

## TESTING / INSPECTION REPORT

DATE : October 12, 2005  
REPORT NO : ST-051012-8

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SPECIMEN : FWS-825 (FWB-880N) with 3.5" HDD

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

### REMARKS :

- The results only apply to the device under test.
- This report is 19 pages, and no part of it may be abstracted or reproduced.
- Attached pages are controlling pulse of shock test.

Test Engineer :	<i>Benn Huang</i>	
Approved by :	<i>David Lee</i>	Laboratory Head : <i>Chipping Chan</i>



## TESTING / INSPECTION REPORT

### TESTING EQUIPMENT :

1. Shock Tester : KING DESIGN (KD-9363EM-600F2K-50N120,  
S/N : KDS11054783)  
2. Controller : DACTRON (FRONT-End Box, S/N:5250251)  
3. Control Accelerometer : Wilcoxon Research (WR-777 , S/N:4208)

### TEST ENVIRONMENT :

- Temperature :  $20 \pm 2^{\circ}\text{C}$   
Humidity :  $70 \pm 20\% \text{ RH}$

### SPECIMEN :

- Model : FWS-825 (FWB-880N) with 3.5" HDD  
Quantity : 1 piece

### SHOCK TEST SPECIFICATION :

- (1) Wave Form : Half sine wave (Operation)  
Acceleration : 10 g  
Duration Time : 11 ms  
No. of Shock : Each axis 3 times  
Shock Direction :  $\pm X, \pm Y, \pm Z$  axis
- (2) Wave Form : Half sine wave (Non-operation)  
Acceleration : 20 g  
Duration Time : 11 ms  
No. of Shock : Each axis 3 times  
Shock Direction :  $\pm X, \pm Y, \pm Z$  axis

## TESTING / INSPECTION REPORT

TEST RESULT :

Describe	PASS	FAIL	Non-Judgment <sup>(1)</sup>
Function judgment	---	---	√
Appearance check	---	---	√
(1)--This test report record object test procedure and environment, not including test result.			

