

TEST REPORT

Report No.: HC80078/2020
Page: 1 of 14
Date: September 9, 2020

VECOW CO., LTD.
3F., NO.10, JIANKANG RD., ZHONGHE DIST.,
NEW TAIPEI CITY 23586, TAIWAN

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

Product Description: SPC-5000 Series
Style/ Item No.: SPC-5100/ No.1; SPC-5200/ No.1
Quantity: Total 2 sets
Testing Period: Aug. 17, 2020 to Sep. 8, 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 --I
2. High Temperature Test --II
3. Low Temperature Test
4. Random Vibration Test
5. 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 --I:

Test Equipment:

Name	Brand	Model	Serial No.
Programmable Temperature & Humidity Chamber	GIANT FORCE	GTH-225-40-CP-AR	MAA1807-009

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 "BurnIn")

Test Temperature: 85 °C

Test humidity: 95 % RH

Test Duration: 16 hours

- Examine the appearance of specimen by visual check and perform functional check after this test.
- Functional check: Connect the specimen with rated power, then execute test program "Burn in test" while performing functional check.

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Specimen:

Style/Item No.: SPC-5100/ No.1

Quantity: Total 1 set

Test Result:

Check Item Style/ Item No.	Appearance check (Visual check)	Functional check
SPC-5100/ No.1	No visible damage	Normal

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2. High Temperature Test --II:

Test Equipment:

Name	Brand	Model	Serial No.
Programmable Temperature & Humidity Chamber	GIANT FORCE	GTH-225-40-CP-AR	MAA1807-009

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 "BurnIn")

Test Temperature: 70 °C

Test humidity: 95 % RH

Test Duration: 16 hours

- Examine the appearance of specimen by visual check and perform functional check after this test.
- Functional check: Connect the specimen with rated power, then execute test program "Burn in test" while performing functional check.

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Specimen:

Style/Item No.: SPC-5200/ No.1

Quantity: Total 1 set

Test Result:

Check Item Style/ Item No.	Appearance check (Visual check)	Functional check
SPC-5200/ No.1	No visible damage	Normal

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3. Low Temperature Test:

Test Equipment:

Name	Brand	Model	Serial No.
Programmable Temperature & Humidity Chamber	GIANT FORCE	GTH-225-40-CP-AR	MAA1807-009

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 "BurnIn")

Test Temperature: -40 °C

Test Duration: 16 hours

- Examine the appearance of specimen by visual check and perform functional check after this test.
- Functional check: Connect the specimen with rated power, then execute test program "Burn in test" while performing functional check.

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Specimen:

Style/Item No.: SPC-5100/ No.1; SPC-5200/ No.1

Quantity: Total 2 sets

Test Result:

Check Item Style/ Item No.	Appearance check (Visual check)	Functional check
SPC-5100/ No.1	No visible damage	Normal
SPC-5200/ No.1	No visible damage	Normal

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4. 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

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 60068-2-64, Edition 2.0: 2008

Sample condition: Operating (execute "BurnIn Test")

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 (see photo 8 ~ 11)

Duration: 30 minutes/ axis

- Examine the appearance of specimen by visual check and perform functional check after this test.
- Functional check: Connect the specimen with rated power, then execute test program "Burn in test" while performing functional check.

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Specimen:

Style/Item No.: SPC-5100/ No.1; SPC-5200/ No.1

Quantity: Total 2 sets

Test Result:

Check Item Style/ Item No.	Appearance check (Visual check)	Functional check
SPC-5100/ No.1	No visible damage	Normal
SPC-5200/ No.1	No visible damage	Normal

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5. 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:

Test method: IEC 60068-2-27, Edition 4.0: 2008
 Sample condition: Operating (execute "BurnIn")
 Pulse shape: Half-sine
 Acceleration: 50 g
 Pulse duration: 11 ms
 Shock direction: 6 faces ($\pm X$, $\pm Y$, $\pm Z$ axes, see photo 12 ~ 17)
 No. of shock: 3 shocks/ axis (total 18 shocks)

- Examine the appearance of specimen by visual check and perform functional check after this test.
- Functional check: Connect the specimen with rated power, then execute test program "Burn in test" while performing functional check.

