



**National Semiconductor Corporation
Radiation Effects Laboratory
South Portland, Maine 04106**

ANALOG TOTAL DOSE RADIATION REPORT

Customer: Rad Qual

Part Type: RM137HPQMLV

Input Bias Circuit: 9945 IR

Dose Rate: 53.268 rad(Si)/sec

Test Program Used: RH00137HYD

Tester: L.Collins

Wafer Run Number: JM046X22

Wafer Number: 2

Package Type: HT039003

Production Lot #: 172526G019

IPI #: N/A

Disposition: PASSES

Summary:

Passes Room Temp @: 30k

Part Out of Room Temp Spec @: 50k

Functional Failed @: 50k

Parameters over Limit: IADJ; Delta IADJ (Line); IQ; VO;

VRLINE; VRTH; VOUT6 (Recov); Line Transient Response

Review By: Mike Maher

Reviewed By QA: Mike Maher – August 03, 2004

Note:

These parts may be dose rate sensitive in a space environment and demonstrate enhanced low dose rate effect.

**Standard Test Flow Sheet For Rad Testing
Customer Special Attachment
Rad Hard Linear**

NSID# RM137HPQMLV

LOT# 172526G019

IPI# N/A

Test Program: RH00137HYD

Machine: LTX 01-03

Operator: D0226

Bias Board: 9945 IR

Start Time: 1:21 P.M

Finish Time: 2:49 P.M

Start Date: 30/July/2004

Finish Date: 30/July/2004

QA: August 03, 2004

Control Units s/n: #1002 #1003

Duts : #1004 #1005 #1006 #1007 #1008 #1009

Location Step	Operation Mtd/Cond	Qty In	Qty Out	Var	Mech	Rej	FF
PASS	Pre - Rad Read/Rec. Tp1	6	6	0	0	0	0
	<i>Irradiation</i> <i>3k</i> <i>Level</i>	6	6	0	0	N/A	N/A
PASS	Post Rad Read/Rec. Tp2	6	6	0	0	0	0
	<i>Irradiation</i> <i>10k</i> <i>Level</i>	6	6	0	0	N/A	N/A
PASS	Post Rad Read/Rec. Tp3	6	6	0	0	0	0

Standard Test Flow Sheet For Rad Testing
Customer Special Attachment
Rad Hard Linear

NSID# RM137HPQMLV

LOT# 172526G019

IPI# N/A

Location Step	Operation Mtd/Cond	Qty In	Qty Out	Var	Mech	Rej	FF
	<i>Irradiation</i> <i>30k</i> <i>Level</i>	6	6	0	0	N/A	N/A
PASS	Post Rad Read/Rec. Tp4	6	6	0	0	0	0
	<i>Irradiation</i> <i>50k</i> <i>Level</i>	6	6	0	0	N/A	N/A
FAIL	Post Rad Read/Rec. Tp5	6	0	0	0	0	6
	<i>Irradiation</i> <i>80k</i> <i>Level</i>	6	6	0	0	N/A	N/A
FAIL	Post Rad Read/Rec. Tp6	6	0	0	0	0	6

Note: All irradiation's are done per MAS-5010

OK

172526G019

DEVICE	1002	BIN	1	HEAD 3	01:21 PM	07/30/2004
700.0	0	800.0	25 DGR	98.0	0.92 V	
11.0	62.7 UA	12.0	64.3 UA	13.0	-1.65 UA	
15.0	-0.08 UA	20.0	0.70 MA	21.0	0.63 MA	
22.0	1.93 MA	1.0	-1.257 V	2.0	-1.252 V	
3.0	-1.259 V	4.0	-1.255 V	5.0	1.4 MV	
7.0	-4.0 MV	8.0	-4.0 MV	9.0	-1.3 MV	
10.0	-0.58 MV	70.0	40.4 UV	71.0	44.5 MV	
72.0	10.4 MV	69.0	56.87 DB	16.0	1.06 A	
17.0	-1.258 V	18.0	0.318 A	19.0	-1.259 V	
23.0	-1.252 V					

DEVICE	1003	BIN	1	HEAD 3	01:22 PM	07/30/2004
700.0	0	800.0	25 DGR	98.0	0.92 V	
11.0	63.6 UA	12.0	65.3 UA	13.0	-1.68 UA	
15.0	-0.09 UA	20.0	0.71 MA	21.0	0.64 MA	
22.0	1.60 MA	1.0	-1.264 V	2.0	-1.257 V	
3.0	-1.265 V	4.0	-1.261 V	5.0	1.6 MV	
7.0	-5.2 MV	8.0	-4.3 MV	9.0	-2.0 MV	
10.0	-0.56 MV	70.0	40.6 UV	71.0	45.3 MV	
72.0	10.4 MV	69.0	56.62 DB	16.0	1.06 A	
17.0	-1.264 V	18.0	0.316 A	19.0	-1.266 V	
23.0	-1.258 V					

DEVICE	1004	BIN	1	HEAD 3	01:22 PM	07/30/2004
700.0	0	800.0	25 DGR	98.0	0.92 V	
11.0	62.5 UA	12.0	64.0 UA	13.0	-1.53 UA	
15.0	-0.09 UA	20.0	0.72 MA	21.0	0.64 MA	
22.0	1.70 MA	1.0	-1.261 V	2.0	-1.253 V	
3.0	-1.262 V	4.0	-1.258 V	5.0	1.5 MV	
7.0	-6.6 MV	8.0	-4.5 MV	9.0	-2.5 MV	
10.0	-0.85 MV	70.0	40.8 UV	71.0	47.8 MV	
72.0	8.4 MV	69.0	56.67 DB	16.0	1.08 A	
17.0	-1.261 V	18.0	0.328 A	19.0	-1.263 V	
23.0	-1.251 V					

DEVICE	1005	BIN	1	HEAD 3	01:22 PM	07/30/2004
700.0	0	800.0	25 DGR	98.0	0.91 V	
11.0	62.4 UA	12.0	64.0 UA	13.0	-1.58 UA	
15.0	-0.09 UA	20.0	0.70 MA	21.0	0.62 MA	
22.0	1.88 MA	1.0	-1.258 V	2.0	-1.250 V	
3.0	-1.259 V	4.0	-1.255 V	5.0	1.5 MV	
7.0	-6.1 MV	8.0	-4.2 MV	9.0	-2.2 MV	
10.0	-1.22 MV	70.0	41.2 UV	71.0	47.2 MV	
72.0	7.8 MV	69.0	56.87 DB	16.0	1.07 A	
17.0	-1.258 V	18.0	0.326 A	19.0	-1.259 V	
23.0	-1.251 V					

DEVICE	1006	BIN	1	HEAD 3	01:23 PM	07/30/2004
700.0	0	800.0	25 DGR	98.0	0.92 V	
11.0	63.2 UA	12.0	64.9 UA	13.0	-1.67 UA	
15.0	-0.10 UA	20.0	0.70 MA	21.0	0.62 MA	
22.0	1.74 MA	1.0	-1.258 V	2.0	-1.248 V	
3.0	-1.260 V	4.0	-1.256 V	5.0	1.6 MV	
7.0	-10.0 MV	8.0	-4.2 MV	9.0	-3.8 MV	
10.0	-1.74 MV	70.0	40.7 UV	71.0	42.3 MV	
72.0	9.3 MV	69.0	56.79 DB	16.0	1.07 A	
17.0	-1.258 V	18.0	0.324 A	19.0	-1.260 V	
23.0	-1.246 V					

