

KING DESIGN INDUSTRIAL CO., LTD.

VIBRATION LABORATORY

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

<http://www.kdi.tw>
<http://www.vibration.com.tw>
E-mail: service@kdi.tw

TESTING / INSPECTION REPORT

REPORT NO : ST-161006-1

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 : TEP1010-IMX6 series
MB TEP5-i.MX6 Quad --- TEP5-IMX6Q
Power Expansion-L130--- TXB-P1-1030V-LAN1
I/O Expansion-XG20 --- TXB-I2-GS2-GC2-GG8

DATE OF RECEIVED : 2016/09/26
DATE OF TESTED : 2016/09/26

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.

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Test Engineer : <i>Hein Zai Chang</i>	
Approval Signatory : <i>David Lee</i>	Laboratory Head : <i>Hein Zai Chang</i>

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TESTING EQUIPMENT :

1. Vibration Tester : KING DESIGN KD-9363EM-600F2K-50N120,
S/N : KDS11054783
2. Vibration Controller : VCS-913+, S/N : 1312416
3. Control Accelerometer : Wilcoxon Research WR-777, S/N : 4208

TEST ENVIRONMENT :

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

SPECIMEN :

Model/(S/N) : TEP1010-IMX6 series
MB TEP5-i.MX6 Quad --- TEP5-IMX6Q
Power Expansion-L130--- TXB-P1-1030V-LAN1
I/O Expansion-XG20 --- TXB-I2-GS2-GC2-GG8

Quantity : 1 unit

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TEST SPECIFICATION :

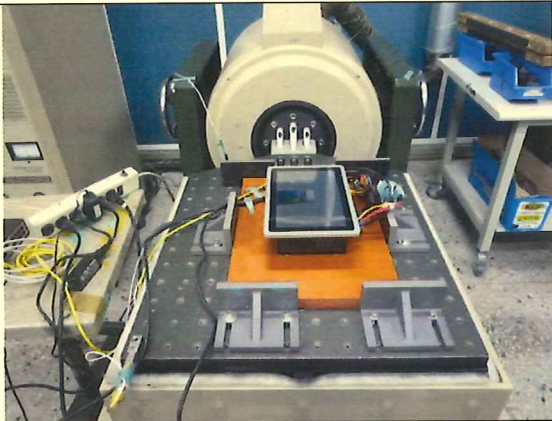
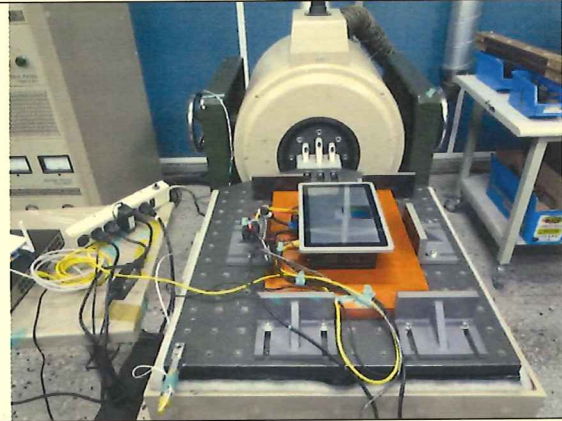
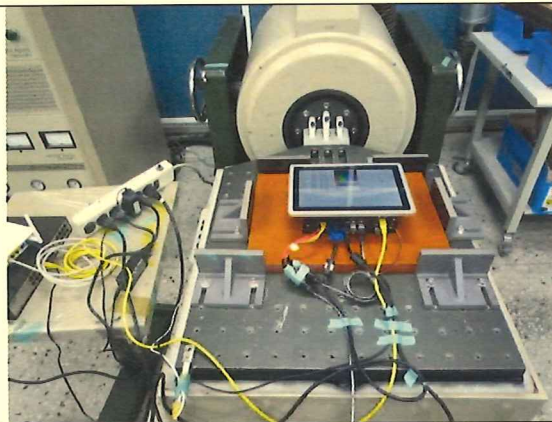
Shock test (Operating)
 Wave Form : Half sine wave
 Acceleration : 15 g
 Duration Time : 11 mS
 No. of Shock : 3 (Each Axis)
 Shock Direction : $\pm X$, $\pm Y$, $\pm Z$ axis

TEST RESULT :

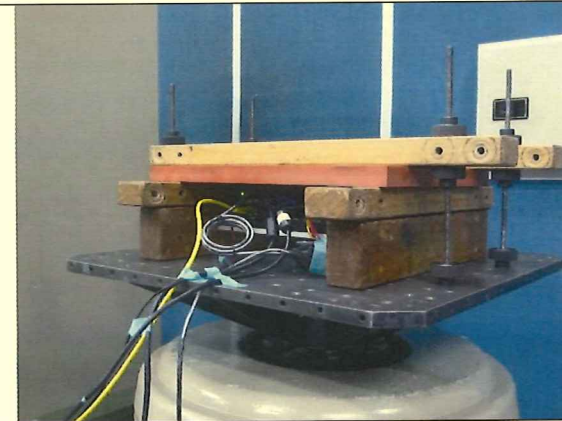
Describe	PASS	FAIL	Non-Judgment
Function judgment	√	—	—
Appearance check	√	—	—