## TESTING / INSPECTION REPORT

### Testing photos

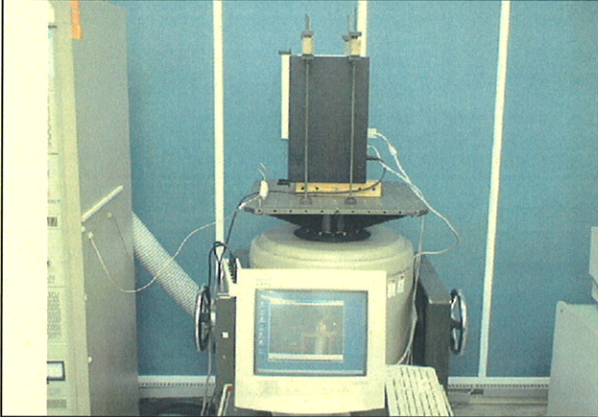
#### Operation



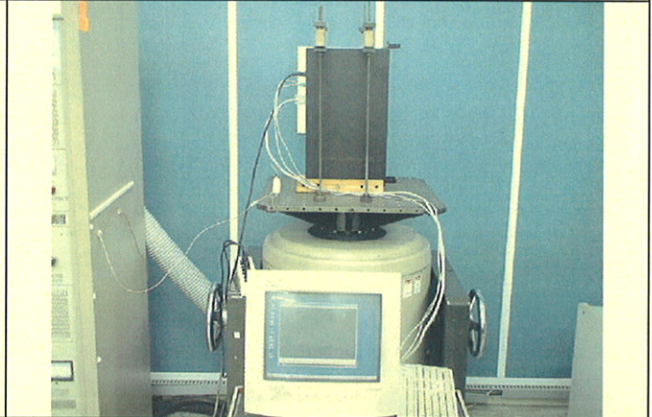
## TESTING / INSPECTION REPORT

### Testing photos (Operation)

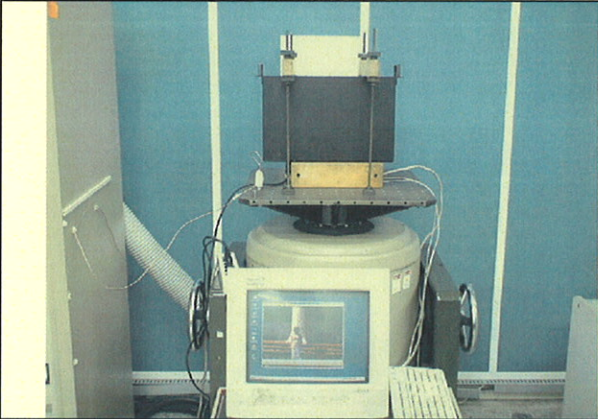
**AXIS X**



**AXIS -X**



**AXIS Y**



**AXIS -Y**



**AXIS Z**



**AXIS -Z**



## TESTING / INSPECTION REPORT

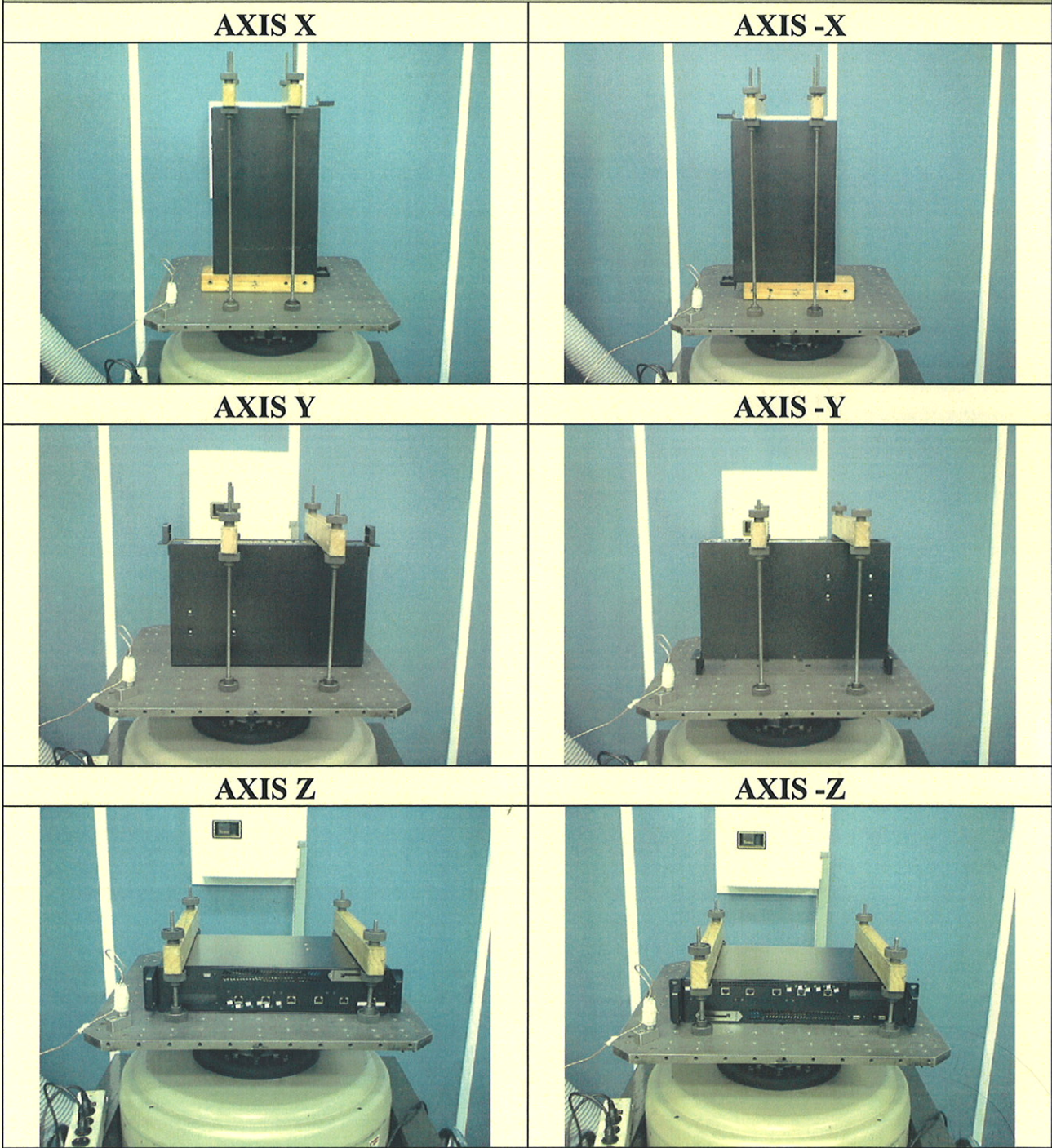
### Testing photos

#### Non-operation



**TESTING / INSPECTION REPORT**

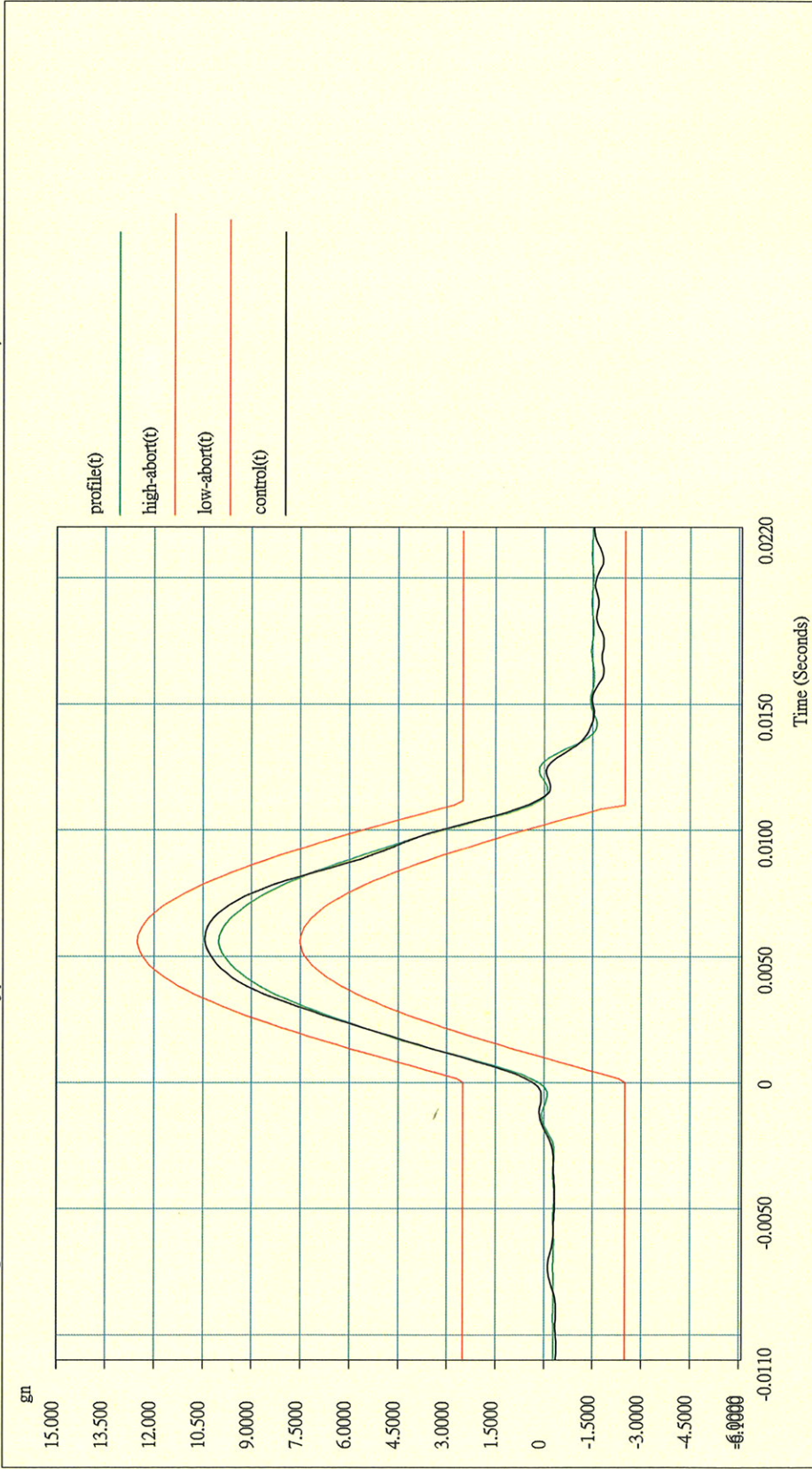
**Testing photos (Non-operation)**



Axis X

Project File Name: 研揚 10g 11ms.prj

Profile Name: 10gn 11mSec Test Type: Classical Shock Run Folder: .\RunDefault Oct 06, 2005 10-40-47



Level: 100 % Block Size: 2048 Elapsed Pulses: 12 Frame Time: 0.341333 Seconds Control Peak: 10.435856 gn

Control RMS: 1.422613 gn Full Level Elapsed Pulses: 3 dT: 0.000167 Seconds Demand Peak: 10.000000 gn

Demand RMS: 1.353896 gn Remaining Pulses: 0 Pulse Type: Half Sine Amplitude: 10.000000 gn Pulse Width: 11.000001 ms

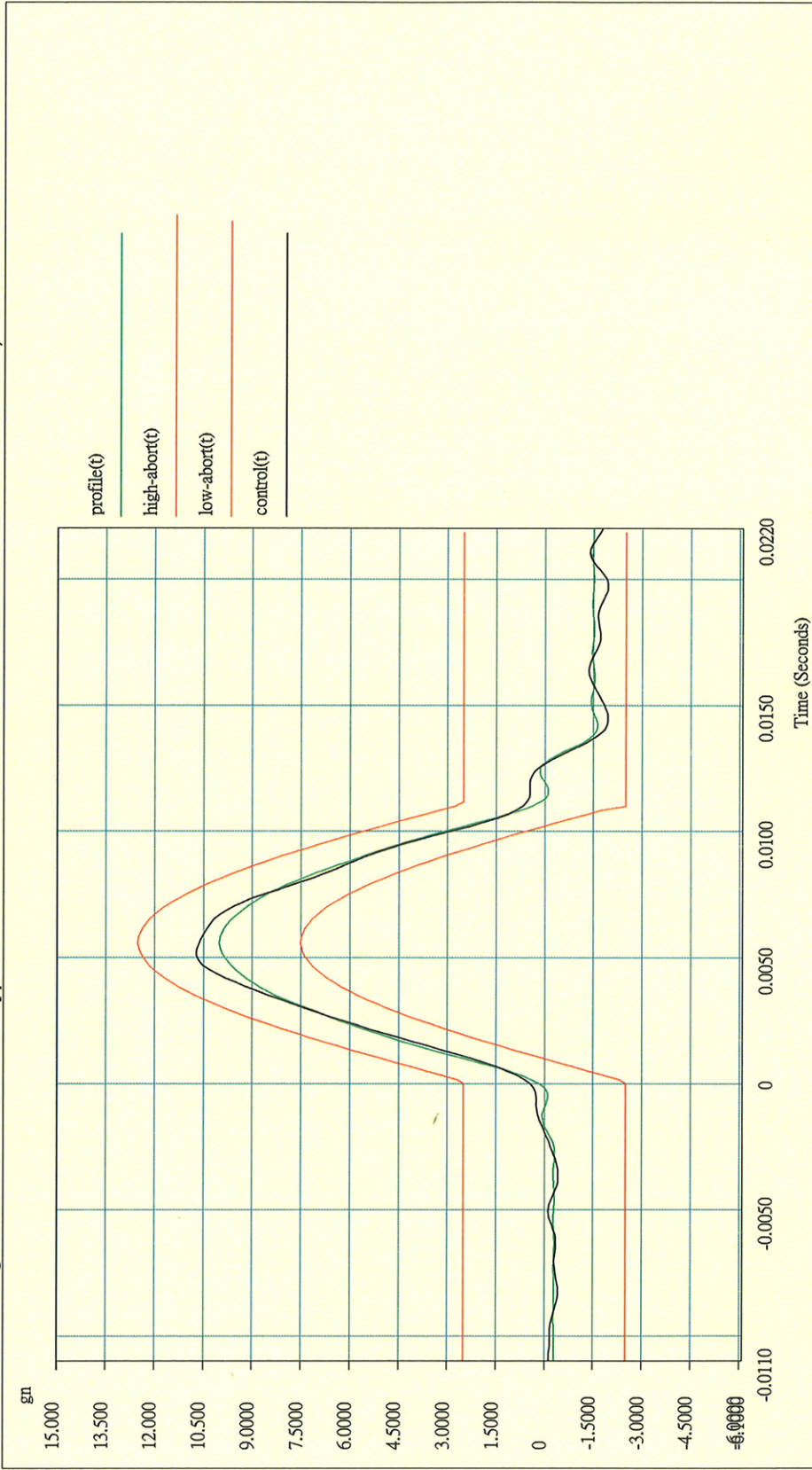
Data saved at 10:41:13 AM, Thursday, October 06, 2005 Report created at 10:41:16 AM, Thursday, October 6, 2005



