

TESTING / INSPECTION REPORT

REPORT NO : VT-091023-2

COMPANY : AAEON Technology Inc.

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SPECIMEN : RTC-1000A

DATE OF RECEIVED : 2009/10/21

DATE OF TESTED : 2009/10/21

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 :	<i>Angus Wu</i>	
Approval Signatory :	<i>2009.10.26 David Lee</i>	Laboratory Head :
		<i>Hsin Tai Chang</i>



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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-1000A
- 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

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TEST SPECIFICATION :

(2) 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

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

Random vibration test (Non-Operation Test)

Frequency : 20 Hz to 2,000 Hz

PSD : 0.04 g²/Hz (20 Hz to 1,000Hz)
-6dB/octave (2,000 Hz)

Acceleration : 7.69 g rms

Test Axis : X, Y, Z axis

Test Time : 1 hr (Each axis)

Total Test Time : 3 hrs

TEST RESULT :

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

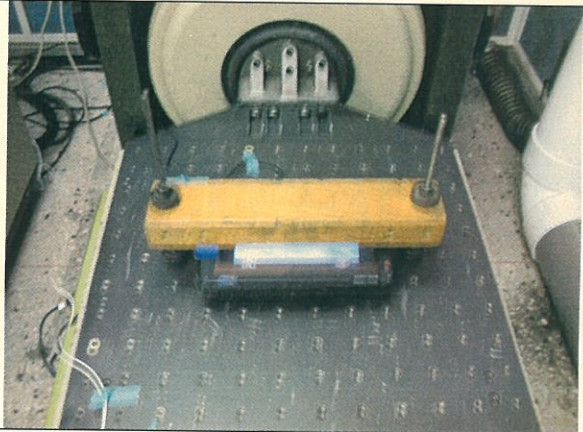
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Testing photos (Operation Test)

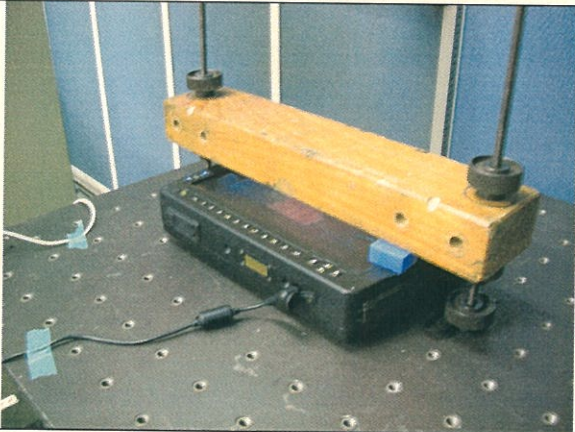
AXIS X



AXIS Y



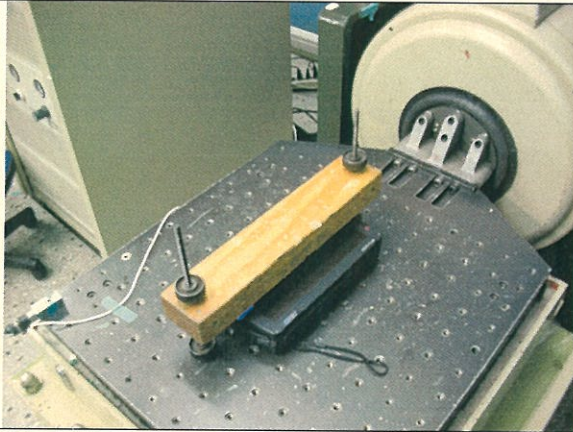
AXIS Z



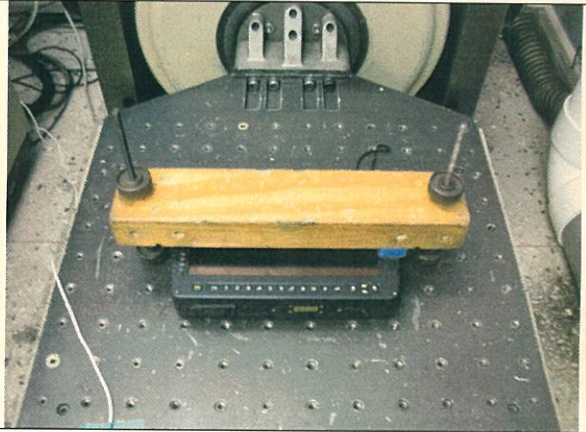
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Testing photos (Non-Operation Test)

