

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 : ST-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)

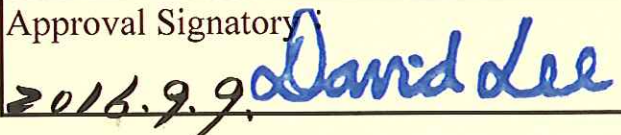
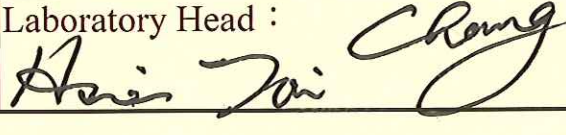
DATE OF RECEIVED : 2016/08/18

DATE OF TESTED : 2016/08/18

TEST / INSPECTION ITEMS : Shock 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 12 pages, and no part of it may be abstracted or reproduced.

Test Engineer : 	
Approval Signatory :  2016.9.9.	Laboratory Head : 

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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)

:

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)

Quantity

: 2 units

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TESTING / INSPECTION REPORT

TEST SPECIFICATION :

Shock test (Operating)

Wave Form : Half sine wave

Acceleration : 30 G

Duration Time : 11 mS

No. of Shock : 3 (Each Axis)

Shock Direction : $\pm X$, $\pm Y$, $\pm Z$ axis

TEST RESULT :

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

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TESTING / INSPECTION REPORT

Shock testing photos

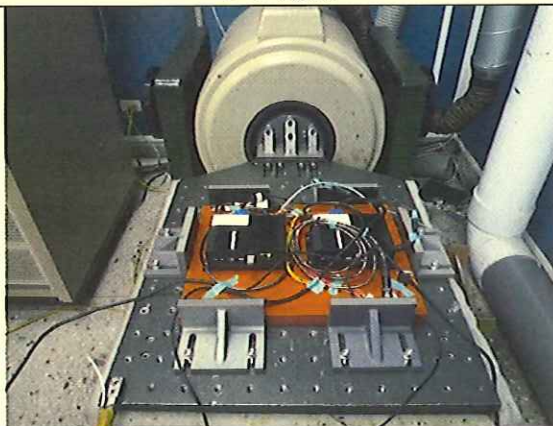
+X axis



-X axis



+Y axis



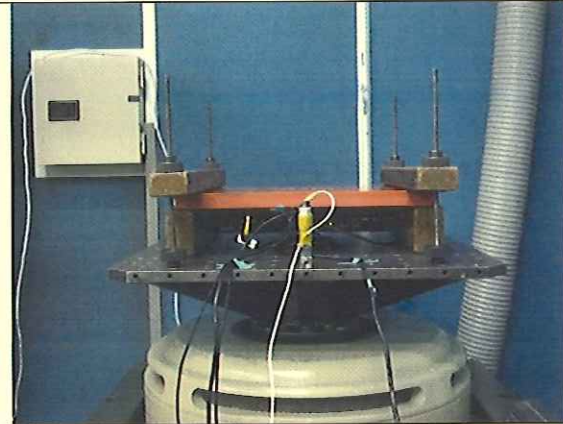
-Y axis



+Z axis



-Z axis



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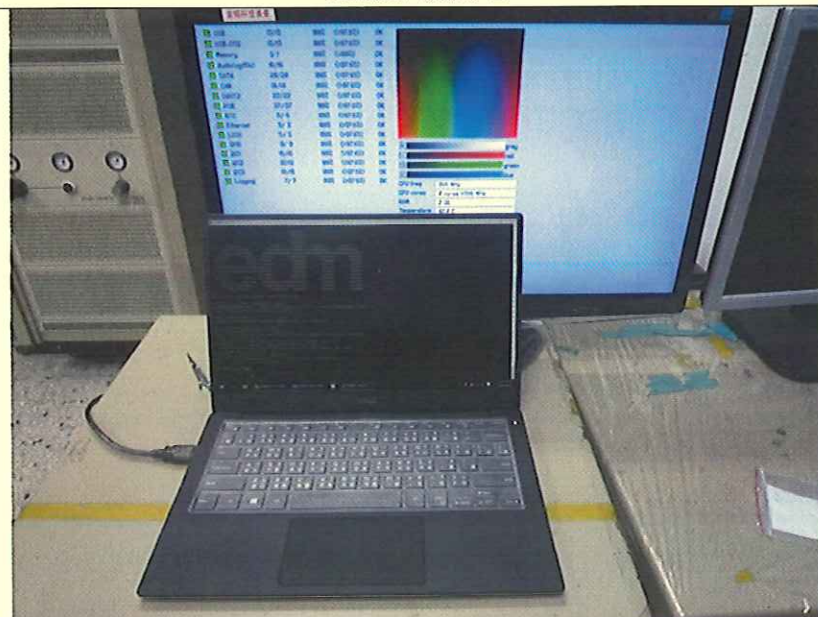
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Testing photos

