

KING DESIGN INDUSTRIAL CO., LTD.

4F, NO. 3, Lane 270, Pei Shen Road Sec. 3,
Shen Keng Dist., New Taipei City, 222, Taiwan, R.O.C
TEL: 886-2-2662-5100 FAX: 886-2-2662-3094

VIBRATION TEST LABORATORY

<http://www.kdi.tw>
<http://www.vibration.com.tw>
E-mail:service@kdi.tw

TESTING / INSPECTION REPORT

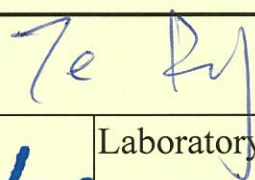
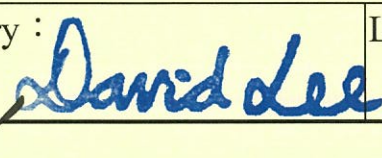
REPORT NO : VT-140905-1

COMPANY : AAEON Technology Inc.
ADDRESS : 5F, No.135, Lane 235, Pao Chiao Rd.
Hsin-Tien City, Taipei, Taiwan, R. O. C.
TEL : 886-2-8919-1234
FAX : 886-2-8919-1049
SPECIMEN : RTC-700C
DATE OF RECEIVED : 2014/09/03
DATE OF TESTED : 2014/09/05

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 : 	
Approval Signatory :  2014.9.11	Laboratory Head : 



TESTING / INSPECTION REPORT

TESTING EQUIPMENT :

Vibration Tester : KING DESIGN KD-9363EM-600F2K-50N120,
S/N : KDS11054986
Controller : VCS-913⁺, S/N : 1312384
Control Accelerometer : Wilcoxon Research WR-777, S/N : 4207

TEST ENVIRONMENT :

Temperature : 25°C (25±10°C)
Relative Humidity : 65 %RH (50±25% RH)

SPECIMEN :

Model : RTC-700C
Quantity : 1 unit

TEST SPECIFICATION (1) :

Reference to ASTM D4169-99

Random vibration test (Operating)
Frequency : 1 Hz to 200 Hz
Acceleration : 0.52 g rms
P.S.D. : 0.00005 g²/Hz (1 Hz)
: 0.01 g²/Hz (4 Hz)
: 0.01 g²/Hz (16 Hz)
: 0.001 g²/Hz (40 Hz)
: 0.001 g²/Hz (80 Hz)
: 0.00001 g²/Hz (200 Hz)
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) :

Reference to MIL-STD 810G 514.6E-1 Category 24

Random vibration test (Non-Operating)

Frequency : 20 Hz to 2,000 Hz
Acceleration : 7.7 g rms
P.S.D. : 0.04 g²/Hz (20 Hz)
: 0.04 g²/Hz (1,000 Hz)
: -6 dB/Oct (2,000 Hz)
Test Axis : X, Y, Z axis
Test Time : 1 hr (Each axis)
Total Test Time : 3 hrs

TEST SPECIFICATION (3) :

Reference to MIL-STD 810G 514.6E-2 Category 24

Sine vibration test (Non-Operating)

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

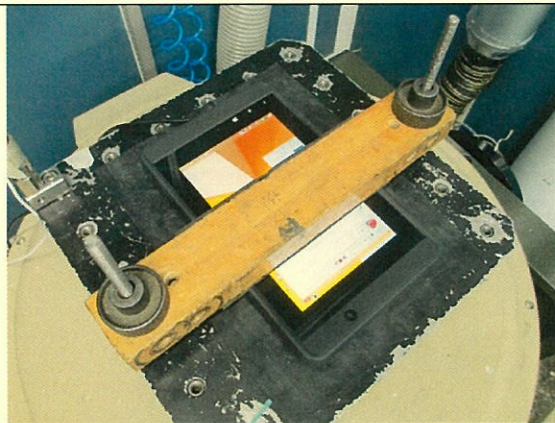
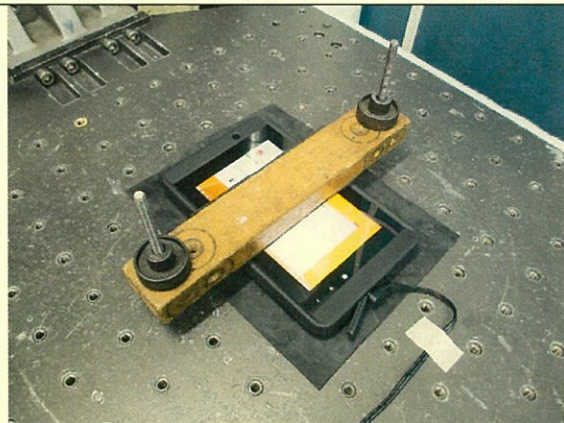
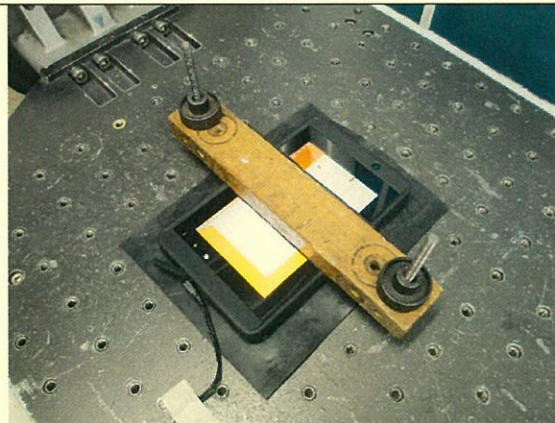
TEST RESULT :

Describe	PASS	FAIL	Non-Judgment
Function judgment ⁽¹⁾	√	---	---
Appearance check ⁽²⁾	√	---	---
(1)—Bootling function was normal after the test.			
(2)—No visible damages were found.			

