

TESTING / INSPECTION REPORT

REPORT NO : VT-100428-1

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SPECIMEN : RTC-1000D1(with 2.5"HDD)
DATE OF RECEIVED : 2010/04/23
DATE OF TESTED : 2010/04/28

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 14 pages, and no part of it may be abstracted or reproduced.

Test Engineer :	<i>Erason Chen</i>	
Approval Signatory :	<i>David Lee</i>	Laboratory Head : <i>Hsin Tai Chang</i>



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TESTING EQUIPMENT :

1. Vibration Tester : KING DESIGN KD-9363EM-1000F2K-50N120,
S/N : GUG02102091
2. Controller : DACTRON FRONT-End Box, S/N:6329253
3. Control Accelerometer : B&K 4399, S/N:2158444

TEST ENVIRONMENT :

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

SPECIMEN :

- Model : RTC-1000D1(with 2.5"HDD)
- 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	√	— —	— —

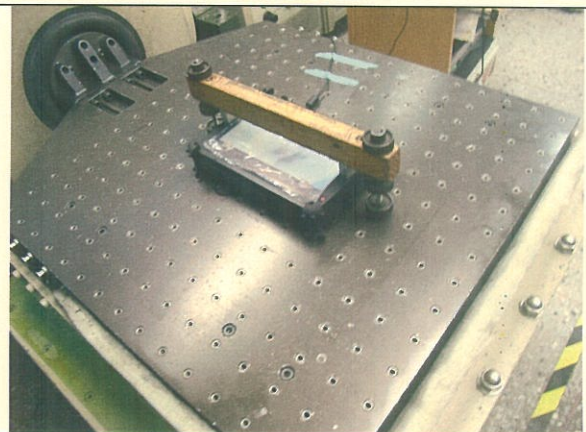
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Testing photos (Operation Test)

Before Test



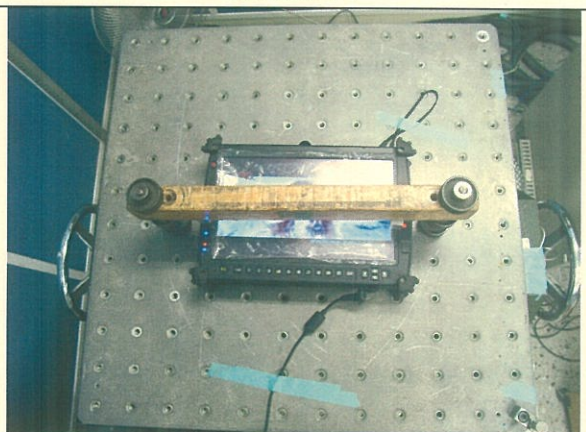
AXIS X



AXIS Y



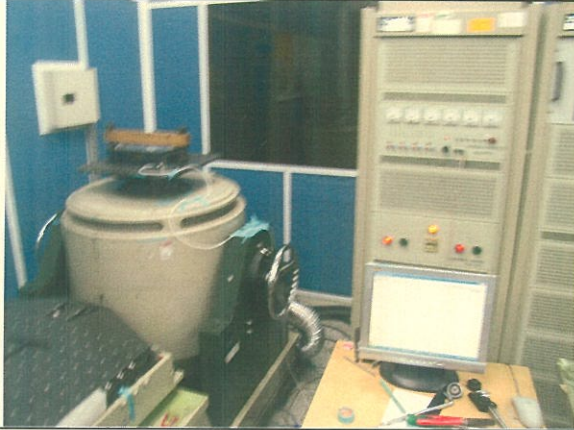
AXIS Z



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Testing photos (Non-Operation Test)