After test-1



After test-2



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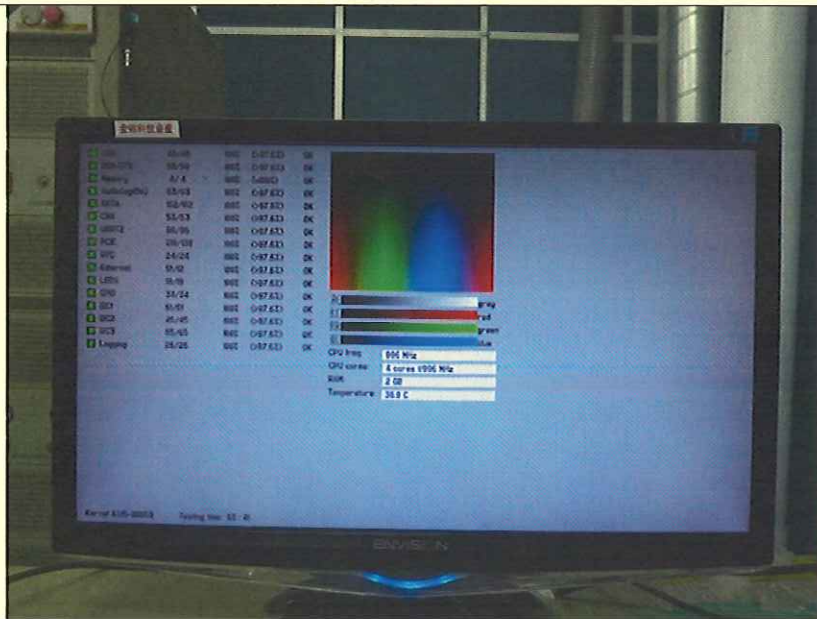
<http://www.vibration.com.tw>

