

Appendix A Accelerometer Sensitivities and Charge Amp Settings



GLAST LAT Project TEM/TPS 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 | | | | | 3 | 3000 | 1000 |
| AZ1 | 6 | 4HK62 | 2226C | 3.038 | 30 | 3000 | 100 |
| AZ2 | 10 | 16139 | 2226C | 3.027 | 30 | 3000 | 100 |
| AZ3 | 3 | 16017 | 2226C | 3.030 | 30 | 3000 | 100 |
| AZ4 | 2 | 1HK67 | 2226C | 3.006 | 30 | 3000 | 100 |
| AZ5 | 5 | 30798 | 2222C | 1.747 | 30 | 3000 | 100 |
| AZ6 | 8 | 30743 | 2222C | 1.595 | 100 | 3000 | 30 |
| CX1 | | 13048 | 2271A1120 | 12.45 | 3 | 3000 | 1000 |
| AX1 | 5 | 30798 | 2222C | 1.747 | 50 | 3000 | 100 |
| AX2 | 10 | 30798 | 2222C | 1.747 | 30 | 3000 | 100 |
| AX3 | 2 | 4HK69 | 2226C | 3.006 | 30 | 3000 | 100 |
| AX4 | 3 | 16017 | 2226C | 3.030 | 30 | 3000 | 100 |
| CY1 | | 13048 | 2271A1120 | 12.45 | 3 | 3000 | 1000 |
| AY1 | 5 | 30798 | 2222C | 1.747 | 30 | 3000 | 1000 |
| AY2 | 10 | 30798 | 2222C | 1.747 | 50 | 3000 | 100 |
| AY3 | 2 | 4HK69 | 2226C | 3.006 | 30 | 3000 | 100 |
| AY4 | 3 | 16017 | 2226C | 3.030 | 30 | 3000 | 100 |

16139 2226C 3.027

Appendix B - Test Log *shot 1*



GLAST LAT Project TEM/TPS Vibration Testing

Test Log

| Date | Time | Unit # | Axis | Sine or Random | Level [g]/[grms] | Frequency [Hz] | File Name | Remarks |
|---------|-------|--------|------|----------------|------------------|----------------|-----------------------|----------------------|
| 5/11/05 | 11:00 | 1816 | X-Y | SINE | 0.15 | 5-2000 | SLAC 0.15g 5-2000 Acc | X_015.FSN |
| | 11:15 | 1816 | X-Y | Random | Acc 6.8 | 5-2000 | SLAC 6.8 Grms TEM/TPS | Acceptance X_016.FSN |
| | 12:00 | 1816 | X | SINE | 0.15 | 5-2000 | SLAC 0.15g 5-2000 Acc | X_016.FSN |
| | 12:12 | 1816 | X | Random | Acc 6.8 | 5-2000 | SLAC 6.8 Grms TEM/TPS | X_016.FSN |
| | 12:22 | 1816 | X | SINE | 0.15 | 5-2000 | SLAC 0.15g 5-2000 Acc | X_011.FSN |
| | 12:30 | 1816 | Y | SINE | 0.15 | 5-2000 | SLAC 0.15g 5-2000 Acc | Y_007.FSN |
| | 12:40 | 1816 | Y | Random | Acc 6.8 | 5-2000 | SLAC 6.8 Grms TEM/TPS | Acceptance Y_015.FSN |
| | 1:30 | 1816 | Y | SINE | 0.15 | 5-2000 | SLAC 0.15g 5-2000 Acc | Y_013.FSN |
| | 2:20 | 1813 | X | SINE | 0.15 | 5-2000 | SLAC 0.15g 5-2000 Acc | X_012.FSN |
| | 2:30 | 1813 | X | Random | Acc 6.8 | 5-2000 | SLAC 6.8 Grms TEM/TPS | Acceptance X_007.FSN |
| | 2:40 | 1813 | X | SINE | 0.15 | 5-2000 | SLAC 0.15g 5-2000 Acc | X_013.FSN |
| | 3:15 | 1813 | X | SINE | 0.15 | 5-2000 | " | X_014.FSN |
| | 3:30 | 1813 | X | SINE | 0.15 | 5-2000 | " | X_015.FSN |
| | 3:40 | 1813 | X | SINE | 0.15 | 5-2000 | " | X_016.FSN |
| | 4:00 | 1813 | Y | SINE | 0.15 | 5-2000 | SLAC 0.15g 5-2000 Acc | Y_015.FSN |
| | 4:20 | 1813 | Y | Random | Acc 6.8 | 5-2000 | SLAC 6.8 Grms TEM/TPS | Acceptance Y_016.FSN |
| | 4:30 | 1813 | Y | SINE | 0.15 | 5-2000 | SLAC 0.15g 5-2000 Acc | Y_016.FSN |
| | 4:40 | 1834 | X | SINE | 0.15 | 5-2000 | SLAC 0.15g 5-2000 Acc | X_017.FSN |
| | 4:45 | 1834 | X | Random | Acc 6.8 | 5-2000 | SLAC 6.8 Grms TEM/TPS | Acc X_013.FSN |
| | 4:50 | 1834 | X | SINE | 0.15 | 5-2000 | SLAC 0.15g 5-2000 Acc | X_018.FSN |
| | 5:10 | 1834 | Y | SINE | 0.15 | 5-2000 | SLAC 0.15g 5-2000 Acc | Y_017.FSN |
| | 5:20 | 1834 | Y | Random | Acc 6.8 | 5-2000 | SLAC 6.8 Grms TEM/TPS | Acc Y_017.FSN |
| | 5:30 | 1833 | X | SINE | 0.15 | 5-2000 | SLAC 0.15g 5-2000 Acc | X_018.FSN |
| | 5:45 | 1833 | X | Random | Acc 6.8 | 5-2000 | SLAC 6.8 Grms TEM/TPS | Acc X_014.FSN |
| | 6:05 | 1833 | X | SINE | 0.15 | 5-2000 | SLAC 0.15g 5-2000 Acc | X_020.FSN |
| | 6:20 | 1833 | Y | SINE | 0.15 | 5-2000 | SLAC 0.15g 5-2000 Acc | Y_013.FSN |
| | 6:30 | 1833 | Y | Random | Acc 6.8 | 5-2000 | SLAC 6.8 Grms TEM/TPS | Acc Y_013.FSN |
| | 6:35 | 1833 | Y | SINE | 0.15 | 5-2000 | SLAC 0.15g 5-2000 Acc | Y_014.FSN |

Appendix D – Test Data Package Checklist



GLAST LAT Project TEM/TPS 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 <i>(Wyle provider with final pkg.)</i> |
| 5 | ✓ | Procedure data sheets (Appendices A, B, and C) |
| 6 | | Visual Inspection Report |
| 7 | | Test Control System Software Setup Sheets |

CX1 X-Axis Control

Sine

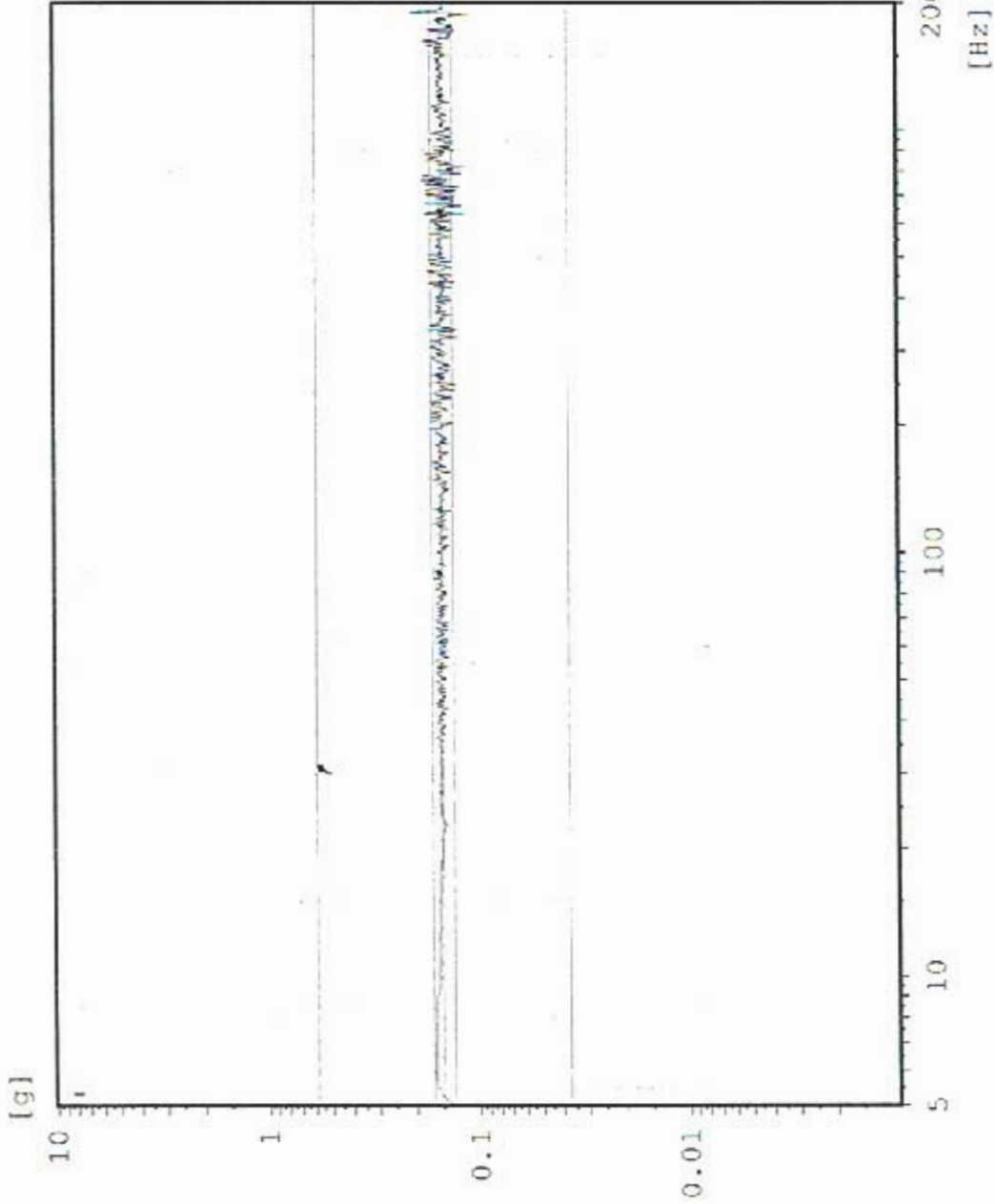
Stanford Linear Accelerator

J/N 49995.51972

TEX / TPS

wyle
Laboratories

PRELIMINARY DATA



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: 05-11-05
Time: 11:02:06

X - axis
Acceptance Unit
Fixture only

CH# 2

Sine
Stanford Linear Accelerator
J/N 49995.51972
TEM / TPS



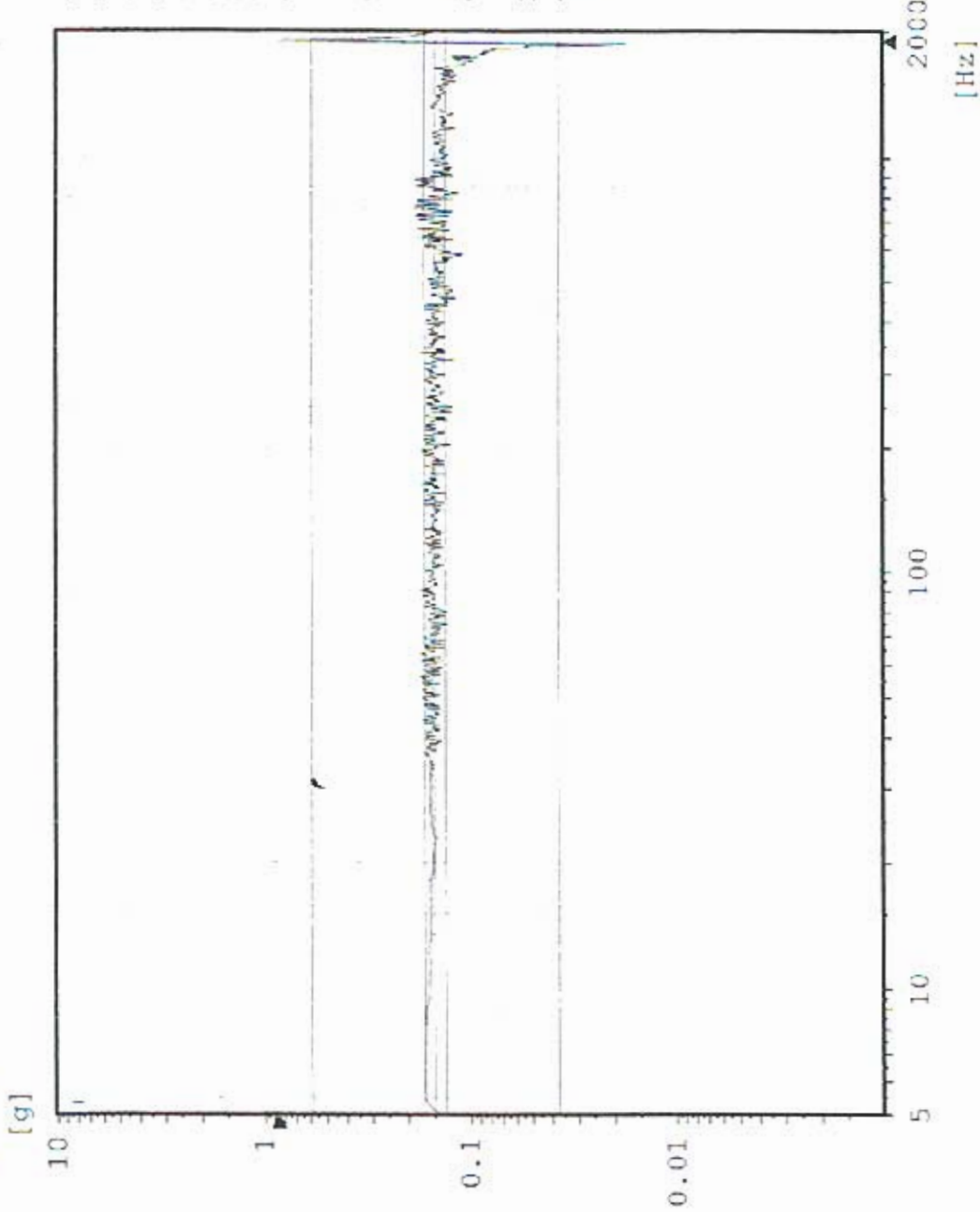
PRELIMINARY DATA

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: 05-11-05
Time: 11:02:06

X - axis
Acceptance Unit
Fixture only



CH# 3

Sine
Stanford Linear Accelerator
J/N 49995.51972
TEM / TPS



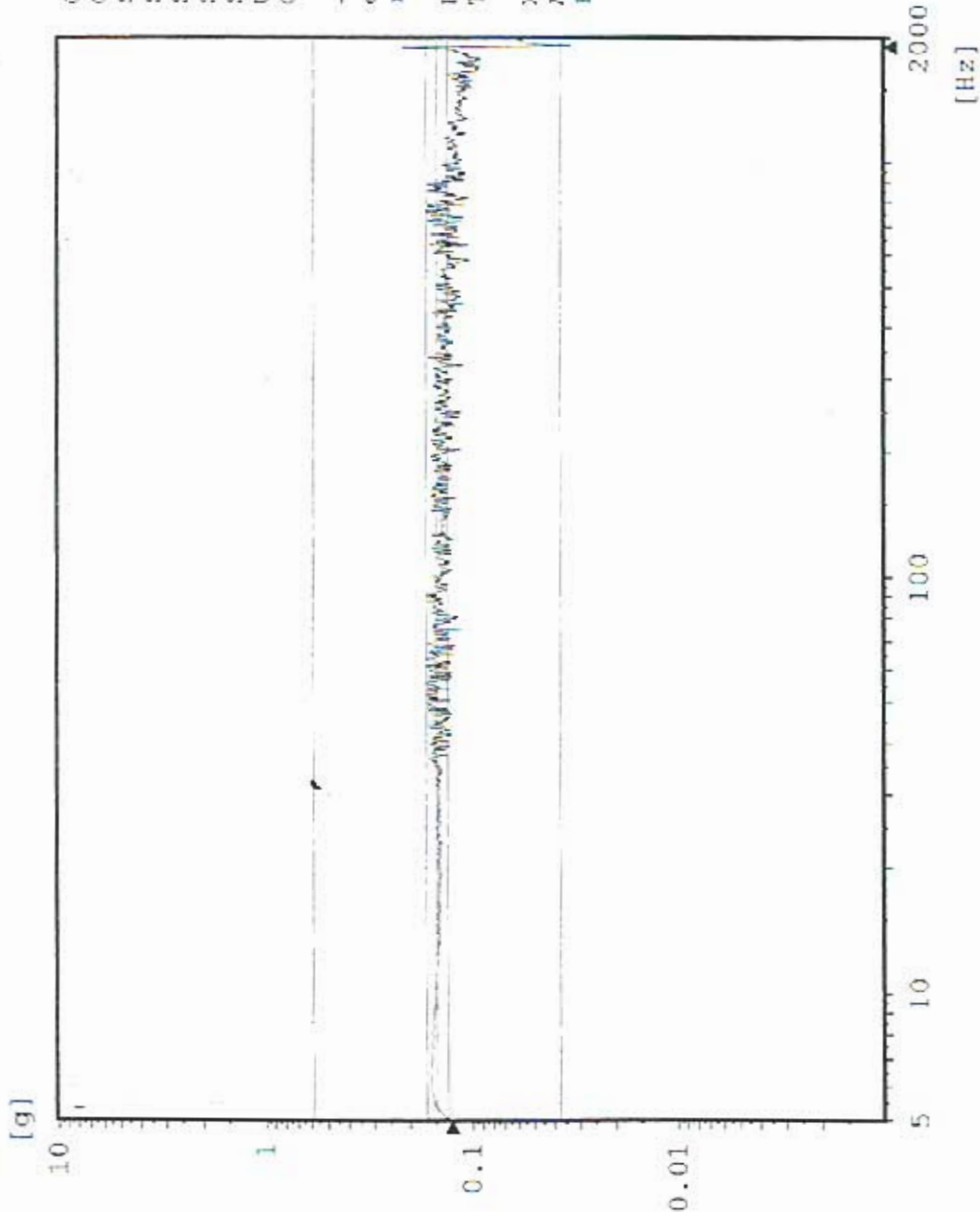
FREE LIBRARY DATA

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: 05-11-05
Time: 11:02:06

X - axis
Acceptance Unit
Fixture only

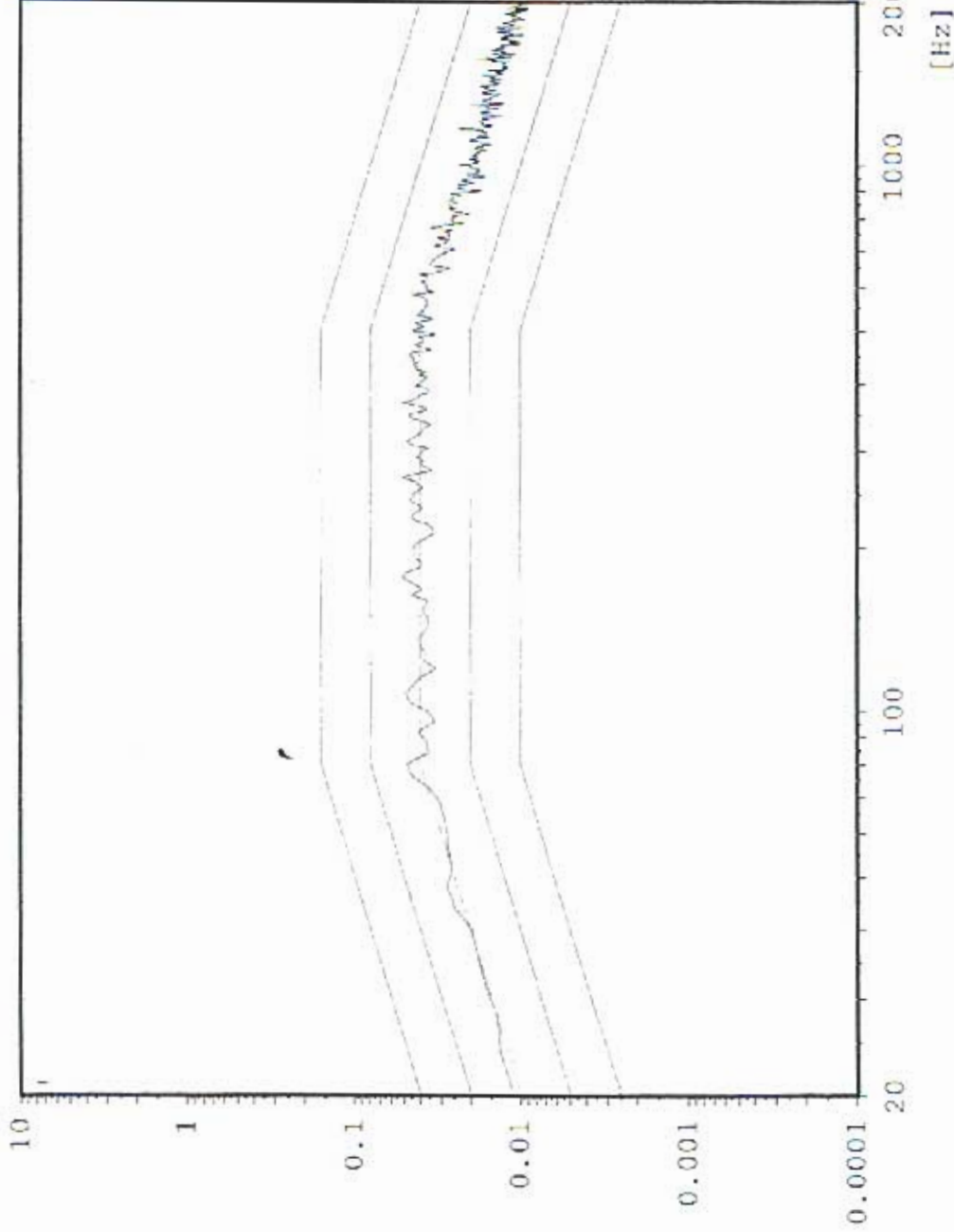


CX1 X-Axis Control

Random
Stanford Linear Accelerator
J/N 49995.51972
TEM & TPS

wyle
Instruments
PRELIMINARY DATA

[g²/Hz]



Chan.no: 1
Chan.type: C
DOF: 126
Level: 0.0 dB
Resolution: 4 Hz
Contr.strat.: Average
Unit: g²/Hz
RMS (act.): 6.846 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: 05-11-05
Time: 11:29:53

X - Axis
Acceptance Unit
Fixture Only

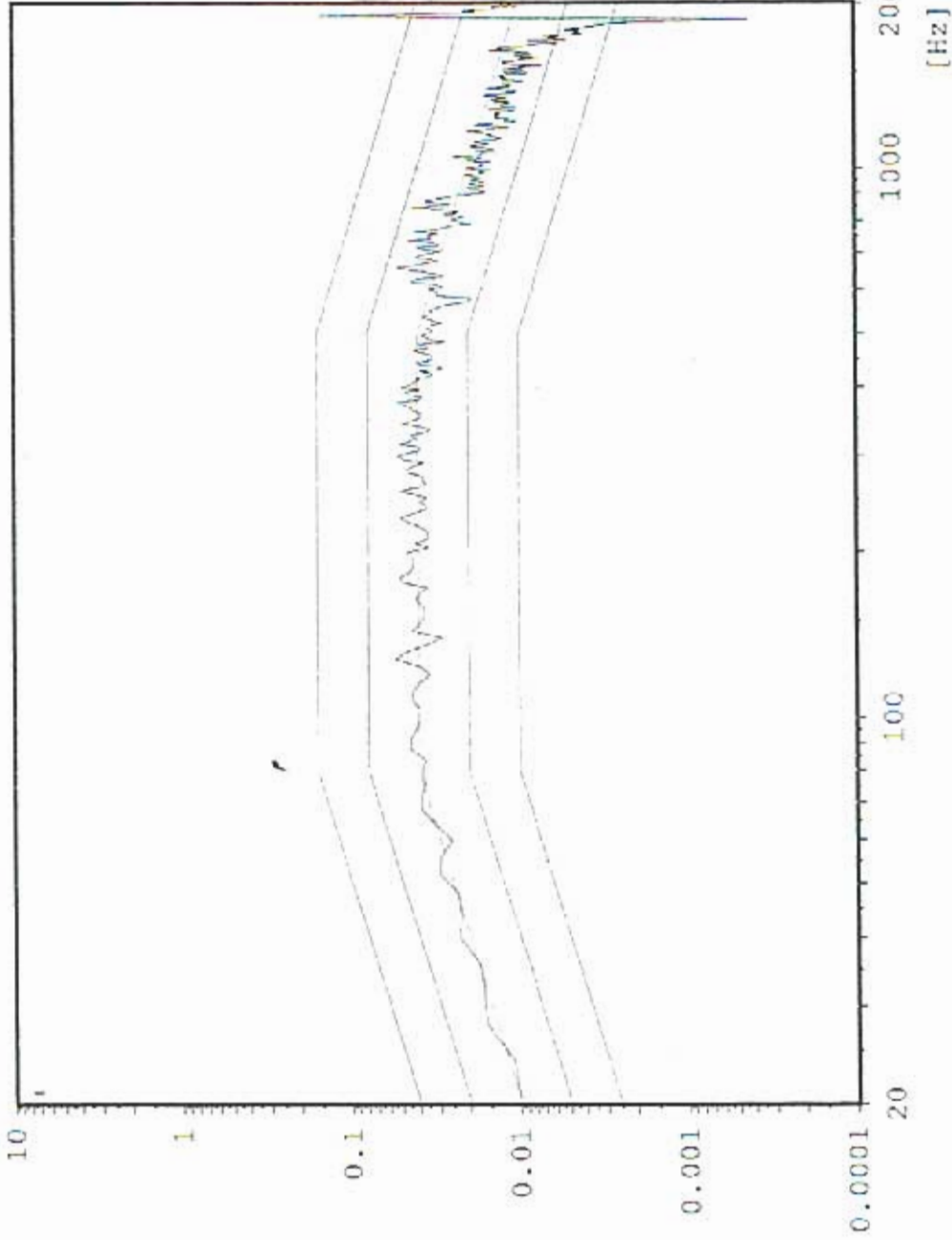
AX4 TPS Top Edge

Random
Stanford Linear Accelerator
J/N 49995.51972
TEM & TPS



PRELIMINARY DATA

[g²/Hz]



Chan.no: 2
Chan.type: M
DOF: 100
Level: 0.0 dB
Resolution: 4 Hz
Contr.strat.: ~~Average~~
Unit: g²/Hz
RMS (act.): 6.812 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: 05-11-05
Time: 11:29:53

X - Axis
Acceptance Unit
Fixture Only

AX3 TPS Top Center

Random

Stanford Linear Accelerator

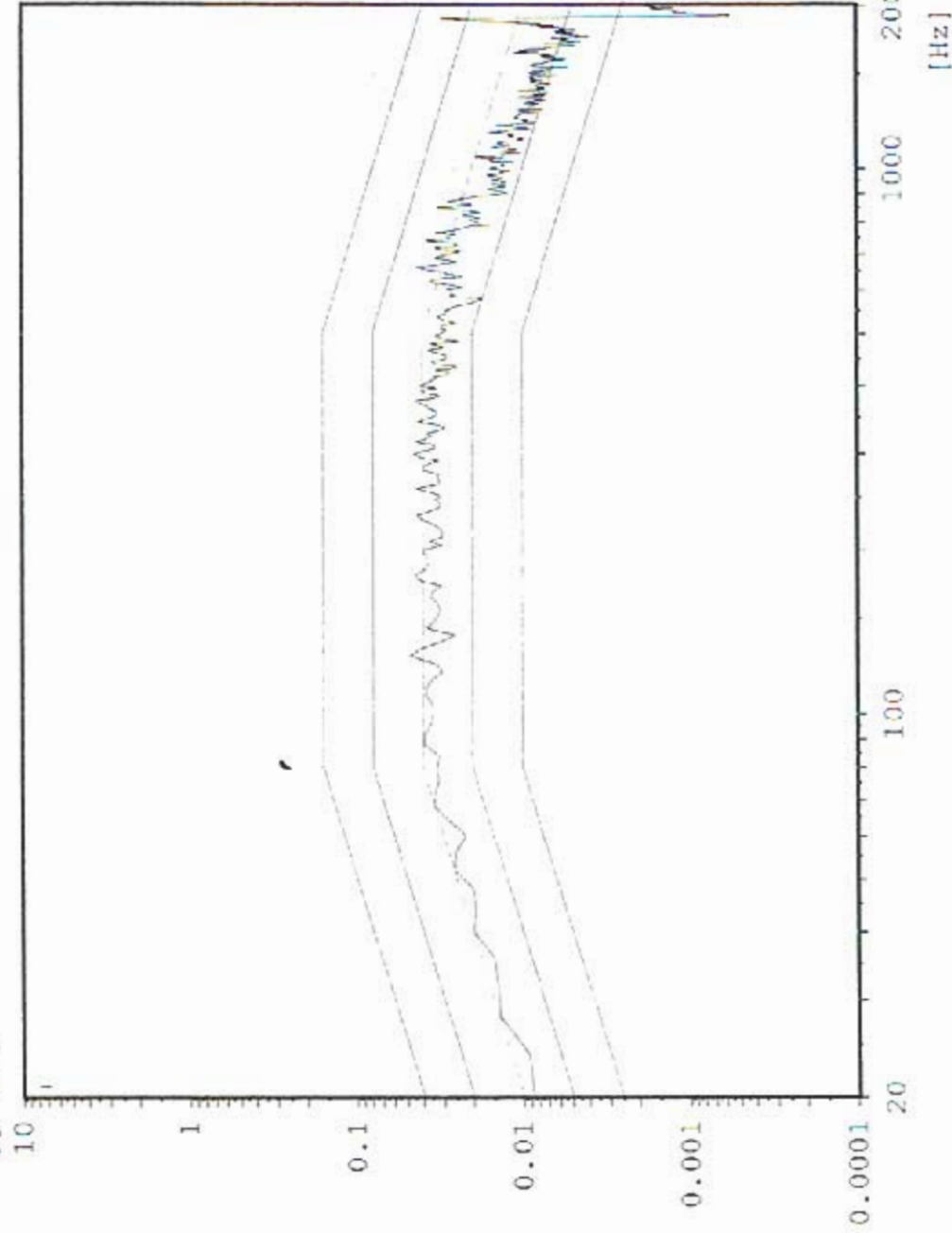
J/N 49995.51972

TEM & TPS



PRIMARY DATA

[g²/Hz]



Chan.no: 3
Chan.type: M
DOF: 100
Level: 0.0 dB
Resolution: 4 Hz
Contr.strat.: ~~Acceptance~~
Unit: g²/Hz
RMS (act.): 6.032 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: 060:02:54
remaining: 000:00:00

