

KING DESIGN INDUSTRIAL CO., LTD.

4F, NO. 3, Lane 270, Pei Shen Road Sec. 3,

Shen Keng Dist., New Taipei City, 222, Taiwan, R.O.C

TEL: 886-2-2662-5100 FAX: 886-2-2662-3094

VIBRATION LABORATORY<http://www.kdi.tw><http://www.vibration.com.tw>E-mail: service@kdi.tw**TESTING / INSPECTION REPORT**

REPORT NO : VT-160826-1

COMPANY : TechNexion Ltd.

ADDRESS : 16F-5, No. 736, Zhongzheng Road, ZhongHe District, 23511,
New Taipei City, Taiwan

TEL : 886-2-8227-3585

FAX : 886-2-8227-3590

SPECIMEN : A TYPE: MB- TEK3-i.MX6 Quad(S/N:TEK3-IMX6Q)

Power Expansion-LPOE(S/N:TXB-P1-12V-POE1)

I/O Expansion-XG20 (S/N:TXB-I2-GS2-GC2-GG8)

B TYPE: MB- TEK3-i.MX6 Duallite(S/N:TEK3-IMX6U)

Power Expansion-L112(S/N:TXB-P1-12V-LAN1)

I/O Expansion-XS20 (S/N:TXB-I2-S2-C2-G8)

DATE OF RECEIVED : 2016/08/18

DATE OF TESTED : 2016/08/18

TEST / INSPECTION ITEMS : Vibration Test

REMARKS :

- The laboratory is accredited by ISO/IEC 17025 General Requirements for the Competence of Calibration and Testing Laboratory.
- The results only apply to the device under test.
- This report is 9 pages, and no part of it may be abstracted or reproduced.

Test Engineer : 	
Approval Signatory :  2016.9.9	Laboratory Head : 

金頓科

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TESTING / INSPECTION REPORT

TESTING EQUIPMENT :

1. Vibration Tester : KING DESIGN KD-9363EM-600F2K-50N120,
S/N : KDS11054986
2. Vibration Controller : VCS-913⁺, S/N : 1312384
3. Control Accelerometer : Wilcoxon Research WR-777, S/N : 4207

TEST ENVIRONMENT :

Temperature : 26°C (25±10°C)
Relative Humidity : 63%RH (50±25% RH)

SPECIMEN :

Model/(S/N)

:

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Power Expansion-LPOE(S/N:TXB-P1-12V-POE1)
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B TYPE: MB- TEK3-i.MX6 Duallite(S/N:TEK3-IMX6U)
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I/O Expansion-XS20 (S/N:TXB-I2-S2-C2-G8)

Quantity

: 2 units

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TEST SPECIFICATION :

Random Vibration test (Operating)

Frequency : 5 Hz to 500 Hz

Frequency (Hz)	PSD (g) ² /Hz
5	0.0181818
500	0.0181818

Test Axis : X, Y, Z axis

Acceleration : 3 grms

Test Time : 60 min / axis

Total Test Time : 180 min

TEST RESULT :

Describe	PASS	FAIL	Non-Judgment
Function judgment	√	—	—
Appearance check	√	—	—

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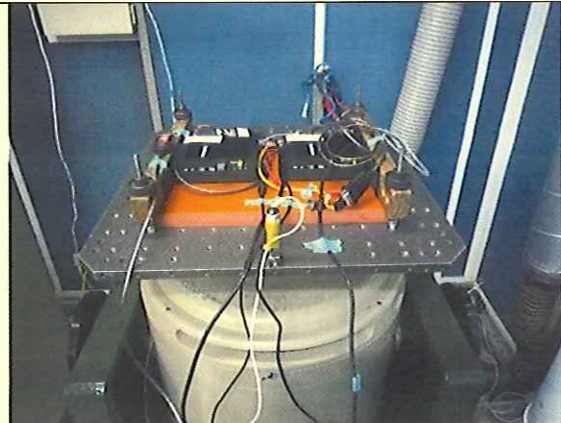
TESTING / INSPECTION REPORT