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TESTING / INSPECTION REPORT

Testing photos

After test-3



After test-4



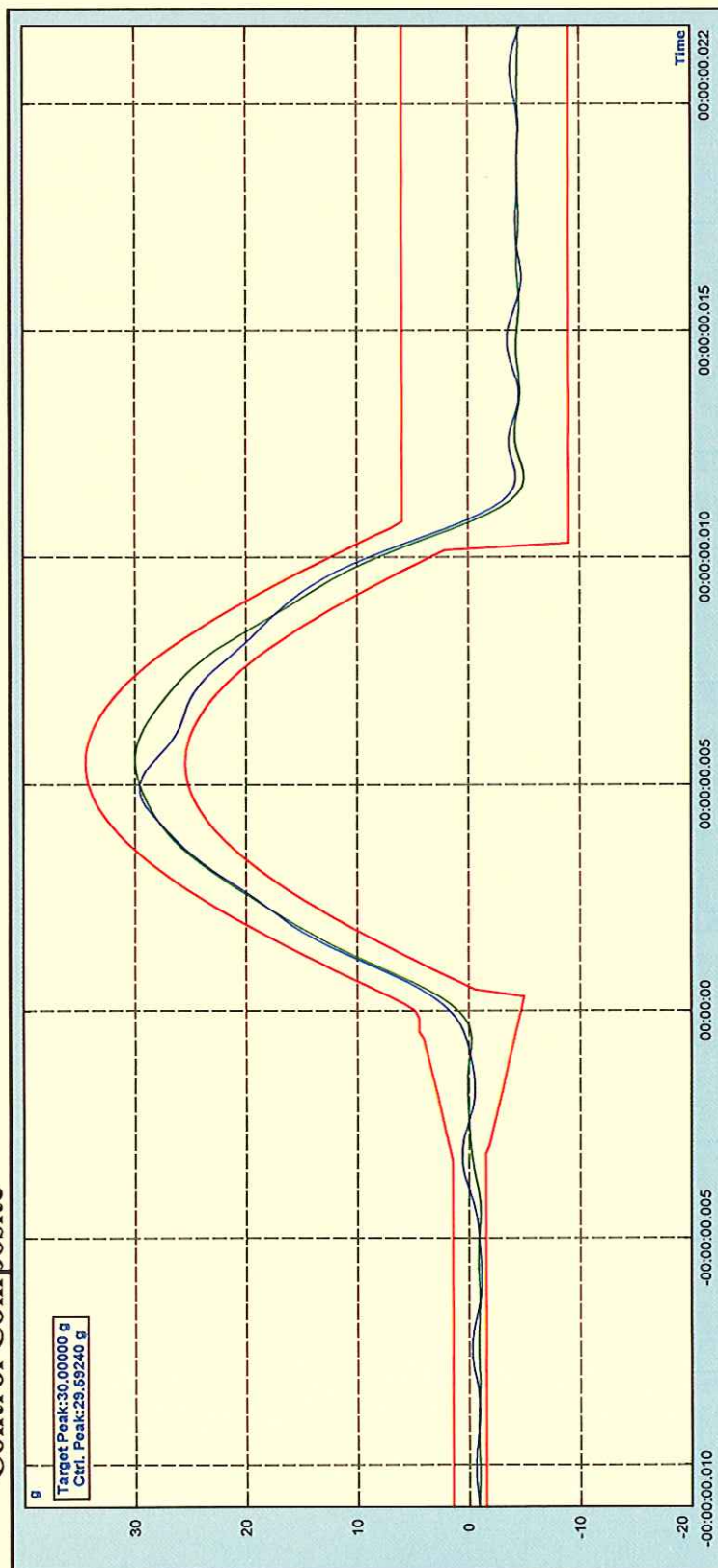


+X axis - shock test

Test Name: HS 30g 11 ms[VCS (Shock)]

Test saved at: Aug-18-2016, 16:44:44

Control Composite



Level: 100.00 %

Velocity Pk: 41.87 in/s

Control RMS: 2.995 g

Full Level Elapsed: 3.0

Control Displacement: 27.48117 PkPk mm

dT: 0.00015625 Seconds

Drive Pk: 2.249V

Control Pk: 29.59 g

Remaining: 0.0

Pulse width: 11.00 ms

Control Velocity: 41.86609 Pk in/s

Sampling Rate : 6400.00 Hz fs

Est. Disp. : 27.48 mm Pk-Pk

Target Pk: 30.00 g

Total Elapsed: 20.0

Measured Pulse width: 0.00000(ms)