TESTING / INSPECTION REPORT

Shock testing photos

+X axis

-X axis

+Y axis

-Y axis

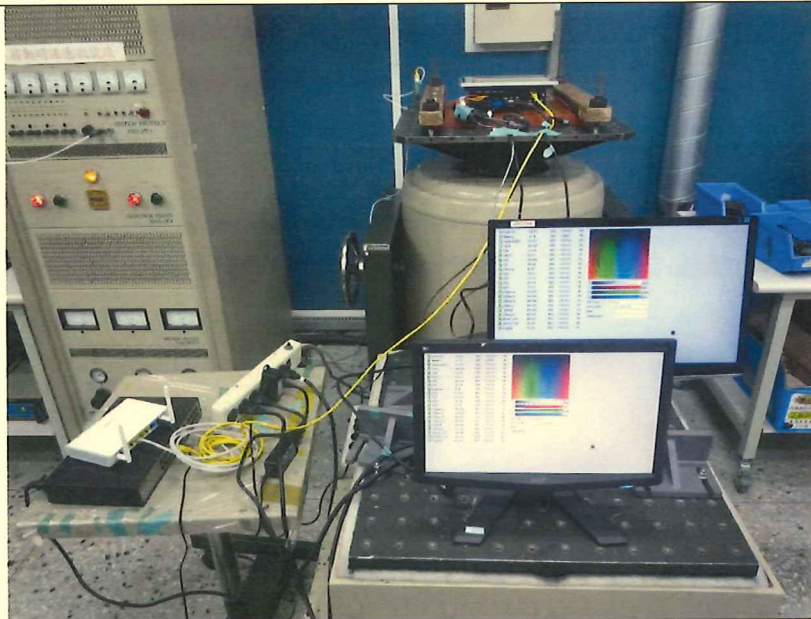
+Z axis

-Z axis


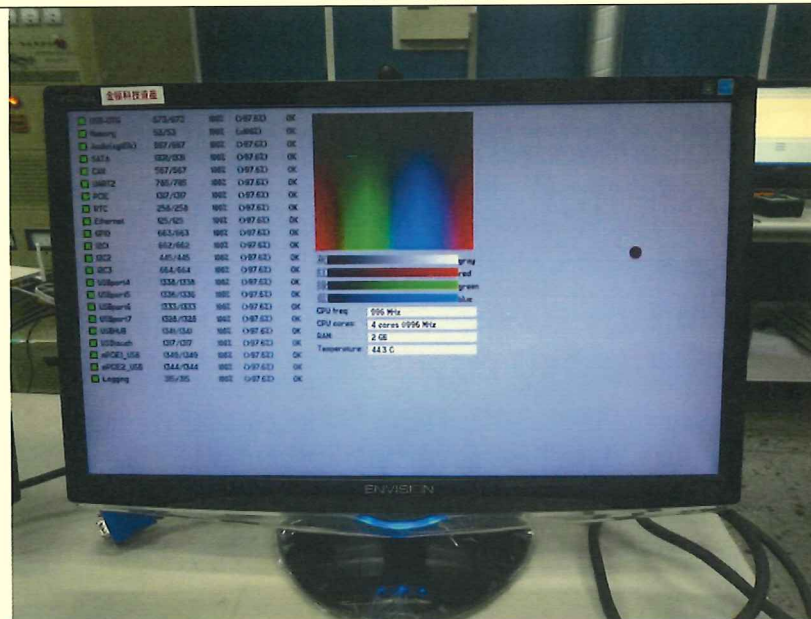
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Testing photos