Date: 05-11-05
Time: 11:29:53

X - Axis
Acceptance Unit
Fixture Only

CZ1 Z-Axis Control

Sine
Stanford Linear Accelerator
J/N 49995.51972
TEM / TPS



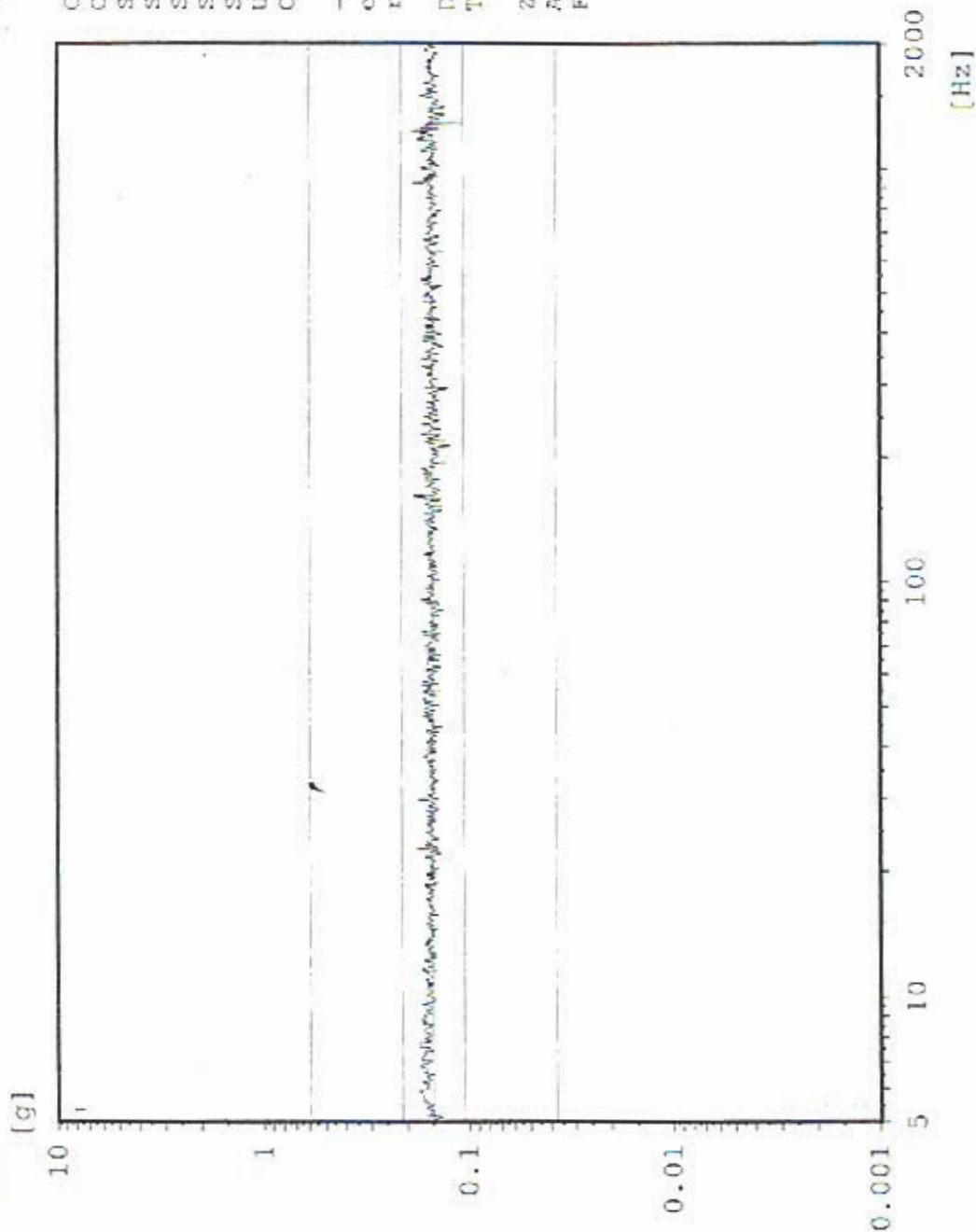
17-211 (M) 1/10/00

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: 05-11-05
Time: 19:24:30

Z - axis
Acceptance Unit
Fixture Only



AZ4 TPS Boss 2

Sine
Stanford Linear Accelerator
J/N 49995-51972
TEM / TFS



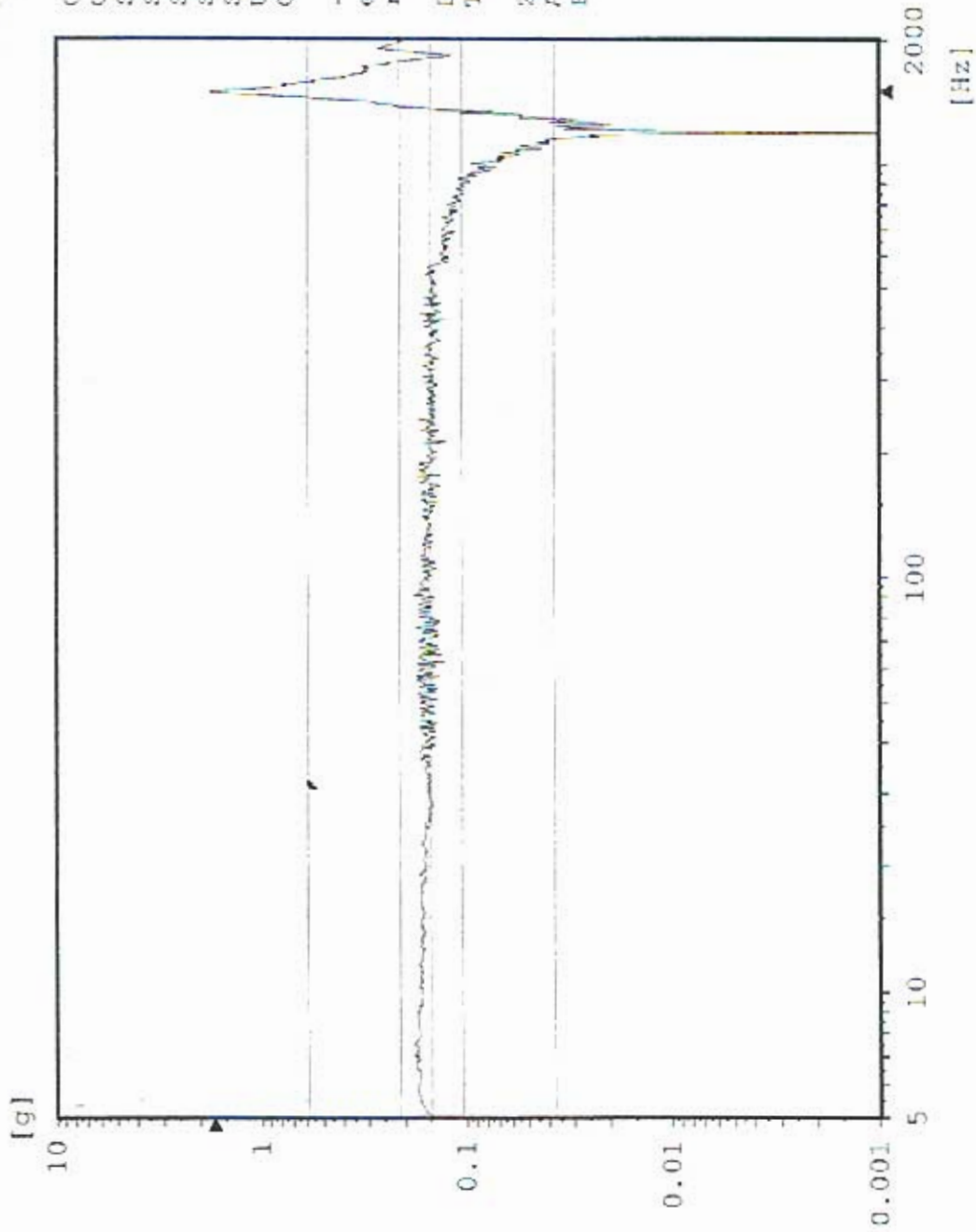
TEMPERATURE DATA

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: 05-11-05
Time: 19:24:30

Z - axis
Acceptance Unit
Fixture Only



AZ3 TPS Boss 1

Sine
Stanford Linear Accelerator
J/N 49995.51972
TEM / TPS



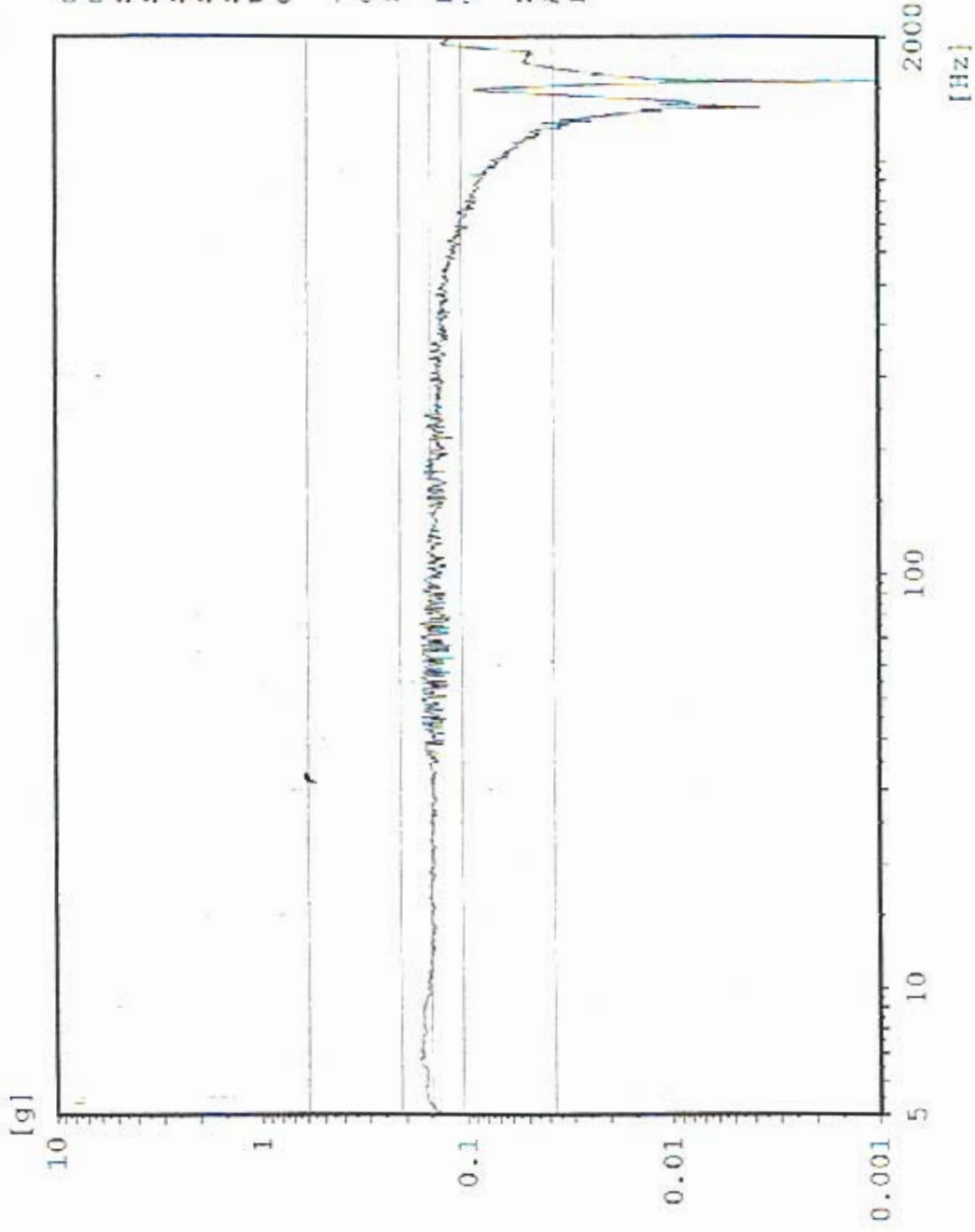
PRELIMINARY DATA

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: 05-11-05
Time: 19:24:30

Z - axis
Acceptance Unit
Fixture Only



CZ1 Z-Axis Control

Random
Stanford Linear Accelerator
J/N 49995.51972
TEM & TPS



PRELIMINARY DATA

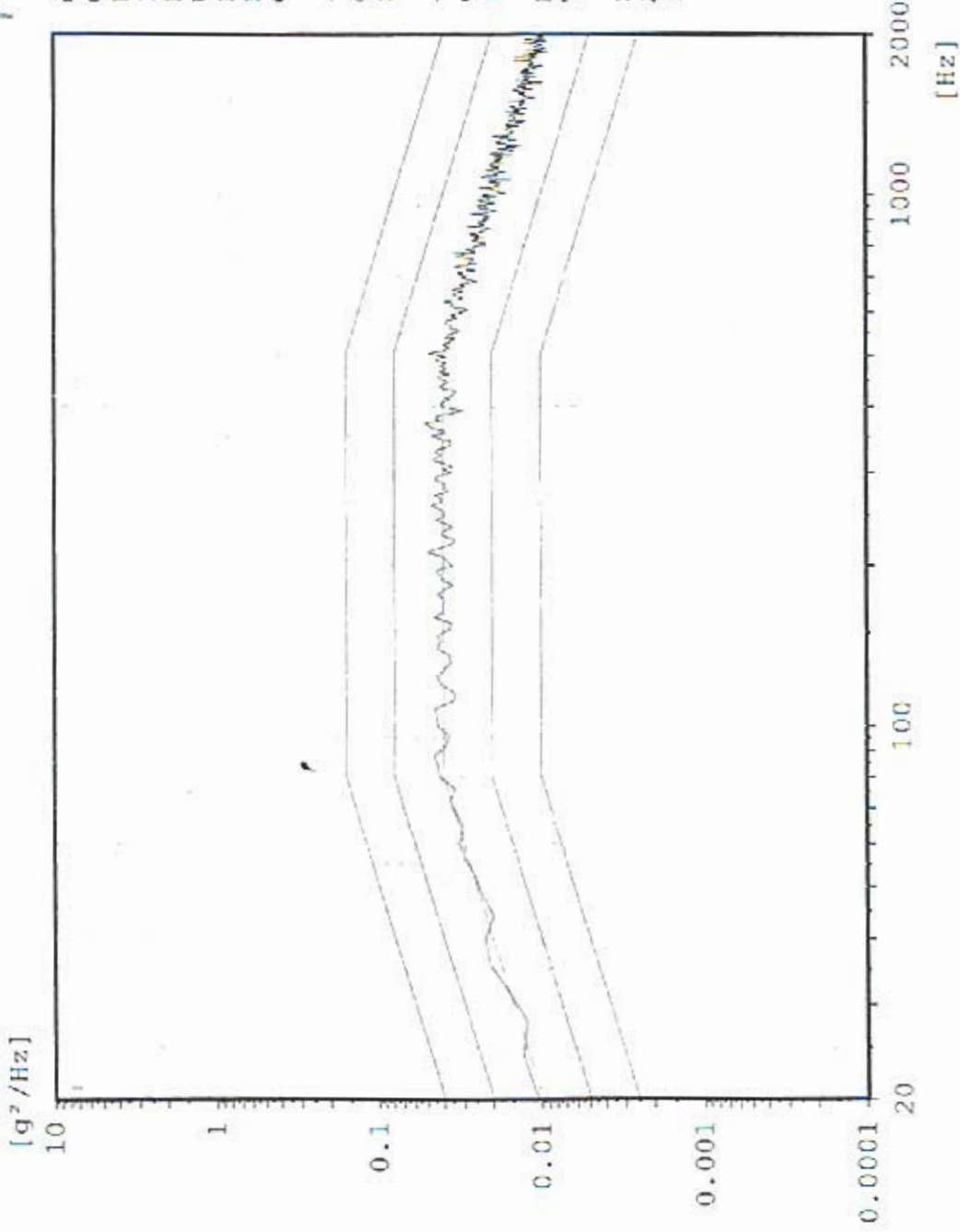
Chan.no: 1
Chan.type: C
DOF: 126
Level: 0.0 dB
Resolution: 4 Hz
Unit: g^2/Hz
RMS (act.): 6.824 g
RMS (req.): 6.787 g
Contr.strat.: Closed loop

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

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

Date: 05-11-05
Time: 19:34:33

Z - Axis
Acceptance Unit
Fixture Only



4ax: 1492 Hz 1.611 g²/Hz

AZ4 TPS Boss 2

Random
Stanford Linear Accelerator
J/N 49995.51972
TEM & TPS



PRELIMINARY DATA

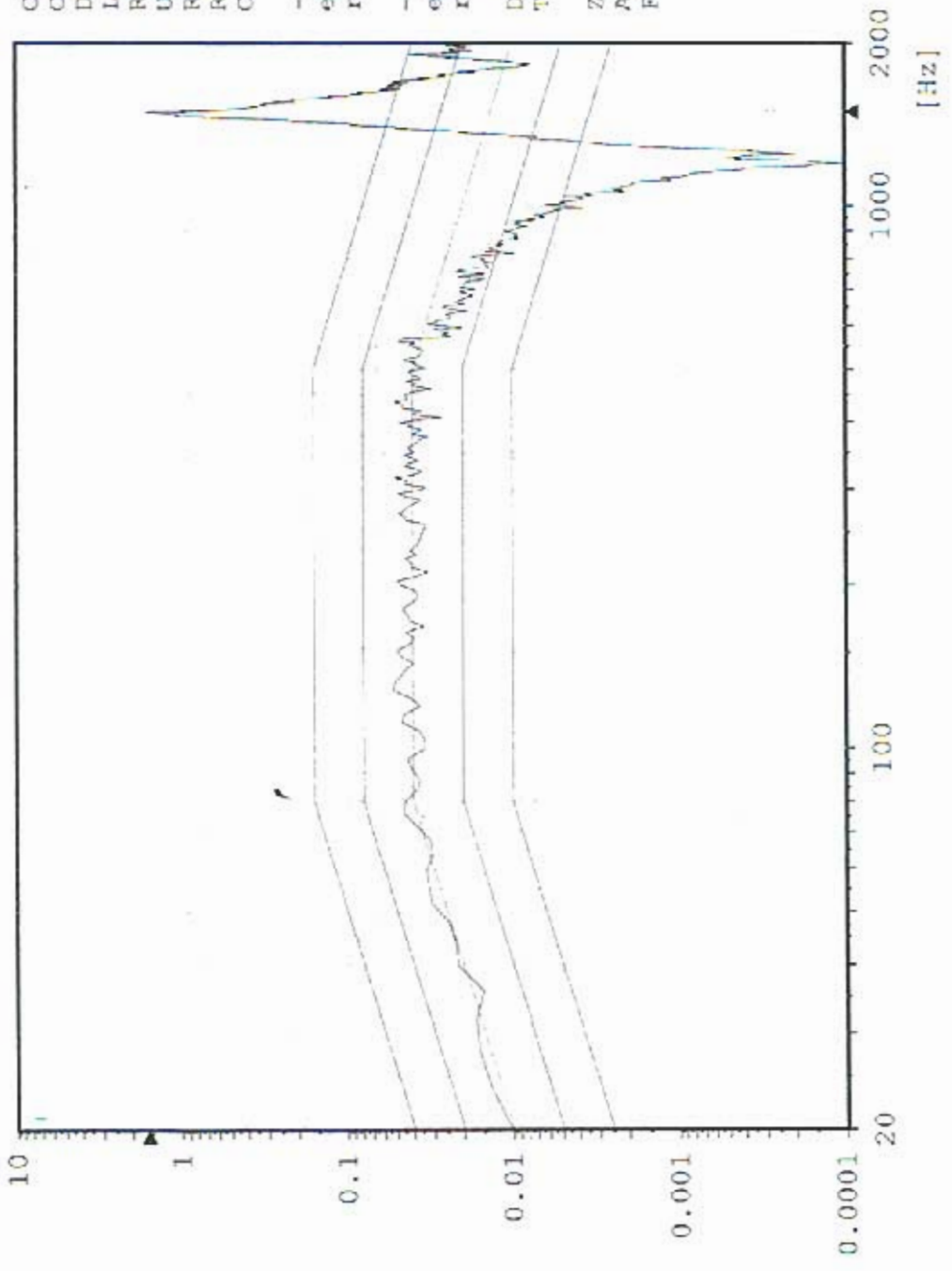
Chan.no: Z
 Chan.type: M
 DOF: 100
 Level: 0.0 dB
 Resolution: 4 Hz
 Unit: g²/Hz
 RMS (act.): 11.47 g
 RMS (req.): 6.787 g
 Contr.strat.: Closed loop

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

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

Date: 05-11-05
 Time: 19:34:33

Z - Axis
 Acceptance Unit
 Fixture Only

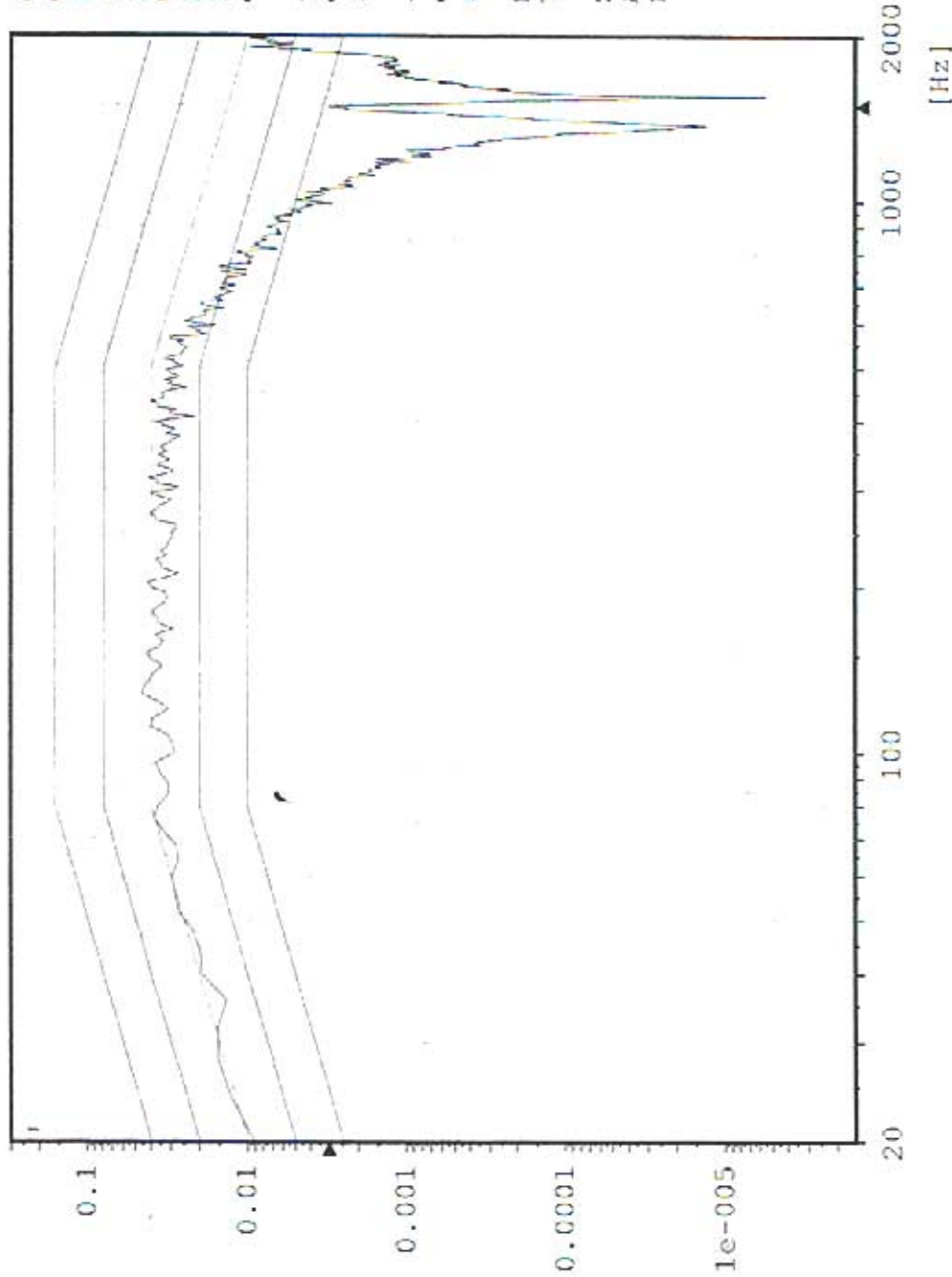


Cursor: 1492 Hz 0.003101 g²/Hz

AZ3 TPS Boss 1

Random
Stanford Linear Accelerator
J/N 49995.51972
TEM & TPS

[g²/Hz]



wyle
laboratories

PRELIMINARY DATA

Chan.no: 3
Chan.type: M
DOF: 100
Level: 0.0 dB
Resolution: 4 Hz
Unit: g²/Hz
RMS (act.): 4.916 g
RMS (req.): 6.787 g
Contr.strat.: Closed loop

-- Time on act. level --
elapsed: 000:01:01
remaining: 060:00:-1

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

Date: 05-11-05
Time: 19:34:33

Z - Axis
Acceptance Unit
Fixture Only

Sine CX1 X-Axis Control

Stanford Linear Accelerator
J/N 49995.51972
TEM / TPS



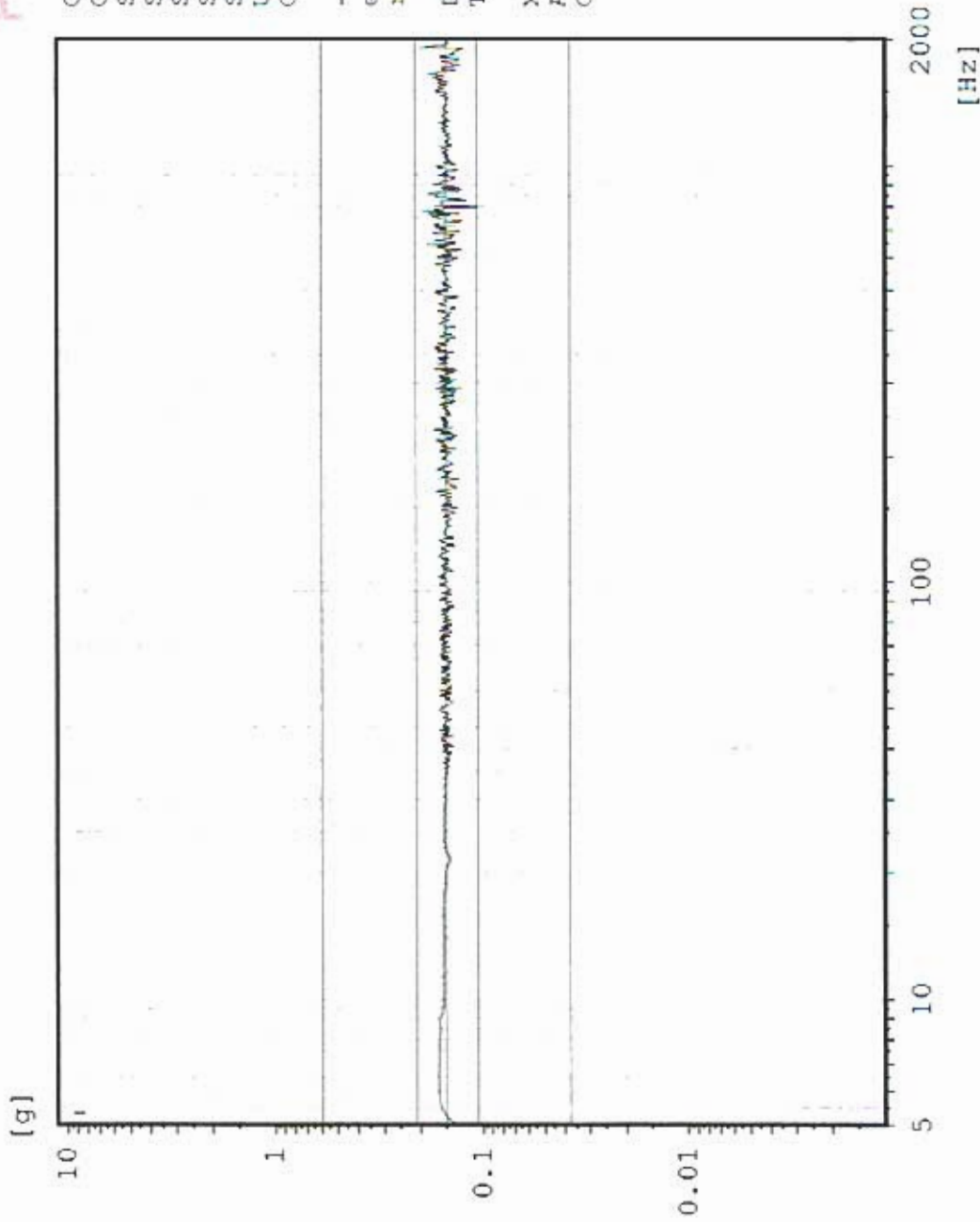
PRELIMINARY DATA

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: 05-11-05
Time: 16:37:31

X - axis Pre Random
Acceptance Unit
GLAT 1834



AX3 TPS top center

Sine
Stanford Linear Accelerator
J/N 49995.51972
TEM / TPS



PRELIMINARY DATA

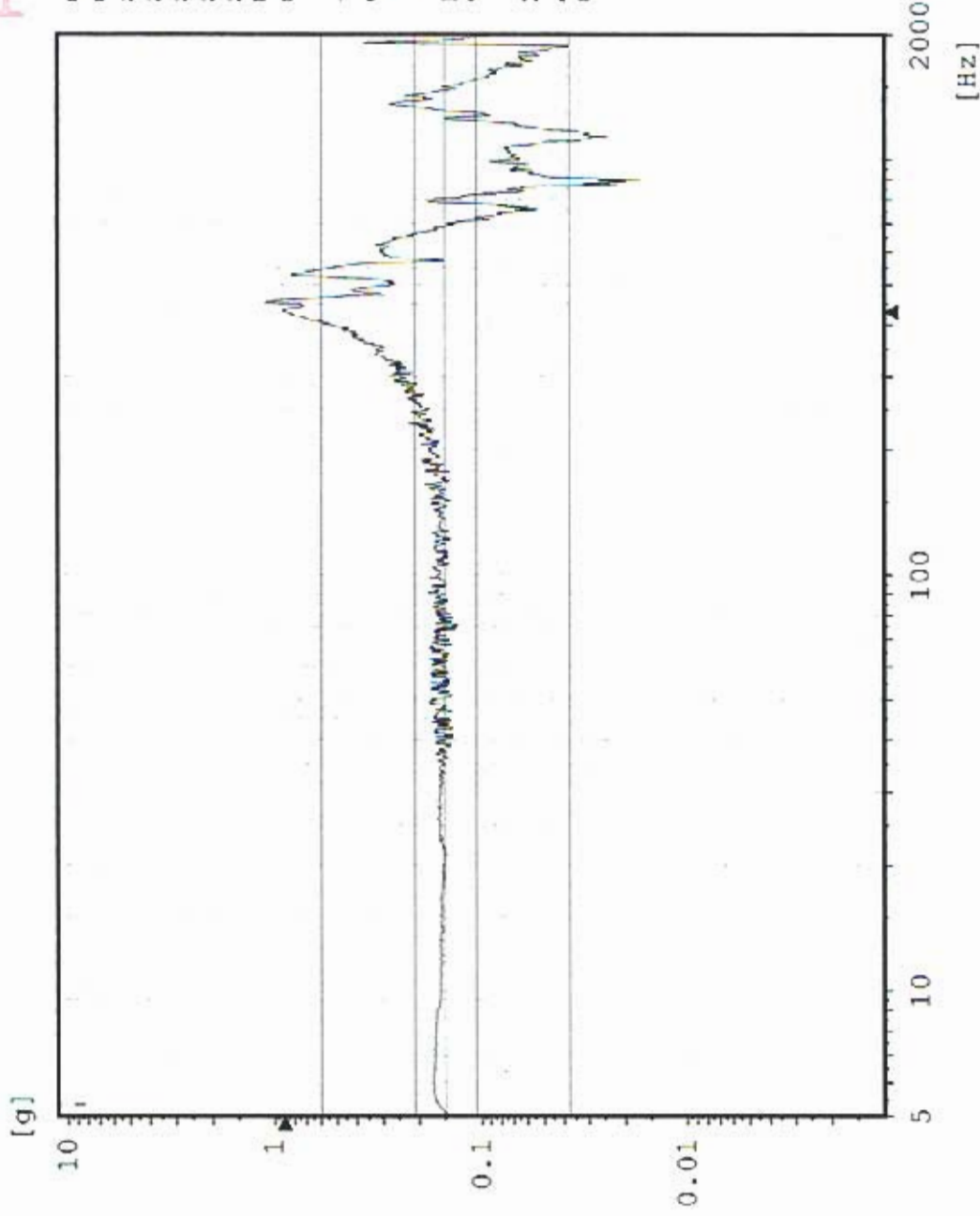
Chan.no: 2
Chan.type: M Filtered
Sweep type: logarithmic
Sweeps done: 1
Sweeps req.: 1
Sweep direct.: up
Sweep rate: 2.00 Oct/min
Unit: g
Contr.strat.: Closed loop