TESTING / INSPECTION REPORT

Testing photos (Operating)

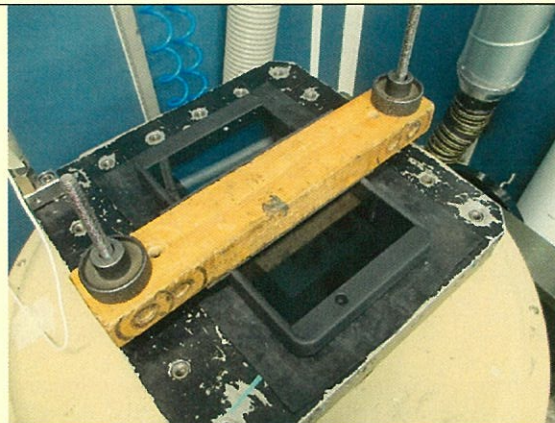
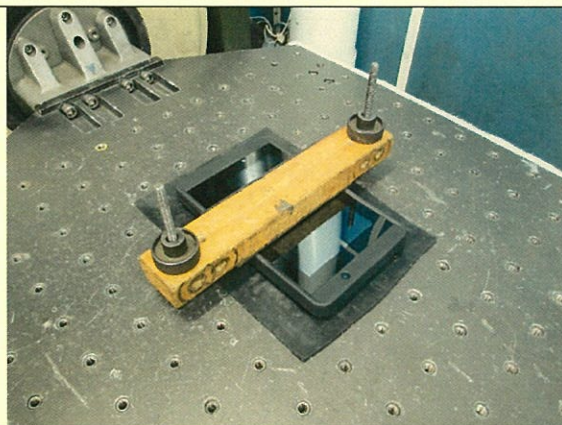
Tester

Z axis

X axis

Y axis


TESTING / INSPECTION REPORT

Testing photos (Non-Operating)

Tester

Z axis

X axis

Y axis


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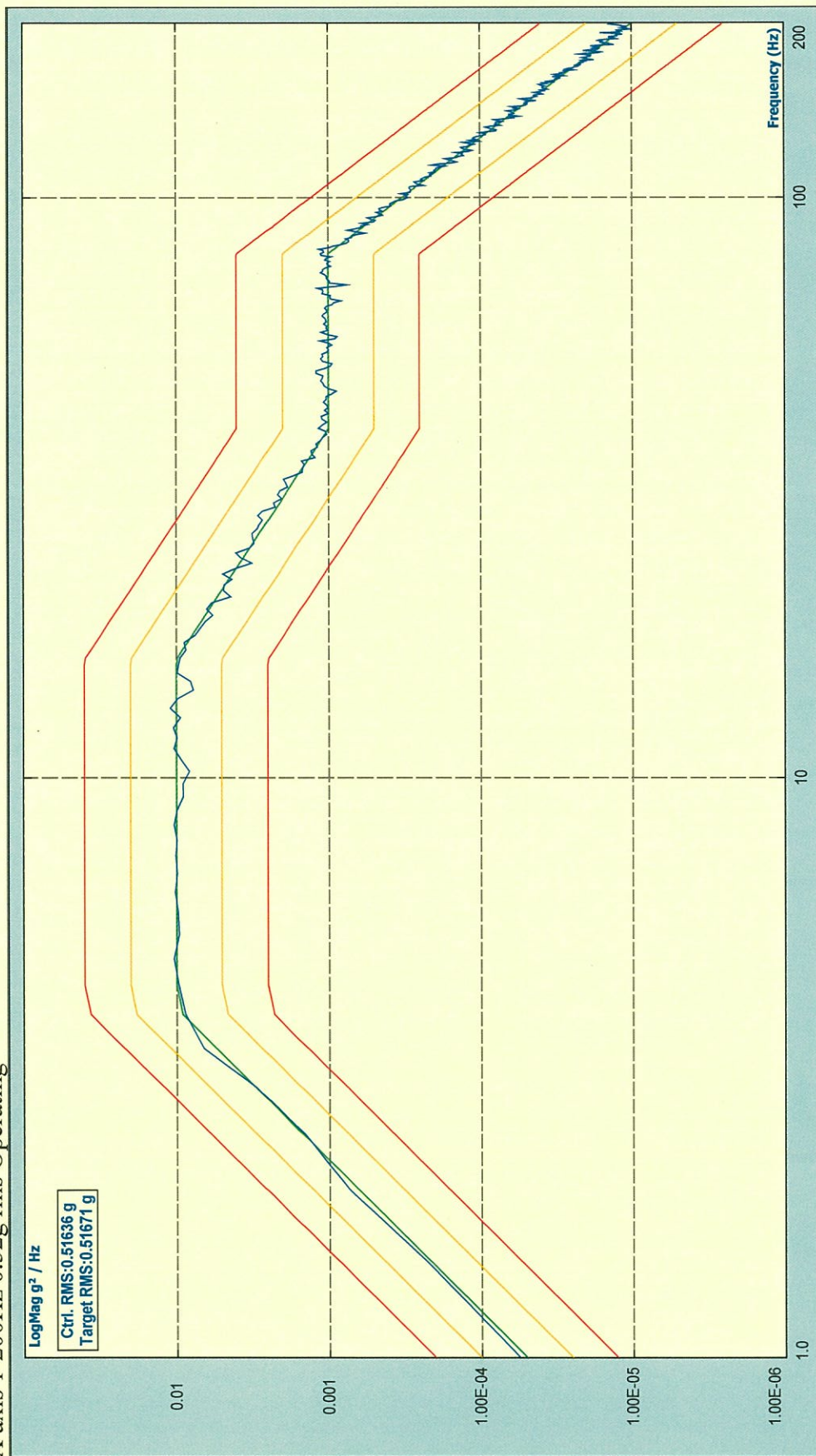
Testing photos