After test-1



After test-2




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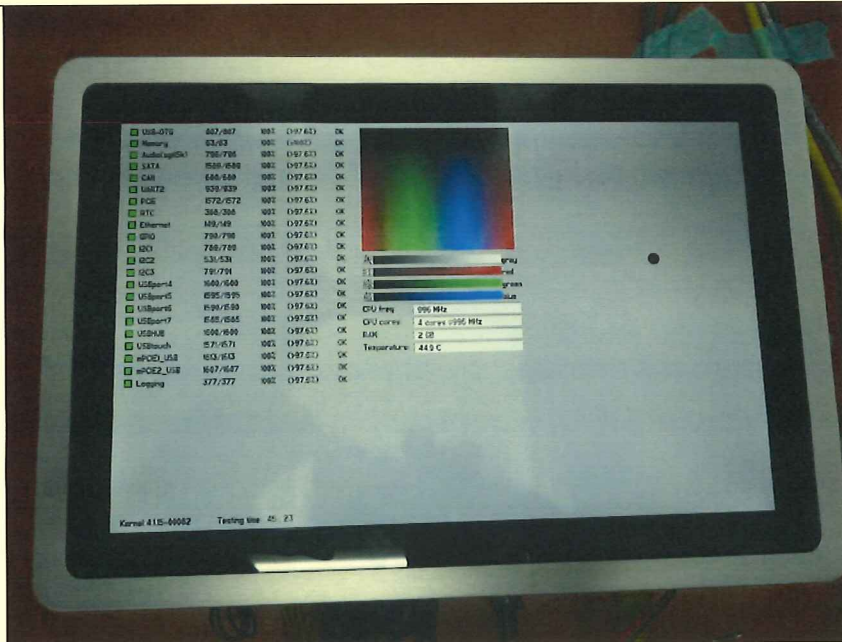
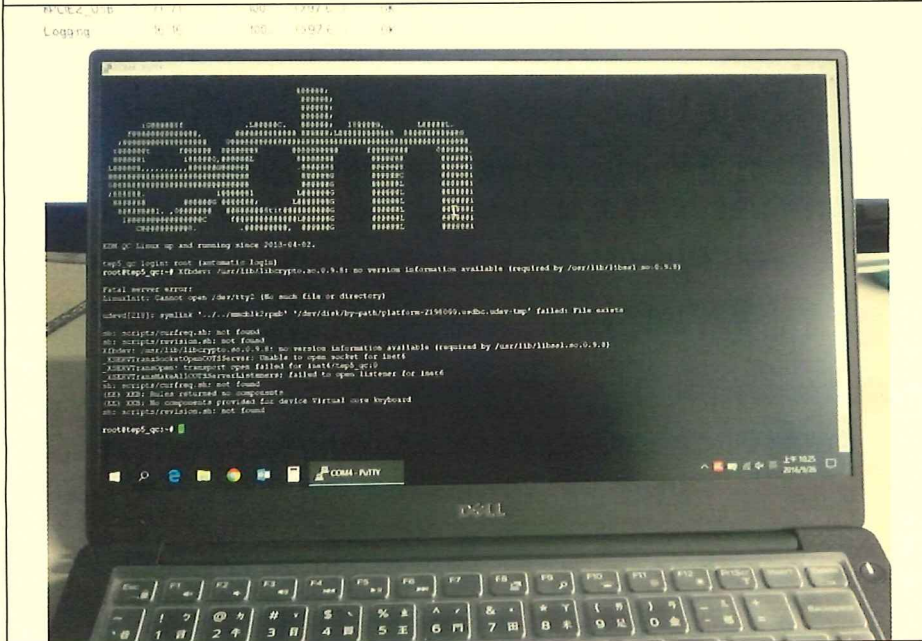
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Testing photos