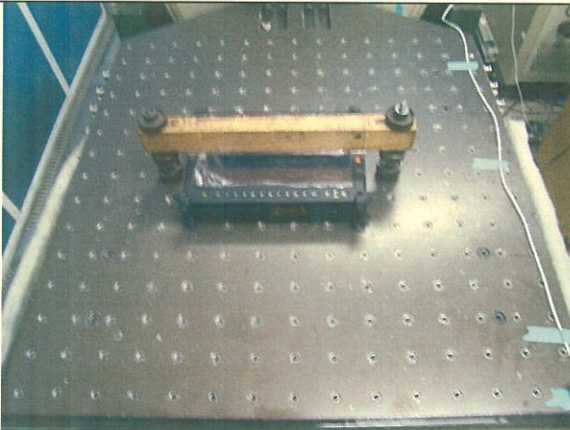
Before Test



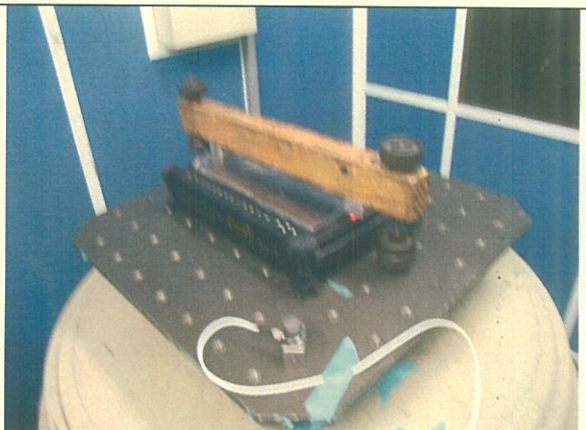
AXIS X



AXIS Y



AXIS Z



Axis X

Project File Name: 研揚 1-200Hz 0.52grms.prj

Profile Name: 研揚 1-200Hz 0.52grms.prj Test Type: Random Run Folder: .\RunFolder Apr 23, 2010 14-17-55



Level: 100 %

Control RMS: 0.518842 gn Full Level Elapsed Time: 01:30:14 Lines: 800 Frame Time: 3.200000 Seconds

Demand RMS: 0.520955 gn Remaining Time: 00:00:00 DOF: 154 dF: 0.312500 Hz

Data saved at 03:52:12 PM, Friday, April 23, 2010 Report created at 03:52:13 PM, Friday, April 23, 2010

Axis Y

Project File Name: 研揚 1-200Hz 0.52grms.prj

Profile Name: 研揚 1-200Hz 0.52grms.prj

Test Type: Random

Run Folder: .\RunFolder Apr 23, 2010 16-12-59



Level: 100 %

Control RMS: 0.524061 gn Full Level Elapsed Time: 01:29:58 Lines: 800 Frame Time: 3.200000 Seconds

Demand RMS: 0.520955 gn Remaining Time: 00:00:00 DOF: 154 dF: 0.312500 Hz

Data saved at 05:45:24 PM, Friday, April 23, 2010 Report created at 05:45:25 PM, Friday, April 23, 2010



Axis Z

Project File Name: 研揚 1-200Hz 0.52grms.prj

Profile Name: 研揚 1-200Hz 0.52grms.prj Test Type: Random Run Folder: .\RunFolder Apr 23, 2010 10-17-11



Level: 100 %

Control RMS: 0.521985 gn Full Level Elapsed Time: 01:29:58 Lines: 800 Frame Time: 3.200000 Seconds

