

Test Report

**IEC 60068-2-6 (Sine Vibration Test);
IEC 60068-2-27 (Shock Test);
IEC 60068-2-32 (Fall Test)**

Product : **Switching Hub**

Trade Name : Korenix

Model Number : JetNet 5012G

Prepared for

Korenix Technology Co., Ltd.

FL 2, No. 188, Bai-Ciao Rd., Shing Tien Dist., New Taipei City, Taiwan

Prepared by

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Remark:

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The test result in this report is only subjected to the test sample.

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Statement of Compliance

Applicant: Korenix Technology Co., Ltd.
FL 2, No. 188, Bai-Ciao Rd., Shing Tien Dist., New Taipei City, Taiwan

Manufacturer: Korenix Technology Co., Ltd.
FL 2, No. 188, Bai-Ciao Rd., Shing Tien Dist., New Taipei City, Taiwan

Product: Switching Hub

Model No.: JetNet 5012G

Date of Test: Jan. 07 ~ 09, 2013

Revision of Report: Rev. 02

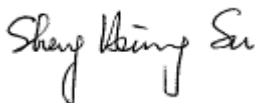

Measurement Procedures and Standards Used :

- IEC 60068-2-6
- IEC 60068-2-27
- IEC 60068-2-32

The device described above was tested by Taiway Testing Laboratory and witness by Interocean EMC Technology Corporation to determine the performance is compliance with the Environmental requirement of above standards. Data & Report were consolidated by Interocean EMC Technology Corporation. The results contained in this report are subjected to the test sample only.

Report Issued : 2013/01/18

Taiway Testing Laboratory:

Project Engineer :  Reviewed : 
Sheng Hsiung Su Wan Yi Wang

Interocean EMC Technology Corp.:

Witness Engineer :  Approved : 
Victor Chen Gimmy Tsai

1 SINE VIBRATION TEST

1.1.1 Instrument

Instrument	Manufacturer	Model	Serial No.
U-D vibration machine	N/A	TA240D-208/CSTA	N/A
Control System	VTS CONTROLLER	N/A	N/A
Control Accelerometer	Dytran	3055B2, sensitivity:99.01 mv/g.	N/A

1.1.2 Test Ambience

Temperature: $19 \pm 3^{\circ}\text{C}$

Humidity: $60\% \pm 5\%$ (RH)

1.1.3 Specimen & Model Quantity

Specimen: Switching Hub

Model: JetNet 5012G

Quantity: 1 Set.

1.1.4 Test Condition

According to IEC 60068-2-6

Frequency: 10 Hz ~ 150 Hz.

Vibration Level: Acceleration= 20 m/s^2 (2.04 g).

Sweep time: 8 min/cycle (10Hz~150Hz ~ 10Hz).

Duration time: 80 min (10 cycles) / Axis.

Test axis: X, Y, Z, 3 Axes.

1.1.5 Test Result

PASS.

1. Test configurations were shown in Fig.1 ~ Fig.3
2. The test data were shown in Fig.4 ~ Fig.6
3. Test specimen was visually inspected after test. No physical damage was noted.
4. The function of specimen was normal during and after the sine vibration test.

