

TEST REPORT NO. 52554



WESTERN OPERATIONS, SAN BERNARDINO FACILITY

Pelican Products Inc.
23215 Early Avenue
Torrance, CA 90505

Our Job No. DE 52554
Contract —
Your P.O. No. 42323
Date October 11, 2005

TEST REPORT
FOR
ENVIRONMENTAL TESTING
OF
CASES
FOR
PELICAN PRODUCTS, INC.

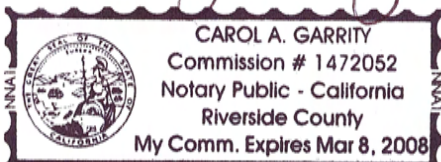
STATE OF CALIFORNIA }
COUNTY OF SAN BERNARDINO } SS.

Douglas G. Anderson, being duly sworn, deposes and says: That the information contained in this report is the result of complete and carefully conducted tests and is to the best of his knowledge true and correct in all respects.

[Signature]
SUBSCRIBED and sworn to before me this 12 day of Oct, 2005

by Douglas G. Anderson personally known to me or proved to me on the basis of satisfactory evidence to be the person who appeared before me.

[Signature]



TEST OPERATIONS

TEST ENGINEER

[Signature] 10-11-05

H. Pemberton

DEPT. MANAGER

[Signature] 10/11/05

P. Knoll

QUALITY ASSURANCE

[Signature] 10/12/05
For

G. Montgomery



This report contains true and correct data obtained in the performance of the test program set forth in your purchase order. Test methods, results, and equipment used are recorded on these data sheets.

Where applicable, instrumentation used in obtaining this data has been calibrated using standards which are traceable to the National Institute of Standards and Technology.

SUMMARY:

Twenty-Four (24) Cases, part numbers and serial numbers as listed on pages 3-5 , were subjected to the following environmental tests in accordance with specifications as listed:

Test	Specification	Report Page No.
Vibration Test K	DEF STAN 81-41 Part 3/4, Para. 14 and 24	7
Low Temperature Test G	DEF STAN 81-41 Part 3/4, Para. 21	48
Dry Heat Test C	DEF STAN 81-41 Part 3/4, Para. 14 and 17	52
Impact Test E	DEF STAN 81-41 Part 3/4, Para. 14 and 19	57

Complete test requirements, methods and results are contained in this report. Also included are photos and equipment lists.

Test Dates: 9/17/05-10/1/05



DATA SHEET

Customer Pelican Products, Inc. Job No. 52554
Date 9/15/2005
Specimen Cases

RECEIVING INSPECTION

No. of Specimens Received: 24 (Twenty-Four)

Record identification information exactly as it appears on the tag or specimen:

Manufacturer: Pelican Products, Inc.

P/N's	<u>1120-001-110</u>	S/N's	<u>00019428015220</u>
	<u>1150-001-110</u>		<u>00019428012366</u>
	<u>1200-001-110</u>		<u>00019428007577</u>
	<u>1300-001-110</u>		<u>00019428021825</u>
	<u>1400-001-110</u>		<u>00019428012076</u>
	<u>1450-001-110</u>		<u>00019428007317</u>
	<u>1490-001-110</u>		<u>00019428003319</u>
	<u>1500-001-110</u>		<u>00019428002374</u>
	<u>1510-001-110</u>		<u>00019428039639</u>

How does identification information appear: (name plate, tag, painted, imprinted, etc.)

Imprinted

Examination: Visual, for evidence of damage, poor workmanship, or other defects, and completeness of identification.

Inspection Results: There was no visible evidence of damage to the specimen(s) unless otherwise noted below.

See attached spread sheet for dimensions and weights of all test specimens.

recinsp

Inspected By [Signature] 9-15-05
Sheet No. 1 of 3
Approved [Signature] Date 9-15-05



DATA SHEET

Customer Pelican Products, Inc. Job No. 52554
Date 9/15/2005
Specimen Cases

RECEIVING INSPECTION

No. of Specimens Received: 24 (Twenty-Four)

Record identification information exactly as it appears on the tag or specimen:

Manufacturer: Pelican Products, Inc.

P/N's	<u>1720-001-110</u>	S/N's	<u>00019428039707</u>
	<u>1750-001-110</u>		<u>00019428002077</u>
	<u>0340-001-110</u>		<u>00019428048679</u>
	<u>0350-001-110</u>		<u>00019428037093</u>
	<u>0370-001-110</u>		<u>00019428037116</u>
	<u>1430</u>		<u>N/A</u>
	<u> </u>		<u> </u>
	<u> </u>		<u> </u>
	<u> </u>		<u> </u>

How does identification information appear: (name plate, tag, painted, imprinted, etc.)

Imprinted

Examination: Visual, for evidence of damage, poor workmanship, or other defects, and completeness of identification.

Inspection Results: There was no visible evidence of damage to the specimen(s) unless otherwise noted below.

See attached spread sheet for dimensions and weights of all test specimens.

recinsp

Inspected By *Isaac* ⁹⁻¹⁵⁻⁰⁵
Sheet No. 3 of 3
Approved *H. Pemberton* Date 9-15-05

Pelican cases to be tested per Wyle reference # 566-030059		
Catalog #	External Dimensions (in.)	Empty weight (lbs.)
1120	8 1/4 x 6 9/16 x 3 9/16	1.25
1150	9 1/4 x 7 9/16 x 4 3/8	1.5
1200	10 5/8 x 9 11/16 x 4 7/8	2.5
1300	10 5/8 x 9 11/16 x 6 7/8	3
1400	13 3/8 x 11 5/8 x 6	4
1430	16 3/8 x 8 3/4 x 12 5/16	6.5
1450	16 x 13 x 6 7/8	6
1490	19 7/16 x 13 15/16 x 4 11/16	5.5
1500	18 1/2 x 14 1/16 x 6 15/16	7
1510	22 x 14 x 9	11
1520	19 1/8 x 15 7/16 x 7 9/16	8.33
1550	20 5/8 x 16 7/8 x 8 1/8	9.75
1560	22 1/16 x 17 15/16 x 10 7/16	15
1600	24 1/4 x 19 7/16 x 8 11/16	11.5
1610	24 9/16 x 19 5/16 x 11 15/16	20.5
1620	24 3/16 x 19 3/8 x 13 7/8	20.5
1650	32 3/4 x 20 1/2 x 11 5/8	29
1660	31 1/2 x 22 7/8 x 18 7/8	35
1700	38 1/8 x 17 13/16 x 6 1/8	16
1720	44 3/8 x 16 x 6 1/8	17
1750	53 x 17 7/16 x 6 1/16	23.5
340	20 3/8 x 20 7/16 x 19 1/4	24
350	22 1/2 x 22 7/16 x 21 1/4	26
370	10 5/8 x 9 11/16 x 6 7/8	30



DATA SHEET

Test Title Pre-conditioning & Vibration Test K

Customer Pelican Products, Inc. Job No. 52554
 Specimen Cases Date Started 9/17/2005
 Part No. See Recv. Insp. Serial No. See Recv. Insp. Date Comp. 9/26/2005
 Spec. DEF STAN 81-41 Part3/4 Par. 14 and 24 Photo Yes Amb. Temp. Controlled

Requirements:

Pre-Conditioning:

Temperature: 25± 10 °C
 Humidity: 45% to 75%
 Duration: 16 hours or until specimen has reached temperature stabilization (whichever is the shortest period)

Vibration:

Test Level: ± 0.23" (± 6 mm) peak (0.46" DA) from 5 to 9 Hz and ±2g peak from 9 to 350 Hz
 Sweep Rate: 0.75 ± 0.25 Octave
 Test Duration: Depending on test specimen weight, see below
 Orientation: Depending on test specimen weight see below

Test Method:

Weigh the test specimen.

Place the test specimen in a test chamber on the face on which it normally is expected to be transported or stored. Install a thermocouple on the test specimen. Maintain the chamber at 25± 10 °C and 45% to 75% relative humidity for 16 hours or until the specimen has reached temperature stabilization (i.e. test specimen temperature stable with chamber temperature).

After pre-conditioning:

Immediately after removal from the conditioning chamber strap the test specimens to a vibration machine. Subject the test specimens to the following vibration test. Axis designations are to be Top to Bottom, Side to Side, and Front to Back.

(Continued)



DATA SHEET

Test Title Pre-conditioning & Vibration Test K **Date** 9/17/2005
Customer Pelican Products, Inc. **Job No.** 52554
Specimen Cases **Technician** I. Garcia *26 9-26-05*
Part No. See Recv. Insp. **Serial No.** See Recv. Insp. **Engineer** H. Pemberton *HP 9-26-05*

(Continued)

For each test specimen whose weight is up to and including 154.3 pounds (0-70 kg), vibrate each test specimen for 2 hours in each of the three mutually perpendicular axis at a vibration amplitude of $\pm 0.23''$ (± 6 mm) peak (0.46" DA) from 5 to 9 Hz and $\pm 2g$ peak from 9 to 350 Hz and a sweep rate of 0.75 ± 0.25 octave.

NOTE: If because of the geometry of the test specimen , it is considered impractical or unnecessary to vibrate the test specimen in a particular axis, the test specimen shall be vibrated for 3 hours in each of the two remaining axis.

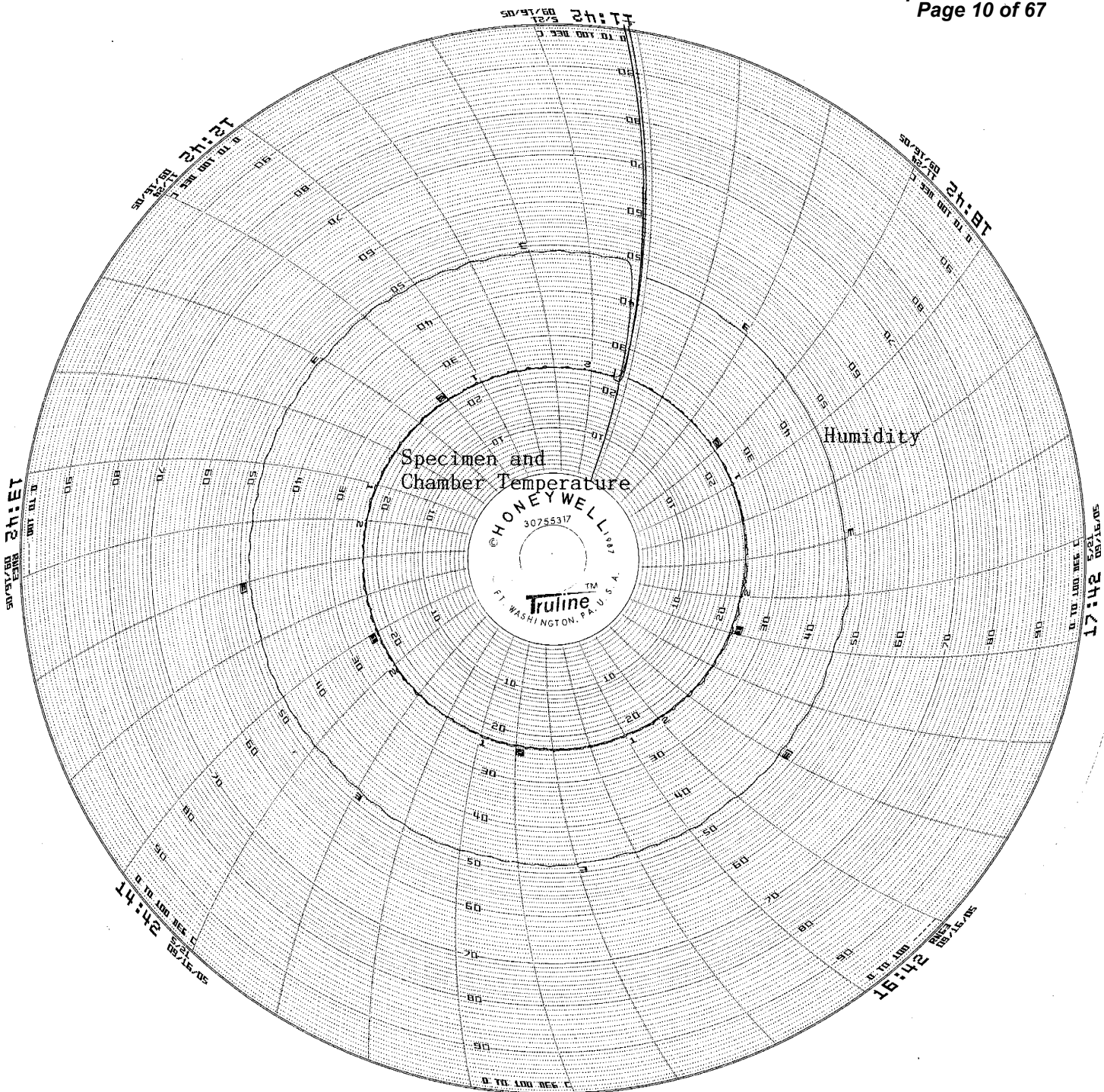
Perform a visual examination. Any malfunction of the fittings and hardware (seals, closures, hinges, handles, etc.) and any damage to or spillage of the package contents shall constitute a failure of the specimen. Minor visible deterioration of the test specimen shall be noted but does not necessarily constitute failure of the test specimen.

Test Results:

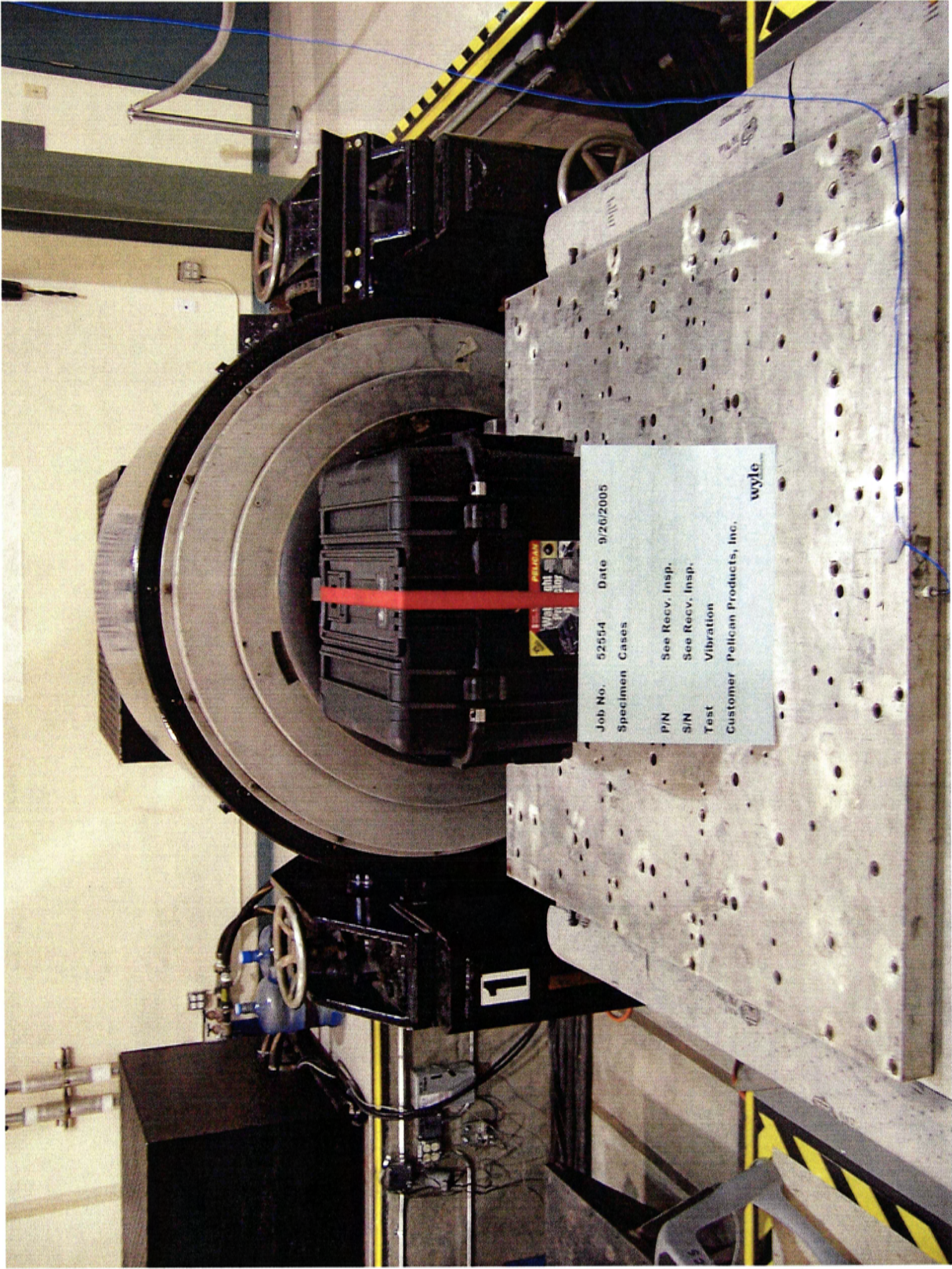
The test was performed in accordance with the Test Method and Requirements stated above. No visible evidence of damage to the test specimens was observed upon completion of testing.




*Photograph 1
Typical Pre-Conditioning Setup*

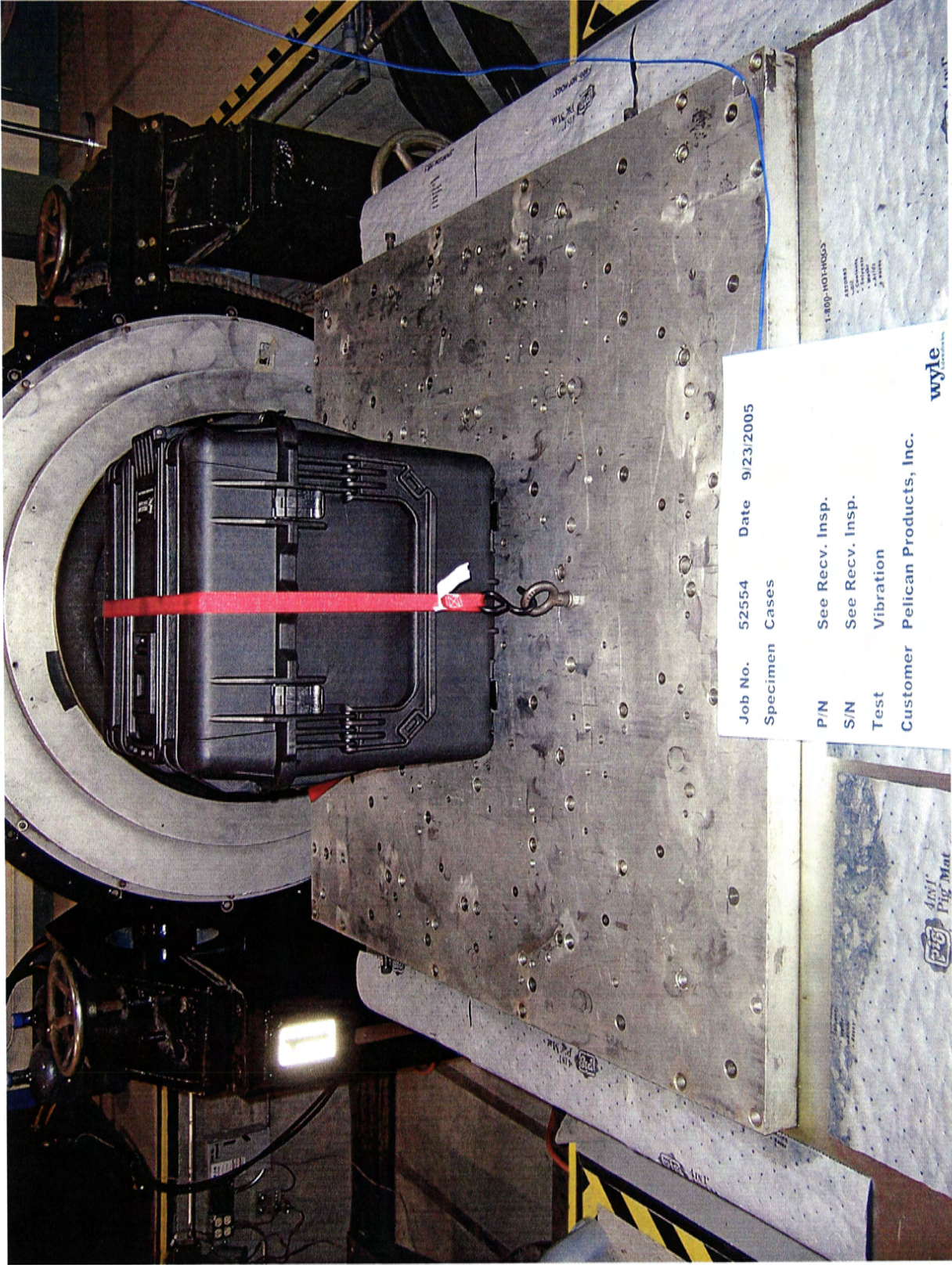


Typical Pre-Conditioning Conditions



Job No.	52554	Date	9/26/2005
Specimen Cases			
P/N	See Recv. Insp.		
S/N	See Recv. Insp.		
Test	Vibration		
Customer	Pelican Products, Inc. 		

Photograph 2
Typical Front-to-Back Axis Vibration Test Setup



Photograph 3
Typical Side-to-Side Axis Vibration Test Setup



Photograph 4
Typical Vertical Axis Vibration Test Setup



**Dynamics Section
Vibration Test Data Sheet**

Job No. 52554

Customer Pelican Products, Inc. Specimen Cases P/N See Recv. Insp. S/N See Recv. Insp.

