

TESTING / INSPECTION REPORT

REPORT NO : VT-090629-3

COMPANY : AAEON Technology Inc.

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SPECIMEN : RTC-1000

DATE OF RECEIVED : 2009/06/25

DATE OF TESTED : 2009/06/26

TEST / INSPECTION ITEMS : Vibration 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 15 pages, and no part of it may be abstracted or reproduced.

Test Engineer :

Willi Peng

Approval Signatory :

David Lee

Laboratory Head :

Chin Tai Chang



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 : B&K 4399, S/N:2158445

TEST ENVIRONMENT :

- Temperature : 22.4°C (25±10°C)
- Relative Humidity : 68.3% RH (60±20% RH)

SPECIMEN :

- Model : RTC-1000
- Quantity : 1 piece

TEST SPECIFICATION :

(1) FOR ASTM 4169-99

Random vibration test (Operation Test)

- Frequency : 1 Hz to 200 Hz
- PSD : 0.00005 g²/Hz (1 Hz)
0.01 g²/Hz (4 Hz)
0.01 g²/Hz (16Hz)
0.001 g²/Hz (40Hz)
0.001 g²/Hz (80 Hz)
0.00001 g²/Hz (200 Hz)
- Acceleration : 0.52 g rms
- Test Axis : X, Y, Z axis
- Test Time : 1 hr 30 mins (Each axis)
- Total Test Time : 4 hrs 30 mins

TESTING / INSPECTION REPORT

TEST SPECIFICATION :

(2) FOR MLT-STD-810F, Method 514.5

Random vibration test (Non-Operation Test)

Frequency : 20 Hz to 2000 Hz

PSD : 0.04 g²/Hz (20 Hz to 1000Hz)
 -6dB/octave (2000 Hz)

Acceleration : 7.69 g rms

Test Axis : X, Y, Z axis

Test Time : 1 hr (Each axis)

Total Test Time : 3 hrs

(3) FOR MLT-STD-810F, Method 514.5

Sine vibration test (Non-Operation Test)

Frequency : 5 Hz to 500 Hz

Displacement : 5.1 mm (5 Hz to 14 Hz)
 0.91 mm (33 Hz to 51.2 Hz)

Acceleration : 2 g (14 Hz to 33 Hz)
 5 g (51.2 Hz to 500 Hz)

Test Axis : X, Y, Z axis

Test Time : 30 mins (Each axis)

Total Test Time : 1 hr 30 mins

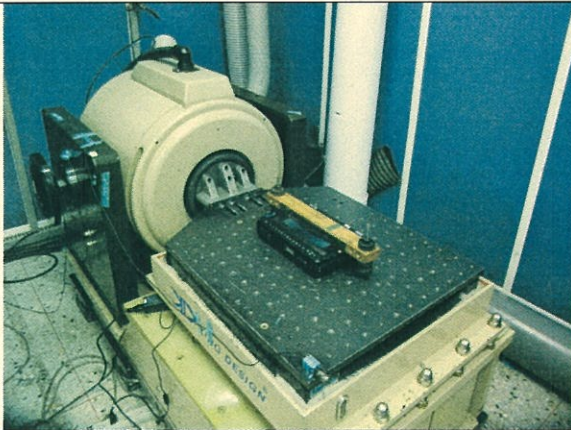
TEST RESULT :

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

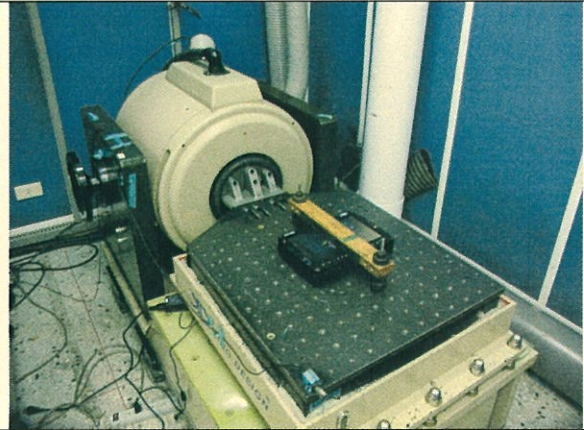
TESTING / INSPECTION REPORT

Testing photos (Operation Test)

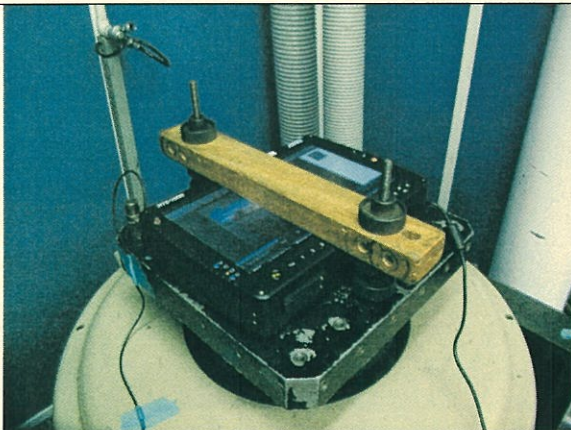
AXIS X



AXIS Y



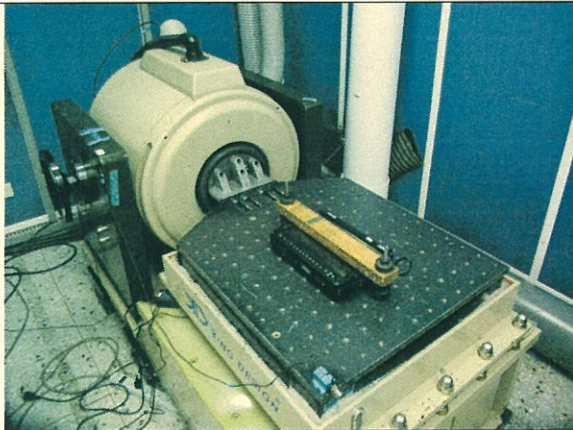
AXIS Z



TESTING / INSPECTION REPORT

Testing photos (Non-Operation Test)