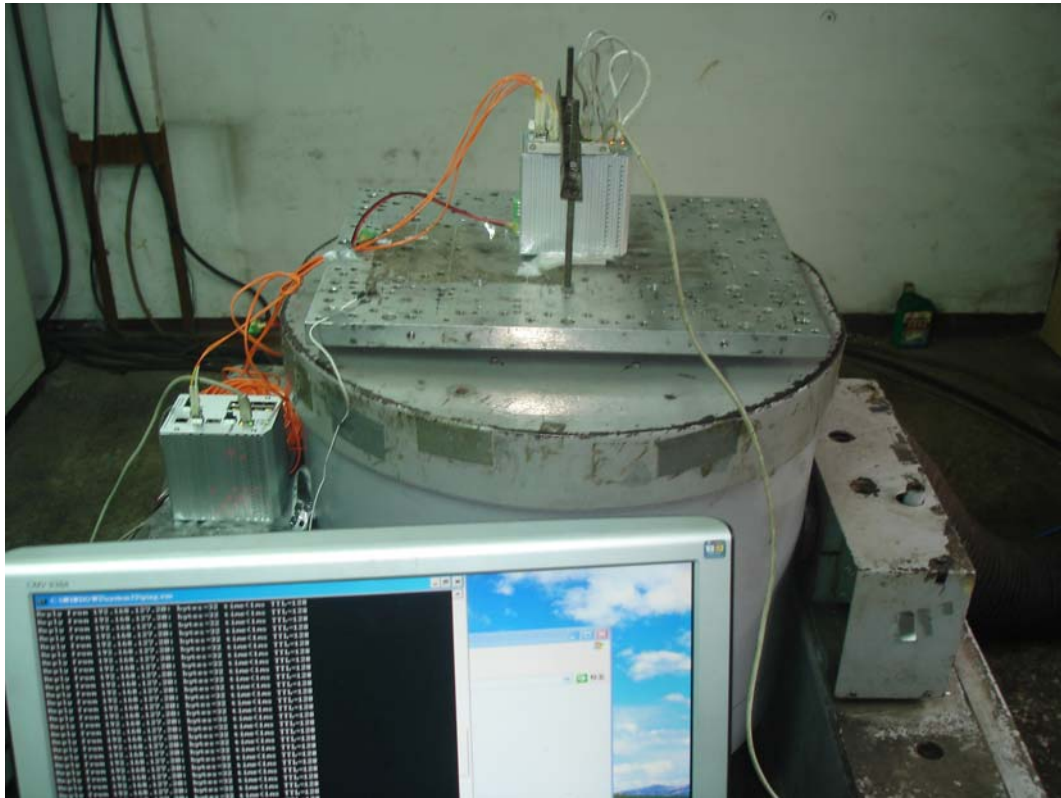


Fig. 1: Switching Hub (JetNet 5012G) Sine Vibration Test in X Axis

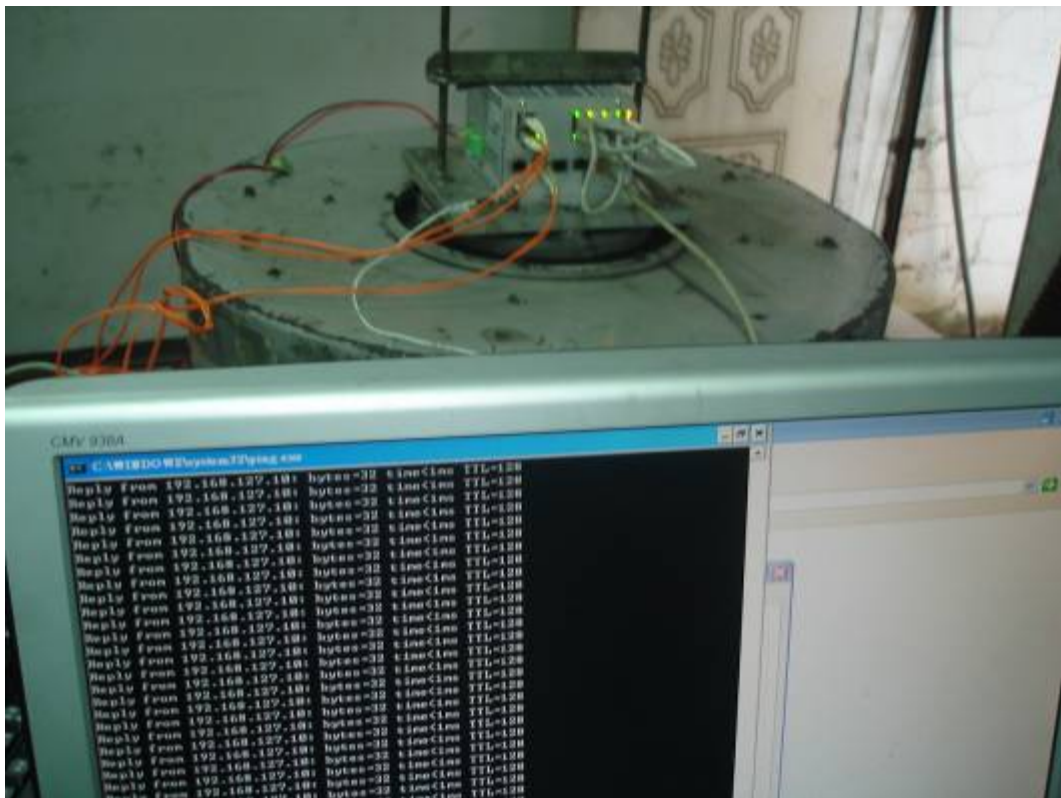


Fig. 2: Switching Hub (JetNet 5012G) Sine Vibration Test in Y Axis

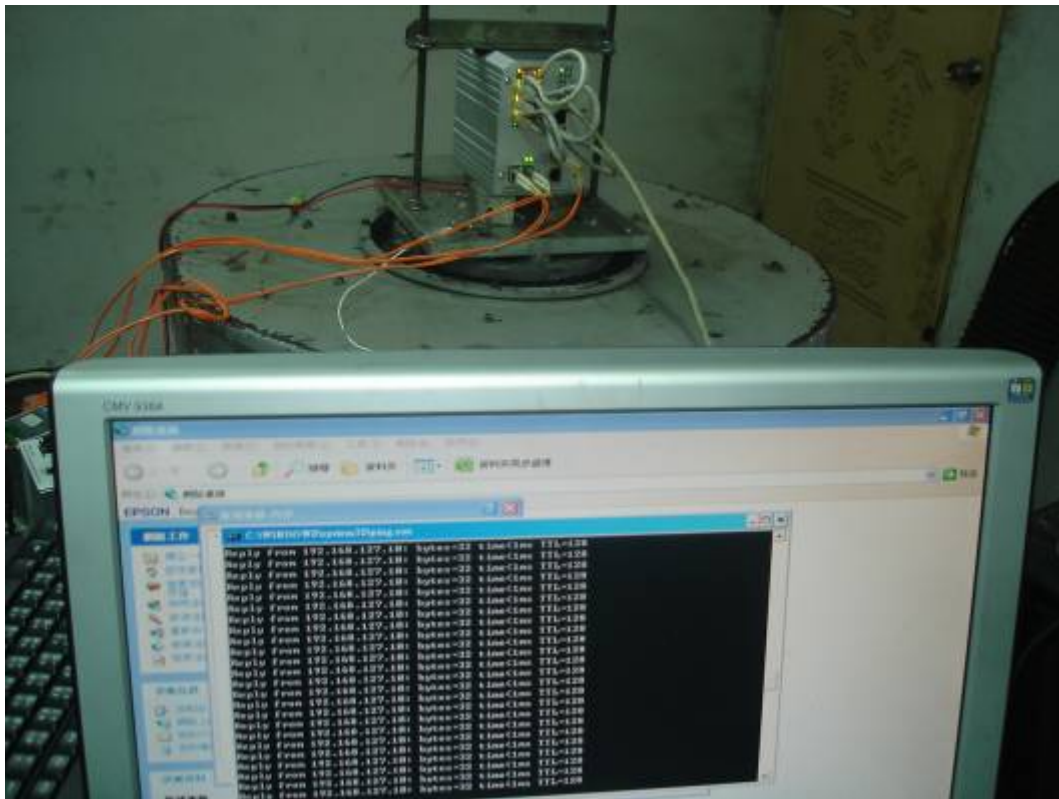
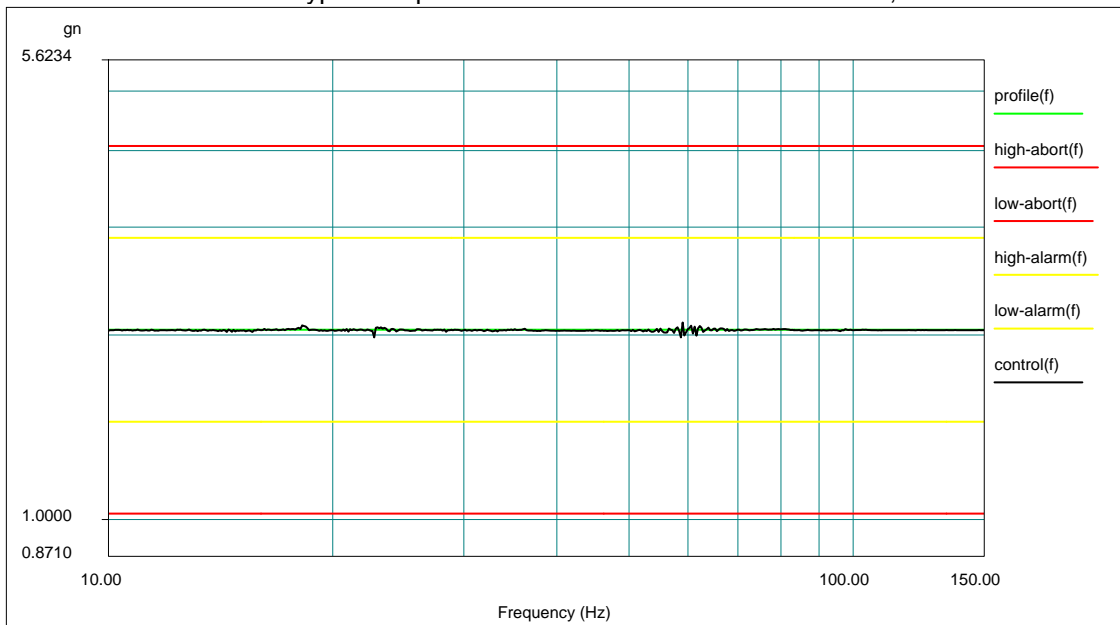