After test-3

After test-4


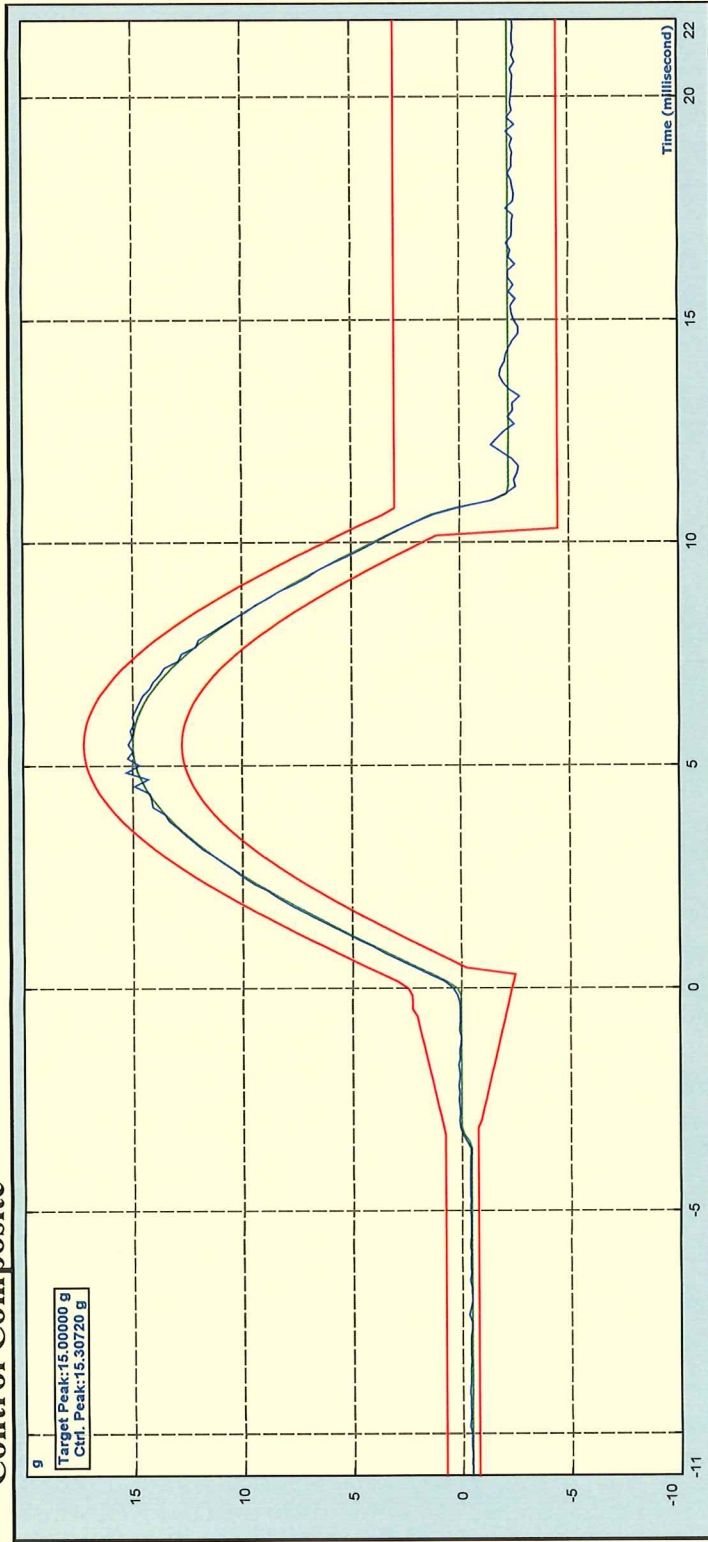


+X axis - shock test

Test Name: HS 15 g 11 ms[VCS (Shock)]

Test saved at: Sep-26-2016, 15:04:32

Control Composite



Level: 100.00 %

Velocity Pk: 570.9 mm/s

Control RMS: 1.613 g

Full Level Elapsed: 3.0

Control Displacement: 14.53650 PkPk mm

Control Velocity: 570.94592 Pk mm/s Block T / Size: 0.64 Seconds / 4096

dT: 0.00015625 Seconds

Drive Pk: 2.565V

Control Pk: 15.31 g

Remaining: 0.0

Pulse width: 11.00 ms

Est. Disp.: 14.54 mm Pk-Pk

Target Pk: 15.00 g

Total Elapsed: 21.0

Measured Pulse width: 14.02491(ms)

