

GLAT 1845
1846

Appendix A – Accelerometer Sensitivities



GLAST LAT Project GASU/PDU Vibration Testing
Accelerometer Sensitivities and Charge Amp Settings

Accel. #	Ch. #	S/N	Model	Sensitivity [pC/g]	F.S. Range [g]	Tape Gain [mV]	Sensitivity [mV/g]
CZ1		13048	2271AMD20	12.43	3	3000	1000
AZ1	3	AHKB25	2226C	3.030	30	3000	100
AZ2	6	16139 2	2226C	3.038	30	3000	100
AZ3	10	16139	2226C	3.027	30	3000	100
CX1		13048	2271AMD20	12.43	3	3000	1000
AX1	3	16139	2226C	3.030	30	3000	100
AX2	6	AHKB2	2226C	3.038	30	3000	100
AX3	10	16139	2226C	3.027	30	3000	100
CY1		13048	2271AMD20	12.43	3	3000	1000
AY1	3	AHKB25	2226C	3.030	30	3000	100
AY2	6	16139 2	2226C	3.038	30	3000	100
AY3	10	16139	2226C	3.027	30	3000	100

Appendix B – Test Log

GLAT 1845
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GLAST LAT Project TEM/TPS Vibration Testing

Test Log

Date	Time	Unit #	Axis	Sine or Random	Level [g]/[grms]	Frequency [Hz]	File Name	Remarks
7/14/05	9:30	1845	X	Pre	0.15	5-2000		
			X	Random	6.8	5-2000		
			X	Post	0.15	5-2000		
			Y					
			Y					
			Y					
		1846	X					
			X					
			X					
			Y					
			Y					
	12:00		Y					
7/15/05	10:50		Z					
			Z					
			Z					
		1845	Z					
			Z					
	12:00		Z					

Appendix D – Test Data Package Checklist

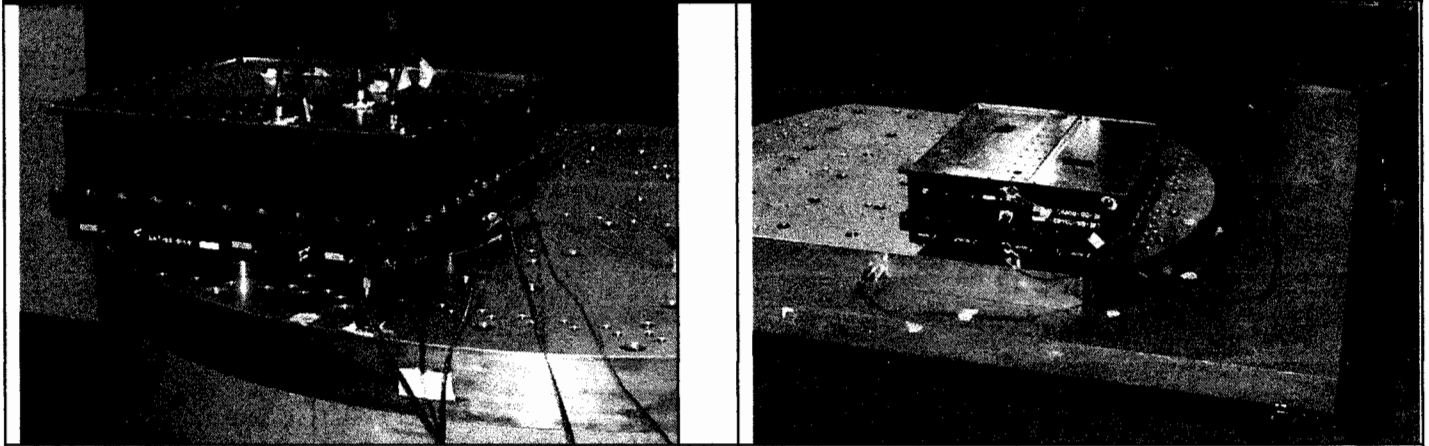


GLAST LAT Project GASU/PDU Vibration Testing
Qualification/Acceptance Test Data Package Checklist
 (Items supplied by Wyle Labs at end of test)

Item	✓	Description / Location
1	✓	Calibrated Equipment List
2	✓	Vibration Test plots (Pre- and Post test signature overlays and random vibration test data for Z, X, and Y axes)
3	✓	Electronic Data in UFF or equivalent format, if available
4	✓	Photographs of test setup
5	✓	Procedure data sheets (Appendices A, B, and C)
6	N/A	Visual Inspection Report
7	N/A	Test Control System Software Setup Sheets

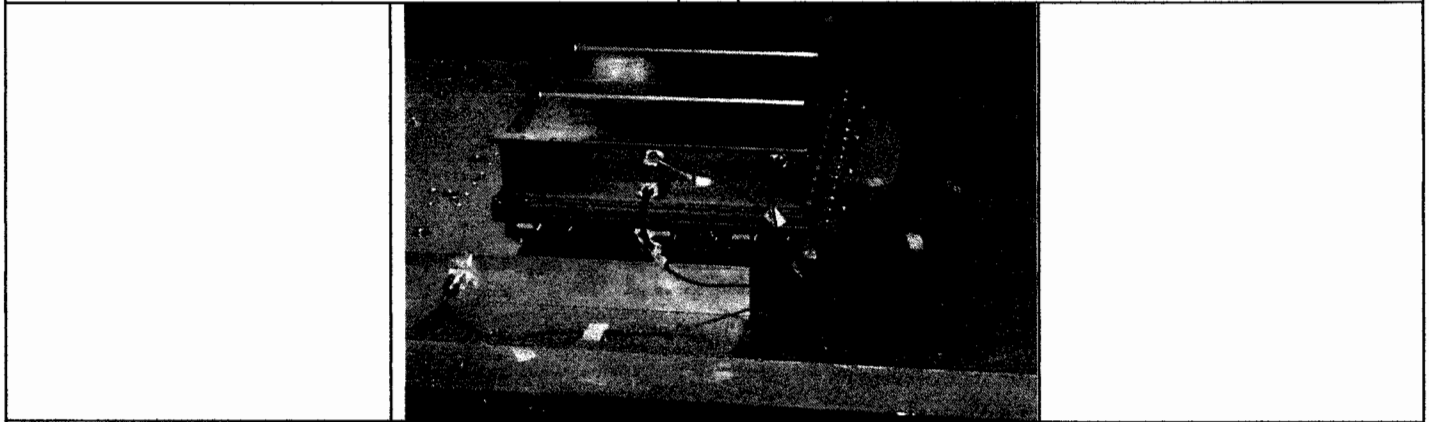
TEST DATA

DATE STARTED 07-14-05	CUSTOMER Stanford Linear Accelerator	TECHNICIAN (SIGNATURE) <i>D. Wiltshire</i> WISC 7-27
DATE COMPLETED 07-14-05	SPECIMEN DESCRIPTION TEM & TPS, SIU / SIB { See Initial Visual }	ENGINEER (SIGNATURE) <i>J. McChesney</i> WISC 0-02
TEMPERATURE 74°F	TYPE OF TEST SET-UP - Detail	ENGINEER <i>J. McChesney</i>
HUMIDITY 36% R.H.	MANUFACTURER Stanford Linear Accelerator	JOB NUMBER 49995.52097
SPECIMEN NUMBER 1 - 3	TEST SPECIFICATION See Vibration Data	



Z - Axis

X - Axis



Y - Axis



TEST DATA

DATE STARTED 07-14-05		CUSTOMER Stanford Linear Accelerator			TECHNICIAN (SIGNATURE) <i>D. Wiltshire</i> WSC T-21	
DATE COMPLETED 07-15-05		SPECIMEN DESCRIPTION TEM / TPS, SIU / SIB { See Initial Visual }			ENGINEER (SIGNATURE) <i>Sime Chester</i> WSC U-02	
TEMPERATURE 74°F		TYPE OF TEST VIBRATION - Sine and Random – Non-Op.			ENGINEER <i>Sime Chester</i>	
HUMIDITY 36% R.H.		MANUFACTURER Stanford Linear Accelerator			JOB NUMBER 49995.52097	
SPECIMEN NUMBER 1 - 3		TEST SPECIFICATION SLAC LAT-TD-05649 & Customer Instruction				
SPECIMEN NUMBER	DATE	AXIS	TIME START	TIME STOP	VIBRATION FREQUENCIES AND LEVELS	REMARKS
1	07-14-05	X	0933	+0:04:18	Sine - Search 20 - 2000Hz @ 0.15g 2 octaves / minute 1 sweep up / axis 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	0947	+0:01:00		Random Accept.
		X	1000	+0:04:18		Sine Search
		Y	1019	+0:04:18		Sine Search
		Y	1033	+0:01:00		Random Accept.
1		Y	1040	+0:04:18		Sine Search
2		X	1105	+0:04:18		Sine Search
		X	1120	+0:01:00		Random Accept.
		X	1127	+0:04:18		Sine Search
		Y	1142	+0:04:18		Sine Search
		Y	1154	+0:01:00	Random Accept.	
2	07-14-05	Y	1202	+0:04:18	Sine Search	
3	07-15-05	Z	0943	+0:01:00	<i>specimen #3 SIU Test only (non-flt. box)</i>	Random Accept.
3	07-15-05	Z	1025	+0:01:00		Random Accept.



TEST DATA

DATE STARTED 07-14-05		CUSTOMER Stanford Linear Accelerator			TECHNICIAN (SIGNATURE) <i>D. Wiltshire</i> WSC T-21	
DATE COMPLETED 07-15-05		SPECIMEN DESCRIPTION TEM / TPS, SIU / SIB { See Initial Visual }			ENGINEER (SIGNATURE) <i>Jim Chesney</i> WSC Q-02	
TEMPERATURE 74°F		TYPE OF TEST VIBRATION - Sine and Random – Non-Op.			ENGINEER <i>Jim Chesney</i>	
HUMIDITY 36% R.H.		MANUFACTURER Stanford Linear Accelerator			JOB NUMBER 49995.52097	
SPECIMEN NUMBER 1 - 3		TEST SPECIFICATION SLAC LAT-TD-05649 & Customer Instruction				
SPECIMEN NUMBER	DATE	AXIS	TIME START	TIME STOP	VIBRATION FREQUENCIES AND LEVELS	REMARKS
1	07-15-05	Z	1050	+0:04:18	Sine - Search 20 - 2000Hz @ 0.15g 2 octaves / minute 1 sweep up / axis 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
			1100	+0:01:01		Random Accept.
1			1112	+0:04:18		Sine Search
2		Z	1130	+0:04:18		Sine Search
			1144	+0:01:01		Random Accept.
2		Z	1150	+0:04:18		Sine Search
3		X	1231	+0:01:00		Random Accept.
		Y	1243	+0:01:00		Random Accept.
		X	1304	+0:01:00		Random Accept.
3	07-15-05	Y	1314	+0:01:00		Random Accept.
					Note: Specimens were returned to customer for a post test evaluation	



EQUIPMENT LIST

JOB NUMBER 49995.52097

TEST DESCRIPTION Random & Sine Vibration

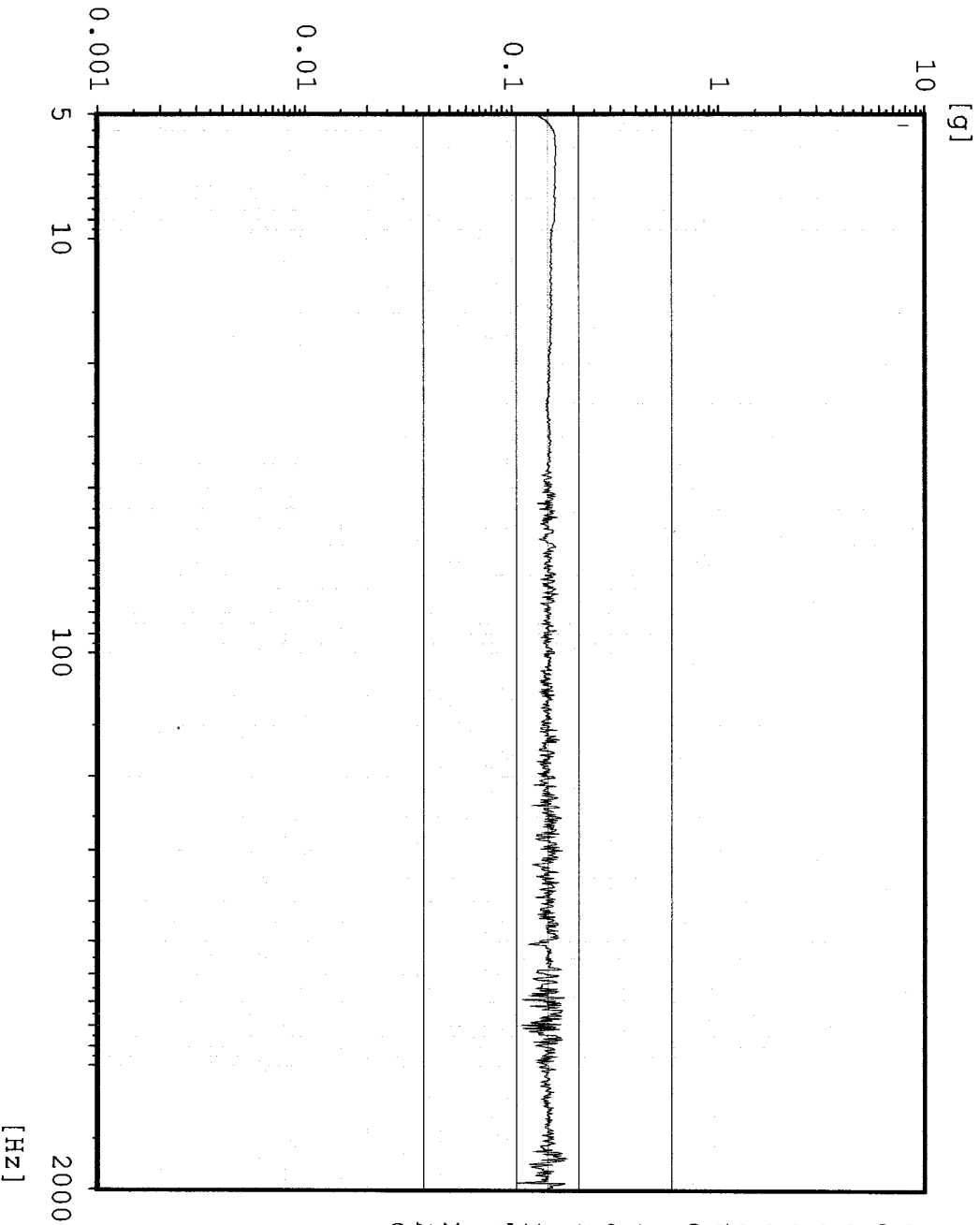
EQUIPMENT DESCRIPTION	MANUFACTURER	MODEL NUMBER	ASSET NUMBER	RANGE	ACCURACY	CALIBRATION DATE	CALIBRATION PERIOD
Vibration System	Unholtz-Dickie	T1000	4-6242	17,500 Force Lbs: 2Hz -3KHz	± 10%	07-14-05	T.O.T
Accelerometer	Endevco Corp.	2271A	4-42129	1,000 g's Max: 2Hz - 5.5KHz	± 5%	11-01-04	1 Yr.
	Endevco Corp.	2226C	4-42130	1,000 g's Max: 3Hz - 6KHz	± 5%	06-23-05	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%	06-23-05	1 Yr.
	Endevco Corp.	2226C	4-64082	1,000 g's Max: 3Hz - 6KHz	± 5%	04-14-05	1 Yr.
	Endevco Corp.	2220D	4-6442	1,000 g's Max: 2Hz - 10KHz	± 5%	08-26-04	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	4-6461	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: 51.2Ks/s/sec. Dynamic Range: 90dB Voltage: 10v Pk Resolution: 20 Bit / 3200 lines Channels: 16; COLA; 1v Pk.			

Sine CX1 X-Axis Control

Stanford Linear Accelerator

J/N 49995.52097

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

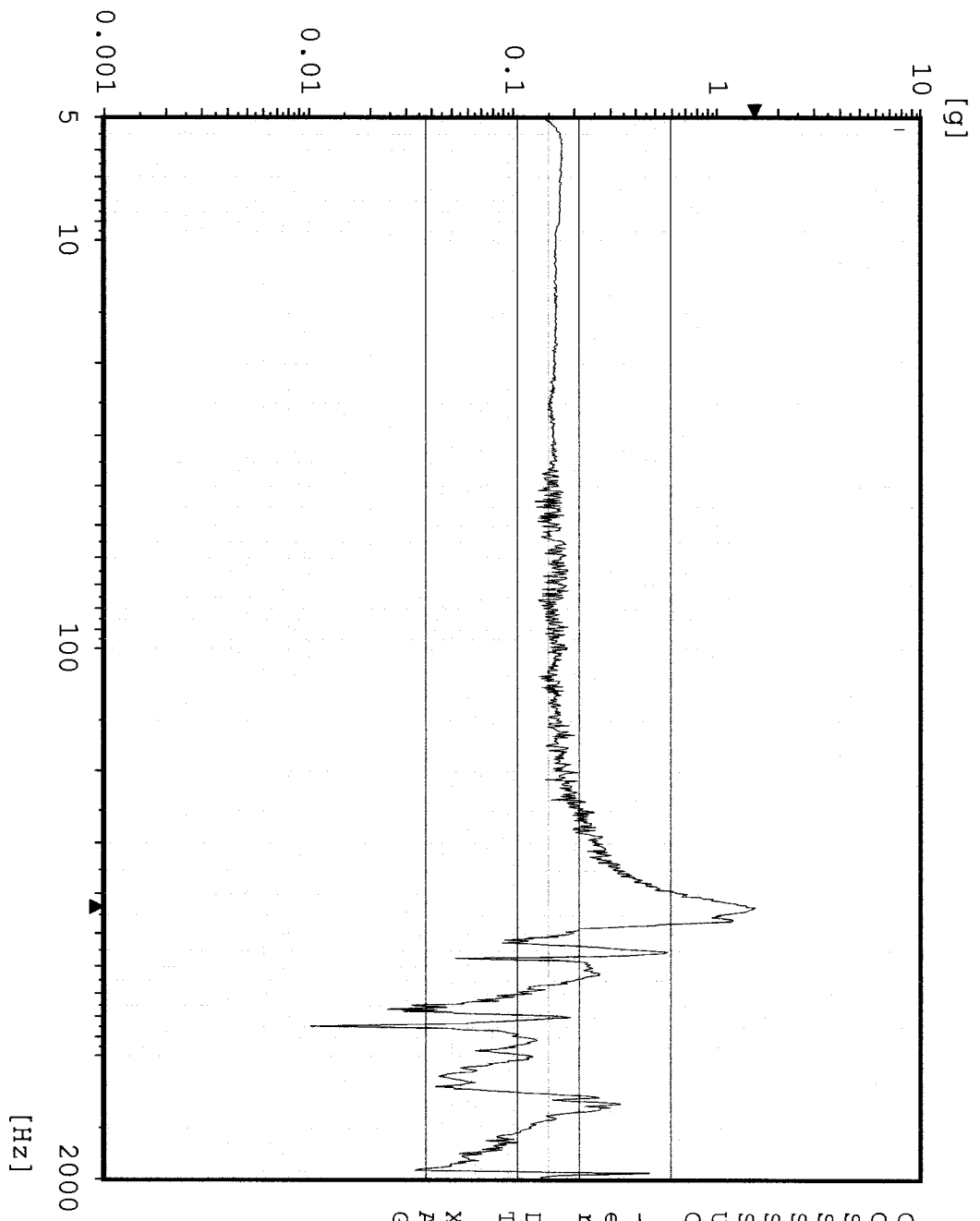
-- Testing time --
elapsed: 000:04:18
remaining: 000:00:00

Date: 07-14-05
Time: 09:37:53

X - axis Pre Random
Acceptance Unit
GLAT 1845

Sine AX3 TPS top center

Stanford Linear Accelerator
J/N 49995.52097
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: 07-14-05
Time: 09:37:53

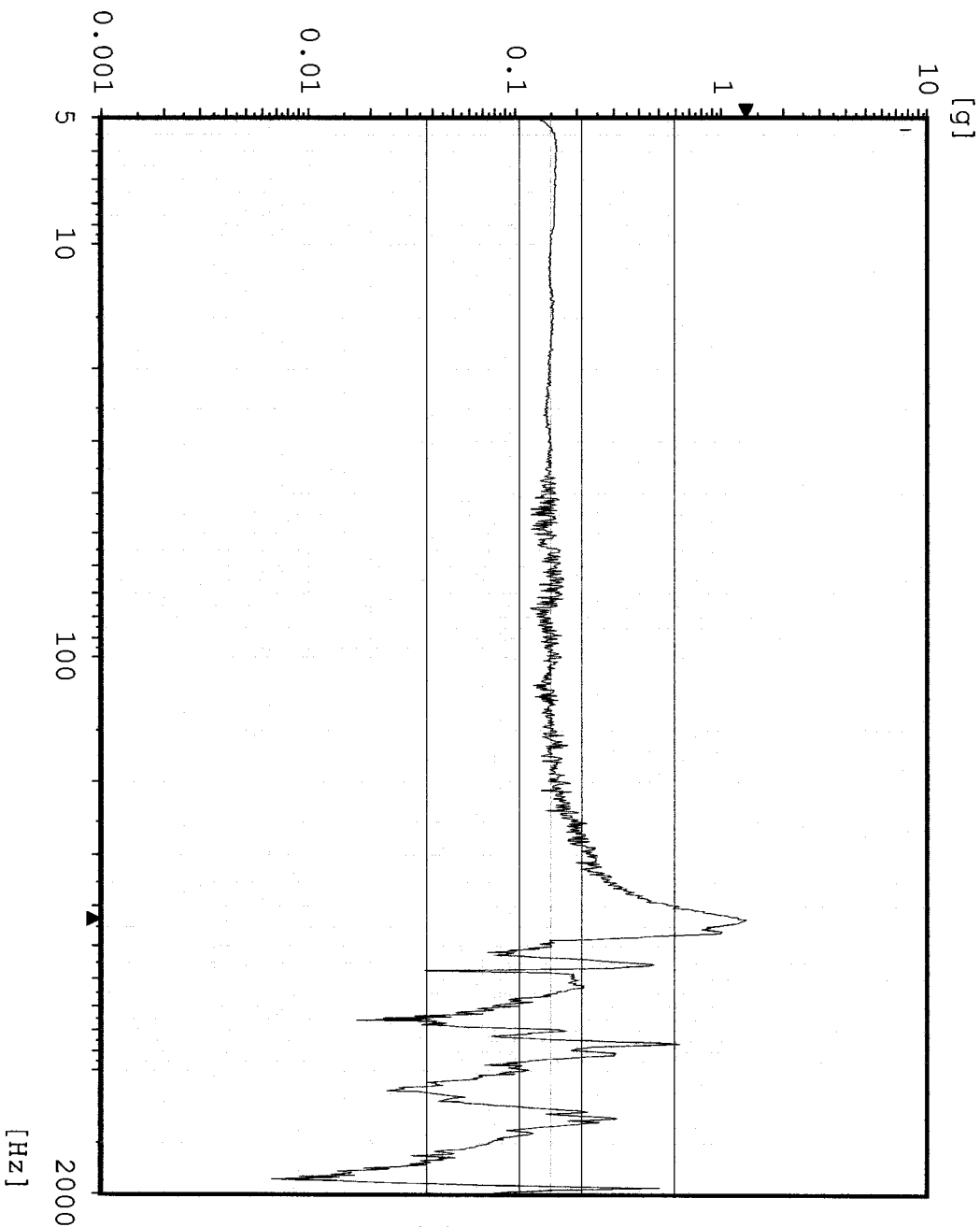
X - axis Pre Random
Acceptance Unit
GIAT 1845
  
```

Sine AX4 TPS top edge

Stanford Linear Accelerator

J/N 49995.52097

TEM / TPS



```

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

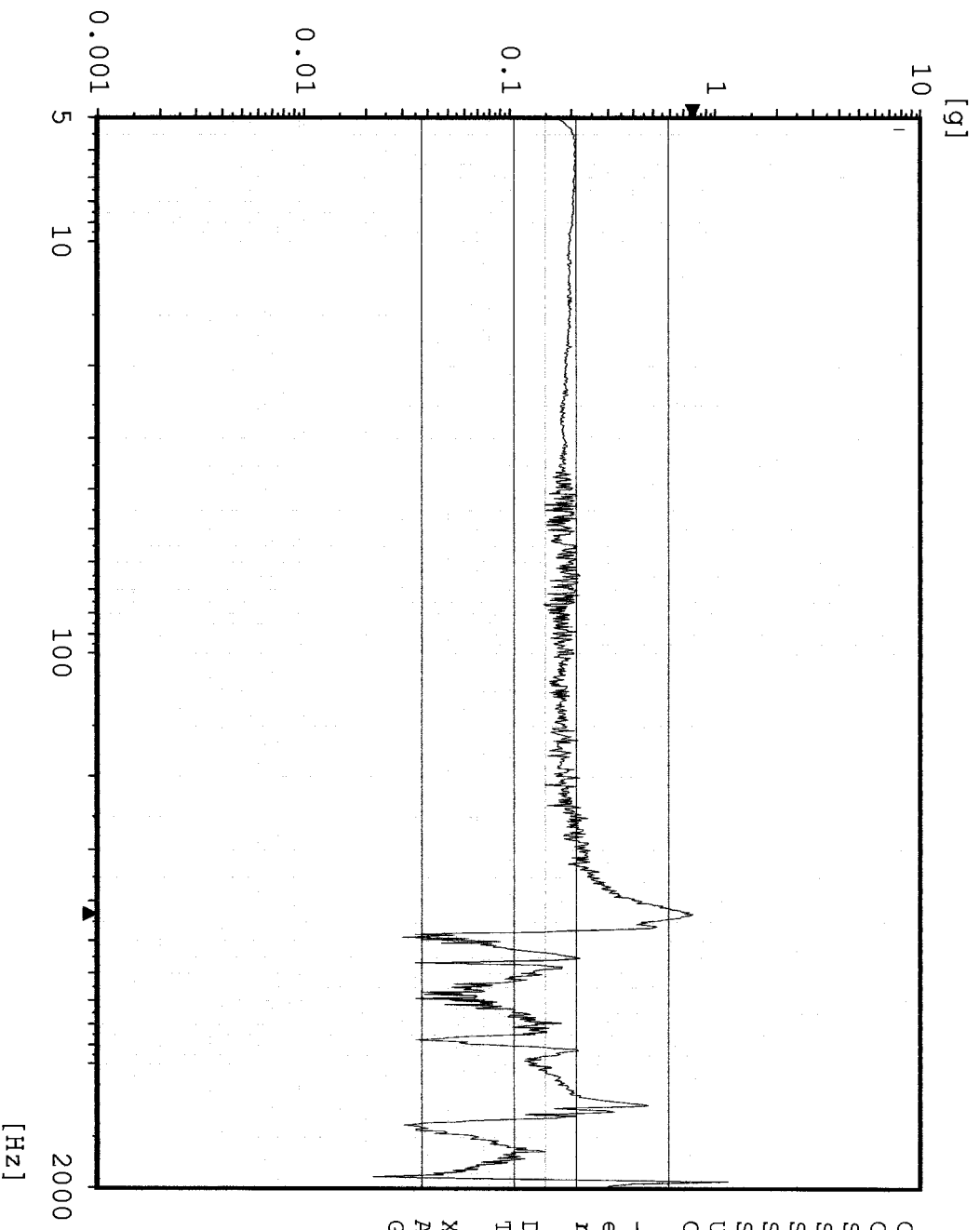
-- Testing time --
elapsed: 000:04:18
remaining: 000:00:00

Date: 07-14-05
Time: 09:37:53

X - axis Pre Random
Acceptance Unit
GLAT 1845
  
```

Sine AXI TEM center edge

Stanford Linear Accelerator
J/N 49995.52097
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: 07-14-05
Time: 09:37:53

X - axis Pre Random
Acceptance Unit
GIAT 1845