Fig. 3: Switching Hub (JetNet 5012G) Sine Vibration Test in Z Axis

Switching Hub (JetNet 5012G)

Project File Name: 10-150Hz(2.04g).prj

Profile Name: X-Axis Test Type: Swept Sine Run Folder: .\RunDefault Jan 08, 2013 09-38-01



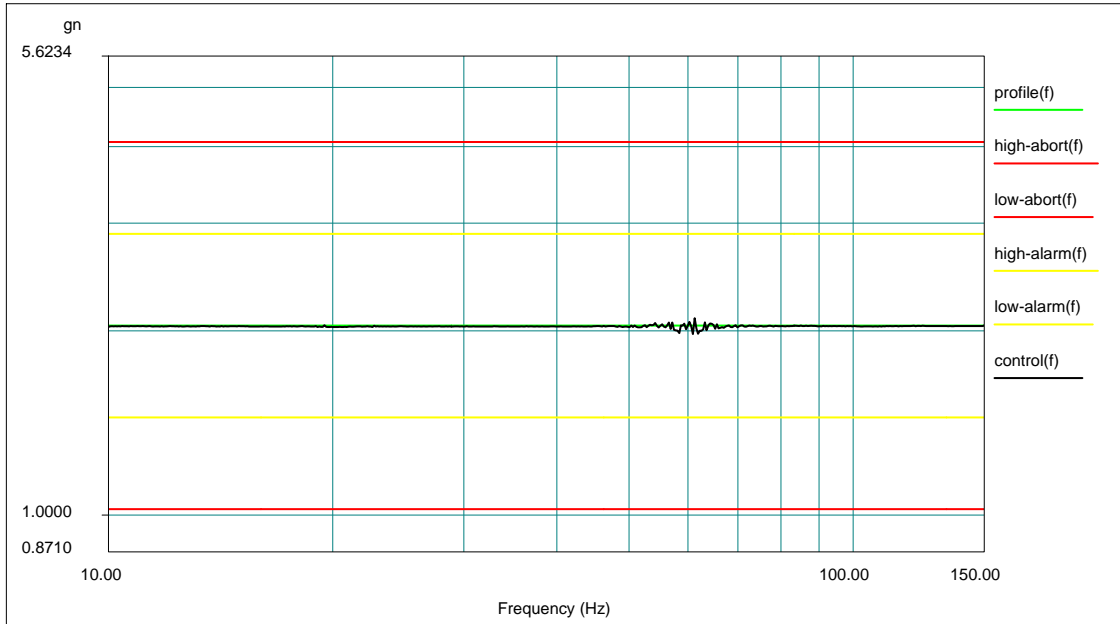
Level: 100 % Control Peak: 2.033884 gn Full Level Time: 01:20:01 Sweep Type: Logarithmic
 Frequency: 10.012 Hz Demand Peak: 2.040000 gn Time Remaining: 00:00:00
 Sweep Rate: 0.977 Oct/Min Data saved at 11:00:32 AM, Tuesday, January 08, 2013

Fig. 4: Switching Hub (JetNet 5012G) Sine Vibration Test in Z Axis

Switching Hub (JetNet 5012G)

Project File Name: 10-150Hz(2.04g).prj

Profile Name: Y-Axis Test Type: Swept Sine Run Folder: .\RunDefault Jan 07, 2013 15-41-54



