## Appendix A – Accelerometer Sensitivities

### GLAST LAT Project GASU/PDU Vibration Testing

**Accelerometer Sensitivities and Charge Amp Settings**

<table>
<thead>
<tr>
<th>Accl. #</th>
<th>Ch. #</th>
<th>S/N</th>
<th>Model</th>
<th>Sensitivity [pC/g]</th>
<th>F.S. Range [g]</th>
<th>Tape Gain [mV]</th>
<th>Sensitivity [mV/g]</th>
</tr>
</thead>
<tbody>
<tr>
<td>C21</td>
<td>130-18</td>
<td>222uA</td>
<td>12.43</td>
<td>3</td>
<td>3000</td>
<td>1000</td>
<td></td>
</tr>
<tr>
<td>A21</td>
<td>3</td>
<td>AM0102</td>
<td>222uA 3.050</td>
<td>3</td>
<td>3000</td>
<td>1000</td>
<td></td>
</tr>
<tr>
<td>A22</td>
<td>6</td>
<td>AM0394</td>
<td>222uA 3.059</td>
<td>3</td>
<td>3000</td>
<td>1000</td>
<td></td>
</tr>
<tr>
<td>A23</td>
<td>10</td>
<td>AM0394</td>
<td>222uA 3.017</td>
<td>3</td>
<td>3000</td>
<td>1000</td>
<td></td>
</tr>
<tr>
<td>C21</td>
<td>130-18</td>
<td>222uA</td>
<td>12.43</td>
<td>3</td>
<td>3000</td>
<td>1000</td>
<td></td>
</tr>
<tr>
<td>A21</td>
<td>3</td>
<td>AM0102</td>
<td>222uA 3.050</td>
<td>3</td>
<td>3000</td>
<td>1000</td>
<td></td>
</tr>
<tr>
<td>A22</td>
<td>6</td>
<td>AM0394</td>
<td>222uA 3.059</td>
<td>3</td>
<td>3000</td>
<td>1000</td>
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</tr>
<tr>
<td>A23</td>
<td>10</td>
<td>AM0394</td>
<td>222uA 3.017</td>
<td>3</td>
<td>3000</td>
<td>1000</td>
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</tr>
</tbody>
</table>

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Form # GF-00005-A
### Appendix B – Test Log

GLAST LAT Project TEM/TPS Vibration Testing

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Unit #</th>
<th>Axis</th>
<th>Line of Random</th>
<th>Level (g)</th>
<th>Frequency (Hz)</th>
<th>File Name</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>7/32</td>
<td>150</td>
<td>1978</td>
<td>X</td>
<td>X50 X55</td>
<td>0.15</td>
<td>5 2000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>18/10</td>
<td>050</td>
<td>1978</td>
<td>X</td>
<td>X50 X55</td>
<td>0.15</td>
<td>5 2000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>18/10</td>
<td>050</td>
<td>1978</td>
<td>X</td>
<td>X50 X55</td>
<td>0.15</td>
<td>5 2000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>18/10</td>
<td>050</td>
<td>1978</td>
<td>X</td>
<td>X50 X55</td>
<td>0.15</td>
<td>5 2000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>18/10</td>
<td>050</td>
<td>1978</td>
<td>X</td>
<td>X50 X55</td>
<td>0.15</td>
<td>5 2000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>18/10</td>
<td>050</td>
<td>1978</td>
<td>X</td>
<td>X50 X55</td>
<td>0.15</td>
<td>5 2000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>18/10</td>
<td>050</td>
<td>1978</td>
<td>X</td>
<td>X50 X55</td>
<td>0.15</td>
<td>5 2000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>18/10</td>
<td>050</td>
<td>1978</td>
<td>X</td>
<td>X50 X55</td>
<td>0.15</td>
<td>5 2000</td>
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<td></td>
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</table>