Block T / Size: 0.64 Seconds / 4096

Frequency Range (fa): 2500.00 Hz

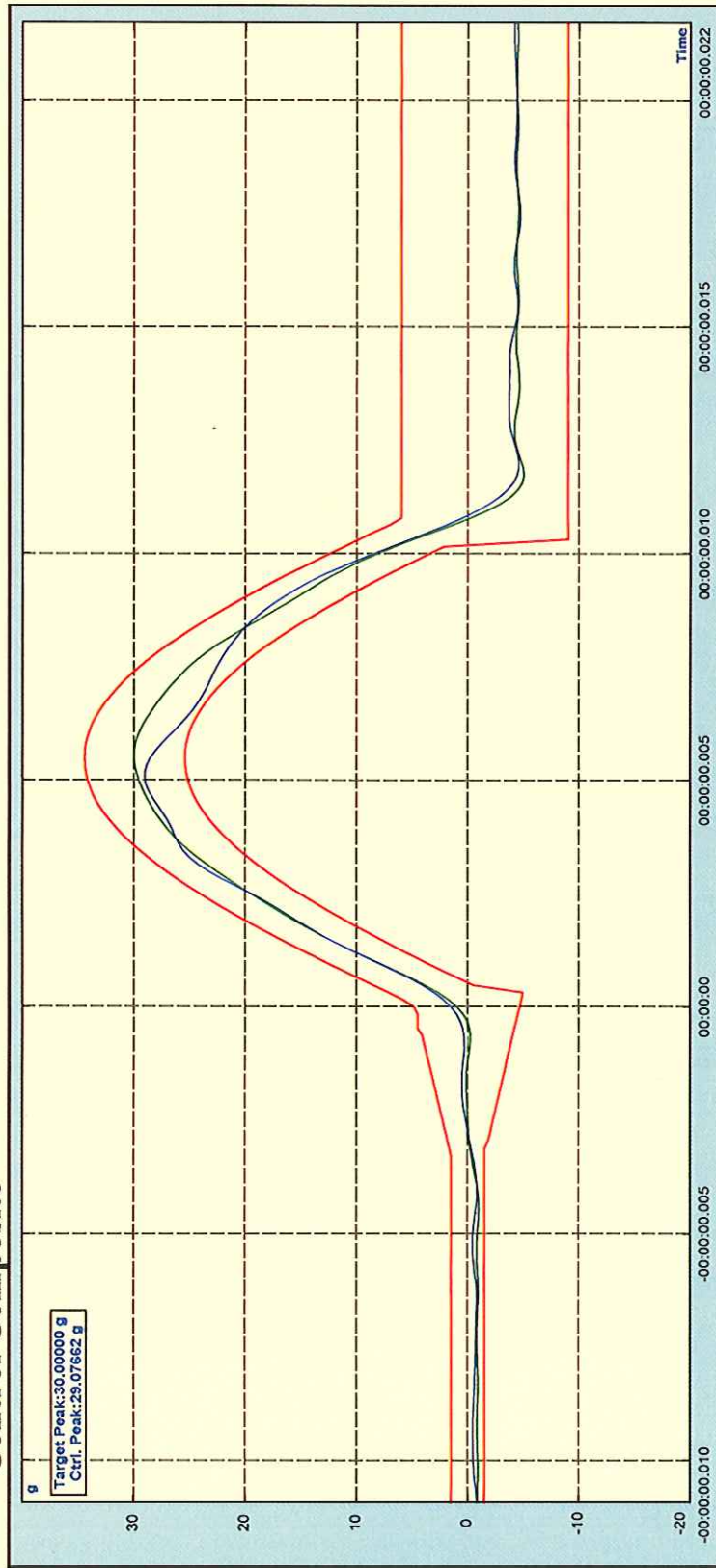


+Y axis - shock test

Test Name: HS 30g 11 ms[VCS (Shock)]

Test saved at: Aug-18-2016, 16:44:44

Control Composite



Level: 100.00 %

Velocity Pk: 41.83 in/s

Control RMS: 2.982 g

Full Level Elapsed: 3.0

Control Displacement: 27.41779 PkPk mm

dT: 0.00015625 Seconds

Drive Pk: 2.317V

Control Pk: 29.08 g

Remaining: 0.0

Pulse width: 11.00 ms

Control Velocity: 41.83445 Pk in/s

Sampling Rate : 6400.00 Hz fs

Est. Disp. : 27.42 mm Pk-Pk

Target Pk: 30.00 g

Total Elapsed: 20.0

Measured Pulse width: 0.00000(ms)