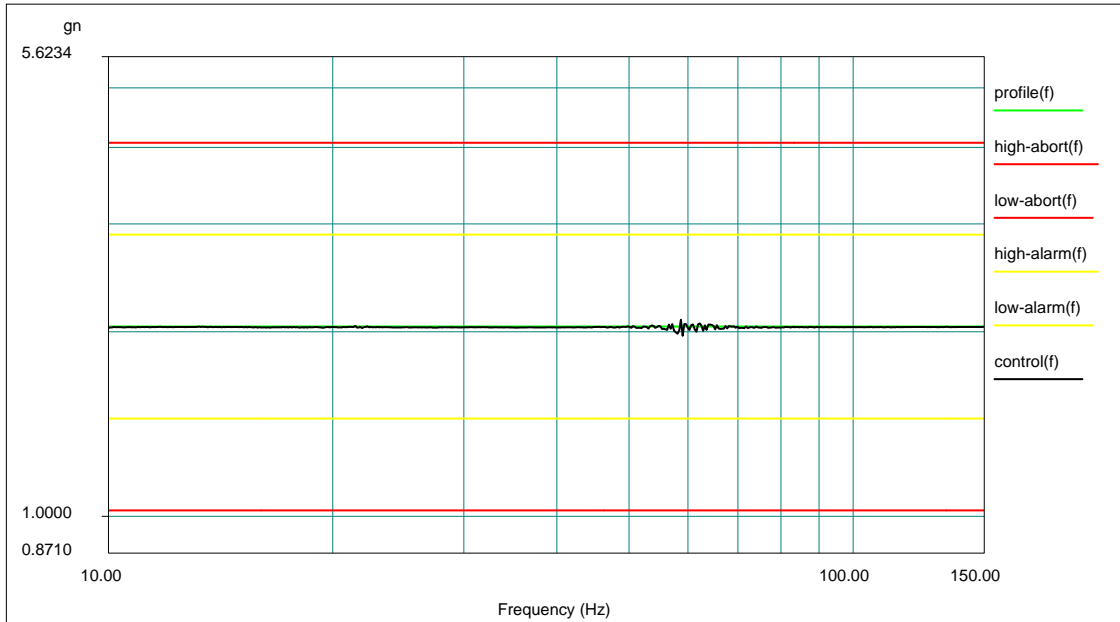
Level: 100 % Control Peak: 2.030822 gn Full Level Time: 01:20:01 Sweep Type: Logarithmic
 Frequency: 10.001 Hz Demand Peak: 2.040000 gn Time Remaining: 00:00:00
 Sweep Rate: 0.977 Oct/Min Data saved at 05:12:04 PM, Monday, January 07, 2013

Fig. 5: Switching Hub (JetNet 5012G) Sine Vibration Testing data of Y Axis

Switching Hub (JetNet 5012G)

Project File Name: 10-150Hz(2.04g).prj

Profile Name: Z-Axis Test Type: Swept Sine Run Folder: .\RunDefault Jan 07, 2013 14-01-28



Level: 100 % Control Peak: 2.030350 gn Full Level Time: 01:20:01 Sweep Type: Logarithmic
 Frequency: 10.001 Hz Demand Peak: 2.040000 gn Time Remaining: 00:00:00
 Sweep Rate: 0.977 Oct/Min Data saved at 03:34:16 PM, Monday, January 07, 2013

Fig. 6: Switching Hub (JetNet 5012G) Sine Vibration Testing data of Z Axis

2 SHOCK TEST

2.1.1 Instrument

Instrument	Manufacturer	Model	Serial No.
MRAD Pneumatic Shock Machine	N/A	NO.1616(200)P	N/A
Measurement system	AND	AD-3525 FFT ANALYZER	N/A
Measurement model	COLUMBIA	6063, sensitivity: 1.57 pc/g.	N/A

2.1.2 Test Ambience

Temperature: $19 \pm 3^{\circ}\text{C}$

Humidity: $60\% \pm 5\%$ (RH)

2.1.3 Specimen & Model Quantity

Specimen: Switching Hub

Model: JetNet 5012G

Quantity: 1 Set.

2.1.4 Test Condition

According to IEC 60068-2-27

Acceleration: 50g

Pulse duration: 11 ms (half sine pulse).

Times of shock: 3 times for each of +X, +Y, ±Z, 6 directions.

2.1.5 Test Result

PASS.

1. Test configurations were shown in Fig.7 ~ Fig.9
2. The testing data were shown in Fig.10 ~ Fig.12
3. Test specimen was visually inspected after test. No physical damage was noted.
4. The function of specimen was normal during and after the shock test.