-- Testing time --

elapsed: 000:04:18
remaining: 000:00:00

Date: 05-11-05
Time: 16:37:31

X - axis Pre Random
Acceptance Unit
GLAT 1834



AX4 TPS top edge

Sine
Stanford Linear Accelerator
J/N 49995.51972
TEM / TPS



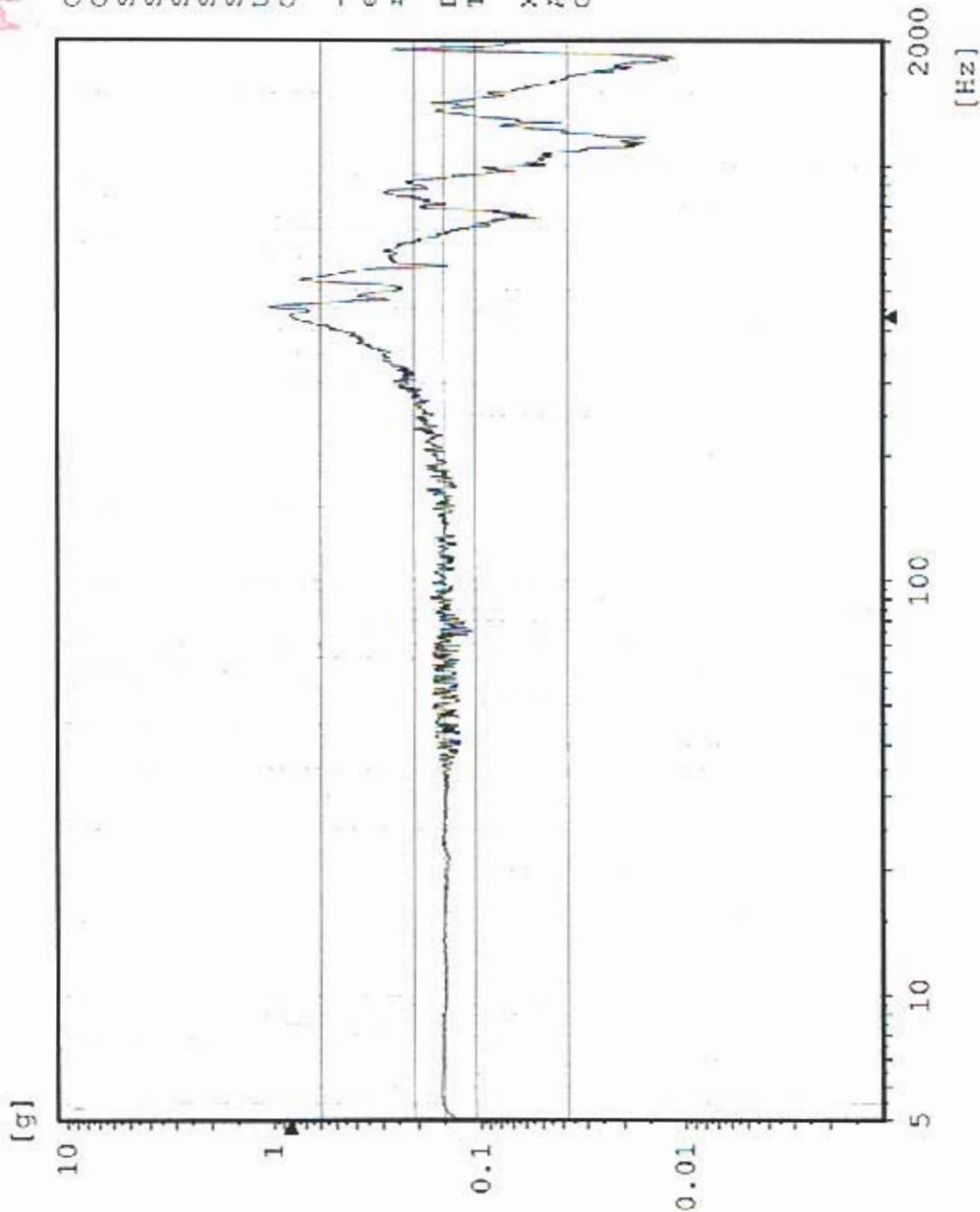
PRELIMINARY DATA

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: 05-11-05
Time: 16:37:31

X - axis Pre Random
Acceptance Unit
GLAT 1834



Sine AXI TEM center edge

Stanford Linear Accelerator
J/N 49995.51972
TEM / TPS



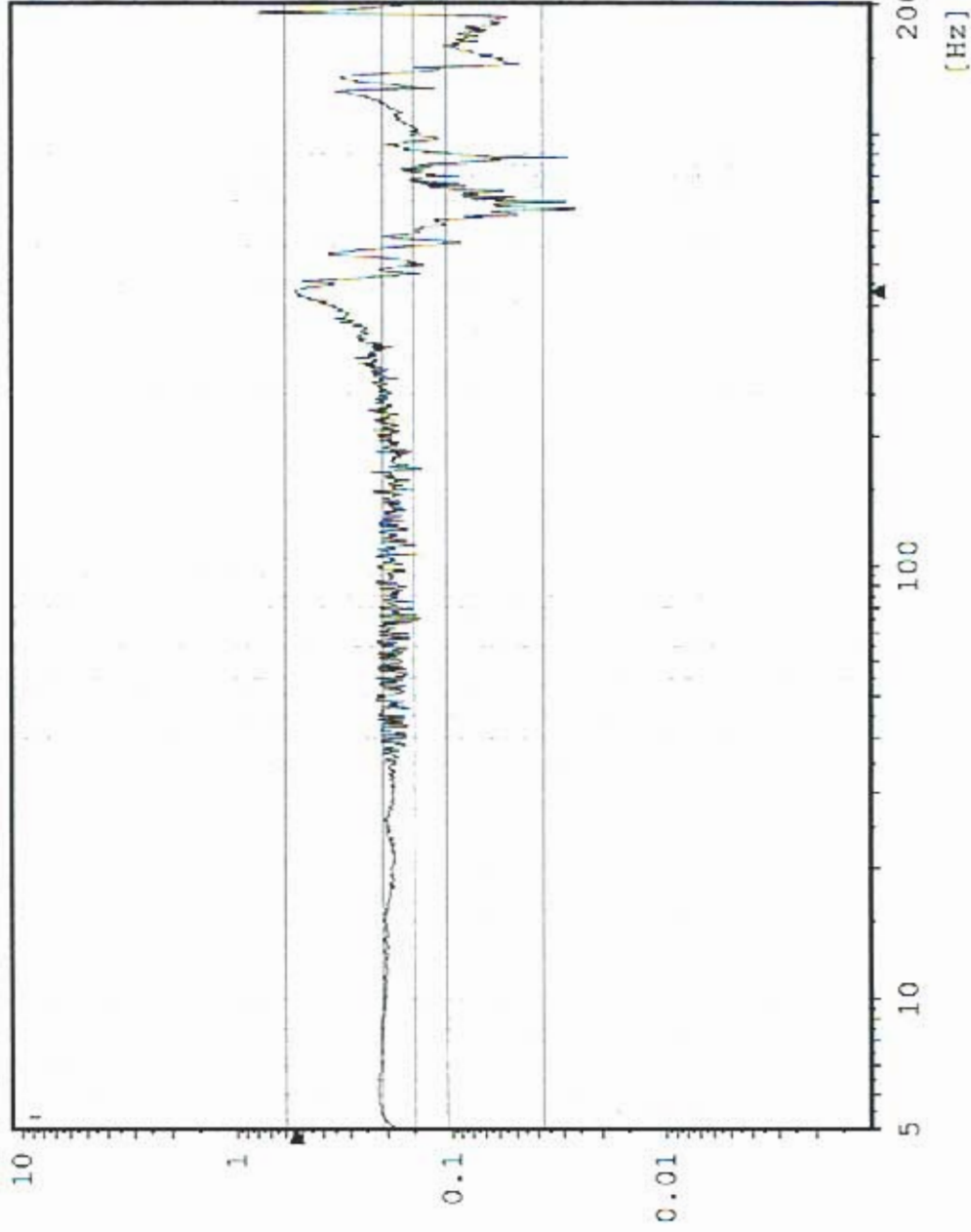
PRELIMINARY DATA

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: 05-11-05
Time: 16:37:31

X - axis Pre Random
Acceptance Unit
GLAT 1834



AX2 TPS CG

Sine
Stanford Linear Accelerator
J/N 49995.51972
TEM / TPS



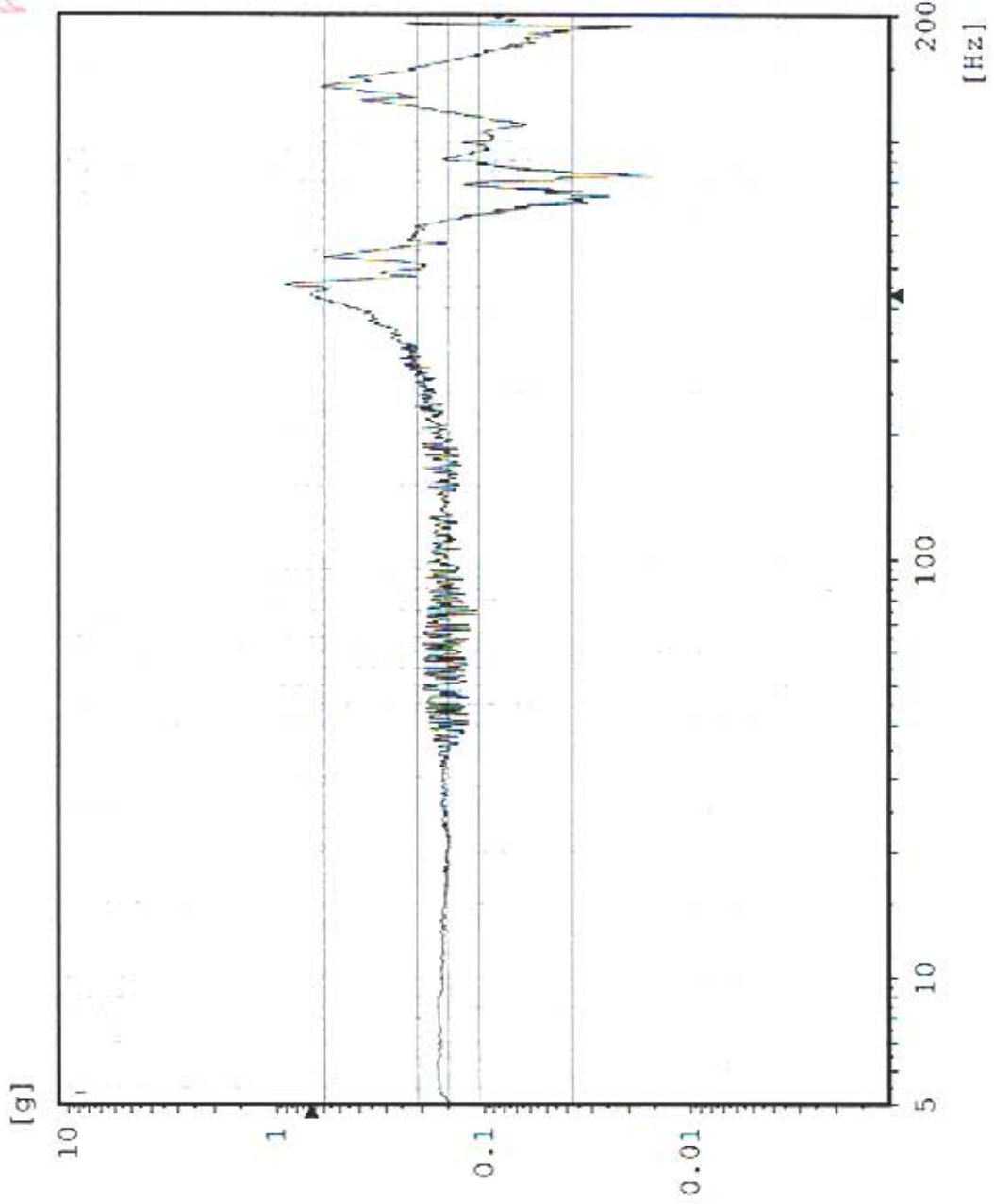
PRELIMINARY DATA

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: 05-11-05
Time: 16:37:31

X - axis Pre Random
Acceptance Unit
GLAT 1834



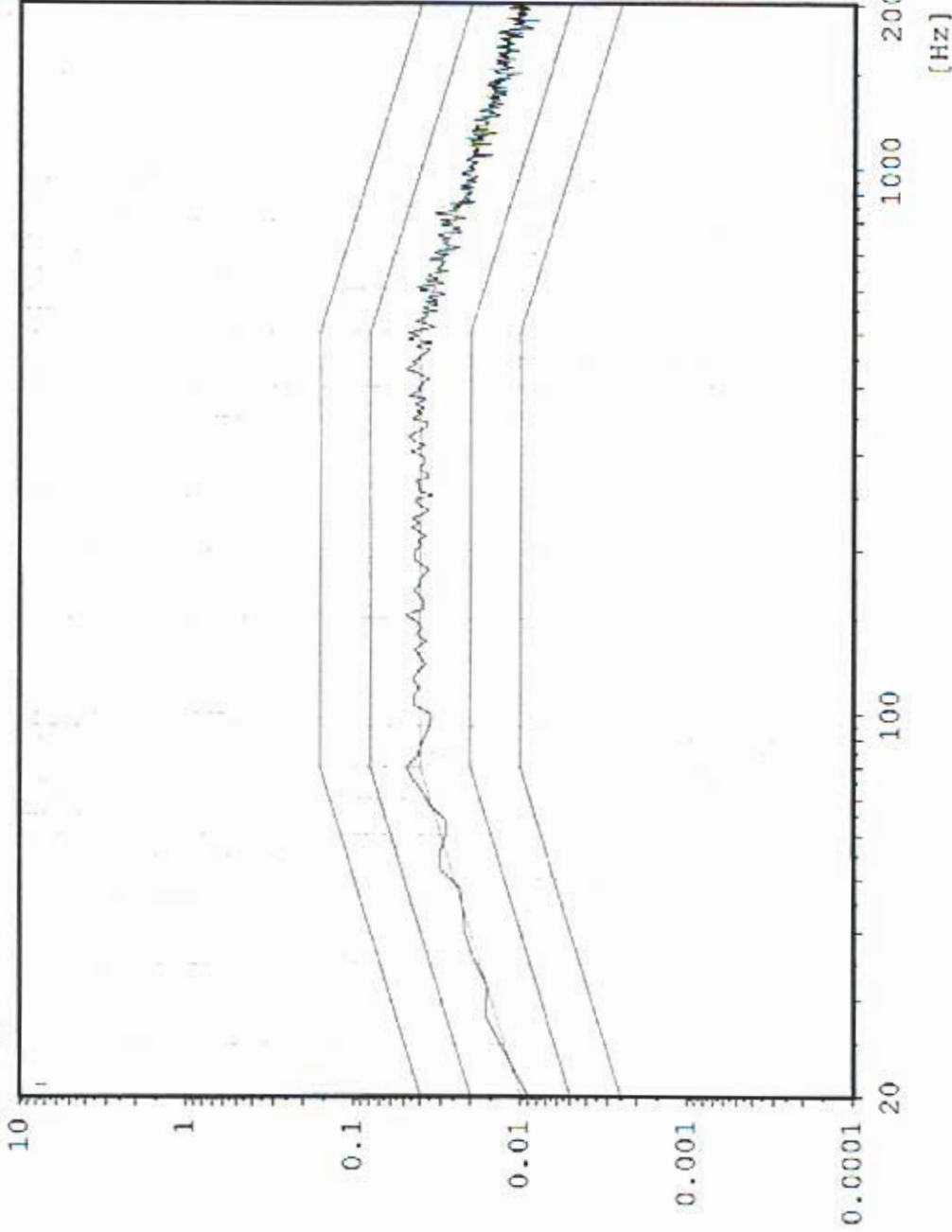
Random CX1 X-Axis Control

Stanford Linear Accelerator
J/N 49995.51972
TEM & TPS



PRELIMINARY

[g²/Hz]



Chan.no: 1
Chan.type: C
DOF: 126
Level: 0.0 dB
Resolution: 4 Hz
Unit: g²/Hz
RMS (act.): 6.837 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: 05-11-05
Time: 16:46:00

X - Axis
Acceptance Unit
GLAT 1834

Max: 424 Hz 1.329 g²/Hz

Random AX4 TPS Top Center

Stanford Linear Accelerator
J/N 49995.51972
TEM & TPS



PRELIMINARY DATA

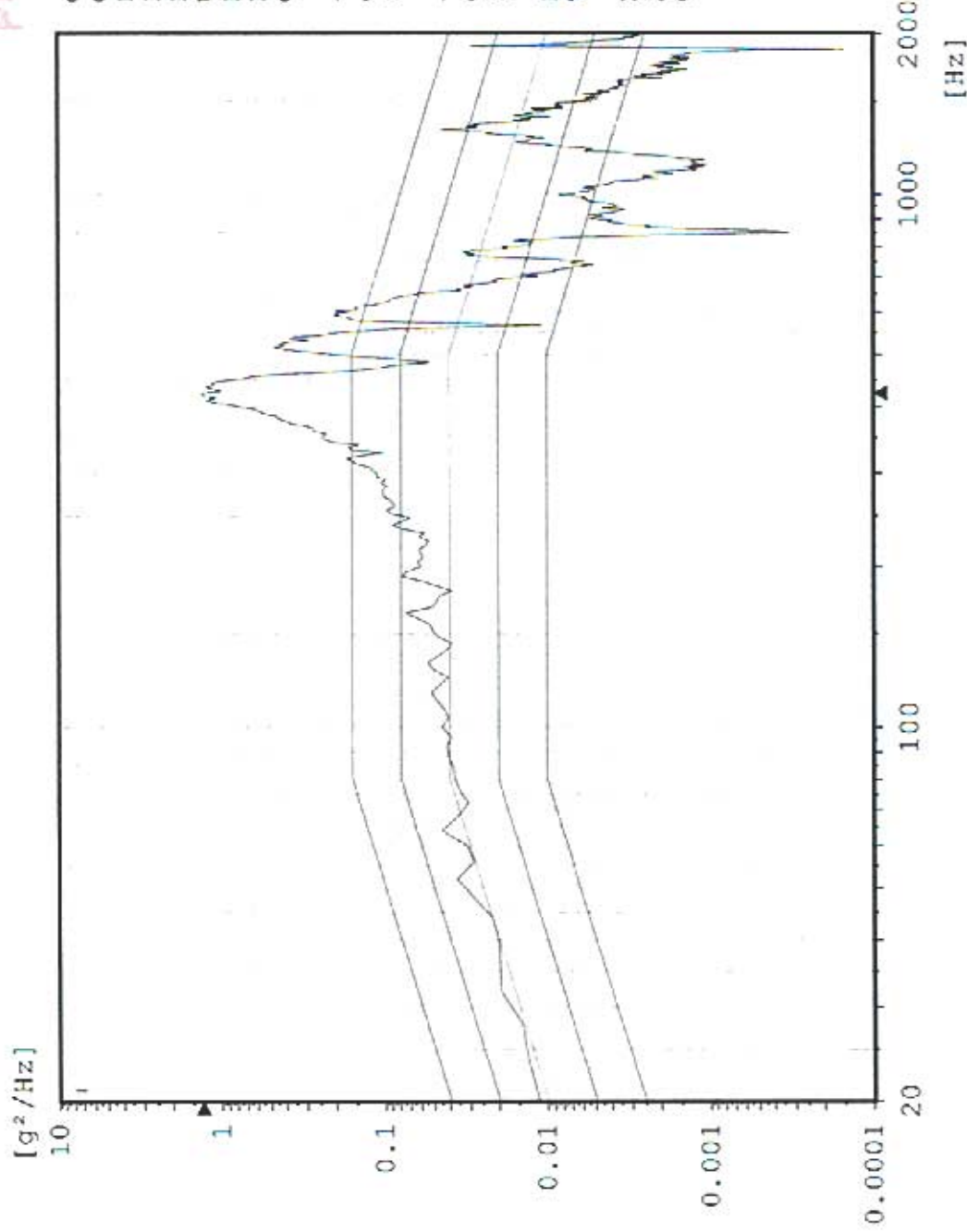
Chan.no: 2
Chan.type: M
DOF: 100
Level: 0.0 dB
Resolution: 4 Hz
Unit: g²/Hz
RMS (act.): 12.32 g
RMS (req.): 6.787 g
Contr.strat.: Closed loop

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

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

Date: 05-11-05
Time: 16:46:00

X - Axis
Acceptance Unit
GLAT 1834



Max: 424 Hz 1.158 g²/Hz

AX3 TPS Top Edge

Random
Stanford Linear Accelerator
J/N 49995.51972
TEM & TPS



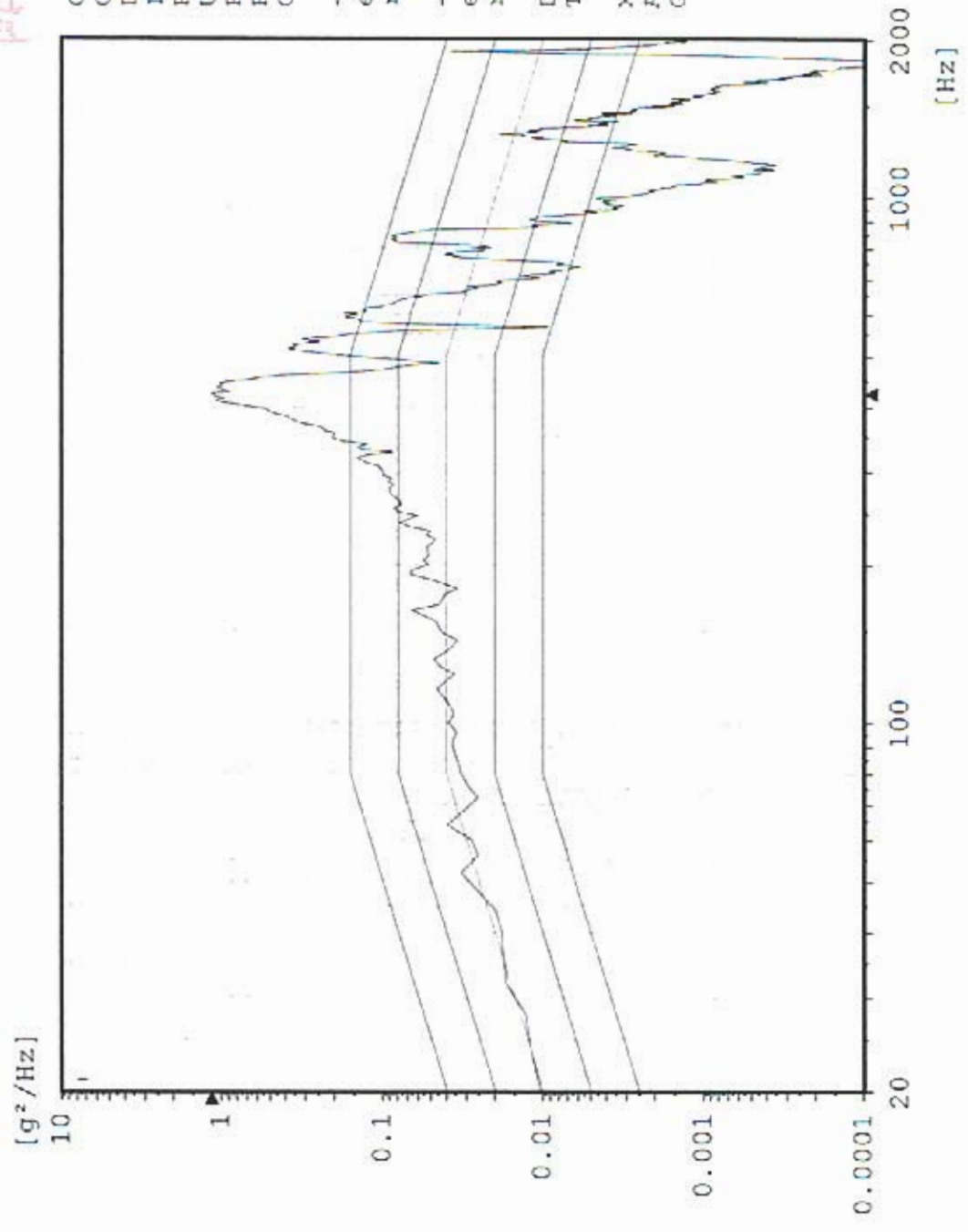
PRELIMINARY DATA

Chan.no: 3
Chan.type: M
DOF: 100
Level: 0.0 dB
Resolution: 4 Hz
Unit: g²/Hz
RMS (act.): 11.55 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: 05-11-05
Time: 16:46:00

X - Axis
Acceptance Unit
GLAT 1834



Max: 412 Hz 0.4608 g²/Hz

CH# 5 TEM center edge

Random

Stanford Linear Accelerator
J/N 49995.51972
TEM & TPS



PRELIMINARY DATA

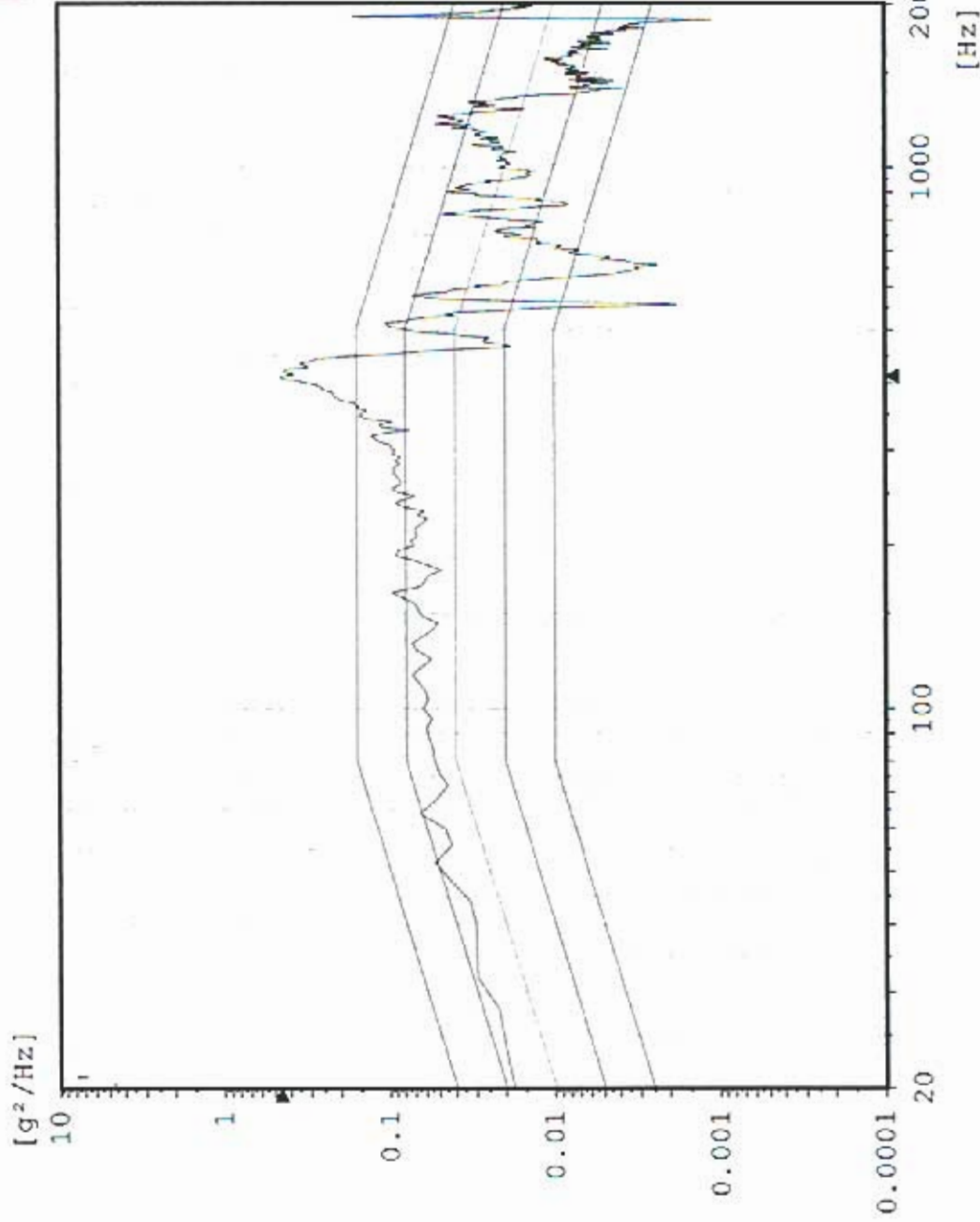
Chan.no: 5
Chan.type: M
DOF: 100
Level: 0.0 dB
Resolution: 4 Hz
Unit: g²/Hz
RMS (act.): 9.122 g
RMS (req.): 6.787 g
Contr.strat.: Closed loop

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

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

Date: 05-11-05
Time: 16:46:00

X - Axis
Acceptance Unit
GLAT 1834



Max: 424 Hz 0.7774 g²/Hz

Random AX2 TPS Bottom center

Stanford Linear Accelerator
J/N 49995.51972
TEM & TPS



PRELIMINARY DATA

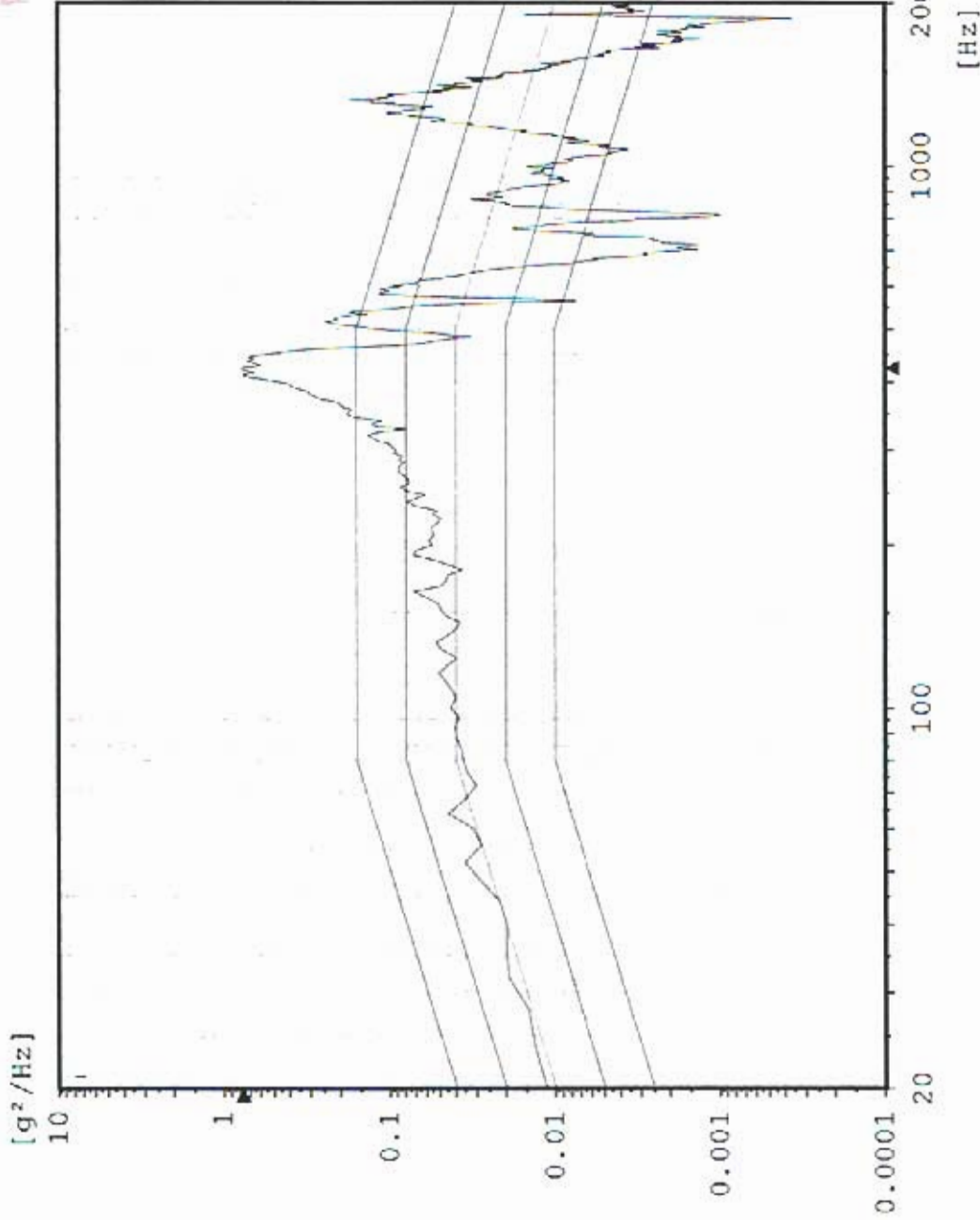
Chan.no: 10
 Chan.type: M
 DOF: 100
 Level: 0.0 dB
 Resolution: 4 Hz
 Unit: g²/Hz
 RMS (act.): 10.8 g
 RMS (req.): 6.787 g
 Contr.strat.: Closed loop