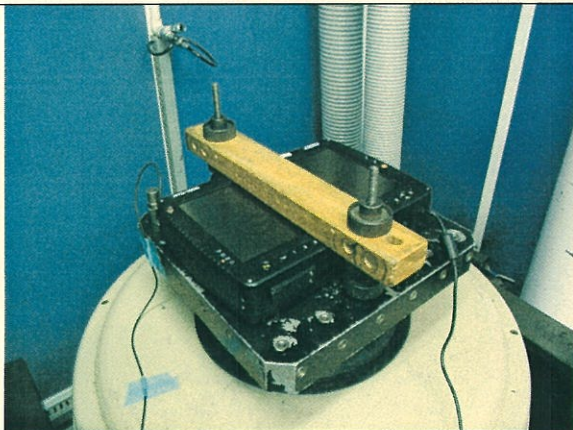
AXIS X



AXIS Y



AXIS Z



TESTING / INSPECTION REPORT

Testing photos

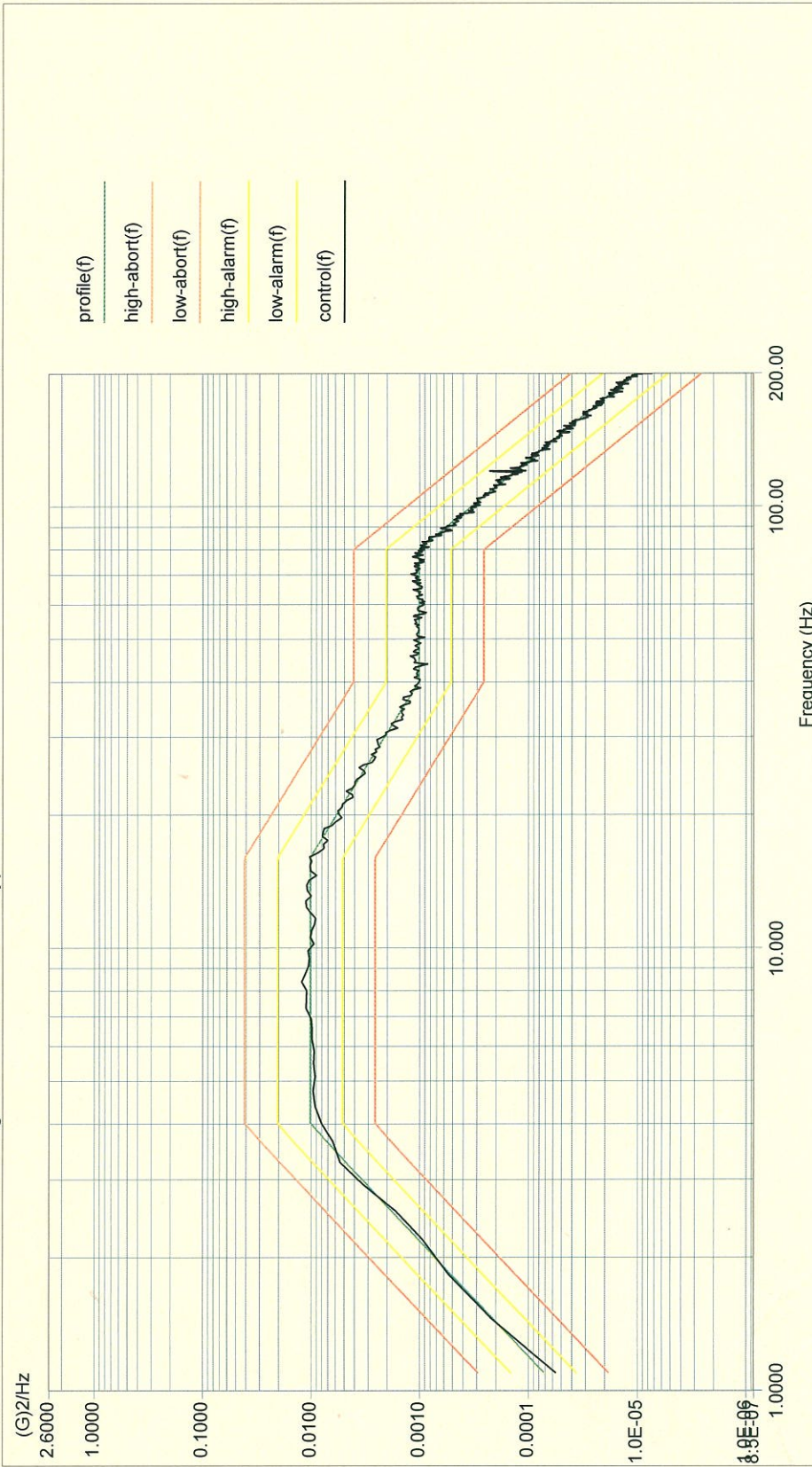
After test



Axis X

Project File Name: 研揚 1~200Hz 0.52 g rms.prj

Profile Name: 1~200Hz 0.52 g rms Test Type: Random Run Folder: .\Run Jun 25,2009 11-10-26



Level: 100 %

Control RMS: 0.518514 G Full Level Elapsed Time: 01:29:58 Lines: 900 Frame Time: 2.730667 Seconds

