



SHIPPING MEMORANDUM

NUMBER
122327

SHIP TO
STANFORD LINEAR ACCELERATOR CENTER
2575 SAND HILL ROAD
MENLO PARK, CALIFORNIA 94025

DATE
5/25/05

VIA
U.S. MAIL

ATTN: DAVID TARKINGTON

SHIP FROM
~~XXXXXXXXXXXX~~
~~XXXXXXXXXXXX~~
~~XXXXXXXXXXXX~~
5452 BETSY ROSS DRIVE
SANTA CLARA, CA 95054
408/764-5500

CUSTOMER ORDER NO. 56030 JOB NUMBER 49995.52000 PARTIAL COMPLETE OUR PO NO

ITEM NO	QUANTITY	DESCRIPTION
1	1 SET	<p>ORIGINAL TEST DATA ON AS FOLLOWS:</p> <p>2 EACH TEM & TPS (SEE INITIAL VISUAL)</p> <p>POST RANDOM AND SINE VIBRATION TESTING PER CUSTOMER INSTRUCTION</p>

CERTIFICATE OF CONFORMANCE

This is to certify that test data and/or certifications proving conformance to purchase order number N/A are on file and available for examination at WYLE LABORATORIES, under Job number N/A.

Quality Assurance Signature

SHIPMENT AUTHORIZED BY:

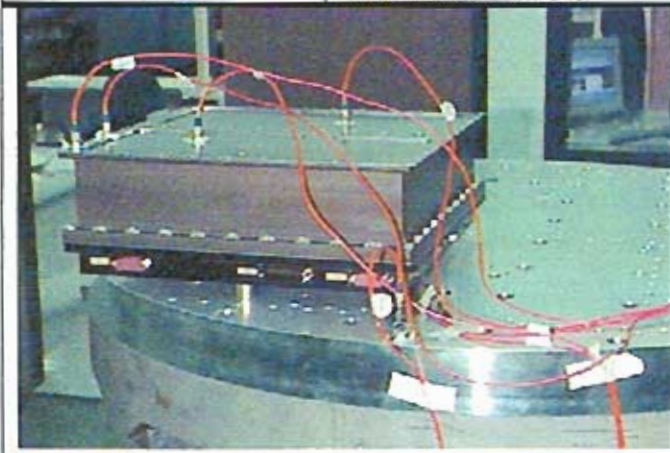
RECEIVED BY: **Mail** DATE: **6/10/05** NAME: **JACK O. EAGAN**

TEST DATA

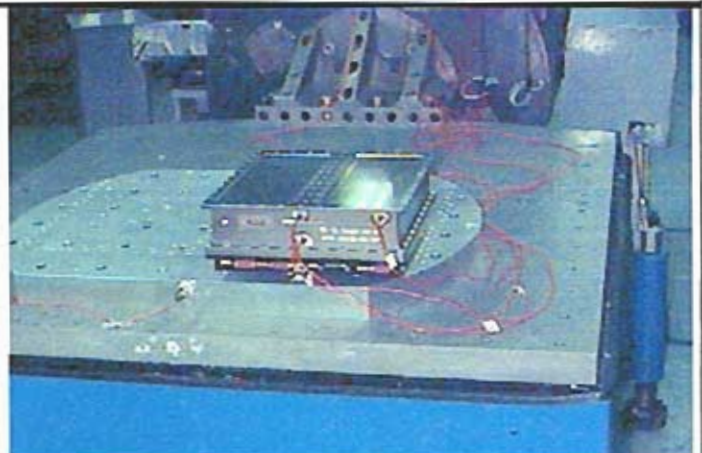
DATE STARTED 05-24-05		CUSTOMER Stanford Linear Accelerator			TECHNICIAN (SIGNATURE) <i>D. Wiltschko</i> WSG T-21
DATE COMPLETED 05-24-05		SPECIMEN DESCRIPTION TEM & TPS			ENGINEER (SIGNATURE) <i>Pine Chesney</i> WSG U-02
TEMPERATURE 73°F		TYPE OF TEST VISUAL EXAMINATION - Initial			ENGINEER <i>Pine Chesney</i>
HUMIDITY 36% R.H.		MANUFACTURER Stanford Linear Accelerator			JOB NUMBER 49995.52000
SPECIMEN NUMBER 1 & 2		TEST SPECIFICATION SOP 6-08, REV. L			
SPECIMEN NUMBER	SERIAL NUMBER	PART OR MODEL NUMBER	LOT NUMBER	DATE CODE	REMARKS
1	GLAT1836	-	-	-	
2	GLAT1831	-	-	-	
					Note: No discrepancies noted.

TEST DATA

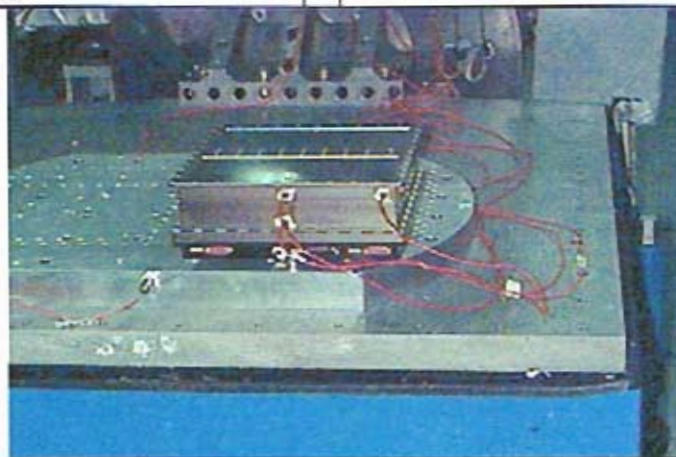
DATE STARTED 05-24-05	CUSTOMER Stanford Linear Accelerator	TECHNICIAN (SIGNATURE) <i>D. Wiltshire</i> [Stamp: WISC I-21]
DATE COMPLETED 05-24-05	SPECIMEN DESCRIPTION TEM & TPS { See Initial Visual }	ENGINEER (SIGNATURE) <i>Sime Chusey</i> [Stamp: WISC Q-02]
TEMPERATURE 73°F	TYPE OF TEST SET-UP - Detail	ENGINEER <i>Sime Chusey</i>
HUMIDITY 36% R.H.	MANUFACTURER Stanford Linear Accelerator	JOB NUMBER 49995.52000
SPECIMEN NUMBER 1 - 2	TEST SPECIFICATION See Vibration Data	



Z - Axis



X - Axis



Y - Axis



TEST DATA

DATE STARTED 05-24-05		CUSTOMER Stanford Linear Accelerator			TECHNICIAN (SIGNATURE) <i>D. Wittahin</i>	
DATE COMPLETED 05-24-05		SPECIMEN DESCRIPTION TEM / TPS { See Initial Visual }			ENGINEER (SIGNATURE) <i>Sime Chuxey</i>	
TEMPERATURE 74°F		TYPE OF TEST VIBRATION - Sine and Random - Non-Op.			ENGINEER <i>Sime Chuxey</i>	
HUMIDITY 35% R.H.		MANUFACTURER Stanford Linear Accelerator			JOB NUMBER 49995.52000	
SPECIMEN NUMBER 1 & 2		TEST SPECIFICATION SLAC LAT-TD-05649 & Customer Instruction				
SPECIMEN NUMBER	DATE	AXIS	TIME START	TIME STOP	VIBRATION FREQUENCIES AND LEVELS	REMARKS
-	05-24-05	X	1045	+0:01:00	Sine - Search 20 - 2000Hz @ 0.15g 2 octaves / minute 1 sweep up / axis	Random Accept.; Fixture Only
-		X	1052	+0:04:18		Sine Search; Fixture Only
1		X	1122	+0:04:18	Random - Accept. 20Hz @ 0.01 G ² /Hz 80 - 500Hz @ 0.04 G ² /Hz 2000Hz @ 0.01 G ² /Hz 6.79 Grms overall 1 minute / axis	Sine Search
		X	1137	+0:01:00		Random Accept.
		X	1144	+0:04:18		Sine Search
		Y	1214	+0:04:18		Sine Search
		Y	1226	+0:01:00		Random Accept.
1		Y	1231	+0:04:18		Sine Search
2		X	1412	+0:04:18	Sine Search	
		X	1423	+0:01:00	Random Accept.	
		X	1429	+0:04:18	Sine Search	
		X	1450	+0:04:18	Sine Search	
		X	1501	+0:01:00	Random Accept.	
2	05-24-05	X	1507	+0:04:18	Sine Search	

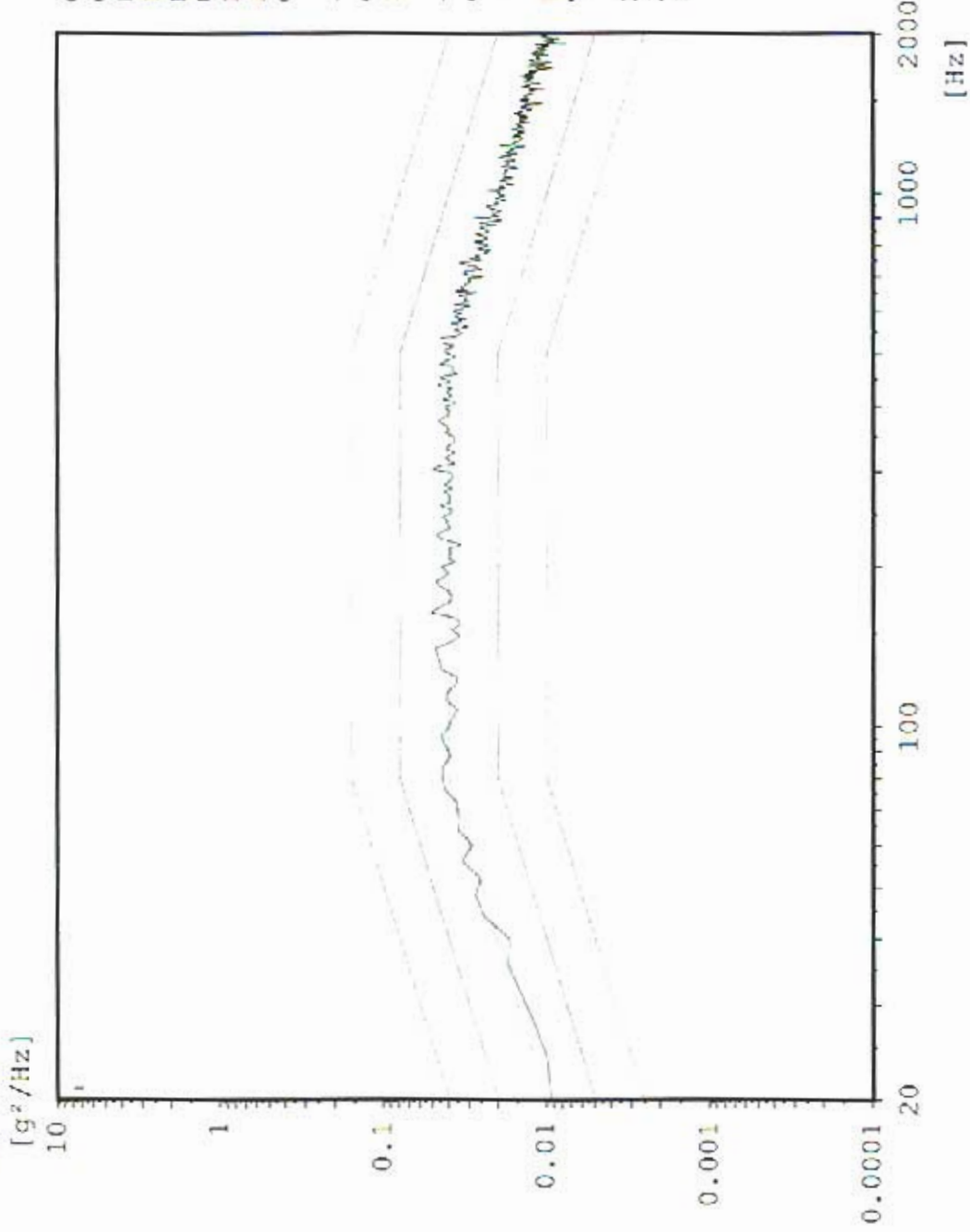


TEST DATA

DATE STARTED 05-24-05	CUSTOMER Stanford Linear Accelerator				TECHNICIAN (SIGNATURE) <i>D. Wiltshire</i> T-21	
DATE COMPLETED 05-24-05	SPECIMEN DESCRIPTION TEM / TPS (See Initial Visual)				ENGINEER (SIGNATURE) <i>Yvonne O'Connell</i>	
TEMPERATURE 74°F	TYPE OF TEST VIBRATION - Sine and Random - Non-Op.				ENGINEER <i>Yvonne O'Connell</i>	
HUMIDITY 35% R.H.	MANUFACTURER Stanford Linear Accelerator				JOB NUMBER 49995.52000	
SPECIMEN NUMBER 1 & 2	TEST SPECIFICATION SLAC LAT-TD-05649 & Customer Instruction					
SPECIMEN NUMBER	DATE	AXIS	TIME START	TIME STOP	VIBRATION FREQUENCIES AND LEVELS	REMARKS
2	05-24-05	Z	1603	+0:04:18	Sine - Search 20 - 2000Hz @ 0.15g 2 octaves / minute 1 sweep up / axis	Sine Search
			1617	+0:01:01		Random Accept.
2			1624	+0:04:18		Sine Search
1			1651	+0:04:18	Random - Accept. 20Hz @ 0.01 G ² /Hz 80 - 500Hz @ 0.04 G ² /Hz 2000Hz @ 0.01 G ² /Hz	Sine Search
			1705	+0:01:01		Random Accept.
1	05-24-05	Z	1713	+0:04:18	6.79 Grms overall 1 minute / axis	Sine Search Note: No external physical damage noted due to this test.

CX1 X-Axis Control

Random
Stanford Linear Accelerator
J/N 49995.52000
TEM & TPS



Chan.no: 1
Chan.type: C
DOF: 126
Level: 0.0 dB
Resolution: 4 Hz
Unit: g^2/Hz
RMS (act.): 6.818 g
RMS (req.): 6.787 g
Contr.strat.: Closed loop

-- Time on act. level --
elapsed: 000:01:00
remaining: 000:00:00

-- Time total --
elapsed: 000:02:53
remaining: 000:00:00

Date: 05-24-05
Time: 10:46:47

X - Axis
Acceptance Unit
Fixture Only

Sine CX1 X-Axis Control

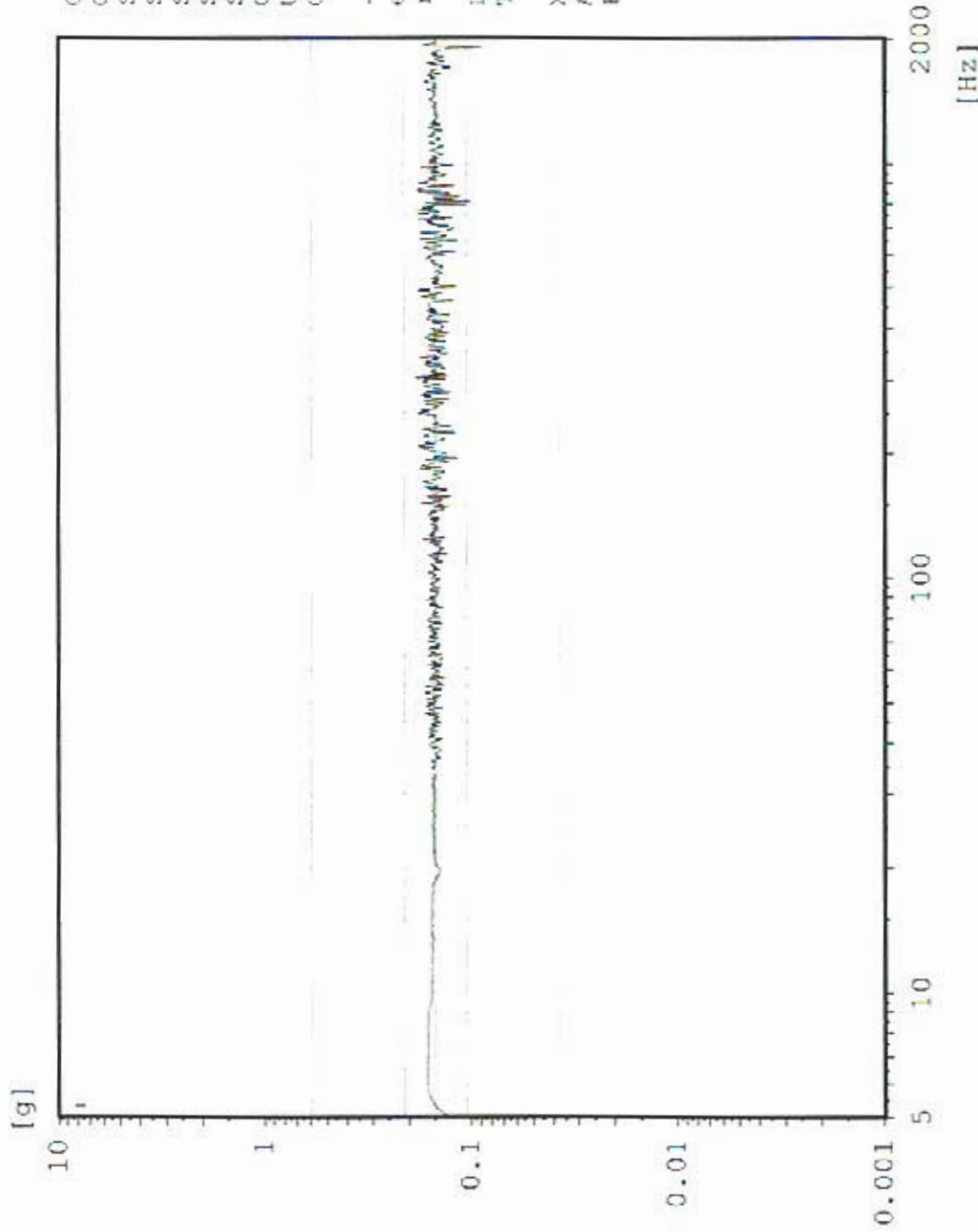
Stanford Linear Accelerator
J/N 49995.52000
TEM / TPS



Chan.no: 1
Chan.type: CW Filtered
Sweep type: logarithmic
Sweeps done: 1
Sweeps req.: 1
Sweep direct.: up
Sweep rate: 2.00 Oct/min
Contr.strat.: Average
Unit: g
Contr.strat.: Closed loop

-- Testing time --
elapsed: 000:04:18
remaining: 000:00:00
Date: 05-24-05
Time: 10:57:12

X - axis
Acceptance Unit
Fixture Only



Sine CX1 X-Axis Control

Stanford Linear Accelerator
J/N 49995.52000
TEM / TPS

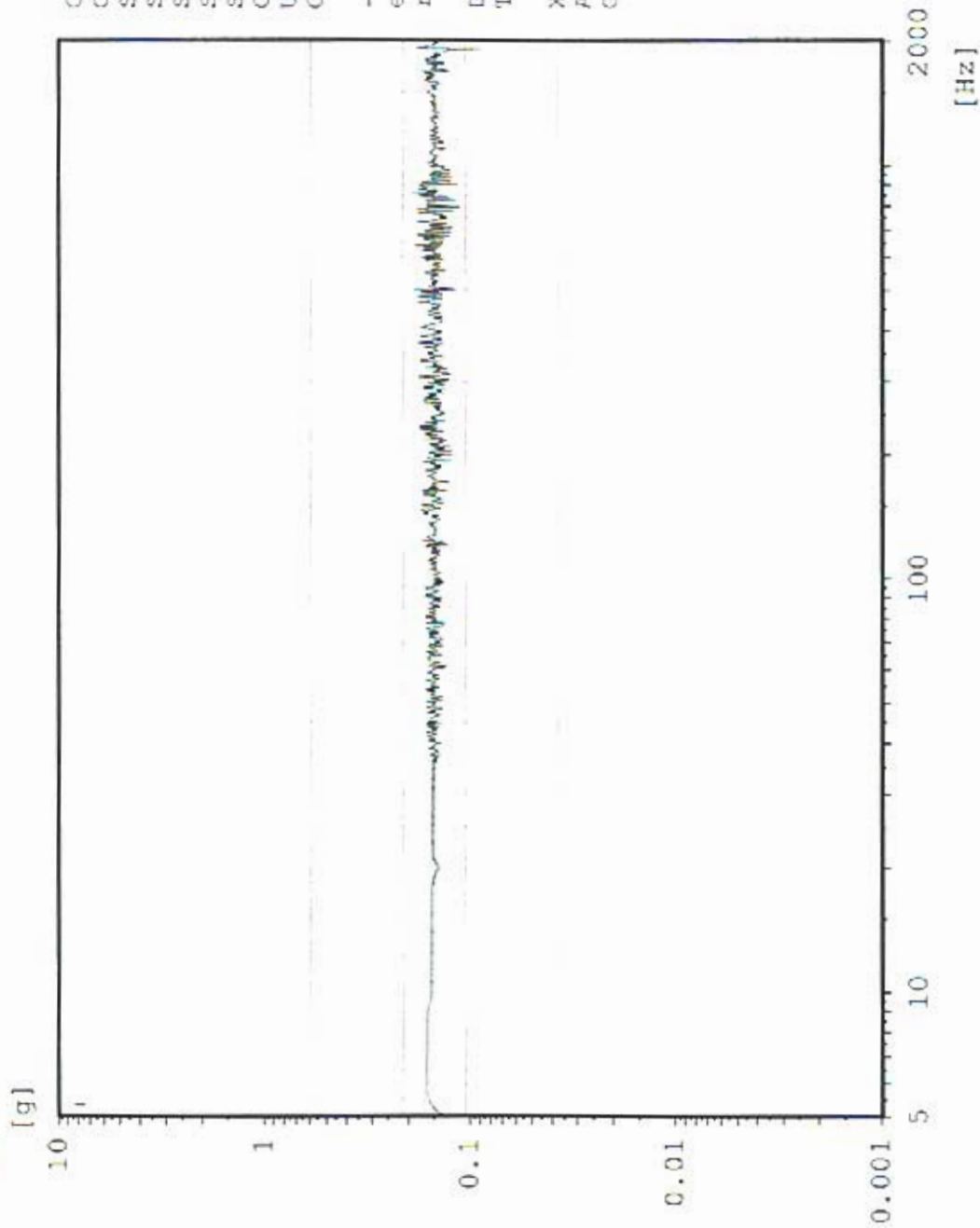


Chan.no: 1
Chan.type: CW Filtered
Sweep type: logarithmic
Sweeps done: 1
Sweeps req.: 1
Sweep direct.: up
Sweep rate: 2.00 Oct./min
Contr.strat.: Average
Unit: g
Contr.strat.: Closed loop

-- Testing time --
elapsed: 000:04:18
remaining: 000:00:00

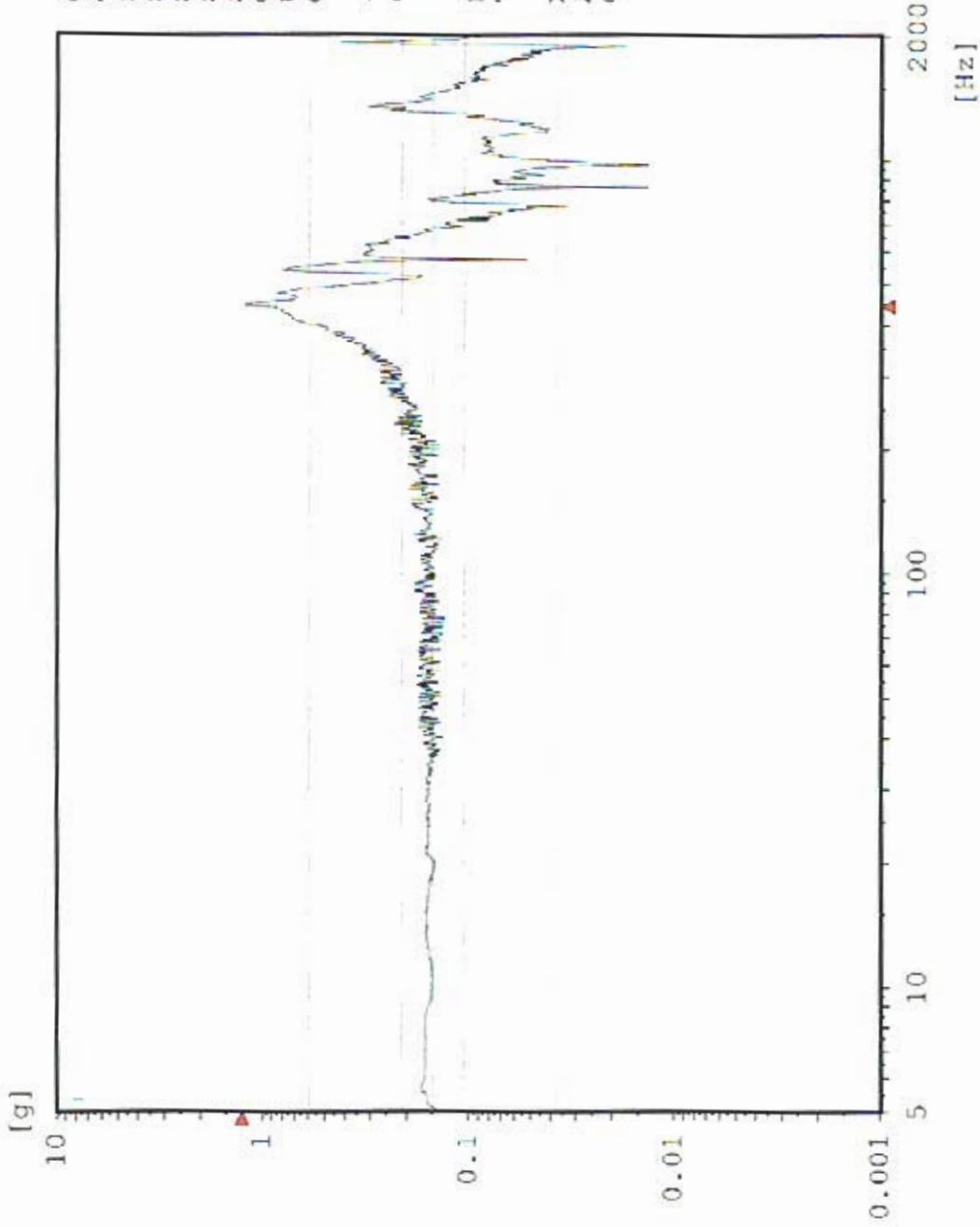
Date: 05-24-05
Time: 11:26:34

X - axis Pre Random
Acceptance Unit
GLAT 1836



Sine AX3 TPS top center

Stanford Linear Accelerator
J/N 49995.52000
TEM / TPS



Chan.no: 2
 Chan.type: X Filtered
 Sweep type: logarithmic
 Sweeps done: 1
 Sweeps req.: 1
 Sweep direct.: up
 Sweep rate: 2.00 Oct/min
 Contr.strat.: ~~Acceptance~~
 Unit: g
 Contr.strat.: Closed loop

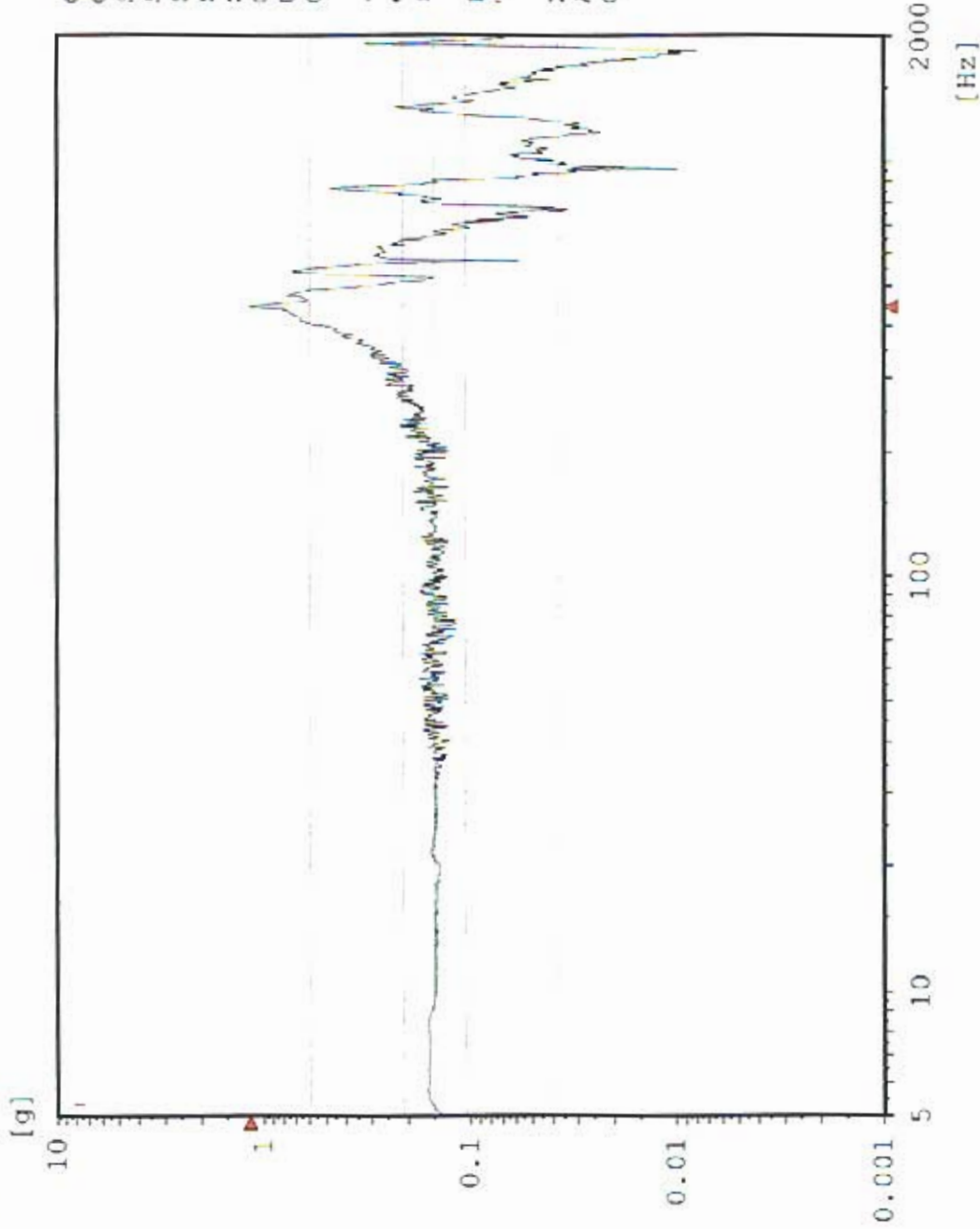
-- Testing time --
 elapsed: 000:04:18
 remaining: 000:00:00