**Remarks:**
- Noise much of 10^-9
- Cable - 69 change cap
### Appendix C – Procedure Variation

#### GLAST LAT Project GASU/PDU Vibration Testing

#### Installation Steps and Procedure Variations

<table>
<thead>
<tr>
<th>Date</th>
<th>Axis</th>
<th>Test Setup</th>
<th>Installation Step Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>7/22/07</td>
<td>N/A</td>
<td></td>
<td>Incoming Visual inspection (e.g. ensure taped gips are still sealed)</td>
</tr>
<tr>
<td>7/22/07</td>
<td>Z</td>
<td></td>
<td>Torque vibration fixture bolts to shaker to 25 ft-lbf (300 in-lbf)</td>
</tr>
<tr>
<td>7/22/07</td>
<td>Z</td>
<td></td>
<td>Torque GASU/PDU to vibration fixture to 150 in-lbf</td>
</tr>
<tr>
<td>7/22/07</td>
<td>Z</td>
<td></td>
<td>Confirm accelerometer installation</td>
</tr>
<tr>
<td>7/22/07</td>
<td>X</td>
<td></td>
<td>Torque vibration fixture bolts to shaker to 25 ft-lbf</td>
</tr>
<tr>
<td>7/22/07</td>
<td>X</td>
<td></td>
<td>Torque GASU/PDU to vibration fixture to 150 in-lbf</td>
</tr>
<tr>
<td>7/22/07</td>
<td>X</td>
<td></td>
<td>Confirm accelerometer installation</td>
</tr>
<tr>
<td>7/22/07</td>
<td>Y</td>
<td></td>
<td>Torque vibration fixture bolts to shaker to 25 ft-lbf</td>
</tr>
<tr>
<td>7/22/07</td>
<td>Y</td>
<td></td>
<td>Torque GASU/PDU to vibration fixture to 150 in-lbf</td>
</tr>
<tr>
<td>7/22/07</td>
<td>Y</td>
<td></td>
<td>Confirm accelerometer installation</td>
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#### Test Variations

<table>
<thead>
<tr>
<th>Date</th>
<th>Axis</th>
<th>Test Setup</th>
<th>Test Variation Description</th>
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Forms # GF-0000-A
## 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)*

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

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## TEST DATA

<table>
<thead>
<tr>
<th>DATE STARTED</th>
<th>DATE COMPLETED</th>
<th>TEMPERATURE</th>
<th>HUMIDITY</th>
<th>SPECIMEN NUMBER</th>
<th>PART OR MODEL NUMBER</th>
<th>SERIAL NUMBER</th>
<th>LOT NUMBER</th>
<th>DATE CODE</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>07-26-05</td>
<td>07-29-05</td>
<td>73°F</td>
<td>41% R.H.</td>
<td>GLAT1848</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>TEM / TPS</td>
</tr>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>GLAT1847</td>
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<td>-</td>
<td>-</td>
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<td>TEM / TPS</td>
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<td></td>
<td></td>
<td></td>
<td>GLAT1898</td>
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<td>-</td>
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<td>PDU</td>
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**Note:** No discrepancies noted.

**JOB NUMBER**: 49995 52115

**MANUFACTURER**: Stanford Linear Accelerator

**SPECIMEN DESCRIPTION**: TEM / TPS, PDU

**TYPE OF TEST**: VISUAL EXAMINATION - Initial

**SOP 6-08, REV. L**
**TEST DATA**

**DATE STARTED**
08-02-05

**DATE COMPLETED**
08-02-05

**TEMPERATURE**
74°F

**HUMIDITY**
38% R.H.

**SPECIMEN DESCRIPTION**
Stanford Linear Accelerator TEM / TPS

**TYPE OF TEST**
VISUAL EXAMINATION - Initial

**MANUFACTURER**
Stanford Linear Accelerator

**TEST SPECIFICATION**

**JOB NUMBER**
49995 52129

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<table>
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<tr>
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<th>SERIAL NUMBER</th>
<th>PART OR MODEL NUMBER</th>
<th>LOT NUMBER</th>
<th>DATE CODE</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
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<td>GLAT 1549</td>
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<td>-</td>
<td>-</td>
<td>Note. No discrepancies noted.</td>
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</table>