After test





X axis 1-200Hz 0.52g rms Operating



Level: 100.00 %

Velocity Pk: 0.255 m/s

Remaining: 00:00:00

Drive Pk: 0.280V

Control RMS: 0.516 g

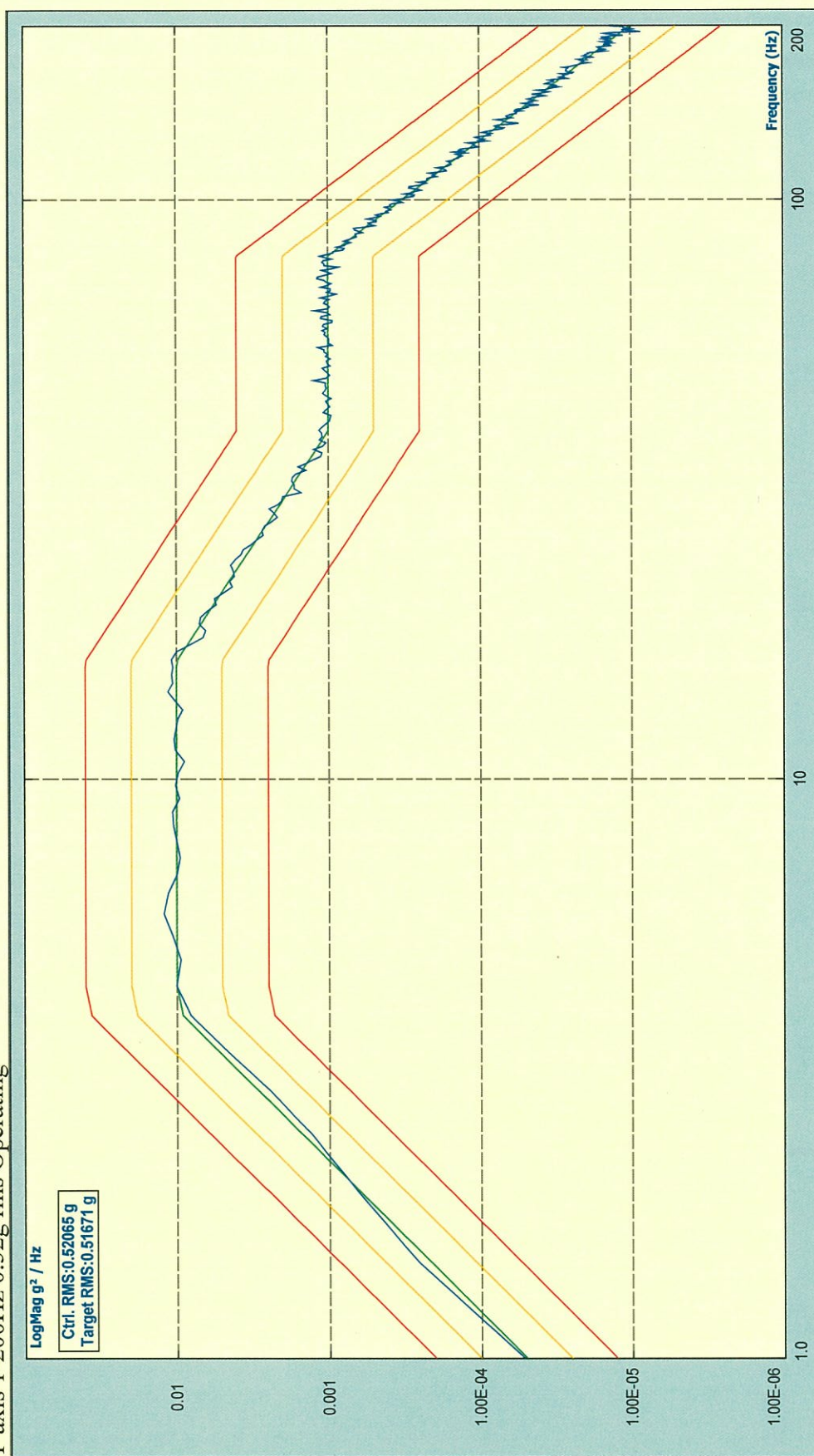
Total Elapsed: 01:32:53

Est. Disp. : 22.86 mm Pk-Pk

Target RMS: 0.513 g

Full Level Elapsed: 01:30:17

Y axis 1-200Hz 0.52g rms Operating



Level: 100.00 %

Velocity Pk: 0.253 m/s

Remaining: 00:00:00

Drive Pk: 0.263V

Control RMS: 0.521 g