Frequency Range (fa): 2500.00 Hz



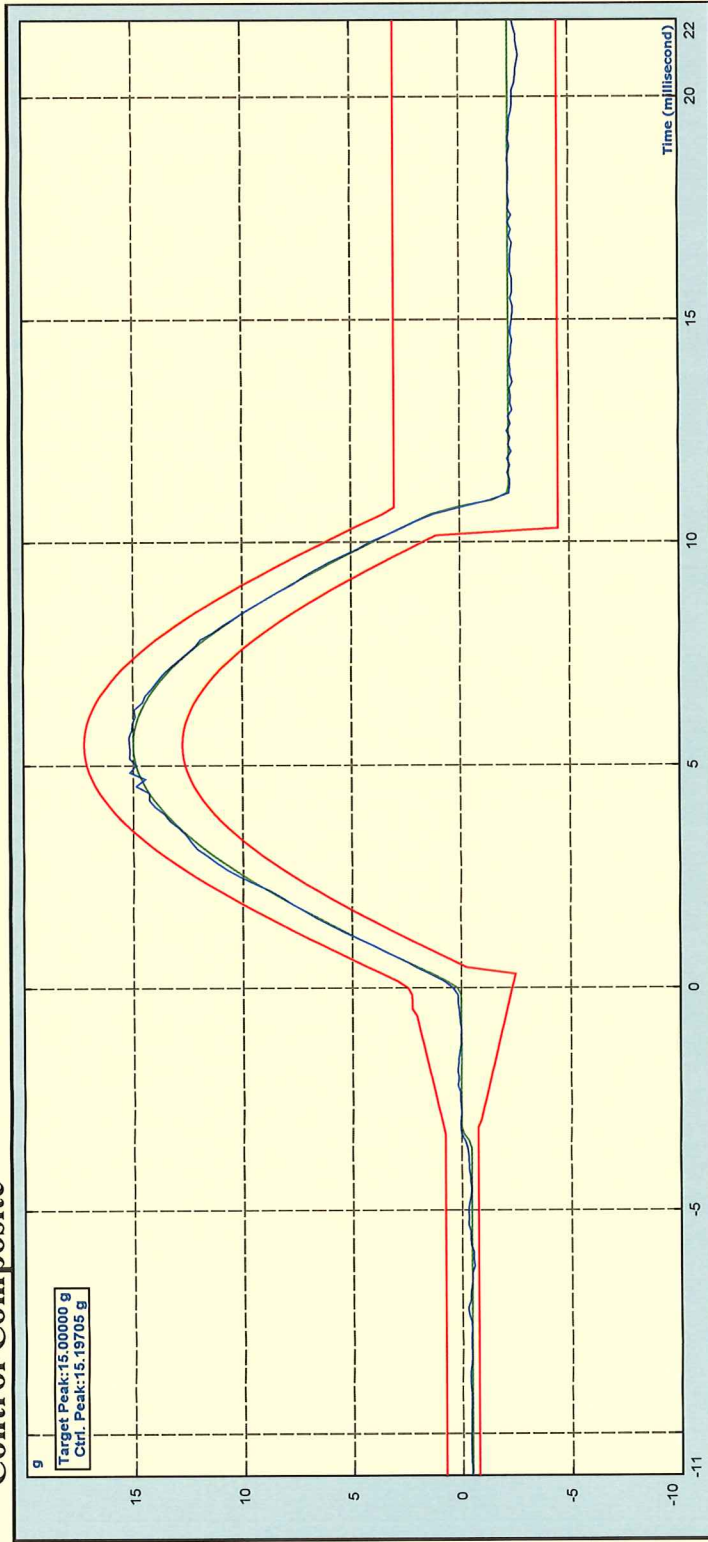


+Y axis - shock test

Test Name: HS 15 g 11 ms[VCS (Shock)]

Test saved at: Sep-26-2016, 15:04:32

Control Composite



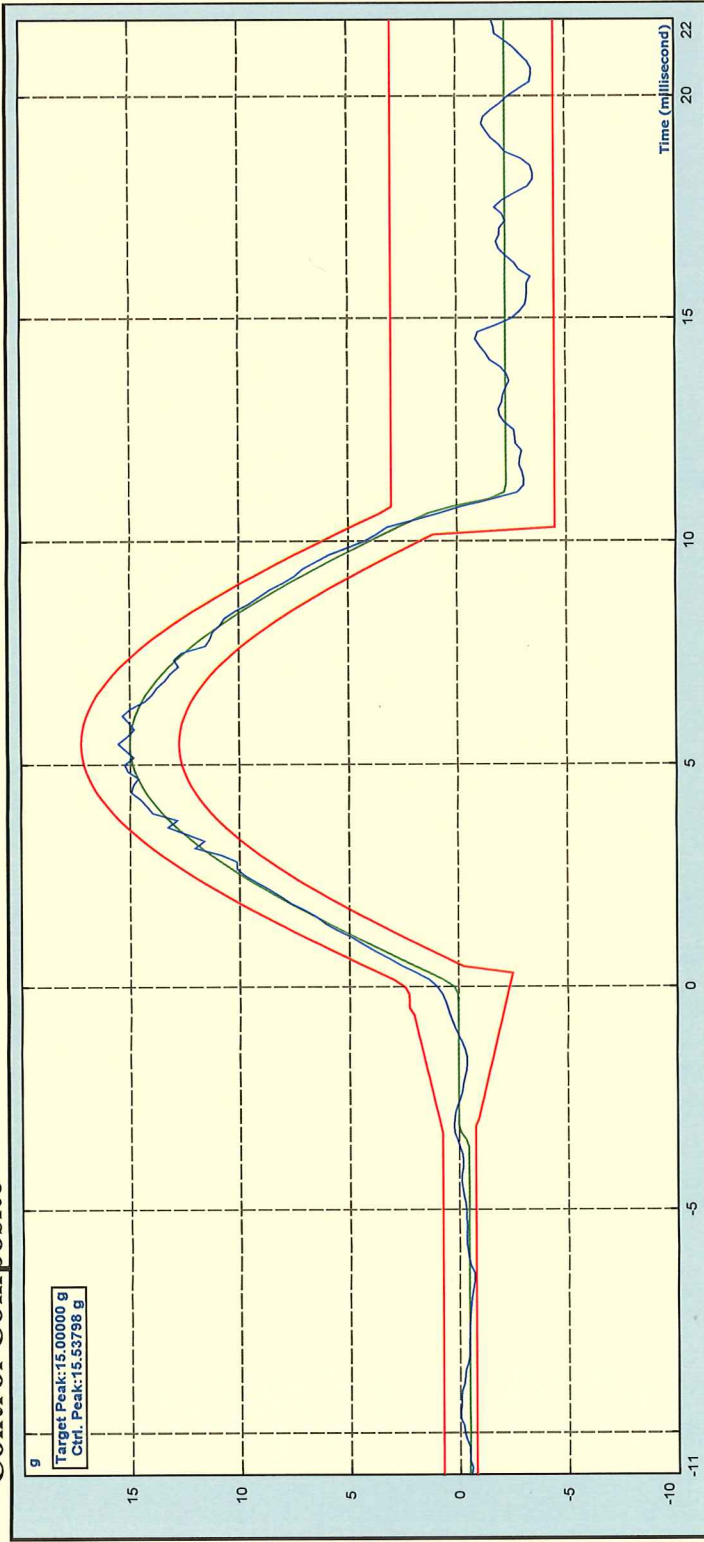
Level: 100.00 %	Drive Pk: 2.547V	Est. Disp.: 14.57 mm Pk-Pk
Velocity Pk: 571.1 mm/s	Control Pk: 15.20 g	Target Pk: 15.00 g
Control RMS: 1.614 g	Remaining: 0.0	Total Elapsed: 21.0
Full Level Elapsed: 3.0	Pulse width: 11.00 ms	Measured Pulse width: 11.70464(ms)
Control Displacement: 14.56849 PkPk mm		
Control Velocity: 571.11812 Pk mm/s	Block T / Size: 0.64 Seconds / 4096	
dT: 0.00015625 Seconds	Sampling Rate : 6400.00 Hz fs	Frequency Range (fa): 2500.00 Hz