Axis -X

Project File Name: 研揚 10g 11ms.prj

Profile Name: 10gn 11mSec Test Type: Classical Shock Run Folder: .\RunDefault Oct 06, 2005 10-43-49



Level: 100 % Block Size: 2048 Elapsed Pulses: 12 Frame Time: 0.341333 Seconds Control Peak: 10.721695 gn

Control RMS: 1.428865 gn Full Level Elapsed Pulses: 3 dT: 0.000167 Seconds Demand Peak: 10.000000 gn

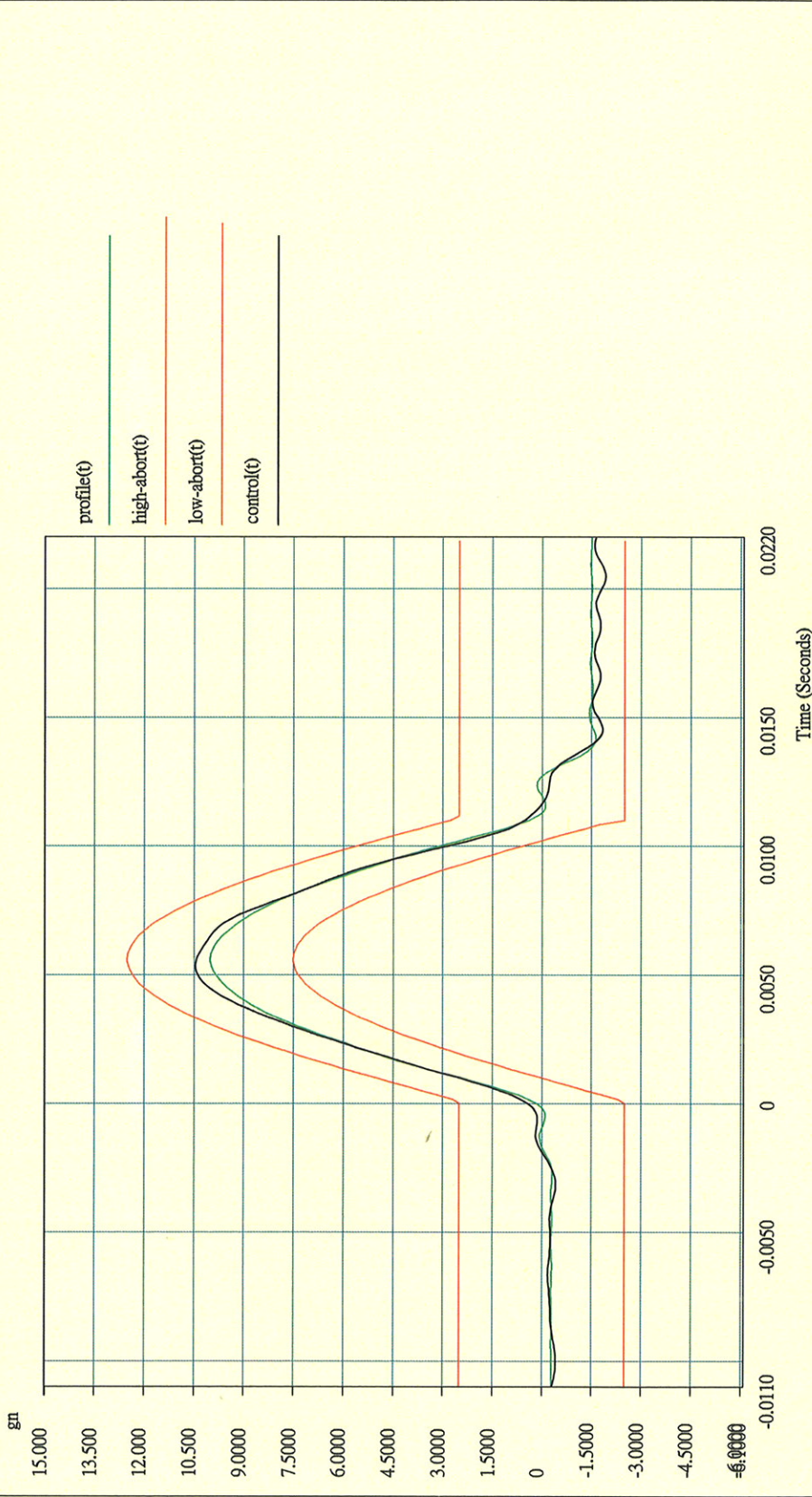
Demand RMS: 1.353896 gn Remaining Pulses: 0 Pulse Type: Half Sine Amplitude: 10.000000 gn Pulse Width: 11.000001 ms

Data saved at 10:44:13 AM, Thursday, October 06, 2005 Report created at 10:44:16 AM, Thursday, October 6, 2005

Axis Y

Project File Name: 研揚 10g 11ms.prj

Profile Name: 10gn 11mSec Test Type: Classical Shock Run Folder: .\RunDefault Oct 06, 2005 10-25-48



Level: 100 % Block Size: 2048 Elapsed Pulses: 12 Frame Time: 0.341333 Seconds Control Peak: 10.456597 gn

Control RMS: 1.421705 gn Full Level Elapsed Pulses: 3 dT: 0.000167 Seconds Demand Peak: 10.000000 gn

