

**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](mailto:service@kdi.tw)**TESTING / INSPECTION REPORT**

REPORT NO : ST-170508-3

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 : TEP0700-IMX6 series

TEP1-i.MX6 UltraLite---TEP1-IMX6UL

Power Expansion-L112--- TXR-P1-12V-LAN1

DATE OF RECEIVED : 2017/05/04

DATE OF TESTED : 2017/05/04

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 11 pages, and no part of it may be abstracted or reproduced.

|                                                    |                                            |
|----------------------------------------------------|--------------------------------------------|
| Test Engineer : <i>Hsin Tai Chang</i>              |                                            |
| Approval Signatory :<br><i>2017.6.10 David Lee</i> | Laboratory Head :<br><i>Hsin Tai Chang</i> |

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E-mail:service@kdi.tw

## TESTING / INSPECTION REPORT

### TESTING EQUIPMENT :

1. Vibration Tester : KING DESIGN KD-9363EM-1000F2K-50N120,  
S/N : GUG02102091
2. Controller : DACTRON LASER USB, S/N : 12448370
3. Control Accelerometer : WILCOXON RESEARCH WR-784A, S/N : 23116

### TEST ENVIRONMENT :

- Temperature : 25°C (25±10°C)
- Relative Humidity : 60%RH (50±25% RH)

### SPECIMEN :

Model/(S/N) : TEP0700-IMX6 series  
TEP1-i.MX6 UltraLite---TEP1-IMX6UL  
Power Expansion-L112--- TXR-P1-12V-LAN1

Quantity : 1 unit

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## TESTING / INSPECTION REPORT

### 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

實驗室

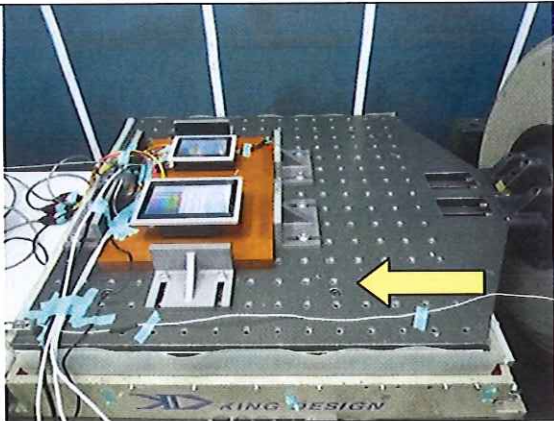
### TEST RESULT :