+Z axis - shock test

Test Name: HS 15 g 11 ms[VCS (Shock)]

Test saved at: Sep-26-2016, 15:04:32

Control Composite



Level: 100.00 %	Drive Pk: 2.269V	Est. Disp. : 14.59 mm Pk-Pk
Velocity Pk: 568.2 mm/s	Control Pk: 15.54 g	Target Pk: 15.00 g
Control RMS: 1.613 g	Remaining: 0.0	Total Elapsed: 21.0
Full Level Elapsed: 3.0	Pulse width: 11.00 ms	Measured Pulse width: 11.84282(ms)
Control Displacement: 14.58867 PkPk mm		
Control Velocity: 568.19135 Pk mm/s	Block T / Size: 0.64 Seconds / 4096	
dT: 0.00015625 Seconds	Sampling Rate : 6400.00 Hz fs	Frequency Range (fa): 2500.00 Hz





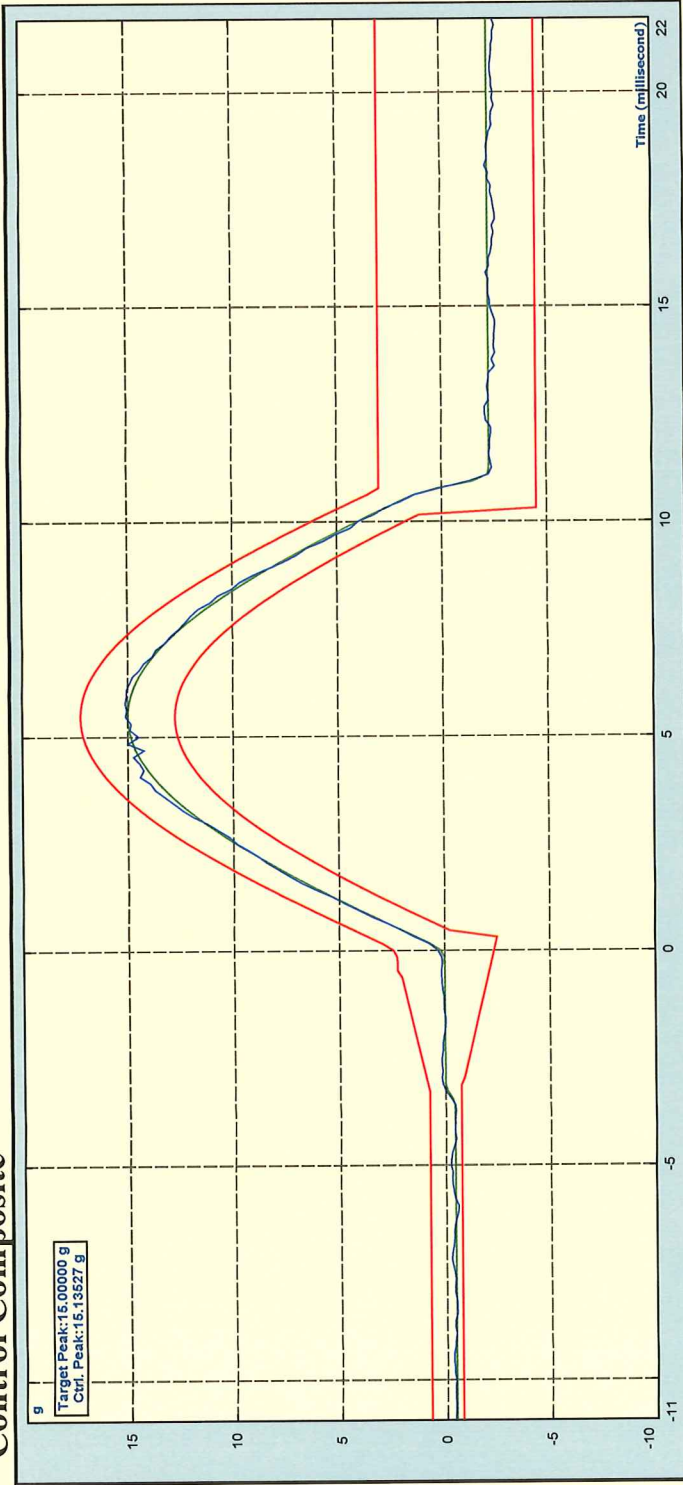
-X axis - shock test Test

Sep-26-2016, 16:04:14

Test Name: HS 15 g 11 ms[VCS (Shock)]

