

## TESTING / INSPECTION REPORT

DATE : March 13, 2006  
REPORT NO : ST-060313-2

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SPECIMEN : Onyx-215

TEST / INSPECTION ITEMS : Shock Test (See Page 2)

### REMARKS :

- The results only apply to the device under test.
- This report is 9 pages, and no part of it may be abstracted or reproduced.
- Attached pages are controlling pulse of shock test.

Test Engineer : <i>King Kuo</i>	
Approved by : <i>David Lee</i>	Laboratory Head : <i>Ching Chan</i>



## TESTING / INSPECTION REPORT

### TESTING EQUIPMENT :

- 1.Vibration Tester : KING DESIGN(KD-9363EM-600F2K-50N120,  
S/N : KDS11054986)
- 2.Controller : DACTRON (FRONT-End Box, S/N:4529465)
- 3.Control Accelerometer : Wilcoxon Research (WR-777 , S/N:3425)

### TEST ENVIRONMENT :

- Temperature : 20±2°C
- Humidity : 70±20% RH

### SPECIMEN :

- Model : Onyx-215
- Quantity : 1 piece

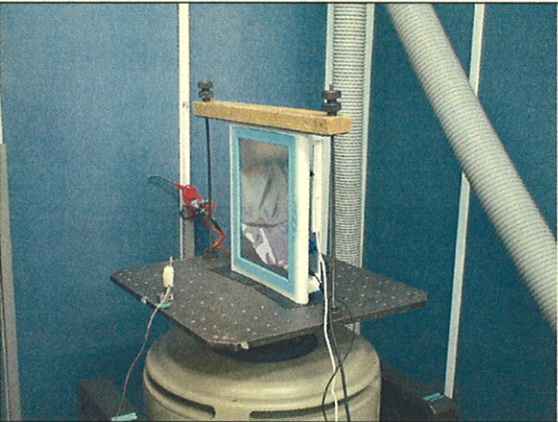
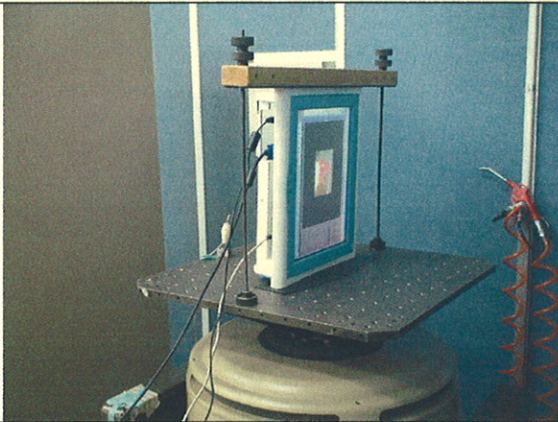
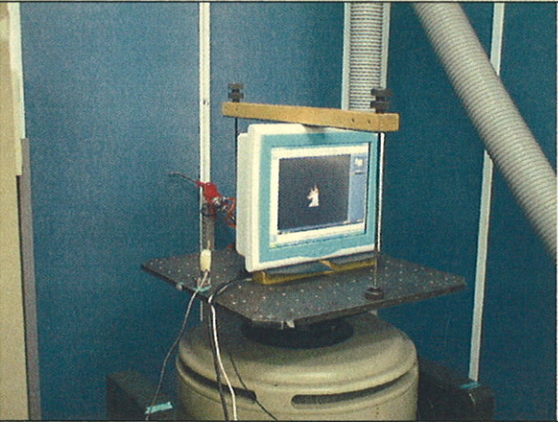
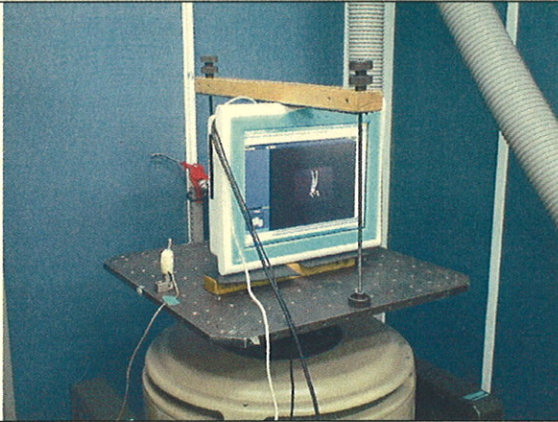
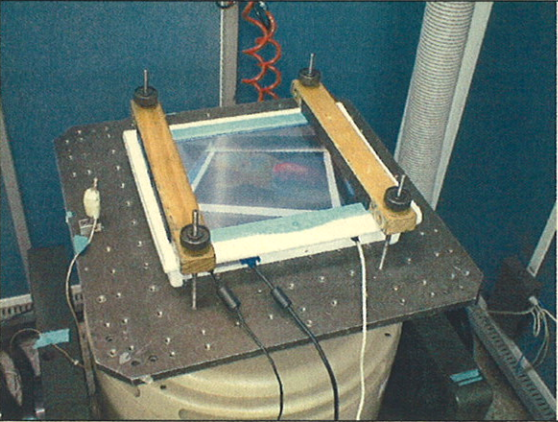
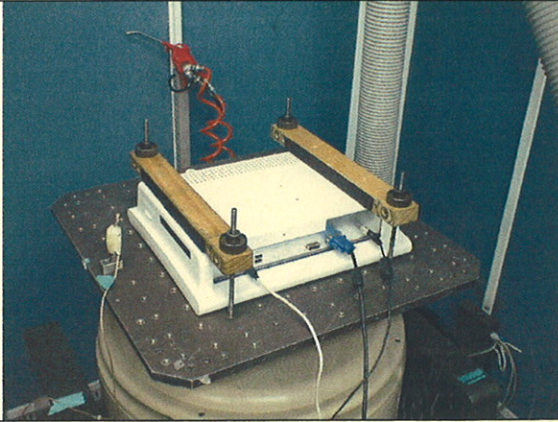
### SHOCK TEST SPECIFICATION :

