

## TESTING / INSPECTION REPORT

DATE : December 15, 2005  
REPORT NO : ST-051215-4

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SPECIMEN : Onyx-153D

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

### REMARKS :

- The results only apply to the device under test.
- This report is 10 pages, and no part of it may be abstracted or reproduced.
- Attached pages are controlling pulse of shock test.

Test Engineer : <i>Ji Jiang</i>		
Approved by : <i>David Lee</i>	Laboratory Head : <i>Chiping Chan</i>	



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### TESTING EQUIPMENT :

1. Shock 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-153D  
 Quantity : 1 piece

### SHOCK TEST SPECIFICATION :

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

### TEST RESULT :

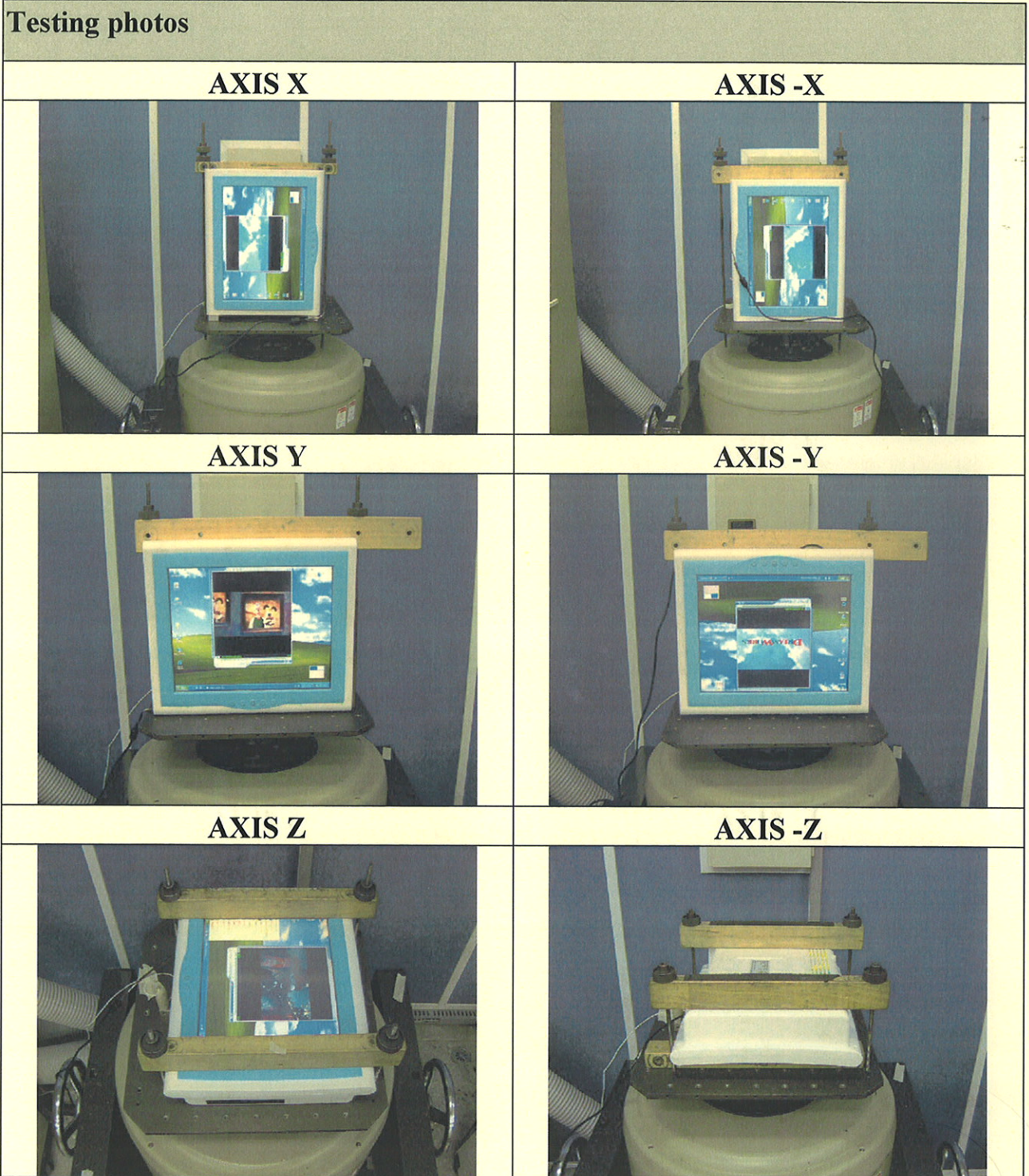
Describe	PASS	FAIL	Non-Judgment <sup>(1)</sup>
Function judgment	---	---	√
Appearance check	---	---	√