Date: 05-24-05
 Time: 11:26:34

X - axis Pre Random
 Acceptance Unit
 GLAT 1836

AX4 TPS top edge

Sine
Stanford Linear Accelerator
J/N 49995.52000
TEM / TPS



Chan.no: 3
 Chan.type: M Filtered
 Sweep type: logarithmic
 Sweeps done: 1
 Sweeps req.: 1
 Sweep direct.: up
 Sweep rate: 2.00 Oct/min
 Contr.strat.: ~~Acceptance~~
 Unit: g
 Contr.strat.: Closed loop

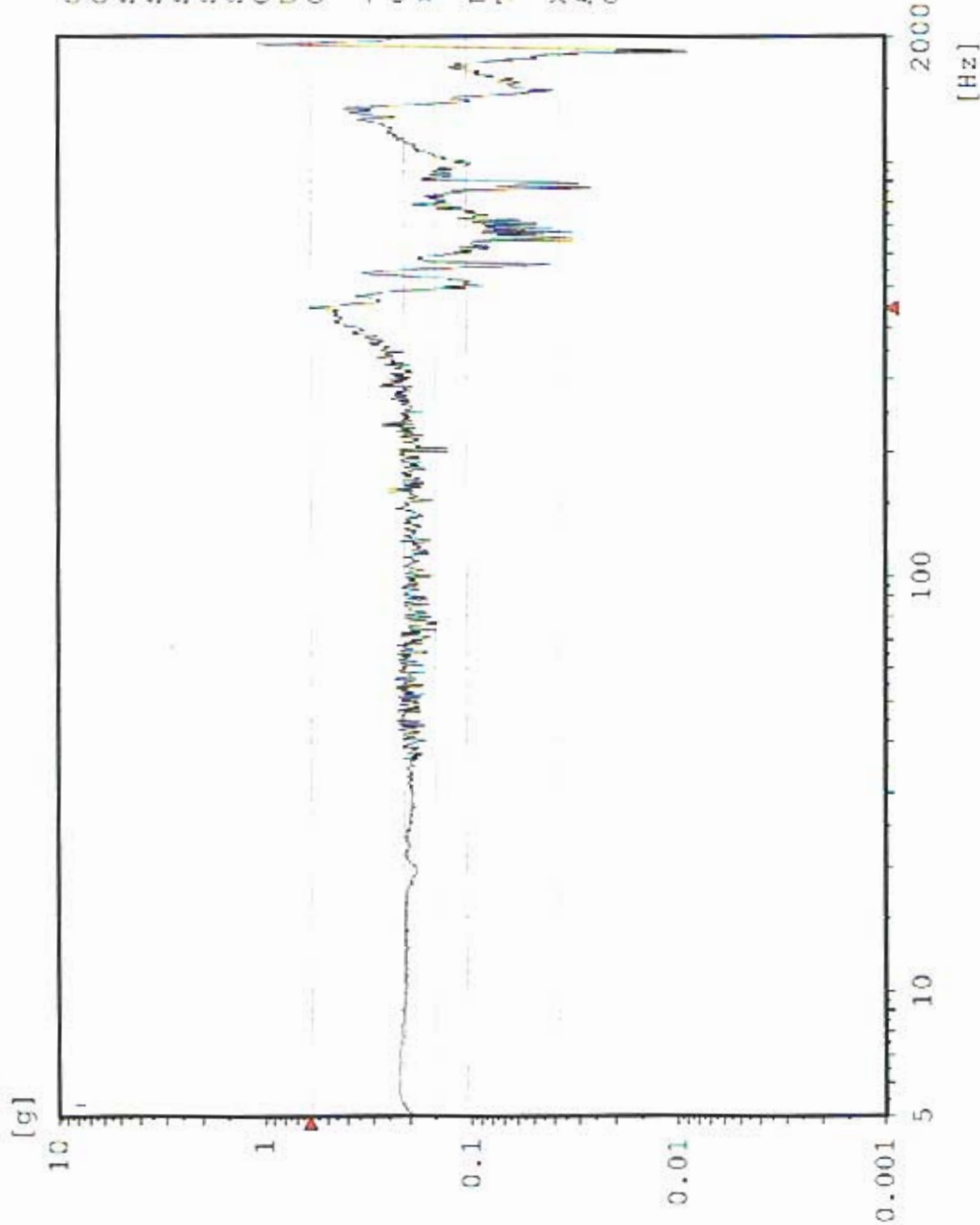
-- Testing time --
 elapsed: 000:04:18
 remaining: 060:00:00

Date: 05-24-05
 Time: 11:26:34

X - axis Pre Random
 Acceptance Unit
 GLAT 1836

Sine AX1 TEM center edge

Stanford Linear Accelerator
J/N 49995.52000
TEM / TPS



Chan.no: 5
 Chan.type: M Filtered
 Sweep type: Logarithmic
 Sweeps done: 1
 Sweeps req.: 1
 Sweep direct.: up
 Sweep rate: 2.00 Oct/min
 Contr.strat.: Average
 Unit: g
 Contr.strat.: Closed loop

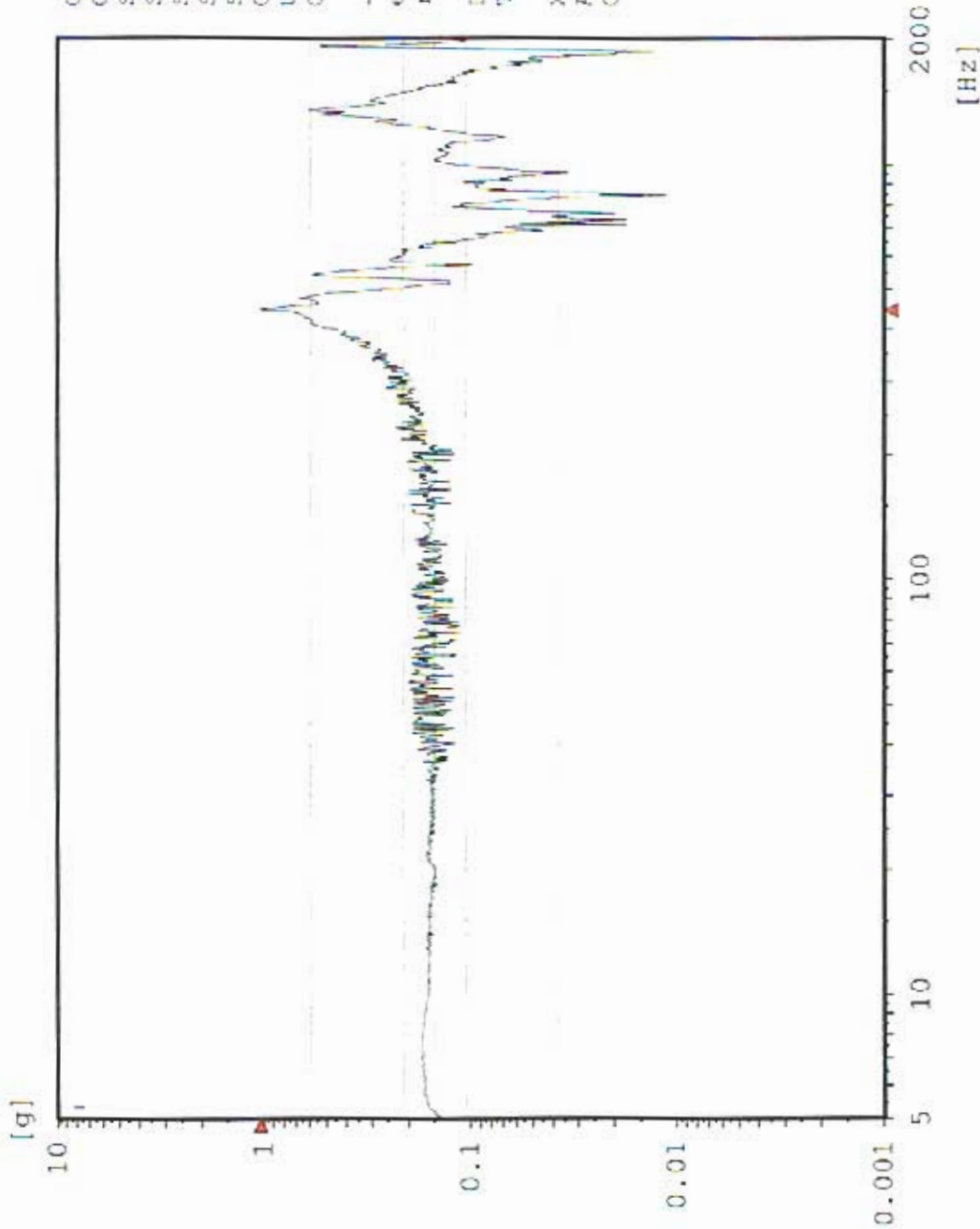
-- Testing time --
 elapsed: 000:04:18
 remaining: 000:00:00

Date: 05-24-05
 Time: 11:26:34

X - axis Pre Random
 Acceptance Unit
 GLAT 1836

AX2 TPS CG

Sine
Stanford Linear Accelerator
J/N 49995.52000
TEM / TPS



Chan.no: 10
 Chan.type: M Filtered
 Sweep type: logarithmic
 Sweeps done: 1
 Sweeps req.: 1
 Sweep direct.: up
 Sweep rate: 2.00 Oct/min
 Contr.strat.: Average
 Unit: g
 Contr.strat.: Closed loop

-- Testing time --
 elapsed: 000:04:18
 remaining: 000:00:00

Date: 05-24-05
 Time: 11:26:34

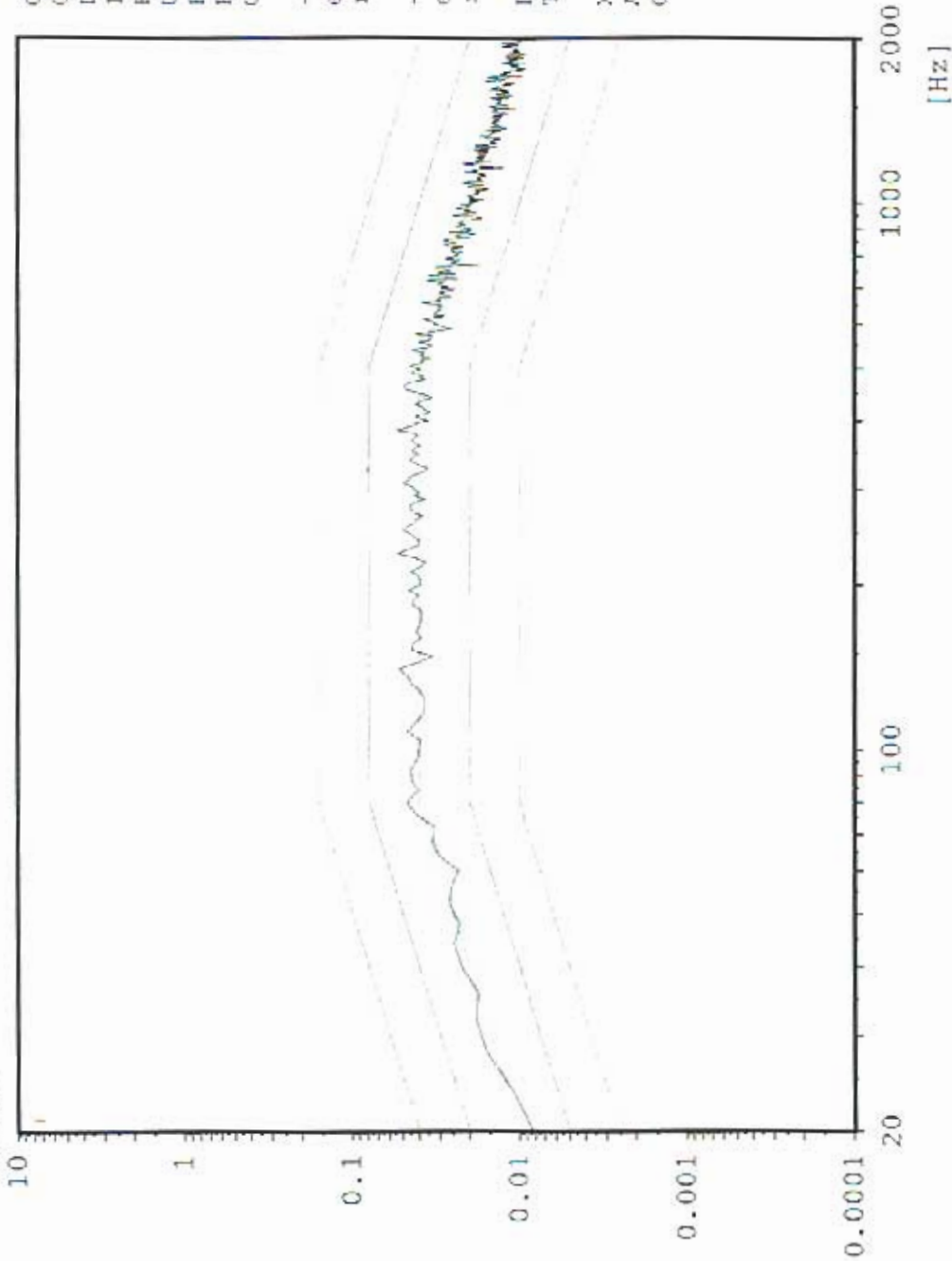
X - axis Pre Random
 Acceptance Unit
 GLAT 1836

CX1 X-Axis Control

Random
Stanford Linear Accelerator
J/N 49995.52000
TEM & TPS



[g²/Hz]



Chan.no: 1
Chan.type: C
DOF: 126
Level: 0.0 dB
Resolution: 4 Hz
Unit: g²/Hz
RMS (act.): 6.865 g
RMS (req.): 6.787 g
Contr.strat.: Closed loop

-- Time on act. level --
elapsed: 000:01:00
remaining: 000:00:00

-- Time total --
elapsed: 000:02:55
remaining: 000:00:00

Date: 05-24-05
Time: 11:38:47

X - Axis
Acceptance Unit
GLAT 1836

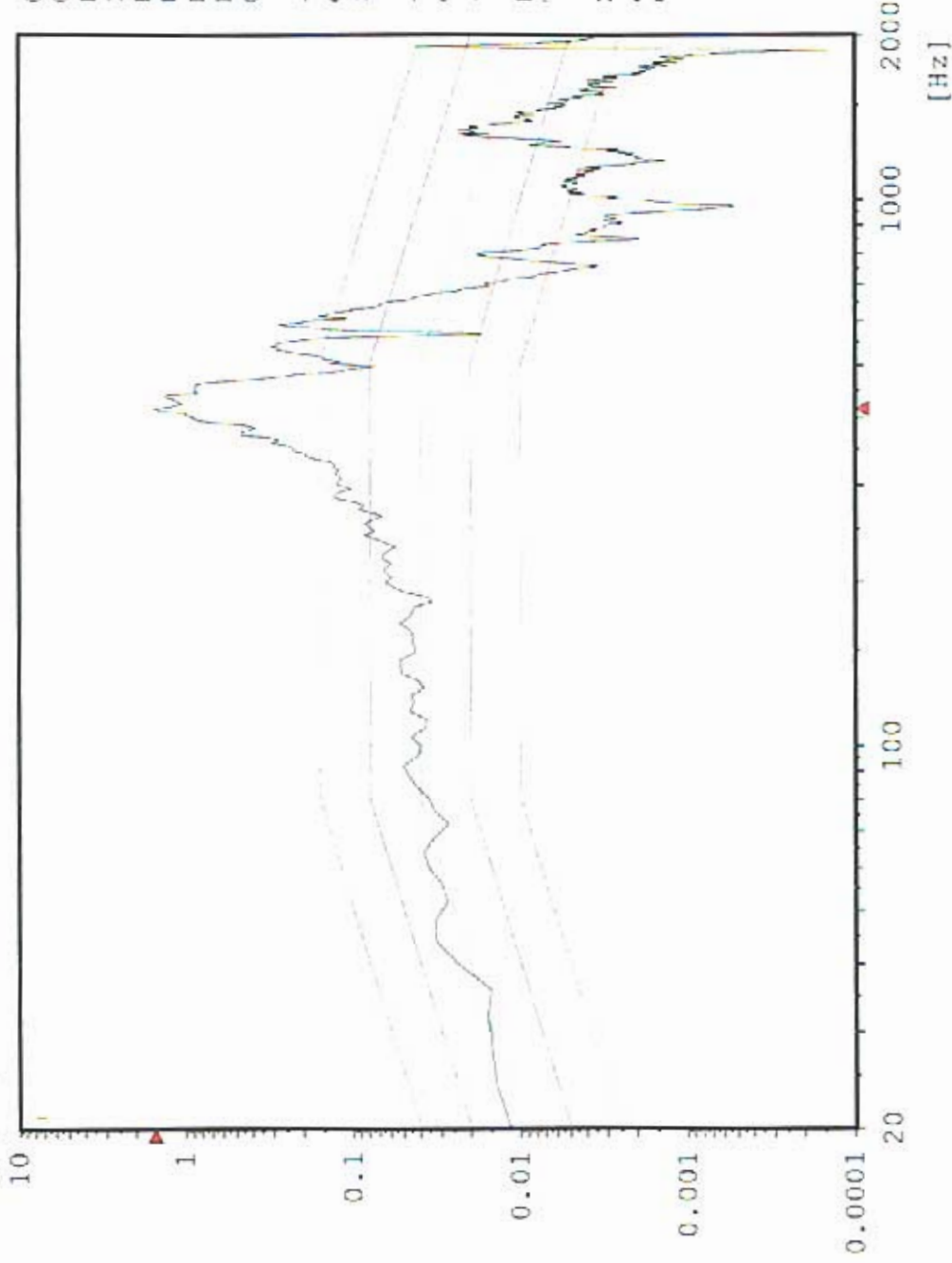
Max: 416 Hz 1.548 g²/Hz

Random AX4 TPS Top Center

Stanford Linear Accelerator
J/N 49995.52000
TEM & TPS



[g²/Hz]



Chan.no: 2
Chan.type: M
DOF: 100
Level: 0.0 dB
Resolution: 4 Hz
Unit: g²/Hz
RMS (act.): 12.52 g
RMS (req.): 6.787 g
Contr.strat.: Closed loop

-- Time on act. level --
elapsed: 000:01:00
remaining: 000:00:00

-- Time total --
elapsed: 000:02:55
remaining: 000:00:00

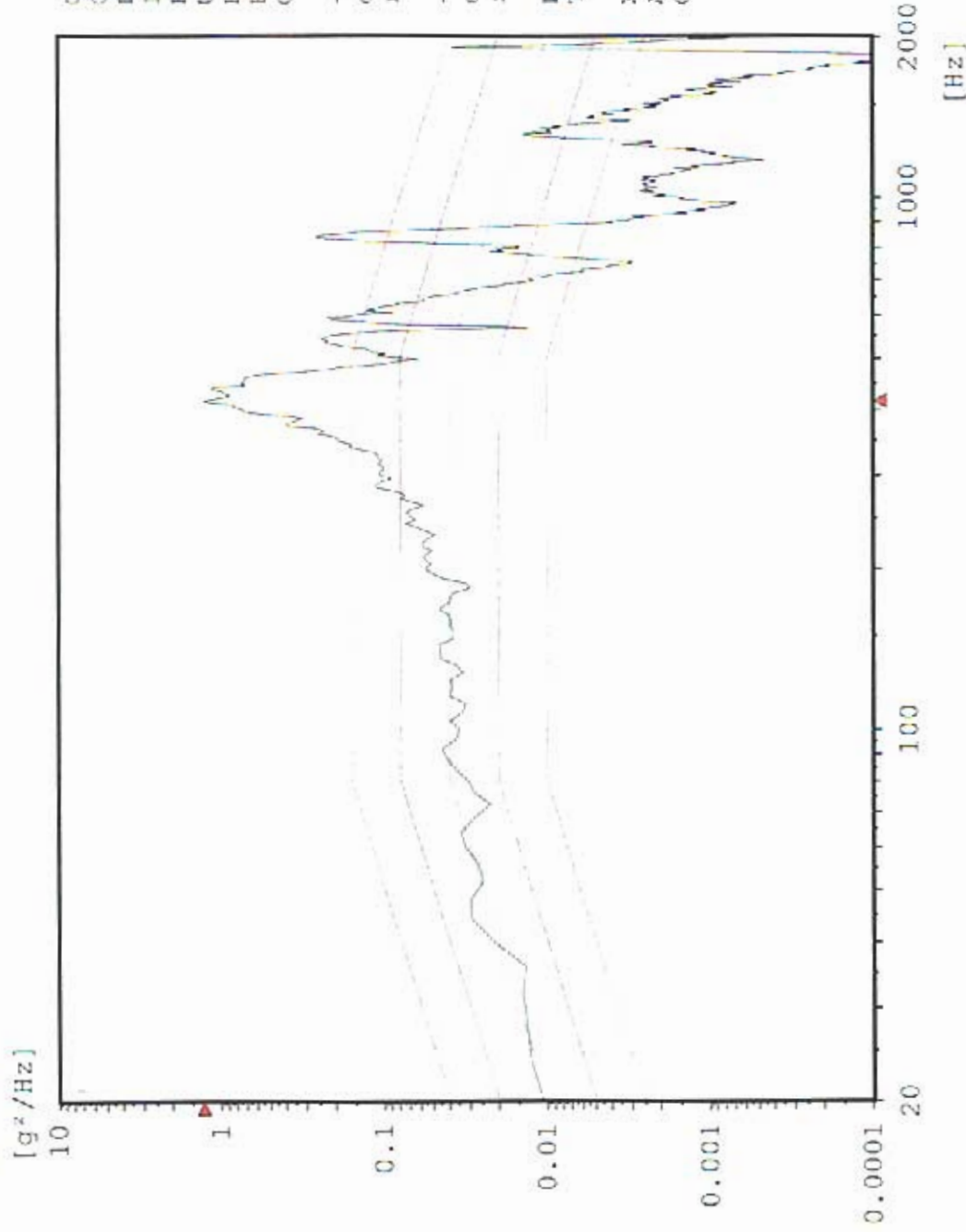
Date: 05-24-05
Time: 11:38:47

X - Axis
Acceptance Unit:
GLAT 1836

Max: 416 Hz 1.294 g²/Hz

Random AX3 TPS Top Edge

Stanford Linear Accelerator
J/N 49995.52000
TEM & TPS



Chan.no: 3
Chan.type: M
DOF: 100
Level: 0.0 dB
Resolution: 4 Hz
Unit: g²/Hz
RMS (act.): 11.74 g
RMS (req.): 6.787 g
Contr.strat.: Closed loop

-- Time on act. level --
elapsed: 000:01:00
remaining: 000:00:00

-- Time total --
elapsed: 000:02:55
remaining: 000:00:00

Date: 05-24-05
Time: 11:38:47

X - Axis
Acceptance Unit
GLAT 1836

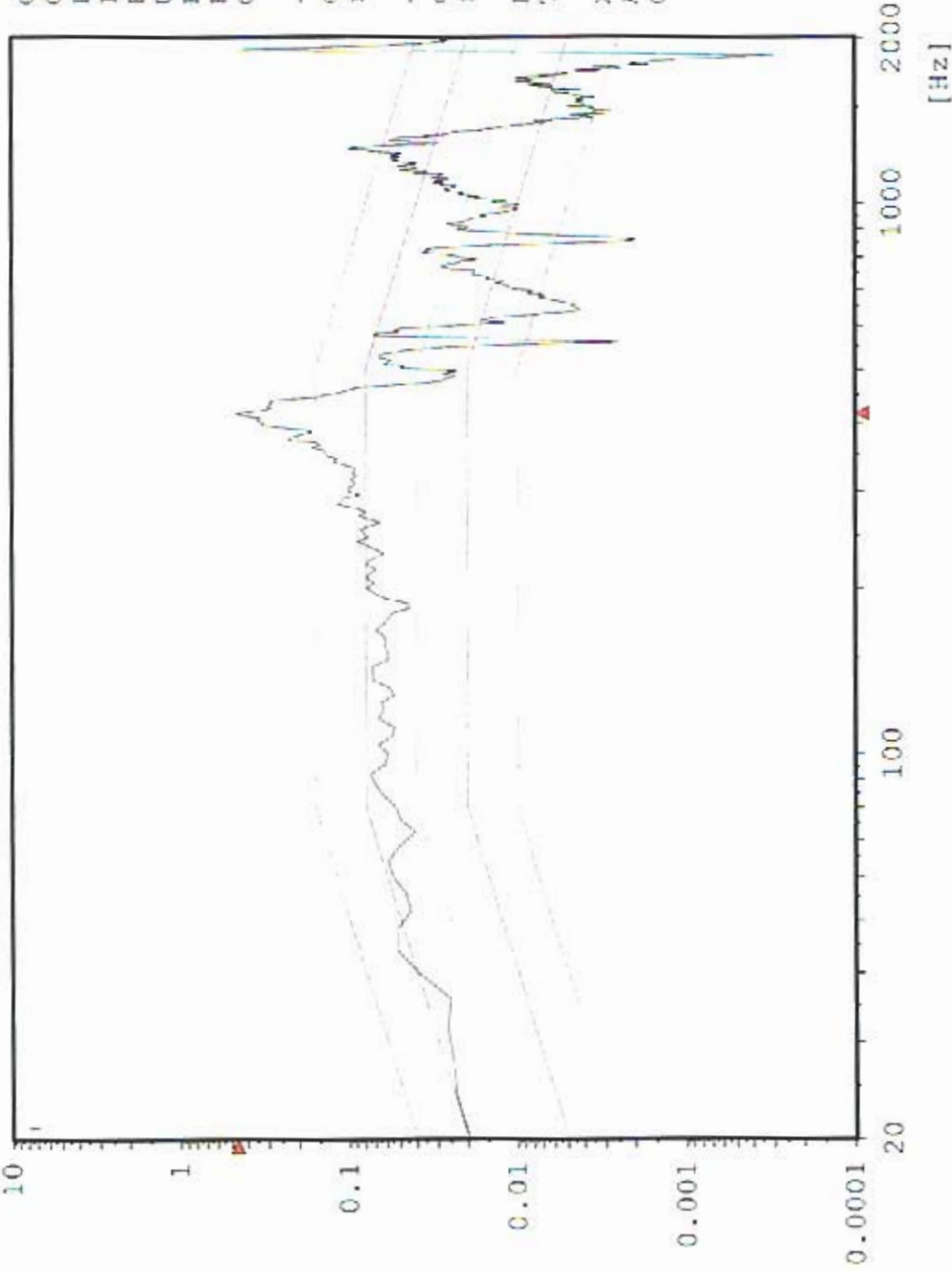
Max: 416 Hz 0.4646 g²/Hz

Random CH# 5 TEM center edge

Stanford Linear Accelerator
J/N 49995.52600
TEM & TPS



[g²/Hz]



Chan.no: 5
Chan.type: M
DOF: 100
Level: 6.0 dB
Resolution: 4 Hz
Unit: g²/Hz
RMS (act.): 9.511 g
RMS (req.): 6.787 g
Contr.strat.: Closed loop

-- Time on act. level --
elapsed: 000:01:00
remaining: 000:00:00

-- Time total --
elapsed: 000:02:55
remaining: 000:00:00

Date: 05-24-05
Time: 11:38:47

X - Axis
Acceptance Unit
GLAT 1836

Max: 416 Hz 0.9952 g²/Hz

Random AX2 TPS Bottom center

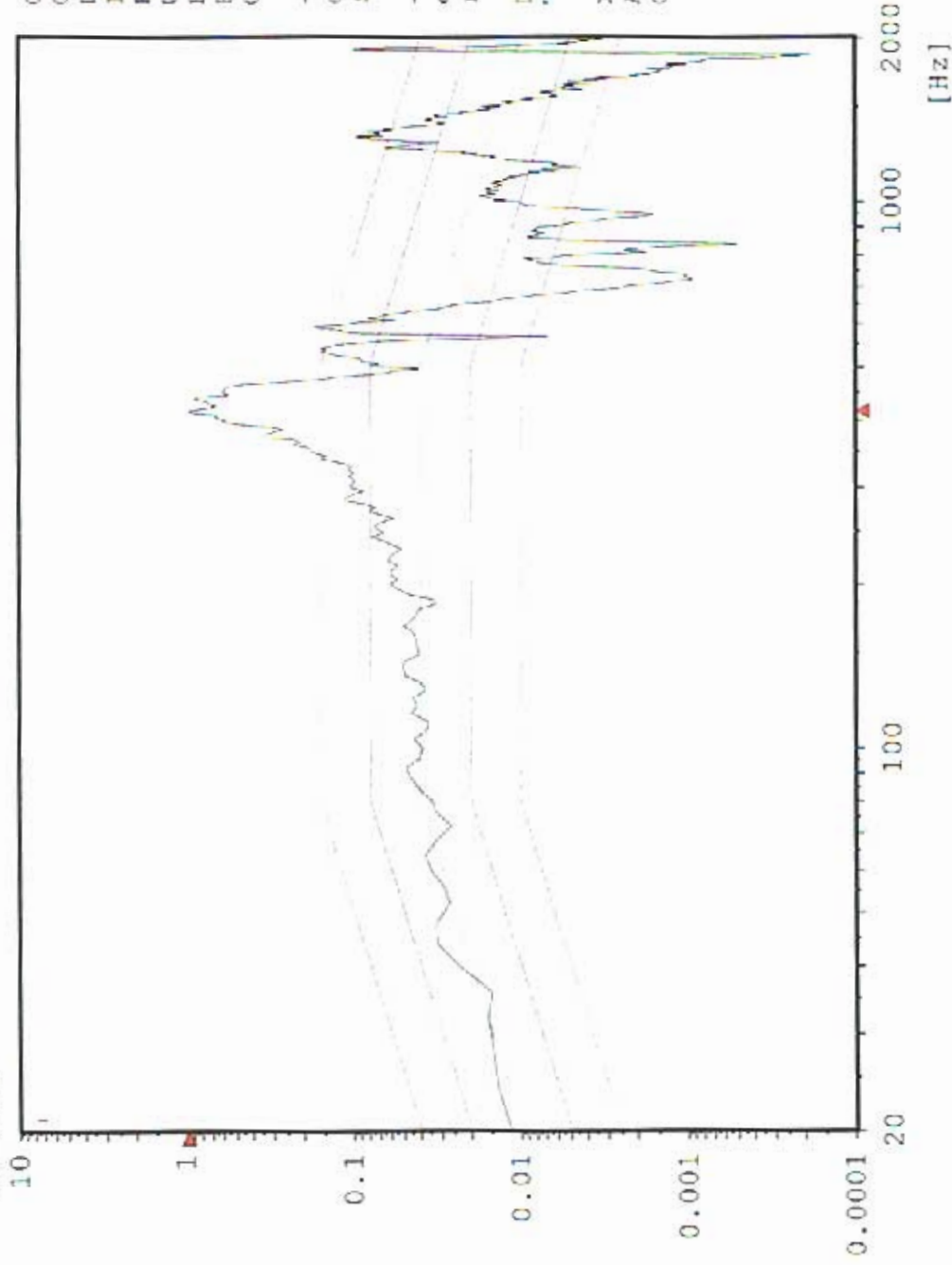
Stanford Linear Accelerator

J/N 49995.52000

TEM & TPS



[g²/Hz]



