



## DP533-S Test Report

1/10/2003

Product Information	
Model Number	DP533-S
Platform	EATX Form Factor For Intel Socket 603/604 Xeon Processor
Version Number	1.4
BIOS Date code	Dec.26.2002
Driver CD Number	Power Installer II 0251
Chipset Details	
Main Chipset Vendor	Intel
North Bridge	Intel E7505
South Bridge	Intel ICH4+P64H2
I/O Chip Vendor	Winbond W83627HF
Audio Chipset Vendor	AD1981A
LAN Chipset Vendor	Intel RC82540EM
SCSI Chipset Vendor	Adaptec AIC-7902W
1394 Chipset Vendor	TI TSB43AB22
Supports	
1.Support Dual Intel Xeon series CPUs FSB up to 533MHz.	
2.Support Hyper Threading Technology CPUs.	
3.Support Dual Channel DDR Memory up to 8GB.	
4.Support USB 2.0 Interface.	
5.Support AGP 8x/Pro Interface.	
6.Support PCI-X 133MHz/100MHz Interface.	
7.Support Intel Gigabit high speeds Ethernet.	
8.Support Dual Channel Ultra 320 SCSI Interface.	
9.Support 1394 Interface.	
10.Support ZCR RAID Interface.	
Note:	

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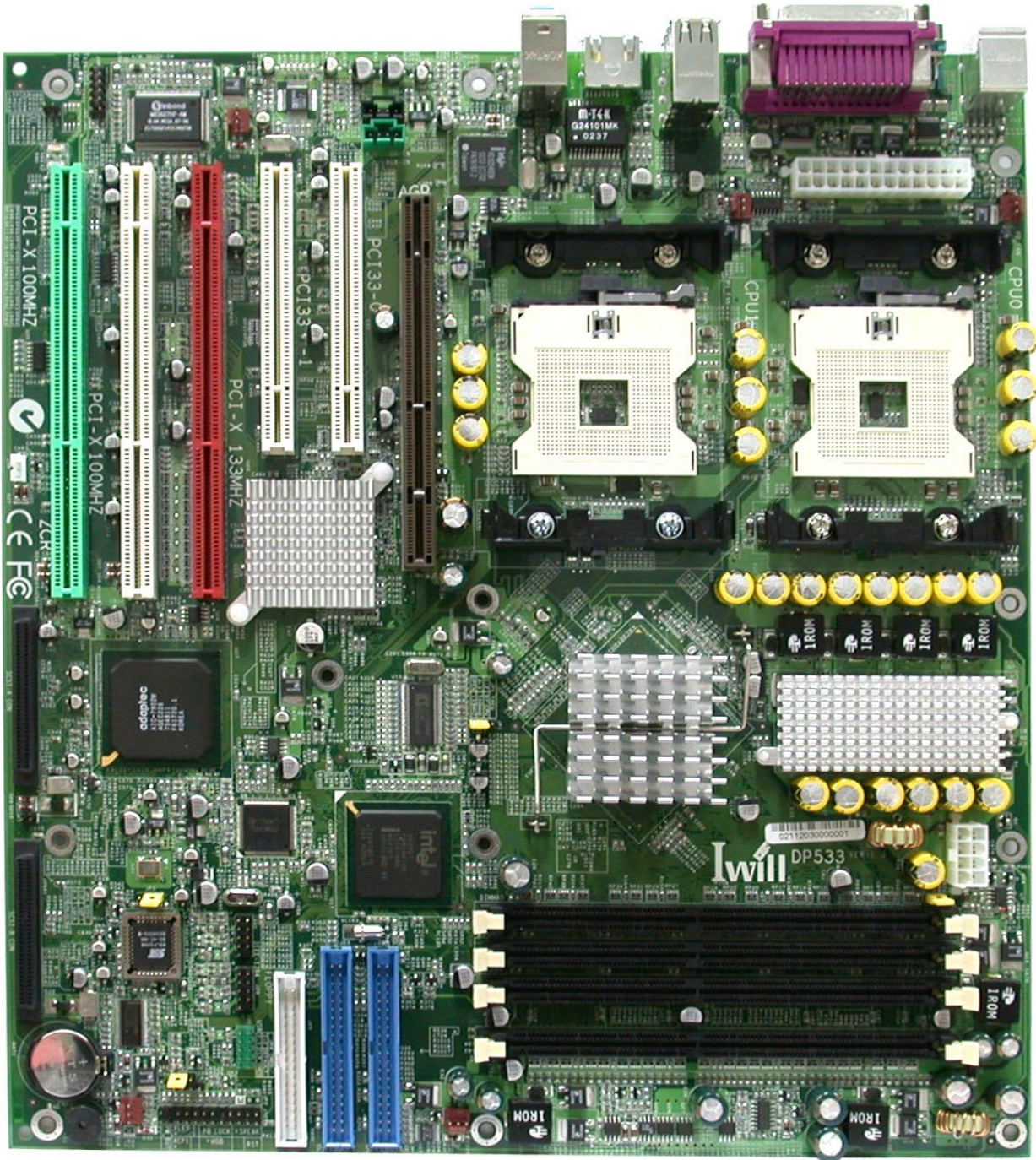


# 1. Hardware Designs Check

## 1.1 Mechanical Review

Board Dimensions

Length 305 mm Width 330 mm





Onboard Layout	Placement		
Screw holes combine with the case.	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Fail	<input type="checkbox"/> None
PS/2 connectors combine with the case.	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Fail	<input type="checkbox"/> None
USB connectors combine with the case.	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Fail	<input type="checkbox"/> None
1394 connectors combine with the case.	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Fail	<input type="checkbox"/> None
COM connectors combine with the case.	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Fail	<input type="checkbox"/> None
LAN connectors combine with the case.	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Fail	<input type="checkbox"/> None
Printer connector combine with the case.	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Fail	<input type="checkbox"/> None
Audio connector combine with the case.	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Fail	<input type="checkbox"/> None
CPU FAN retention holes in the PCB.	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Fail	<input type="checkbox"/> None
AGP slot combine with the case.	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Fail	<input type="checkbox"/> None
PCI slots combine with the case.	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Fail	<input type="checkbox"/> None
Front Panel Connectors combine with the case.	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Fail	<input type="checkbox"/> None
Power connector placement.	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Fail	<input type="checkbox"/> None
HDD connector placement.	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Fail	<input type="checkbox"/> None
SCSI ports connector placement.	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Fail	<input type="checkbox"/> None
FDD connector placement.	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Fail	<input type="checkbox"/> None
CD-in connector placement.	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Fail	<input type="checkbox"/> None
WOL connector placement.	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Fail	<input type="checkbox"/> None
CPU FAN connector placement.	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Fail	<input type="checkbox"/> None
System FAN connector placement.	<input checked="" type="checkbox"/> Ok	<input type="checkbox"/> Fail	<input type="checkbox"/> None

Note:

### 1.2 Power Voltage Measurement

Voltage List	Voltage SPEC	Measured Value	Pass/Fail
Battery Voltage	3.0V	3.24	Pass
Battery Current	5uA	5.58	Pass
+5V	5.0V+-5%	5.24	Pass
+12V	12.0V+-5%	12.27	Pass
-5V	-5.0V+-5%	-5.01	Pass
-12V	-12.0V+-10%	-12.42	Pass
+3.3V	+3.3V+-5%	3.44	Pass
+5VSB	5.0V+-5%	4.90	Pass
+3.3VSB	+3.3V+-5%	3.44	Pass
Clock Frequency	Spec Value (MHz)	Measured Value (MHz)	Pass/Fail
CPU Host Clock	100	100.0	Pass
	133	132.3	Pass
DRAM Clock	100	100.0	Pass
	133	133.0	Pass
PCI Clock	33	33.33	Pass
AGP Clock	66.67	66.67	Pass

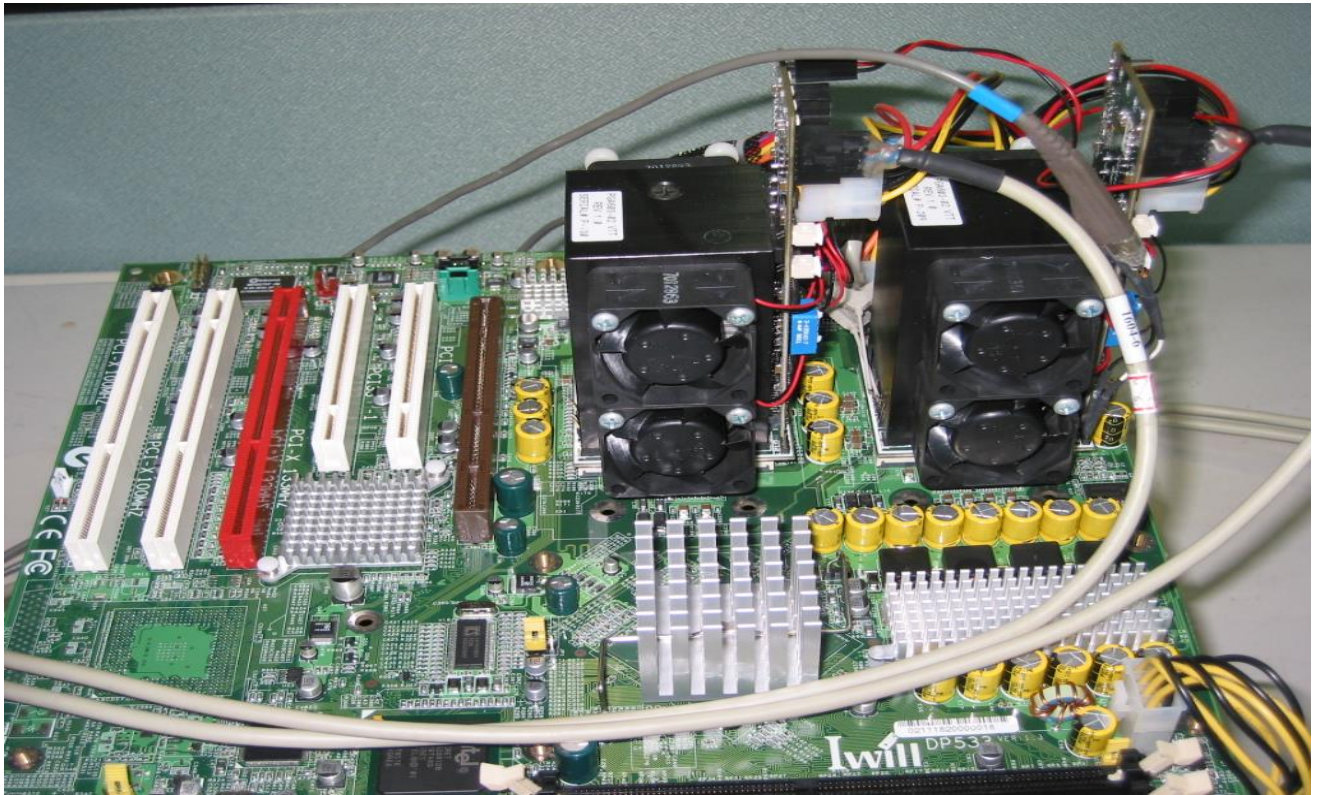


Reference Clock	14.318	14.33	Pass
Note:			



## 2. Transient Test (CPU Vcore)

Finished Date: 12/25/2002



VTT -- COM PORT 1 -- PGA603-2

File Help

**Master Controls**

Detect VTT

Internal Clock Source Selected...  
Click to Change

---

**PARAMETERS**

**CURRENT**

Icc / Icc Max (A)      65.0 Amps

Icc Min (A)            -0.1 Amps

**VOLTAGE**

VcoreNorth (V)        1.490 Volts

VcoreSouth (V)        1.492 Volts

VID Pullup (V)        3.528 Volts

**VTT 1 Controls**

Mode

AC    DC

VID

Set       OFF

Actual   1.500

---

**DATA READOUTS**

**VTT 1**

**Icc Controls**

VTT 1 - AC Mode

Icc Max:  (Amps)      

Icc Min:                                    

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**Instructions**

-- Icc / Icc Max / Icc Min Controls --

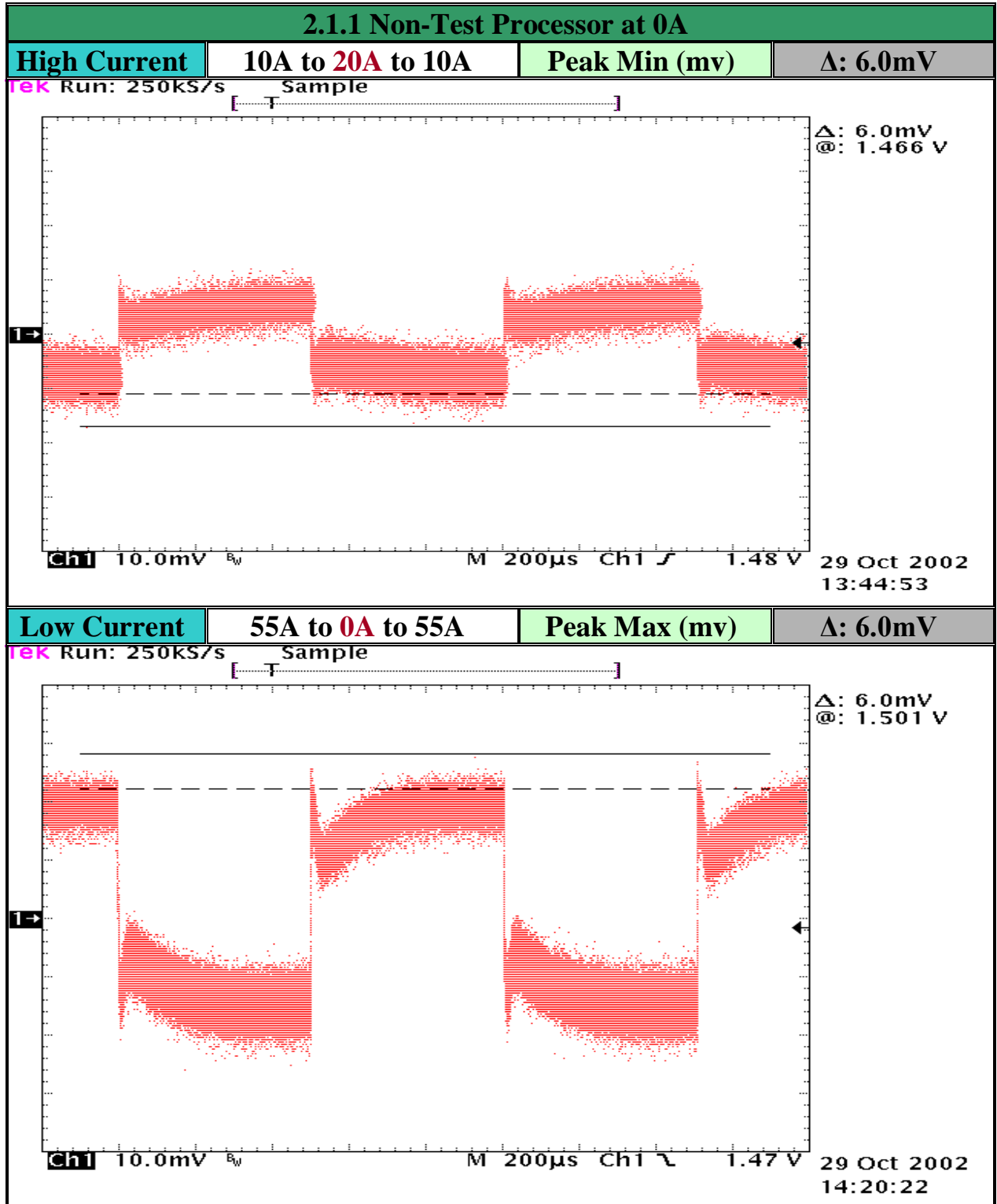
The top slider and buttons adjust static Icc current when in DC mode, and Icc Max when in AC mode.

The bottom slider and buttons adjust Icc Min when in AC mode, and are disabled in DC mode.

If you use the keyboard cursor keys to move the slider, no message is sent to the VTT tool; you must either click and release the slider thumb, or use the fine adjust buttons located to the right of the slider.



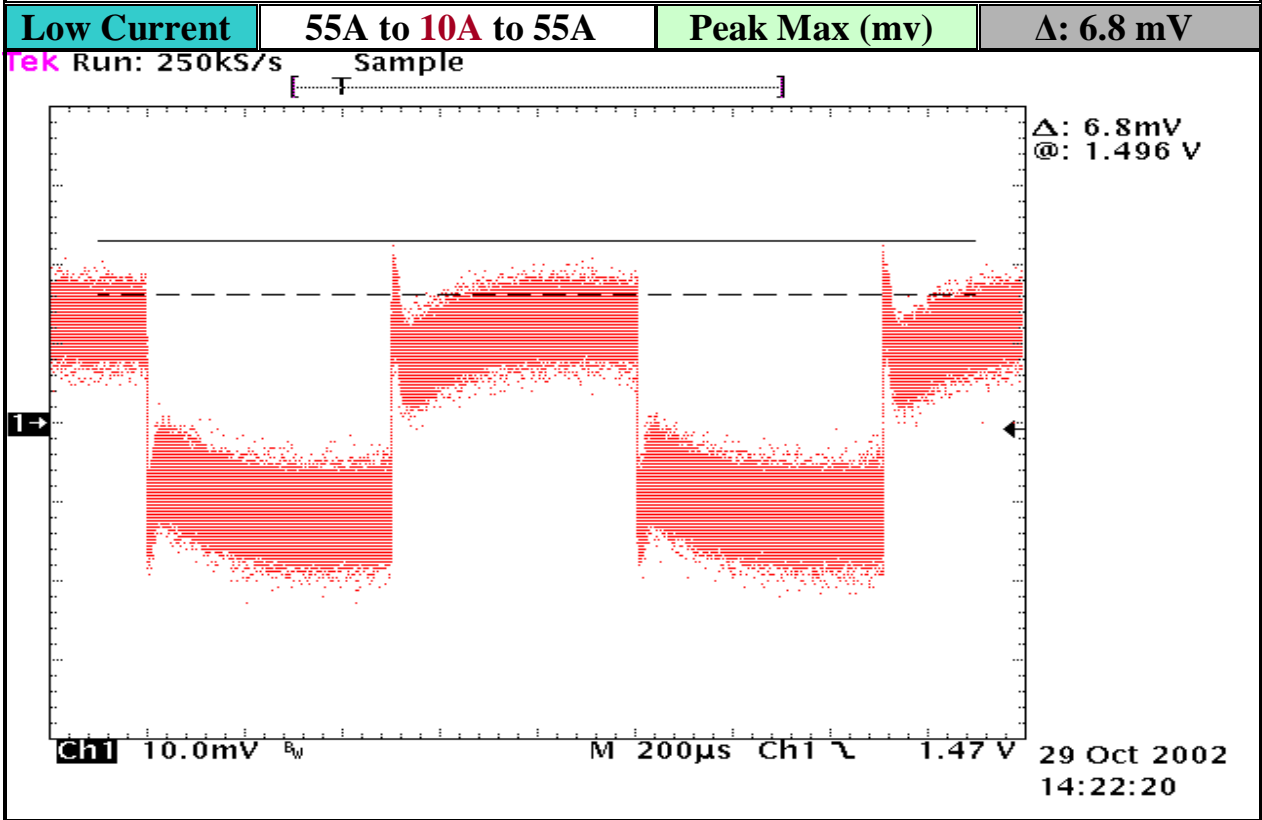
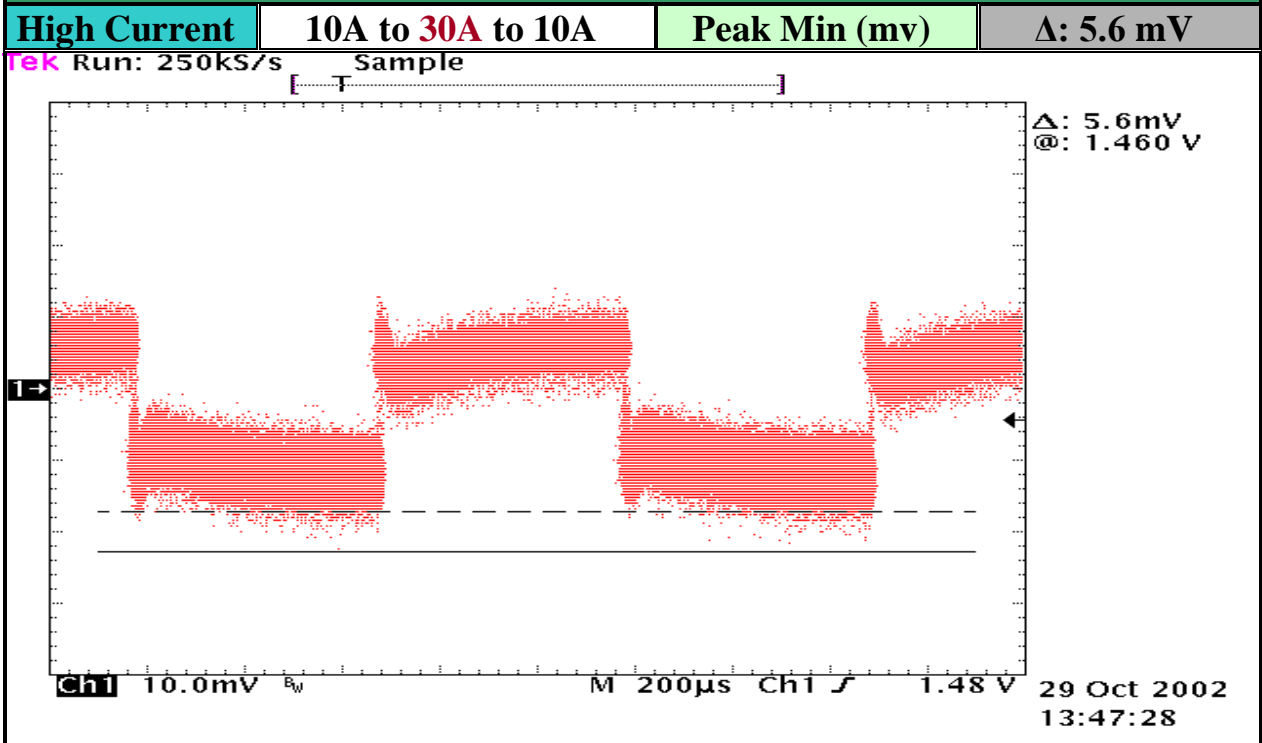
## 2.1 Second Processor Load 0A