DEVICE	1007	BIN	1	HEAD 3	01:23 PM	07/30/2004
700.0	0	800.0	25 DGR	98.0	0.92 V	
11.0	63.1 UA	12.0	64.7 UA	13.0	-1.65 UA	
15.0	-0.11 UA	20.0	0.74 MA	21.0	0.64 MA	
22.0	1.74 MA	1.0	-1.262 V	2.0	-1.253 V	
3.0	-1.263 V	4.0	-1.259 V	5.0	1.5 MV	
7.0	-7.2 MV	8.0	-4.5 MV	9.0	-2.7 MV	
10.0	-1.54 MV	70.0	41.2 UV	71.0	42.4 MV	
72.0	8.7 MV	69.0	56.66 DB	16.0	1.06 A	
17.0	-1.262 V	18.0	0.319 A	19.0	-1.264 V	
23.0	-1.254 V					

DEVICE	1009	BIN	1	HEAD 3	01:23 PM	07/30/2004
700.0	0	800.0	25 DGR	98.0	0.92 V	
11.0	63.0 UA	12.0	64.7 UA	13.0	-1.65 UA	
15.0	-0.11 UA	20.0	0.71 MA	21.0	0.63 MA	
22.0	3.67 MA	1.0	-1.262 V	2.0	-1.255 V	
3.0	-1.264 V	4.0	-1.260 V	5.0	1.6 MV	
7.0	-6.0 MV	8.0	-4.4 MV	9.0	-2.3 MV	
10.0	-1.39 MV	70.0	41.2 UV	71.0	43.6 MV	
72.0	7.8 MV	69.0	56.74 DB	16.0	1.06 A	
17.0	-1.263 V	18.0	0.319 A	19.0	-1.264 V	
23.0	-1.255 V					

DEVICE	1010	BIN	1	HEAD 3	01:24 PM	07/30/2004
700.0	0	800.0	25 DGR	98.0	0.93 V	
11.0	62.7 UA	12.0	64.3 UA	13.0	-1.62 UA	
15.0	-0.07 UA	20.0	0.71 MA	21.0	0.63 MA	
22.0	1.99 MA	1.0	-1.256 V	2.0	-1.251 V	
3.0	-1.258 V	4.0	-1.254 V	5.0	1.4 MV	
7.0	-4.7 MV	8.0	-4.1 MV	9.0	-1.8 MV	
10.0	-0.98 MV	70.0	41.5 UV	71.0	43.4 MV	
72.0	7.5 MV	69.0	56.77 DB	16.0	1.08 A	
17.0	-1.257 V	18.0	0.335 A	19.0	-1.258 V	
23.0	-1.251 V					

3K**172526G019**

DEVICE	1002	BIN	1	HEAD 3	01:33 PM	07/30/2004
700.0	0	800.0	25 DGR	98.0	0.92 V	
11.0	62.7 UA	12.0	64.3 UA	13.0	-1.61 UA	
15.0	-0.09 UA	20.0	0.69 MA	21.0	0.62 MA	
22.0	2.18 MA	1.0	-1.257 V	2.0	-1.252 V	
3.0	-1.259 V	4.0	-1.255 V	5.0	1.6 MV	
7.0	-4.4 MV	8.0	-4.1 MV	9.0	-1.8 MV	
10.0	-1.02 MV	70.0	40.5 UV	71.0	46.5 MV	
72.0	7.4 MV	69.0	56.86 DB	16.0	1.06 A	
17.0	-1.258 V	18.0	0.318 A	19.0	-1.259 V	
23.0	-1.252 V					

DEVICE	1003	BIN	1	HEAD 3	01:33 PM	07/30/2004
700.0	0	800.0	25 DGR	98.0	0.92 V	
11.0	63.6 UA	12.0	65.3 UA	13.0	-1.70 UA	
15.0	-0.08 UA	20.0	0.70 MA	21.0	0.63 MA	
22.0	1.72 MA	1.0	-1.264 V	2.0	-1.255 V	
3.0	-1.265 V	4.0	-1.261 V	5.0	1.4 MV	
7.0	-7.4 MV	8.0	-4.4 MV	9.0	-2.8 MV	
10.0	-1.39 MV	70.0	40.4 UV	71.0	46.7 MV	
72.0	10.7 MV	69.0	56.62 DB	16.0	1.06 A	
17.0	-1.264 V	18.0	0.316 A	19.0	-1.266 V	
23.0	-1.256 V					

DEVICE	1004	BIN	1	HEAD 3	01:34 PM	07/30/2004
700.0	0	800.0	25 DGR	98.0	0.92 V	
11.0	62.2 UA	12.0	63.7 UA	13.0	-1.53 UA	
15.0	-0.08 UA	20.0	0.71 MA	21.0	0.62 MA	
22.0	1.85 MA	1.0	-1.261 V	2.0	-1.250 V	
3.0	-1.263 V	4.0	-1.258 V	5.0	1.5 MV	
7.0	-9.2 MV	8.0	-4.7 MV	9.0	-3.5 MV	
10.0	-1.52 MV	70.0	41.0 UV	71.0	45.1 MV	
72.0	9.0 MV	69.0	56.71 DB	16.0	1.08 A	
17.0	-1.261 V	18.0	0.335 A	19.0	-1.263 V	
23.0	-1.251 V					

DEVICE	1005	BIN	1	HEAD 3	01:34 PM	07/30/2004
700.0	0	800.0	25 DGR	98.0	0.92 V	
11.0	62.1 UA	12.0	63.7 UA	13.0	-1.59 UA	
15.0	-0.10 UA	20.0	0.69 MA	21.0	0.60 MA	
22.0	1.97 MA	1.0	-1.258 V	2.0	-1.249 V	
3.0	-1.259 V	4.0	-1.255 V	5.0	1.5 MV	
7.0	-8.1 MV	8.0	-4.6 MV	9.0	-3.0 MV	
10.0	-1.51 MV	70.0	41.8 UV	71.0	41.7 MV	
72.0	8.8 MV	69.0	56.88 DB	16.0	1.07 A	
17.0	-1.258 V	18.0	0.333 A	19.0	-1.259 V	
23.0	-1.250 V					

DEVICE	1006	BIN	1	HEAD 3	01:34 PM	07/30/2004
700.0	0	800.0	25 DGR	98.0	0.92 V	
11.0	62.9 UA	12.0	64.5 UA	13.0	-1.66 UA	
15.0	-0.11 UA	20.0	0.71 MA	21.0	0.63 MA	
22.0	1.71 MA	1.0	-1.258 V	2.0	-1.248 V	
3.0	-1.259 V	4.0	-1.255 V	5.0	1.4 MV	
7.0	-8.8 MV	8.0	-4.4 MV	9.0	-3.2 MV	
10.0	-1.56 MV	70.0	40.4 UV	71.0	40.0 MV	
72.0	9.0 MV	69.0	56.78 DB	16.0	1.07 A	
17.0	-1.258 V	18.0	0.332 A	19.0	-1.260 V	
23.0	-1.249 V					