Chan.no: 10 M
Chan.type: 100
DOF: 100
Level: 0.0 dB
Resolution: 4 Hz
Unit: g²/Hz
RMS (act.): 10.93 g
RMS (req.): 6.787 g
Contr.strat.: Closed loop

-- Time on act. level --
elapsed: 000:01:00
remaining: 000:00:00

-- Time total --
elapsed: 000:02:55
remaining: 000:00:00

Date: 05-24-05
Time: 11:38:47

X - Axis
Acceptance Unit
GLAT 1836

Sine CX1 X-Axis Control

Stanford Linear Accelerator
J/N 49995.52000
TEM / TPS

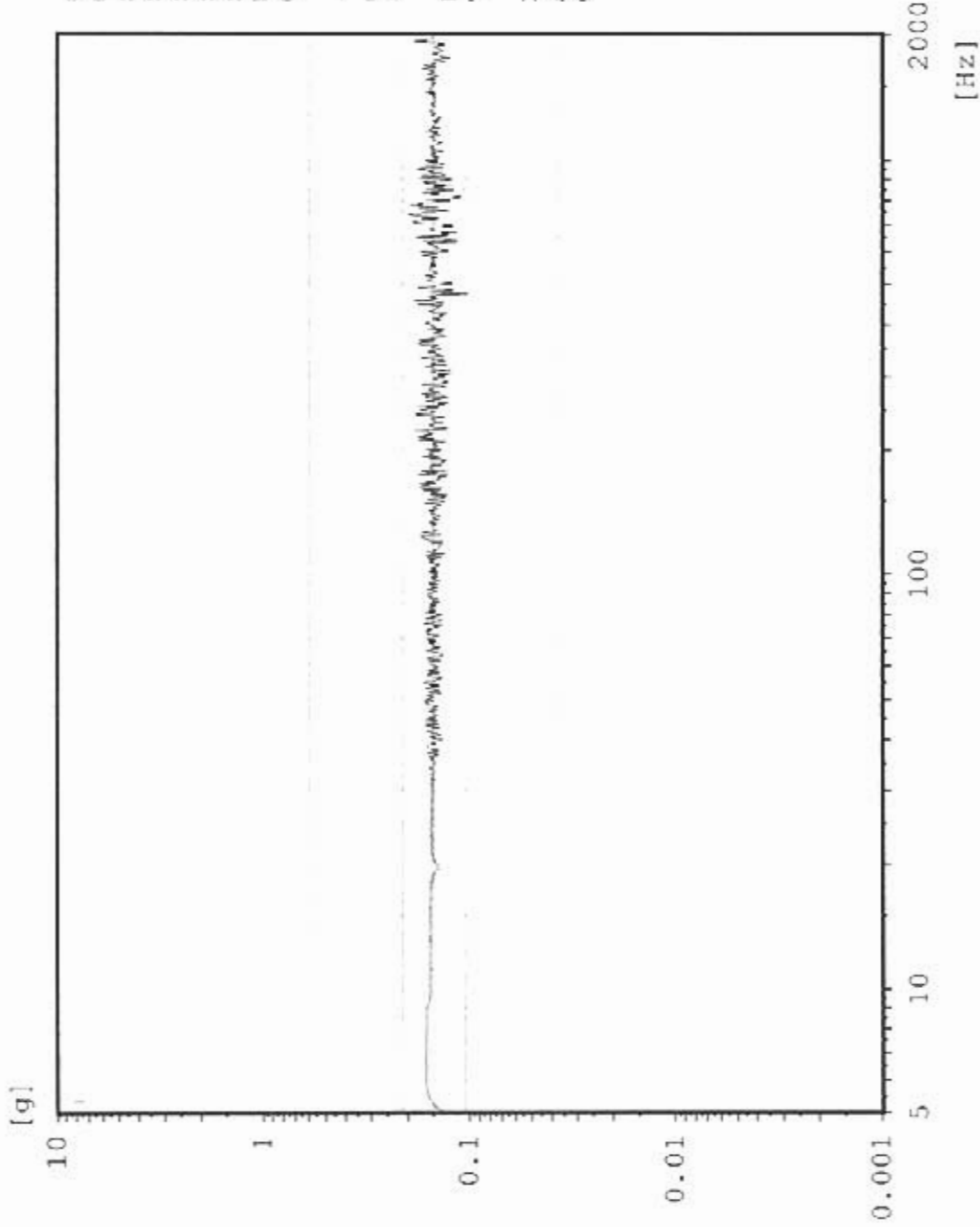


Chan.no: 1
Chan.type: CW Filtered
Sweep type: logarithmic
Sweeps done: 1
Sweeps req.: 1
Sweep direct.: up
Sweep rate: 2.00 Oct/min
Unit: g
Contr.strat.: Closed loop

-- Testing time --
elapsed: 000:04:18
remaining: 000:00:00

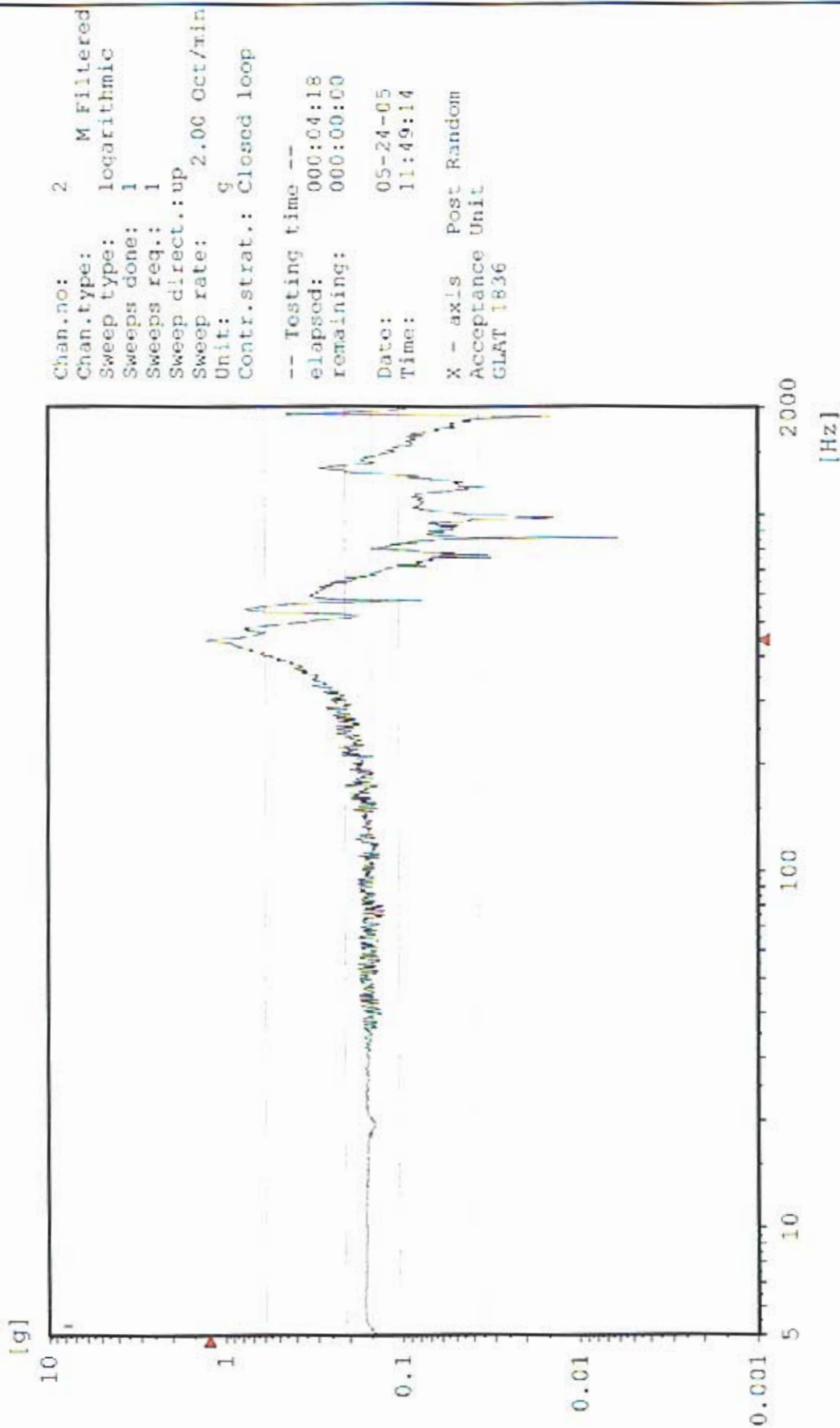
Date: 05-24-05
Time: 11:49:14

X - axis Post Random
Acceptance Unit
GLAT 1836



Sine AX3 TPS top center

Stanford Linear Accelerator
J/N 49995.52000
TEM / TPS



Chan.no: 2
 Chan.type: M Filtered
 Sweep type: logarithmic
 Sweeps done: 1
 Sweeps req.: 1
 Sweep direct.: up
 Sweep rate: 2.00 Oct/min
 Unit: g
 Contr.strat.: Closed loop

-- Testing time --
 elapsed: 000:04:18
 remaining: 000:00:00

Date: 05-24-05
 Time: 11:49:14

X - axis Post Random
 Acceptance Unit
 GLAT 1836

AX4 TPS top edge

Sine
Stanford Linear Accelerator
J/N 49995.52000
TEM / TPS

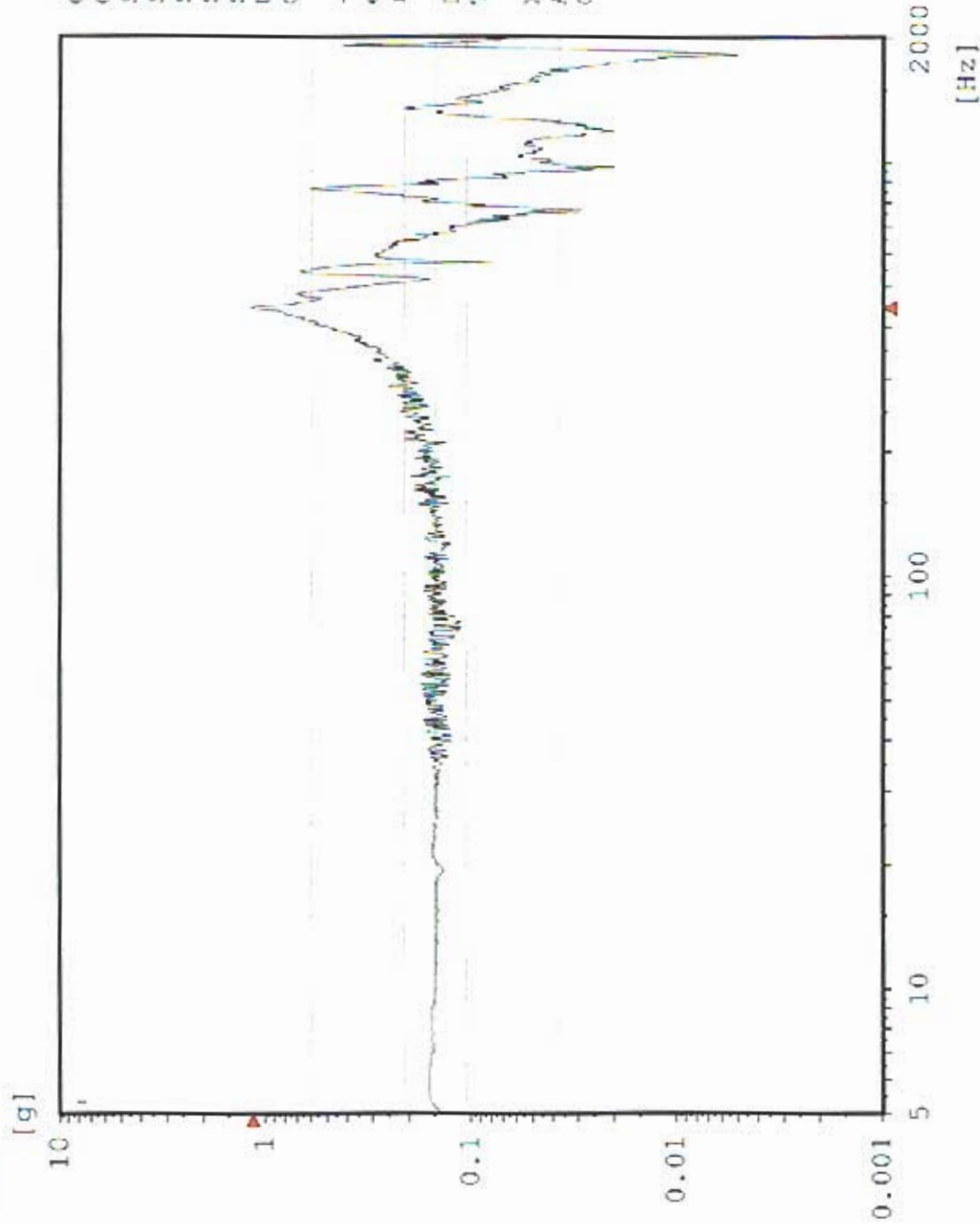


Chan.no: 3
Chan.type: M Filtered
Sweep type: logarithmic
Sweeps done: 1
Sweeps req.: 1
Sweep direct.: up
Sweep rate: 2.00 Oct/min
Unit: g
Contr.strat.: Closed loop

-- Testing time --
elapsed: 000:04:18
remaining: 000:00:00

Date: 05-24-05
Time: 11:49:14

X - axis Post Random
Acceptance Unit
GLAT: 1836



Sine AXI TEM center edge

Stanford Linear Accelerator
J/N 49995.52000
TEM / TPS

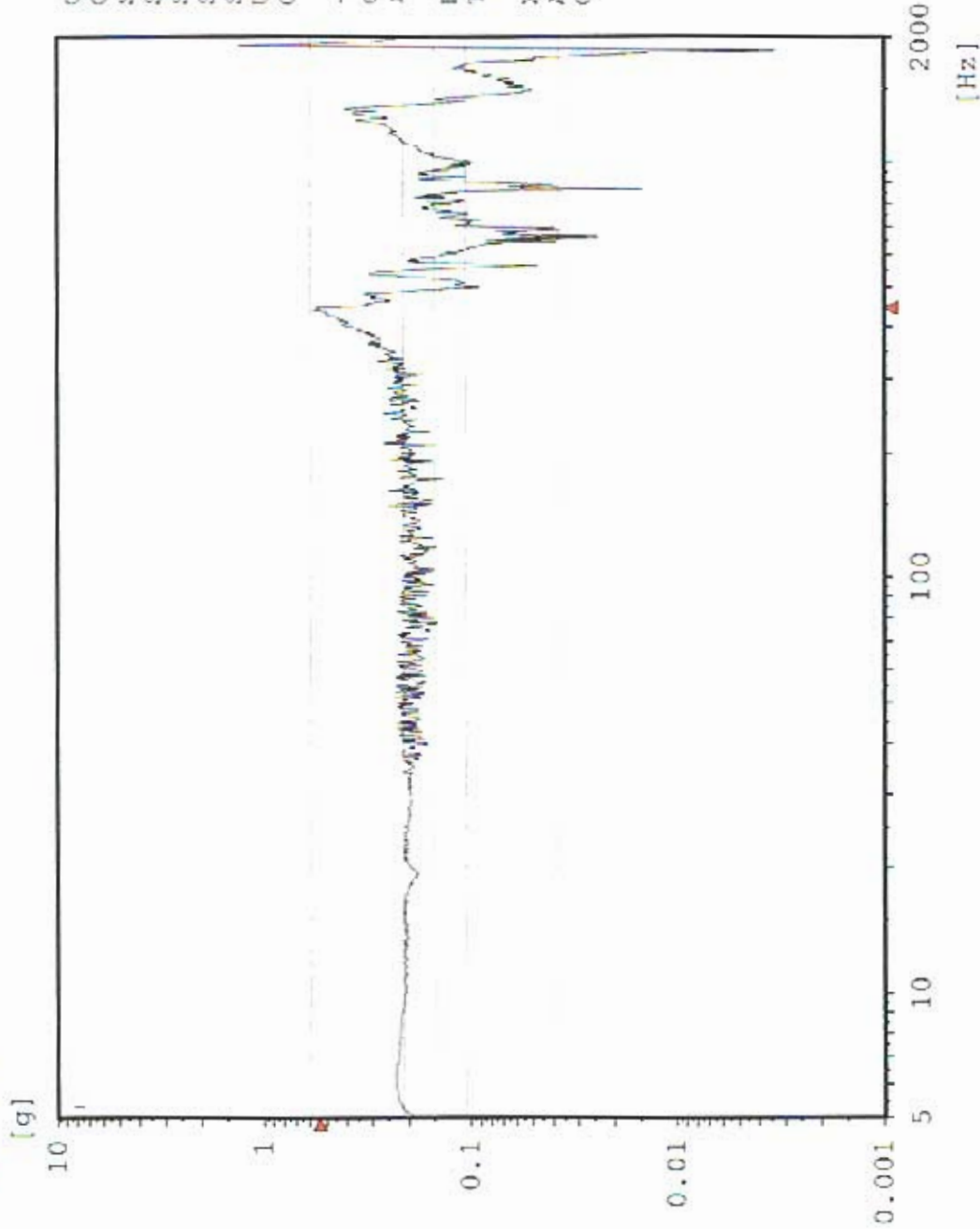


Chan.no: 5
Chan.type: M Filtered
Sweep type: logarithmic
Sweeps done: 1
Sweeps req.: 1
Sweep direct.: up
Sweep rate: 2.00 Oct/min
Unit: g
Contr.strat.: Closed loop

-- Testing time --
elapsed: 000:04:18
remaining: 000:00:00

Date: 05-24-05
Time: 11:49:14

X - axis Post Random
Acceptance Unit
GLAT 1836



AX2 TPS CG

Sine
Stanford Linear Accelerator
J/N 49995.52000
TEM / TPS

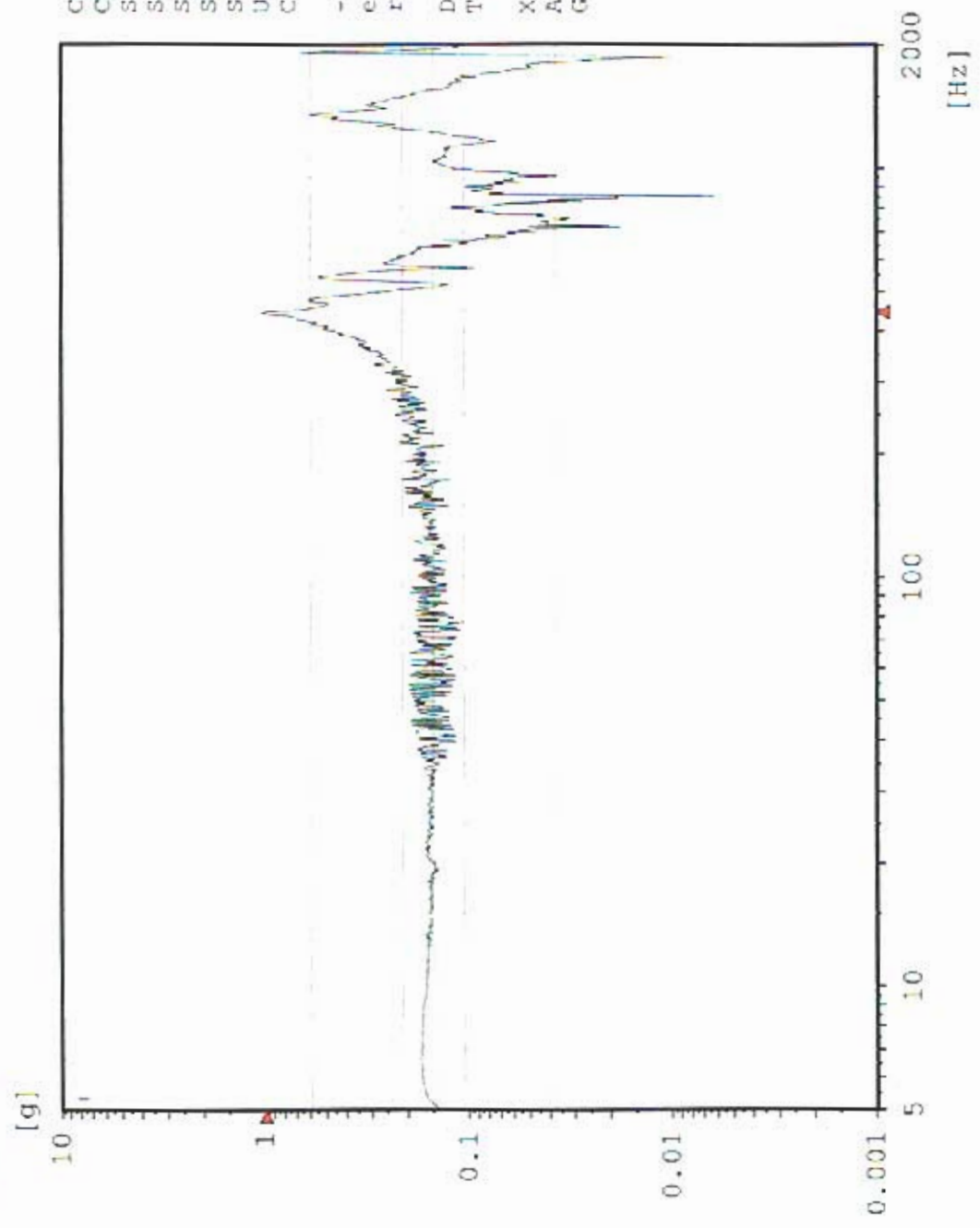


Chan.no: 10
Chan.type: M Filtered
Sweep type: logarithmic
Sweeps done: 1
Sweeps req.: 1
Sweep direct.: up
Sweep rate: 2.00 Oct/min.
Unit: g
Contr.strat.: Closed loop

-- Testing time --
elapsed: 000:04:18
remaining: 000:00:00

Date: 05-24-05
Time: 11:49:14

X - axis Post Random
Acceptance Unit
GLAT 1836



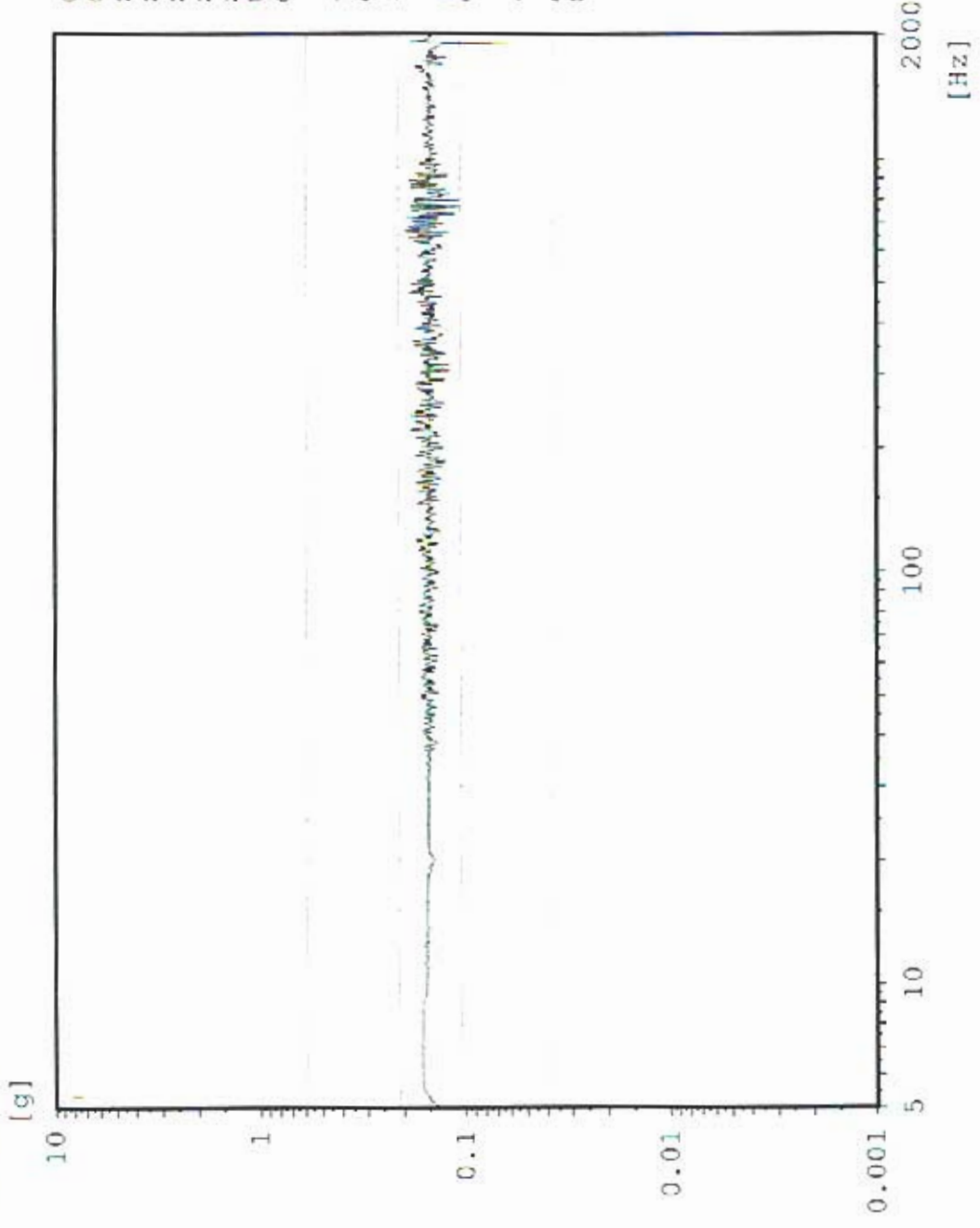
CY1 Y-Axis Control

Sine
Stanford Linear Accelerator
J/N 49995.52000
TEM / TPS



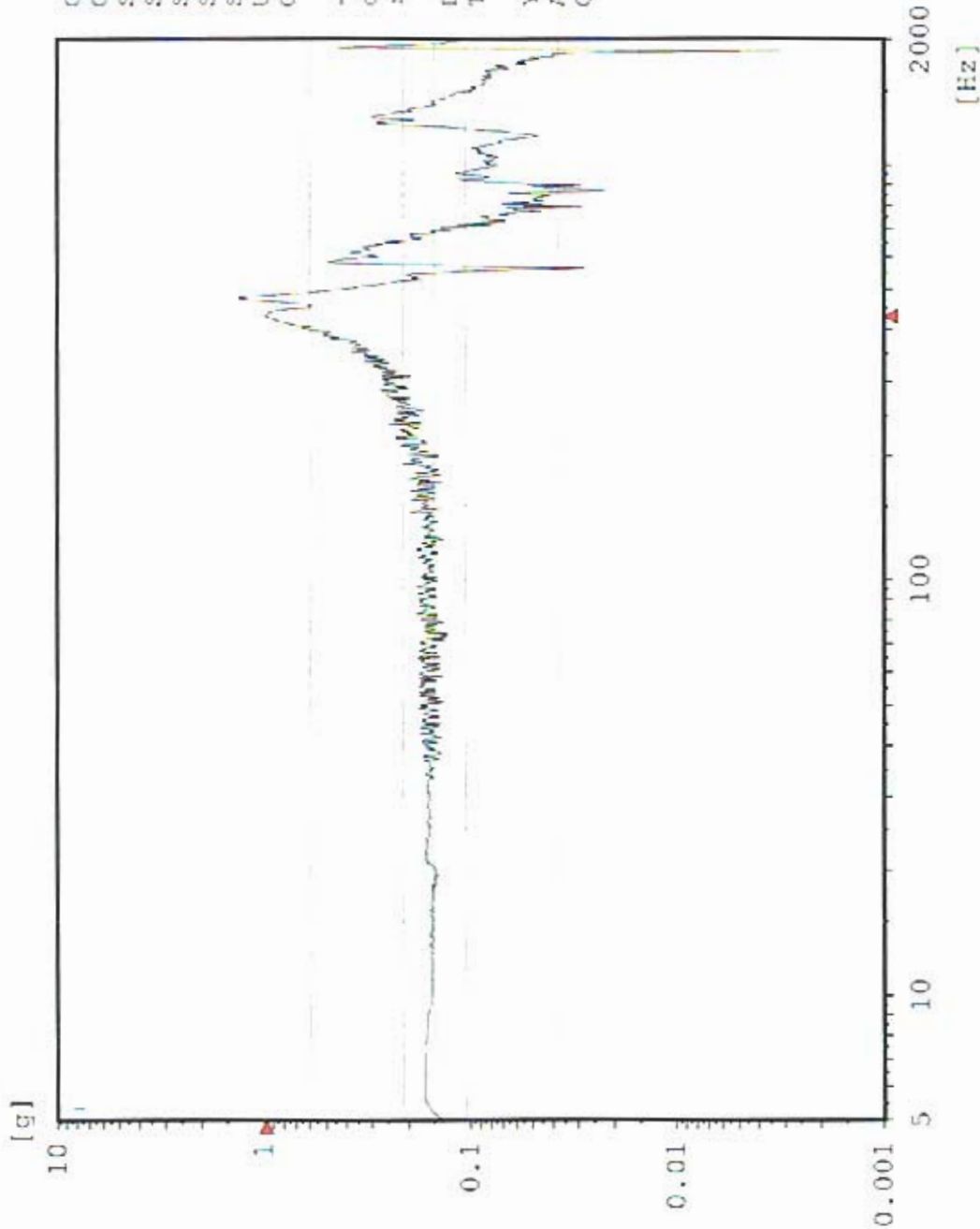
Chan.no: 1
Chan.type: CW Filtered
Sweep type: logarithmic
Sweeps done: 1
Sweeps req.: 1
Sweep direct.: up
Sweep rate: 2.00 Oct./min
Unit: g
Contr.strat.: Closed loop