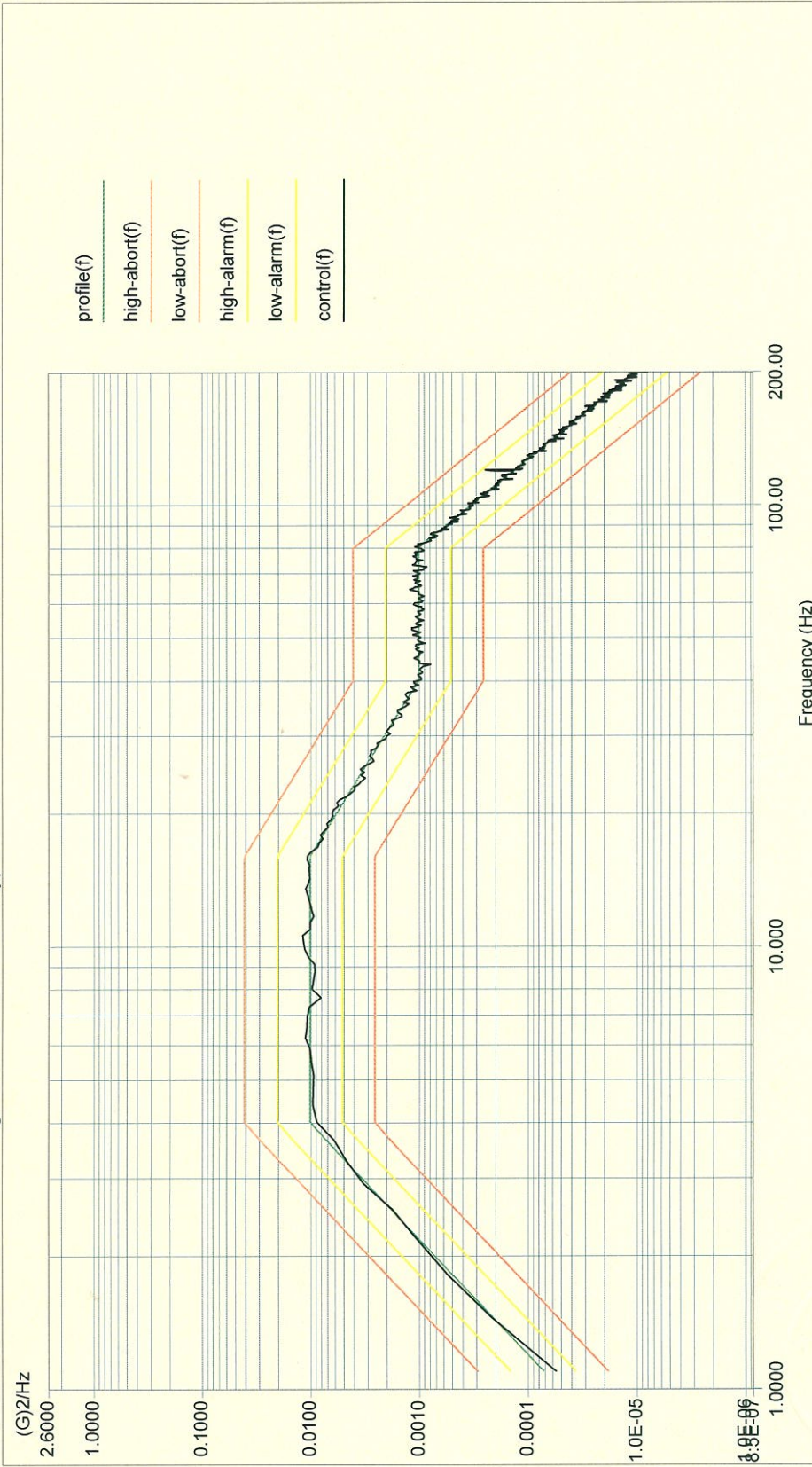
Demand RMS: 0.520982 G Remaining Time: 00:00:00 DOF: 154 dF: 0.366211 Hz

Data saved at 12:41:55 PM, Thursday, June 25, 2009 Report created at 12:41:56 PM, Thursday, June 25, 2009

Axis Y

Project File Name: 研揚 1~200Hz 0.52 g rms.prj

Profile Name: 1~200Hz 0.52 g rms Test Type: Random Run Folder: .\Run Jun 25,2009 09-36-04



Level: 100 %

Control RMS: 0.522083 G Full Level Elapsed Time: 01:29:58 Lines: 900 Frame Time: 2.730667 Seconds

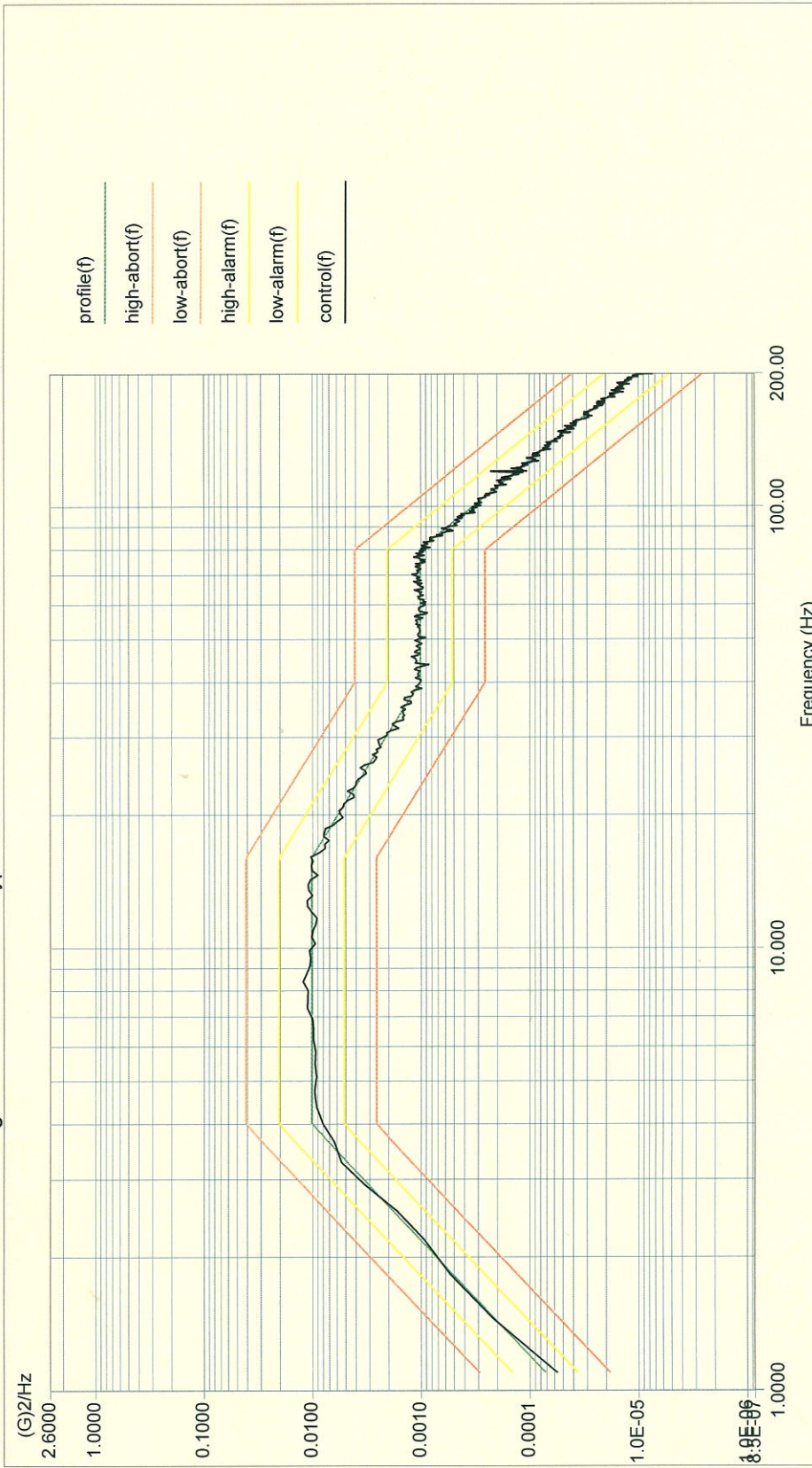
Demand RMS: 0.520982 G Remaining Time: 00:00:00 DOF: 154 dF: 0.366211 Hz