AXIS X



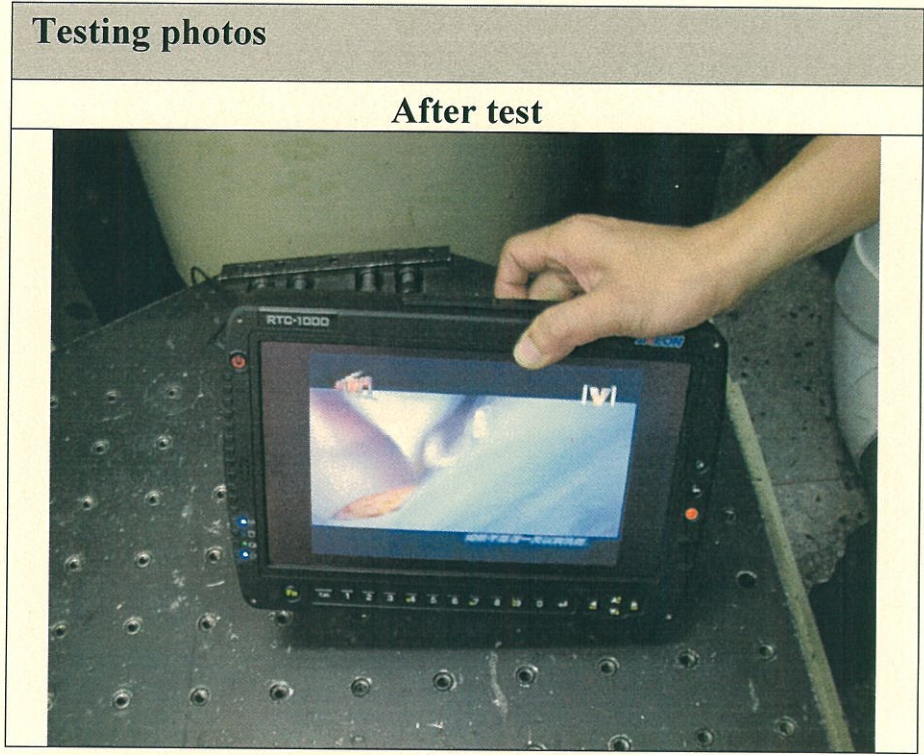
AXIS Y



AXIS Z



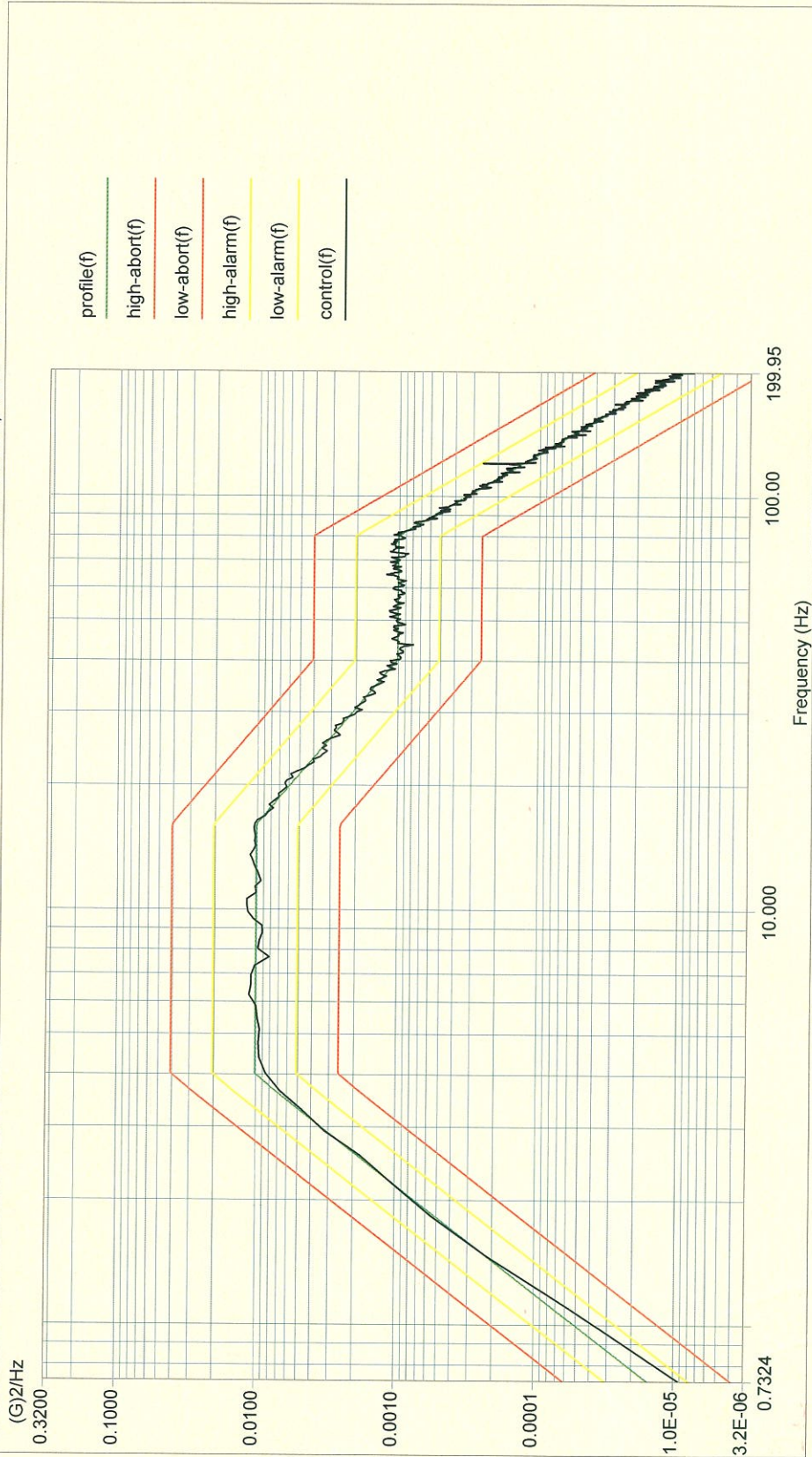
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Axis x

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

Profile Name: 1~200Hz 0.52 g rms Test Type: Random Run Folder: .Run Oct 20,2009 10-37-19



Level: 100 %

Control RMS: 0.522908 G Full Level Elapsed Time: 01:29:58 Lines: 900 Frame Time: 2.730667 Seconds