- Wave Form : Half sine wave
- Acceleration : 20 g
- Duration Time : 11 ms
- No. of Shock : Each axis 3 times
- Shock Direction : ±X, ±Y, ±Z axis

### TEST RESULT :

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

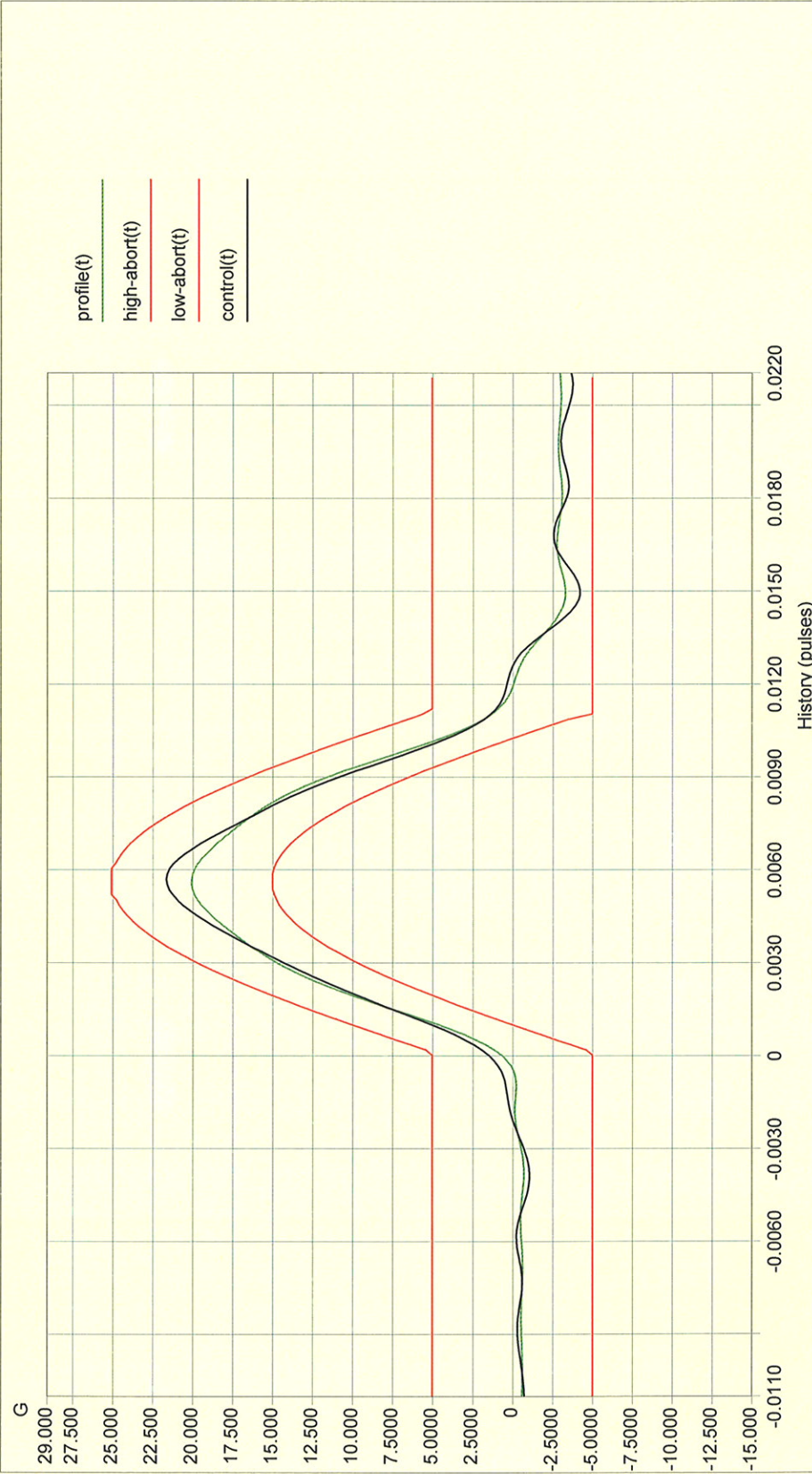
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Testing photos	
<b>AXIS X</b>	<b>AXIS -X</b>
	
