

## TEST REPORT

Report No.: HC30204/2020

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Date: April 28, 2020

VECOW CO., LTD.

3F., NO.10, JIANKANG RD., ZHONGHE DIST.,

NEW TAIPEI CITY, TAIWAN

The following merchandise was submitted and identified by the vendor as:

Product Description: Multi-touch panel pc  
Style/ Item No.: MTC-7000/ No.1  
Quantity: Total 1 set  
Testing Period: Apr. 10, 2020 to Apr. 17, 2020

We have tested the submitted sample(s) as requested and the following results were obtained:

Test Required: (According to client's test specification, please see following sheets in detail.)

1. High Temperature Test
2. Low Temperature Test
3. Random Vibration Test
4. Mechanical Shock Test

Test Results : -PLEASE SEE ATTACHED SHEETS-

Signed for and on behalf of  
SGS TAIWAN Ltd.



Allen Wang  
Asst. Supervisor

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## 1. High Temperature Test:

### Test Equipment:

Name	Brand	Model	Serial No.
Programmable Temperature and Humidity Chamber	GIANT FORCE	GTH-1000-60-CP-AR-H	MAA1904-002

### Lab Environmental Conditions:

Ambient temperature:  $(25 \pm 3) \text{ }^\circ\text{C}$

Ambient humidity:  $(55 \pm 20) \text{ \% RH}$

### Test Location:

No. 31, Wu Chyuan Road, New Taipei Industrial Park, WuKu District,  
New Taipei City, Taiwan

### Test Method/ Specification:

Sample condition: Operating (execute " Burn-In Test ")

Test Temperature: 55 °C

Test Humidity: 95 % RH

Duration: 16 hours

- Examine the appearance of specimen(s) by visual check and perform functional check during this test.
- Functional check: Turn on the power of specimen then execute test program "Burn-In Test" while performing functional check.

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Specimen:

Style/Item No.: MTC-7000/ No.1

Quantity: Total 1 set

Test Result:

<b>Check Item</b>	<b>Appearance check (Visual check)</b>	<b>Functional check</b>
<b>Style/ Item No.</b>		
<b>MTC-7000/ No.1</b>	No visible damage	Normal

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## 2. Low Temperature Test:

### Test Equipment:

Name	Brand	Model	Serial No.
Programmable Temperature and Humidity Chamber	GIANT FORCE	GTH-1000-60-CP-AR-H	MAA1904-002

### Lab Environmental Conditions:

Ambient temperature:  $(25 \pm 3) ^\circ\text{C}$

Ambient humidity:  $(55 \pm 20) \% \text{RH}$

Test Location: No. 31, Wu Chyuan Road, New Taipei Industrial Park, WuKu District, New Taipei City, Taiwan

### Test Method/ Specification:

Sample condition: Operating (execute " Burn-In Test ")

Test Temperature: -5  $^\circ\text{C}$

Duration: 16 hours

- Examine the appearance of specimen(s) by visual check and perform functional check during this test.
- Functional check: Turn on the power of specimen then execute test program "Burn-In Test" while performing functional check.

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**Specimen:**

Style/Item No.: MTC-7000/ No.1

Quantity: Total 1 set

**Test Result:**

Check Item Style/ Item No.	Appearance check (Visual check)	Functional check
MTC-7000/ No.1	No visible damage	Normal

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### 3. Random Vibration Test:

#### Test Equipment:

Name	Brand	Model	Serial No.
Vibration Tester	UNHOLTZ-DICKIE	SAI60-H560BAC/2/ST	474
Controller	Dactron	LASER	7110357
Control Accelerometer	PCB	353B34	LW213529
Vibration Tester	King Design	EM-5000F2K-75N600	WR109237101
Controller	Crystal	spider	1001664
Control Accelerometer	WR	793-6	A4632

#### Lab Environmental Conditions:

Ambient temperature:  $(25 \pm 3) ^\circ\text{C}$

Ambient humidity:  $(55 \pm 20) \% \text{RH}$

Test Location: No. 31, Wu Chyuan Road, New Taipei Industrial Park, WuKu District, New Taipei City, Taiwan