DEVICE	1007	BIN	1	HEAD 3	01:35 PM	07/30/2004
700.0	0	800.0	25 DGR	98.0	0.93 V	
11.0	62.8 UA	12.0	64.4 UA	13.0	-1.65 UA	
15.0	-0.07 UA	20.0	0.74 MA	21.0	0.64 MA	
22.0	1.69 MA	1.0	-1.262 V	2.0	-1.253 V	
3.0	-1.263 V	4.0	-1.259 V	5.0	1.5 MV	
7.0	-7.8 MV	8.0	-4.6 MV	9.0	-2.9 MV	
10.0	-1.38 MV	70.0	40.8 UV	71.0	34.4 MV	
72.0	8.6 MV	69.0	56.64 DB	16.0	1.06 A	
17.0	-1.262 V	18.0	0.327 A	19.0	-1.264 V	
23.0	-1.253 V					

DEVICE	1009	BIN	1	HEAD 3	01:35 PM	07/30/2004
700.0	0	800.0	25 DGR	98.0	0.92 V	
11.0	62.6 UA	12.0	64.3 UA	13.0	-1.68 UA	
15.0	-0.11 UA	20.0	0.70 MA	21.0	0.62 MA	
22.0	1.80 MA	1.0	-1.263 V	2.0	-1.256 V	
3.0	-1.264 V	4.0	-1.260 V	5.0	1.5 MV	
7.0	-5.2 MV	8.0	-4.5 MV	9.0	-1.9 MV	
10.0	-1.27 MV	70.0	40.8 UV	71.0	36.1 MV	
72.0	7.6 MV	69.0	56.80 DB	16.0	1.07 A	
17.0	-1.263 V	18.0	0.325 A	19.0	-1.265 V	
23.0	-1.257 V					

DEVICE	1010	BIN	1	HEAD 3	01:35 PM	07/30/2004
700.0	0	800.0	25 DGR	98.0	0.92 V	
11.0	62.4 UA	12.0	64.0 UA	13.0	-1.63 UA	
15.0	-0.10 UA	20.0	0.68 MA	21.0	0.61 MA	
22.0	1.85 MA	1.0	-1.256 V	2.0	-1.251 V	
3.0	-1.258 V	4.0	-1.254 V	5.0	1.6 MV	
7.0	-3.9 MV	8.0	-4.1 MV	9.0	-1.3 MV	
10.0	-1.03 MV	70.0	40.9 UV	71.0	42.3 MV	
72.0	7.1 MV	69.0	56.84 DB	16.0	1.08 A	
17.0	-1.257 V	18.0	0.343 A	19.0	-1.258 V	
23.0	-1.252 V					

10K**172526G019**

DEVICE	1002	BIN	1	HEAD 3	01:44 PM	07/30/2004
700.0	0	800.0	25 DGR	98.0	0.92 V	
11.0	62.7 UA	12.0	64.3 UA	13.0	-1.60 UA	
15.0	-0.09 UA	20.0	0.70 MA	21.0	0.62 MA	
22.0	1.76 MA	1.0	-1.257 V	2.0	-1.251 V	
3.0	-1.259 V	4.0	-1.255 V	5.0	1.6 MV	
7.0	-4.8 MV	8.0	-3.9 MV	9.0	-1.9 MV	
10.0	-1.03 MV	70.0	41.9 UV	71.0	44.1 MV	
72.0	7.9 MV	69.0	56.83 DB	16.0	1.06 A	
17.0	-1.257 V	18.0	0.318 A	19.0	-1.259 V	
23.0	-1.252 V					

DEVICE	1003	BIN	1	HEAD 3	01:44 PM	07/30/2004
700.0	0	800.0	25 DGR	98.0	0.92 V	
11.0	63.6 UA	12.0	65.3 UA	13.0	-1.68 UA	
15.0	-0.07 UA	20.0	0.72 MA	21.0	0.63 MA	
22.0	1.49 MA	1.0	-1.264 V	2.0	-1.257 V	
3.0	-1.265 V	4.0	-1.261 V	5.0	1.6 MV	
7.0	-5.2 MV	8.0	-4.3 MV	9.0	-2.0 MV	
10.0	-1.25 MV	70.0	41.0 UV	71.0	40.2 MV	
72.0	8.4 MV	69.0	56.61 DB	16.0	1.06 A	
17.0	-1.264 V	18.0	0.316 A	19.0	-1.265 V	
23.0	-1.258 V					

DEVICE	1004	BIN	1	HEAD 3	01:45 PM	07/30/2004
700.0	0	800.0	25 DGR	98.0	0.93 V	
11.0	61.8 UA	12.0	63.4 UA	13.0	-1.57 UA	
15.0	-0.10 UA	20.0	0.71 MA	21.0	0.63 MA	
22.0	1.52 MA	1.0	-1.261 V	2.0	-1.252 V	
3.0	-1.262 V	4.0	-1.258 V	5.0	1.4 MV	
7.0	-7.1 MV	8.0	-4.4 MV	9.0	-2.6 MV	
10.0	-0.61 MV	70.0	41.5 UV	71.0	37.6 MV	
72.0	8.1 MV	69.0	56.86 DB	16.0	1.08 A	
17.0	-1.261 V	18.0	0.346 A	19.0	-1.263 V	
23.0	-1.253 V					

DEVICE	1005	BIN	1	HEAD 3	01:45 PM	07/30/2004
700.0	0	800.0	25 DGR	98.0	0.93 V	
11.0	61.7 UA	12.0	63.4 UA	13.0	-1.67 UA	
15.0	-0.13 UA	20.0	0.69 MA	21.0	0.62 MA	
22.0	1.72 MA	1.0	-1.257 V	2.0	-1.251 V	
3.0	-1.259 V	4.0	-1.255 V	5.0	1.7 MV	
7.0	-5.6 MV	8.0	-4.3 MV	9.0	-2.1 MV	
10.0	-1.26 MV	70.0	42.3 UV	71.0	38.3 MV	
72.0	10.2 MV	69.0	57.04 DB	16.0	1.08 A	
17.0	-1.258 V	18.0	0.345 A	19.0	-1.259 V	
23.0	-1.251 V					

DEVICE	1006	BIN	1	HEAD 3	01:45 PM	07/30/2004
700.0	0	800.0	25 DGR	98.0	0.93 V	
11.0	62.4 UA	12.0	64.2 UA	13.0	-1.72 UA	
15.0	-0.10 UA	20.0	0.60 MA	21.0	0.57 MA	
22.0	1.76 MA	1.0	-1.258 V	2.0	-1.251 V	
3.0	-1.259 V	4.0	-1.255 V	5.0	1.7 MV	
7.0	-4.8 MV	8.0	-4.2 MV	9.0	-1.7 MV	
10.0	-1.15 MV	70.0	40.8 UV	71.0	32.8 MV	
72.0	7.1 MV	69.0	56.95 DB	16.0	1.07 A	
17.0	-1.258 V	18.0	0.346 A	19.0	-1.259 V	
23.0	-1.252 V					