```

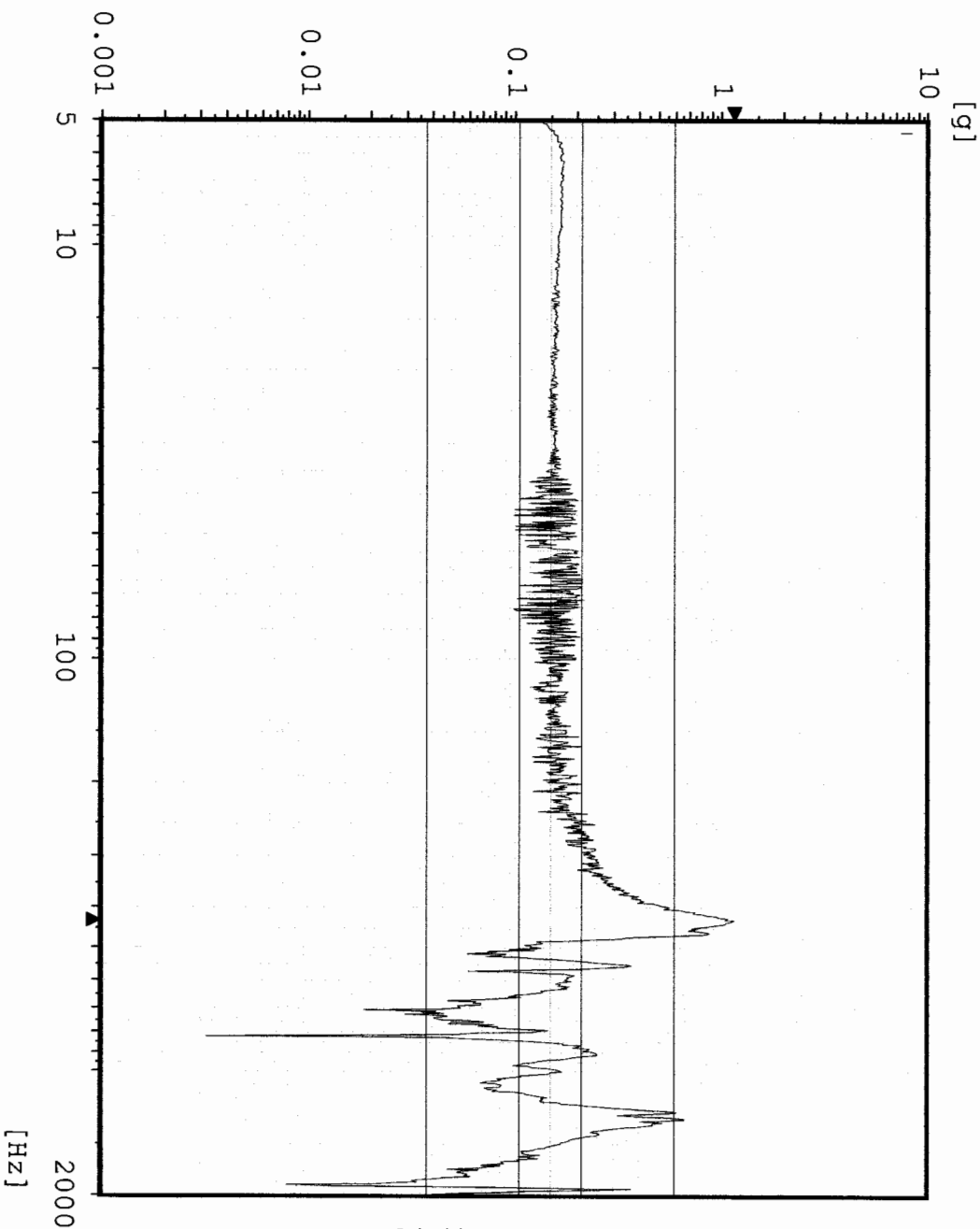
Sine

AX2 TPS CG

Stanford Linear Accelerator

J/N 49995.52097

TEM / TPS



Chan.no: 10 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: 07-14-05
 Time: 09:37:53

X - axis Pre Random
 Acceptance Unit
 GLAT 1845

Random

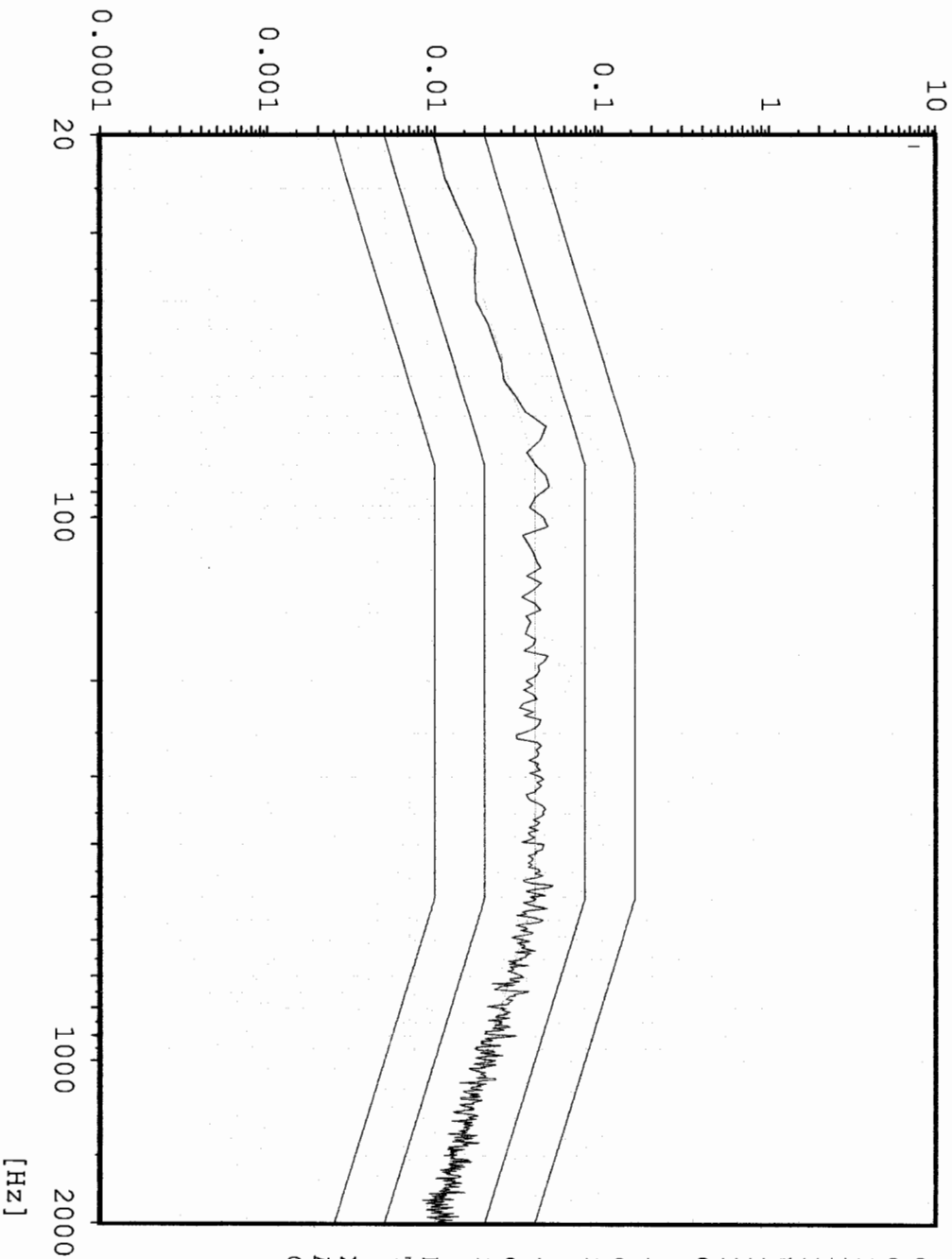
CX1 X-Axis Control

Stanford Linear Accelerator

J/N 49995.52097

TEM & TPS

[g²/Hz]



Chan.no: 1
Chan.type: C
DOF: 126
Level: 0.0 dB
Resolution: 4 Hz
Unit: g²/Hz
RMS (act.): 6.836 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: 000:02:56
remaining: 000:00:00

Date: 07-14-05
Time: 09:48:22

X - Axis
Acceptance Unit
GLAT 1845



Random AX4 TPS Top Center

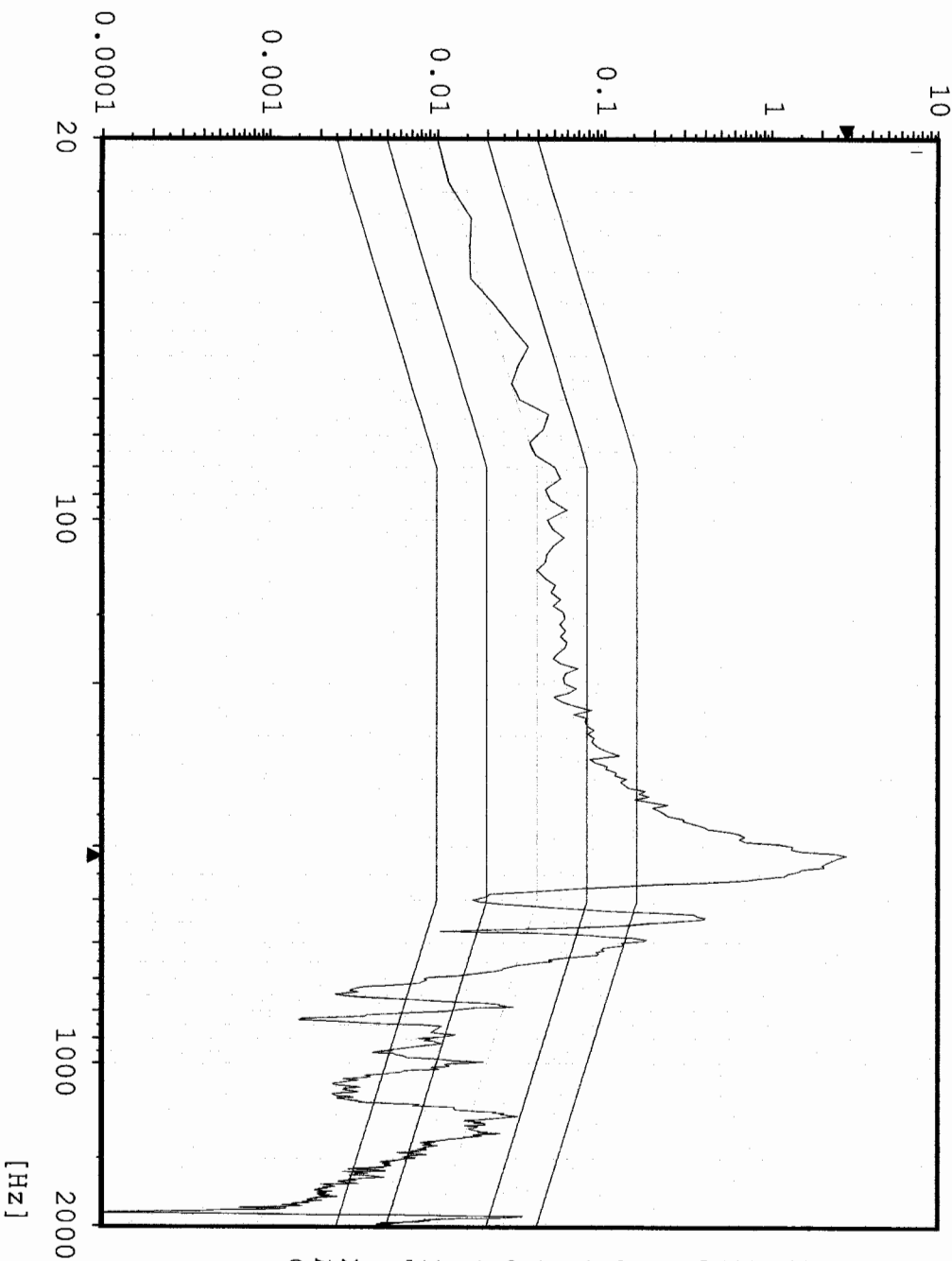
Stanford Linear Accelerator

J/N 49995.52097

TEM & TPS



[g²/Hz]



```

Chan.no:      2
Chan.type:    M
DOF:          100
Level:        0.0 dB
Resolution:   4 Hz
Unit:         g2/Hz
RMS (act.):   14.02 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:      000:02:56
remaining:    000:00:00
  
```

```

Date:         07-14-05
Time:         09:48:22
  
```

```

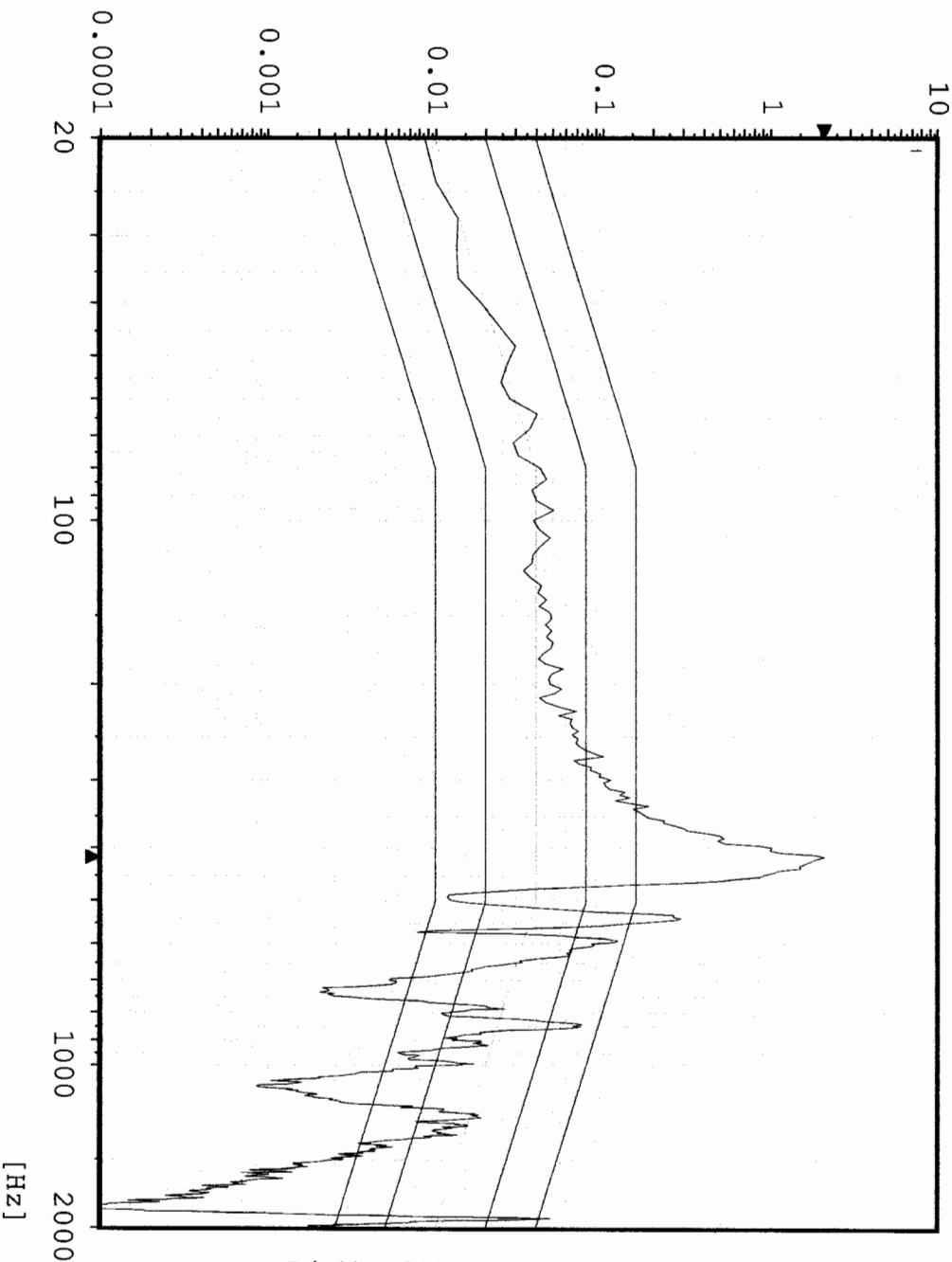
X - Axis
Acceptance Unit
GLAT 1845
  
```


Random AX3 TPS Top Edge

Stanford Linear Accelerator
J/N 49995.52097
TEM & TPS



[g²/Hz]



Chan.no: 3
Chan.type: M
DOF: 100
Level: 0.0 dB
Resolution: 4 Hz
Unit: g²/Hz
RMS (act.): 12.21 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: 000:02:56
remaining: 000:00:00

Date: 07-14-05
Time: 09:48:22

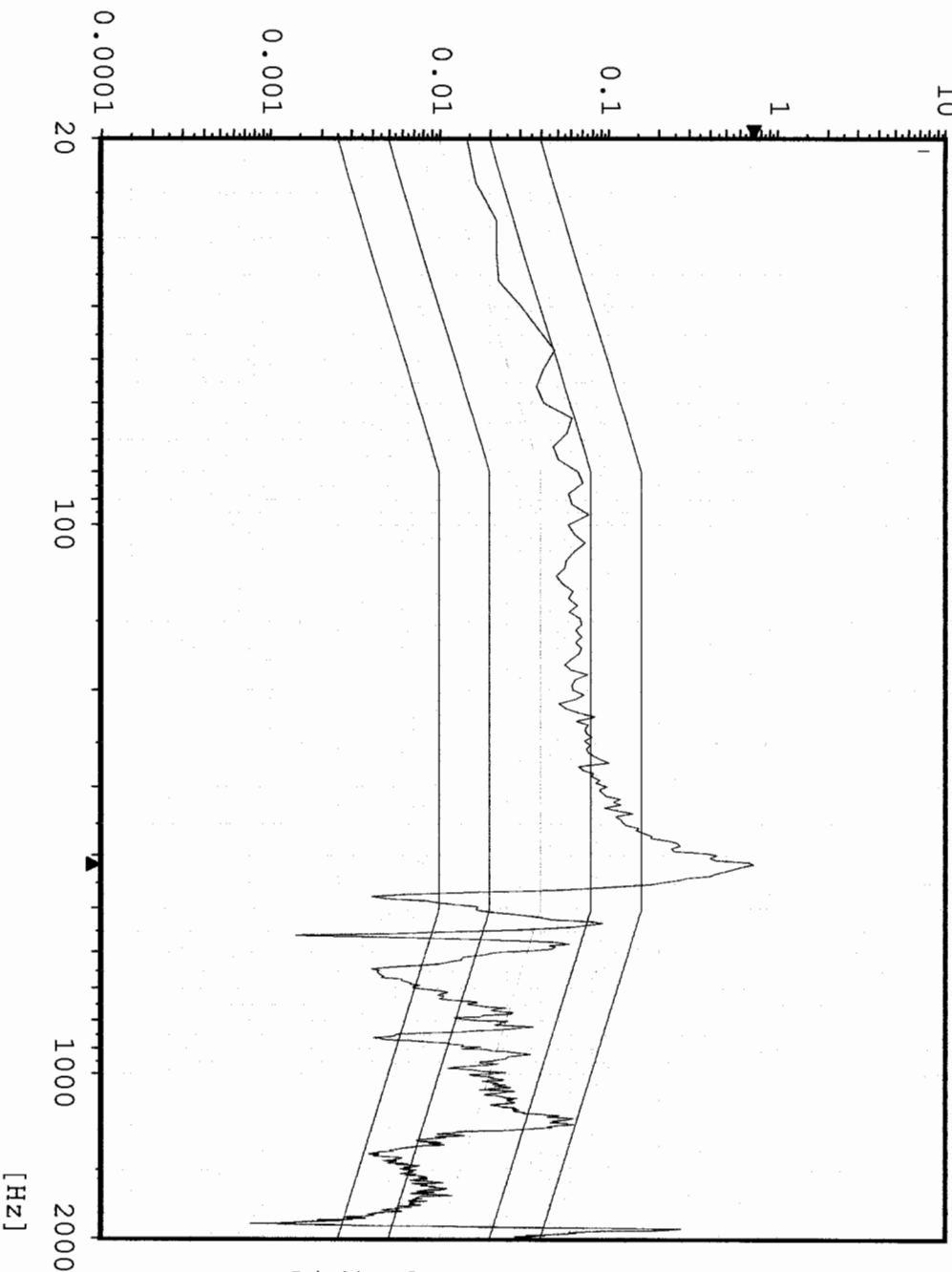
X - Axis
Acceptance Unit
GLAT 1845

Random CH# 5 TEM center edge

Stanford Linear Accelerator
J/N 49995.52097
TEM & TPS



[g²/Hz]



```

Chan.no:      5
Chan.type:    M
DOF:          100
Level:        0.0 dB
Resolution:   4 Hz
Unit:         g2/Hz
RMS (act.):   9.502 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:      000:02:56
remaining:    000:00:00

```

```

Date:         07-14-05
Time:         09:48:22

```

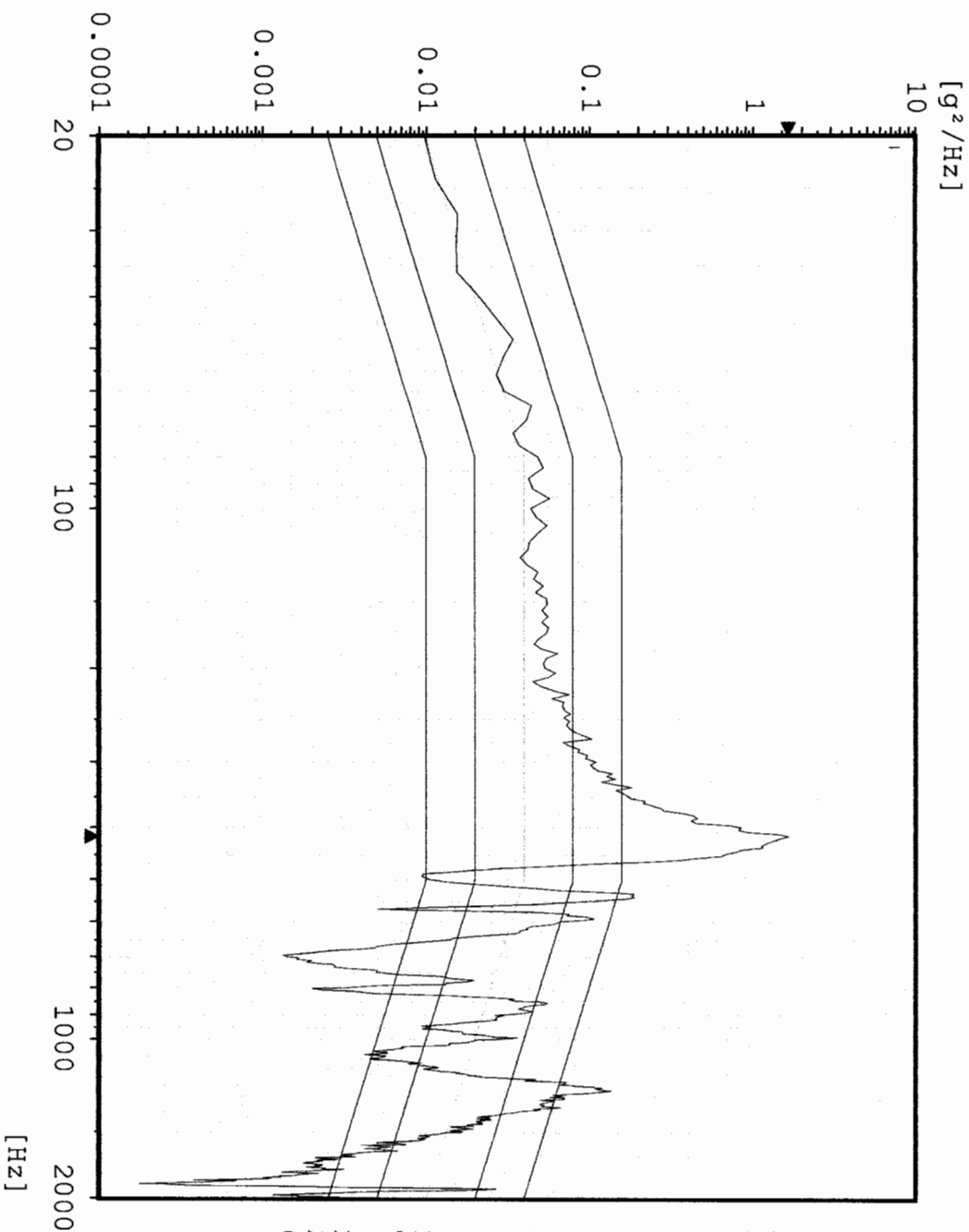
```

X - Axis
Acceptance Unit
GLAT 1845

```

Random AX2 TPS Bottom center

Stanford Linear Accelerator
J/N 49995.52097
TEM & TPS



Chan.no: 10
Chan.type: M
DOF: 100
Level: 0.0 dB
Resolution: 4 Hz
Unit: g²/Hz
RMS (act.): 11.81 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: 000:02:56
remaining: 000:00:00