Data saved at 11:07:34 AM, Thursday, June 25, 2009 Report created at 11:07:35 AM, Thursday, June 25, 2009

Axis Z

Project File Name: 研揚 1~200Hz 0.52 g rms.prj

Profile Name: 1~200Hz 0.52 g rms Test Type: Random Run Folder: .\Run Jun 25,2009 13-20-12



Level: 100 %

Control RMS: 0.523977 G Full Level Elapsed Time: 01:29:58 Lines: 900 Frame Time: 2.730667 Seconds

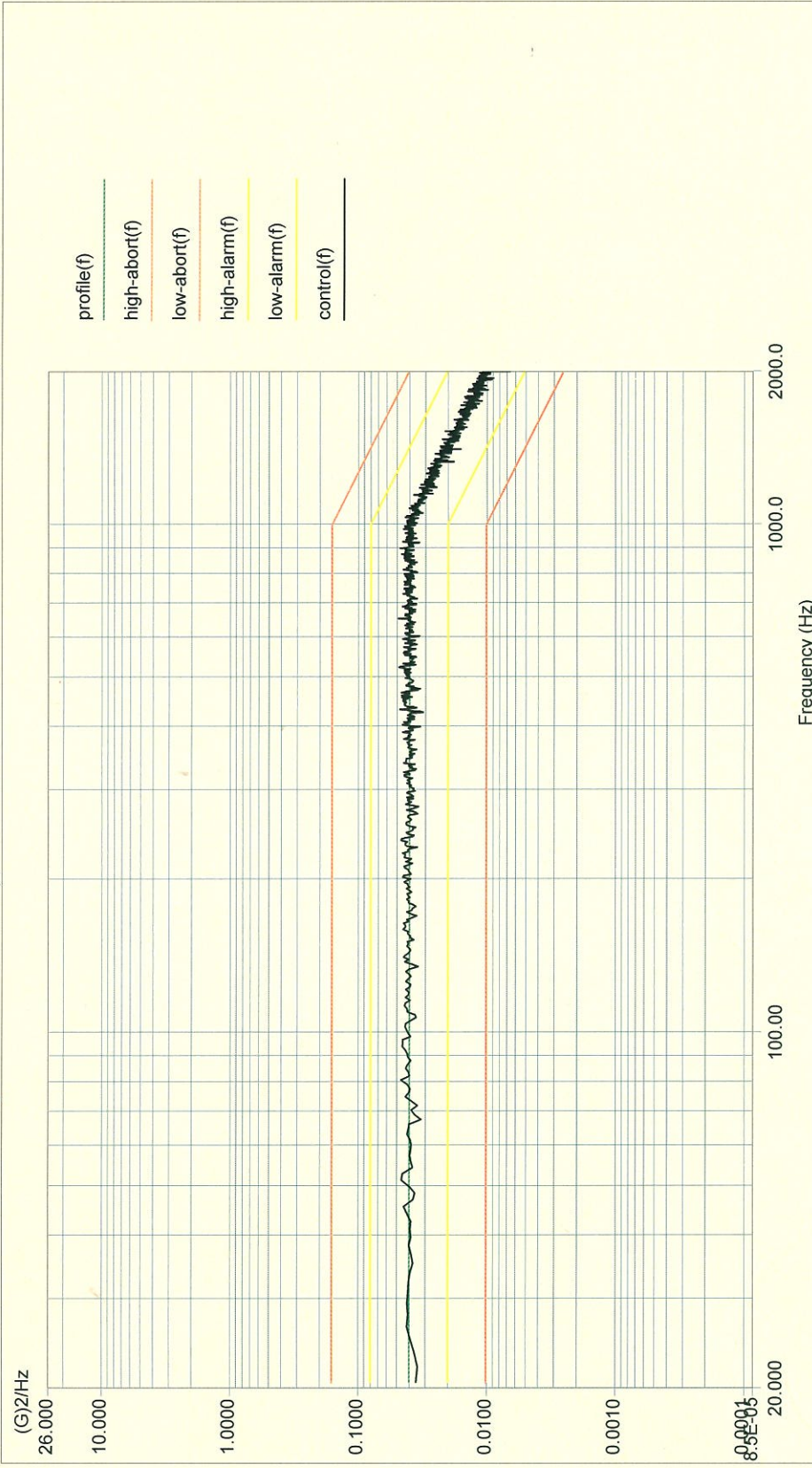
Demand RMS: 0.520982 G Remaining Time: 00:00:00 DOF: 154 dF: 0.366211 Hz