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

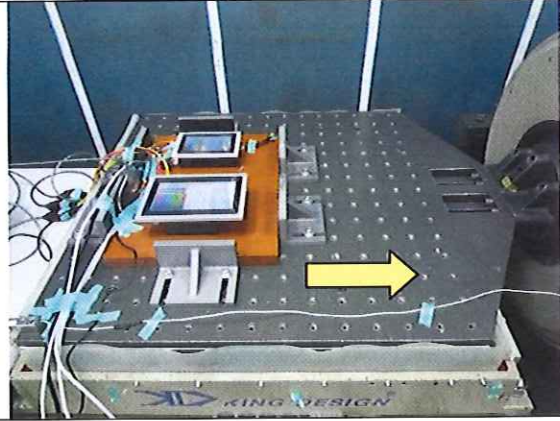
**TESTING / INSPECTION REPORT**

**Shock testing photos**

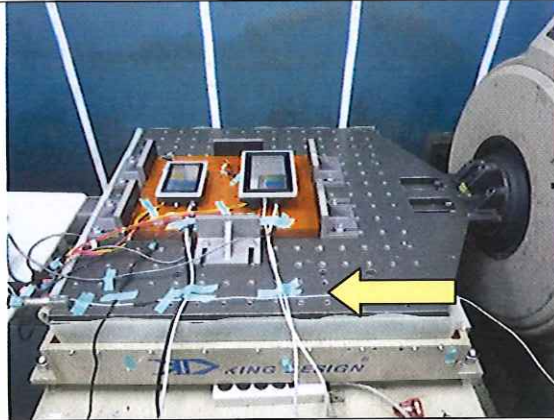
**+X axis**



**-X axis**



**+Y axis**



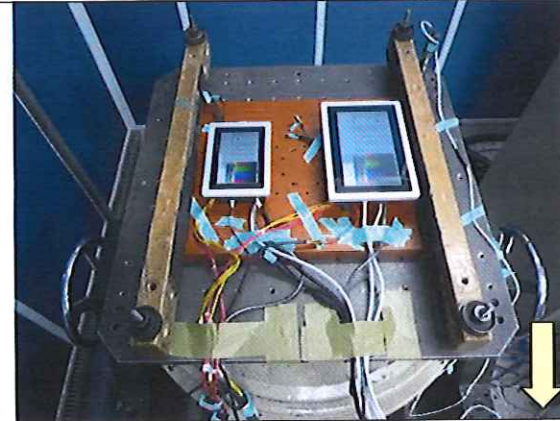
**-Y axis**



**+Z axis**



**-Z axis**



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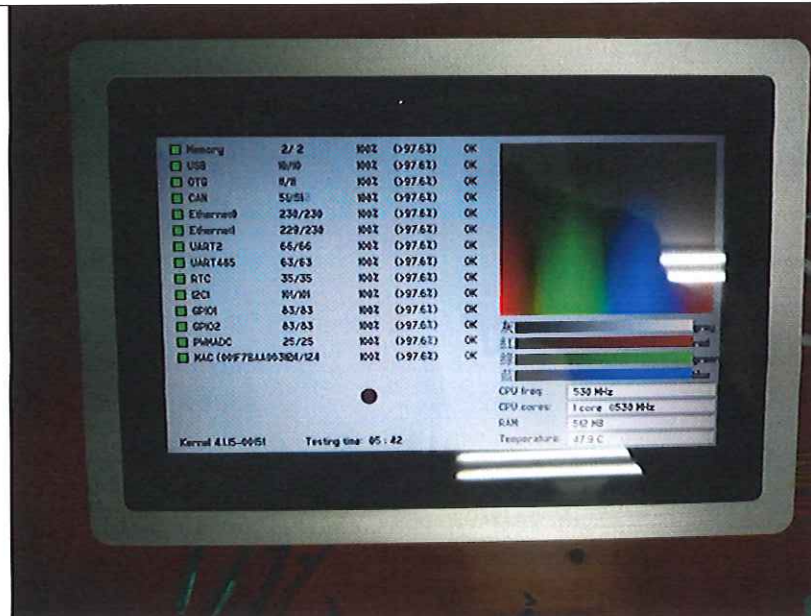
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## TESTING / INSPECTION REPORT