(1)--This test report record object test procedure and environment, not including test result.

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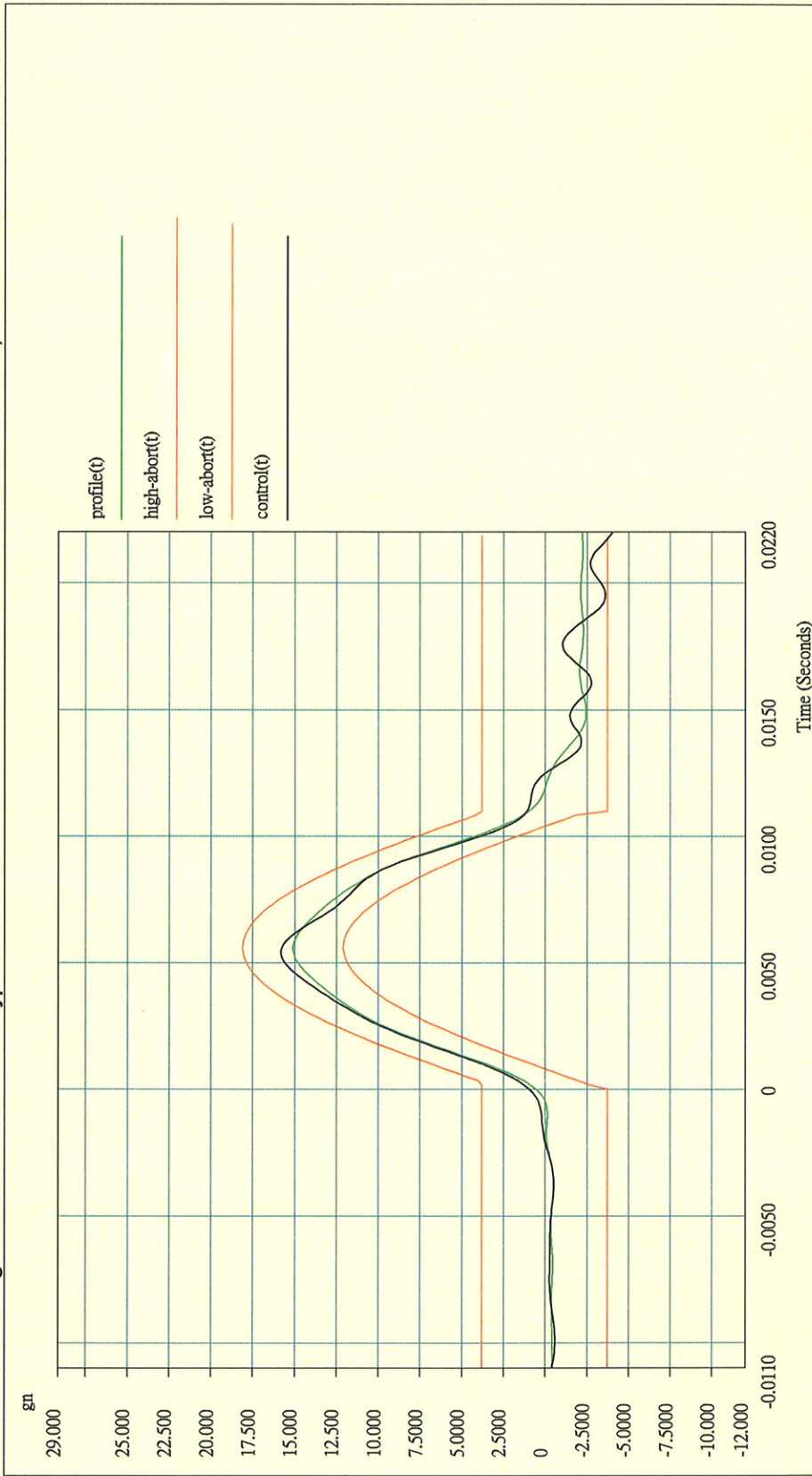
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Axis X