<b>AXIS Y</b>	<b>AXIS -Y</b>
	
<b>AXIS Z</b>	<b>AXIS -Z</b>
	

Axis X

Project File Name: 研揚 20g 11ms.prj

Profile Name: 20G 11mSec Test Type: Classical Shock Run Folder: .\Run Feb 24, 2006 11-17-31

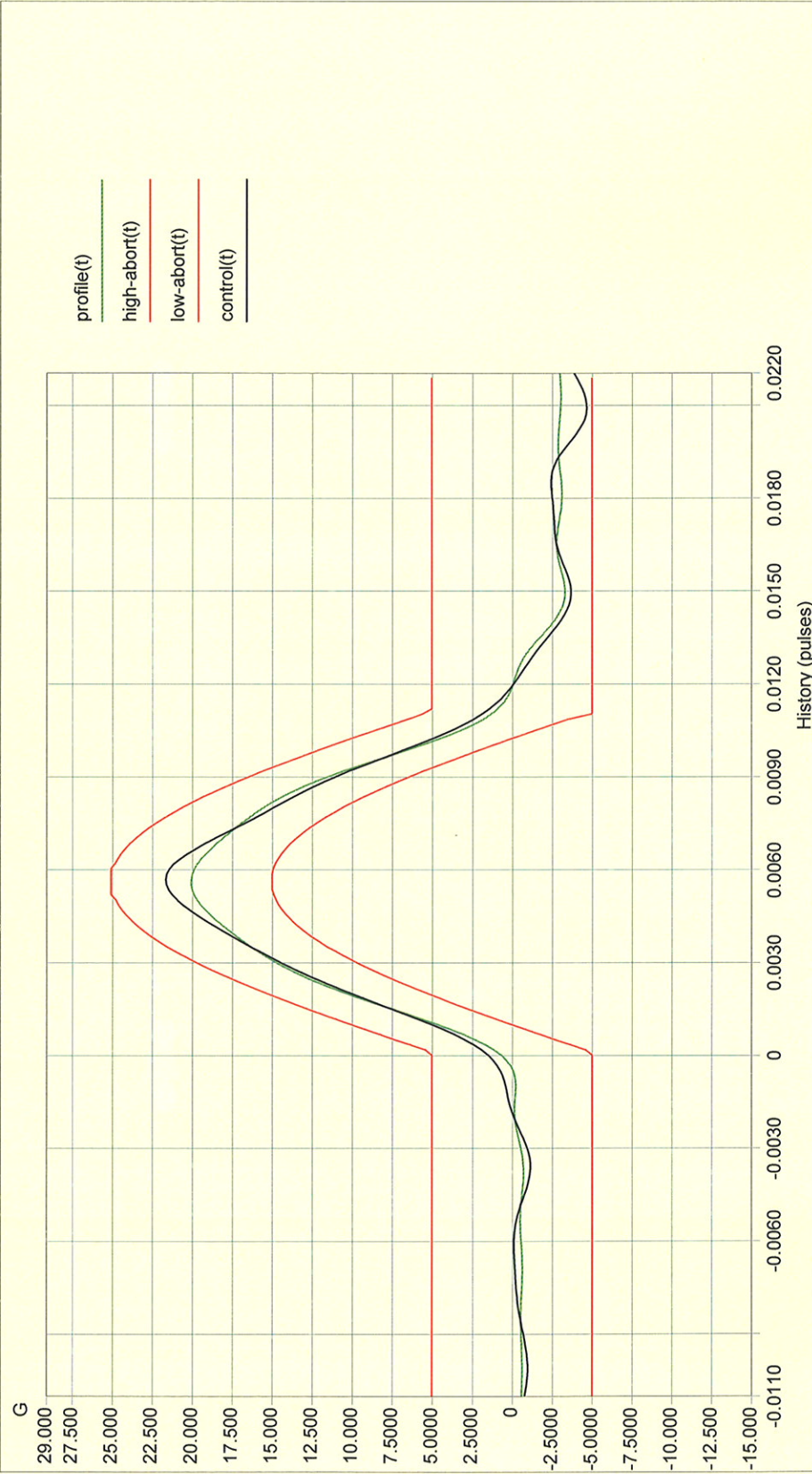


Level: 100 % Block Size: 2048 Elapsed Pulses: 12 Frame Time: 0.341333 Seconds Control Peak: 21.551506 G  
Control RMS: 2.799609 G Full Level Elapsed Pulses: 3 dT: 0.000167 Seconds Demand Peak: 20.000000 G  
Demand RMS: 2.682122 G Remaining Pulses: 0 Pulse Type: Half Sine Amplitude: 20.000000 G Pulse Width: 11.000001 ms  
Data saved at 11:17:47 AM, Friday, February 24, 2006 Report created at 11:17:48 AM, Friday, February 24, 2006

Axis -X

Project File Name: 研揚 20g 11ms.prj

Profile Name: 20G 11mSec Test Type: Classical Shock Run Folder: .\Run Feb 24, 2006 11-19-15