Date: 07-14-05
Time: 09:48:22

X - Axis
Acceptance Unit
GLAT 1845

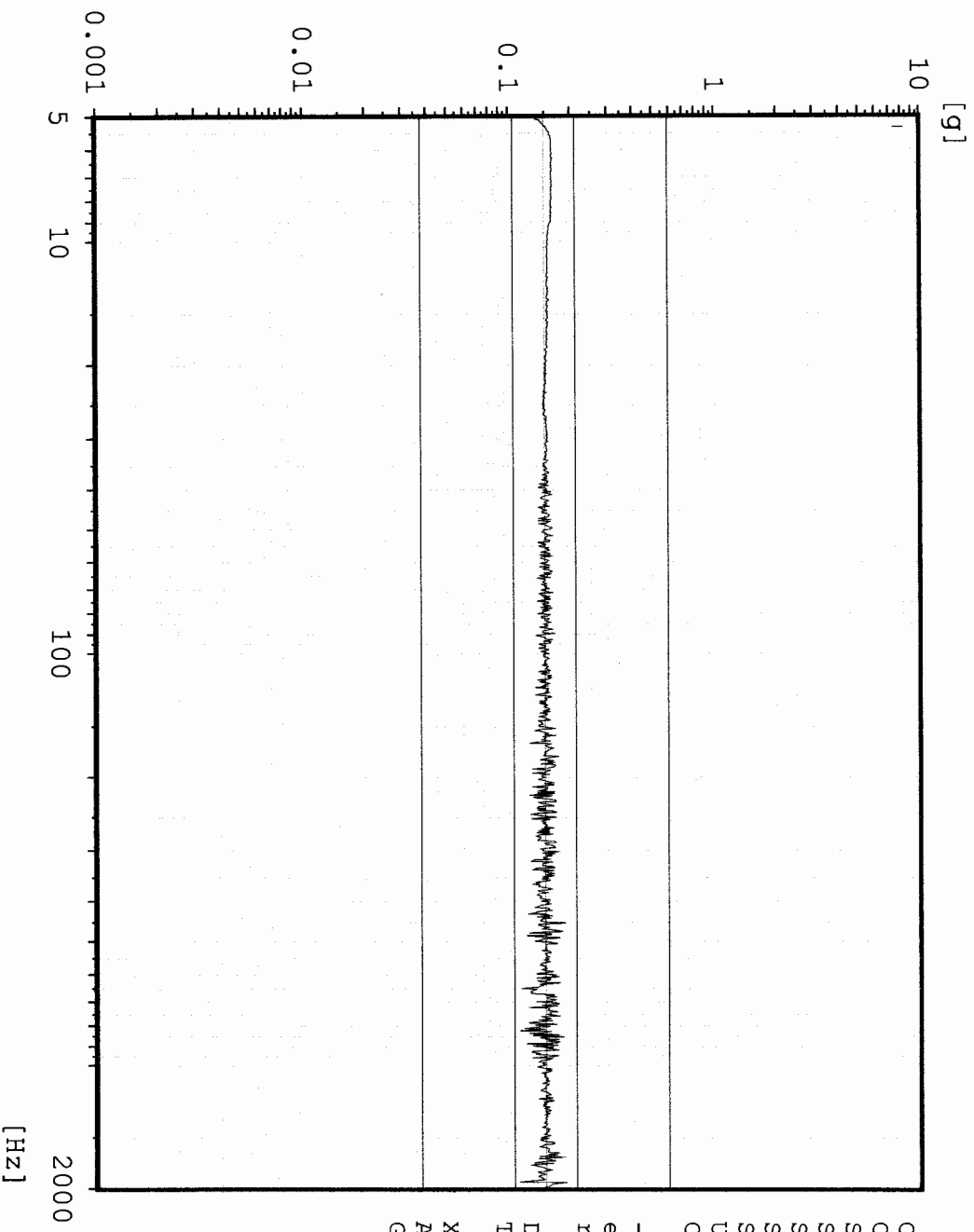
Sine

CX1 X-Axis Control

Stanford Linear Accelerator

J/N 499995.52097

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
  
```

```

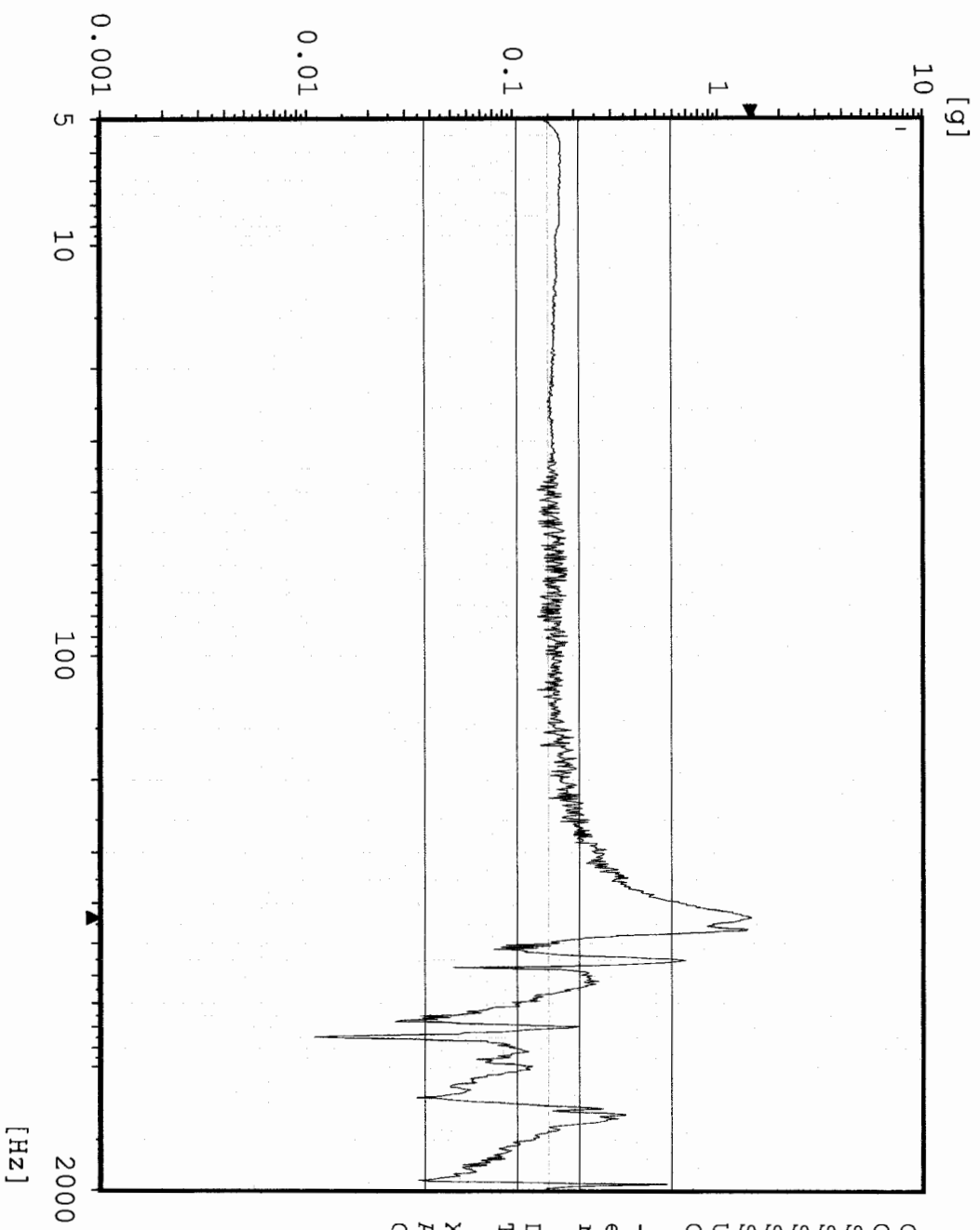
Date:         07-14-05
Time:         10:05:12
  
```

```

X - axis      Post Random
Acceptance Unit
GIAT 1845
  
```

Sine AX3 TPS top center

Stanford Linear Accelerator
J/N 49995.52097
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: 07-14-05
Time: 10:05:12

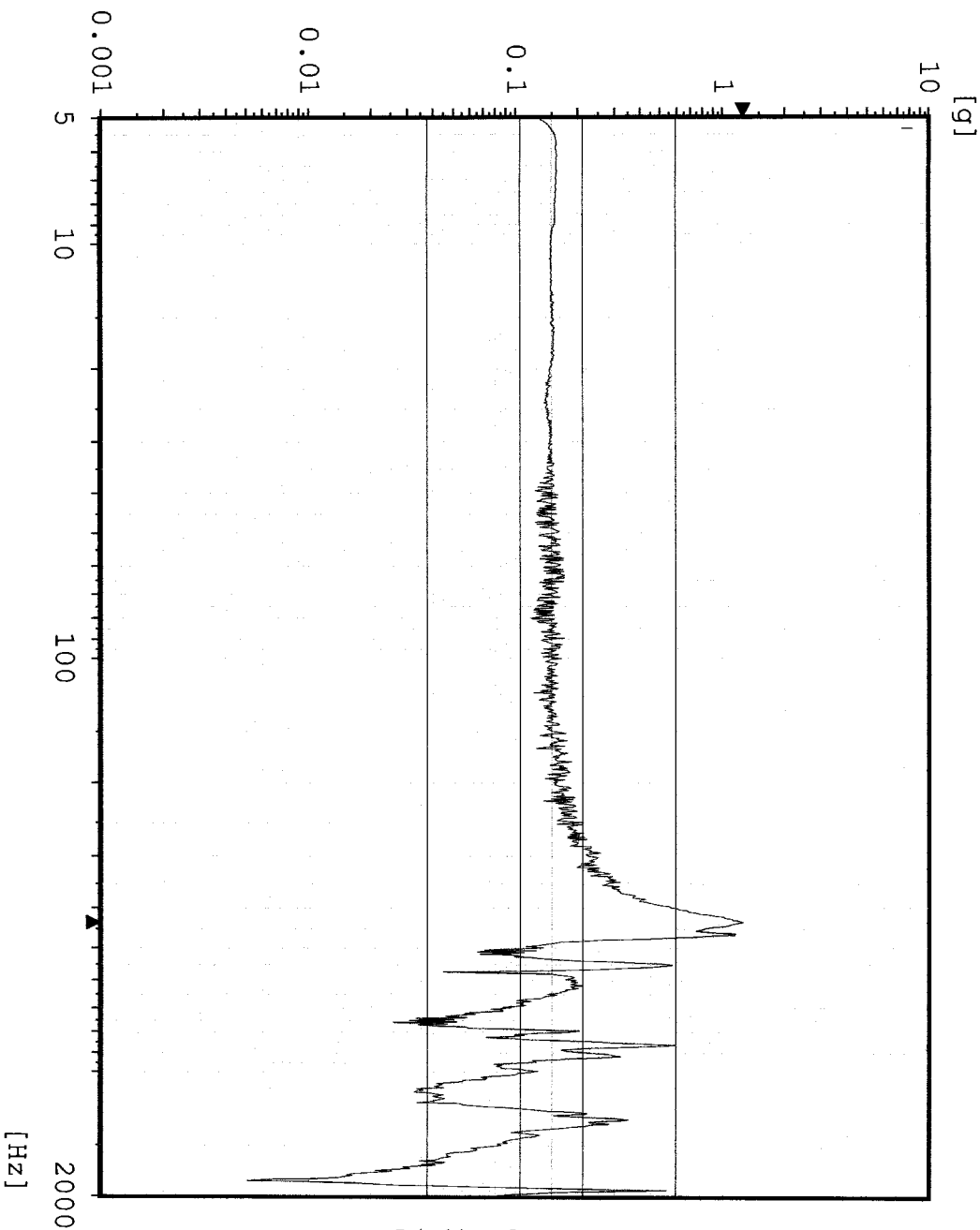
X - axis Post Random
Acceptance Unit
GIAT 1845
  
```

Sine AX4 TPS top edge

Stanford Linear Accelerator

J/N 49995.52097

TEM / TPS



```

Chan.no:      3      M Filtered
Chan.type:
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:         07-14-05
Time:         10:05:12

X - axis      Post Random
Acceptance Unit
GLAT 1845

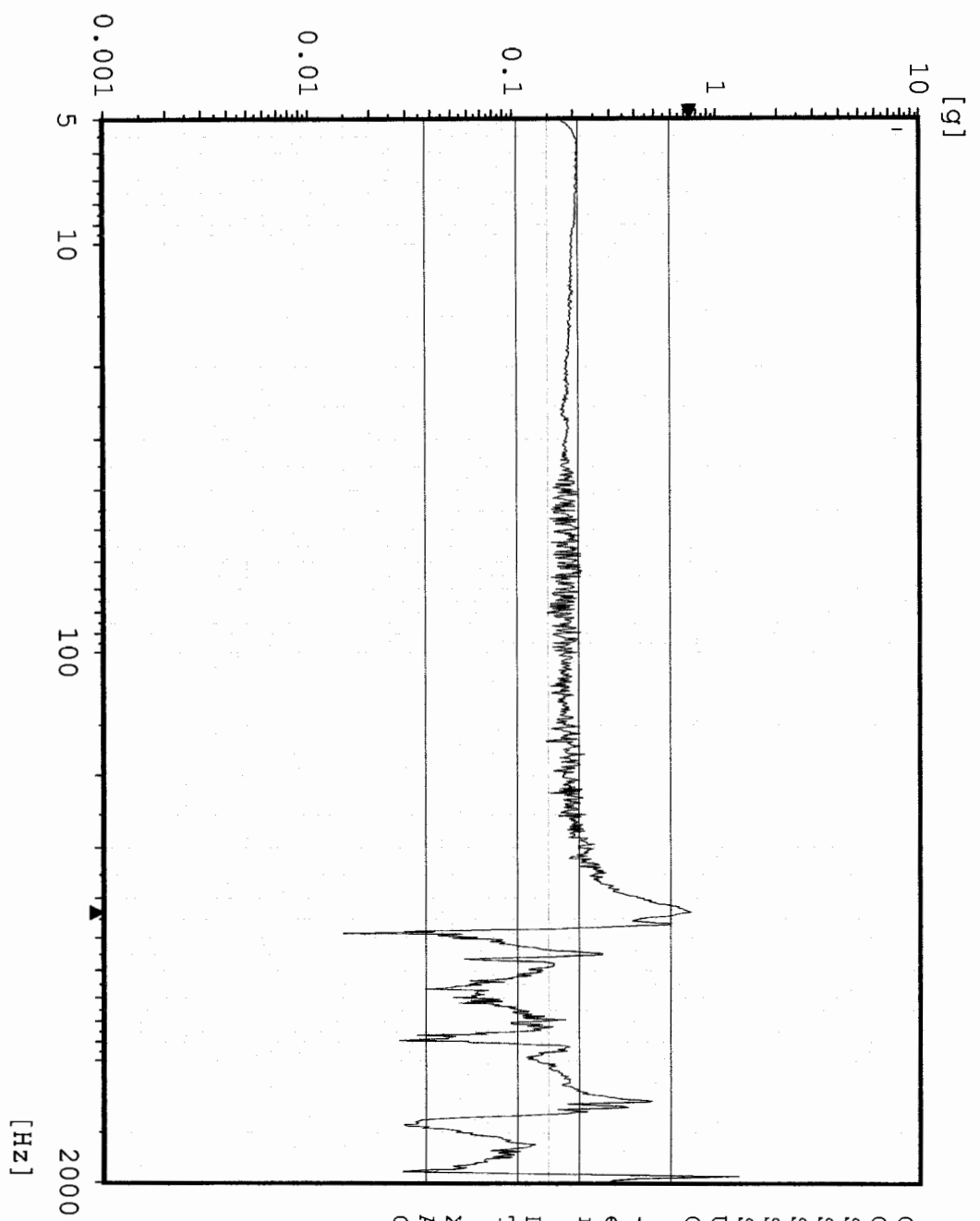
```

Sine AXI TEM center edge

Stanford Linear Accelerator

J/N 49995.52097

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

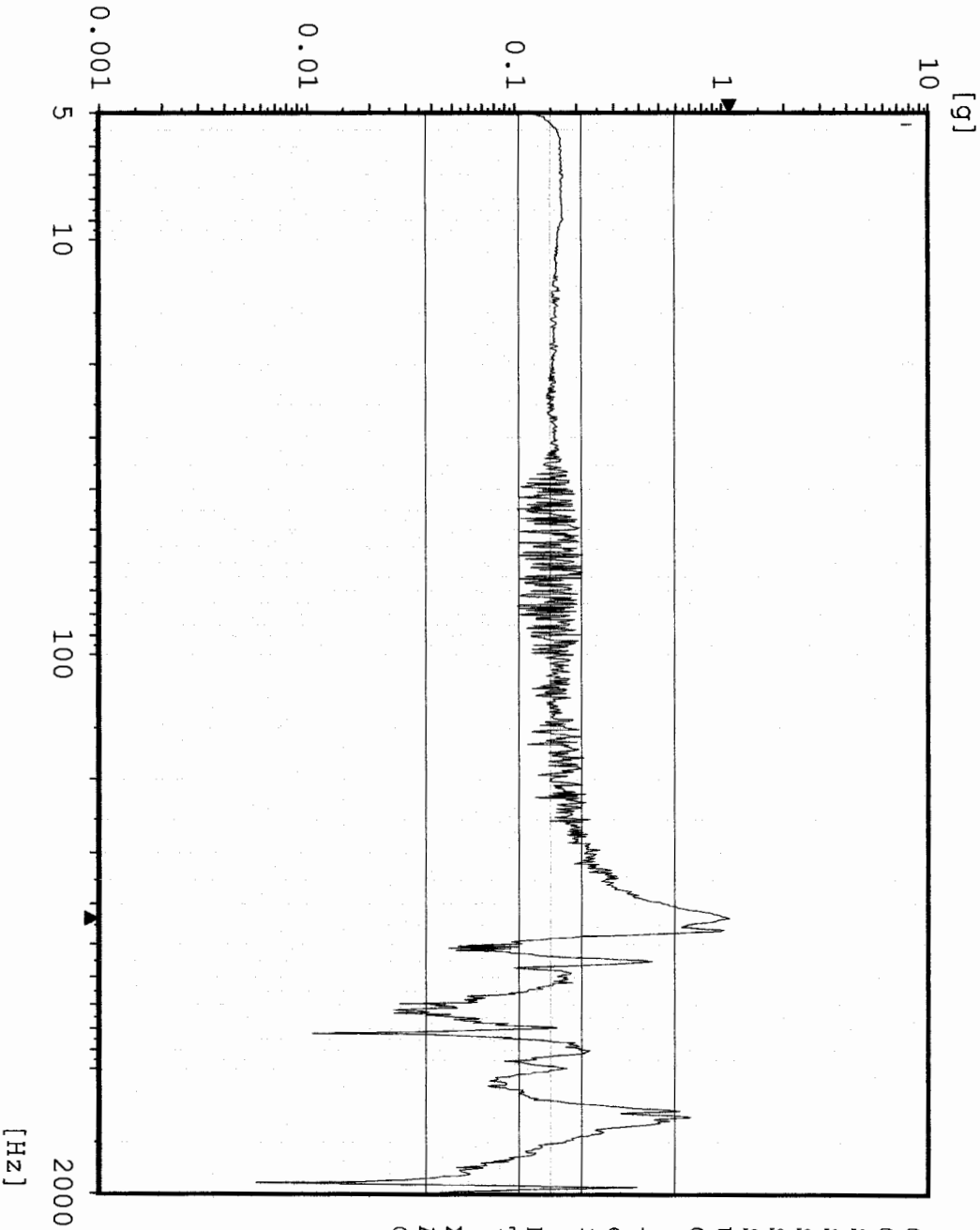
-- Testing time --
elapsed: 000:04:18
remaining: 000:00:00

Date: 07-14-05
Time: 10:05:12

X - axis Post Random
Acceptance Unit
GLAT 1845
  
```

Sine AX2 TPS CG

Stanford Linear Accelerator
J/N 49995.52097
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: 07-14-05
 Time: 10:05:12

X - axis Post Random
 Acceptance Unit
 GLAT 1845

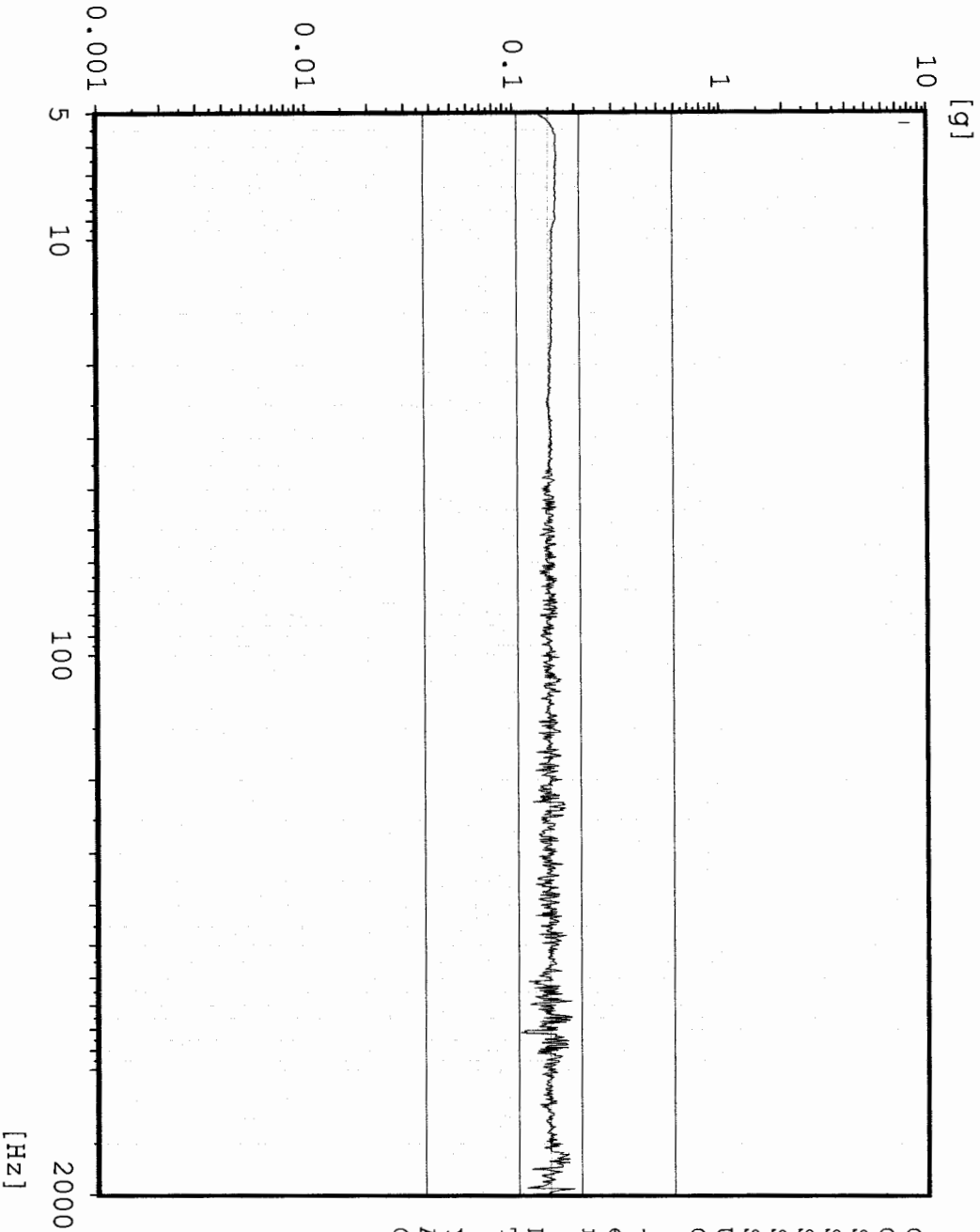
Sine

CY1 Y-Axis Control

Stanford Linear Accelerator

J/N 49995.52097

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: 07-14-05
Time: 10:24:12

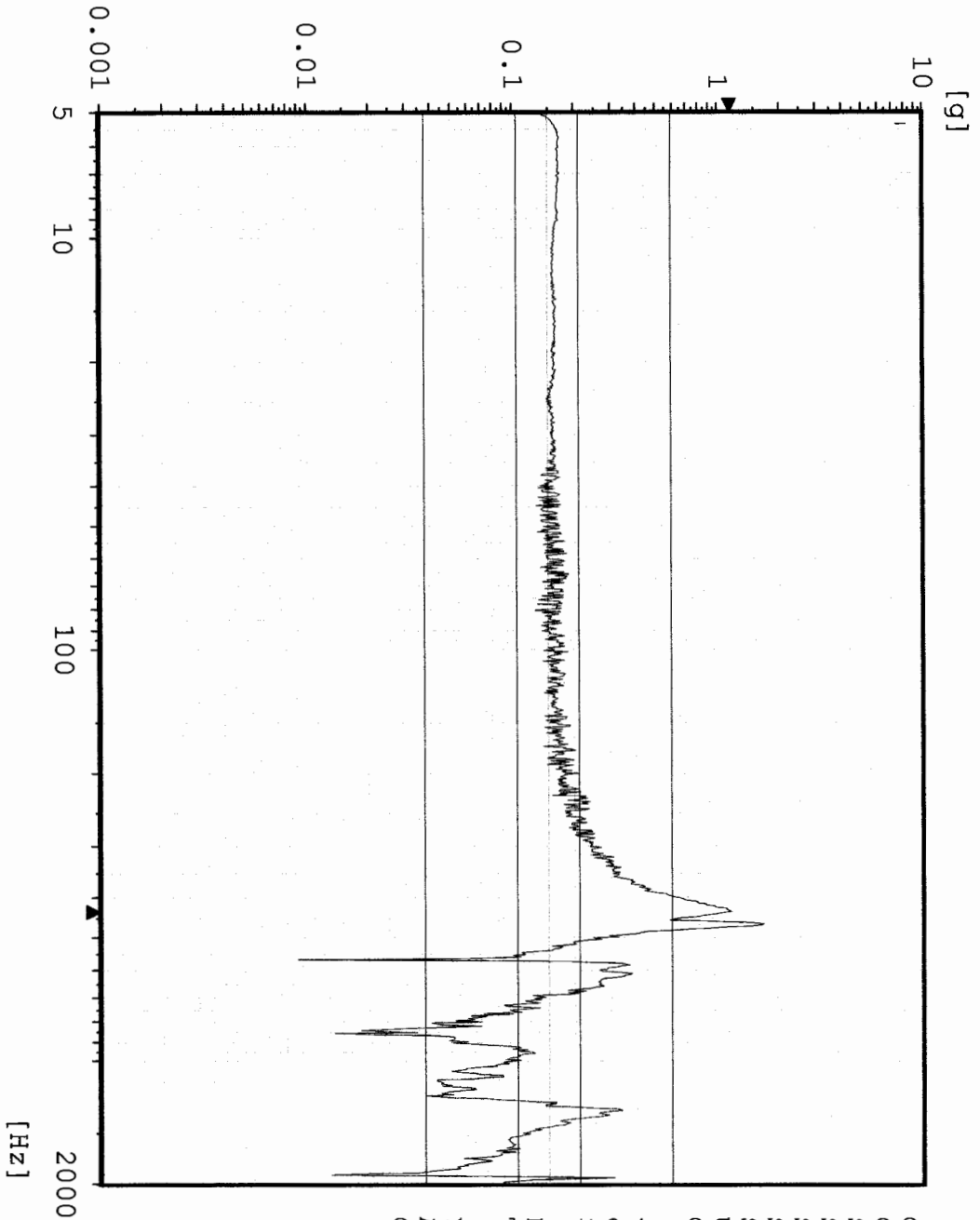
Y - axis Pre Random
Acceptance Unit
GLAT 1845
  
```

Sine AY3 TPS Top Center

Stanford Linear Accelerator

J/N 49995.52097

TEM / TPS



[g]

[Hz]

Chan.no: 2 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: 07-14-05
 Time: 10:24:12

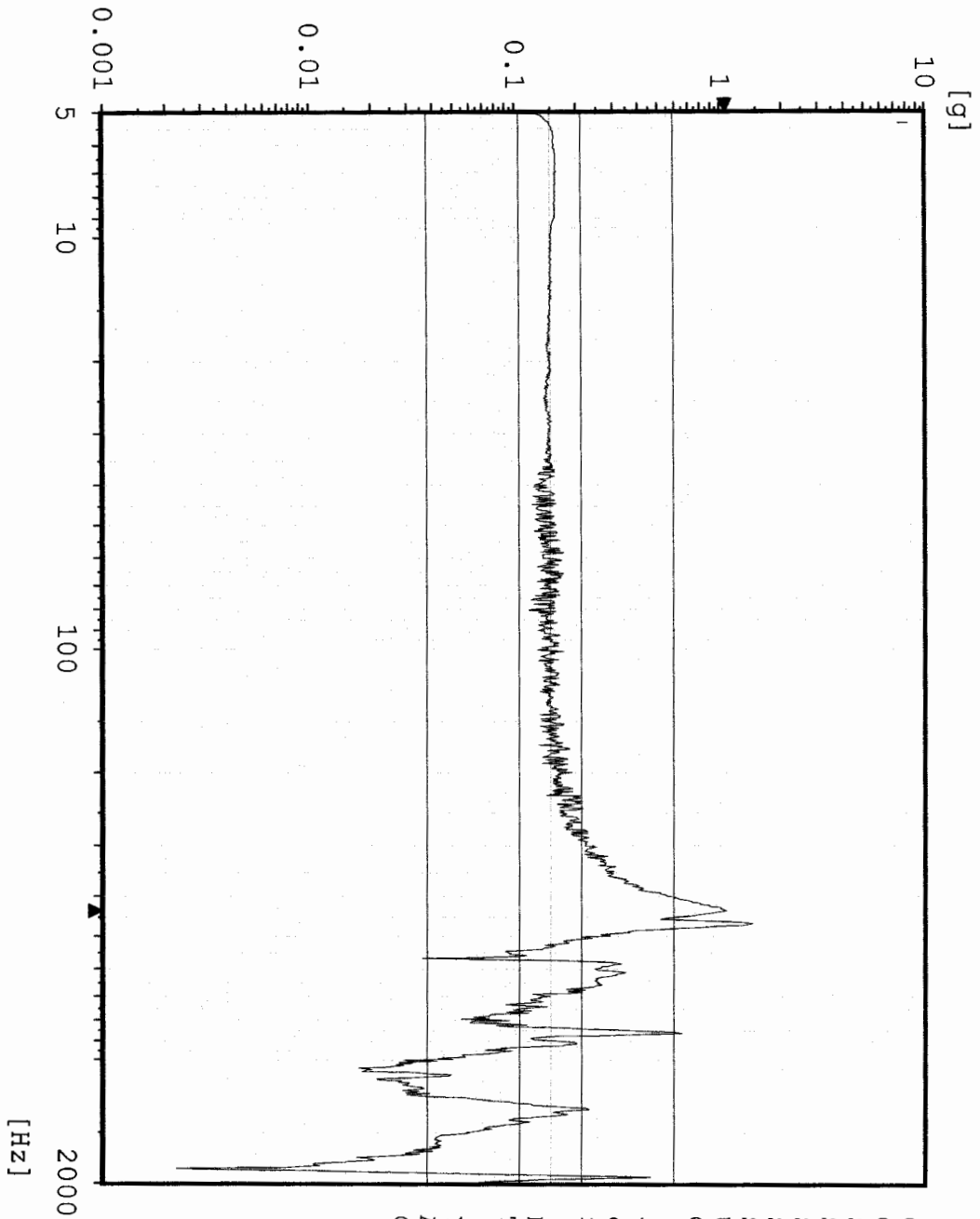
Y - axis Pre Random
 Acceptance Unit
 GIAT 1845