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

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

Date: 05-11-05
 Time: 16:46:00

X - Axis
 Acceptance Unit
 GLAT 1834



Sine CX1 X-Axis Control

Stanford Linear Accelerator
J/N 49995.51972
TEM / TPS



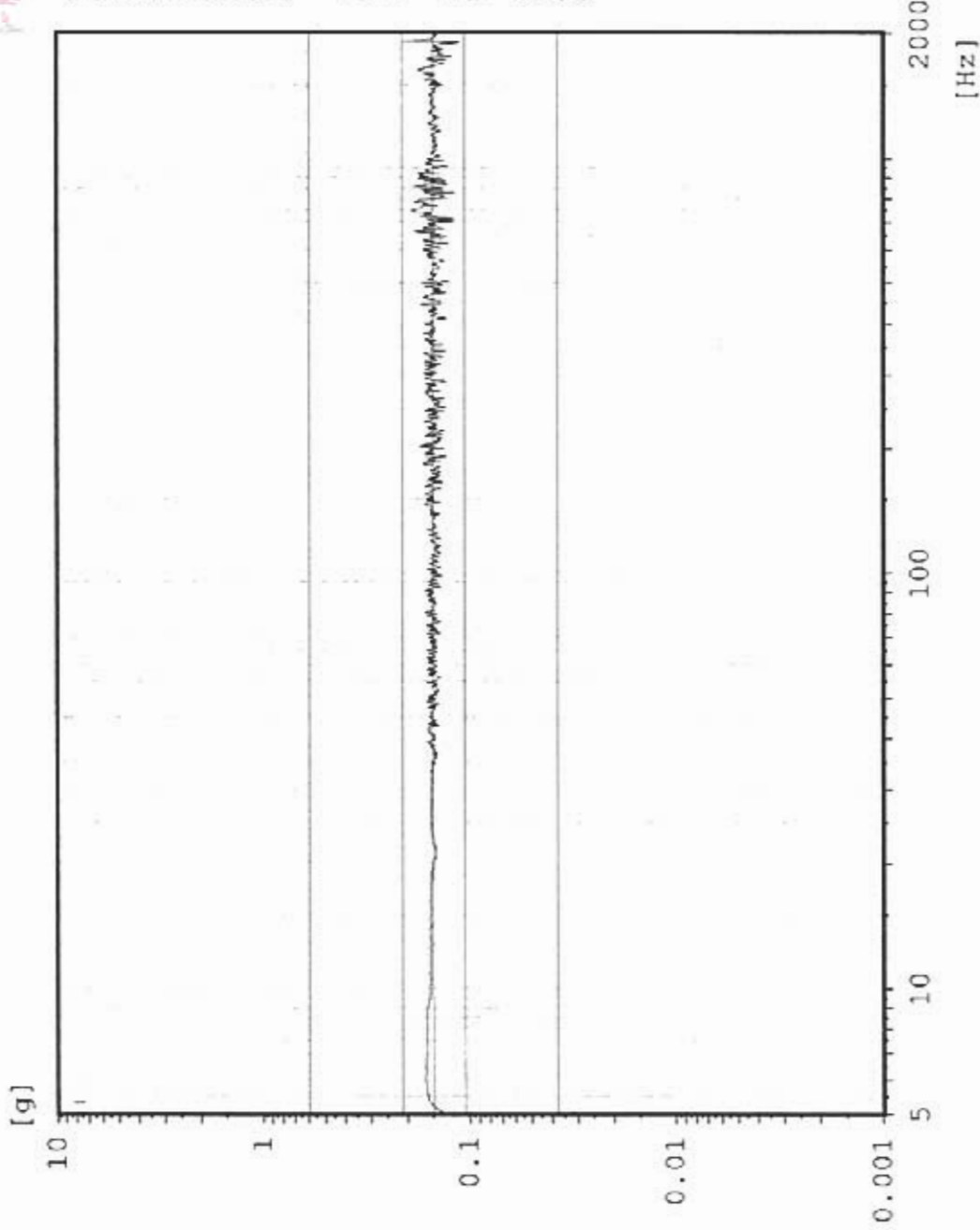
PRELIMINARY DATA

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: 05-11-05
Time: 16:55:29

X - axis Post Random
Acceptance Unit
GLAT 1834

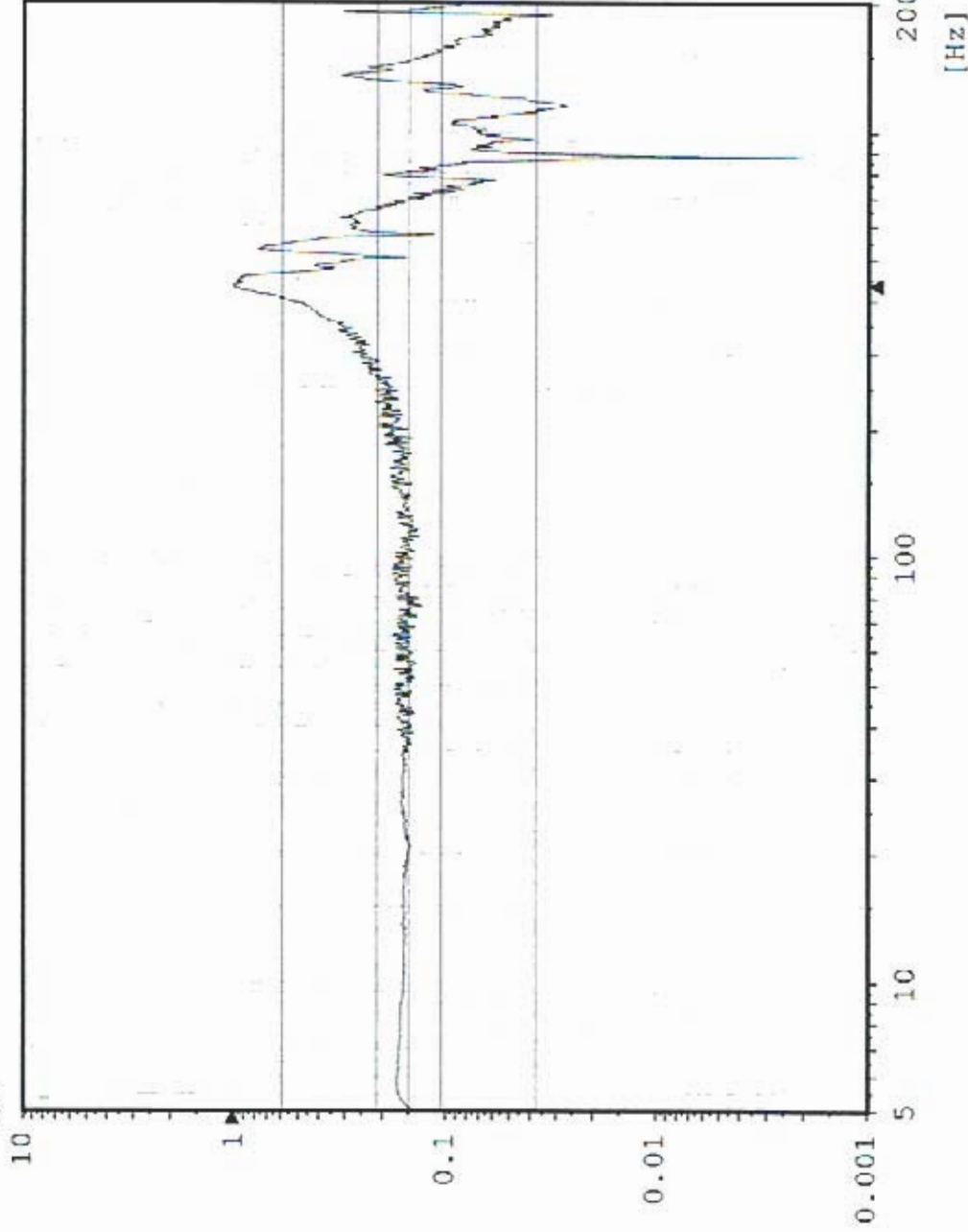


Sine AX3 TPS top center

Stanford Linear Accelerator
J/N 4995.51972
TEM / TPS



PRELIMINARY DATA



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: 00:04:18
 remaining: 00:00:00

Date: 05-11-05
 Time: 16:55:29

X - axis Post Random
 Acceptance Unit
 GLAT 1834

AX4 TPS top edge

Sine

Stanford Linear Accelerator
J/N 49995.51972
TEM / TPS



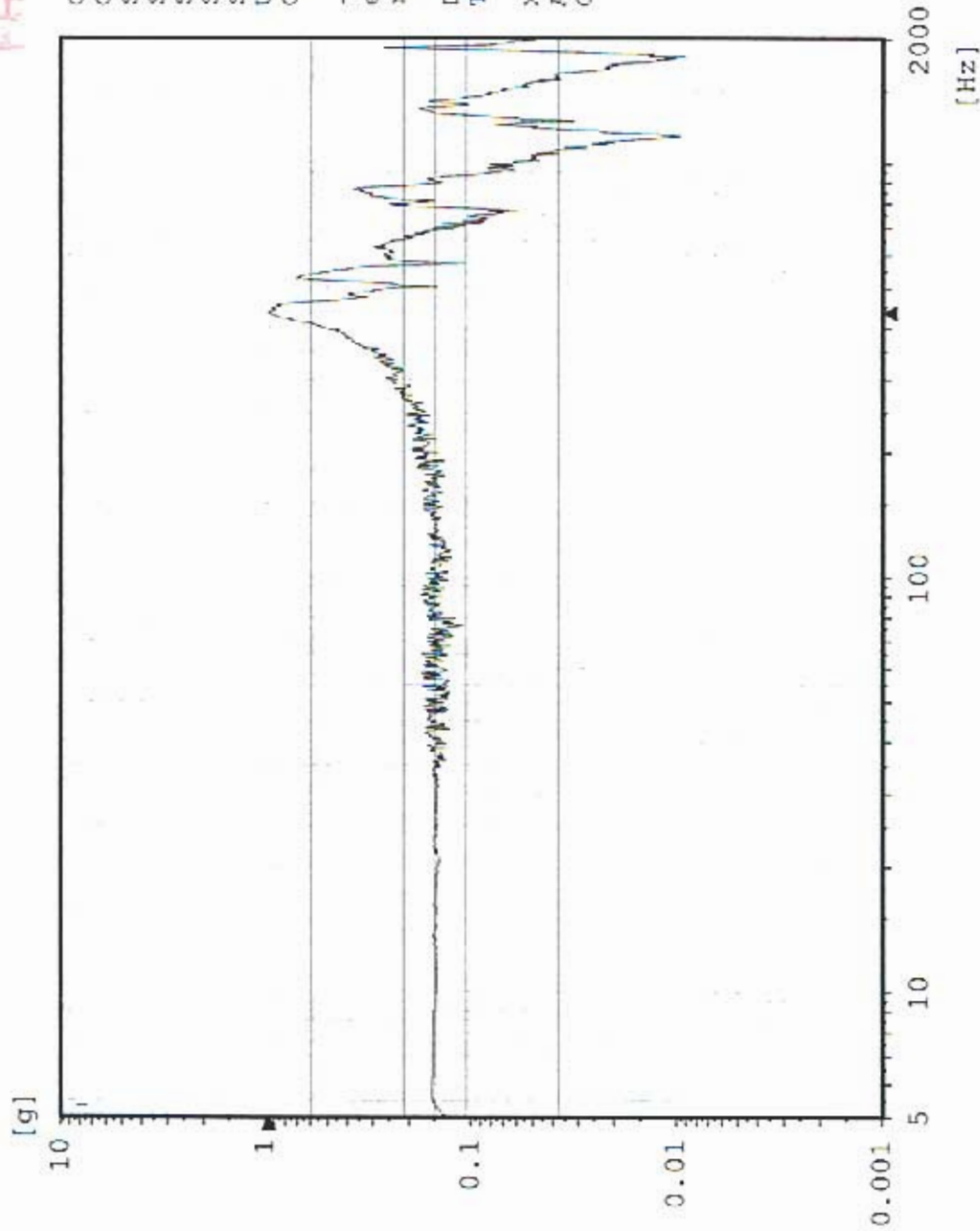
PRELIMINARY DATA

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: 05-11-05
 Time: 16:55:29

X - axis Post Random
 Acceptance Unit
 GLAT 1834



AX1 TEM center edge

Sine
Stanford Linear Accelerator
J/N 49995.51972
TEM / TPS



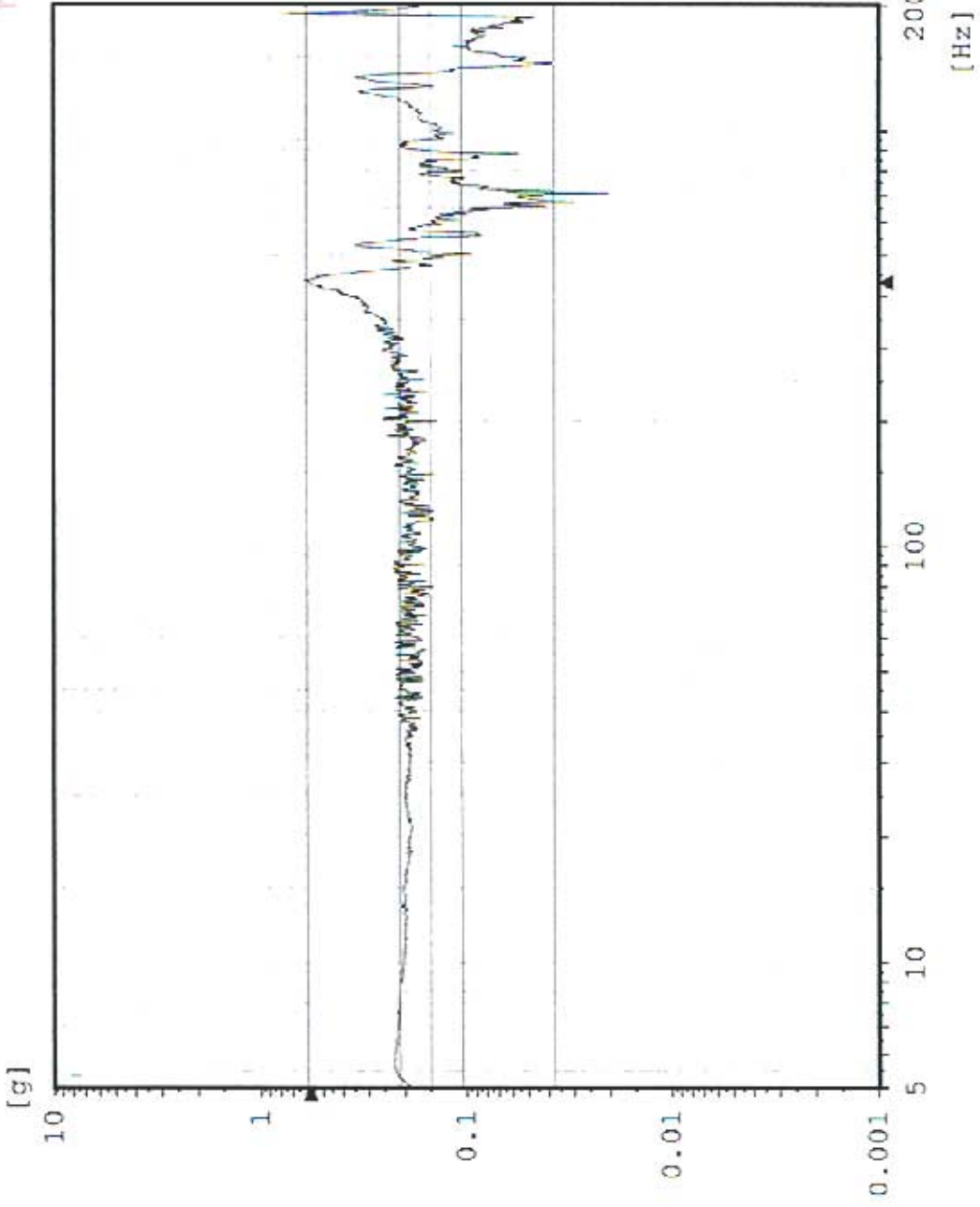
PRELIMINARY DATA

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: 05-11-05
Time: 16:55:29

X - axis Post Random
Acceptance Unit
GLAT 1834



AX2 TPS CG

Sine
Stanford Linear Accelerator
J/N 49995.51972
TEM / TPS



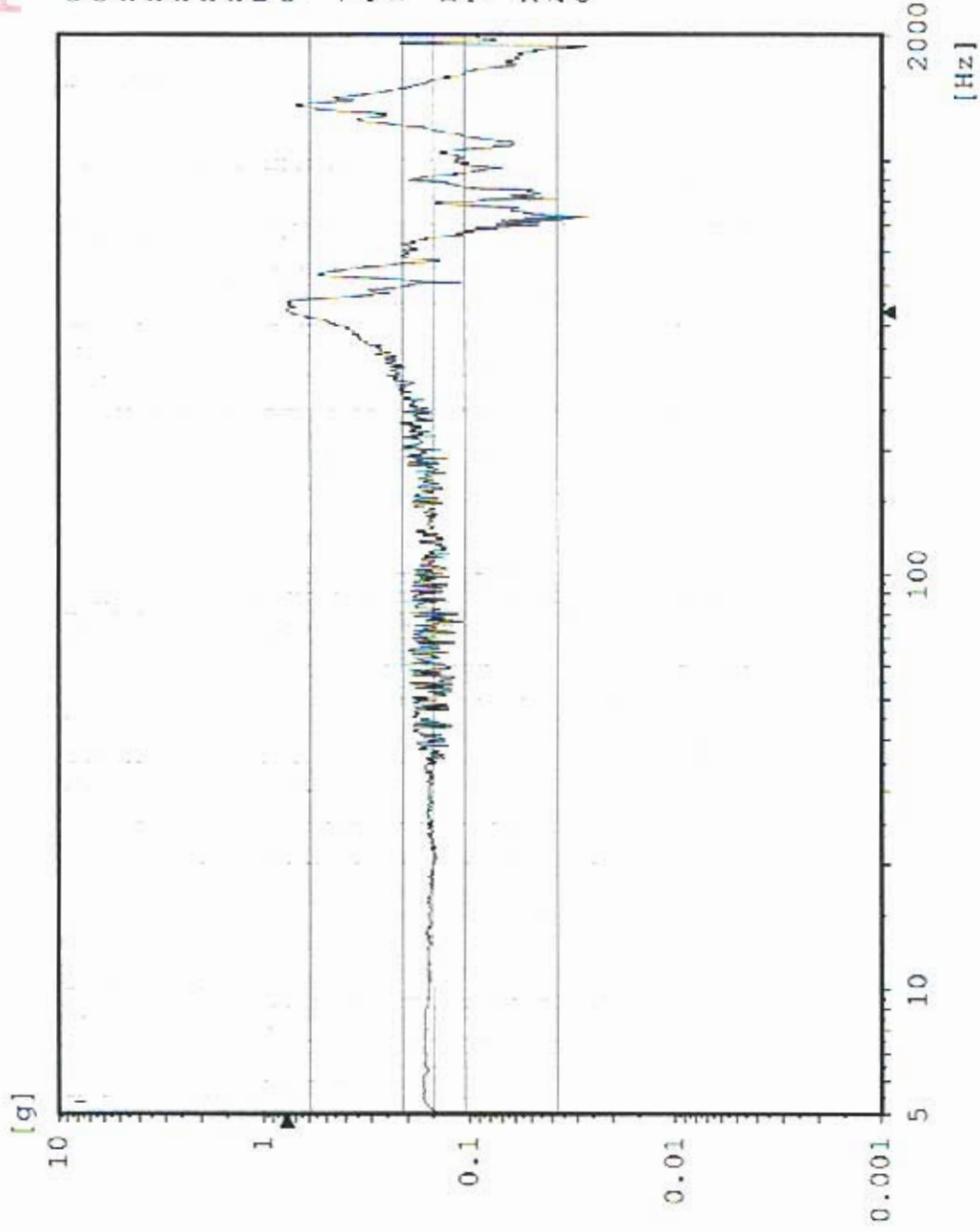
PRELIMINARY DATA

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: 9
Contr.strat.: Closed loop