Vibration testing photos

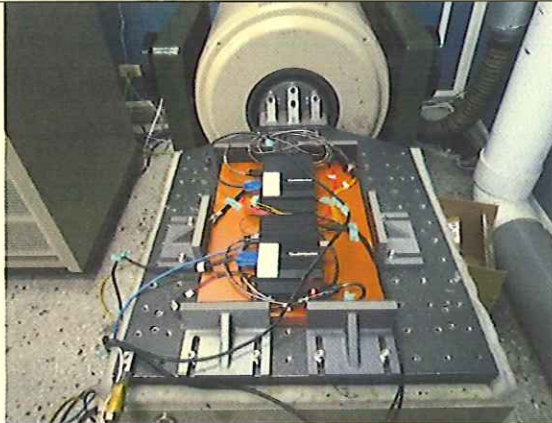
Testing equipment



Z axis



X axis



Y axis



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Testing photos

After test-1



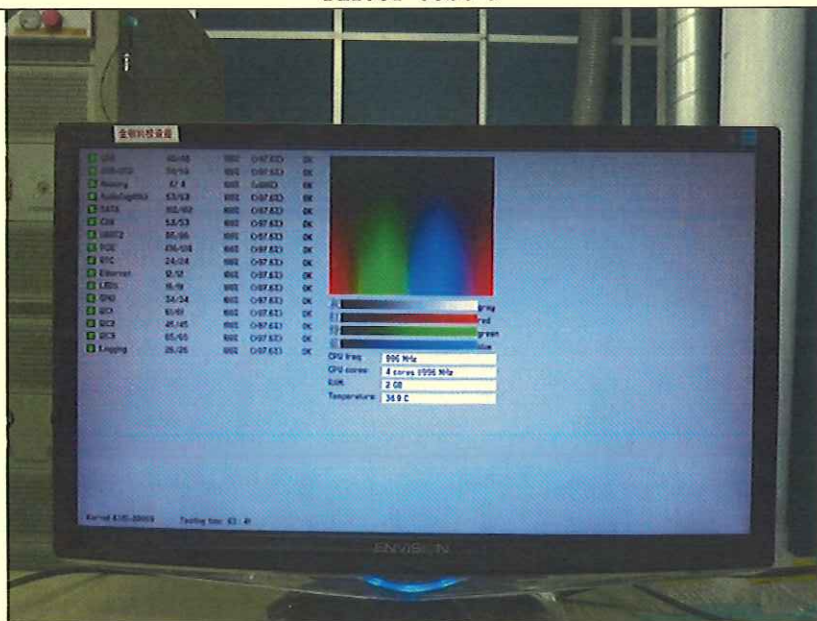