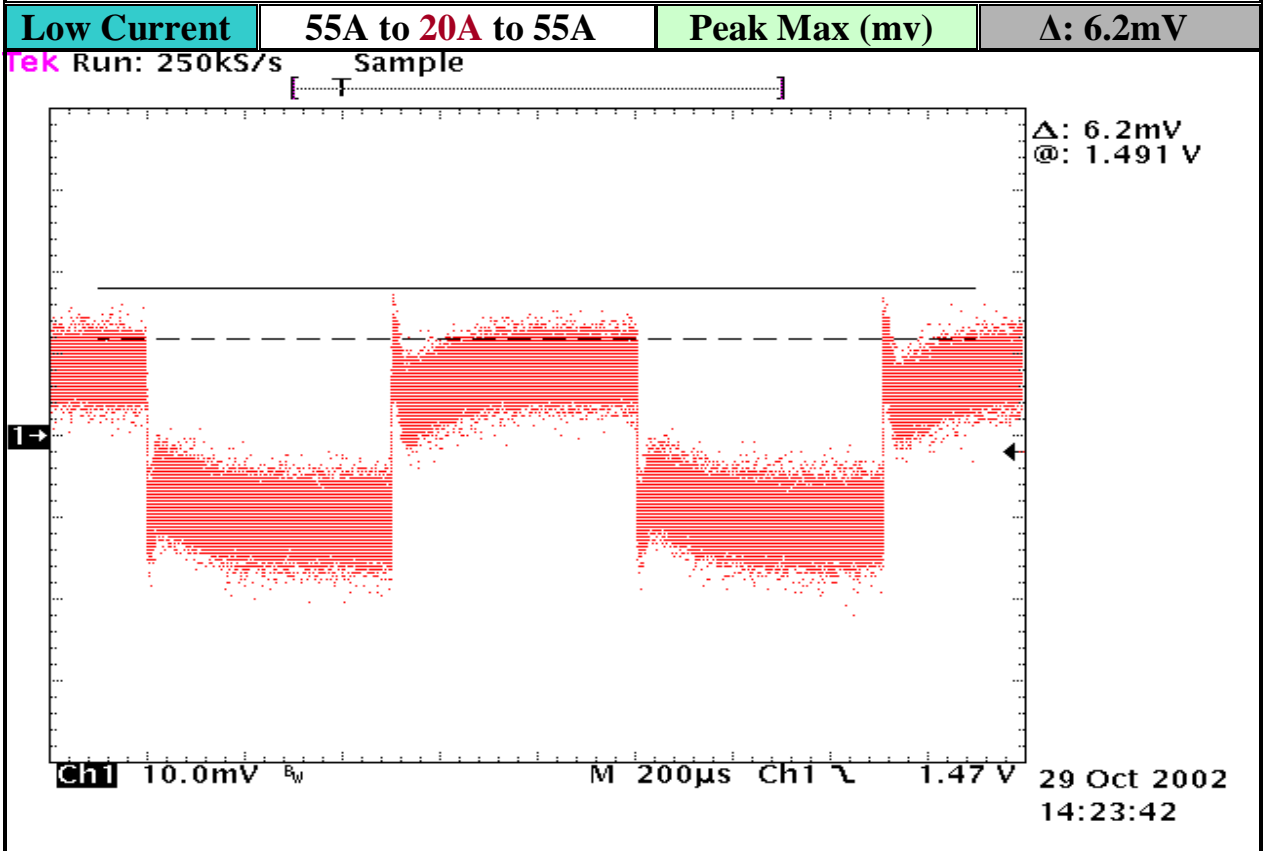
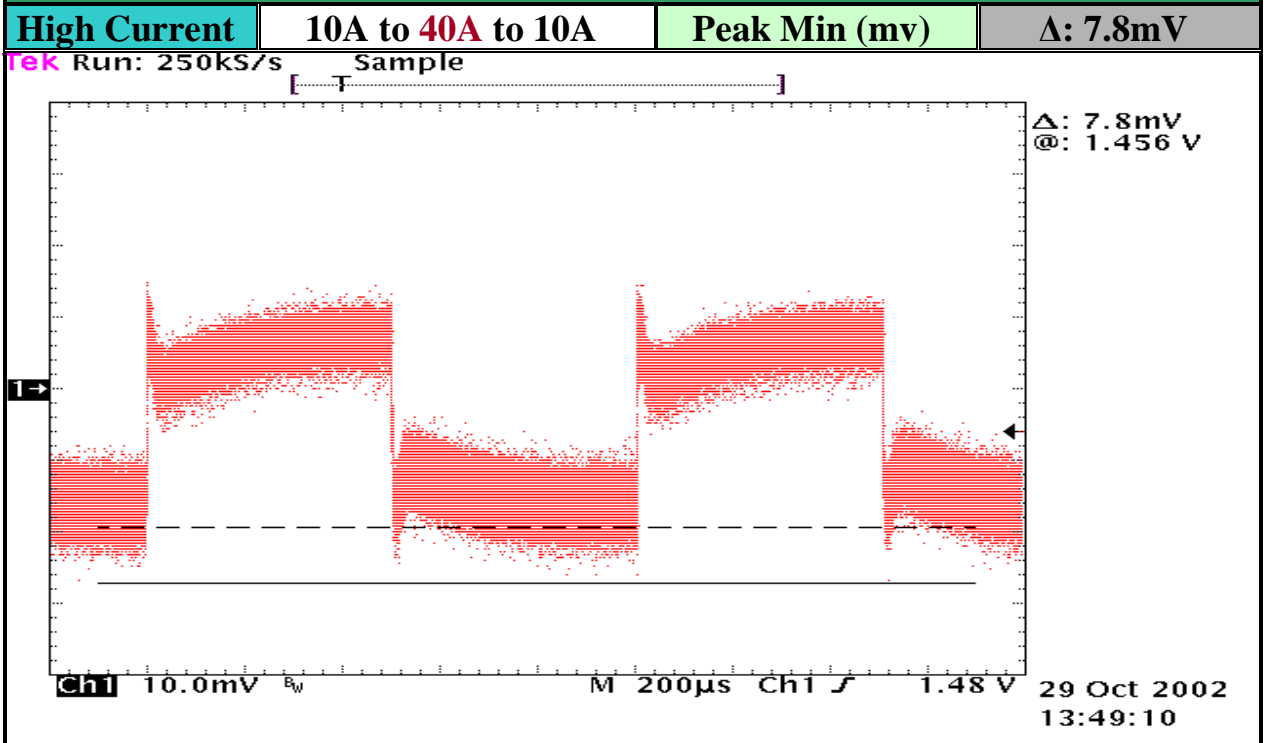


**2.1.2 Non-Test Processor at 0A**



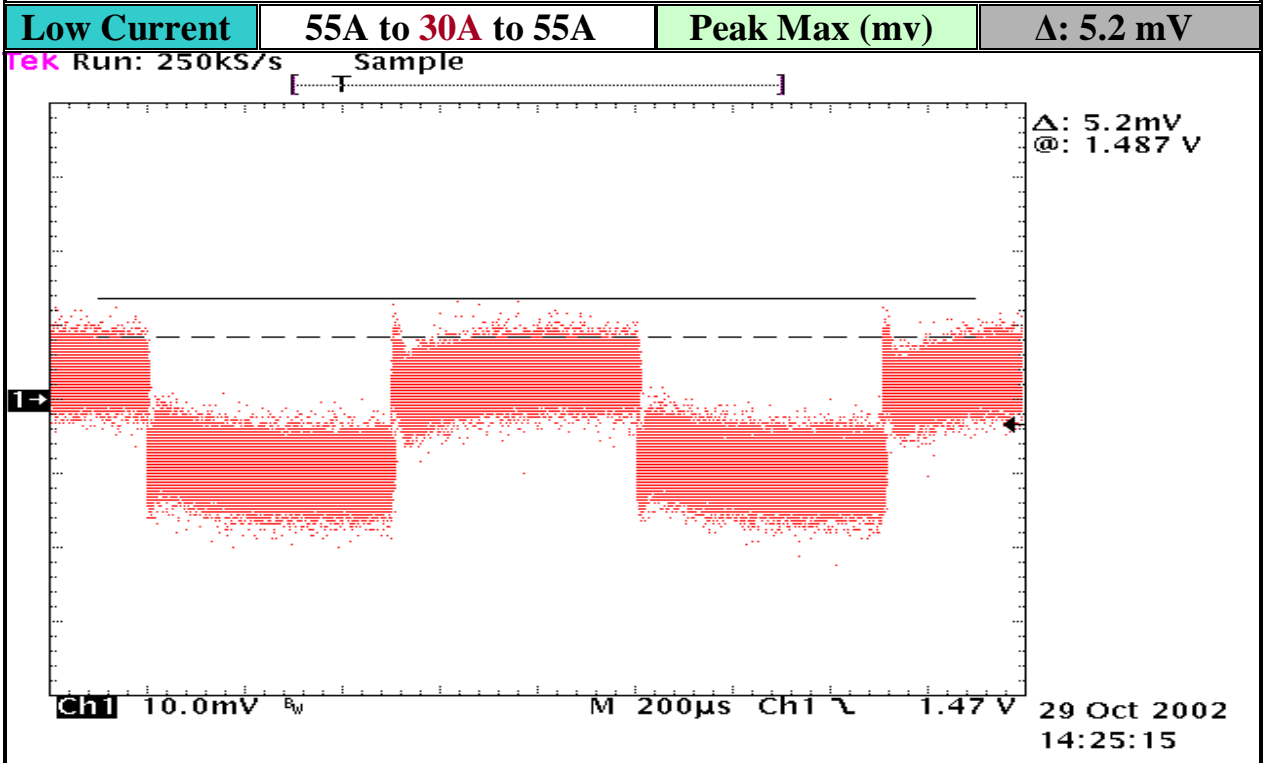
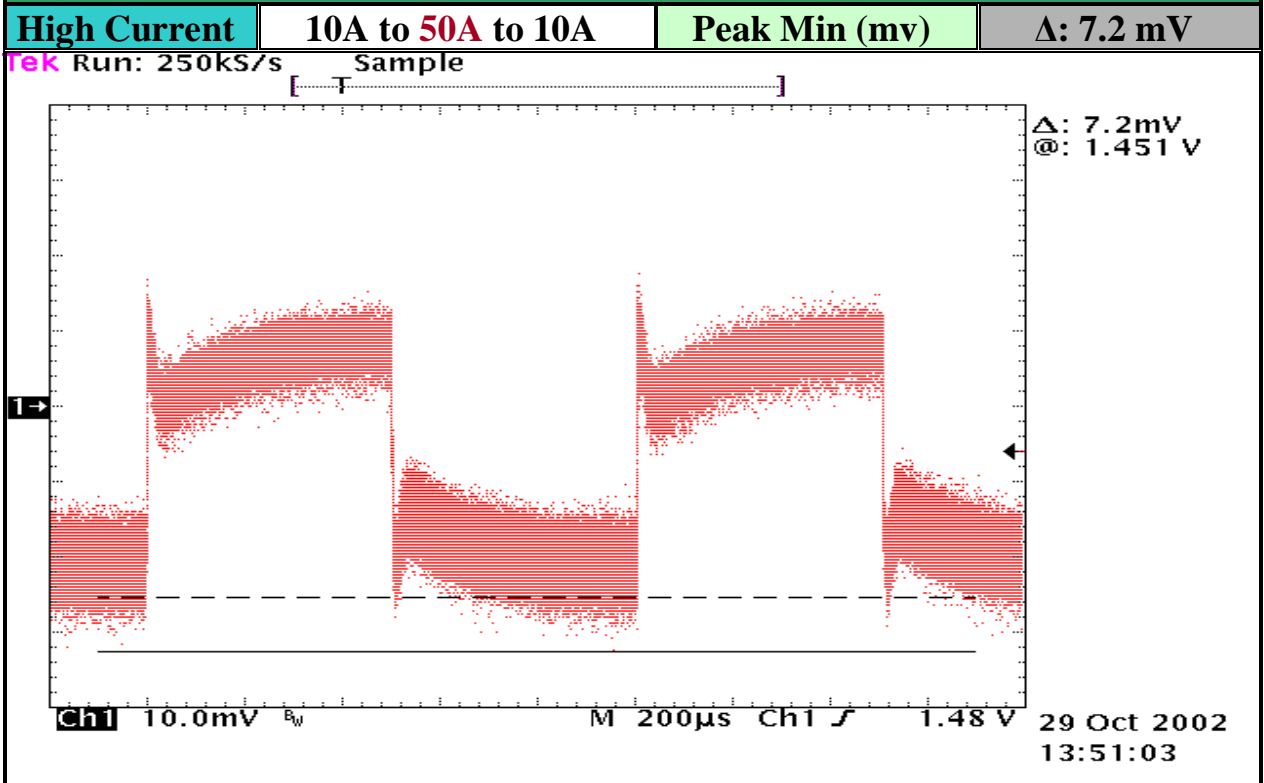


**2.1.3 Non-Test Processor at 0A**





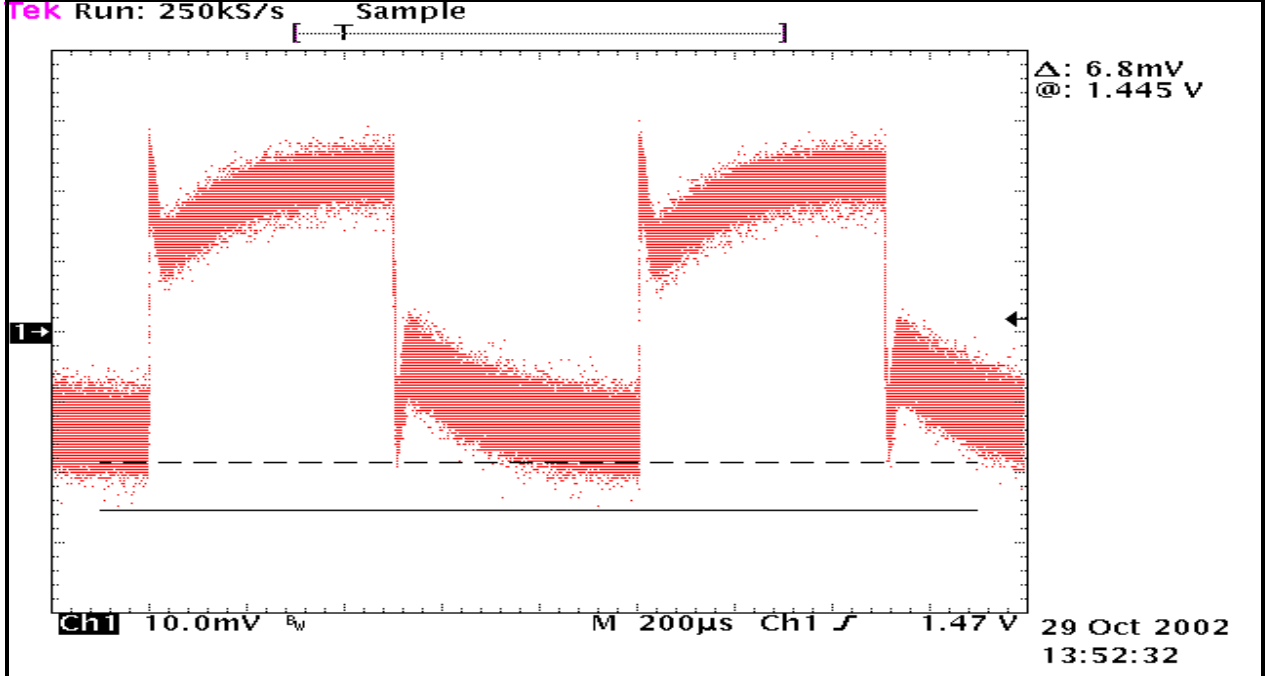
**2.1.4 Non-Test Processor at 0A**



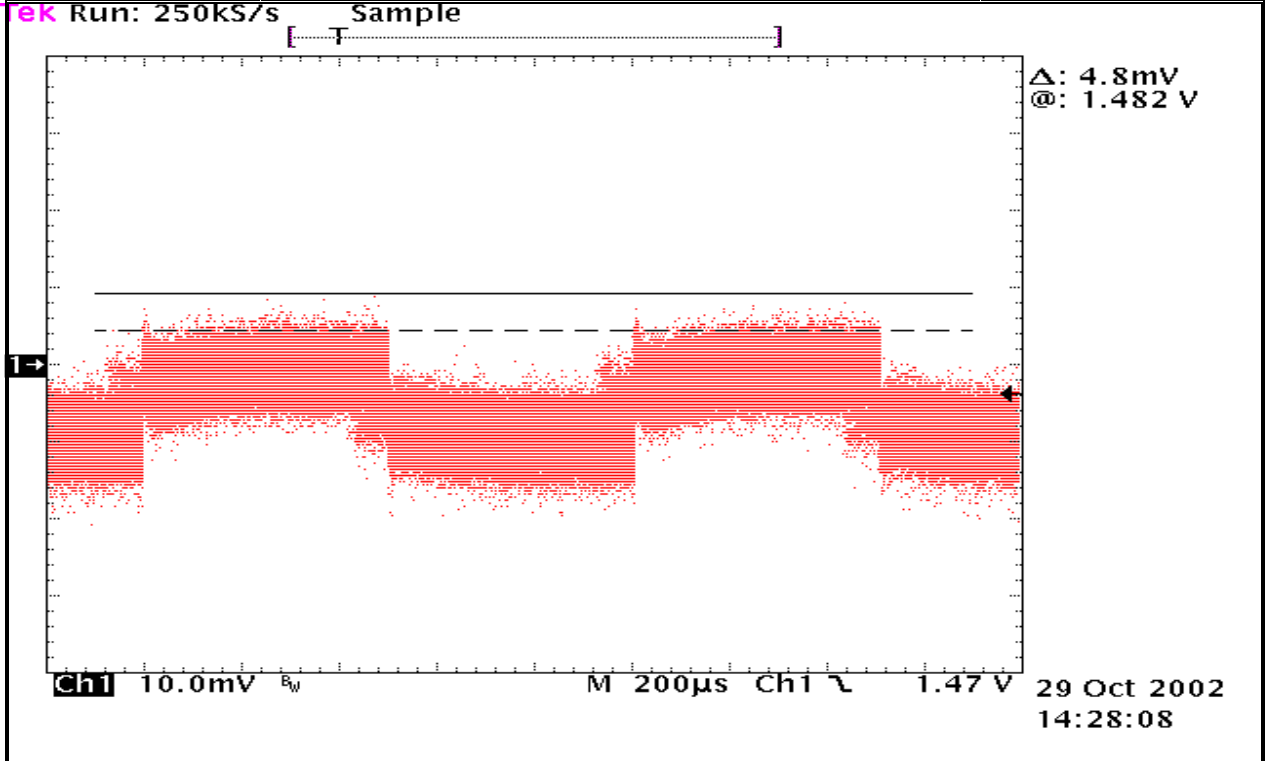


**2.1.5 Non-Test Processor at 0A**

<b>High Current</b>	<b>10A to 60A to 10A</b>	<b>Peak Min (mv)</b>	<b>Δ: 6.8 mV</b>
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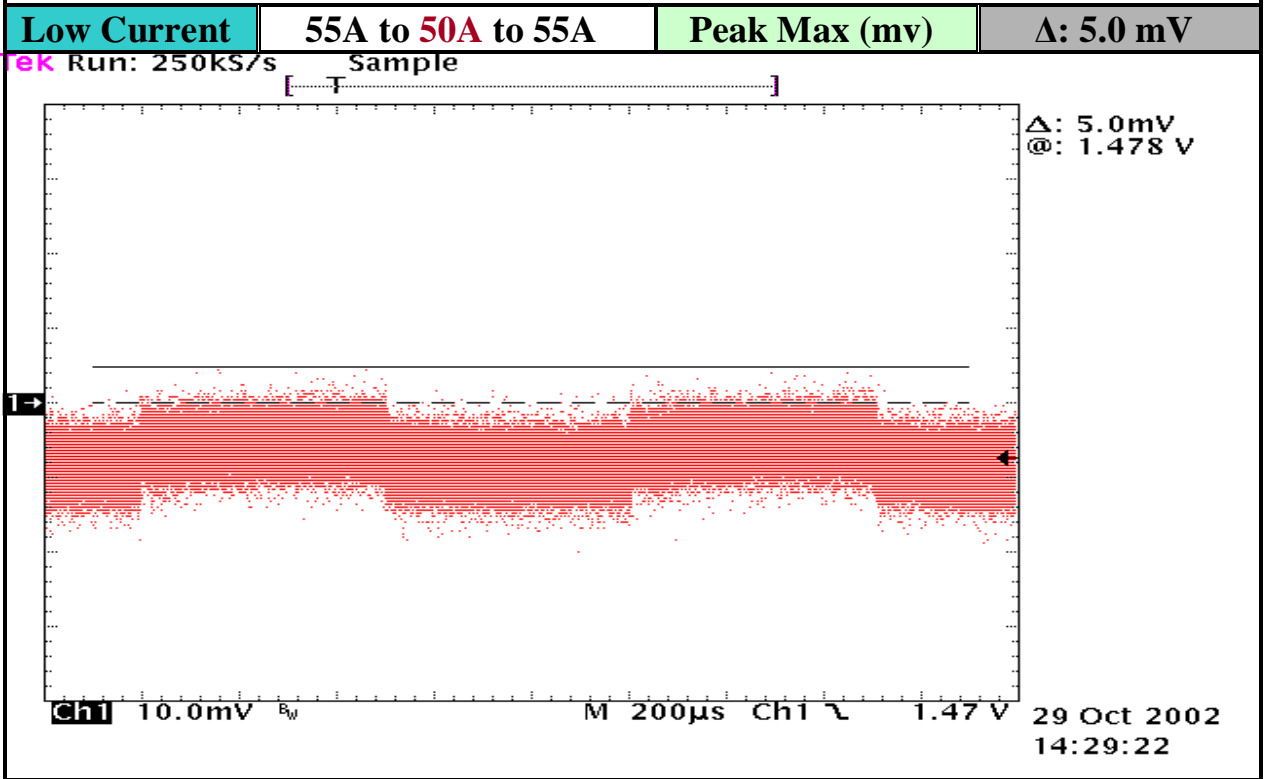
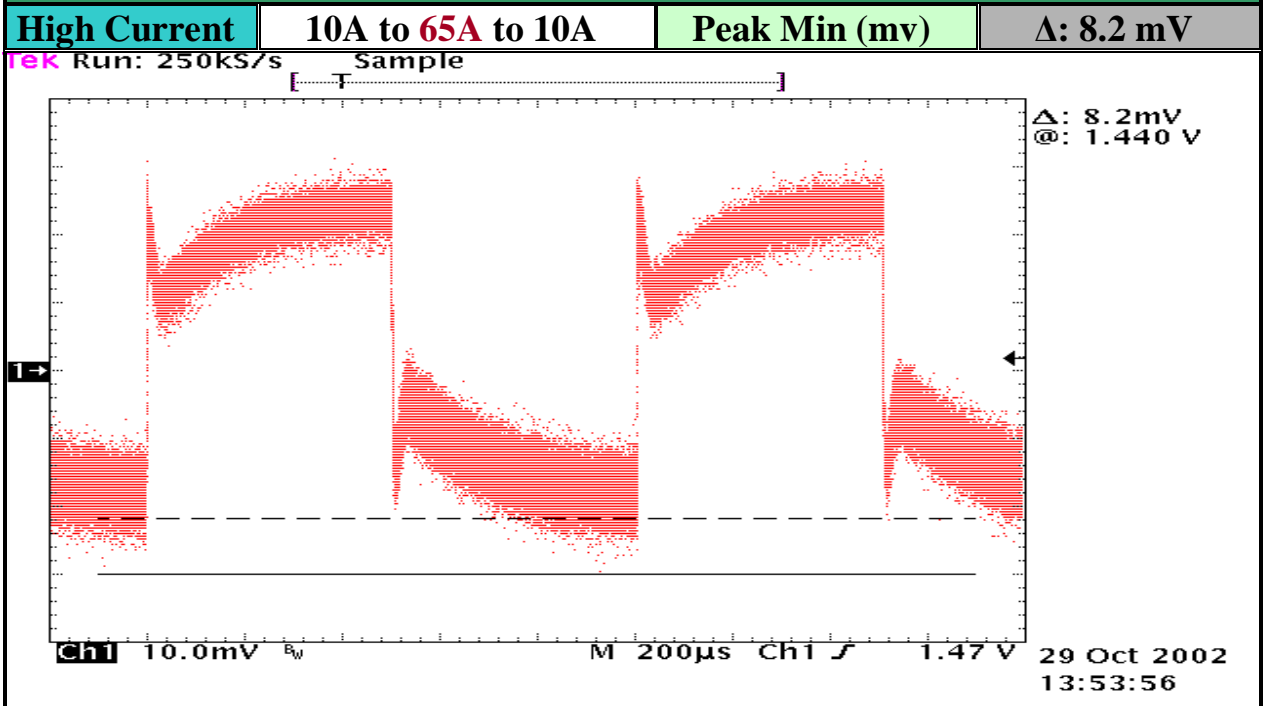


<b>Low Current</b>	<b>55A to 40A to 55A</b>	<b>Peak Max (mv)</b>	<b>Δ: 4.8 mV</b>
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**2.1.6 Non-Test Processor at 0A**



