

TEST REPORT

Report No.: HC30119A/2022
Page: 1 of 12
Date: April 11, 2022

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: Ultra-Compact Fanless Embedded System
Style/ Item No.: SPC-6000/ No.1
Quantity: Total 1 piece
Testing Period: Mar. 18, 2022 to Mar. 29, 2022

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. Vibration Test
4. Mechanical Shock Test

Test Results: - PLEASE SEE ATTACHED SHEETS -

*HC30119/2022, dated on March 31, 2022, is hereby canceled and replaced by HC30119A/2022.

Signed for and on behalf of
SGS TAIWAN Ltd.



Alex Chen
Asst. Supervisor

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1. High Temperature Test:

Test Equipment:

Name	Brand	Model	Serial No.
Programmable Temperature & Humidity Chamber	KSON	THS-D6TS-150+LN2	A0558

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:

Test Method: IEC 60068-2-2, Edition 5.0: 2007 and client's request

Test Temperature: 70 °C

Test Humidity: 95 % RH

Test duration: 16 hours

- Sample condition: Operating.
- Examine the appearance of specimen by visual check and perform functional check after this test.
- Functional check: Connect the specimen with rated power and then examine whether the test program "BurnIn test" could be work normally or not.

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Specimen:

Style/ Item No.: SPC-6000/ No.1

Quantity: Total 1 piece

Test Result:

Check Item Style/ Item No.	Appearance Check (Visual check)	Functional check
SPC-6000/ No.1	No visible damage	Normal

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2. Low Temperature Test:

Test Equipment:

Name	Brand	Model	Serial No.
Programmable Temperature & Humidity Chamber	KSON	THS-D6TS-150+LN2	A0558

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:

Test Method: IEC 60068-2-1, Edition 6.0: 2007 and client's request

Test Temperature: -40 °C

Test duration: 16 hours

- Sample condition: Operating.
- Examine the appearance of specimen by visual check and perform functional check after this test.
- Functional check: Connect the specimen with rated power and then examine whether the test program "BurnIn test" could be work normally or not.

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Specimen:

Style/ Item No.: SPC-6000/ No.1

Quantity: Total 1 piece

Test Result:

Check Item Style/ Item No.	Appearance Check (Visual check)	Functional check
SPC-6000/ No.1	No visible damage	Normal

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3. Vibration Test:

Test Equipment:

Name	Brand	Model	Serial No.
Vibration Test System	IMV	J260/SA7M	14101899
Controller	IMV	K2+	14101899
Control Accelerometer	PCB	353B34	LW228240

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:

Test Method: IEC 60068-2-64 Edition 2.1: 2019 and client's request

Wave form: Random

Frequency: (5 ~ 500) Hz

Frequency (Hz)	Left Slope (dB/Oct.)	PSD (g^2/Hz)	Right Slope (dB/Oct.)
5	-	0.05	0
500	0	0.05	-

⇒ equivalent to 5.0 g_{rms}

Direction:

X, Y, Z axes (as show in photo 5 ~ 7)

Test duration:

30 minutes/ axis

- Sample condition: Operating.
- Examine the appearance of specimen by visual check and perform functional check after this test.
- Functional check: Connect the specimen with rated power and then examine whether the test program "BurnIn test" could be work normally or not.

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Specimen:

Style/ Item No.: SPC-6000/ No.1

Quantity: Total 1 piece

Test Result:

Check Item Style/ Item No.	Appearance Check (Visual check)	Functional check
SPC-6000/ No.1	No visible damage	Normal

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4. Mechanical Shock Test :

Test Equipment:

Name	Brand	Model	Serial No.
Vibration Tester	King Design	EM-5000F2K-75N600	WR109237101
Controller	Crystal	spider	1001664
Control Accelerometer	PCB	353B34	35618

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:

Test Method: IEC 60068-2-27 Edition 4.0: 2008 and client's request

Pulse shape: Half-sine

Acceleration: 50 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)

- Sample condition: Non-Operating
- Examine the appearance of specimen by visual check and perform functional check after this test.
- Functional check: Connect the specimen with rated power and then examine whether the test program "BurnIn test" could be work normally or not.