Block T / Size: 0.64 Seconds / 4096

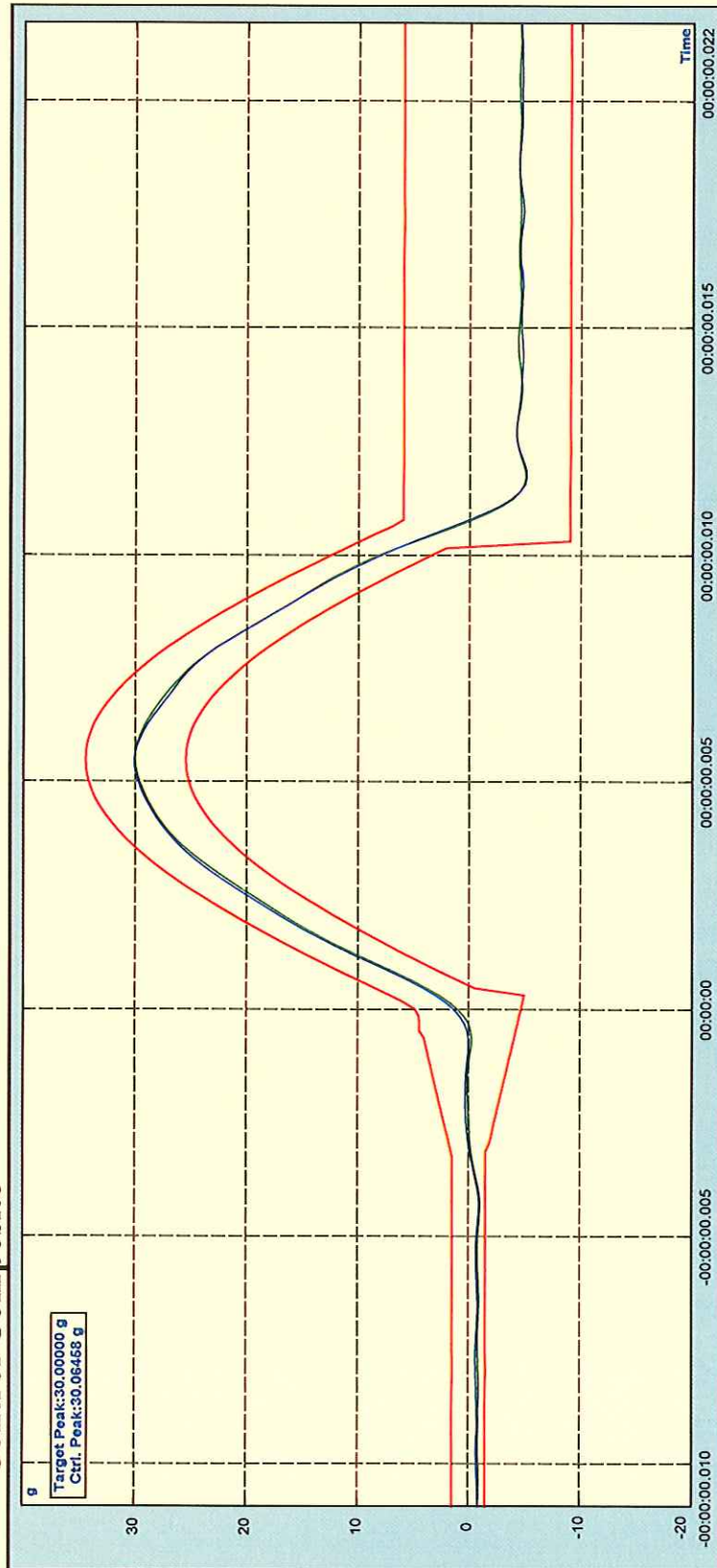
Frequency Range (fa): 2500.00 Hz

+Z axis - shock test

Test Name: HS 30g 11 ms[VCS (Shock)]

Test saved at: Aug-18-2016, 15:31:29

Control Composite



Level: 100.00 %

Velocity Pk: 43.09 in/s

Control RMS: 3.104 g

Full Level Elapsed: 3.0

Control Displacement: 28.35622 PkPk mm

dT: 0.00015625 Seconds

Drive Pk: 1.763V

Control Pk: 30.06 g

Remaining: 0.0

Pulse width: 11.00 ms

Control Velocity: 43.09443 Pk in/s

Sampling Rate : 6400.00 Hz fs

Est. Disp. : 28.36 mm Pk-Pk

Target Pk: 30.00 g

Total Elapsed: 20.0

Measured Pulse width: 0.00000(ms)