Date	Time	Axis	Temp. (° F)	Sinusoidal			Test Time (Min.)	Comments
				Freq. (Hz)	Disp. ("DA)	Accel (±G)		
2005	Noted	Noted	Amb.	5-350			120	Test Requirements: Vibration Test K
				5-9 Hz	0.46			Sweep Rate: 0.75 (±0.25) octaves per minute
				9-350 Hz		2g		
9/17	1029	F-B	Amb.	5-350	"	"	120	Performed Vibration #'S 1500,1510,1520 & 1560
9/17	1251	S-S	Amb.	5-350	"	"	120	Performed Vibration #'S 1500,1510,1520 & 1560
9/19	0736	S-S	Amb.	5-350	"	"	120	Performed Vibration #'S 1450,1490,1550 & 1600
9/19	0756	T-B	Amb.	5-350	"	"	120	Performed Vibration # 1620
9/19	0955	F-B	Amb.	5-350	"	"	120	Performed Vibration #'S 1450,1490,1550 & 1600
9/19	1007	T-B	Amb.	5-350	"	"	120	Performed Vibration # 1610
9/19	1217	F-B	Amb.	5-350	"	"	120	Performed Vibration #'S 1610 & 1620
9/20	0709	S-S	Amb.	5-350	"	"	120	Performed Vibration #'S 1610 & 1620
9/20	0815	T-B	Amb.	5-350	"	"	120	Performed Vibration #'S 1500,1510,1520 & 1560
9/20	1033	F-B	Amb.	5-350	"	"	120	Performed Vibration #'S 1650 & 1660.
9/20	1043	T-B	Amb.	5-350	"	"	120	Performed Vibration #'S 1450,1490,1550 & 1600

Signed: [Signature] 9-26-05

sine W589A-8/97 QA Form Approval GM.



Dynamics Section
Vibration Test Data Sheet

Job No. 52554

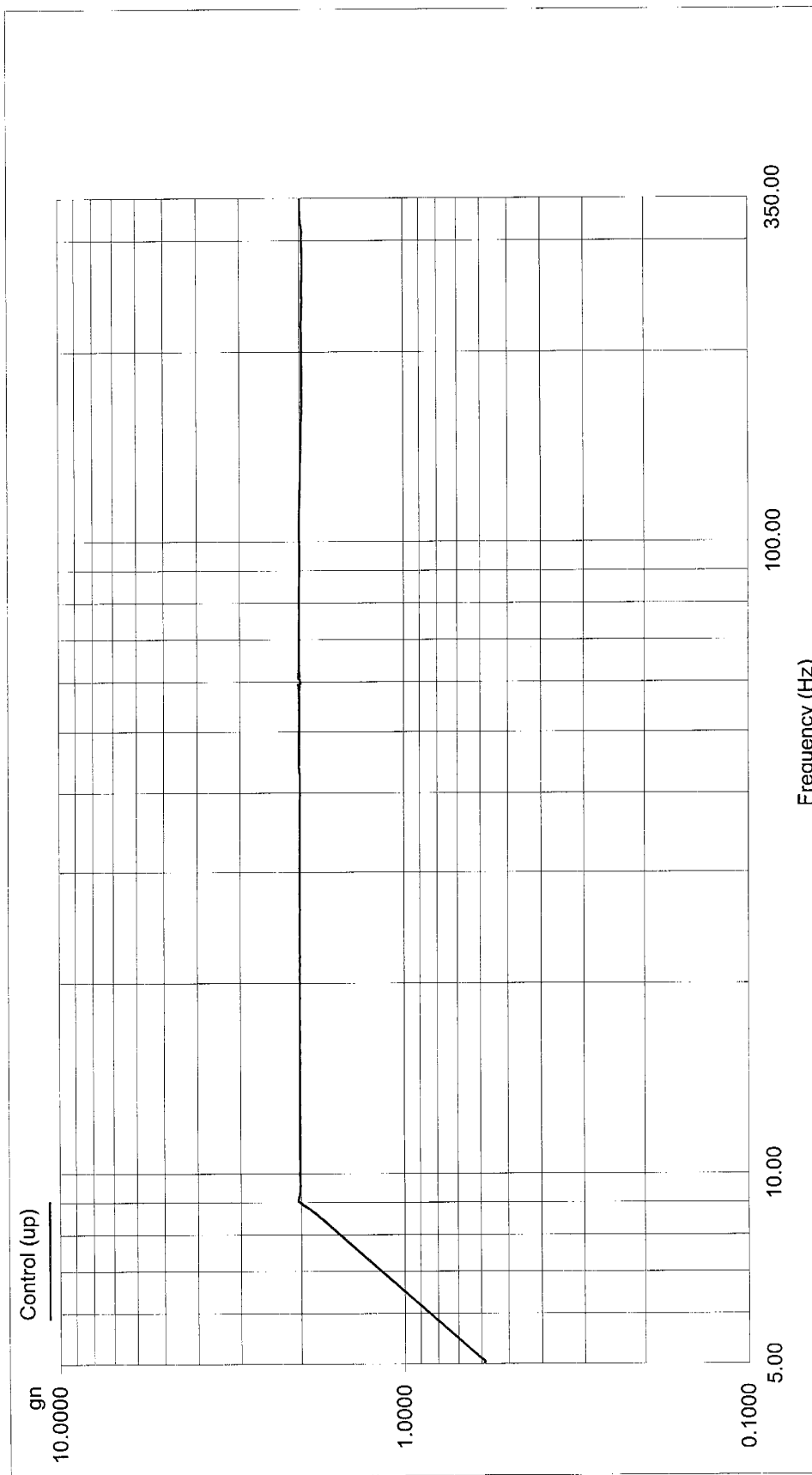
Customer Pelican Products, Inc. Specimen Cases P/N See Recv. Insp. S/N See Recv. Insp.

Date	Time	Axis	Temp. (° F)	Sinusoidal			Test Time (Min.)	Comments
				Freq. (Hz)	Disp. ("DA)	Accel (±G)		
2005	Noted	Noted	Amb.	5-350			120	Test Requirements: Vibration Test K
				5-9Hz	0.46			0.75 (+-0.25) Octave
				9-350Hz		2g		
9/20	1245	S-S	Amb.	5-350	"	"	120	Performed Vibration #'S 1650 & 1660
9/20	1250	T-B	Amb.	5-350	"	"	120	Performed Vibration #'S 1150,1200,1300 & 1400
9/21	0608	F-B	Amb.	5-350	"	"	120	Performed Vibration #'S 1150,1200,1300 & 1400
9/21	0612	T-B	Amb.	5-350	"	"	120	Performed Vibration #'S 1720 & 1750
9/21	1047	S-S	Amb.	5-350	"	"	120	Performed Vibration #'S 1150,1200,1300,1400
9/21	1055	T-B	Amb.	5-350	"	"	120	Performed Vibration #'S 1650 & 1660
9/21	1312	F-B	Amb.	5-350	"	"	120	Performed Vibration #'S 1720 & 1750
9/21	1316	T-B	Amb.	5-350	"	"	120	Performed Vibration #'S 0350 & 0370
9/22	0759	S-S	Amb.	5-350	"	"	120	Performed Vibration #'S 1720 & 1750
9/22	0804	T-B	Amb.	5-350	"	"	120	Performed Vibration #'S 1120,1430 & 1700
9/22	1029	S-S	Amb.	5-350	"	"	120	Performed Vibration #'S 0350 & 0370

Signed: *[Signature]* 9-26-05

Pelican Products, Inc JN-52554 Cases
 Front to Back Axis #'s 1500,1510,1520,1560
 Project File Name: Sine.pj
 Profile Name: Sine Cycling

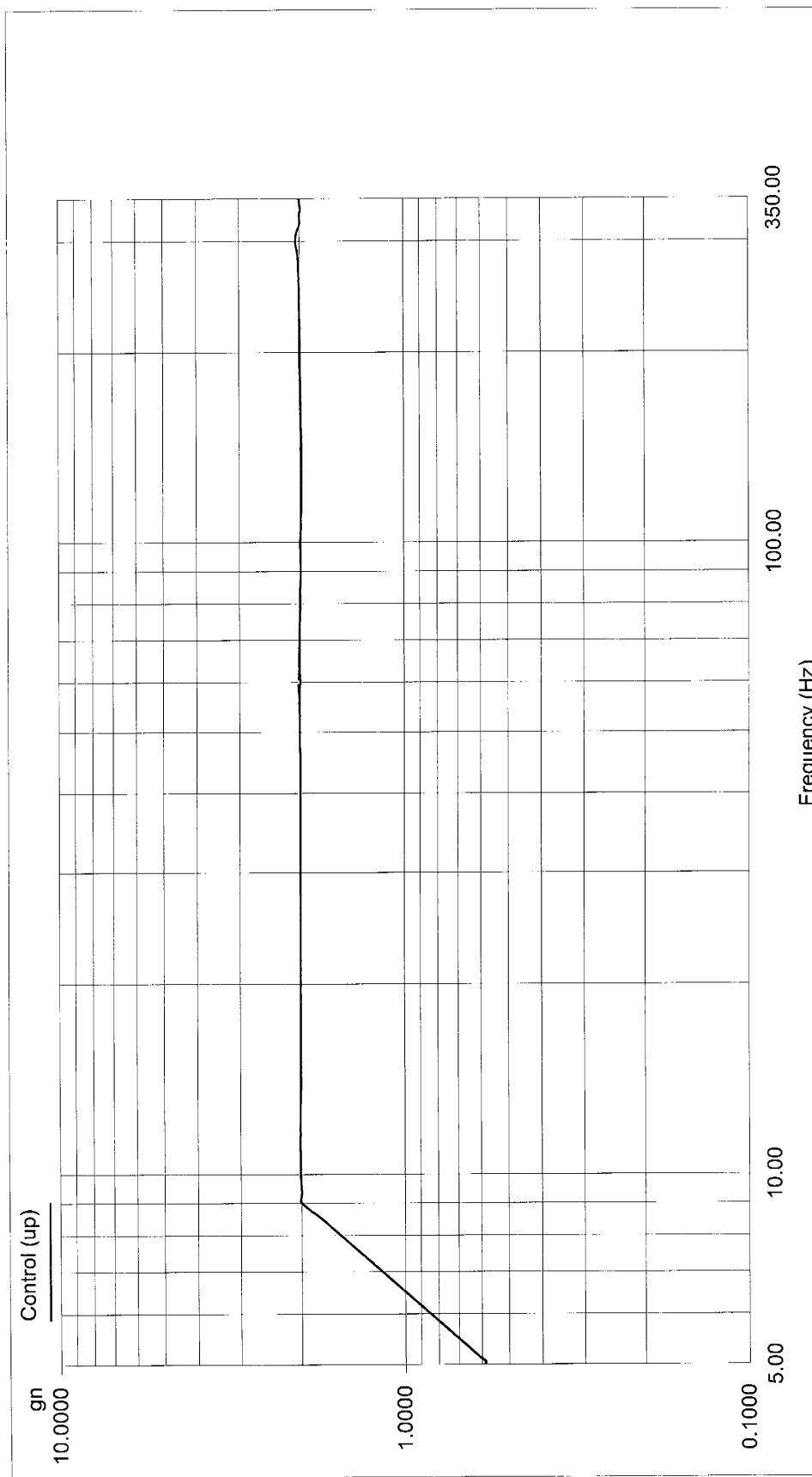
Test Type: Swept Sine Run Folder: .\RunFolder Sep 17, 2005 10-28-45



Level: 0 dB Control Peak: 1.990141 gn Full Level Time: 02:00:05 Sweep Type: Logarithmic
 Frequency: 349.990448 Hz Demand Peak: 2.000000 gn Time Remaining: 00:00:00 Sweep Rate: 0.766 Oct/Min

Pelican Products, Inc JN-52554 Cases
 Side to Side Axis #'s 1500,1510,1520,1560
 Project File Name: Sine.pj
 Profile Name: Sine Cycling

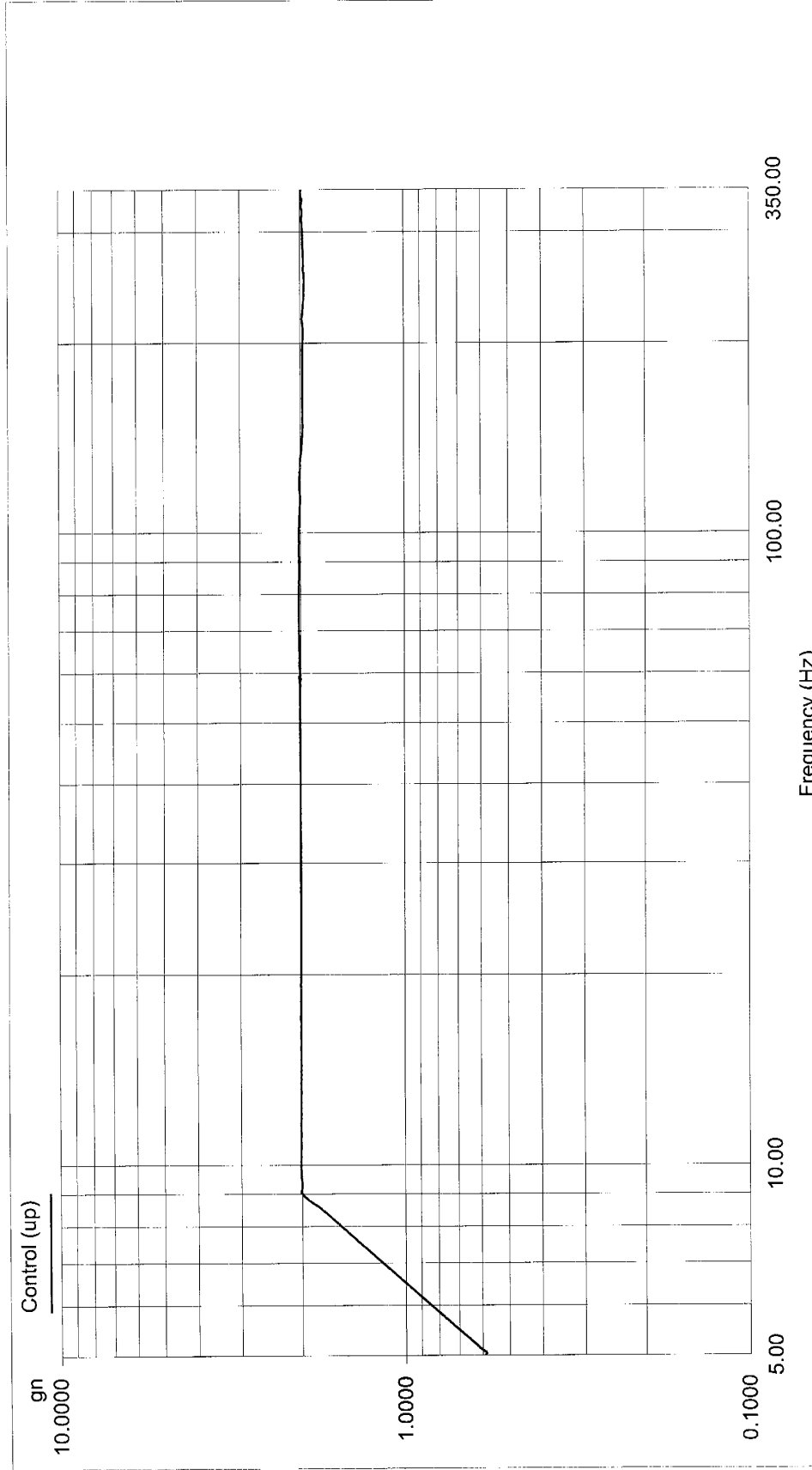
Test Type: Swept Sine Run Folder: .\RunFolder Sep 17, 2005 12-51-20



Level: 0 dB Control Peak: 2.003499 gn Full Level Time: 02:00:05 Sweep Type: Logarithmic
 Frequency: 349.990448 Hz Demand Peak: 2.000000 gn Time Remaining: 00:00:00 Sweep Rate: 0.766 Oct/Min

Pelican Products, Inc JN-52554 Cases
 Side to Side Axis #'s 1450,1490,1550,1600
 Project File Name: Sine.prj
 Profile Name: Sine Cycling

Test Type: Swept Sine Run Folder: .\RunFolder Sep 19, 2005 07-35-52



Level: 0 dB Control Peak: 1.987141 gn Full Level Time: 02:00:05 Sweep Type: Logarithmic
 Frequency: 349.858490 Hz Demand Peak: 2.000000 gn Time Remaining: 00:00:00 Sweep Rate: 0.766 Oct/Min



Control channel

Sine

Pelican Products, Inc. JN-52554

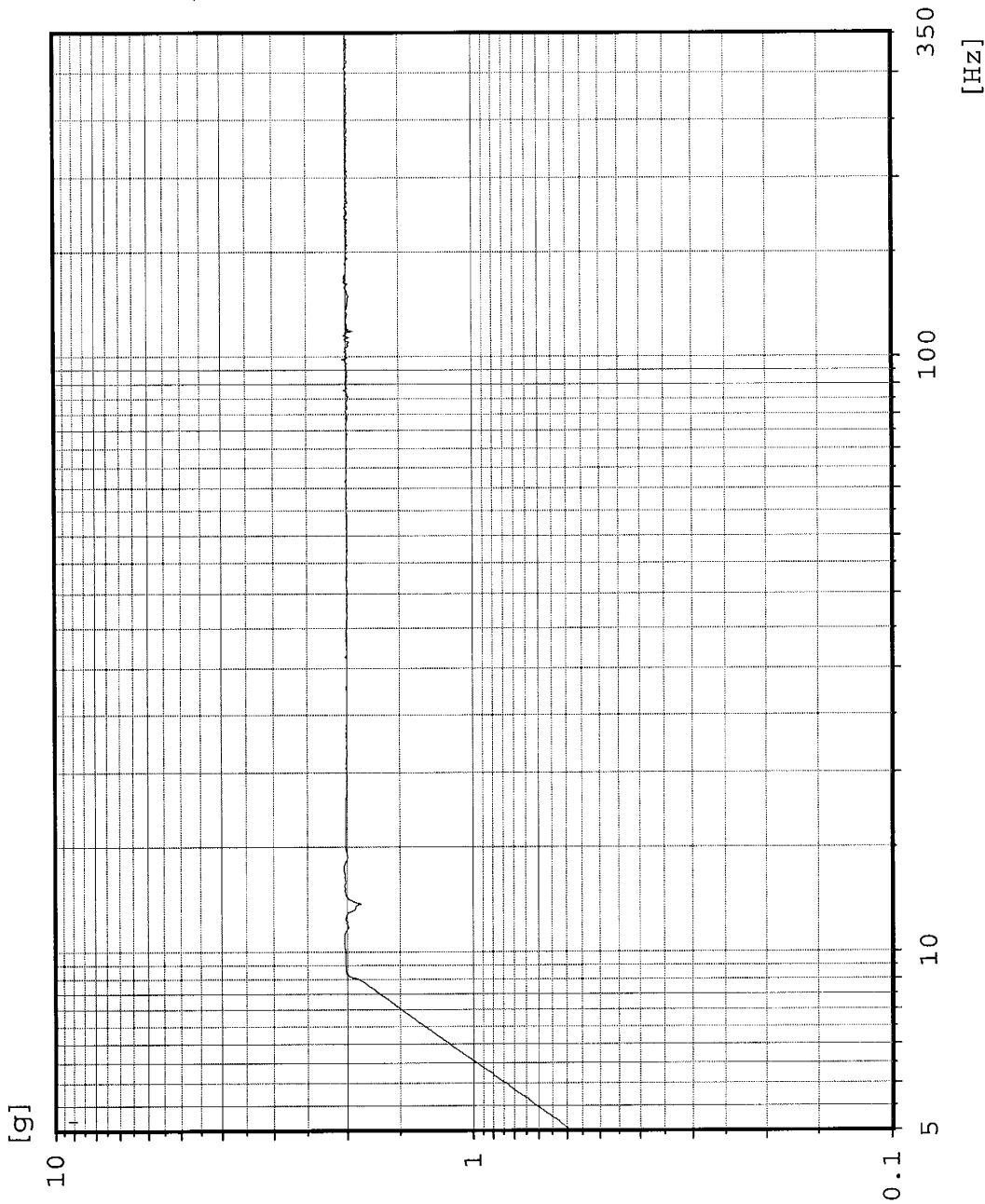
Cases

Sweep type: logarithmic
Sweeps done: 15
Sweeps req.: 15
Sweep direct.: up
Sweep rate: 0.77 Oct/min
Unit: g