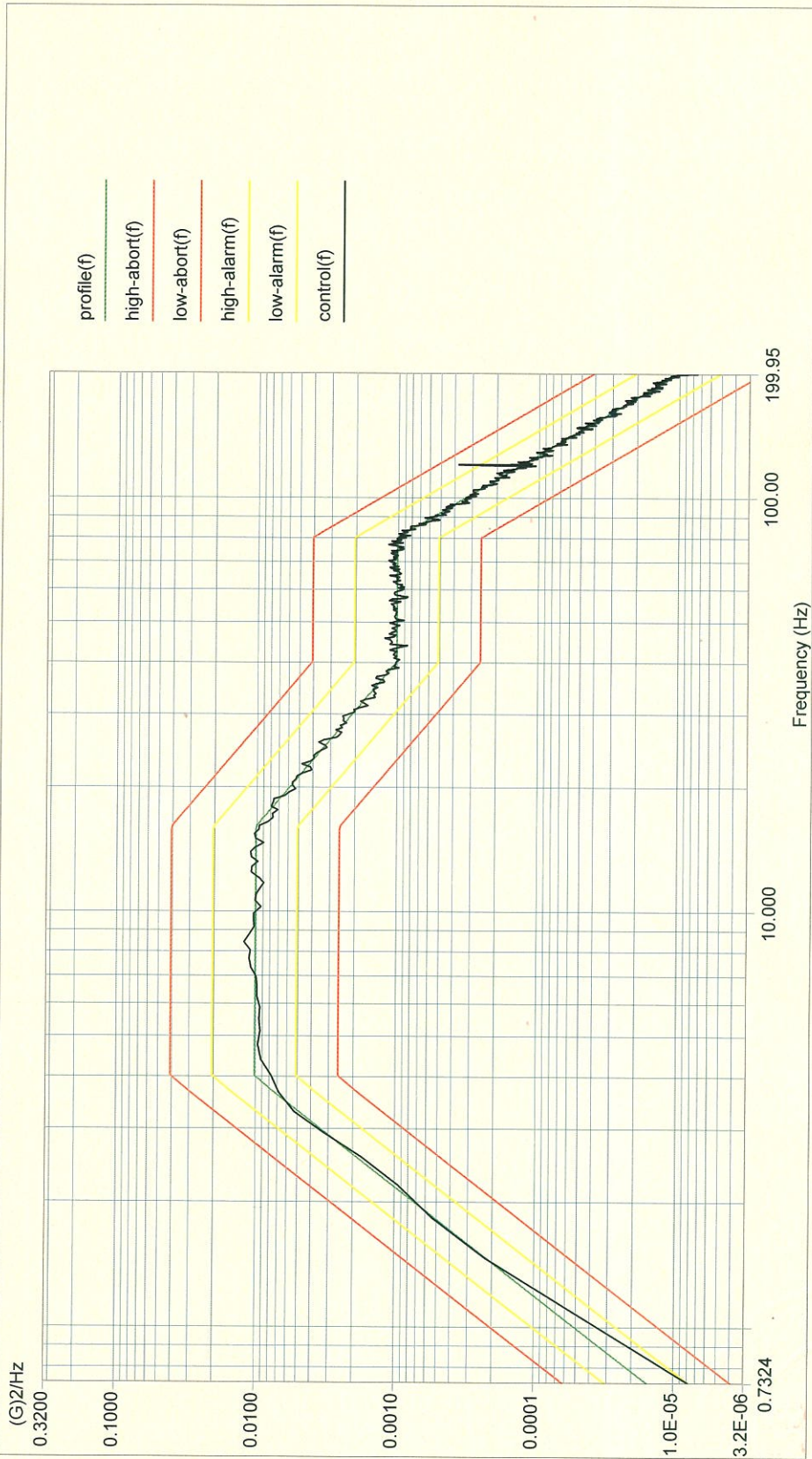
Demand RMS: 0.520982 G Remaining Time: 00:00:00 DOF: 154 dF: 0.366211 Hz

Data saved at 12:08:46 PM, Tuesday, October 20, 2009 Report created at 12:08:47 PM, Tuesday, October 20, 2009

Axis Y

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

Profile Name: 1~200Hz 0.52 g rms Test Type: Random Run Folder: .Run Oct 20,2009 12-10-53



Level: 100 %

Control RMS: 0.518596 G Full Level Elapsed Time: 01:29:58 Lines: 900 Frame Time: 2.730667 Seconds