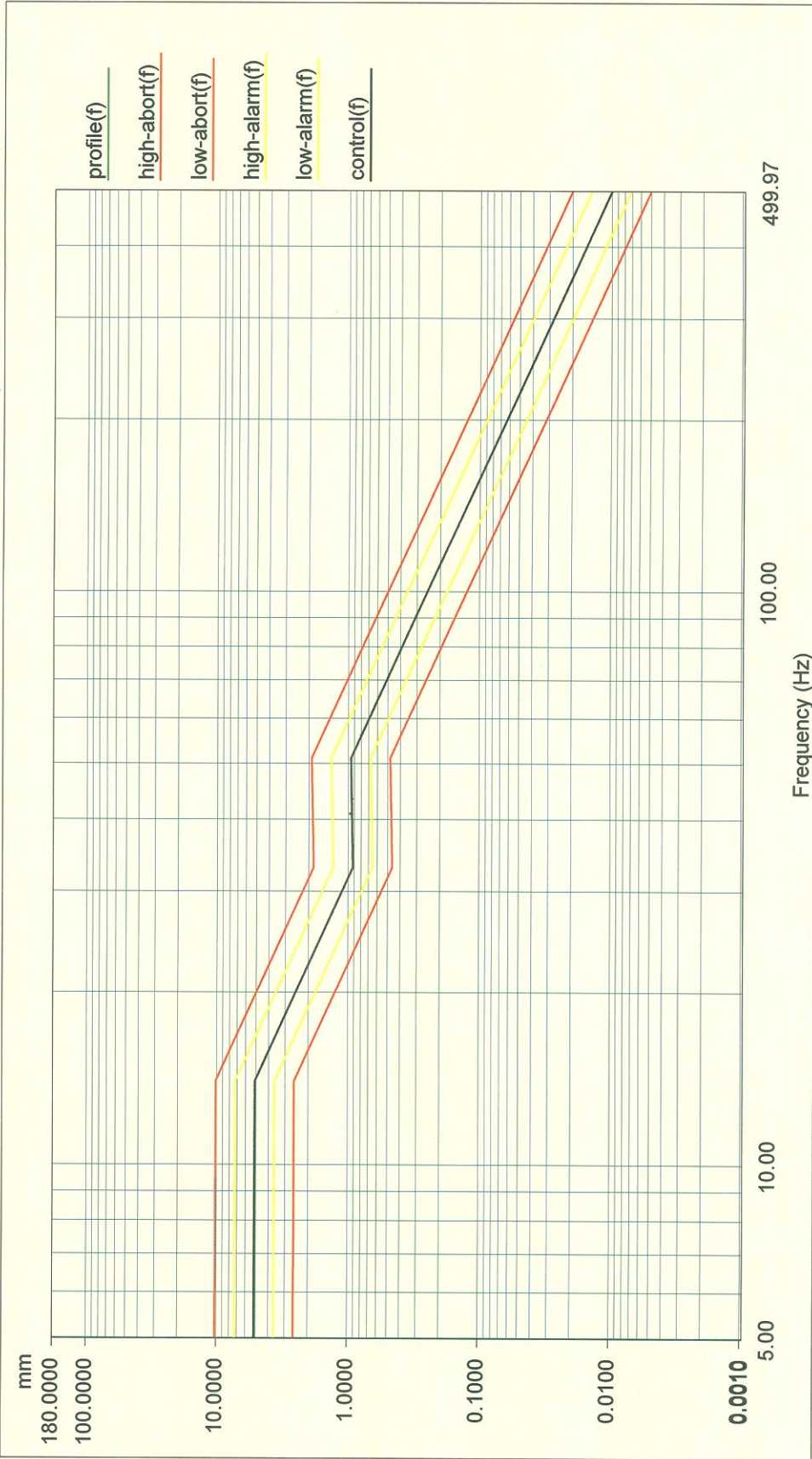
Demand RMS: 0.520955 gn Remaining Time: 00:00:00 DOF: 154 dF: 0.312500 Hz

Data saved at 11:50:50 AM, Friday, April 23, 2010 Report created at 11:50:51 AM, Friday, April 23, 2010

Axis X

Project File Name: 研揚 5~500 Hz 5g.prj

Profile Name: 研揚 5~500 Hz 5g.prj Test Type: Swept Sine Run Folder: .\RunFolder Apr 23, 2010 13-10-34



Level: 100 % Full Level Time: 00:30:10 Sweep Type: Logarithmic
 Frequency: 499.906128 Hz Time Remaining: 00:00:00 Sweep Rate: 0.221 Oct/Min
 Data saved at 01:42:30 PM, Friday, April 23, 2010 Report created at 01:42:40 PM, Friday, April 23, 2010