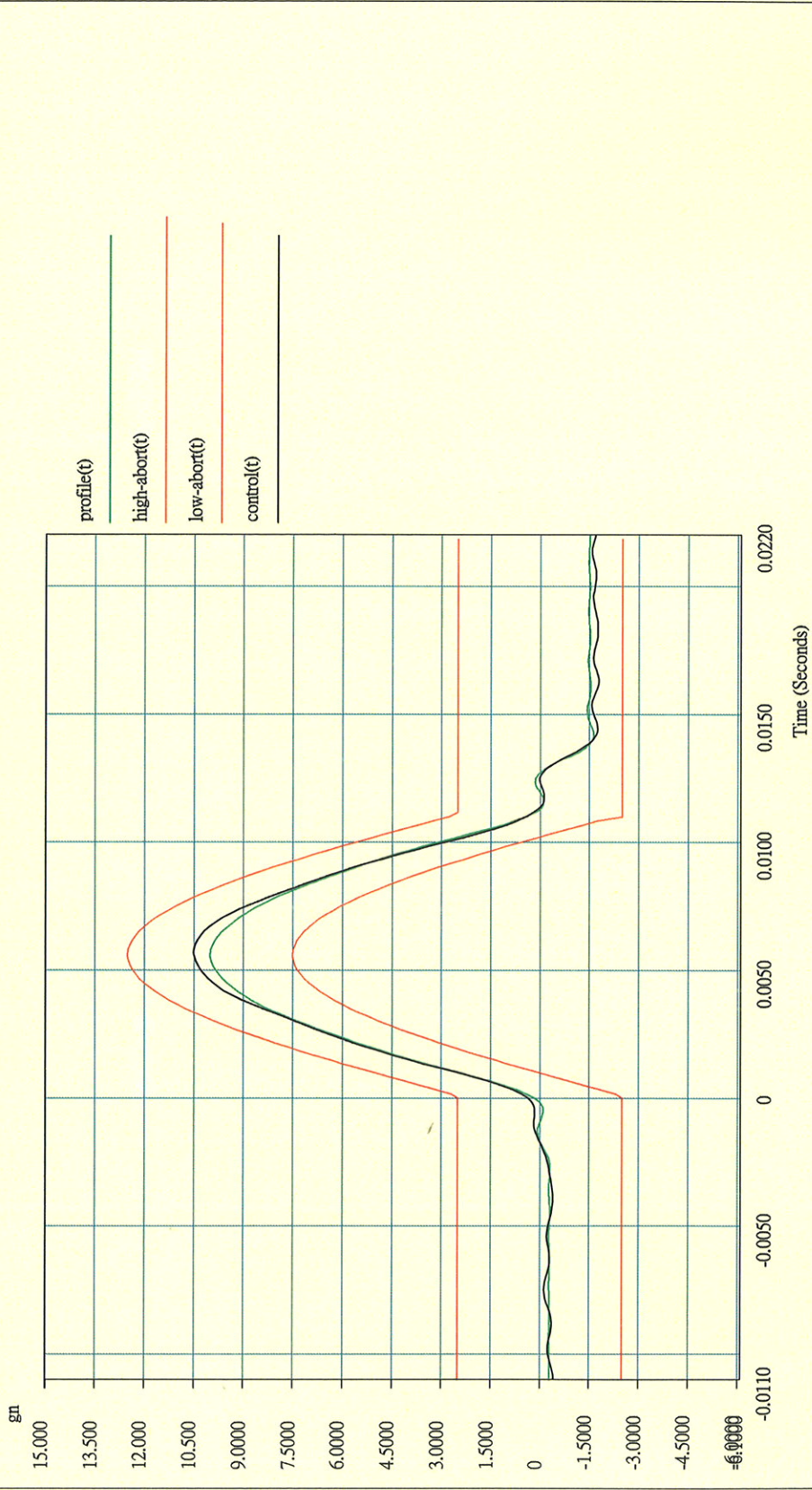
Demand RMS: 1.353896 gn Remaining Pulses: 0 Pulse Type: Half Sine Amplitude: 10.000000 gn Pulse Width: 11.000001 ms

Data saved at 10:26:11 AM, Thursday, October 06, 2005 Report created at 10:26:14 AM, Thursday, October 6, 2005

Axis -Y

Project File Name: 研揚 10g 11ms.prj

Profile Name: 10gn 11mSec Test Type: Classical Shock Run Folder: .\RunDefault Oct 06, 2005 10-33-07

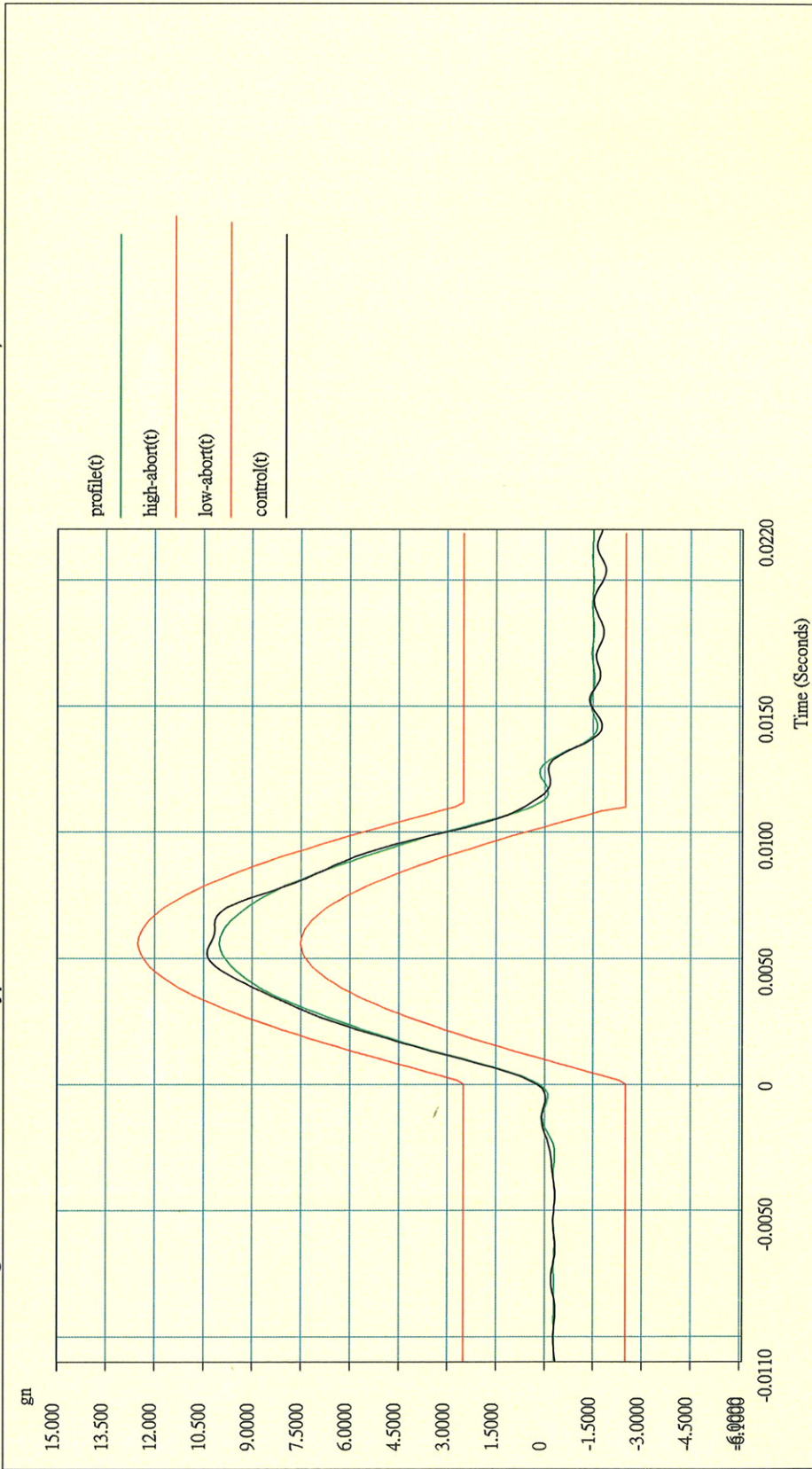


Level: 100 % Block Size: 2048 Elapsed Pulses: 12 Frame Time: 0.341333 Seconds Control Peak: 10.502281 gn  
Control RMS: 1.423319 gn Full Level Elapsed Pulses: 3 dT: 0.000167 Seconds Demand Peak: 10.000000 gn  
Demand RMS: 1.353896 gn Remaining Pulses: 0 Pulse Type: Half Sine Amplitude: 10.000000 gn Pulse Width: 11.000001 ms  
Data saved at 10:33:30 AM, Thursday, October 06, 2005 Report created at 10:33:34 AM, Thursday, October 6, 2005

Axis Z

Project File Name: 研揚 10g 11ms.prj

Profile Name: 10gn 11mSec Test Type: Classical Shock Run Folder: .\RunDefault Oct 06, 2005 10-12-39