-- Testing time --
elapsed: 002:00:02
remaining: 000:00:00

Date: 09-19-05
Time: 09:57:38

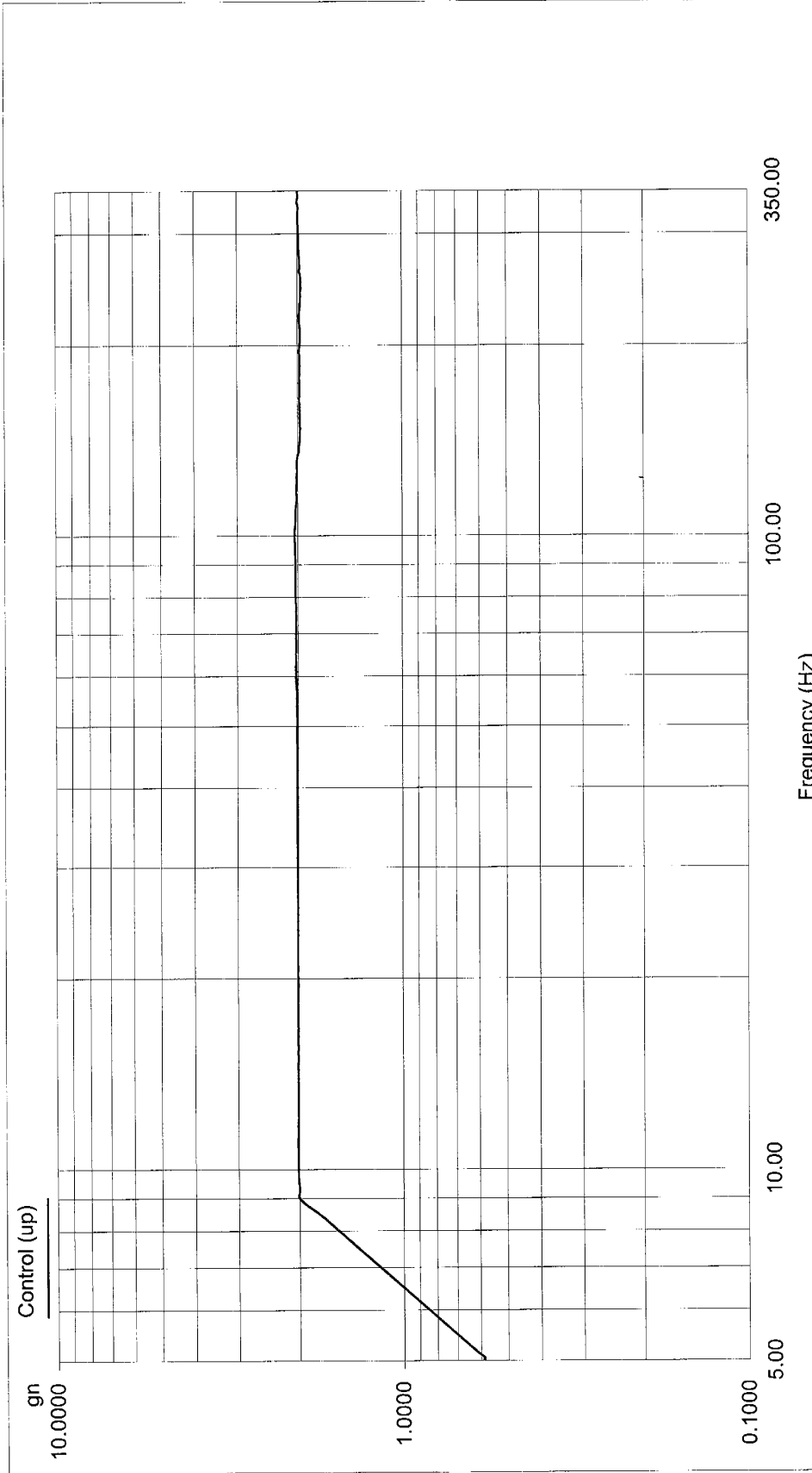
#1620



Top to Bottom

Pelican Products, Inc JN-52554 Cases
 Front to Back Axis #'s 1450,1490,1550,1600
 Project File Name: Sine.pj
 Profile Name: Sine Cycling

Test Type: Swept Sine Run Folder: .\RunFolder Sep 19, 2005 09-54-40



Level: 0 dB Control Peak: 1.995303 gn Full Level Time: 02:00:05 Sweep Type: Logarithmic
 Frequency: 349.627777 Hz Demand Peak: 2.000000 gn Time Remaining: 00:00:00 Sweep Rate: 0.766 Oct/Min



Control channel

Sine

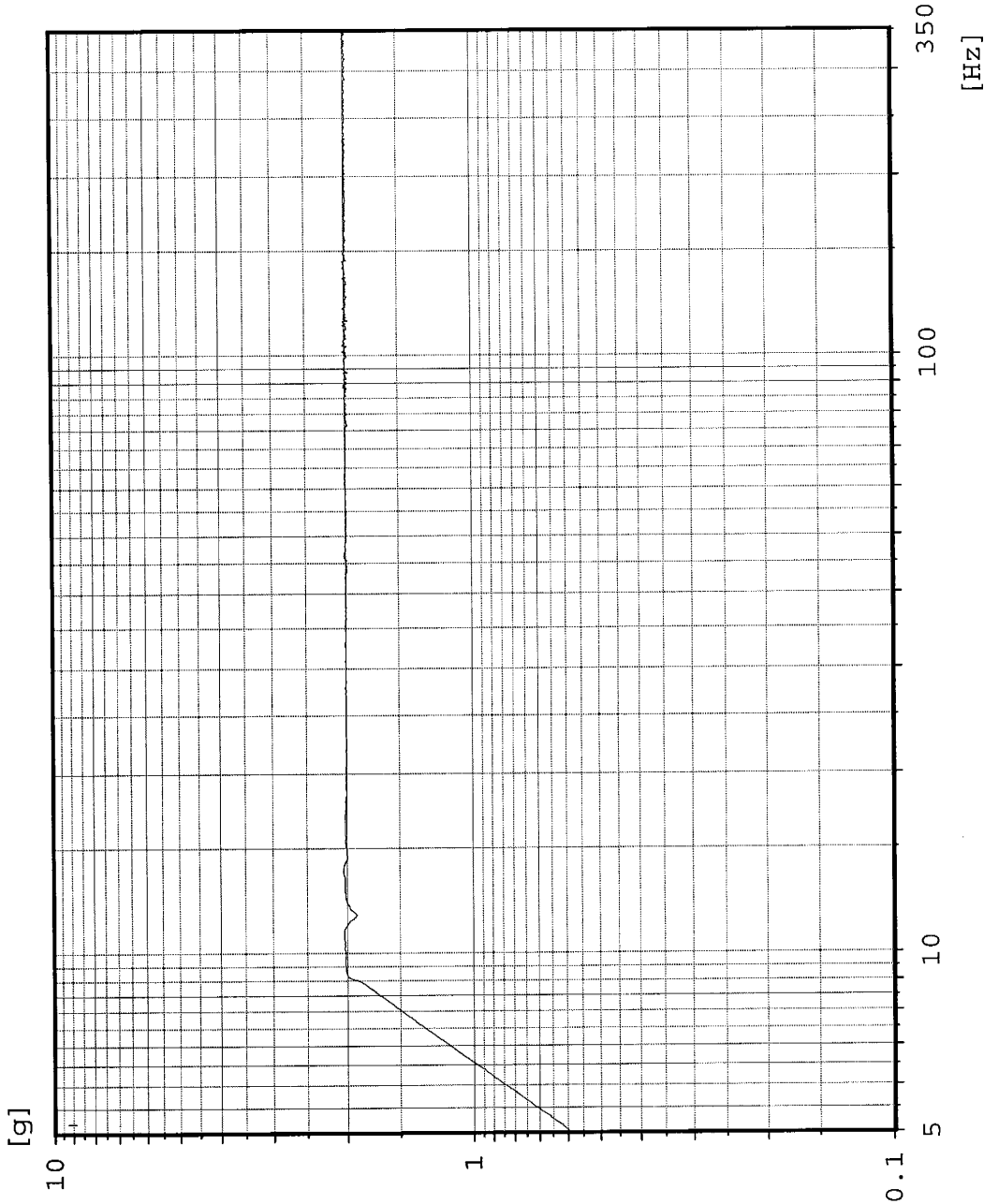
Pelican Products, Inc. JN-52554
Case 1610

Sweep type: logarithmic
Sweeps done: 15
Sweeps req.: 15
Sweep direct.: up
Sweep rate: 0.77 Oct/min
Unit: g

-- Testing time --
elapsed: 002:00:03
remaining: 000:00:00

Date: 09-19-05
Time: 12:07:13

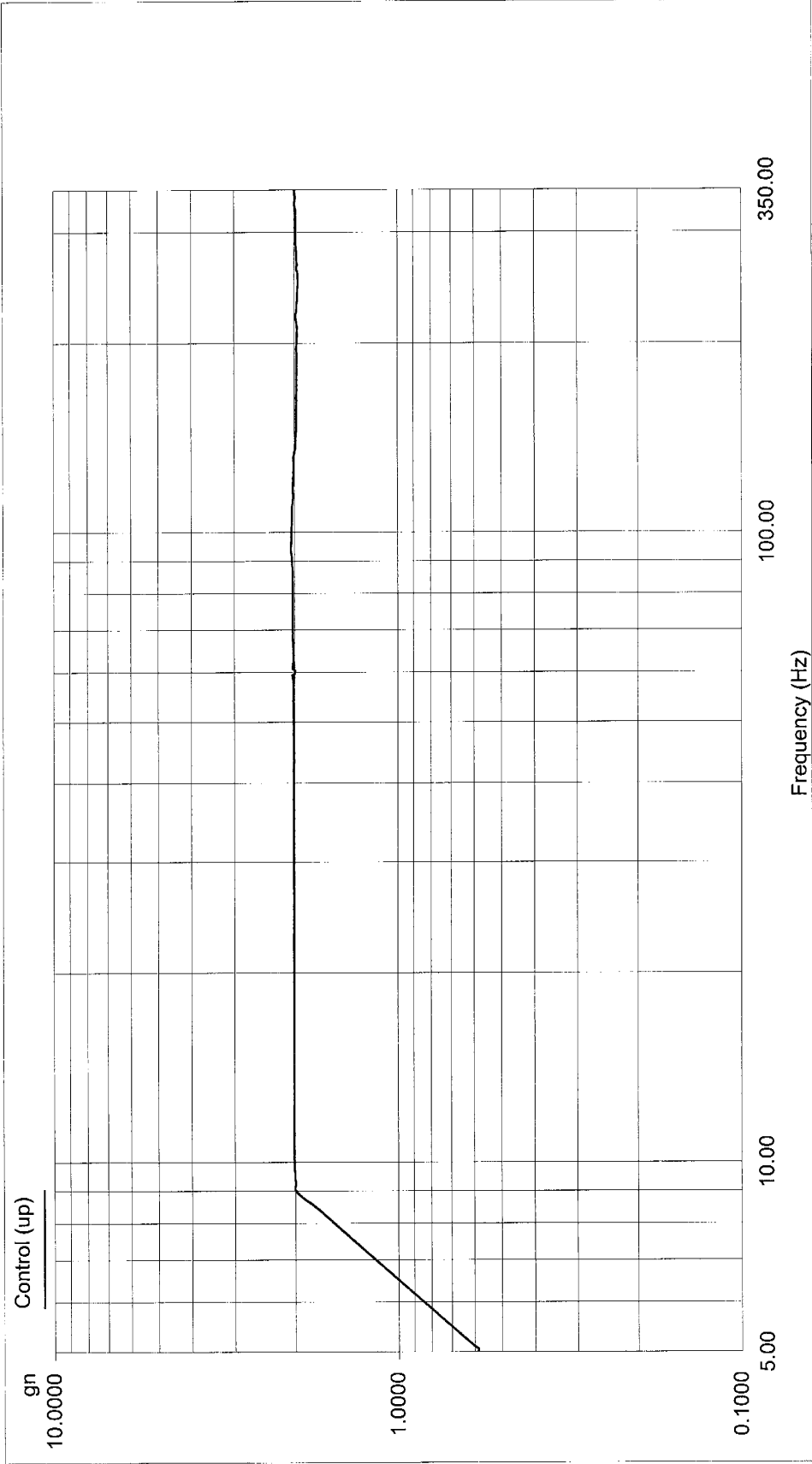
1610



Top to Bottom

Pelican Products, Inc JN-52554 Cases
Front to Back Axis #'s 1610 & 1620
Project File Name: Sine.prj
Profile Name: Sine Cycling

Test Type: Swept Sine Run Folder: .\RunFolder Sep 19, 2005 12-16-58

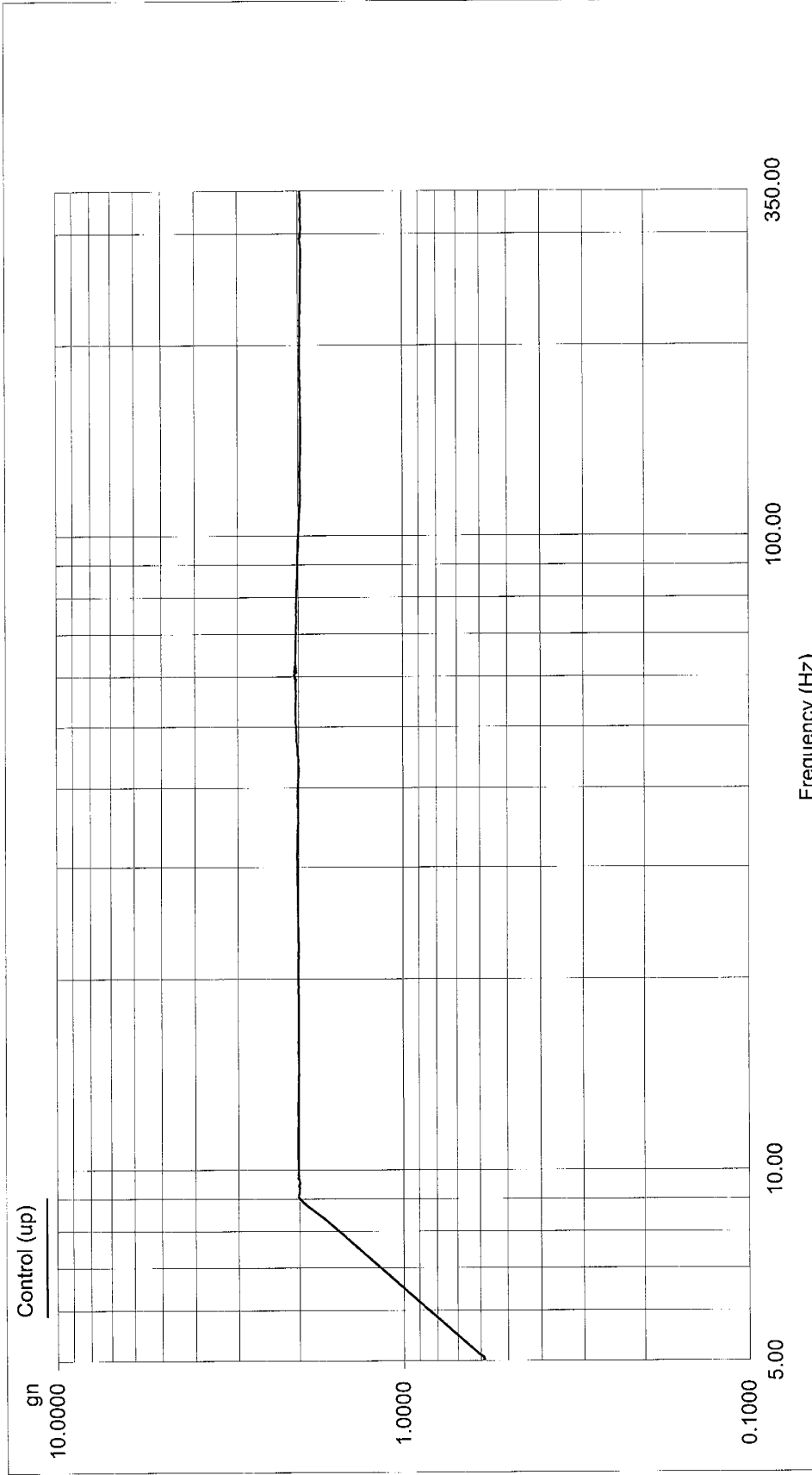


Level: 0 dB Control Peak: 1.995246 gn Full Level Time: 02:00:05 Sweep Type: Logarithmic
Frequency: 349.924469 Hz Demand Peak: 2.000000 gn Time Remaining: 00:00:00 Sweep Rate: 0.766 Oct/Min

Data saved at 02:42:25 PM, Monday, September 19, 2005 Report created at 02:43:06 PM, Monday, September 19, 2005

Pelican Products, Inc JN-52554 Cases
Side to Side Axis #'s 1610 & 1620
Project File Name: Sine.pj
Profile Name: Sine Cycling

Test Type: Swept Sine Run Folder: .\RunFolder Sep 20, 2005 07-08-53



Level: 0 dB Control Peak: 0.597878 gn Full Level Time: 01:52:04 Sweep Type: Logarithmic
Frequency: 5.000495 Hz Demand Peak: 0.587950 gn Time Remaining: 00:08:00 Sweep Rate: 0.766 Oct/Min



Control channel

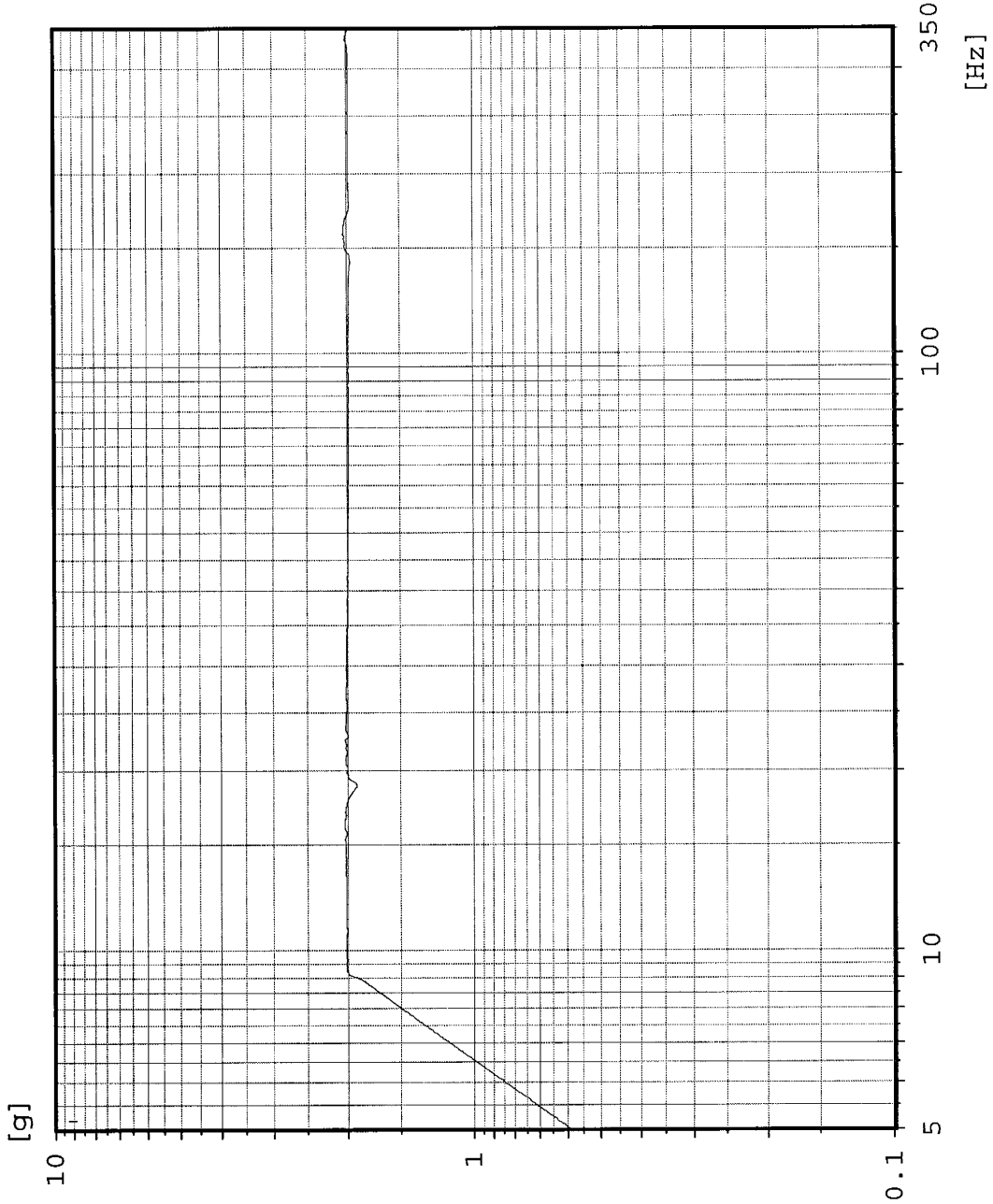
Sine

Pelican Products, Inc. JN-52554
Cases 1500,1510,1520,1560

Sweep type: logarithmic
Sweeps done: 15
Sweeps req.: 15
Sweep direct.: up
Sweep rate: 0.77 Oct/min
Unit: g