Project File Name: 研揚 15g 11ms.prj

Profile Name: 15gn 11mSec Test Type: Classical Shock Run Folder: .\RunDefault Dec 07, 2005 16-10-22

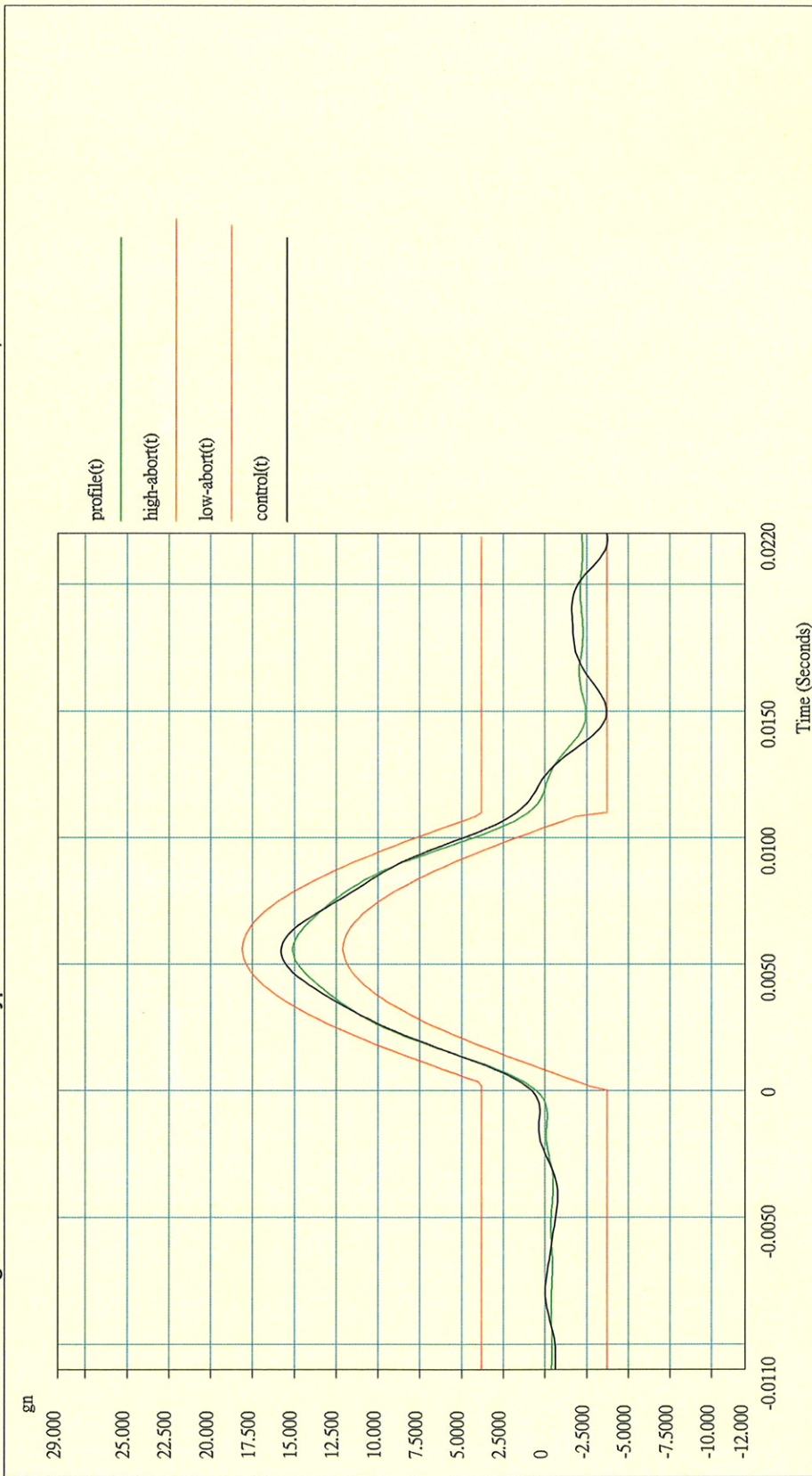


Level: 100 % Block Size: 2048 Elapsed Pulses: 11 Frame Time: 0.341333 Seconds Control Peak: 15.723037 gn  
Control RMS: 2.090560 gn Full Level Elapsed Pulses: 3 dT: 0.000167 Seconds Demand Peak: 14.999999 gn  
Demand RMS: 2.011591 gn Remaining Pulses: 0 Pulse Type: Half Sine Amplitude: 14.999999 gn Pulse Width: 11.000001 ms  
Data saved at 04:10:44 PM, Wednesday, December 07, 2005 Report created at 04:10:46 PM, Wednesday, December 7, 2005

Axis -X

Project File Name: 研揚 15g 11ms.prj

Profile Name: 15gn 11mSec Test Type: Classical Shock Run Folder: .\RunDefault Dec 07, 2005 16-14-54