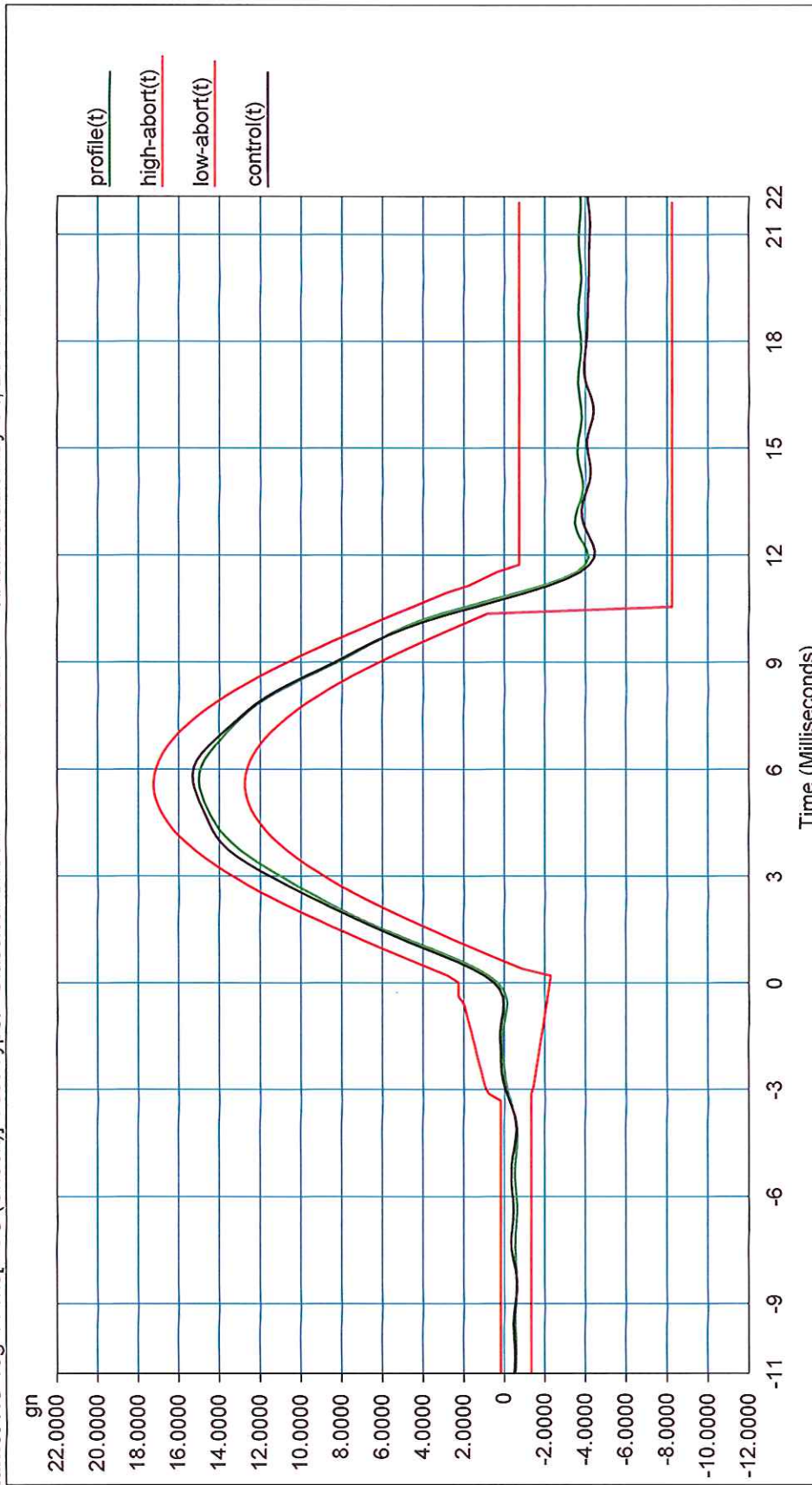
### Testing photos

**After test-1**

**After test-2**


+X axis - shock test

Test Name: HS 15g 11 ms[VCS (Shock)] Test Type: Classical Shock Run Folder: .\RunDefault May 04, 2017 12-57-12