After test-2



TESTING / INSPECTION REPORT

Testing photos

After test-3



After test-4

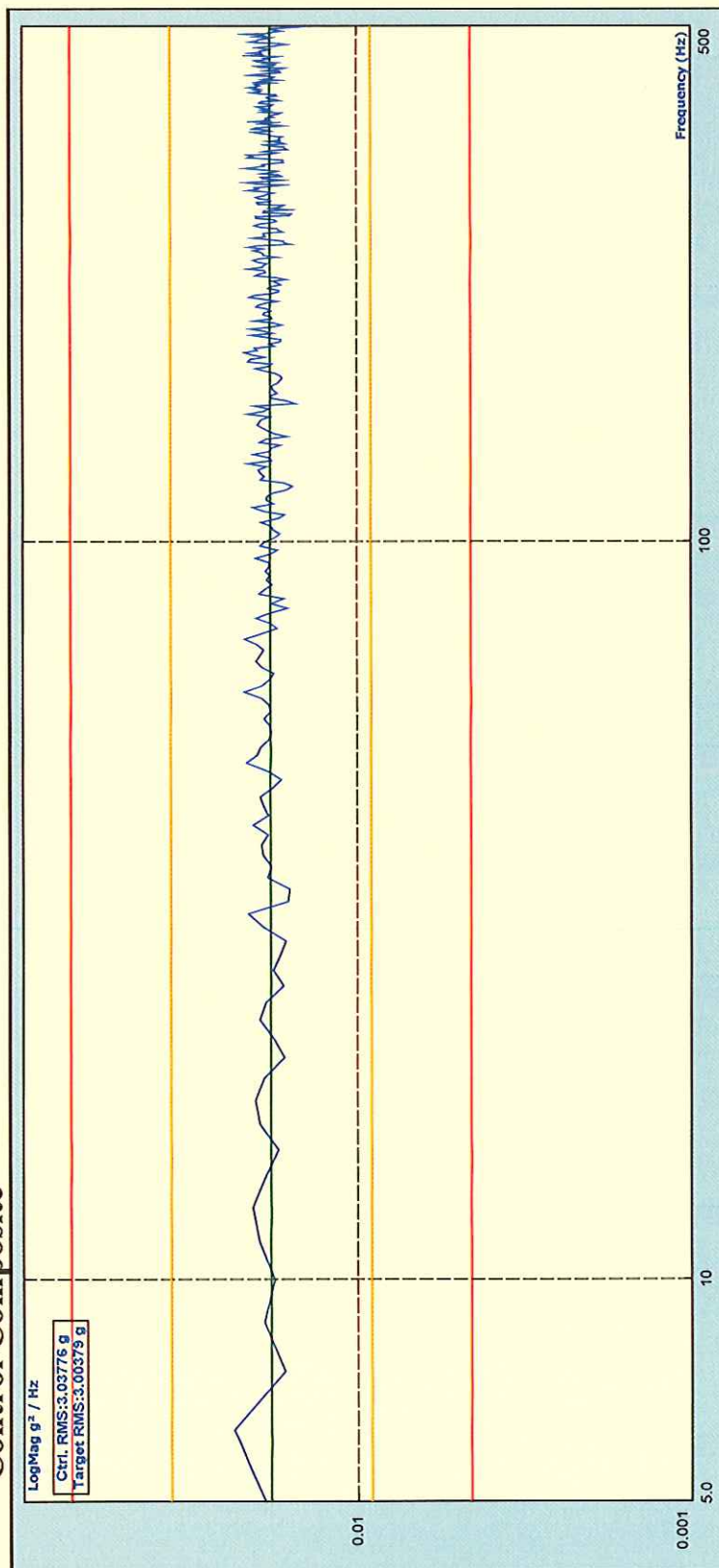




X axis -

Test Name: 5-500Hz 3 grms-Copy[VCS (Random)] Test saved at: Aug-18-2016, 09:48:26