DEVICE	1007	BIN	1	HEAD 3	01:46 PM	07/30/2004
700.0	0	800.0	25 DGR	98.0	0.93 V	
11.0	62.3 UA	12.0	64.0 UA	13.0	-1.71 UA	
15.0	-0.09 UA	20.0	0.68 MA	21.0	0.62 MA	
22.0	1.65 MA	1.0	-1.261 V	2.0	-1.248 V	
3.0	-1.263 V	4.0	-1.258 V	5.0	1.6 MV	
7.0	-11.5 MV	8.0	-4.9 MV	9.0	-4.5 MV	
10.0	-1.83 MV	70.0	40.9 UV	71.0	32.7 MV	
72.0	10.7 MV	69.0	56.80 DB	16.0	1.06 A	
17.0	-1.262 V	18.0	0.337 A	19.0	-1.264 V	
23.0	-1.250 V					

DEVICE	1009	BIN	1	HEAD 3	01:46 PM	07/30/2004
700.0	0	800.0	25 DGR	98.0	0.93 V	
11.0	62.2 UA	12.0	63.9 UA	13.0	-1.70 UA	
15.0	-0.10 UA	20.0	0.65 MA	21.0	0.60 MA	
22.0	2.12 MA	1.0	-1.262 V	2.0	-1.255 V	
3.0	-1.264 V	4.0	-1.260 V	5.0	1.5 MV	
7.0	-5.3 MV	8.0	-4.0 MV	9.0	-1.9 MV	
10.0	-0.84 MV	70.0	41.5 UV	71.0	35.2 MV	
72.0	8.0 MV	69.0	56.95 DB	16.0	1.07 A	
17.0	-1.263 V	18.0	0.336 A	19.0	-1.264 V	
23.0	-1.257 V					

DEVICE	1010	BIN	1	HEAD 3	01:46 PM	07/30/2004
700.0	0	800.0	25 DGR	98.0	0.93 V	
11.0	62.0 UA	12.0	63.7 UA	13.0	-1.67 UA	
15.0	-0.10 UA	20.0	0.69 MA	21.0	0.62 MA	
22.0	3.60 MA	1.0	-1.256 V	2.0	-1.247 V	
3.0	-1.258 V	4.0	-1.253 V	5.0	1.6 MV	
7.0	-7.7 MV	8.0	-4.5 MV	9.0	-2.9 MV	
10.0	-1.08 MV	70.0	41.3 UV	71.0	40.0 MV	
72.0	21.1 MV	69.0	56.99 DB	16.0	1.09 A	
17.0	-1.256 V	18.0	0.355 A	19.0	-1.258 V	
23.0	-1.248 V					

30K**172526G019**

DEVICE	1002	BIN	1	HEAD 3	02:02 PM	07/30/2004
700.0	0	800.0	25 DGR	98.0	0.92 V	
11.0	62.7 UA	12.0	64.3 UA	13.0	-1.63 UA	
15.0	-0.10 UA	20.0	0.63 MA	21.0	0.57 MA	
22.0	1.86 MA	1.0	-1.257 V	2.0	-1.250 V	
3.0	-1.259 V	4.0	-1.255 V	5.0	1.7 MV	
7.0	-5.8 MV	8.0	-4.0 MV	9.0	-2.4 MV	
10.0	-1.34 MV	70.0	40.9 UV	71.0	48.1 MV	
72.0	7.8 MV	69.0	56.86 DB	16.0	1.06 A	
17.0	-1.258 V	18.0	0.318 A	19.0	-1.259 V	
23.0	-1.251 V					

DEVICE	1003	BIN	1	HEAD 3	02:02 PM	07/30/2004
700.0	0	800.0	25 DGR	98.0	0.92 V	
11.0	63.6 UA	12.0	65.3 UA	13.0	-1.65 UA	
15.0	-0.10 UA	20.0	0.56 MA	21.0	0.57 MA	
22.0	1.95 MA	1.0	-1.264 V	2.0	-1.256 V	
3.0	-1.265 V	4.0	-1.261 V	5.0	1.5 MV	
7.0	-5.8 MV	8.0	-4.4 MV	9.0	-2.2 MV	
10.0	-1.35 MV	70.0	40.5 UV	71.0	46.6 MV	
72.0	8.4 MV	69.0	56.62 DB	16.0	1.06 A	
17.0	-1.264 V	18.0	0.316 A	19.0	-1.265 V	
23.0	-1.257 V					

DEVICE	1004	BIN	1	HEAD 3	02:02 PM	07/30/2004
700.0	0	800.0	25 DGR	98.0	0.94 V	
11.0	61.1 UA	12.0	64.1 UA	13.0	-2.99 UA	
15.0	-0.10 UA	20.0	0.68 MA	21.0	0.60 MA	
22.0	1.39 MA	1.0	-1.260 V	2.0	-1.252 V	
3.0	-1.262 V	4.0	-1.258 V	5.0	2.2 MV	
7.0	-6.8 MV	8.0	-4.4 MV	9.0	-2.5 MV	
10.0	-1.28 MV	70.0	41.9 UV	71.0	32.6 MV	
72.0	7.5 MV	69.0	57.04 DB	16.0	1.08 A	
17.0	-1.261 V	18.0	0.363 A	19.0	-1.263 V	
23.0	-1.254 V					

DEVICE	1005	BIN	1	HEAD 3	02:02 PM	07/30/2004
700.0	0	800.0	25 DGR	98.0	0.94 V	
11.0	61.0 UA	12.0	65.8 UA	13.0	-4.72 UA	
15.0	-0.12 UA	20.0	0.65 MA	21.0	0.60 MA	
22.0	1.73 MA	1.0	-1.257 V	2.0	-1.252 V	
3.0	-1.258 V	4.0	-1.254 V	5.0	1.0 MV	
7.0	-4.4 MV	8.0	-4.1 MV	9.0	-1.6 MV	
10.0	-1.00 MV	70.0	41.8 UV	71.0	30.2 MV	
72.0	7.5 MV	69.0	57.22 DB	16.0	1.07 A	
17.0	-1.257 V	18.0	0.363 A	19.0	-1.258 V	
23.0	-1.252 V					

DEVICE	1006	BIN	1	HEAD 3	02:03 PM	07/30/2004
700.0	0	800.0	25 DGR	98.0	0.95 V	
11.0	61.7 UA	12.0	64.5 UA	13.0	-2.86 UA	
15.0	-0.08 UA	20.0	0.70 MA	21.0	0.61 MA	
22.0	1.76 MA	1.0	-1.257 V	2.0	-1.249 V	
3.0	-1.259 V	4.0	-1.255 V	5.0	2.0 MV	
7.0	-6.7 MV	8.0	-4.4 MV	9.0	-2.5 MV	
10.0	-1.39 MV	70.0	41.4 UV	71.0	27.1 MV	
72.0	8.6 MV	69.0	57.15 DB	16.0	1.07 A	
17.0	-1.257 V	18.0	0.364 A	19.0	-1.259 V	
23.0	-1.250 V					