#### Test Method/ Specification:

Sample condition: Operating (execute " Burn-In Test ")

Wave form: Random

Frequency: (5 ~ 500) Hz

Frequency (Hz)	Left Slope (dB/ Oct.)	PSD ( $\text{g}^2/\text{Hz}$ )	Right Slope (dB/ Oct.)
5	—	0.002	0
500	0	0.002	—

⇨ equivalent to 1.0 grms

Direction: X, Y, Z axes (see photo 5 ~ 7)

Duration: 30 minutes/ axis

- Examine the appearance of specimen(s) by visual check and perform functional check during this test.
- Functional check: Turn on the power of specimen then execute test program "Burn-In Test" while performing functional check.

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**Specimen:**

Style/Item No.: MTC-7000/ No.1

Quantity: Total 1 set

**Test Result:**

<div style="text-align: center;"><b>Check Item</b></div> <div style="text-align: left;"><b>Style/ Item No.</b></div>	<div style="text-align: center;"><b>Appearance check (Visual check)</b></div>	<div style="text-align: center;"><b>Functional check</b></div>
<div style="text-align: center;"><b>MTC-7000/ No.1</b></div>	<div style="text-align: center;">No visible damage</div>	<div style="text-align: center;">Normal</div>

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## 4. Mechanical Shock Test:

### Test Equipment:

Name	Brand	Model	Serial No.
Shock Test System	LANSMONT	95-115D	M17656
Data Acquisition & Analysis System	LANSMONT	TP4 8A-CH SML 1115-001	1115-001
ICP Accelerometer	PCB	353M288	196437

### Lab Environmental Conditions:

Ambient temperature:  $(25 \pm 3) ^\circ\text{C}$

Ambient humidity:  $(55 \pm 20) \% \text{RH}$

### Test Location:

No. 33, Wu Chyuan Road, New Taipei Industrial Park, WuKu District,  
New Taipei City, Taiwan

### Test Method/ Specification:

Sample condition: Operating (execute " Burn-In Test ")  
Pulse shape: Half-Sine  
Acceleration: 20 g  
Pulse duration: 11 ms  
Shock direction: 6 faces ( $\pm X$ ,  $\pm Y$ ,  $\pm Z$  axes, see photo 8 ~ 13)  
No. of shock: 3 shocks/ axis (total 18 shocks)

- Examine the appearance of specimen(s) by visual check and perform functional check during this test.
- Functional check: Turn on the power of specimen then execute test program "Burn-In Test" while performing functional check.