F 413-06 (10/01)
# TEST DATA

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<th>CUSTOMER</th>
<th>TEMPERATURE</th>
<th>HUMIDITY</th>
</tr>
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<tbody>
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<td>07-28-05</td>
<td>Stanford Linear Accelerator</td>
<td>73°F</td>
<td>41% R.H.</td>
</tr>
<tr>
<td>DATE COMPLETED</td>
<td>SPECIMEN DESCRIPTION: TEM &amp; TPS (See Initial Visual.)</td>
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<td></td>
</tr>
<tr>
<td>07-29-05</td>
<td>SPECIMEN NUMBER: 1 - 3</td>
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</tr>
<tr>
<td></td>
<td>TEST SPECIFICATION: See Vibration Data</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TECHNICIAN (SIGNATURE)</th>
<th>ENGINEER (SIGNATURE)</th>
<th>JOB NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>49965.52115</td>
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</tbody>
</table>

**Z - Axis**

**X - Axis**

**Y - Axis**

F-453-01 (12/01)
### TEST DATA

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<tr>
<th>DATE STARTED</th>
<th>CUSTOMER</th>
<th>DATE COMPLETED</th>
<th>SPECIMEN DESCRIPTION</th>
<th>TEMPERATURE</th>
<th>TYPE OF TEST</th>
<th>HUMIDITY</th>
<th>MANUFACTURER</th>
<th>SPECIMEN NUMBER</th>
<th>TEST SPECIFICATION</th>
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</thead>
<tbody>
<tr>
<td>08-02-05</td>
<td>Stanford Linear Accelerator</td>
<td>08-02-25</td>
<td>TEM &amp; TPS (See Initial Visual)</td>
<td>74°F</td>
<td>SET-UP - Detail</td>
<td>38% RH</td>
<td>Stanford Linear Accelerator</td>
<td>1</td>
<td>See Vibration Data</td>
</tr>
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</table>

**TECHNICIAN** (Signature): [Signature]

**ENGINEER** (Signature): [Signature]

**JOB NUMBER**: 490552129

---

**Z - Axis**

**X - Axis**

**Y - Axis**
<table>
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<tr>
<th>SPECIMEN NUMBER</th>
<th>DATE</th>
<th>AXIS</th>
<th>TIME START</th>
<th>VIBRATION FREQUENCIES AND LEVELS</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>07-28-05</td>
<td>Z</td>
<td>1341</td>
<td>2000 Hz @ 0.15g</td>
<td>Sine Search</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2 cycles / minute</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1 sweep up / axis</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td></td>
<td></td>
<td>1359</td>
<td>20% - 20Hz</td>
<td>Sine Search</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Random Accept.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1409</td>
<td>20% - 20Hz</td>
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</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
<td>1435</td>
<td>andom Accept.</td>
<td>Random Accept.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>80 - 500Hz @ 3.04 GHz</td>
<td>Sine Search</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2000Hz @ 0.01 GfHz</td>
<td>Sine Search</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1448</td>
<td>6.79 Gms overall</td>
<td>Sine Search</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1 minute / axis</td>
<td>Random Accept.</td>
</tr>
<tr>
<td>1</td>
<td></td>
<td></td>
<td>1457</td>
<td>1551</td>
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</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>+0.04.18</td>
<td>Sine Search</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1603</td>
<td>+0.01.00</td>
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<tr>
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<td>1611</td>
<td>+0.04.18</td>
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</tr>
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<td>1629</td>
<td>+0.04.18</td>
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<td>+0.04.18</td>
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<td>1</td>
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<td></td>
<td>1703</td>
<td>+0.04.18</td>
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<td>1</td>
<td>07-28-05</td>
<td>Y</td>
<td>1715</td>
<td>+0.01.00</td>
<td>Random Accept.</td>
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F 410-06 (10/01)
## TEST DATA