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

Date: 05-11-05
Time: 16:55:29

X - axis Post Random
Acceptance Unit
GLAT 1834



CY1 Y-Axis Control

Sine

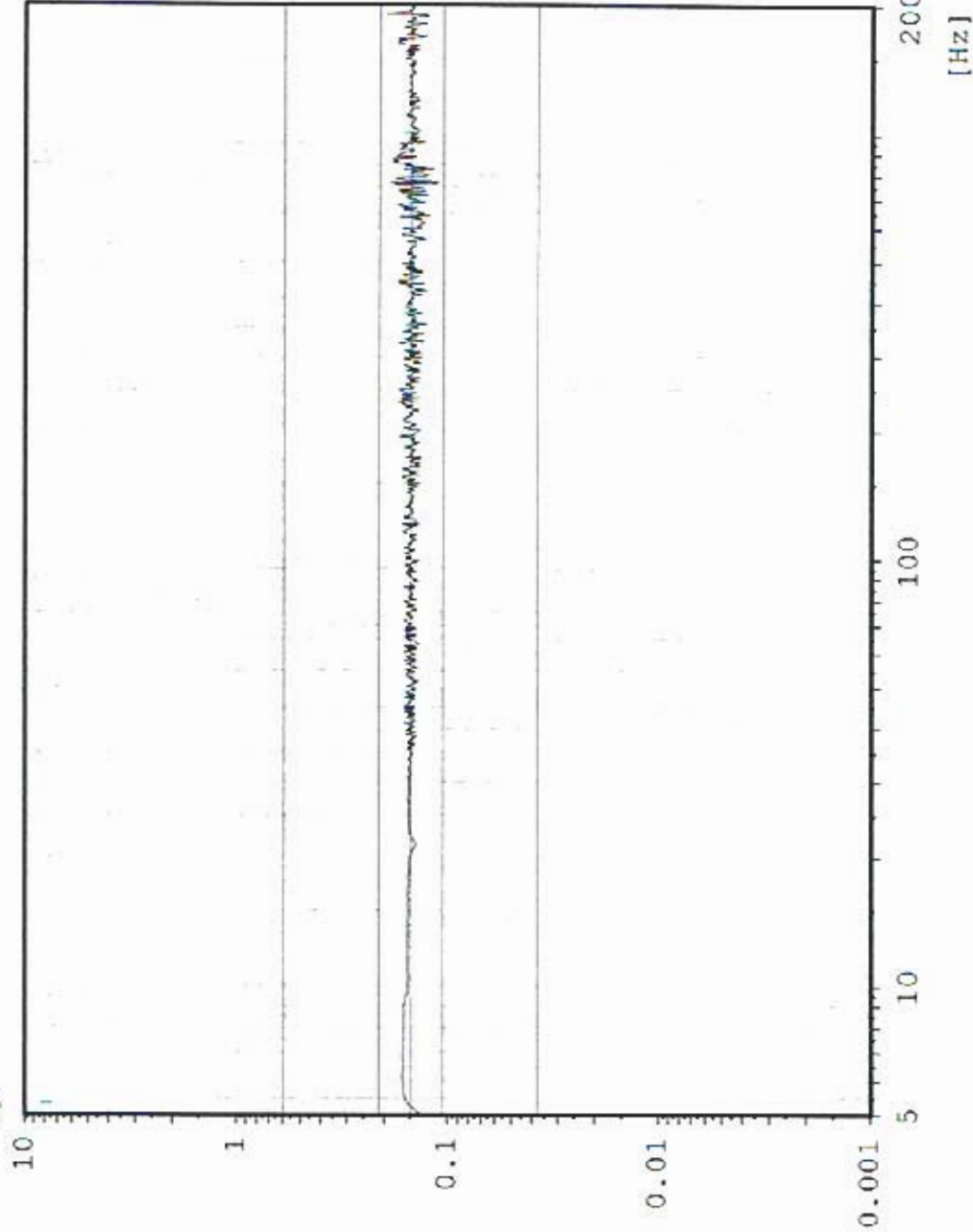
Stanford Linear Accelerator

J/N 49995.51972

TEM / TPS



PRELIMINARY DATA



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: 05-11-05
Time: 17:14:48

Y - axis Pre Random
Acceptance Unit
GLAT 1834

AY3 TPS Top Center

Sine
Stanford Linear Accelerator
J/N 49995.51972
TEM / TPS



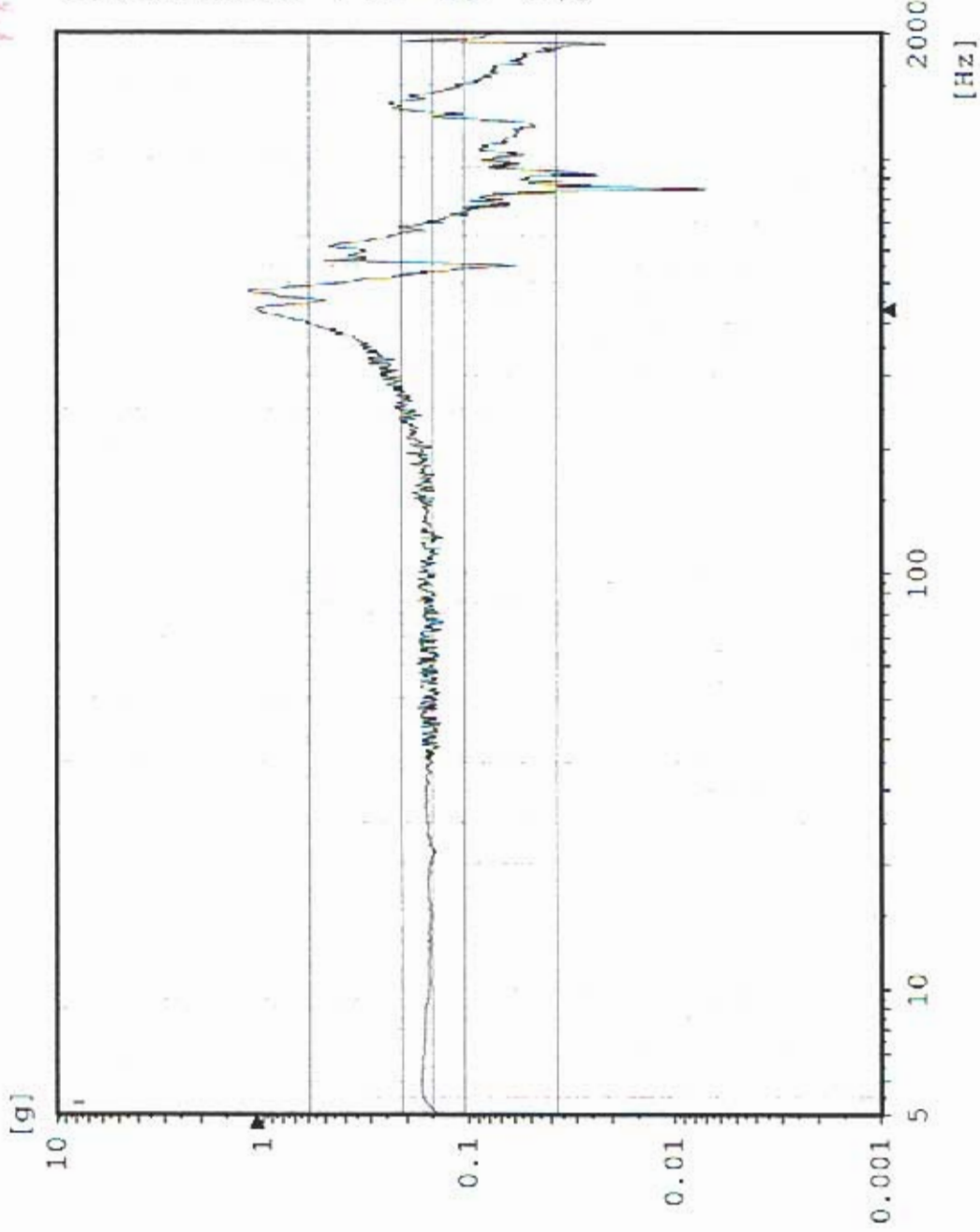
PRELIMINARY DATA

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: 05-11-05
Time: 17:14:48

Y - axis Pre Random
Acceptance Unit
GLAT 1834



Sine AY4 TPS Top Edge

Stanford Linear Accelerator
J/N 49995.51972
TEM / TPS



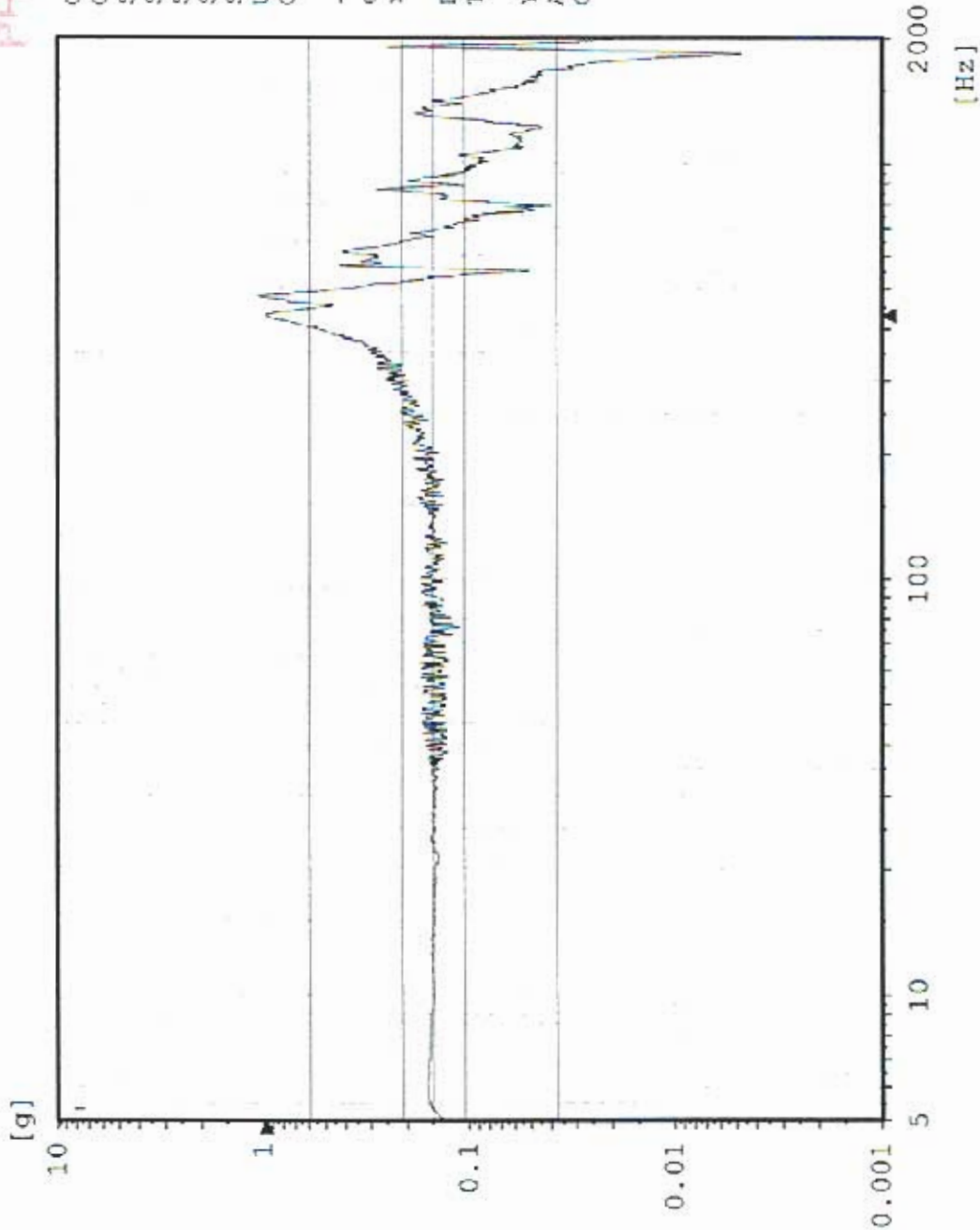
PRELIMINARY DATA

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: 05-11-05
 Time: 17:14:48

Y - axis Pre Random
 Acceptance Unit
 GLAT 1834



Sine AY1 TEM Center Edge

Stanford Linear Accelerator

J/N 49995.51972

TEM / TPS



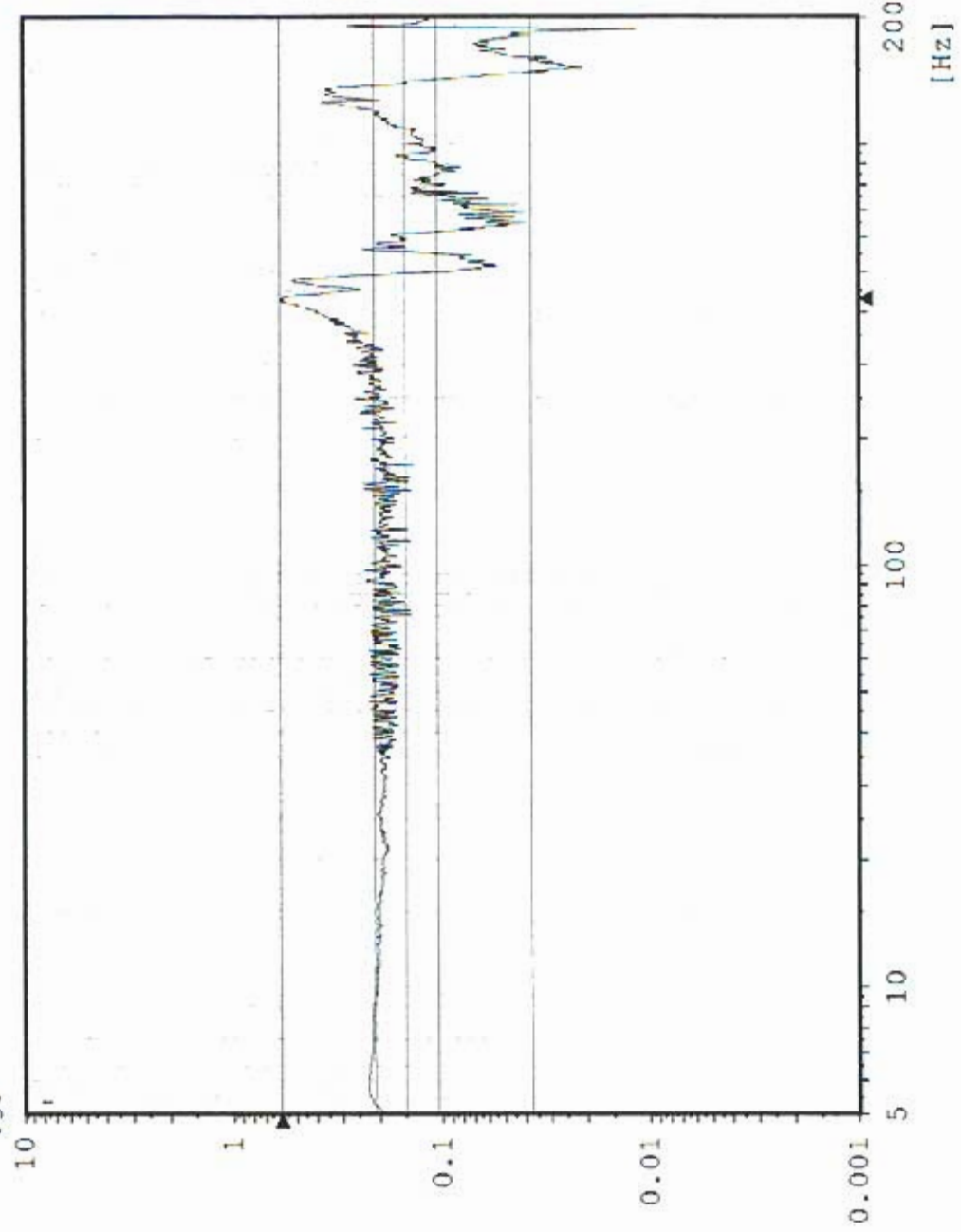
PRELIMINARY DATA

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: 05-11-05
 Time: 17:14:48

Y - axis Pre Random
 Acceptance Unit
 GLAT 1834



Sine AY2 TPS CG

Stanford Linear Accelerator
J/N 49995.51972
TEM / TPS



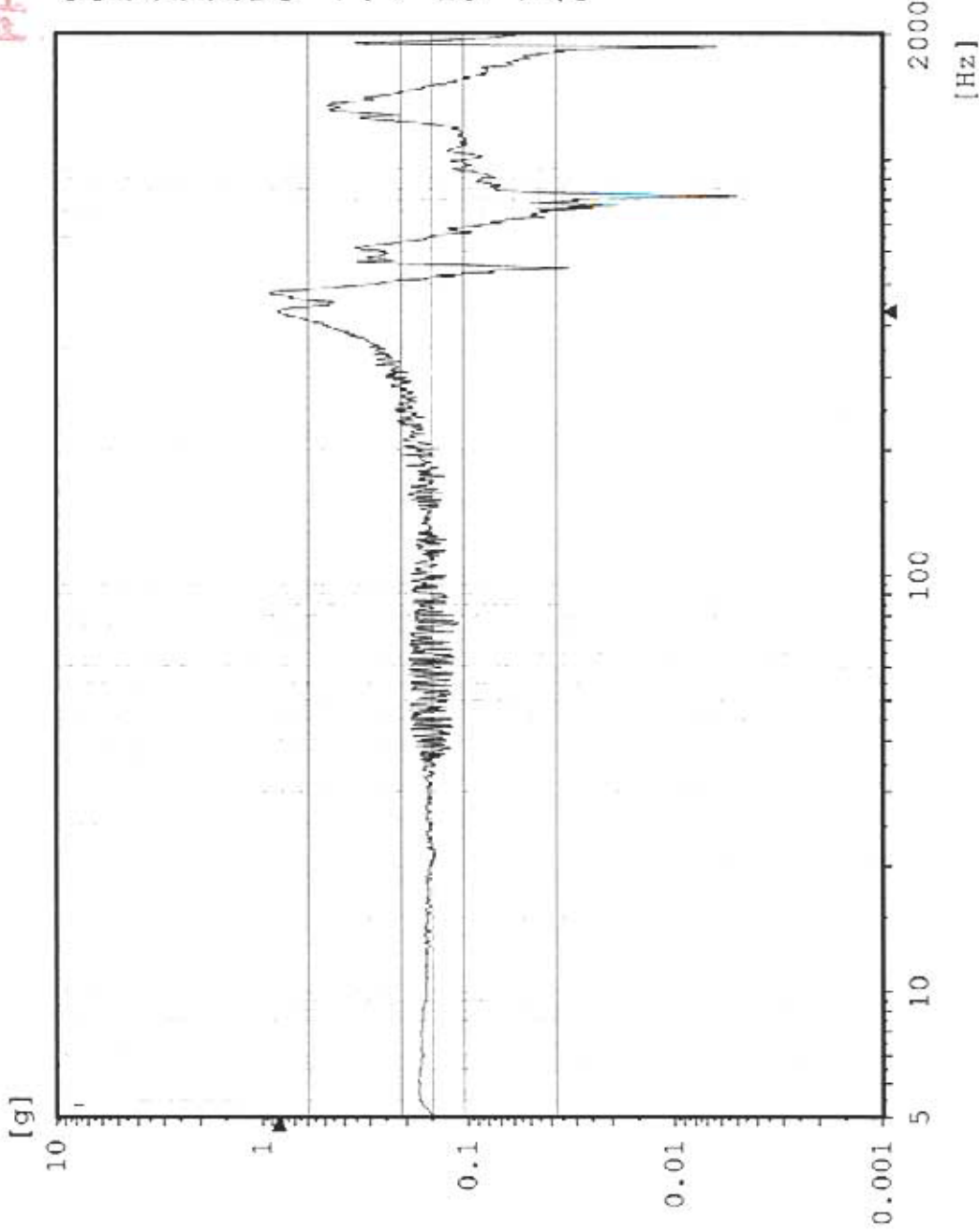
PRELIMINARY DATA

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: 05-11-05
Time: 17:14:48

Y - axis Pre Random
Acceptance Unit
GLAT 1834



CY1 Y-Axis Control

Random
Stanford Linear Accelerator
J/N 49995.51972
TEM & TPS



PRELIMINARY DATA

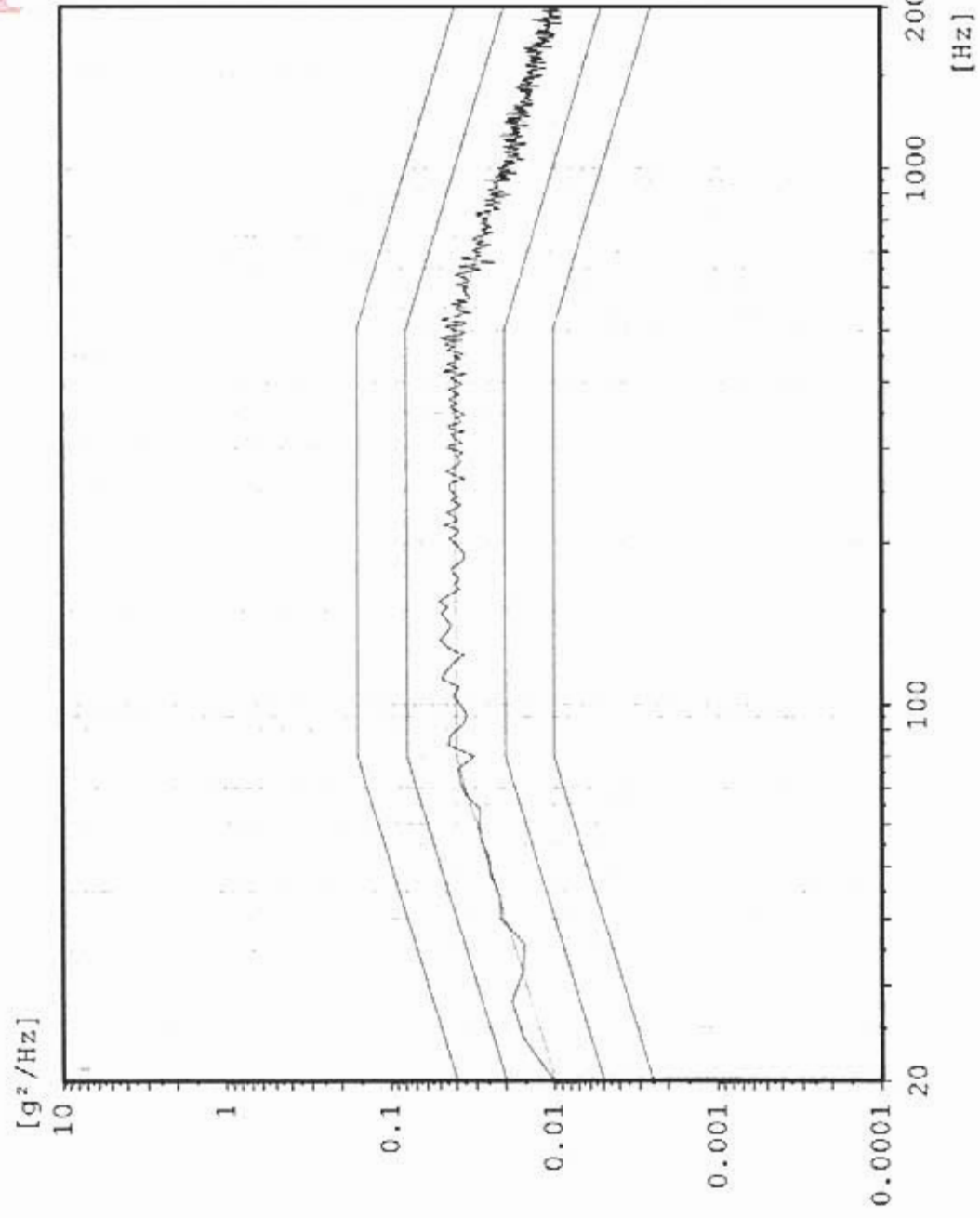
Chan.no: 1
Chan.type: C
DOF: 126
Level: 0.0 dB
Resolution: 4 Hz
Unit: g²/Hz
RMS (act.): 6.834 g
RMS (req.): 6.787 g
Contr.strat.: Closed loop

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

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

Date: 05-11-05
Time: 17:22:55

Y - Axis
Acceptance Unit
GLAT 1834



Max: 416 Hz 1.852 g²/Hz

Random AY3 TPS Top Center

Stanford Linear Accelerator
J/N 49995.51972
TEM & TPS



PRELIMINARY DATA

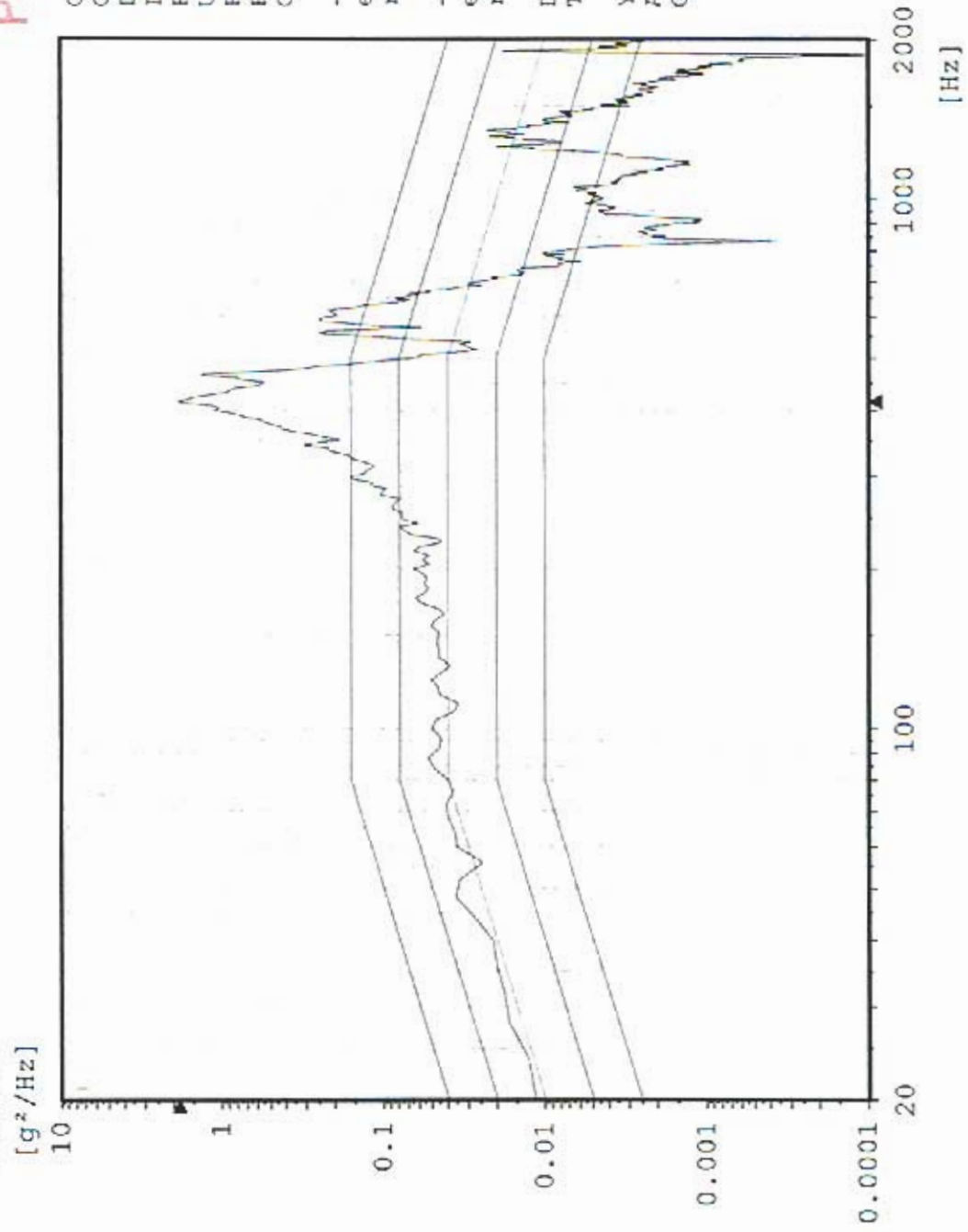
Chan.no: 2
Chan.type: M
DOF: 100
Level: 0.0 dB
Resolution: 4 Hz
Unit: g²/Hz
RMS (act.): 12.74 g
RMS (req.): 6.787 g
Contr.strat.: Closed loop

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

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

Date: 05-11-05
Time: 17:22:55

Y - Axis
Acceptance Unit
GLAT 1834



Max: 416 Hz 1.523 g²/Hz

AY4 TPS Top Edge

Random

Stanford Linear Accelerator
J/N 49995.51972
TEM & TPS



PRELIMINARY DATA

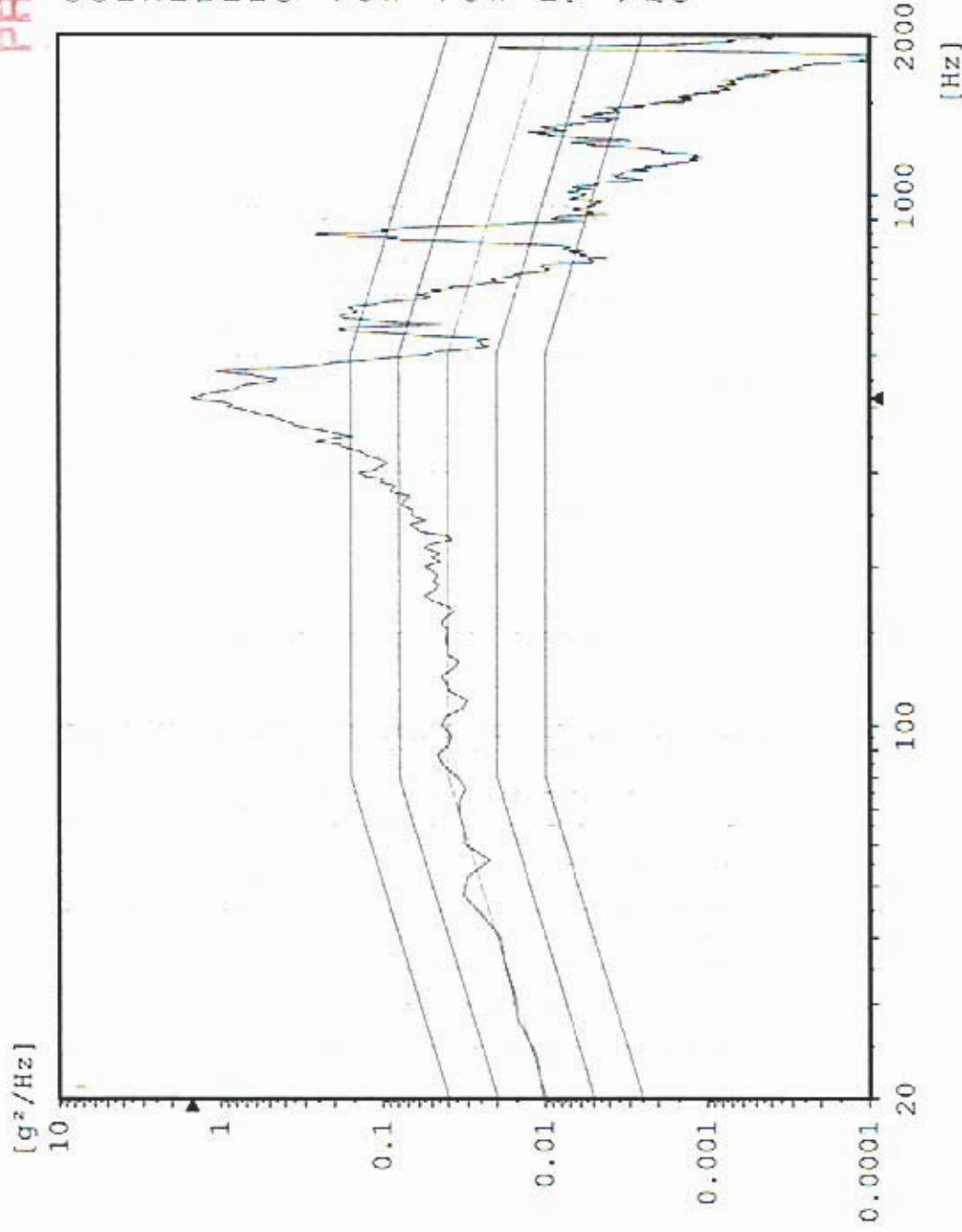
Chan.no: 3
 Chan.type: M
 DOF: 100
 Level: 0.0 dB
 Resolution: 4 Hz
 Unit: g²/Hz
 RMS (act.): 11.79 g
 RMS (req.): 6.787 g
 Contr.strat.: Closed loop

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

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

Date: 05-11-05
 Time: 17:22:55

Y - Axis
 Acceptance Unit
 GLAT 1834



Max: 416 Hz 0.5501 g²/Hz

Random AY1 TEM Center Edge

Stanford Linear Accelerator
J/N 49995.51972
TEM & TPS



PRELIMINARY DATA

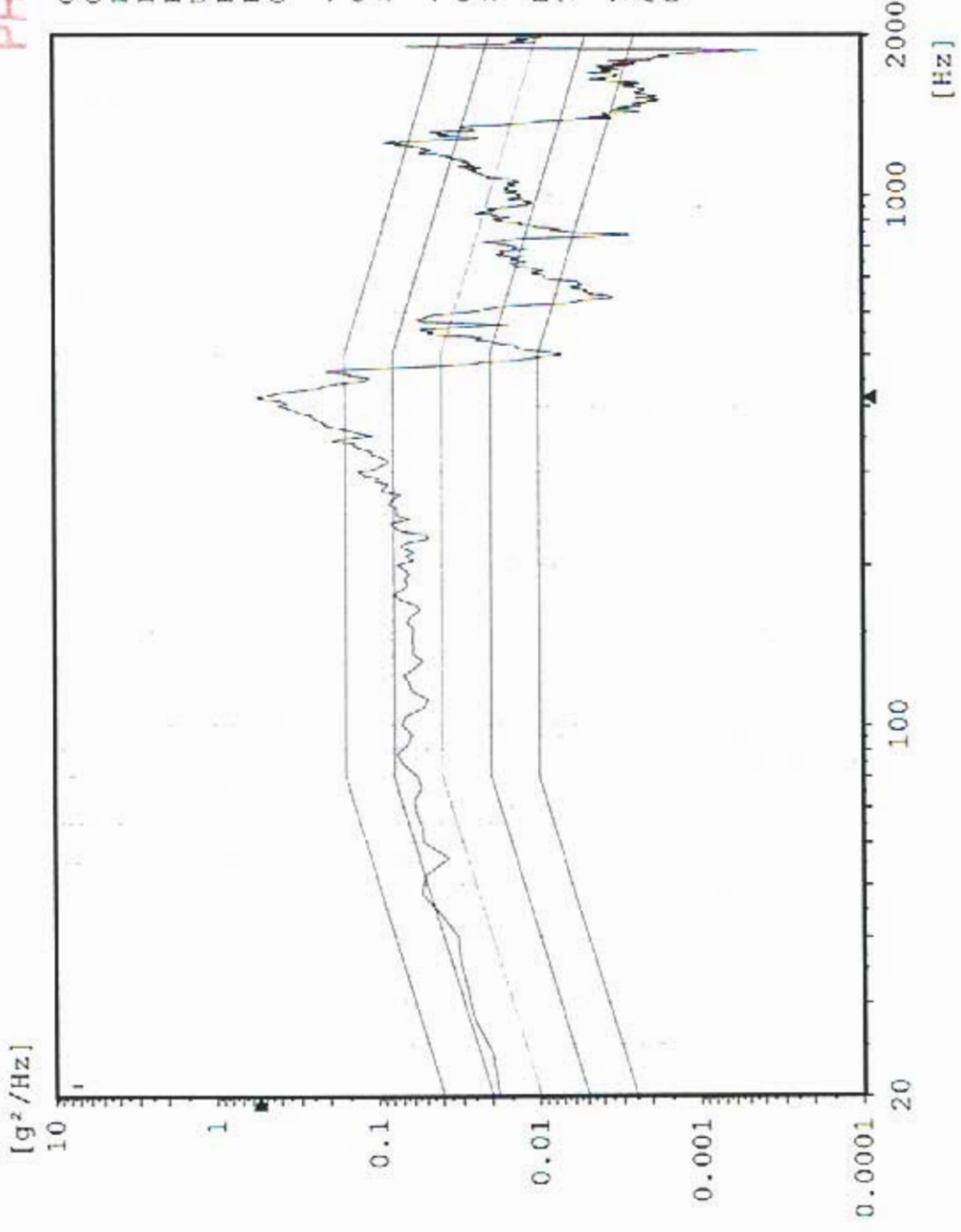
Chan.no: 5
 Chan.type: M
 DOF: 100
 Level: 0.0 dB
 Resolution: 4 Hz
 Unit: g²/Hz
 RMS (act.): 8.916 g
 RMS (req.): 6.787 g
 Contr.strat.: Closed loop

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

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

Date: 05-11-05
 Time: 17:22:55

Y - Axis
 Acceptance Unit
 GLAT 1834



Max: 416 Hz 1.156 g²/Hz

Random AY2 TPS CG

Stanford Linear Accelerator
J/N 49995.51972
TEM & TPS



PRELIMINARY DATA

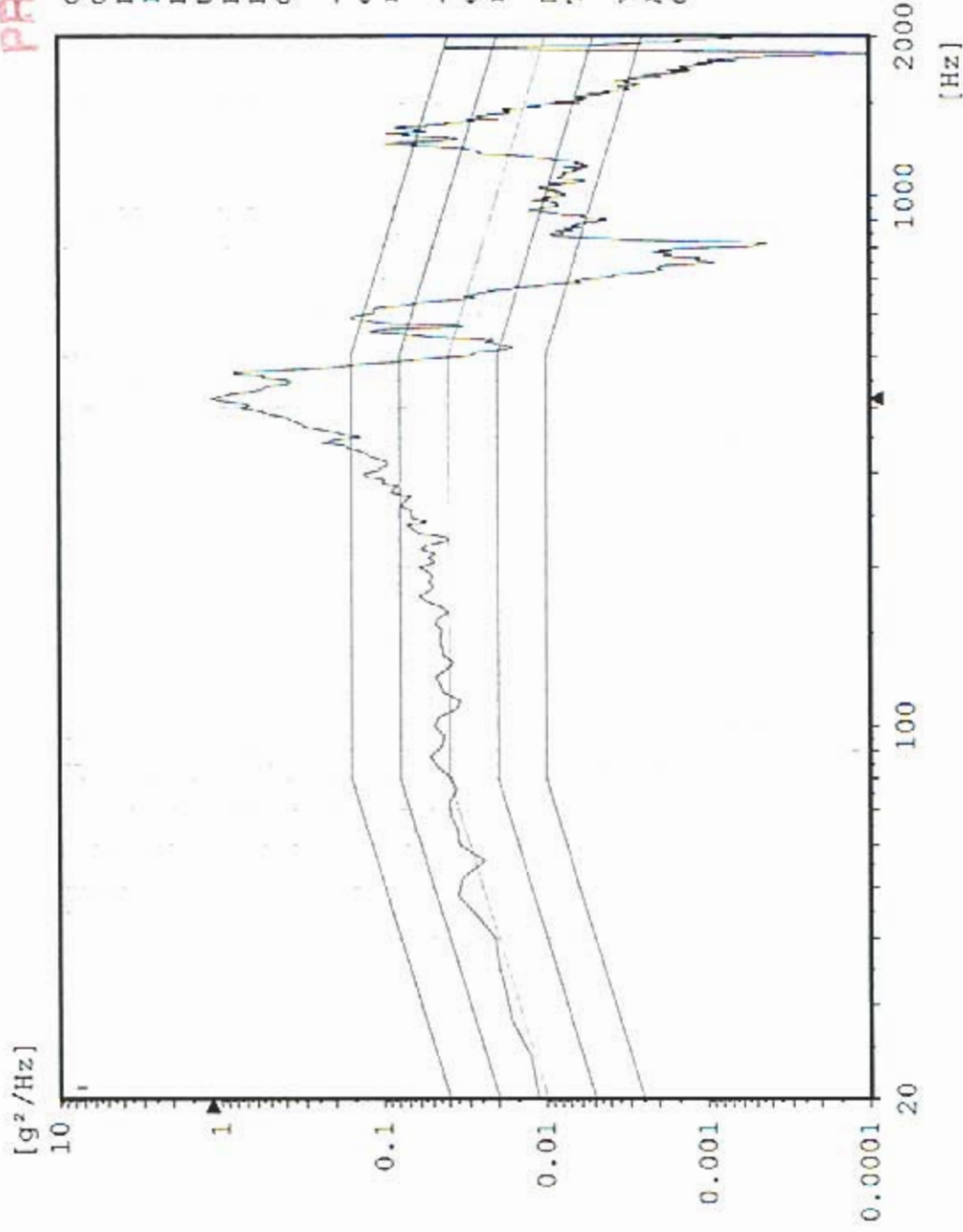
Chan.no: 10
Chan.type: M
DOF: 100
Level: 0.0 dB
Resolution: 4 Hz
Unit: g²/Hz
RMS (act.): 11 g
RMS (req.): 6.787 g
Contr.strat.: Closed loop