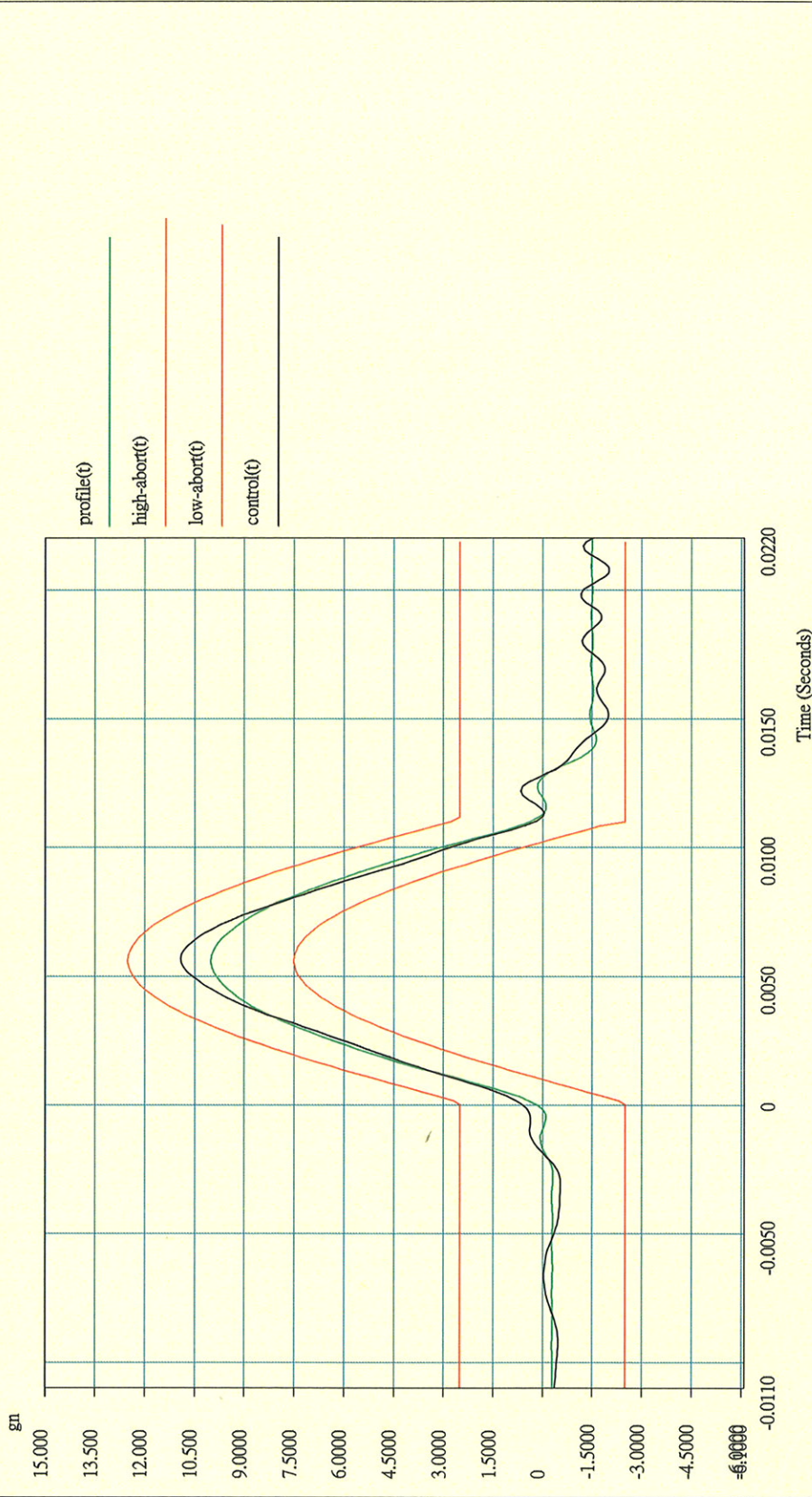


Level: 100 % Block Size: 2048 Elapsed Pulses: 12 Frame Time: 0.341333 Seconds Control Peak: 10.382569 gn  
Control RMS: 1.421058 gn Full Level Elapsed Pulses: 3 dT: 0.000167 Seconds Demand Peak: 10.000000 gn  
Demand RMS: 1.353896 gn Remaining Pulses: 0 Pulse Type: Half Sine Amplitude: 10.000000 gn Pulse Width: 11.000001 ms  
Data saved at 10:13:03 AM, Thursday, October 06, 2005 Report created at 10:13:08 AM, Thursday, October 6, 2005

Axis -Z

Project File Name: 研揚 10g 11ms.prj

Profile Name: 10gn 11mSec Test Type: Classical Shock Run Folder: .\RunDefault Oct 06, 2005 10-18-18



Level: 100 % Block Size: 2048 Elapsed Pulses: 12 Frame Time: 0.341333 Seconds Control Peak: 10.909081 gn

Control RMS: 1.423855 gn Full Level Elapsed Pulses: 3 dT: 0.000167 Seconds Demand Peak: 10.000000 gn

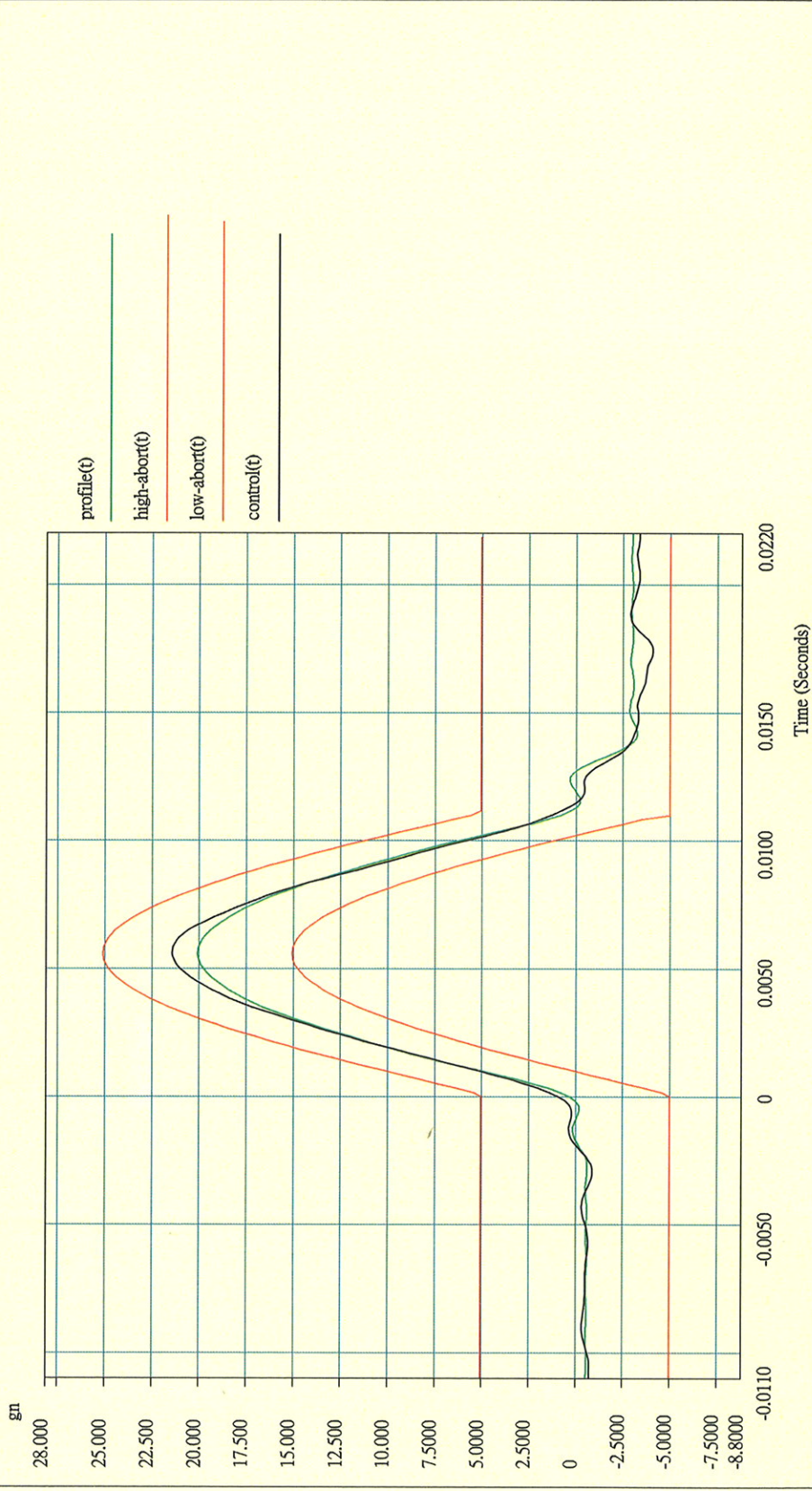
Demand RMS: 1.353896 gn Remaining Pulses: 0 Pulse Type: Half Sine Amplitude: 10.000000 gn Pulse Width: 11.000001 ms