-- Testing time --
elapsed: 002:00:03
remaining: 000:00:00

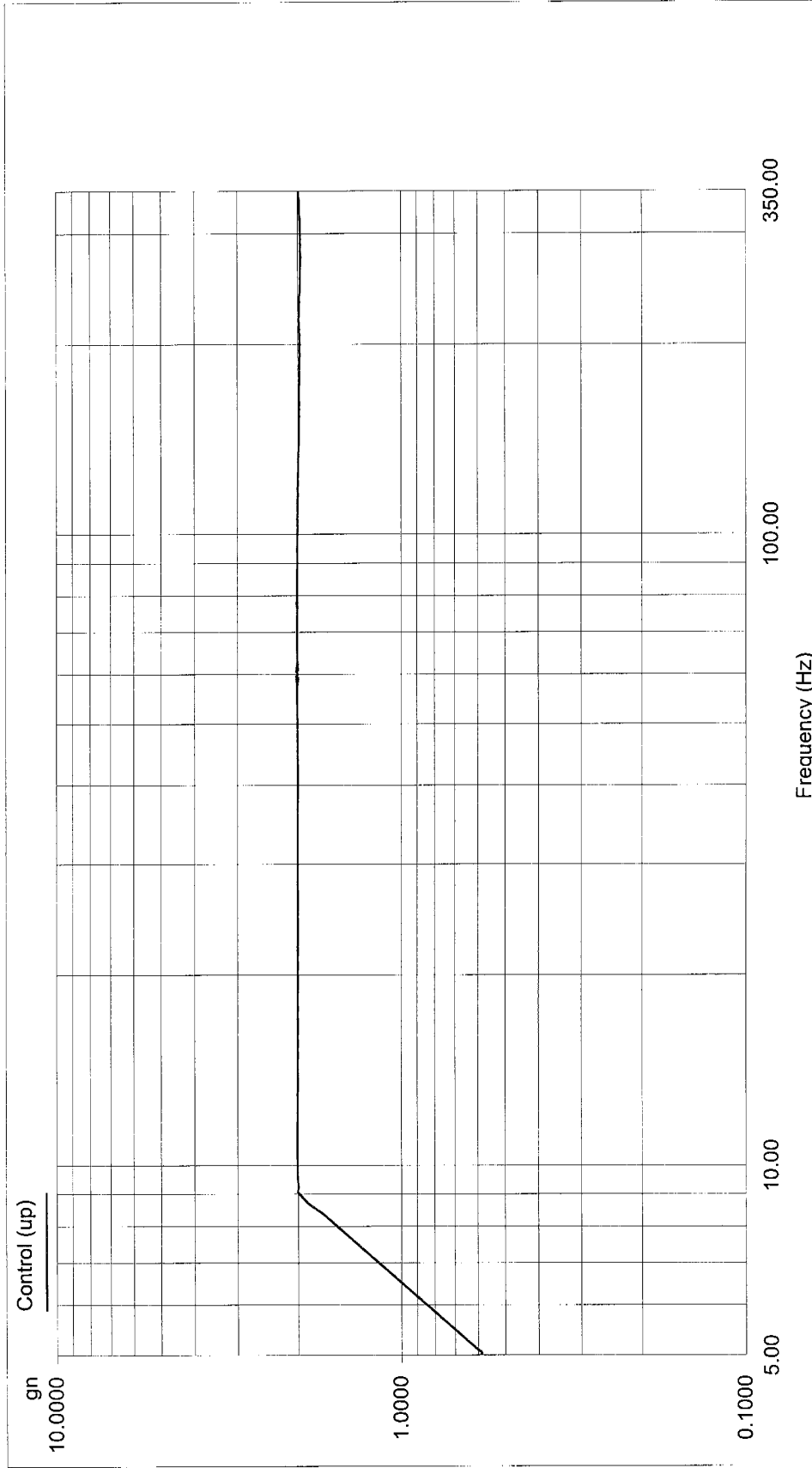
Date: 09-20-05
Time: 10:15:02



Top to Bottom Axis

Pelican Products, Inc JN-52554 Cases
 Front to Back Axis #'s 1650 & 1660
 Project File Name: Sine.ptj
 Profile Name: Sine Cycling

Test Type: Swept Sine Run Folder: .\RunFolder Sep 20, 2005 10-32-57



Level: 0 dB Control Peak: 1.981229 gn Full Level Time: 02:00:05 Sweep Type: Logarithmic
 Frequency: 349.891479 Hz Demand Peak: 2.000000 gn Time Remaining: 00:00:00 Sweep Rate: 0.766 Oct/Min



Control channel

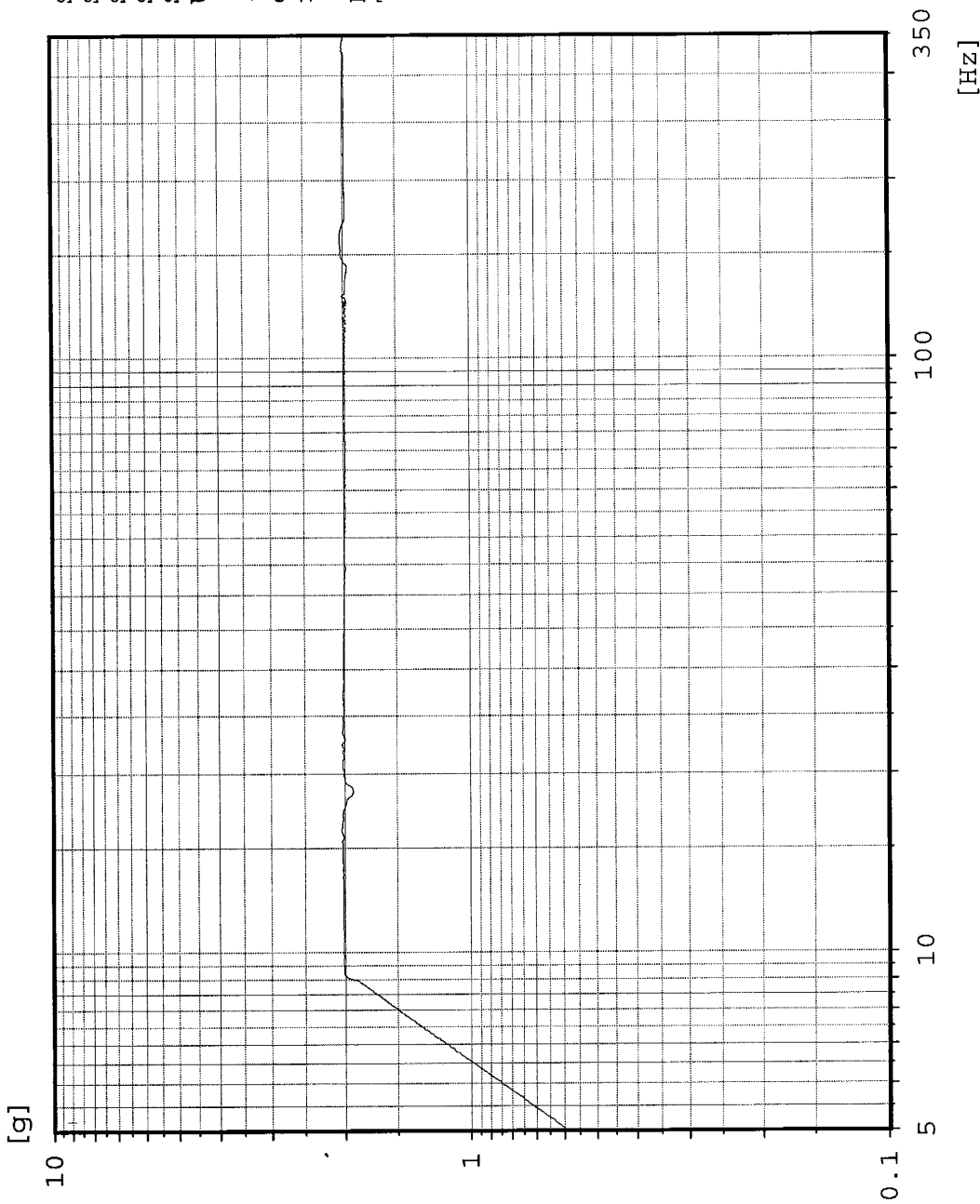
Sine

Pelican Products, Inc. JN-52554
Cases 1450, 1490, 1550, 1600

Sweep type: logarithmic
Sweeps done: 15
Sweeps req.: 15
Sweep direct.: up
Sweep rate: 0.77 Oct/min
Unit: g

-- Testing time --
elapsed: 002:00:03
remaining: 000:00:00

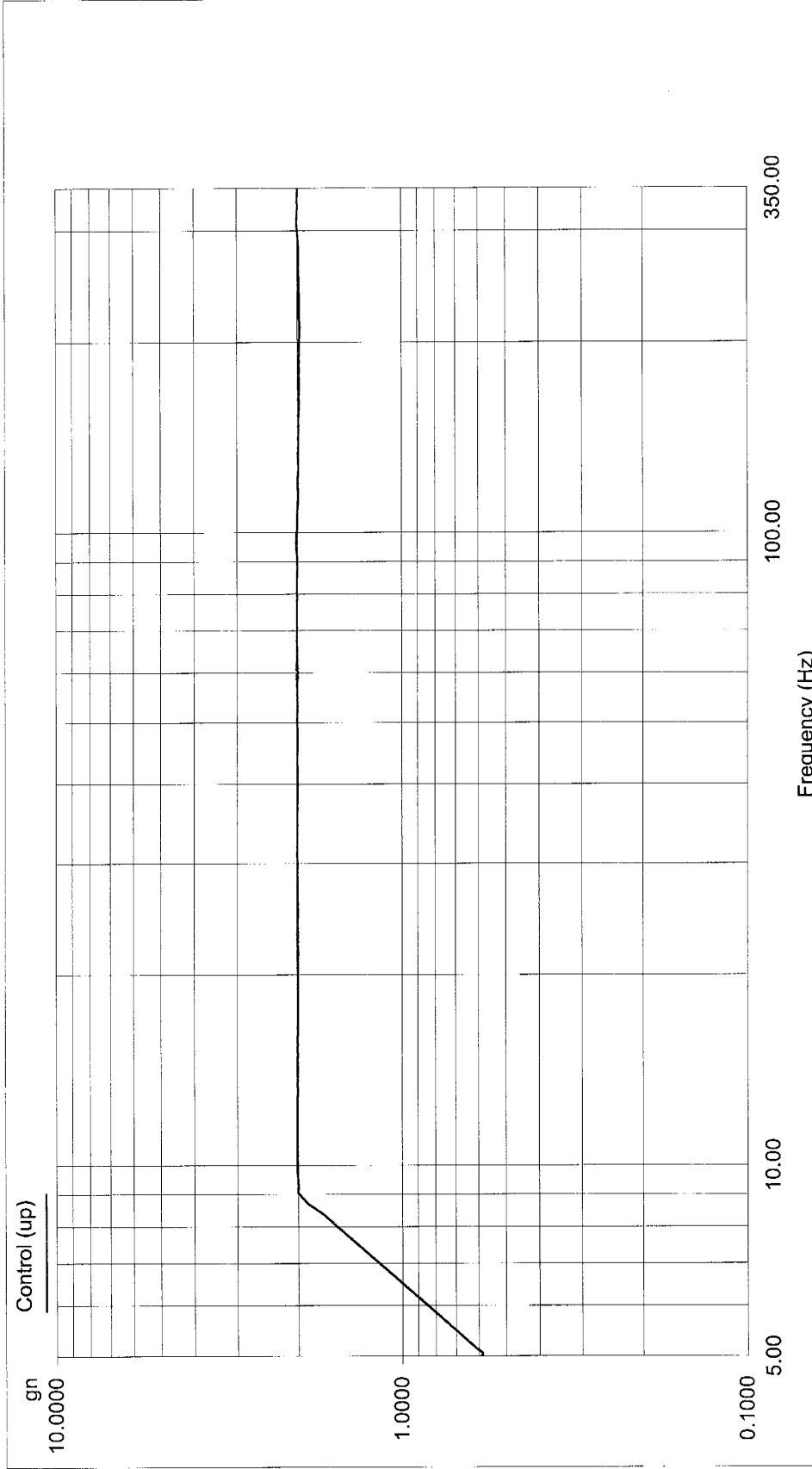
Date: 09-20-05
Time: 12:43:45



Top to Bottom Axis

Pelican Products, Inc JN-52554 Cases
Side to Side Axis #'s 1650 & 1660
Project File Name: Sine.pj
Profile Name: Sine Cycling

Test Type: Swept Sine Run Folder: .\RunFolder Sep 20, 2005 12-44-48



Level: 0 dB Control Peak: 1.999044 gn Full Level Time: 02:00:05 Sweep Type: Logarithmic
Frequency: 349.825531 Hz Demand Peak: 2.000000 gn Time Remaining: 00:00:00 Sweep Rate: 0.766 Oct/Min

Data saved at 02:45:14 PM, Tuesday, September 20, 2005 Report created at 02:49:37 PM, Tuesday, September 20, 2005



Control channel

Sine

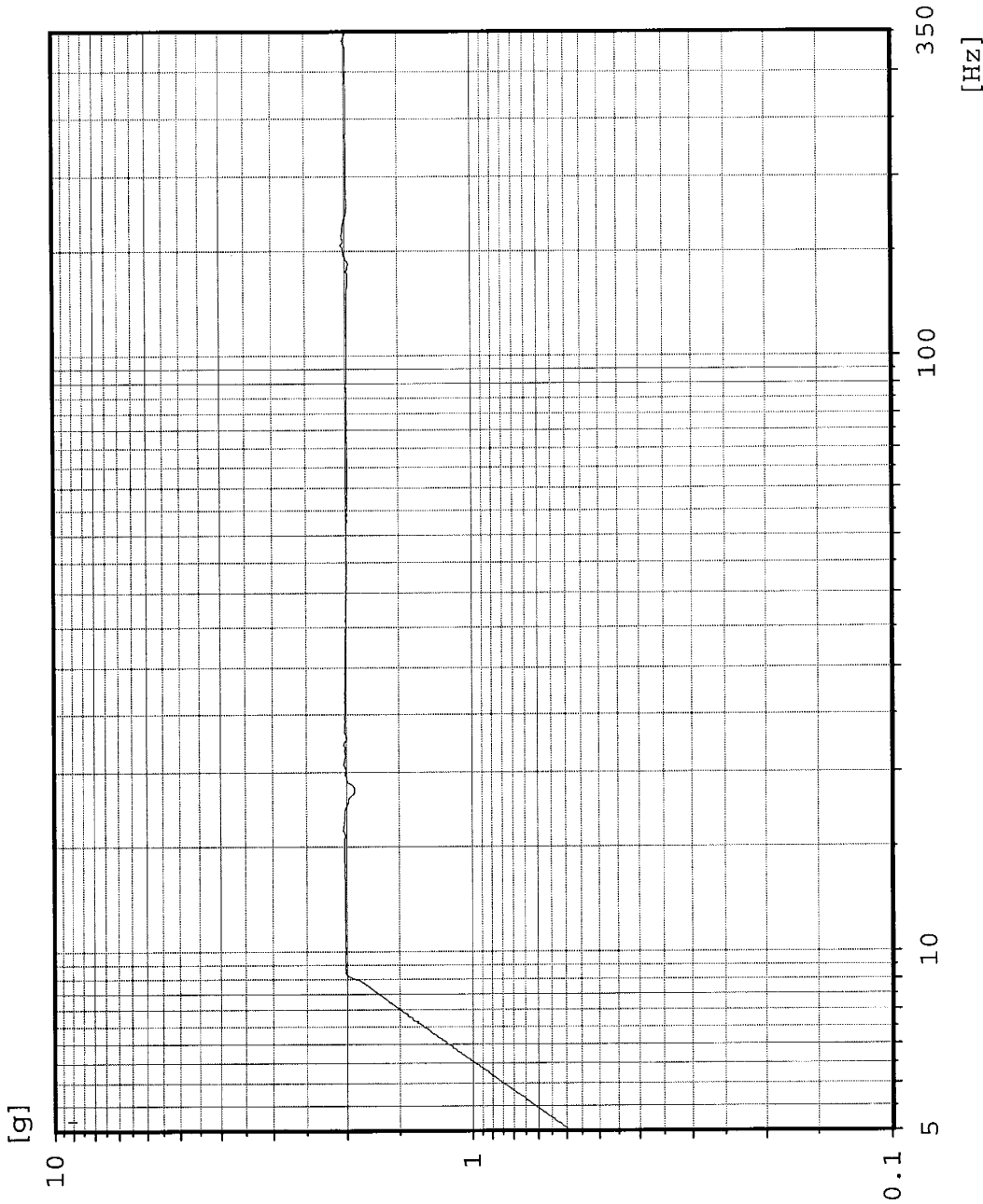
Pelican Products, Inc. JN-52554
Cases 1150, 1200, 1300, 1400

[g]

Sweep type: logarithmic
Sweeps done: 15
Sweeps req.: 15
Sweep direct.: up
Sweep rate: 0.77 Oct/min
Unit: g

-- Testing time --
elapsed: 002:00:02
remaining: 000:00:00

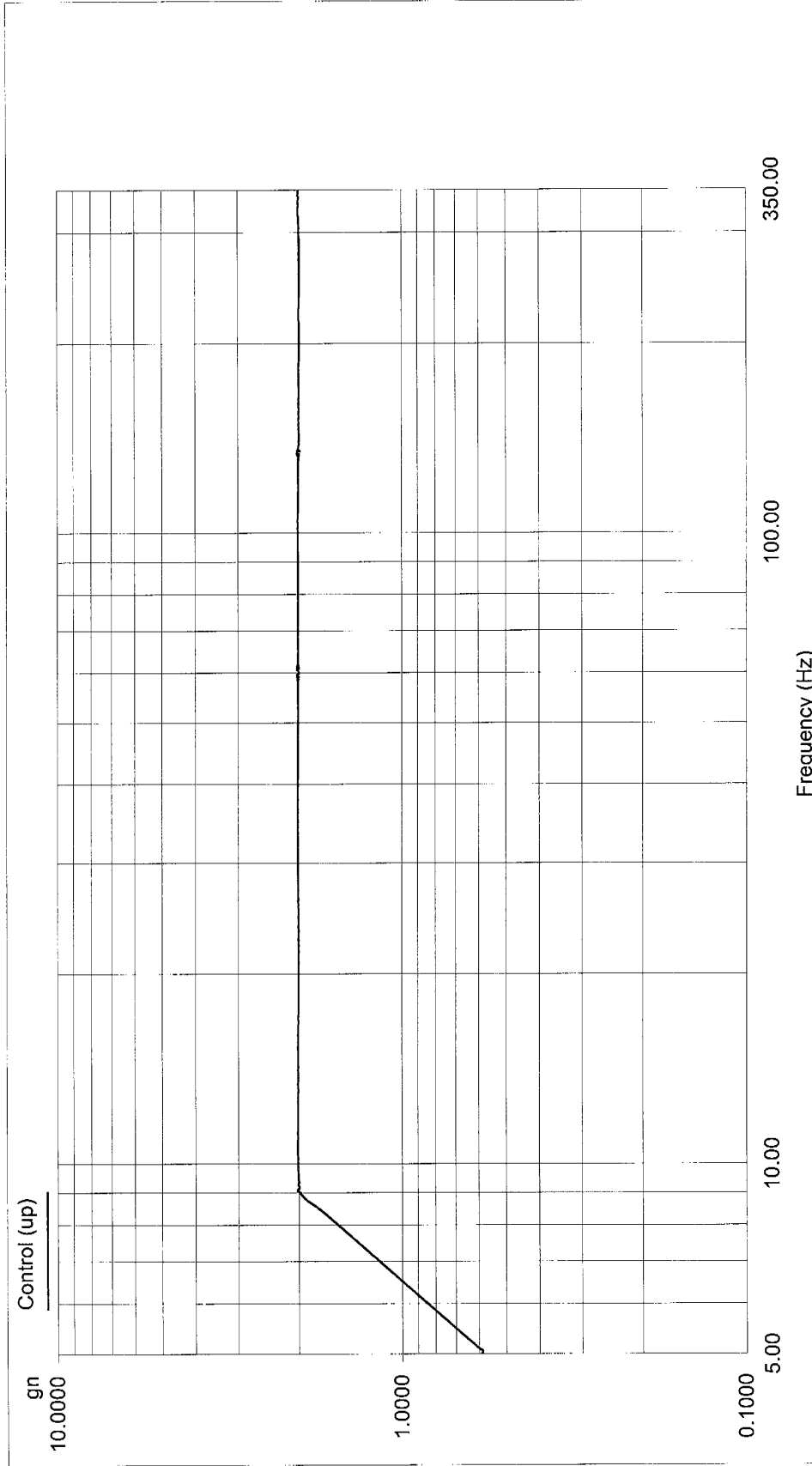
Date: 09-20-05
Time: 14:50:52



Top to Bottom Axis

Pelican Products, Inc JN-52554 Cases
Front to Back Axis #'s 1150, 1200, 1300, 1400
Project File Name: Sine.pj
Profile Name: Sine Cycling