Test saved at: Sep-26-2016, 15:04:32

Control Composite



Level: 100.00 %

Velocity Pk: 570.9 mm/s

Control RMS: 1.614 g

Full Level Elapsed: 3.0

Control Displacement: 14.55509 PkPk mm

Control Velocity: 570.85961 Pk mm/s Block T / Size: 0.64 Seconds / 4096

dT: 0.00015625 Seconds

Est. Disp. : 14.56 mm Pk-Pk

Target Pk: 15.00 g

Total Elapsed: 21.0

Measured Pulse width: 12.31342(ms)

Drive Pk: 2.599V

Control Pk: 15.14 g

Remaining: 0.0

Pulse width: 11.00 ms

Block T / Size: 0.64 Seconds / 4096

Sampling Rate : 6400.00 Hz fs

Frequency Range (fa): 2500.00 Hz



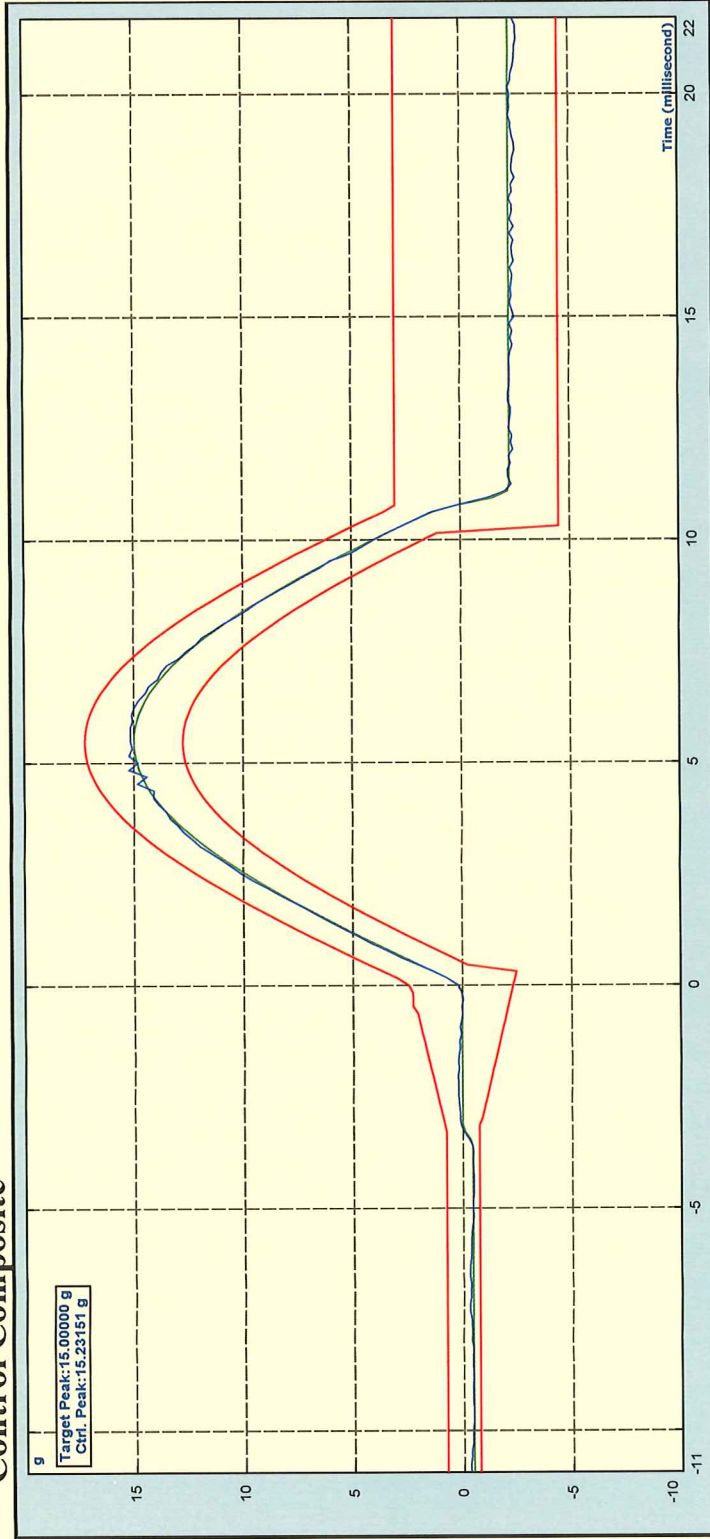


-Y axis - shock test Test

Test Name: HS 15 g 11 ms[VCS (Shock)]

Test saved at: Sep-26-2016, 15:04:32

Control Composite



Level: 100.00 %

Velocity Pk: 571.3 mm/s

Control RMS: 1.615 g

Full Level Elapsed: 3.0

Control Displacement: 14.54739 PkPk mm

Control Velocity: 571.25872 Pk mm/s Block T / Size: 0.64 Seconds / 4096

dT: 0.00015625 Seconds

Drive Pk: 2.616V

Control Pk: 15.23 g

Remaining: 0.0

Pulse width: 11.00 ms

Est. Disp.: 14.55 mm Pk-Pk

Target Pk: 15.00 g

Total Elapsed: 21.0

Measured Pulse width: 11.04818(ms)