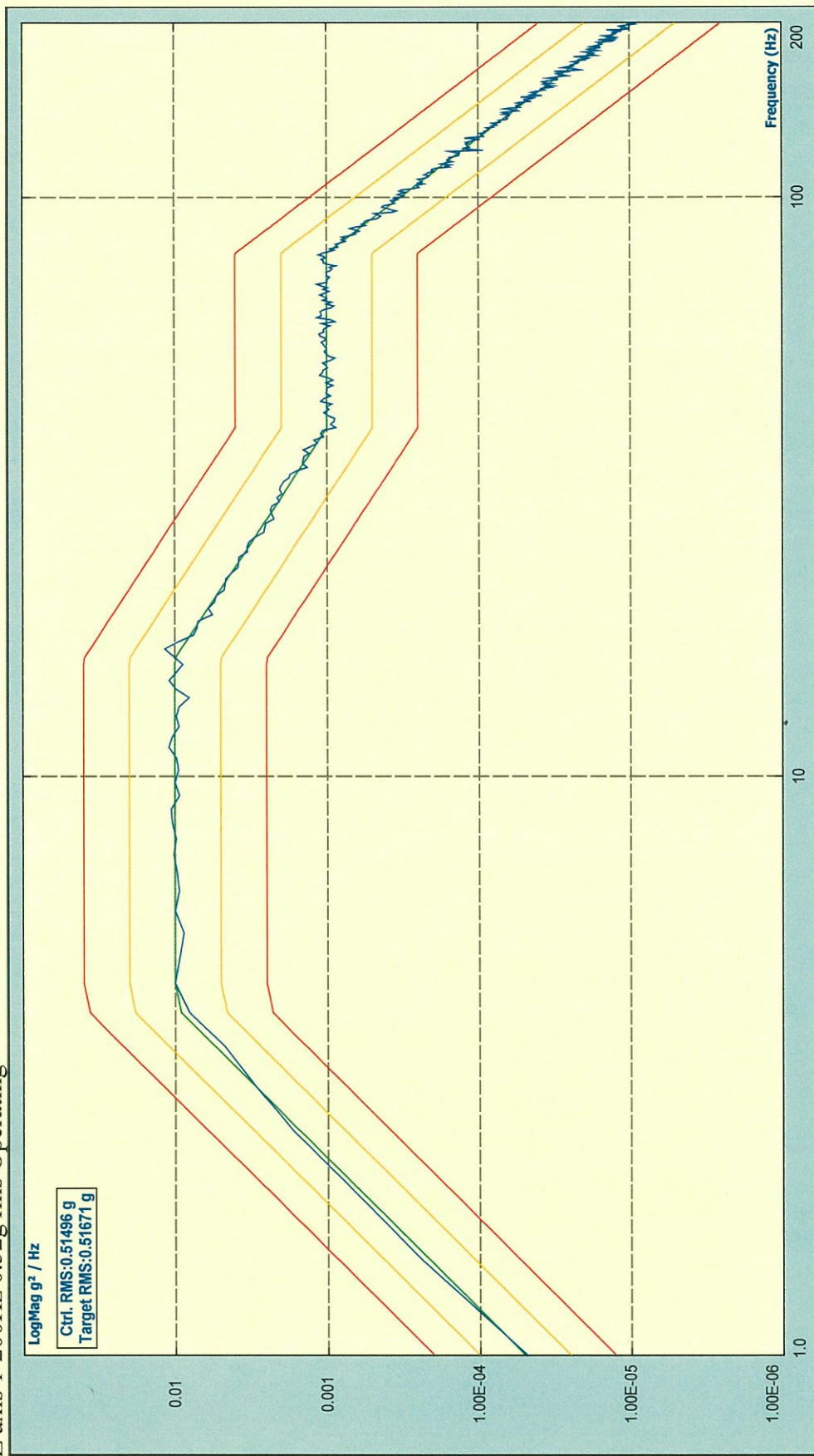
Total Elapsed: 01:32:21

Est. Disp. : 21.83 mm Pk-Pk

Target RMS: 0.513 g

Full Level Elapsed: 01:30:00

Z axis 1-200Hz 0.52g rms Operating



Level: 100.00 %

Velocity Pk: 0.250 m/s

Remaining: 00:00:00

Drive Pk: 0.217V

Control RMS: 0.515 g

Total Elapsed: 01:32:11

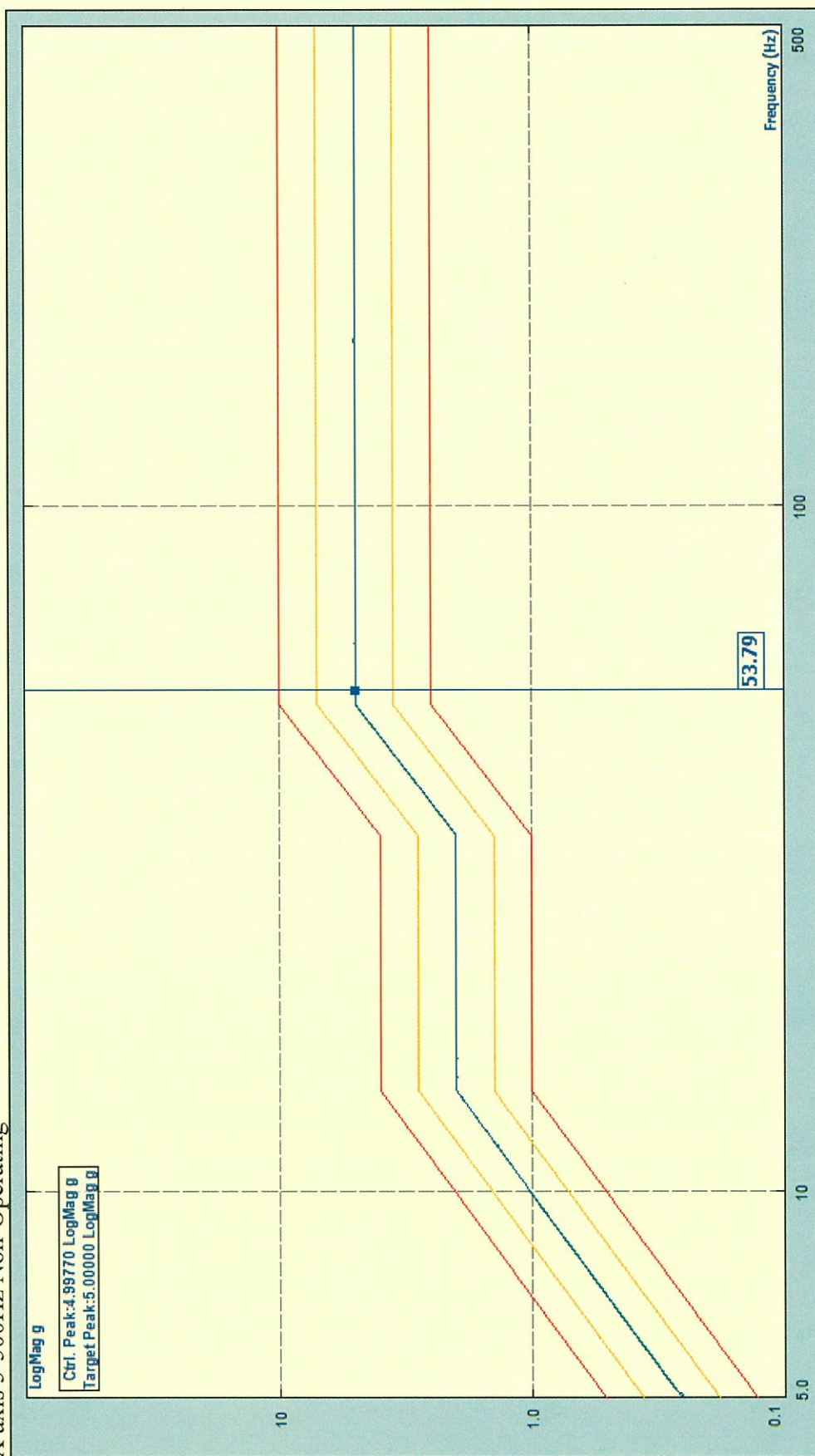
Est. Disp. : 21.33 mm Pk-Pk

Target RMS: 0.513 g

Full Level Elapsed: 01:30:00