-- Testing time --
elapsed: 000:04:18
remaining: 000:00:00
Date: 05-24-05
Time: 12:18:50
Y - axis Pre Random
Acceptance Unit
GLAT 1836



AY3 TPS Top Center

Sine
Stanford Linear Accelerator
J/N 49995.52000
TEM / TPS



Chan.no: 2
 Chan.type: X Filtered
 Sweep type: logarithmic
 Sweeps done: 1
 Sweeps req.: 1
 Sweep direct.: up
 Sweep rate: 2.00 Oct./min
 Unit: g
 Contr.strat.: Closed loop

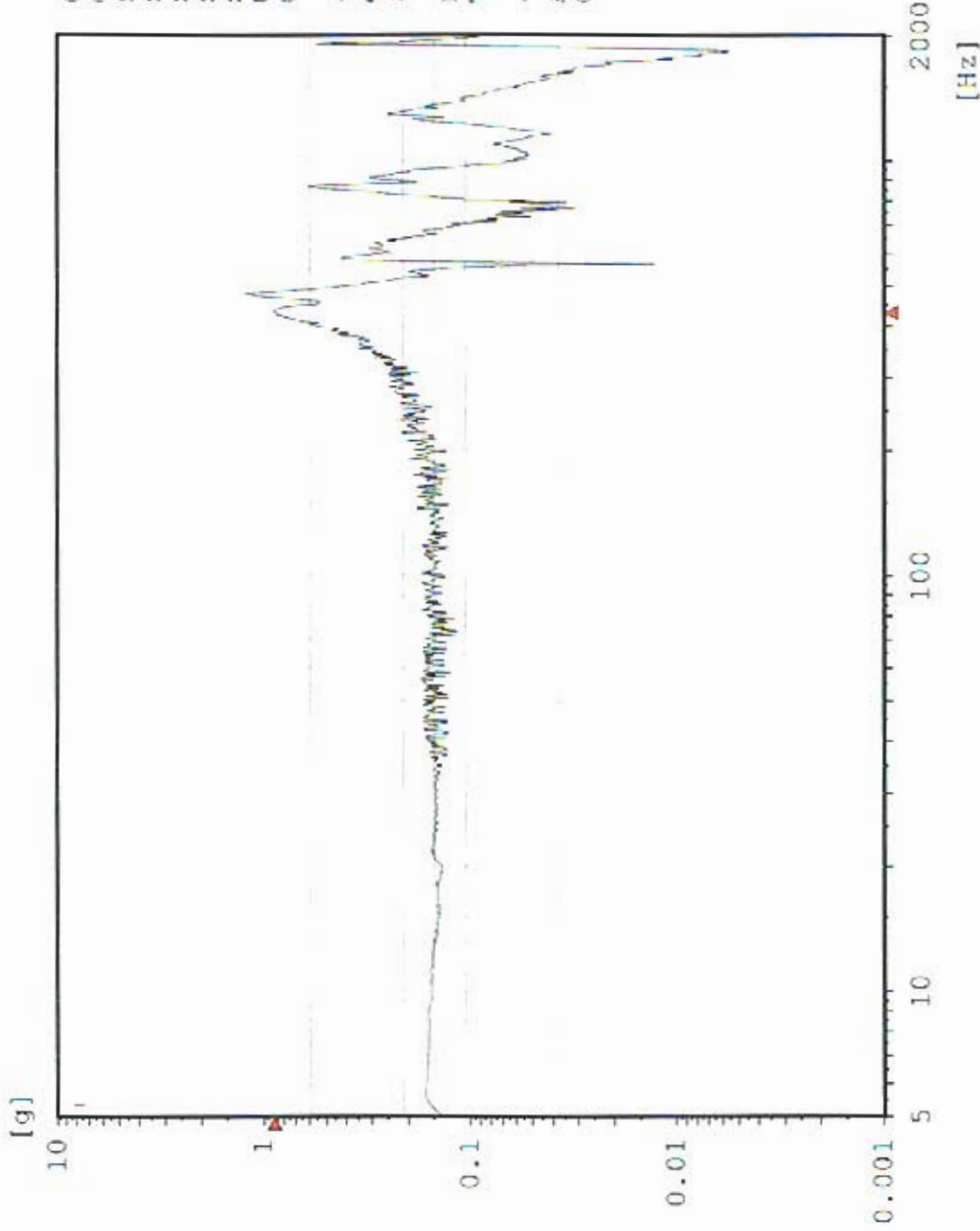
-- Testing time --
 elapsed: 000:04:18
 remaining: 000:00:00

Date: 05-24-05
 Time: 12:18:50

Y - axis Pre Random
 Acceptance Unit
 GLAT 1836

AY4 TPS Top Edge

Sine
Stanford Linear Accelerator
J/N 49995.52000
TEM / TPS



Chan.no: 3
 Chan.type: M Filtered
 Sweep type: logarithmic
 Sweeps done: 1
 Sweeps req.: 1
 Sweep direct.: up
 Sweep rate: 2.00 Oct./min
 Unit: g
 Contr.strat.: Closed loop

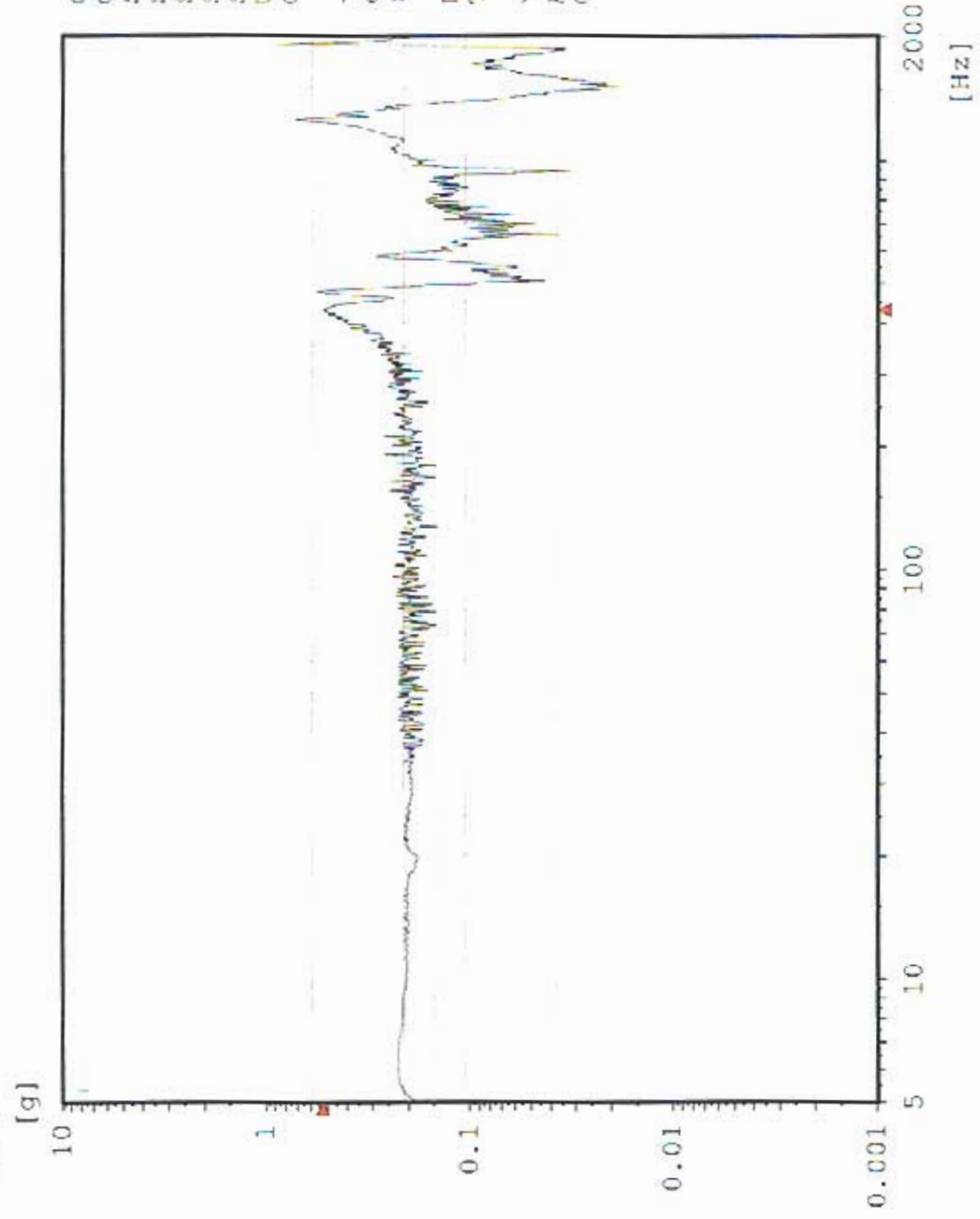
-- testing time --
 elapsed: 000:04:19
 remaining: 000:09:00

Date: 05-24-05
 Time: 12:18:50

Y - axis Pre Random
 Acceptance Unit
 GLAT 1836

Sine AY1 TEM Center Edge

Stanford Linear Accelerator
J/N 49995.52000
TEM / TPS



Chan.no: 5
 Chan.type: M Filtered
 Sweep type: logarithmic
 Sweeps done: 1
 Sweeps req.: 1
 Sweep direct.: up
 Sweep rate: 2.00 Oct/min
 Unit: g
 Contr.strat.: Closed loop

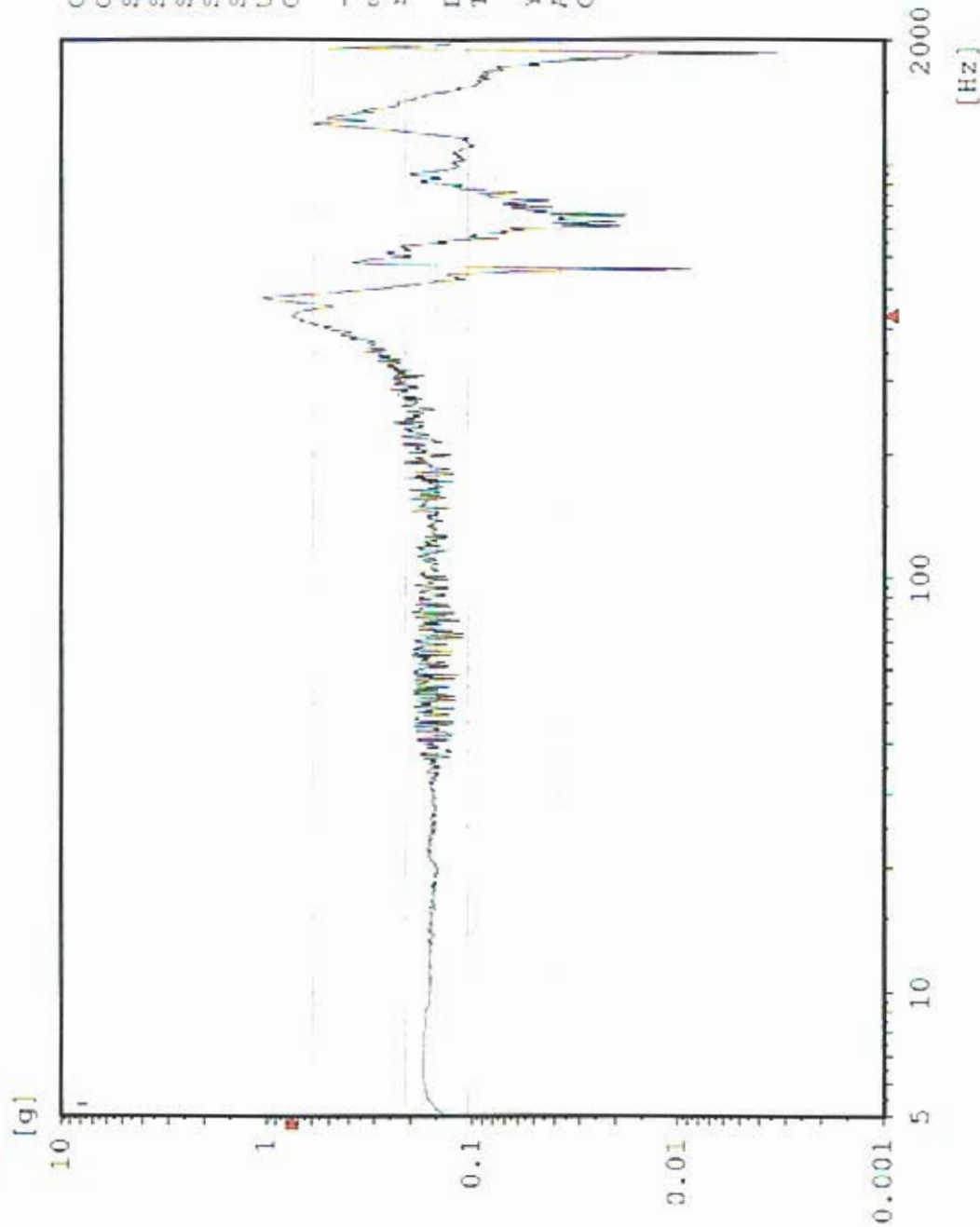
-- Testing time --
 elapsed: 000:04:18
 remaining: 000:00:00

Date: 05-24-05
 Time: 12:18:50

Y - axis Pre Random
 Acceptance Unit
 GLAT 1836

Sine AY2 TPS CG

Stanford Linear Accelerator
J/N 49995.52000
TEM / TPS



Chan.no: 10
 Chan.type: M Filtered
 Sweep type: logarithmic
 Sweeps done: 1
 Sweeps req.: 1
 Sweep direct.: up
 Sweep rate: 2.00 Oct/min
 Unit: g
 Contr.strat.: Closed loop

-- Testing time --
 elapsed: 000:04:18
 remaining: 000:00:00

Date: 05-24-05
 Time: 12:18:50

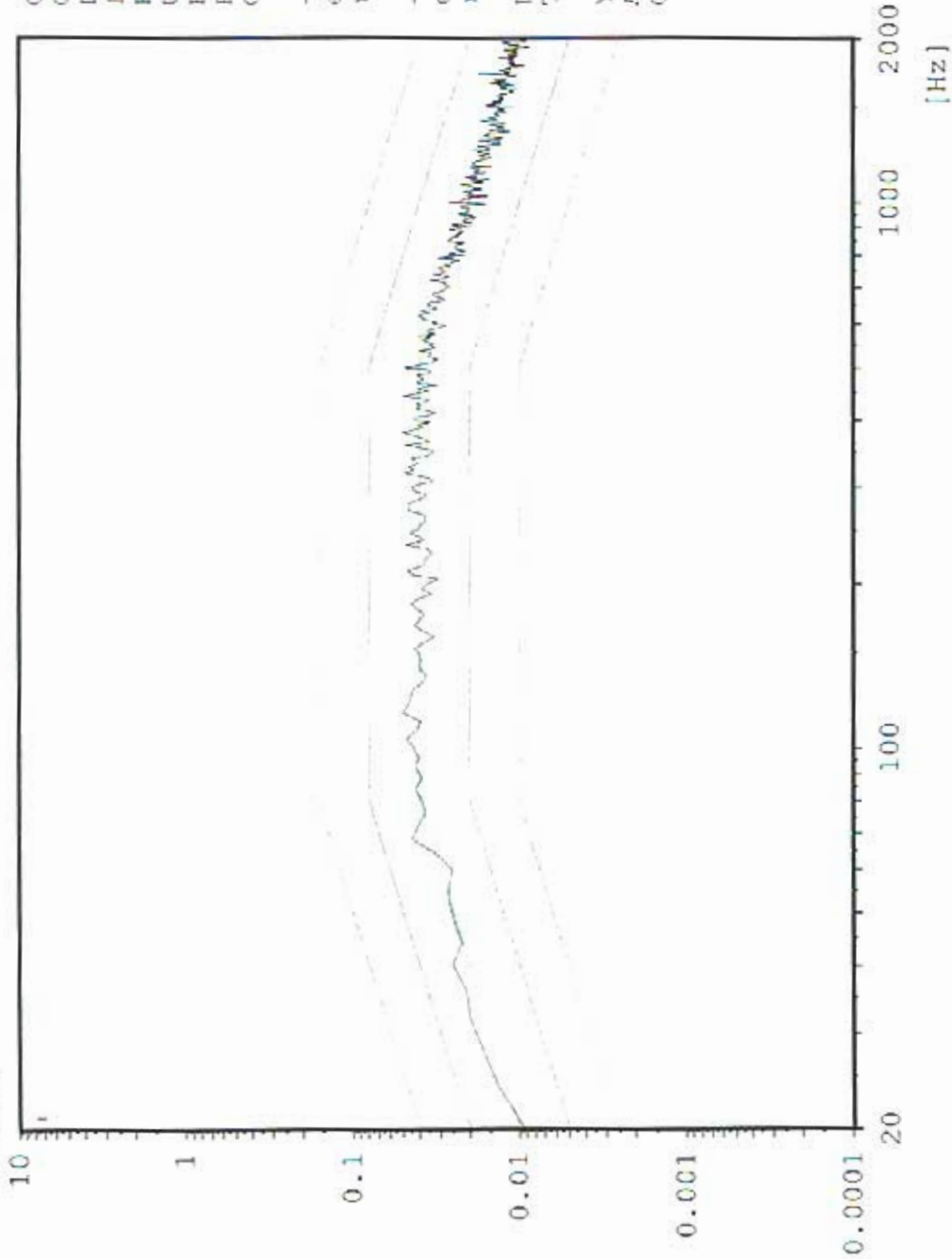
Y - axis Pre Random
 Acceptance Unit
 GLAT 1836

CY1 Y-Axis Control

Random
Stanford Linear Accelerator
J/N 49995.52000
TEM & TPS



[g²/Hz]



Chan.no: 1
Chan.type: C
DOF: 126
Level: 0.0 dB
Resolution: 4 Hz
Unit: g²/Hz
RMS (act.): 6.821 g
RMS (req.): 6.787 g
Contr.strat.: Closed loop

-- Time on act. level --
elapsed: 000:01:00
remaining: 000:00:00

-- Time total --
elapsed: 000:02:53
remaining: 000:00:00

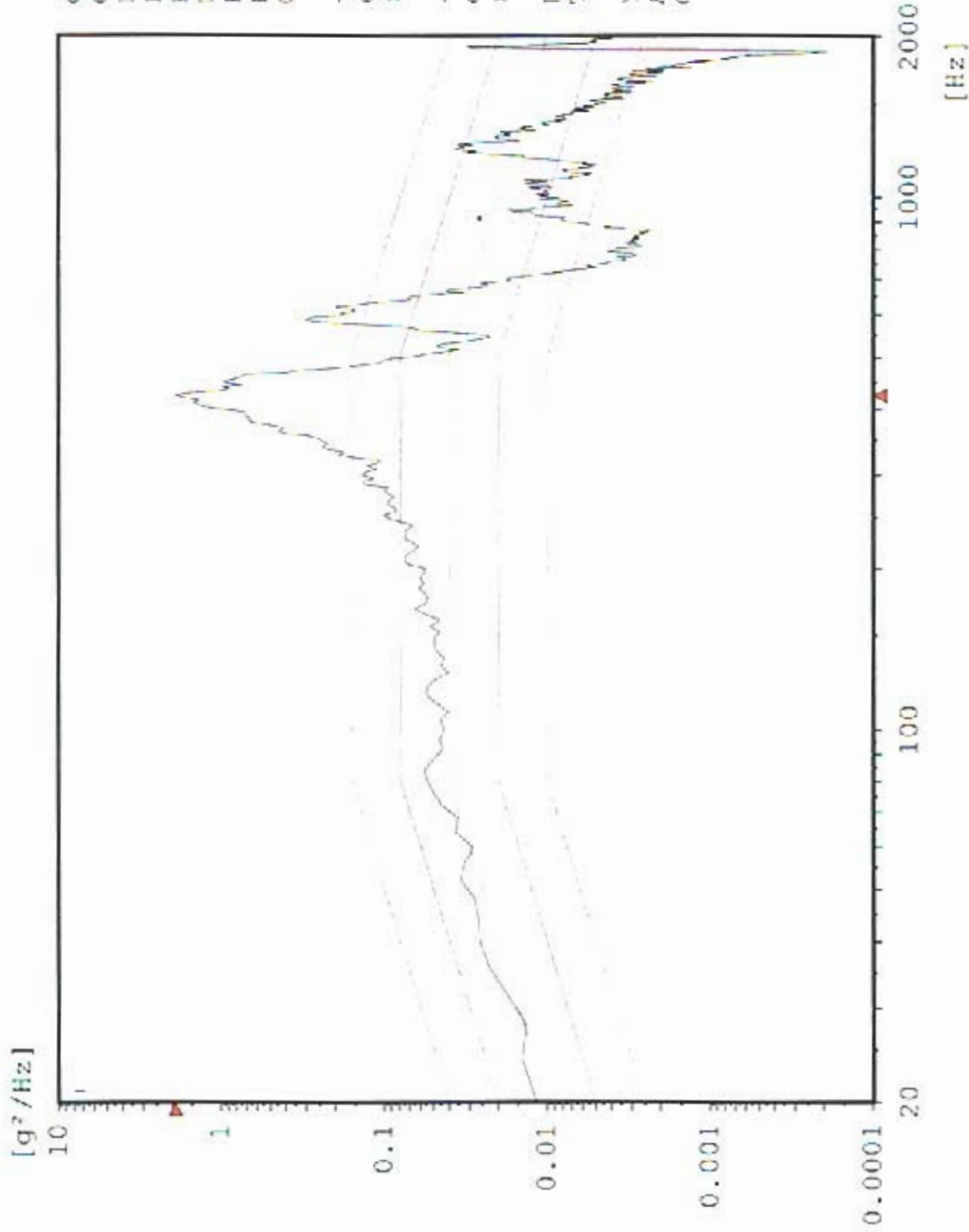
Date: 05-24-05
Time: 12:27:13

Y - Axis
Acceptance Unit
GLAT 1836

Max: 424 Hz 1.916 g²/Hz

Random AY3 TPS Top Center

Stanford Linear Accelerator
J/N 49995.52000
TEM & TPS



Chan.no: 2
Chan.type: M
DOF: 100
Level: 0.0 dB
Resolution: 4 Hz
Unit: g²/Hz
RMS (act.): 12.77 g
RMS (req.): 6.787 g
Contr.strat.: Closed loop

-- Time on act. level --
elapsed: 000:01:00
remaining: 000:00:00

-- Time total --
elapsed: 000:02:53
remaining: 000:00:00

Date: 05-24-05
Time: 12:27:13

Y - Axis
Acceptance Unit
GLAT 1836

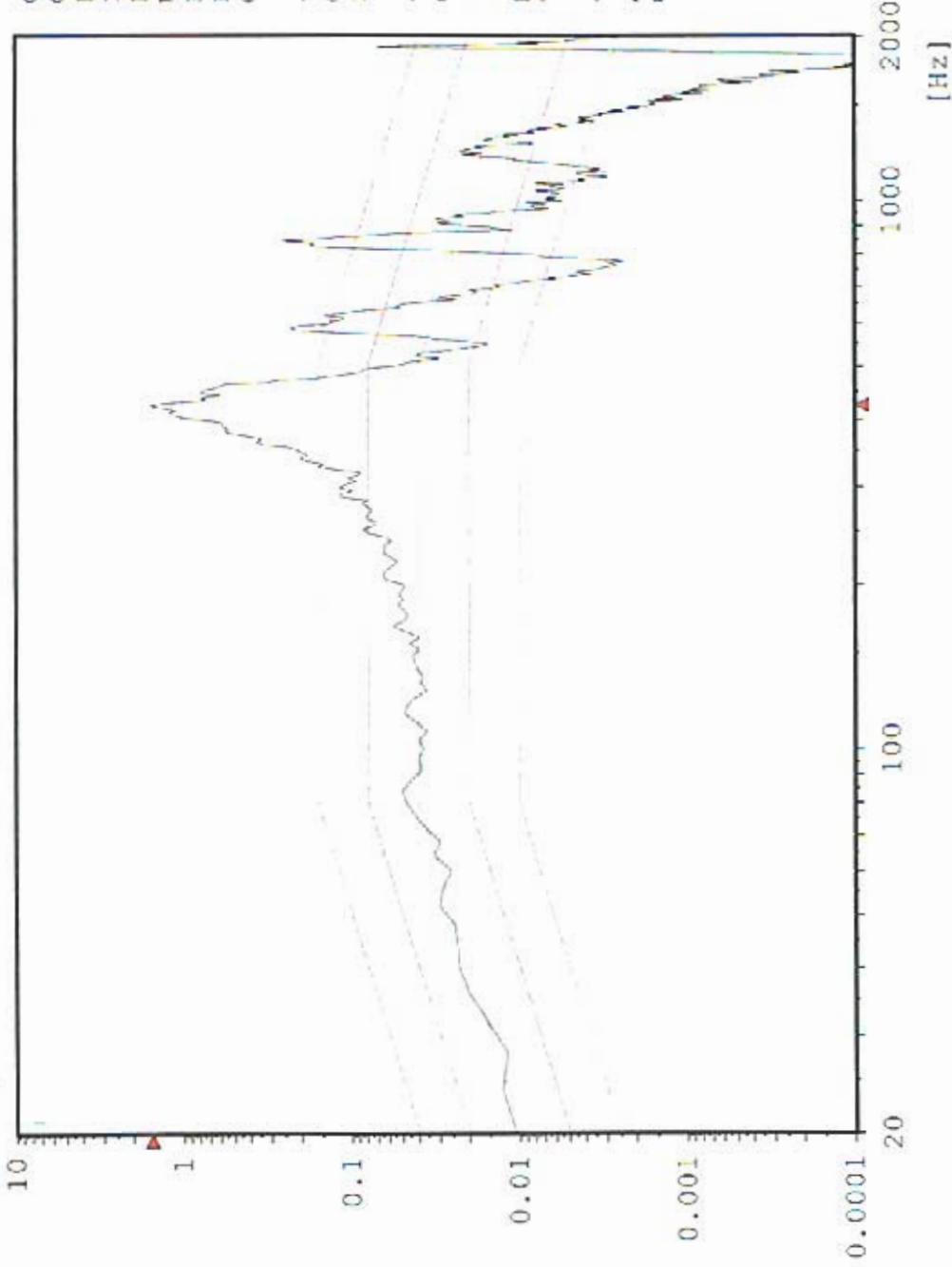
Max: 424 Hz 1.571 g²/Hz

Random AY4 TPS Top Edge

Stanford Linear Accelerator
J/N 49995.52000
TEM & TPS



[g²/Hz]



Chan.no: 3
Chan.type: M
DOF: 100
Level: 0.0 dB
Resolution: 4 Hz
Unit: g²/Hz
RMS (act.): 11.92 g
RMS (req.): 6.787 g
Contr.strat.: Closed loop

-- Time on act. level --
elapsed: 000:01:00
remaining: 000:00:00

-- Time total --
elapsed: 000:02:53
remaining: 000:00:00

Date: 05-24-05
Time: 12:27:13

Y - Axis
Acceptance Unit
GLAT 1836

Max: 424 Hz 0.4752 g²/Hz

Random AY1 TEM Center Edge

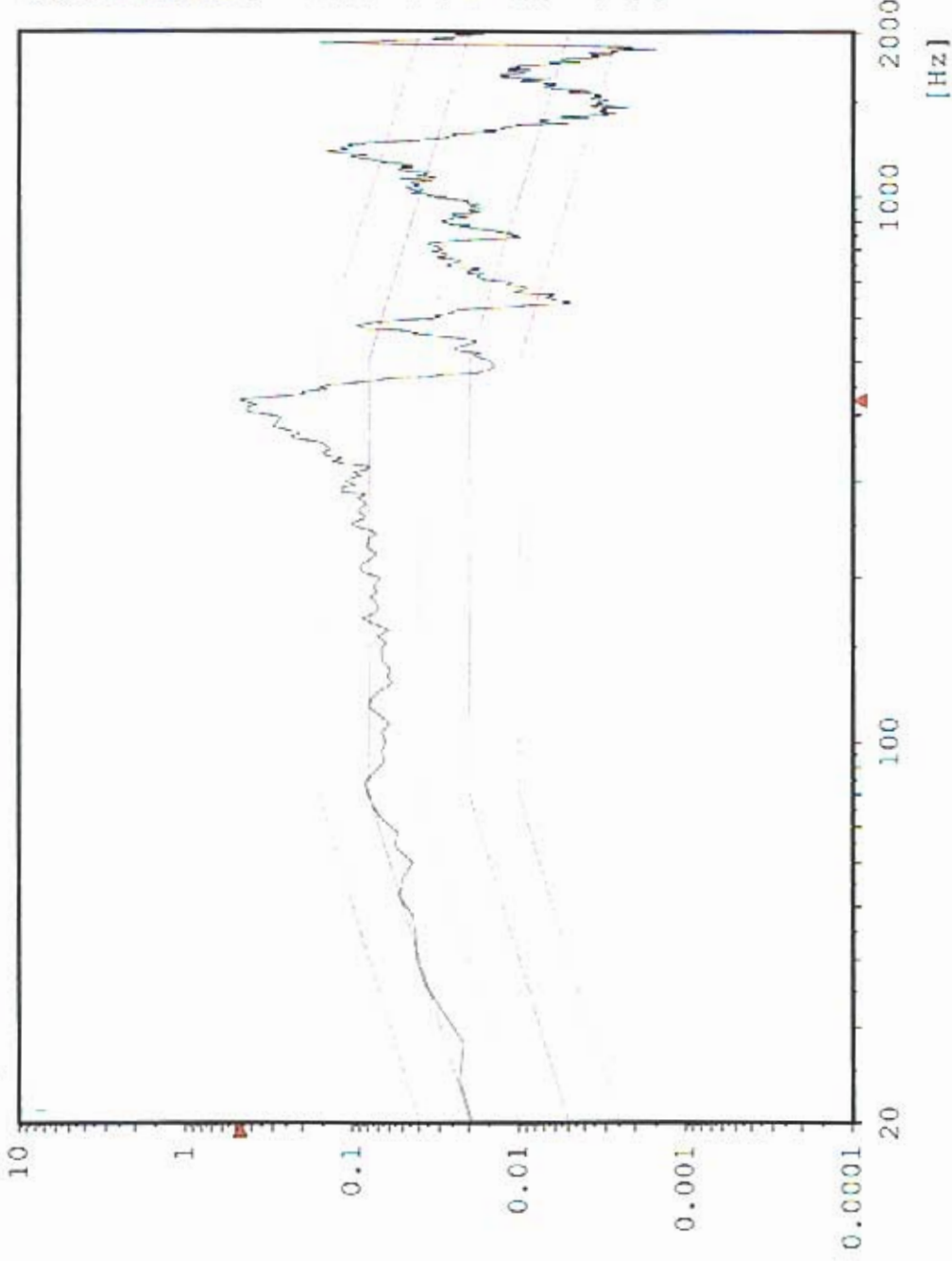
Stanford Linear Accelerator

J/N 49995.52000

TEM & TPS



[g²/Hz]