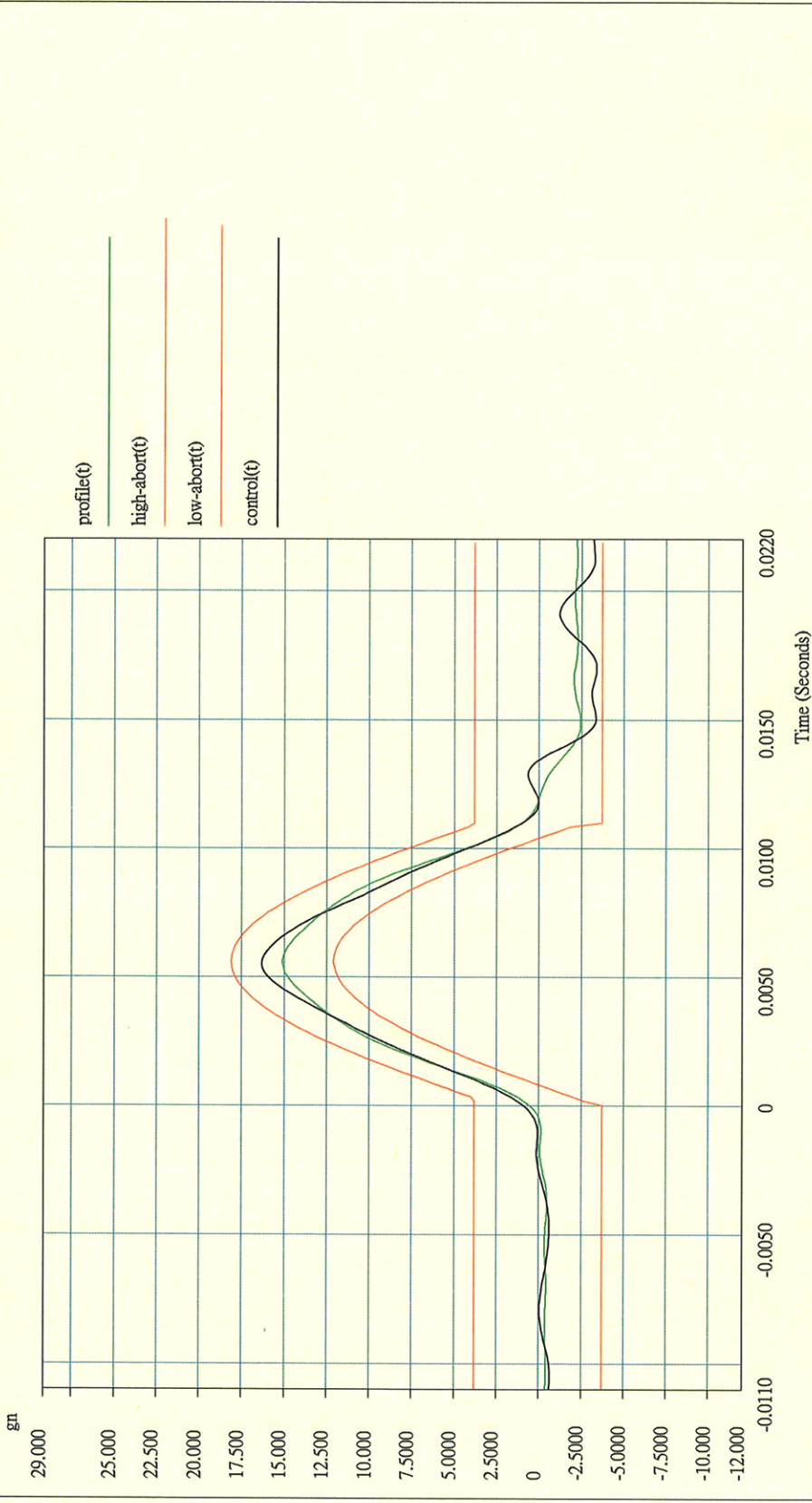


Level: 100 % Block Size: 2048 Elapsed Pulses: 11 Frame Time: 0.341333 Seconds Control Peak: 15.711767 gn  
Control RMS: 2.100661 gn Full Level Elapsed Pulses: 3 dT: 0.000167 Seconds Demand Peak: 14.999999 gn  
Demand RMS: 2.011591 gn Remaining Pulses: 0 Pulse Type: Half Sine Amplitude: 14.999999 gn Pulse Width: 11.000001 ms  
Data saved at 04:16:38 PM, Wednesday, December 07, 2005 Report created at 04:16:41 PM, Wednesday, December 7, 2005

Axis Y

Project File Name: 研揚 15g 11ms.prj

Profile Name: 15gn 11mSec Test Type: Classical Shock Run Folder: .\RunDefault Dec 07, 2005 15-39-12