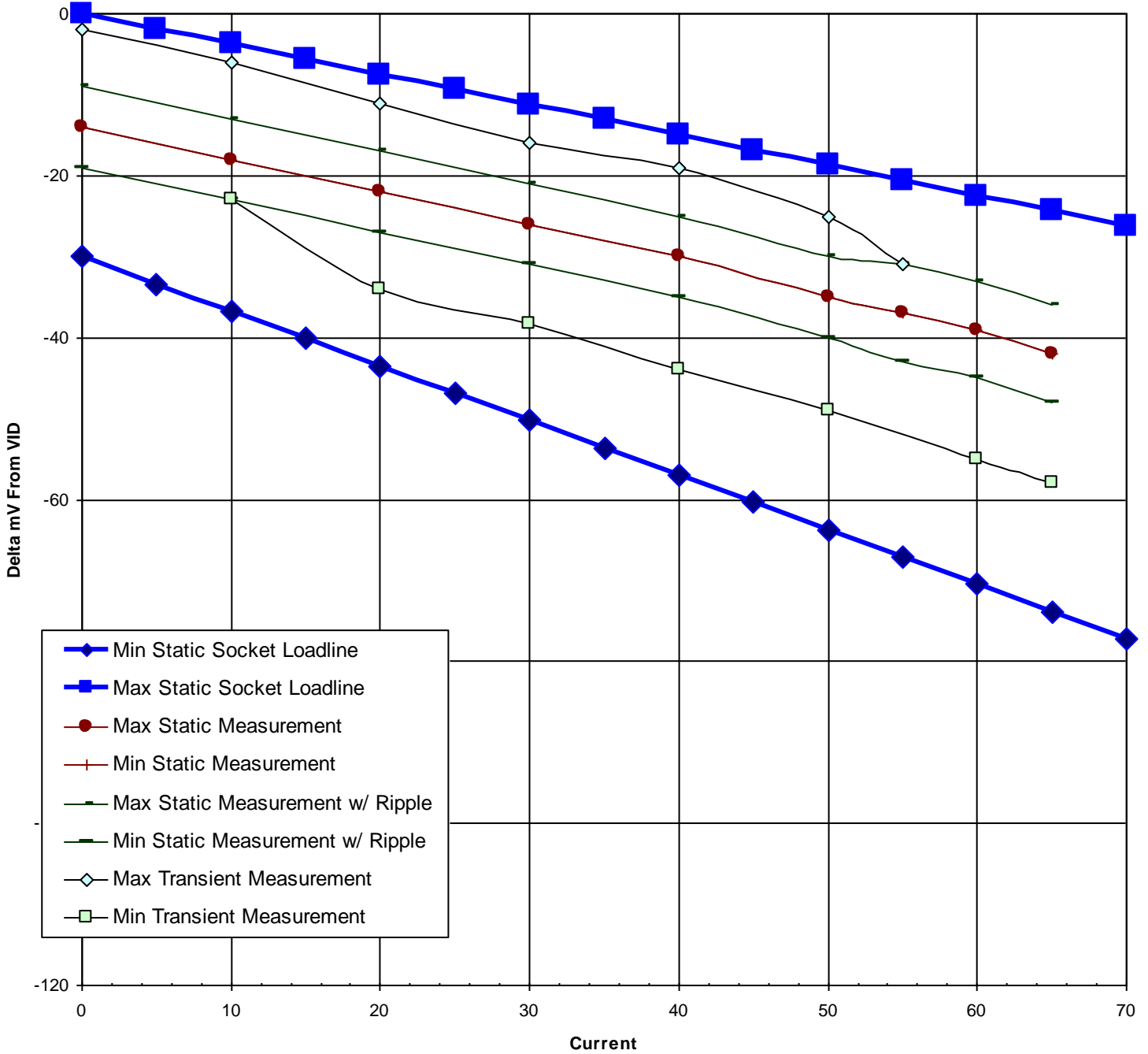


Static Voltage Measurements			Peak to Peak Ripple Voltage Measurements (mV)	
Test Processor Current	Measured North Field Static Voltage 2nd Processor at 0 A	Measured South Field Static Voltage 2nd Processor at 0 A	Measured North Field Voltage Non-Test Processor at 0 A	
			Peak Positive	Peak Negative
0	1.486	1.486	5	5
10	1.482	1.482	5	5
20	1.478	1.478	5	5
30	1.474	1.474	5	5
40	1.470	1.470	5	5
50	1.465	1.465	5	5
55	1.463	1.463	6	6
60	1.461	1.461	6	6
65	1.458	1.458	6	6

Transient Min (mV) Increasing Load Step Size		Transient Min (mV) Decreasing Load Step Size	
Load Step (All Processors)	Measured North Field Voltage Non-Test Processor at 0 A	Load Step (All Processors)	Measured North Field Voltage Non-Test Processor at 0 A
	Peak Min		Peak Max
10 A to 10 A to 10 A	0	55 A to 0 A to 55 A	7
10 A to 20 A to 10 A	7	55 A to 10 A to 55 A	7
10 A to 30 A to 10 A	7	55 A to 20 A to 55 A	6
10 A to 40 A to 10 A	9	55 A to 30 A to 55 A	5
10 A to 50 A to 10 A	9	55 A to 40 A to 55 A	6
10 A to 60 A to 10 A	10	55 A to 50 A to 55 A	5
10 A to 65 A to 10 A	10	55 A to 55 A to 55 A	0

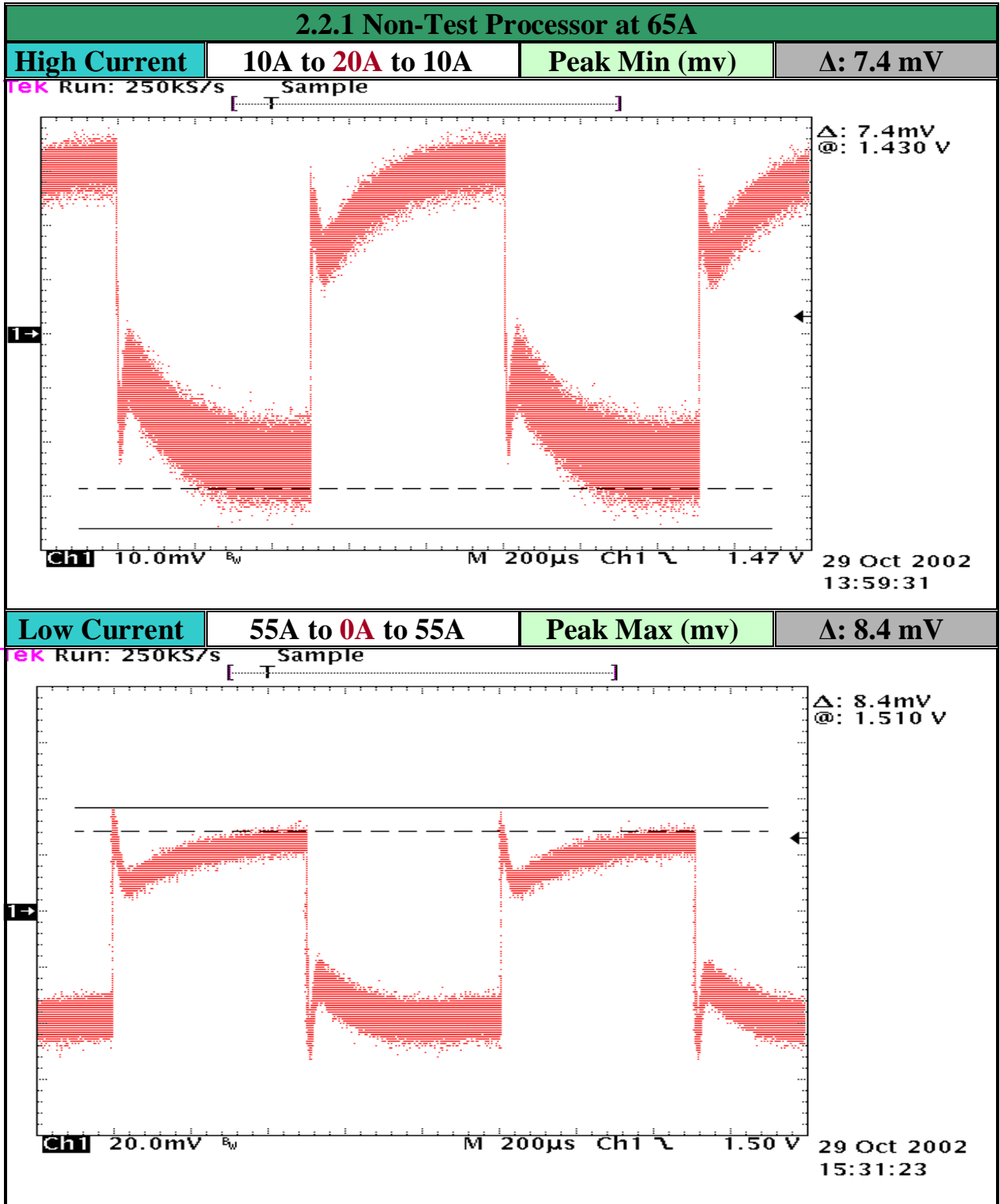


Intel Xeon Processor with 512 KB L2 Cache Loadline Validation  
Actual Loadline Chart - 2nd Processor at 0A





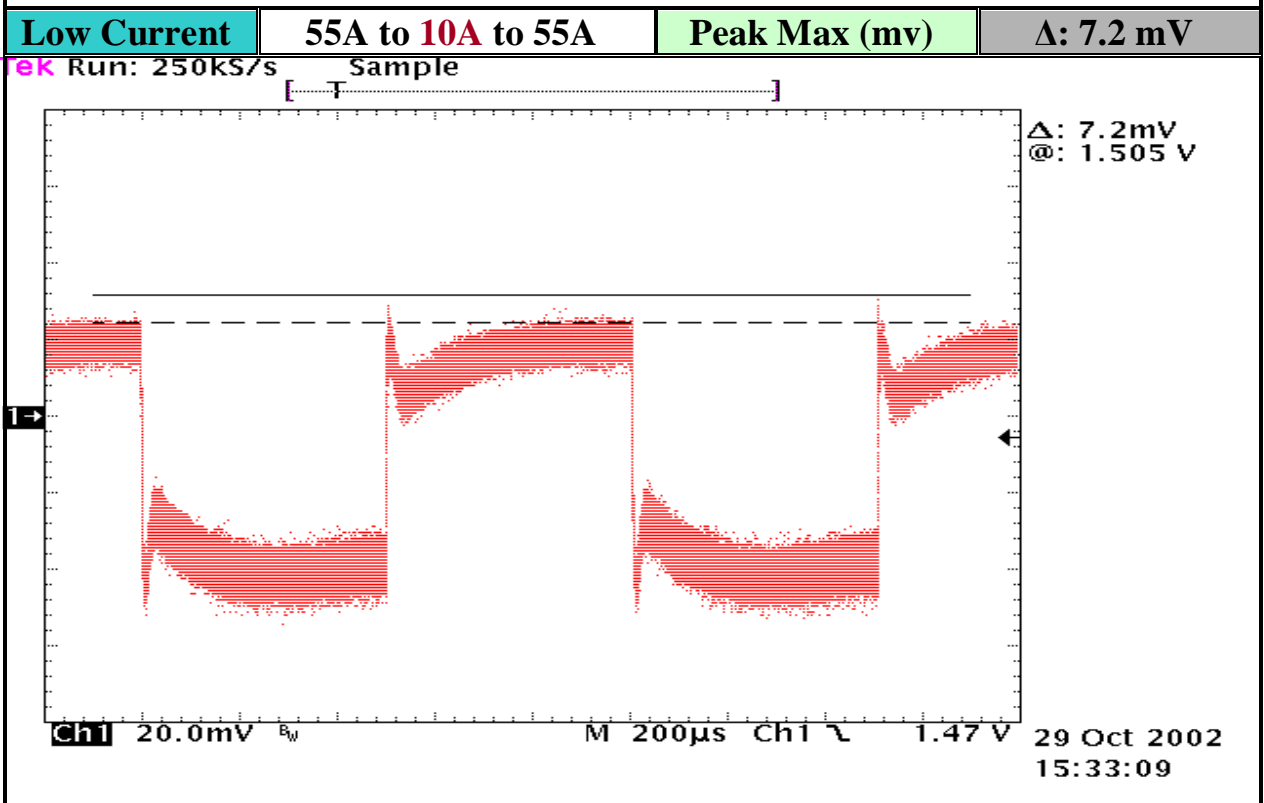
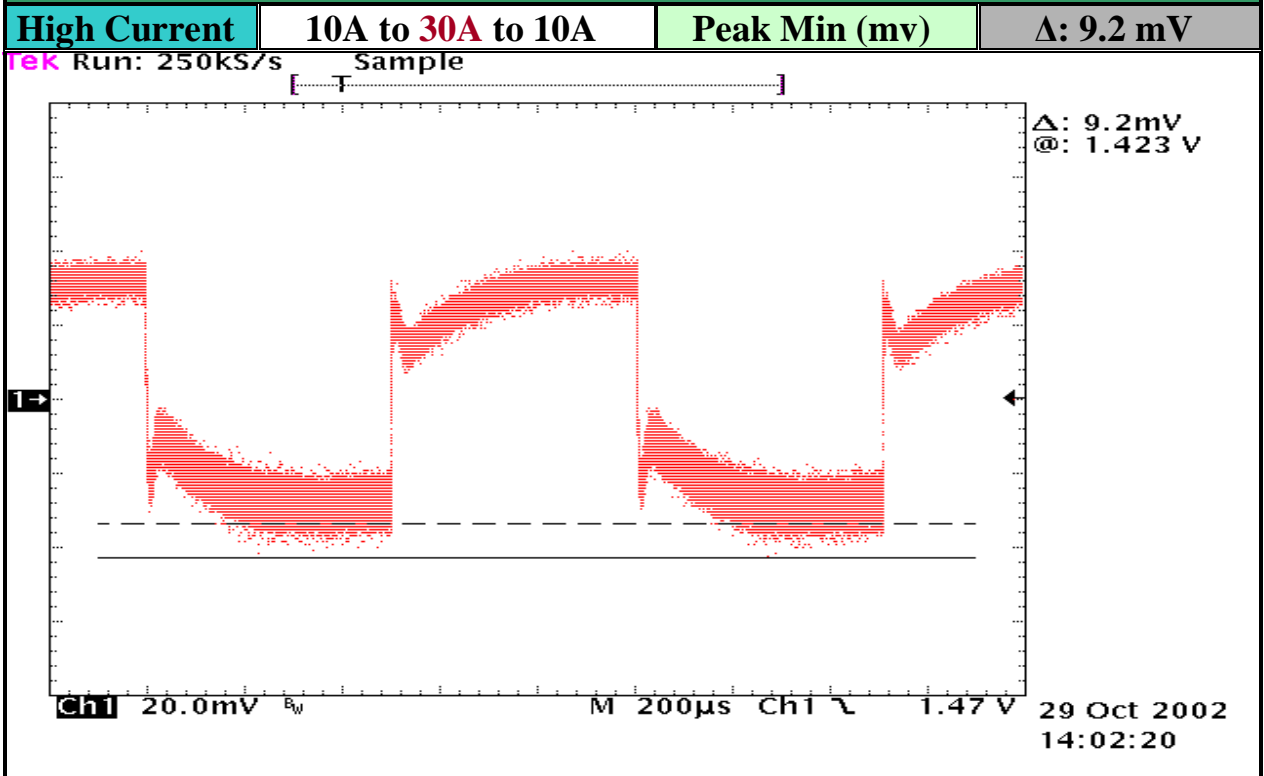
## 2.2 Second Processor Load 65A





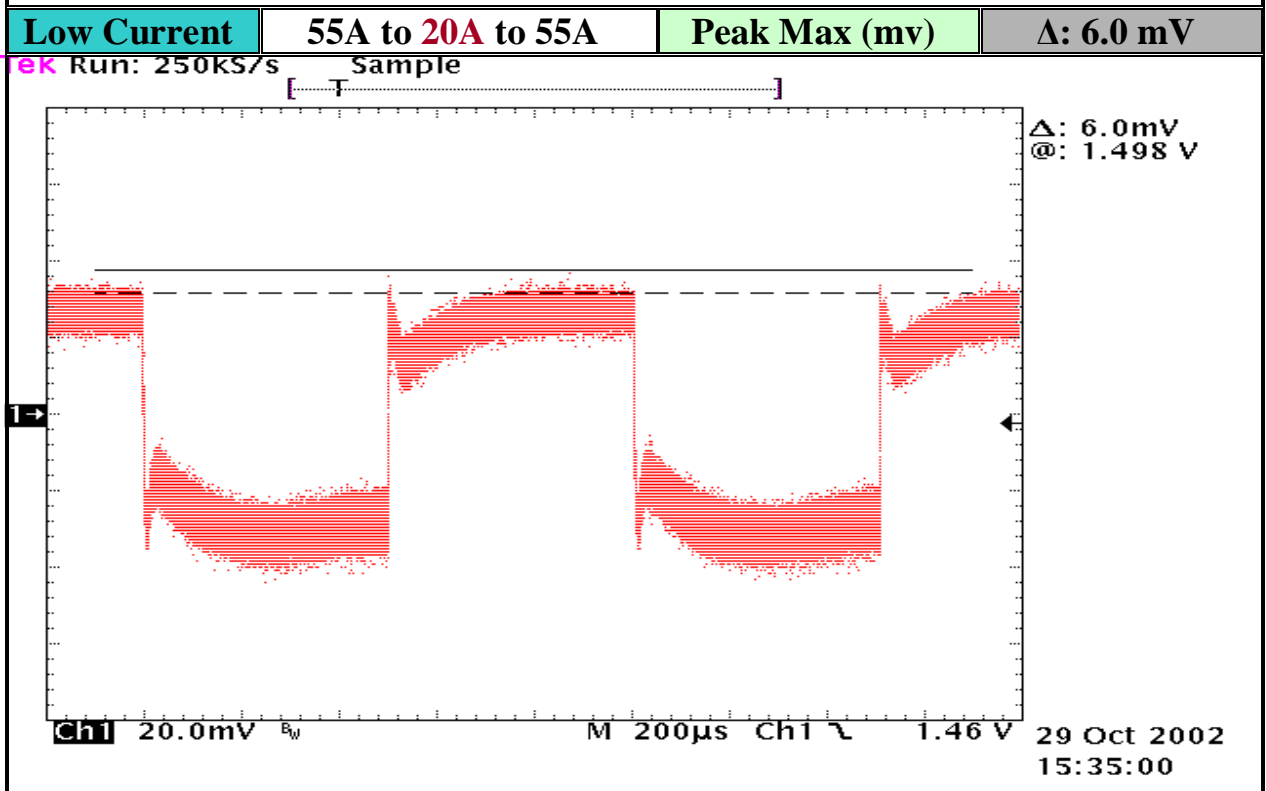
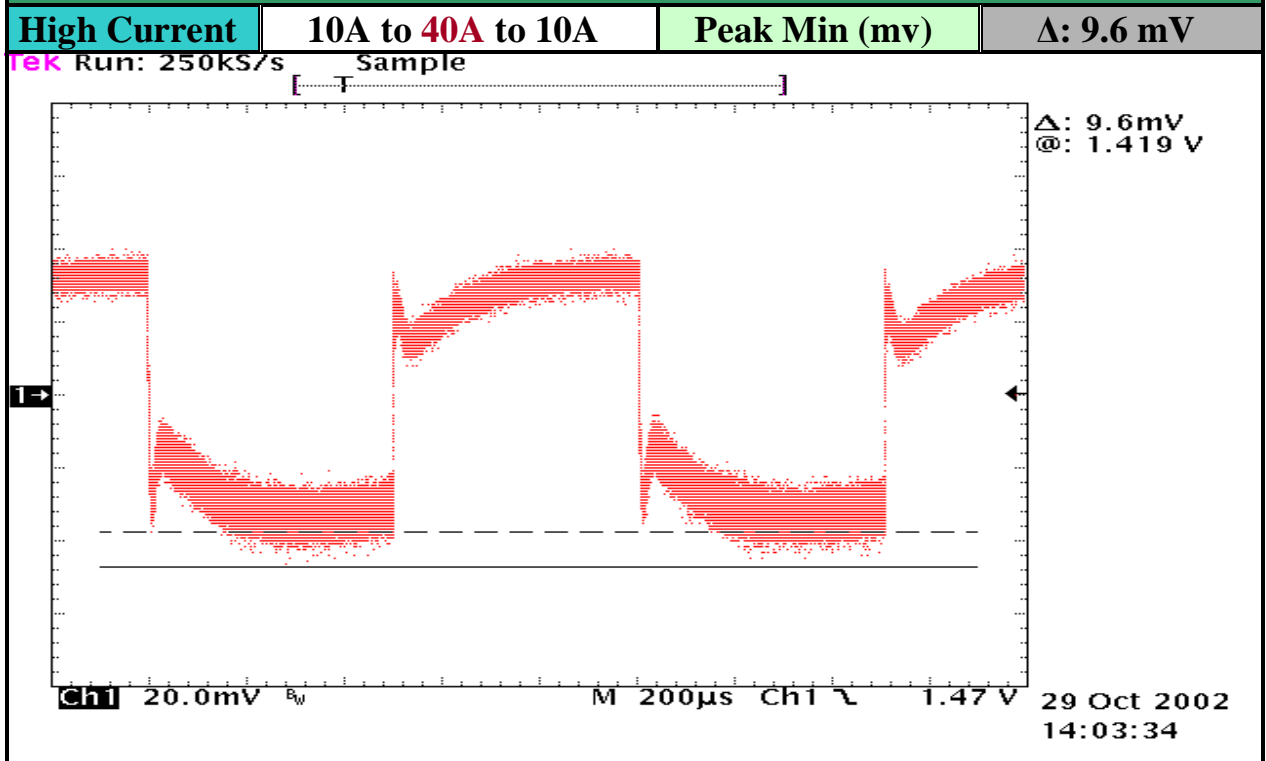