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

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

Date: 05-11-05
Time: 17:22:55

Y - Axis
Acceptance Unit
GLAT 1834



CY1 Y-Axis Control

Sine
Stanford Linear Accelerator
J/N 49995.51972
TEM / TPS



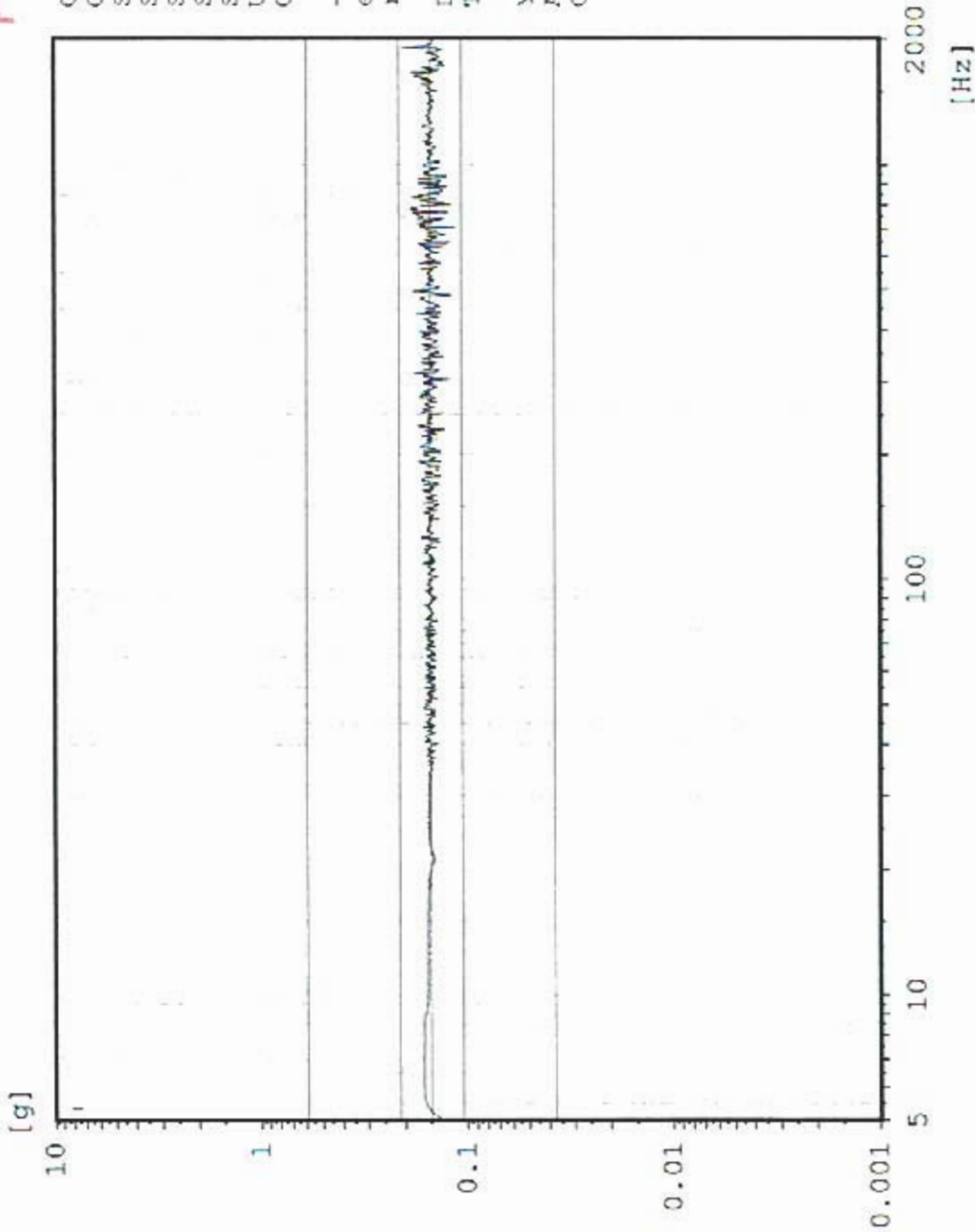
PRELIMINARY DATA

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: 05-11-05
Time: 17:32:05

Y - axis Post Random
Acceptance Unit
GLAT 1834

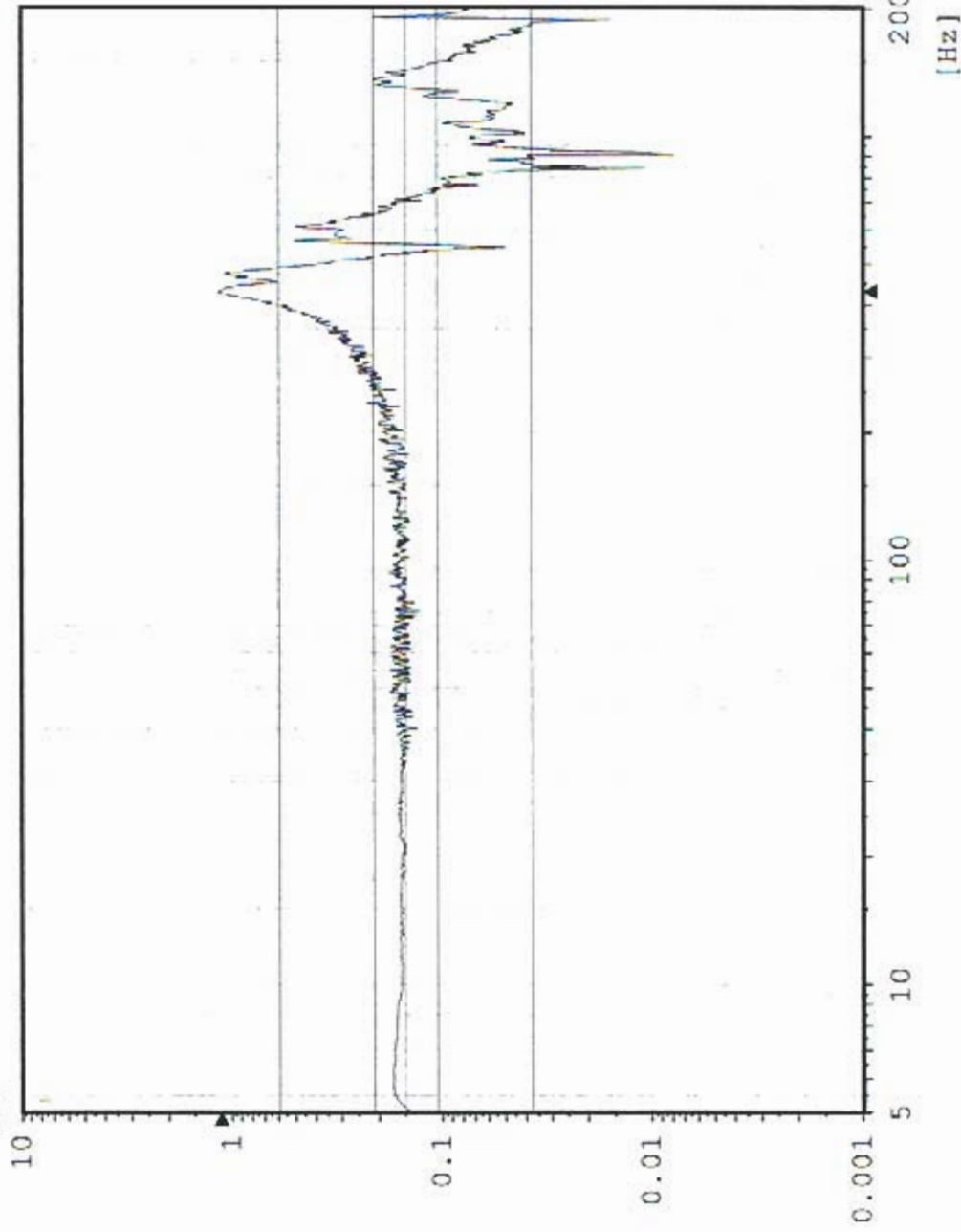


AY3 TPS Top Center

Sine
Stanford Linear Accelerator
J/N 49995.51972
TEM / TPS



PRELIMINARY DATA



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: 05-11-05
 Time: 17:32:05

Y - axis Post Random
 Acceptance Unit
 GLAT 1834

Sine AY4 TPS Top Edge

Stanford Linear Accelerator
J/N 49995.51972
TEM / TPS



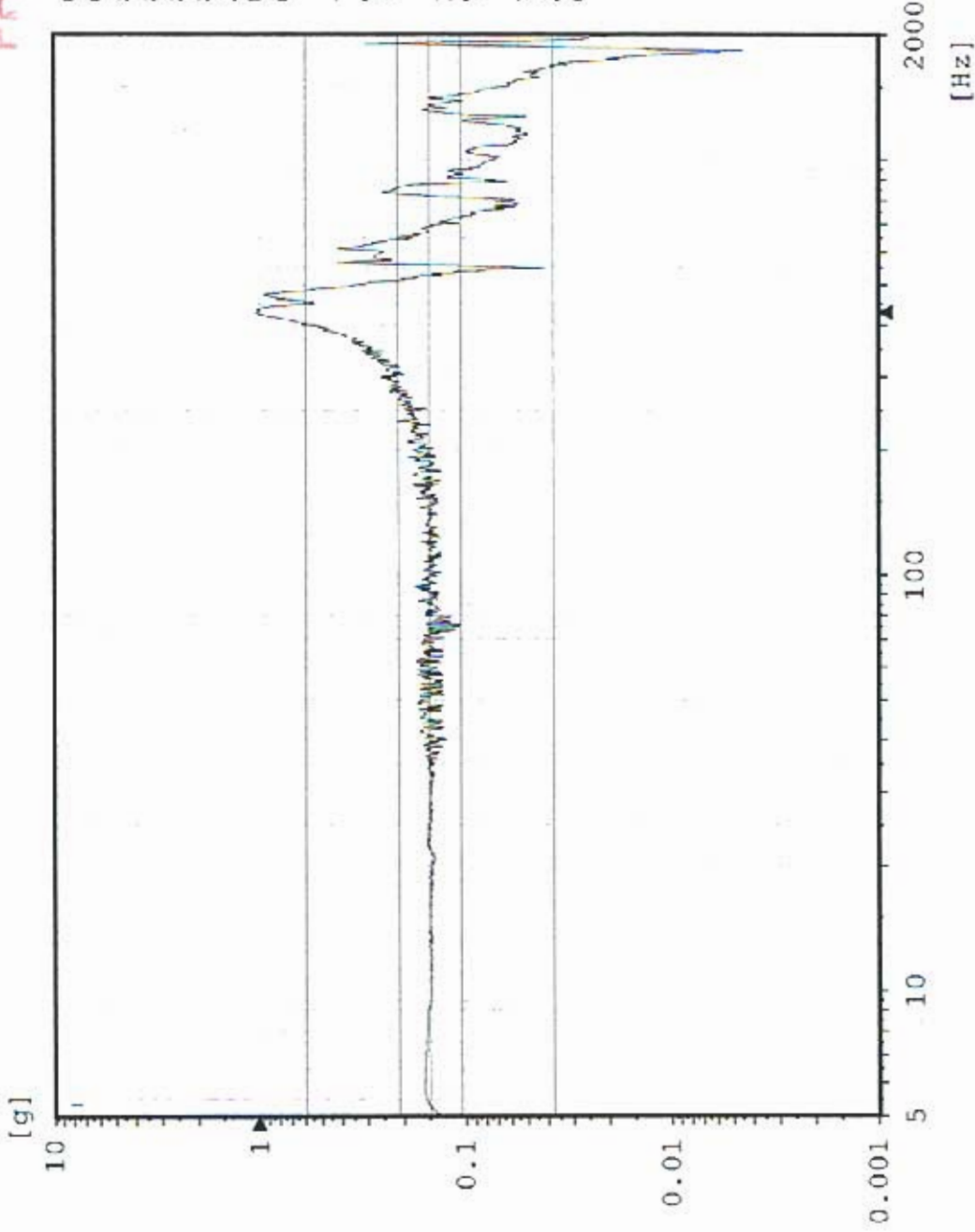
PRELIMINARY DATA

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: 05-11-05
 Time: 17:32:05

Y - axis Post Random
 Acceptance Unit
 GLAT 1834



Sine AY1 TEM Center Edge

Stanford Linear Accelerator
J/N 49995.51972
TEM / TPS



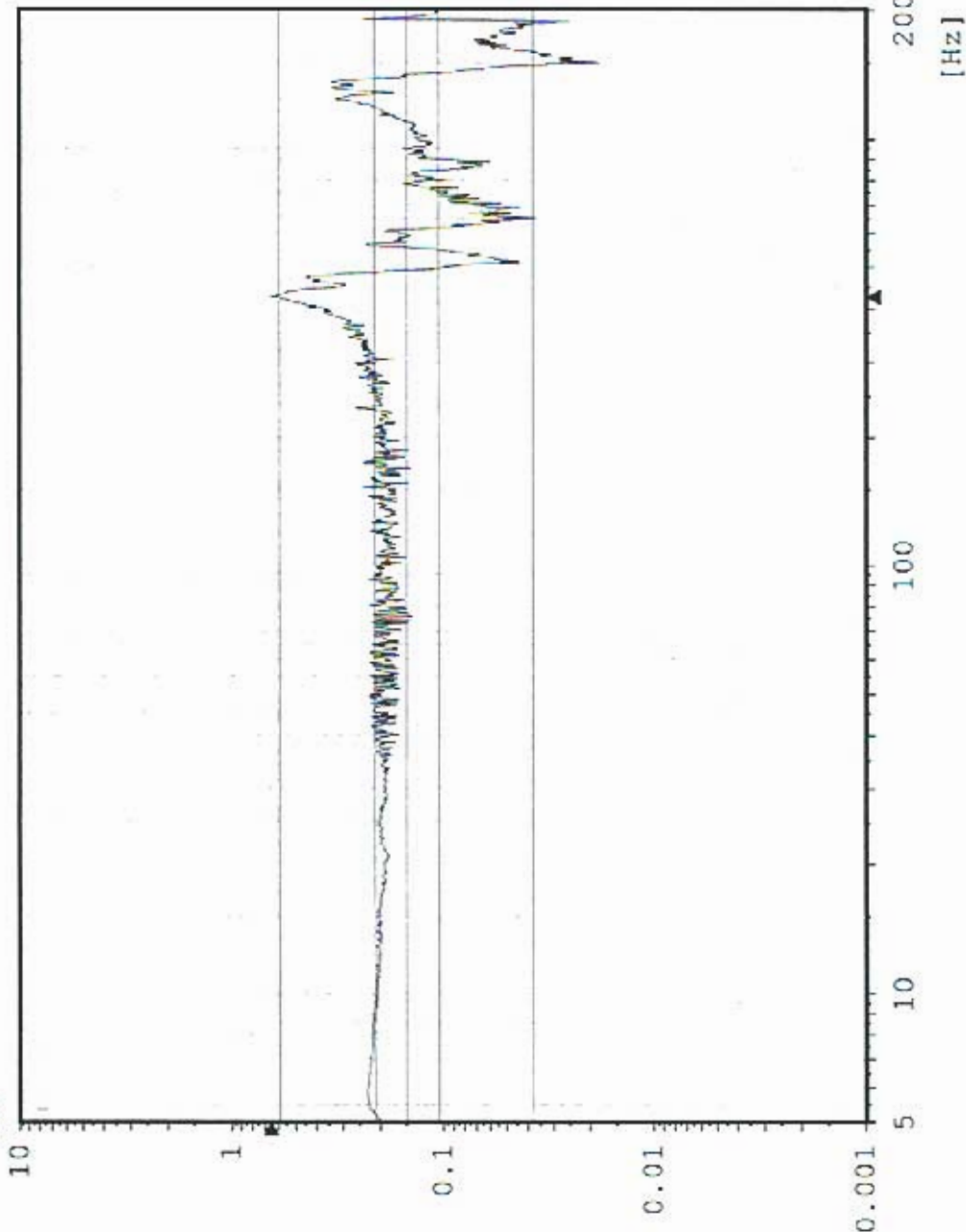
PRELIMINARY DATA

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: 05-11-05
 Time: 17:32:05

Y - axis Post Random
 Acceptance Unit
 GLAT 1834

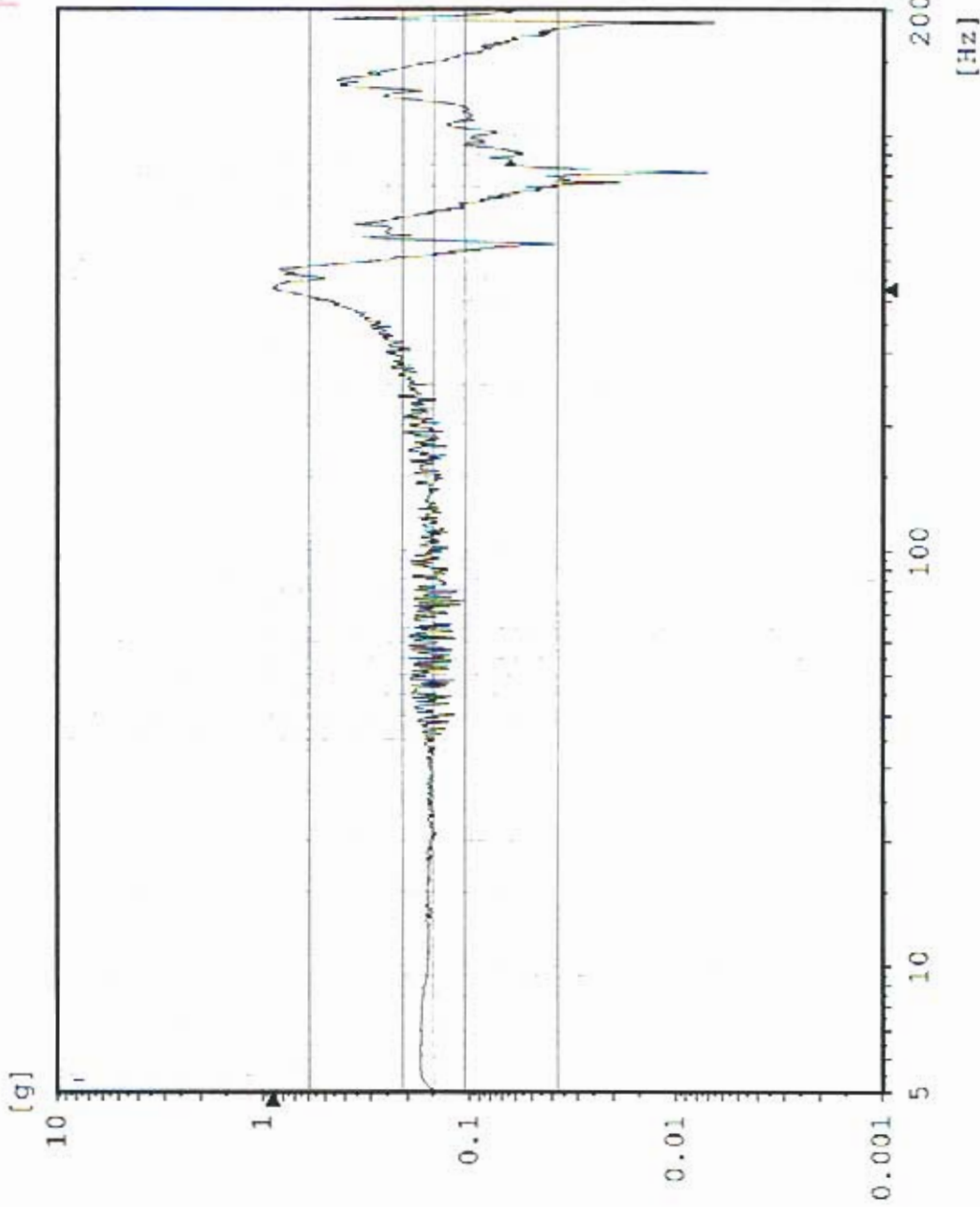


AY2 TPS CG

Sine
Stanford Linear Accelerator
J/N 49995.51972
TEM / TPS



PRELIMINARY DATA



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: 05-11-05
 Time: 17:32:05

Y - axis Post Random
 Acceptance Unit
 GLAT 1834

Sine CZ1 Z-Axis Control

Stanford Linear Accelerator
J/N 49995.51972
TEM / TPS



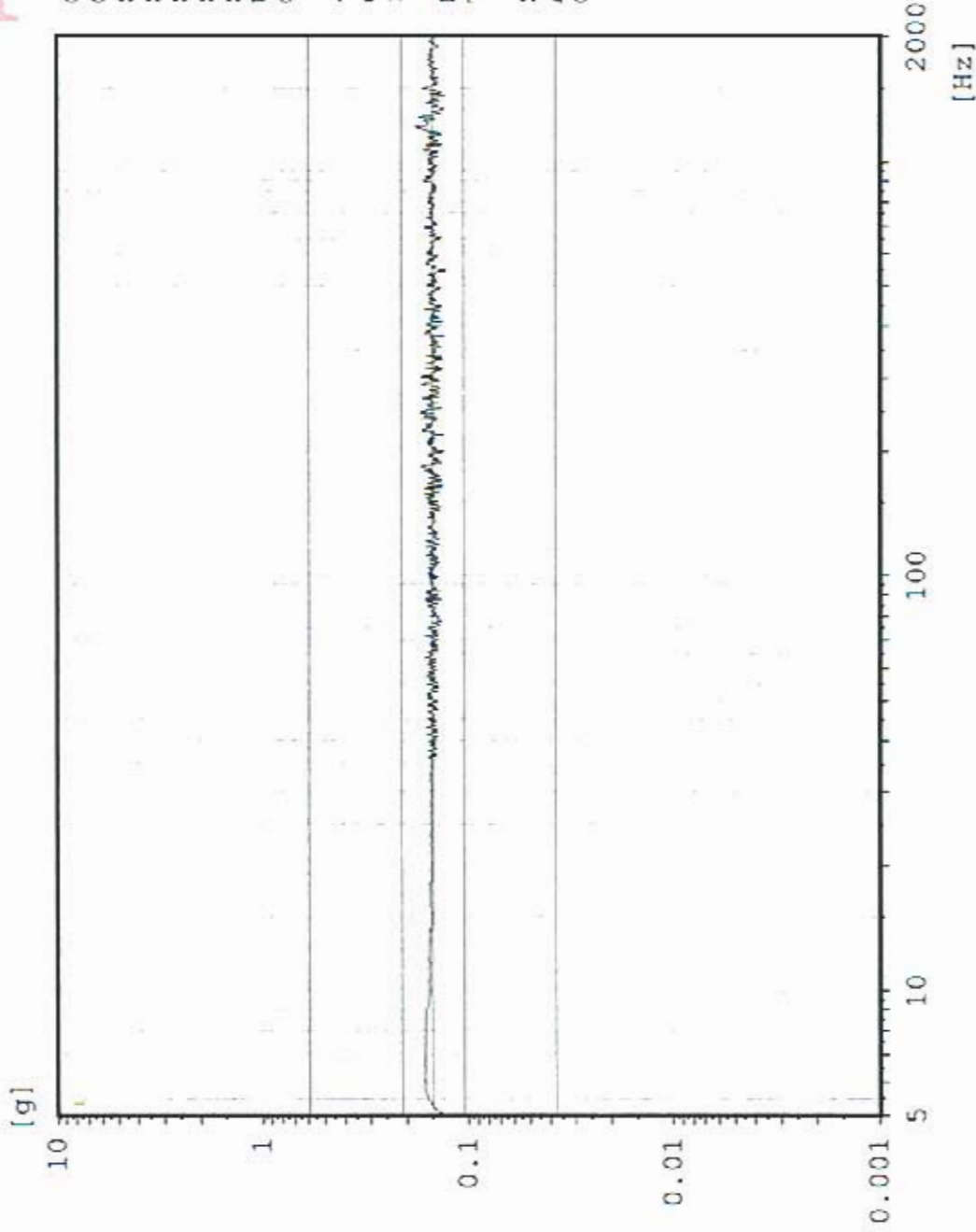
PRELIMINARY DATA

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: 05-11-05
Time: 21:25:29

Z - axis Pre Random
Acceptance Unit
GLAT 1834



AZ4 TPS Boss 2

Sine
Stanford Linear Accelerator
J/N 49995.51972
TEM / TPS



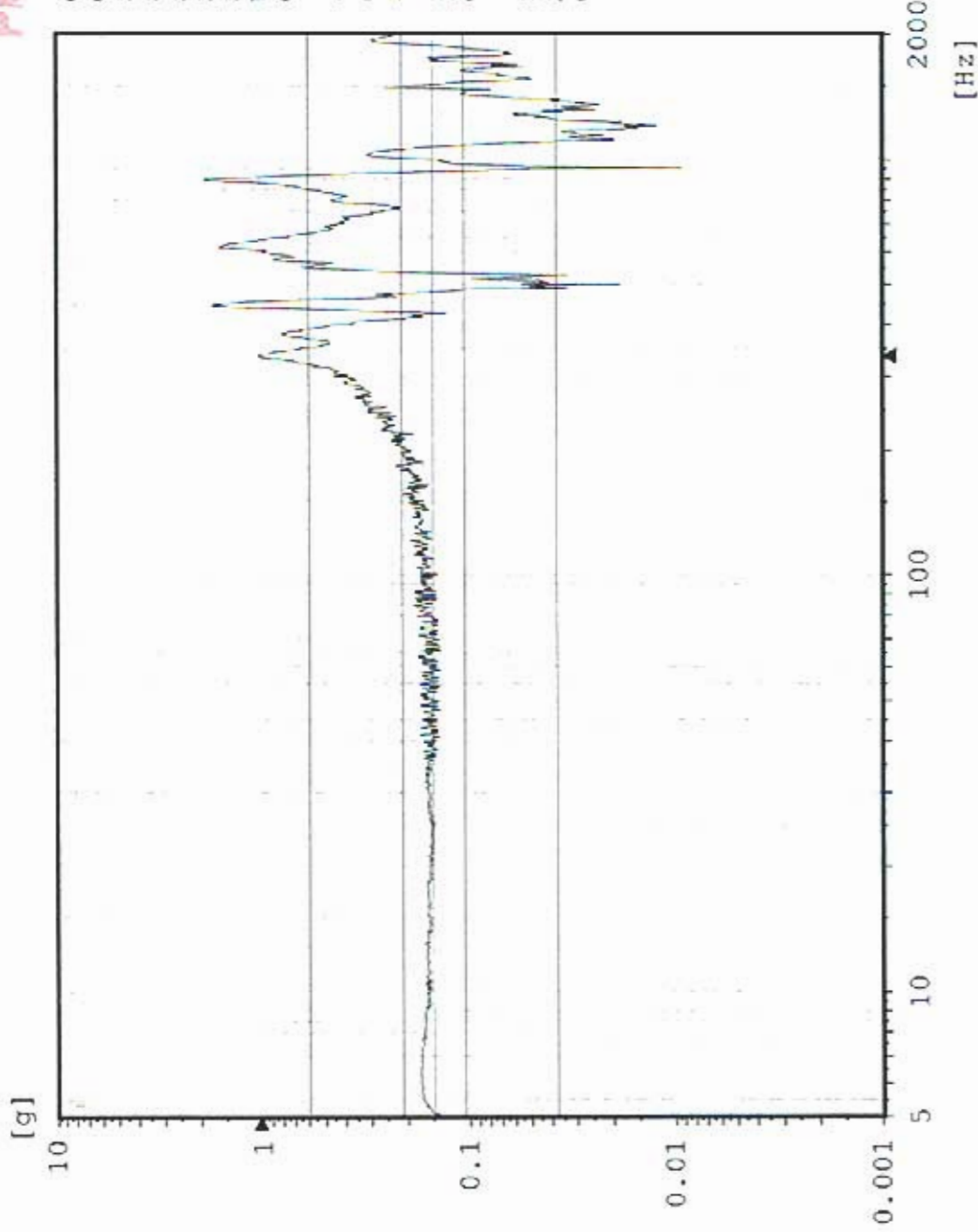
PRELIMINARY DATA

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: 05-11-05
Time: 21:25:29

Z - axis Pre Random
Acceptance Unit
GLAT 1834



AZ3 TPS Boss 1

Sine
Stanford Linear Accelerator
J/N 49995.51972
TEM / TPS



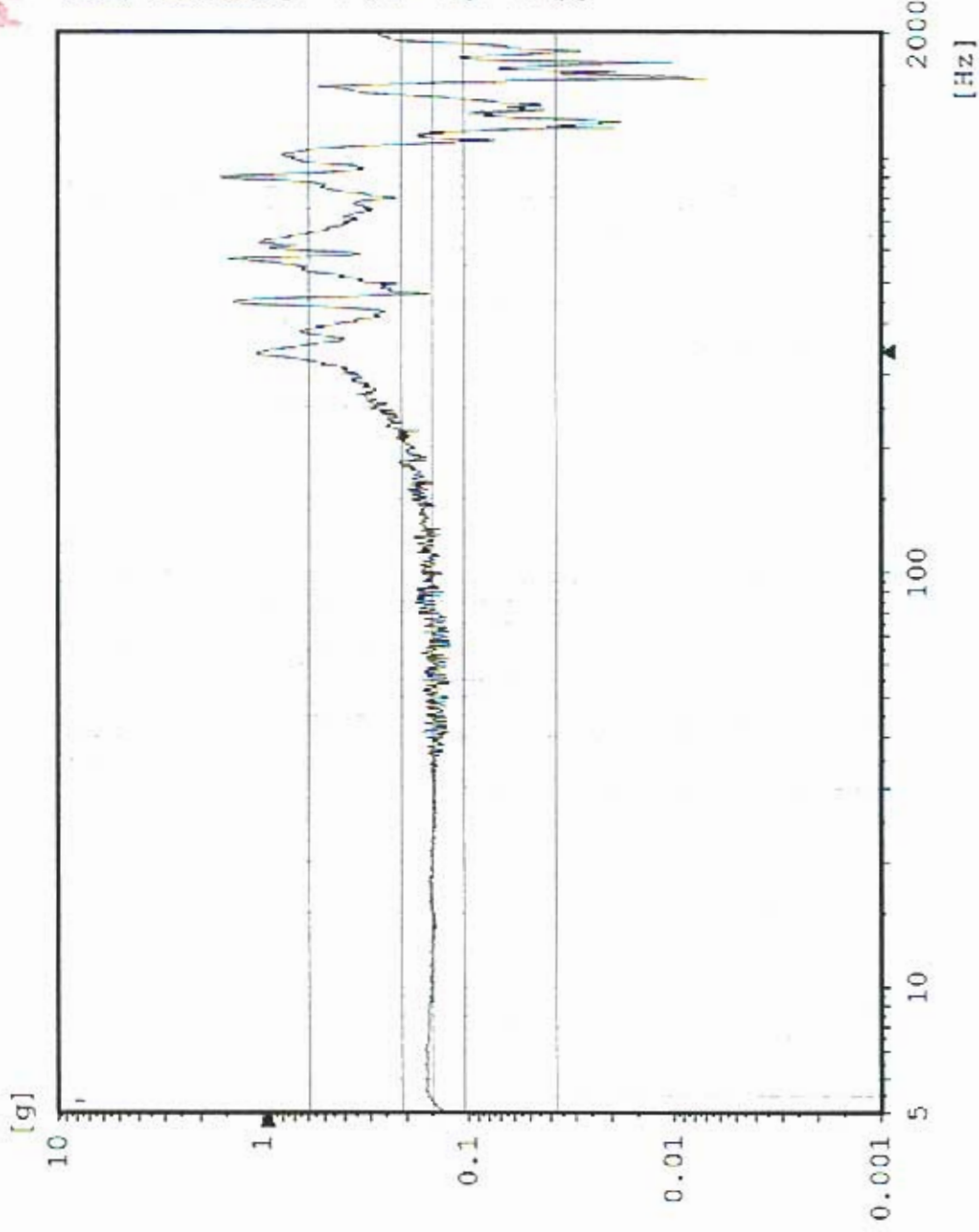
PRELIMINARY DATA

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: 05-11-05
Time: 21:25:29

Z - axis Pre Random
Acceptance Unit
GLAT 1834



Sine AZ5 TEM Bottom Edge

Stanford Linear Accelerator

J/N 49995.51972

TEM / TPS



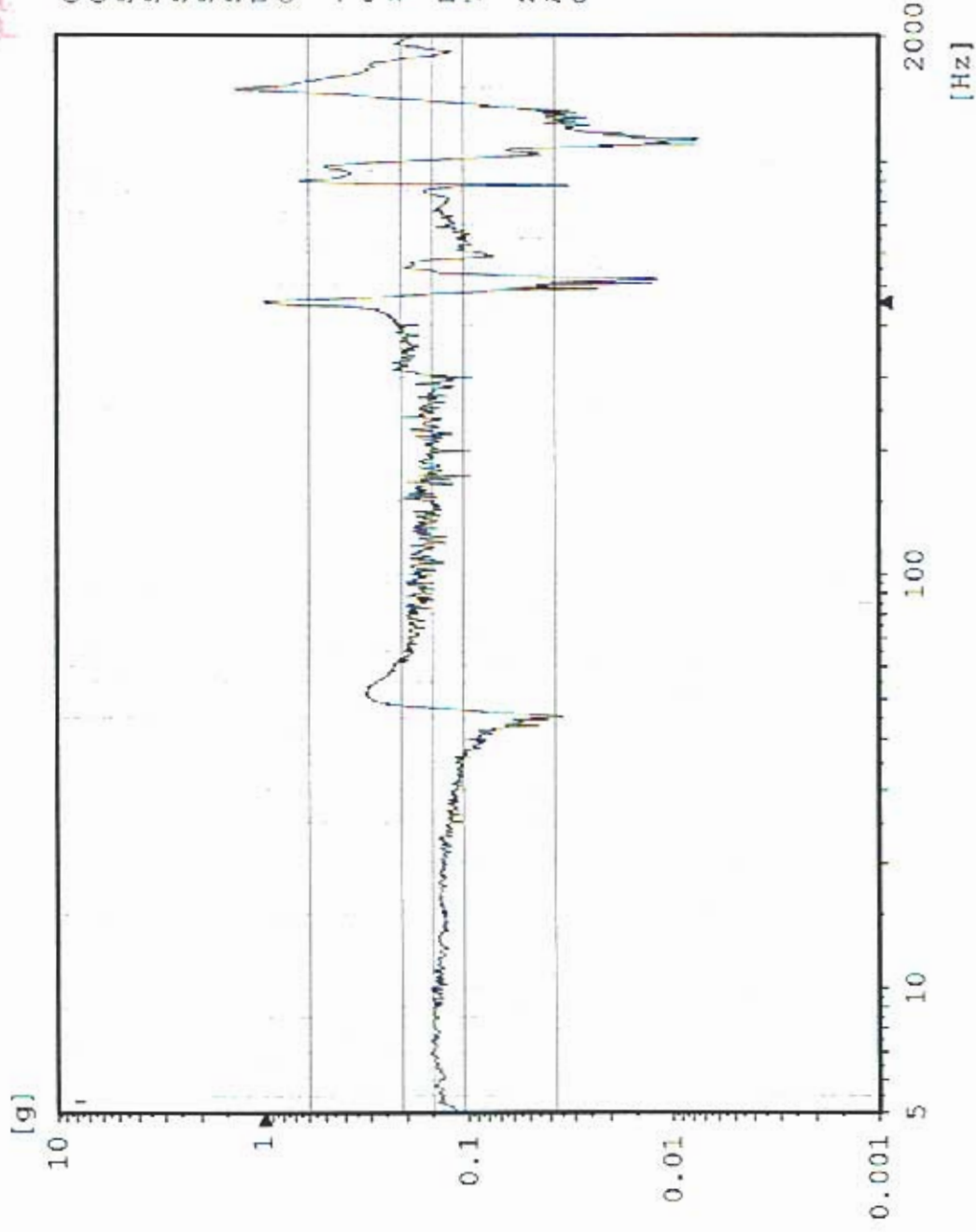
PRELIMINARY DATA

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: 05-11-05
 Time: 21:25:29

Z - axis Pre Random
 Acceptance Unit
 GLAT 1834



Sine AZ1 TPS Edge Center

Stanford Linear Accelerator

J/N 49995.51972

TEM / TPS



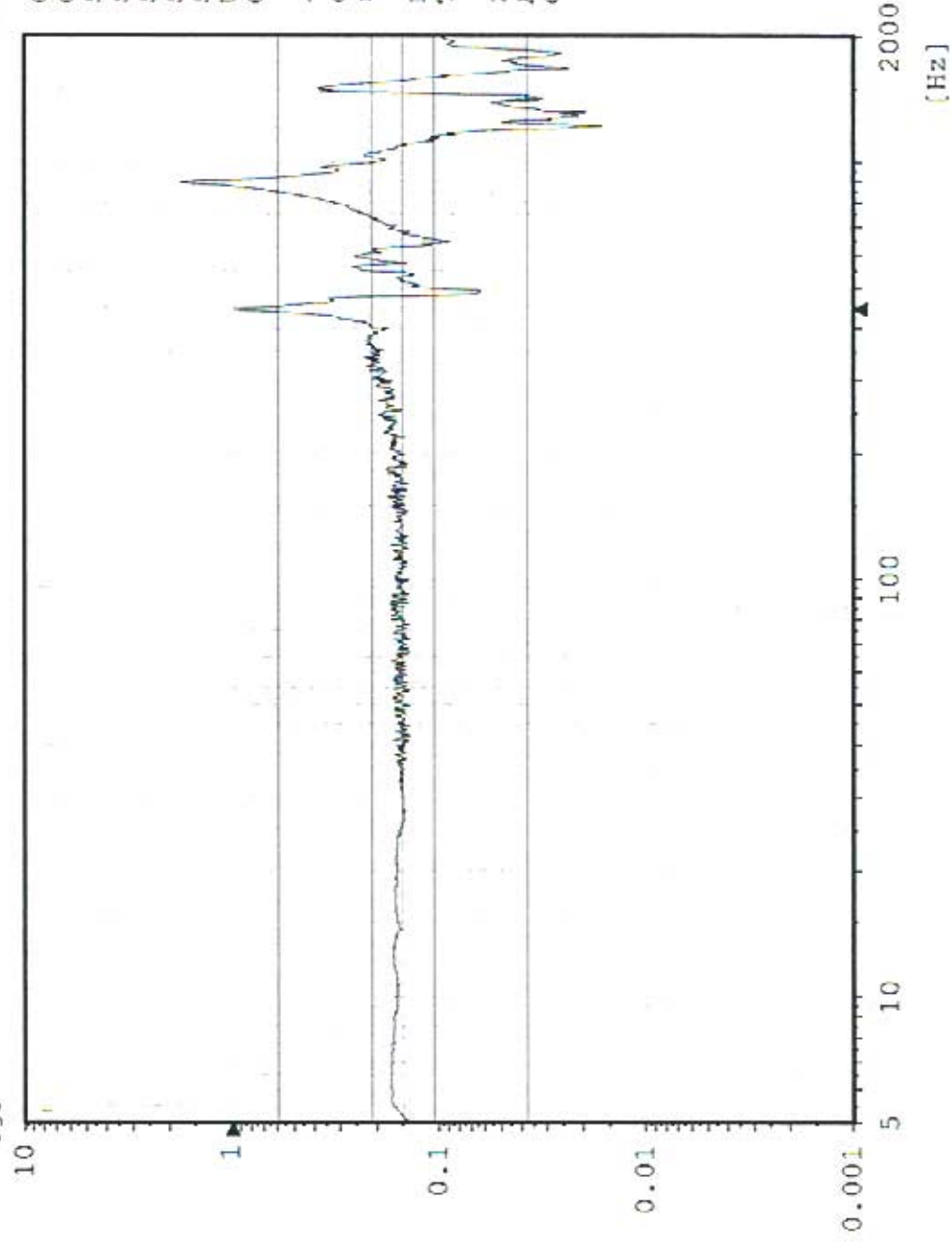
PRELIMINARY DATA

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: 05-11-05
 Time: 21:25:29

Z - axis Pre Random
 Acceptance Unit
 GLAT 1834



Sine AZ6 TEM Bottom Center

Stanford Linear Accelerator