Test Type: Swept Sine Run Folder: .\RunFolder Sep 21, 2005 06-08-23



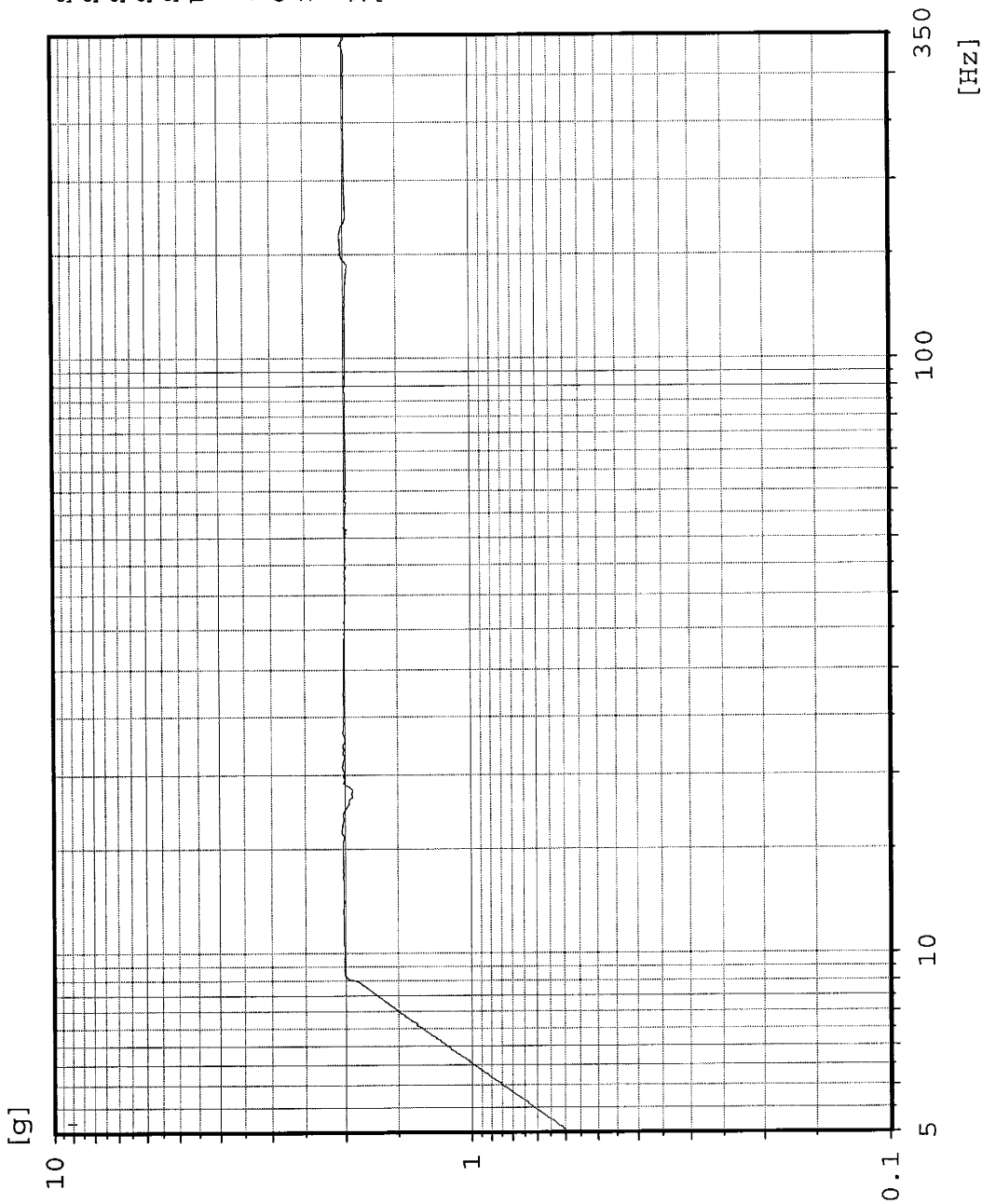
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Frequency: 349.693695 Hz Demand Peak: 2.000000 gn Time Remaining: 00:00:00 Sweep Rate: 0.766 Oct/Min



Control channel

Sine

Pelican Products, Inc. JN-52554
Cases 1720 , 1750



Sweep type: logarithmic
Sweeps done: 15
Sweeps req.: 15
Sweep direct.: up
Sweep rate: 0.77 Oct/min
Unit: g

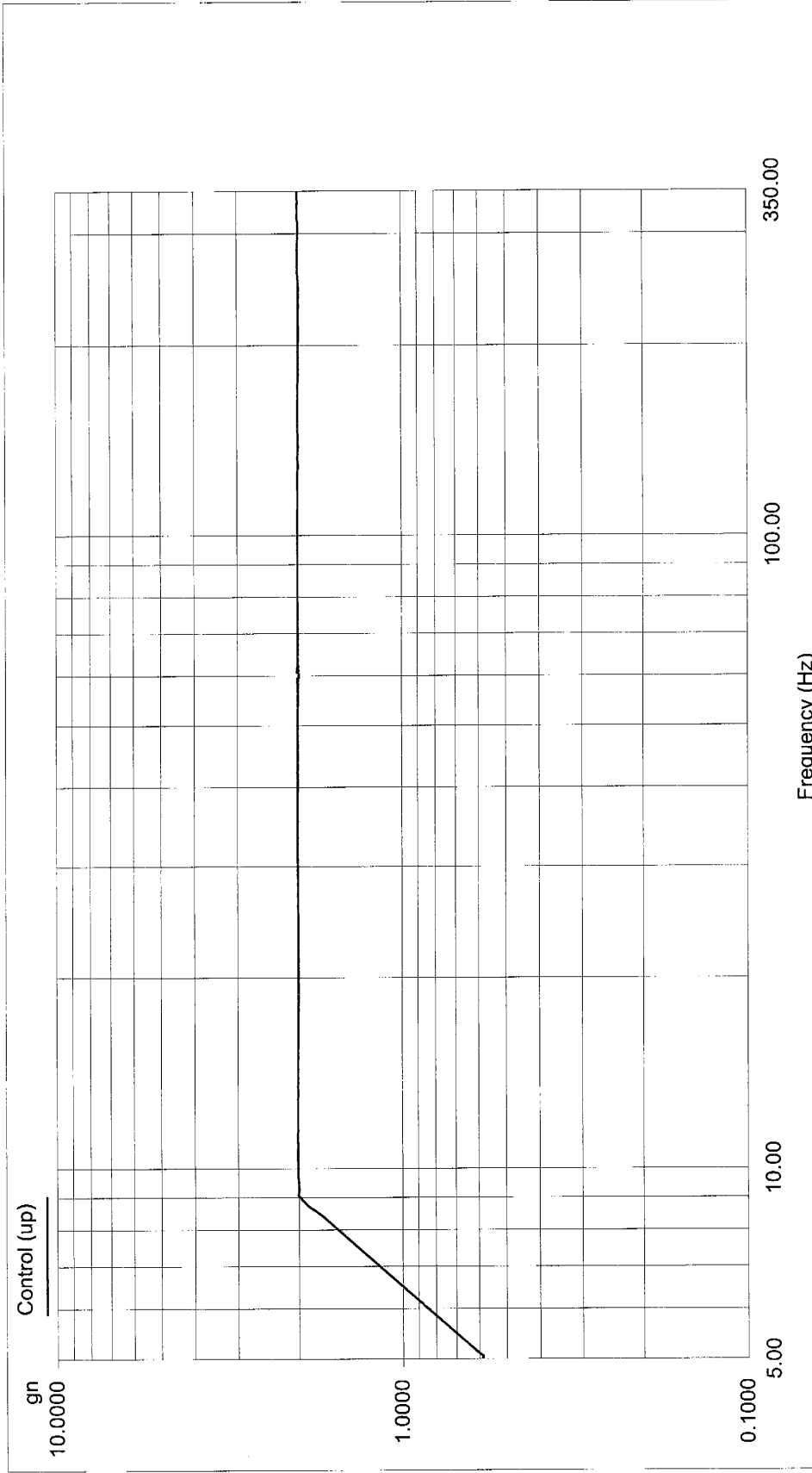
-- Testing time --
elapsed: 002:00:02
remaining: 000:00:00

Date: 09-21-05
Time: 08:22:13

Top to Bottom Axis

Pelican Products, Inc JN-52554 Cases
Side to Side Axis #'s 1150, 1200, 1300, 1400
Project File Name: Sine.pj
Profile Name: Sine Cycling

Test Type: Swept Sine Run Folder: .\RunFolder Sep 21, 2005 10-47-33



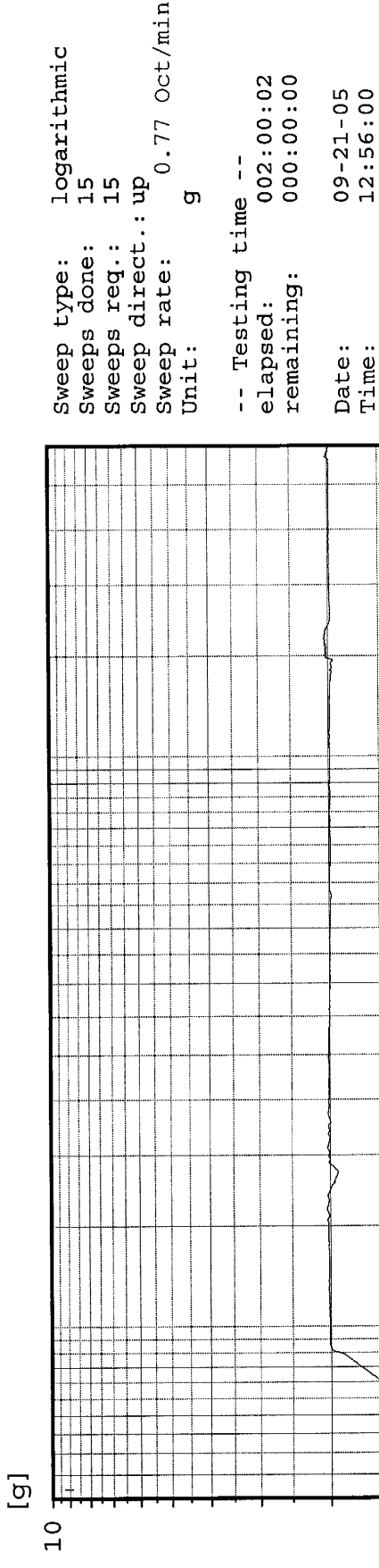
Level: 0 dB Control Peak: 1.997891 gn Full Level Time: 02:00:05 Sweep Type: Logarithmic
Frequency: 349.726654 Hz Demand Peak: 2.000000 gn Time Remaining: 00:00:00 Sweep Rate: 0.766 Oct/Min



Control channel

Sine

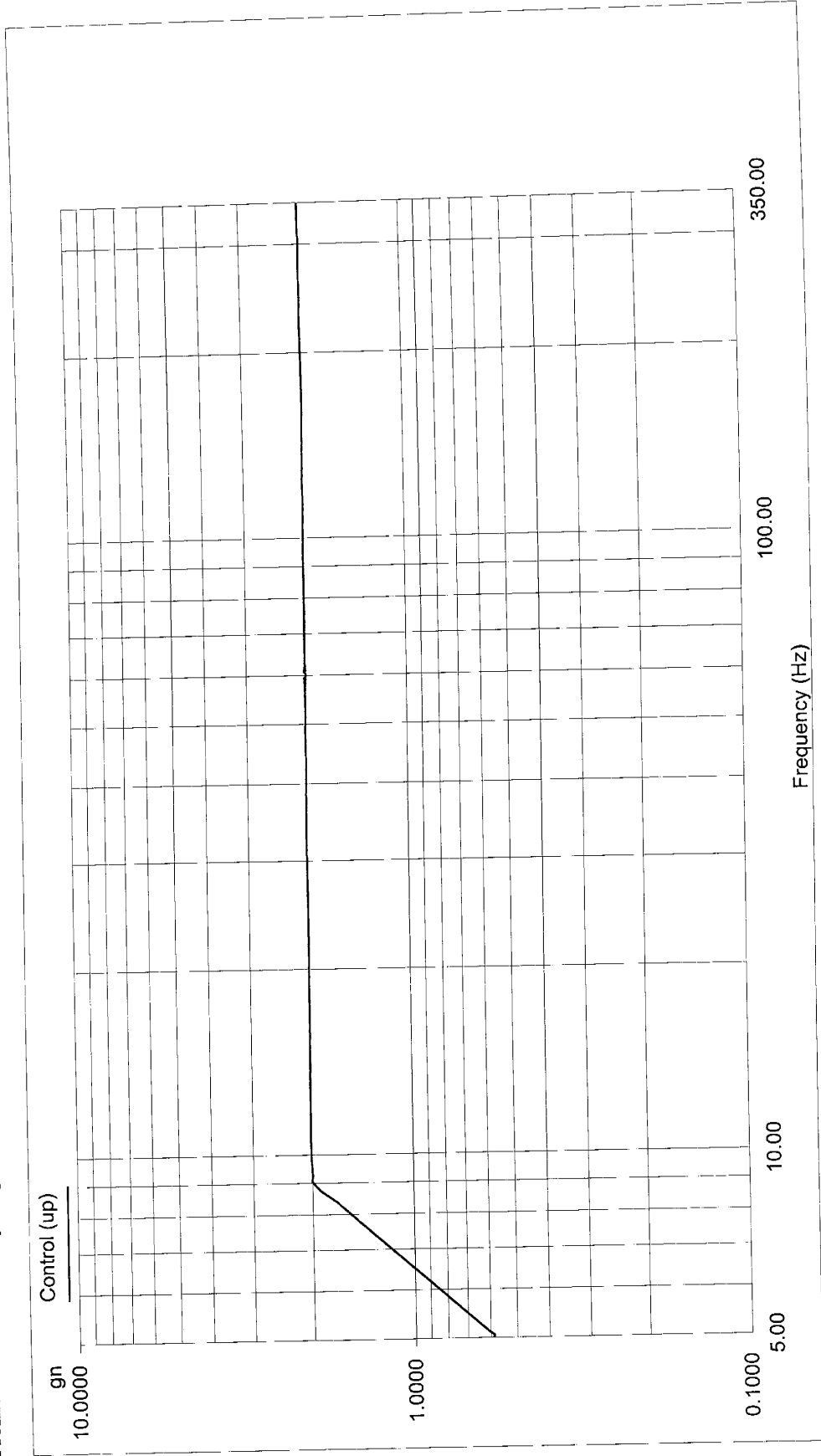
Pelican Products, Inc. JN-52554
Cases 1650 & 1660



Top to Bottom Axis

Pelican Products, Inc JN-52554 Cases
 Front to Back Axis #'s 1720 & 1750
 Project File Name: Sine.pfj
 Profile Name: Sine Cycling

Test Type: Swept Sine
 Run Folder: .\RunFolder Sep 21, 2005 13-11-50



Level: 0 dB
 Frequency: 349.825531 Hz
 Control Peak: 1.998571 gn
 Demand Peak: 2.000000 gn
 Full Level Time: 02:00:05
 Time Remaining: 00:00:00
 Sweep Type: Logarithmic
 Sweep Rate: 0.766 Oct/Min



Control channel

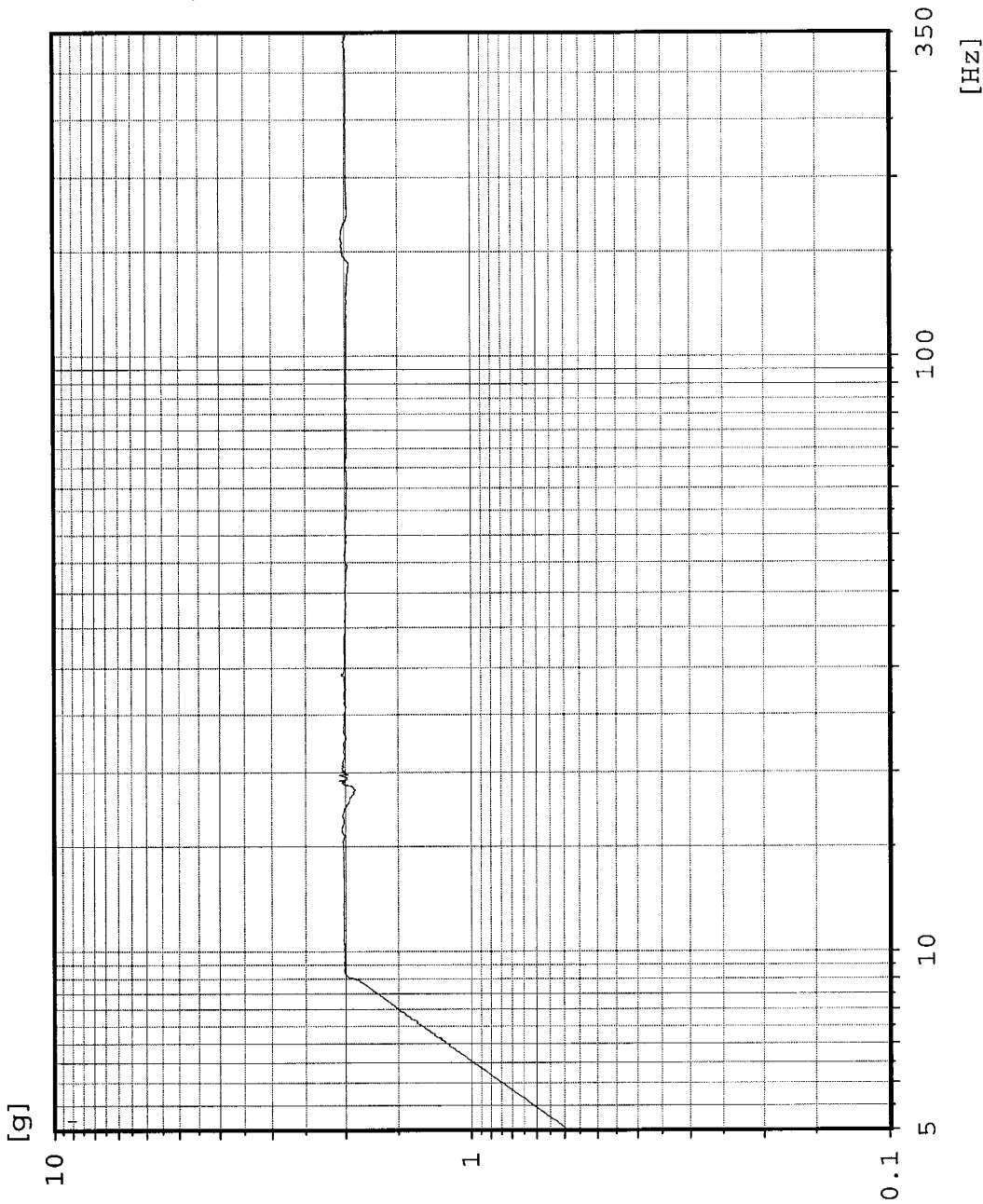
Sine

Pelican Products, Inc. JN-52554
Cases 0350 & 0370

Sweep type: logarithmic
Sweeps done: 15
Sweeps req.: 15
Sweep direct.: up
Sweep rate: 0.77 Oct/min
Unit: g

-- Testing time --
elapsed: 002:00:02
remaining: 000:00:00

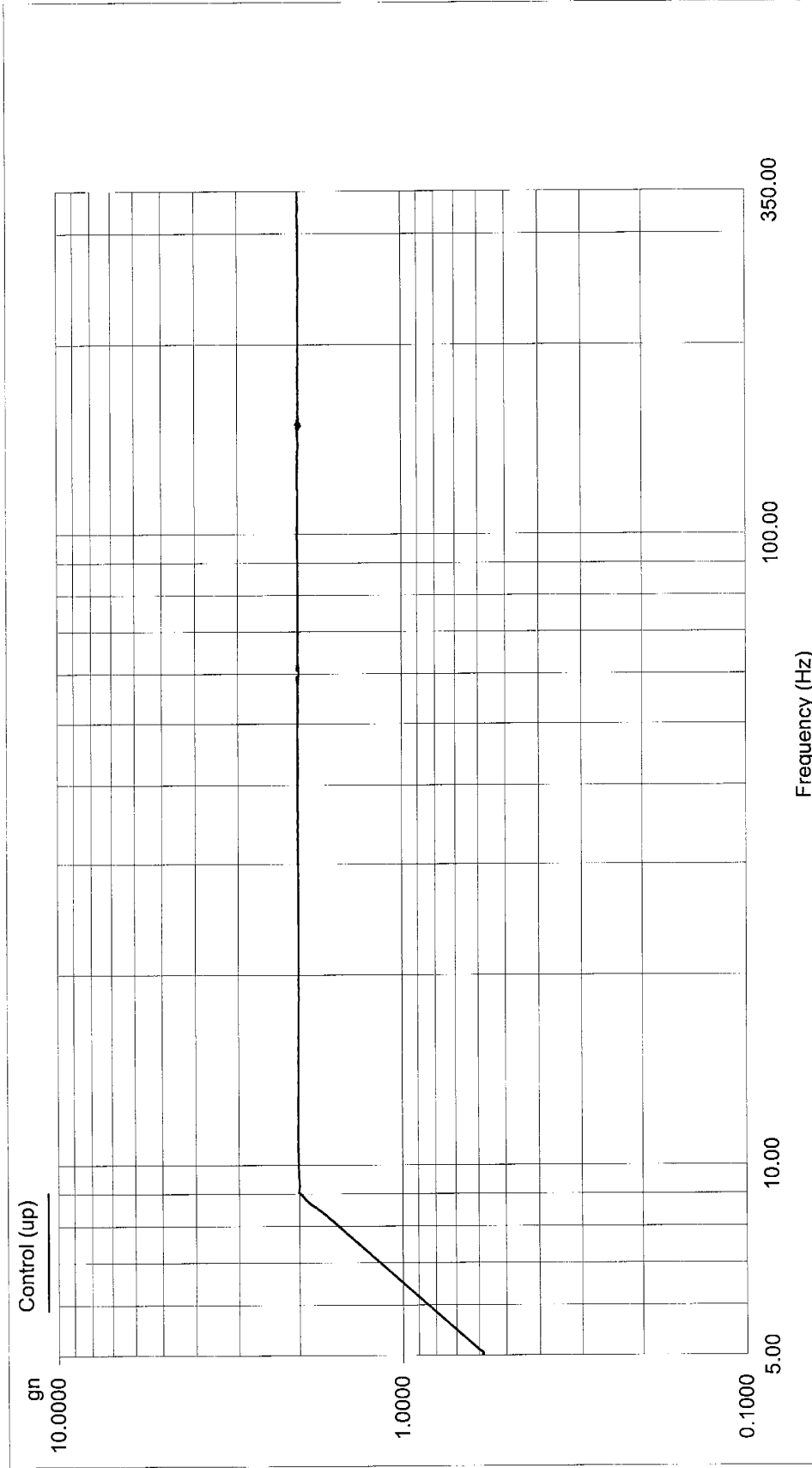
Date: 09-21-05
Time: 15:22:23



Top to Bottom Axis

Pelican Products, Inc JN-52554 Cases
Side to Side Axis #'s 1720 & 1750
Project File Name: Sine.pj
Profile Name: Sine Cycling