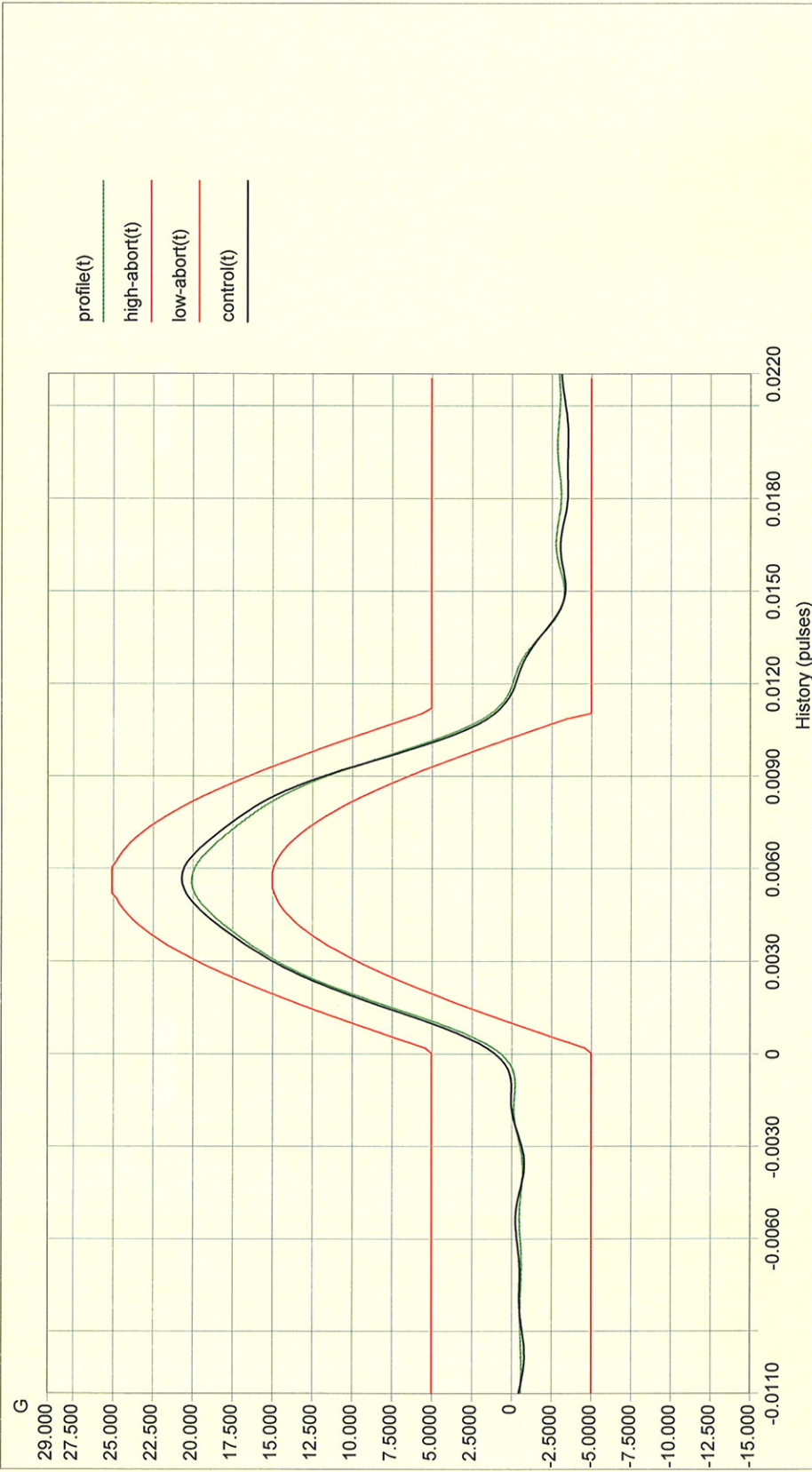


Level: 100 % Block Size: 2048 Elapsed Pulses: 12 Frame Time: 0.341333 Seconds Control Peak: 21.555145 G  
Control RMS: 2.802092 G Full Level Elapsed Pulses: 3 dT: 0.000167 Seconds Demand Peak: 20.000000 G  
Demand RMS: 2.682122 G Remaining Pulses: 0 Pulse Type: Half Sine Amplitude: 20.000000 G Pulse Width: 11.000001 ms  
Data saved at 11:19:32 AM, Friday, February 24, 2006 Report created at 11:19:32 AM, Friday, February 24, 2006

Axis Y

Project File Name: 研揚 20g 11ms.prj

Profile Name: 20G 11mSec Test Type: Classical Shock Run Folder: .\Run Feb 24, 2006 11-10-59