**2.2.2 Non-Test Processor at 65A**



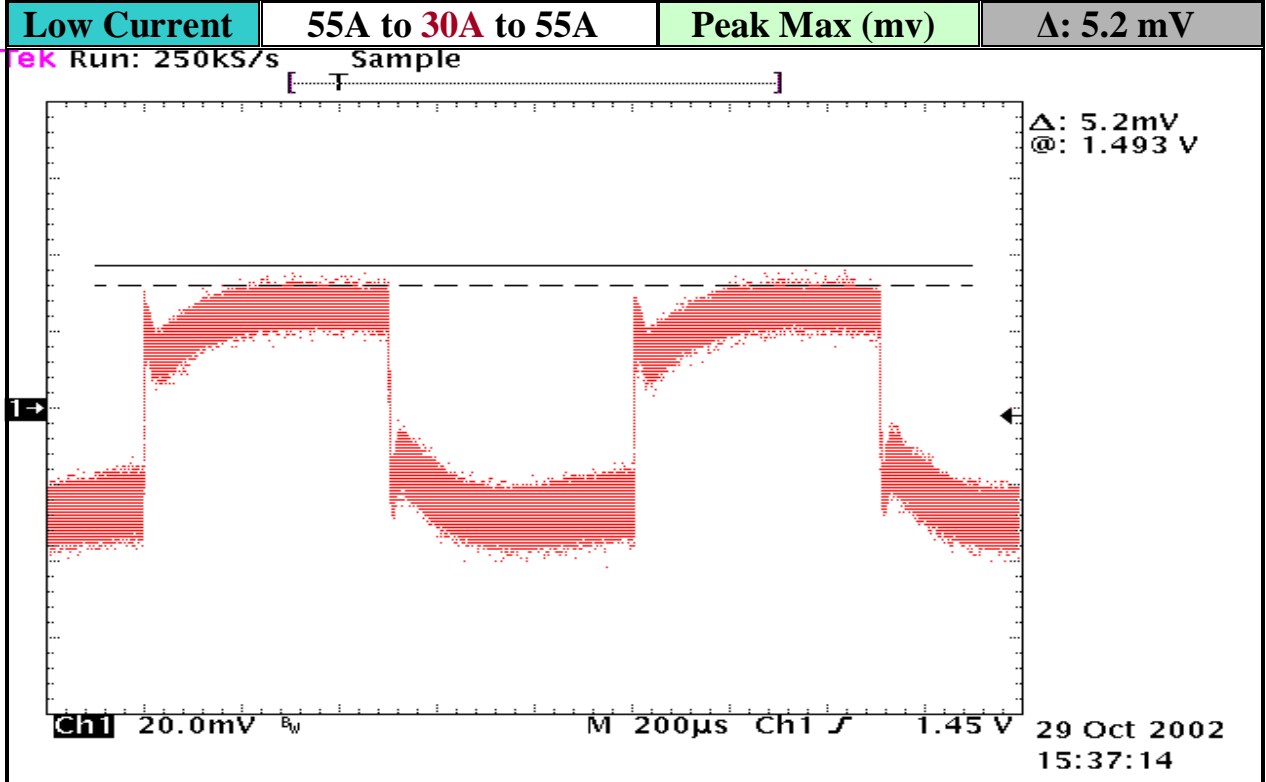
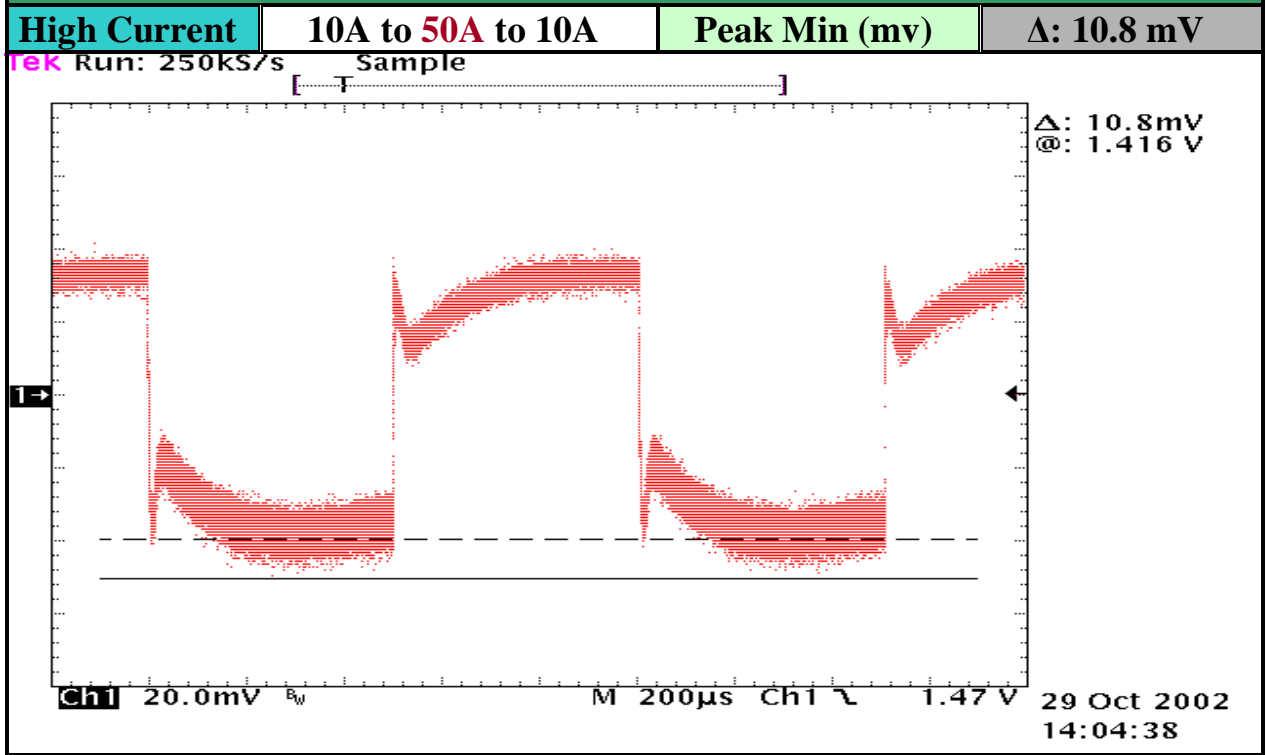


**2.2.3 Non-Test Processor at 65A**



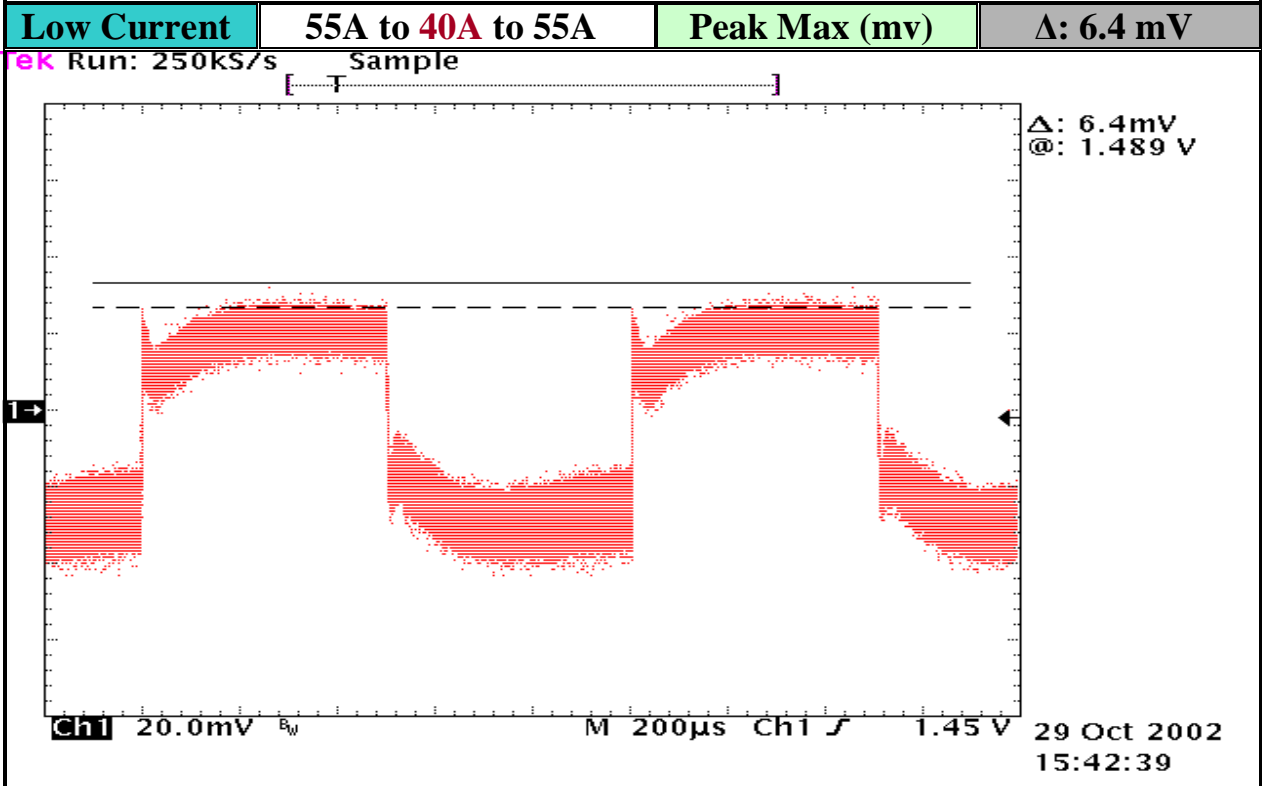
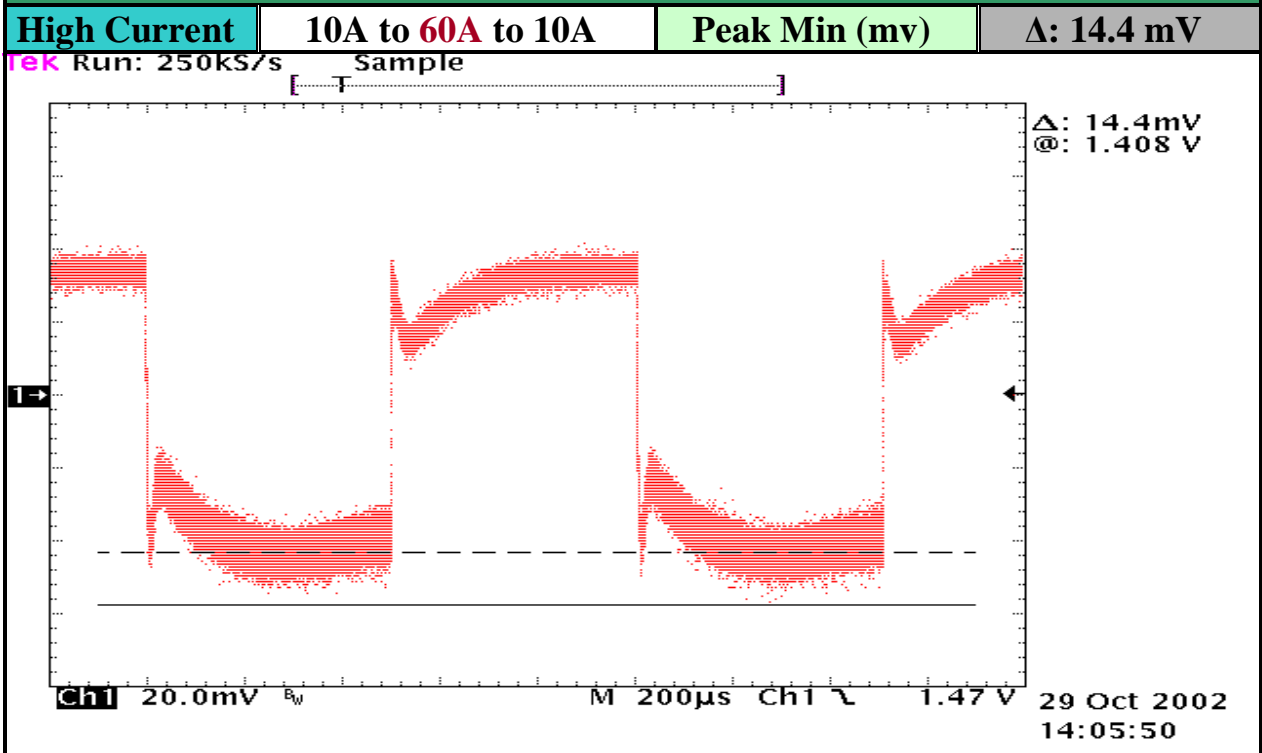


**2.2.4 Non-Test Processor at 65A**



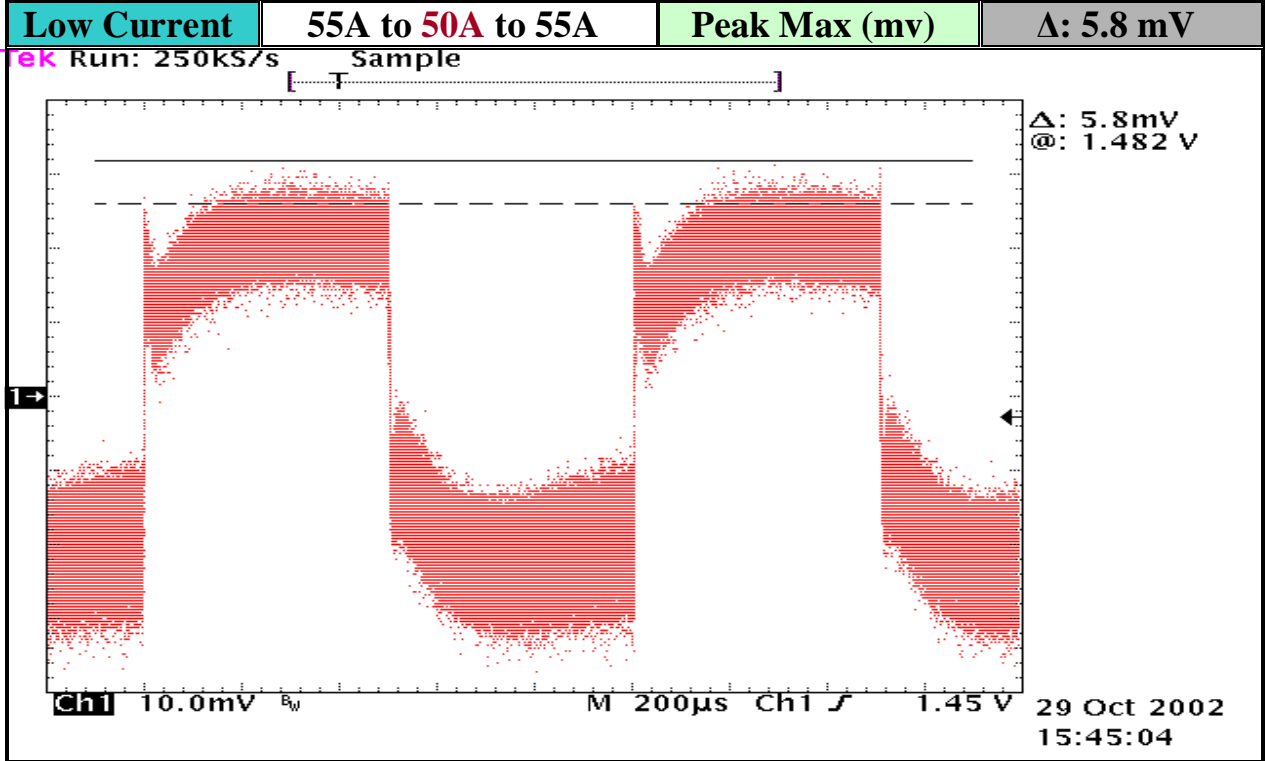
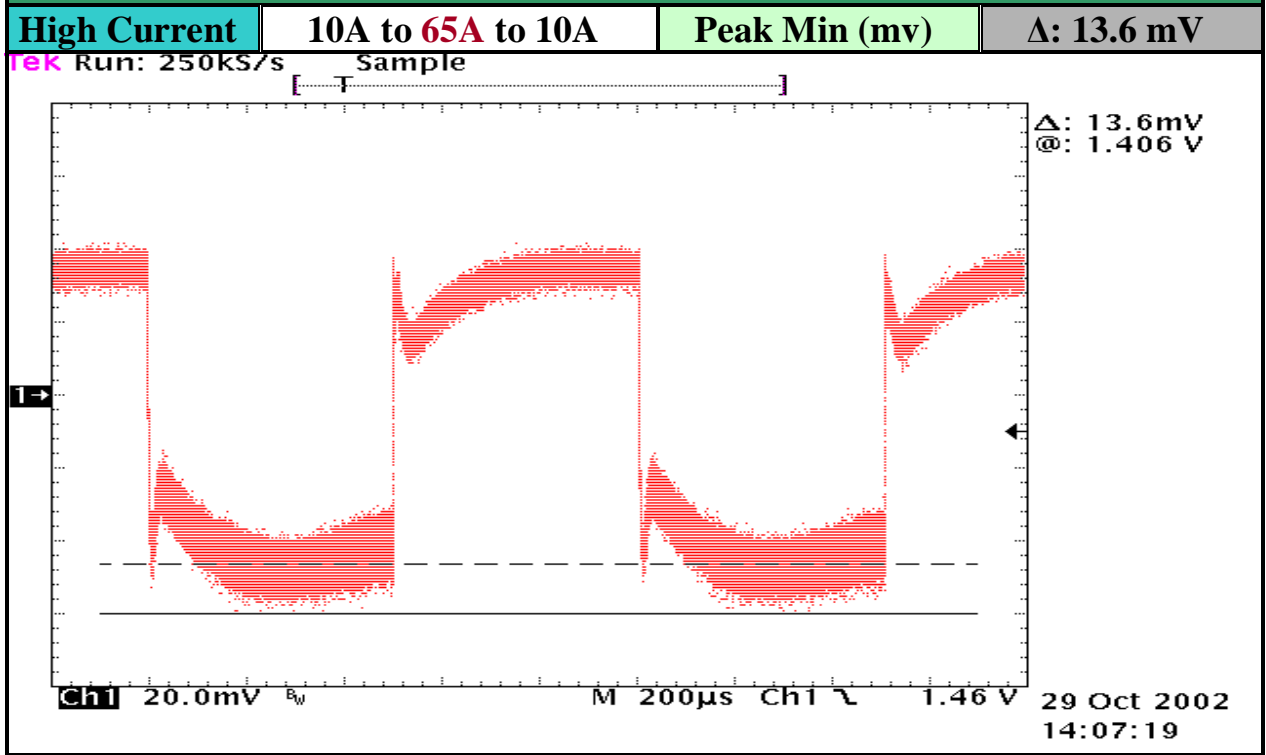


**2.2.5 Non-Test Processor at 65A**





**2.2.6 Non-Test Processor at 65A**



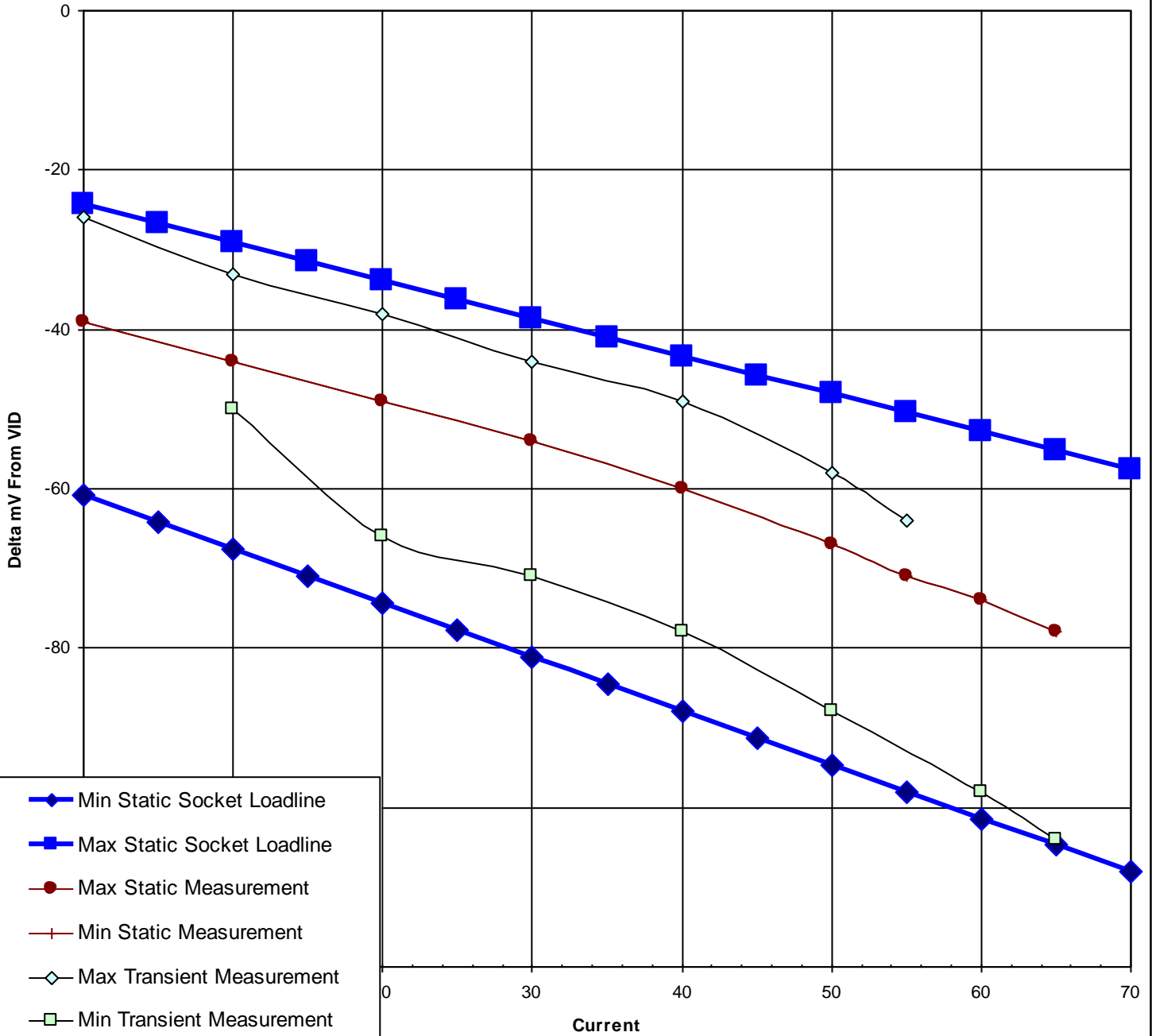


Static Voltage Measurements			Peak to Peak Ripple Voltage Measurements (mV)	
Test Processor Current	Measured North Field Static Voltage 2nd Processor at 65 A	Measured South Field Static Voltage 2nd Processor at 65 A	Measured North Field Voltage Non-Test Processor at 65 A	
			Peak Positive	Peak Negative
0	1.461	1.461	5	5
10	1.456	1.456	6	6
20	1.451	1.451	6	6
30	1.446	1.446	6	6
40	1.440	1.440	6	6
50	1.433	1.433	6	6
55	1.429	1.429	7	7
60	1.426	1.426	7	7
65	1.422	1.422	8	8

Transient Min (mV) Increasing Load Step Size		Transient Min (mV) Decreasing Load Step Size	
Load Step (All Processors)	Measured North Field Voltage Non-Test Processor at 65 A	Load Step (All Processors)	Measured North Field Voltage Non-Test Processor at 65 A
	Peak Min		Peak Max
10 A to 10 A to 10 A	0	55 A to 0 A to 55 A	8
10 A to 20 A to 10 A	11	55 A to 10 A to 55 A	5
10 A to 30 A to 10 A	11	55 A to 20 A to 55 A	5
10 A to 40 A to 10 A	12	55 A to 30 A to 55 A	4
10 A to 50 A to 10 A	15	55 A to 40 A to 55 A	5
10 A to 60 A to 10 A	17	55 A to 50 A to 55 A	3
10 A to 65 A to 10 A	18	55 A to 55 A to 55 A	0