Data saved at 10:18:42 AM, Thursday, October 06, 2005 Report created at 10:18:46 AM, Thursday, October 6, 2005

Axis X

Project File Name: 研揚 20g 11ms.prj

Profile Name: 20gn 11mSec Test Type: Classical Shock Run Folder: .\RunDefault Oct 06, 2005 10-54-21



Level: 100 % Block Size: 2048 Elapsed Pulses: 13 Frame Time: 0.341333 Seconds Control Peak: 21.330969 gn

Control RMS: 2.846598 gn Full Level Elapsed Pulses: 3 dT: 0.000167 Seconds Demand Peak: 20.000000 gn

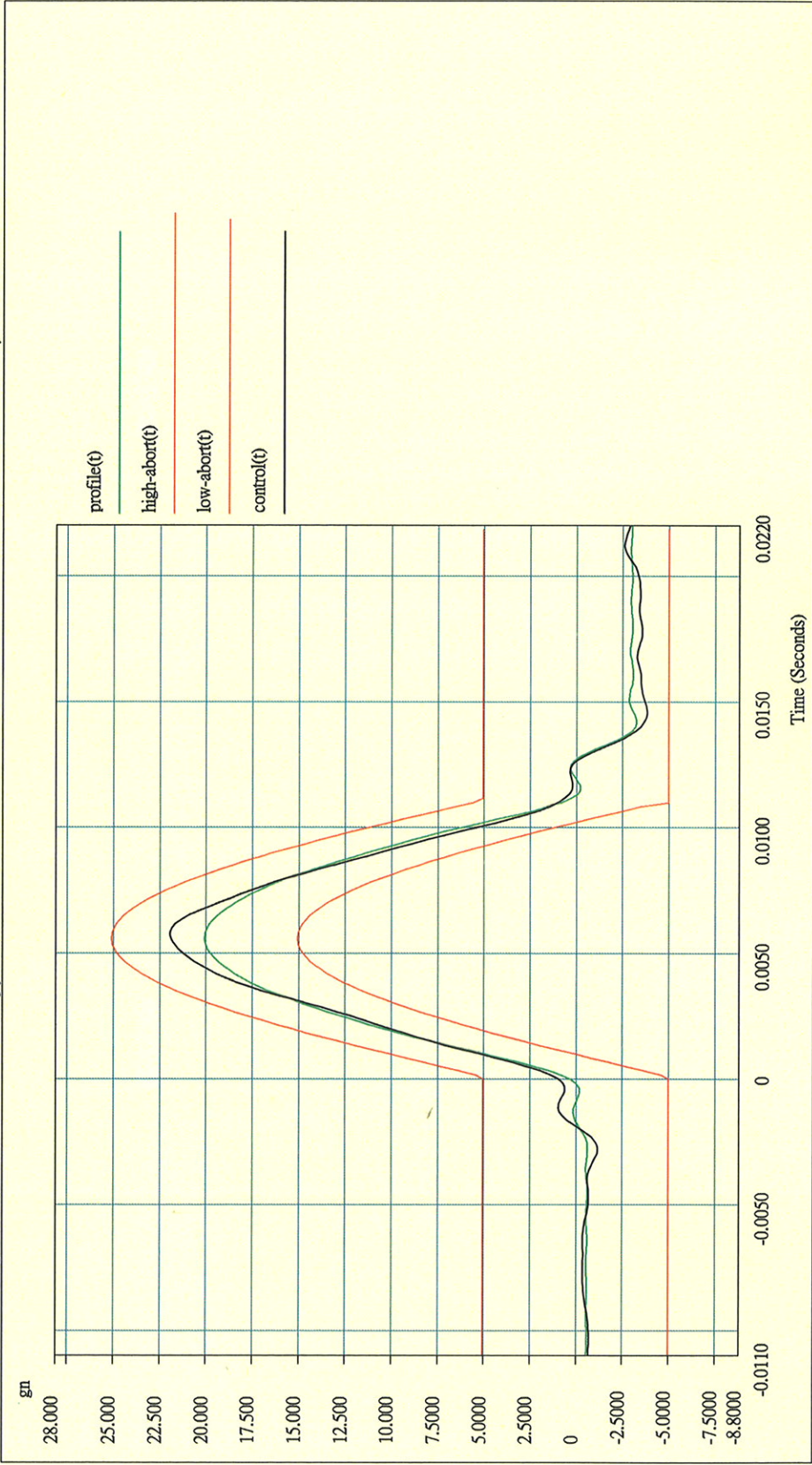
Demand RMS: 2.707793 gn Remaining Pulses: 0 Pulse Type: Half Sine Amplitude: 20.000000 gn Pulse Width: 11.000001 ms

Data saved at 10:54:46 AM, Thursday, October 06, 2005 Report created at 10:54:50 AM, Thursday, October 6, 2005

Axis -X

Project File Name: 研揚 20g 11ms.prj

Profile Name: 20gn 11mSec Test Type: Classical Shock Run Folder: .RunDefault Oct 06, 2005 10-51-13



Level: 100 % Block Size: 2048 Elapsed Pulses: 13 Frame Time: 0.341333 Seconds Control Peak: 21.842310 gn

Control RMS: 2.850039 gn Full Level Elapsed Pulses: 3 dT: 0.000167 Seconds Demand Peak: 20.000000 gn

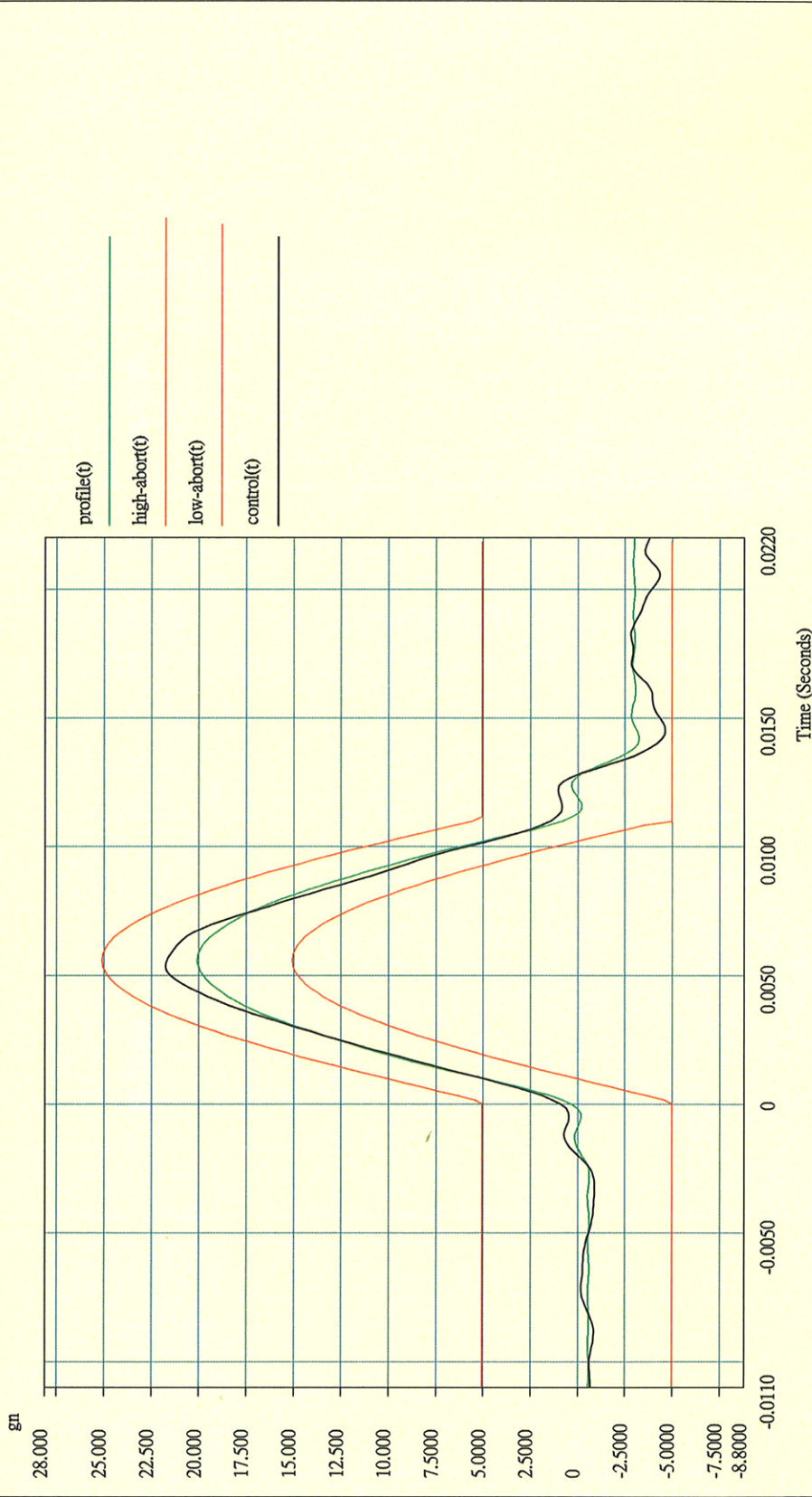
Demand RMS: 2.707793 gn Remaining Pulses: 0 Pulse Type: Half Sine Amplitude: 20.000000 gn Pulse Width: 11.000001 ms