J/N 49995.51972

TEM / TPS



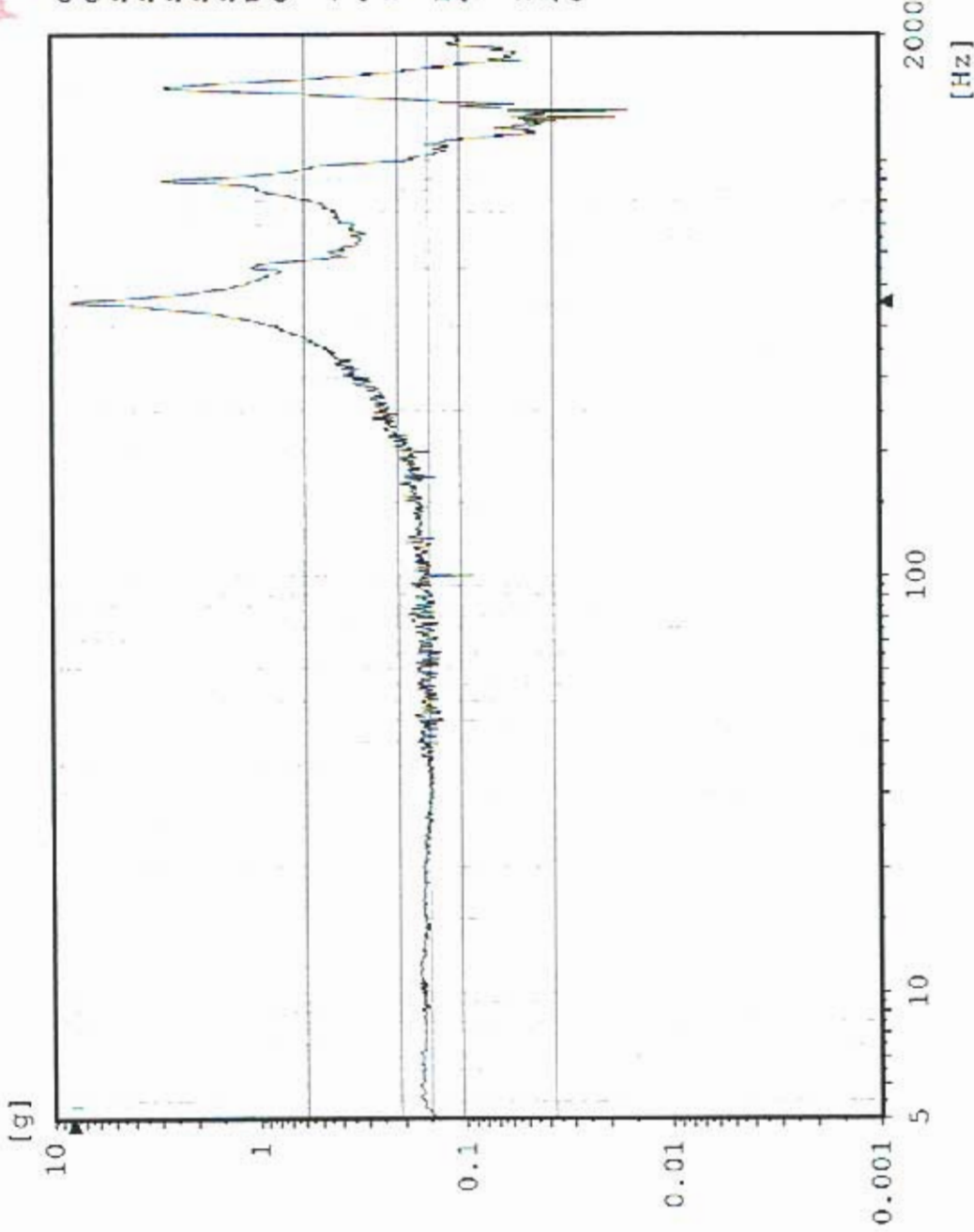
PRELIMINARY DATA

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: 05-11-05
 Time: 21:25:29

Z - axis Pre Random
 Acceptance Unit
 GLAT 1834



Sine AZ2 TPS Corner

Stanford Linear Accelerator
J/N 49995.51972
TEM / TPS



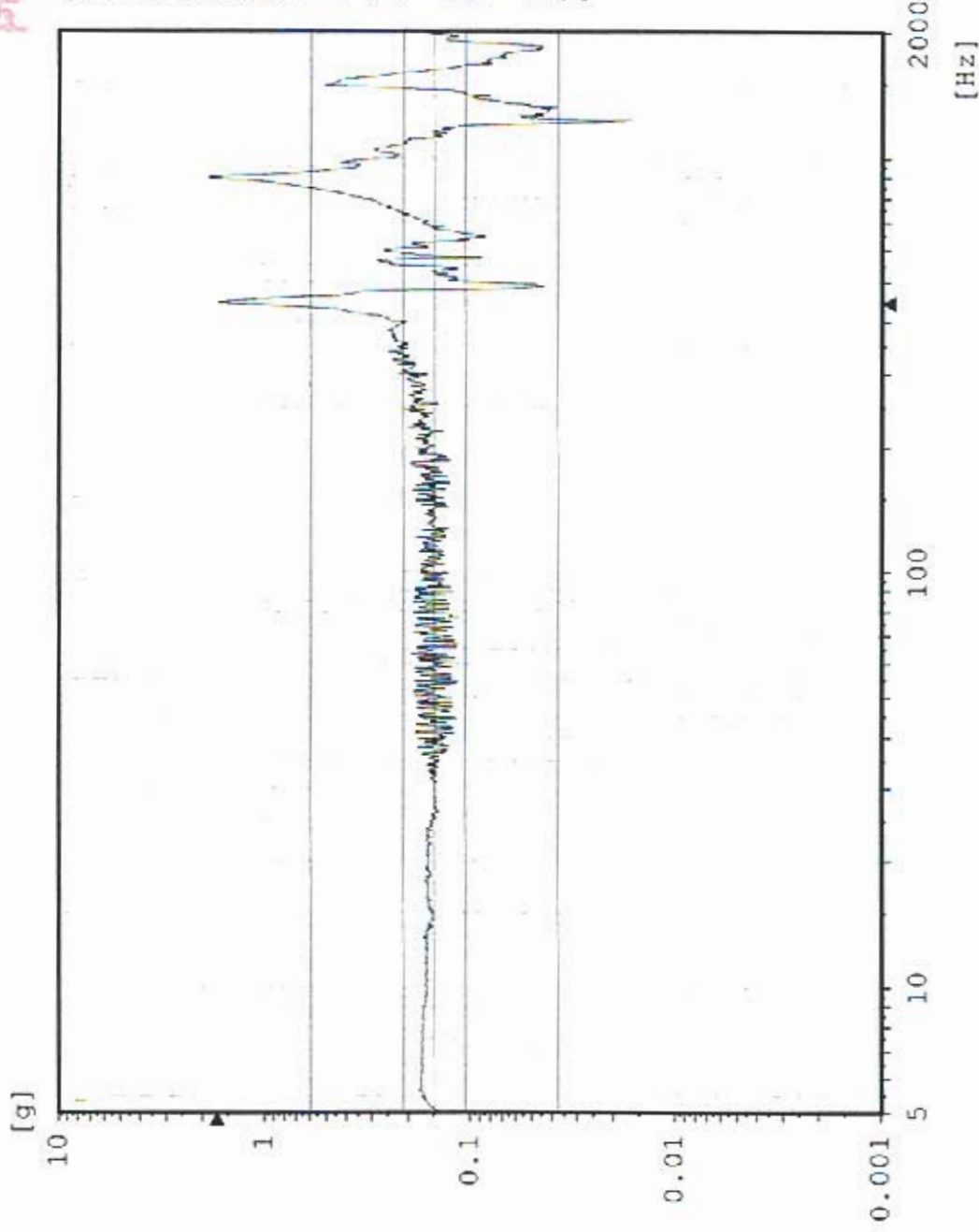
PRELIMINARY DATA

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: 05-11-05
Time: 21:25:29

Z - axis PRE
Acceptance Unit
GLAT 1834



CZ1 Z-Axis Control

Random
Stanford Linear Accelerator
J/N 49995.51972
TEM & TPS



PRELIMINARY DATA

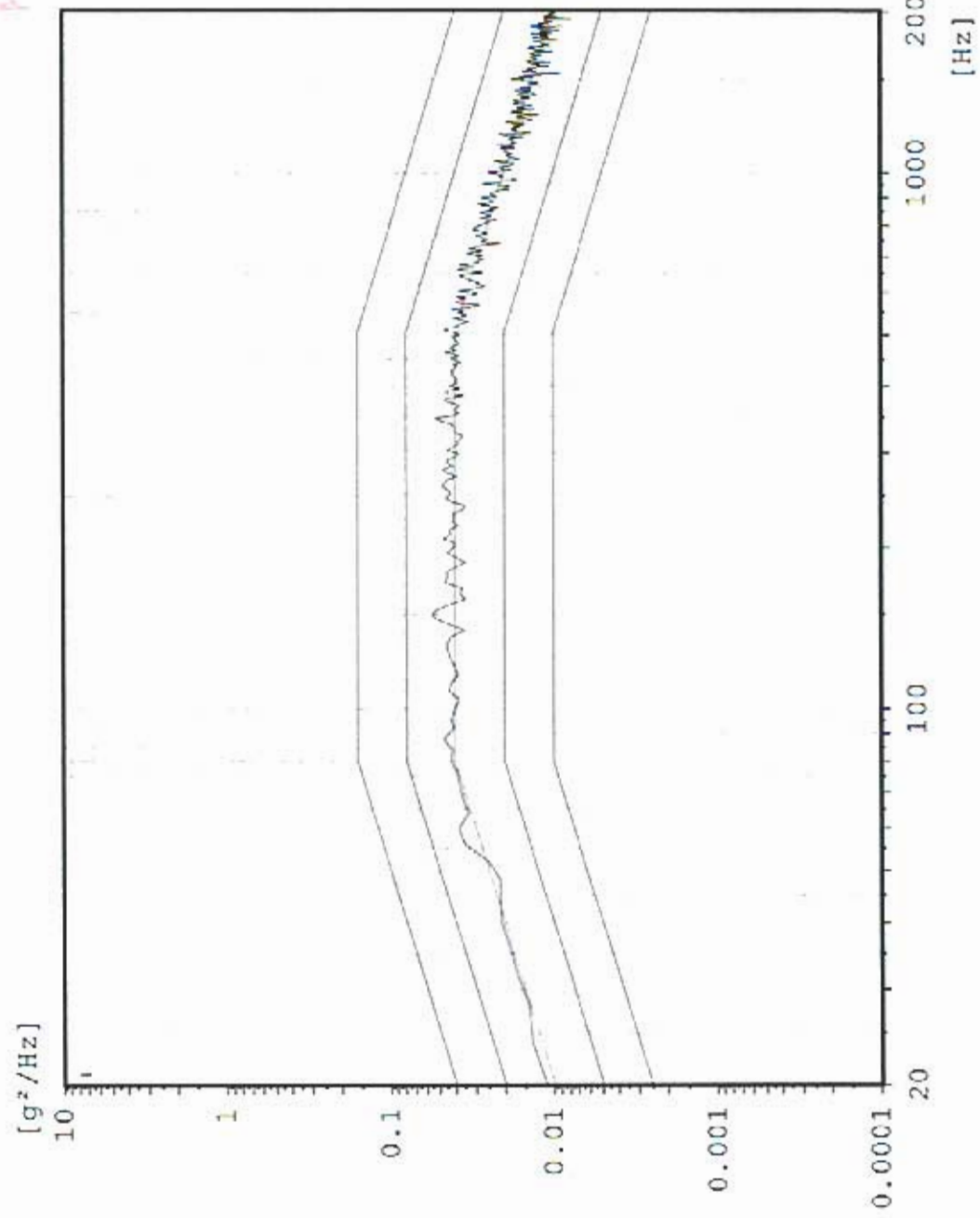
Chan.no: 1
Chan.type: C
DOF: 126
Level: 0.0 dB
Resolution: 4 Hz
Unit: g²/Hz
RMS (act.): 6.878 g
RMS (req.): 6.787 g
Contr.strat.: Closed loop

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

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

Date: 05-11-05
Time: 21:33:16

Z - Axis
Acceptance Unit
GLAT 1834



Cursor: 340 Hz 3.013 g²/Hz

Random AZ4 TPS Boss 2

Stanford Linear Accelerator
J/N 49995.51972
TEM & TPS



PRELIMINARY DATA

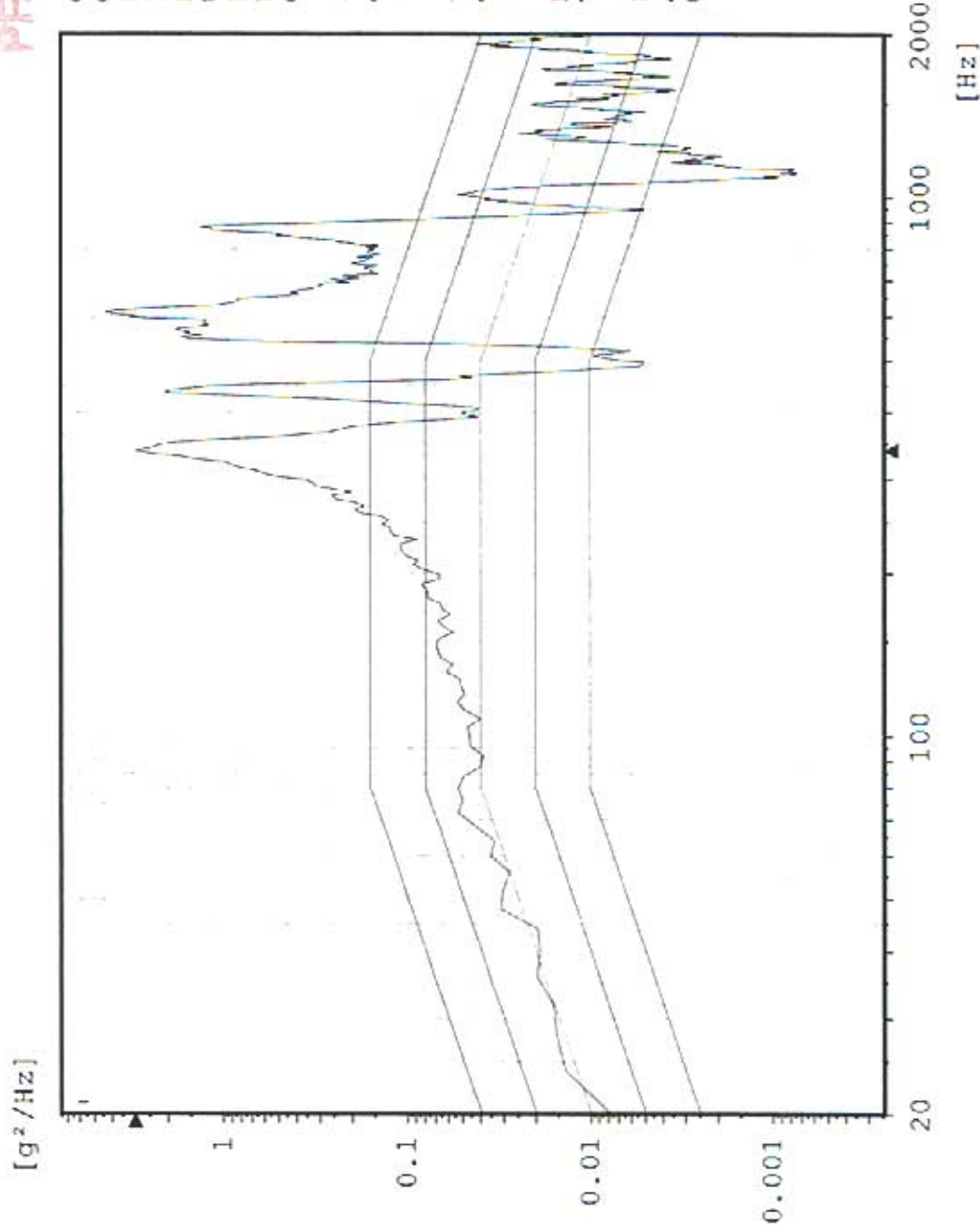
Chan.no: 2
Chan.type: M
DOF: 100
Level: 0.0 dB
Resolution: 4 Hz
Unit: g²/Hz
RMS (act.): 21.69 g
RMS (req.): 6.787 g
Contr.strat.: Closed loop

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

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

Date: 05-11-05
Time: 21:33:16

Z - Axis
Acceptance Unit
GLAT 1834



Max: 340 Hz 2.841 g²/Hz

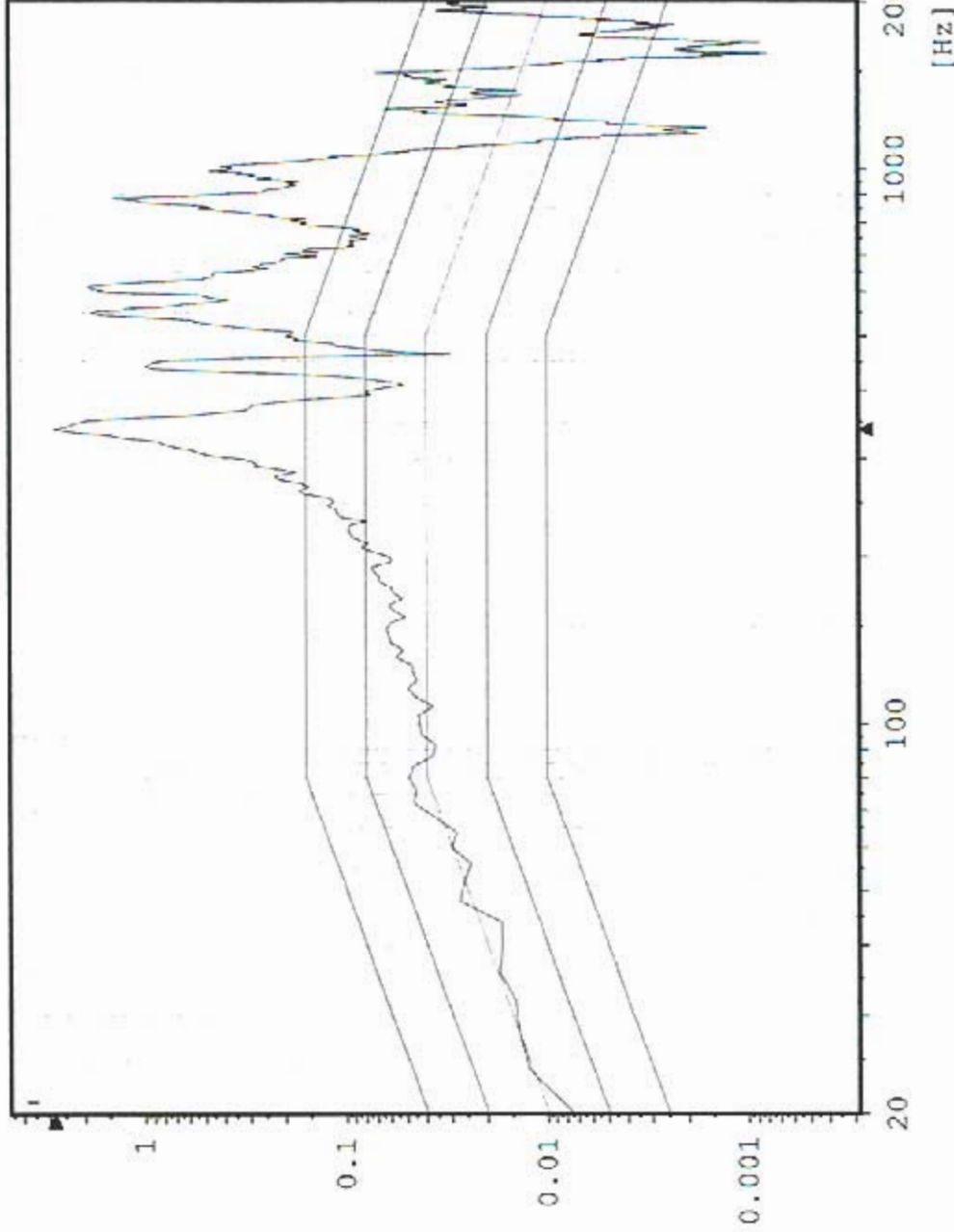
Random AZ3 TPS Boss 1

Stanford Linear Accelerator
J/N 49995.51972
TEM & TPS



PRELIMINARY DATA

[g²/Hz]



Chan.no: 3
Chan.type: M
DOF: 100
Level: 0.0 dB
Resolution: 4 Hz
Unit: g²/Hz
RMS (act.): 20.22 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: 05-11-05
Time: 21:33:16

Z - Axis
Acceptance Unit
GLAT 1834

Cursor: 452 Hz 0.6965 g²/Hz

Random AZ5 TEM Bottom Edge

Stanford Linear Accelerator
J/N 49995.51972
TEM & TPS



PRELIMINARY DATA

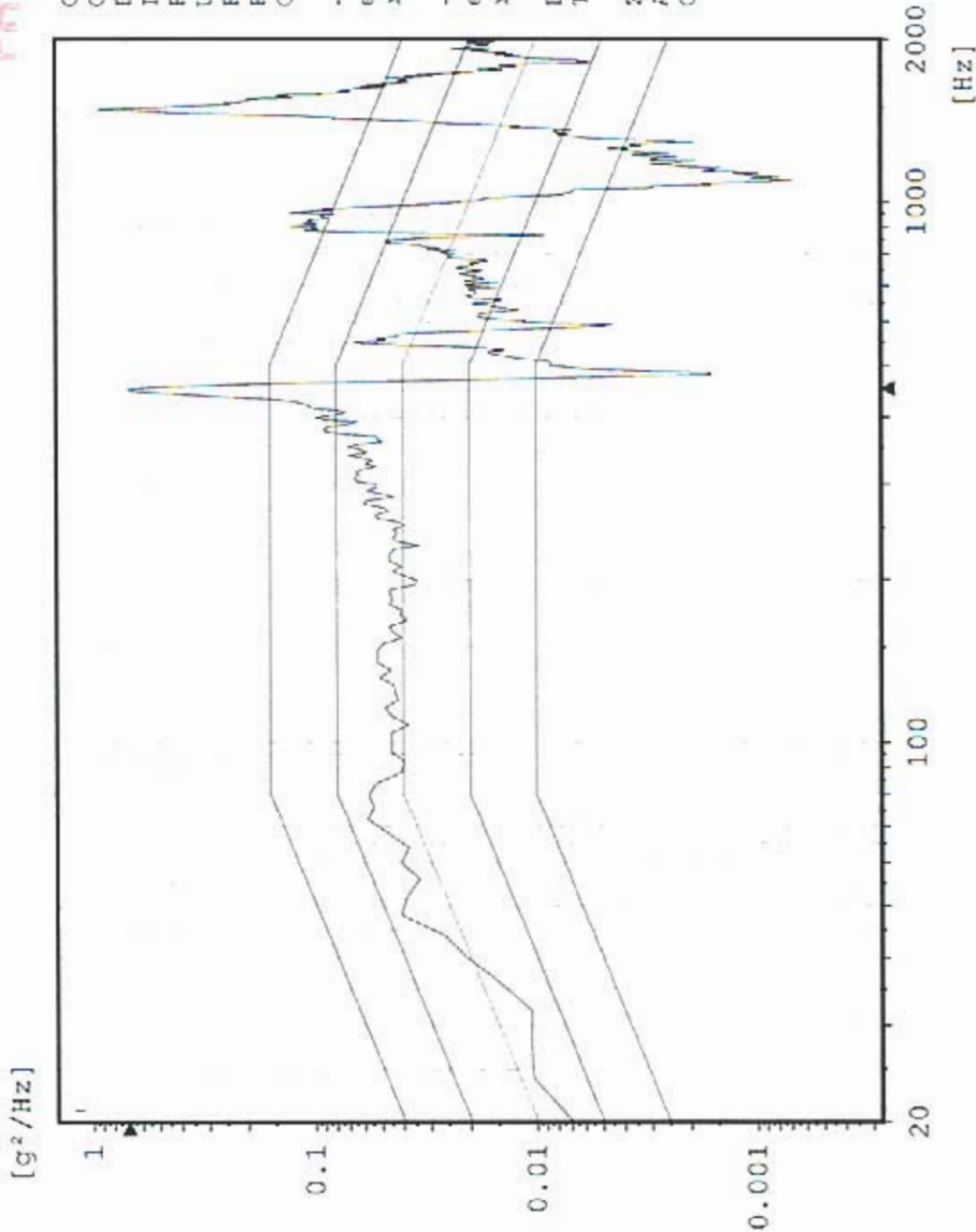
Chan.no: 5
Chan.type: M
DOF: 100
Level: 0.0 dB
Resolution: 4 Hz
Unit: g²/Hz
RMS (act.): 10.83 g
RMS (req.): 6.787 g
Contr.strat.: Closed loop

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

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

Date: 05-11-05
Time: 21:33:16

Z - Axis
Acceptance Unit
GLAT 1834



Cursor: 436 Hz 0.6783 g²/Hz

Random AZ1 TPS Edge Center

Stanford Linear Accelerator
J/N 49995.51972
TEM & TPS



PRELIMINARY DATA.

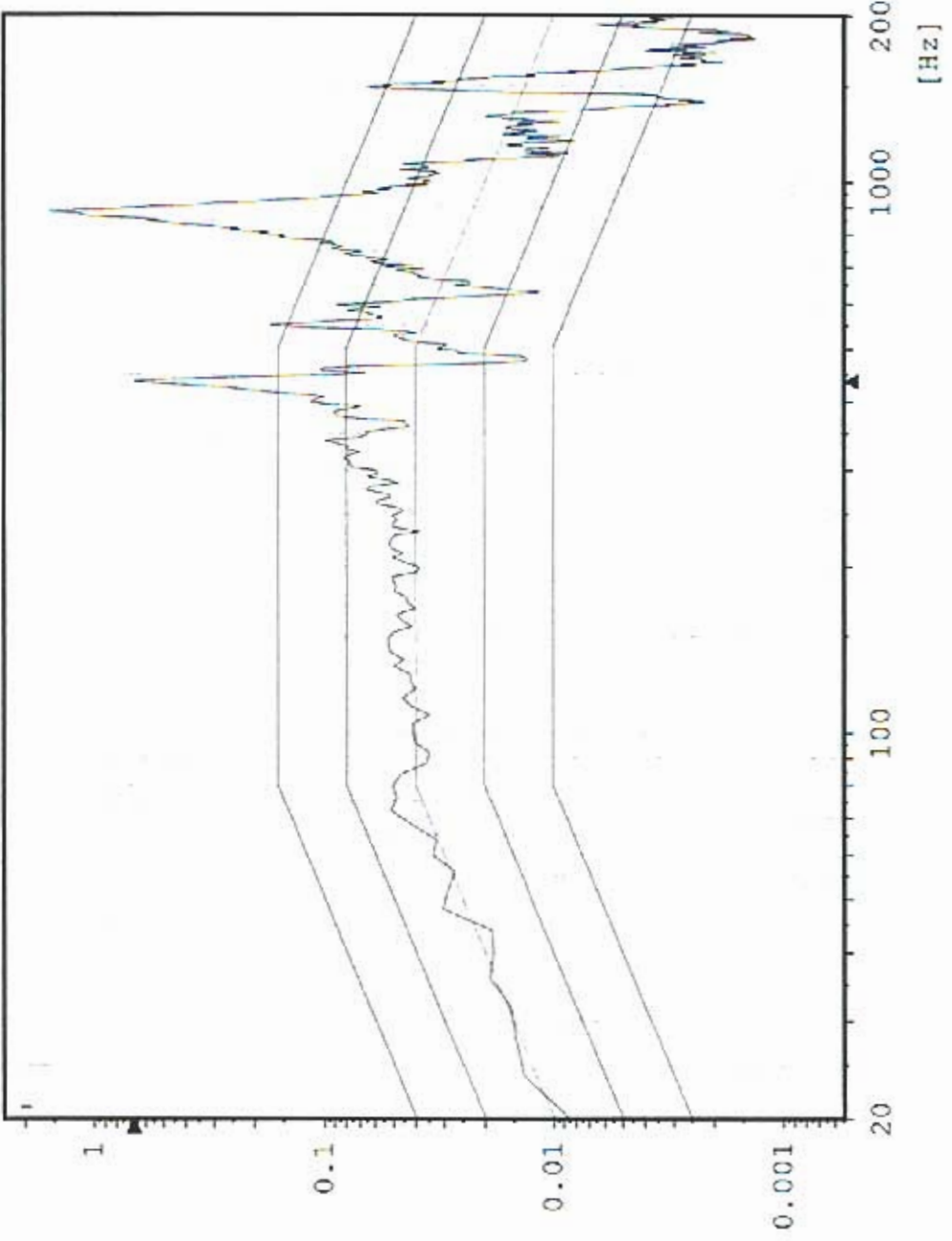
Chan.no: 6
 Chan.type: M
 DOF: 100
 Level: 0.0 dB
 Resolution: 4 Hz
 Unit: g²/Hz
 RMS (act.): 12.03 g
 RMS (req.): 6.787 g
 Contr.strat.: Closed loop

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

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

Date: 05-11-05
 Time: 21:33:16

Z - Axis
 Acceptance Unit
 GLAT 1834



Max: 452 Hz 73.9 g²/Hz

Random AZ6 TEM Bottom Center

Stanford Linear Accelerator
J/N 49995.51972
TEM & TPS



PRELIMINARY DATA.