Chan.no: 5
Chan.type: M
DOF: 100
Level: 0.0 dB
Resolution: 4 Hz
Unit: g²/Hz
RMS (act.): 9.767 g
RMS (req.): 6.787 g
Contr.strat.: Closed loop

-- Time on act. level --
elapsed: 000:01:00
remaining: 000:00:00

-- Time total --
elapsed: 000:02:53
remaining: 000:00:00

Date: 05-24-05
Time: 12:27:13

Y - Axis
Acceptance Unit
GLAT 1836

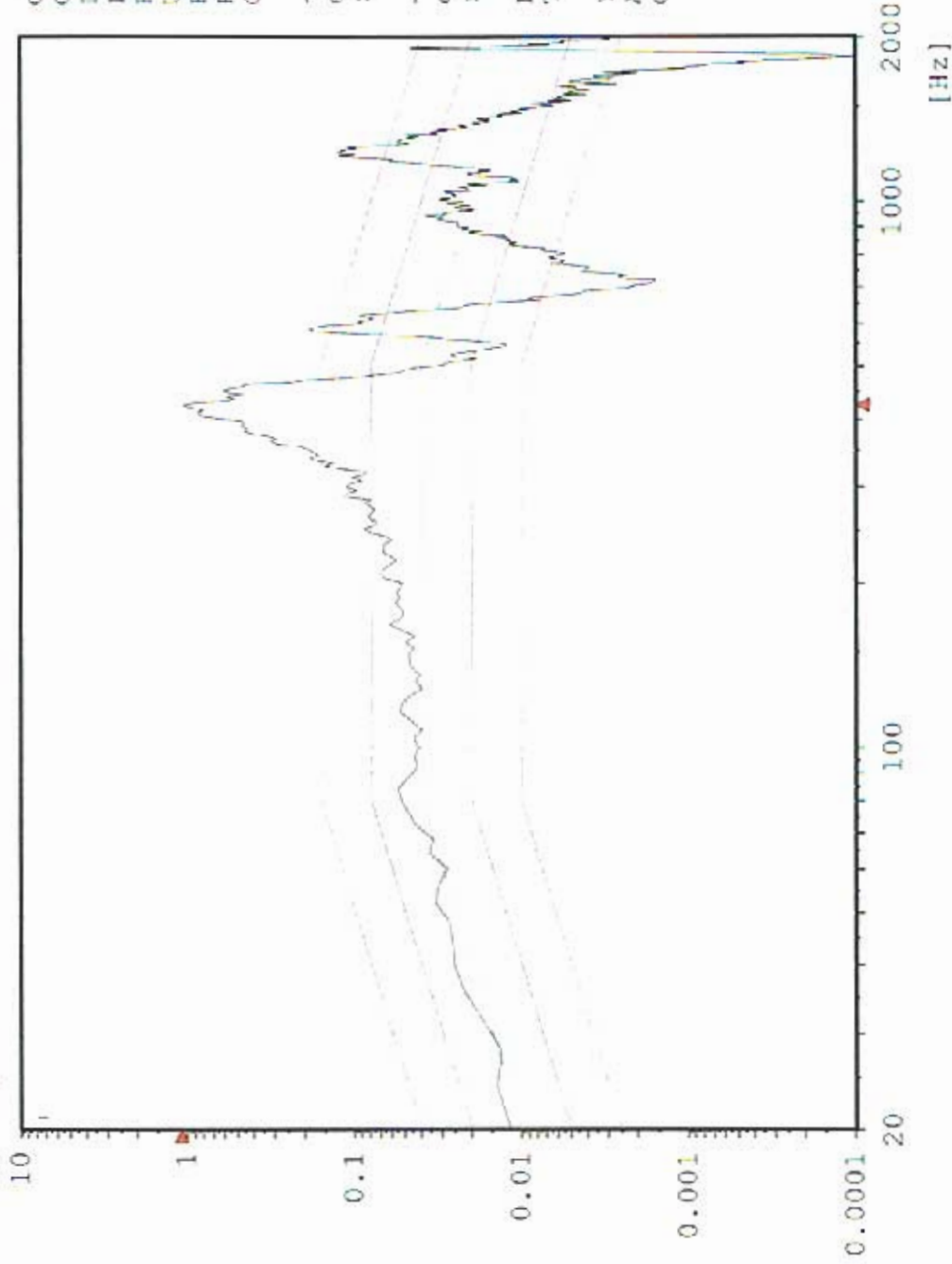
Max: 424 Hz 1.094 g²/Hz

Random AY2 TPS CG

Stanford Linear Accelerator
J/N 49995.52000
TEM & TPS



[g²/Hz]



Chan.no: 10
Chan.type: M
DOF: 100
Level: 0.0 dB
Resolution: 4 Hz
Unit: g²/Hz
RMS (act.): 11.12 g
RMS (req.): 6.787 g
Contr.strat.: Closed loop

-- Time on act. level --
elapsed: 000:01:00
remaining: 000:00:00

-- Time total --
elapsed: 000:02:53
remaining: 000:00:00

Date: 05-24-05
Time: 12:27:13

Y - Axis
Acceptance Unit
GLAT 1836

CY1 Y-Axis Control

Sine
Stanford Linear Accelerator
J/N 49995.52000
TEM / TPS

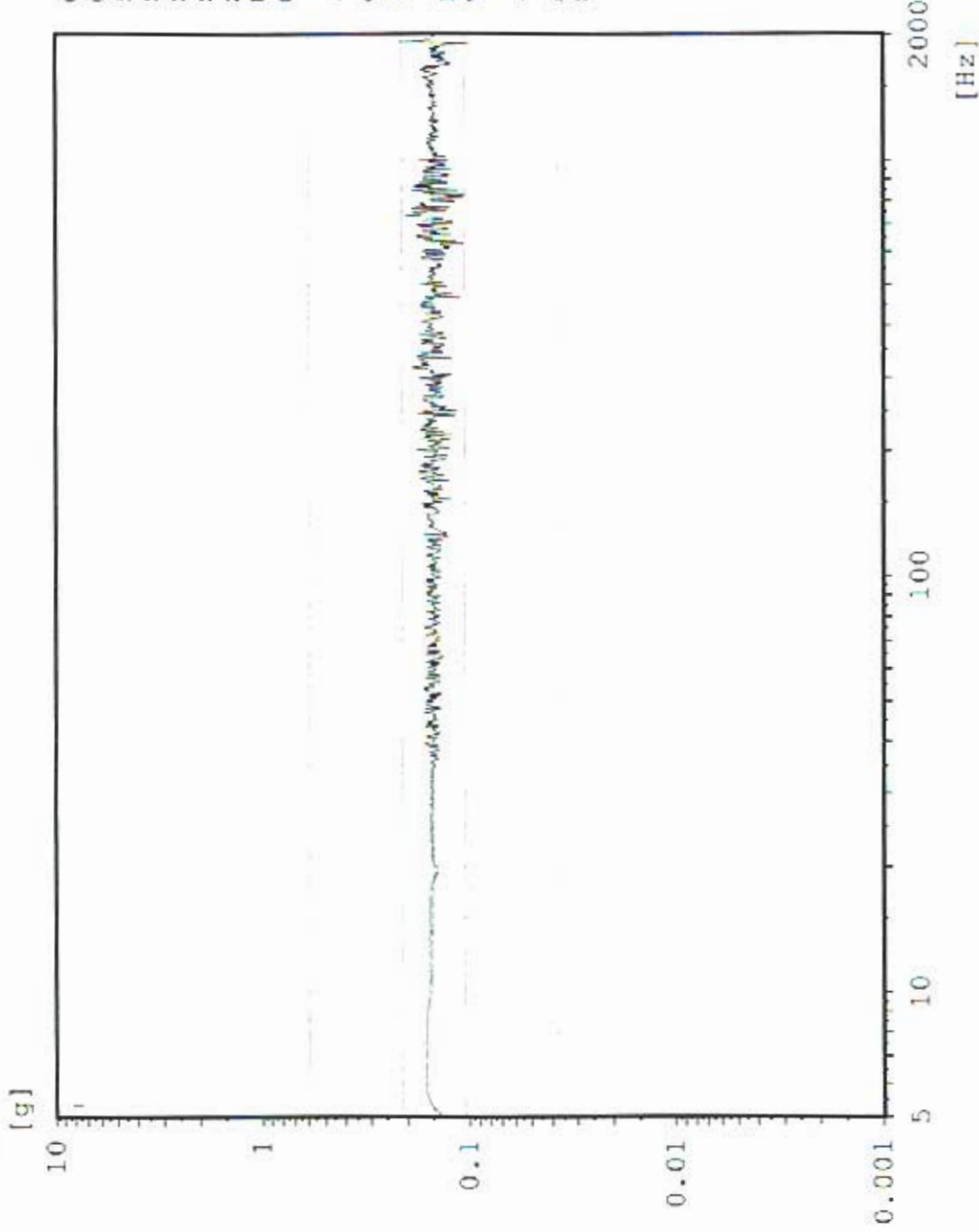


Chan.no: 1
Chan.type: CW Filtered
Sweep type: logarithmic
Sweeps done: 1
Sweeps req.: 1
Sweep direct.: up
Sweep rate: 2.00 Oct/min
Unit: g
Contr.strat.: Closed loop

-- Testing time --
elapsed: 000:04:18
remaining: 000:00:00

Date: 05-24-05
Time: 12:36:15

Y - axis Post Random
Acceptance Unit
GLAT 1836



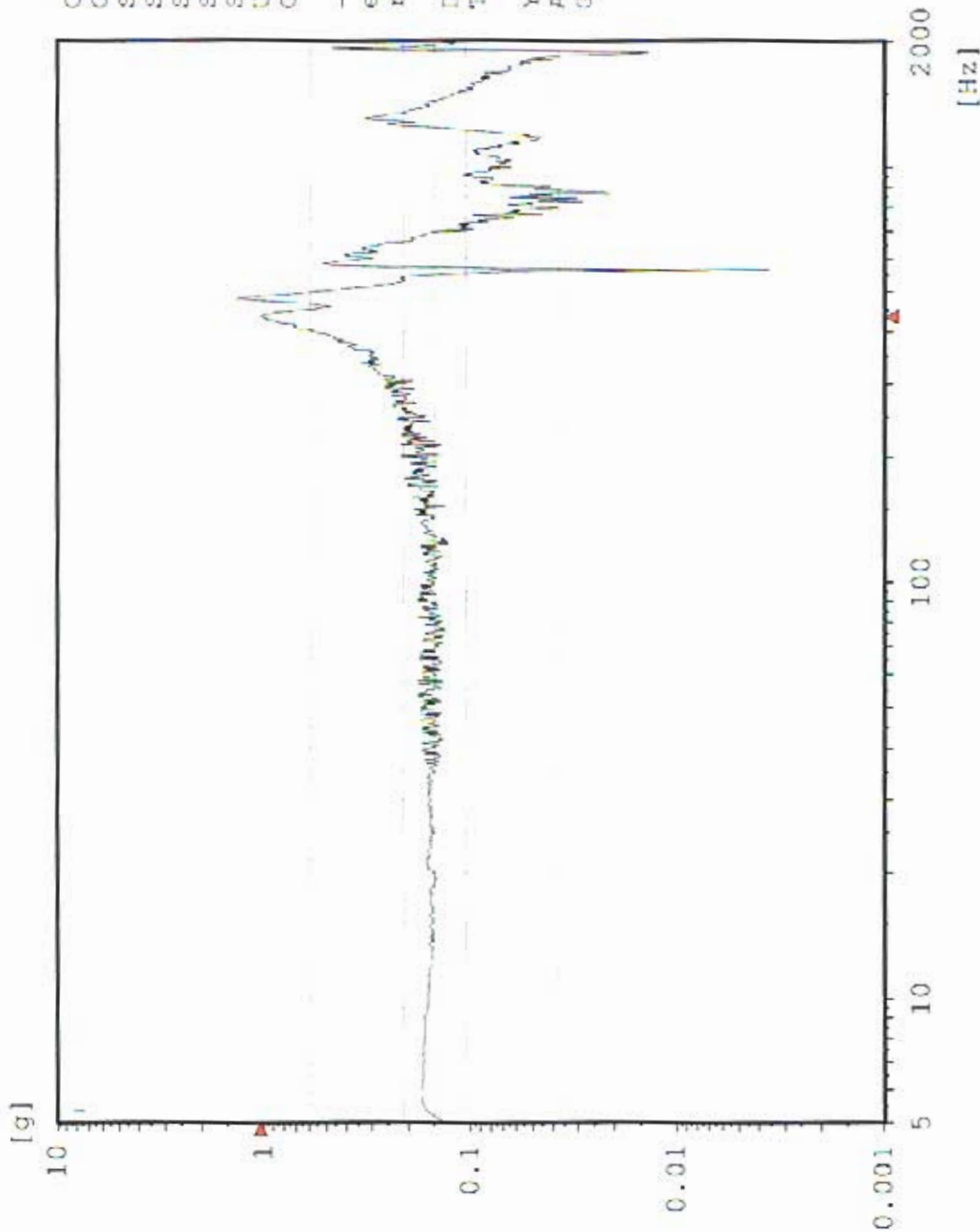
AY3 TPS Top Center

Sine

Stanford Linear Accelerator

J/N 49995.52000

TEM / TPS



Chan.no: 2 M Filtered
 Chan.type: logarithmic
 Sweep type: logarithmic
 Sweeps done: 1
 Sweeps req.: 1
 Sweep direct.: up
 Sweep rate: 2.00 Oct/min
 Unit: g
 Contr.strat.: Closed loop

-- Testing time --
 elapsed: 000:04:18
 remaining: 000:00:00

Date: 05-24-05
 Time: 12:36:15

Y - axis Post Random
 Acceptance Unit
 GLAT 1836

AY4 TPS Top Edge

Sine
Stanford Linear Accelerator
J/N 43995.52000
TEM / TPS

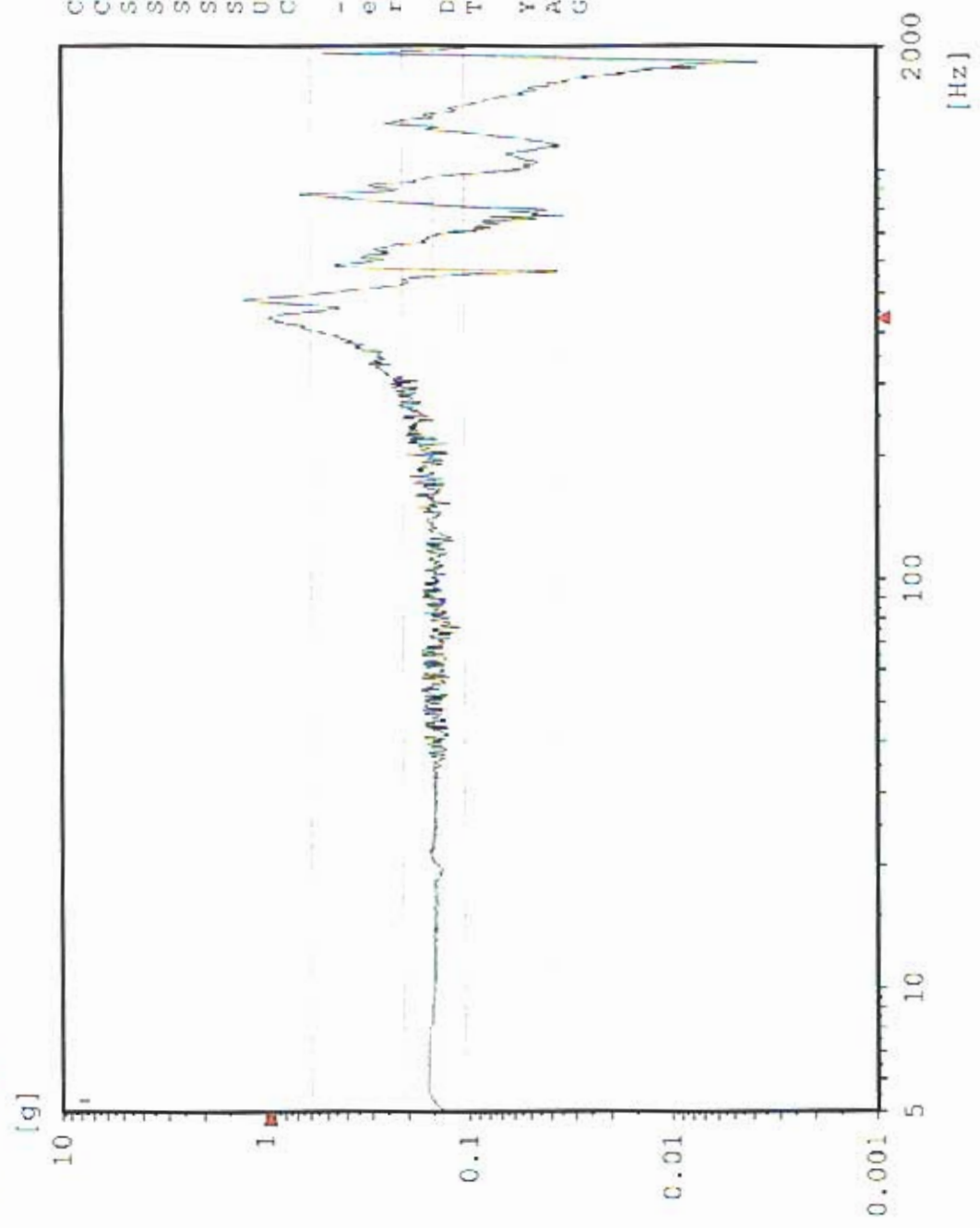


Chan.no: 3
Chan.type: M Filtered
Sweep type: logarithmic
Sweeps done: 1
Sweeps req.: 1
Sweep direct.: up
Sweep rate: 2.00 Oct/min
Unit: g
Contr.strat.: Closed loop

-- Testing time --
elapsed: 000:04:18
remaining: 000:00:00

Date: 05-24-05
Time: 12:36:15

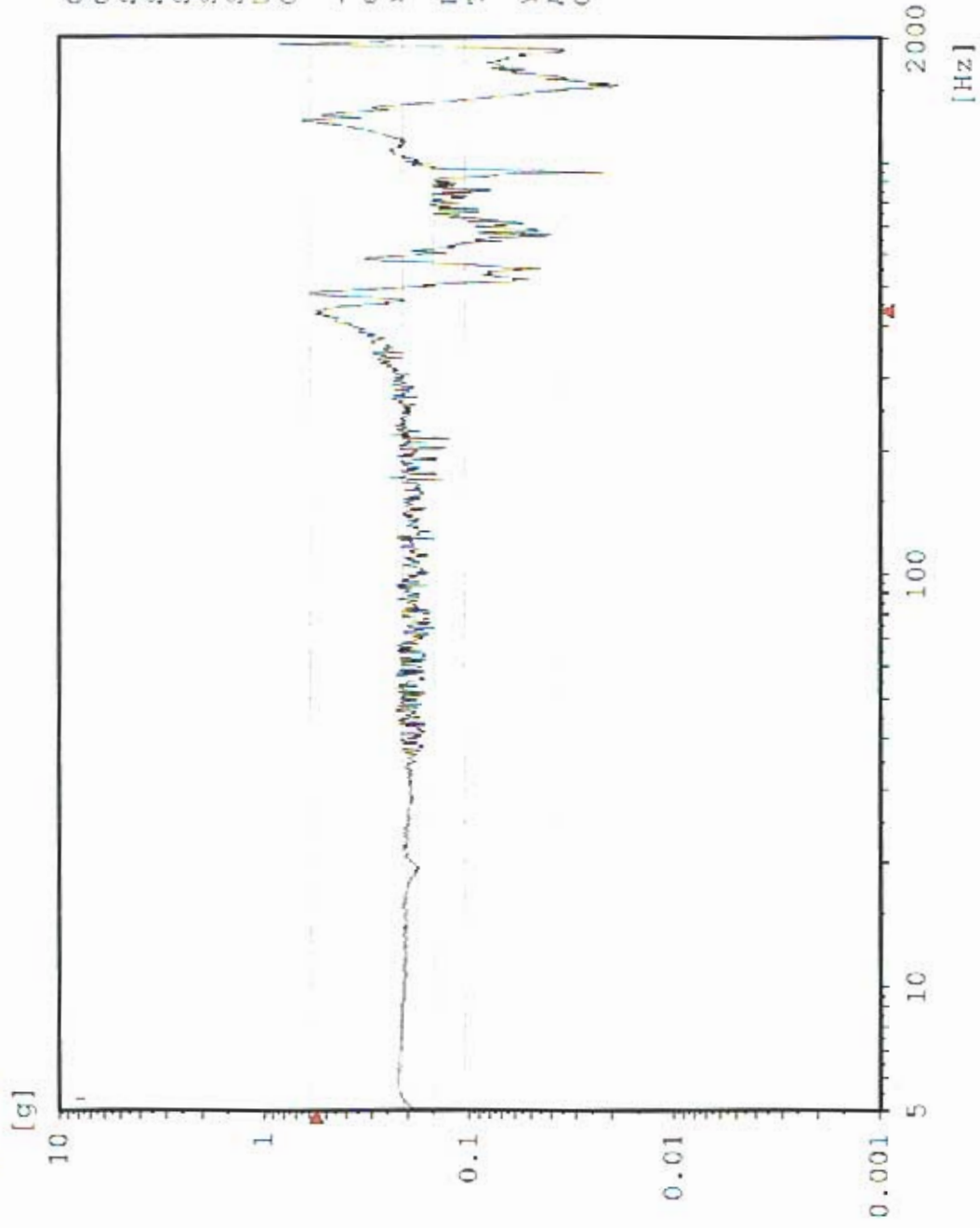
Y - axis Post Random
Acceptance Unit
GLAT 1836



Cursor: 433.7 Hz 0.5593 g

Sine AY1 TEM Center Edge

Stanford Linear Accelerator
J/N 49995.52000
TEM / TPS



Chan.no: 5
Chan.type: M Filtered
Sweep type: logarithmic
Sweeps done: 1
Sweeps req.: 1
Sweep direct.: up
Sweep rate: 2.00 Oct/min
Unit: g
Contr.strat.: Closed loop

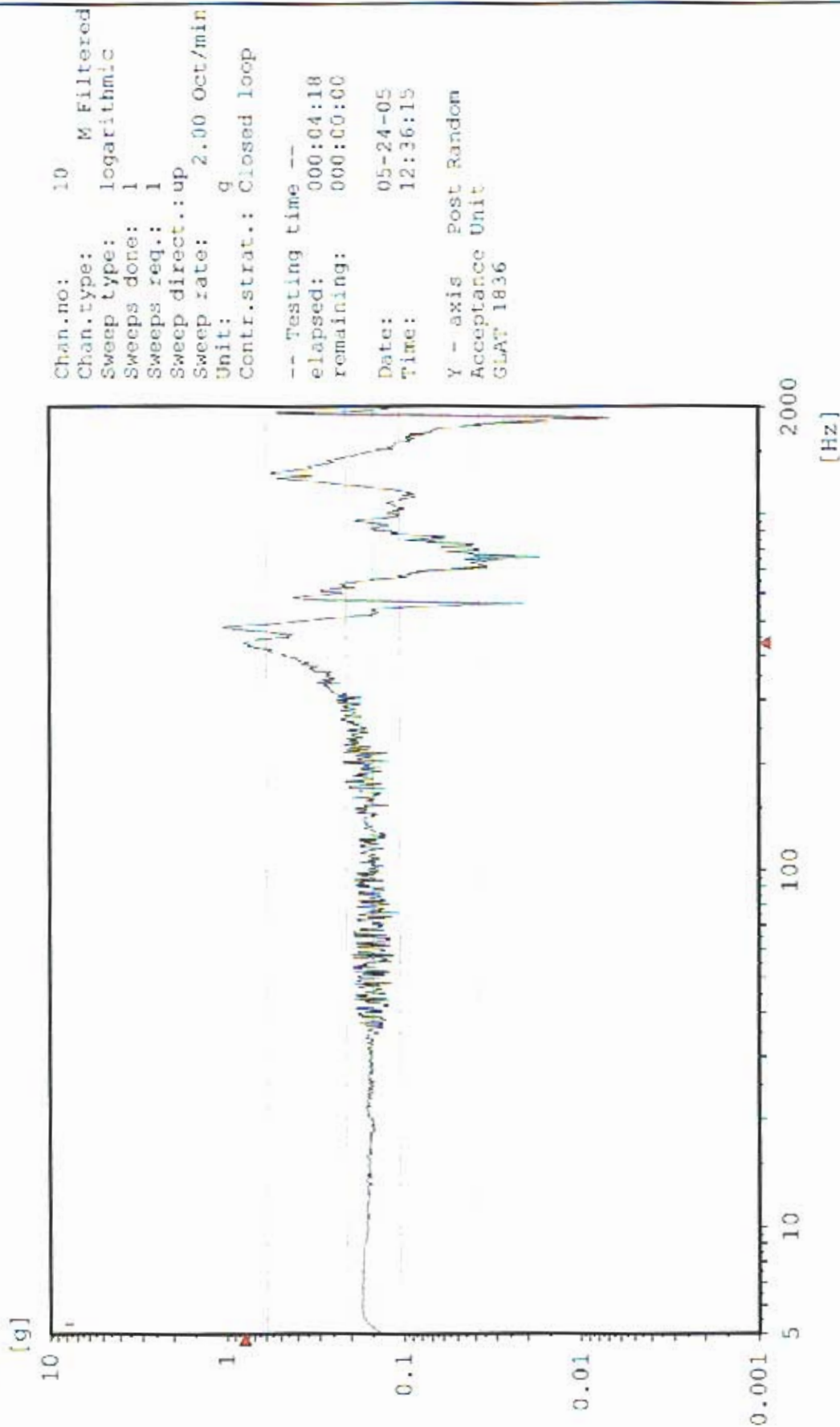
-- Testing time --
elapsed: 000:04:18
remaining: 000:09:00

Date: 05-24-05
Time: 12:36:15

Y - axis Post Random
Acceptance Unit
GLAT 1836

Sine AY2 TPS CG

Stanford Linear Accelerator
J/N 49995.52000
TEM / TPS



Chan.no: 10
 Chan.type: M Filtered
 Sweep type: logarithmic
 Sweeps done: 1
 Sweeps req.: 1
 Sweep direct.: up
 Sweep rate: 2.00 Oct/min
 Unit: g
 Contr.strat.: Closed loop

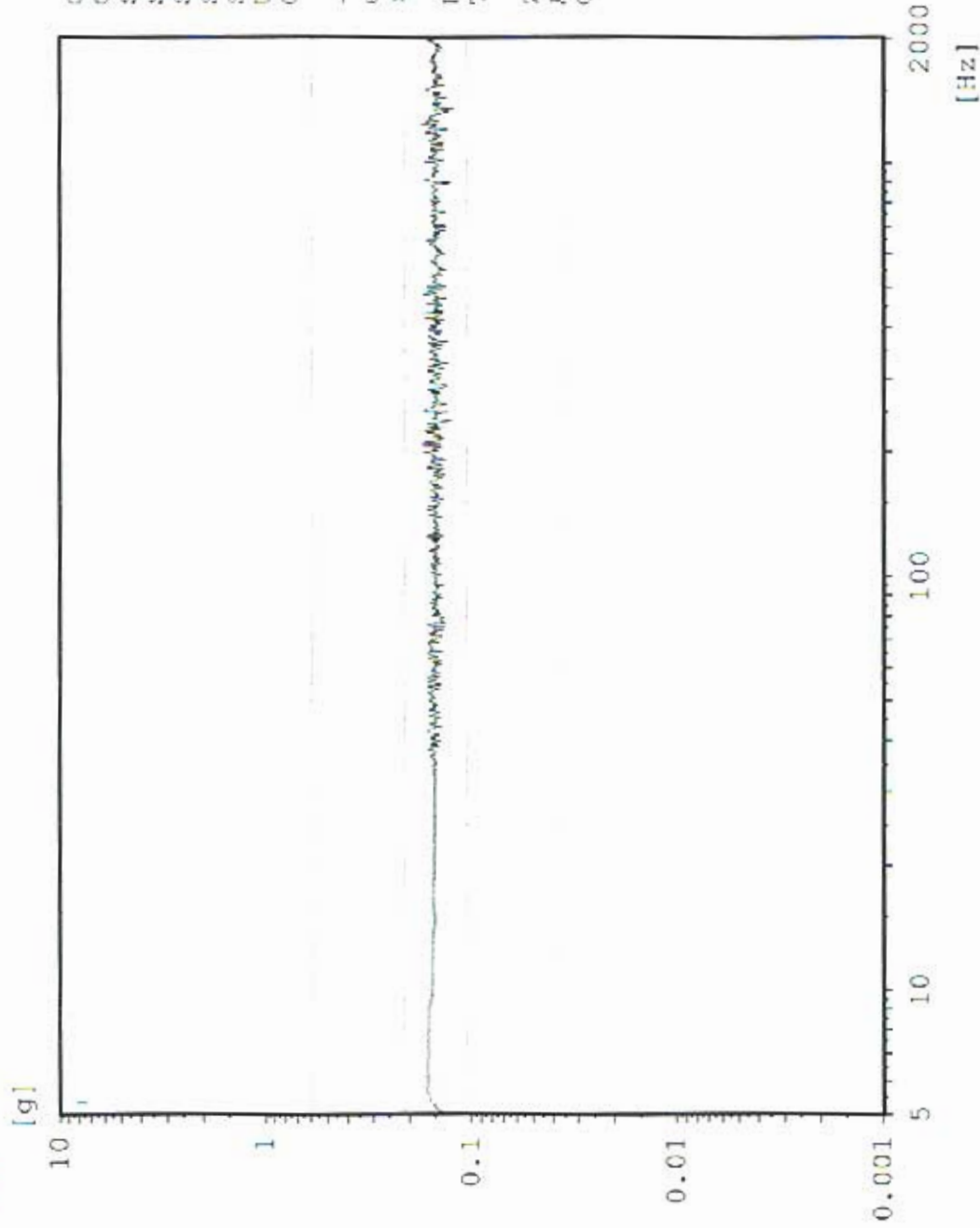
-- Testing time --
 elapsed: 000:04:18
 remaining: 000:00:00