Level: 100 %

Block Size: 2048

Elapsed Pulses: 12

Frame Time: 0.341333 Seconds

Control Peak: 20.603209 G

Control RMS: 2.796488 G

Full Level Elapsed Pulses: 3

dT: 0.000167 Seconds

Demand Peak: 20.000000 G

Demand RMS: 2.682122 G

Remaining Pulses: 0

Pulse Type: Half Sine

Amplitude: 20.000000 G

Pulse Width: 11.000001 ms

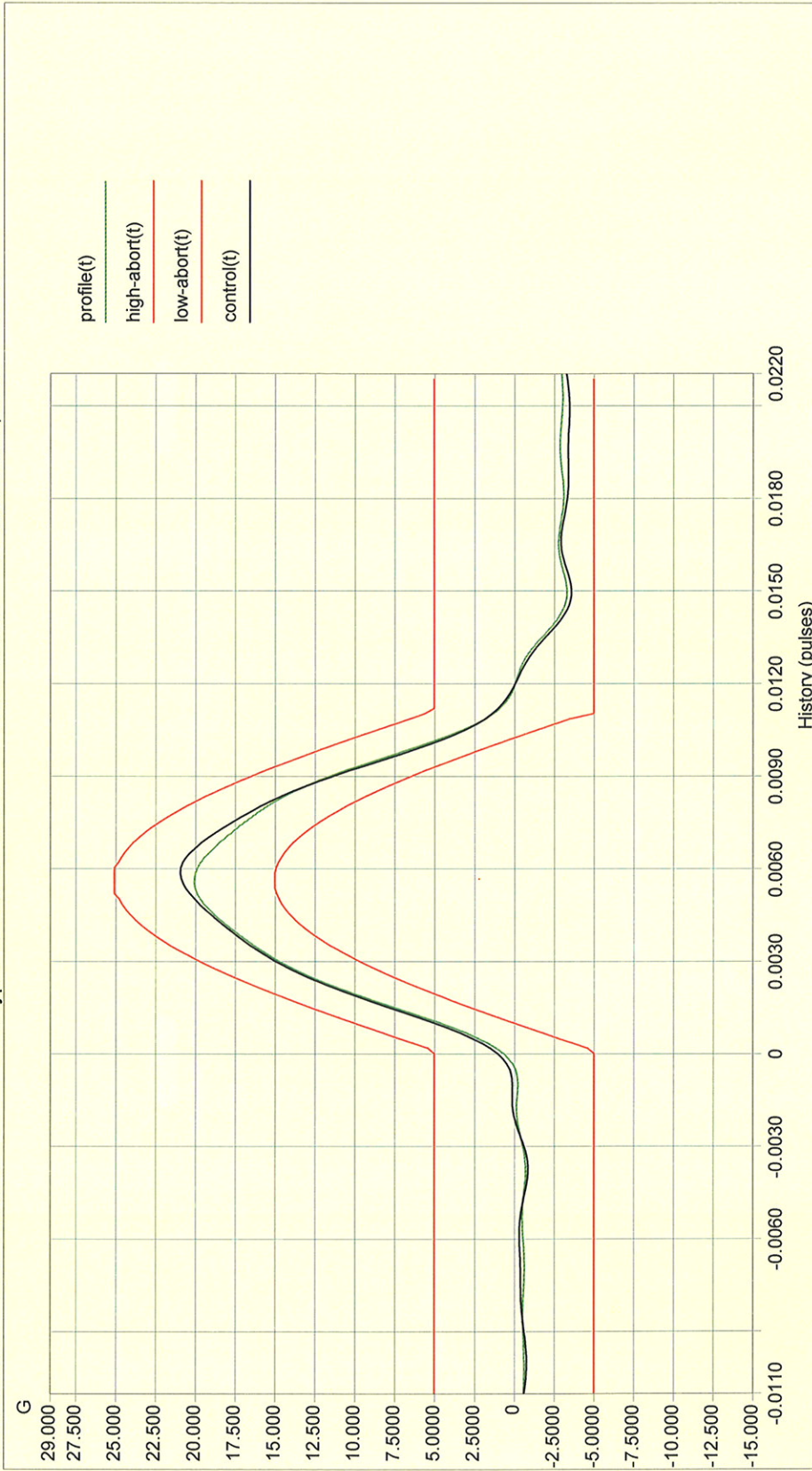
Data saved at 11:11:16 AM, Friday, February 24, 2006

Report created at 11:11:16 AM, Friday, February 24, 2006

Axis -Y

Project File Name: 研揚 20g 11ms.prj

Profile Name: 20G 11mSec Test Type: Classical Shock Run Folder: .\Run Feb 24, 2006 11-13-58



Level: 100 % Block Size: 2048 Elapsed Pulses: 12 Frame Time: 0.341333 Seconds Control Peak: 20.841980 G

Control RMS: 2.797963 G Full Level Elapsed Pulses: 3 dT: 0.000167 Seconds Demand Peak: 20.000000 G

