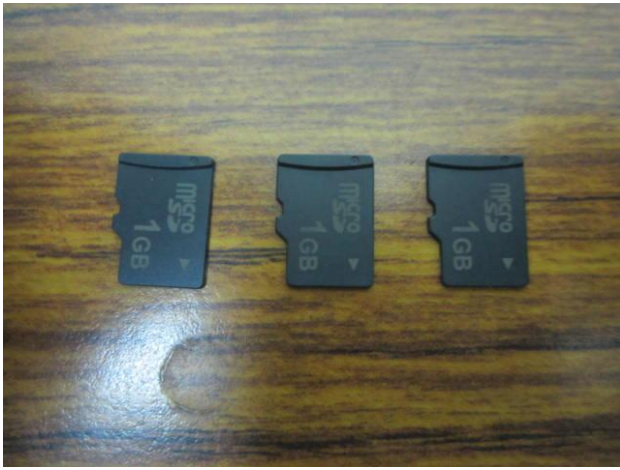
Bottom



## Attachment 2 : Photo of unit before and after free fall drop test

### Appearance was normal (AP-MSD01GISI-xT)

Before testing

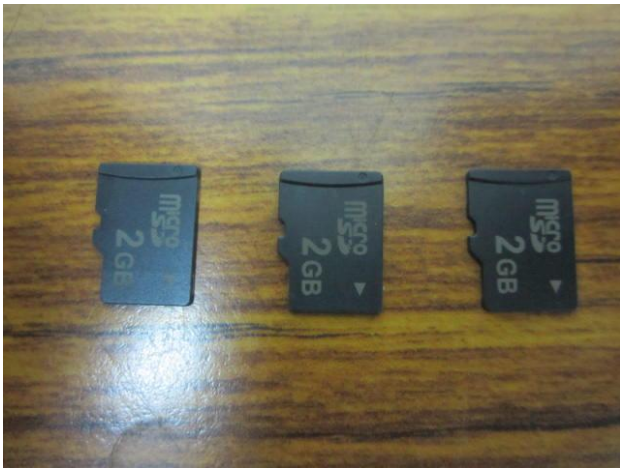


After testing



**Appearance was normal (AP-MSD02GISI-xT)**

Before testing



After testing