Date: 05-24-05
 Time: 12:36:15

Y - axis Post Random
 Acceptance Unit
 GLAT 1836

Sine CZ1 Z-Axis Control

Stanford Linear Accelerator
J/N 49995.52000
TEM / TPS



Chan.no: 1
Chan.type: CW Filtered
Sweep type: logarithmic
Sweeps done: 1
Sweeps req.: 1
Sweep direct.: up
Sweep rate: 2.00 Oct/min
Unit: g
Contr.strat.: Closed loop

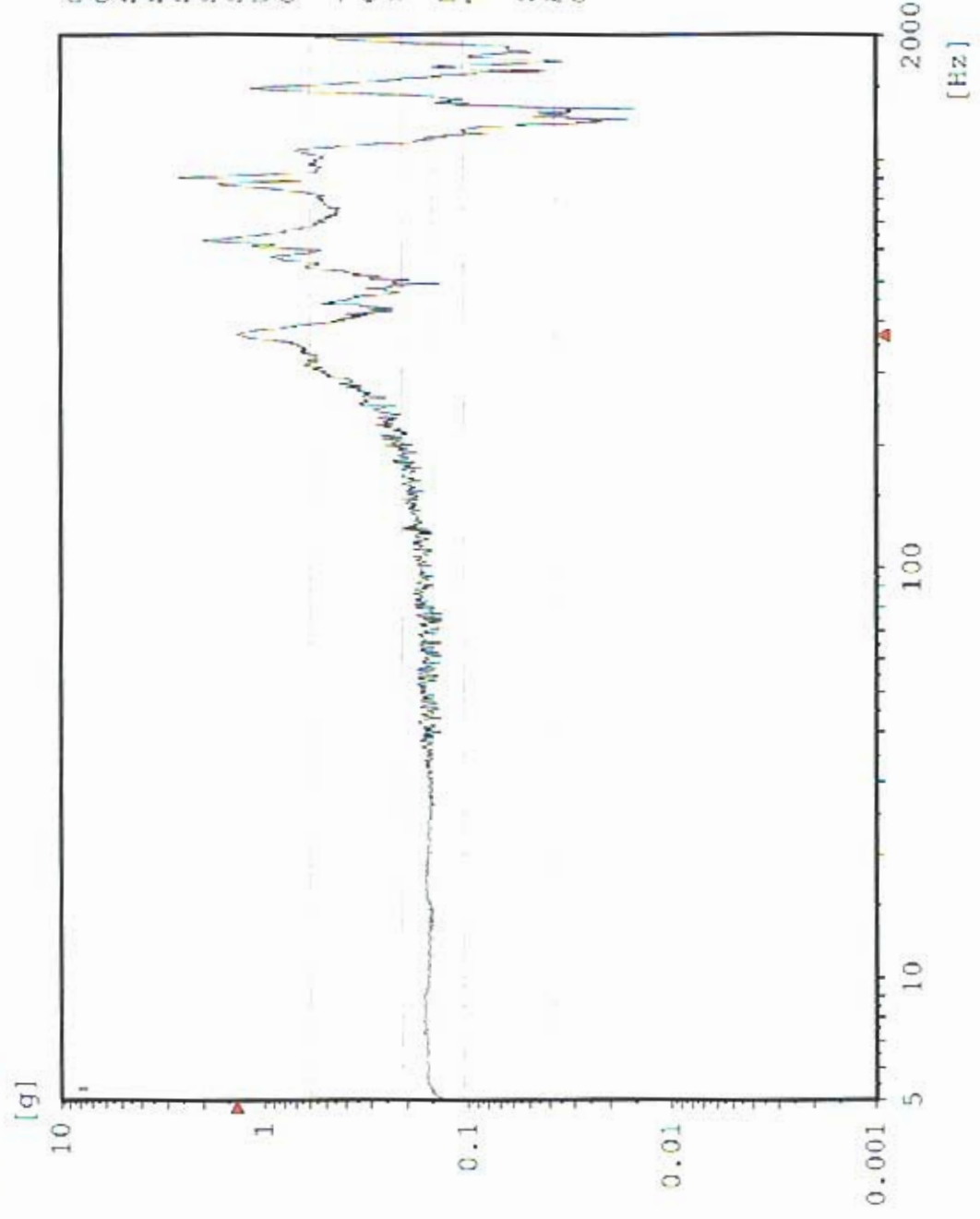
-- Testing time --
elapsed: 000:04:18
remaining: 000:00:00

Date: 05-24-05
Time: 16:56:01

Z - axis Pre Random
Acceptance Unit
GLAT 1836

AZ4 TPS Boss 2

Sine
Stanford Linear Accelerator
J/N 49995.52000
TEX / TPS



Chan.no: 2
 Chan.type: M Filtered
 Sweep type: logarithmic
 Sweeps done: 1
 Sweeps req.: 1
 Sweep direct.: up
 Sweep rate: 2.00 Oct/min
 Unit: g
 Contr.strat.: Closed loop

-- Testing time --
 elapsed: 000:04:18
 remaining: 000:00:00
 Date: 05-24-05
 Time: 16:56:01

Z - axis Pre Random
 Acceptance Unit
 GLAT 1836

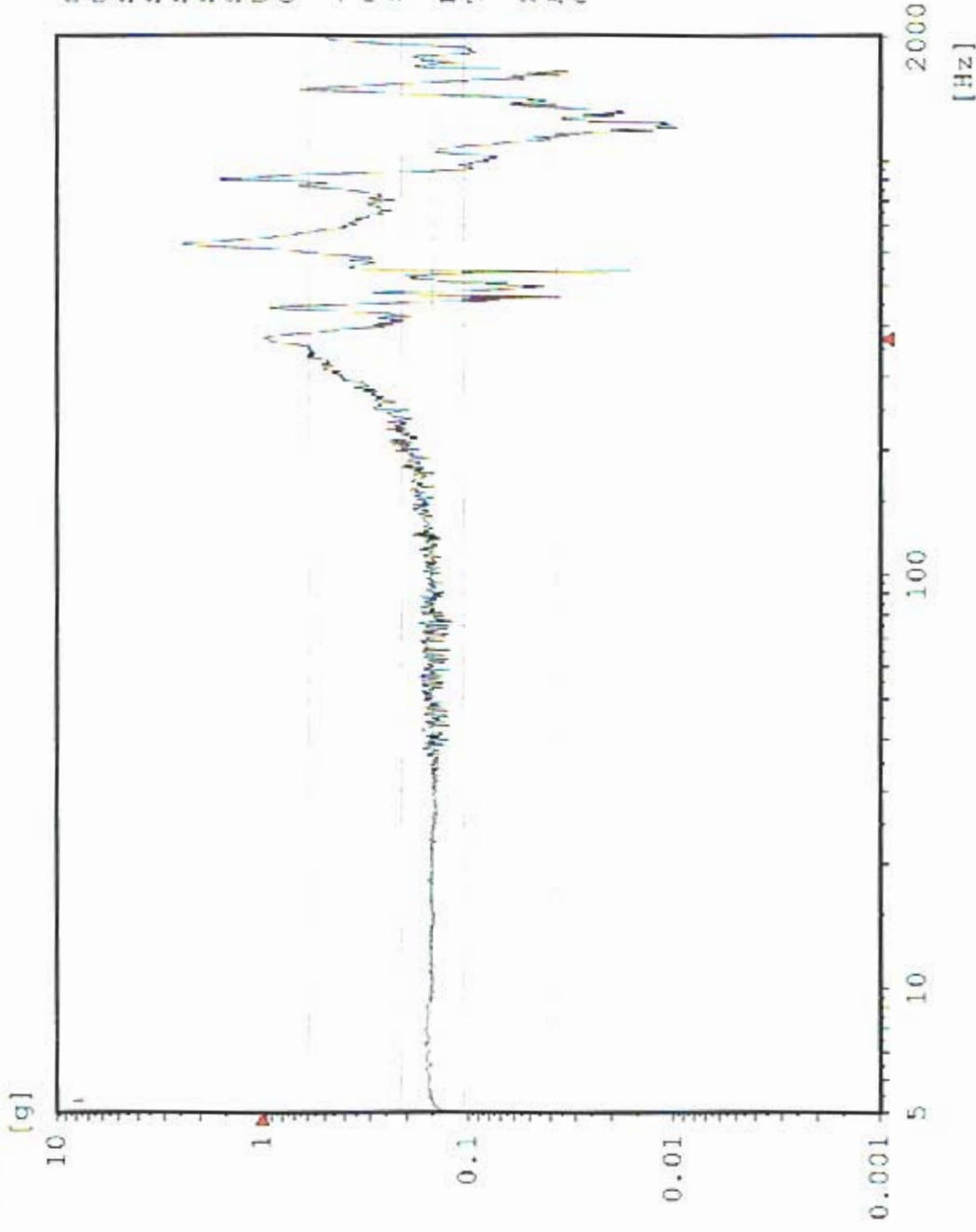
AZ3 TPS Boss 1

Sine

Stanford Linear Accelerator

J/N 49995.52000

TEM / TPS



Chan.no: 3
 Chan.type: M Filtered
 Sweep type: logarithmic
 Sweeps done: 1
 Sweeps req.: 1
 Sweep direct.: up
 Sweep rate: 2.00 Oct/min
 Unit: g
 Contr.strat.: Closed loop

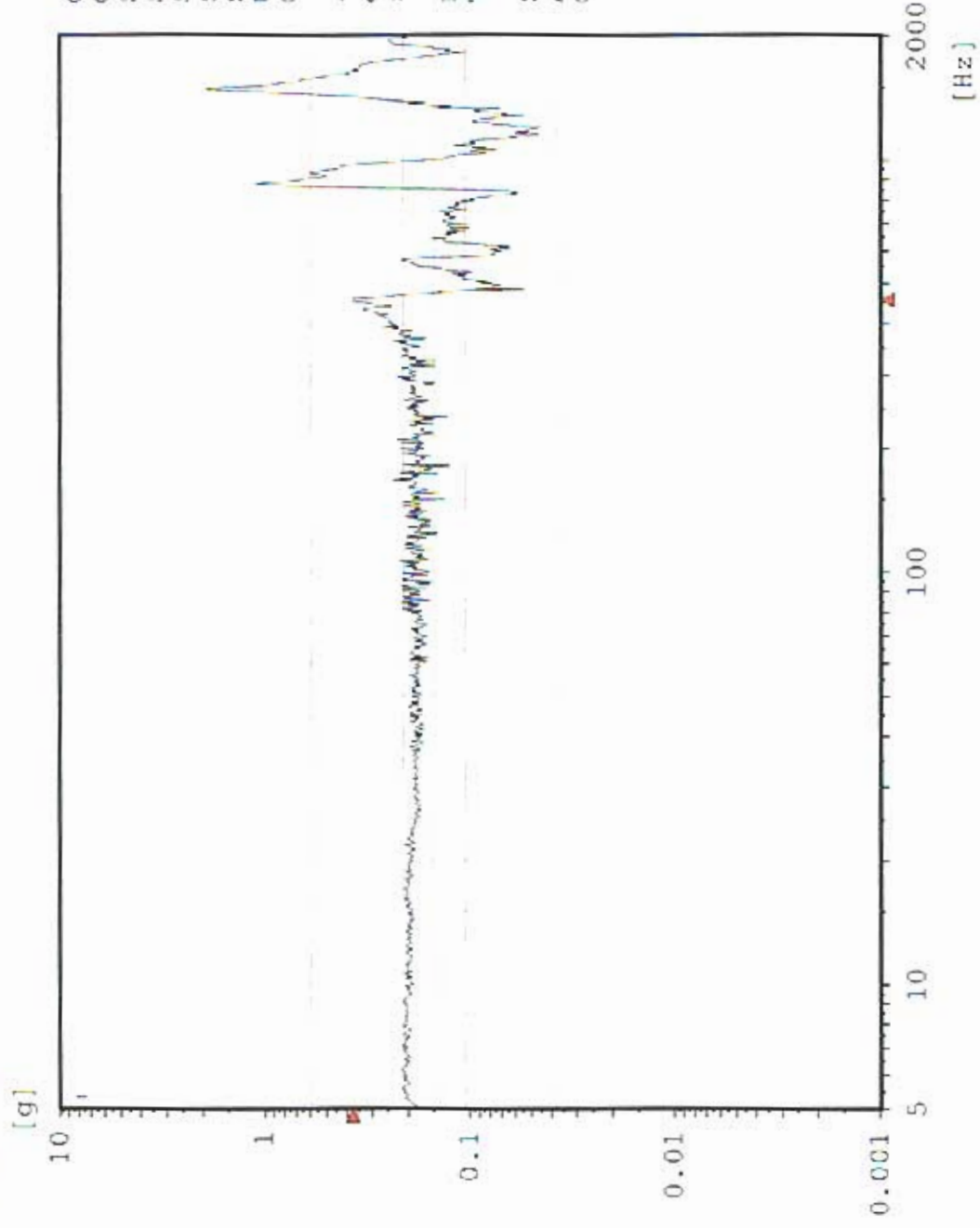
-- Testing time --
 elapsed: 000:04:18
 remaining: 000:00:00

Date: 05-24-05
 Time: 16:56:01

Z - axis Pre Random
 Acceptance Unit
 GLAT 1836

AZ5 TEM Bottom Edge

Sine
Stanford Linear Accelerator
J/N 49995.52000
TEM / TPS



Chan.no: 5
 Chan.type: M Filtered
 Sweep type: logarithmic
 Sweeps done: 1
 Sweeps req.: 1
 Sweep direct.: up
 Sweep rate: 2.00 Oct/min
 Unit: g
 Contr.strat.: Closed loop

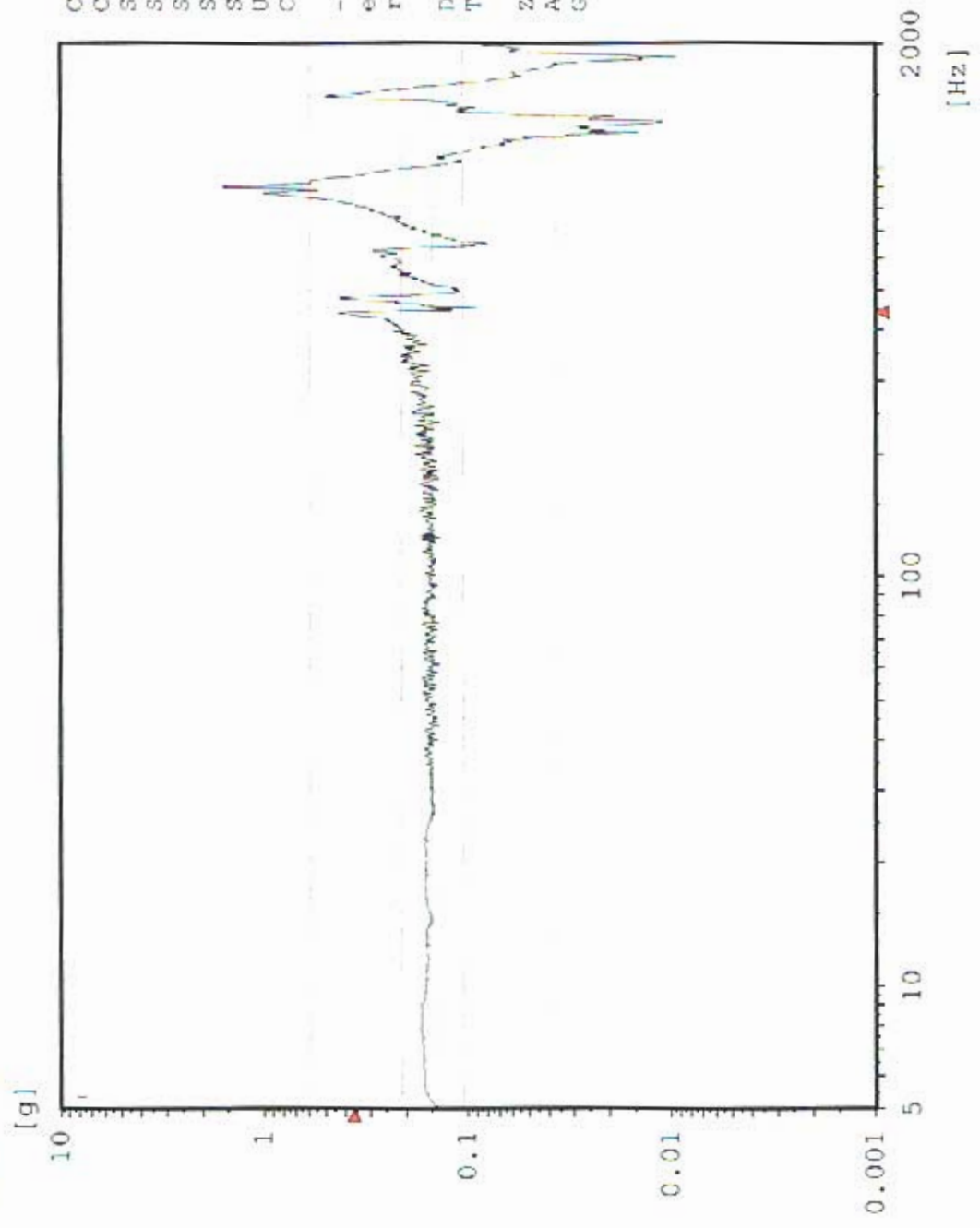
-- Testing time --
 elapsed: 000:04:18
 remaining: 000:00:00

Date: 05-24-05
 Time: 16:56:01

Z - axis Pre Random
 Acceptance Unit
 GLAT 1836

AZ1 TPS Edge Center

Sine
Stanford Linear Accelerator
J/N 49995.52000
TEM / TPS



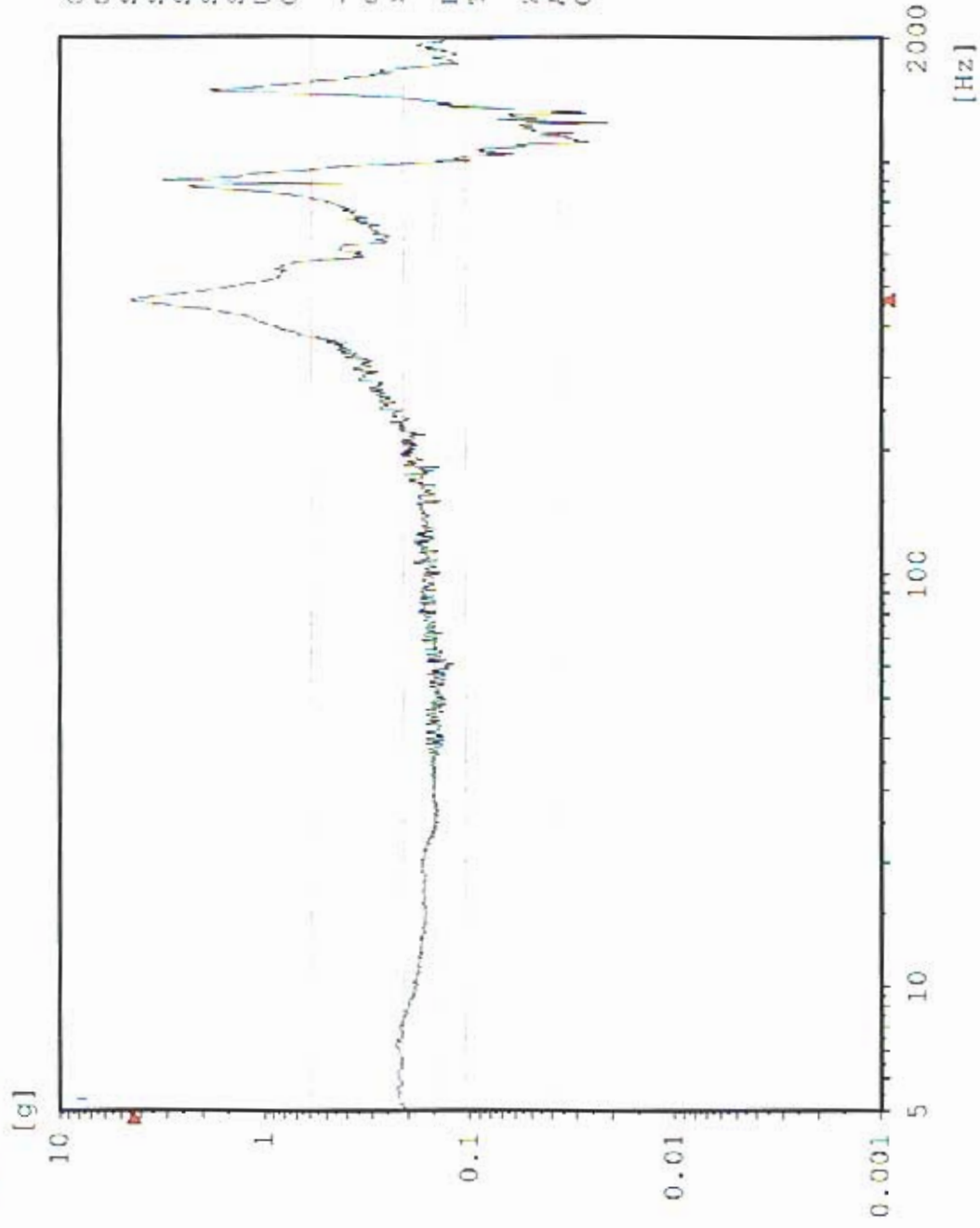
Chan.no: 6
 Chan.type: M Filtered
 Sweep type: logarithmic
 Sweeps done: 1
 Sweeps req.: 1
 Sweep direct.: up
 Sweep rate: 2.00 Oct/min
 Unit: g
 Contr.strat.: Closed loop

-- Testing time --
 elapsed: 000:04:18
 remaining: 000:00:00
 Date: 05-24-05
 Time: 16:56:01

Z - axis Pre Random
 Acceptance Unit
 GLAT 1836

Sine AZ6 TEM Bottom Center

Stanford Linear Accelerator
J/N 49995.52000
TEM / TPS



Chan.no: 8
 Chan.type: K Filtered
 Sweep type: logarithmic
 Sweeps done: 1
 Sweeps req.: 1
 Sweep direct.: up
 Sweep rate: 2.00 Oct/min
 Unit: g
 Contr.strat.: Closed loop

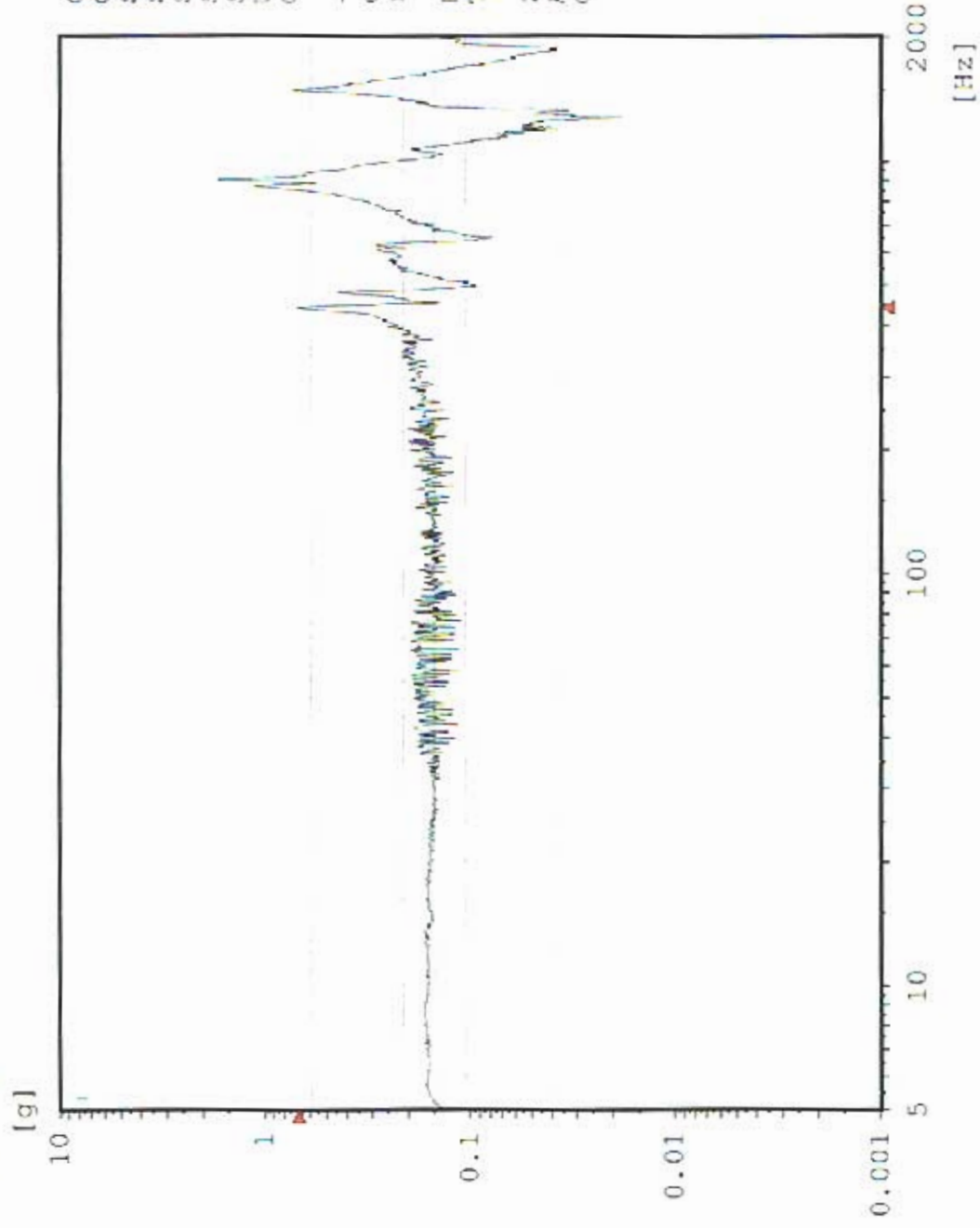
-- Testing time --
 elapsed: 000:04:18
 remaining: 000:00:00

Date: 05-24-05
 Time: 16:56:01

Z - axis Pre Random
 Acceptance Unit
 GLAT 1836

AZ2 TPS Corner

Sine
Stanford Linear Accelerator
J/N 49995.52000
TEM / TPS



Chan.no: 10
 Chan.type: M Filtered
 Sweep type: logarithmic
 Sweeps done: 1
 Sweeps req.: 1
 Sweep direct.: up
 Sweep rate: 2.00 Oct/min
 Unit: g
 Contr.strat.: Closed loop

-- Testing time --
 elapsed: 000:04:18
 remaining: 000:09:00

Date: 05-24-05
 Time: 16:56:01

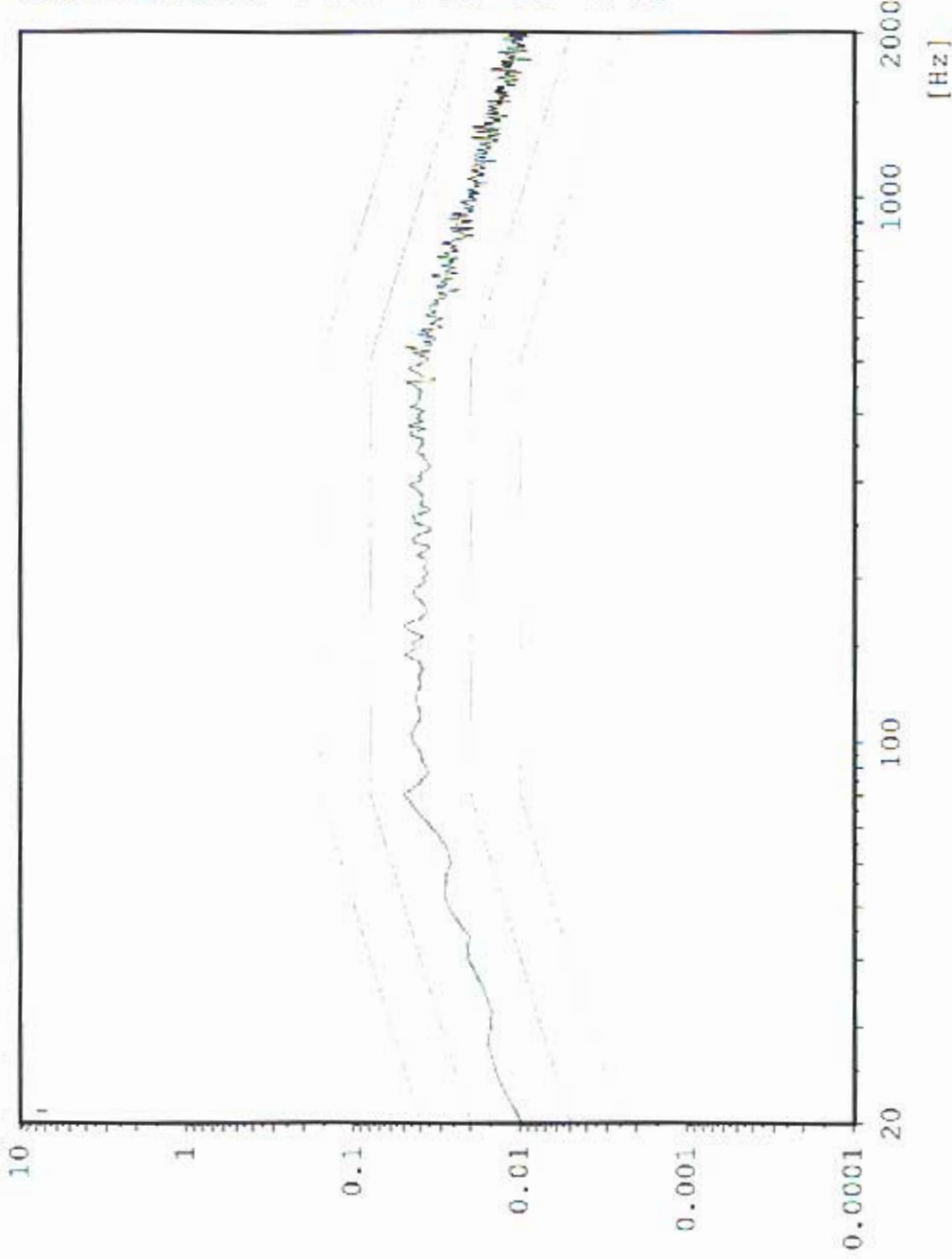
Z - axis Pre Random
 Acceptance Unit
 GLAT 1836