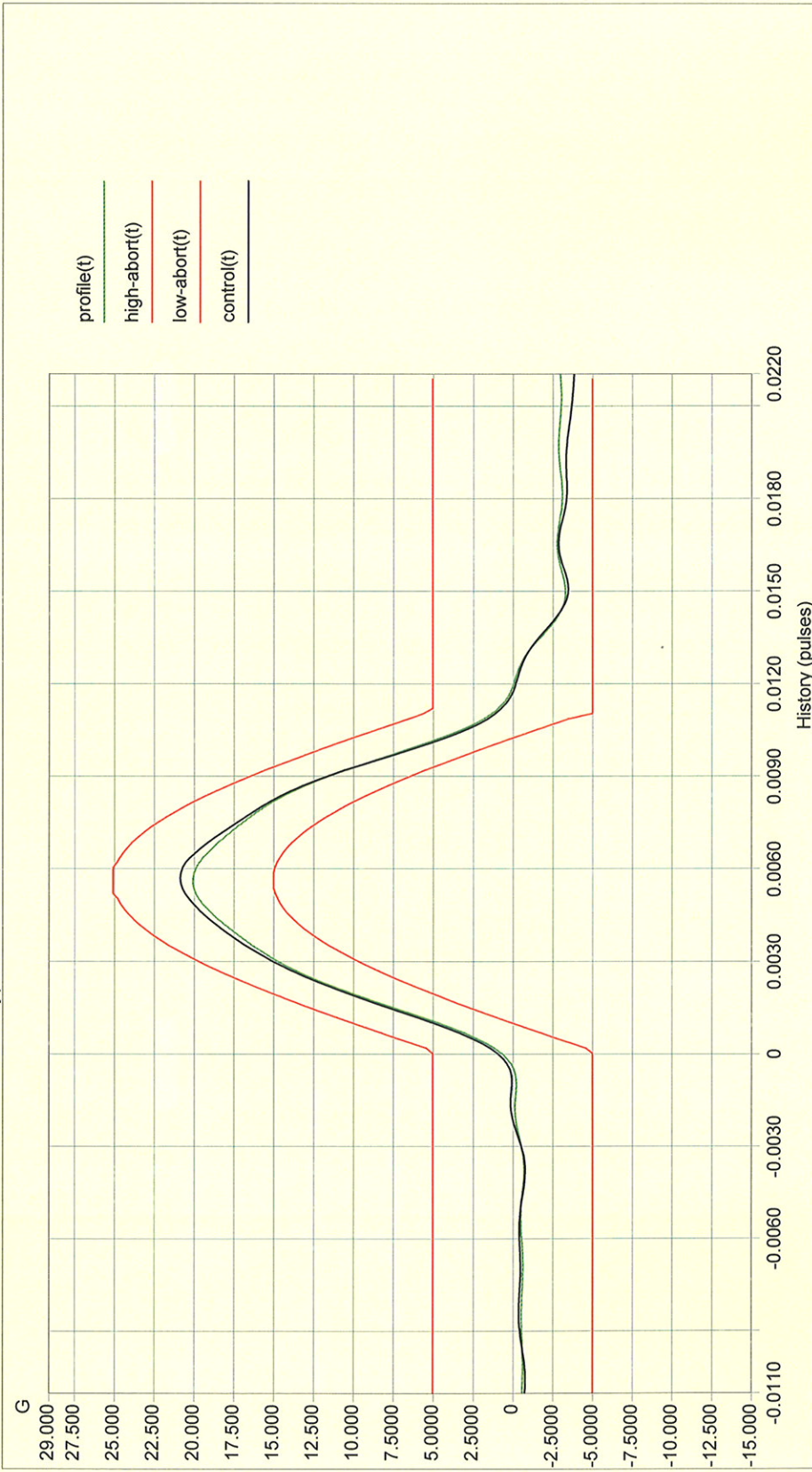
Demand RMS: 2.682122 G Remaining Pulses: 0 Pulse Type: Half Sine Amplitude: 20.000000 G Pulse Width: 11.000001 ms

Data saved at 11:14:14 AM, Friday, February 24, 2006 Report created at 11:14:15 AM, Friday, February 24, 2006

Axis Z

Project File Name: 研揚 20g 11ms.prj

Profile Name: 20G 11mSec Test Type: Classical Shock Run Folder: .\Run Feb 24, 2006 10-58-45