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Specimen:

Style/Item No.: SPC-5100/ No.1; SPC-5200/ No.1

Quantity: Total 2 sets

Test Result:

Check Item Style/ Item No.	Appearance check (Visual check)	Functional check
SPC-5100/ No.1	No visible damage	Normal
SPC-5200/ No.1	No visible damage	Normal

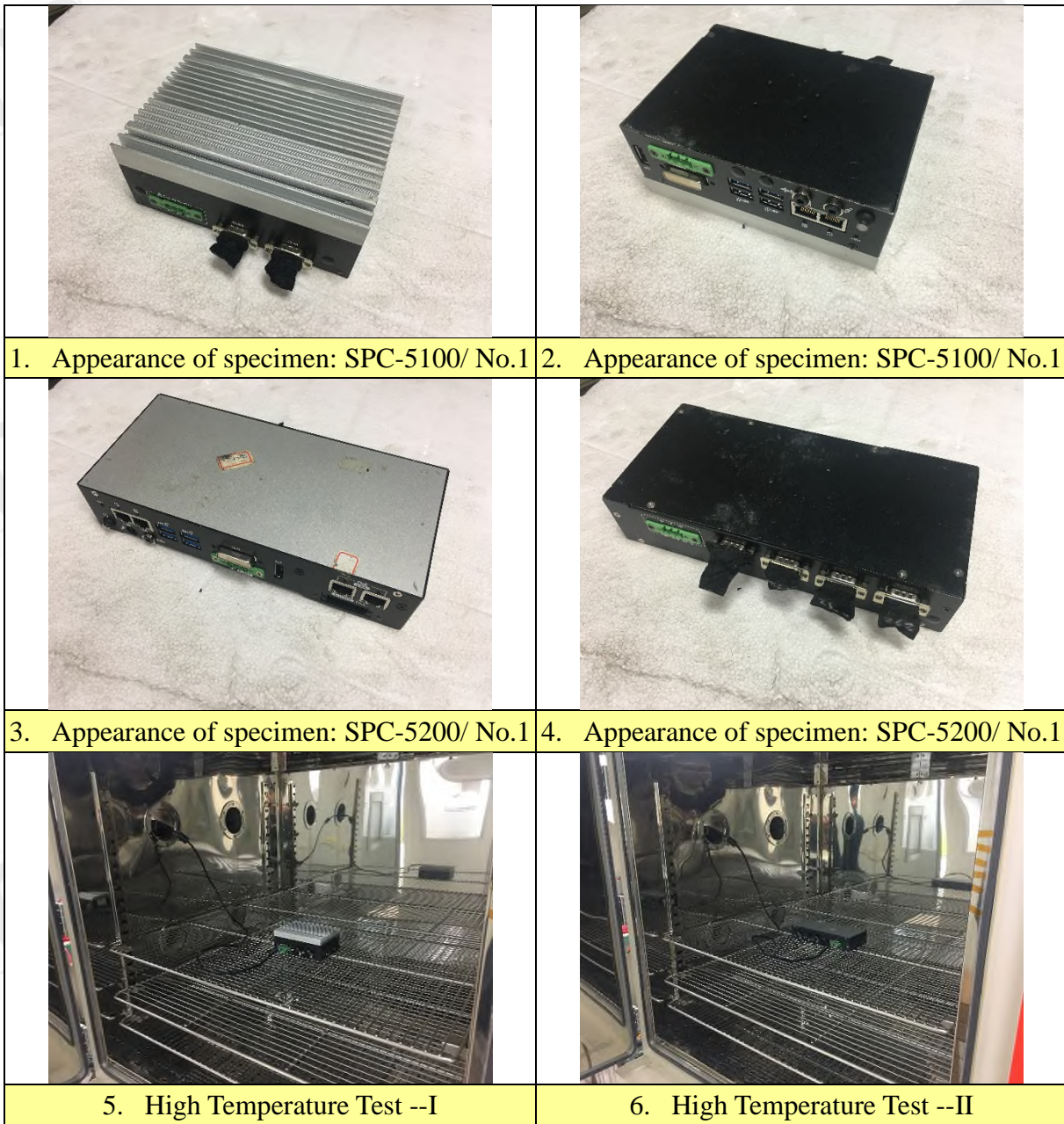
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Test Photos:



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Test Photos--Continued:



7. Low Temperature Test



8. Random Vibration Test: X axis



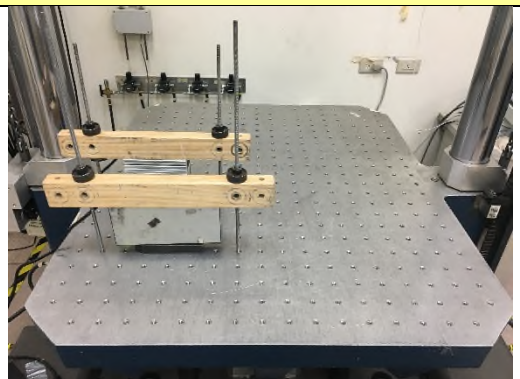
9. Random Vibration Test: Y axis



10. Random Vibration Test: Z axis



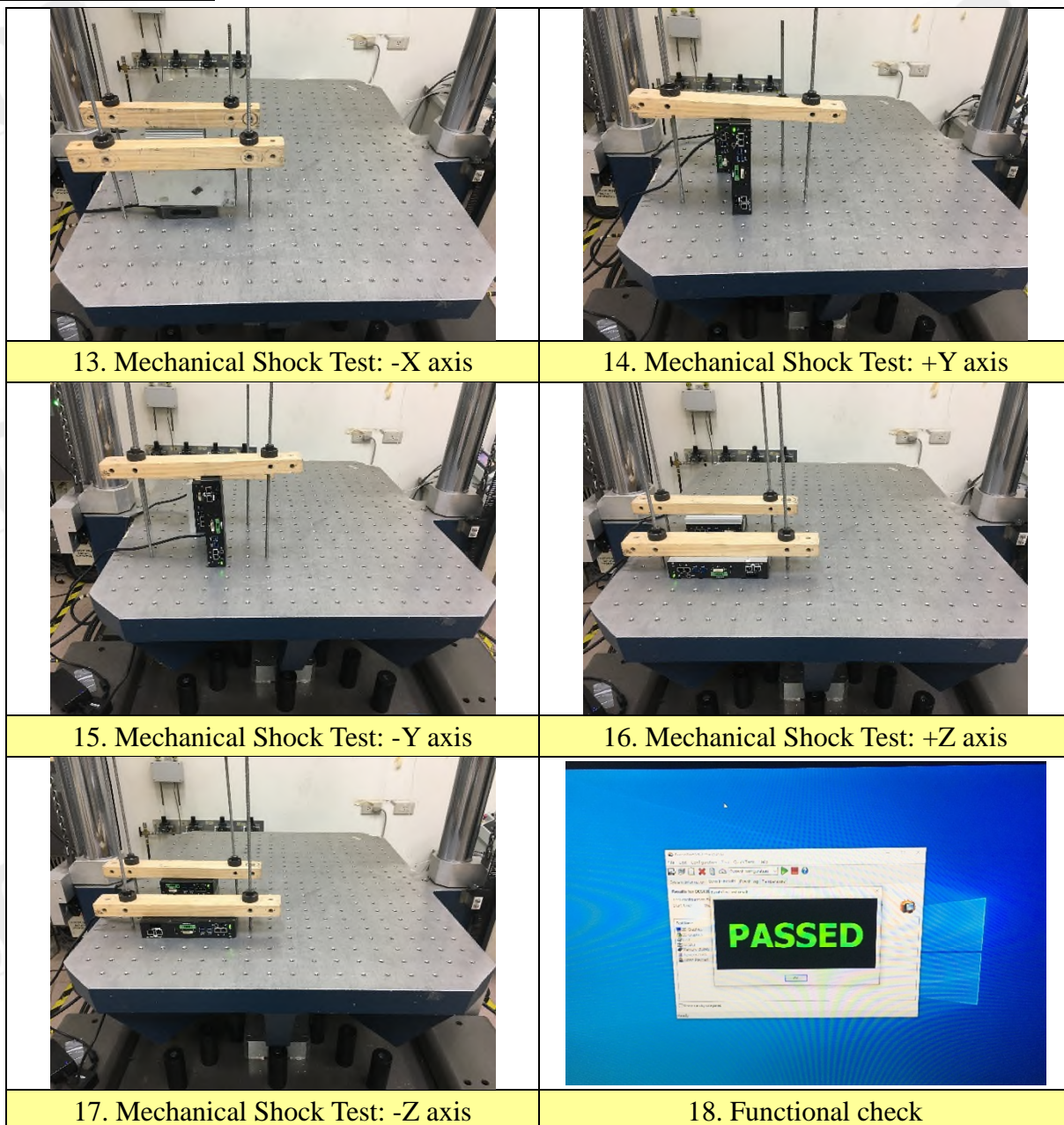
11. Random Vibration Test: Z axis



12. Mechanical Shock Test: +X axis

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Test Photos--Continued:



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