

## TESTING / INSPECTION REPORT

DATE : March 02, 2004  
REPORT NO : ST-040302-2

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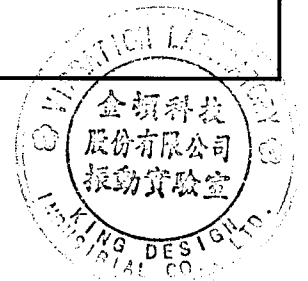
SPECIMEN : AWK-3501

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>Ben Huang</i>	
Approved by :	Laboratory Head :
<i>Dave Lee</i>	<i>Dennis Ting</i>



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### TESTING EQUIPMENT :

- |                          |   |
|--------------------------|---|
| 1. Shock Tester          | : KING DESIGN (KD-9363EM-1000F2K-50N120, S/N : GUG02102091) |
| 2. Controller            | : DACTRON (FRONT-End Box, S/N:7459933)                      |
| 3. Control Accelerometer | : Wilcoxon Research (WR-777 , S/N:4207)                     |

### TEST ENVIRONMENT :

- |             |             |
|-------------|-------------|
| Temperature | : 24±2°C    |
| Humidity    | : 70±20% RH |

### SPECIMEN :

- |          |            |
|----------|------------|
| Model    | : AWK-3501 |
| Quantity | : 1 piece  |

### SHOCK TEST SPECIFICATION :

- |                 |                     |
|-----------------|---------------------|
| Wave Form       | : Half sine wave    |
| Acceleration    | : 15 g              |
| Duration Time   | : 11 ms             |
| No. of Shock    | : Each axis 3 times |
| Shock Direction | : ±X, ±Y, ±Z axis   |

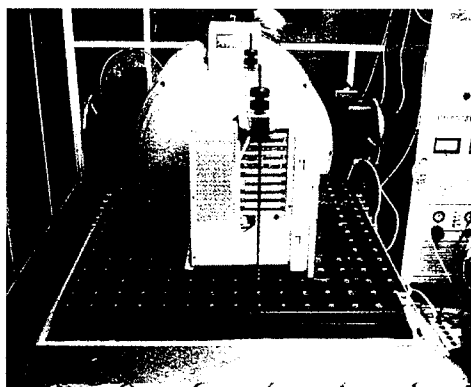
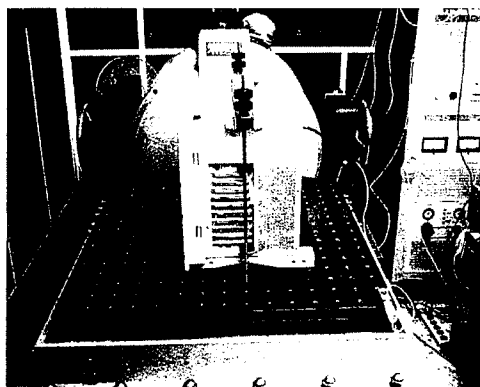
### TEST RESULT :

Appearance check : No damage

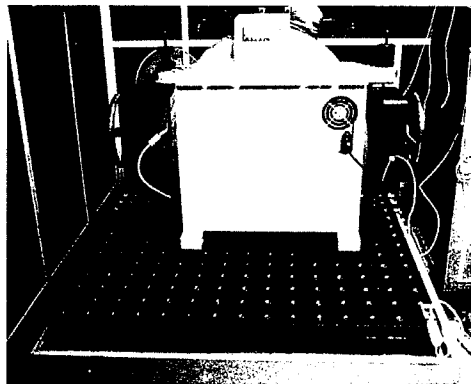
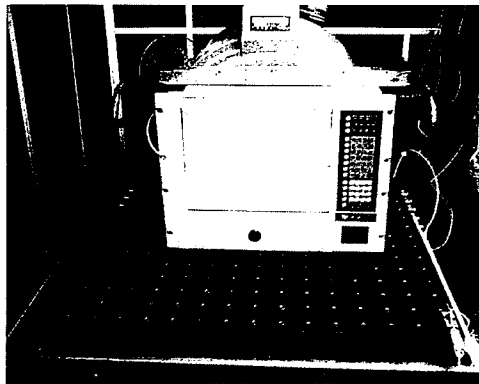
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### Testing photos