<table>
<thead>
<tr>
<th>SPECIMEN NUMBER</th>
<th>TEST SPECIFICATION</th>
<th>SLAC LAT-TE-05649 &amp; Customer Instruction</th>
<th>DATE</th>
<th>AXES</th>
<th>TIME START</th>
<th>TIME STOP</th>
<th>VIBRATION FREQUENCIES AND LEVELS</th>
<th>REMARKS</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
<td>07/29/05</td>
<td>Y</td>
<td>1720</td>
<td>+0:04:18</td>
<td>Sine - Search 2000Hz @ 0.15g 2 oscill per minute 1 sweep up / axis</td>
<td>Sine Search</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>X</td>
<td>1733</td>
<td>+0:04:18</td>
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<td>Sine Search</td>
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<tr>
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<td></td>
<td></td>
<td></td>
<td>X</td>
<td>1742</td>
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<td>Random Accept</td>
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<tr>
<td>1</td>
<td></td>
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<td>07/28/05</td>
<td>X</td>
<td>1748</td>
<td>+0:04:18</td>
<td>Random - Accept 20Hz @ 0.01 G/Hz 80 - 500Hz @ 0.04 G/Hz 2000Hz @ 0.01 G/Hz 6.79 Gms overall 1 minute / axis</td>
<td>Sine Search</td>
</tr>
</tbody>
</table>

Note: Specimens were returned to customer for a proof test evaluation.
<table>
<thead>
<tr>
<th>SPECIMEN NUMBER</th>
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<th>AXIS</th>
<th>TIME START</th>
<th>TIME STOP</th>
<th>VIBRATION FREQUENCIES AND LEVELS</th>
<th>REMARKS</th>
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<td>1</td>
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<td>X</td>
<td>0922</td>
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<td>Sine - Search</td>
<td>Sine Search, repeat, bad charge amp</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1003</td>
<td>+0:04:18</td>
<td>20 - 20000Hz @ 0.1g</td>
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<td></td>
<td></td>
<td>2 octaves/minute</td>
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</tr>
<tr>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>1 sweep up/axis</td>
<td></td>
</tr>
<tr>
<td></td>
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<td>X</td>
<td>1019</td>
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<td>1024</td>
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<td>Random - Accept, 20Hz @ 0.01 G Hz</td>
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</tr>
<tr>
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<td></td>
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<td>1058</td>
<td>+0:01:00</td>
<td>Sine Search</td>
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</tr>
<tr>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>60- 500Hz @ 0.04 G Hz, 2000Hz @ 0.01 G Hz</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>6.79 Grms overall</td>
<td></td>
</tr>
<tr>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>1 minute / axis</td>
<td></td>
</tr>
<tr>
<td></td>
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<td></td>
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<td>1121</td>
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</tr>
<tr>
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<td></td>
<td></td>
<td></td>
<td>Sine Search, reseal, retorqued bolts</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>Z</td>
<td>1223</td>
<td>+0:04:18</td>
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<tr>
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<tr>
<td></td>
<td>08-02-05</td>
<td>Z</td>
<td>1243</td>
<td>+0:04:18</td>
<td>Random Accept</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Sine Search</td>
<td></td>
</tr>
</tbody>
</table>

Note: No external physical damage noted due to this test.
Random
Stanford Linear Accelerator
J/N 49996.52115
Tek & TPS
[g^2/Hz]

CH# 5 TEM center edge

Chan.no: 5
Chan.type: m
DOF: 100
Level: 6.0 dB
Resolution: 4 Hz
Unit: g^2/Hz
RMS (act.): 0.245 g
RMS (req.): 0.787 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: 07-28-95
Time: 16:04:10
X-Axis: Acceptance Unit
Y-Axis: GLAC 1847
AX3 TPS top center

Stanford Linear Accelerator
J/N 49996.52115
TEM / TPS

[Image of a graph with frequency on the x-axis and acceleration [g] on the y-axis, showing a peak at a certain frequency.]