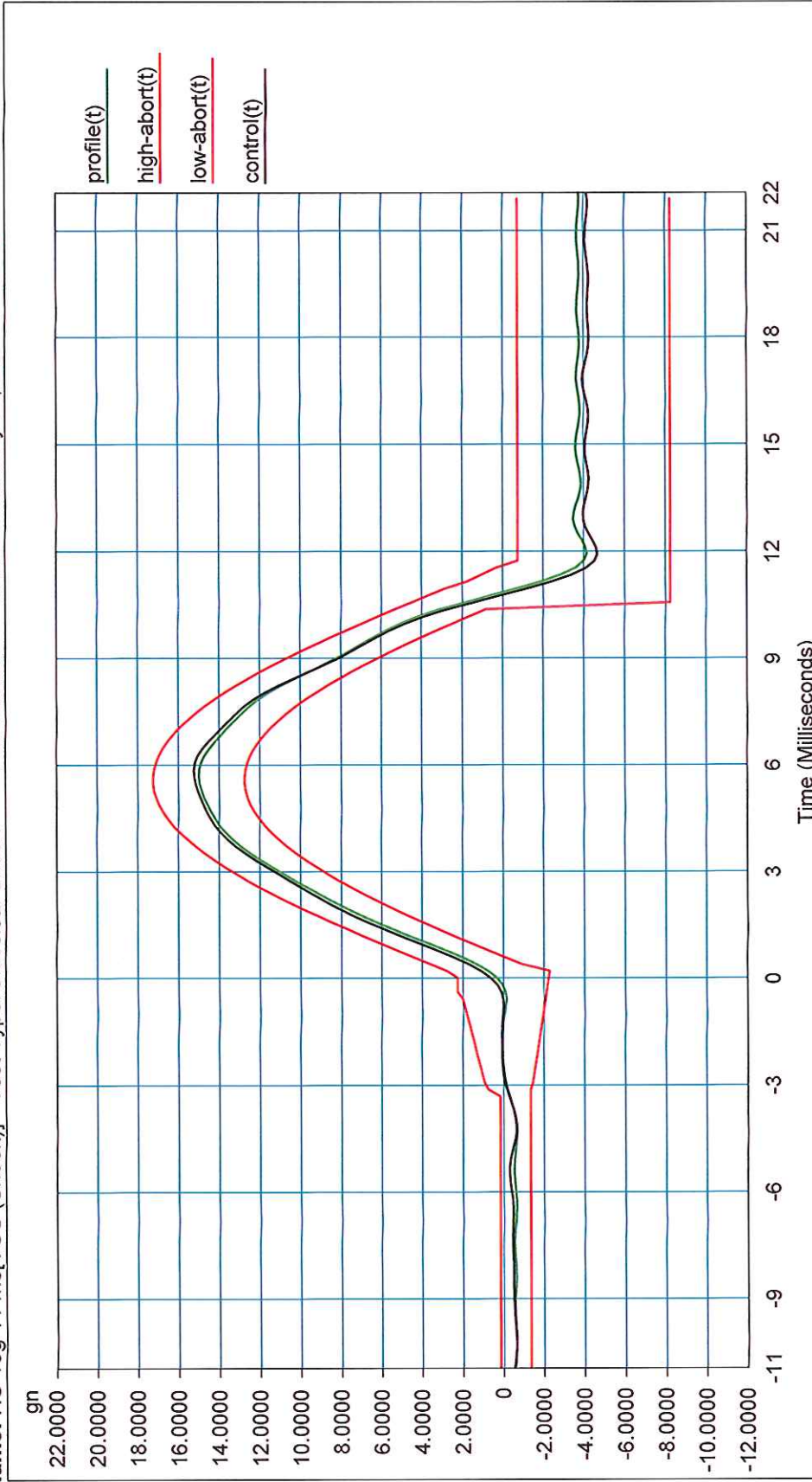


Level: 100 % Block Size: 2048 Elapsed Pulses:7  
 Frame Time: 0.40000 Seconds Control Peak: 15.313007 Control RMS: 2.245765 Full Level Elapsed Pulses: 3  
 dT: 0.000195 Seconds Demand Peak: 14.999999 Demand RMS: 2.156666 Remaining Pulses: 0  
 Pulse Type: Half Sine Amplitude: 14.999999 Pulse Width: 11.000000 ms

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+Y axis - shock test

Test Name: HS 15g 11 ms[VCS (Shock)] Test Type: Classical Shock Run Folder: .\RunDefault May 04, 2017 11-37-12