Test Type: Swept Sine Run Folder: .\RunFolder Sep 22, 2005 07-59-23

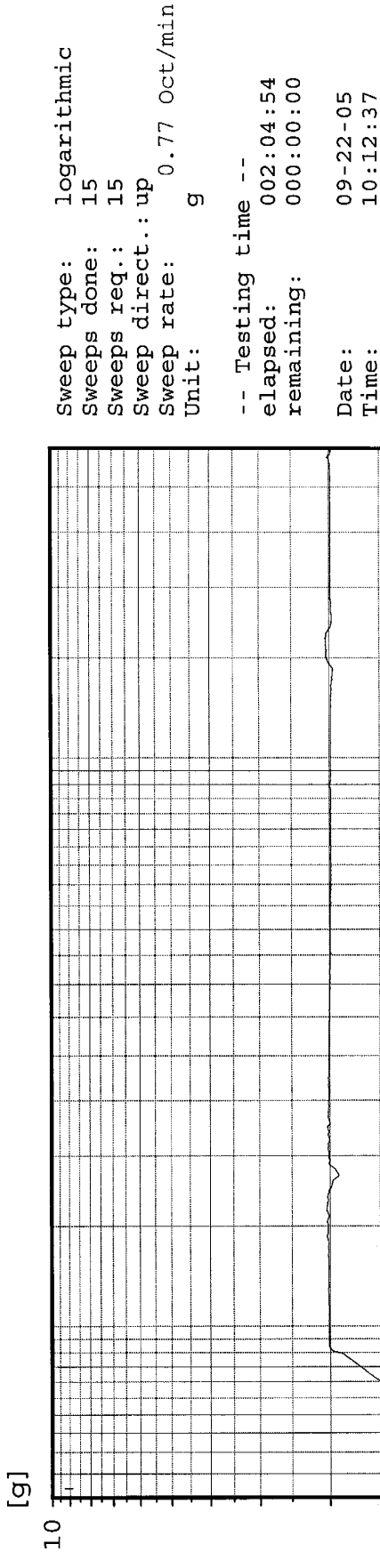


Level: 0 dB Control Peak: 1.994370 gn Full Level Time: 02:00:05 Sweep Type: Logarithmic
Frequency: 349.627777 Hz Demand Peak: 2.000000 gn Time Remaining: 00:00:00 Sweep Rate: 0.766 Oct/Min



Sine Control channel

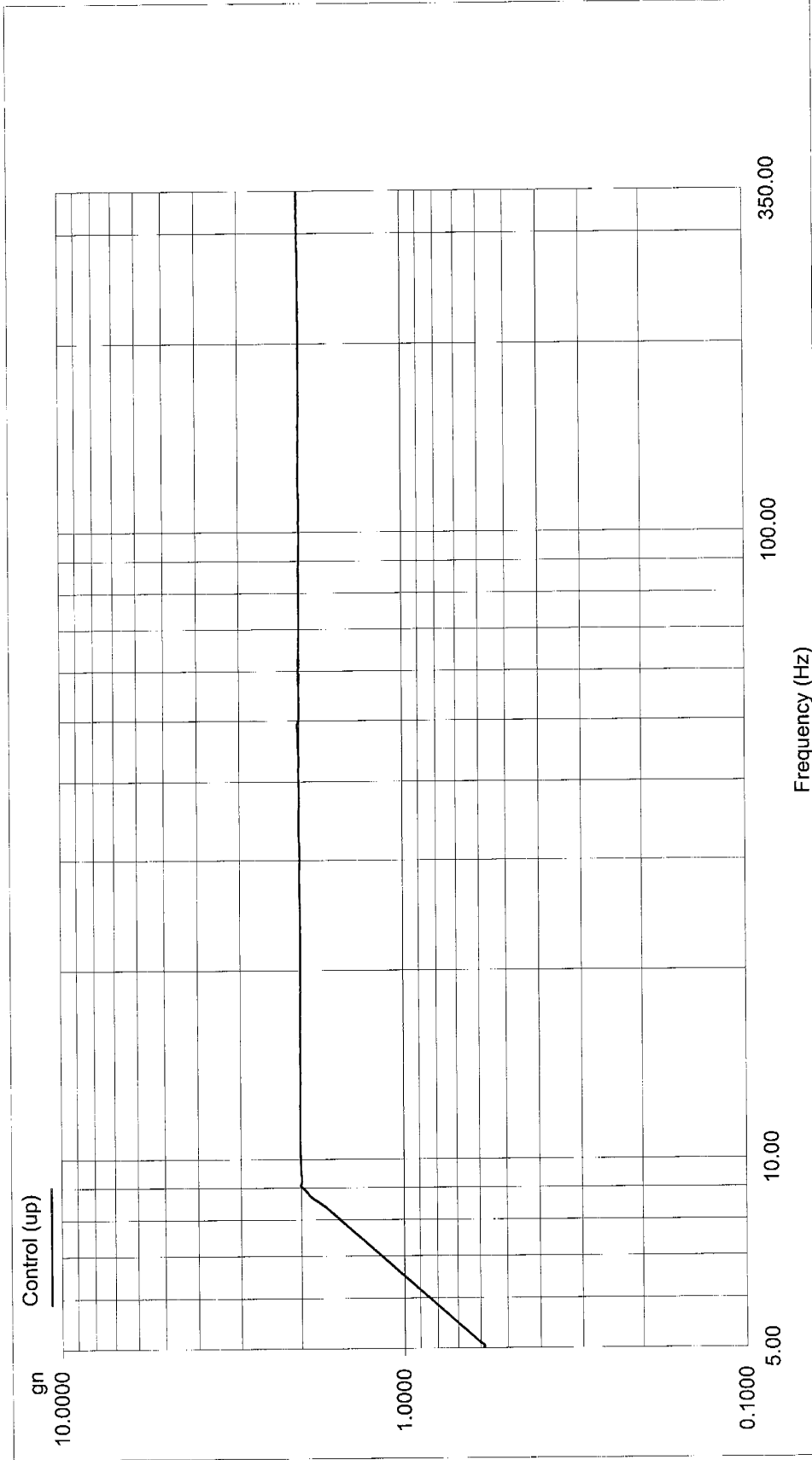
Pelican Products, Inc. JN-52554
Cases 1120, 1430, 1700



Top to Bottom Axis

Pelican Products, Inc JN-52554 Cases
Side to Side Axis #'s 0350 & 0370
Project File Name: Sine.pfj
Profile Name: Sine Cycling

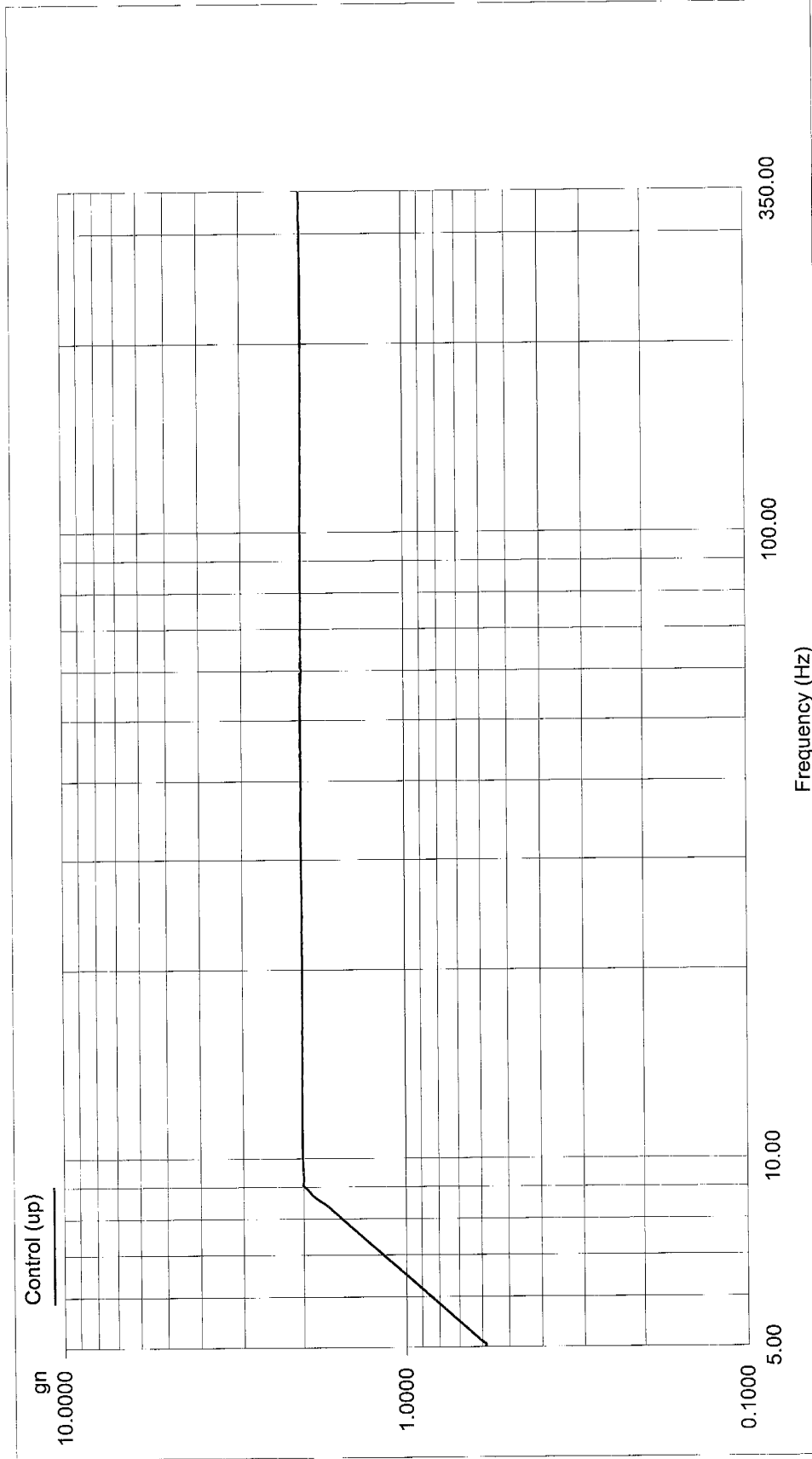
Test Type: Swept Sine Run Folder: .\RunFolder Sep 22, 2005 10-28-54



Level: 0 dB Control Peak: 2.004933 gn Full Level Time: 02:00:05 Sweep Type: Logarithmic
Frequency: 349.891479 Hz Demand Peak: 2.000000 gn Time Remaining: 00:00:00 Sweep Rate: 0.766 Oct/Min

Pelican Products, Inc JN-52554 Cases
Front to Back Axis #'s 0350 & 0370
Project File Name: Sine.prj
Profile Name: Sine Cycling

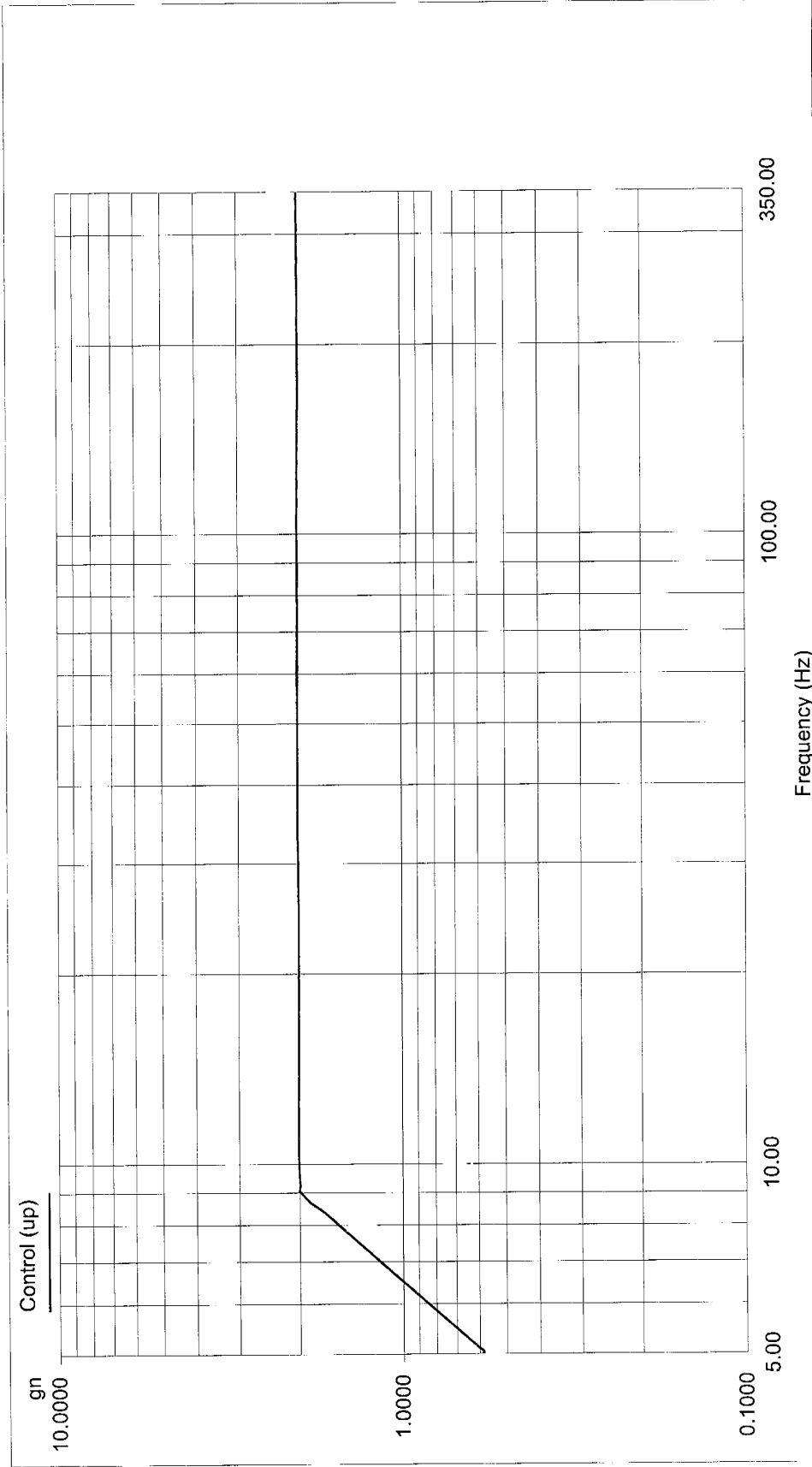
Test Type: Swept Sine Run Folder: \RunFolder Sep 22, 2005 12-37-39



Level: 0 dB Control Peak: 1.998244 gn Full Level Time: 02:00:05 Sweep Type: Logarithmic
Frequency: 349.792572 Hz Demand Peak: 2.000000 gn Time Remaining: 00:00:00 Sweep Rate: 0.766 Oct/Min

Pelican Products, Inc JN-52554 Cases
Side to Side Axis #'s 1120,1430 &1700
Project File Name: Sine.prj
Profile Name: Sine Cycling

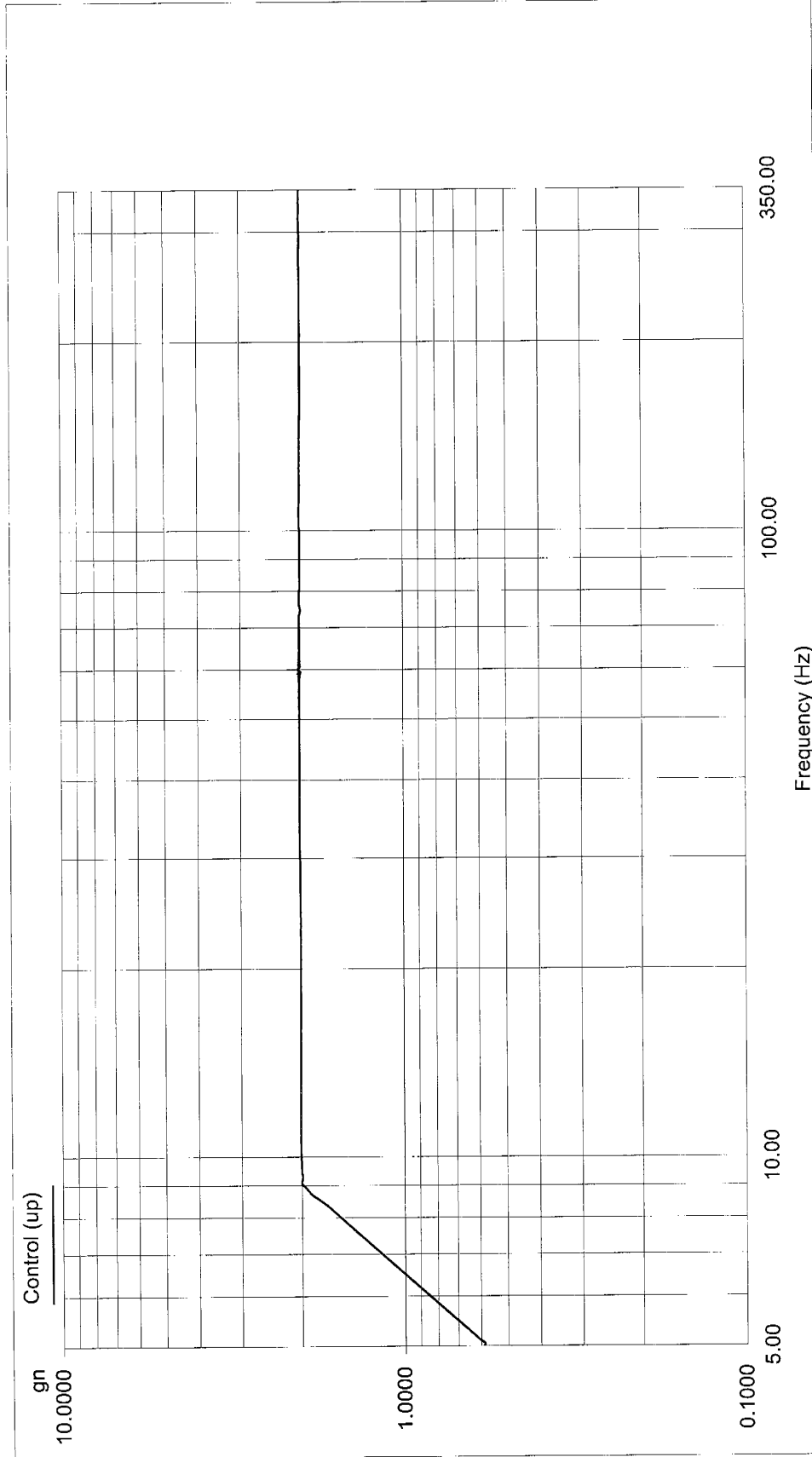
Test Type: Swept Sine Run Folder: .\RunFolder Sep 23, 2005 07-13-22



Level: 0 dB Control Peak: 1.998095 gn Full Level Time: 02:00:05 Sweep Type: Logarithmic
Frequency: 349.924469 Hz Demand Peak: 2.000000 gn Time Remaining: 00:00:00 Sweep Rate: 0.766 Oct/Min

Pelican Products, Inc JN-52554 Cases
Front to Back Axis #'s1120,1430,1700
Project File Name: Sine.prj
Profile Name: Sine Cycling

Test Type: Swept Sine Run Folder: \RunFolder Sep 23, 2005 09-28-45

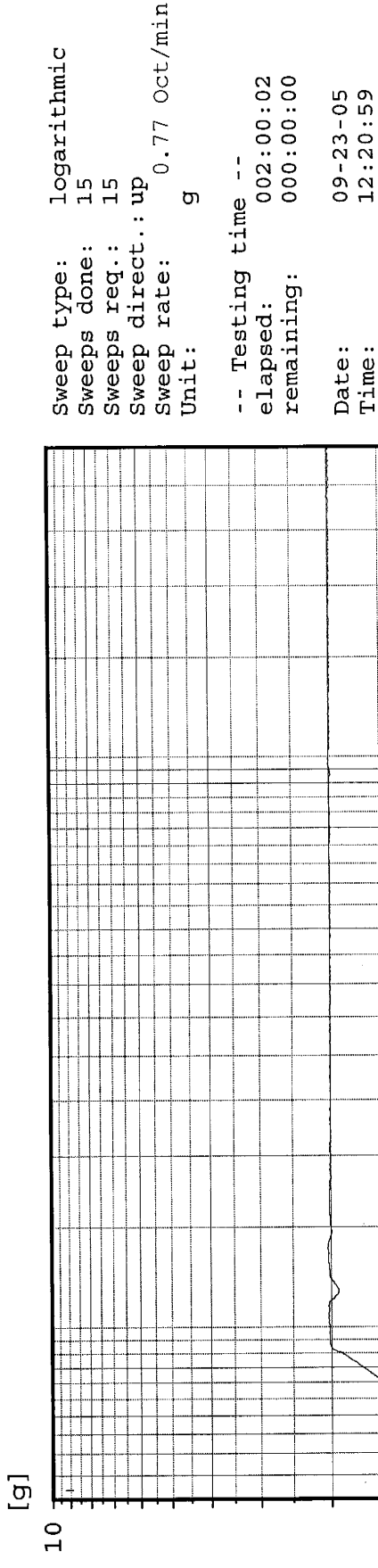


Level: 0 dB Control Peak: 1.995043 gn Full Level Time: 02:00:05 Sweep Type: Logarithmic
Frequency: 349.858490 Hz Demand Peak: 2.000000 gn Time Remaining: 00:00:00 Sweep Rate: 0.766 Oct/Min