Axis Y

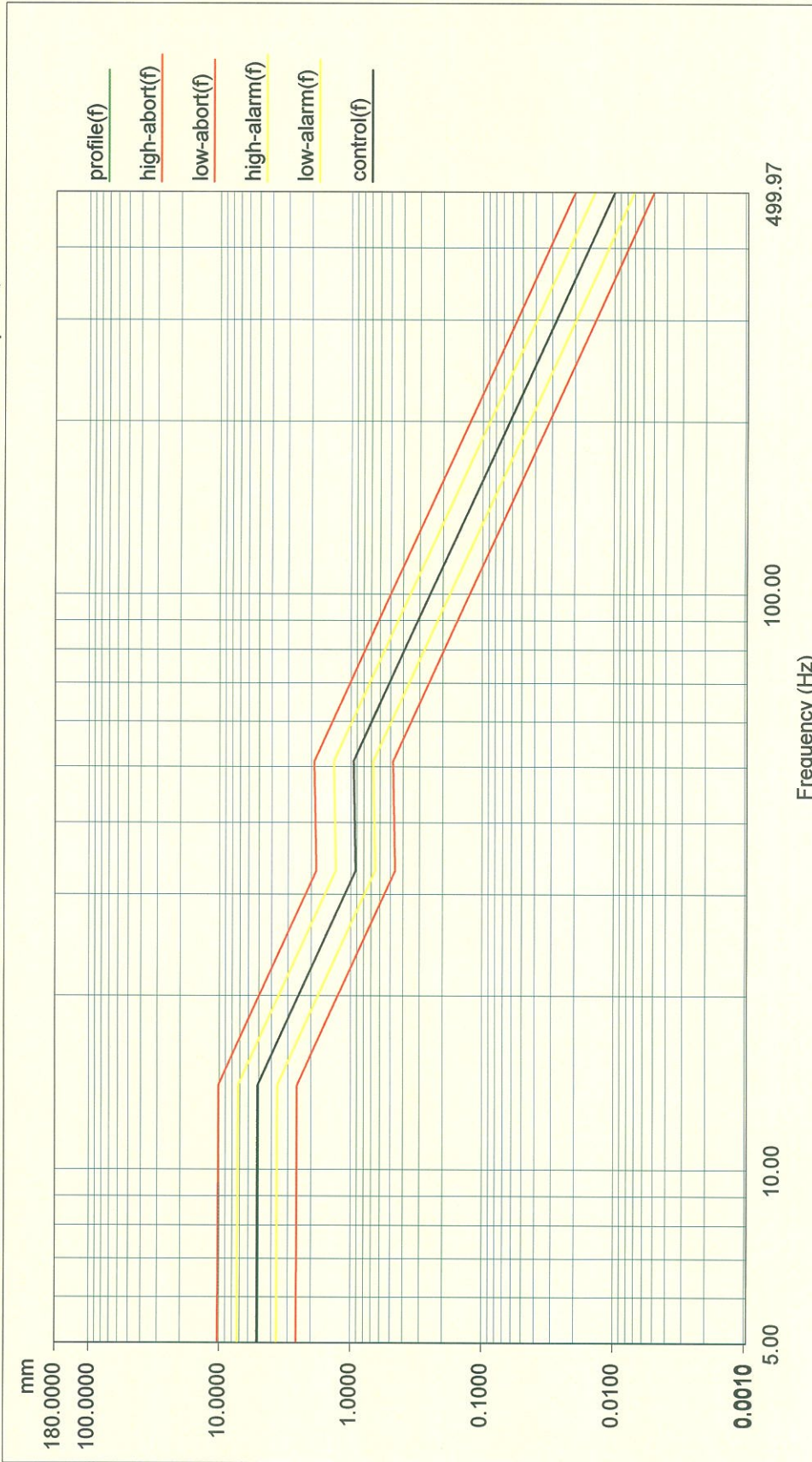
Project File Name: 研揚 5~500 Hz 5g.prj

Profile Name: 研揚 5~500 Hz 5g.prj

Test Type: Swept Sine

Run Folder: .\RunFolder

Apr 23, 2010 13:45:22



Level: 100 % Full Level Time: 00:30:10 Sweep Type: Logarithmic

Frequency: 499.892548 Hz Time Remaining: 00:00:00 Sweep Rate: 0.221 Oct/Min

Data saved at 02:15:38 PM, Friday, April 23, 2010 Report created at 02:15:47 PM, Friday, April 23, 2010