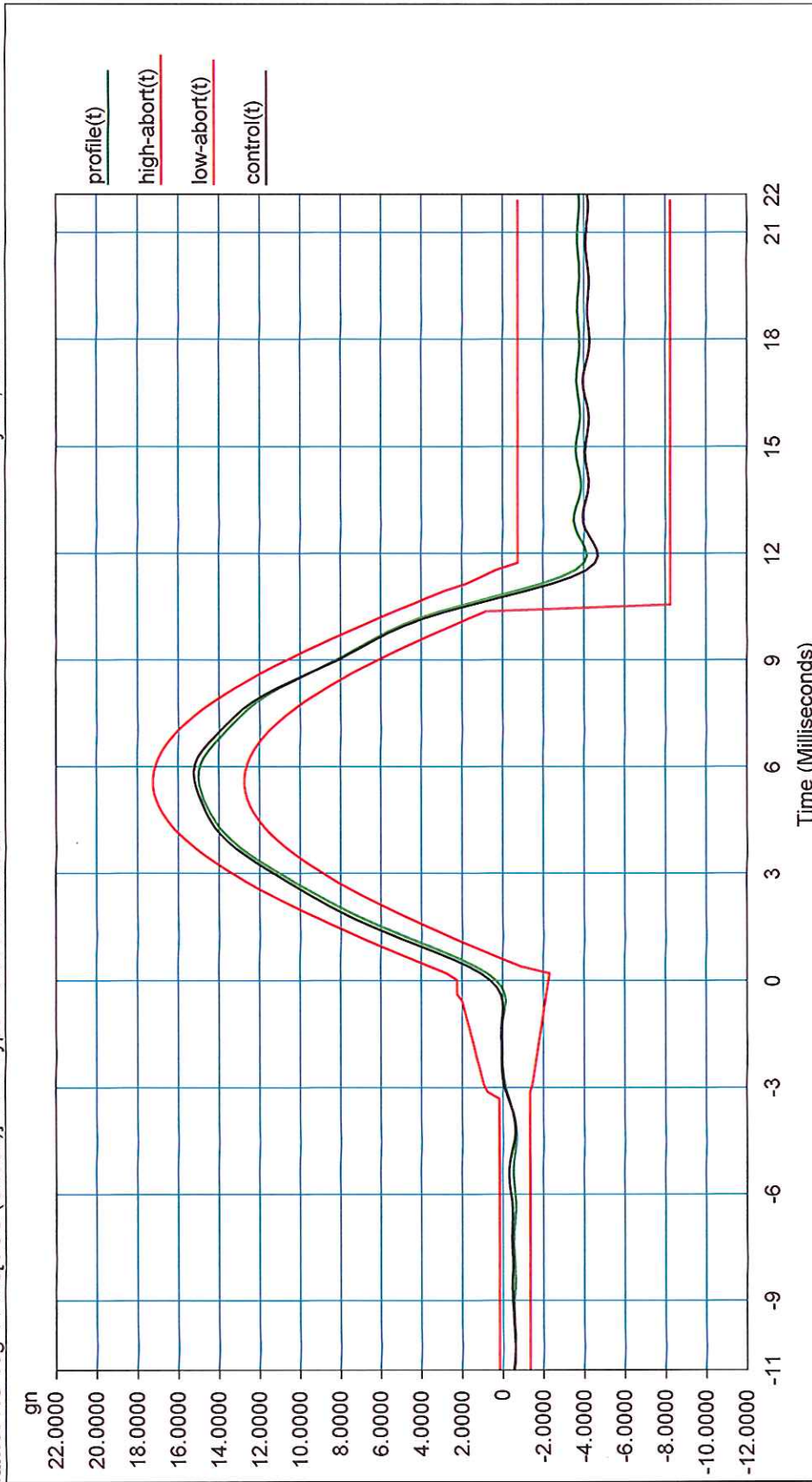


Level: 100 % Block Size: 2048 Elapsed Pulses: 7  
 Frame Time: 0.40000 Seconds Control Peak: 16.470039 Control RMS: 2.249441 Full Level Elapsed Pulses: 3  
 dT: 0.000195 Seconds Demand Peak: 14.999999 Demand RMS: 2.168497 Remaining Pulses: 0  
 Pulse Type: Half Sine Amplitude: 14.999999 Pulse Width: 11.000000 ms



+Z axis - shock test

Test Name: HS 15g 11 ms[VCS (Shock)] Test Type: Classical Shock Run Folder: .RunDefault May 04, 2017 14-27-24