#### AXIS $\pm X$



#### AXIS $\pm Y$



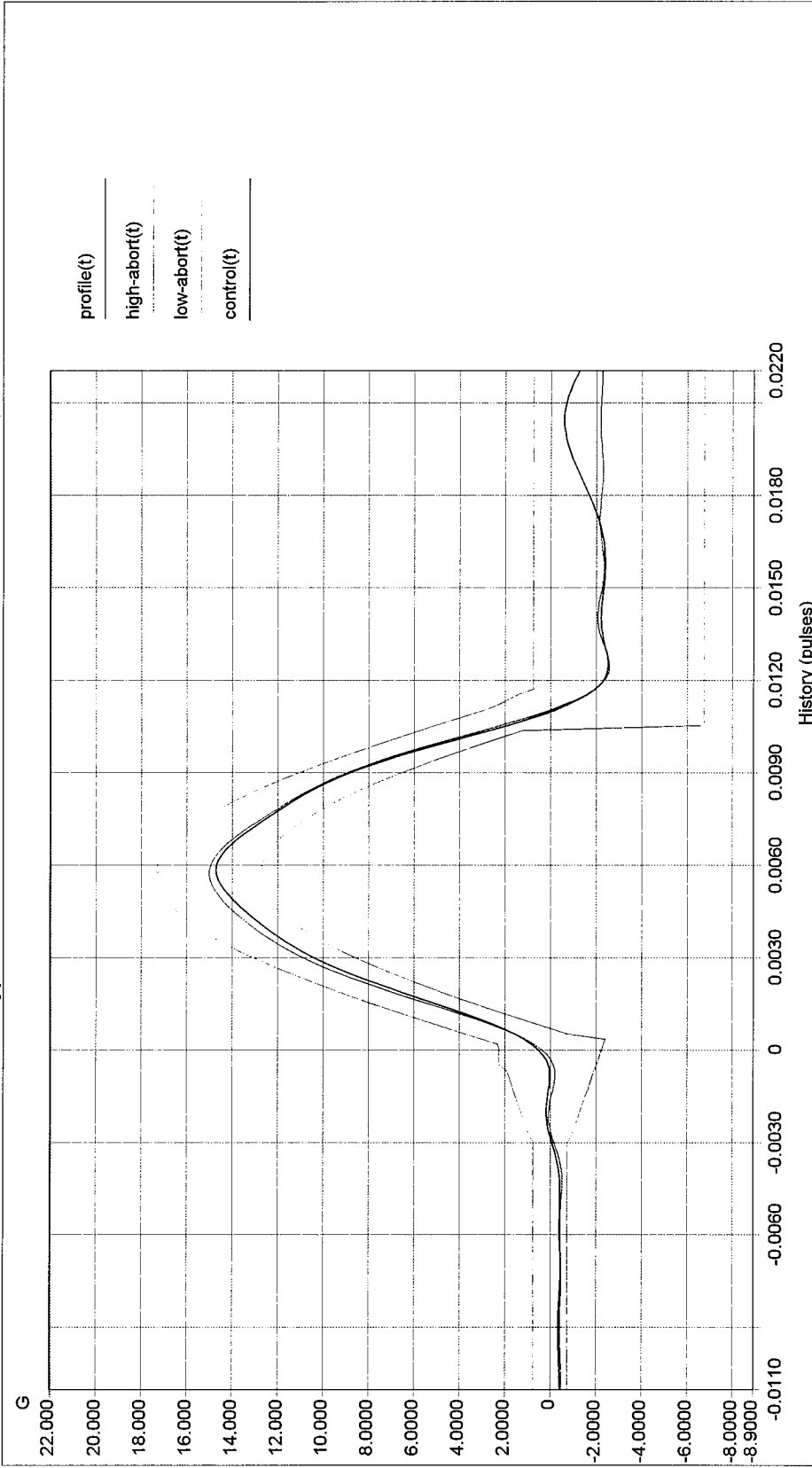
#### AXIS $\pm Z$



Axis X

Project File Name: 研揚 15G 11ms.prj

Profile Name: 15G 11mSec Test Type: Classical Shock Run Folder: \Run Mar 02,2004 14-14-07