Sine Control channel

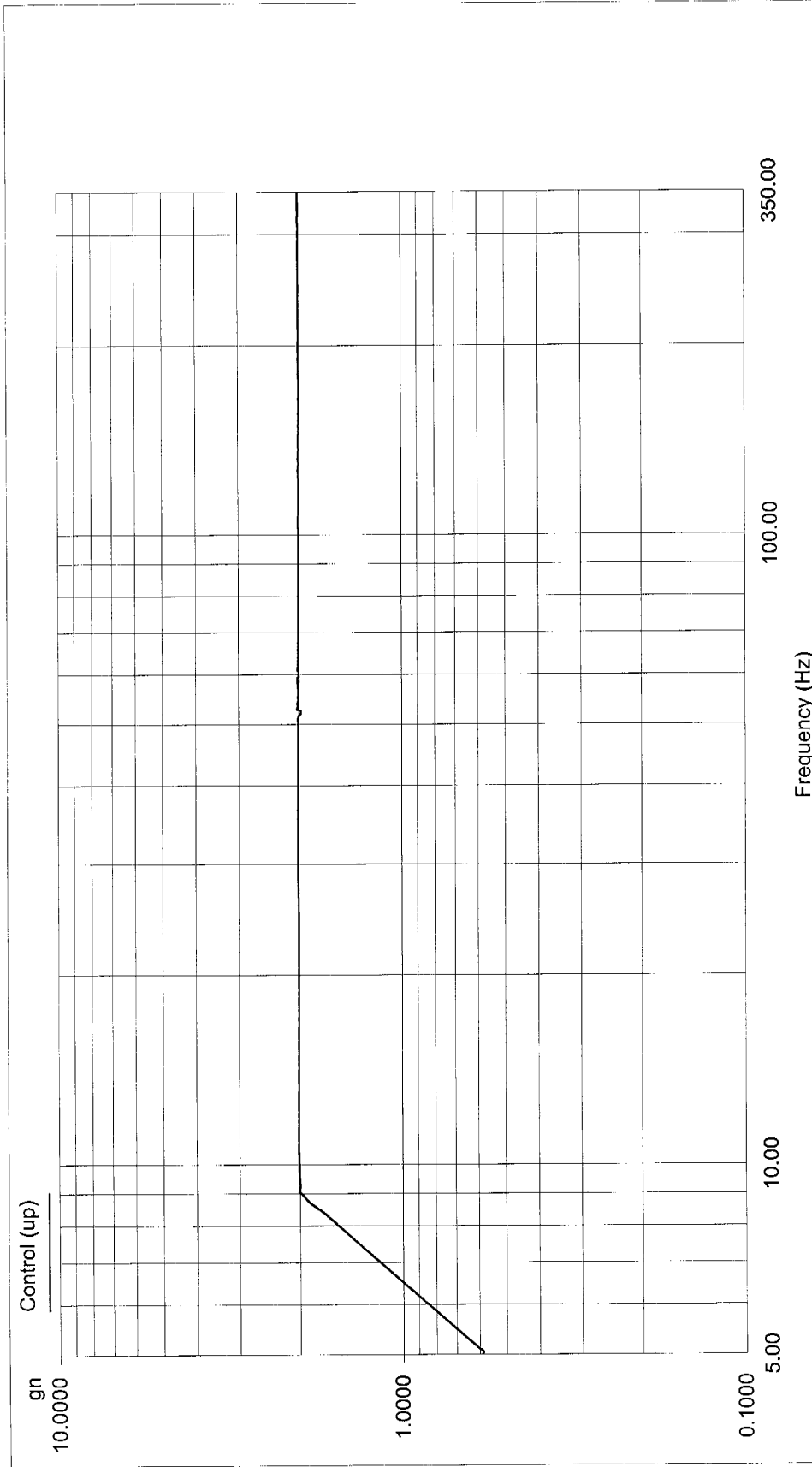
Pelican Products, Inc. JN-52554
Cases 0340



Top to Bottom Axis

Pelican Products, Inc JN-52554 Cases
Side to Side Axis # 0340
Project File Name: Sine.prj
Profile Name: Sine Cycling

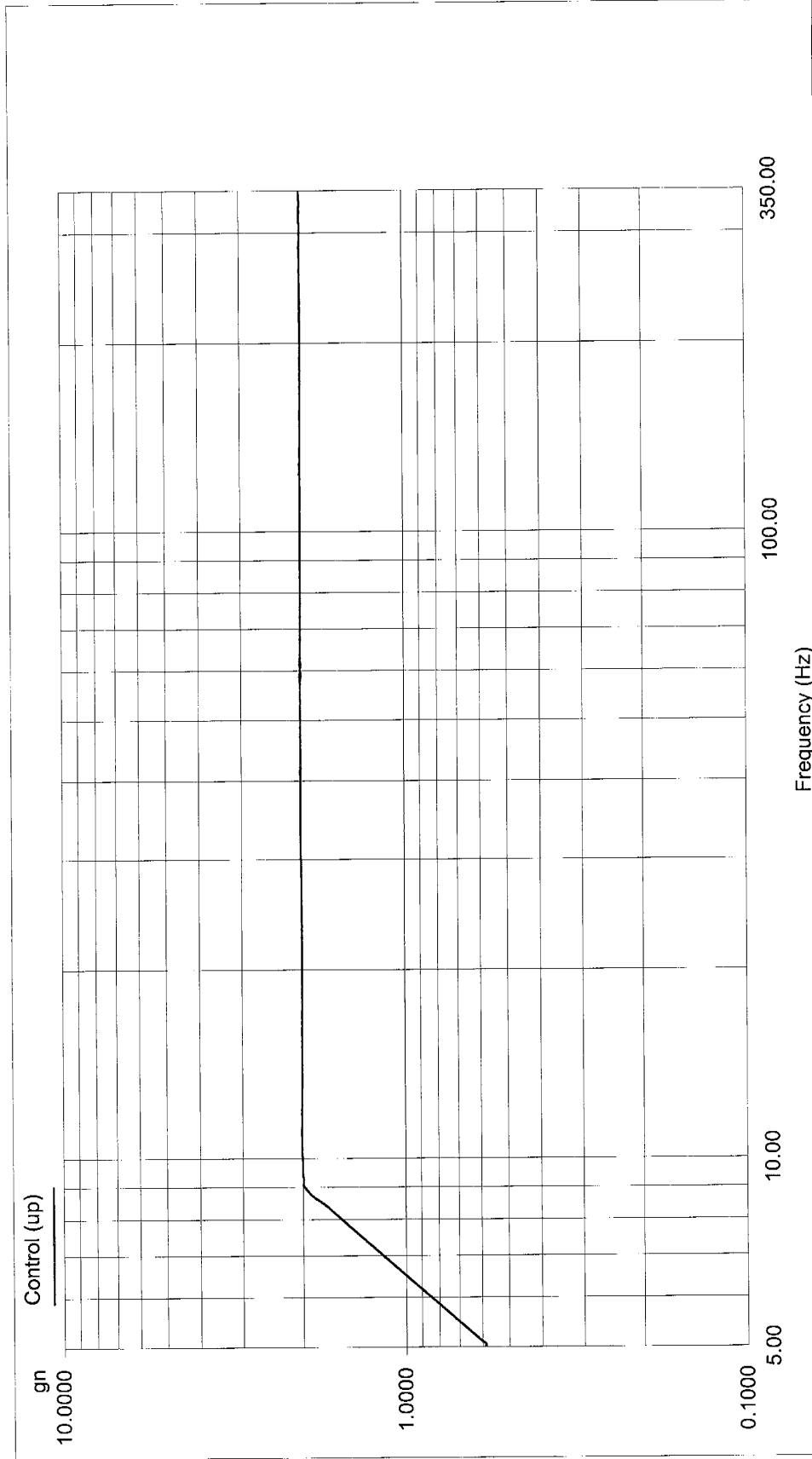
Test Type: Swept Sine Run Folder: .\RunFolder Sep 23, 2005 12-24-59



Level: 0 dB Control Peak: 2.000276 gn Full Level Time: 02:00:05 Sweep Type: Logarithmic
Frequency: 349.891479 Hz Demand Peak: 2.000000 gn Time Remaining: 00:00:00 Sweep Rate: 0.766 Oct/Min

Pelican Products, Inc JN-52554 Cases
Front to Back Axis # 0340
Project File Name: Sine.prj
Profile Name: Sine Cycling

Test Type: Swept Sine Run Folder: \RunFolder Sep 26, 2005 06-59-52



Level: 0 dB Control Peak: 1.996748 gn Full Level Time: 02:00:05 Sweep Type: Logarithmic
Frequency: 349.858490 Hz Demand Peak: 2.000000 gn Time Remaining: 00:00:00 Sweep Rate: 0.766 Oct/Min



TEST TITLE: Pre-Condition and Vibration K

CUSTOMER: Pelican Products Job No.: 52554 Date: 09-16-2005

Specimen: Cases Technician: I. Garcia

Part No.: See Recv. Insp. Serial No.: See Recv. Insp. Engineer: H. Pemberton

Handwritten: 9-16-05

EQUIPMENT	MANUFACTURER	MODEL #	RANGE	WYLE #	CALIBRATION		ACCY.
					LAST	DUE	
Accelerometer	Endevco	7704-50	0 - 1000 g's	W10443	6/14/2005	12/14/2005	5%
Accelerometer	Endevco	7704-50	0 - 1000 g's	W10446	6/12/2005	12/12/2005	5%
Accelerometer	Endevco	7704A-50	0 - 1000 g's	W11816	6/13/2005	12/13/2005	5%
Amplifier - Charge	Unholtz-Dickie	D22PMGJ 2	0 - 1000 g's	W09263	6/28/2005	12/28/2005	2%
Amplifier - Charge	Unholtz-Dickie	D22PMGJ 2	0 - 1000 g's	W09270	5/12/2005	11/12/2005	2% FS
Amplifier - Charge	Unholtz-Dickie	D22PMGJ 2	0 - 1000 g's	W09274	5/12/2005	11/12/2005	2%FS
Amplifier - Power	Unholtz-Dickie	SA180	180 KW	W13570	* System	Calibration *	Mfg. Spec.
Amplifier - Power	Satcom / Ling	DMA 4016	160 KW	W50711	* System	Calibration *	Mfg. Spec.
Control System - Vibration	Dactron Inc.	Laser Sys	8 Channel Master Unit	W13664	11/13/2004	11/13/2005	Mfg. Spec.
Control System - Vibration	Dactron Inc.	Laser Sys	8 Channel Slave Unit	W13665	11/13/2004	11/13/2005	Mfg. Spec.
DMM	AGILENT TECH.	34401A	MULTI	W12588	2/22/2005	2/22/2006	MFG SPEC

Where applicable, the listed test equipment has been calibrated using standards which are traceable to the National Institute of Science & Technology. Certificates and reports of all calibrations are retained in the Wyle Laboratories QA files and are available for inspection upon request. *Equipment identified as System Calibration are verified prior to use.



TEST TITLE: Pre-Condition and Vibration K

CUSTOMER: Pelican Products

Job No.: 52554

Date: 09-16-2005

Specimen: Cases

Technician: I. Garcia

Part No.: See Recv. Insp.

Serial No.: See Recv. Insp.

Engineer: H. Pemberton

10/14/05
9-16-05

EQUIPMENT	MANUFACTURER	MODEL #	RANGE	WYLE #	CALIBRATION		ACCY.
					LAST	DUE	
Exciter Electro-Dynamic	Ling	249	1" 5-2KHz 30K F/Lbs	W06702	* System	Calibration *	Mfg. Spec.
Exciter Electro-Dynamic	Ling	249	1" 5-2KHz 30K F/Lbs	W12493	* System	Calibration *	Mfg. Spec.
Exciter Electro-Dynamic	Ling	335B	1" 18K F/Lbs 5-3KHz	W91280	* System	Calibration *	Mfg. Spec.
Meter - DMM	Hewlett Packard	34401A	Multi	W13127	12/1/2004	12/1/2005	Mfg. Spec.
Oscilloscope	Leader	LBO514A	15 Mhz	W09622	* System	Calibration *	3%
Oscilloscope	Leader	LBO 514A	15 MHz	W10388	* System	Calibration *	3%
Recorder	Honeywell	DR450	Multi	W13470	7/18/2005	1/18/2006	Multi
Rh Probe	Vaisala	HMP135Y	0 - 100%	W11717	6/13/2005	12/13/2005	3%
Scale/Electronic	A & D	FG-60K	0 - 150 lbs	W12414	12/6/2004	12/6/2005	+/- 0.05 lbs
Vibration Controller - Arbitrary Source	M + P / Agilent	E1434A	2 Channels	W12441	4/8/2005	4/8/2007	Mfg. Spec.
Vibration Controller - Digitizer	M + P / Agilent	E1432A	16 Channels	W12440	4/8/2005	4/8/2007	Mfg. Spec.

Where applicable, the listed test equipment has been calibrated using standards which are traceable to the National Institute of Science & Technology. Certificates and reports of all calibrations are retained in the Wyle Laboratories QA files and are available for inspection upon request. *Equipment identified as System Calibration are verified prior to use.



TEST TITLE: Pre-Condition and Vibration K

CUSTOMER: Pelican Products Job No.: 52554 Date: 09-16-2005

Specimen: Cases Technician: I. Garcia

Part No.: See Recv. Insp. Serial No.: See Recv. Insp. Engineer: H. Pemberton

HW
9-16-05

EQUIPMENT	MANUFACTURER	MODEL #	RANGE	WYLE #	CALIBRATION		ACCY.
					LAST	DUE	
Vibration Monitor/Limiter	Unholtz-Dickie	AM-123	All	W13139	* System	Calibration *	2%
Vibration Monitor/Limiter	Unholtz-Dickie	AM-123	All	W13140	* System	Calibration *	2%

Where applicable, the listed test equipment has been calibrated using standards which are traceable to the National Institute of Science & Technology. Certificates and reports of all calibrations are retained in the Wyle Laboratories QA files and are available for inspection upon request. *Equipment identified as System Calibration are verified prior to use.



DATA SHEET

Test Title Low Temperature Test G

Customer	<u>Pelican Products, Inc.</u>	Job No.	<u>52554</u>
Specimen	<u>Cases</u>	Date Started	<u>9/26/2005</u>
Part No.	<u>See Recv. Insp.</u>	Serial No.	<u>See Recv. Insp.</u>
		Date Comp.	<u>9/27/2005</u>
Spec.	<u>DEF STAN 81-41 Part3/4</u>	Par.	<u>21</u>
		Photo	<u>Yes</u>
		Amb. Temp.	<u>Controlled</u>

Requirements:

Temperature: -20± 2 °C
 Duration: 16±0.5 hours after specimen has reached test temperature or 7 days ± 1 hour if time required for the complete package to attain the temperature cannot be assessed

Test Method:

Place the test specimen in a test chamber on the face on which it normally is expected to be transported or stored. Install a thermocouple on the test specimen. Decrease the chamber temperature to -20± 2 °C at a rate not to exceed 3 °C per minute. Maintain the chamber at -20± 2 °C for either:

- 1) 16±0.5 hours after specimen has reached test temperature or
- 2) 7 days ± 1 hour if time required for the complete package to attain the temperature cannot be assessed.

Return the chamber temperature to 20± 10 °C at a rate not to exceed 3 °C per minute.

Perform a visual examination. The package is considered to have failed if it is unserviceable or is affected in any way which would potentially cause the test specimen to become unserviceable.

Test Results:

The test was performed in accordance with the Test Method and Requirements stated above. No visible evidence of damage to the test specimens was observed upon completion of testing.

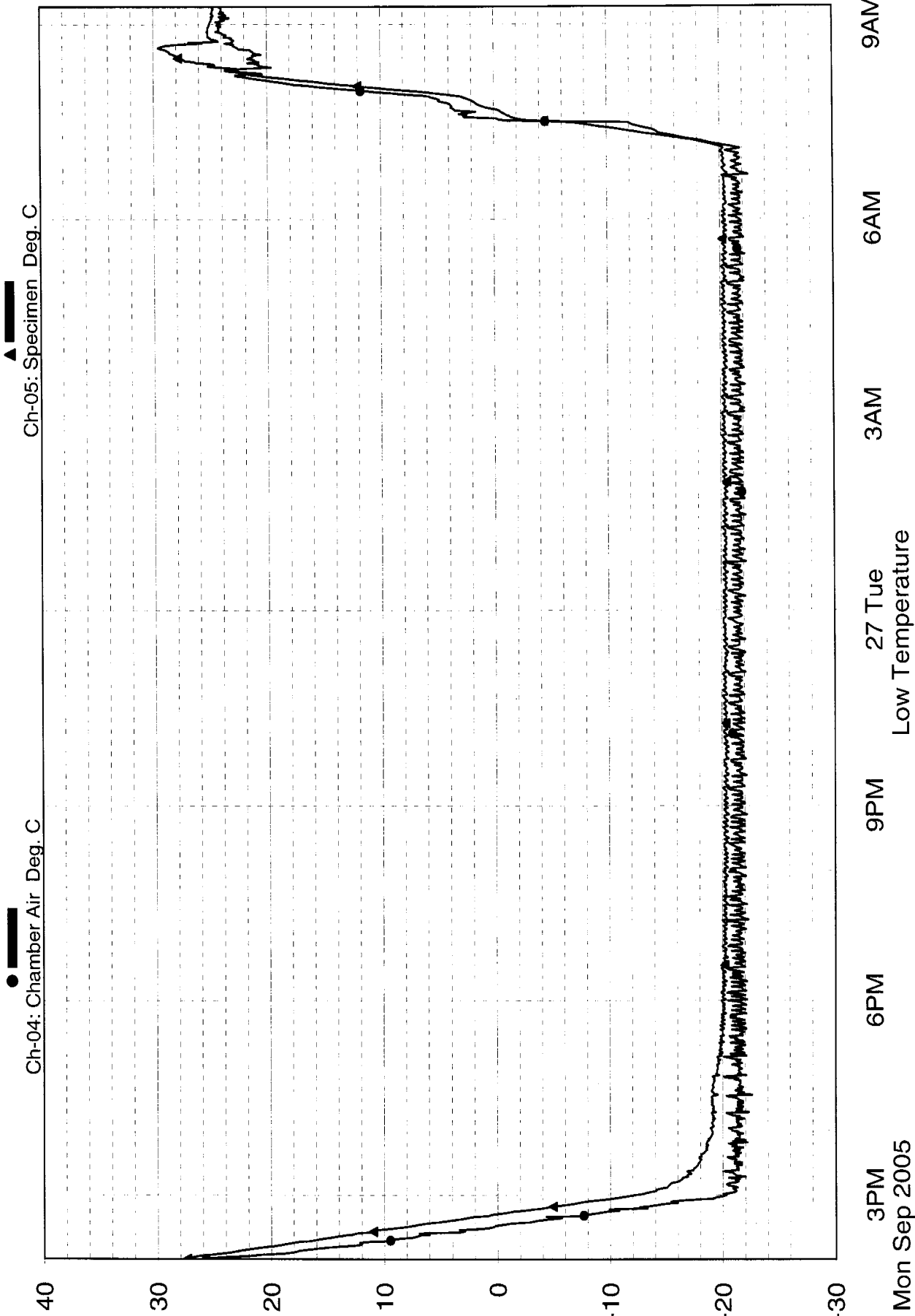


*Photograph 5
Low Temperature Test Setup*

wyle Laboratories
Pelican Products, Inc. J/ N-52554
Cases

09-27-2005 12:47:23 DL2k5

Files: D:\WyleDL\52554C100.prn - 52554C101.prn



26 Mon Sep 2005

3PM

6PM

9PM

27 Tue

3AM

6AM

9AM



TEST TITLE: Low Temperature

CUSTOMER: Pelican Products Job No.: 52554 Date: 09-23-2005

Specimen: Cases Technician: S. Paysen

Part No.: See Recv. Insp. Serial No.: See Recv. Insp. Engineer: H. Pemberton

Hand
9-23-05

EQUIPMENT	MANUFACTURER	MODEL #	RANGE	WYLE #	CALIBRATION		ACCY.
					LAST	DUE	
Chamber - Environmental	Thermodynamics	Chamber 2 (MN-8110)	-85°F to 176°F & Rh	W13692	* System	Calibration *	Mfg. Spec.
Computer	Wyle	Clone	Celeron 2.4Ghz	W14899	* System	Calibration *	Mfg. Spec.
Controller - Temperature	Watlow / Omega	System #4 922 / CN9000	-100°F to 240°F	W50705	* System	Calibration *	Mfg. Spec.
Multimeter/DAS	Keithley	2700	10VDC & Type T TC's	W13690	12/3/2004	12/3/2005	±2%
Multiplexer Module	Keithley	7700	20 Channels Volts or TC's	W14903	12/3/2004	12/3/2005	Mfg. Spec.

Where applicable, the listed test equipment has been calibrated using standards which are traceable to the National Institute of Science & Technology. Certificates and reports of all calibrations are retained in the Wyle Laboratories QA files and are available for inspection upon request. *Equipment identified as System Calibration are verified prior to use.



DATA SHEET

Test Title Pre-conditioning & Dry Heat Test C

Customer Pelican Products, Inc. Job No. 52554
 Specimen Cases Date Started 09/27/05
 Part No. See Recv. Insp. Serial No. See Recv. Insp. Date Comp. 9/29/2005
 Spec. DEF STAN 81-41 Part3/4 Par. 14 and 17 Photo Yes Amb. Temp. Controlled

Requirements:

Pre-Conditioning:

Temperature: 25± 10 °C
 Humidity: 45% to 75%
 Duration: 16 hours or until specimen has reached temperature stabilization (whichever is the shortest period)

Dry Heat Test:

Temperature: 55± 2 °C
 Humidity: Not to exceed 75%
 Duration: 48±1 hours

Test Method:

Place the test specimen in a test chamber on the face on which it normally is expected to be transported or stored. Install a thermocouple on the test specimen. Maintain the chamber at 25± 10 °C and 45% to 75% relative humidity for 16 hours or until the specimen has reached temperature stabilization (i.e. test specimen temperature stable with chamber temperature).

Increase the chamber temperature to 55± 2 °C at a rate not to exceed 3 °C per minute. Humidity is not to exceed 75%. Maintain the chamber at these conditions for 48±1 hours.