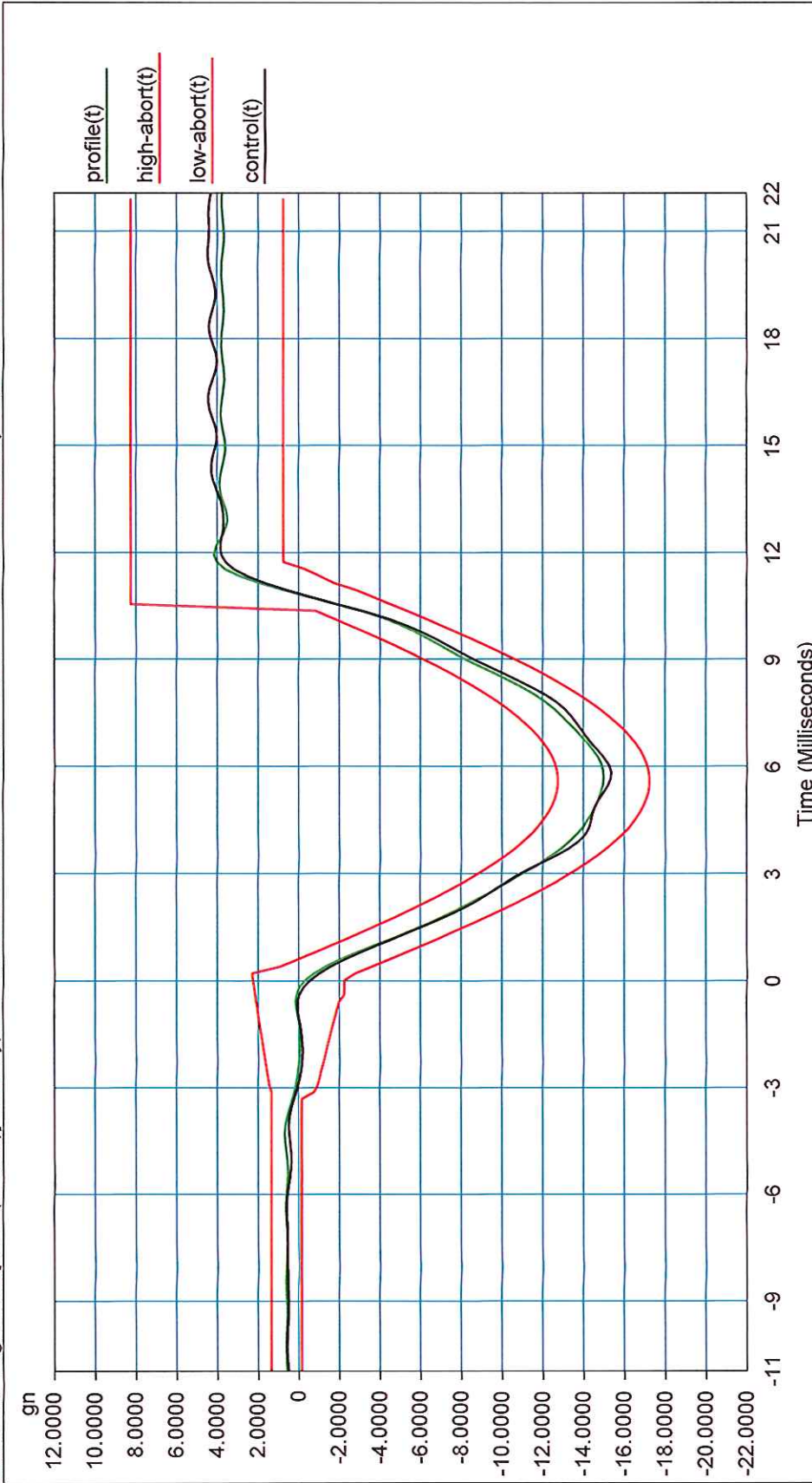
Level: 100 % Block Size: 2048 Elapsed Pulses: 7  
 Frame Time: 0.400000 Seconds Control Peak: 15.240014 Control RMS: 2.234565 Full Level Elapsed Pulses: 3  
 dT: 0.000195 Seconds Demand Peak: 14.999999 Demand RMS: 2.156666 Remaining Pulses: 0  
 Pulse Type: Half Sine Amplitude: 14.999999 Pulse Width: 11.000000 ms





-X axis - shock test

Test Name: HS 15g 11 ms[VCS (Shock)] Test Type: Classical Shock Run Folder: .\RunDefault May 04, 2017 12-57-12