Block T / Size: 0.64 Seconds / 4096

Frequency Range (fa): 2500.00 Hz

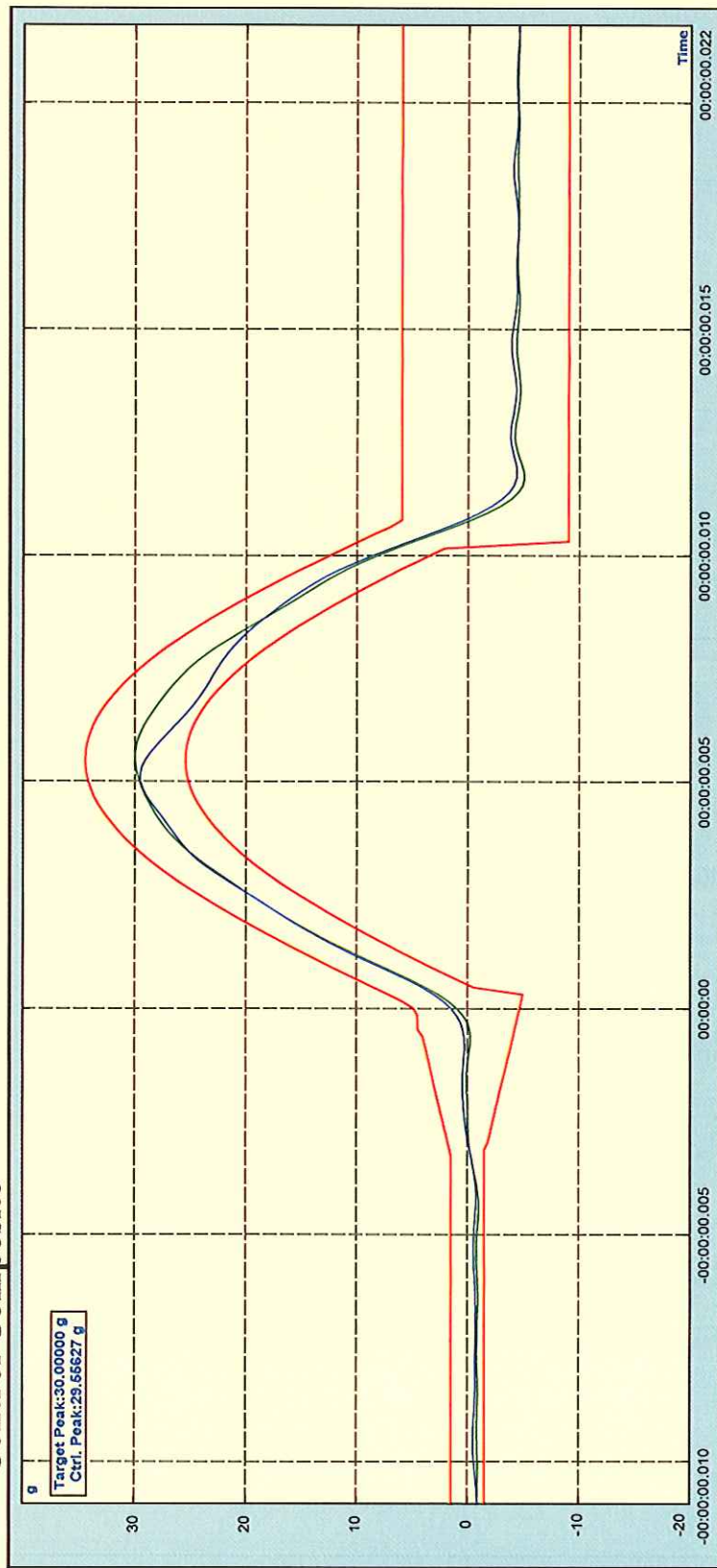


-X axis - shock test Test

Test Name: HS 30g 11 ms[VCS (Shock)]

Test saved at: Aug-18-2016, 16:44:44

Control Composite



Level: 100.00 %

Velocity Pk: 41.87 in/s

Control RMS: 2.988 g

Full Level Elapsed: 3.0

Control Displacement: 27.47541 PkPk mm

dT: 0.00015625 Seconds

Drive Pk: 2.298V

Control Pk: 29.56 g

Remaining: 0.0

Pulse width: 11.00 ms

Control Velocity: 41.87278 Pk in/s

Sampling Rate : 6400.00 Hz fs

Est. Disp. : 27.48 mm Pk-Pk

Target Pk: 30.00 g

Total Elapsed: 20.0

Measured Pulse width: 0.00000(ms)