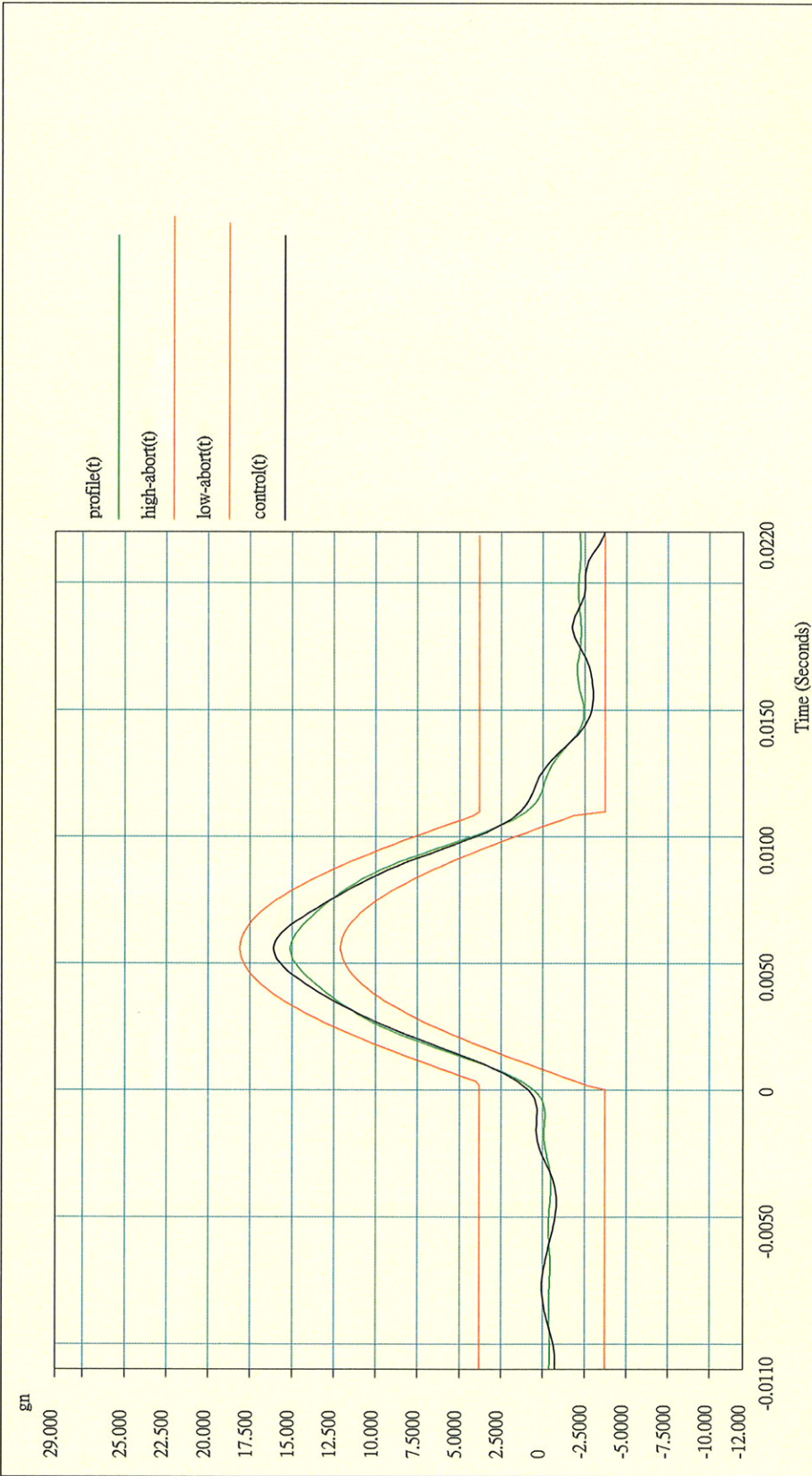


Level: 100 % Block Size: 2048 Elapsed Pulses: 12 Frame Time: 0.341333 Seconds Control Peak: 16.223089 gn  
Control RMS: 2.100609 gn Full Level Elapsed Pulses: 3 dT: 0.000167 Seconds Demand Peak: 14.999999 gn  
Demand RMS: 2.011591 gn Remaining Pulses: 0 Pulse Type: Half Sine Amplitude: 14.999999 gn Pulse Width: 11.000001 ms  
Data saved at 03:39:36 PM, Wednesday, December 07, 2005 Report created at 03:39:43 PM, Wednesday, December 7, 2005

Axis -Y

Project File Name: 研揚 15g 11ms.prj

Profile Name: 15gn 11mSec Test Type:Classical Shock Run Folder: .\RunDefault Dec 07,2005 15-44-10