Level: 100 %

Block Size: 2048

Elapsed Pulses: 12

Frame Time: 0.341333 Seconds

Control Peak: 20.774704 G

Control RMS: 2.798126 G

Full Level Elapsed Pulses: 3

dt: 0.000167 Seconds

Demand Peak: 20.000000 G

Demand RMS: 2.682122 G

Remaining Pulses: 0

Pulse Type: Half Sine

Amplitude: 20.000000 G

Pulse Width: 11.000001 ms

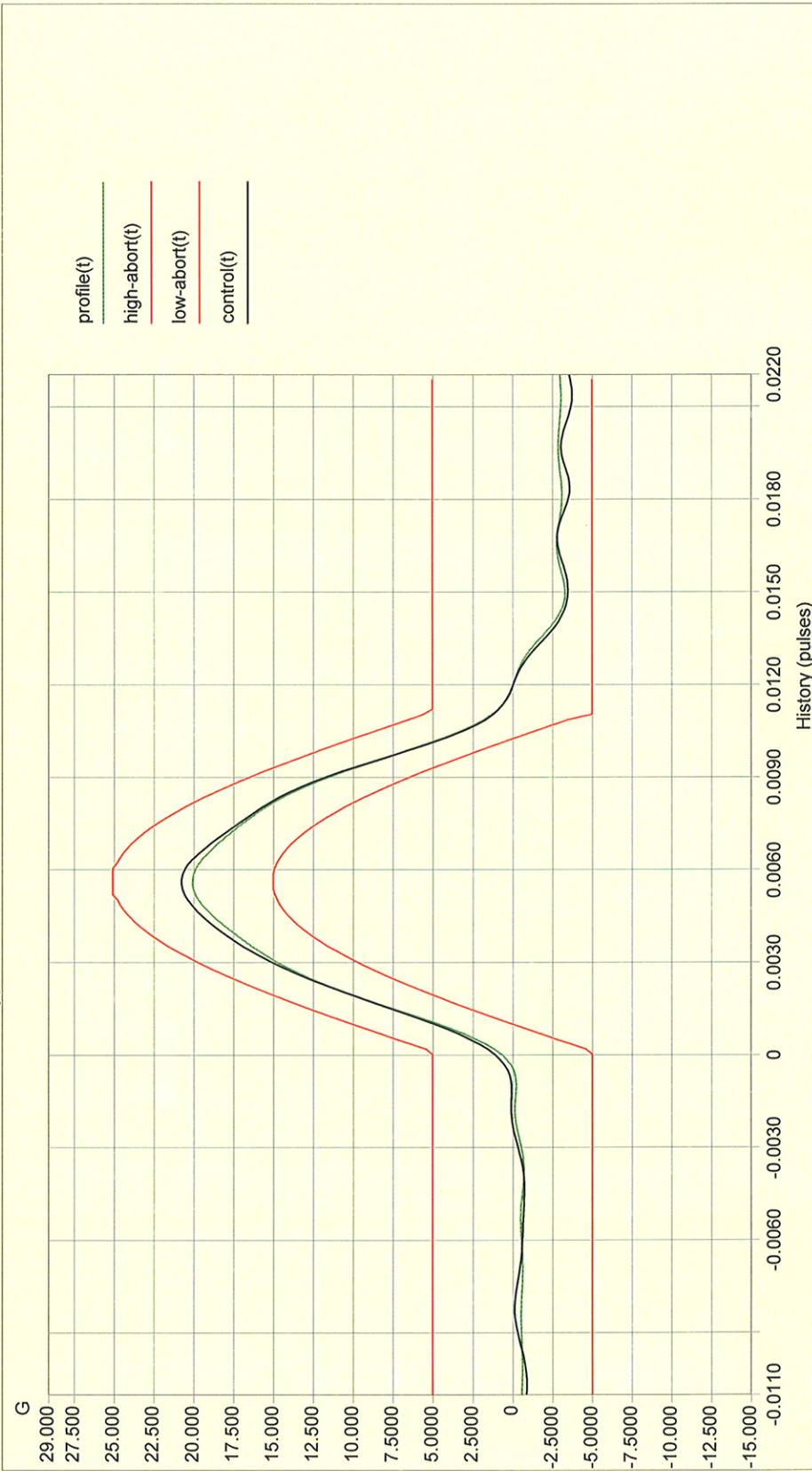
Data saved at 10:59:21 AM, Friday, February 24, 2006 Report created at 10:59:21 AM, Friday, February 24, 2006



Axis -Z

Project File Name: 研揚 20g 11ms.prj

Profile Name: 20G 11mSec Test Type: Classical Shock Run Folder: .\Run Feb 24, 2006 11-01-59



Level: 100 %

Block Size: 2048

Elapsed Pulses: 12

Frame Time: 0.341333 Seconds

Control Peak: 20.674351 G

Control RMS: 2.793496 G

Full Level Elapsed Pulses: 3

dt: 0.000167 Seconds

Demand Peak: 20.000000 G

Demand RMS: 2.682122 G

Remaining Pulses: 0

Pulse Type: Half Sine

Amplitude: 20.000000 G

Pulse Width: 11.000001 ms

Data saved at 11:02:30 AM, Friday, February 24, 2006

Report created at 11:02:30 AM, Friday, February 24, 2006