Sine AYA TPS Top Edge

Stanford Linear Accelerator

J/N 49995.52097

TEM / TPS



Chan.no: 3 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: 07-14-05
 Time: 10:24:12

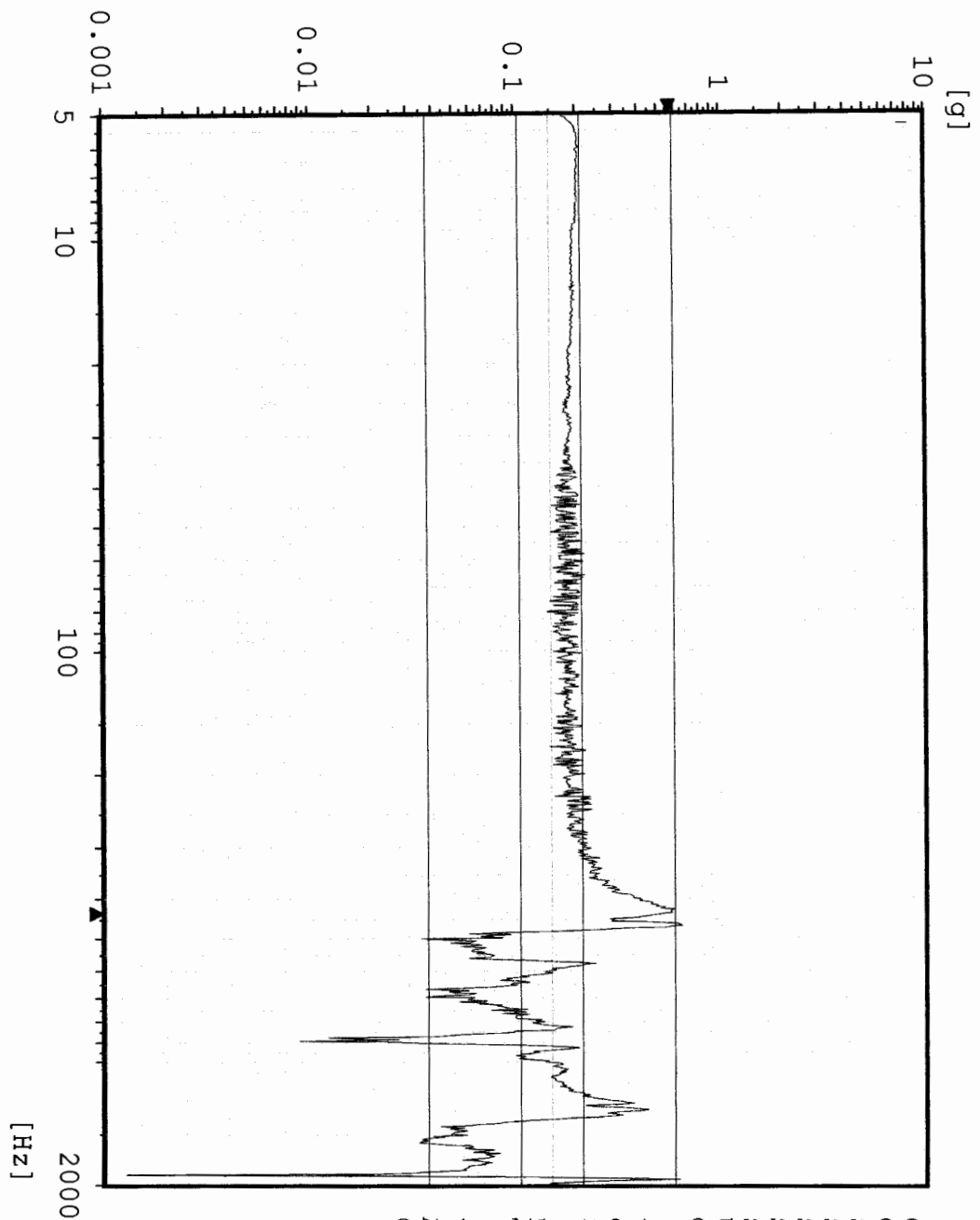
Y - axis Pre Random
 Acceptance Unit
 GIAT 1845

Sine AY1 TEM Center Edge

Stanford Linear Accelerator

J/N 49995.52097

TEM / TPS



```

Chan.no: 5 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: 07-14-05
Time: 10:24:12

```

```

Y - axis Pre Random
Acceptance Unit
GLAT 1845

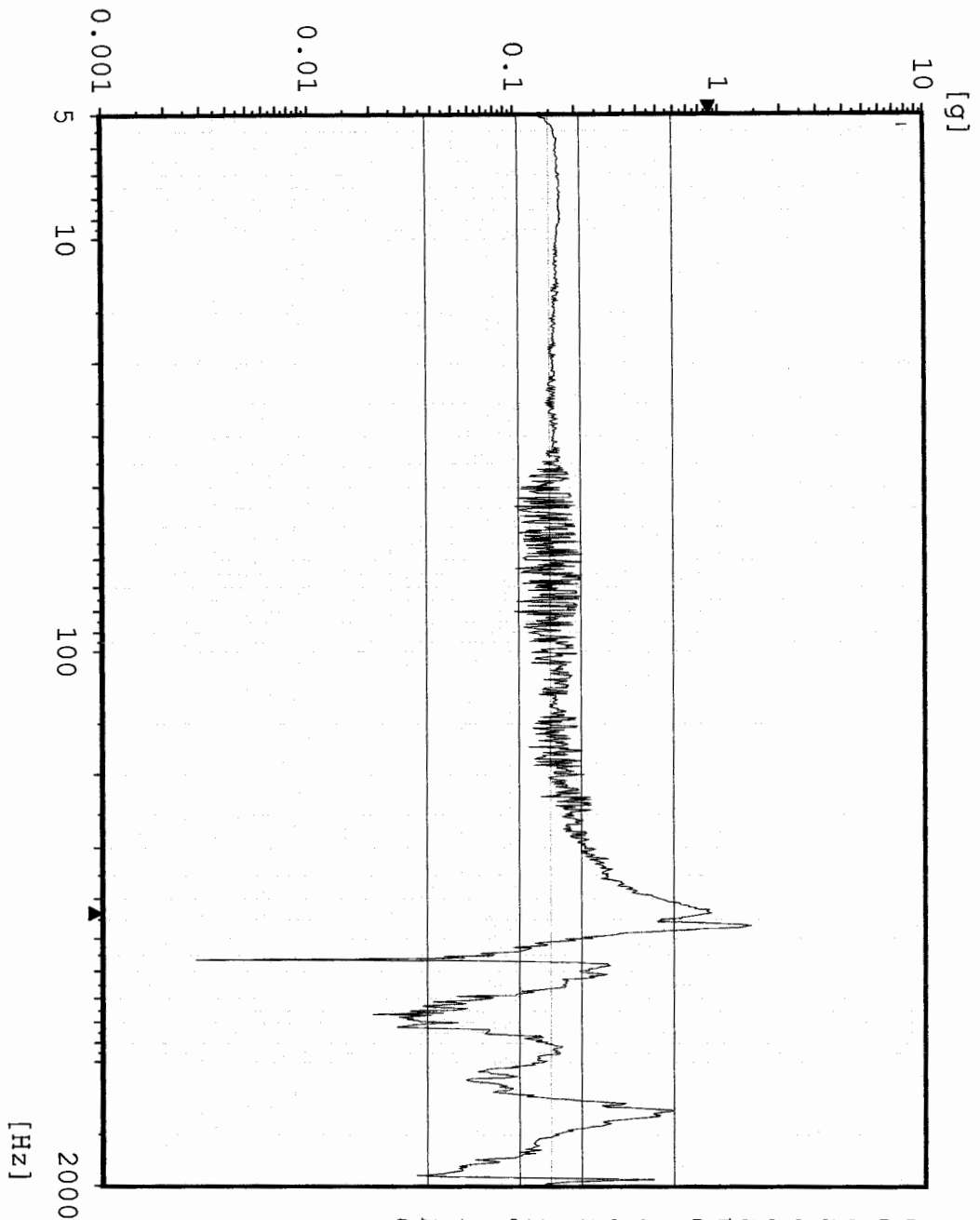
```

Sine AY2 TPS CG

Stanford Linear Accelerator

J/N 49995.52097

TEM / TPS



```

Chan.no: 10 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: 07-14-05
Time: 10:24:12

Y - axis Pre Random
Acceptance Unit
GLAT 1845
  
```

Random

CY1 Y-Axis Control

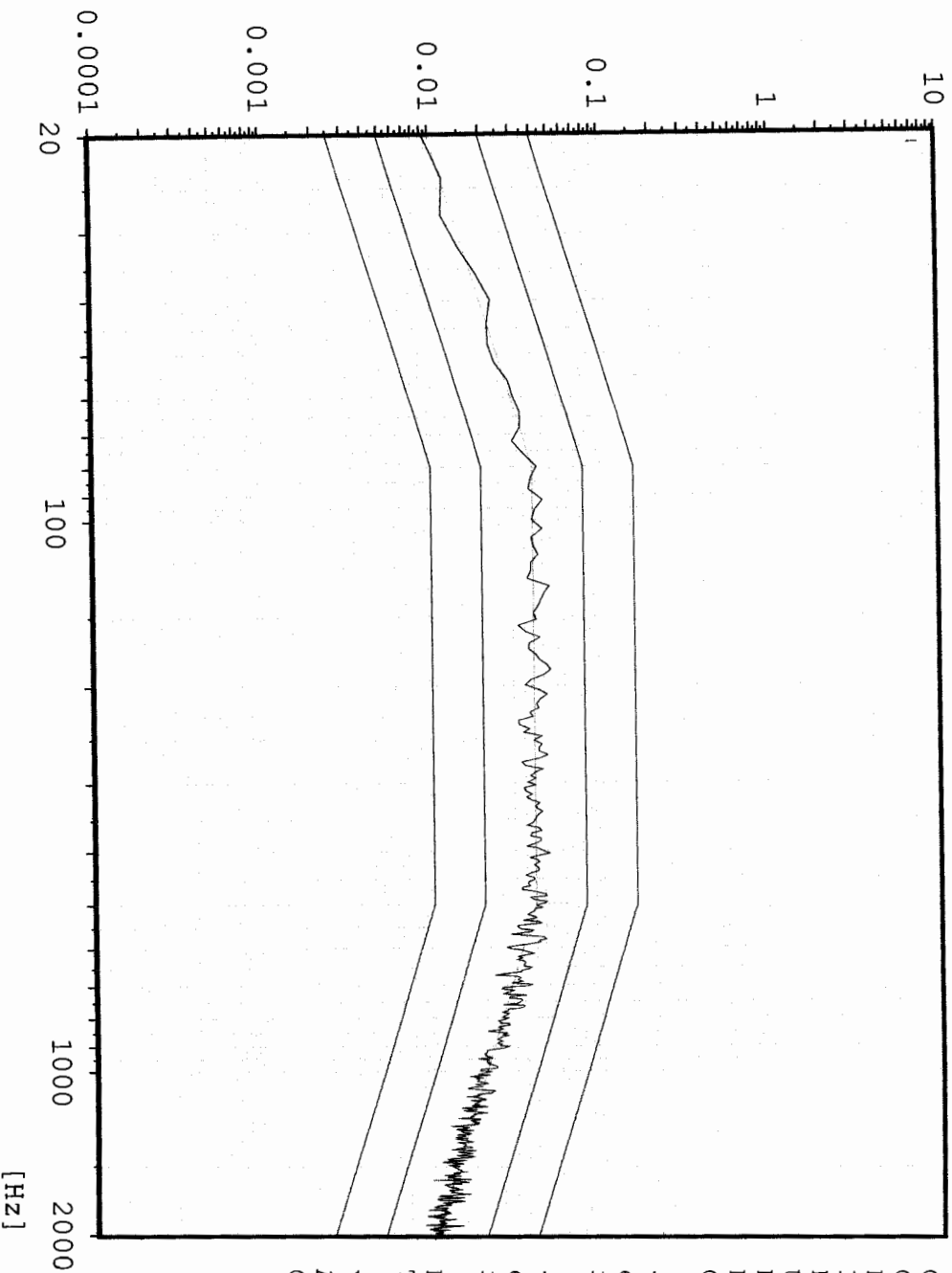
Stanford Linear Accelerator

J/N 49995.52097

TEM & TPS



[g²/Hz]



```

Chan.no:      1
Chan.type:    C
DOF:          126
Level:        0.0 dB
Resolution:   4 Hz
Unit:         g²/Hz
RMS (act.):   6.814 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:      000:02:54
remaining:    000:00:00

```

```

Date:         07-14-05
Time:         10:34:41

```

```

Y - Axis
Acceptance Unit
GIAT 1845

```

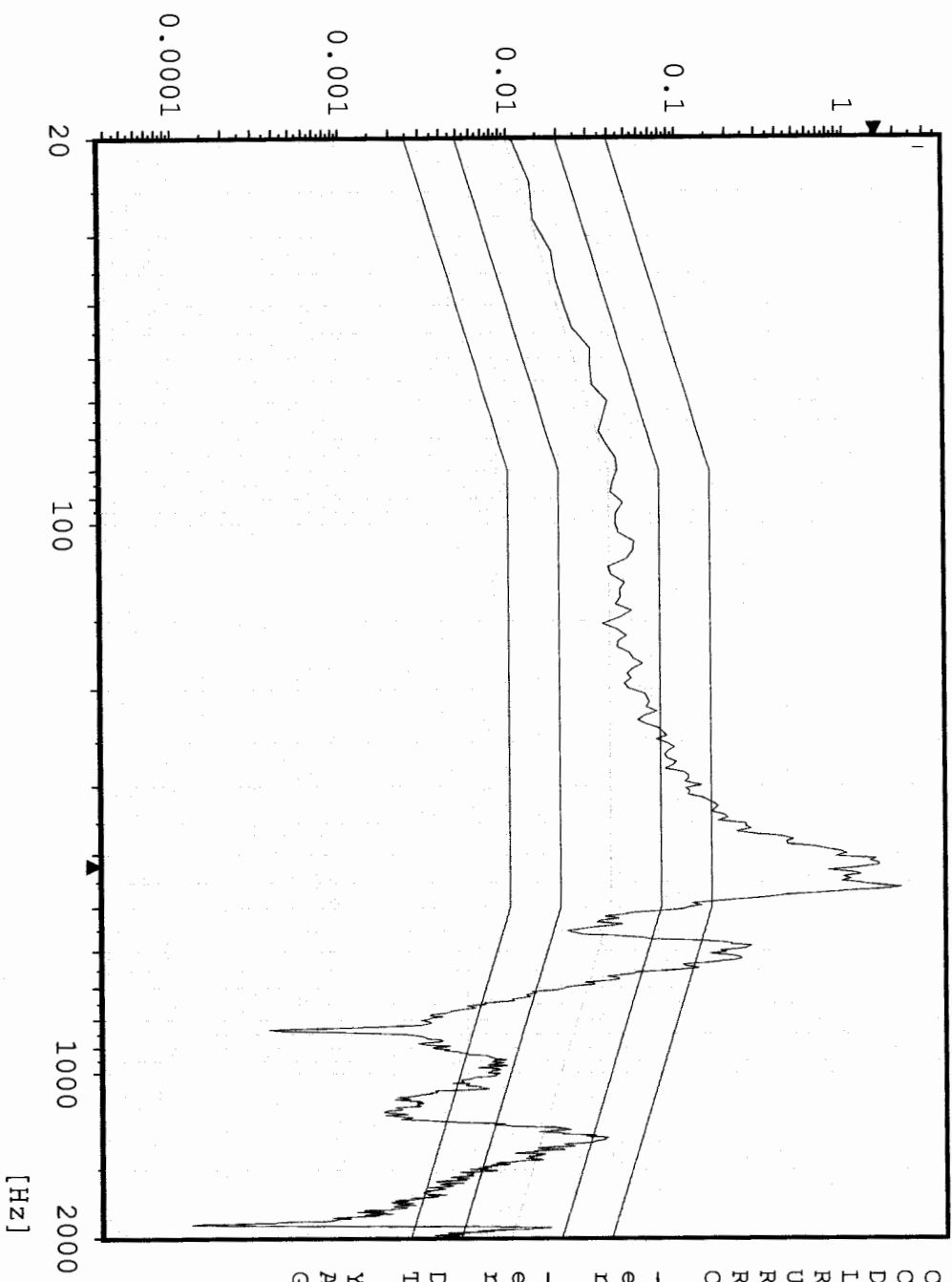
Random AY3 TPS Top Center

Stanford Linear Accelerator

J/N 49995.52097

TEM & TPS

[g²/Hz]



Chan.no: 2
 Chan.type: M
 DOF: 100
 Level: 0.0 dB
 Resolution: 4 Hz
 Unit: g²/Hz
 RMS (act.): 13.22 g
 RMS (req.): 6.787 g
 Contr.strat.: Closed loop

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

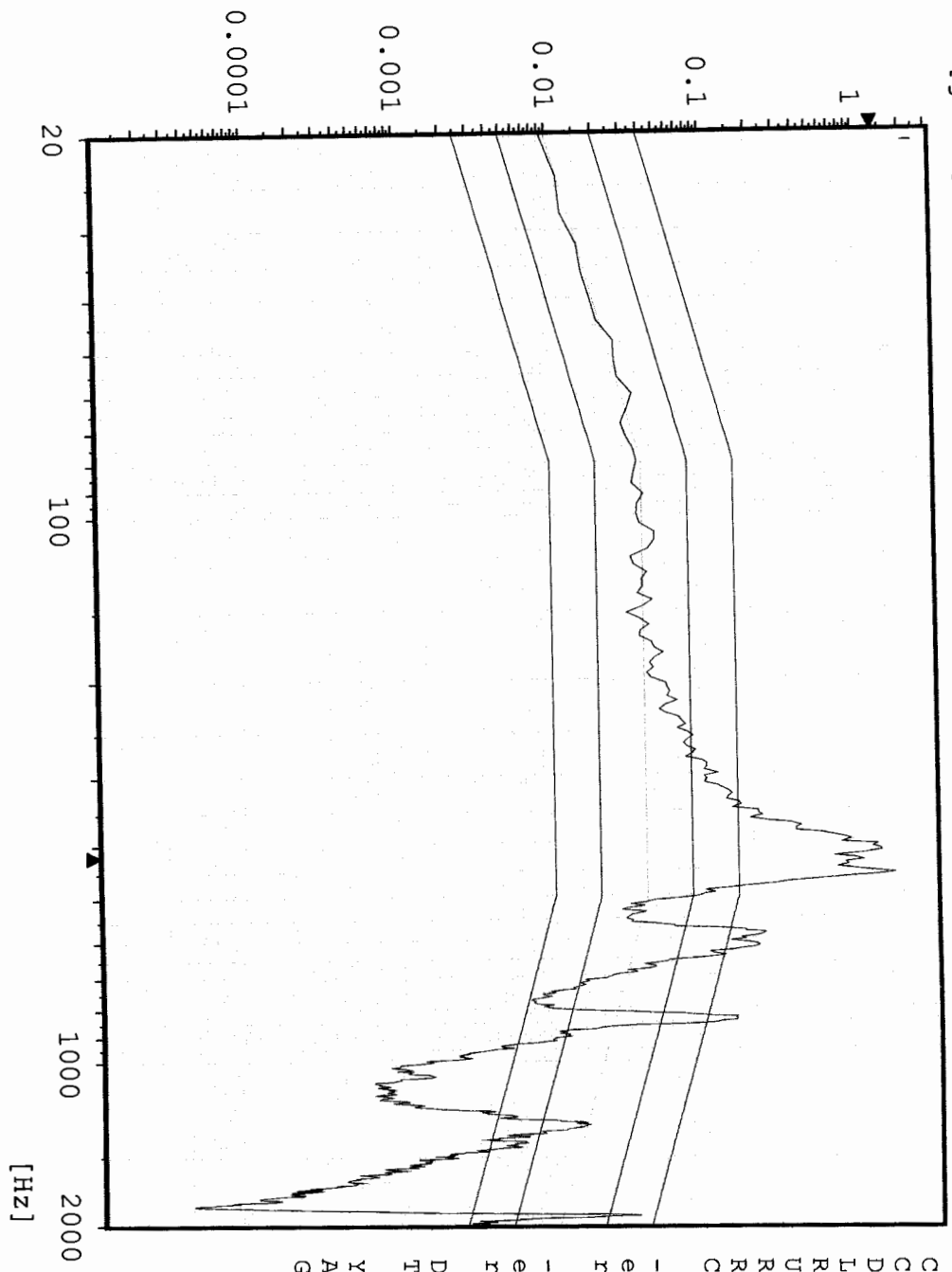
-- Time total --
 elapsed: 000:02:54
 remaining: 000:00:00

Date: 07-14-05
 Time: 10:34:41

Y - Axis
 Acceptance Unit
 GLAT 1845

Random AY4 TPS Top Edge

Stanford Linear Accelerator
J/N 49995.52097
TEM & TPS



[g²/Hz]

[Hz]

Chan.no: 3
 Chan.type: M
 DOF: 100
 Level: 0.0 dB
 Resolution: 4 Hz
 Unit: g²/Hz
 RMS (act.): 12.19 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: 000:02:54
 remaining: 000:00:00

Date: 07-14-05
 Time: 10:34:41

Y - Axis
 Acceptance Unit
 GIAT 1845

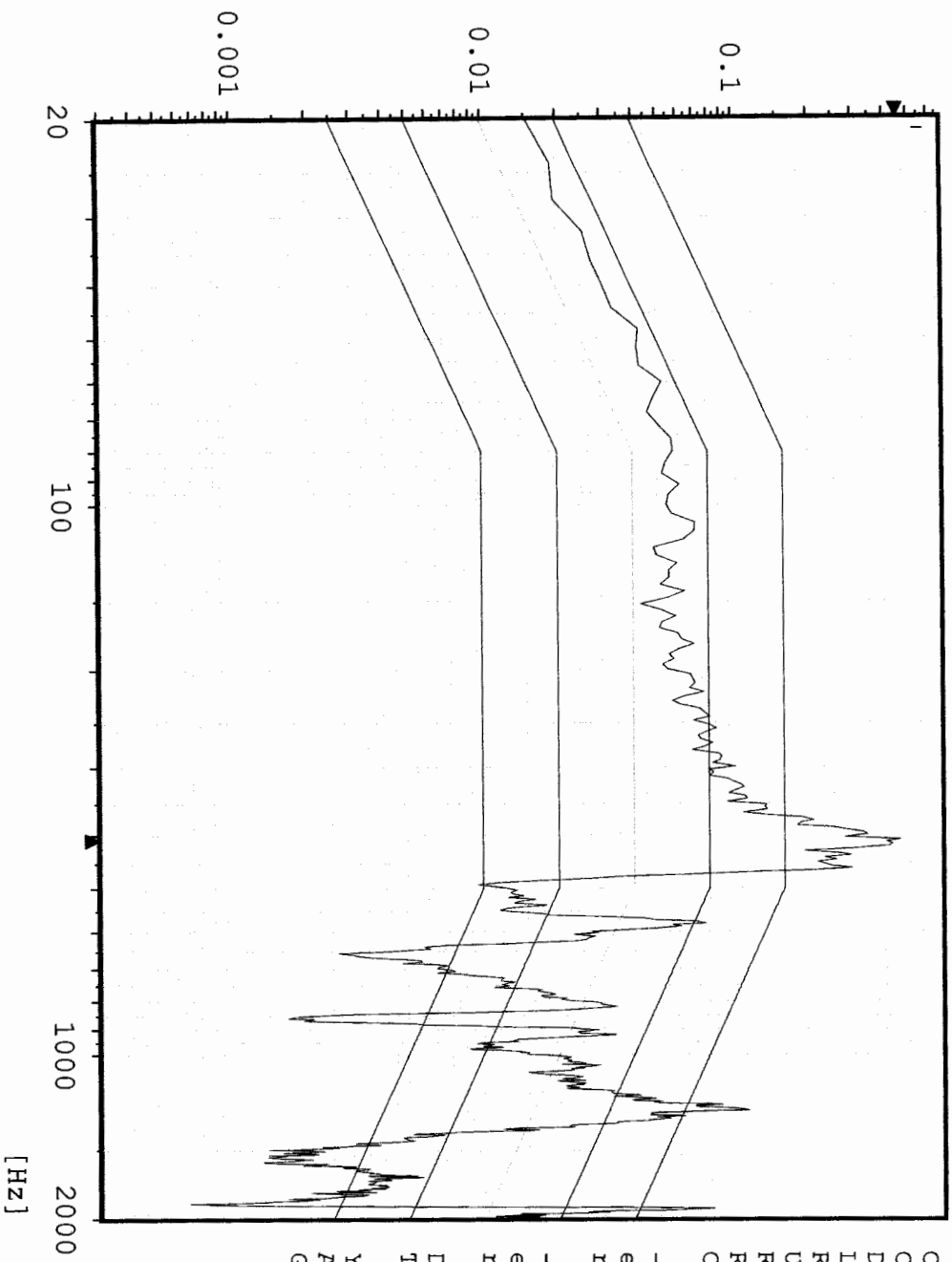
Max: 408 Hz 0.4559 g²/Hz

Random AY1 TEM Center Edge

Stanford Linear Accelerator
J/N 49995.52097
TEM & TPS



[g²/Hz]



Chan.no: 5

Chan.type: M

DOF: 100

Level: 0.0 dB

Resolution: 4 Hz

Unit: g²/Hz

RMS (act.): 8.895 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: 000:02:54
 remaining: 000:00:00

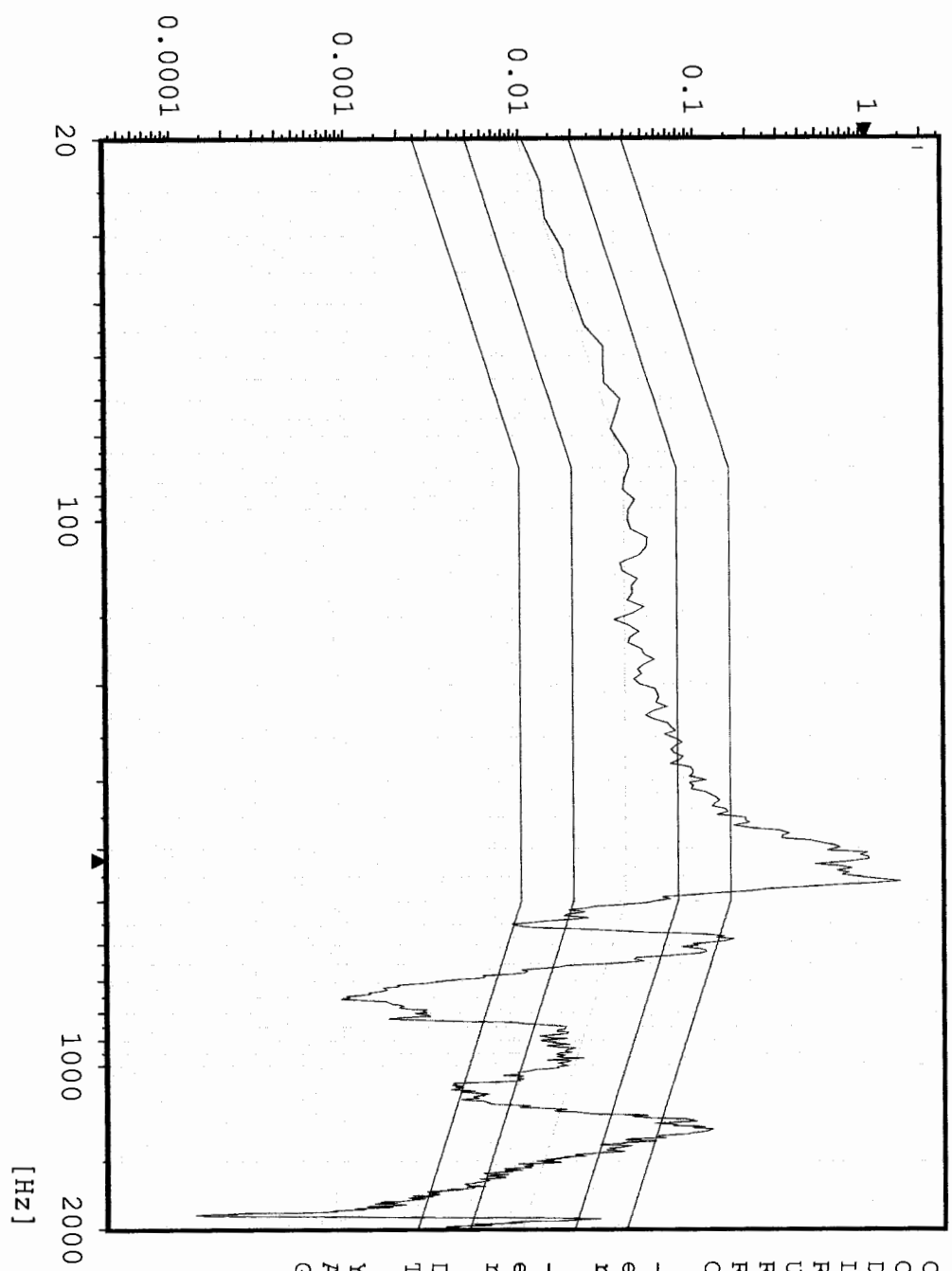
Date: 07-14-05
 Time: 10:34:41

Y - Axis
 Acceptance Unit
 GIAT 1845

Cursor: 420 Hz 0.9836 g²/Hz

Random
Stanford Linear Accelerator
J/N 49995.52097
TEM & TPS
[g²/Hz]