Data saved at 02:51:36 PM, Thursday, June 25, 2009 Report created at 02:51:37 PM, Thursday, June 25, 2009

Axis X

Project File Name: 研揚 20~2000Hz 7.69g rms.prj

Profile Name: 20~2000Hz 7.69g rms Test Type: Random Run Folder: .\Run Jun 26,2009 08-33-35



Level: 100 %

Control RMS: 7.708728 G Full Level Elapsed Time: 00:59:59 Lines: 1800 Frame Time: 0.682667 Seconds

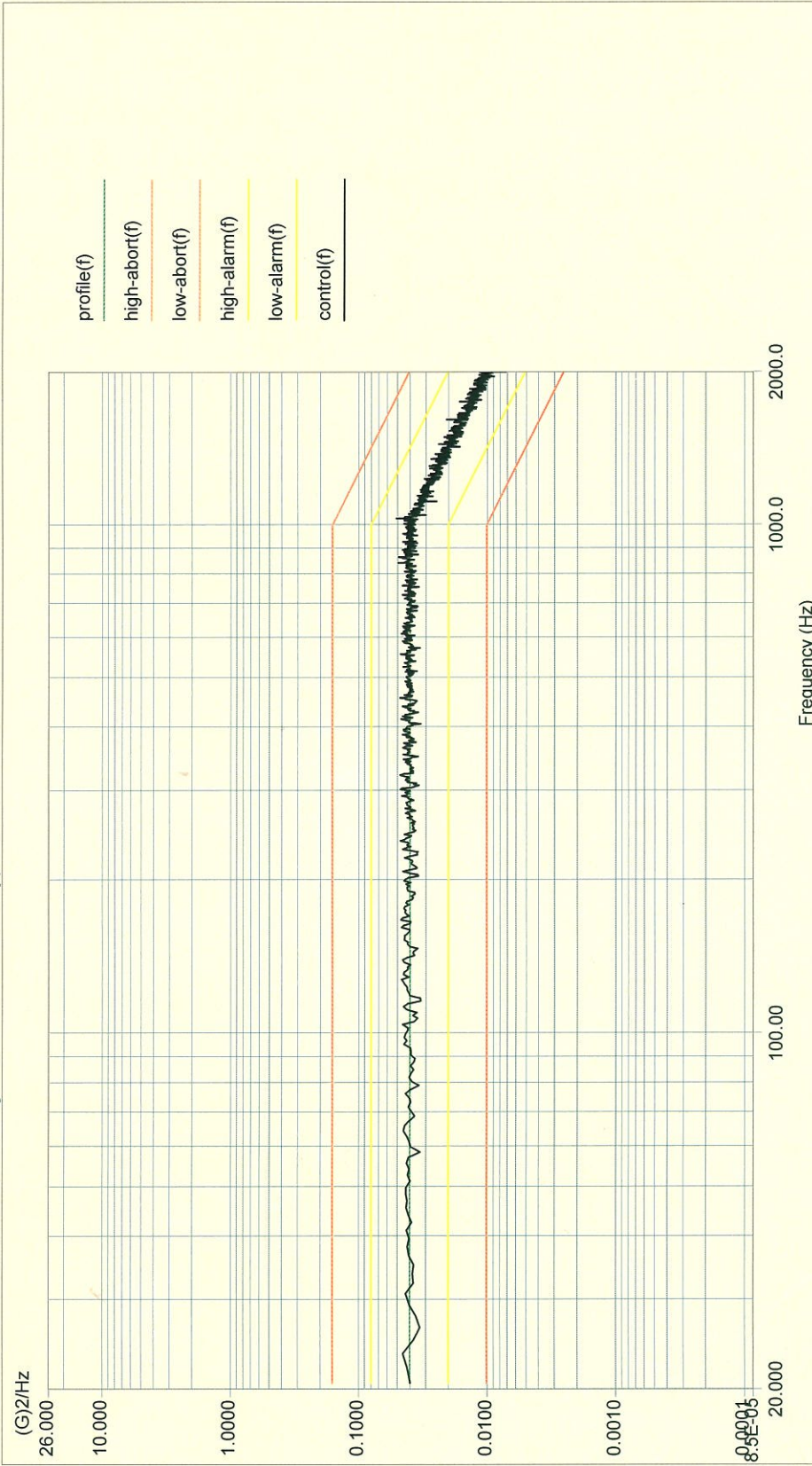
Demand RMS: 7.699472 G Remaining Time: 00:00:00 DOF: 154 dF: 1.464844 Hz

Data saved at 09:34:32 AM, Friday, June 26, 2009 Report created at 09:34:37 AM, Friday, June 26, 2009

Axis Y

Project File Name: 研揚 20~2000Hz 7.69 g rms.prj

Profile Name: 20~2000Hz 7.69g rms Test Type: Random Run Folder: .\Run Jun 26,2009 09:36-09



Level: 100 %

Control RMS: 7.718989 G Full Level Elapsed Time: 00:59:59 Lines: 1800 Frame Time: 0.682667 Seconds