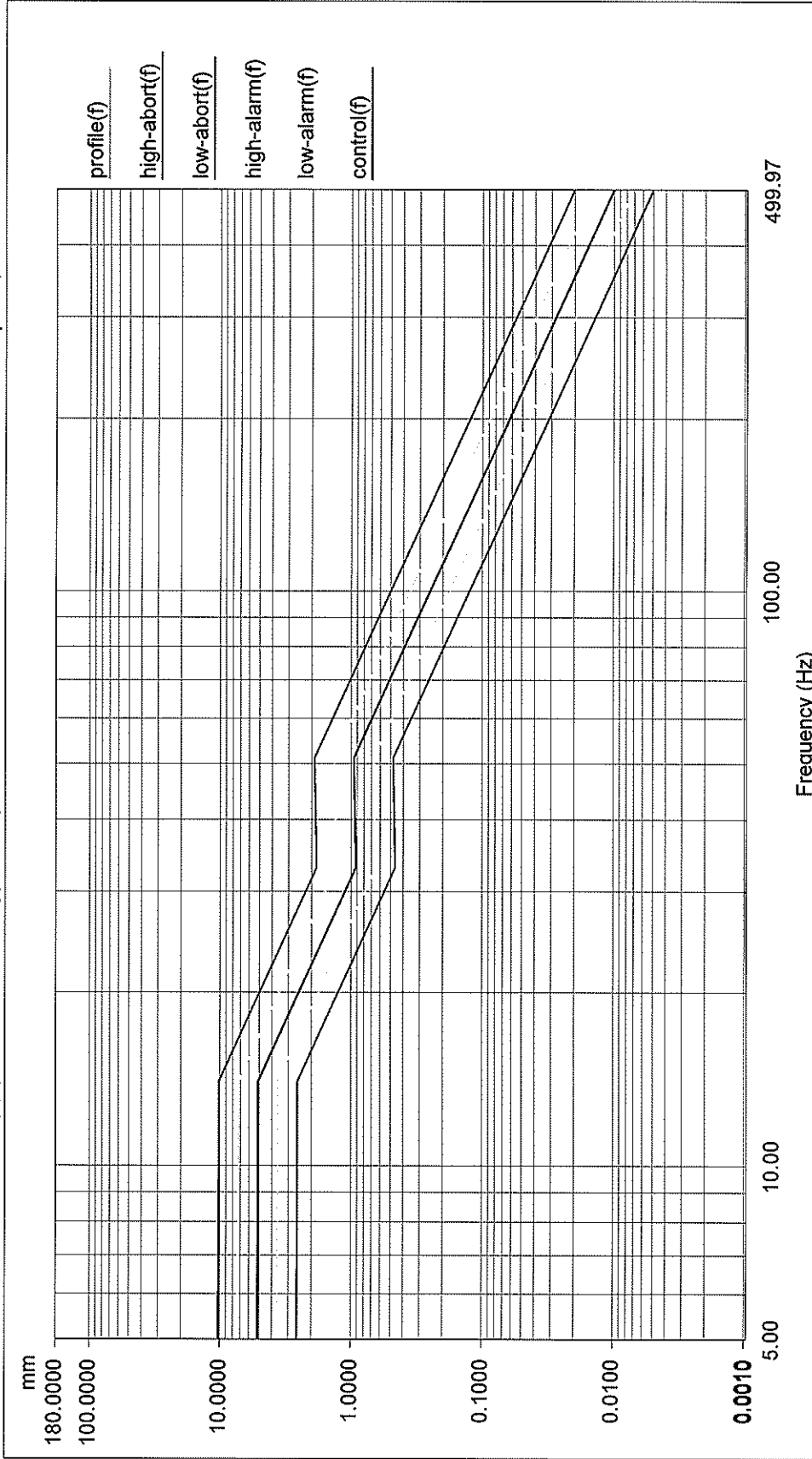
Axis Z

Project File Name: 研揚 5~500 Hz 5g.prj

Profile Name: 研揚 5~500 Hz 5g.prj

Test Type: Swept Sine

Run Folder: .\RunFolder Apr 23, 2010 11-59-39



Level: 100 % Full Level Time: 00:30:10 Sweep Type: Logarithmic

Frequency: 499.892548 Hz Time Remaining: 00:00:00 Sweep Rate: 0.221 Oct/Min

Data saved at 12:29:55 PM, Friday, April 23, 2010 Report created at 01:02:17 PM, Friday, April 23, 2010