Fig. 7: Switching Hub (JetNet 5012G) Shock Test in $\pm X$ Axis -1



Fig. 7: Switching Hub (JetNet 5012G) Shock Test in $\pm X$ Axis -2

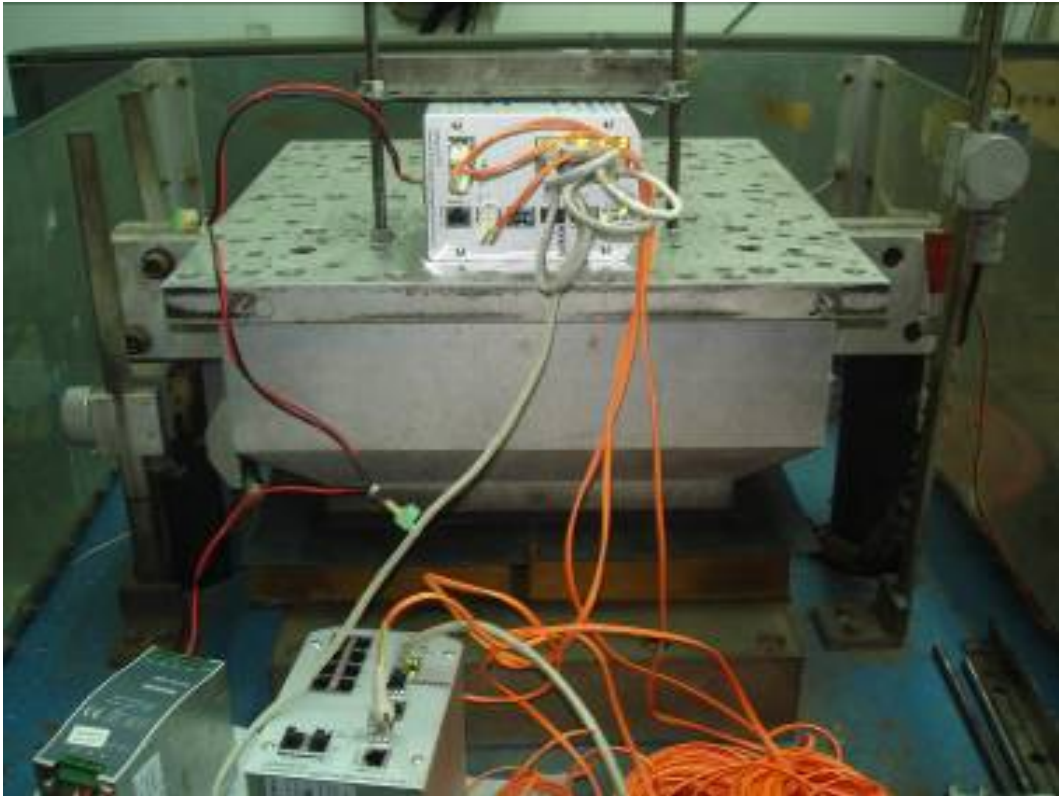


Fig. 8: Switching Hub (JetNet 5012G) Shock Test in $\pm Y$ Axis -1



Fig. 8: Switching Hub (JetNet 5012G) Shock Test in $\pm Y$ Axis -2



Fig. 9: Switching Hub (JetNet 5012G) Shock Test in $\pm Z$ Axis -1



Fig. 9: Switching Hub (JetNet 5012G) Shock Test in $\pm Z$ Axis -2

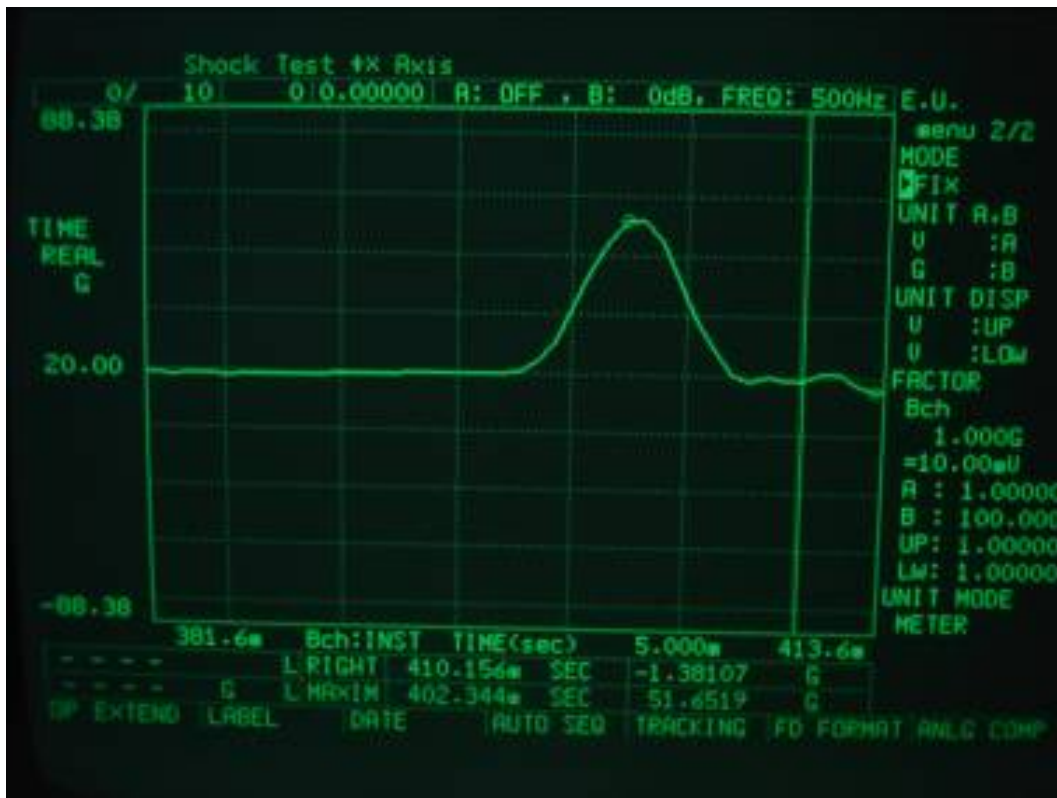