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: 000:04:10
remaining: 000:00:00

Date: 07-28-05
Time: 16:15:32

X - axis Post Random Acceptance Unit GLAC 1947

C:\WPN\Data\m+p\SLAC\SLAC .15 g 5-2000 Acceptance X_059.rsn
Sine
Stanford Linear Accelerator
J/4 49995.52115
TMS / TPS

AX1 TEM center edge

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: 000:04:16
remaining: 000:00:00

Date: 07-28-05
Time: 16:15:22

X-axis Post Random
Acceptance Unit
GLF 1847

C:\Wp\NT\Date:\m+p\SLAC\SLAC_15 g 5-2000 Acceptance X_059.rsn
Sine
Stanford Linear Accelerator
J/N 40495.52115
TEM / TPS

AX2 TPS CG

chan.no: 10
Chan.types: M Filtered
Sweep type: logarithmic
Sweeps done: 1
Sweeps req.: 1
Sweep direct.: up
Sweep rate: 7.20 Oct/min
Unit: g
Contr.strat.: Closed loop

-- Testing time --
elapsed: 00:04:18
remaining: 00:00:00
Date: 07-28-05
Time: 16:15:32

x-axis root random
Acceptance Unit
GLAT 1747
Sine
Stanford Linear Accelerator
J/N 49935.52129
TEM / TPS

AY4 TPS Top Edge

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: 06:04:19
remaining: 00:00:00

Date: 07-28-05
Time: 14:33:38

Y - axis: Frequency
Acceptance: Unit
GLAT 1547

C:\W permanent Gaten\mp\SLAC\SLAC .15 g 5-2000 Acceptance f_039.rsn
Sine
Stanford Linear Accelerator
J/N 49995.5211b
TPM / TPS

AY2 TPS CG

Chan. no: 10
Chan. type: M Filtered
Sweep type: logarithmic
Sweeps done: 1
Sweeps reg.: 1
Sweep direct.: up
Sweep rate: 2.00 oct/min

Unit: g
Contr. strat.: Closed loop

-- Testing time --
Elapsed: 00:14:18
Remaining: 00:00:00

Date: 07-28-05
Time: 16:33:38

Y-axis: Pre Random Acceptance Unit
GLAT 1847

C:\WpcNT\Date\m+p\SLAC\SLAC .15 g 5-2000 Acceptance Y_0.039.rsn
Random
Stanford Linear Accelerator
S/N 49995.51115
TEM 6 TP6

AY4 TPS Top Edge

Channel: 3
Channel Type: M
Date: 07-28-05
Time: 16:41:31

Y-Axis: Acceptance Unit
GLF 1847

Max: 440 Hz
2.197 g²/Hz

Channel: 3
Channel Type: M
Date: 07-28-05
Time: 16:41:31

Y-Axis: Acceptance Unit
GLF 1847

Max: 440 Hz
2.197 g²/Hz
AY1 TEM Center Edge

Chan.no: 0
Chan.type: M
OOF: 100 dB
Level: 0.0 dB
Resolution: 4 Hz
Unit: g^2/Hz
RMS (act.): 9.584 g
RMS (req.): 6.787 g
Contr.evtstat: Closed loop

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

-- Time total --
elapsed: 000:02:05
remaining: 000:00:00

Date: 07-28-05
Time: 16:41:31

Y - Axis
Acceptance Unit
GLAF 1947
Sine
Stanford Linear Accelerator
J/N 499900.32115
TIM / TPS

CY1 Y-Axis Control

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. stat.: Closed loop

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

Date: 07-28-95
Time: 16:50:49

Y-axis Post Random Acceptance Unit
START 1847
Sine Stansford Linear Accelerator J/N 49995.52115 TEM / TPS

AY4 TPS Top Edge

Char.no: 3
Chn.type: M Filtered
Sweep type: Logarithmic
Sweeps done: 1
Sweeps req.: 1
Sweep direct.: Up
Sweep rate: 2.00 Oct/min
Unit: g
Contr. stat.: Closed loop

-- Testing time --
elapsed: 000:04:10
remaining: 000:03:00
Date: 07-29-05
Time: 16:50:49

Y axis Post Random Acceptance Unit
SLAC 1847

C:\Wop\MT\Datum\m+p\SLAC\SLAC .15 g 5-2000 Acceptance Y_040.dat