AY2 TPS CG



Chan.no: 10
 Chan.type: M
 DOF: 100
 Level: 0.0 dB
 Resolution: 4 Hz
 Unit: g²/Hz
 RMS (act.): 11.6 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: 000:02:54
 remaining: 000:00:00

Date: 07-14-05
 Time: 10:34:41

Y - Axis
 Acceptance Unit
 GIAT 1845

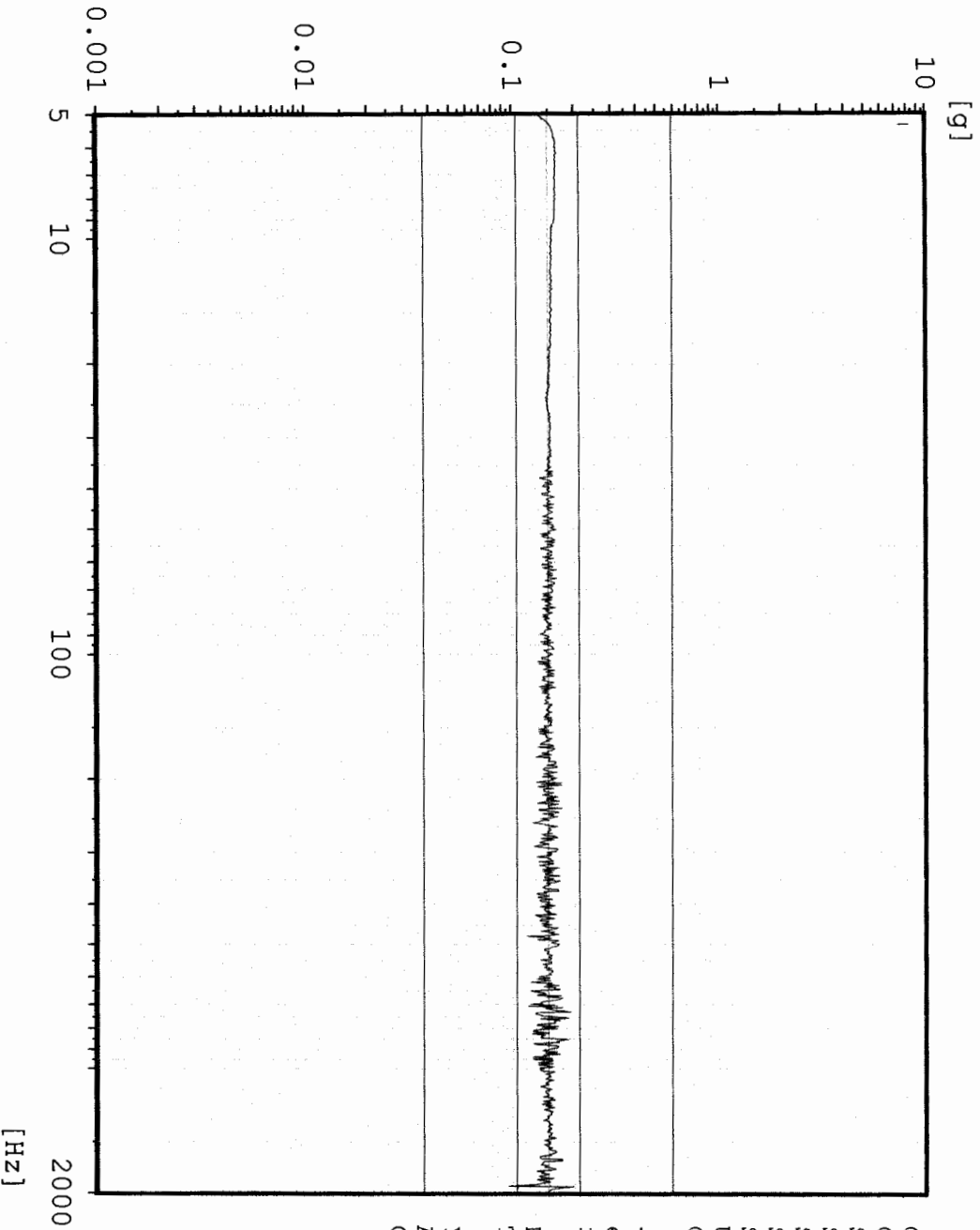
Sine

CY1 Y-Axis Control

Stanford Linear Accelerator

J/N 49995.52097

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: 07-14-05
 Time: 10:44:18

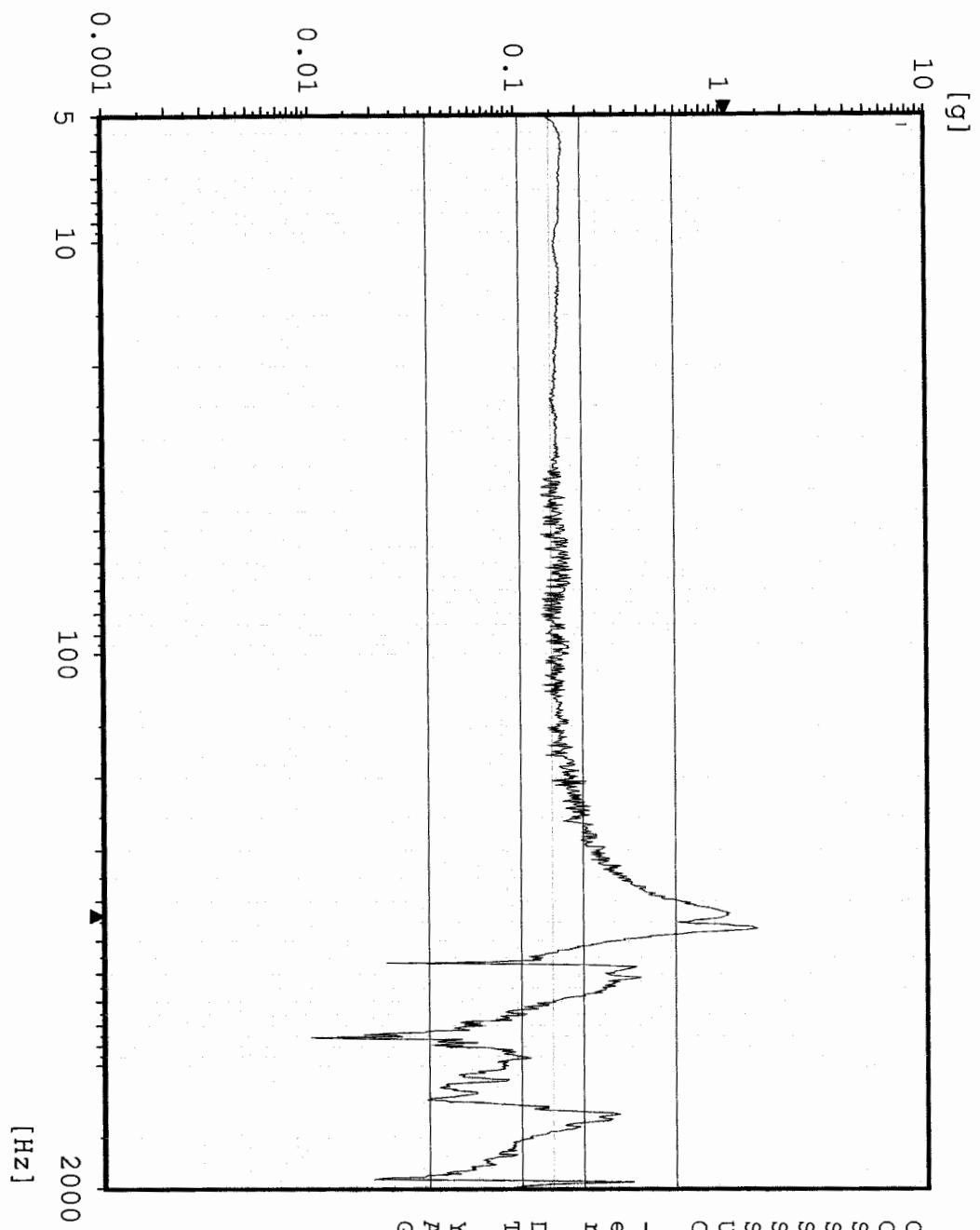
Y - axis Post Random
 Acceptance Unit
 GLAT 1845

Sine AY3 TPS Top Center

Stanford Linear Accelerator

J/N 49995.52097

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
  
```

```

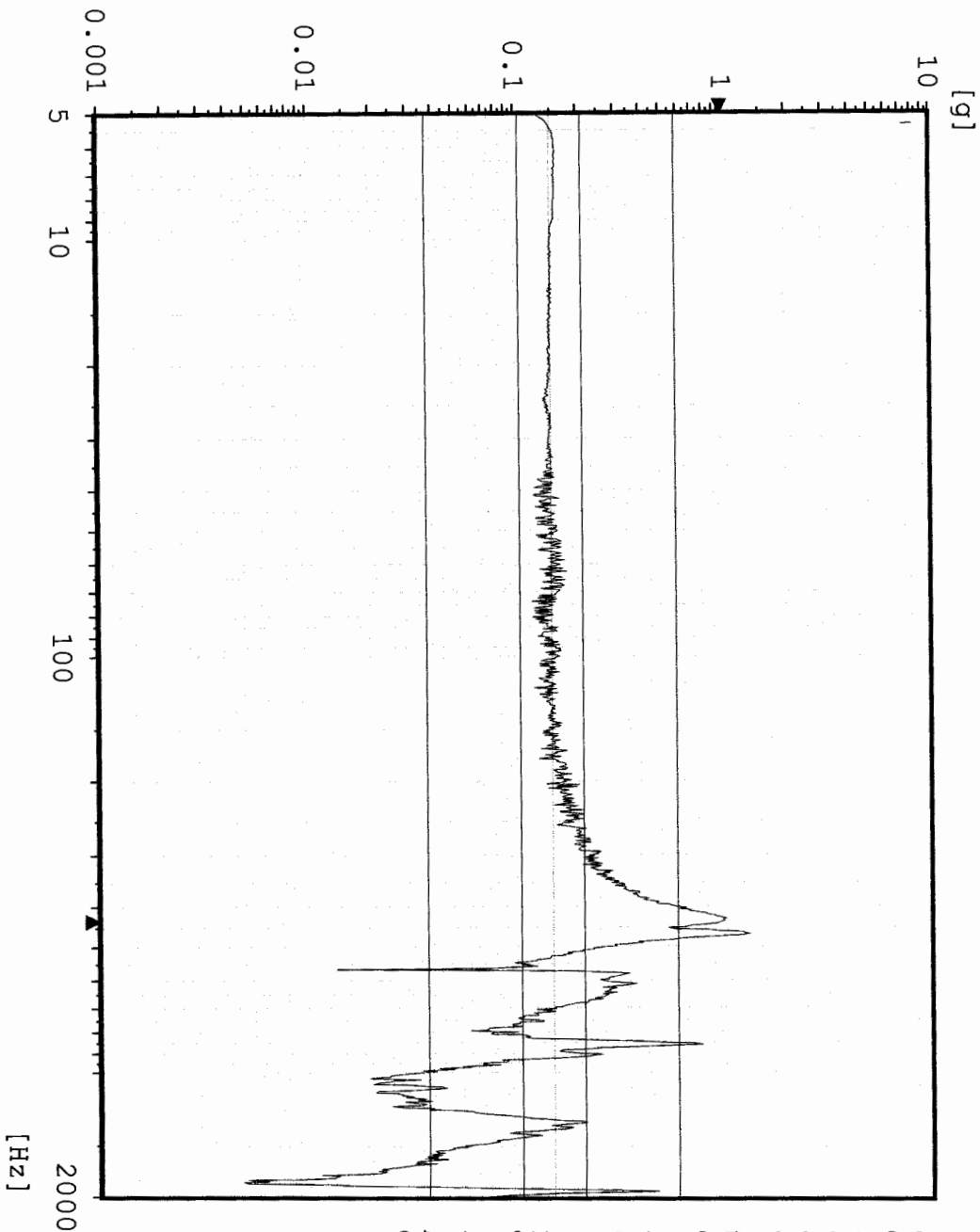
Date:         07-14-05
Time:         10:44:18
  
```

```

Y - axis      Post Random
Acceptance Unit
GIAT 1845
  
```

Sine AY4 TPS Top Edge

Stanford Linear Accelerator
J/N 49995.52097
TEM / TPS



Chan.no: 3 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: 07-14-05
Time: 10:44:18

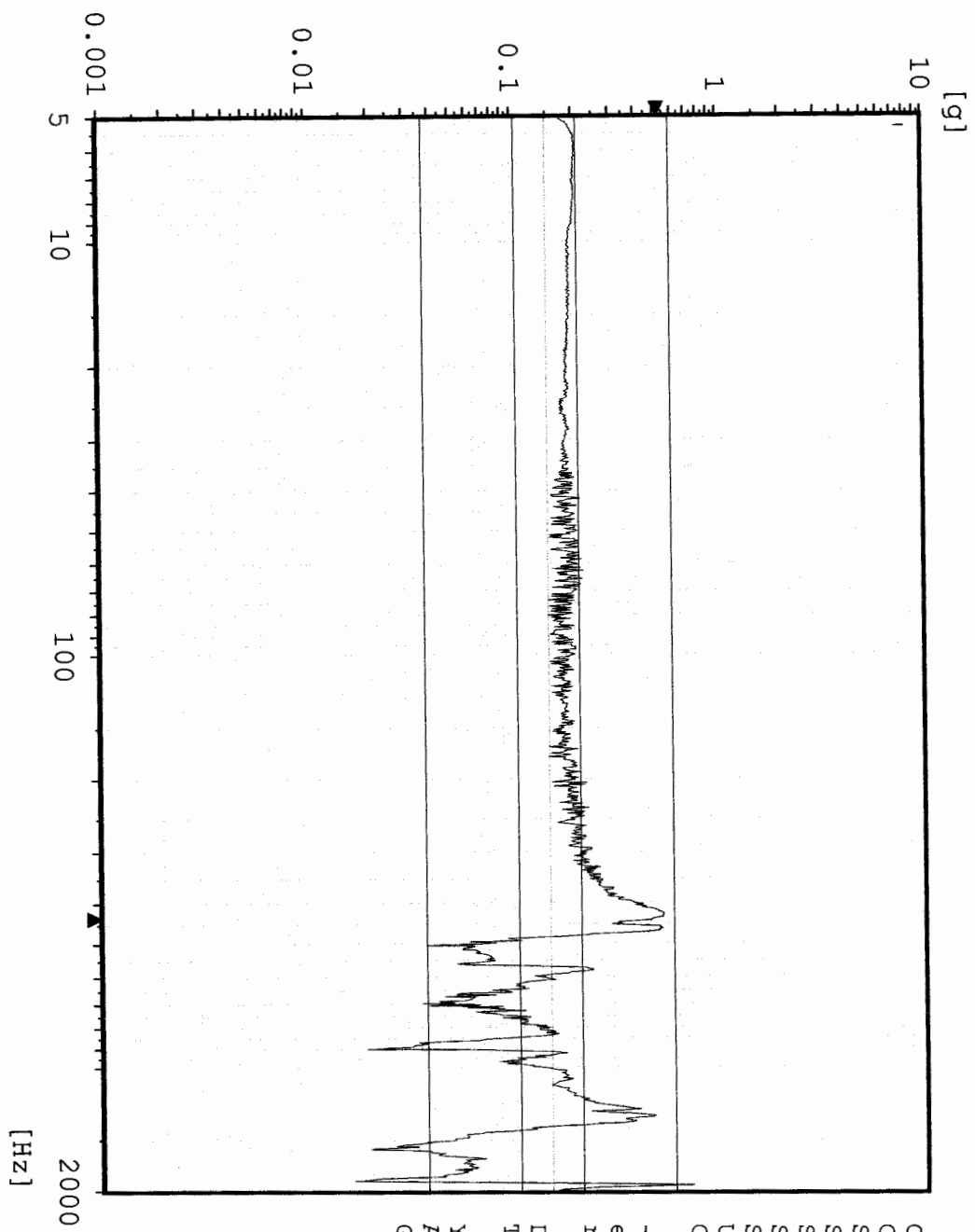
Y - axis Post Random
Acceptance Unit
GIAT 1845

Sine AY1 TEM Center Edge

Stanford Linear Accelerator

J/N 49995.52097

TEM / TPS



[g]

[Hz]

Chan.no: 5 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: 07-14-05
Time: 10:44:18

Y - axis Post Random
Acceptance Unit
GLAT 1845

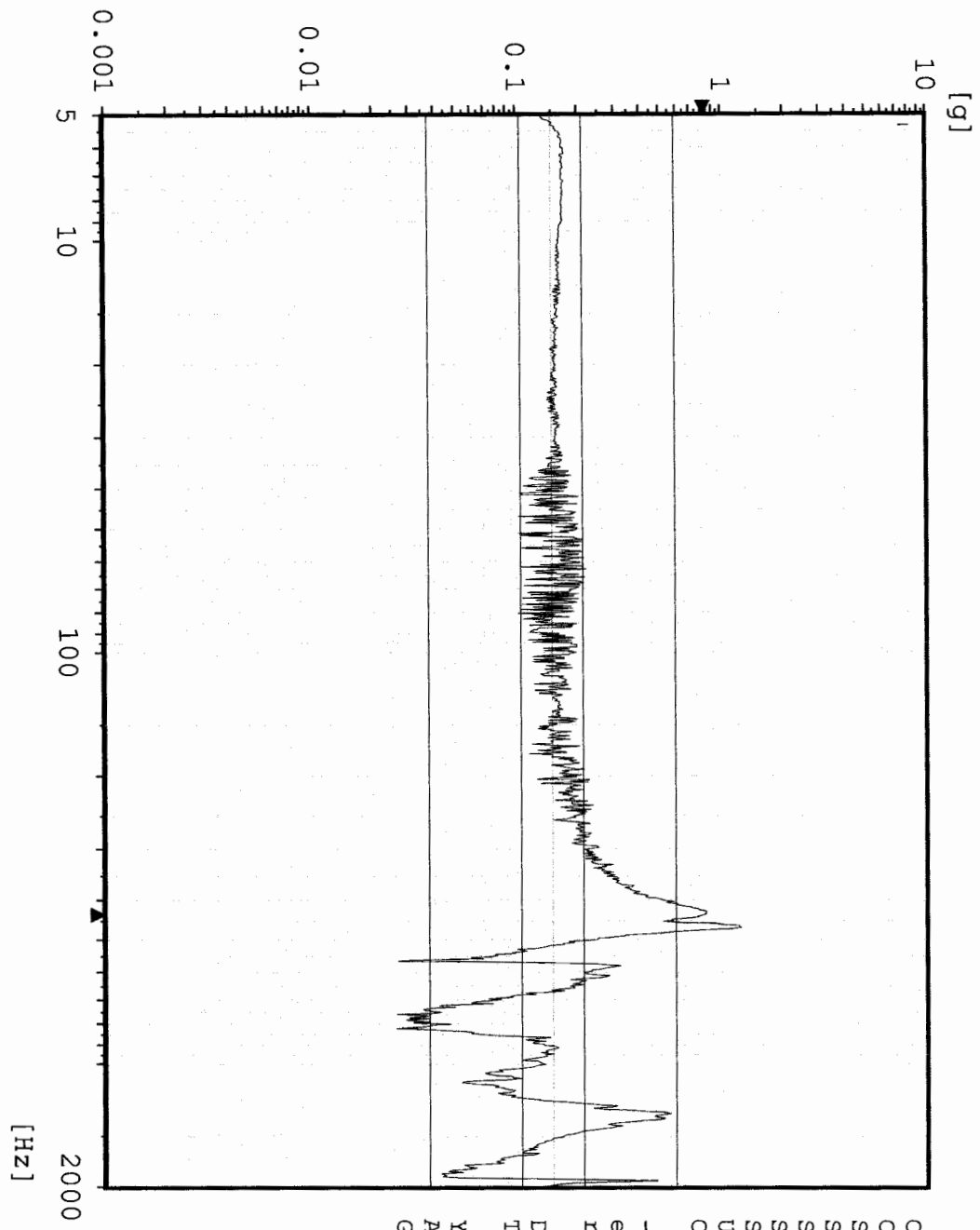
Sine

AY2 TPS CG

Stanford Linear Accelerator

J/N 49995.52097

TEM / TPS



[g]

[Hz]

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: 07-14-05

Time: 10:44:18

Y - axis Post Random

Acceptance Unit

GLAT 1845

Sine

CZ1 Z-Axis Control

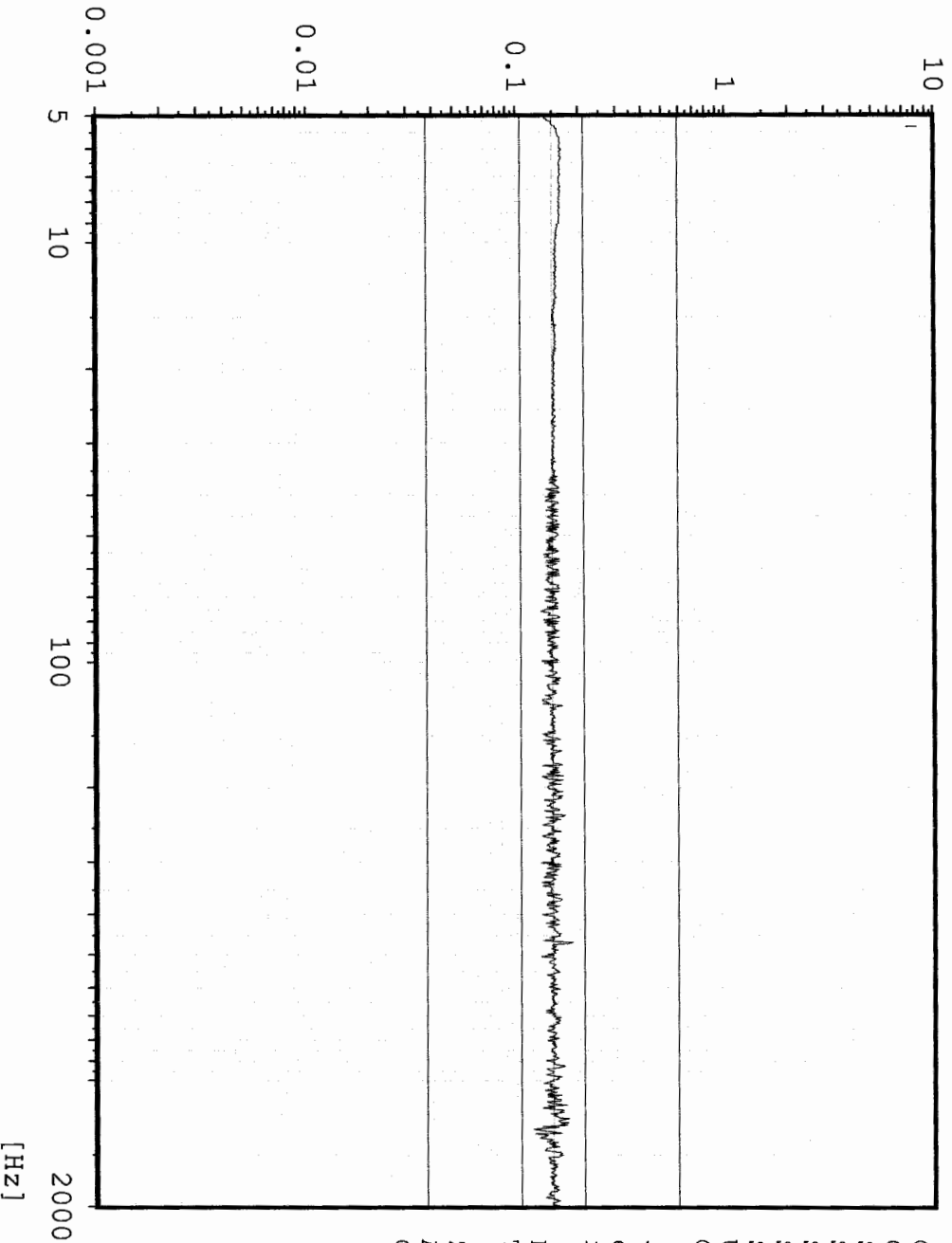
Stanford Linear Accelerator

J/N 49995.52097

TEM / TPS



[g]



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

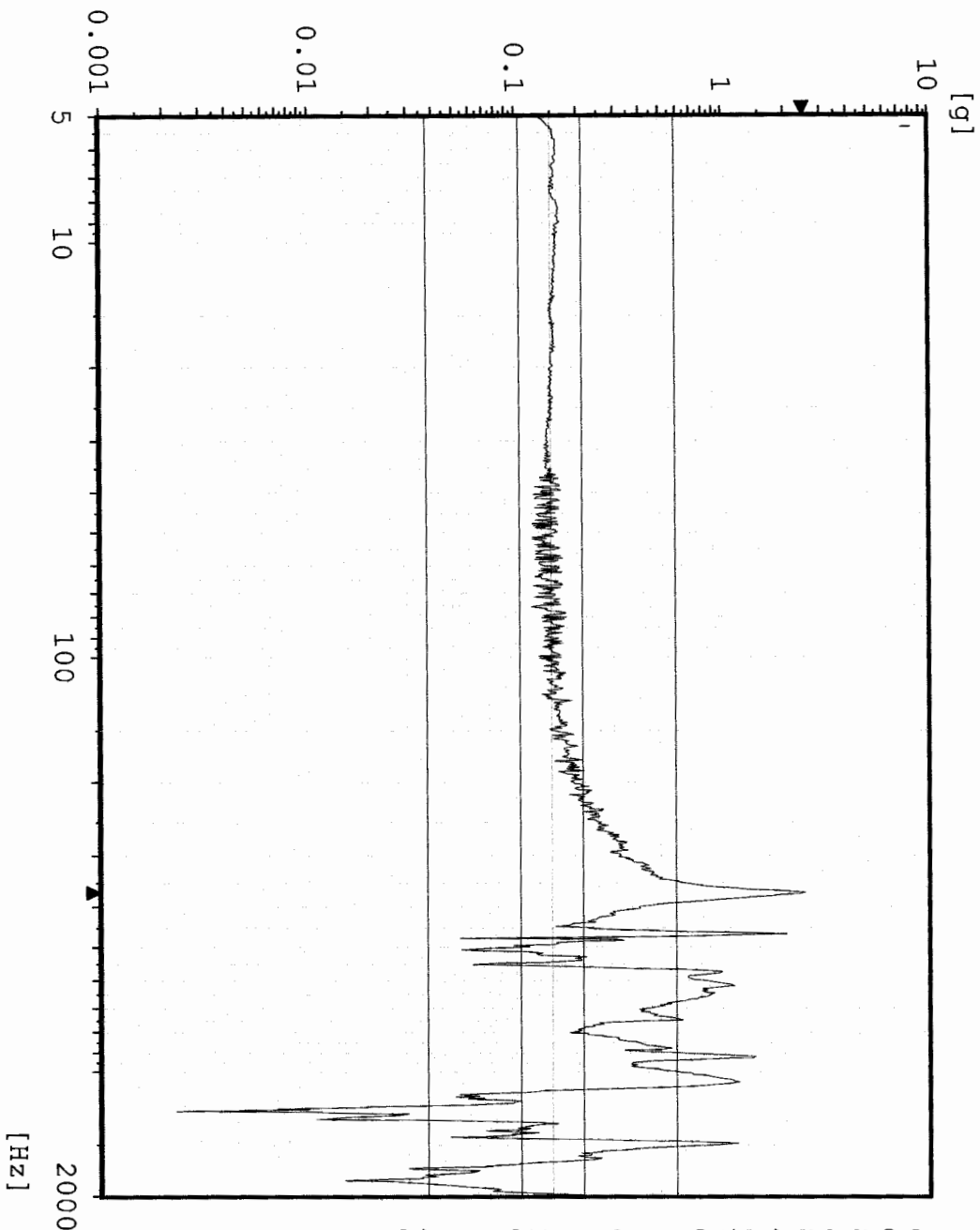
Date: 07-15-05
 Time: 10:54:21

Z - axis Pre Random
 Acceptance Unit
 GIAT 1845

Max: 370.2 Hz 2.495 g

Sine AZ4 TPS Boss 2

Stanford Linear Accelerator
J/N 49995.52097
TEM / TPS