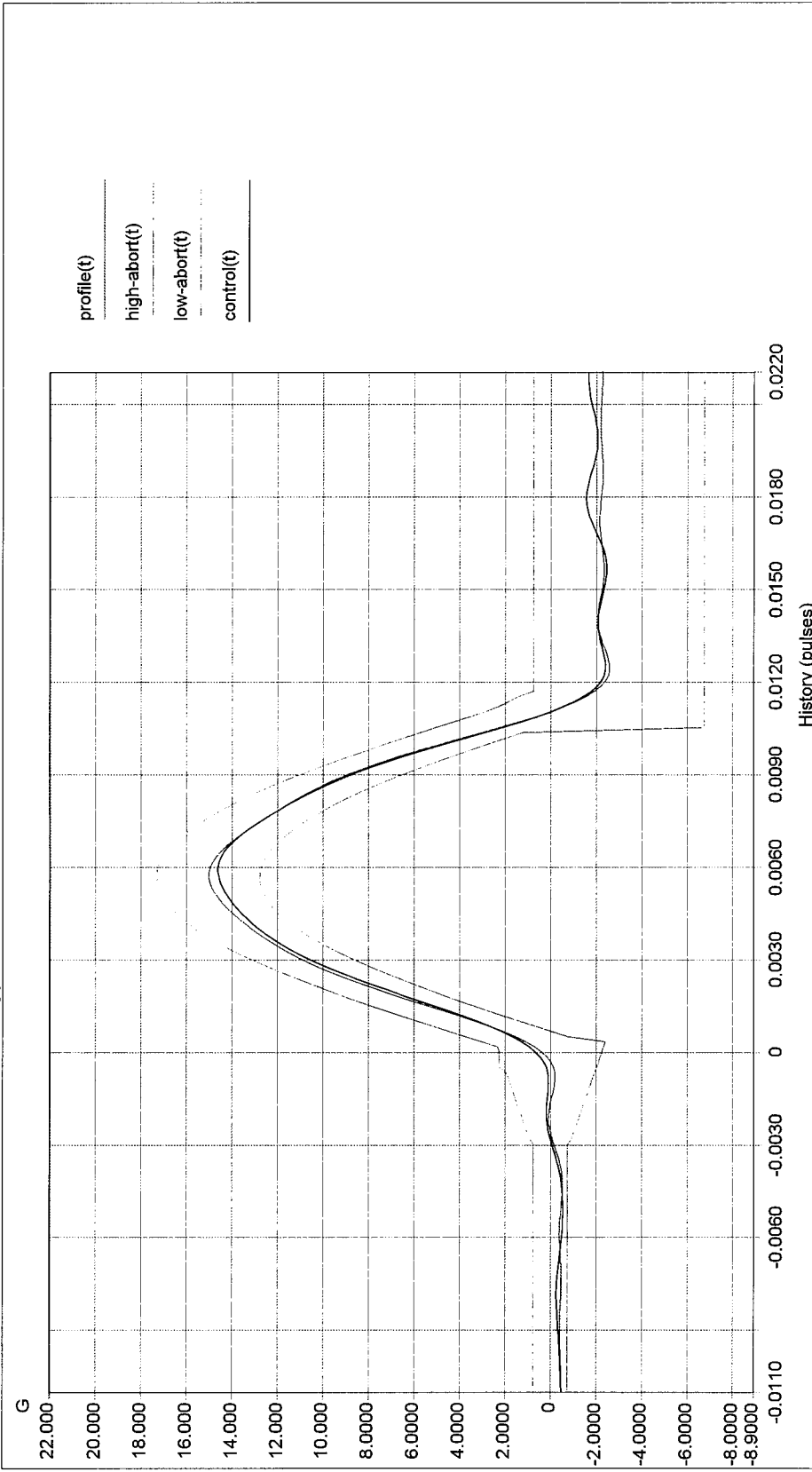


Level: 100 % Block Size: 4096 Elapsed Pulses: 11 Full Level Elapsed Pulses: 3  
Frame Time: 0.682667 Seconds Control Peak: 14.709726 G Control RMS: 1.458383 G  
dT: 0.000167 Seconds Demand Peak: 14.999999 G Demand RMS: 1.480628 G Remaining Pulses: 0  
Pulse Type: Half Sine Amplitude: 14.999999 G Pulse Width: 11.000001 ms  
Data saved at 02:14:30 PM, Tuesday, March 02, 2004 Report created at 02:14:31 PM, Tuesday, March 2, 2004

Axis -x

Project File Name: 研揚 15G 11ms.prj

Profile Name: 15G 11mSec Test Type:Classical Shock Run Folder: .Run Mar 02,2004 14-18-02