Block T / Size: 0.64 Seconds / 4096

Frequency Range (fa): 2500.00 Hz

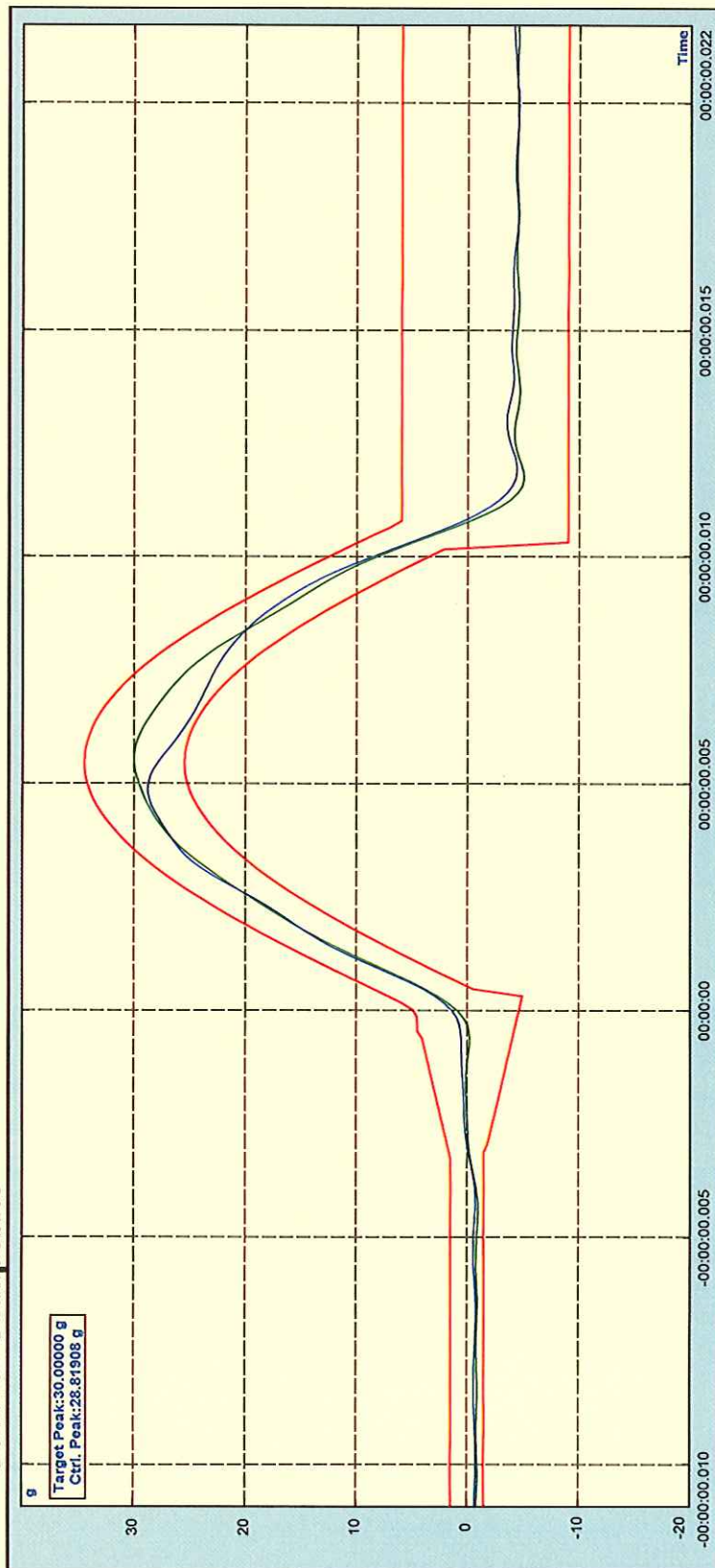


-Y axis - shock test Test

Test Name: HS 30g 11 ms[VCS (Shock)]

Test saved at: Aug-18-2016, 16:44:44

Control Composite



Level: 100.00 %

Velocity Pk: 41.66 in/s

Control RMS: 2.973 g

Full Level Elapsed: 3.0

Control Displacement: 27.41016 PkPk mm

dT: 0.00015625 Seconds

Drive Pk: 2.292V

Control Pk: 28.82 g

Remaining: 0.0

Pulse width: 11.00 ms

Control Velocity: 41.66236 Pk in/s

Sampling Rate : 6400.00 Hz fs

Est. Disp. : 27.41 mm Pk-Pk

Target Pk: 30.00 g

Total Elapsed: 20.0

Measured Pulse width: 0.00000(ms)