Control Composite



Level: 100.00 %

Velocity Pk: 12.21 in/s

Remaining: 00:00:00

Block Size/Lines: 1024/400

Delta Frequency: 1.250000

Drive Pk: 0.928V

Control RMS: 3.038 g

Total Elapsed: 01:01:20

Frame Time: 0.8 Seconds

Est. Disp. : 13.03 mm Pk-Pk

Target RMS: 3.000 g

Full Level Elapsed: 01:00:00

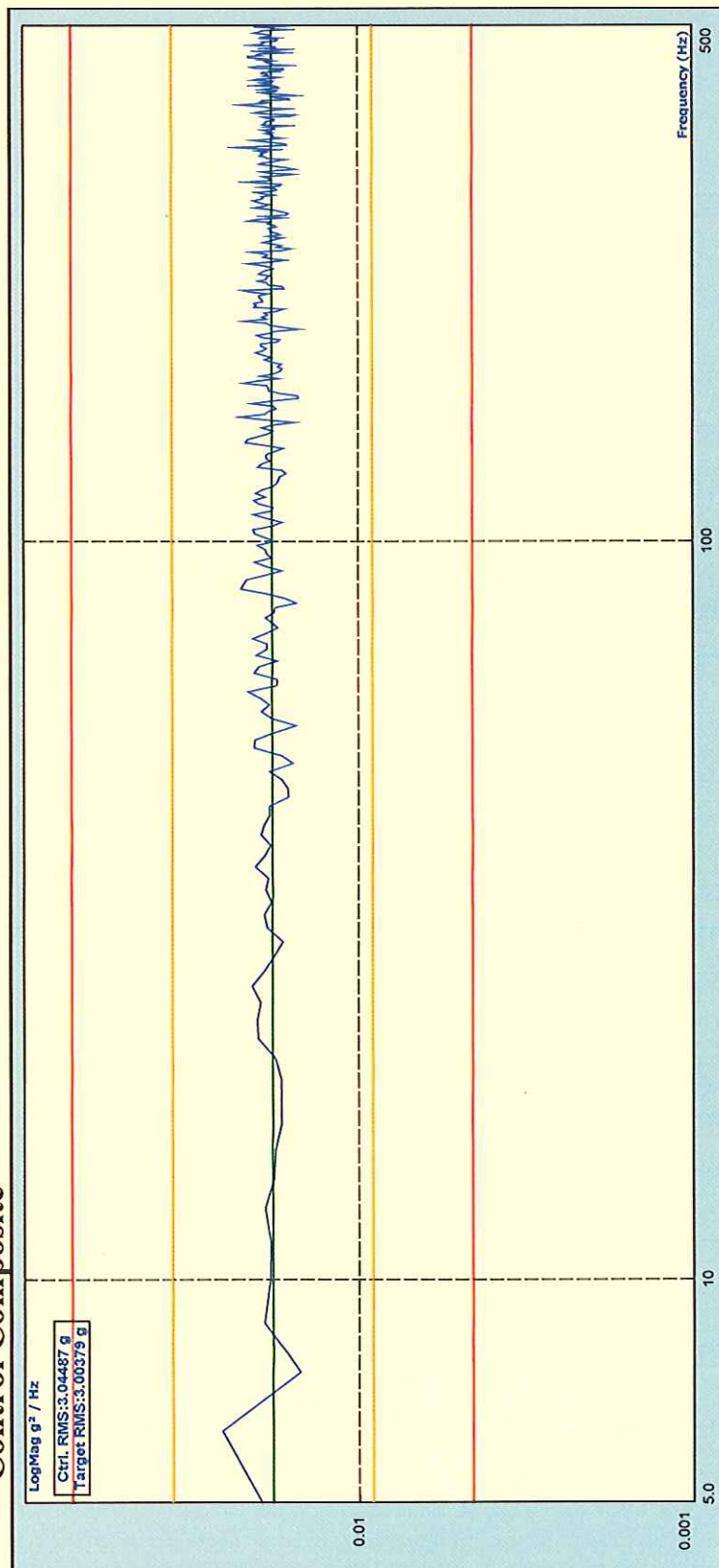
DOF: 64



Y axis

Test Name: 5-500Hz 3 grms-Copy[VCS (Random)] Test saved at: Aug-18-2016, 09:48:26