CZ1 Z-Axis Control

Random
Stanford Linear Accelerator
J/N 49995.52000
TEM & TPS



[g²/Hz]



Chan.no: 1
Chan.type: C
DOF: 126
Level: 0.0 dB
Resolution: 4 Hz
Unit: g²/Hz
RMS (act.): 6.844 g
RMS (req.): 6.787 g
Contr.strat.: Closed loop

-- Time on act. level --
elapsed: 000:01:01
remaining: 000:00:-1

-- Time total --
elapsed: 000:02:55
remaining: 000:00:-1

Date: 05-24-05
Time: 17:06:40

Z - Axis
Acceptance Unit
GLAT 1836

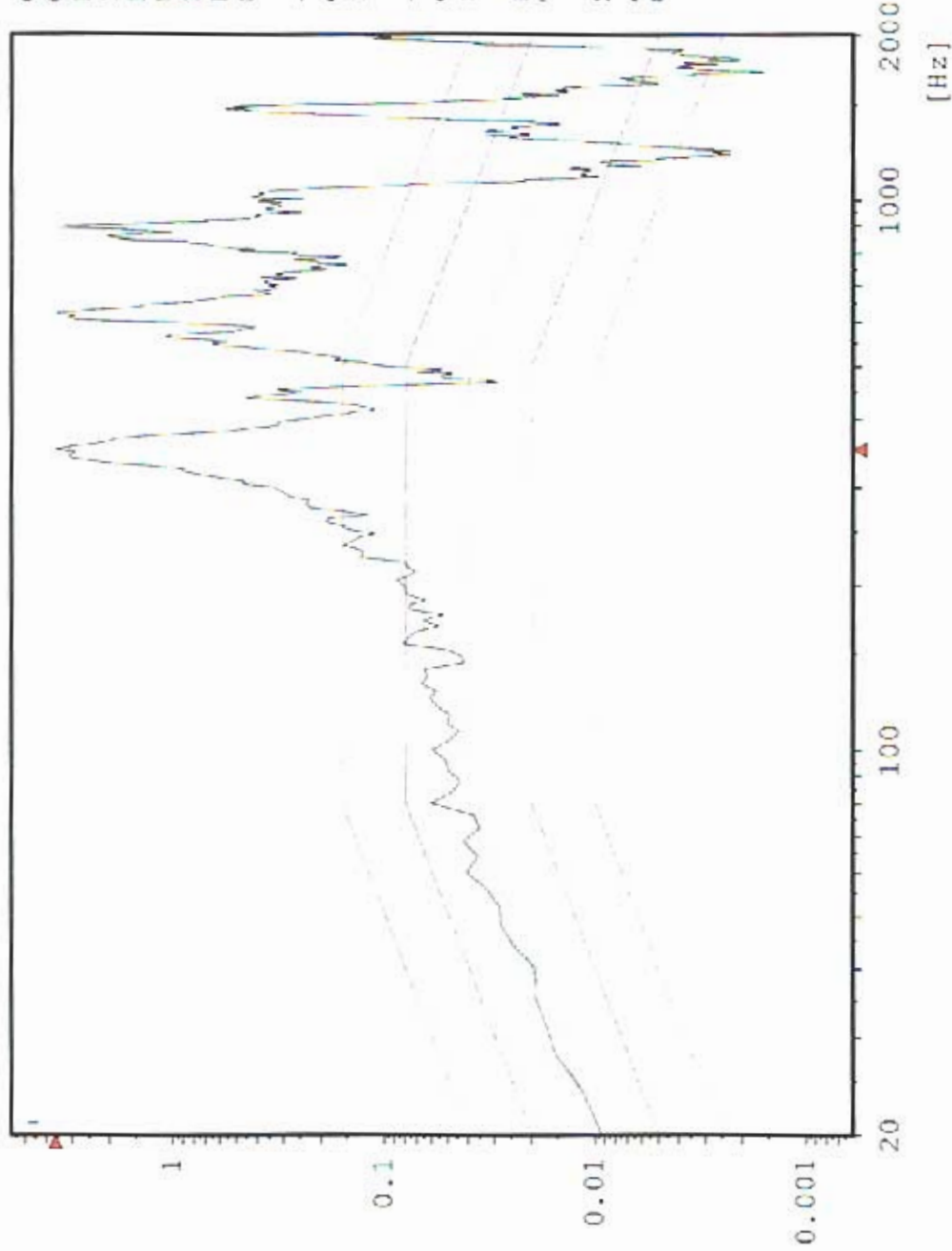
Max: 352 Hz 3.623 g²/Hz

Random AZ4 TPS Boss 2

Random
Stanford Linear Accelerator
J/N 49995.52000
TEM & TPS



[g²/Hz]



Chan.no: 2
Chan.type: M
DCF: 100
Level: 0.0 dB
Resolution: 4 Hz
Unit: g²/Hz
RMS (act.): 25.65 g
RMS (req.): 6.787 g
Contr.strat.: Closed loop

-- Time on act. level --
elapsed: 000:01:01
remaining: 000:09:-1

-- Time total --
elapsed: 000:02:55
remaining: 000:00:-1

Date: 05-24-05
Time: 17:06:40

Z - Axis
Acceptance Unit
GLAT 1836

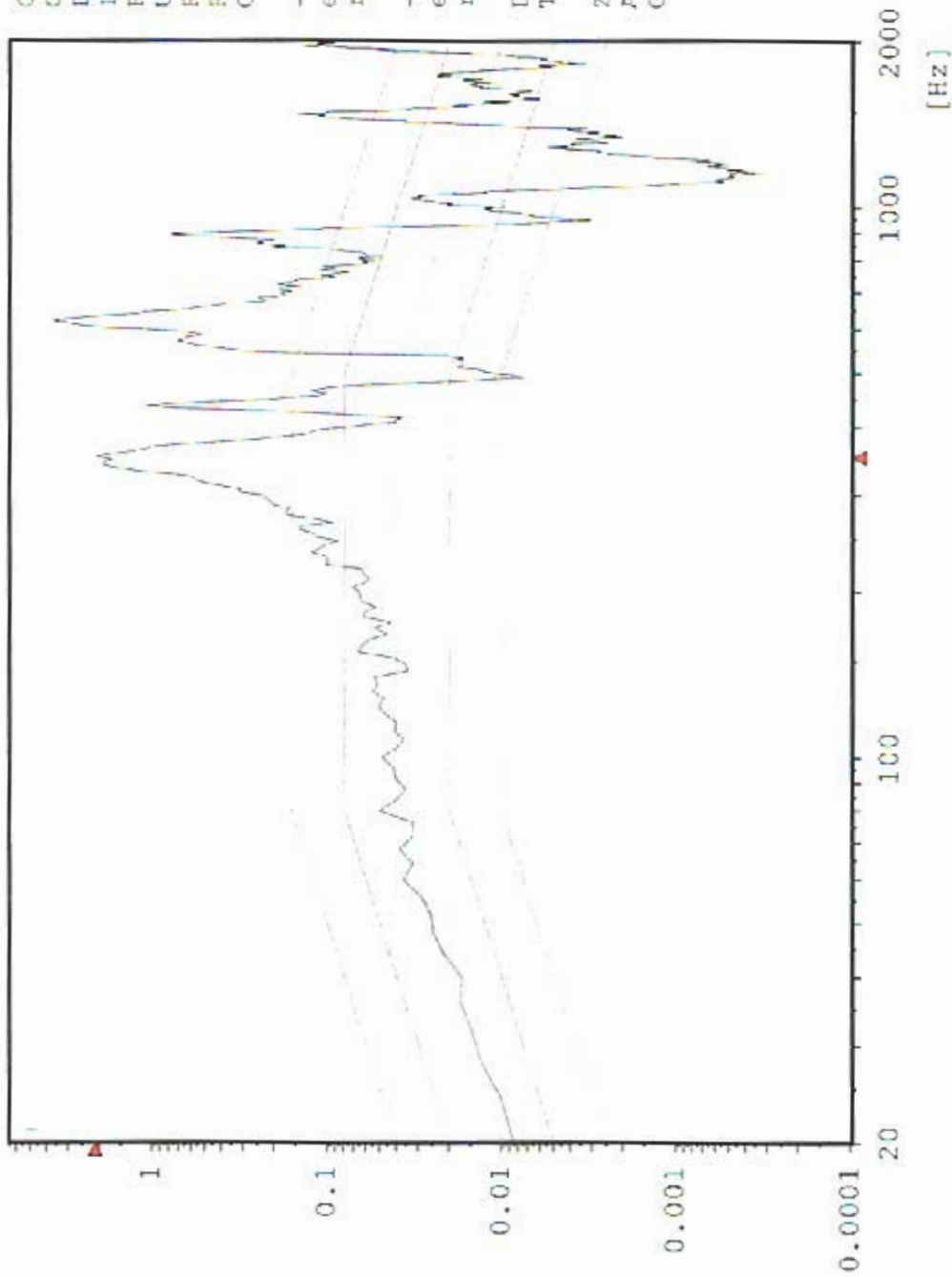
CURSOR: 352 Hz 2.115 g²/Hz

Random AZ3 TPS Boss 1

Stanford Linear Accelerator
J/N 49995.52000
TEM & TPS



[g²/Hz]



Chan.no: 3
Chan.type: M
DOF: 100
Level: 0.0 dB
Resolution: 4 Hz
Unit: g²/Hz
RMS (act.): 18.55 g
RMS (req.): 6.787 g
Contr.strat.: Closed loop

-- Time on act. level --
elapsed: 000:01:01
remaining: 000:00:-1

-- Time total --
elapsed: 000:02:55
remaining: 000:00:-1

Date: 05-24-05
Time: 17:06:40

Z - Axis
Acceptance Unit
GLAT 1836

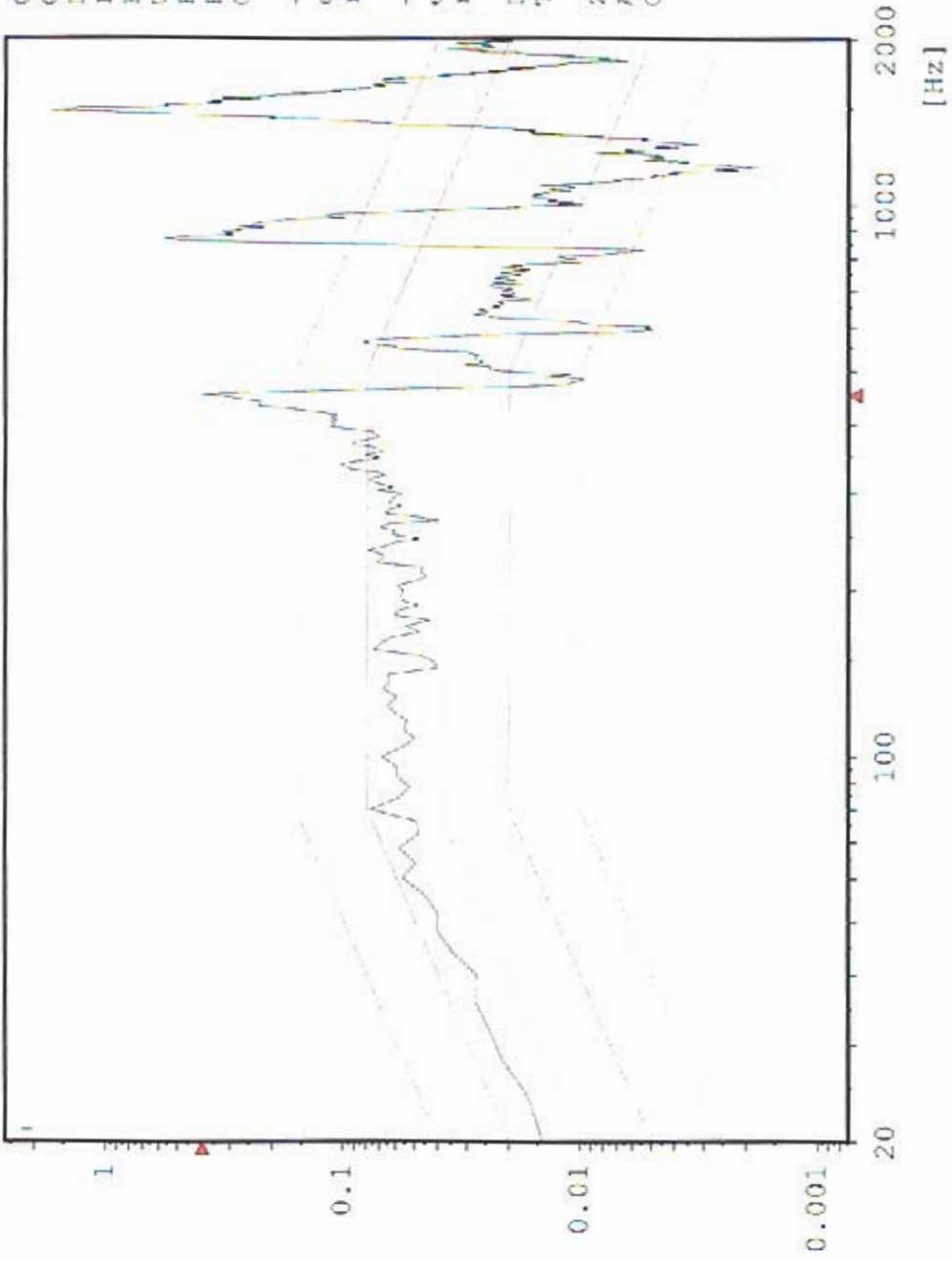
Cursor: 452 Hz 0.3941 g²/Hz

Random AZ5 TEM Bottom Edge

Stanford Linear Accelerator
J/N 49995.52000
TEM & TPS



[g²/Hz]



Chan.no: 5
 Chan.type: M
 DOF: 100
 Level: 0.0 dB
 Resolution: 4 Hz
 Unit: g²/Hz
 RMS (act.): 13.6 g
 RMS (req.): 6.787 g
 Contr.strat.: Closed loop

-- Time on act. level --
 elapsed: 000:01:01
 remaining: 000:00:-1

-- Time total --
 elapsed: 000:02:55
 remaining: 000:00:-1

Date: 05-24-05
 Time: 17:06:40

Z - Axis
 Acceptance Unit
 GLAT 1836

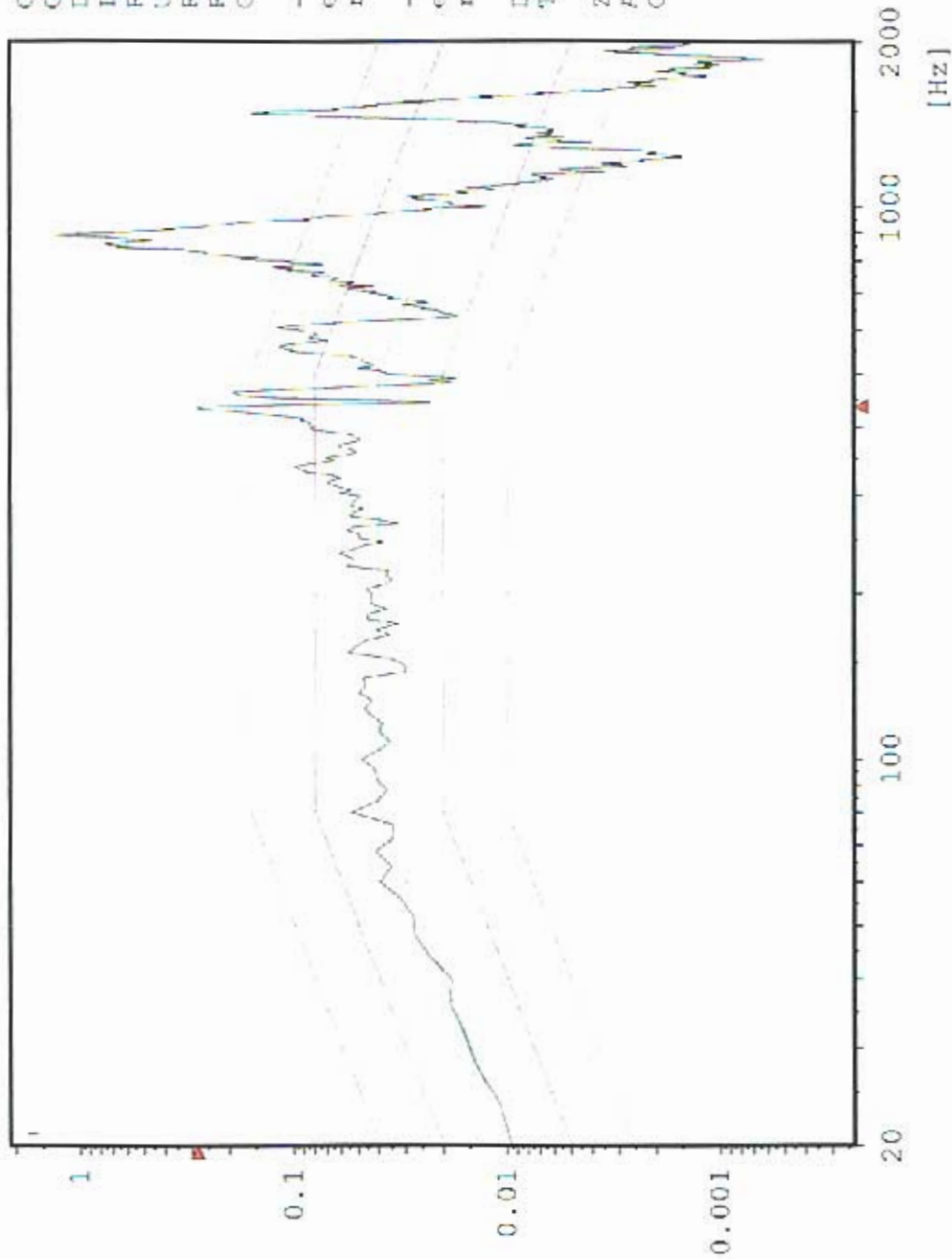
Cursor: 436 Hz 0.2845 g²/Hz

Random AZ1 TPS Edge Center

Stanford Linear Accelerator
J/N 49995.52000
TEM & TPS



[g²/Hz]



Chan.no: 6
Chan.type: M
DOF: 100
Level: 0.0 dB
Resolution: 4 Hz
Unit: g²/Hz
RMS (act.): 11.48 g
RMS (req.): 6.787 g
Contr.strat.: Closed loop

-- Time on act. level --
elapsed: 000:01:01
remaining: 000:00:-1
-- Time total --
elapsed: 000:02:55
remaining: 000:00:-1

Date: 05-24-05
Time: 17:06:40

Z - Axis
Acceptance Unit
GIAT 1836

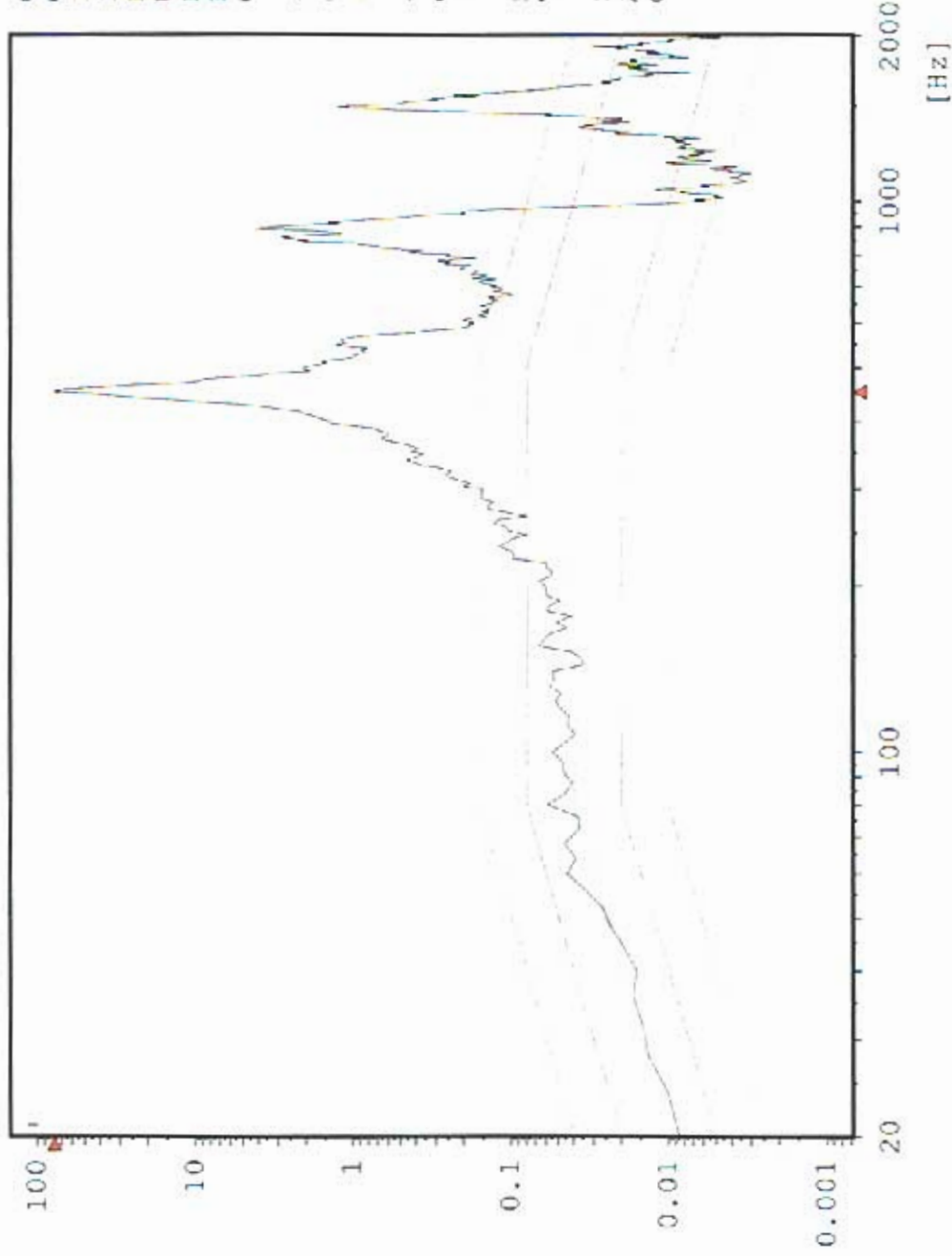
Max: 452 Hz 78.08 g²/Hz

Random AZ6 TEM Bottom Center

Stanford Linear Accelerator
J/N 49995.52000
TEM & TPS



[g²/Hz]



Chan.no: 8
Chan.type: M
DOF: 100
Level: 0.0 dB
Resolution: 4 Hz
Unit: g²/Hz
RMS (act.): 45.81 g
RMS (req.): 6.787 g
Contr.strat.: Closed loop

-- Time on act. level --
elapsed: 000:01:01
remaining: 000:00:-1

-- Time total --
elapsed: 000:02:55
remaining: 000:00:-1

Date: 05-24-05
Time: 17:06:40

Z - Axis
Acceptance Unit
GLAT 1836

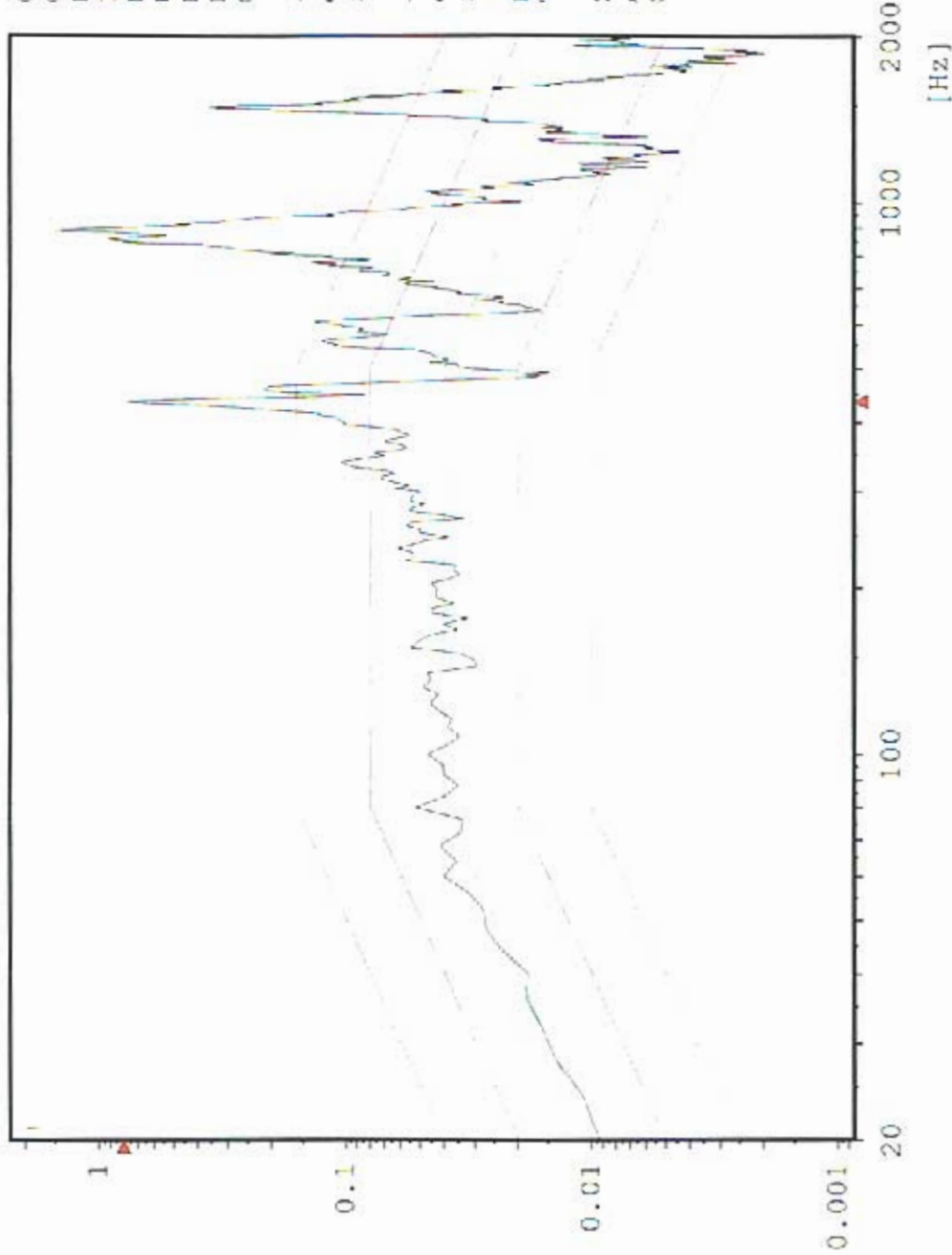
Cursor: 436 Hz 0.8007 g²/Hz

Random AZ2 TPS Corner

Stanford Linear Accelerator
J/N 49995.52000
TEM & TPS



[g²/Hz]



Chan.no: 10
Chan.type: M
DOF: 100
Level: 0.0 dB
Resolution: 4 Hz
Unit: g²/Hz
RMS (act.): 13.05 g
RMS (req.): 6.787 g
Contr.strat.: Closed loop

-- Time on act. level --
elapsed: 000:01:01
remaining: 000:00:-1

-- Time total --
elapsed: 000:02:55
remaining: 000:30:-1

Date: 05-24-05
Time: 17:06:40

Z - Axis
Acceptance Unit
G:AT 1836

Sine CZ1 Z-Axis Control

Stanford Linear Accelerator
J/N 49995.52000
TEM / TPS

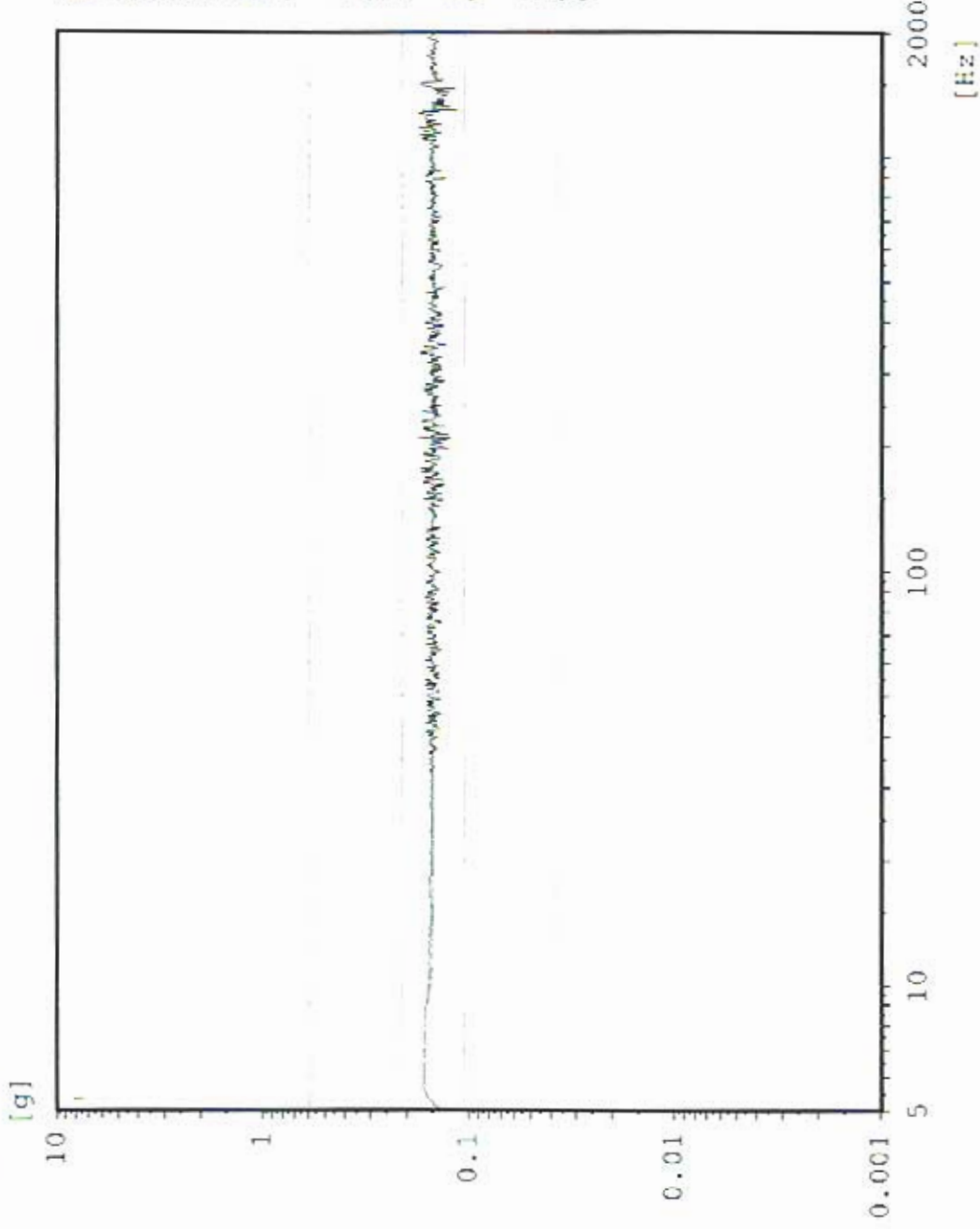


Chan.no: 1
Chan.type: CW Filtered
Sweep type: logarithmic
Sweeps done: 1
Sweeps req.: 1
Sweep direct.: up
Sweep rate: 2.00 Oct/min
Unit: g
Contr.strat.: Closed loop