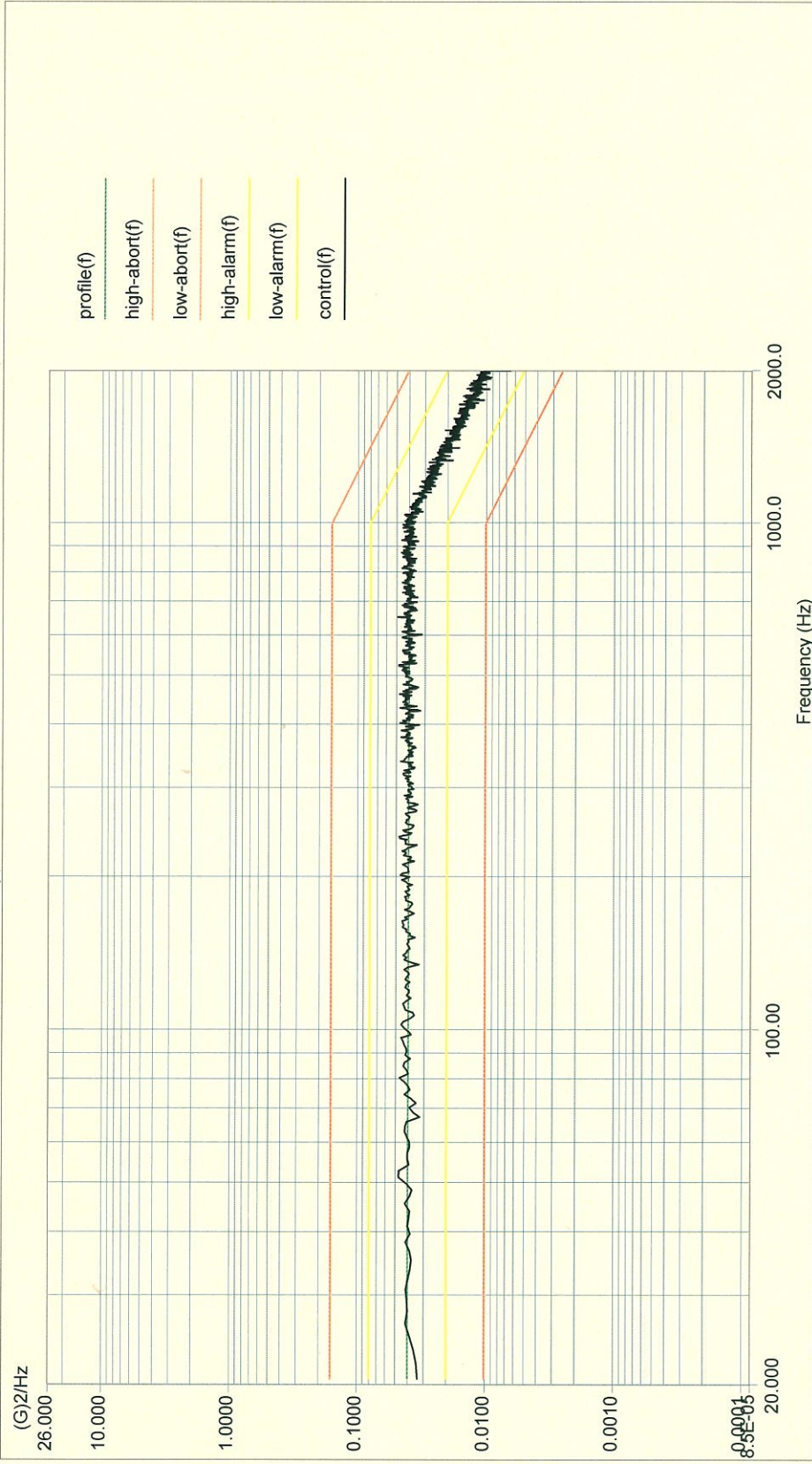
Demand RMS: 7.699472 G Remaining Time: 00:00:00 DOF: 154 dF: 1.464844 Hz

Data saved at 10:37:06 AM, Friday, June 26, 2009 Report created at 10:37:07 AM, Friday, June 26, 2009

Axis Z

Project File Name: 研揚 20~2000Hz 7.69g rms.prj

Profile Name: 20~2000Hz 7.69g rms Test Type: Random Run Folder: .\Run Jun 25,2009 15-07-12



Level: 100 %

Control RMS: 7.713074 G Full Level Elapsed Time: 00:59:59 Lines: 1800 Frame Time: 0.682667 Seconds