Fig. 10: Switching Hub (JetNet 5012G) Shock Testing data of ±X Axis -1

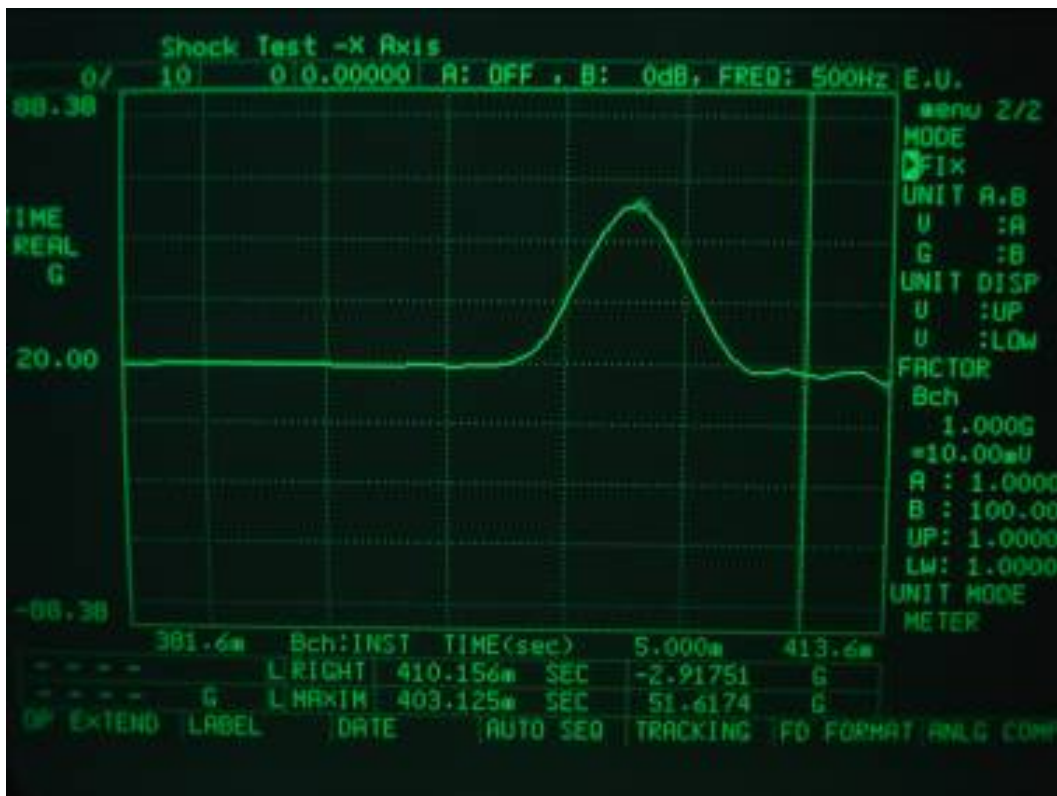


Fig. 10: Switching Hub (JetNet 5012G) Shock Testing data of ±X Axis -2

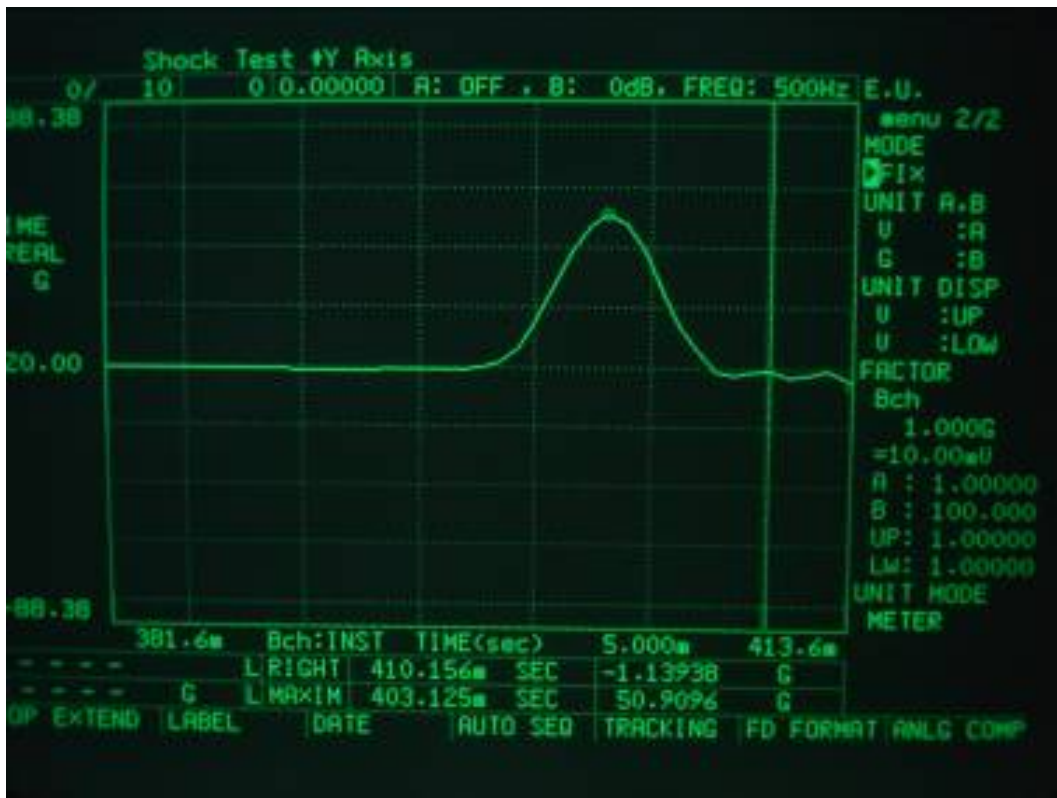


Fig. 11: Switching Hub (JetNet 5012G) Shock Testing data of ±Y Axis -1

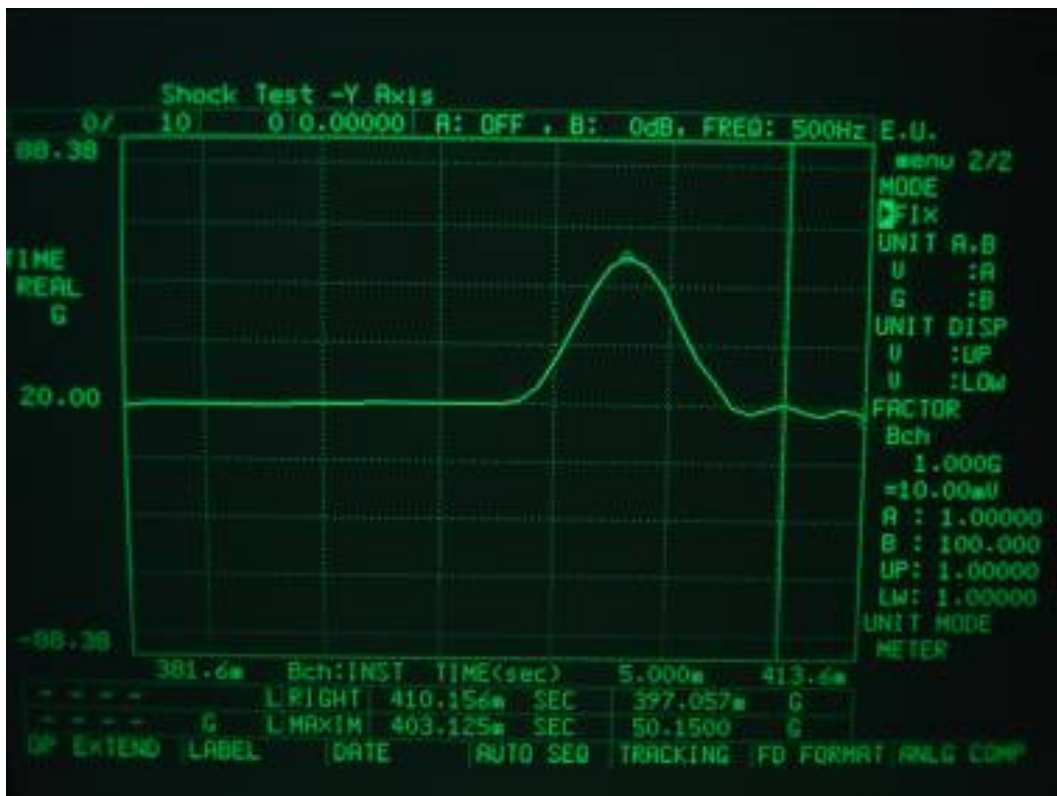


Fig. 11: Switching Hub (JetNet 5012G) Shock Testing data of ±Y Axis -2

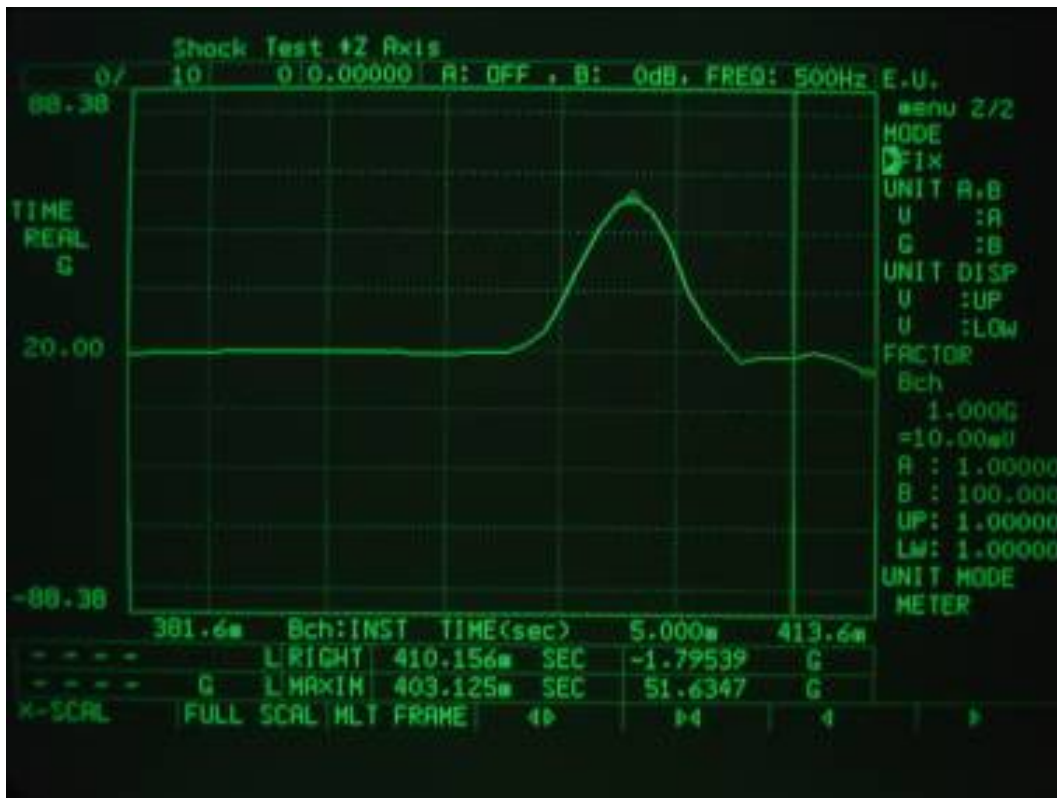


Fig. 12: Switching Hub (JetNet 5012G) Shock Testing data of ±Z Axis -1