Sampling Rate : 6400.00 Hz fs

Frequency Range (fa): 2500.00 Hz

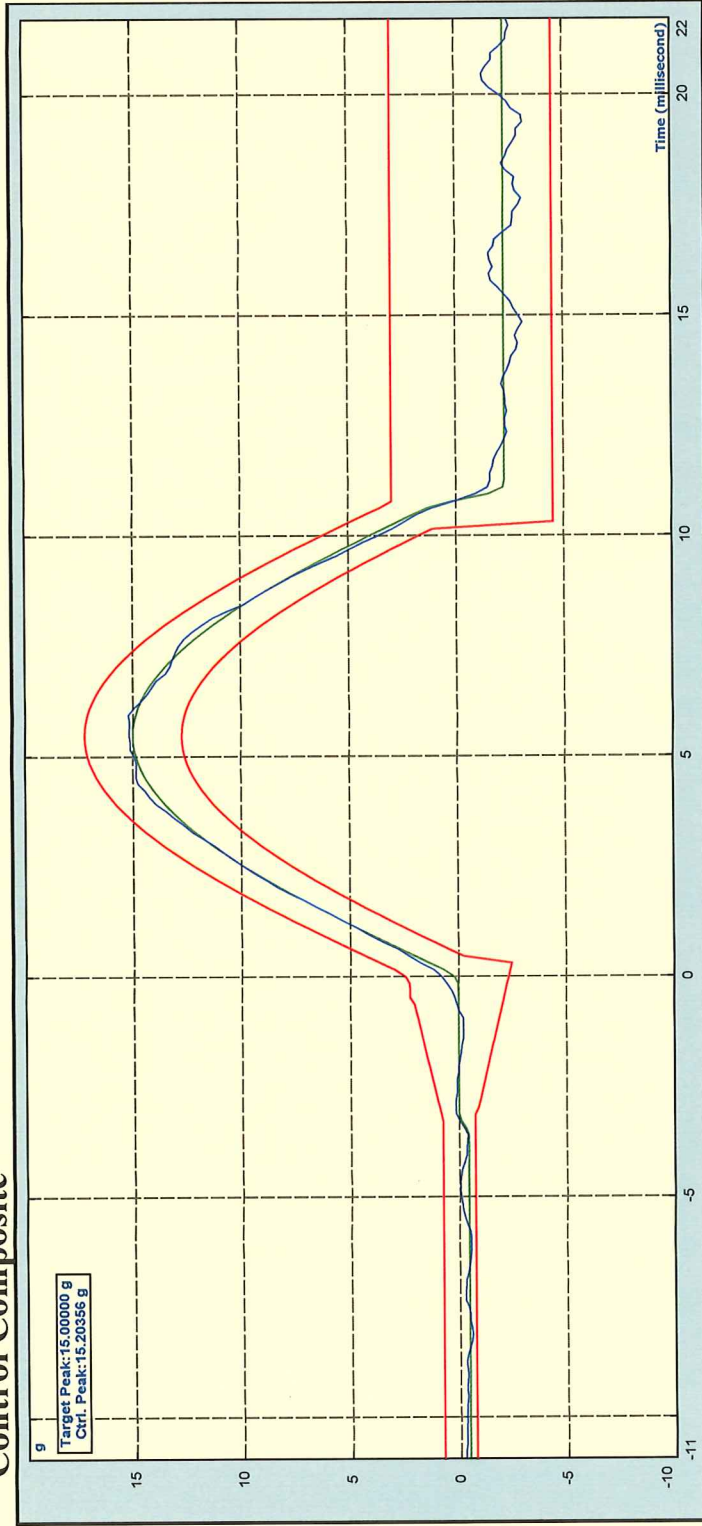


-Z axis - shock test Test

Test Name: HS 15 g 11 ms[VCS (Shock)]

Test saved at: Sep-26-2016, 15:04:32

Control Composite



Level: 100.00 %

Velocity Pk: 564.0 mm/s

Control RMS: 1.616 g

Full Level Elapsed: 3.0

Control Displacement: 14.69469 PkPk mm

Control Velocity: 564.04448 Pk mm/s Block T / Size: 0.64 Seconds / 4096

dT: 0.00015625 Seconds

Est. Disp. : 14.69 mm Pk-Pk

Target Pk: 15.00 g

Total Elapsed: 21.0

Measured Pulse width: 11.54701(ms)

Drive Pk: 2.286V

Control Pk: 15.20 g

Remaining: 0.0

Pulse width: 11.00 ms

Block T / Size: 0.64 Seconds / 4096

Sampling Rate : 6400.00 Hz fs

Frequency Range (fa): 2500.00 Hz-END-