DEVICE	1007	BIN	1	HEAD 3	02:03 PM	07/30/2004
700.0	0	800.0	25 DGR	98.0	0.94 V	
11.0	61.6 UA	12.0	64.0 UA	13.0	-2.42 UA	
15.0	-0.11 UA	20.0	0.70 MA	21.0	0.62 MA	
22.0	1.62 MA	1.0	-1.261 V	2.0	-1.251 V	
3.0	-1.263 V	4.0	-1.259 V	5.0	1.8 MV	
7.0	-8.9 MV	8.0	-3.8 MV	9.0	-3.3 MV	
10.0	-1.39 MV	70.0	41.3 UV	71.0	29.1 MV	
72.0	9.3 MV	69.0	56.99 DB	16.0	1.06 A	
17.0	-1.262 V	18.0	0.356 A	19.0	-1.263 V	
23.0	-1.253 V					

DEVICE	1009	BIN	1	HEAD 3	02:03 PM	07/30/2004
700.0	0	800.0	25 DGR	98.0	0.94 V	
11.0	61.4 UA	12.0	63.5 UA	13.0	-2.10 UA	
15.0	-0.11 UA	20.0	0.69 MA	21.0	0.59 MA	
22.0	1.90 MA	1.0	-1.262 V	2.0	-1.255 V	
3.0	-1.263 V	4.0	-1.259 V	5.0	1.7 MV	
7.0	-5.6 MV	8.0	-4.2 MV	9.0	-2.0 MV	
10.0	-1.23 MV	70.0	41.6 UV	71.0	26.7 MV	
72.0	8.2 MV	69.0	57.15 DB	16.0	1.07 A	
17.0	-1.262 V	18.0	0.353 A	19.0	-1.264 V	
23.0	-1.255 V					

DEVICE	1010	BIN	1	HEAD 3	02:04 PM	07/30/2004
700.0	0	800.0	25 DGR	98.0	0.95 V	
11.0	61.3 UA	12.0	64.6 UA	13.0	-3.31 UA	
15.0	-0.08 UA	20.0	0.68 MA	21.0	0.61 MA	
22.0	1.93 MA	1.0	-1.256 V	2.0	-1.250 V	
3.0	-1.258 V	4.0	-1.254 V	5.0	2.3 MV	
7.0	-4.5 MV	8.0	-4.3 MV	9.0	-1.5 MV	
10.0	-1.10 MV	70.0	41.6 UV	71.0	33.5 MV	
72.0	7.5 MV	69.0	57.17 DB	16.0	1.08 A	
17.0	-1.256 V	18.0	0.376 A	19.0	-1.258 V	
23.0	-1.250 V					

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DEVICE	1002	BIN	1	HEAD 3	02:18 PM	07/30/2004
700.0	0	800.0	25 DGR	98.0	0.92 V	
11.0	62.7 UA	12.0	64.3 UA	13.0	-1.62 UA	
15.0	-0.10 UA	20.0	0.71 MA	21.0	0.62 MA	
22.0	1.82 MA	1.0	-1.257 V	2.0	-1.251 V	
3.0	-1.259 V	4.0	-1.255 V	5.0	1.4 MV	
7.0	-5.0 MV	8.0	-4.0 MV	9.0	-1.7 MV	
10.0	-0.96 MV	70.0	40.2 UV	71.0	45.4 MV	
72.0	7.3 MV	69.0	56.87 DB	16.0	1.06 A	
17.0	-1.258 V	18.0	0.318 A	19.0	-1.259 V	
23.0	-1.252 V					

DEVICE	1003	BIN	1	HEAD 3	02:18 PM	07/30/2004
700.0	0	800.0	25 DGR	98.0	0.92 V	
11.0	63.6 UA	12.0	65.3 UA	13.0	-1.66 UA	
15.0	-0.09 UA	20.0	0.72 MA	21.0	0.63 MA	
22.0	1.83 MA	1.0	-1.264 V	2.0	-1.258 V	
3.0	-1.265 V	4.0	-1.261 V	5.0	1.6 MV	
7.0	-4.2 MV	8.0	-4.2 MV	9.0	-1.2 MV	
10.0	-1.21 MV	70.0	40.3 UV	71.0	41.8 MV	
72.0	7.9 MV	69.0	56.61 DB	16.0	1.06 A	
17.0	-1.264 V	18.0	0.316 A	19.0	-1.266 V	
23.0	-1.258 V					

DEVICE	1004	BIN	32	HEAD 3	02:19 PM	07/30/2004
700.0	0	800.0	25 DGR	98.0	0.94 V	
11.0	62.9 UA	12.0 F	301.4 UA	13.0 F	-238.55 UA	
15.0	-0.10 UA	20.0	0.68 MA	21.0	0.61 MA	
22.0 F	A999999.2 MA	1.0	-1.261 V	2.0	-1.255 V	
3.0 F	-2.182 V	4.0 F	-2.181 V	5.0 F	921.4 MV	
7.0	-5.1 MV	8.0	-1.0 MV	9.0	-1.9 MV	
10.0	-1.10 MV	70.0	45.3 UV	71.0	42.6 MV	
72.0	7.9 MV	69.0	57.04 DB	16.0	1.08 A	
17.0	-1.261 V	18.0	0.385 A	19.0 F	-2.174 V	
23.0	-1.254 V					

DEVICE	1004	BIN	32	HEAD 3	02:19 PM	07/30/2004
700.0	0	800.0	25 DGR	98.0	0.94 V	
11.0	62.9 UA	12.0 F	305.7 UA	13.0 F	-242.81 UA	
15.0	-0.08 UA	20.0	0.70 MA	21.0	0.63 MA	
22.0 F	A999999.2 MA	1.0	-1.261 V	2.0	-1.255 V	
3.0 F	-2.215 V	4.0 F	-2.212 V	5.0 F	954.5 MV	
7.0	-4.8 MV	8.0	-3.6 MV	9.0	-1.7 MV	
10.0	-1.17 MV	70.0	46.8 UV	71.0	35.4 MV	
72.0	7.2 MV	69.0	57.09 DB	16.0	1.08 A	
17.0	-1.261 V	18.0	0.386 A	19.0 F	-2.194 V	
23.0	-1.257 V					

DEVICE	1005	BIN	32	HEAD 3	02:19 PM	07/30/2004
700.0	0	800.0	25 DGR	98.0	0.94 V	
11.0	62.2 UA	12.0 F A99999926 UA		13.0 F	-9999992 UA	
15.0	-0.10 UA	20.0	0.68 MA	21.0	0.60 MA	
22.0 F A999999.2 MA		1.0	-1.258 V	2.0	-1.252 V	
3.0 F	-2.432 V	4.0 F	-2.430 V	5.0 F	1173.6 MV	
7.0	-5.6 MV	8.0	-1.5 MV	9.0	-2.2 MV	
10.0	-1.14 MV	70.0	46.0 UV	71.0	39.1 MV	
72.0	9.3 MV	69.0	57.30 DB	16.0	1.07 A	
17.0	-1.258 V	18.0	0.390 A	19.0 F	-2.435 V	
23.0	-1.252 V					