Data saved at 10:51:38 AM, Thursday, October 06, 2005 Report created at 10:51:55 AM, Thursday, October 6, 2005

Axis Y

Project File Name: 研揚 20g 11ms.prj

Profile Name: 20gn 11mSec Test Type: Classical Shock Run Folder: .\RunDefault Oct 06, 2005 11-01-36



Level: 100 % Block Size: 2048 Elapsed Pulses: 13 Frame Time: 0.341333 Seconds Control Peak: 21.677732 gn

Control RMS: 2.847152 gn Full Level Elapsed Pulses: 3 dT: 0.000167 Seconds Demand Peak: 20.000000 gn

Demand RMS: 2.707793 gn Remaining Pulses: 0 Pulse Type: Half Sine Amplitude: 20.000000 gn Pulse Width: 11.000001 ms

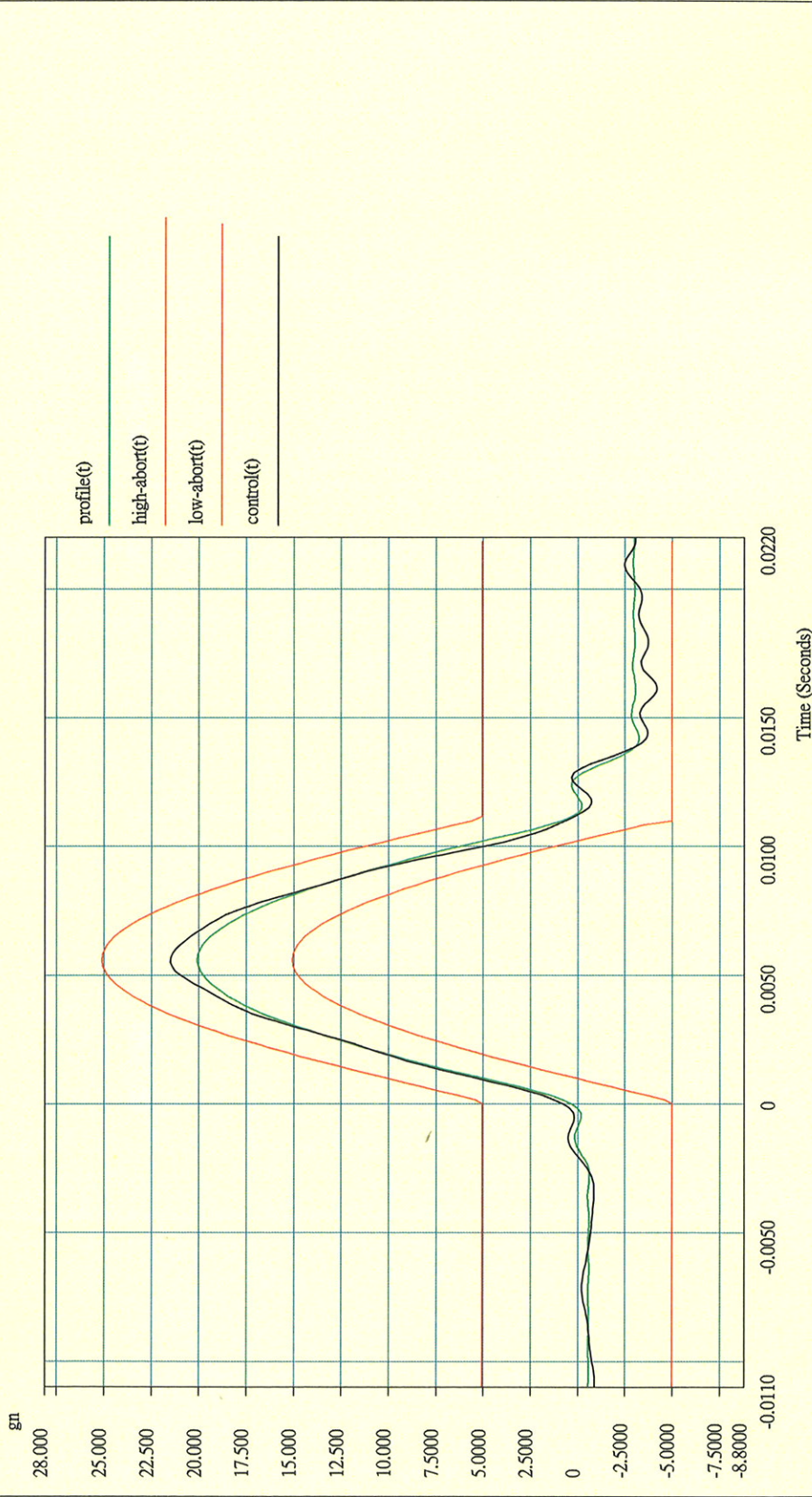
Data saved at 11:02:01 AM, Thursday, October 06, 2005 Report created at 11:02:04 AM, Thursday, October 6, 2005



Axis -Y

Project File Name: 研場 20g 11ms.prj

Profile Name: 20gn 11mSec Test Type: Classical Shock Run Folder: .\RunDefault Oct 06,2005 10-59-44



Level: 100 % Block Size: 2048 Elapsed Pulses: 13 Frame Time: 0.341333 Seconds Control Peak: 21.418539 gn

Control RMS: 2.847929 gn Full Level Elapsed Pulses: 3 dT: 0.000167 Seconds Demand Peak: 20.000000 gn