Axis X

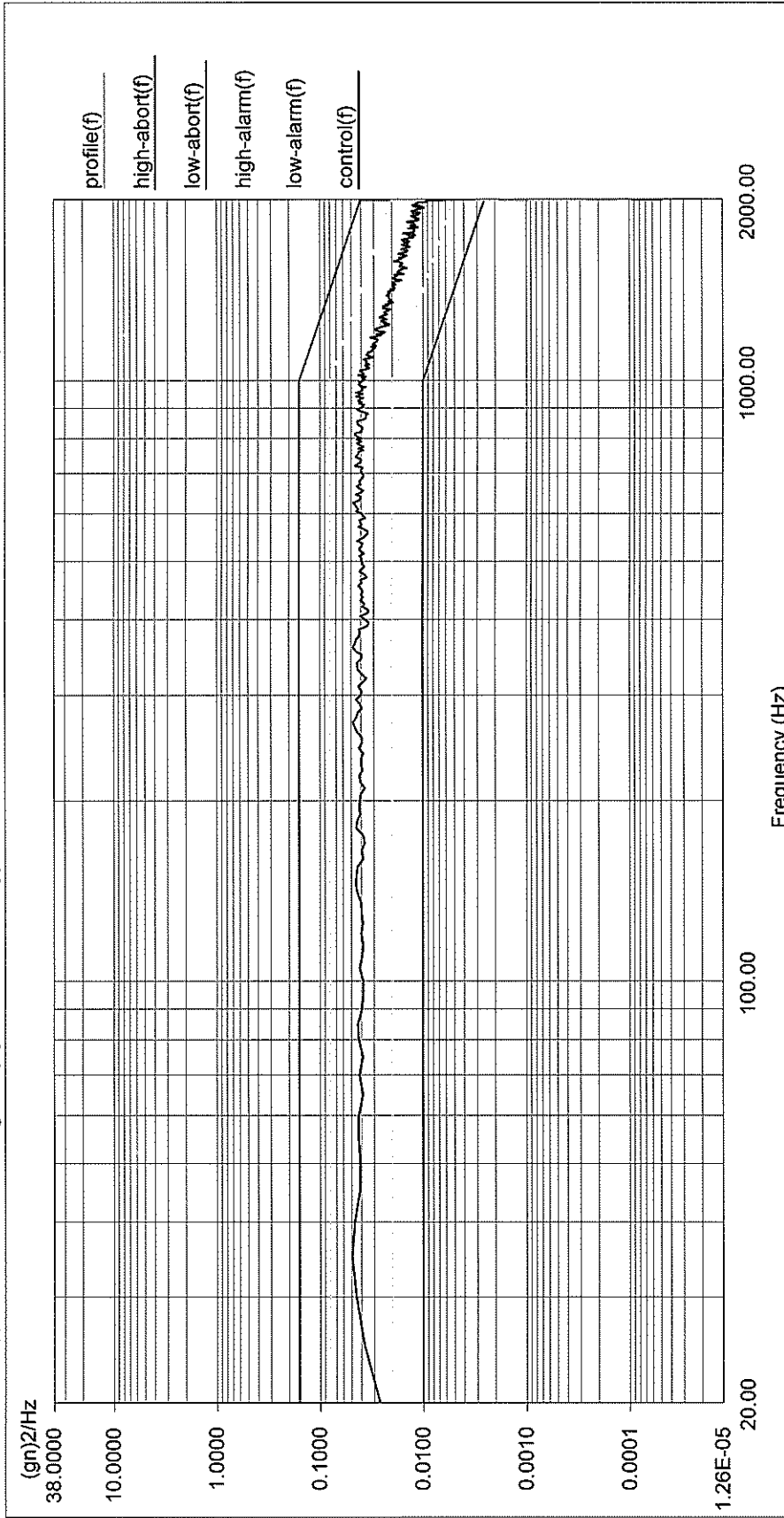
Project File Name: 研揚 20-2000Hz 7.69grms.prj

Profile Name: 研揚 20-2000Hz 7.69grms.prj

Test Type: Random

Run Folder: .\RunFolder

Apr 28, 2010 13-23-32



Level: 100 %

Control RMS: 7.783348 gn Full Level Elapsed Time: 01:00:01 Lines: 400 Frame Time: 0.200000 Seconds