X axis 5-500Hz Non-Operating



Level: 100.00 %

Velocity Pk: 0.145 m/s

Remaining: 00:00:00

Sweeping Rate: 1 Oct/Min

Drive Pk: 0.320V

Control Pk: 4.998 g

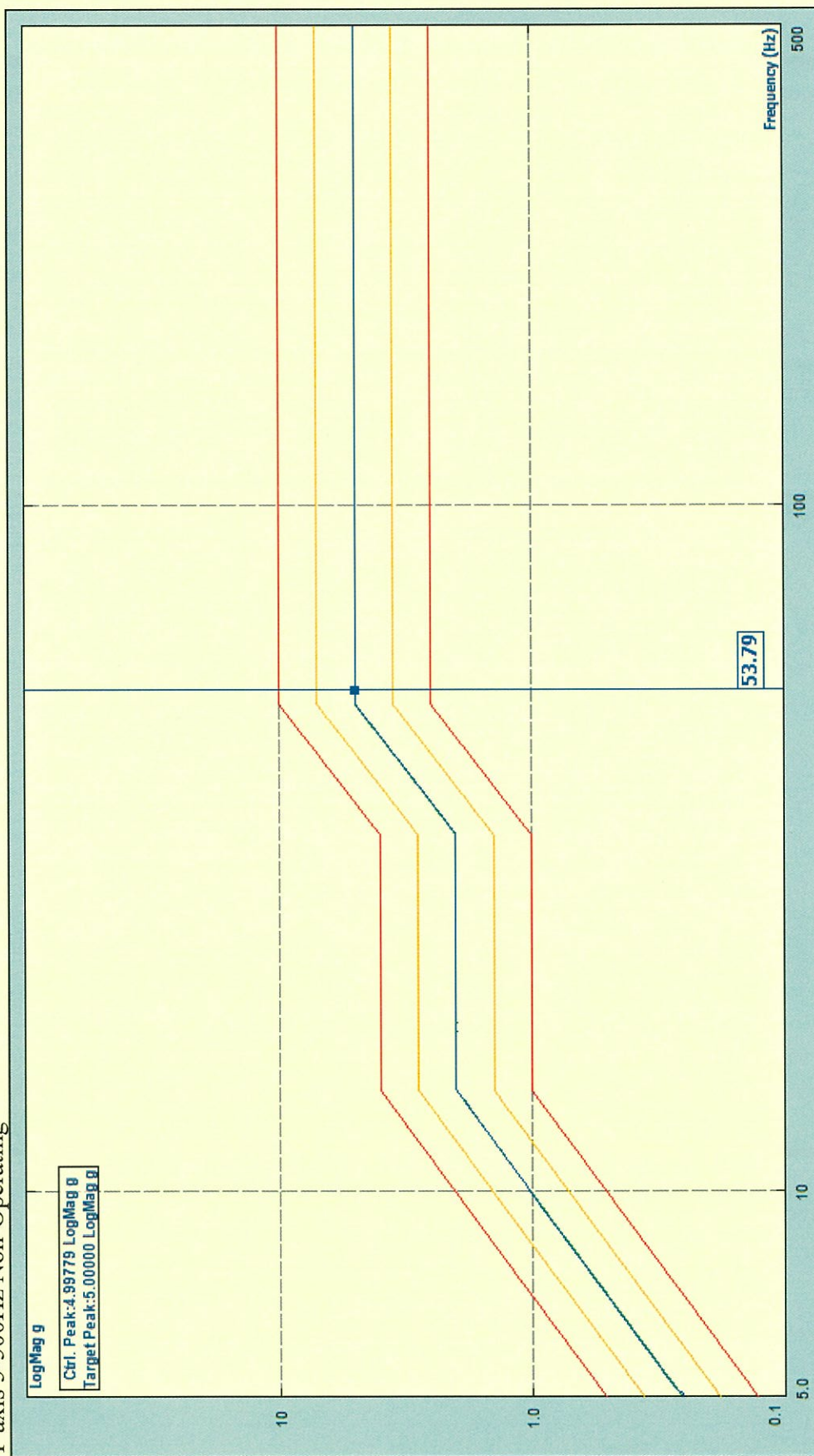
Total Elapsed: 00:30:20

Est. Disp. : 0.858 mm Pk-Pk

Target Pk: 5.000 g

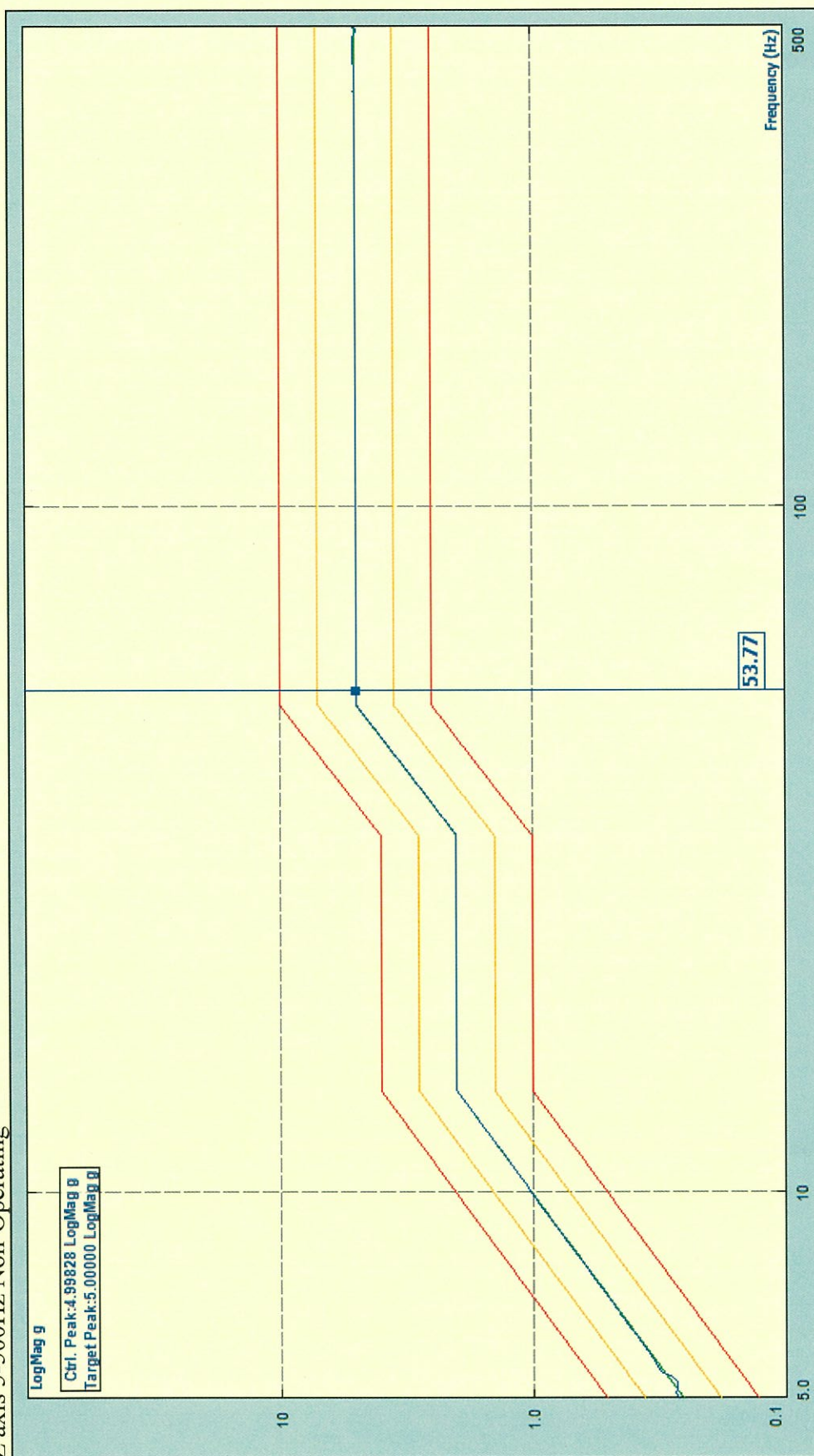
Full Level Elapsed: 00:30:00

Y axis 5-500Hz Non-Operating



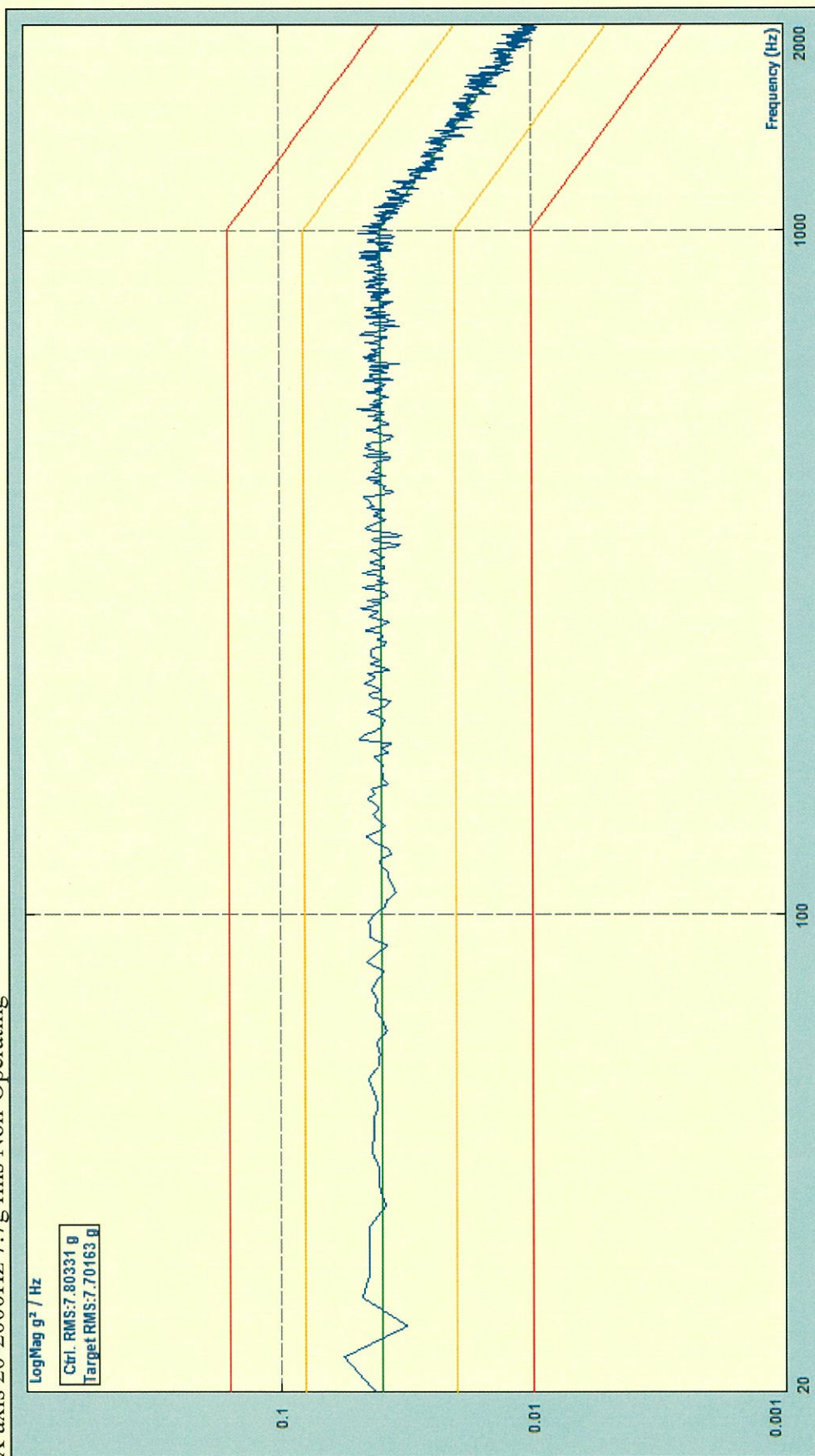
Level: 100.00 %	Drive Pk: 0.319V	Est. Disp.: 0.859 mm Pk-Pk
Velocity Pk: 0.145 m/s	Control Pk: 4.998 g	Target Pk: 5.000 g
Remaining: 00:00:00	Total Elapsed: 00:30:19	Full Level Elapsed: 00:30:00
Sweeping Rate: 1 Oct/Min		

Z axis 5-500Hz Non-Operating



Level: 100.00 %	Drive Pk: 0.188V	Est. Disp. : 0.859 mm Pk-Pk
Velocity Pk: 0.145 m/s	Control Pk: 4.998 g	Target Pk: 5.000 g
Remaining: 00:00:00	Total Elapsed: 00:30:19	Full Level Elapsed: 00:30:00
Sweeping Rate: 1 Oct/Min		