Control Composite



Level: 100.00 %

Velocity Pk: 12.30 in/s

Remaining: 00:00:00

Block Size/Lines: 1024/400

Delta Frequency: 1.250000

Drive Pk: 1.059V

Control RMS: 3.045 g

Total Elapsed: 01:01:19

Frame Time: 0.8 Seconds

Est. Disp. : 13.26 mm Pk-Pk

Target RMS: 3.000 g

Full Level Elapsed: 01:00:00

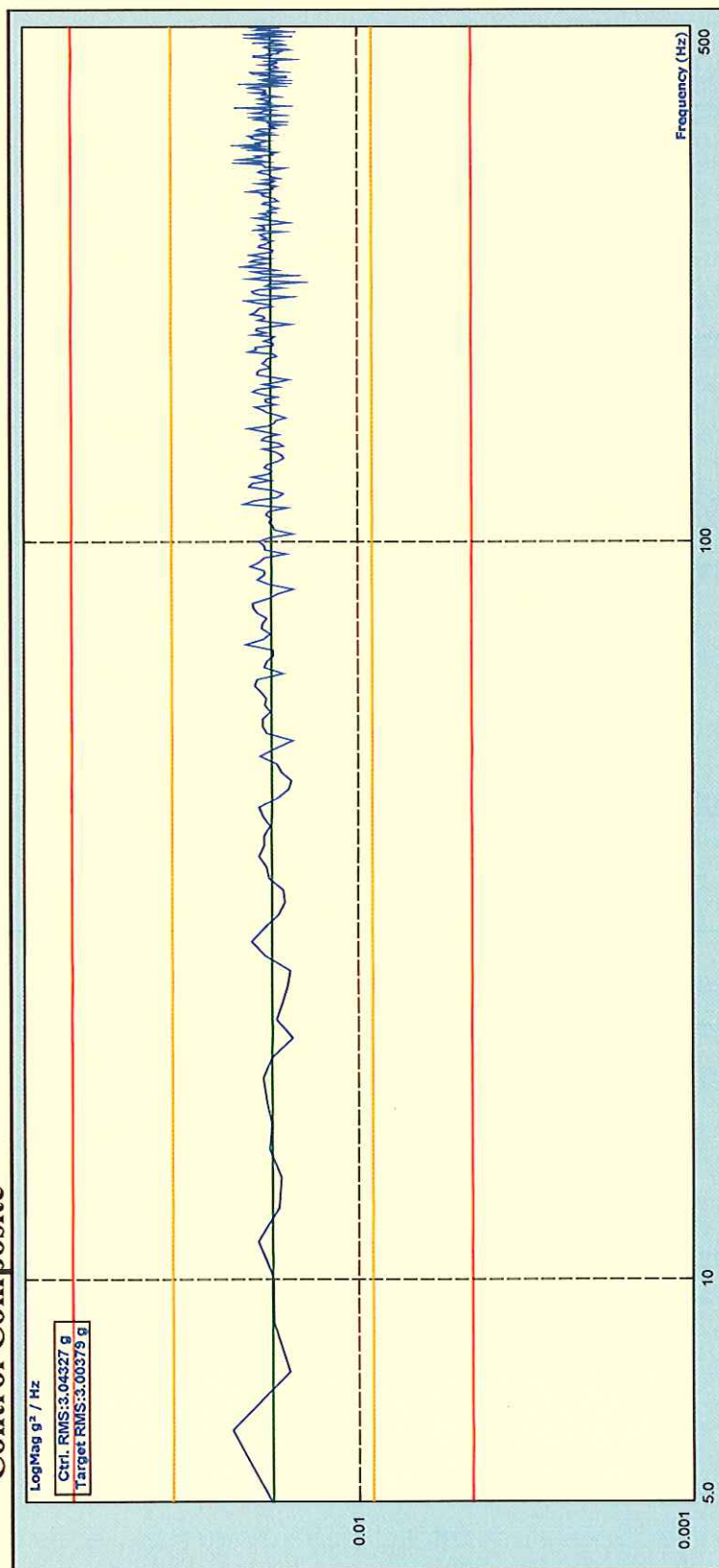
DOF: 64



Z axis

Test Name: 5-500Hz 3 grms-Copy[VCS (Random)] Test saved at: Aug-18-2016, 09:48:26

Control Composite



Level: 100.00 %

Velocity Pk: 12.10 in/s

Remaining: 00:00:00

Block Size/Lines: 1024/400

Delta Frequency: 1.250000

-END-

Drive Pk: 0.979V

Control RMS: 3.043 g

Total Elapsed: 01:01:18

Frame Time: 0.8 Seconds

Est. Disp. : 12.93 mm Pk-Pk

Target RMS: 3.000 g

Full Level Elapsed: 01:00:00

DOF: 64