Demand RMS: 7.693336 gn Remaining Time: 00:00:00 DOF: 154 dF: 5.000000 Hz

Data saved at 02:25:50 PM, Wednesday, April 28, 2010

Report created at 02:25:52 PM, Wednesday, April 28, 2010

Axis Y

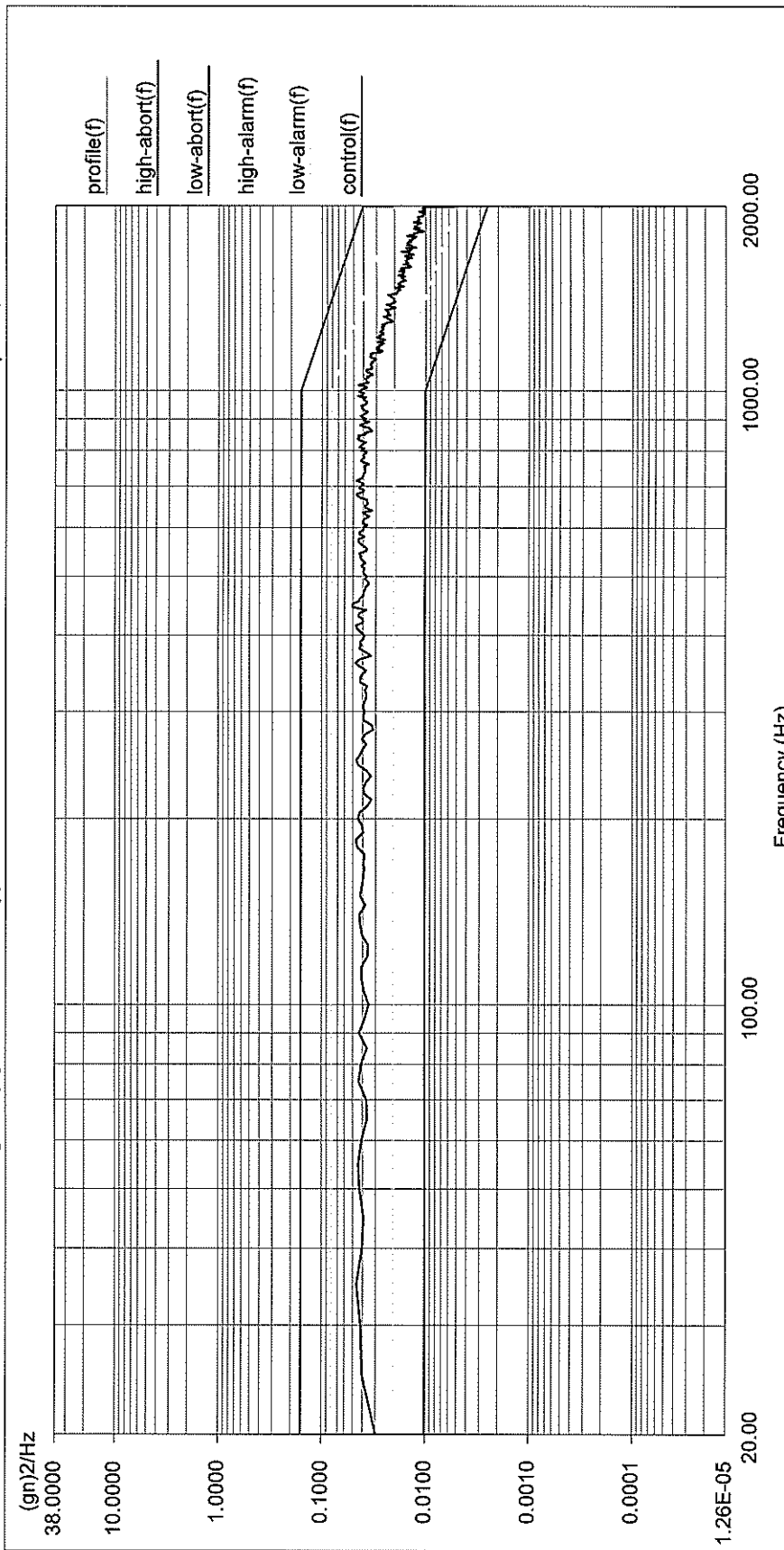
Project File Name: 研揚 20-2000Hz 7.69grms.prj

Profile Name: 研揚 20-2000Hz 7.69grms.prj

Test Type: Random

Run Folder: .\RunFolder

Apr 23, 2010 17-47-53



Level: 100 %

Control RMS: 7.708656 gn Full Level Elapsed Time: 01:00:00 Lines: 400 Frame Time: 0.200000 Seconds

Demand RMS: 7.693336 gn Remaining Time: 00:00:00 DOF: 154 dF: 5.000000 Hz

Data saved at 06:49:22 PM, Friday, April 23, 2010 Report created at 06:49:22 PM, Friday, April 23, 2010