Return the chamber temperature to 20± 10 °C at a rate not to exceed 3 °C per minute.

Perform a visual examination. The package is considered to have failed if it is unserviceable or is affected in any way which would potentially cause the test specimen to become unserviceable.

(Continue)

Tested By Shamir 10/7/05
 Engineer W. B. Smith 10-7-05



DATA SHEET

Test Title Pre-conditioning and Dry Heat Test C Date 9/27/2005
Customer Pelican Products, Inc. Job No. 52554
Specimen Cases Technician Shaun Paysen *SP 10-7-05*
Part No. See Recv. Insp. Serial No. See Recv. Insp. Engineer H. Pemberton *Hvap 10-7-05*

(Continued)

Test Results:

The test was performed in accordance with the Test Method and Requirements stated above. No visible evidence of damage to the test specimens was observed upon completion of testing.



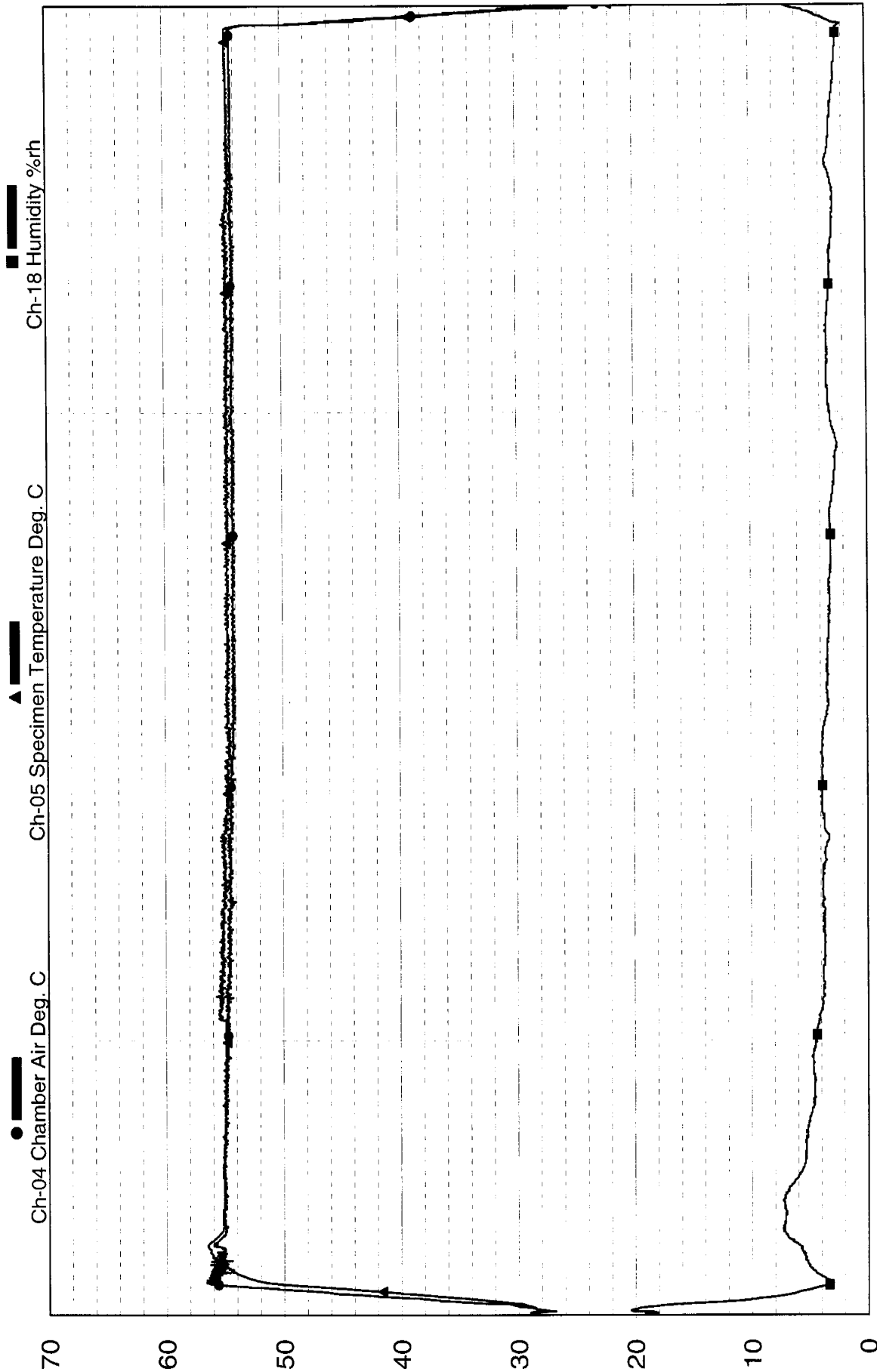
*Photograph 6
Dry Heat Test Setup*

Pelican Products, Inc. J/ N-52554
Cases



Files: D:\WyleDL\52554C102.prn - 52554C104.prn

10-07-2005 13:01:35 DL2K5



29 Thu

Dry Heat

28 Wed

Sep 2005



TEST TITLE: High Temperature

CUSTOMER: Pelican Products Job No.: 52554 Date: 09-27-2005

Specimen: Cases Technician: S. Paysen

Part No.: See Recv. Insp. Serial No.: See Recv. Insp. Engineer: H. Pemberton *Handwritten: 9-27-05*

EQUIPMENT	MANUFACTURER	MODEL #	RANGE	WYLE #	CALIBRATION		ACCY.
					LAST	DUE	
Chamber - Environmental	Thermodynamics	Chamber 2 (MN-8110)	-85°F to 176°F & Rh	W13692	* System	Calibration *	Mfg. Spec.
Computer	Wyle	Clone	Celeron 2.4Ghz	W14899	* System	Calibration *	Mfg. Spec.
Controller - Temperature	Watlow / Omega	System #4 922 / CN9000	-100°F to 240°F	W50705	* System	Calibration *	Mfg. Spec.
Multimeter/DAS	Keithley	2700	10VDC & Type T TC's	W13690	12/3/2004	12/3/2005	±2%
Multiplexer Module	Keithley	7700	20 Channels Volts or TC's	W14903	12/3/2004	12/3/2005	Mfg. Spec.
Rh Probe	Rotronic	HT255R	0 - 100% Rh	W13652	7/22/2005	1/22/2006	3% Rh

Where applicable, the listed test equipment has been calibrated using standards which are traceable to the National Institute of Science & Technology. Certificates and reports of all calibrations are retained in the Wyle Laboratories QA files and are available for inspection upon request. *Equipment identified as System Calibration are verified prior to use.



DATA SHEET

Test Title Pre-conditioning & Impact Test E

Customer Pelican Products, Inc. Job No. 52554
 Specimen Cases Date Started 9/30/2005
 Part No. See Recv. Insp. Serial No. See Recv. Insp. Date Comp. 10/1/2005
 Spec. DEF STAN 81-41 Part3/4 Par. 14 and 19 Photo Yes Amb. Temp. Controlled

Requirements:

Pre-Conditioning:

Temperature: $25 \pm 10 \text{ }^\circ\text{C}$
 Humidity: 45% to 75%
 Duration: 16 hours or until specimen has reached temperature stabilization (whichever is the shortest period)

Test Method:

Weigh the test specimen.

Place the test specimen in a test chamber on the face on which it normally is expected to be transported or stored. Install a thermocouple on the test specimen. Maintain the chamber at $25 \pm 10 \text{ }^\circ\text{C}$ and 45% to 75% relative humidity for 16 hours or until the specimen has reached temperature stabilization (i.e. test specimen temperature stable with chamber temperature).

After pre-conditioning:

Immediately after removal from the conditioning chamber perform the following vertical impact test. Drop configurations, as applicable, shall be designated top (1), right side (2), base (3), left side (4), near end (5), and far end (6).

For each test specimen whose weight is up to and including 66 pounds (0-30 kg), drop each test specimen once onto its designated base and all perpendicular and parallel faces onto a non-deformable surface at a height of 39.4 ± 0.2 " (1000 ± 5 mm).

Perform a visual examination. Any malfunction of the fittings and hardware (seals, closures, hinges, handles, etc.) and any damage to or spillage of the package contents shall constitute a failure of the specimen. Minor visible deterioration of the test specimen shall be noted but does not necessarily constitute failure of the test specimen.

(Continued)



DATA SHEET

Test Title Pre-conditioning & Impact Test E **Date** 9/30/2005
Customer Pelican Products, Inc. **Job No.** 52554
Specimen Cases **Technician** S. Paysen *SP 10-11-05*
Part No. See Recv. Insp. **Serial No.** See Recv. Insp. **Engineer** H. Pemberton *HP 10-11-05*

(Continued)

Test Results:

The test was performed in accordance with the Test Method and Requirements stated above. No visible evidence of damage to the test specimens was observed upon completion of testing. However, as delineated on in the attached data sheets, the following results were observed:

Specimen	Results
340	Label tag fell off during base drop. All clamps open during base drop however lid did not open.
350	Label tag fell off during near end drop.
370	No anomalies observed.
1120	No anomalies observed.
1150	No anomalies observed.
1200	No anomalies observed.
1300	Some clamps open during top drop however lid did not open.
1400	Some clamps open during base and top drops however lid did not open.
1430	No anomalies observed.
1450	All clamps open during top drop however lid did not open.
1490	Some clamps open during near end drop however lid did not open.
1500	No anomalies observed.
1510	No anomalies observed.
1520	Label tag fell off during near end drop.
1550	No anomalies observed.
1560	Some clamps open during near end drop however lid did not open.
1600	No anomalies observed.
1610	Some clamps open during top drop however lid did not open.
1620	Label tag fell off during base drop.
1650	Some clamps open during base drop however lid did not open.
1660	Label tag fell off during base drop. Some clamps open during top drop however lid did not open.
1700	Some clamps open during base, near end, and back drop however lid did not open. Some clamps open during top drop and right corner did open.
1720	Some clamps open during base, near end, right side, and left side drops however lid did not open.
1750	Some clamps open during base drop however lid did not open.



DATA SHEET

Test Title Pre-conditioning & Impact Test E **Date** 9/29/2005
Customer Pelican Products, Inc. **Job No.** 52554
Specimen Cases **Technician** S. Paysen ^{SP} 10-11-05
Part No. See Recv. Insp. **Serial No.** See Recv. Insp. **Engineer** H. Pemberton ^{HP} 10-11-05

DATE	TIME	CONFIGURATION	HEIGHT (mm)	COMMENTS
				Impact (Vertical) Test
				Case 370
09-30	1528	Base	1000	No Malfunction.
	1529	Near End	"	No Malfunction.
	1529	Far End	"	No Malfunction.
	1530	Right Side	"	No Malfunction.
	1531	Left Side	"	No Malfunction.
	1531	Top	"	No Malfunction.
				Case 350
09-30	1533	Base	1000	No Malfunction.
	1534	Near End	"	Label Tag Fell Off.
	1535	Far End	"	No Malfunction.
	1536	Right Side	"	No Malfunction.
	1537	Left Side	"	No Malfunction.
	1538	Top	"	No Malfunction.
				Case 1660
09-30	1541	Base	1000	Label Tag Fell Off.
	1541	Near End	"	No Malfunction.
	1542	Far End	"	No Malfunction.
	1542	Right Side	"	No Malfunction.
	1543	Left Side	"	No Malfunction.
	1543	Top	"	2 of 7 clamps open, lid not open
				Case 1650
09-30	1545	Base	1000	4 of 7 clamps open, lid not open
	1546	Near End	"	No Malfunction.
	1546	Far End	"	No Malfunction.
	1547	Right Side	"	No Malfunction.
	1547	Left Side	"	No Malfunction.
	1548	Top	"	No Malfunction.

Drop-ds



DATA SHEET

Test Title Pre-conditioning & Impact Test E **Date** 9/29/2005
Customer Pelican Products, Inc. **Job No.** 52554
Specimen Cases **Technician** S. Paysen *SP 10-11-05*
Part No. See Recv. Insp. **Serial No.** See Recv. Insp. **Engineer** H. Pemberton *HP 10-11-05*

DATE	TIME	CONFIGURATION	HEIGHT	COMMENTS
			(mm)	Impact (Vertical) Test
				Case 340
09-30	1601	Base	1000	Label Tag Off.All 6 Clamps Open.
	1602	Near End	"	No Malfunction.
	1603	Far End	"	No Malfunction.
	1603	Right Side	"	No Malfunction.
	1604	Left Side	"	No Malfunction.
	1604	Top	"	No Malfunction.
				Case 1620
09-30	1607	Base	1000	Label Tag Fell Off.
	1607	Near End	"	No Malfunction.
	1608	Far End	"	No Malfunction.
	1608	Right Side	"	No Malfunction.
	1609	Left Side	"	No Malfunction.
	1609	Top	"	No Malfunction.
				Case 1610
09-30	0611	Base	1000	No Malfunction.
	0612	Near End	"	No Malfunction.
	0612	Back	"	No Malfunction.
	0613	Right Side	"	No Malfunction.
	0613	Left Side	"	No Malfunction.
	0614	Top	"	3 of 4 clamps open, lid not open
				Case 1560
09-30	0615	Base	1000	No Malfunction.
	0615	Near End	"	1 of 2 clamps open, lid not open
	0616	Far End	"	No Malfunction.
	0616	Right Side	"	No Malfunction.
	0617	Left Side	"	No Malfunction.
	0618	Top	"	No Malfunction.

Drop-ds



DATA SHEET

Test Title Pre-conditioning & Impact Test E **Date** 9/30/2005
Customer Pelican Products, Inc. **Job No.** 52554
Specimen Cases **Technician** S. Paysen ^{SP} 10-11-05
Part No. See Recv. Insp. **Serial No.** See Recv. Insp. **Engineer** H. Pemberton ^{HP} 10-11-05

DATE	TIME	CONFIGURATION	HEIGHT	COMMENTS
			(mm)	Impact (Vertical) Test
				Case 1500
09-30	1619	Base	1000	No Malfunction.
	1619	Near End	"	No Malfunction.
	1620	Far End	"	No Malfunction.
	1620	Right Side	"	No Malfunction.
	1621	Left Side	"	No Malfunction.
	1621	Top	"	No Malfunction.
				Case 1520
09-30	1622	Base	1000	No Malfunction.
	1622	Near End	"	Label Tag Fell Off.
	1623	Far End	"	No Malfunction.
	1623	Right Side	"	No Malfunction.
	1624	Left Side	"	No Malfunction.
	1624	Top	"	No Malfunction.
				Case 1600
10-01	0835	Base	1000	No Malfunction.
	0836	Near End	"	No Malfunction.
	0836	Back	"	No Malfunction.
	0836	Right Side	"	No Malfunction.
	0837	Left Side	"	No Malfunction.
	0837	Top	"	No Malfunction.
				Case 1510
10-01	0838	Base	1000	No Malfunction.
	0838	Near End	"	No Malfunction.
	0839	Far End	"	No Malfunction.
	0840	Right Side	"	No Malfunction.
	0840	Left Side	"	No Malfunction.
	0840	Top	"	No Malfunction.

Drop-ds



DATA SHEET

Test Title Pre-conditioning & Impact Test E **Date** 10/1/2005
Customer Pelican Products, Inc. **Job No.** 52554
Specimen Cases **Technician** S. Paysen ^{SP} 10-11-05
Part No. See Recv. Insp. **Serial No.** See Recv. Insp. **Engineer** H. Pemberton ^{HP} 10-11-05

DATE	TIME	CONFIGURATION	HEIGHT	COMMENTS
			(mm)	Impact (Vertical) Test
				Case 1750
10-01	0841	Base	1000	1 of 4 clamps open, lid not open
	0842	Near End	"	No Malfunction.
	0842	Far End	"	No Malfunction.
	0843	Right Side	"	No Malfunction.
	0843	Left Side	"	No Malfunction.
	0844	Top	"	No Malfunction.
				Case 1720
10-01	0845	Base	1000	2 of 4 clamps open, lid not open
	0846	Near End	"	1 of 4 clamps open, lid not open
	0847	Far End	"	No Malfunction.
	0847	Right Side	"	2 of 4 clamps open, lid not open
	0848	Left Side	"	2 of 4 clamps open, lid not open
	0848	Top	"	No Malfunction.
				Case 1700
10-01	0849	Base	1000	2 of 4 clamps open, lid not open
	0850	Near End	"	2 of 4 clamps open, lid not open
	0850	Back	"	1 of 4 clamps open, lid not open
	0851	Right Side	"	No Malfunction.
	0851	Left Side	"	No Malfunction.
	0852	Top	"	2 of 4 clamps open, rt corner open
				Case 1430
10-01	0853	Base	1000	No Malfunction.
	0854	Near End	"	No Malfunction.
	0854	Far End	"	No Malfunction.
	0855	Right Side	"	No Malfunction.
	0855	Left Side	"	No Malfunction.
	0856	Top	"	No Malfunction.

Drop-ds



DATA SHEET

Test Title Pre-conditioning & Impact Test E **Date** 10/1/2005
Customer Pelican Products, Inc. **Job No.** 52554
Specimen Cases **Technician** S. Paysen *SP 10-11-05*
Part No. See Recv. Insp. **Serial No.** See Recv. Insp. **Engineer** H. Pemberton *HP 10-11-05*

DATE	TIME	CONFIGURATION	HEIGHT (mm)	COMMENTS
				Impact (Vertical) Test
				Case 1490
10-01	0856	Base	1000	No Malfunction.
	0856	Near End	"	1 of 2 clamps open, lid not open
	0857	Far End	"	No Malfunction.
	0857	Right Side	"	No Malfunction.
	0858	Left Side	"	No Malfunction.
	0858	Top	"	No Malfunction.
				Case 1450
10-01	0900	Base	1000	No Malfunction.
	0900	Near End	"	No Malfunction.
	0901	Far End	"	No Malfunction.
	0901	Right Side	"	No Malfunction.
	0902	Left Side	"	No Malfunction.
	0902	Top	"	2 of 2 clamps open, lid not open
				Case 1400
10-01	0907	Base	1000	1 of 2 clamps open, lid not open
	0907	Near End	"	No Malfunction.
	0908	Back	"	No Malfunction.
	0908	Right Side	"	No Malfunction.
	0909	Left Side	"	No Malfunction.
	0909	Top	"	1 of 2 clamps open, lid not open
				Case 1300
10-01	0910	Base	1000	No Malfunction.
	0910	Near End	"	No Malfunction.
	0911	Far End	"	No Malfunction.
	0911	Right Side	"	No Malfunction.
	0912	Left Side	"	No Malfunction.
	0912	Top	"	1 of 2 clamps open, lid not open

Drop-ds



DATA SHEET

Test Title Pre-conditioning & Impact Test E **Date** 10/1/2005
Customer Pelican Products, Inc. **Job No.** 52554
Specimen Cases **Technician** S. Paysen ^{SP} 10-11-05
Part No. See Recv. Insp. **Serial No.** See Recv. Insp. **Engineer** H. Pemberton ^{HP} 10-11-05

DATE	TIME	CONFIGURATION	HEIGHT	COMMENTS
			(mm)	Impact (Vertical) Test
				Case 1200
10-01	0913	Base	1000	No Malfunction.
	0913	Near End	"	No Malfunction.
	0914	Far End	"	No Malfunction.
	0914	Right Side	"	No Malfunction.
	0915	Left Side	"	No Malfunction.
	0915	Top	"	No Malfunction.
				Case 1150
10-01	0915	Base	1000	No Malfunction.
	0916	Near End	"	No Malfunction.
	0916	Far End	"	No Malfunction.
	0917	Right Side	"	No Malfunction.
	0917	Left Side	"	No Malfunction.
	0917	Top	"	No Malfunction.
				Case 1120
10-01	0918	Base	1000	No Malfunction.
	0918	Near End	"	No Malfunction.
	0919	Far End	"	No Malfunction.
	0919	Right Side	"	No Malfunction.
	0920	Left Side	"	No Malfunction.
	0920	Top	"	No Malfunction.
				Case 1550
10-01	0921	Base	1000	No Malfunction.
	0921	Near End	"	No Malfunction.
	0922	Far End	"	No Malfunction.
	0922	Right Side	"	No Malfunction.
	0923	Left Side	"	No Malfunction.
	0923	Top	"	2 of 2 clamps open, lid not open

Drop-ds



*Photograph 7
Typical Impact Test Setup*



*Photograph 8
Typical Label Falling Off*



TEST TITLE: Pre-Condition and Impact Test E

CUSTOMER: Pelican Products

Job No.: 52554

Date: 09-30-2005

Specimen: Cases

Technician: S. Paysen

Part No.: See Recv. Insp.

Serial No.: See Recv. Insp.

Engineer: H. Pemberton

Engineer: H. Pemberton

HMP
9-30-05

EQUIPMENT	MANUFACTURER	MODEL #	RANGE	WYLE #	CALIBRATION		ACCY.
					LAST	DUE	
Recorder	Honeywell	DR450	Multi	W13470	7/18/2005	1/18/2006	Multi
Rh Probe	Vaisala	HMP135Y	0 - 100%	W11717	6/13/2005	12/13/2005	3%
Scale/Electronic	A & D	FG-60K	0 - 150 lbs	W12414	12/6/2004	12/6/2005	+/- 0.05 lbs
Tape Measure	Keson Industries	MC-18-100	100 ft.	W12590	5/17/2005	5/17/2006	Mfg. Spec.

Where applicable, the listed test equipment has been calibrated using standards which are traceable to the National Institute of Science & Technology. Certificates and reports of all calibrations are retained in the Wyle Laboratories QA files and are available for inspection upon request. *Equipment identified as System Calibration are verified prior to use.