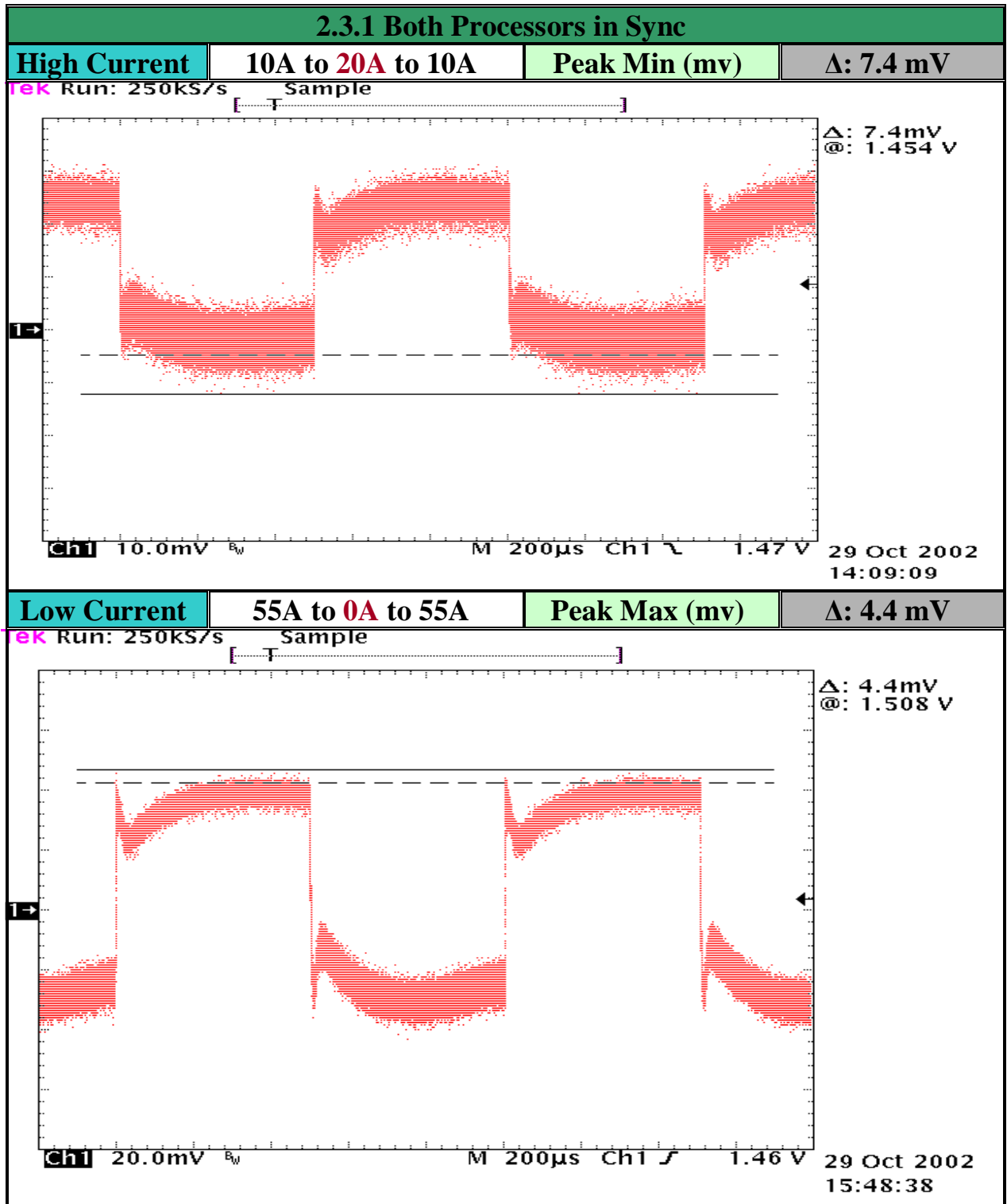


Intel Xeon Processor with 512 KB L2 Cache Loadline Validation  
Actual Loadline Chart - 2nd Processor at 65A





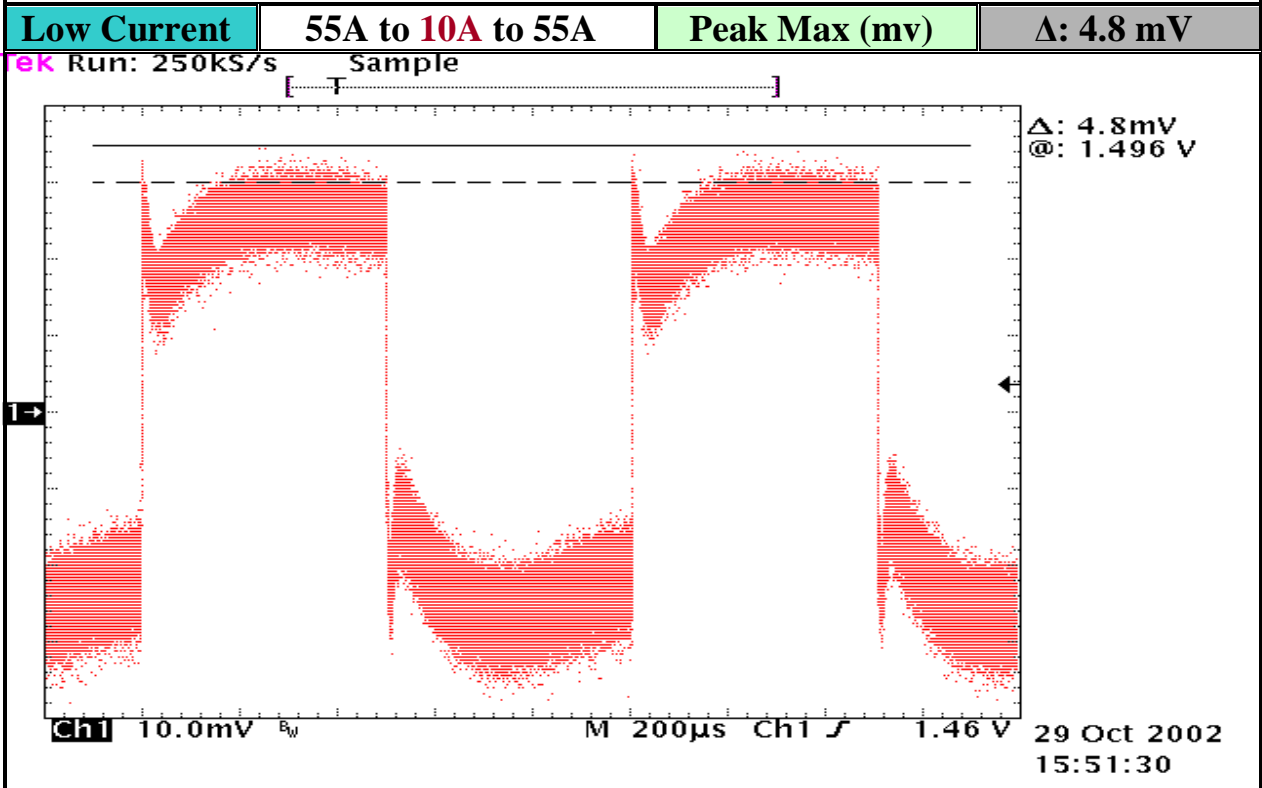
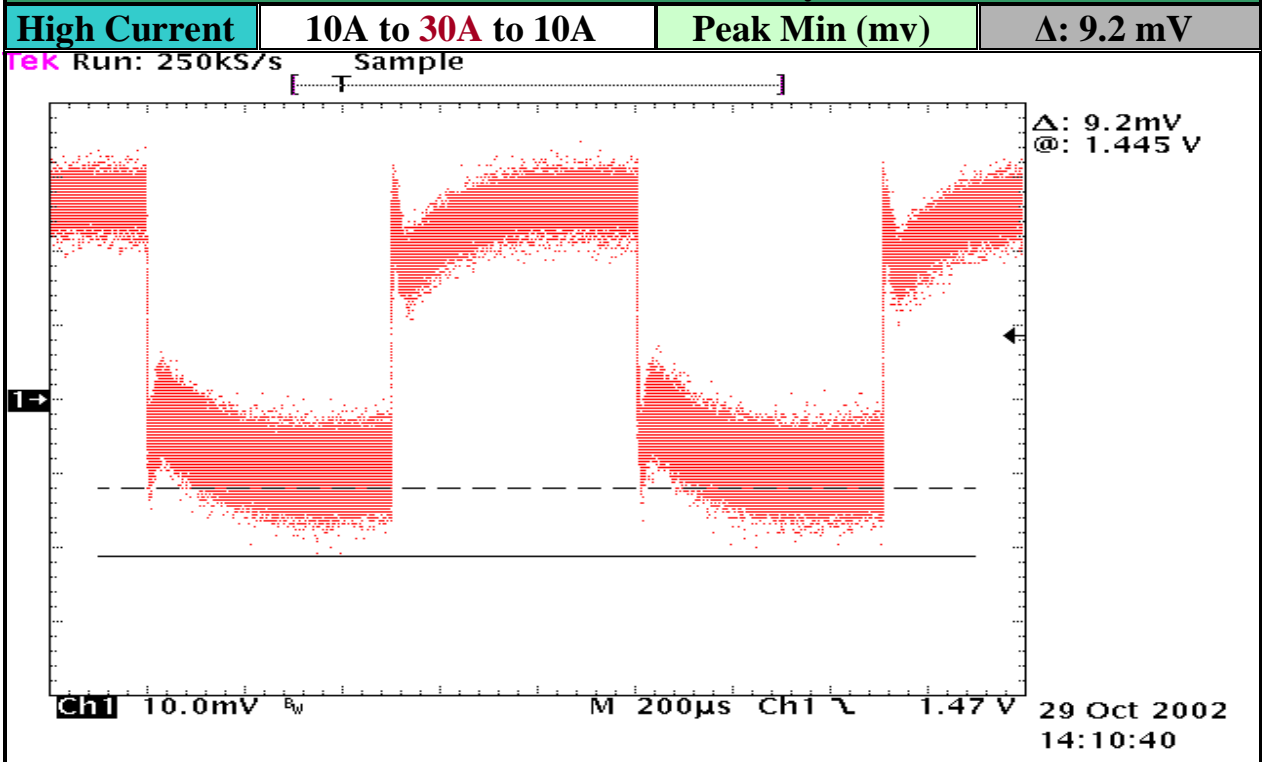
## 2.3 Both Processors in Sync





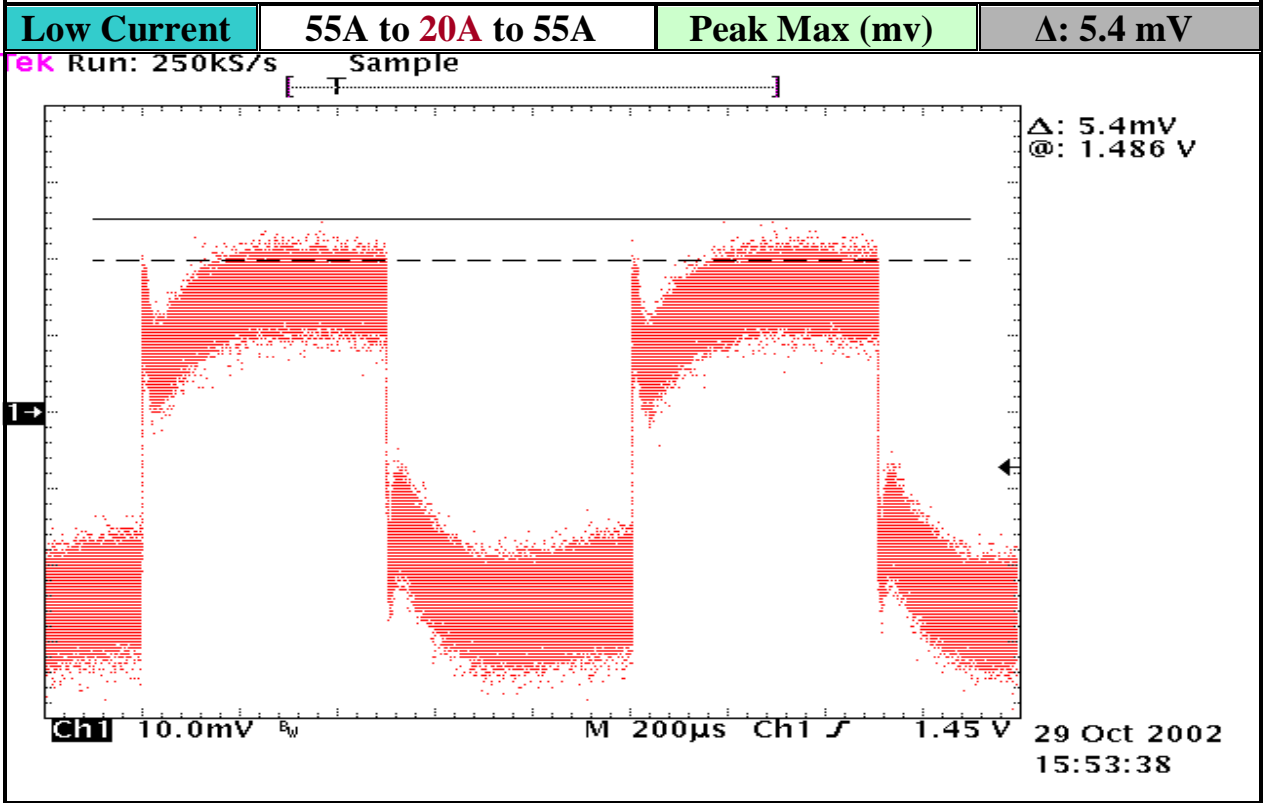
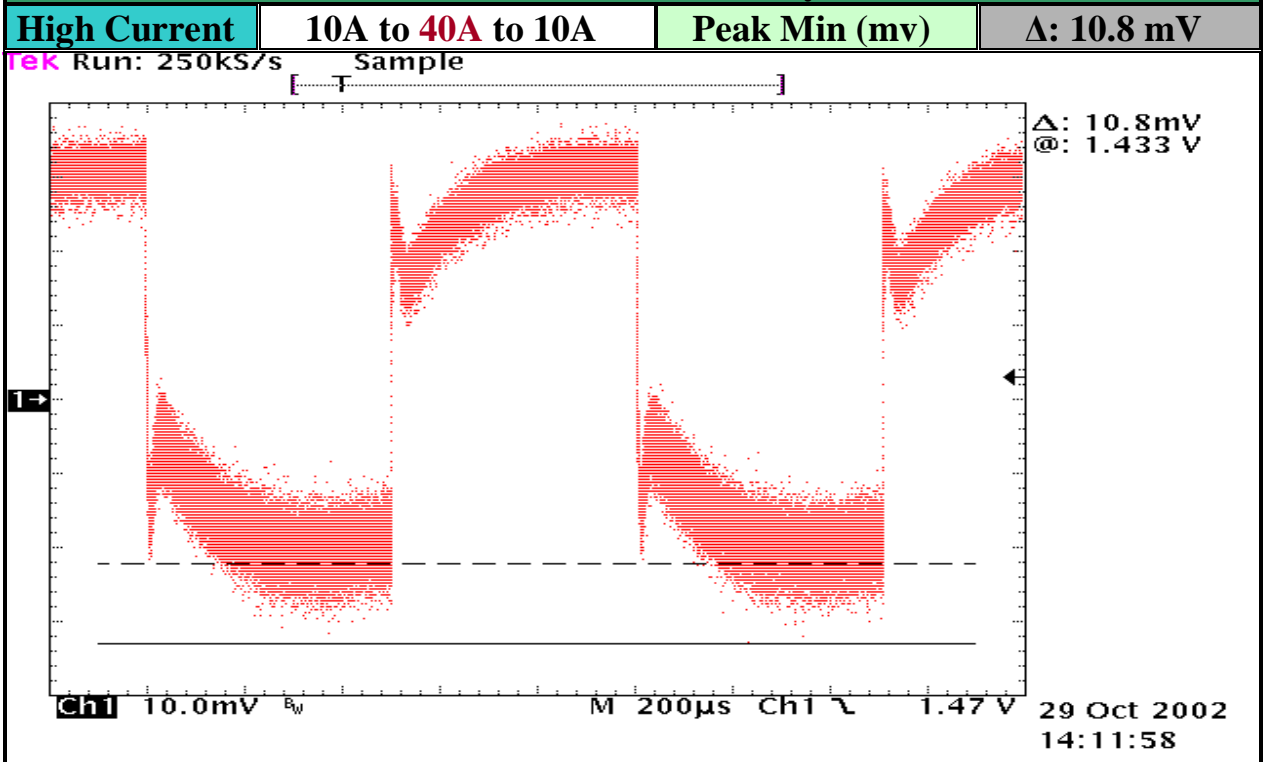


**2.3.2 Both Processors in Sync**



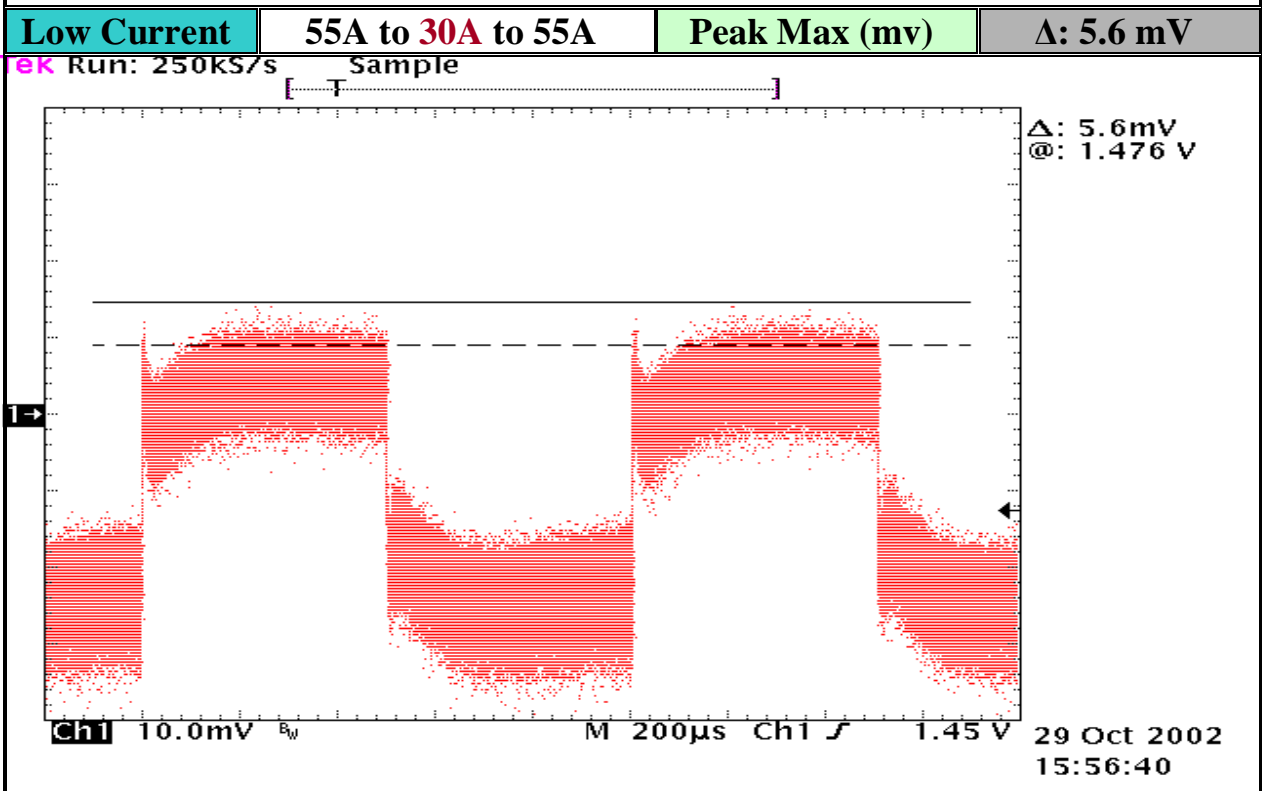
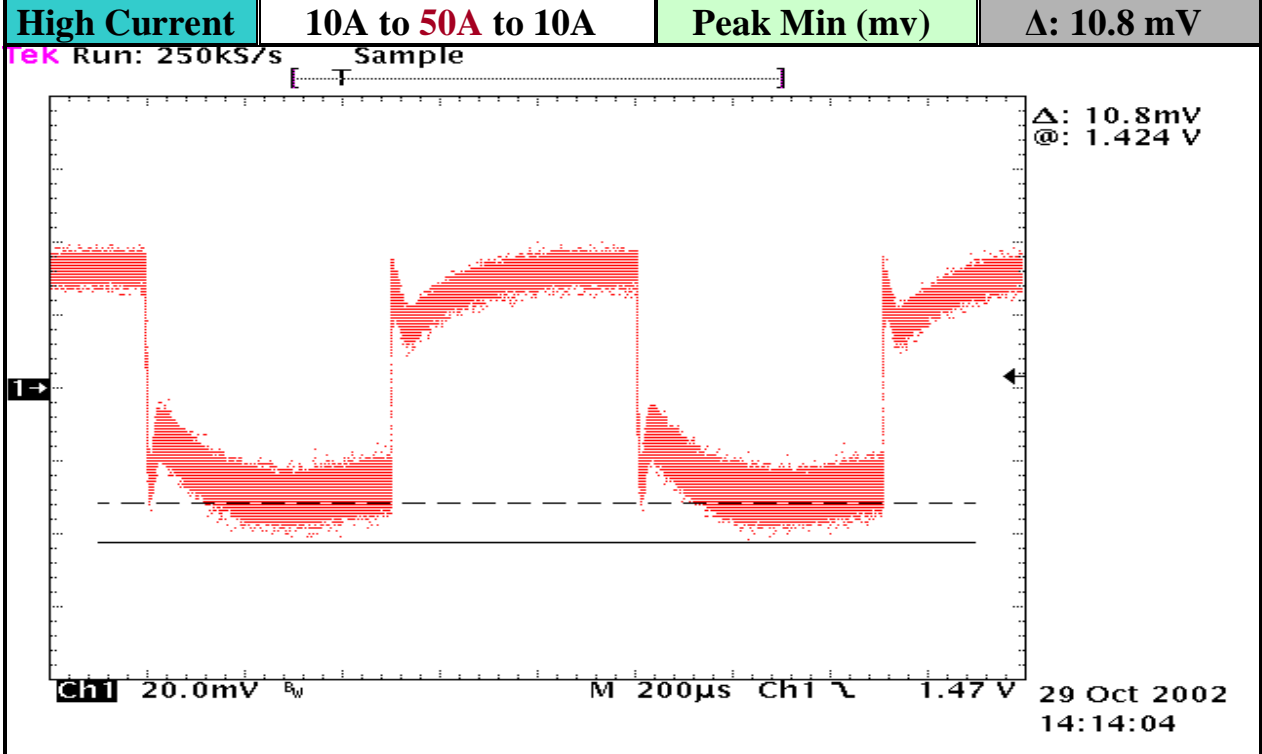