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**Specimen:**

Style/Item No.: MTC-7000/ No.1

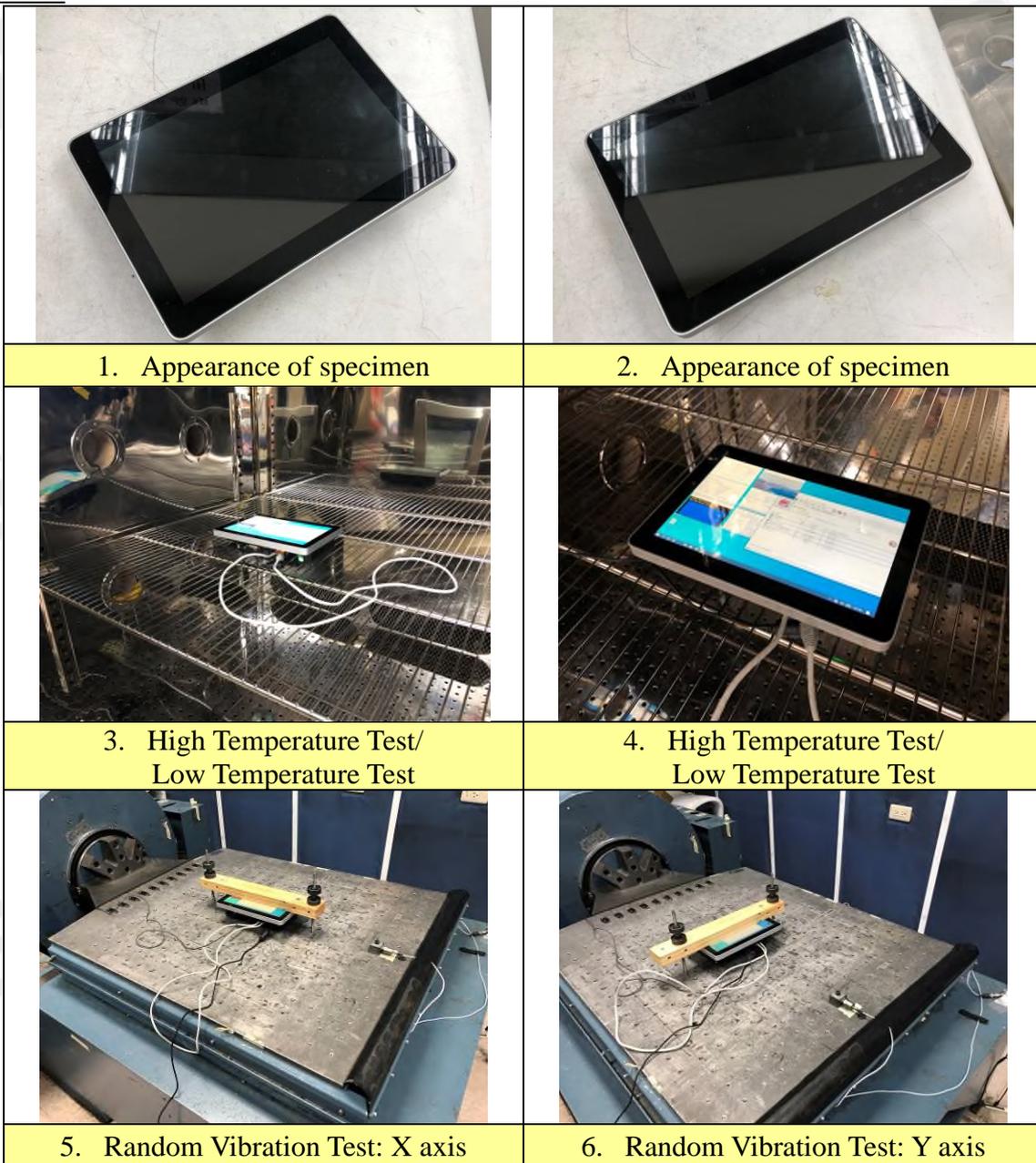
Quantity: Total 1 set

**Test Result:**

<b>Check Item</b>	<b>Appearance check (Visual check)</b>	<b>Functional check</b>
<b>Style/ Item No.</b>		
<b>MTC-7000/ No.1</b>	No visible damage	Normal