```

Chan.no: 2 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: 07-15-05
Time: 10:54:21

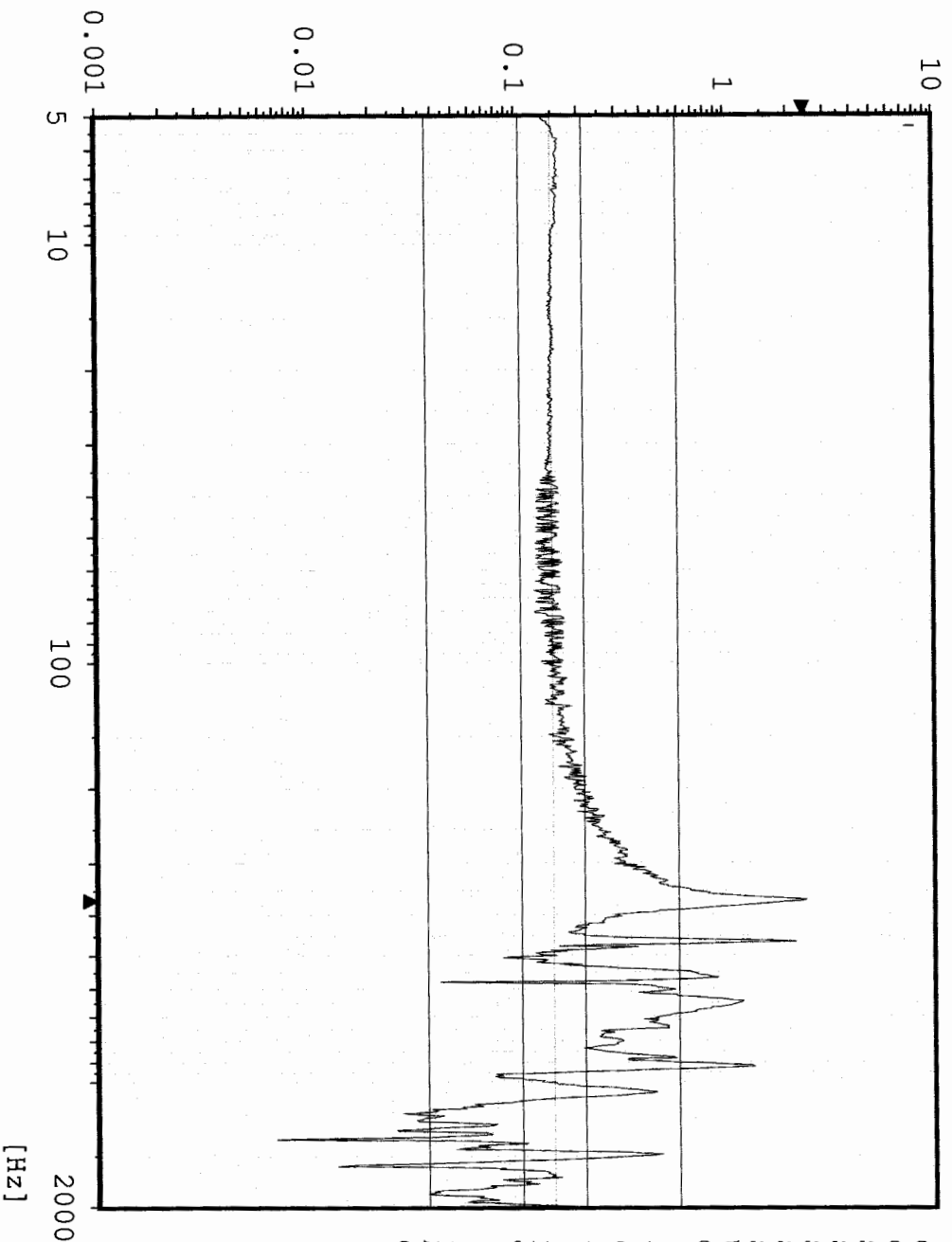
Z - axis Pre Random
Acceptance Unit
GIAT 1845
  
```

Sine AZ3 TPS Boss 1

Stanford Linear Accelerator

J/N 49995.52097

TEM / TPS



[g]

[Hz]

Chan.no: 3 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: 07-15-05
 Time: 10:54:21

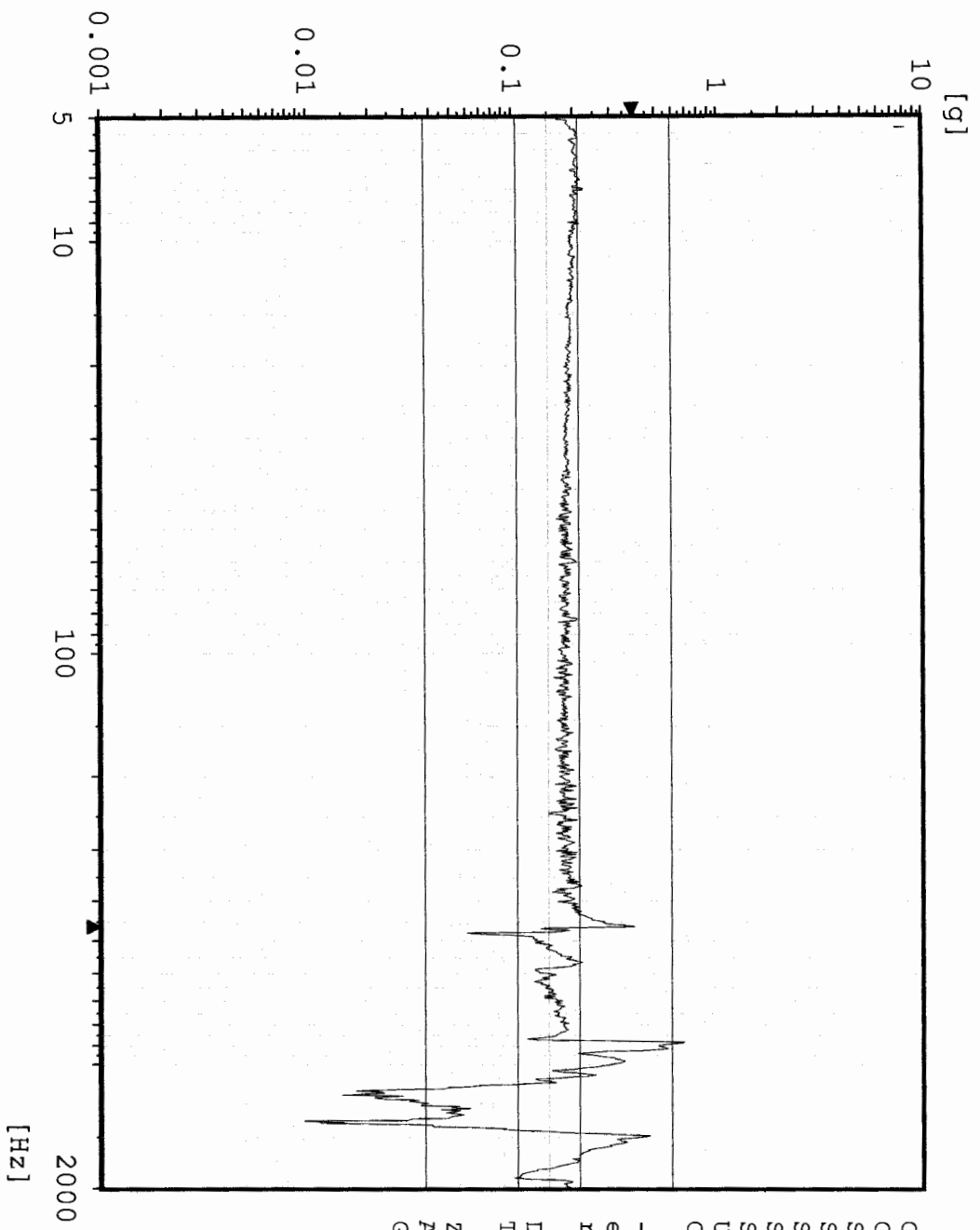
Z - axis Pre Random
 Acceptance Unit
 GLAT 1845

Sine AZ5 TEM Bottom Edge

Stanford Linear Accelerator

J/N 49995.52097

TEM / TPS



```

Chan.no:      5      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:         07-15-05
Time:         10:54:21
  
```

```

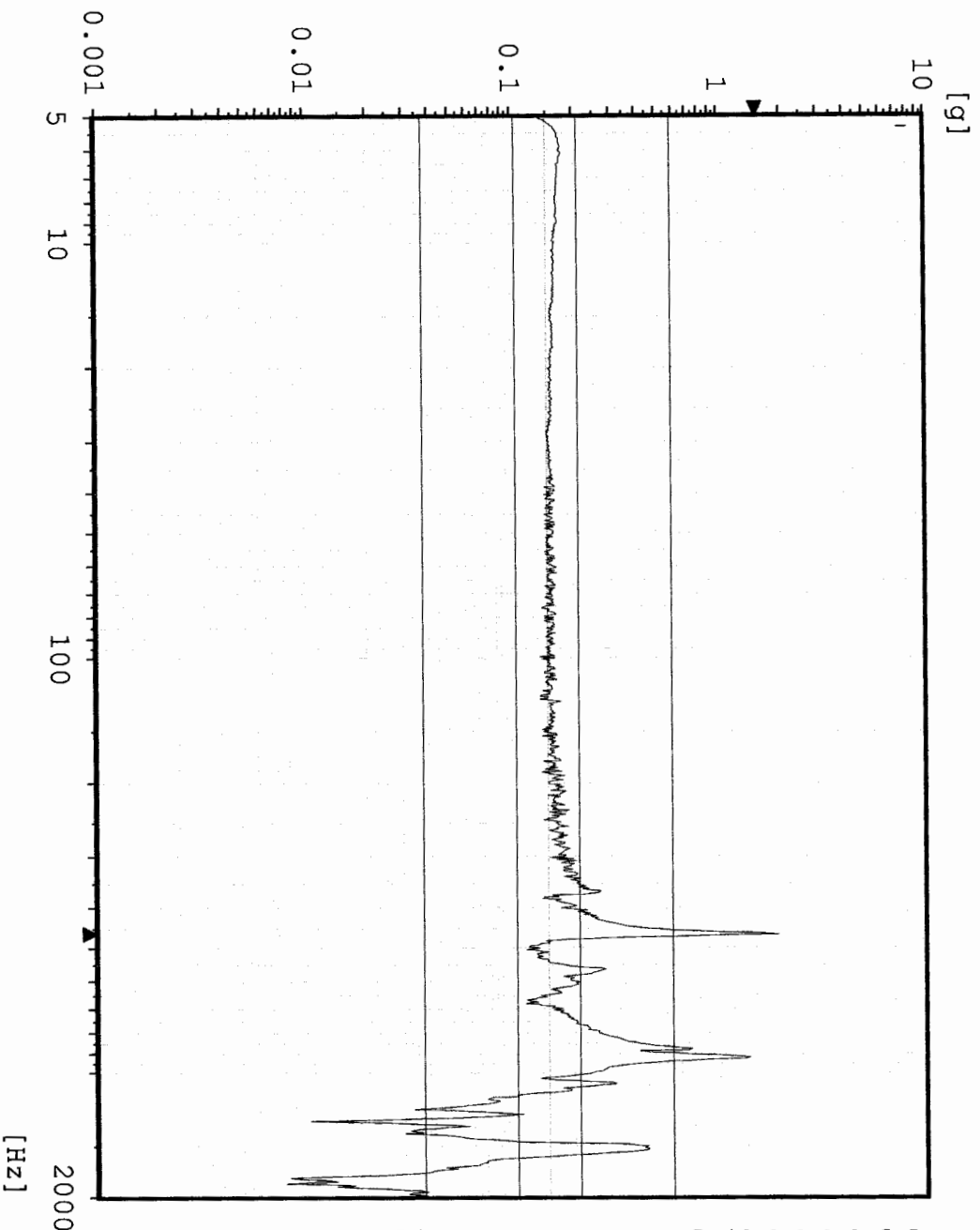
Z - axis      Pre Random
Acceptance Unit
GIAT 1845
  
```

Sine AZ1 TPS Edge Center

Stanford Linear Accelerator

J/N 49995.52097

TEM / TPS



Chan.no: 6 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: 07-15-05
 Time: 10:54:21

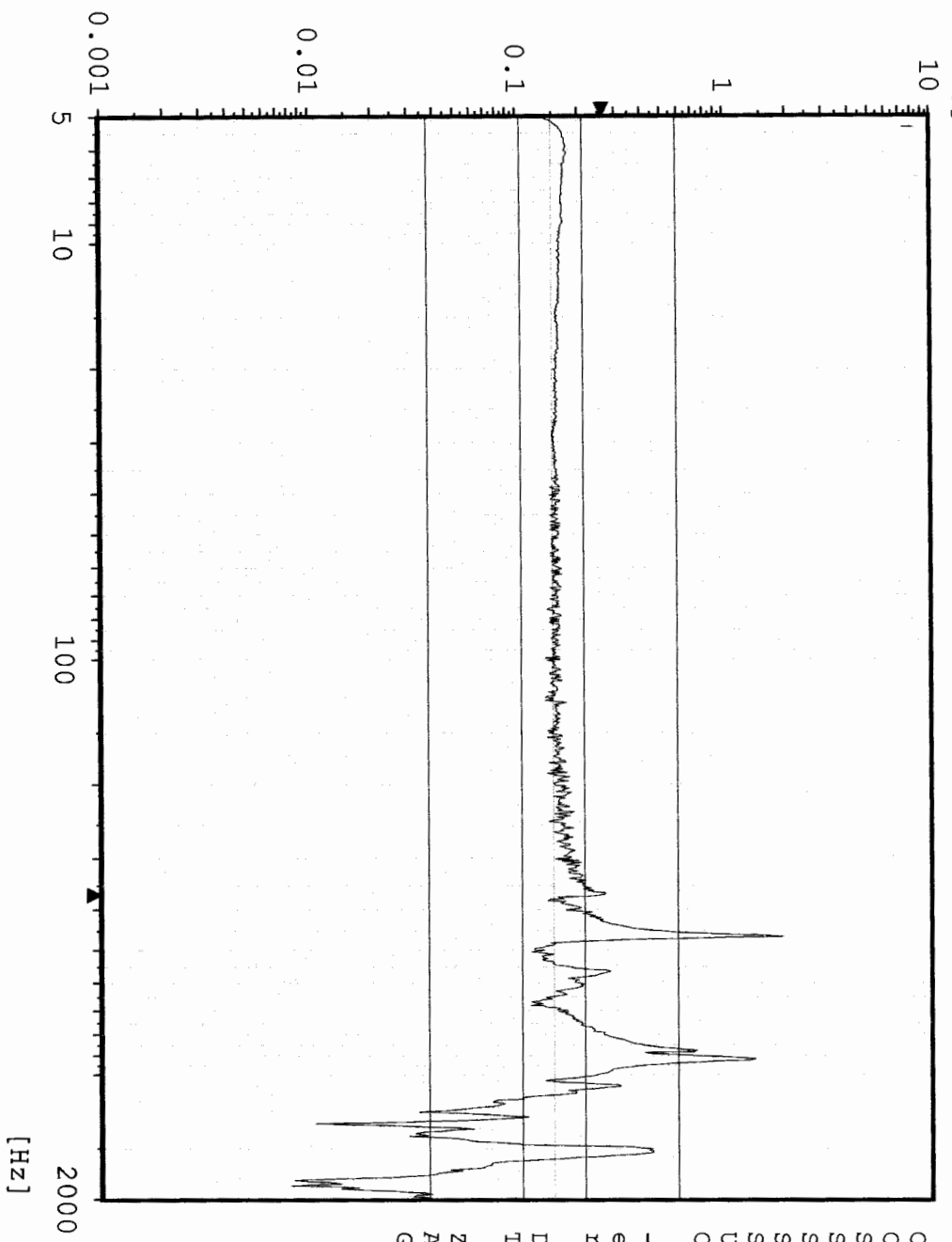
Z - axis Pre Random
 Acceptance Unit
 GLAT 1845

Sine AZ1 TPS Edge Center

Stanford Linear Accelerator

J/N 49995.52097

TEM / TPS



[g]

[Hz]

Chan.no: 6 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: 07-15-05
 Time: 10:54:21

Z - axis Pre Random
 Acceptance Unit
 GIAT 1845

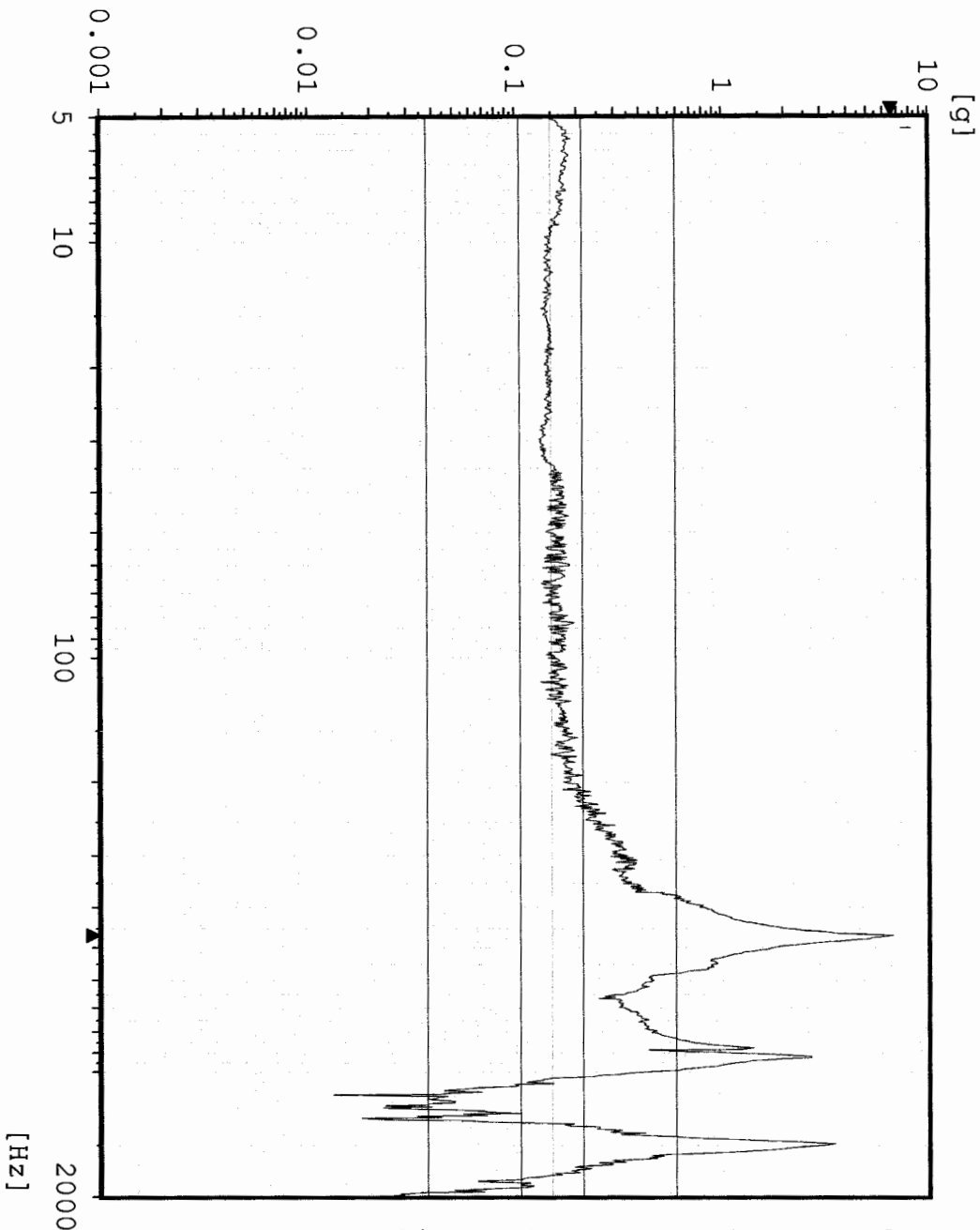
Max: 468 Hz 6.619 g

Sine AZ6 TEM Bottom Center

Stanford Linear Accelerator

J/N 49995.52097

TEM / TPS



```

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

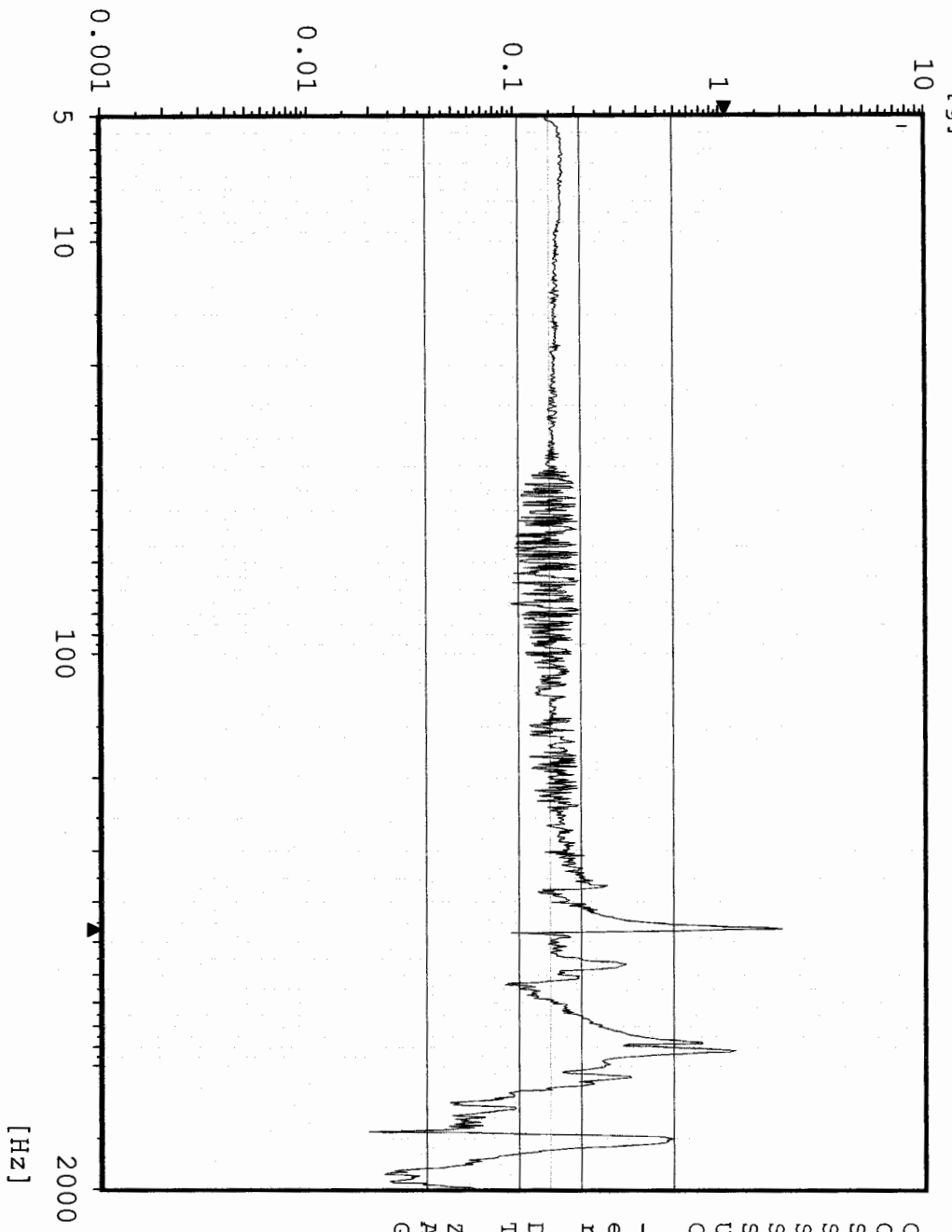
-- Testing time --
elapsed:      000:04:18
remaining:    000:00:00

Date:         07-15-05
Time:         10:54:21

Z - axis     Pre Random
Acceptance   Unit
GIAT 1845
  
```

Sine A22 TPS Corner

Stanford Linear Accelerator
J/N 49995.52097
TEM / TPS



```

Chan.no: 10 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: 07-15-05
Time: 10:54:21

Z - axis Pre Random
Acceptance Unit
GIAT 1845
  
```

Random

CZ1 Z-Axis Control

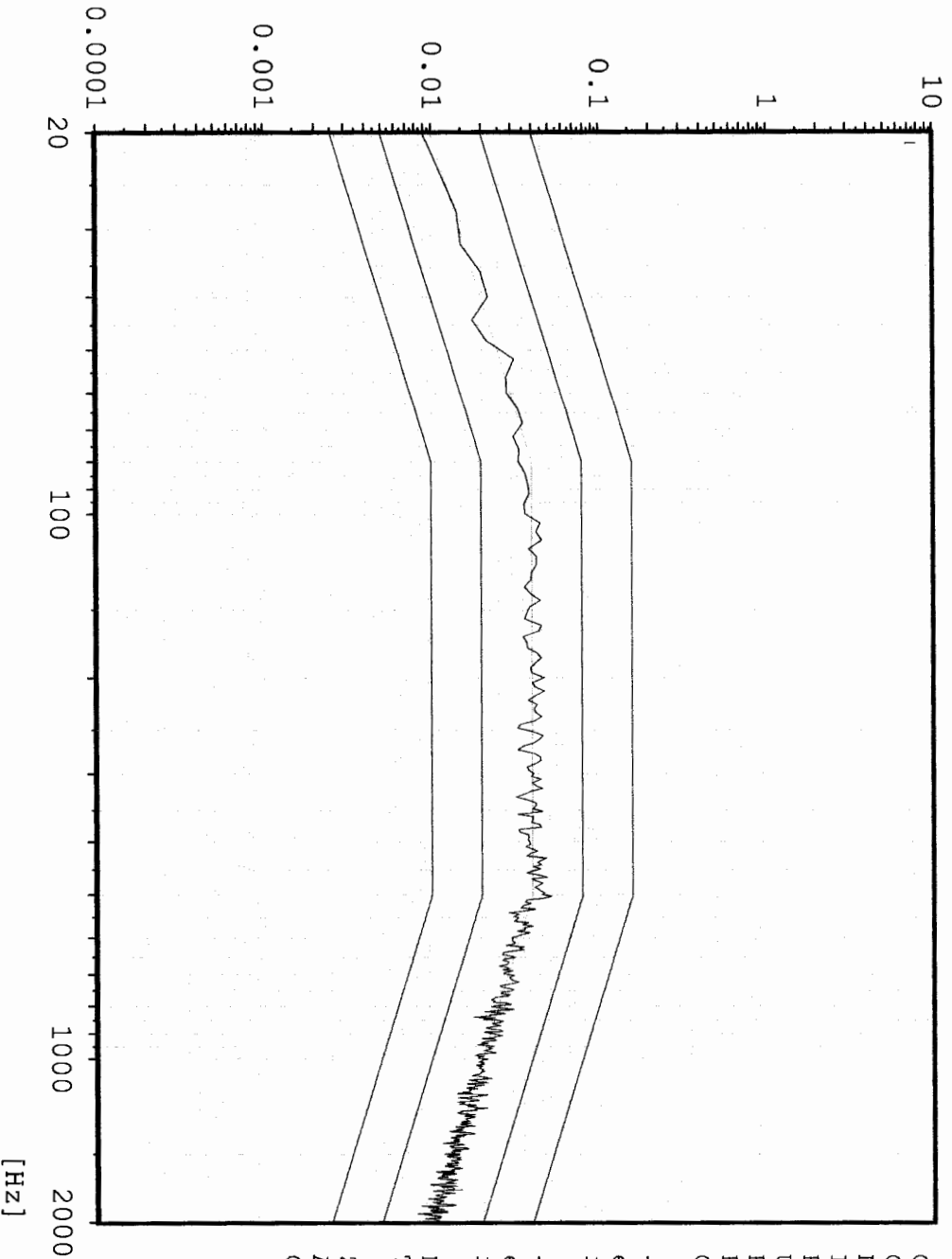
Stanford Linear Accelerator

J/N 49995.52097

TEM & TPS



[g²/Hz]