**2.3.3 Both Processors in Sync**



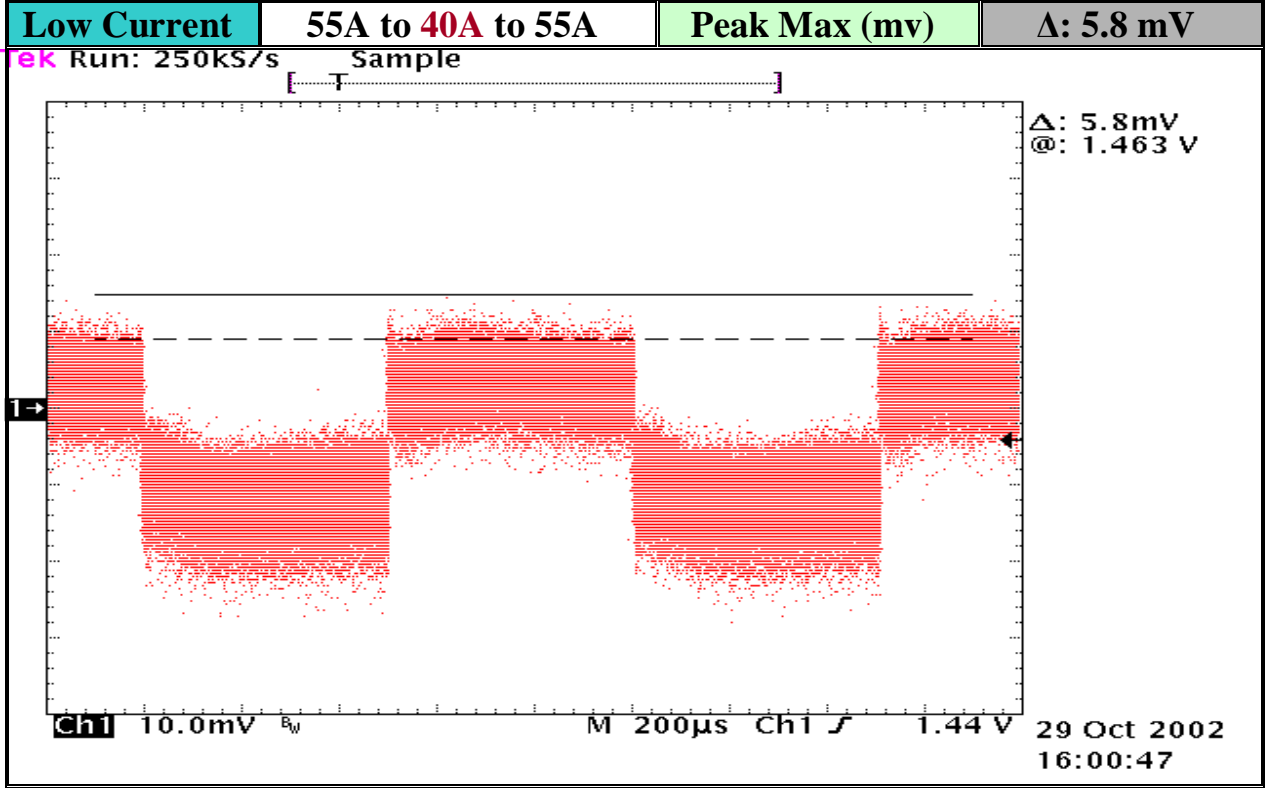
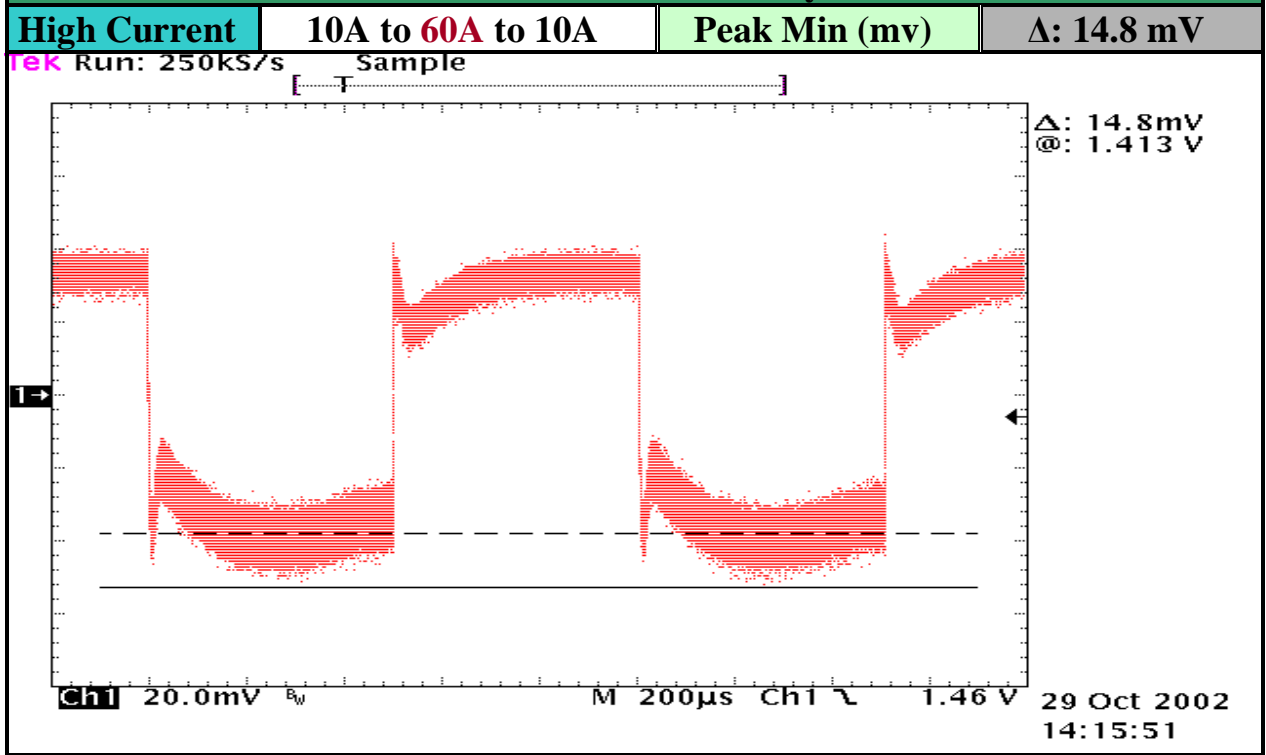


**2.3.4 Both Processors in Sync**



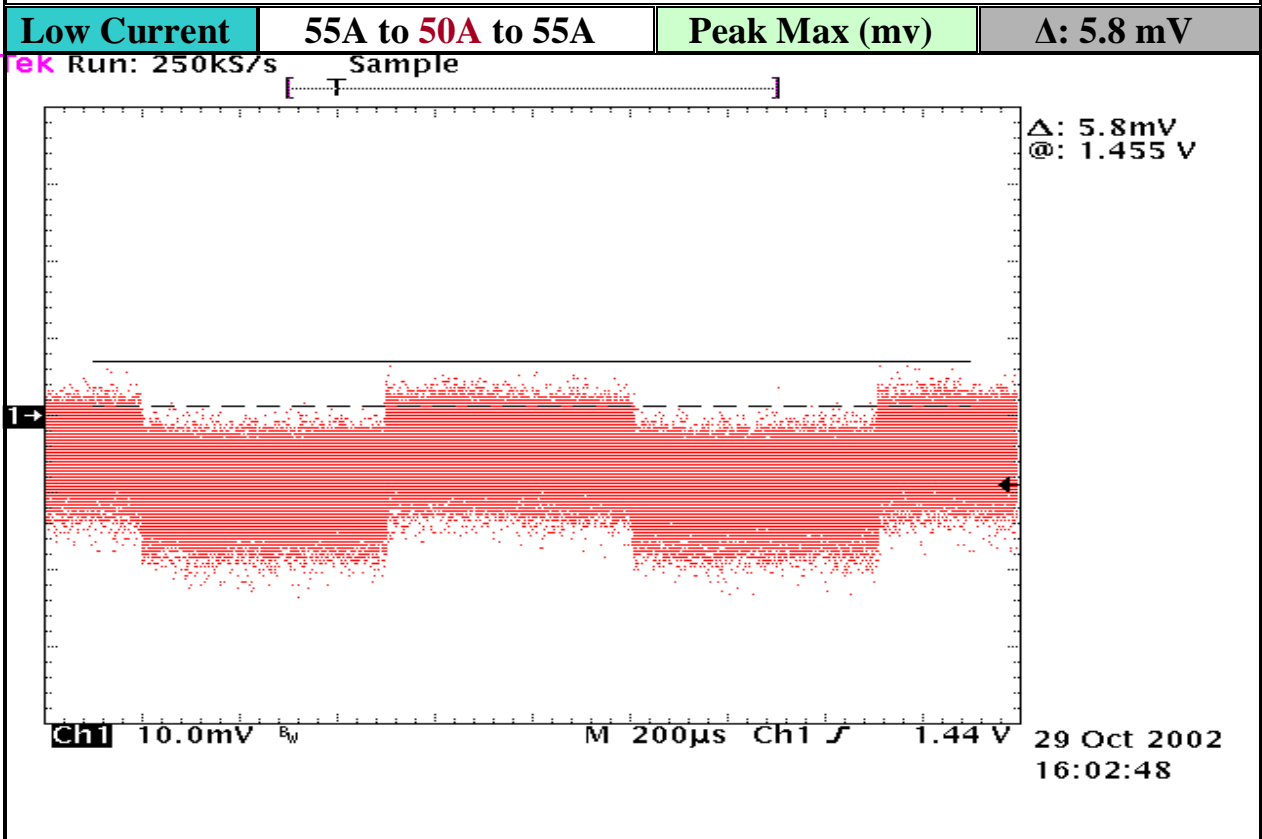
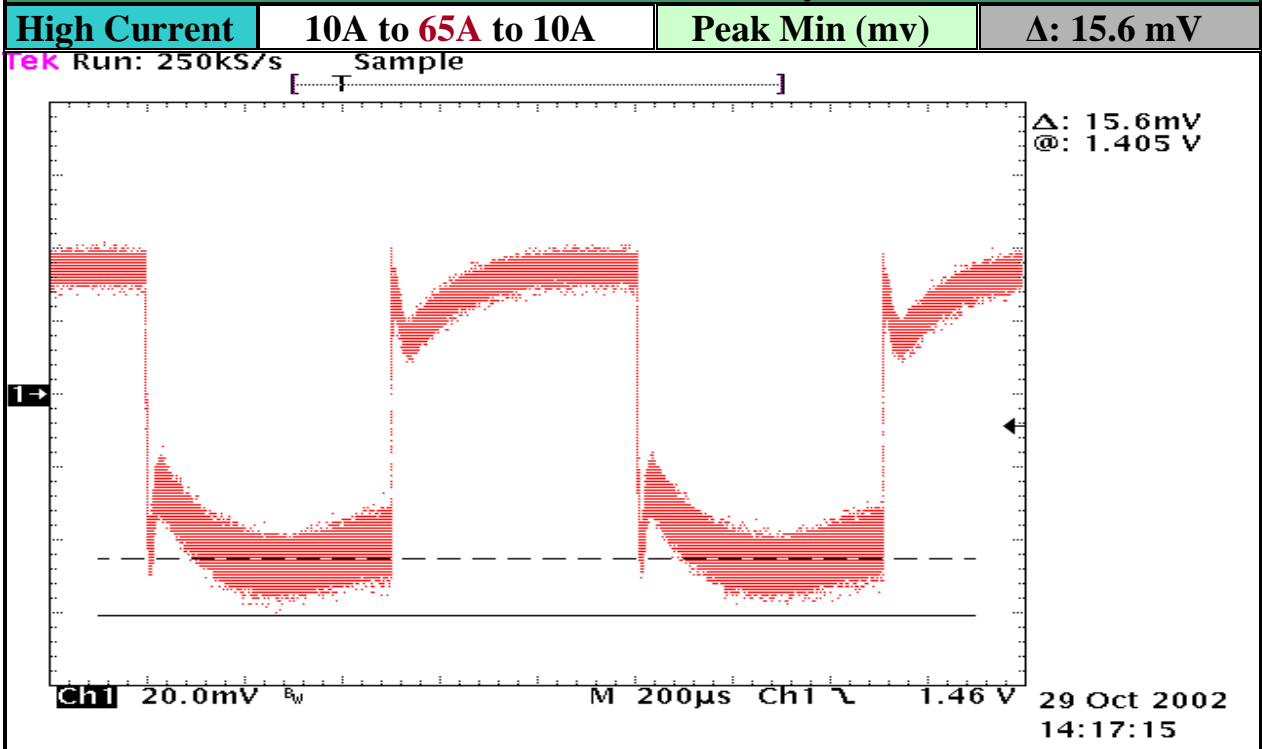


**2.3.5 Both Processors in Sync**





### 2.3.6 Both Processors in Sync



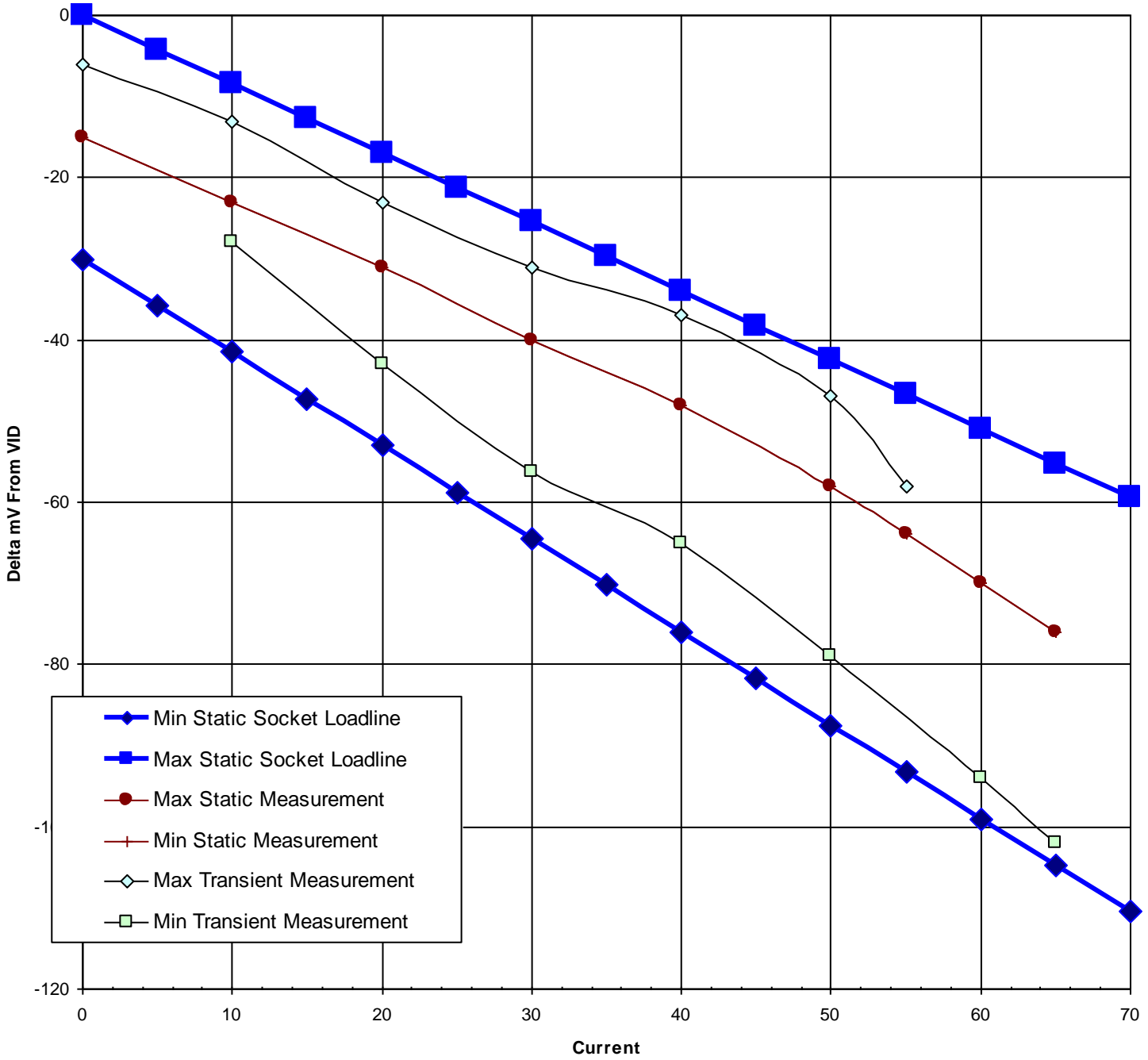


Static Voltage Measurements			Peak to Peak Ripple Voltage Measurements (mV)	
Test Processor Current	Measured North Field Static Voltage 2nd Processor equal to Test Processor	Measured South Field Static Voltage 2nd Processor equal to Test Processor	Measured North Field Voltage Non-Test Processor equal to first	
			Peak Positive	Peak Negative
0	1.485	1.485	5	5
10	1.477	1.477	5	5
20	1.469	1.469	5	5
30	1.460	1.460	6	6
40	1.452	1.452	6	6
50	1.442	1.442	6	6
55	1.436	1.436	6	6
60	1.430	1.430	7	7
65	1.424	1.424	8	8

Transient Min (mV) Increasing Load Step Size		Transient Min (mV) Decreasing Load Step Size	
Load Step (All Processors)	Measured North Field Voltage Both Processors in Sync	Load Step (All Processors)	Measured North Field Voltage Both Processors in Sync A
	Peak Min		Peak Max
10 A to 10 A to 10 A	0	55 A to 0 A to 55 A	4
10 A to 20 A to 10 A	7	55 A to 10 A to 55 A	5
10 A to 30 A to 10 A	10	55 A to 20 A to 55 A	3
10 A to 40 A to 10 A	11	55 A to 30 A to 55 A	3
10 A to 50 A to 10 A	15	55 A to 40 A to 55 A	5
10 A to 60 A to 10 A	17	55 A to 50 A to 55 A	5
10 A to 65 A to 10 A	18	55 A to 55 A to 55 A	0



Intel Xeon Processor with 512 KB L2 Cache Loadline Validation  
Actual Loadline Chart - Both Processor Stepping

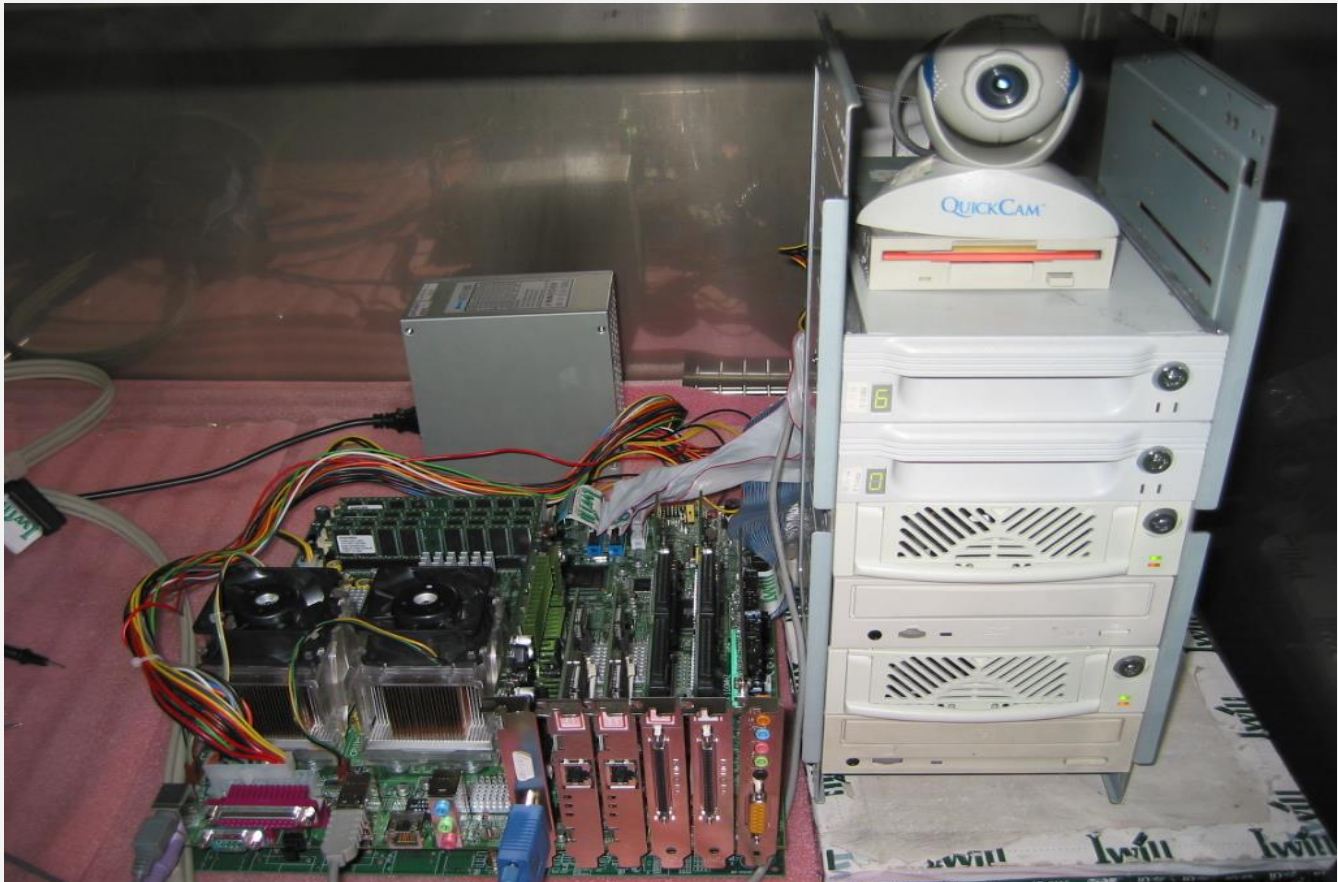




### 3. Chamber Test

Test Environment			
CPU	Intel Xeon 3.06 GHz x2	IDE1 Primary	IBM Deskstar DTLA-305040
DRAM	HCD PC-266 256MB, X4	IDE1 Secondary	Xander CR-852E 52X
AGP	Elsa Gladiac ultra	IDE2 Primary	Seagate ST310240A
PCI 1	Adaptec asc-29160	IDE2 Secondary	Sony dvd-rom ddu1621
PCI 2	Adaptec asc-29160	Floppy	Panasonic JU-256A347P
PCI 3	3Com 3c905c	USB Device	Logitech QUICKCAM PRO
PCI 4	Creative SoundBlaster 5.1	Windows Version	XP-PRO
PCI 5	3Com 3c905c	BCM Version	BCM 2.0
3.1 BCM_StressTest			Pass/Fail
Corner 1 : For High Temperature and Low Voltage Testing (45°C / 3.3V/48 Hours)			Pass
Corner 3 : For Low Temperature and Low Voltage Testing (10°C / 3.3V/48 Hours)			Pass
3.2 Burn-in Test for High/Low Temperature			Pass/Fail
Corner 1 : Burn-in For High Temperature Testing (45°C / 3.3V/48 Hours)			Pass
Corner 2 : Burn-in For Low Temperature Testing (5°C / 3.3V/48 Hours)			Pass

Note:







## 4. BIOS Function Test

Test Environment:

BIOS: Dec.26.2002

Driver CD: Power Installer II 0251

CPU: Intel Xeon Socket604 – 2.4GHz (533FSB)

DRAM: TwinMOS 256MB \*2 DDR266

AGP: Nvidia 8X AGP

Hard Disk: Maxtor 60GB ATA133

Operating System: Windows XP Home Edition

4.1 PC Health Statuses	Write Actual Values
Current CPU 0 Temperature	41°C
Current CPU 1 Temperature	39°C
Current CPU 0 Fan Speed	4560
Current CPU 1 Fan Speed	4440
Current System Fan 1 Speed	6026
Current System Fan 2 Speed	5490
Vcore	1.45
+1.2V	1.18
+3.3V	3.44
+5.0V	5.26
+12V	12.28
4.2 Systems Boot Up	Pass/Fail
For The BIOS update utility testing (write flash)	Pass
BIOS checksum review	Pass
Clear CMOS with Jumper	Pass
BIOS function supports review	Pass
Memory Size Counter Check	Pass
The BIOS core show out message check.	Pass
Check the systems show up message during the POST. (CPU/DRAM/HDD)	Pass
Iwill logo check.	Pass
The floppy seek check at boot up.	Pass
The power SW function test.	Pass
Power LED function check.	Pass
Reset SW function test.	Pass
HDD LED function check.	Pass
Speaker function check.	Pass
Boot sequence test. (For FDD/HDD/CD-ROM/DVD/SCSI/USB/LS120...)	Pass
RTC data check in the CMOS.	Pass
The USB legacy supports test. (With the USB K/B under DOS mode)	Pass
The Windows booting, restart and shut down test. (For continues loop)	Pass
BIOS Lock function check. (Reflash Protect)	Pass



4.3 Power Management Supports	Pass/Fail
Power Failure Function	---
Former-Sts	Pass
On	Pass
Off	Pass
ACPI Function Test	---
WOL for power on function test. (Under power off)	Pass
WOL for S1/S3/S5 mode test.	Pass
WOR for power on function test. (Under power off)	Pass
WOR for S1/S3/S5 mode test.	Pass
PME function test. (Under power off)	Pass
With USB K/B wake up for SMI mode test. (Front side and rear side)	Pass
ACPI LED will be flash after enter Suspend mode.	Pass
CPU FAN shut down after the systems enter S3 mode.	Pass
Alarm function check after CMOS RTC timeout.	Pass
RTC time out then wake up after the Windows enters S3 mode.	Pass
ACPI LED will be flash after the Windows enter S1 and S3 mode.	Pass
ACPI LED off after enter S4 mode.	Pass
With the USB K/B or Mouse wake up the Windows under standby mode.	Pass
4.4 The Onboard Function Test	Pass/Fail
Check the DMI information.	Pass
Read/Write the floppy disk.	Pass
Read the CD-ROM/DVD.	Pass
USB ports for the Keyboard and the Mouse PnP test.	Pass
COM port for serial mouse test.	Pass
LPT port for printer test.	Pass
PCI#32 slots for add on cards PnP test.	Pass
PCI-X slots for add on cards PnP test	Pass
ZCR slots for Raid car PnP test	Pass
Game port for the Joystick test.	Pass
The IrDA function testing in the Windows.	Pass
The onboard audio quality testing. (R/L channel check)	Pass
Onboard audio disables test.	Pass
Onboard LAN disables test.	Pass
Link the network after S3 resume.	Pass
Link the network after S4 resume.	Pass
Playing CD/DVD/MP3/WAV/MIDI after S3 resume.	Pass
Playing CD/DVD/MP3/WAV/MIDI after S4 resume. (Hibernate mode)	Pass
With the USB K/B and the Mouse after S3 resume.	Pass
With the USB K/B and the Mouse after S4 resume.	Pass



Note:



## 5. Performance Test

### 5.1 Performance For Benchmark

**Test Environment:**

BIOS: Dec.26.2002

Driver CD: Power Installer II 0251

CPU: Intel Xeon 2.66GHz (533FSB)

DRAM: TwinMOS 256MB DDR266 \*2

AGP: Nvidia AGP\_8x Solution

Hard Disk: Maxtor 60 GB ATA133

CD-ROM: Pioneer 16X DVD-ROM

Operating System: Windows XP professional

Platform	DP533-S
Winstone 2002	
Content Creation Winstone2002	44.2
Note:	
3D Mark 2001 build330	
Overall	6584
Note:	
PC Mark 2002	
CPU Score	5978
Memory Score	6285
HDD Score	891
Note:	
SPEC ViewPerf 7.0	
3dmax-01	6.319
DRV-08	27.99
DX-07	27.74
Light-05	10.41
Proe-01	9.257
Ugs-01	3.490
Note:	



## 5.2 Performance For Hyper-Threading Test

### Test Environment:

BIOS: Dec.26.2002  
 Driver CD: Power Installer II 0251  
 CPU: Intel Xeon 2.66GHz (533FSB/604)  
 DRAM: TwinMOS 256MB DDR266 \*2  
 AGP: 8X: Nvidia 8X AGP N18  
 Hard Disk: Maxtor 60 GB ATA133  
 CD-ROM: Pioneer 16X DVD-ROM  
 Operating System: Windows XP professional

Hyper Threading	Disable	Enable
Sandra SiSoft 2002		
CPU Benchmark (Dhrystone ALU) MIPS	5175	10891
CPU Benchmark (Whetstone FPU) MFLOPS	2557 / 5345	3579 / 7510
CPU Multi-Media Benchmark (Integer) it/s	19102	22793
CPU Multi-Media Benchmark (Floating) it/s	23784	32394

### Note:

The screenshot displays a Windows XP desktop with several windows open:

- Device Manager:** Shows hardware configuration including four Intel(R) Xeon(TM) CPUs at 2.40GHz.
- CPU Arithmetic Benchmark - SiSoftware Sandra:** Shows current CPU performance: Dhrystone ALU 10919 MIPS and Whetstone FPU/SSE2 3860/8499 MFLOPS. Reference CPUs include AMD Athlon MP 2000+ and Intel Pentium III Xeon 700.
- Multi-Media Benchmark:** Shows current CPU performance: Integer iSSE2 22792 it/s and Floating-Point iSSE2 32826 it/s. Reference CPUs include AMD Athlon MP 2000+ and Intel Pentium III Xeon 700.
- Windows Task Manager - Performance:** Shows system statistics: CPU Usage (1%), PF Usage (99.1 MB), Physical Memory (Total: 261612, Available: 138716, System Cache: 155512), and Kernel Memory (Total: 20040).