Block T / Size: 0.64 Seconds / 4096

Frequency Range (fa): 2500.00 Hz

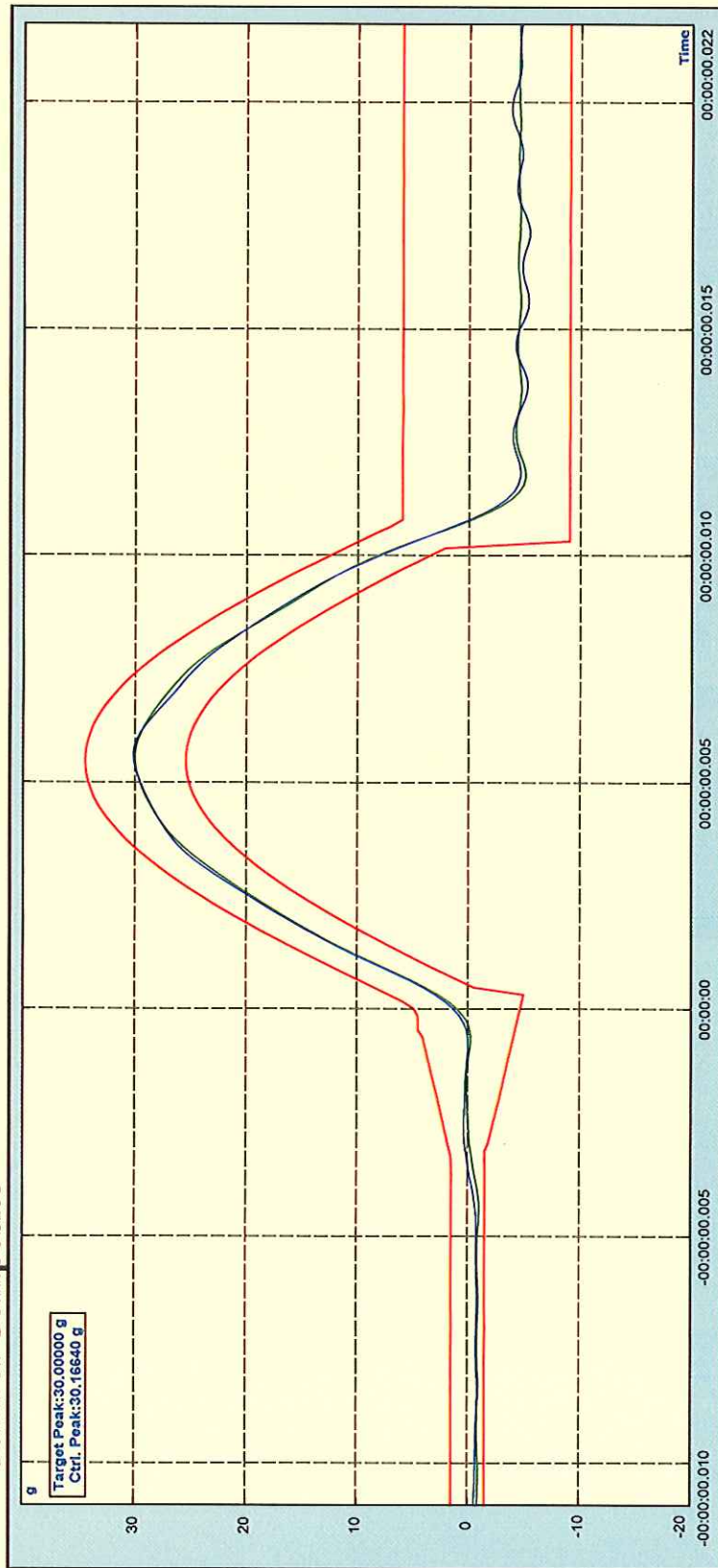


-Z axis - shock test Test

Test Name: HS 30g 11 ms[VCS (Shock)]

Test saved at: Aug-18-2016, 15:31:29

Control Composite



Level: 100.00 %

Velocity Pk: 43.15 in/s

Control RMS: 3.097 g

Full Level Elapsed: 3.0

Control Displacement: 28.41002 PkPk mmControl Velocity: 43.15319 Pk in/s Block T / Size: 0.64 Seconds / 4096

dT: 0.00015625 Seconds Sampling Rate : 6400.00 Hz fs Frequency Range (fa): 2500.00 Hz

Drive Pk: 1.893V

Control Pk: 30.17 g

Remaining: 0.0

Pulse width: 11.00 ms

Est. Disp. : 28.41 mm Pk-Pk

Target Pk: 30.00 g

Total Elapsed: 20.0

Measured Pulse width: 0.00000(ms)

-END-