-- Testing time --
elapsed: 000:04:18
remaining: 000:00:00

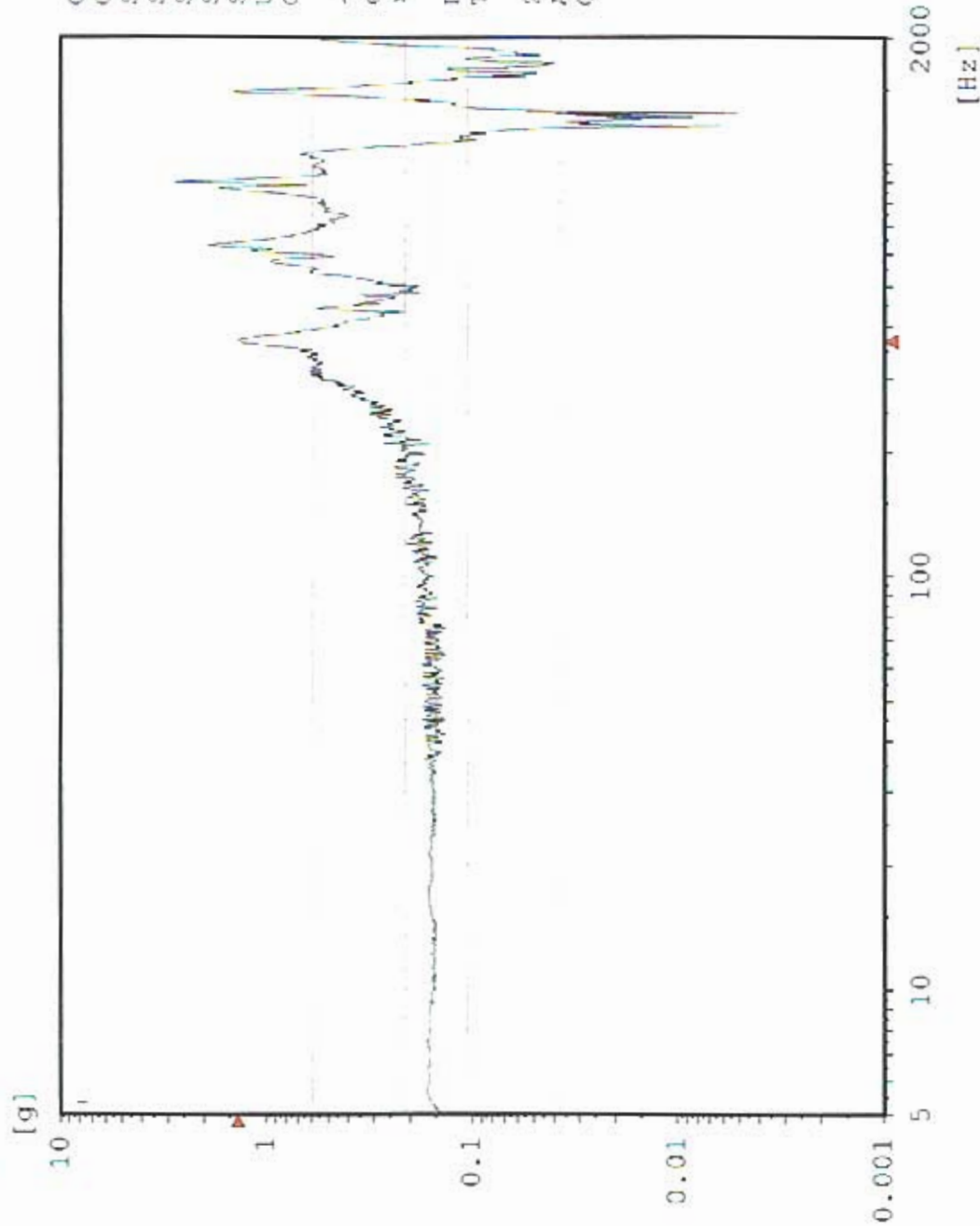
Date: 05-24-05
Time: 17:17:33

Z - axis Post Random
Acceptance Unit
GLAT 1836



Sine AZ4 TPS Boss 2

Stanford Linear Accelerator
J/N 49995.52000
TEM / TPS



Chan.no: 2
 Chan.type: M Filtered
 Sweep type: logarithmic
 Sweeps done: 1
 Sweeps req.: 1
 Sweep direct.: up
 Sweep rate: 2.00 Oct/min.
 Unit: g
 Contr.strat.: Closed loop

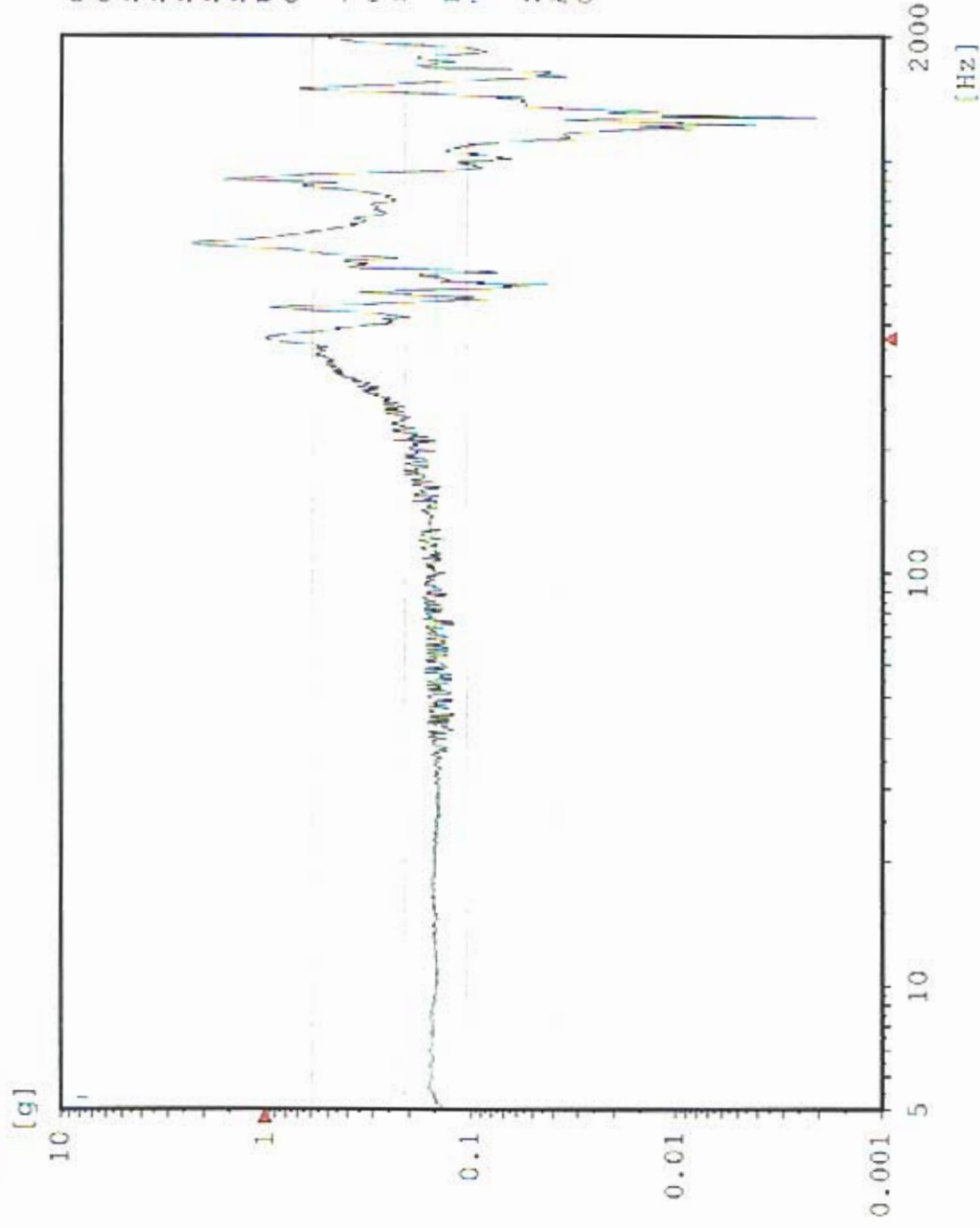
-- Testing time --
 elapsed: 000:04:18
 remaining: 000:00:00

Date: 05-24-05
 Time: 17:17:33

Z - axis Post Random
 Acceptance Unit
 GLAT 1836

AZ3 TPS Boss 1

Sine
Stanford Linear Accelerator
J/N 49995.52000
TEX / TPS



Chan.no: 3
 Chan.type: X Filtered
 Sweep type: logarithmic
 Sweeps done: 1
 Sweeps req.: 1
 Sweep direct.: up
 Sweep rate: 2.00 Oct/min
 Unit: g
 Contr.strat.: Closed loop

-- Testing time --
 elapsed: 000:04:18
 remaining: 000:00:00

Date: 05-24-05
 Time: 17:17:33

Z - axis Post Random
 Acceptance Unit
 GLAT 1836

Sine AZ5 TEM Bottom Edge

Stanford Linear Accelerator
J/N 49995.52000
TEM / TPS

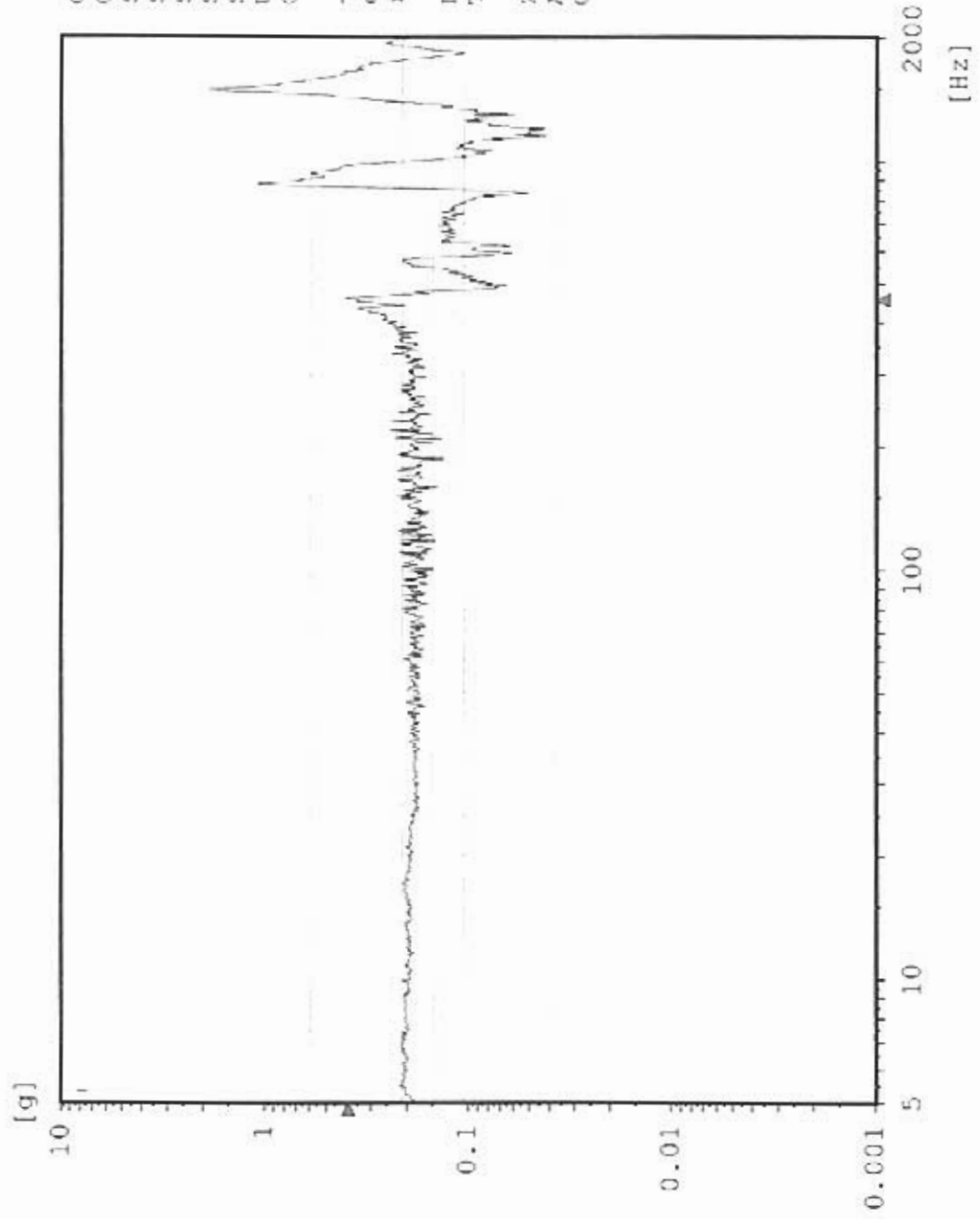


Chan.no: 5
Chan.type: M Filtered
Sweep type: logarithmic
Sweeps done: 1
Sweeps req.: 1
Sweep direct.: up
Sweep rate: 2.00 Oct/min
Unit: g
Contr.strat.: Closed loop

-- Testing time --
elapsed: 000:04:18
remaining: 000:00:00

Date: 05-24-05
Time: 17:17:33

Z - axis Post Random
Acceptance Unit
GLAT 1836

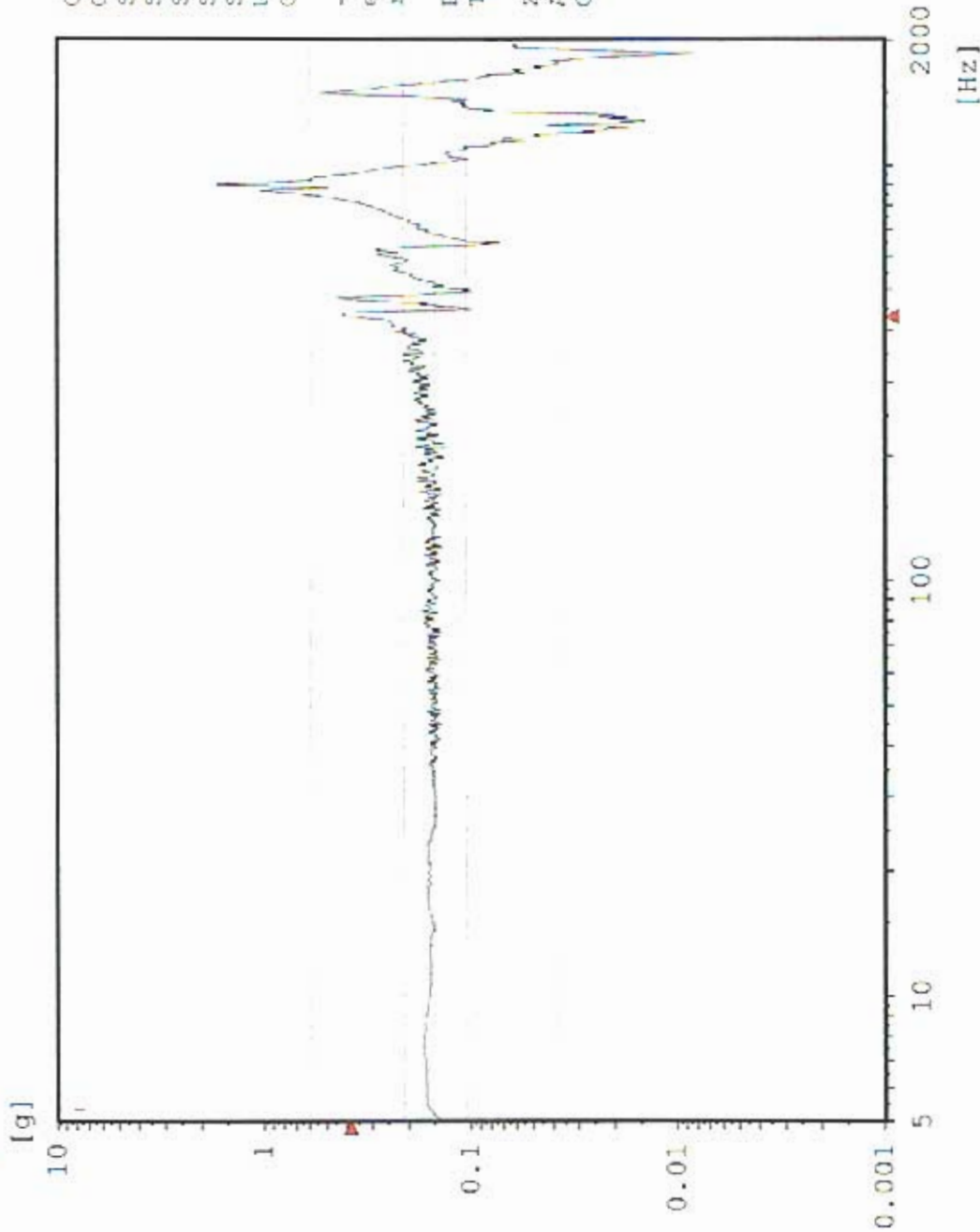


Sine AZ1 TPS Edge Center

Stanford Linear Accelerator

J/N 49995.52000

TEM / TPS



Chan.no: 6
 Chan.type: M Filtered
 Sweep type: logarithmic
 Sweeps done: 1
 Sweeps req.: 1
 Sweep direct.: up
 Sweep rate: 2.00 Oct/min
 Unit: g
 Contr.strat.: Closed loop

-- Testing time --
 elapsed: 000:04:18
 remaining: 000:00:00

Date: 05-24-05
 Time: 17:17:33

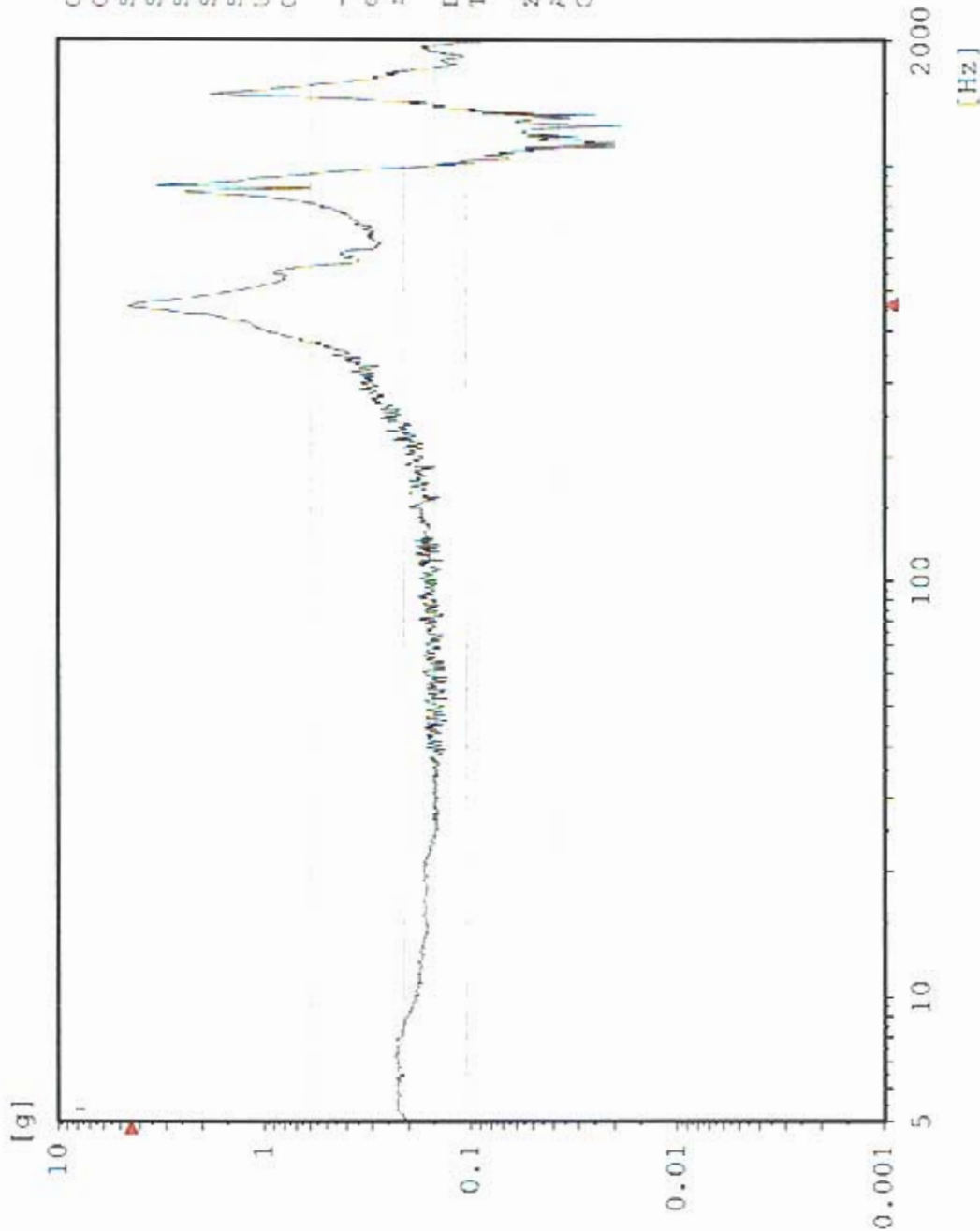
Z - axis Post Random
 Acceptance Unit
 GLAT 1836

Sine AZ6 TEM Bottom Center

Stanford Linear Accelerator

J/N 49995.52000

TEM / TPS



Chan.no: 8
 Chan.type: M Filtered
 Sweep type: logarithmic
 Sweeps done: 1
 Sweeps req.: 1
 Sweep direct.: up
 Sweep rate: 2.00 Oct/min
 Unit: g
 Contr.strat.: Closed loop

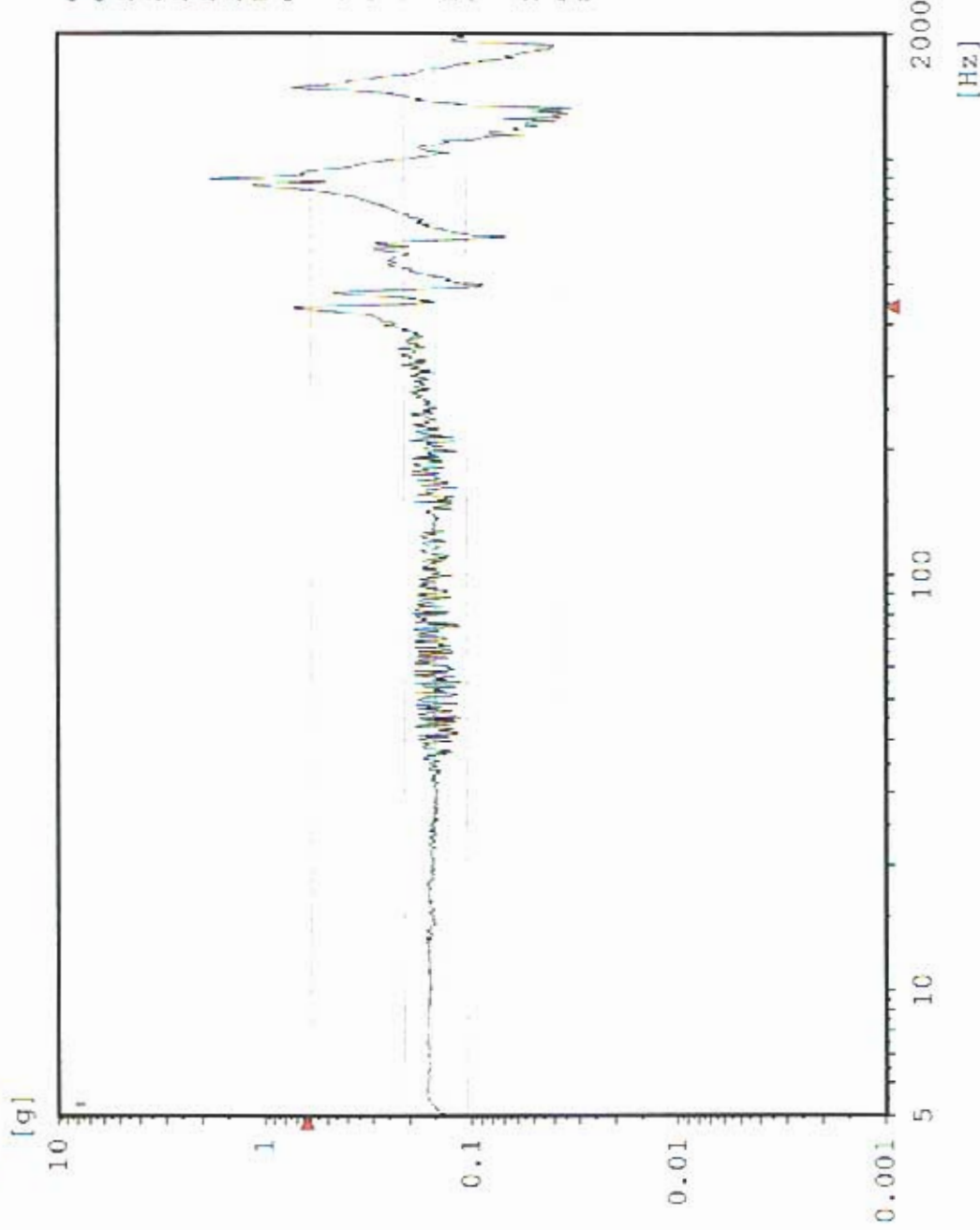
-- Testing time --
 elapsed: 000:04:18
 remaining: 000:00:00

Date: 05-24-05
 Time: 17:17:33

Z - axis Post Random
 Acceptance Unit
 GIAT 1836

Sine AZ2 TPS Corner

Stanford Linear Accelerator
J/N 49995.52000
TEM / TPS



Chan.no: 10
 Chan.type: M Filtered
 Sweep type: logarithmic
 Sweeps done: 1
 Sweeps req.: 1
 Sweep direct.: up
 Sweep rate: 2.00 Oct/min
 Unit: g
 Contr.strat.: Closed loop

-- Testing time --
 elapsed: 000:04:18
 remaining: 000:00:00

Date: 05-24-05
 Time: 17:17:33

Z - axis Post Random
 Acceptance Unit
 GLAT 1836



EQUIPMENT LIST

JOB NUMBER 49995.52000

TEST DESCRIPTION Random & Sine Vibration

EQUIPMENT DESCRIPTION	MANUFACTURER	MODEL NUMBER	ASSET NUMBER	RANGE	ACCURACY	CALIBRATION DATE	CALIBRATION PERIOD
Vibration System	Unholtz-Dickie	T1000	4-6242	17,500 Force Lbs. 2Hz -3KHz	± 10%	05-24-05	T.O.T
Accelerometer	Endevco Corp.	2271A	4-42129	1,000 g's Max: 2Hz - 5.5KHz	± 5%	11-01-04	1 Yr.
	Endevco Corp.	2226C	4-42130	1,000 g's Max: 3Hz - 6KHz	± 5%	05-25-04	1 Yr.
	Endevco Corp.	2226C	4-64096	1,000 g's Max: 3Hz - 6KHz	± 5%	04-14-05	1 Yr.
	Endevco Corp.	2222C	4-42138	1,000 g's Max: 5Hz - 8KHz	± 5%	06-18-04	1 Yr.
	Endevco Corp.	2226C	4-64082	1,000 g's Max: 3Hz - 6KHz	± 5%	04-14-05	1 Yr.
	Endevco Corp.	2226C	4-6555	1,000 g's Max: 3Hz - 6KHz	± 5%	06-18-04	1 Yr.
	Endevco Corp.	2222C	4-42143	1,000 g's Max: 5Hz - 8KHz	± 5%	11-01-04	1 Yr.
Charge Amp.	Unholtz-Dickie	D22-8	4-64032	Freq. Response: 5Hz - 5KHz	± 2%	03-04-05	6 Mo.
	Unholtz-Dickie	D22-8	4-6539	Freq. Response: 5Hz - 5KHz	± 2%	03-04-05	6 Mo.
	Unholtz-Dickie	D22-8	4-6540	Freq. Response: 5Hz - 5KHz	± 2%	03-04-05	6 Mo.
	Unholtz-Dickie	D22-8	4-6458	Freq. Response: 5Hz - 5KHz	± 2%	03-04-05	6 Mo.
	Unholtz-Dickie	D22-8	4-6559	Freq. Response: 5Hz - 5KHz	± 2%	03-04-05	6 Mo.
	Unholtz-Dickie	D22-8	4-6548	Freq. Response: 5Hz - 5KHz	± 2%	03-04-05	6 Mo.
	Unholtz-Dickie	D22-8	4-6457	Freq. Response: 5Hz - 5KHz	± 2%	03-04-05	6 Mo.
Digital Vibration	M + P	VXI	4-62092	Freq. Range: 23KHz	± 1%	03-14-05	2 Yr.
Control System	International / Agilent	E8408A		Sample Rate: 51.2KSa/sec. Dynamic Range: 90dB Voltage: 10v Pk Resolution: 20 Bit / 3200 lines Channels: 16, COLA, 1v Pk			