Axis Z

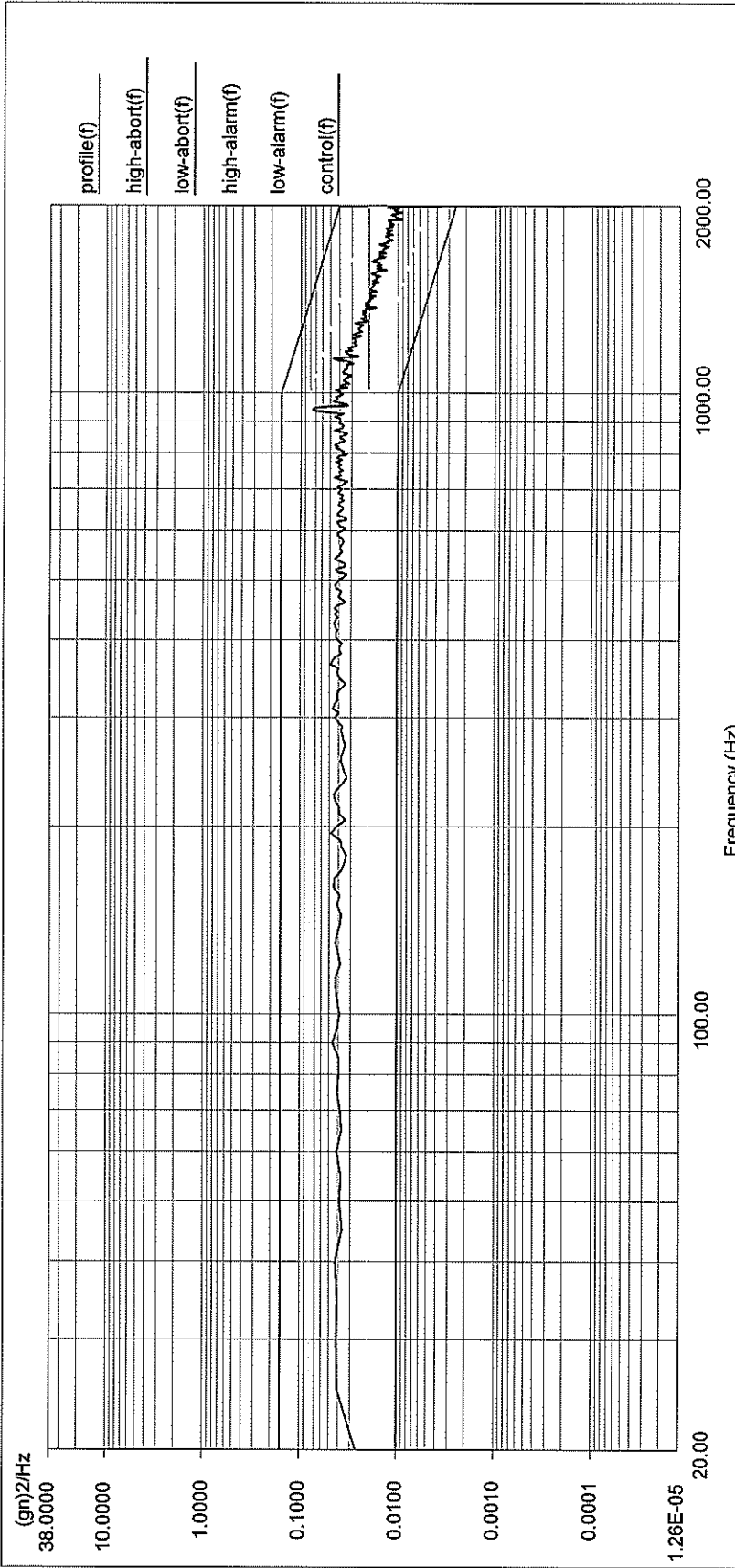
Project File Name: 研揚 20-2000Hz 7.69grms.prj

Profile Name: 研揚 20-2000Hz 7.69grms.prj

Test Type: Random

Run Folder: .\RunFolder

Apr 28, 2010 10-45-44



Level: 100 %

Control RMS: 7.728379 gn Full Level Elapsed Time: 01:00:00 Lines: 400 Frame Time: 0.200000 Seconds

Demand RMS: 7.693336 gn Remaining Time: 00:00:00 DOF: 154 dF: 5.000000 Hz

Data saved at 11:46:39 AM, Wednesday, April 28, 2010 Report created at 11:46:40 AM, Wednesday, April 28, 2010

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