```

Chan.no:      1
Chan.type:    C
DOF:          126
Level:        0.0 dB
Resolution:   4 Hz
Unit:         g2/Hz
RMS (act.):   6.81 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:         07-15-05
Time:         11:01:57

```

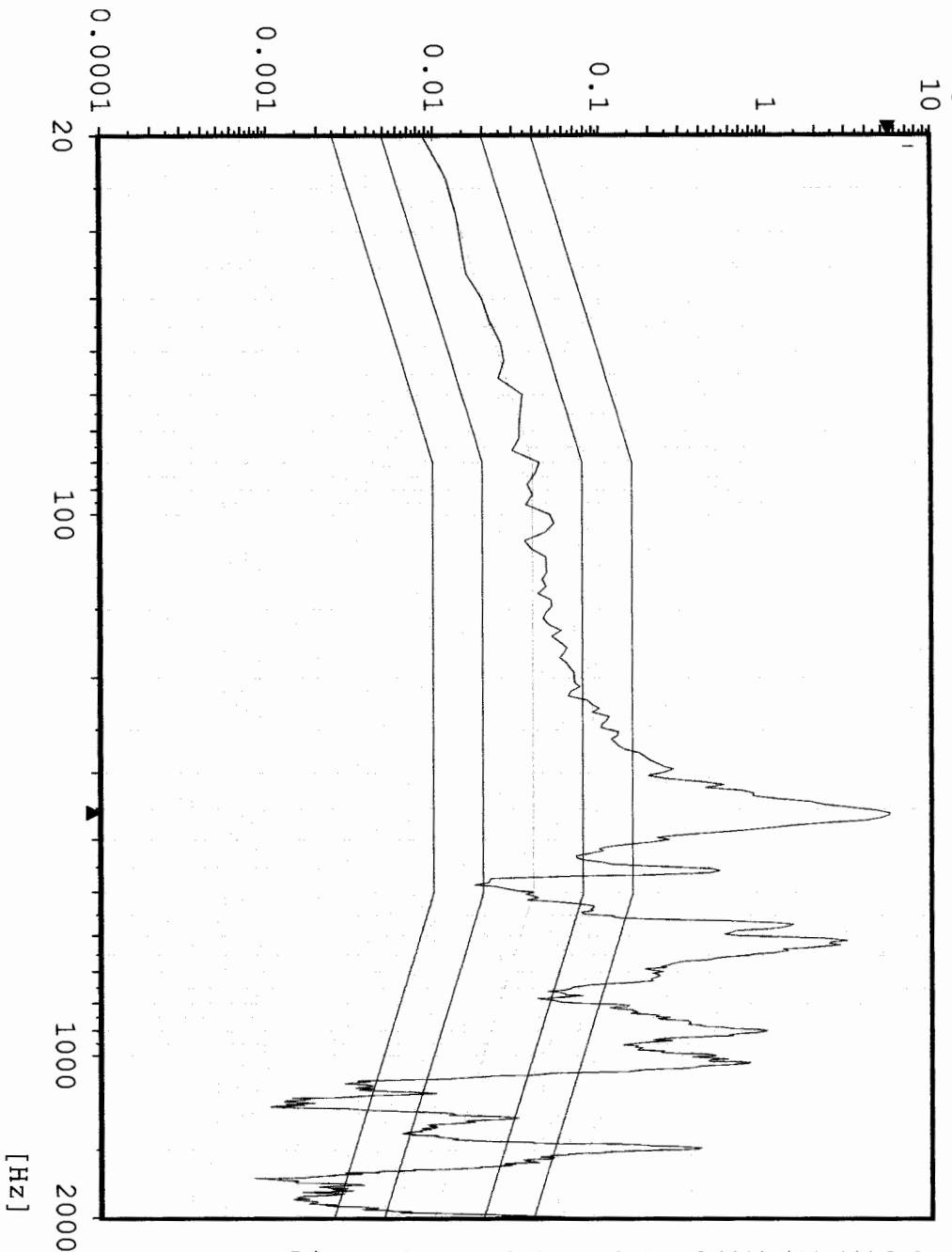
```

Z - Axis
Acceptance Unit
GIAT 1845

```


Random AZ4 TPS Boss 2

Stanford Linear Accelerator
J/N 49995.52097
TEM & TPS



```

Chan.no:      2
Chan.type:    M
DOF:          100
Level:        0.0 dB
Resolution:   4 Hz
Unit:         g2/Hz
RMS (act.):   22.37 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
  
```

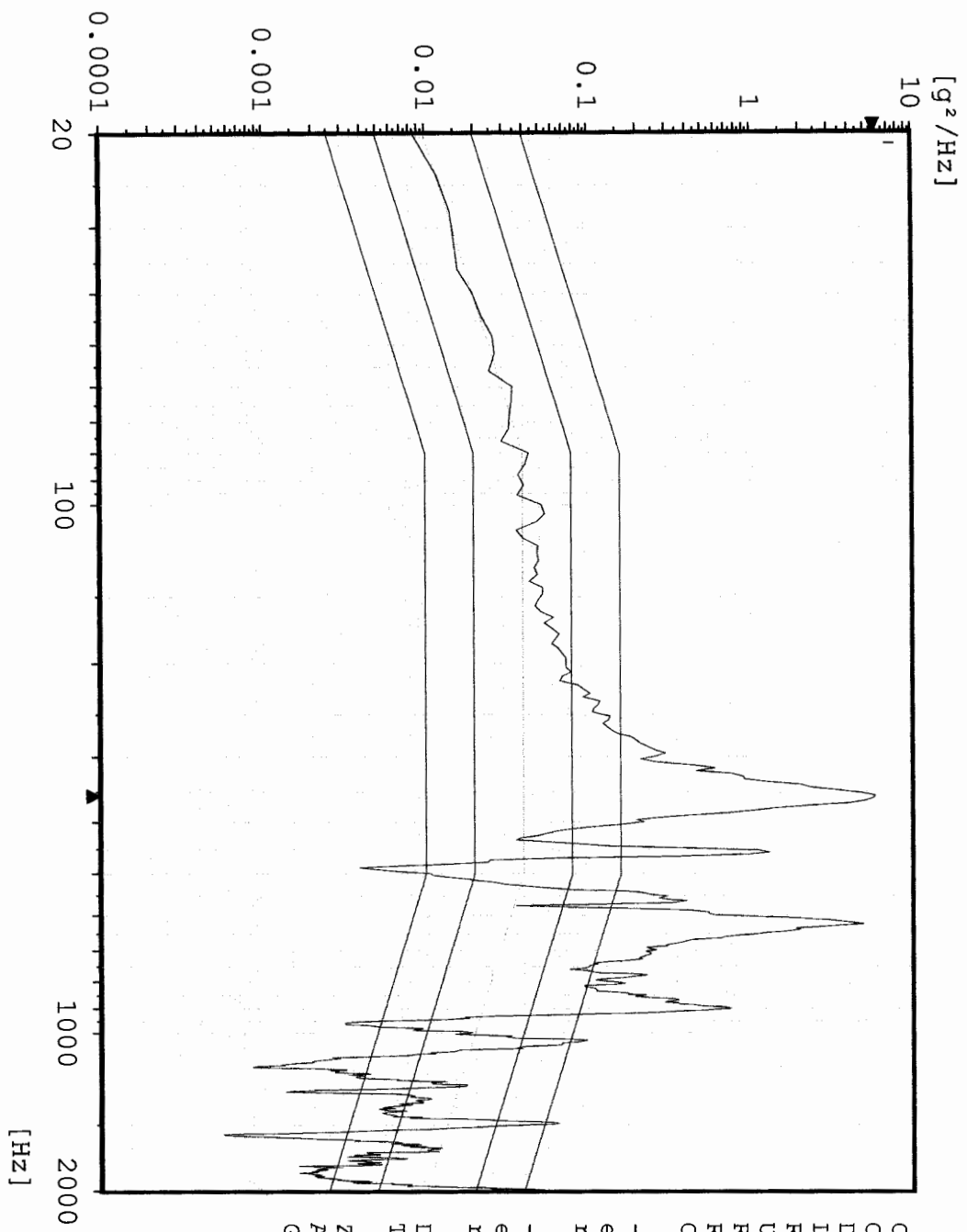
```

Date:         07-15-05
Time:         11:01:57

Z - Axis
Acceptance Unit
GLAT 1845
  
```

Random AZ3 TPS Boss 1

Stanford Linear Accelerator
J/N 49995.52097
TEM & TPS



```

Chan.no:      3
Chan.type:    M
DOF:          100
Level:        0.0 dB
Resolution:   4 Hz
Unit:         g2/Hz
RMS (act.):   21.52 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
  
```

```

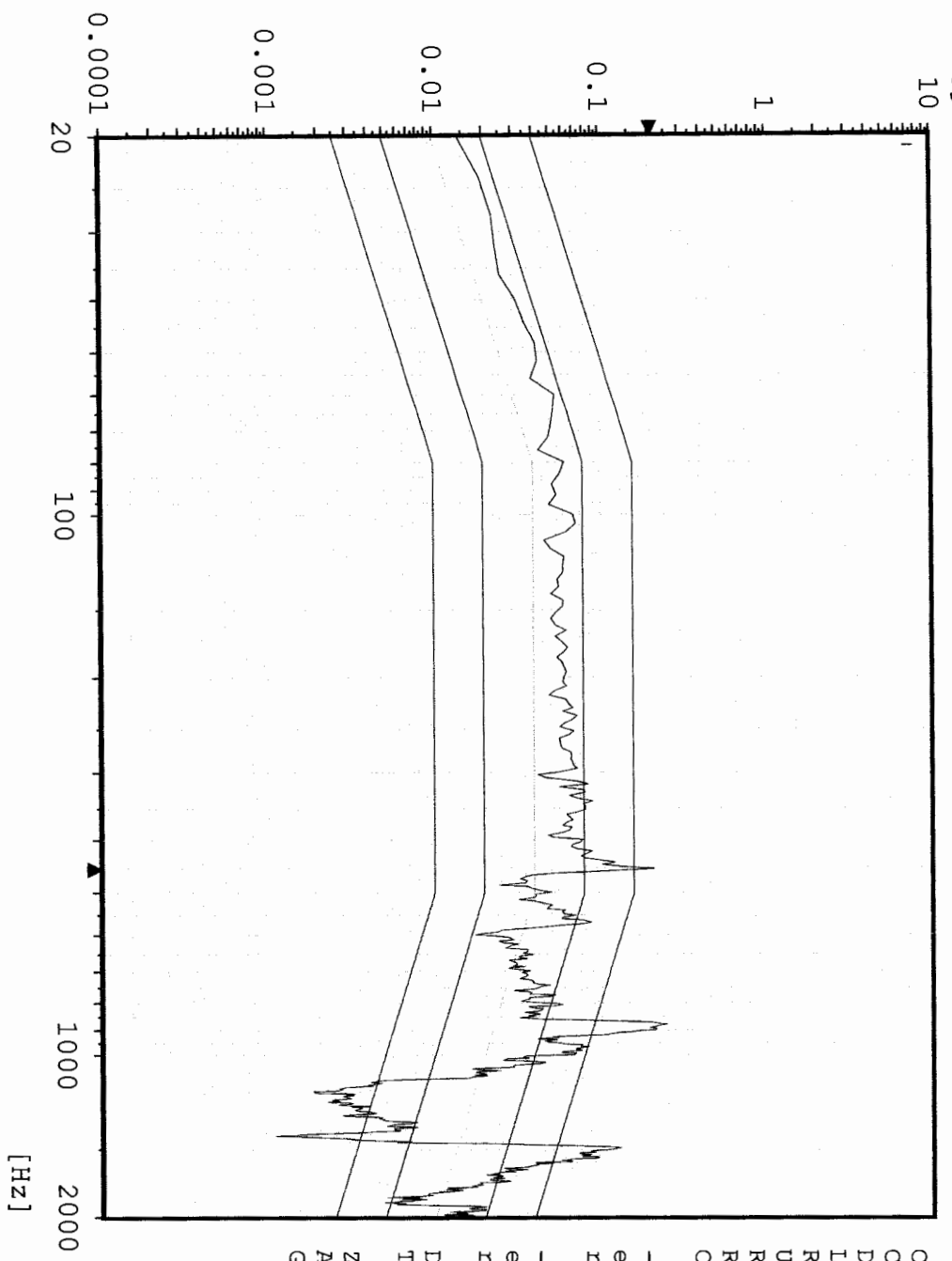
Date:         07-15-05
Time:         11:01:57
  
```

```

Z - Axis
Acceptance Unit
GIAT 1845
  
```

Random AZ5 TEM Bottom Edge

Stanford Linear Accelerator
J/N 49995.52097
TEM & TPS



Chan.no: 5
 Chan.type: M
 DOF: 100
 Level: 0.0 dB
 Resolution: 4 Hz
 Unit: g²/Hz
 RMS (act.): 9.033 g
 RMS (req.): 6.787 g
 Contr.strat.: Closed loop

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

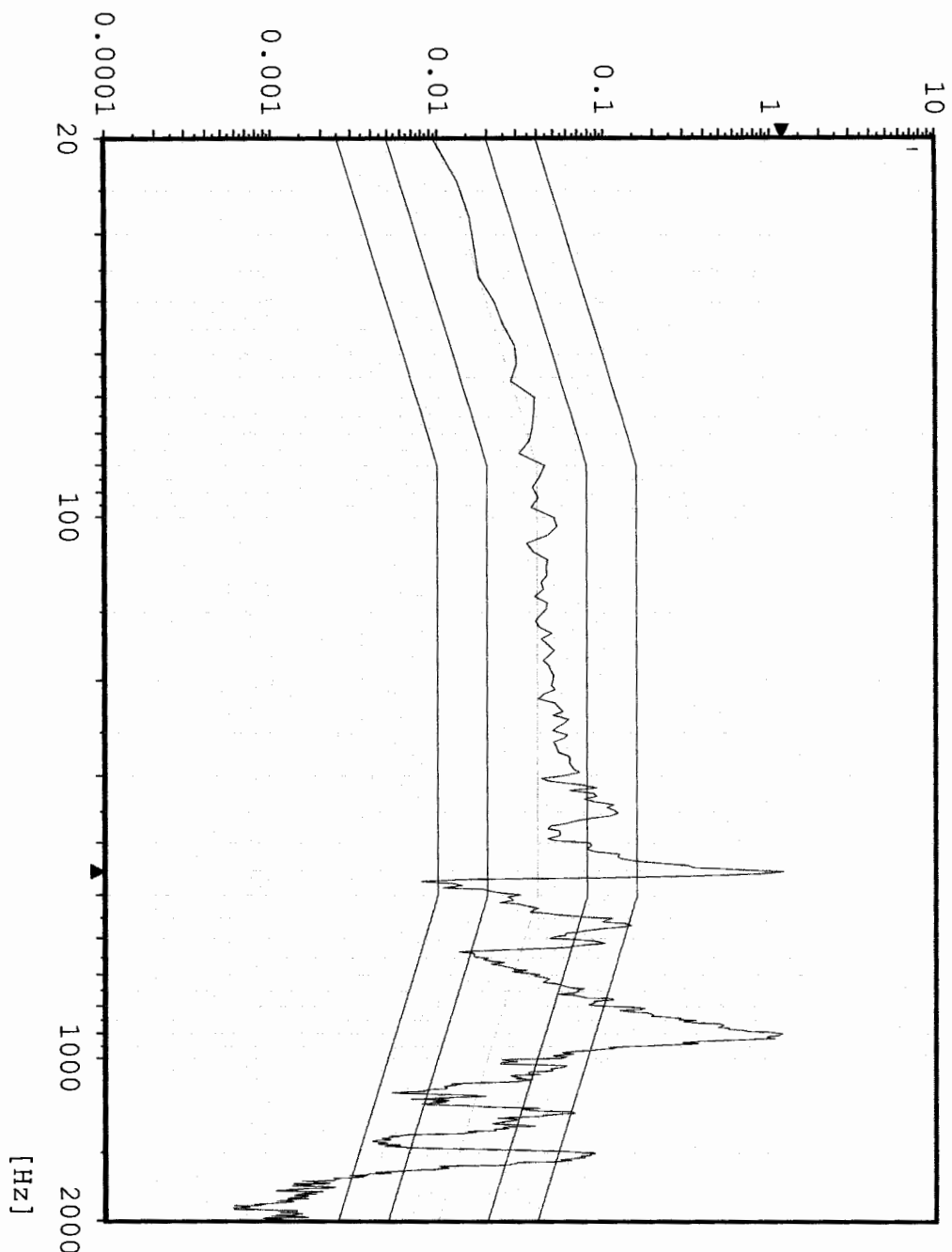
-- Time total --
 elapsed: 000:02:55
 remaining: 000:00:-1

Date: 07-15-05
 Time: 11:01:57

Z - Axis
 Acceptance Unit
 GIAT 1845

Random AZ1 TPS Edge Center

Stanford Linear Accelerator
J/N 49995.52097
TEM & TPS



Chan.no: 6
 Chan.type: M
 DOF: 100
 Level: 0.0 dB
 Resolution: 4 Hz
 Unit: g²/Hz
 RMS (act.): 12.33 g
 RMS (req.): 6.787 g
 Contr.strat.: Closed loop

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

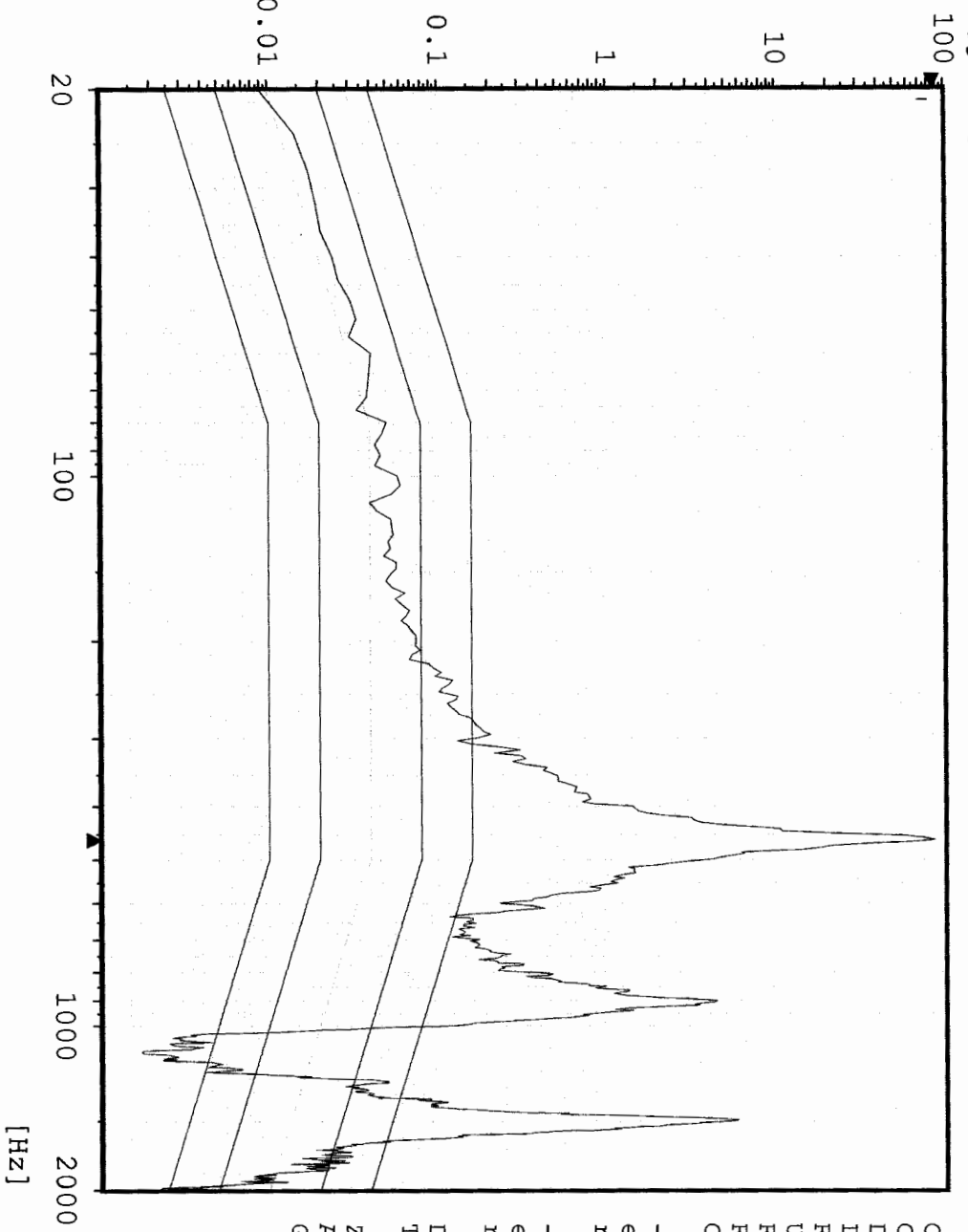
-- Time total --
 elapsed: 000:02:55
 remaining: 000:00:-1

Date: 07-15-05
 Time: 11:01:57

Z - Axis
 Acceptance Unit
 GLAT 1845

Random AZ6 TEM Bottom Center

Stanford Linear Accelerator
 J/N 49995.52097
 TEM & TPS



Chan.no: 8
 Chan.type: M
 DOF: 100
 Level: 0.0 dB
 Resolution: 4 Hz
 Unit: g²/Hz
 RMS (act.): 51.82 g
 RMS (req.): 6.787 g
 Contr.strat.: Closed loop

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

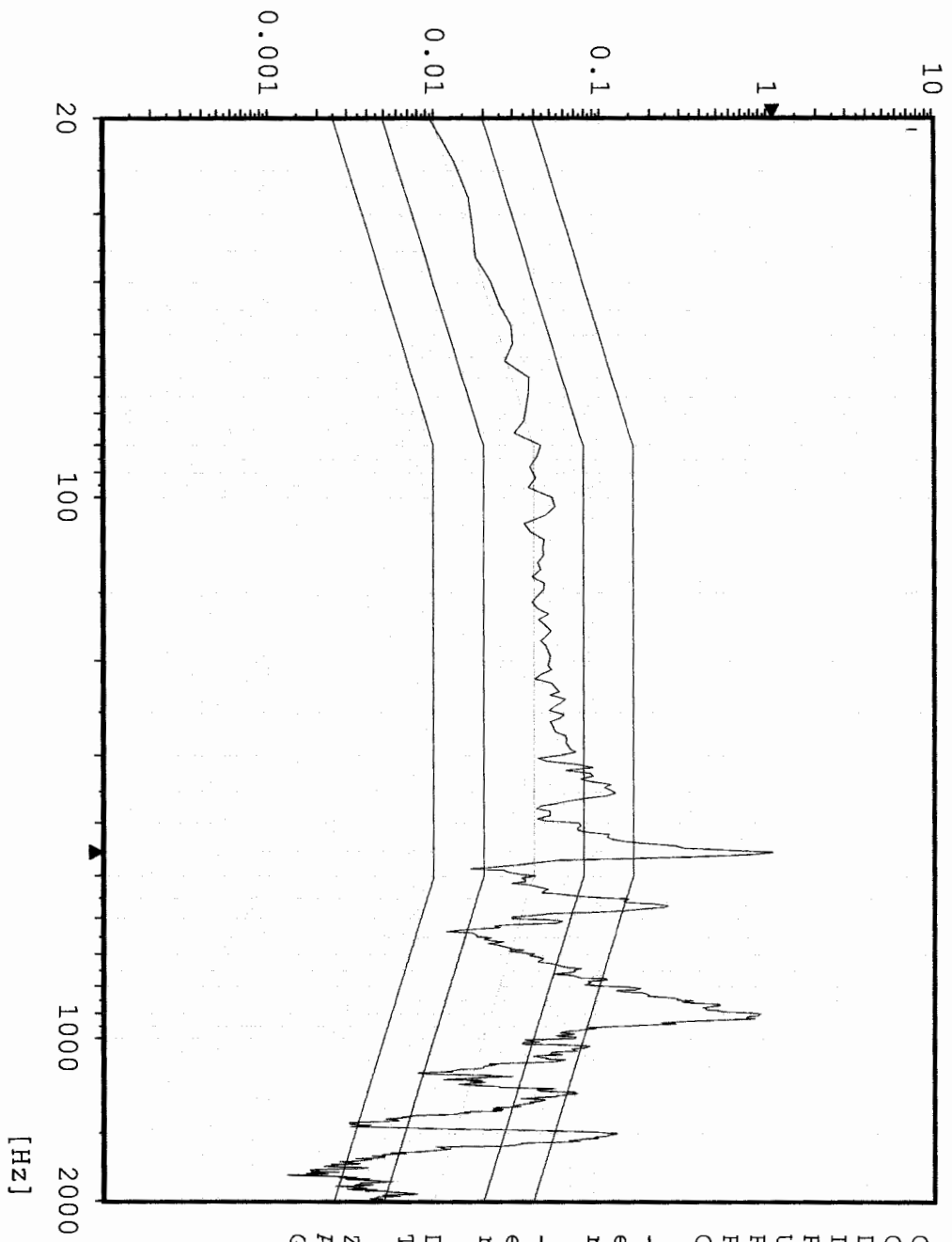
-- Time total --
 elapsed: 000:02:55
 remaining: 000:00:-1

Date: 07-15-05
 Time: 11:01:57

Z - Axis
 Acceptance Unit
 GIAT 1845

Random AZZ TPS Corner

Stanford Linear Accelerator
 J/N 49995.52097
 TEM & TPS



Chan.no: 10
 Chan.type: M
 DOF: 100
 Level: 0.0 dB
 Resolution: 4 Hz
 Unit: g²/Hz
 RMS (act.): 12.18 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: 07-15-05
 Time: 11:01:57

Z - Axis
 Acceptance Unit
 GLAT 1845

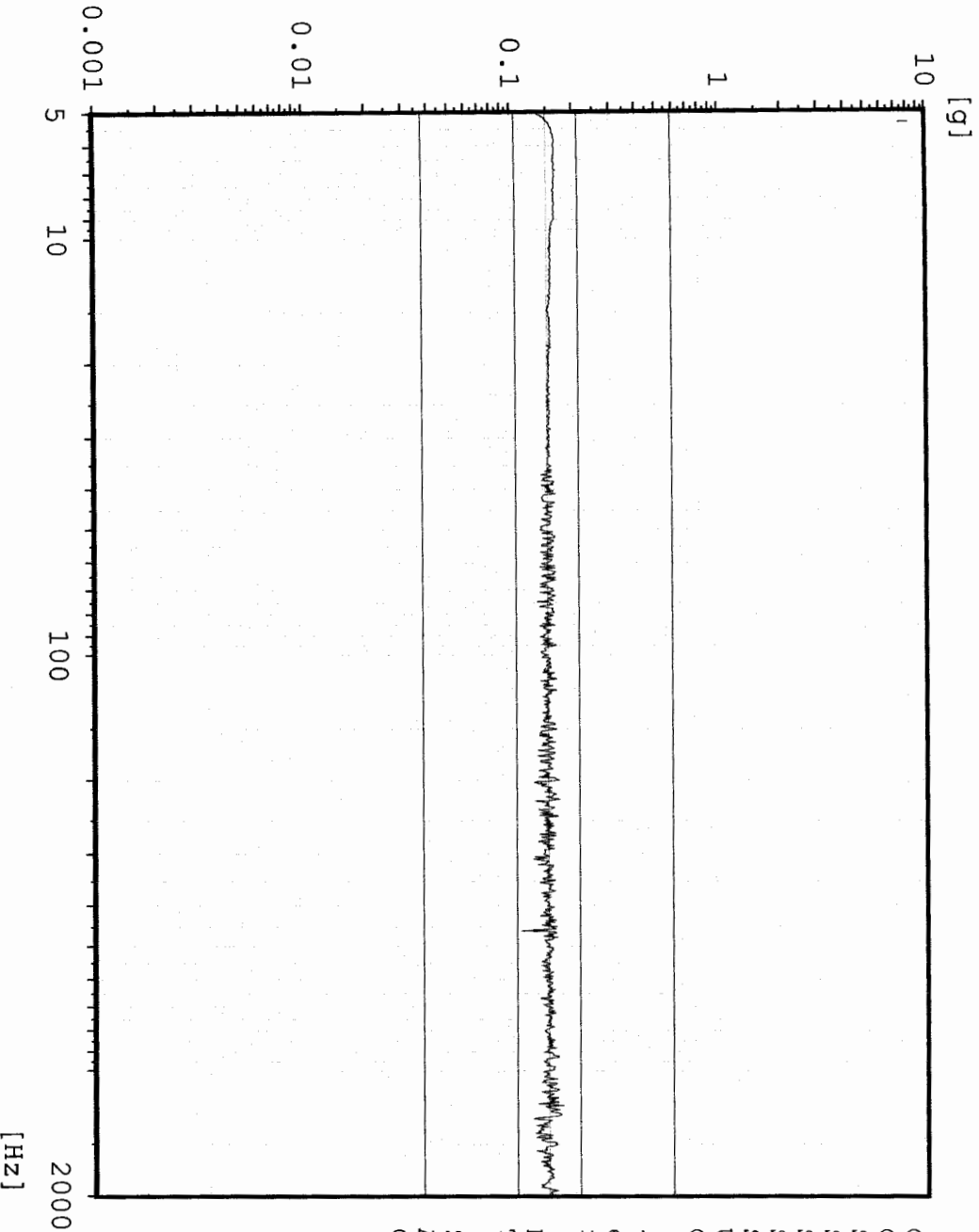
Sine

CZ1 Z-Axis Control

Stanford Linear Accelerator

J/N 49995.52097

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: 07-15-05
Time: 11:17:02