DEVICE	1005	BIN	32	HEAD 3	02:19 PM	07/30/2004
700.0	0	800.0	25 DGR	98.0	0.93 V	
11.0	62.7 UA	12.0 F A99999926 UA		13.0 F	-9999992 UA	
15.0	-0.09 UA	20.0	0.65 MA	21.0	0.60 MA	
22.0 F A999999.2 MA		1.0	-1.258 V	2.0	-1.252 V	
3.0 F A-999.999 V		4.0 F A-999.999 V		5.0 F	998741.0 MV	
7.0	-5.6 MV	8.0	0.0 MV	9.0	-2.2 MV	
10.0	-1.39 MV	70.0	45.7 UV	71.0	37.4 MV	
72.0	8.7 MV	69.0	57.23 DB	16.0	1.07 A	
17.0	-1.259 V	18.0	0.390 A	19.0 F	-2.482 V	
23.0	-1.253 V					

DEVICE	1006	BIN	32	HEAD 3	02:20 PM	07/30/2004
700.0	0	800.0	25 DGR	98.0	0.94 V	
11.0	63.6 UA	12.0 F A99999926 UA		13.0 F	-9999992 UA	
15.0	-0.09 UA	20.0	0.71 MA	21.0	0.60 MA	
22.0 F A999999.2 MA		1.0	-1.260 V	2.0	-1.254 V	
3.0 F A-999.999 V		4.0 F A-999.999 V		5.0 F	998738.8 MV	
7.0	-5.5 MV	8.0	0.0 MV	9.0	-2.2 MV	
10.0	-2.13 MV	70.0	49.6 UV	71.0	35.2 MV	
72.0	22.5 MV	69.0	57.19 DB	16.0	1.07 A	
17.0	-1.261 V	18.0	0.405 A	19.0 F A-999.999 V		
23.0	-1.256 V					

DEVICE	1006	BIN	32	HEAD 3	02:20 PM	07/30/2004
700.0	0	800.0	25 DGR	98.0	0.93 V	
11.0	64.1 UA	12.0 F A99999926 UA		13.0 F	-9999992 UA	
15.0	-0.08 UA	20.0	0.68 MA	21.0	0.61 MA	
22.0 F A999999.2 MA		1.0	-1.261 V	2.0	-1.254 V	
3.0 F A-999.999 V		4.0 F A-999.999 V		5.0 F	998738.5 MV	
7.0	-6.0 MV	8.0	0.0 MV	9.0	-2.0 MV	
10.0	-1.85 MV	70.0	49.6 UV	71.0	34.5 MV	
72.0	9.0 MV	69.0	57.13 DB	16.0	1.07 A	
17.0	-1.262 V	18.0	0.405 A	19.0 F A-999.999 V		
23.0	-1.256 V					

DEVICE	1007	BIN	32	HEAD 3	02:20 PM	07/30/2004
700.0	0	800.0	25 DGR	98.0	0.94 V	
11.0	62.5 UA	12.0 F A99999926 UA		13.0 F	-9999992 UA	
15.0	-0.10 UA	20.0	0.69 MA	21.0	0.61 MA	
22.0 F A999999.2 MA		1.0	-1.262 V	2.0	-1.254 V	
3.0 F A-999.999 V		4.0 F A-999.999 V		5.0 F	998737.1 MV	
7.0	-7.0 MV	8.0	0.0 MV	9.0	-2.6 MV	
10.0	-2.05 MV	70.0	45.7 UV	71.0	33.8 MV	
72.0	8.6 MV	69.0	57.10 DB	16.0	1.06 A	
17.0	-1.263 V	18.0	0.394 A	19.0 F A-999.999 V		
23.0	-1.256 V					

DEVICE	1007	BIN	32	HEAD 3	02:21 PM	07/30/2004
700.0	0	800.0	25 DGR	98.0	0.93 V	
11.0	62.8 UA	12.0 F A99999926 UA		13.0 F	-9999992 UA	
15.0	-0.10 UA	20.0	0.68 MA	21.0	0.61 MA	
22.0 F A999999.2 MA		1.0	-1.263 V	2.0	-1.255 V	
3.0 F A-999.999 V		4.0 F A-999.999 V		5.0 F	998736.8 MV	
7.0	-7.0 MV	8.0	0.0 MV	9.0	-2.6 MV	
10.0	-1.91 MV	70.0	47.4 UV	71.0	34.4 MV	
72.0	8.2 MV	69.0	57.04 DB	16.0	1.06 A	
17.0	-1.263 V	18.0	0.395 A	19.0 F A-999.999 V		
23.0	-1.256 V					

DEVICE	1009	BIN	32	HEAD 3	02:21 PM	07/30/2004
700.0	0	800.0	25 DGR	98.0	0.93 V	
11.0	63.7 UA	12.0 F A99999926 UA		13.0 F	-9999992 UA	
15.0	-0.10 UA	20.0	0.66 MA	21.0	0.61 MA	
22.0 F A999999.2 MA		1.0	-1.262 V	2.0	-1.256 V	
3.0 F A-999.999 V		4.0 F A-999.999 V		5.0 F	998737.1 MV	
7.0	-5.2 MV	8.0	0.0 MV	9.0	-1.9 MV	
10.0	-1.49 MV	70.0	51.7 UV	71.0	38.4 MV	
72.0	7.5 MV	69.0	57.28 DB	16.0	1.07 A	
17.0	-1.263 V	18.0	0.397 A	19.0 F A-999.999 V		
23.0	-1.258 V					

DEVICE	1009	BIN	32	HEAD 3	02:21 PM	07/30/2004
700.0	0	800.0	25 DGR	98.0	0.92 V	
11.0	64.3 UA	12.0 F A99999926 UA		13.0 F	-9999992 UA	
15.0	-0.09 UA	20.0	0.66 MA	21.0	0.60 MA	
22.0 F A999999.2 MA		1.0	-1.263 V	2.0	-1.257 V	
3.0 F A-999.999 V		4.0 F A-999.999 V		5.0 F	998736.6 MV	
7.0	-5.1 MV	8.0	0.0 MV	9.0	-1.9 MV	
10.0	-1.66 MV	70.0	54.7 UV	71.0	37.1 MV	
72.0	7.1 MV	69.0	57.21 DB	16.0	1.07 A	
17.0	-1.263 V	18.0	0.397 A	19.0 F A-999.999 V		
23.0	-1.259 V					

DEVICE	1010	BIN	32	HEAD 3	02:22 PM	07/30/2004
700.0	0	800.0	25 DGR	98.0	0.91 V	
11.0	66.4 UA	12.0 F A99999926	UA	13.0 F	-9999992 UA	
15.0	-0.06 UA	20.0	0.67 MA	21.0	0.61 MA	
22.0 F A999999.2	MA	1.0	-1.260 V	2.0	-1.253 V	
3.0 F A-999.999	V	4.0 F A-999.999	V	5.0 F	998739.3 MV	
7.0	-5.6 MV	8.0	0.0 MV	9.0	-2.0 MV	
10.0	-1.46 MV	70.0	64.0 UV	71.0	46.9 MV	
72.0	11.3 MV	69.0	57.17 DB	16.0	1.09 A	
17.0	-1.261 V	18.0	0.422 A	19.0 F A-999.999	V	
23.0	-1.256 V					