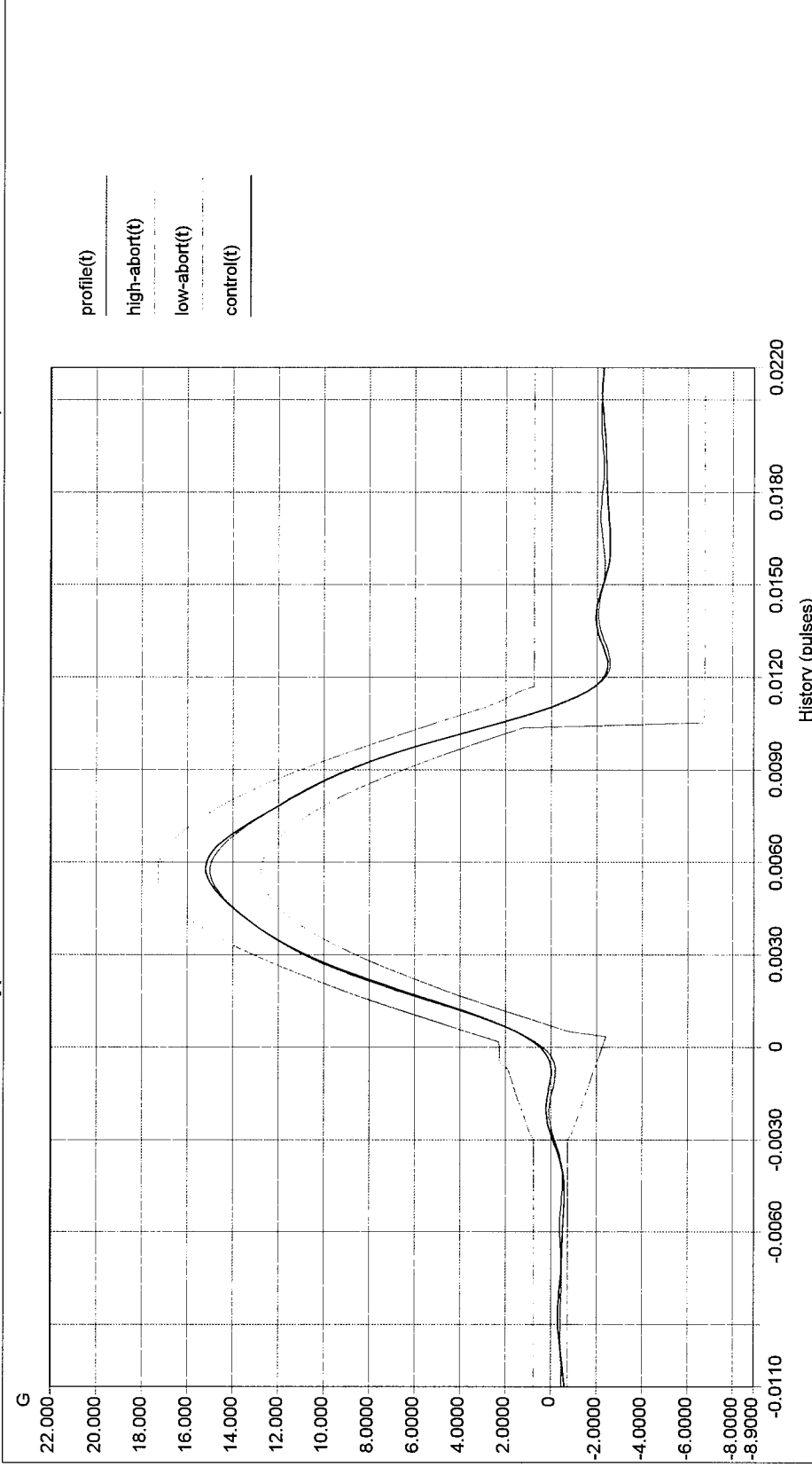


Level: 100 % Block Size: 4096 Elapsed Pulses:11  
Frame Time: 0.682667 Seconds Control Peak: 14.606172 G Control RMS: 1.463687 G Full Level Elapsed Pulses: 3  
dT: 0.000167 Seconds Demand Peak: 14.999999 G Demand RMS: 1.480628 G Remaining Pulses: 0  