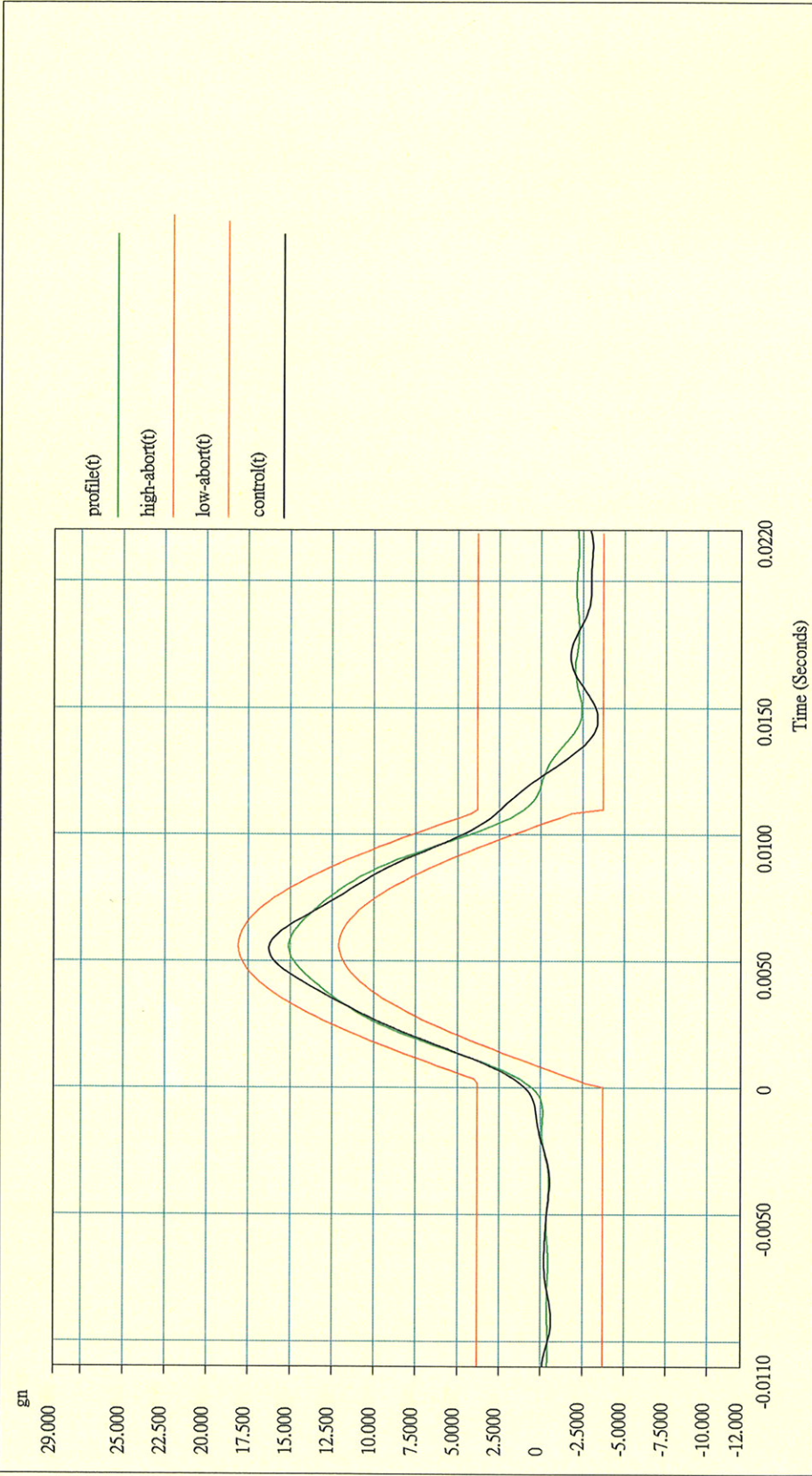
Level: 100 % Block Size: 2048 Elapsed Pulses:12 Frame Time: 0.341333 Seconds Control Peak: 15.994232 gn  
Control RMS: 2.096482 gn Full Level Elapsed Pulses: 3 dT: 0.000167 Seconds Demand Peak: 14.999999 gn  
Demand RMS: 2.011591 gn Remaining Pulses: 0 Pulse Type: Half Sine Amplitude: 14.999999 gn Pulse Width: 11.000001 ms  
Data saved at 03:44:33 PM, Wednesday, December 07, 2005 Report created at 03:44:35 PM, Wednesday, December 7, 2005



Axis Z

Project File Name: 研揚 15g 11ms.prj

Profile Name: 15gn 11mSec Test Type: Classical Shock Run Folder: .\RunDefault Dec 07, 2005 16-03-34



Level: 100 % Block Size: 2048 Elapsed Pulses: 11 Frame Time: 0.341333 Seconds Control Peak: 16.195864 gn

Control RMS: 2.098929 gn Full Level Elapsed Pulses: 3 dt: 0.000167 Seconds Demand Peak: 14.999999 gn