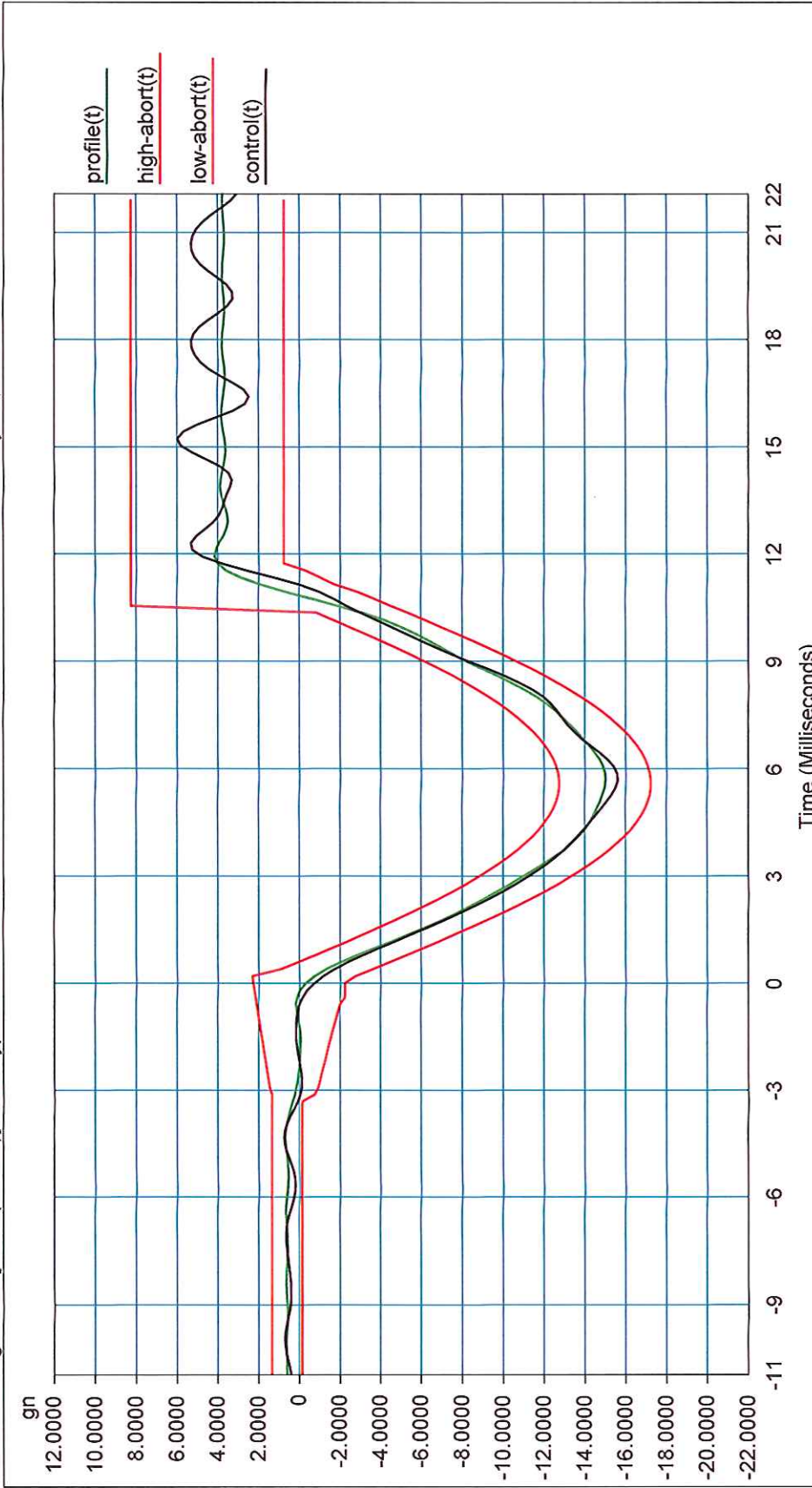


Level: 100 % Block Size: 2048 Elapsed Pulses:7  
 Frame Time: 0.400000 Seconds Control Peak: 15.346950 Control RMS: 2.238883 Full Level Elapsed Pulses: 3  
 dT: 0.000195 Seconds Demand Peak: 14.999999 Demand RMS: 2.156666 Remaining Pulses: 0  
 Pulse Type: Half Sine Amplitude: 14.999999 Pulse Width: 11.000000 ms



- Y axis - shock test

Test Name: HS 15g 11 ms[VCS (Shock)] Test Type: Classical Shock Run Folder: .RunDefault May 04, 2017 11-37-12