Pulse Type: Half Sine Amplitude: 14.999999 G Pulse Width: 11.000001 ms  
Data saved at 02:18:25 PM, Tuesday, March 02, 2004 Report created at 02:18:26 PM, Tuesday, March 2, 2004

Axis y

Project File Name: 研揚 15G 11ms.prj

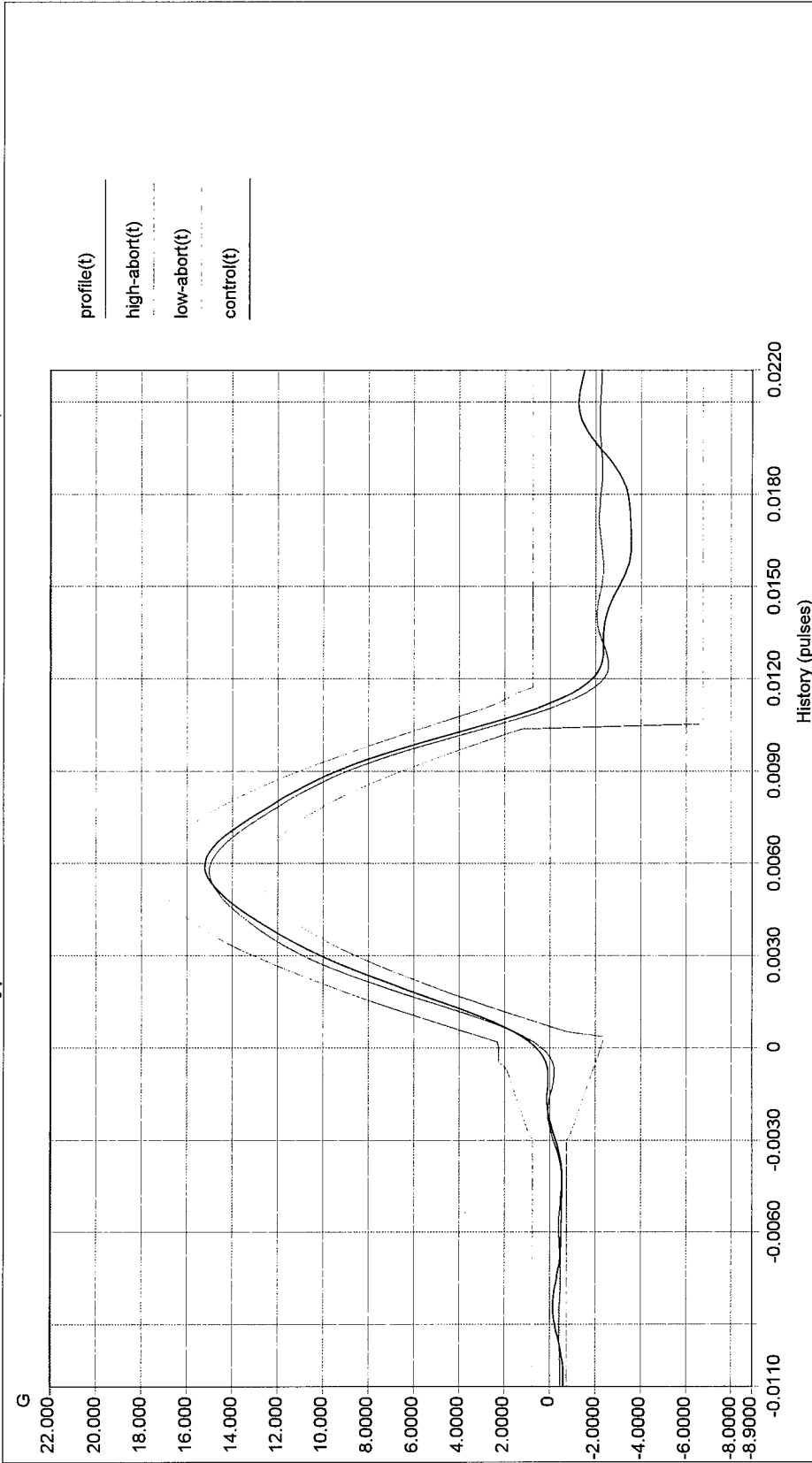
Profile Name: 15G 11mSec Test Type: Classical Shock Run Folder: .\Run Mar 02, 2004 14-03-28