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Specimen:

Style/ Item No.: SPC-6000/ No.1





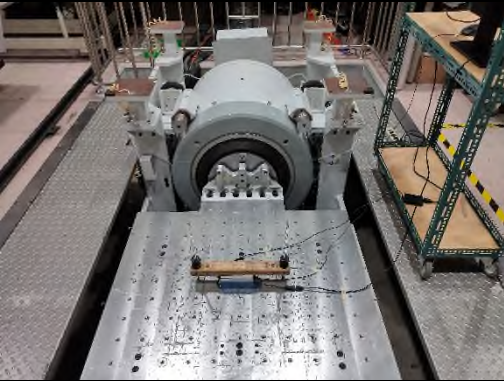
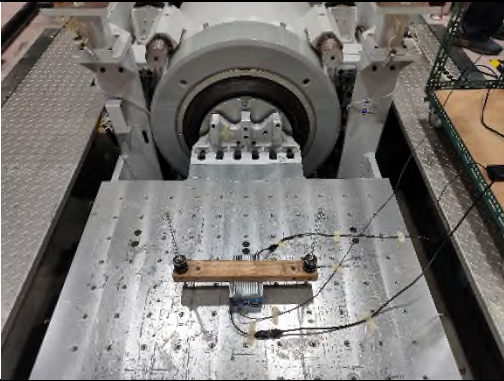
Quantity: Total 1 piece

Test Result:

Check Item Style/ Item No.	Appearance Check (Visual check)	Functional check
SPC-6000/ No.1	No visible damage	Normal

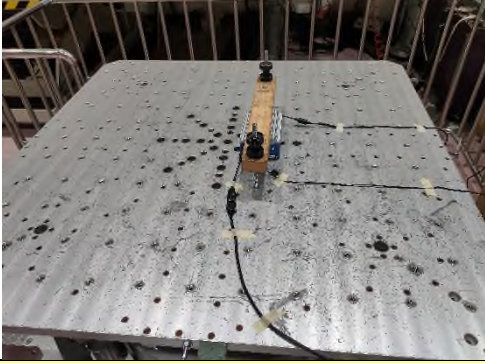




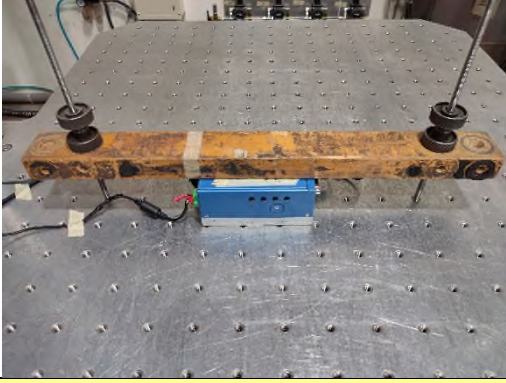
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Test Photos:

	
<p>1. Appearance of specimen</p>	<p>2. Appearance of specimen</p>
	
<p>3. High/ Low Temperature Test</p>	<p>4. High/ Low Temperature Test</p>
	
<p>5. Vibration Test (X axis)</p>	<p>6. Vibration Test (Y axis)</p>

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Test Photos--Continued:

	
<p>7. Vibration Test (Z axis)</p>	<p>8. Mechanical Shock Test (+X axis)</p>
	
<p>9. Mechanical Shock Test (-X axis)</p>	<p>10. Mechanical Shock Test (+Y axis)</p>
	
<p>11. Mechanical Shock Test (-Y axis)</p>	<p>12. Mechanical Shock Test (+Z axis)</p>

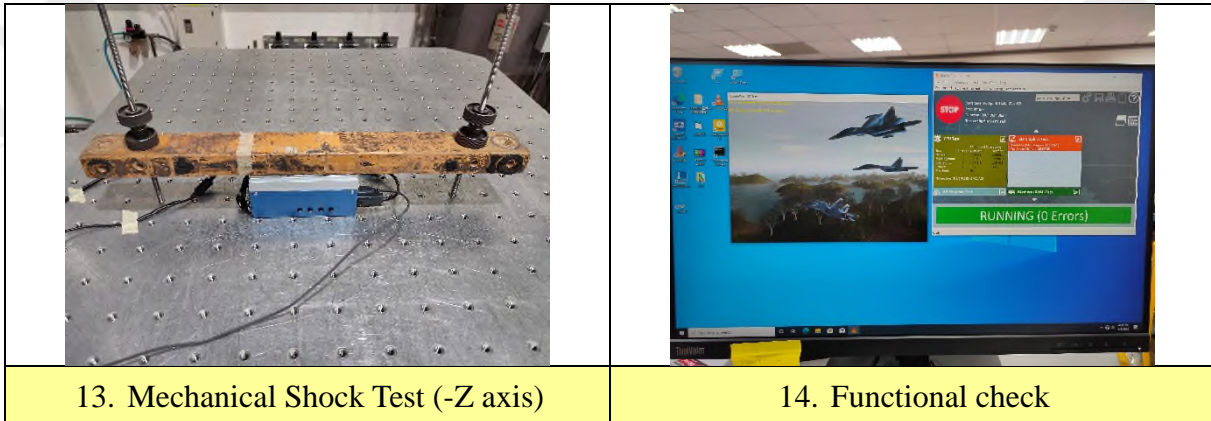
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Test Photos--Continued:



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