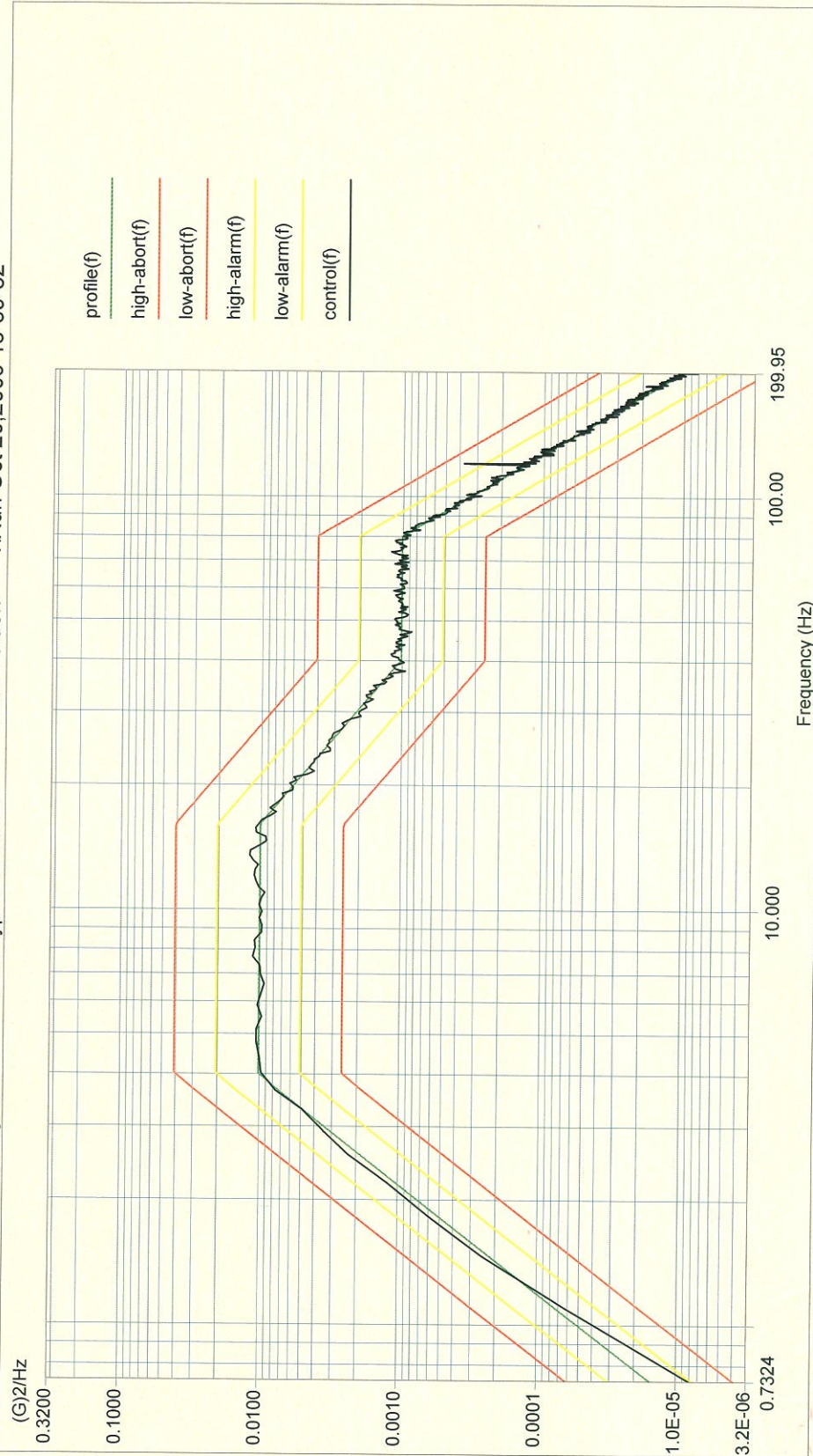
Demand RMS: 0.520982 G Remaining Time: 00:00:00 DOF: 154 dF: 0.366211 Hz

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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 Oct 20,2009 13-59-32



Level: 100 %

Control RMS: 0.524148 G Full Level Elapsed Time: 01:29:58 Lines: 900 Frame Time: 2.730667 Seconds

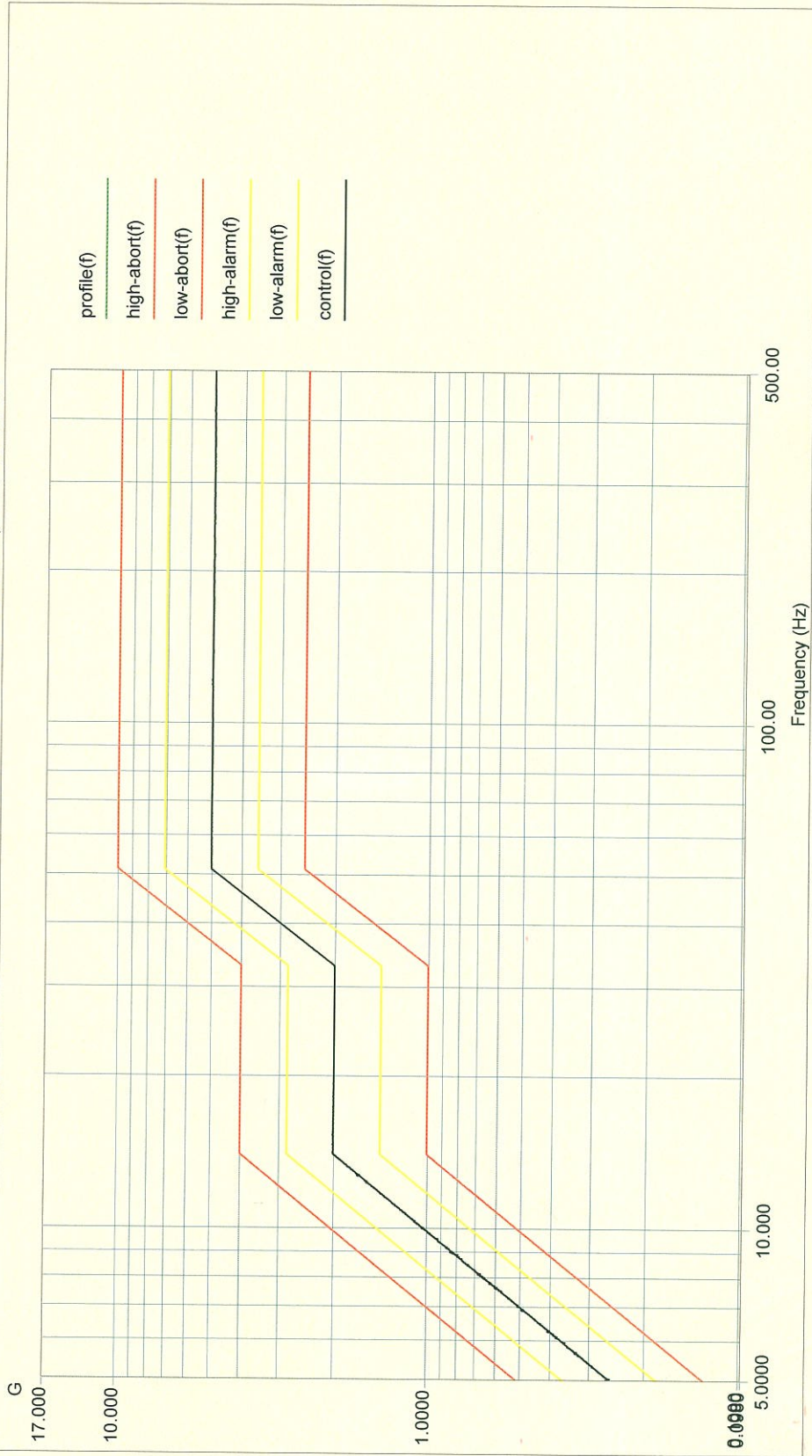
Demand RMS: 0.520982 G Remaining Time: 00:00:00 DOF: 154 dF: 0.366211 Hz