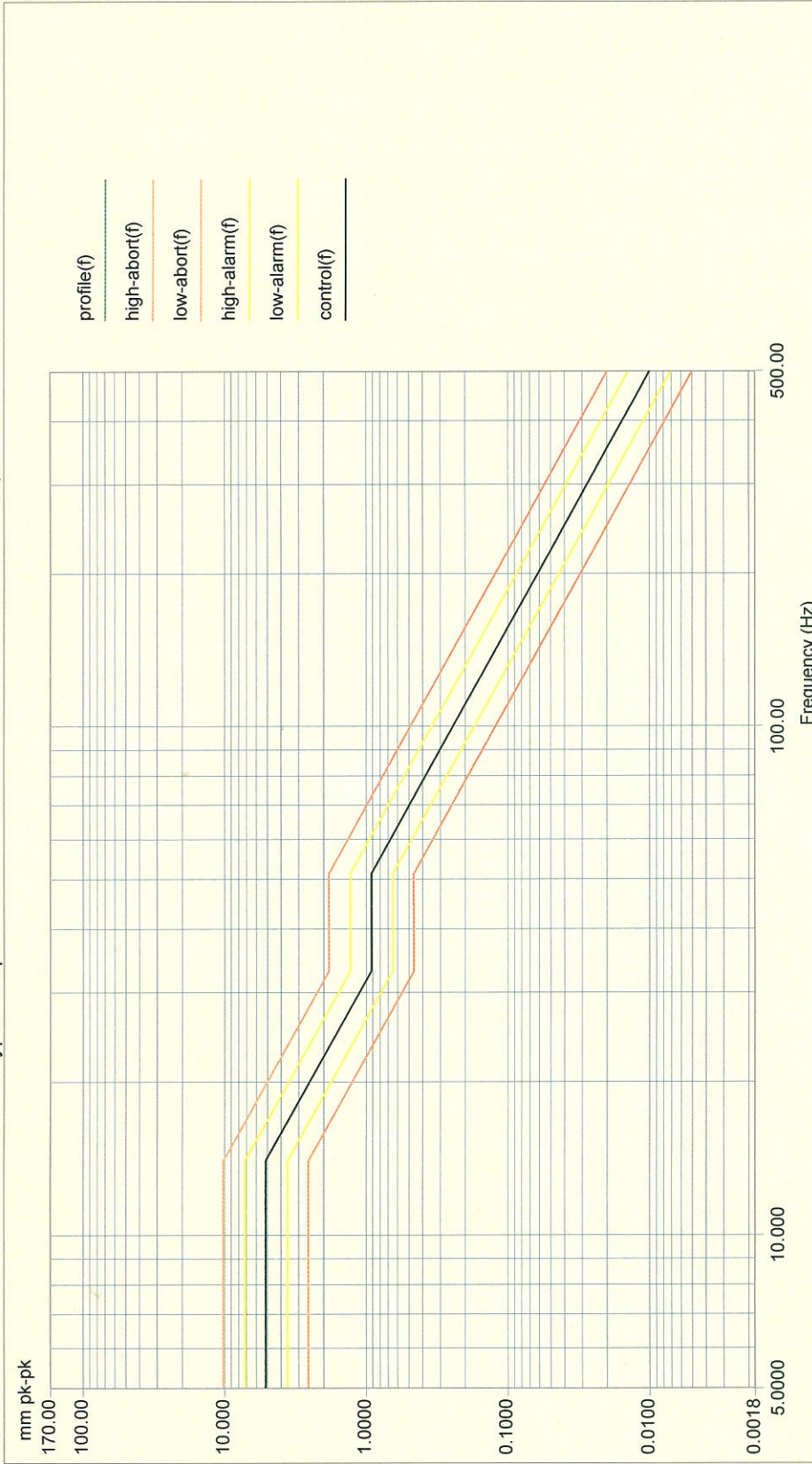
Demand RMS: 7.699472 G Remaining Time: 00:00:00 DOF: 154 dF: 1.464844 Hz

Data saved at 04:08:05 PM, Thursday, June 25, 2009 Report created at 04:08:06 PM, Thursday, June 25, 2009

Axis X

Project File Name: 研揚 5~500Hz.prj

Profile Name: 5~500Hz Test Type: Swept Sine Run Folder: .\Run Jun 26, 2009 10-58-14

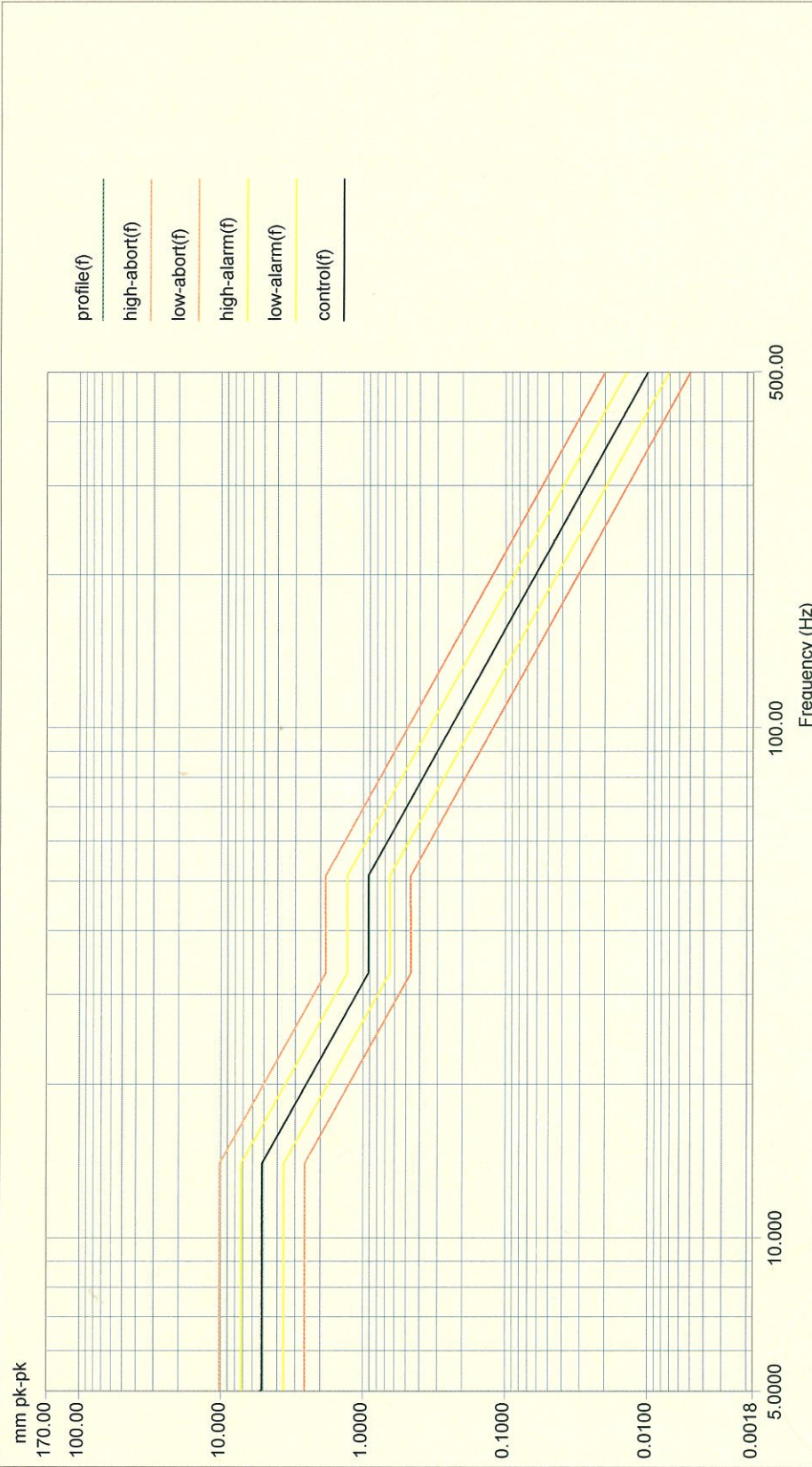


Level: 100 % Control Peak: 5.019120 G Full Time: 00:30:10 Sweep Type: Logarithmic
 Frequency: 499.933289 Hz Demand Peak: 4.999996 G Time Remaining: 00:00:00 Sweep Rate: 0.221 Oct/Min
 Data saved at 11:28:29 AM, Friday, June 26, 2009 Report created at 11:28:29 AM, Friday, June 26, 2009