DEVICE	1010	BIN	32	HEAD 3	02:22 PM	07/30/2004
700.0	0	800.0	25 DGR	98.0	0.88 V	
11.0	67.4 UA	12.0 F A99999926	UA	13.0 F	-9999992 UA	
15.0	-0.08 UA	20.0	0.67 MA	21.0	0.60 MA	
22.0 F A999999.2	MA	1.0	-1.261 V	2.0	-1.254 V	
3.0 F A-999.999	V	4.0 F A-999.999	V	5.0 F	998738.5 MV	
7.0	-6.0 MV	8.0	0.0 MV	9.0	-2.1 MV	
10.0	-1.54 MV	70.0	66.3 UV	71.0	48.2 MV	
72.0	8.8 MV	69.0	57.10 DB	16.0	1.09 A	
17.0	-1.261 V	18.0	0.421 A	19.0 F A-999.999	V	
23.0	-1.257 V					

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DEVICE	1002	BIN	1	HEAD 3	02:46 PM	07/30/2004
700.0	0	800.0	25 DGR	98.0	0.92 V	
11.0	62.7 UA	12.0	64.3 UA	13.0	-1.61 UA	
15.0	-0.08 UA	20.0	0.72 MA	21.0	0.62 MA	
22.0	1.93 MA	1.0	-1.257 V	2.0	-1.252 V	
3.0	-1.259 V	4.0	-1.255 V	5.0	1.6 MV	
7.0	-4.5 MV	8.0	-4.2 MV	9.0	-1.5 MV	
10.0	-1.03 MV	70.0	40.3 UV	71.0	51.4 MV	
72.0	8.4 MV	69.0	56.85 DB	16.0	1.06 A	
17.0	-1.257 V	18.0	0.319 A	19.0	-1.259 V	
23.0	-1.250 V					

DEVICE	1003	BIN	1	HEAD 3	02:46 PM	07/30/2004
700.0	0	800.0	25 DGR	98.0	0.92 V	
11.0	63.6 UA	12.0	65.3 UA	13.0	-1.69 UA	
15.0	-0.11 UA	20.0	0.72 MA	21.0	0.63 MA	
22.0	1.63 MA	1.0	-1.264 V	2.0	-1.257 V	
3.0	-1.265 V	4.0	-1.261 V	5.0	1.5 MV	
7.0	-5.4 MV	8.0	-4.2 MV	9.0	-1.9 MV	
10.0	-1.09 MV	70.0	40.2 UV	71.0	48.1 MV	
72.0	8.4 MV	69.0	56.63 DB	16.0	1.06 A	
17.0	-1.264 V	18.0	0.316 A	19.0	-1.266 V	
23.0	-1.258 V					

DEVICE	1004	BIN	32	HEAD 3	02:46 PM	07/30/2004
700.0	0	800.0	25 DGR	98.0	0.88 V	
11.0 F	113.2 UA	12.0 F	A99999926 UA	13.0 F	-9999992 UA	
15.0	-0.07 UA	20.0	0.69 MA	21.0 F	A999999.2 MA	
22.0 F	A999999.2 MA	1.0	-1.271 V	2.0	-1.264 V	
3.0 F	A-999.999 V	4.0 F	A-999.999 V	5.0 F	998728.3 MV	
7.0	-5.8 MV	8.0	0.0 MV	9.0	-2.0 MV	
10.0 F	-24.93 MV	70.0	88.0 UV	71.0 F	93.4 MV	
72.0	9.3 MV	69.0	55.55 DB	16.0	1.08 A	
17.0	-1.273 V	18.0	0.450 A	19.0 F	A-999.999 V	
23.0	-1.274 V					

DEVICE	1004	BIN	32	HEAD 3	02:46 PM	07/30/2004
700.0	0	800.0	25 DGR	98.0	0.87 V	
11.0 F	117.5 UA	12.0 F	A99999926 UA	13.0 F	-9999992 UA	
15.0	-0.07 UA	20.0	0.69 MA	21.0 F	A999999.2 MA	
22.0 F	A999999.2 MA	1.0	-1.272 V	2.0	-1.265 V	
3.0 F	A-999.999 V	4.0 F	A-999.999 V	5.0 F	998727.5 MV	
7.0	-5.4 MV	8.0	0.0 MV	9.0	-2.2 MV	
10.0 F	-24.81 MV	70.0	87.8 UV	71.0 F	91.1 MV	
72.0	9.3 MV	69.0	55.35 DB	16.0	1.08 A	
17.0	-1.273 V	18.0	0.451 A	19.0 F	A-999.999 V	
23.0	-1.273 V					

DEVICE	1005	BIN	32	HEAD 3	02:47 PM	07/30/2004
700.0	0	800.0	25 DGR	98.0	0.88 V	
11.0 F	103.6 UA	12.0 F	A99999926 UA	13.0 F	-9999992 UA	
15.0	-0.10 UA	20.0	0.69 MA	21.0 F	A999999.2 MA	
22.0 F	A999999.2 MA	1.0	-1.272 V	2.0	-1.265 V	
3.0 F	A-999.999 V	4.0 F	A-999.999 V	5.0 F	998727.1 MV	
7.0	-5.8 MV	8.0	0.0 MV	9.0	-2.2 MV	
10.0 F	-23.99 MV	70.0	86.4 UV	71.0	59.2 MV	
72.0	9.2 MV	69.0	55.99 DB	16.0	1.08 A	
17.0	-1.274 V	18.0	0.468 A	19.0 F	A-999.999 V	
23.0	-1.263 V					

DEVICE	1005	BIN	32	HEAD 3	02:47 PM	07/30/2004
700.0	0	800.0	25 DGR	98.0	0.87 V	
11.0 F	107.6 UA	12.0 F	A99999926 UA	13.0 F	-9999992 UA	
15.0	-0.07 UA	20.0	0.61 MA	21.0 F	A999999.2 MA	
22.0 F	A999999.2 MA	1.0	-1.273 V	2.0	-1.265 V	
3.0 F	A-999.999 V	4.0 F	A-999.999 V	5.0 F	998726.3 MV	
7.0	-7.1 MV	8.0	0.0 MV	9.0	-2.5 MV	
10.0 F	-23.95 MV	70.0	90.4 UV	71.0	67.8 MV	
72.0	9.5 MV	69.0	55.79 DB	16.0	1.08 A	
17.0	-1.274 V	18.0	0.468 A	19.0 F	A-999.999 V	
23.0	-1.267 V					