Data saved at 03:30:59 PM, Tuesday, October 20, 2009 Report created at 03:30:59 PM, Tuesday, October 20, 2009

Axis X

Project File Name: 研揚 5~500 Hz 0.2inch.pri

Profile Name: Test Type: Swept Sine Run Folder: .\Run Oct 21,2009 10-00-31



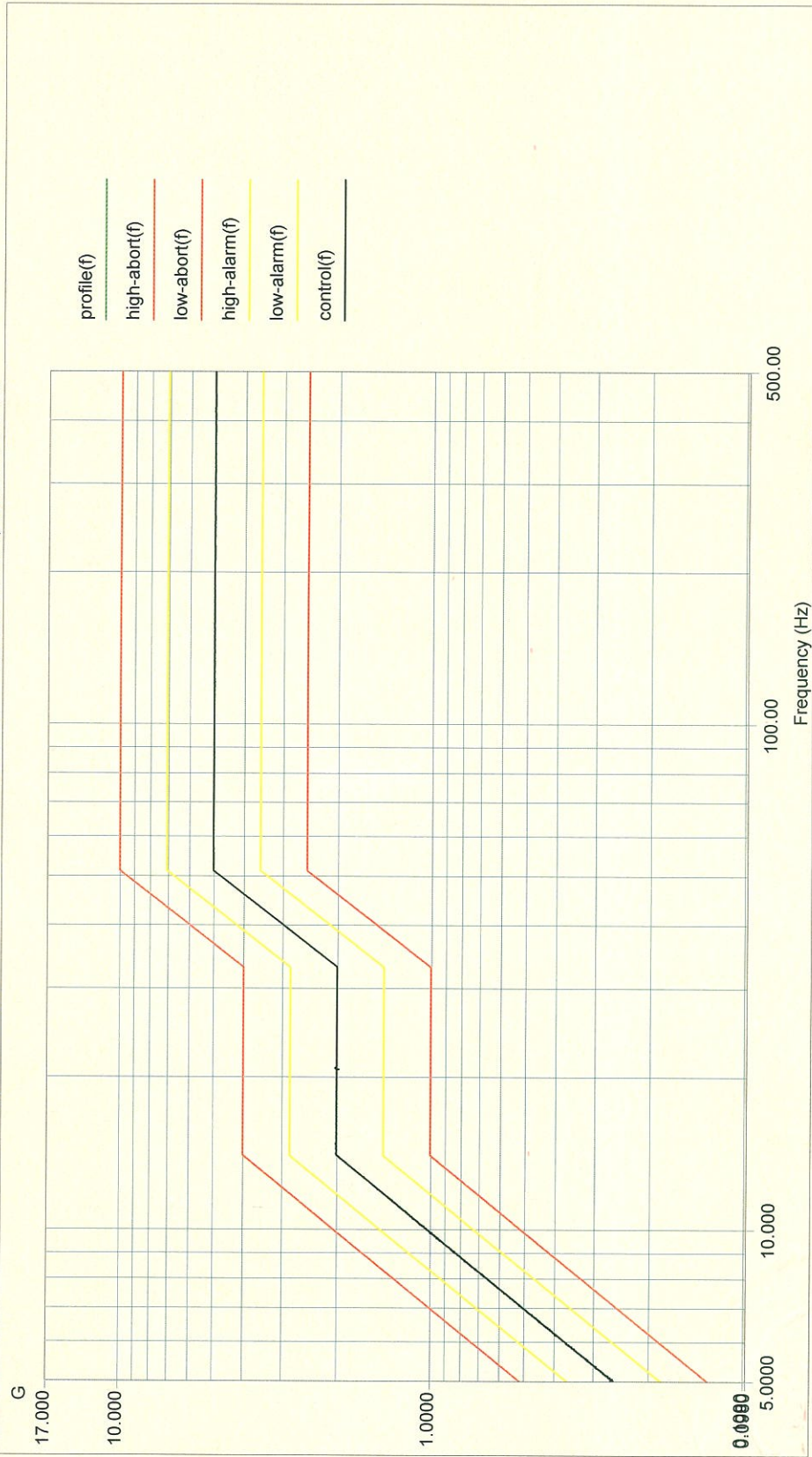
Level: 100 % Control Peak: 5.003919 G Full Level Time: 00:30:10 Sweep Type: Logarithmic
 Frequency: 499.933289 Hz Demand Peak: 5.000000 G Time Remaining: 00:00:00 Sweep Rate: 0.221 Oct/Min
 Data saved at 10:30:46 AM, Wednesday, October 21, 2009 Report created at 10:30:46 AM, Wednesday, October 21, 2009