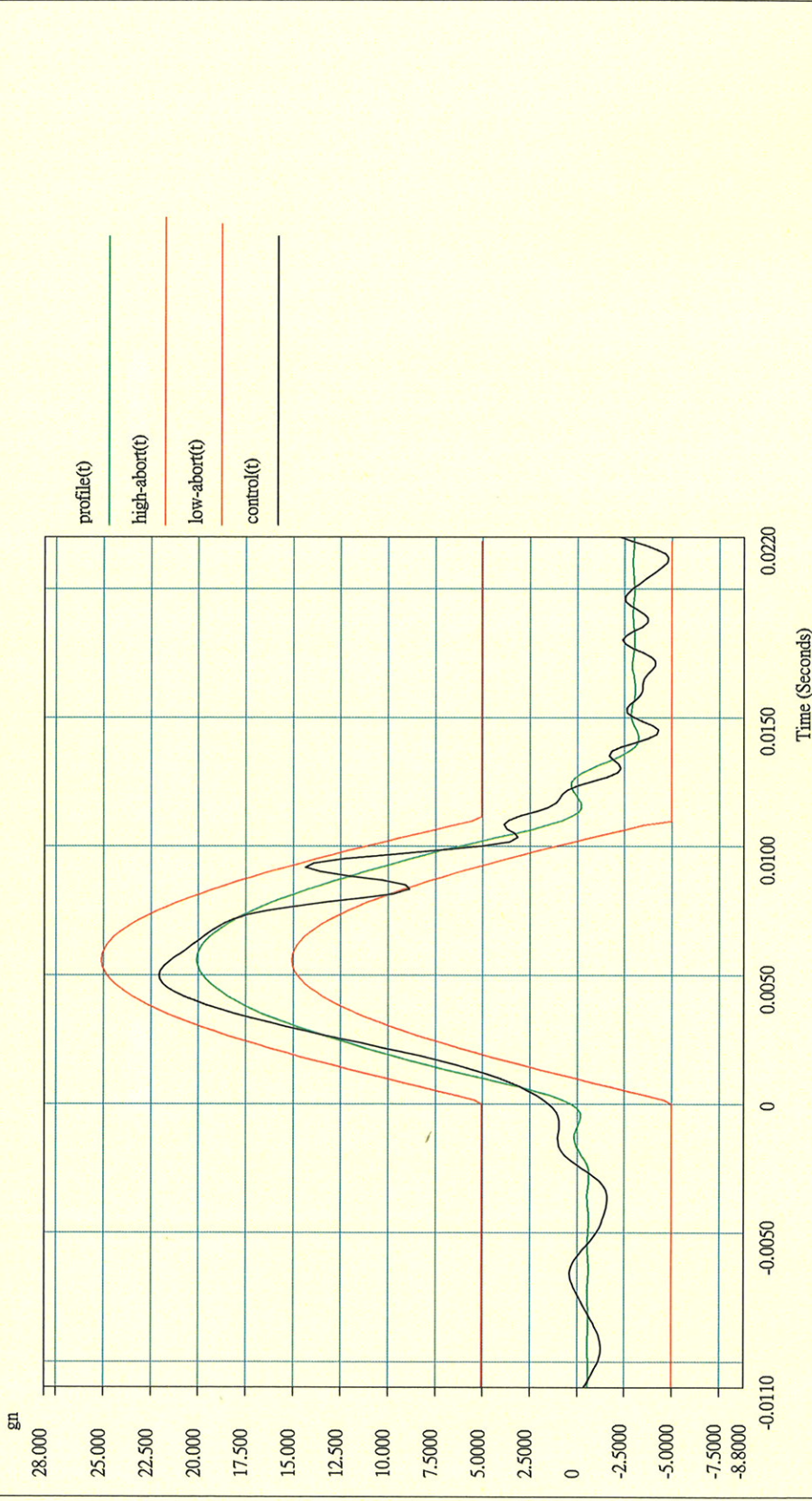
Demand RMS: 2.707793 gn Remaining Pulses: 0 Pulse Type: Half Sine Amplitude: 20.000000 gn Pulse Width: 11.000001 ms

Data saved at 11:00:08 AM, Thursday, October 06, 2005 Report created at 11:00:12 AM, Thursday, October 6, 2005

Axis Z

Project File Name: 研揚 20g 11ms.prj

Profile Name: 20gn 11mSec Test Type: Classical Shock Run Folder: .\RunDefault Oct 06,2005 11-07-22



Level: 100 % Block Size: 2048 Elapsed Pulses: 13 Frame Time: 0.341333 Seconds Control Peak: 21.976444 gn

Control RMS: 2.852140 gn Full Level Elapsed Pulses: 3 dT: 0.000167 Seconds Demand Peak: 20.000000 gn

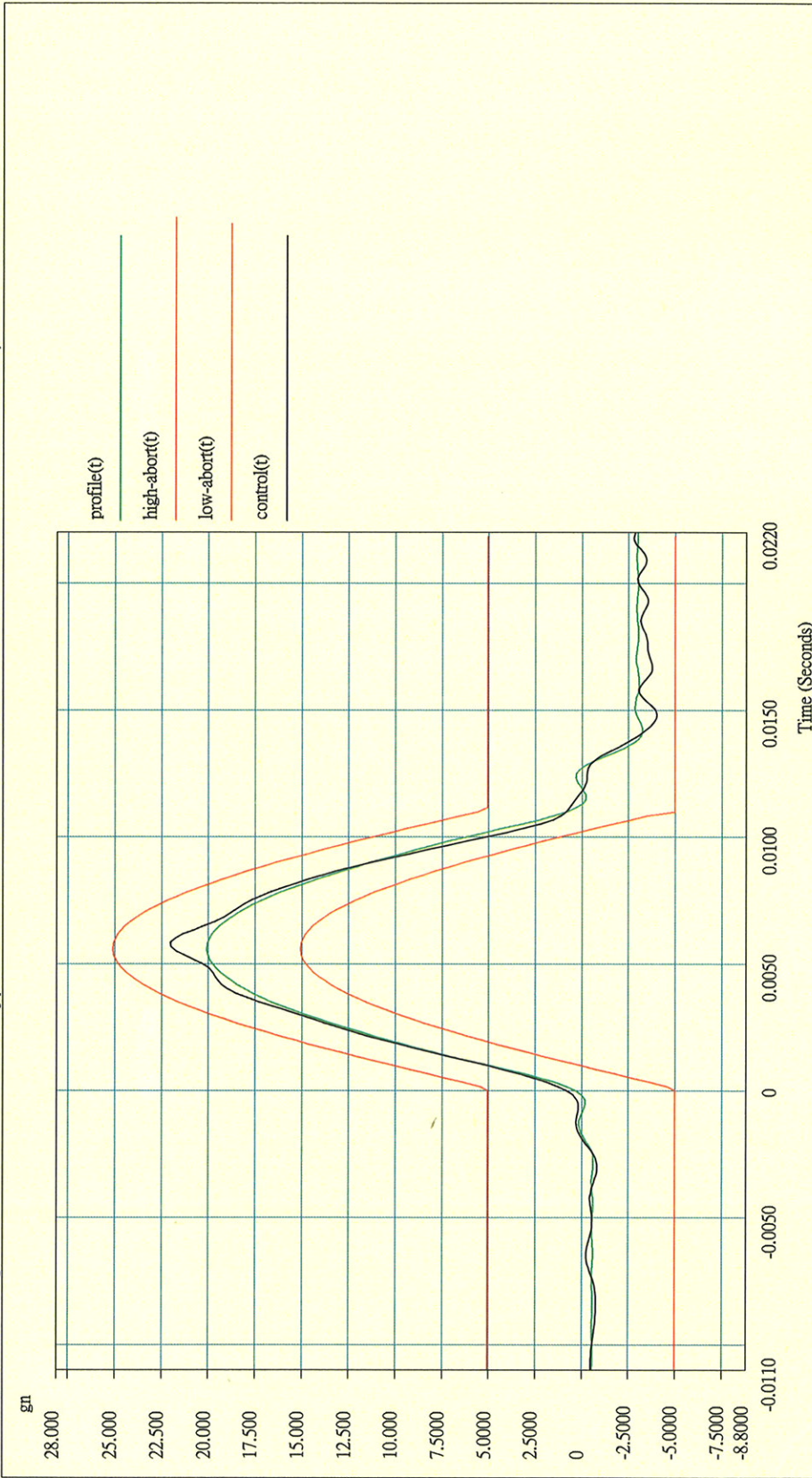
Demand RMS: 2.707793 gn Remaining Pulses: 0 Pulse Type: Half Sine Amplitude: 20.000000 gn Pulse Width: 11.000001 ms

Data saved at 11:07:47 AM, Thursday, October 06, 2005 Report created at 11:07:50 AM, Thursday, October 6, 2005

Axis -Z

Project File Name: 研揚 20g 11ms.prj

Profile Name: 20gn 11mSec Test Type: Classical Shock Run Folder: .\RunDefault Oct 06,2005 11-05-22



Level: 100 % Block Size: 2048 Elapsed Pulses: 13 Frame Time: 0.341333 Seconds Control Peak: 21.932398 gn

Control RMS: 2.849378 gn Full Level Elapsed Pulses: 3 dT: 0.000167 Seconds Demand Peak: 20.000000 gn

Demand RMS: 2.707793 gn Remaining Pulses: 0 Pulse Type: Half Sine Amplitude: 20.000000 gn Pulse Width: 11.000001 ms

Data saved at 11:05:47 AM, Thursday, October 06, 2005 Report created at 11:05:50 AM, Thursday, October 6, 2005