DEVICE	1006	BIN	32	HEAD 3	02:47 PM	07/30/2004
700.0	0	800.0	25 DGR	98.0	0.88 V	
11.0	76.1 UA	12.0 F	A99999926 UA	13.0 F	-9999992 UA	
15.0	-0.06 UA	20.0	0.66 MA	21.0	0.62 MA	
22.0 F	A999999.2 MA	1.0	-1.269 V	2.0	-1.262 V	
3.0 F	A-999.999 V	4.0 F	A-999.999 V	5.0 F	998730.5 MV	
7.0	-5.6 MV	8.0	0.0 MV	9.0	-2.0 MV	
10.0	-2.11 MV	70.0	78.4 UV	71.0	56.3 MV	
72.0	7.7 MV	69.0	56.87 DB	16.0	1.08 A	
17.0	-1.271 V	18.0	0.454 A	19.0 F	A-999.999 V	
23.0	-1.236 V					

DEVICE	1006	BIN	32	HEAD 3	02:47 PM	07/30/2004
700.0	0	800.0	25 DGR	98.0	0.87 V	
11.0	79.2 UA	12.0 F	A99999926 UA	13.0 F	-9999992 UA	
15.0	-0.09 UA	20.0	0.68 MA	21.0	0.61 MA	
22.0 F	A999999.2 MA	1.0	-1.270 V	2.0	-1.264 V	
3.0 F	A-999.999 V	4.0 F	A-999.999 V	5.0 F	998728.8 MV	
7.0	-5.9 MV	8.0	0.0 MV	9.0	-2.1 MV	
10.0	-2.36 MV	70.0	83.0 UV	71.0	55.3 MV	
72.0	8.6 MV	69.0	56.76 DB	16.0	1.08 A	
17.0	-1.272 V	18.0	0.455 A	19.0 F	A-999.999 V	
23.0	-1.231 V					

DEVICE	1007	BIN	32	HEAD 3	02:48 PM	07/30/2004
700.0	0	800.0	25 DGR	98.0	0.87 V	
11.0	67.9 UA	12.0 F A99999926 UA		13.0 F	-9999992 UA	
15.0	-0.10 UA	20.0	0.67 MA	21.0	0.61 MA	
22.0 F A999999.2 MA		1.0	-1.268 V	2.0	-1.262 V	
3.0 F A-999.999 V		4.0 F A-999.999 V		5.0 F	998731.4 MV	
7.0	-4.6 MV	8.0	0.0 MV	9.0	-1.8 MV	
10.0	-1.93 MV	70.0	64.0 UV	71.0	47.0 MV	
72.0	6.7 MV	69.0	57.00 DB	16.0	1.06 A	
17.0	-1.269 V	18.0	0.427 A	19.0 F A-999.999 V		
23.0	-1.267 V					

DEVICE	1007	BIN	32	HEAD 3	02:48 PM	07/30/2004
700.0	0	800.0	25 DGR	98.0	0.87 V	
11.0	69.4 UA	12.0 F A99999926 UA		13.0 F	-9999992 UA	
15.0	-0.08 UA	20.0	0.65 MA	21.0	0.62 MA	
22.0 F A999999.2 MA		1.0	-1.269 V	2.0	-1.263 V	
3.0 F A-999.999 V		4.0 F A-999.999 V		5.0 F	998730.7 MV	
7.0	-4.2 MV	8.0	0.0 MV	9.0	-1.6 MV	
10.0	-2.31 MV	70.0	66.8 UV	71.0	46.1 MV	
72.0	7.3 MV	69.0	56.91 DB	16.0	1.06 A	
17.0	-1.270 V	18.0	0.428 A	19.0 F A-999.999 V		
23.0	-1.268 V					

DEVICE	1009	BIN	32	HEAD 3	02:48 PM	07/30/2004
700.0	0	800.0	25 DGR	98.0	0.88 V	
11.0	70.9 UA	12.0 F A99999926 UA		13.0 F	-9999992 UA	
15.0	-0.08 UA	20.0	0.68 MA	21.0	0.61 MA	
22.0 F A999999.2 MA		1.0	-1.272 V	2.0	-1.267 V	
3.0 F A-999.999 V		4.0 F A-999.999 V		5.0 F	998727.1 MV	
7.0	-4.0 MV	8.0	0.0 MV	9.0	-1.4 MV	
10.0	-0.81 MV	70.0	68.8 UV	71.0	54.8 MV	
72.0	9.3 MV	69.0	57.10 DB	16.0	1.07 A	
17.0	-1.274 V	18.0	0.425 A	19.0 F A-999.999 V		
23.0	-1.235 V					

DEVICE	1009	BIN	32	HEAD 3	02:48 PM	07/30/2004
700.0	0	800.0	25 DGR	98.0	0.87 V	
11.0	73.3 UA	12.0 F A99999926 UA		13.0 F	-9999992 UA	
15.0	-0.08 UA	20.0	0.66 MA	21.0	0.61 MA	
22.0 F A999999.2 MA		1.0	-1.273 V	2.0	-1.265 V	
3.0 F A-999.999 V		4.0 F A-999.999 V		5.0 F	998726.1 MV	
7.0	-7.4 MV	8.0	0.0 MV	9.0	-2.8 MV	
10.0	-2.07 MV	70.0	70.6 UV	71.0	52.8 MV	
72.0	7.9 MV	69.0	57.05 DB	16.0	1.07 A	
17.0	-1.274 V	18.0	0.426 A	19.0 F A-999.999 V		
23.0	-1.231 V					

DEVICE	1010	BIN	32	HEAD 3	02:49 PM	07/30/2004
700.0	0	800.0	25 DGR	98.0	0.88 V	
11.0	83.0 UA	12.0 F A99999926 UA		13.0 F -9999992 UA		
15.0	-0.08 UA	20.0 0.68 MA		21.0 0.62 MA		
22.0 F A999999.2 MA		1.0 -1.264 V		2.0 -1.255 V		
3.0 F A-999.999 V		4.0 F A-999.999 V		5.0 F 998735.6 MV		
7.0 -7.4 MV		8.0 0.0 MV		9.0 -2.9 MV		
10.0 -2.59 MV		70.0 81.2 UV		71.0 73.5 MV		
72.0 8.3 MV		69.0 56.58 DB		16.0 1.09 A		
17.0 -1.265 V		18.0 0.453 A		19.0 F A-999.999 V		
23.0 F -1.225 V						

DEVICE	1010	BIN	32	HEAD 3	02:49 PM	07/30/2004
700.0	0	800.0	25 DGR	98.0	0.88 V	
11.0	86.7 UA	12.0 F A99999926 UA		13.0 F -9999992 UA		
15.0	-0.07 UA	20.0 0.69 MA		21.0 0.64 MA		
22.0 F A999999.2 MA		1.0 -1.264 V		2.0 -1.256 V		
3.0 F A-999.999 V		4.0 F A-999.999 V		5.0 F 998734.9 MV		
7.0 -7.1 MV		8.0 0.0 MV		9.0 -2.7 MV		
10.0 F -19.83 MV		70.0 87.9 UV		71.0 71.4 MV		
72.0 9.0 MV		69.0 56.44 DB		16.0 1.09 A		
17.0 -1.265 V		18.0 0.454 A		19.0 F A-999.999 V		
23.0 -1.235 V						