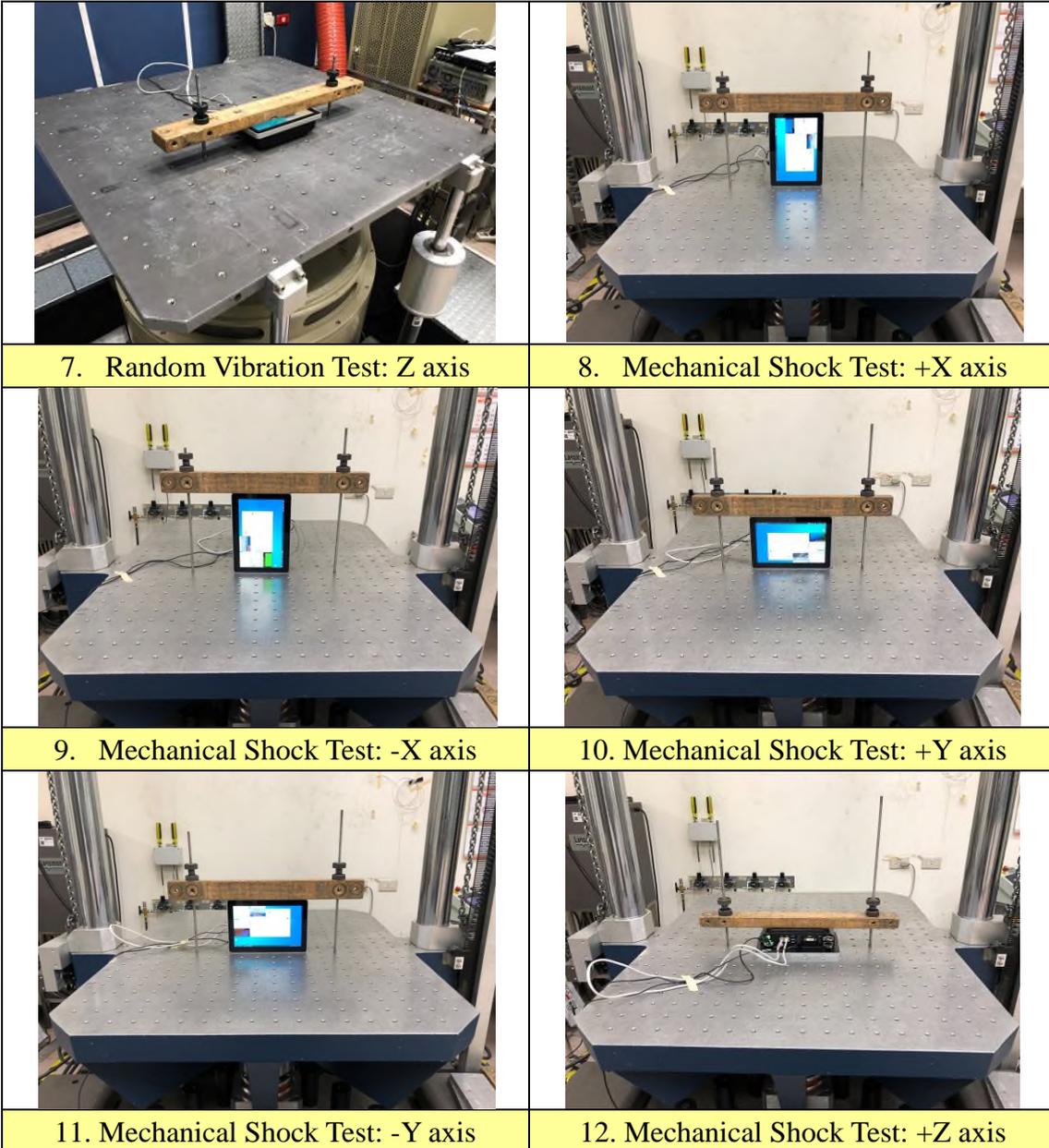
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Test Photos:



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Test Photos--Continued:



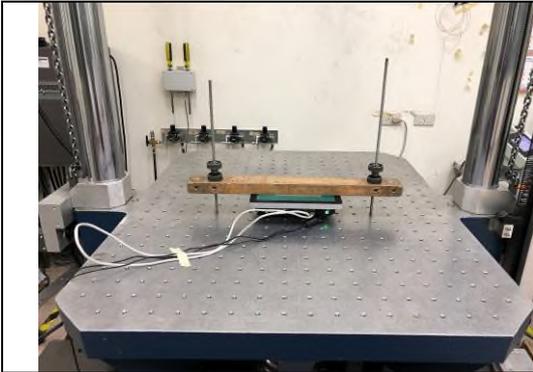
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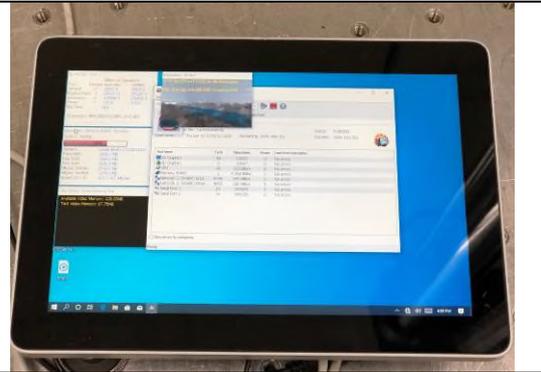
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### Test Photos--Continued:



13. Mechanical Shock Test: -Z axis



14. Functional check

— — — The End of Test Report — — —

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