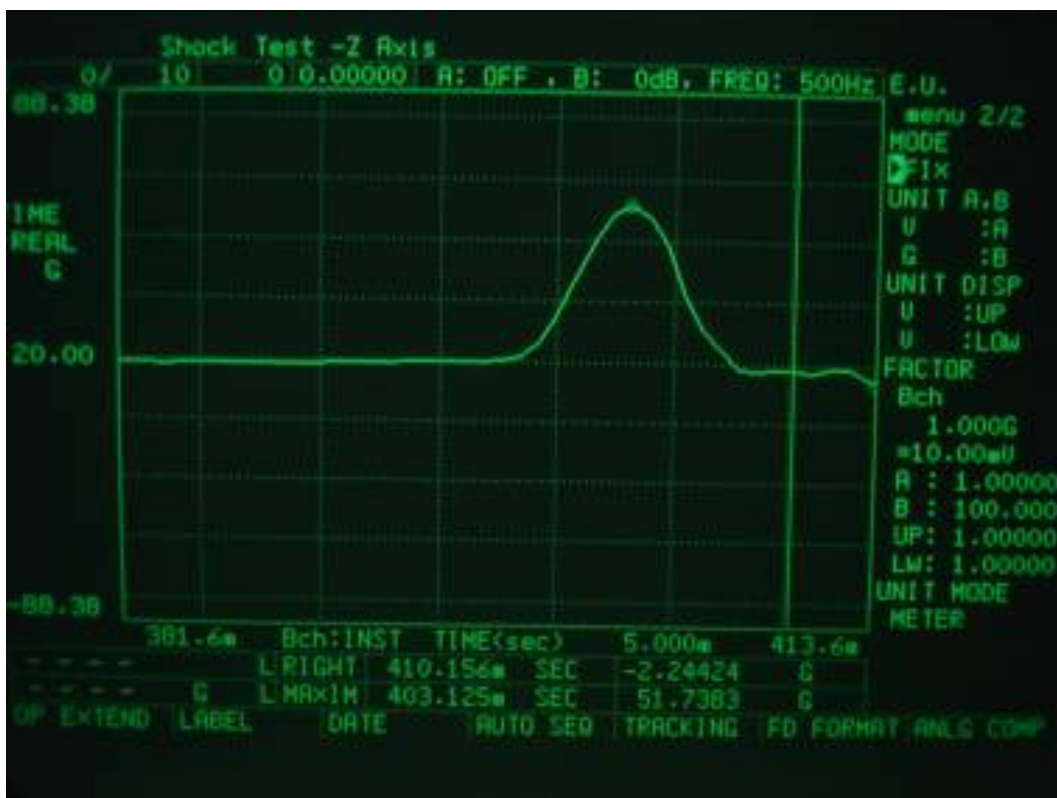


Fig. 12: Switching Hub (JetNet 5012G) Shock Testing data of ±Z Axis -2

3 FALL TEST

3.1.1 Instrument

Instrument	Manufacturer	Model	Serial No.
TAIWAY Drop Machine	N/A	TW-D-065	N/A

3.1.2 Test Ambience

Temperature: 20°C ± 3°C

Humidity: 65% ± 5% (RH)

3.1.3 Specimen & Model Quantity

Specimen: Switching Hub

Model: JetNet 5012G

Quantity: 1 Set.

3.1.4 Test Condition

According to IEC 60068-2-32

Height: 100 cm.

Times of drop: 1 time for each of face, 6 faces.

3.1.5 Test Result

PASS.