Level: 100 % Block Size: 4096 Elapsed Pulses: 11  
Frame Time: 0.682667 Seconds Control Peak: 15.185033 G Control RMS: 1.494673 G Full Level Elapsed Pulses: 3  
dT: 0.000167 Seconds Demand Peak: 14.999999 G Demand RMS: 1.480628 G Remaining Pulses: 0  
Pulse Type: Half Sine Amplitude: 14.999999 G Pulse Width: 11.000001 ms  
Data saved at 02:04:36 PM, Tuesday, March 02, 2004 Report created at 02:04:37 PM, Tuesday, March 2, 2004

Axis -y Project File Name: 研揚 15G 11ms.pj

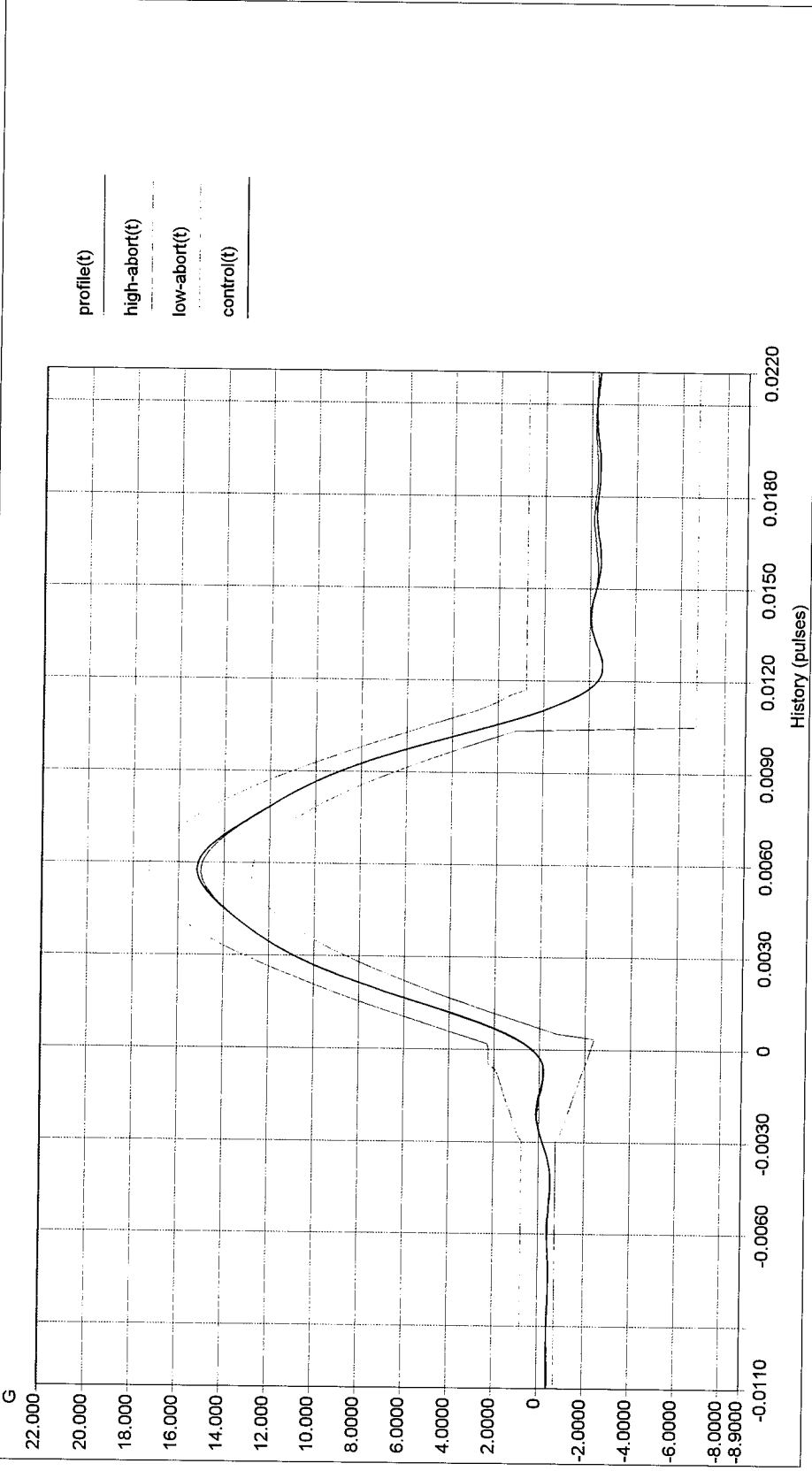
Profile Name: 15G 11mSec Test Type: Classical Shock Run Folder: .\Run Mar 02, 2004 14-10-30



Level: 100 % Block Size: 4096 Elapsed Pulses: 11  
Frame Time: 0.682667 Seconds Control Peak: 15.203086 G Control RMS: 1.498647 G Full Level Elapsed Pulses: 3  
dT: 0.000167 Seconds Demand Peak: 14.999999 G Demand RMS: 1.480628 G Remaining Pulses: 0  
Pulse Type: Half Sine Amplitude: 14.999999 G Pulse Width: 11.000001 ms  
Data saved at 02:11:05 PM, Tuesday, March 02, 2004 Report created at 02:11:06 PM, Tuesday, March 2, 2004

Axis Z Project File Name: 研揚 15G 11ms.prj

Profile Name: 15G 11mSec Test Type: Classical Shock Run Folder: .\Run Mar 02,2004 13-40-53