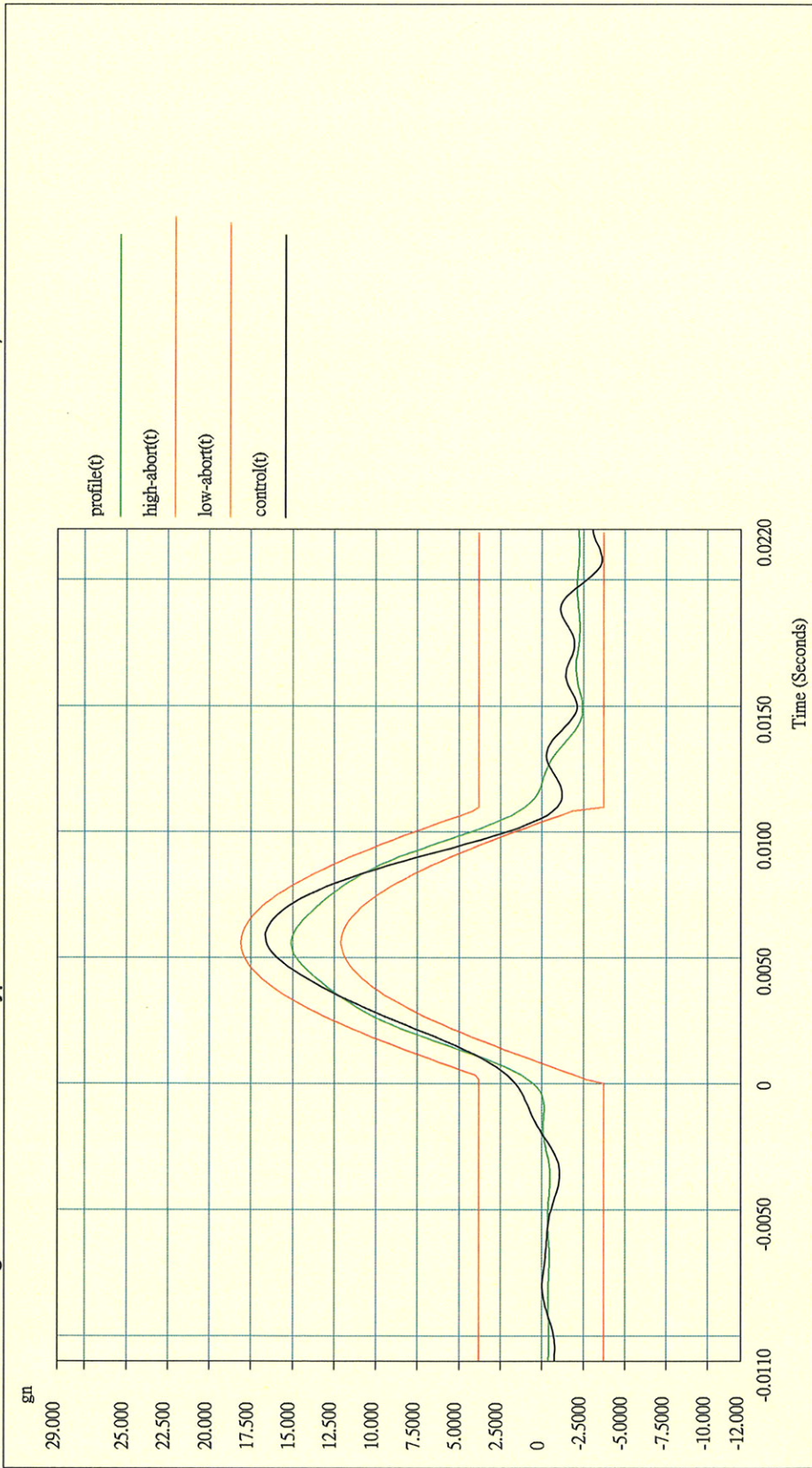
Demand RMS: 2.011591 gn Remaining Pulses: 0 Pulse Type: Half Sine Amplitude: 14.999999 gn Pulse Width: 11.000001 ms

Data saved at 04:04:06 PM, Wednesday, December 07, 2005 Report created at 04:04:09 PM, Wednesday, December 7, 2005

Axis -Z

Project File Name: 研揚 15g 11ms.prj

Profile Name: 15gn 11mSec Test Type: Classical Shock Run Folder: .\RunDefault Dec 07, 2005 15-55-13



Level: 100 % Block Size: 2048 Elapsed Pulses: 11 Frame Time: 0.341333 Seconds Control Peak: 16.545406 gn

Control RMS: 2.128180 gn Full Level Elapsed Pulses: 3 dT: 0.000167 Seconds Demand Peak: 14.999999 gn

Demand RMS: 2.011591 gn Remaining Pulses: 0 Pulse Type: Half Sine Amplitude: 14.999999 gn Pulse Width: 11.000001 ms

Data saved at 03:55:35 PM, Wednesday, December 07, 2005 Report created at 03:55:37 PM, Wednesday, December 7, 2005