Axis Y

Project File Name: 研揚 5~500 Hz 0.2inch.prl

Profile Name: Test Type: Swept Sine

Run Folder: .Run Oct 21, 2009 09-28-27



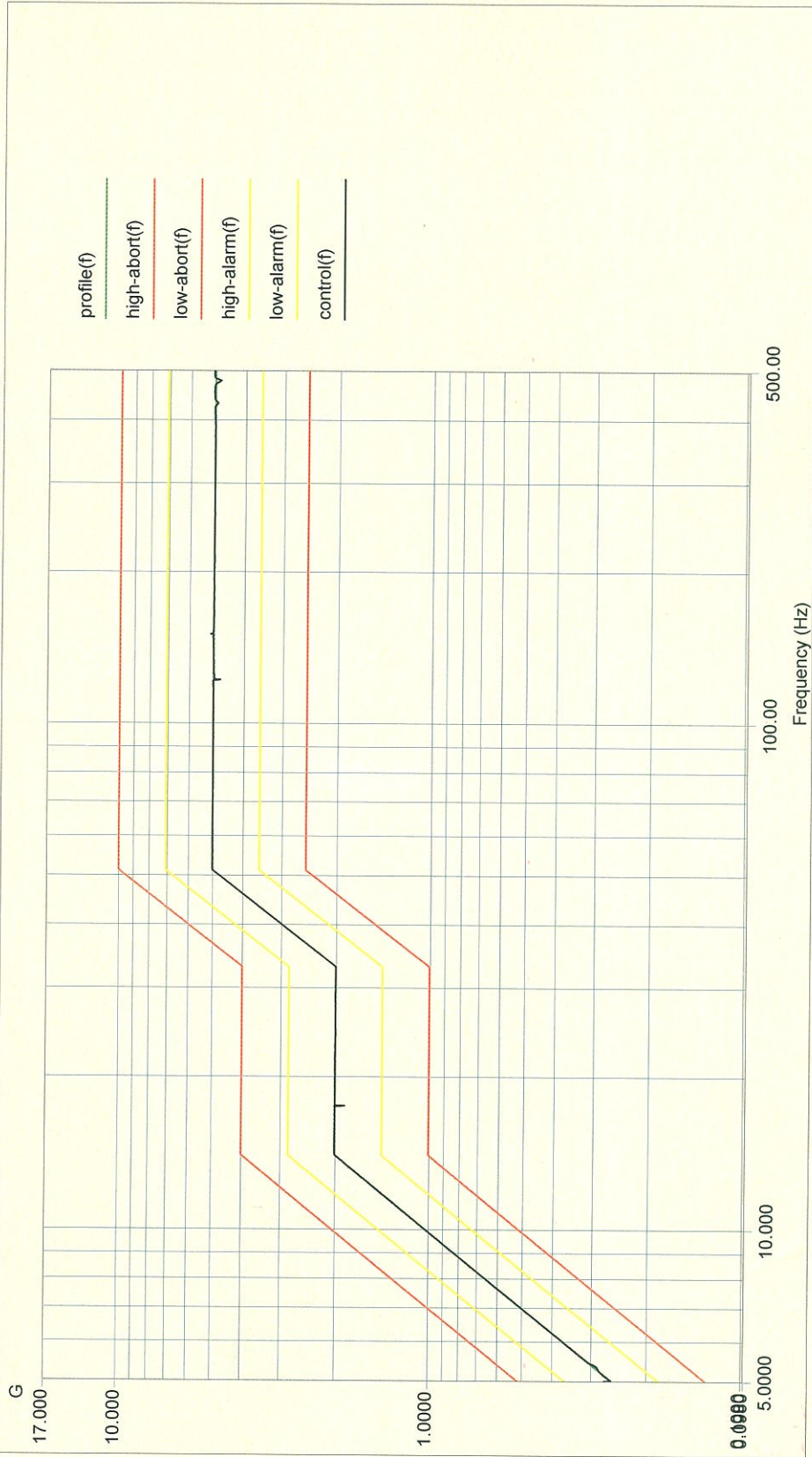
Level: 100 % Control Peak: 5.001413 G Full Level Time: 00:30:10 Sweep Type: Logarithmic
 Frequency: 499.933289 Hz Demand Peak: 5.000000 G Time Remaining: 00:00:00 Sweep Rate: 0.221 Oct/Min
 Data saved at 09:58:43 AM, Wednesday, October 21, 2009 Report created at 09:58:43 AM, Wednesday, October 21, 2009