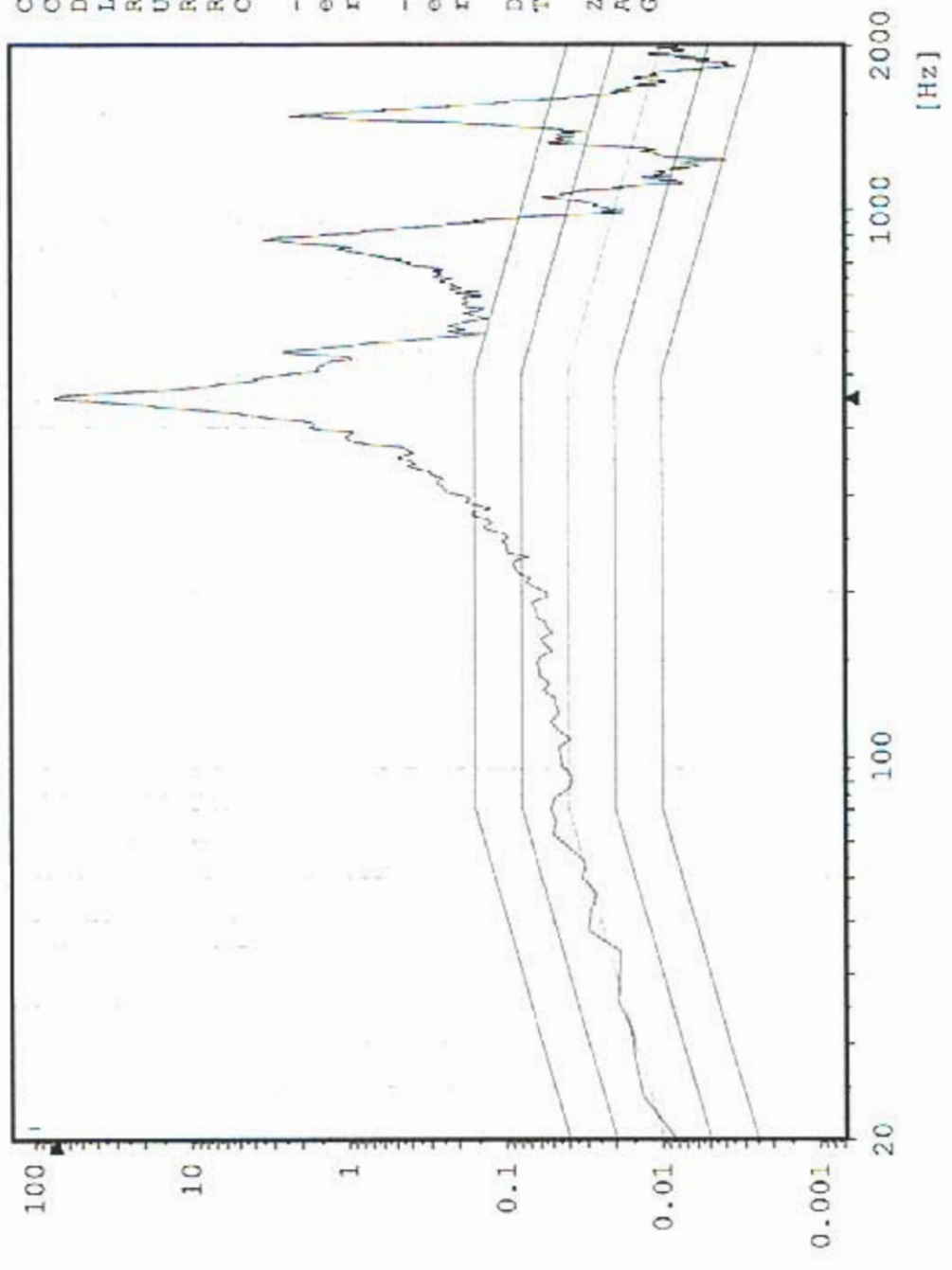
Chan.no: 8
 Chan.type: M
 DOP: 100
 Level: 0.0 dB
 Resolution: 4 Hz
 Unit: g²/Hz
 RMS (act.): 47.43 g
 RMS (req.): 6.787 g
 Contr.strat.: Closed loop

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

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

Date: 05-11-05
 Time: 21:33:16

Z - Axis
 Acceptance Unit
 GLAT 1834



Max: 436 Hz 1.783 g²/Hz

Random AZ2 TPS Corner

Stanford Linear Accelerator
J/N 49995.51972
TEM & TPS



PRELIMINARY DATA

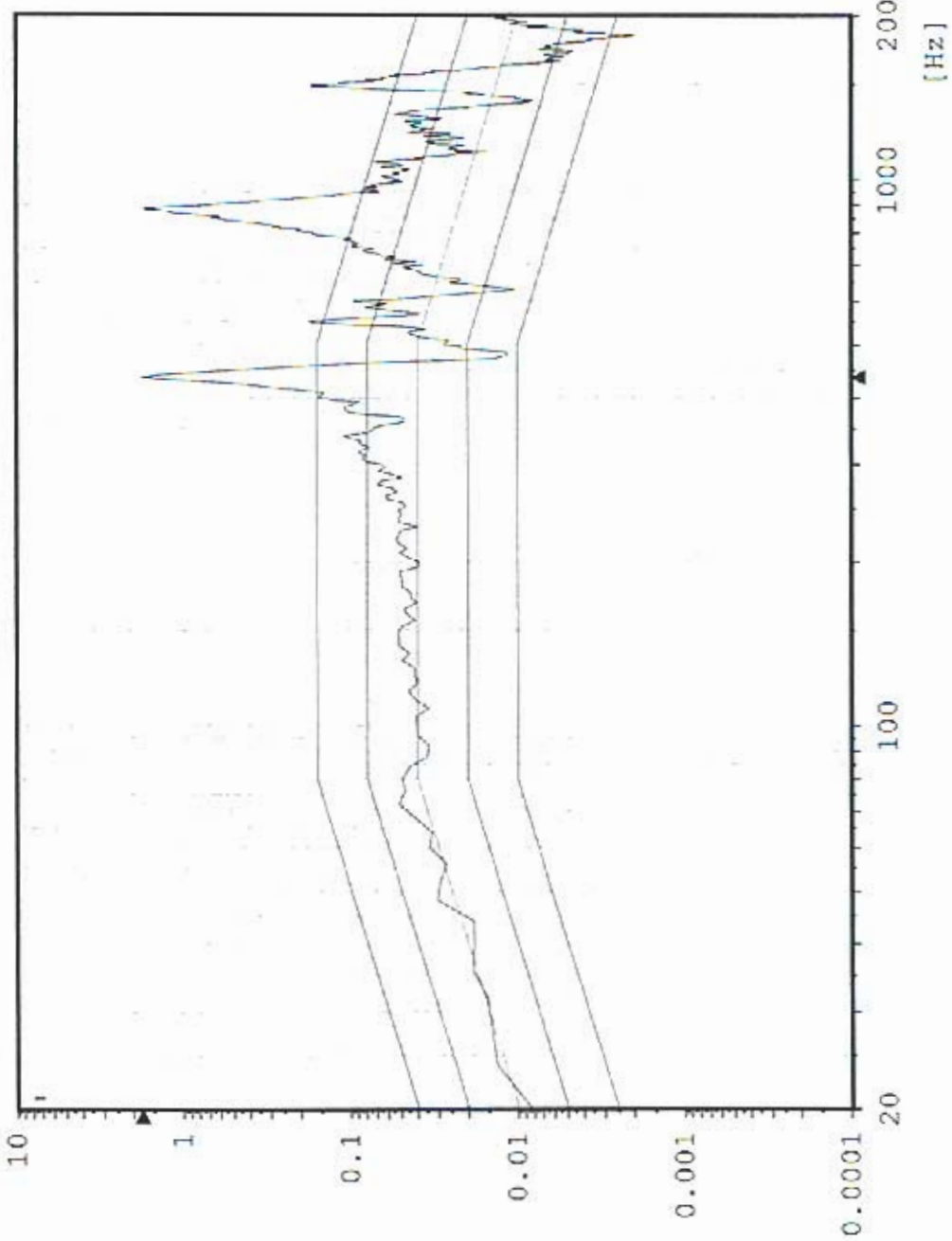
Chan.no: 10
 Chan.type: M
 DOF: 100
 Level: 0.0 dB
 Resolution: 4 Hz
 Unit: g²/Hz
 RMS (act.): 13.87 g
 RMS (req.): 6.787 g
 Contr.strat.: Closed loop

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

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

Date: 05-11-05
 Time: 21:33:16

Z - Axis
 Acceptance Unit
 GLAT 1834

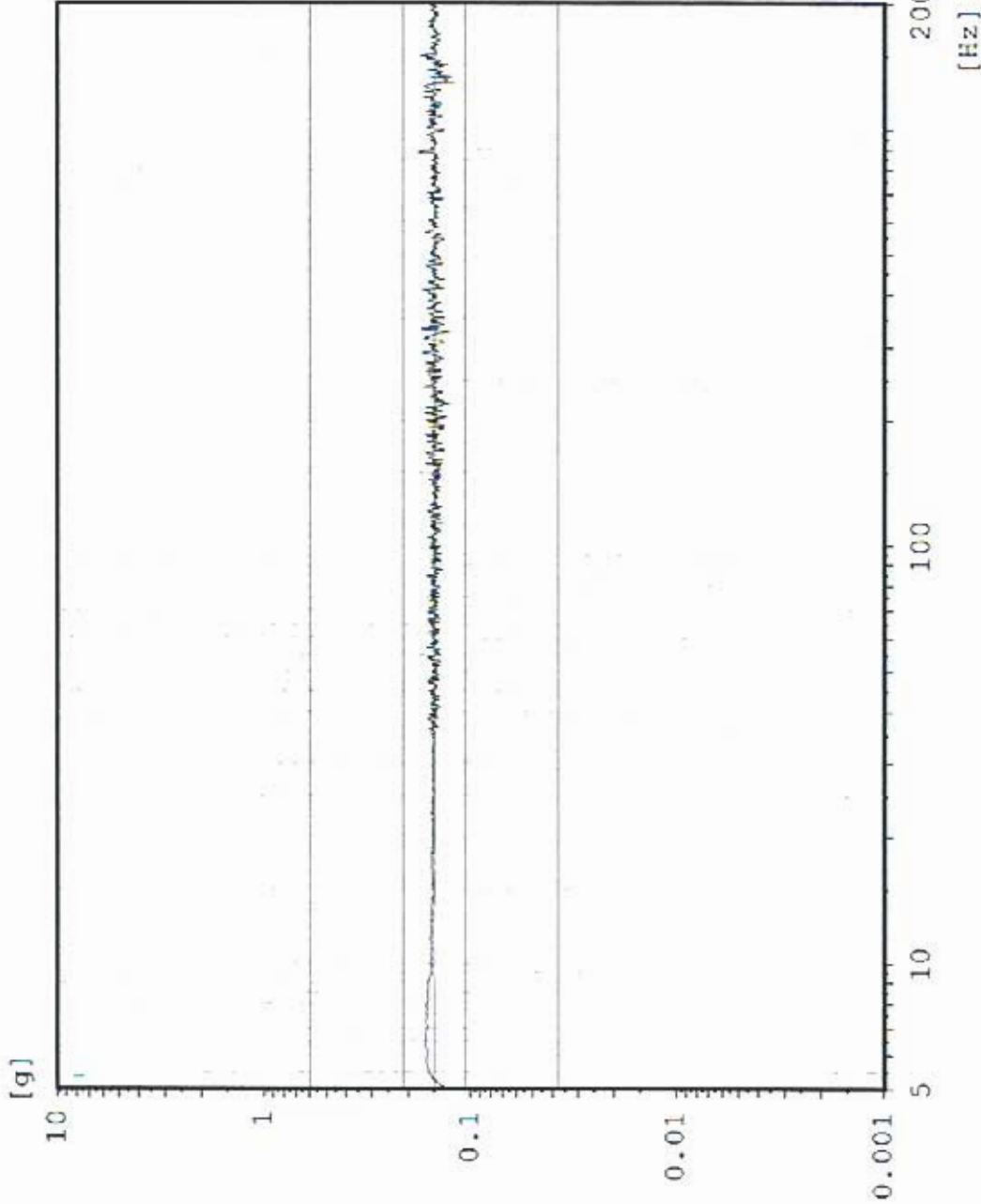


Sine CZ1 Z-Axis Control

Stanford Linear Accelerator
J/N 49995.51972
TEM / TPS



MINIMAX



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: 05-11-05
Time: 21:42:03

Z - axis Post Random
Acceptance Unit
GLAT 1834

AZ4 TPS Boss 2

Sine
Stanford Linear Accelerator
J/N 49995.51972
TEM / TPS



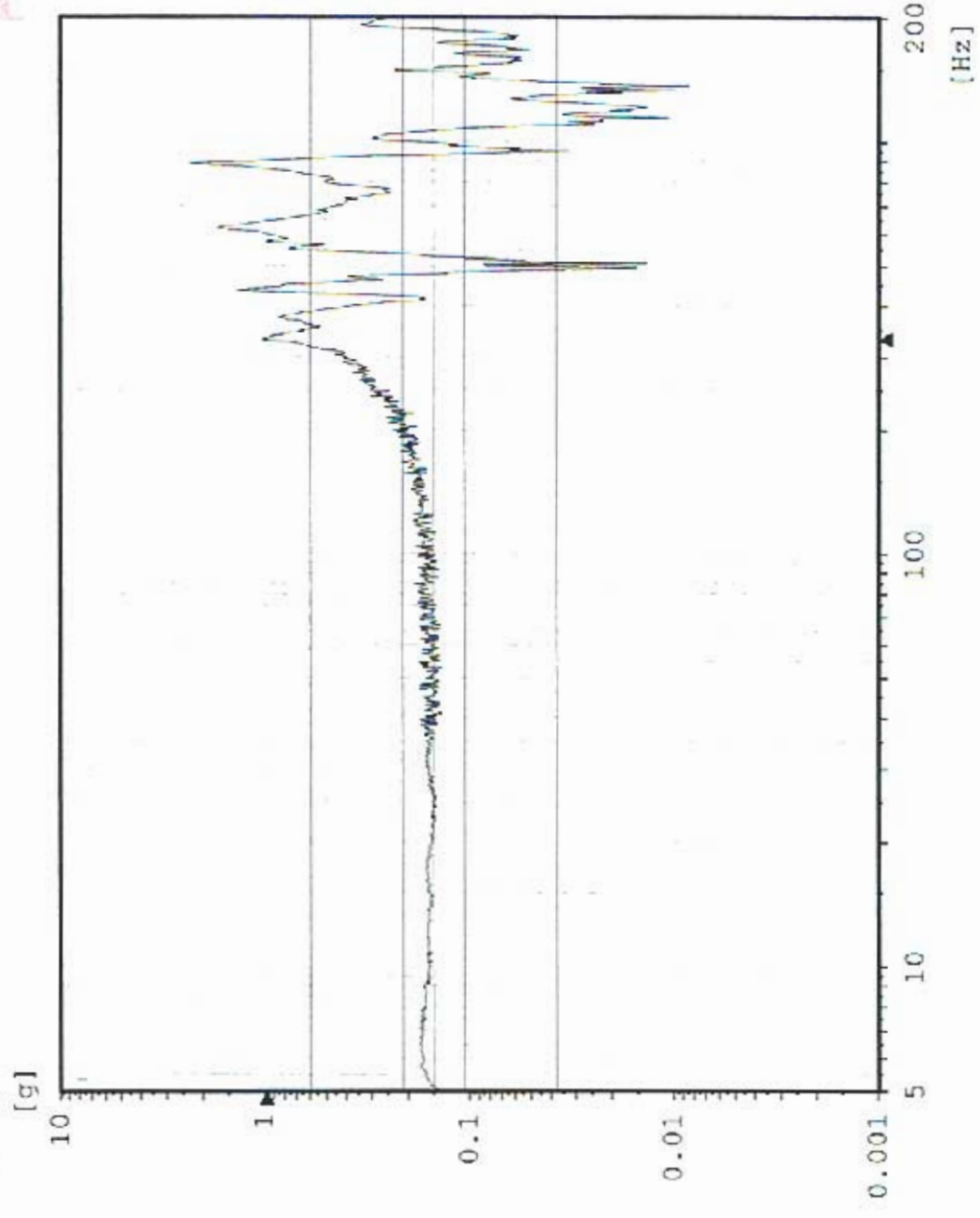
PRELIMINARY

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: 05-11-05
Time: 21:42:03

Z - axis Post Random
Acceptance Unit
GLAT 1834

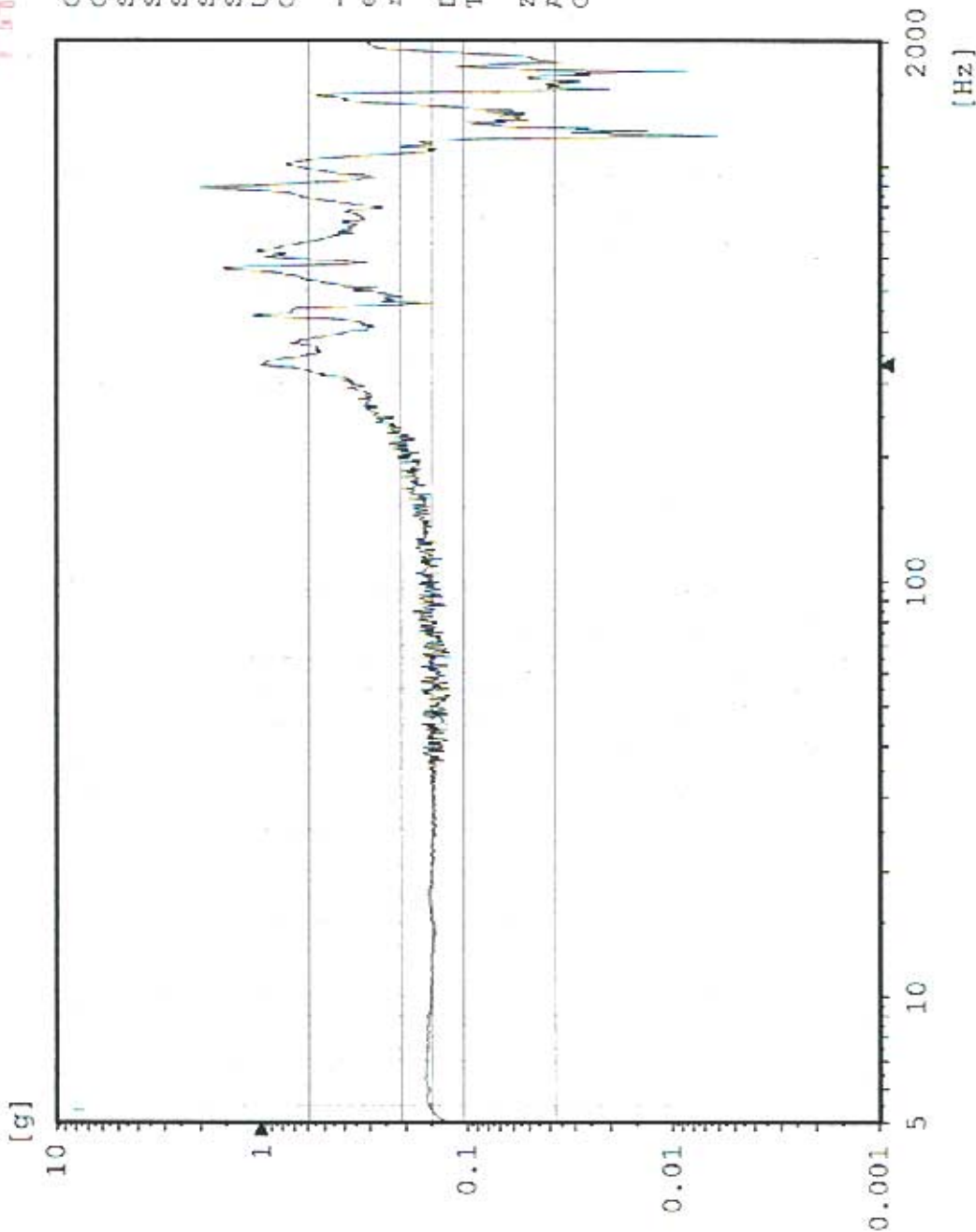


AZ3 TPS Boss 1

Sine
Stanford Linear Accelerator
J/N 49995.51972
TEM / TPS



PRELIMINARY



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: 05-11-05
Time: 21:42:03

Z - axis Post Random
Acceptance Unit
GLAT 1834

Sine AZ5 TEM Bottom Edge

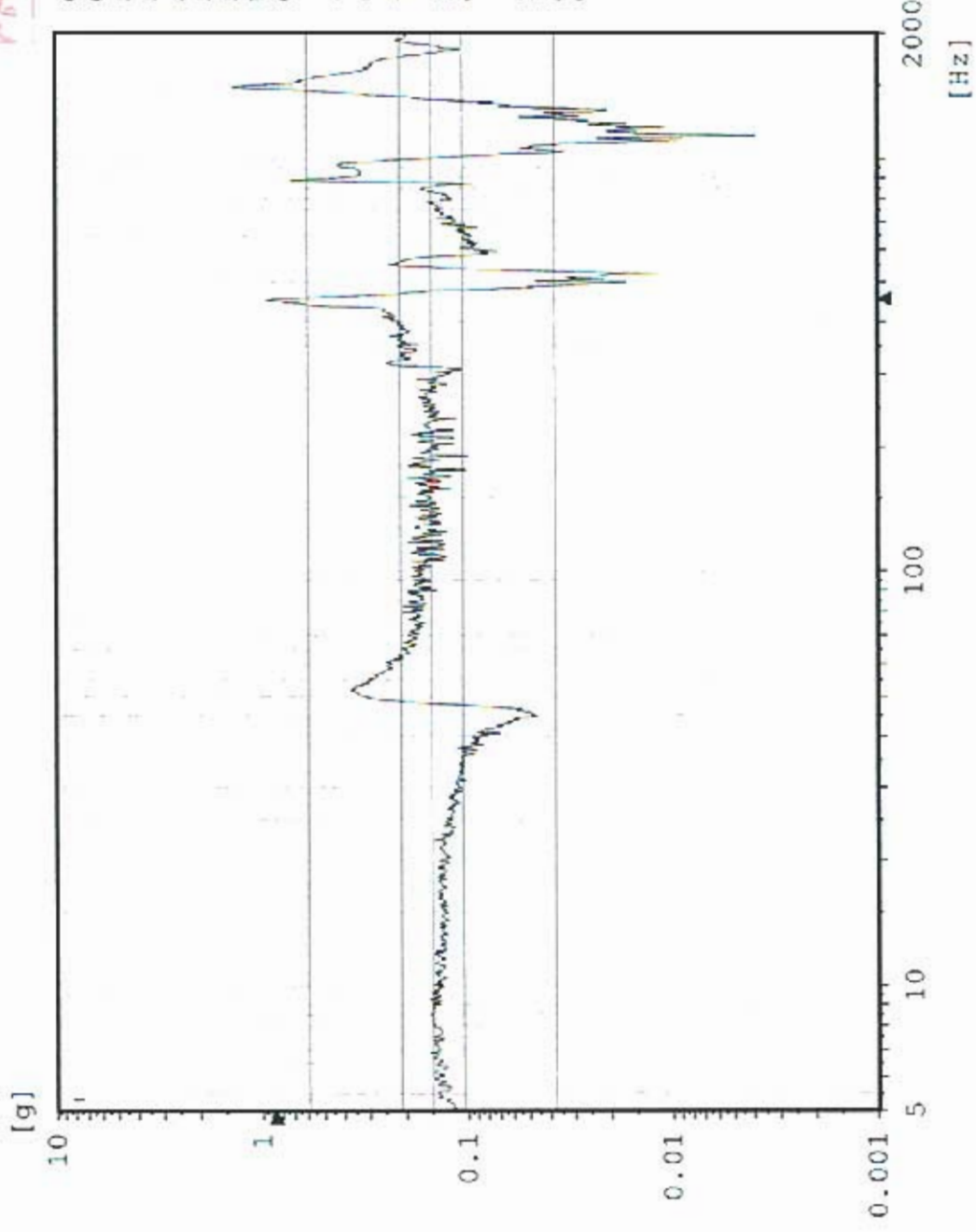
Stanford Linear Accelerator

J/N 49995.51972

TEM / TPS



PRELIMINARY DATA



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: 05-11-05
 Time: 21:42:03

Z - axis Post Random
 Acceptance Unit
 GLAT 1834

Sine AZ1 TPS Edge Center

Stanford Linear Accelerator
J/N 49995.51972
TEM / TPS



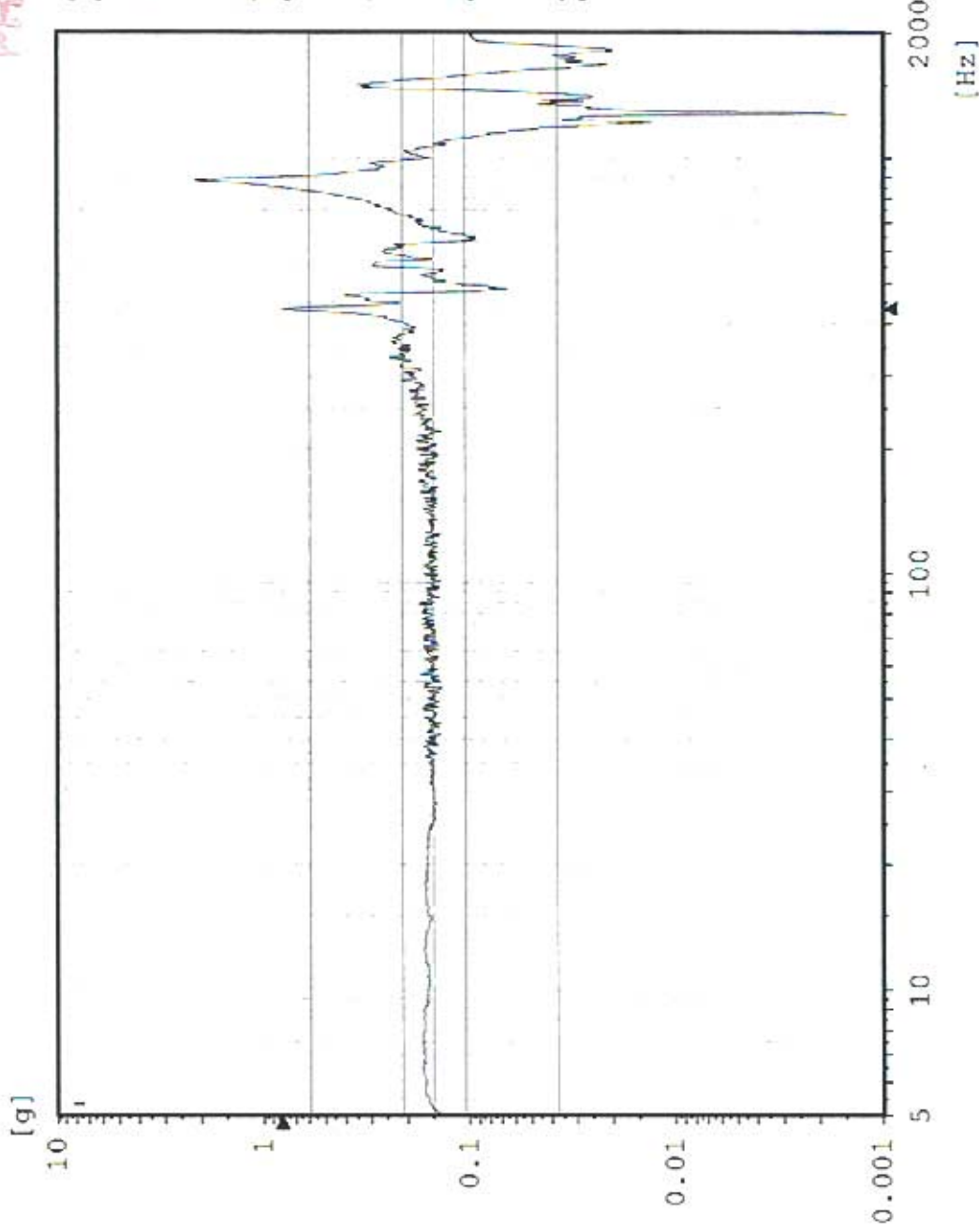
PRELIMINARY DATA

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: 05-11-05
 Time: 21:42:03

Z - axis Post Random
 Acceptance Unit
 GLAT 1834



Sine AZ6 TEM Bottom Center

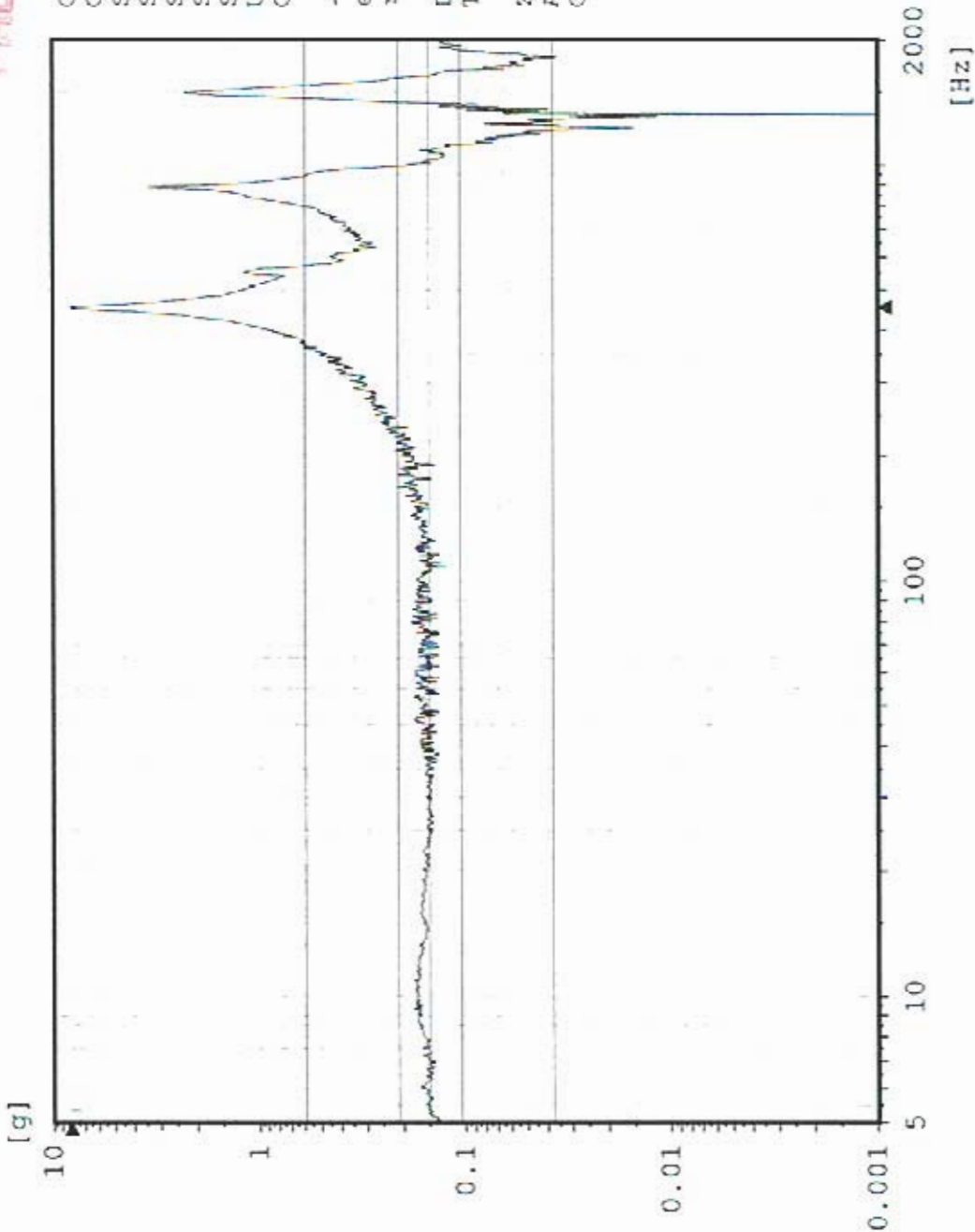
Stanford Linear Accelerator

J/N 49995.51972

TEM / TPS



PRELIMINARY DATA



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: 05-11-05
 Time: 21:42:03

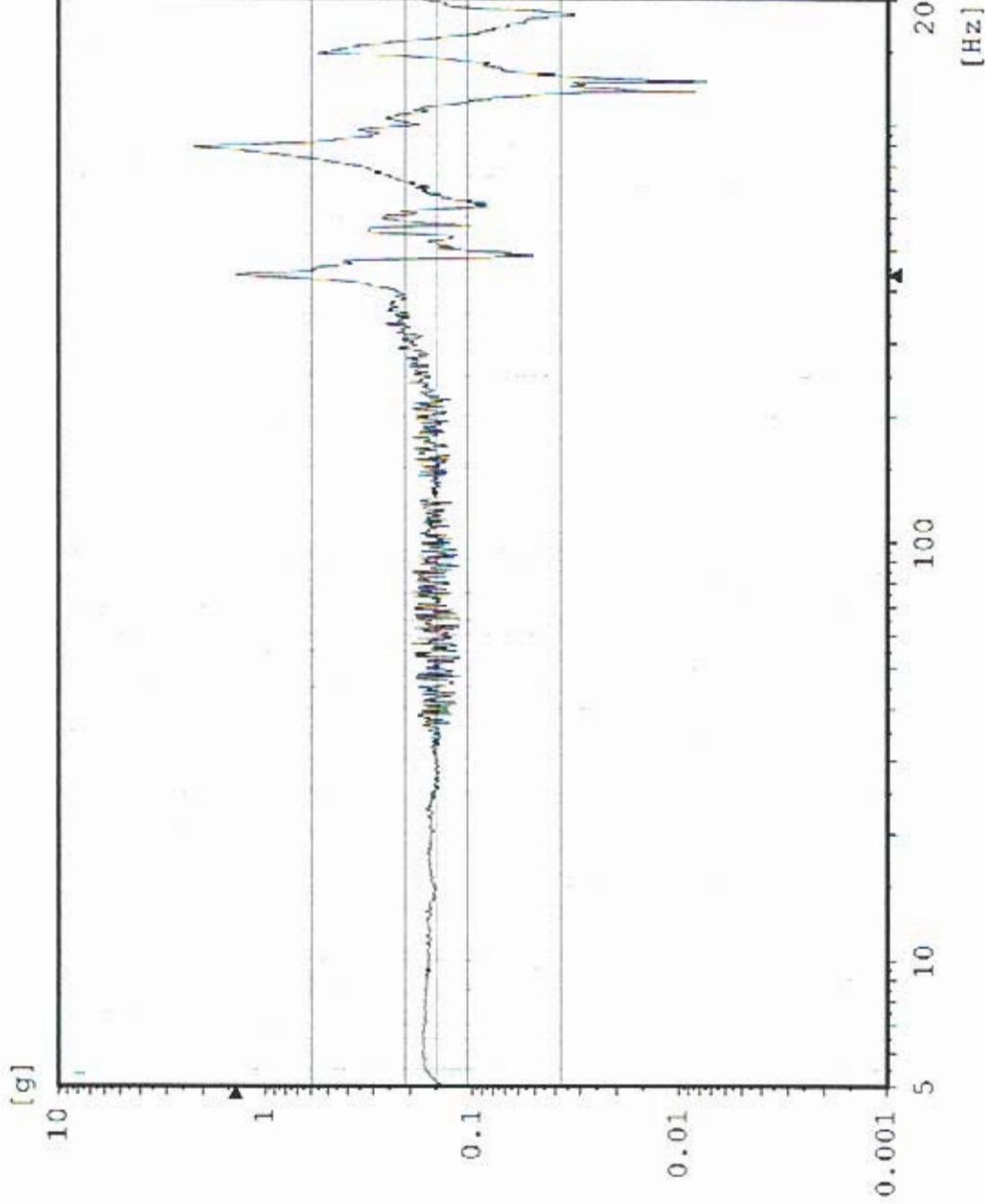
Z - axis Post Random
 Acceptance Unit
 GLAT 1834

Sine AZ2 TPS Corner

Stanford Linear Accelerator
J/N 49995.51972
TEM / TPS



PRELIMINARY DATA



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: 05-11-05
 Time: 21:42:03

Z - axis Post Random
 Acceptance Unit
 GLAT 1834