1. Test configurations are shown in Fig.13 ~ Fig.18
2. Test specimen was visually inspected after test. No external physical damage was noted.
3. The function of specimen was normal after the fall test.



Fig. 13: Switching Hub (JetNet 5012G) Fall Test (Front)



Fig. 14: Switching Hub (JetNet 5012G) Fall Test (Rear)

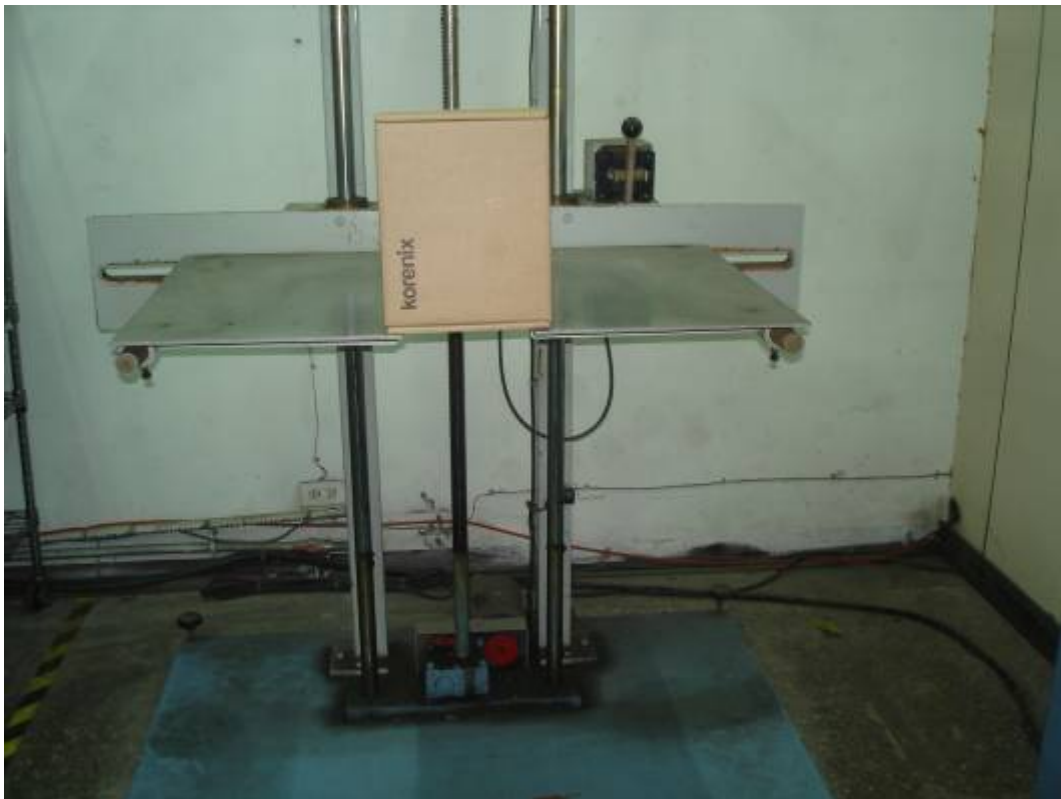


Fig. 15: Switching Hub (JetNet 5012G) Fall Test (Left)

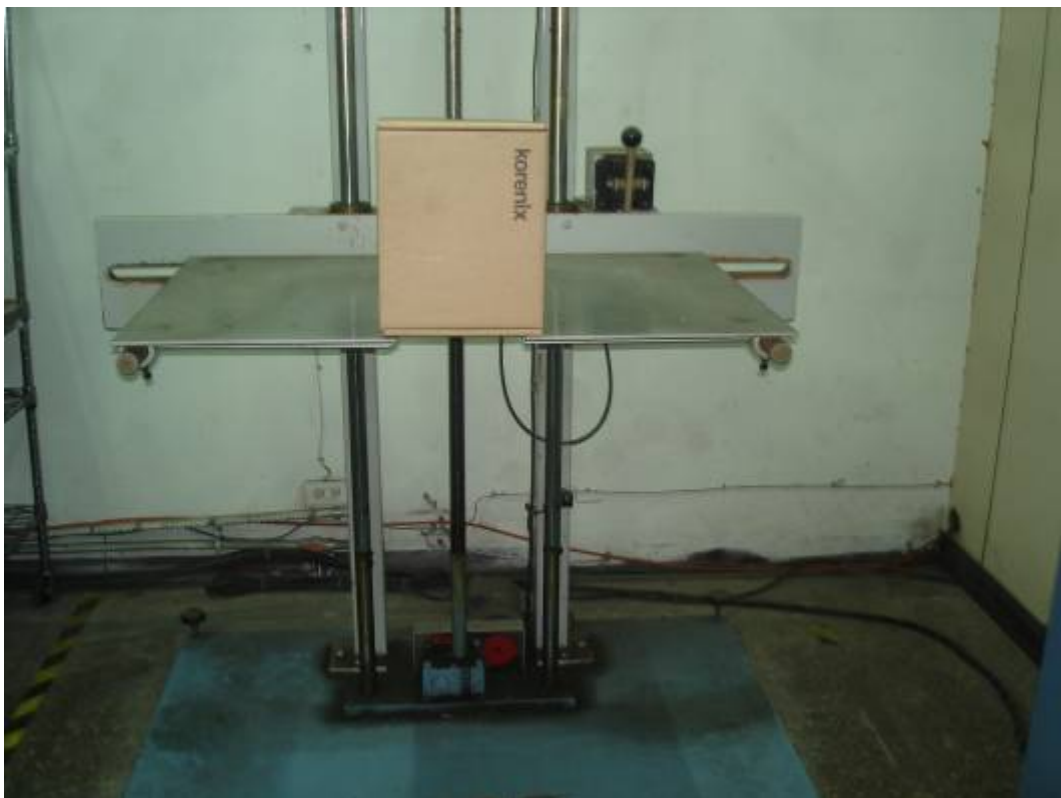


Fig. 16: Switching Hub (JetNet 5012G) Fall Test (Right)



Fig. 17: Switching Hub (JetNet 5012G) Fall Test (Top)



Fig. 18: Switching Hub (JetNet 5012G) Fall Test (Bottom)