Axis Z

Project File Name: 研揚 5~500 Hz 0.2inch.prg

Profile Name: Test Type: Swept Sine

Run Folder: .\Run Oct 21, 2009 08-33-58

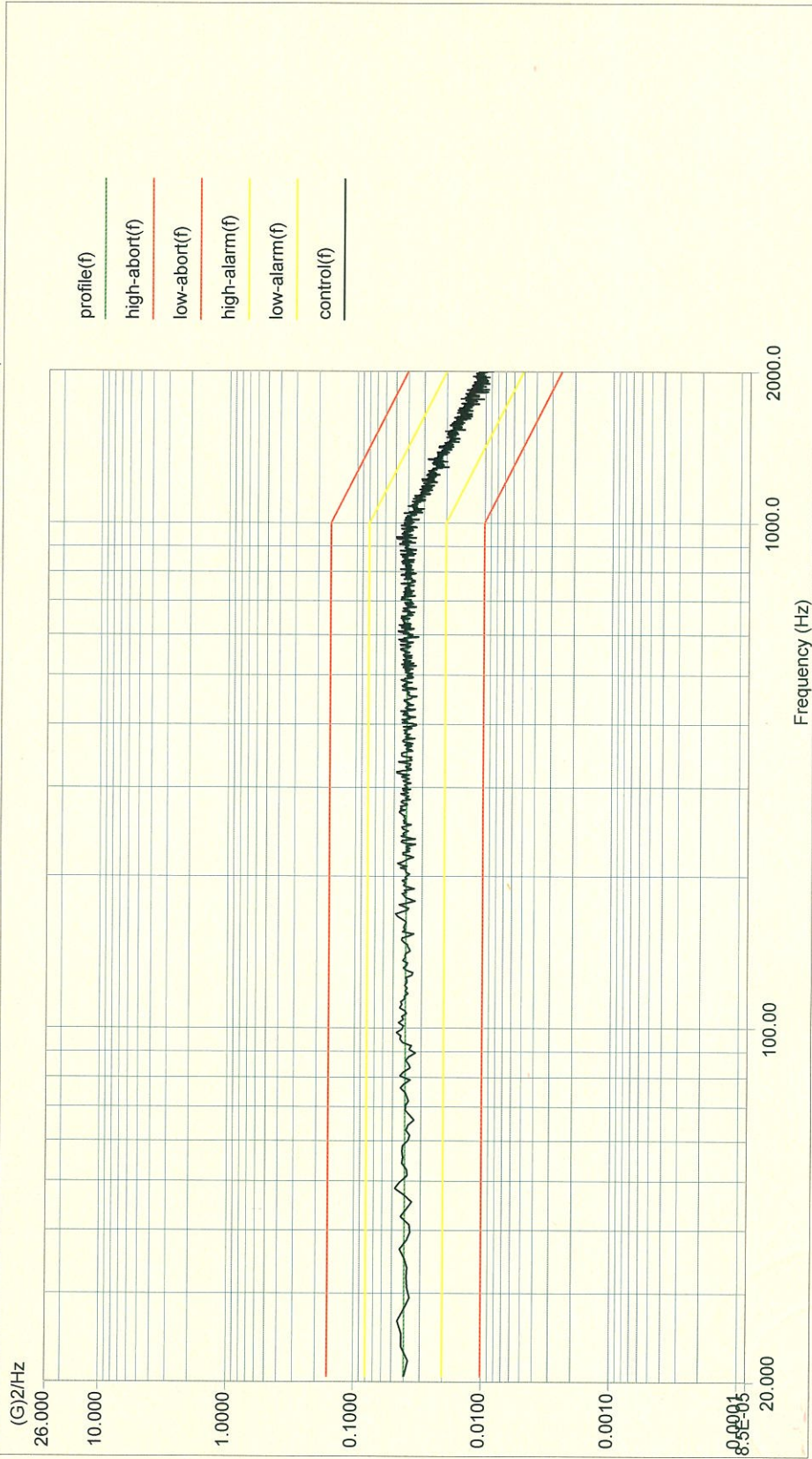


Level: 100 % Control Peak: 5.033362 G Full Level Time: 00:30:10 Sweep Type: Logarithmic
 Frequency: 499.933289 Hz Demand Peak: 5.000000 G Time Remaining: 00:00:00 Sweep Rate: 0.221 Oct/Min
 Data saved at 09:04:13 AM, Wednesday, October 21, 2009 Report created at 09:04:31 AM, Wednesday, October 21, 2009

Axis X

Project File Name: 研揚 20~2,000Hz.prj

Profile Name: 20~2,000 Hz 7.69g rms Test Type: Random Run Folder: .\Run Oct 21, 2009 10-42-49



Level: 100 %

Control RMS: 7.706641 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 11:43:52 AM, Wednesday, October 21, 2009 Report created at 11:43:52 AM, Wednesday, October 21, 2009