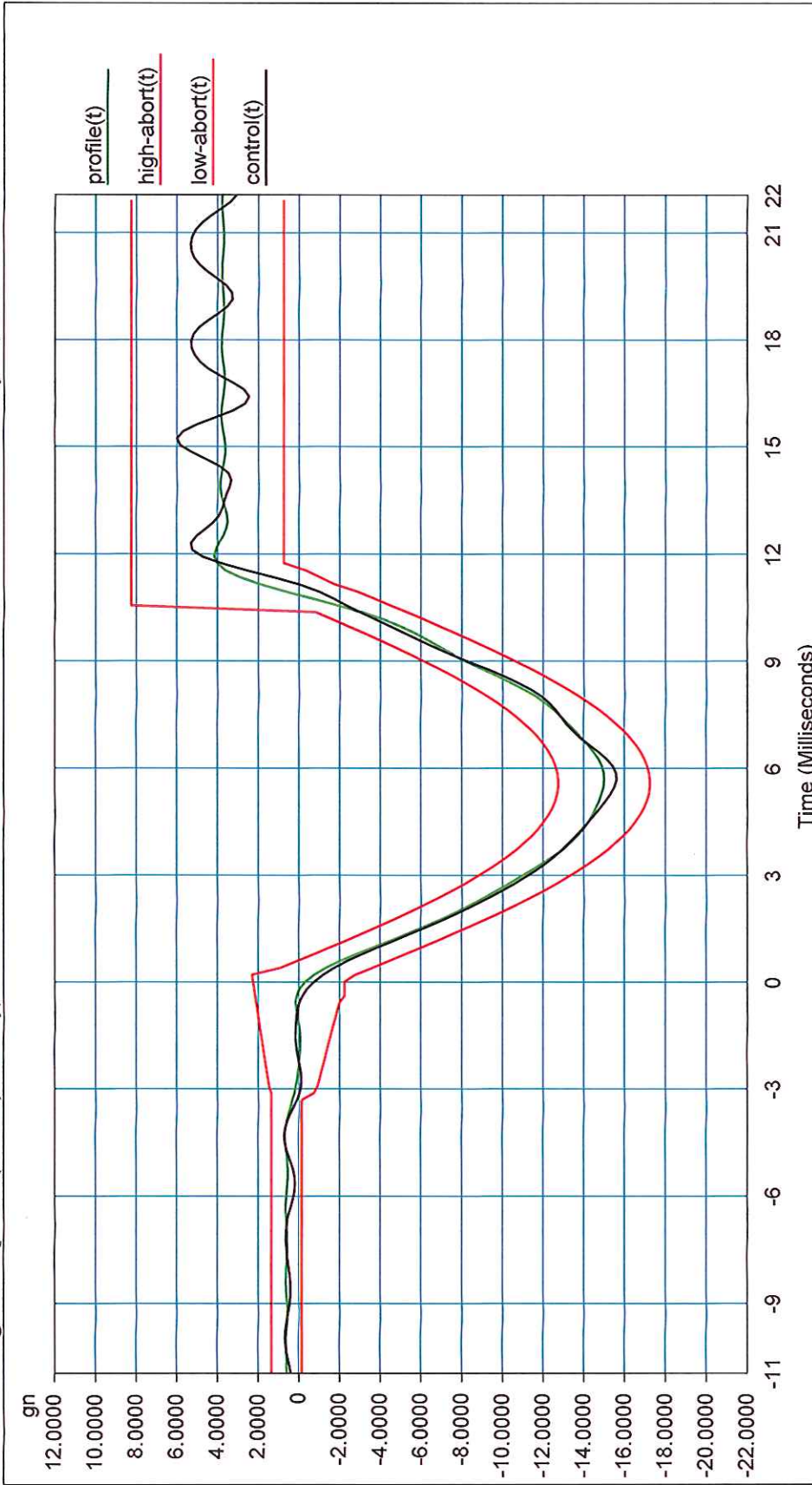


Level: 100 % Block Size: 2048 Elapsed Pulses: 7  
 Frame Time: 0.400000 Seconds Control Peak: 18.034822 Control RMS: 2.249808 Full Level Elapsed Pulses: 3  
 dT: 0.000195 Seconds Demand Peak: 14.999999 Demand RMS: 2.168497 Remaining Pulses: 0  
 Pulse Type: Half Sine Amplitude: 14.999999 Pulse Width: 11.000000 ms



-Z axis - shock test

Test Name: HS 15g 11 ms[VCS (Shock) Test Type: Classical Shock Run Folder: .\RunDefault May 04, 2017 14-27-24



Level: 100 % Block Size: 2048 Elapsed Pulses: 7  
 Frame Time: 0.400000 Seconds Control Peak: 15.604080 Control RMS: 2.237137 Full Level Elapsed Pulses: 3  
 dT: 0.000195 Seconds Demand Peak: 14.999999 Demand RMS: 2.156666 Remaining Pulses: 0  
 Pulse Type: Half Sine Amplitude: 14.999999 Pulse Width: 11.000000 ms-- END