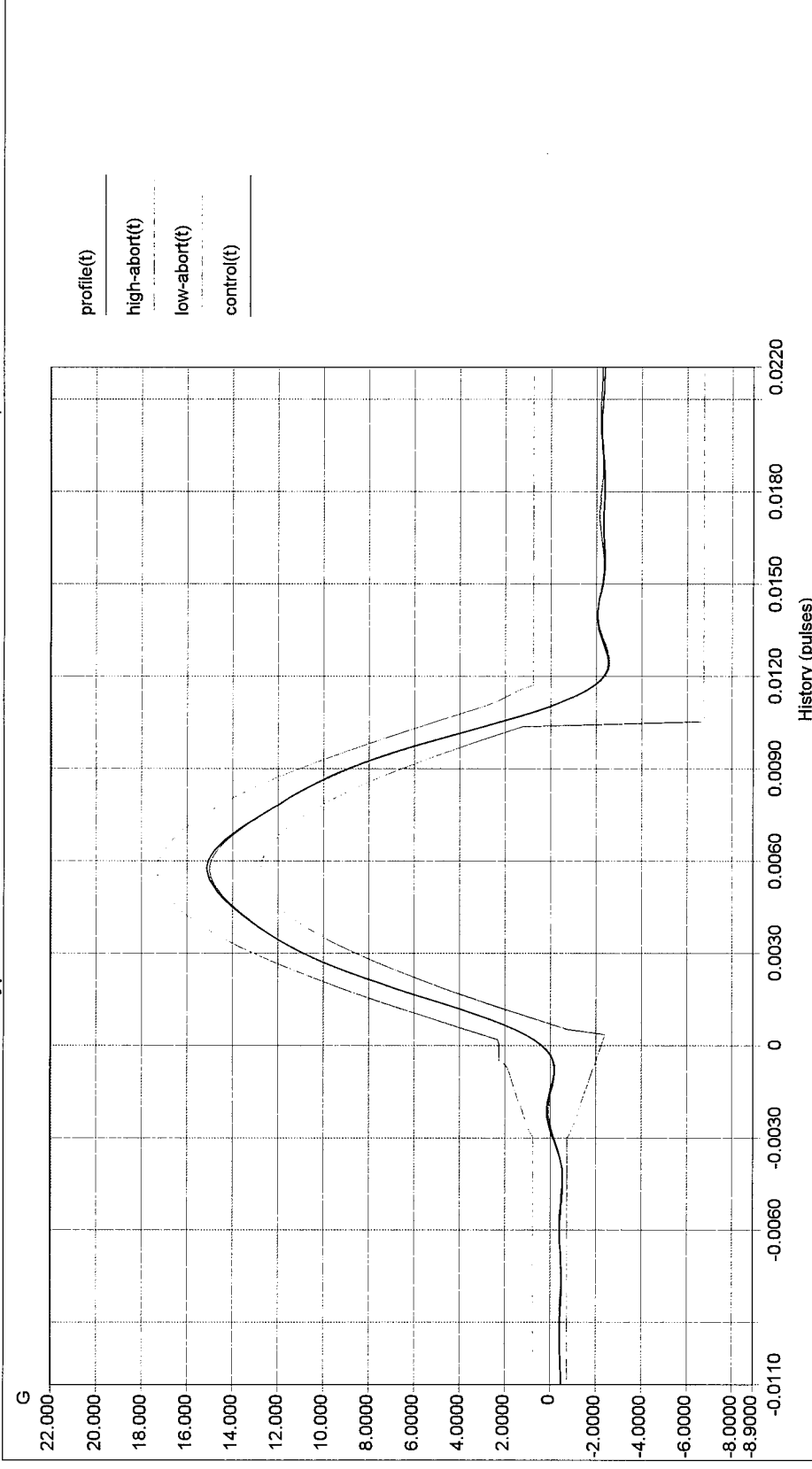


Level: 100 % Block Size: 4096 Elapsed Pulses: 10 Full Level Elapsed Pulses: 3  
Frame Time: 0.682667 Seconds Control Peak: 15.169609 G Control RMS: 1.495539 G  
dT: 0.000167 Seconds Demand Peak: 14.999999 G Demand RMS: 1.480628 G Remaining Pulses: 0  
Pulse Type: Half Sine Amplitude: 14.999999 G Pulse Width: 11.000001 ms  
Data saved at 01:41:13 PM, Tuesday, March 02, 2004 Report created at 01:41:15 PM, Tuesday, March 2, 2004



Axis -z Project File Name: 研揚 15G 11ms.prj

Profile Name: 15G 11mSec Test Type: Classical Shock Run Folder: .\Run Mar 02, 2004 13-46-37



Level: 100 % Block Size: 4096 Elapsed Pulses: 10 Full Level Elapsed Pulses: 3  
Frame Time: 0.682667 Seconds Control Peak: 15.114898 G Control RMS: 1.493273 G  
dT: 0.000167 Seconds Demand Peak: 14.999999 G Demand RMS: 1.480628 G Remaining Pulses: 0  
Pulse Type: Half Sine Amplitude: 14.999999 G Pulse Width: 11.000001 ms  
Data saved at 01:46:58 PM, Tuesday, March 02, 2004 Report created at 01:47:01 PM, Tuesday, March 2, 2004