```

```

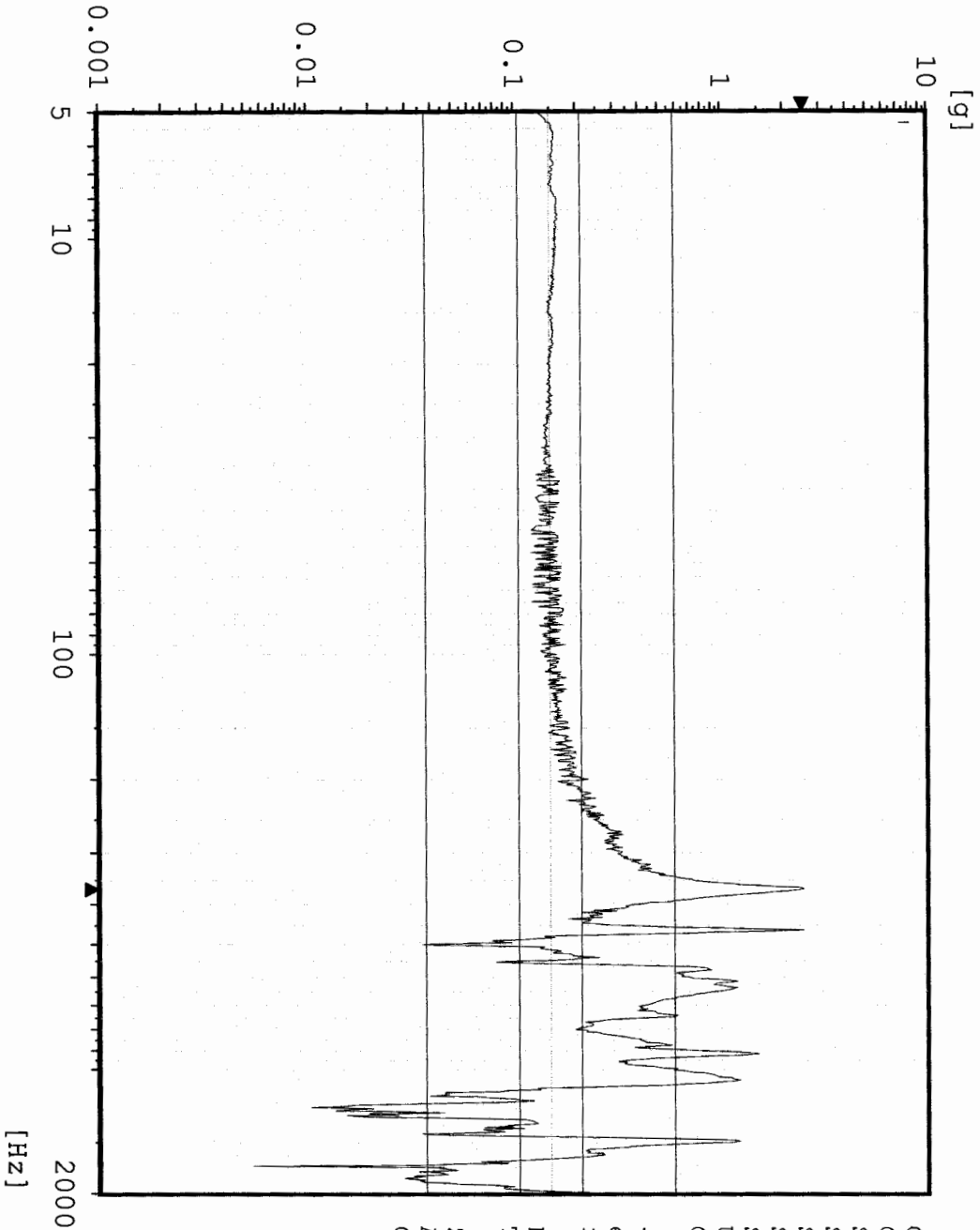
Z - axis Post Random
Acceptance Unit
GLAT 1845

```

Sine

AZ4 TPS Boss 2

Stanford Linear Accelerator
J/N 49995.52097
TEM / TPS



```

Chan.no: 2 M Filtered
Chan.type: logarithmic
Sweep type: 1
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: 07-15-05
Time: 11:17:02

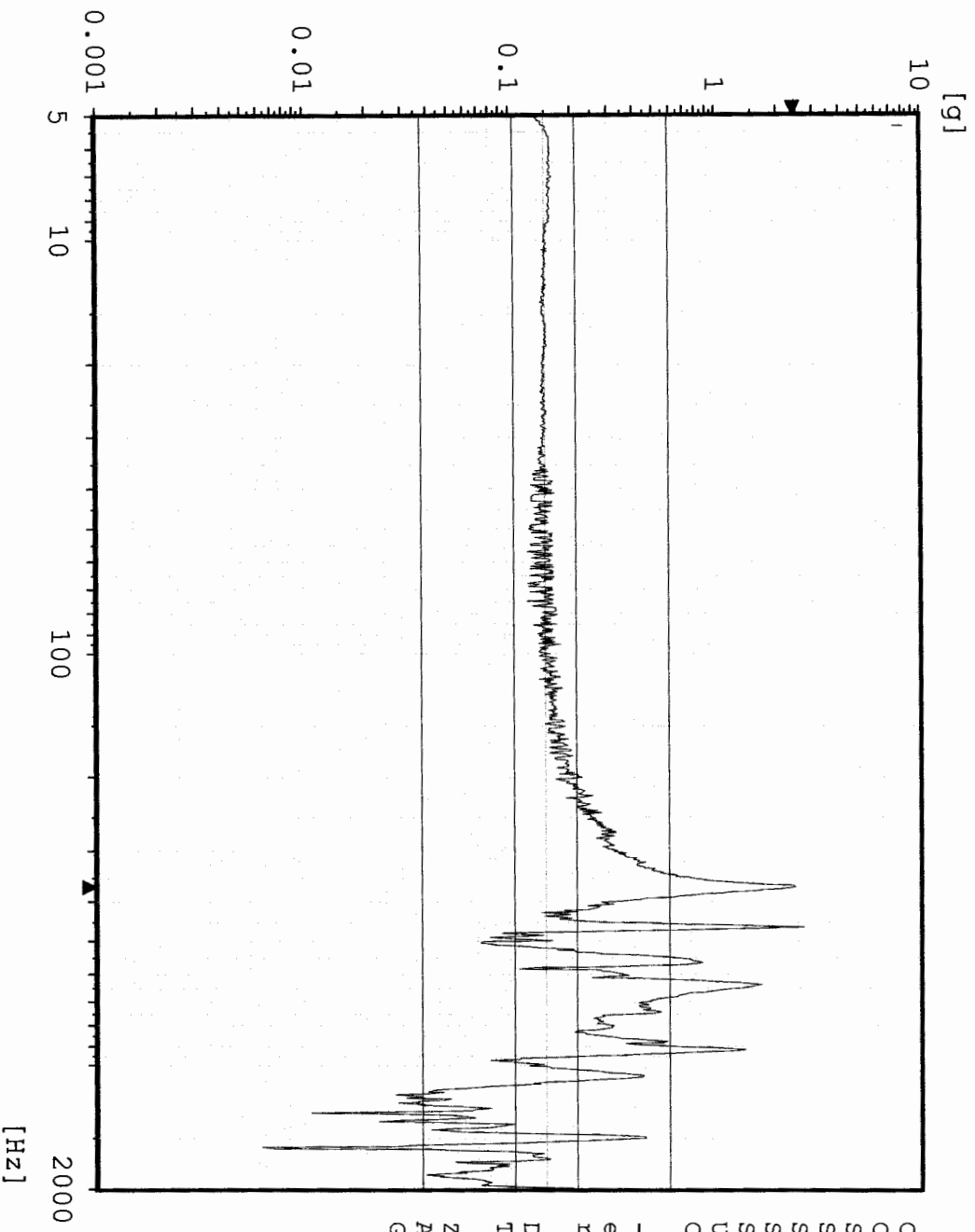
Z - axis Post Random
Acceptance Unit
GLAT 1845

```


Sine

AZ3 TPS Boss 1

Stanford Linear Accelerator
J/N 49995.52097
TEM / TPS



```

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

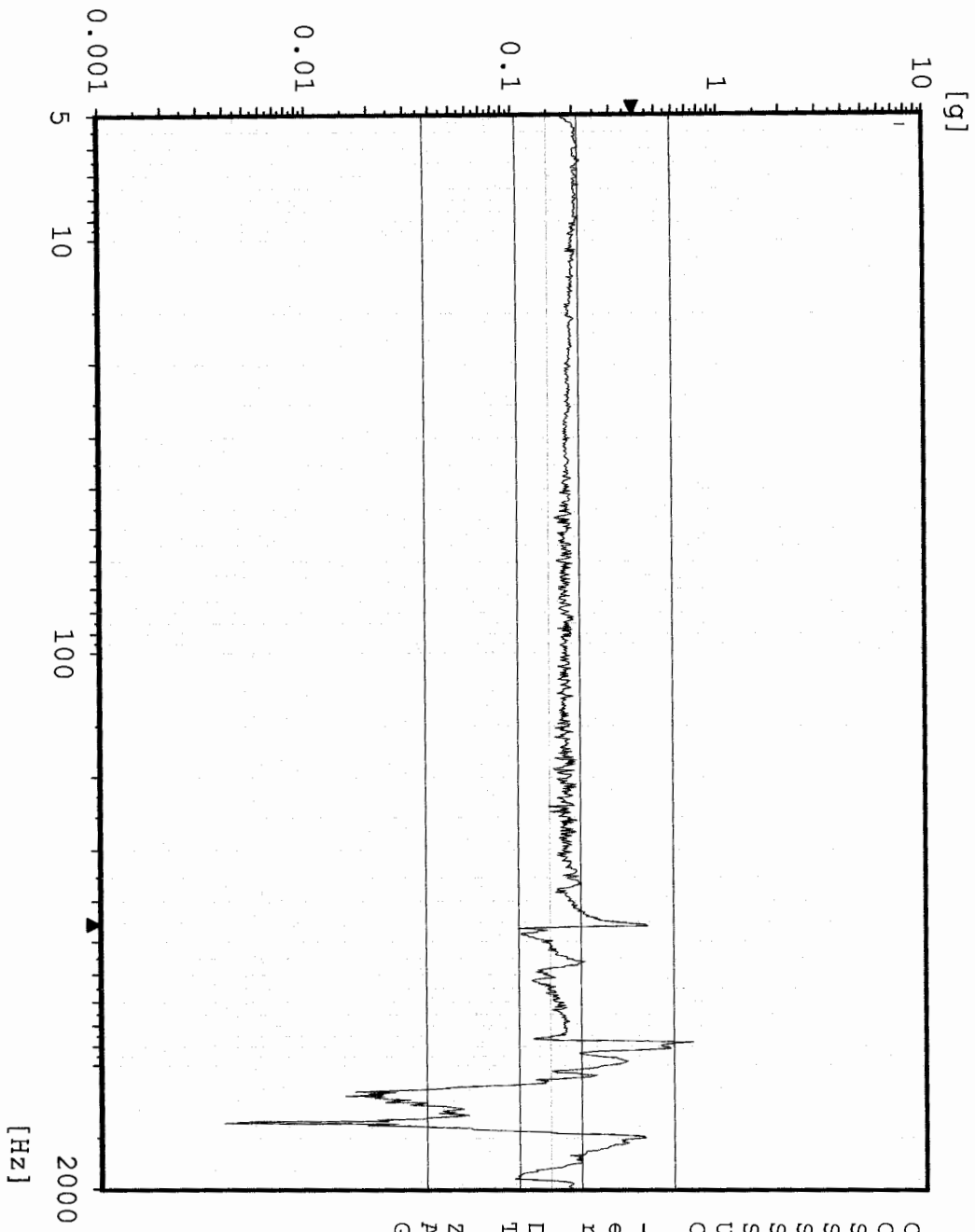
-- Testing time --
elapsed: 000:04:18
remaining: 000:00:00

Date: 07-15-05
Time: 11:17:02

Z - axis Post Random
Acceptance Unit
GLAT 1845
  
```

Sine AZ5 TEM Bottom Edge

Stanford Linear Accelerator
J/N 49995.52097
TEM / TPS



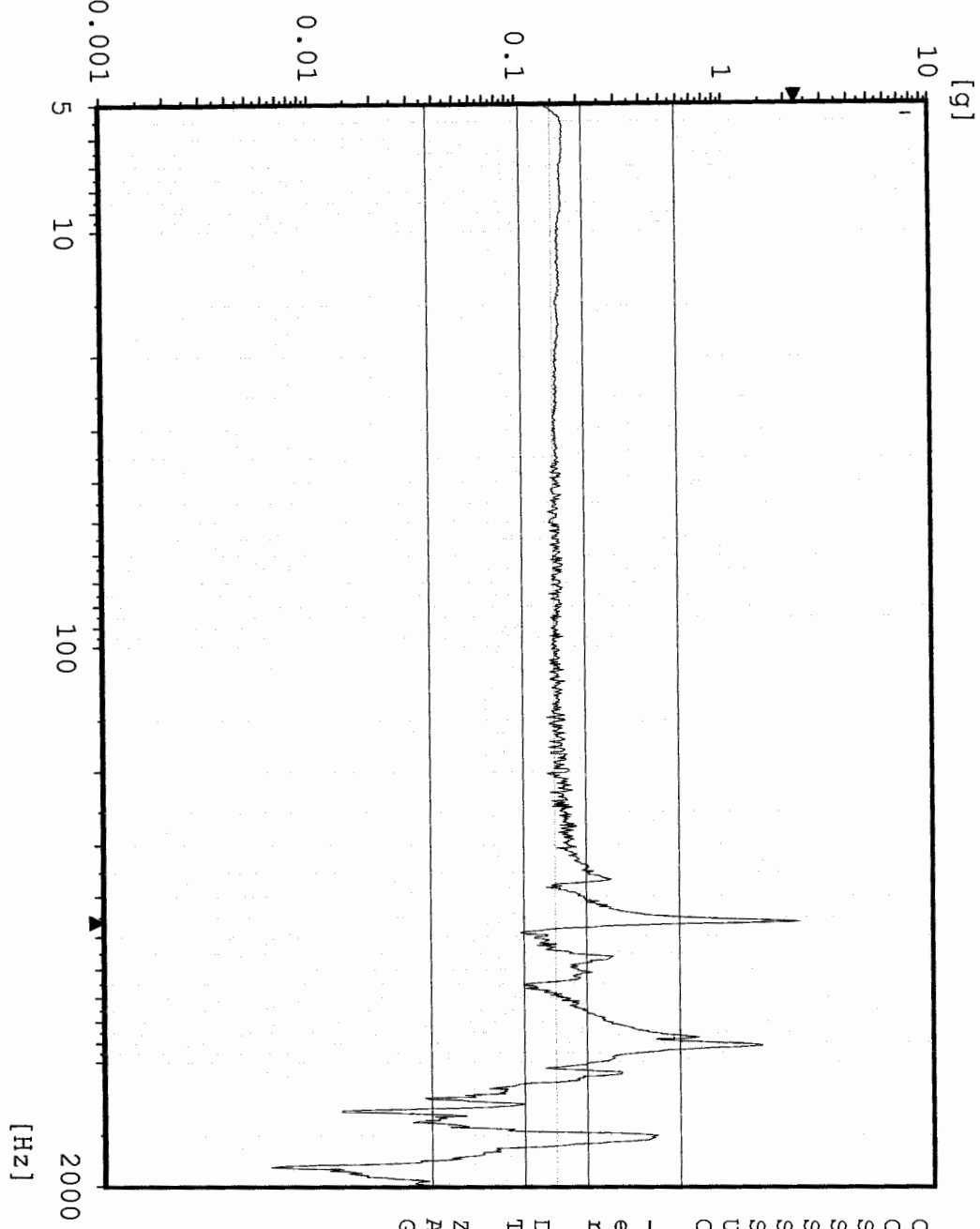
Chan.no: 5 M Filtered
 Sweep type: logarithmic
 Sweeps done: 1
 Sweeps req.: 1
 Sweep direct.: up
 Sweep rate: 2.00 Oct/min
 Unit: g
 Contr.strat.: Closed loop

-- Testing time --
 elapsed: 000:04:18
 remaining: 000:00:00
 Date: 07-15-05
 Time: 11:17:02

Z - axis Post Random
 Acceptance Unit
 GLAT 1845

Sine AZ1 TPS Edge Center

Stanford Linear Accelerator
J/N 49995.52097
TEM / TPS



Chan.no: 6 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

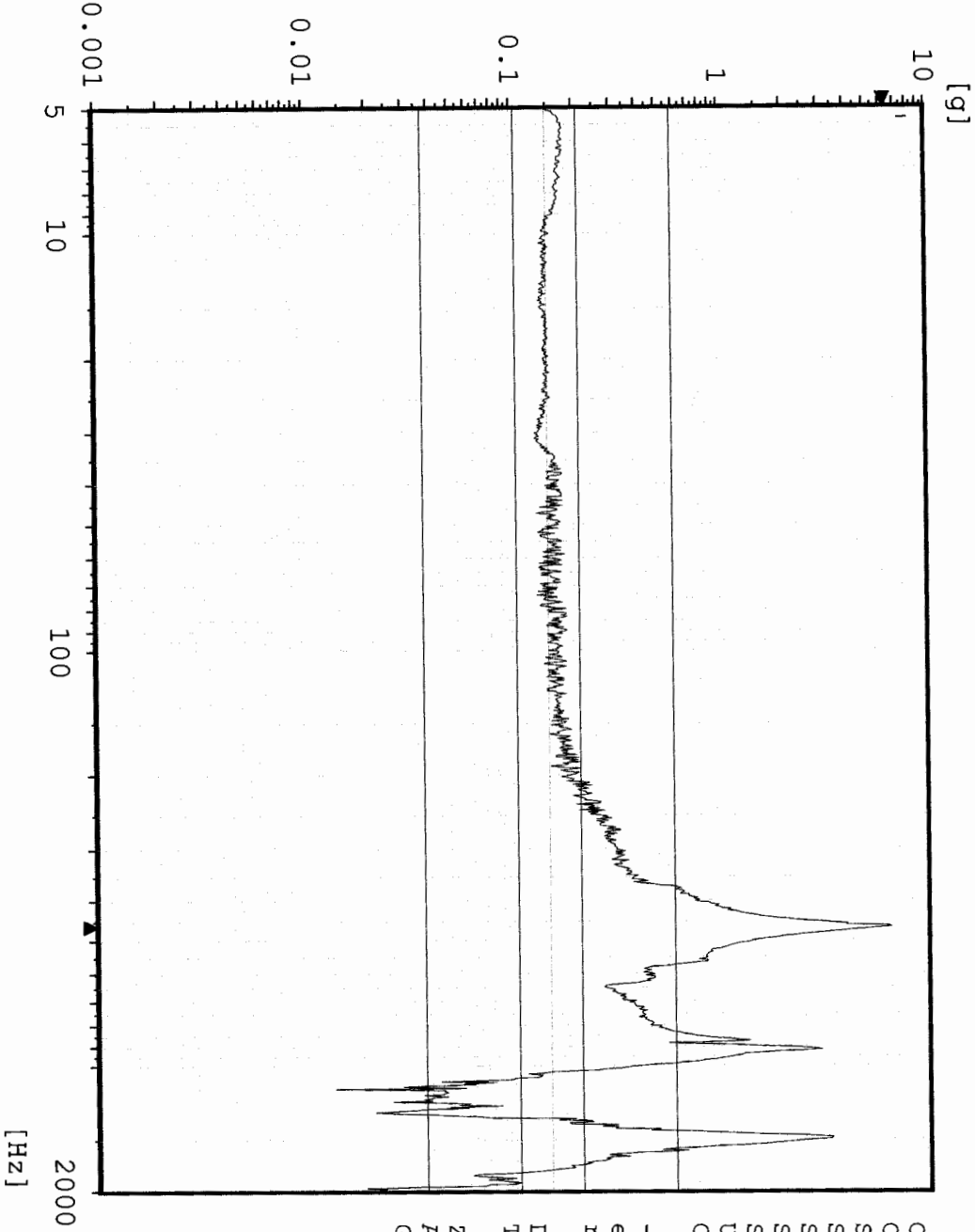
-- Testing time --
 elapsed: 000:04:18
 remaining: 000:00:00
 Date: 07-15-05
 Time: 11:17:02
 Z - axis Post Random
 Acceptance Unit
 GLAT 1845

Sine AZ6 TEM Bottom Center

Stanford Linear Accelerator

J/N 49995.52097

TEM / TPS



[g]

[Hz]

```

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:         07-15-05
Time:         11:17:02

Z - axis     Post Random
Acceptance   Unit
GLAT 1845

```

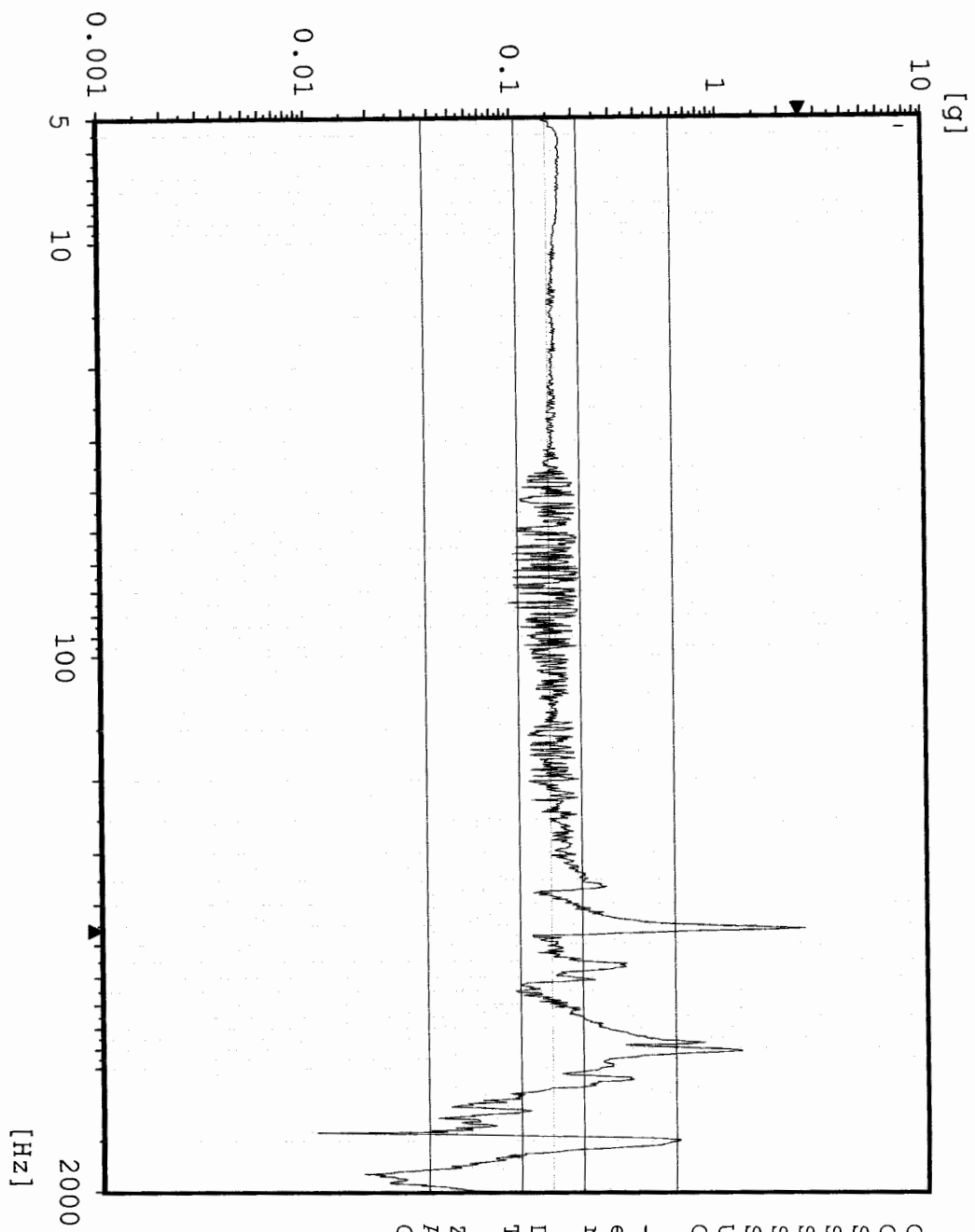
Sine

Stanford Linear Accelerator

J/N 49995.52097

TEM / TPS

AZ2 TPS Corner



```

Chan.no: 10 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: 07-15-05
Time: 11:17:02

Z - axis Post Random
Acceptance Unit
GIAT 1845

```