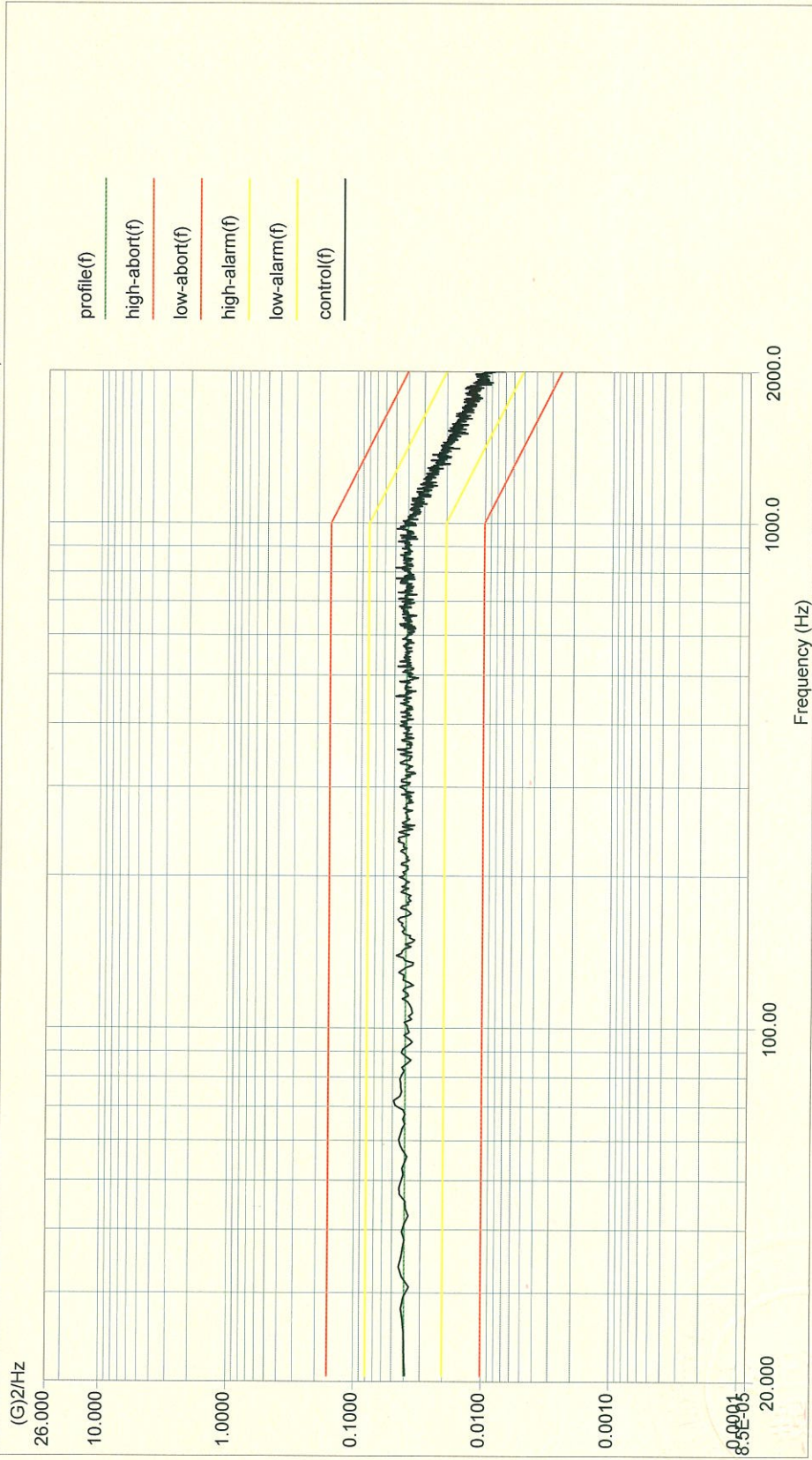
Axis Y

Project File Name: 研揚 20~2,000Hz.prj

Profile Name: 20~2,000 Hz 7.69g rms

Test Type: Random

Run Folder: .\Run Oct 21, 2009 11-52-40



Level: 100 %

Control RMS: 7.691761 G Full Level Elapsed Time: 00:59:57 Lines: 1800 Frame Time: 0.682667 Seconds

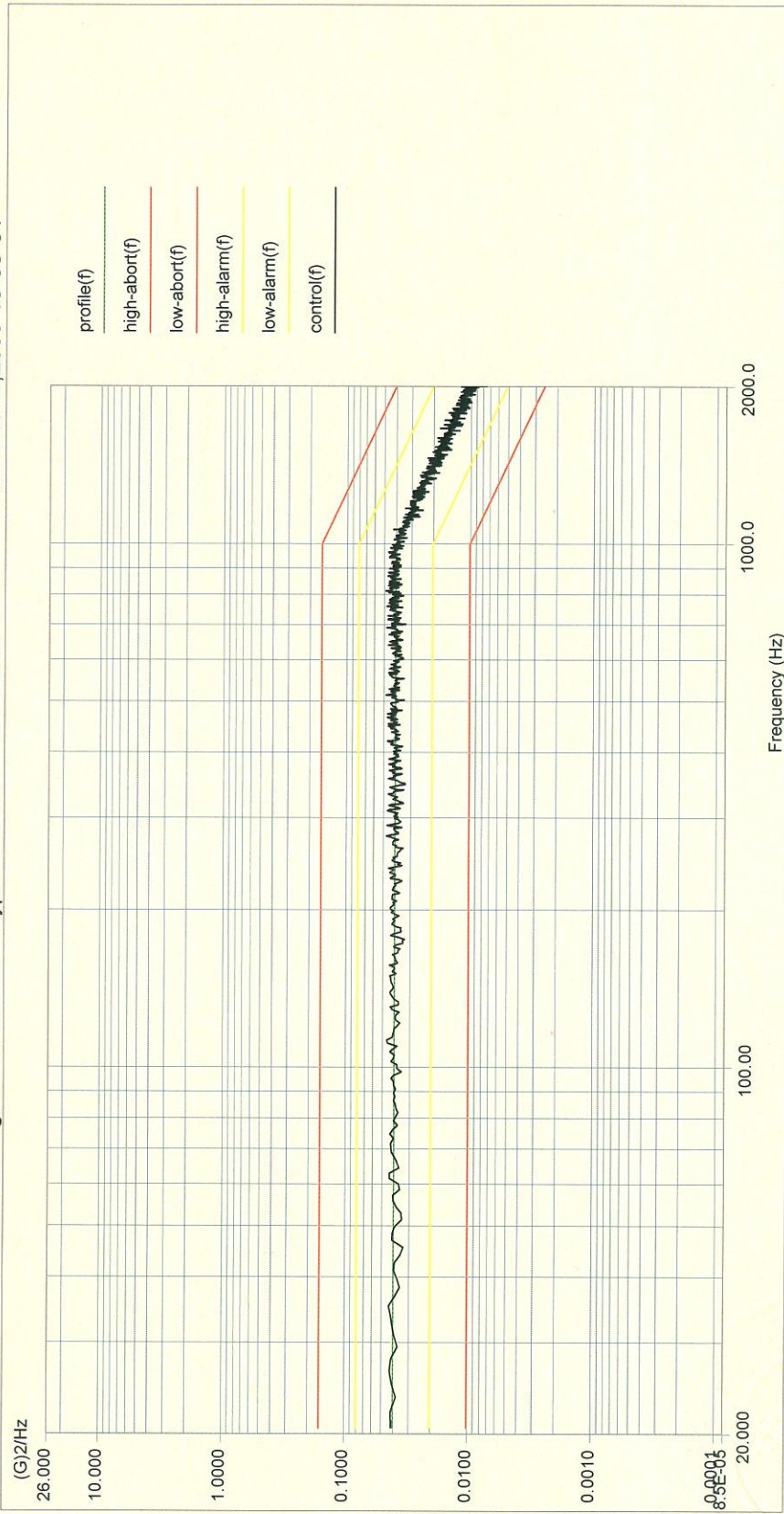
Demand RMS: 7.699472 G Remaining Time: 00:00:00 DOF: 154 dF: 1.464844 Hz

Data saved at 01:00:48 PM, Wednesday, October 21, 2009 Report created at 01:00:48 PM, Wednesday, October 21, 2009

Axis Z

Project File Name: 研揚 20~2,000Hz.prj

Profile Name: 20~2,000 Hz 7.69g rms Test Type: Random Run Folder: .\Run Oct 21, 2009 13-36-01



Level: 100 %

Control RMS: 7.712473 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 02:37:02 PM, Wednesday, October 21, 2009 Report created at 02:37:03 PM, Wednesday, October 21, 2009

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