### 5.3 Performance For Dual Channel DDR Test

**Test Environment:**

BIOS: Dec.26.2002

CPU: Intel Xeon 2.4 GHz

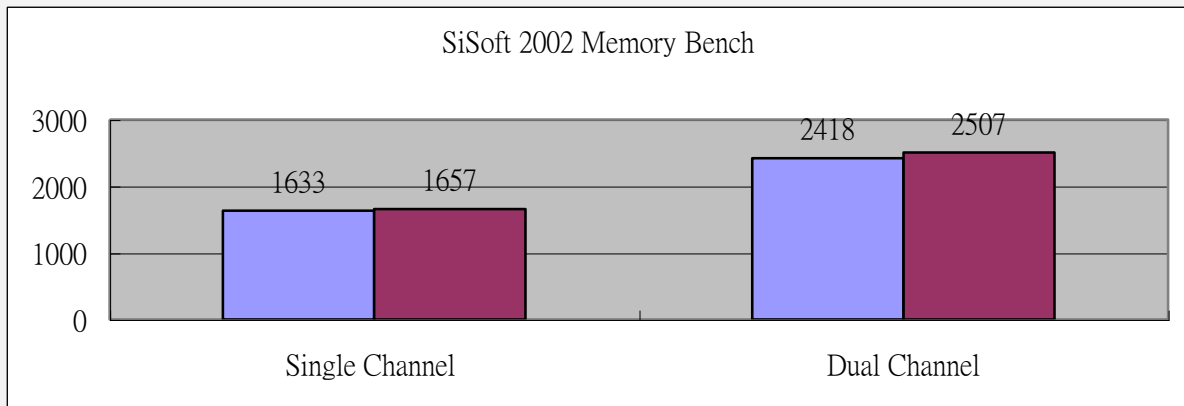
DRAM: TwinMOS 256MB DDR266

AGP: ELSA GeForce 4 MX440

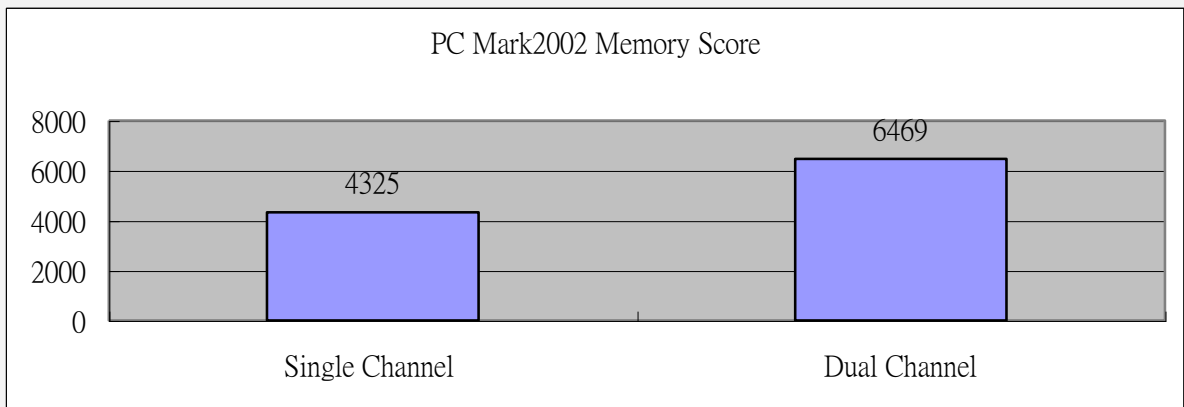
Hard Disk: Maxtor 60GB ATA133 7200rpm

Operating System: Windows XP professional

DDR Solution	Single Channel	Dual Channel
SiSoft 2002		
RAM Int Buffered Bandwidth (MB/s)	1633	2418
RAM Float Buffered Bandwidth (MB/s)	1657	2507



PC Mark 2002		
Memory Score	4325	6469





## 5.4 Performance For Giga-LAN Test

### Test Environment:

#### 1. Server:

Operating System: WINDOWS XP PROFESSIONAL

M/B: MPX2 V1.5

CPU: Athlon MP 1500+ (Dual Processor)

AGP: LeadTek RIVA TNT2 ULTRA

DIMM: Kingstone DDR333 256MB

HD: MAXTOR D740X-6L

LAN Card :Intel TL82543GC (Gigabit LAN)

LAN HUB: 3COM 3C16468 10/100/1000 Switch

#### 2.Client:

Operating System: WINDOWS XP PROFESSIONAL

M/B: DP533

CPU: Intel Xeon 2.8G (Dual Processor)

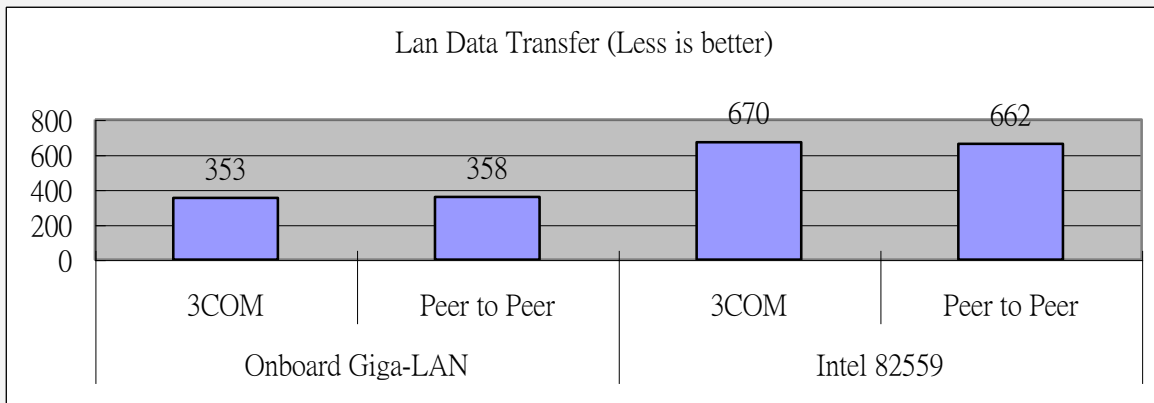
AGP: ELSA Geforce4 MX-420

DIMM: Samsung DDR333 256MBX4

Hard Disk: MAXTOR D740X-6L

LAN Card: Onboard Intel 82540EM(Gigabit LAN)

LAN Solution	Onboard Giga-LAN		Intel 82559	
LAN HUB	3COM	Peer to Peer	3COM	Peer to Peer
Data Transfer For 500M Files	1 min 18 sec	1 min 18 sec	2 min 33 sec	2 min 34 sec
Data Transfer For 1000M Files	2 min 59 sec	2 min 59 sec	5 min 40 sec	5 min 39 sec
Data Transfer For 2000M Files	5 min 53 sec	5 min 58 sec	11 min 10 sec	11 min 2 sec





### 5.5 Performance For SCSI

**Test Environment:**

BIOS: Dec.26.2002

Driver CD: Power Installer II 0251

CPU: Intel Xeon prestonia 2.4 GHz (604)

DRAM: TwinMOS 256MB DDR266 \*2

AGP: Ati Radeon 9700

**Hard Disk: Seagate Ultra320 St336732LC 36.7GB**

CD-ROM: Pioneer 16X DVD-ROM

Operating System: Windows XP professional

Platform	DP533-S
Winstone 2002	
Content Creation Winstone2002	44.5
Note:	
PC Mark 2002	
HDD Score	1054
Note:	
SiSoft 2002	
	42354
Note:	





## 6. Software Compatibility Test

### Test Environment:

BIOS: Dec.26.2002

Driver CD: Power Installer II 0251

CPU: Intel Xeon 3.06GHz (533FSB) x2

DRAM: KingMax KDL684T4A2A-06 , DDR300 , 256MB

AGP: LeadTek WinFast 3D S325 , 4X

Hard Disk: Western Digital WD400BB, Ultra DMA100 IDE, 40GB

6.1 Windows XP Home Edition	Pass/Fail
Setup installation the Windows XP. (APIC function enable)	Pass
The Windows XP patch files installation.	Pass
Setup installation the Iwill power installer CD.	Pass
Restart the Windows.	Pass
Shut down the Windows.	Pass
Enter Stand By mode.	Pass
Scandisk test.	Pass
Setup installation the Microsoft Office 2000.	Pass
Hardware device manager check. (No error mark in the device manager)	Pass
System event viewer check	Pass
Windows task manager check. (CPU usage history)	Pass
Systems Reboot test.	Pass
Onboard Function Test	
PS/2 keyboard test.	Pass
PS/2 Mouse test.	Pass
FDD function test. (Format/Read/Wrote)	Pass
IDE for HDD test.	Pass
IDE for CD-ROM test.	Pass
IDE for DVD-ROM test.	Pass
Serial Port test.	Pass
Printer test.	Pass
LAN port for Gigabit data transfer test.	Pass
LAN port for ADSL test.	Pass
AGP cards Compatibility Test	
3D Mark2001 SE for continues loop test. (More than 1 hour)	Pass
Business Winstone 2001 test.	Pass
Content Creation Winstone 2002 test.	Pass
PCI Cards Compatibility Test	
PCI Slots for Sound card test.	Pass
PCI Slots for LAN card test.	Pass
PCI Slots for SCSI card test.	Pass
PCI Slots for RAID card test.	Pass
PCI Slots for SATA card test.	Pass



USB Devices Compatibility Test	
USB ports for Keyboard PnP/restart/S3 resume test.	Pass
USB ports for Mouse PnP/restart/S3 test.	Pass
USB ports for Printer PnP/restart/S3 test.	Pass
USB ports for Scanner PnP/restart/S3 test.	Pass
USB ports for joystick PnP/restart/S3 test.	Pass
USB ports for HDD PnP/restart/S3 test.	Pass
USB ports for Pen Drive PnP/restart/S3 test.	Pass
USB ports for Digital Camera PnP/restart/S3 test.	Pass
1394 Devices Compatibility Test	
1394 ports for MO PnP/restart/S3 resume test.	Pass
1394 ports for HDD PnP/restart/S3 test.	Pass
VGA Quality Review	
Check the shadows on the screen.	Pass
Check the ripples on the screen.	Pass
Playback for VCD test.	Pass
Playback for DVD test.	Pass
Playback for MPEG test.	Pass
Onboard Audio Test	
Playback audio CD for noise test.	Pass
Check R/L channel for earphone.	Pass
Record test.	Pass
CD-in connector test.	Pass
Line-in connector test.	Pass
MIC-in connector test.	Pass
SPDF function test.	Pass
Power Management For the Windows	
Suspend to RAM (S3 mode) test.	Pass
WOL test after enter S3 mode.	Pass
RTC wake up test for a scheduled task enable.	Pass
ACPI LED checks for Flash.	Pass
Hardware device manager check after S3 mode resume.	Pass
Suspend to hard disk (Hibernate) test.	Pass
Hardware device manager check after hibernate (S4 mode) resume.	Pass
Onboard SCSI Test	
SCSI Channel A	
Setup installation the Windows XP. (APIC function enable)	Pass
The Windows XP patch files installation.	Pass
Setup installation the Iwill power installer CD.	Pass
Restart the Windows.	Pass
Shut down the Windows.	Pass
Enter Stand By mode.	Pass



Scandisk test.	Pass
Setup installation the Microsoft Office 2000.	Pass
Hardware device manager check. (No error mark in the device manager)	Pass
System event viewer check.	Pass
Windows task manager check. (CPU usage history)	Pass
Systems Reboot test.	Pass
<b>SCSI Channel B</b>	
Setup installation the Windows XP. (APIC function enable)	Pass
The Windows XP patch files installation.	Pass
Setup installation the Iwill power installer CD.	Pass
Restart the Windows.	Pass
Shut down the Windows.	Pass
Enter Stand By mode.	Pass
With the PS/2 K/B or Mouse wake up the Windows.	Pass
Scandisk test.	Pass
Setup installation the Microsoft Office 2000.	Pass
Hardware device manager check. (No error mark in the device manager)	Pass
System event viewer check.	Pass
Windows task manager check. (CPU usage history)	Pass
Systems Reboot test.	Pass
<b>ZCR For SCSI RAID Card Test</b>	
For RAID 0 function Test.	Pass
For RAID 1 function Test.	Pass
<b>Utilities Test</b>	
PC Mark2002 test.	Pass
Content Creation Winstone2002 test.	Pass
3D Mark2001 SE test.	Pass
3D Winbench 2000.	Pass
Quake III Demo test.	Pass
Super PI (1M) test.	Pass
BCM Diagnostic test. (Include the DMI information review)	Pass
CPU stability test.	Pass
Power Strip test.	Pass
WCPUID test.	Pass
AMD System Stress Test. (SST V1.0)	Pass
Intel Hyper Threading CPU Comparability test.	Pass
<b>SiSoft Sandra 2002 Mainboard Information</b>	
System Mainboard.	Pass
System Memory Controller.	Pass
System Chipset.	Pass
Logical/Chipset Memory Banks.	Pass
Environment Monitor.	Pass



Temperature Sensor.	Pass
Cooling Device.	Pass
Voltage Sensors.	Pass
AGP Bus.	Pass
PCI Bus.	Pass
LPC Hub Controller.	Pass
USB Controller 1/2/3...	Pass
1394 Controller.	Pass
Expansion Slot. (PCI and AGP)	Pass
Port Controller.	Pass
Performance Tips.	Pass
Games Test	
Tomb Raider V.	Pass
AOE II.	Pass
MOTO GP.	Pass
Note:	



**Test Environment:**

BIOS: Dec.26.2002  
 Driver CD: Power Installer II 0251  
 CPU: Intel Xeon 3.06 GHz (533FSB) X2  
 DRAM: TwinMOS 256MB \*2 DDR266  
 AGP: Ati Radeon 9700  
 Hard Disk: Seagate Ultra320 SCSI HDD

6.2 Windows XP Profession	Pass/Fail
Setup installation the Windows XP.	Pass
Setup installation the Iwill power installer CD.	Pass
Restart the Windows.	Pass
Shut down the Windows.	Pass
Enter standby Mode.	Pass
Scandisk test.	Pass
Setup installation the Microsoft Office 2000.	Pass
Hardware device manager check.	Pass
System event viewer check.	Pass
Windows task manager check. (CPU usage history)	Pass
<b>Power Manager For the Windows</b>	
Suspend to RAM (S3 mode) test.	Pass
WOL test after enter S3 mode.	Pass
RTC wake up test for a scheduled task enable.	Pass
ACPI LED checks for Flash.	Pass
Hardware device manager check after S3 mode resume.	Pass
Suspend to hard disk (Hibernate) test.	Pass
Hardware device manager check after hibernate (S4 mode) resume.	Pass
<b>Memory Compatibility Test</b>	
BCM memory test for continues loop 200 times.	Pass
Content Creation Winstone2002 test for continues loop 5 times.	Pass
Suspend to RAM (S3 Mode) test.	Pass
<b>Utilities Test</b>	
Reboot test.	Pass
PC Mark2002 test.	Pass
Content Creation Winstone2002 test.	Pass
3D Mark2001 SE test.	Pass
SiSoft Sandra 2002 test.	Pass
Quake III Demo test.	Pass
Super PI (1M) test.	Pass
BCM Diagnostic test.	Pass
CPU stability test.	Pass
Power Strip test.	Pass
WCPUID test.	Pass



Exerciser	Pass
Note:	



**Test Environment:**

BIOS: Dec.26.2002

Driver CD: Power Installer II 0251

CPU: Intel Xeon 2.8GHz x2

DRAM: Toshiba TC59WM807BFT-70, DDR266, 256MB x4

AGP: LeadTek WinFast GeForce DDR , 4X

Hard Disk: Western Digital WD400BB , Ultra DMA100 IDE , 40GB

6.3 Windows 2000 Professional SP3	Pass/Fail
Setup installation the Windows 2000. (APIC function enable)	Pass
Setup installation the Iwill power installer CD.	Pass
Restart the Windows.	Pass
Shut down the Windows.	Pass
Enter standby Mode.	Pass
Hardware device manager check.	Pass
System event viewer check.	Pass
Windows task manager check. (CPU usage history)	Pass
Scandisk test.	Pass
Setup installation the Microsoft Office 2000.	Pass
Onboard Function Test	
PS/2 keyboard test.	Pass
PS/2 Mouse test.	Pass
FDD function test. (Format/Read/Wrote)	Pass
IDE for HDD test.	Pass
IDE for CD-ROM test.	Pass
IDE for DVD-ROM test.	Pass
Serial Port test.	Pass
Printer port test.	Pass
LAN port for Gigabit data transfer test.	Pass
LAN port for ADSL test.	Pass
PCI Slots for Sound card test.	Pass
PCI Slots for LAN card test.	Pass
PCI Slots for SCSI card test.	Pass
PCI Slots for RAID card test.	Pass
USB Ports Function test.	Pass
1394 Ports Function test.	Pass
SCSI Channel A test.	Pass
SCSI Channel B test.	Pass
Onboard AC97 Audio CODEC test.	Pass
SPDF function test.	Pass
ZCR for RAID Cards test.	Pass
Power Manager For the Windows	
Suspend to RAM (S3 mode) test.	Pass



RTC wake up test for a scheduled task enable.	Pass
ACPI LED checks for Flash.	Pass
Hardware device manager check after S3 mode resume.	Pass
Suspend to hard disk (Hibernate) test.	Pass
Utilities Test	
Reboot test.	Pass
SYSMark2002	Pass
BCM 2.01 Stress test.	Pass
Note:	





**Test Environment:**

BIOS: Dec.26.2002  
 Driver CD: Power Installer II 0251  
 CPU: Intel Xeon 2.4GHz (533FSB)  
 DRAM: TwinMOS 256MB \*2 DDR266  
 AGP: Nvidia 8X AGP  
 Hard Disk: Maxtor 60GB ATA133

6.4 MS-DOS Mode	Pass/Fail
MS-DOS Command	---
FDISK	Pass
Format	Pass
Copy	Pass
Utilities Test	---
BCM for memory test. (BMEM)	Pass
Checkit 4.0	---
System Board Test	Pass
Memory Test	Pass
Hard Disk Test	Pass
Floppy Test	Pass
Serial Port Test (Loop back)	Pass
Parallel Port Test (Loop back)	Pass
Modem Test	Pass
Video Card Test	Pass
Printer Test	Pass
Keyboard Test	Pass
Note:	



**Test Environment:**

BIOS: Dec.26.2002

CPU: Intel Xeon 3.06 GHz x2

DRAM: KingMax KDL684T4A2A-06 , DDR300 , 256M x2

AGP: LaedTek WinFast 3D S325 , 4X

Hard Disk: IBM IC35L060AVVA07-0 , Ultra DMA100 , 60GB

6.5 Linux Red Hat 8.0	Pass/Fail
Setup installation the Linux Red Hat 8.0.	Pass
Restart the systems.	Pass
Shut down the systems.	Pass
<b>Onboard Function Test</b>	
PS/2 keyboard test.	Pass
PS/2 Mouse test	Pass
FDD function test. (Format/Read/Wrote)	Pass
IDE for HDD test.	Pass
IDE for CD-ROM test.	Pass
IDE for DVD-ROM test.	Pass
Serial Port test.	Pass
Printer test.	Pass
LAN port for Gigabit data transfer test.	Pass
PCI Slots for Sound card test.	Pass
PCI Slots for LAN card test.	Pass
PCI Slots for SCSI card test.	Pass
PCI Slots for RAID card test.	Pass
USB ports for test.	Pass
SCSI Channel A test.	Pass
SCSI Channel B test.	Pass
Note:	



## 7. Power Installer CD Software Compatibility Test

Test Environment:

BIOS: Dec.26.2002

Driver CD: Power Installer II 0251

CPU: Intel Xeon – 2.4GHz (533FSB)

DRAM: TwinMOS 256MB \*2 DDR266

AGP: Nvidia 8X AGP

Hard Disk: Maxtor 60GB ATA133

Operating Systems List	Pass/Fail
Setup installation the Power Installer CD for the Windows 2000.	Pass
Setup installation the Power Installer CD for the Windows XP Home Edition.	Pass
Setup installation the Power Installer CD for the Windows XP Professional.	Pass
Note:	