X axis 20-2000Hz 7.7g rms Non-Operating



Level: 100.00 %

Velocity Pk: 0.223 m/s

Remaining: 00:00:00

Drive Pk: 1.699V

Control RMS: 7.803 g

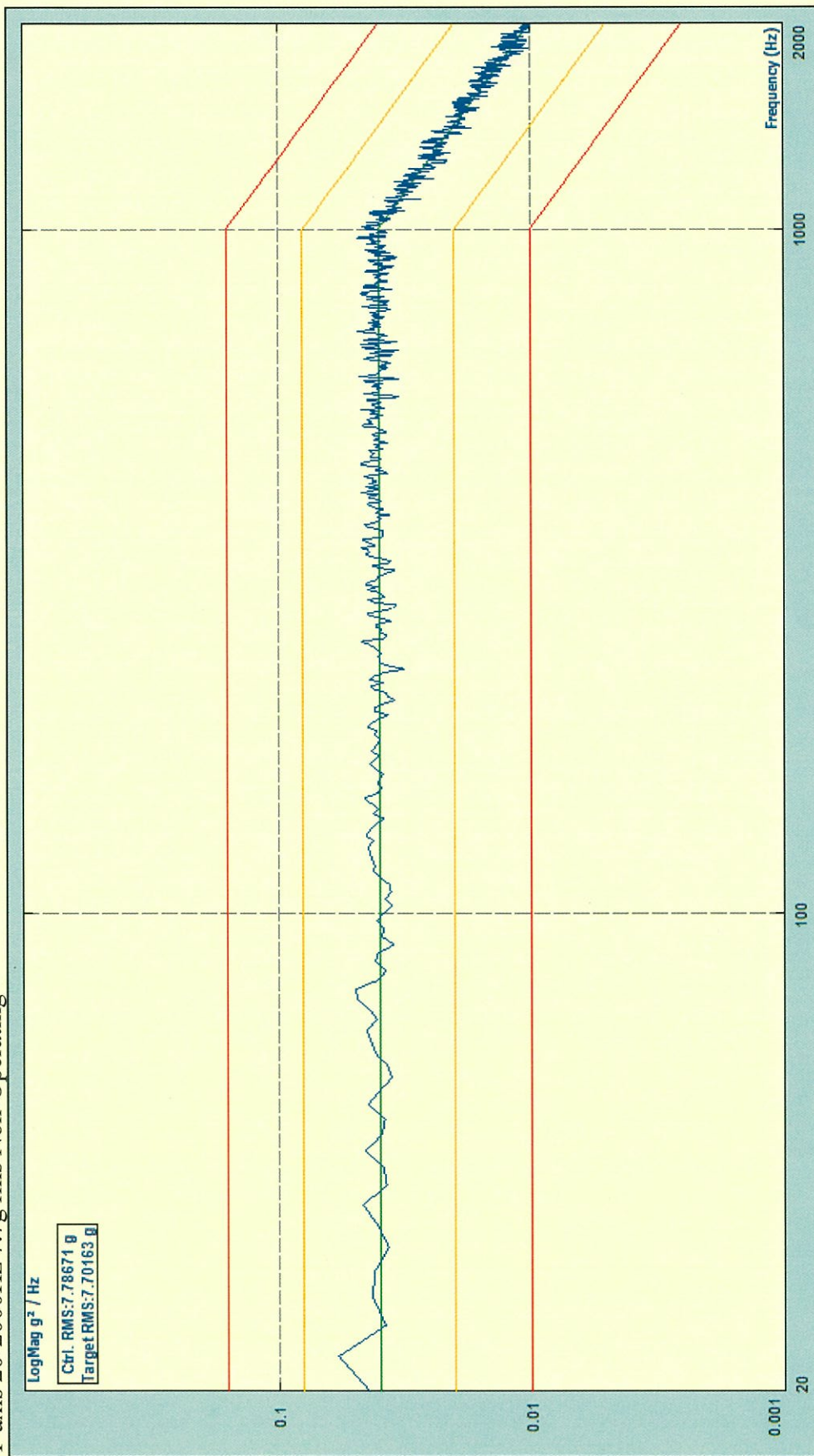
Total Elapsed: 01:01:37

Est. Disp.: 2.230 mm Pk-Pk

Target RMS: 7.700 g

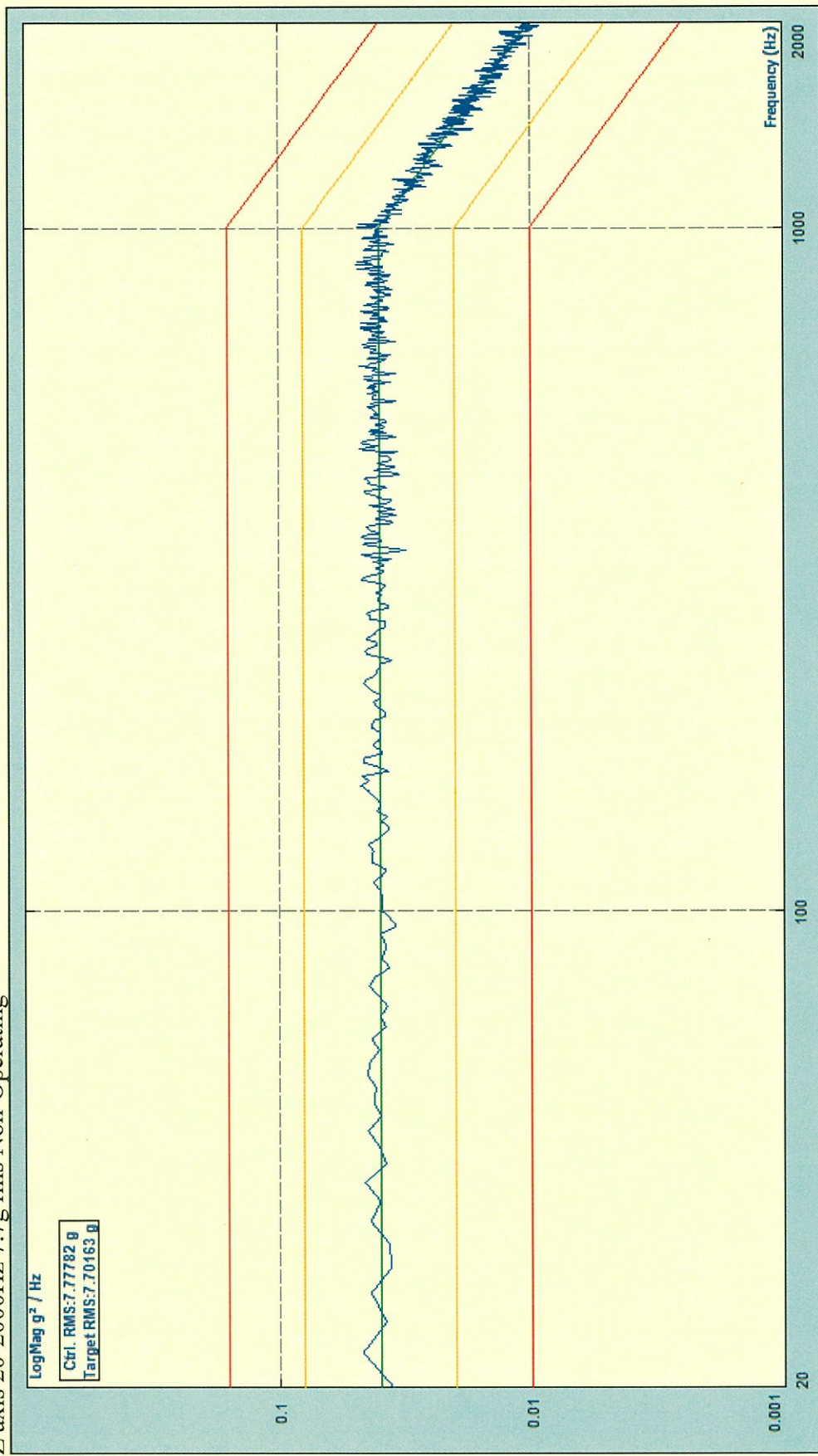
Full Level Elapsed: 01:00:01

Y axis 20-2000Hz 7.7g rms Non-Operating



Level: 100.00 %	Drive Pk: 1.153V	Est. Disp. : 2.249 mm Pk-Pk
Velocity Pk: 0.214 m/s	Control RMS: 7.787 g	Target RMS: 7.700 g
Remaining: 00:00:00	Total Elapsed: 01:01:23	Full Level Elapsed: 01:00:00

Z axis 20-2000Hz 7.7g rms Non-Operating



Level: 100.00 %	Drive Pk: 1.155V	Est. Disp. : 2.119 mm Pk-Pk
Velocity Pk: 0.217 m/s	Control RMS: 7.778 g	Target RMS: 7.700 g
Remaining: 00:00:00	Total Elapsed: 01:01:07	Full Level Elapsed: 01:00:00

-END-