Axis Y

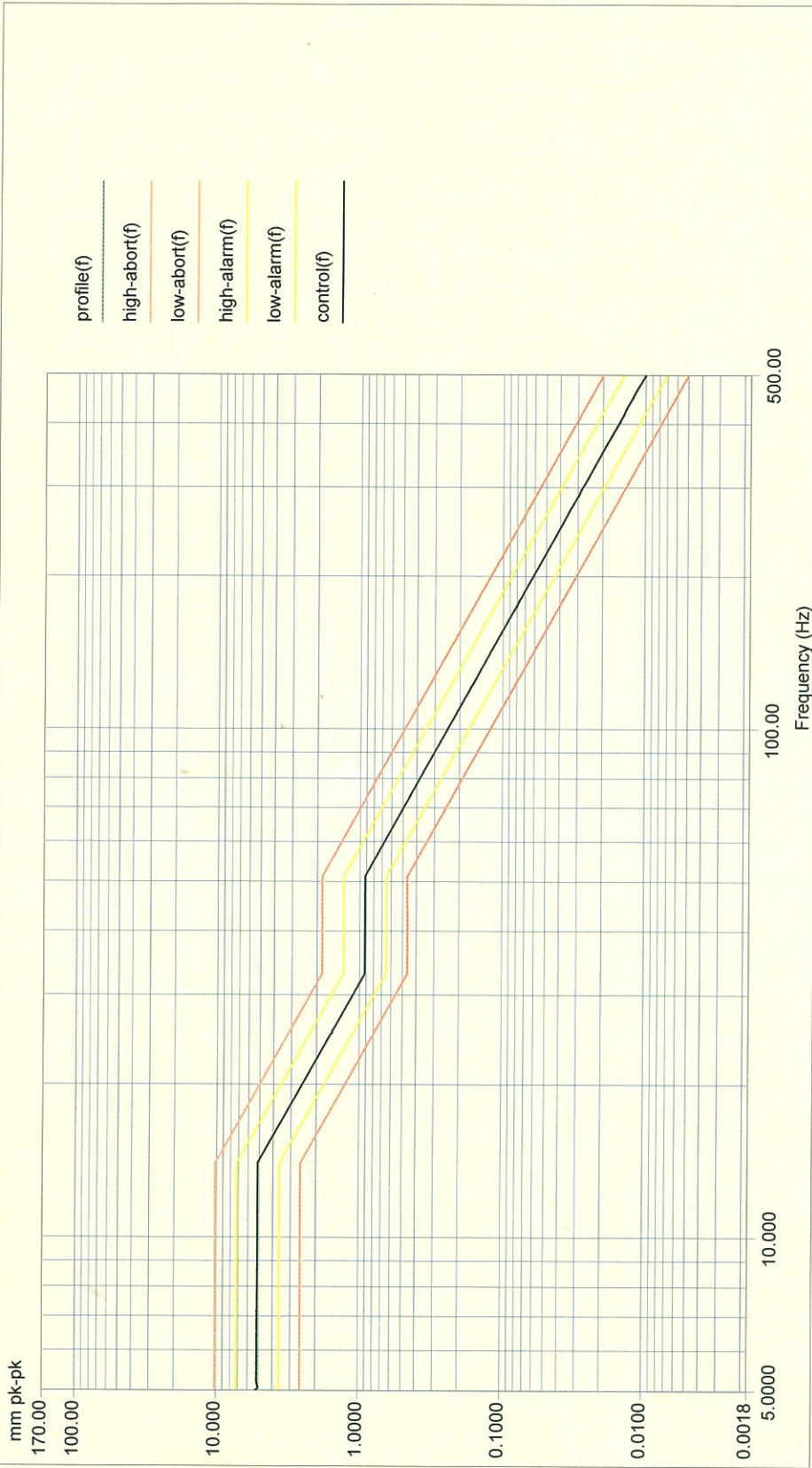
Project File Name: 研揚 5~500Hz.prj

Profile Name: 5~500Hz Test Type: Swept Sine Run Folder: .\Run Jun 26,2009 11-30-19



Level: 100 % Control Peak: 5.016796 G Full Level Time: 00:30:10 Sweep Type: Logarithmic
 Frequency: 499.946869 Hz Demand Peak: 4.9999996 G Time Remaining: 00:00:00 Sweep Rate: 0.221 Oct/Min
 Data saved at 12:00:34 PM, Friday, June 26, 2009 Report created at 12:00:35 PM, Friday, June 26, 2009

Axis Z
 Project File Name: 研揚 5~500Hz.prj
 Profile Name: 5~500Hz Test Type: Swept Sine Run Folder: .\Run Jun 26,2009 15-29-22



Level: 100 % Control Peak: 4.994669 G Full Level Time: 00:30:10 Sweep Type: Logarithmic
 Frequency: 499.892548 Hz Demand Peak: 4.999996 G Time Remaining: 00:00:00 Sweep Rate: 0.221 Oct/Min
 Data saved at 03:59:37 PM, Friday, June 26, 2009 Report created at 03:59:38 PM, Friday, June 26, 2009

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