## 8. Heavy Load Test

### Test Environment:

BIOS: Dec.26.2002

Driver CD: Power Installer II 0251

CPU0: Intel Xeon (Prestonia) 2.8GHz

CPU1: Intel Xeon (Prestonia) 2.8GHz

DIMM0~4: Toshiba TC59WM807BFT-70 , DDR266 , 256M

AGP: LeadTek WinFast GeForce DDR , 4X

IDE0 Master: Western Digital WD400BB , Ultra DMA100 , 40GB

IDE1 Master: Actima AD05P , 6X

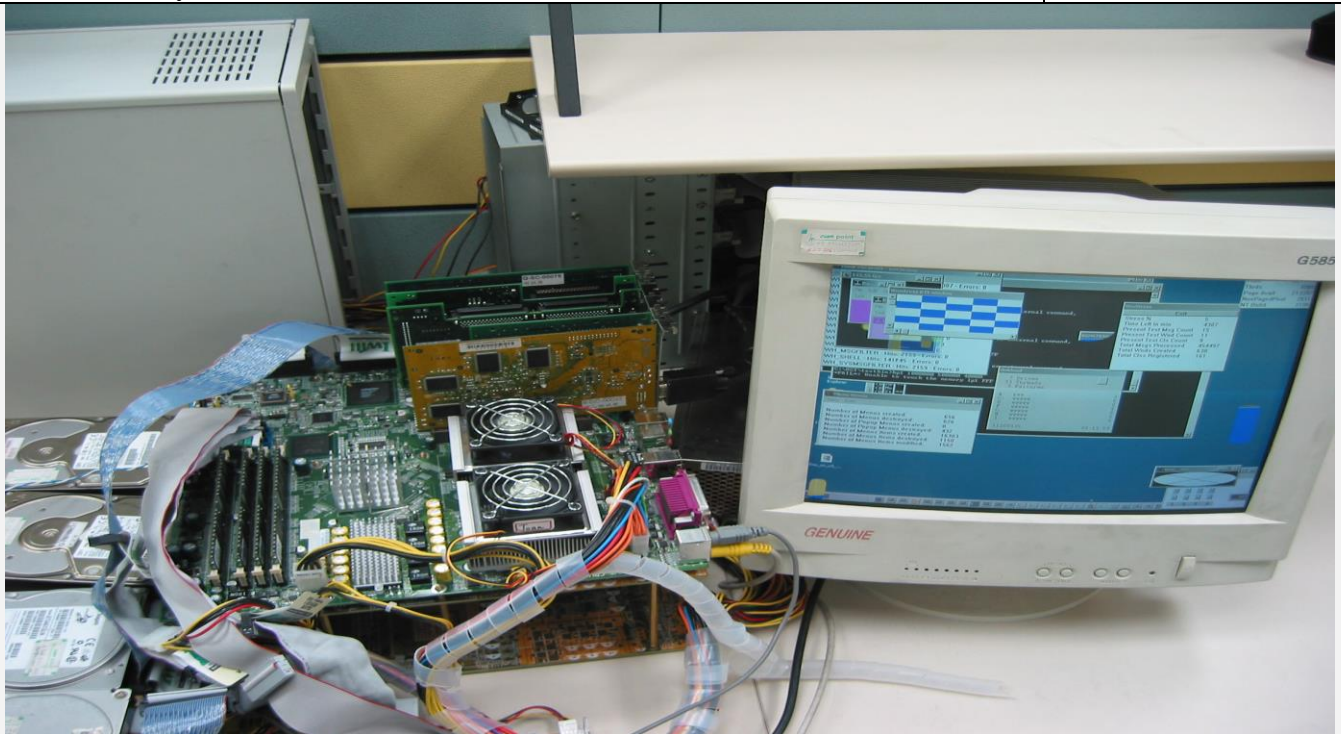
SCSI A: Quantum PX4550LW , Ultra SCSI , 4.5GB

SCSI B: Seagate ST34573LW , Ultra SCSI , 4.5GB

PCI0: Creative BLASTER PCI 64

PCI1: ACER ALN-325/B50

Windows 2000 Profession SP3	Pass/Fail
Setup installation the Windows 2000.	Pass
Setup installation the Iwill power installer CD.	Pass
Hardware device manager check.	Pass
Setup installation the HCT 9.502.	Pass
HCT 9.502 List	
Test Disk load A:/C:/D:/E:/F:/G:/H:/I:/J...(Include the onboard SCSI solution)	Pass
HCT 9.502 System Stress test for 48 hours.	Pass





## 9. Hardware Compatibility List

9.1 CD-ROM					
Vendor	Model No	Interface	Speed	Result	
ACER	CD-636A	IDE	36X	Pass	
AFREYY	CD-2050S	SCSI	50X	Pass	
Aopen	CD-948E	IDE	48X	Pass	
ASUS	CD-S400/A	IDE	40X	Pass	
ASUS	CD-S500	IDE	50X	Pass	
Creative	CD3220E	IDE	32X	Pass	
GENUINE	GC-845	IDE	45X	Pass	
Mitsumi	CRMC-FX4824T	IDE	48X	Pass	
Plextor	PX-40TSUMi	Ultra Wide SCSI	40X	Pass	
Plextor	PX-40TSi	SCSI	40X	Pass	
SONY	CDU4811	IDE	48X	Pass	
TEAC	CD-532S	SCSI	32X	Pass	
TEAC	CD-532E	IDE	32X	Pass	
TEAC	CD-540E	IDE	40X	Pass	
Note:					
9.2 CPU					
Vendor	Model No	Frequency	FSB	Vcore	Result
Intel	Xeon Foster (603)	1.5GHz	400 MHZ	1.72	Pass
Intel	Xeon Foster (603)	1.7GHz	400 MHZ	1.71	Pass
Intel	Xeon Foster (603)	2.0GHz	400 MHZ	1.72	Pass
Intel	Xeon Prestonia (603)	2.0GHz	400 MHZ	1.45	Pass
Intel	Xeon Prestonia (603)	2.2GHz	400 MHZ	1.45	Pass
Intel	Xeon Prestonia (603)	2.4GHz	400 MHZ	1.45	Pass
Intel	Xeon Prestonia (603)	2.8 GHz	533 MHZ	1.47	Pass
Intel	Xeon Prestonia (603)	2.8 GHz	400 MHZ	1.45	Pass
Intel	Xeon Prestonia (604)	2.0 GHz	533 MHZ	1.45	Pass
Intel	Xeon Prestonia (604)	2.4 GHz	533 MHZ	1.44	Pass
Intel	Xeon Prestonia (604)	2.66 GHz	533 MHZ	1.44	Pass
Intel	Xeon Prestonia (604)	2.8 GHz	533 MHZ	1.44	Pass
Intel	Xeon Prestonia (604)	3.06 GHz	533 MHZ	1.43	Pass
Note:					
9.3 Display Card					
Vendor	Model No	Chipset Vender	Drivers	Result	
ABIT	SILURO GF256 GTS	Nvidia GeForce2	6.13.10.4109	Pass	



ASUS	V8170 GF4 MX 440	Nvidia GeForce4	6.13.10.4109	Pass
ATI	RADEON 7200	RADEON 7200	6.13.10.6200	Pass
ATI	RADEON 8500	RADEON 8500	6.13.10.6200	Pass
ATI	RADEON 9700 Series	RADEON 9700 Series	6.13.10.6200	Pass
ATI	RADEON VE	RADEON VE	6.13.10.6200	Pass
ELSA	ERAZOR III Pro	Nvidia TNT2 Pro	6.13.10.4109	Pass
ELSA	GLADIAC	Nvidia GeForce2	6.13.10.4109	Pass
ELSA	GLADIAC 517	Nvidia GeForce4 MX	6.13.10.4109	Pass
ELSA	GLADIAC 517 SV	Nvidia GeForce4 MX	6.13.10.4109	Pass
ELSA	GLADIAC 920	Nvidia GeForce3	6.13.10.4109	Pass
ELSA	Gloria II	Nvidia Quadro	6.13.10.4109	Pass
ELSA	Gloria III	Nvidia Quadro2 Pro	6.13.10.4109	Pass
GainWard	GeForce DDR	Nvidia GeForce 256	6.13.10.4109	Pass
GainWard	TNT2 Pro	Nvidia TNT2	6.13.10.4109	Pass
LeadTek	A250 Ultra TD	Nvidia Geforce4 Ti 4600	6.13.10.4109	Pass
LeadTek	GeForce 3D S320 II	Nvidia TNT2	6.13.10.4109	Pass
LeadTek	GeForce2 GTS	Nvidia GeForce2 GTS	6.13.10.4109	Pass
LeadTek	GeForce2 MX	Nvidia GeForce2 MX	6.13.10.4109	Pass
LeadTek	GeForce2 Pro	Nvidia GeForce2 Pro	6.13.10.4109	Pass
Matrox	G400 DualHead Max	Maxtor G400	5.86.32.0	Pass
Matrox	G450 Dual Head	Maxtor G450	5.86.32.0	Pass
MSI	GeForce2 MX 400	Nvidia GeForce2 MX	6.13.10.4109	Pass
MSI	GeForce4 Ti 4200	Nvidia GeForce4	6.13.10.4109	Pass
PINE	GeForce2 MX 200	Nvidia GeForce2 MX	6.13.10.4109	Pass
PixelView	GeForce2 MX	Nvidia GeForce2 MX	6.13.10.4109	Pass
PixelView	TNT2 M64	Nvidia TNT2 M64	6.13.10.4109	Pass
PROLINK	GeForce4 Ti 4200	Nvidia Geforce4 Ti 4200	6.13.10.4109	Pass
SPARKLE	GeForce2 MX	Nvidia GeForce2 MX	6.13.10.4109	Pass
SPARKLE	TNT2 M64	Nvidia TNT2 M64	6.13.10.4109	Pass
Top Solution	Apollo 3D Thrill 315	SiS315	6.13.10.3030	Pass
TRIPLEX	MX 400	Nvidia GeForce2 MX	6.13.10.4109	Pass

Note

#### 9.4 DVD-ROM

Vendor	Model	Transfer Rate	Interface	Result
Aopen	DVD1648	16X	IDE	Pass
ACER	DVP 1648A	16X	IDE	Pass
AFREEY	DD-4010E	10X	IDE	Pass
ASUS	DVD-E612	12X	IDE	Pass
BTC	BDV-316B	16X	IDE	Pass
SONY	DDU220-E	5X	IDE	Pass



SONY	DDU1621	16X	IDE	Pass
Panasonic	SR-8583-B	5X	IDE	Pass
Panasonic	SR-8588-B	16X	IDE	Pass
Pioneer	DVD-113	6X	IDE	Pass
Pioneer	DVD-114	10X	IDE	Pass
Pioneer	DVD-115	16X	IDE	Pass
Pioneer	DVD-116	16X	IDE	Pass
Pioneer	DVD-106S	16X	IDE	Pass
LiteOn	LTD-163D	16X	IDE	Pass

Note:

### 9.5 FDD

Vendor	Model No	Size	Interface	Result
NEC	FD1231H	1.44 MB	FDD	Pass
Panasonic	LKMF934-1	1.44 MB	FDD	Pass
Panasonic	JU-257A606P	1.44 MB	FDD	Pass
Panasonic	JU-256A347P	1.44 MB	FDD	Pass
SONY	MPF-920E	1.44 MB	FDD	Pass
TEAC	FD235HF	1.44 MB	FDD	Pass
MITSUMI	D353M3	1.44 MB	FDD	Pass
TEAC	FD235J	2.88 MB	FDD	Pass

Note:

### 9.6 HDD

Vendor	Model No	Size	Interface	Result
Fujitsu	MPE3102AT	10.2GB, DMA66	IDE	Pass
IBM	DTTA-350640	6.4GB, DMA33	IDE	Pass
IBM	DJNA-352500	25GB, DMA66	IDE	Pass
IBM	IC35L040AVVN07	40GB, DMA100	IDE	Pass
IBM	IC35L060AVVA07	60GB, DMA100	IDE	Pass
IBM	DMVS18N	Ultra 3 SCSI 160M	SCSI	Pass
IBM	DNES-309170	Ultra 2 SCSI	SCSI	Pass
Maxtor	2R015H1	15GB, DMA100	IDE	Pass
Maxtor	D740X-6L	60GB, DMA133	IDE	Pass
Maxtor	6L060J3	60GB, DMA133	IDE	Pass
Quantum	CR4300T	4.3GB, DMA66	IDE	Pass
Quantum	CX10200AT	10.2GB, DMA66	IDE	Pass
Quantum	CX13000AT	13GB, DMA66	IDE	Pass
Quantum	KN9100LW	Ultra 3 SCSI 160M	SCSI	Pass
Quantum	PX18200LW	Ultra 2 SCSI	SCSI	Pass



Quantum	TN9100LW	Ultra 3 SCSI 160M	SCSI	Pass
Quantum	XC18300SCA	Ultra 3 SCSI 160M	SCSI	Pass
Seagate	ST118273LW	Ultra 2 SCSI	SCSI	Pass
Seagate	ST34520LW	Ultra 2 SCSI	SCSI	Pass
Seagate	ST39140LW	Ultra 2 SCSI	SCSI	Pass
Seagate	ST336732LC	Ultra 320 36.7G	SCSI	Pass
Western Digital	14300	4.3GB, DMA66	IDE	Pass
Western Digital	WD200AB-00BVA	20GB, DMA66	IDE	Pass
Western Digital	WD200EB	20GB, DMA100	IDE	Pass
Western Digital	WD400BB	40GB, DMA100	IDE	Pass
Western Digital	WDE18310	Ultra 3 SCSI 160M	SCSI	Pass

Note:

### 9.7 Joystick

Vendor	Model No	Interface	Result
Logitech	Wingman	USB	Pass
Microsoft	Side Winder Joystick	USB	Pass

Note:

### 9.8 Keyboard

Vendor	Model No	Interface	Result
ACER	6511-TA	PS/2	Pass
ACER	6311-TW4C	PS2	Pass
BTC	8110M	USB	Pass
BTC	5126	PS2	Pass
BTC	5121	PS2	Pass
BUS LOGIC	BA81C15	PS2	Pass
EENIUS	Net Scroll Wireless	IR	Pass
Genuine	K288	PS/2	Pass
Genuine	K388P	PS2	Pass
K.A.CHEN	KB-7000	PS/2	Pass
LEMEL	KB-5122D-P	PS2	Pass
Logitech	Y-SA2	PS/2	Pass
Microsoft	X03-51764	USB / PS/2	Pass
Microsoft	RT9401	USB / PS/2	Pass
SAMPO	F-21BM	PS2	Pass
Unikey	KWP-840 US	PS2	Pass

Note:





9.9 LAN Card				
Vendor	Model No	Drivers	Type	Result
3 COM	3C905B	PNP	PCI	Pass
3 COM	3C905C	PNP	PCI	Pass
D-Link	DE-530CT+	PNP	PCI	Pass
D-Link	DEF-530TX	PNP	PCI	Pass
D-Link	DEF-550TX	PNP	PCI	Pass
Intel	S82550	PNP	PCI	Pass
Intel	S82559	PNP	PCI	Pass
Intel	Pro/1000XT	PNP	PCI 64	Pass
Realtek	RTL8139B	PNP	PCI	Pass
Realtek	RTL8139C	PNP	PCI	Pass
SysKonnct	SK-9821		PCI 64	Pass
SysKonnct	SK-9822		PCI 64	Pass
SysKonnct	SK-9843 SX		PCI 64	Pass
Note:				
9.10 LAN HUB				
Vendor	Model No		Transfer Rate	Result
3COM 100/10	Switch office400		100/10	Pass
3COM	Super Stack 3		100/1000	Pass
BUFFLO	LSW 10/100-8H		100/10	Pass
D-Link	DE-812TP+		10-Base	Pass
D-Link	DE-805TP		10-Base	Pass
D-Link	DE-809TC		10-Base	Pass
Note:				
9.11 DDR Memory				
Vendor	Model No	Size	Speed	Result
Apacer	Infineon HYB25D128800AT-7A	256M	DDR266/PC2100	Pass
Apacer	Winbond W942508BH-5	512M	DDR400/PC3200	Pass
ATP	SAMSUNG K4H280838B-TCB0	128M	DDR266 ECC	Pass
ATP	SAMSUNG K4H280838B-TCB0	512M	DDR266 ECC	Pass
ATP	SAMSUNG K4H560438D-TCB0	1G	DDR266	Pass
ATP	SAMSUNG K4H560838D-TCB3	256M	DDR333	Pass
ATP	SAMSUNG K4H560838D-TCB3	512M	DDR333	Pass
ATP	SAMSUNG K4H560438D-TCB3	1G	DDR333	Pass
Buffalo	Toshiba TC59WM807BFT-75	512M	DDR266	Pass
Hyundai	Hyundai HY5DU28822T-H	128M	DDR266	Pass



KingMax	KingMax KDL684T4A2A-05	256M	DDR333	Pass
KingMax	KingMax KDL684T4A2A-06	256M	DDR300	Pass
KingMax	KingMax KDL684T4AA-50	128M	DDR400	Pass
Kingston	Mitsubishi M2S12D30TP	1G	DDR266, ECC	Pass
M-tec	M-tec TTD7608F8E75B	512M	DDR266	Pass
NANYA	NT5DS16M8AT-6-CL2.5	512M	DDR333	Pass
NANYA	NANYA NT5DS32M8AT-7K	256M	DDR333	Pass
NANYA	NANYA NT5DS32M8AT-7K	512M	DDR266	Pass
NEC	NEC D45D128842G5-C75-9LG	128M	DDR266	Pass
SAMSUNG	SAMSUNG K4H280838D-TCB4	256M	DDR400	Pass
TOSHIBA	TOSHIBA TC59WM807BFT-70	256M	DDR266	Pass
TwinMOS	SAMSUNG K4H560838C-TCB3	256M	DDR333/PC2700	Pass
TwinMOS	TwinMOS TMD7608F8E50B	256M	DDR400/PC3200	Pass
Value RAM	Infineon HYB25D256800BT-7	512M	DDR266	Pass

Note:

### 9.12 Modem

Vendor	Model No	Type	Result
ADI	MDX-56KRE	External	Pass
ADI	NW58-11	External	Pass
Aopen	C1701	External	Pass
GVC	FM-56PCI	External	Pass

Note:

### 9.13 Monitor

Vendor	Model No	Size	Type	Result
ADi	Micro Scan	15"	CRT	Pass
GENUINE	G585	14"	CRT	Pass
View Sonic	VX500	15"	LCD	Pass
View Sonic	E653	15"	CRT	Pass
SAMPO	Alpha scan 521a	15"	CRT	Pass
View Sonic	17GA	17"	CRT	Pass
View Sonic	GF775	17"	CRT	Pass
View Sonic	PS775	17"	CRT	Pass
View Sonic	E70	17"	CRT	Pass
PHILIPS	107MP	17"	CRT	Pass
SAMPO	Alpha Scan 761	17"	CRT	Pass
SAMPO	Alpha Scan 712 a	17"	CRT	Pass

Note:



9.14 Mouse			
Vendor	Model No	Interface	Result
Aero	IM-PC20	Serial	Pass
ARTEC	ITEUEC 19604966	PS2	Pass
DEXIN	MA21	PS2	Pass
DEXIN	A2U800A	USB	Pass
GENUINE	K3P400A	PS2	Pass
Logitech	Cordless Freedom Navigator	USB; PS2	Pass
Logitech	Cordless Wheel	PS2	Pass
Logitech	M-MM43	Serial	Pass
Logitech	M-S43	PS2	Pass
NEC		PS2	Pass
QTRONIX		PS2	Pass
Venus		Serial	Pass
Venus		Serial	Pass
X'TEC		Serial	Pass
Note:			
9.15 Power Supply			
Vendor	Model No	Type	Result
Enermax	EG301P-V	300W	Pass
Enermax	EG351P-V	350W	Pass
ENLIGHT	HPS-300-101	300W	Pass
DDA	ATX-300T	300W	Pass
DELTA	DPS-300KB-1A	300W	Pass
FRD	LC-A350ATX	350W	Pass
GIWELL	CWT-300ATX12	300W	Pass
Hi-Cute	AL-300P4	300W	Pass
Hi-Cute	CWT-375ATX12	375W	Pass
Hi-Cute	CWT-420ATX12	420W	Pass
iCute	P4-300TC	300W	Pass
Matrix	MA300-VA	300W	Pass
Matrix	MA350-VA	350W	Pass
Matrix	MA400-VA	400W	Pass
Matrix	MA450-VA	450W	Pass
Seasonic	SS-300FS	300W	Pass
Seasonic	SS-350FS	350W	Pass
Seasonic	SS-400FS	400W	Pass



Seasonic	SR-300FS	400W	Pass
Seventeam	ST-300BLV	300W	Pass
Seventeam	ST-301HR	300W	Pass
Seventeam	ST-350GL	350W	Pass
Seventeam	ST-400GL	400W	Pass
Seventeam	ST-460EUS	460W	Pass
Snake	TC-300P ATX	300W	Pass
Snake	TC-350P ATX	350W	Pass
Snake	TC-400P ATX	400W	Pass

Note:

### 9.16 Printer

Vendor	Model No	Interface	Result
HP	Laser 5MP	LPT	Pass
EPSON	EPL5800L	USB 2.0	Pass

Note:

### 9.17 ZCR RAID Card

Vendor	Model No	Interface	Result
Adaptec	ASR-3010S	PCI-X (64)	Pass

Note:

### 9.18 Scanner

Vendor	Model No	Interface	Result
Plustek	OpticPro 9636T	LPT	Pass
UMAX	Astra 1220S	SCSI	Pass
HP	ScanJet 5200C	USB; Print Port	Pass
HP	ScanJet 3400C	USB; Print Port	Pass

Note:

### 9.19 SCSI Card

Vendor	Model No	Type	Result
Adaptec	AHA-3950U2B	PCI	Pass
Adaptec	ASC-39160	PCI 64	Pass
Advansys	ABP-940/70UW70	PCI	Pass
Adaptec	ASR-3210S	PCI-X (64)	Pass
Iwill	SIDE-2930C	PCI	Pass



Iwill	SIDE DU3160	PCI 64	Pass
Tekram	DC-390U2B	PCI	Pass
Tekram	DC-395UW	PCI	Pass
Tekram	DC310/310U	PCI	Pass
Tekram	DC-390U2W	PCI	Pass
Tekram	DC-390F	PCI	Pass

Note:

### 9.20 Sound Card

Vendor	Model No	Interface	Result
Aureal	Vortex	PCI	Pass
CMI	8738	PCI	Pass
Creative	Sound Blaster Live	PCI	Pass
Creative	Sound Blaster Audigy	PCI	Pass
Creative	Sound Blaster 5.1	PCI	Pass
Top Solution	Xwave	PCI	Pass
Top Solution	Live 6CH	PCI	Pass

Note:

### 9.21 USB Device

Vendor	Model No	Result
Adaptec	XHUB4+ (USB2.0 HUB)	Pass
Canon	Power Shot S40	Pass
D-Link	USB HUB	Pass
EPSON	EPL5800L (USB2.0 Printer)	Pass
EPSON	PERFECTION 2450 (USB2.0 Scanner)	Pass
Fujitsu	USB 1300 MO (USB2.0 MO)	Pass
Genuine	USB/PS2 Mouse	Pass
IBM	IC25N020ATDA04-0 (USB2.0 HDD)	Pass
Iwill	Pen Drive (USB 1.1)	Pass
Iwill	e-Box (USB2.0 mini HDD)	Pass
JS	J6502 (USB Speakers)	Pass
Plextor	PX-S88TU (USB 2.0 CD-RW)	Pass
QTRPNIX	Scorpius 980N (USB Keyboard)	Pass
Mitsumi	D353GUE (USB Floppy)	Pass
Logitech	M-UB48 (USB Keyboard)	Pass
Chicony	KU-8933 (USB Keyboard)	Pass
BTC	7932 (USB Keyboard)	Pass
ACK	ACK-298 (USB Keyboard)	Pass
LifeView	RoboCam	Pass



Logitech	QuickCam PRO	Pass		
ASUS	CD-RW 40x 12x 48x (USB2.0)	Pass		
Iomega	ZIP Z750USB (USB2.0)	Pass		
Note:				
<b>9.22 ZIP/LS120</b>				
<b>Vendor</b>	<b>Model</b>	<b>Size</b>	<b>Type</b>	<b>Result</b>
Iomega	DDXZ100S2	100MB	ZIP	Pass
Iomega	Z250P	250MB	ZIP	Pass
Iomega	Z750USB	750MB	USB2.0	Pass
Note:				